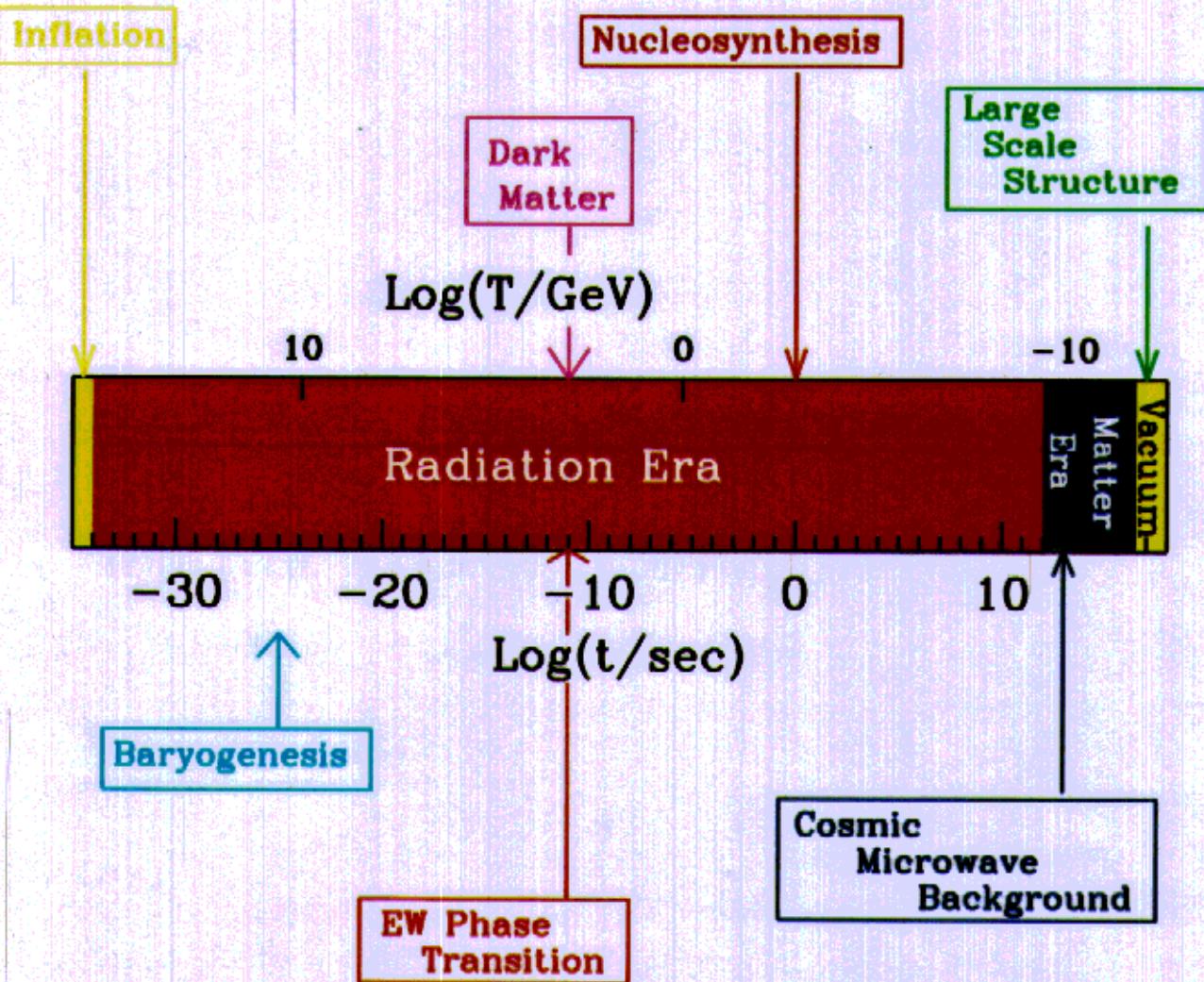
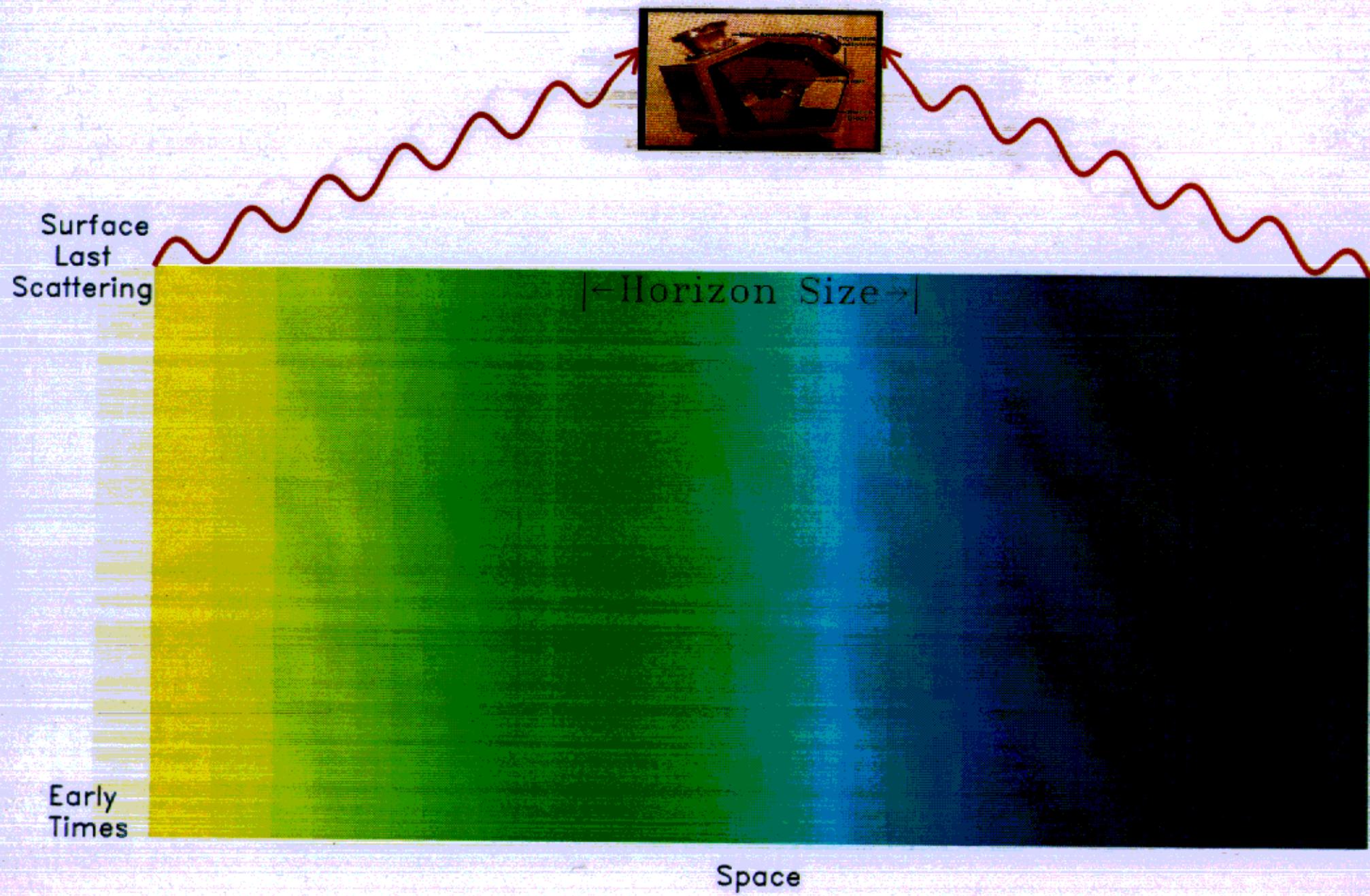


