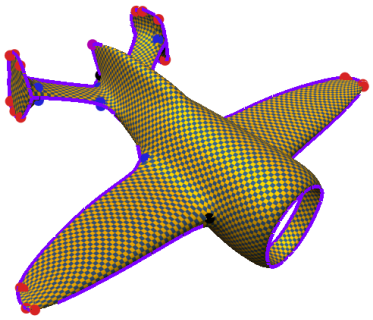
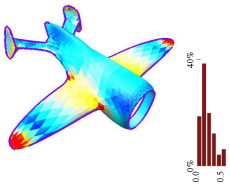
Name	Source	Faces	Genus	Cones
aircraft	unknown	4656	0	41



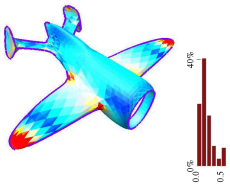
RGP Parametrization
TFaces:126

MIQ + Stiffening



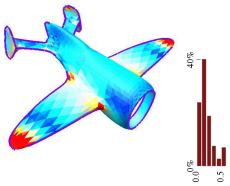
Dist:0.2726 Flips:0

MIQ + IGM



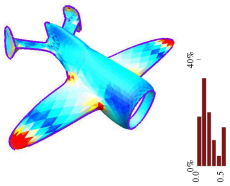
Dist:0.261 Flips:0

MIQ + BD



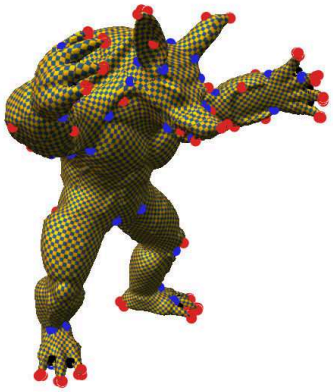
Dist:0.261 Flips:0

RGP



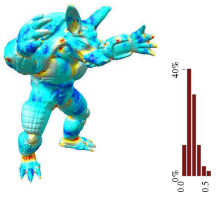
Dist:0.256 Flips:0

Name	Source	Faces	Genus	Cones
armadillo	Aim@Shape	43160	0	137



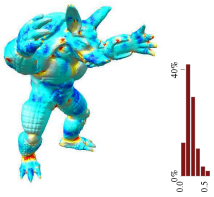
RGP Parametrization
TFaces:405

MIQ + Stiffening



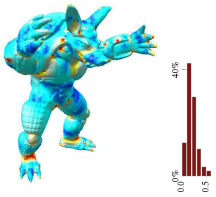
Dist:0.2362 Flips:0

MIQ + IGM



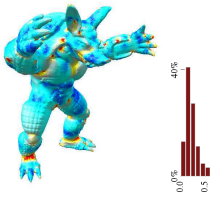
Dist:0.233 Flips:0

MIQ + BD



Dist:0.232 Flips:0

RGP

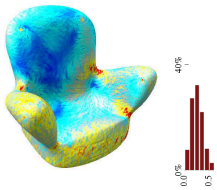


Dist:0.231 Flips:0

Name	Source	Faces	Genus	Cones
armchair	Aim@Shape	100000	0	20

RGP Parametrization
TFaces:54

MIQ + Stiffening



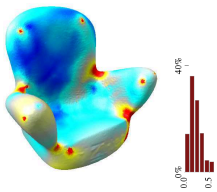
Dist:0.2745 Flips:1

MIQ + IGM

Solver Fail

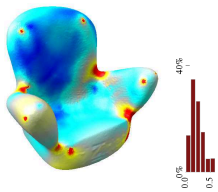
Dist: - Flips: -

MIQ + BD



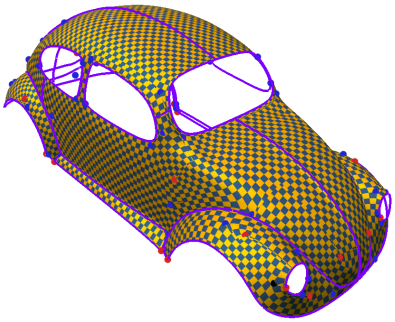
Dist:0.255 Flips:0

RGP



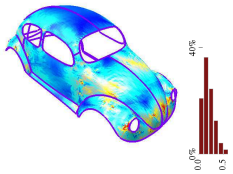
Dist:0.255 Flips:0

Name	Source	Faces	Genus	Cones
beetle	unknown	38726	0	73



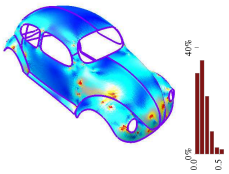
RGP Parametrization
TFaces:270 After Collapse:263

MIQ + Stiffening



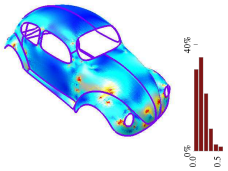
Dist:0.1941 Flips:4

MIQ + IGM



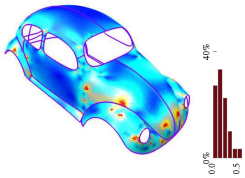
Dist:0.175 Flips:0

MIQ + BD



Dist:0.174 Flips:0

RGP

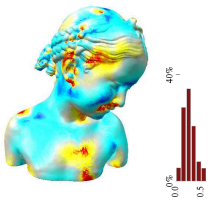


Dist:0.172 Flips:0

Name	Source	Faces	Genus	Cones
bimba	Aim@Shape	100000	0	99

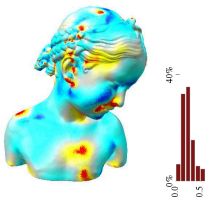
RGP Parametrization
TFaces:291

MIQ + Stiffening



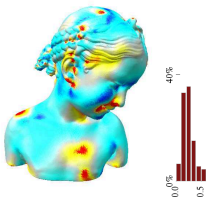
Dist:0.2822 Flips:0

MIQ + IGM



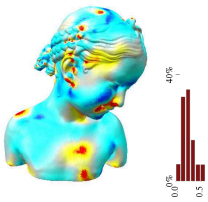
Dist:0.275 Flips:0

MIQ + BD



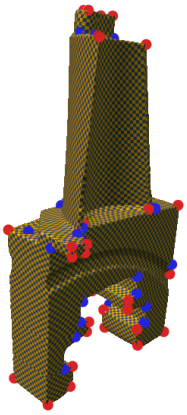
Dist:0.274 Flips:0

RGP



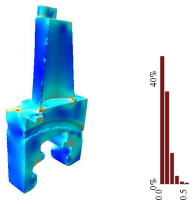
Dist:0.273 Flips:0

Name	Source	Faces	Genus	Cones
blade	Aim@Shape	58546	0	70



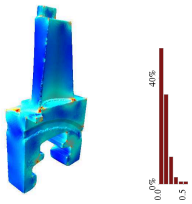
RGP Parametrization
TFaces:204

MIQ + Stiffening



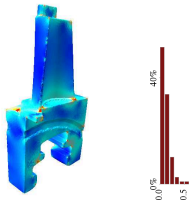
Dist:0.1315 Flips:0

MIQ + IGM



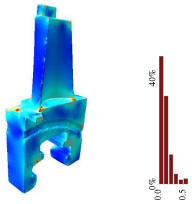
Dist:0.13 Flips:0

MIQ + BD



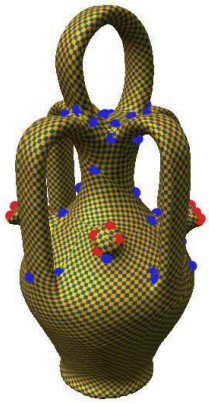
Dist:0.13 Flips:0

RGP



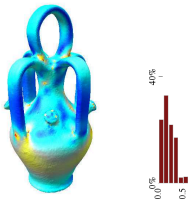
Dist:0.129 Flips:0

Name	Source	Faces	Genus	Cones
botijo	unknown	82332	5	70



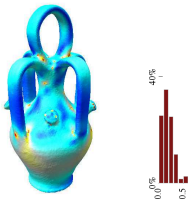
RGP Parametrization
TFaces:234 After Collapse:232

MIQ + Stiffening



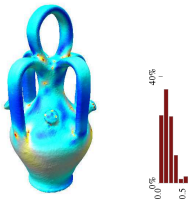
Dist:0.2455 Flips:0

MIQ + IGM



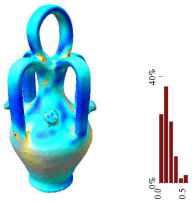
Dist:0.239 Flips:0

MIQ + BD



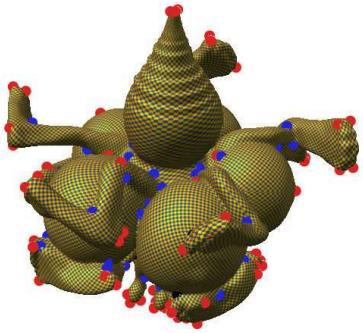
Dist:0.238 Flips:0

RGP



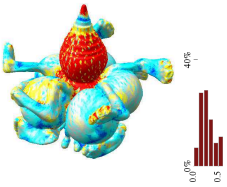
Dist:0.238 Flips:0

Name	Source	Faces	Genus	Cones
bozbezbozzel	Aim@Shape	100000	5	305



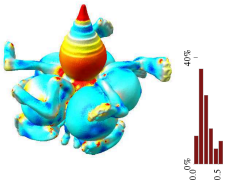
RGP Parametrization
TFaces:939 After Collapse:938

MIQ + Stiffening



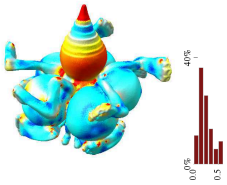
Dist:0.3343 Flips:8

MIQ + IGM



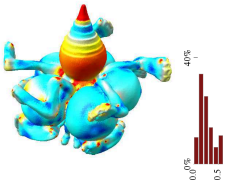
Dist:0.298 Flips:0

MIQ + BD



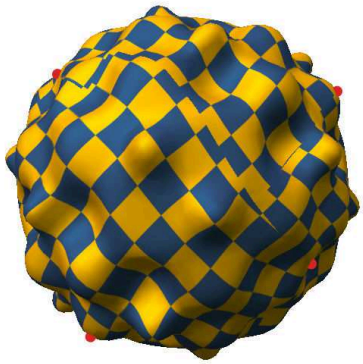
Dist:0.296 Flips:0

RGP



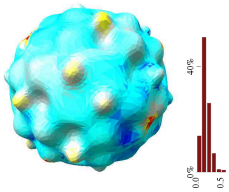
Dist:0.295 Flips:0

Name	Source	Faces	Genus	Cones
bumpy sphere	Aim@Shape	11444	0	10



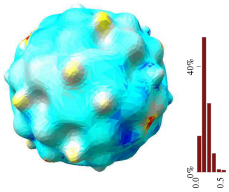
RGP Parametrization
TFaces:24

MIQ + Stiffening



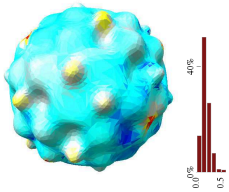
Dist:0.2005 Flips:0

MIQ + IGM



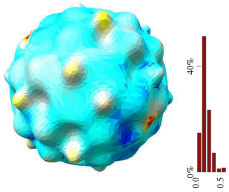
Dist:0.2 Flips:0

MIQ + BD



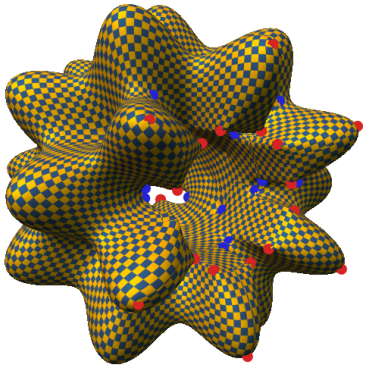
Dist:0.2 Flips:0

RGP



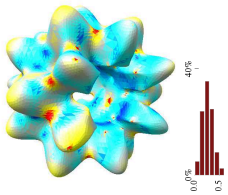
Dist:0.2 Flips:0

Name	Source	Faces	Genus	Cones
bumpy torus	Aim@Shape	33630	1	69



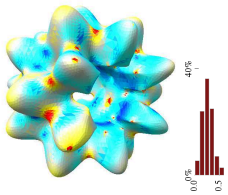
RGP Parametrization
TFaces:207

MIQ + Stiffening



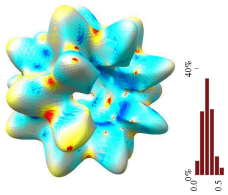
Dist:0.2698 Flips:0

MIQ + IGM



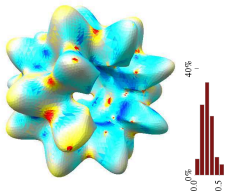
Dist:0.269 Flips:0

MIQ + BD



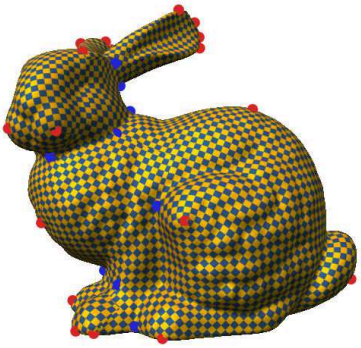
Dist:0.269 Flips:0

RGP



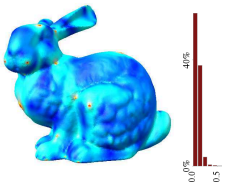
Dist:0.268 Flips:0

Name	Source	Faces	Genus	Cones
bunny	Aim@Shape	111364	0	44



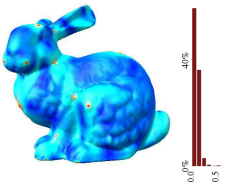
RGP Parametrization
TFaces:126

MIQ + Stiffening



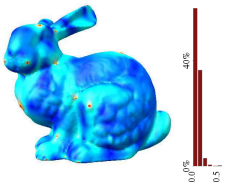
Dist:0.116 Flips:0

MIQ + IGM



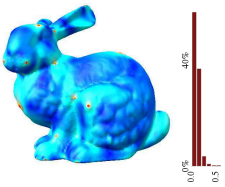
Dist:0.115 Flips:0

MIQ + BD



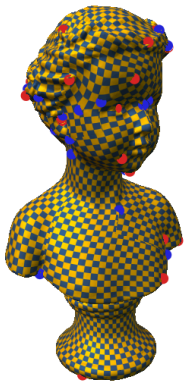
Dist:0.115 Flips:0

RGP



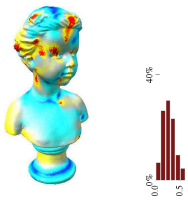
Dist:0.115 Flips:0

Name	Source	Faces	Genus	Cones
buste	Aim@Shape	100000	0	71



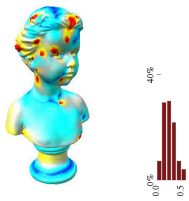
RGP Parametrization
TFaces:207

MIQ + Stiffening



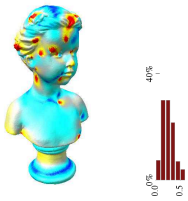
Dist:0.2882 Flips:0

MIQ + IGM



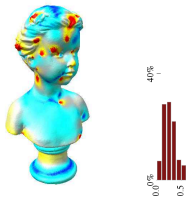
Dist:0.284 Flips:0

MIQ + BD



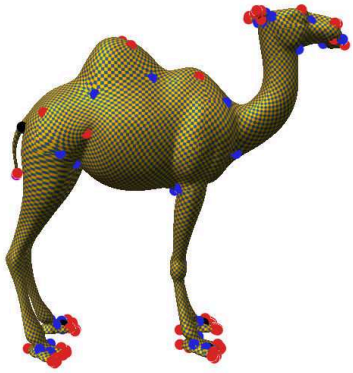
Dist:0.283 Flips:0

RGP



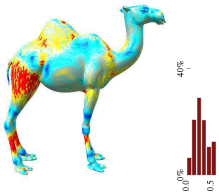
Dist:0.283 Flips:0

Name	Source	Faces	Genus	Cones
camel	Aim@Shape	69092	1	121



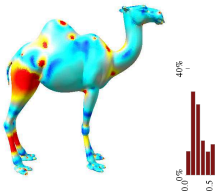
RGP Parametrization
TFaces:363 After Collapse:361

MIQ + Stiffening



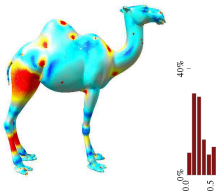
Dist:0.3462 Flips:6

MIQ + IGM



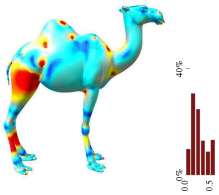
Dist:0.324 Flips:0

MIQ + BD



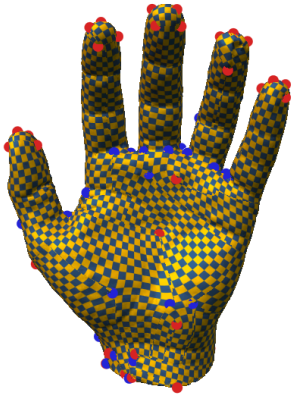
Dist:0.345 Flips:48

RGP



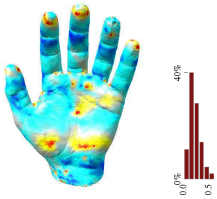
Dist:0.321 Flips:0

Name	Source	Faces	Genus	Cones
camille hand	Aim@Shape	100000	0	72



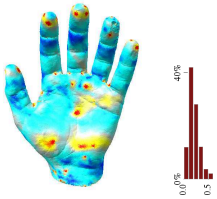
RGP Parametrization
TFaces:210

MIQ + Stiffening



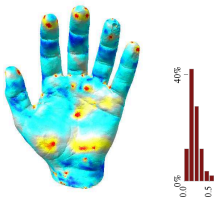
Dist:0.2411 Flips:0

MIQ + IGM



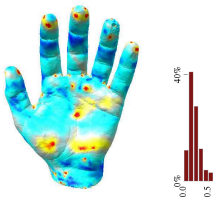
Dist:0.238 Flips:0

MIQ + BD



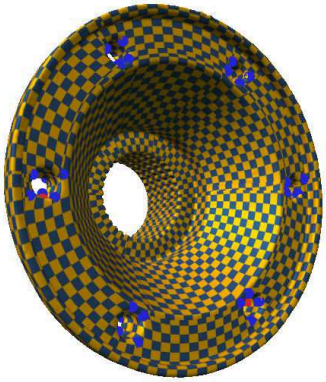
Dist:0.238 Flips:0

RGP



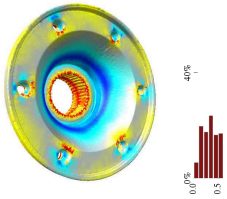
Dist:0.237 Flips:0

Name	Source	Faces	Genus	Cones
carter	Aim@Shape	100000	7	64



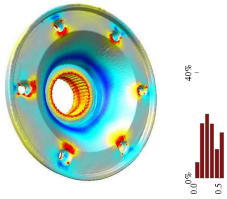
RGP Parametrization
TFaces:228

MIQ + Stiffening



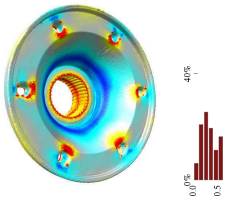
Dist:0.3381 Flips:0

MIQ + IGM



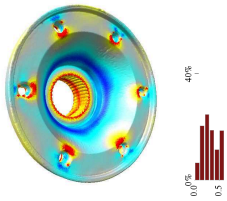
Dist:0.328 Flips:0

MIQ + BD



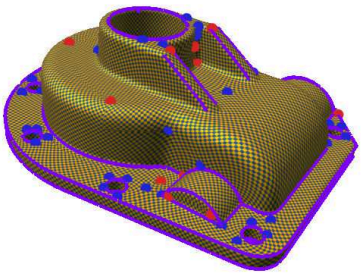
Dist:0.325 Flips:0

RGP



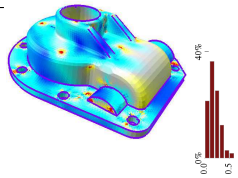
Dist:0.325 Flips:0

Name	Source	Faces	Genus	Cones
casting	unknown	36852	9	119



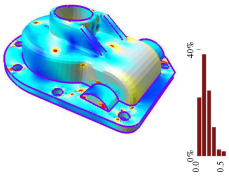
RGP Parametrization
TFaces:397 After Collapse:397

