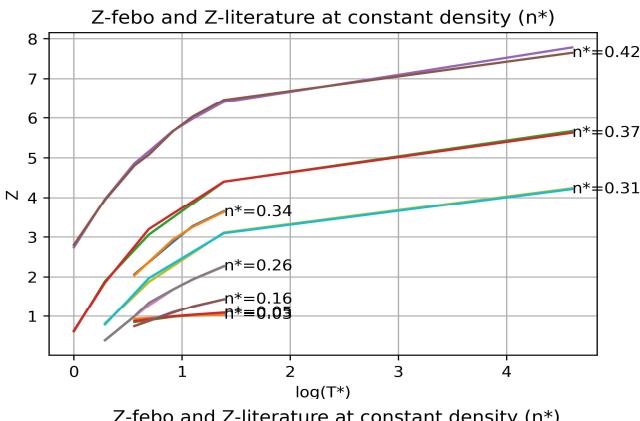
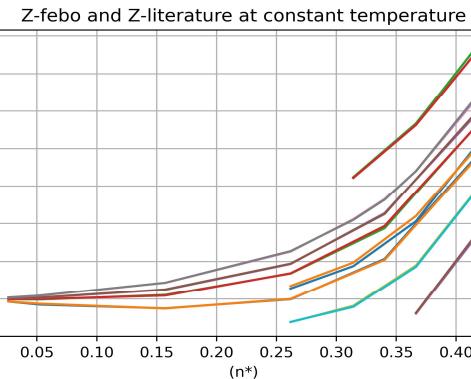


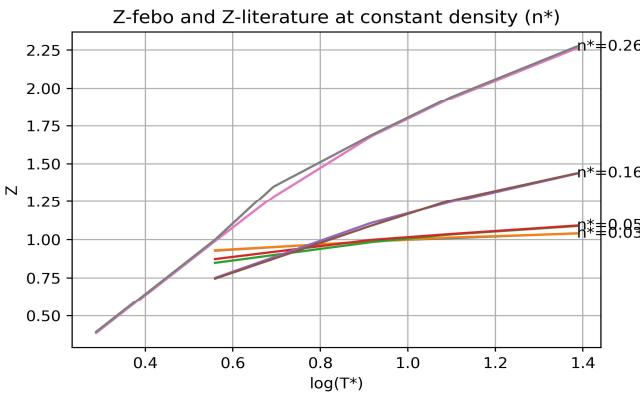
$\rho^*$	$n^*$	ncoll	Literature Values						Febo (2023)			Barker, Henderson, Madden and Fitz (1976)			Tavares (2006)			Z-Febo-gf-method			Z-Compare			% Error		Notes	
			temperature	Z-Febo-acw method	Z-Compare-acw method	Tavares (2006)	Henderson, Madden, and Fitts (1976)	Barker and Henderson (1976)	Tang (1994)	Yeom (1999)	% Error	$f_{\text{gl}}(r)$	$f_{\text{gl}}(r^*\sigma)$	$f_{\text{gl}}(r^{**})$	$f_{\text{gl}}(r)$	$f_{\text{gl}}(r^*\sigma)$	$f_{\text{gl}}(r^{**})$	$f_{\text{gl}}(r)$	$f_{\text{gl}}(r^*\sigma)$	$f_{\text{gl}}(r^{**})$	$f_{\text{gl}}(r)$	$f_{\text{gl}}(r^*\sigma)$	$f_{\text{gl}}(r^{**})$	$f_{\text{gl}}(r)$	$f_{\text{gl}}(r^*\sigma)$	$f_{\text{gl}}(r^{**})$	
0.05	0.02618	100000	1.75	0.927701	0.93				0.93	0.2%	1.560358	1.558733	0.907499										0.933235	0.93	0.3%	Reran w/ Annealing	
