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Singular foliations with trivial canonical class

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This paper is devoted to describe the structure of singular codimension one foliations with numerically trivial canonical bundle on projective manifolds. To achieve this goal we study the reduction modulo \$p\$ of foliations, establish a criterium for uniruledness of projective manifolds, and investigate the deformation of free morphisms along foliations. This paper also contains new information about the structure of codimension one foliations on \$\P^n\$ of degree smaller than or equal to \$2n-3\$.

- Comments: 48 pages. Major revision. The content of Sections 4 and 5 of the previous versions have been moved to 'The classification of foliations with trivial canonical bundle on Fano 3-folds'
- Subjects: Algebraic Geometry (math.AG); Complex Variables (math.CV); Dynamical Systems (math.DS)
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