

Foliations tangent to algebraic \mathbb{C}^* -actions

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Resumo/Abstract:

This talk is about (families of) foliations on \mathbb{P}^n tangent to a homogeneous vector field $S = \sum_{i=0}^n \lambda_i x_i \partial / \partial x_i$, where $\lambda_i \in \mathbb{Z}$. The focus will be on the description of some components of the space of foliations on \mathbb{P}^n , where the generic element is tangent to S . We also give some examples of such foliations where its geometry is known.