



b) $|\tilde{0}^- \rangle = |0^- \rangle + 0.7 |(p_{1/2}, s_{1/2})_{1^-} \otimes 1^-; 0 \rangle$
 $+ 0.1 |(s_{1/2}, d_{5/2})_{2^+} \otimes 2^+; 0 \rangle$

$r_1 = 5 \text{ fm}$

