Mathematical Physics

Resolutions of Identity for Some Non-Hermitian Hamiltonians. II. Proofs

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(Submitted on 29 Jul 2011 (v1), last revised 5 Dec 2011 (this version, v3))

This part is a continuation of the Part I where we built resolutions of identity for certain non-Hermitian Hamiltonians constructed of biorthogonal sets of their eigen- and associated functions for the spectral problem defined on entire axis. Non-Hermitian Hamiltonians under consideration are taken with continuous spectrum and the following cases are examined: an exceptional point of arbitrary multiplicity situated on a boundary of continuous spectrum and an exceptional point situated inside of continuous spectrum. In the present work the rigorous proofs are given for the resolutions of identity in both cases.

Subjects:	**Mathematical Physics (math-ph)**; High Energy Physics - Theory (hep-th); Nuclear Theory (nucl-th); Quantum Physics (quant-ph)
Journal reference:	SIGMA 7 (2011), 112, 16 pages
DOI:	10.3842/SIGMA.2011.112
Cite as:	**arXiv:1107.5916 [math-ph]**
	(or **arXiv:1107.5916v3 [math-ph]** for this version)

Submission history

From: Alexander A. Andrianov [view email]
[v1] Fri, 29 Jul 2011 10:04:41 GMT (16kb)
[v2] Sat, 6 Aug 2011 10:50:06 GMT (16kb)
[v3] Mon, 5 Dec 2011 04:10:42 GMT (14kb)

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