

Program EVALPLOT  
(Version 2015-2)

by

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(Present Contact Information)

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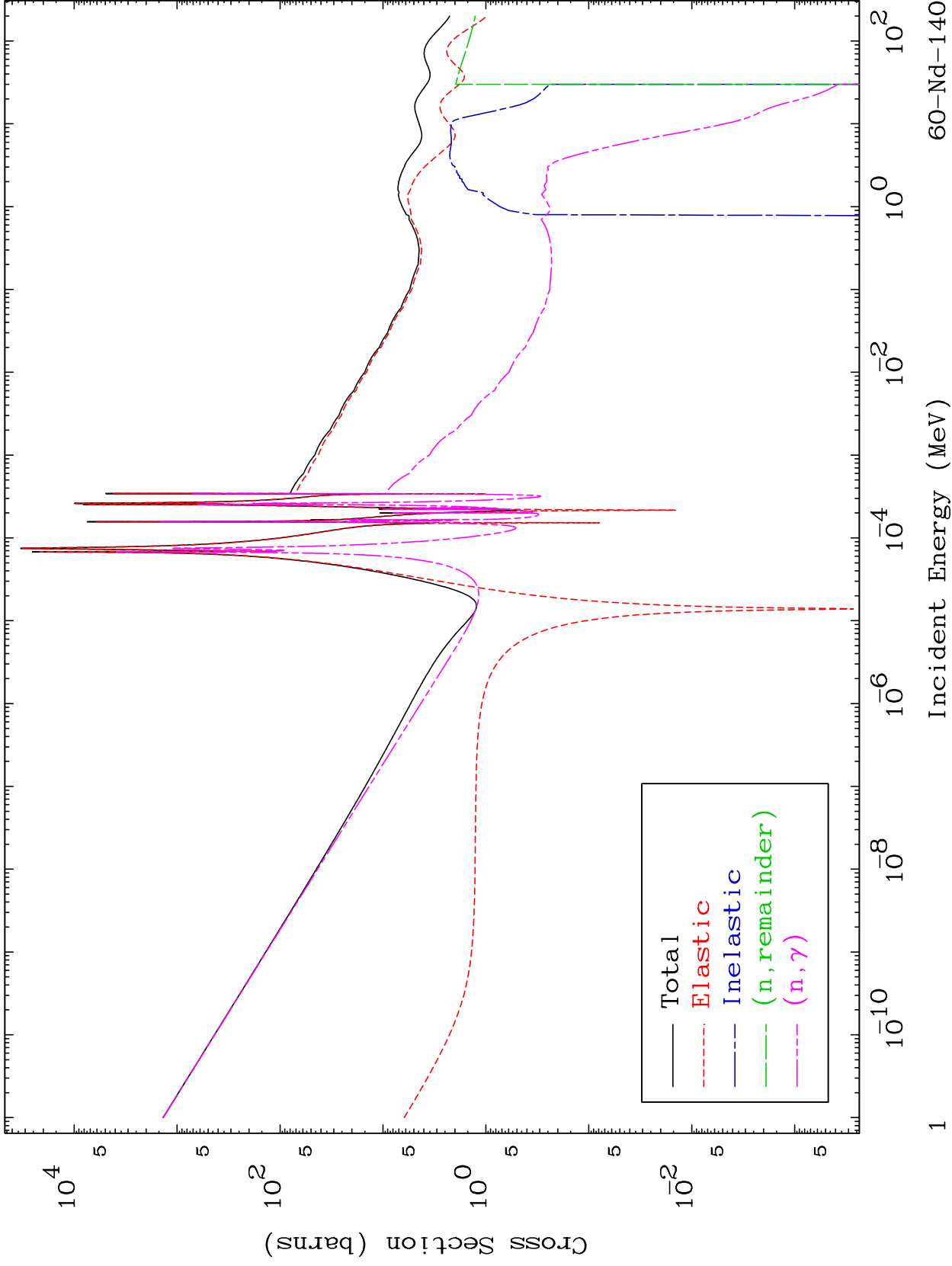
E.Mail:redcullen1@comcast.net  
Web:home.comcast.net/~redcullen1

Press Mouse Button to Start

MAT 6019

Major  
293 Kelvin Cross Sections

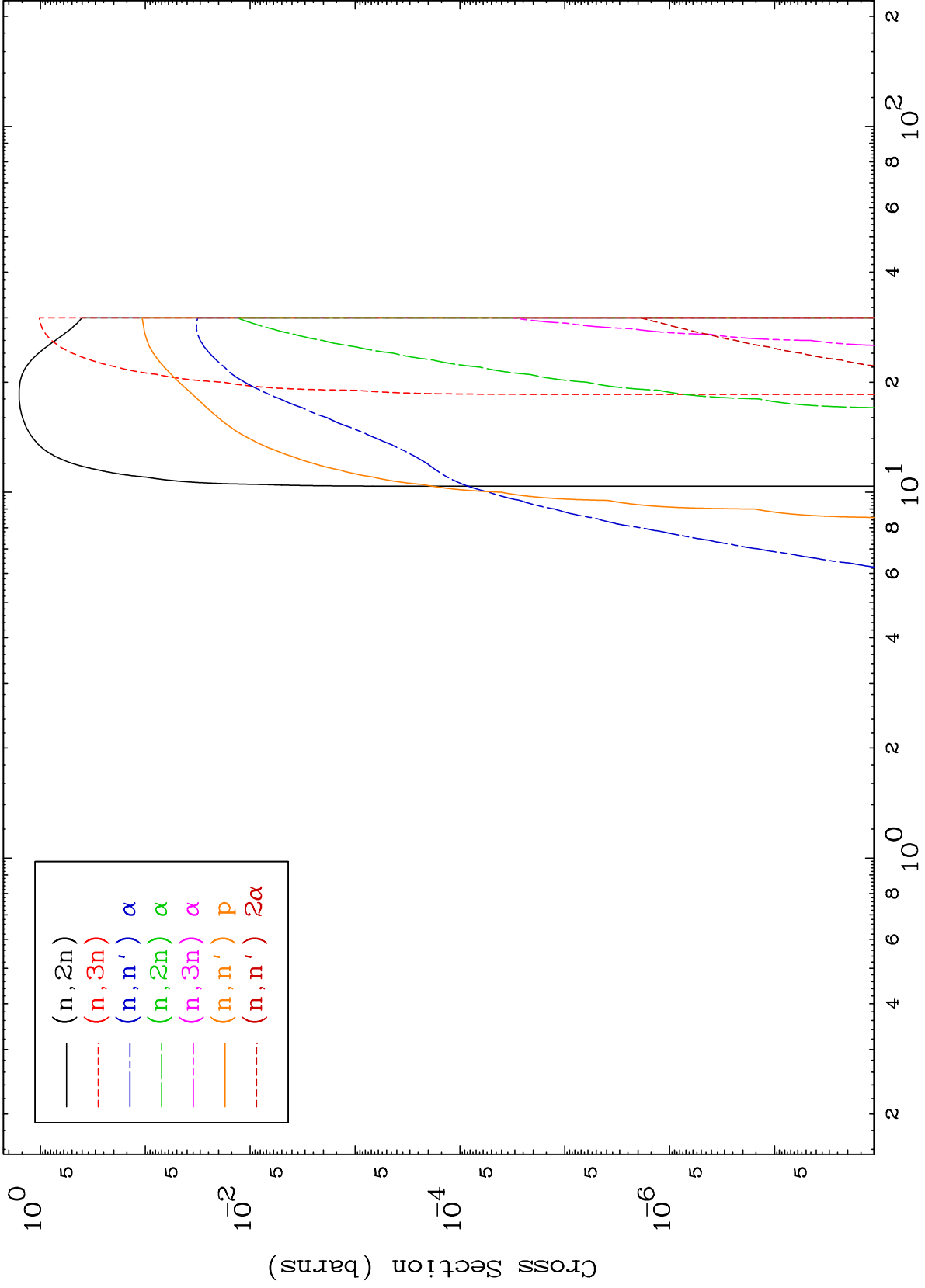
60-Nd-140



MAT 6019

Neutron Production  
293 Kelvin Cross Sections

60-Nd-140

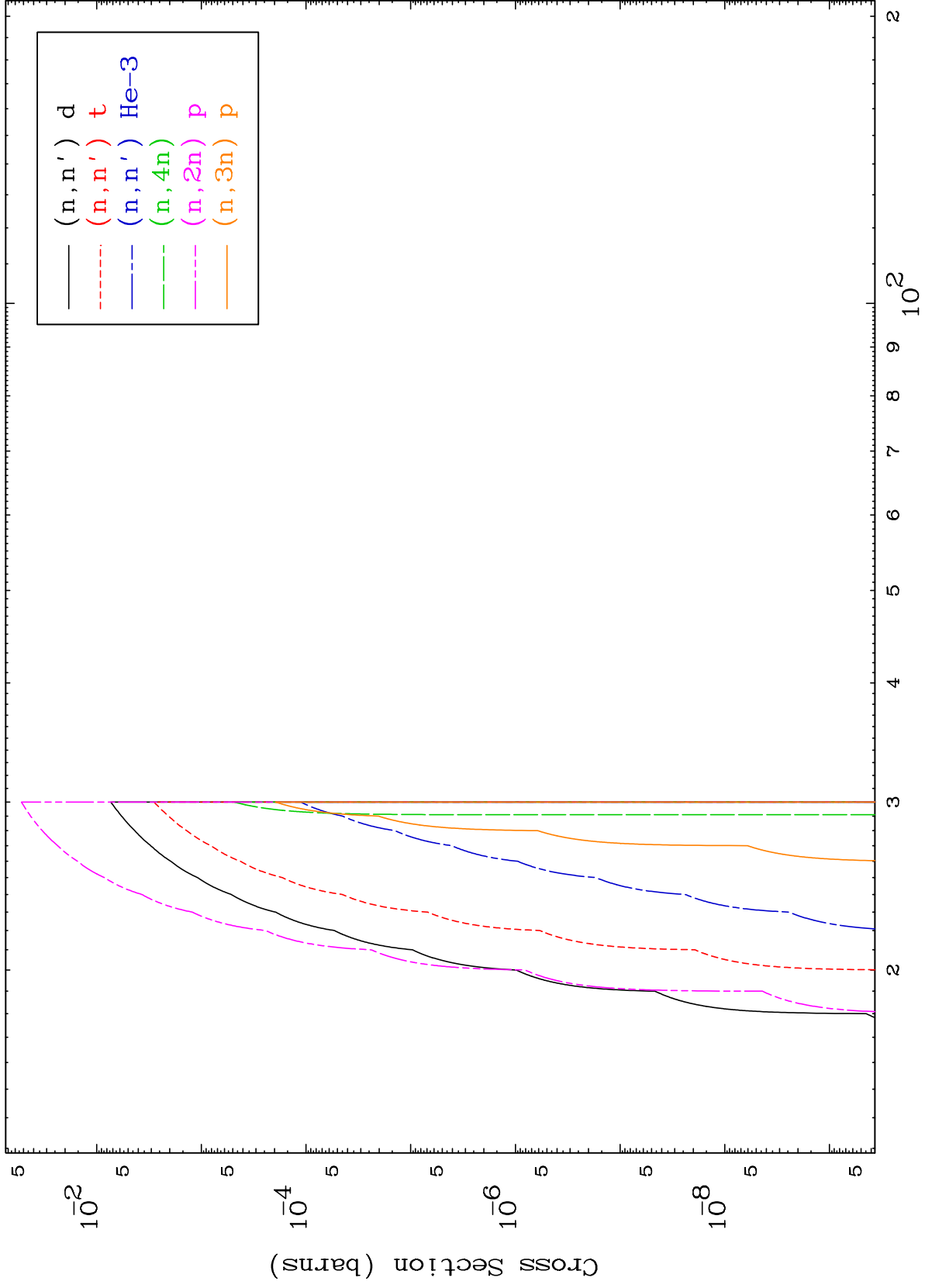


Incident Energy (MeV)

60-Nd-140

2

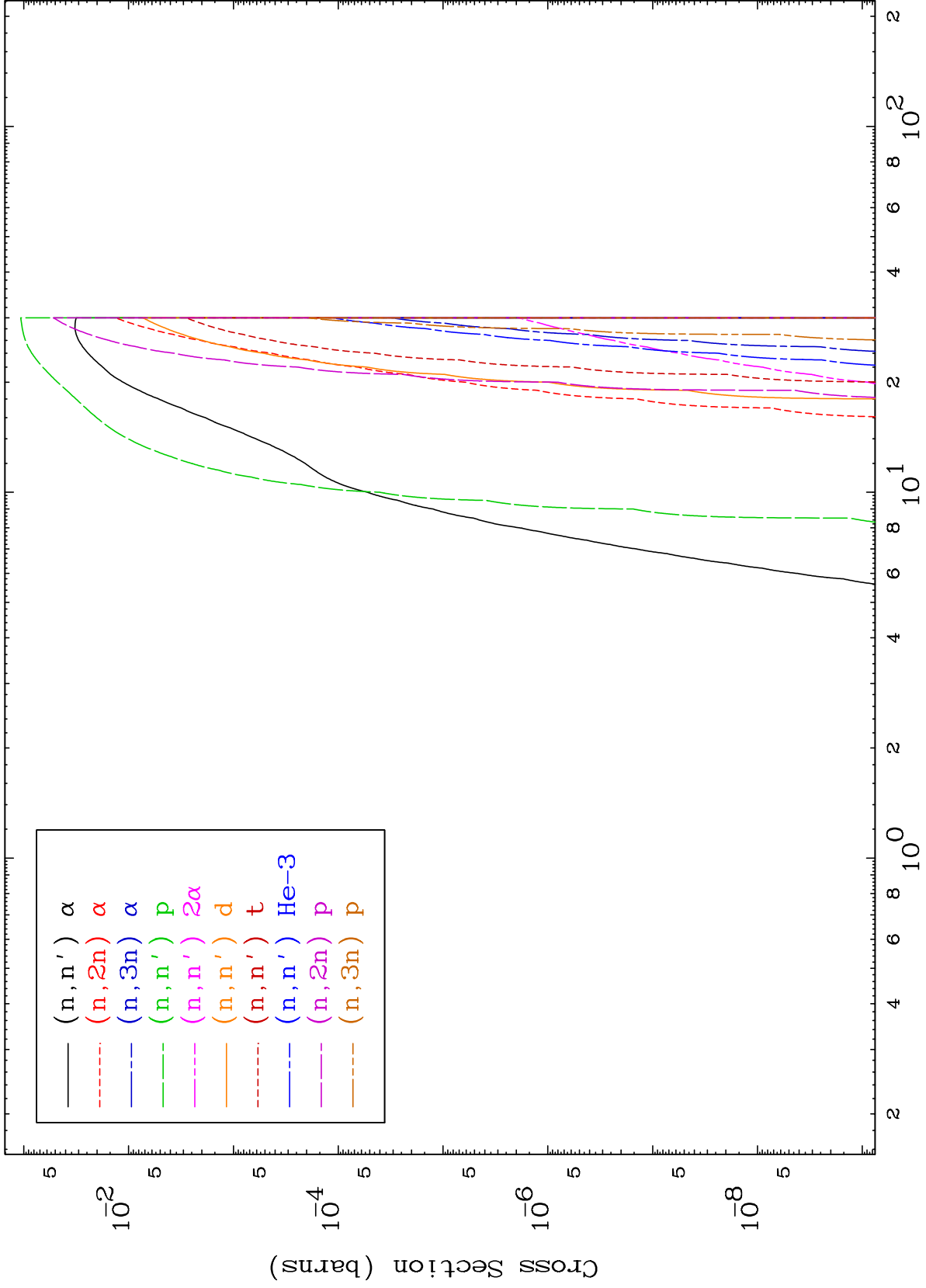
Neutron Production  
293 Kelvin Cross Sections



MAT 6019

Charged Particle  
293 Kelvin Cross Sections

60-Nd-140



4

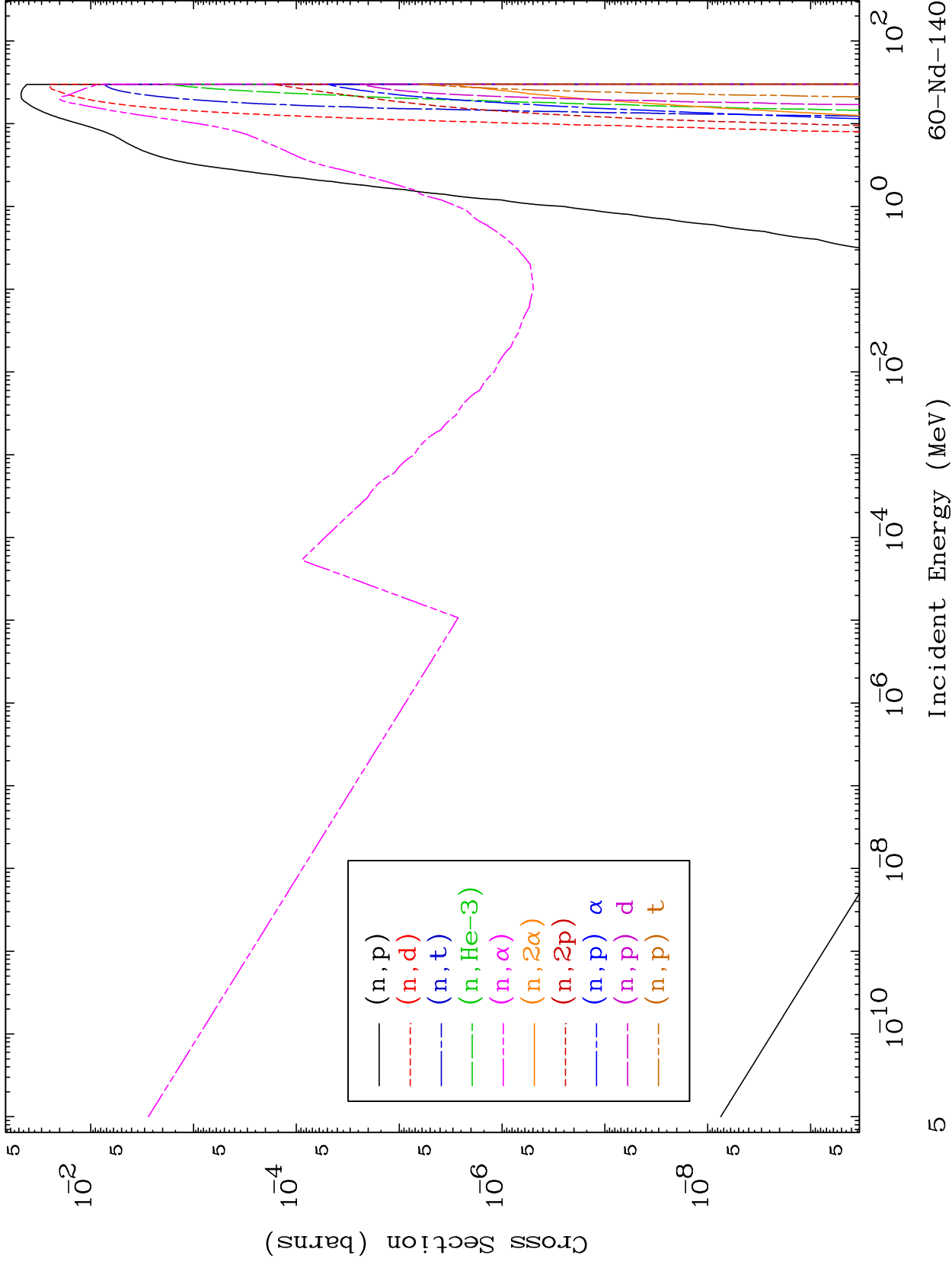
Incident Energy (MeV)

60-Nd-140

MAT 6019

Charged Particle  
293 Kelvin Cross Sections

60-Nd-140

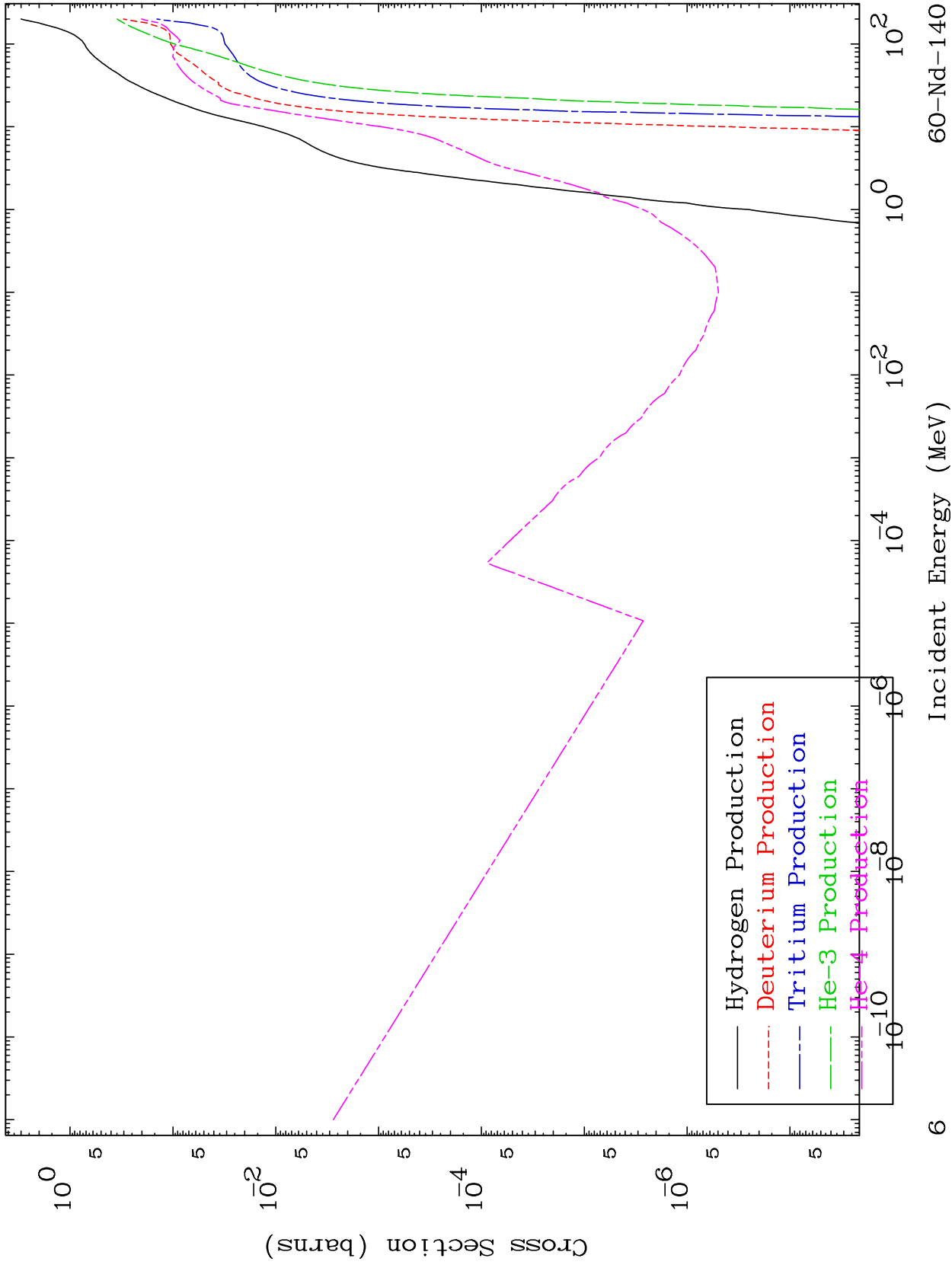


5

MAT 6019

Particle Production  
293 Kelvin Cross Sections

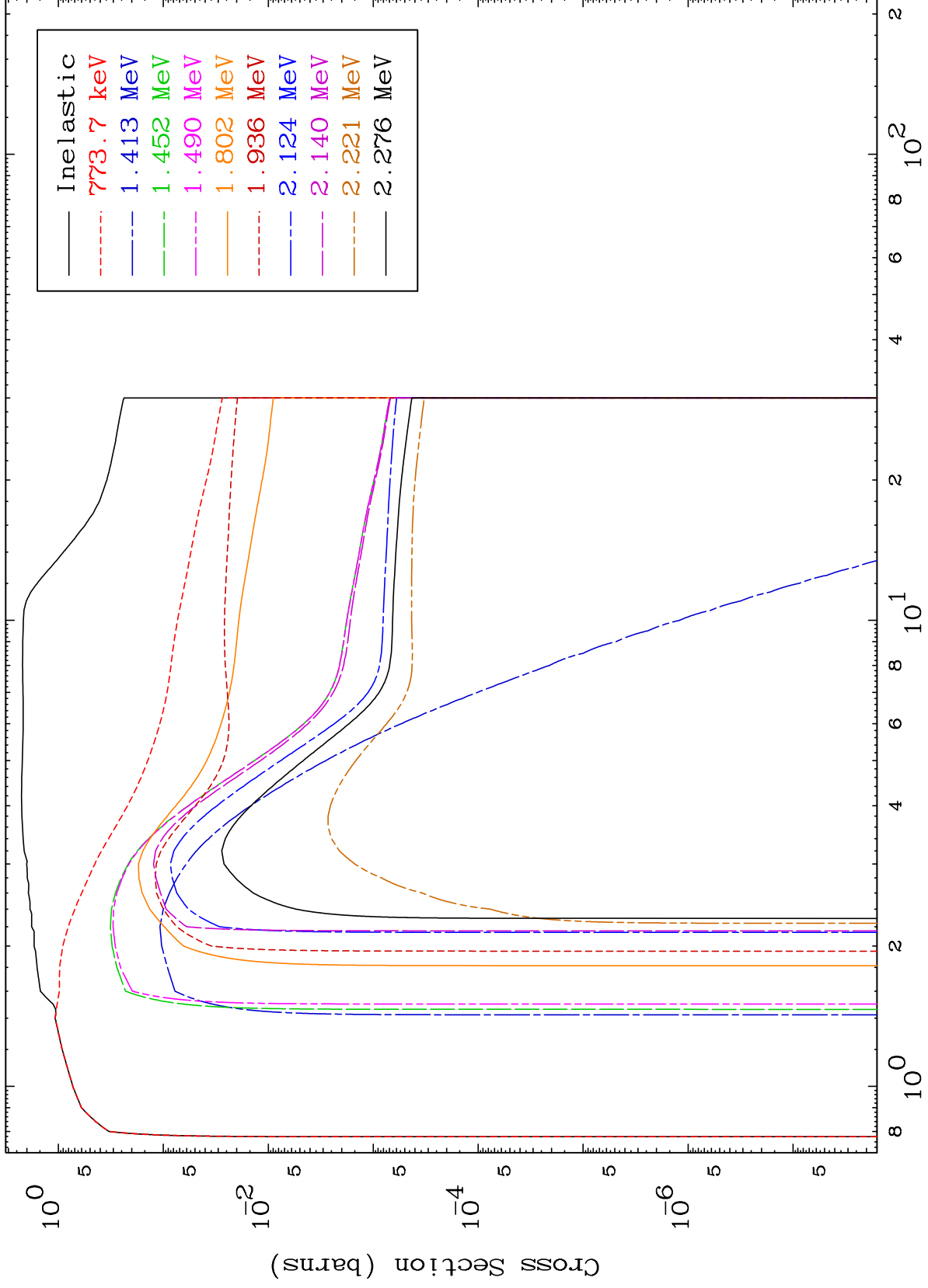
60-Nd-140



MAT 6019

(n,n') Level  
293 Kelvin Cross Sections

60-Nd-140



7

Incident Energy (MeV)

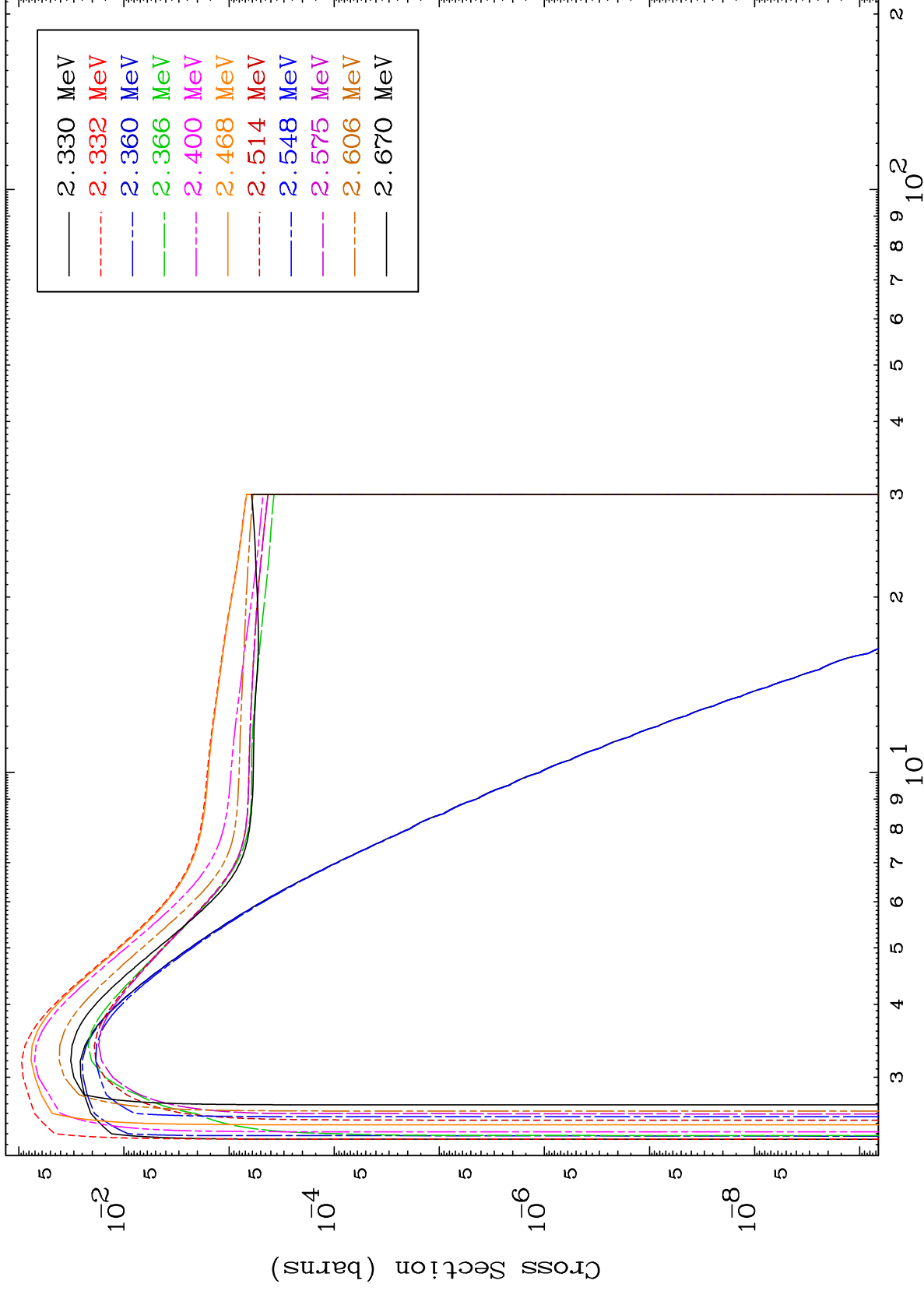
60-Nd-140



MAT 6019

(n,n') Level  
293 Kelvin Cross Sections

60-Nd-140



8

Incident Energy (MeV)

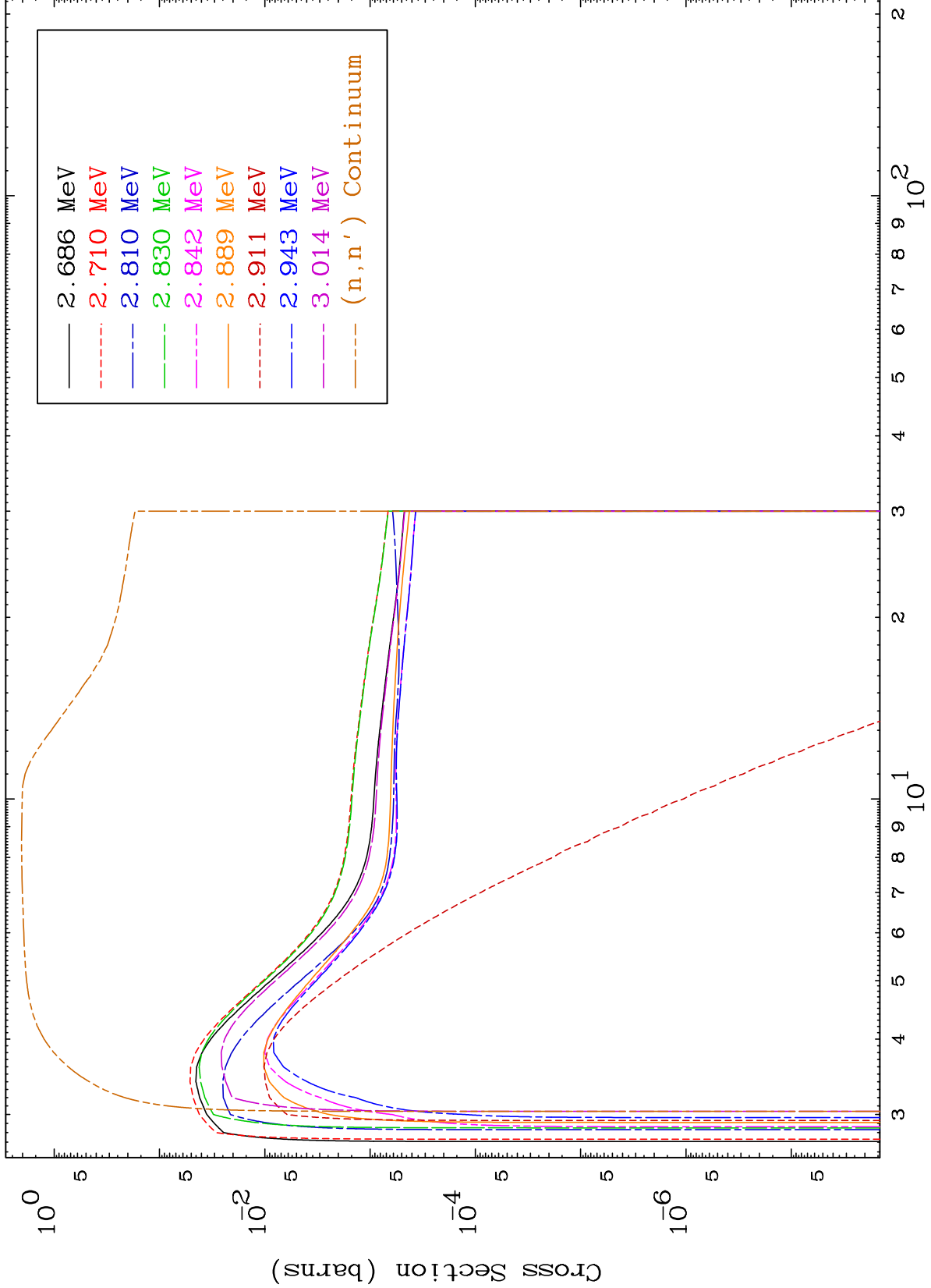
60-Nd-140

MAT 6019

(n,n') Level

60-Nd-140

293 Kelvin Cross Sections



9

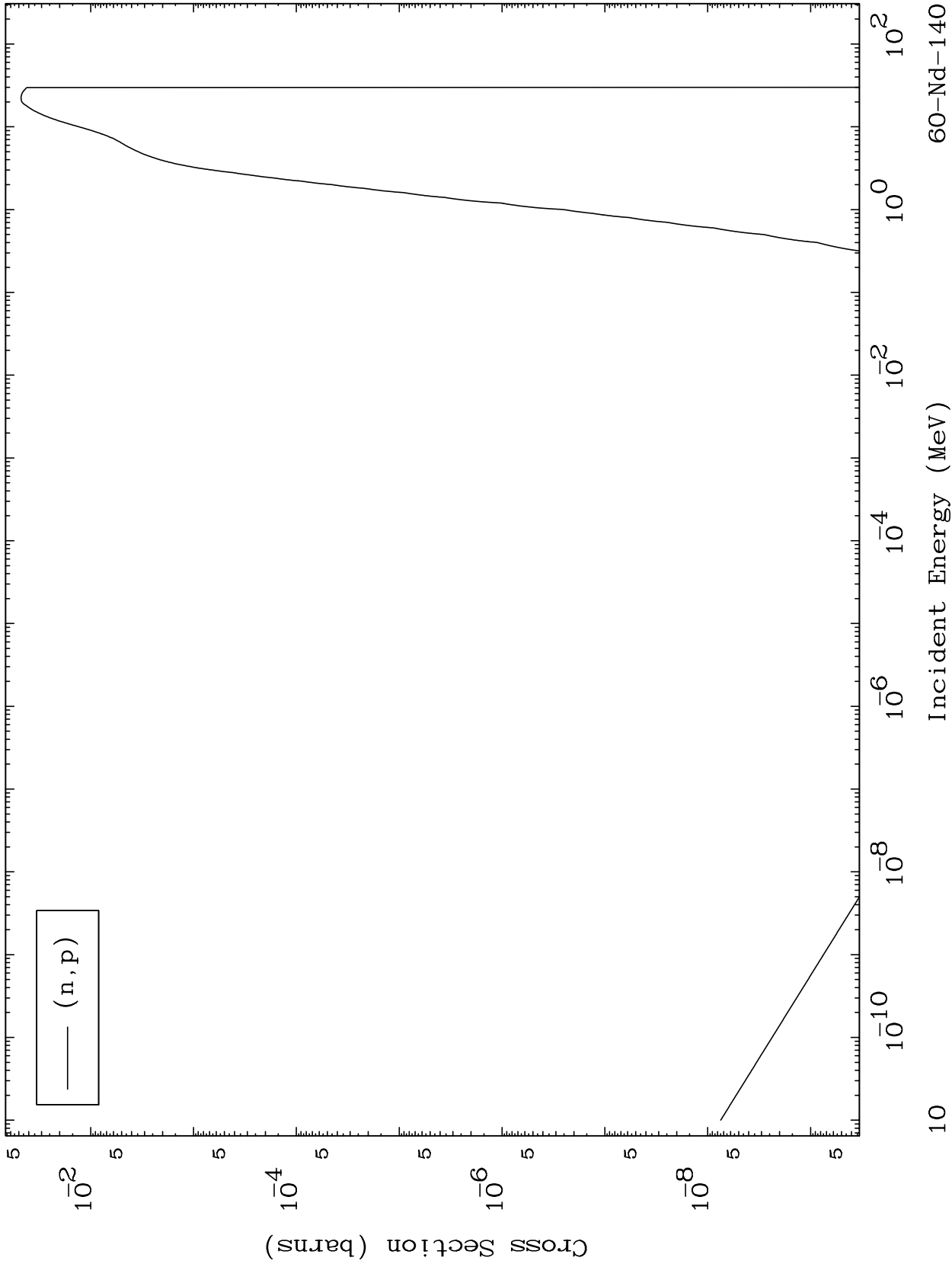
Incident Energy (MeV)

60-Nd-140

MAT 6019

(n,p) Levels  
293 Kelvin Cross Sections

60-Nd-140



10

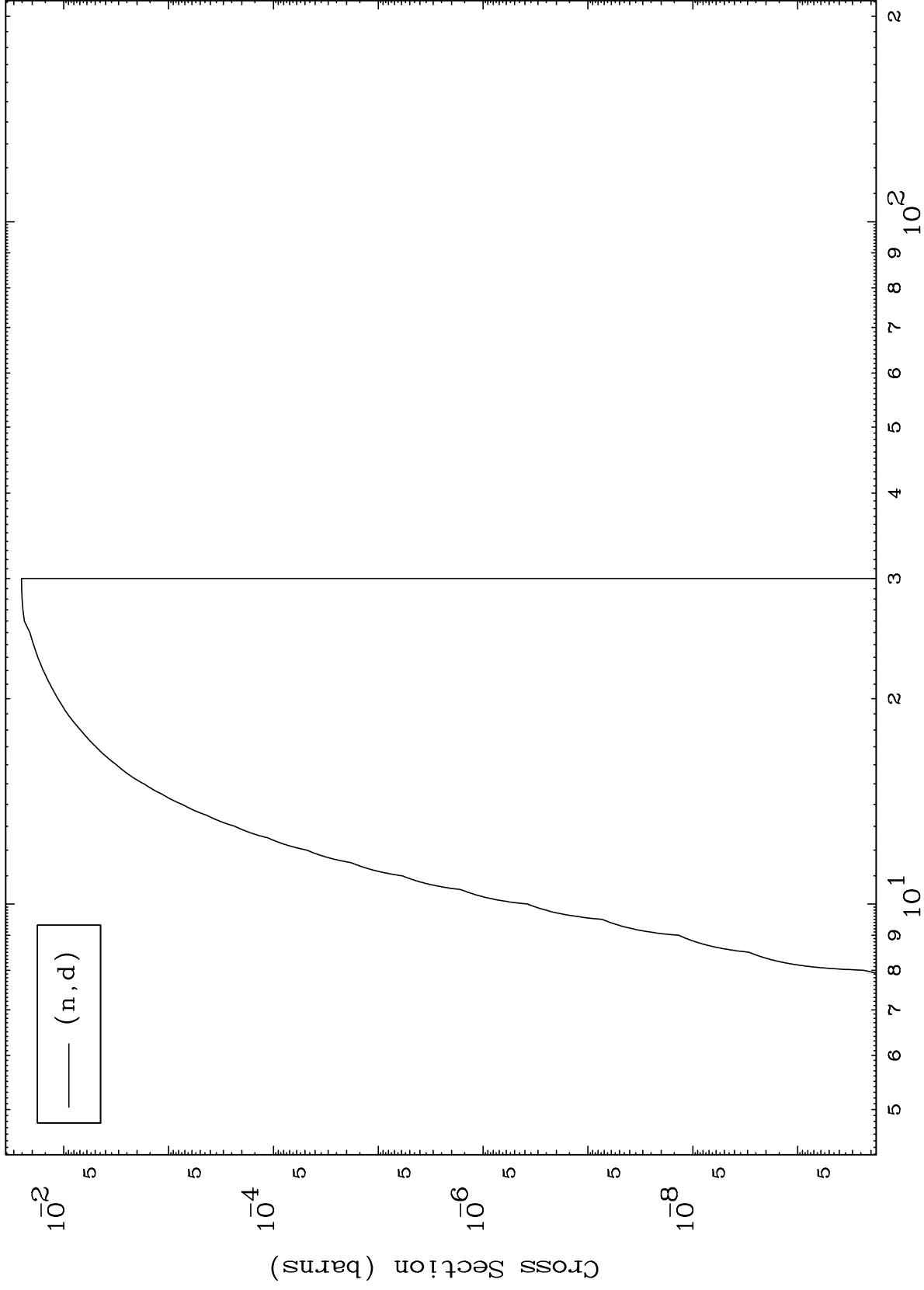
Incident Energy (MeV)

60-Nd-140

MAT 6019

(n,d) Levels  
293 Kelvin Cross Sections

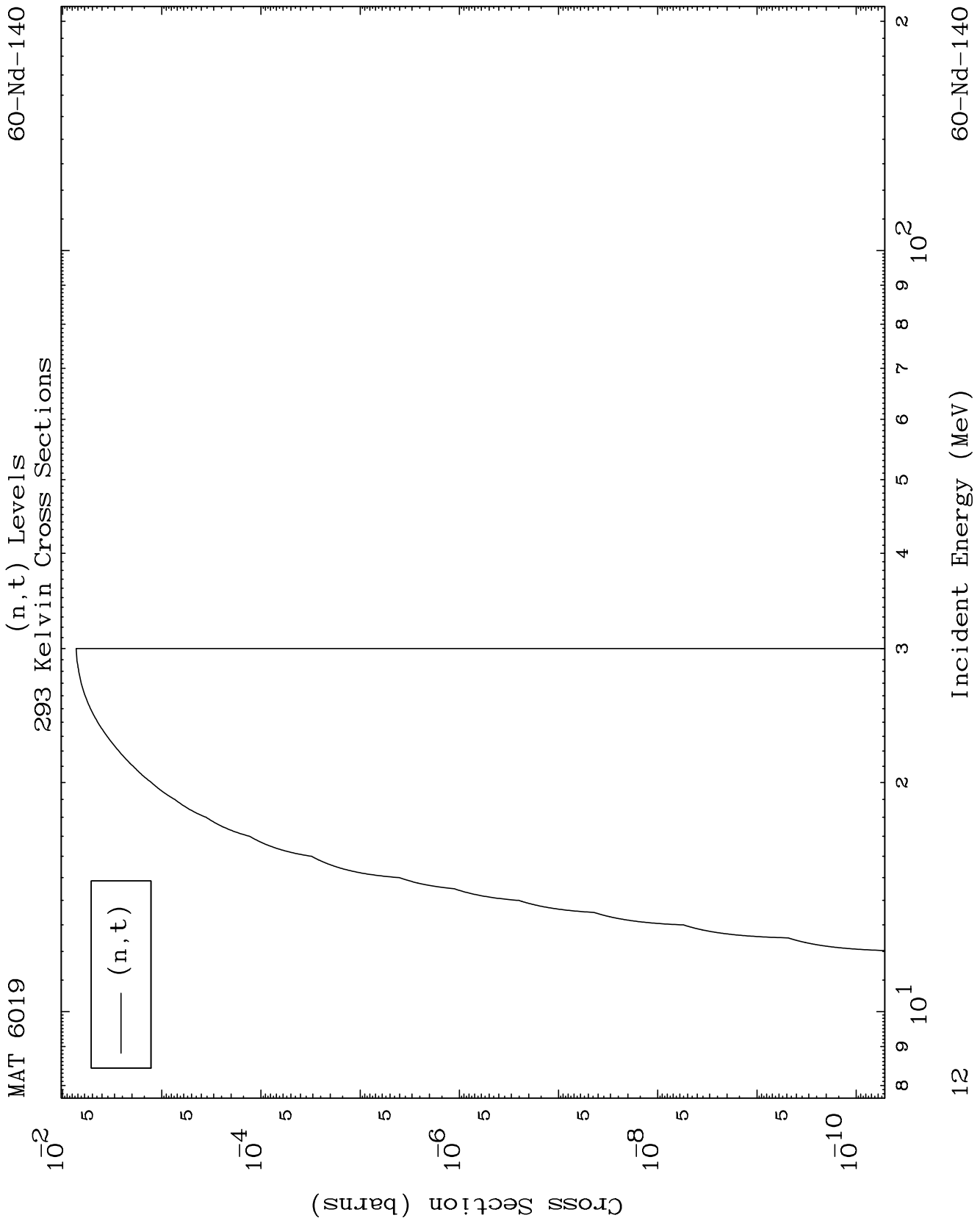
60-Nd-140



11

Incident Energy (MeV)

