

The 2nd Combinatorics Day

Saturday, 17th of March of 2012

DMUC, room 2.5

Abstracts

16:00-16:30 **Altino dos Santos** (UTAD):

A tour through spherical f-tilings

Abstract: Folding tilings (f-tilings, for short) are intrinsically related to the theory of isometric foldings of Riemannian manifolds, introduced by S. A. Robertson in 77. A spherical f-tiling, as the set of singularities of a spherical isometric folding is an edge-to-edge decomposition of the sphere by geodesic polygons, such that all vertices are of even valency and the sums of alternating angles around each vertex are π . In addition to this relationship, we will present a summary about the classification of (monohedral and dihedral) f-tilings of the sphere obtained over the past ten years.