

Cycle sets: basic results and some developments

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In 1992, Drinfeld [2] posed the question of finding all set-theoretic solutions of the quantum Yang-Baxter equation, an important equation coming from theoretical physics. In 2005, Rump [3] defined the non-degenerate cycle sets, a new algebraic structure, in bijective correspondence with the involutive non-degenerate set-theoretic solutions. In the first part we present the basic theory related to cycle sets [3, 5]; then we focus our attention on particular cycle sets having an underlying group structure [4, 1].

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