

# Continuity of Lyapunov exponents for random matrix products

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## **Abstract:**

Let  $A_1, \dots, A_n \in GL(d)$  and let  $p_1, \dots, p_n > 0$  be such that  $\sum p_i = 1$ . We consider the random product of the  $A_i$ , taken independently with probability  $p_i$ , concentrating on the Lyapunov exponents  $\lambda_1 \geq \dots \geq \lambda_d$ . We prove that the  $\lambda_j$  depend continuously on the matrices  $A_i$  and the weights  $p_i$ . This is joint work with Alex Eskin and Marcelo Viana.