Abstract

In 1996 ， R. Pellikaan proved that an MDS linear code with minimum distance 2t+1 has an t-error-correcting pair if and only if it is a generalized Reed-Solomon code. This talk considers the case for an MDS linear code with minimum distance 2t+2 and discusses the existence of an error-correcting pair for the twisted generalized Reed-Solomon codes with twist 1 or 2.