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Room: CRM A1 (Universitat Autònoma de Barcelona)

Mixing and ergodicity for compositions of inner functions

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Thanks to the work of Aaronson, Doering and Mañé, Crazier, and many others, we know that the properties of an inner function and its dynamics in the unit disc are closely related to the dynamics of its boundary extension. If, however, we consider compositions of inner functions, i.e. non-autonomous dynamics in the unit disc, much less is known about its relation to the corresponding non-autonomous dynamical system on the unit circle given by composing the boundary extensions. In this talk, we will tackle this problem from the point of view of ergodic theory. We will discuss ergodicity and mixing in this non-autonomous setting, relating them to properties of the inner functions generating the composition, and discuss how it generalises the autonomous setting. This is joint work with Artur Nicolau (UAB).

More information at: <https://mat.uab.cat/web/seminarianalisi/>