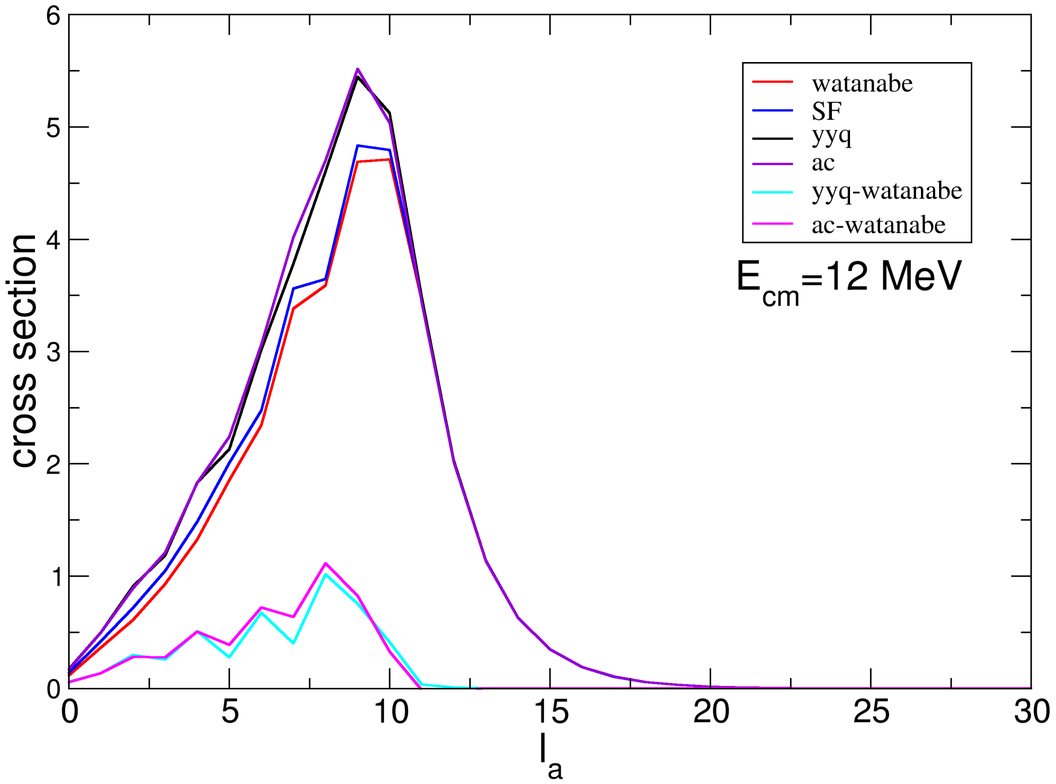
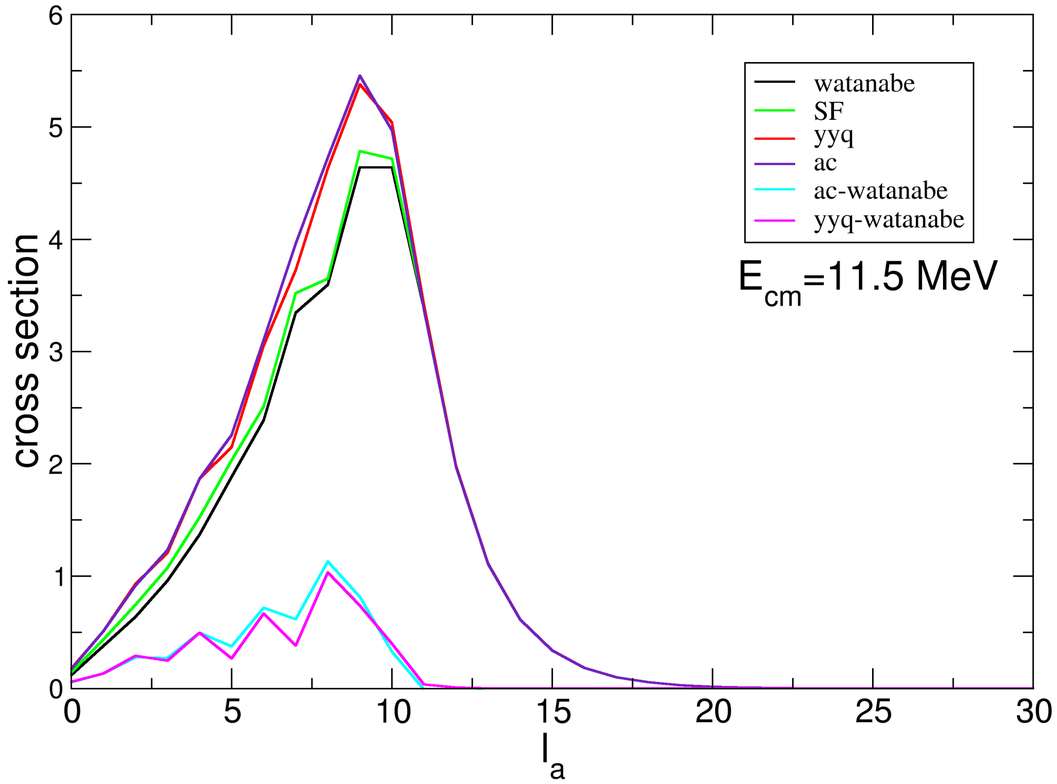
内部波函数对破裂反应的影响

