

Wegner estimate with local continuity requirements on the coupling constants

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(joint work with W. Kirsch)

The talk concerns spectral properties of random Schrödinger operators. We prove a Wegner estimate for alloy type models near the infimum of the spectrum. The single site potential is assumed to be non-positive and the coupling constants non-negative. The distribution of a single coupling constant needs to possess a bounded density only near the upper edge of its support.