4. Polygonal representations of maps

In this section we give the polygonal representation of all maps on up to six edges. To expedite searching through the collection, we have indexed the maps in a variety of ways. These are given in the subsections, and include

1. Indexed by genus, number of edges, number of vertices.
2. Indexed by number of edges, associated graph, genus, number of vertices.

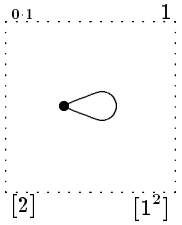
At the foot of each map, the lefthand partition is the vertex degree sequence and the righthand partition is the face degree sequence. The integer in the top right corner of each map is the number of distinct rootings of the map and a serial number is given in the top left corner.

4.1. Orientable: indexed by genus, edges, vertices

4.1.1. Genus 0

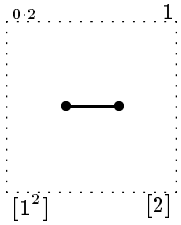
1 edge

1 vertex



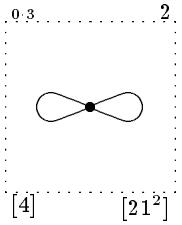
1 edge

2 vertices



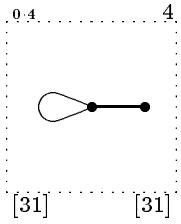
2 edges

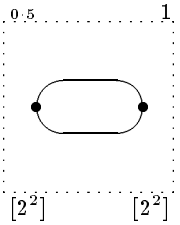
1 vertex



2 edges

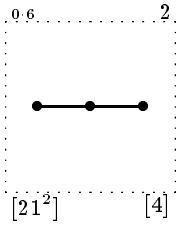
2 vertices





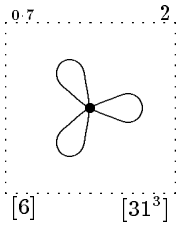
2 edges

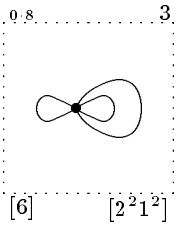
3 vertices



3 edges

1 vertex

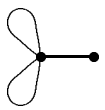




3 edges

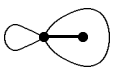
2 vertices

0.9 — 6



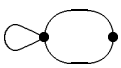
[51] [41²]

0.10 — 6



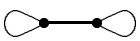
[51] [321]

0.11 — 6



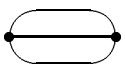
[42] [321]

0.12 — 3



[3²] [41²]

0.13 — 1



[3²] [2³]

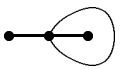
3 edges

3 vertices

0.14 — 6

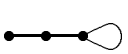
[41²] [51]

0.15 — 3



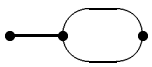
[41²] [3²]

0.16 — 6



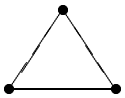
[321] [51]

0.17 — 6



[321] [42]

0.18 — 1

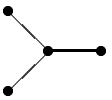


[2³] [3²]

3 edges

4 vertices

0.19 — 2



[31³] [6]

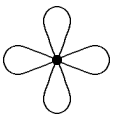
0.20 — 3

[2²1²] [6]

4 edges

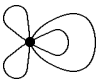
1 vertex

0.21 — 2



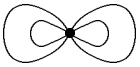
[8] [41⁴]

0.22 — 8



[8] [321³]

0.23 — 4

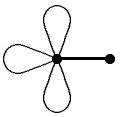


[8] [2³1²]

4 edges

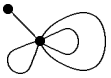
2 vertices

0.24 — 8



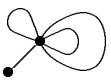
[71] [51³]

0.25 — 8



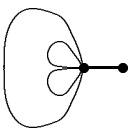
[71] [421²]

0.26 — 8



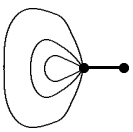
[71] [421²]

0.27 — 8



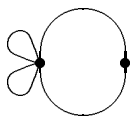
[71] [3²1²]

0.28 — 8



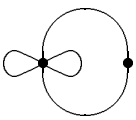
[71] [32²1]

0.29 — 8



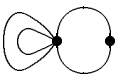
[62] [421²]

0.30 — 4



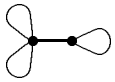
[62] [3²1²]

0.31 — 8



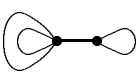
[62] [32²1]

0.32 — 8



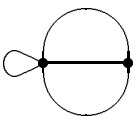
[53] [51³]

0.33 — 8



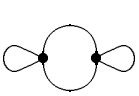
[53] [421²]

0.34 — 8



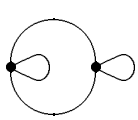
[53] [32²1]

0.35 — 4



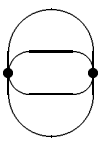
[4²] [421²]

0.36 — 4



[4²] [3²1²]

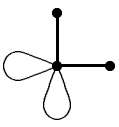
0.37 — 1

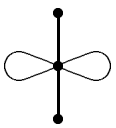


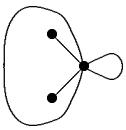
[4²] [2⁴]

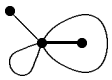
4 edges

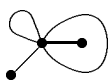
3 vertices

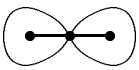
0.38 8  $[61^2]$ $[61^2]$

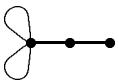
0.39 4  $[61^2]$ $[61^2]$

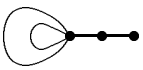
0.40 8  $[61^2]$ $[521]$

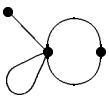
0.41 8  $[61^2]$ $[431]$

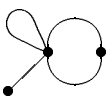
0.42 8  $[61^2]$ $[431]$

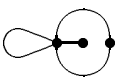
0.43 4  $[61^2]$ $[3^22]$

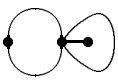
0.44 8  $[521]$ $[61^2]$

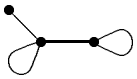
0.45 8  $[521]$ $[521]$

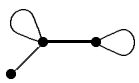
0.46 8  $[521]$ $[521]$

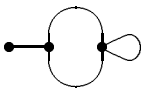
0.47 8  $[521]$ $[521]$

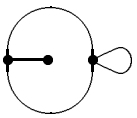
0.48 8  $[521]$ $[431]$

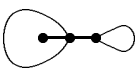
0.49 8  $[521]$ $[3^22]$

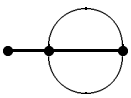
0.50 8  $[431]$ $[61^2]$

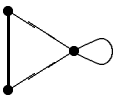
0.51 8  $[431]$ $[61^2]$

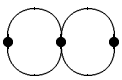
0.52 8  $[431]$ $[521]$

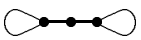
0.53 8  $[431]$ $[431]$

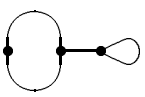
0.54 8  $[431]$ $[431]$

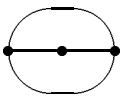
0.55 8  $[431]$ $[42^2]$

0.56 8  $[42^2]$ $[431]$

0.57 4  $[42^2]$ $[42^2]$

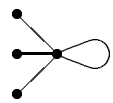
0.58 4  $[3^22]$ $[61^2]$

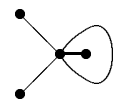
0.59 8  $[3^22]$ $[521]$

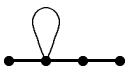
0.60 4  $[3^22]$ $[3^22]$

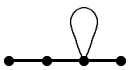
4 edges

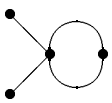
4 vertices

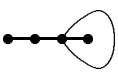
0.61 8  $[51^3]$ $[71]$

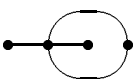
0.62 8  $[51^3]$ $[53]$

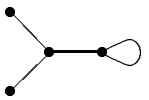
0.63 8  $[421^2]$ $[71]$

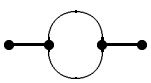
0.64 8  $[421^2]$ $[71]$

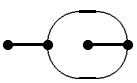
0.65 8  $[421^2]$ $[62]$

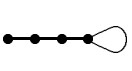
0.66 8  $[421^2]$ $[53]$

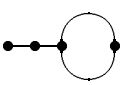
0.67 4  $[421^2]$ $[4^2]$

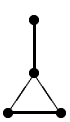
0.68 8  $[3^21^2]$ $[71]$

0.69 4  $[3^21^2]$ $[62]$

0.70 4  $[3^21^2]$ $[4^2]$

0.71 8  $[32^21]$ $[71]$

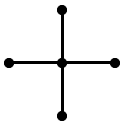
0.72 8  $[32^21]$ $[62]$

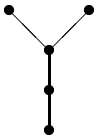
0.73 8  $[32^21]$ $[53]$

0.74 1 $[2^4]$ $[4^2]$

4 edges

5 vertices

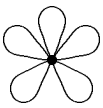
0.75 2  $[41^4]$ [8]

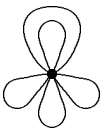
0.76 8  $[321^3]$ [8]

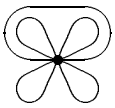
0.77 4 $[2^31^2]$ [8]

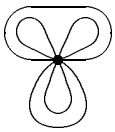
5 edges

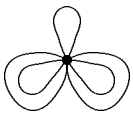
1 vertex

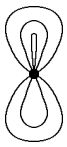
0.78 2  [10] $[51^5]$

0.79 10  [10] $[421^4]$

0.80 5  [10] $[3^21^4]$

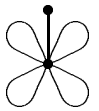
0.81 10  [10] $[32^21^3]$

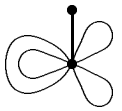
0.82 10  [10] $[32^21^3]$

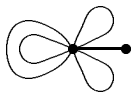
0.83 5  [10] $[2^41^2]$

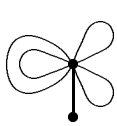
5 edges

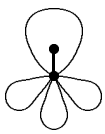
2 vertices

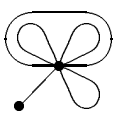
0.84 10  [91] $[61^4]$

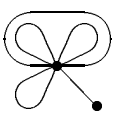
0.85 10  [91] $[521^3]$

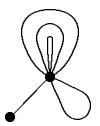
0.86 10  [91] $[521^3]$

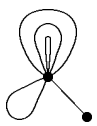
0.87 10  [91] $[521^3]$

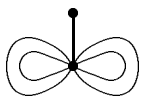
0.88 10  [91] $[431^3]$

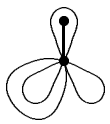
0.89 10  [91] $[431^3]$

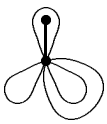
0.90 10  [91] $[431^3]$

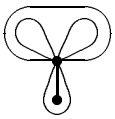
0.91 10  [91] $[42^21^2]$

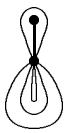
0.92 10  [91] $[42^21^2]$

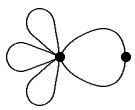
0.93 10  [91] $[42^21^2]$

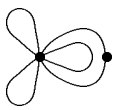
0.94 10  [91] $[3^221^2]$

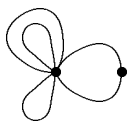
0.95 10  [91] $[3^221^2]$

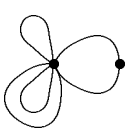
0.96 10  [91] $[3^221^2]$

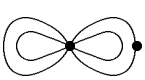
0.97 10  [91] $[32^31]$

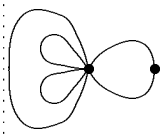
0.98 10  [82] $[521^3]$

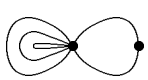
0.99 10  [82] $[431^3]$

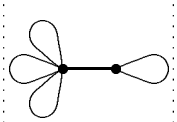
0.100 10  [82] $[42^21^2]$

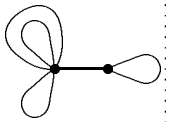
0.101 10  [82] $[42^21^2]$

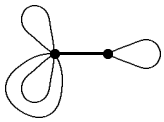
0.102 10  [82] $[3^221^2]$

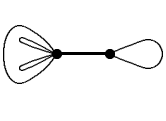
0.103 10  [82] $[3^221^2]$

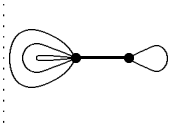
0.104 10  [82] $[32^31]$

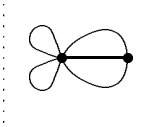
0.105 10  [73] $[61^4]$

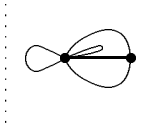
0.106 10  [73] $[521^3]$

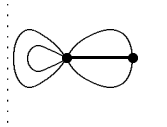
0.107 10  [73] [521^3]

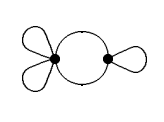
0.108 10  [73] [431^3]

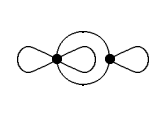
0.109 10  [73] [42^21^2]

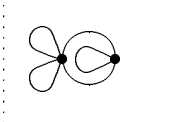
0.110 10  [73] [42^21^2]

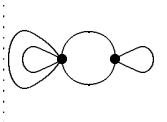
0.111 10  [73] [3^221^2]

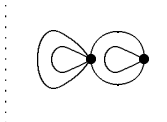
0.112 10  [73] [32^31]

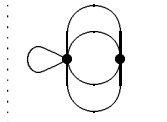
0.113 10  [64] [521^3]

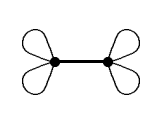
0.114 10  [64] [431^3]

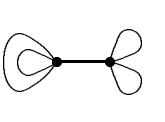
0.115 10  [64] [431^3]

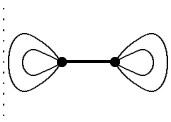
0.116 10  [64] [42^21^2]

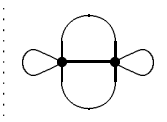
0.117 10  [64] [3^221^2]

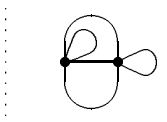
0.118 10  [64] [32^31]

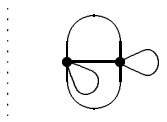
0.119 5  [5^2] [61^4]

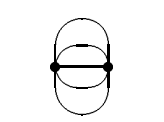
0.120 10  [5^2] [521^3]

0.121 5  [5^2] [42^21^2]

0.122 5  [5^2] [42^21^2]

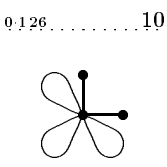
0.123 5  [5^2] [3^221^2]

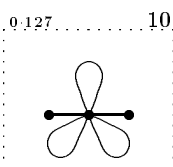
0.124 5  [5^2] [3^221^2]

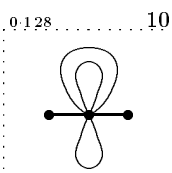
0.125 1  [5^2] [2^5]

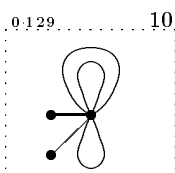
5 edges

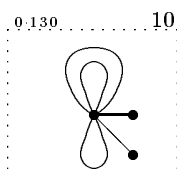
3 vertices

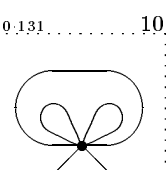
0.126 10  [81^2] [71^3]

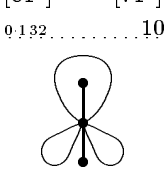
0.127 10  [81^2] [71^3]

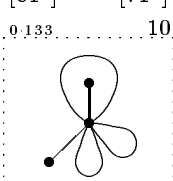
0.128 10  [81^2] [621^2]

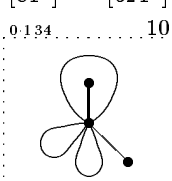
0.129 10  [81^2] [621^2]

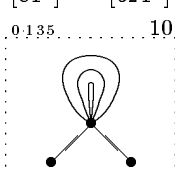
0.130 10  [81^2] [621^2]

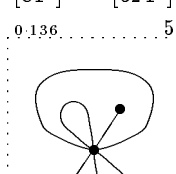
0.131 10  [81^2] [531^2]

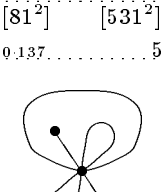
0.132 10  [81^2] [531^2]

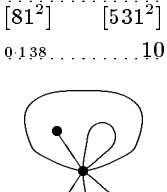
0.133 10  [81^2] [531^2]

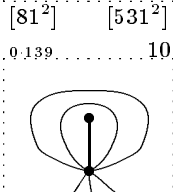
0.134 10  [81^2] [531^2]

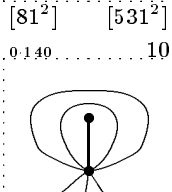
0.135 10  [81^2] [52^21]

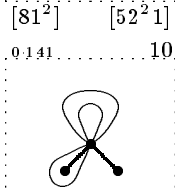
0.136 5  [81^2] [4^21^2]

