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Jessica OShaughnessy* (jshaugh@su.edu), Shenandoah University, 1460 University Drive,
Winchester, VA 22601. *Group Ring Convolutional Codes: Constructions and Observations.*

A known isomorphism exists between elements of the group ring and matrices. This allows for interesting use of group ring matrices to construct codes. Constructions of convolutional codes using elements in the group ring, in particular units in the group ring, is explored. Observations on types of convolutional codes constructed using these methods are also presented. (Received August 19, 2016)