## 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.

Comments: 53 pages plus a 12-page appendix reviewing basics of the colored sl(N)-

homology for links. Many figures, including some colored ones which

are best viewed on a computer screen

Subjects: **Geometric Topology (math.GT)** 

MSC classes: 57M25

Cite as: arXiv:1011.2254v1 [math.GT]

### **Submission history**

From: Hao Wu [view email]

[v1] Wed, 10 Nov 2010 01:42:42 GMT (54kb)

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