1056-55-1201 **Karleigh Frederick**, **Samantha Hilker** and **Megan Savage*** (`mls033@shsu.edu`), 2537 Pine Shadows Dr, Apt 618, Huntsville, TX 77340. *A Knot or Not a Knot?* Preliminary report.

This talk will examine multiplicative Conway notation, and try to answer the question: Can a multiplicative Conway notation be examined to definitively tell whether it will yield a knot or a link? Initially, we focused on finding patterns of even and odd numbers embedded in the sequence of numbers. The ambiguity of this process made us search for more general methods. From this, we developed a method for following a single strand of a tangle as it wound through the notation, enabling us to predict when the Conway notation would yield a knot or a link. We will explain the method with many examples. (Received September 21, 2009)