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Mustafa Hajj, Department of Computer Science, University of South Florida, Tampa, FL 33647,
and **Jesse S. F. Levitt***, USC Dornsife, Department of Mathematics, Los Angeles, CA 90089.

The colored Jones polynomial as an invariant of q -Weyl algebras. Preliminary report.

The colored Jones polynomial is a knot invariant that plays a central role in low dimensional topology. We consider a walk along a braid model of the colored Jones polynomial that was developed by Armond, Huynh and Lê. The walk model gives rise to ordering a word in a q -Weyl algebra which is addressed and studied from multiple perspectives, with applications to the Jones unknot conjecture. (Received September 26, 2017)