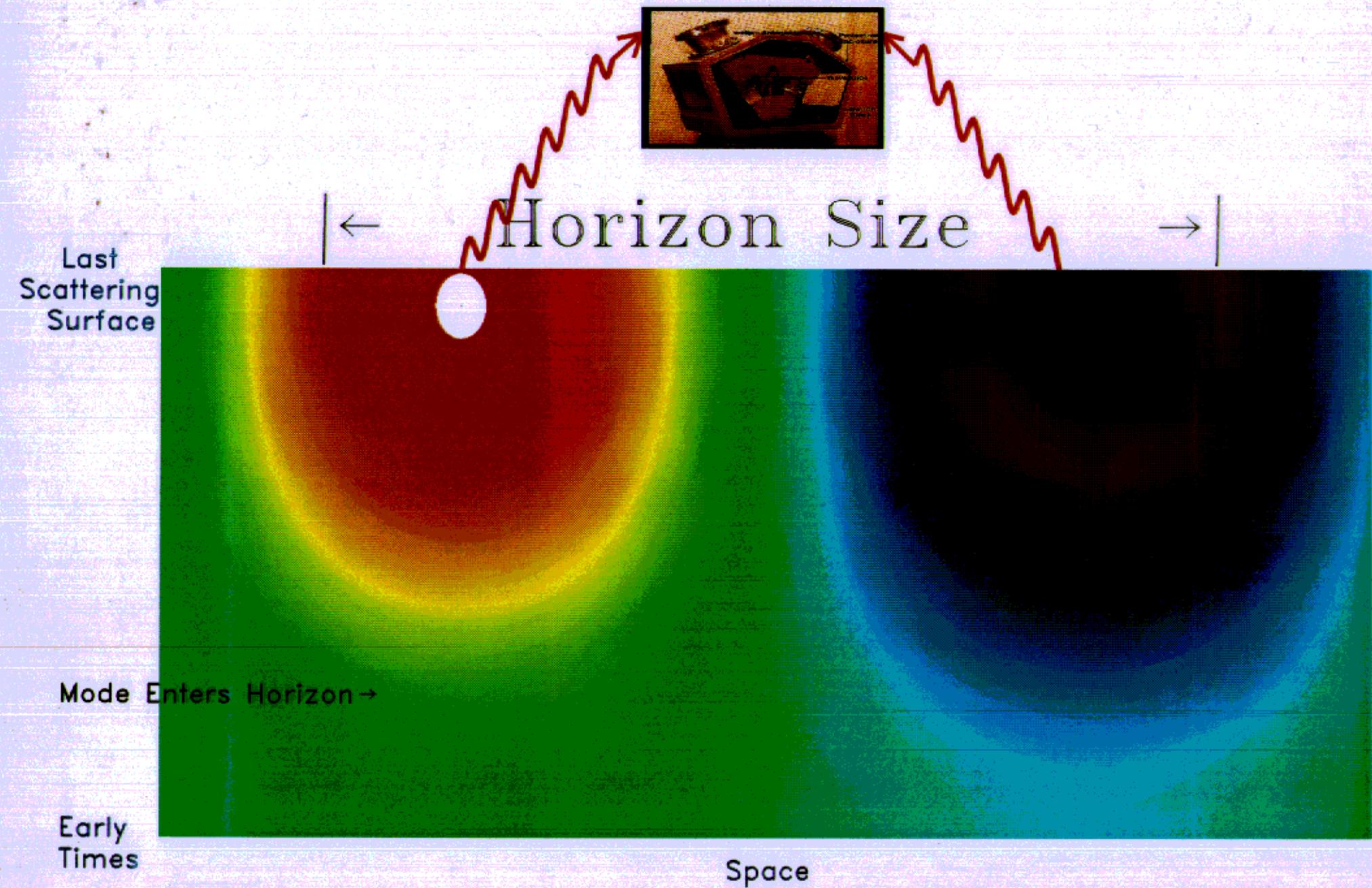
STANDARD MODEL OF COSMOLOGY



Sachs-Wolfe Effect



First Doppler Peak

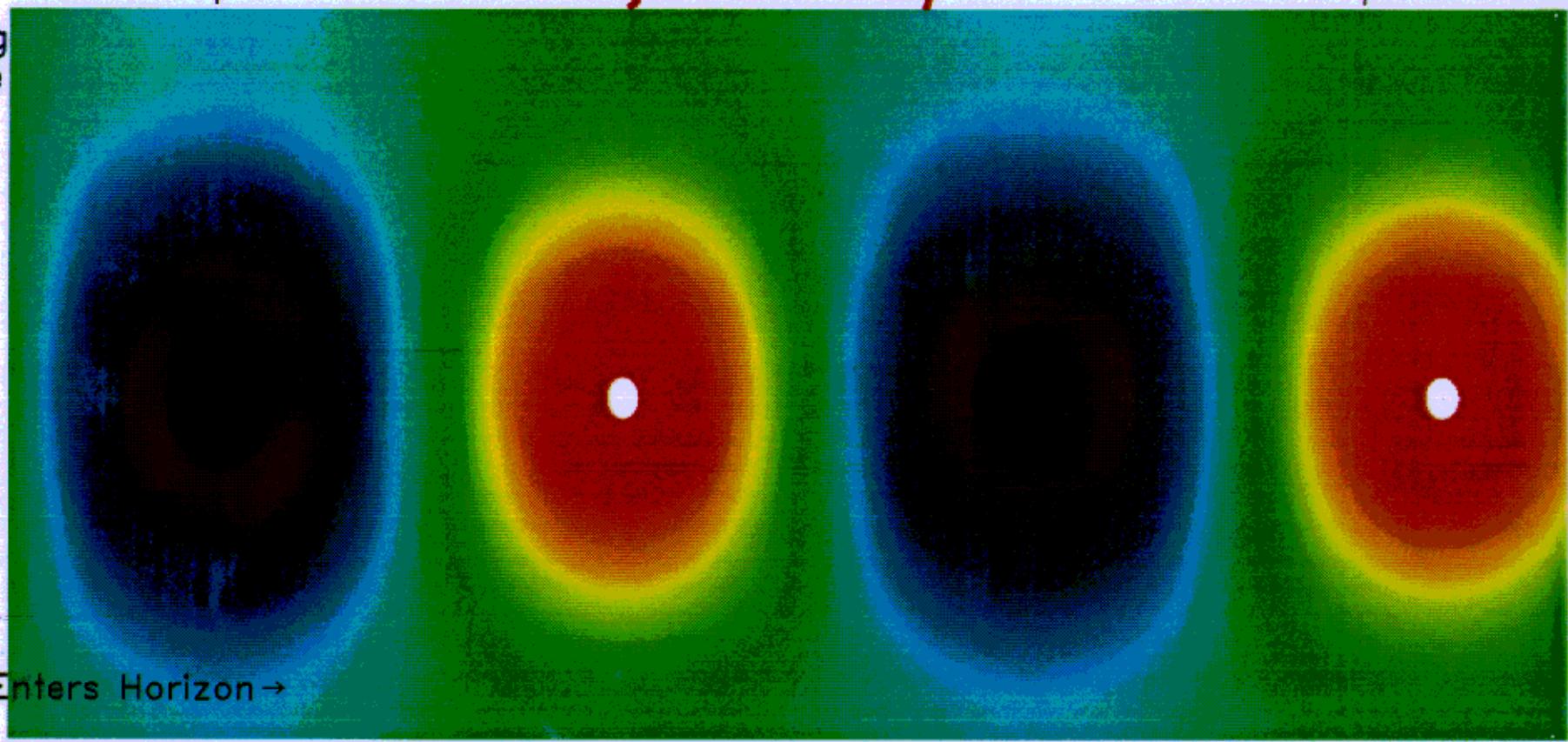


First Doppler Trough

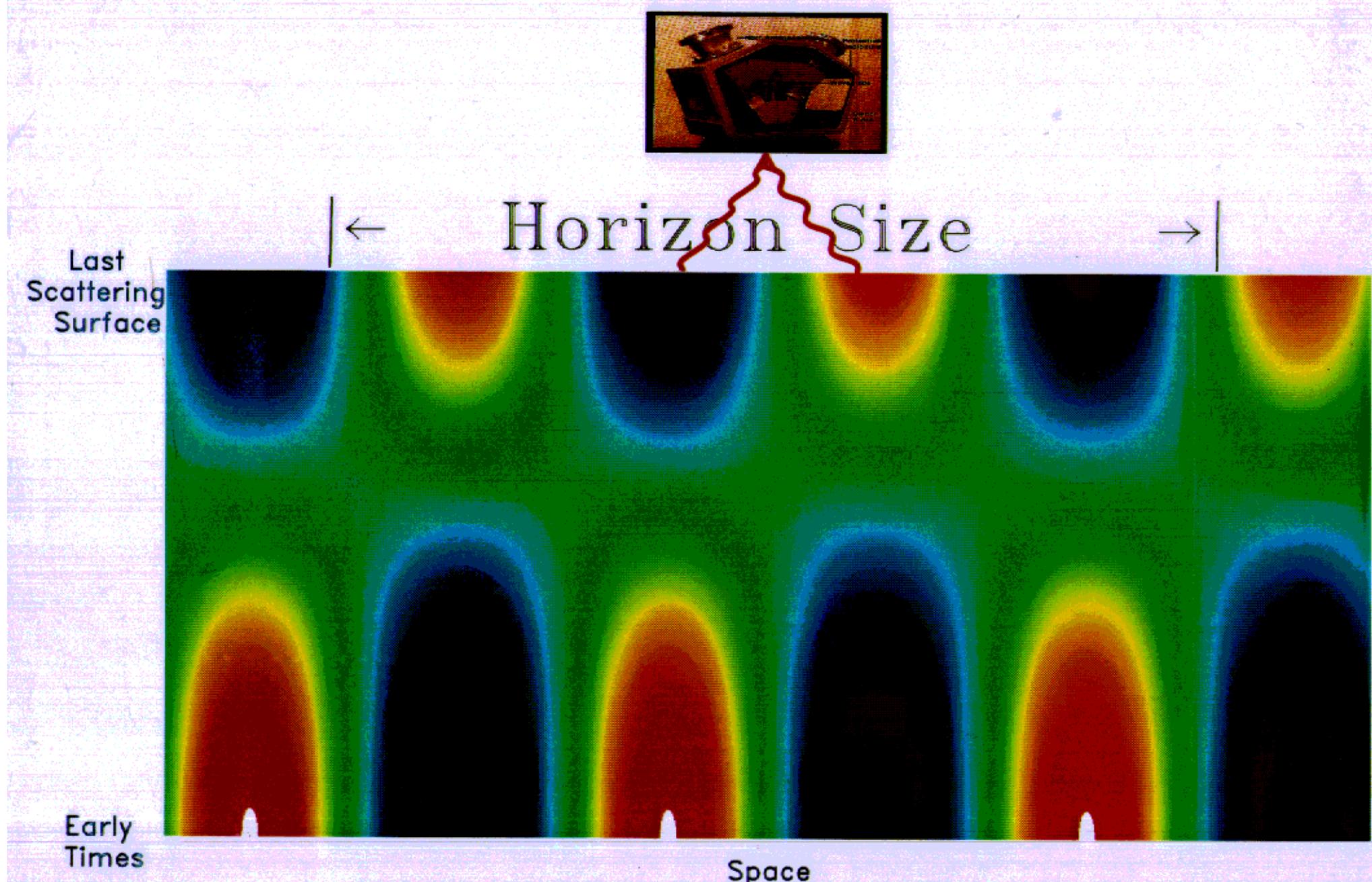


