

# Seminário de sistemas dinâmicos e estocásticos

IMECC - UNICAMP

## Renormalisation of singular SPDEs close to criticality

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### Resumo:

In this talk, we consider the fractional model  $\Phi_d^3$  which is a stochastic PDE on the d-dimensional torus. Through this example, we illustrate the theory of regularity structures and we focus on its behavior close to the critical parameter. We obtain precise asymptotics on the renormalization counterterms as the mollification parameter becomes small and the fractional Laplacian parameter approaches its critical value. This is a work in collaboration with Nils Berglund.

**Data:** 12/03/2021 - 11:00 (GMT-3) - Via Zoom - Meeting ID: 918 4053 0540  
- Passcode: 365252

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