0.05	0.02618	100000	2.5	0.98844	0.9872				0.991	0.9872	0.1%	1.420152	1.34971	0.93971										1.003812	0.9872	1.7%	Reran w/ Annealing
0.05	0.02618	100000	3	1.009191	1.013	1.012			1.013	0.4%	1.415325	1.33071	0.98449											1.025848	1.013	1.3%	Reran w/ Annealing
0.05	0.02618	100000	4	1.040192	1.039	1.039				0.1%	1.363991	1.21854	0.97743											1.057622	1.039	1.8%	Reran w/ Annealing
0.1	0.05236	51000	1.75	0.848426	0.873				0.873	2.8%	1.708949	1.545147	0.907168											0.906961	0.873	3.9%	
0.1	0.05236	51000	2.5	0.983038	0.9976				0.991	1.5%	1.559436	1.356665	0.895131											1.000369	0.9976	0.3%	
0.1	0.05236	51000	3	1.033092	1.036	1.023			1.036	0.3%	1.479649	1.261998	0.938634											1.081325	1.036	4.4%	
0.1	0.05236	51000	4	1.087794	1.091	1.091				0.3%	1.322282	1.177097	0.982507											1.13939	1.091	4.4%	
0.3	0.15708	100000	1.75	0.750403	0.746				0.746	0.6%	1.716051	1.415879	0.815274											0.804599	0.746	7.9%	Reran w/ Annealing
0.3	0.15708	119000	2.5	1.108652	1.0901				1.114	1.0901	1.7%	1.652521	1.276212	0.859918										1.155527	1.0901	6.0%	
