1125-VW-2525   **Ryan Luke*** (`ryan.luke@louisville.edu`). *Behavior of Residuated Maps with respect to the Way-Below Relation.* Preliminary report.

We will examine residuated mappings on a function lattice and how they behave with respect to the way-below relation. In particular, which residuated ϕ has the property that F is way-below $\phi(F)$ for F in appropriate sets. We will also consider an application to contractions and probabilistic metric spaces. (Received September 20, 2016)