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**Foliations with radial Kupka set and pencils of Calabi-Yau hypersurfaces.**  
(English)

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Summary: We show that holomorphic singular codimension-one foliations of the complex projective space with a Kupka singular set of radial type and verifying some global hypotheses have rational first integral. The generic elements of such pencils are Calabi-Yau.

*Keywords* : holomorphic foliation; fibration; Calabi-Yau manifold

*Classification* :

\***37F75** Holomorphic foliations and vector fields

**14D05** Structure of families