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UNIVERSIDAD COMPLUTENSE MADRID

Colloquium ICMAT-UCM
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SPEAKER: Artur Avila (IMPA, Rio de Janeiro)

DATE: Tuesday May 29, 2018 - 13:00 h

VENUE: Aula Miguel de Guzmán, Facultad de CC. Matemáticas. Universidad Complutense de Madrid.

ABSTRACT: A common theme in the perturbative theory of dynamical systems is to start with a relatively simple to understand class and try to study whether the dynamics of nearby systems reduces (after conjugation) to the simple class. However, this notion of "reducibility" turns out to be somewhat fragile, in large part due to the generic presence of arithmetic obstructions (small divisors). We will discuss a more flexible concept, "almost reducibility"' which in certain contexts has been shown to be much more robust.

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