

Homework: Particle Physics

Yingsheng Huang

July 17, 2017

1. $\int_{-\infty}^{\infty} dk^0 \delta(k^2 - m^2) \theta(k^0) = \int_0^{\infty} \frac{dk^{02}}{2k^0} \delta(k^{02} - \omega^2) = \frac{1}{2\omega}$