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Three particle resonance in lattice ϕ^4 theory

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We study a three-particle resonance in Euclidean Lattice ϕ^4 theory with two fields, having different masses and an interaction that makes the heavy field decay into three light. We observe the avoided-level crossings characteristic of a resonance and analyse the data with two formalisms FVU and RFT with an aim to determine the mass and the width of the resonance.

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