

1163-57-494

Uwe Kaiser* (ukaiser@boisestate.edu), Department of Mathematics, Boise State University, 1910 University Drive, Boise, ID 83725. *Kashaev and extended Kauffman state summation*. Preliminary report.

For each integer $N \geq 2$ we define a map from the set of Kashaev N -states for the Kashaev invariant of links into a set of states, which extends the set of Kauffman states for the Alexander polynomial. We discuss various properties of these maps, in particular the relation to the Kashaev state sum contributions. We consider the special case of 3-braids and find explicit formulas for weave knots. We also discuss the relation with state summation for the colored Jones polynomials. (Received September 08, 2020)