## Abstract

The error-correcting pair is a general algebraic decoding method for linear codes. Since every linear code is contained in an MDS linear code with the same minimum distance over some finite field extensions. In this talk, we showed that for an MDS linear code C with minimum distance  $2\ell + 2$ , if it has an  $\ell$ -error-correcting pair, then the parameters of the pair have three possibilities. And then for each case, we discussed the properties for the MDS code.