Mathematics > Geometric Topology

Generic deformations of the colored sl(N)-homology for links

Hao Wu

(Submitted on 10 Nov 2010)

We generalize the works of Lee [arXiv:math/0210213v3] and Gornik [arXiv:math/0402266v2] to construct a basis for generic deformations of the colored sl(N)-homology defined in [arXiv:1002.2662v1]. As applications, we construct non-degenerate pairings and co-pairings which lead to dualities of generic deformations of the colored sl(N)-homology. We also define and study colored sl(N)-Rasmussen invariants. Among other things, we observe that these invariants vanish on amphicheiral knots and discuss some implications of this observation.

Submission history

Which authors of this paper are endorsers?

Link back to: arXiv, form interface, contact.