# Random graphs and its applications for networks

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The Edge reinforced random walk, its non-reversible counterpart, and related topics.

I will review some recent developpments on two self-interacting processes: the Edge-Reinforced Random Walk (ERRW) and the Vertex Reinforced Random Walk (VRJP), and explain their relation with some random Schrödinger operators. I will also give a glimpse of a recent non-reversible generalization.

(Based on joint works or (work in progress) with Pierre Tarrès, X. Zeng, S. Baccalado)