Calculation

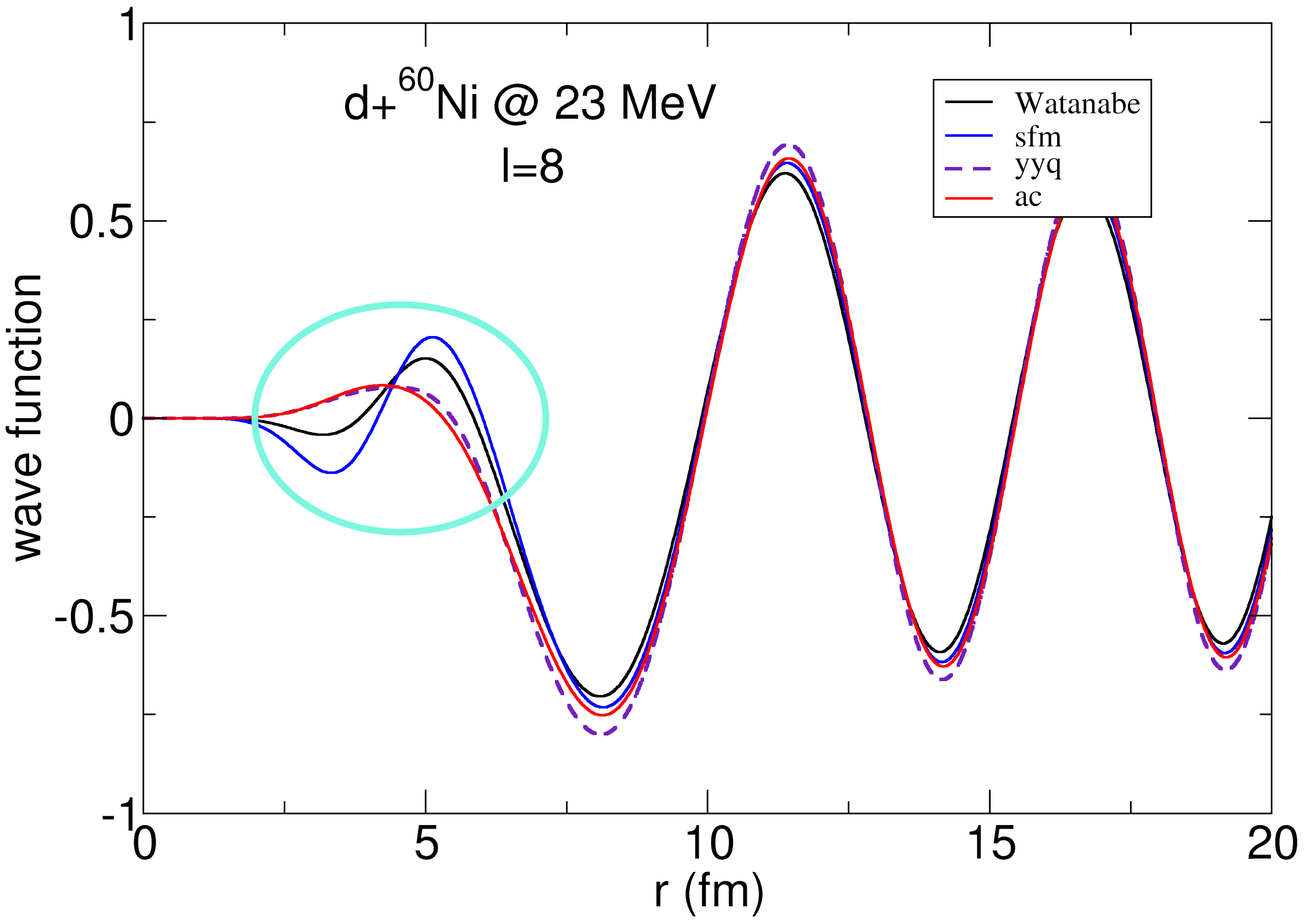
对于系统来说^{60}Ni(d, pX)@23 MeV的去弹性破裂截面的差异来源，为l=8时的波函数。