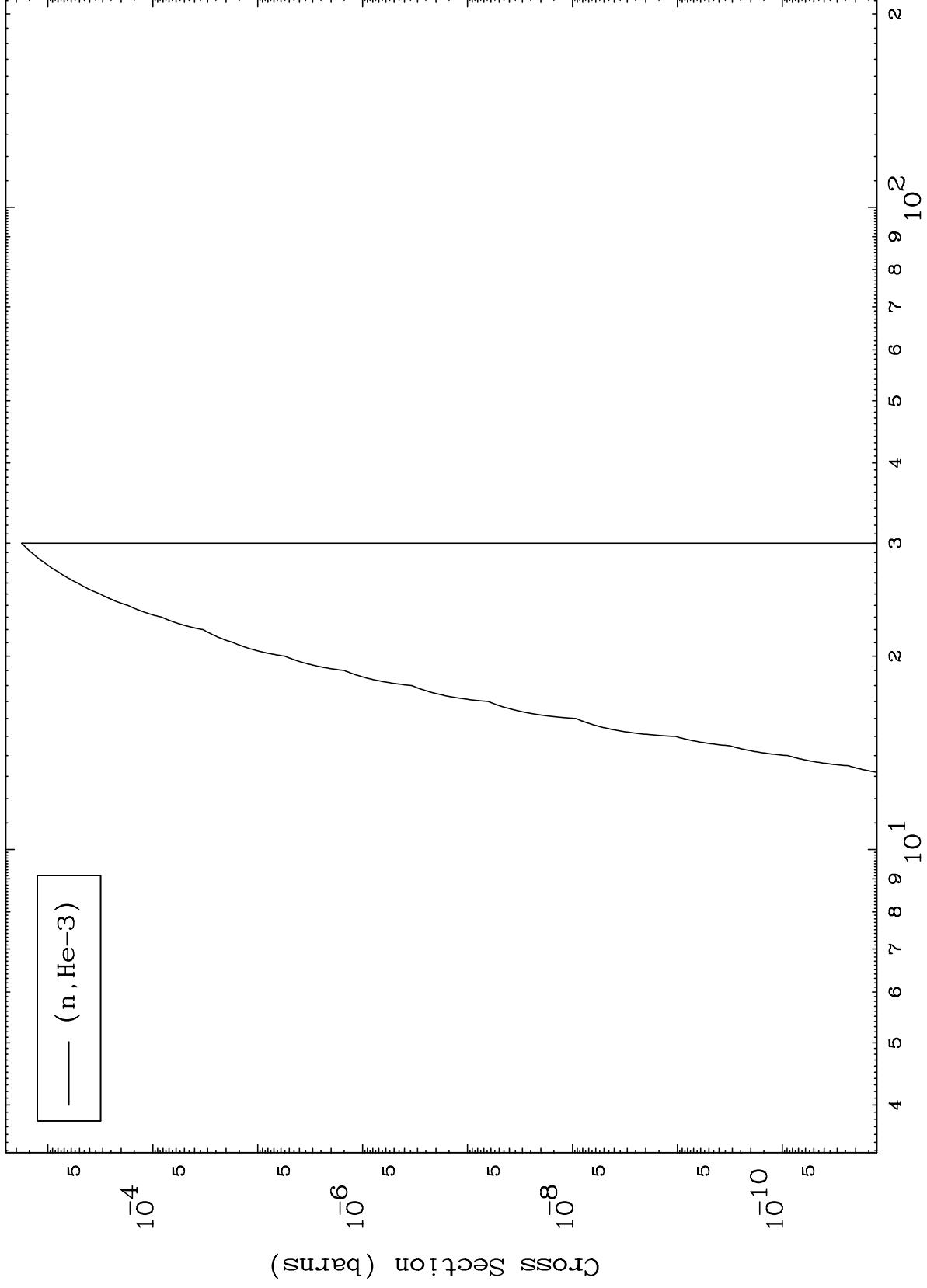
60-Nd-140



MAT 6019

(n,He3) Levels  
293 Kelvin Cross Sections

60-Nd-140



13

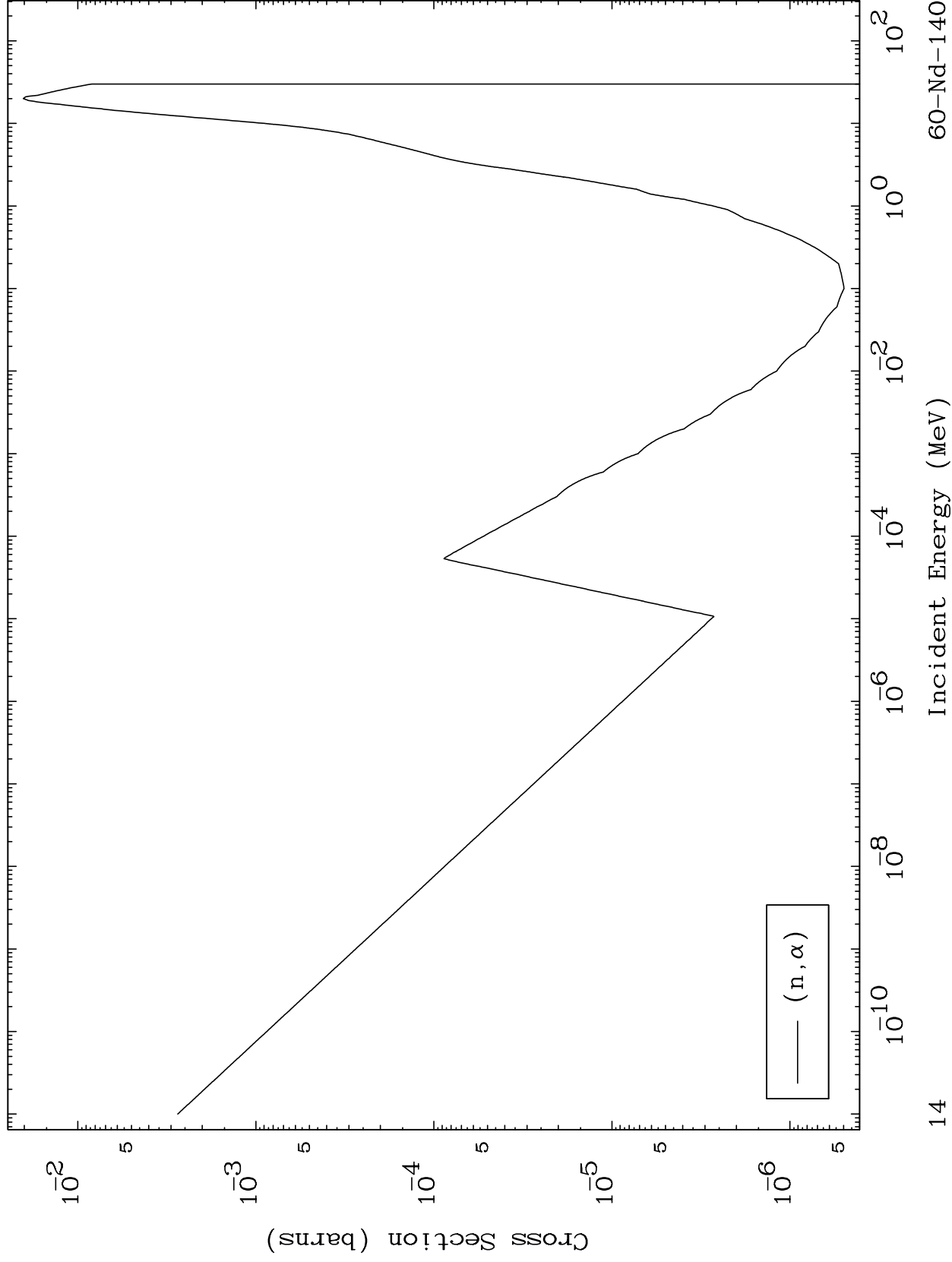
Incident Energy (MeV)

60-Nd-140

MAT 6019

(n,  $\alpha$ ) Levels  
293 Kelvin Cross Sections

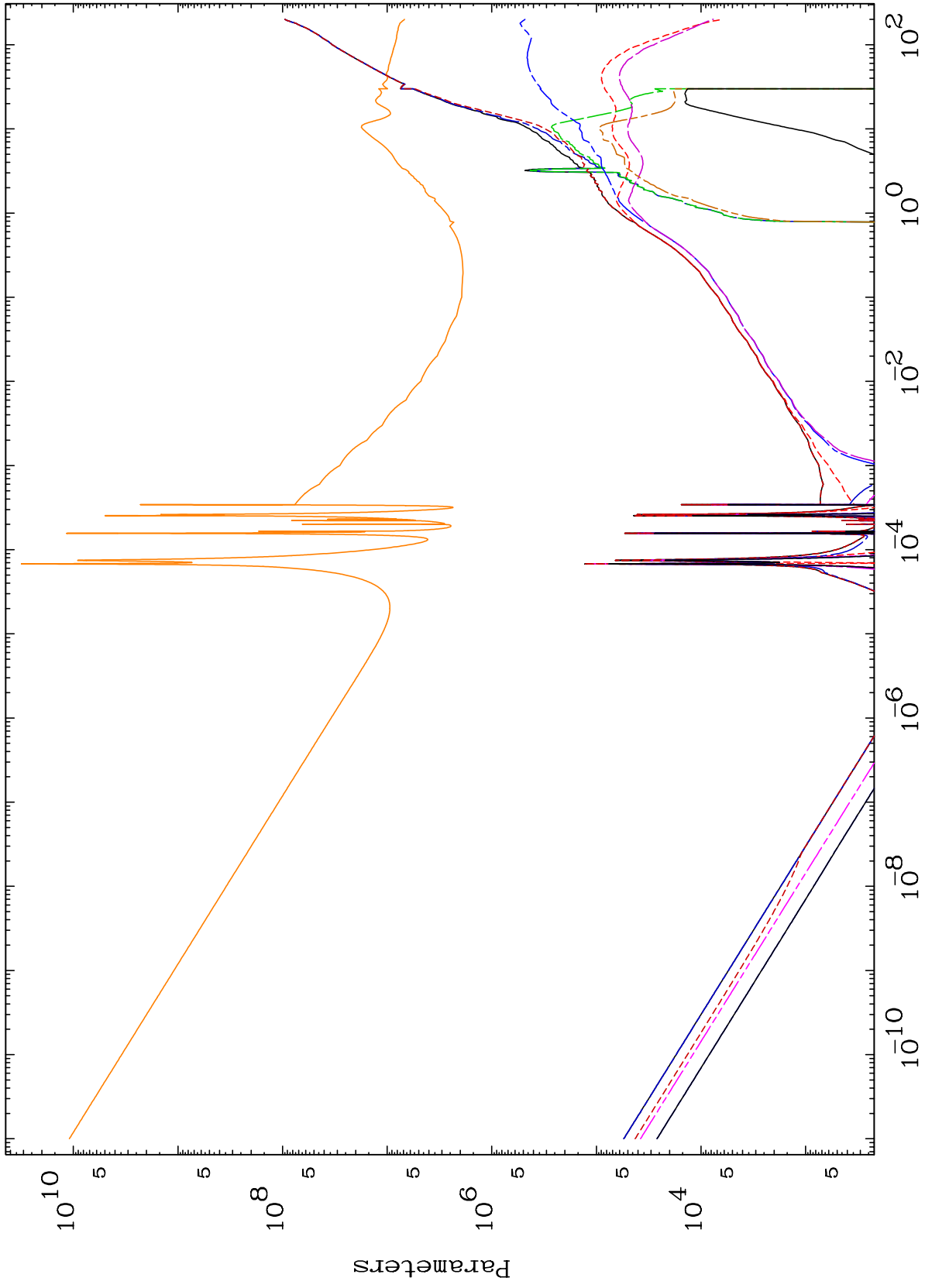
60-Nd-140



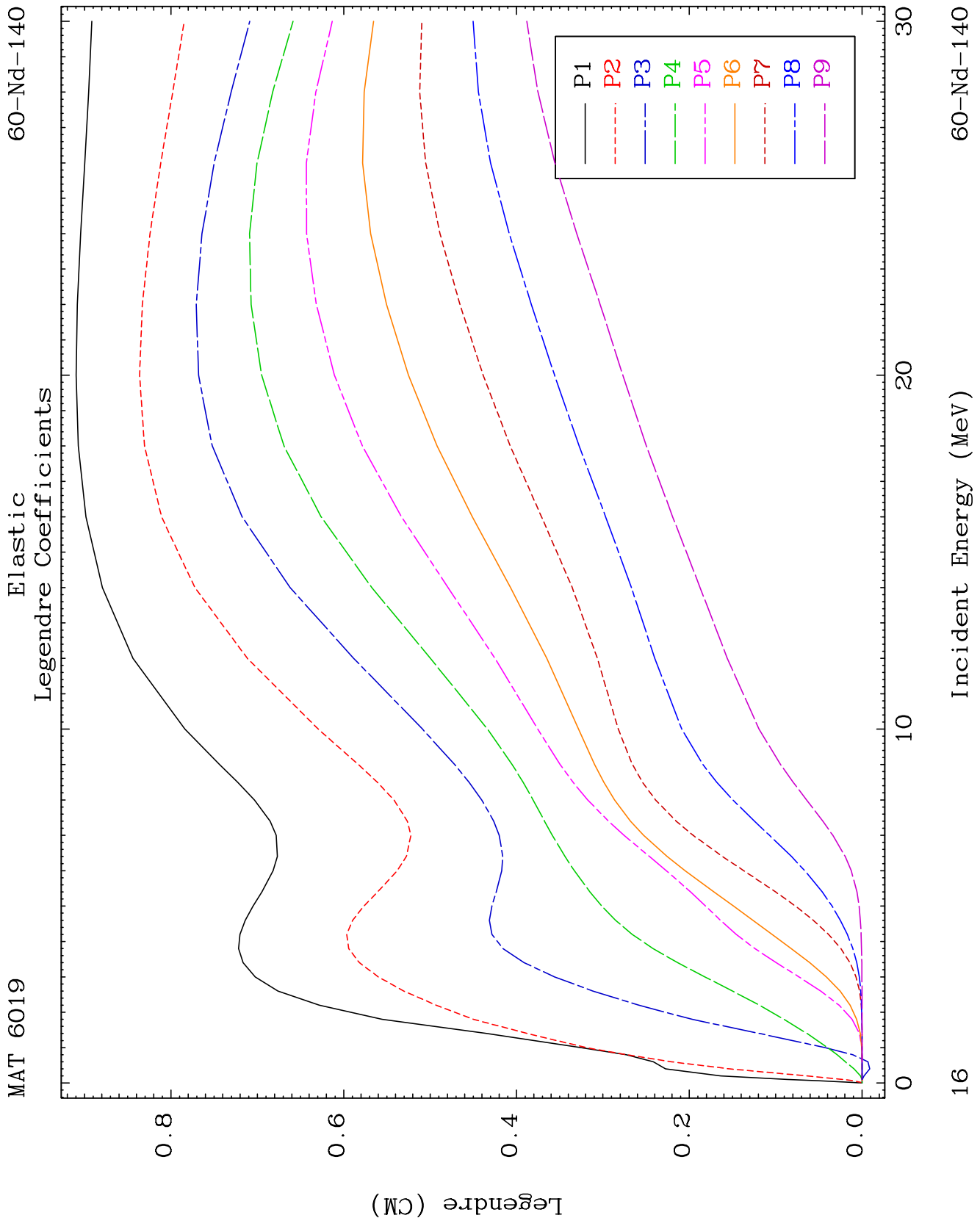
MAT 6019

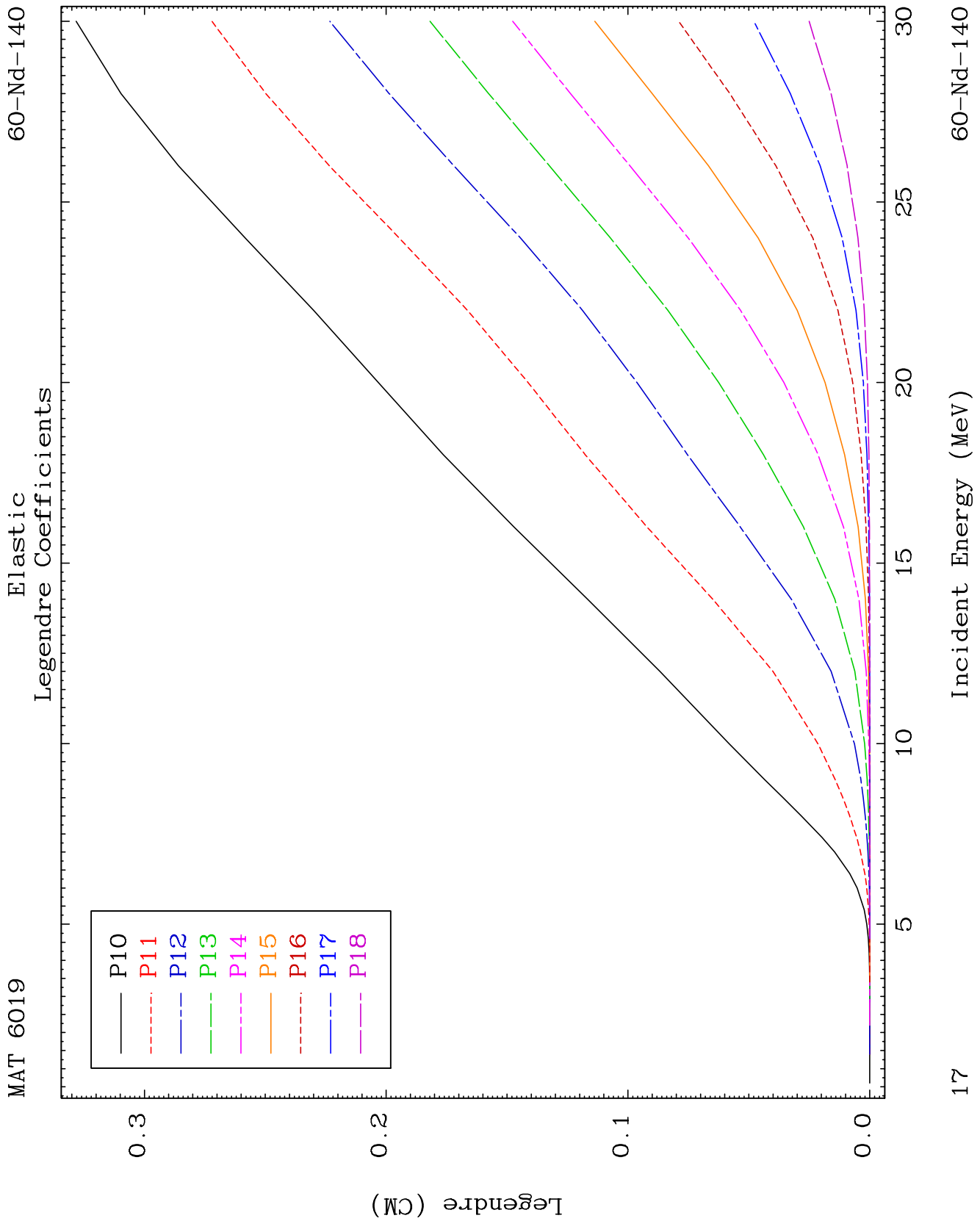
Energy Release  
Parameters

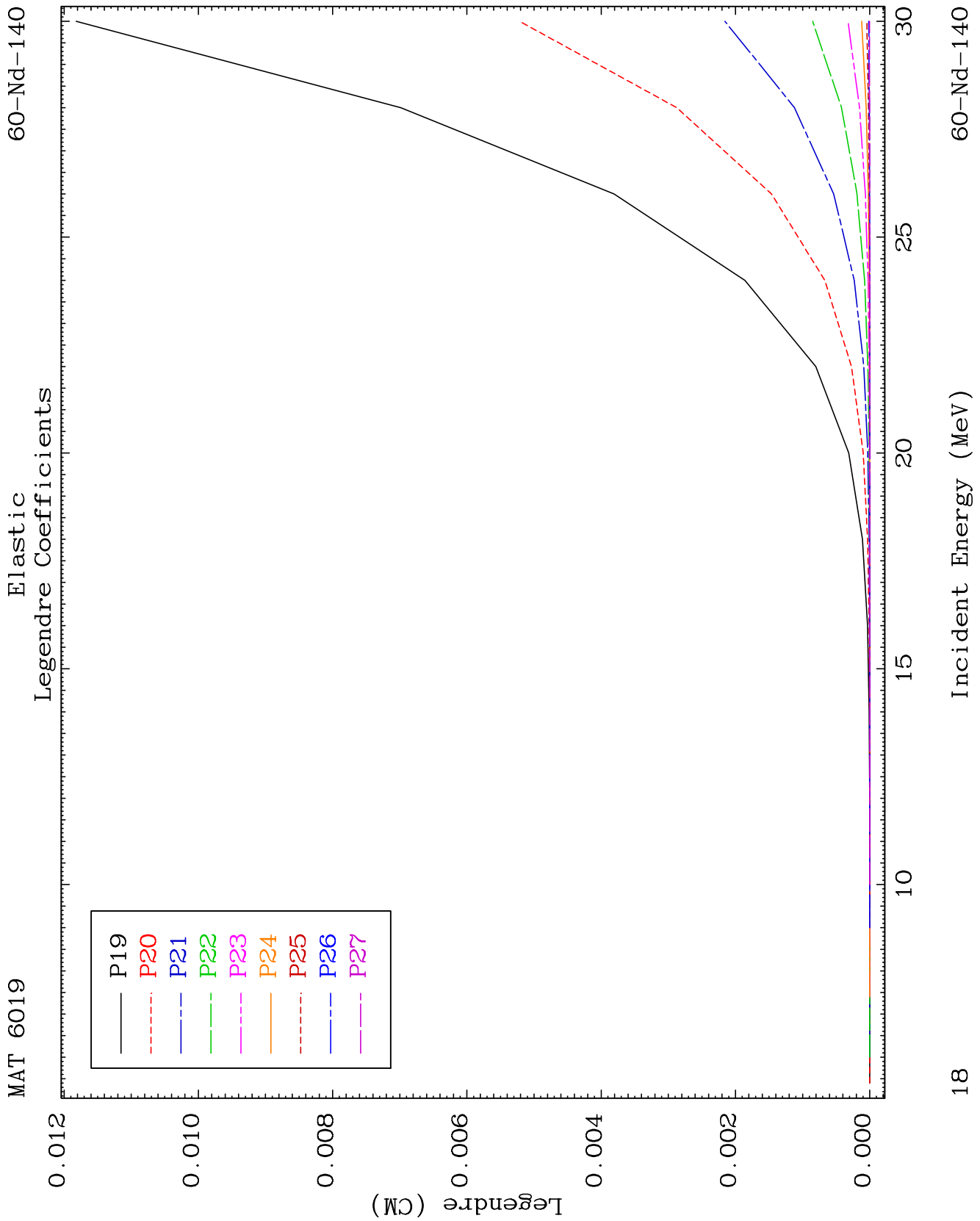
60-Nd-140







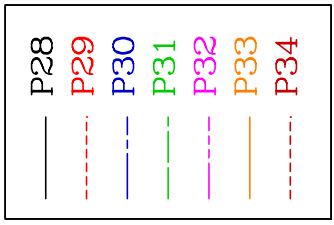
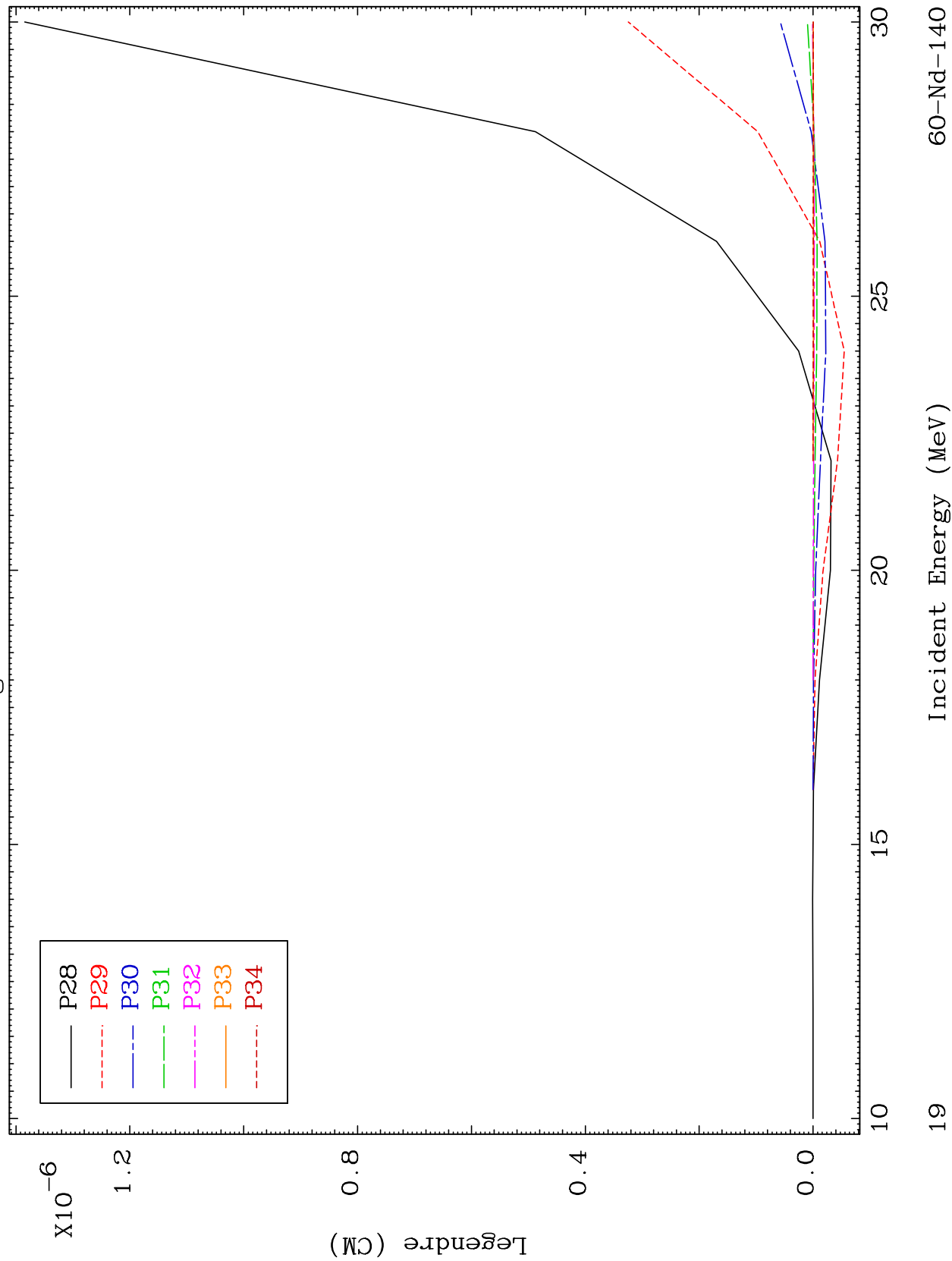




MAT 6019

Elastic Legendre Coefficients

60-Nd-140



$\times 10^{-6}$

Legendre (CM)

10

15

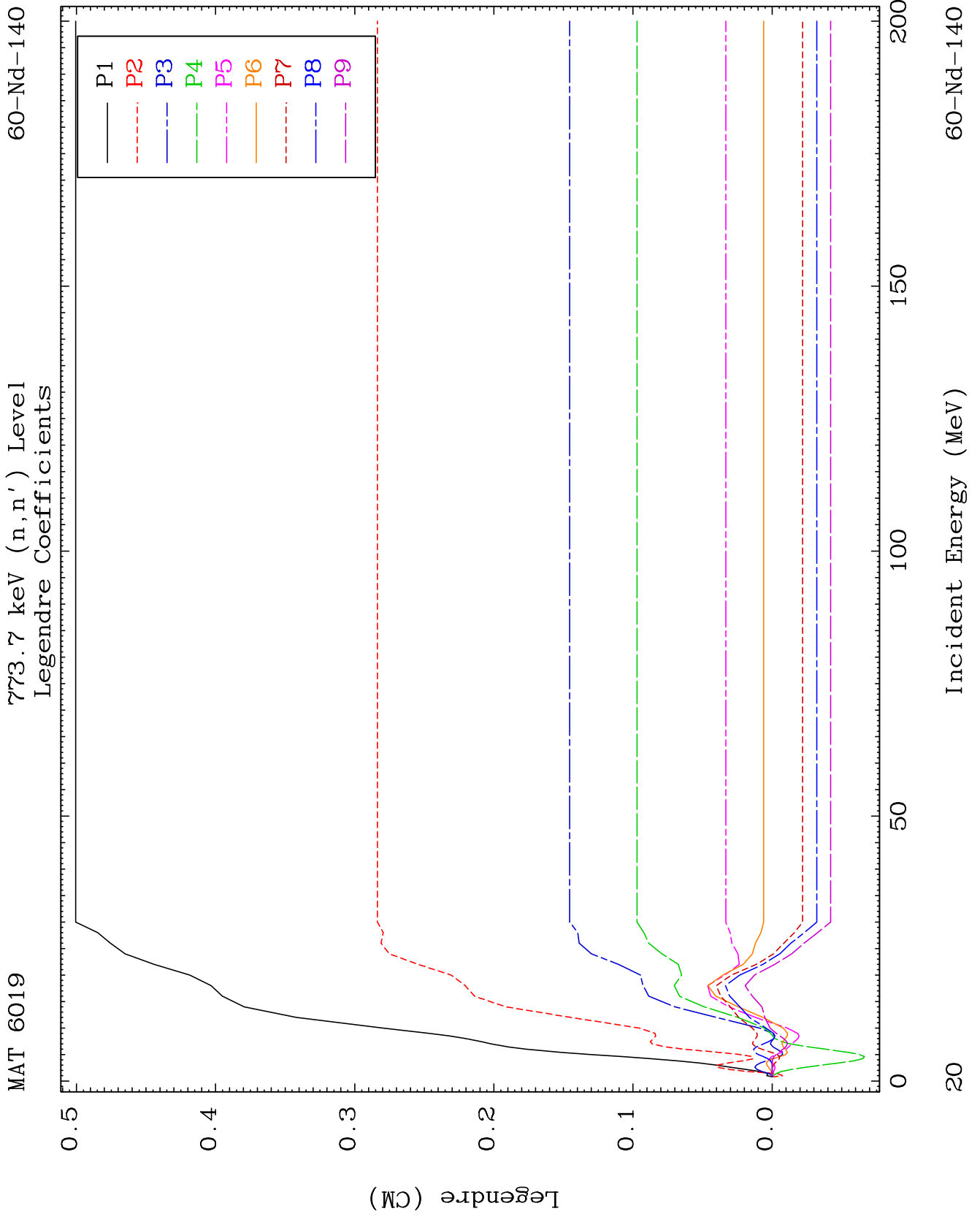
20

25

30

Incident Energy (MeV)

60-Nd-140

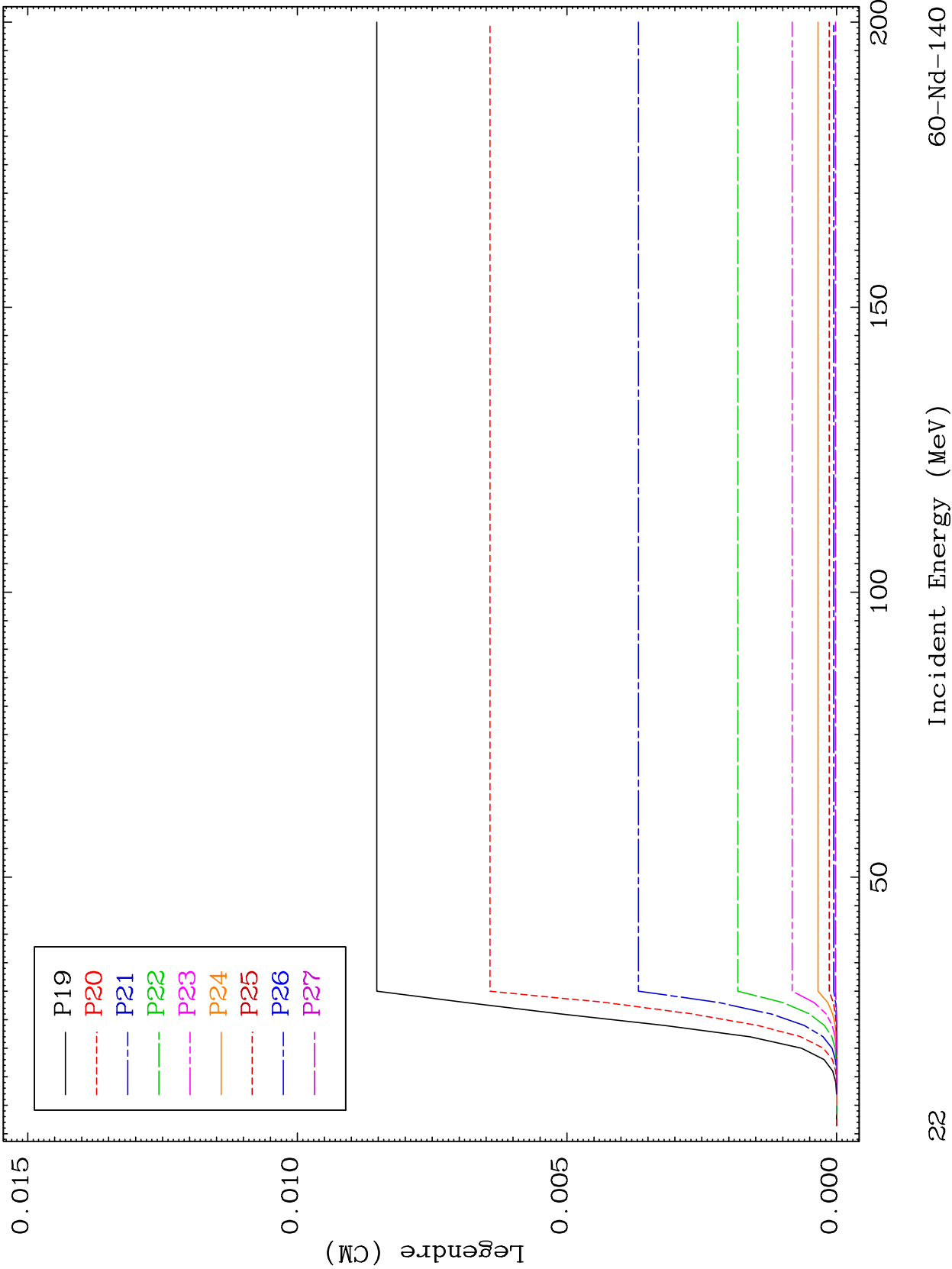




MAT 6019

773.7 keV (n,n') Level  
Legendre Coefficients

60-Nd-140



22

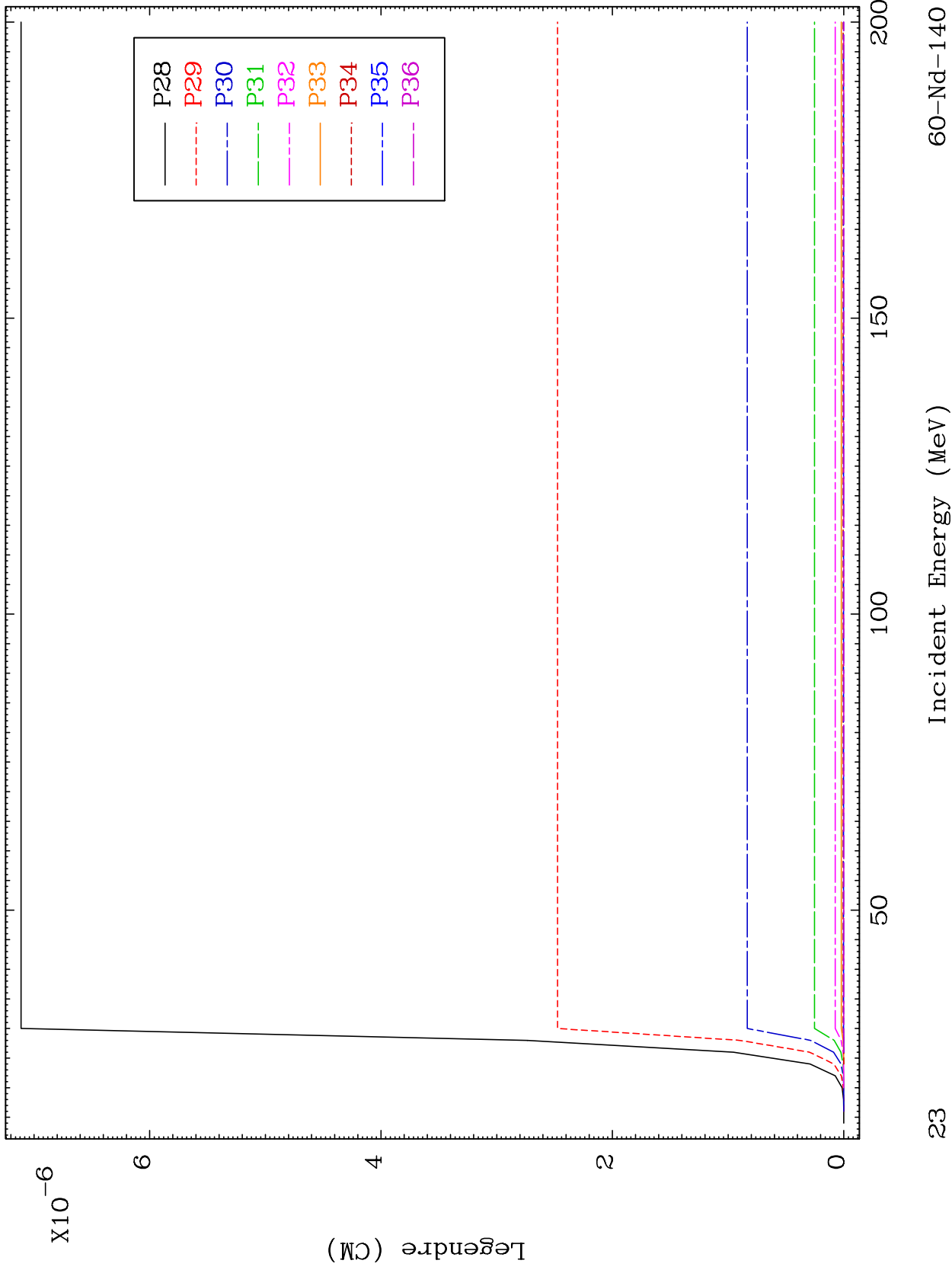
Incident Energy (MeV)

60-Nd-140

MAT 6019

773.7 keV (n,n') Level  
Legendre Coefficients

60-Nd-140

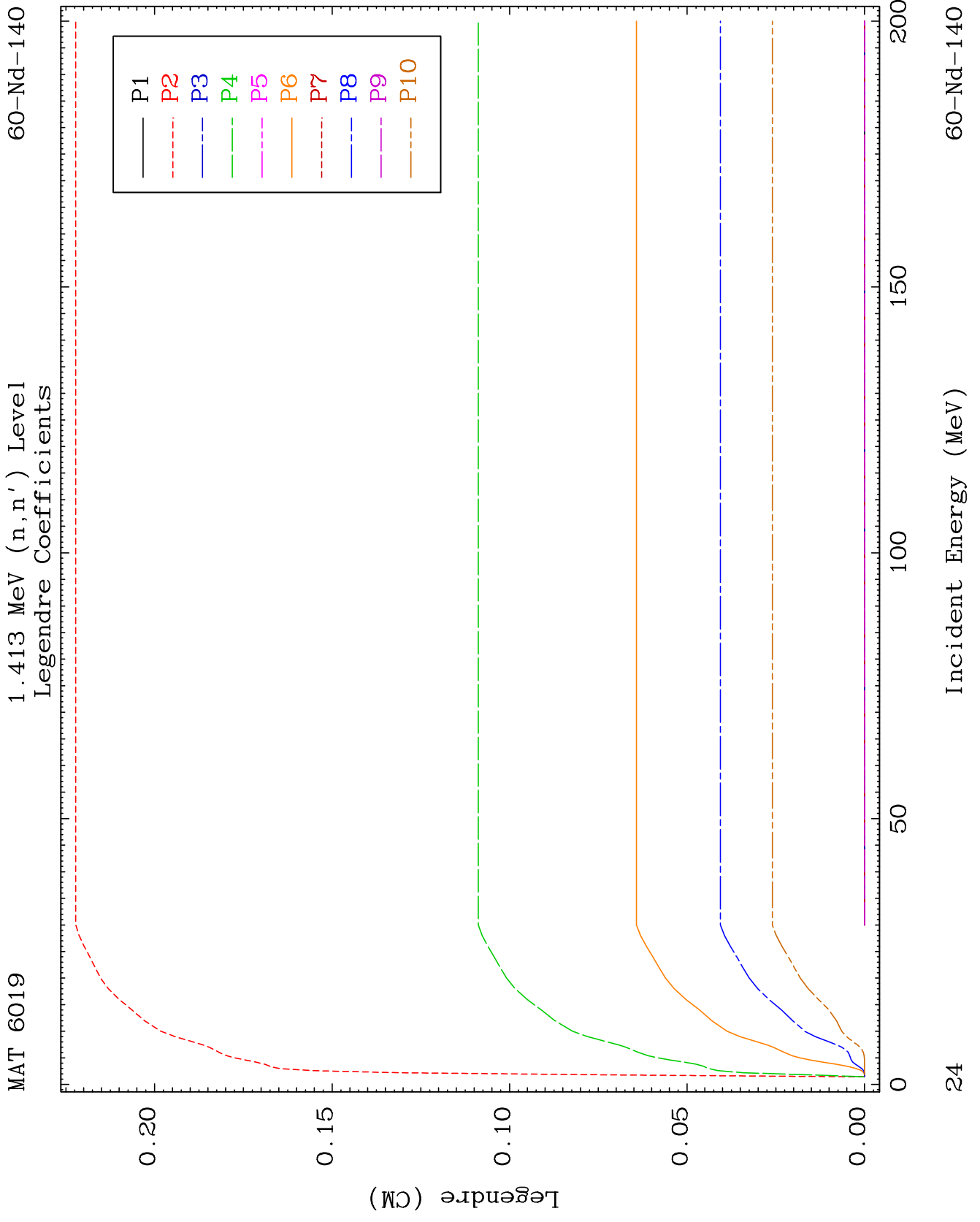


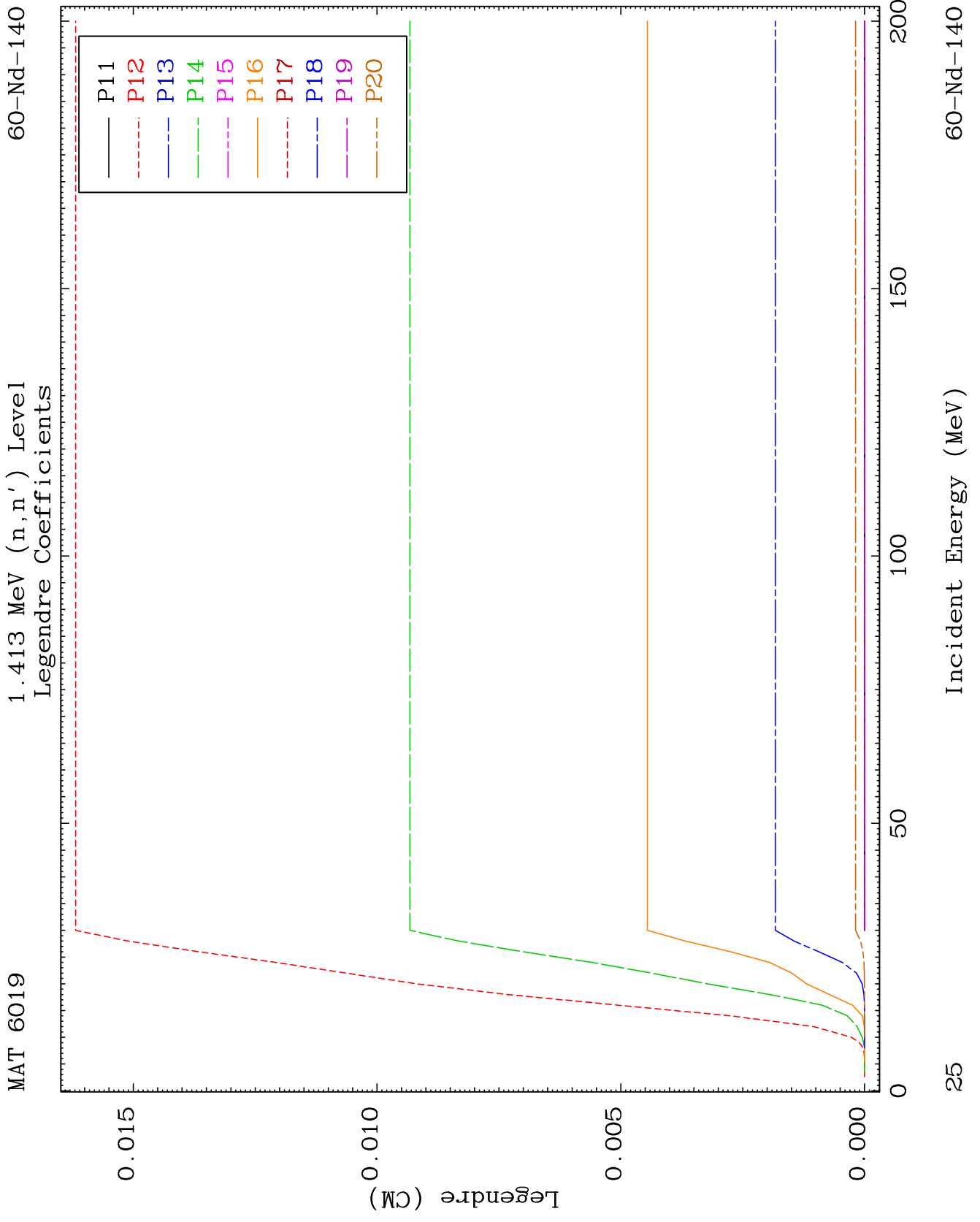
23

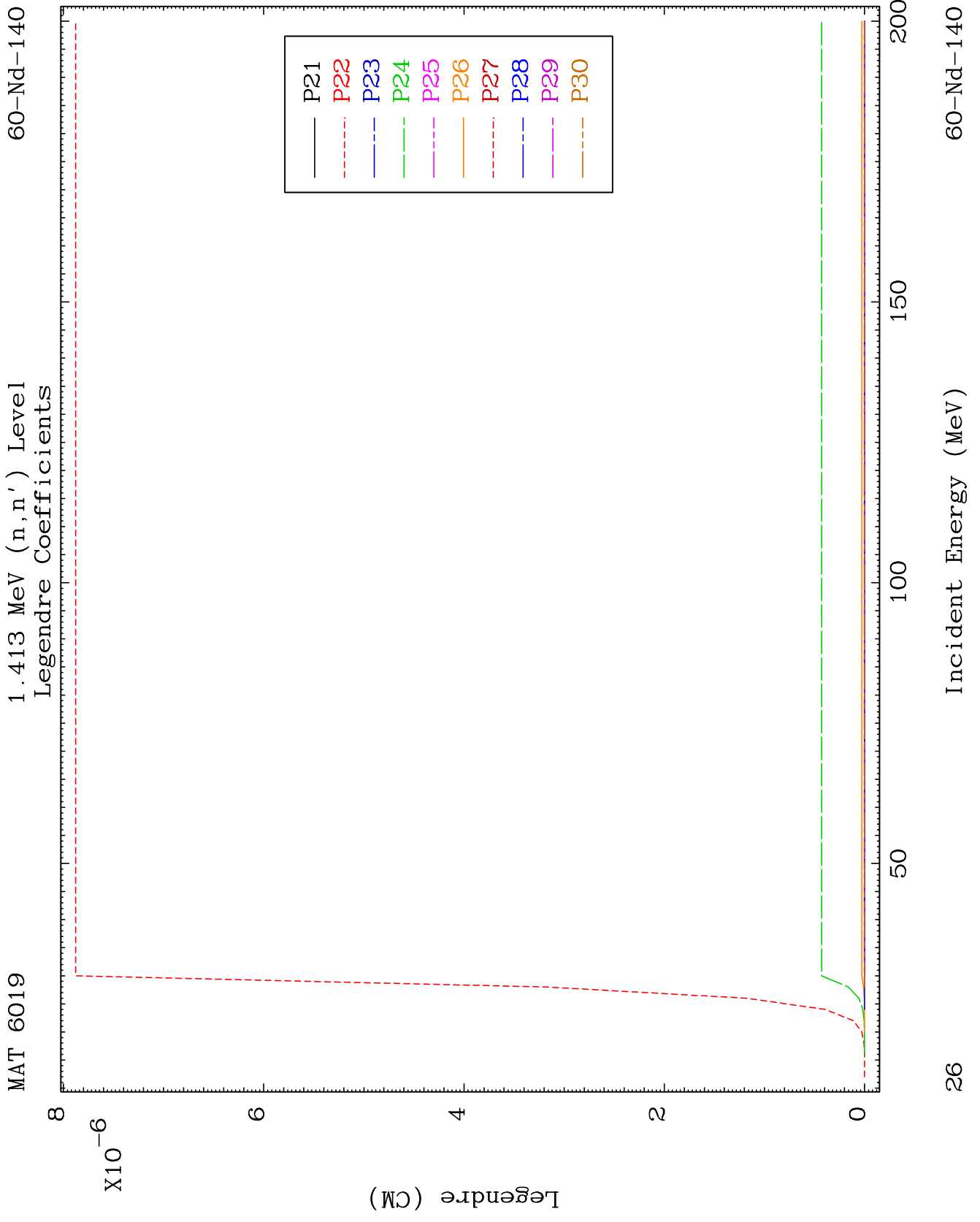
Incident Energy (MeV)