0.3	0.15708	119000	3	1.24661	1.257	1.223			1.257	0.8%	1.617612	1.253611	0.901465											1.269625	1.257	1.0%	
0.3	0.15708	119000	4	1.435806	1.438	1.438				0.2%	1.582339	1.185284	0.925705											1.443757	1.438	0.4%	
0.5	0.2618	250000	1.3333	0.386817	0.3941				0.46	1.9%	2.000545	1.418982	0.657558	2.02	1.43	0.67								0.403869	0.39412	2.5%	Reran w/ Annealing
0.5	0.2618	250000	1.75	0.990191	0.999				0.999	0.9%	1.913596	1.299756	0.741845											1.032093	0.999	3.3%	Reran w/ Annealing
0.5	0.2618	187000	2	1.282124	1.35				1.35	5.0%	2.058001	1.258786	0.756394	2.02	1.27	0.77								1.379533	1.35	2.2%	
0.5	0.2618	187000	2.5	1.680052	1.6874				1.678	0.4%	2.015863	1.192174	0.806487											1.747876	1.6874	3.6%	
0.5	0.2618	187000	3	1.933462	1.942	1.92			1.942	0.4%	2.101343	1.163407	0.823809											2.000284	1.942	3.0%	
0.5	0.2618	187000	4	2.261088	2.273				2.31	0.5%	2.125273	1.111616	0.849095	2.08	1.11	0.87								2.297754	2.273	1.1%	
