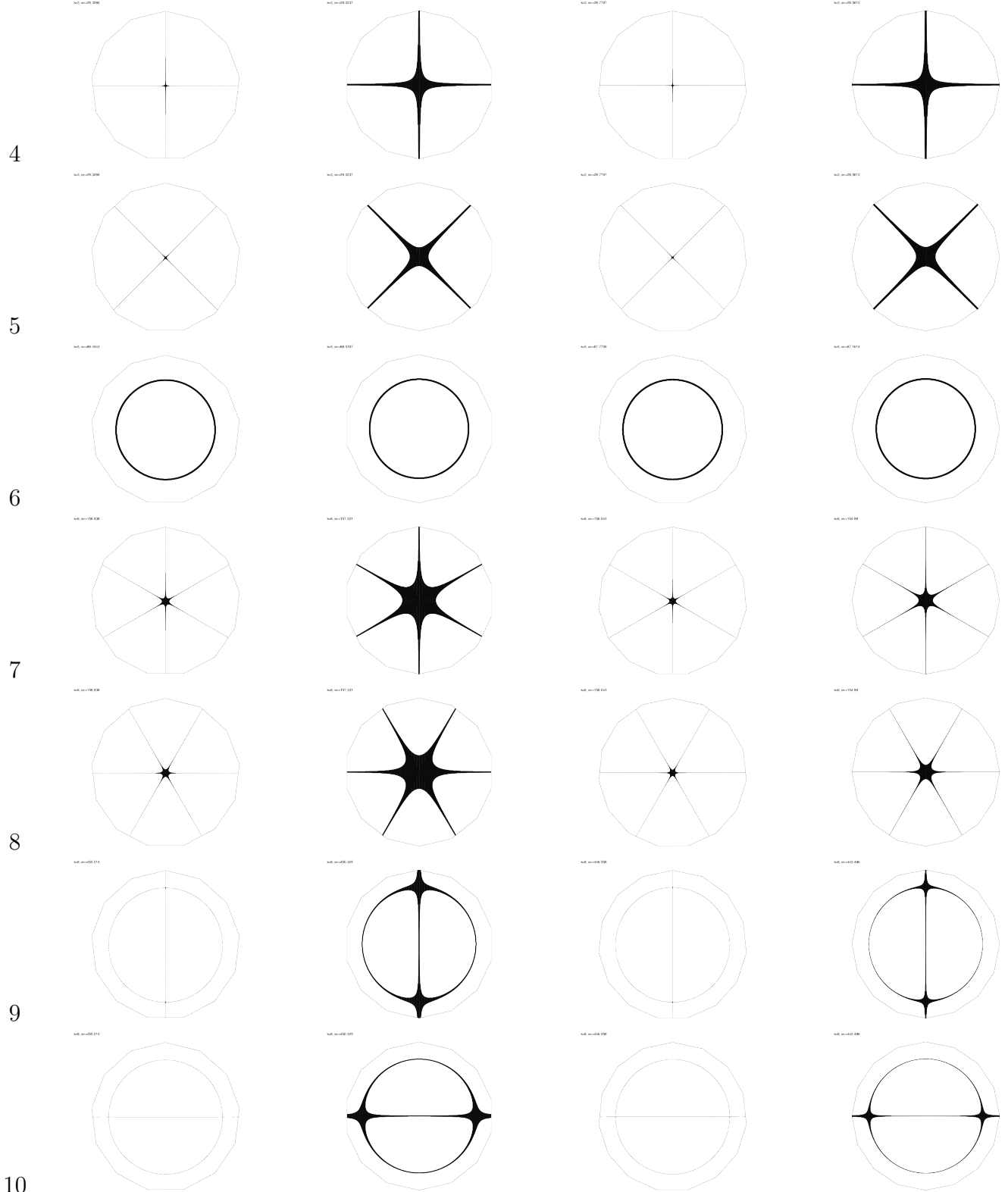


数値計算による正多角形領域の
Chladni 図形の 패턴のまとめ (N=160)

現象数理科学専攻博士前期課程2年
遠藤 小欽

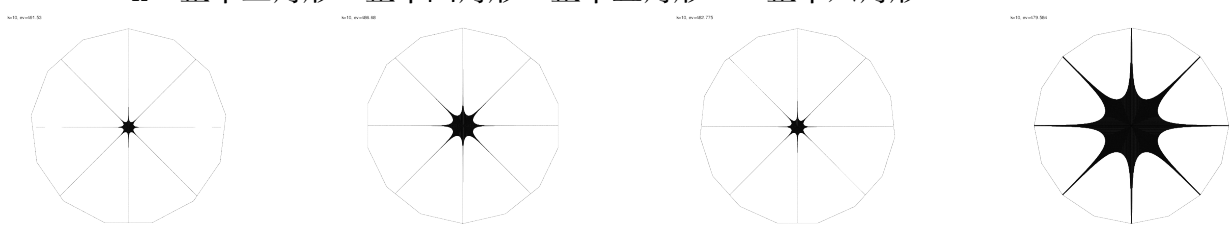
2015 年 9 月 9 日

k 正三角形 正十四角形 正十五角形 正十六角形

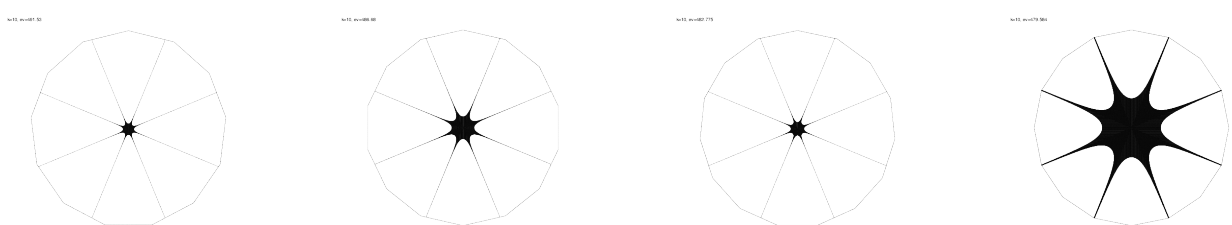


k 正三角形 正十四角形 正十五角形 正十六角形

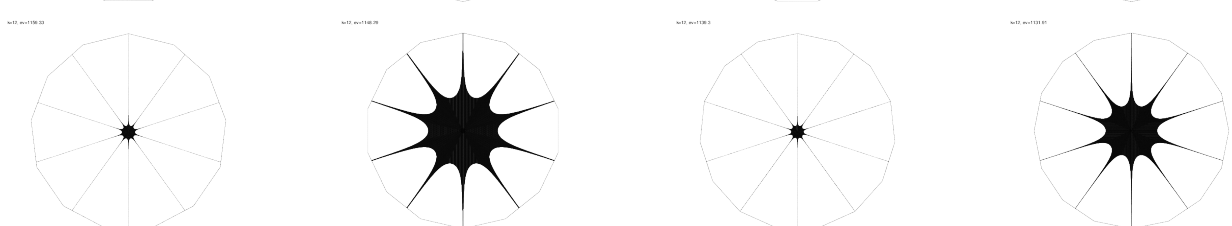
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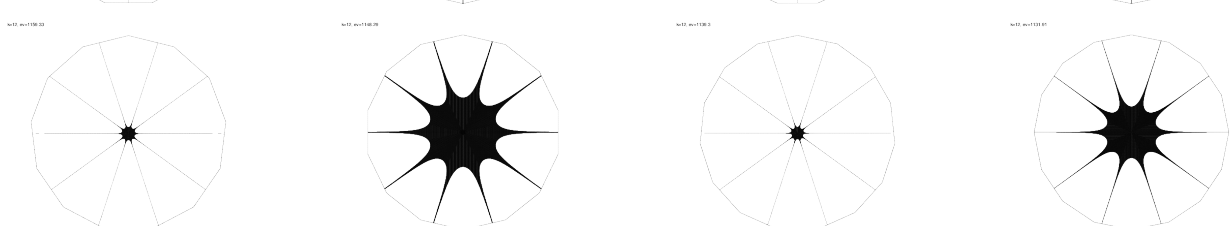
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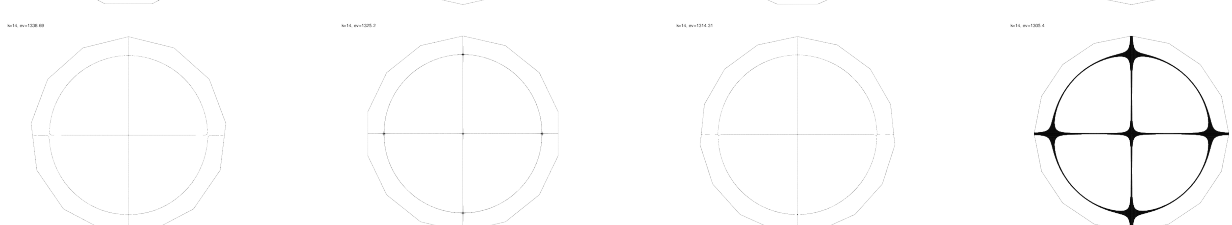
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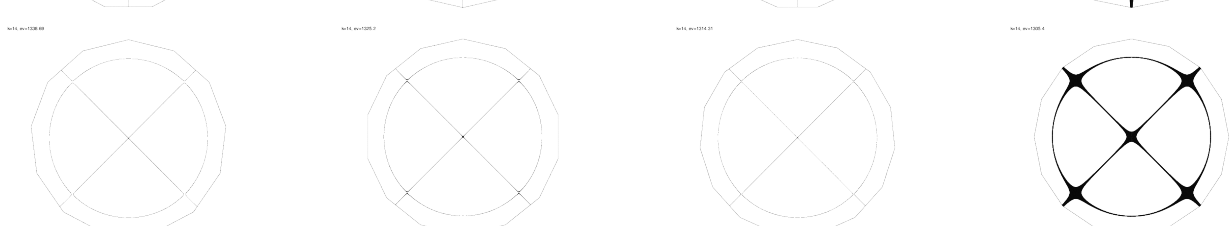
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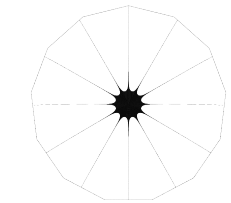
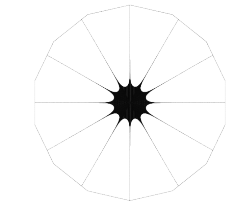
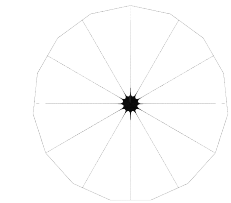
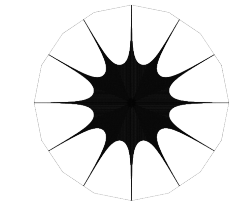
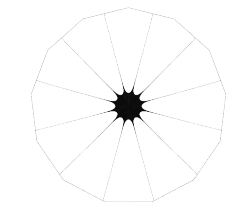
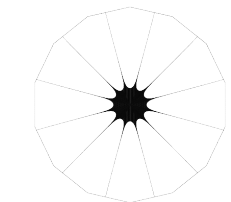
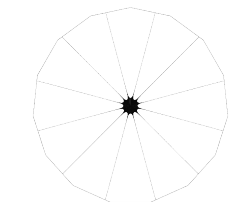
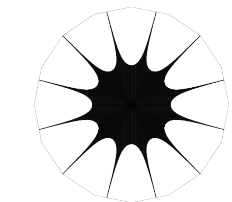
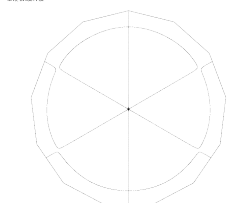
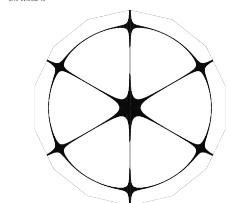
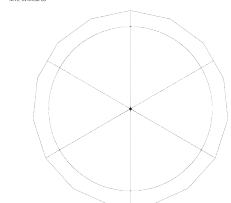
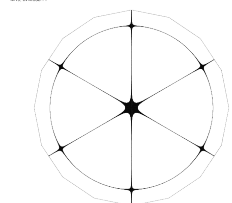
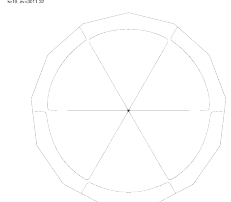
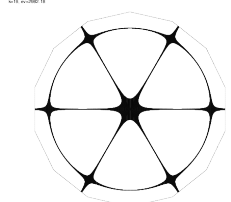
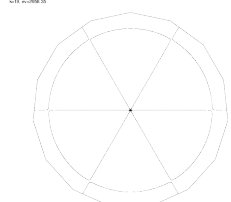
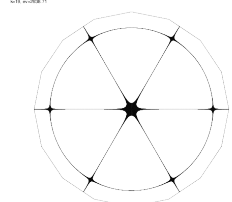
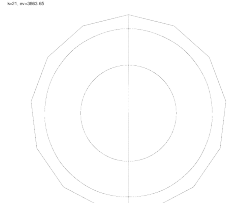
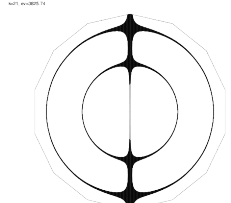
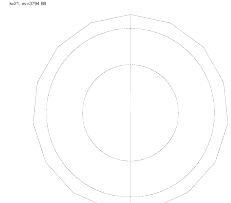
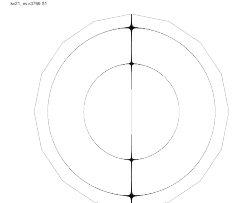
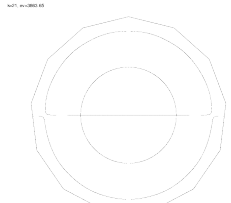
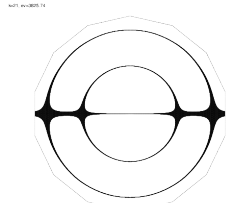
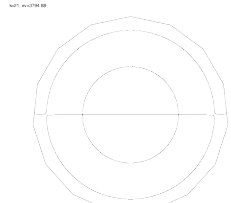
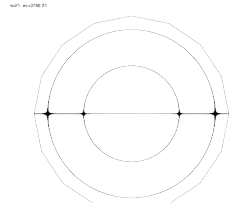
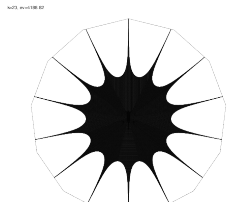
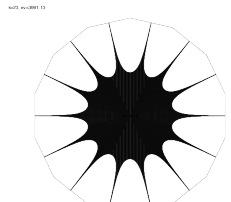
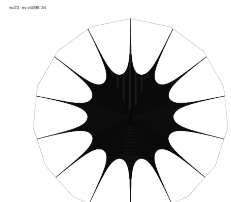
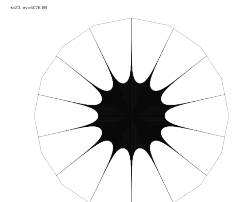
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17

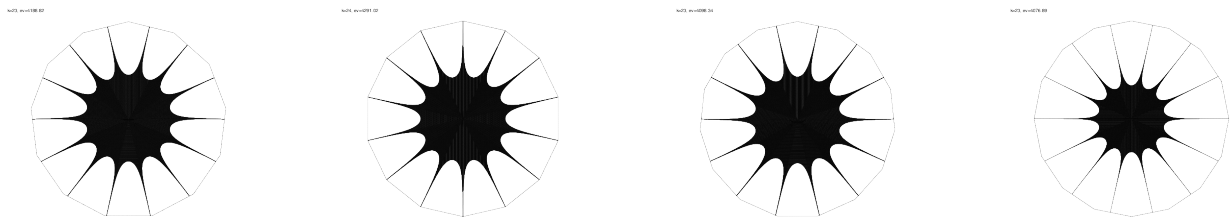


k 正三角形 正十四角形 正十五角形 正十六角形

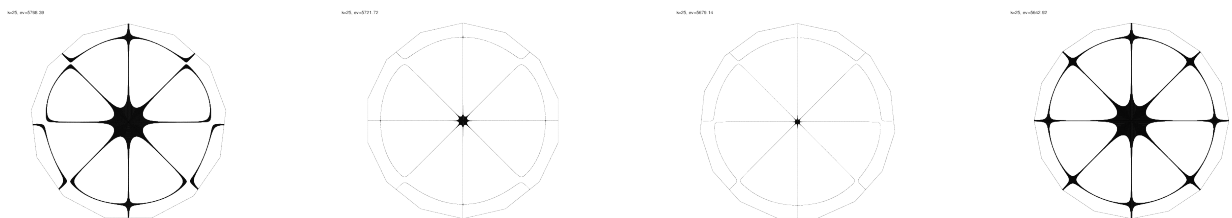
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19				
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25



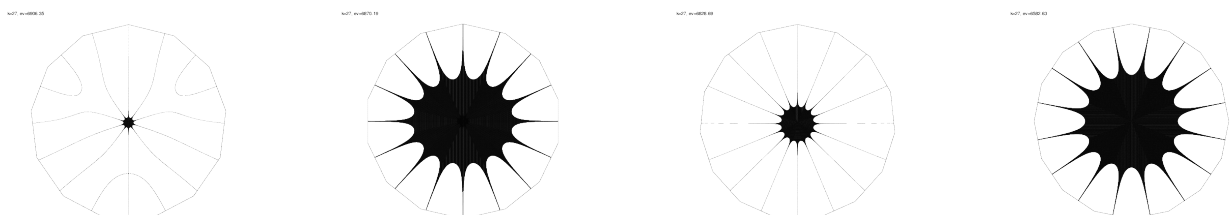
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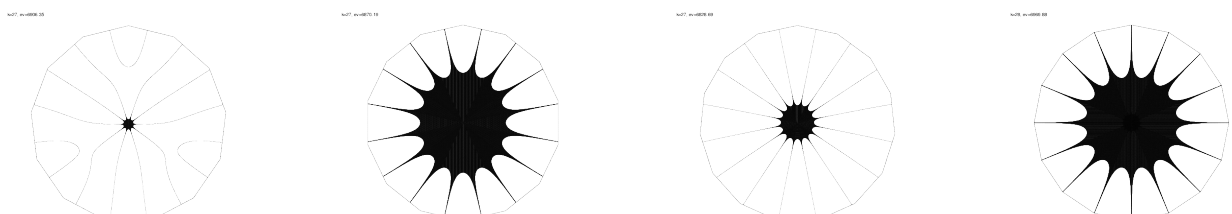
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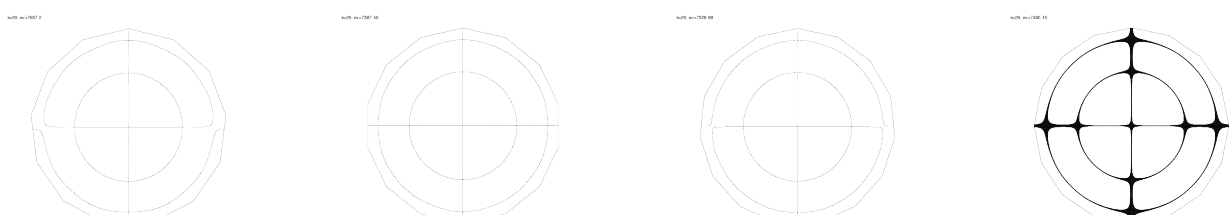
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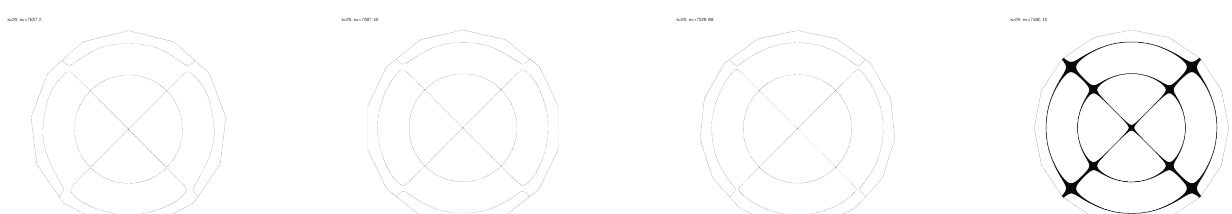
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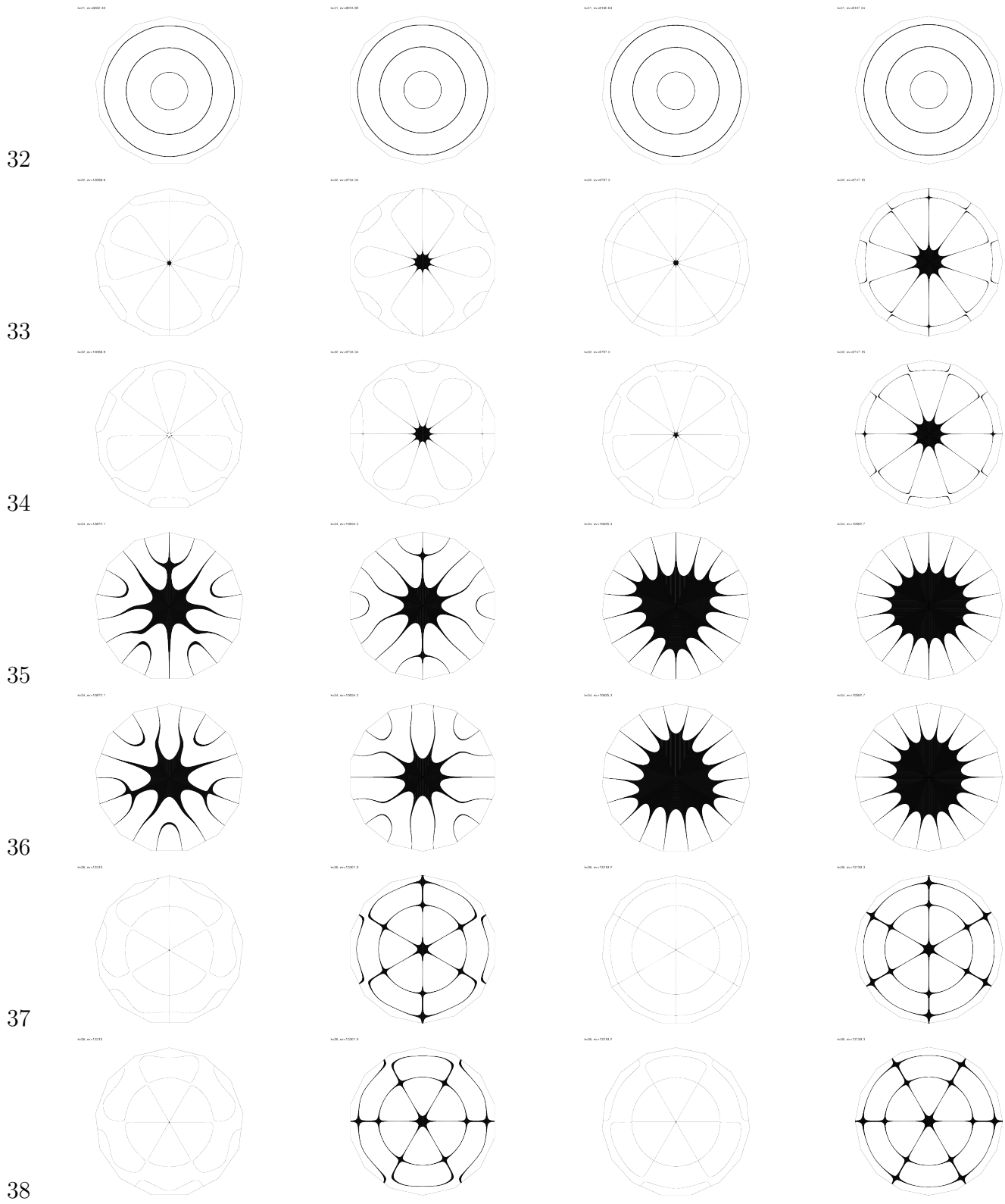
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31



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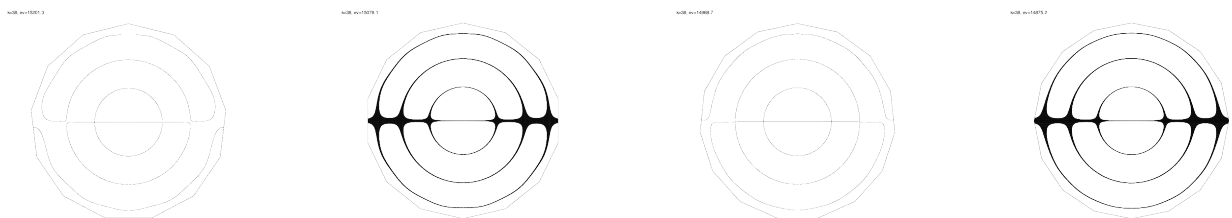


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39



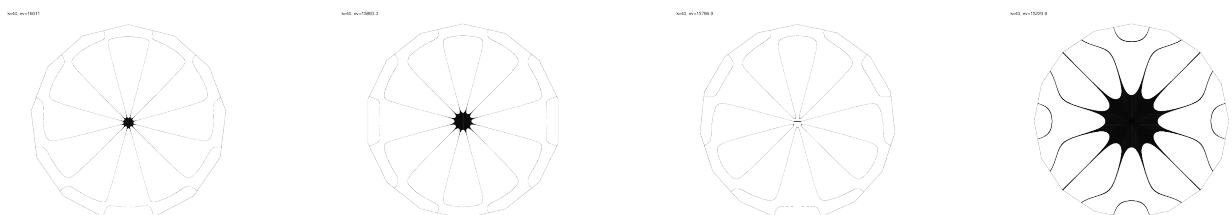
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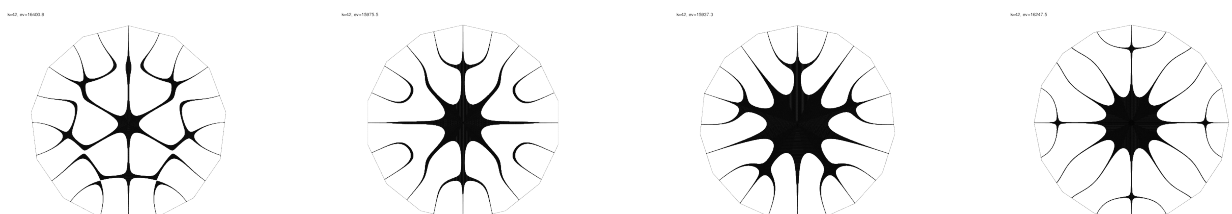
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42



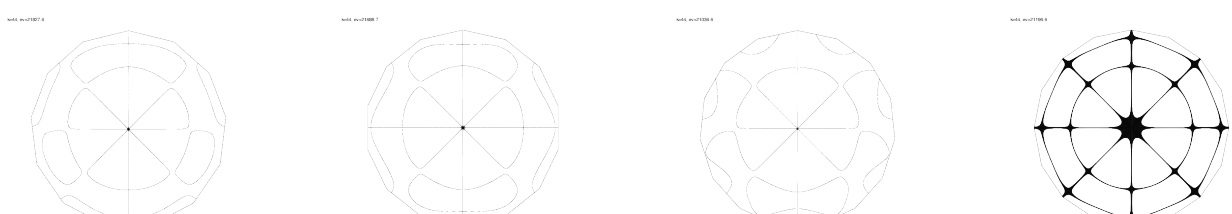
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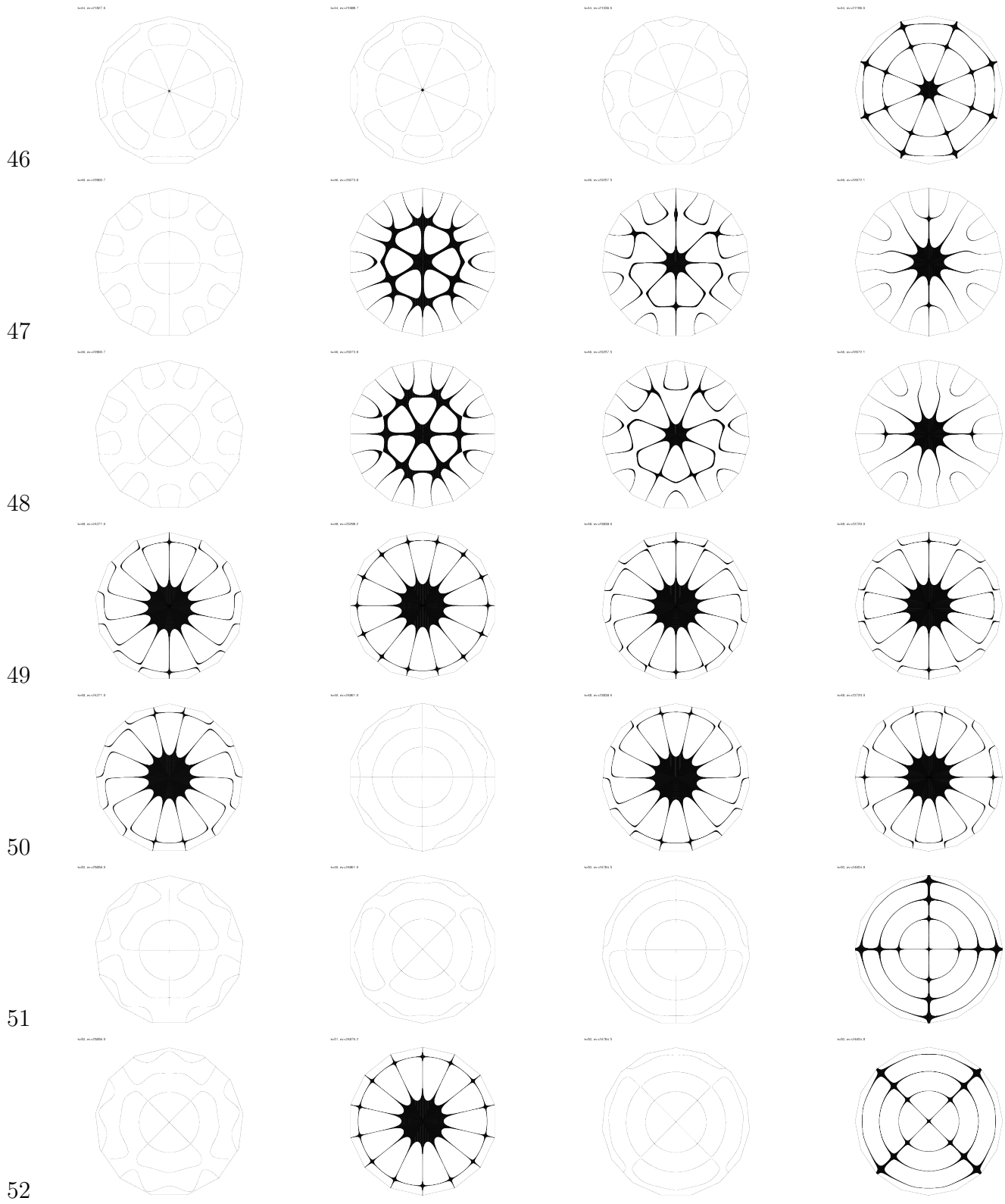
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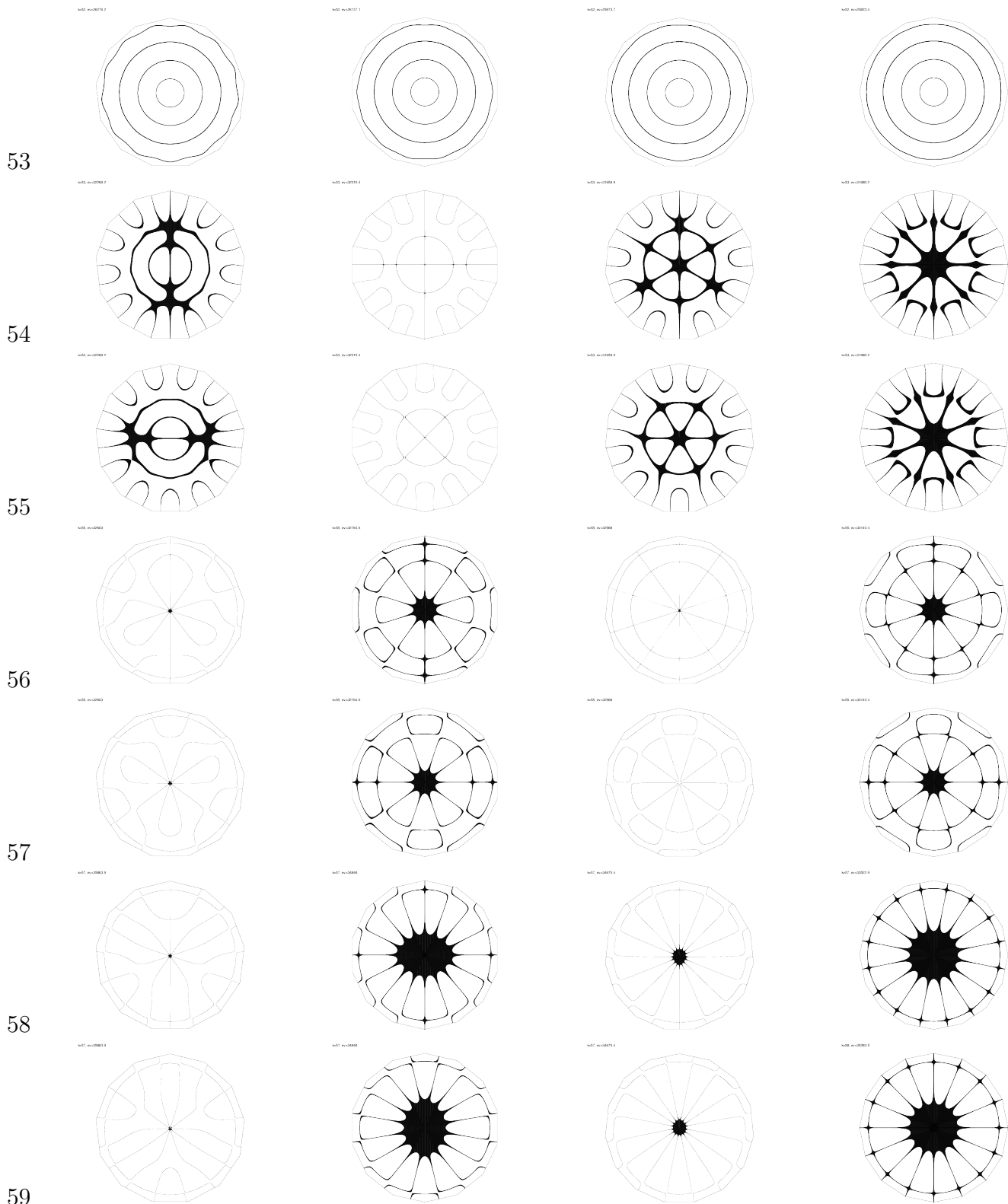
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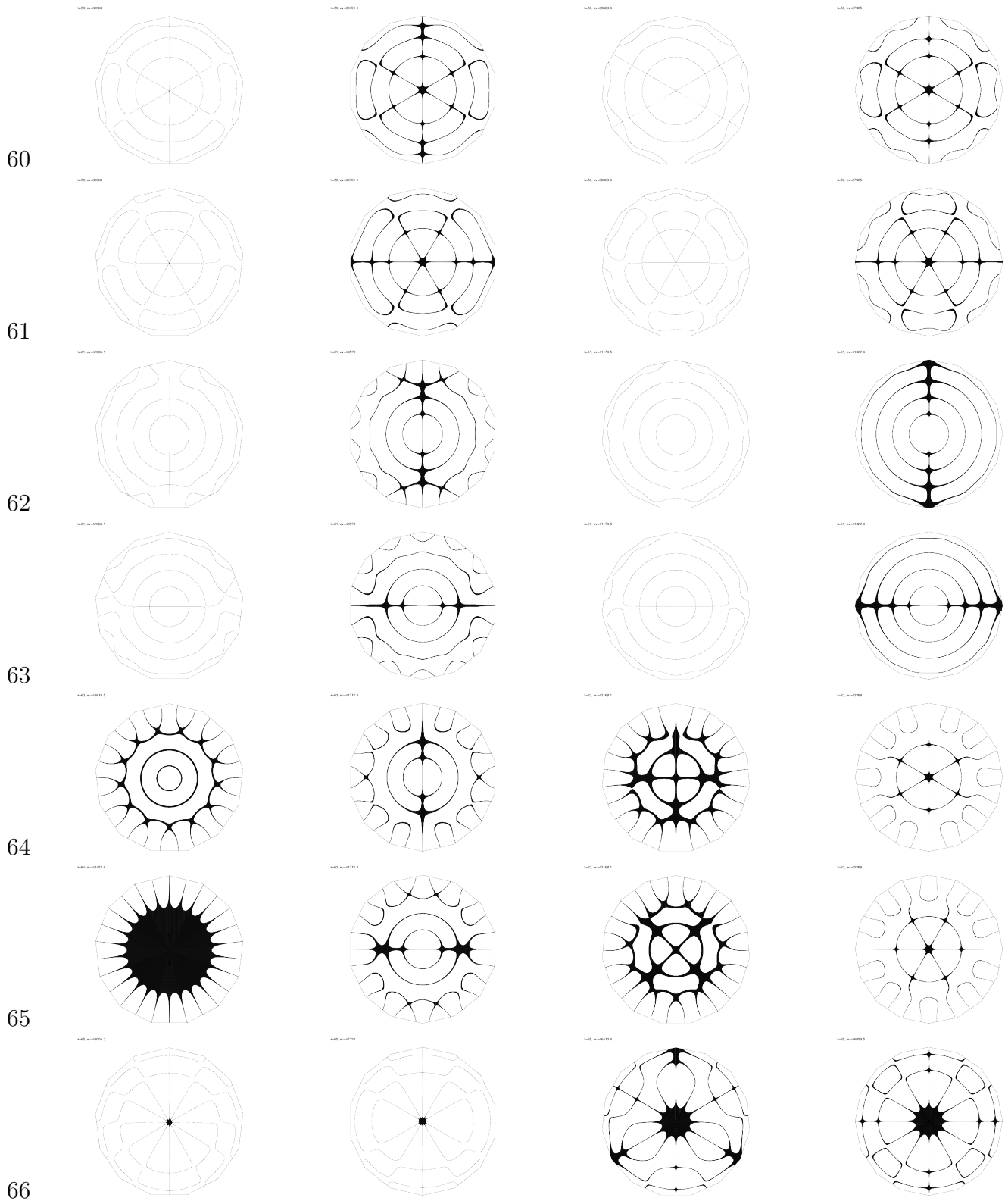
k 正三角形 正十四角形 正十五角形 正十六角形



k 正三角形 正十四角形 正十五角形 正十六角形

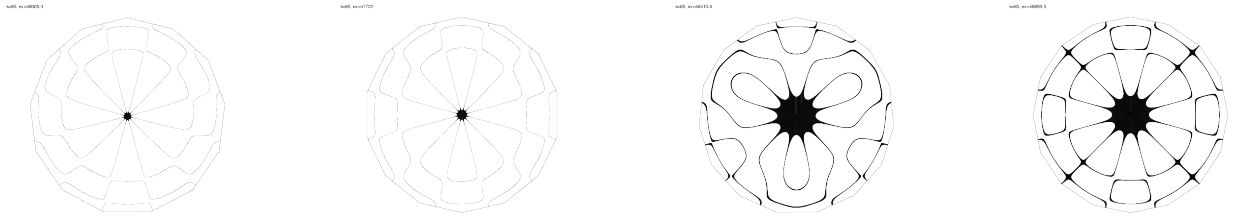


k 正三角形 正十四角形 正十五角形 正十六角形



k 正三角形 正十四角形 正十五角形 正十六角形

67



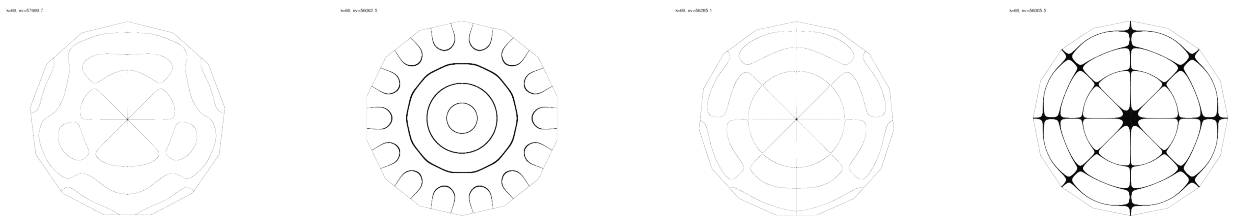
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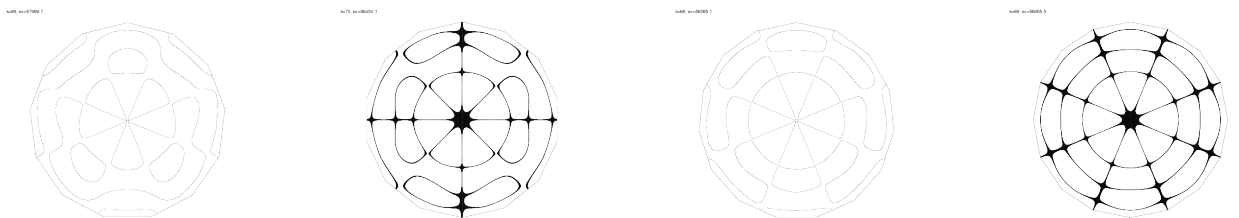
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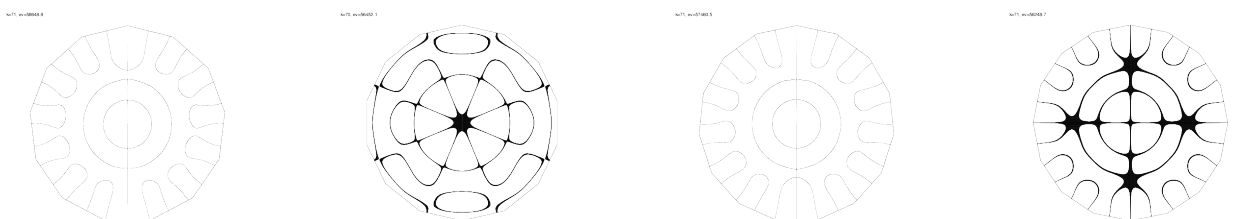
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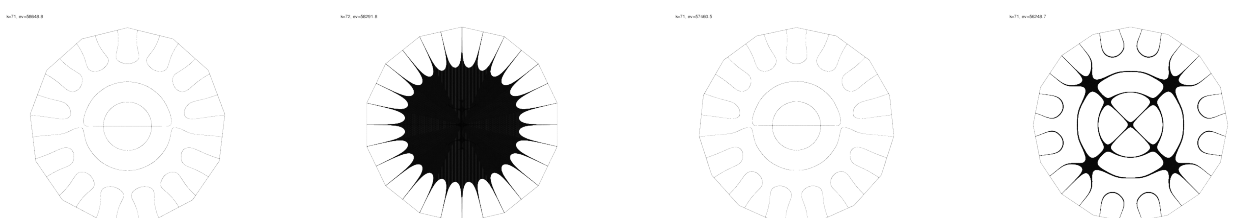
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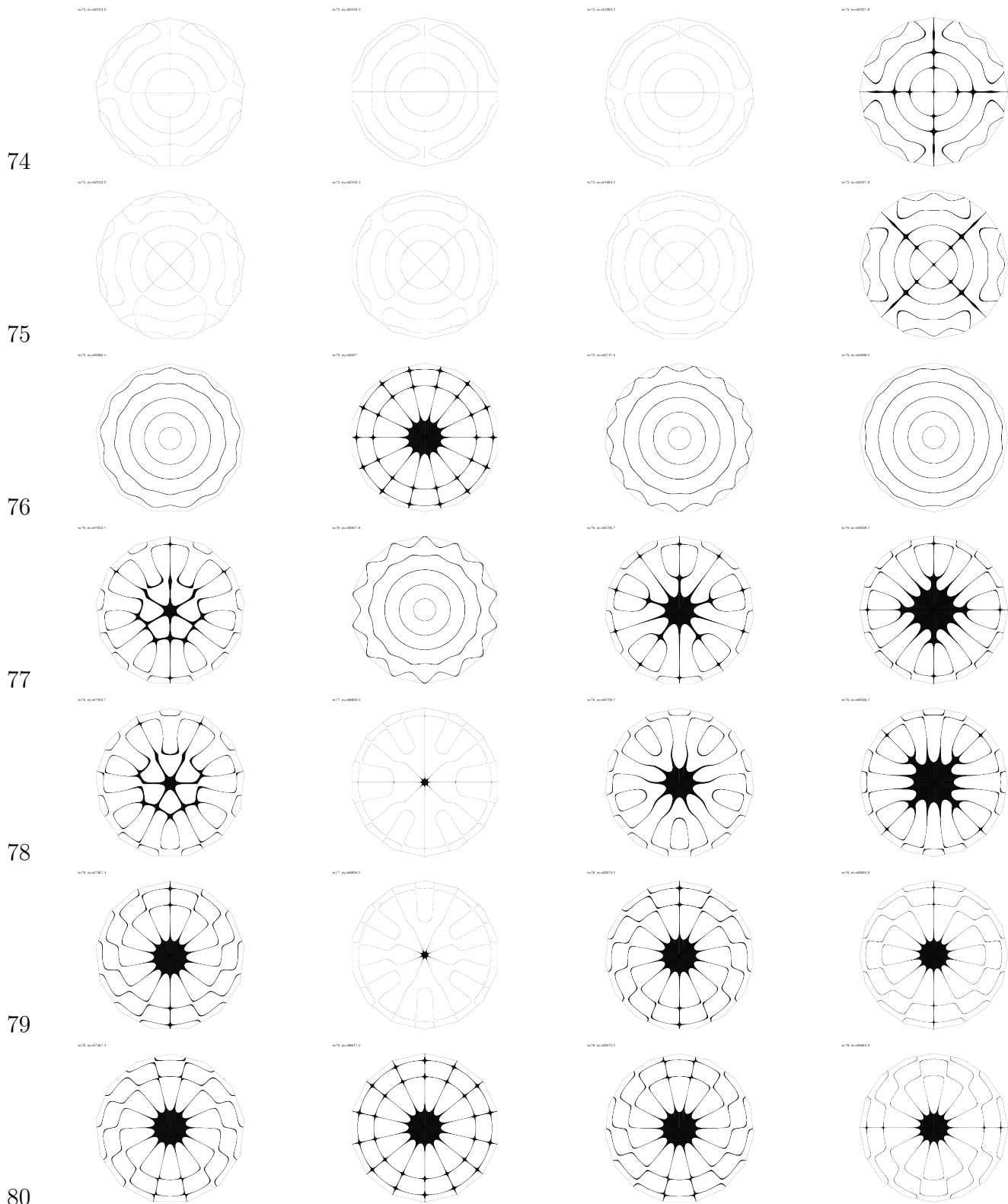
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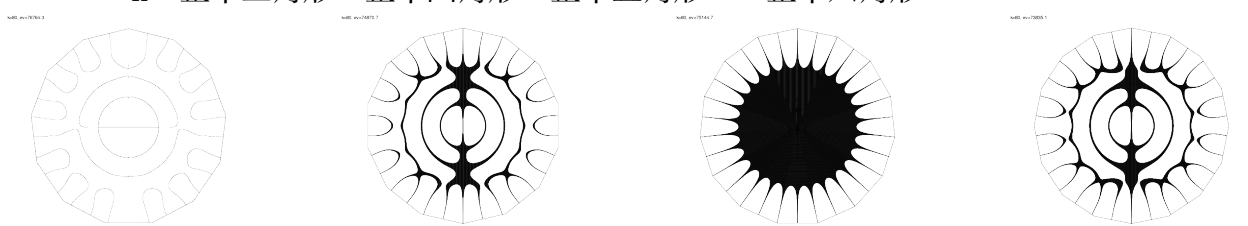


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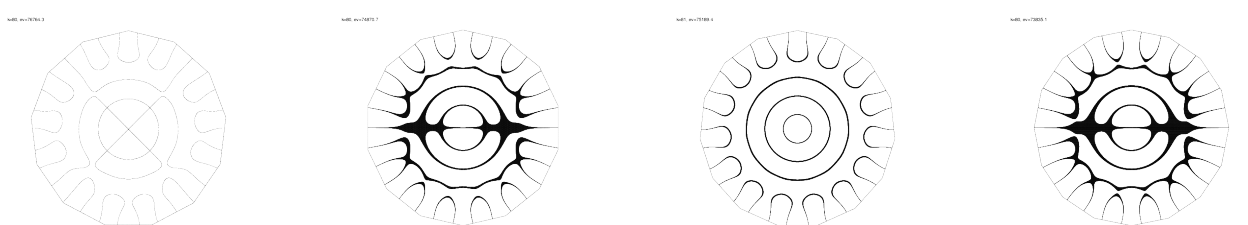


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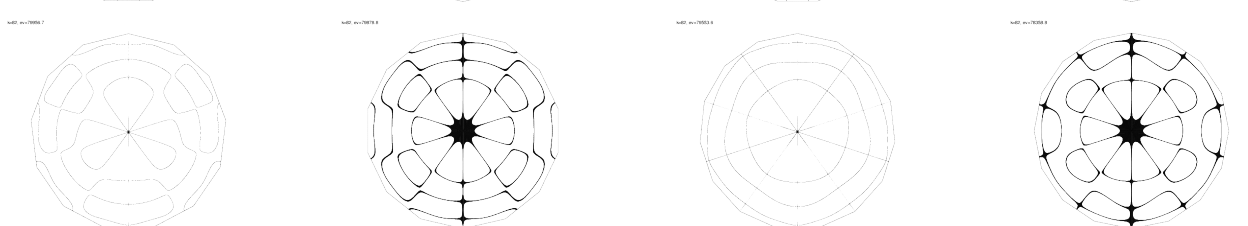
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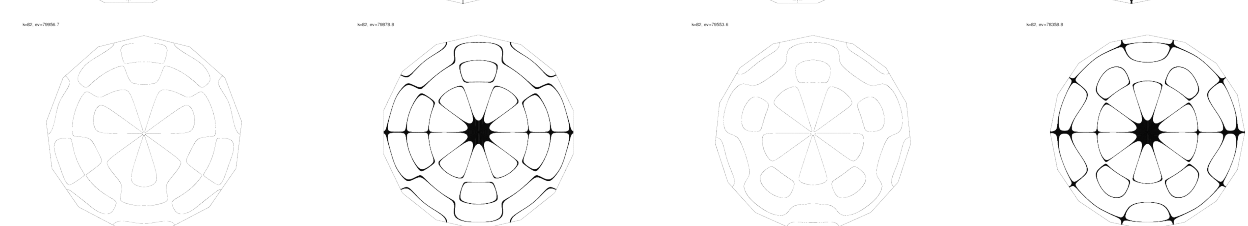
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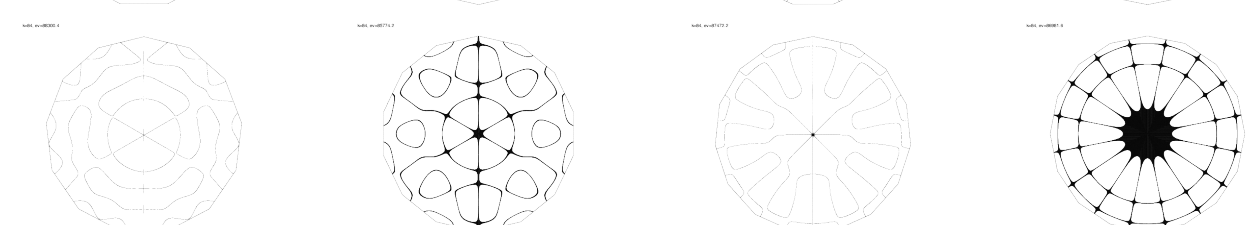
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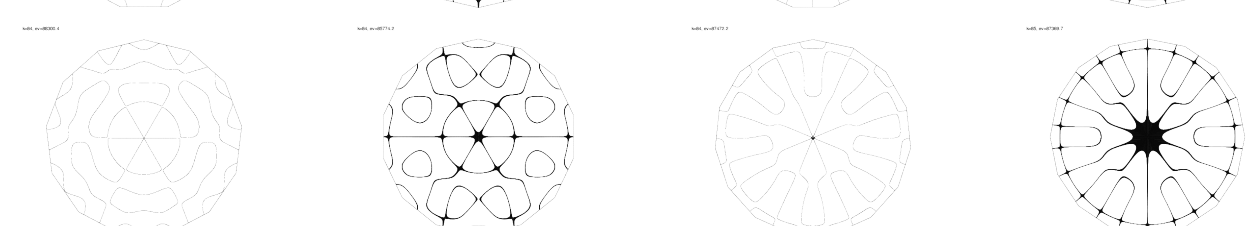
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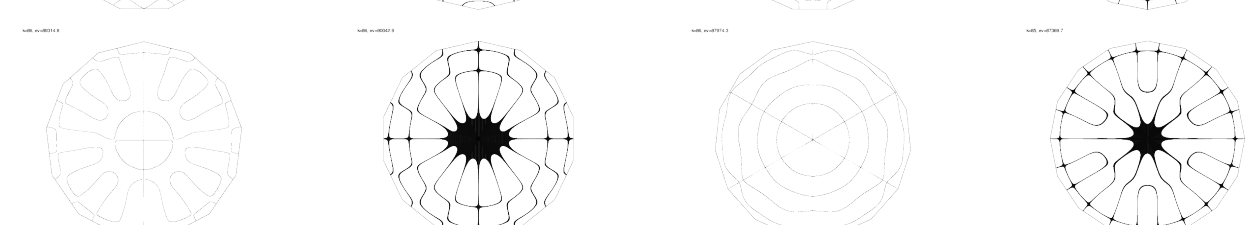
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86



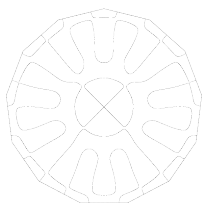
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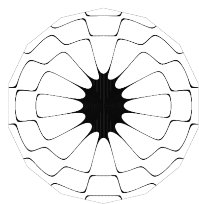
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88

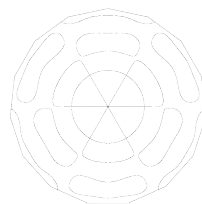
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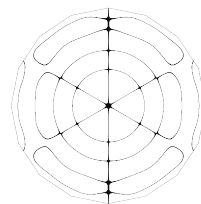
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4456-ku0013.1

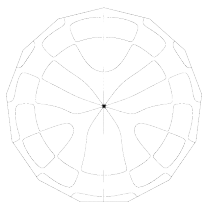


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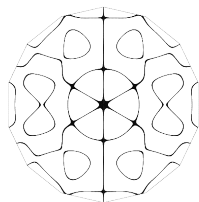


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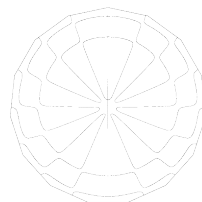
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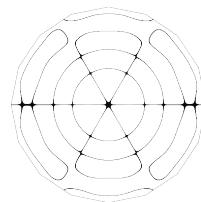
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4456-ku0020.1

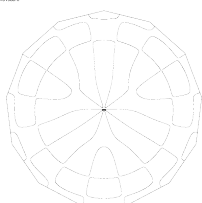


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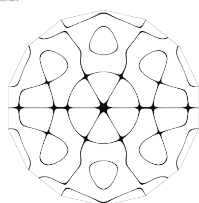


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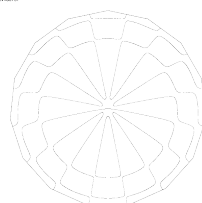
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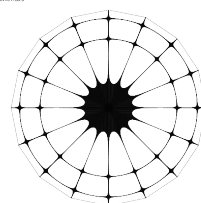
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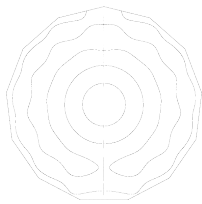


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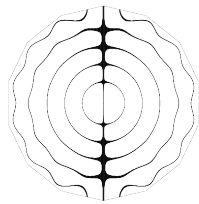


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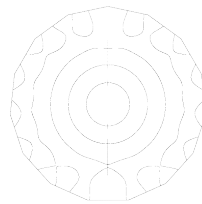
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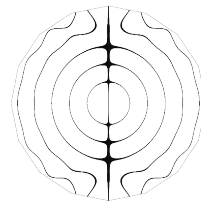
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4456-ku0021.1

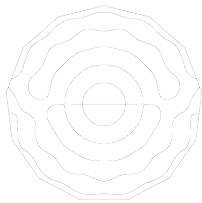


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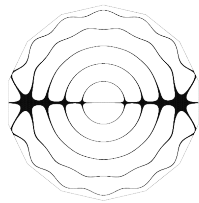


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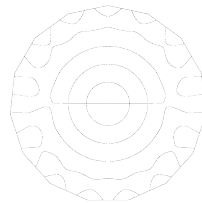
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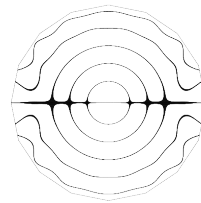
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4456-ku0021.1

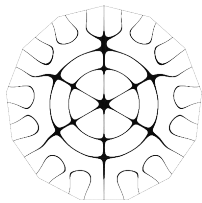


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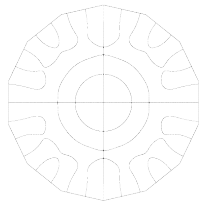


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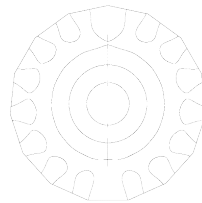
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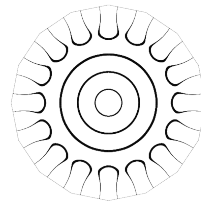
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4456-ku0029.1

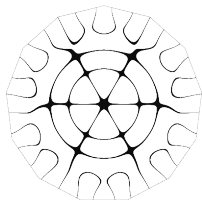


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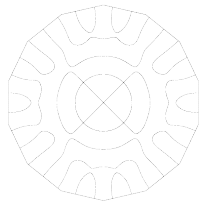


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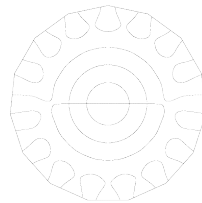
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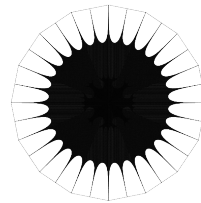
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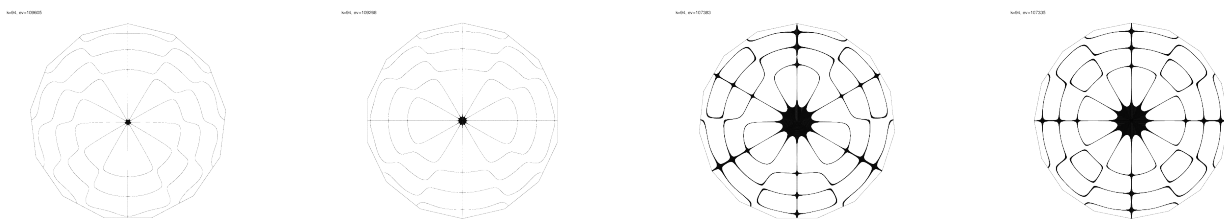


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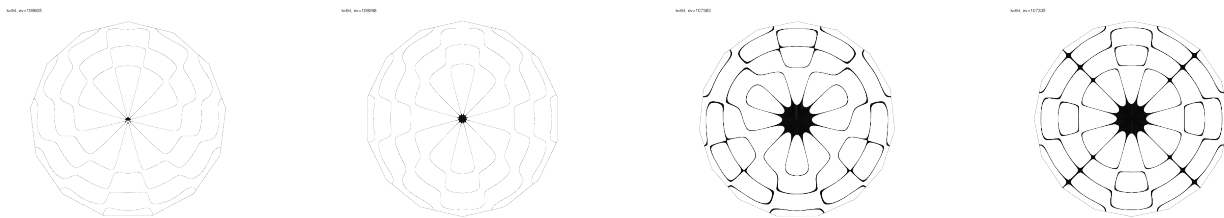


