EXTENSION D’HOMÉOMORPHISMES CR ENTRE VARIÉTÉS POLYNÔMIALEMENT RIGIDES

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Abstract

Let $f : M \to M'$ be a CR homeomorphism between two minimal, rigid polynomial varieties of $\mathbb{C}^n$ without holomorphic curves. We show that $f$ extends biholomorphically in a neighborhood of $M$ if $f$ extends holomorphically in a neighborhood of a point $p_0 \in M$ or if $f$ is of class $C^1$. In the other hand, in case $M$ and $M'$ are two algebraic hypersurfaces, we obtain the extension without supplementary conditions.

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