Twisted Warped Product *CR*-submanifolds in Kaehler manifolds

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Abstract

Recently B.Y. Chen introduced two types of warped product *CR*-submanifold in Kaehler manifolds and he got a lot of interesting properties in this submanifold. In the present talk, we define twisted warped product *CR*-submanifolds in Kaehler manifolds. We prove several fundamental properties of these submanifolds and establish a general inequality for the length of the second fundamental form. Finally, we consider the equality case of this inequality.