

Group meeting

# WD 的调整

在低能的情况下，对与弹性微分散射截面后角区的会偏小，这是由于surface absorption 太强所导致的，因此，我们要对表面吸收项的系数 $WD$ 进行一个调整。

我们将 $WD$ 乘以一个系数 $\gamma$ ，让 $\gamma$ 在0到1的范围内以0.01的步长变化，每变化一次就计算一次微分散射截面，并求计算值和实验值的方差 $\chi^2$ 。

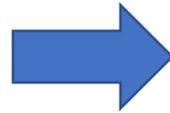
$$\chi^2 = \sum \left[ \frac{d\sigma}{d\Omega}(i)_{cal} - \frac{d\sigma}{d\Omega}(i)_{exp} \right]^2$$

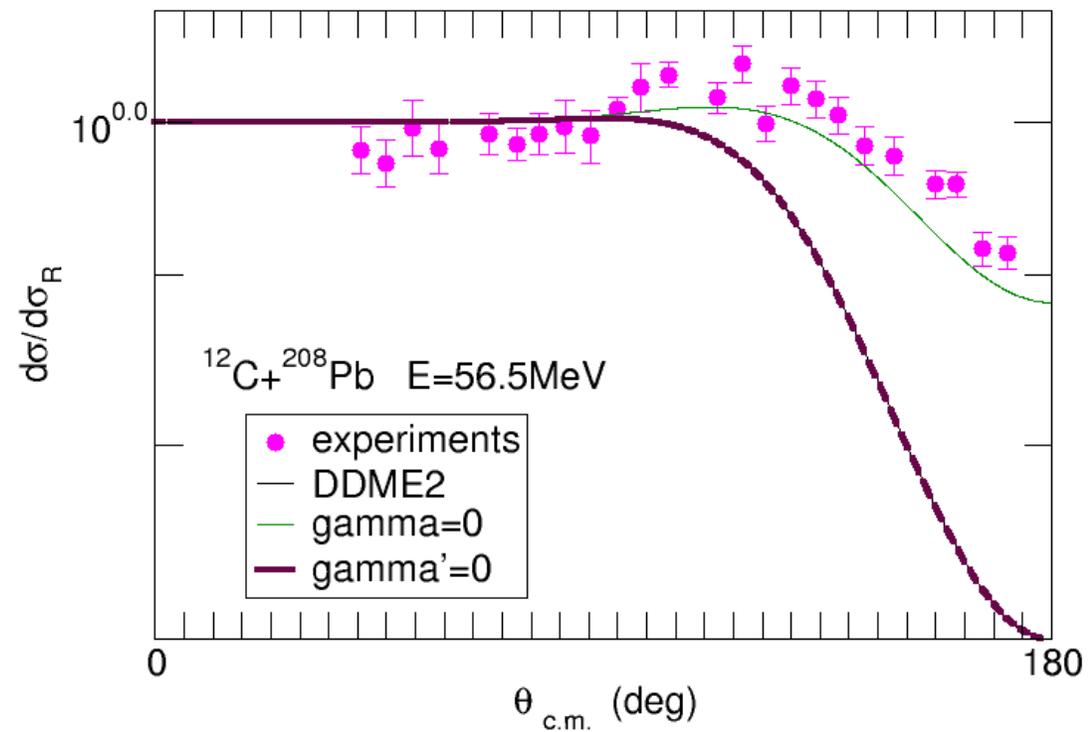
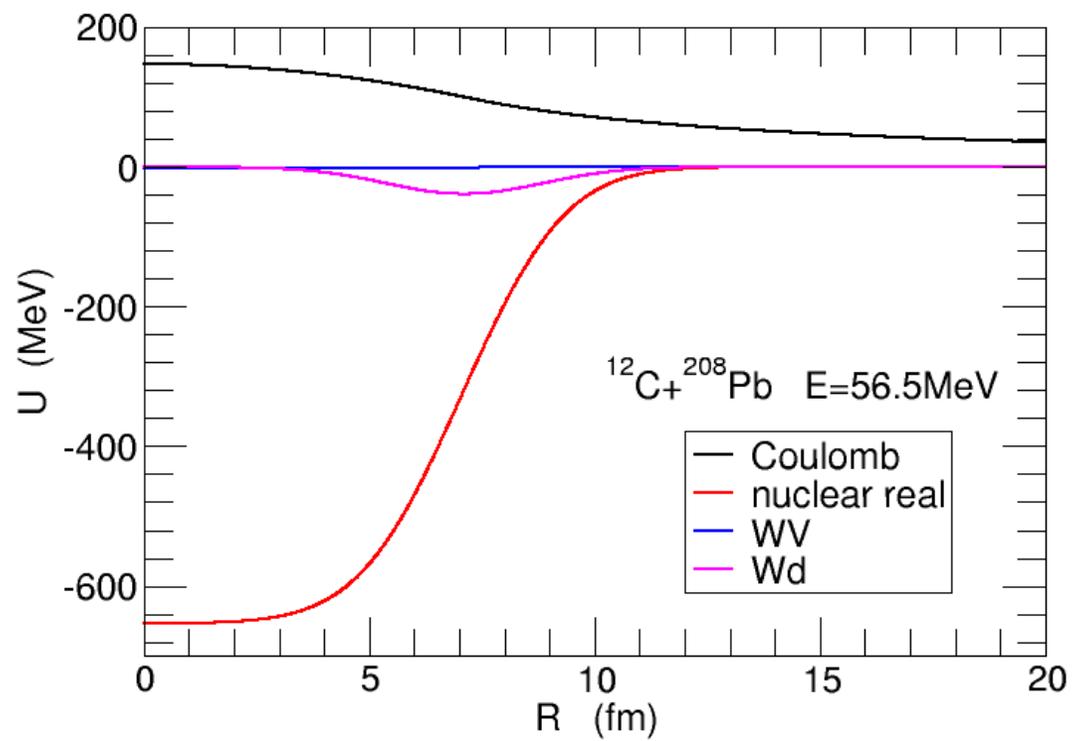
选取当  $\chi^2$  有最小值时的那次计算的微分散射截面，看看其与实验数据是符合的较好。

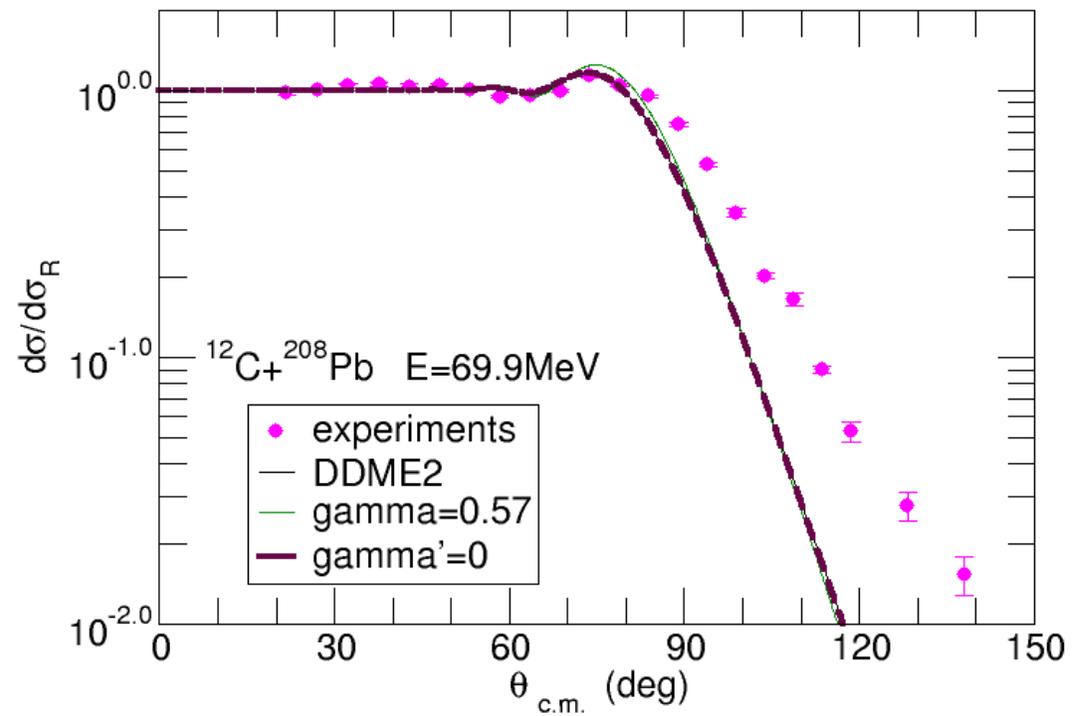
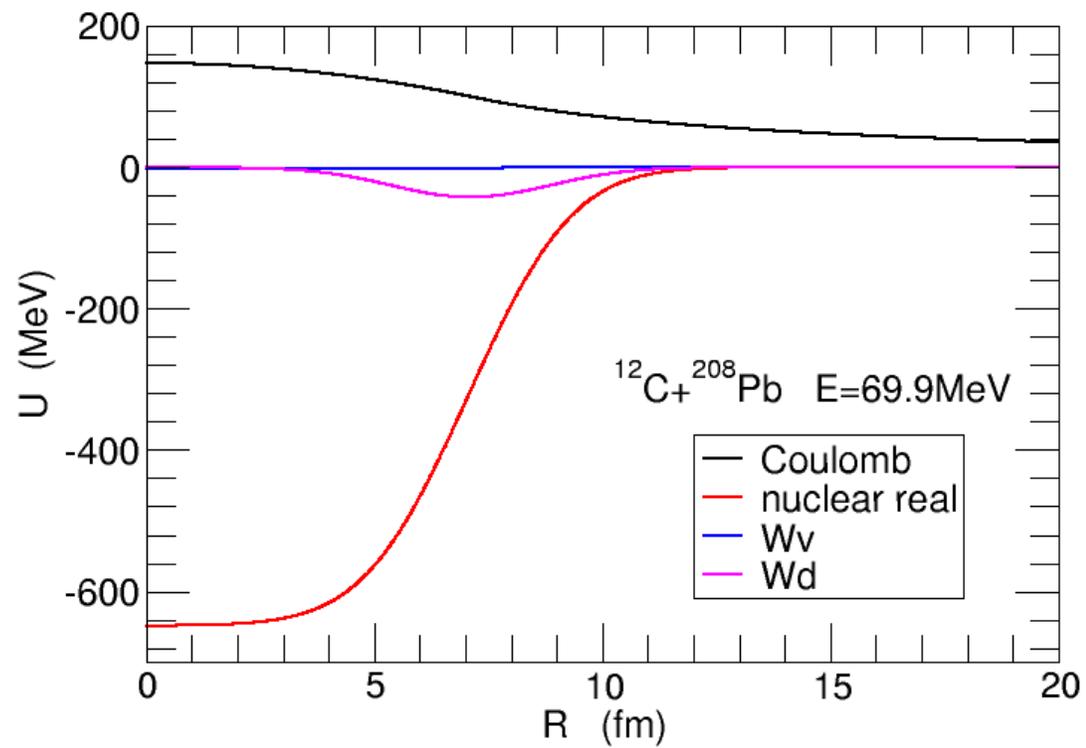
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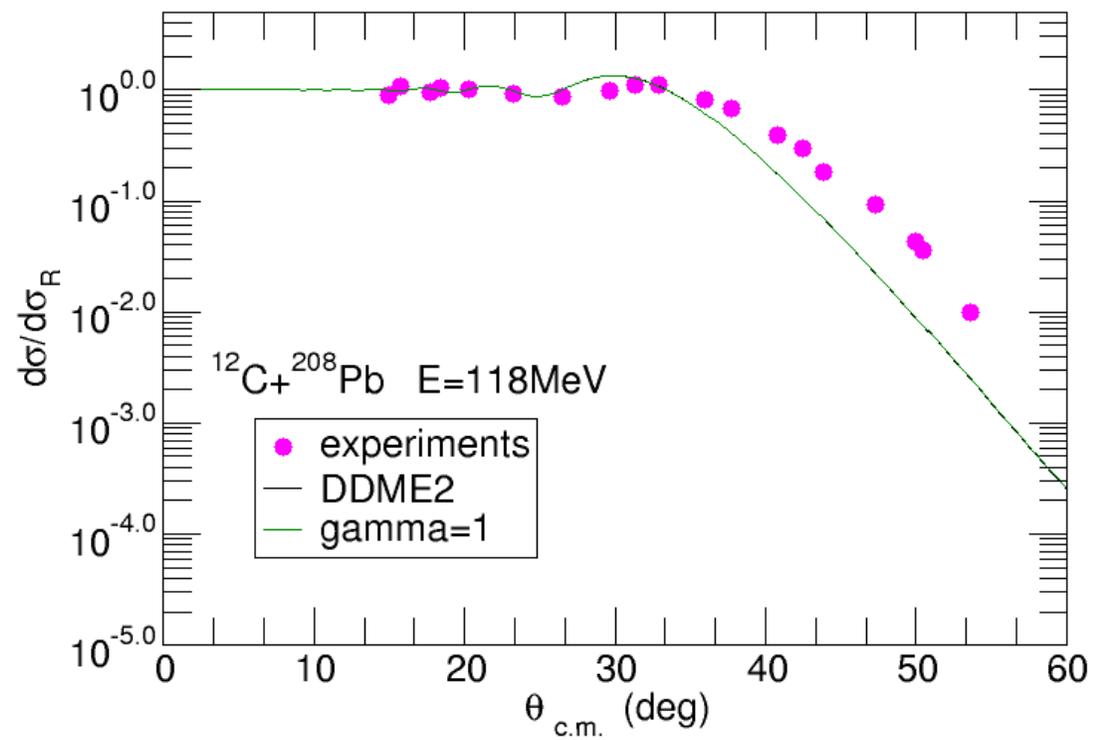
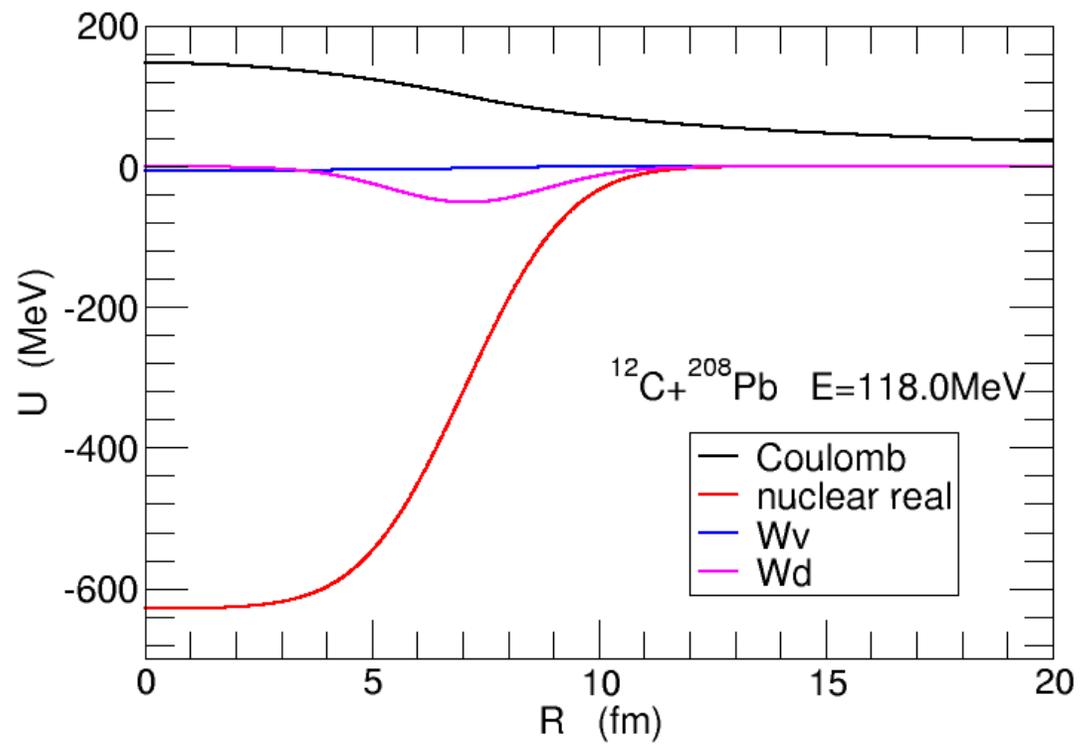
C12+Pb208 体系

