

1125-94-1793

Hiram Habid Lopez Valdez* (hlopezv@clemson.edu), Clemson University, Martin Hall O-2, Clemson, SC 29634. *Evaluation codes: codes using commutative algebra.*

In this talk we introduce the linear codes known as evaluation codes. We are interested in this sort of codes because its parameters can be computed using basic tools of commutative algebra, and we will see how to do it.

The family of evaluation codes mainly depends on an affine or a projective set, thus we are going present some examples using different families of affine and projective points.

Finally, we are going to use the ideas of evaluation codes to define new algebraic concepts. (Received September 19, 2016)