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Carmen L Caprau*, Department of Mathematics, 5245 N. Backer Avenue M/S PB 108, Fresno, CA 93740. *On a cohomology theory for colored tangles*. Preliminary report.

We will introduce a triply graded cohomology theory for (colored) oriented framed tangles whose strands are labelled by irreducible representations of quantum $\mathfrak{sl}(2)$. Restricting to closed tangles, more precisely to knots, the total graded Euler characteristic of the resulting invariant of the closed tangle/knot is the colored Jones polynomial of the knot. (Received January 13, 2012)