

On the commuting endomorphisms of P^k

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Abstract

This a joint work with Nessim Sibony. We give a characterization of commuting holomorphic endomorphisms f_1, f_2 of degrees $d_1 > 1$ and $d_2 > 1$ such that $d_1^n \neq d_2^m$ for all $n \geq 1$ and $m \geq 1$. We also classify the endomorphisms of P^2 satisfying the same conditions.