1145-55-955 **Jānis Lazovskis\*** (jlazov2@uic.edu). Sheaf theory on universal persistent homology spaces. The product of the Ran space and the nonnegative reals admits a stratification by simplicial complexes, through the Čech or Vietoris-Rips constructions. This leads to a cosheaf valued in diagrams of simplicial complexes for which every restriction to  $\{P\} \times \mathbb{R}_{\geq 0}$  recovers the persistent homology of the data set P. (Received September 17, 2018)