0.6	0.31416	100000	1.3333	0.81729	0.791				0.7	3.3%	2.191219	1.308927	0.620342	2.16	1.35	0.64								0.834394	0.7918	5.4%	Reran w/ Annealing
0.6	0.31416	221000	2	1.875271	1.97				1.97	4.8%	2.313513	1.169161	0.703483	2.33	1.18	0.71								1.932234	1.97	1.9%	
0.6	0.31416	221000	4	3.111346	3.095	3.062			3.13	0.5%	2.454497	1.048769	0.798373	2.46	1.03	0.8	2.469	0.22%	1.81%	0.20%	0.59%	3.022445	3.095	2.3%			
0.6	0.31416	221000	100	4.241982	4.22				4.22	0.5%	2.599158	0.915753	0.906697	2.56	0.92	0.92		1.52%	0.46%	1.46%			4.227795	4.22	0.2%		
0.65	0.34034	238000	1.75	2.067947	2.041				2.041	1.3%	2.495965	1.147592	0.642384											2.076683	2.041	1.7%	
0.65	0.34034	238000	2.5	2.877645	2.9365				2.914	2.0%	2.629906	1.070827	0.708027											2.913327	2.9365	0.8%	
0.65	0.34034	238000	3	3.274962	3.252	3.279			3.252	0.7%	2.68009	1.029653	0.737788											3.307561	3.252	1.7%	
0.65	0.34034	238000	4	3.691261	3.631	3.631				1.7%	2.71147	0.98371	0.76686											3.694944	3.631	1.8%	
