Seminario de investigación
Antonio Giraldo y Sonia Sastre

Conferencia

Quasicrystals, substitution systems and amorphic complexity

por

Maik Gröger (Jagiellonian University)

Resumen

The main feature of physical (quasi)crystals is their point-like diffraction which indicates that their internal structure exhibits long-range order. In particular, for quasicrystals this constitute a surprising observation since their internal order is inherently aperiodic, i.e., is intermediate between periodicity and randomness.
In this talk, I will show how dynamical methods can be used to study mathematical quasicrystals, in particular, with the help of amorphic complexity which is a (topological) dynamical invariant. I will put a particular focus on classes of examples coming from substitution systems where amorphic complexity can be explicitly calculated and the methods which are used for doing this.
This is, in part, joint work with G. Fuhrmann, T. Jäger, E. Krawczyk and D. Kwietniak.

Lugar:

Sala H-1002 (bloque 1)
E.T.S. Ingenieros Informáticos,
Universidad Politécnica de Madrid,
Campus de Montegancedo,
28660 Boadilla del Monte,
Madrid

Fecha:

el día **10 de septiembre de 2024**
a las **12:30** horas