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K Alan Loper* (lopera@math.ohio-state.edu), Department of Mathematics, Ohio State University Newark, 1179 University Drive, Newark, OH 43055. *Topology and integer-valued polynomials on valuation domains*. Preliminary report.

Let V be a valuation domain and S a subset. We investigate the question of conditions on S such that $\text{Int}(S, V)$ is a Prufer domain. We make extensive use of Chabert's recent results on polynomial topology. (Received February 16, 2010)