

PROPER HOLOMORPHIC MAPPINGS BETWEEN RIGID POLYNOMIAL DOMAINS IN \mathbb{C}^{n+1}

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Abstract —

We describe the branch locus of proper holomorphic mappings between rigid polynomial domains in \mathbb{C}^{n+1} . It appears, in particular, that it is controlled only by the first domain. As an application, we prove that proper holomorphic self-mappings between such domains are biholomorphic.

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