1043-13-30Steven T. Dougherty* (doughertys1@scranton.edu), Sunghyu Han and Hongwei Liu.
Higher Weights for Codes over Rings.

We consider a generalization of higher weights for codes over finite chain rings and principal ideal rings. We find bounds on the minimum higher weights and give a generalized definition for higher MDS and MDR codes. We use joint weight enumerators to produce MacWilliams relations for specific higher weight enumerators. (Received July 24, 2008)