

# Numbers for foliations with higher singularities

Israel Vainsencher

A general holomorphic foliation of degree  $d$  in  $CP^2$  has  $d^2 + d + 1$  singularities all non-degenerate. We address the question of finding the degrees of the loci of foliations with higher and/or special singularities e.g. radial singularities -these occur in codimension 3. We also study the situation in the presence of an invariant curve. Joint with Viviana Ferrer.