MIQ + Stiffening



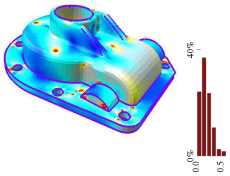
Dist:0.2164 Flips:0

MIQ + IGM



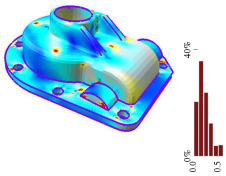
Dist:0.214 Flips:0

MIQ + BD



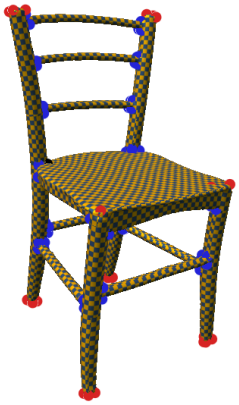
Dist:0.213 Flips:0

RGP



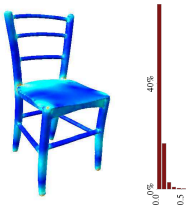
Dist:0.211 Flips:0

Name	Source	Faces	Genus	Cones
chair	Aim@Shape	100000	7	98



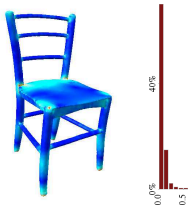
RGP Parametrization
TFaces:330 After Collapse:330

MIQ + Stiffening



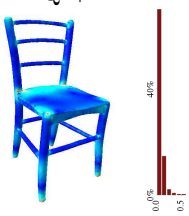
Dist:0.0912 Flips:0

MIQ + IGM



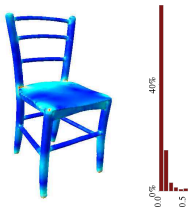
Dist:0.089 Flips:0

MIQ + BD



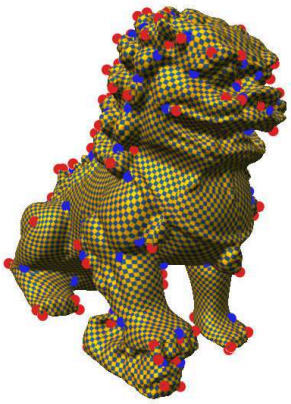
Dist:0.089 Flips:0

RGP



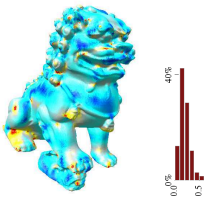
Dist:0.088 Flips:0

Name	Source	Faces	Genus	Cones
chinese lion	Aim@Shape	100000	0	227



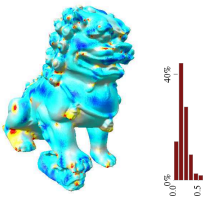
RGP Parametrization
TFaces:687

MIQ + Stiffening



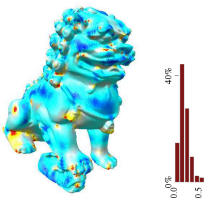
Dist:0.2224 Flips:0

MIQ + IGM



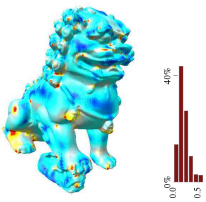
Dist:0.219 Flips:0

MIQ + BD



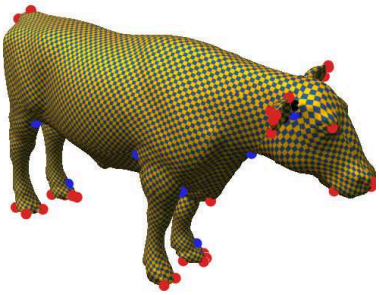
Dist:0.219 Flips:0

RGP



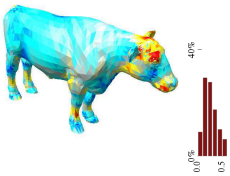
Dist:0.218 Flips:0

Name	Source	Faces	Genus	Cones
cow2	Aim@Shape	8626	0	59



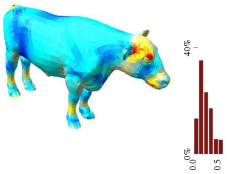
RGP Parametrization
TFaces:171

MIQ + Stiffening



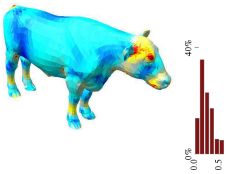
Dist:0.2436 Flips:1

MIQ + IGM



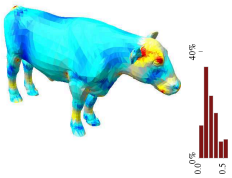
Dist:0.218 Flips:0

MIQ + BD



Dist:0.217 Flips:0

RGP

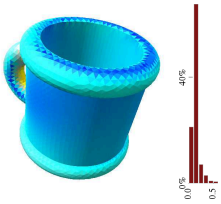


Dist:0.215 Flips:0

Name	Source	Faces	Genus	Cones
cup	Aim@Shape	11340	2	7

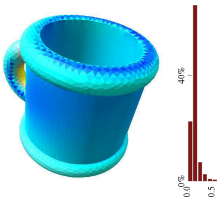
RGP Parametrization
TFaces:27 After Collapse:19

MIQ + Stiffening



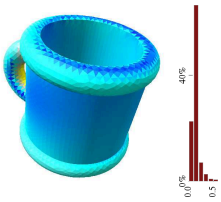
Dist:0.1548 Flips:0

MIQ + IGM



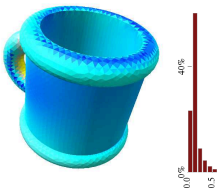
Dist:0.154 Flips:0

MIQ + BD



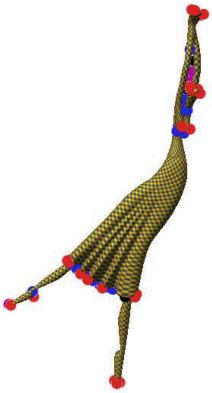
Dist:0.154 Flips:0

RGP



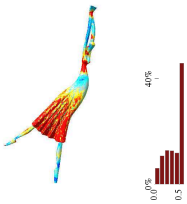
Dist:0.153 Flips:0

Name	Source	Faces	Genus	Cones
dancer2	Aim@Shape	18292	1	53



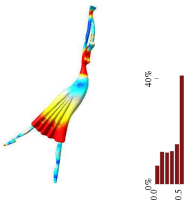
RGP Parametrization
TFaces:159 After Collapse:161 Inserted cones:4

MIQ + Stiffening



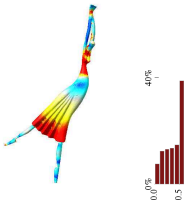
Dist:0.5258 Flips:9

MIQ + IGM



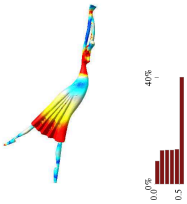
Dist:0.493 Flips:0

MIQ + BD



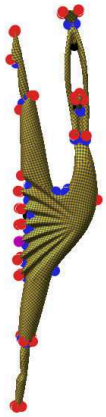
Dist:0.485 Flips:0

RGP



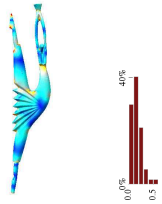
Dist:0.488 Flips:0

Name	Source	Faces	Genus	Cones
dancer	Aim@Shape	49996	1	87



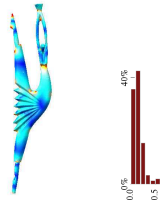
RGP Parametrization
TFaces:261 After Collapse:260