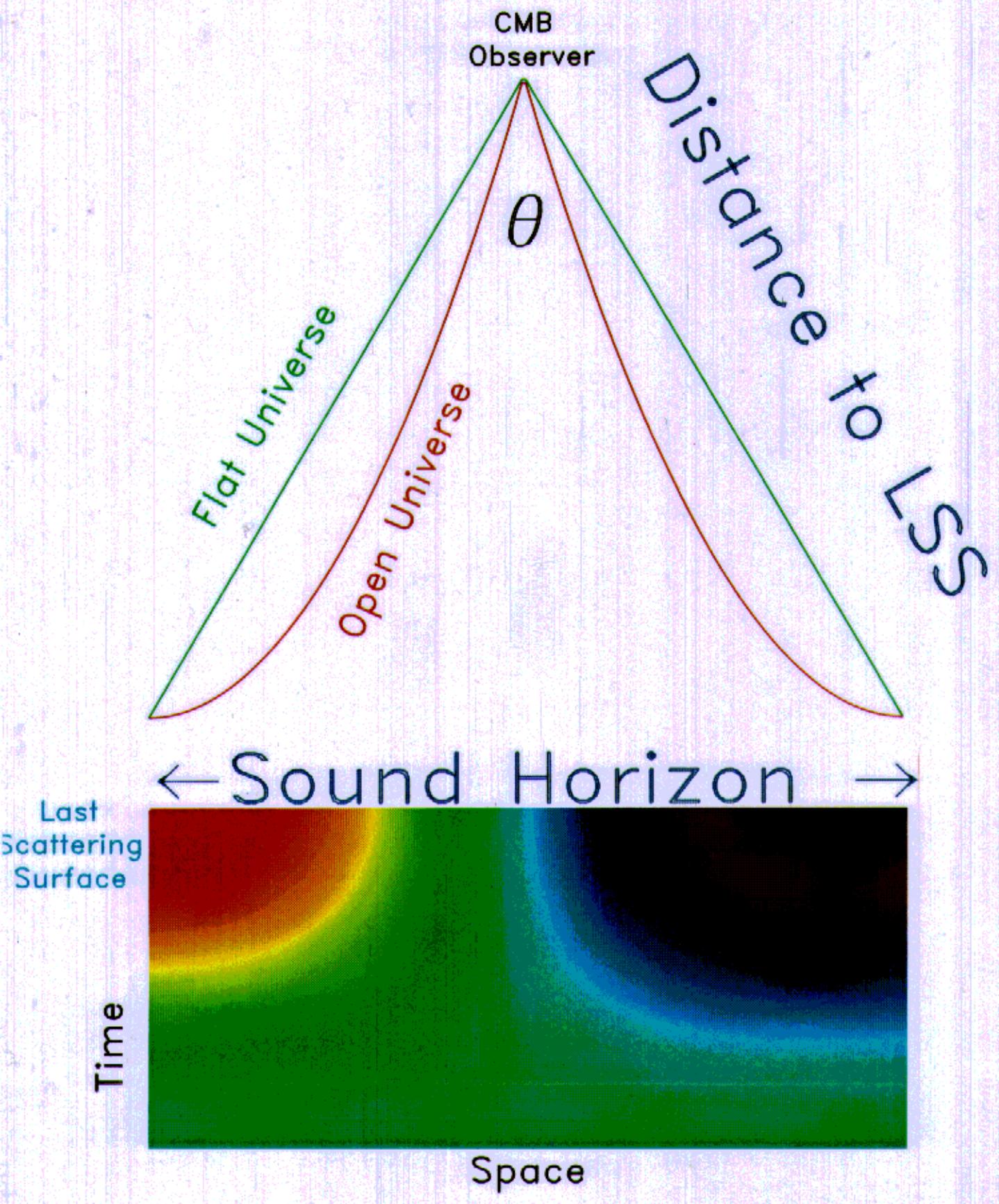
| ← Horizon Size → |

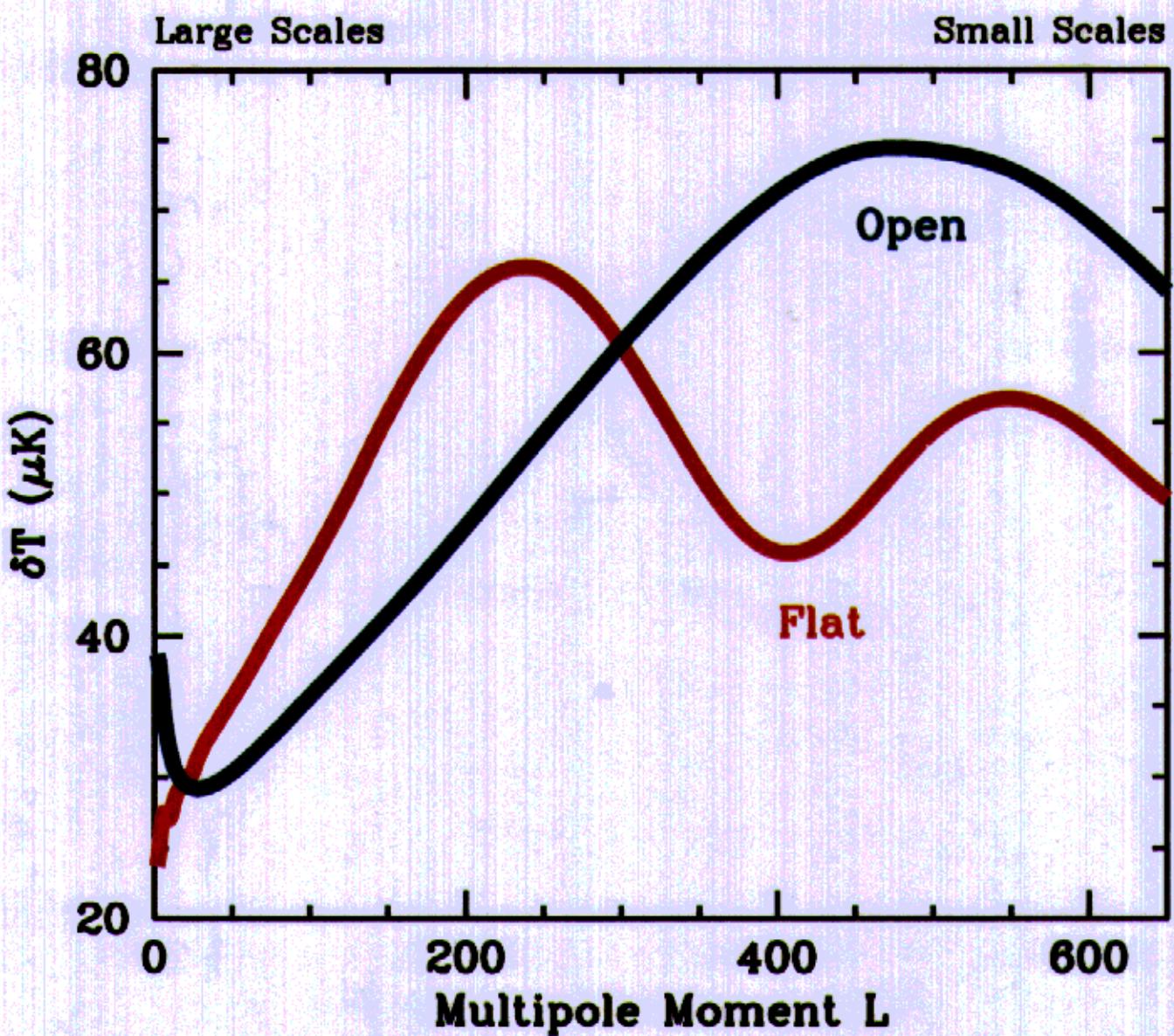
Last
Scattering
Surface



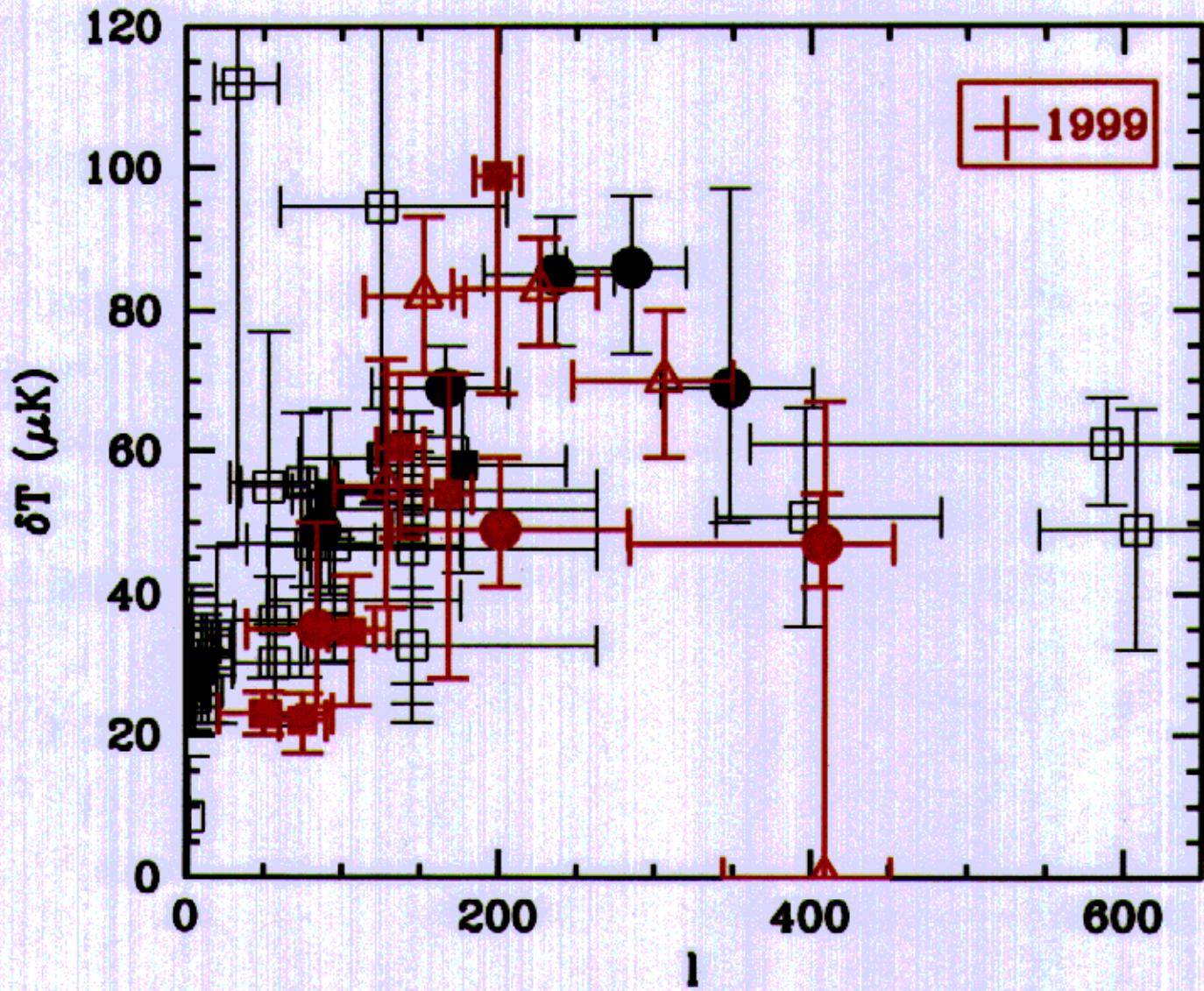
Second Doppler Peak



