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Excursion decompositions in statistical physics

Friday, May 23, 2025 3:00 PM (1 hour)

In this talk, I will discuss excursion decompositions in various models of statistical physics. By an excursion decomposition, we mean a representation of a field as a sum $\sum_{n} \mu_n \delta_n$, where the μ_n are positive measures with disjoint supports and the δ_n are i.i.d. fair signs. The models to be discussed are both the discrete and continuous versions of the random walk, Ising model, Gaussian free field and the XOR-Ising model.

This talk is based on joint work with Tomás Alcalde, Juhan Aru, and Titus Lupu

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