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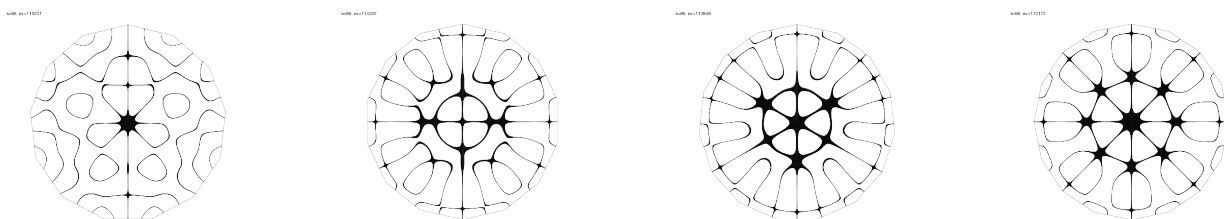
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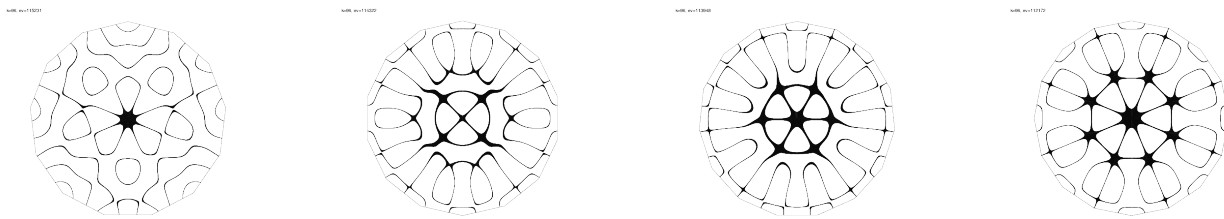
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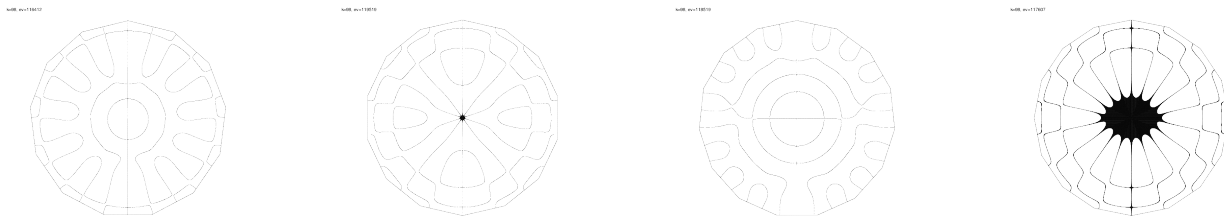
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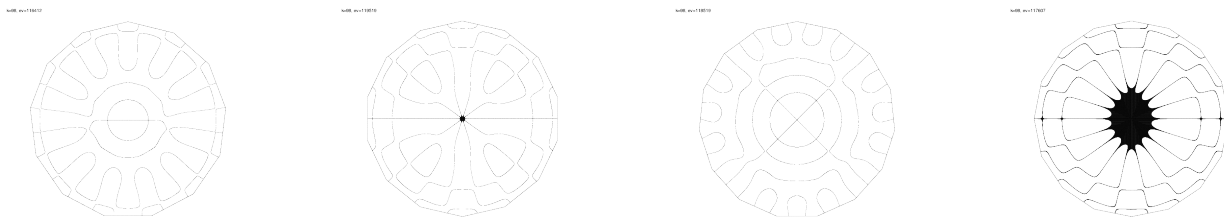
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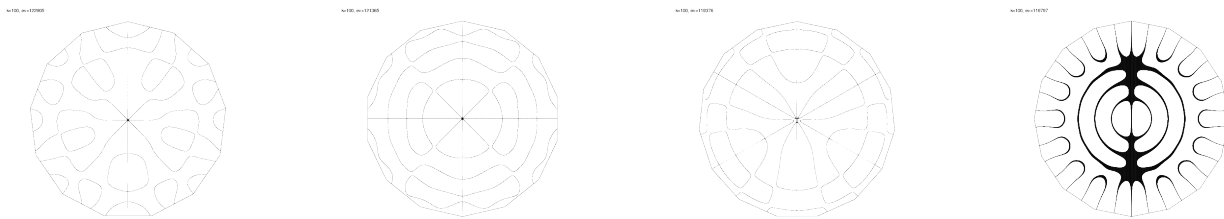
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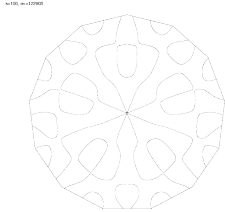
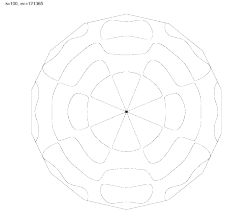
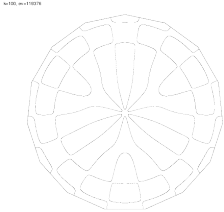
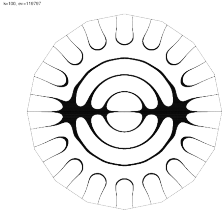
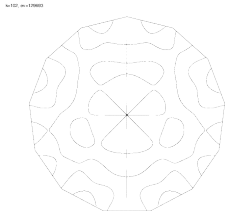
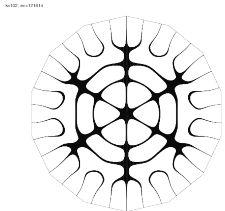
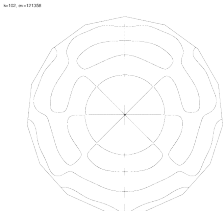
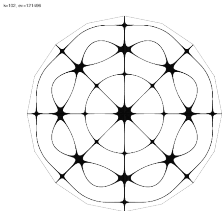
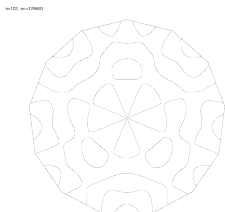
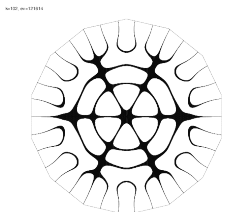
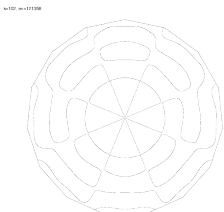
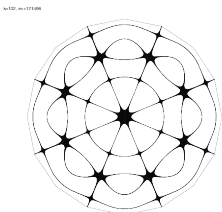
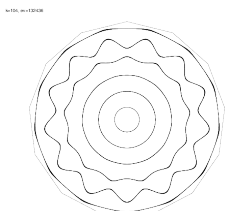
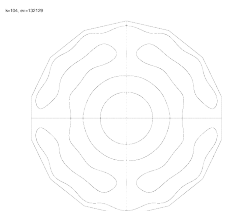
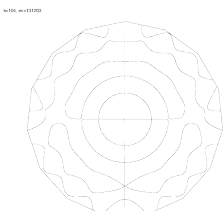
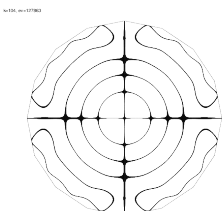
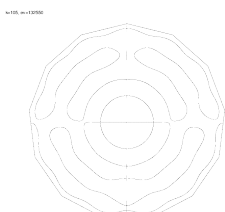
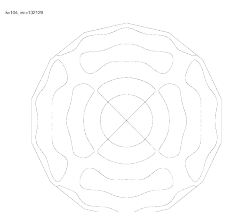
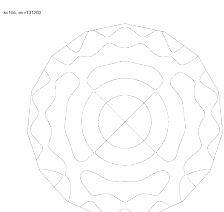
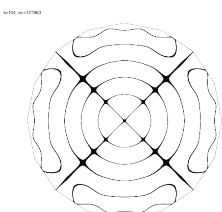
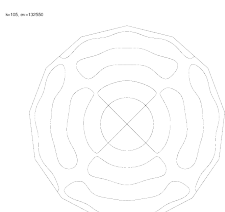
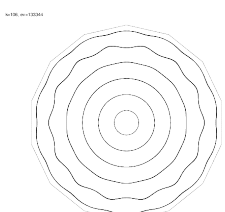
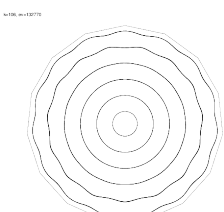
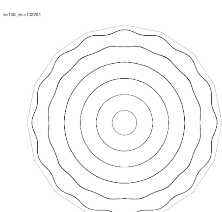
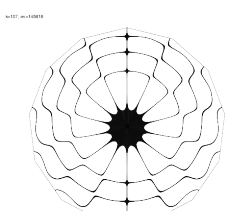
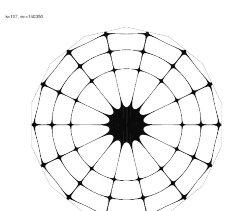
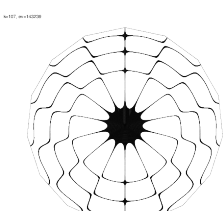
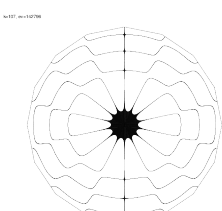
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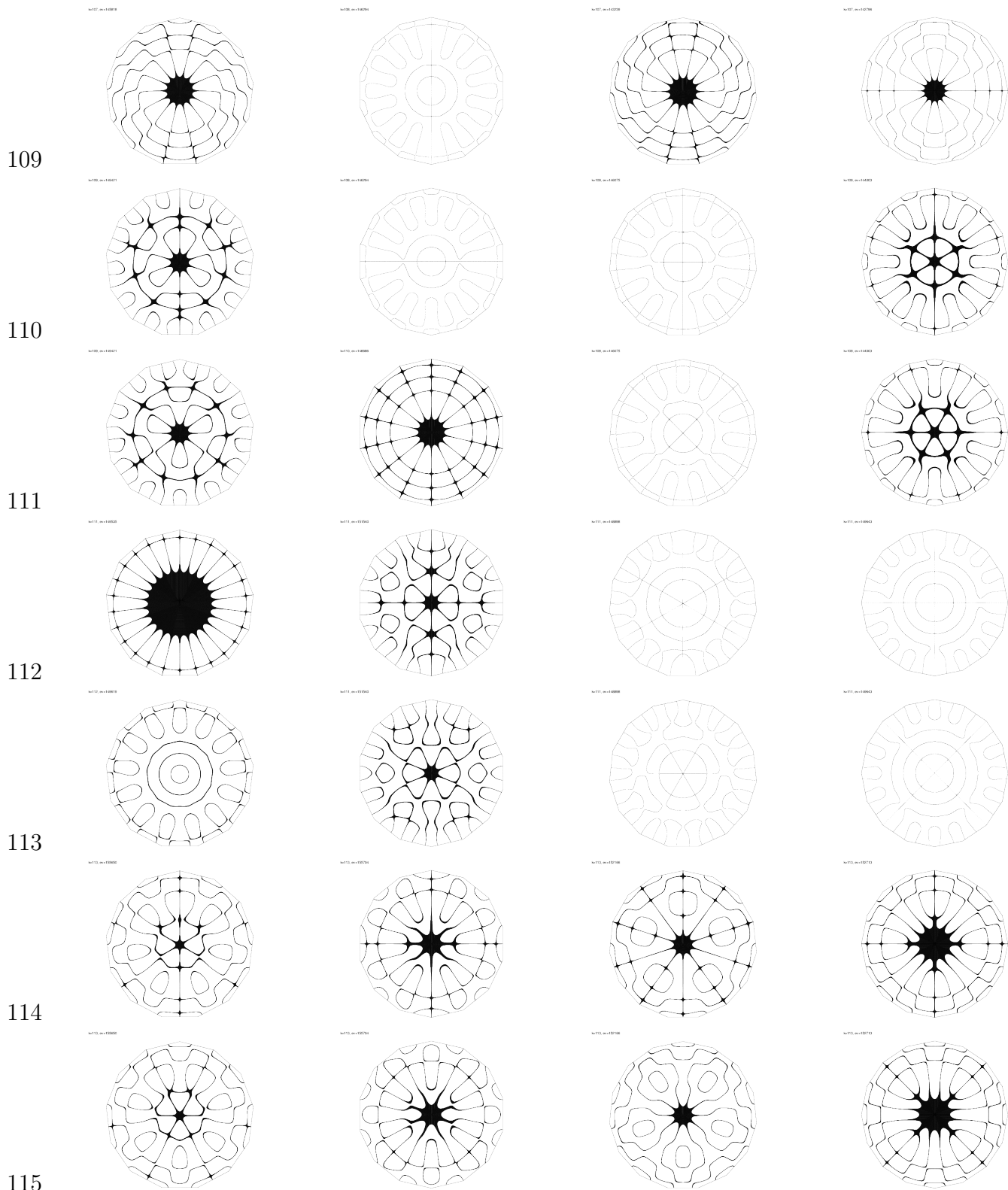
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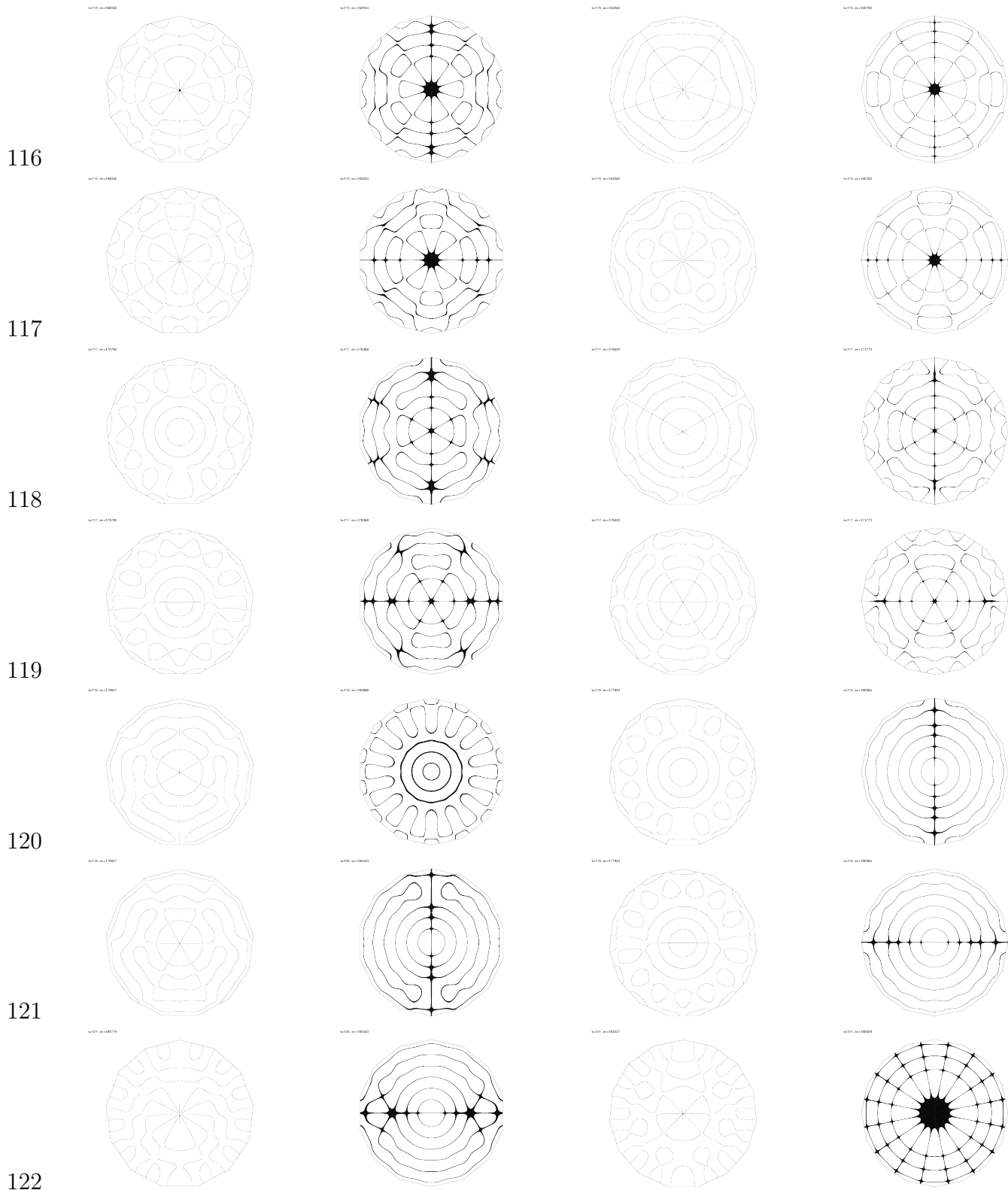
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102				
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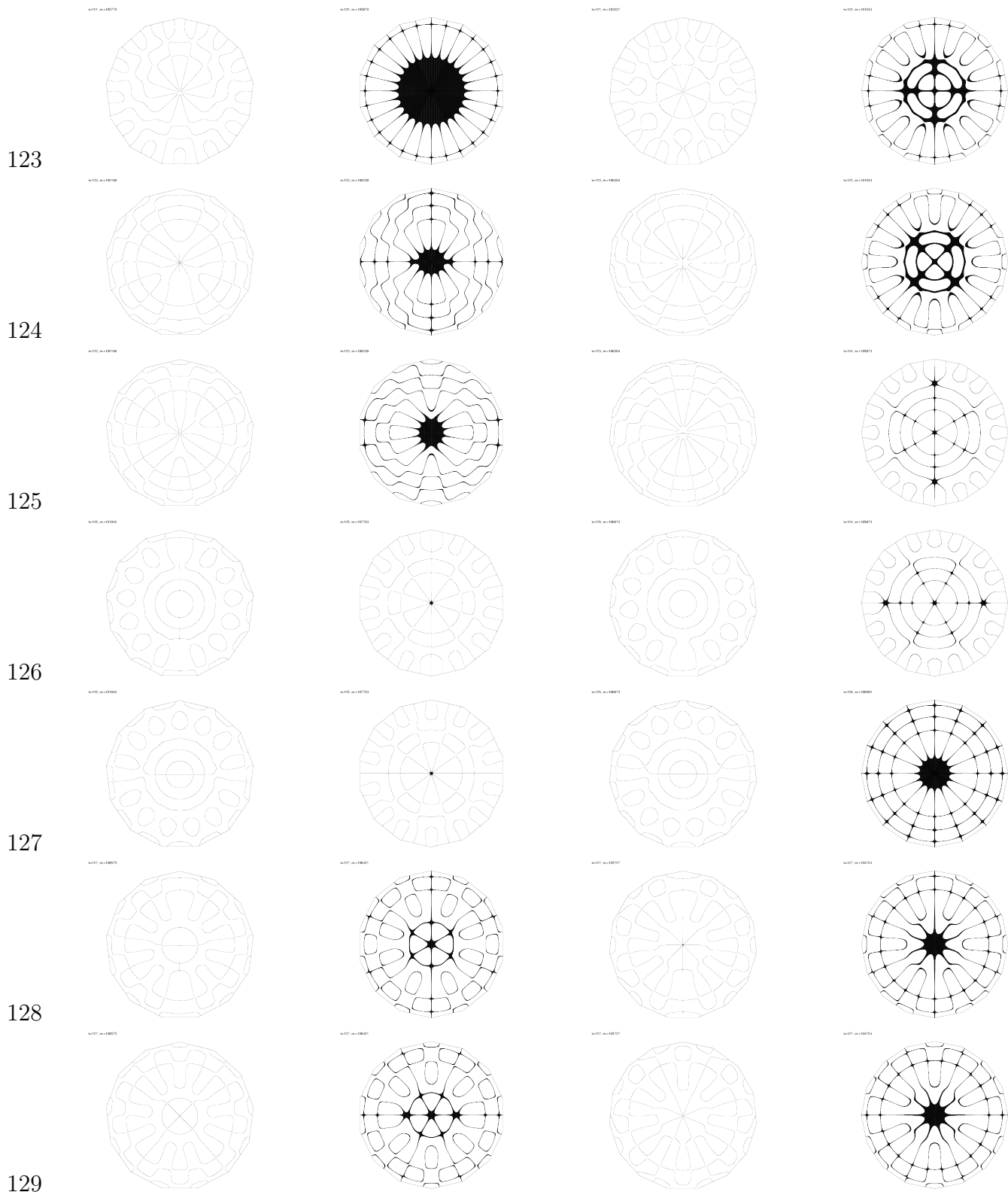
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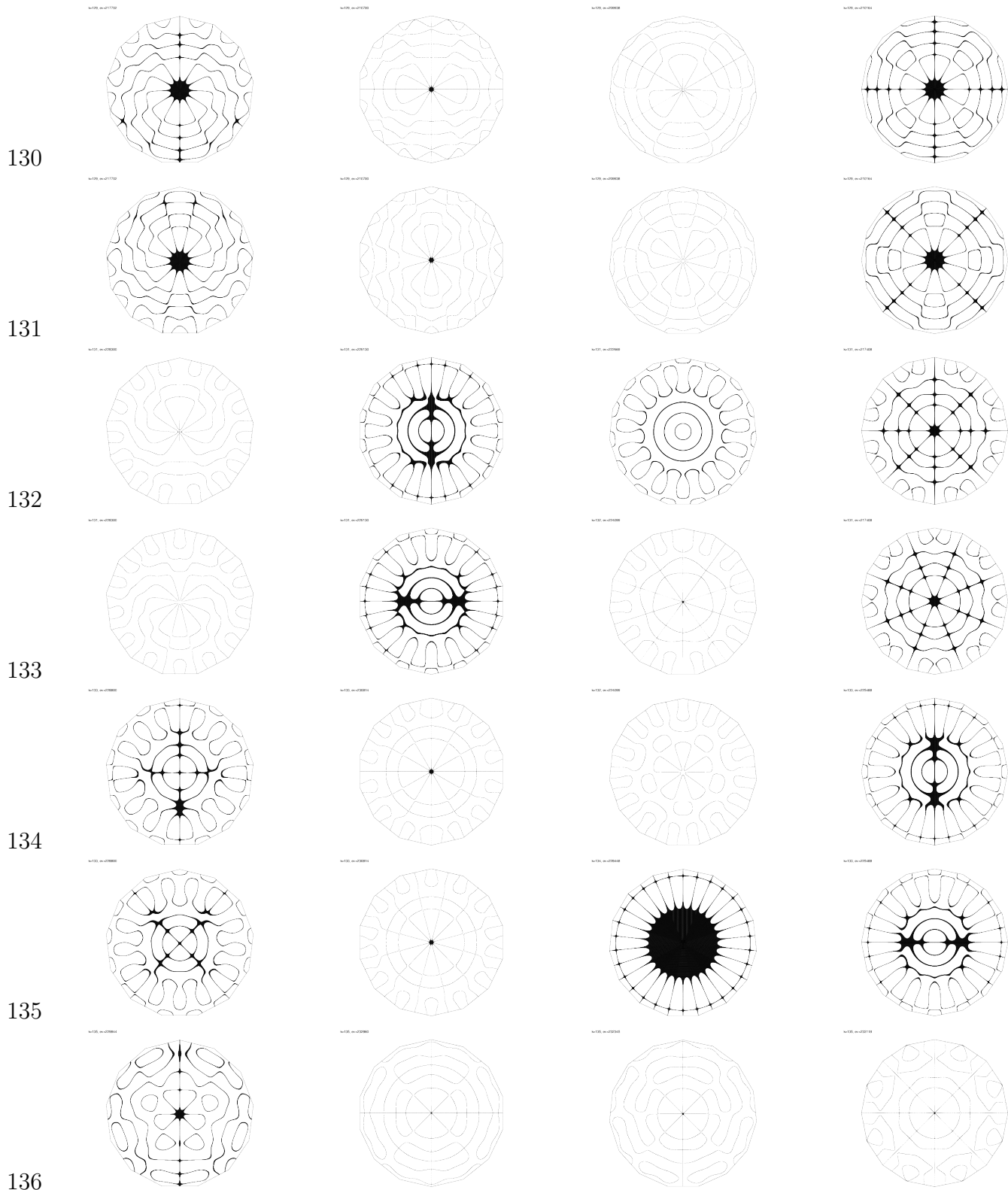
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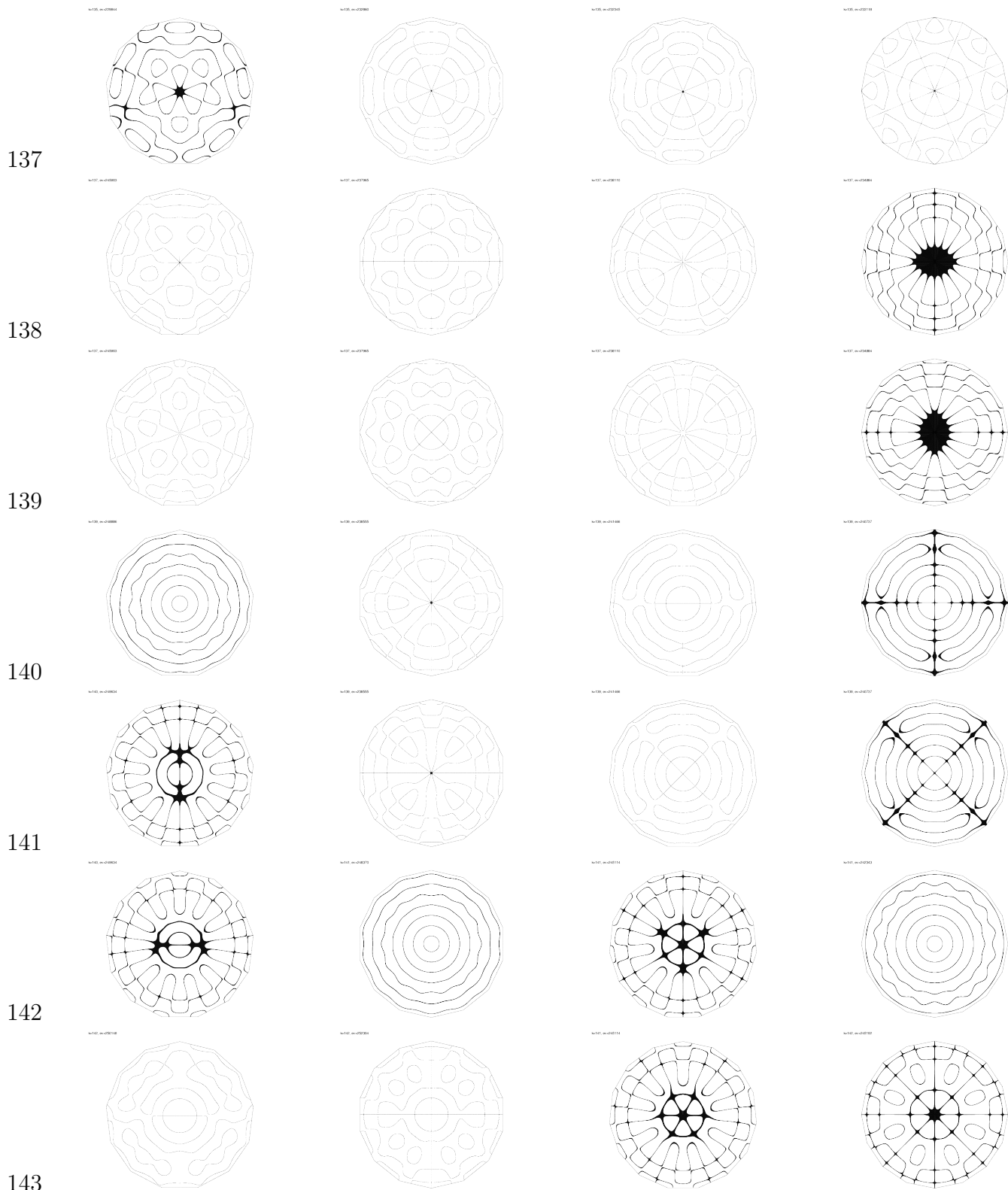
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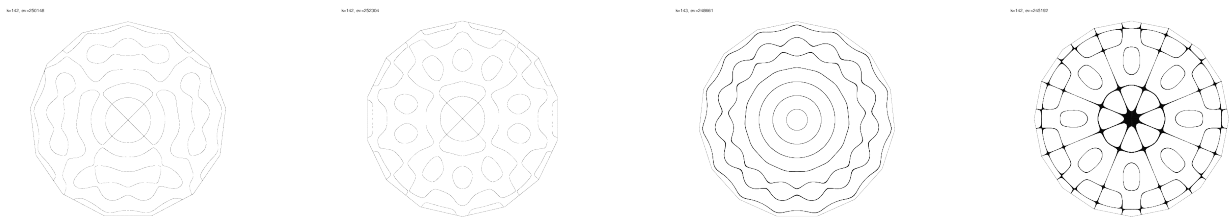


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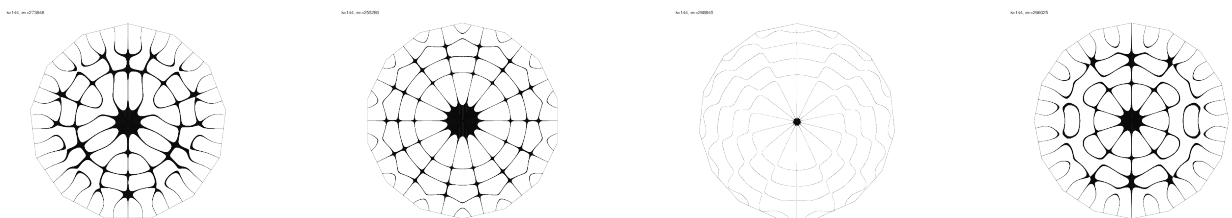


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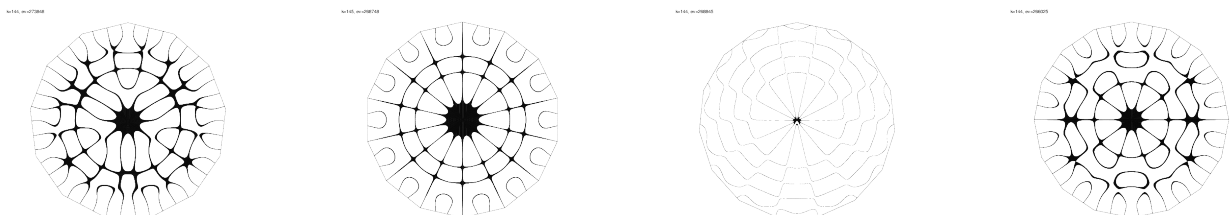
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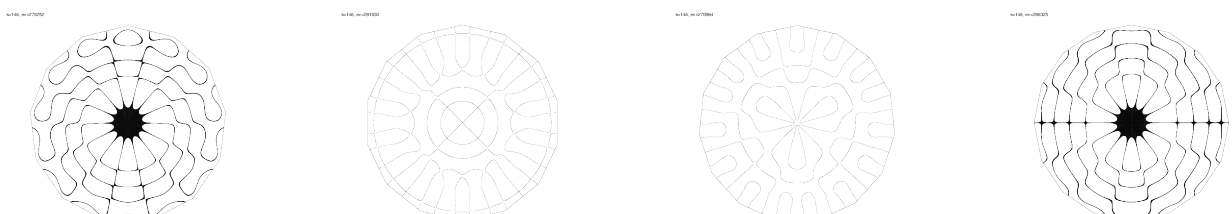
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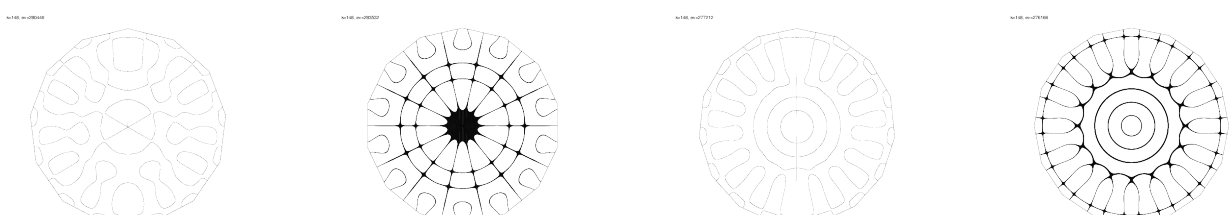
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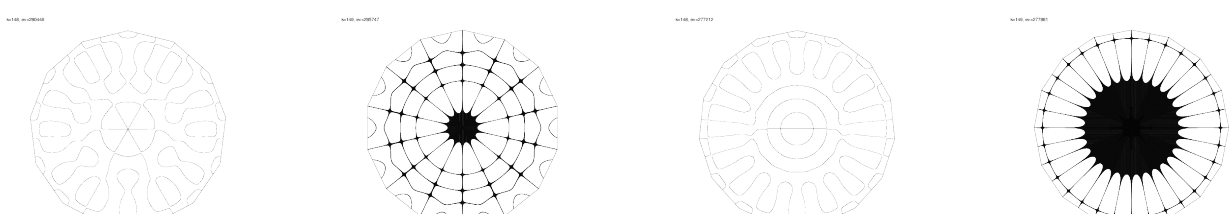
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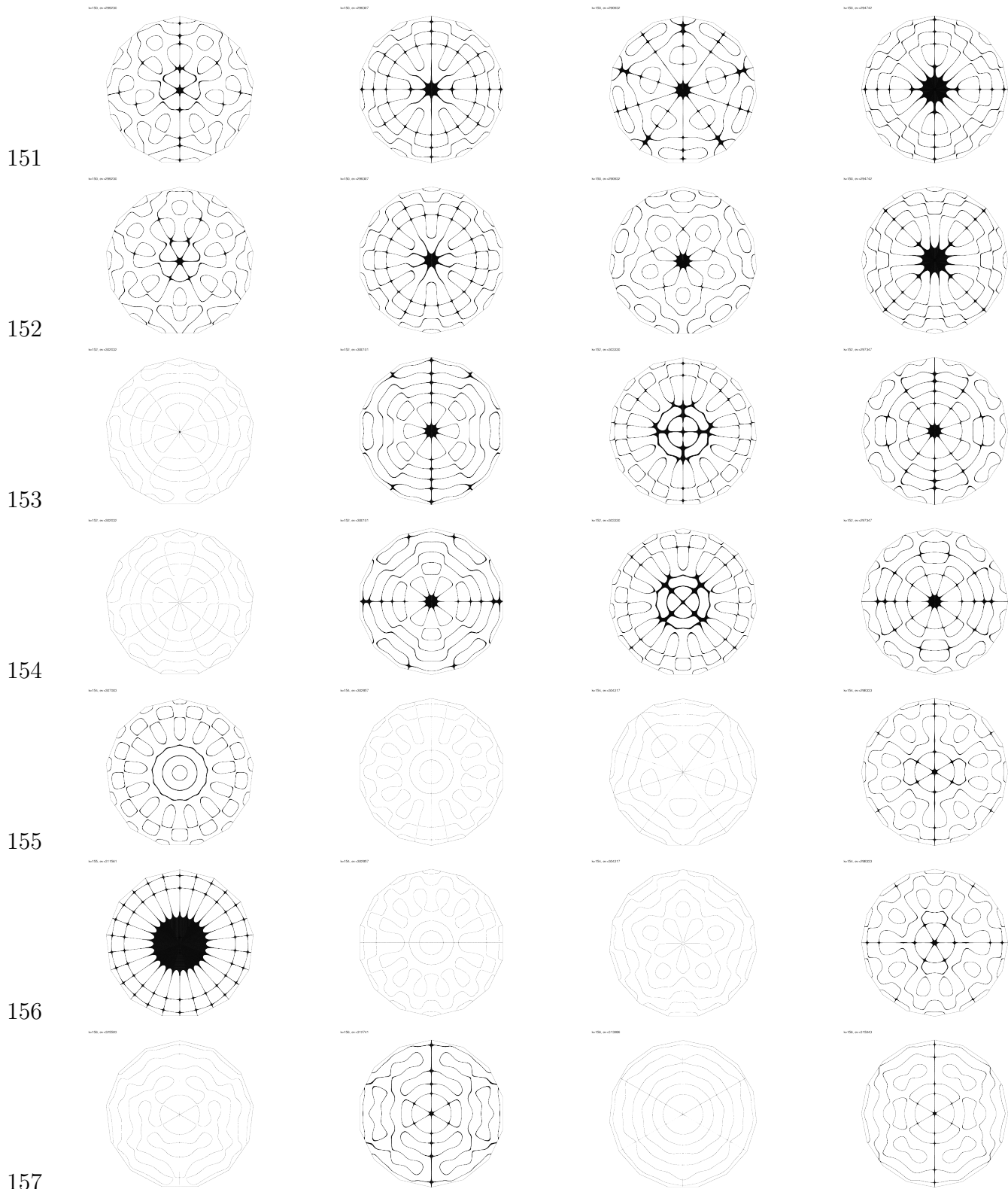
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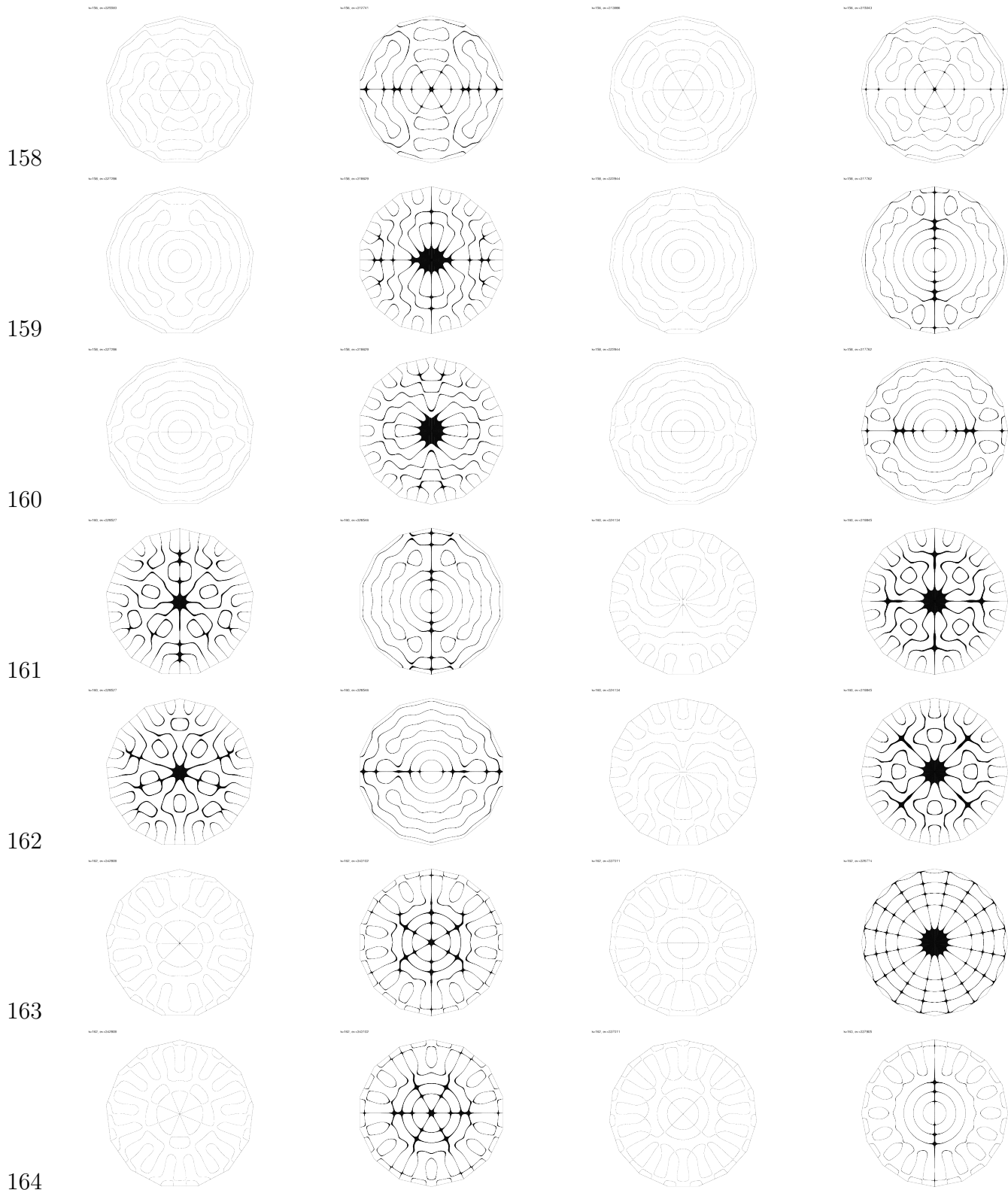
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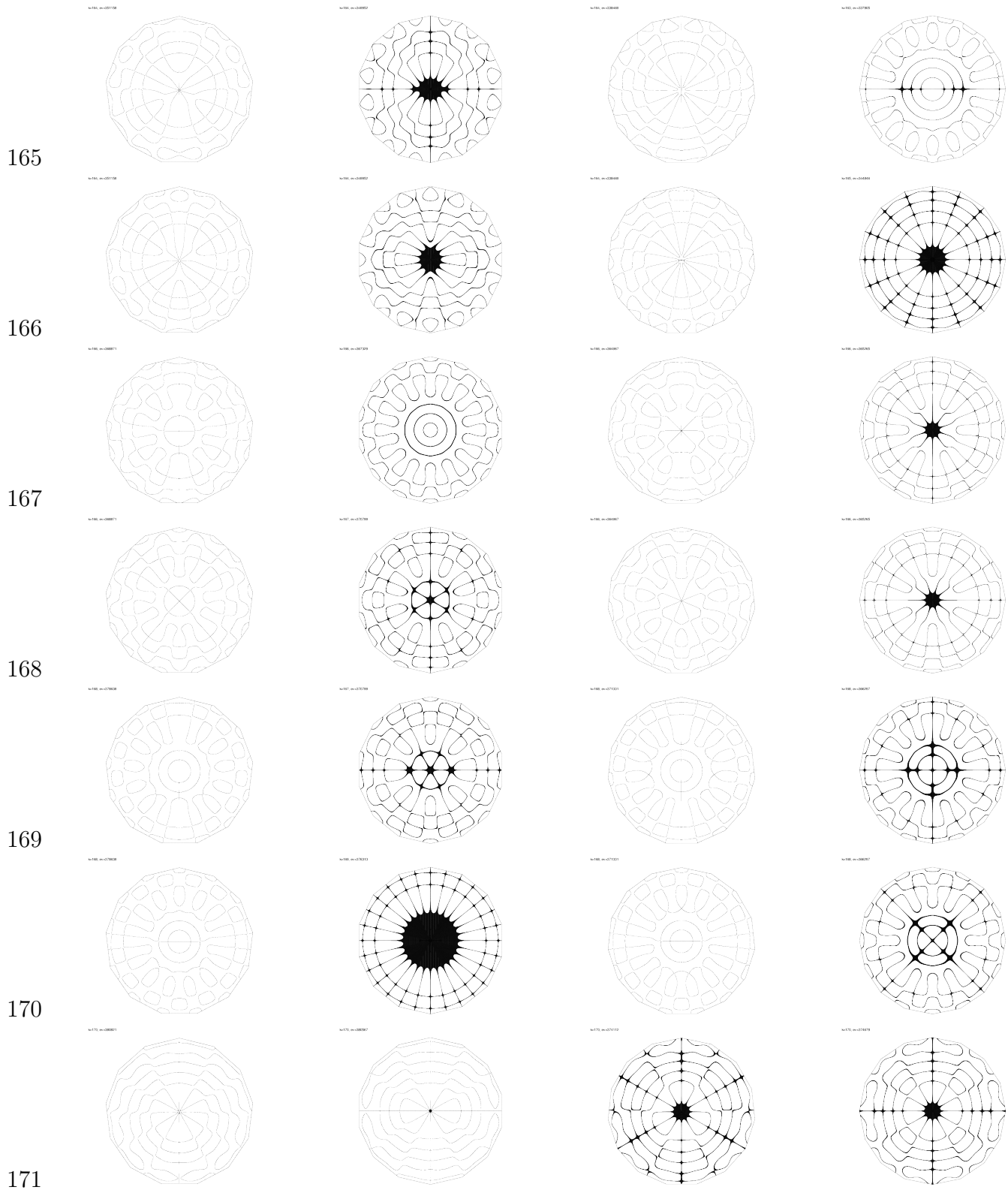
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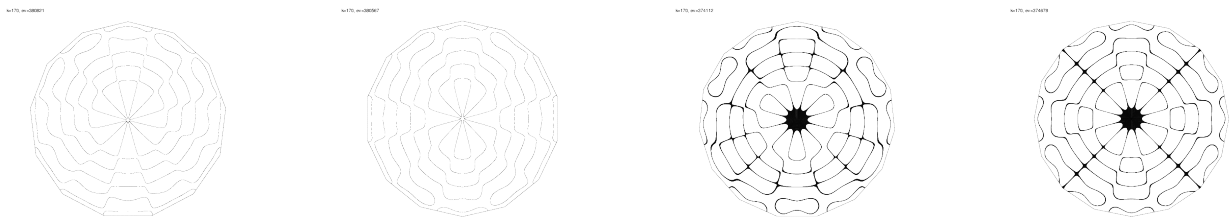


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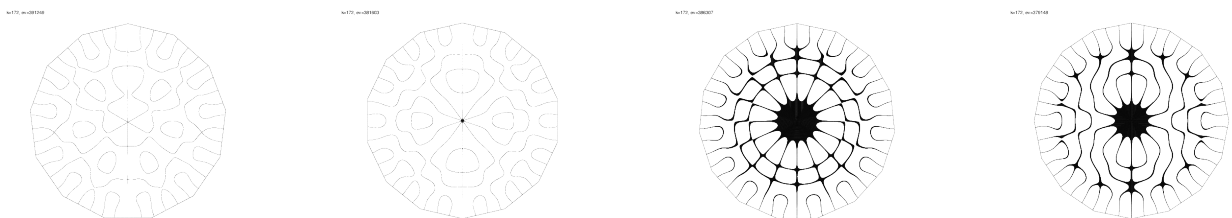


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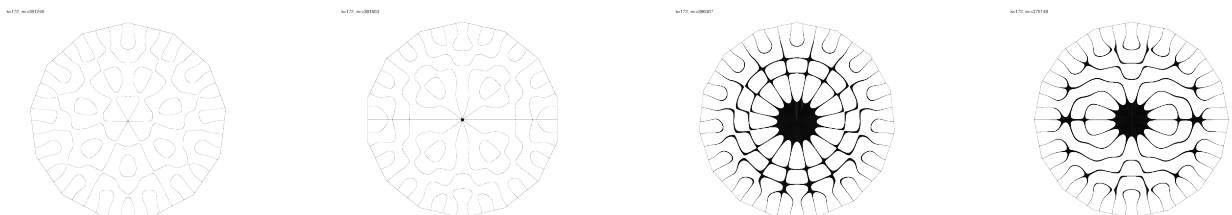
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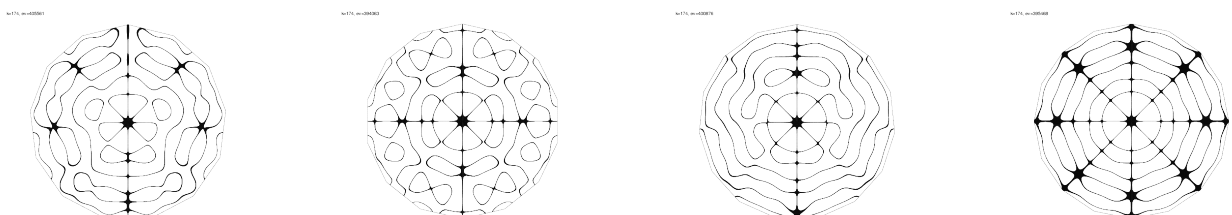
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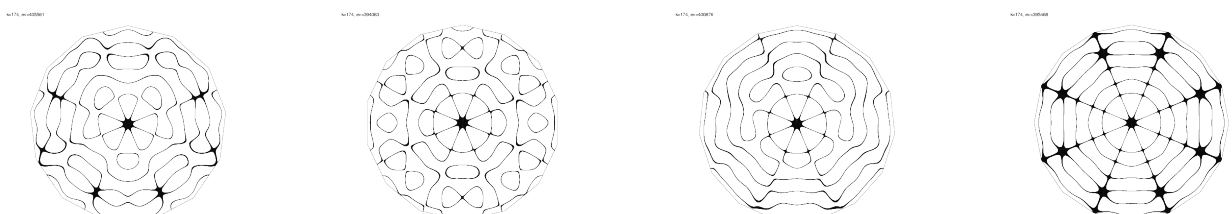
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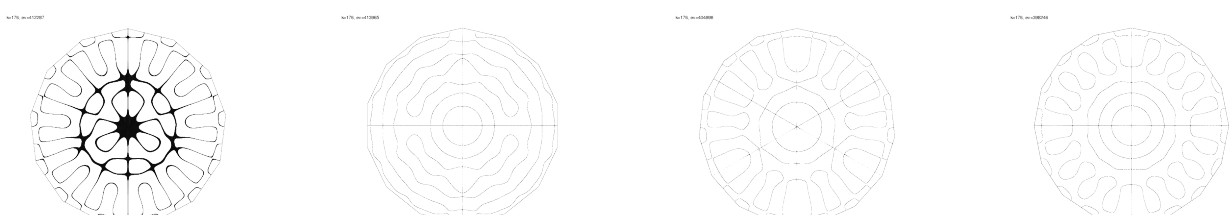
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176



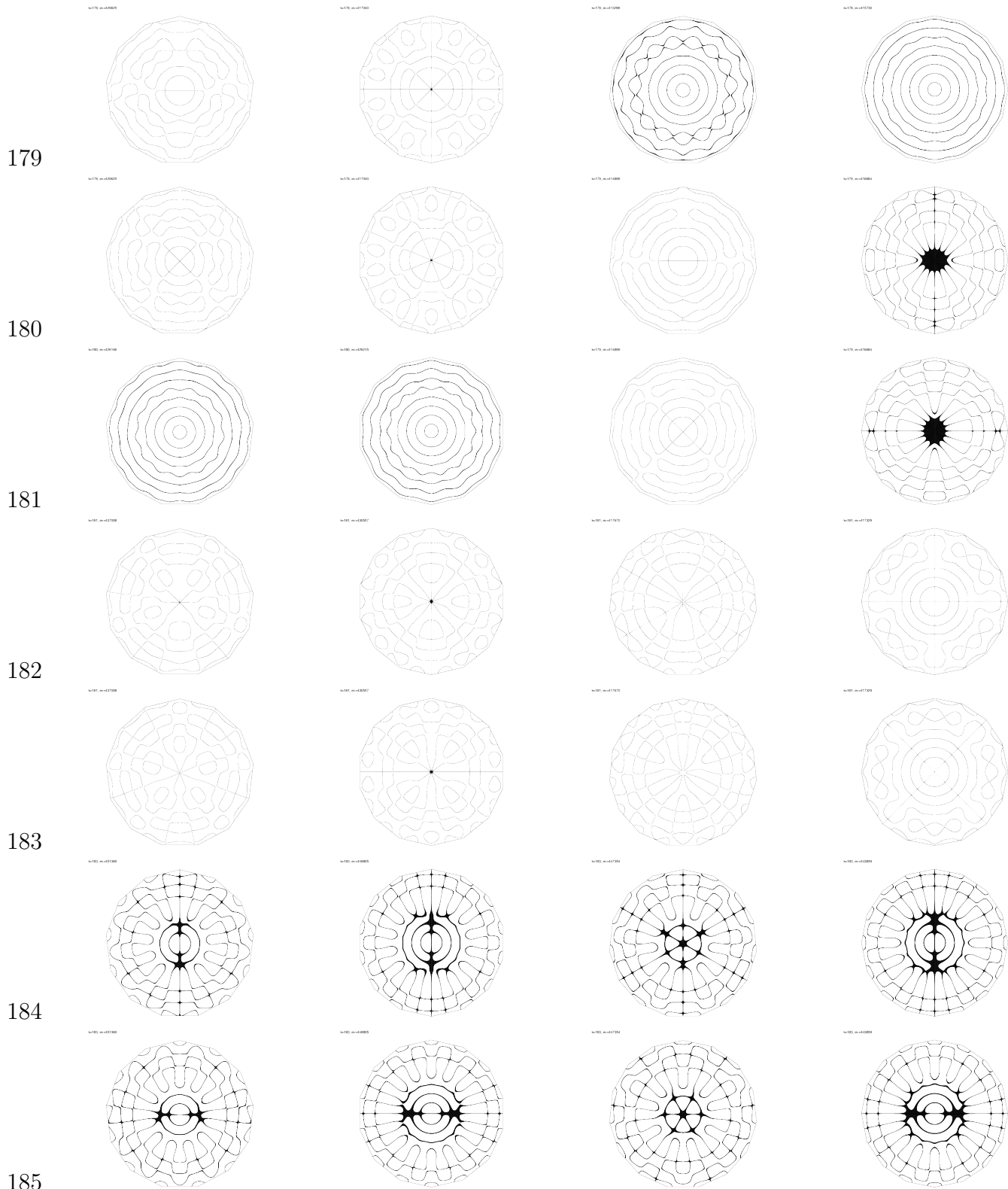
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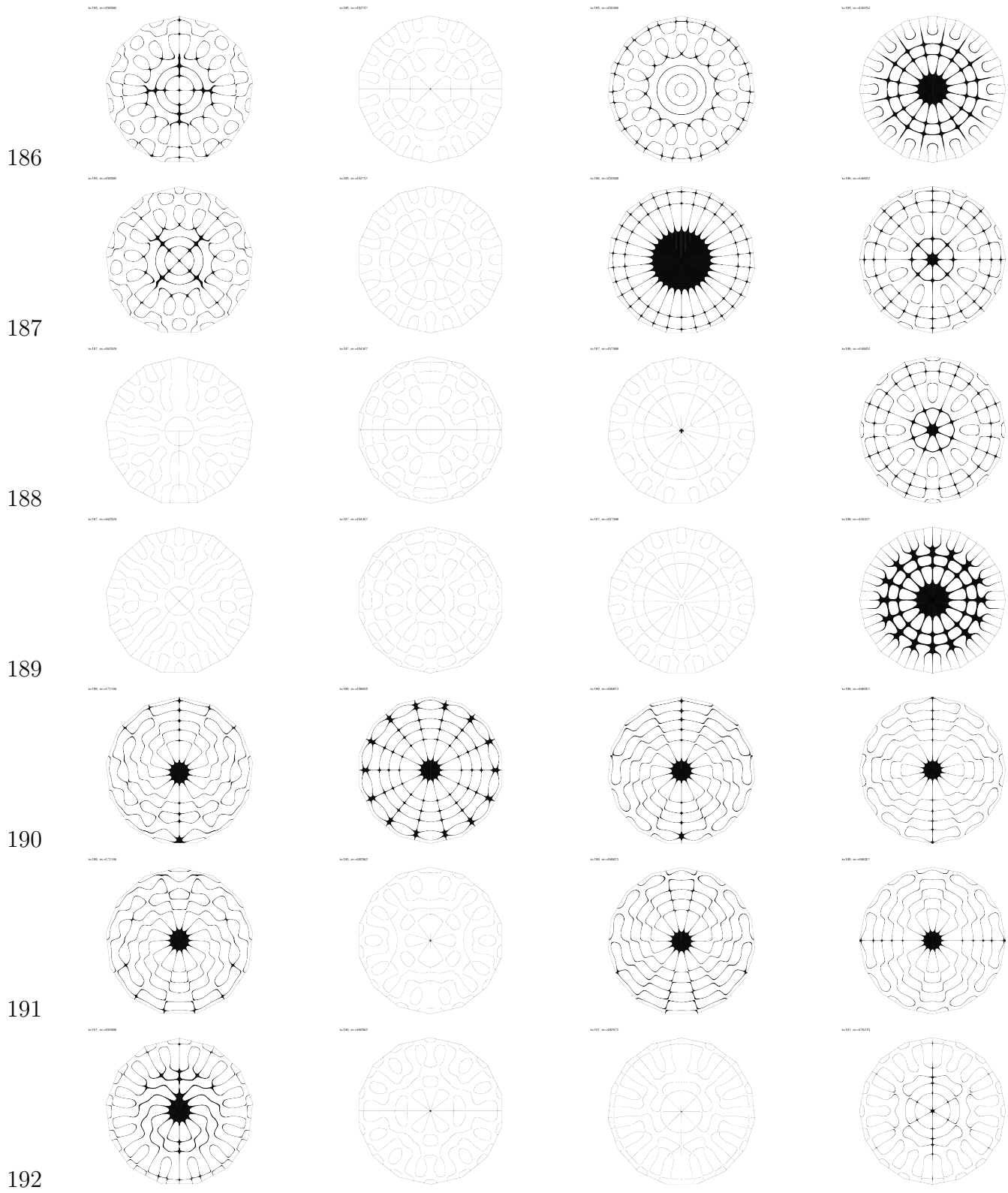
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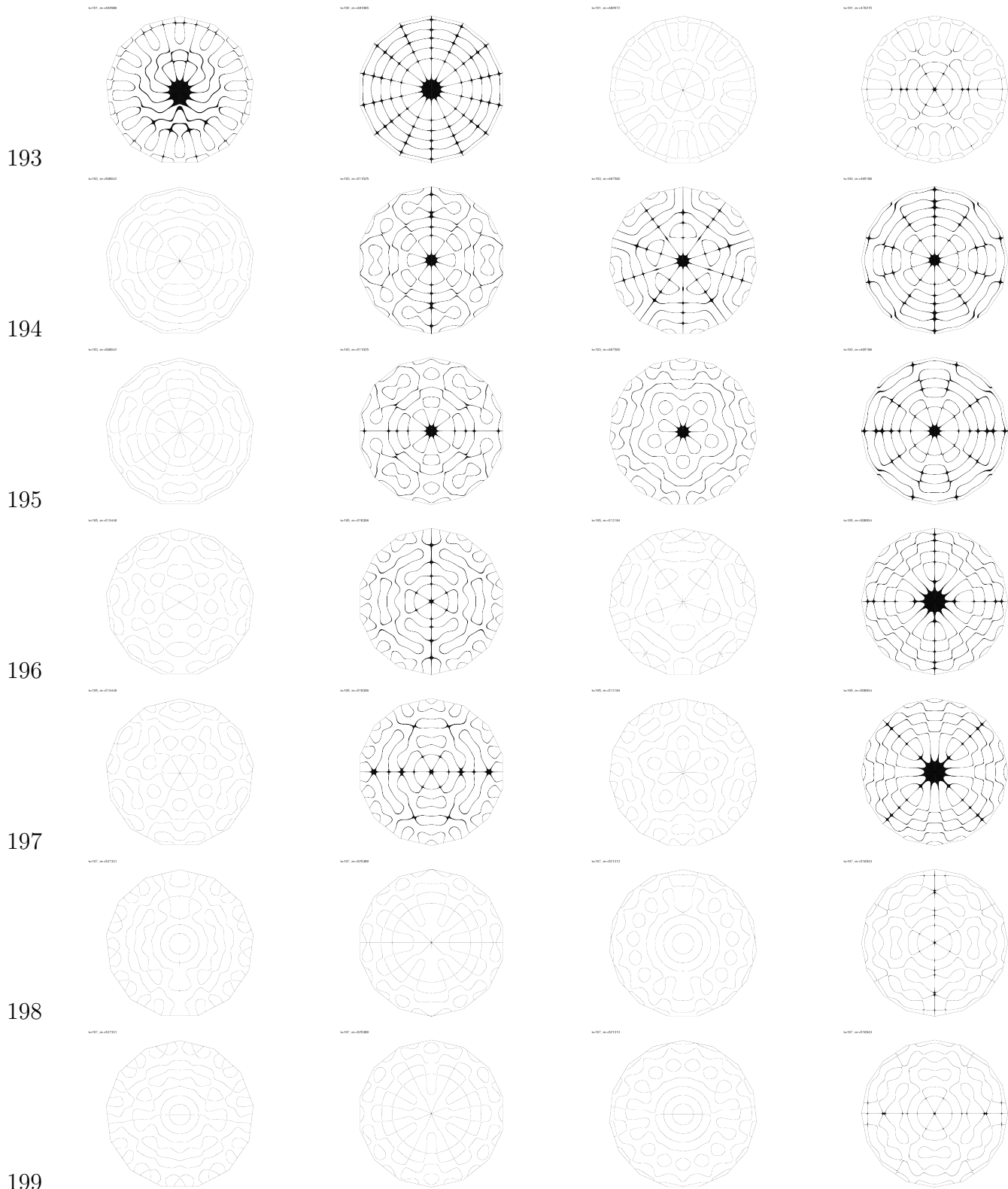
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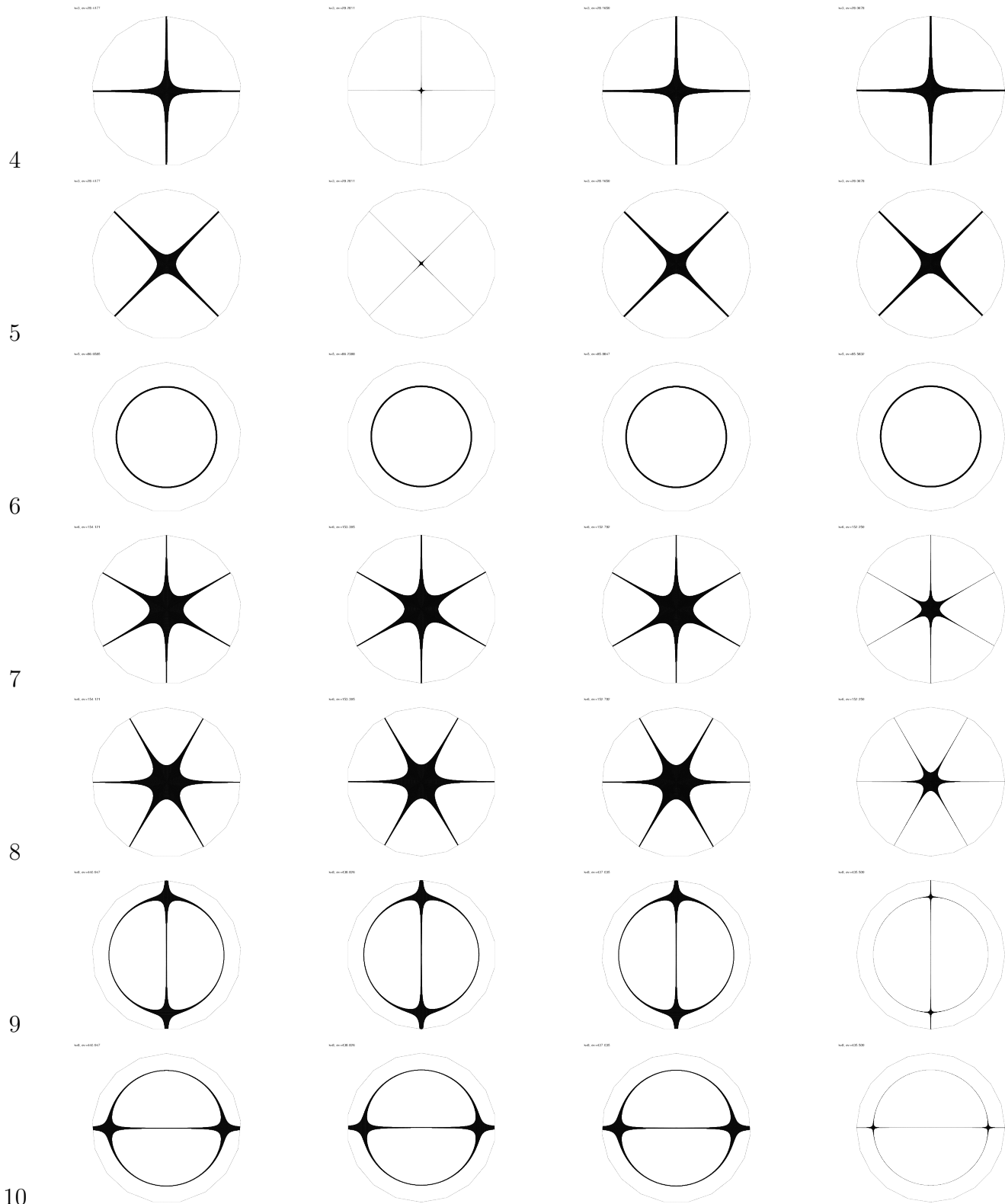
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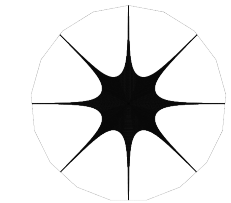
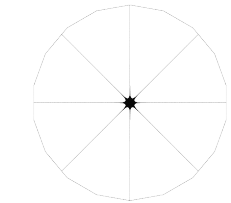
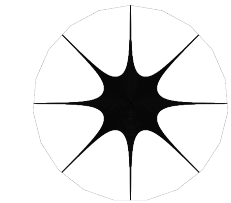
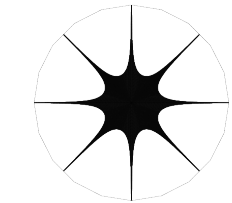
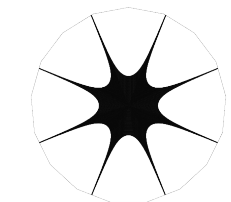
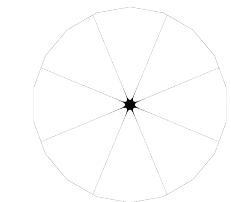
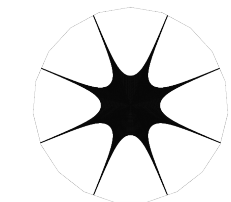
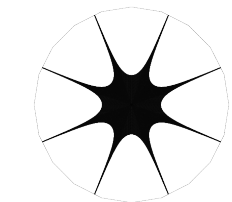
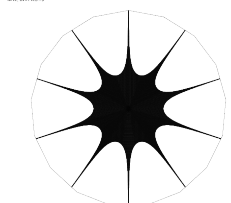
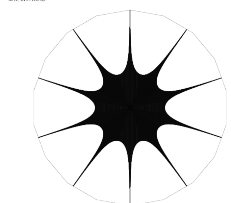
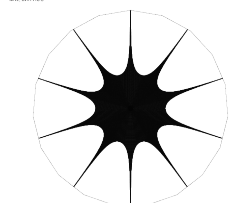
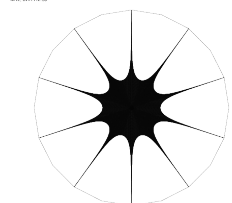
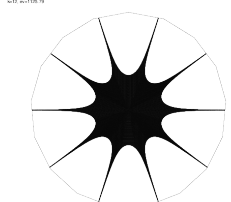
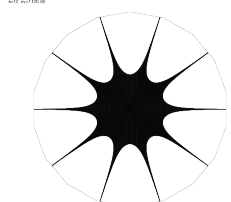
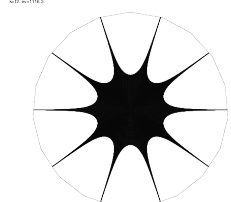
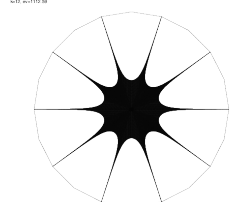
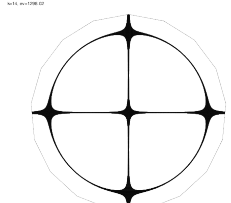
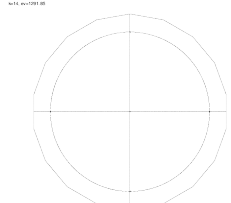
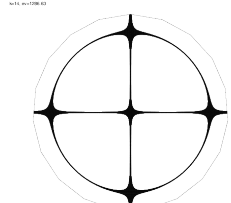
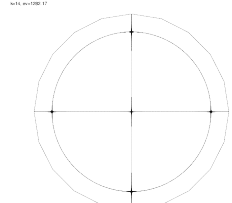
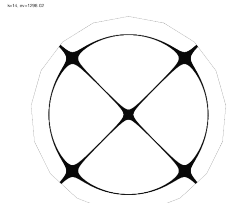
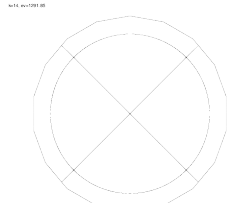
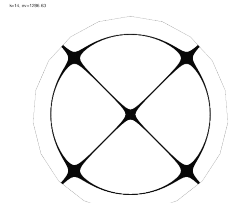
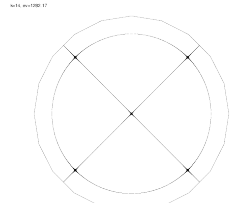
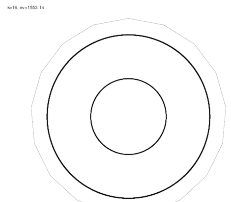
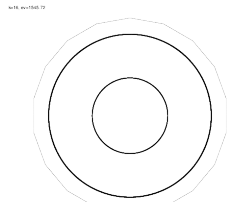
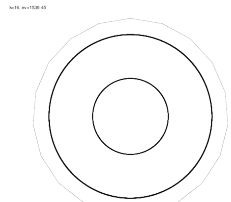
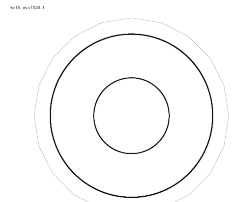
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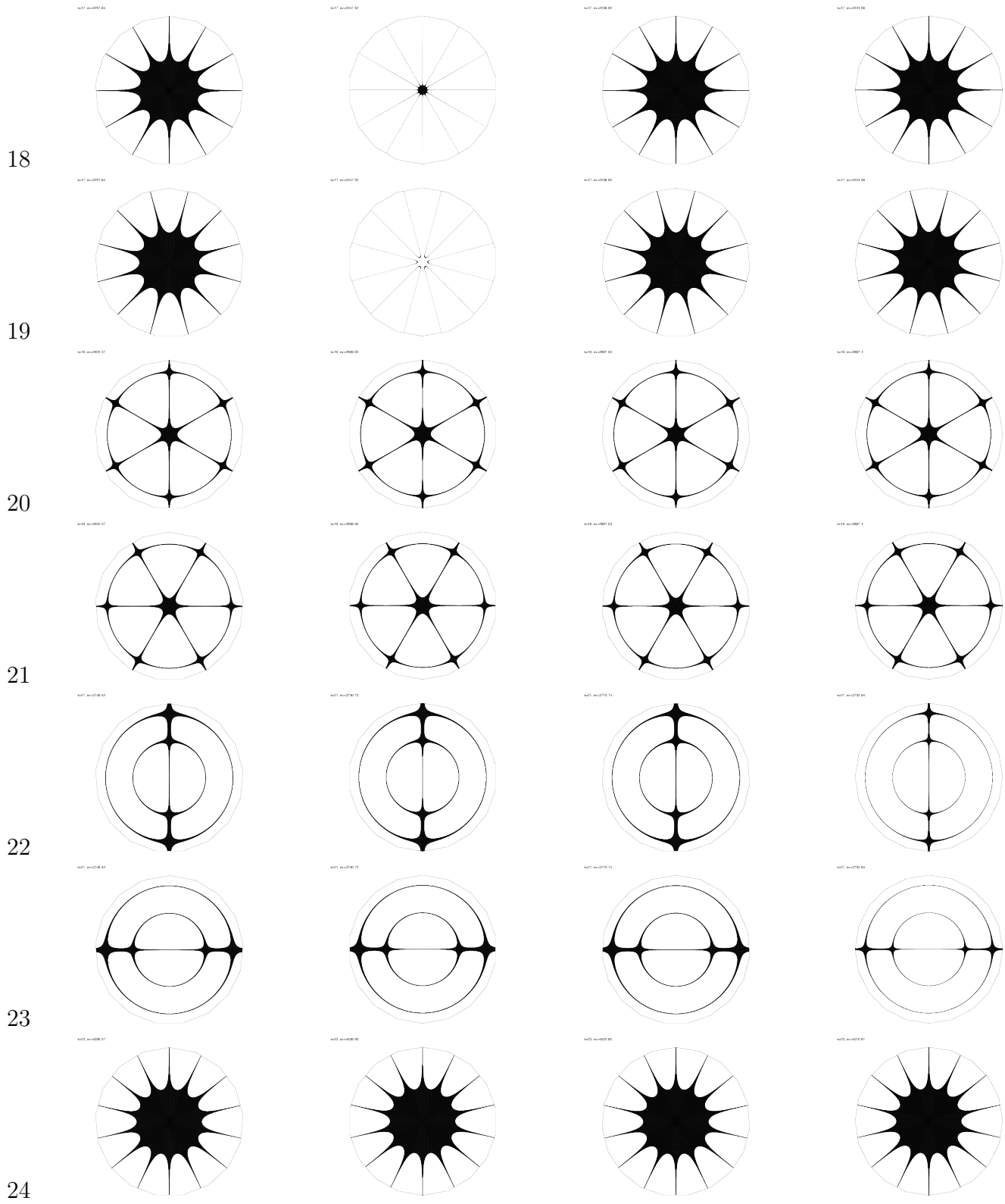
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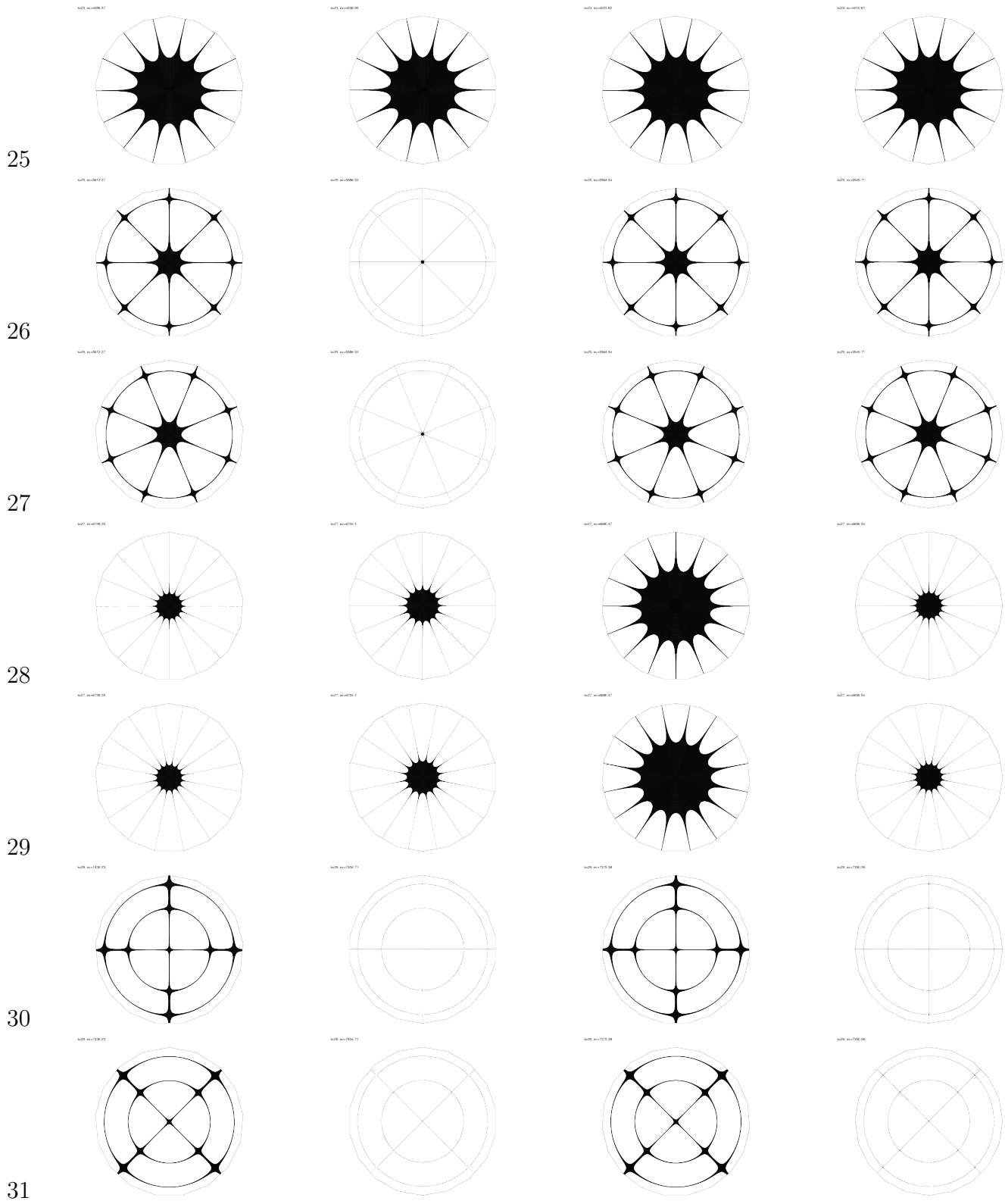
k 正十七角形 正十八角形 正十九角形 正二十角形

11				
12				
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14				
15				
16				
17				

k 正十七角形 正十八角形 正十九角形 正二十角形



k 正十七角形 正十八角形 正十九角形 正二十角形

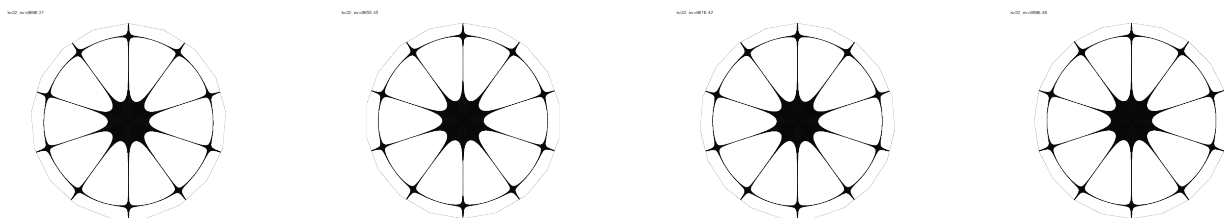


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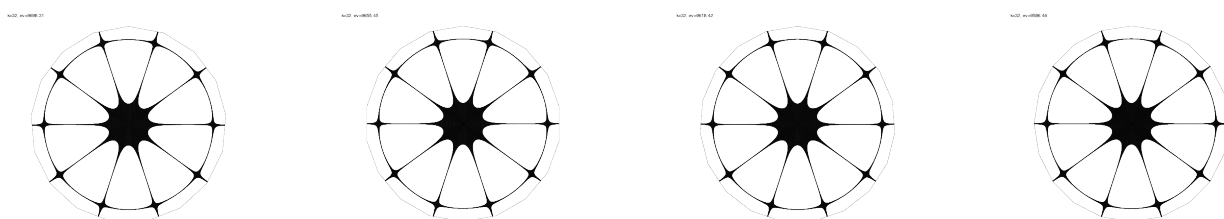
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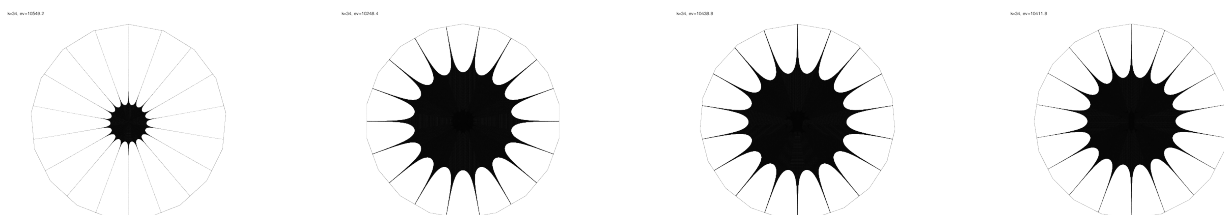
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34



