

What's to Like about Weak Lensing

Lensing in Theory:

- PURE GRAVITATIONAL PHYSICS! No baryonic physics.
- Sensitive to both $a(t)$ and growth factor
 - ↳ unlike CMB, both linear & non-linear
- $P(k)$ has low information content due to projection
- Ability to observe z slices & non-linear growth add information to $P(k, z)$
- Non-linear \Rightarrow non-Gaussian moments contain lots of info.
- Extreme tails of PDF (clusters) don't "light up" as in SE, X-ray.
- More pure-gravity N-body sims needed for theory

Beyond $\Lambda, w \dots$: lensing unveils relation between mass and baryons/light since $z \sim z$.

