

Distinguished Colloquium

Classification of the finite dimensional simple Lie
algebras of characteristic $p > 3$

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Abstract

Recently Helmut Strade and I announced that every finite dimensional simple Lie algebra over an algebraically closed field of characteristic $p > 3$ is either classical (that is, comes from characteristic 0) or a filtered Lie algebra of Cartan type or one of the Melikian algebras of characteristic 5. In my talk I will give a brief description of all Lie algebras mentioned above and outline some methods used in the Classification Theory.