

Deformation of free morphisms along foliations

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Resumo/Abstract:

A foliation on a projective manifold X naturally induces a foliation on the space of morphisms from the projective line to X : the so called tangential foliation. When the tangential foliation has positive dimensional leaves, in particular when it has non-algebraic leaves, there are strong restrictions on the structure of the original foliation. In this talk it will be shown how this can be explored to provide a rough classification of codimension one foliations of degree three on the 3-dimensional projective space.