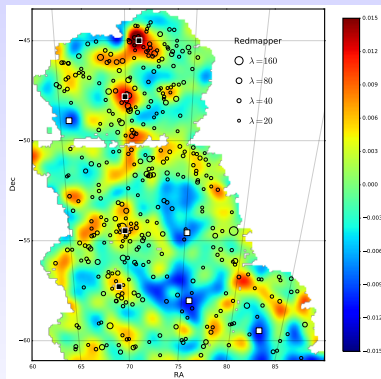


Dark Energy Survey (DES)

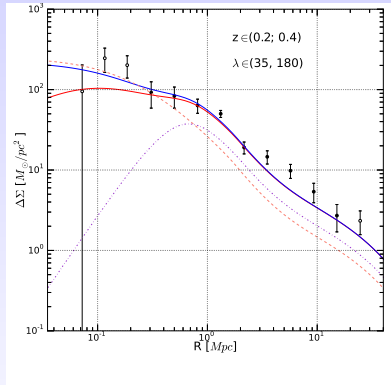
- ▶ 45 papers from science verification data now published or submitted
- ▶ 14 papers on weak lensing published or submitted
- ▶ Weak lensing papers are based on the shear catalogs produced by Erin Sheldon (BNL)



DES Mass Map, Vikram et al. 2015 PRD

Dark Energy Survey

- ▶ Sheldon was lead author, with Mike Jarvis, of the DES shear catalog paper, as well as producing catalogs (Jarvis et al. 2016). All other lensing papers depend this work.
- ▶ E. Sheldon published, with Peter Melchior, a paper on the crowd sourcing “DES Exposure Checker”, used by DES scientists to view and verify survey images (Melchior, Sheldon et al. 2015).
- ▶ Paper on lensing by clusters of galaxies, led by E. Sheldon, now in final stages. Part of the DES key project to constrain cosmology from clusters and lensing.



Mass Density Contrast of DES Clusters. This figure is a placeholder.