On Fillability of Higher Dimensional Contact Manifolds Supporting Iterated Planar Open Books.

The Weinstein conjecture asserts that certain vector fields carry closed orbits. It was proven for all closed 3-dimensional manifolds by Taubes, but it is still open in higher dimensions. In this talk, we show that a \((2n + 1)\)-dimensional contact manifold supporting an iterated planar open book decomposition, which will be defined in the talk, satisfies the Weinstein conjecture. (Received September 20, 2016)