0.7	0.36652	250000	1	0.613722	0.6298				0.59	2.6%	2.57612	1.30376	0.47193	2.59	1.35	0.5		0.54%	3.48%	5.78%			0.660887	0.6298	4.9%	Reran w/ Annealing	
0.7	0.36652	250000	1.3333	1.893668	1.8601				1.82	1.8%	2.729478	1.161769	0.555313	2.69	1.2	0.57		1.46%	3.24%	2.61%			2.000874	1.8601	7.6%	Reran w/ Annealing	
0.7	0.36652	255000	2	3.060426	3.2				3.2	4.4%	2.887757	1.05342	0.632048	2.89	1.05	0.63		0.08%	0.33%	0.32%			3.148717	3.2	1.6%		
0.7	0.36652	255000	4	4.402553	4.404				4.404	0.0%	3.065071	0.939764	0.724647	3.09	0.95	0.74		0.81%	1.08%	2.10%			4.429225	4.404	0.6%		
0.7	0.36652	255000	100	5.671282	5.63				5.63	0.7%	3.238586	0.830726	0.819709	3.16	0.83	0.83		2.46%	0.09%	1.25%			5.693499	5.63	1.1%		
0.8	0.41888	289000	1	2.742216	2.8012				2.34	2.1%	3.545558	1.113634	0.39893										2.899087	2.80119	3.5%		
0.8	0.41888	289000	1.3333	3.964079	3.9453				3.84	0.5%	3.601432	1.009605	0.465202	3.53	1.03	0.49		2.00%	2.05%	5.19%			3.958781	3.94527	0.3%		
