MS60
Algebraic aspects of integrable systems and applications--Part II of IV

2:00 PM – 4:00 PM
Room: Club Room – Concourse (1st Floor)

For Part I, see MS52

For Part III, see MS68

Integrable system has been studied extensively in related to many fields in both pure mathematics and applied mathematics. Meanwhile, the intgrable system also promises applications ranging from water waves, nonlinear optics to numerical algorithms.

The purpose of this special session is to bring together researchers from integrable system in both continuous and discrete integrable system to discuss recent advances on algebraic aspects of integrable systems and their applications

Organizer: Bao-Feng Feng
University of Texas – Pan American, USA
Xing-Biao Hu
Chinese Academy of Sciences, China
Kenichi Maruno
University of Texas – Pan American, USA
Jonathan Nimmo
University of Glasgow, Scotland, United Kingdom

2:00-2:25 On Exact Solutions to Lattice Equations abstract
        Daisuke Takahashi, Waseda University, Japan
2:30-2:55 Constructing probabilistic particle cellular automata from fundamental diagrams abstract
        Junta Matsukidaira, Ryukoku University, Japan
3:00-3:25 Soliton Solutions to an extended Box and Ball system equation abstract
        Hidetomo Nagai, Tokai University, Japan
3:30-3:55 Lattice Boussinesq equation and convergence acceleration algorithms abstract
        Yi He, Chinese Academy of Sciences, China