MECCANICA

A CONFERENCE IN HONOR OF SANDRO GRAFFI ON HIS 65TH BIRTHDAY

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EIGENVALUE STATISTICS FOR RANDOM SCHRÖDINGER OPERATORS

We present various estimates on the number of eigenvalues for the Anderson model in the discrete and continuous case. Emphasis is on the Wegner and Minami estimates which play important rôles in localization theory and spectral analysis for this model. They imply in particular absence of energy level repulsion in the strong localization regime; this follows from the Poisson distribution of properly rescaled eigenvalues with an intensity measure given by the density of states.