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**James M Hammer\*** (jmhammer@cedarcrest.edu) and **Joshua Harrington**  
(joshua.harrington@cedarcrest.edu). *Counting the Number of Pythagorean Triples in a Finite Field of Odd Characteristic.*

The Pythagorean identities date back to antiquity. In recent times, the Pythagorean theorem has been generalized to higher dimensions and even to non-Euclidean spaces. This presentation studies the Pythagorean theorem in finite fields. Specifically, this presentation will enumerate the number of Pythagorean triples in all finite fields of odd characteristic. (Received September 22, 2015)