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Jathan W. Austin* (jwaustin@salisbury.edu), Dept. of Mathematics and Computer Science, Salisbury University, 1101 Camden Avenue, Salisbury, MD 21801. *Matrices, Twin Pythagorean Triples, and Pell Numbers.*

A matrix for a linear transformation that maps Pythagorean triples into Pythagorean triples is called a Pythagorean-triple-preserving matrix (PTPM). In this talk, the presenter will show how to generate the set of all leg-leg twin Pythagorean triples using powers of one PTPM. Several identities for Pell numbers that follow from this construction will be discussed. (Received August 30, 2013)