Slater\_Latex 备份

E\_{s,s}=V\_{ss\sigma }

E\_{s,x}=lV\_{sp\sigma }

E\_{x,x}=l^{2}V\_{pp\sigma }+(1-l^{2})V\_{pp\pi }

E\_{x,y}=lmV\_{pp\sigma }-lmV\_{pp\pi }

E\_{x,z}=lnV\_{pp\sigma }-lnV\_{pp\pi }

E\_{s,xy}={\sqrt {3}}lmV\_{sd\sigma }

E\_{s,x^{2}-y^{2}}={\frac {\sqrt{3}}{2}} (l^{2}-m^{2})V\_{sd\sigma }

E\_{s,3z^{2}-r^{2}}=[n^{2}-(l^{2}+m^{2})/2]V\_{sd\sigma }

E\_{x,xy}={\sqrt {3}}l^{2}mV\_{pd\sigma }+m(1-2l^{2})V\_{pd\pi }

E\_{x,yz}={\sqrt {3}}lmnV\_{pd\sigma }-2lmnV\_{pd\pi }

E\_{x,zx}={\sqrt {3}}l^{2}nV\_{pd\sigma }+n(1-2l^{2})V\_{pd\pi }

E\_{x,x^{2}-y^{2}}={\frac {\sqrt {3}}{2}}l(l^{2}-m^{2})V\_{pd\sigma }+l(1-l^{2}+m^{2})V\_{pd\pi }

E\_{y,x^{2}-y^{2}}={\frac {\sqrt {3}}{2}}m(l^{2}-m^{2})V\_{pd\sigma }-m(1+l^{2}-m^{2})V\_{pd\pi }

E\_{z,x^{2}-y^{2}}={\frac {\sqrt {3}}{2}}n(l^{2}-m^{2})V\_{pd\sigma }-n(l^{2}-m^{2})V\_{pd\pi }

E\_{x,3z^{2}-r^{2}}=l[n^{2}-(l^{2}+m^{2})/2]V\_{pd\sigma }-{\sqrt {3}}ln^{2}V\_{pd\pi }

E\_{y,3z^{2}-r^{2}}=m[n^{2}-(l^{2}+m^{2})/2]V\_{pd\sigma }-{\sqrt {3}}mn^{2}V\_{pd\pi }

E\_{z,3z^{2}-r^{2}}=n[n^{2}-(l^{2}+m^{2})/2]V\_{pd\sigma }+{\sqrt {3}}n(l^{2}+m^{2})V\_{pd\pi }

E\_{xy,xy}=3l^{2}m^{2}V\_{dd\sigma }+(l^{2}+m^{2}-4l^{2}m^{2})V\_{dd\pi }+(n^{2}+l^{2}m^{2})V\_{dd\delta }

E\_{xy,yz}=3lm^{2}nV\_{dd\sigma }+ln(1-4m^{2})V\_{dd\pi }+ln(m^{2}-1)V\_{dd\delta }

E\_{xy,zx}=3l^{2}mnV\_{dd\sigma }+mn(1-4l^{2})V\_{dd\pi }+mn(l^{2}-1)V\_{dd\delta }

E\_{xy,x^{2}-y^{2}}={\frac {3}{2}}lm(l^{2}-m^{2})V\_{dd\sigma }+2lm(m^{2}-l^{2})V\_{dd\pi }+[lm(l^{2}-m^{2})/2]V\_{dd\delta }

E\_{yz,x^{2}-y^{2}}={\frac {3}{2}}mn(l^{2}-m^{2})V\_{dd\sigma }-mn[1+2(l^{2}-m^{2})]V\_{dd\pi }+mn[1+(l^{2}-m^{2})/2]V\_{dd\delta }

E\_{zx,x^{2}-y^{2}}={\frac {3}{2}}nl(l^{2}-m^{2})V\_{dd\sigma }+nl[1-2(l^{2}-m^{2})]V\_{dd\pi }-nl[1-(l^{2}-m^{2})/2]V\_{dd\delta }

E\_{xy,3z^{2}-r^{2}}={\sqrt {3}}\left[lm(n^{2}-(l^{2}+m^{2})/2)V\_{dd\sigma }-2lmn^{2}V\_{dd\pi }+[lm(1+n^{2})/2]V\_{dd\delta }\right]

E\_{yz,3z^{2}-r^{2}}={\sqrt {3}}\left[mn(n^{2}-(l^{2}+m^{2})/2)V\_{dd\sigma }+mn(l^{2}+m^{2}-n^{2})V\_{dd\pi }-[mn(l^{2}+m^{2})/2]V\_{dd\delta }\right]

E\_{zx,3z^{2}-r^{2}}={\sqrt {3}}\left[ln(n^{2}-(l^{2}+m^{2})/2)V\_{dd\sigma }+ln(l^{2}+m^{2}-n^{2})V\_{dd\pi }-[ln(l^{2}+m^{2})/2]V\_{dd\delta }\right]

E\_{x^{2}-y^{2},x^{2}-y^{2}}={\frac {3}{4}}(l^{2}-m^{2})^{2}V\_{dd\sigma }+[l^{2}+m^{2}-(l^{2}-m^{2})^{2}]V\_{dd\pi }+[n^{2}+(l^{2}-m^{2})^{2}/4]V\_{dd\delta }

E\_{x^{2}-y^{2},3z^{2}-r^{2}}={\sqrt {3}}\left[(l^{2}-m^{2})[n^{2}-(l^{2}+m^{2})/2]V\_{dd\sigma }/2+n^{2}(m^{2}-l^{2})V\_{dd\pi }+[(1+n^{2})(l^{2}-m^{2})/4]V\_{dd\delta }\right]

E\_{3z^{2}-r^{2},3z^{2}-r^{2}}=[n^{2}-(l^{2}+m^{2})/2]^{2}V\_{dd\sigma }+3n^{2}(l^{2}+m^{2})V\_{dd\pi }+{\frac {3}{4}}(l^{2}+m^{2})^{2}V\_{dd\delta }