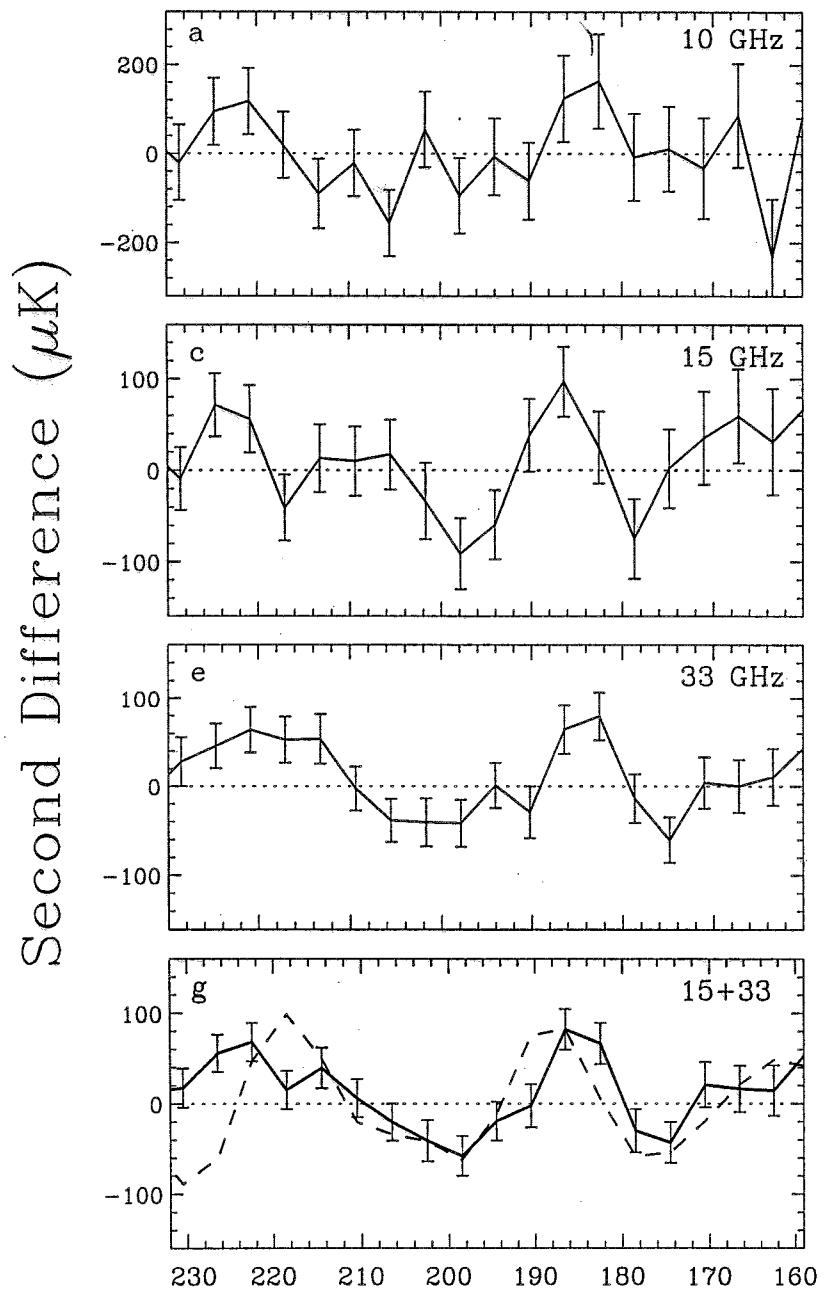




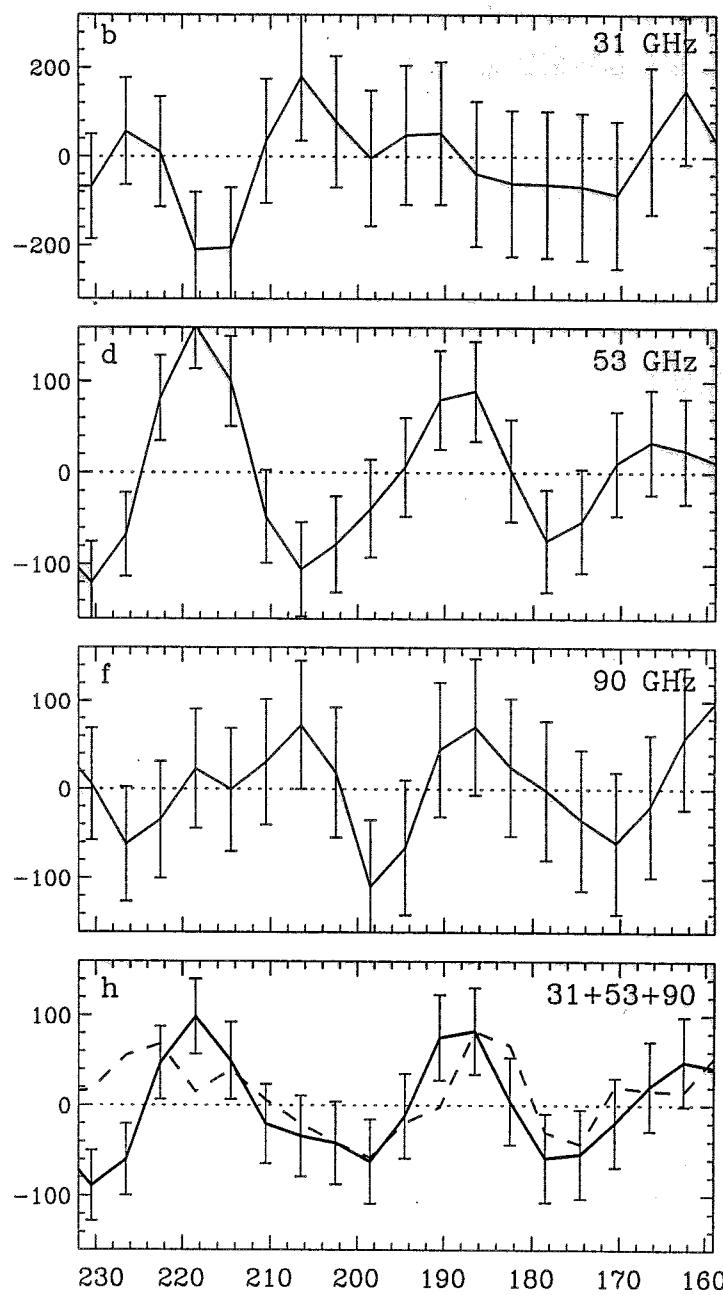
Current CMB Data



Tenerife Scans



DMR Scans

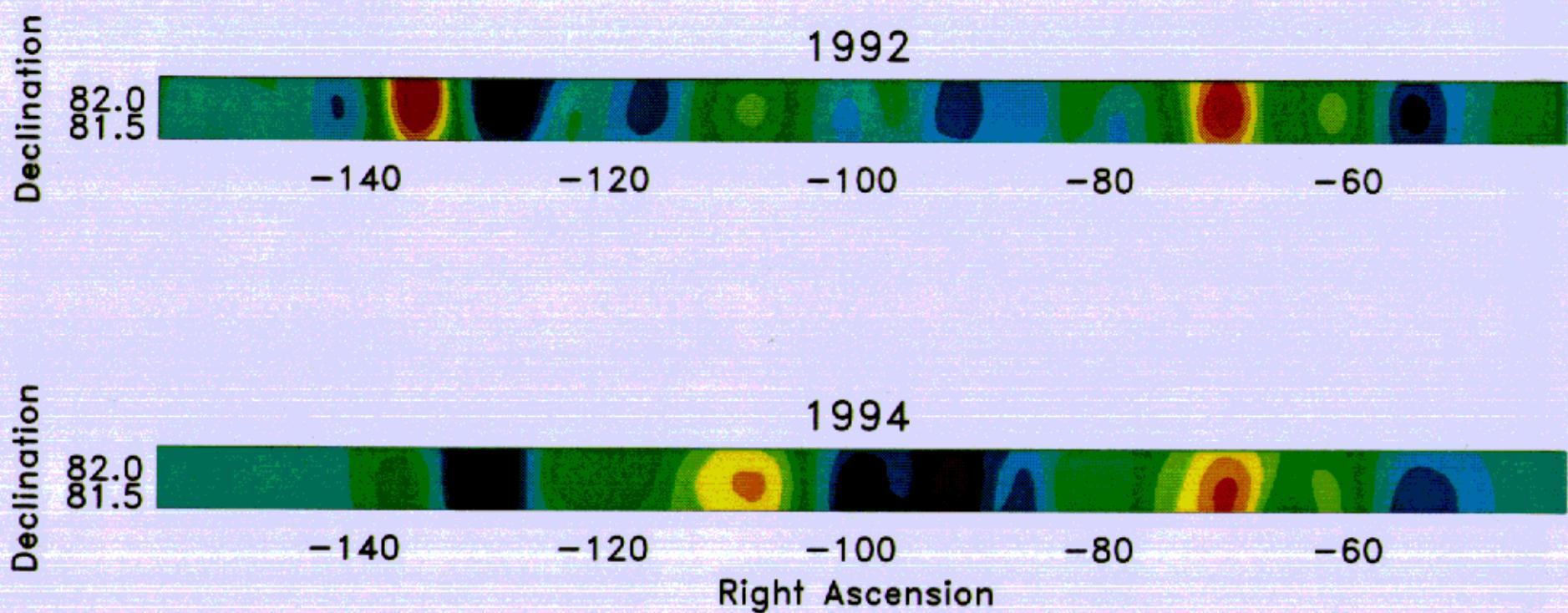


astro-ph/9411097 23 Nov 1994

