

Meeting: 998, Houston, Texas, SS 11A, Special Session on Algebraic Topology

998-55-401 **Guillermo Moreno*** (gmoreno@math.cinvestav.mx), Apartado Postal 14-740, 07300 Mexico city, Mexico. *New G_2 spaces.*

The group of automorphism of the Cayley octonion numbers A_3 is known to be isomorphic to G_2 the exceptional Lie group of rank two. In this, we look at the space of algebra monomorphisms from A_3 to A_n for $n > 3$ to produce G_2 spaces. Here A_n is the Cayley-Dickson algebra on R^{2^n} . (Received March 02, 2004)