

Title: Graded Lie Algebras and Homogeneous Einstein Metrics

ABSTRACT: Recently graded Lie algebras have played a central role in the construction of Einstein metrics on manifolds which have a transitive solvable group of isometries. On a different front there has been a renewed interest in Abelian ideals in Borel subalgebras of complex simple Lie algebras. In this talk we will consider curvature conditions that relate both topics.