

Meeting: 1006, Lubbock, Texas, SS 8A, Special Session on Invariants of Links and 3-Manifolds

1006-57-63 **Khaled Moham Qazaqzeh*** (kqazaq1@lsu.edu), 3361 Iowa Street, Apt 301, Baton Rouge, LA 70802. *Integral bases for the $SU(2)$ -TQFT-modules in genus one.* Preliminary report.

Gilmer and Masbaum, extending work with van Wamelen in genus one, found explicit bases for naturally defined lattices over a ring of algebraic integers in the $SO(3)$ -TQFT-modules of surfaces at roots of unity of odd prime order. We find similar bases for the $SU(2)$ -TQFT-modules for surfaces of genus one. (Received February 02, 2005)