

# SEMINÁRIO DE LÓGICA MATEMÁTICA

**Dia 25 de Fevereiro (segunda-feira), sala 6.2.33**

**14:30**

## **Classical and quantum degrees of truth: A new look at the effects of a Hilbert space**

**Roberto Giuntini  
(Università di Cagliari)**

Abstract:

We investigate certain Brouwer-Zadeh lattices that serve as abstract counterparts of lattices of effects in Hilbert spaces under the spectral ordering. These algebras, called PBZ\*-lattices, can also be seen as generalizations of orthomodular lattices and are remarkable for the collapse of three notions of "sharpness" that are distinct in general Brouwer-Zadeh lattices. We will finally present the structure theory of PBZ\*-lattices and we provide an initial description of the lattice of PBZ\*-varieties.

*Seminário financiado por Fundos Nacionais através da FCT – Fundação para a Ciência e a Tecnologia  
no âmbito do projeto UID/MAT/04561/2019*

Local: FCUL, Edif. C8, sala 6.2.33