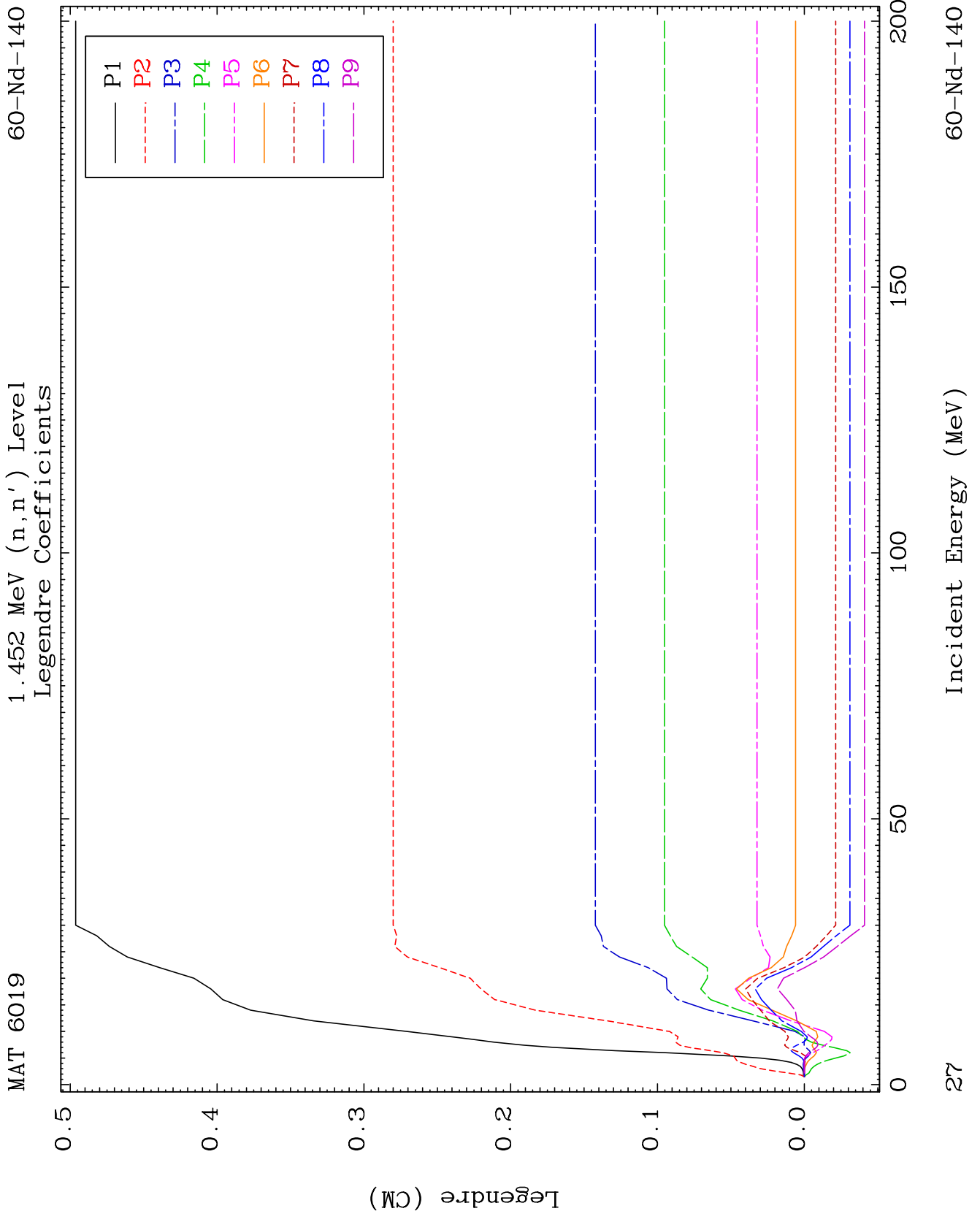
60-Nd-140

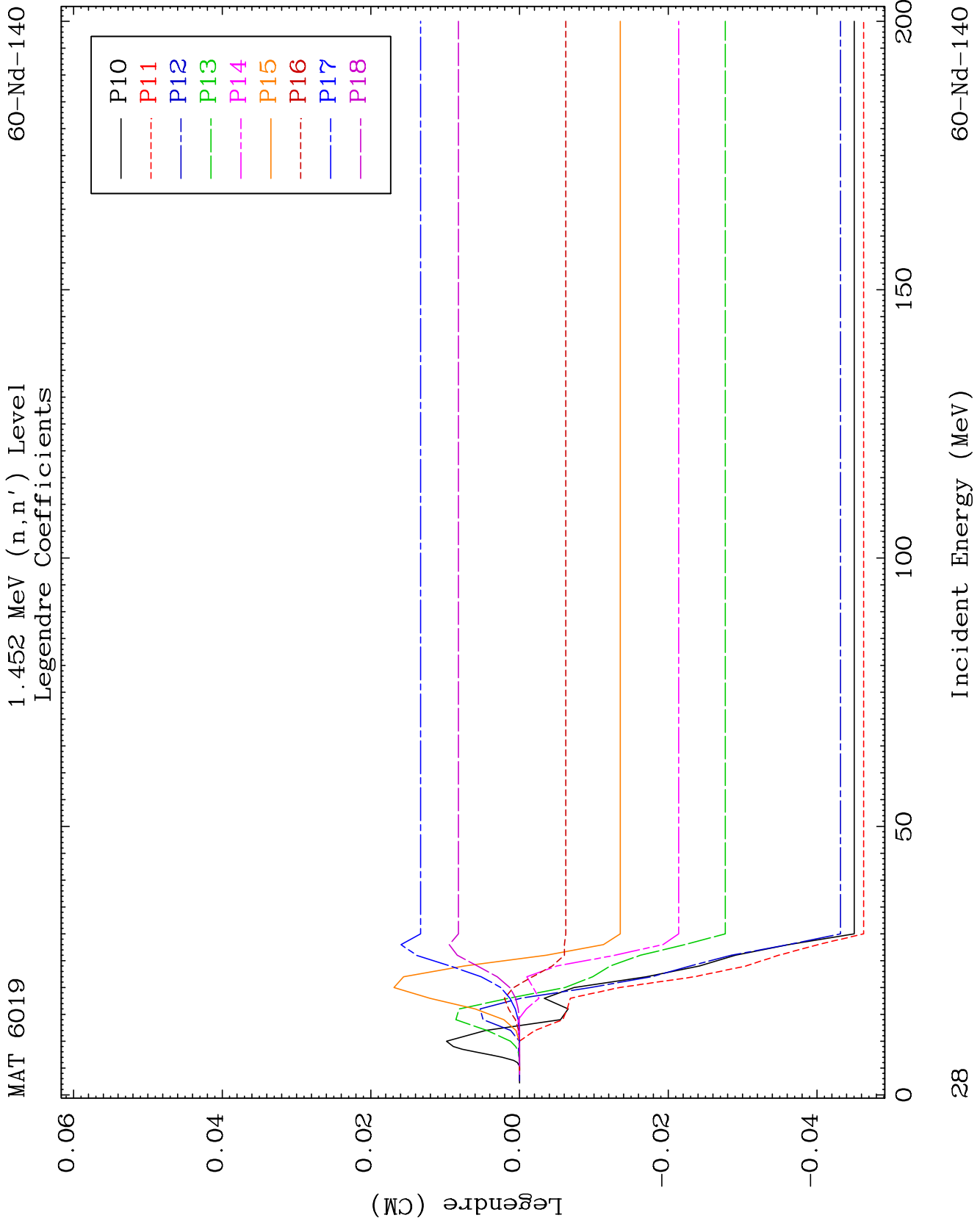




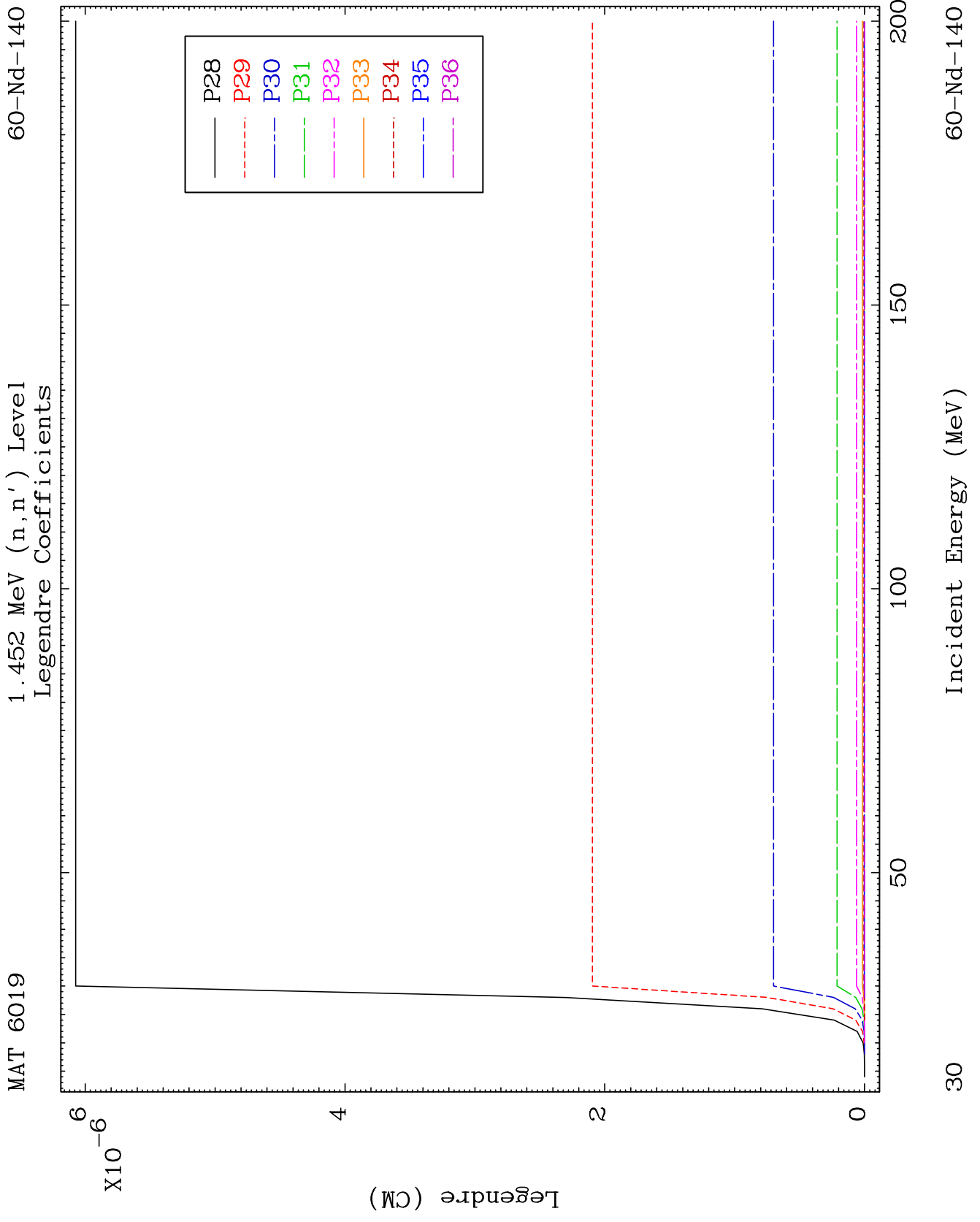








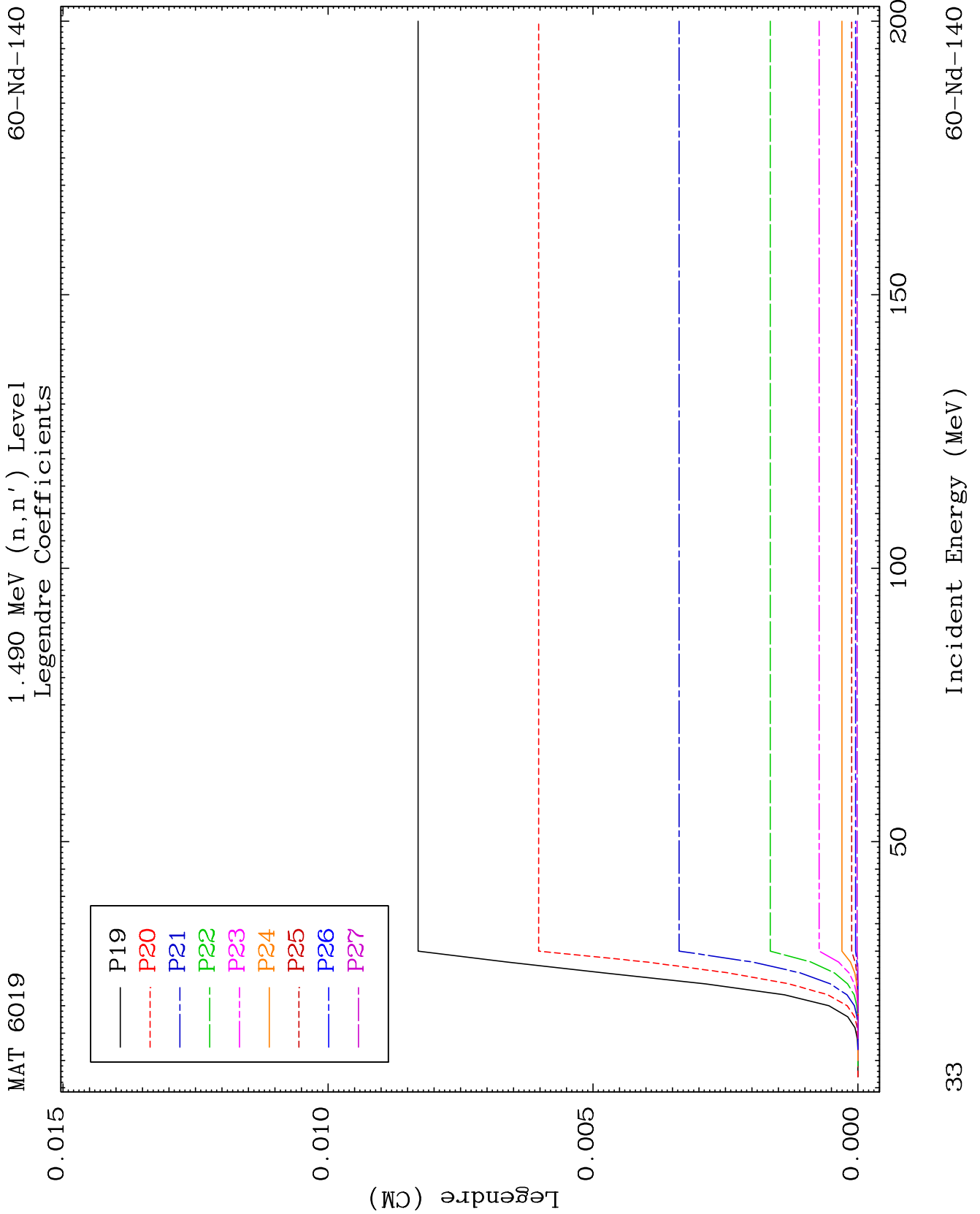


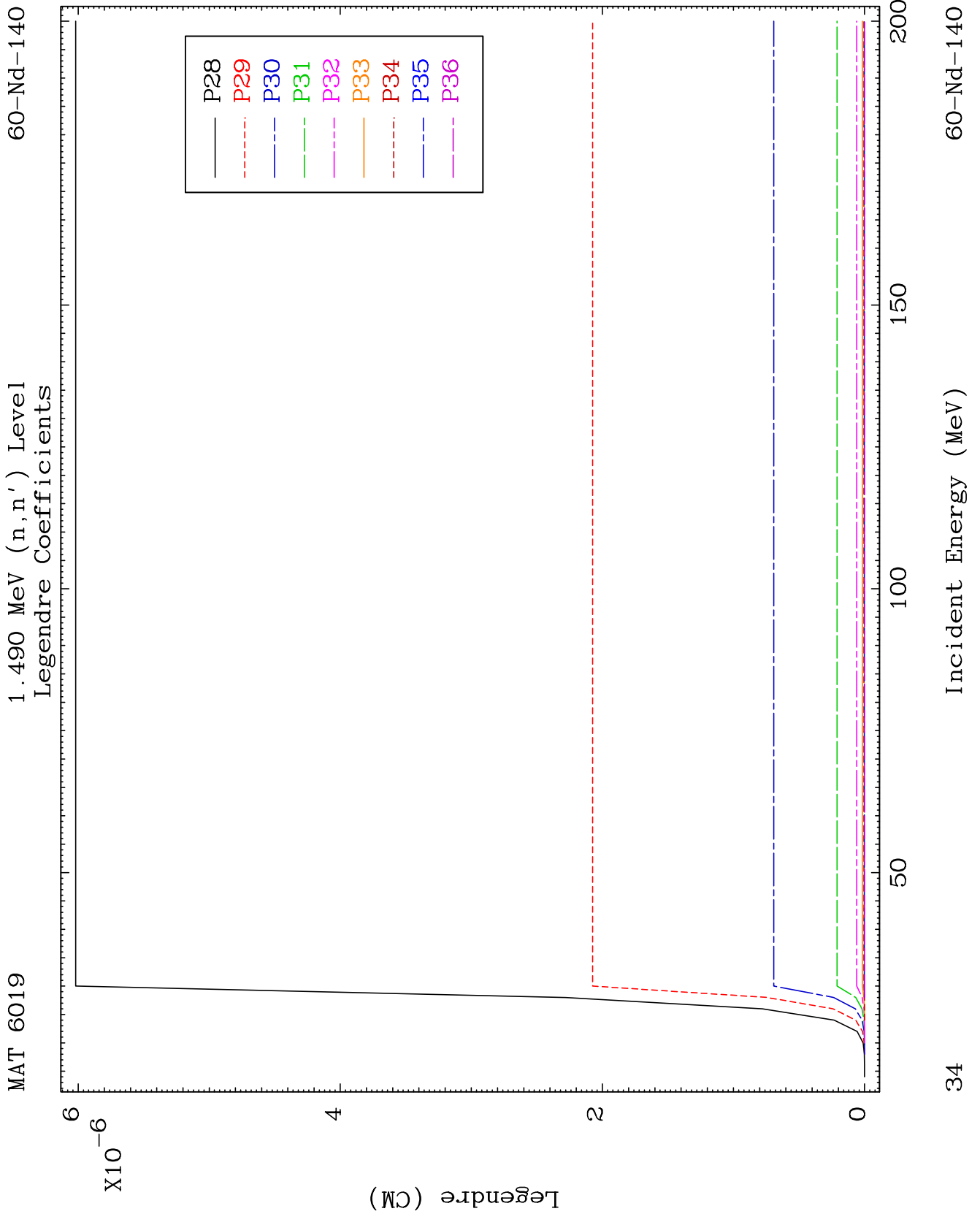


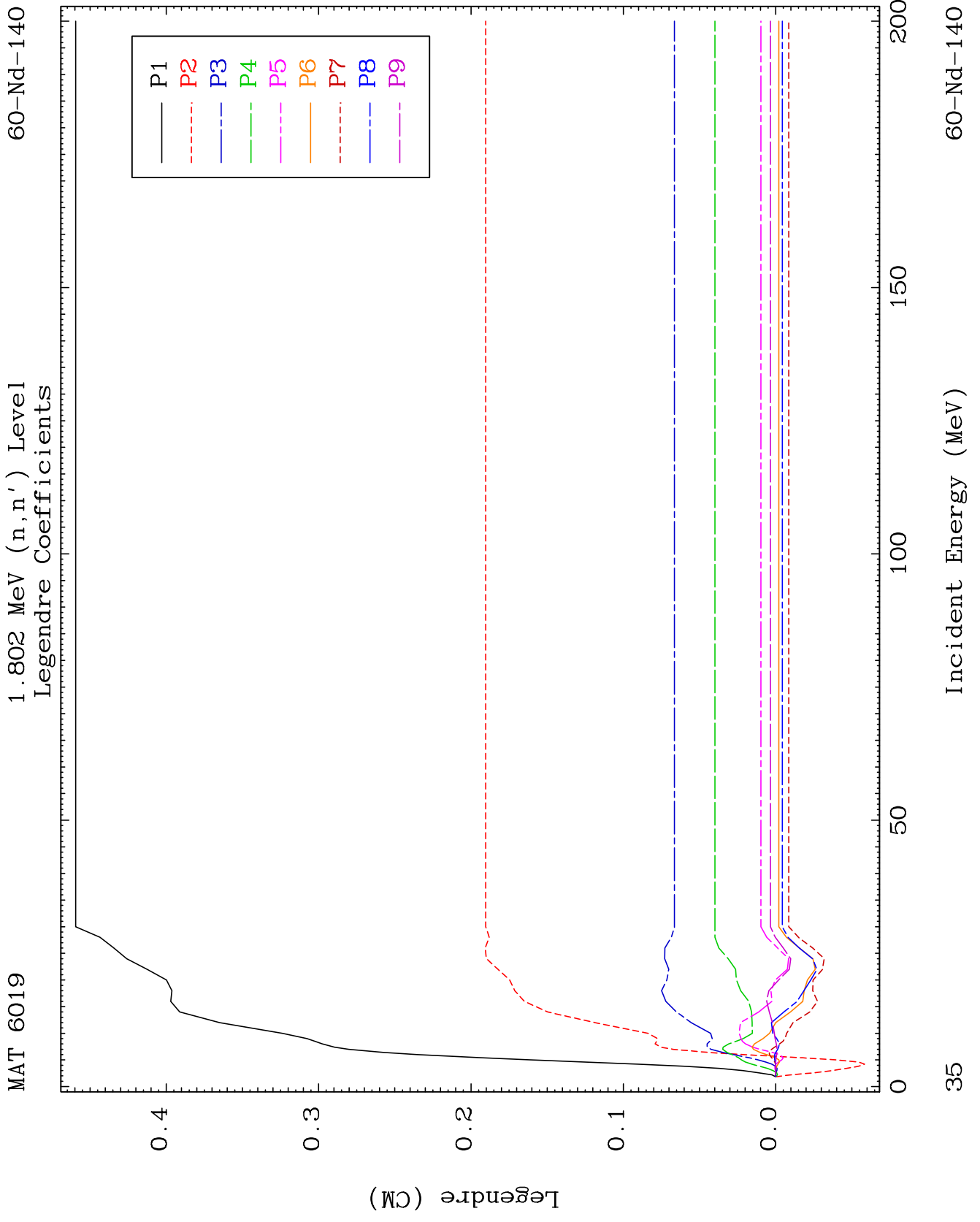




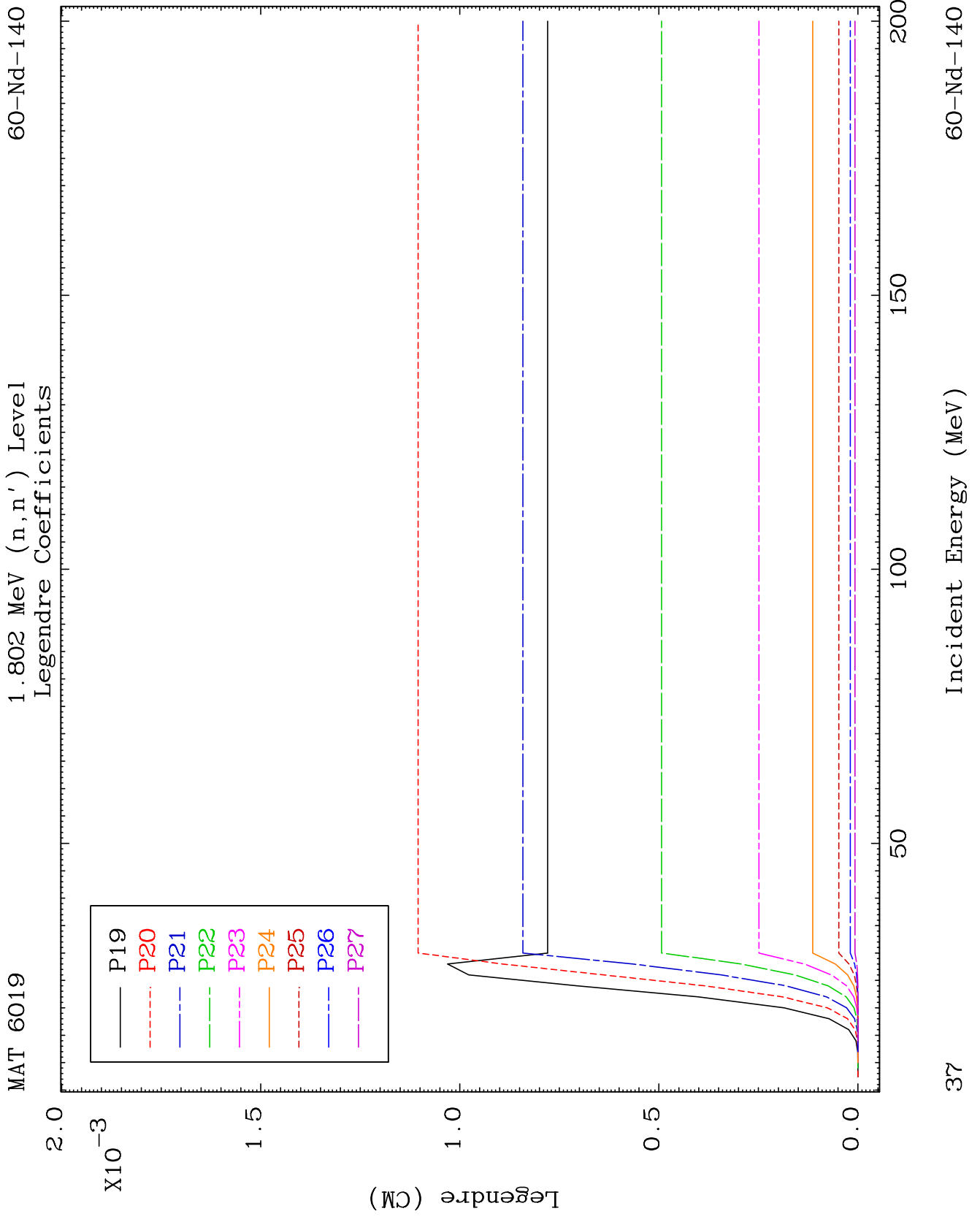


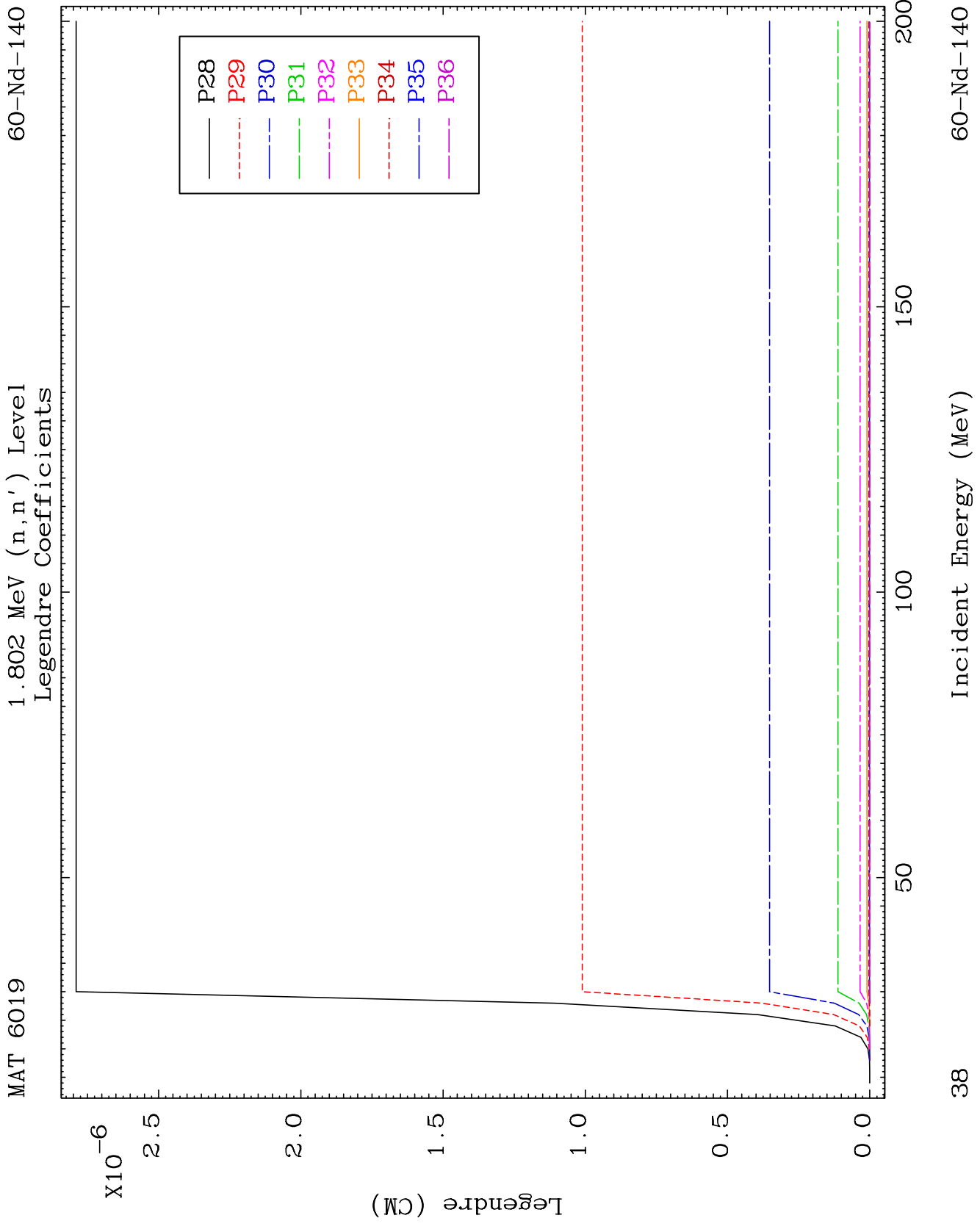


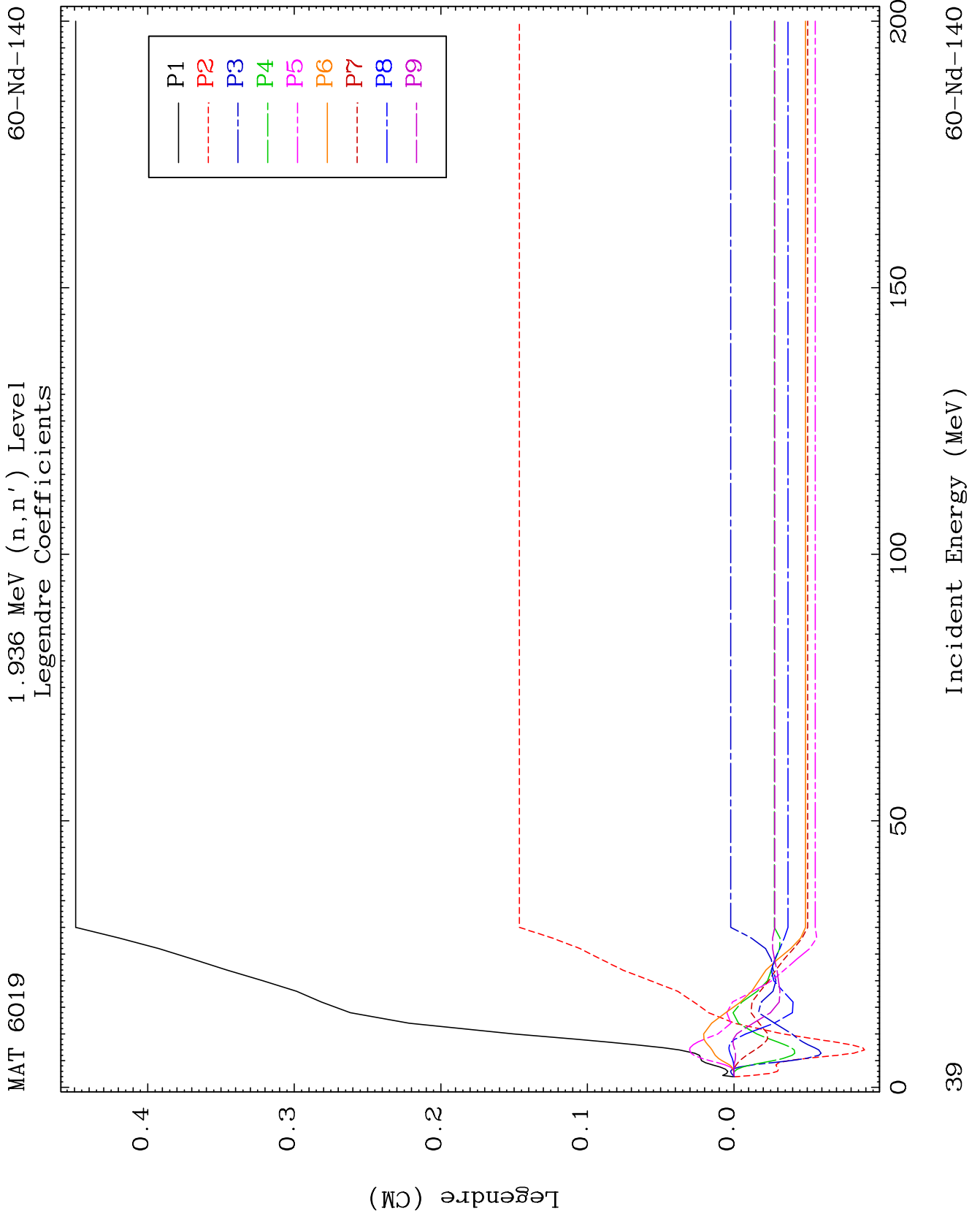












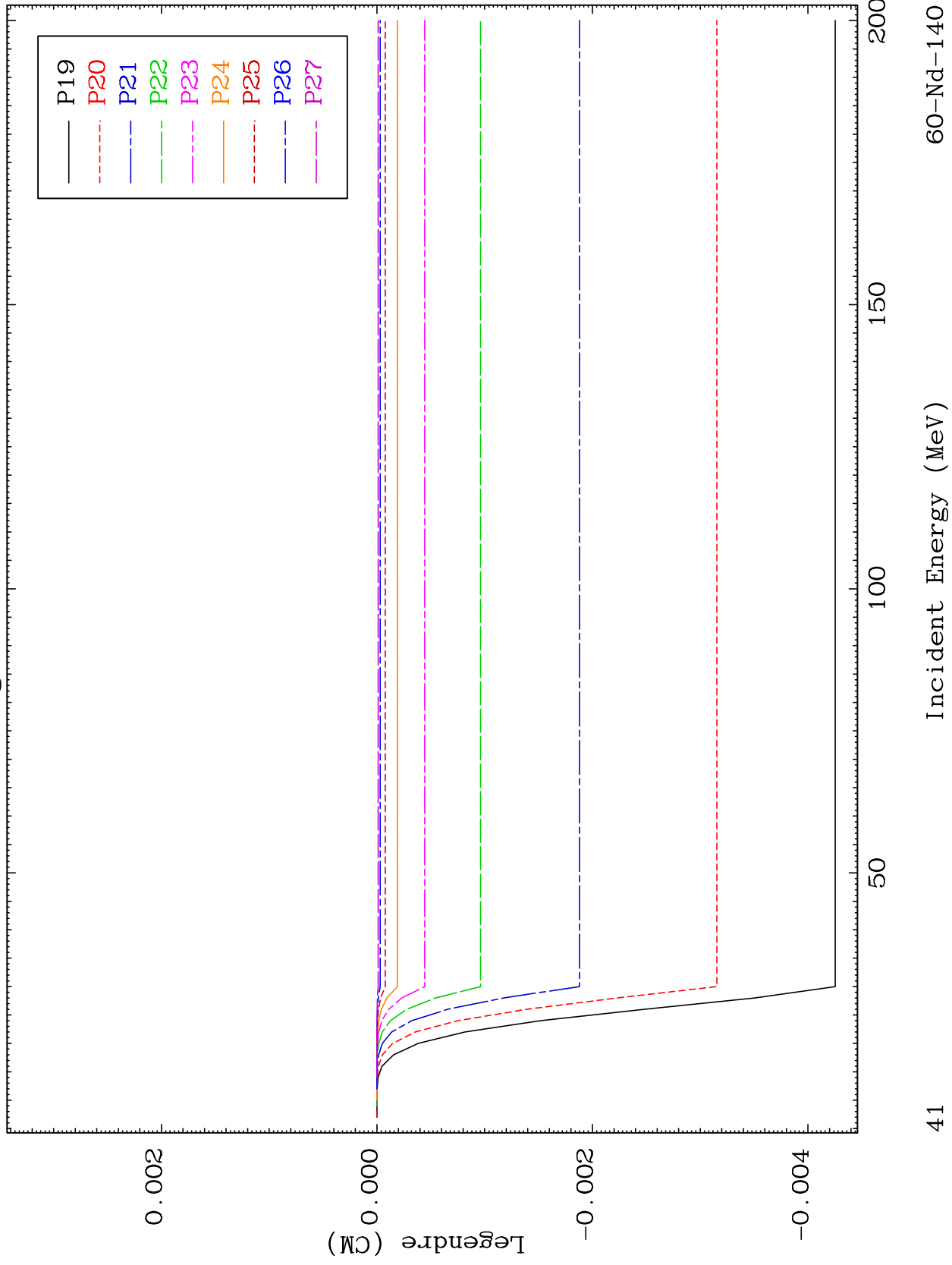




MAT 6019

1.936 MeV (n,n') Level  
Legendre Coefficients

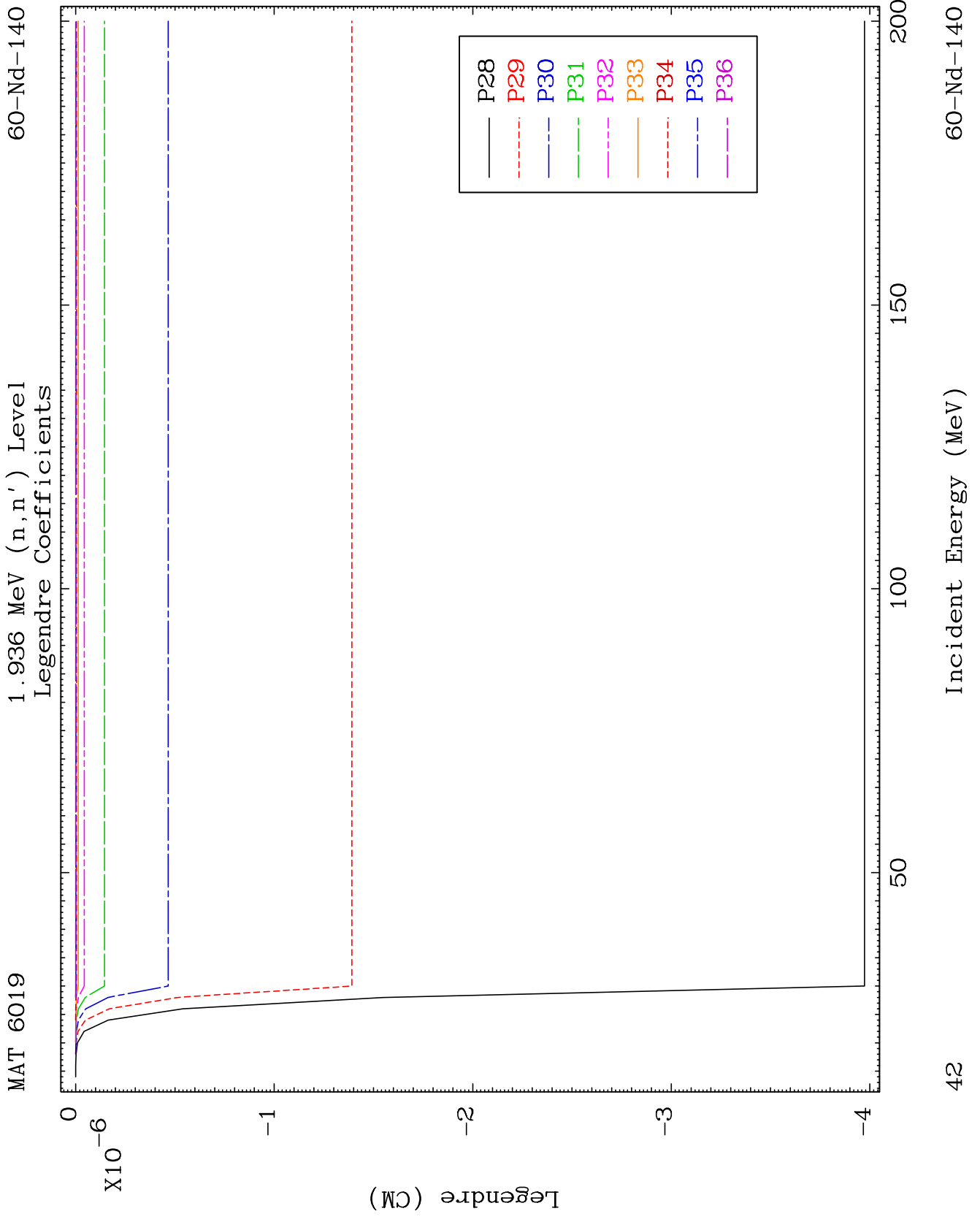
60-Nd-140

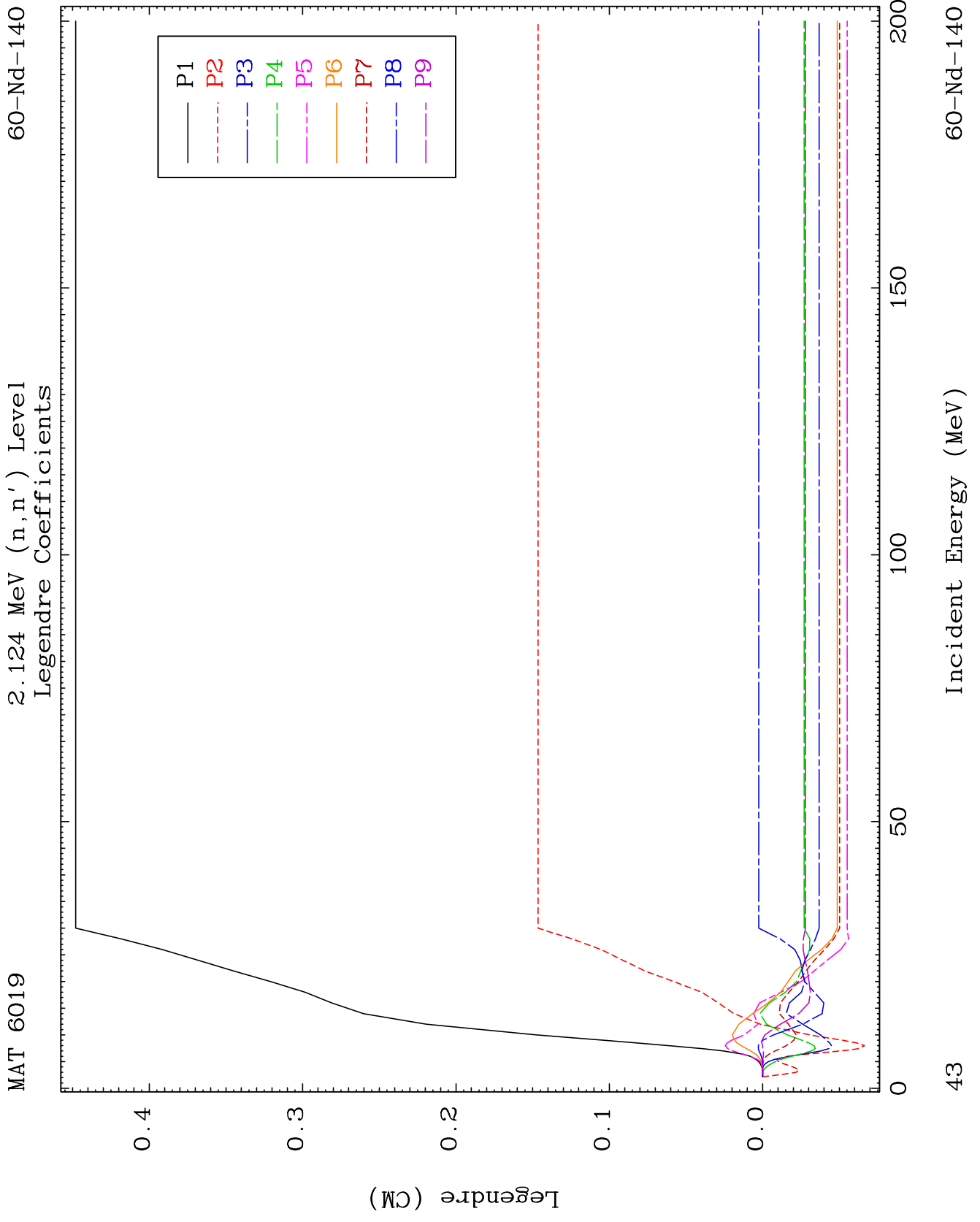


41

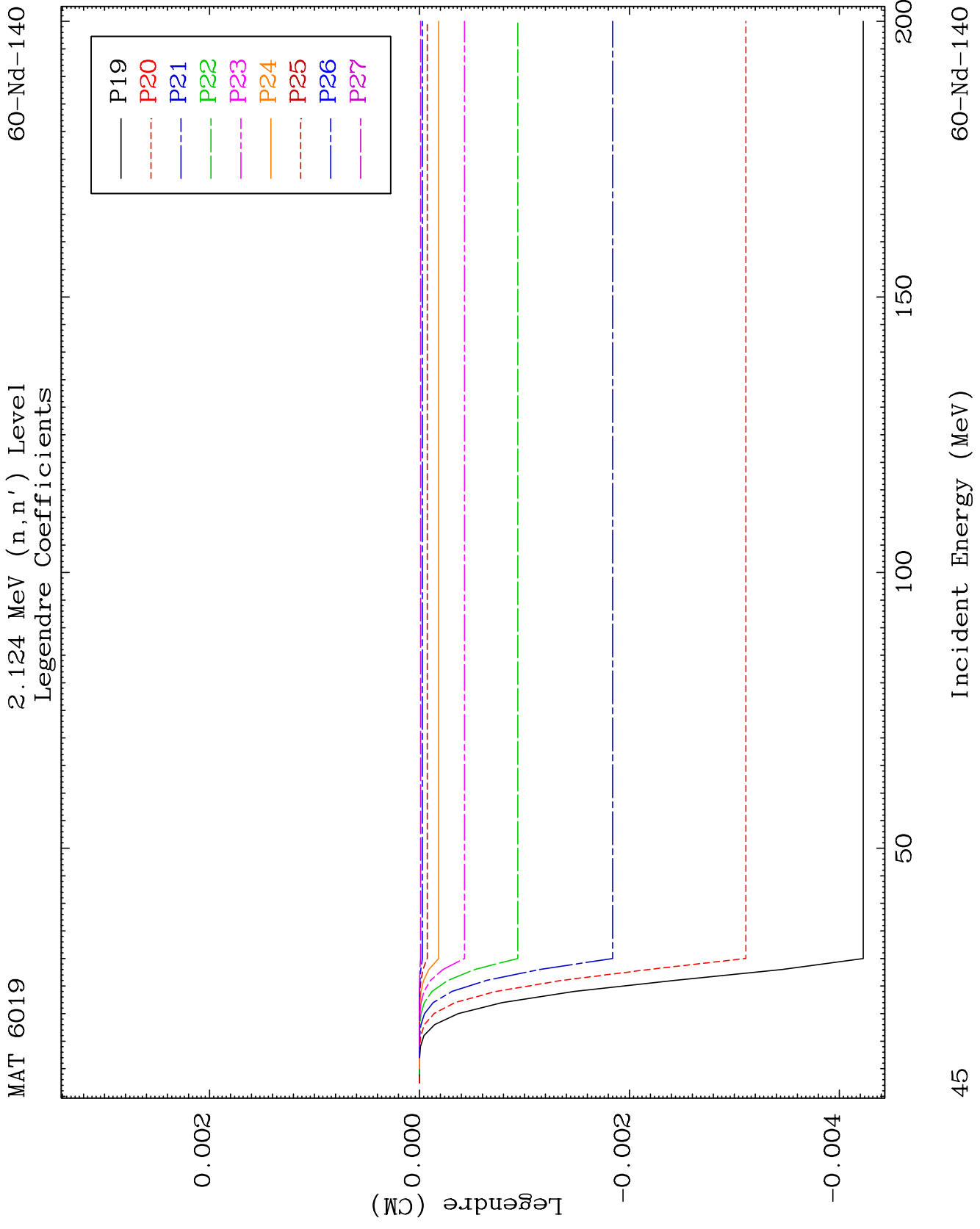
Incident Energy (MeV)

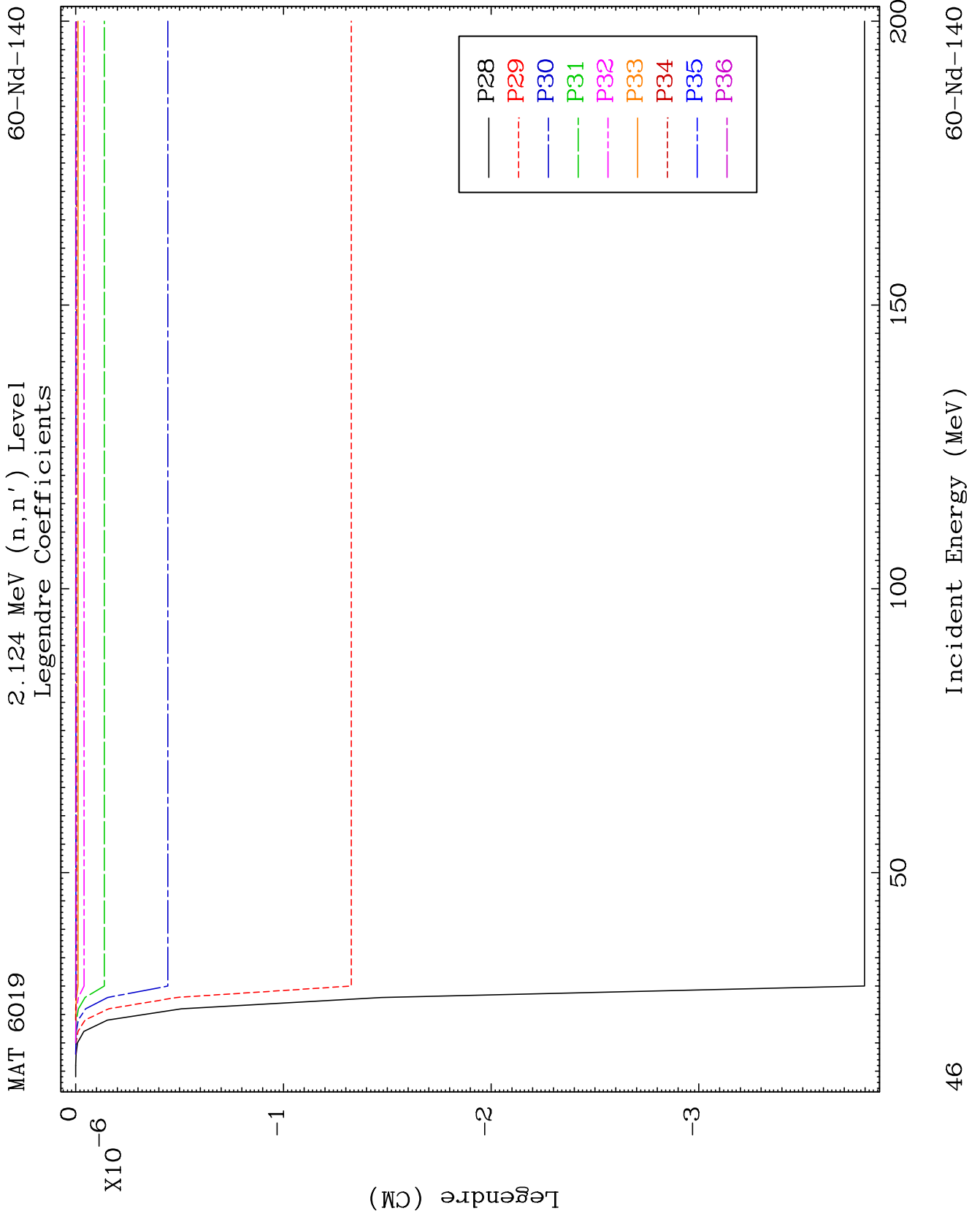
60-Nd-140

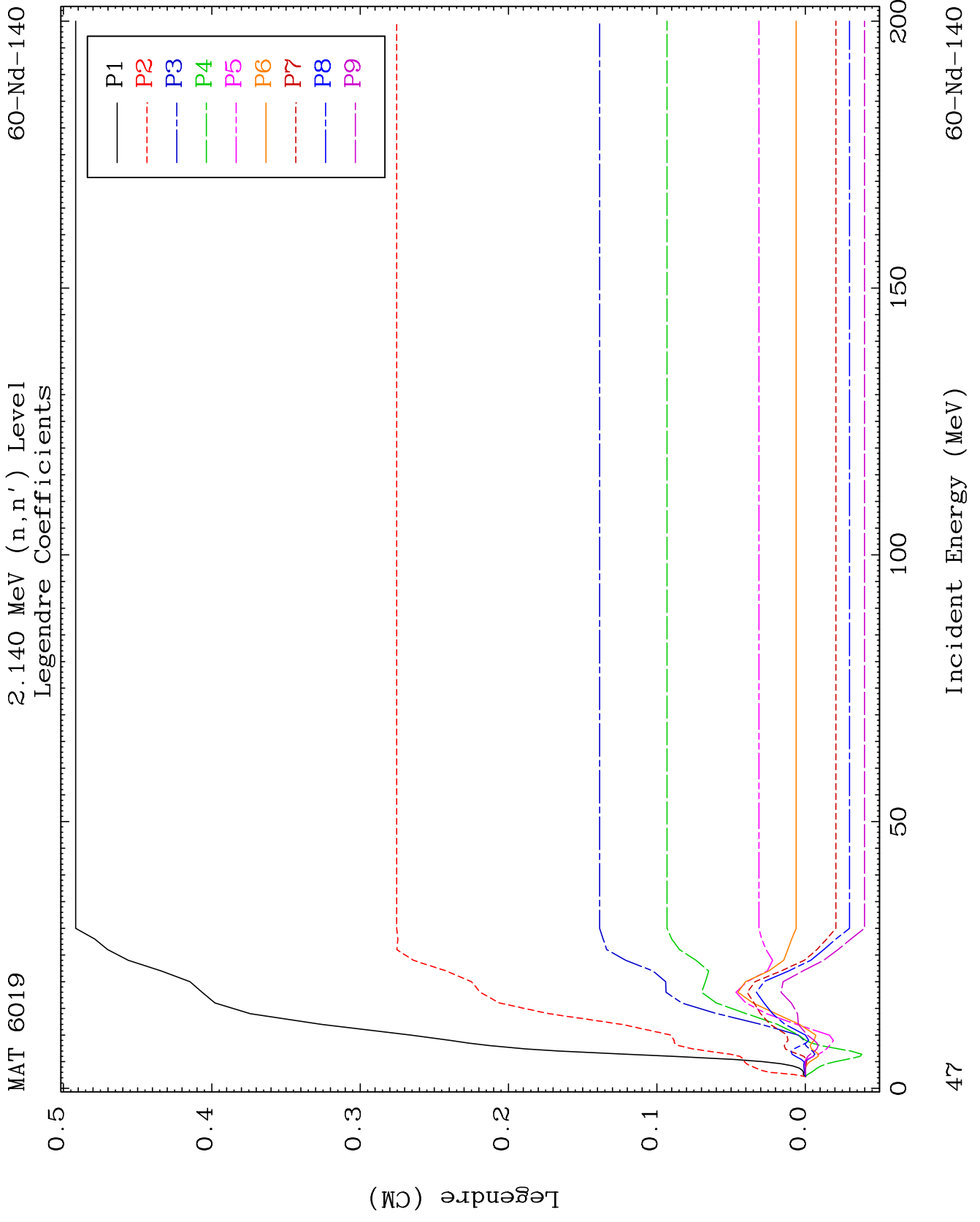












MAT 6019

2.140 MeV (n, n') Level  
Legendre Coefficients

60-Nd-140

47

Incident Energy (MeV)

