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Bounded connected open subsets of $\mathbb{C}^n$

(H Cartan) Let $\Omega \subseteq \mathbb{C}^n$ be a connected bounded open subset and

$$F : \Omega \rightarrow \Omega$$

be holomorphic. If for some $p \in \Omega$ we have $F(p) = p, \mathfrak{D}_p F = \text{Id}$, then $F \equiv \text{Id}_\Omega$.

Without loss of generality, let $p = 0$. Then there exists $0 < r_1, r_2 < \infty$ such that

$$r_1 D^n \subseteq \Omega \subseteq r_2 D^n$$

• ...

Current note has 0 direct children and 0 total descendants.

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And it has 39 siblings.

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