

1125-53-175

Bahar Acu* (bacu@usc.edu), 3620 S Vermont Ave KAP 104, Los Angeles, CA 90089-2532. *On Fillability of Higher Dimensional Contact Manifolds and Their Symplectic Mapping Class Group Relations.*

In this talk, we will examine filling properties of higher dimensional contact manifolds and show that the symplectization of a $(2n+1)$ -dimensional contact manifold given by an iterated planar open book decomposition, which will be defined in the talk, can be foliated by a special class of planar curves. We will also examine symplectomorphisms of higher dimensional symplectic manifolds yielding a generalization of the classical chain relation on surfaces. The second part of the talk is joint work with Russell Avdek. (Received September 20, 2016)