

PHY 982 - HW 1

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^{11}Be has 4 protons and 7 neutrons. According to the shell model, we would expect 2 neutrons in $1s_{1/2}$, 4 in $1p_{3/2}$ the 7th electron to be found in a $1p_{1/2}$ state; however, experimentally we find that the ground state of ^{11}Be is a $2s_{1/2}$ state.

Method

This is text in the Methods section.

$\frac{1}{4}$