1023-55-1407   **Kheira Ameur*** (`ameur@mail.usf.edu`), Departement of Mathematics, 4202 East Fowler, Phy114, Tampa, FL 33620. *Polynomial quandle cocycles and obstructions to embedding disjoint union of tangles.*

In this talk, quandle cocycle invariants are defined for tangles using monchromatic colorings on the boundary points. We will show how they can be used as obstructions to embedding tangles in knots. We will also extend the result to embedding disjoint union of tangles. Concrete examples are discussed for knots and tangles in their tables using polynomial cocycles. (Received September 26, 2006)