

1105-57-216

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13244. *Quantum sutured annular Khovanov homology.*

To a link in a thickened annulus, Asaeda-Przytycki-Sikora assigned a triply-graded homology group which categorifies the Kauffman bracket skein module of the thickened annulus. It was recently shown by Grigsby, Licata, and myself that this homology group carries a natural action of the Lie algebra \mathfrak{sl}_2 . In my talk, I will introduce a deformation of this homology theory which carries an action of the quantum group $U_q(\mathfrak{sl}_2)$. I will also discuss computational results showing that the deformed theory depends nontrivially on the parameter q . (Received September 20, 2014)