E (MeV)	gamma
56.5	0.00
57.0	0.00
58.9	0.05
60.9	0.00
62.9.	0.30
64.9	0.37
69.9	0.57
74.9	0.67
84.9	0.92
118.0	1.00

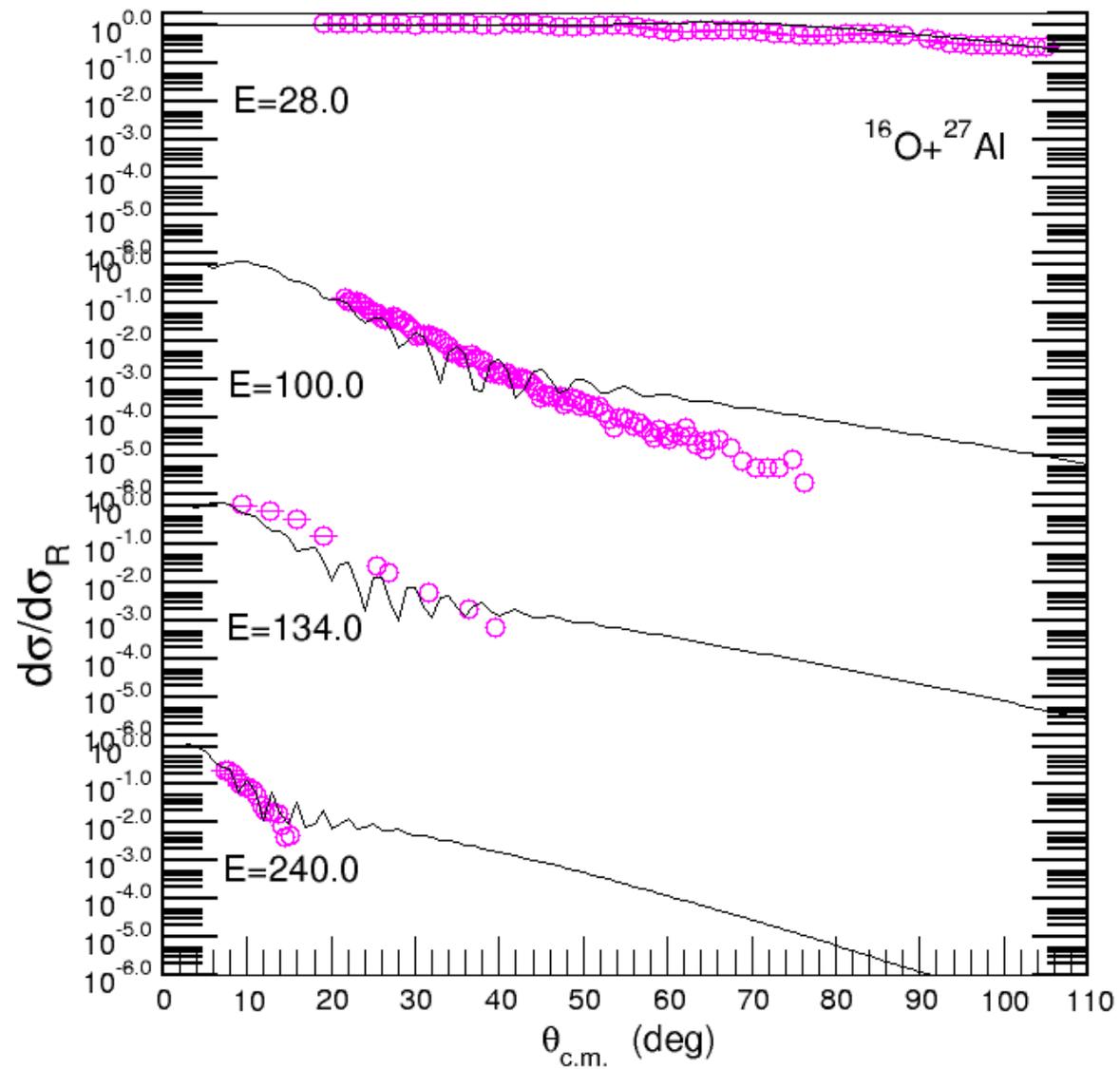
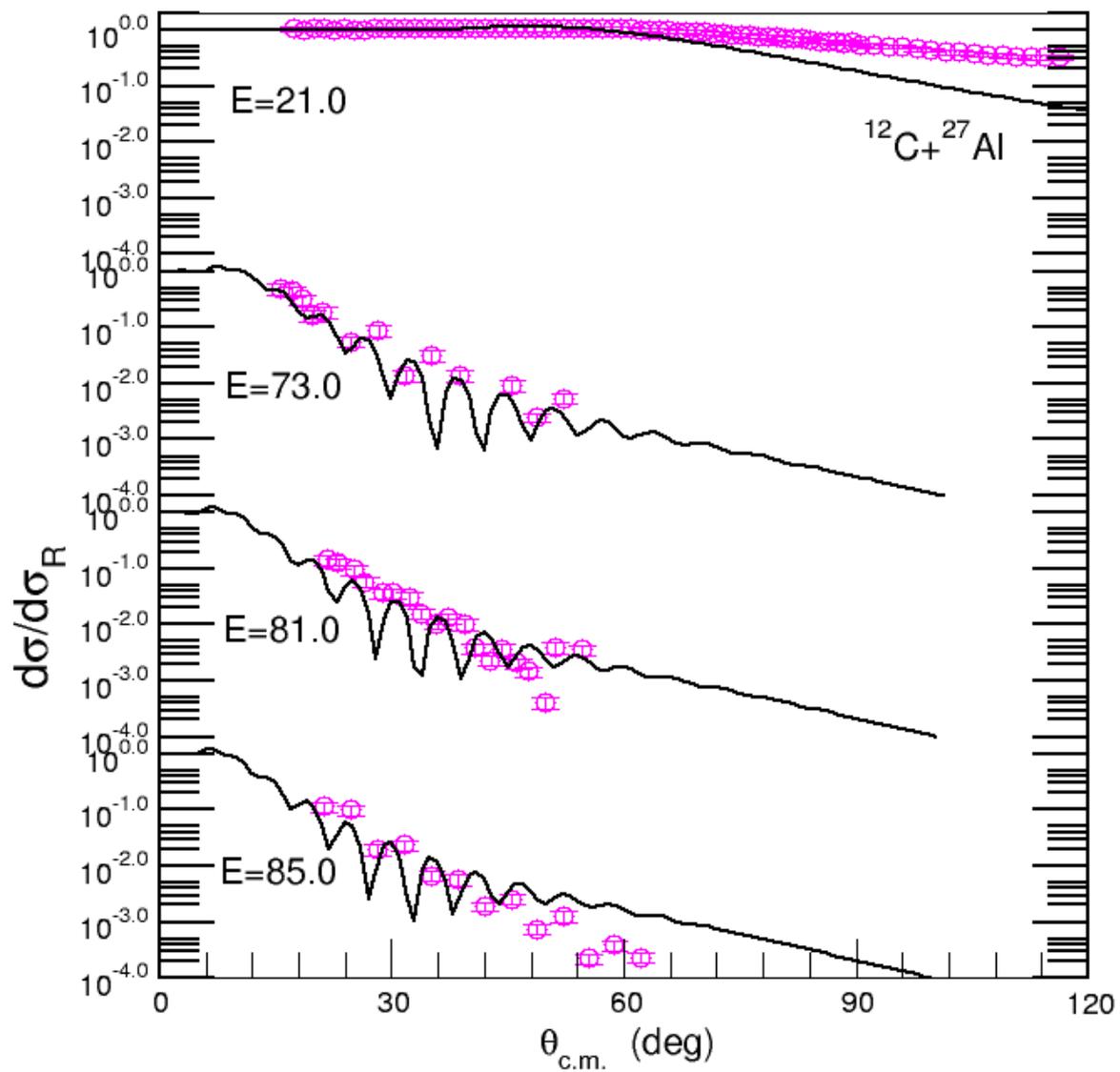


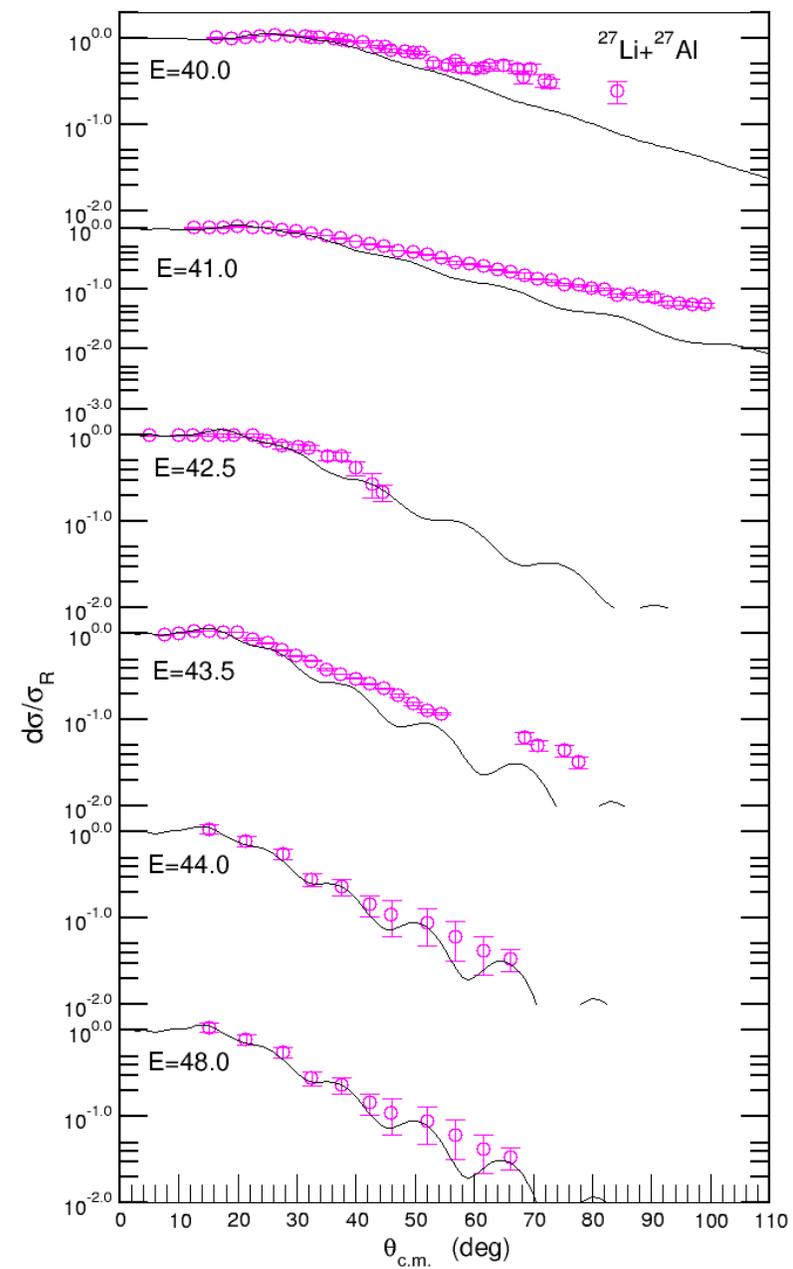
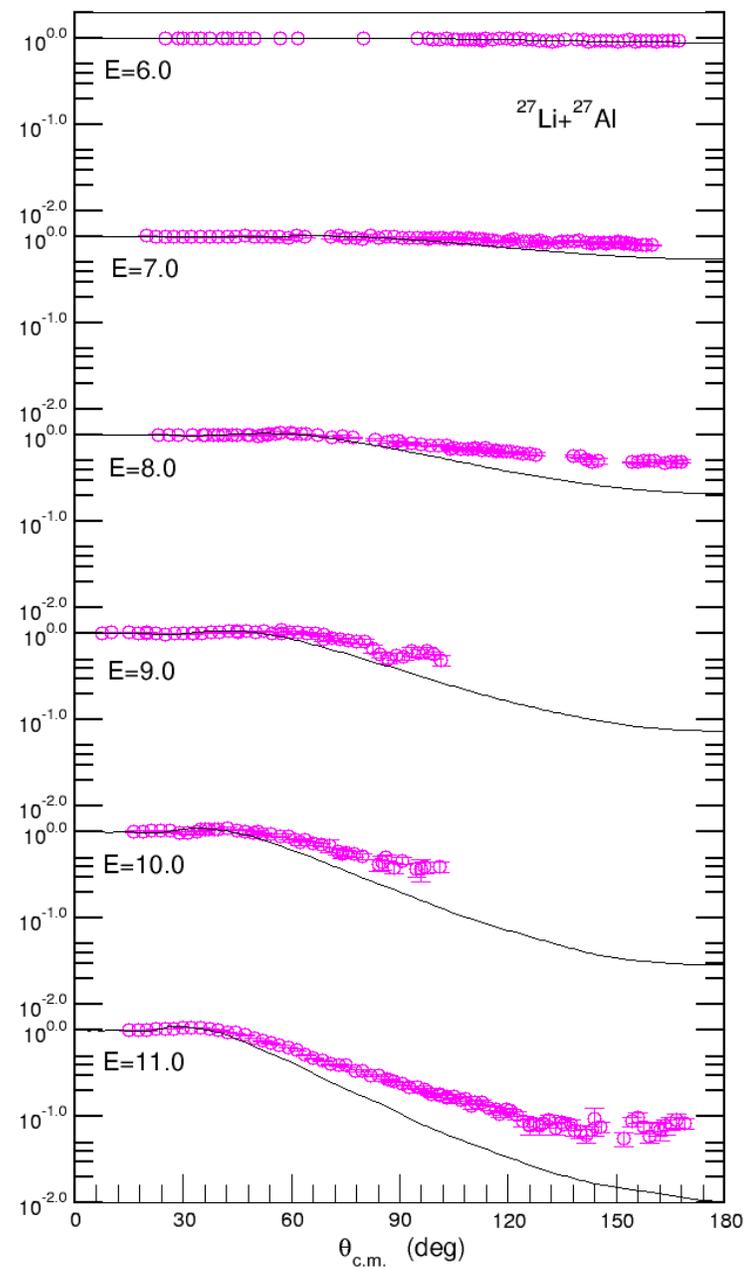
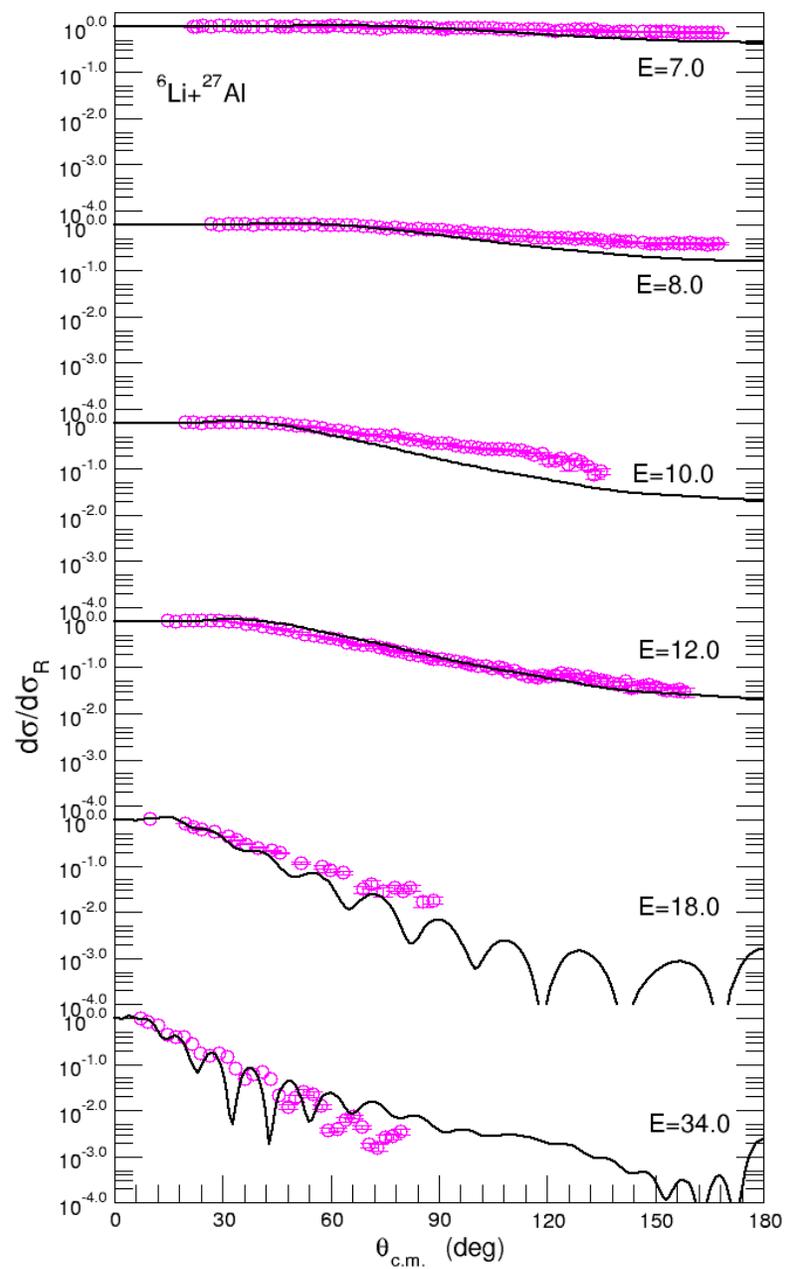




