

CLASSIFICATION AND IDENTIFICATION OF LIE ALGEBRAS

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Classification and Identification of Lie Algebras

- 1.1. Introduction and Motivation.
- 1.2. Basic concepts of Lie algebra theory.
- 1.3. Invariants of the coadjoint representation of a Lie algebra.
- 1.4. Recognition of a Lie algebra given by its structure constants.
- 1.5. Nilpotent Lie algebras.
- 1.6. Classification of solvable Lie algebras with a given nilradical.
- 1.7. Levi decomposable algebras.
- 1.8. Low dimensional Lie algebras ($\dim L < 7$) 1.9. Conclusions