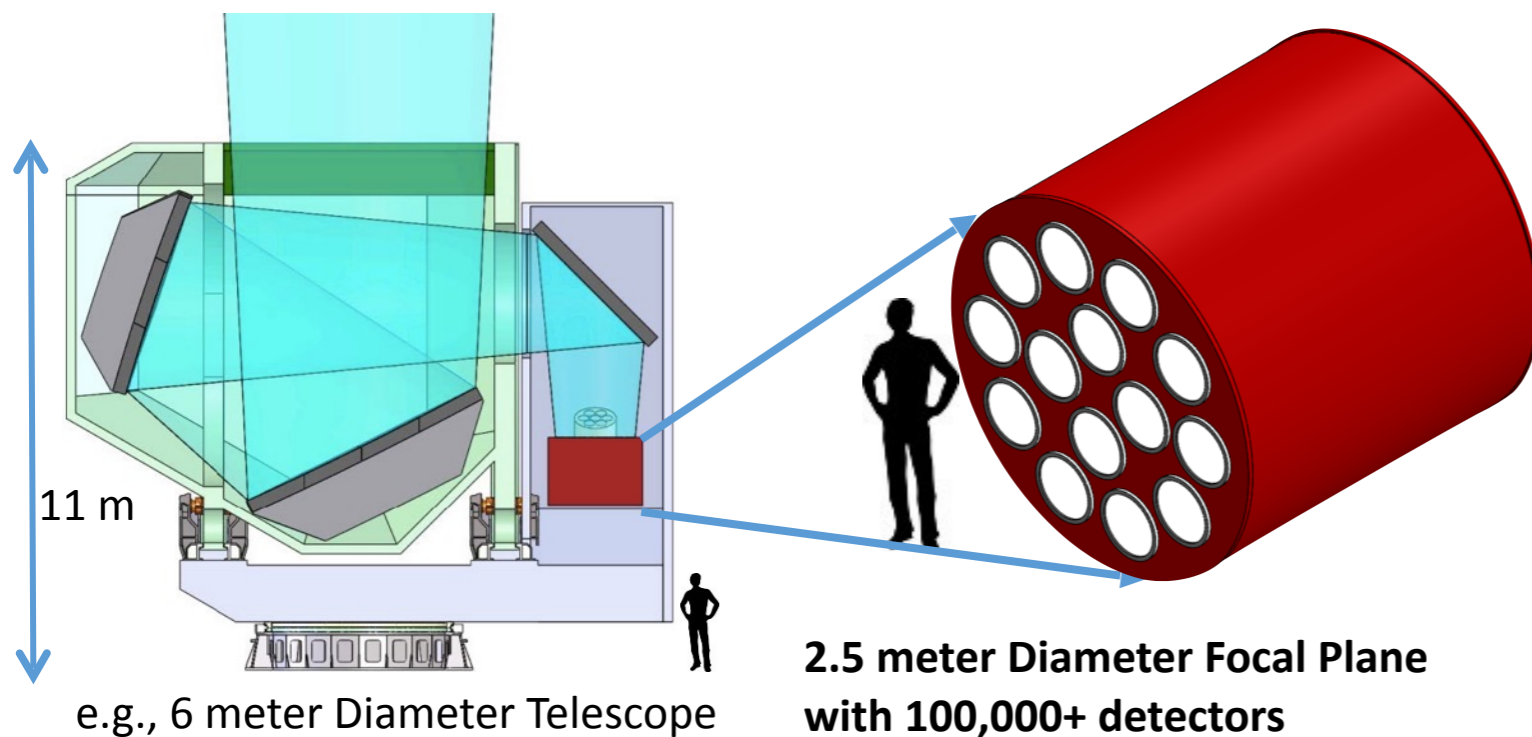
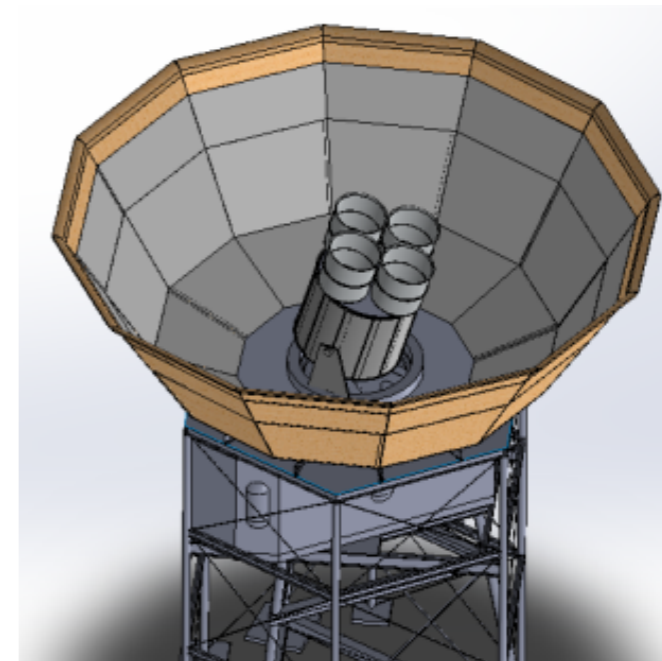


# The CMB-S4 Experiment

- Endorsed by DOE/NSF P5 report, NRC (NSF) Antarctic Science report, Concept Definition Taskforce (CDT) report accepted by AAAC panel
- CMB-S4 concept:
  - 400,000 detectors split between 3x 6-m aperture, 14x 0.5-m aperture telescopes
  - **Two sites:** Spread between Chile and South Pole
  - **Two surveys:** Inflation survey on  $\sim 3-8\%$  of sky, Cross-correlation survey on  $\sim 40\%$  of sky.

