

1122-05-142

**Edward Hanson\*** ([hansone@newpaltz.edu](mailto:hansone@newpaltz.edu)). *New Characterizations of Leonard Pairs.*

Roughly speaking, a Leonard pair can be thought of as an algebraic generalization of a  $Q$ -polynomial distance-regular graph. Because of this connection, there are sequences of parameters associated with Leonard pairs that generalize the intersection numbers of a distance-regular graph. In this talk, we will discuss two new characterizations of Leonard pairs using these parameter sequences. (Received August 11, 2016)