

Geometry Seminar
Tuesday Oct 10 in room 613 WWH at 6:00
P.M

Some Aperiodic Species of tilings of E^3

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Summary

The interest in aperiodic tilings arose from the detection of quasicrystals in 1984. The talk will deal with four different species of such tilings, the prototiles being

- the two Kowslewski-(Aumann-) parallelotopes,
- the four Socolar-Steinhardt rhombohedra,
- the four tetrahedra A, B, C, K and
- the SCD (a biprism).

The first three are based on icosahedral symmetry (the third being equivalent to the second), while the last one has a single prototile only and does not even tile E^3 in a quasiperiodic manner.