60-Nd-140

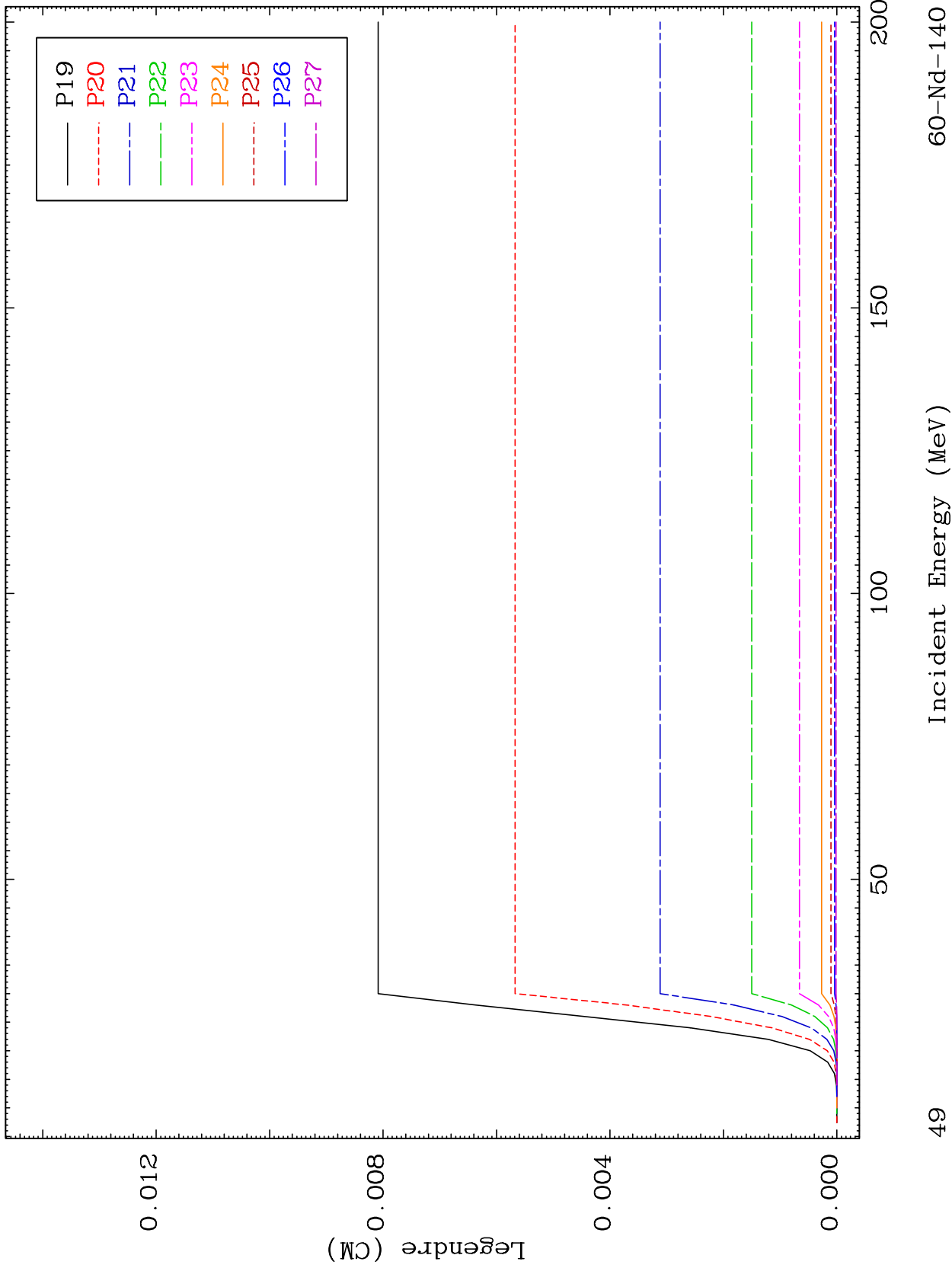




MAT 6019

2.140 MeV (n,n') Level  
Legendre Coefficients

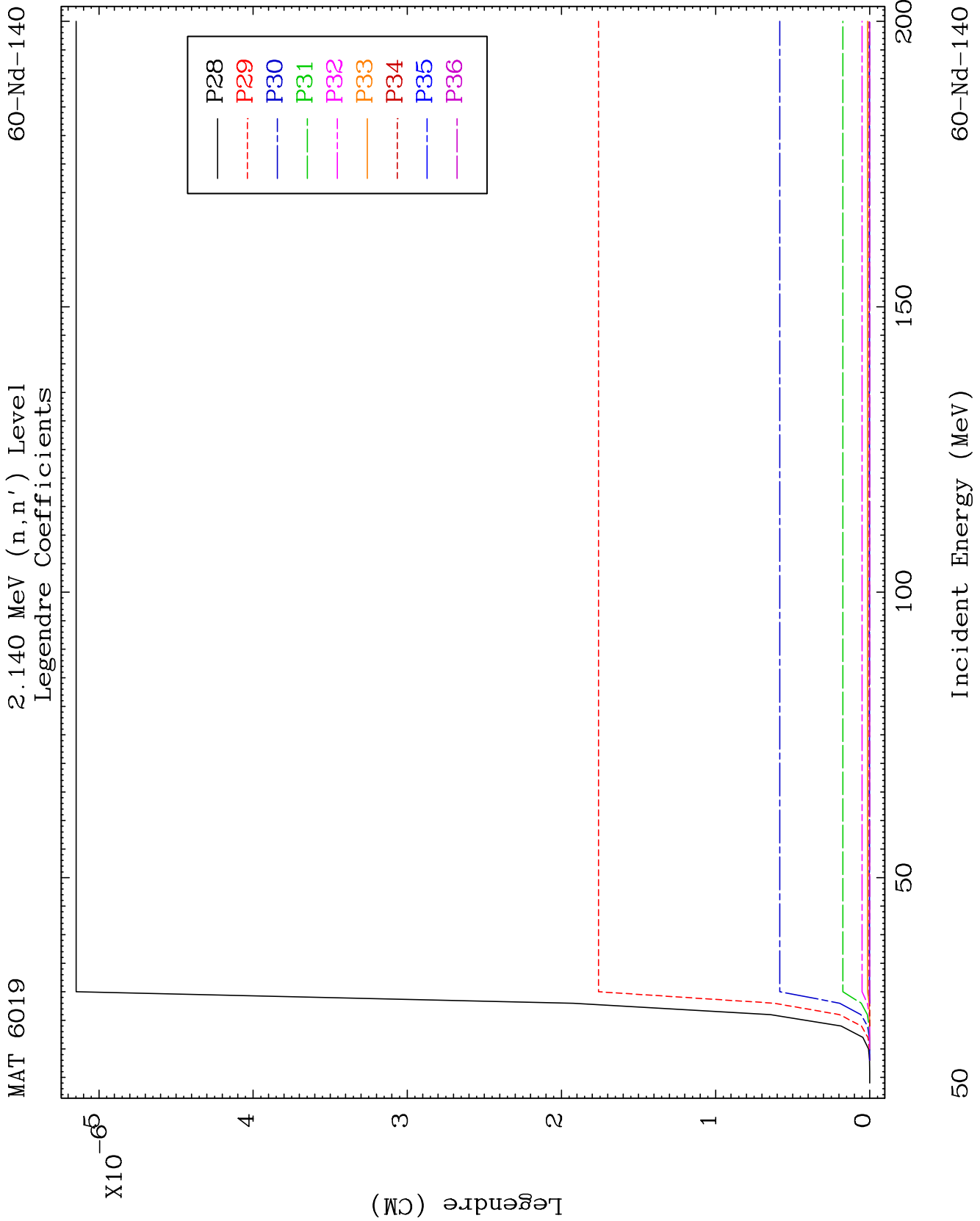
60-Nd-140

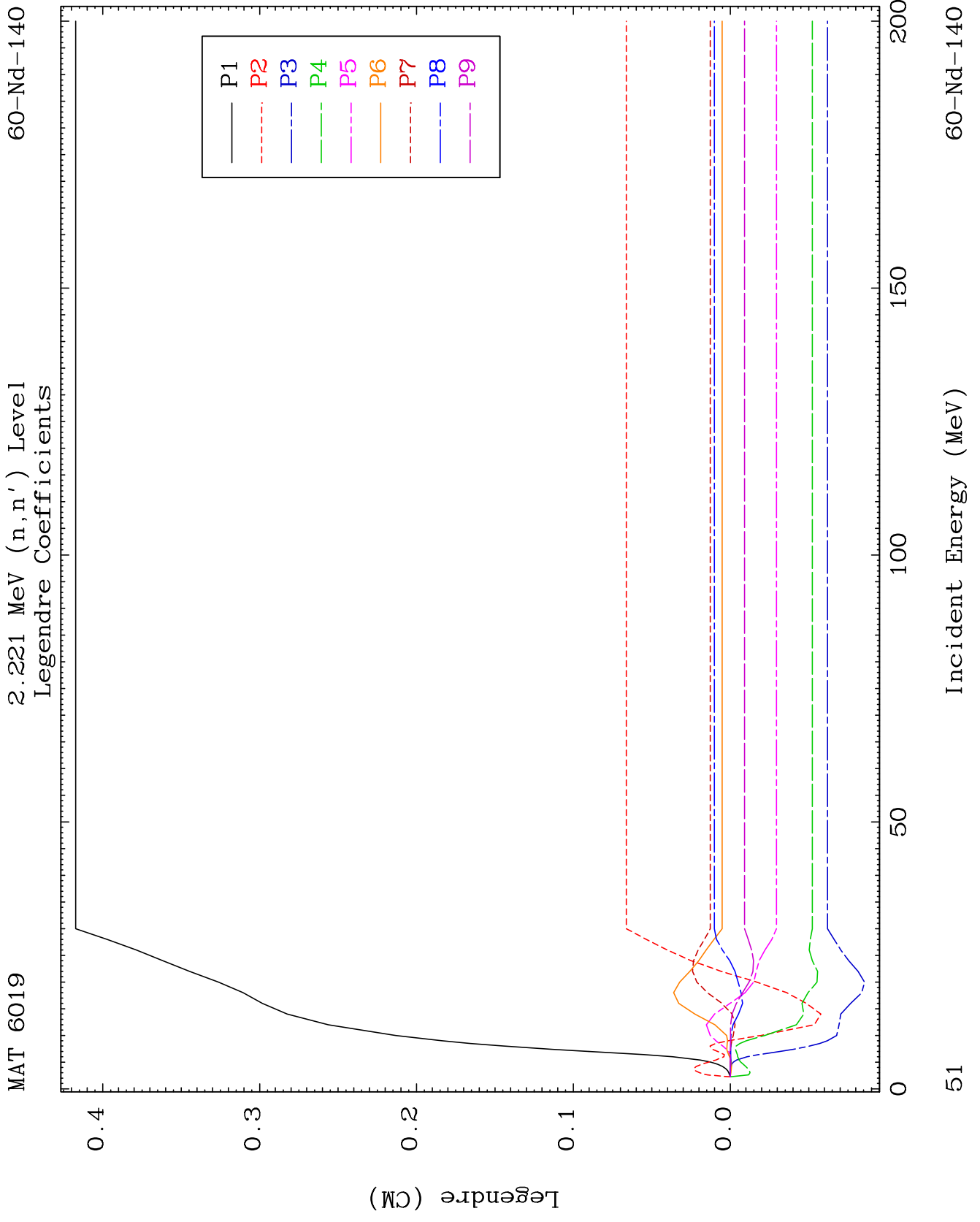


49

Incident Energy (MeV)

