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Inverse problems for Jacobi operators II: Mass perturbations of semi-infinite mass-spring systems

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(Submitted on 22 Jun 2011 (v1), last revised 10 Aug 2012 (this version, v3))

We consider an inverse spectral problem for infinite linear mass-spring systems with different configurations obtained by changing the first mass. We give results on the reconstruction of the system from the spectra of two configurations. Necessary and sufficient conditions for two real sequences to be the spectra of two modified systems are provided.

Comments: 23 pages, 2 figures. Typos were corrected, two remarks

were added

Subjects: Mathematical Physics (math-ph) MSC classes: 34K29, 47A75, 47B36, 70F17 Cite as: arXiv:1106.4598 [math-ph]

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