

DESI Survey: Making the Largest 3D Map of the Universe

U.S. Department of Energy Office of Science

3 million Quasars (0.9 < z < 2.1)+ Ly-a forest (2.1 < z)

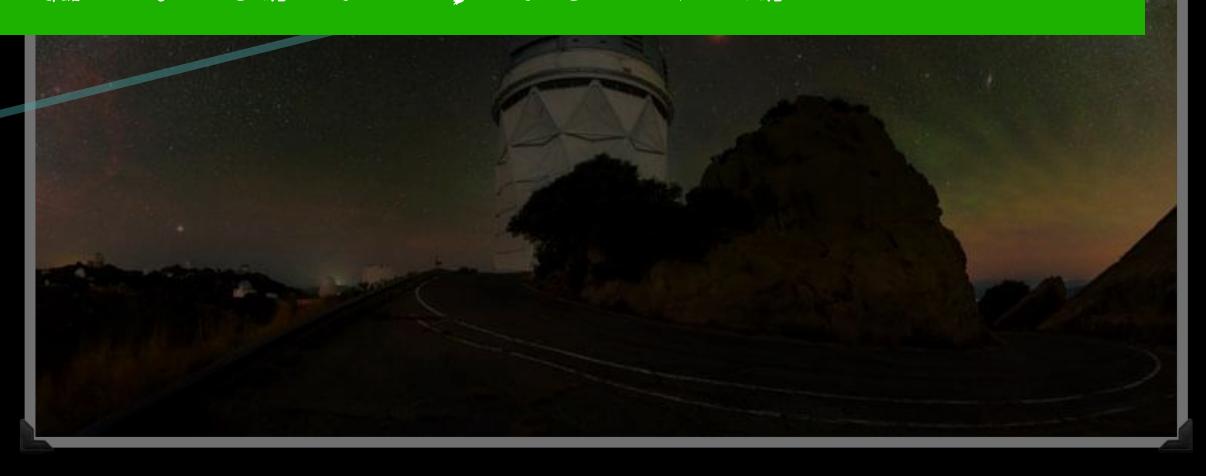


e Baryon Acoustic Oscillations e Redshift Space Distortions

(0.4 < Z < I)

13.5 million Bright Galaxies (0.0 < z < 0.4)

From 2021-2026 DESI will measure precise redshifts to ~40 million galaxies over 14,000 deg2.





Baryon Acoustic Oscillations (BAO)

- Gravity and pressure generated sound waves in the primordial plasma
- When baryons and photons decoupled, the sound waves stopped

