









$$\frac{\hbar^2}{2m}$$





$$\frac{R_{nl}(r)}{r}$$





$$\frac{d^2R_{nl}(r)}{dr^2}$$





$$\frac{1}{\sin\theta}$$

$$\frac{\partial}{\partial \theta}$$



$$\frac{\partial Y_{lm}(\hat{\mathbf{r}})}{\partial \theta}$$



$$\frac{1}{\sin^2\theta}$$

$$\frac{\partial^2 Y_{lm}(\hat{\mathbf{r}})}{\partial \phi^2}$$



$$\frac{1}{r^3}$$



$$\frac{l(l+1)}{r^2}$$







$$\frac{R_{nl}^2(r)}{4\pi r^2}$$



$$\frac{\partial \psi}{\partial r}$$

$$\frac{\partial \psi}{\partial \theta}$$

$$\frac{1}{r\sin\theta}$$

$$\frac{\partial \psi}{\partial \phi}$$



$$\frac{\partial^2}{\partial r^2}$$

$$\frac{1}{r^2 \sin \theta}$$





$$\frac{1}{r^2 \sin^2 \theta}$$

$$\frac{\partial^2 \psi}{\partial \phi^2}$$



$$\frac{d}{dr}$$











$$\frac{R_{nlj}^2(r) + S_{nlj}^2(r)}{4\pi r^2}$$





$$\frac{\alpha^2}{4M(r)}$$

$$\frac{dV(r)}{dr}$$



$$\frac{dR_{nl}(r)}{dr}$$



$$\frac{\alpha^2}{4}$$



$$\frac{df(r)}{dr}$$

$$\frac{df(x)}{dx}$$

$$\frac{d^2f(r)}{dr^2}$$

$$\frac{1}{r^2}$$

$$\frac{d^2f(x)}{dx^2}$$

$$\frac{d^2R_{nl}(x)}{dx^2}$$

$$\frac{dR_{nl}(x)}{dx}$$





$$\frac{l\sqrt{l^2 - \alpha^2 Z^2} + (l+1)\sqrt{(l+1)^2 - \alpha^2 Z^2}}{2l+1}$$

$$\sqrt{\frac{l(l+1)}{r^2} + (V(r) - \epsilon)}$$

$$\frac{dR_{nl}(r_t^+)}{dr}$$

$$\frac{dR_{nl}(r_t^-)}{dr}$$

$$\frac{d^2\widetilde{R}_{nl}(r)}{dr^2}$$

$$\frac{A}{R_{nl}(r_t)}$$



$$\frac{d^n R^{ps}(r_c)}{dr^n}$$

$$\frac{d^n R(r_c)}{dr^n}$$

$$\frac{R(r_c)}{r_c^{l+1}}$$

$$\frac{dR^{ps}(r)}{dr}$$

$$\frac{dR(r_c)}{dr}$$

$$\frac{1}{R^{ps}(r_c)}$$

$$\frac{l+1}{r_c}$$

$$\frac{d^2R^{ps}(r)}{d^2r}$$





$$\frac{2(l+1)}{r}$$



$$\frac{d^2R^{ps}(r)}{dr^2}$$







$$\frac{1}{R^{ps}(r)}$$













