Analele **Univ**ersității **București**, **Mat**ematică Anul LIV(2005), pp. 161–170

The Space of Real Quadratic Forms

Kostake TELEMAN

September 3, 2004

Abstract - We give some properties of the space of real quadratic forms of fixed rank N and fixed index r, which are invariant with respect to the natural action of the linear group $SL(N, \mathbb{R})$.

 ${\bf Key\ words\ and\ phrases}$: Homogeneous fibre bundle, connection, symmetric space.

Mathematics Subject Classification (2000) : 53A55,53C30,53C35