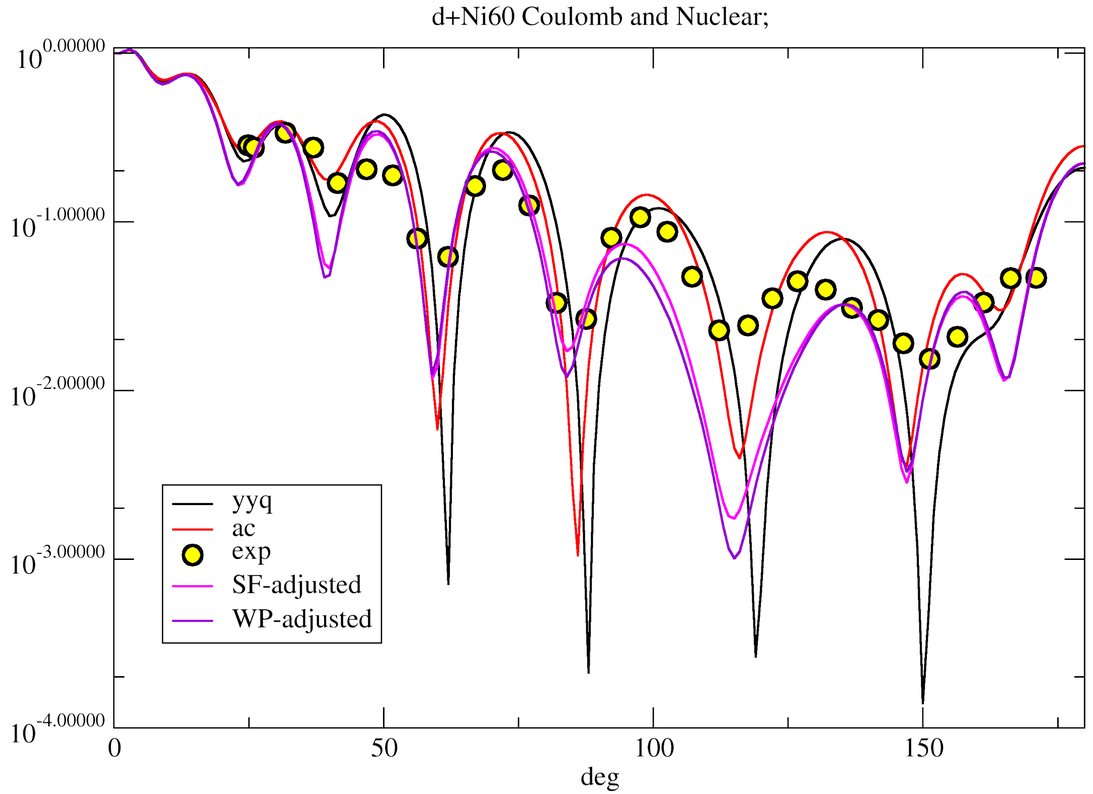
Calculation

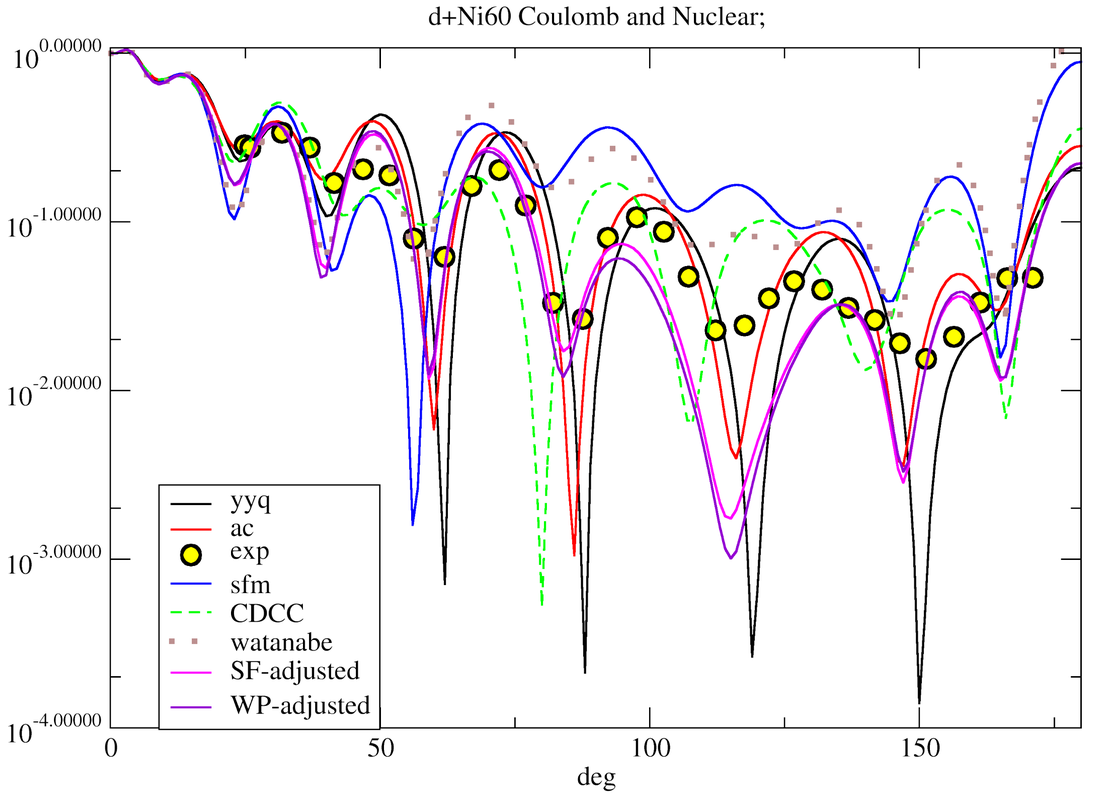
此时散射波函数为，与预计的一样在内部有着一定的差异。



Calculation

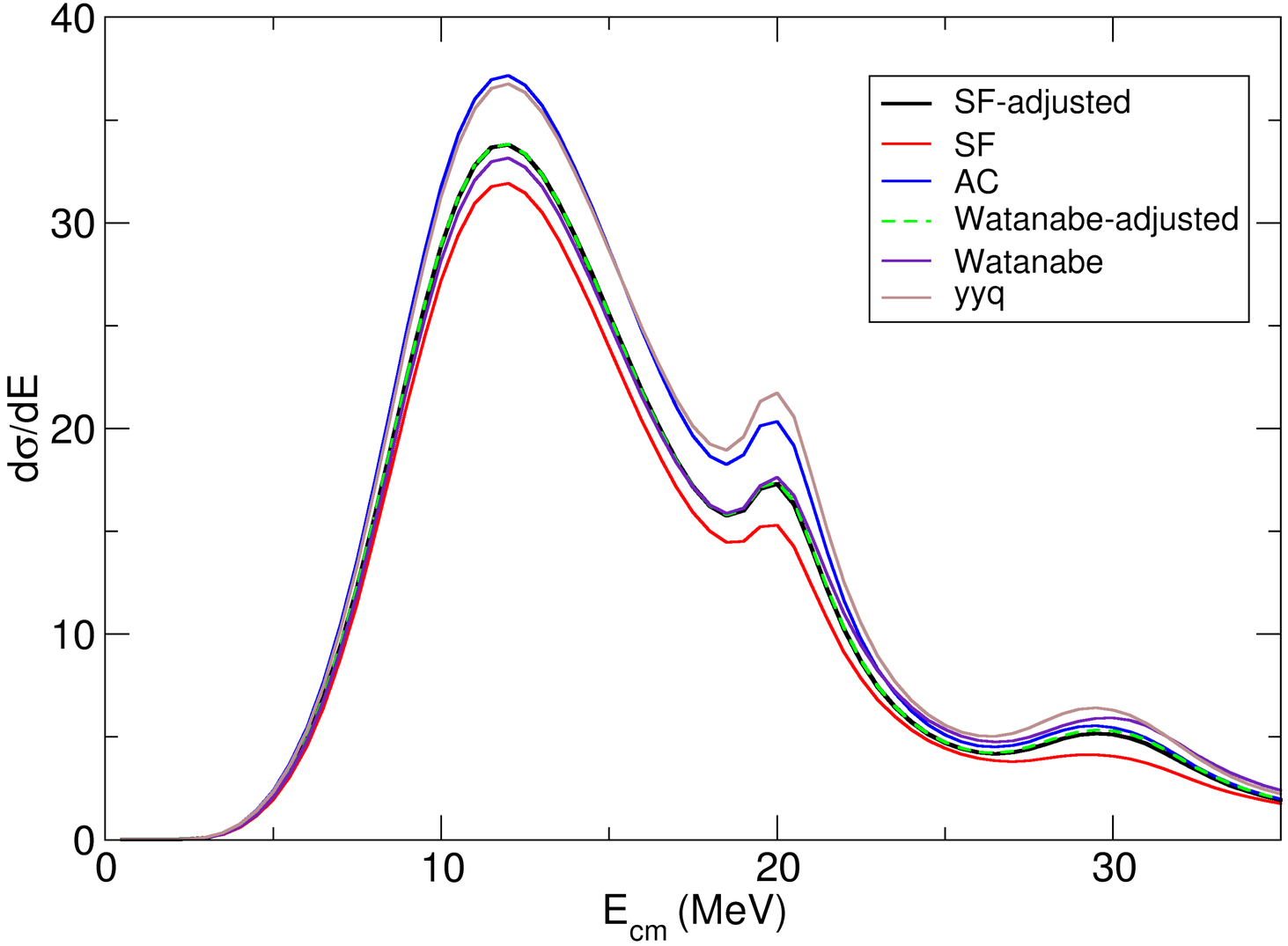
下一步，我们通过弹性散射实验数据，对SF与Watanabe势进行调整，来确定表面对反应的贡献。



