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*Invariance principles for the random conductance model*

The Random Conductance Model (RCM) is a model of a reversible or symmetric random walk in a random environment. i.i.d. weights  $\mu_e$  are assigned to the edges in  $\mathbb{Z}^d$ . A random walk  $X$  is then run, which makes its jumps with probabilities proportional to the edge weights.

This model is now quite well understood in the special cases when either the law of  $\mu_e$  is concentrated on  $[0, 1]$  or  $[1, \infty)$ . I will discuss what happens in these cases, and in particular in the case when  $E(\mu_e) = \infty$ .