

1154-52-2297 **Dustin G. Mixon*** (mixon.23@osu.edu). *Doubly transitive lines.*

We are interested in finite subsets of complex projective space that maximize the minimum distance. Many of the known optimal codes exhibit extraordinary symmetry. This talk focuses on a special case of this phenomenon: doubly transitive lines. Such lines are necessarily optimal codes in projective space. We leverage the underlying symmetries to obtain a partial classification of doubly transitive lines, namely those with almost simple symmetries. (Joint work with Joseph Iverson.) (Received September 17, 2019)