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Viewing Codes Through the Lens of Fat Points

One can associate a linear code to a fat point set in projective space. It is natural to investigate how we can use properties of one of these objects to understand properties of the other. For example, it has been shown that the minimum Hamming distance of the code can be bounded using graded shifts from the graded minimal free resolution of the fat point set. We will investigate such connections for some special families of fat point sets.