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Wade Bloomquist* (bloomquist@math.ucsb.edu) and **Zhengan Wang**. *Asymptotic Faithfulness of Skein Quantum $SU(3)$ Representations*.

We generalize the asymptotic faithfulness of the skein quantum $SU(2)$ representations of mapping class groups of orientable surfaces to skein $SU(3)$. This skein construction yields a different underlying modular tensor category compared to the Reshetikin-Turaev ones coming from quantum groups or geometric quantization, and so yields a different mapping class group representation. (Received February 06, 2017)