Plots for Alpha Formation in Mostly Neutron Matter

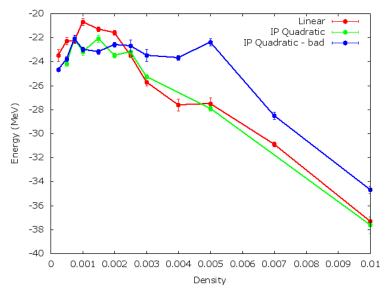
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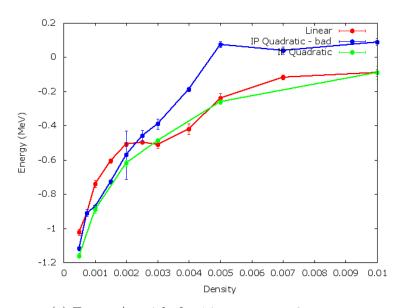
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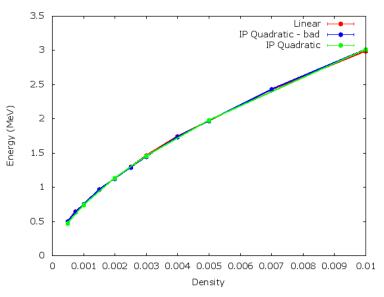
1 Total Energy Plots for Alpha, 14n, and 14n2p



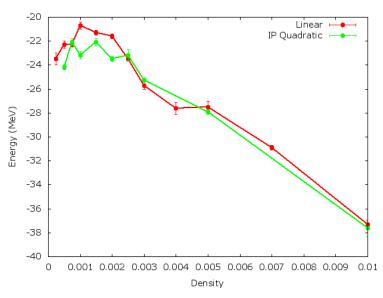
(a) Alpha energy calculated as $16\epsilon_{14n2p}-12\epsilon_{14n}$ where $\epsilon=E/A$.



(c) Energy/particle for 14 neutrons + 2 protons.

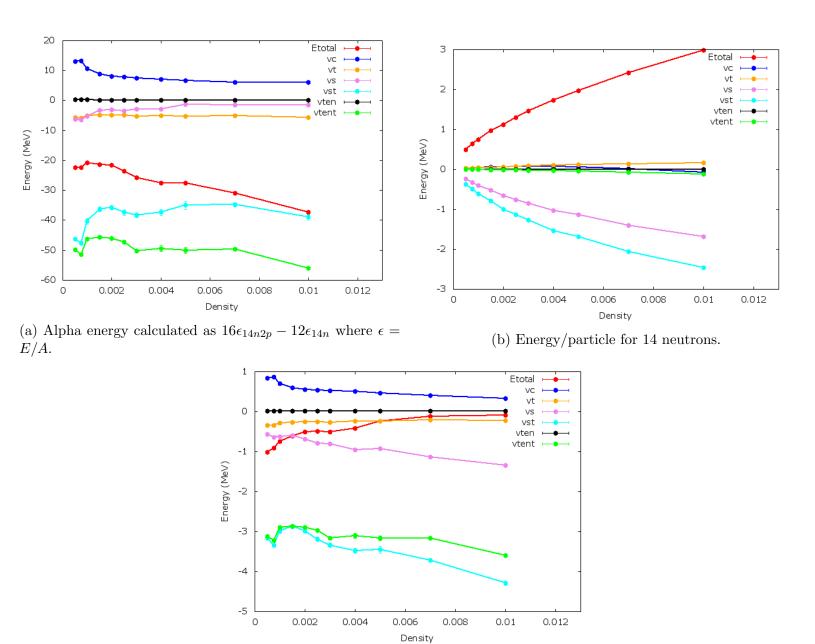


(b) Energy/particle for 14 neutrons.



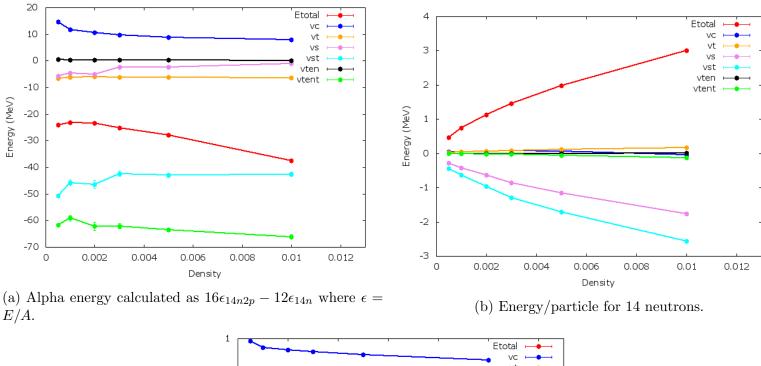
(d) Alpha energy calculated as $16\epsilon_{14n2p} - 12\epsilon_{14n}$ where $\epsilon = E/A$, without the bad IP correlations.

