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**Xavier Martinez-Rivera\*** (xaviermr@iastate.edu). *The epr-sequence over a field of characteristic 2.*

The enhanced principal rank characteristic sequence (epr-sequence) of an  $n \times n$  symmetric matrix over a field  $\mathbb{F}$  was recently defined as  $\ell_1 \ell_2 \cdots \ell_n$ , where  $\ell_k$  is either **A**, **S**, or **N** based on whether all, some (but not all), or none of the order- $k$  principal minors of the matrix are nonzero; that is,  $\ell_k = \mathbf{A}$  if all the principal minors of order  $k$  of the matrix are nonzero,  $\ell_k = \mathbf{N}$  if none are nonzero (i.e., all are zero), and  $\ell_k = \mathbf{S}$  if some (but not all) are nonzero. There is no known characterization of the epr-sequences that are attainable by symmetric matrices over the real or any other field of characteristic *not* 2. However, for a field of characteristic 2 such a characterization is now known, and it is presented in this talk. (Received September 15, 2016)