60-Nd-140



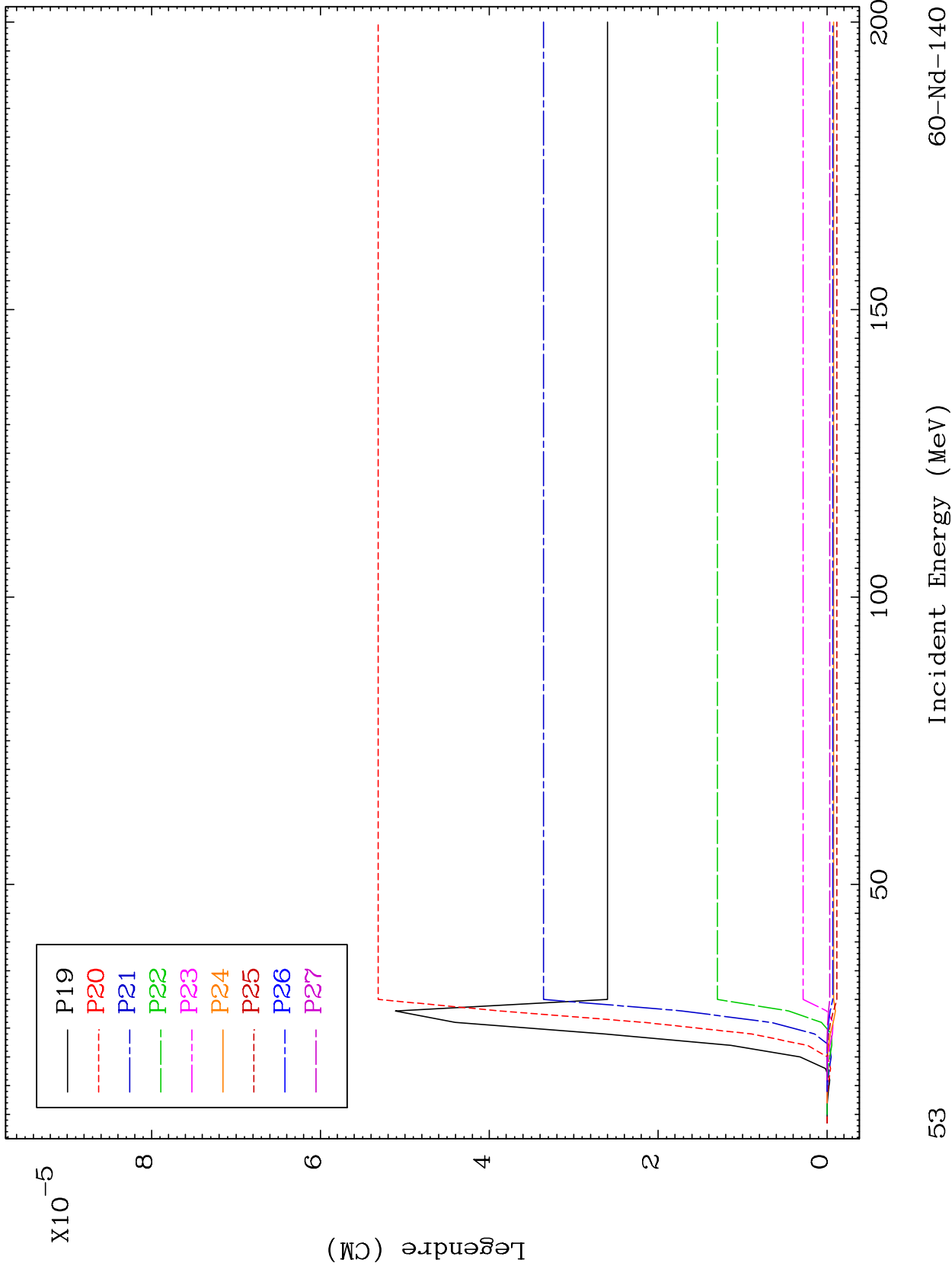


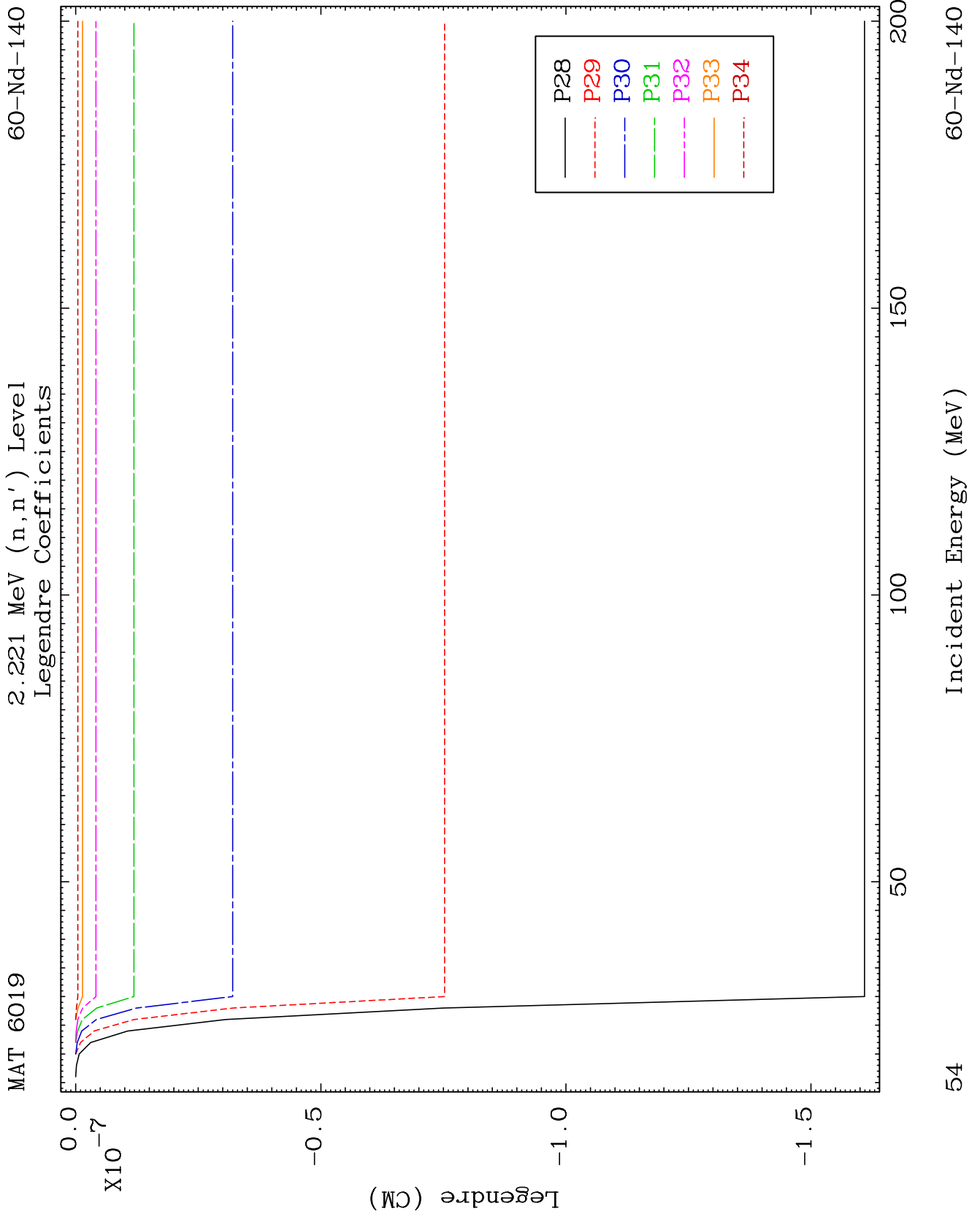


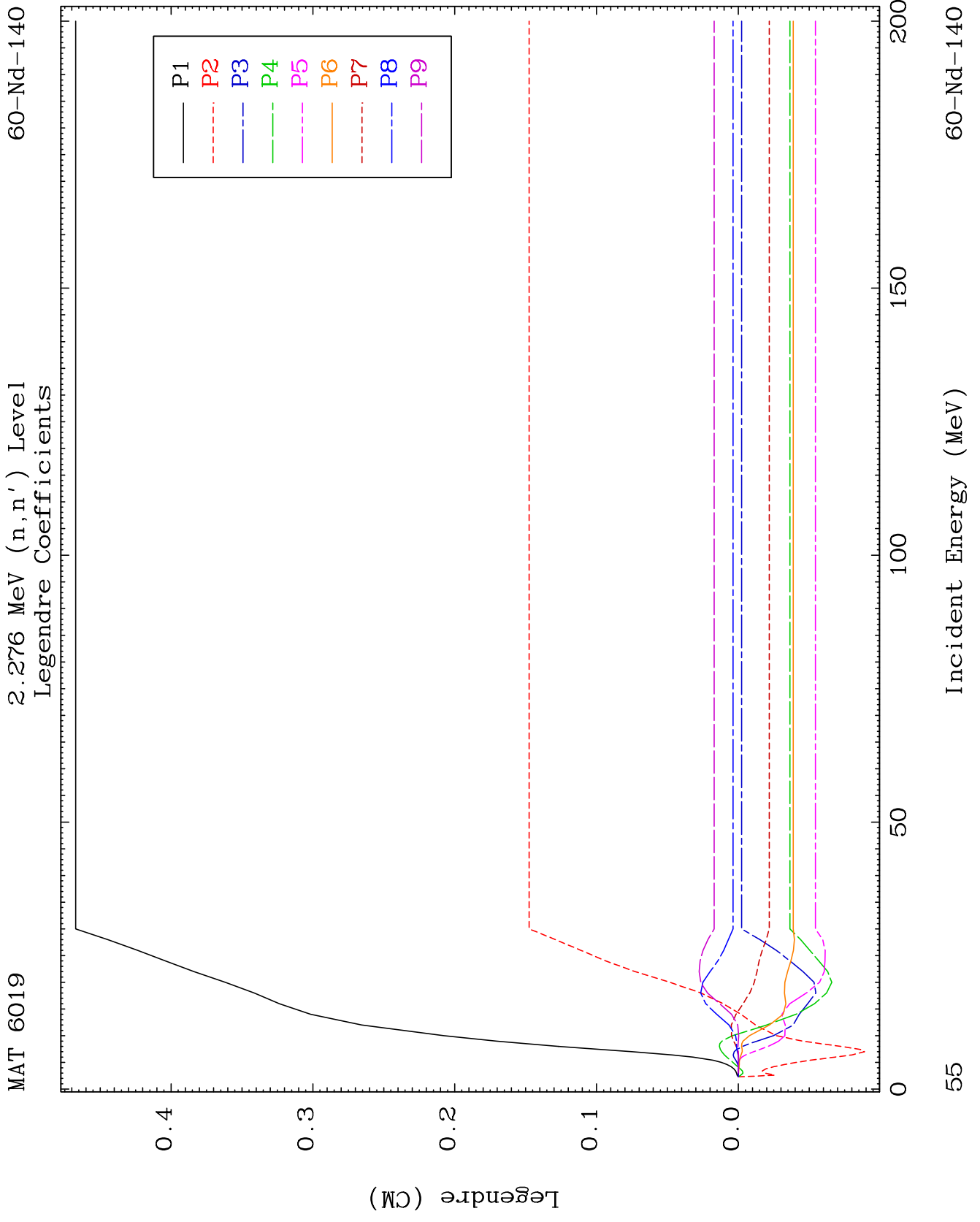
MAT 6019

2.221 MeV (n, n') Level  
Legendre Coefficients

60-Nd-140

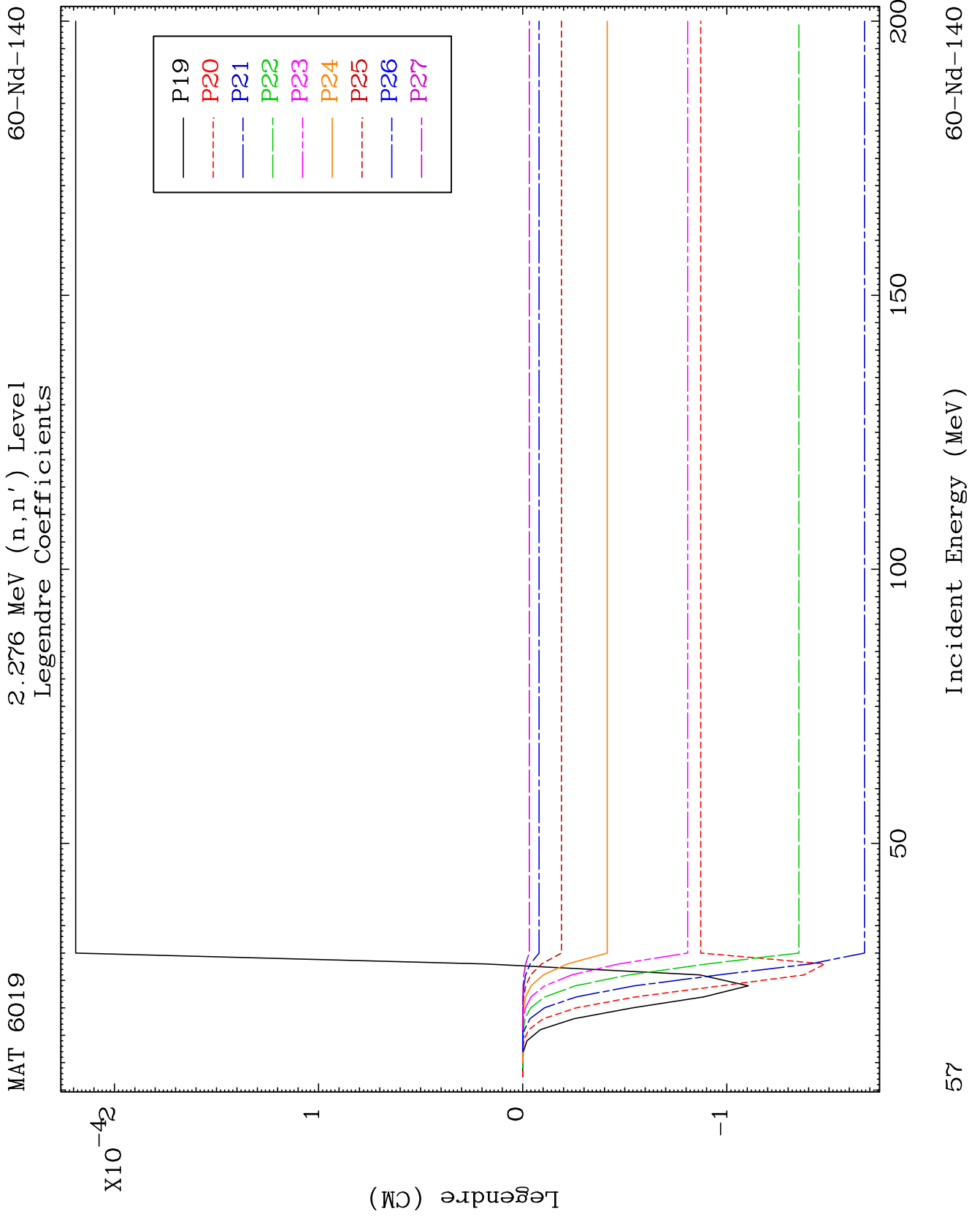


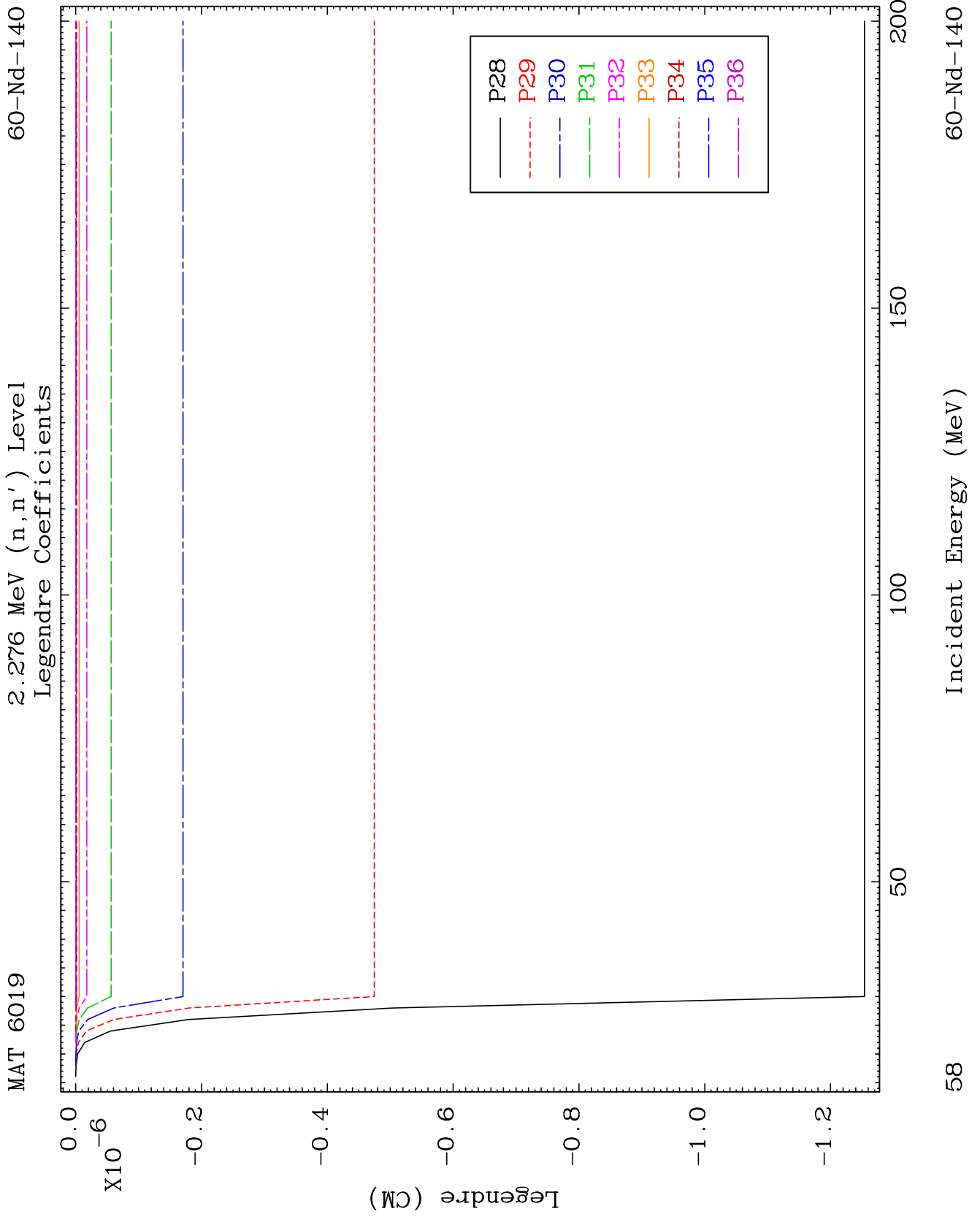


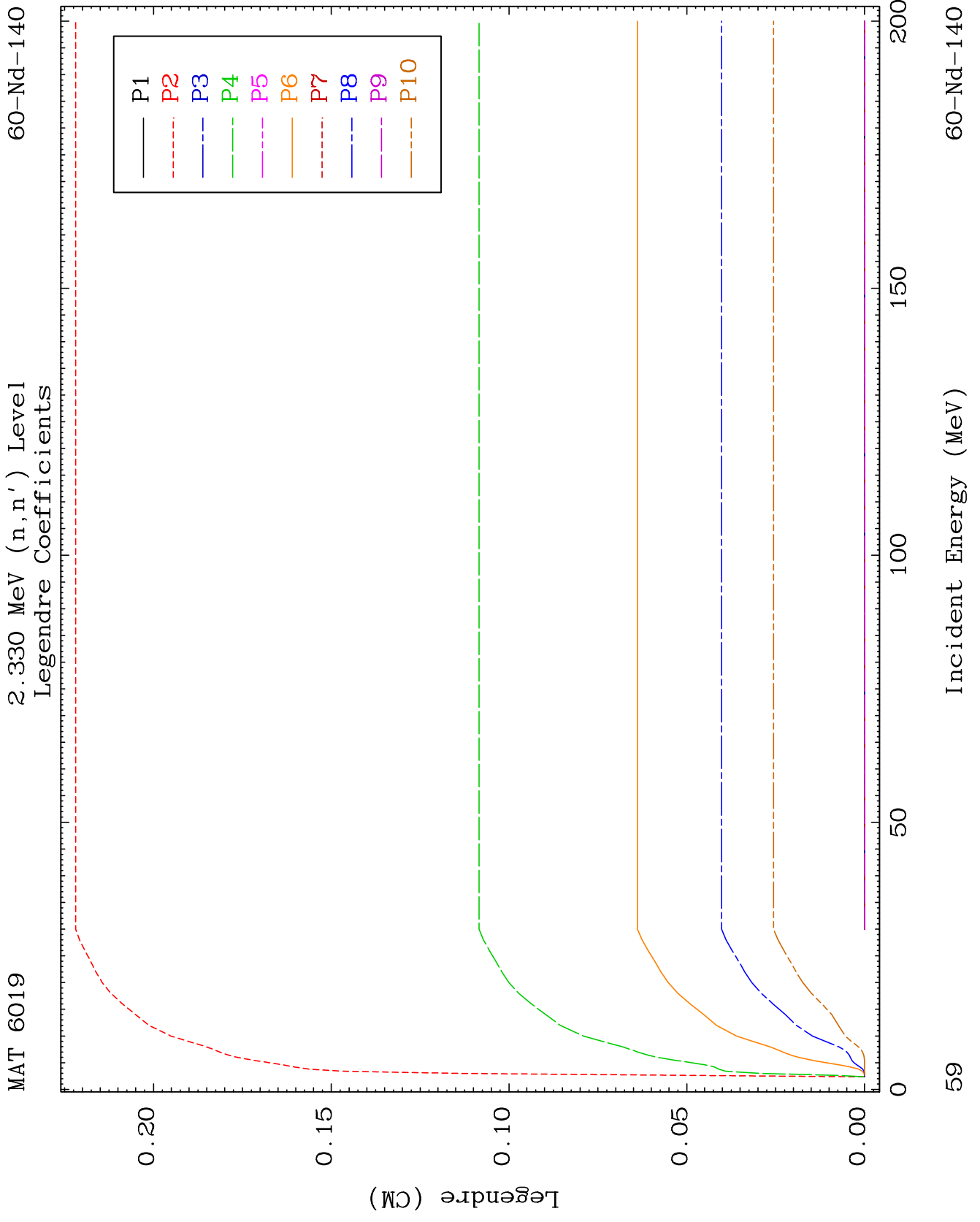


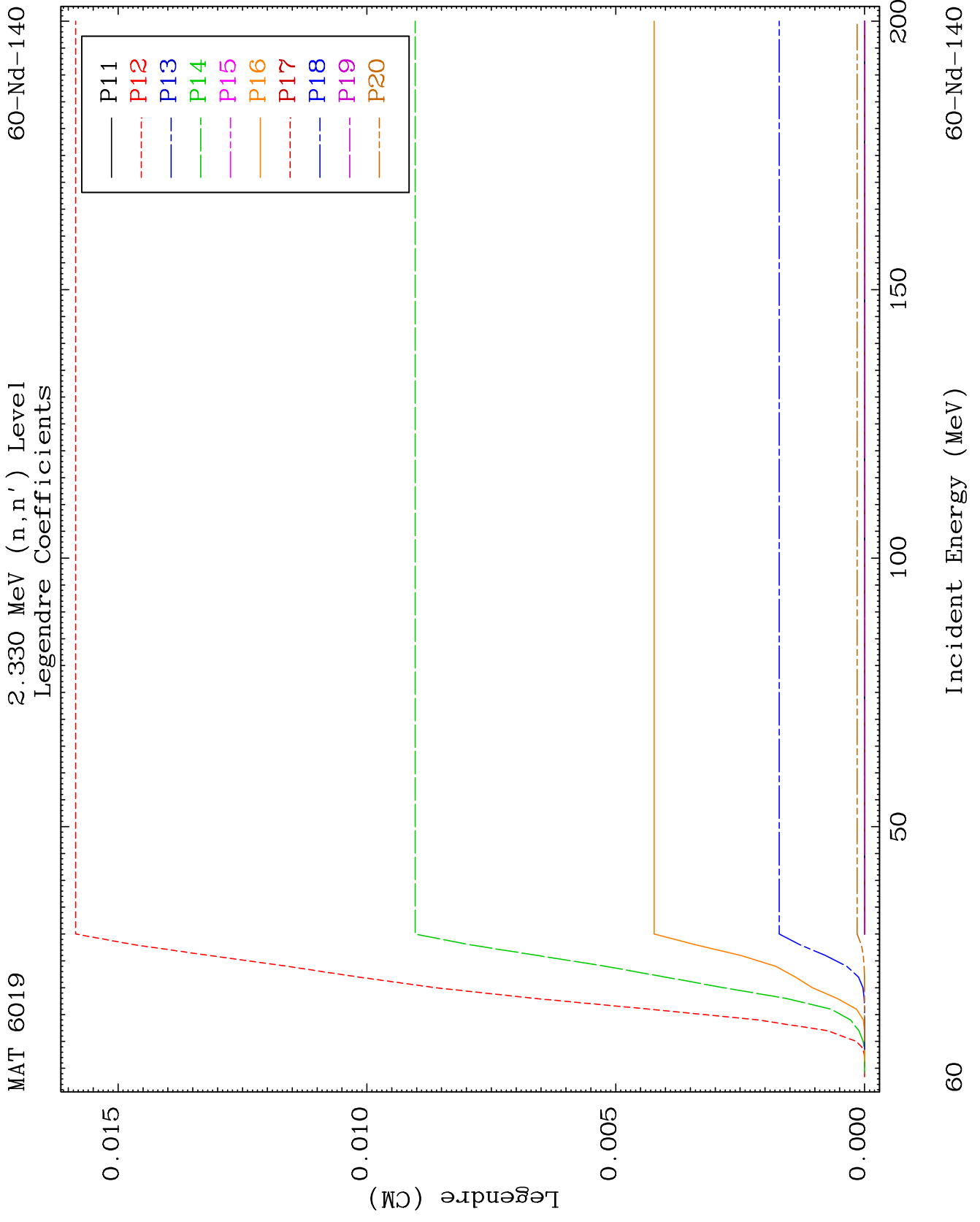


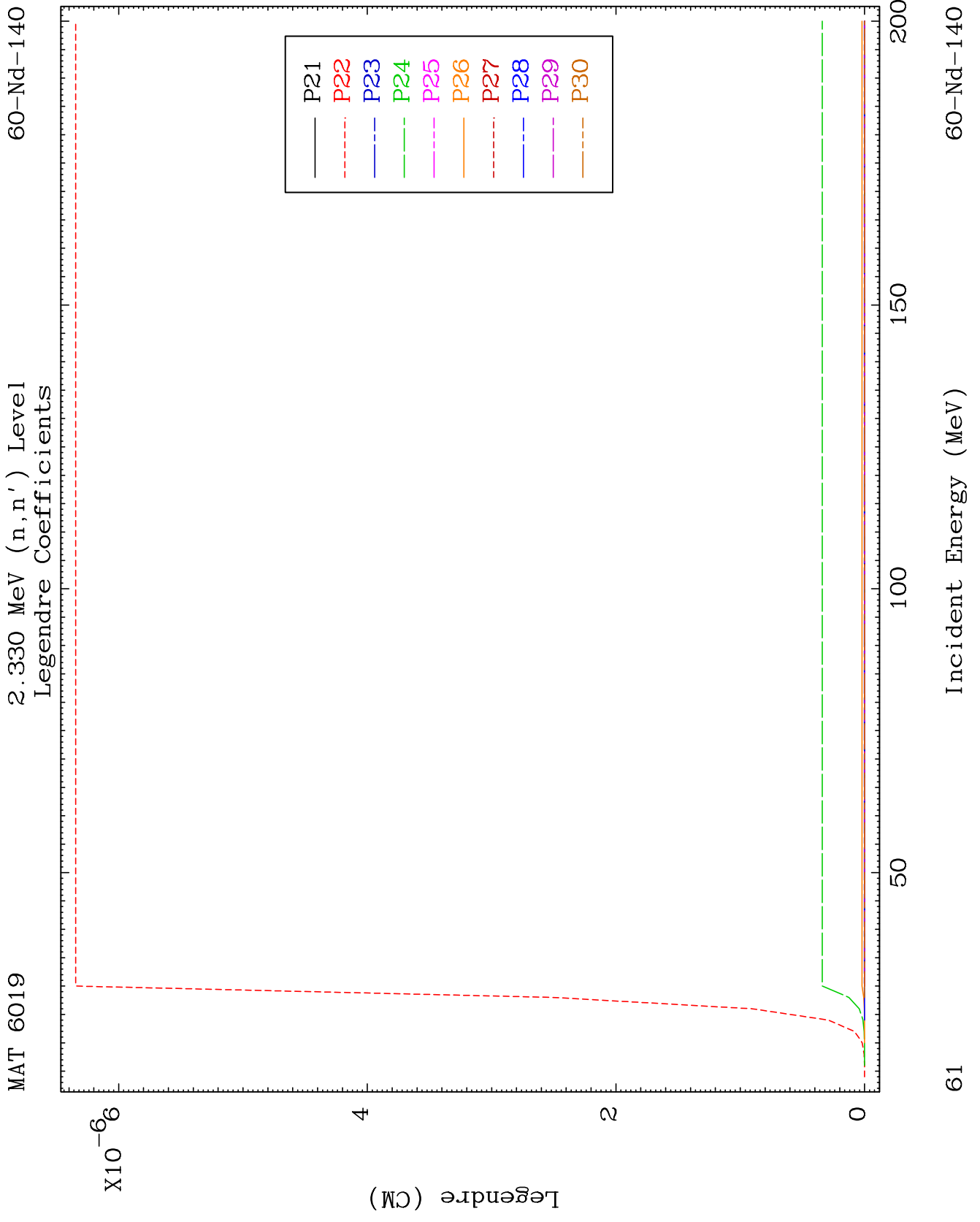








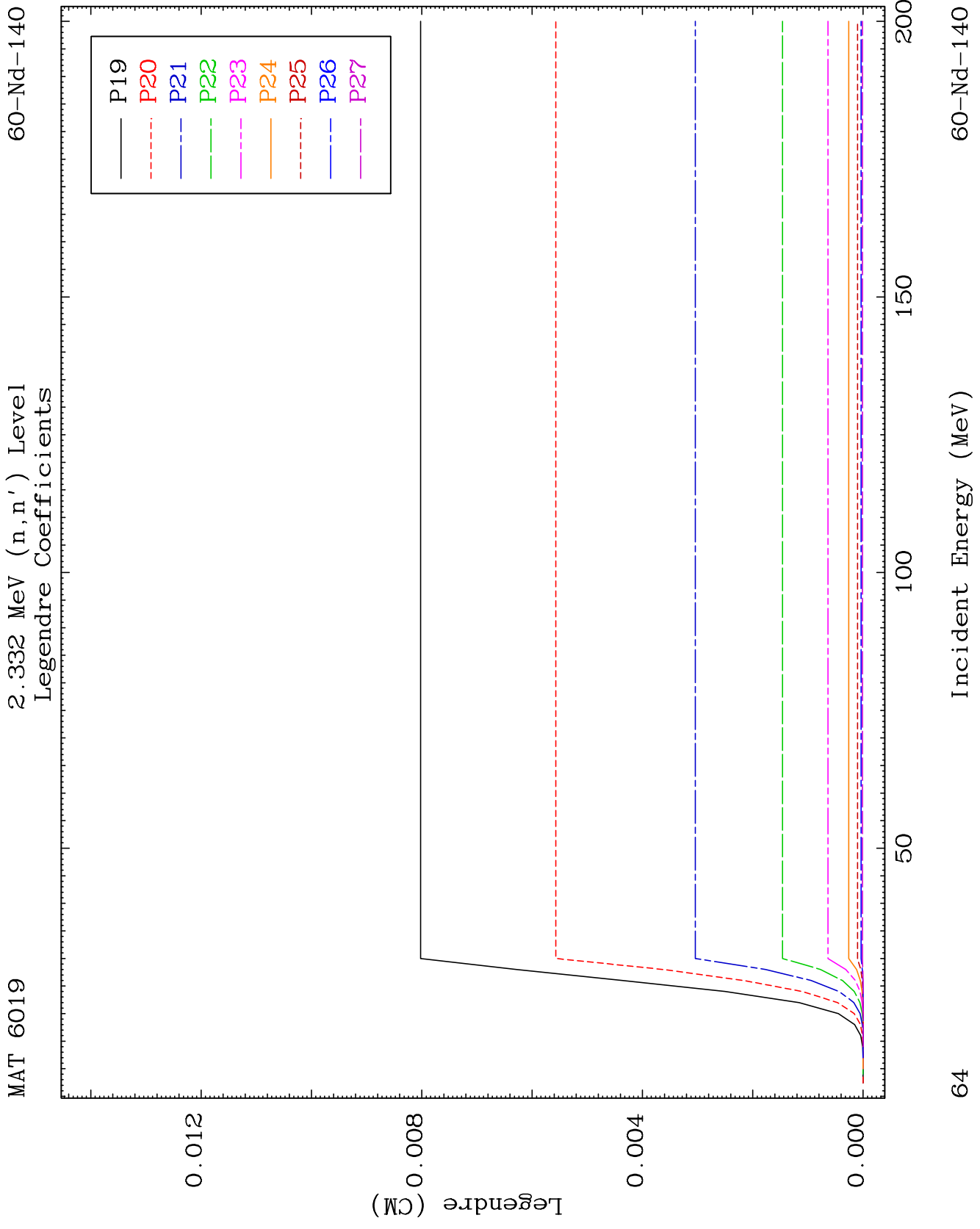


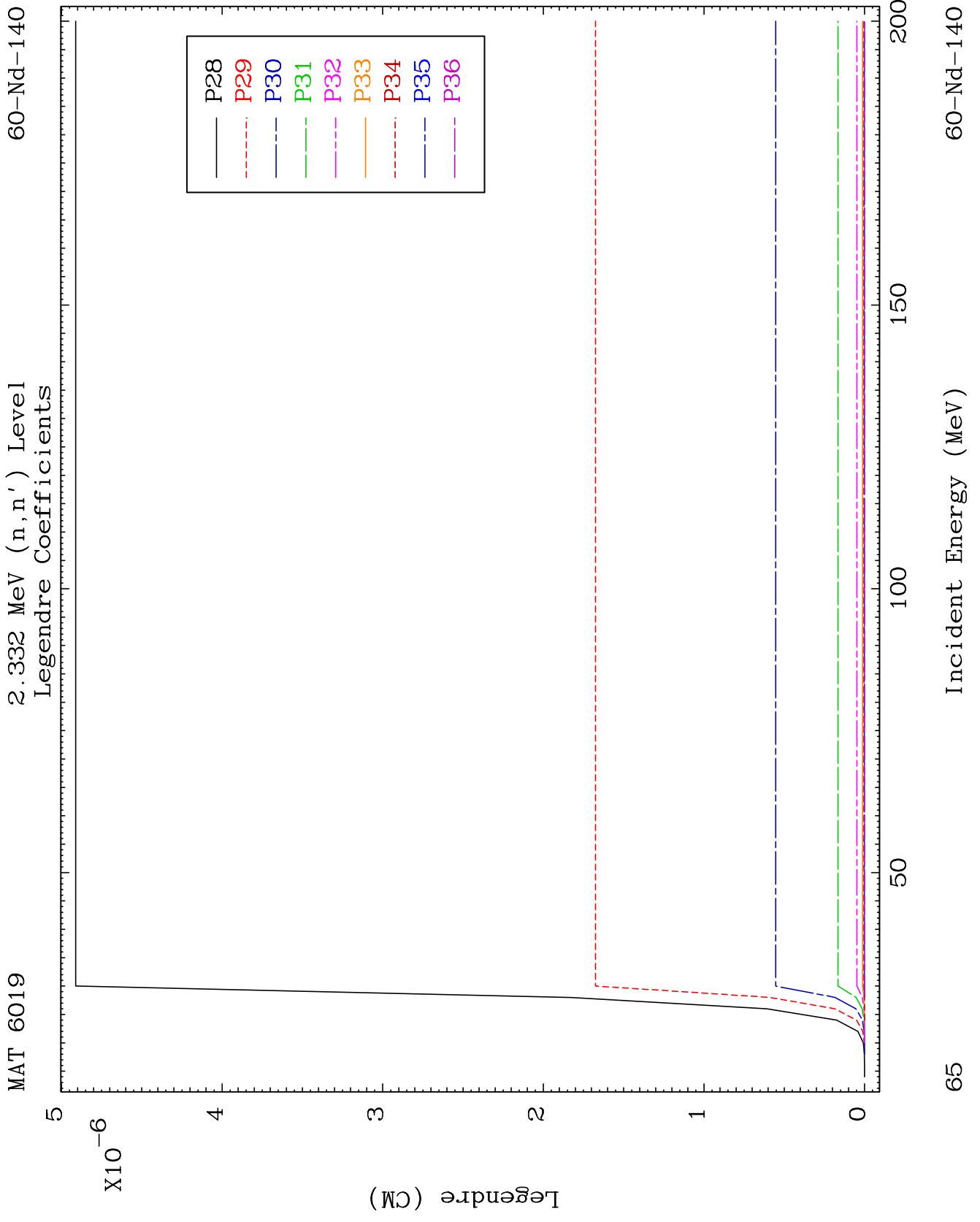




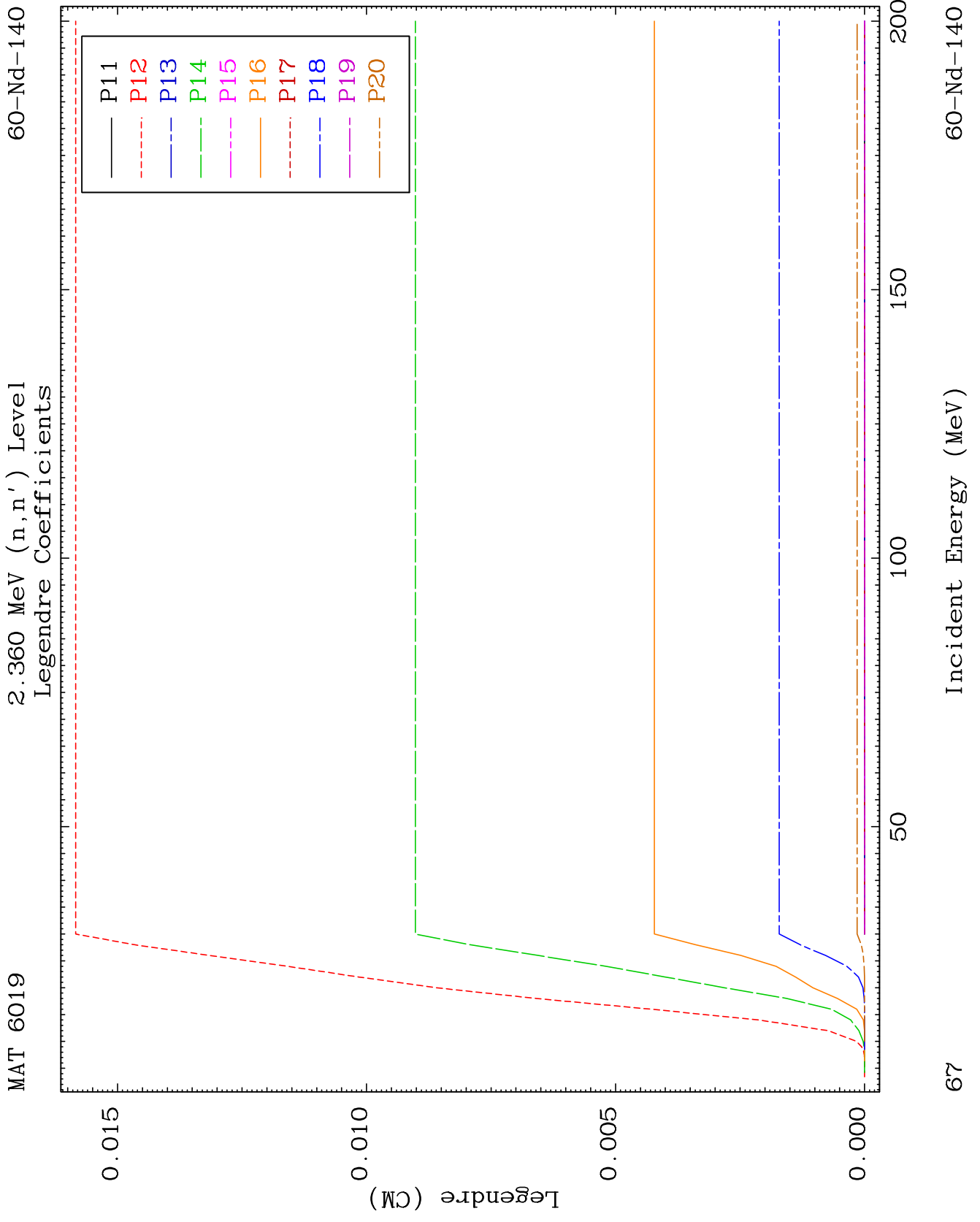


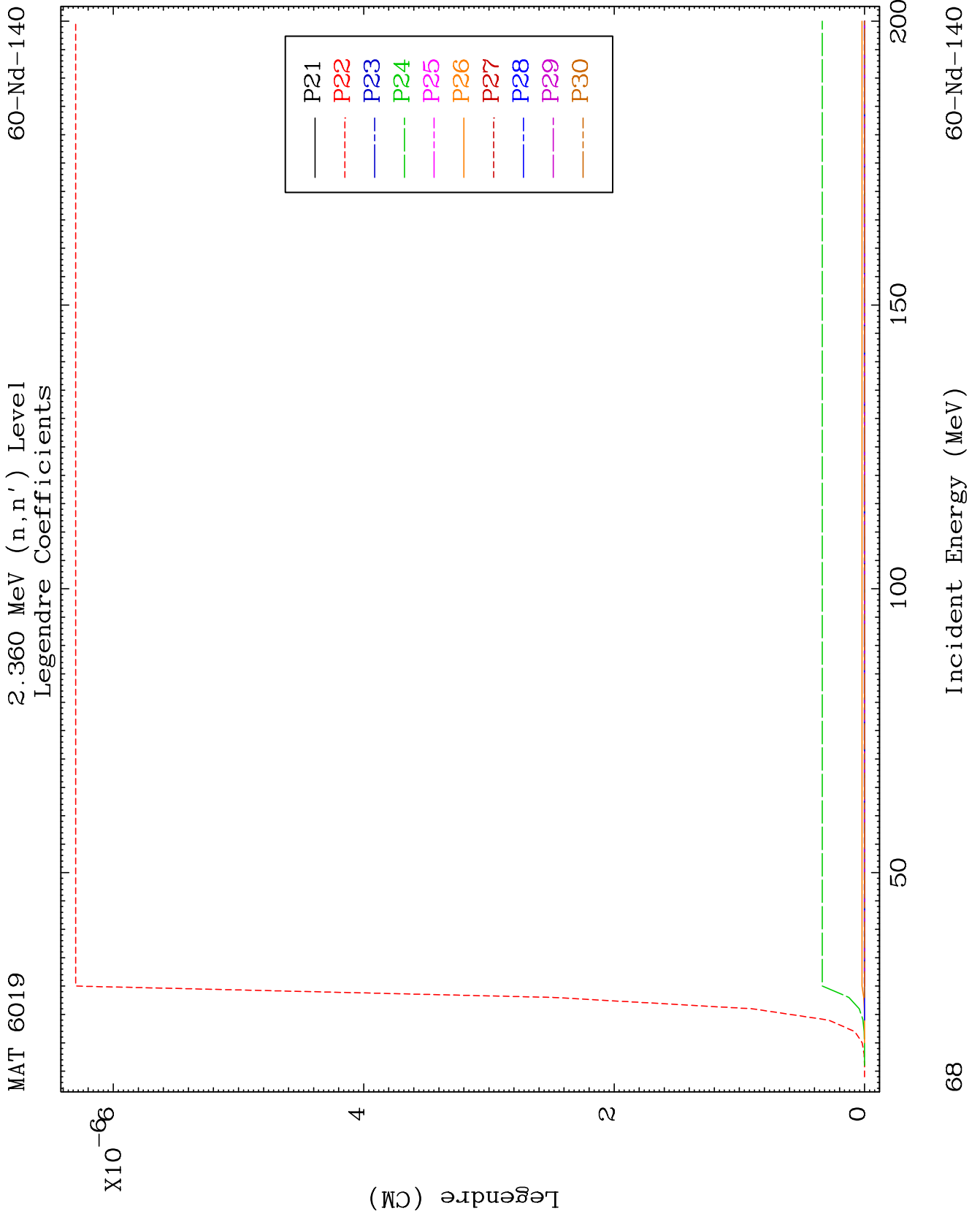


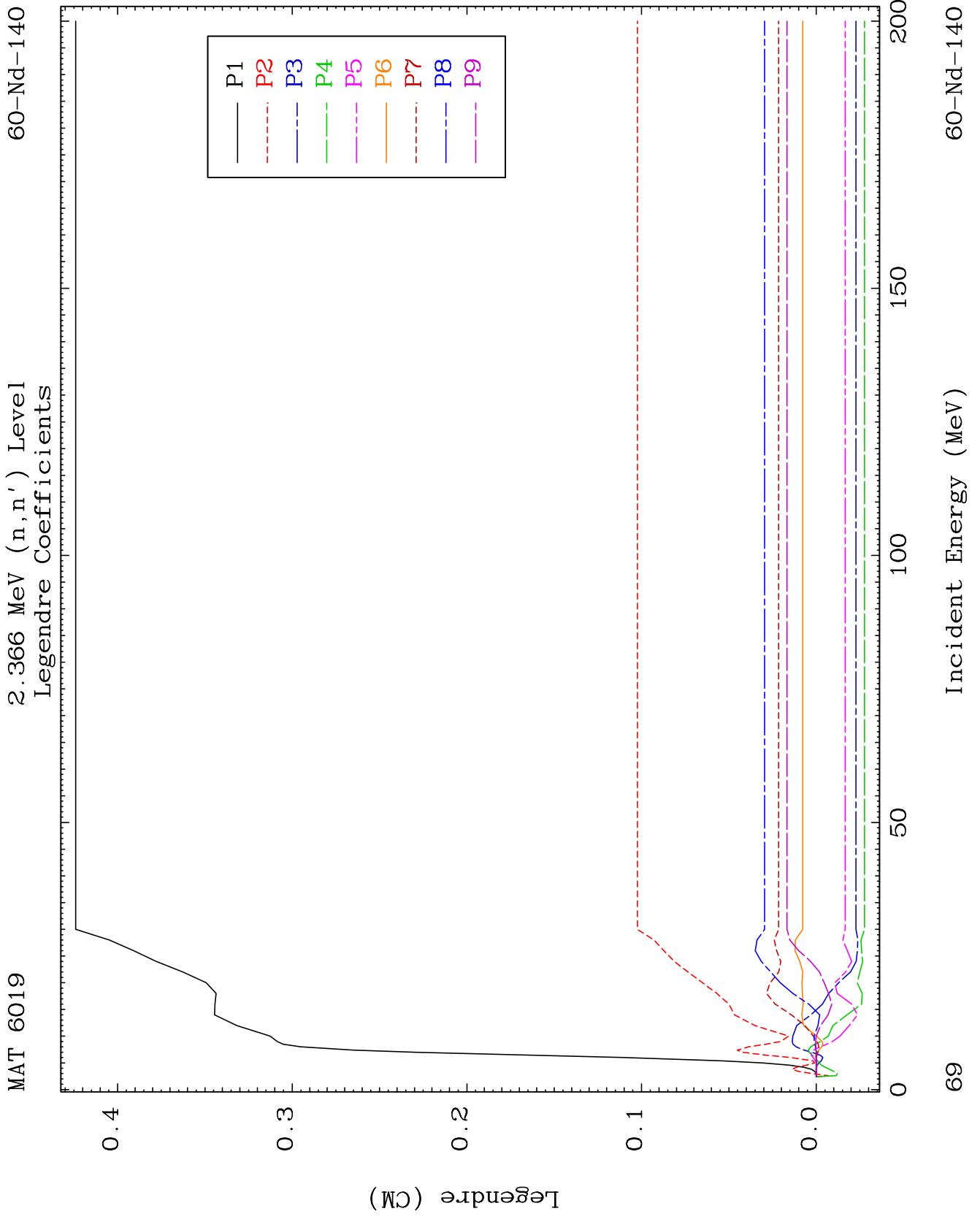


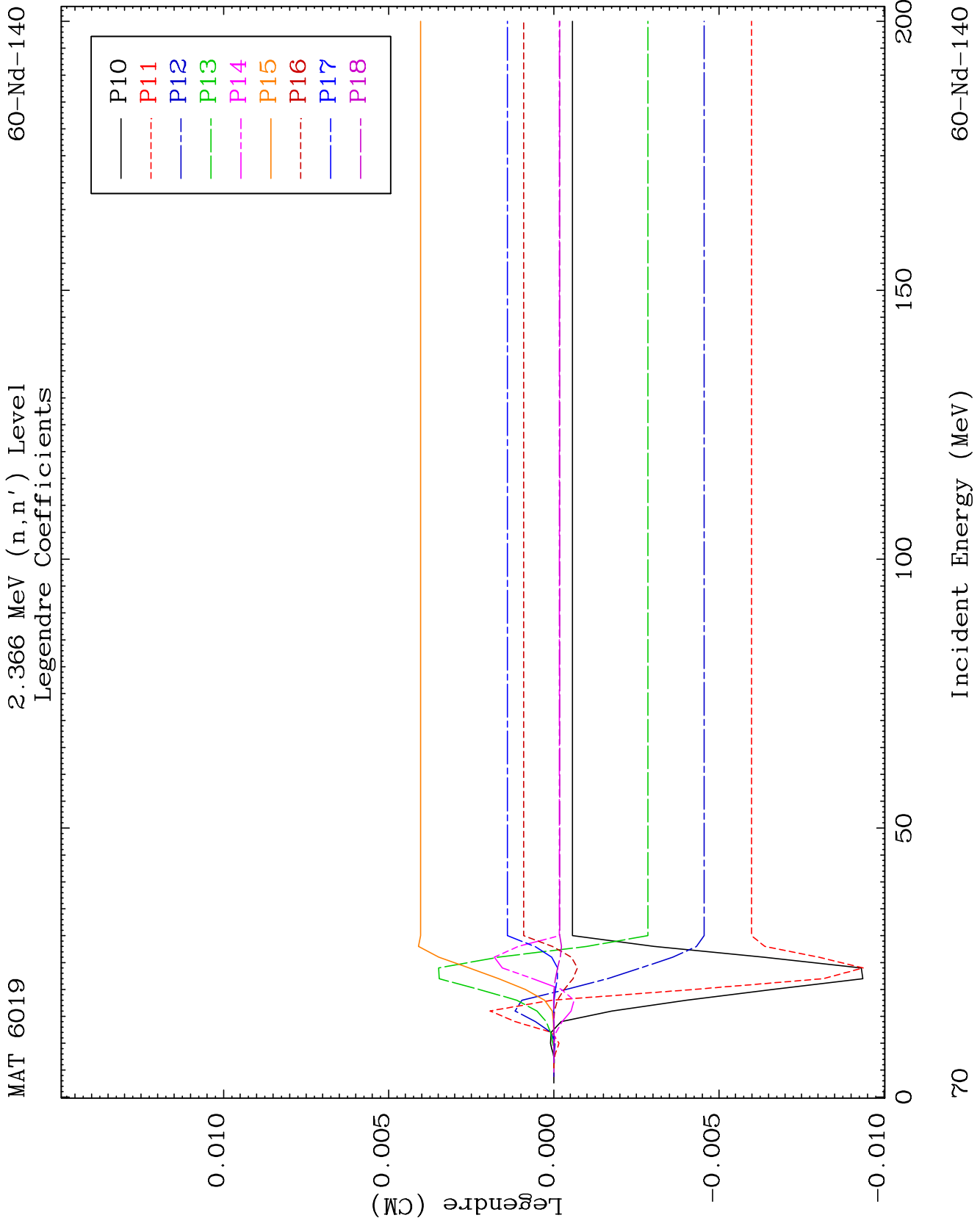


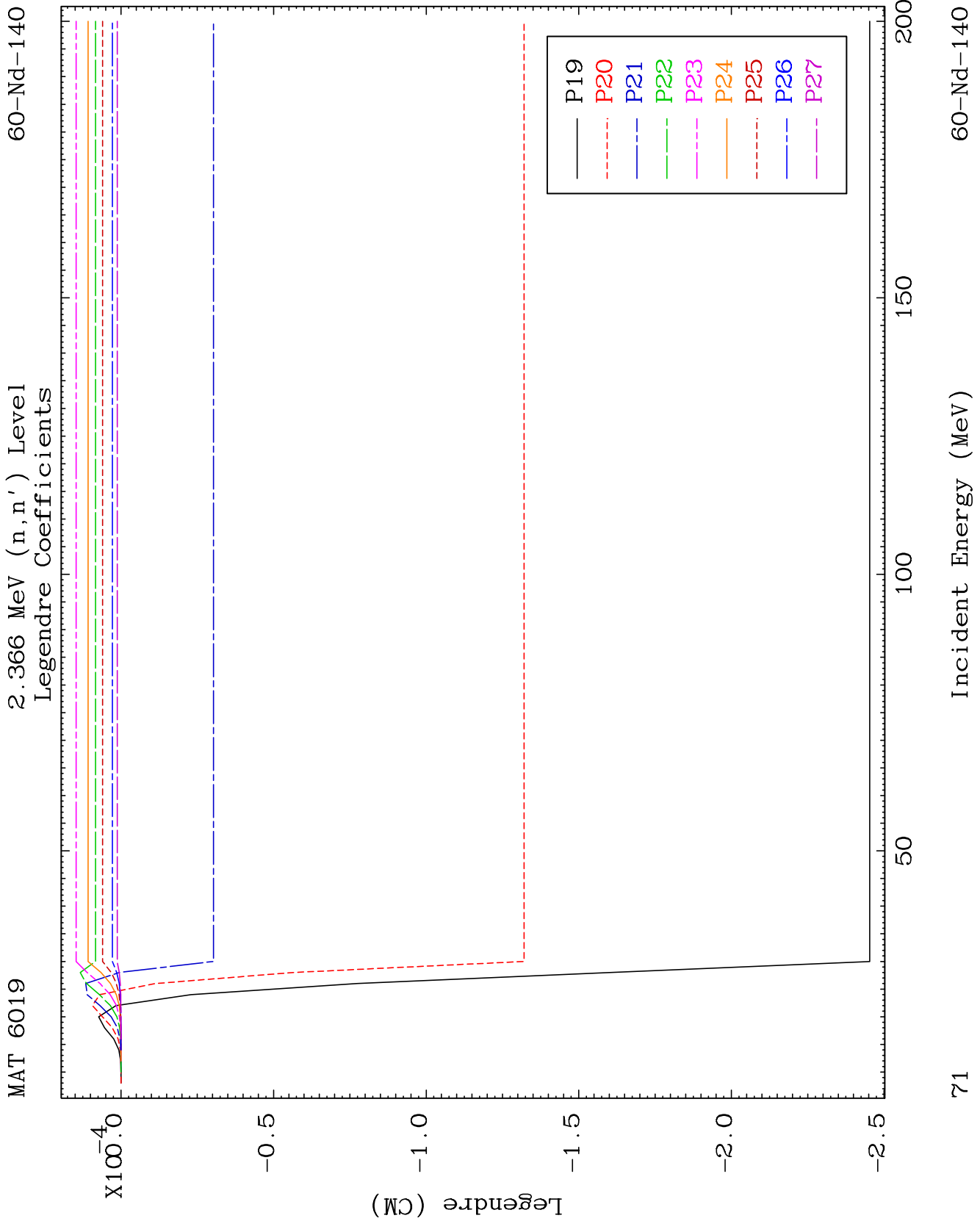




