## DIAGRAMS FOR 2-DIMENSIONAL CATALAN NUMBERS

MURRAY BREMNER

1. The 2 Decompositions of degree 2

2. The 8 Decompositions of degree 3

3. The 39 DECOMPOSITIONS OF DEGREE 4


2

4. The 37 orbit representatives for the action of the dihedral group OF ORDER 8 ON THE 212 DECOMPOSITIONS OF DEGREE 5



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