



CLAREMONT CENTER
for MATHEMATICAL SCIENCES

CCMS COLLOQUIUM

LOCAL SYMMETRY
IN WALLPAPER FUNCTIONS

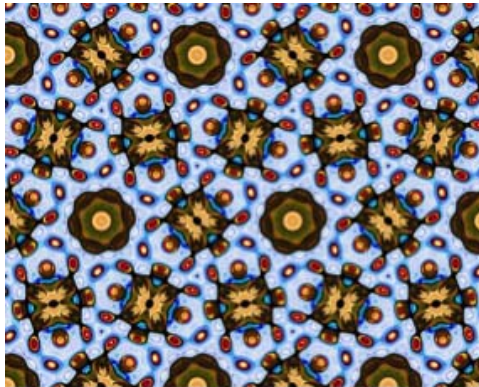
by

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Abstract:

The symmetry group of the image shown is called $p6$ by crystallographers. It is generated by one translation and one rotation through 60 degrees. Characterizing the pattern by its group invariance ignores a salient feature: the apparent reflection symmetry of the turtle-shaped figures. The explanation of this additional, local symmetry, involves such far-flung ideas as closed geodesics of orbifolds, eigenvalues of the Laplacian, and quadratic number fields.



Wednesday, February 6, 2013, at 4:15pm

Beckman B126, Harvey Mudd College

Refreshments at 3:45 p.m. in Harvey Mudd Math Lounge, Olin B161
(around the corner from Beckman B126)

and wine and cheese after the talk in the Math Lounge, Olin B161

*The dinner will be hosted by Prof. Richard Elderkin.
Please contact Prof. Elderkin if you are interested in attending the dinner*