0.8	0.41888	289000	1.75	4.863132	4.81				4.81	1.1%	3.749159	0.937747	0.523002										4.936448	4.81	2.6%		
0.8	0.41888	289000	2	5.161828	5.08				5.08	1.6%	3.762564	0.90866	0.537756	3.65	0.91	0.55		3.04%	1.01%	2.25%			5.250897	5.08	3.4%		
0.8	0.41888	289000	2.5	5.677297	5.6682				5.693	0.2%	3.833696	0.88054	0.575496										5.698436	5.66816	0.5%		
0.8	0.41888	289000	3	5.980507	6.036	5.987			6.036	0.9%	3.885099	0.849126	0.60265										6.115759	6.036	1.3%		
0.8	0.41888	289000	4	6.409237	6.464	6.315			6.464	0.8%	3.947099	0.819273	0.627736	3.87	0.81	0.63	3.828	1.97%	1.14%	0.36%	3.06%	6.530313	6.464	1.0%			
0.8	0.41888	289000	100	7.785088	7.65				7.65	1.8%	4.121369	0.728972	0.717371	3.97	0.73	0.73		3.74%	0.14%	1.75%			7.839819	7.65	2.5%		



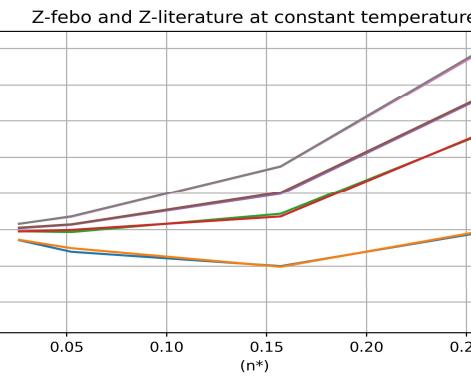
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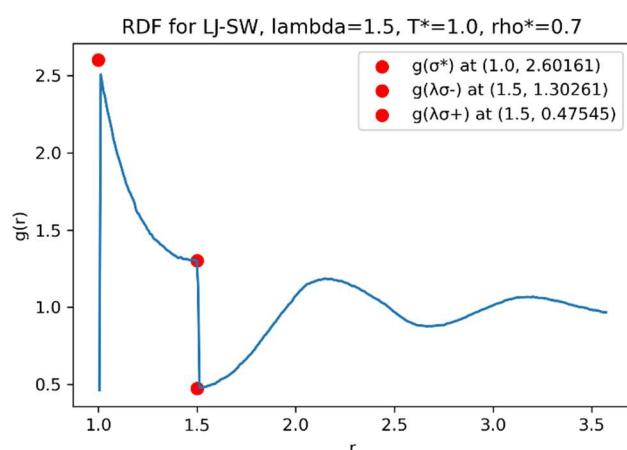
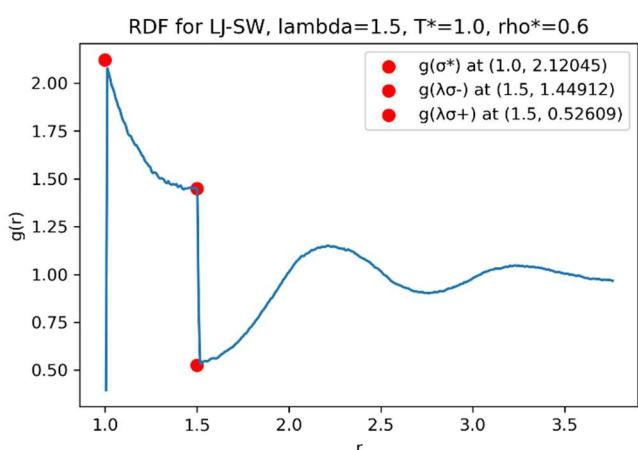
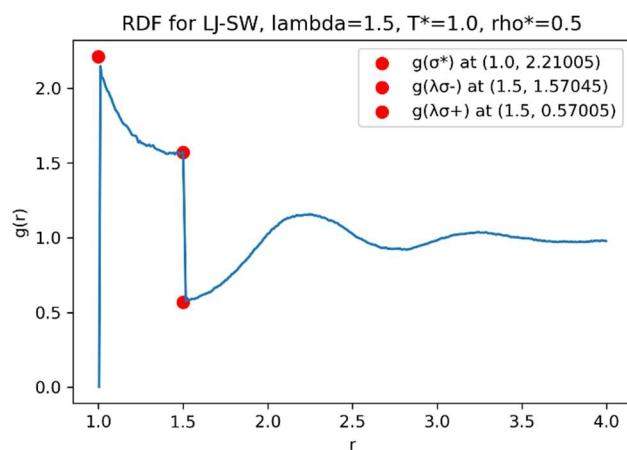
