



Mathematics > Spectral Theory

# Method of oscillation and spectral problem for four-order differential operator with self-similar weight

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Self-adjoint boundary problems for the equation  $y^{(4)} - \lambda \rho y = 0$  with generalized derivative  $\rho \in W_2^{-1}[0, 1]$  of self-similar Cantor type function as a weight are considered. Using the oscillating properties of the eigenfunctions, the spectral asymptotics are made more precise than in previous papers.

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