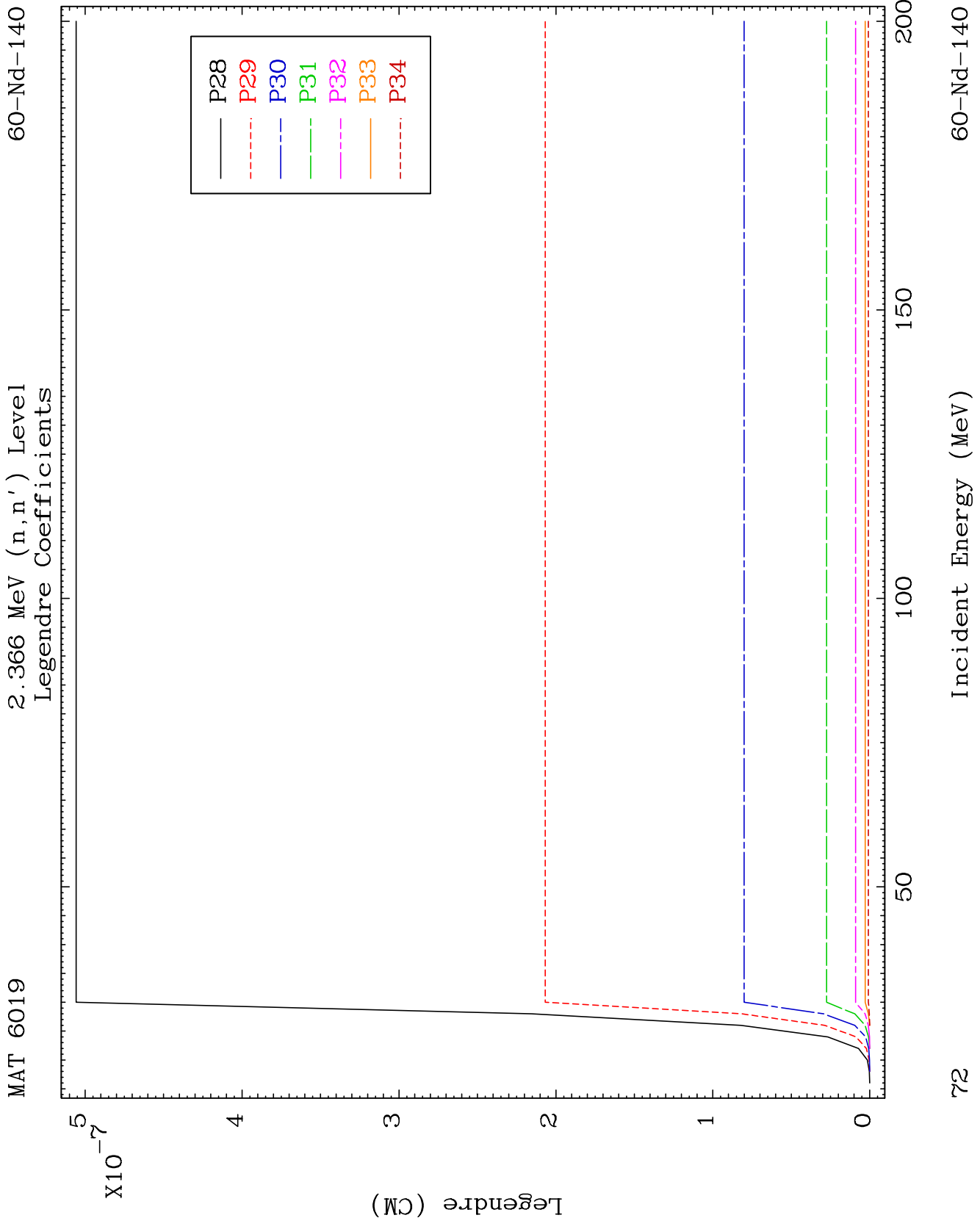


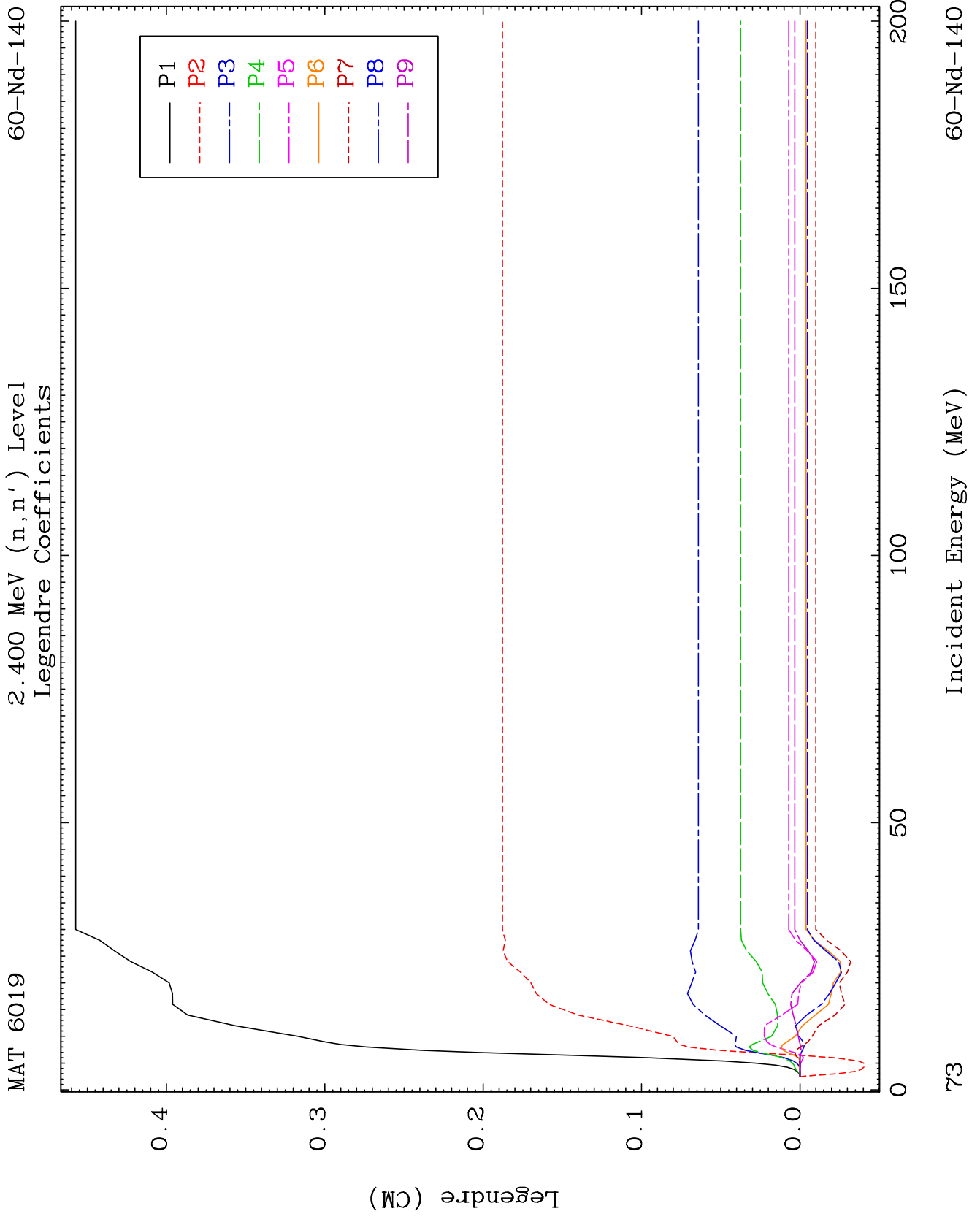




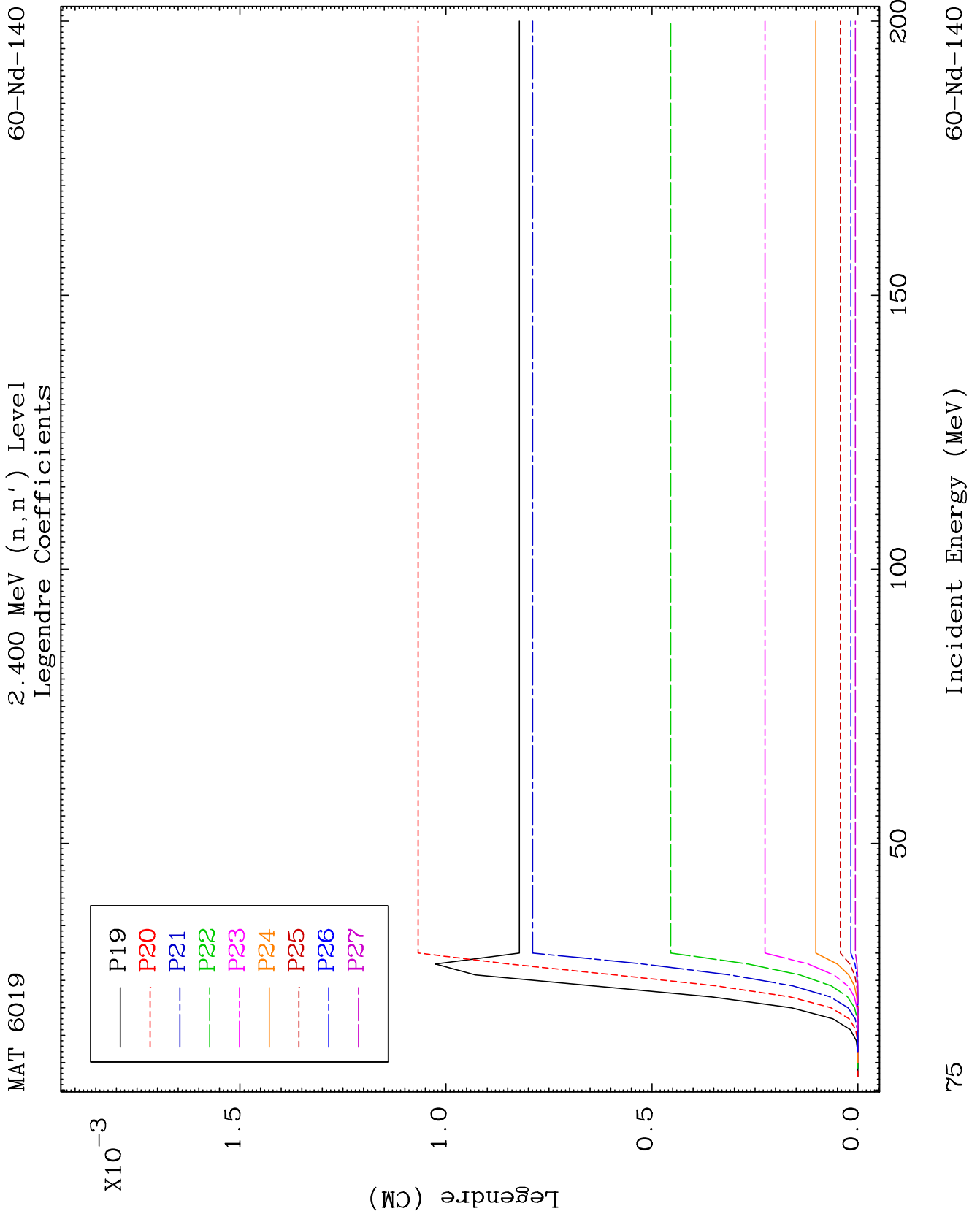


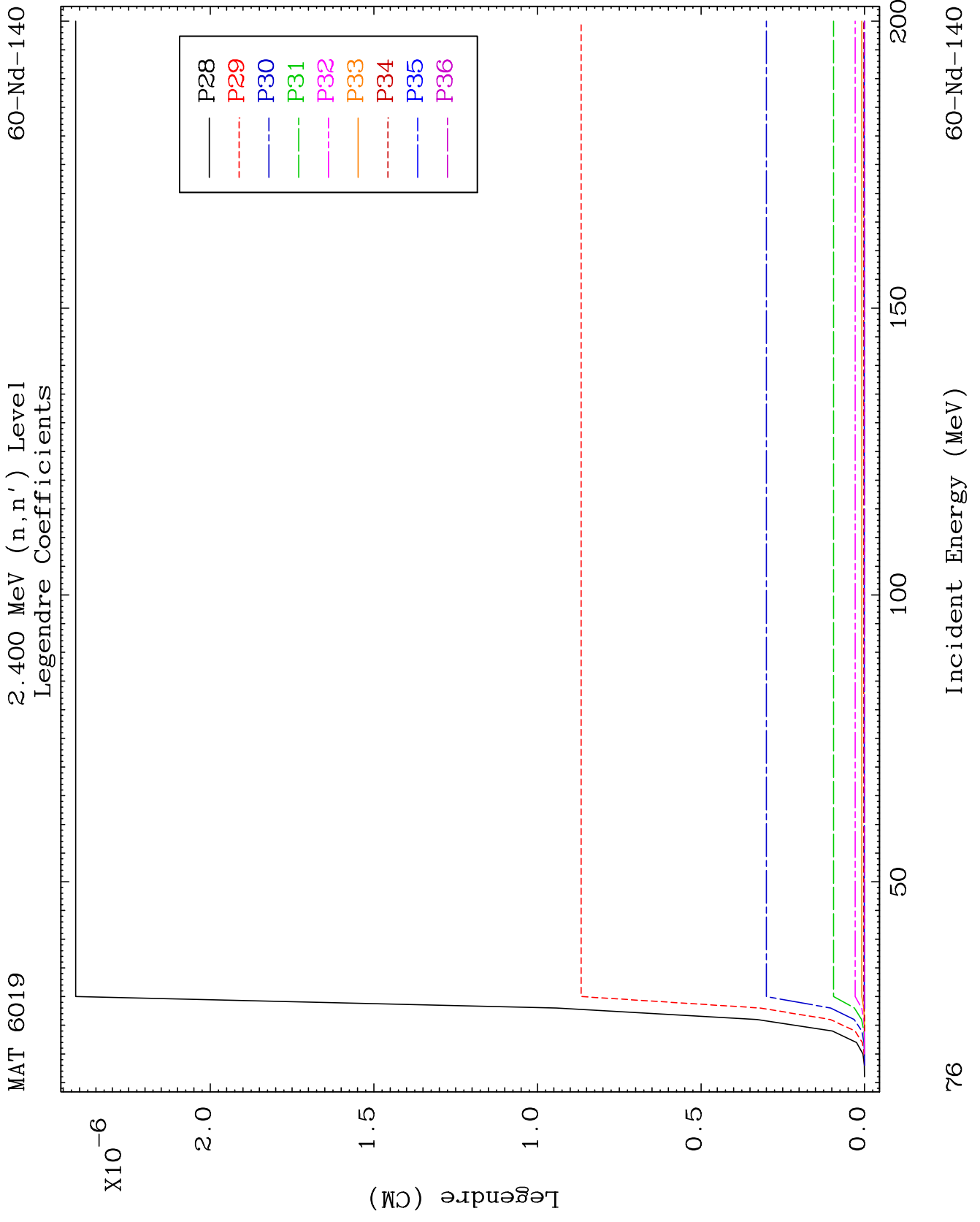


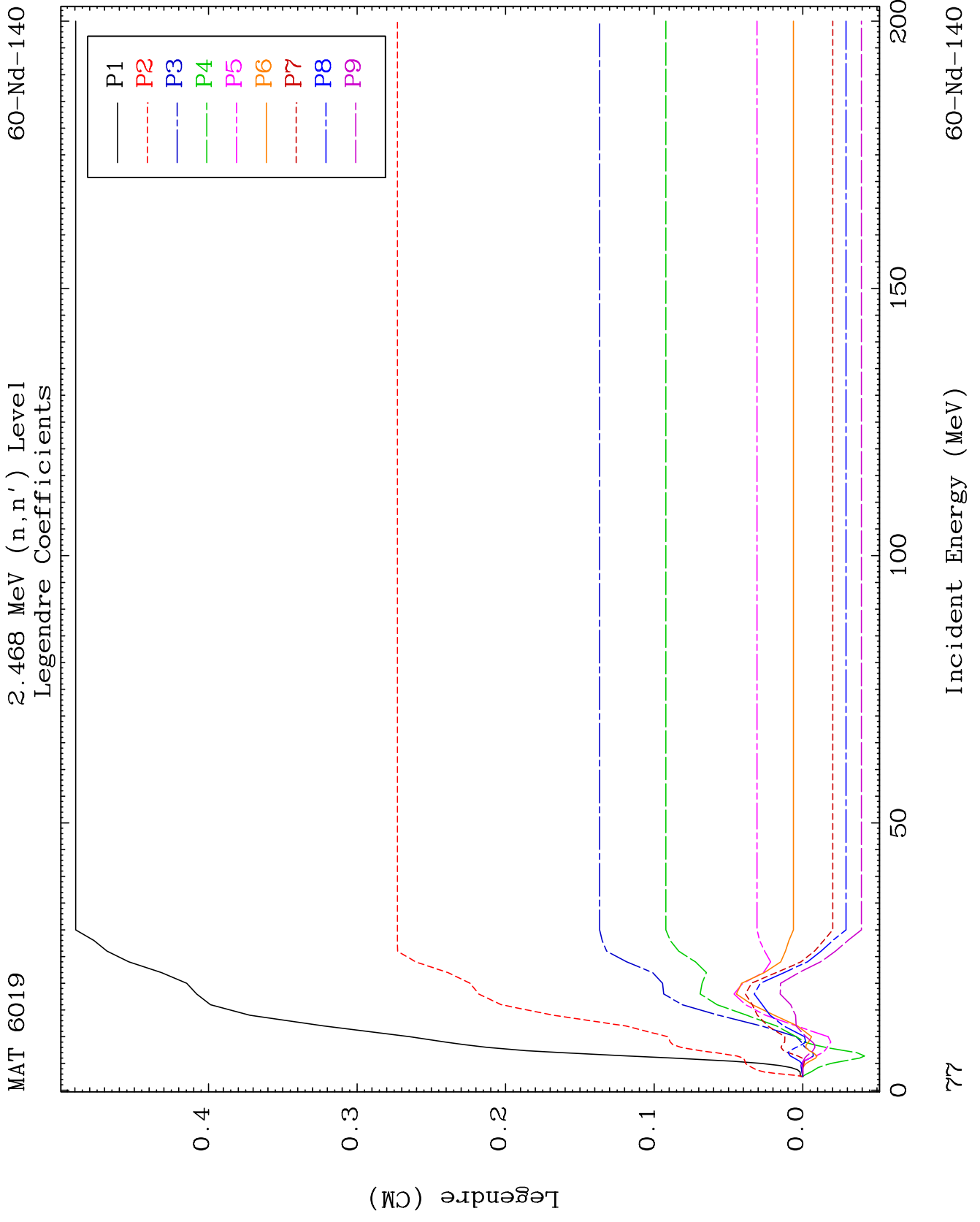


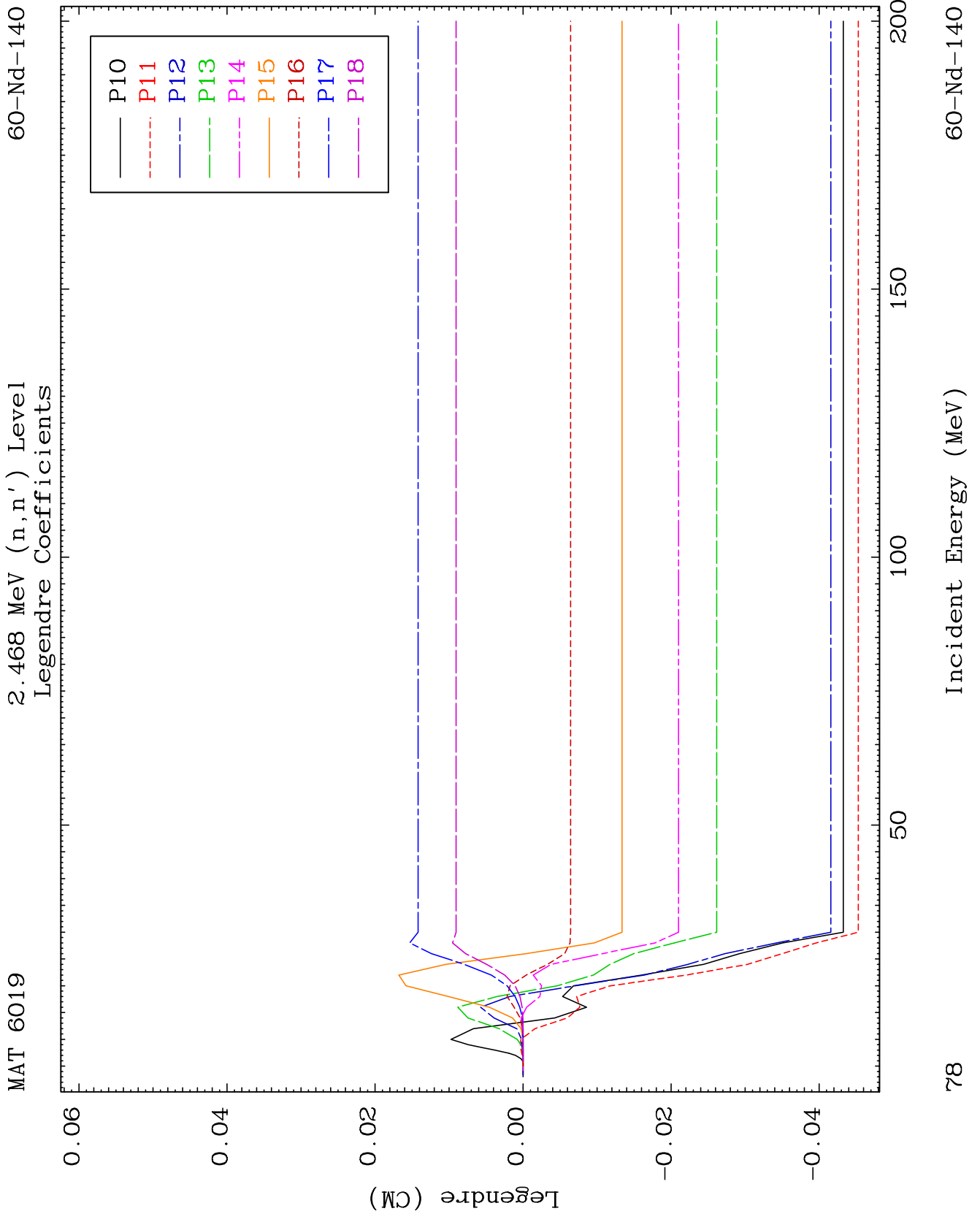


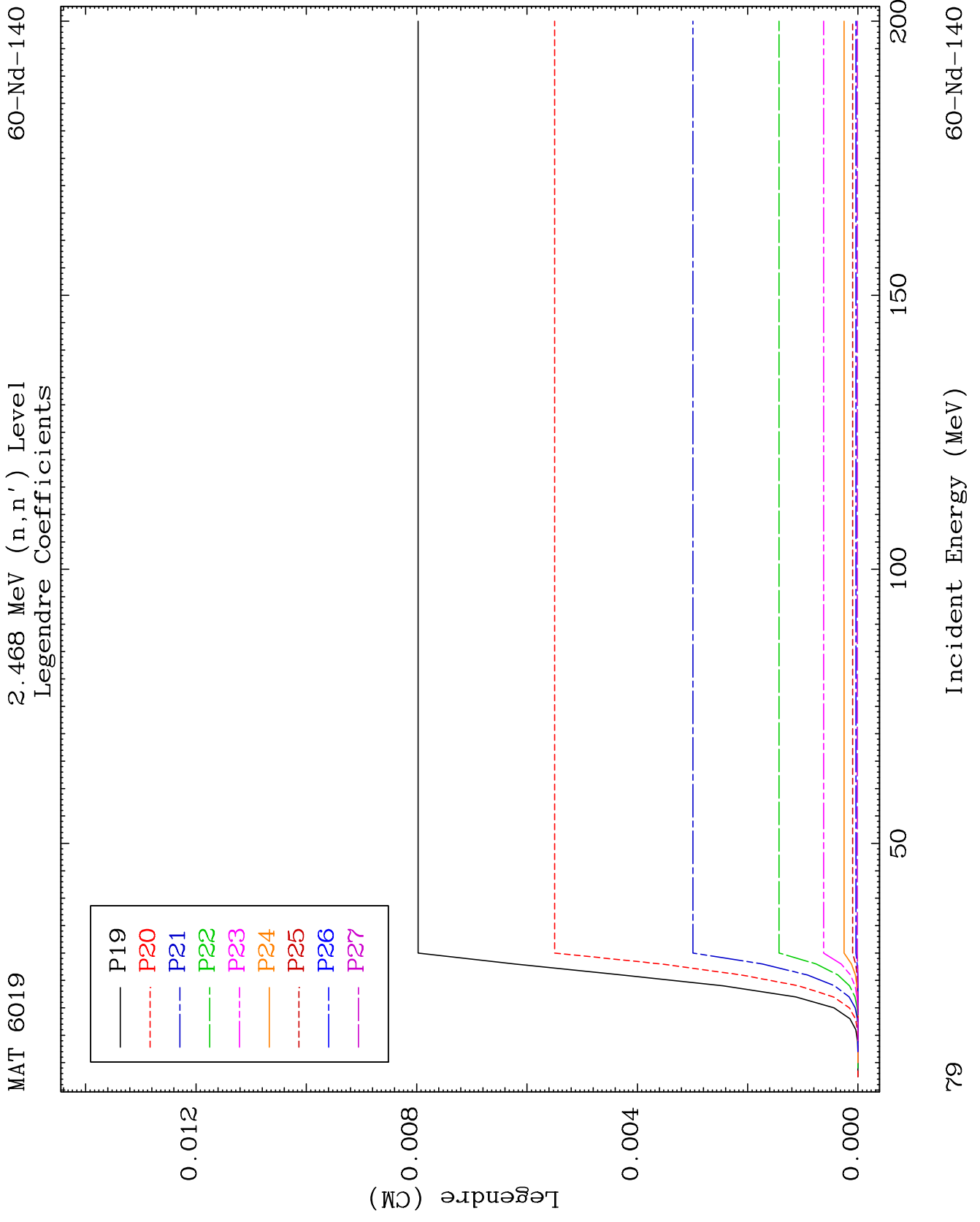




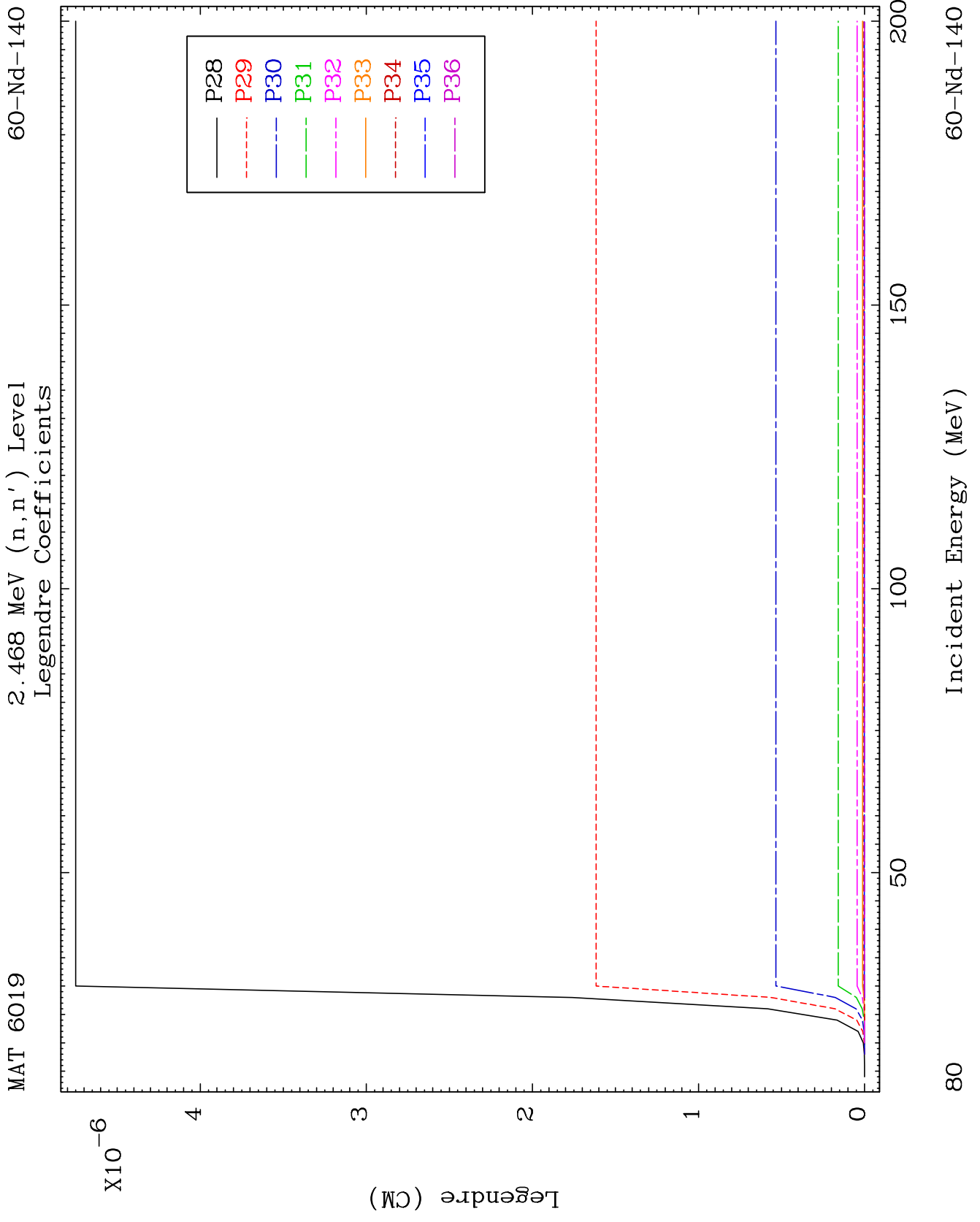


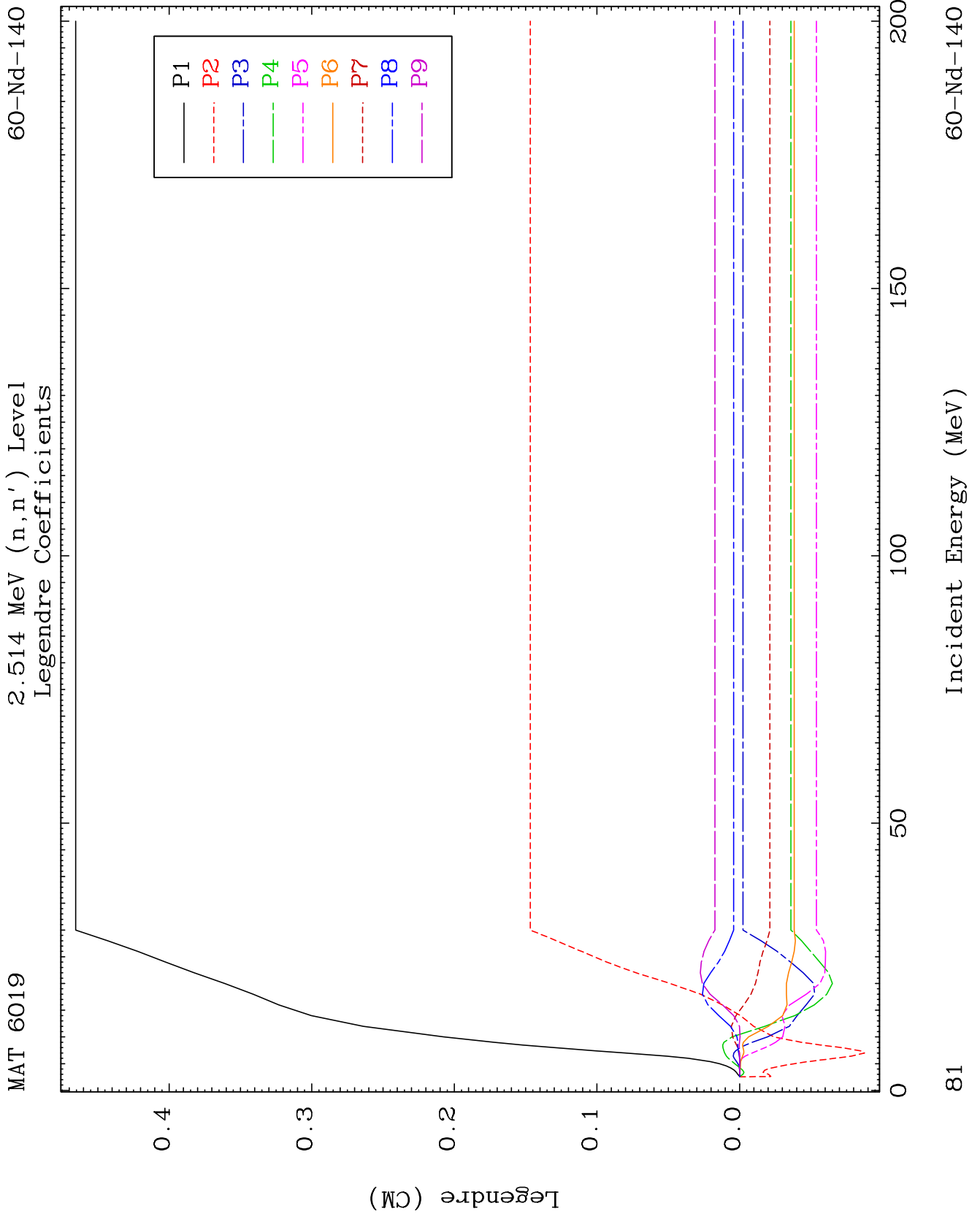


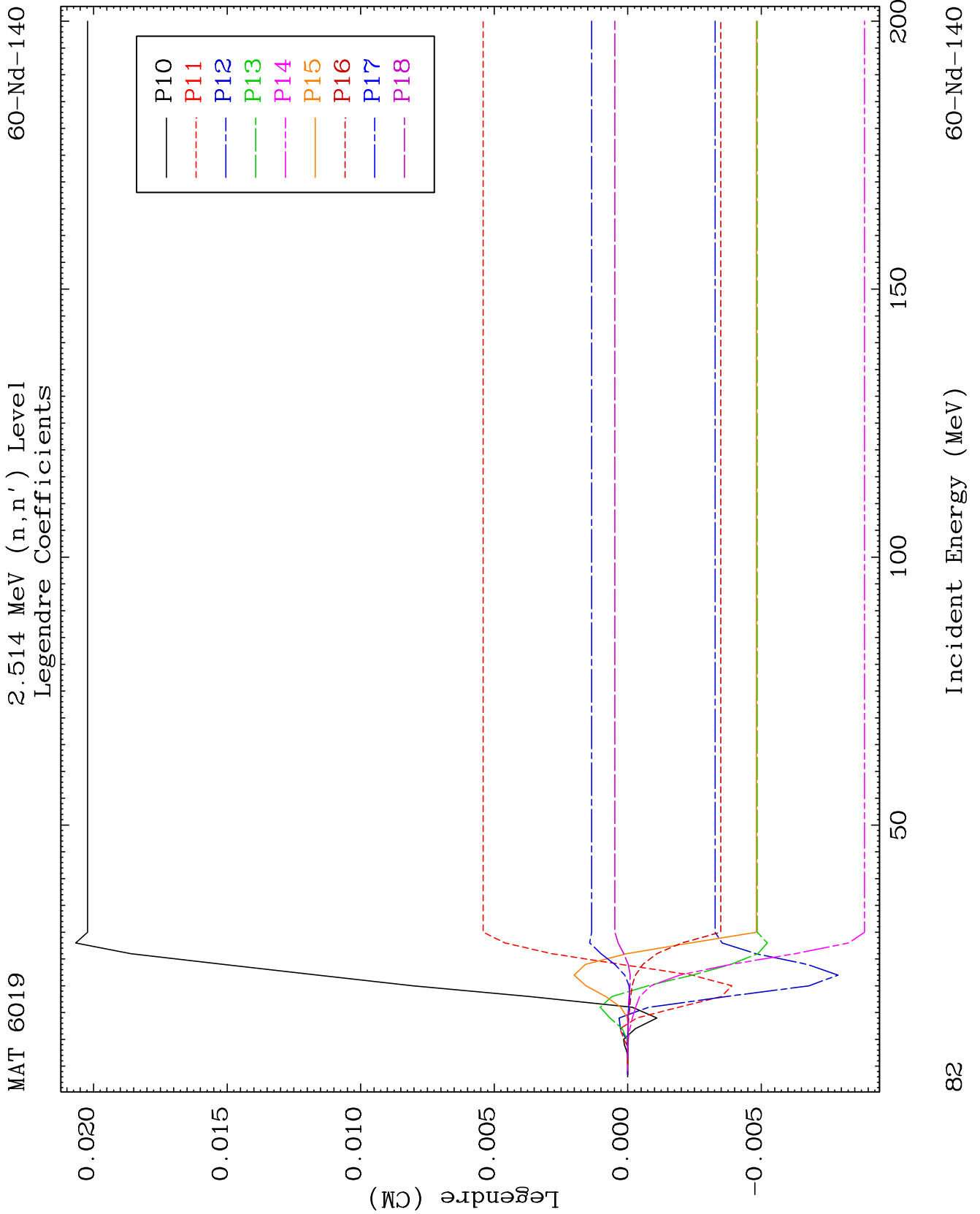


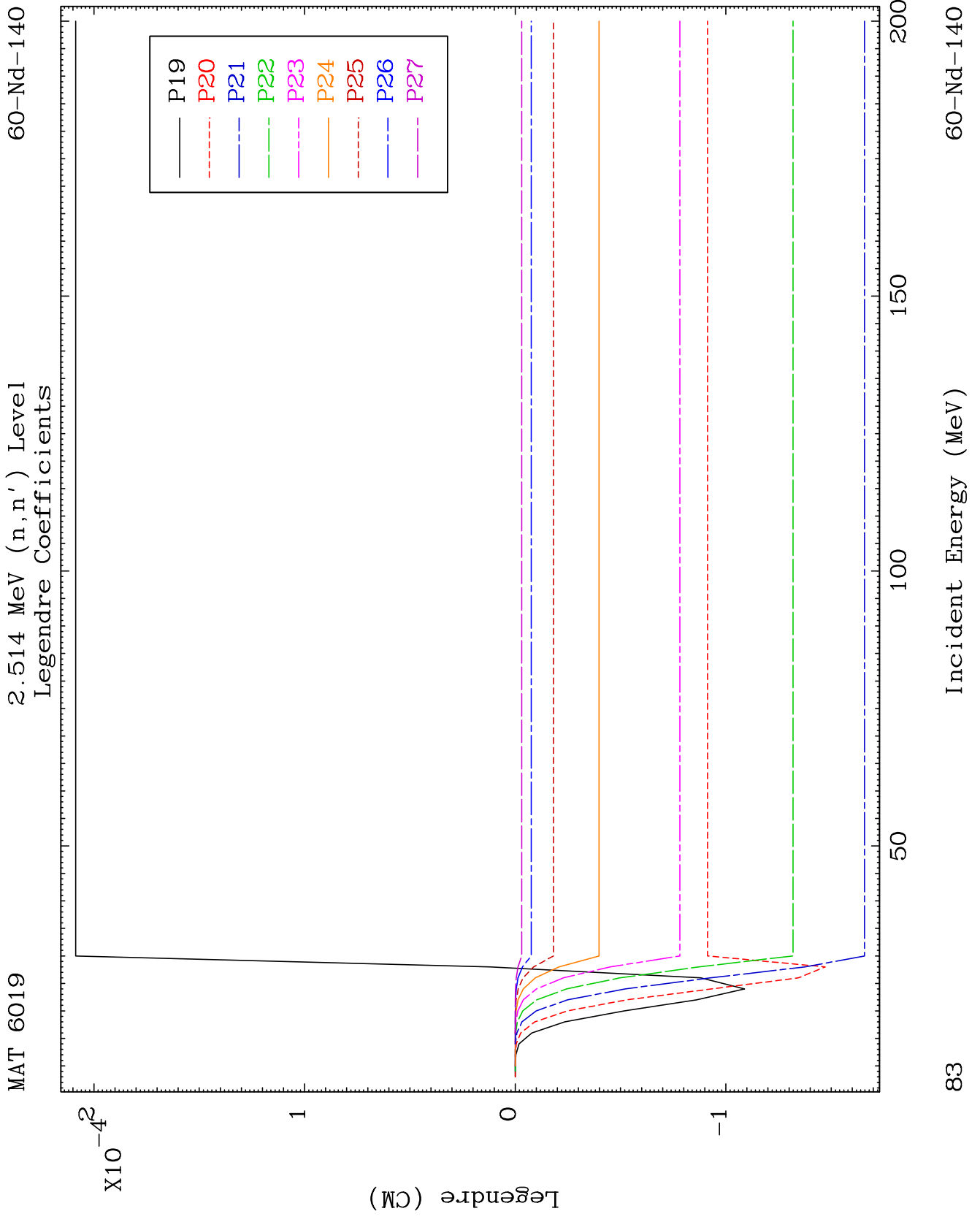


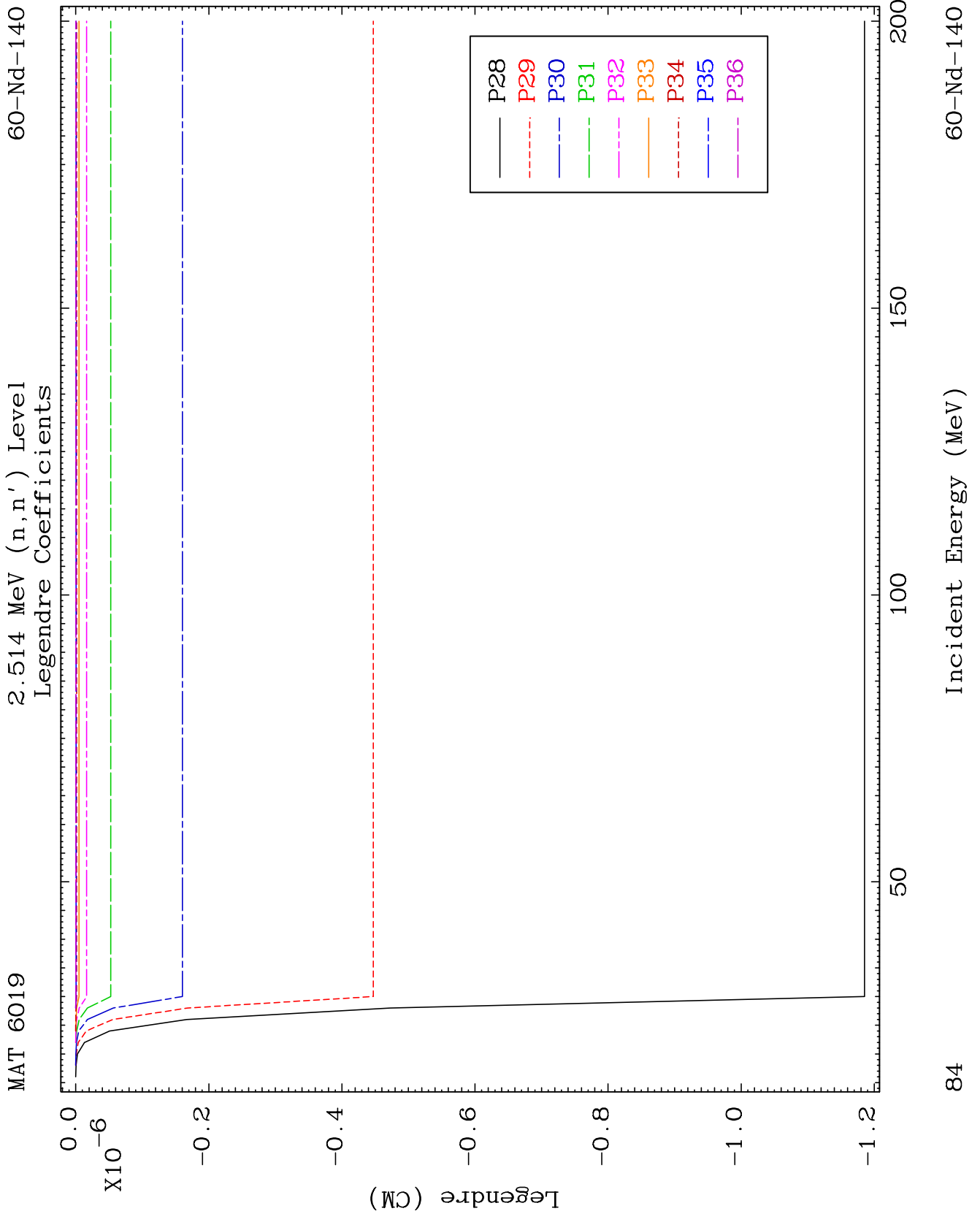




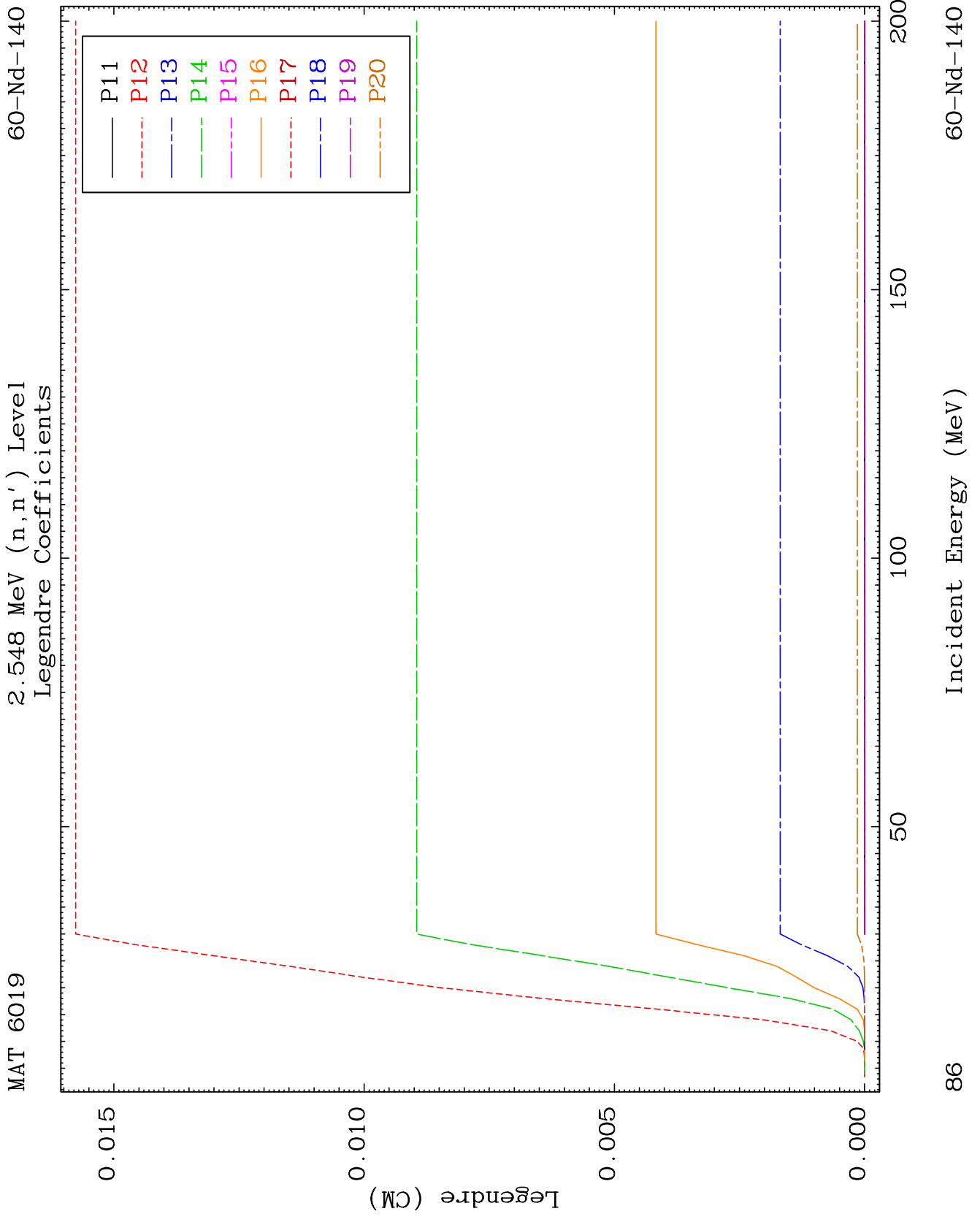


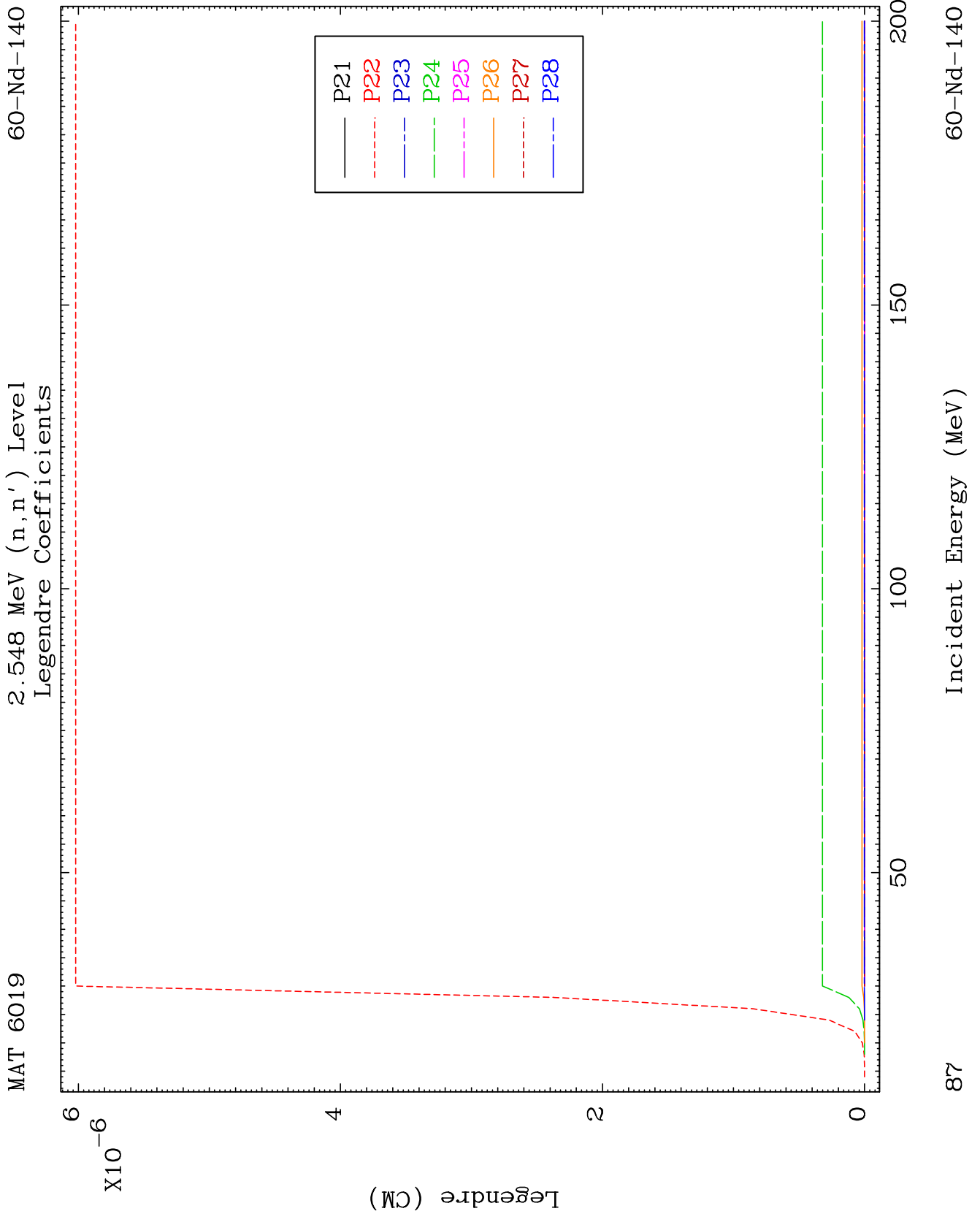




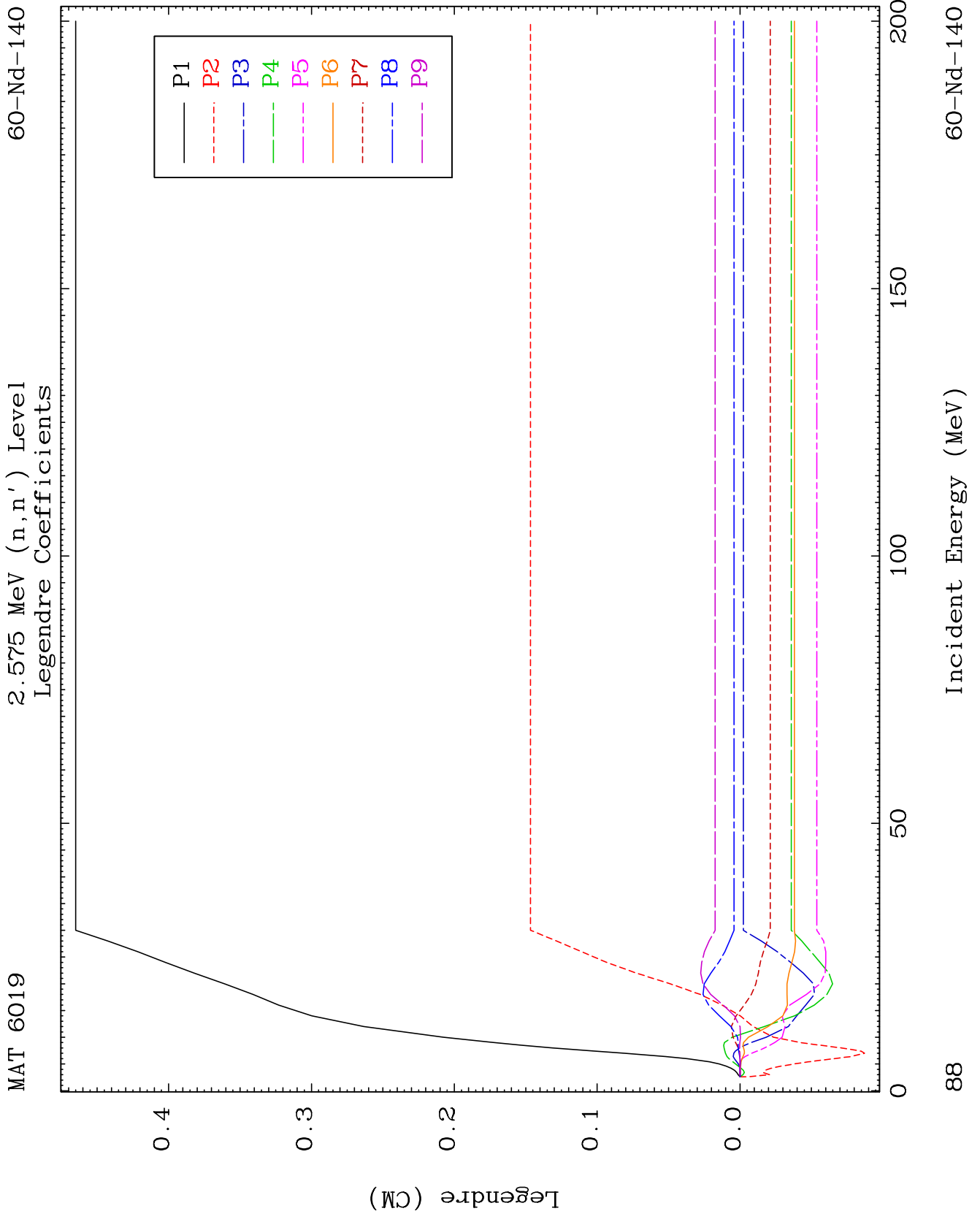




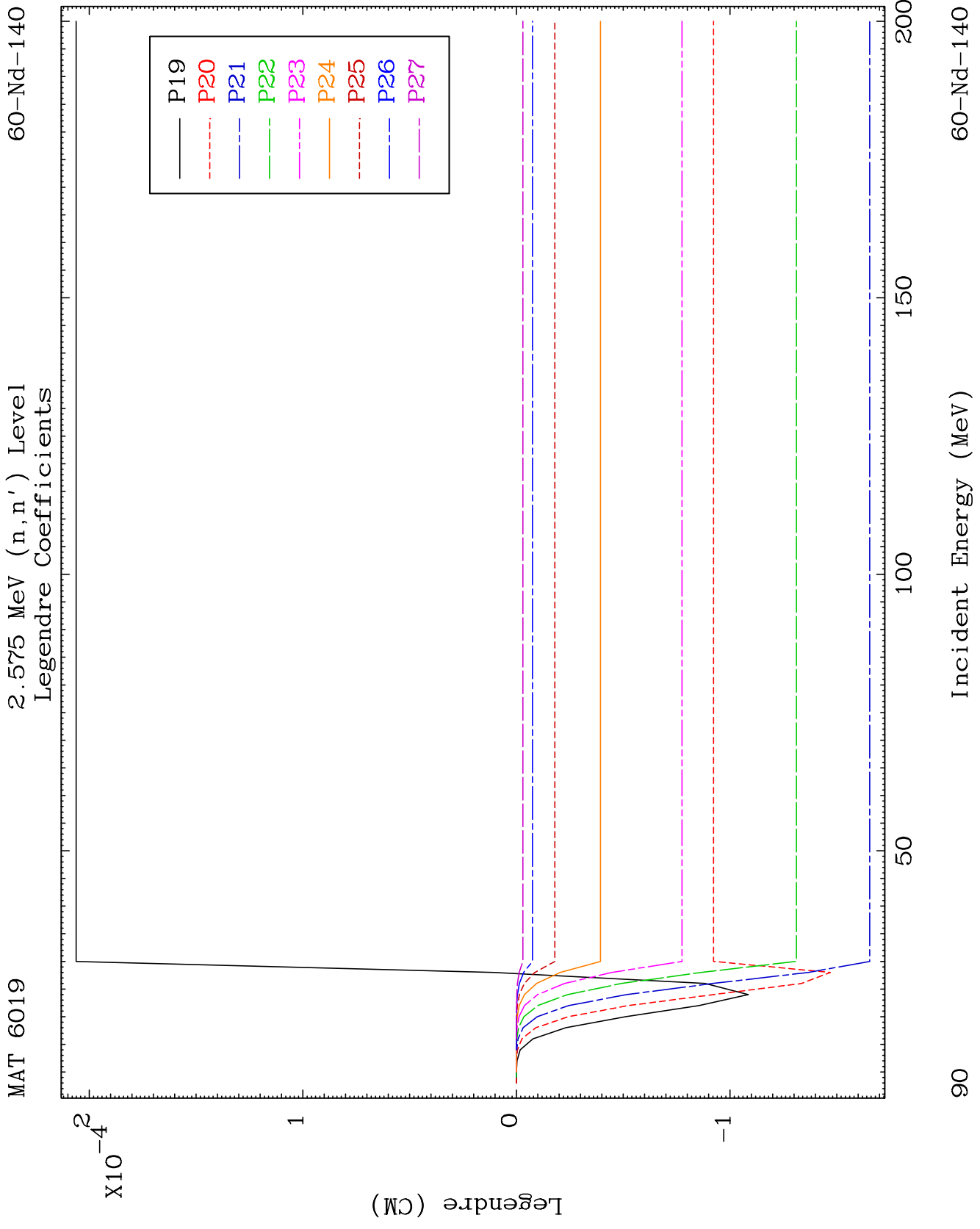


