

On boundary value problems for one-dimensional Schrödinger operator

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We will consider nonselfadjoint boundary value problems for one-dimensional Schrodinger operator $u'' - q(x)u$ defined on the segment $[0, 1]$. We establish sufficient conditions of summability of spectral expansions which hold for many types of boundary conditions, for instance, Birkhoff-regular but not strongly regular, irregular, multipoint boundary conditions etc. A lot of interesting examples will be considered.