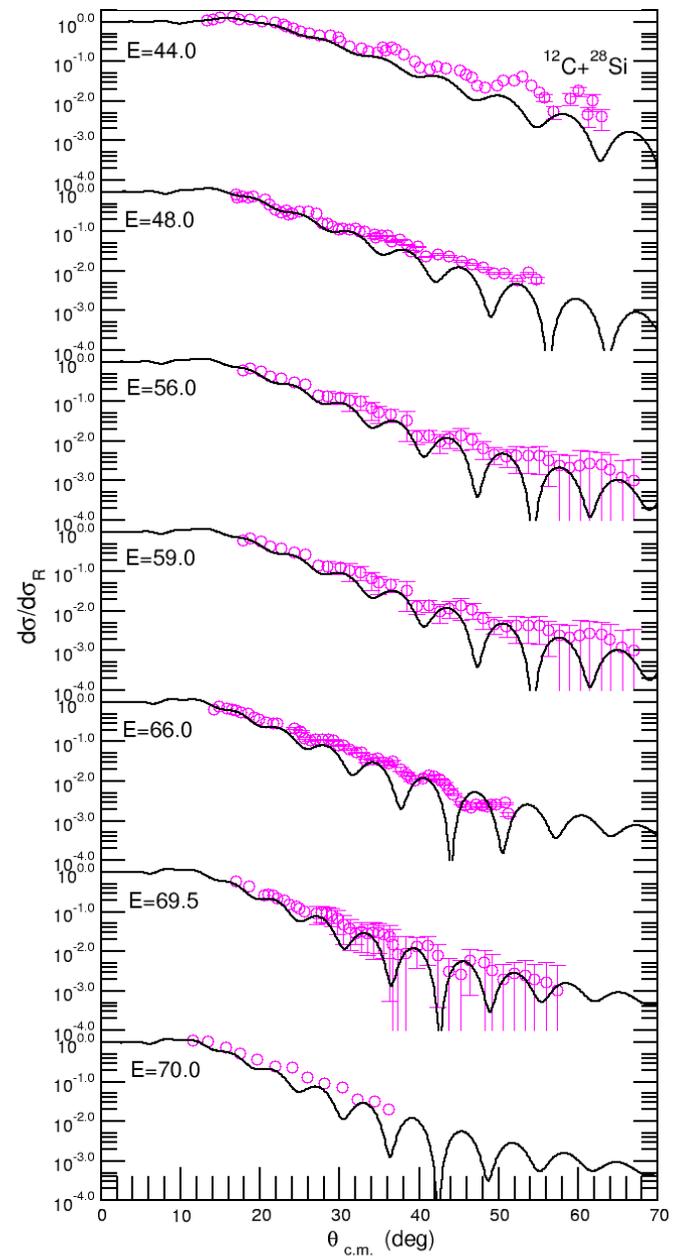
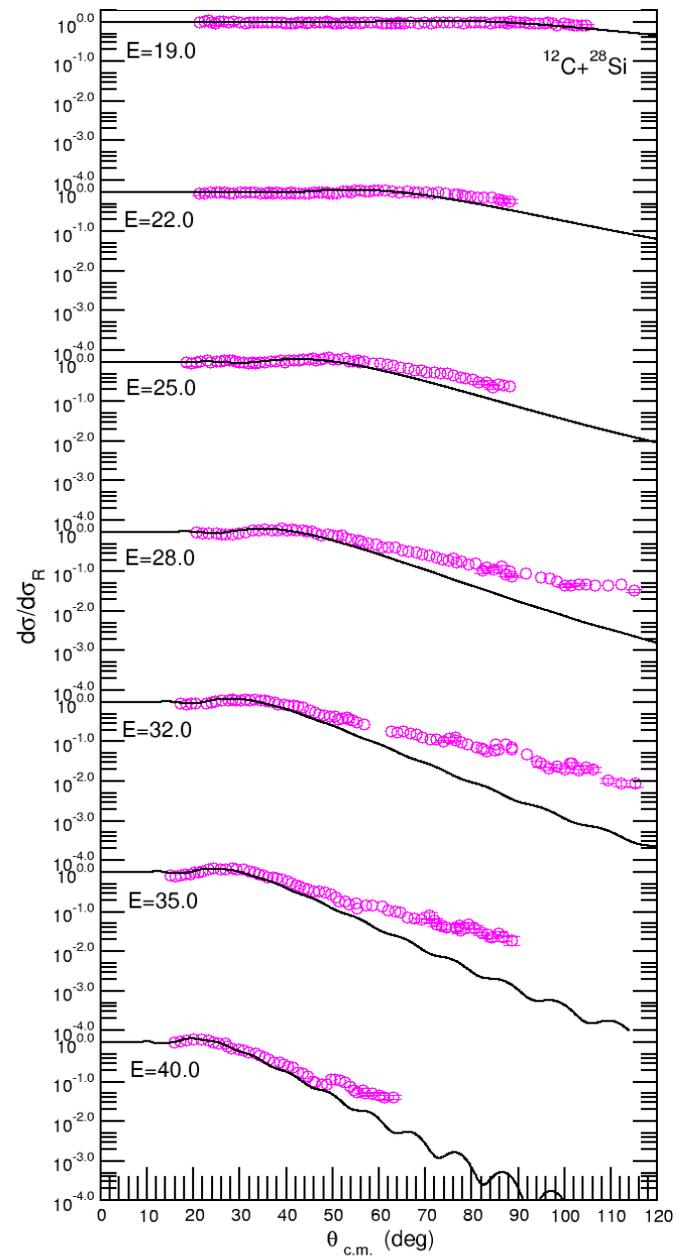


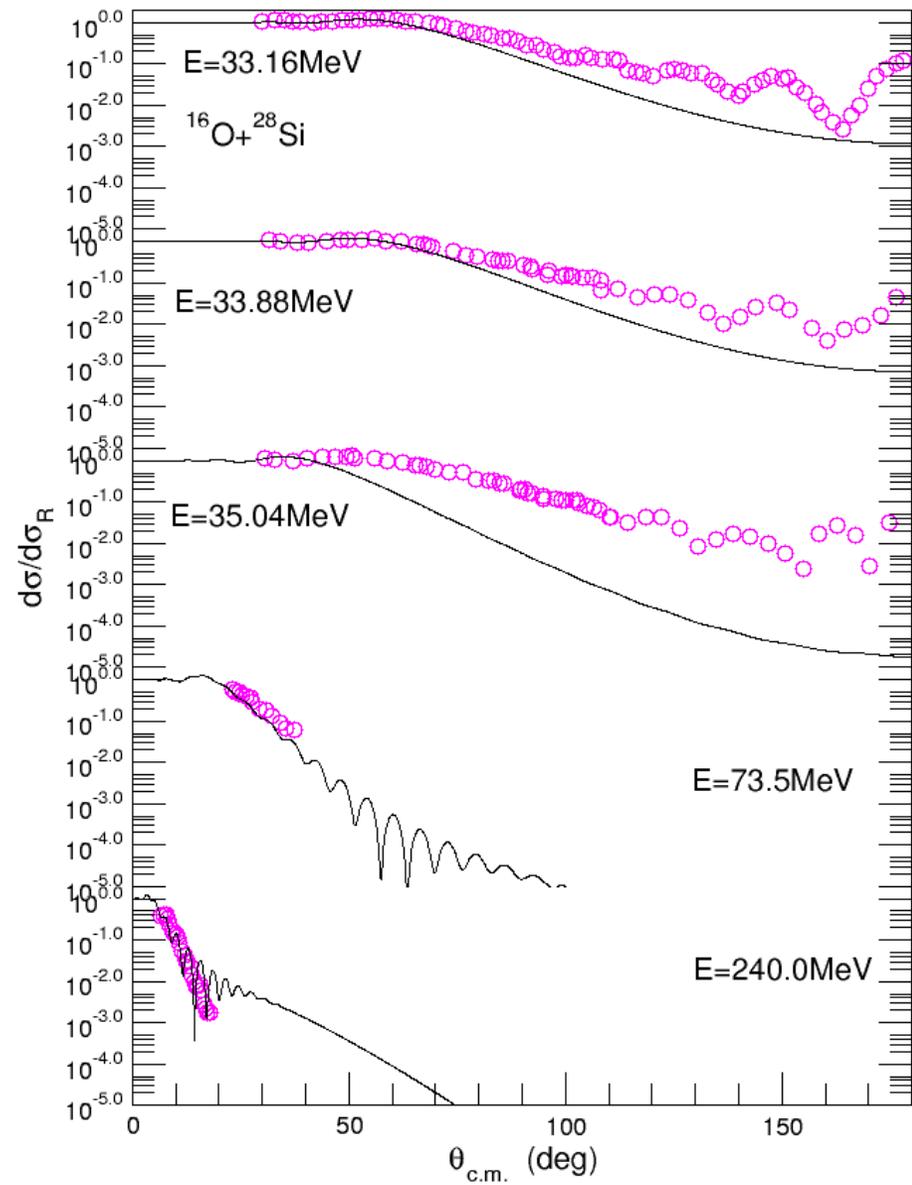
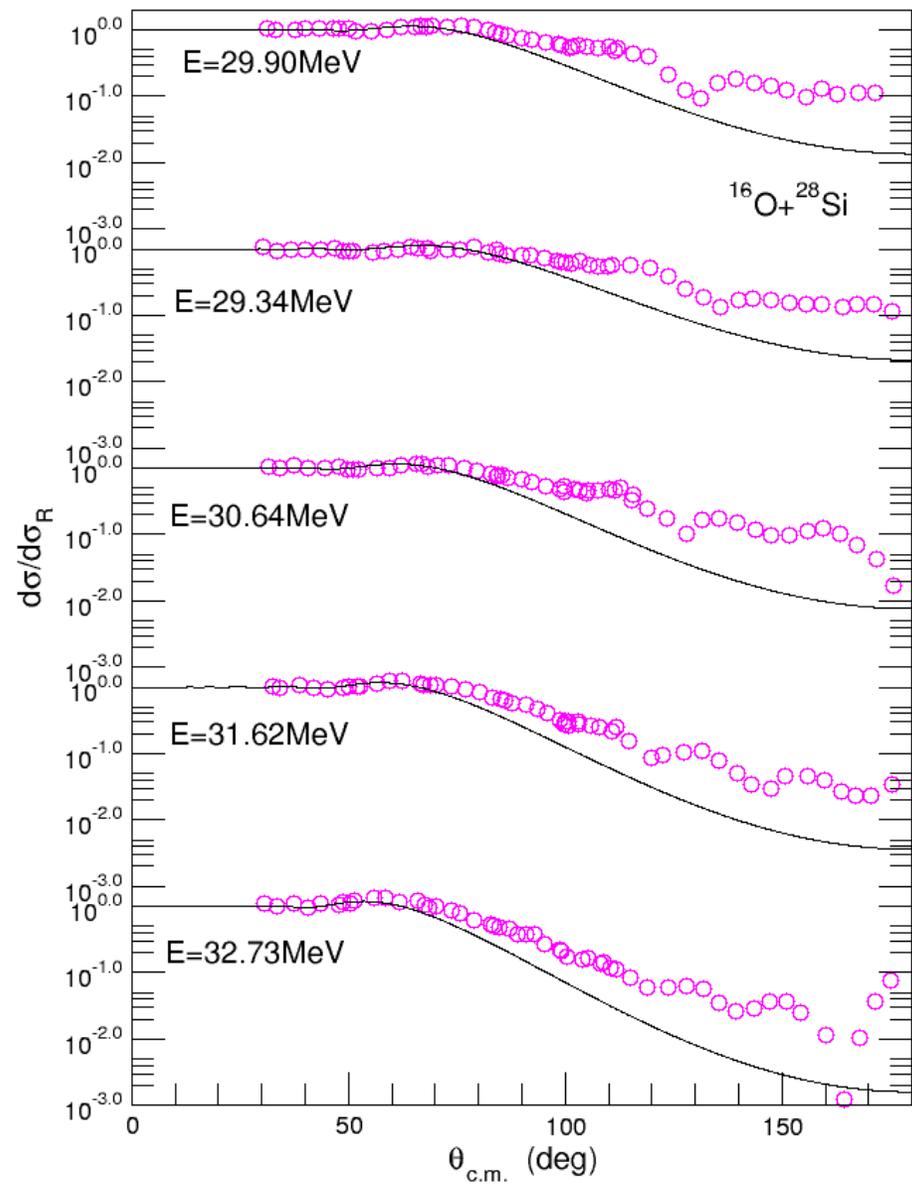
AI27

