1046-54-1528 Frederic Mynard, Georgia Southern University, Department of Mathematical Sciences, P.O. Box 8093, Statesboro, GA 30460, and Tom Richmond* (tom.richmond@wku.edu), Western Kentucky University, Department of Mathematics, 1906 College Heights Blvd., Bowling Green, KY 42101. The lattice of locally convex topologies on an ordered set. Preliminary report.

A topology τ on a partially ordered set (X, \leq) is *locally convex* if it has a base of \leq -convex sets. We consider the lattice of all locally convex topologies on certain ordered sets and discuss lattice complementation in this setting. (Received September 15, 2008)