EMILY PETERS, University of California, Berkeley, 970 Evans Hall, #3840, Berkeley, CA 94720-3840, USA The D_{2n} planar algebra and knots

We consider a planar algebra defined by generators and relations, and show that this is a presentation of the planar algebra of the subfactor with principal graph D_{2n} . Then we use this planar algebra to build a knot invariant. The construction of this invariant lets us see some interesting coincidences among specializations of the colored Jones, HOMFLYPT, and Kauffman polynomials of knots.

This is joint work with Scott Morrison and Noah Snyder.