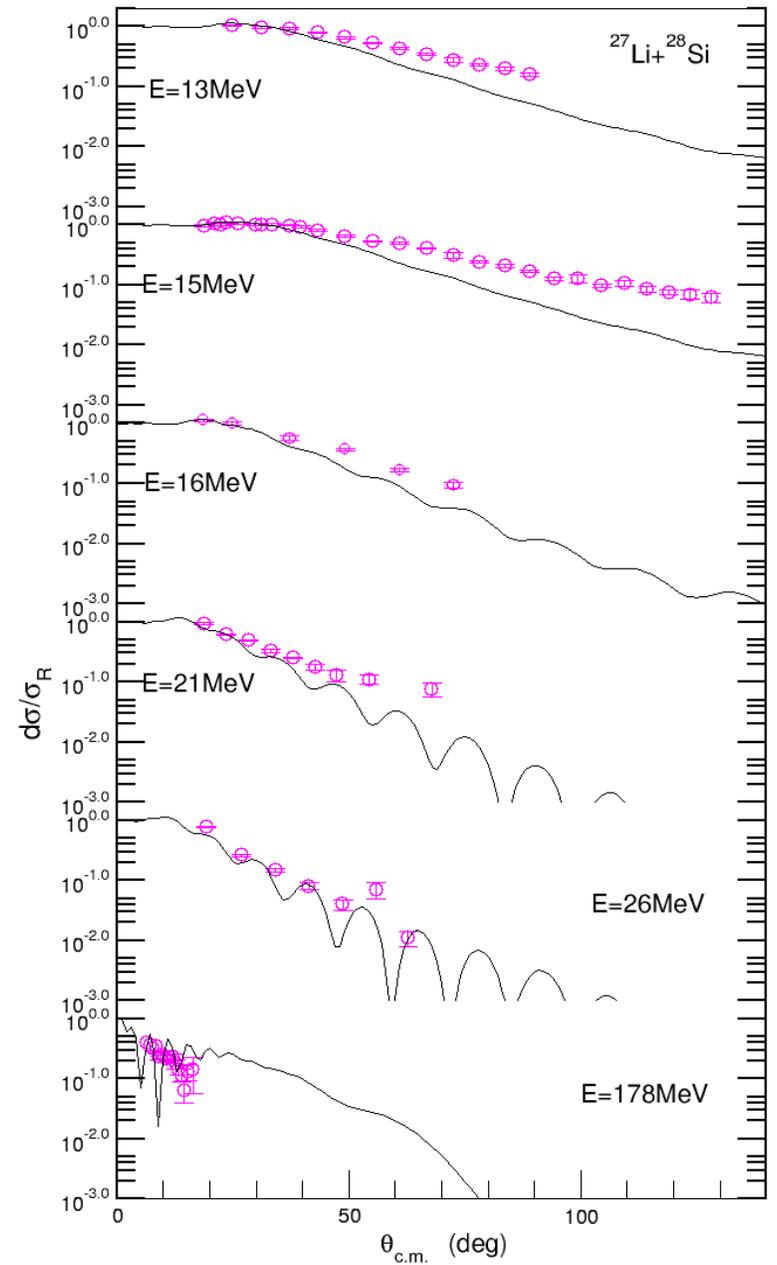
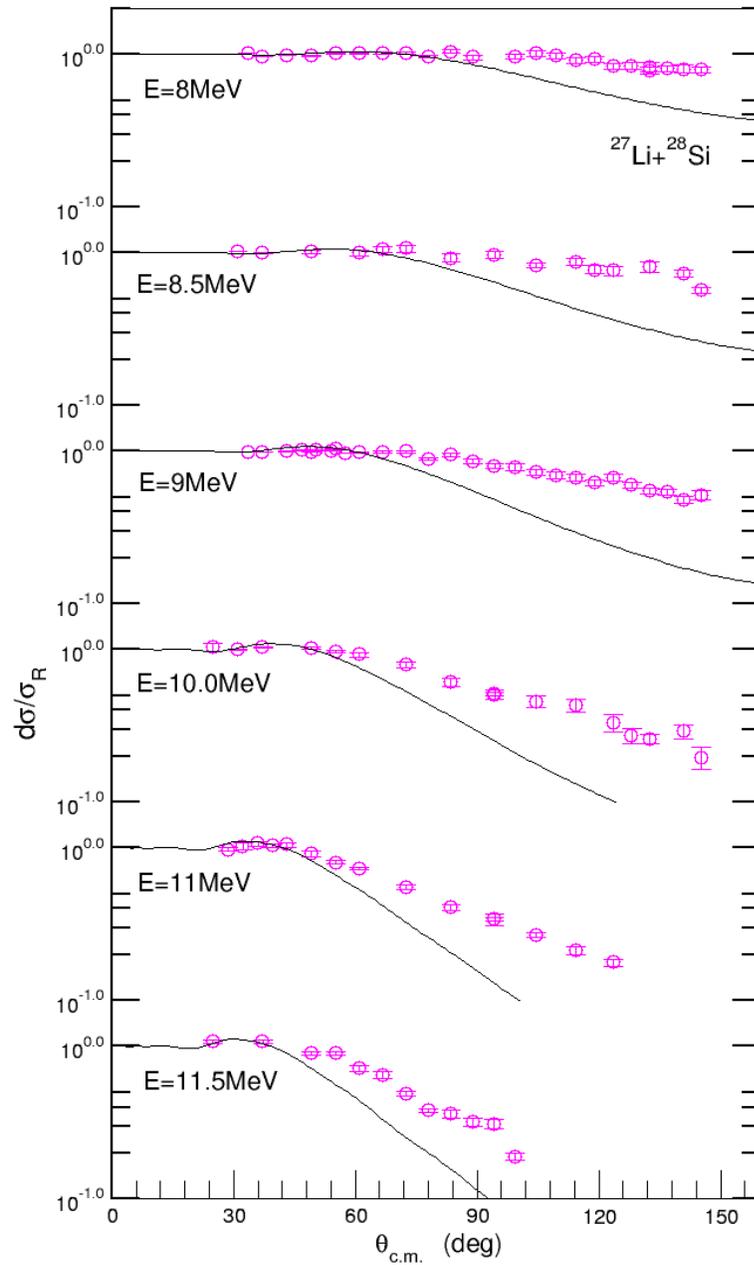
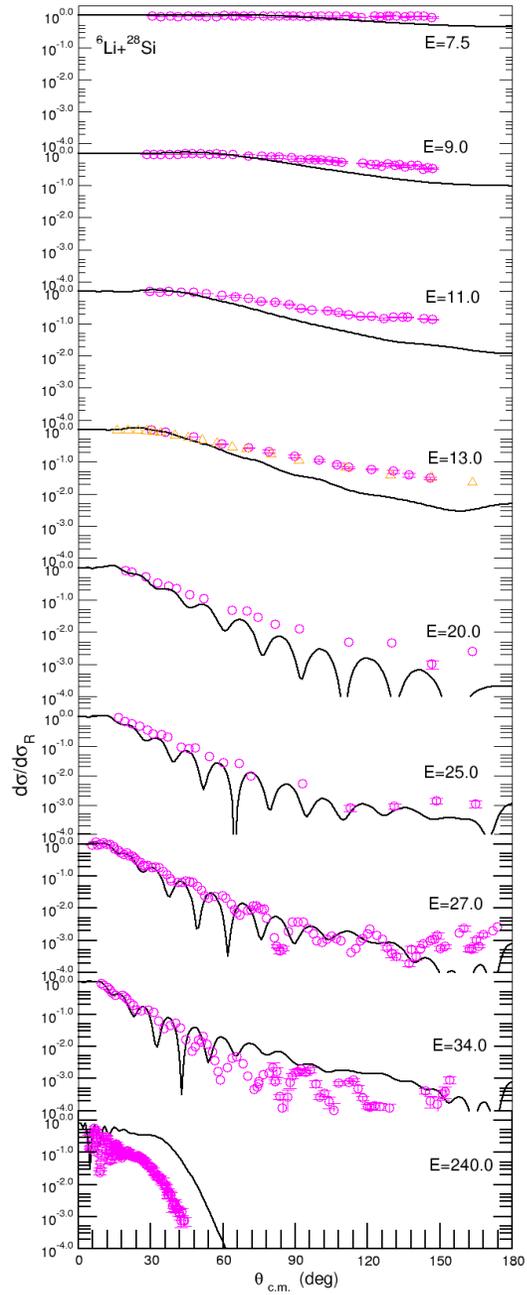




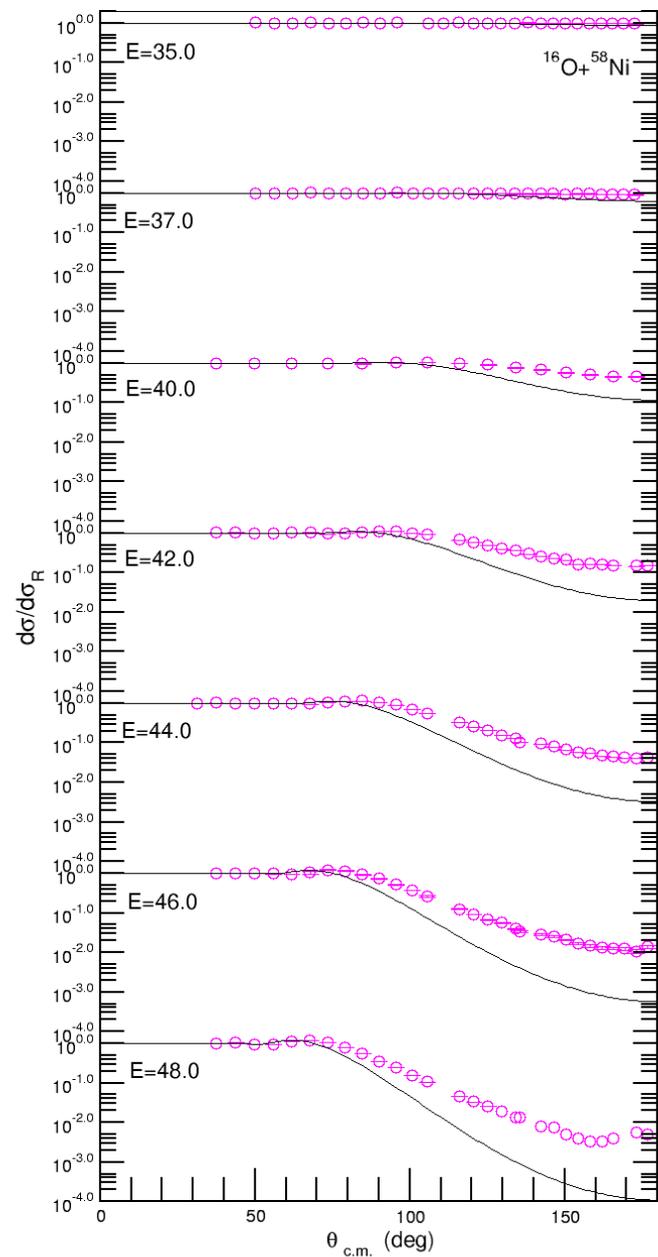
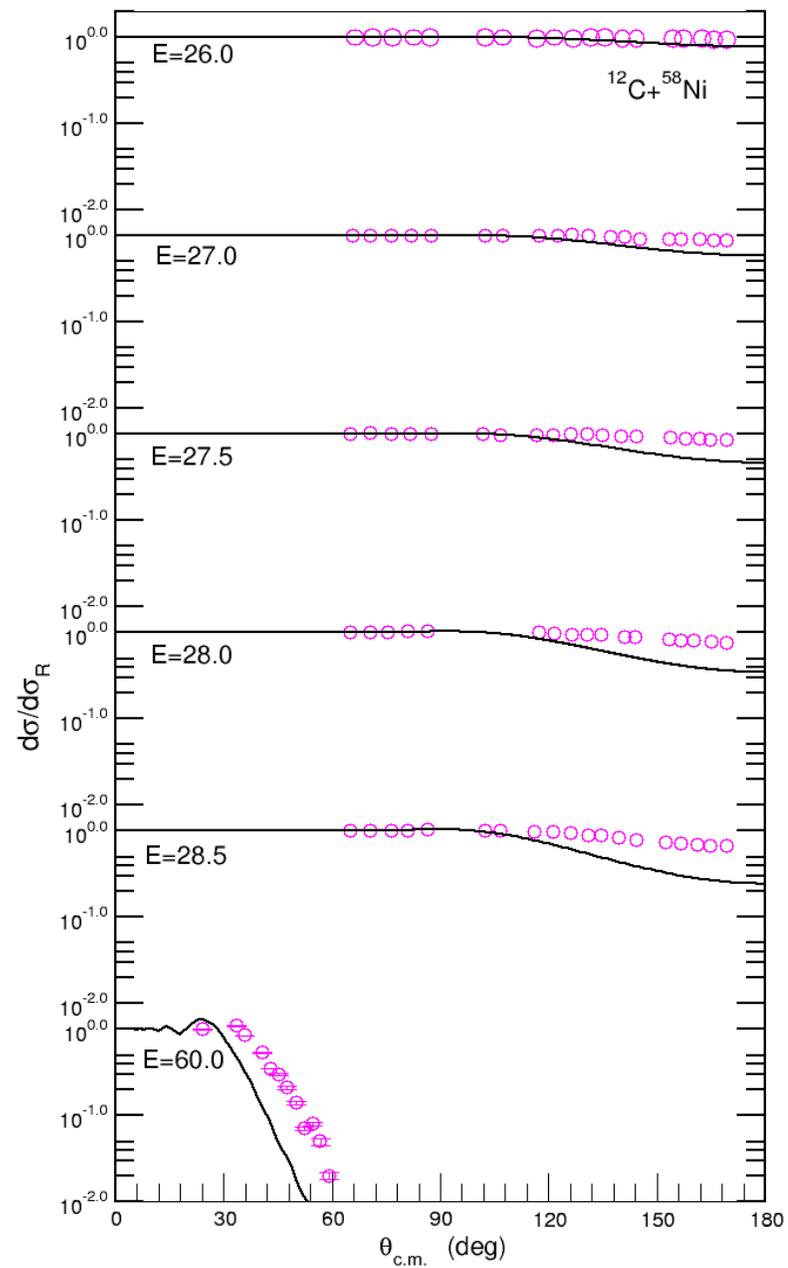
Si28

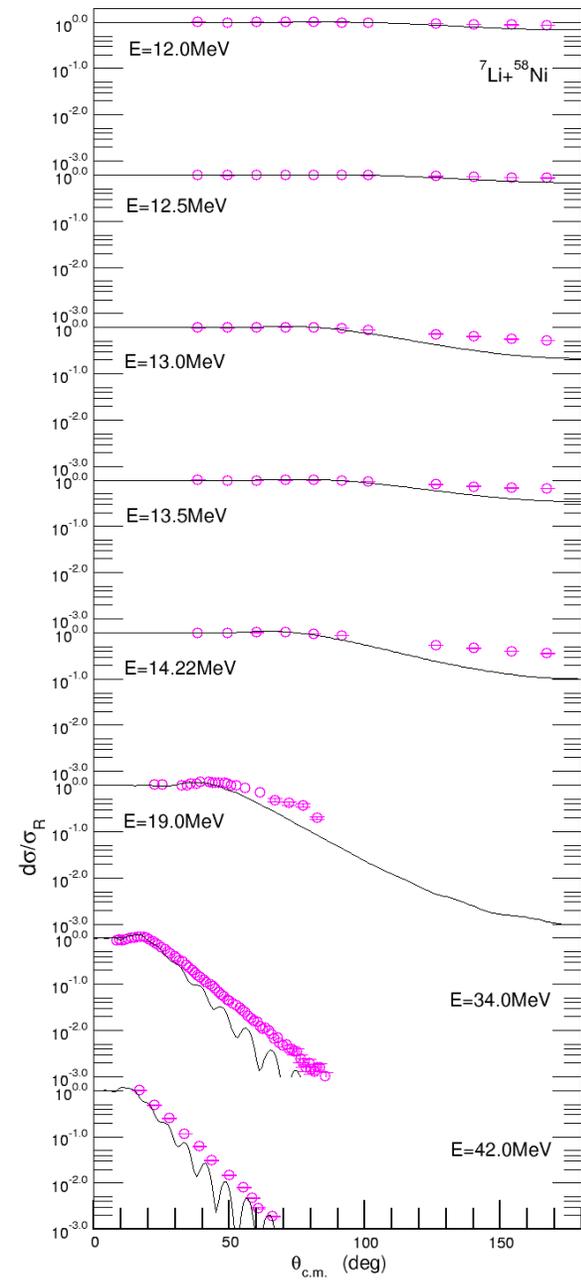
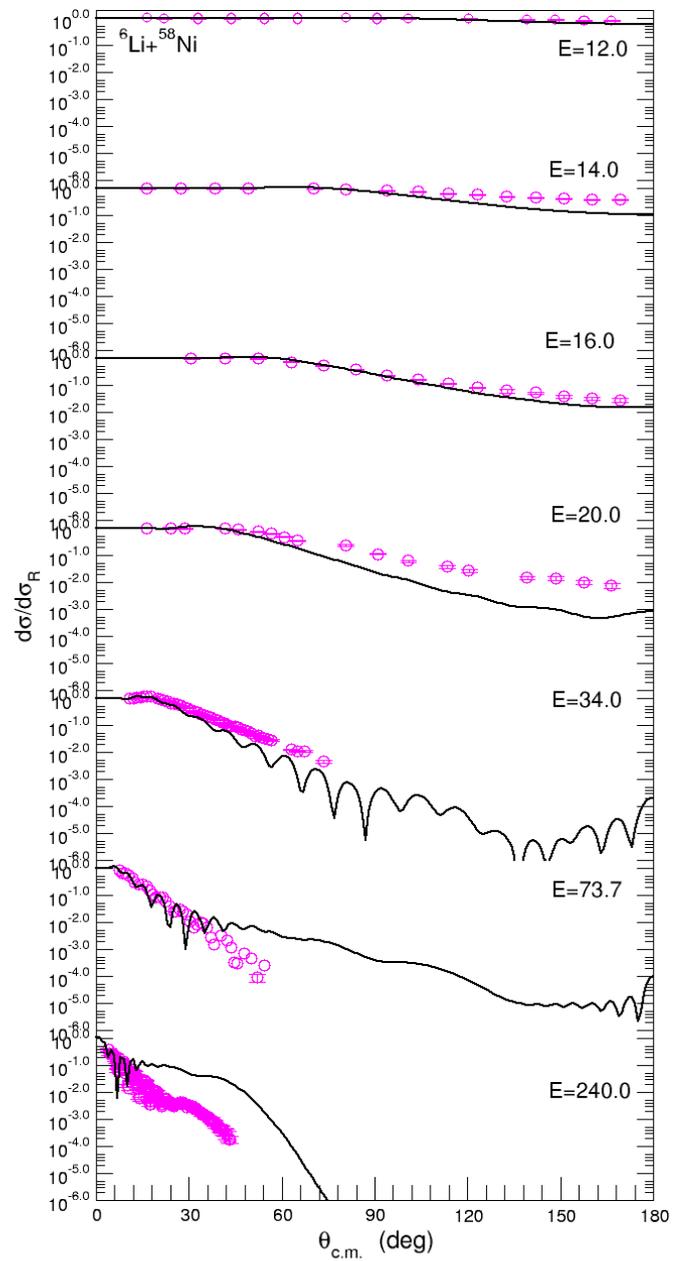




