



This figure is not for an application of DC2 data but a validation test for Sprinkler, which is a module for embedding strong lensing systems in DC2. “apmli” stands for “apparent magnitudes of lensed images”, “apmsi” stands for “apparent magnitudes of sources”. The blue curve shows the theoretical prediction of the distributions in Oguri&Mashall 2010 (OM10 ). The red curve shows the distribution in the results of Sprinkler with flat selection function in redshift space. The green curve shows the distribution in the results of Sprinkler with a weighted selection function in redshift space according to the redshift distribution of sources in OM10. This is just the first step for the correction. Eventually, we aim to make the green and blue curves as close as possible by involving other weighted selection functions beyond redshifts. The corresponding Jupyter-notebook is “contributed/testSprinkler\_SL\_NanLi\_HackurDC2.ipynb”. Please feel free to slack me @linan7788626 if you have any questions.