

Meeting: 1001, Evanston, Illinois, AMS CP 1, Session for Contributed Papers

1001-53-68 **Thomas Edward Poole*** (T.Poole@latrobe.edu.au), Australia. *Classification of simply connected 4-dim Einstein Lie groups.*

Lie groups which are provided with a Riemannian metric invariant under left translations form some of the nicest examples of Riemannian manifolds. Such Lie groups are called Einstein if their metrics have constant Ricci curvature. The classification of 4-dim Einstein homogenous spaces was first carried out by G.Jensen. In my talk I will present a simplified version of Jensen's classification for the case where the homogeneous spaces are simply connected Lie groups. The result of such a classification is a complete description of simply connected 4-dim Einstein Lie groups in terms of their Lie algebras. (Received August 06, 2004)