

Analele Universității București, Matematică
Anul LII, Nr. 1(2003), pp. 105–118

The manifold of Euclidian inner products

Adriana TURTOI

July 23, 2002

Abstract : In this paper we shall study the manifold $\mathcal{S}(M)$ of all Euclidean inner products given on various tangent spaces of a n -dimensional real differentiable manifold M .

Key words and phrases : fibre bundle, Euclidean inner product, connection, Hermitian inner product, submanifold

Mathematics Subject Classification (2000) : 53C15, 53B35, 53C05