HLS Task Group- Filters

- DE (WL and BAO/RSD) drive requirements
- Other specific science goals contribute FOMs
- Myriad other science goals enabled

HLS Concept- DE

- Unobscured design has significant advantages, we use this design for our forecasts
- Tools to evaluate different mission/survey configurations are mature
- 3 NIR filters from 1-2 microns (2 shape and 3 photo-z)
  - 0.92-1.25; 1.25-1.6; 1.55-2.0
- 2 survey strategies
  - WL/BAO/RSD Deep survey @ ~2200 square degrees per year in 3 filters
  - BAO/RSD wide survey at ~11,000 square degrees per year in one filter

HLS – Concept others

- Rare Stars FoM – old white dwarfs and brown dwarfs
- High Redshift QSOs (z>8) FoM
- Galaxy Evolution/Structure (number, number resolved, z>7) FoM
- Some sort of ‘clusters’ FoM likely