1027-14-171   **Zhenhua Qu*** (`zqu@math.utexas.edu`), Department of Mathematics, University of Texas - Austin, 1 University Station C1200, Austin, TX 78712. *Toric schemes over a discrete valuation ring and applications to compactification of very affine varieties.* Preliminary report.

In this talk, I will describe a construction of toric schemes over a discrete valuation ring and its properties in terms of some combinatorial data. Study of such, to me, arises in an attempt to compactify very affine varieties as many compactification problems are ralated to it. I'll then discuss how we can get nice compactification for very affine varieties generalizing J. Tevelev's work. (Received February 26, 2007)