MSAM

Balloon Bourne Bolometer

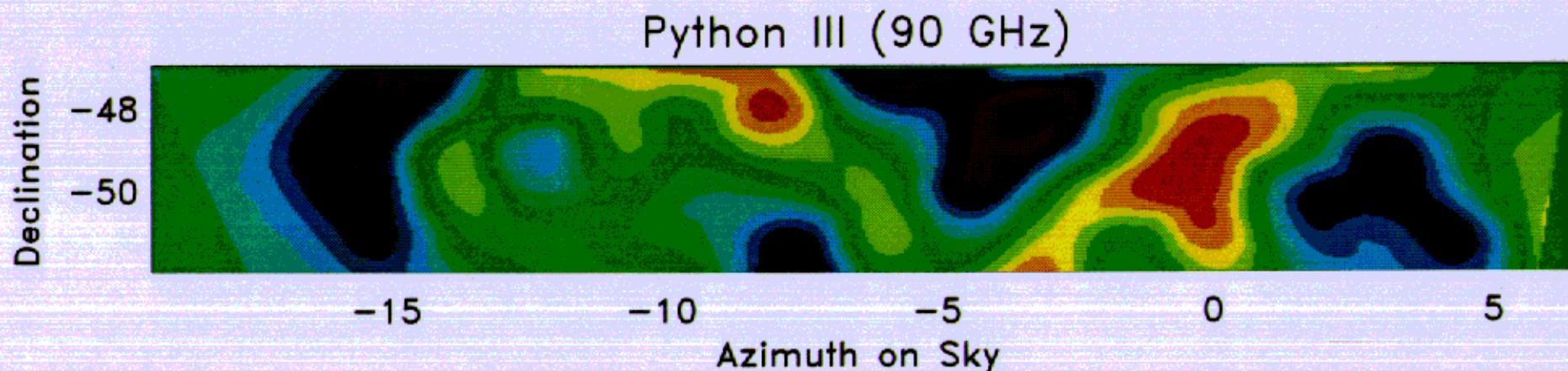
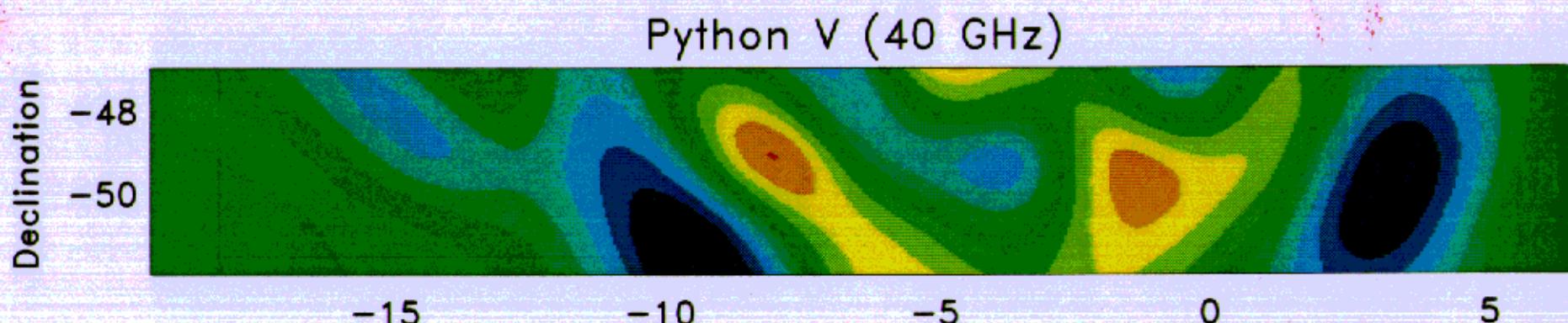
Cheng et al. (94)
Cheng et al. (96)
Fixsen et al. (96)
Cheng et al. (98)
Wilson et al. (99)

