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**0792.58001****Mendes, L.G.; Sebastiani, M.****Sur la densité des systèmes de Pfaff sans solution algébrique. (On the density of the Pfaffian systems without algebraic solution).** (French)

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[http://www-fourier.ujf-grenoble.fr/AIF/aif\\_1994.html](http://www-fourier.ujf-grenoble.fr/AIF/aif_1994.html)

Let  $M$  be an analytic surface. *A. Lins Neto* [J. Differ. Geom. 26, 1-31 (1987; Zbl 0625.57012)] introduced a topology in the set  $\Pi(M)$  of holomorphic foliations with isolated singularities on  $M$ .

$\Omega \in \Pi(M)$  is “rigid” if it is an isolated point of  $\Pi(M)$ . In our paper it is proved that if  $M$  is a projective rational surface non-isomorphic to  $\mathbb{P}_2(\mathbb{C})$  then there exists  $\Omega \in \Pi(M)$  rigid and having algebraic leaves.

The case of  $\mathbb{P}_2(\mathbb{C})$  has been considered by *J. P. Jouanolou* [‘Equations de Pfaff algébriques’ (1979; Zbl 0477.58002)].

*L.G.Mendes and M.Sebastiani (Porto Alegre)**Keywords* : holomorphic foliations; projective rational surface*Classification* :

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57R30 Foliations; geometric theory

32S65 Singularities of holomorphic vector fields

32S05 Local singularities (analytic spaces)

37C85 Dynamics of group actions other than  $\mathbb{Z}$  and  $\mathbb{R}$ , etc.

Cited in ...