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**Scoil na
Matamaitice agus na Staitisticí UCD**

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Analysis Seminar

Yuri Lima (Universidade Federal do Ceará)

will speak on

Symbolic dynamics for billiards

Fri 15th February 2019 at 3:00PM

Location: Seminar Room SCN 1.25

One of the classical examples in dynamical systems are billiards: introduced more than a century ago, they are a simplification of Boltzmann's model in statistical mechanics. However, due to the presence of singularities, most of the usual theory in dynamics does not apply to them. In this talk, I will present an approach, using symbolic dynamics, that allows to better understand billiards. The main result, apparently expected since the 70s (when symbolic dynamics was extensively applied to hyperbolic diffeos/flows), was only recently obtained. Joint work with Carlos Matheus.

This talk is part of the **Analysis** series. For more, see
<https://maths.ucd.ie/seminars>