NON-COMMUTATIVE TECHNIQUES IN THE STUDY OF FOLIATED SPACES

SPEAKER: Marta Macho-Stadler (Universidad del País Vasco)

DATE: Wednesday, 29 May 2019 - 11:00

VENUE: Aula Naranja, ICMAT

ABSTRACT: A (regular) foliation is a partition of a manifold into submanifolds of the same dimension, the leaves, locally arranged as the leaves of a book, even if its topology and global order can be very complicated. The influence of the manifold topology on the topology and transverse dynamics of the leaves has been one of the fundamental questions in foliation theory. Nowadays, foliation theory is a multidisciplinary field, essentially non distinguishable of dynamical systems theory, and that needs different and complicated geometric, topologic, analytic and probabilistic techniques. My research consists in the dynamic study of foliated spaces and the analytic and K-theoretical study of the corresponding noncommutative spaces.

MORE INFORMATION: The talk is open to mathematicians of all areas. It will be in Spanish. After the talk we will have an extended Q&A (in English/mixed) where the speaker can share her ample experience in gender and diversity issues which have led her to win the Emakunde Prize for Equality.

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