

Cornell University Library

Search or Arti

arXiv.org > math > arXiv:1107.3629

Mathematics > Analysis of PDEs

Stability of bound states of Hamiltonian PDEs in the degenerate cases

Masaya Maeda

(Submitted on 19 Jul 2011)

We consider a Hamiltonian systems which is invariant under a one-parameter unitary group. We give a criterion for the stability and instability of bound states for the degenerate case. We apply our theorem to the single power nonlinear Klein-Gordon equation and the double power nonlinear Schr\"odinger equation.

Comments: 16 pages Subjects: Analysis of PDEs (math.AP) Cite as: arXiv:1107.3629 [math.AP] (or arXiv:1107.3629v1 [math.AP] for this version)

Submission history

From: Masaya Maeda [view email] [v1] Tue, 19 Jul 2011 05:56:10 GMT (14kb)

Which authors of this paper are endorsers?

Link back to: arXiv, form interface, contact.

icle-id	(<u>Help</u> <u>Advanced search</u>
	All papers 🚽 Go!
	Download:
	 PDF PostScript Other formats
	Current browse context: math.AP < prev next > new recent 1107
	Change to browse by: math
	References & CitationsNASA ADS
	Bookmark(what is this?)