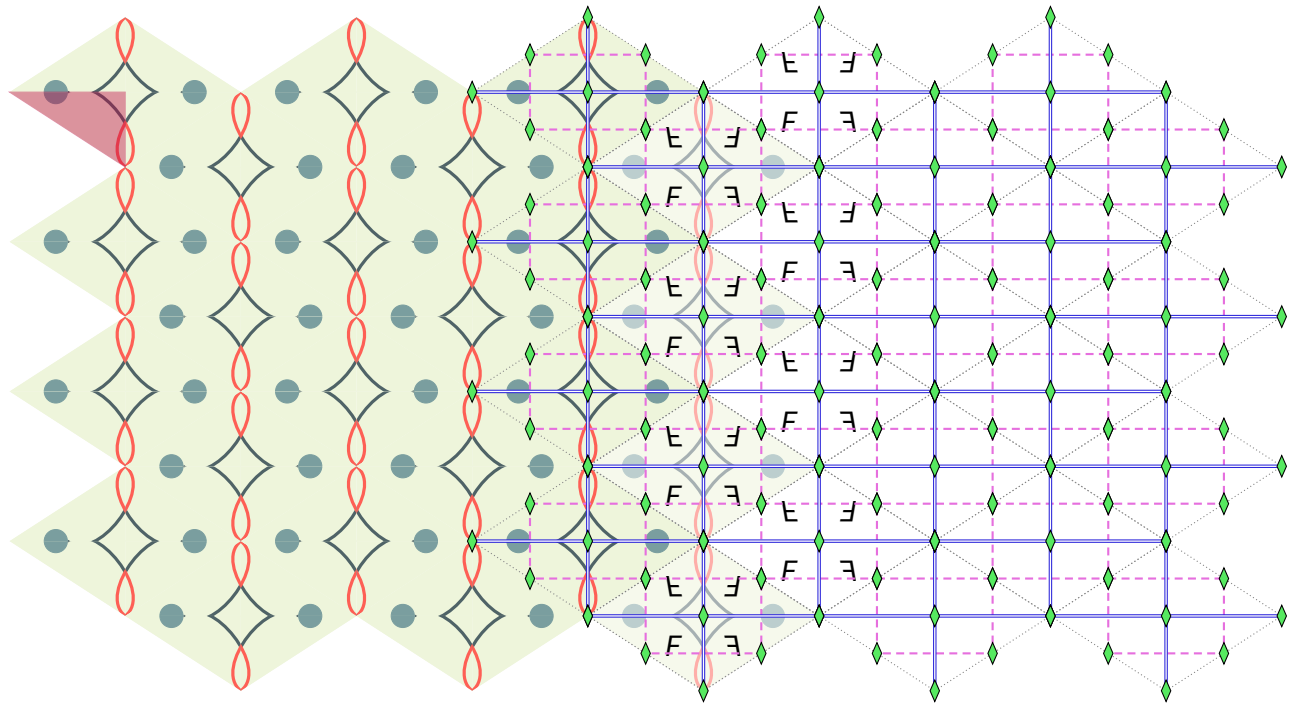


GROUP: CMM



ORBIFOLD SIGNATURE
2*22

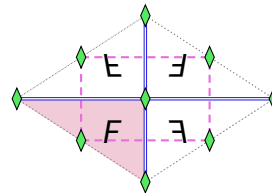
IUC NOTATION
cmm

COXETER NOTATION
[$\infty, 2^+, \infty$]

LATTICE TYPES

Rhombic
Square

LATTICE STRUCTURE



SAMPLE CELL



ROTATIONS

◆ **Two Fold Rotations**

Three centers of 180° rotation, two located at intersections of reflection axes, one located at intersections of glide reflection axes

REFLECTIONS

— Reflections
Two directions, perpendicular

- - - Glide Reflections
Two directions, perpendicular

NOTES

Characterized by staggered rows of an image with two perpendicular reflections. Equivalently, a checkerboard pattern of two alternating rectangular tiles, each with two reflections. A typical brick wall (with bricks staggered) is a common example, as are patterns resembling (identical) fish scales or feathers. Arises as a solution to several "circle packing" problems.

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FUNDAMENTAL CELL

SAMPLE TILING

