

Meeting: 1002, Pittsburgh, Pennsylvania, SS 1A, Special Session on Invariants of Knots and 3-Manifolds

1002-57-79 **Razvan Gelca*** (rgelca@math.ttu.edu), Department of Mathematics and Statistics, Texas Tech University, Lubbock, TX 79410. *On the quantization of the moduli space of flat $SU(2)$ -connections on the torus.*

The talk will describe recent results obtained by the author regarding the quantization of the moduli space of flat $SU(2)$ -connections on the torus. There is an analytical point of view using the Weyl quantization, and a topological point of view using knot invariants. We will show that the quantization itself determines the restriction to the torus of the modular functor. Also, we will exhibit analytical formulas for the Reshetikhin-Turaev knot invariants. (Received August 31, 2004)