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Truncation is Robust and Independent. Preliminary report.

05, 2017

Given a monomial group  $\mathfrak{M}$  in a valued field K with residue field  $\mathbf{k}$  and a truncation closed embedding from K into the Hahn field  $\mathbf{k}[[\mathfrak{M}]]$  we can talk about the truncation of an element  $f \in K$  at a monomial  $mathfrakm \in \mathfrak{M}$ . Truncation is a robust notion in the setting of Hahn fields. That is, several natural algebraic and transcendental extensions of truncation closed subsets of a Hahn field remain truncation closed. We show that theories extending the theory of valued fields in which truncation is defined carry the independence property. (Received February