

1163-57-240

Ikshu Neithalath*, ikshu@ucla.edu, and **Ciprian Manolescu**, Stanford University. *Skein Lasagna Modules for 2-handlebodies.*

Morrison, Walker, and Wedrich recently introduced a generalization of Khovanov-Rozansky homology to links L in the boundary of a 4-manifold W . For 4-manifolds with only 0, 2, and 4-handles, we describe the simplest piece of their invariant, the skein lasagna module $\mathcal{S}_0^N(W; L)$, in terms of the Khovanov-Rozansky homology of infinitely many cables on the attaching link of the 2-handles. We obtain explicit formulae when W is a disc bundle over S^2 and when $W = \mathbb{C}\mathbb{P}^2$ or $\overline{\mathbb{C}\mathbb{P}^2}$. This is joint work with Ciprian Manolescu. (Received August 30, 2020)