

Non periodic leaves of codimension one foliations

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“Non periodic manifolds with finitely many ends cannot be realized as proper leaves of codimension one C^2 foliations. In lower regularity we provide examples of such non periodic manifolds that can be realized as proper leaves. The given non periodic examples are repetitive leaving open the non repetitive case. These are, as far as we know, the first examples of this kind. Moreover, with some additional work, we can provide examples of manifolds that cannot be realized as leaves of any codimension one C^2 foliation on a compact manifold but can be realized as leaves of codimension two C^2 foliations, this is again the first example of this kind.”

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