

Homework 2:  
(Due: 10/4/07)

1. As discussed in Lecture 8 today on pg. 5, we made arguments about how most terms vanish in the integral

$$I = \int d\Omega' \int dp' p' \left( \frac{4}{3} + \frac{2}{3} P_2(\mu') \right) (\vec{p} - \vec{p}') \cdot \langle \vec{v}_b \rangle \frac{\partial \delta(p - p')}{\partial p'} [f^{(0)}(p') - f^{(0)}(p)].$$

Compute the non-vanishing component of this integral.

2. Dodelson pg. 113 #2
3. Dodelson pg. 113 #8
4. Dodelson pg. 115 #12a)
5. Dodelson pg. 136 #3