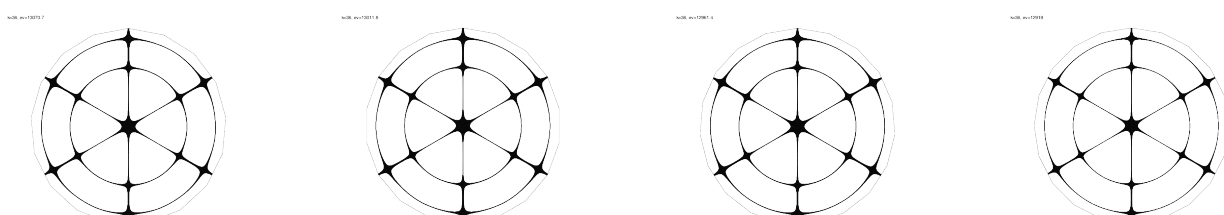
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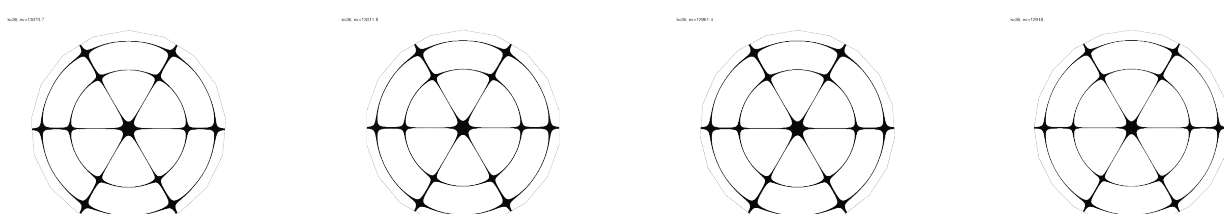
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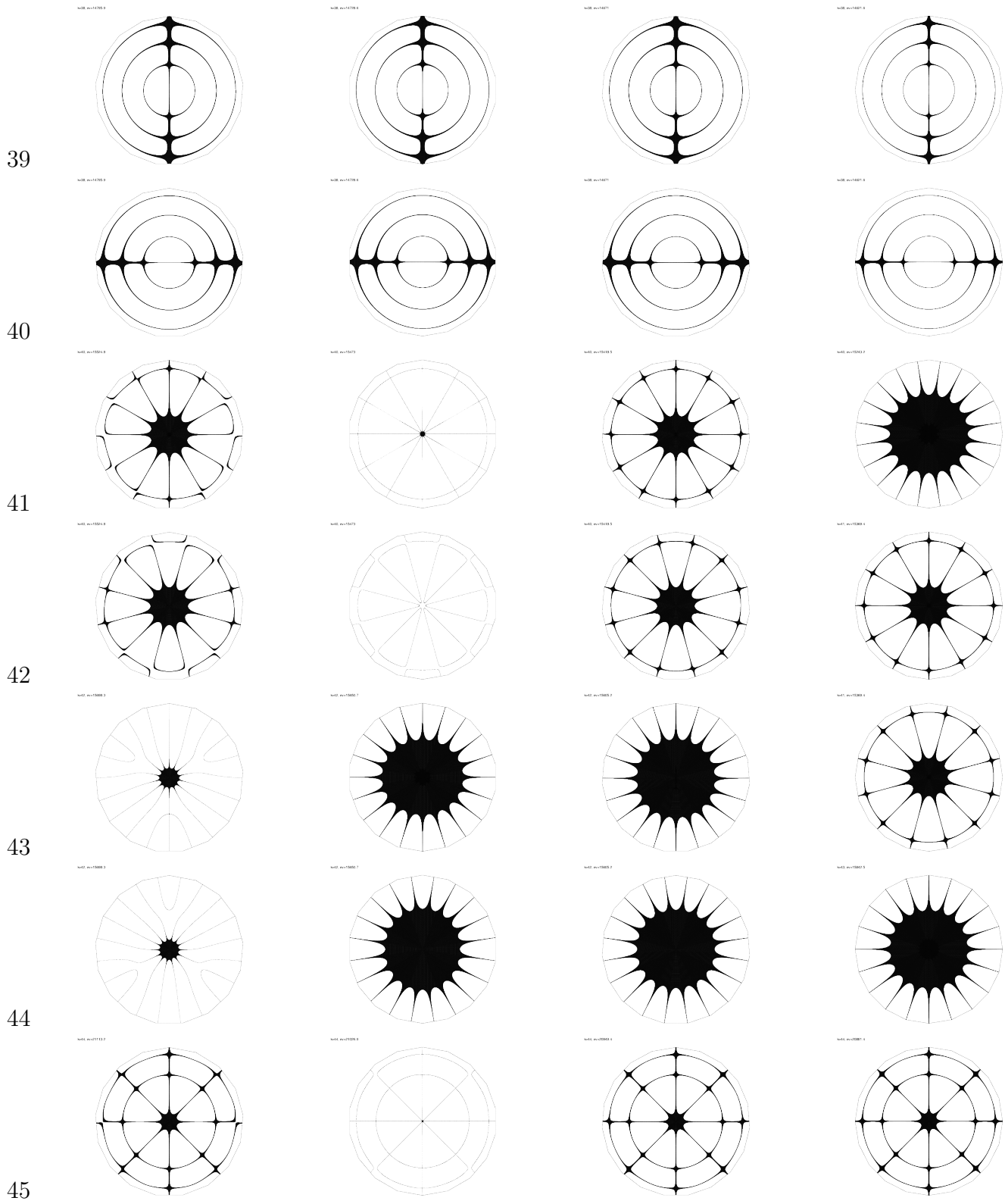
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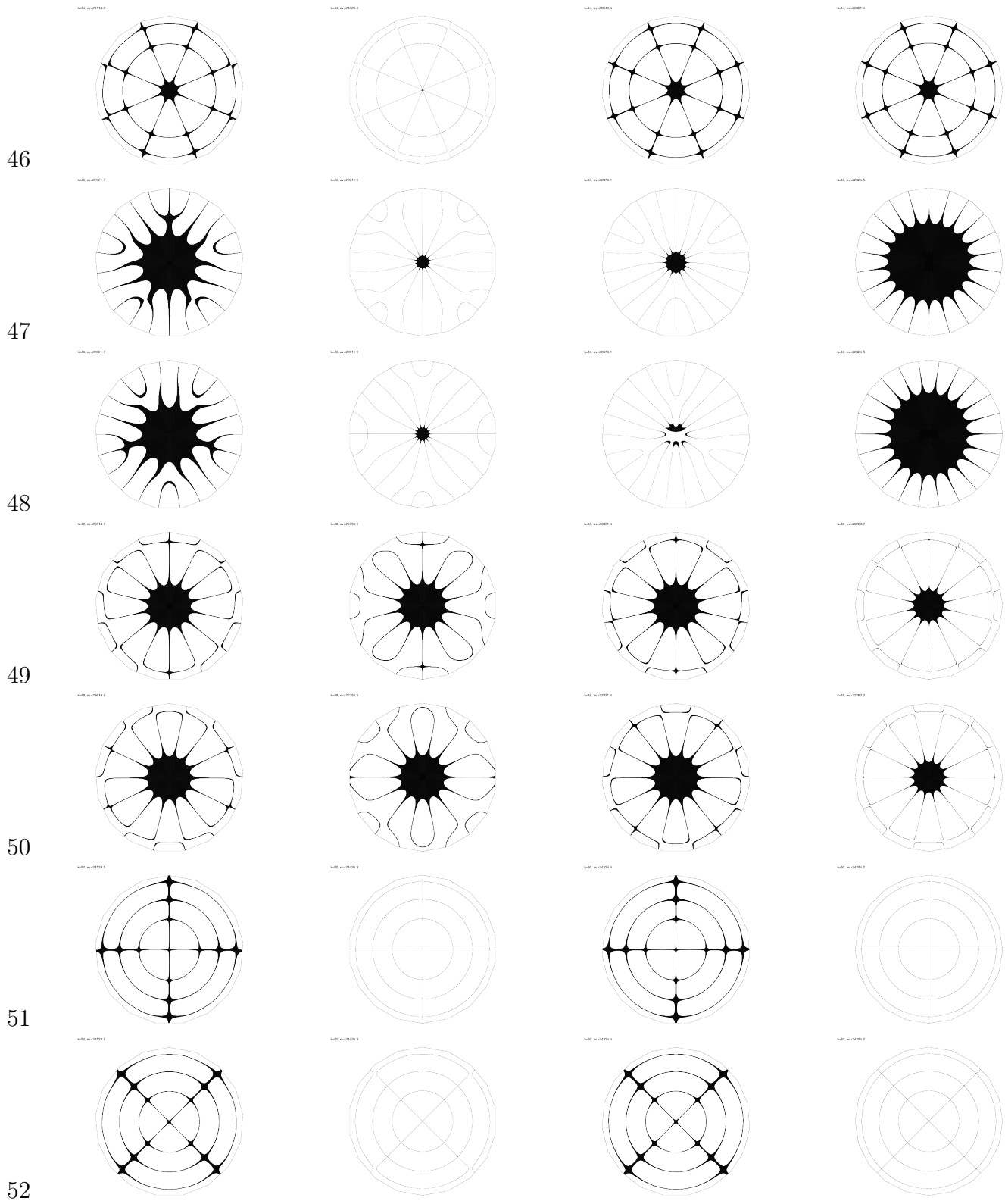
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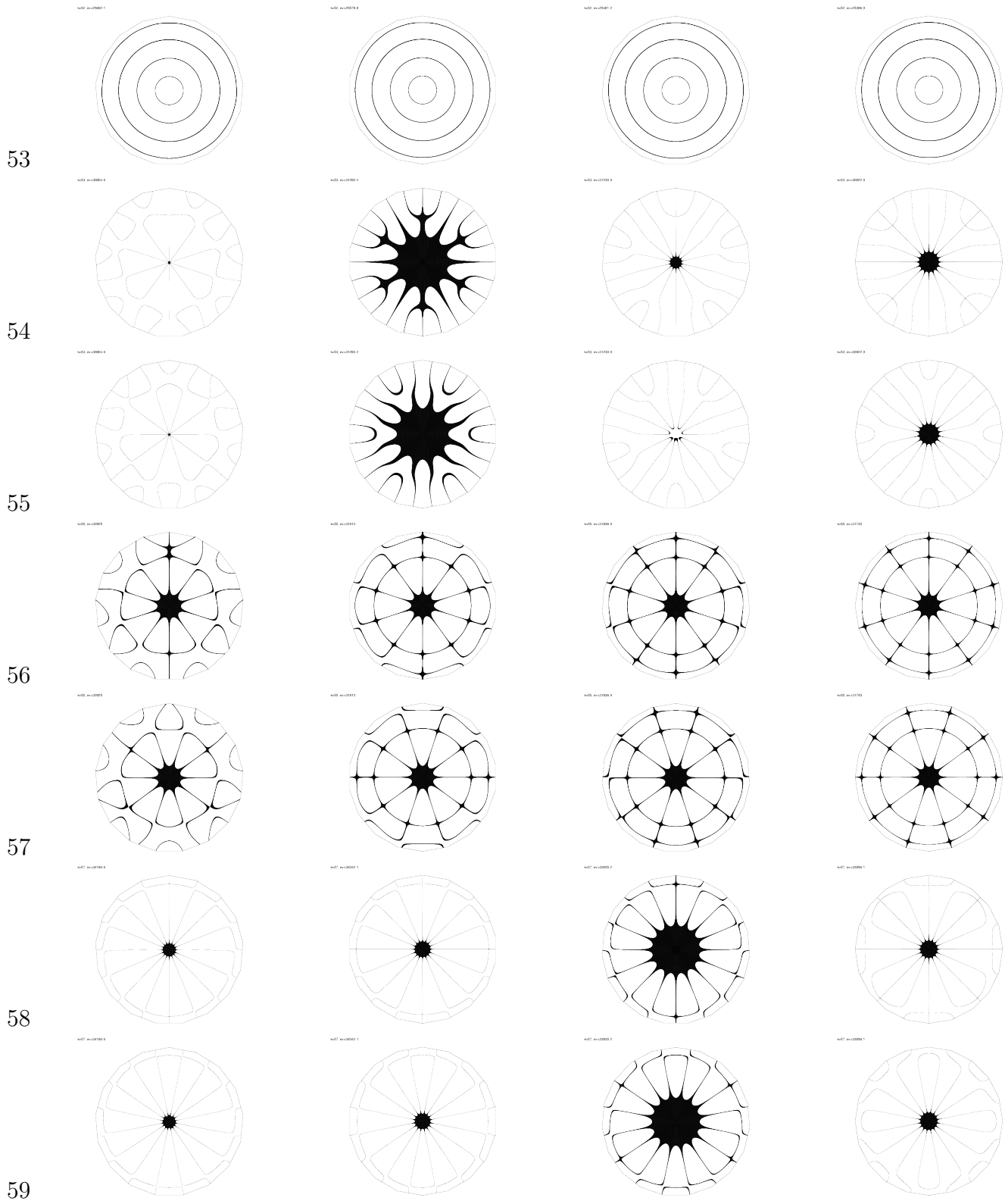
k 正十七角形 正十八角形 正十九角形 正二十角形



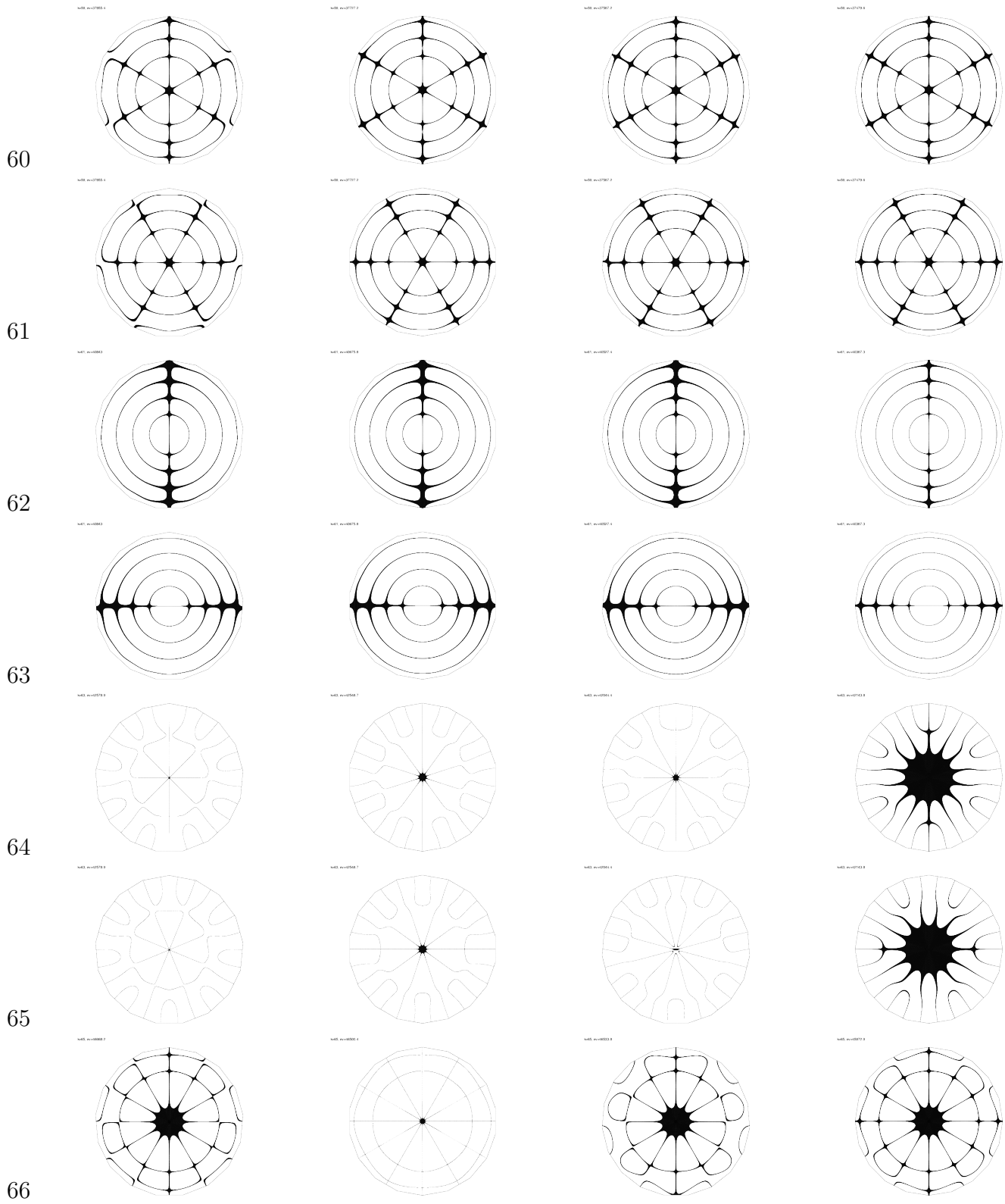
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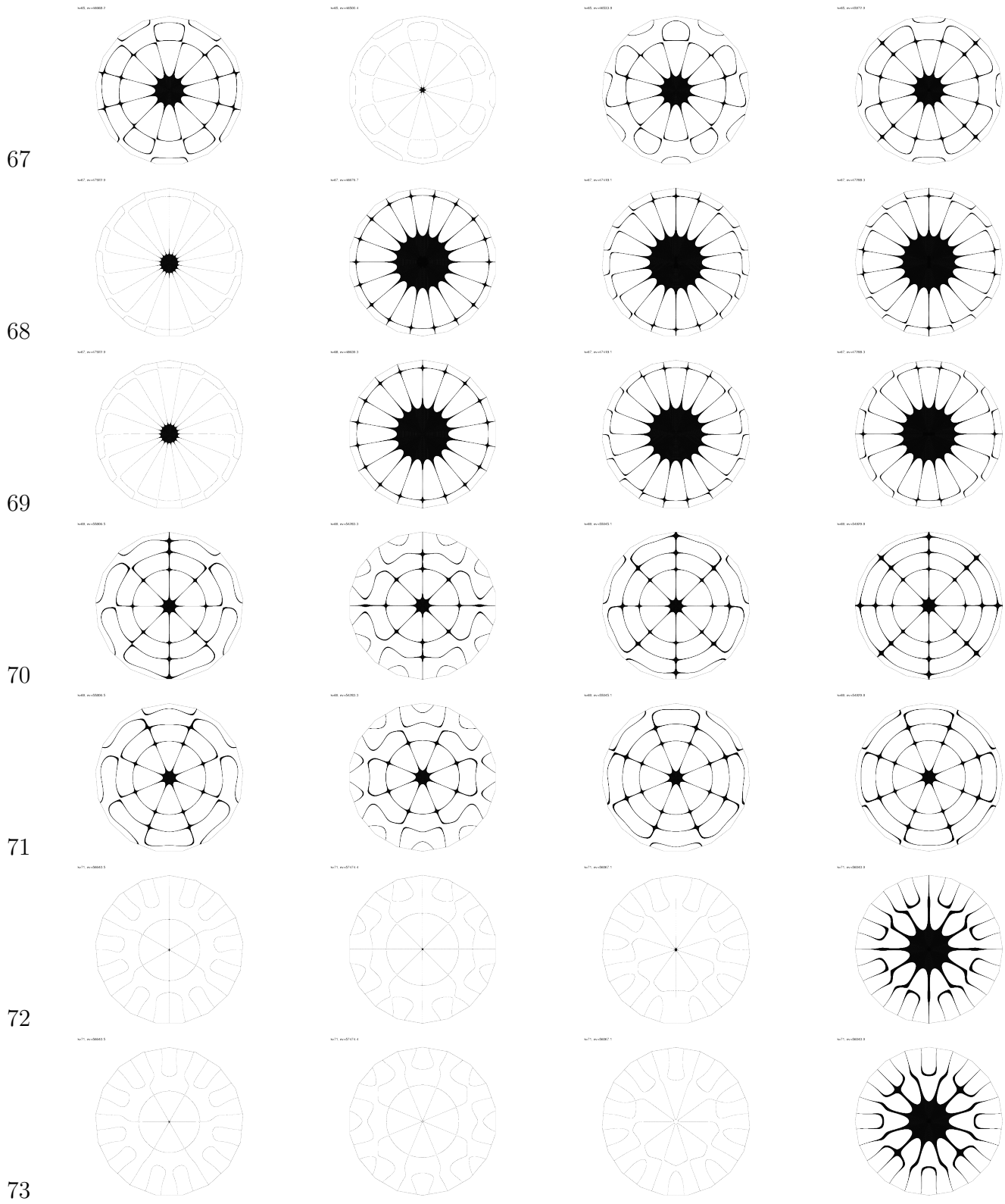
k 正十七角形 正十八角形 正十九角形 正二十角形



k 正十七角形 正十八角形 正十九角形 正二十角形

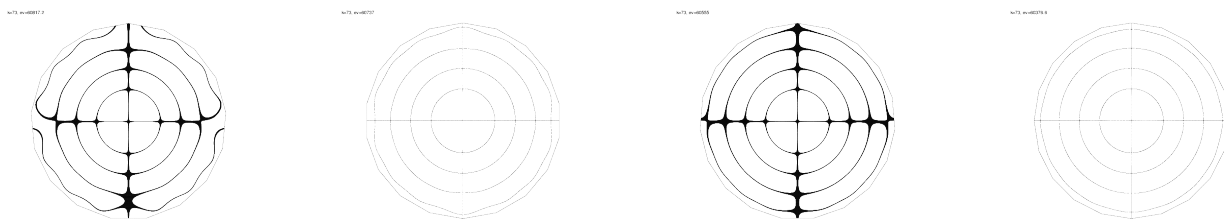


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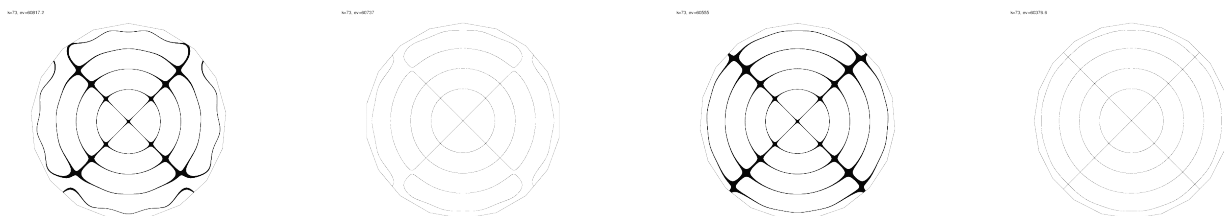


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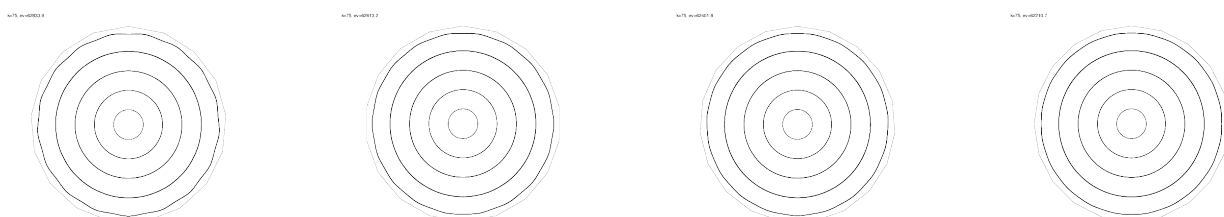
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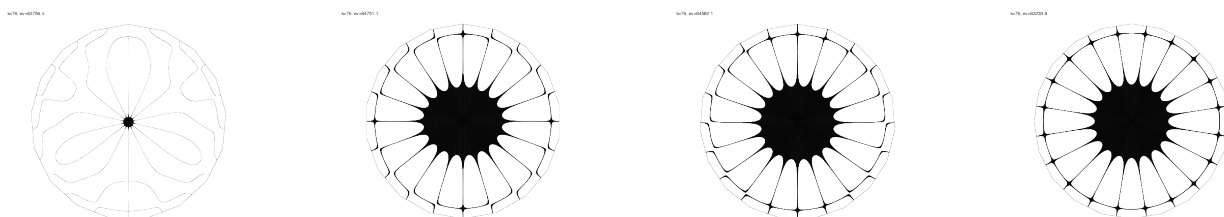
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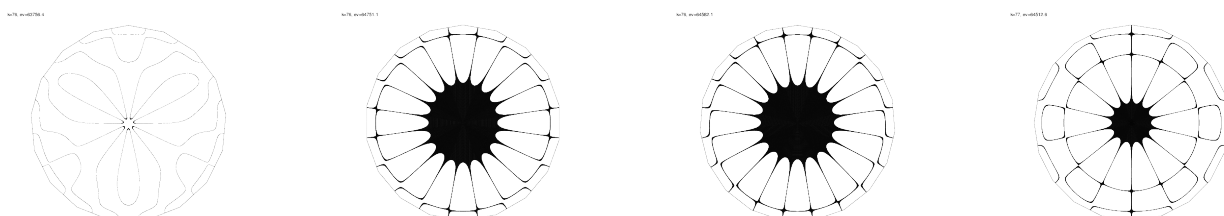
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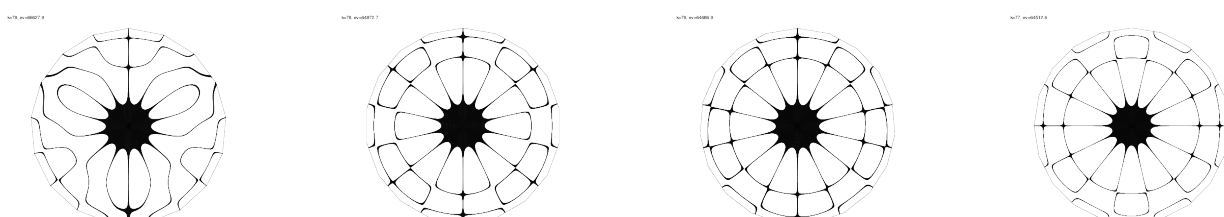
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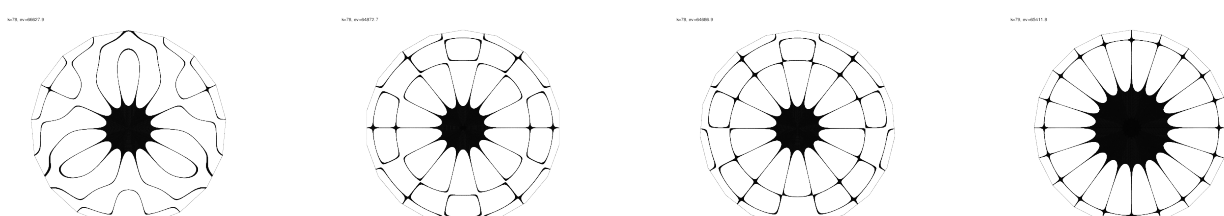
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79

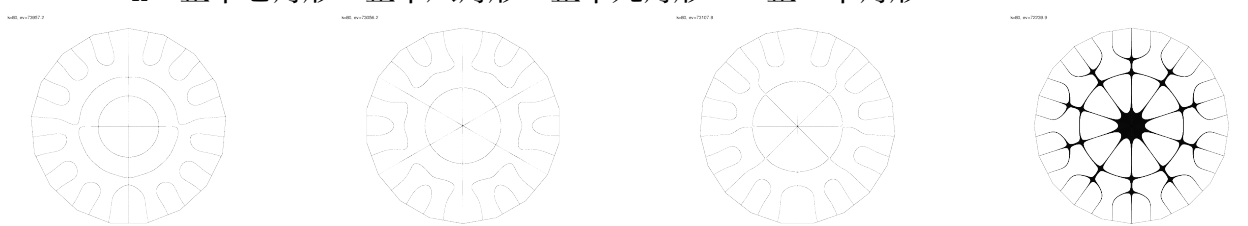


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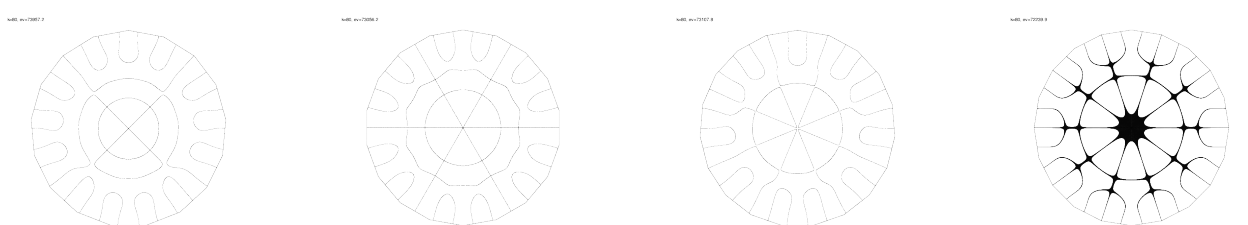


k 正十七角形 正十八角形 正十九角形 正二十角形

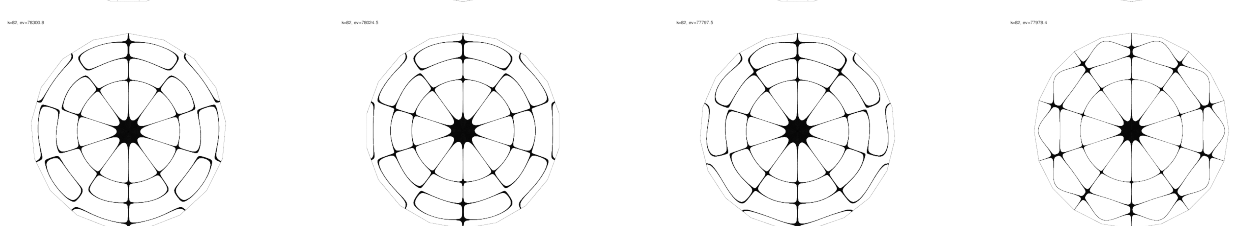
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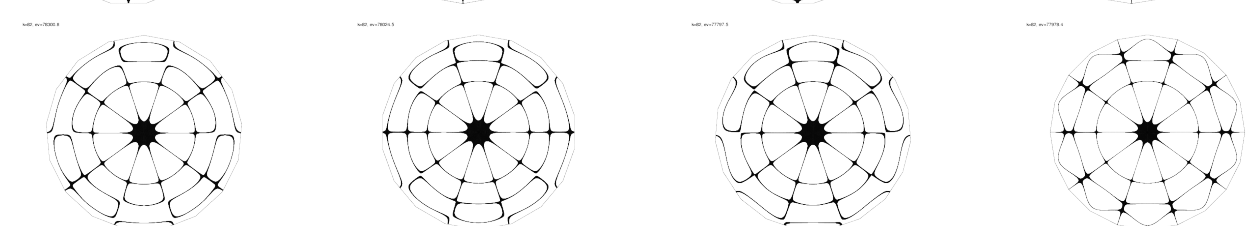
82



83



84



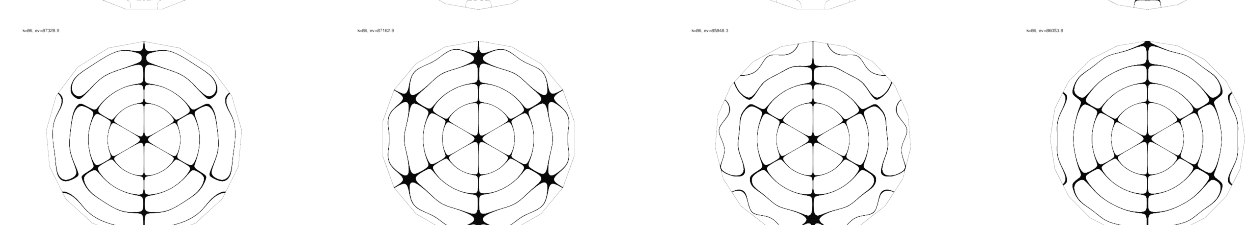
85



86

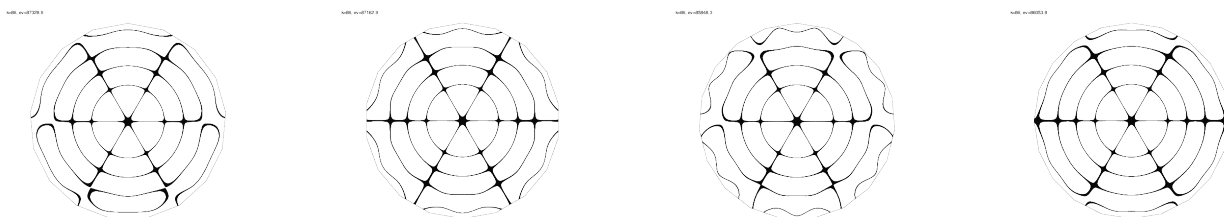


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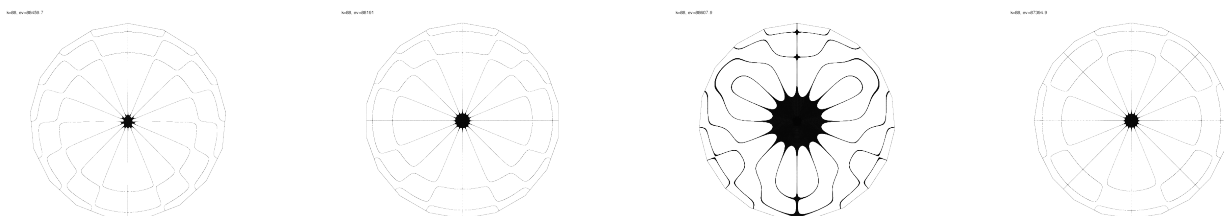


k 正十七角形 正十八角形 正十九角形 正二十角形

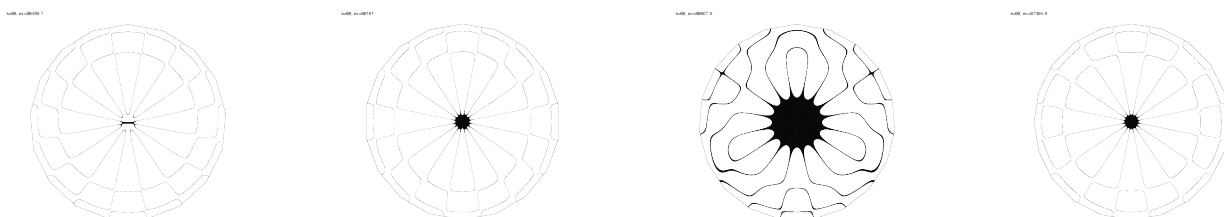
88



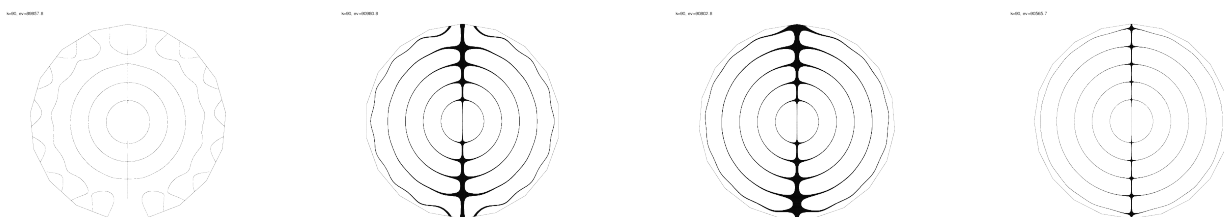
89



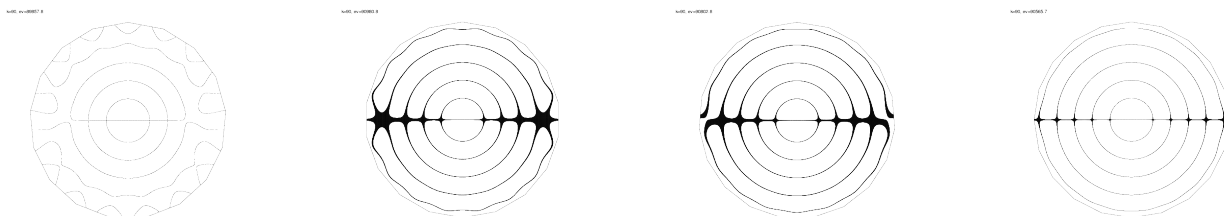
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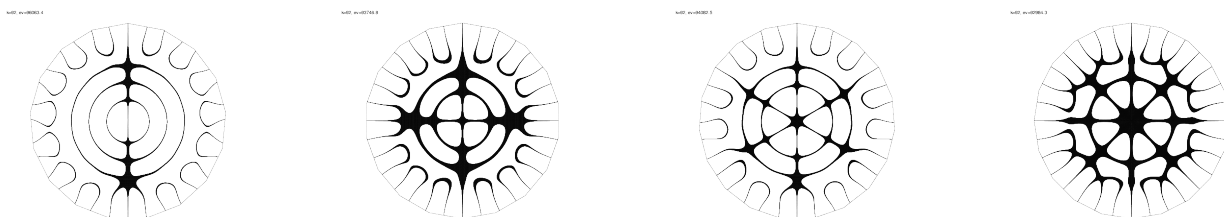
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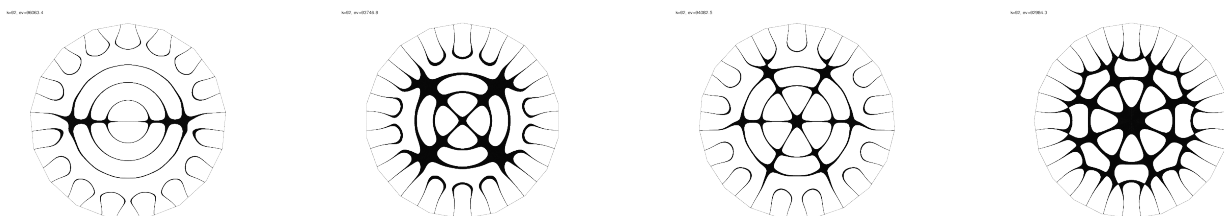
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93

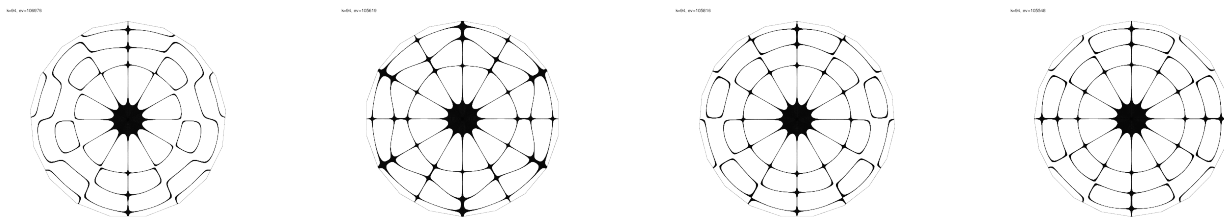


94

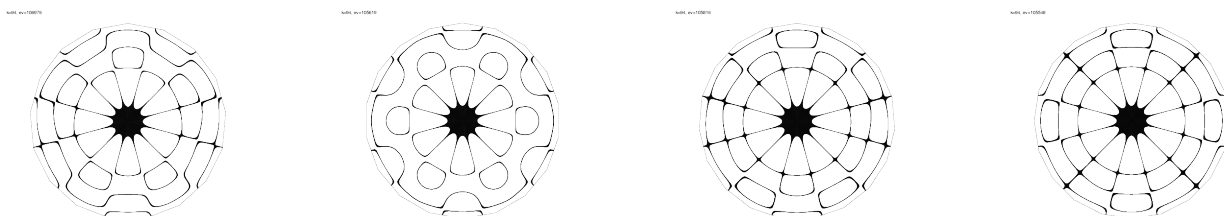


k 正十七角形 正十八角形 正十九角形 正二十角形

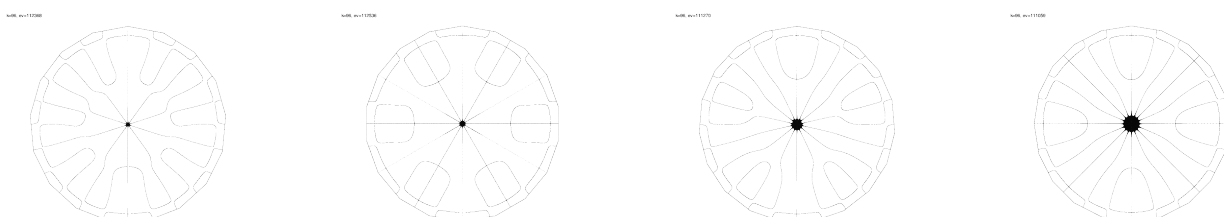
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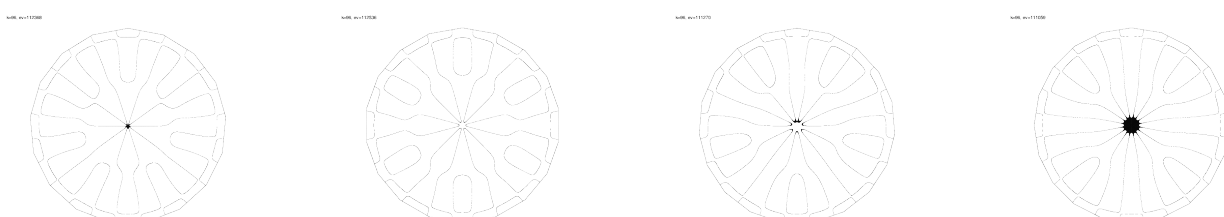
96



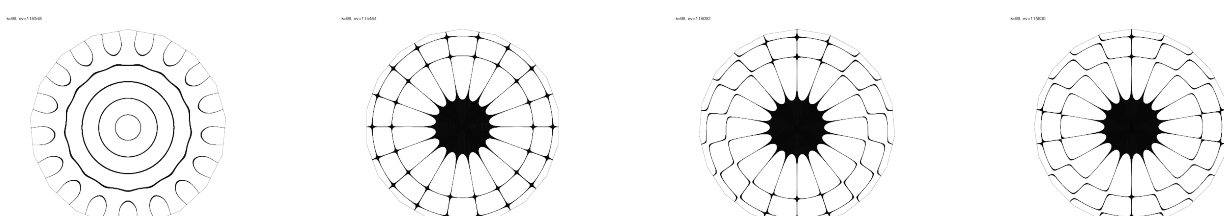
97



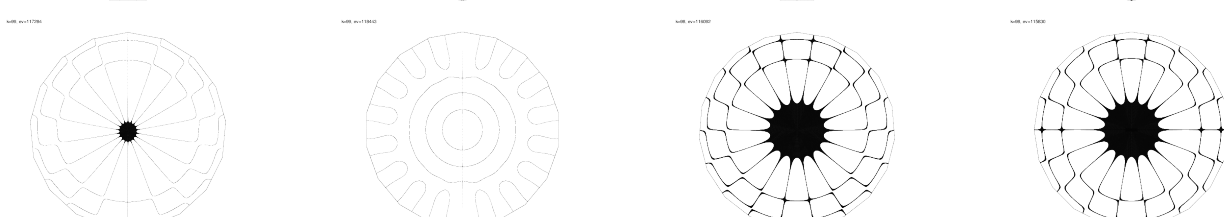
98



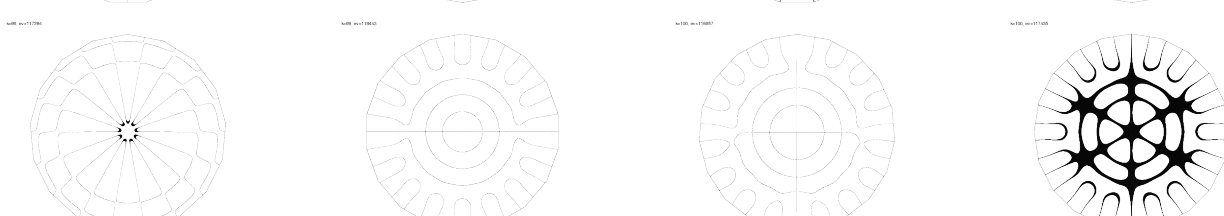
99



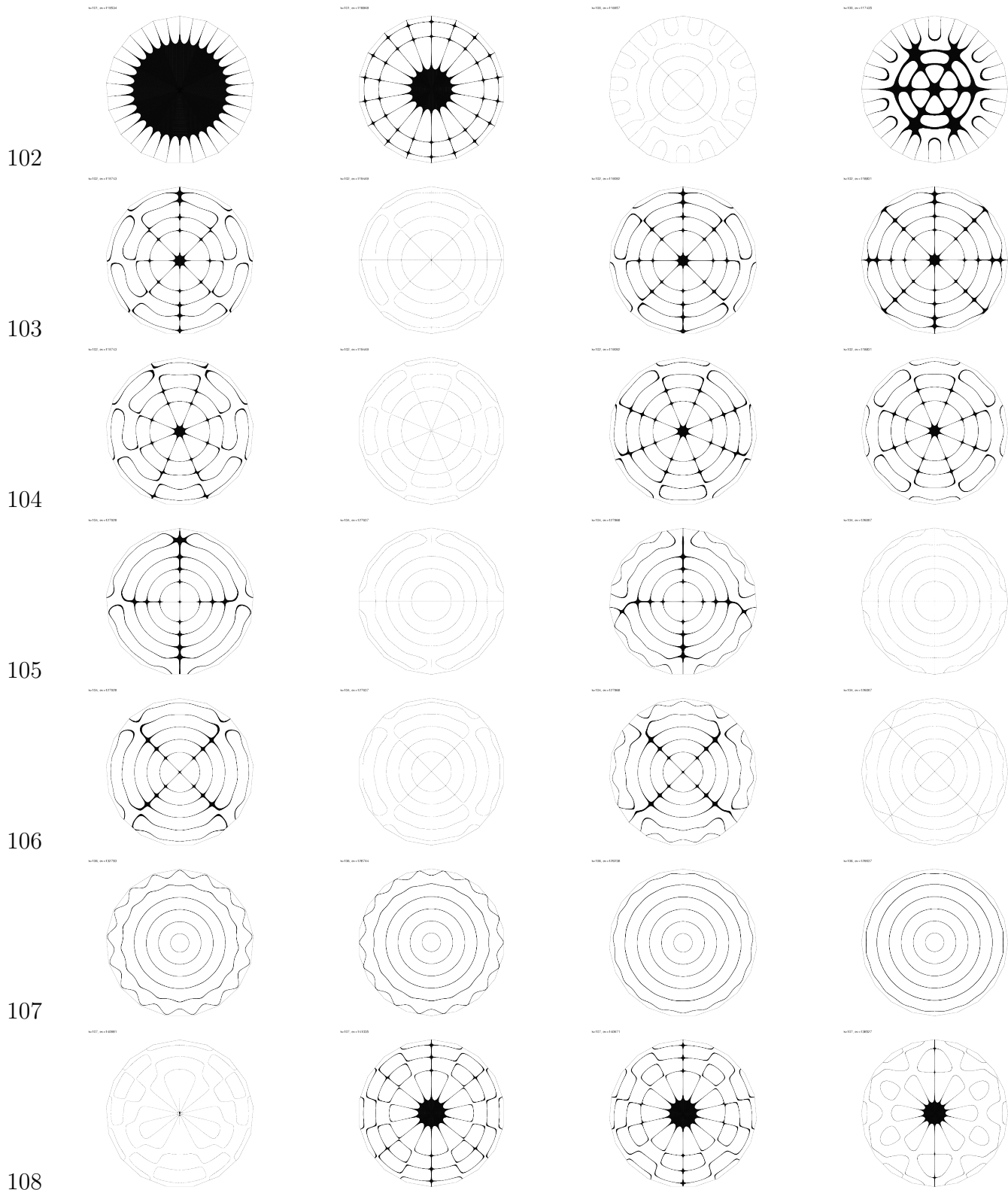
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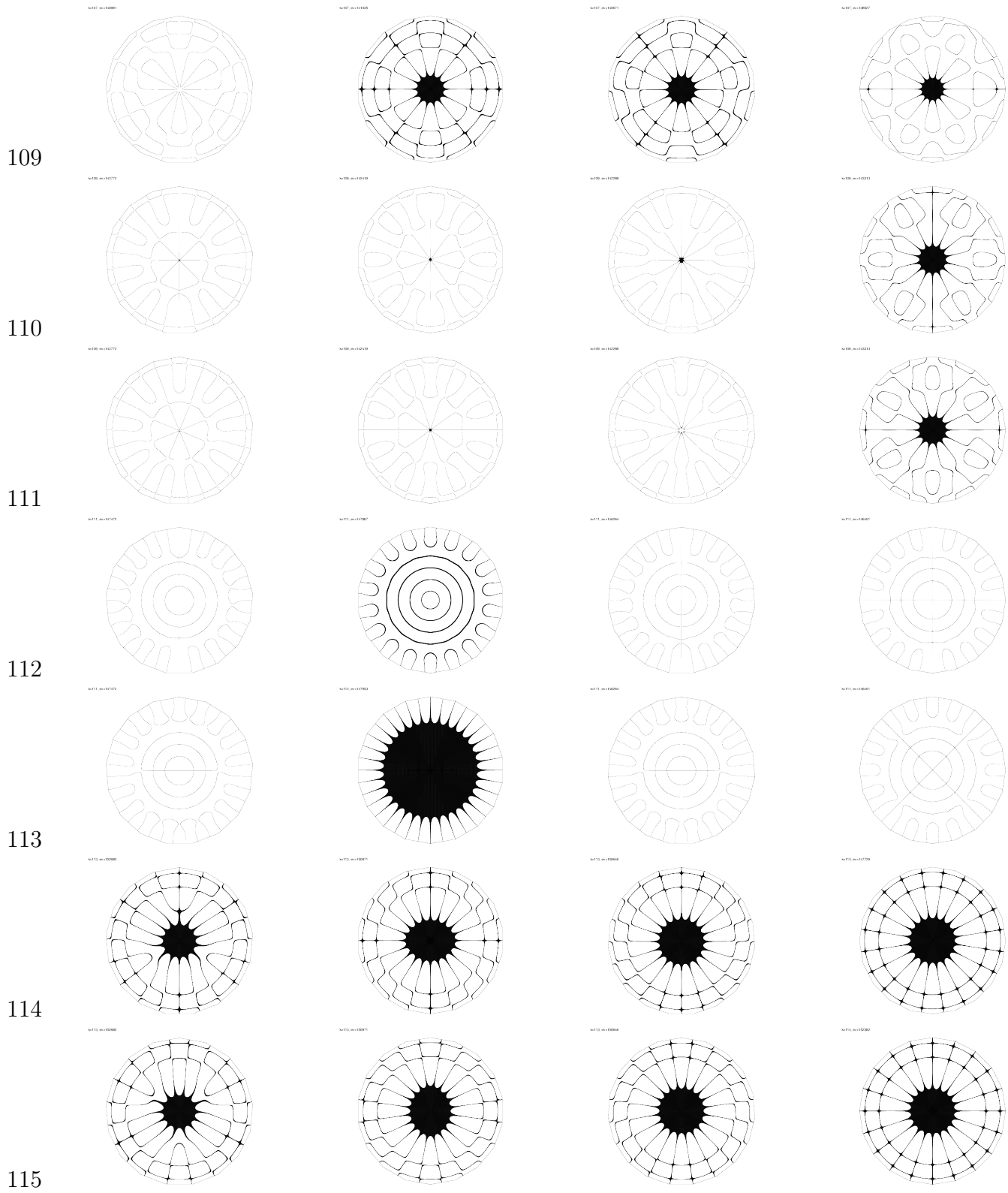
101



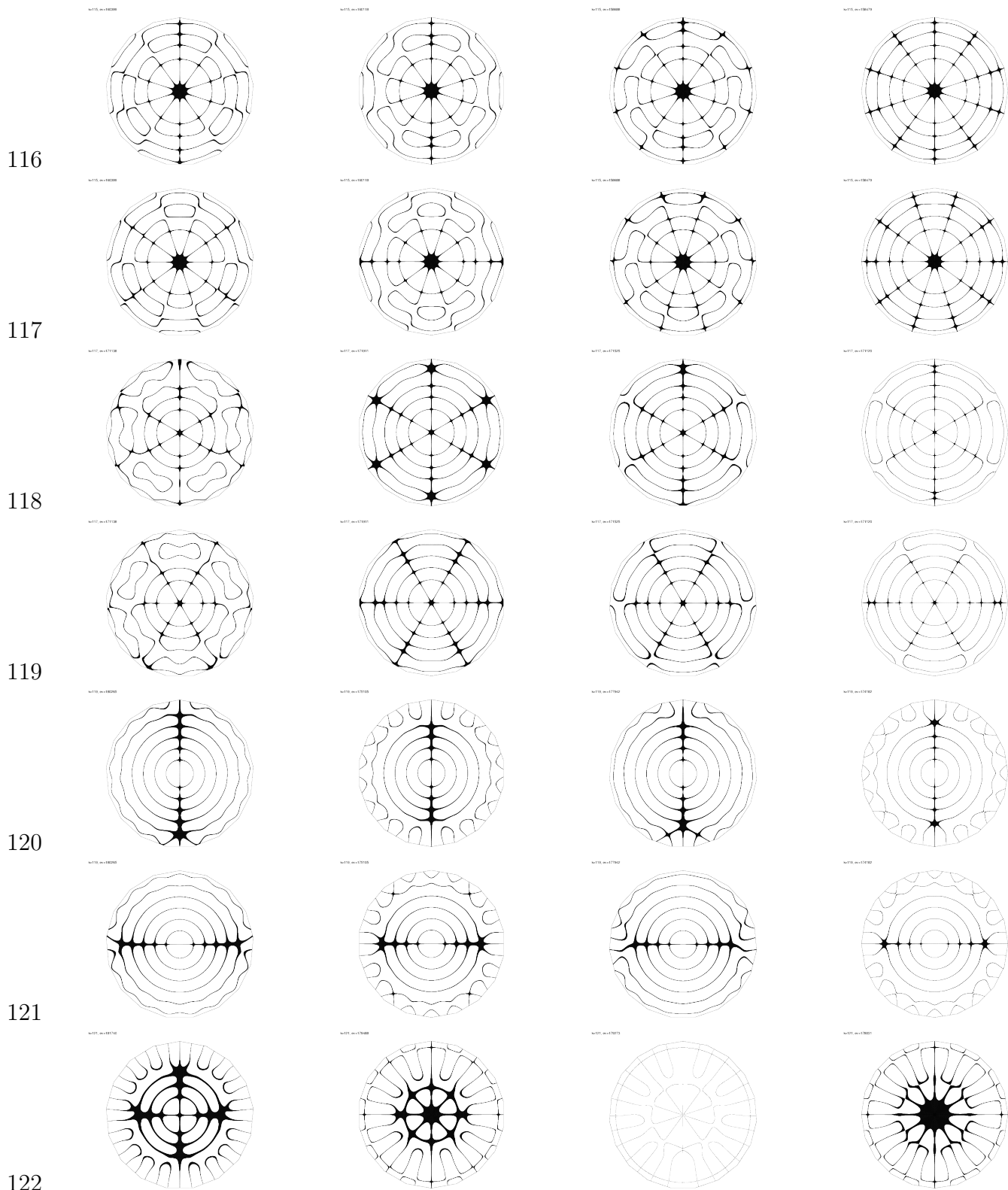
k 正十七角形 正十八角形 正十九角形 正二十角形



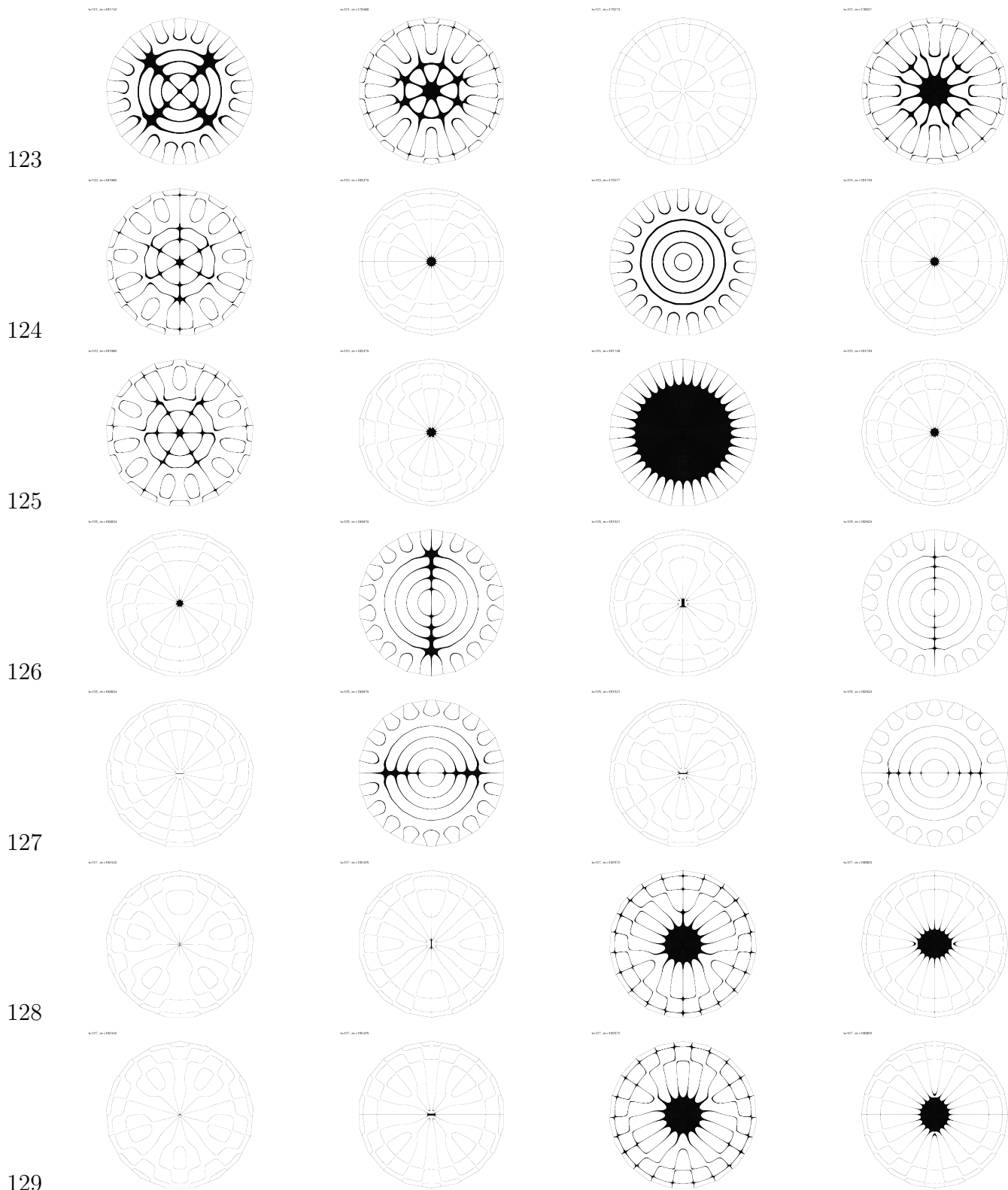
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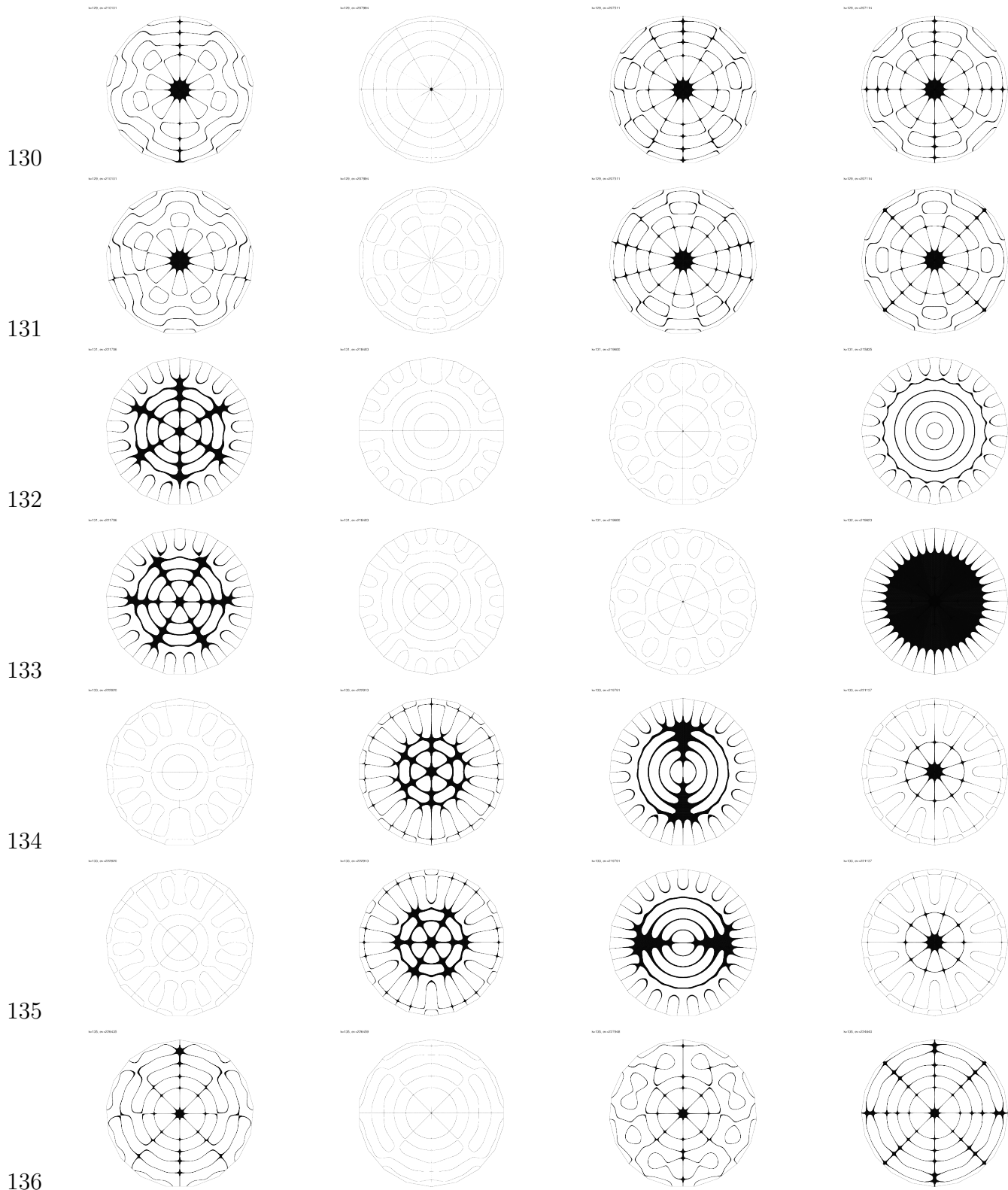
k 正十七角形 正十八角形 正十九角形 正二十角形



k 正十七角形 正十八角形 正十九角形 正二十角形

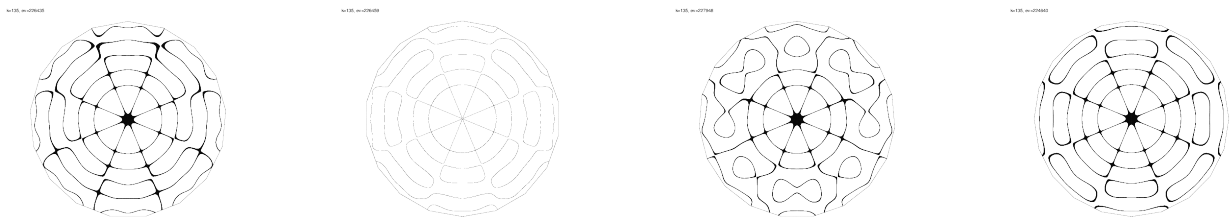


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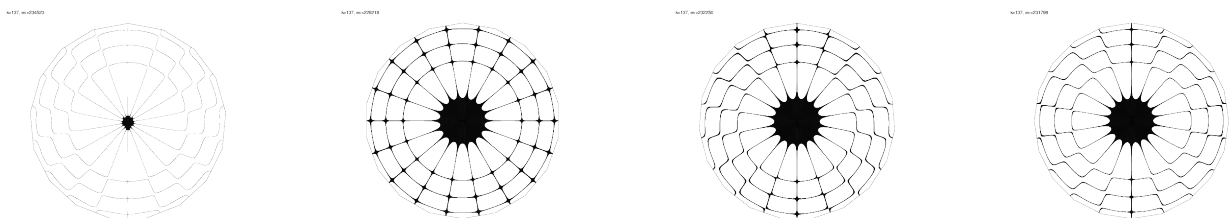


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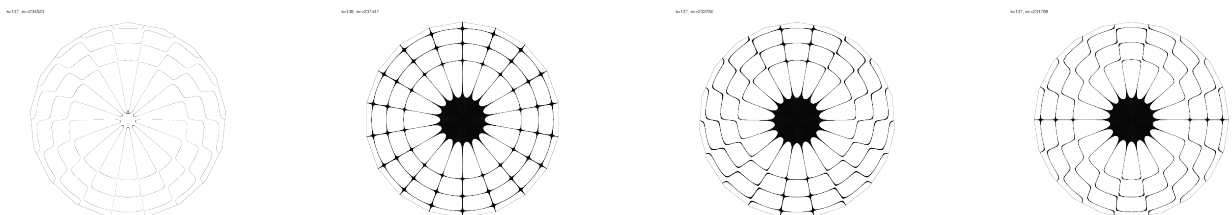
137



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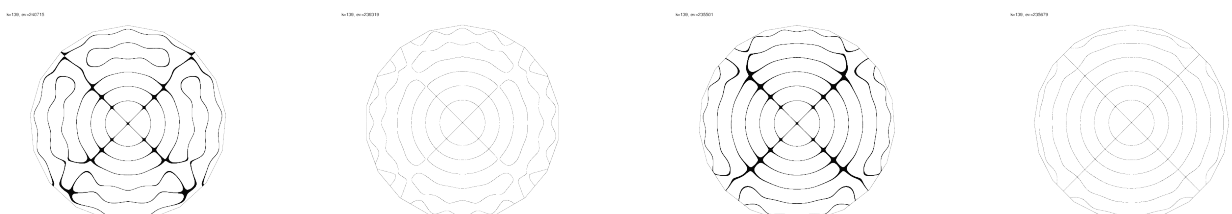
139



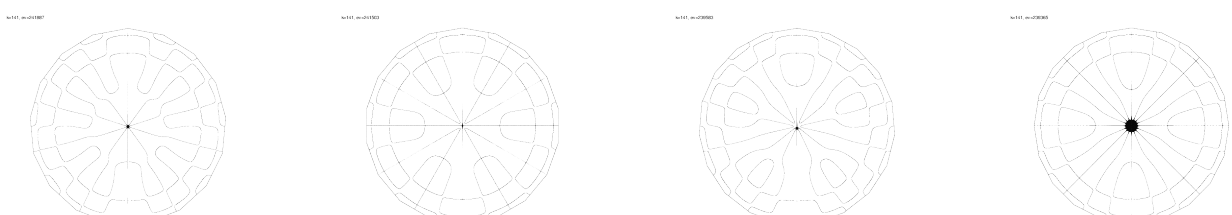
140



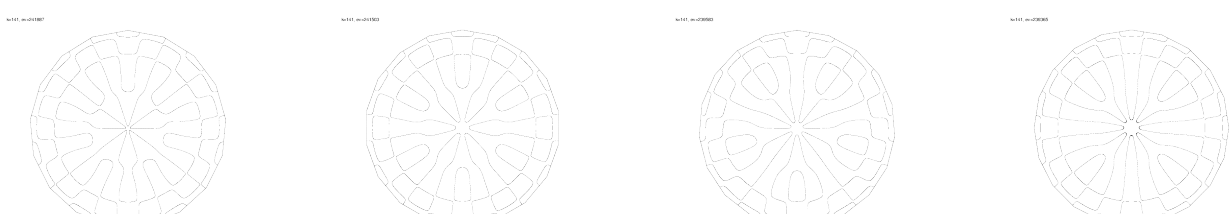
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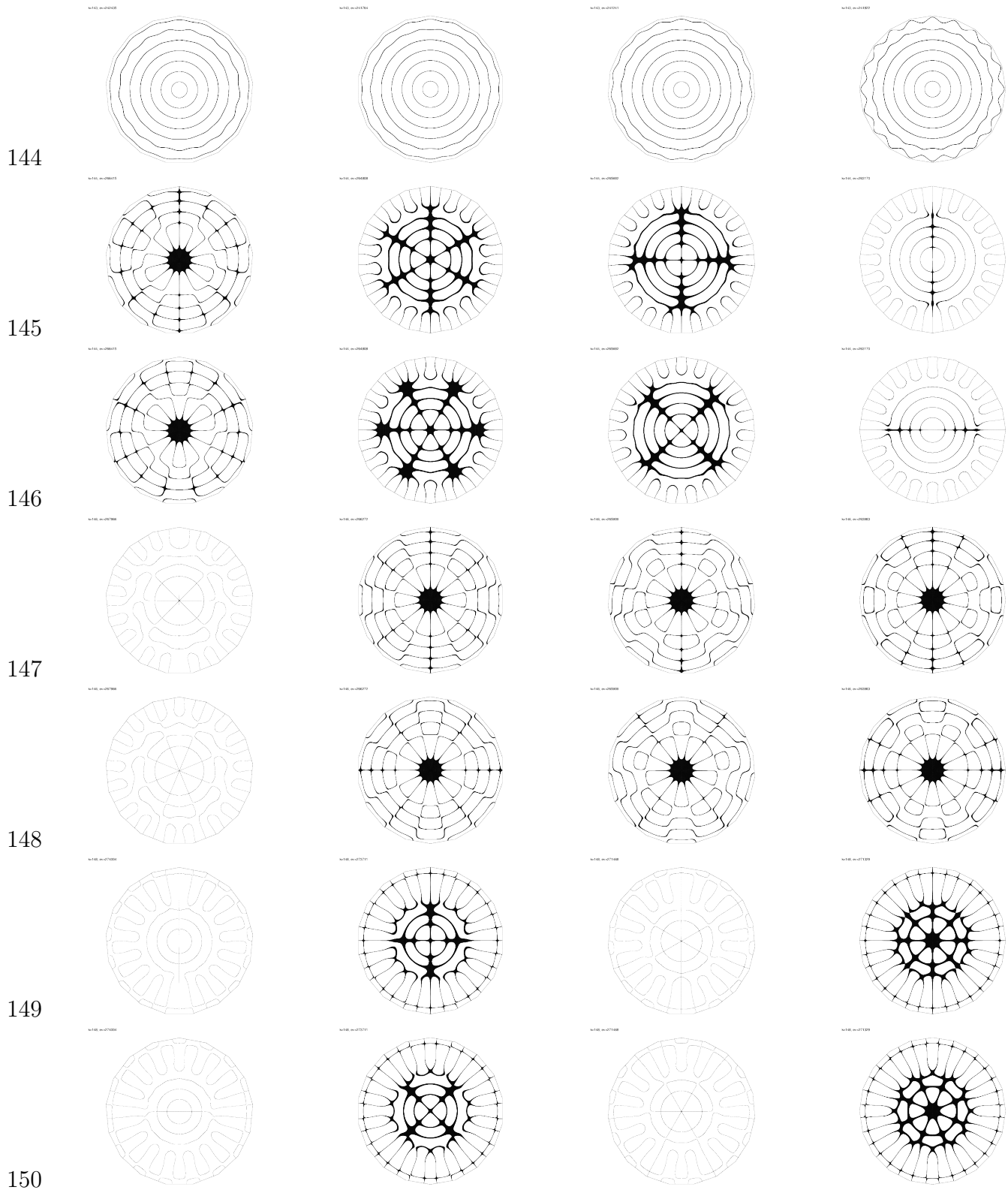
142



