

Faculdade de Ciências da Universidade de Lisboa  
cmafci@fc.ul.pt Tel. (+351) 21 750 00 27

## SEMINÁRIO DE ANÁLISE E EQUAÇÕES DIFERENCIAIS

**Dia 26 de Outubro (quinta-feira), às 13h30, sala 6.2.33**

# Choquard type equations with Hardy-Littlewood-Sobolev critical growth

**Daniele Cassani**

**(Università degli Studi dell'Insubria and RISM)**

**Abstract:** We are concerned with existence and concentration of ground state solutions to a class of nonlocal Schrödinger equations. We consider the case in which the nonlinearity exhibits critical growth, namely in presence of the Hardy-Littlewood-Sobolev lower, as well as upper critical exponents. Assuming mild conditions on the nonlinearity and by using variational methods, we obtain existence and non-existence results. The limiting case of dimension two is also addressed. (Joint works in collaboration with: J. Zhang; J. van Schaftingen and J. Zhang; C. Tarsi and M. Yang).

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