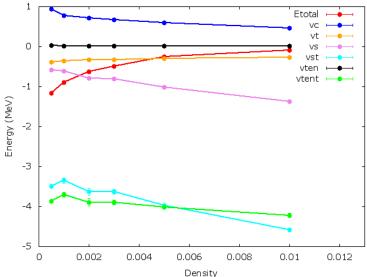
2 Breakdown of AV6' Potential Pieces with Linear Correlations



(c) Energy/particle for 14 neutrons + 2 protons.

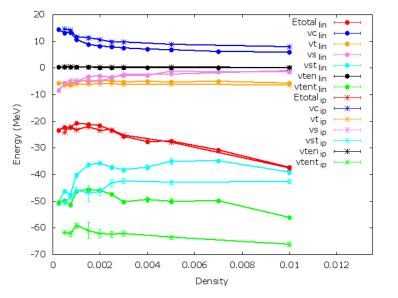
3 Breakdown of AV6' Potential Pieces with IP Correlations

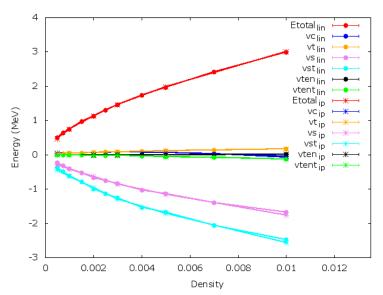




(c) Energy/particle for 14 neutrons + 2 protons.

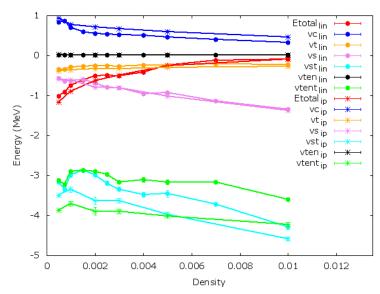
4 Breakdown of AV6' Potential Pieces with Both Linear and IP Correlations





(a) Alpha energy calculated as $16\epsilon_{14n2p} - 12\epsilon_{14n}$ where $\epsilon = E/A$.

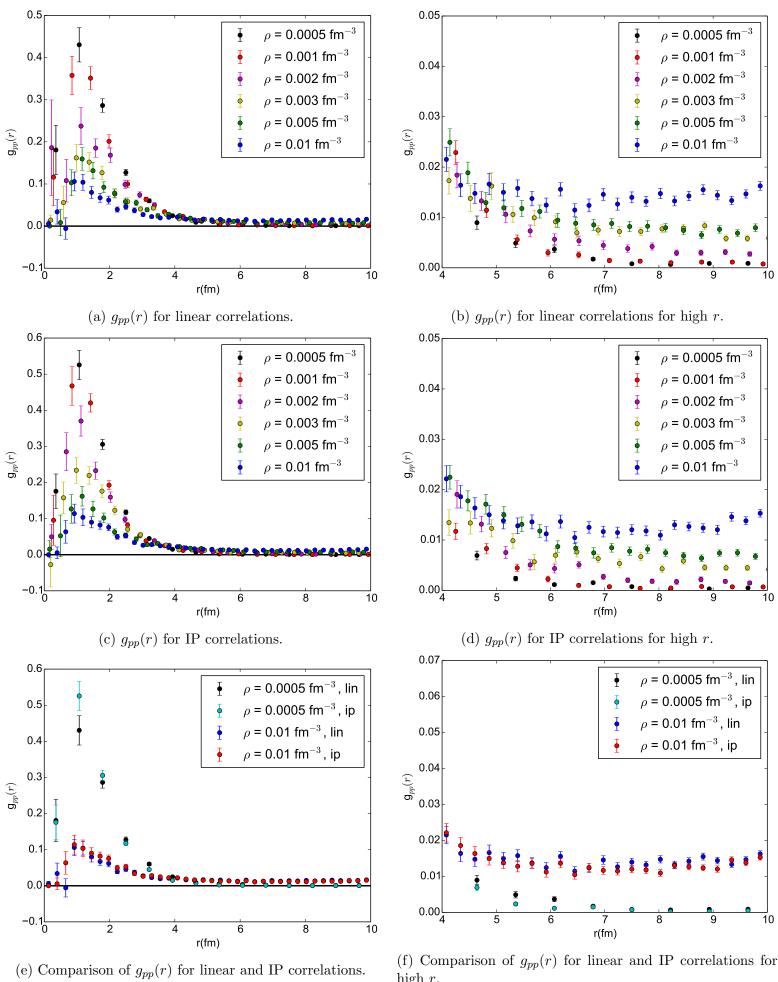
(b) Energy/particle for 14 neutrons.



(c) Energy/particle for 14 neutrons + 2 protons.

