

1023-M1-886

**Michael Anthony Pohl\*** ([mike.pohl@richmond.edu](mailto:mike.pohl@richmond.edu)), UR Box 1432, 28 Westhampton Way, Richmond, VA 23173. *On Mutually Orthogonal Sudokus*. Preliminary report.

This talk is centered on constructing a maximum set of mutually orthogonal Sudokus. I begin with a fairly simple proof that the maximum size of a set of mutually orthogonal Sudokus is 6 using basic properties of Latin squares and Sudokus. Next, I construct a set of 6 mutually orthogonal Sudokus. This construction only uses basic properties from group theory and permutation matrices. (Received September 22, 2006)