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Kheira Ameer* (ameur@mail.usf.edu). *Polynomial Cocycles and Higher Homology Groups of Alexander Quandles.*

In this talk a family of n -cocycles given by polynomial expressions will be used to prove the non-triviality of higher homology groups for some Alexander quandles. The dimension 2 and 3 will be proved using coloring and shadow colorings of torus knots. Higher dimensions are proved using cycles constructed by purely algebraic methods. (Received February 04, 2008)