

WI	hat did we have for the c	harge-charge in	teraction:			
order	multipole moment / field	first order quasi moment / quasi field		second order quasi moment / quasi field		
O(0)	$\left. \begin{array}{c} M \propto r^0 Y_{00} \\ V \propto v(0) \end{array} \right\} MI [a]$	$\tilde{M}^{(1)} \propto \{r^2 Y_{00}\}$ $\tilde{V}^{(1)} \propto \Delta v(0)$	MS ⁽¹⁾ [d]	$\tilde{M}^{(2)} \propto \{r^4 Y_{00}\}$ $\tilde{V}^{(2)} \propto \Delta^2 v(0)$	MS ⁽²⁾	
O(2)	$\left. \begin{array}{c} Q \propto r^2 Y_{20} \\ V_{ij} \propto \partial_{ij} v(0) \end{array} \right\} \mathrm{QI} [\mathrm{b}] \end{array}$	$\tilde{Q}^{(1)} \propto \{r^4 Y_{20}\}$ $\tilde{V}^{(1)}_{ij} \propto \partial_{ij} \Delta v(0)$	QS ⁽¹⁾ [e]	$\tilde{Q}^{(2)} \propto \{r^{6}Y_{20}\}$ $\tilde{V}^{(2)}_{ij} \propto \partial_{ij}\Delta^{2}v(0)$	QS ⁽²⁾	
O(4)	$\left. \begin{array}{c} H \propto r^4 Y_{40} \\ V_{ijkl} \propto \partial_{ijkl} v(0) \end{array} \right\} \mathrm{HDI} [\mathrm{c}] \end{array}$	$\hat{H}^{(1)} \propto \{r^{6}Y_{40}\}$ $\hat{V}^{(1)}_{ijkl} \propto \partial_{ijkl}\Delta v(0)$	HDS ⁽¹⁾	$\hat{H}^{(2)} \propto \{r^8 Y_{40}\}$ $\hat{V}^{(2)}_{ijkl} \propto \partial_{ijkl} \Delta^2 v(0)$	HDS ⁽²⁾	
	Oth order contr	ibution for a poir	at nucleus	_448		
***	0 th order contr	ibution for a poir	nt nucleus			

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	hat did we have for the c	harge-charge interaction:		
rder	multipole moment / field	first order quasi moment / quasi field	second order quasi moment / quasi field	
2(0)	$\begin{pmatrix} M \propto r^0 Y_{00} \\ V \propto v(0) \end{pmatrix}$ MI [a]	$\frac{\hat{M}^{(1)} \propto \{r^2 Y_{00}\}}{\tilde{V}^{(1)} \propto \Delta v(0)}$ MS ⁽¹⁾ [d]	$\frac{\tilde{M}^{(2)} \propto \{r^4 Y_{00}\}}{\tilde{V}^{(2)} \propto \Delta^2 v(0)}$ MS ⁽²⁾	
9(2)	$\left. \begin{array}{c} Q \propto r^2 Y_{20} \\ V_{ij} \propto \partial_{ij} v(0) \end{array} \right\} \mathrm{QI} [\mathrm{b}] \end{array}$	$\left \begin{array}{c} Q^{(1)} \propto \{r^{*}Y_{20}\} \\ \tilde{V}_{ij}^{(1)} \propto \partial_{ij}\Delta v(0) \end{array} \right QS^{(1)}[e]$	$\frac{\hat{Q}^{(2)} \propto \{r^{6}Y_{20}\}}{\hat{V}_{ij}^{(2)} \propto \partial_{ij}\Delta^{2}v(0)}$ QS ⁽²⁾	
2(4)	$\left. \begin{array}{c} H \propto r^4 Y_{40} \\ V_{ijkl} \propto \partial_{ijkl} v(0) \end{array} \right\} \mathrm{HDI} [\mathrm{c}] \end{array}$	$\left. \begin{array}{c} \hat{H}^{(1)} \propto \{r^{6}Y_{40}\} \\ \hat{V}^{(1)}_{ijkl} \propto \partial_{ijkl}\Delta v(0) \end{array} \right\} \text{HDS}^{(1)}$	$\left. \begin{array}{c} \hat{H}^{(2)} \propto \{ r^{s} Y_{40} \} \\ \hat{V}^{(2)}_{ijkl} \propto \partial_{ijkl} \Delta^{2} v(0) \end{array} \right\} HDS^{0}$	ŋ
	***	***	.+++	
	$- rac{eZ}{6\epsilon_0} ho_e(0)$	$\left< r_n^2 \right>$	iap (or extended huclet	is)

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