1077-51-1456 **Todd A. Drumm*** (tdrumm@howard.edu), **Virginie Charette** and **William M. Goldman**.

Two-holed cross surfaces and their affine deformations.

A two-holed cross surface results from removing two discs from the real projective plane. The space of hyperbolic structures on a two-holed cross surface is parameterized by the lengths on the boundary geodesics and the length of one of the simple closed orientation reversing geodesics. We shall discuss the space of hyperbolic structures of the two-holed cross surface and their affine deformations: which projectively is a compact 2-disk bounded by four curves. (Received September 19, 2011)