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Uwe Kaiser* (kaiser@math.boisestate.edu), Department of Mathematics, 1910 University Drive, Boise, ID 83725-1555. *Relating the Jones and Kauffman bracket skein modules of oriented 3-manifolds*. Preliminary report.

We define and discuss epimorphisms from Jones skein modules onto Kauffman bracket skein modules. This is generalizing Kauffman's normalization of the Kauffman bracket of a planar diagram to get the Jones polynomial. The main ingredient is the definition of a writhe invariant of framed 1-manifolds in oriented compact 3-manifolds. This is related to work of Przytycki on the q -analogue of the first homology group. (Received January 16, 2012)