1010-13-146   **Gyu Whan Chang*** (`whan@incheon.ac.kr`), Department of Mathematics, University of Incheon, 402-749 Incheon, South Korea. *On t-locally pseudo-valuation domains.* Preliminary report.

Let D be an integral domain with quotient field K, D^w the w-integral closure of D, X an indeterminate over D, and $N_v = \{f \in D[X] | (A_f)_v = D\}$. In this talk, we define a t-locally pseudo-valuation domain (t-LPVD) and a t-globalized pseudo-valuation domain (t-GPVD), and then we prove that if D is a t-LPVD, then D is a UMT-domain if and only if $D[X]$ is a t-LPVD, if and only if D^w is a Prüfer v-multiplication domain, if and only if $D[X]_{N_v}$ is an LPVD, if and only if each overring of $D[X]_{N_v}$ is an LPVD. We also prove that D is a t-GPVD and a UMT-domain if and only if $D[X]_{N_v}$ is a GPVD.