Graduate Seminar in Mathematics

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Associative vs Non-Associative Algebras

Abstract:

Lie algebras are known to be non-associative algebras but for every Lie algebra L one can construct an associative algebra U(L) in a universal way so that L embed into U(L). It is of interest to know what properties of L are captured by U(L). In this talk, I will introduce Lie algebras and their enveloping algebras and will try to address some of the relations between L and U(L).