

Cal Poly Department of Mathematics

Puzzle of the Week

Feb 28 - Mar 6, 2013

A cube of wood is divided into 27 identical mini-cubes (similar to a “Rubik’s Cube”). Alfred, a wood-eating bug, is in the center of the cube and can travel from the center of any mini-cube to the center of a face-adjacent mini-cube. Can Alfred travel from the center and visit the center of each mini-cube exactly once? If he can describe his path. If he cannot explain why.

Solutions should be submitted to Morgan Sherman:

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before next Thursday. Those with correct and complete solutions will have their names listed on the puzzle’s web site (see below) as well as in next week’s email announcement. Anybody is welcome to make a submission.

<http://www.calpoly.edu/~sherman1/puzzleoftheweek>