MIQ + Stiffening



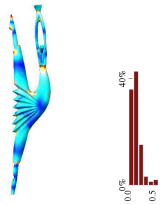
Dist:0.1955 Flips:0

MIQ + IGM



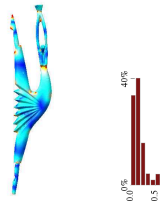
Dist:0.187 Flips:0

MIQ + BD



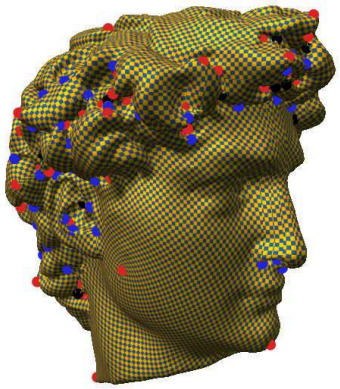
Dist:0.185 Flips:0

RGP



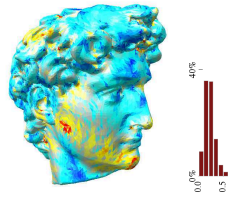
Dist:0.183 Flips:0

Name	Source	Faces	Genus	Cones
david	unknown	50864	0	186



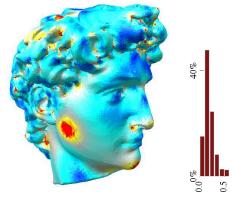
RGP Parametrization
TFaces:552

MIQ + Stiffening



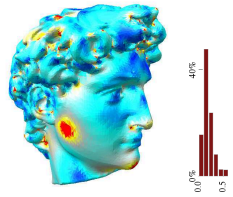
Dist:0.2426 Flips:1

MIQ + IGM



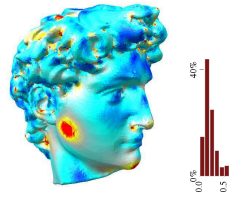
Dist:0.22 Flips:0

MIQ + BD



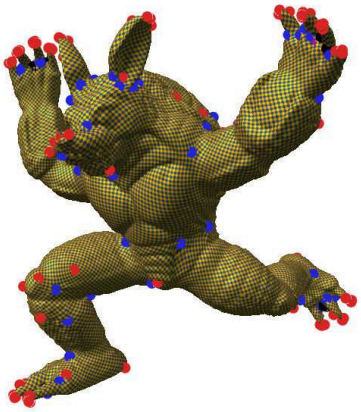
Dist:0.219 Flips:0

RGP



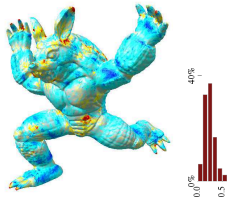
Dist:0.217 Flips:0

Name	Source	Faces	Genus	Cones
deformed armadillo	unknown	100000	0	179



RGP Parametrization
TFaces:531 After Collapse:524

MIQ + Stiffening



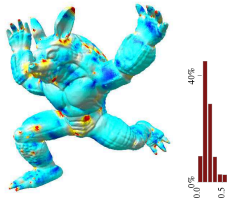
Dist:0.2568 Flips:24

MIQ + IGM

Solver Fail

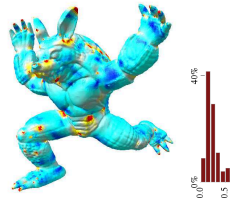
Dist: - Flips: -

MIQ + BD



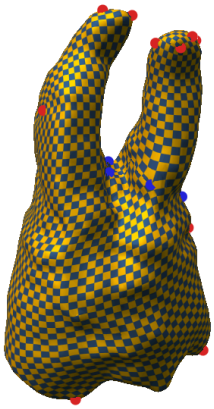
Dist:0.235 Flips:9

RGP



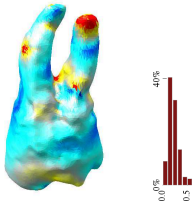
Dist:0.233 Flips:0

Name	Source	Faces	Genus	Cones
dente	Aim@Shape	18670	0	26



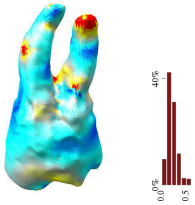
RGP Parametrization
TFaces:72

MIQ + Stiffening



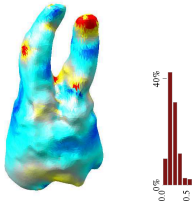
Dist:0.2445 Flips:0

MIQ + IGM



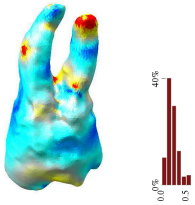
Dist:0.243 Flips:0

MIQ + BD



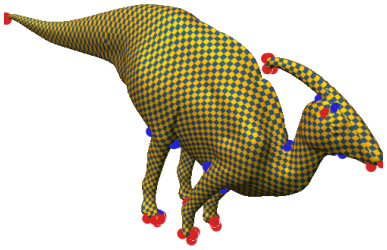
Dist:0.242 Flips:0

RGP



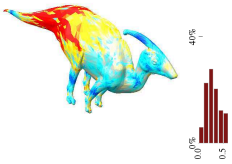
Dist:0.241 Flips:0

Name	Source	Faces	Genus	Cones
dilo	Aim@Shape	54344	0	62



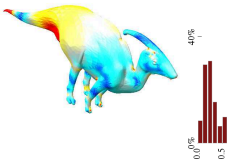
RGP Parametrization
TFaces:180

MIQ + Stiffening



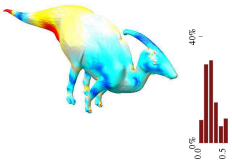
Dist:0.429 Flips:5

MIQ + IGM



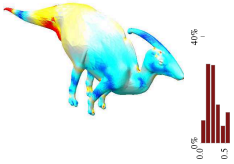
Dist:0.388 Flips:0

MIQ + BD



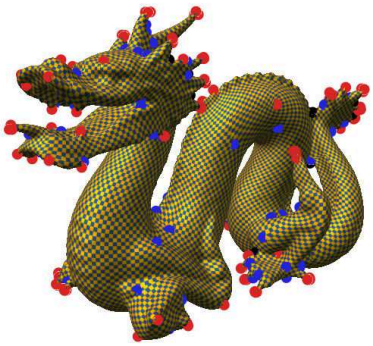
Dist:0.381 Flips:0

RGP



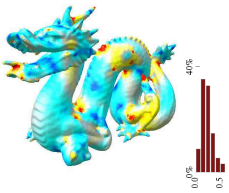
Dist:0.38 Flips:0

Name	Source	Faces	Genus	Cones
dragonstand	Stanford (Poisson)	104358	1	233



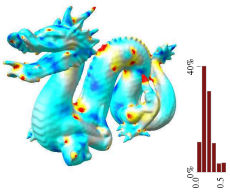
RGP Parametrization
TFaces:699

MIQ + Stiffening



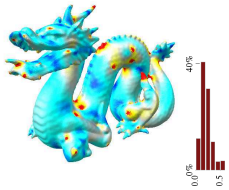
Dist:0.2574 Flips:0

MIQ + IGM



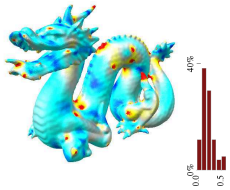
Dist:0.248 Flips:0

MIQ + BD



Dist:0.247 Flips:0

RGP

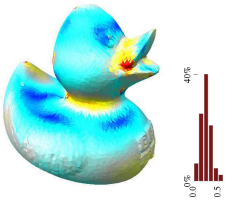


Dist:0.246 Flips:0

Name	Source	Faces	Genus	Cones
duck	Aim@Shape	19276	0	24

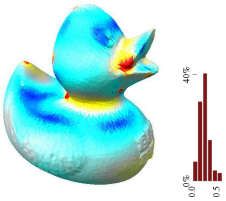
RGP Parametrization
TFaces:66

MIQ + Stiffening



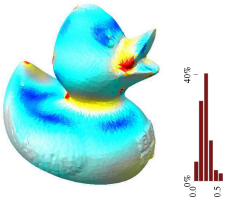
Dist:0.2613 Flips:0

MIQ + IGM



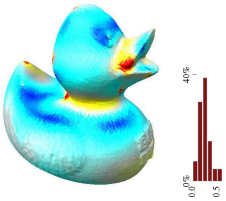
Dist:0.258 Flips:0

MIQ + BD



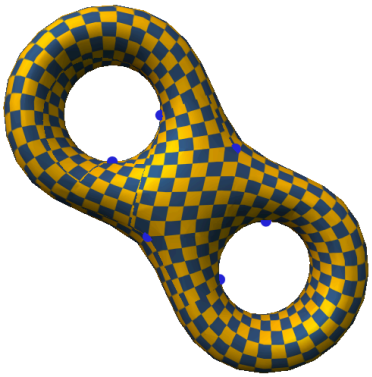
Dist:0.258 Flips:0

RGP



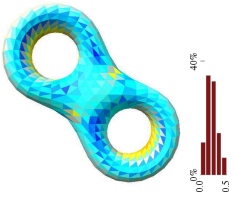
Dist:0.256 Flips:0

Name	Source	Faces	Genus	Cones
eight	Aim@Shape	1536	2	8



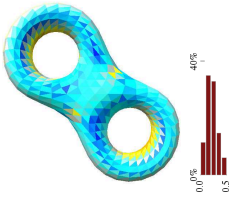
RGP Parametrization
TFaces:30

MIQ + Stiffening



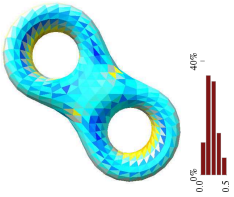
Dist:0.2398 Flips:0

MIQ + IGM



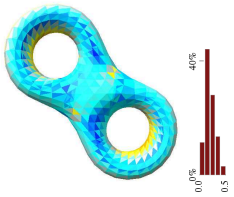
Dist:0.24 Flips:0

MIQ + BD



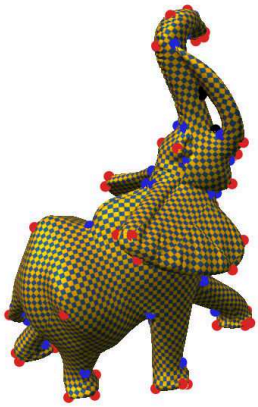
Dist:0.24 Flips:0

RGP



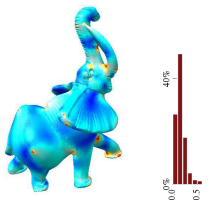
Dist:0.237 Flips:0

Name	Source	Faces	Genus	Cones
elephant	unknown	49918	3	118



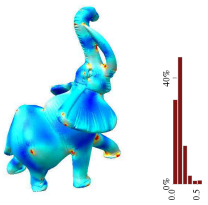
RGP Parametrization
TFaces:366

MIQ + Stiffening



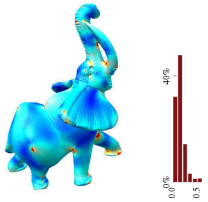
Dist:0.1719 Flips:0

MIQ + IGM



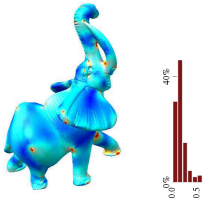
Dist:0.167 Flips:0

MIQ + BD



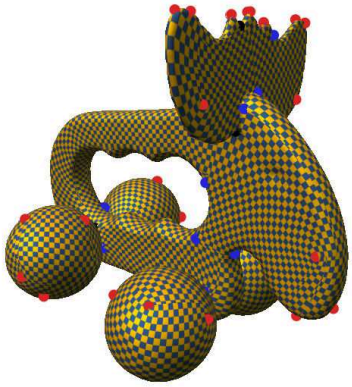
Dist:0.166 Flips:0

RGP



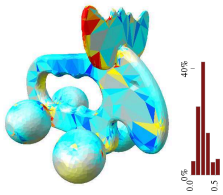
Dist:0.164 Flips:0

Name	Source	Faces	Genus	Cones
elk	Aim@Shape	10388	1	67



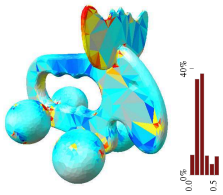
RGP Parametrization
TFaces:201

MIQ + Stiffening



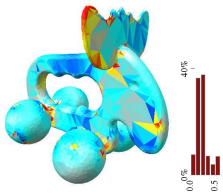
Dist:0.2572 Flips:0

MIQ + IGM



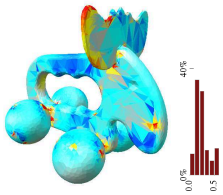
Dist:0.248 Flips:0

MIQ + BD



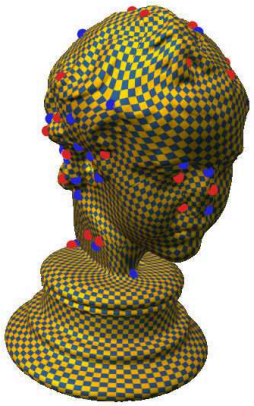
Dist:0.247 Flips:0

RGP



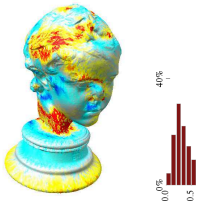
Dist:0.239 Flips:0

Name	Source	Faces	Genus	Cones
eros	Aim@Shape	100000	0	102



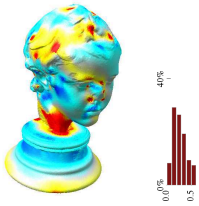
RGP Parametrization
TFaces:300

MIQ + Stiffening



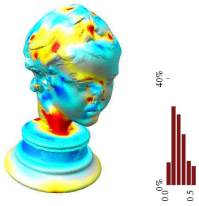
Dist:0.3357 Flips:0

MIQ + IGM



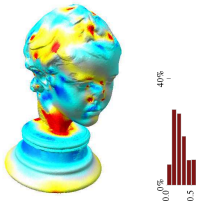
Dist:0.313 Flips:0

MIQ + BD



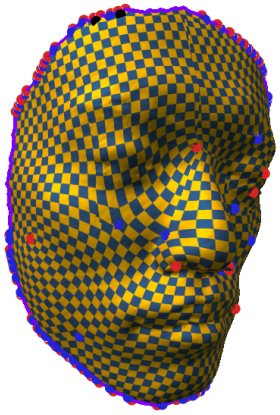
Dist:0.31 Flips:0

RGP



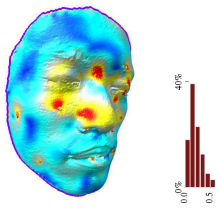
Dist:0.31 Flips:0

Name	Source	Faces	Genus	Cones
face-YO	Aim@Shape	27150	0	23



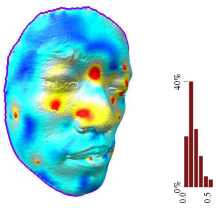
RGP Parametrization
TFaces:203

MIQ + Stiffening



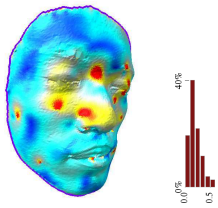
Dist:0.2433 Flips:0

MIQ + IGM



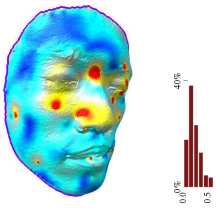
Dist:0.242 Flips:0

MIQ + BD



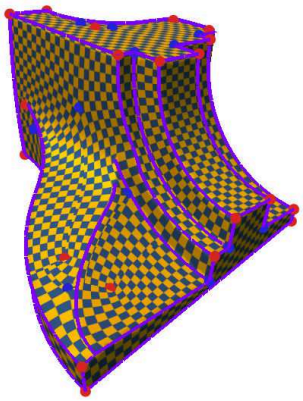
Dist:0.241 Flips:0

RGP



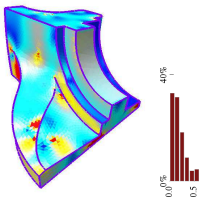
Dist:0.24 Flips:0

Name	Source	Faces	Genus	Cones
fandisk	unknown	14454	0	42



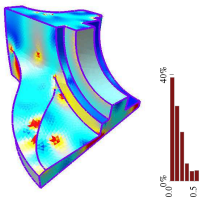
RGP Parametrization
TFaces:89 After Collapse:87

