

1079-81-289

Abdenacer Makhlouf*, 4 rue des Frères Lumière, 68093 Mulhouse, France. *Generalized Hopf algebras and Yang-Baxter equations.*

The purpose of my talk is to summarize recent developments, provide some key constructions and examples of Hom-associative and Hom-Hopf algebraic structures. The main feature of Hom-algebras is that the classical identities are twisted by a homomorphism. Moreover we show the connections to Yang-Baxter equations. (Received January 17, 2012)