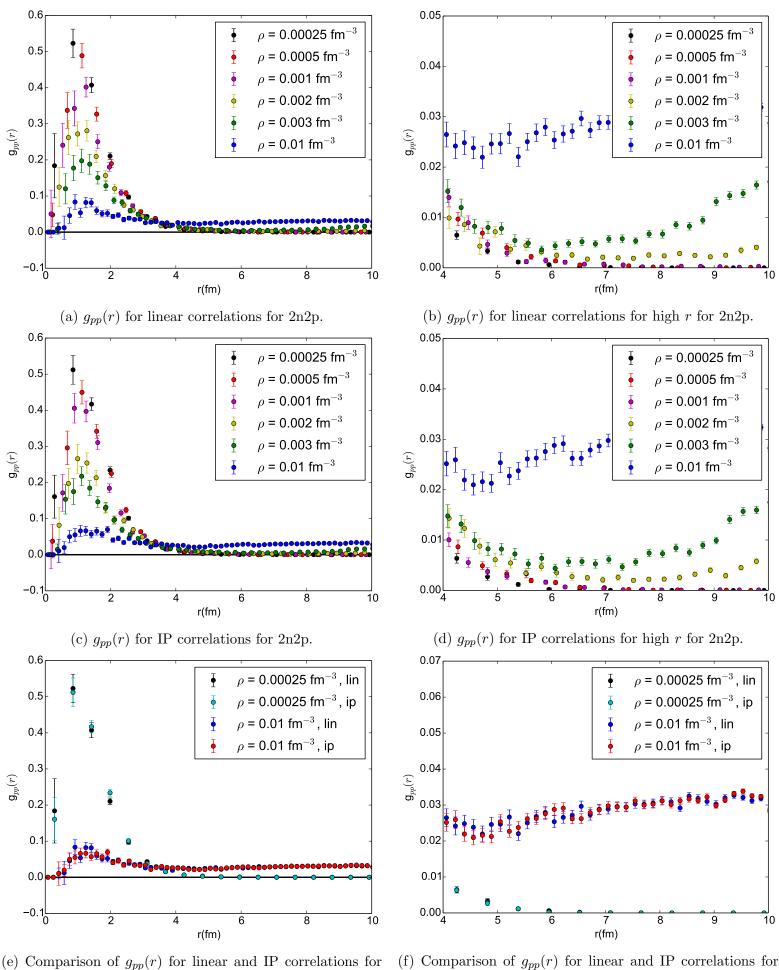
5	Distribution	Functions	for	Linear	and	IP	Correlations	for	cluster
	calculations								

Here we're looking at the pp distribution function, like they used in here to look for alpha clusters.



high r.

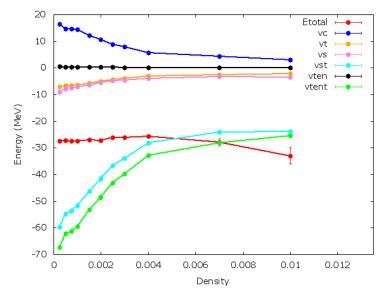
6	Distribution calculations	Functions	for	Linear	and	IP	Correlations	for	2n2p

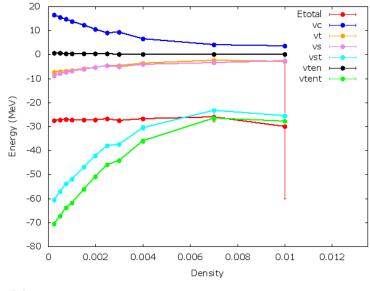


(e) Comparison of $g_{pp}(r)$ for linear and IP correlations for 2n2p.

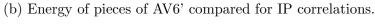
(f) Comparison of $g_{pp}(r)$ for linear and IP correlations for high r.

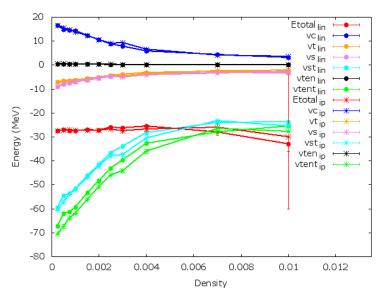
7 2n2p plots

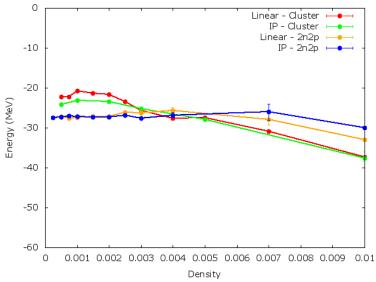




(a) Energy of pieces of AV6' compared for linear correlations.







(c) Energy of pieces of AV6' comparing linear and IP correlations.

(d) Energy of alpha particle calculated as a cluster in mostly neutron matter and 2 neutrons and 2 protons with both linear and IP correlations.