

**von Brentano, P.; Jolos, R. V.; Weidenmüller, H. A.**  
**Mixing of bound and unbound levels.** (English) Zbl 0994.81046  
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**Summary:** We consider a system of two discrete levels coupled to a channel. The levels are close to the channel threshold. We investigate the influence of the channel threshold on positions and widths of the levels. We introduce a simple parameterization of the energy dependence of the coupling matrix elements. Simple examples demonstrate the importance of this dependence.

**MSC:**

**81Q99** General mathematical topics and methods in quantum theory

**Keywords:**

channel coupling; level widths; energy dependence

**Full Text:** [DOI](#)

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