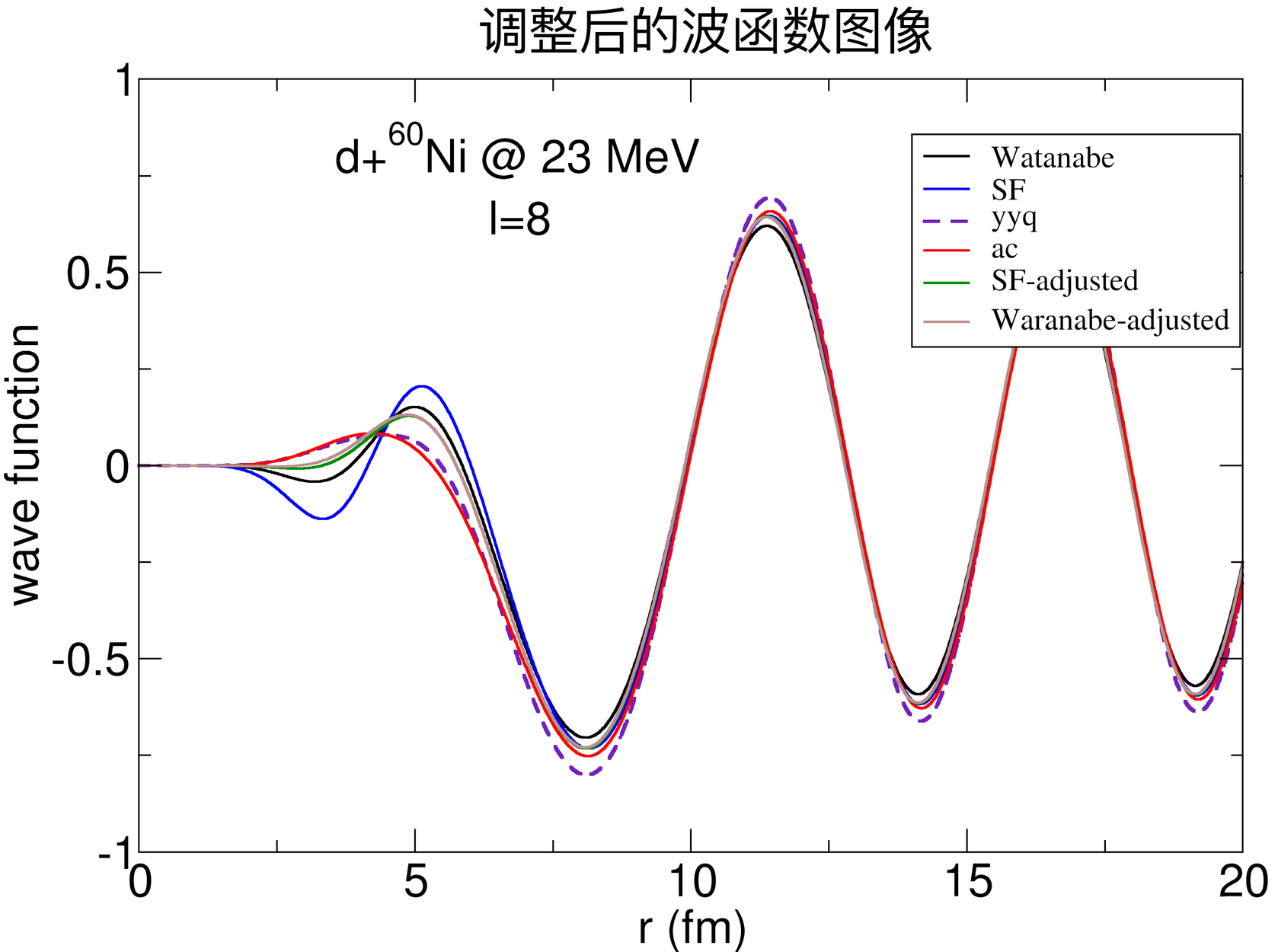


Calculation

去弹性散射截面的能量微分截面



Calculation



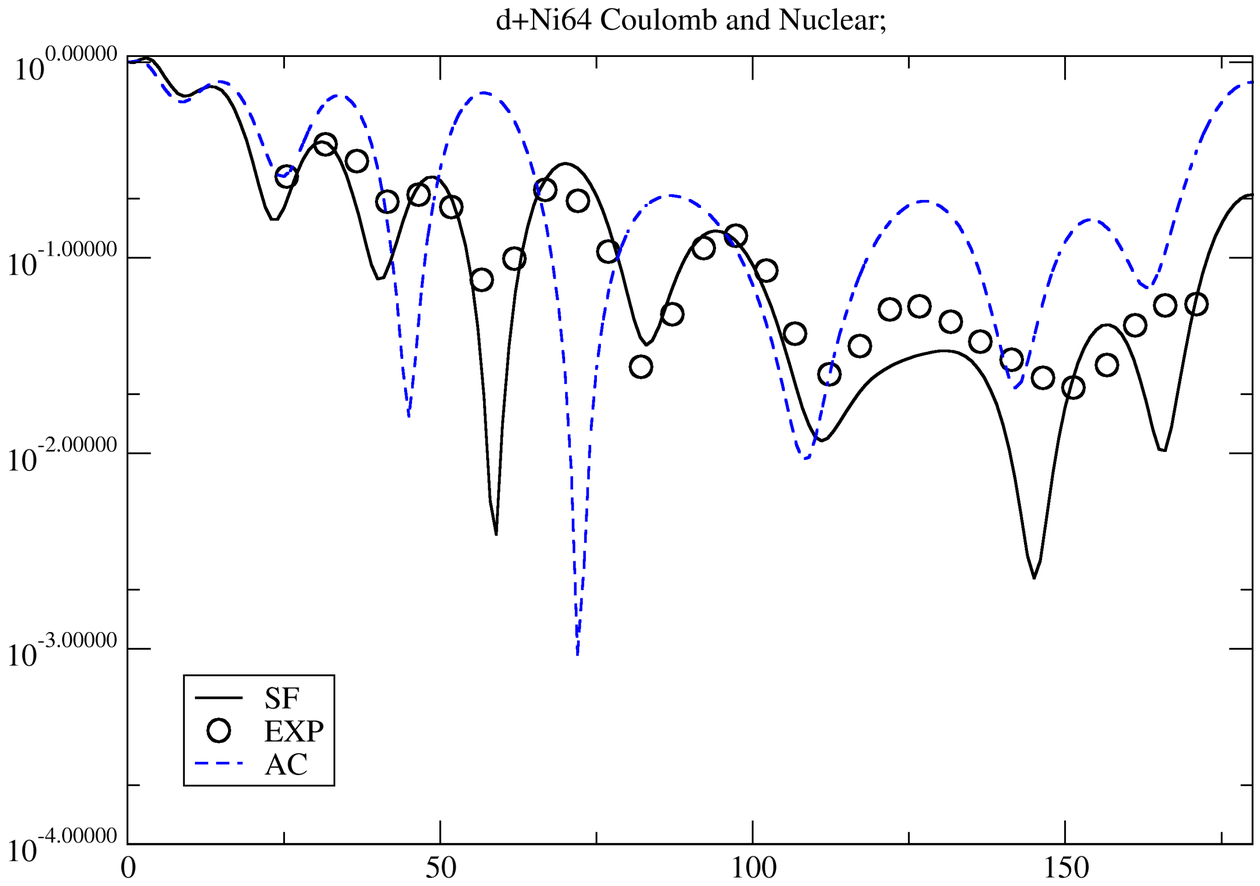
Calculation

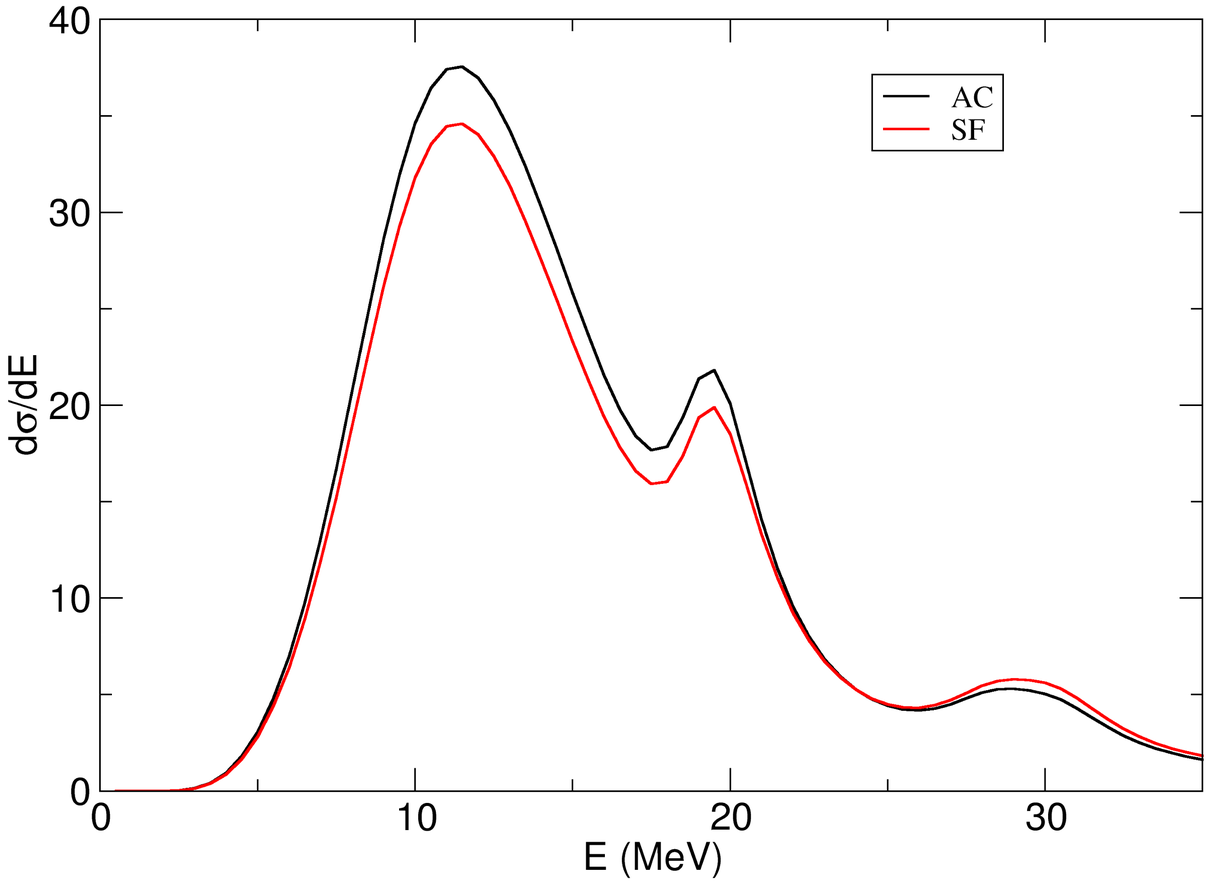
对$^{58,60,62,64}Ni$系统进行了计算，

	E	ac	SF	(ac-SF)/AC	R	dR
C13	17.7	25.049662	23.367499	0.0719872931	3.034	1.225
