

SMc = tilted Λ CDM + r (ζ, h_{+x})

BSMc = SMc + primordial anomalies

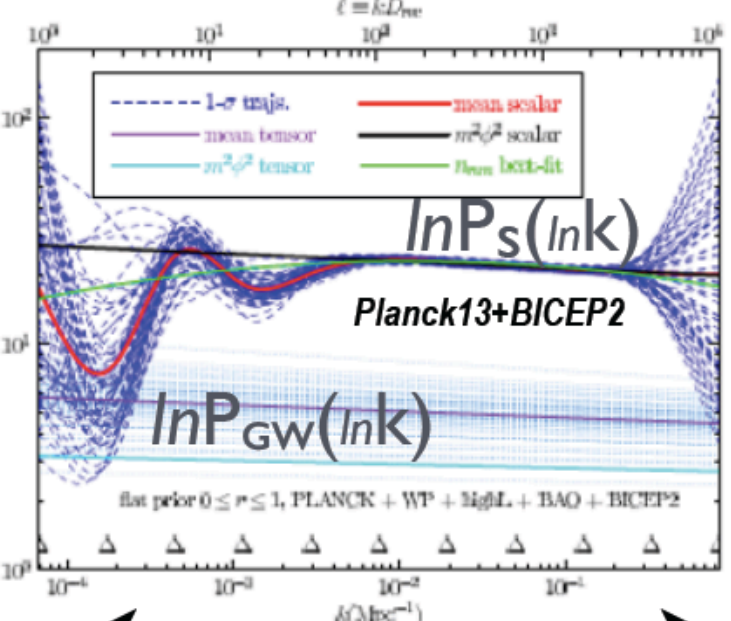
flat T,Q,U(v) ? a phenomenology
extremum cf. distributed stats
 linear, quadratic, trilinear TEB

UV complete \Leftrightarrow IR complete
 $\epsilon \sim 0$ to $\epsilon = 1$ heat \Rightarrow SMpp

$\approx 5,000,000$ modes of $t\Lambda$ CDM
 ≈ 500 modes of anomaly
 ≈ 100 modes reionization history
 the vast CMB-un-illuminated $\zeta_{LM}(d)$

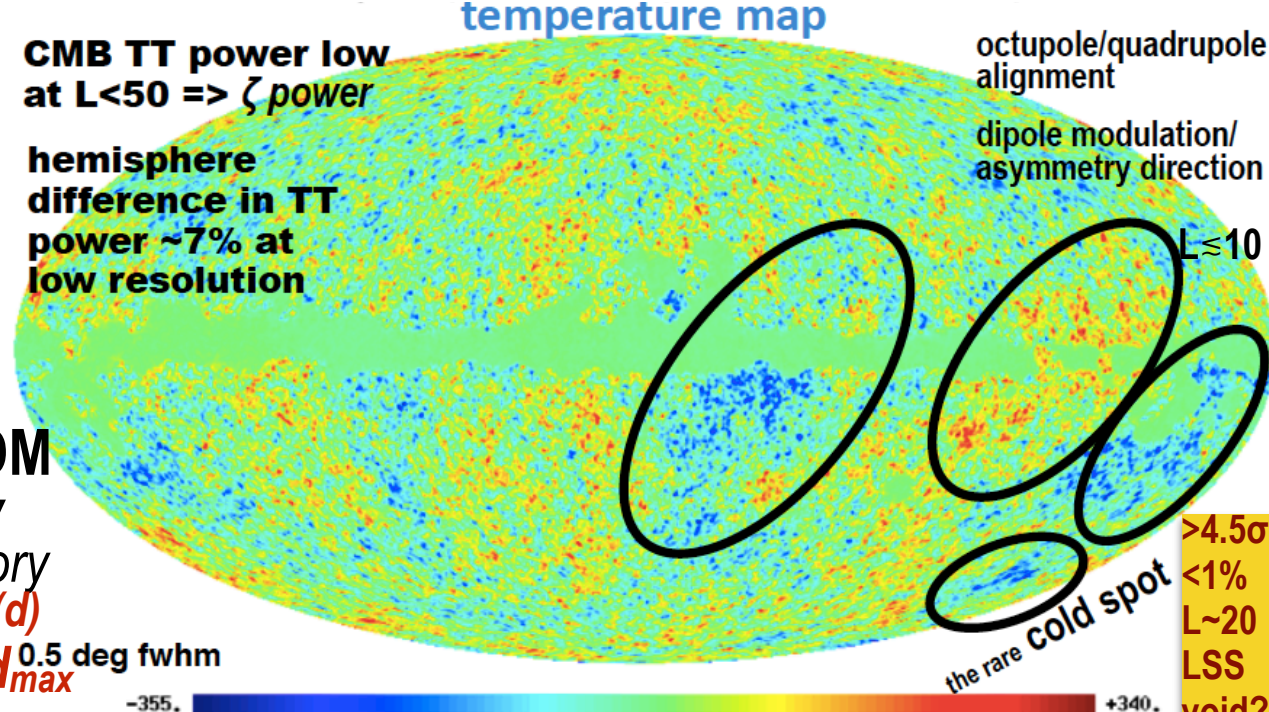
LSS tomography $f_{sky} L_{max}^2 k_{max} d_{max}$

$n_s = 0.962$ Planck+WP+hiL is superb from .01 to .2

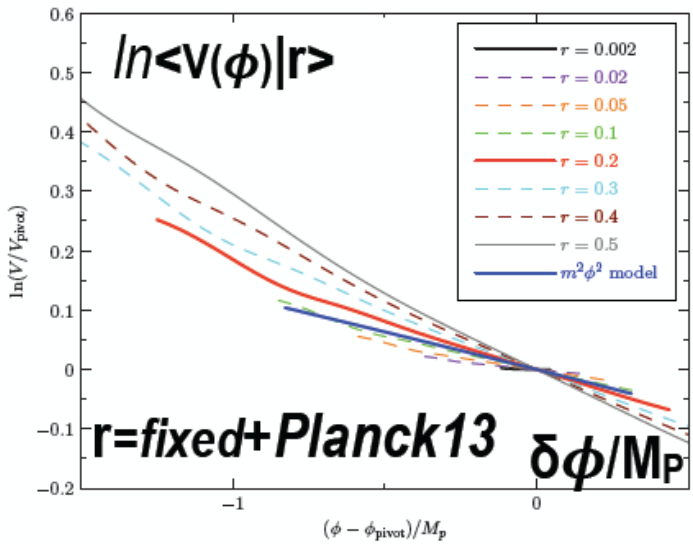


CMB TT power low at $L < 50 \Rightarrow \zeta$ power

hemisphere difference in TT power $\sim 7\%$ at low resolution



Grand Unified Theory of Anomalies? TBD
intermittent strain-power bursts (in curvature)?



future mean-V
 $\sigma(r) \sim .002$
 δV small-ish