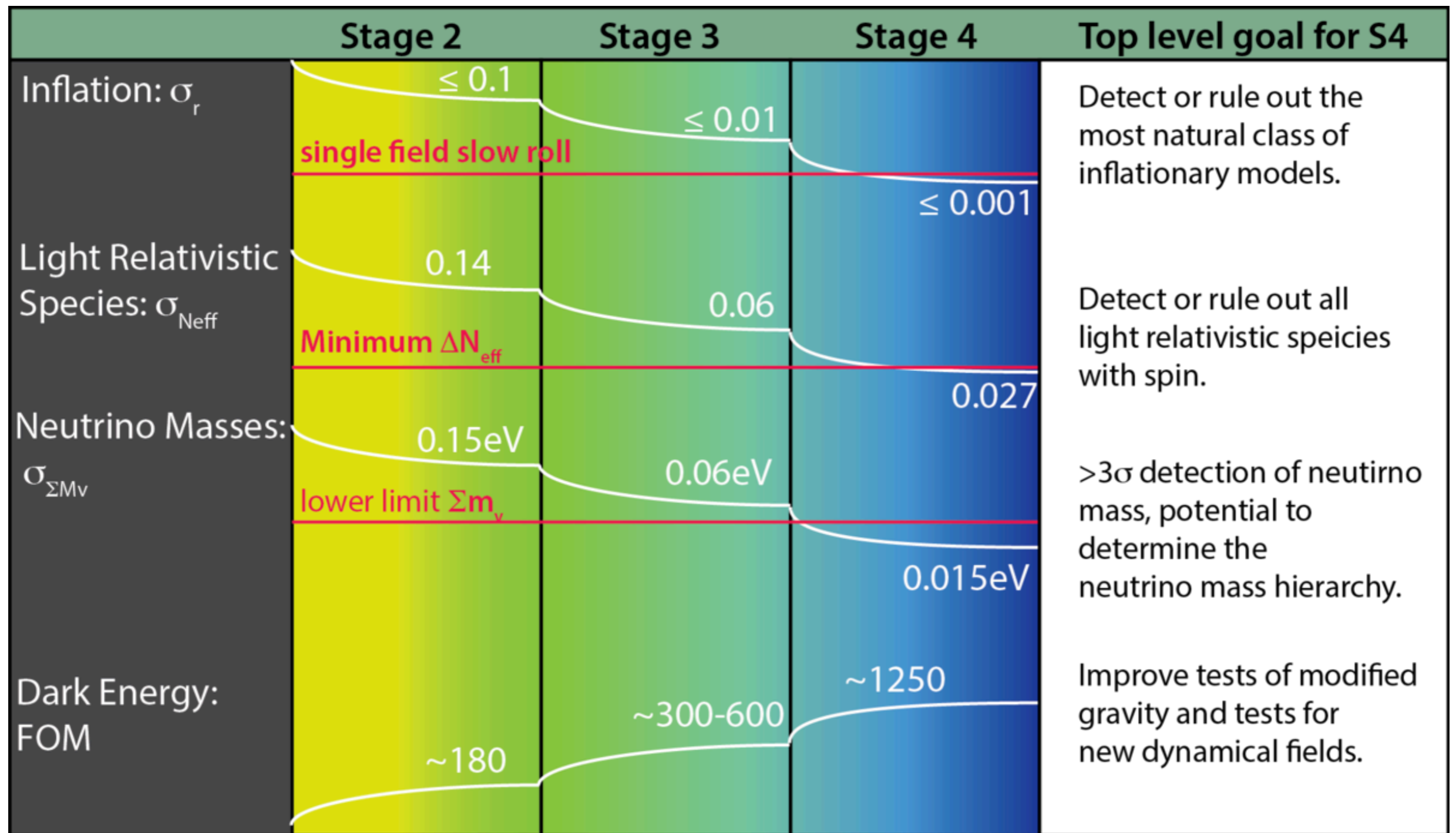


High resolution Science + de-lensing:  
300,000 Detectors on 3-4 large telescopes



Low resolution B-mode Science:  
200,000 Det. on  $\sim 12$  small telescopes

# CMB-S4 Science Thresholds



**Timeline**

**2016**

**2020**

**2022?**

# CMB-S4 Power Spectra

