

1096-05-1582 **Heather M Russell*** (hrussell12@washcoll.edu). *sl₄ webs*. Preliminary report.

Quantum knot invariants come from interpreting knot diagrams as pictures of intertwiners of quantum group representations. Each diagram can be decomposed as a linear combination of certain basic planar trivalent graphs called webs. We discuss some combinatorial results about sl_4 webs obtained during the Summer 2012 CSU Channel Islands REU. This work is joint with Ernest Guico, Jennifer Kenkel, Acadia Larsen, Briseida Trejo-Escamilla, and Madison Turbeville. (Received September 16, 2013)