

Weyl–Titchmarsh theory for Bessel operators

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The main objective of the talk is the Weyl–Titchmarsh theory for perturbed spherical Schrödinger operators, also known as Bessel operators. It is known that one can still define a corresponding singular Weyl m -function for this type of Sturm–Liouville operators. Here we will investigate when this singular m -function is a generalized Nevanlinna function.

The talk is based on a joint work with G. Teschl and A. Sakhnovich.