1096-57-2277 **Barbara E Nimershiem*** (barbara.nimershiem@fandm.edu). *A Borromean Rings Quilt.* Preliminary report.

With much gratitude to William Thurston, we now know that almost all knots are hyperbolic (the exceptions being torus knots and satellite knots). The same can be said for non-splittable links. A hyperbolic knot or link is one whose complement in the 3-sphere has a complete hyperbolic structure. In his widely distributed lecture notes "The Geometry and Topology of 3-Manifolds," Thurston presented explicit geometric structures for several examples, including the Borromean rings. He did so by decomposing each complement into two polyhedra (with vertices removed) whose faces are identified. In this project, we construct a quilt that exemplifies Thurston's decomposition of the Borromean rings. The quilt forms the boundary between the two polyhedra, with each of the faces in a different color. The quilt also holds the rings themselves. (Received September 17, 2013)