Geometry Seminar
May 10, 2005, Tuesday, 6:00 p.m.
Room 613, Courant Institute
251 Mercer Street, New York

Tiling 3-space with Golden Rhombohedra

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Abstract

he discovery of quasicrystals in 1984 generated a landslide of research in the mathematics of aperiodic order. As attention shifted from the concrete (e.g., the curious properties of Penrose tiles) to the abstract (e.g., dynamical systems and model sets), interesting questions in 3-space remained open. In this talk I will focus on nonperiodic tilings with golden rhombohedral prototiles, including the first-ever set due to Robert Ammann, and review some unsolved problems they still pose.

For further information contact {pach,pollack}@cims.nyu.edu, or visit our website: http://www.math.nyu.edu/seminars/geometry_seminar.html