C12	26	19.287104	17.755082	0.0862863939	2.264	0.818
Ca48	23.2	33.163202	32.104505	0.0329765869	3.058	0.756
Ca40	22	34.775086	32.369868	0.0743042263	3.174	0.897
Ni58	22	37.565718	34.863472	0.0775093771	3.744	1.633
Ni60	22	37.680151	35.030919	0.0756255352	3.807	1.663
Ni62	22	37.654478	34.742972	0.0838012936	3.871	1.693
Ni64	22	37.544625	34.584012	0.0856064067	4.212	1.856

Calculation

我们以^{64}Ni为例，看一下他的一些结果





Calculation

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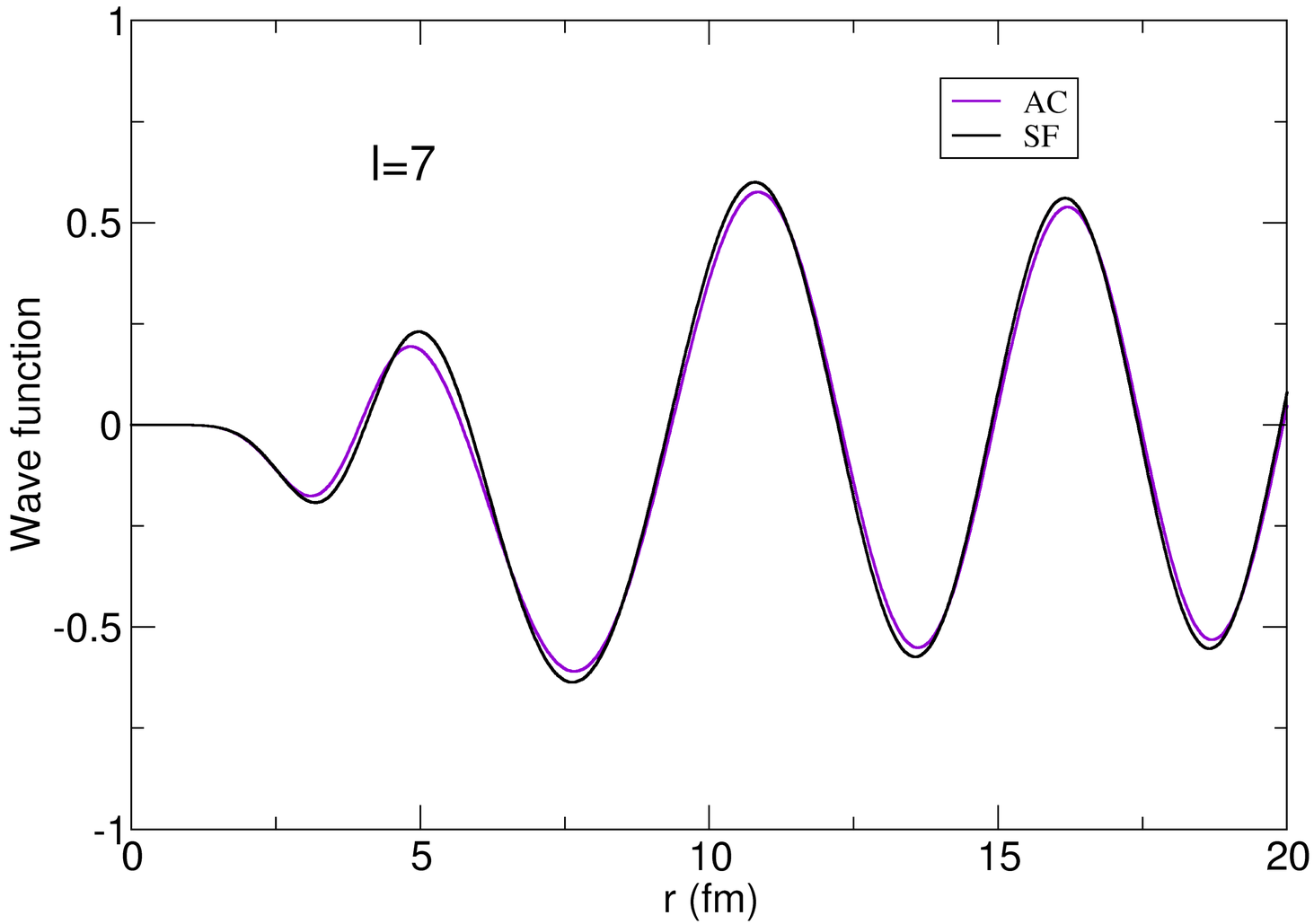
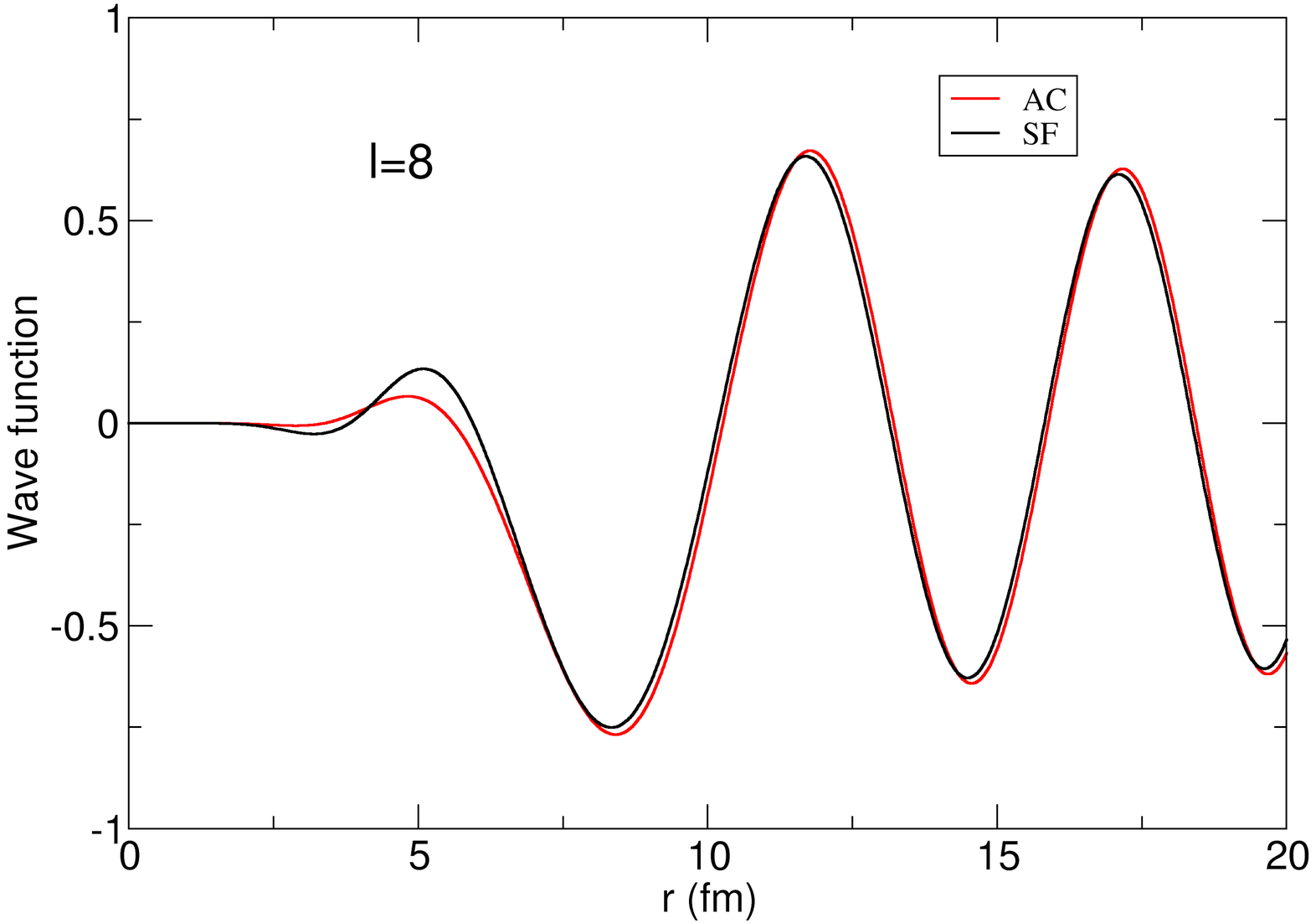