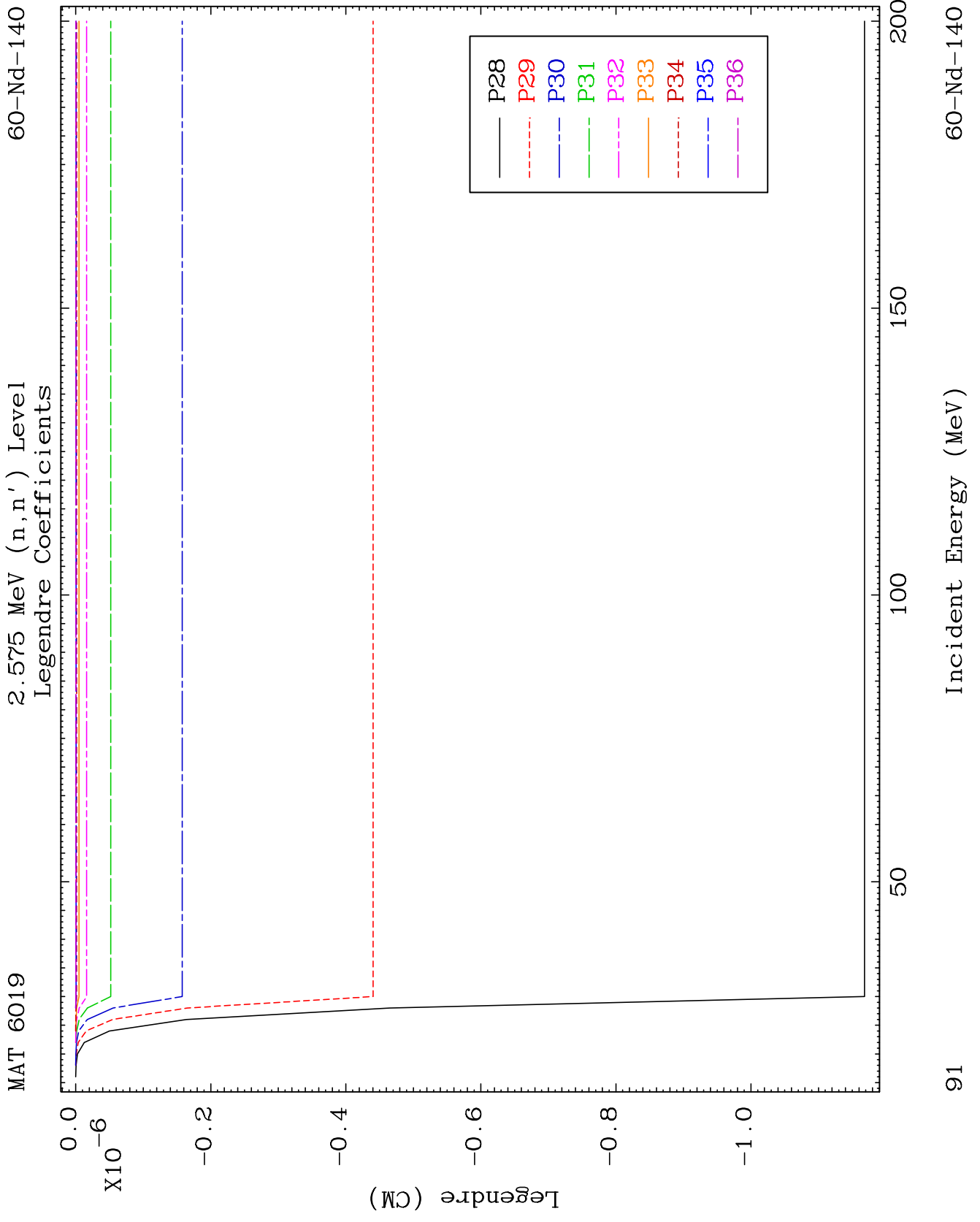






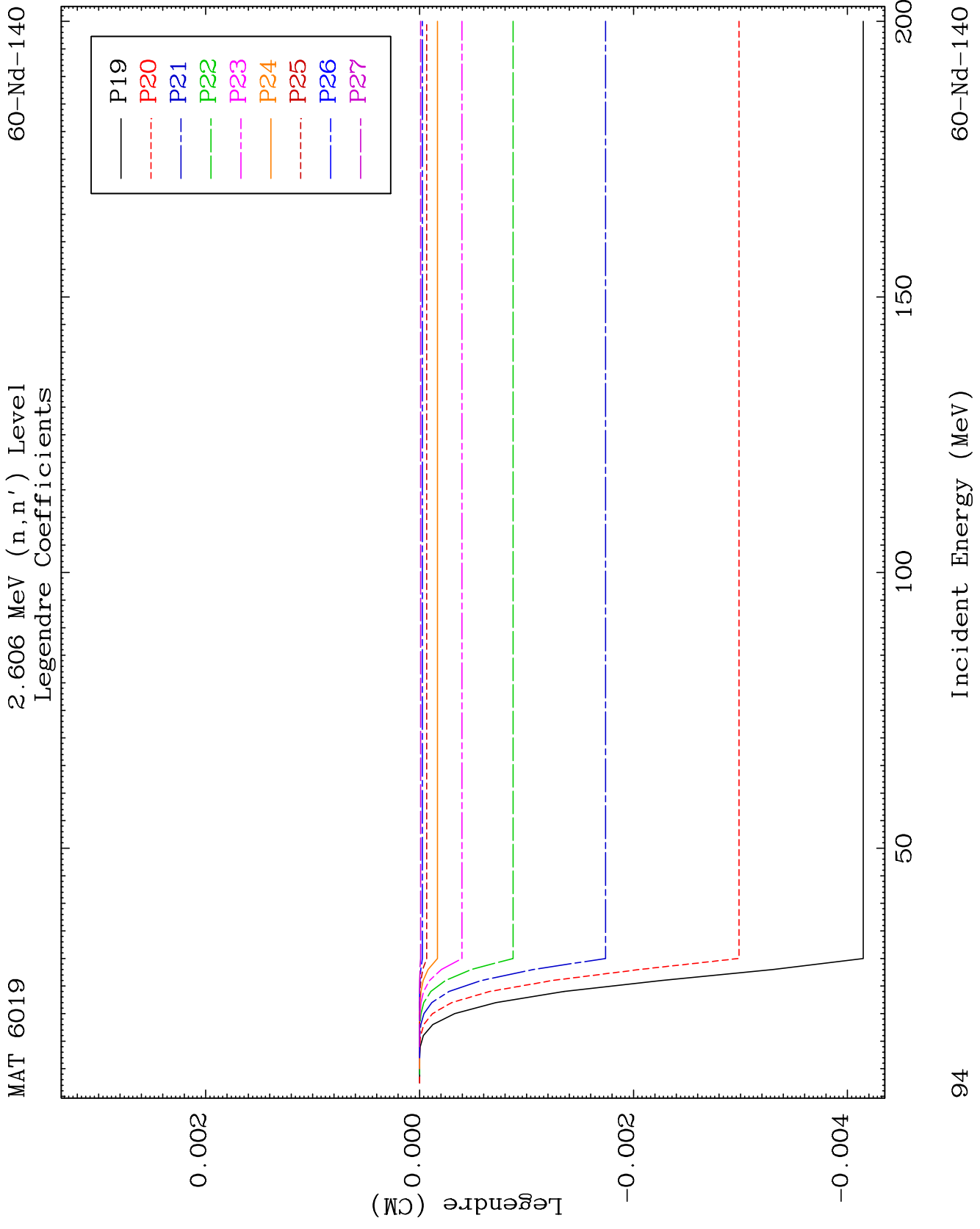


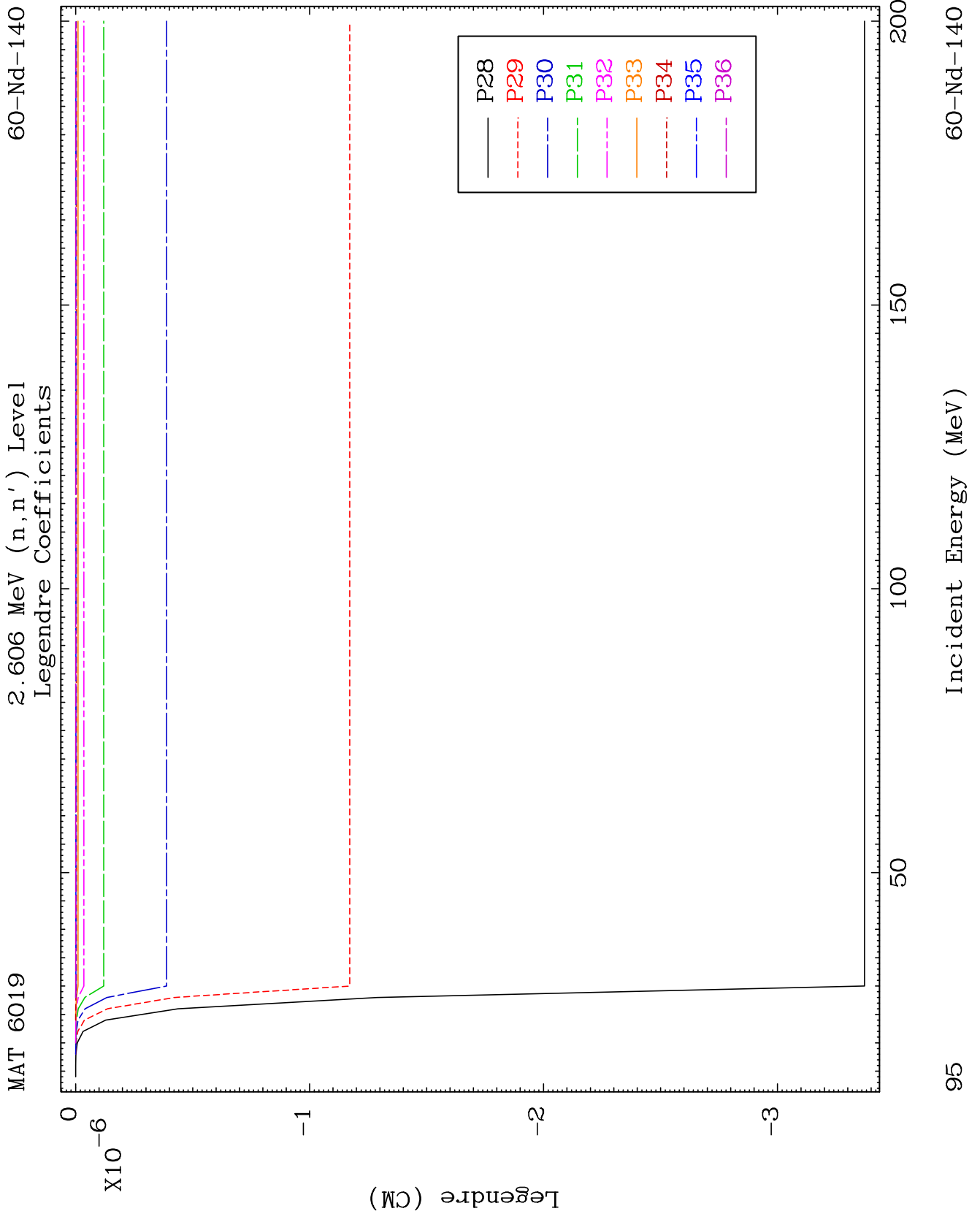




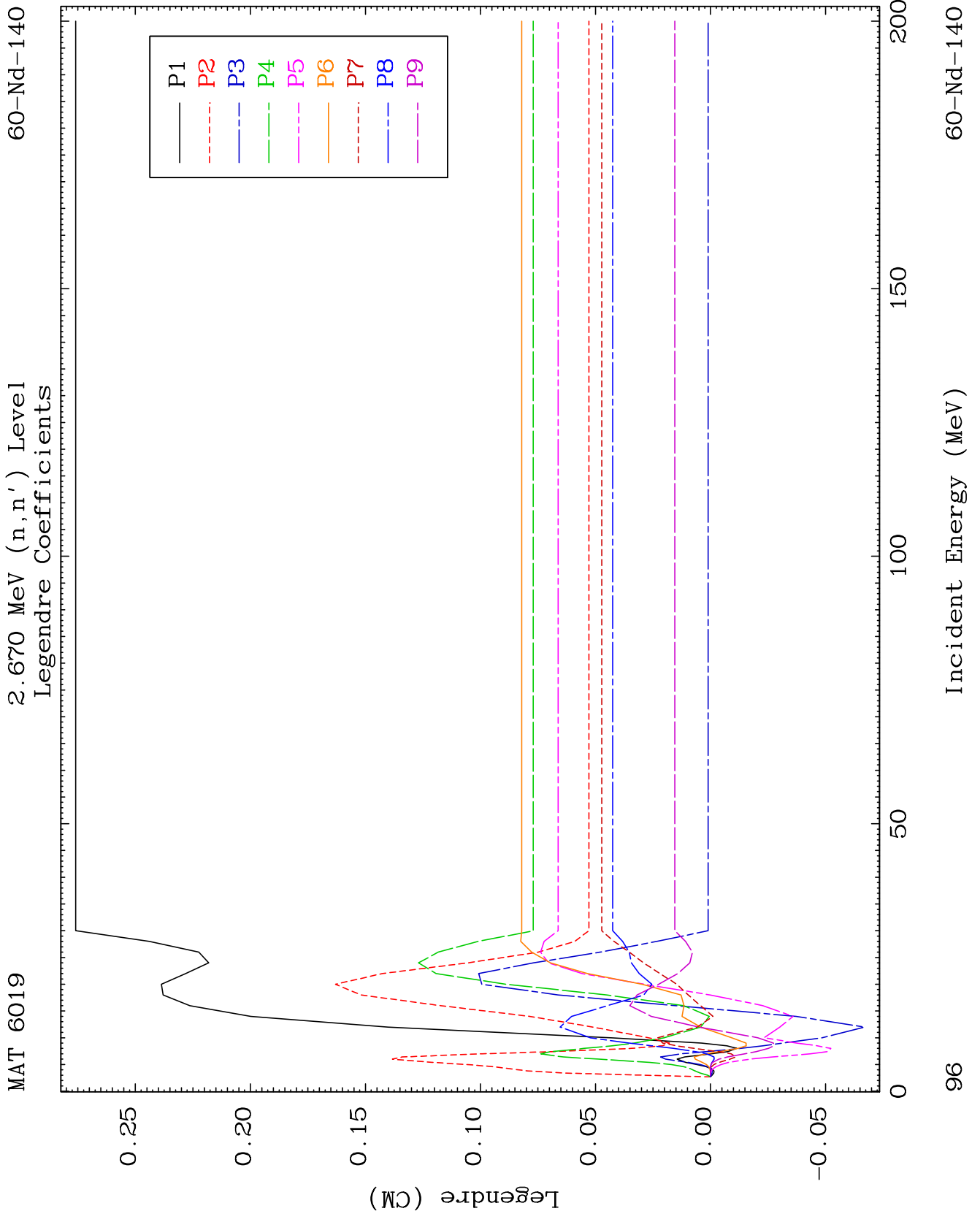


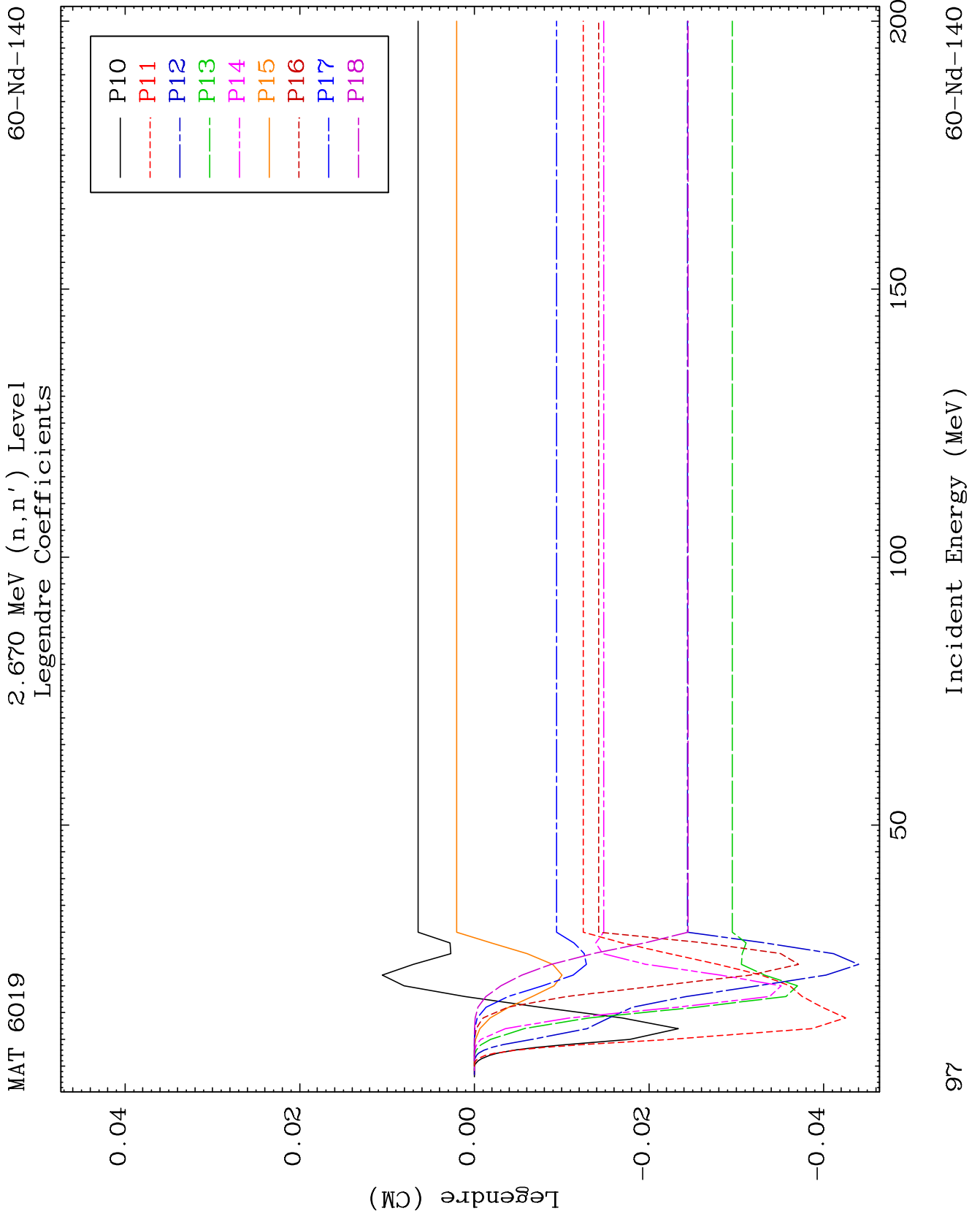


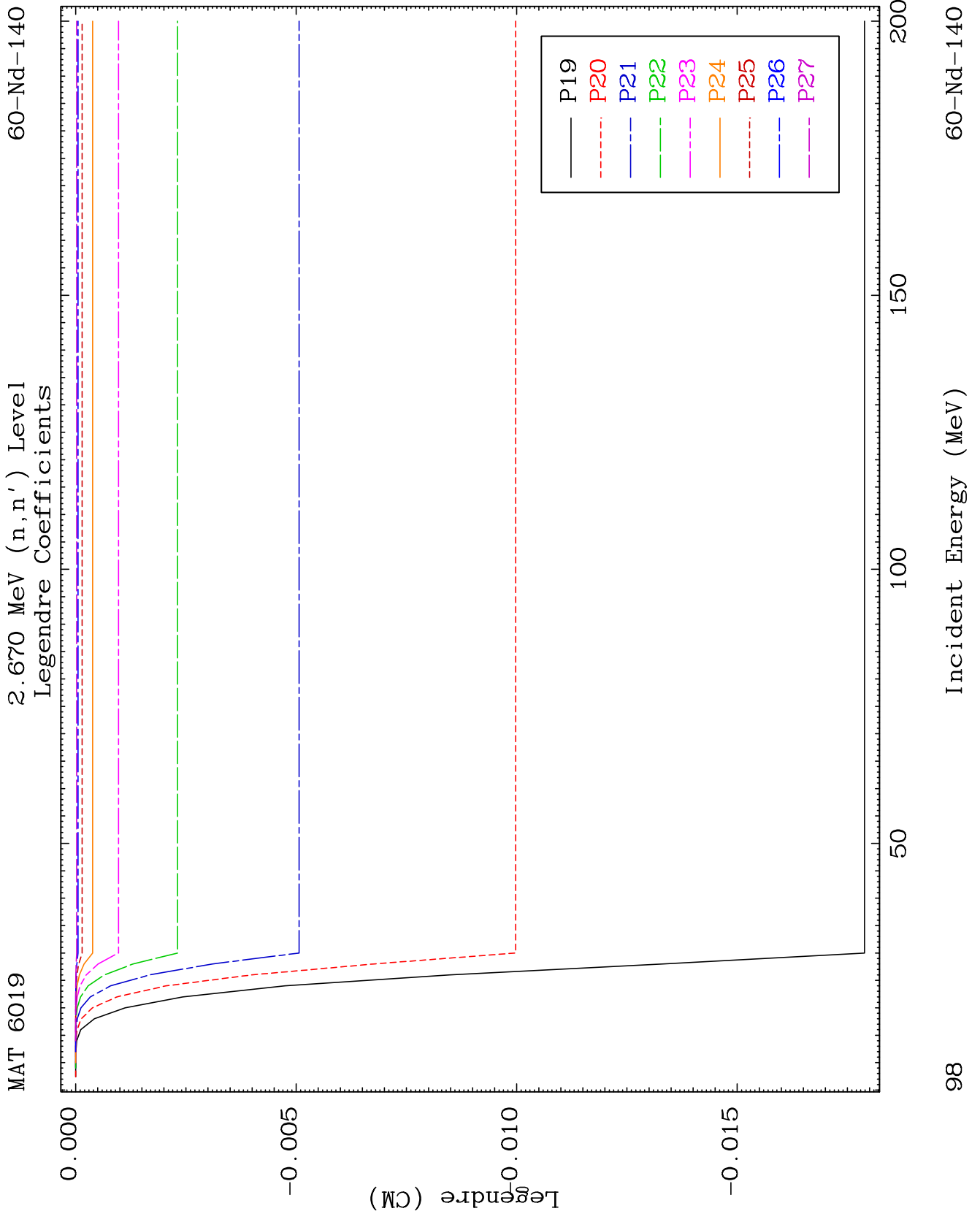


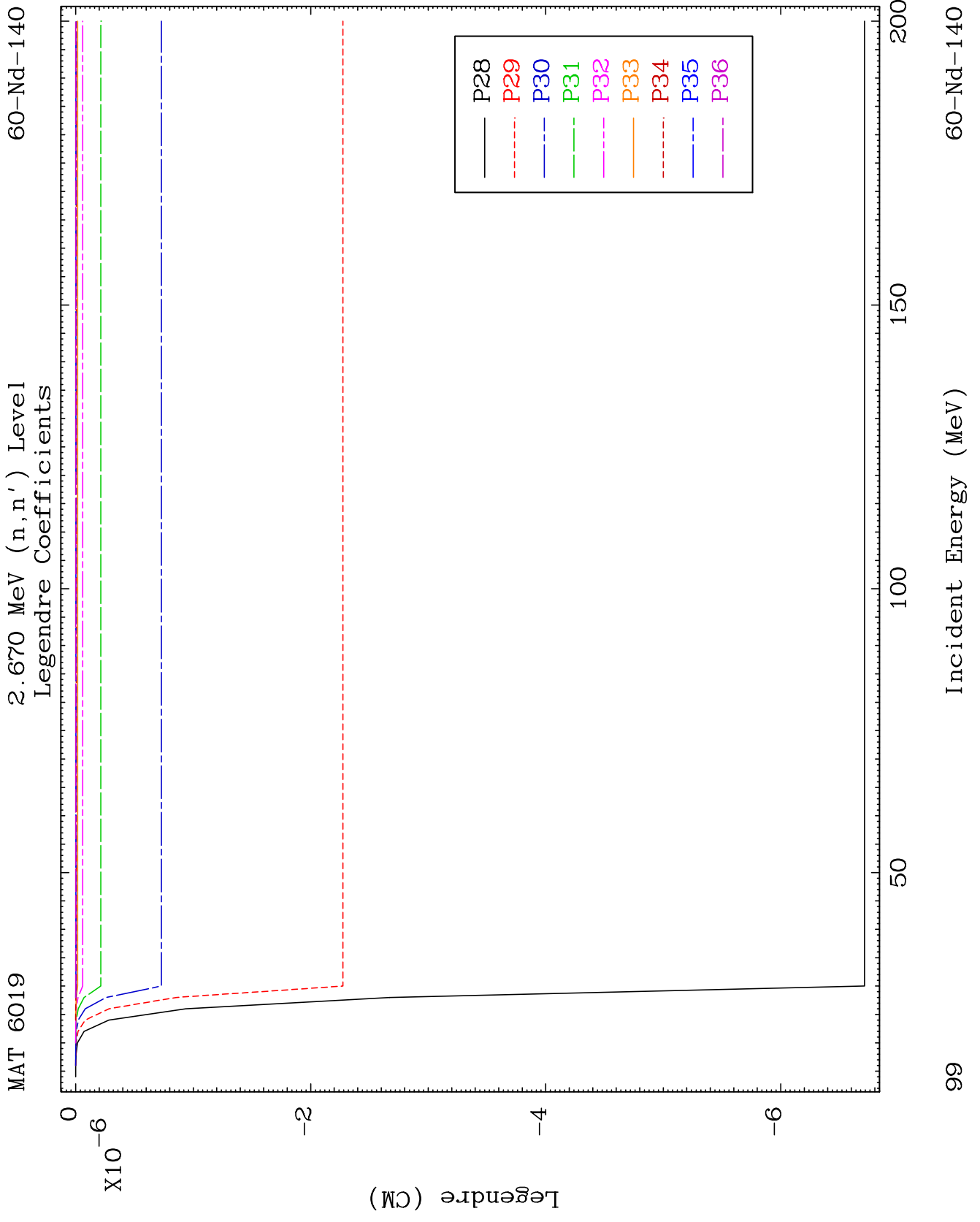


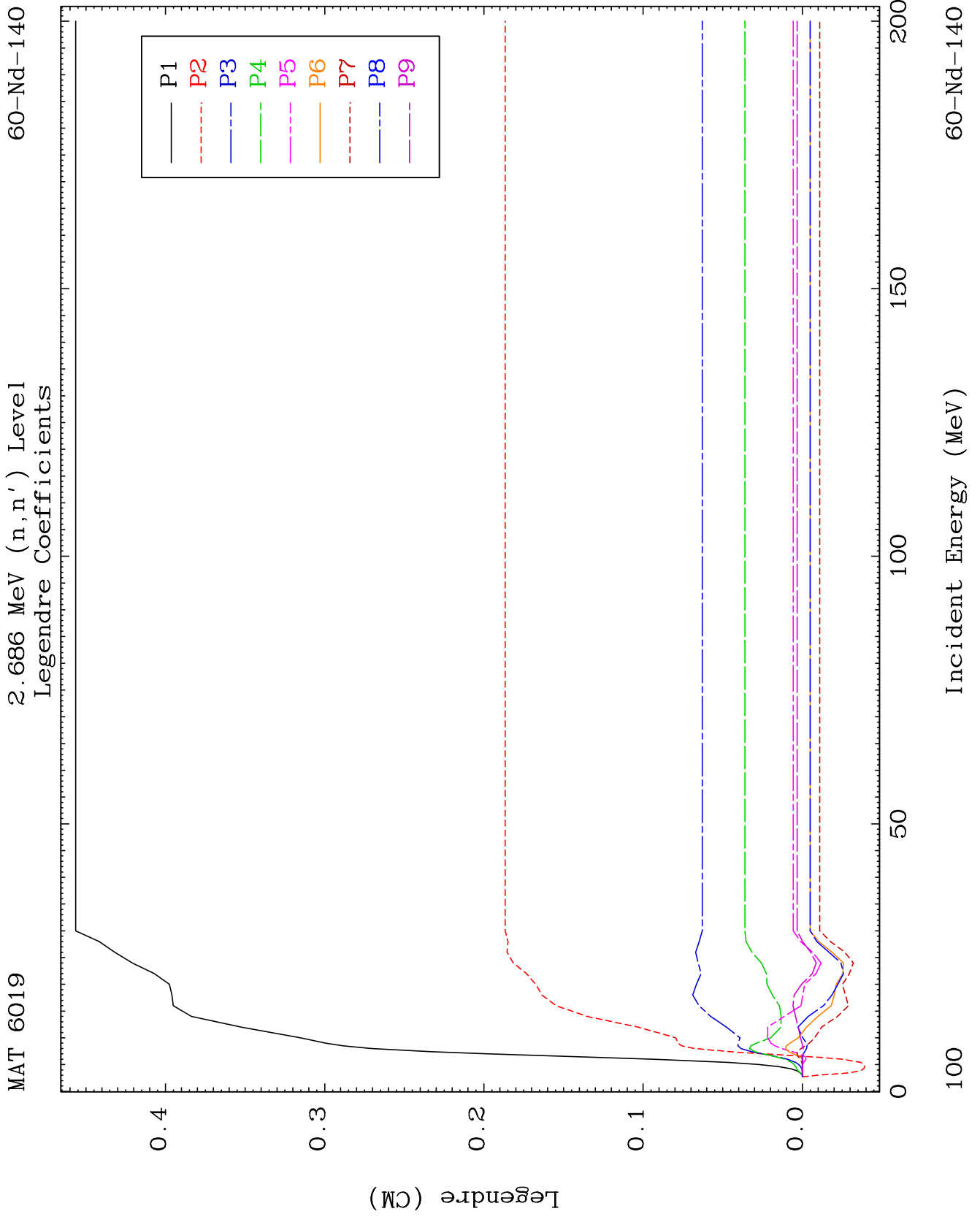








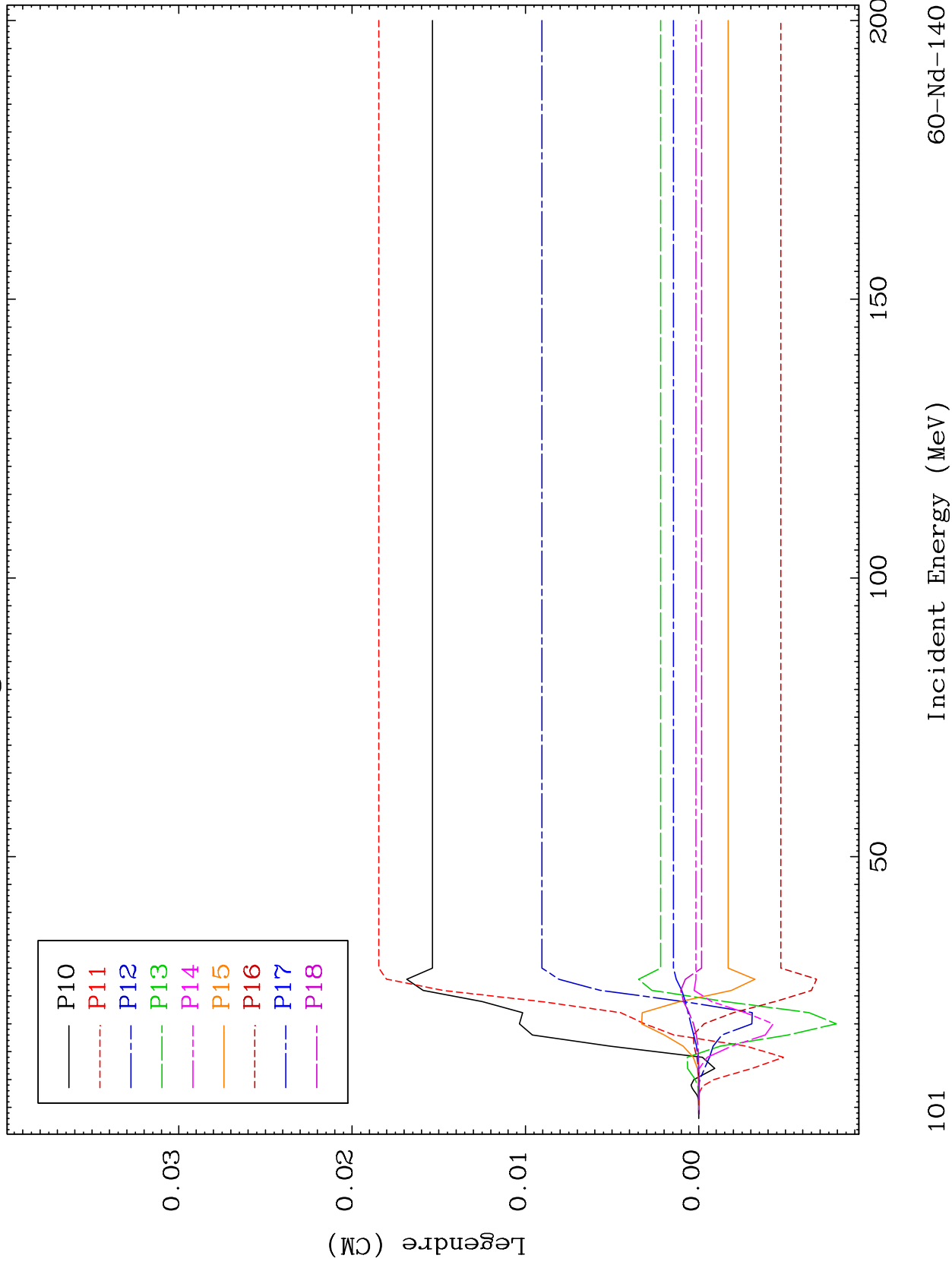




MAT 6019

2.686 MeV (n,n') Level  
Legendre Coefficients

60-Nd-140



101

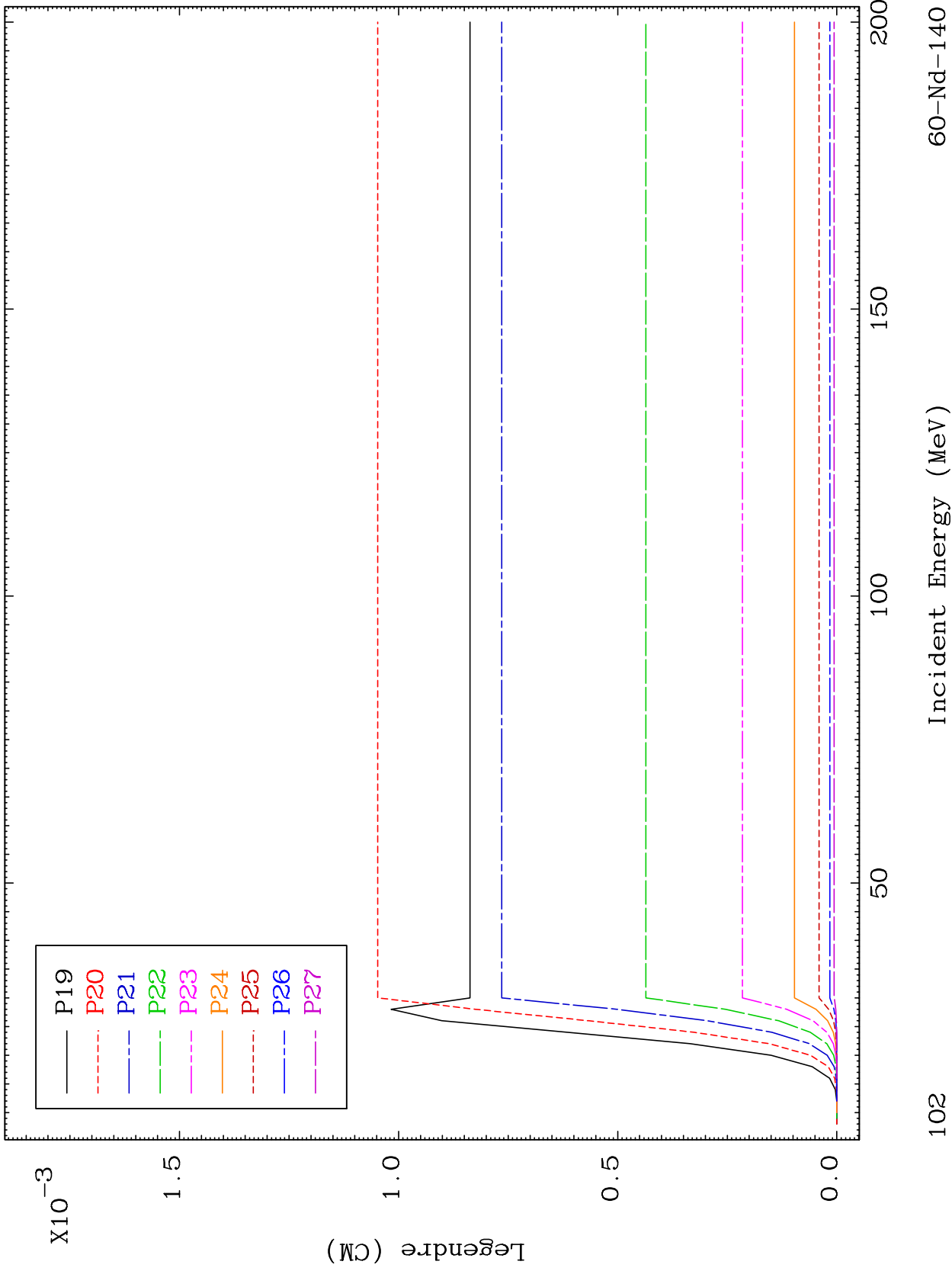
Incident Energy (MeV)

60-Nd-140

MAT 6019

2.686 MeV (n, n') Level  
Legendre Coefficients

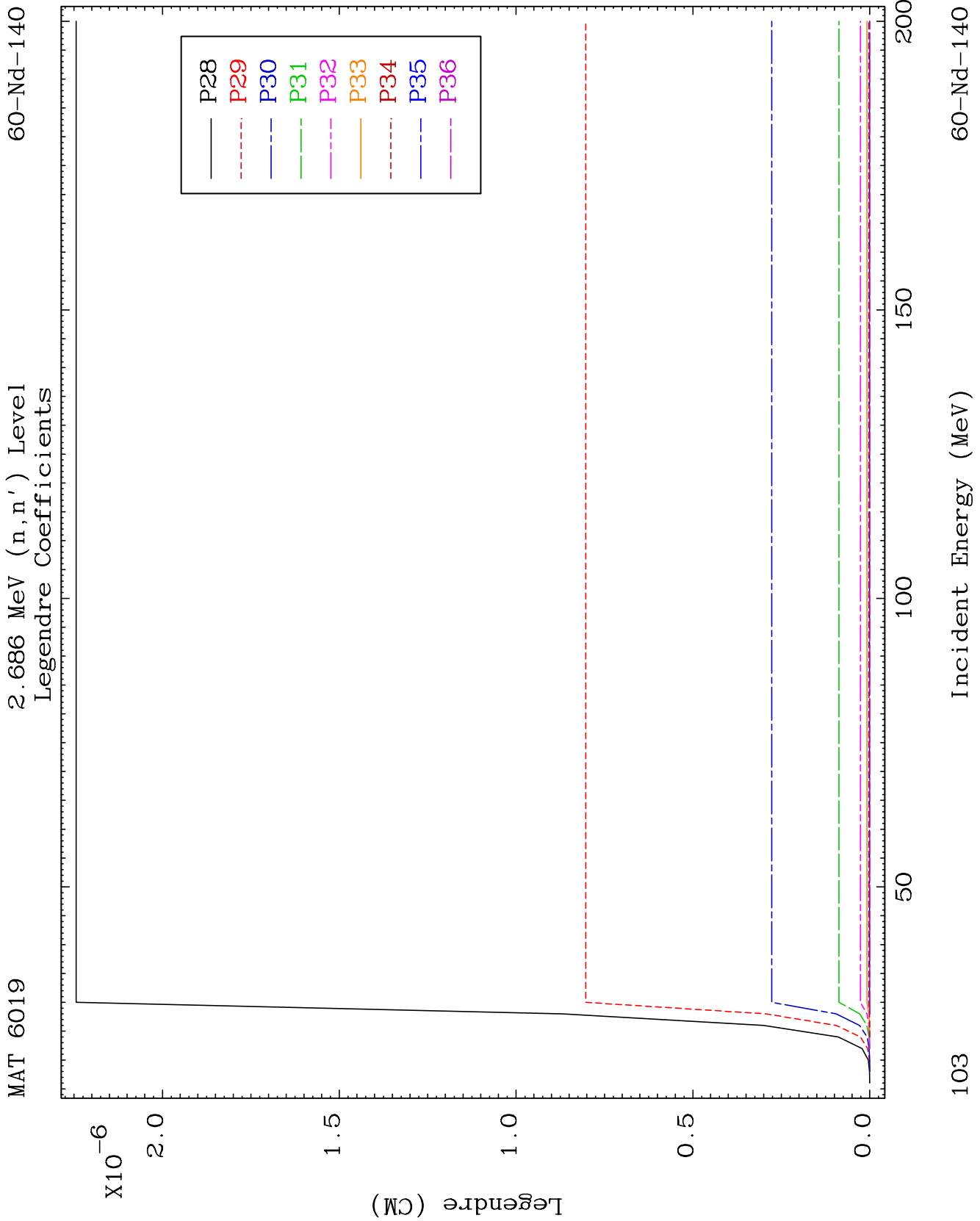
60-Nd-140



102

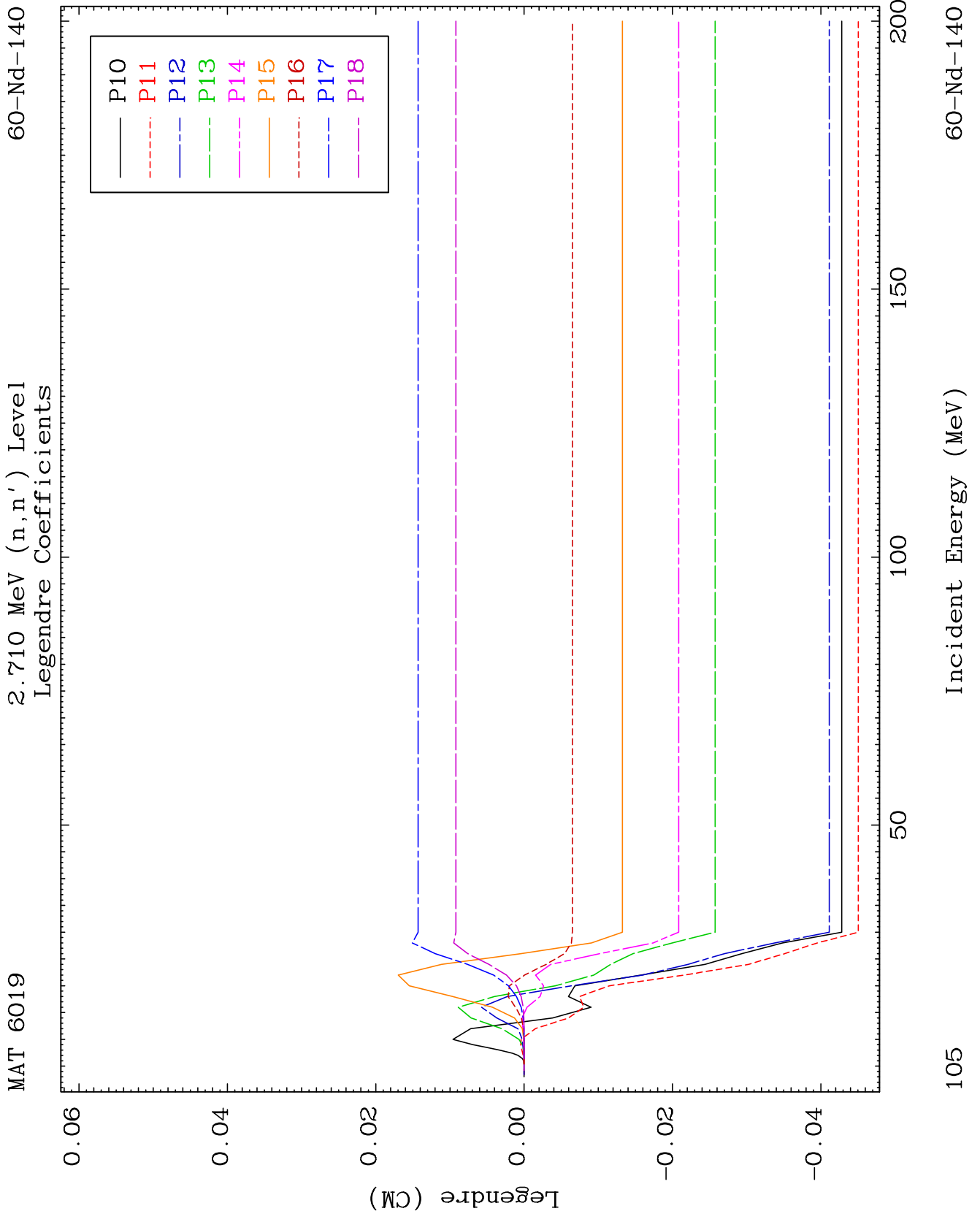
Incident Energy (MeV)

