Sturm-Liouville Operators with Singularities and Generalized Nevanlinna Functions

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Following C. Fulton, for a class of Sturm-Liouville operators with a singularity at zero (which contains e.g. the Bessel operator) a special Titchmarsh–Weyl coefficient m(z) is defined, and it is shown that m(z) belongs to some generalized Nevanlinna class.