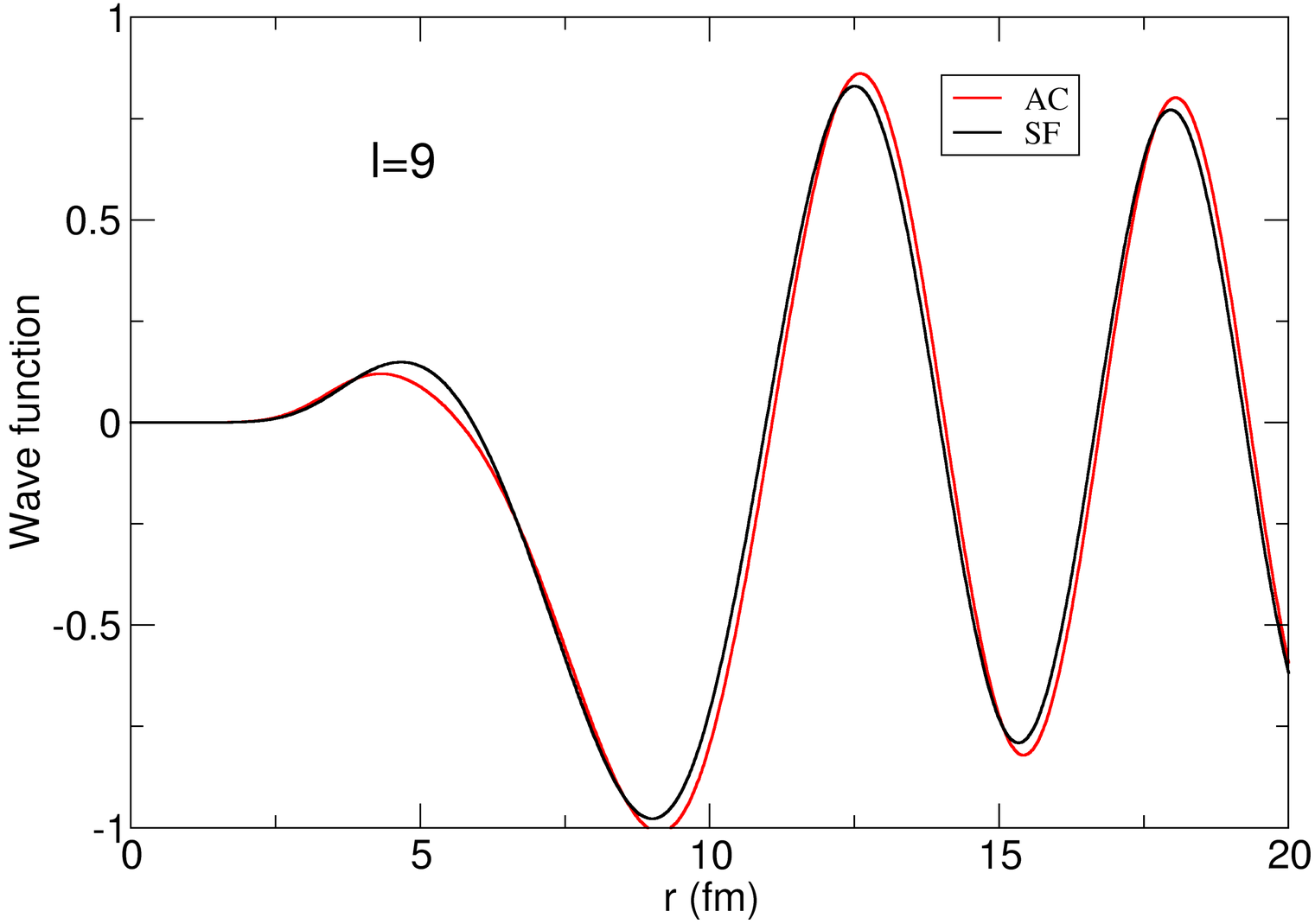
Calculation

我们以^{64}Ni为例，看一下他的一些结果，起主要贡献的还是l=8分波的情况



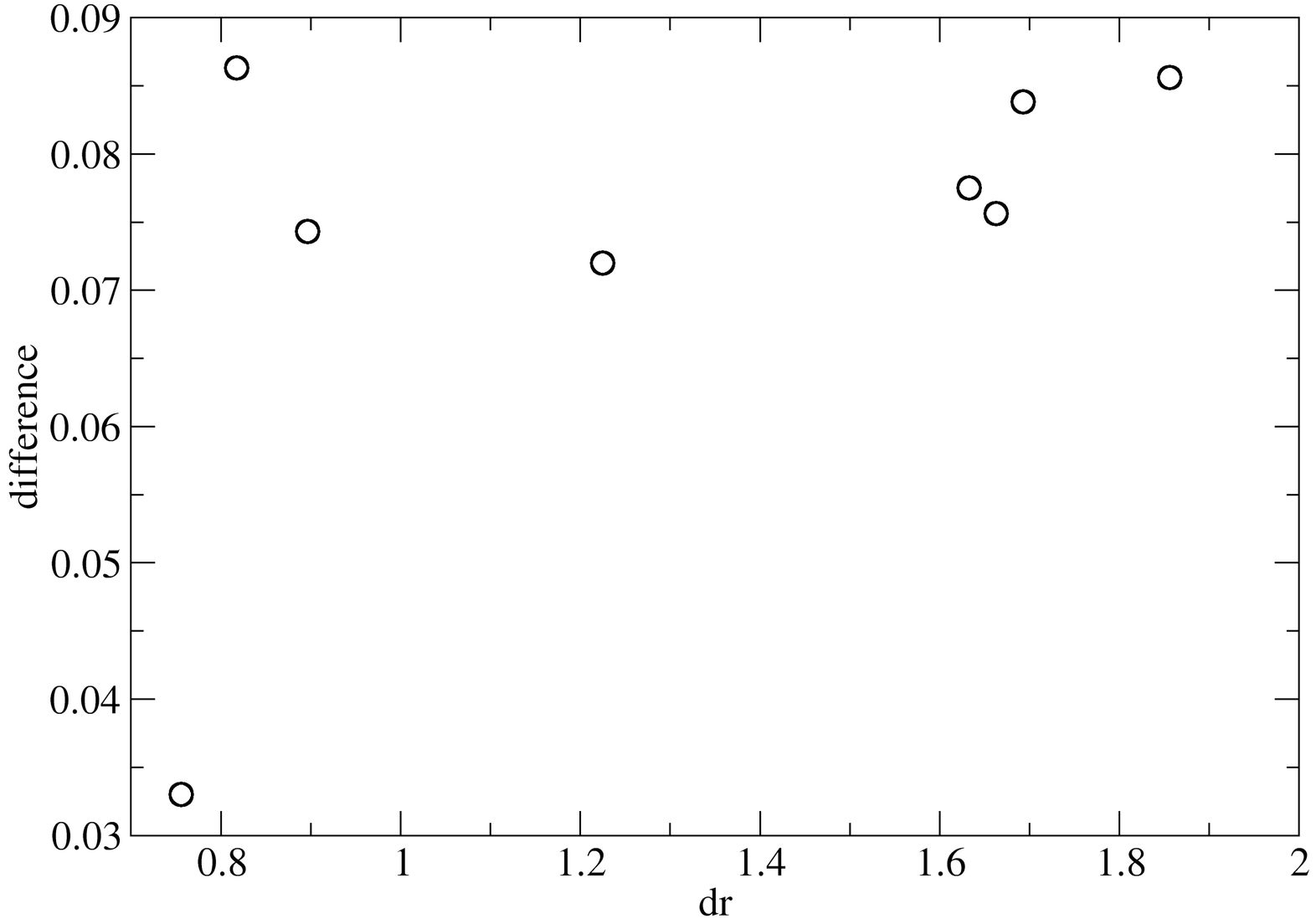
Calculation

我们以^{64}Ni为例，看一下他的一些结果



Calculation

根据上面的结果，我们将数据分散为散点图，希望能够找到一些规律



Calculation

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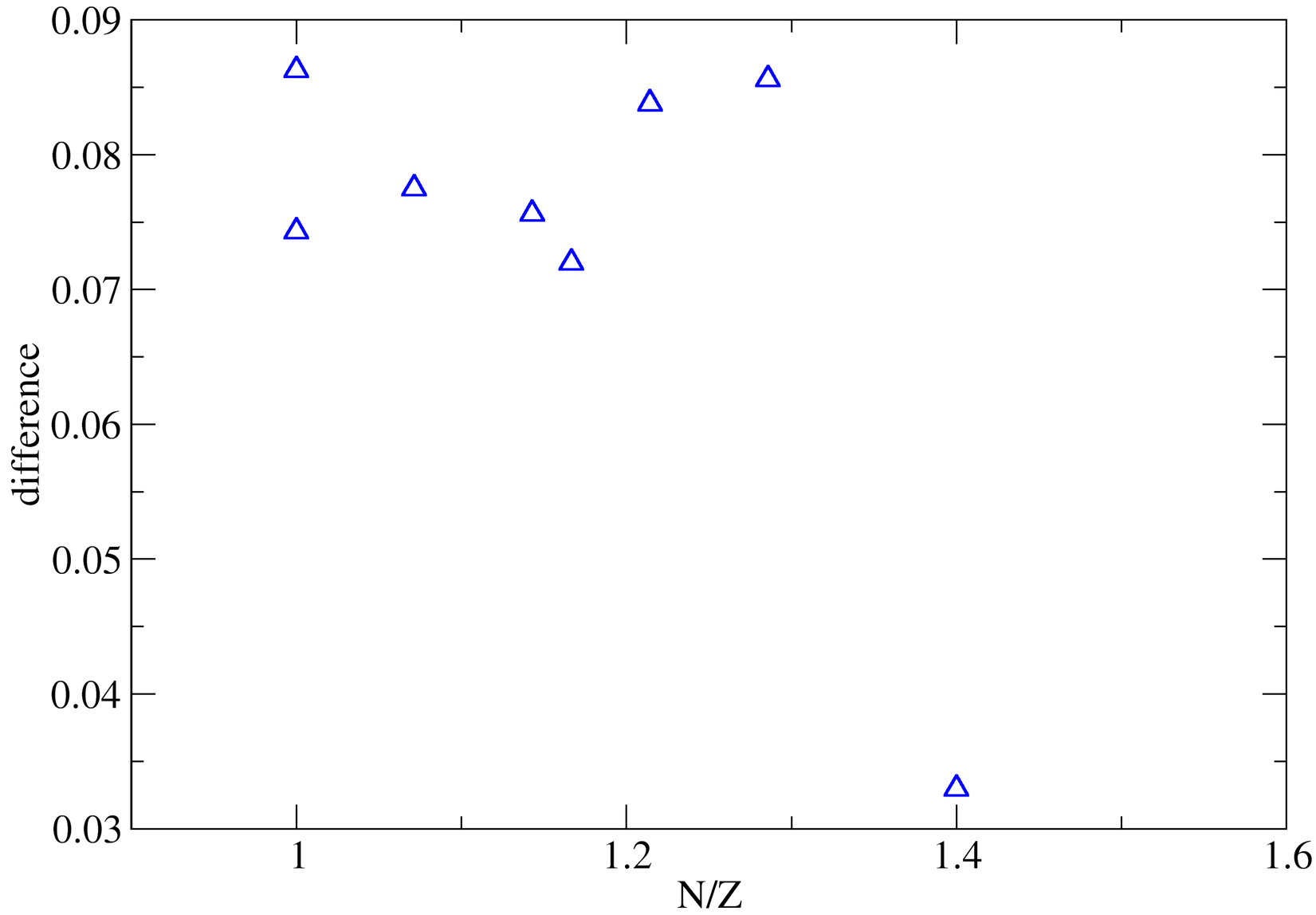

