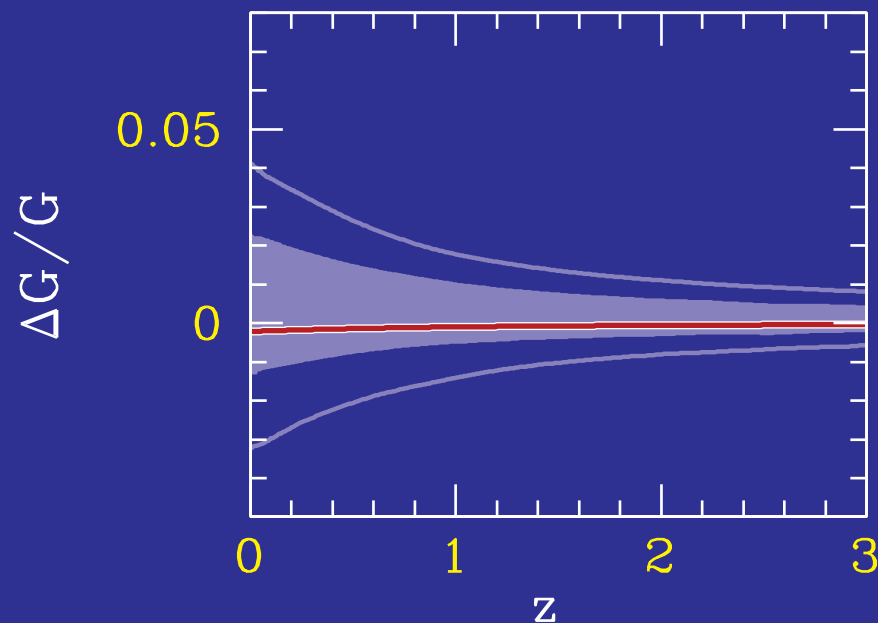


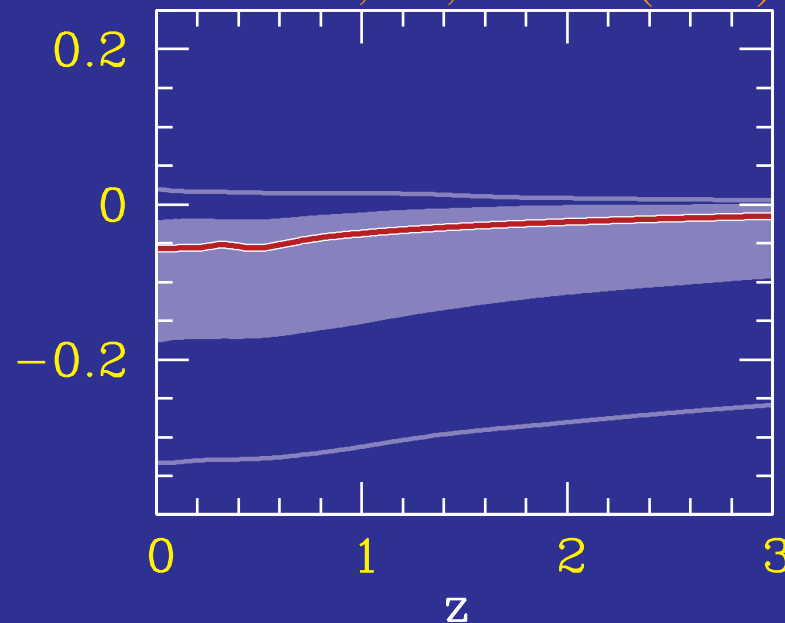
Falsifying Quintessence

- Dark energy slows growth of structure in highly predictive way

Mortonson, Hu, Huterer (2009)



Cosmological Constant



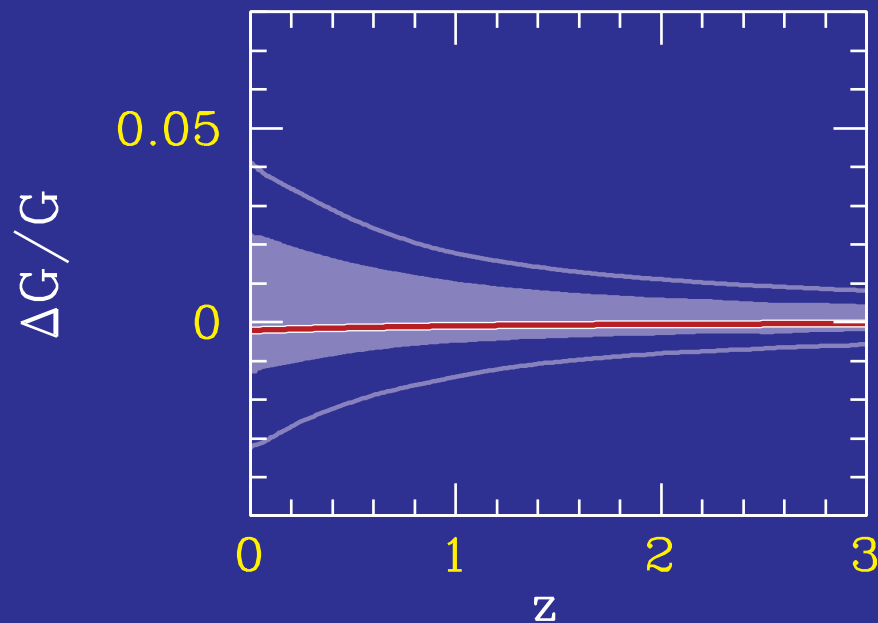
Quintessence

- Deviation significantly $>2\%$ rules out Λ with or without curvature
- Excess $>2\%$ rules out quintessence with or without curvature and early dark energy [as does $>2\%$ excess in H_0]

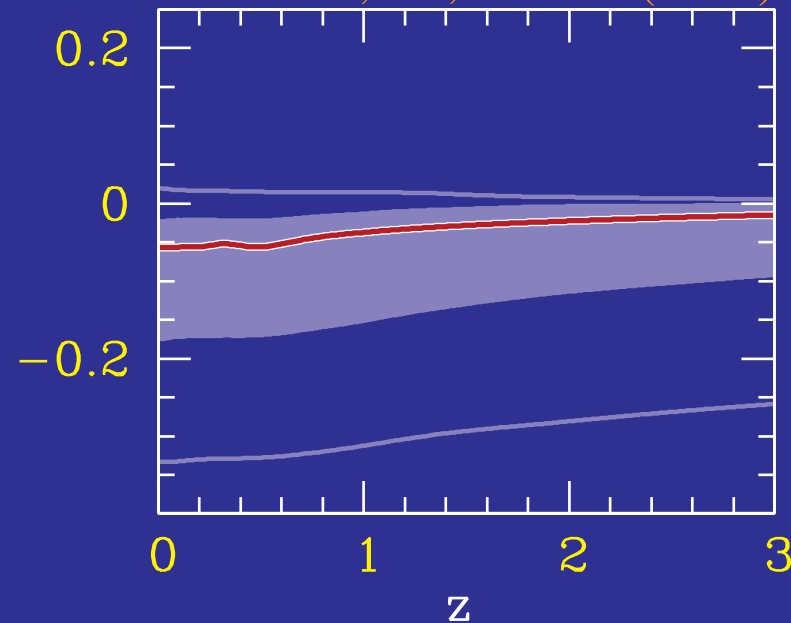
Dynamical Tests of Acceleration

- Dark energy slows growth of structure in highly predictive way

Mortonson, Hu, Huterer (2009)



Cosmological Constant



Quintessence

