

P606 - Homework Set 8

Due **Wednesday Nov. 12** by 4:30pm

Note: Tuesday Nov. 11 is a holiday, and Wed Nov. 12 is a Tuesday class schedule

1) Reflection

Jackson 7.2

2) Angular Momentum carried by light

Jackson 7.27. When the electromagnetic field is quantized, this calculation shows that photons have helicity $\pm\hbar$.

4) The velocity transformation

Jackson 11.3.

4) Energy conservation

Jackson 11.19.