H.w. - ?

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$$d_{nee} : \frac{\alpha}{\sqrt{h^2 u k^2 p^2}} \qquad 2d \delta_{neo}(3=) \quad 0: \quad \delta_{net}\left(\frac{\lambda}{2d}\right)$$

$$for \quad h^2 k^2 p^2(1:3); \quad d_{ne} = \frac{\delta}{\sqrt{3}} =) \quad 0: \quad \delta_{net}\left(\frac{h \cdot S q x}{2 x \delta}\right) =$$

$$\delta_{ne}\left(\frac{1}{2} \frac{1}{2 x \delta}\right) = \frac{\delta}{\sqrt{3}} =) \quad 0: \quad \delta_{ne}\left(\frac{h \cdot S q x}{2 x \delta}\right) =$$

$$\delta_{ne}\left(\frac{1}{2} \frac{1}{2 x \delta}\right) = \frac{\delta}{\sqrt{3}} =) \quad 0: \quad \delta_{ne}\left(\frac{1}{2 x \delta}\right) =$$

$$k: = 8: \quad d_{220} = \frac{\delta}{\sqrt{3}} =) \quad 0: \quad \delta_{ne}\left(\frac{1}{2}\right) =$$

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$$\lambda_{e} : \sqrt{\frac{1}{80}} \hat{A} : \sqrt{\frac{1}{8}} \hat{A} \cdot \sqrt{\frac{1}{8}} \hat{A} \cdot \frac{1}{\sqrt{3}} \hat{A} \cdot \frac{1}{\sqrt{3}} \hat{A} = \frac{3 \cdot 5}{\sqrt{3}}$$

$$\theta : \int_{2\pi} \sqrt{\frac{1}{2}} \hat{A} = \int_{2\pi} \sqrt{\frac{1}{2}} \int_{2\pi} \sqrt{\frac{1}{2}} \frac{\sqrt{5}}{\sqrt{3}} \hat{A} \cdot \frac{\sqrt{5}}{\sqrt{3}} \hat$$

HW- 3 cont.

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5)  $U = -\frac{e^2}{4\pi l_0 R_e} \quad \text{in } J = -\frac{e}{4\pi l_0 R_e} \quad \text{in } eV$ Substituting value :.  $U = \frac{1.6 \times 10^{-18} \times 9 \times 10^{8}}{2 \times 10^{-18}} = -7.2 \text{ eV}.$ / xe(1.6x10") wijnele. - - 1.15 × 10-18 J days

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