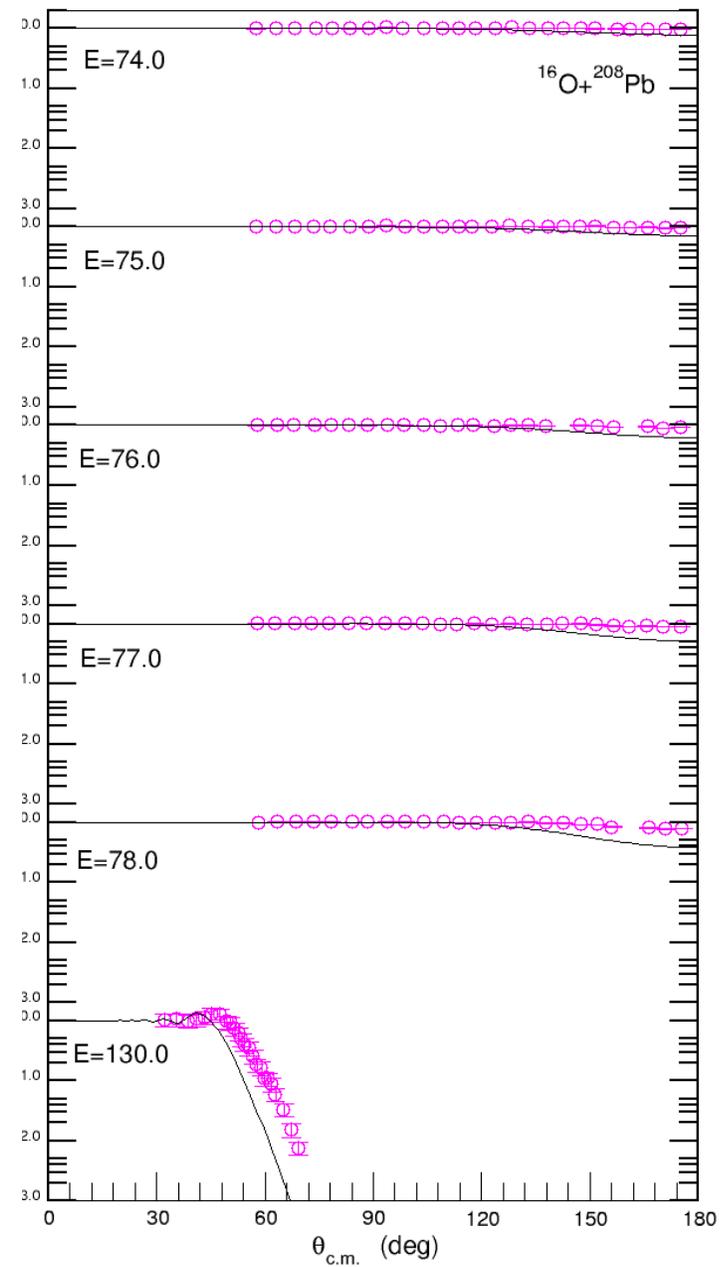
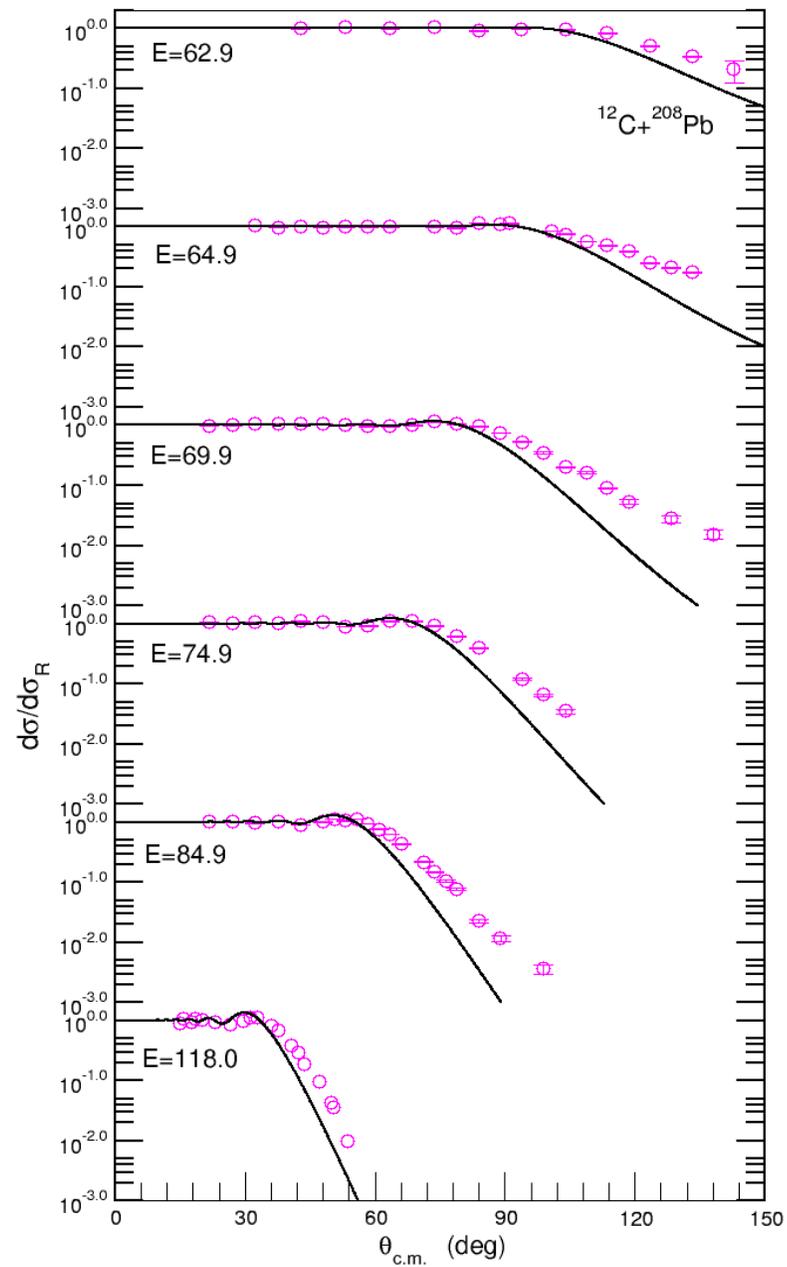
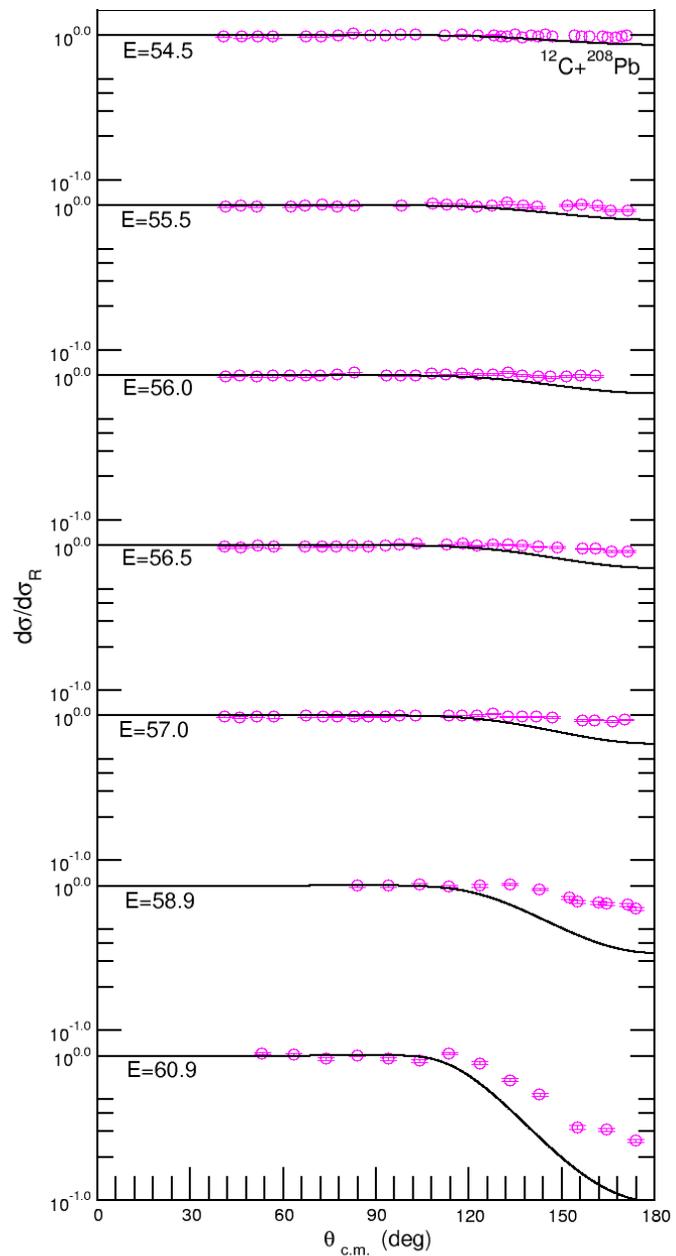


