

Geometry Seminar
Tuesday, Sep 7, 2010
Room 201 WWH at 6:00 P.M.

Pattern-Equivariant Cohomology of Tiling Spaces with Rotations

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Pattern-equivariant cohomology theory was developed by Ian Putnam and Johannes Kellendonk in 2003, for tilings whose tiles appear in fixed orientations. We'll explain the basics of tilings and pattern-equivariant cohomology. Next we'll offer two generalizations: first, we define the cohomology on tiling spaces, and second, we allow tilings with tiles appearing in multiple or infinitely many orientations. Finally, we will explain what the rotationally equivariant cohomology tells us about the tiling space.

For more information please visit the seminar website at:
http://www.math.nyu.edu/seminars/geometry_seminar.html.