

1129-53-219

**Jo Nelson\***, mathochist@gmail.com, and **Katherine Christianson**. *Symplectic embeddings of four-dimensional polydisks into balls.*

I will talk about recent joint work with Katherine Christianson, which yields new sharp obstructions to symplectic embeddings of the four-dimensional polydisk into the ball, extending results of Hind-Lisi, Hutchings, and Schlenk. Our proof relies on connections between combinatorial toric geometry and embedded contact homology by way of a necessary criterion for one "convex toric domain" to symplectically embed into another, which was introduced by Hutchings in 2015. (Received March 16, 2017)