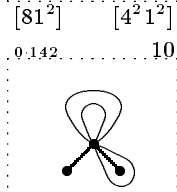
0.137 5  [81^2] [4^21^2]

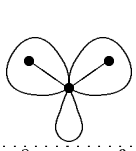
0.138 10  [81^2] [4^21^2]

0.139 10  [81^2] [4321]

0.140 10  [81^2] [4321]

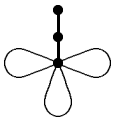
0.141 10  [81^2] [4321]

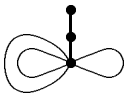
0.142 10  [81^2] [4321]

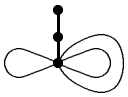
0.143 10

$[81^2]$ $[3^31]$

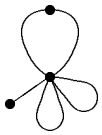
0.144 5

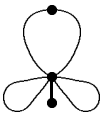
$[81^2]$ $[3^22^2]$

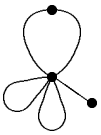
0.145 10

$[721]$ $[71^3]$

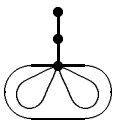
0.146 10

$[721]$ $[621^2]$

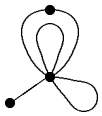
0.147 10

$[721]$ $[621^2]$

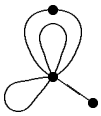
0.148 10

$[721]$ $[621^2]$

0.149 10

$[721]$ $[621^2]$

0.150 10

$[721]$ $[621^2]$

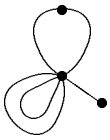
0.151 10

$[721]$ $[531^2]$

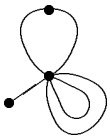
0.152 10

$[721]$ $[531^2]$

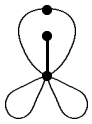
0.153 10

$[721]$ $[531^2]$

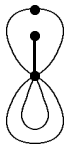
0.154 10

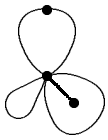
$[721]$ $[52^21]$

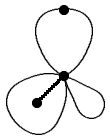
0.155 10

$[721]$ $[52^21]$

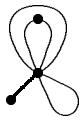
0.156 10

$[721]$ $[52^21]$

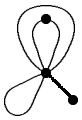
0.157 10

$[721]$ $[4^21^2]$

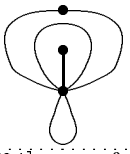
0.158 10

$[721]$ $[4321]$

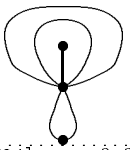
0.159 10

$[721]$ $[4321]$

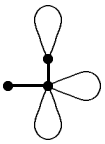
0.160 10

$[721]$ $[4321]$

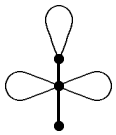
0.161 10

$[721]$ $[4321]$

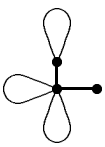
0.162 10

$[721]$ $[4321]$

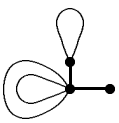
0.163 10

$[721]$ $[3^31]$

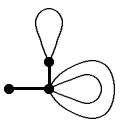
0.164 10

$[721]$ $[3^22^2]$

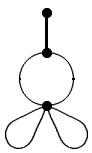
0.165 10

$[631]$ $[71^3]$

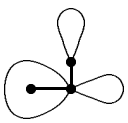
0.166 10

$[631]$ $[71^3]$

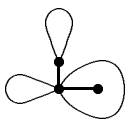
0.167 10

$[631]$ $[71^3]$

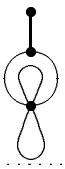
0.168 10

$[631]$ $[621^2]$

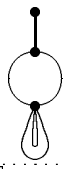
0.169 10

$[631]$ $[621^2]$

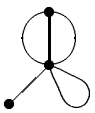
0.170 10

$[631]$ $[621^2]$

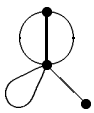
0.171 10

$[631]$ $[531^2]$

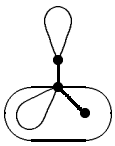
0.172 10

$[631]$ $[531^2]$

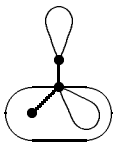
0.173 10

$[631]$ $[531^2]$

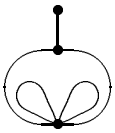
0.174 10

$[631]$ $[52^21]$

0.175 10

$[631]$ $[52^21]$

0.176 10

$[631]$ $[52^21]$

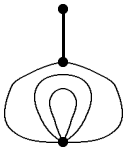
0.177 10

$[631]$ $[4^21^2]$

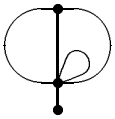
0.178 10

$[631]$ $[4^21^2]$

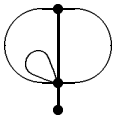
0.179 10

$[631]$ $[4^21^2]$

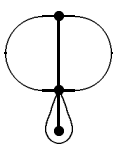
0.180 10

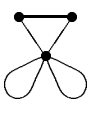
$[631]$ $[4321]$

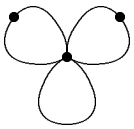
0.181 10

$[631]$ $[4321]$

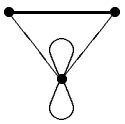
0.182 10

$[631]$ $[4321]$

0.183 10

$[631]$ $[4321]$

0.184 10

$[631]$ $[3^22^2]$

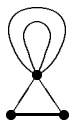
0.185 10

$[62^2]$ $[531^2]$

0.186 10

$[62^2]$ $[52^21]$

0.187 5

$[62^2]$ $[4^21^2]$

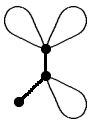
0.188 10

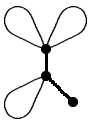
$[62^2]$ $[4321]$

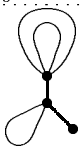
0.189 10

$[62^2]$ $[4321]$

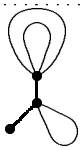
0.190 5

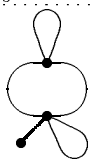
$[62^2]$ $[3^22^2]$

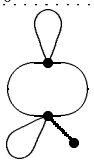
0.191 10

$[541]$ $[71^3]$

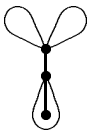
0.192 10

$[541]$ $[71^3]$

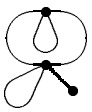
0.193 10

$[541]$ $[621^2]$

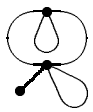
0.194 10

$[541]$ $[621^2]$

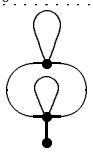
0.195 10

$[541]$ $[621^2]$

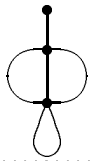
0.196 10

$[541]$ $[621^2]$

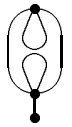
0.197 10

$[541]$ $[531^2]$

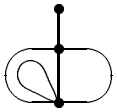
0.198 10

$[541]$ $[531^2]$

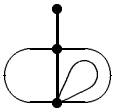
0.199 10

$[541]$ $[531^2]$

0.200 10

$[541]$ $[531^2]$

0.201 10

$[541]$ $[52^21]$

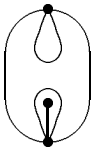
0.202 10

$[541]$ $[4^21^2]$

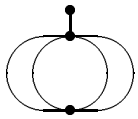
0.203 10

$[541]$ $[4321]$

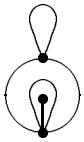
0.204 10

$[541]$ $[4321]$

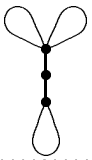
0.205 10

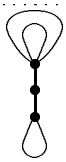
$[541]$ $[4321]$

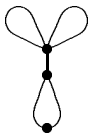
0.206 10

$[541]$ $[4321]$

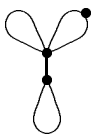
0.207 10

$[541]$ $[42^3]$

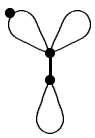
0.208 10

$[541]$ $[3^31]$

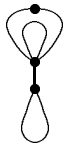
0.209 10

$[532]$ $[71^3]$

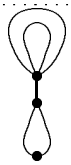
0.210 10

$[532]$ $[621^2]$

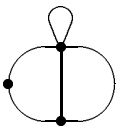
0.211 10

$[532]$ $[621^2]$

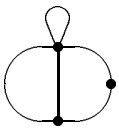
0.212 10

$[532]$ $[621^2]$

0.213 10

$[532]$ $[621^2]$

0.214 10

$[532]$ $[531^2]$

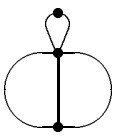
0.215 10

$[532]$ $[52^21]$

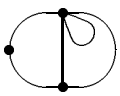
0.216 10

$[532]$ $[4321]$

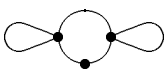
0.217 10

$[532]$ $[4321]$

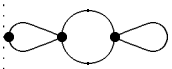
0.218 10

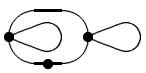
$[532]$ $[4321]$

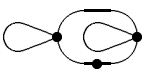
0.219 10

$[532]$ $[42^3]$

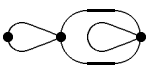
0.220 10

$[532]$ $[3^31]$

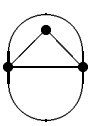
0.221 10

$[4^22]$ $[531^2]$

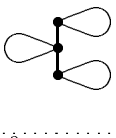
0.222 10

$[4^22]$ $[52^21]$

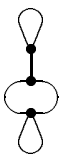
0.223 5

$[4^22]$ $[4^21^2]$

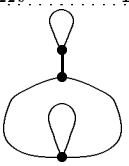
0.224 5

$[4^22]$ $[4^21^2]$

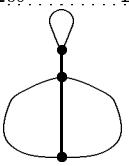
0.225 10

$[4^22]$ $[4321]$

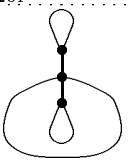
0.226 5

$[4^22]$ $[3^22^2]$

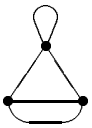
0.227 10

$[43^2]$ $[71^3]$

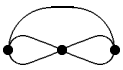
0.228 10

$[43^2]$ $[621^2]$

0.229 10

$[43^2]$ $[531^2]$

0.230 10

$[43^2]$ $[52^21]$

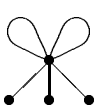
0.231 5

$[43^2]$ $[4^21^2]$

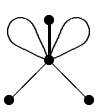
0.232 10

$[43^2]$ $[4321]$

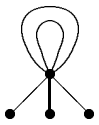
0.233 5

$[43^2]$ $[3^22^2]$

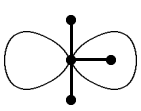
5 edges

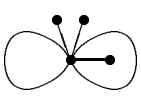
4 vertices

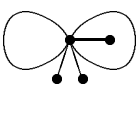
0.234 10

$[71^3]$ $[81^2]$

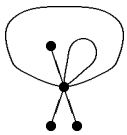
0.235 10

$[71^3]$ $[81^2]$

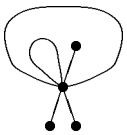
0.236 10

$[71^3]$ $[721]$

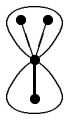
0.237 10

$[71^3]$ $[631]$

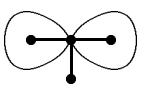
0.238 10

$[71^3]$ $[631]$

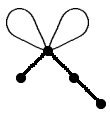
0.239 10

$[71^3]$ $[631]$

0.240 10

$[71^3]$ $[541]$

0.241 10

$[71^3]$ $[541]$

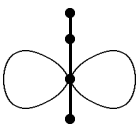
0.242 10

$[71^3]$ $[532]$

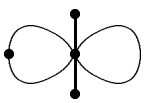
0.243 10

$[71^3]$ $[43^2]$

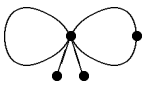
0.244 10

$[621^2]$ $[81^2]$

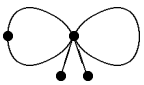
0.245 10

$[621^2]$ $[81^2]$

0.246 10

$[621^2]$ $[81^2]$

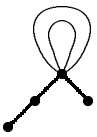
0.247 10

$[621^2]$ $[721]$

0.248 10

$[621^2]$ $[721]$

0.249 10

$[621^2]$ $[721]$

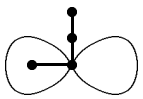
0.250 10

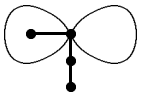
$[621^2]$ $[721]$

0.251 10

$[621^2]$ $[721]$

0.252 10

$[621^2]$ $[631]$

0.253 10

$[621^2]$ $[631]$

0.254 10

$[621^2]$ $[631]$

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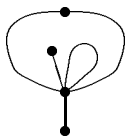
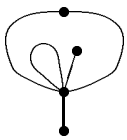

$[621^2]$ $[541]$

0.256 10

$[621^2]$ $[541]$

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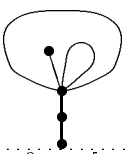
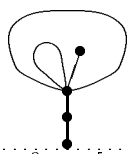

$[621^2]$ $[541]$

0.258 10

$[621^2]$ $[541]$

0.259 10

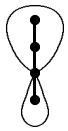
$[621^2]$ $[532]$

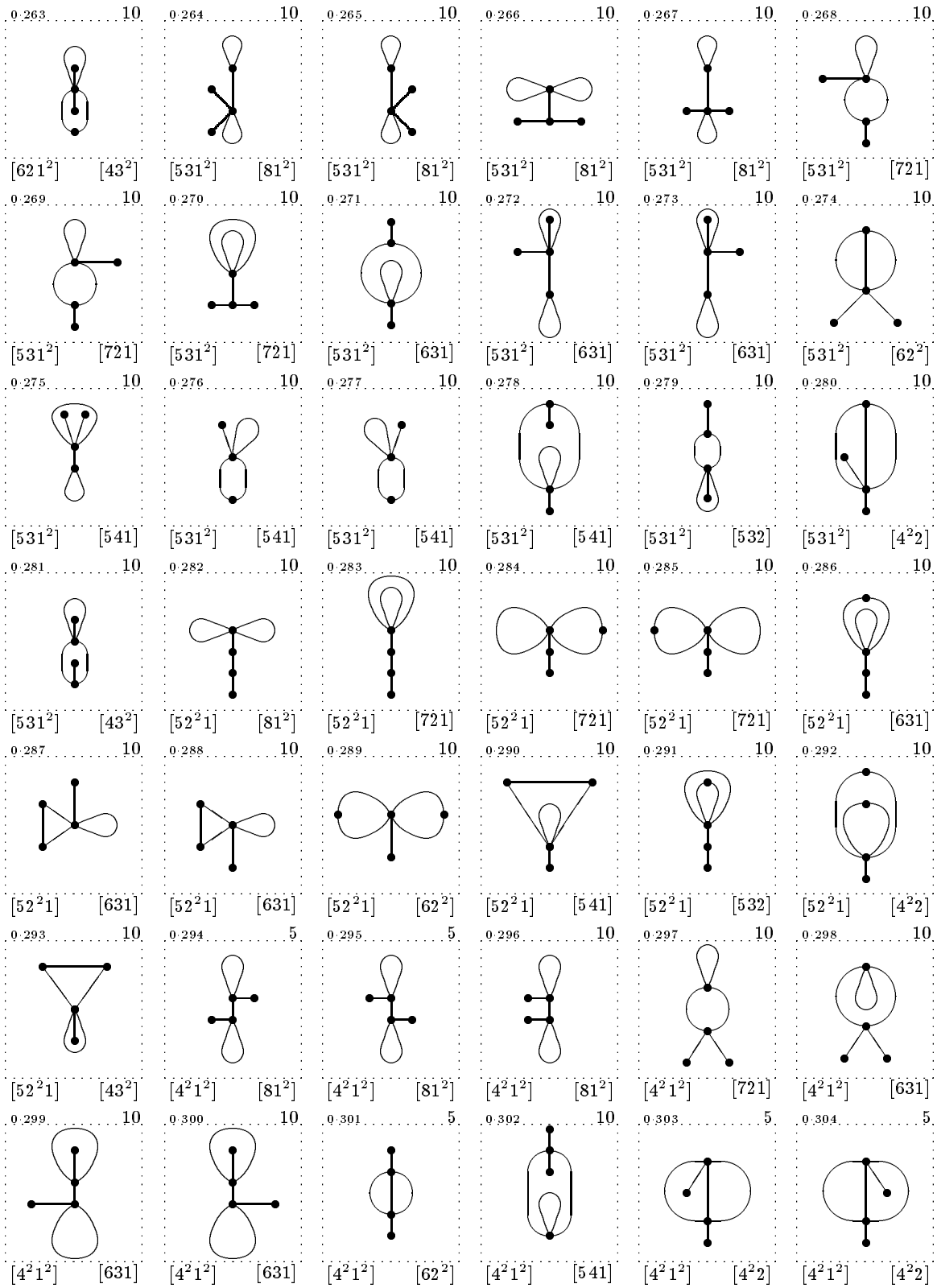
0.260 10

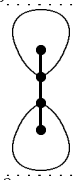
$[621^2]$ $[532]$

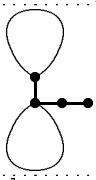
0.261 10

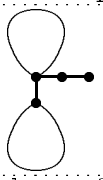
$[621^2]$ $[532]$

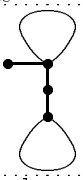
0.262 10

$[621^2]$ $[532]$


0.263 10 [62^21^2] [43^2]
0.264 10 [53^21^2] [81^2]
0.265 10 [53^21^2] [81^2]
0.266 10 [53^21^2] [81^2]
0.267 10 [53^21^2] [81^2]
0.268 10 [53^21^2] [721]
0.269 10 [53^21^2] [721]
0.270 10 [53^21^2] [721]
0.271 10 [53^21^2] [631]
0.272 10 [53^21^2] [631]
0.273 10 [53^21^2] [631]
0.274 10 [53^21^2] [62^2]
0.275 10 [53^21^2] [541]
0.276 10 [53^21^2] [541]
0.277 10 [53^21^2] [541]
0.278 10 [53^21^2] [541]
0.279 10 [53^21^2] [532]
0.280 10 [53^21^2] [4^22]
0.281 10 [53^21^2] [43^2]
0.282 10 [52^21] [81^2]
0.283 10 [52^21] [721]
0.284 10 [52^21] [721]
0.285 10 [52^21] [721]
0.286 10 [52^21] [631]
0.287 10 [52^21] [631]
0.288 10 [52^21] [631]
0.289 10 [52^21] [62^2]
0.290 10 [52^21] [541]
0.291 10 [52^21] [532]
0.292 10 [52^21] [4^22]
0.293 10 [52^21] [43^2]
0.294 5 [4^21^2] [81^2]
0.295 5 [4^21^2] [81^2]
0.296 10 [4^21^2] [81^2]
0.297 10 [4^21^2] [721]
0.298 10 [4^21^2] [631]
0.299 10 [4^21^2] [631]
0.300 10 [4^21^2] [631]
0.301 5 [4^21^2] [62^2]
0.302 10 [4^21^2] [541]
0.303 5 [4^21^2] [4^22]
0.304 5 [4^21^2] [4^22]

