1046-81-556   **Christopher Scott Hiatt*** (`hiatt_c@utpb.edu`), 2910 W Michigan Ave #204, Midland, TX 79701. *Quantum Traces In Quantum Teichmüller Theory.* Preliminary report.

We prove that for the torus with one hole and $p \geq 1$ punctures and the sphere with four holes there is a family of quantum trace functions in the quantum Teichmüller space satisfying the properties proposed by Chekhov and Fock in *Observables in 3D Gravity and Geodesic Algebras*, from: "Quantum groups and integrable systems (Prague, 2000)", Czechoslovak J. Phys. 50 (2000) 1201-1208 MR1806262. (Received September 08, 2008)