

Lax representations and exotic cohomology of symmetry algebras of PDEs

Oleg I. Morozov
Wydział Matematyki Stosowanej AGH

Abstract:

The talk will describe the technique of constructing Lax representations for partial differential equations via non-central extensions of their contact symmetry algebras. The examples will include Lax representations with non-removable parameters, two-component generalizations, and integrable hierarchies associated to some PDEs.