1105-57-103 **Charles D. Frohman** and **Joanna Kania-Bartoszynska*** (jkaniaba@nsf.gov), National Science Foundation, Arlington, VA 22230. *Topological Quantum Field Theory underlying quantum hyperbolic geometry.*

First steps needed in order to construct a topological quantum field theory underlying quantum hyperbolic geometry are to understand the structure of the unreduced Kauffman bracket skein algebra of a compact orientable surface with boundary. We describe this algebra and show that, working over a field of fractions over the characters of the surface, it is a Frobenius algebra. We give a specific computation for the algebra of a connected sum of two copies of $S^1 \times S^2$. (Received September 10, 2014)