

1124-57-296

**Uwe Kaiser\*** ([ukaiser@boisestate.edu](mailto:ukaiser@boisestate.edu)), Department of Mathematics, Boise State University, 1910 University Drive, Boise, ID 83725. *From homotopy to isotopy in hyperbolic 3-manifolds*. Preliminary report.

We study link theory in closed hyperbolic 3-manifolds. In this case homotopy classes of links can be represented by links embedded in tubular neighborhoods of a set of links defined by resolving singularities of unions of prime geodesics. Using the hyperbolic metric we define integral length invariants and other invariants, and study how these relate to oriented skein theory in the 3-manifold. (Received September 12, 2016)