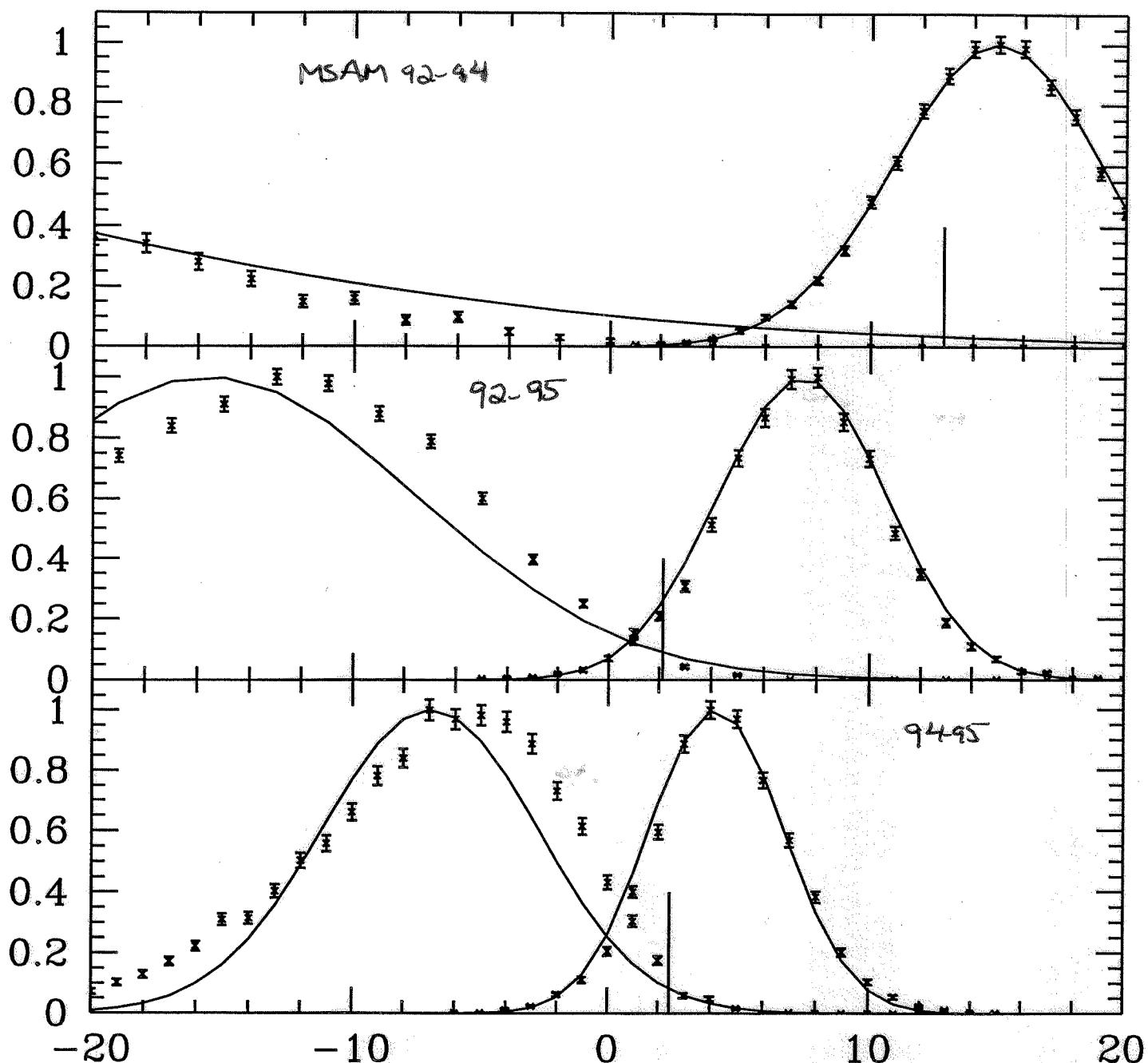


PYTHON

South Pole: Ground Based

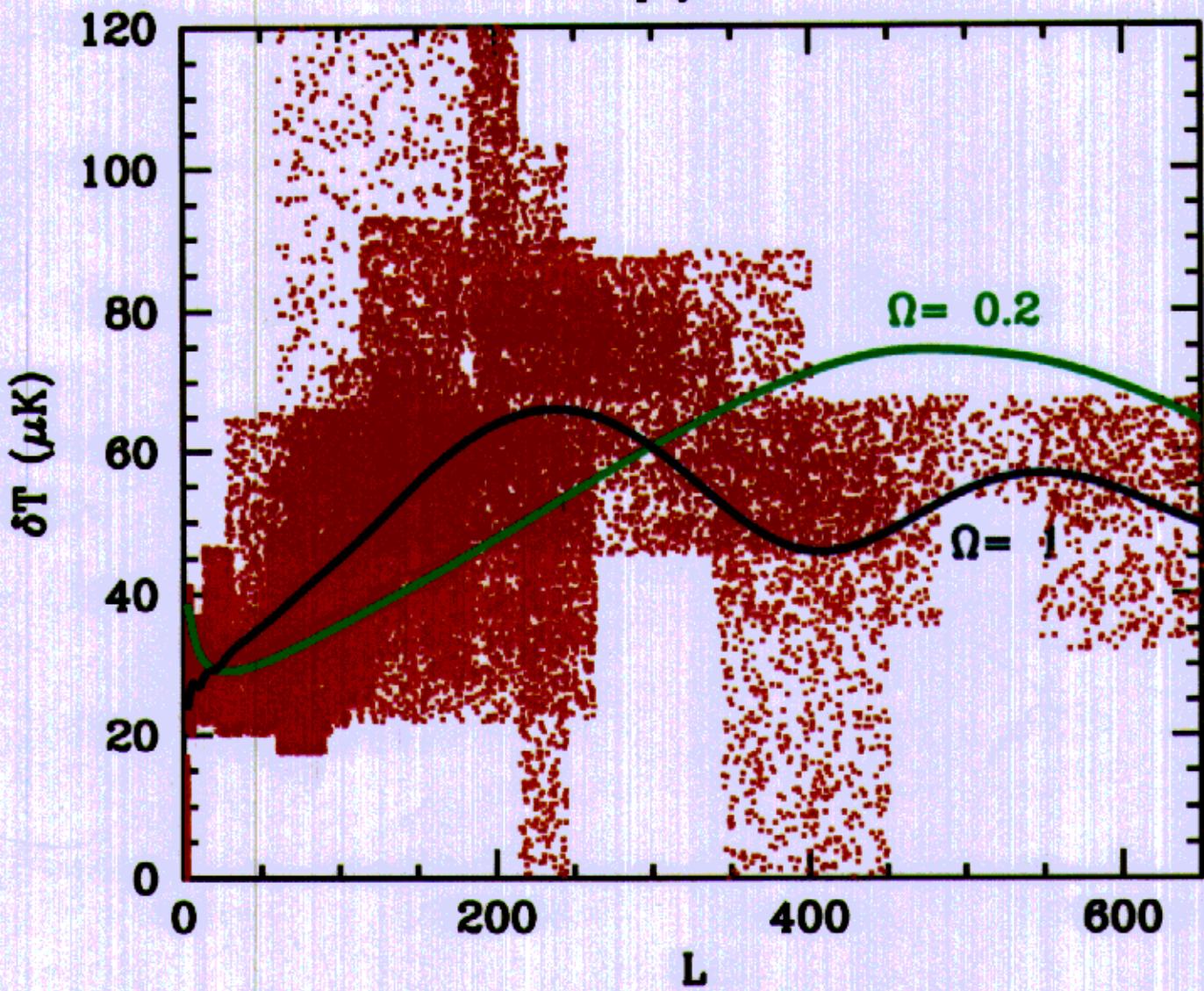
Platt et al. (97)
Coble et al. (99)





