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Almost Horospherical Subalgebras of Semisimple Lie Algebras

It is well known that the maximal subalgebras of a semisimple Lie algebra $\mathfrak{g}$ are certain semisimple subalgebras and the maximal parabolic subalgebras. This paper provides a classification of subalgebras $\mathfrak{h} \subset \mathfrak{g}$ such that every subalgebra strictly containing $\mathfrak{h}$ is horospherical, i.e., contains a maximal unipotent subalgebra of $\mathfrak{g}$.

Keywords: Lie algebras, parabolic induction.

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