

1058-37-68

Adam Doliwa* (doliwa@matman.uwm.edu.pl), Department of Mathematics and Computer Science, University of Warmia and Mazury, Zolnierska 14, 10-561 Olsztyn, Poland. *On geometric integrability of discrete systems.*

I will report on recent advances in geometric description of integrability of partial difference equations, and the role of incidence geometry theorems in the scheme. In particular, I will present the relation of the quadrilateral lattice maps and the corresponding discrete Darboux equations with the so-called Desargues maps and the non-commutative Hirota-Miwa system. (Received February 01, 2010)