

Problem assignment IV

Do problems 2.2 and 2.3 on pages 140 and 141 of the text.

† There is an error in problem 4 of Set III.

The corrected equation is

$$[c^2 p^2 + (mc^2 + V)^2] \psi + [c \boldsymbol{\alpha} \cdot \mathbf{p}, V(r)] \psi = E^2 \psi.$$

and the solutions depend upon spin.