Cornell University
Library

We gratefully acknowledge support from
the Simons Foundation
and member institutions

arXiv.org > hep-th > arXiv:1106.1602

Search or Article-id

(Help | Advanced search)

All papers   Go!

High Energy Physics - Theory

Defects in the discrete non-linear Schrodinger model

Anastasia Doikou

(Submitted on 8 Jun 2011 (v1), last revised 5 Sep 2011 (this version, v2))

The discrete non-linear Schrodinger (NLS) model in the presence of an integrable defect is examined. The problem is viewed from a purely algebraic point of view, starting from the fundamental algebraic relations that rule the model. The first charges in involution are explicitly constructed, as well as the corresponding Lax pairs. These lead to sets of difference equations, which include particular terms corresponding to the impurity point. A first glimpse regarding the corresponding continuum limit is also provided.

Submission history

From: Anastasia Doikou [view email]

[v1] Wed, 8 Jun 2011 17:33:38 GMT (14kb)

[v2] Mon, 5 Sep 2011 11:36:18 GMT (15kb)

Which authors of this paper are endorsers?

Link back to: arXiv, form interface, contact.