0.305 5

$[4^2 1^2]$ $[43^2]$

0.306 10

[4321] $[81^2]$

0.307 10

[4321] $[81^2]$

0.308 10

[4321] $[81^2]$

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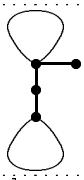
[4321] $[81^2]$

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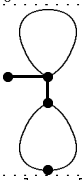
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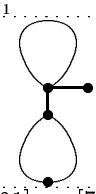
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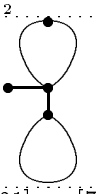
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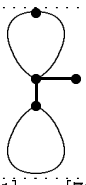
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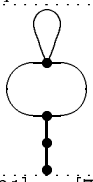
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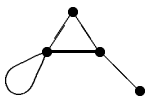
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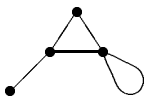
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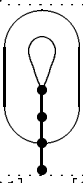
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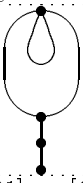
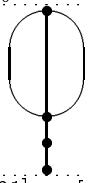
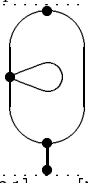

[4321] [631]

0.319 10

[4321] $[62^2]$

0.320 10

[4321] $[62^2]$

0.321 10

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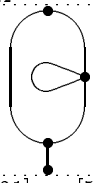
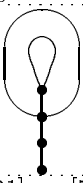
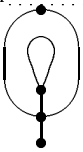
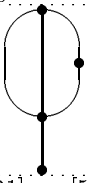
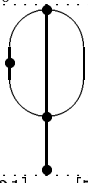
0.322 10

[4321] [541]

0.323 10

[4321] [541]

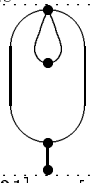
0.324 10

[4321] [541]

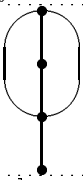
0.325 10

[4321] [532]

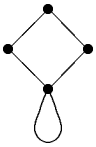
0.326 10

[4321] [532]

0.327 10

[4321] [532]

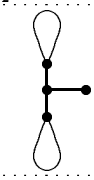
0.328 10

[4321] $[4^2 2]$

0.329 10

[4321] $[43^2]$

0.330 10

$[42^3]$ [541]

0.331 10

$[42^3]$ [532]

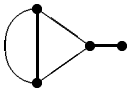
0.332 10

$[3^3 1]$ $[81^2]$

0.333 10

$[3^3 1]$ [721]

0.334 10

$[3^3 1]$ [541]

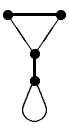
0.335 10

$[3^3 1]$ [532]

0.336 5

$[3^2 2^2]$ $[81^2]$

0.337 10

$[3^2 2^2]$ [721]

0.338 10

$[3^2 2^2]$ [631]

0.339 5

$[3^2 2^2]$ $[62^2]$

0.340 5

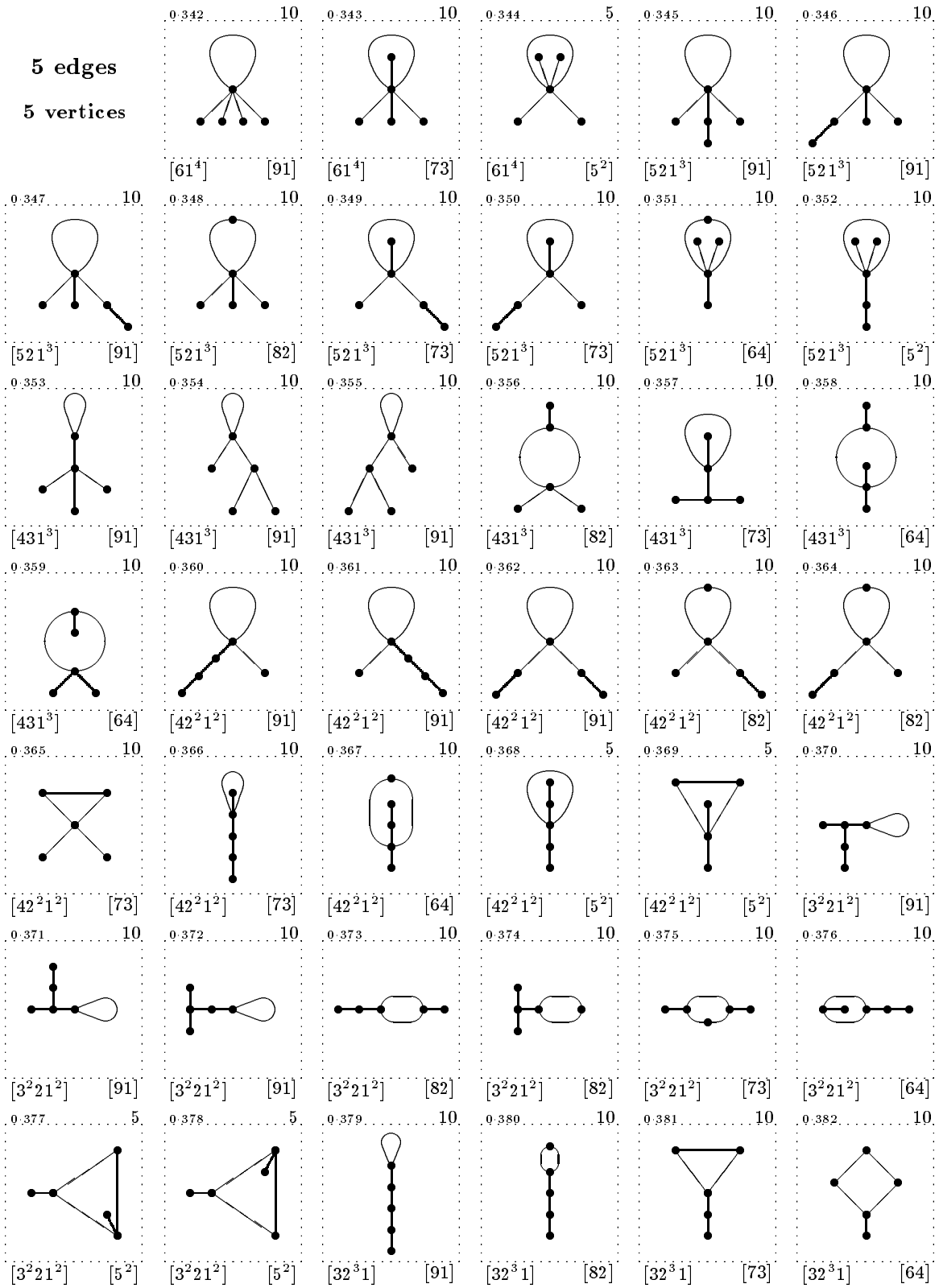
$[3^2 2^2]$ $[4^2 2]$

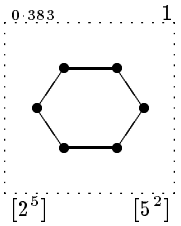
0.341 5

$[3^2 2^2]$ $[43^2]$

5 edges

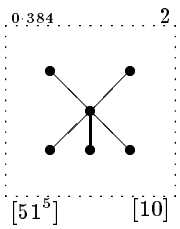
5 vertices

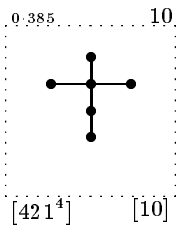


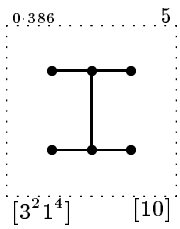


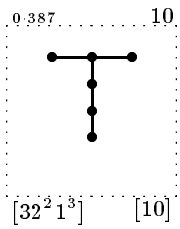
5 edges

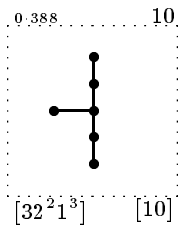
6 vertices

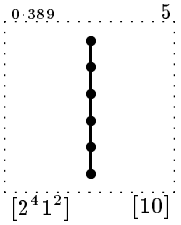












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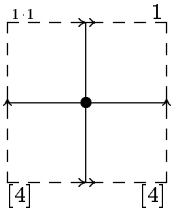
4.1.2. Genus 1