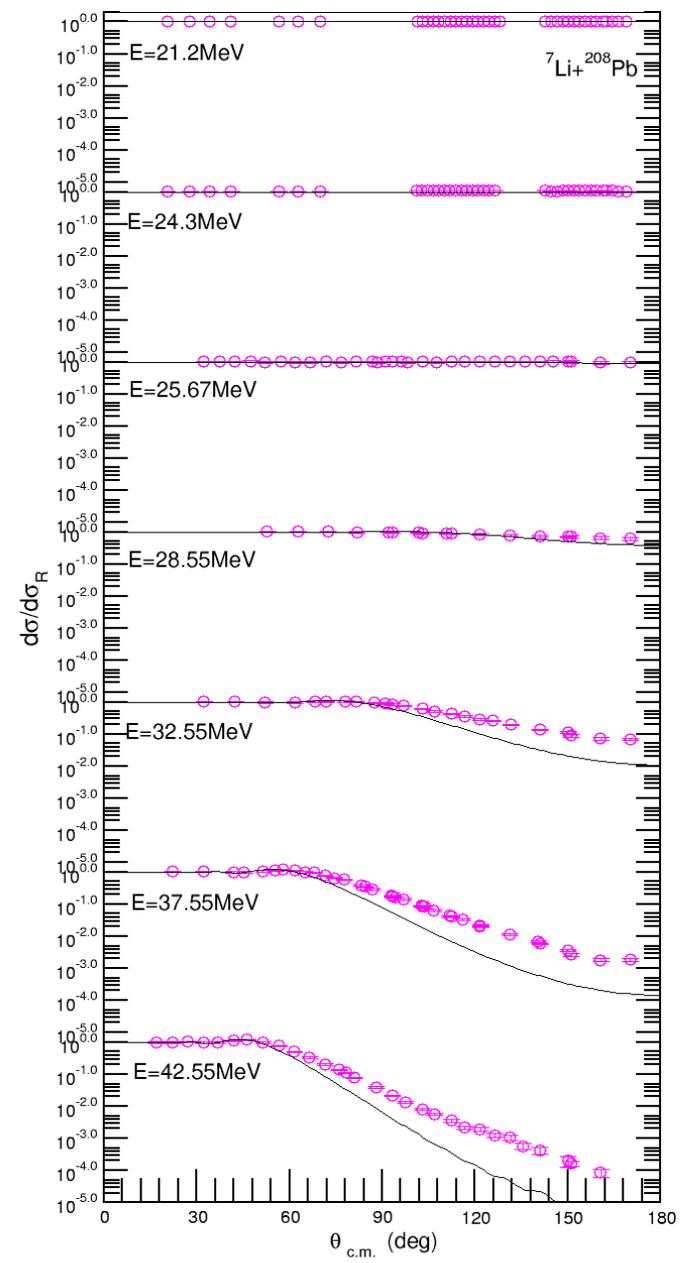
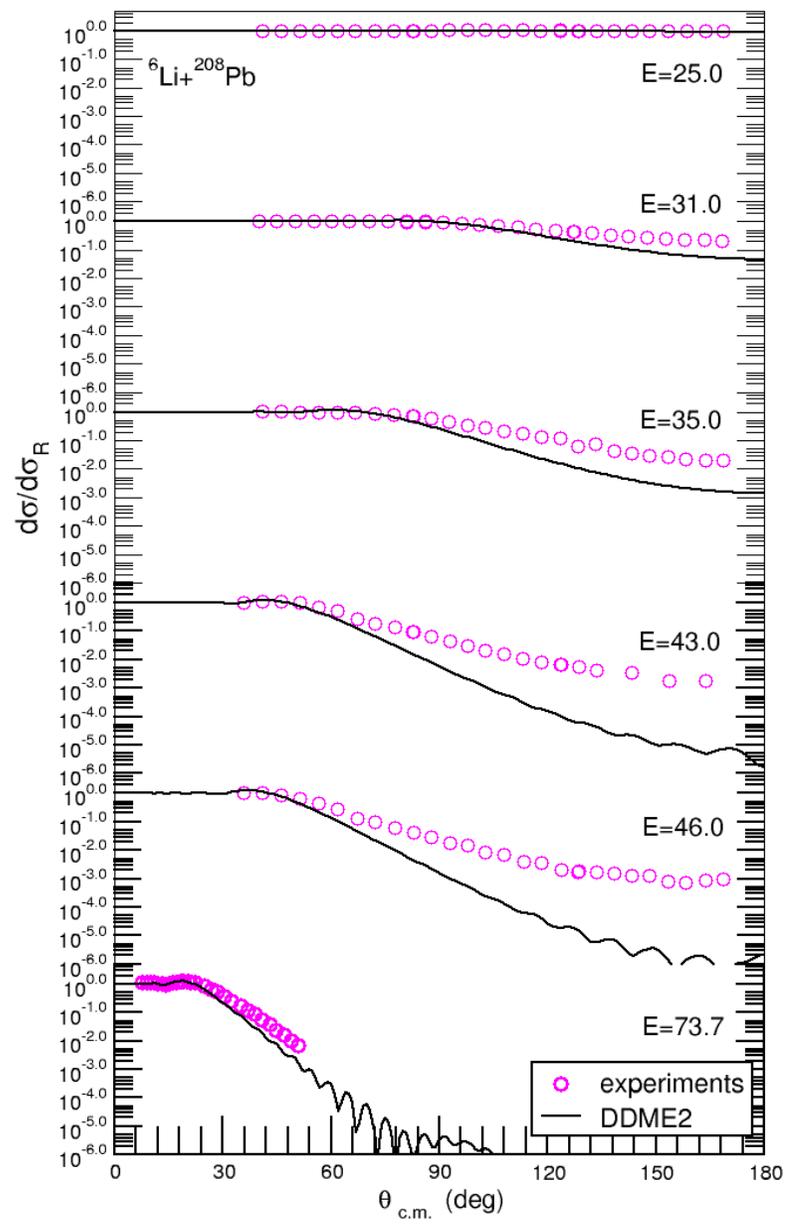
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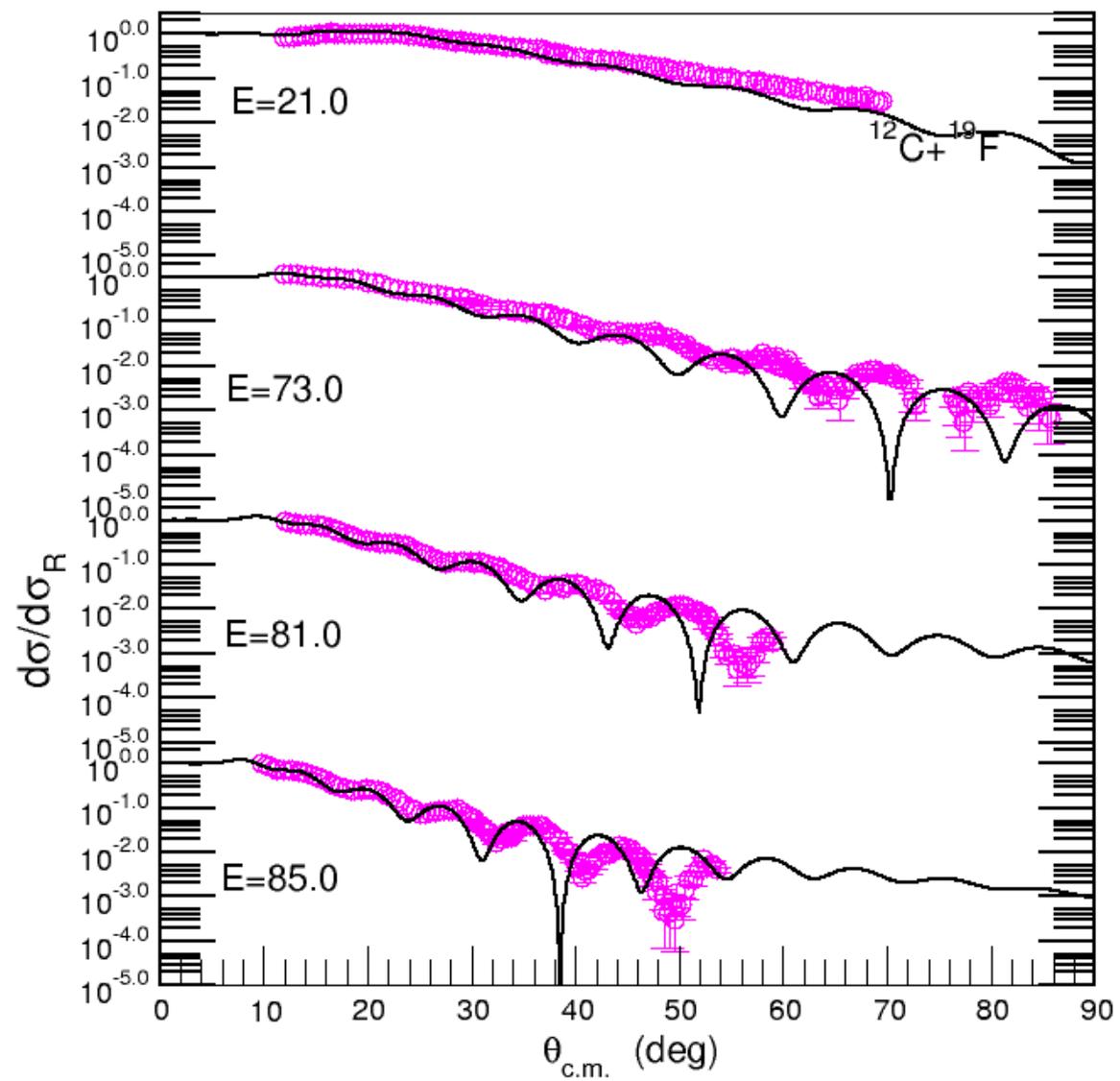


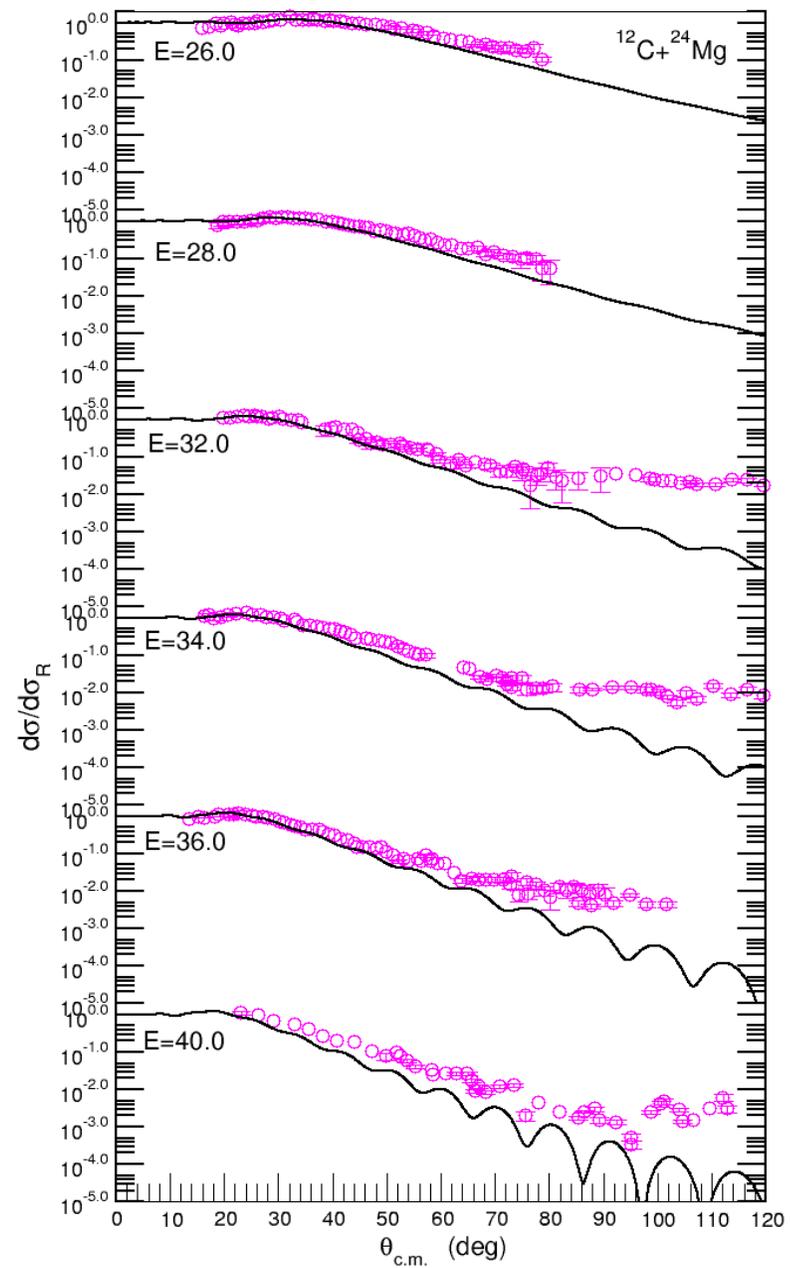
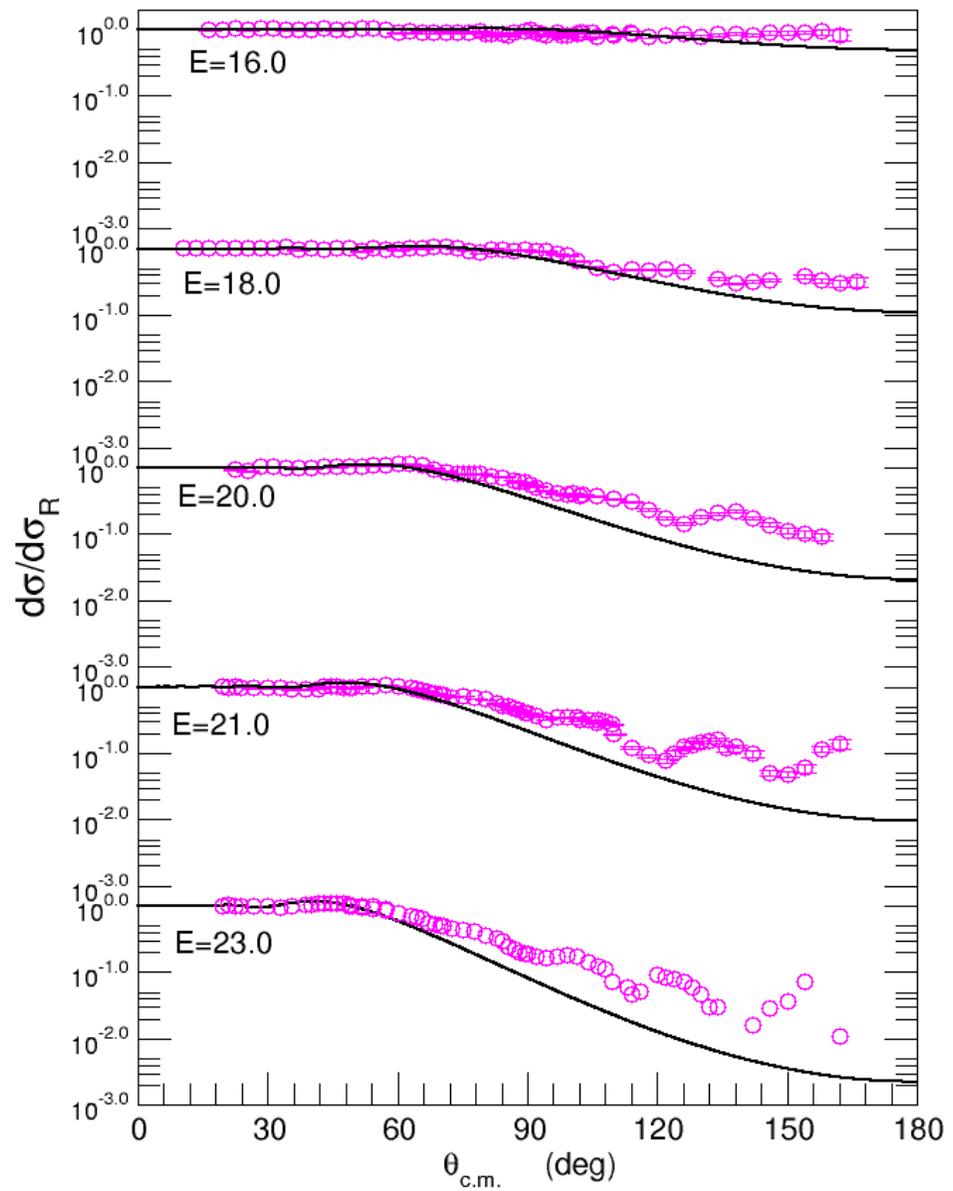
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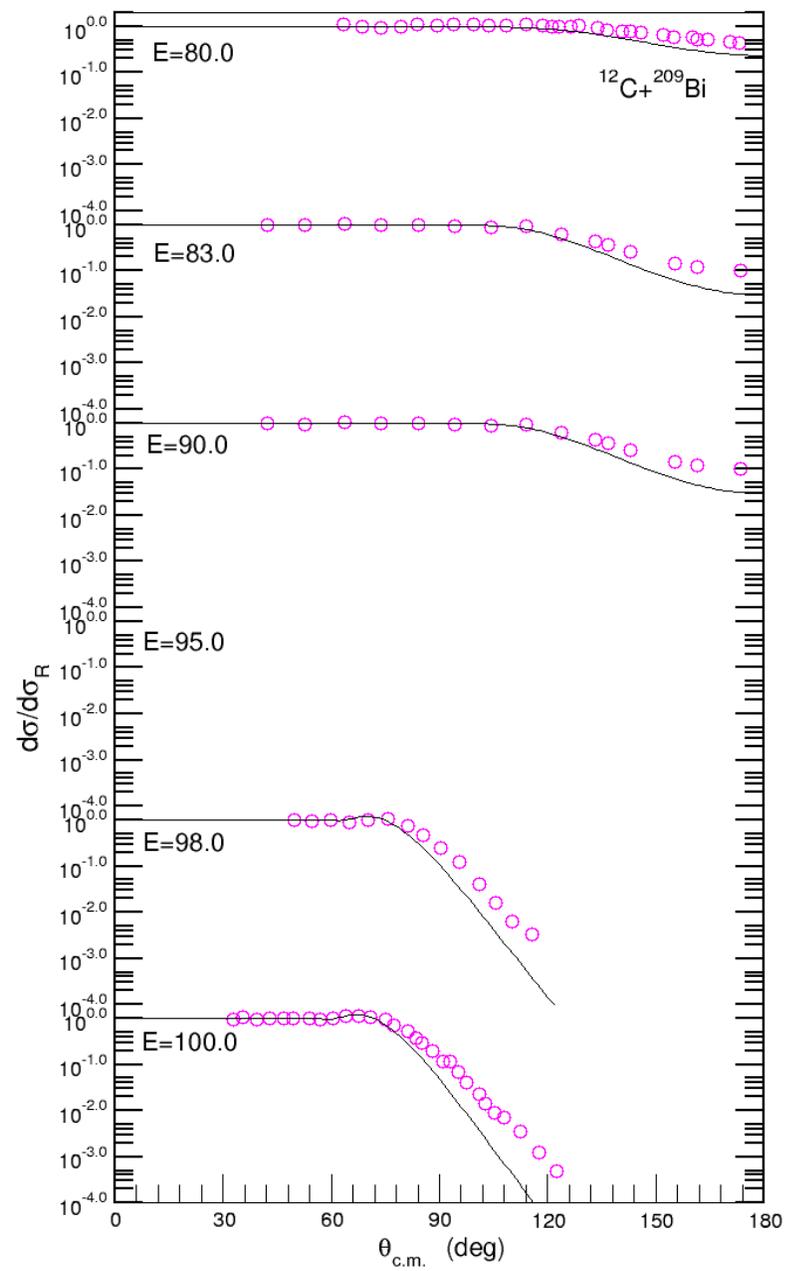




