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**Edward D. Hanson\*** ([hanson@math.wisc.edu](mailto:hanson@math.wisc.edu)), University of Wisconsin, Department of Mathematics, 480 Lincoln Dr., Madison, WI 53706. *Characterizations of Leonard Pairs.*

Roughly speaking, a Leonard pair can be thought of as an algebraic generalization of a  $Q$ -polynomial distance-regular graph. In this talk, we will cover several characterizations of Leonard pairs that utilize this notion. (Received September 25, 2012)