



Contribution ID: 4

Type: **not specified**

## Dark energy and inhomogeneity

*Tuesday, April 19, 2011 4:10 PM (20 minutes)*

I discuss how the averaging problem confuses our potential understanding of dark energy by considering the backreaction from density perturbations to second-order in the concordance model: this effect leads to at least a 10% increase in the dynamical value of the deceleration parameter, and could be significantly higher. Large Hubble-scale inhomogeneity has not been investigated in much detail, and could conceivably be the cause of apparent cosmic acceleration. I discuss void models which defy the Copernican principle in our Hubble patch, and describe how we can potentially rule out these models.

**Primary author:** CLARKSON, Chris (University of Cape Town)

**Presenter:** CLARKSON, Chris (University of Cape Town)

**Session Classification:** Contributed Talks