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Zhenghe Zhang* (zhenghe.zhang@ucr.edu), Department of Mathematics, UC Riverside, Riverside, CA 92521. *Large deviation estimates in spectral analysis of ergodic Schrödinger operators.*

Lyapunov exponent plays a key role in the spectral analysis of 1D ergodic Schrödinger operators. In particular, some type of uniform large deviation estimates (LDT) for the Lyapunov exponent is one of the main ingredients in showing Anderson Localization and certain regularity property of the Lyapunov exponent and IDS. In this talk, I will try to describe some different mechanisms that lead to uniform LDT for different type of base dynamics. (Received February 03, 2018)