

Applications of Krein Resolvent Formula to Localization on Quantum Graphs

K. Pankrashkin
joint work with F. Klopp

We study a special class of random interactions on quantum graphs, random coupling model. Using elementary facts from the theory of self-adjoint extensions we give some estimates for the spectral measures of such operators. This reduces the analysis of the localization problem to the well-known Aizenman-Molchanov method for discrete operators.