1046-13-410 Marie A Vitulli^{*} (vitulli^Quoregon.edu), Department of Mathematics, 1222 University of Oregon, Eugene, OR 97403-1222. *Seminormality and Weak Normality.*

In this talk we outline the history of the twin theories of weak normality and seminormality for commutative rings and algebraic varieties with an emphasis on the recent developments in these theories over the past fifteen years. We discuss both the geometric and arithmetic consequences of these notions and for the most part limit our attention to reduced Noetherian rings. We discuss the original definitions via gluings, Hamann's criterion for seminormality and Swan's refinement, connections with the Picard group including a recent simplified treatment, universal mapping properties, systems of weak subintegrality, an elementwise criterion of weak seminormality, a recent geometric interpretation of the elementwise criterion and other developments, as time permits. (Received September 01, 2008)