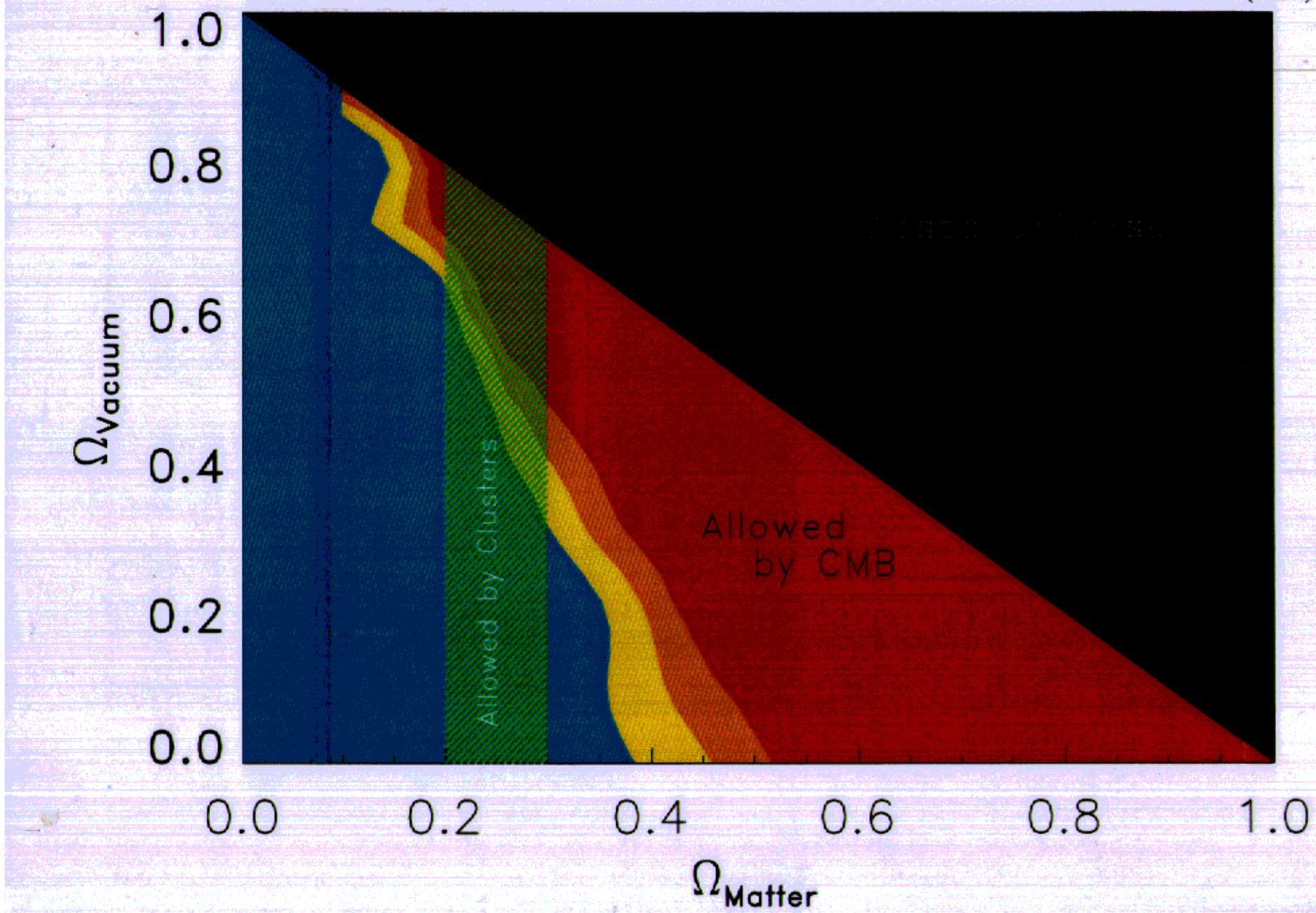
$$\beta = \frac{\ln P[\text{same signal}]}{P[\text{different signals}]}$$

CMB Data Imply a Flat Universe



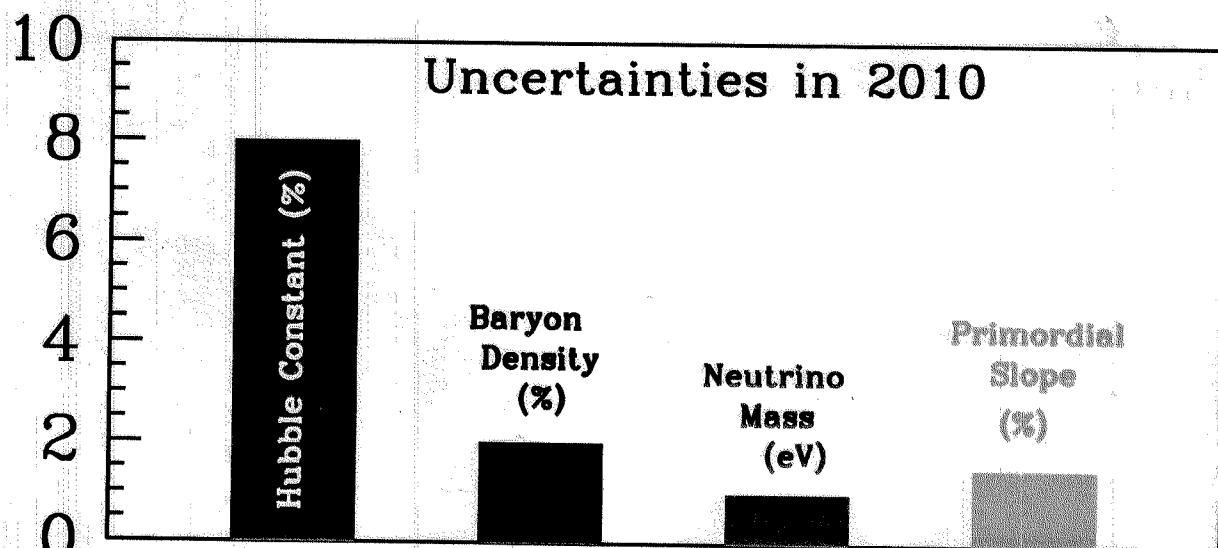
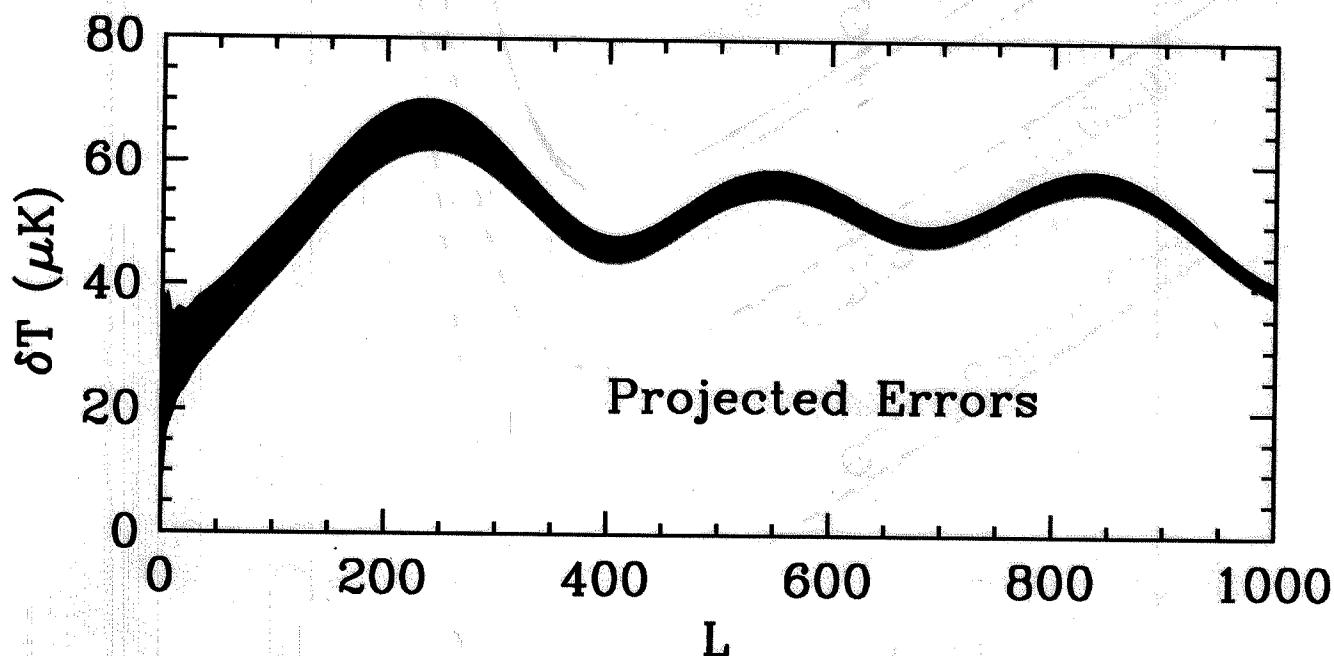
Tegmark (98)
Lineweaver (98)

