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Non-Solvable subalgebras of $gl(4, R)$

In this talk, I will present all the simple, then semi-simple, subalgebras of $gl(4, R)$. Each such semi-simple subalgebra acts by commutator on $gl(4, R)$. In each case the invariant subspaces are found and the results used to determine all possible subalgebras of $gl(4, R)$ that are not solvable