

## Rota-Baxter operators and elliptic curves

Cristian Anghel

*"Simion Stoilov" Institute of Mathematics of Romanian Academy, Bucharest, Romania*  
e-mail: Cristian.Anghel@imar.ro

The Rota-Baxter operators have a long history, with many applications in both pure mathematics and theoretical physics. After a short review of this subject, I will present a class of Rota-Baxter operators coming from the world of vector bundles over elliptic curves. If time permits we will see also some connections with modular forms/functions.