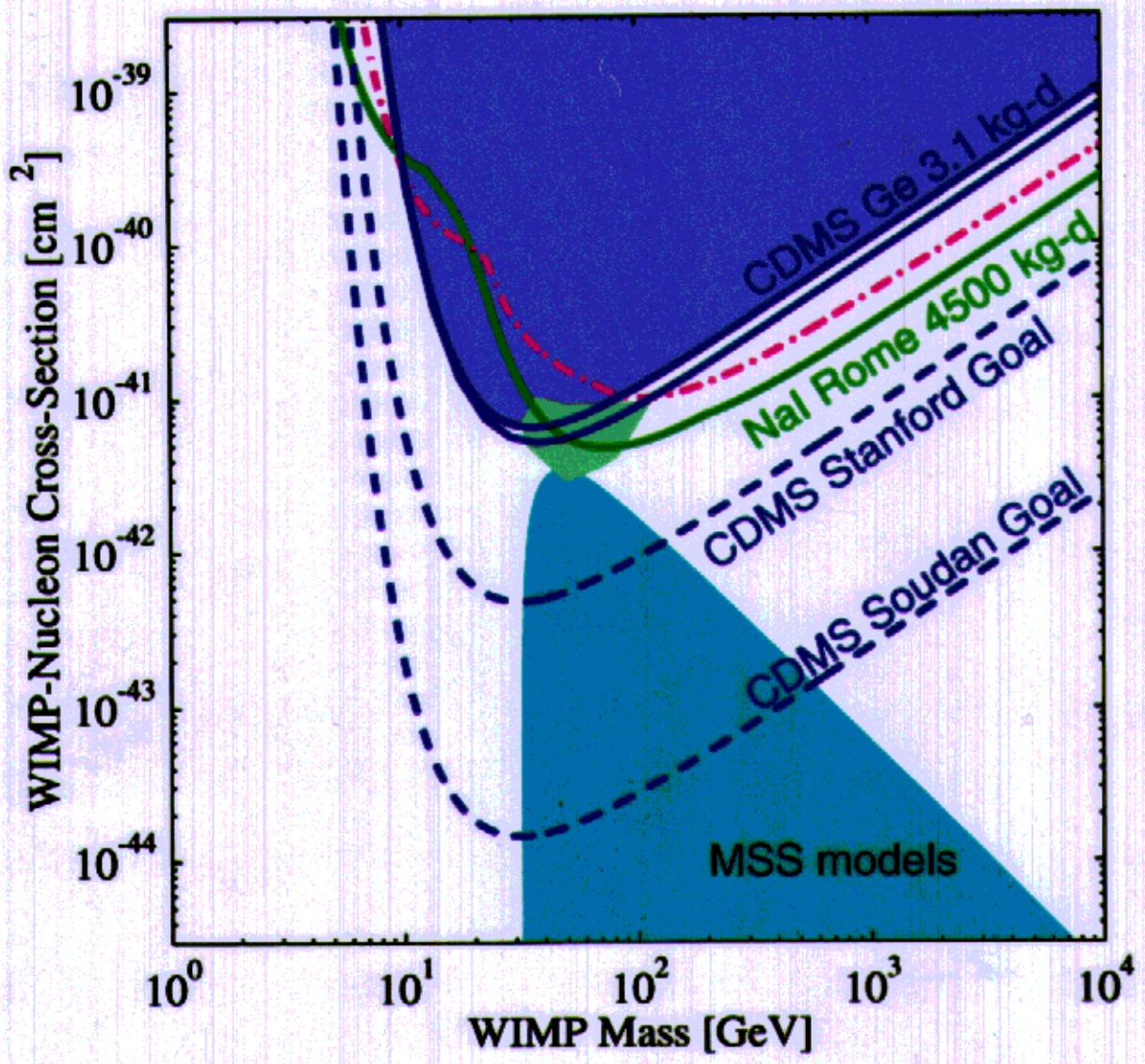
Dodelson & Knox (1999)



Ongoing/Planned Anisotropy Experiments

GROUND	BALLOON	SATELLITE
CAT	ACE	NASA
ATCA	BOOMERANG	MAP
CBI	BAM	ESA
DASI	MSAM	Planck
VSA	MAXIMA	
OVRO	BEAST	
SUZIE	TOPHAT	
Tenerife		
Viper		
CG		
MAT		





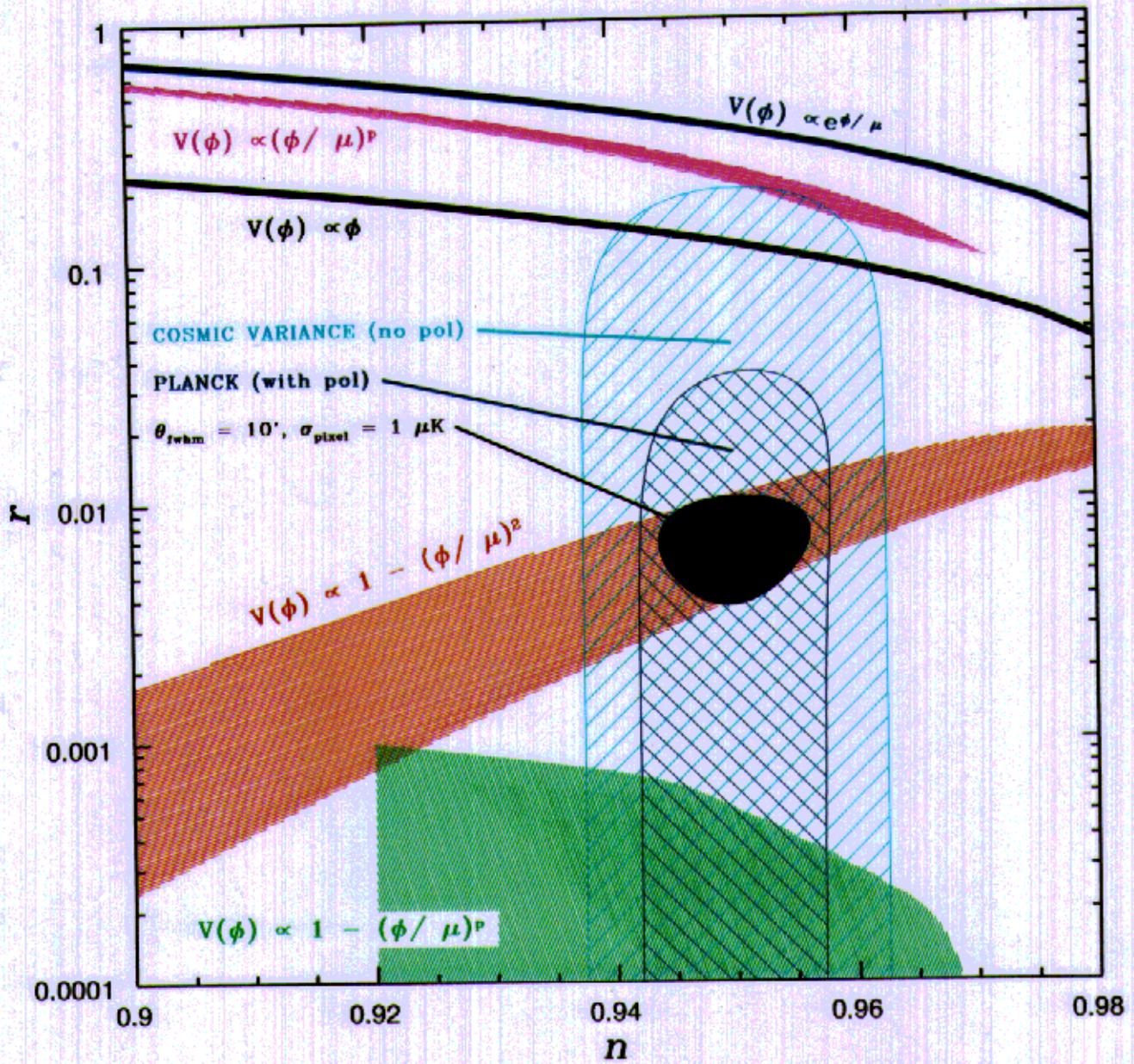


FIG. 8. The $r - n$ plane on a logarithmic scale, highlighting the predictions of small-field models. Error ellipses are for cosmic variance ($\sigma_{\text{pixel}}^T = 0$), Planck (with polarization), and a hypothetical experiment with the same $10'$ angular resolution as Planck but a factor of three higher sensitivity. This is sufficient to detect $r \sim 0.01$, which makes it possible to distinguish between $p = 2$ and $p > 2$ small-field models.

Tracking Models

Dodelson, Stewart, & Wang 99
Ferreira & Joyce 97
Frieman et al 95
Ratra 88
Coble et al 97
Caldwell, Dave, & Steinhardt 98
...

