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Bahar Acu* (bacu@usc.edu), 3620 S Vermont Ave KAP 104, Los Angeles, CA 90089-2532. *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)