



# SEMINÁRIO DE EQUAÇÕES DIFERENCIAIS

**On a localization-in-frequency approach for a class of elliptic problems with singular boundary data**

**Lucas C. F. Ferreira\***

Departamento de Matemática - IMECC-UNICAMP

14/05/2024 (Terça-Feira)

16:00 horas

Sala 321 do IMECC

**Resumo:** We consider a class of nonhomogeneous elliptic equations in the half-space with critical singular boundary potentials and nonlinear fractional derivative terms. The forcing terms are considered on the boundary and can be taken as singular measure. Employing a functional setting and approach based on localization in frequency and Littlewood-Paley decomposition, we obtain results on solvability, regularity and symmetry of solutions.

Joint work with Dr. Wender S. Lagoin (Unicamp, Brazil)

\*LCFF was supported by CNPq 308799/2019-4 and FAPESP 2020/05618-6, Brazil.