



## RANDOM SCHRÖDINGER OPERATORS AND THE INTEGRATED DENSITY OF STATES (INTRODUCTORY TALK)

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The integrated density of states (IDS) is one of the central and most heavily studied objects in the theory of random Schrödinger operators, mathematically as well as in physical applications. Mostly focusing on Anderson models, we will recall its definition, some known properties, and its relevance to spectral theory. Specifically, we will discuss the relation of the IDS to Wegner estimates and the phenomenon of Lifshits tails, which provide two of the key tools in the rigorous study of Anderson localization.