

CR-Structure and Levi Form on Real Hypersurfaces of Kählerian Manifolds

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ABSTRACT

In this talk, we study pseudo-Hermitian geometry of real hypersurfaces in Kählerian manifolds. Real hypersurfaces in Kählerian manifolds have an integrable CR-structure, but the Levi form is not guaranteed to be non-degenerate, in general. In this context, Levi-flatness and Levi-umblicity of real hypersurfaces in Hermitian symmetric spaces are considered, and then the recent results are to be introduced.