### Spherical collapse



## Redshift space distortions





#### 500 Mpc/h

# Z = 18.3 or t = 0.21 Gy



Monday, 3 March 14



500 Mpc/h Z = 0 or t = 13.6 Gy

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## Testing the P-S formalism

- ✓ Define objects in a simulation (using a group finder).
- ✓ Measure their mass.
- ✓ Compare the resulting mass function to model predictions.

Result: Need ellipsoidal collapse

$$f_{\rm EC}(\nu) = A \left( 1 + \frac{1}{\hat{\nu}^{2q}} \right) f_{\rm PS}(\hat{\nu})$$
$$\hat{\nu} = 0.84\nu \qquad q = 0.3 \qquad A \approx 0.322$$

Sheth & Tormen (1999)

