1063-46-131 Hans Wenzl* (hwenzl@ucsd.edu), Dept of Math, UCSD, La Jolla, CA 92093. A new q-Brauer algebra and subfactors.

We construct subfactors which can be viewed as quantum analogs for the inclusion of the fixed point algebra under an outer SU(N) action contained in the fixed points of SO(N), for N odd. While we can take the familiar Hecke algebras for SU(N) fixed points, we need a new q-deformation of Brauer's centralizer algebra for the SO(N) fixed points. Unlike in the classical case, we get finite index finite depth subfactors. These subfactors are expected to be related to twisted loop groups. (Received August 12, 2010)