

Question Sheet

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- Title: Recent results on the Kobayashi and Green-Griffiths-Lang conjectures.

This is about Lemma 12.12 at page 64. To fix ideas, assume $Z = \mathbb{P}^{n+1}$ and $A = \mathcal{O}_{\mathbb{P}^{n+1}}(1)$. According to page 70, we have

$$c = n, \quad N = n(n+1), \quad B = \binom{N+1}{n}.$$

In the –5th line of the page:

Question. How to understand “*Changing generically the τ_j and τ_I ’s means composing Φ with a generic automorphism $g \in \text{Aut}(\mathbb{P}^{N+B})$ ”?*

Here the number of parameters in $\text{Aut}(\mathbb{P}^{N+B})$ is

$$\left(n^2 + n + 1 + \binom{n^2 + n + 1}{n} \right)^2 - 1,$$

which is much larger than the number of parameters in the τ_j and τ_I , equal to

$$\left(n^2 + n + 1 + \binom{n^2 + n + 1}{n} \right) (n + 2).$$