143

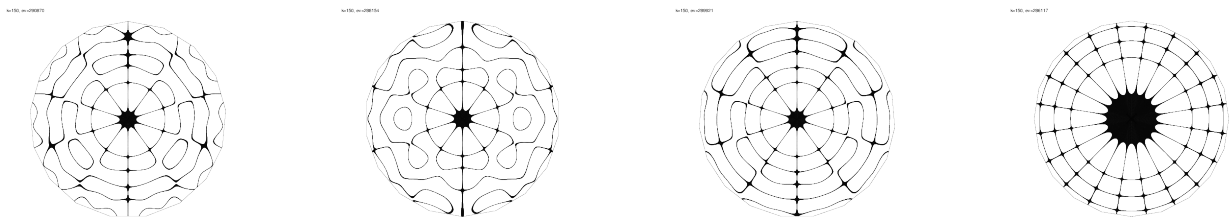


k 正十七角形 正十八角形 正十九角形 正二十角形

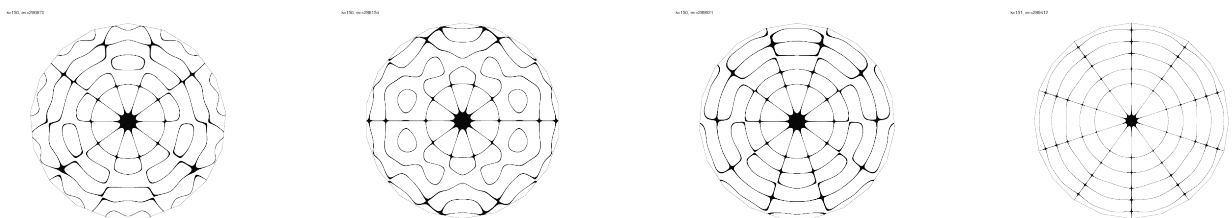


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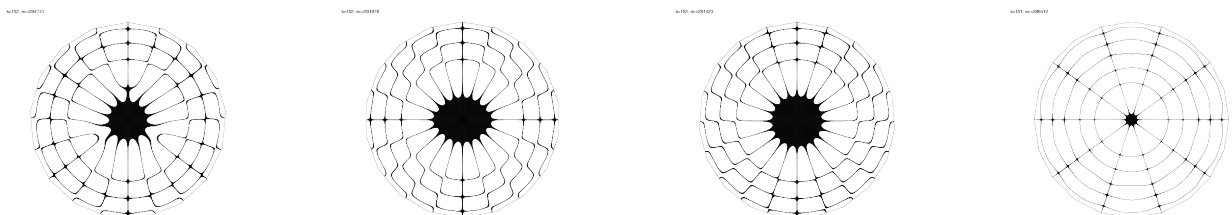
151



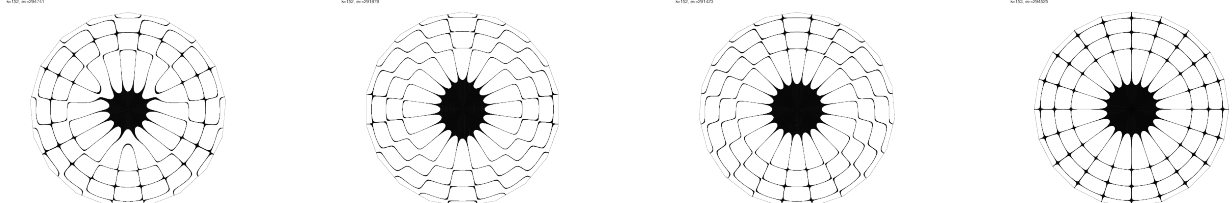
152



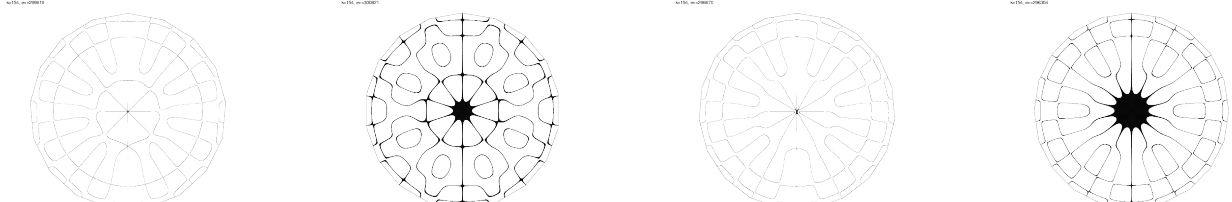
153



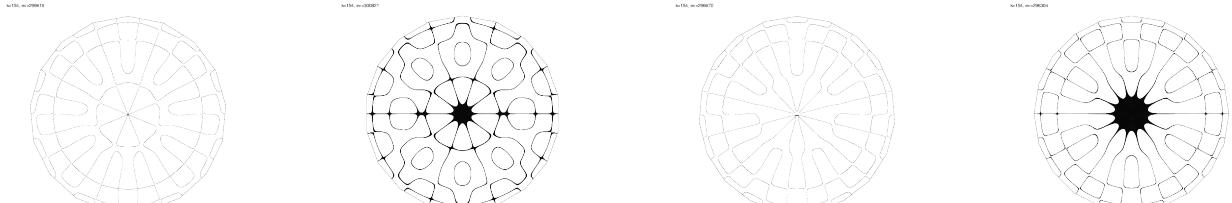
154



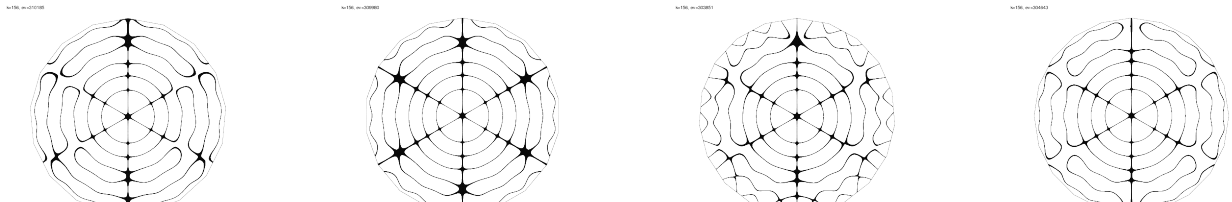
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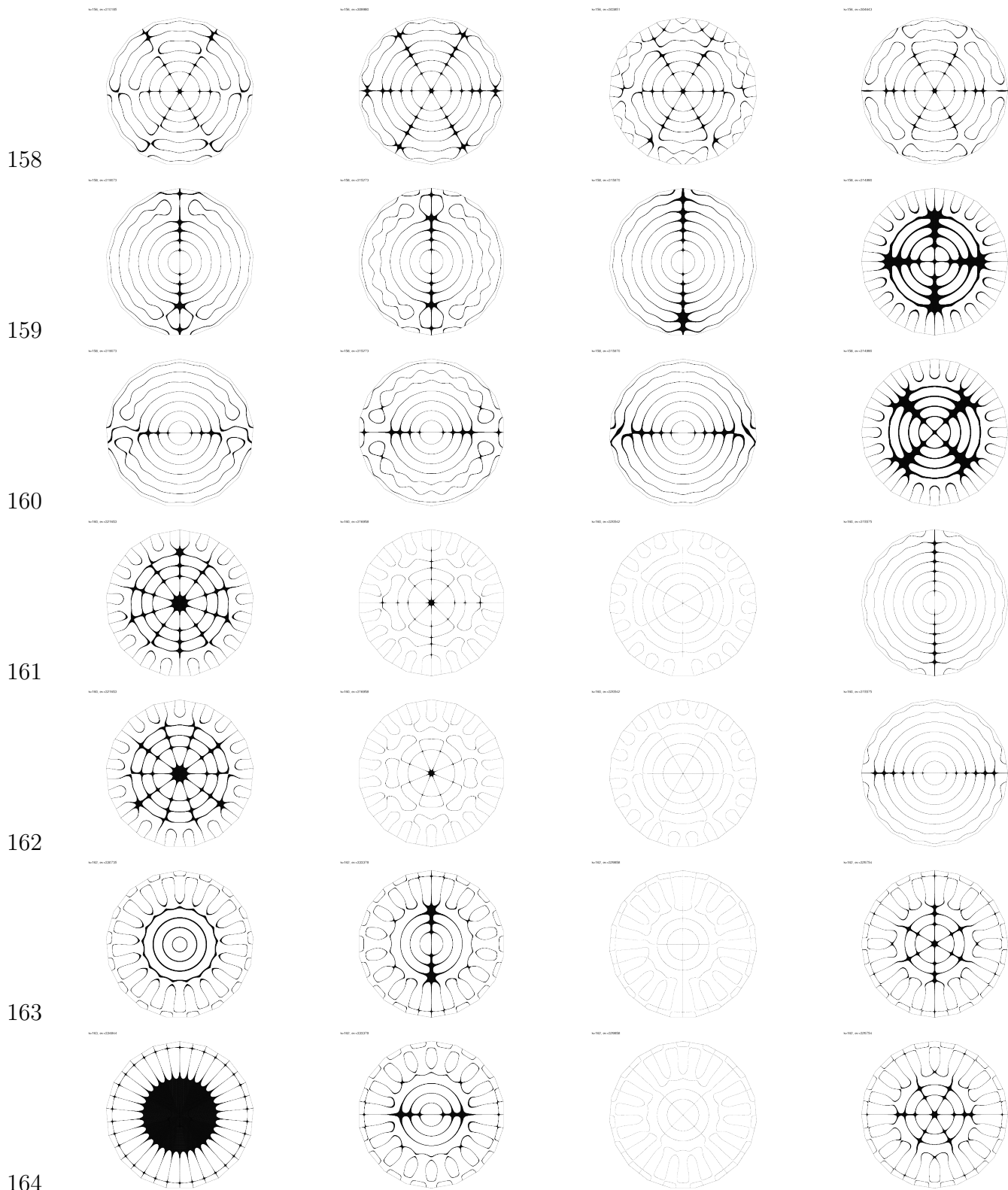
156



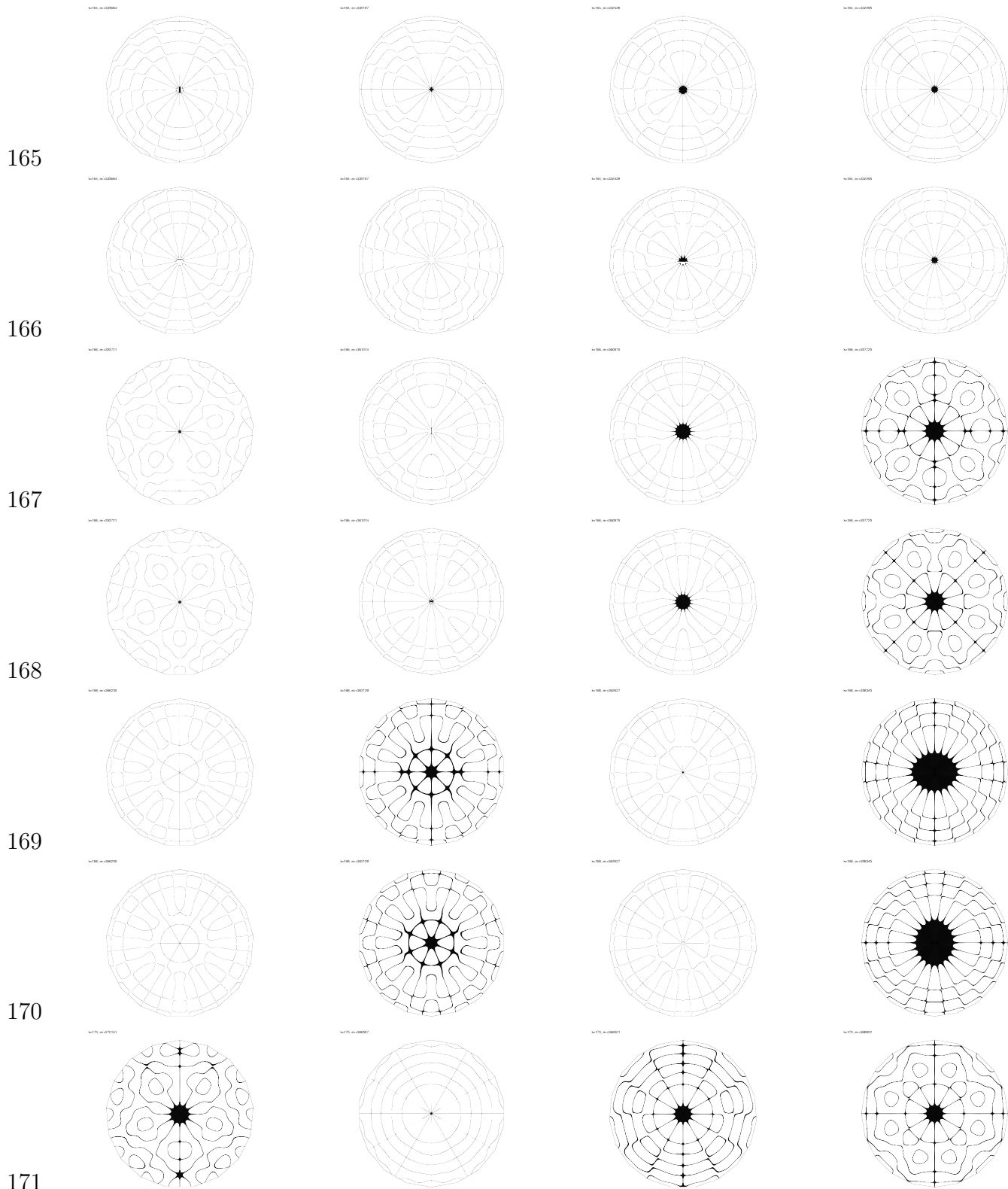
157



k 正十七角形 正十八角形 正十九角形 正二十角形

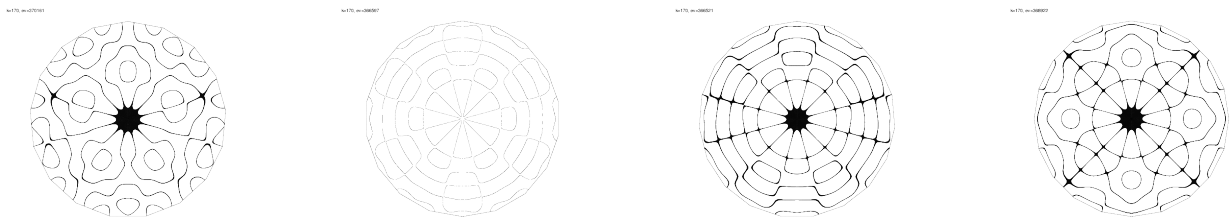


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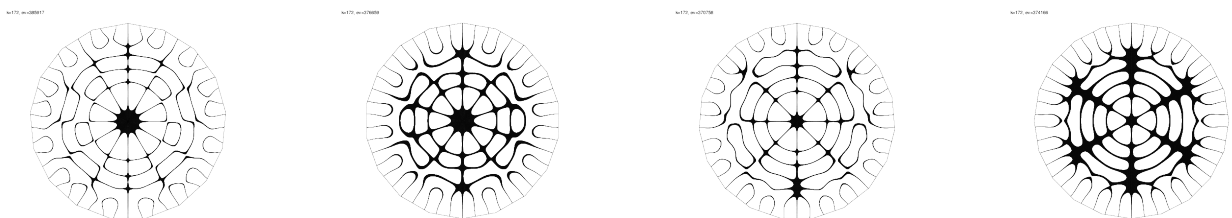


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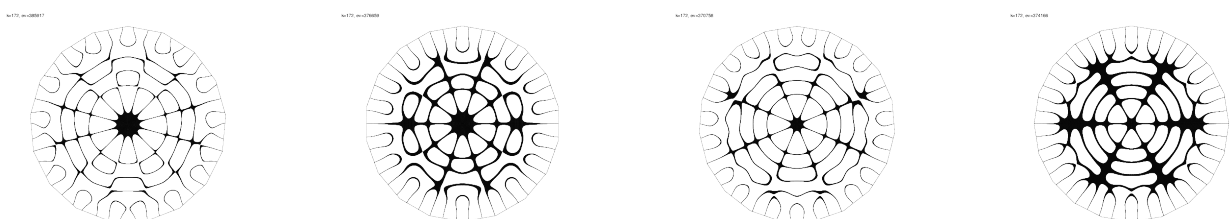
172



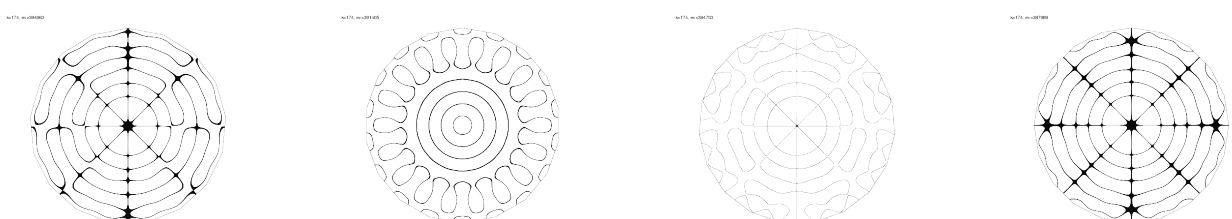
173



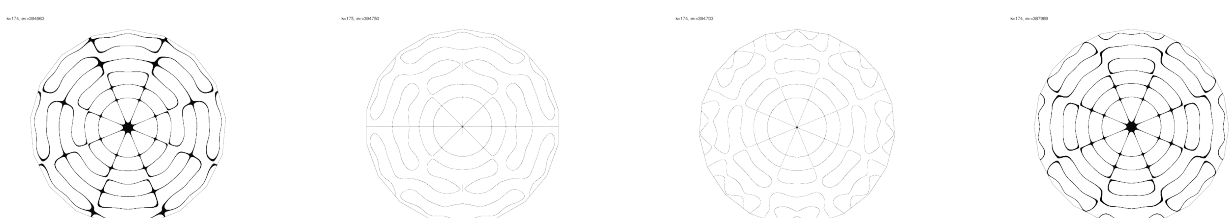
174



175



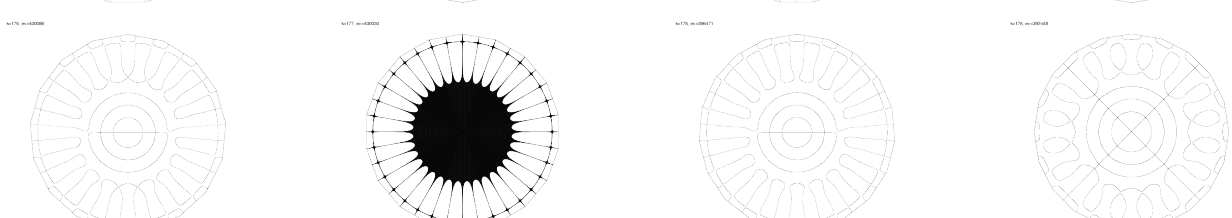
176



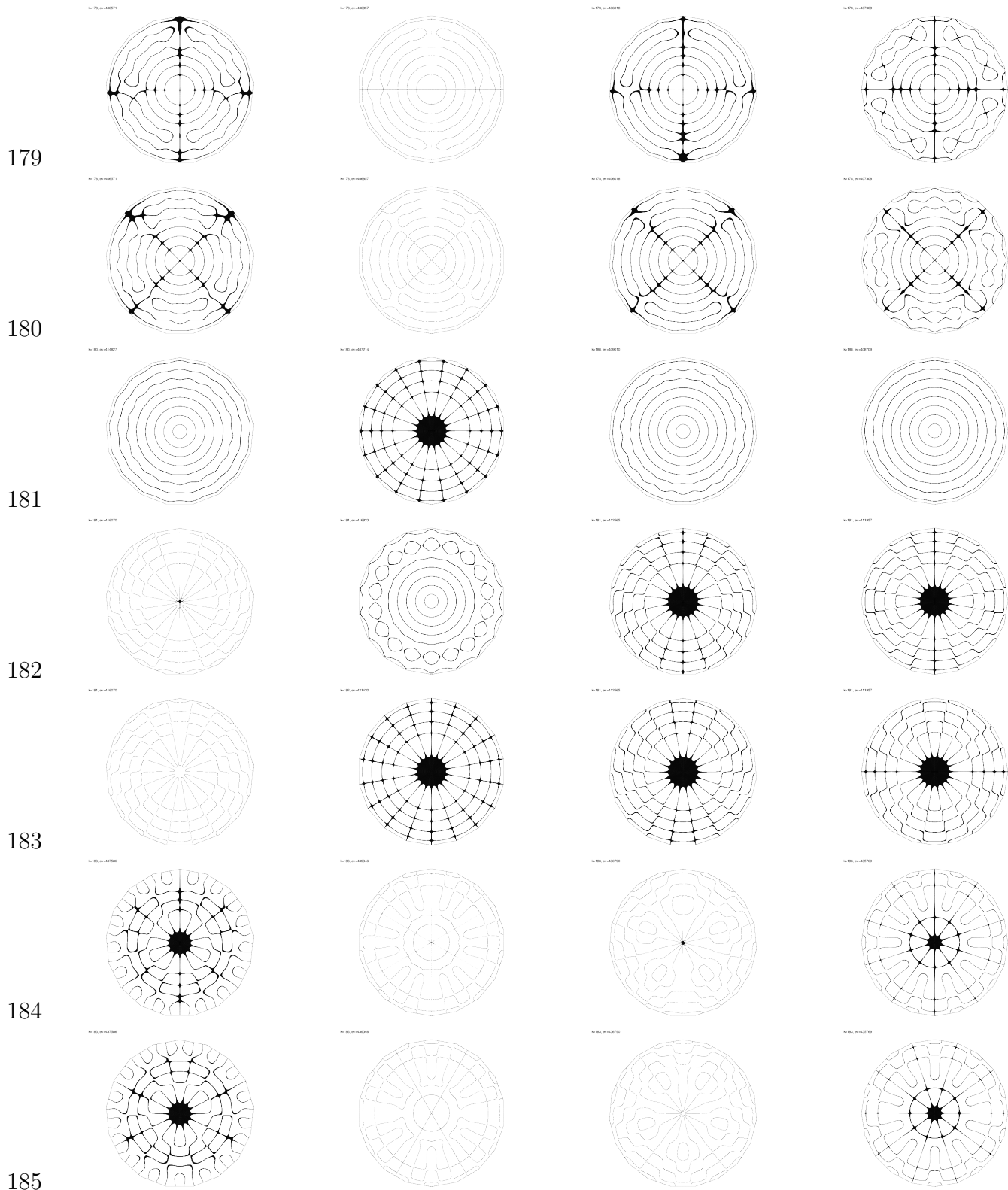
177



178

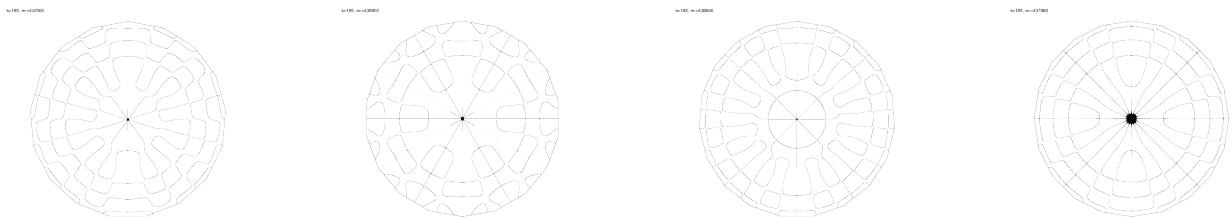


k 正十七角形 正十八角形 正十九角形 正二十角形



k 正十七角形 正十八角形 正十九角形 正二十角形

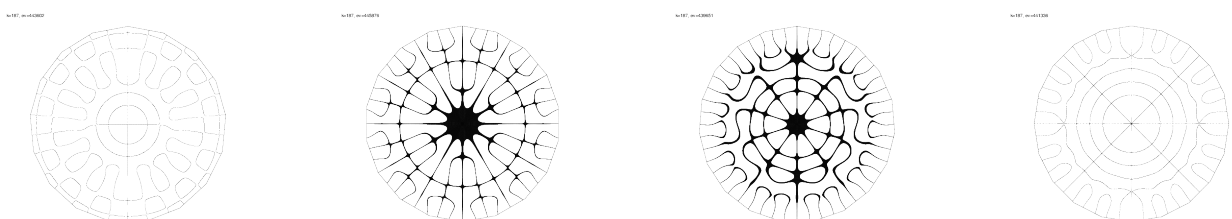
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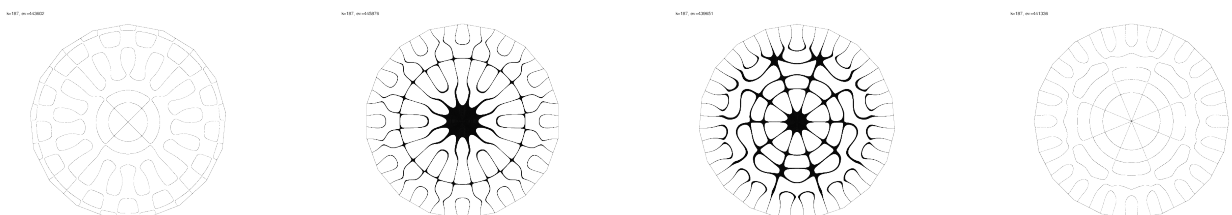
187



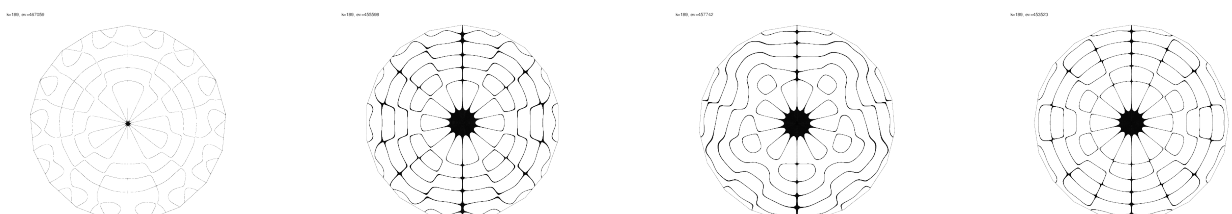
188



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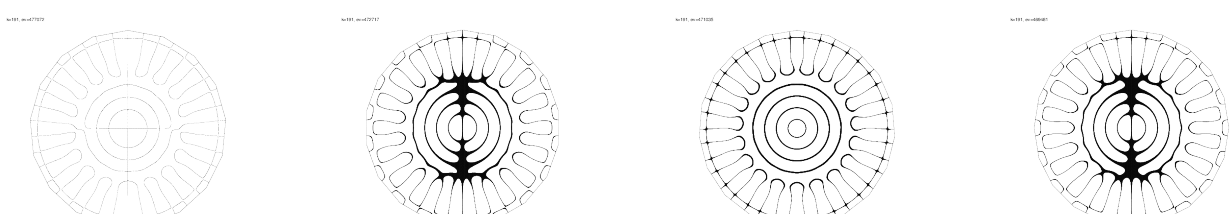
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191

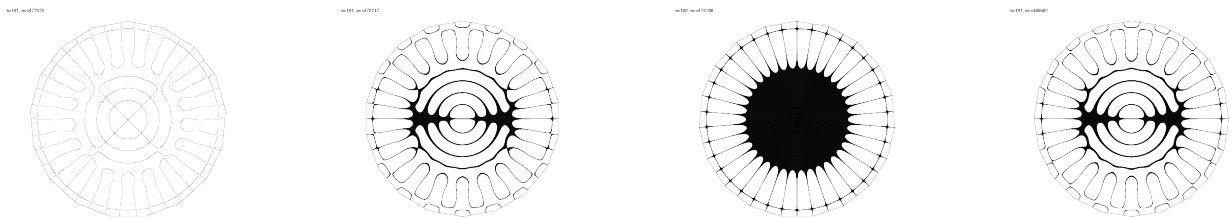


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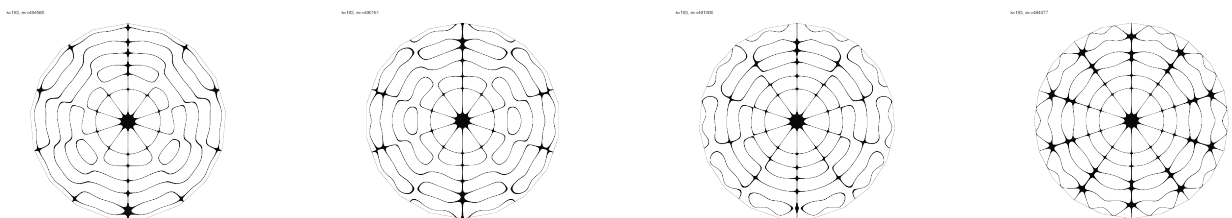


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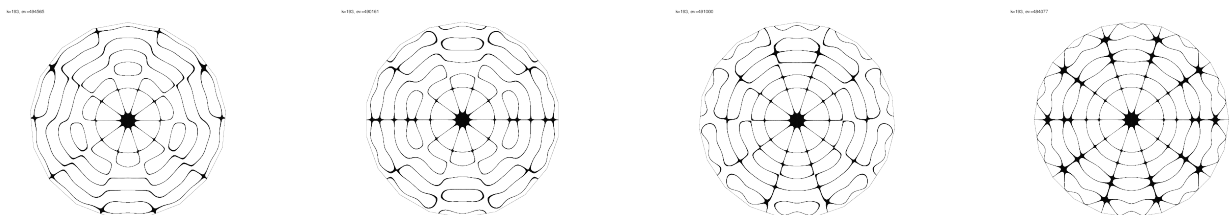
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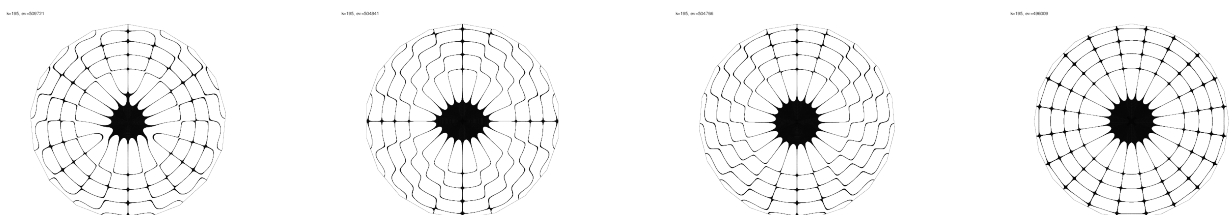
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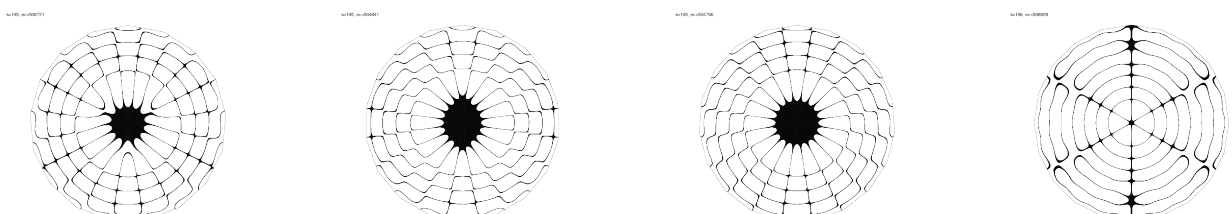
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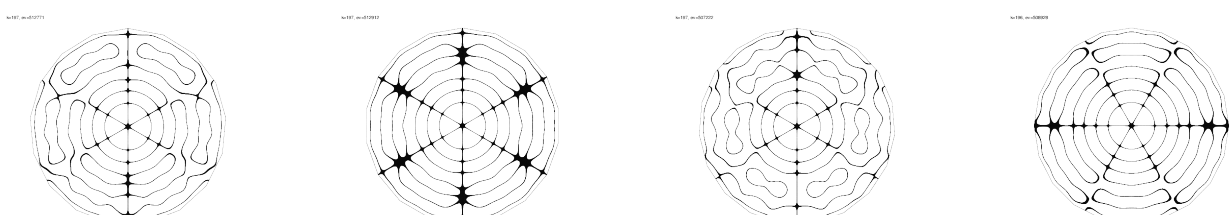
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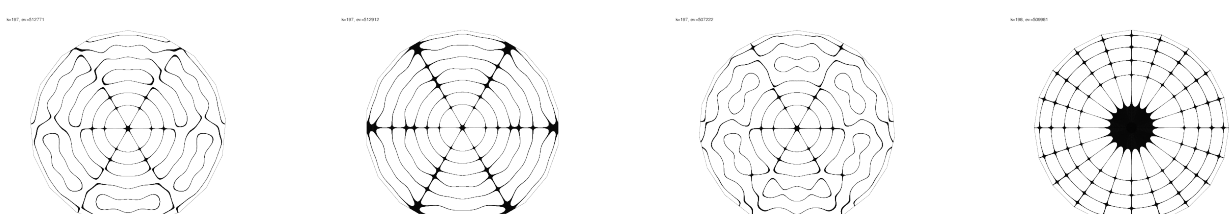
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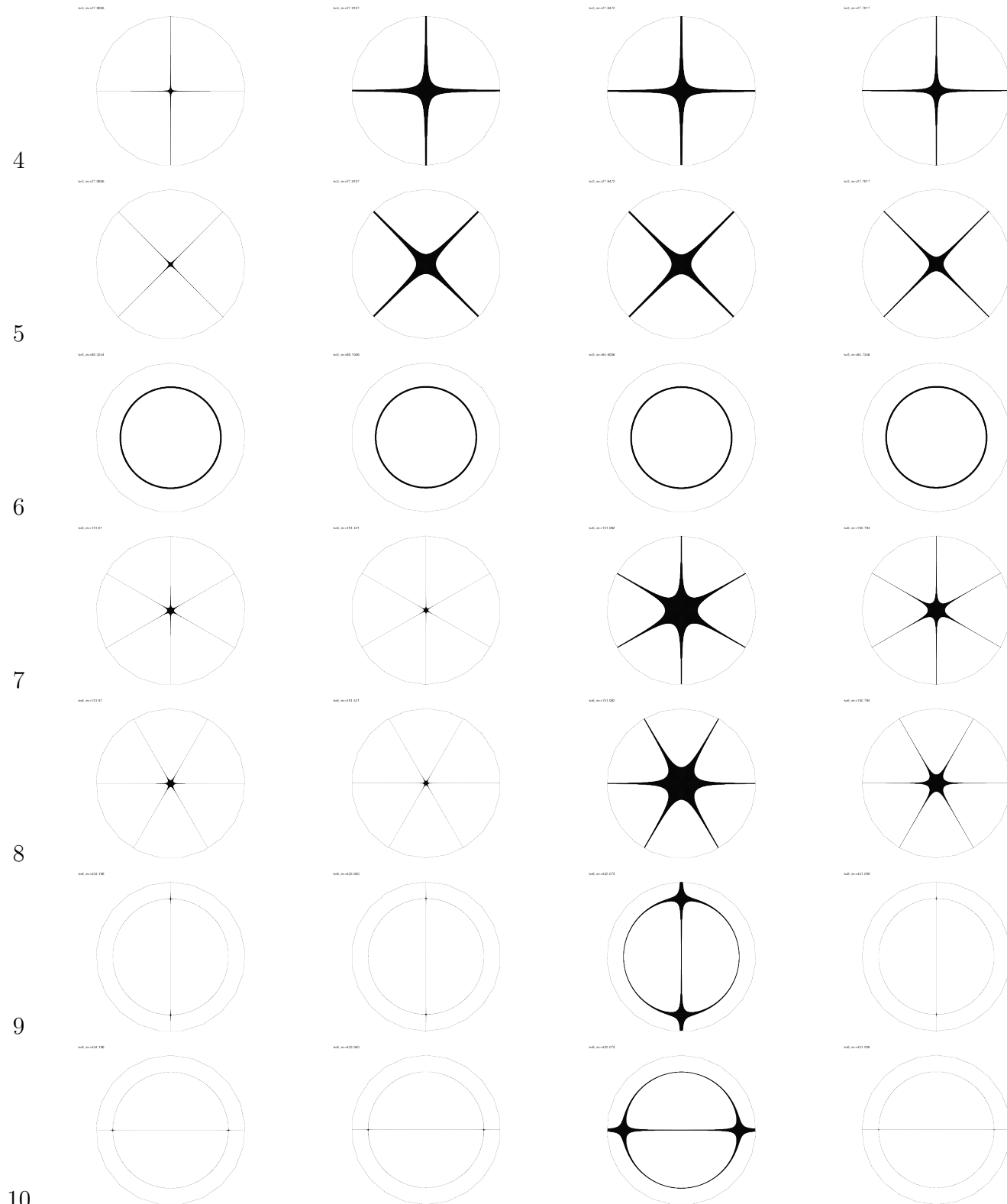
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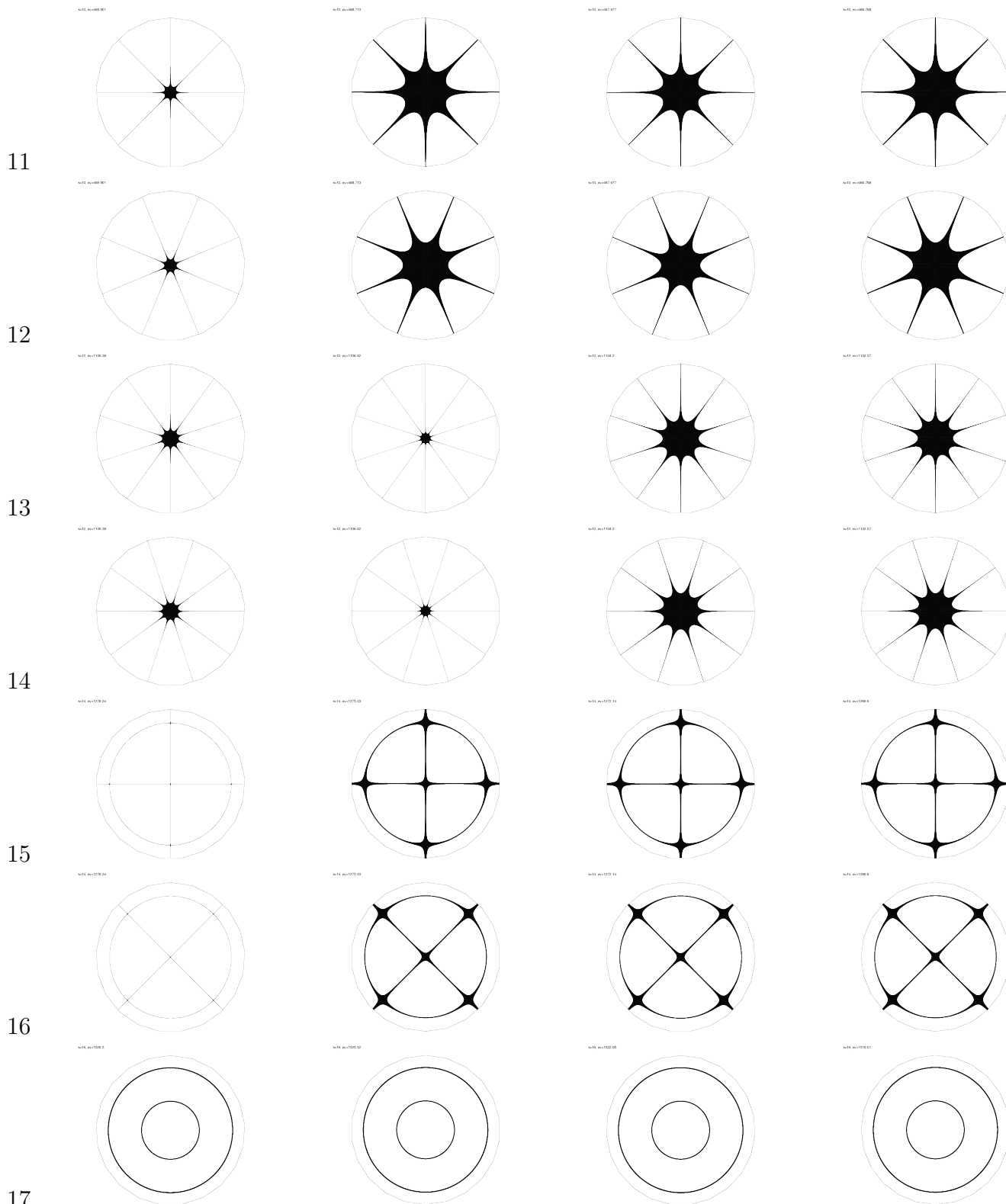
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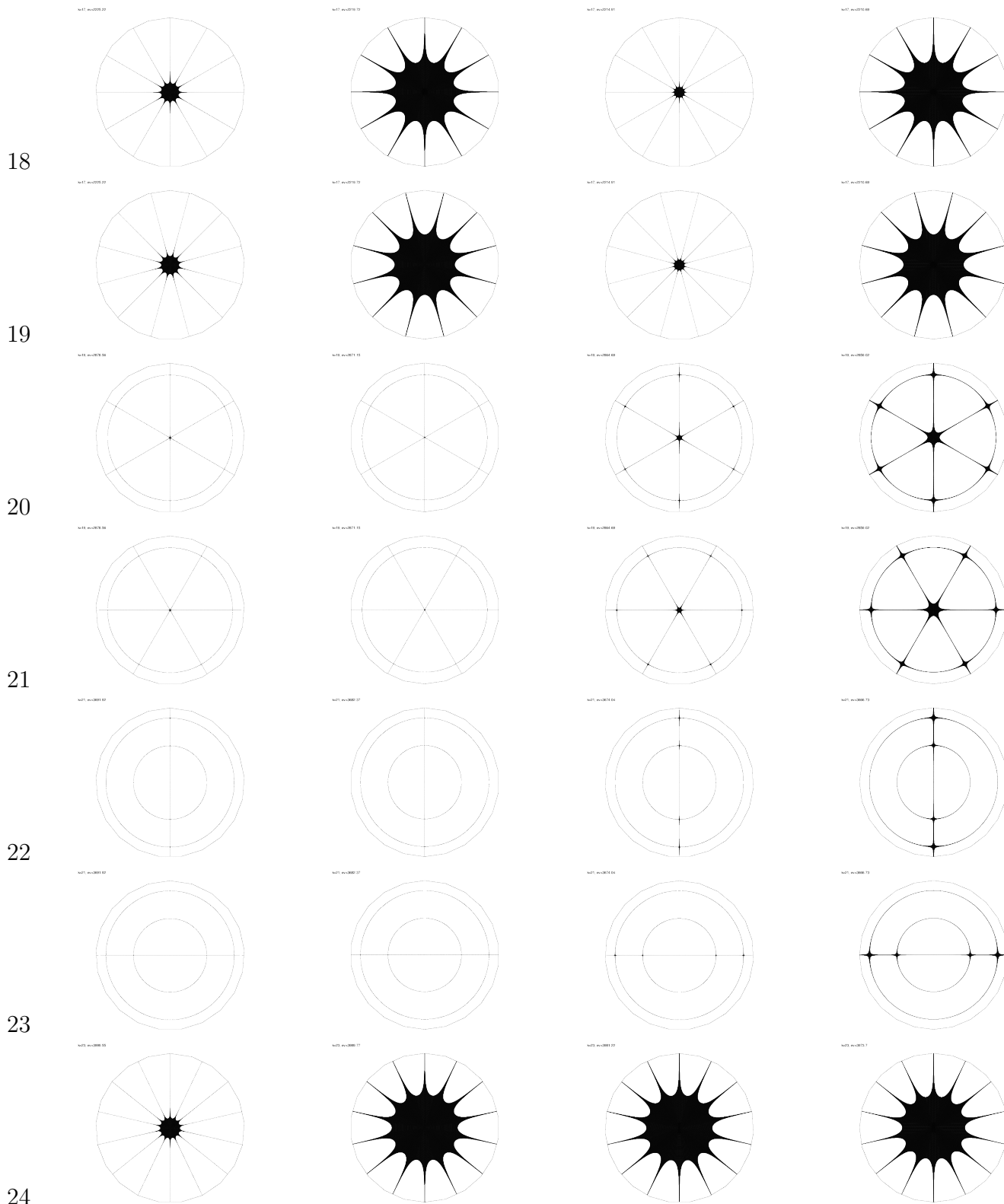
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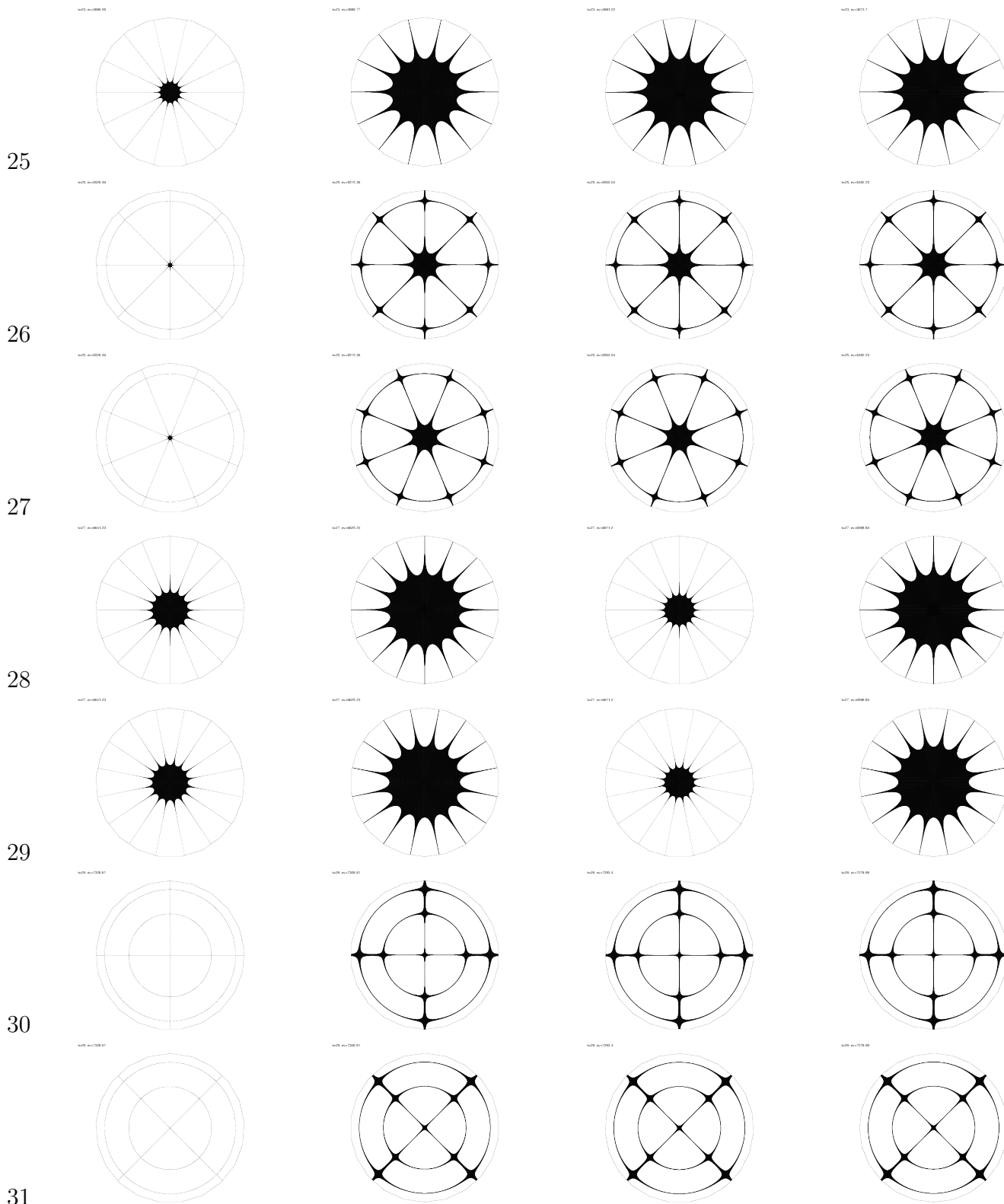
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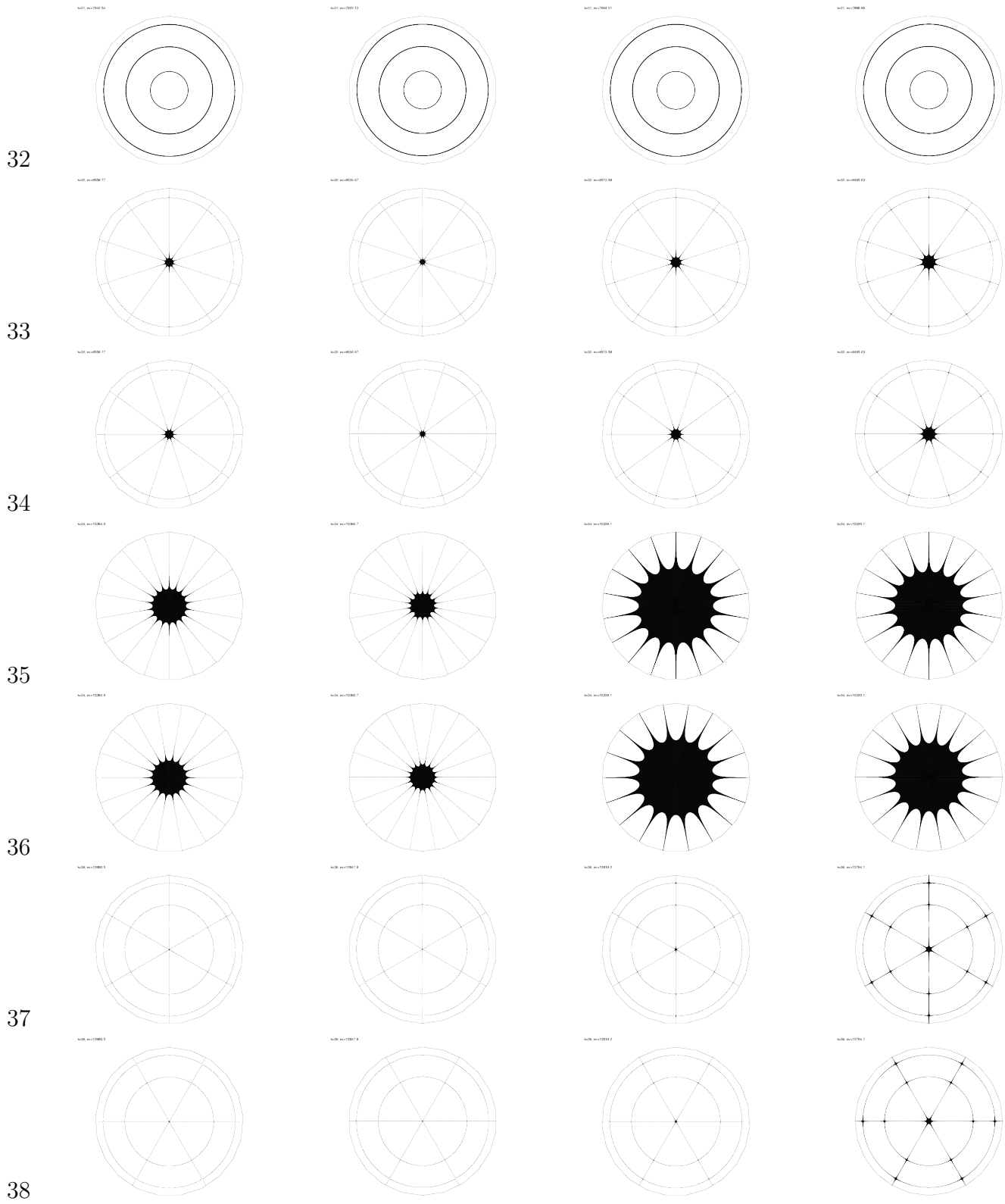
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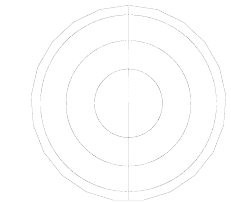
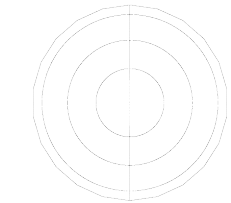
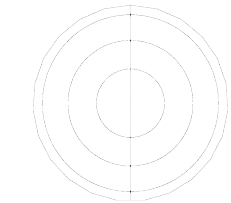
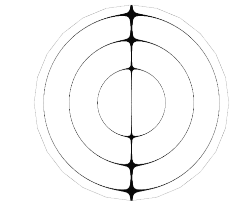
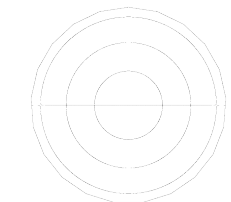
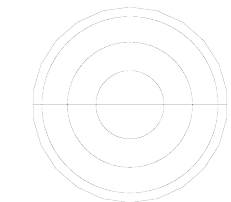
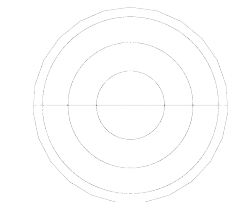
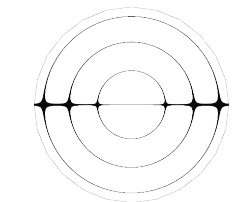
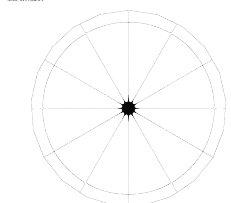
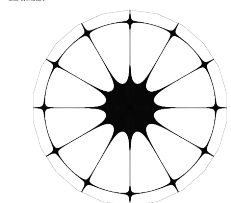
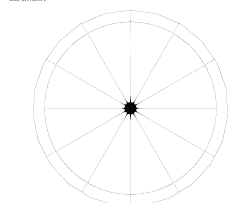
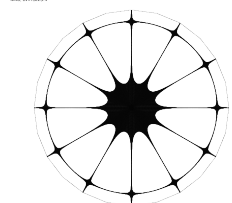
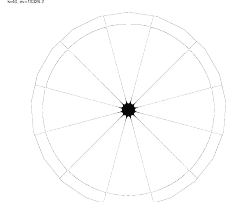
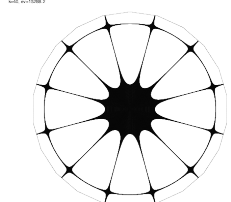
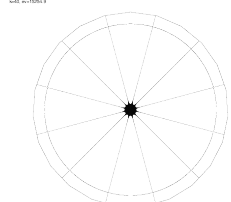
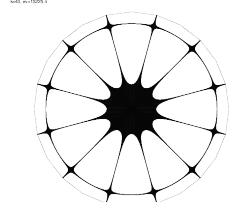
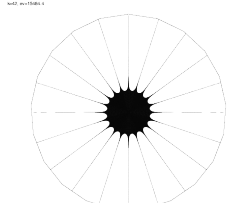
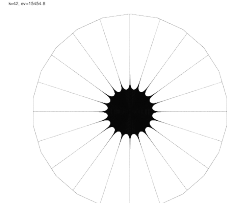
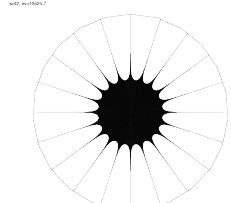
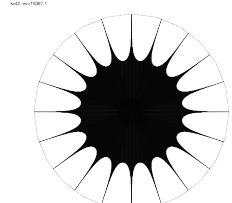
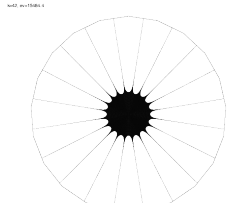
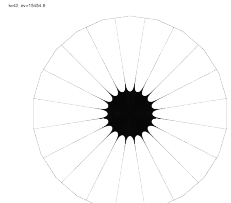
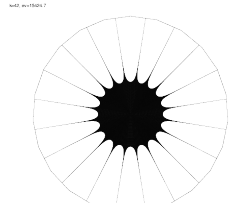
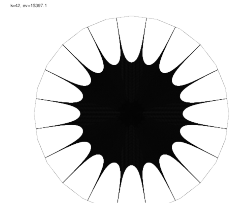
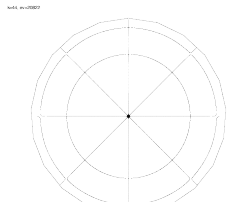
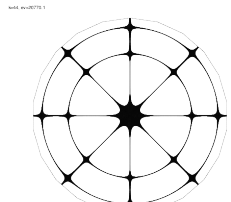
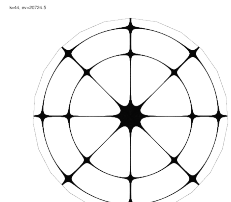
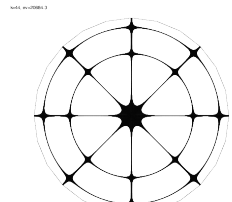
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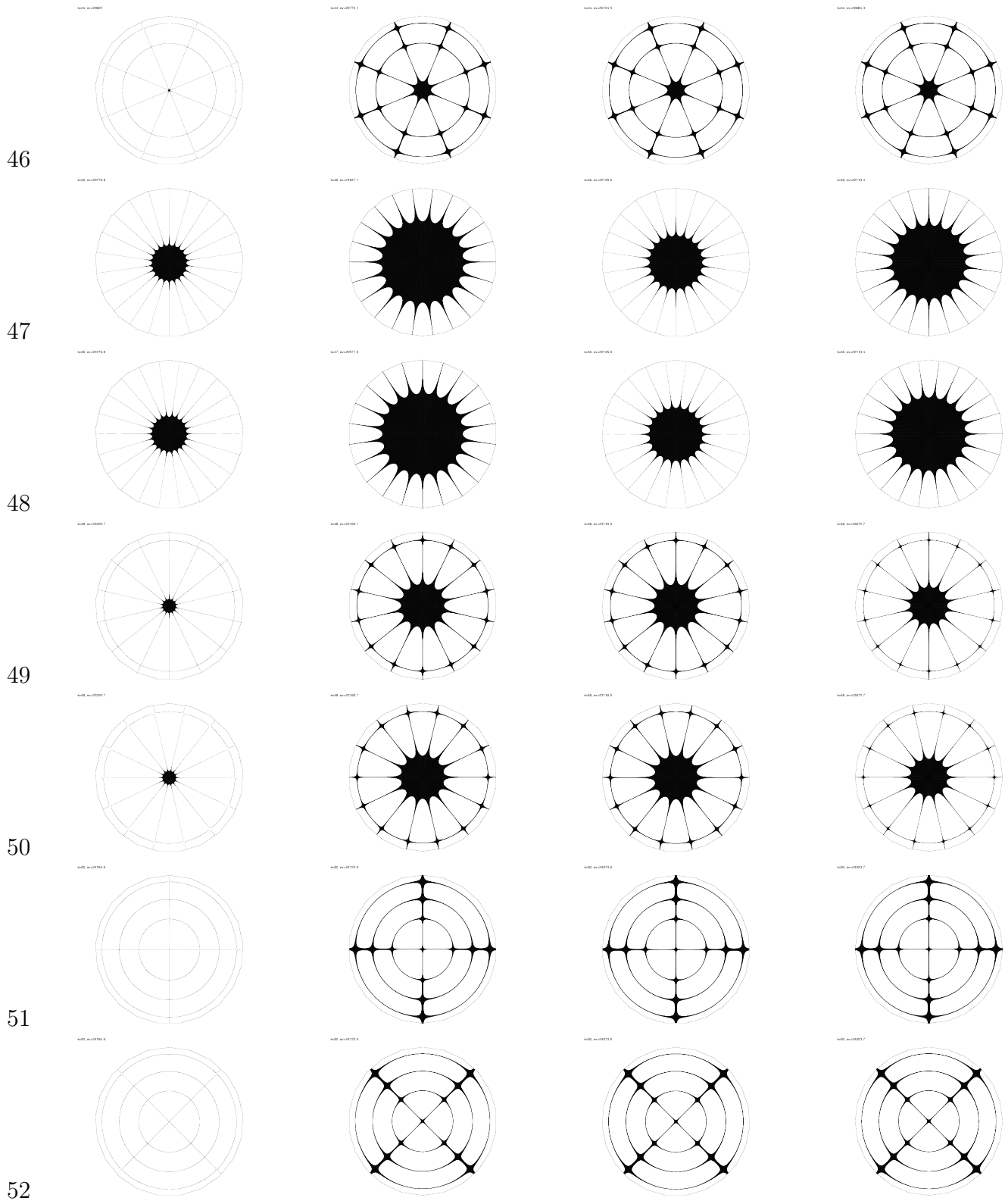
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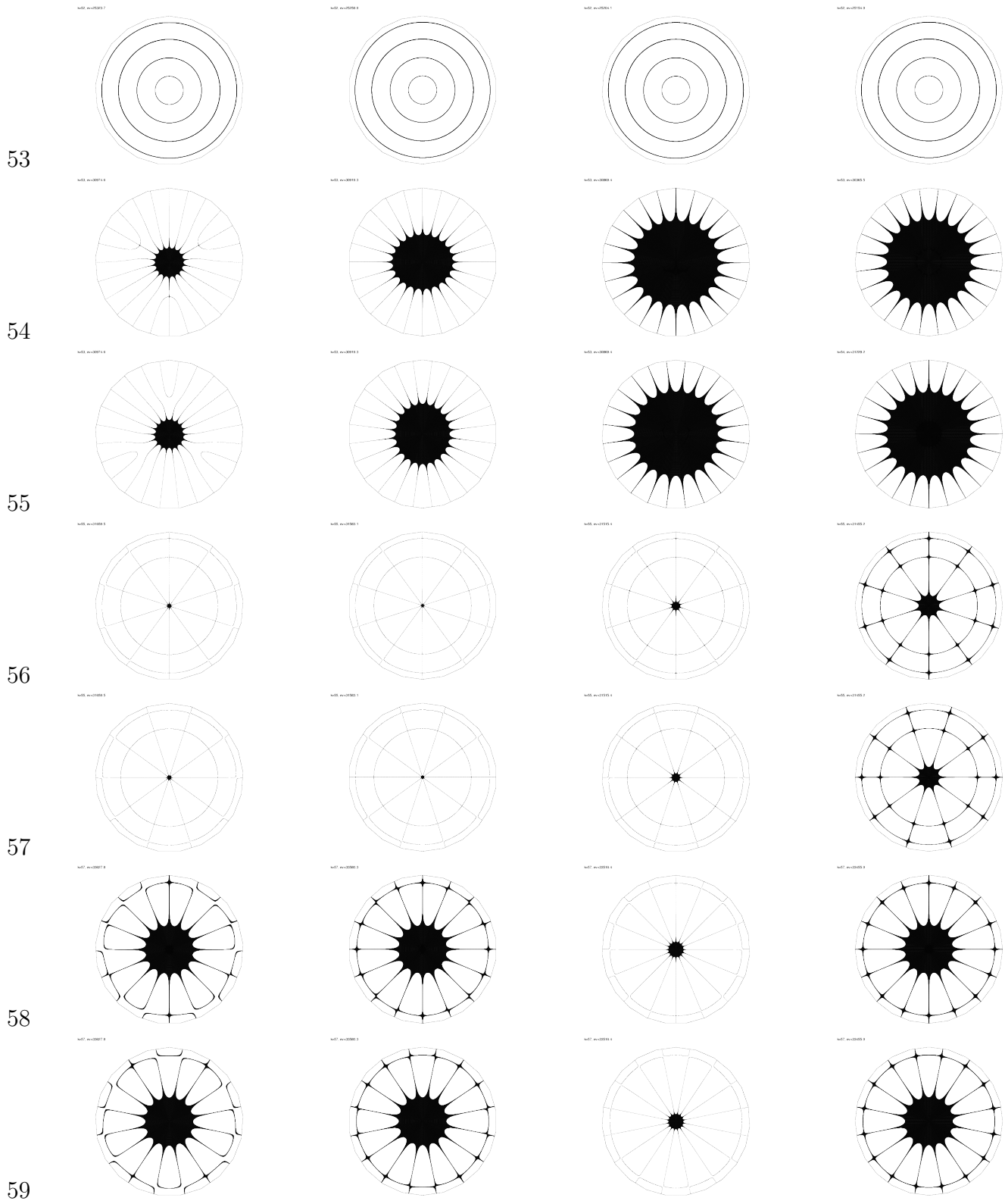
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39				
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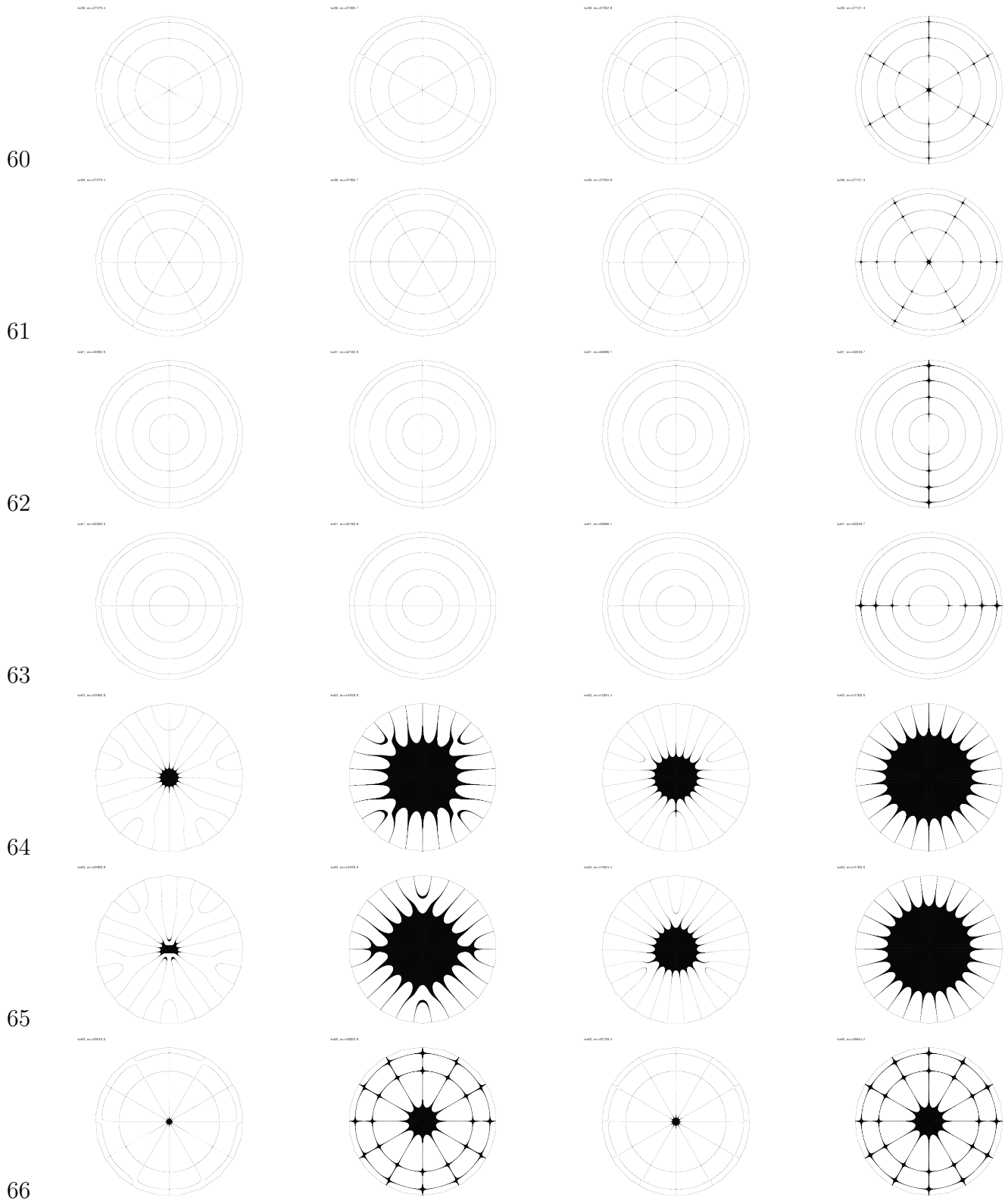
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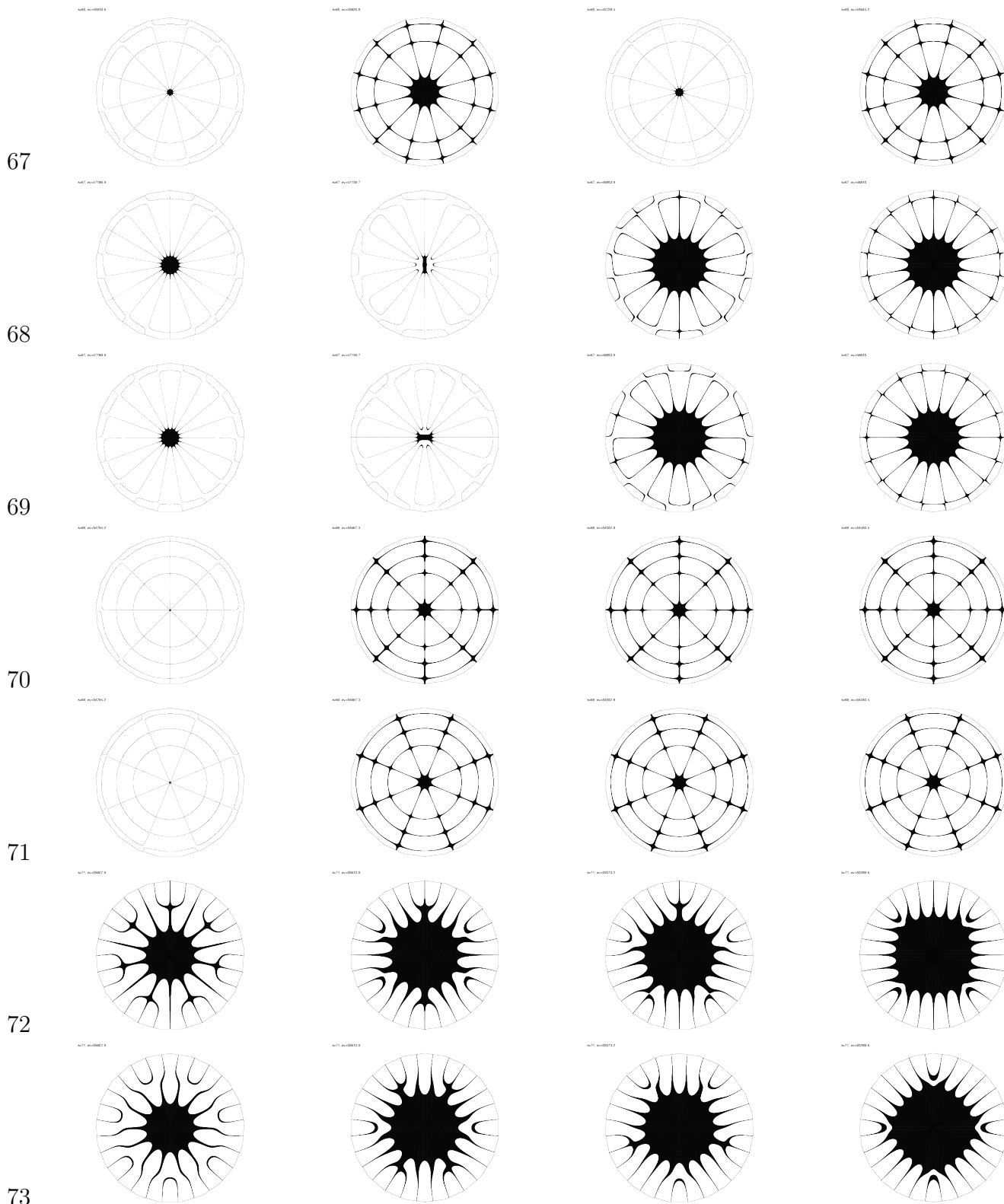
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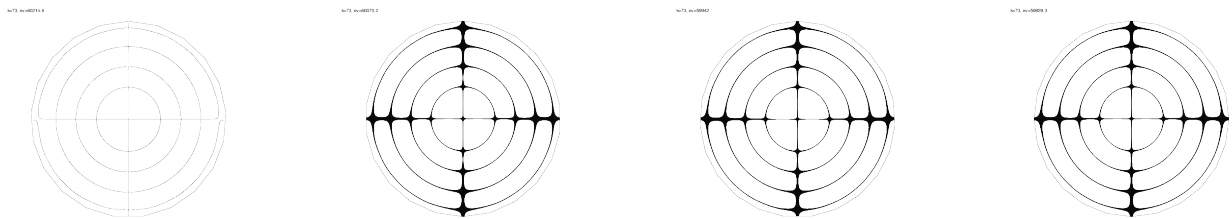


