UNIVERSITY OF CALIFORNIA RIVERSIDE

DEPARTMENT OF MATHEMATICS

Colloquium

Dr. Marie A. Vitulli

(University of Oregon)

"Seminormality & Weak Normality"

Abstract: In this talk we outline the history of the twin theories of weak normality and seminormality for commutative rings with an emphasis on the recent developments in these theories over the past fifteen years. We review and expand upon the original definitions of seminormalization and weak normalization via gluings, Hamann's criterion for seminormality, Swan's contributions, connections with the Picard group, systems of (weak) subintegrality, a new element wise criterion for weak subintegrality, and other developments, as time permits. We will show that much of the original theory holds for general commutative rings. We only specialize to reduced Noetherian rings when absolutely necessary.
For the most part, this talk should be accessible to graduate students who have had a first year course in abstract algebra."

Wednesday, May 6, 2009
Surge 284
4:10-5:00pm
Tea Time at 3:40pm