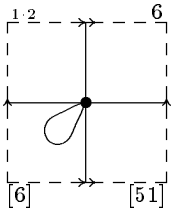
2 edges

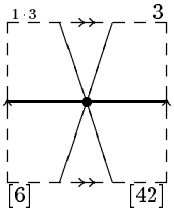
1 vertex

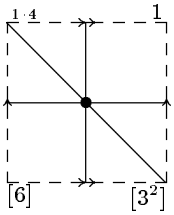


3 edges

1 vertex

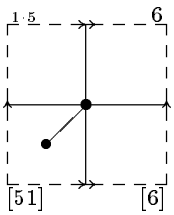


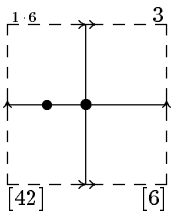


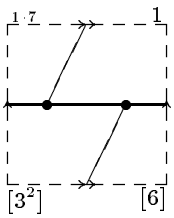


3 edges

2 vertices

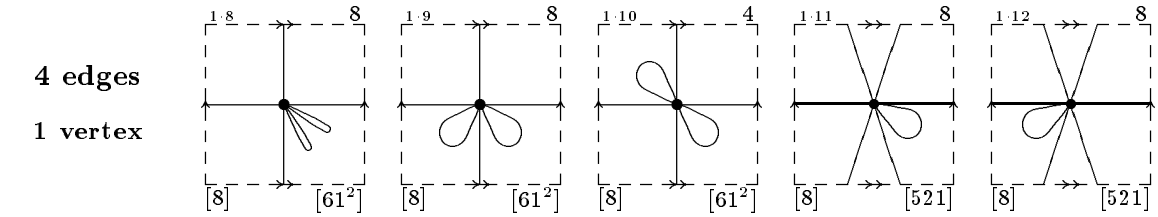


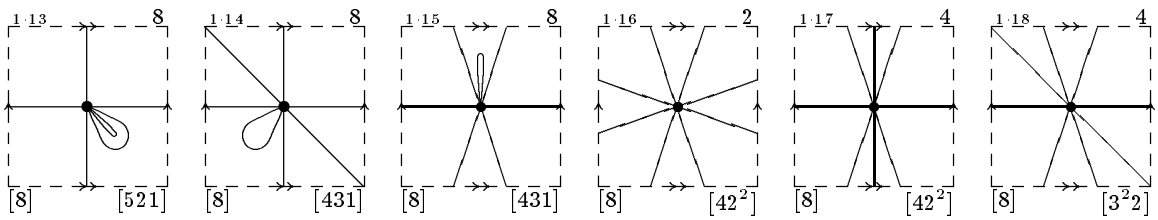




4 edges

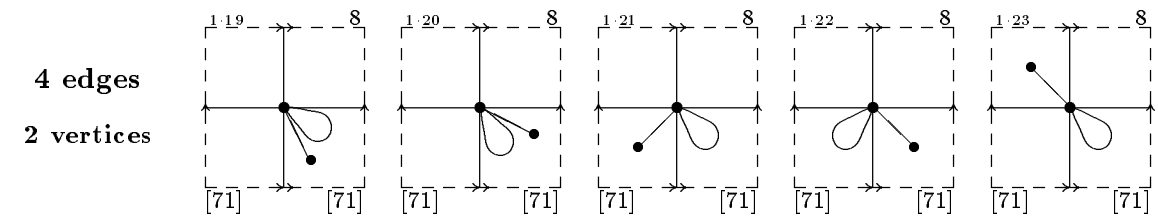
1 vertex

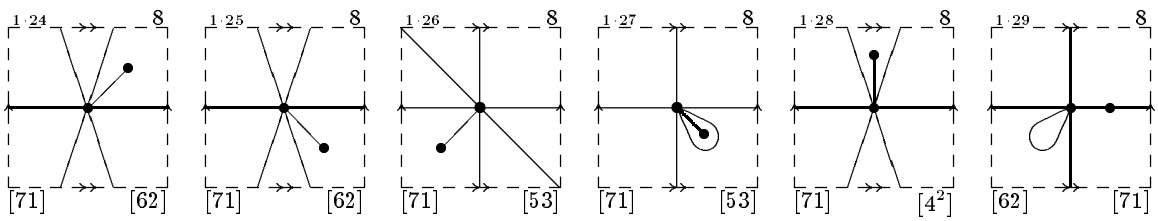


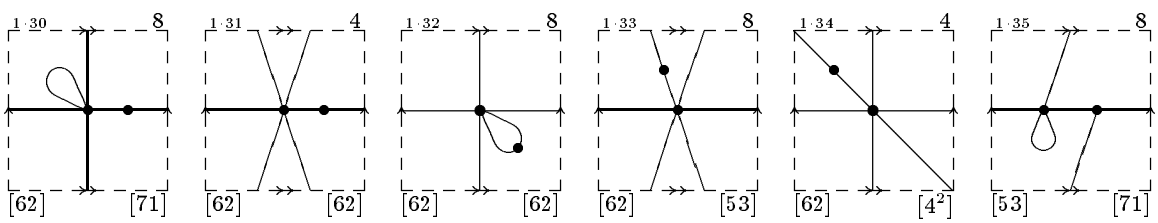


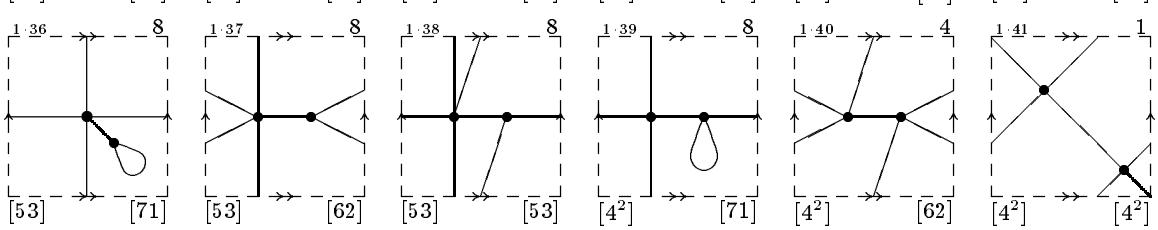
4 edges

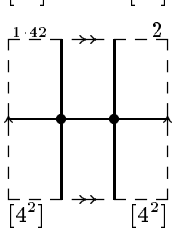
2 vertices





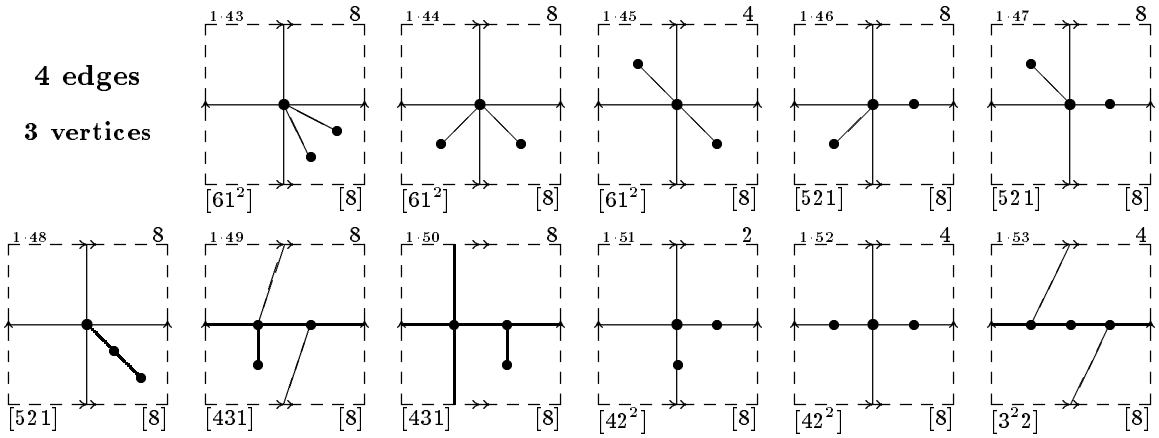






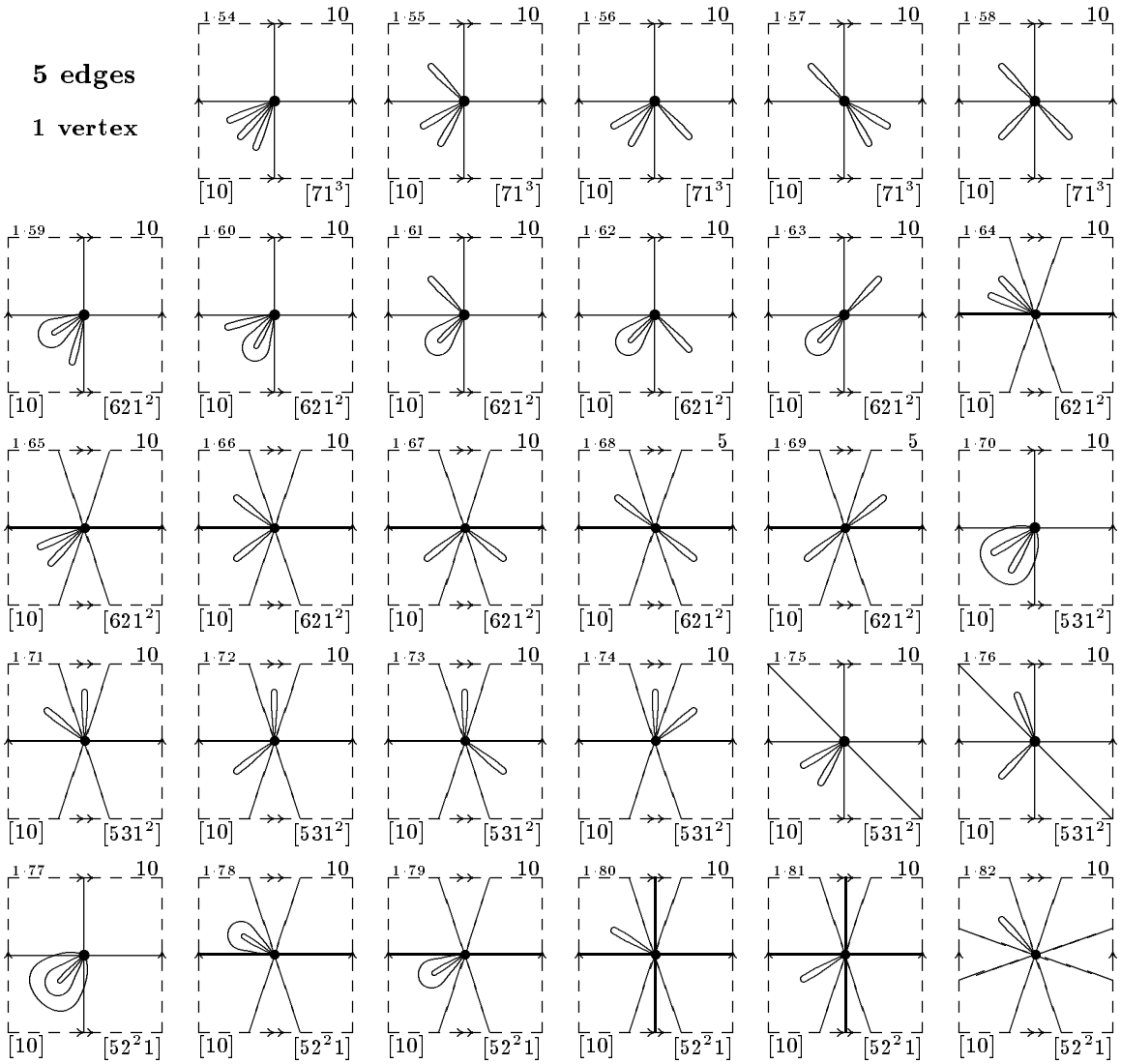
4 edges

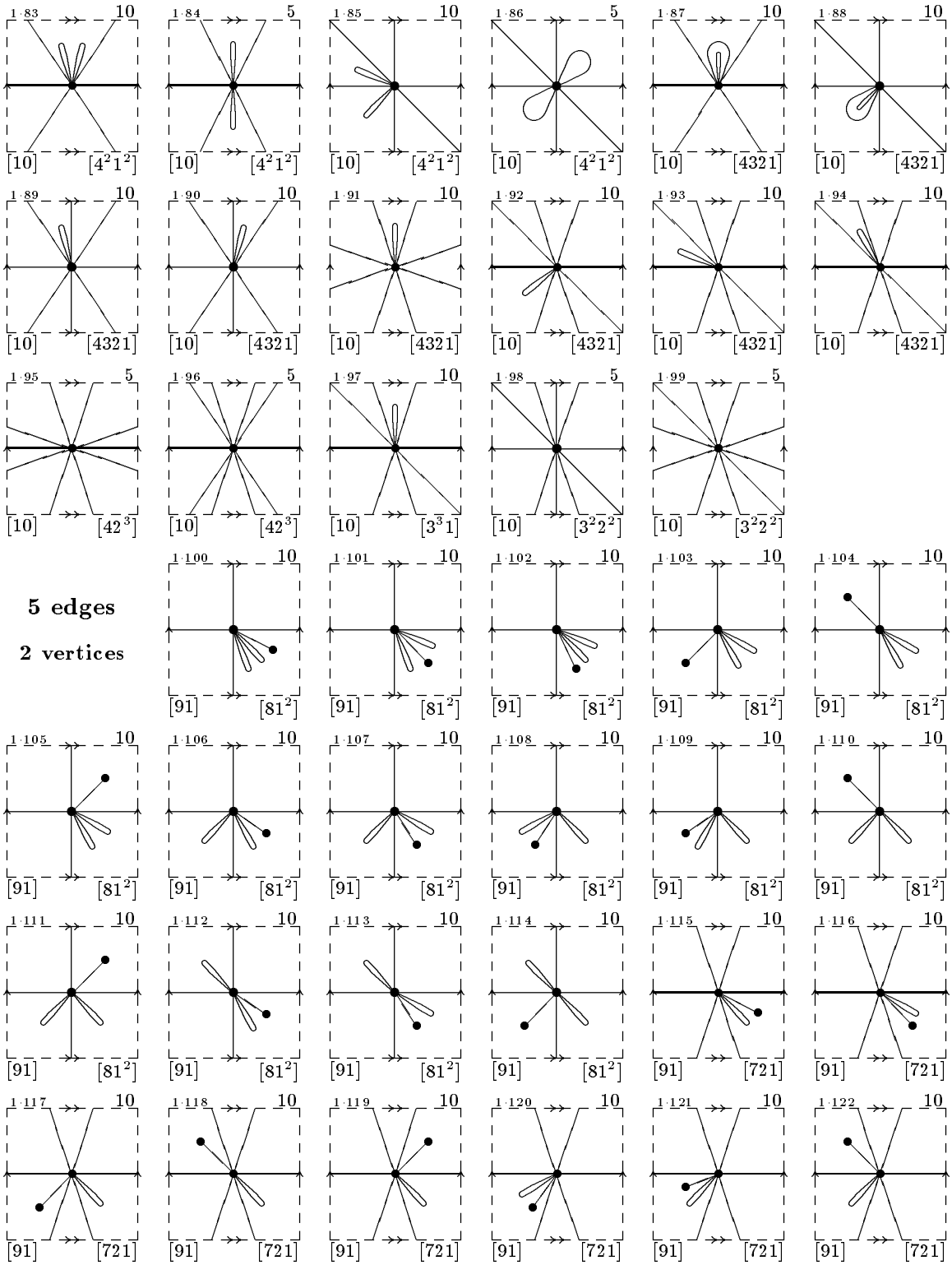
3 vertices



5 edges

1 vertex

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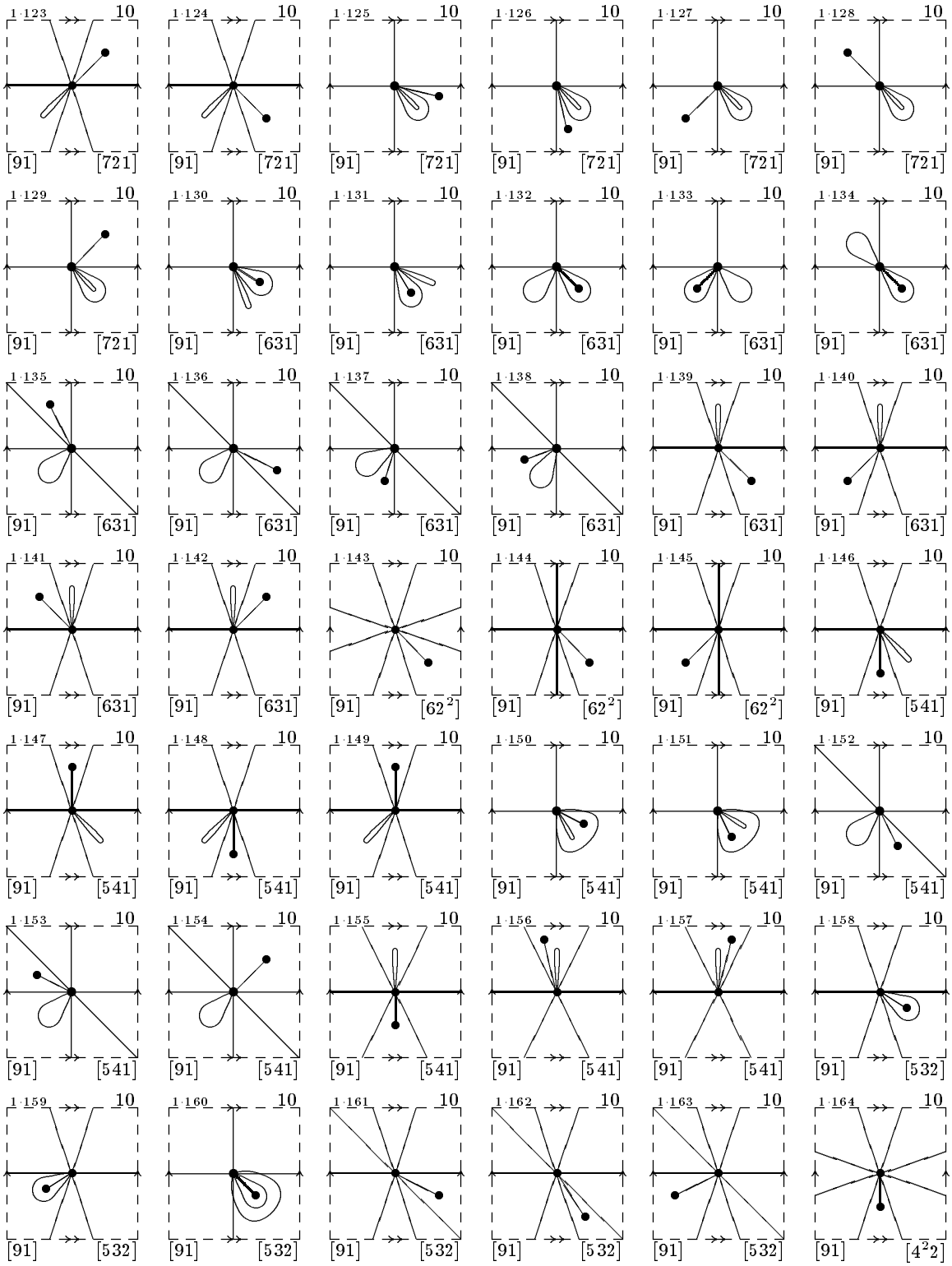
1·84 5 [10] [4²1²]
1·85 10 [10] [4²1²]
1·86 5 [10] [4²1²]
1·87 10 [10] [4321]
1·88 10 [10] [4321]
1·89 10 [10] [4321]
1·90 10 [10] [4321]
1·91 10 [10] [4321]
1·92 10 [10] [4321]
1·93 10 [10] [4321]
1·94 10 [10] [4321]
1·95 5 [10] [42³]
1·96 5 [10] [42³]
1·97 10 [10] [3³1]
1·98 5 [10] [3²2²]
1·99 5 [10] [3²2²]
5 edges
2 vertices
1·100 10 [91] [81²]
1·101 10 [91] [81²]
1·102 10 [91] [81²]
1·103 10 [91] [81²]
1·104 10 [91] [81²]
1·105 10 [91] [81²]
1·106 10 [91] [81²]
1·107 10 [91] [81²]
1·108 10 [91] [81²]
1·109 10 [91] [81²]
1·110 10 [91] [81²]
1·111 10 [91] [81²]
1·112 10 [91] [81²]
1·113 10 [91] [81²]
1·114 10 [91] [81²]
1·115 10 [91] [721]
1·116 10 [91] [721]
1·117 10 [91] [721]
1·118 10 [91] [721]
1·119 10 [91] [721]
1·120 10 [91] [721]
1·121 10 [91] [721]
1·122 10 [91] [721]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1·128 10 [91] [721]
1·129 10 [91] [721]
1·130 10 [91] [631]
1·131 10 [91] [631]
1·132 10 [91] [631]
1·133 10 [91] [631]
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1·139 10 [91] [631]
