1030-16-106 **Sara Westreich*** (swestric@mail.biu.ac.il), The Interdisciplinary Dept. of Soc. Sciences, Bar Ilan University, 52900 Ramat Gan, Israel, and **Miriam Cohen** (mia@math.bgu.ac.il), , Israel. *A Verlinde type formula for factorizable ribbon Hopf algebras.* Preliminary report.

For a semisimple factorizable Hopf algebra, the center of H, $Z(H)$ is stable under the quantum Fourier transform F. This fact can be used to give a short algebraic proof to the Verlinde formula for the semisimple case. When H is a factorizable ribbon Hopf algebra which is not semisimple, the ideal $\Lambda_{\dot{ad}}H$ of $Z(H)$ is stable under the quantum Fourier transform F. We use this to show the existence of a Steinberg-like character and to prove a Verlinde-type formula. The Verlinde-type formula involves characters of projective indecomposable H-modules and of irreducible H-modules. (Received July 25, 2007)