Guilliths.

5.10

$$a = \frac{1}{157}, \quad mc^{2} = 0.5 \text{ MeV. for detron.}$$
 $j = \frac{3}{2}, \quad \frac{1}{4n^{2}} \left( \frac{2n}{j+2} - \frac{3}{2} \right) = \frac{1}{16} \left( \frac{4}{2} - \frac{3}{2} \right)$ 
 $= \frac{1}{16} \left( \frac{4}{2} \right) = \frac{3}{32}.$ 
 $= \frac{1}{16} \left( \frac{5}{2} \right) = \frac{5}{32}.$ 
 $= \frac{1}{16} \left( \frac{5}{2} \right) = \frac{5}{32}.$ 

For  $j = \frac{3}{2}$ , SE  $2 - \frac{1}{(157)^{4}} = \frac{1}{32} \times 5 \times 10^{5} \text{ eV}$ 

The  $j = \frac{1}{2}$ , SE  $2 - \frac{1}{(157)^{4}} = \frac{1}{32} \times 5 \times 10^{5} \text{ eV}$ 

The se are extremely small.