



## The spectral problem in Hilbert spaces of analytic functions

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**Abstract:** In the standard Hilbert space, the spectral problem of Hamilton operators with one degree of freedom takes the form of a lateral connection problem for functions with diverging (asymptotic) power series expansions. According to common lore, the solution would require to construct these functions on the whole real line which is usually impossible. It will be demonstrated that this brute-force approach can be avoided by employing Hilbert spaces of analytic functions.



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