

Summary

- **PC analysis** is a useful, general technique for imposing **functional constraints** in cosmology

Efficient, **observationally complete**

- Explore **observational consequences** within the **whole paradigm** rather than a **specific functional form** for $f(x)$

Ionization history $x_e(z)$

Inflaton potential $V(\phi)$

Dark energy equation of state $w(z)$

- Make **falsifiable predictions** for **new observables**

Polarization predictions for **low ℓ anomalies**

Polarization predictions for **single field inflation** beyond slow roll

Growth of structure predictions given distance measures