

Inn'formal Probability Seminar

Hanna Oppelmayer (Universität Innsbruck)

“Random von Neumann algebras”

Abstract:

In a joint work with Tattwamasi Amrutam and Yair Hartman we introduce the notion of invariant random sub-algebra (IRA). This is a probability measure on the space of all sub-von Neumann algebras of the group von Neumann algebra $L\Gamma$, where Γ denotes a countable discrete group. The well-studied IRSs (invariant random subgroups) are a special case of our notion. In this talk, I will give a gentle introduction to these concepts and show an application with amenability. No pre-knowledge on von Neumann algebras is assumed.

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