

TECHNOLOGY

Angular Resolution: Interferometry

Angular Resolution and Collecting Area: Large Space Telescopes

Contrast Stability: Ultrastable Structures

Detection Sensitivity: Advanced Detectors

Starlight Suppression: Starshades

Starlight Suppression: Coronagraphs

MISSIONS



Hubble



Spitzer



Kepler



TESS



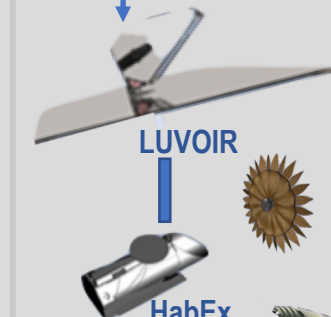
JWST



WFIRST



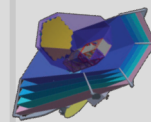
Starshade Rendezvous



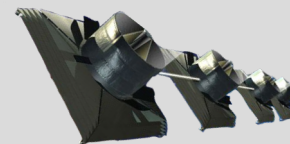
LUVOIR



HabEx



OST



Exo-Earth Interferometer

TODAY

2020s

2025s

2030s

2035 and beyond

SCIENCE

Exoplanetary Atmospheres  
Hot Jupiters

Exoplanet Abundance

Nearest Transiting Planets

Atmospheric Chemistry

Direct Imaging  
Exozodiacal Dust  
Exoplanet Diversity

Habitable Exo-Earth Discovery

Exo-Earth Biosignatures  
Habitable Exo-Earth Abundance  
M-Dwarf Rocky Planet Biosignatures  
Cool Gas Giants

Life Verification

Possible Pending Decadal Survey