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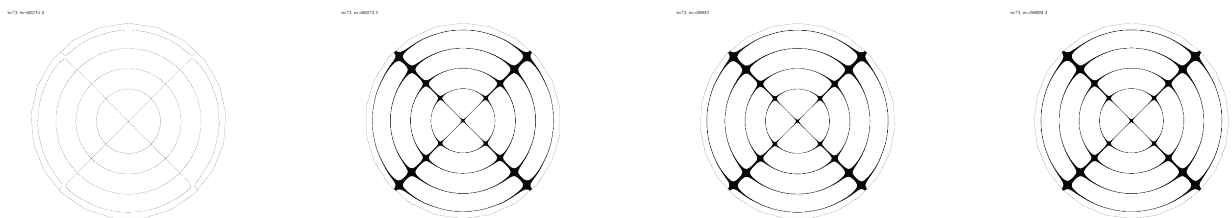


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74



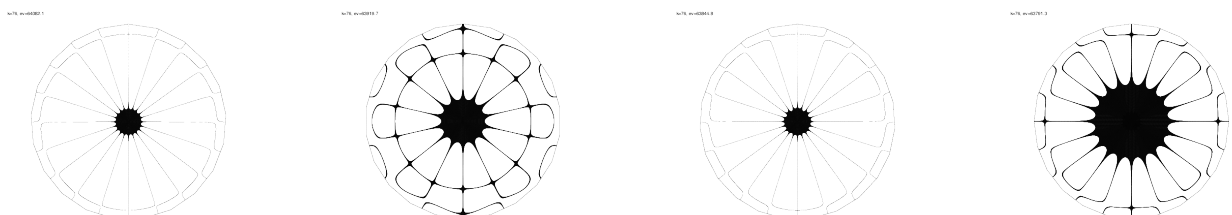
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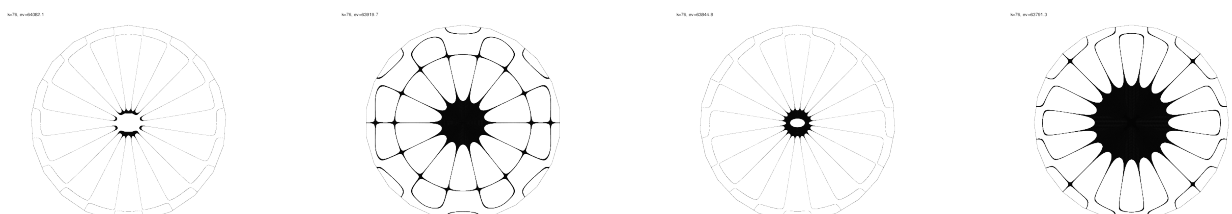
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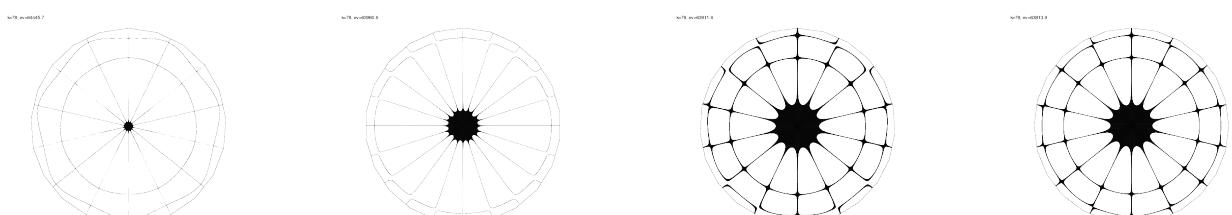
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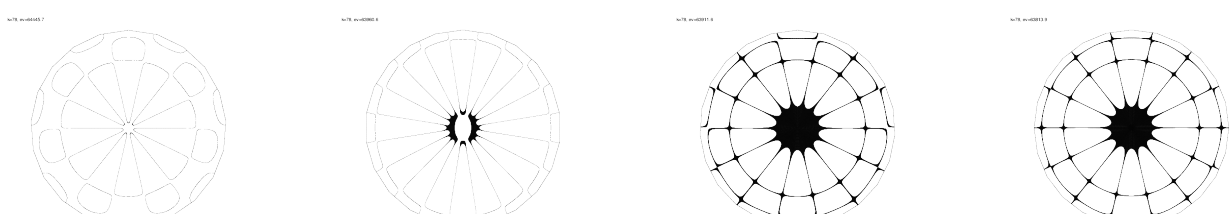
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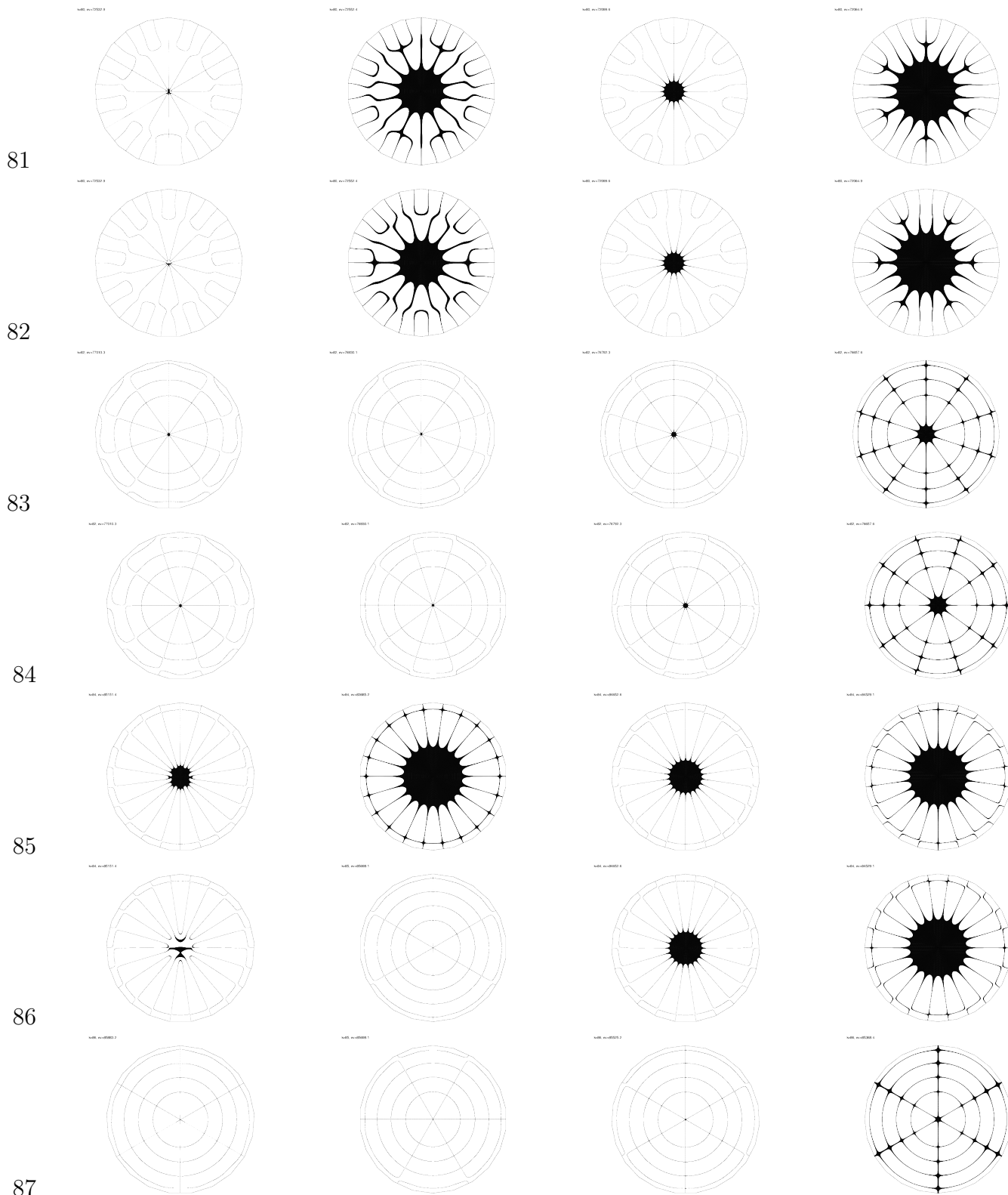
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80

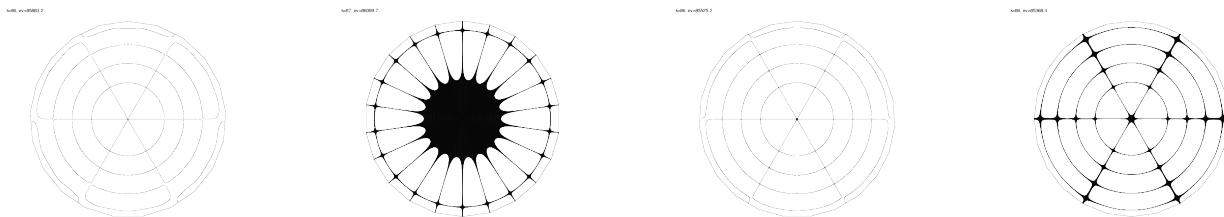


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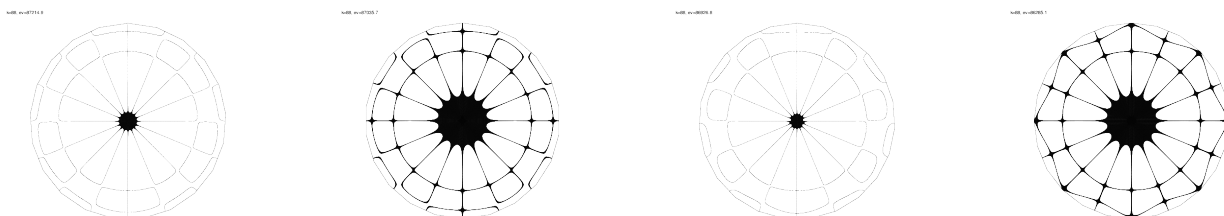


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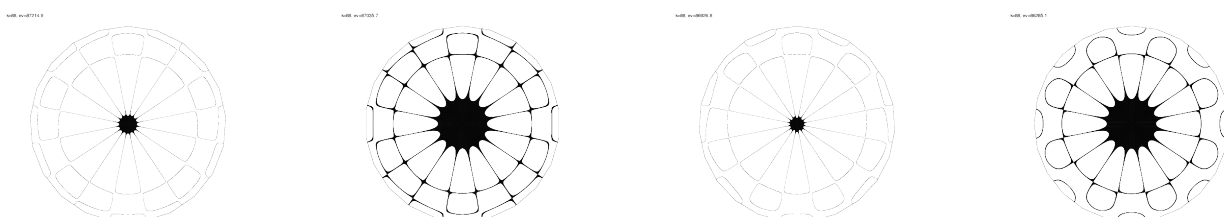
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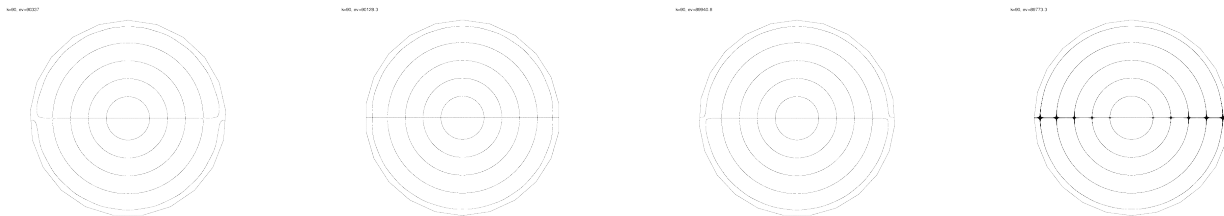
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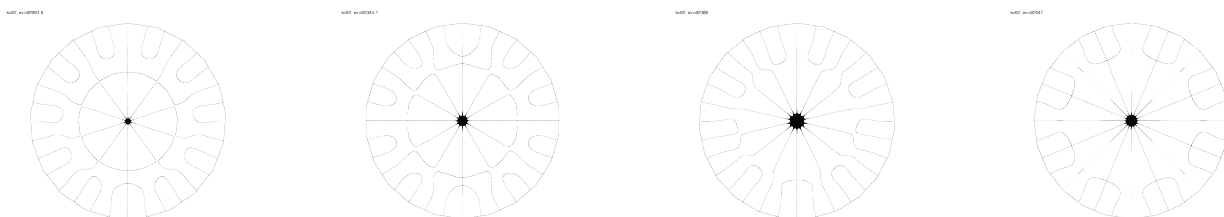
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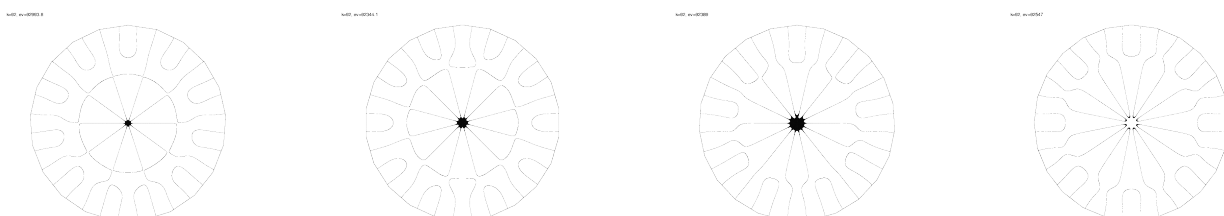
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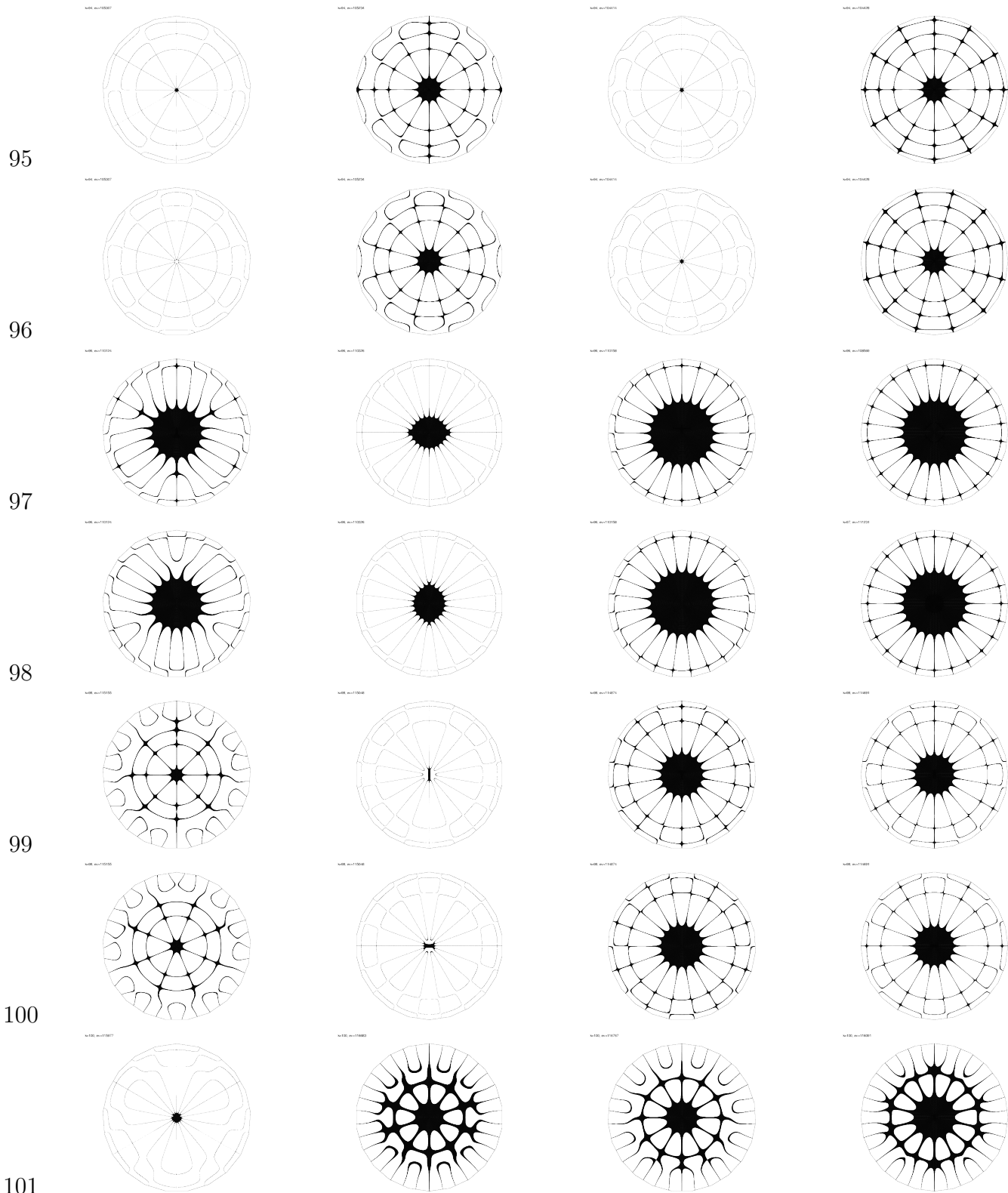
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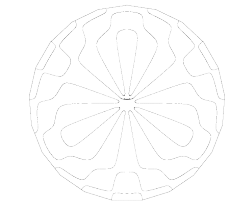
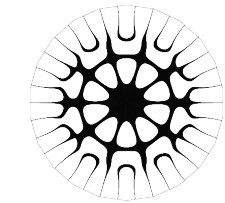
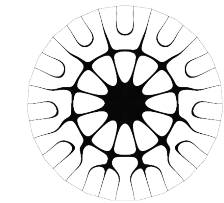
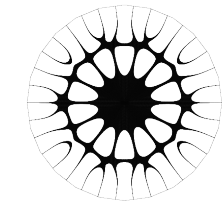
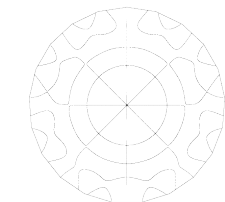
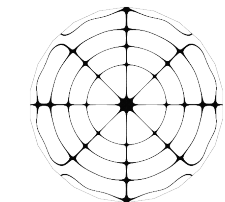
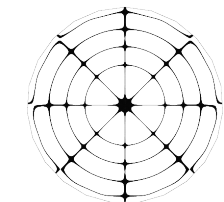
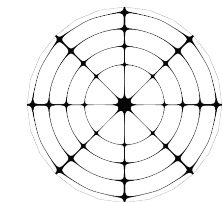
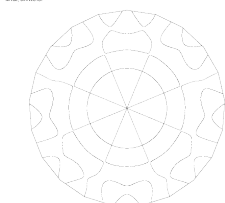
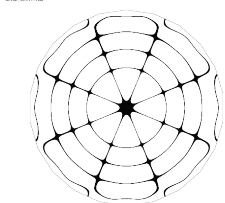
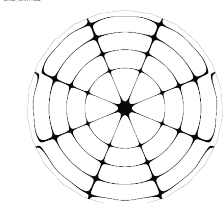
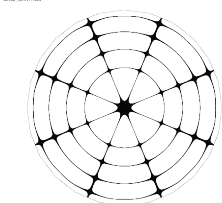
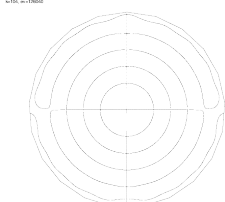
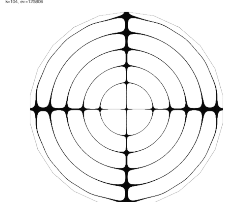
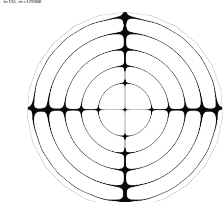
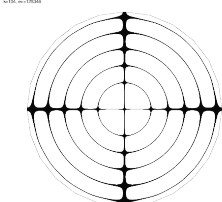
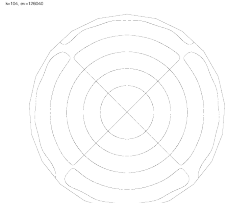
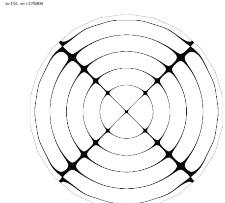
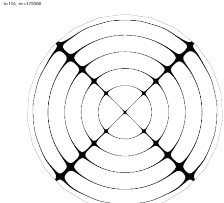
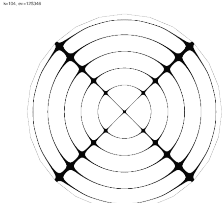
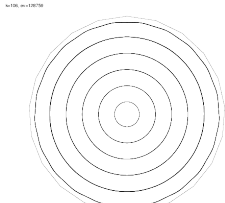
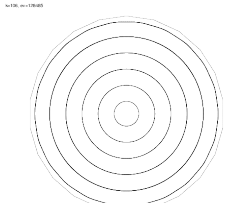
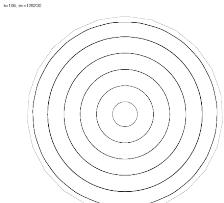
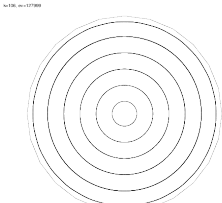
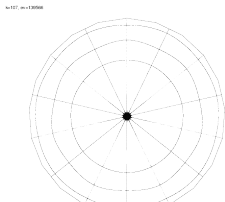
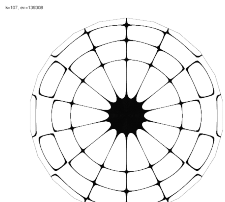
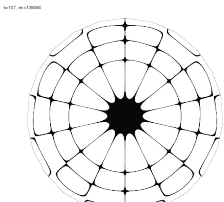
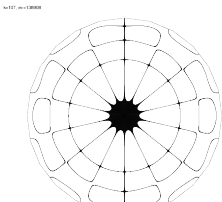
94



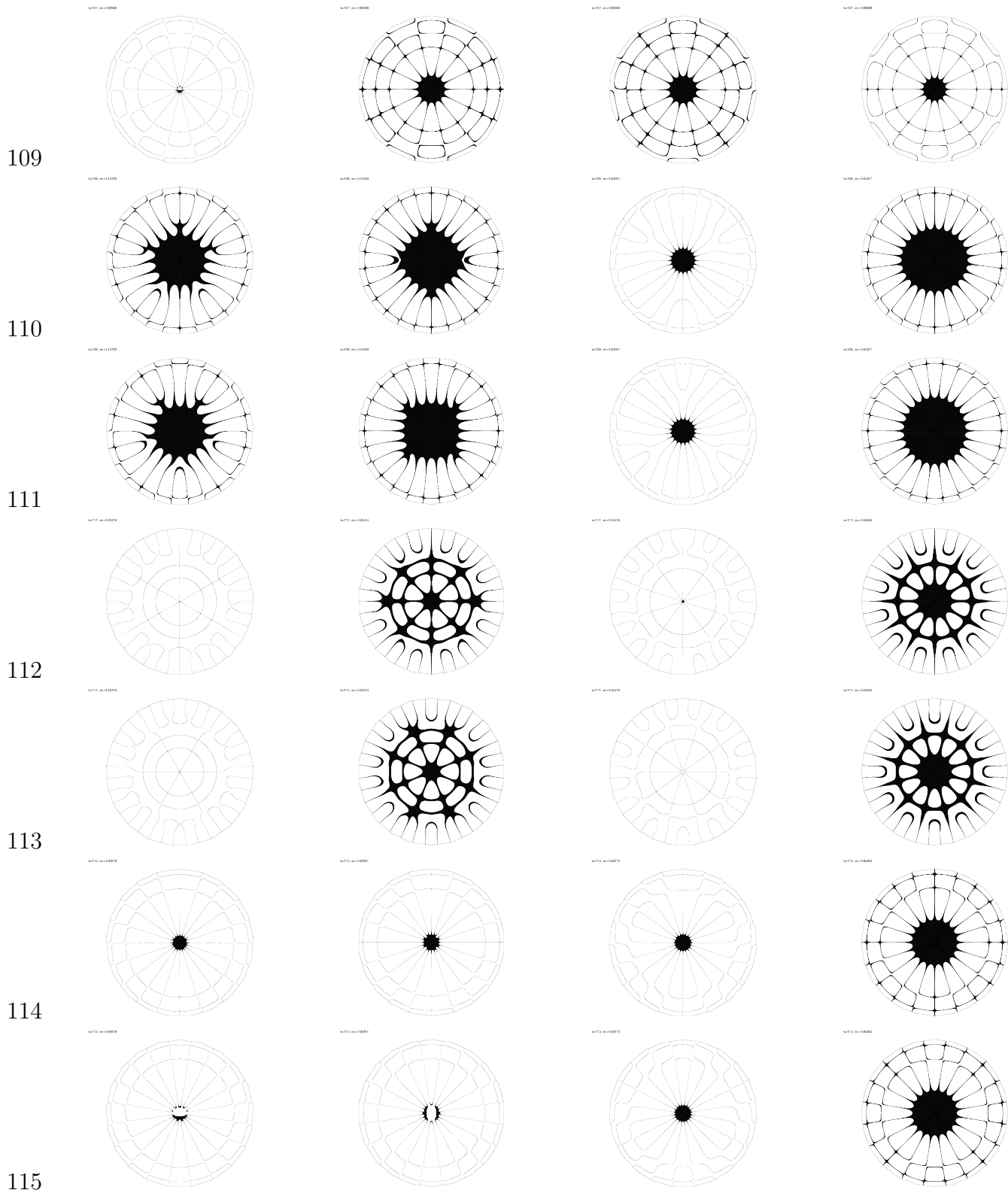
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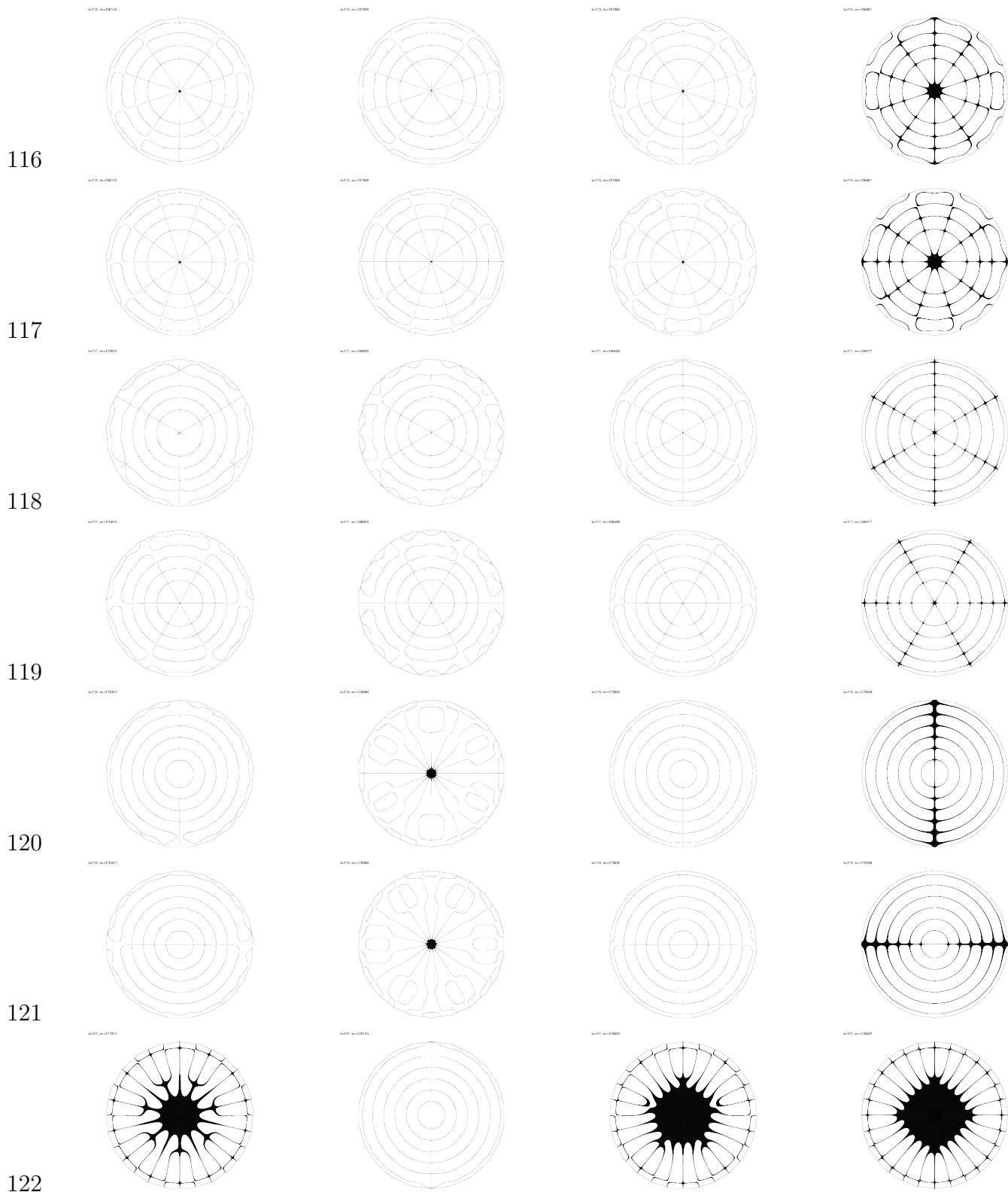
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103				
104				
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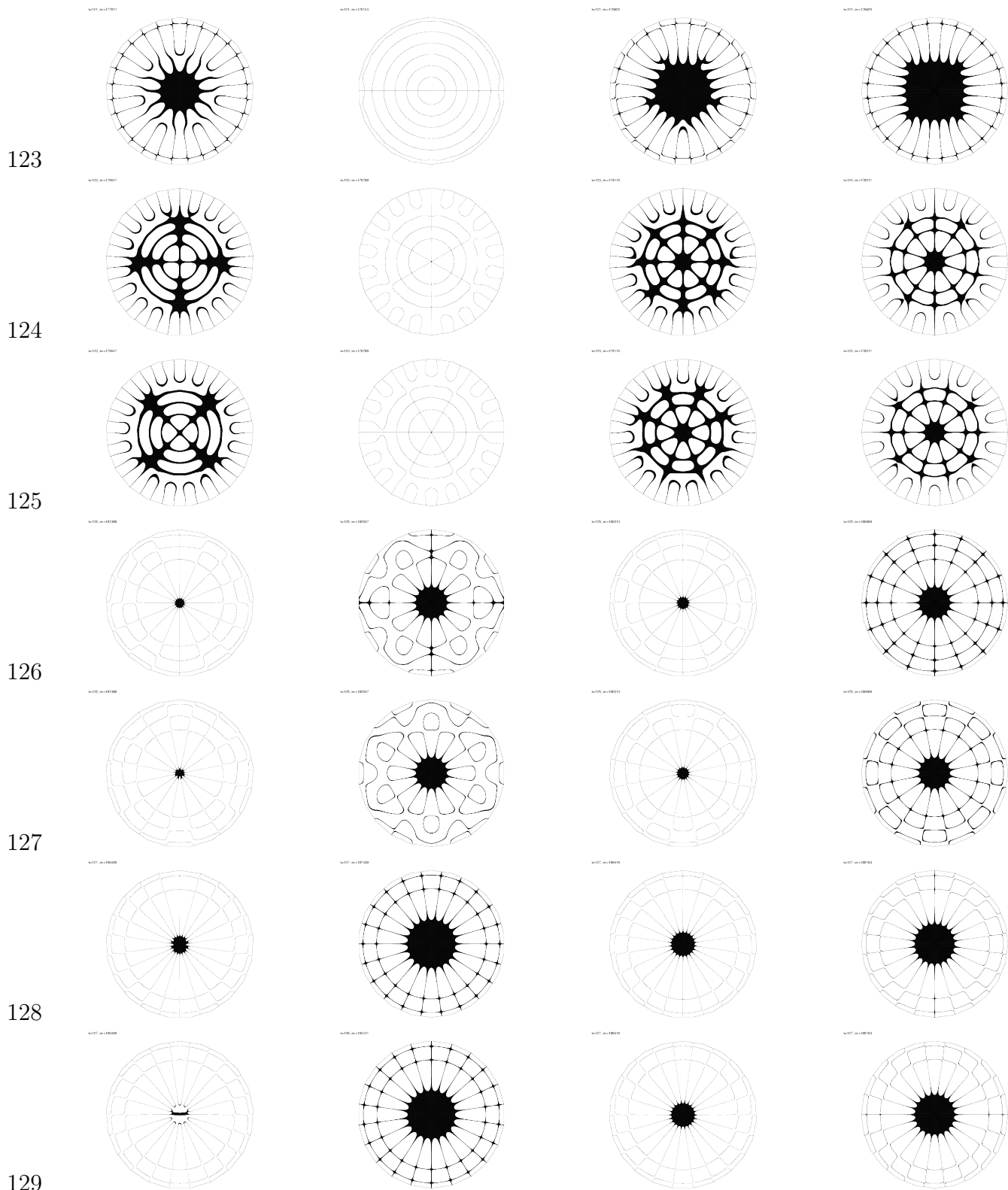
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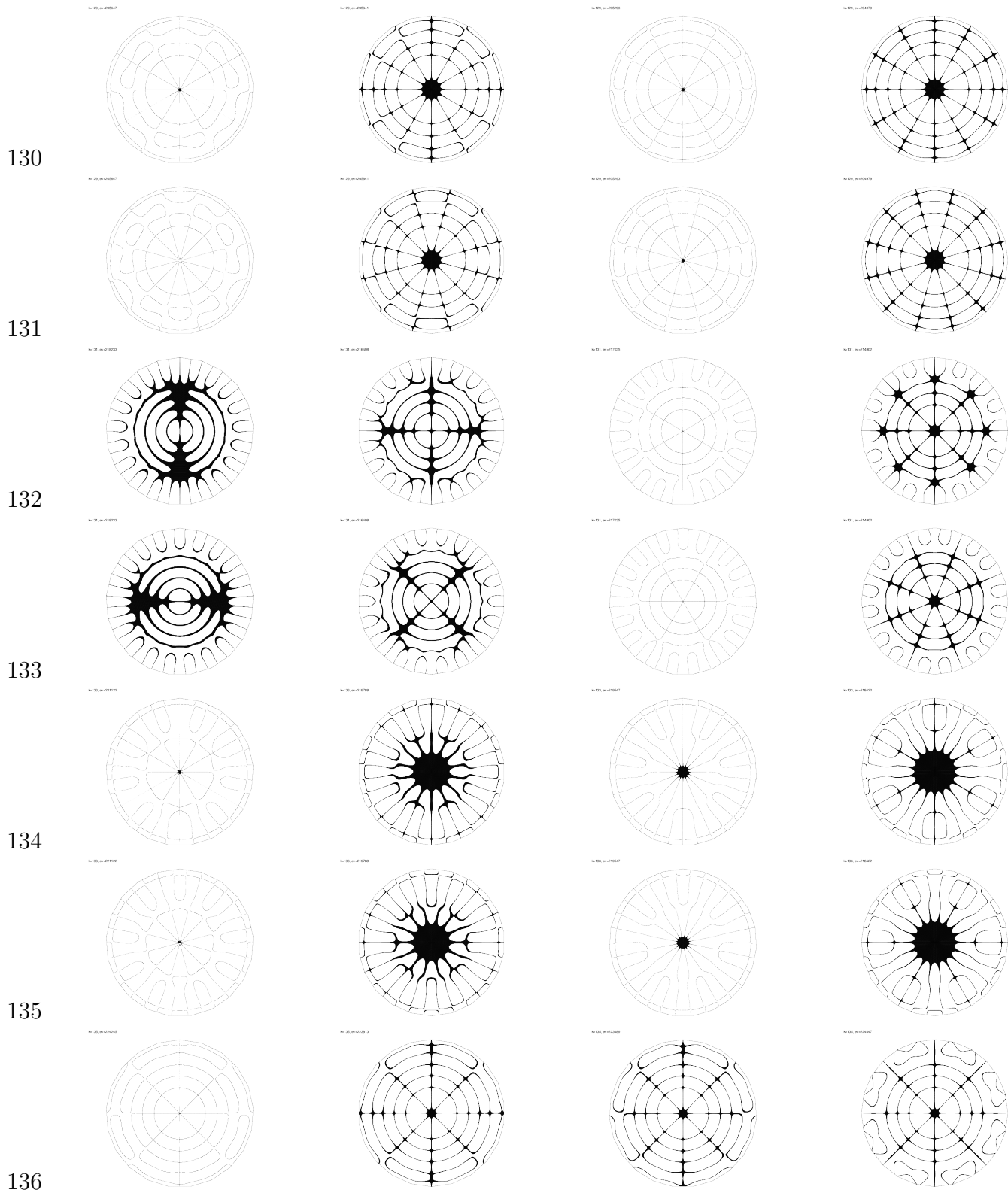
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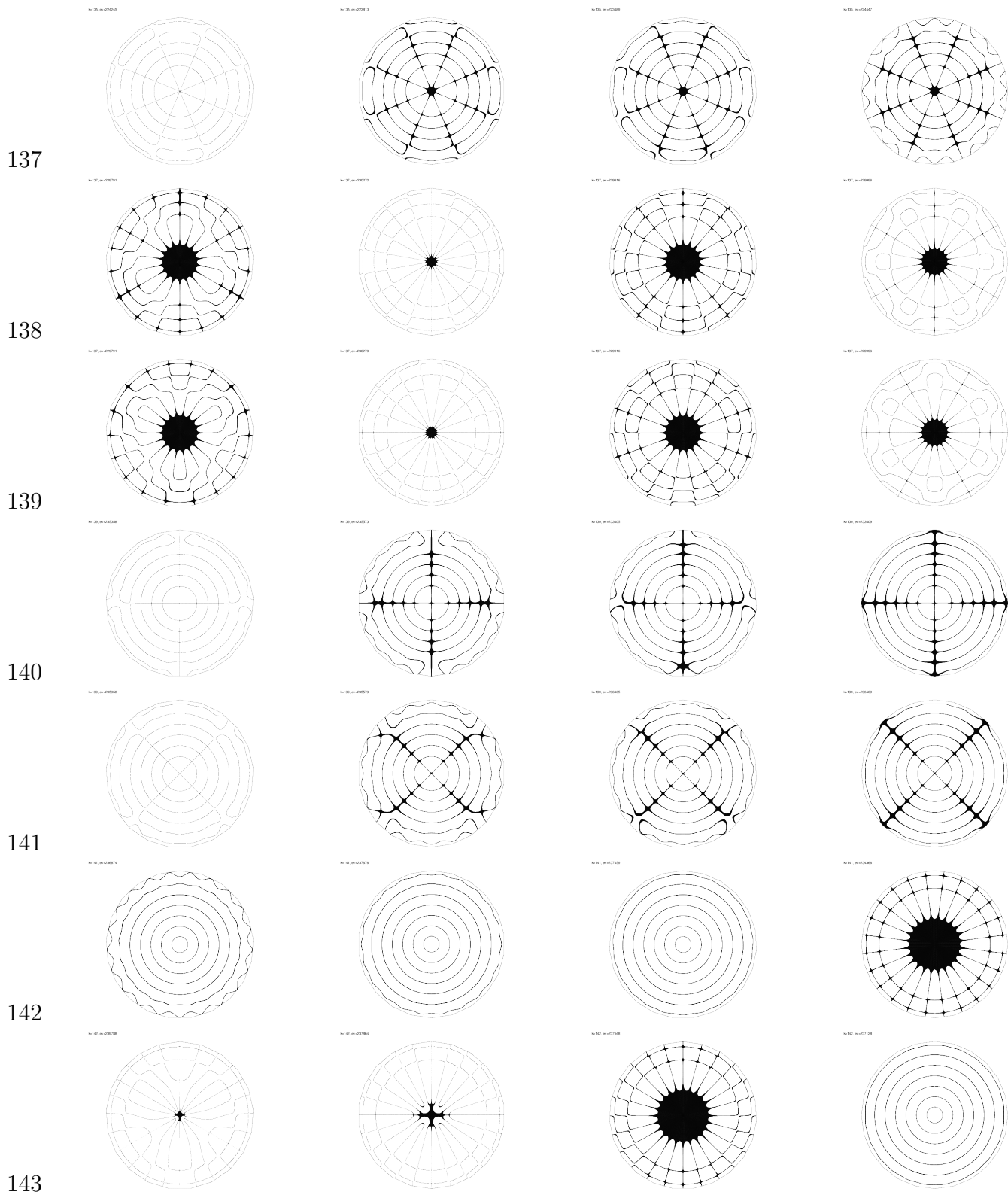
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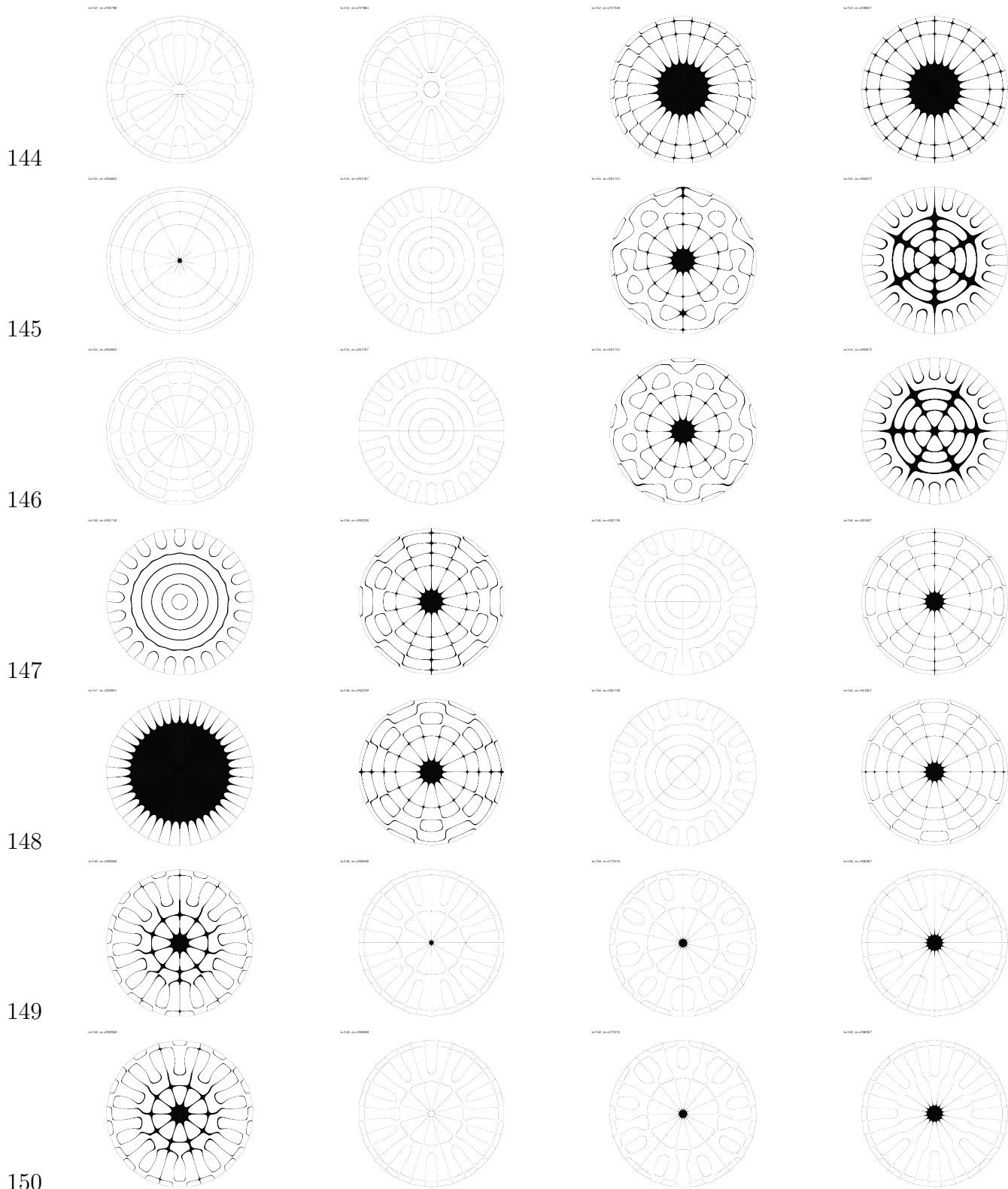
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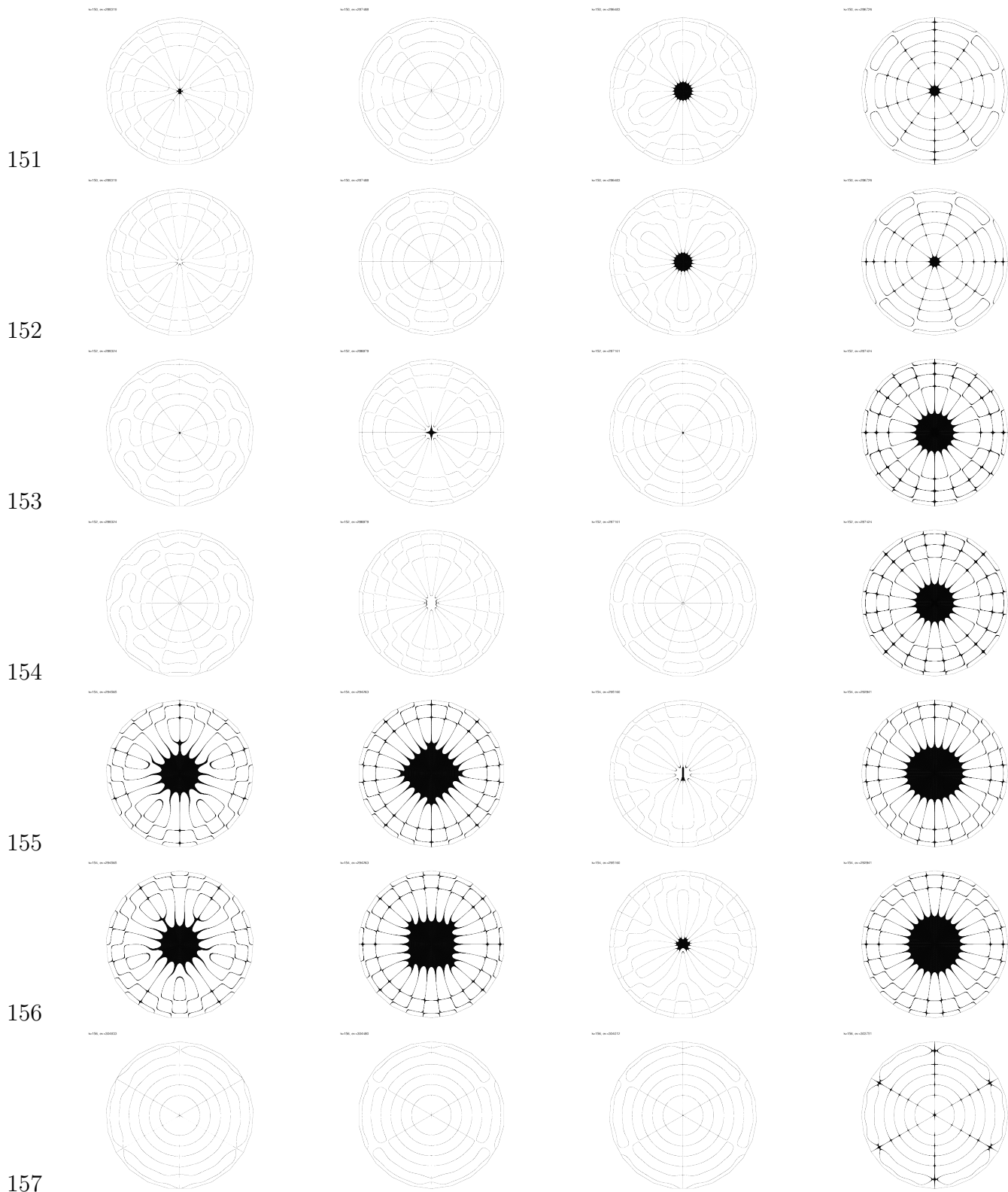
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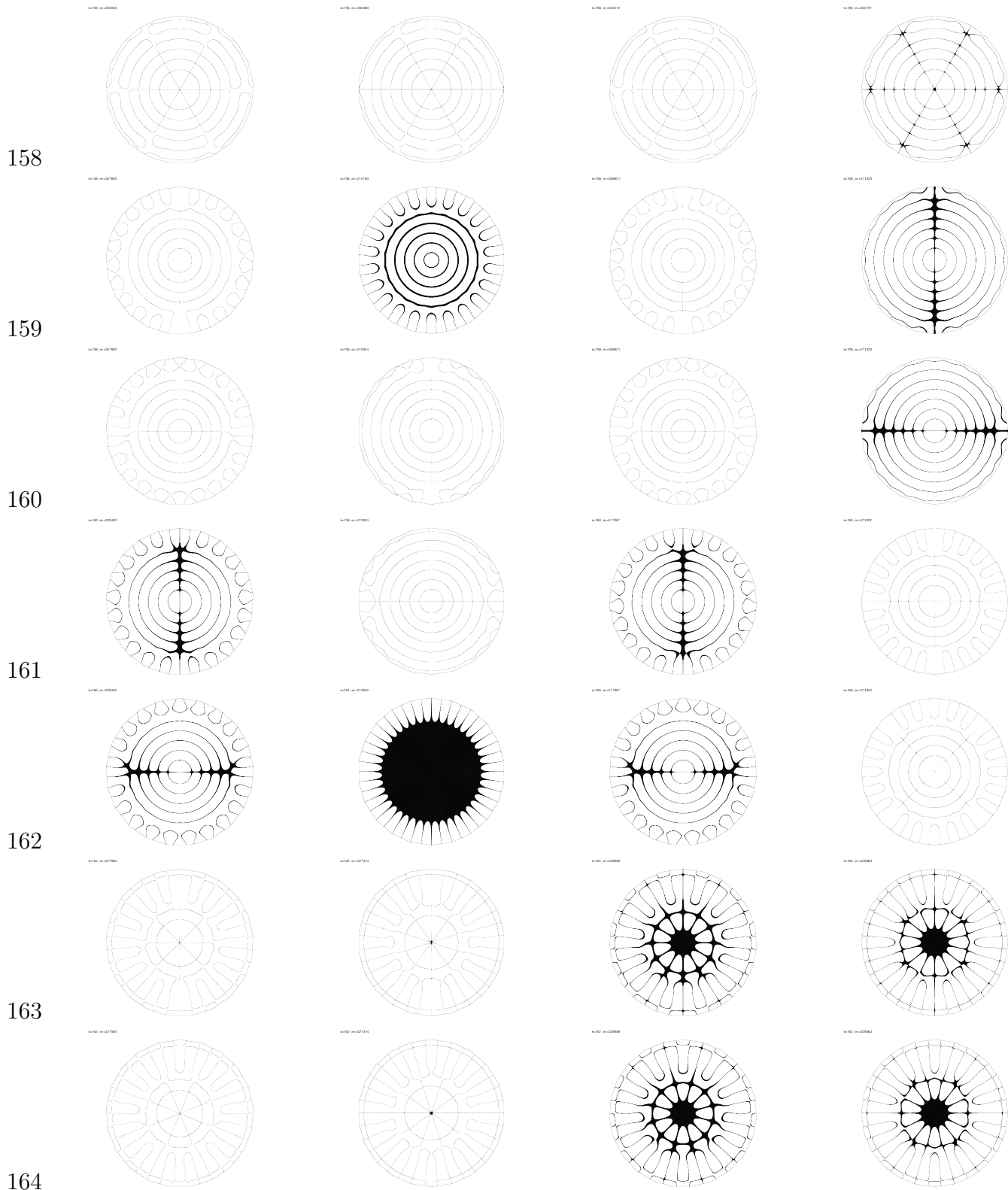
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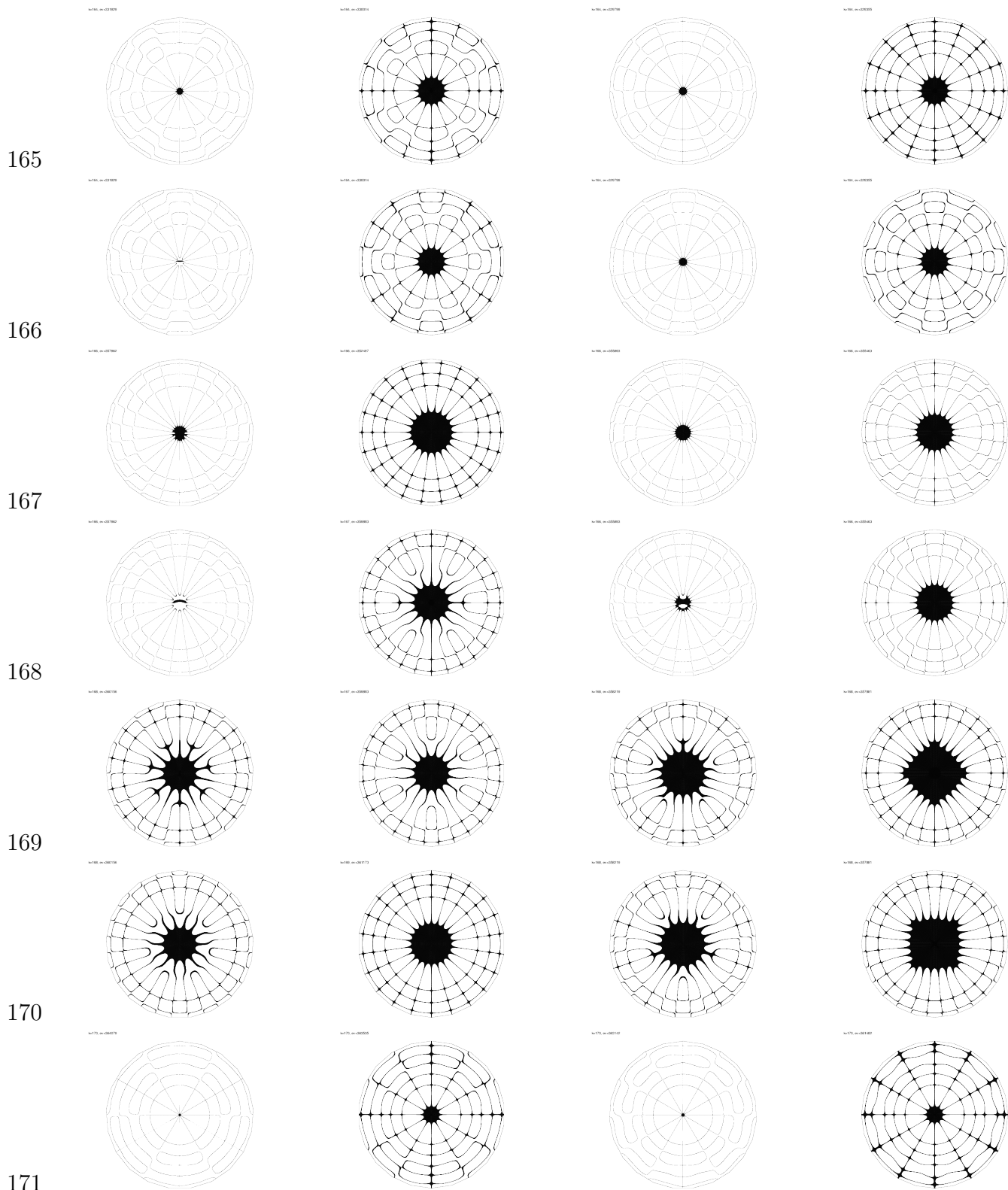
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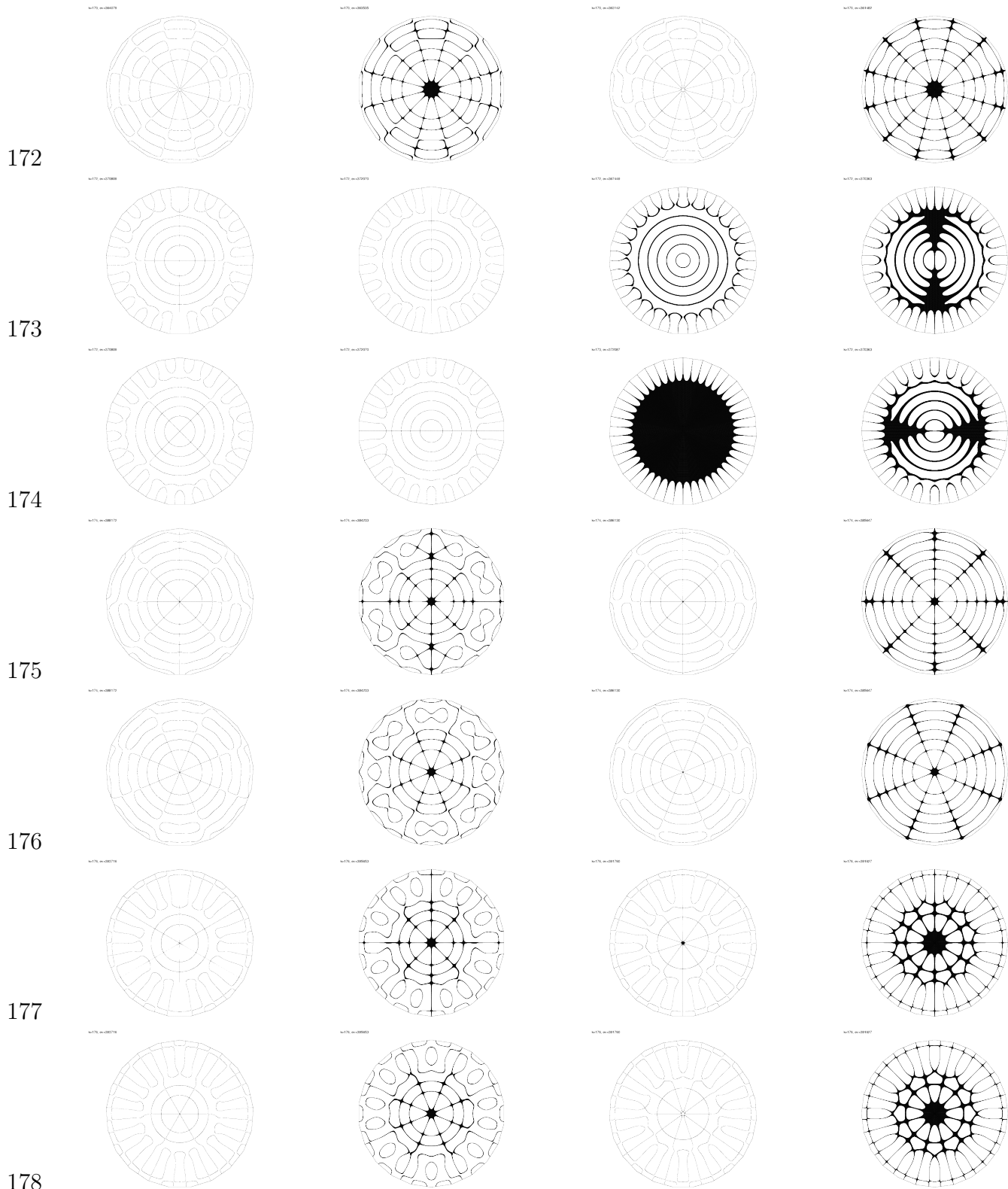
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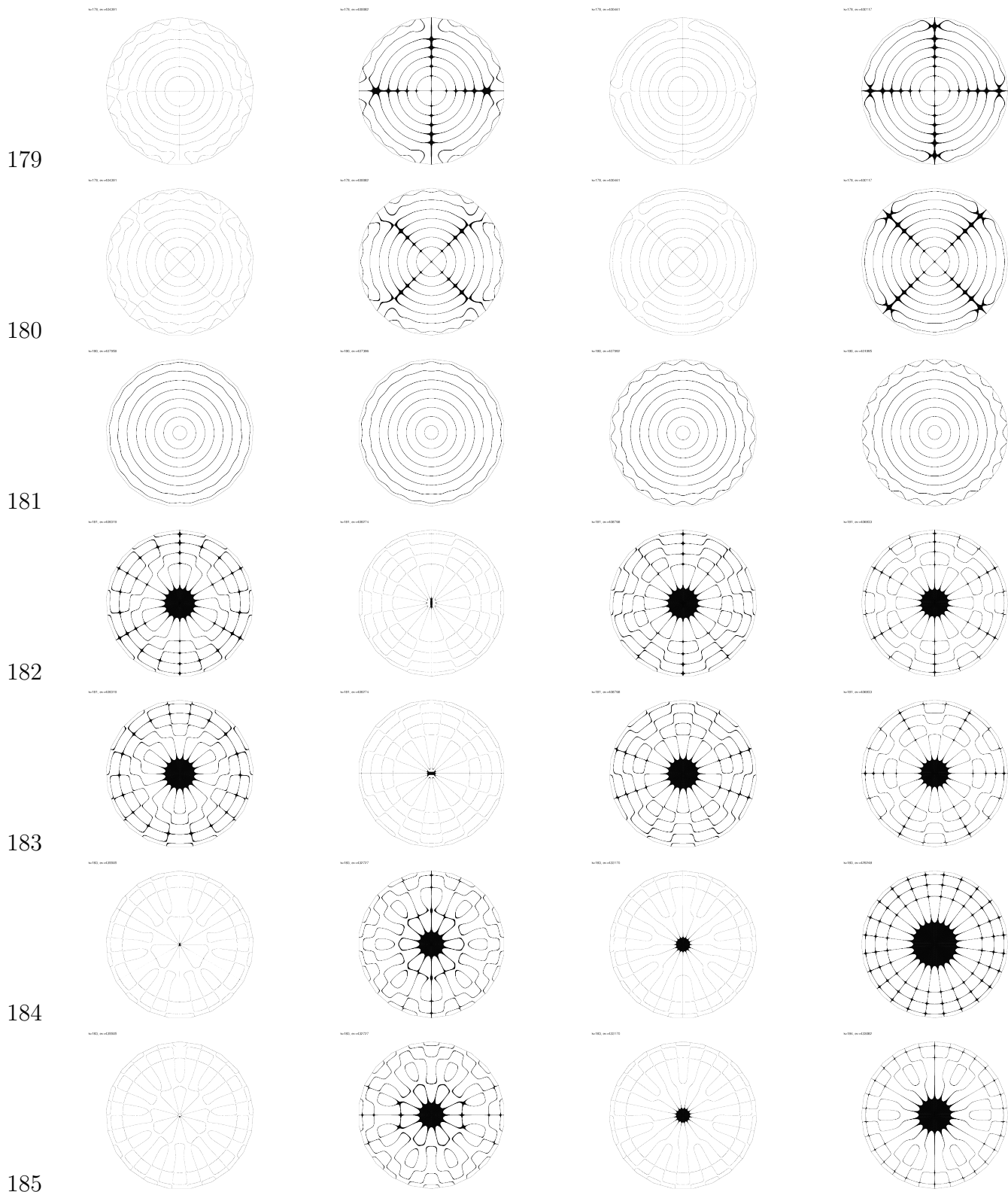
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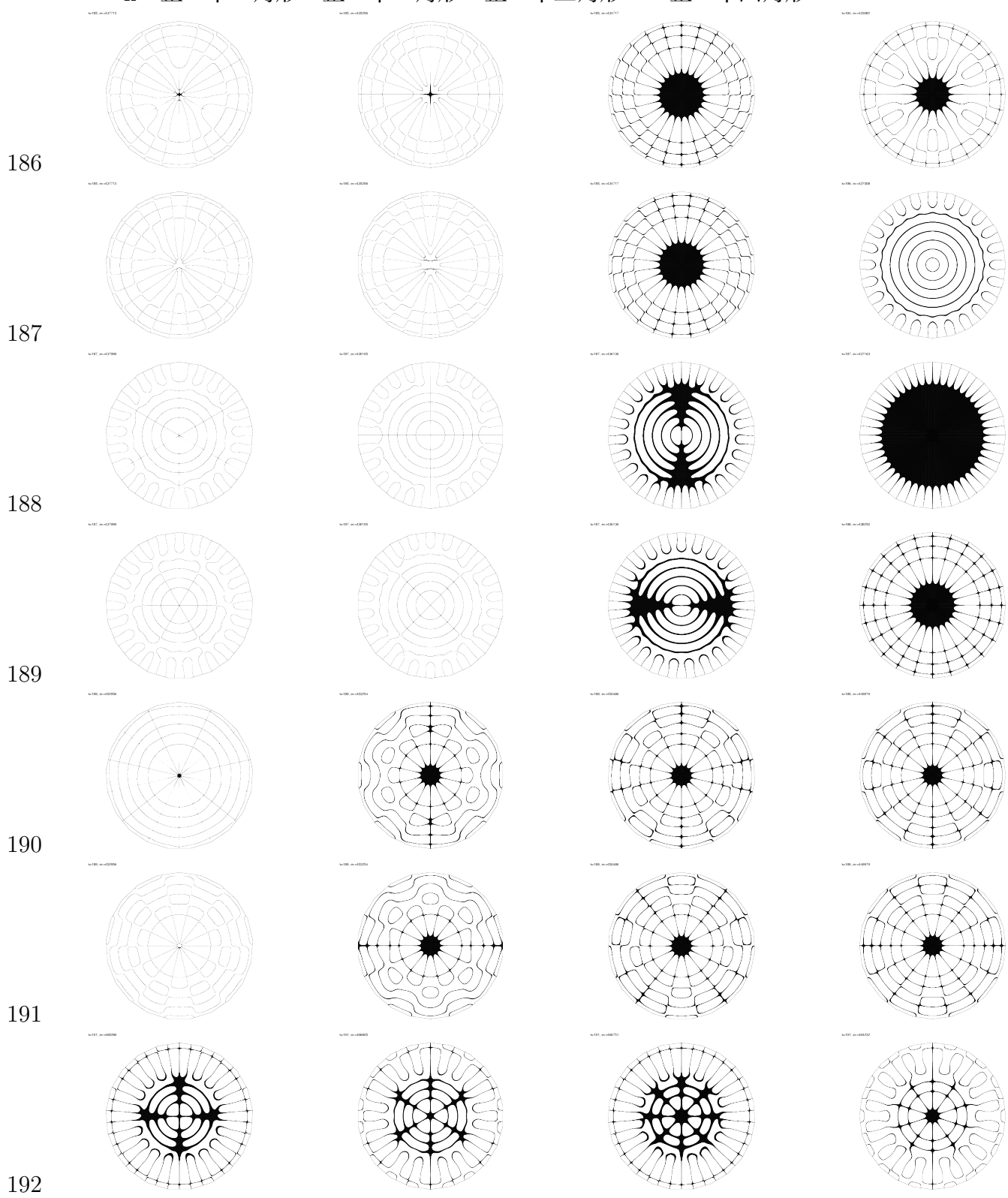
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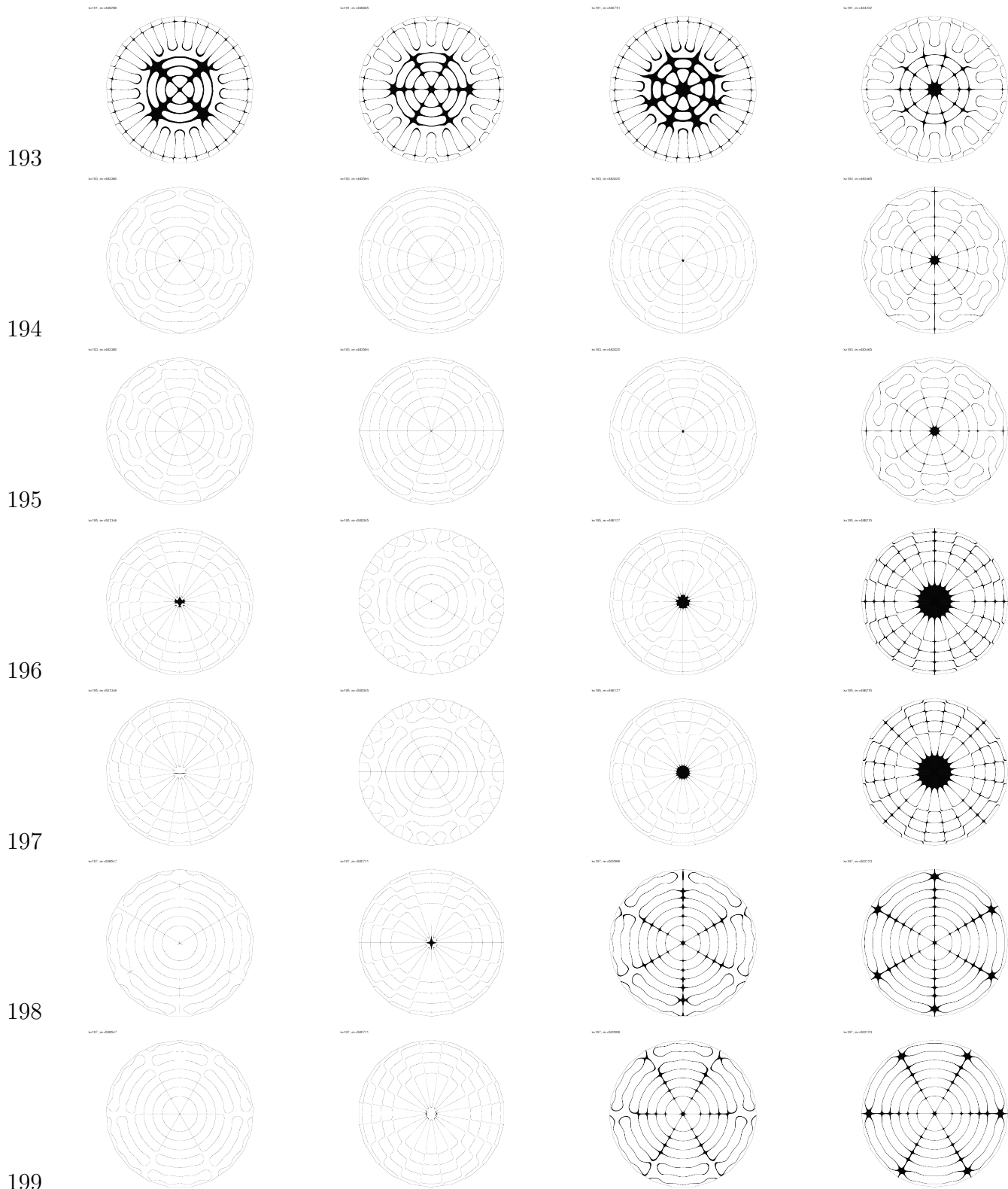
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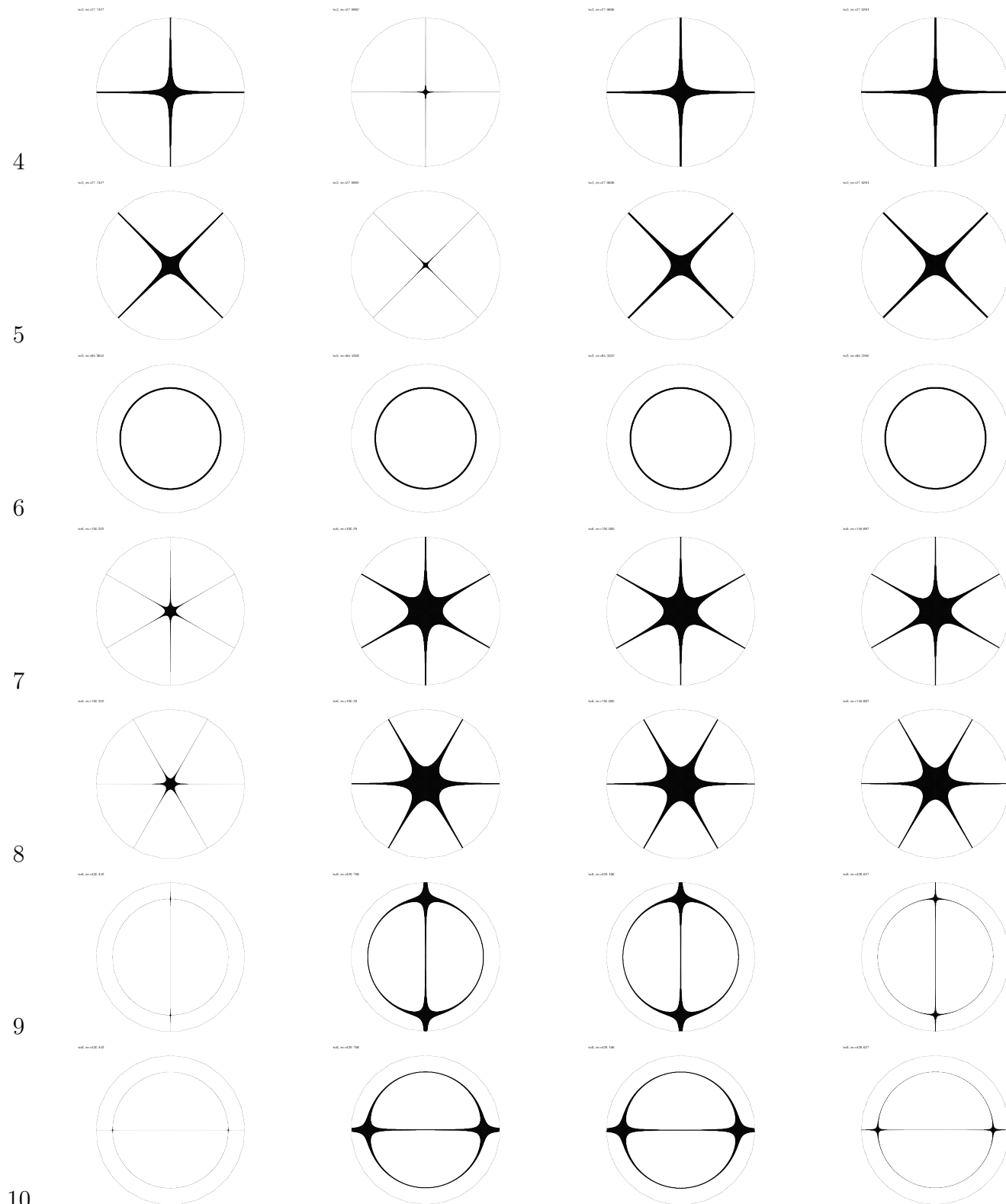
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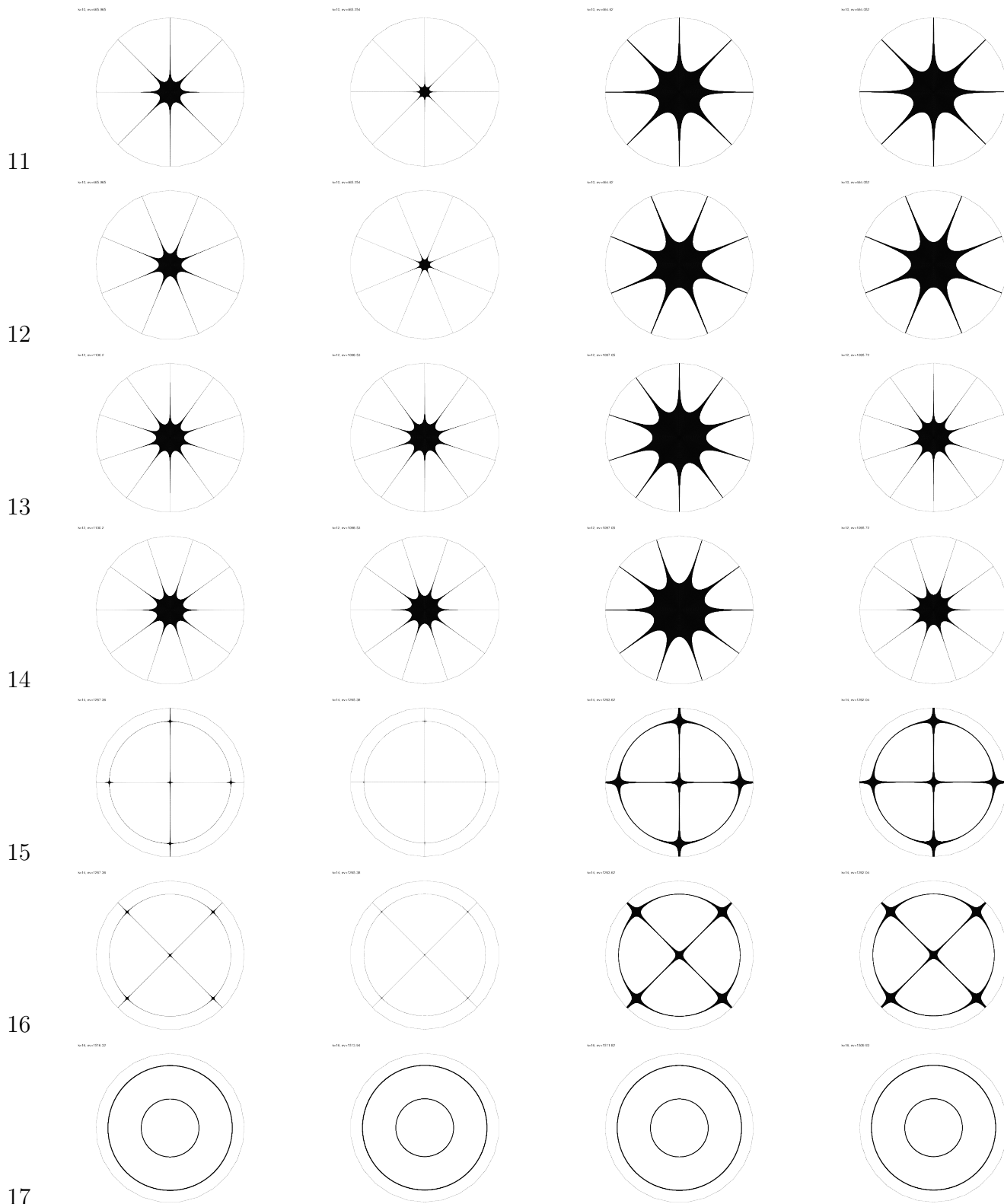
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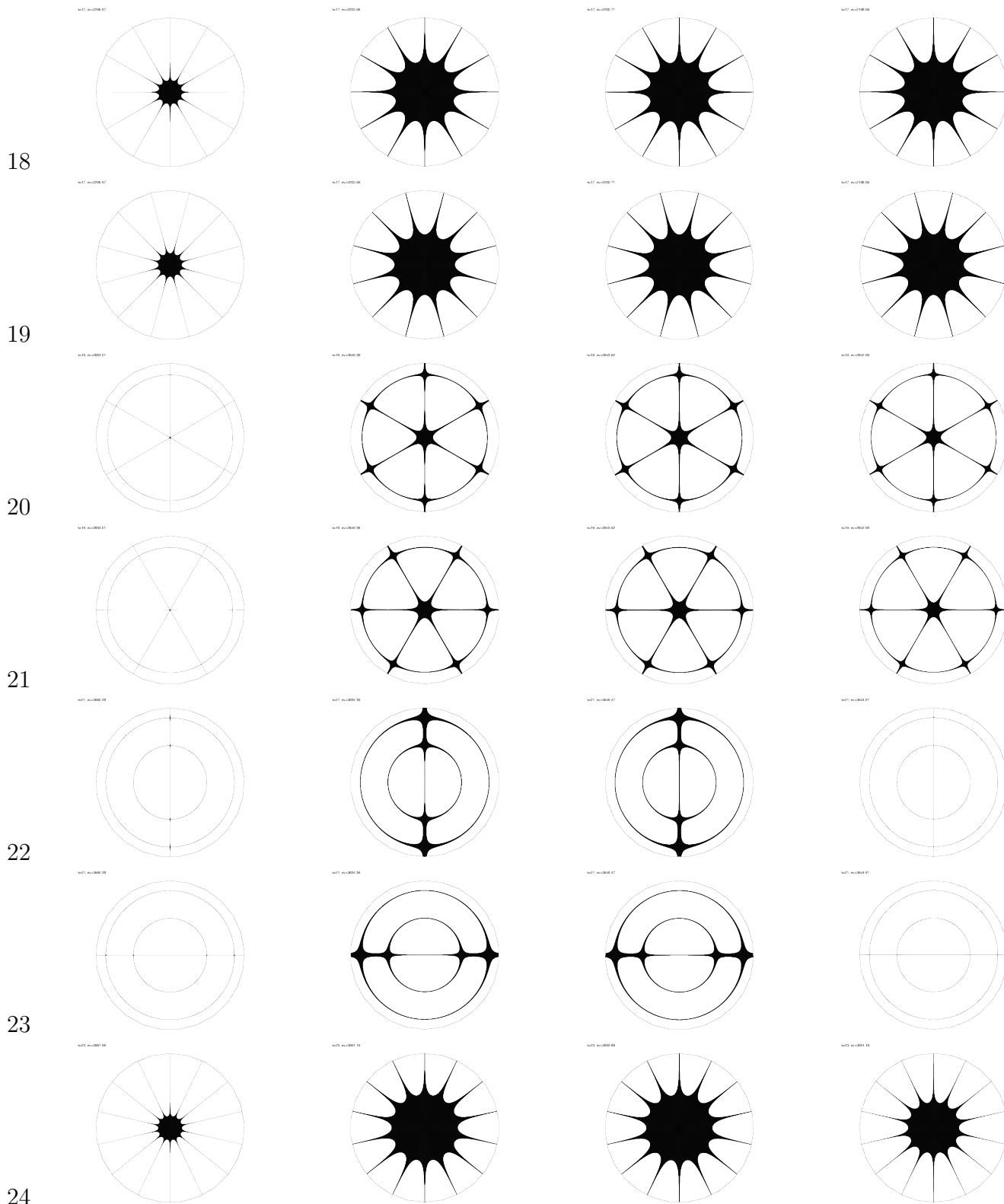
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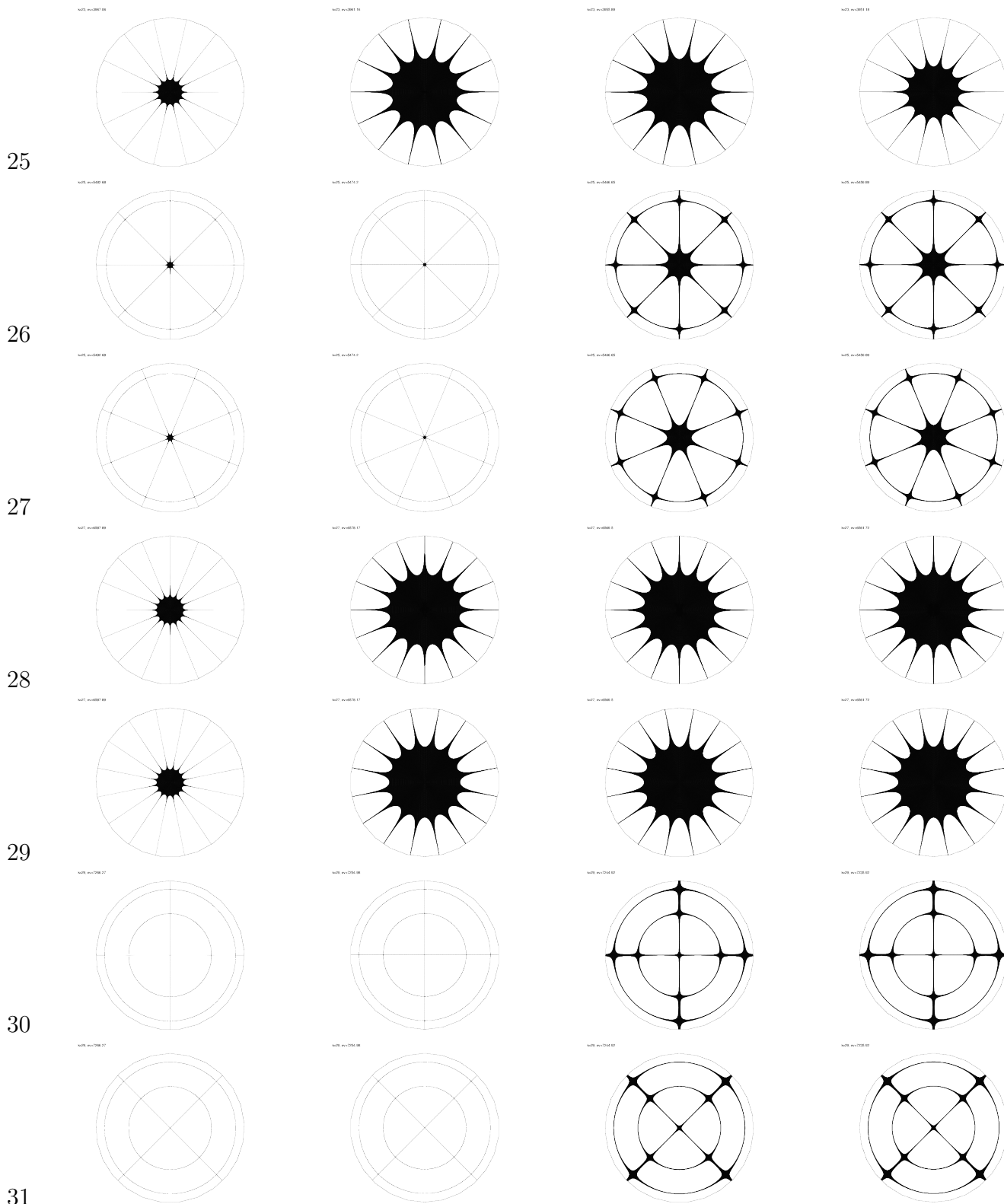
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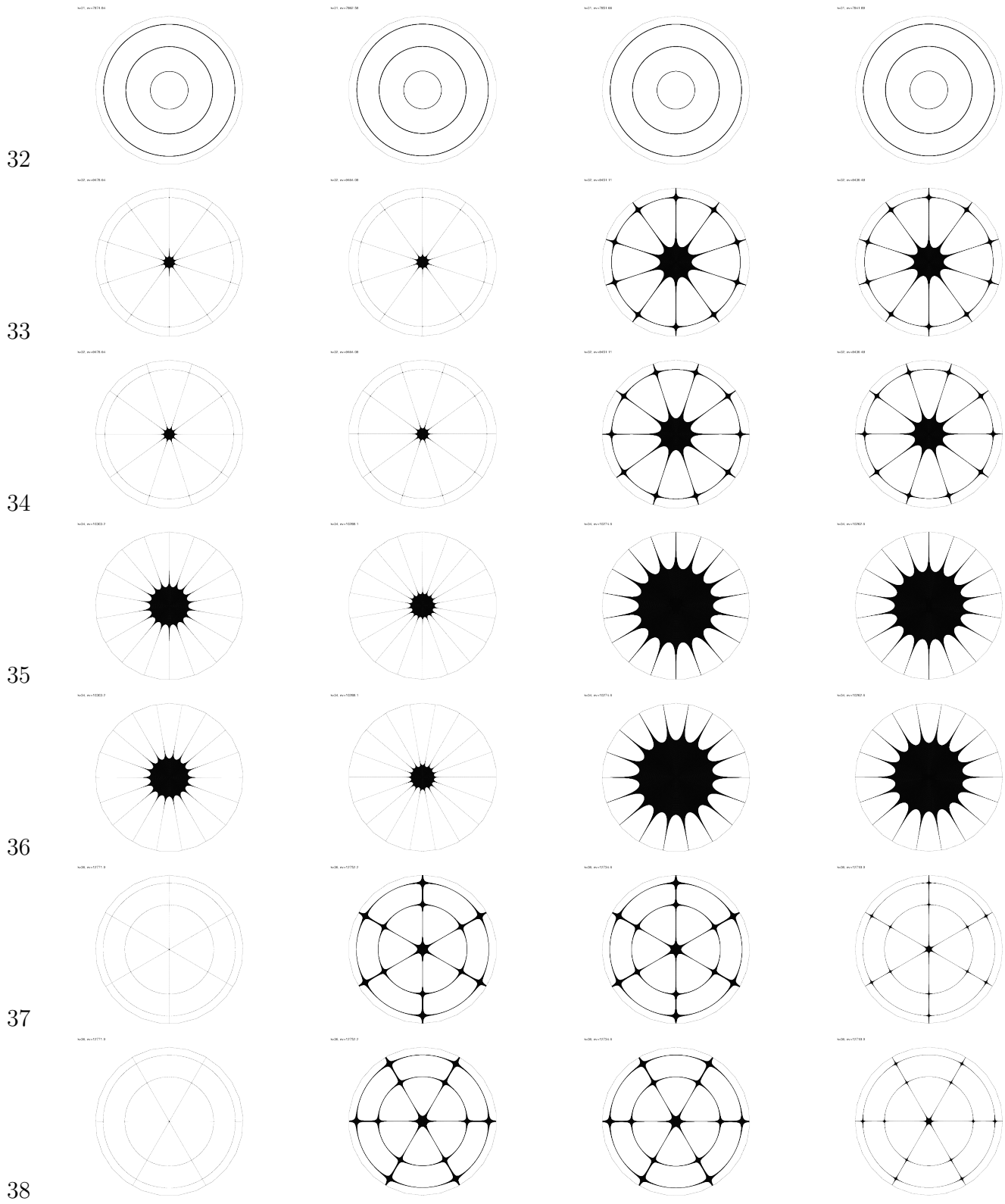
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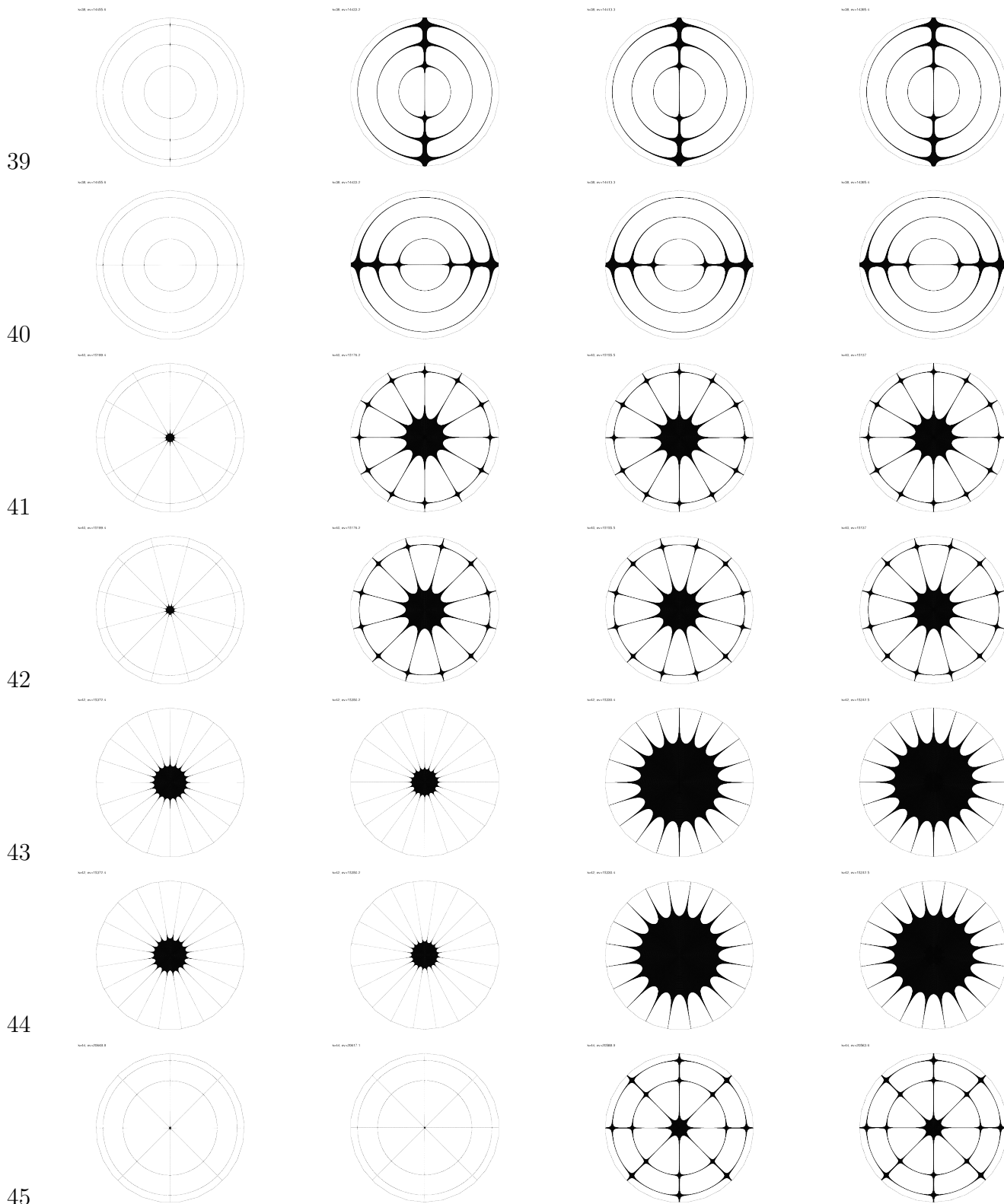
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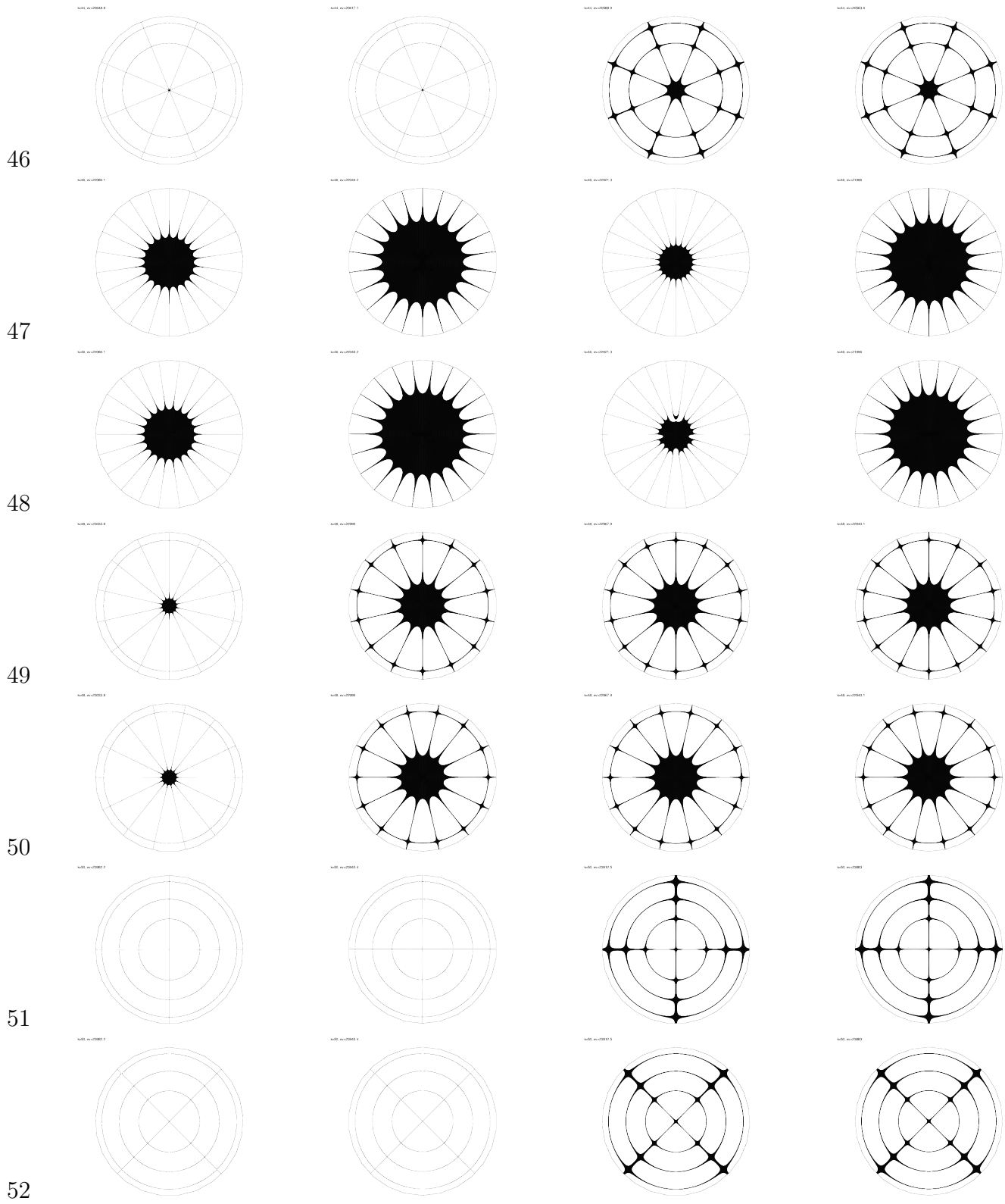
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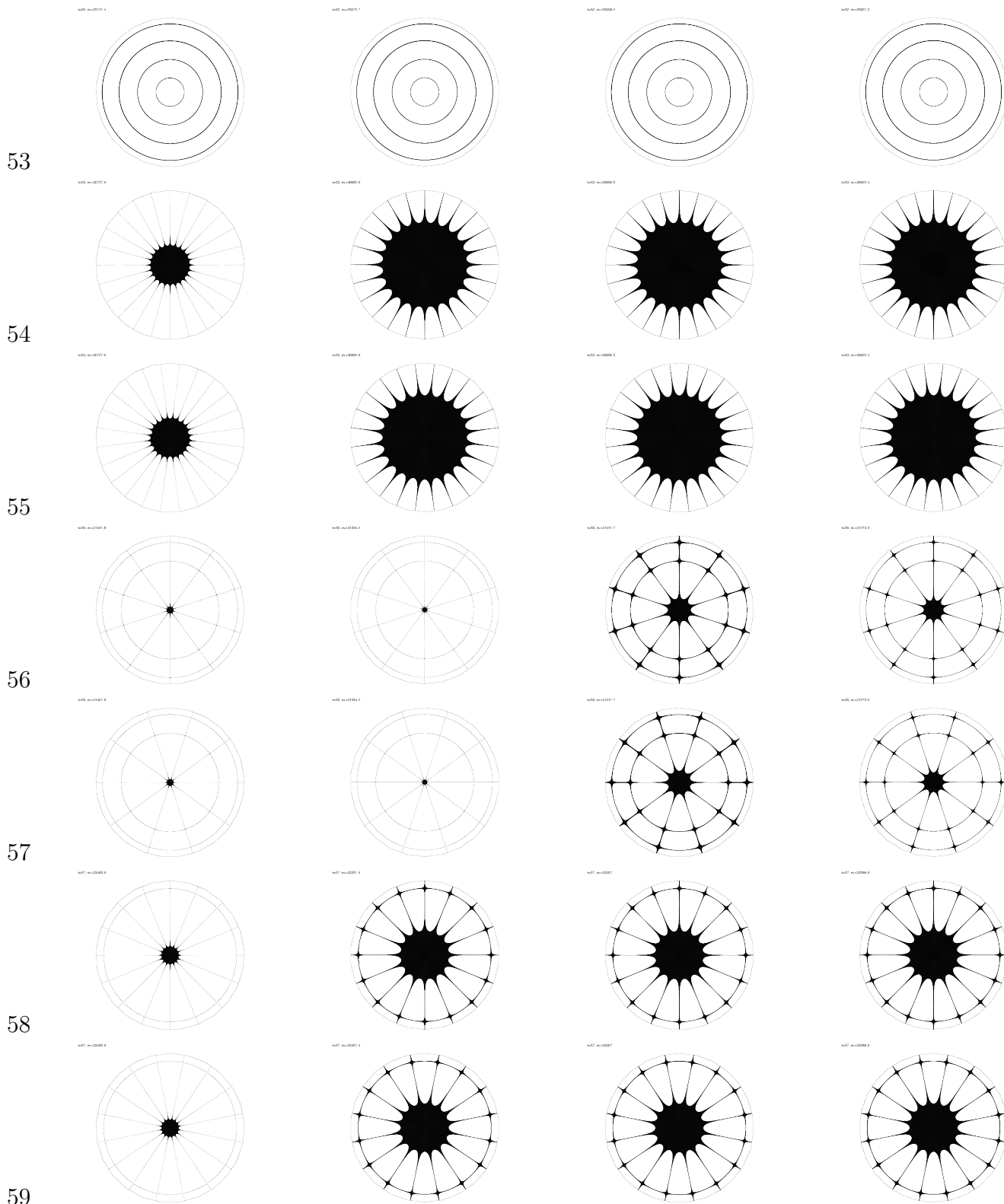
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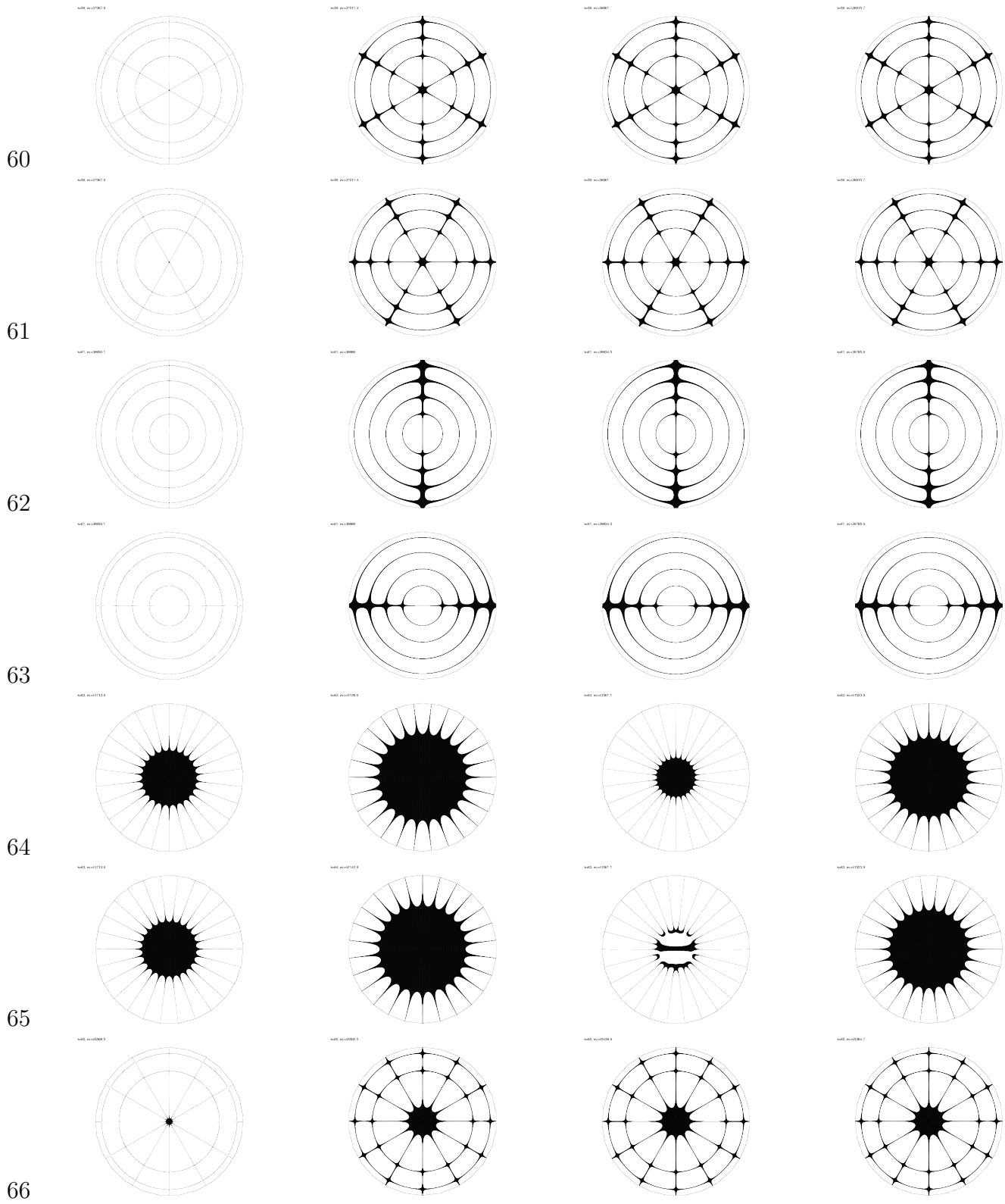
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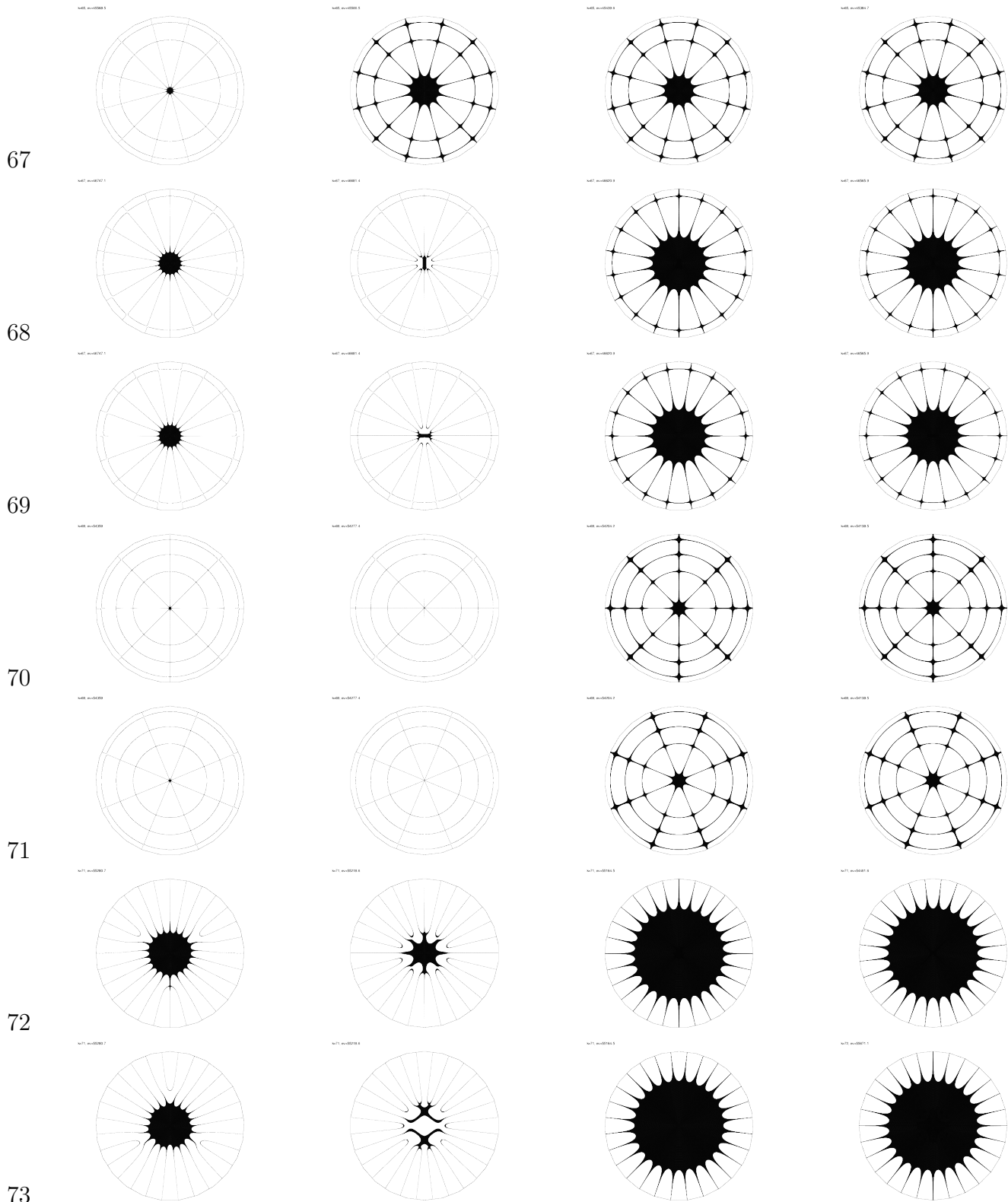
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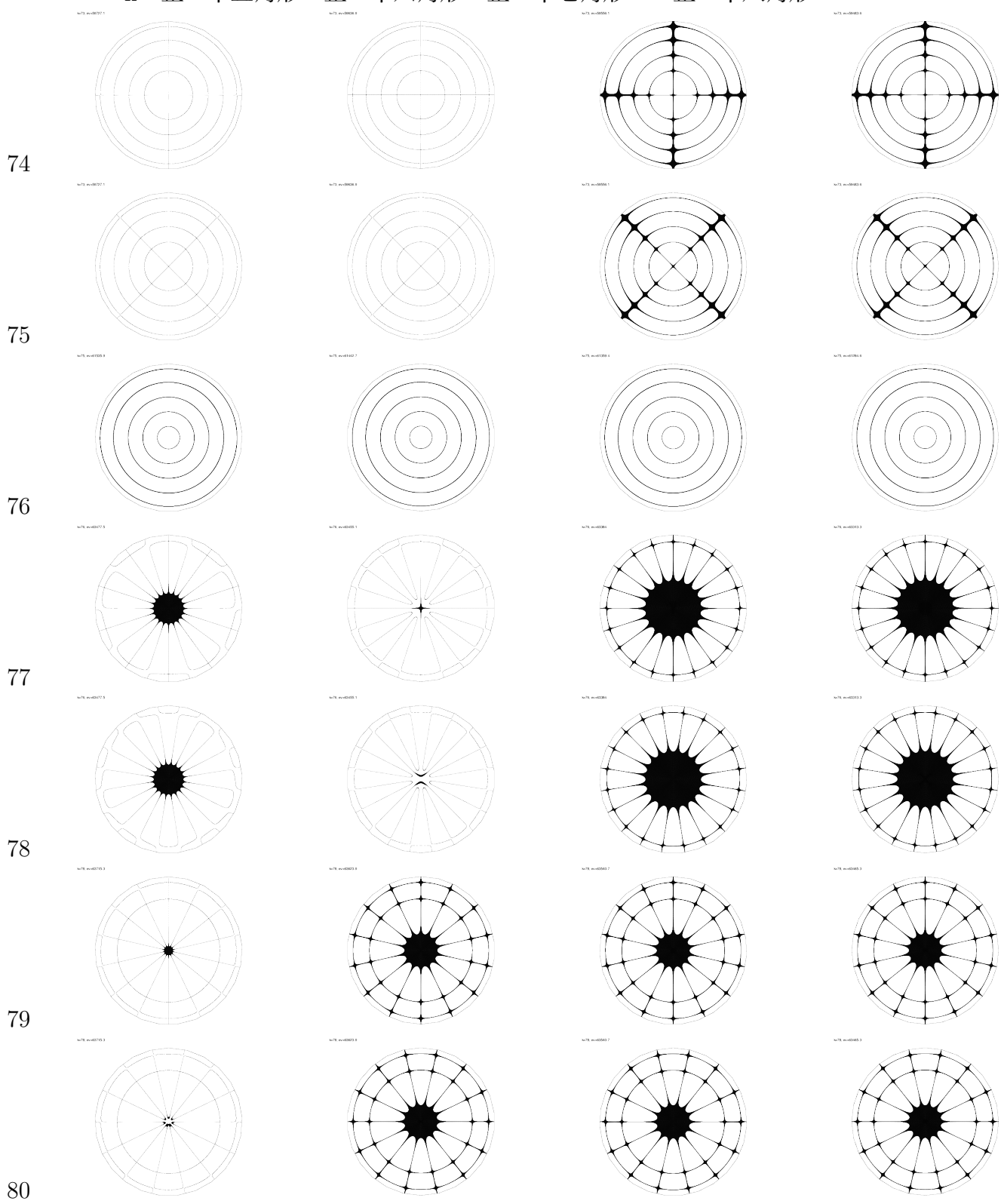
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k 正二十五角形 正二十六角形 正二十七角形 正二十八角形



