

1116-VW-136 **Jathan W. Austin*** (jwaustin@salisbury.edu), Department of Mathematics & Computer Science, Salisbury University, 1101 Camden Avenue, Salisbury, MD 21801. *Exploring Hall's Genealogy of Pythagorean Triads*. Preliminary report.

In 1970, Hall published a short paper showing that primitive Pythagorean triples can be sorted into sets of three according to matrix multiplication by three given matrices and discussed patterns that appear in this sorting. In this talk, I will discuss additional patterns that appear, with connections to Fibonacci and Pell numbers. (Received August 04, 2015)