"H-principle for 4-dimensional contact foliations"

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Abstract:

In this talk we shall introduce the notion of contact foliation and show that every homotopy class of tangential plane fields in a codimension-1 foliation in a 4-manifold can be represented by such a contact foliation. The proof follows Eliashberg's analogous result for 3-dimensional contact manifolds. Joint work with R. Casals and F. Presas.