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**Jonathan D.H. Smith\*** (jdhsmith@iastate.edu). *Quantum quasigroups, Belousov's Theorem, Yang-Baxter, and bimagma isotopy.*

Quantum quasigroups are self-dual objects that provide a general framework for the nonassociative extension of quantum group techniques. In this talk, it will be shown how the classical theorem of Belousov on the isotopy of distributive quasigroups and commutative Moufang loops may be reinterpreted to yield new solutions of the quantum Yang-Baxter equation. In particular, a novel concept of principal bimagma isotopy is introduced. (Received August 14, 2016)