

1068-49-141

**Jiyuan Tao\***, 4501 North Charles Street, Baltimore, MD 21210. *The Jordan Quadratic Strict Semimonotonicity (JQSSM) and Related Properties in Euclidean Jordan Algebras.*

In this talk, we present the Jordan quadratic strict semimonotonicity (JQSSM) and related properties in Euclidean Jordan algebras  $V$ . Specifically, we talk about the ultra SSM-property for a linear transformation on  $V$ . We give a characterization for the Jordan quadratic SSM (JQSSM)-property on a simple Euclidean Jordan algebra. Also, we show that some interconnections between the strict semimonotonicity (SSM)-property, the Jordan linear SSM (JLSSM)-property, and the (JQSSM)-property on  $V$ . (Received January 17, 2011)