MIQ + Stiffening



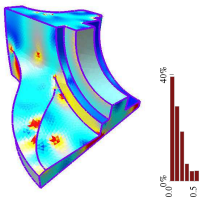
Dist:0.2347 Flips:0

MIQ + IGM



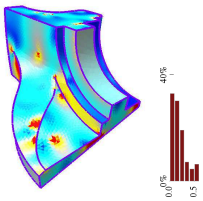
Dist:0.228 Flips:0

MIQ + BD



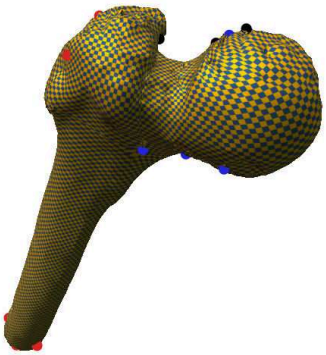
Dist:0.227 Flips:0

RGP



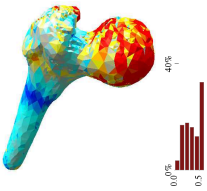
Dist:0.228 Flips:0

Name	Source	Faces	Genus	Cones
femur	Aim@Shape	7798	2	34



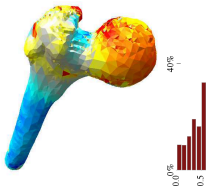
RGP Parametrization
TFaces:108

MIQ + Stiffening



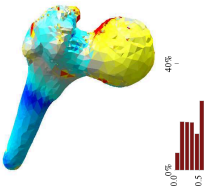
Dist:0.3887 Flips:124

MIQ + IGM



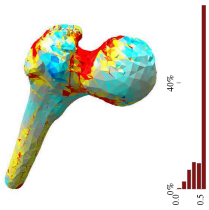
Dist:0.395 Flips:30

MIQ + BD



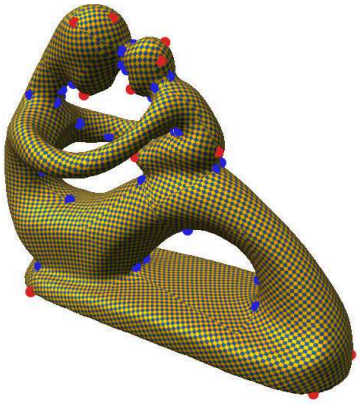
Dist:0.356 Flips:1

RGP



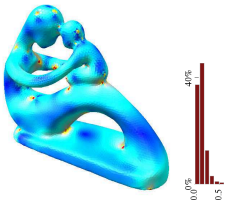
Dist:0.684 Flips:0

Name	Source	Faces	Genus	Cones
fertility	Aim@Shape	27954	4	60



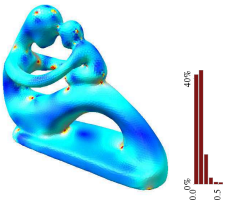
RGP Parametrization
TFaces:198

MIQ + Stiffening



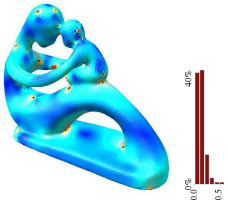
Dist:0.1549 Flips:0

MIQ + IGM



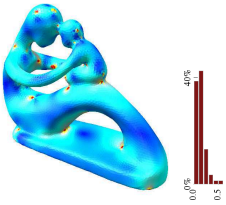
Dist:0.152 Flips:0

MIQ + BD



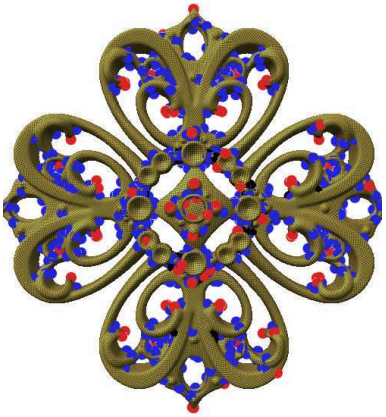
Dist:0.151 Flips:0

RGP



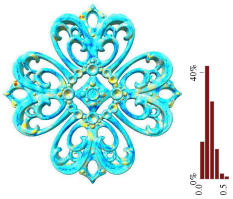
Dist:0.151 Flips:0

Name	Source	Faces	Genus	Cones
filigree	Aim@Shape	100000	65	549



RGP Parametrization
TFaces:2031 After Collapse:2024

MIQ + Stiffening



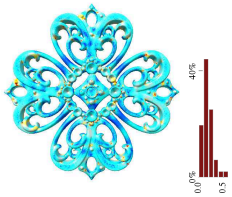
Dist:0.204 Flips:38

MIQ + IGM

Solver Fail

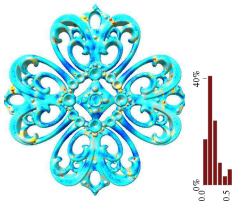
Dist: - Flips: -

MIQ + BD



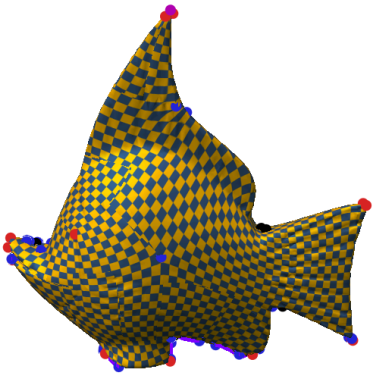
Dist:0.188 Flips:12

RGP



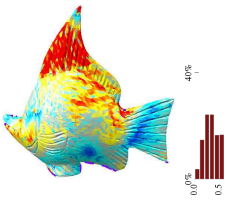
Dist:0.189 Flips:0

Name	Source	Faces	Genus	Cones
fish	Aim@Shape	13465	0	33



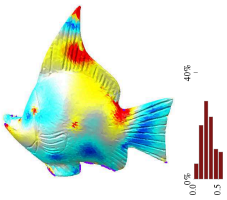
RGP Parametrization
TFaces:186

MIQ + Stiffening



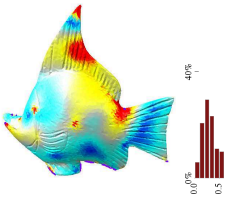
Dist:0.3939 Flips:1

MIQ + IGM



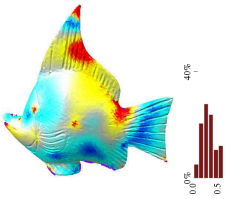
Dist:0.361 Flips:0

MIQ + BD



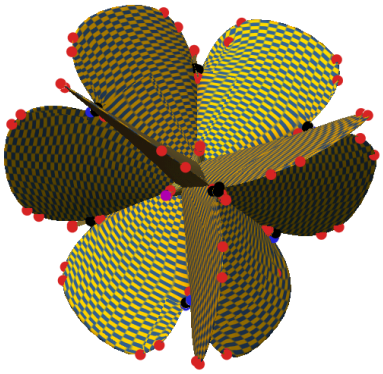
Dist:0.359 Flips:0

RGP



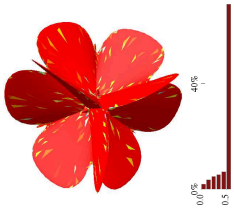
Dist:0.355 Flips:0

Name	Source	Faces	Genus	Cones
focal-octa	Aim@Shape	20156	0	116



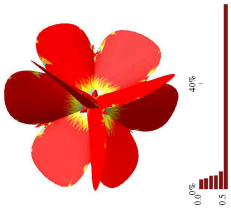
RGP Parametrization
TFaces:342

MIQ + Stiffening



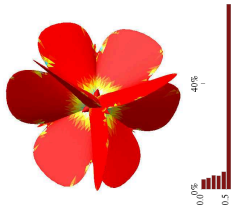
Dist:0.8539 Flips:145

MIQ + IGM



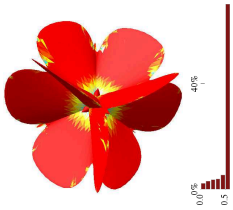
Dist:0.775 Flips:0

MIQ + BD



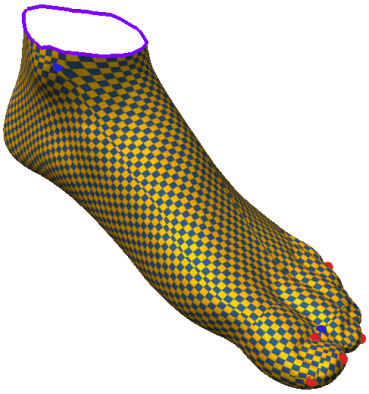
Dist:0.764 Flips:0

RGP



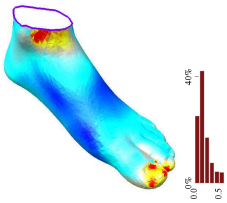
Dist:0.759 Flips:0

Name	Source	Faces	Genus	Cones
foot	Aim@Shape	19974	0	14



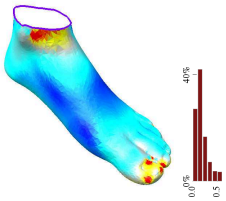
RGP Parametrization
TFaces:39

MIQ + Stiffening



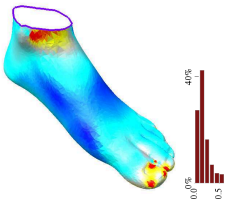
Dist:0.1818 Flips:0

MIQ + IGM



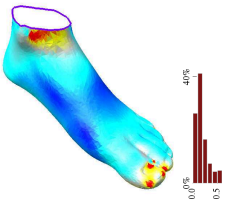
Dist:0.18 Flips:0

MIQ + BD



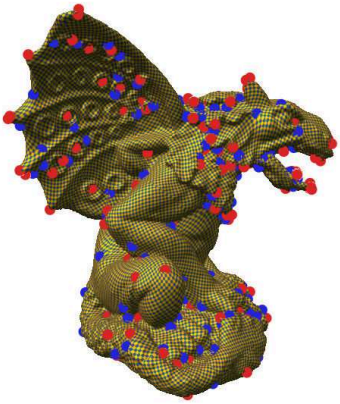
Dist:0.179 Flips:0

RGP



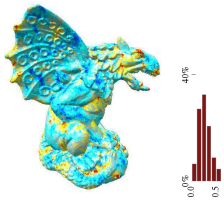
Dist:0.178 Flips:0

Name	Source	Faces	Genus	Cones
gargoyle	Aim@Shape	100000	0	357



RGP Parametrization
TFaces:1065

MIQ + Stiffening



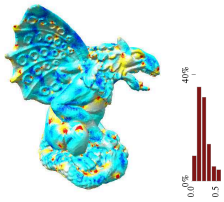
Dist:0.2786 Flips:1

MIQ + IGM

Solver Fail

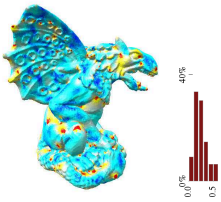
Dist: - Flips: -

MIQ + BD



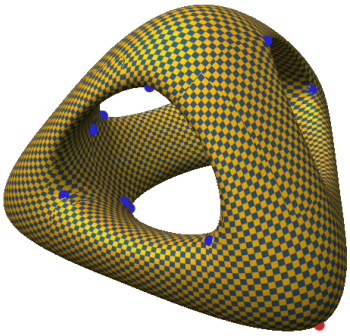
Dist:0.257 Flips:0

RGP



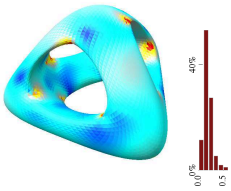
Dist:0.255 Flips:0

Name	Source	Faces	Genus	Cones
genus3	Aim@Shape	13312	3	22



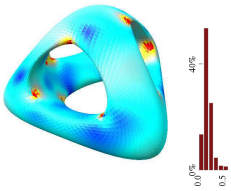
RGP Parametrization
TFaces:78

MIQ + Stiffening



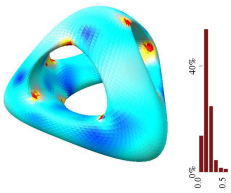
Dist:0.1994 Flips:0

MIQ + IGM



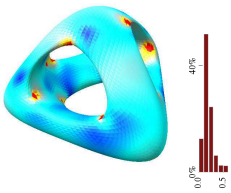
Dist:0.196 Flips:0

MIQ + BD



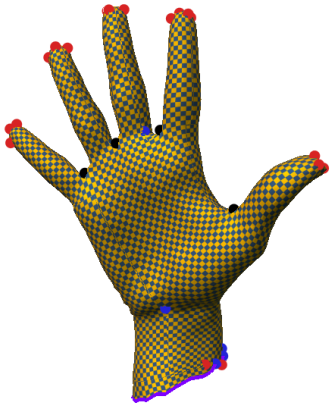
Dist:0.196 Flips:0

RGP



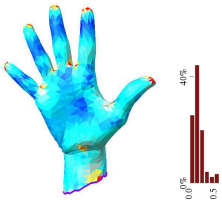
Dist:0.195 Flips:0

Name	Source	Faces	Genus	Cones
hand	Aim@Shape	3000	0	30



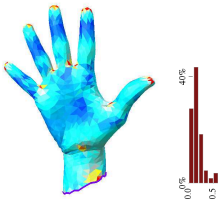
RGP Parametrization
TFaces:93

MIQ + Stiffening



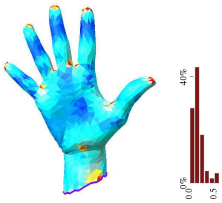
Dist:0.1922 Flips:0

MIQ + IGM



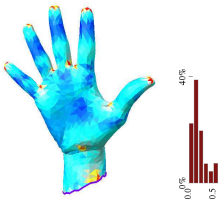
Dist:0.191 Flips:0

MIQ + BD



Dist:0.19 Flips:0

RGP

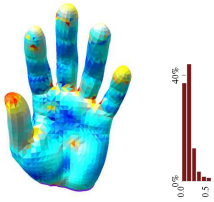


Dist:0.164 Flips:0

Name	Source	Faces	Genus	Cones
hand olivier	Aim@Shape	6660	0	34

RGP Parametrization
TFaces:105

MIQ + Stiffening



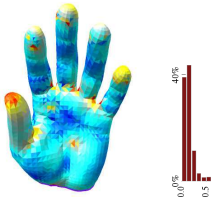
Dist:0.1935 Flips:0

MIQ + IGM

Solver Fail

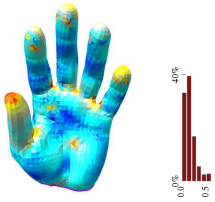
Dist: - Flips: -

MIQ + BD



Dist:0.194 Flips:0

RGP

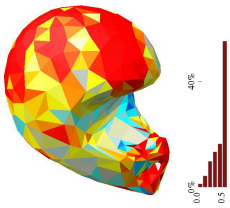


Dist:0.19 Flips:0

Name	Source	Faces	Genus	Cones
helmet	Aim@Shape	1000	3	9

RGP Parametrization
TFaces:39 After Collapse:34

MIQ + Stiffening



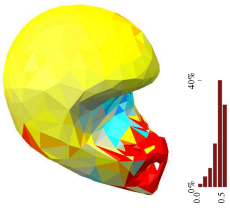
Dist:0.4873 Flips:21

MIQ + IGM

Solver Fail

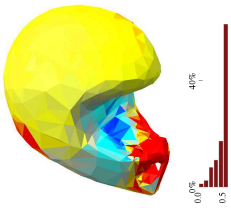
Dist: - Flips: -

MIQ + BD



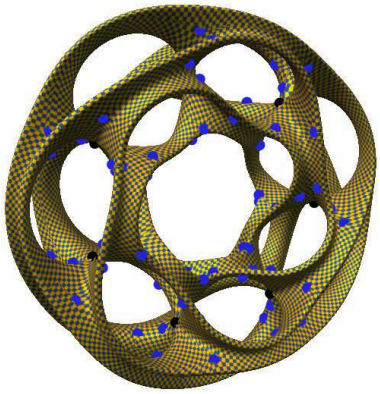
Dist:0.495 Flips:13

RGP



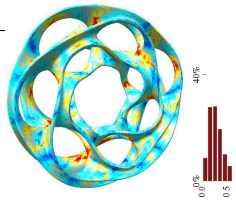
Dist:0.487 Flips:0

Name	Source	Faces	Genus	Cones
heptoroid	Princeton	100000	22	140



RGP Parametrization
TFaces:546

MIQ + Stiffening



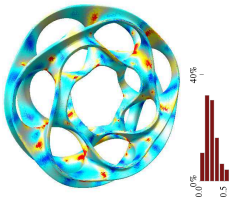
Dist:0.295 Flips:3

MIQ + IGM

Solver Fail

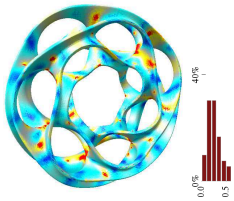
Dist: - Flips: -

MIQ + BD



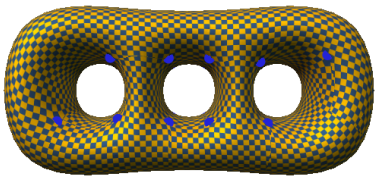
Dist:0.274 Flips:2

RGP



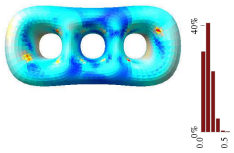
Dist:0.272 Flips:0

Name	Source	Faces	Genus	Cones
holes3	unknown	11776	3	24



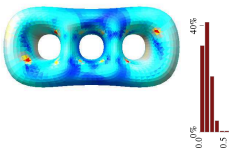
RGP Parametrization
TFaces:84

MIQ + Stiffening



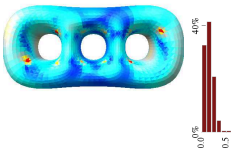
Dist:0.182 Flips:0

MIQ + IGM



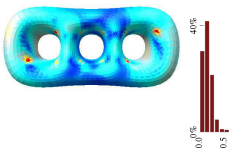
Dist:0.179 Flips:0

MIQ + BD



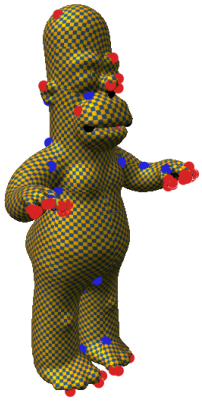
Dist:0.179 Flips:0

RGP



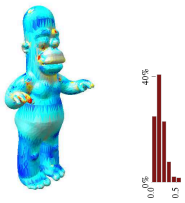
Dist:0.179 Flips:0

Name	Source	Faces	Genus	Cones
homer	Aim@Shape	10202	0	82



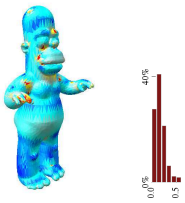
RGP Parametrization
TFaces:240

MIQ + Stiffening



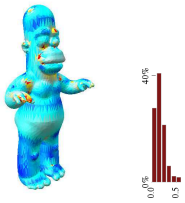
Dist:0.1748 Flips:0

MIQ + IGM



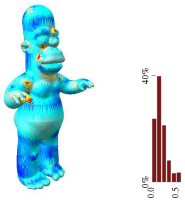
Dist:0.171 Flips:0

MIQ + BD



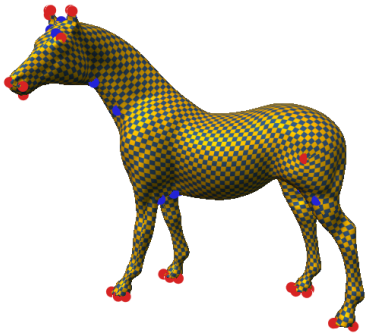
Dist:0.171 Flips:0

RGP



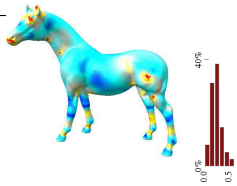
Dist:0.168 Flips:0

Name	Source	Faces	Genus	Cones
horse	Aim@Shape	39698	0	52



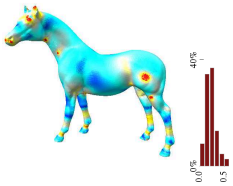
RGP Parametrization
TFaces:150

MIQ + Stiffening



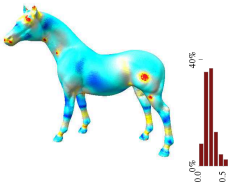
Dist:0.25 Flips:0

MIQ + IGM



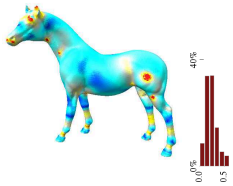
Dist:0.246 Flips:0

MIQ + BD



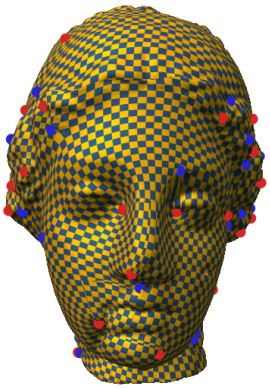
Dist:0.245 Flips:0

RGP



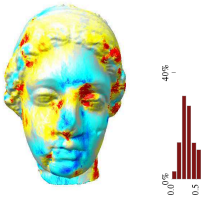
Dist:0.244 Flips:0

Name	Source	Faces	Genus	Cones
igea	Aim@Shape	100000	0	80



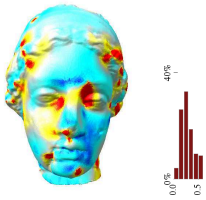
RGP Parametrization
TFaces:234

MIQ + Stiffening



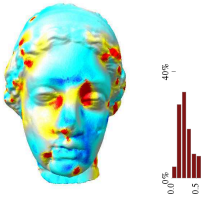
Dist:0.3441 Flips:0

MIQ + IGM



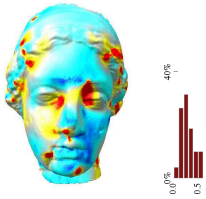
Dist:0.323 Flips:0

MIQ + BD



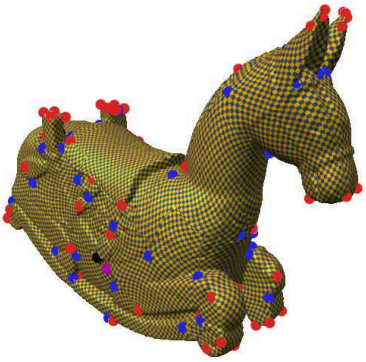
Dist:0.32 Flips:0

RGP



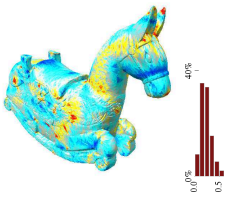
Dist:0.319 Flips:0

Name	Source	Faces	Genus	Cones
isidore horse	Aim@Shape	100000	0	127



RGP Parametrization
TFaces:375

MIQ + Stiffening



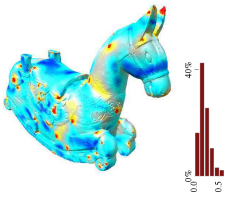
Dist:0.2529 Flips:3

MIQ + IGM

Solver Fail

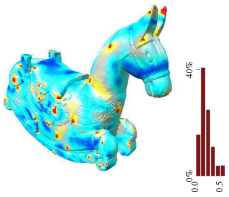
Dist: - Flips: -

MIQ + BD



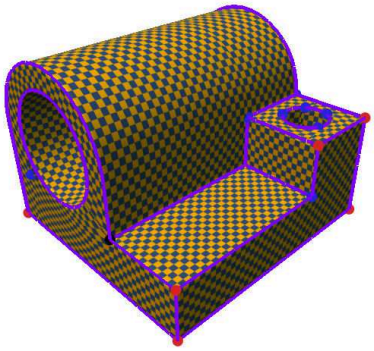
Dist:0.228 Flips:3

RGP



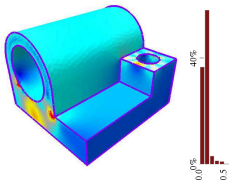
Dist:0.227 Flips:0

Name	Source	Faces	Genus	Cones
joint	Aim@Shape	41808	2	23



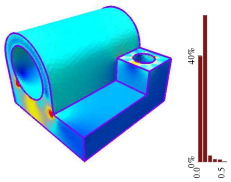
RGP Parametrization
TFaces:47 After Collapse:47

MIQ + Stiffening



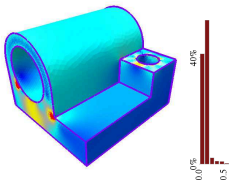
Dist:0.1417 Flips:0

MIQ + IGM



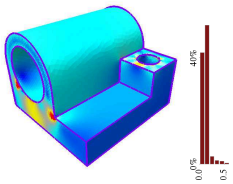
Dist:0.139 Flips:0

MIQ + BD



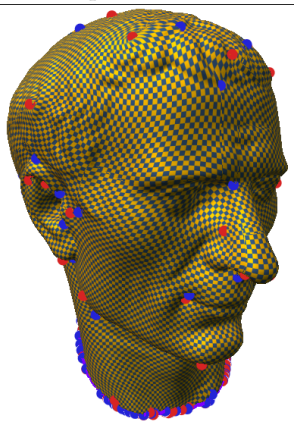
Dist:0.137 Flips:0

RGP



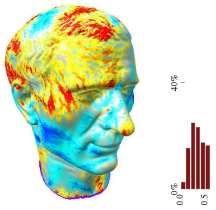
Dist:0.137 Flips:0

Name	Source	Faces	Genus	Cones
julius	Aim@Shape	85145	0	95



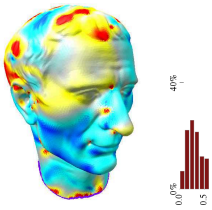
RGP Parametrization
TFaces:415

MIQ + Stiffening



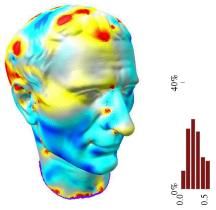
Dist:0.3598 Flips:26

MIQ + IGM



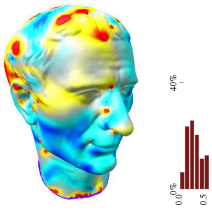
Dist:0.331 Flips:0

MIQ + BD



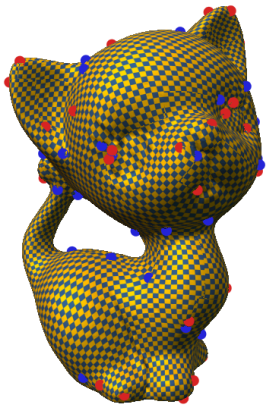
Dist:0.327 Flips:0

RGP



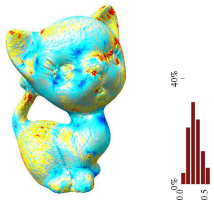
Dist:0.327 Flips:0

Name	Source	Faces	Genus	Cones
kitten	Aim@Shape	100000	1	78



RGP Parametrization
TFaces:234

MIQ + Stiffening



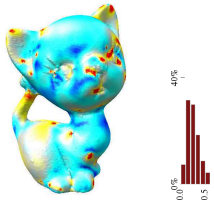
Dist:0.3152 Flips:2

MIQ + IGM

Solver Fail

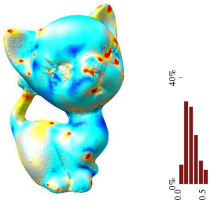
Dist: - Flips: -

MIQ + BD



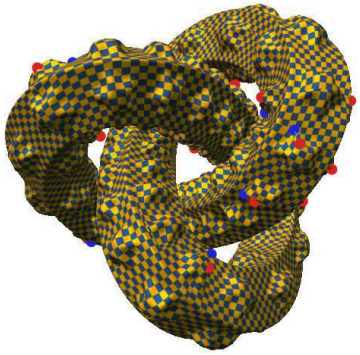
Dist:0.289 Flips:0

RGP



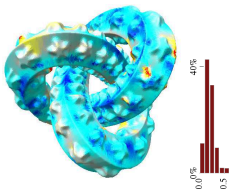
Dist:0.289 Flips:0

Name	Source	Faces	Genus	Cones
knot	Aim@Shape	100000	1	42



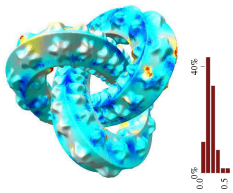
RGP Parametrization
TFaces:126

MIQ + Stiffening



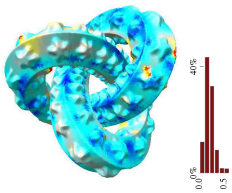
Dist:0.2256 Flips:0

MIQ + IGM



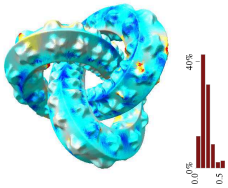
Dist:0.225 Flips:0

MIQ + BD



Dist:0.224 Flips:0

RGP

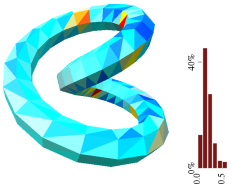


Dist:0.224 Flips:0

Name	Source	Faces	Genus	Cones
knot1	Aim@Shape	480	1	12

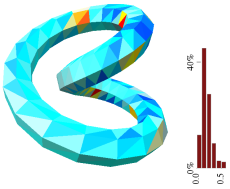
RGP Parametrization
TFaces:36

MIQ + Stiffening



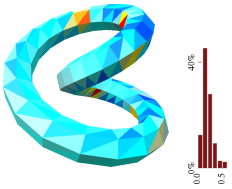
Dist:0.2181 Flips:0

MIQ + IGM



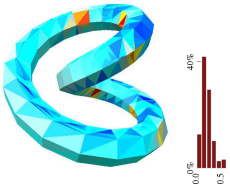
Dist:0.218 Flips:0

MIQ + BD



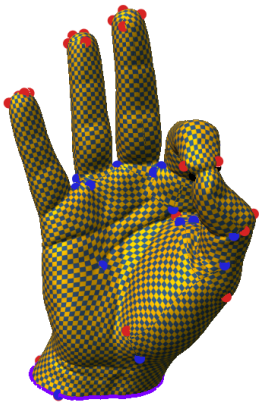
Dist:0.218 Flips:0

RGP



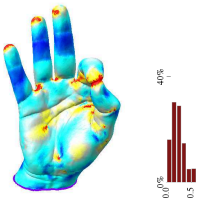
Dist:0.216 Flips:0

Name	Source	Faces	Genus	Cones
laurent hand	Aim@Shape	99999	1	53



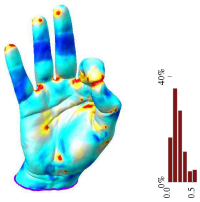
RGP Parametrization
TFaces:169

MIQ + Stiffening



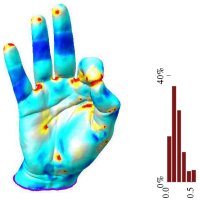
Dist:0.2523 Flips:0

MIQ + IGM



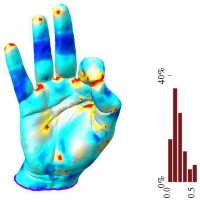
Dist:0.245 Flips:0

MIQ + BD



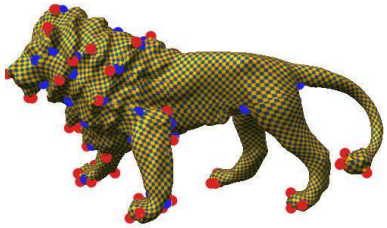
Dist:0.243 Flips:0

RGP



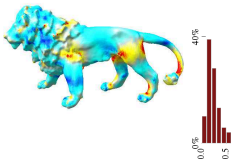
Dist:0.243 Flips:0

Name	Source	Faces	Genus	Cones
lion	Princeton	55794	0	95



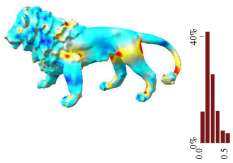
RGP Parametrization
TFaces:279 After Collapse:276

