Massachusetts Institute of Technology

Department of Physics

Course: 8.701 – Introduction to Nuclear and Particle Physics
Term: Fall 2020
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Discussion Problems
from recitation on **October 7th, 2020**

Problem 1:

Show that the adjoint spinor $\bar{u}$ and $\bar{v}$ satisfy $\bar{u}(\gamma^\mu p_\mu - m) = 0$ and $\bar{v}(\gamma^\mu p_\mu + m) = 0$.

Problem 2:

Show that the normalization condition simplifies to $\bar{u}u = -\bar{v}v = 2m$.

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