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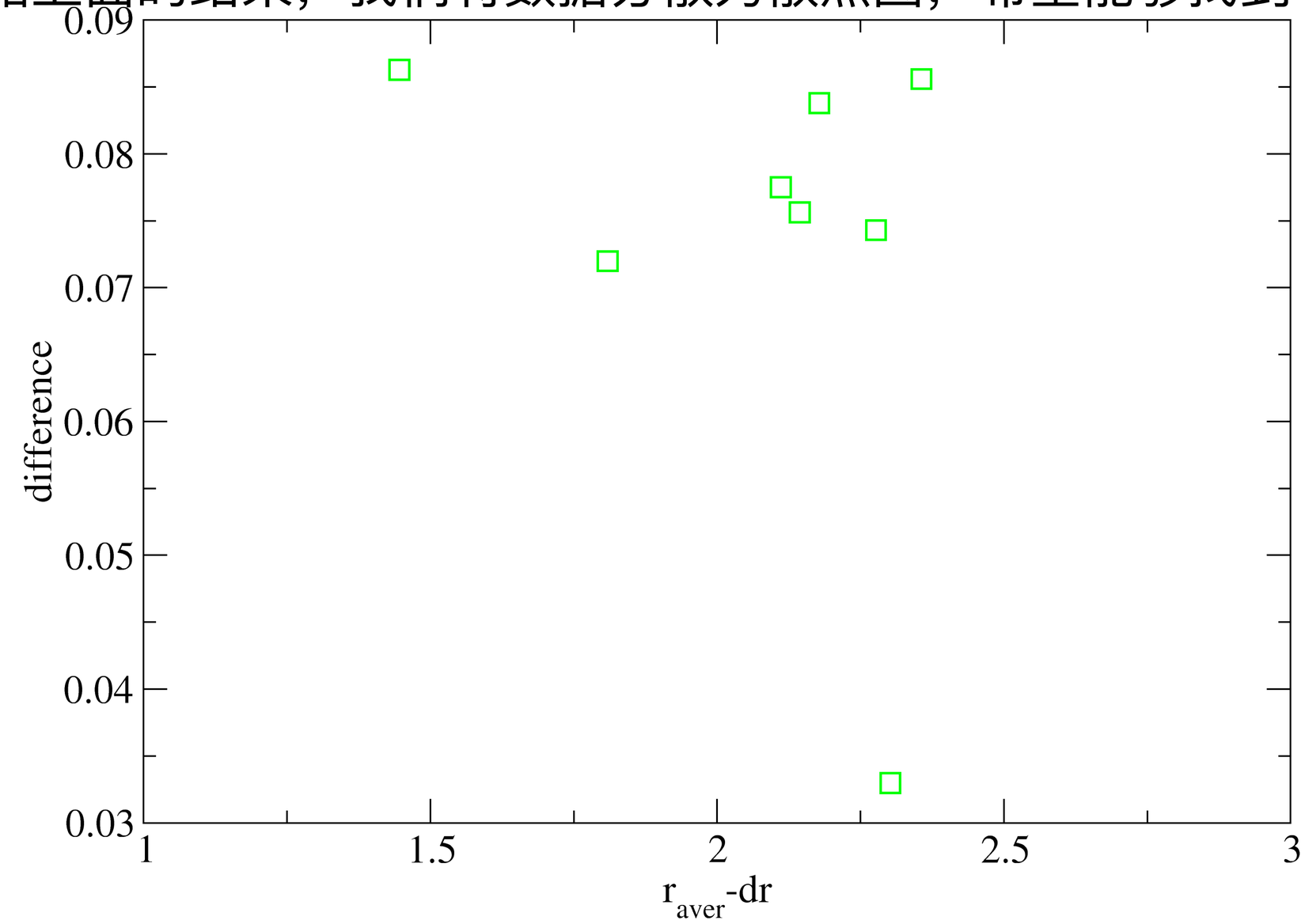

Calculation

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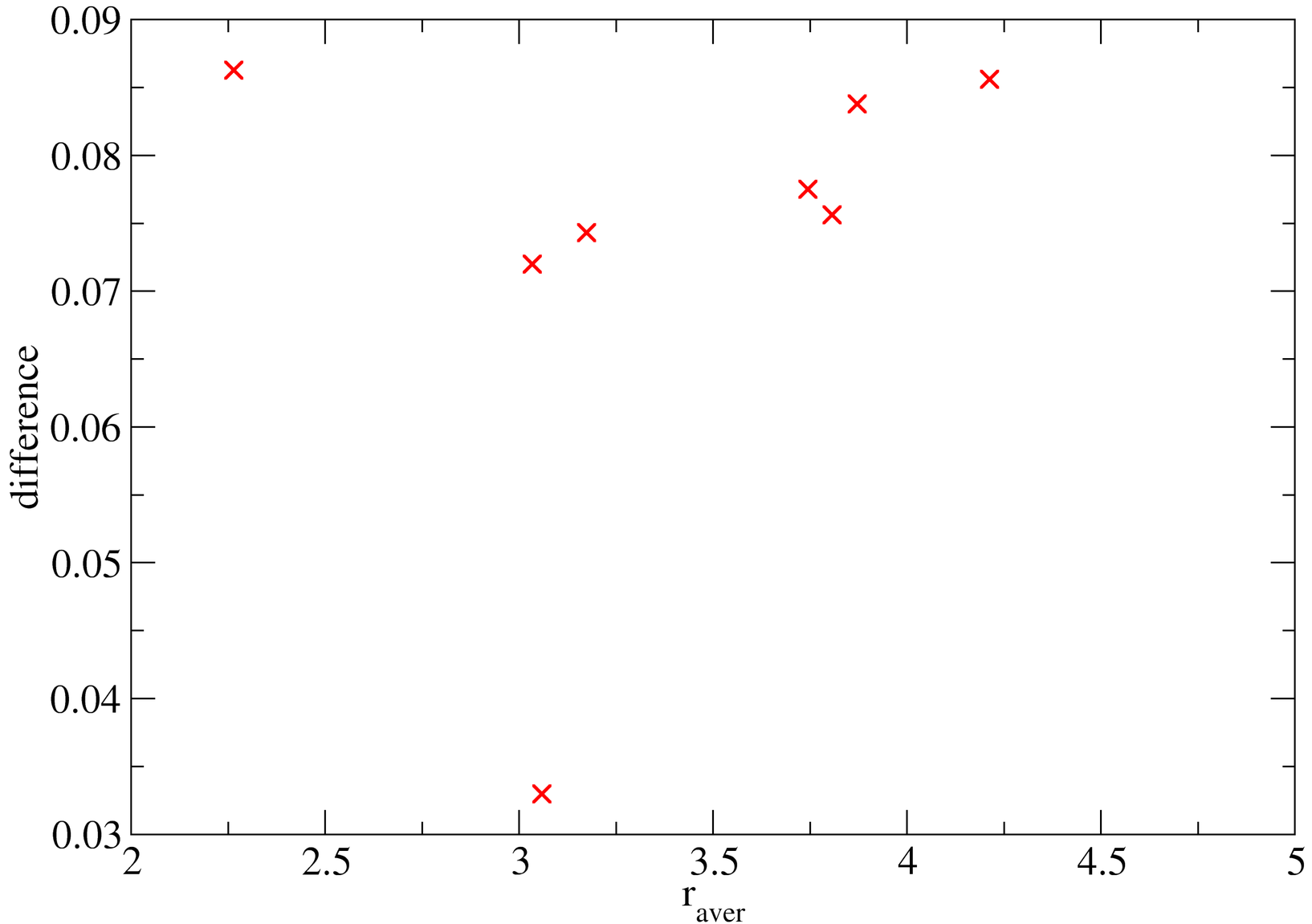

Calculation

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