1·140 10 [91] [631]
1·141 10 [91] [631]
1·142 10 [91] [631]
1·143 10 [91] [62²]
1·144 10 [91] [62²]
1·145 10 [91] [62²]
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1·147 10 [91] [541]
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1·151 10 [91] [541]
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1·154 10 [91] [541]
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1·157 10 [91] [541]
1·158 10 [91] [532]
1·159 10 [91] [532]
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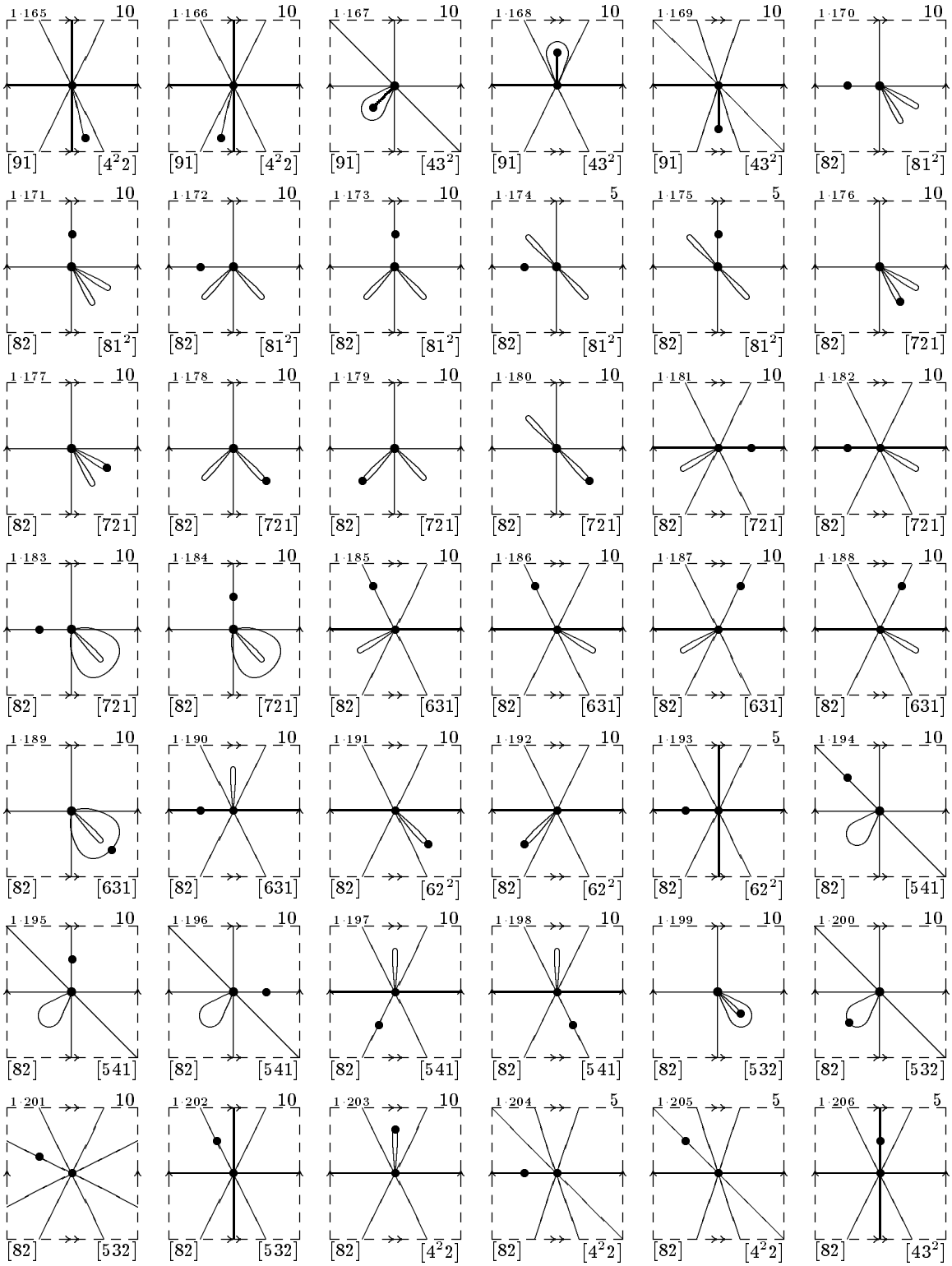
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1·170 10 [82] [81²]
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1·176 10 [82] [721]
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1·185 10 [82] [631]
1·186 10 [82] [631]
1·187 10 [82] [631]
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1·189 10 [82] [631]
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1·191 10 [82] [62²]
1·192 10 [82] [62²]
1·193 5 [82] [62²]
1·194 10 [82] [541]
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1·196 10 [82] [541]
1·197 10 [82] [541]
1·198 10 [82] [541]
1·199 10 [82] [532]
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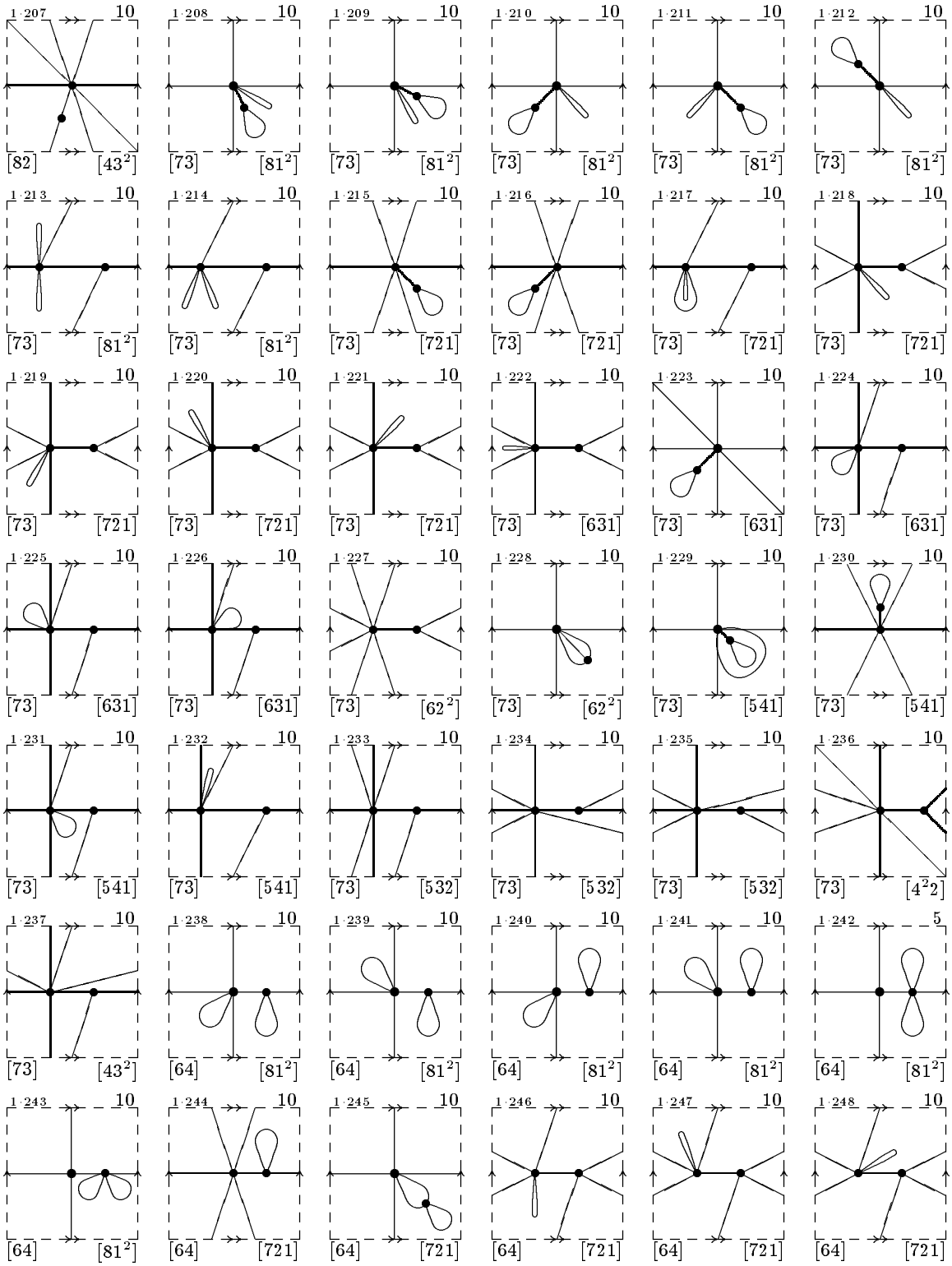
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1.211 10 [73] [81²]
1.212 10 [73] [81²]
1.213 10 [73] [81²]
1.214 10 [73] [81²]
1.215 10 [73] [721]
1.216 10 [73] [721]
1.217 10 [73] [721]
1.218 10 [73] [721]
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1.228 10 [73] [62²]
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1.230 10 [73] [541]
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1.232 10 [73] [541]
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1.238 10 [64] [81²]
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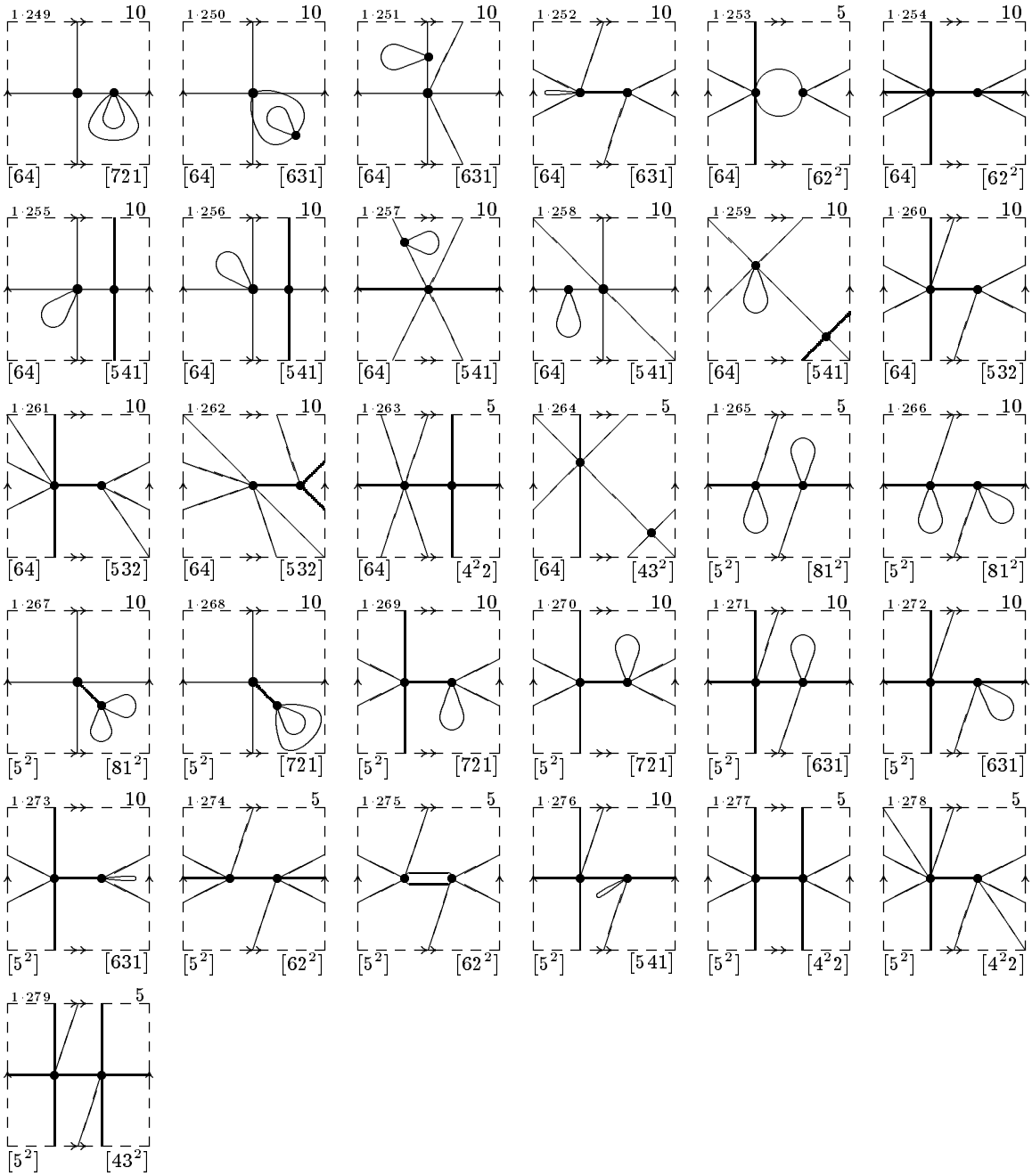
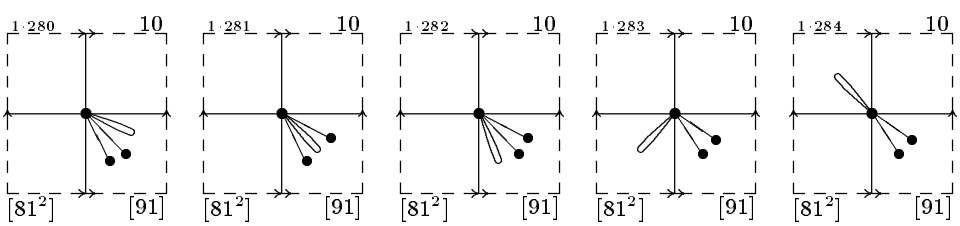
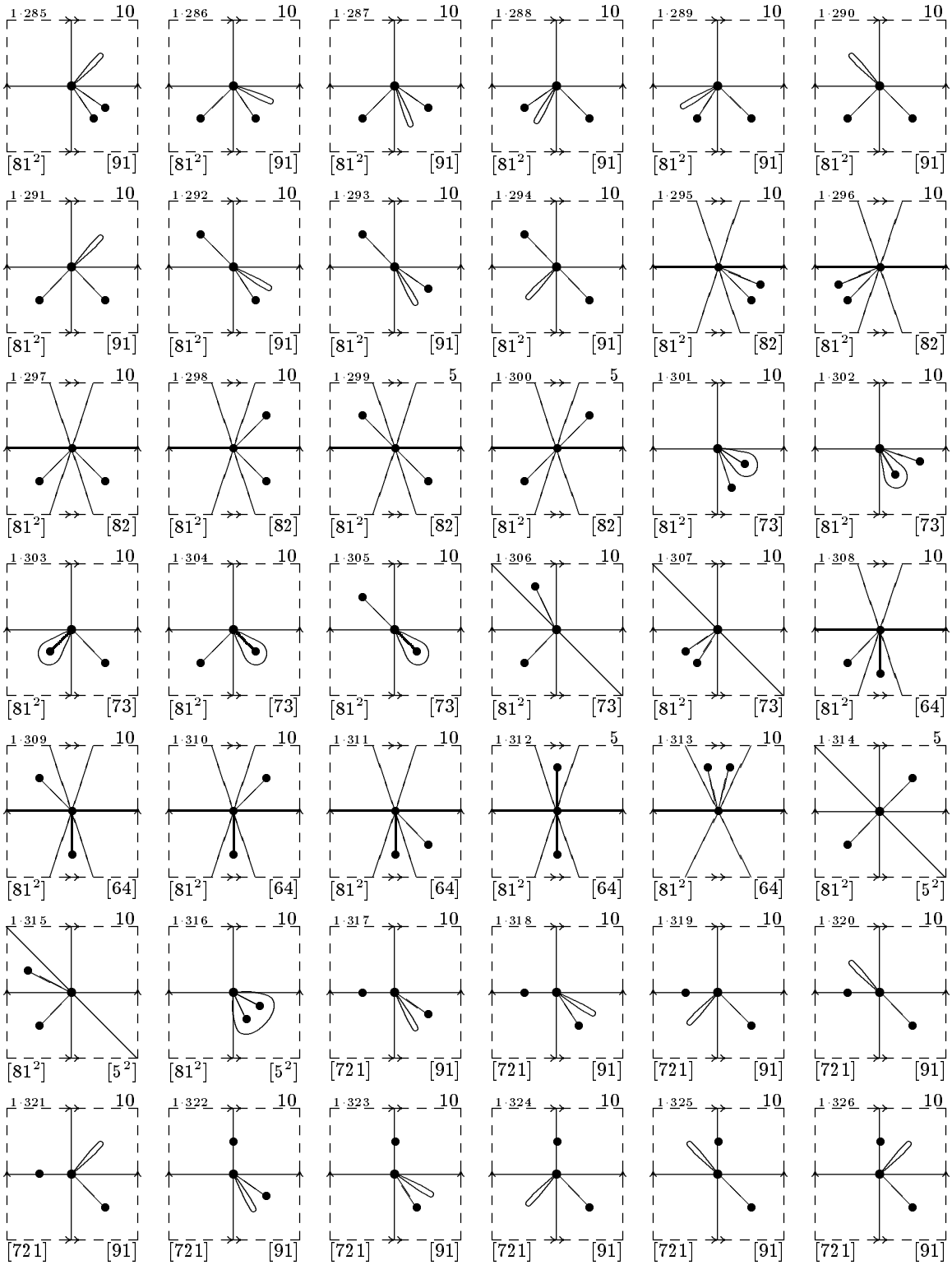


