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Products of positive random matrices and branching processes in random environments: limit theorems and large deviations

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In this talk, I will present some recent progress in the study of products of positive random matrices and branching processes in random environments. In particular, a Perron-Frobenius type theorem and stable convergence theorem for products of positive random matrices, and a Bahadur-Rao type precise large deviation result for multitype branching processes in random environments, will be presented. (Mainly based on joint works with Ion GRAMA and Thi Trang NGUYEN)

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