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Problem Set 4
PHY 781 - Spring 2016
Assigned: Wednesday, April 6 Due: Wednesday, Apr. 20

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Problem 1: Mott's Formula

Derive Mott's formula, which is given in Peskin, 5.1. (You do not need to derive it two different ways as is asked in Peskin, 5.1. Just do whatever is easiest for you.)

Problem 2: Bhabba Scattering

Peskin, Problem 5.2

Problem 3: Decays of Positronium Bound States

Read pp. 148-153 and then do Peskin, 5.4, **part a only**

Please write down how many hours you spent on this problem set.