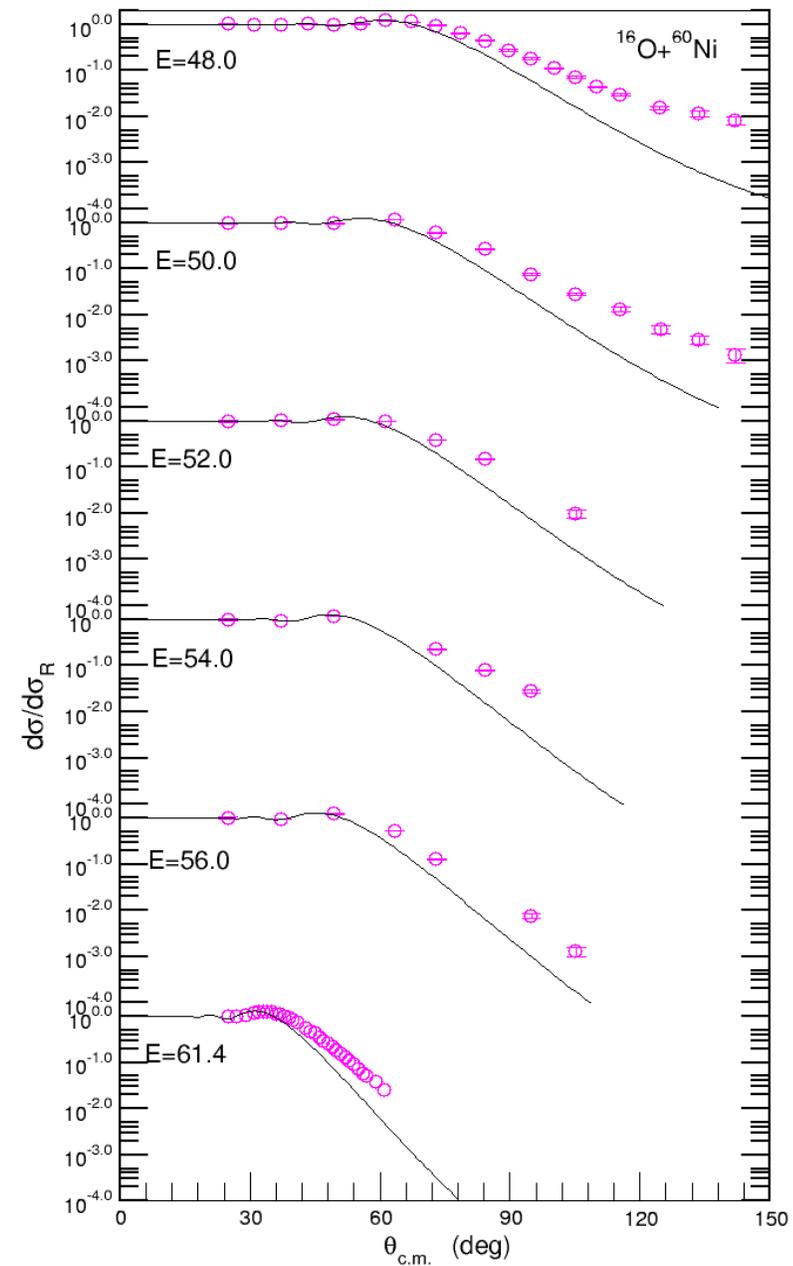
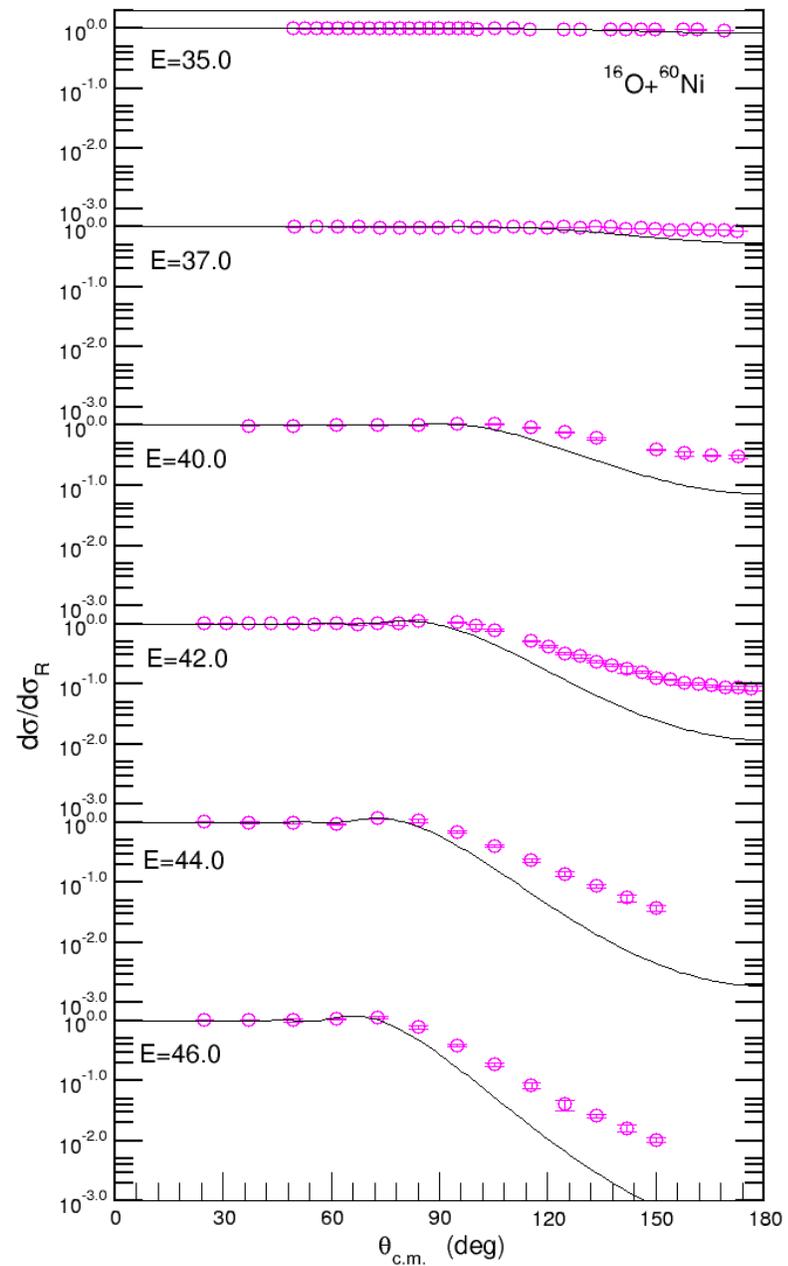
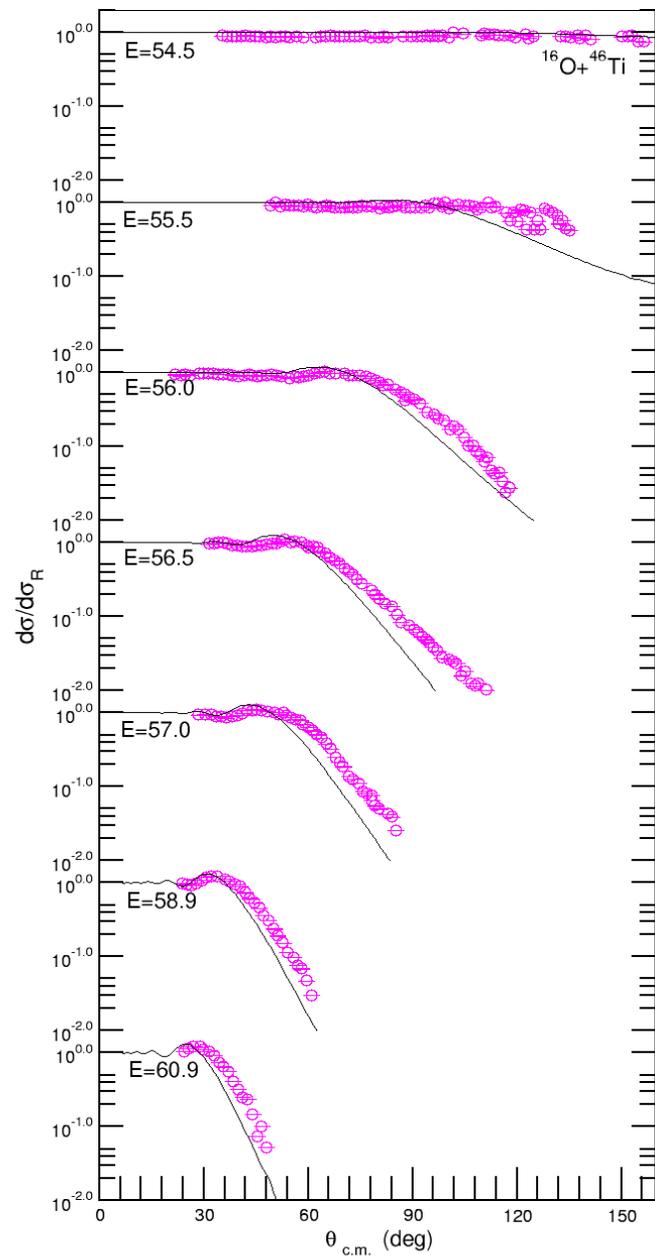
C12

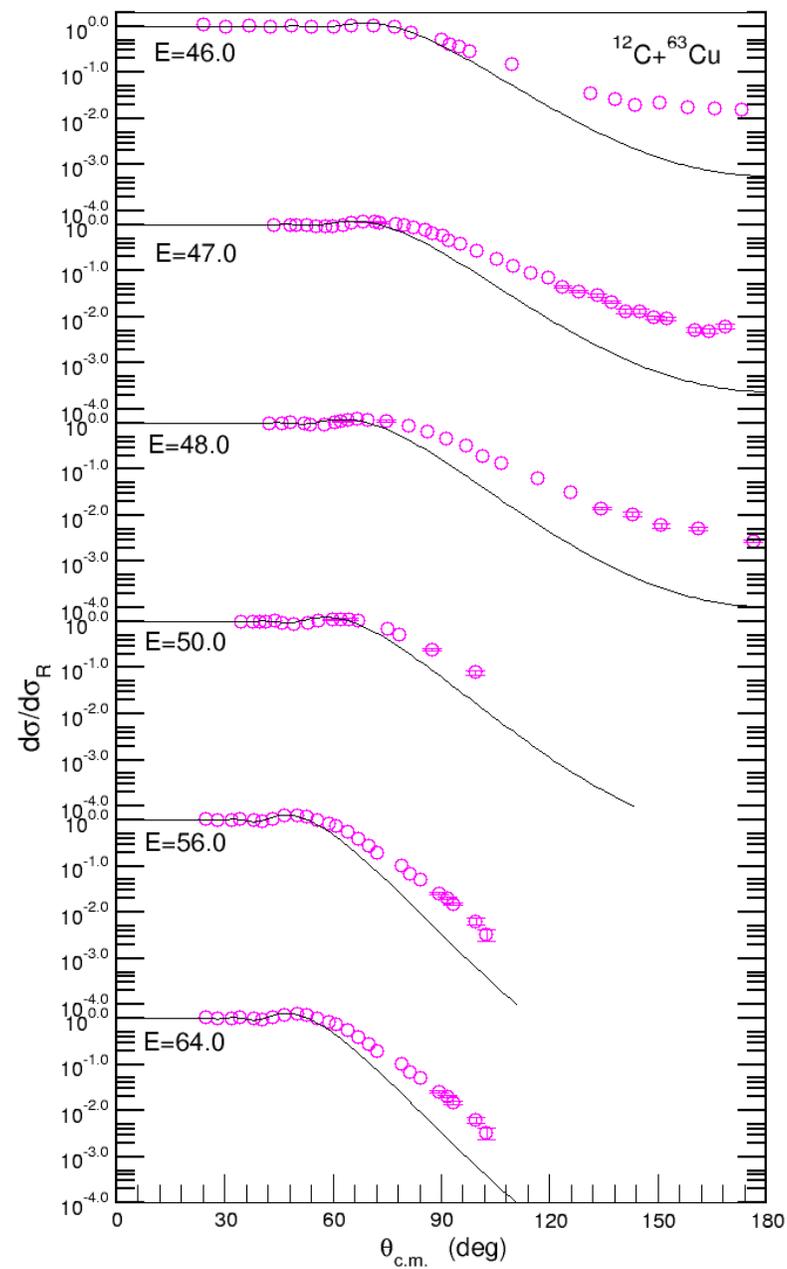
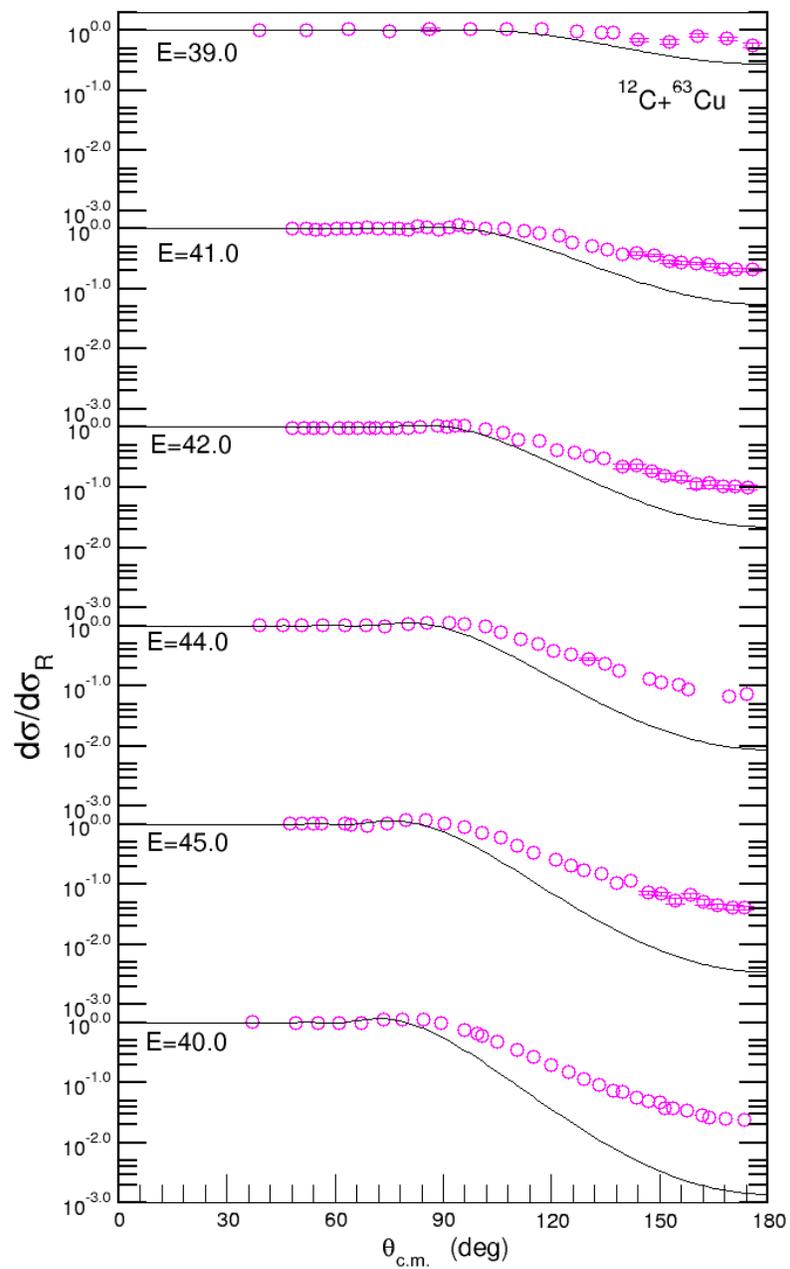


