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**Benjamin J. Hamlin\*** (bh7394@stu.armstrong.edu), **Joshua K. Lambert** and **Mark R. Budden**. *Enumeration of Triangles in a  $2^t$ th Residue Graph*.

For a fixed prime  $p \equiv 1 \pmod{16}$ , we shall count the number of triangles in a 16th residue graph. The aforementioned number requires the enumeration of consecutive 16th residues modulo  $p$ . We focus our efforts to enumerating the triangles in the  $2^t$ th residue graphs. (Received September 14, 2016)