Gradings, graded polynomial identities and Specht property in non-associative PI-algebras

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In this talk, I will speak about gradings, graded polynomial identities and Specht property in non-associative PI-algebras. In few words, Specht property is a local version for Specht problem. Different from the associative case, for non-associative algebras there is no general result for the Specht problem not even when the characteristic of the field is 0. I will highlight the recent results obtained in collaboration with my PhD student Pedro Moraes about the algebra of the upper triangular matrices of order 2 in fields of characteristic 2.