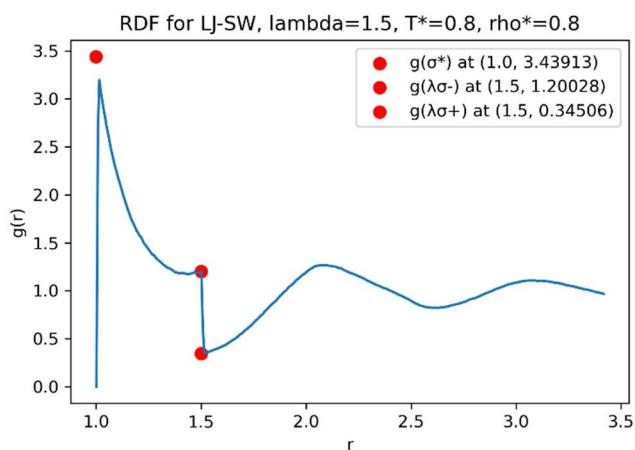
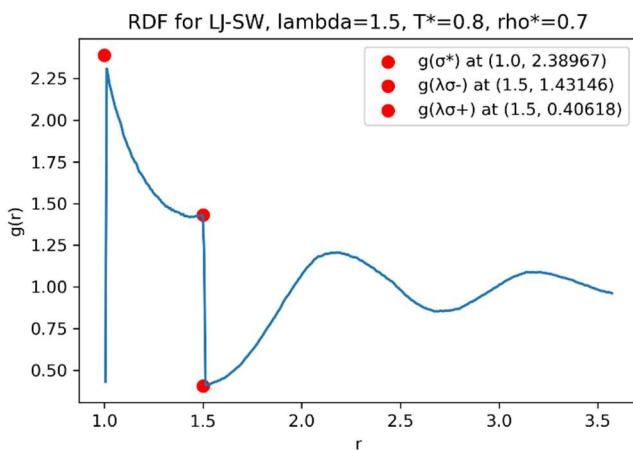
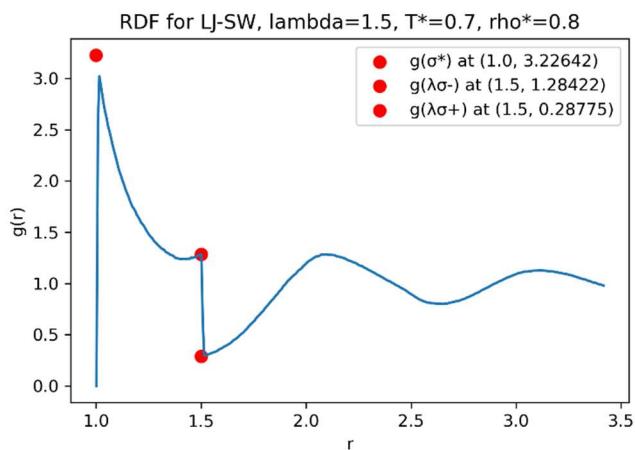
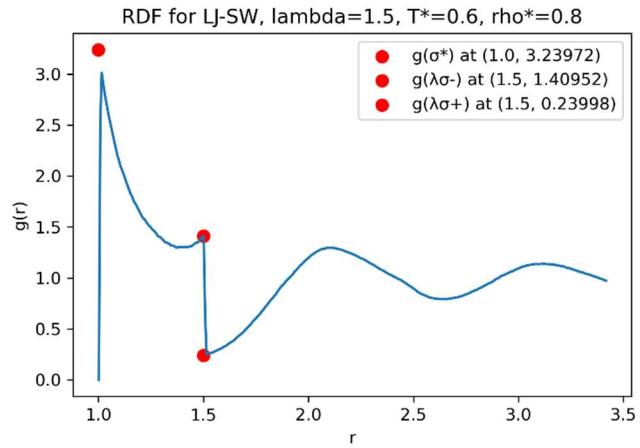
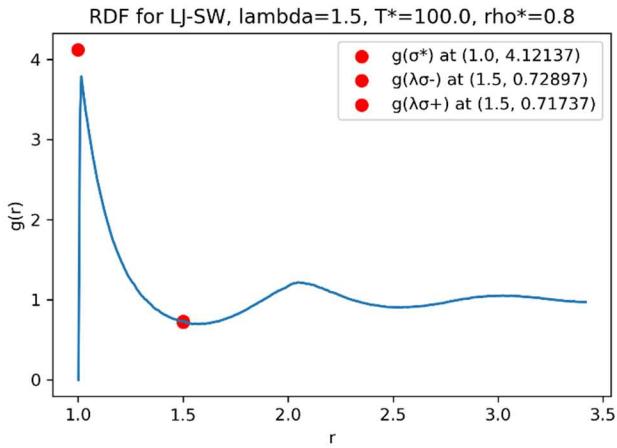
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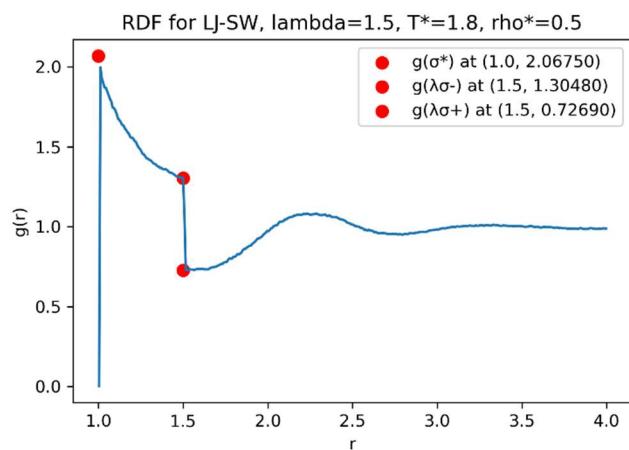
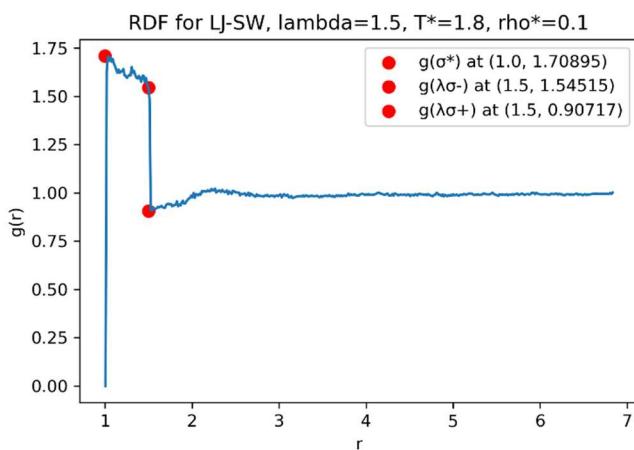
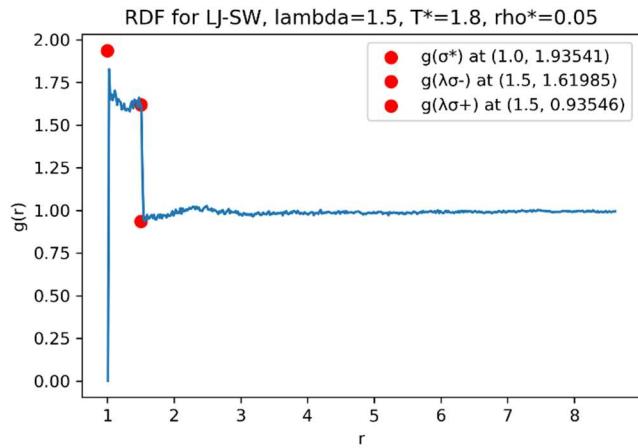
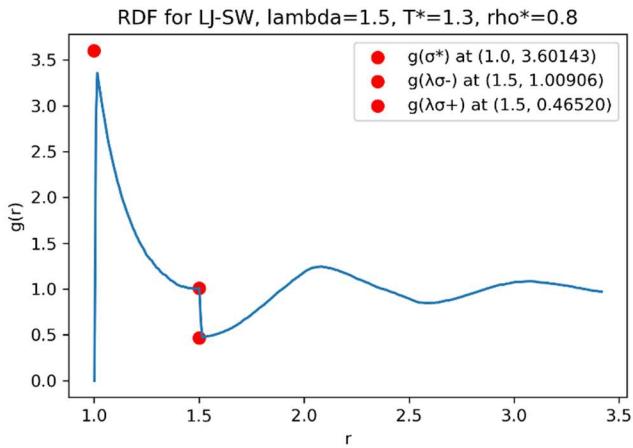
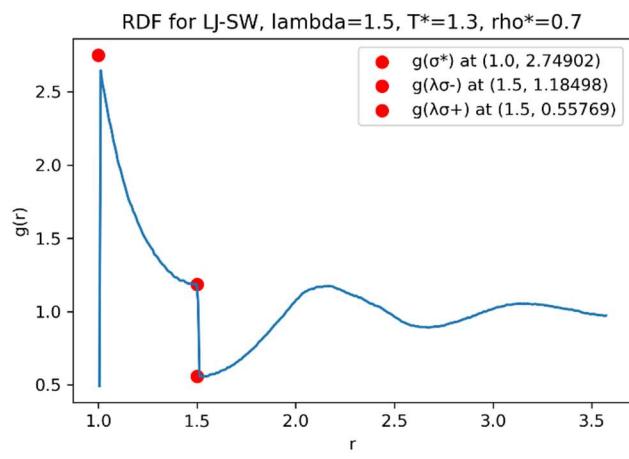
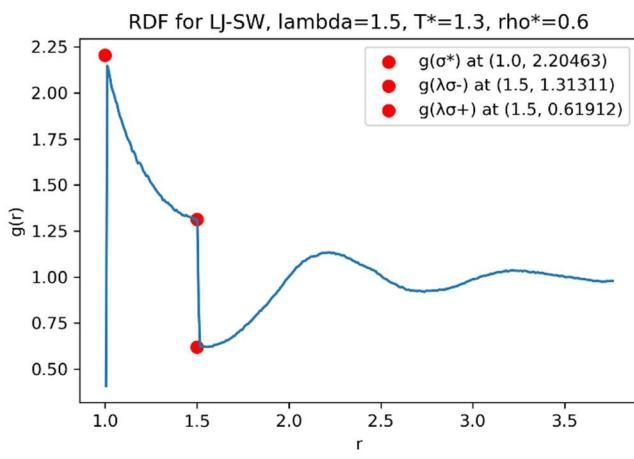
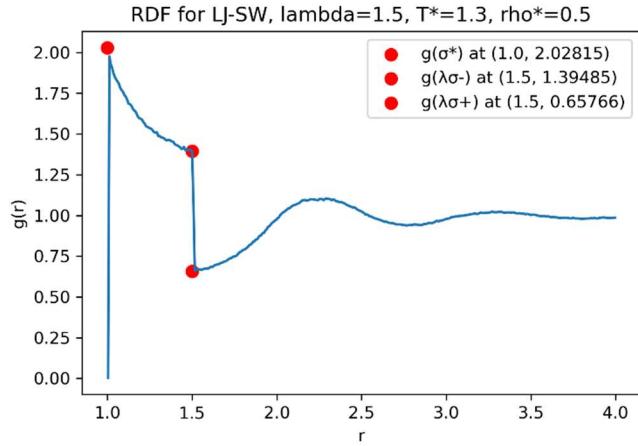
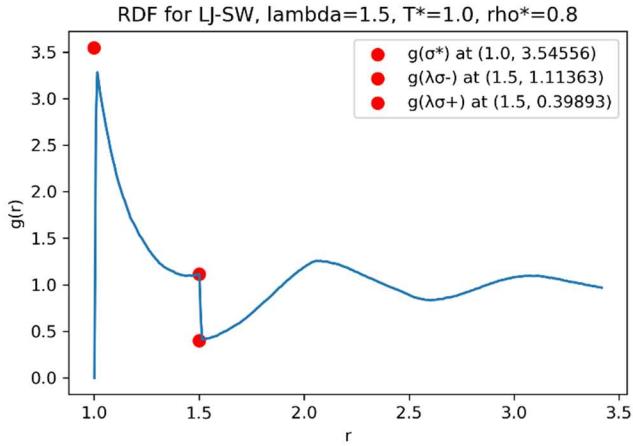


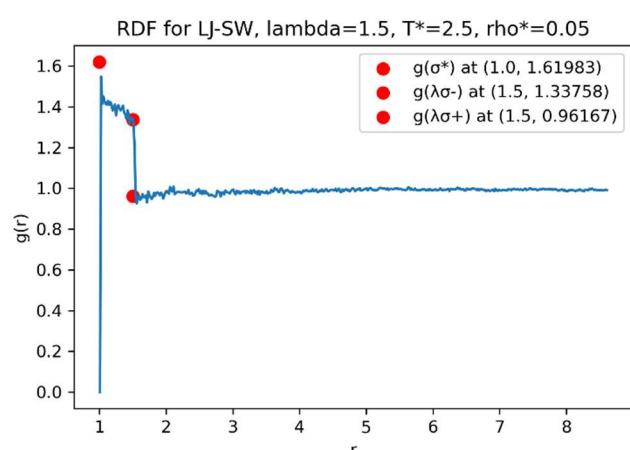
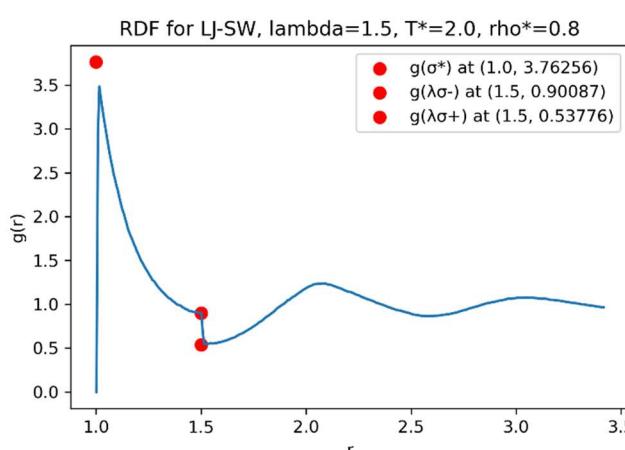
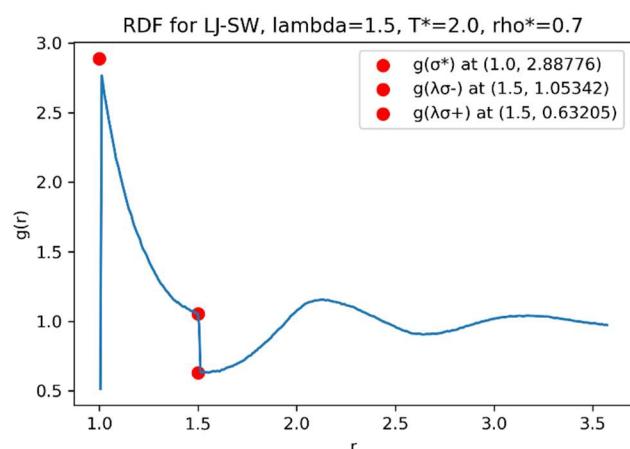
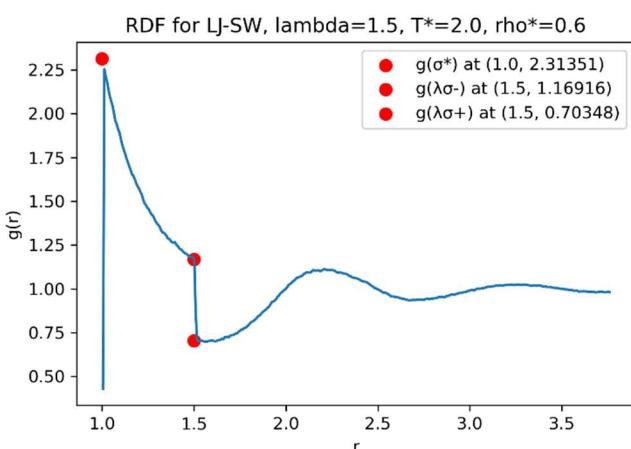
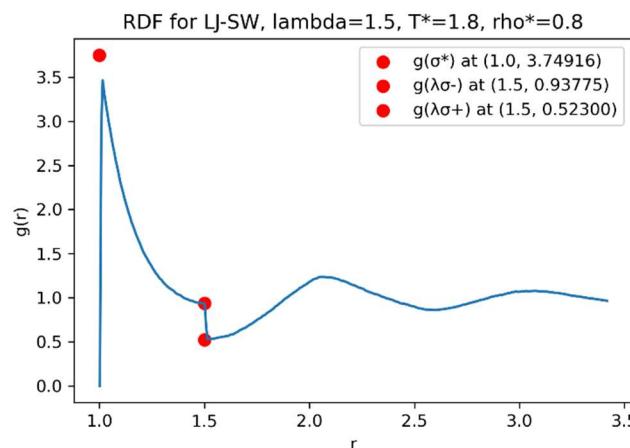
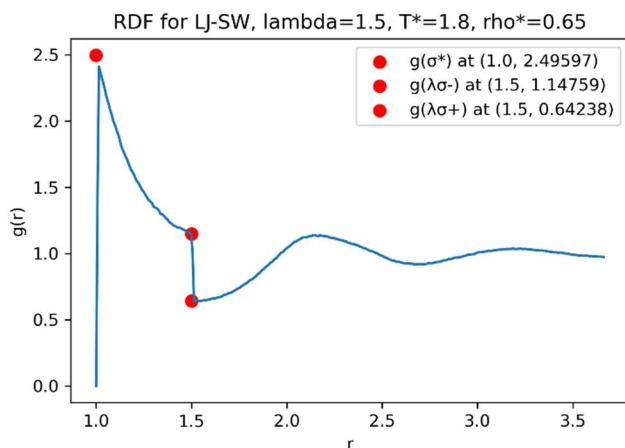
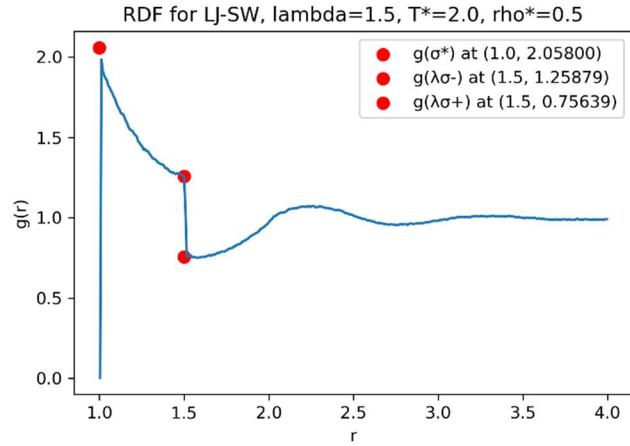
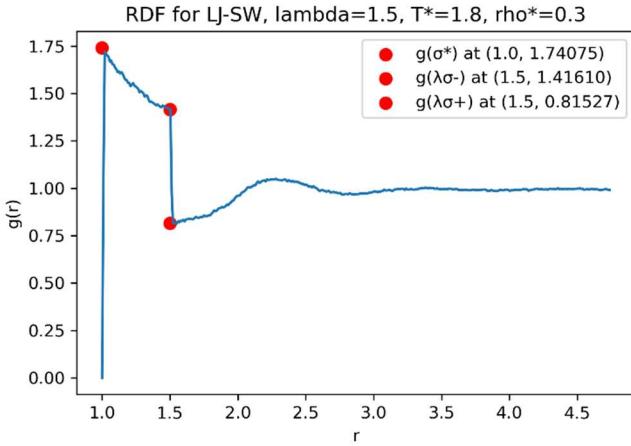
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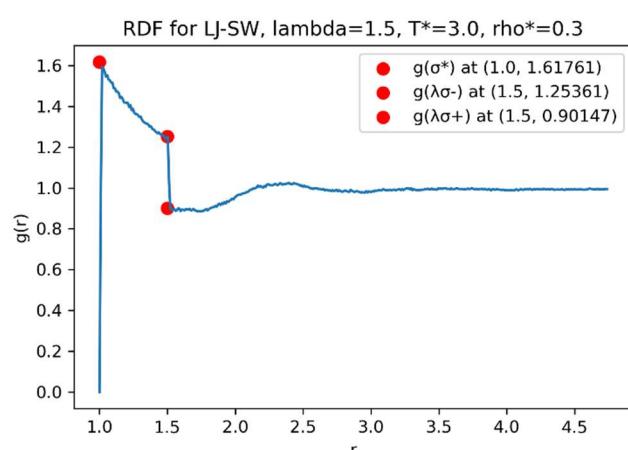
