

Meeting: 998, Houston, Texas, SS 20A, Special Session on Differential Geometry

998-53-405 **Raul Quiroga-Barranco*** (quiroga@math.cinvestav.mx). *PseudoRiemannian manifolds with a simple group of isometries*. Preliminary report.

In this preliminary report we will consider compact pseudoRiemannian manifolds M that admit an isometric action of a non-compact simple Lie group G . We will show that if the geometries of both M and G are related in a certain sense, then M can be described in terms of G . (Received March 02, 2004)