5 edges

3 vertices

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1·312 5 [81²] [64]
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1·314 5 [81²] [5²]
1·315 10 [81²] [5²]
1·316 10 [81²] [5²]
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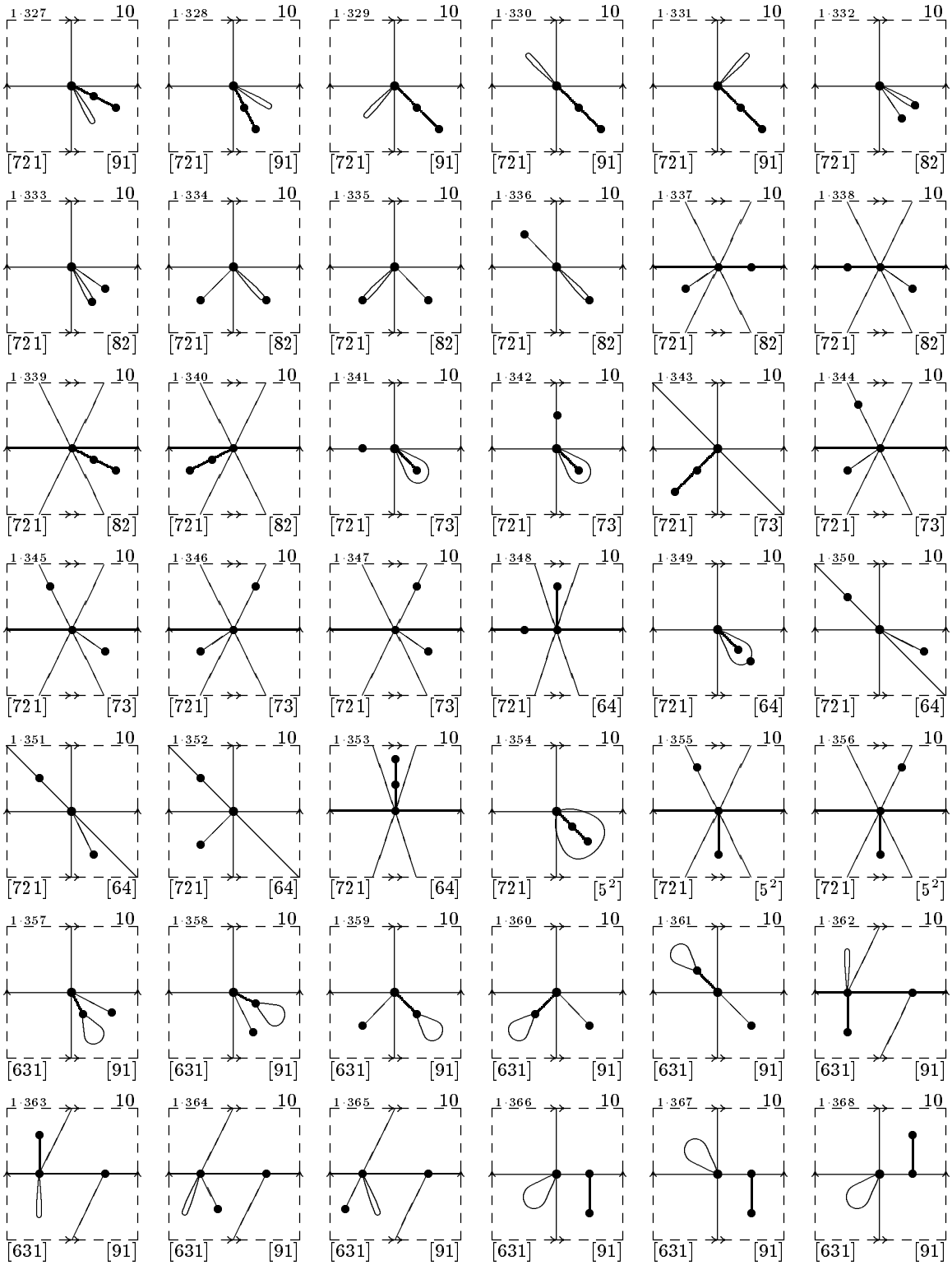
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1·345 10 [721] [73]
1·346 10 [721] [73]
1·347 10 [721] [73]
1·348 10 [721] [64]
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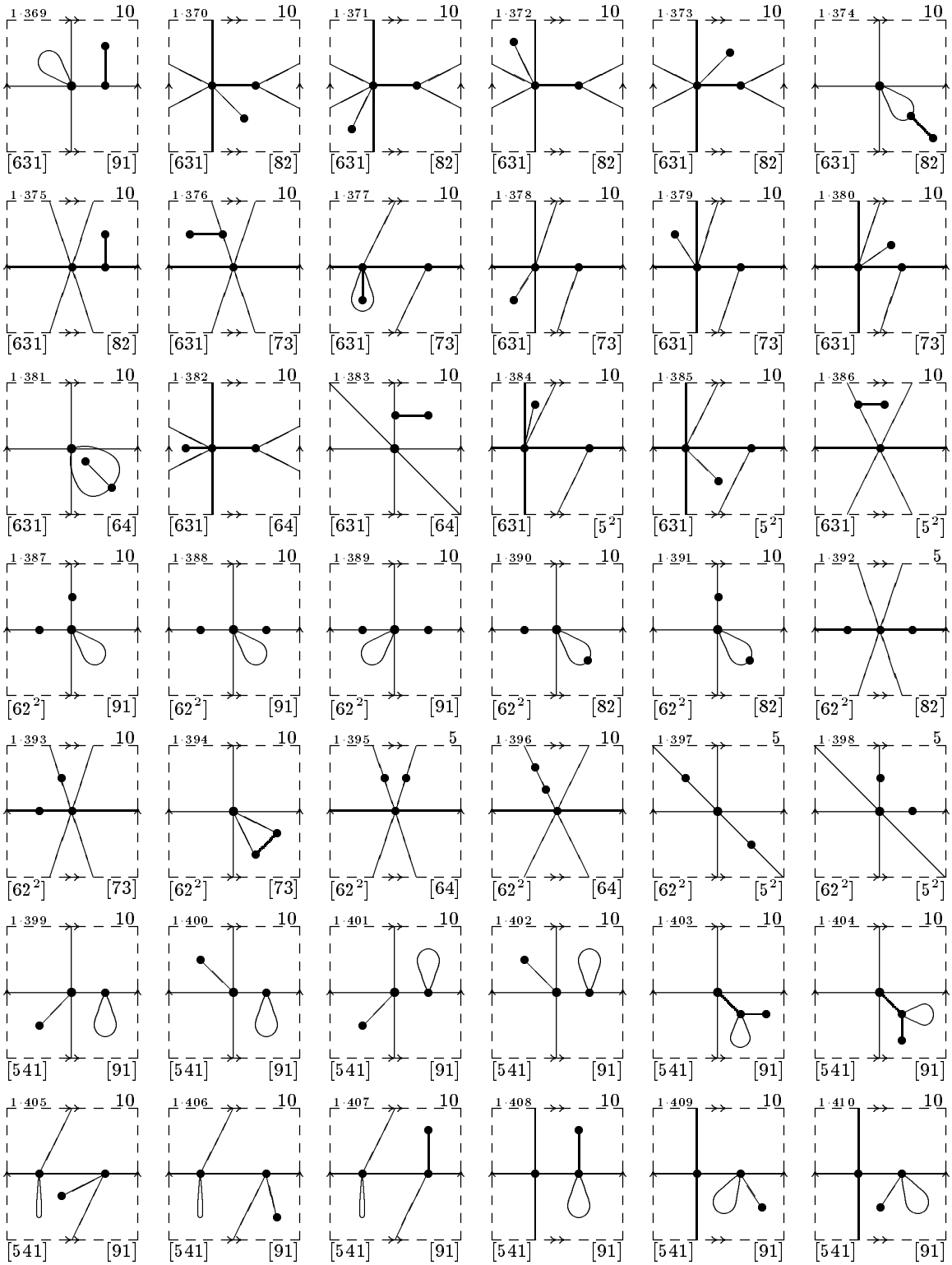
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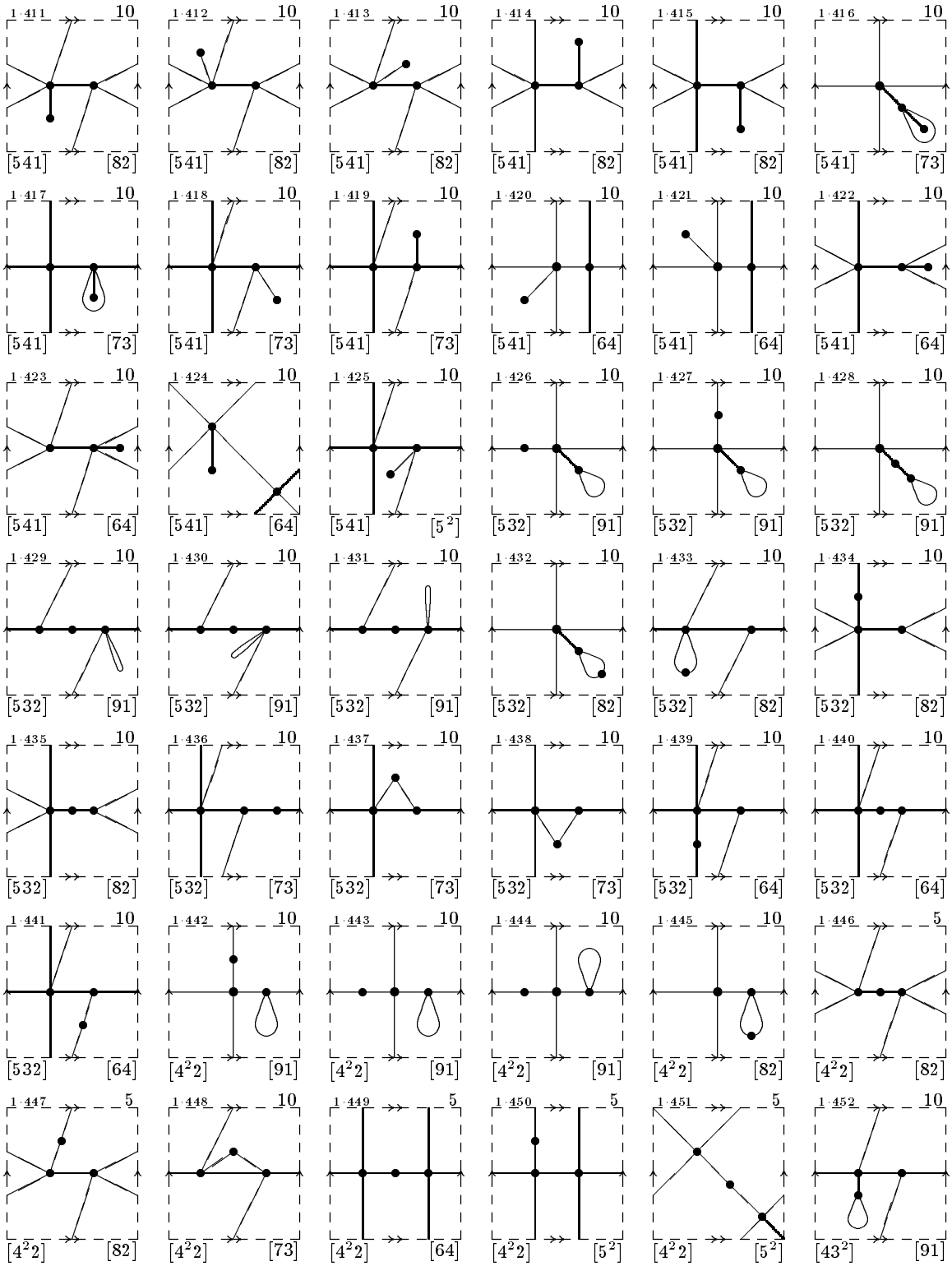
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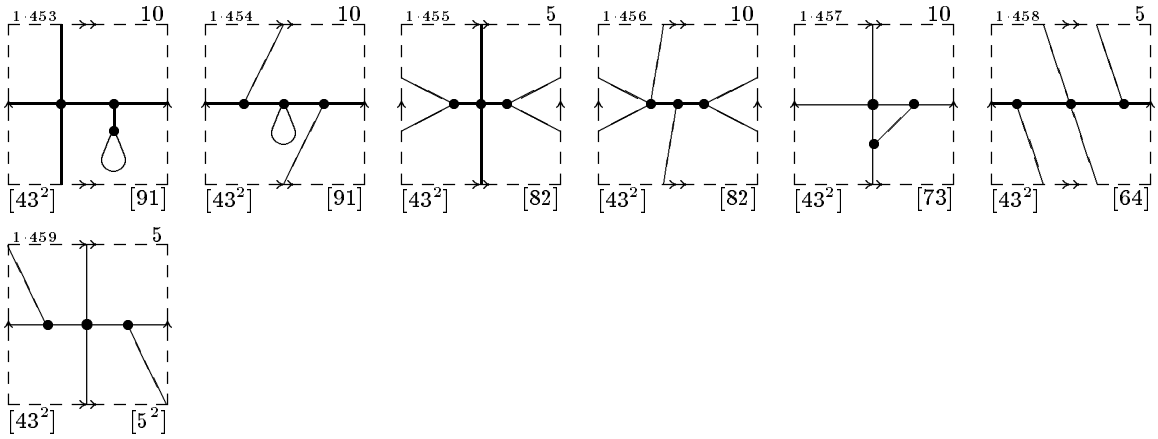
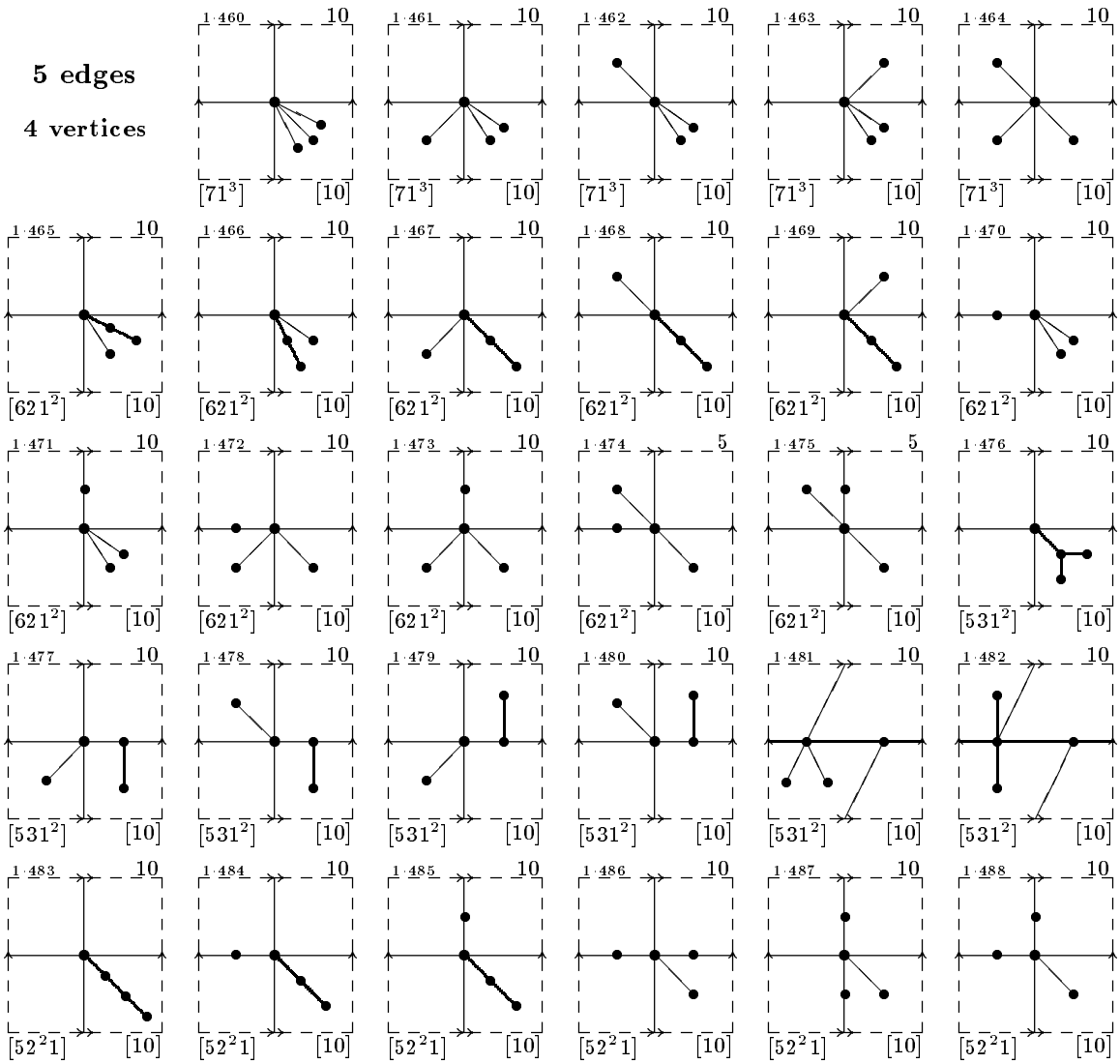
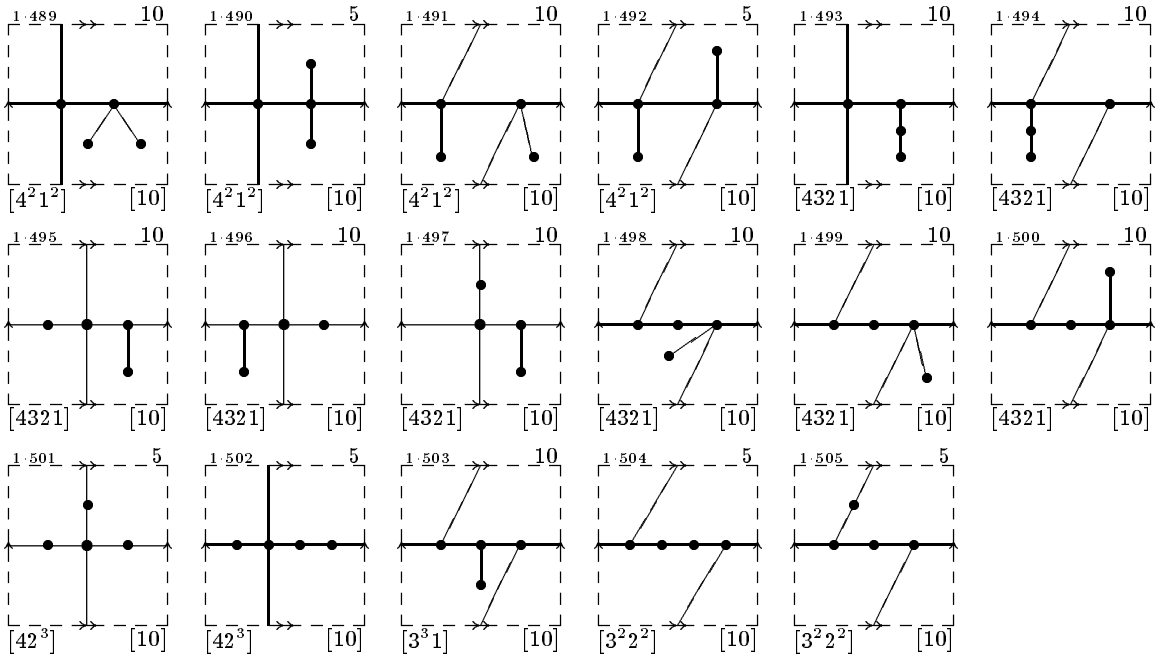