k 正二十五角形 正二十六角形 正二十七角形 正二十八角形



k 正二十五角形 正二十六角形 正二十七角形 正二十八角形

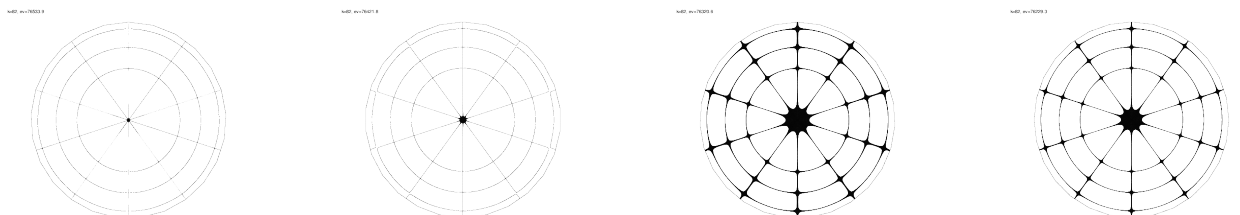
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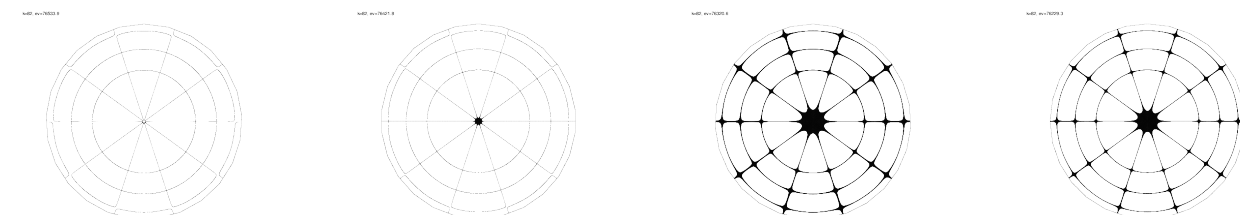
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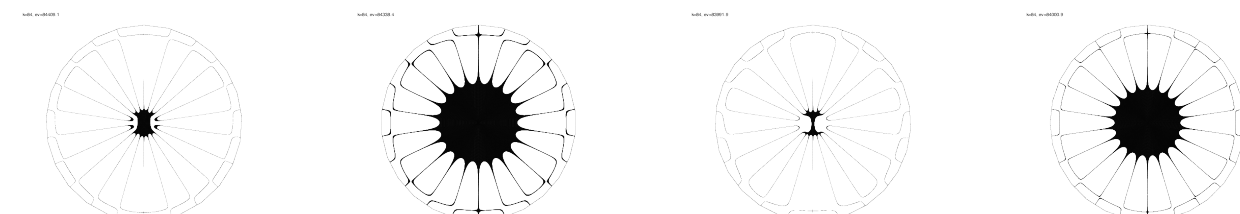
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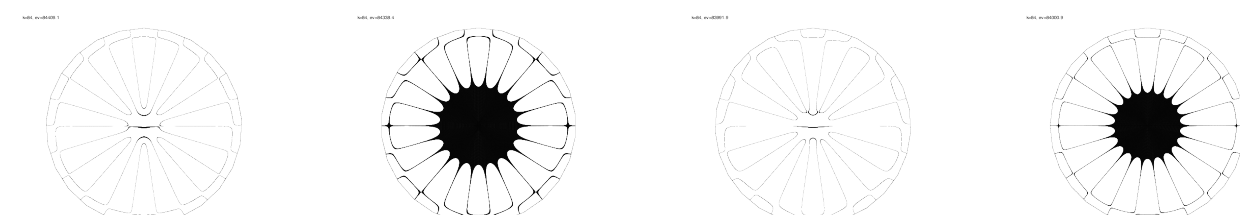
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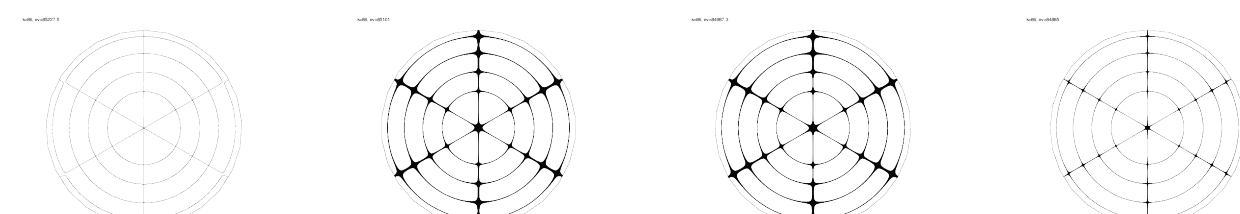
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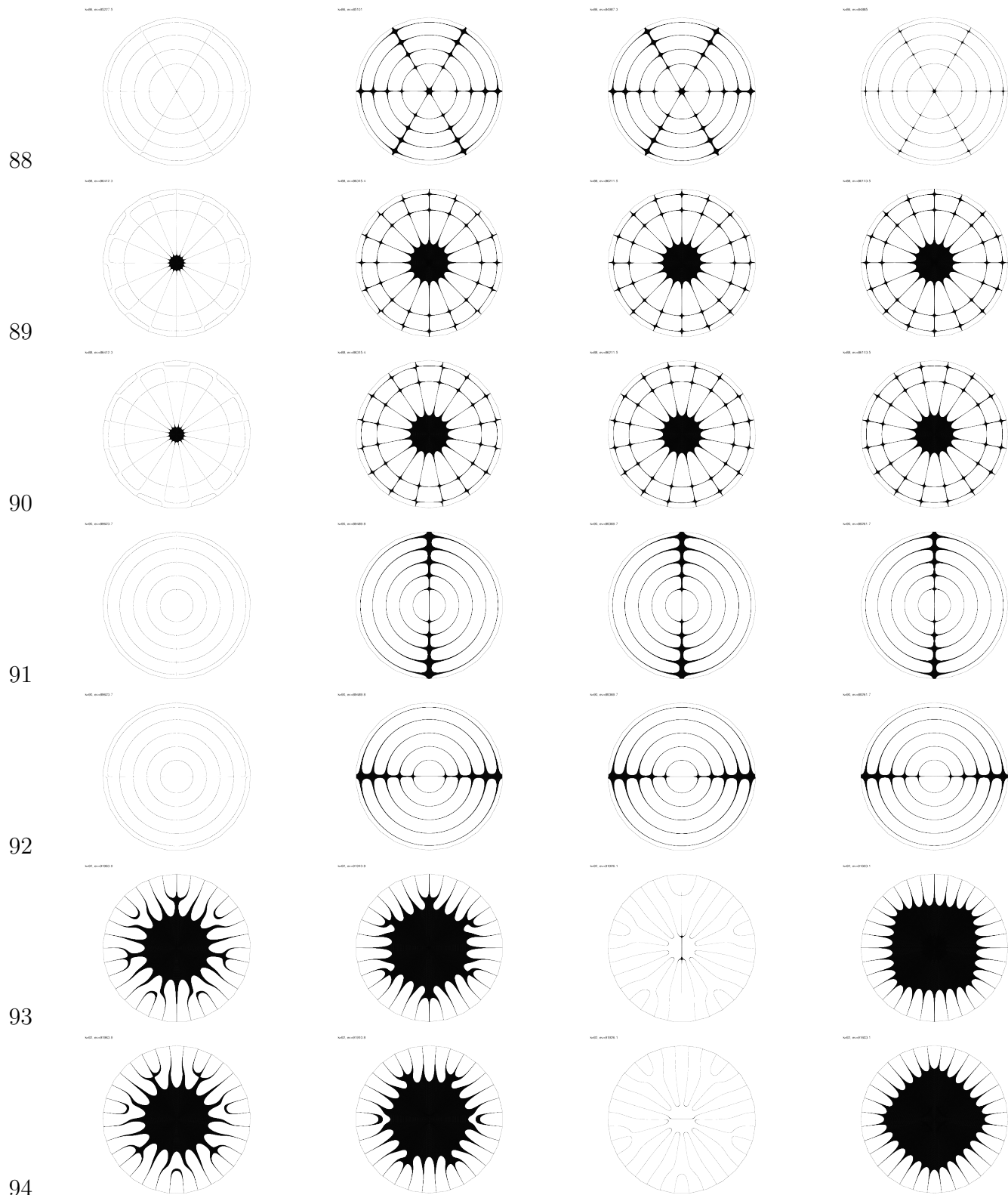
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87

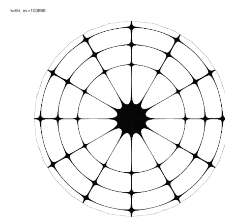
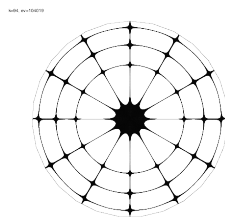
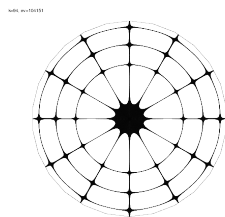
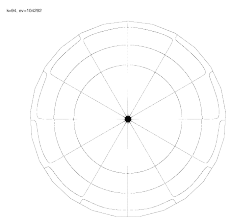


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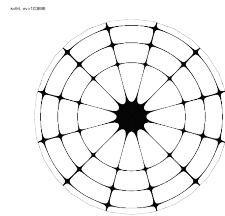
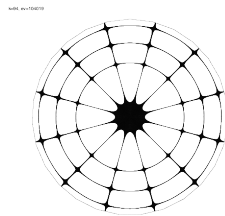
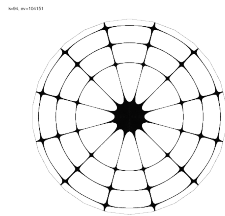
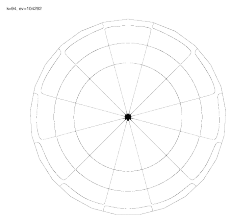


