CMB Cornerstone

- CMB temperature and polarization measures provide the high redshift cornerstone to cosmological inferences on the dark matter and dark energy

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**Angular Scale**

**Multipole moment \( l \)**

\[
\frac{l(l+1)C_l}{2\pi} (\mu K^2)
\]

**TT Cross Power Spectrum**

- Model
- WMAP
- CBI
- ACBAR

**Multipole moment \( l \)**

**Angular Scale**

**WMAP: Bennett et al (2003)**
Is $H_0$ Interesting?

- WMAP infers that in a flat $\Lambda$ cosmology $H_0 = 72 \pm 5$
- Key project measures $H_0 = 72 \pm 8$
- Are local $H_0$ measurements still interesting?