MIQ + Stiffening



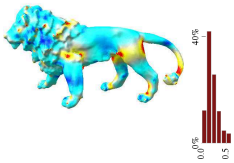
Dist:0.2597 Flips:0

MIQ + IGM



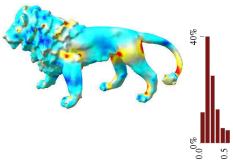
Dist:0.253 Flips:0

MIQ + BD



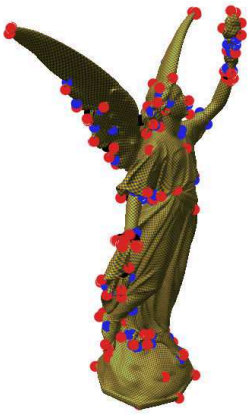
Dist:0.251 Flips:0

RGP



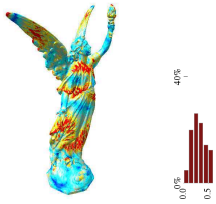
Dist:0.25 Flips:0

Name	Source	Faces	Genus	Cones
lucy	Stanford	100000	0	287



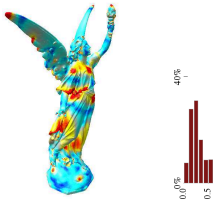
RGP Parametrization
TFaces:855

MIQ + Stiffening



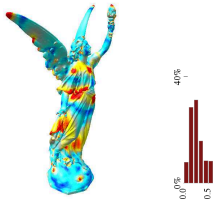
Dist:0.3444 Flips:6

MIQ + IGM



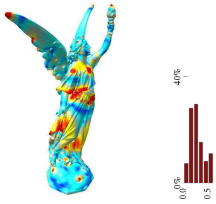
Dist:0.311 Flips:0

MIQ + BD



Dist:0.307 Flips:0

RGP

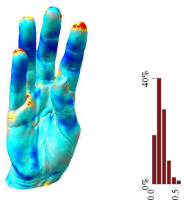


Dist:0.308 Flips:0

Name	Source	Faces	Genus	Cones
magalie hand	Aim@Shape	100000	0	61

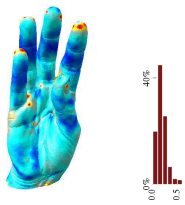
RGP Parametrization
TFaces:177 After Collapse:166

MIQ + Stiffening



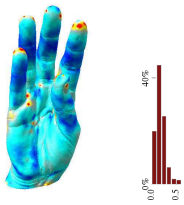
Dist:0.2187 Flips:0

MIQ + IGM



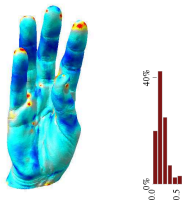
Dist:0.214 Flips:0

MIQ + BD



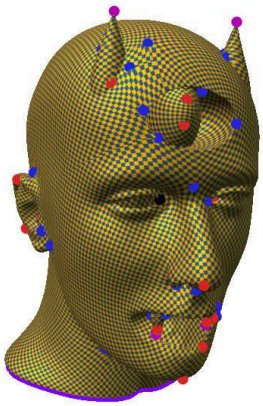
Dist:0.213 Flips:0

RGP



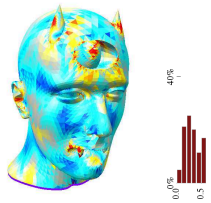
Dist:0.214 Flips:0

Name	Source	Faces	Genus	Cones
mannequin-devil	Aim@Shape	25888	0	89



RGP Parametrization
TFaces:264

MIQ + Stiffening



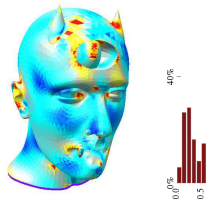
Dist:0.2716 Flips:29

MIQ + IGM

Solver Fail

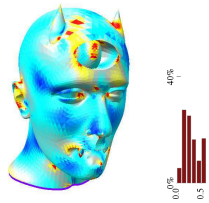
Dist: - Flips: -

MIQ + BD



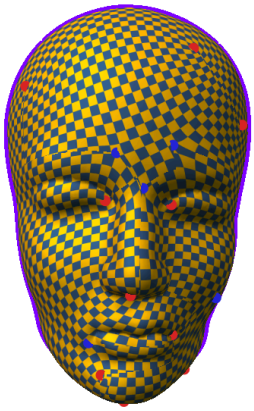
Dist:0.243 Flips:6

RGP



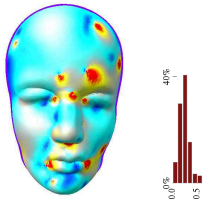
Dist:0.241 Flips:0

Name	Source	Faces	Genus	Cones
mask	Aim@Shape	62467	0	16



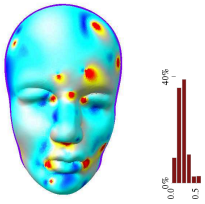
RGP Parametrization
TFaces:45

MIQ + Stiffening



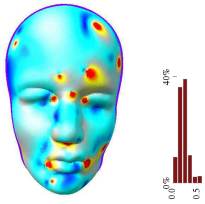
Dist:0.2615 Flips:0

MIQ + IGM



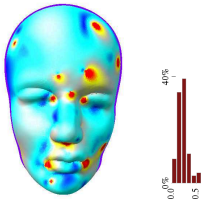
Dist:0.257 Flips:0

MIQ + BD



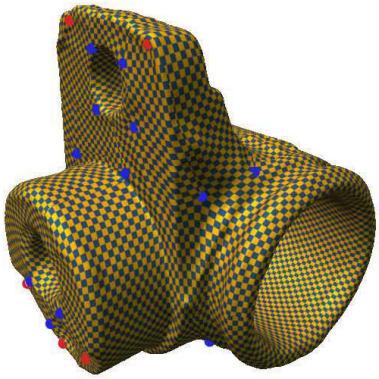
Dist:0.256 Flips:0

RGP



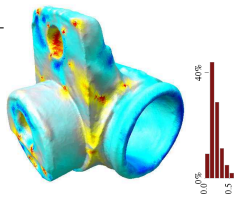
Dist:0.256 Flips:0

Name	Source	Faces	Genus	Cones
master cylinder	Aim@Shape	100000	3	32



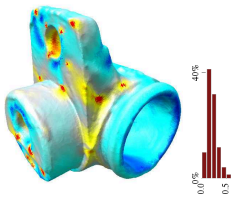
RGP Parametrization
TFaces:108 After Collapse:108

MIQ + Stiffening



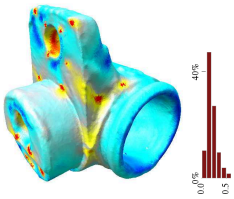
Dist:0.2362 Flips:0

MIQ + IGM



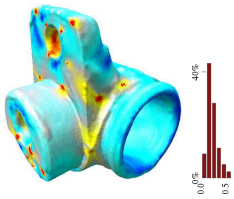
Dist:0.235 Flips:0

MIQ + BD



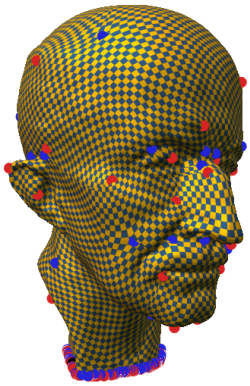
Dist:0.23 Flips:0

RGP



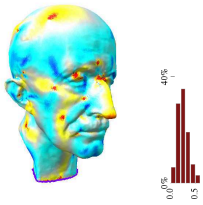
Dist:0.231 Flips:0

Name	Source	Faces	Genus	Cones
max-planck	Aim@Shape	100000	0	67



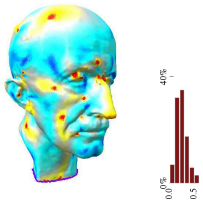
RGP Parametrization
TFaces:353

MIQ + Stiffening



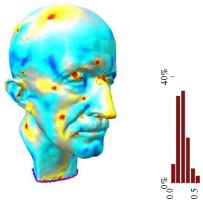
Dist:0.2726 Flips:0

MIQ + IGM



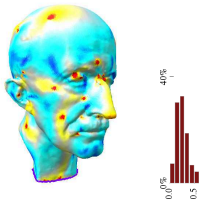
Dist:0.27 Flips:0

MIQ + BD



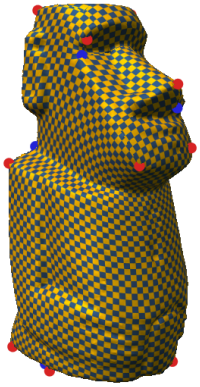
Dist:0.268 Flips:0

RGP



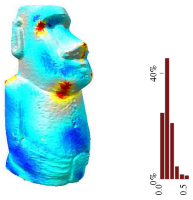
Dist:0.269 Flips:0

Name	Source	Faces	Genus	Cones
moai	Aim@Shape	20000	0	24



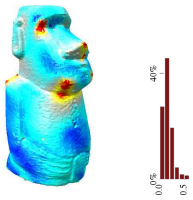
RGP Parametrization
TFaces:66

MIQ + Stiffening



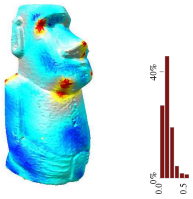
Dist:0.1923 Flips:0

MIQ + IGM



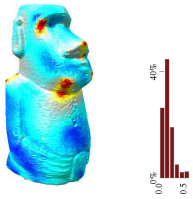
Dist:0.191 Flips:0

MIQ + BD



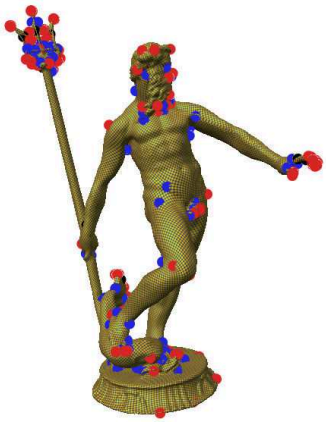
Dist:0.19 Flips:0

RGP



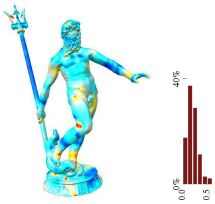
Dist:0.19 Flips:0

Name	Source	Faces	Genus	Cones
neptune	Aim@Shape	105030	3	212



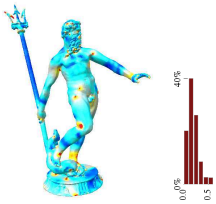
RGP Parametrization
TFaces:648 After Collapse:643

MIQ + Stiffening



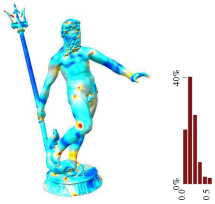
Dist:0.223 Flips:0

MIQ + IGM



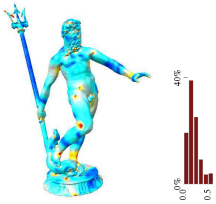
Dist:0.218 Flips:0

MIQ + BD



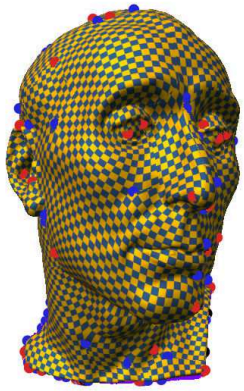
Dist:0.217 Flips:0

RGP



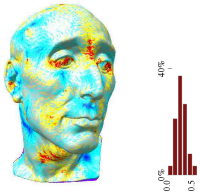
Dist:0.216 Flips:0

Name	Source	Faces	Genus	Cones
niccolo da uzzano	Aim@Shape	99994	0	91



RGP Parametrization
TFaces:458

MIQ + Stiffening



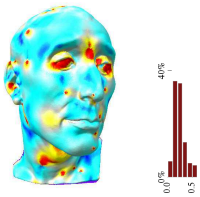
Dist:0.2938 Flips:26

MIQ + IGM

Solver Fail

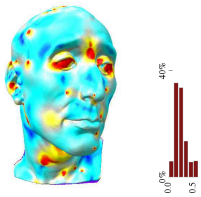
Dist: - Flips: -

MIQ + BD



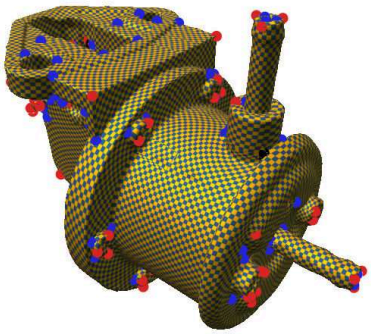
Dist:0.27 Flips:1

RGP



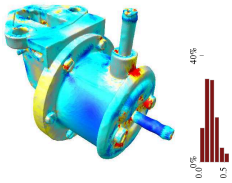
Dist:0.269 Flips:0

Name	Source	Faces	Genus	Cones
oil pump	Aim@Shape	100000	4	212



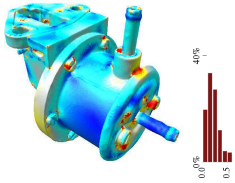
RGP Parametrization
TFaces:654 After Collapse:651

MIQ + Stiffening



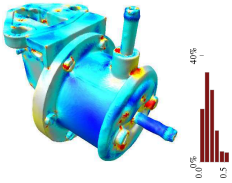
Dist:0.2392 Flips:0

MIQ + IGM



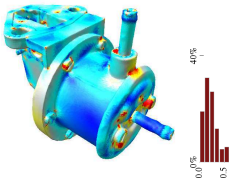
Dist:0.225 Flips:0

MIQ + BD



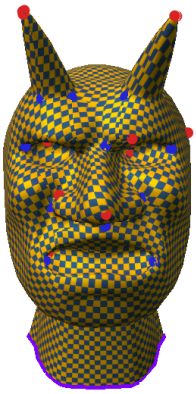
Dist:0.223 Flips:0

RGP



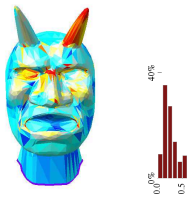
Dist:0.222 Flips:0

Name	Source	Faces	Genus	Cones
oni	Aim@Shape	2845	0	34



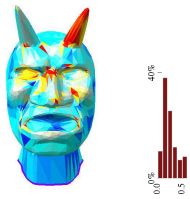
RGP Parametrization
TFaces:99 After Collapse:97

