

**Meeting:** 999, Nashville, Tennessee, SS 10A, Special Session on Geometry of Hyperbolic Manifolds

999-57-213            **Genevieve S Walsh\*** (gwalsh@math.utexas.edu), University of Texas at Austin, 1 University Station, Mathematics - C1200, Austin, TX 78712. *Incompressible surfaces and spunnormal form.*

Spunnormal surfaces are a generalization of normal surfaces that include surfaces with cusps in three-manifolds with ideal triangulations. Let  $M$  be a hyperbolic three-manifold with a torus cusp, and let  $T$  be an ideal triangulation of  $M$ . We show that any incompressible surface that is not a virtual fiber can be isotoped to be spunnormal in  $T$ . The proof is based directly on ideas of W. Thurston. (Received August 23, 2004)