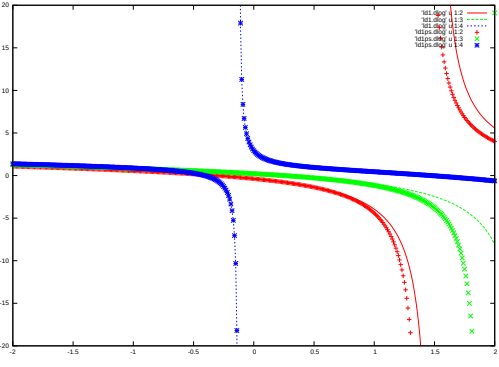
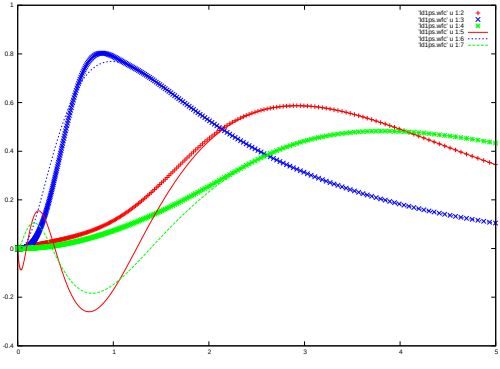
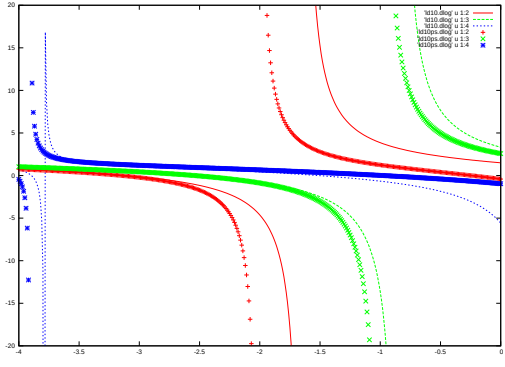
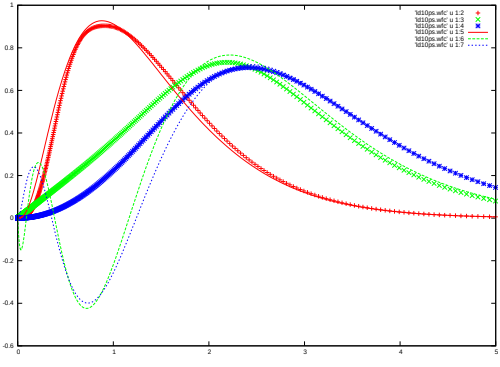

'd1.dog' u 1:2
'd1.dog' u 1:3
'd1.dog' u 1:4
'd1ps.dog' u 1:2
'd1ps.dog' u 1:3
'd1ps.dog' u 1:4
20
15
10
5
0
-5
-10
-15
-20
-2
-1.5
-1
-0.5
0
0.5
1
1.5
2

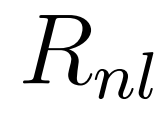

'ktips.wfc' u 1:2
'ktips.wfc' u 1:3
'ktips.wfc' u 1:4
'ktips.wfc' u 1:5
'ktips.wfc' u 1:6
'ktips.wfc' u 1:7
1
0.8
0.6
0.4
0.2
0
-0.2
-0.4
0
1
2
3
4
5


'd10.dlog' u 1:2
'd10.dlog' u 1:3
'd10.dlog' u 1:4
'd10ps.dlog' u 1:2
'd10ps.dlog' u 1:3
'd10ps.dlog' u 1:4
20
15
10
5
0
-5
-10
-15
-20
-4
-3.5
-3
-2.5
-2
-1.5
-1
-0.5
0


'td10ps.wfc' u 1:2
'td10ps.wfc' u 1:3
'td10ps.wfc' u 1:4
'td10ps.wfc' u 1:5
'td10ps.wfc' u 1:6
'td10ps.wfc' u 1:7
1
0.8
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
0
1
2
3
4
5

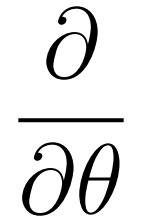
$$\frac{\hbar^2}{2m}$$

r



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

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



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

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

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

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

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

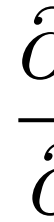
$$\frac{l(l+1)}{r^2}$$


nlm

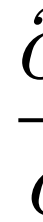
2


nl

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

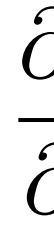


$$\frac{\partial \psi}{\partial r}$$

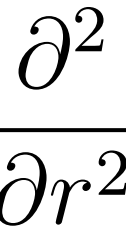


$$\frac{\partial \psi}{\partial \theta}$$

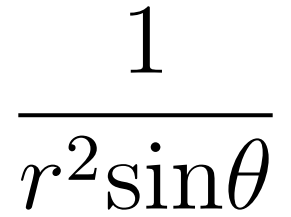
$$\frac{1}{r\sin\theta}$$



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



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



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

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

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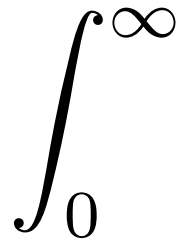
$\sum_{nlj}$

$$\frac{R^2_{nlj}(r) + S^2_{nlj}(r)}{4\pi r^2}$$

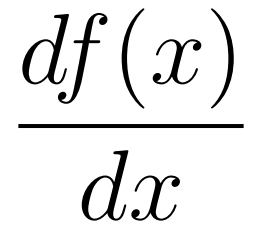
$$\frac{\alpha^2}{4M(r)}$$

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

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



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



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

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

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

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

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

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

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

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

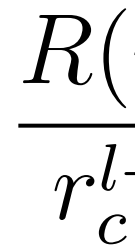
$$\frac{dR_{nl}(r_t^-)}{dr}$$

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

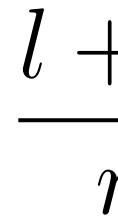
$$\frac{A}{R_{nl}(r_t)}$$

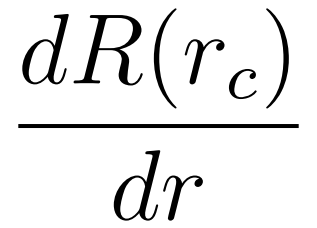
$$\frac{d^n R^{ps}(r_c)}{dr^n}$$

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

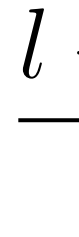


$$\frac{dR^{ps}(r)}{dr}$$





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

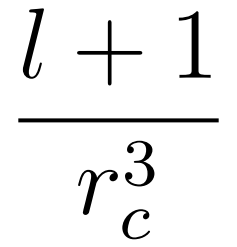


$$\frac{d^2 R^{ps}(r)}{d^2 r}$$

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

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

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



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

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