

About foliations with a unique singular point

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A foliation on the complex projective plane is determined by its singular subscheme. Jouanolou proved that there is a bound on the number of singular points. In 2023, Cerveau and Déserti proved that, under certain conditions, any foliation on the complex projective plane can be transformed into one with a unique singular point. In this talk, I will present some results about foliations with a unique singular point using GIT.

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