MIQ + Stiffening



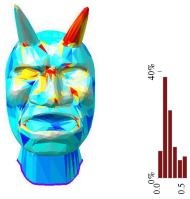
Dist:0.2214 Flips:0

MIQ + IGM



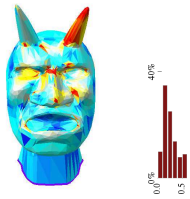
Dist:0.219 Flips:0

MIQ + BD



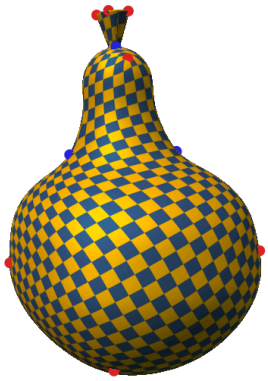
Dist:0.219 Flips:0

RGP



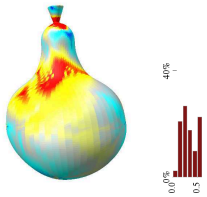
Dist:0.213 Flips:0

Name	Source	Faces	Genus	Cones
pear	Princeton	21504	0	14



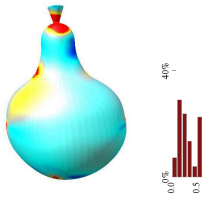
RGP Parametrization
TFaces:36

MIQ + Stiffening



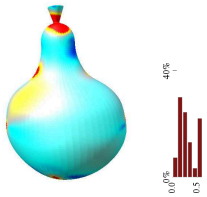
Dist:0.3256 Flips:1

MIQ + IGM



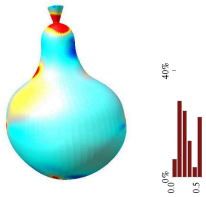
Dist:0.276 Flips:0

MIQ + BD



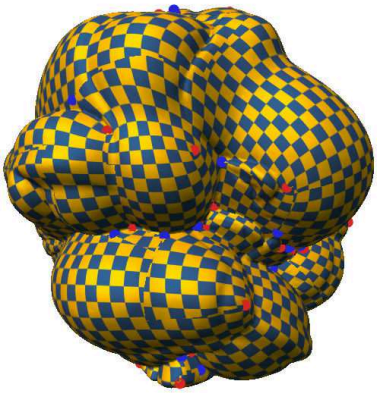
Dist:0.272 Flips:0

RGP



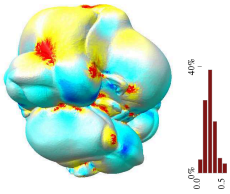
Dist:0.271 Flips:0

Name	Source	Faces	Genus	Cones
pensatore	Aim@Shape	100000	0	64



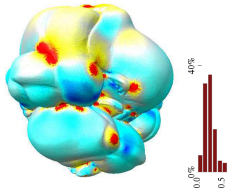
RGP Parametrization
TFaces:186

MIQ + Stiffening



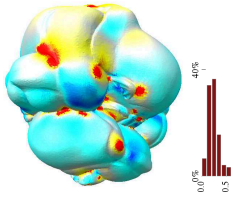
Dist:0.2734 Flips:0

MIQ + IGM



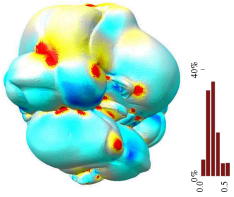
Dist:0.267 Flips:0

MIQ + BD



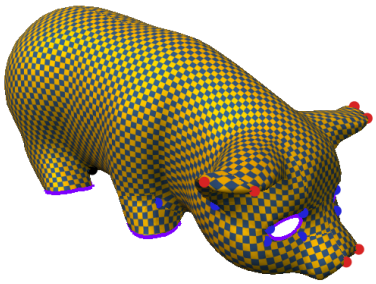
Dist:0.265 Flips:0

RGP



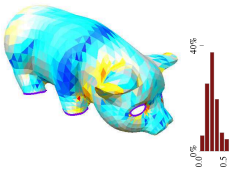
Dist:0.265 Flips:0

Name	Source	Faces	Genus	Cones
pig	Aim@Shape	3560	0	27



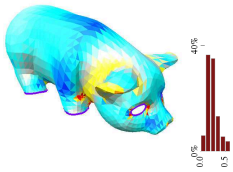
RGP Parametrization
TFaces:97 After Collapse:94

MIQ + Stiffening



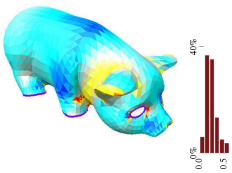
Dist:0.2671 Flips:2

MIQ + IGM



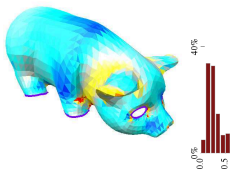
Dist:0.243 Flips:0

MIQ + BD



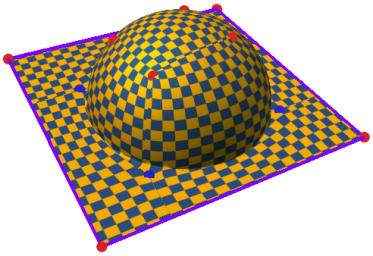
Dist:0.241 Flips:0

RGP



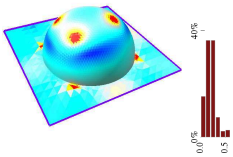
Dist:0.237 Flips:0

Name	Source	Faces	Genus	Cones
plane-sphere	Aim@Shape	6826	0	8



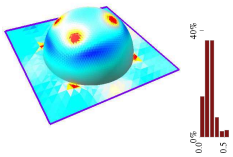
RGP Parametrization
TFaces:25

MIQ + Stiffening



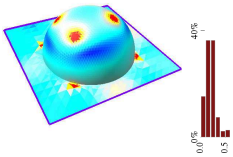
Dist:0.2377 Flips:0

MIQ + IGM



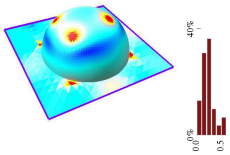
Dist:0.238 Flips:0

MIQ + BD



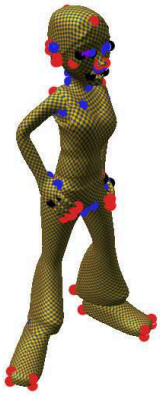
Dist:0.238 Flips:0

RGP



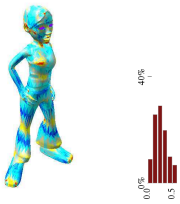
Dist:0.236 Flips:0

Name	Source	Faces	Genus	Cones
polygirl	Aim@Shape	19809	0	132



RGP Parametrization
TFaces:402

MIQ + Stiffening



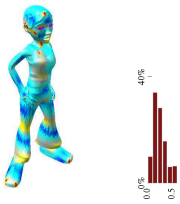
Dist:0.258 Flips:4

MIQ + IGM

Solver Fail

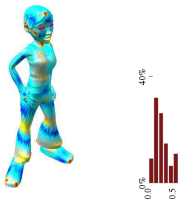
Dist: - Flips: -

MIQ + BD



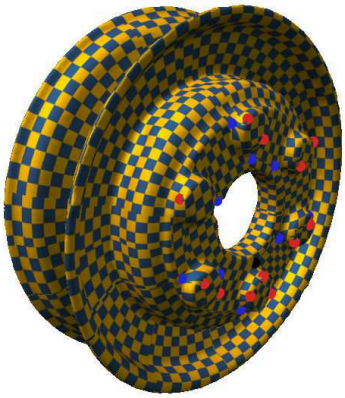
Dist:0.24 Flips:0

RGP



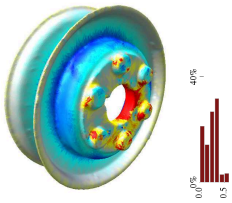
Dist:0.237 Flips:0

Name	Source	Faces	Genus	Cones
pulley	Aim@Shape	100000	1	39



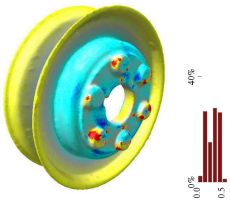
RGP Parametrization
TFaces:117

MIQ + Stiffening



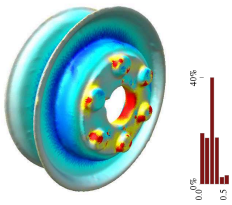
Dist:0.2555 Flips:0

MIQ + IGM



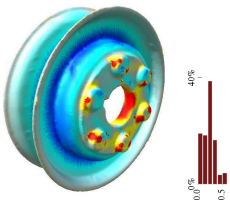
Dist:0.317 Flips:1

MIQ + BD



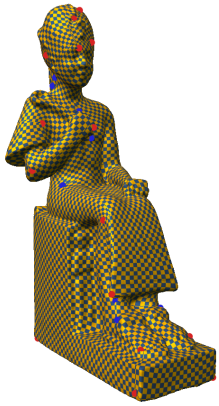
Dist:0.243 Flips:0

RGP



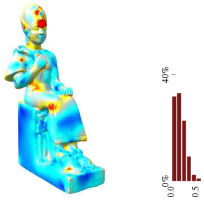
Dist:0.242 Flips:0

Name	Source	Faces	Genus	Cones
ramses	Aim@Shape	100000	0	32



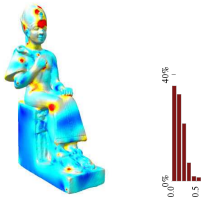
RGP Parametrization
TFaces:90

MIQ + Stiffening



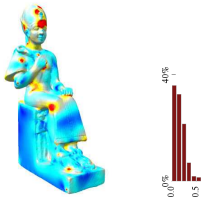
Dist:0.2263 Flips:0

MIQ + IGM



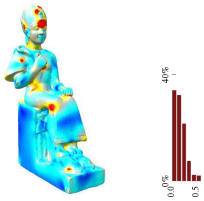
Dist:0.223 Flips:0

MIQ + BD



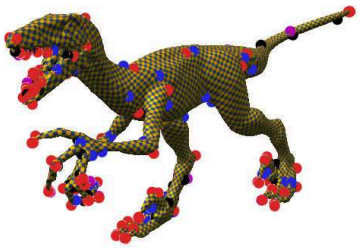
Dist:0.222 Flips:0

RGP



Dist:0.222 Flips:0

Name	Source	Faces	Genus	Cones
raptor	Aim@Shape	46574	10	190



RGP Parametrization
TFaces:624 After Collapse:614 Inserted cones:8

MIQ + Stiffening

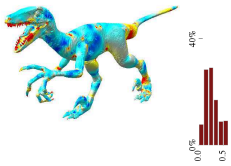
Dist:0.3466 Flips:111

MIQ + IGM

Solver Fail

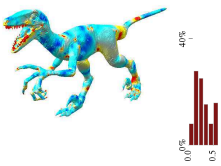
Dist: - Flips: -

MIQ + BD



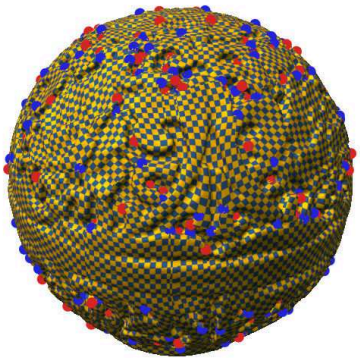
Dist:0.322 Flips:52

RGP



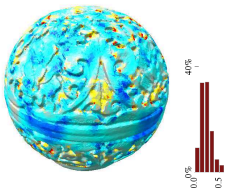
Dist:0.301 Flips:0

Name	Source	Faces	Genus	Cones
red circular box	Aim@Shape	100000	0	340



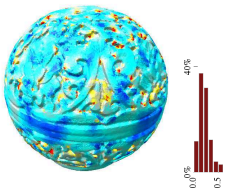
RGP Parametrization
TFaces:1014

MIQ + Stiffening



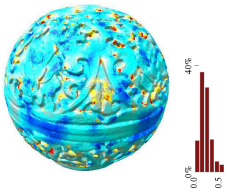
Dist:0.2488 Flips:0

MIQ + IGM



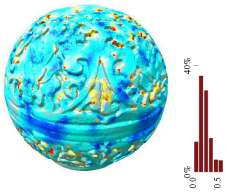
Dist:0.243 Flips:0

MIQ + BD



Dist:0.242 Flips:0

RGP

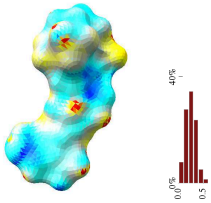


Dist:0.241 Flips:0

Name	Source	Faces	Genus	Cones
retinal	Aim@Shape	7282	0	18

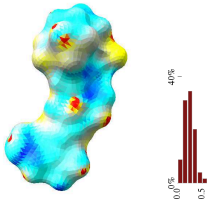
RGP Parametrization
TFaces:48

MIQ + Stiffening



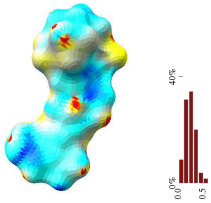
Dist:0.2671 Flips:0

MIQ + IGM



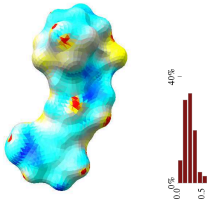
Dist:0.263 Flips:0

MIQ + BD



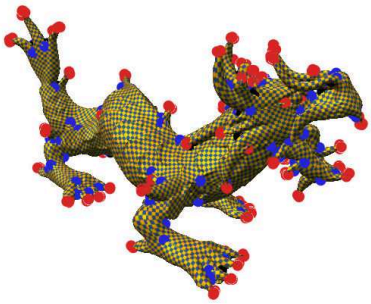
Dist:0.263 Flips:0

RGP



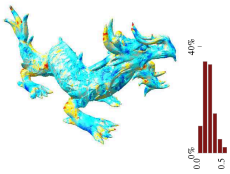
Dist:0.261 Flips:0

Name	Source	Faces	Genus	Cones
rgb dragon	Stanford	105022	0	325



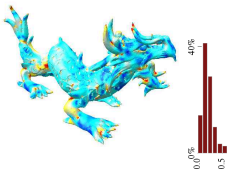
RGP Parametrization
TFaces:969

MIQ + Stiffening



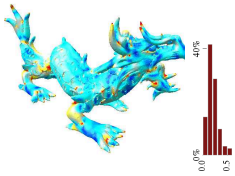
Dist:0.2496 Flips:4

MIQ + IGM



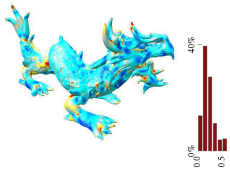
Dist:0.231 Flips:0

MIQ + BD



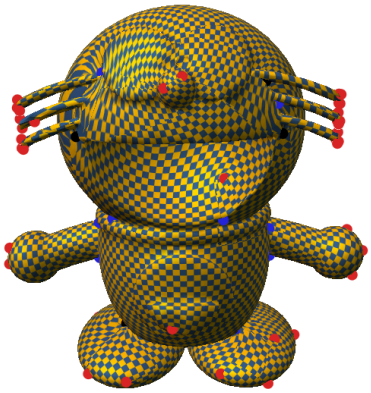
Dist:0.23 Flips:1

RGP



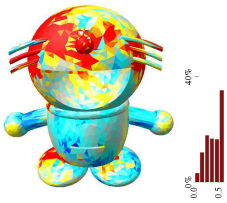
Dist:0.229 Flips:0

Name	Source	Faces	Genus	Cones
robocat	Aim@Shape	7512	1	84



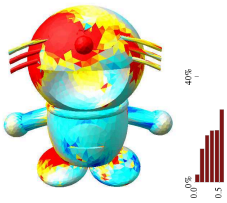
RGP Parametrization
TFaces:252

MIQ + Stiffening



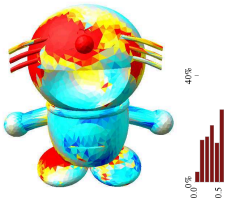
Dist:0.4831 Flips:113

MIQ + IGM



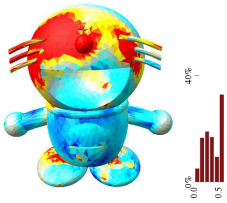
Dist:0.515 Flips:97

MIQ + BD



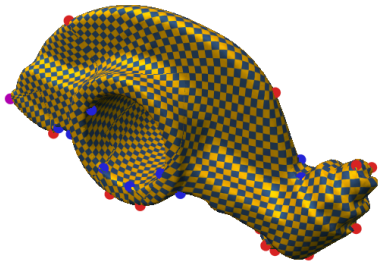
Dist:0.503 Flips:72

RGP



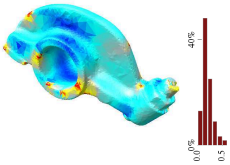
Dist:0.425 Flips:0

Name	Source	Faces	Genus	Cones
rocker arm	Aim@Shape	20088	1	35



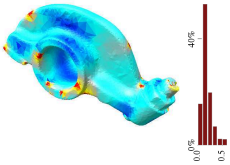
RGP Parametrization
TFaces:105

MIQ + Stiffening



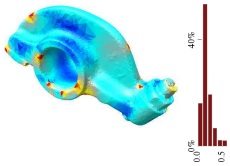
Dist:0.2041 Flips:0

MIQ + IGM



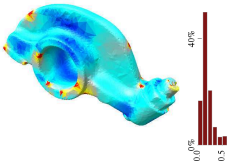
Dist:0.198 Flips:0

MIQ + BD



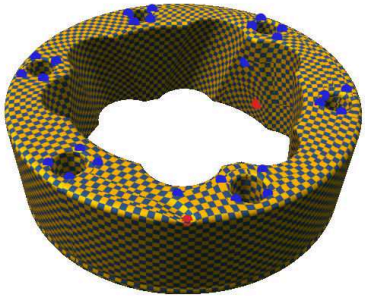
Dist:0.197 Flips:0

RGP



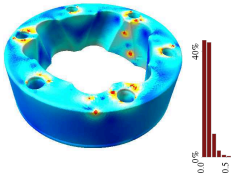
Dist:0.195 Flips:0

Name	Source	Faces	Genus	Cones
rolling stage	Aim@Shape	100000	7	52



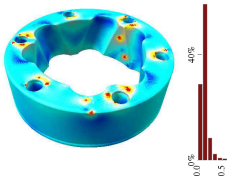
RGP Parametrization
TFaces:192

MIQ + Stiffening



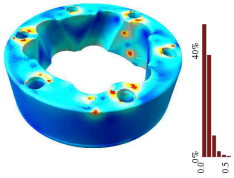
Dist:0.14 Flips:0

MIQ + IGM



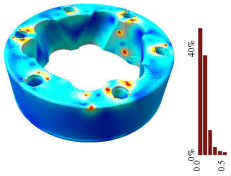
Dist:0.155 Flips:0

MIQ + BD



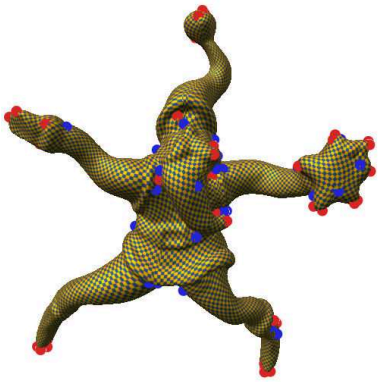
Dist:0.138 Flips:0

RGP



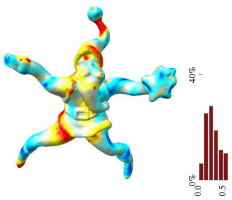
Dist:0.138 Flips:0

Name	Source	Faces	Genus	Cones
santa	Princeton	151558	0	82



RGP Parametrization
TFaces:240

MIQ + Stiffening



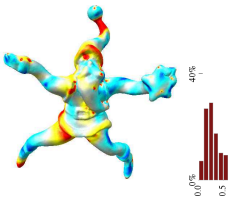
Dist:0.3339 Flips:0

MIQ + IGM

Solver Fail

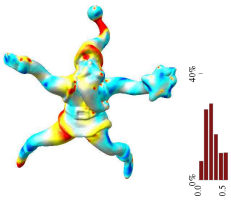
Dist:0 Flips: -

MIQ + BD



Dist:0.328 Flips:0

RGP

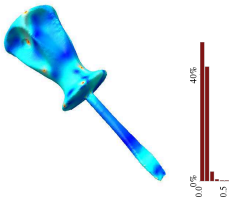


Dist:0.328 Flips:0

Name	Source	Faces	Genus	Cones
screwdriver	Aim@Shape	54300	0	26

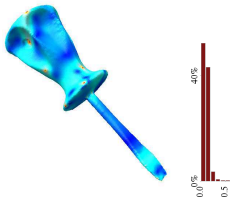
RGP Parametrization
TFaces:72

MIQ + Stiffening



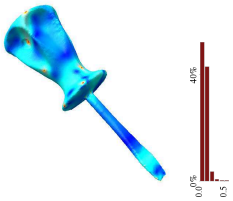
Dist:0.1221 Flips:0

MIQ + IGM



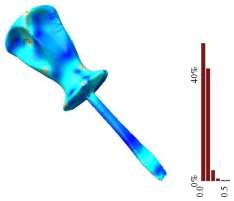
Dist:0.122 Flips:0

MIQ + BD



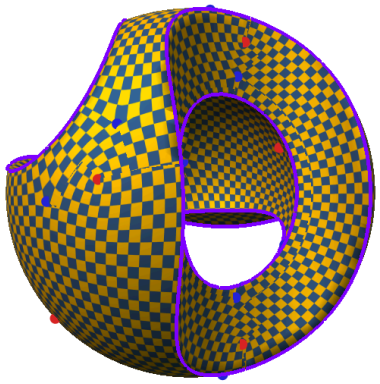
Dist:0.122 Flips:0

RGP



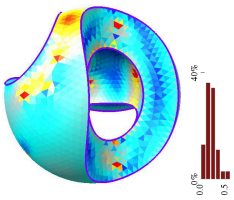
Dist:0.122 Flips:0

Name	Source	Faces	Genus	Cones
sculpt	Aim@Shape	7342	2	30



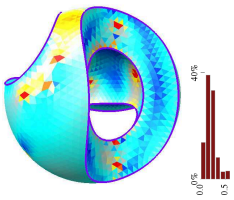
RGP Parametrization
TFaces:96 After Collapse:92

