



Seminário de Geometria Diferencial & Análise Geométrica

Título: Holomorphicity of real Kaehler submanifolds

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Resumo: I will talk on a recent joint paper with S. Chion and M. Dajczer.

Let $f: M^{2n} \rightarrow \mathbb{R}^{2n+p}$ denote an isometric immersion of a Kaehler manifold of complex dimension $n \geq 2$ into Euclidean space with codimension p . If $2p \leq 2n - 1$, we show that generic rank conditions on the second fundamental form of the submanifold imply that f has to be a minimal submanifold. In fact, for codimension $p \leq 11$ we prove that f must be holomorphic with respect to some complex structure in the ambient space.

Local: Sala da Pós-Graduação

Data: Quinta-feira, 19 de dezembro de 2019

Hora: 09h30