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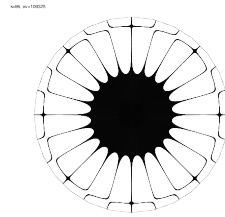
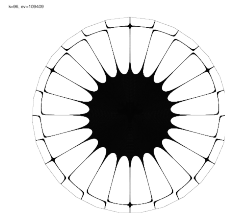
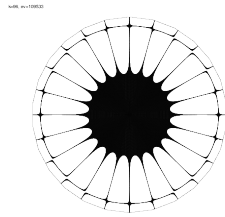
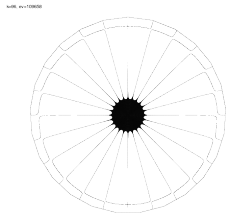
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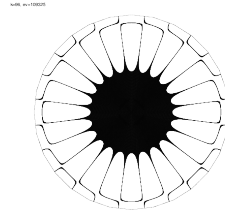
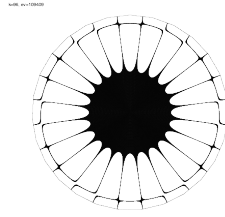
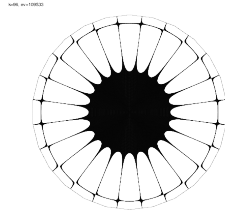
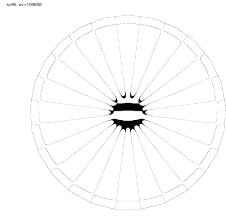
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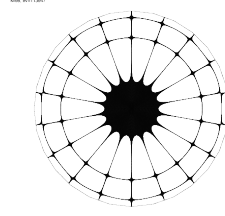
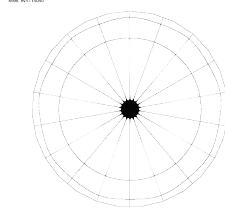
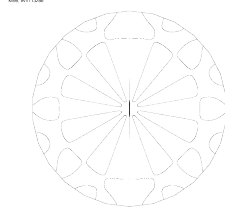
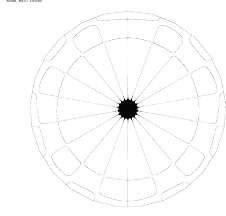
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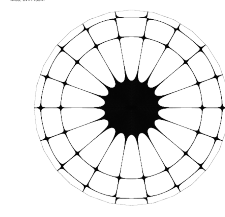
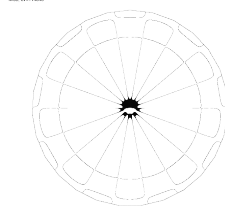
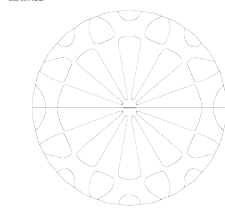
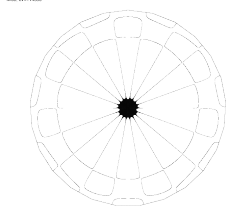
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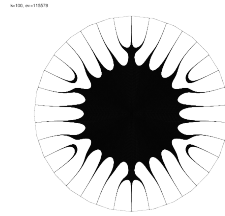
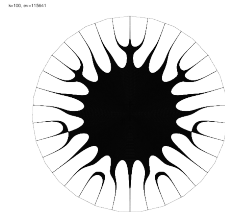
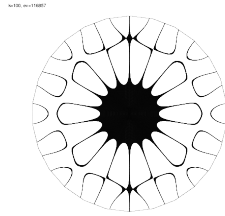
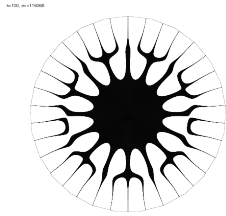
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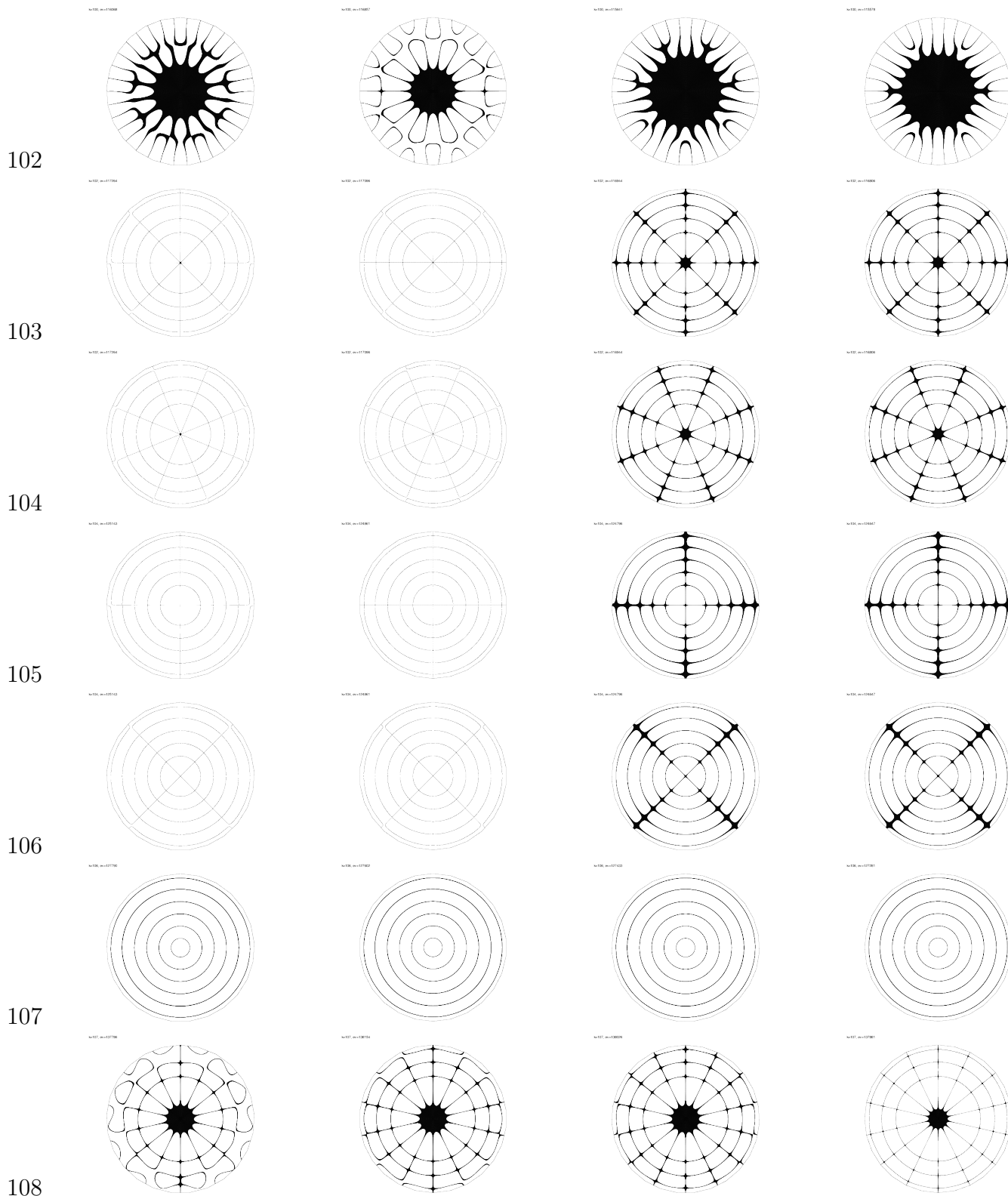
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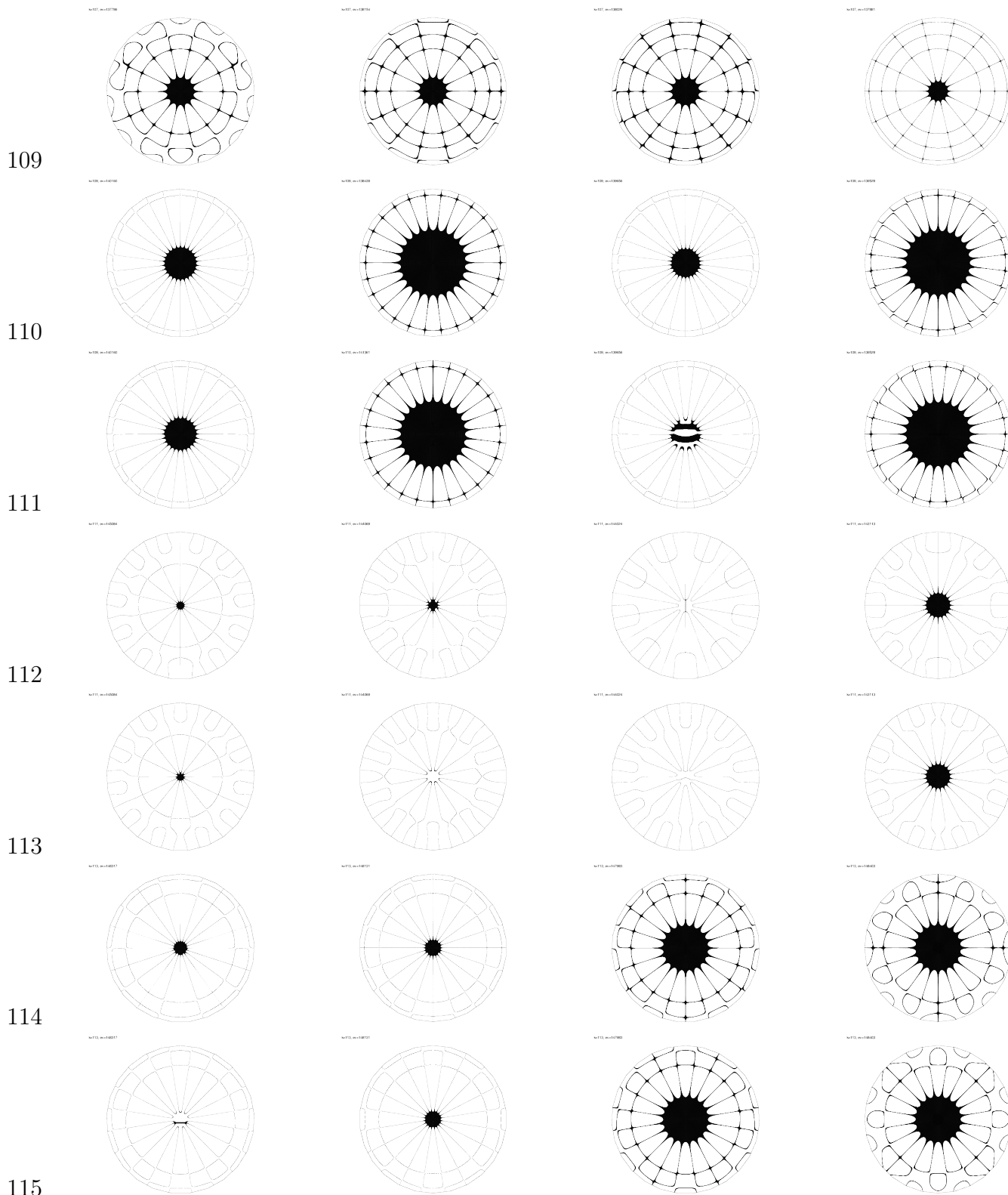
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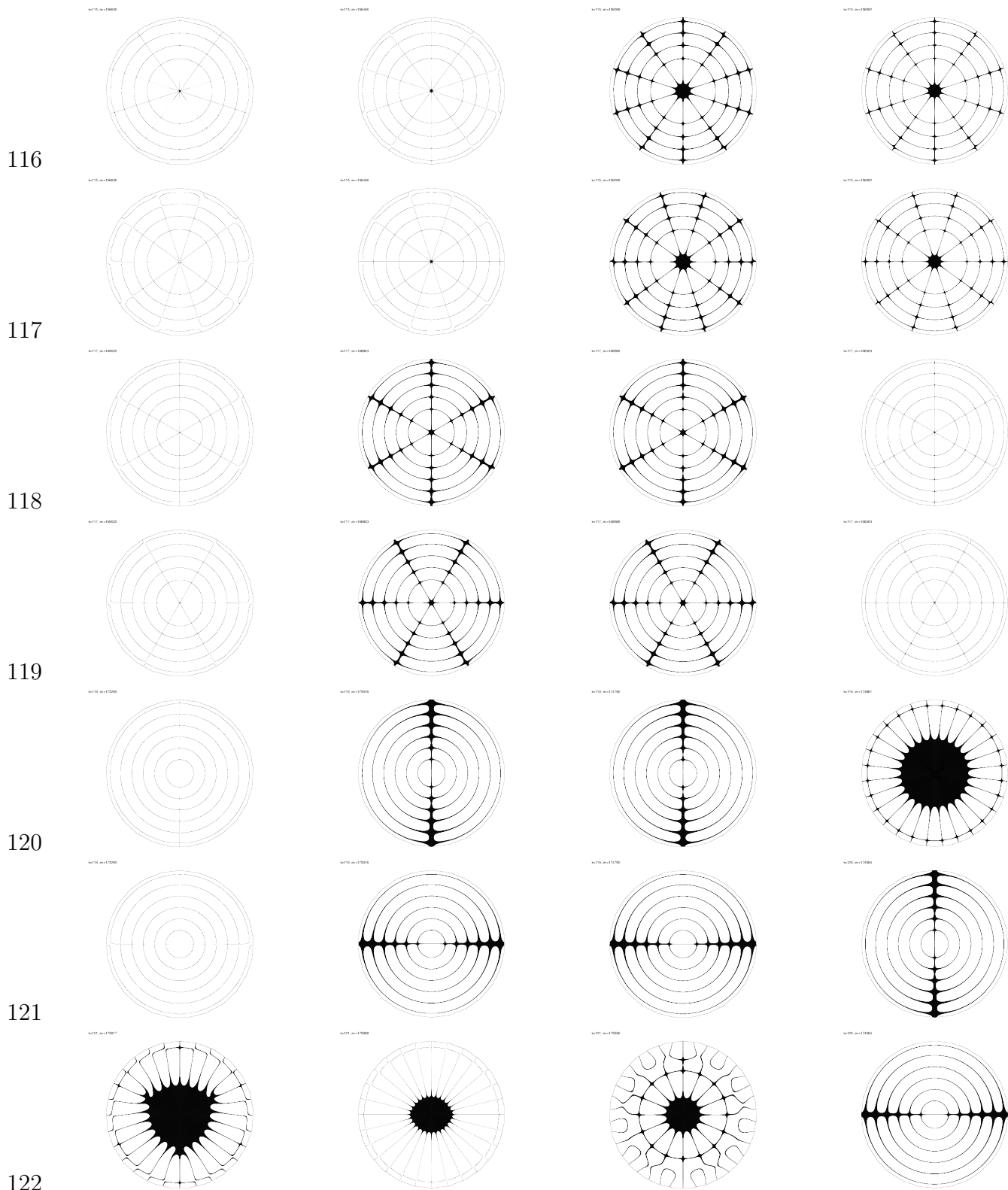
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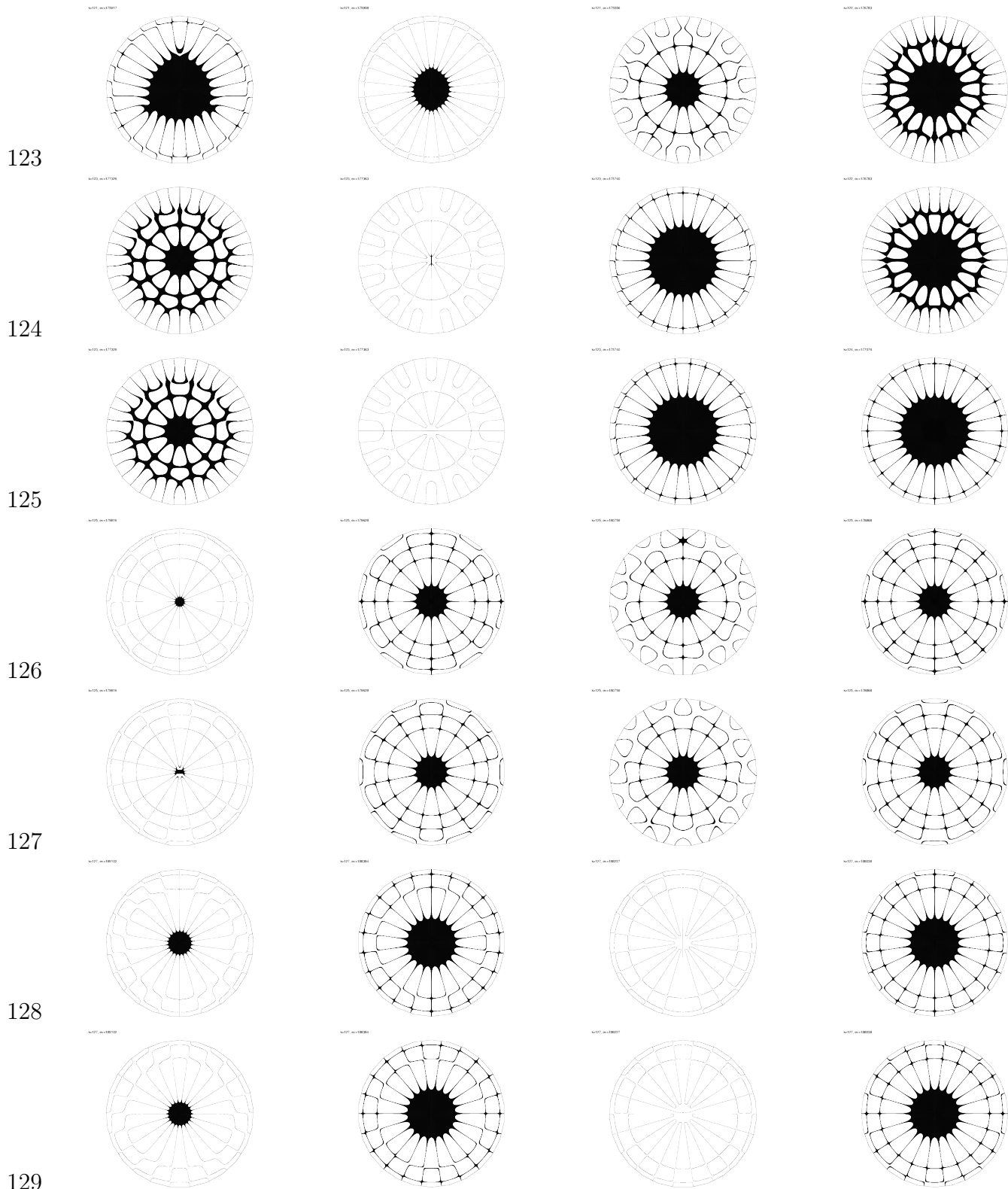
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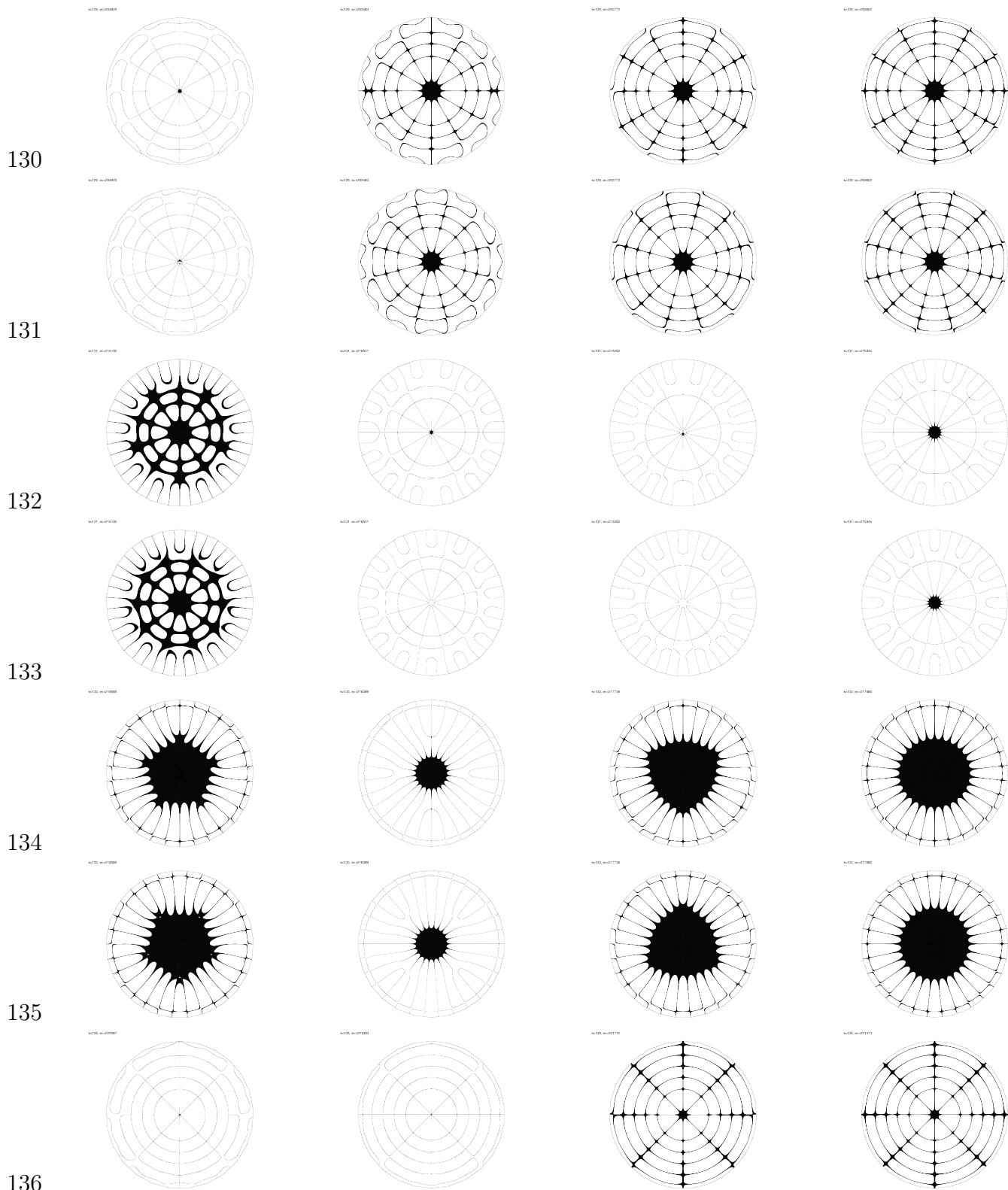
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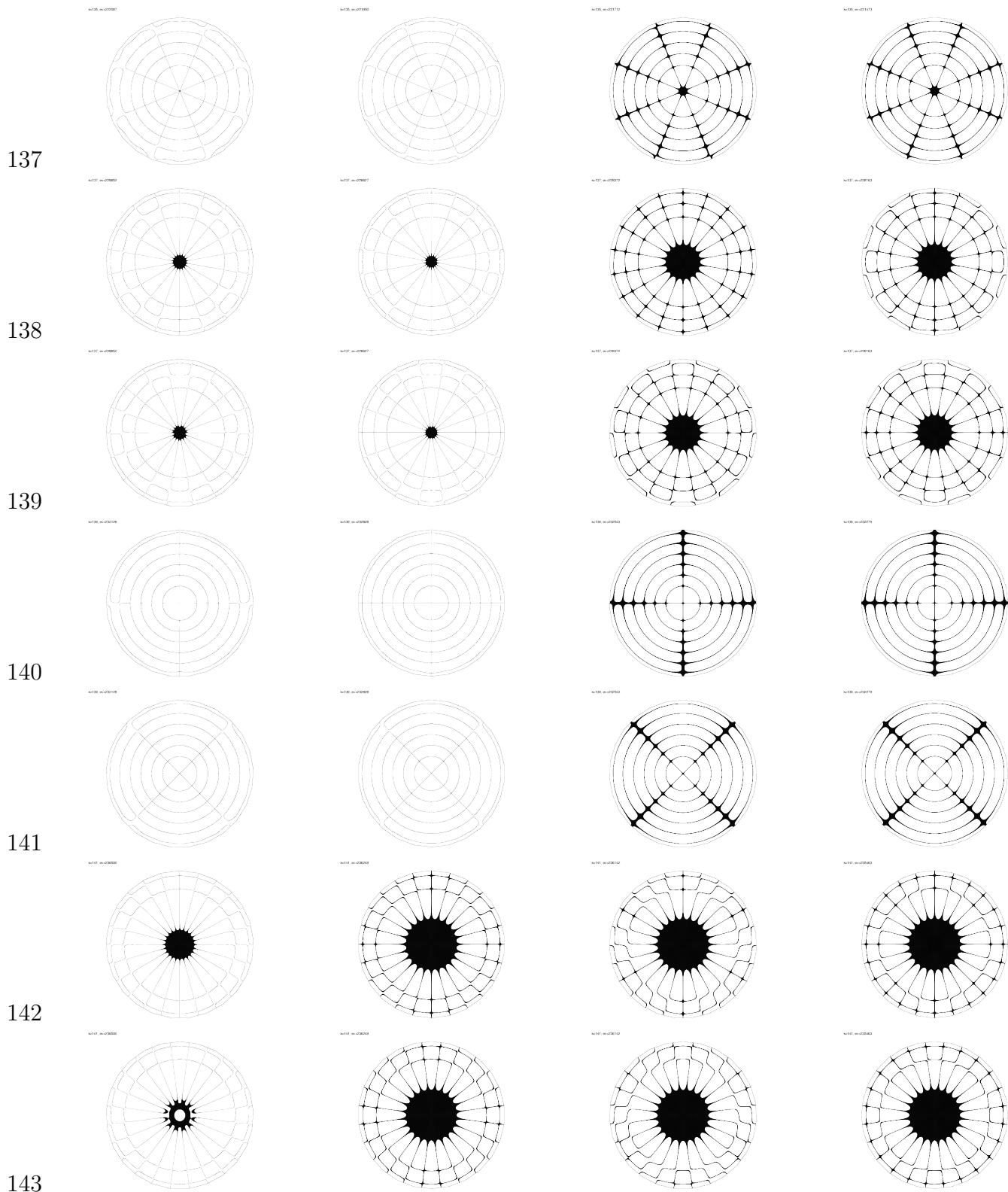
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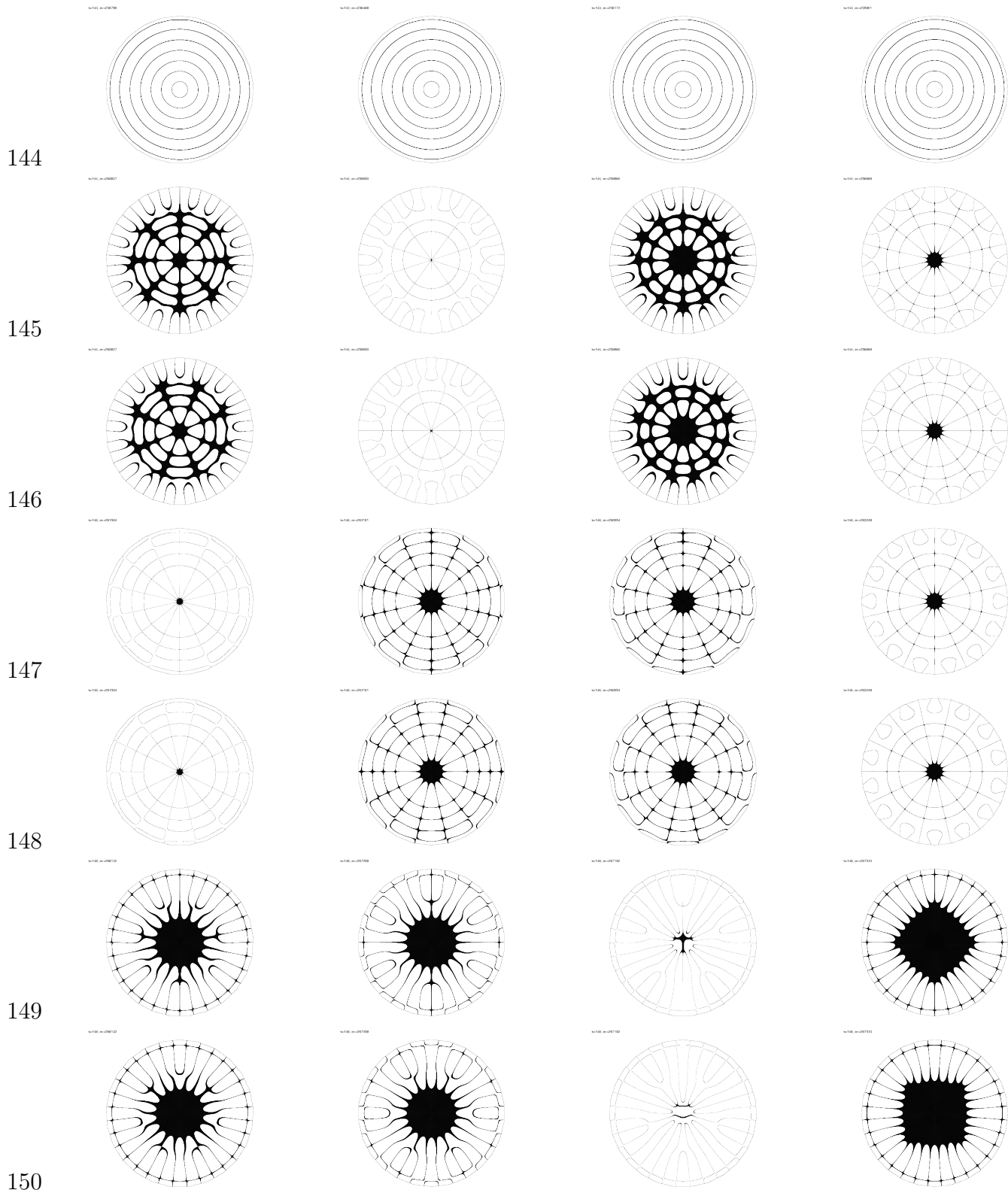
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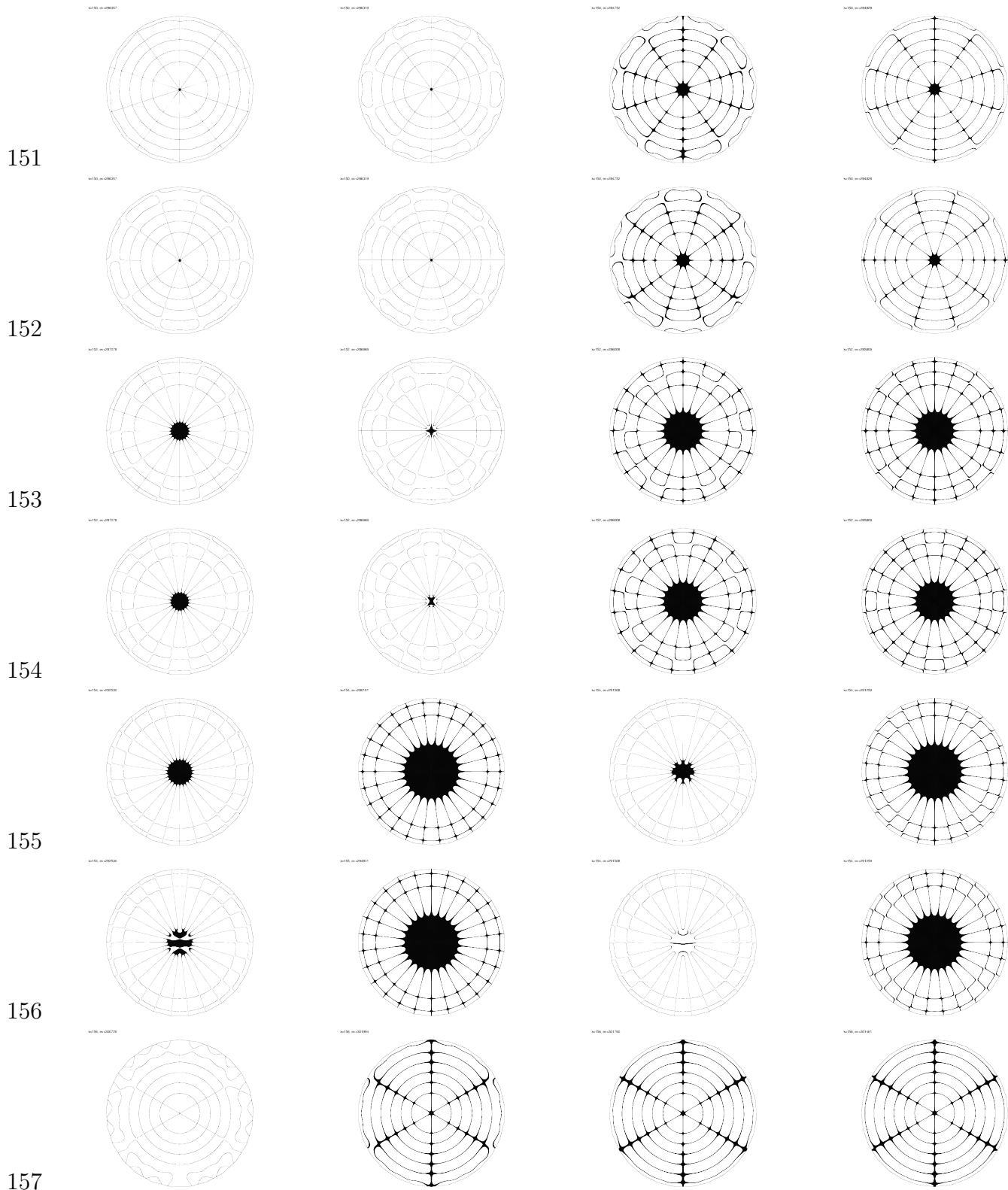
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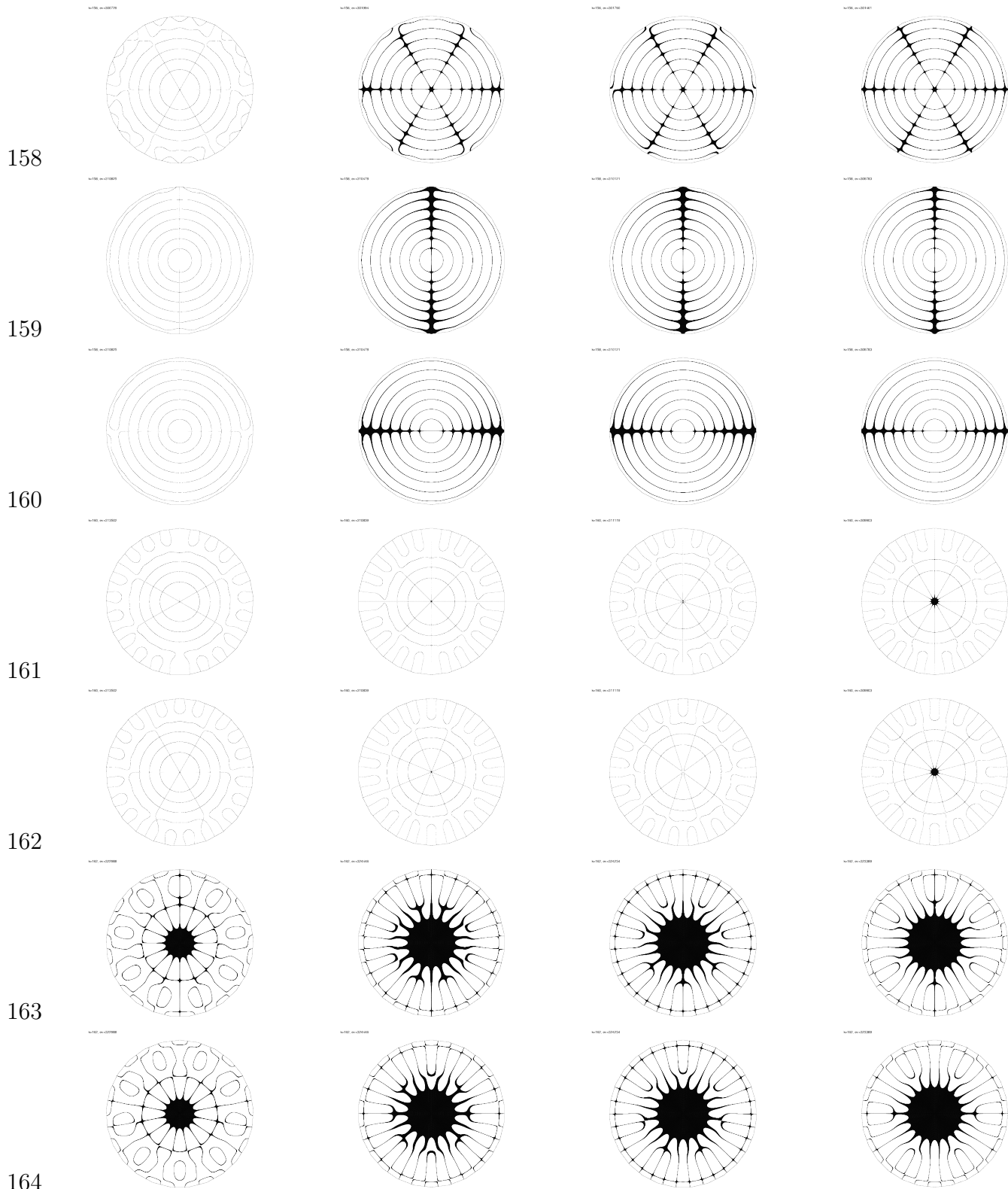
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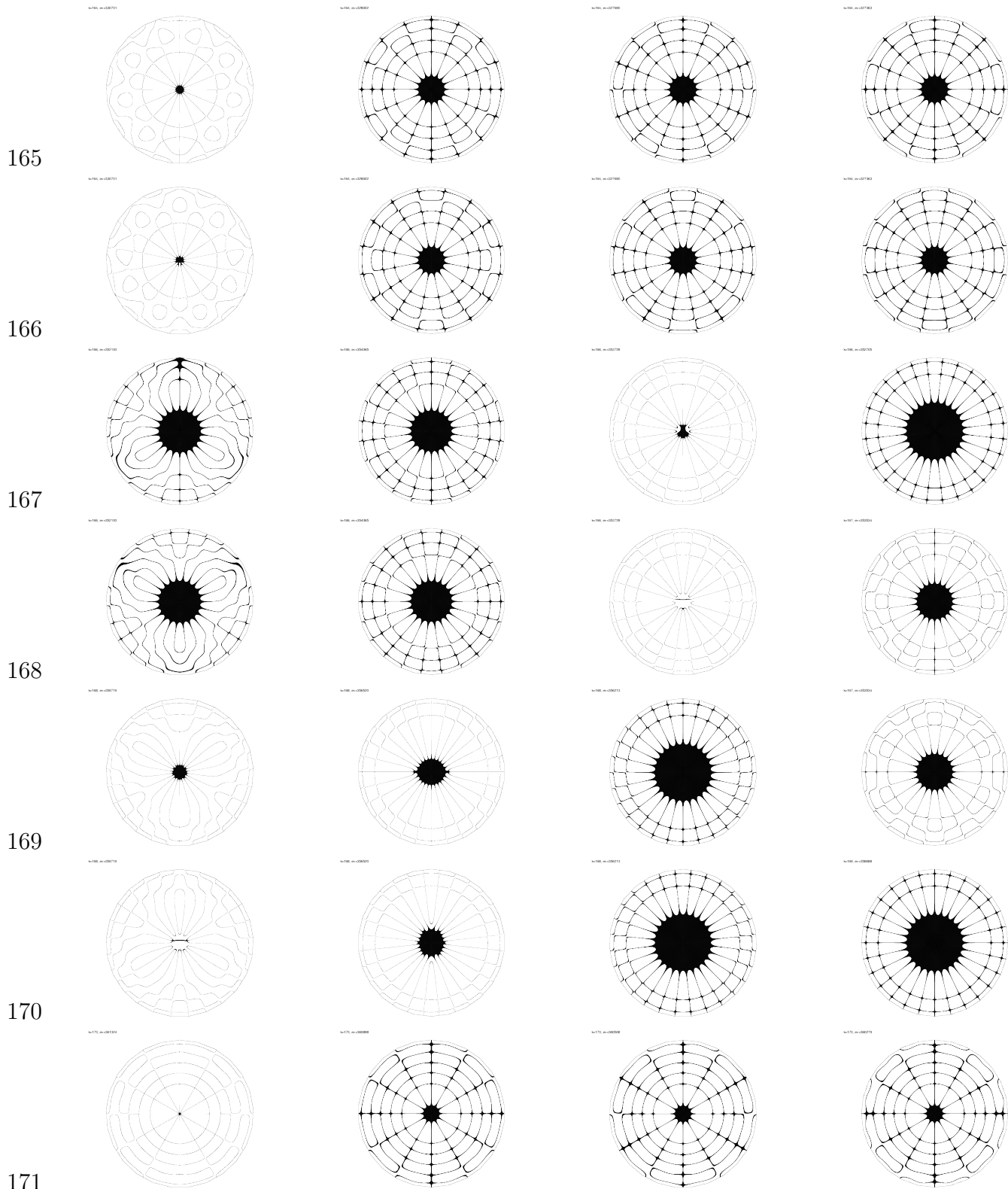
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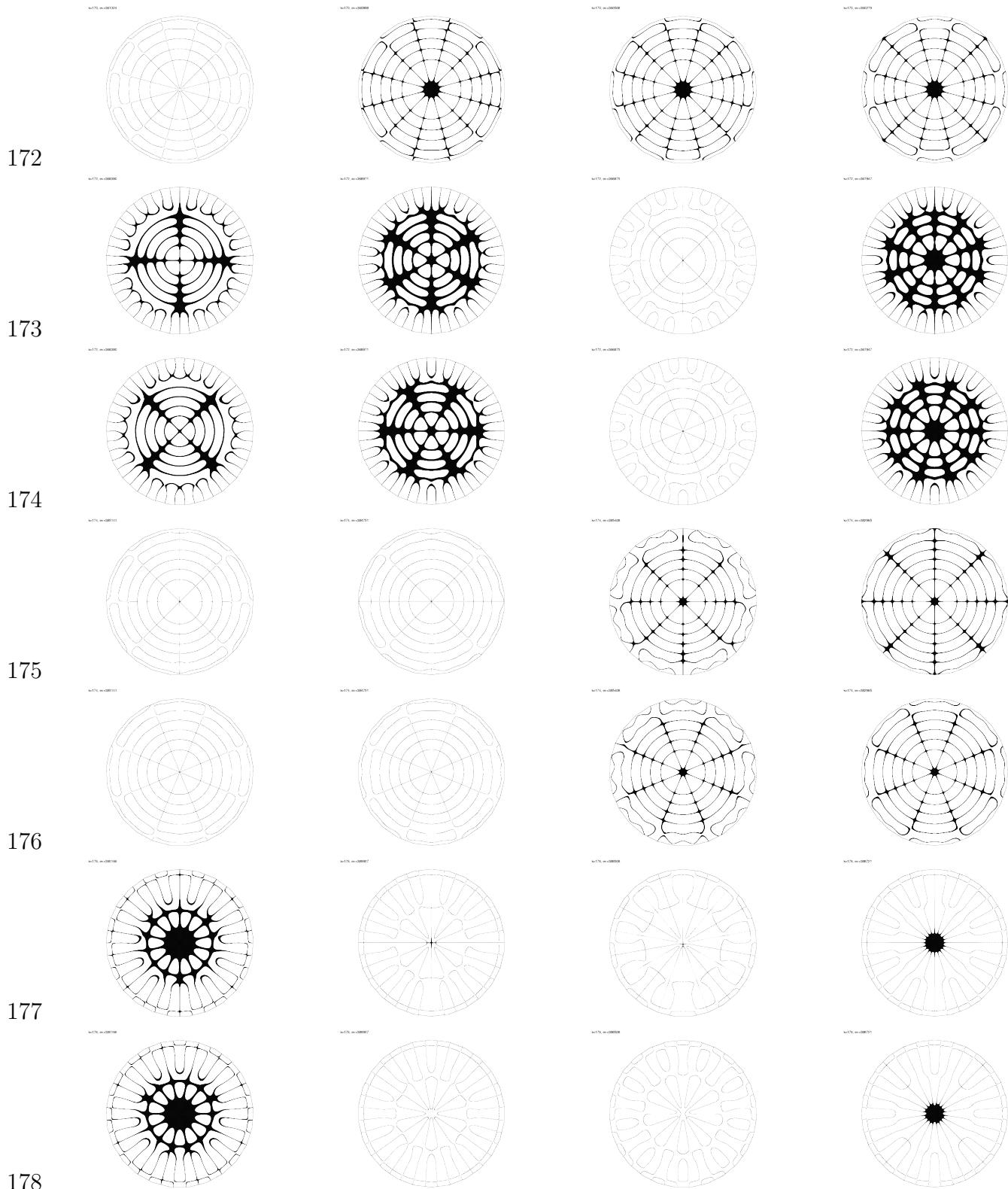
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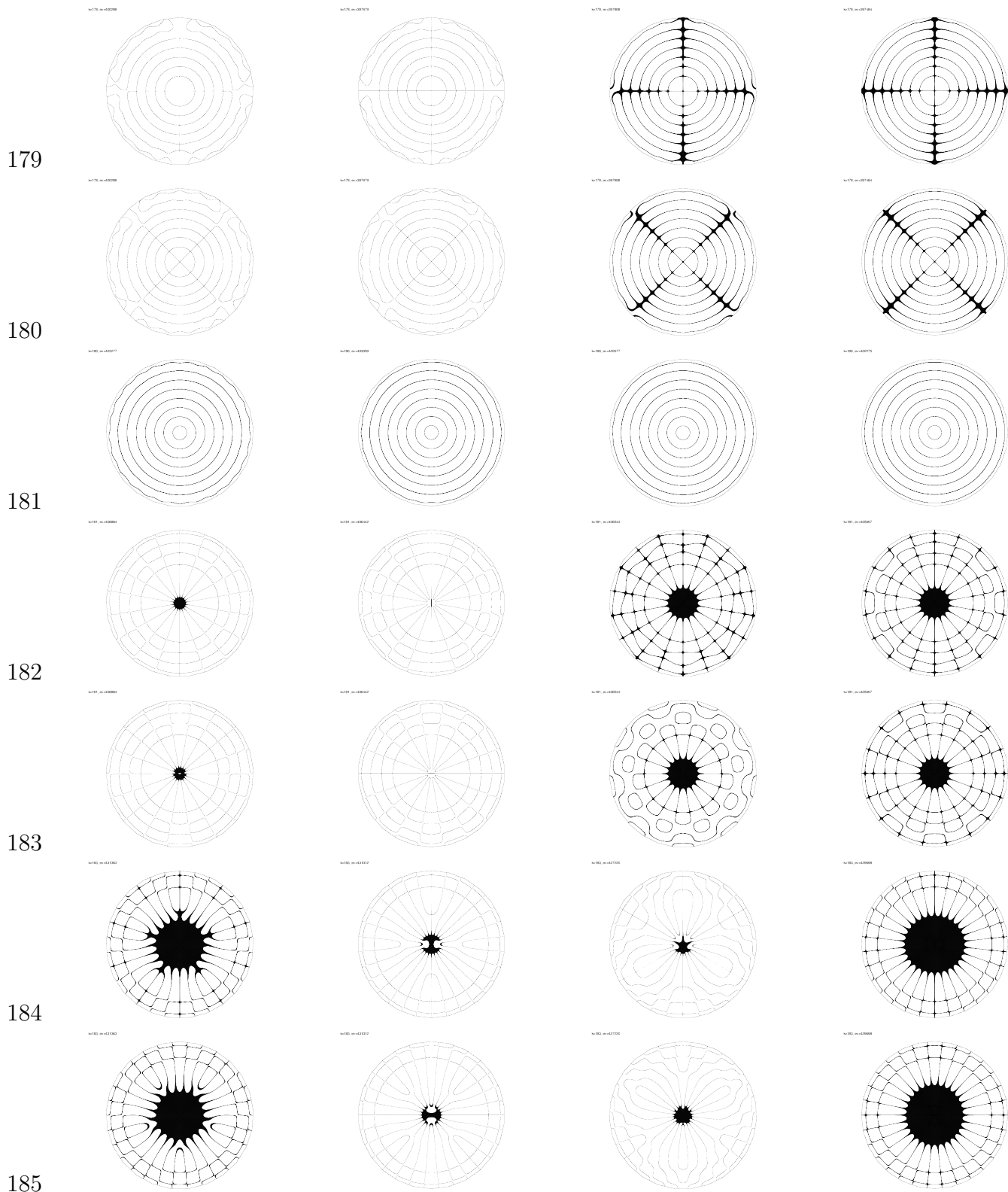
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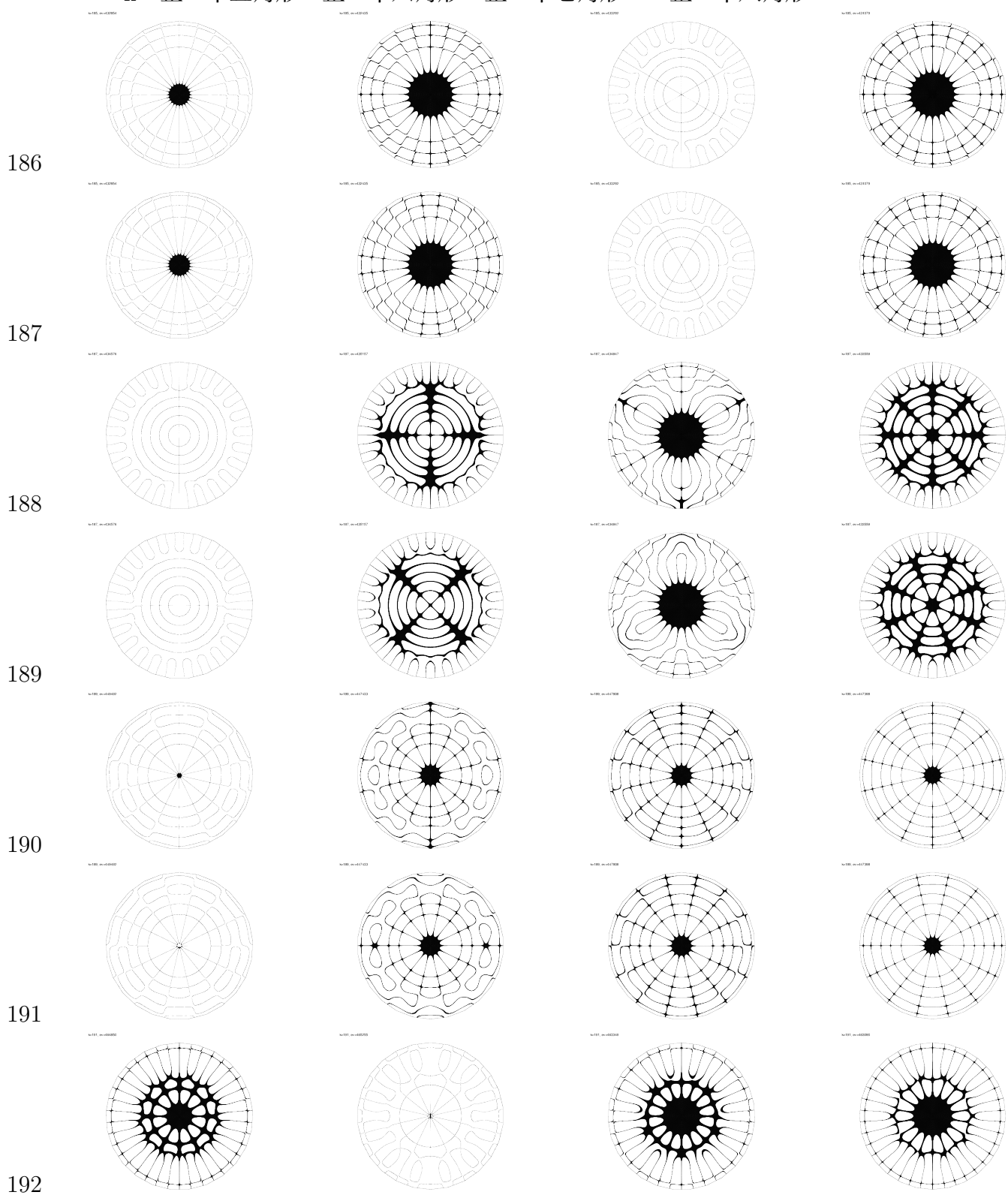
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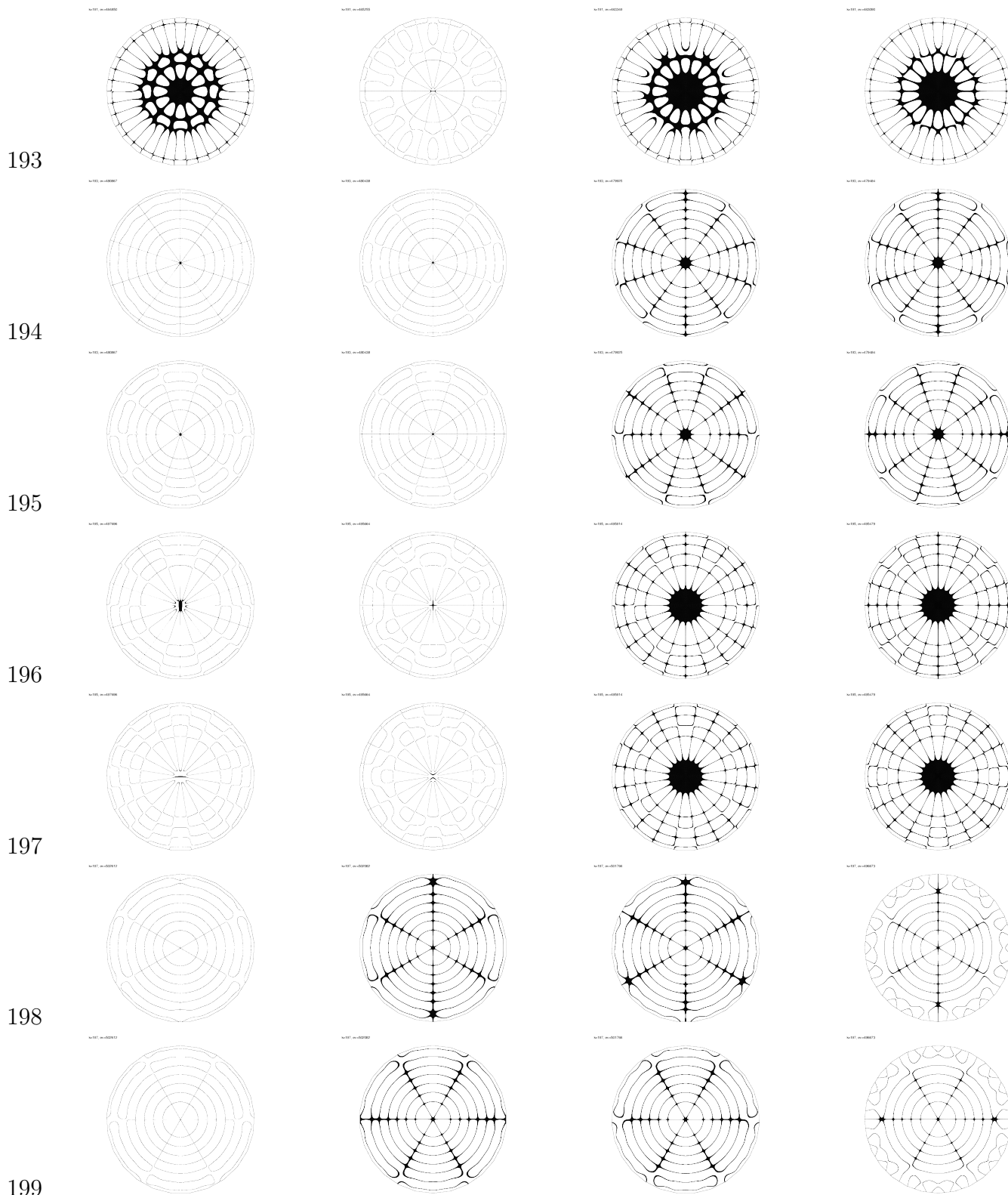
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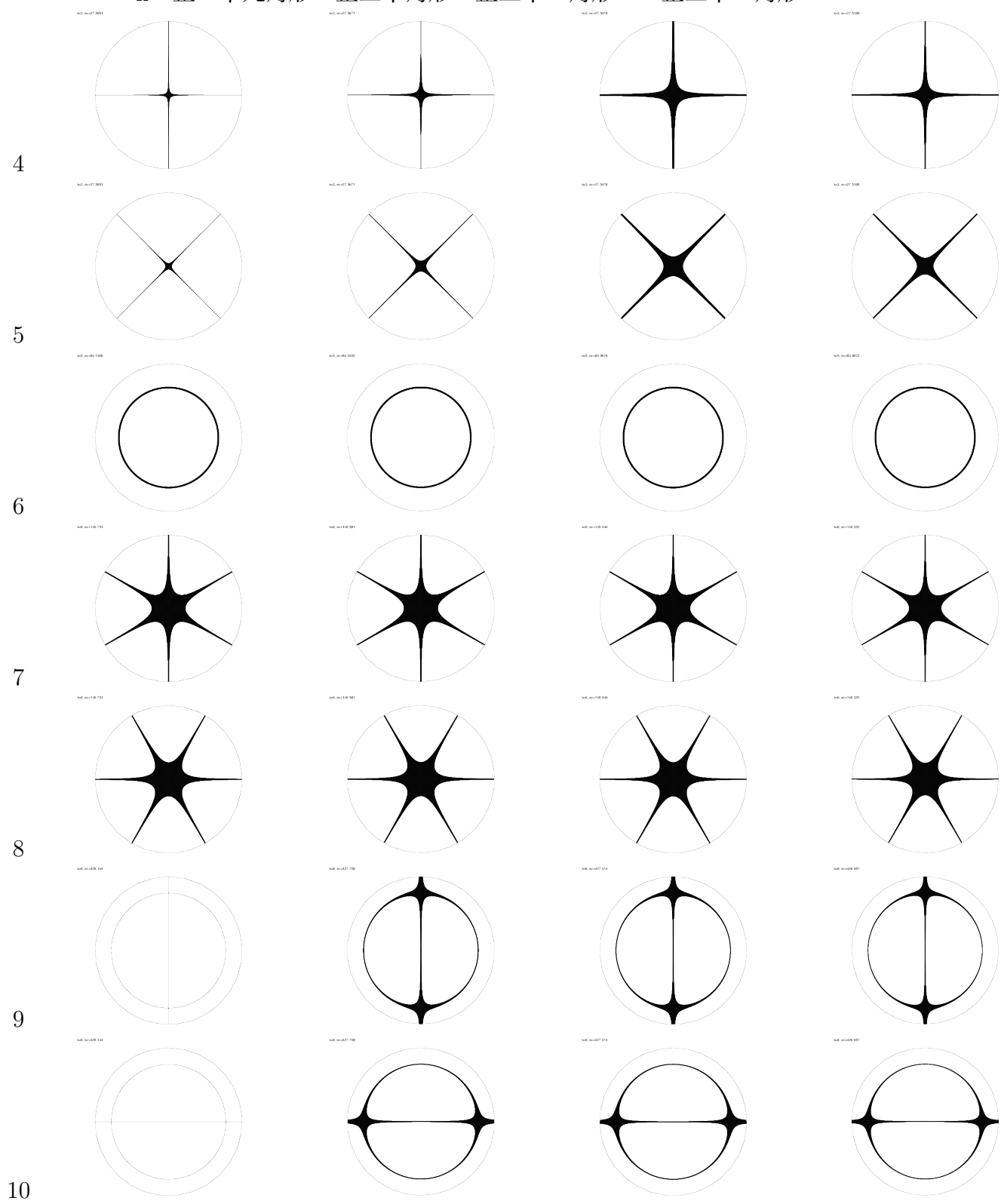
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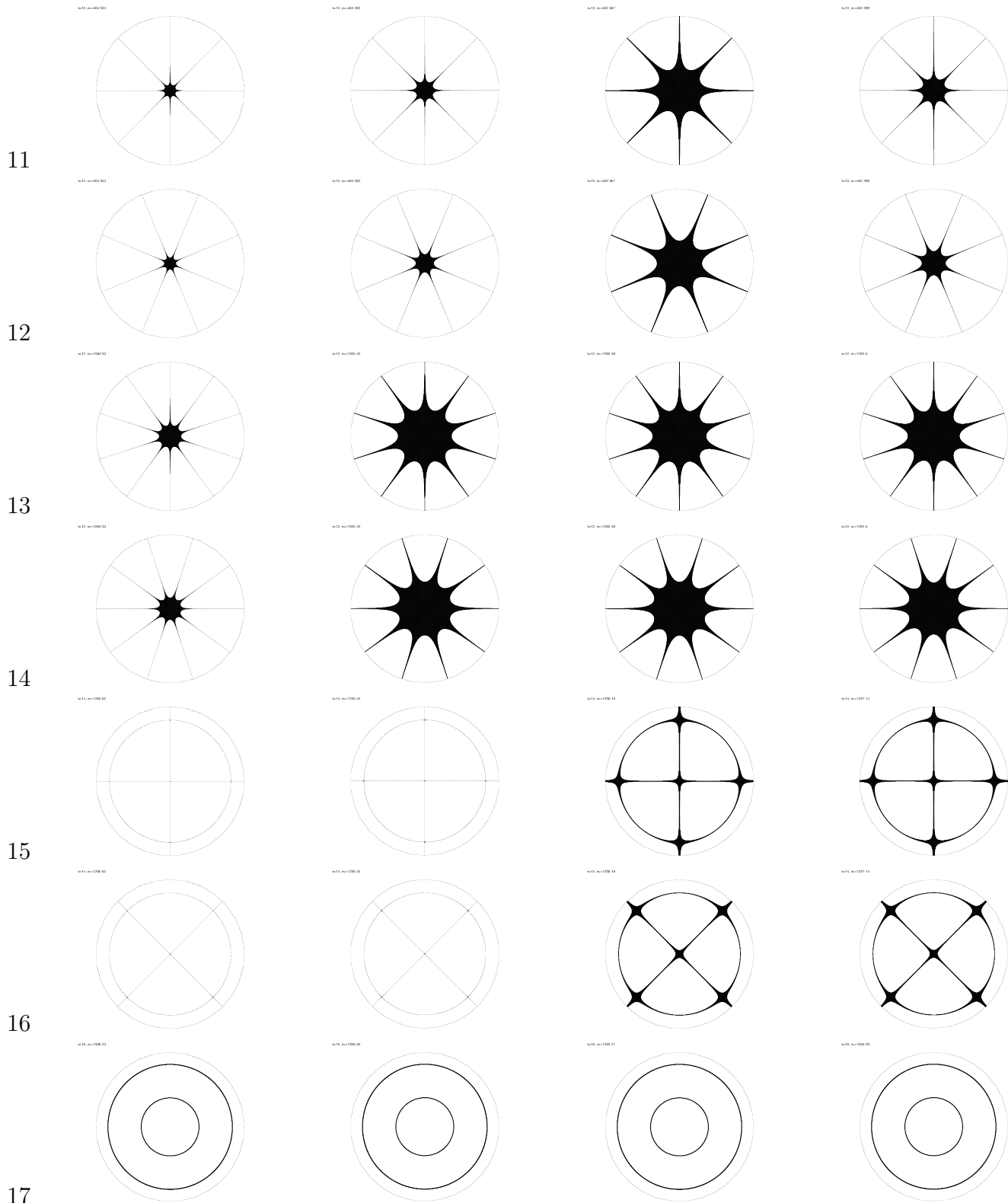
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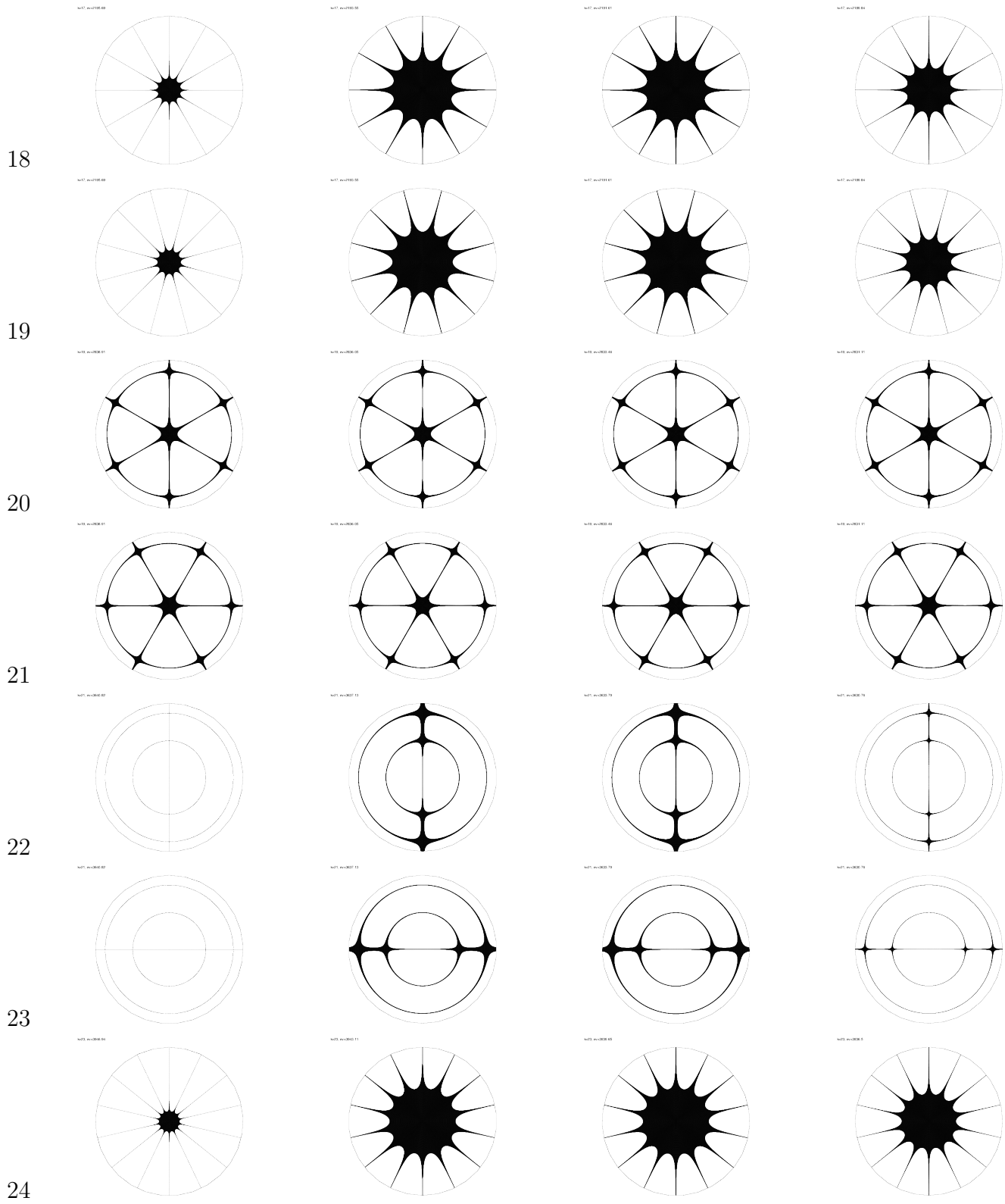
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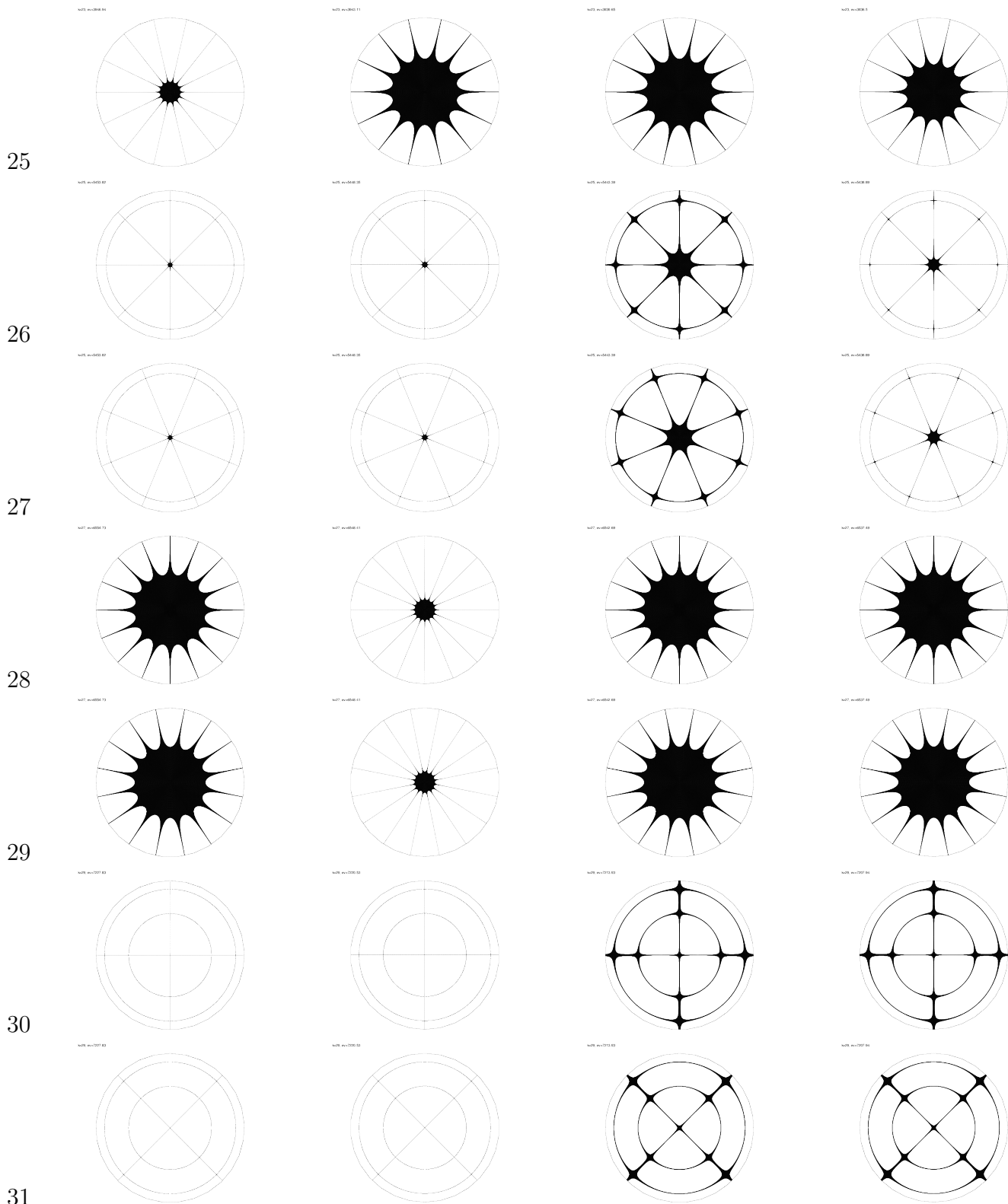
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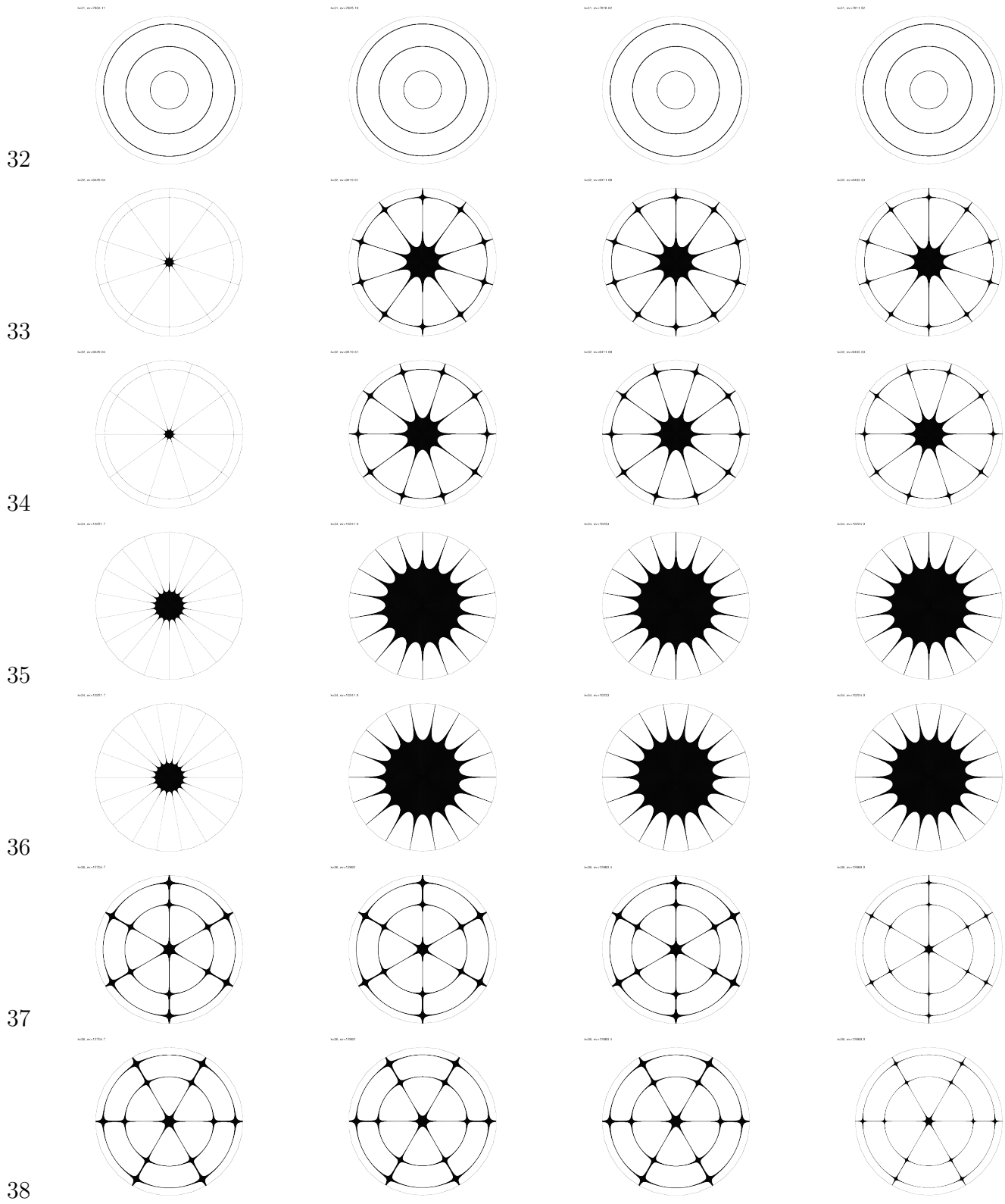
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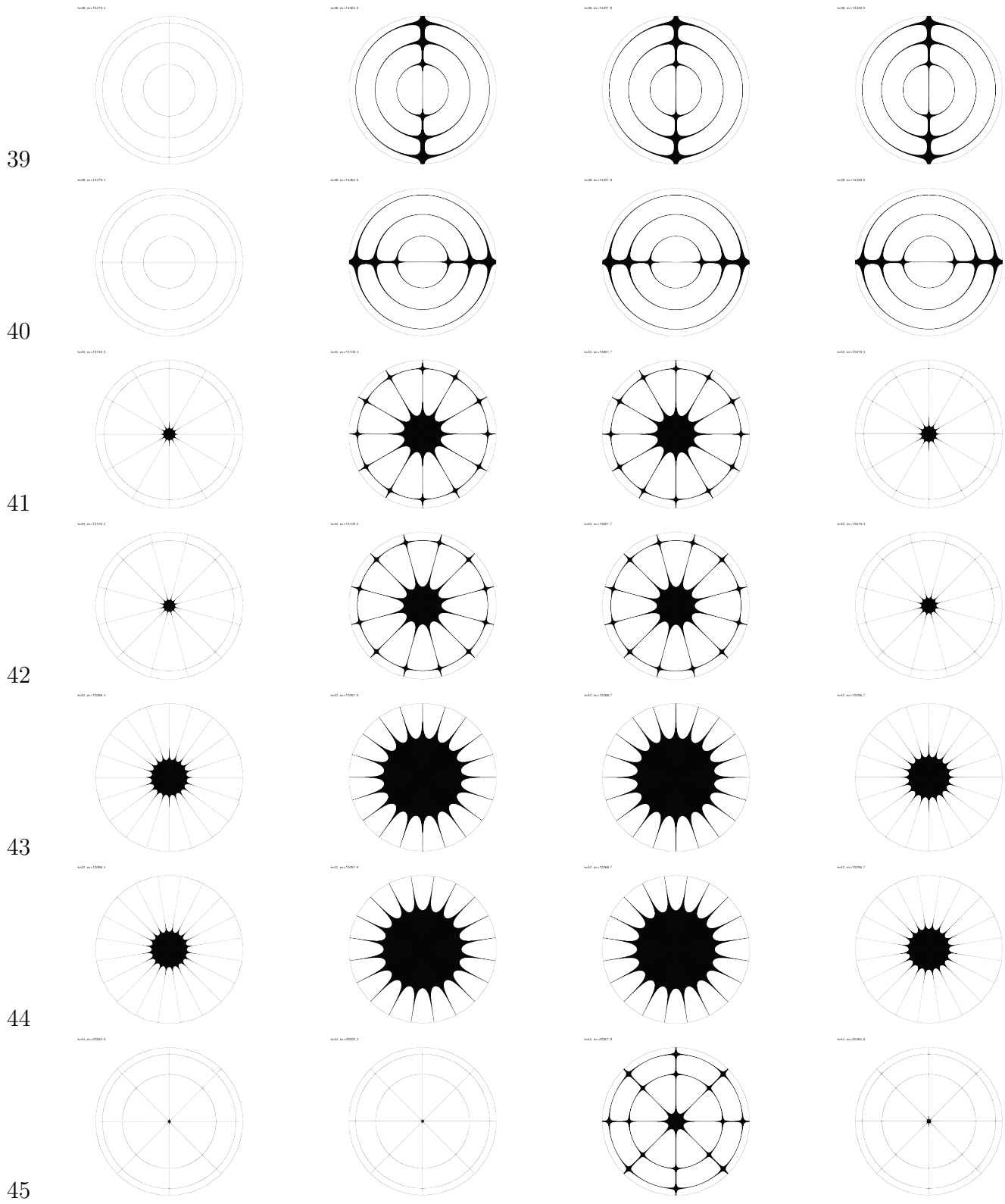
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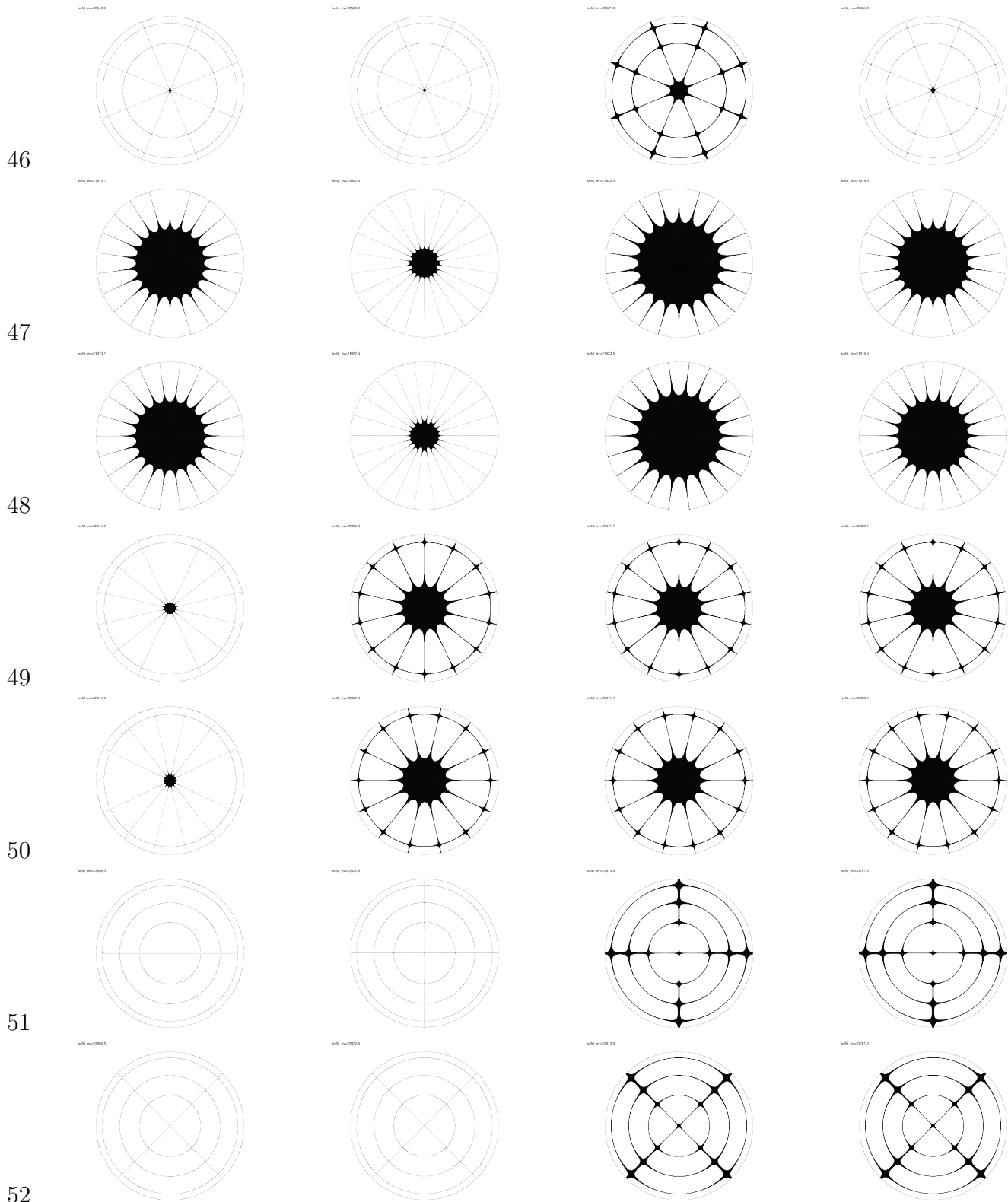
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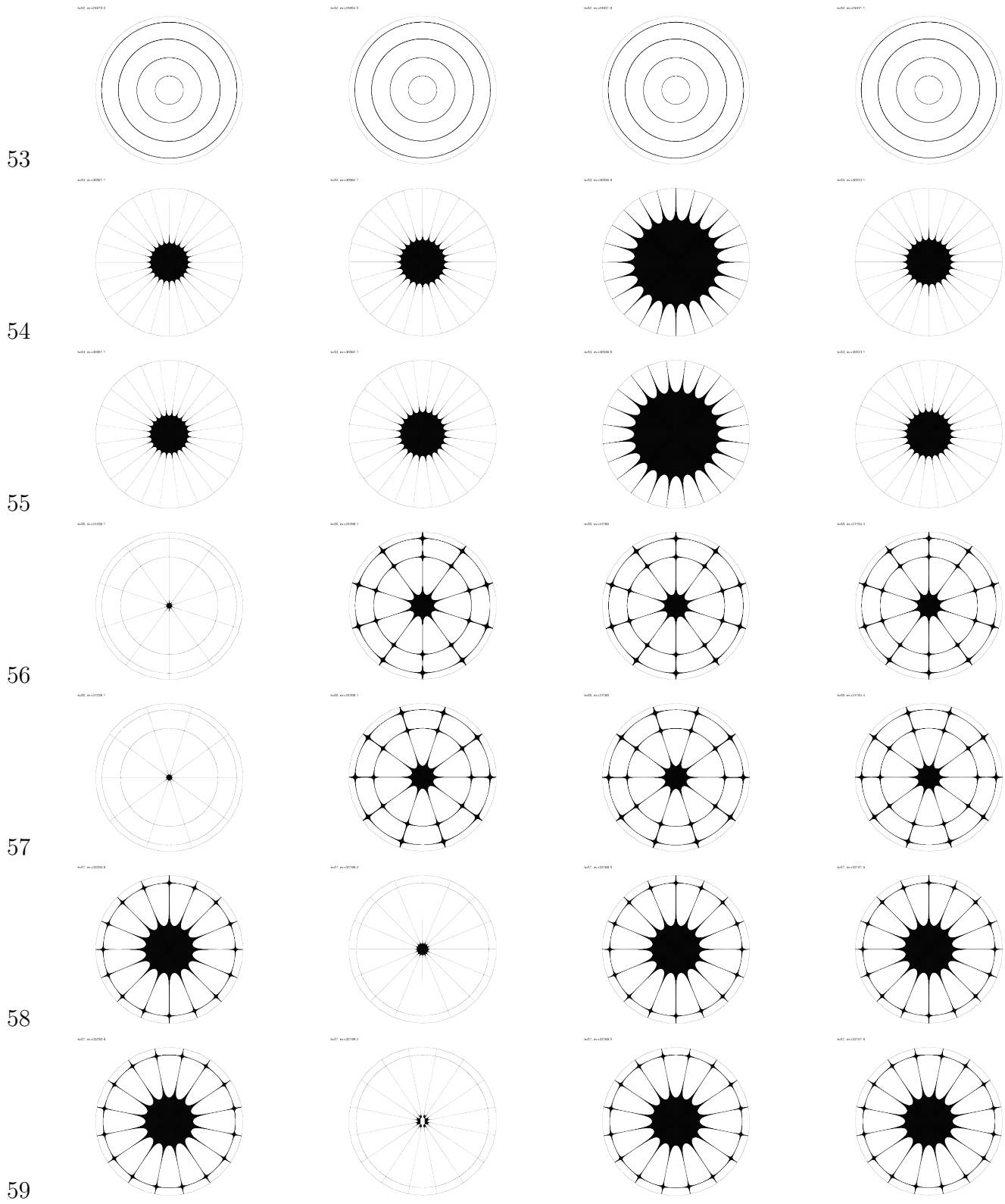
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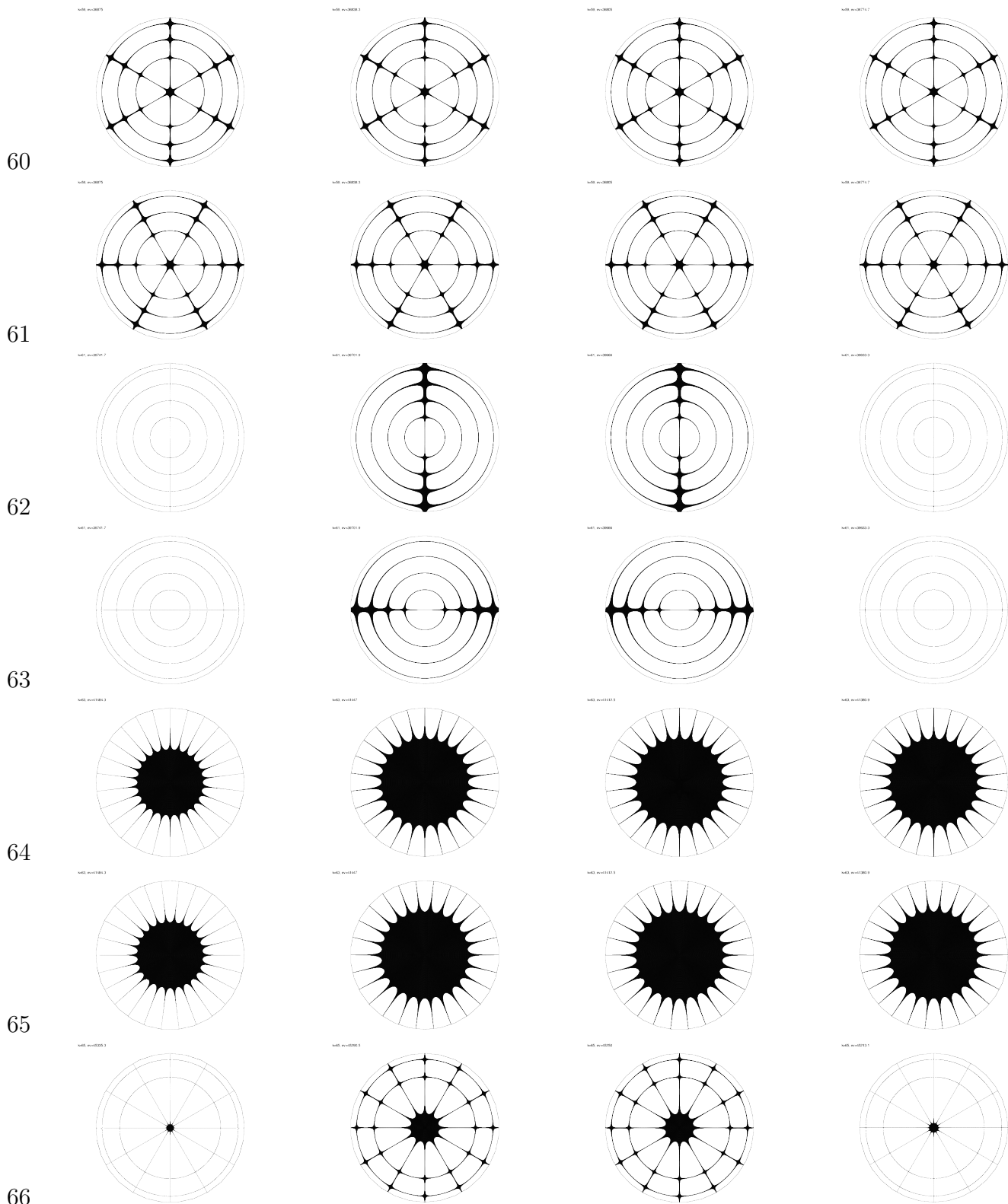
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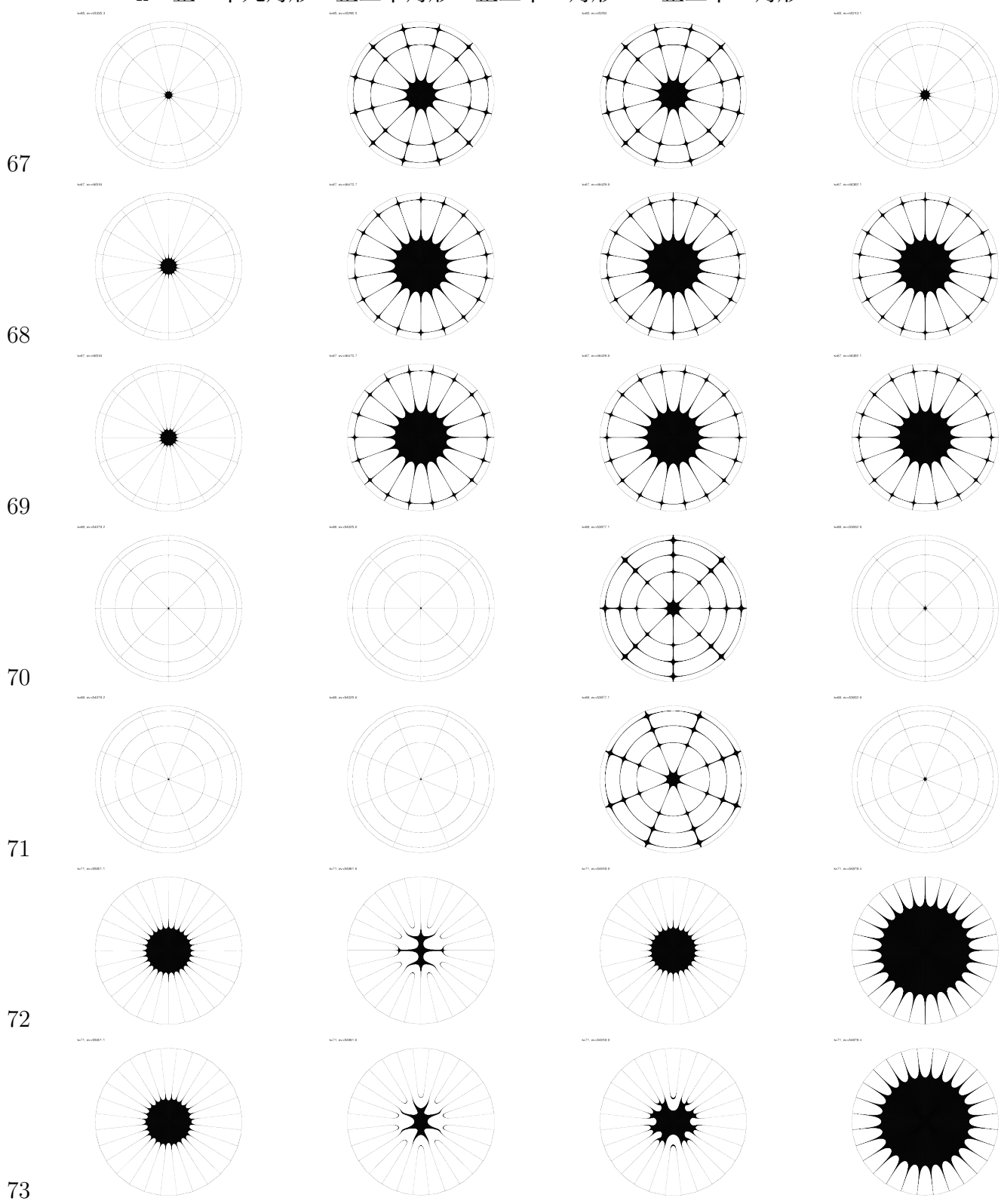
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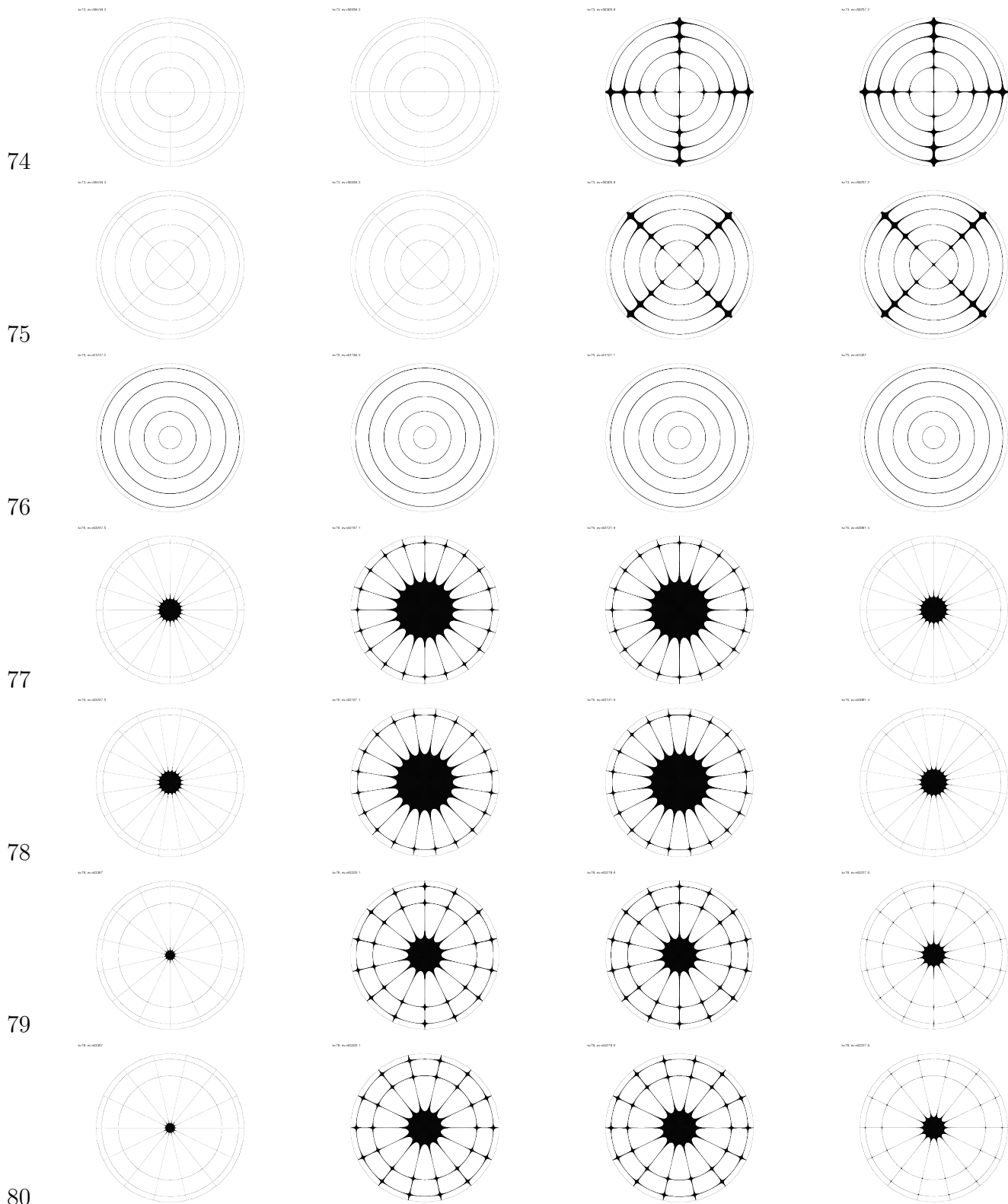
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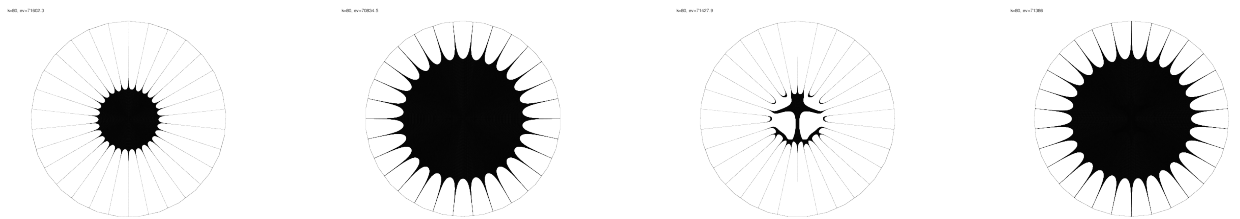


