

1105-57-209

Uwe Kaiser* (ukaiser@boisestate.edu), Department of Mathematics, Boise State University, Boise, ID 83725. *On the structure of link homotopy skein modules*. Preliminary report.

We discuss presentations of the Hoste-Przytycki link homotopy skein modules of oriented 3-manifolds. It is known by previous results that relations for the modules are determined inductively from certain *string topology pairings* defined by intersecting singular tori and oriented links. We describe the module of $S^2 \times S^1$ in detail. We also discuss in general how to find presentations for the modules of connected sums and 3-manifolds with non-trivial JSJ decomposition. (Received September 20, 2014)