

Item: 1 of 1 | [Return to headlines](#)[MSN-Support](#) | [Help](#)Select alternative format: [BibTeX](#) | [ASCII](#)

MR1262888 (95f:58008)**[Mendes, L. G.](#); [Sebastiani, M.](#)****Sur la densité des systèmes de Pfaff sans solution algébrique. (French. English, French summaries) [On the density of Pfaff systems with no algebraic solution]***Ann. Inst. Fourier (Grenoble)* **44** (1994), *no. 1*, 271–276.[58A17 \(32L30\)](#)[Journal](#)[Article](#)[Doc
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Let M be an analytic surface. A. Lins Neto [J. Differential Geom. **26** (1987), no. 1, 1–31; [MR0892029 \(88f:32047\)](#)] introduced a topology on 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 not isomorphic to $P_2(\mathbf{C})$ then there exists $\Omega \in \Pi(M)$ rigid and having algebraic leaves. The case of $P_2(\mathbf{C})$ has been considered by J. P. Jouanolou [*Équations de Pfaff algébriques*, Lecture Notes in Math., 708, Springer, Berlin, 1979; [MR0537038 \(81k:14008\)](#)].

Reviewed by *Autorreferat* (Zbl 792:58001)

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