Polynomial identities for Leibniz Algebras

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Abstract. A Leibniz algebra over a field is a non-associative algebra with a product satisfying the Leibniz identity $(xy)z = (xz)y + x(yz)$. Leibniz algebras (sometimes called a Loday algebra) can be seen as a generalization non-anticommutative of Lie algebras. Leibniz algebras appear to be related in a natural way to several topics such as differential geometry, homological algebra, algebraic K-theory etc. In this talk we speak about polynomial identities for concrete Leibniz algebras of low dimension.