5 edges

4 vertices

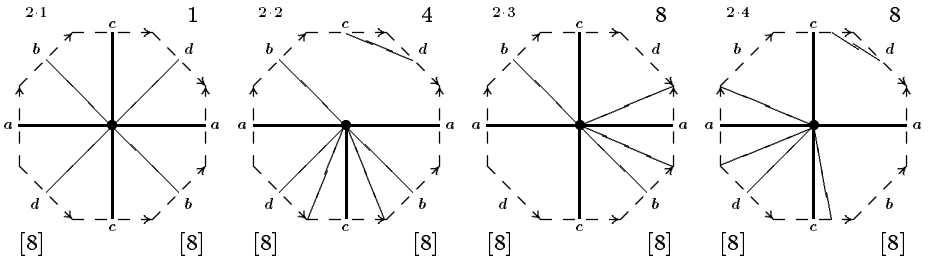




4.1.3. Genus 2

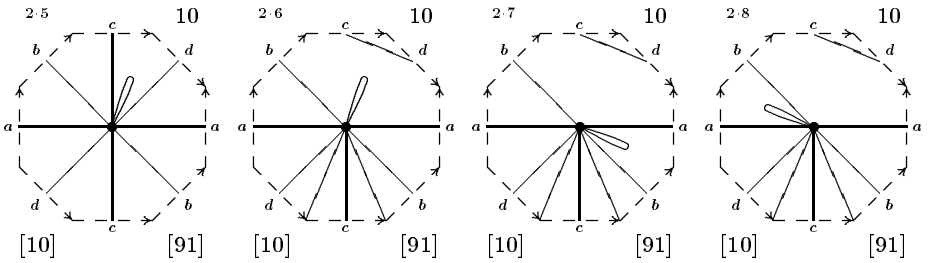
4 edges

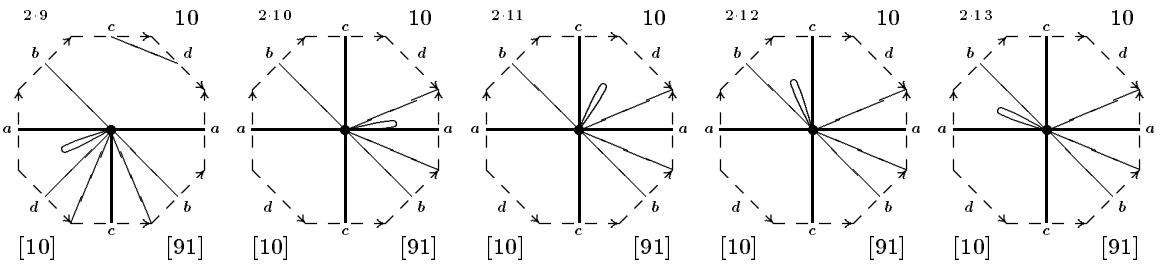
1 vertex

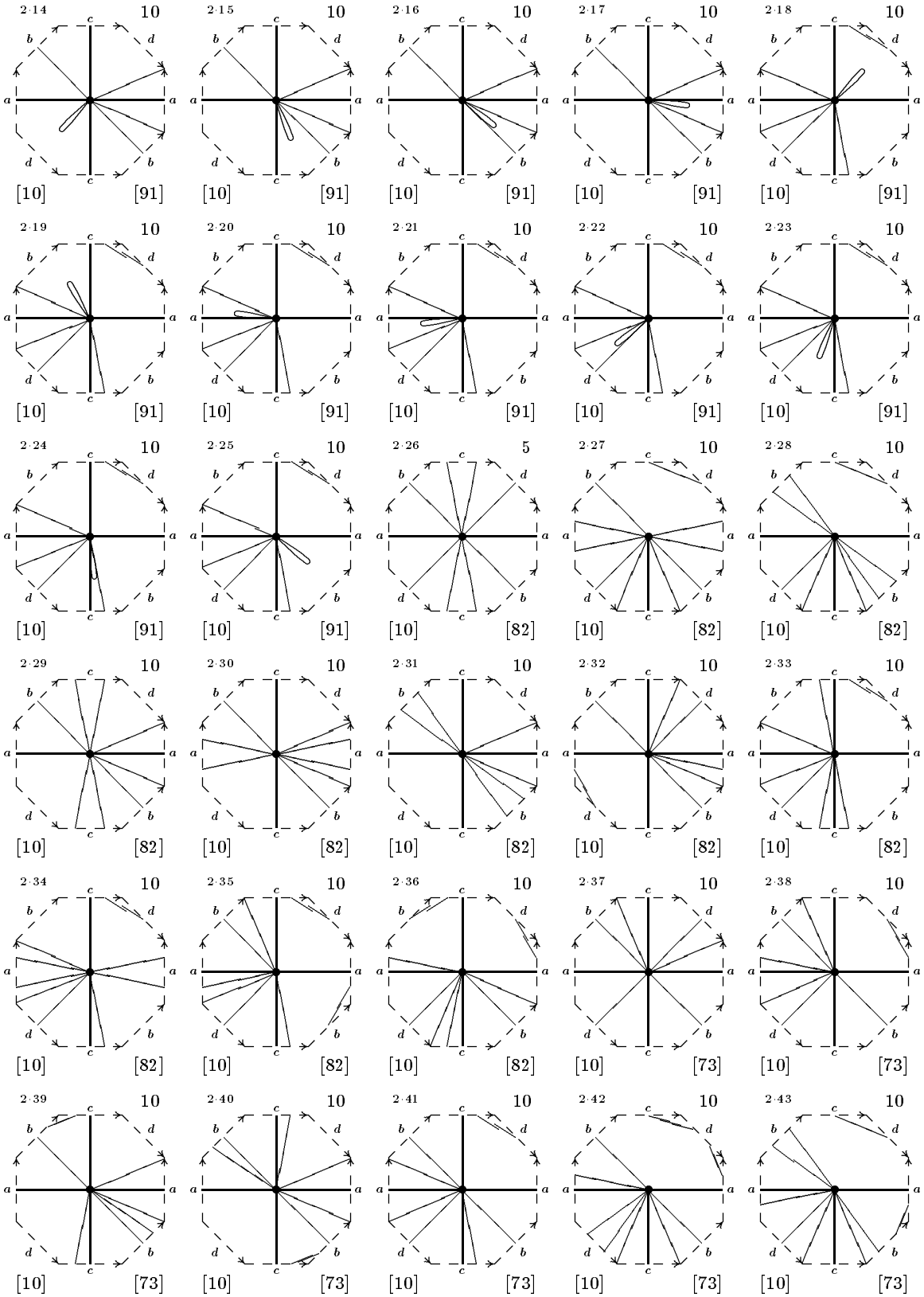


5 edges

1 vertex



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2·28 10 [10] [82]
2·29 10 [10] [82]
2·30 10 [10] [82]
2·31 10 [10] [82]
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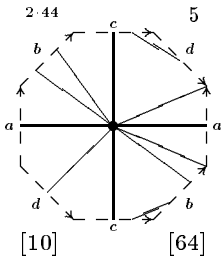
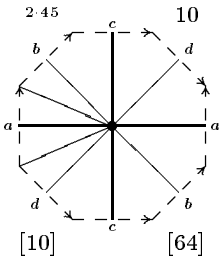
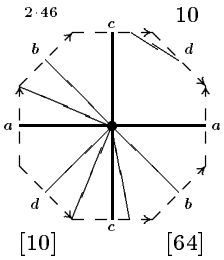
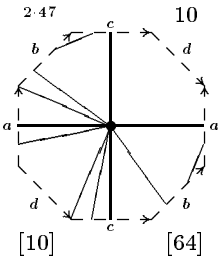
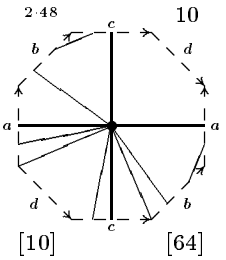
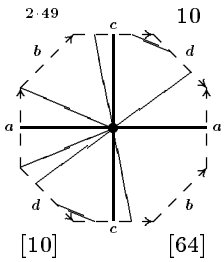