MIQ + Stiffening



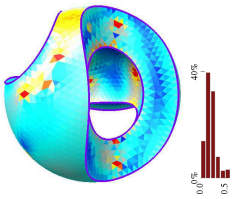
Dist:0.2424 Flips:0

MIQ + IGM



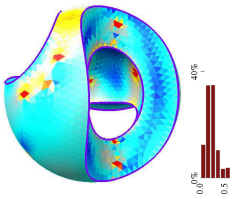
Dist:0.239 Flips:0

MIQ + BD



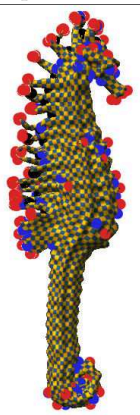
Dist:0.239 Flips:0

RGP



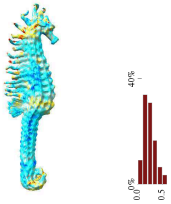
Dist:0.237 Flips:0

Name	Source	Faces	Genus	Cones
seahorse2	Aim@Shape	100000	8	216



RGP Parametrization
TFaces:690 After Collapse:687 Inserted cones:2

MIQ + Stiffening



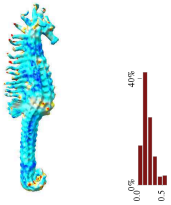
Dist:0.2628 Flips:32

MIQ + IGM

Solver Fail

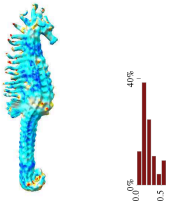
Dist: - Flips: -

MIQ + BD



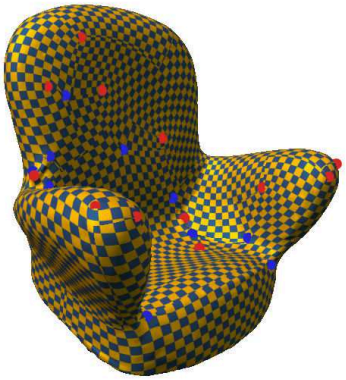
Dist:0.24 Flips:21

RGP



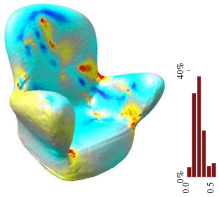
Dist:0.24 Flips:0

Name	Source	Faces	Genus	Cones
sediapatch1	Aim@Shape	99968	0	36



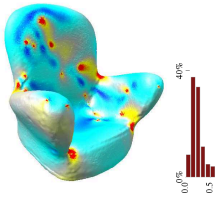
RGP Parametrization
TFaces:102

MIQ + Stiffening



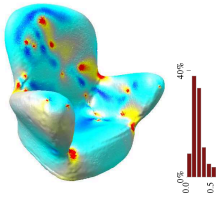
Dist:0.2797 Flips:0

MIQ + IGM



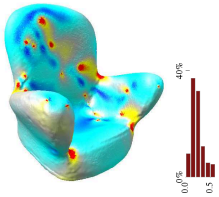
Dist:0.268 Flips:0

MIQ + BD



Dist:0.266 Flips:0

RGP



Dist:0.265 Flips:0

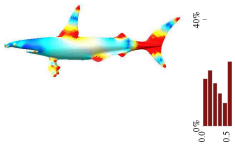
Name	Source	Faces	Genus	Cones
shark	Aim@Shape	20104	0	59

