

CR GEOMETRY AND RIGIDITY OF CR MAPS BETWEEN HOMOGENEOUS CR MANIFOLDS

ABSTRACT. CR manifold is a generalization of real hypersurfaces in a complex space. In this talk, we briefly investigate CR structure on the closed $SU(\ell, m)$ -orbits in Grassmannian. We introduce a differential geometric method for the rigidity of CR maps between them. As an application, we show the rigidity of proper holomorphic maps between flag domains of type I in Grassmannian.