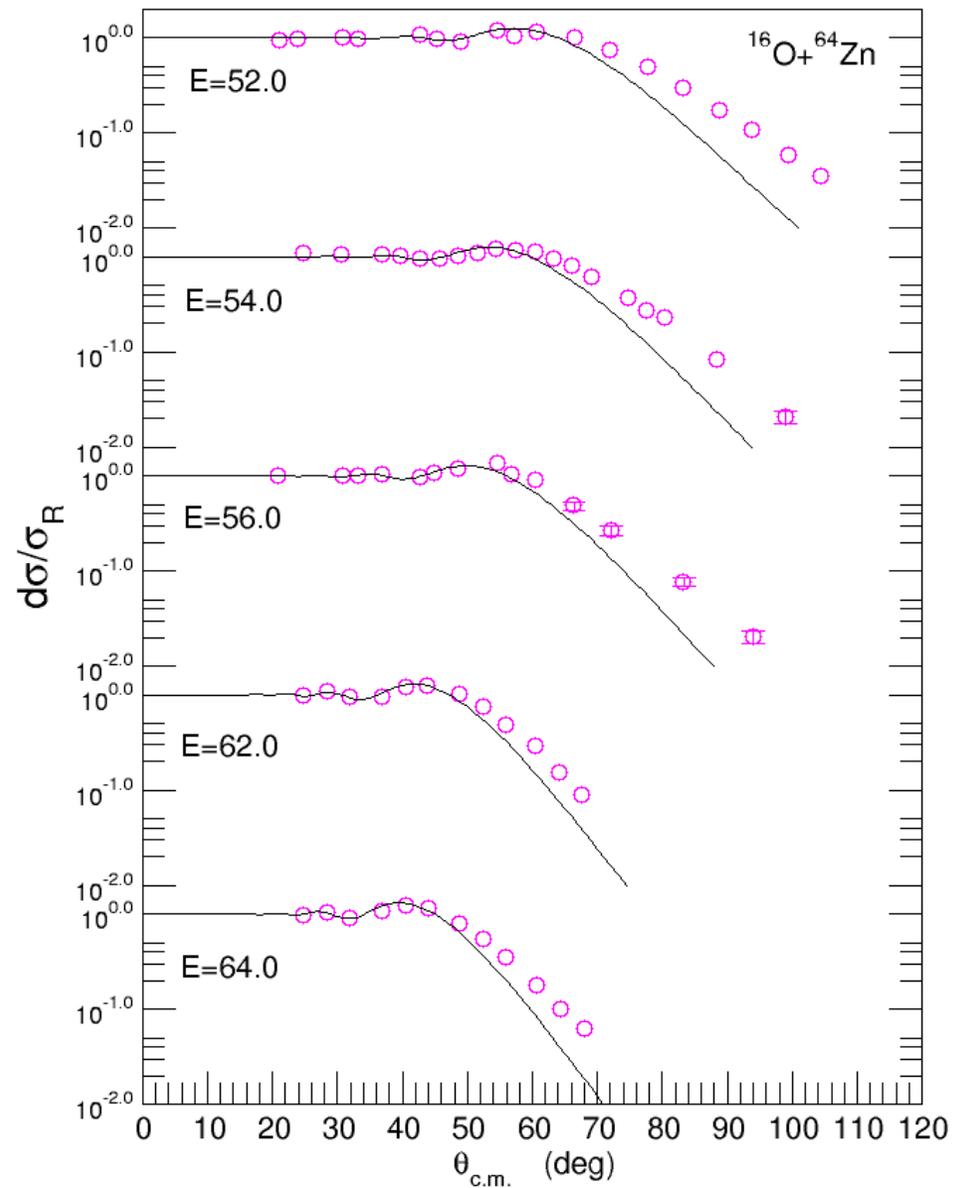
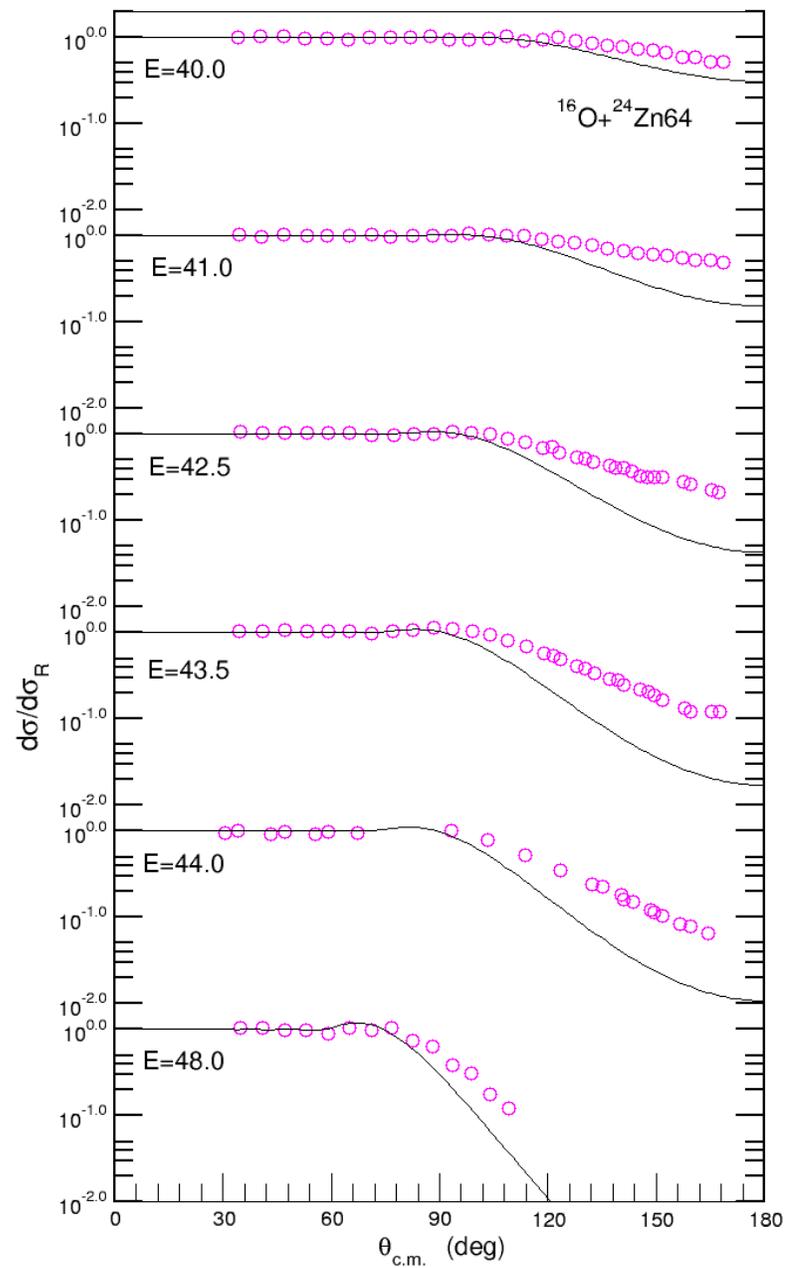


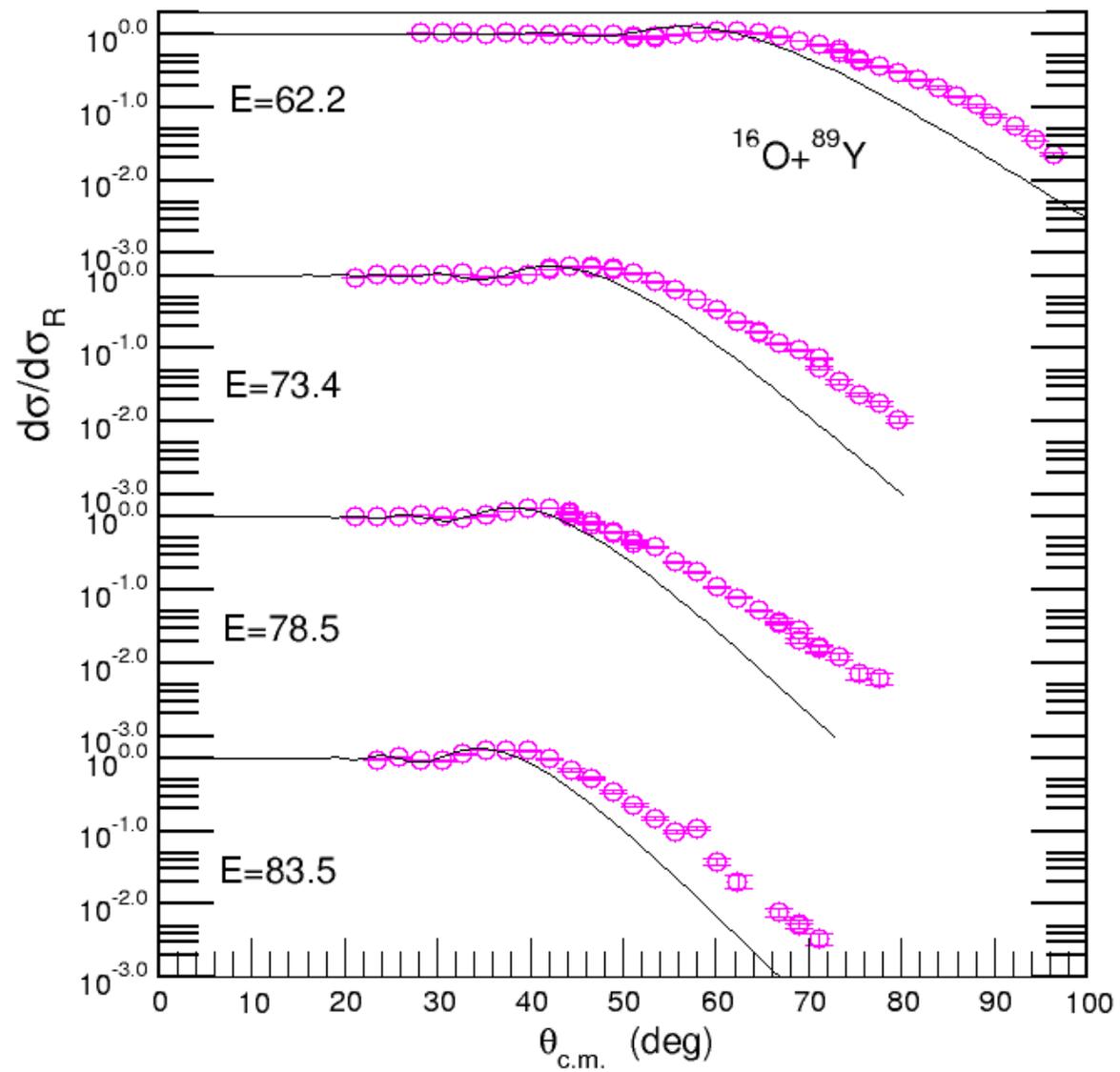


016

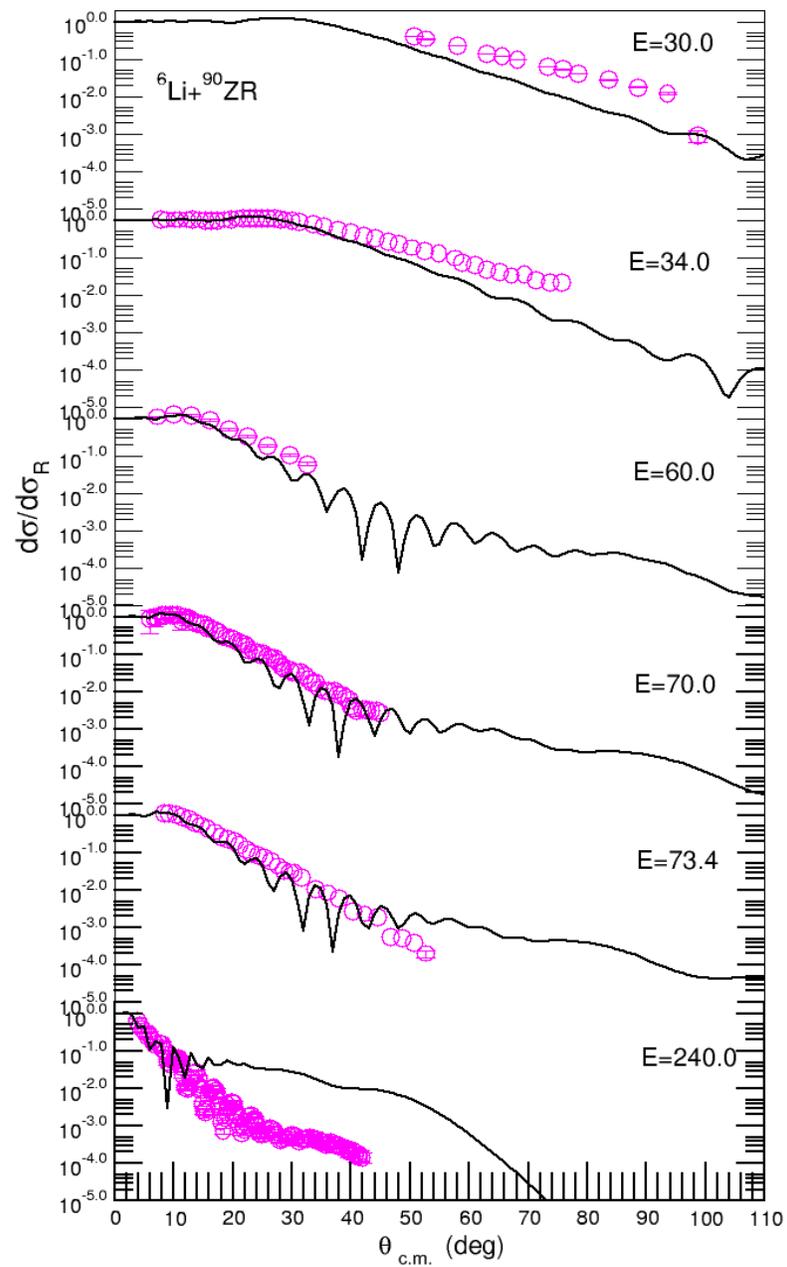
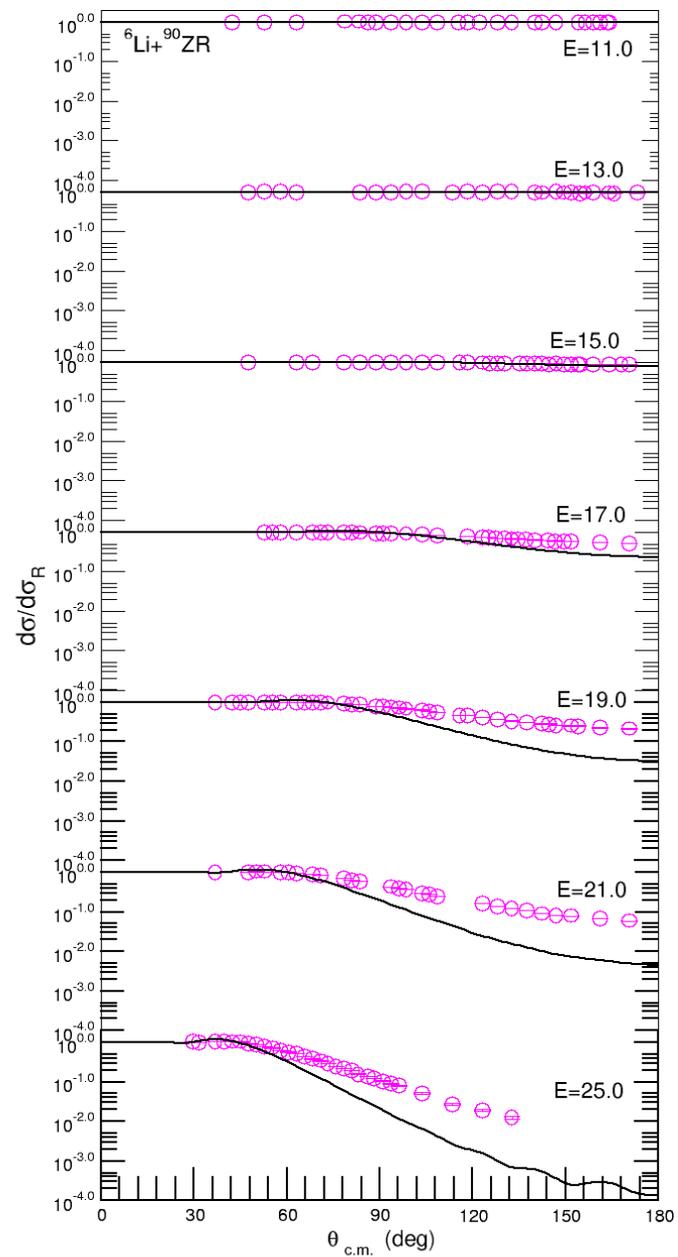








Li6



Li7