RGP Parametrization
TFaces:210

MIQ + Stiffening

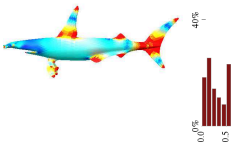
Dist:0.4576 Flips:21

MIQ + IGM



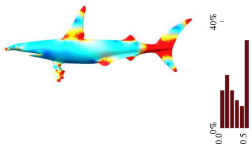
Dist:0.406 Flips:0

MIQ + BD



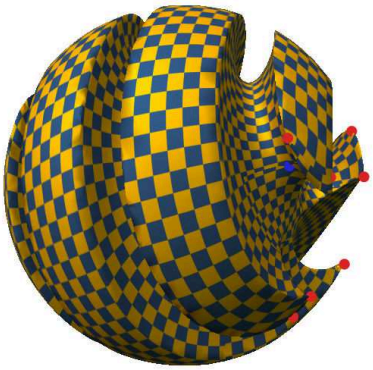
Dist:0.385 Flips:3

RGP



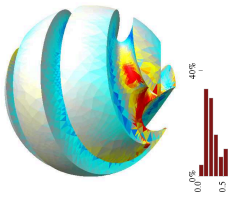
Dist:0.393 Flips:0

Name	Source	Faces	Genus	Cones
sharp sphere	Aim@Shape	20882	0	24



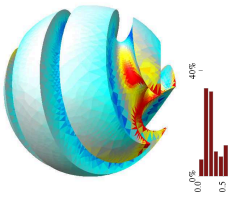
RGP Parametrization
TFaces:66

MIQ + Stiffening



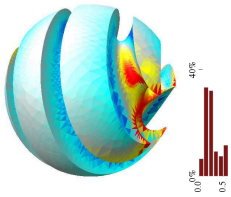
Dist:0.2829 Flips:0

MIQ + IGM



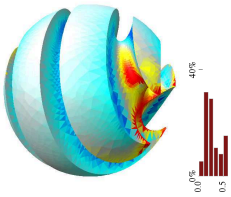
Dist:0.278 Flips:0

MIQ + BD



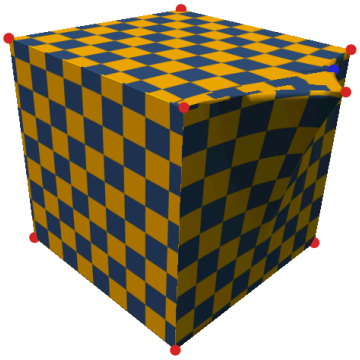
Dist:0.277 Flips:0

RGP



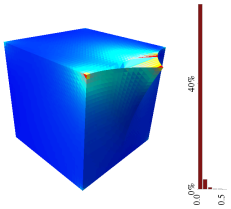
Dist:0.276 Flips:0

Name	Source	Faces	Genus	Cones
smooth-feature	Aim@Shape	12350	0	10



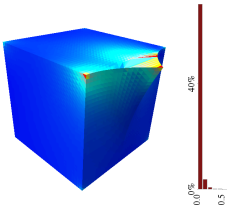
RGP Parametrization
TFaces:24

MIQ + Stiffening



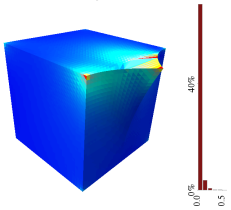
Dist:0.059 Flips:0

MIQ + IGM



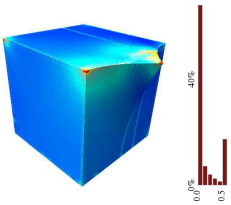
Dist:0.059 Flips:0

MIQ + BD



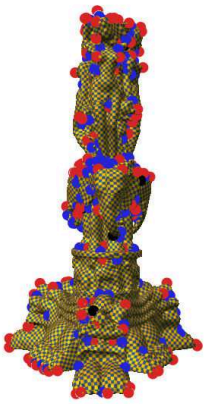
Dist:0.059 Flips:0

RGP



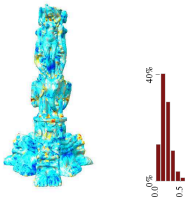
Dist:0.057 Flips:0

Name	Source	Faces	Genus	Cones
thai statue	Stanford (Poisson)	79970	3	366



RGP Parametrization
TFaces:1110

MIQ + Stiffening



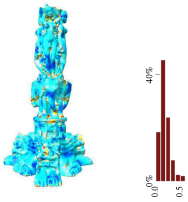
Dist:0.216 Flips:4

MIQ + IGM

Solver Fail

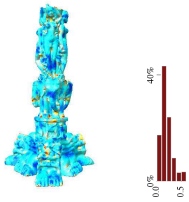
Dist: - Flips: -

MIQ + BD



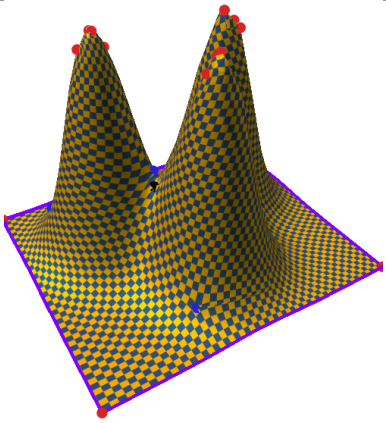
Dist:0.201 Flips:6

RGP



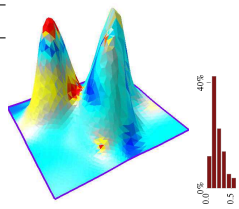
Dist:0.198 Flips:0

Name	Source	Faces	Genus	Cones
three peaks	Aim@Shape	3671	0	17



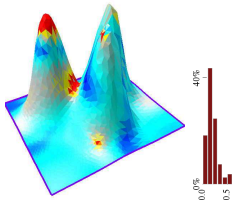
RGP Parametrization
TFaces:52

MIQ + Stiffening



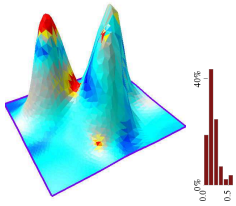
Dist:0.2587 Flips:0

MIQ + IGM



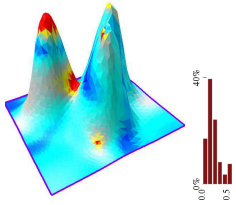
Dist:0.249 Flips:0

MIQ + BD



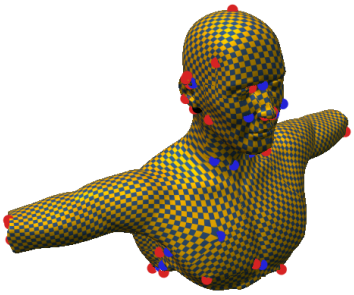
Dist:0.248 Flips:0

RGP



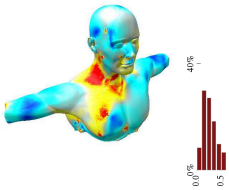
Dist:0.243 Flips:0

Name	Source	Faces	Genus	Cones
torso	Aim@Shape	100000	0	73



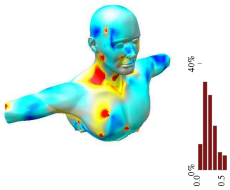
RGP Parametrization
TFaces:213

MIQ + Stiffening



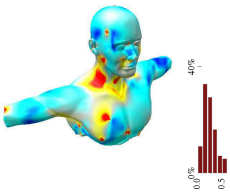
Dist:0.3015 Flips:0

MIQ + IGM



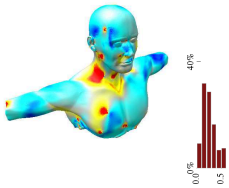
Dist:0.291 Flips:0

MIQ + BD



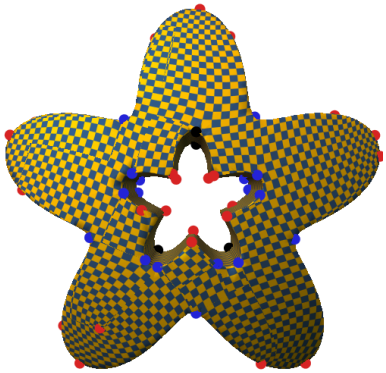
Dist:0.289 Flips:0

RGP



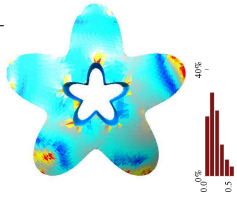
Dist:0.288 Flips:0

Name	Source	Faces	Genus	Cones
trim-star	Aim@Shape	10384	1	56



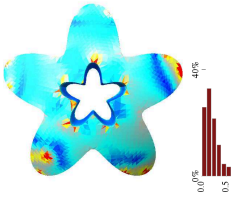
RGP Parametrization
TFaces:168

MIQ + Stiffening



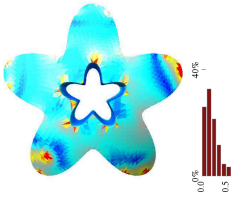
Dist:0.2485 Flips:0

MIQ + IGM



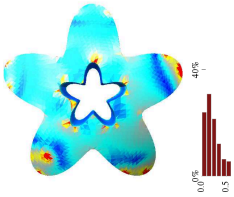
Dist:0.245 Flips:0

MIQ + BD



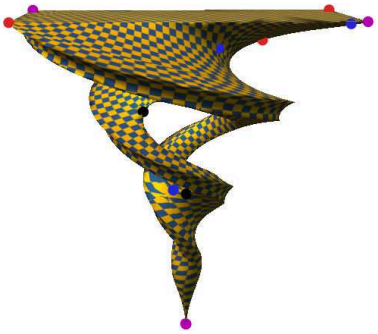
Dist:0.245 Flips:0

RGP



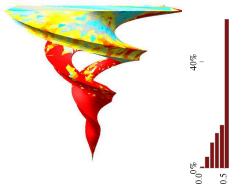
Dist:0.243 Flips:0

Name	Source	Faces	Genus	Cones
twirl	Aim@Shape	10402	1	16



RGP Parametrization
TFaces:48 After Collapse:56 Inserted cones:4

MIQ + Stiffening



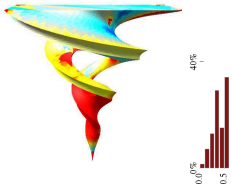
Dist:0.5334 Flips:72

MIQ + IGM

Solver Fail

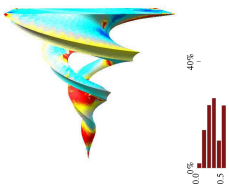
Dist: - Flips: -

MIQ + BD



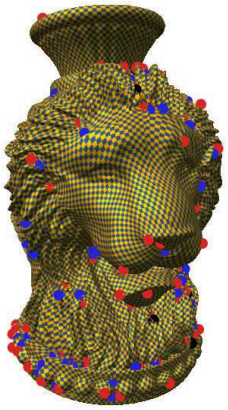
Dist:0.475 Flips:0

RGP



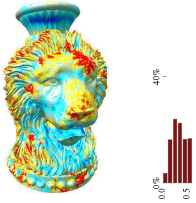
Dist:0.374 Flips:0

Name	Source	Faces	Genus	Cones
vase-lion	Aim@Shape	100000	0	160



RGP Parametrization
TFaces:474

MIQ + Stiffening



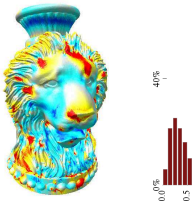
Dist:0.3564 Flips:14

MIQ + IGM

Solver Fail

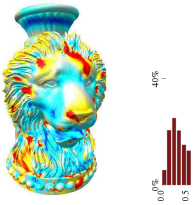
Dist: - Flips: -

MIQ + BD



Dist:0.335 Flips:4

RGP

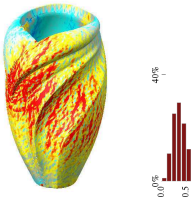


Dist:0.331 Flips:0

Name	Source	Faces	Genus	Cones
vase	Aim@Shape	100000	0	27

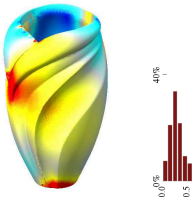
RGP Parametrization
TFaces:75

MIQ + Stiffening



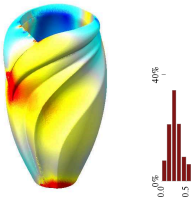
Dist:0.3806 Flips:17

MIQ + IGM



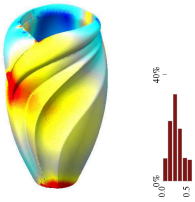
Dist:0.334 Flips:0

MIQ + BD



Dist:0.332 Flips:0

RGP

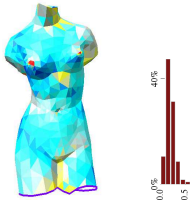


Dist:0.332 Flips:0

Name	Source	Faces	Genus	Cones
venus	Aim@Shape	1396	0	9

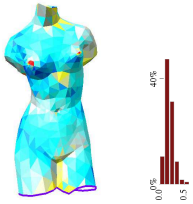
RGP Parametrization
TFaces:27

MIQ + Stiffening



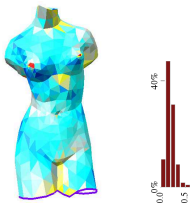
Dist:0.2109 Flips:0

MIQ + IGM



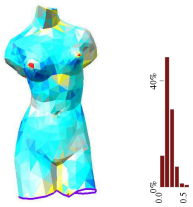
Dist:0.211 Flips:0

MIQ + BD



Dist:0.211 Flips:0

RGP

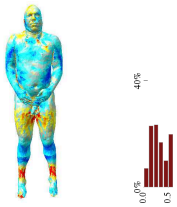


Dist:0.209 Flips:0

Name	Source	Faces	Genus	Cones
vh skin	Aim@Shape	58502	79	453

RGP Parametrization
TFaces:1863

MIQ + Stiffening



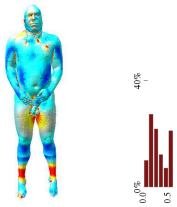
Dist:0.2824 Flips:384

MIQ + IGM

Solver Fail

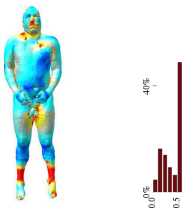
Dist: - Flips: -

MIQ + BD



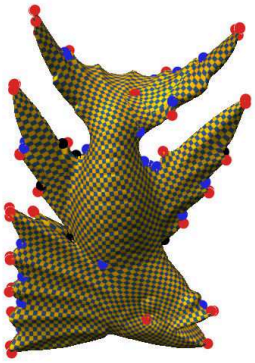
Dist:0.261 Flips:187

RGP



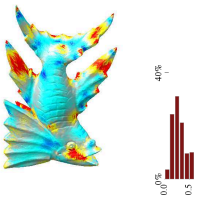
Dist:0.305 Flips:1

Name	Source	Faces	Genus	Cones
woodenfish	Aim@Shape	34910	0	94



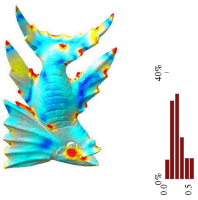
RGP Parametrization
TFaces:276

MIQ + Stiffening



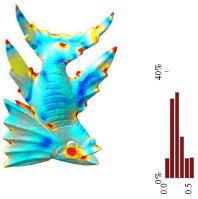
Dist:0.3138 Flips:0

MIQ + IGM



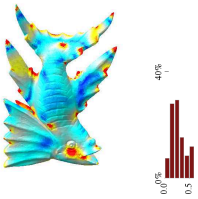
Dist:0.298 Flips:0

MIQ + BD



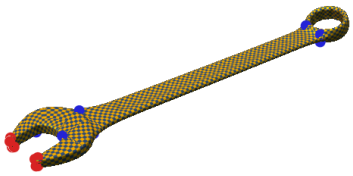
Dist:0.296 Flips:0

RGP



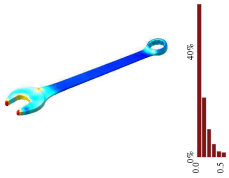
Dist:0.295 Flips:0

Name	Source	Faces	Genus	Cones
wrench	Aim@Shape	50000	1	20



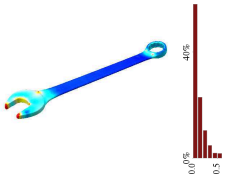
RGP Parametrization
TFaces:60

MIQ + Stiffening



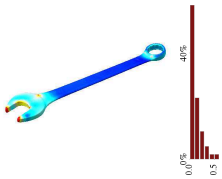
Dist:0.1614 Flips:0

MIQ + IGM



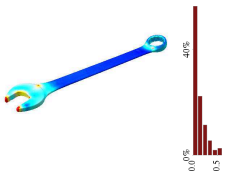
Dist:0.16 Flips:0

MIQ + BD



Dist:0.16 Flips:0

RGP

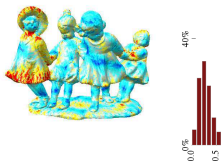


Dist:0.16 Flips:0

Name	Source	Faces	Genus	Cones
dancing children	Aim@Shape	100000	8	212

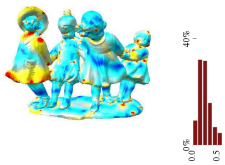
RGP Parametrization
TFaces:678

MIQ + Stiffening



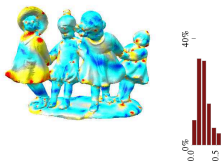
Dist:0.2876 Flips:4

MIQ + IGM



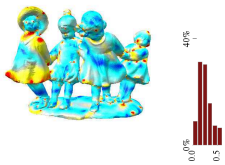
Dist:0.267 Flips:0

MIQ + BD



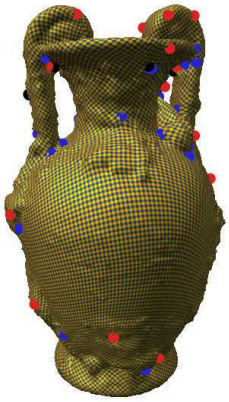
Dist:0.266 Flips:0

RGP



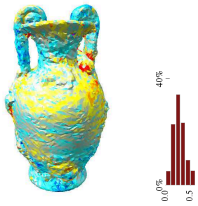
Dist:0.264 Flips:0

Name	Source	Faces	Genus	Cones
amphora	Aim@Shape	26620	2	88



RGP Parametrization
TFaces:297

MIQ + Stiffening



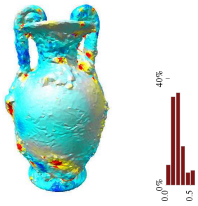
Dist:0.2972 Flips:45

MIQ + IGM

Solver Fail

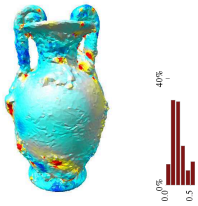
Dist: - Flips: -

MIQ + BD



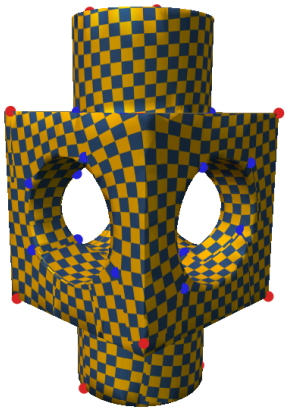
Dist:0.276 Flips:30

RGP



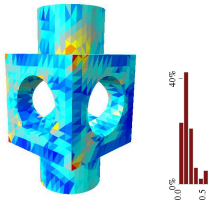
Dist:0.27 Flips:0

Name	Source	Faces	Genus	Cones
block	Aim@Shape	4272	3	46



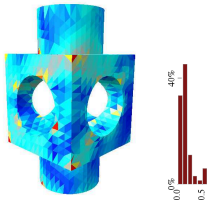
RGP Parametrization
TFaces:150 After Collapse:150

MIQ + Stiffening



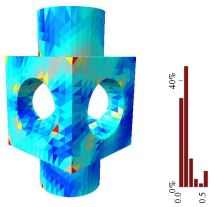
Dist:0.1808 Flips:0

MIQ + IGM



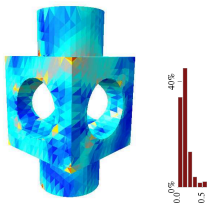
Dist:0.162 Flips:0

MIQ + BD



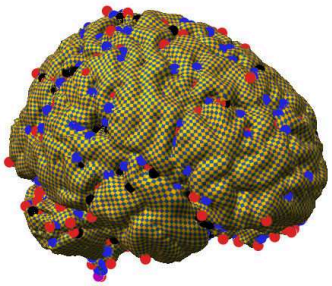
Dist:0.162 Flips:0

RGP



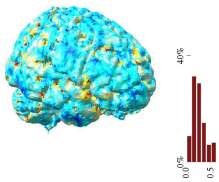
Dist:0.153 Flips:0

Name	Source	Faces	Genus	Cones
brain	Aim@Shape	100000	57	1369



RGP Parametrization
TFaces:4443 After Collapse:4429 Inserted cones:2

MIQ + Stiffening



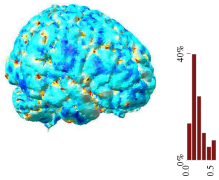
Dist:0.2531 Flips:135

MIQ + IGM

Solver Fail

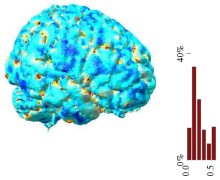
Dist: - Flips: -

MIQ + BD



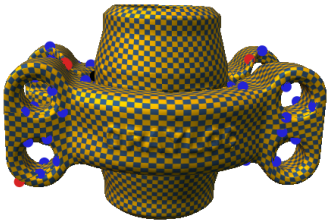
Dist:0.237 Flips:60

RGP



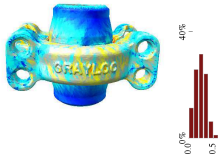
Dist:0.232 Flips:0

Name	Source	Faces	Genus	Cones
grayloc	Aim@Shape	68580	9	95



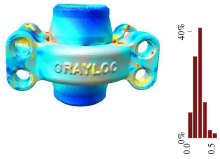
RGP Parametrization
TFaces:333 After Collapse:331

MIQ + Stiffening



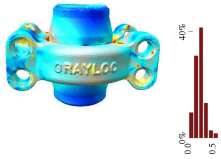
Dist:0.2598 Flips:9

MIQ + IGM



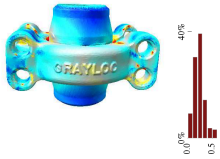
Dist:0.241 Flips:0

MIQ + BD



Dist:0.241 Flips:2

RGP

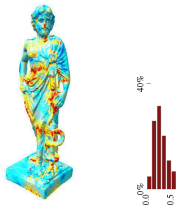


Dist:0.239 Flips:0

Name	Source	Faces	Genus	Cones
greek sculpture	Aim@Shape	50000	4	112

RGP Parametrization
TFaces:354 After Collapse:353

MIQ + Stiffening



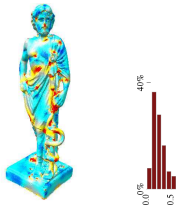
Dist:0.3027 Flips:13

MIQ + IGM

Solver Fail

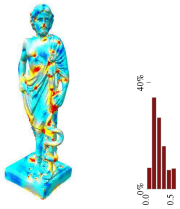
Dist: - Flips: -

MIQ + BD



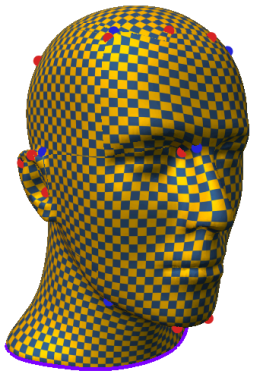
Dist:0.277 Flips:2

RGP



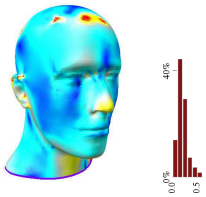
Dist:0.273 Flips:0

Name	Source	Faces	Genus	Cones
mannequin mc	Aim@Shape	109352	0	30



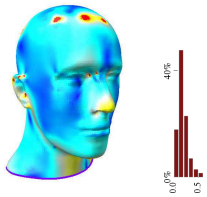
RGP Parametrization
TFaces:87

MIQ + Stiffening



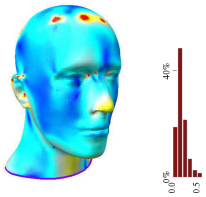
Dist:0.222 Flips:0

MIQ + IGM



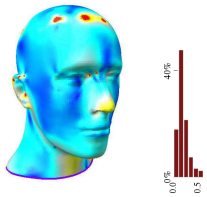
Dist:0.217 Flips:0

MIQ + BD



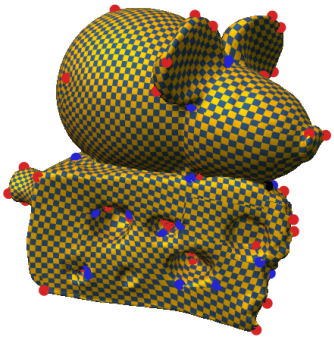
Dist:0.216 Flips:0

RGP



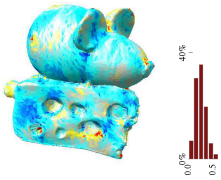
Dist:0.216 Flips:0

Name	Source	Faces	Genus	Cones
mouse	Aim@Shape	28708	0	81



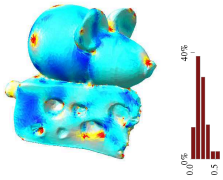
RGP Parametrization
TFaces:237

MIQ + Stiffening



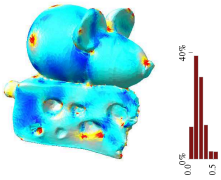
Dist:0.2588 Flips:3

MIQ + IGM



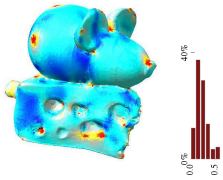
Dist:0.24 Flips:0

MIQ + BD



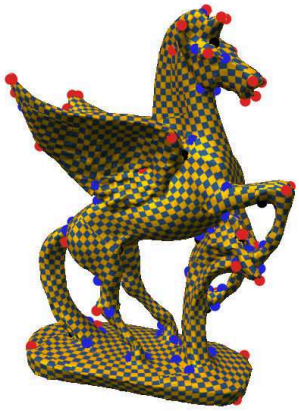
Dist:0.238 Flips:0

RGP



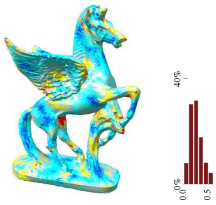
Dist:0.236 Flips:0

Name	Source	Faces	Genus	Cones
pegaso	Aim@Shape	30658	6	131



RGP Parametrization
TFaces:423 After Collapse:422

MIQ + Stiffening



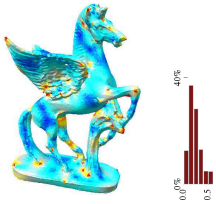
Dist:0.2694 Flips:10

MIQ + IGM

Solver Fail

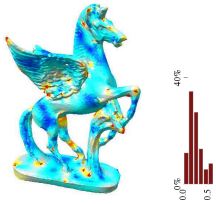
Dist: - Flips: -

MIQ + BD



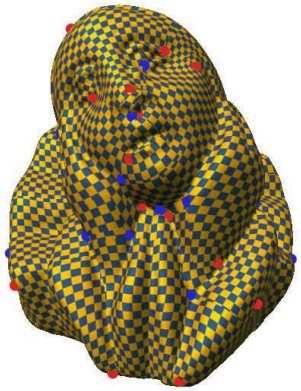
Dist:0.25 Flips:3

RGP



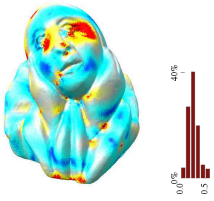
Dist:0.246 Flips:0

Name	Source	Faces	Genus	Cones
pierrot	Aim@Shape	99970	0	58



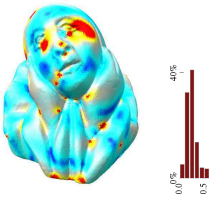
RGP Parametrization
TFaces:168

MIQ + Stiffening



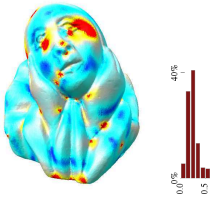
Dist:0.2808 Flips:0

MIQ + IGM



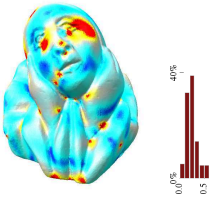
Dist:0.276 Flips:0

MIQ + BD



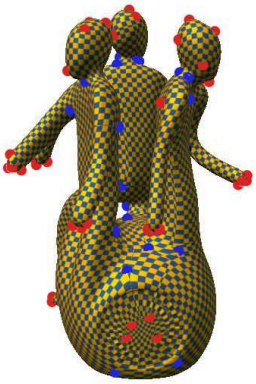
Dist:0.275 Flips:0

RGP



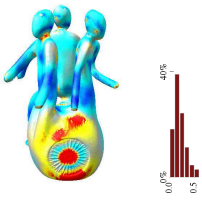
Dist:0.275 Flips:0

Name	Source	Faces	Genus	Cones
uu-memento	Aim@Shape	99932	0	107



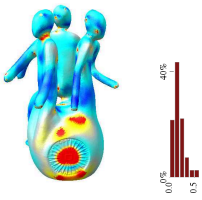
RGP Parametrization
TFaces:315 After Collapse:313

MIQ + Stiffening



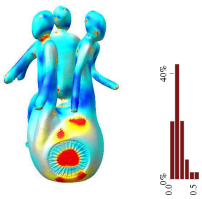
Dist:0.2433 Flips:0

MIQ + IGM



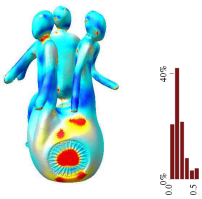
Dist:0.233 Flips:0

MIQ + BD



Dist:0.232 Flips:0

RGP



Dist:0.231 Flips:0

- MIQ + Stiffening : David Bommes et Al. *Mixed-integer Quadrangulation*, Siggraph 2009
  Percentage of locally bijective solution 62.28 %
- MIQ + IGM : David Bommes et Al. *Integer-grid Maps for Reliable Quad Meshing*, Siggraph 2013
  Percentage of locally bijective solution 75.65 %
- MIQ + BD: Yaron Lipman *Bounded Distortion Mapping Spaces for Triangular Meshes*, Siggraph 2012
  Percentage of locally bijective solution 77.19 %
- Proposed method
  Percentage of locally bijective solution 99.13 %

Notice that there are cases when the solver returns a useful partial solution with foldovers, while in other cases it does not.