MARTIN ARGERAMI, University of Regina

Classification of finitely generated operator systems

The classification problem for separable operator systems is commonly believed to be intractable. In recent collaboration with S. Coskey, M. Kalantar, M. Kennedy, M. Lupini, and M. Sabok, we have shown that, on the other hand, the classification problem for finitely generated operator systems is smooth. After an introduction to operator systems and completely positive maps, I will discuss Borel complexity theory, I will tell you what "smooth" means, and I will present some concrete classification results.