

Linearizability and fake Lax pair for a consistent around the cube nonlinear non-autonomous quad-graph equation.

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Abstract

We discuss the linearization of a non-autonomous nonlinear partial difference equation belonging to the Bell classification of quad-graph equations consistent around the cube. We show that its Lax pair is fake. We present its generalized symmetries which turn out to be non-autonomous and depending on an arbitrary function of the dependent variables defined in two lattice points. These generalized symmetries are differential difference equations which, in some case, admit peculiar Bäcklund transformations.

1 Introduction.

Symmetries and commuting flows have been in a way or in another at the base of integrability. Bäcklund transformations and nonlinear superposition rules [22, 29] paved the way to the discretization of integrable systems.

A first version of the integrability criteria denoted Consistency Around the Cube (CAC) can be found in the work of Doliwa and Santini [13].

In recent years CAC has been a source of many results in the classification of nonlinear difference equations. Its importance relies in the fact that provides Bäcklund transforms [7, 11, 27, 28] and as a consequence the existence of a zero curvature representation or Lax pairs, which, as it is well known [36] are associated to both linearizable and integrable equations.

The first attempt to carry out a classification of partial difference equations using the CAC condition has been presented in [1] assuming that the equations on all faces of the cube were the same form. The result is a class of discrete equations formed by systems living on quad-graphs, whose basic building blocks are equations on quadrilaterals of the type

$$A(x, x_1, x_2, x_{12}; \alpha_1, \alpha_2) = 0, \quad (1)$$

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Sasha Hu



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