

Institute for Applied Mathematics, Bonn University

Oberseminar Stochastik

Thursday, 16 July 2026, 16:30

Lipschitz-Saal (LWK 1.016)

Will Mead

Bonn University

Integrable stochastic processes in half-space

Integrable probabilistic systems have historically generated much interest not only for their elegant mathematical properties, but also for their capacity to rigorously describe real-world universal non-equilibrium phenomena. Recent years have seen a surge in interest the rich mathematical and physical properties of integrable systems with open boundaries. In this talk I will outline a systematic construction of the integrable open-boundary six-vertex model. I will demonstrate the model's spectral theory and its connections to symmetric function theory and orthogonal polynomials.