## 1073-51-72 Sean V. Droms\* (svd5d@virginia.edu). Constructions of Stein Fillings.

We reprove a result due to Akhmedov, Etnyre, Mark and Smith: using Heegaard-Floer homology, we show the existence of infinitely many simply-connected, homeomorphic but not diffeomorphic Stein fillings of a particular contact 3-manifold  $(M, \xi)$ . We will discuss possible extensions to this result with an eye towards decreasing the Betti numbers of M or the page genus of the induced compatible open book decomposition. (Received July 26, 2011)