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On multiple SLEs

We discuss conformally invariant measures on families of curves known as multiple Schramm-Loewner evolutions, that naturally correspond to interfaces in critical planar lattice models with alternating ("generalized Dobrushin") boundary conditions. These measures are uniquely characterized by a natural cascade property. They are also closely related to scaling limits of connection probabilities in critical planar lattice models.

The talk is based on joint works with Hao Wu (Yau Mathematical Sciences Center, Tsinghua University) and Vincent Beffara (Université Grenoble Alpes, Institut Fourier).