Cyril Houdayer

An introduction to II_1 factors


Lecture 2: Hilbert (bi)modules/ completely positive maps. Examples from group theory. Weak containment of bimodules. Basic construction and Popa's intertwining techniques.

Lecture 3: Characterization of amenability for finite von Neumann algebras. Relative property (T) for groups and von Neumann algebras. Applications to rigidity.