

大阪市立大学数学研究所 微分幾何学セミナー

Osaka City University Advanced Mathematical Institute OCAMI One Day Meeting on Differential Geometry

日程：平成22年8月30日(月)

場所：大阪市立大学理学部棟3階 数学講究室(3040室)

プログラム：

10:40-12:10

講演者：Professor Jürgen Berndt (King's College London, UK)

タイトル：Hypersurfaces in Symmetric Spaces

アブストラクト：In this talk I will present a survey about some solved and unsolved problems related to hypersurfaces in symmetric spaces. Particular emphasis will be on homogeneous hypersurfaces, and hypersurfaces with constant principal curvatures or with some other geometric properties. Much of this is related to ongoing joint work with Jose Carlos Diaz Ramos, Young Jin Suh and Hiroshi Tamaru.

13:30-14:30

講演者：坊向 伸隆氏 Dr. Nobutaka Boumuki (大阪市立大学数学研究所 OCAMI)

タイトル：Reflective Submanifolds of Affine Symmetric Spaces

アブストラクト：In this talk I will determine reflective submanifolds of simple affine symmetric spaces G/H ; and in addition, I will clarify relation between simple pseudo-Hermitian symmetric spaces G/R and simple para-Hermitian symmetric spaces G/U , in terms of Lagrangian reflective submanifolds (i.e., real forms) of G/R and para-complex reflective submanifolds of G/U .

15:00-16:30

講演者：Professor Owen Dearricott (U. California Riverside, USA)

タイトル：Positive curvature on 3-Sasakian 7-manifolds

アブストラクト：The few manifolds of positive sectional curvature known arise as the orbit spaces of free isometric actions on Lie groups. We discuss a very different sort of metric of positive curvature that arises on 3-Sasakian 7-manifolds and a new manifold of positive sectional curvature that arises in this way. This example is deeply connected to curvature operators on self-dual Einstein orbifolds and conformal geometry in dimension 4.

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