Model-Independent Reionization

- All possible ionization histories at $z < 30$
- Detections at $20 < l < 30$ required to further constrain general ionization which widens the $\tau - n_s$ degeneracy allowing $n_s = 1$
- Quadrupole & octopole predicted to better than cosmic variance test $\Lambda$CDM for anomalies

Mortonson & Hu (2008)
• **Polarization** is a robust indicator of horizon scale power and disfavors suppression as explanation of low quadrupole independently of ionization or acceleration model.