Conditional quenched CLTs for random walks among random conductances.

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Consider a random walk among random conductances on the integer lattice, with unbounded jumps in one dimension, or with bounded jumps and uniform ellipticity for $d\geq 2$. We study the quenched limit law under the usual diffusive scaling of the random walk conditioned to have its first coordinate positive, and prove convergence to the Brownian meander in one dimension, or to the product of a Brownian meander and a $(d-1)$-dimensional Brownian motion for $d\geq 2$.

This talk is based on joint papers with Christophe Gallesco, Nina Gantert, Marina Vachkovskaia.