

# Biased random walk among random conductances

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We discuss the velocity of Mott variable range hopping with an external field, as well as the velocity of biased random walk among random conductances. We give results on the Einstein relation, and more generally on the derivative of the velocity as a function of the bias. In the random conductance case, we show that both monotonicity and non-monotonicity can occur.

*The talk is based on joint works with Alessandra Faggionato and Michele Salvi, and on joint work with Noam Berger and Jan Nagel.*

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