ISOMETRIC REEB FLOW AND CONTACT HYPERSURFACES IN HERMITIAN SYMMETRIC SPACES

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In this talk, first we introduce some notions of isometric Reeb flow and contact for real hypersurfaces in Kaehler manifolds, in particular, complex two-plane Grassmannians $G_2(C^{m+2})$ and complex quadrics $Q^m$, and give some back grounds for the study of such hypersurfaces until now.

Next, by using Lie algebraic method and root systems, we give a new classification of real hypersurfaces with isometric Reeb flow in Hermitian symmetric spaces including $G_2(C^{m+2})$ and $Q^m$ and give some conjectures for the classification of contact hypersurfaces in Hermitian symmetric spaces.

References