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Francis Bonahon, Department of Mathematics, University of Southern California, Los Angeles, CA 90089, and **Helen Wong***, Department of Mathematics, Carleton College, Northfield, MN 55057. *The Kauffman bracket skein algebra and the quantum Teichmüller space.*

The Kauffman bracket skein algebra of Turaev and Przytycki-Sikora, and the quantum Teichmüller space of Chekhov-Fock and Kashaev, were both introduced as quantizations of the representation variety of surface groups into $\mathrm{PSL}_2(\mathbb{C})$. The first one has a combinatorial definition, whereas the second one is motivated by hyperbolic geometry. We construct a natural map between these two quantizations, relating the two points of view. (Received February 15, 2010)