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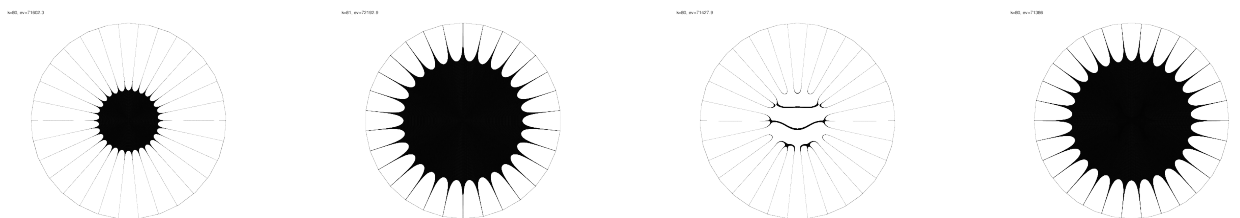


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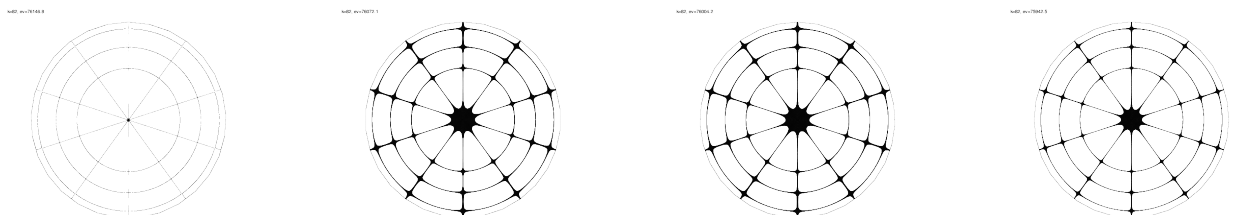
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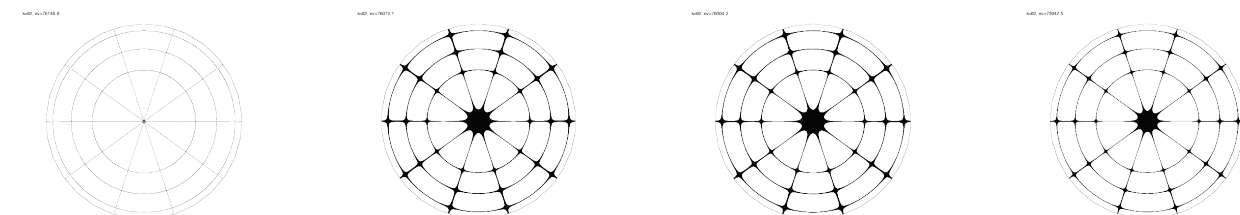
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83



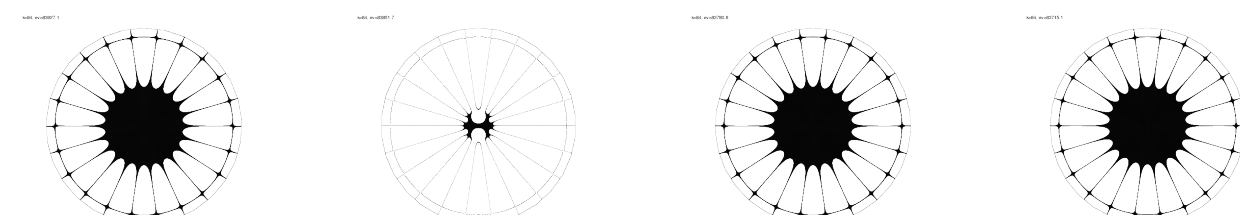
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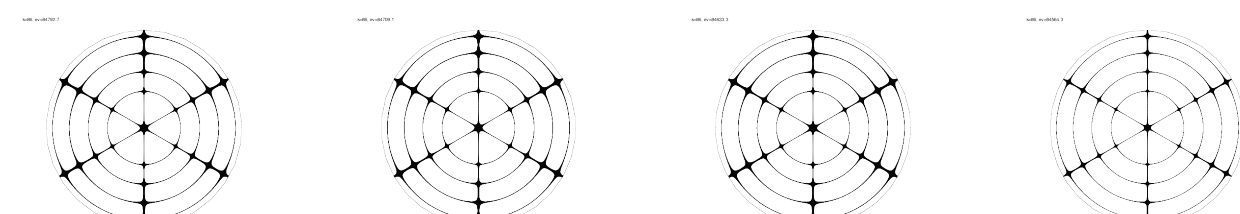
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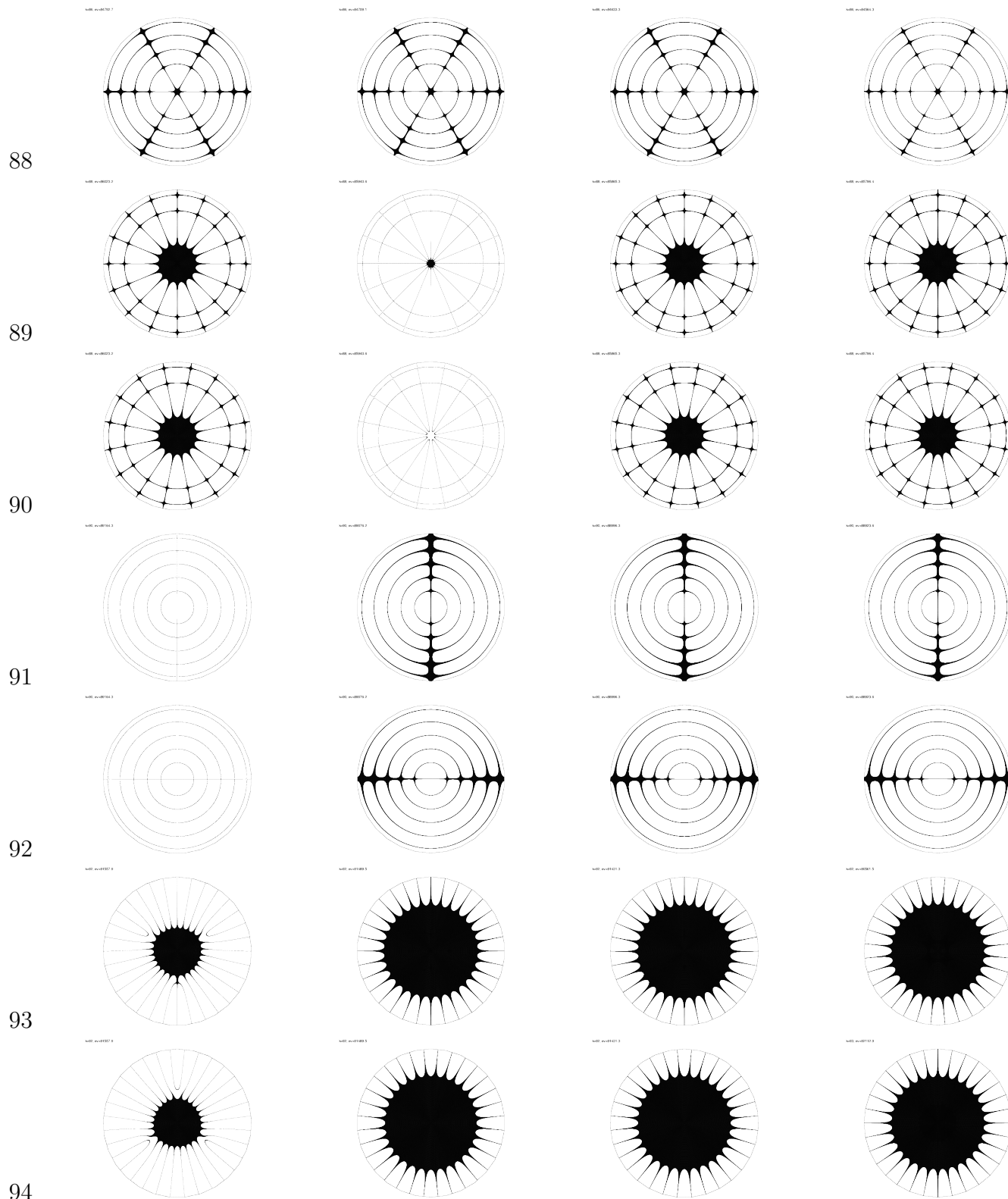
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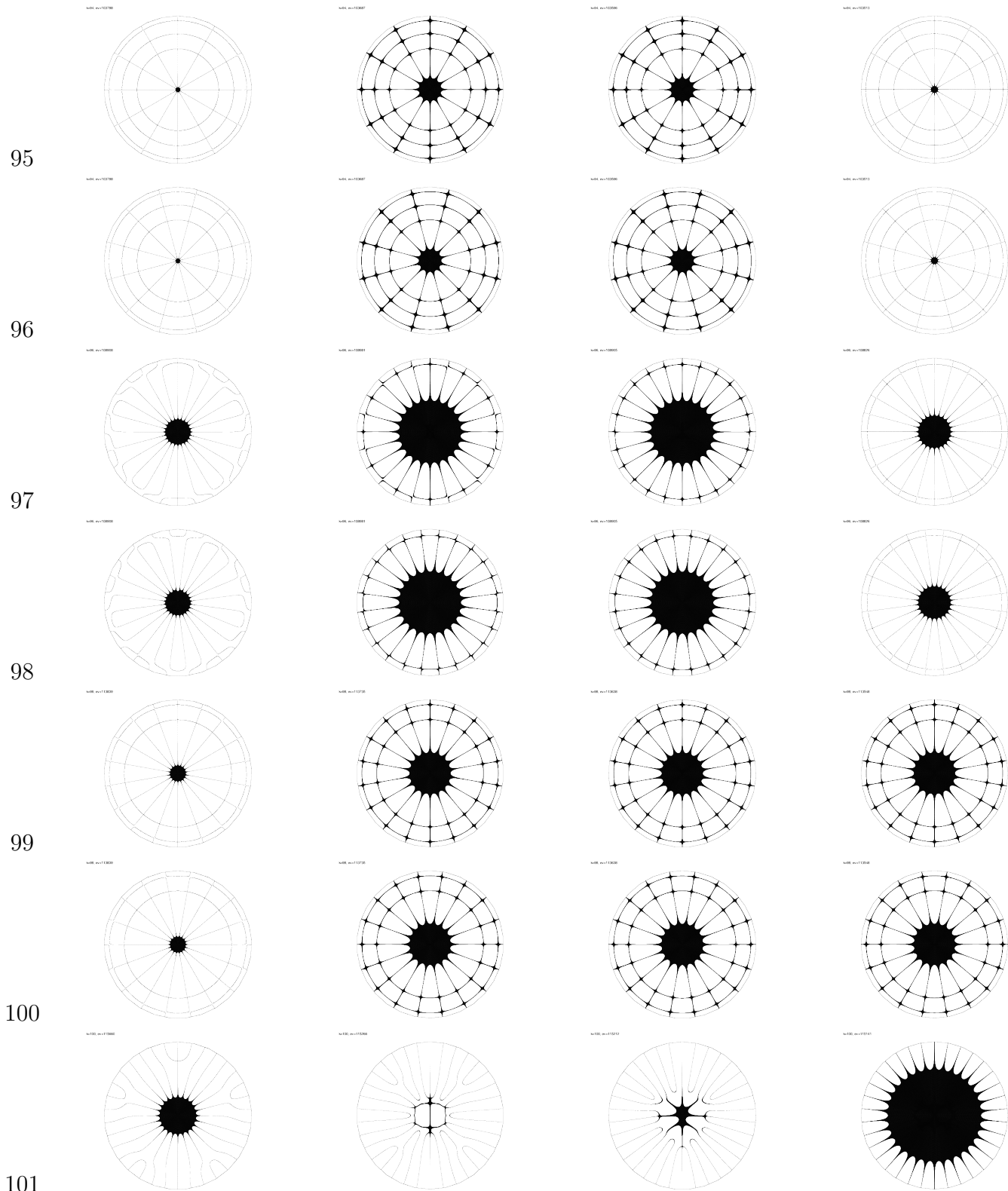
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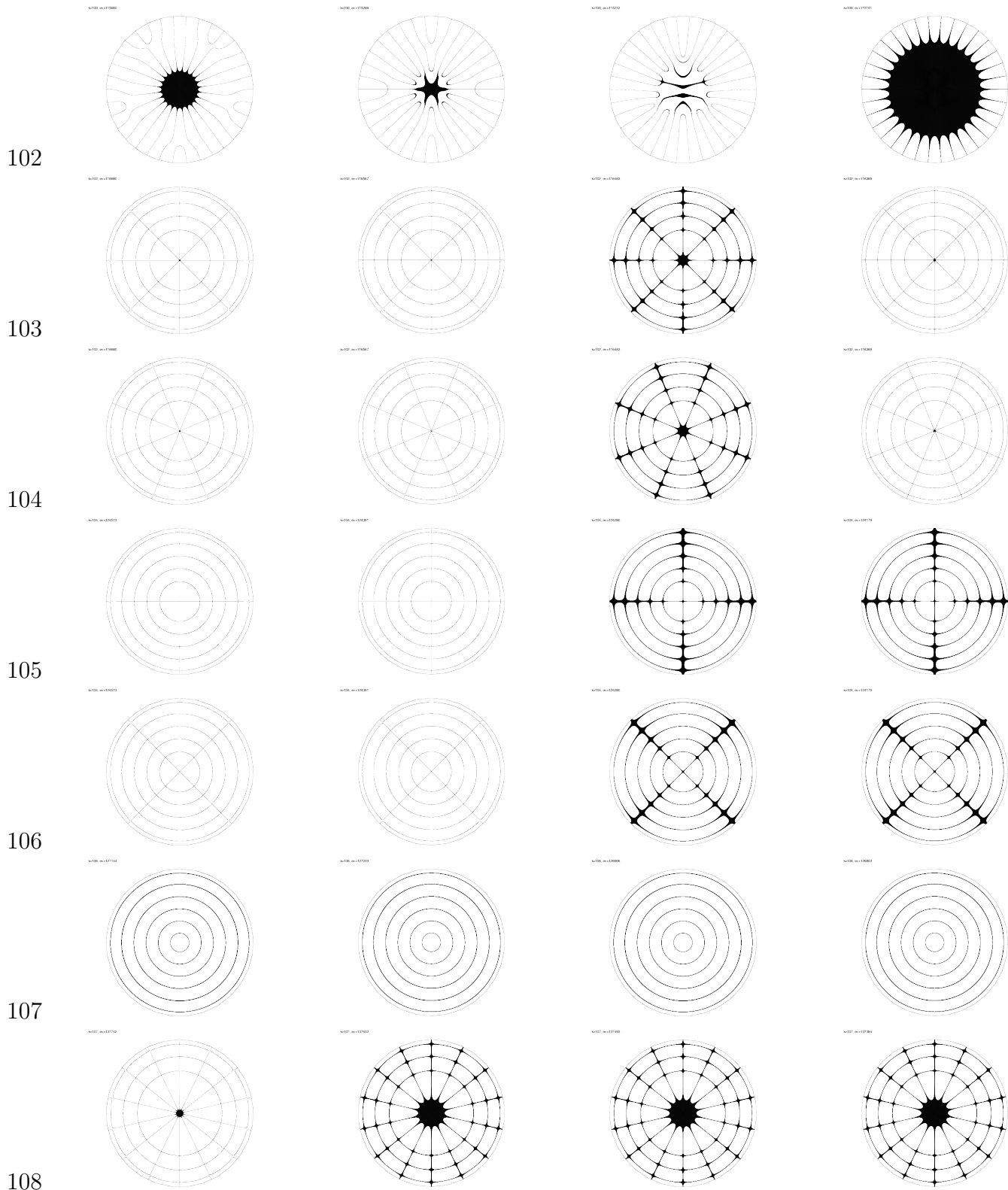
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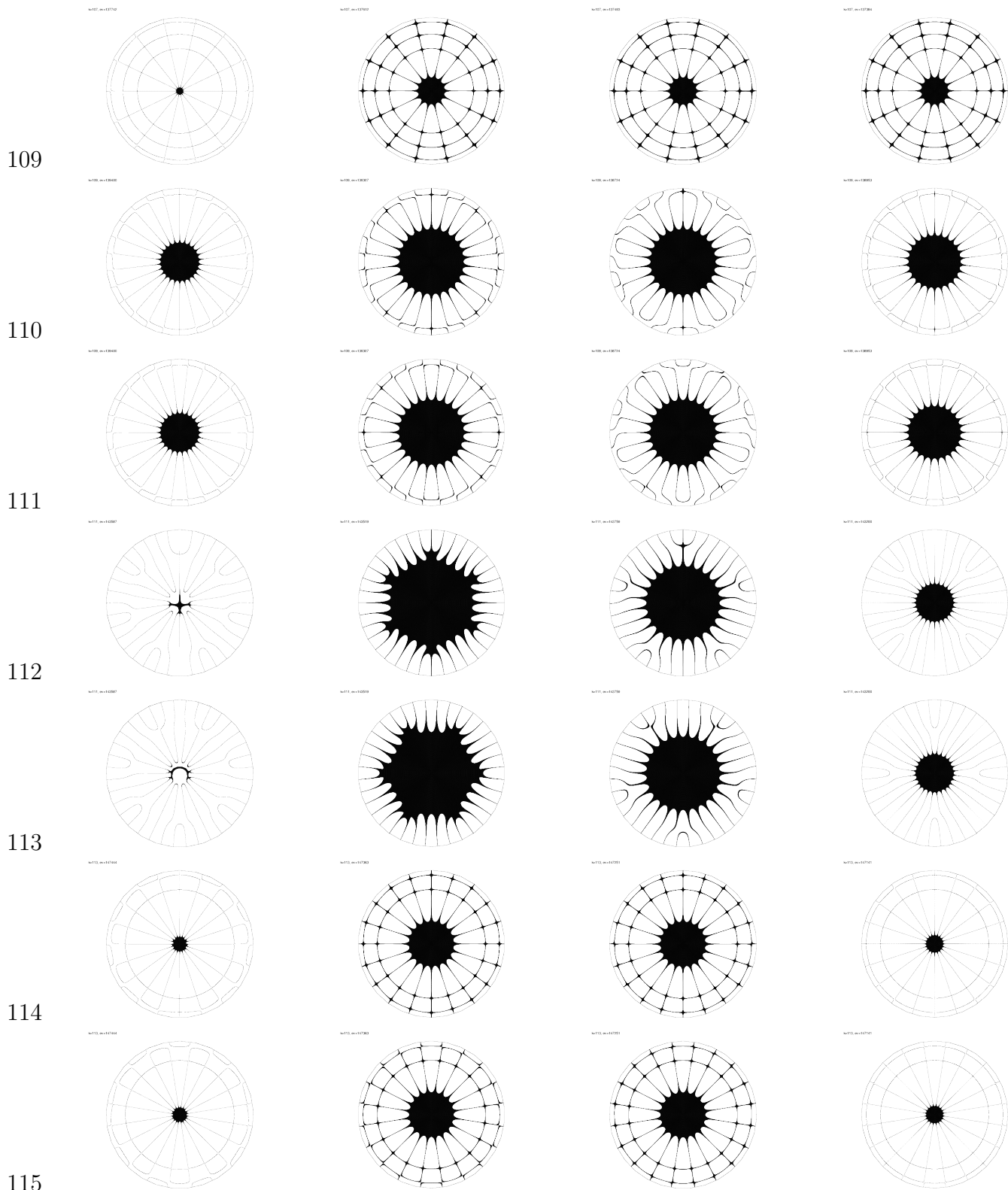
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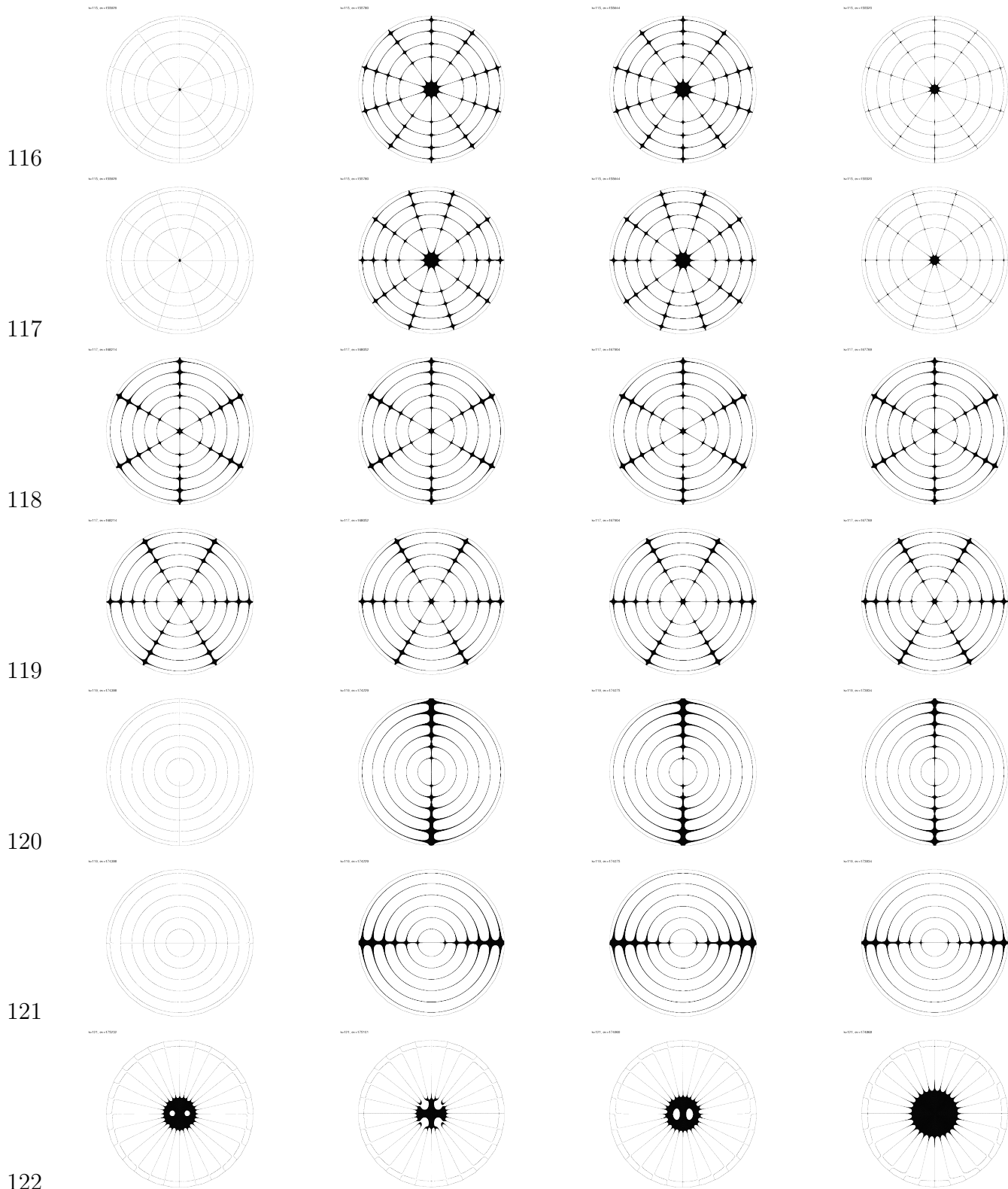
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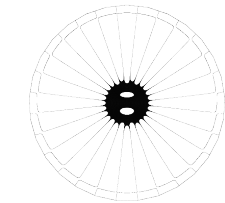
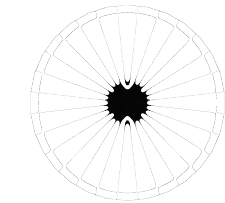
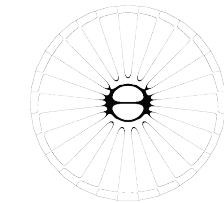
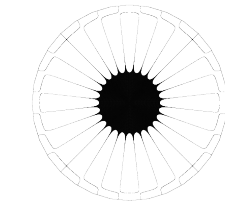
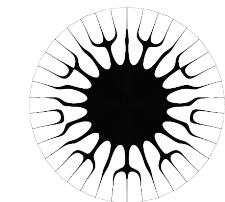
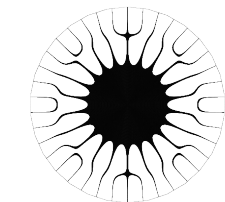
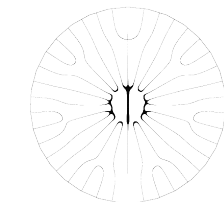
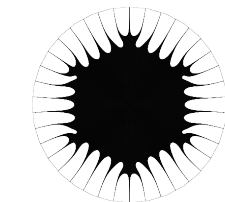
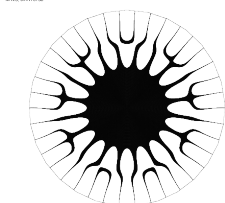
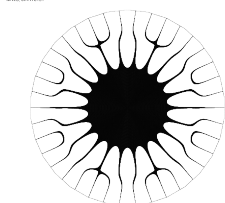
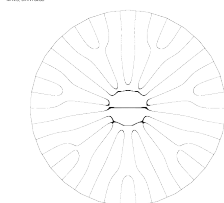
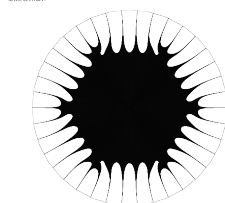
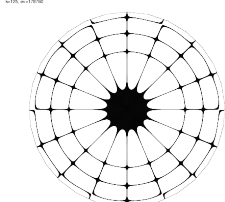
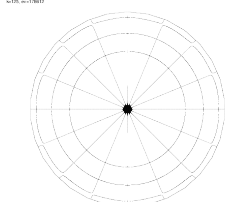
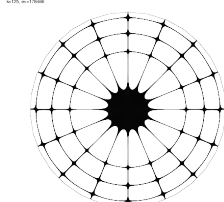
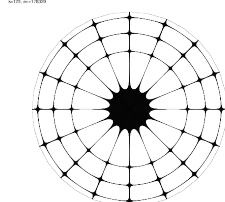
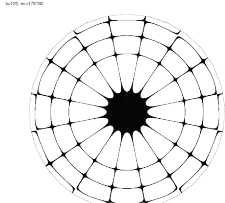
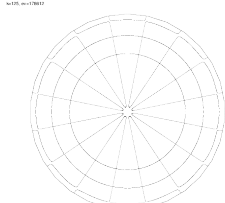
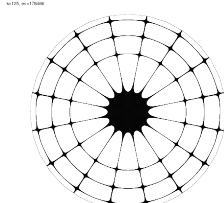
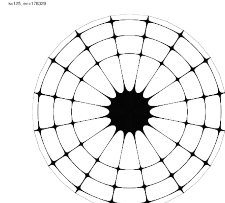
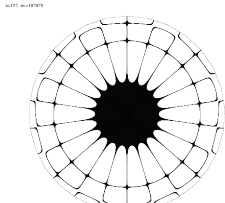
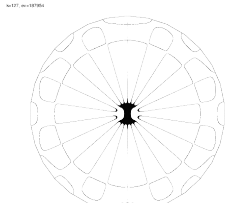
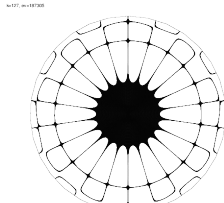
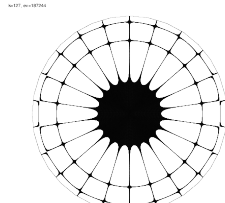
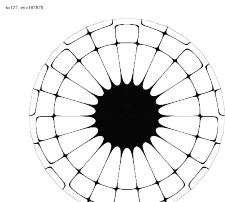
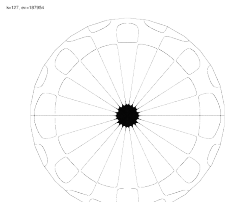
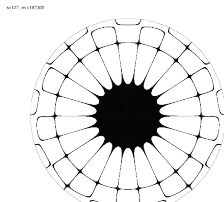
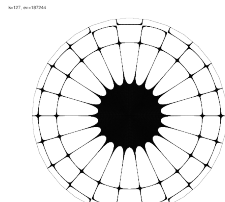
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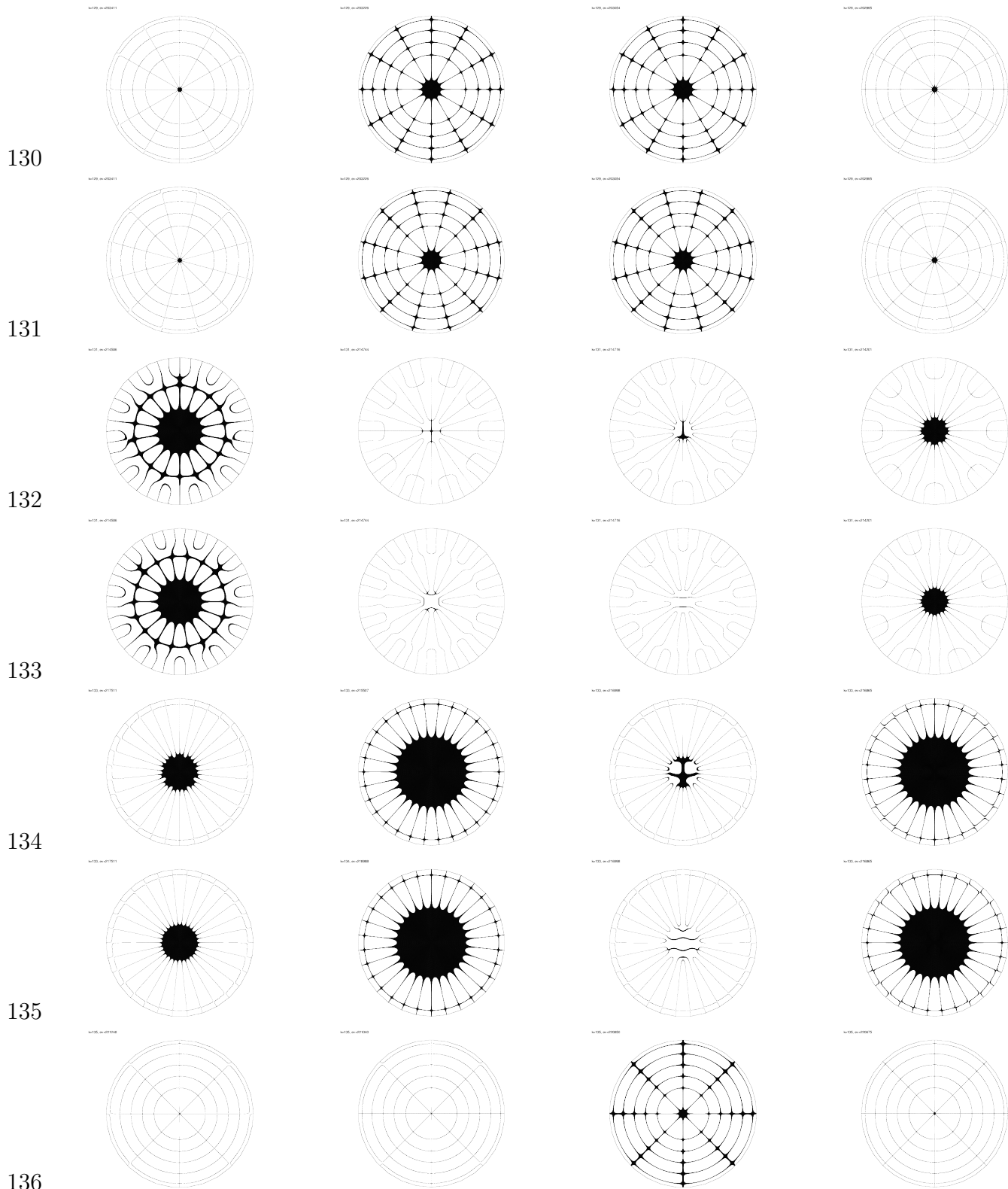
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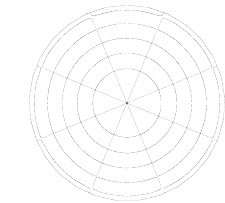
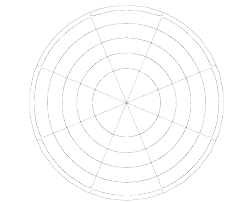
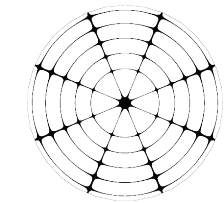
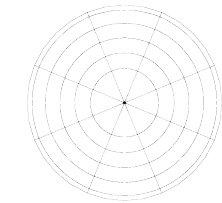
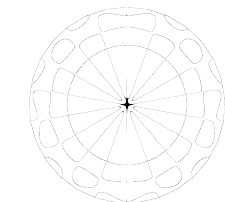
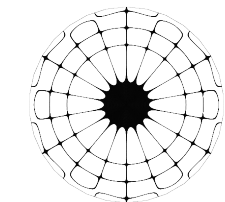
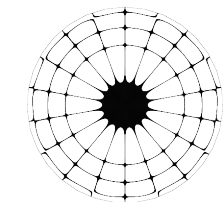
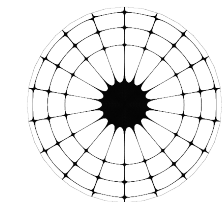
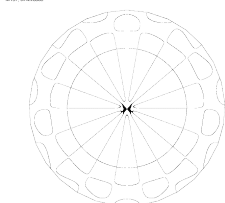
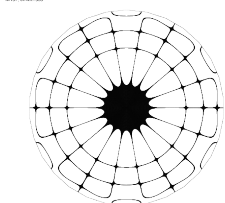
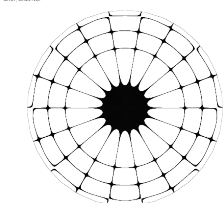
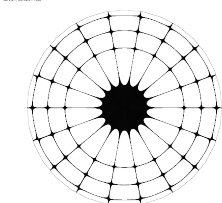
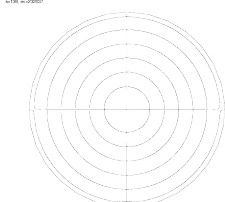
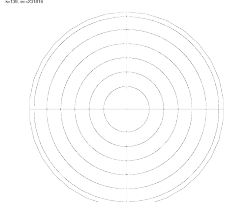
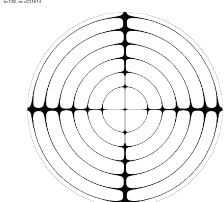
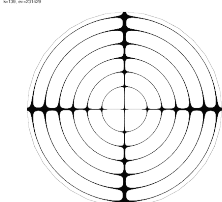
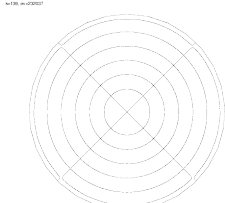
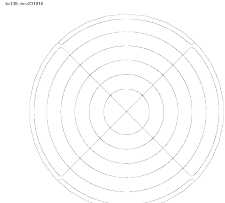
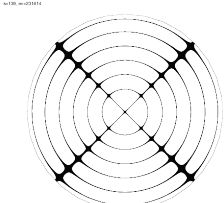
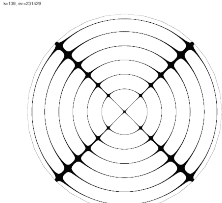
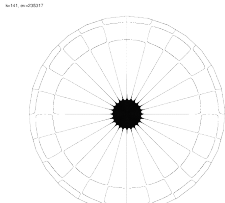
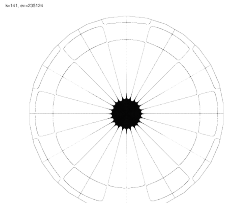
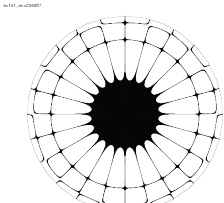
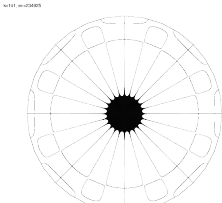
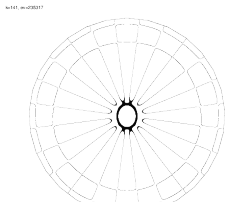
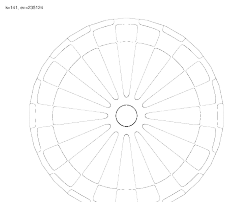
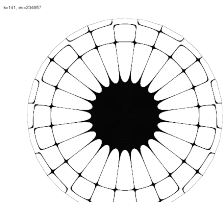
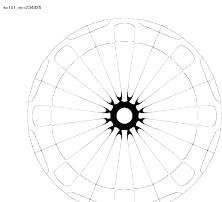
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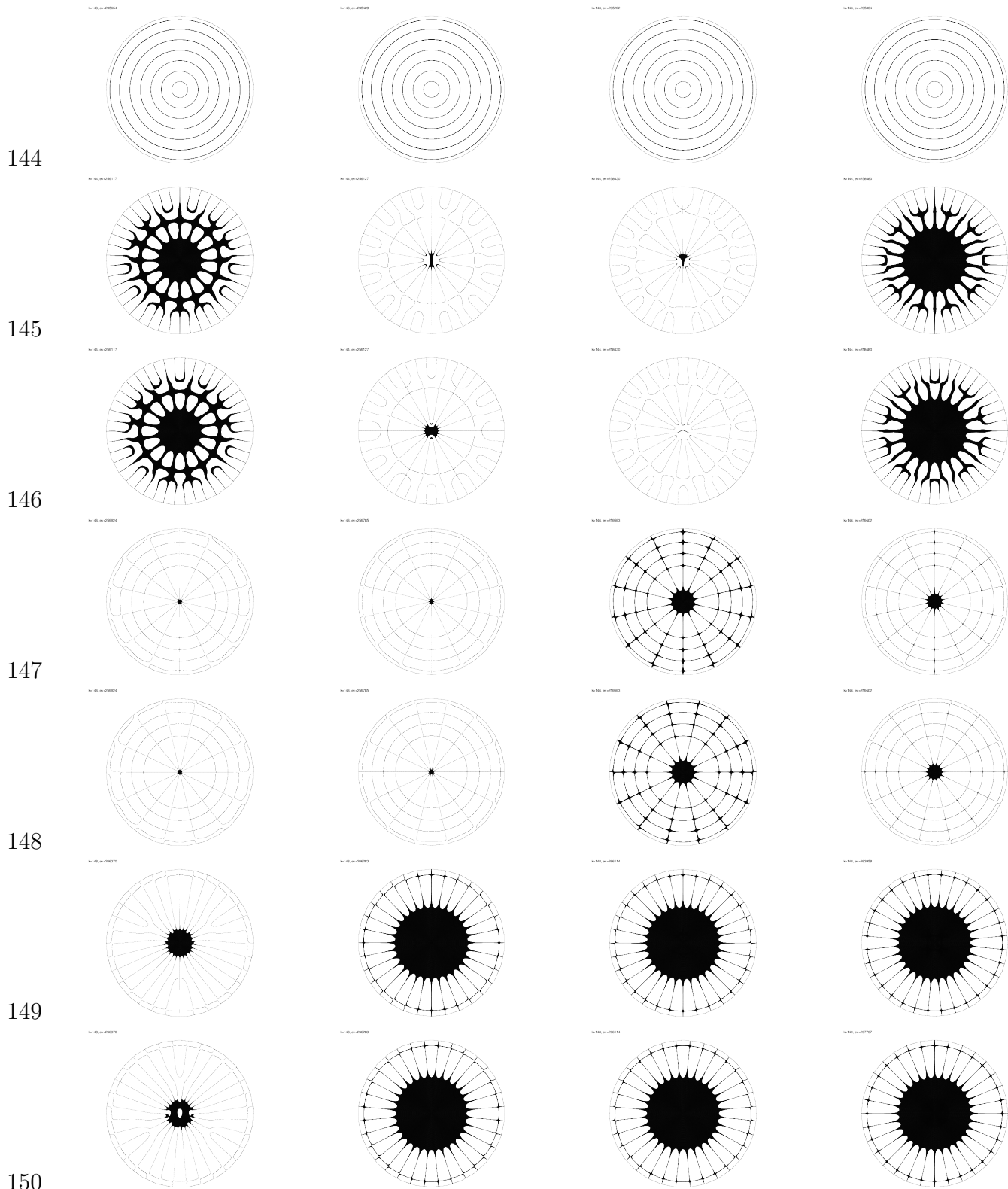
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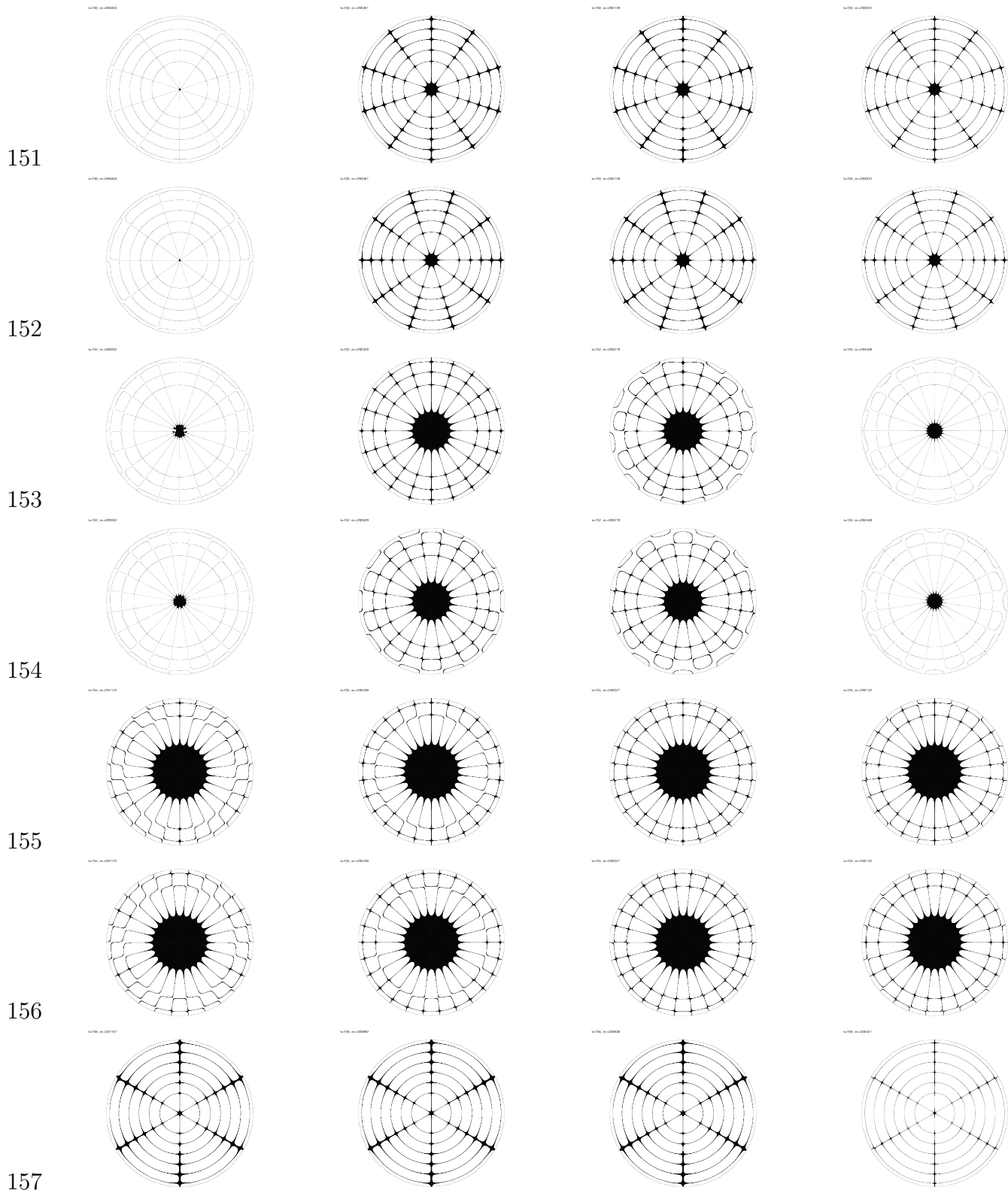
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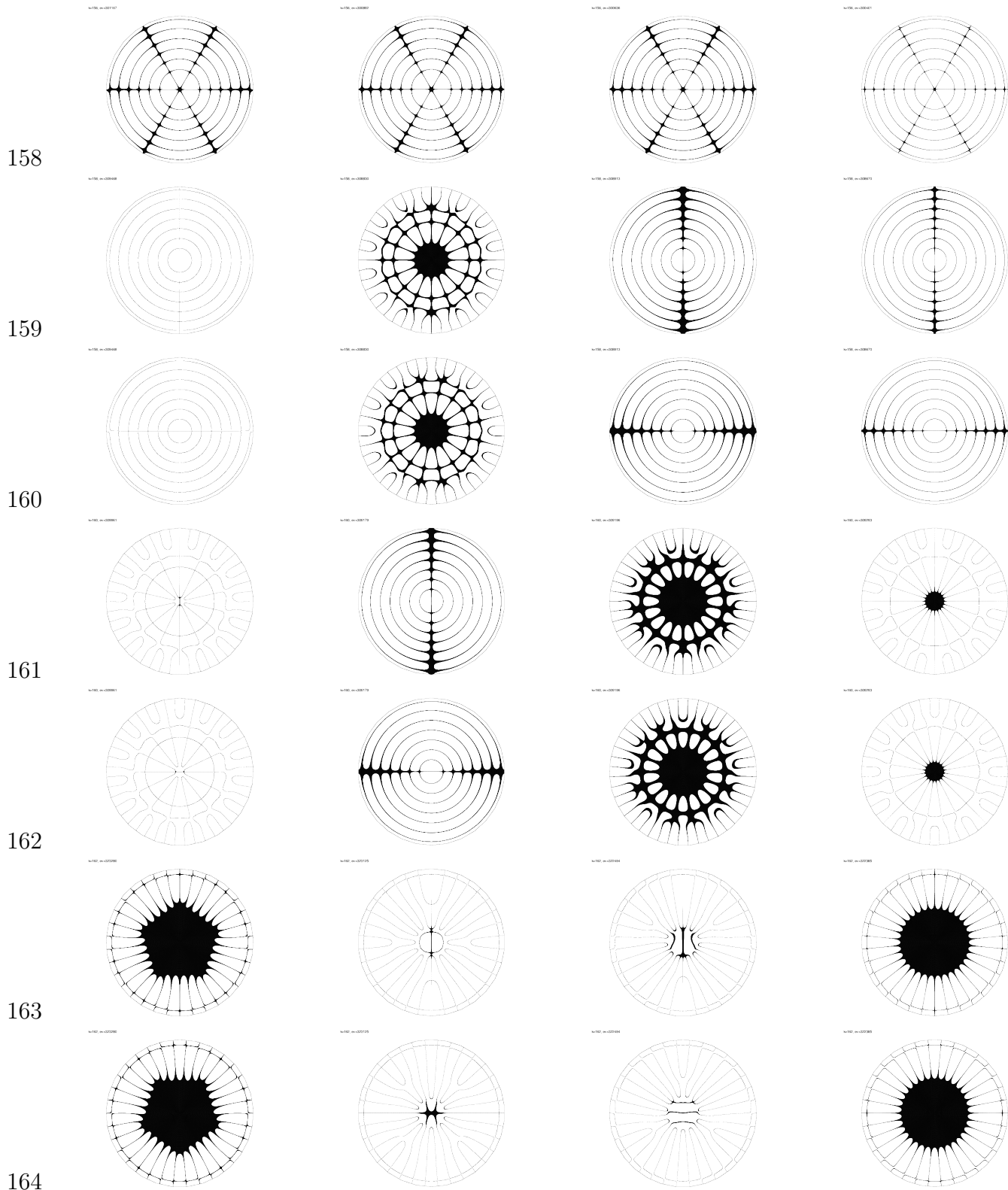
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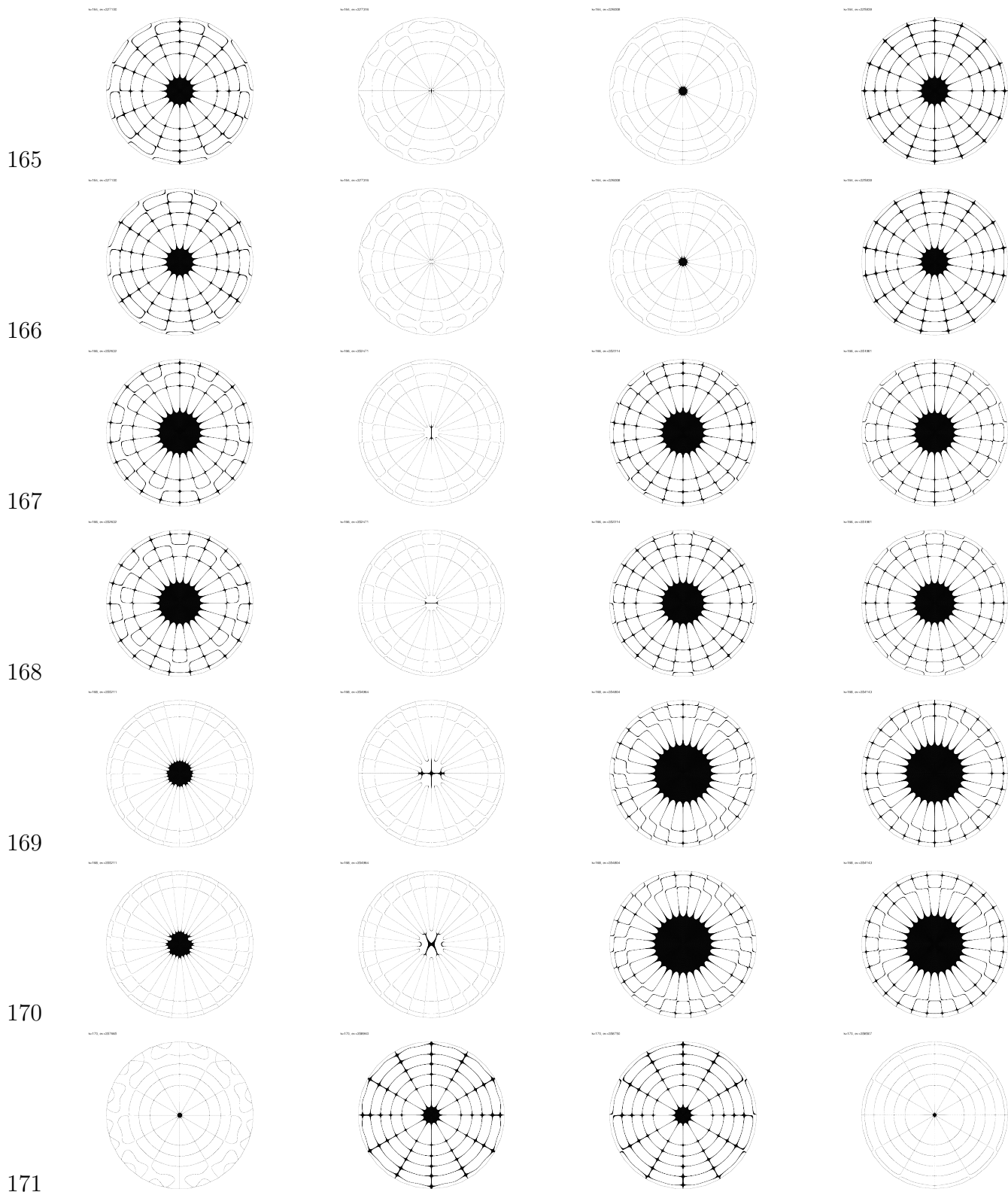
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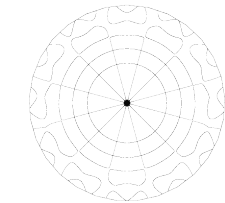
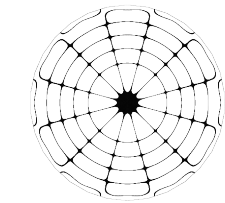
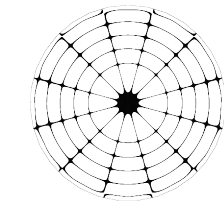
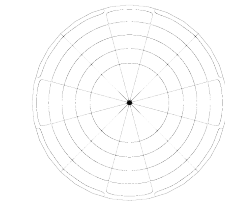
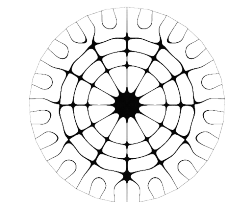
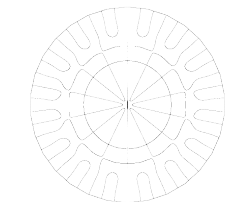
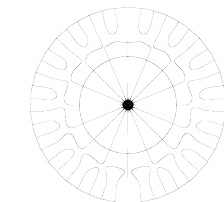
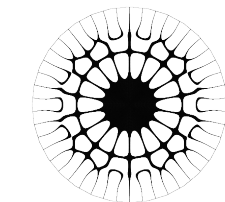
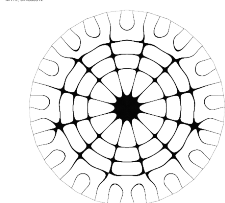
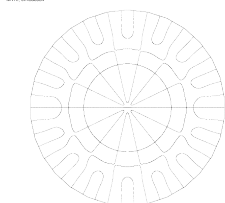
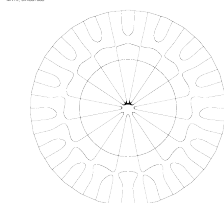
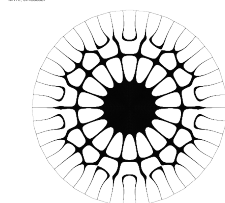
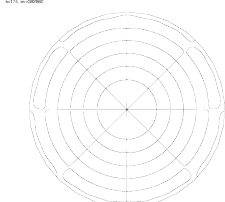
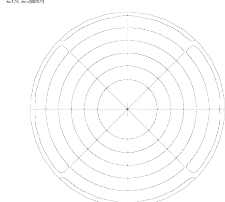
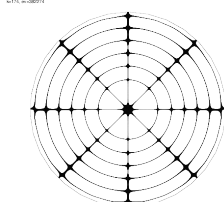
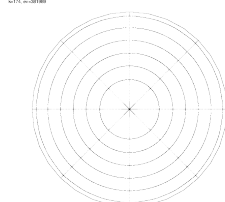
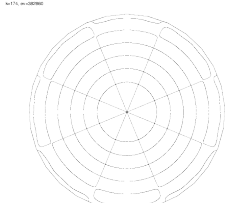
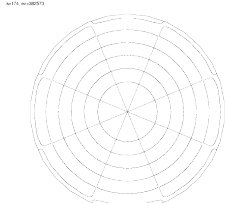
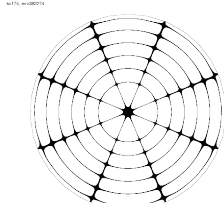
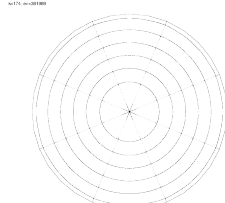
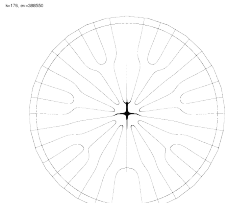
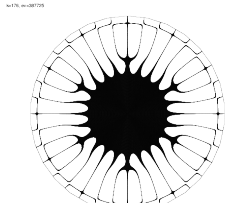
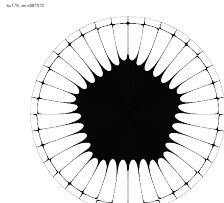
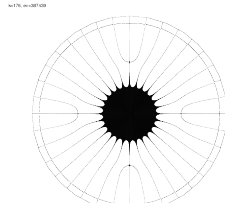
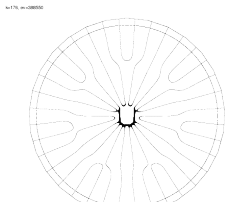
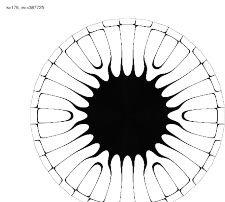
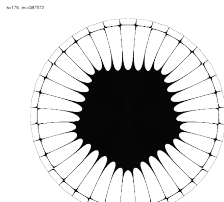
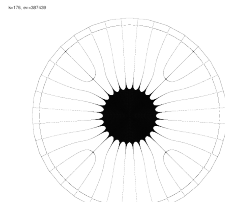
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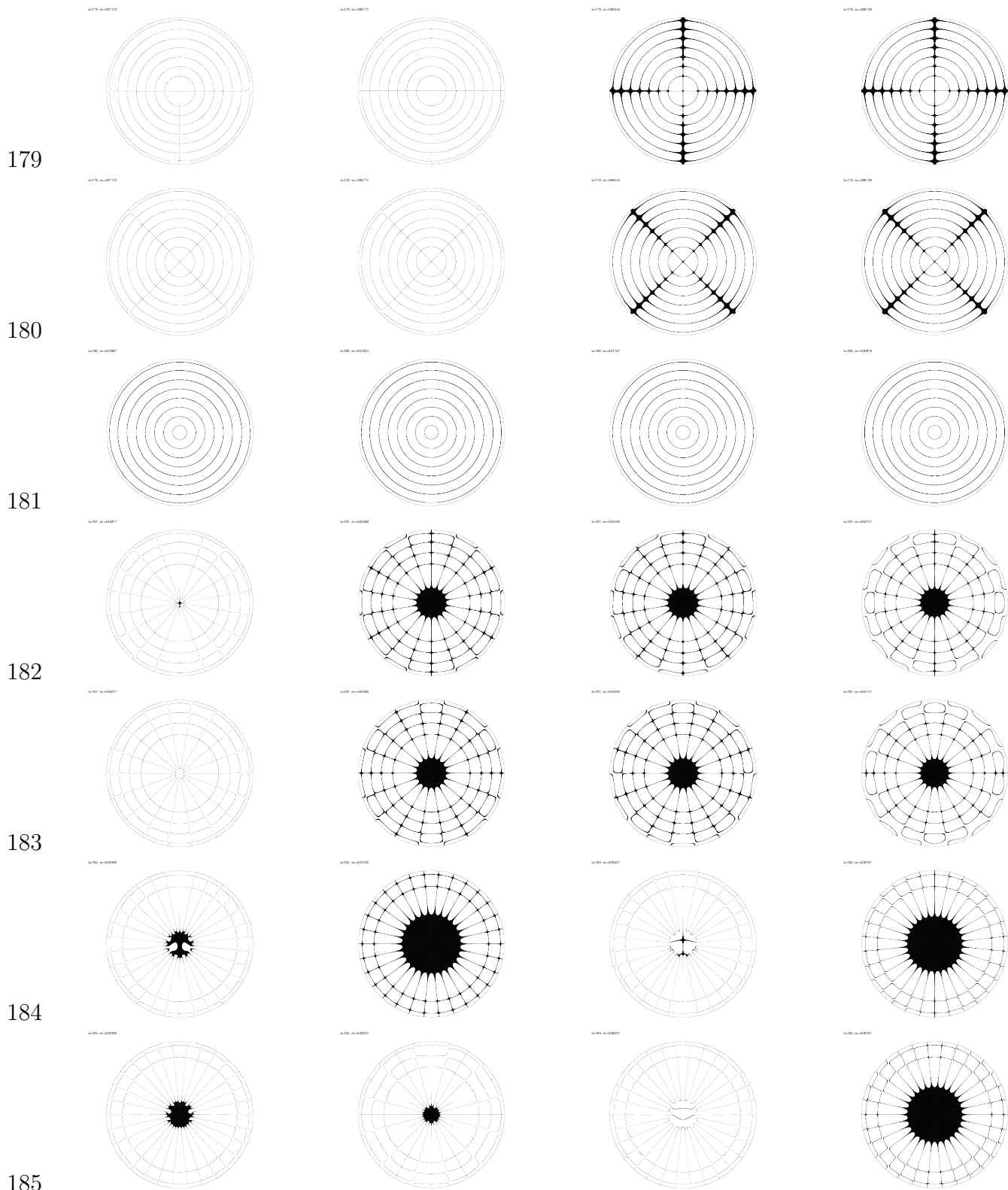
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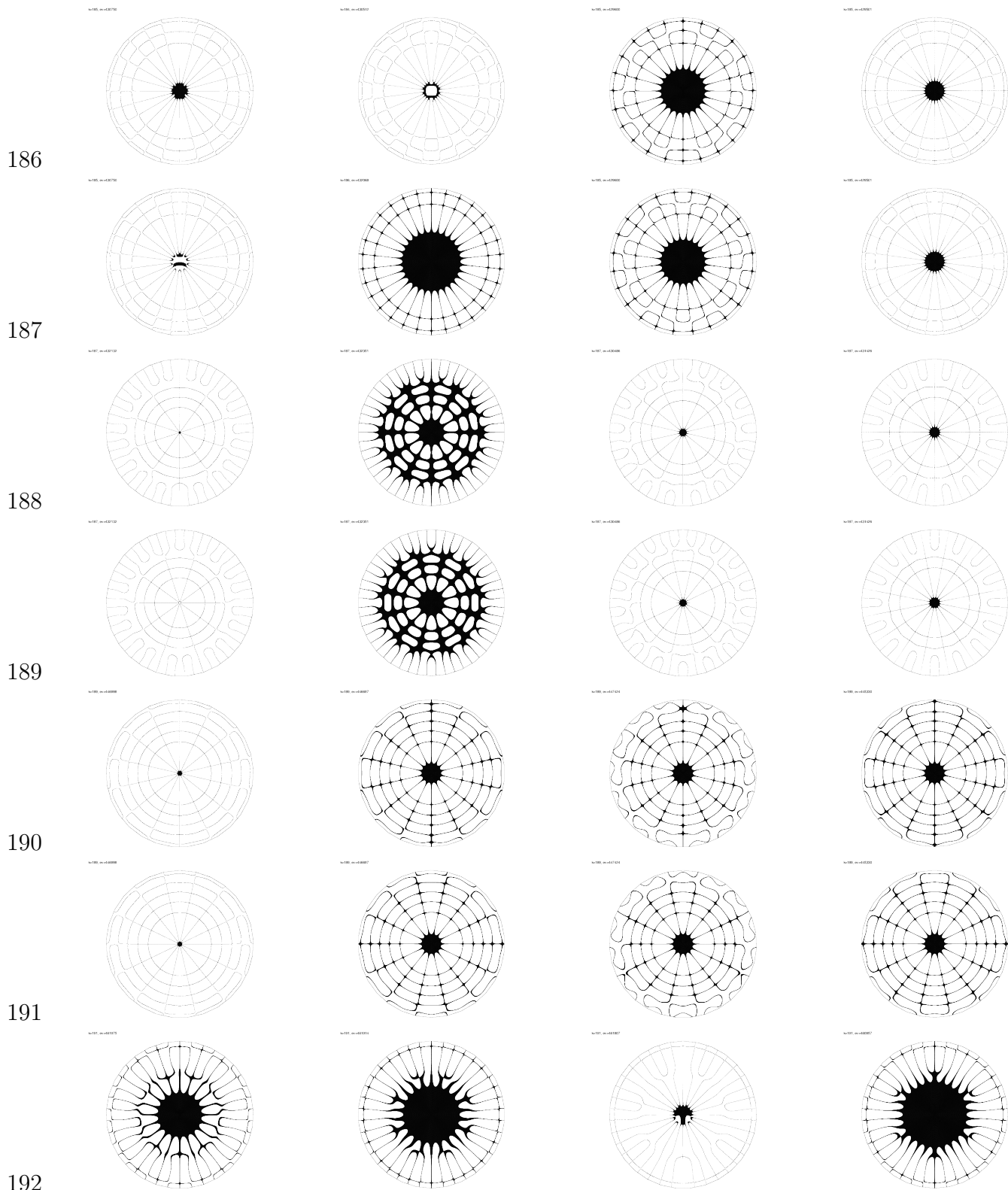
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