**Ciências ULisboa**

# SEMINÁRIO

# SISTEMAS DINÂMICOS

## 1 Outubro | 10h30 | sala 6.2.33

## The small divisors problem in the quantum Kicked Rotator (III)

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Abstract:

The Kicked Rotator is one of the central models in studies of chaos theory. Its quantization was the subject of great interest in the 1980's, but since the 1990's, interest faded. I hope to rekindle interest in this subject.
This third working seminar will consist in two parts. In the first part I will start by recapitulating the quantization of the classical Kicked Rotator and of a solvable variant of it. I will then proceed to recall how to do perturbation theory for the quantum Kicked Rotator and the results I got in this domain. In the final part I will review what remains to be done and, hopefully, lively discussion will ensue.

CMAFcIO

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