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**Samuel T Lisi\*** ([stlisi@olemiss.edu](mailto:stlisi@olemiss.edu)), University of Mississippi, PO Box 1848, Oxford, MS 38677, and **Jeremy Van Horn-Morris** and **Chris Wendl**. *Spinal open book decompositions and symplectic fillings*. Preliminary report.

I will discuss the notion of spinal open book decomposition, which is a partial generalization of Giroux's open book decomposition for a contact 3-manifold. I will present some results on fillings of contact manifolds that admit spinal open book decompositions with prescribed combinatorics, giving a classification of fillings of Lutz's  $S^1$  invariant contact structures on circle bundles. Time permitting, I will also mention a few words about higher dimensional generalizations, connecting these ideas to work in progress with Niederkrüger and Perisic. (Received January 17, 2016)