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Mathematical Physics

Spectral Singularities of a General Point Interaction

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(Submitted on 10 Jul 2011)

We study the problem of locating spectral singularities of a general complex point interaction with a support at a single point. We also determine the bound states, examine the special cases where the point interaction is P-, T-, and PT-symmetric, and explore the issue of the coalescence of spectral singularities and bound states.

Comments:	11 pages
Subjects:	Mathematical Physics (math-ph); Quantum Physics (quant-ph)
Journal reference:	J. Phys. A: Math. Theor. 44, 375302 (2011)
DOI:	10.1088/1751-8113/44/37/375302
Cite as:	arXiv:1107.1875 [math-ph]
	(or arXiv:1107.1875v1 [math-ph] for this version)

Submission history

From: Ali Mostafazadeh [view email] [v1] Sun, 10 Jul 2011 16:33:09 GMT (454kb)

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