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Razvan Gelca* (razvan.gelca@ttu.edu), 1108 Memorial Circle Dr., Department of Mathematics and Statistics, Texas Tech University, Lubbock, TX 79410. The action of the Kauffman bracket skein algebra of the torus on the skein module of a knot complement.

In Chern-Simons theory there is a quantum mechanical model for the quantization of the moduli space of connections on the torus. In the case of the gauge group SU(2), the action of the Kauffman bracket skein algebra of the torus on the reduced Kauffman bracket skein module of the solid torus (or any manifold bounded by a torus) provides a good approximation of that model (though does not coincide exactly with it). But how does this action look like if we do not reduce the skein module? This is what the present talk wants to explain. (Received September 23, 2018)