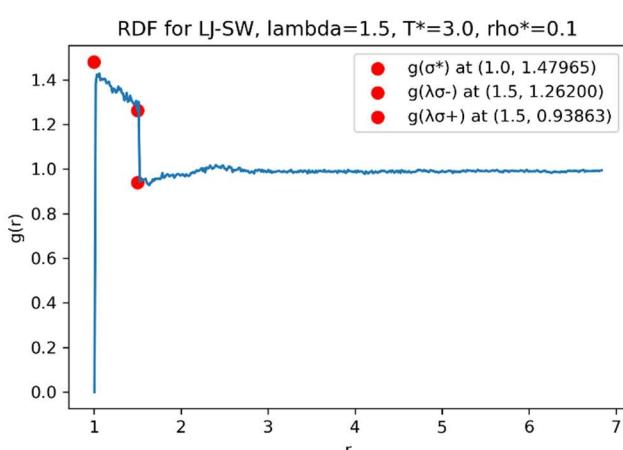
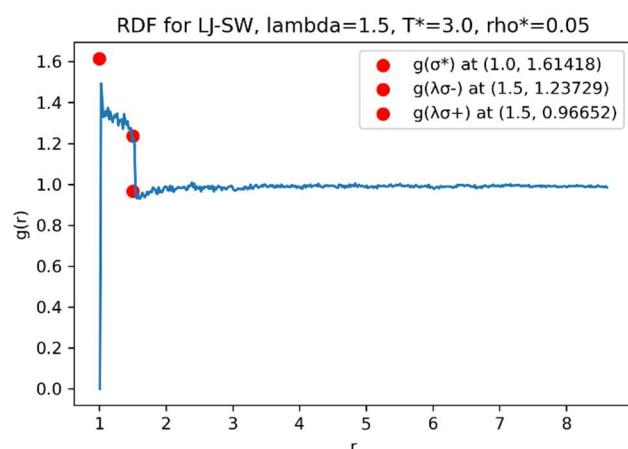
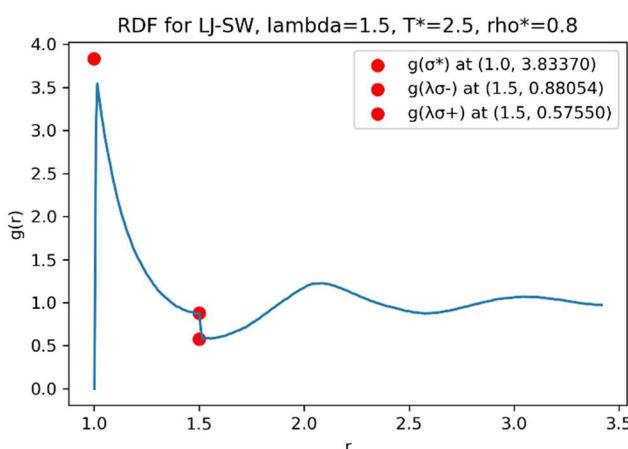
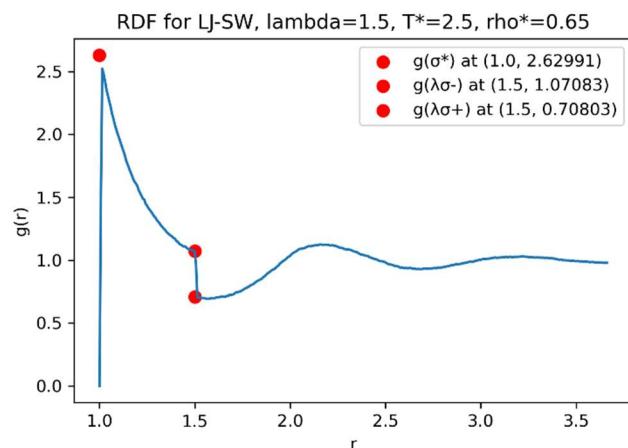
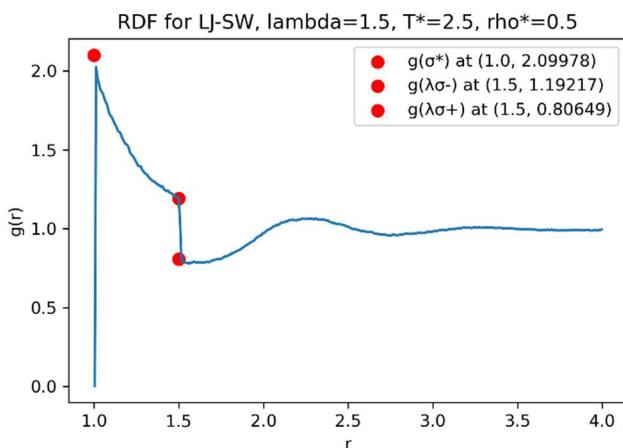
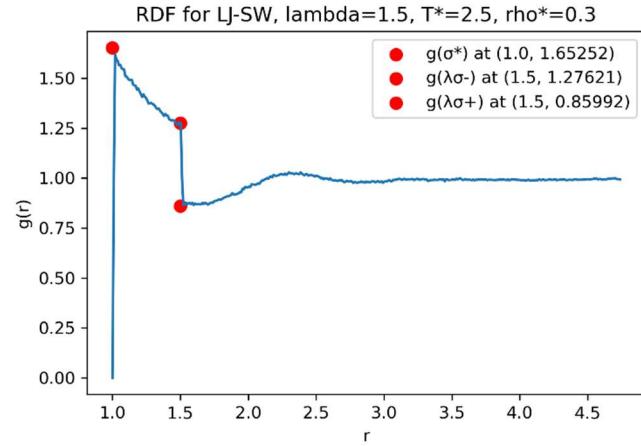
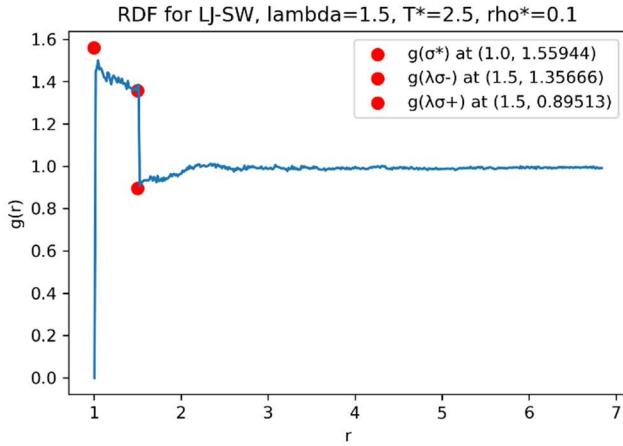


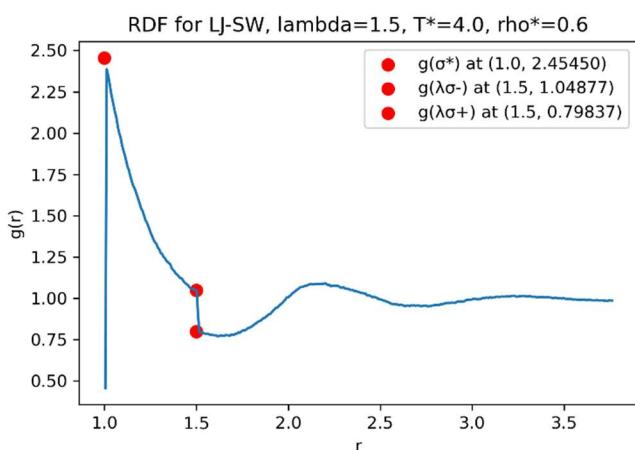
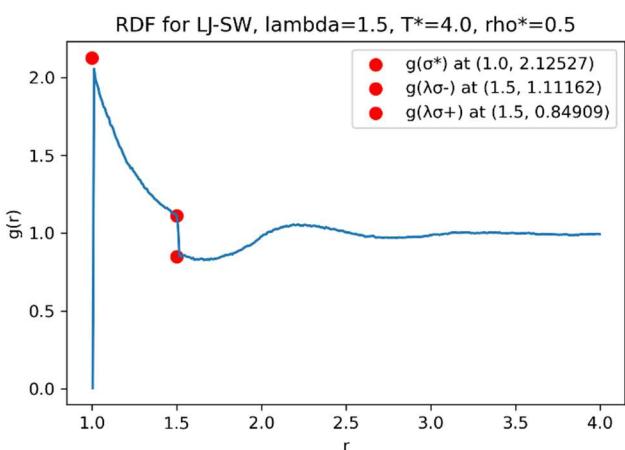
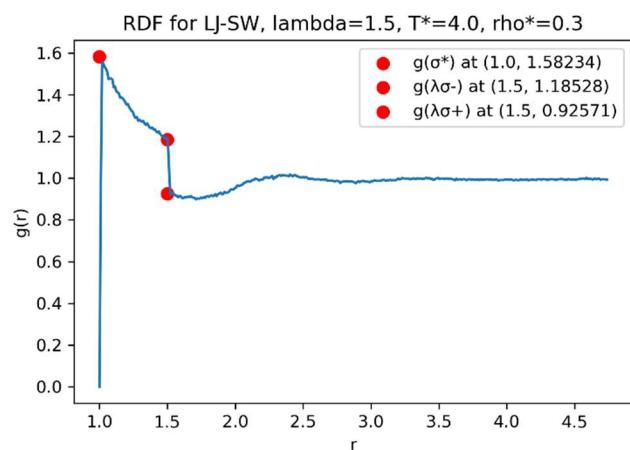
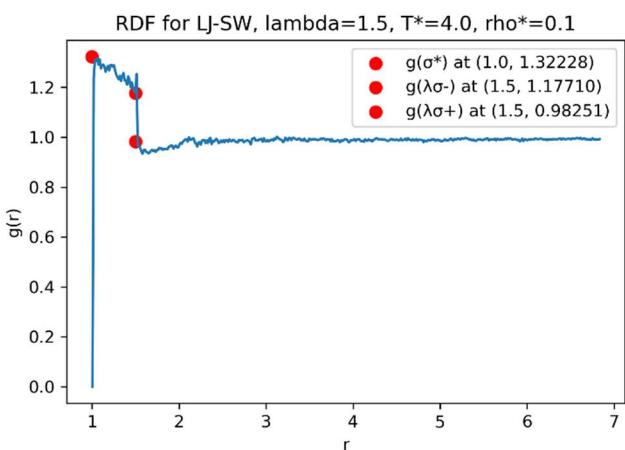
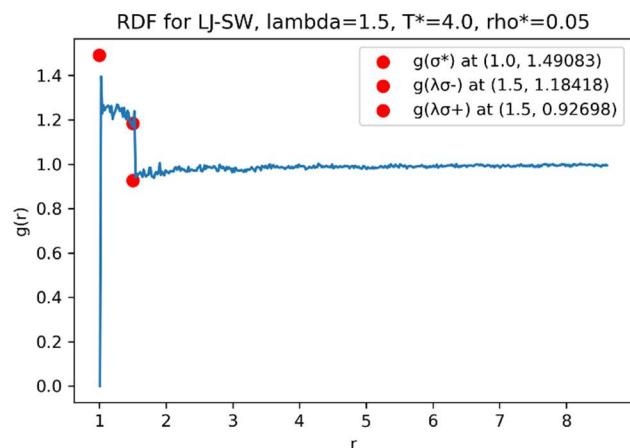
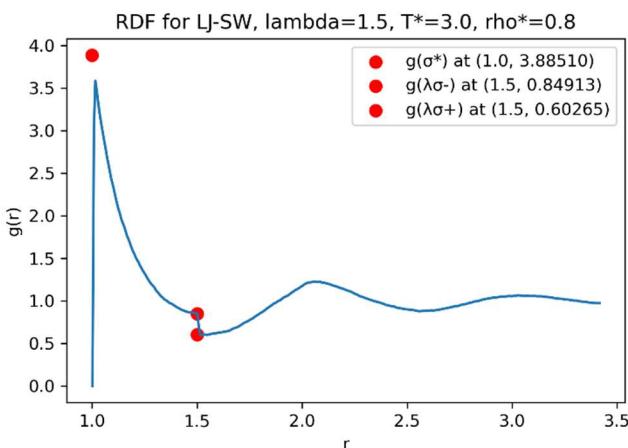
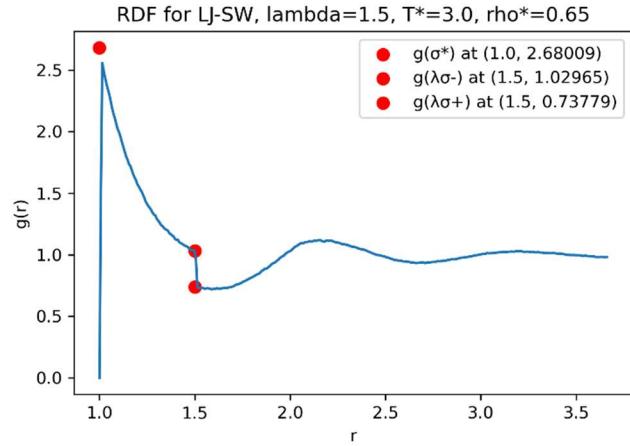
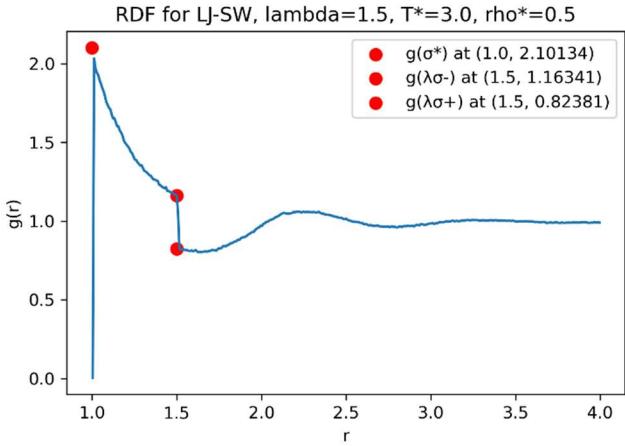
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- Z-febo,  $T^*=100.0000$
- Z-literature,  $T^*=100.0000$

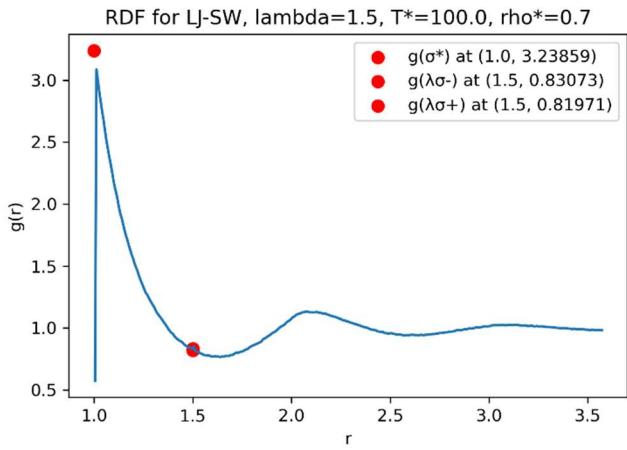
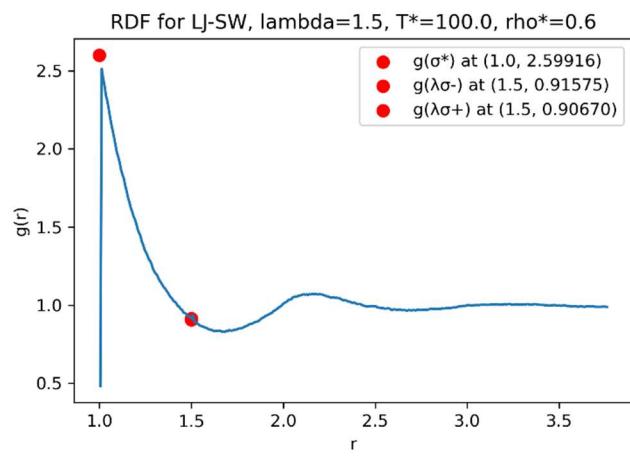
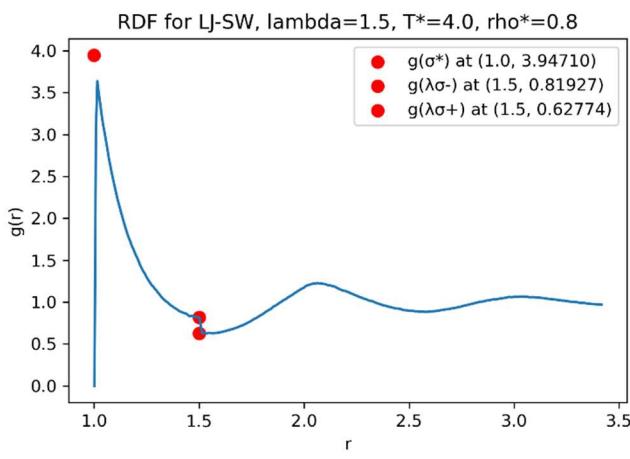
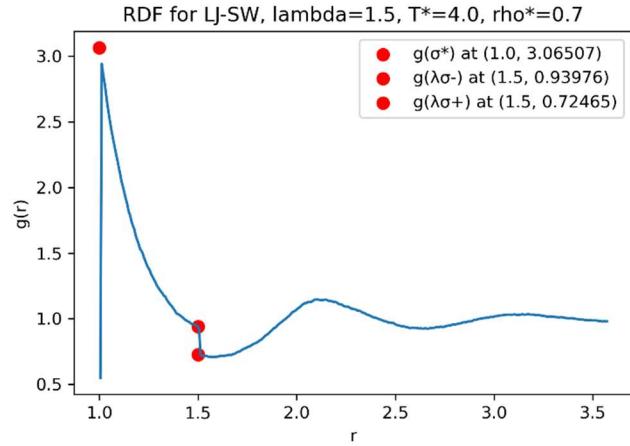
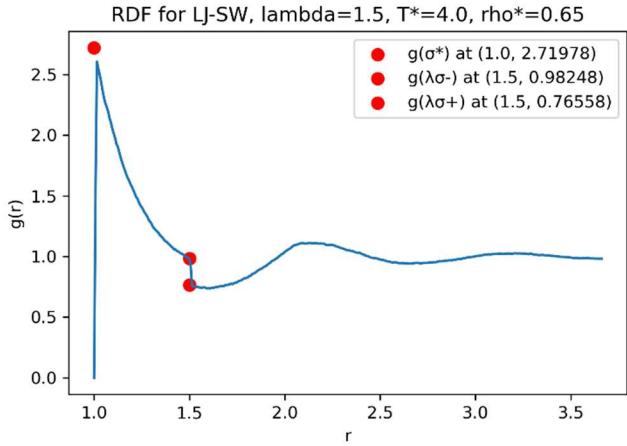












## Reran with Annealing:

