

# SEMINÁRIO

## ANÁLISE E EQUAÇÕES DIFERENCIAIS

25 de Julho | 14h30 | sala 6.2.33

### A free boundary problem for an inhomogeneous operator with nonstandard growth

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**Abstract:**

We present recent results on a free boundary problem for an inhomogeneous operator with nonstandard growth. This operator has been used in the modelling of electrorheological fluids and in image processing. We obtain free boundary regularity results for weak solutions and we apply these results to minimizers of suitable energy functionals.

This is joint work with Noemi Wolanski (Universidad de Buenos Aires and IMAS - CONICET).

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