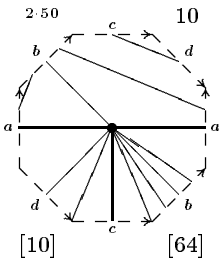


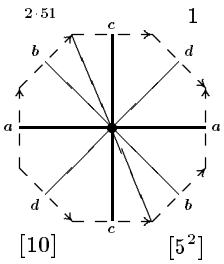


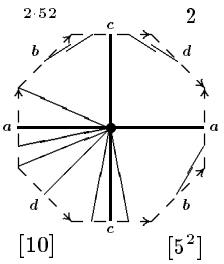


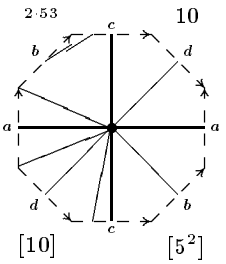


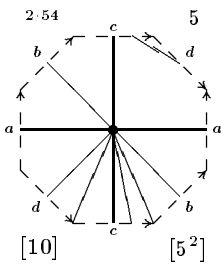


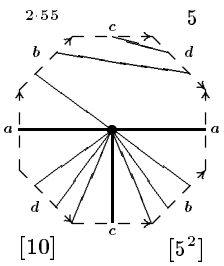


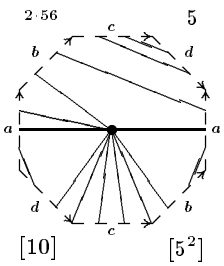


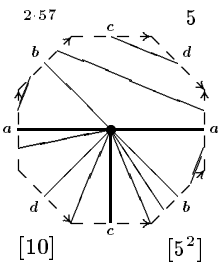






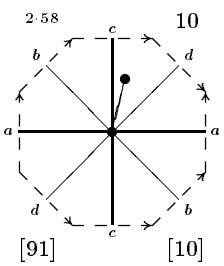


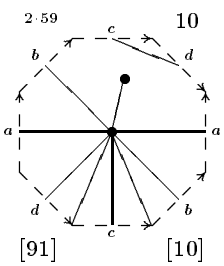


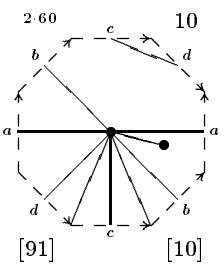


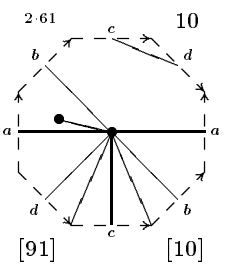
5 edges

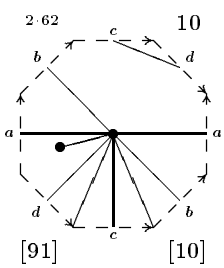
2 vertices

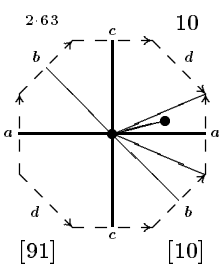


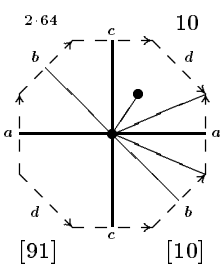


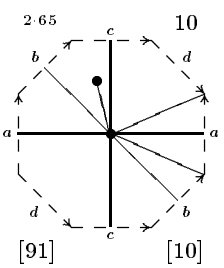


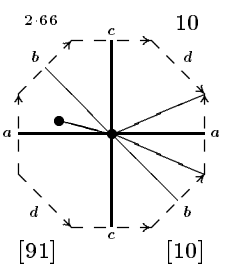


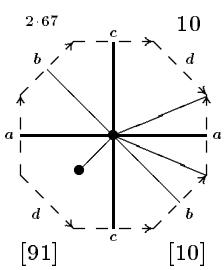


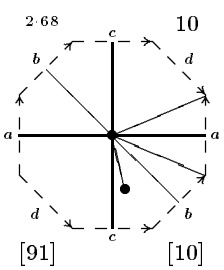


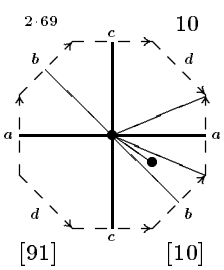


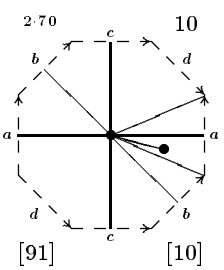


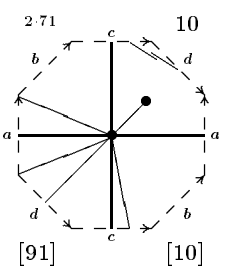


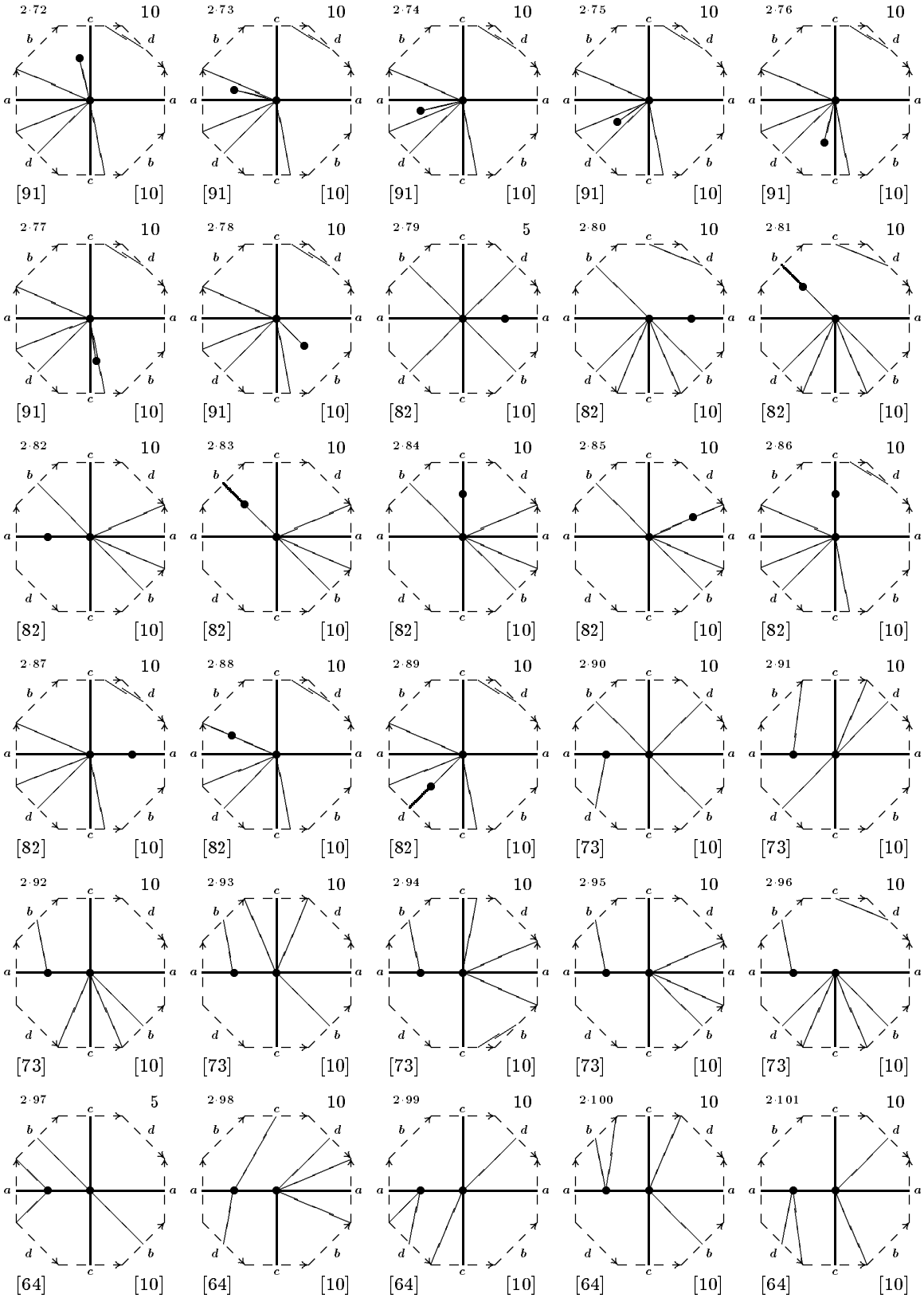


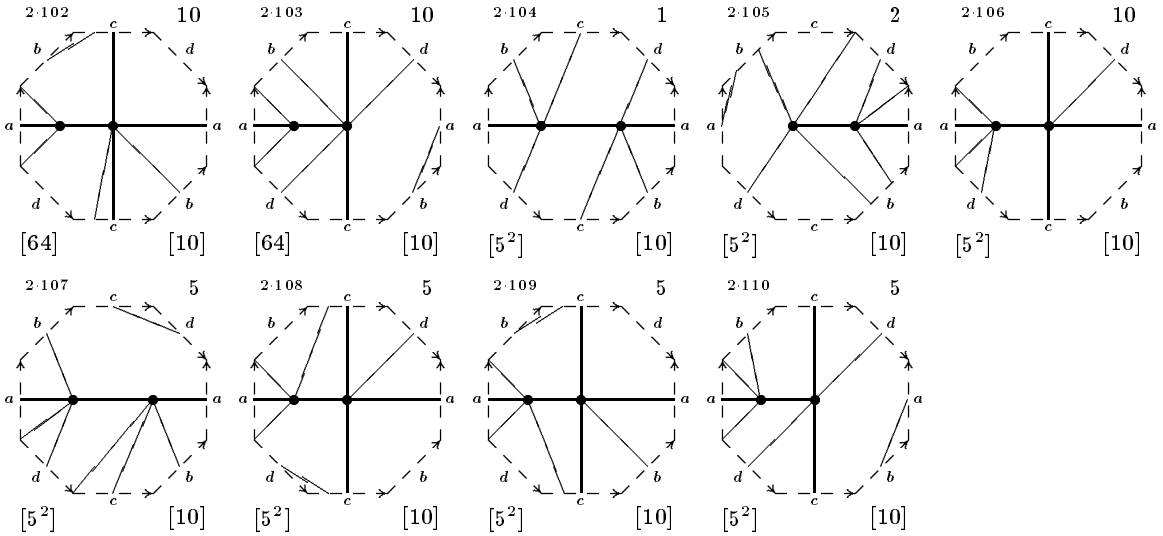









2·72 10 [91] [10]
2·73 10 [91] [10]
2·74 10 [91] [10]
2·75 10 [91] [10]
2·76 10 [91] [10]
2·77 10 [91] [10]
2·78 10 [91] [10]
2·79 5 [82] [10]
2·80 10 [82] [10]
2·81 10 [82] [10]
2·82 10 [82] [10]
2·83 10 [82] [10]
2·84 10 [82] [10]
2·85 10 [82] [10]
2·86 10 [82] [10]
2·87 10 [82] [10]
2·88 10 [82] [10]
2·89 10 [82] [10]
2·90 10 [73] [10]
2·91 10 [73] [10]
2·92 10 [73] [10]
2·93 10 [73] [10]
2·94 10 [73] [10]
2·95 10 [73] [10]
2·96 10 [73] [10]
2·97 5 [64] [10]
2·98 10 [64] [10]
2·99 10 [64] [10]
2·100 10 [64] [10]
2·101 10 [64] [10]

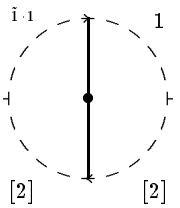


4.2. Nonorientable: indexed by genus, edges, vertices

4.2.1. Genus 1

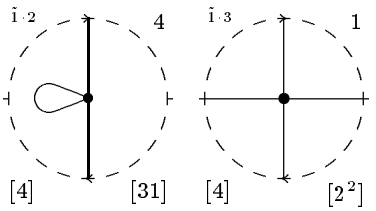
1 edge

1 vertex



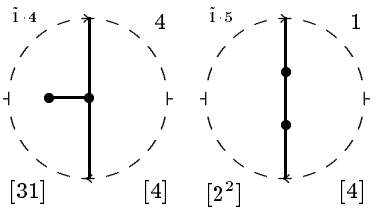
2 edges

1 vertex



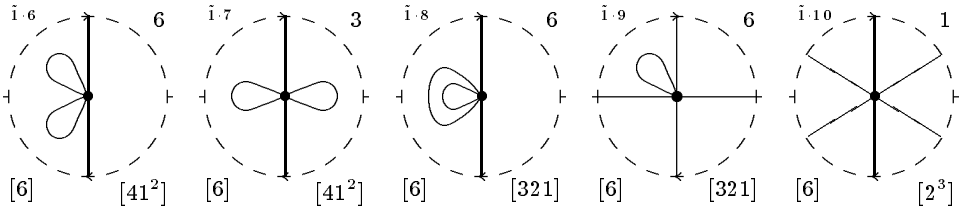
2 edges

2 vertices



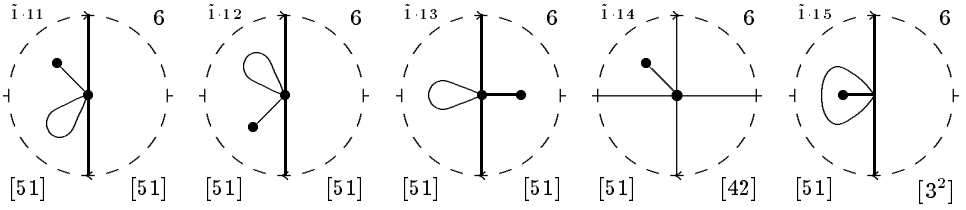
3 edges

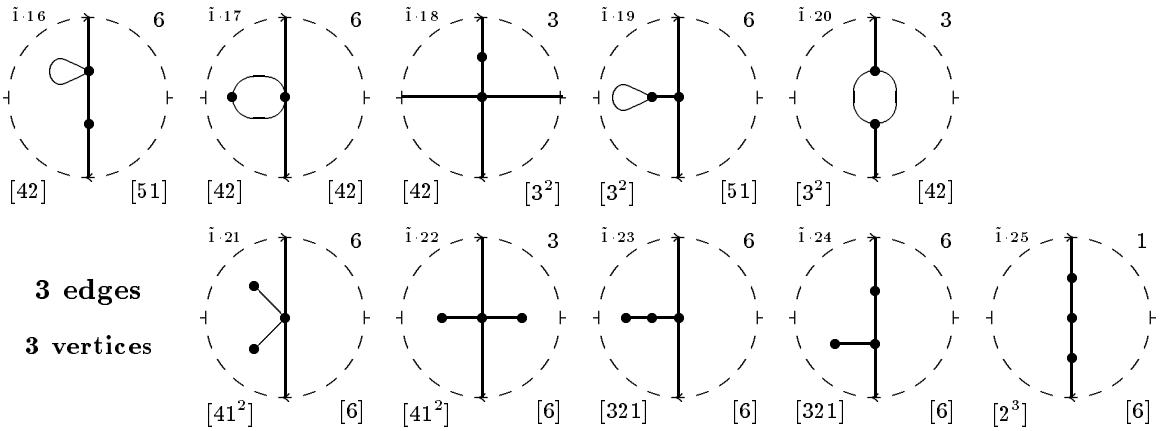
1 vertex



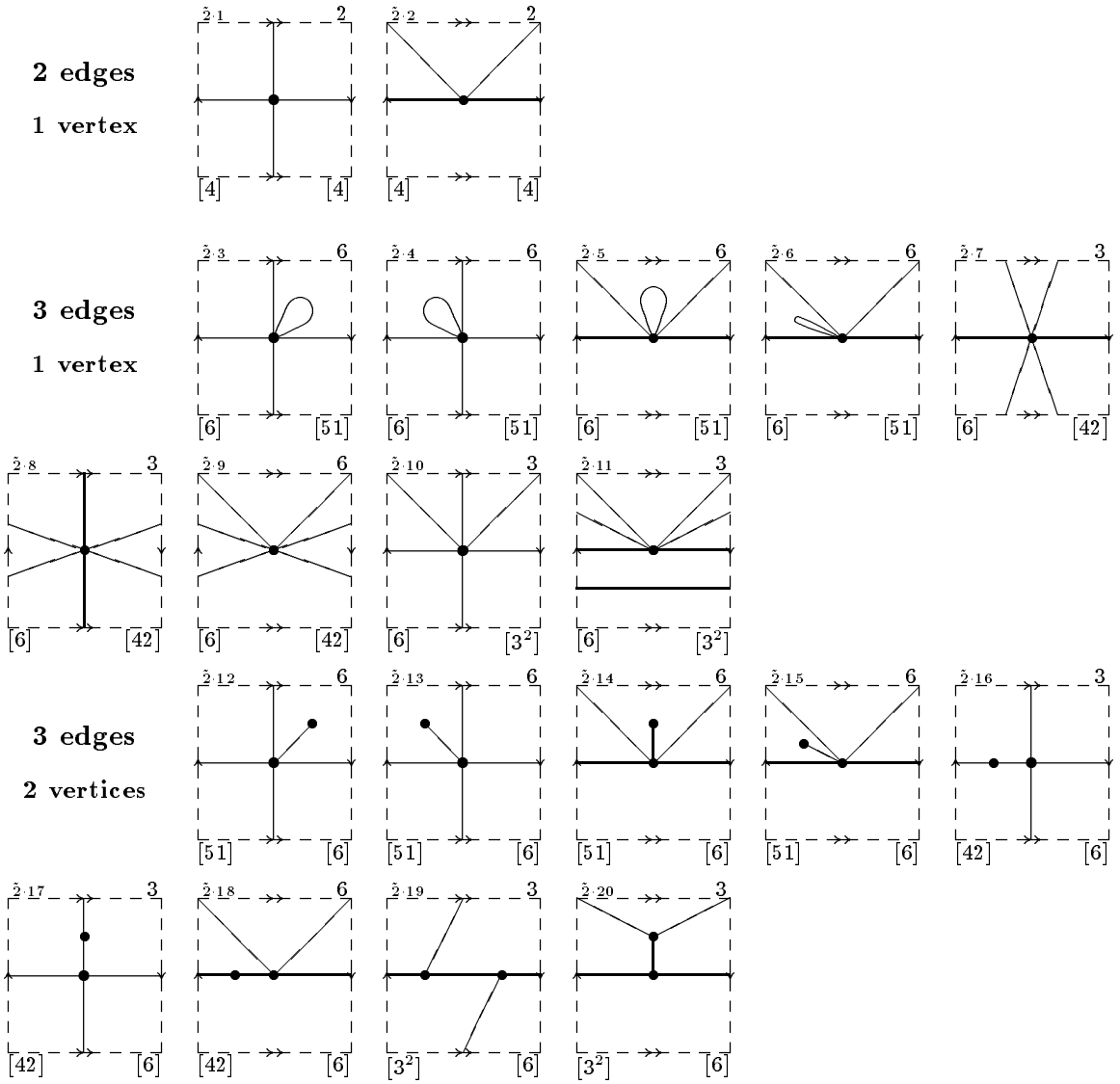
3 edges

2 vertices




Ĩ·16 6 [42] [51]
Ĩ·17 6 [42] [42]
Ĩ·18 3 [42] [3²]
Ĩ·19 6 [3²] [51]
Ĩ·20 3 [3²] [42]
3 edges
3 vertices
Ĩ·21 6 [41²] [6]
Ĩ·22 3 [41²] [6]
Ĩ·23 6 [321] [6]
Ĩ·24 6 [321] [6]
Ĩ·25 1 [2³] [6]

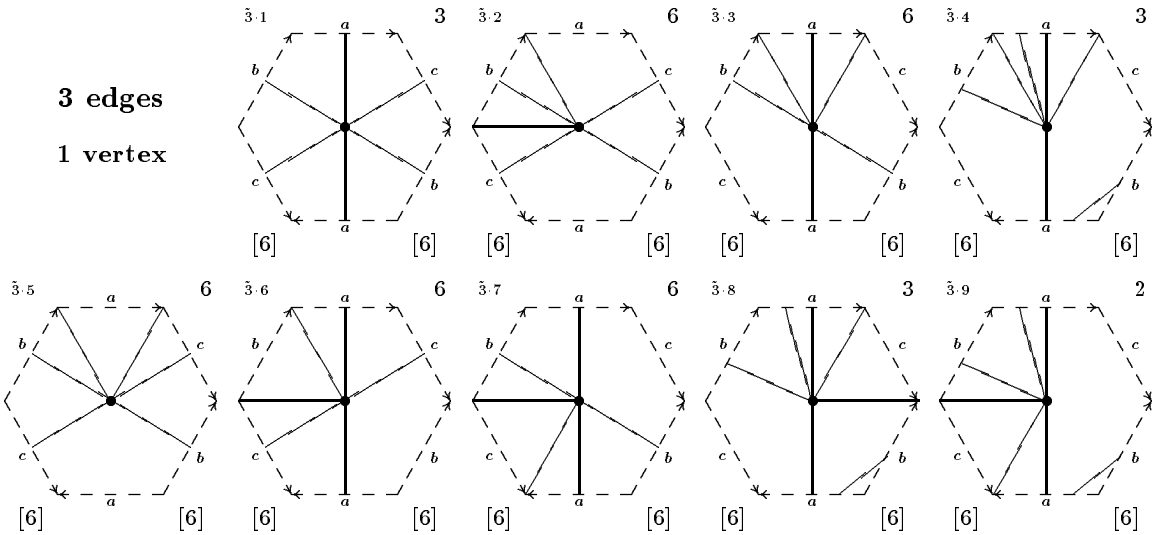
4.2.2. Genus 2


2 edges
1 vertex
2̃·1 2 [4] [4]
2̃·2 2 [4] [4]
3 edges
1 vertex
2̃·3 6 [6] [51]
2̃·4 6 [6] [51]
2̃·5 6 [6] [51]
2̃·6 6 [6] [51]
2̃·7 3 [6] [42]
2̃·8 3 [6] [42]
2̃·9 6 [6] [42]
2̃·10 3 [6] [3²]
2̃·11 3 [6] [3²]
3 edges
2 vertices
2̃·12 6 [51] [6]
2̃·13 6 [51] [6]
2̃·14 6 [51] [6]
2̃·15 6 [51] [6]
2̃·16 3 [42] [6]
2̃·17 3 [42] [6]
2̃·18 6 [42] [6]
2̃·19 3 [3²] [6]
2̃·20 3 [3²] [6]

4.2.3. Genus 3

3 edges

1 vertex



4.3. Indexed by edges, associated graph, genus, vertices