

1125-VU-595      **Lyll Reid\*** ([lyall.reid@ucf.edu](mailto:lyall.reid@ucf.edu)). *Lattice-Valued Convergence Spaces*. Preliminary report.

Let  $L$  be a complete lattice satisfying an infinite distributive property (Frame) with top element  $\top$ . Then the  $\top$ -filters on a set  $X$  can be used to define a  $\top$ -convergence space. Properties of this category are investigated and its relationship to the category whose objects consist of all stratified  $L$ -convergence spaces is given. (Received September 07, 2016)