

1135-VU-2986 **Marla Williams*** (marla.williams@huskers.unl.edu). *On Trisections of 4-Manifolds*. Preliminary report.

Trisections of smooth 4-manifolds are a generalization of Heegaard splittings of 3-manifolds, and a trisection can be similarly described by a set of curves on Σ_g , a genus g surface. This talk will explore an algorithm for finding trisection diagrams for $\Sigma_g \times S^2$, and discuss progress on a generalization to $\Sigma_g \times \Sigma_k$. (Received September 26, 2017)