

*Speaker:*

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*Title:*

Kauffman bracket skein module of a prism manifold with exceptional fiber

*Abstract:*

Kauffman bracket skein modules, which generalize the Kauffman bracket from links in  $S^3$  to other orientable 3-manifolds have only been computed in the case of a few manifolds and manifold families (such as  $S^2 \times S^1$ , the lens spaces, complements of two-bridge links, complements of torus knots...)

Recently, I have computed these skein modules for the family of prism manifolds with no exceptional fibers. In this talk, I shall present the computation for the prism manifold with one exceptional fiber  $(3,1)$  obtained by surgery from the twisted  $S^1$ -bundle over  $\mathbb{R}P^2$ .

This method should also work for the computation of the Kauffman bracket skein modules of other prism manifolds with exceptional fibers.