

8th International Conference on Symmetries and Integrability of Difference
Equations (SIDE8) **June 22–28, 2008**
8^e Conférence internationale “Symétrie et intégrabilité des équations aux
différences” (SIDE8) **22–28 juin, 2008**

Conservation laws for difference equations

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Abstract

This talk describes some recent work on conservation laws. In particular, we discuss differences between the theory of conservation laws for difference equations and differential equations. Integrable quad-graph equations are used as examples (building on our earlier classification of the low-order conservation laws for the Adler–Bobenko–Suris hierarchy).