ICM 1998, Berlin, Aug. 18–27

Abstracts of Short Communications and Posters

Section:

5. Differential Geometry and Global Analysis

1991 MS Classification: 53C15, 53C30, 53C35
Gorodski, Claudio, University of São Paulo, Brazil
Contact Sub-Riemannian Symmetric Spaces
Sub-Riemannian geometry is the geometry of non-integrable k-plane distributions $\mathcal{D}$ on n-manifolds M, $1 < k < n$, where $\mathcal{D}$ is equipped with a positive definite metric g. We classify the simply-connected contact sub-Riemannian symmetric spaces (these belong to a class of sub-Riemannian manifolds $(M, \mathcal{D}, g)$ with special symmetry properties).
Reference: P. Bieliavsky, and E. Falbel, and C. Gorodski, The Classification of Simply-Connected Contact Sub-Riemannian Symmetric Spaces, to appear in *Pacific J. Math.* (1998).