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Ryad A Ghanam* (ghanam@pitt.edu), 1150 Mt. Pleasant Rd, Dept. of Mathematics,
University of Pittsburgh at Greensburg, Greensburg, PA 15601. *Representations of
low-dimensional Lie algebras.*

In this talk we will report on progress in the problem of finding linear representations for low-dimensional lie algebras. For each Lie algebra g of dimension less than or equal to 6, we will give a matrix Lie group whose Lie algebra is the given algebra in the list. We will also give a representation of the Lie algebra in terms of vector fields. In addition, progress has been made on the 7-dimensional nilpotent Lie algebras. (Received August 27, 2005)