Workshop CAST 2020

Antwerp (Belgium), Feb 6-8, 2020

Deforming foliations into contact structures in large dimensions

Gaël Meigniez

(Université de Bretagne-Sud)

A classical construction by Eliashberg-Thurston allows one, in dimension 3, to deform many foliations of codimension 1 into contact structures.

I shall explain how the like can be done in higher dimensions; the methods are more elaborate, using modern works by Eliashberg-Murphy and Borman-Eliashberg-Murphy, as well as a foliated analogue of Morse theory, in order to construct a conformal symplectic structure on the leaves. This is a joint work with M. Bertelson.