

The 3rd Combinatorics Day

Saturday, 2nd of March of 2013

room 8.2.23, in C8, FCUL

Abstracts

11:00-11:45 **Teresa de Sousa** (CMA,UNL):

Clique Decompositions of Graphs

Abstract: Given graphs G and H , and a colouring of the edges of G with k colours, a monochromatic H -decomposition of G is a partition of the edge set of G such that each part is either a single edge or forms a monochromatic graph isomorphic to H . Let $\phi_k(n, H)$ be the smallest number t such that any graph G of order n and any colouring of its edges with k colours admits a monochromatic H -decomposition with at most t parts. Results for the function $\phi_k(n, K_r)$ for $k \geq 2$ and $r \geq 3$ will be presented. This is joint work with Henry Liu.