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Neal W. Stoltzfus* (stoltz@math.lsu.edu), Dept. of Maths, Louisiana State University, Baton Rouge, LA 70803. *Toward an Arithmetic theory of Chekhov-Fock Algebras*. Preliminary report.

This is a preliminary report on an arithmetic theory of Chekhov-Fock Algebras over the ring of integral Laurent polynomials in the quantum parameter. A relationship to the Kauffman Bracket skein module of a cylinder over a surface is proposed and comparisons made between these two quantizations of the coordinate ring of the character variety. (Received March 29, 2010)