60-Nd-140

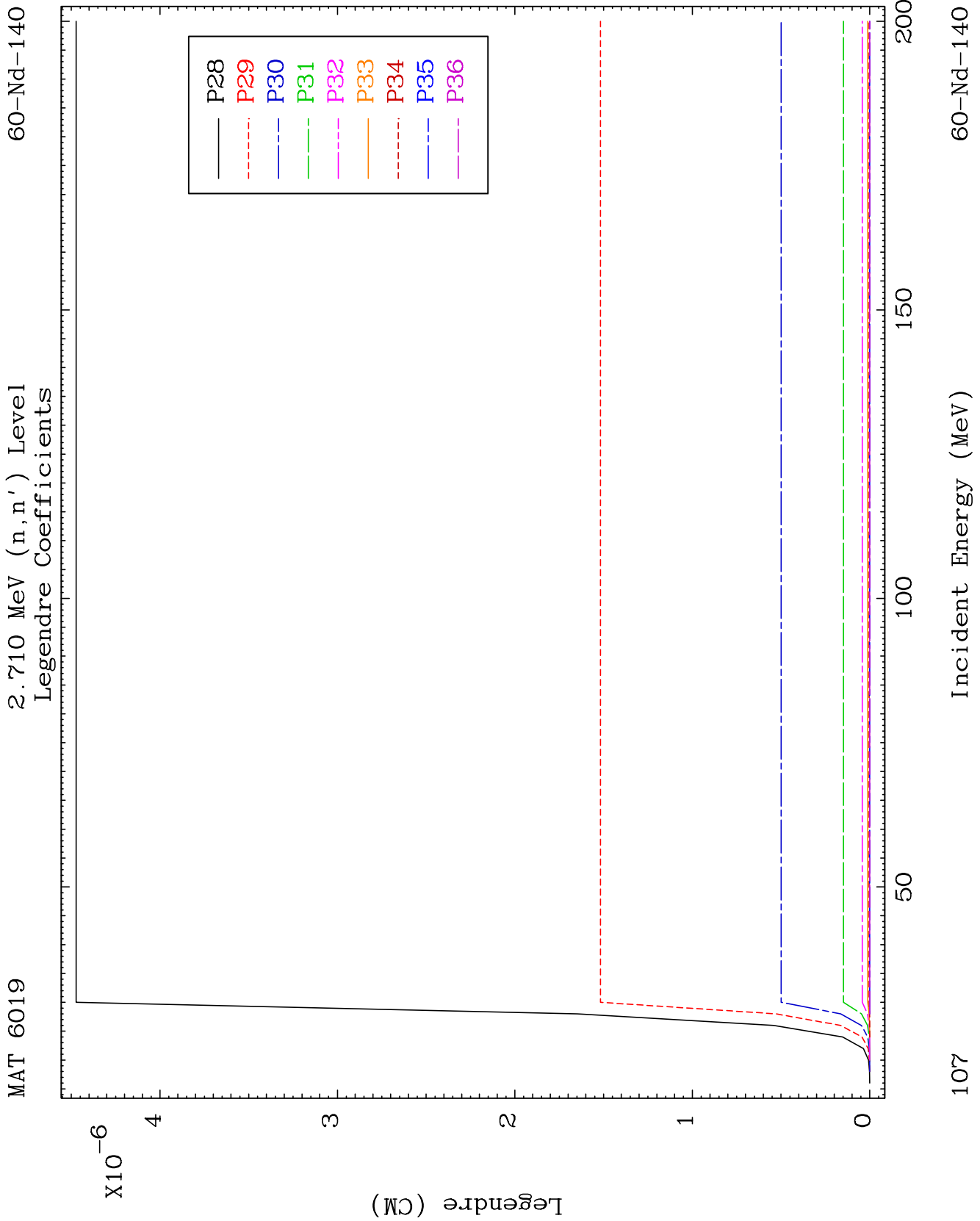


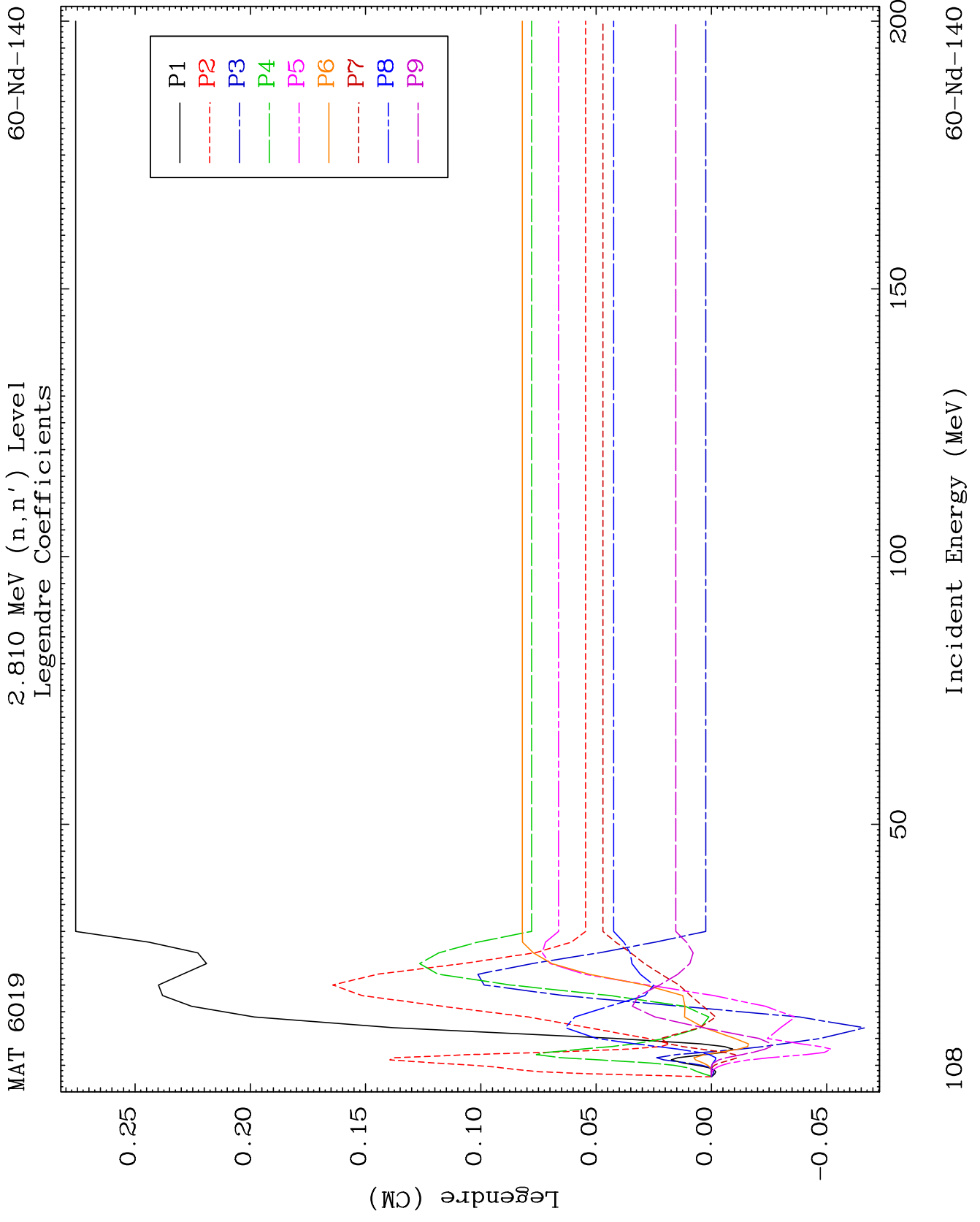


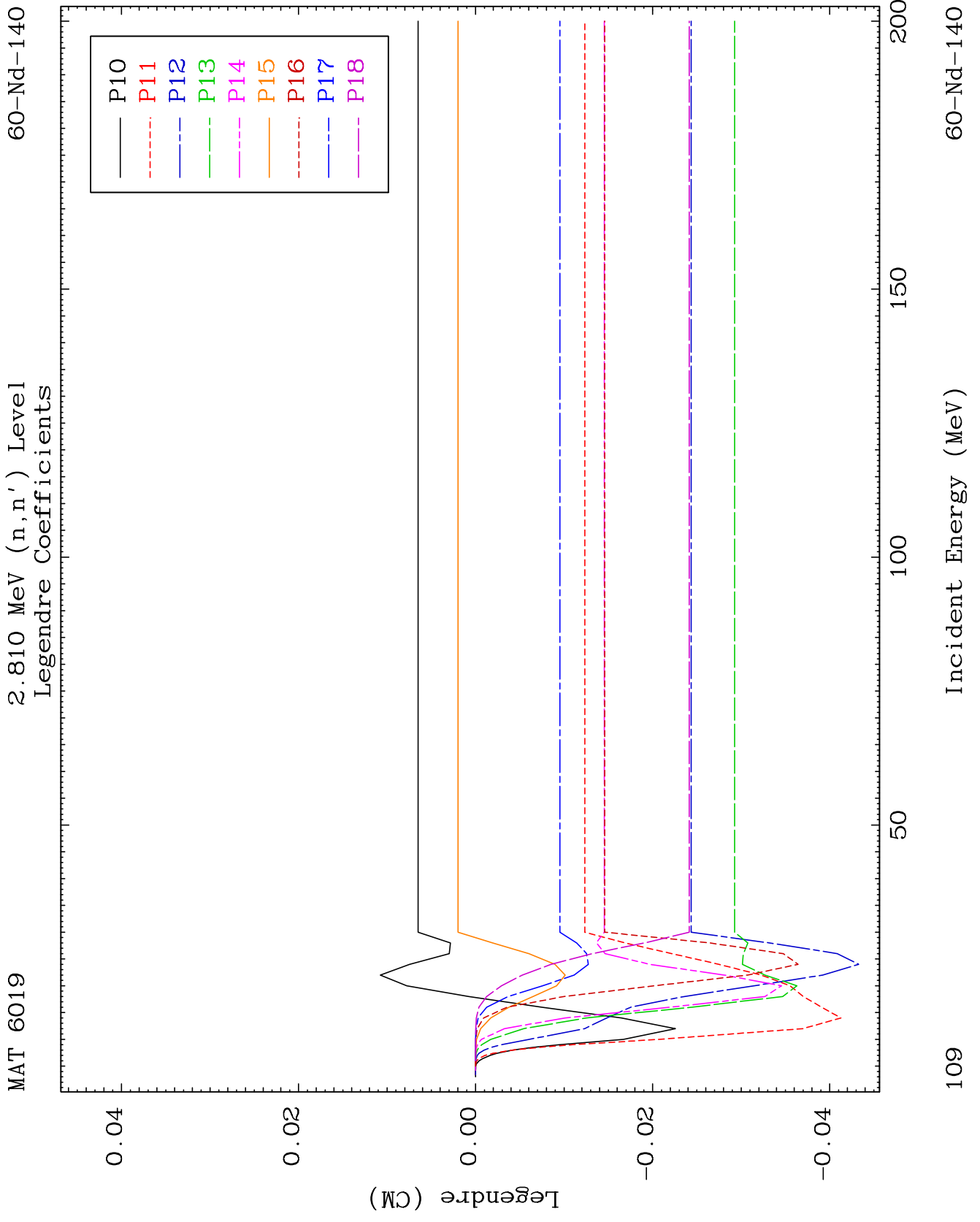


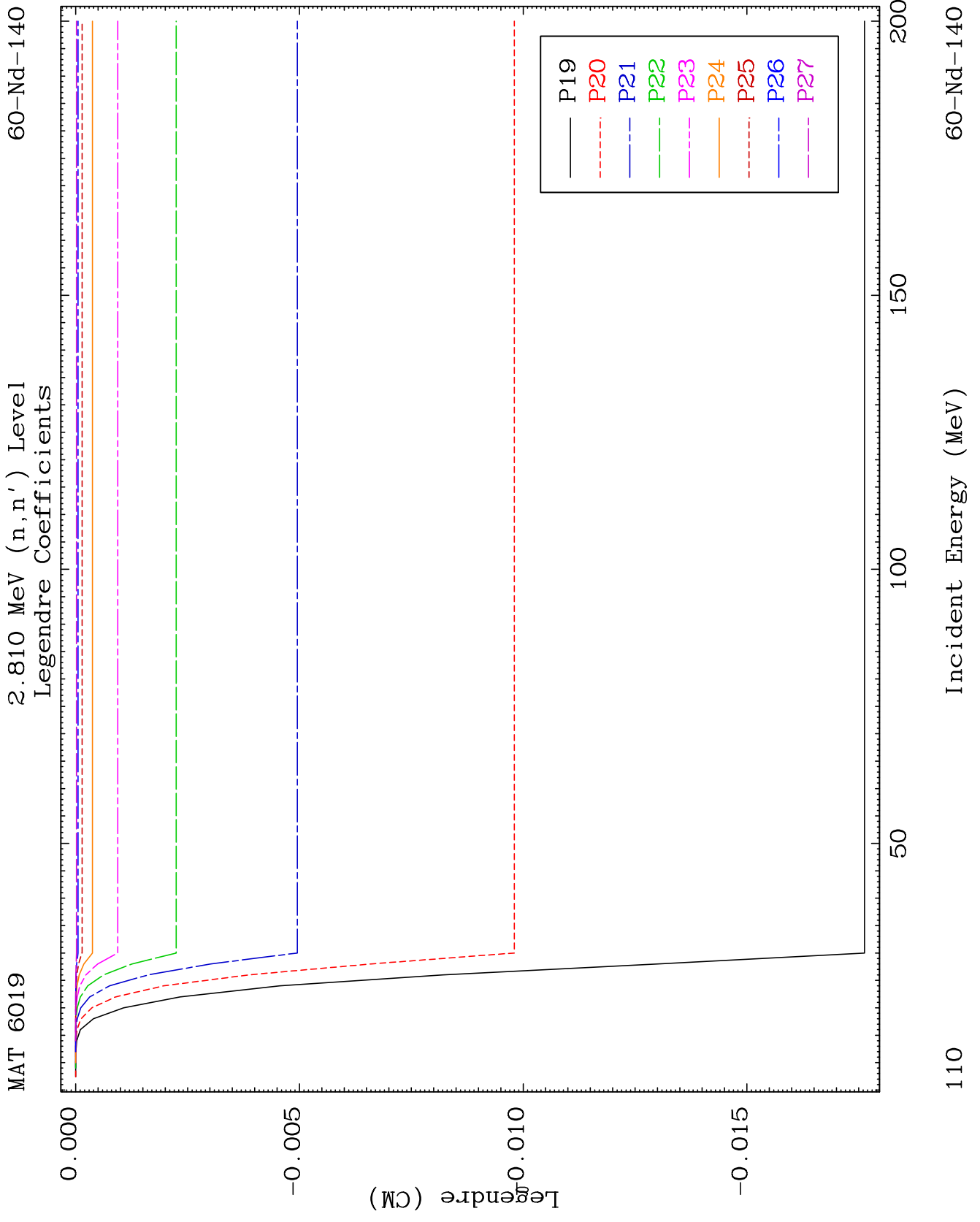


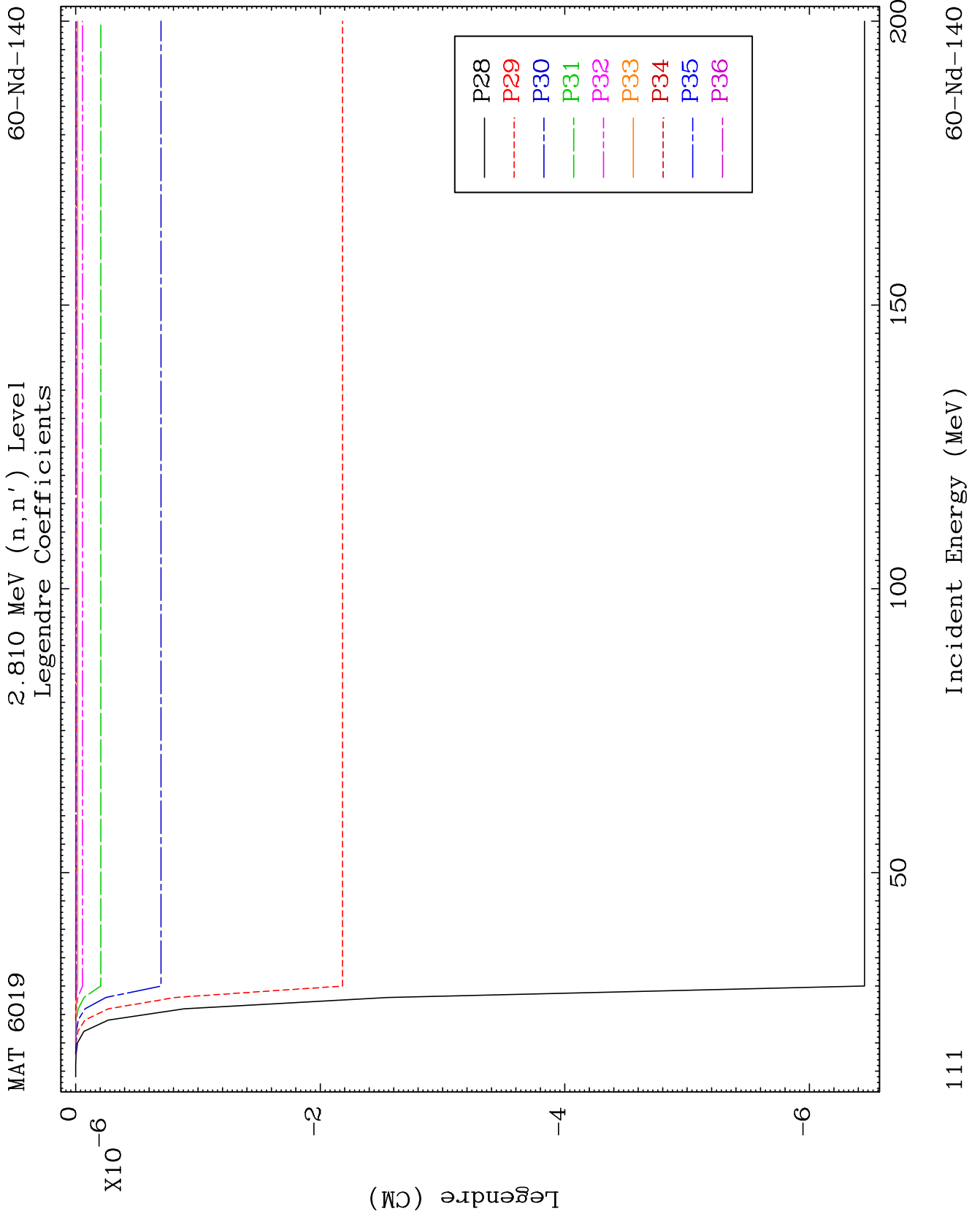




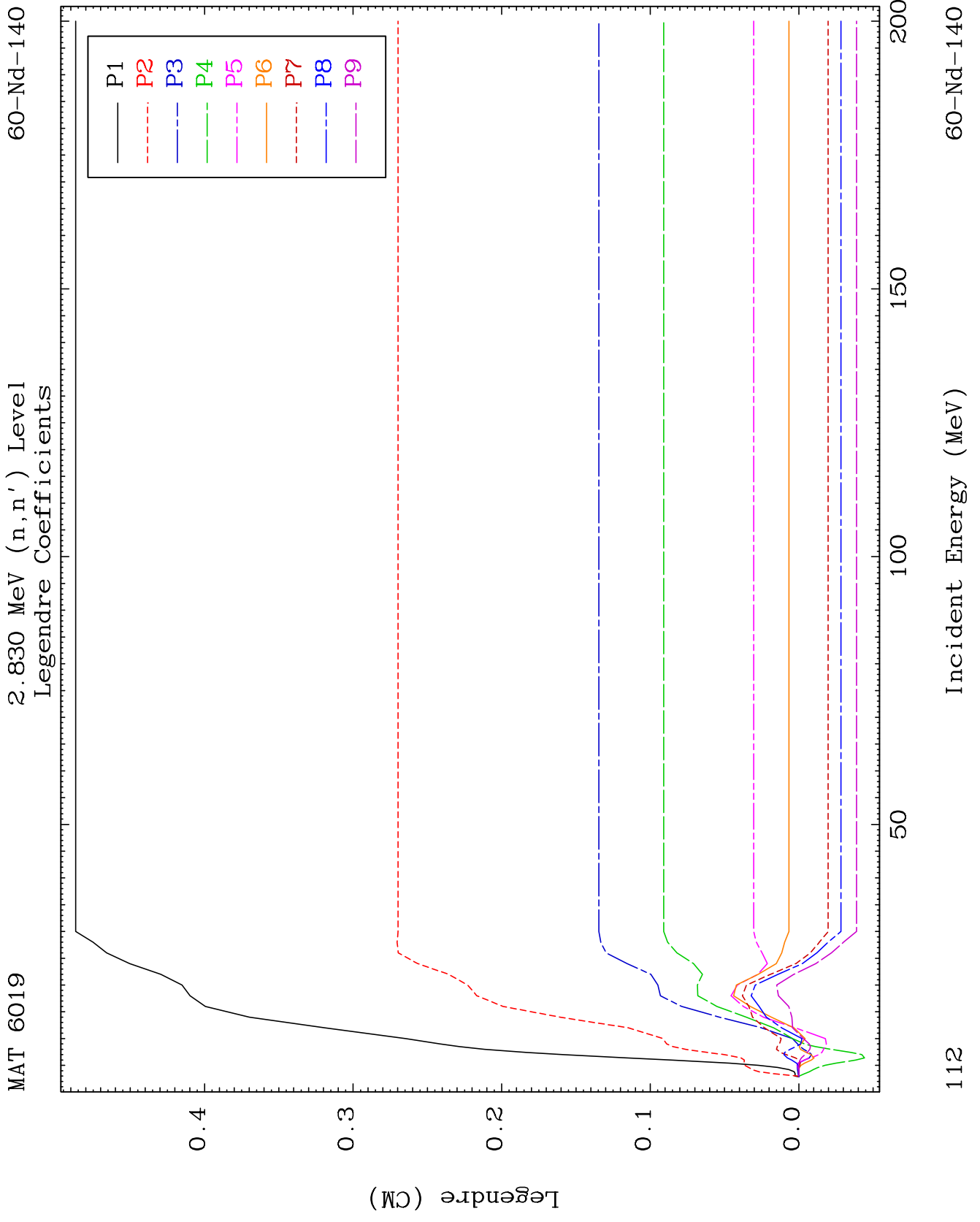


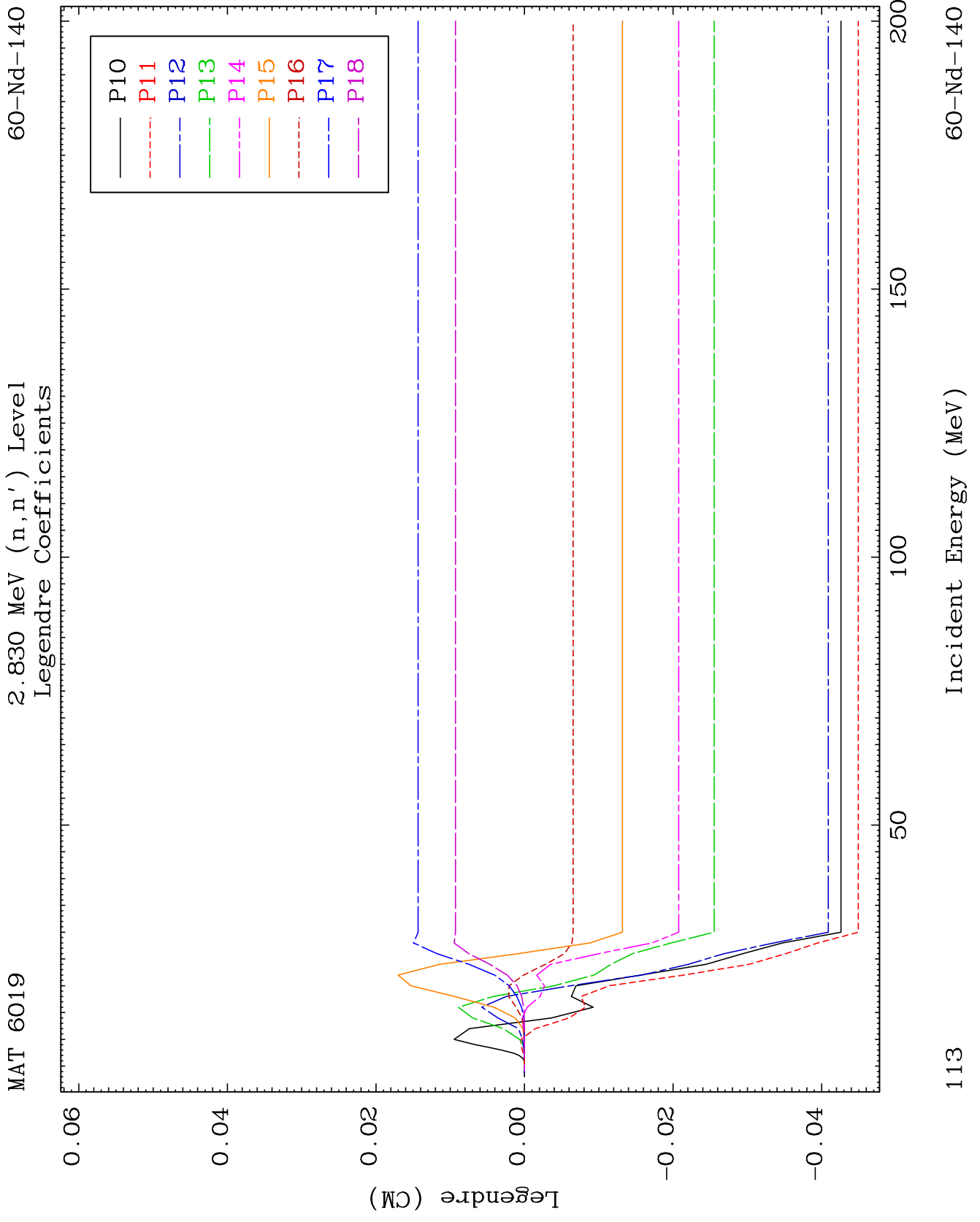


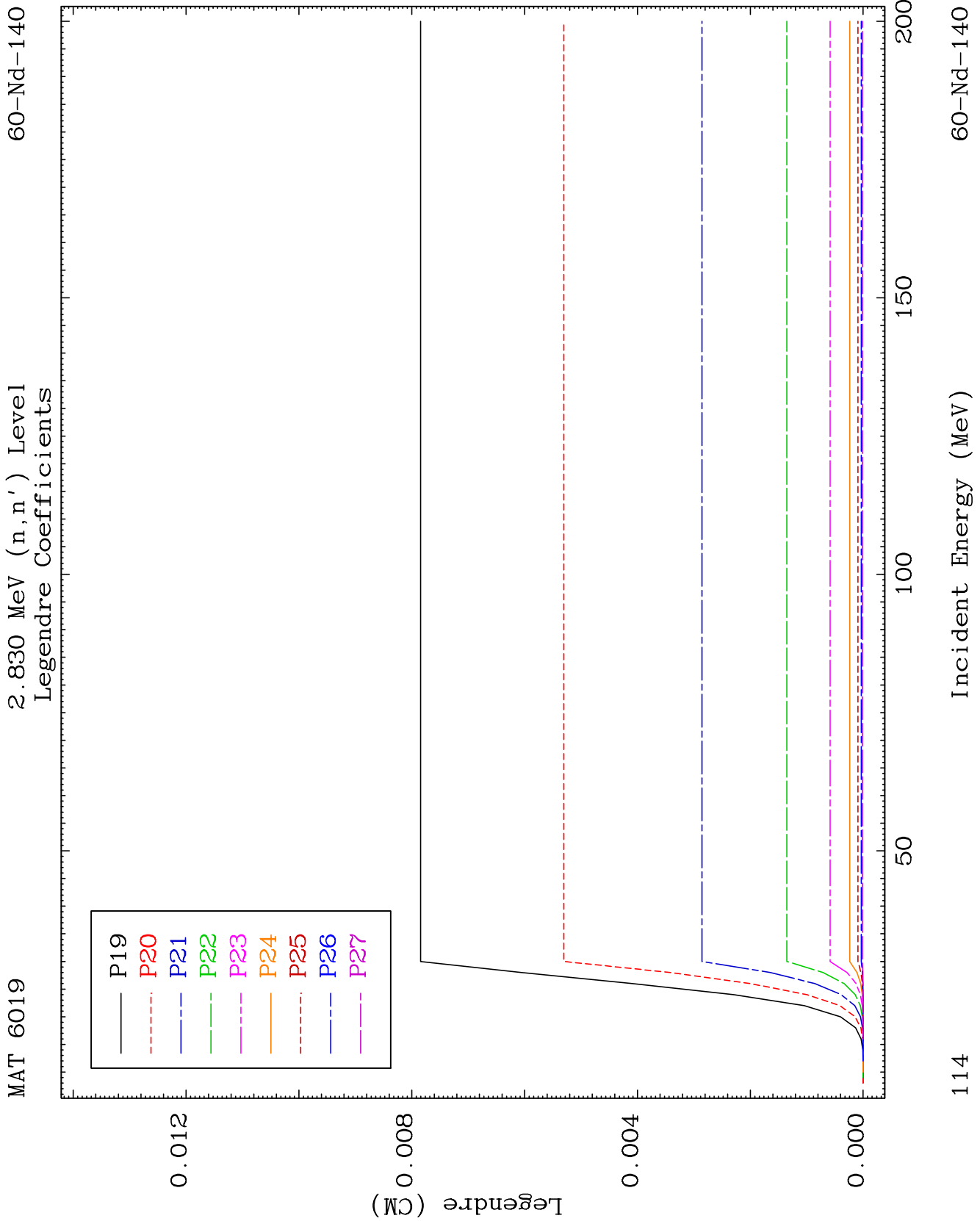




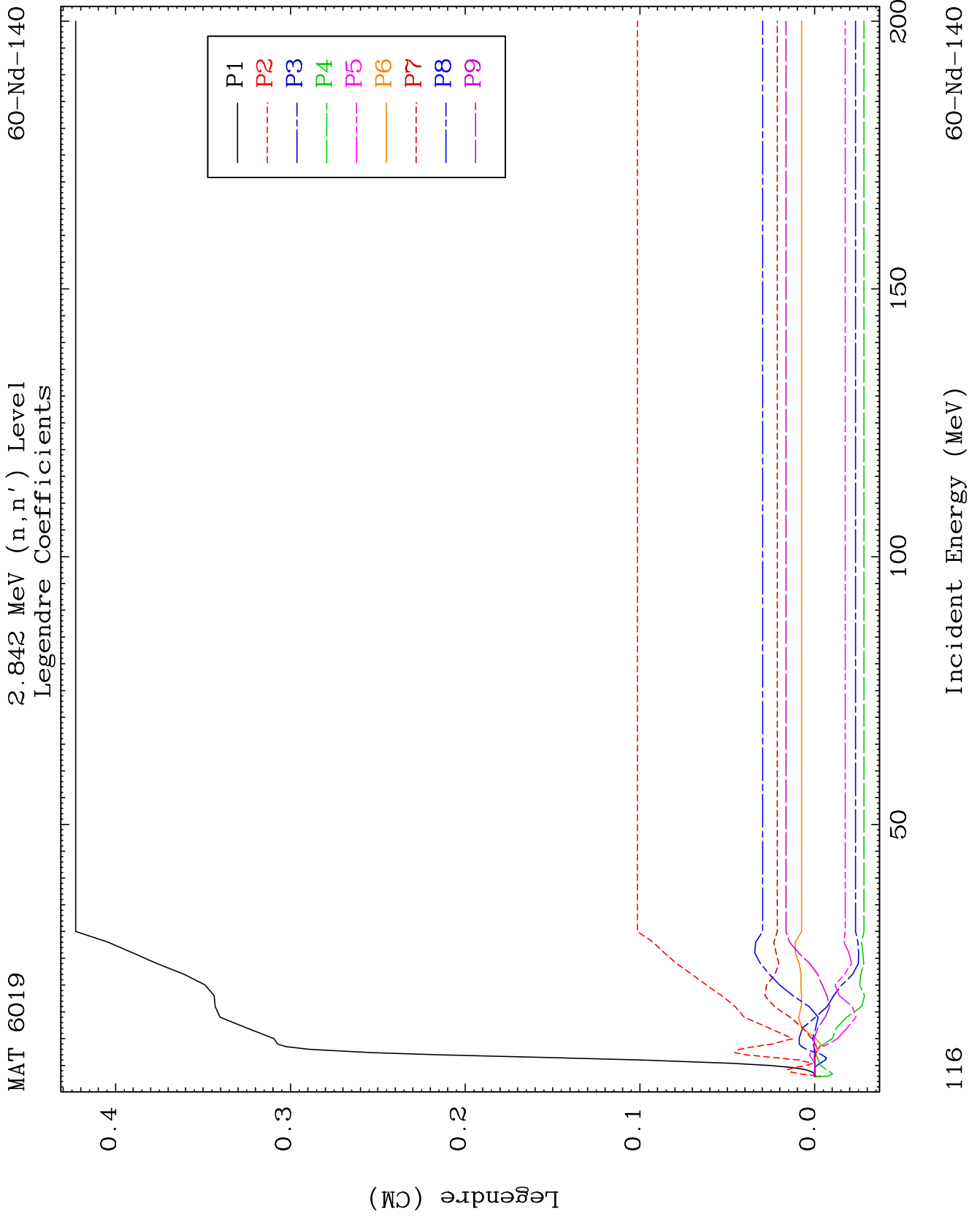








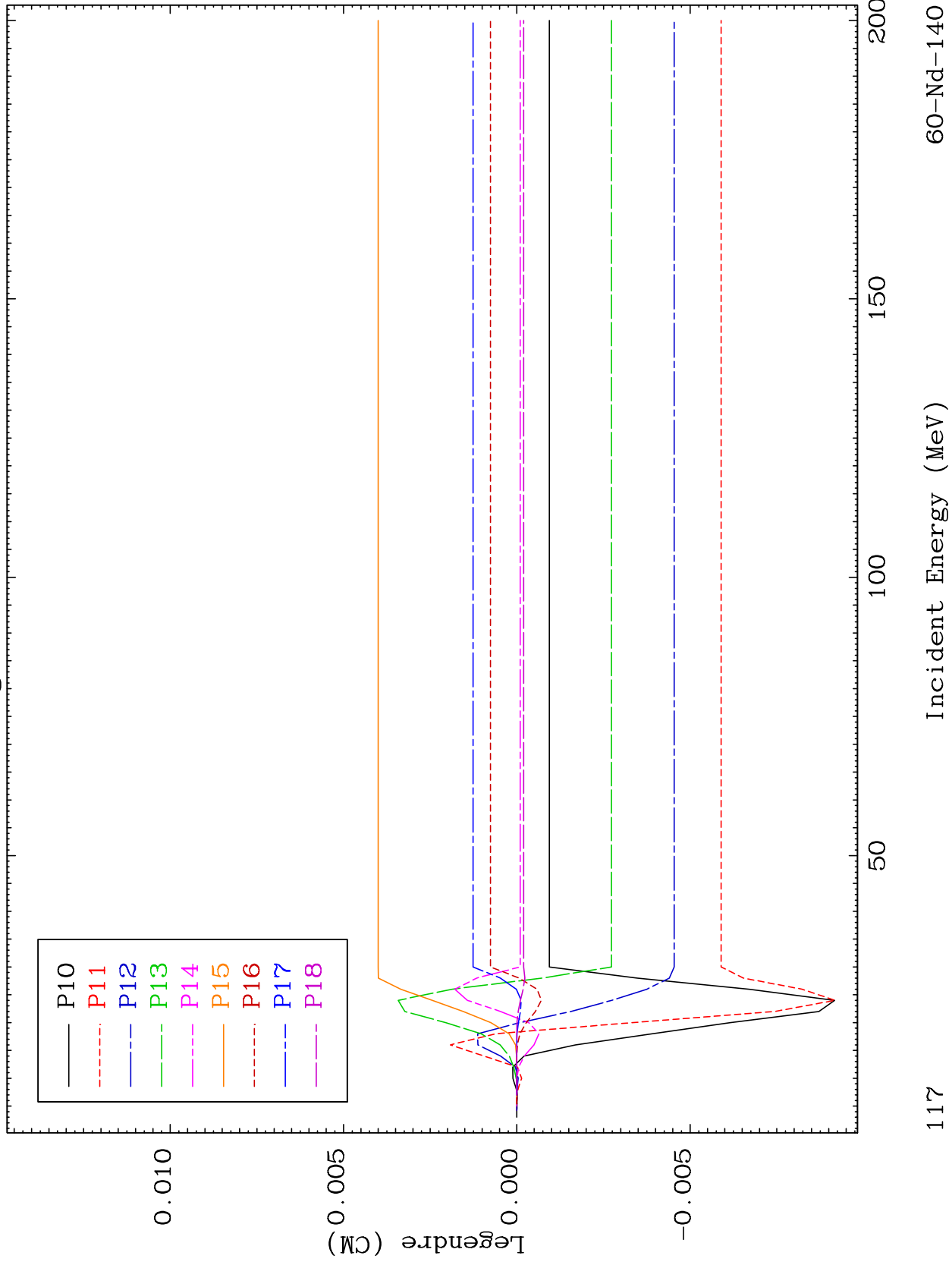




MAT 6019

2.842 MeV (n, n') Level  
Legendre Coefficients

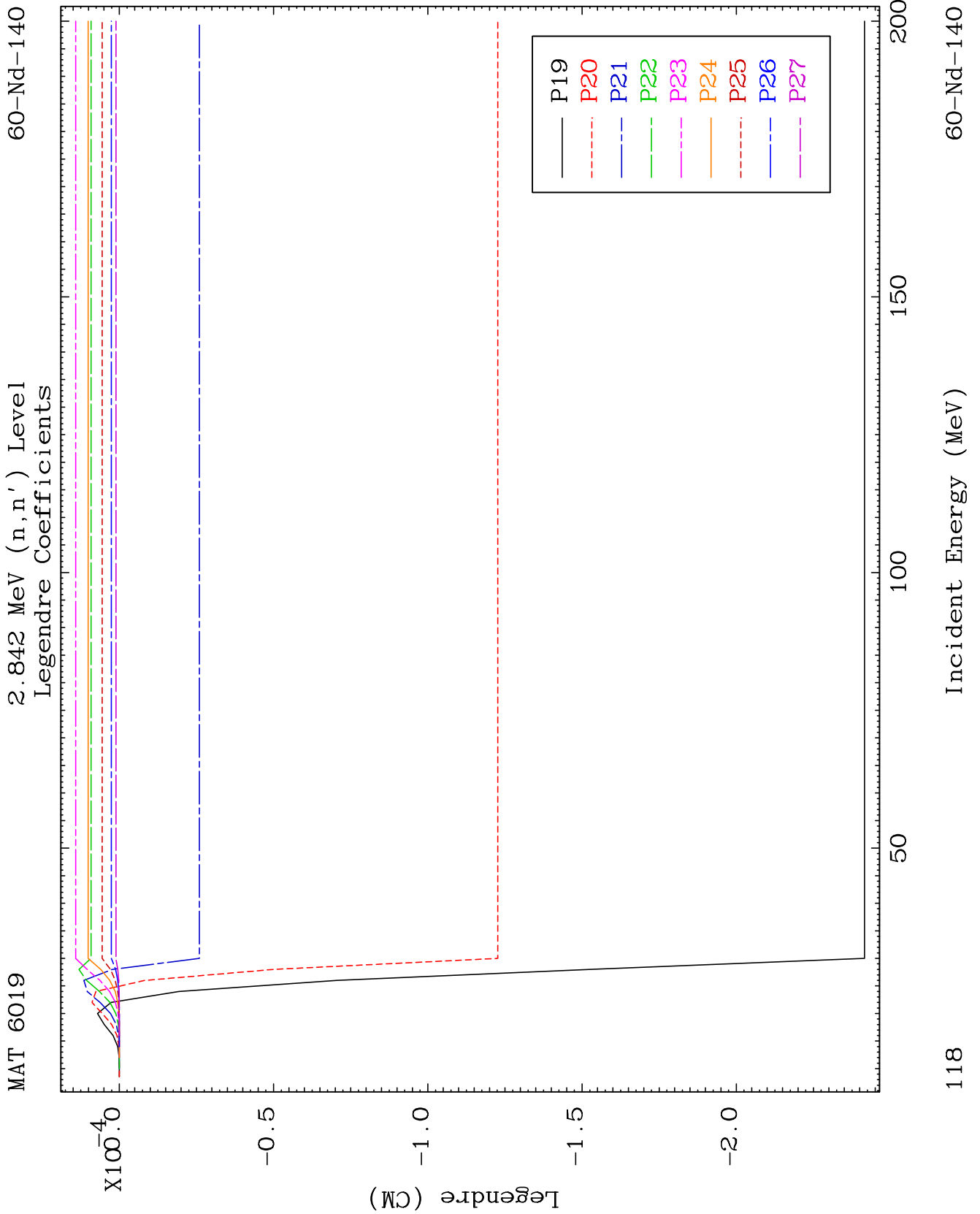
60-Nd-140

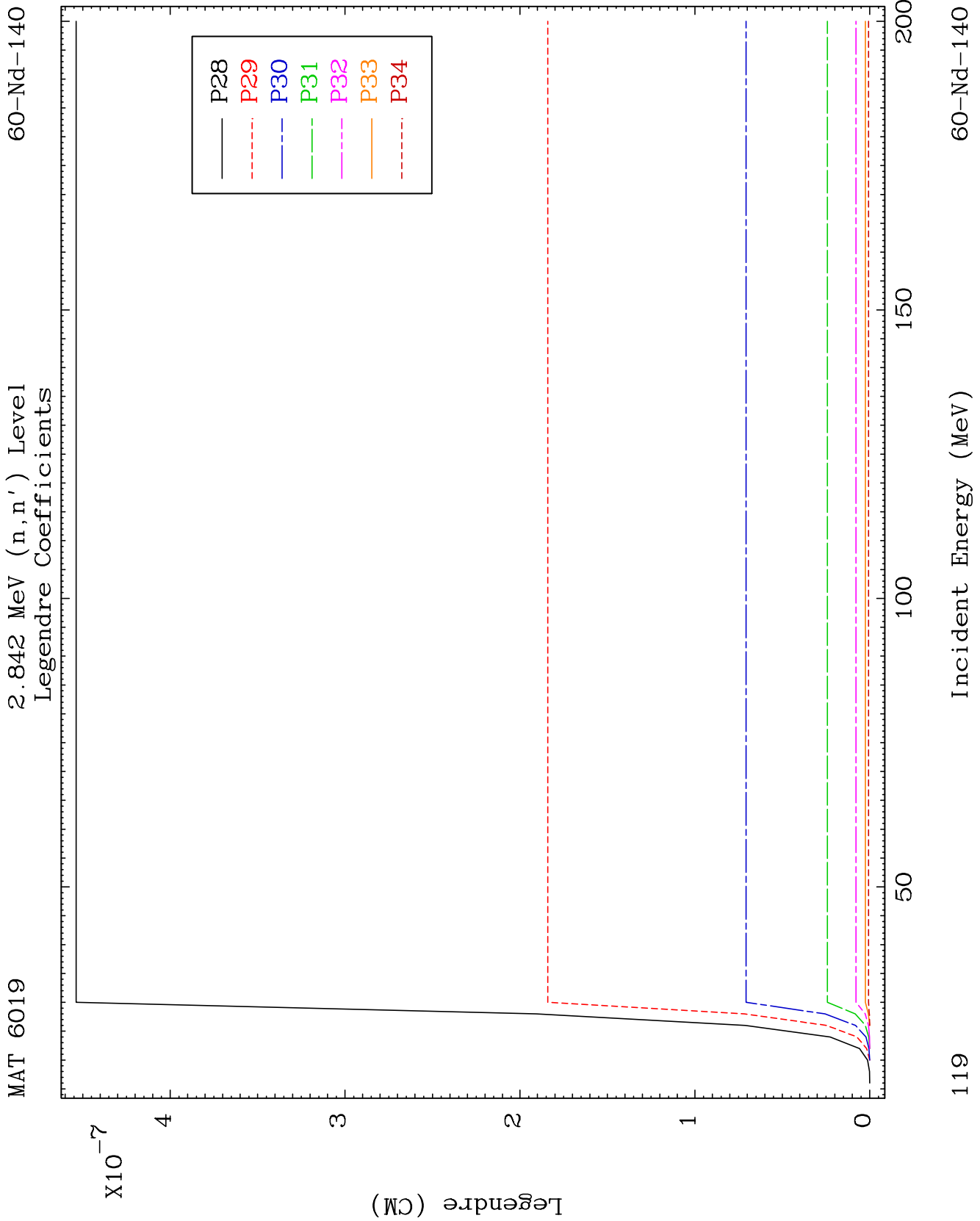


117

Incident Energy (MeV)

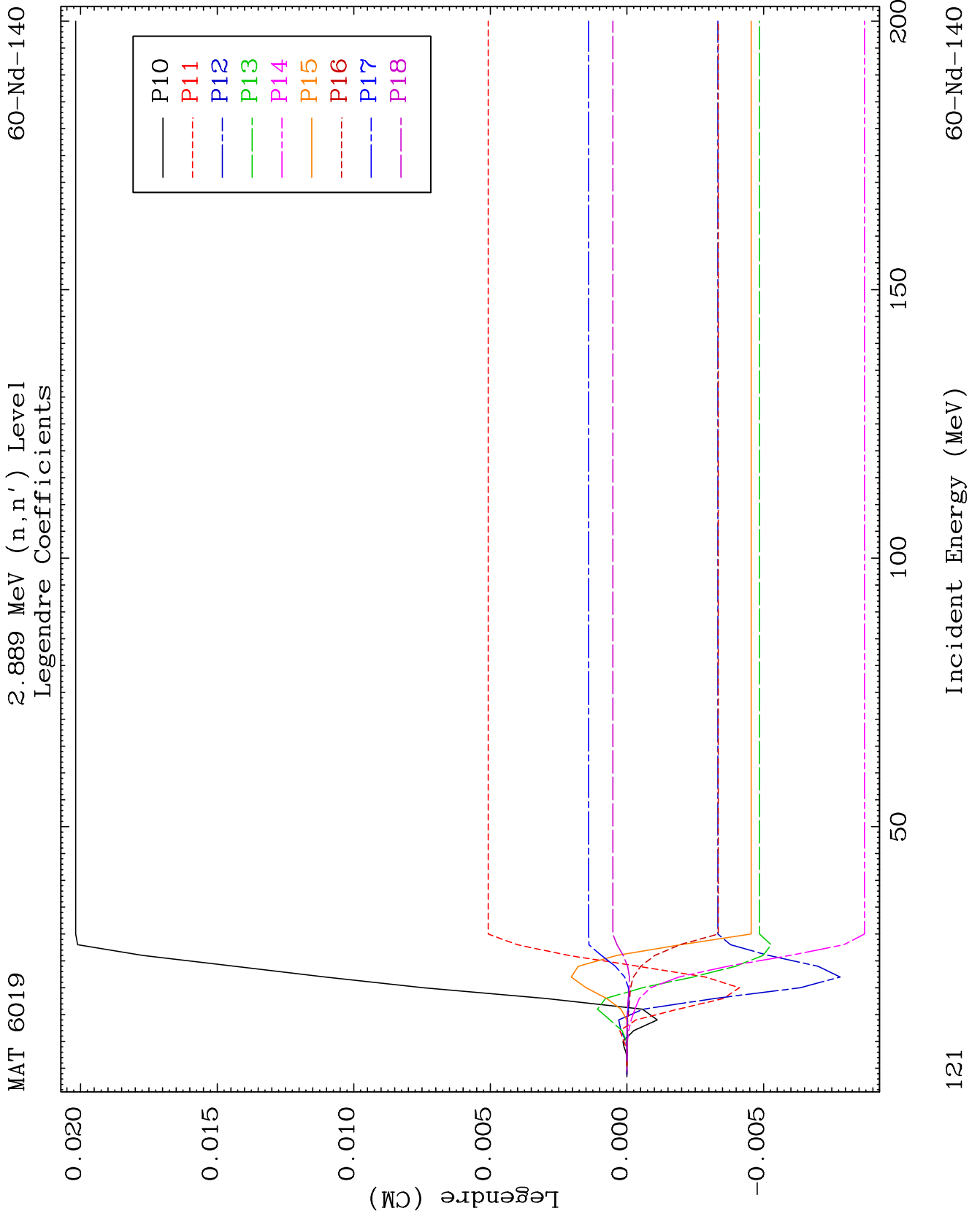
60-Nd-140

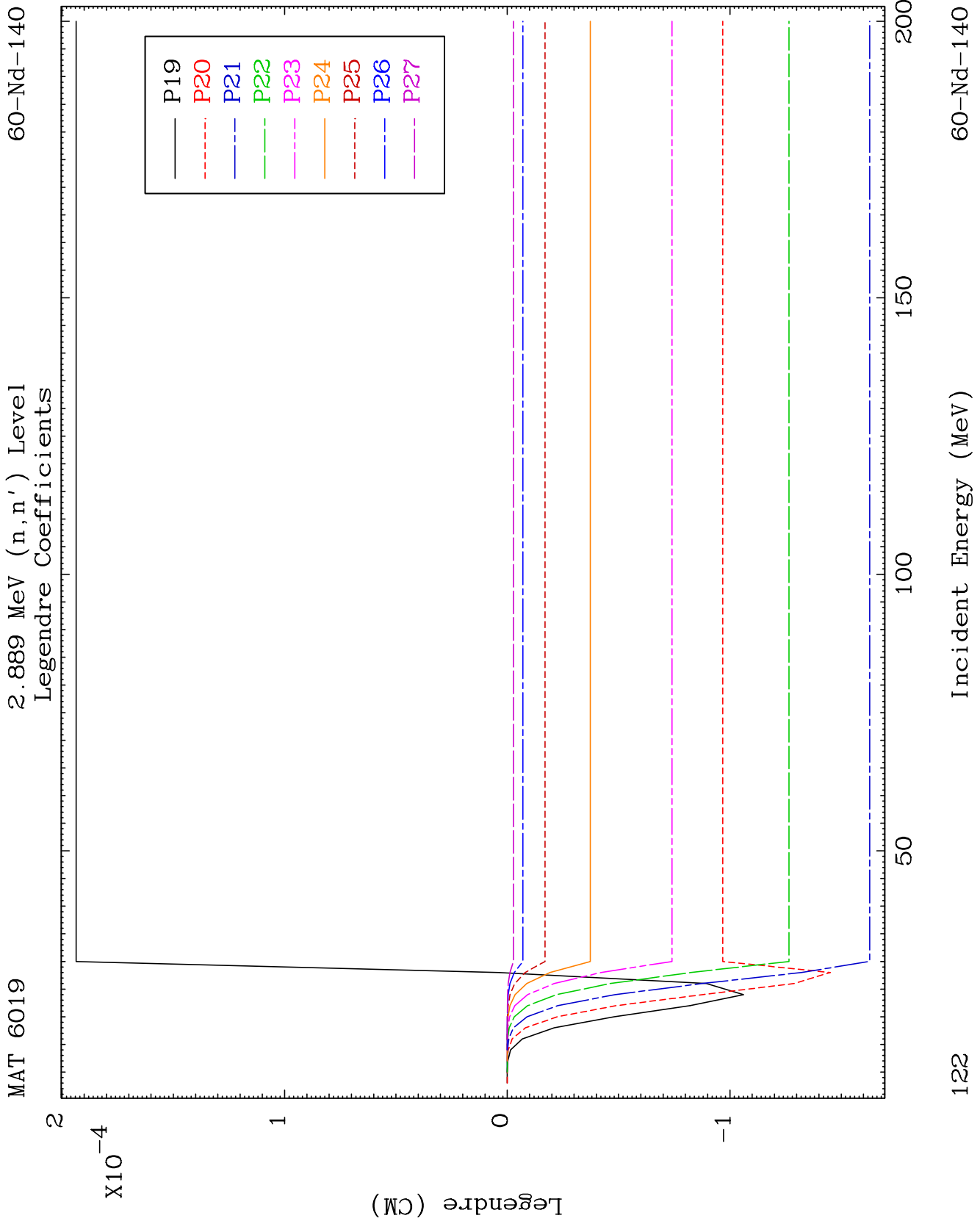


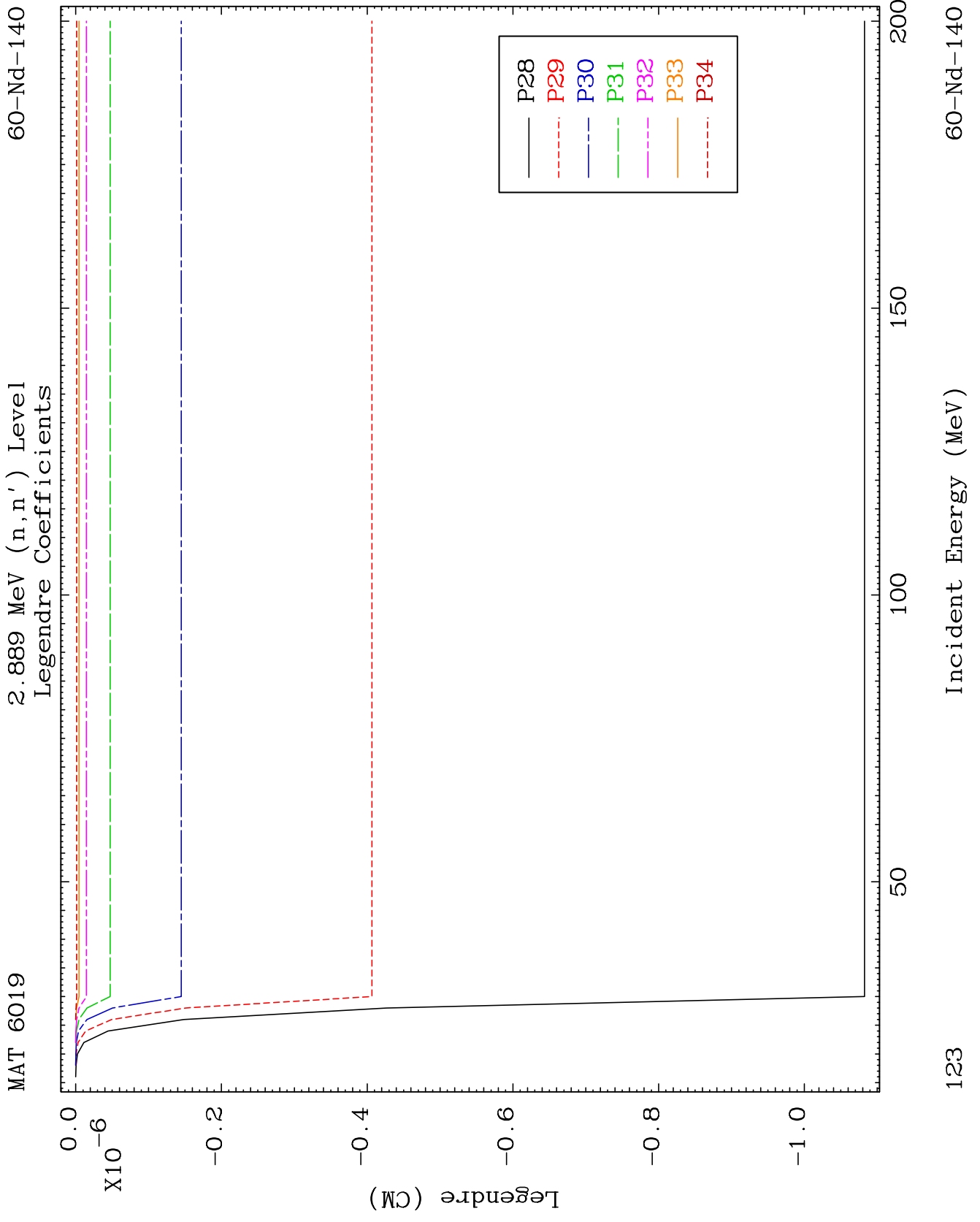


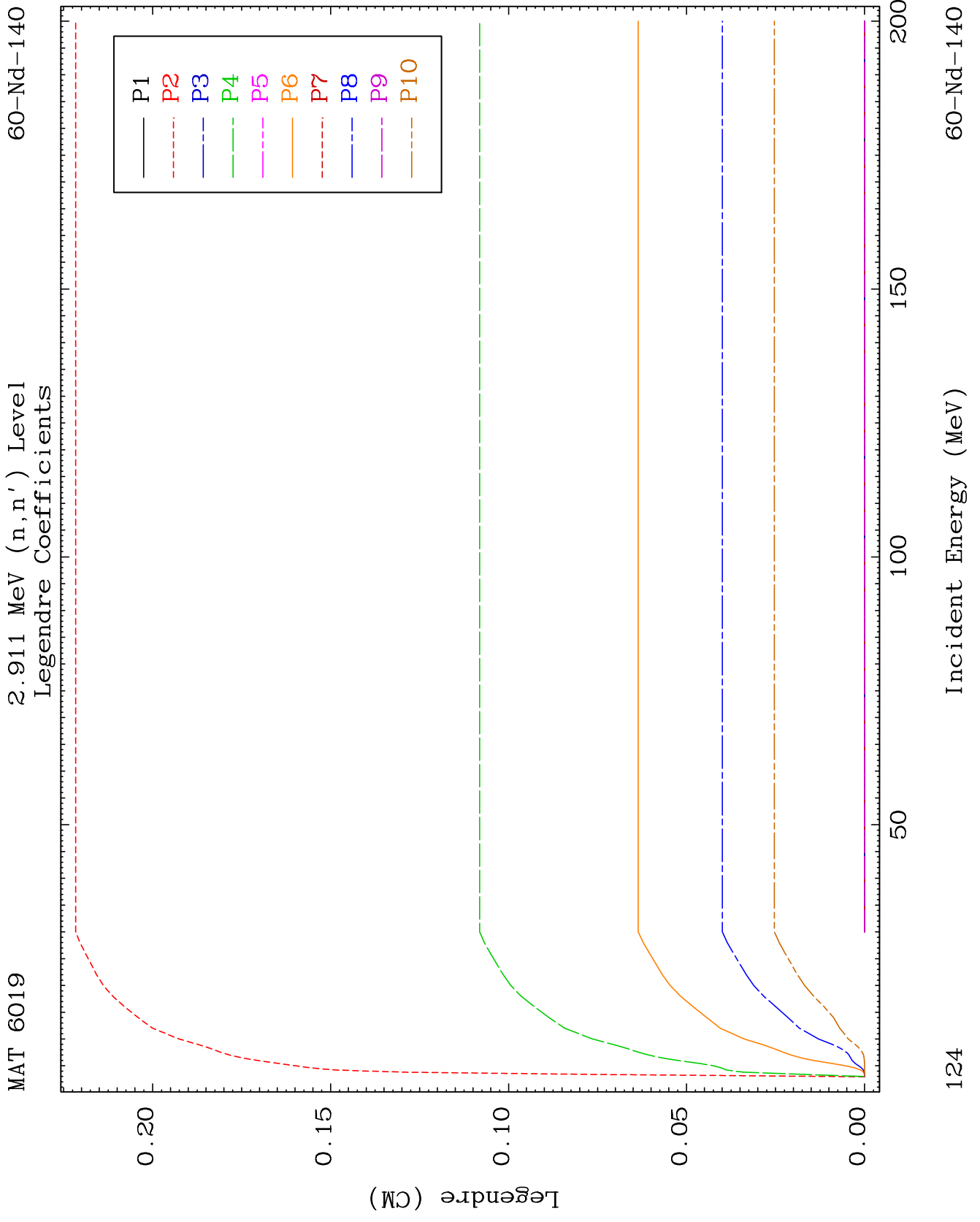
















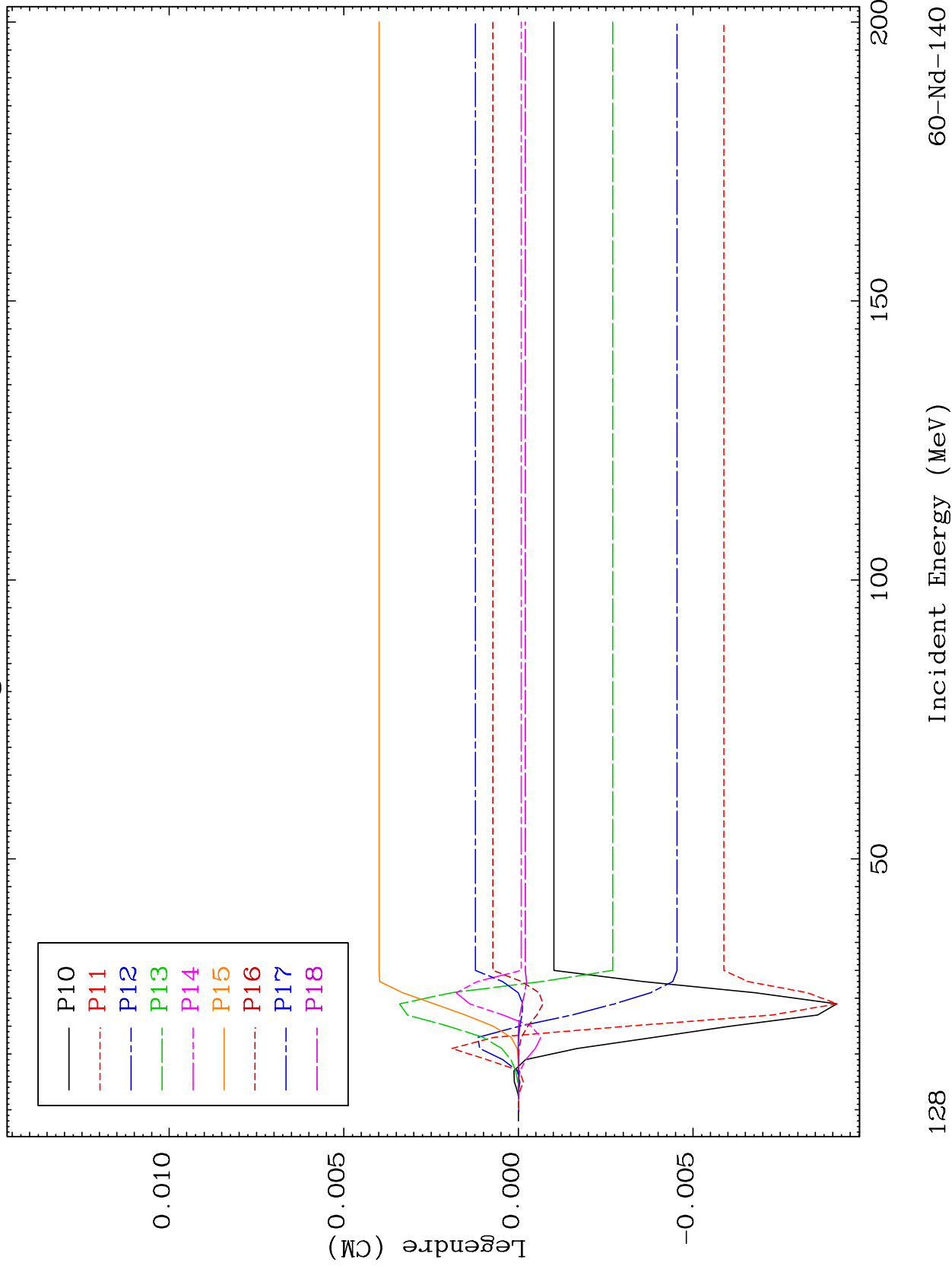




MAT 6019

2.943 MeV (n, n') Level  
Legendre Coefficients

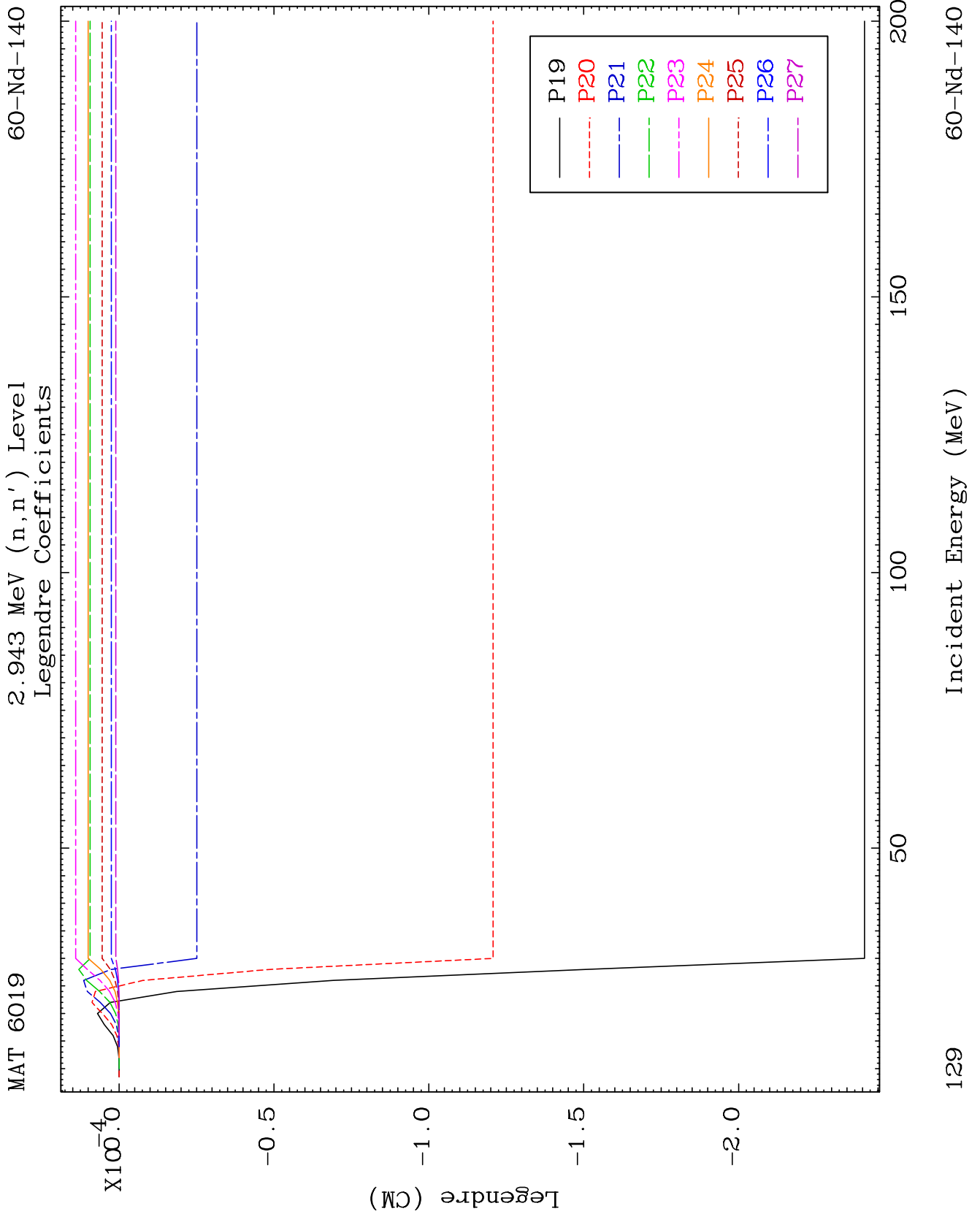
60-Nd-140

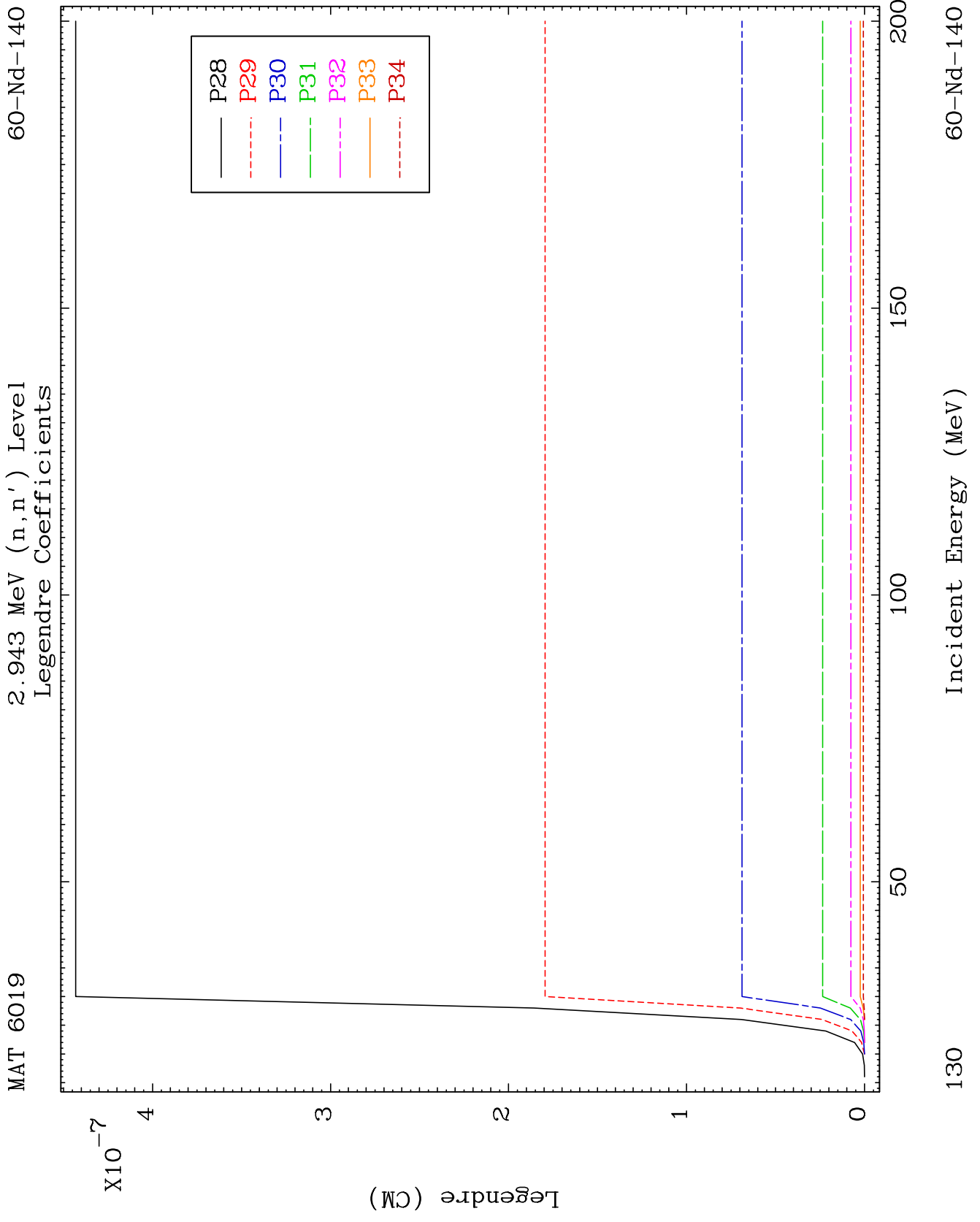


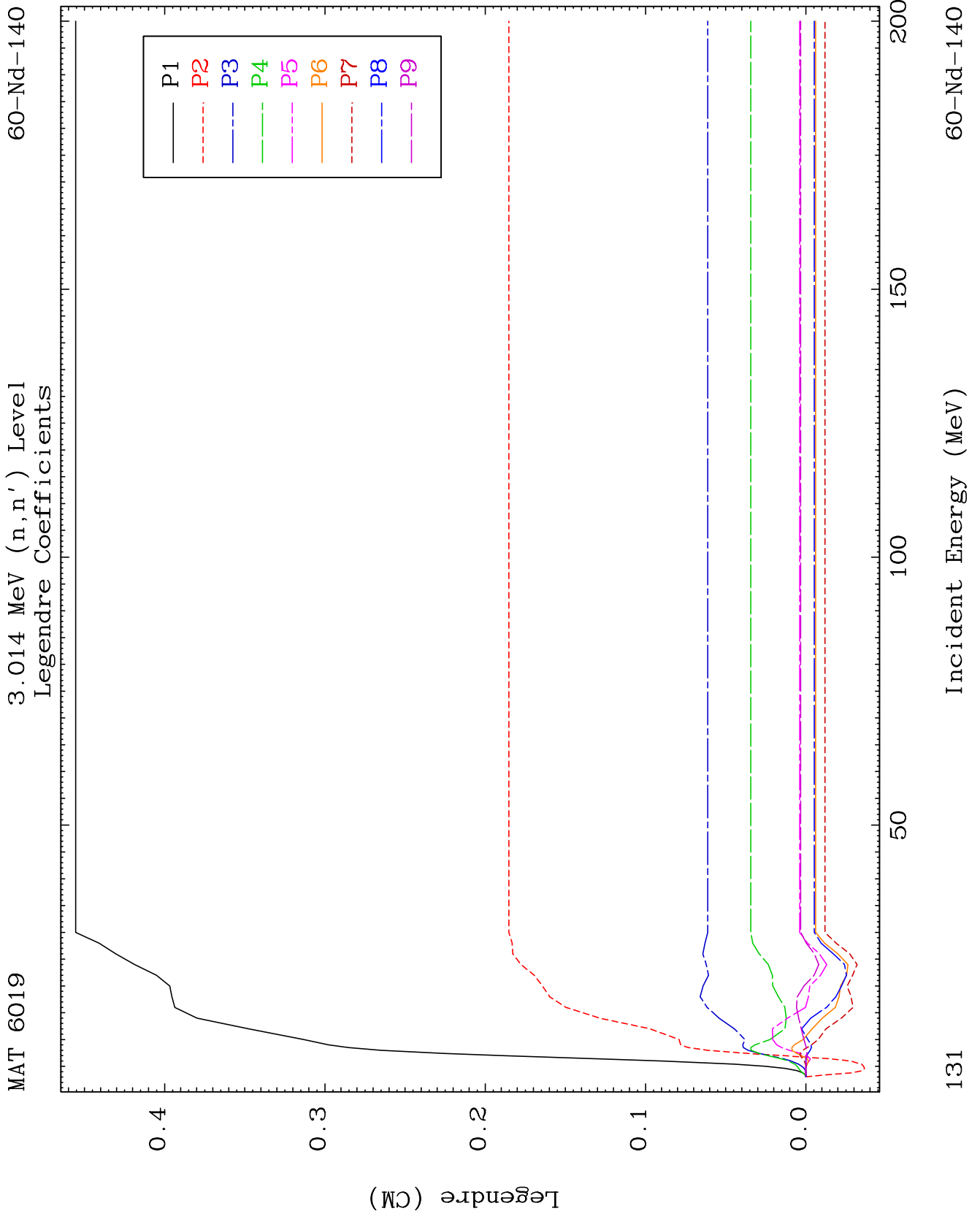
128

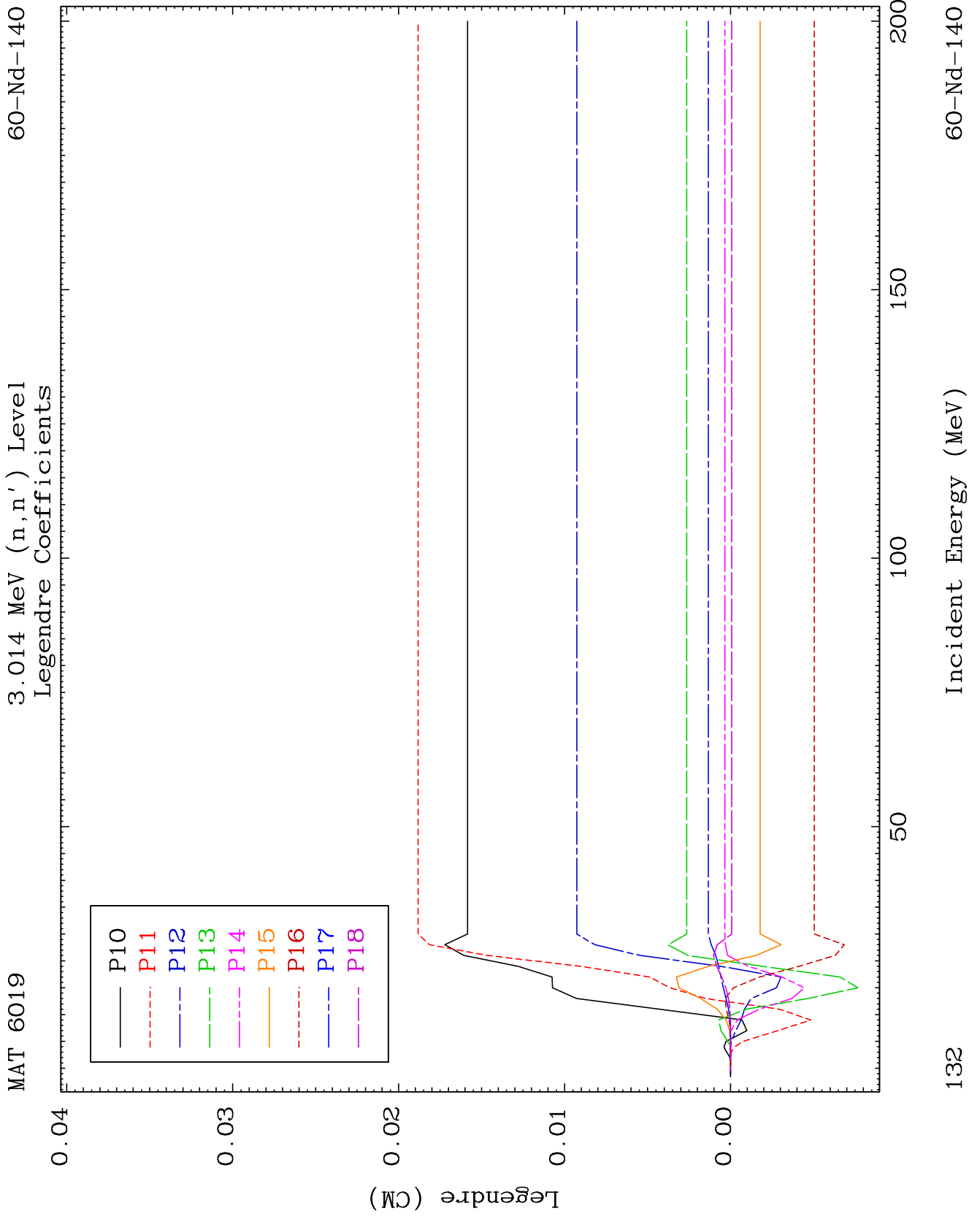
Incident Energy (MeV)

60-Nd-140





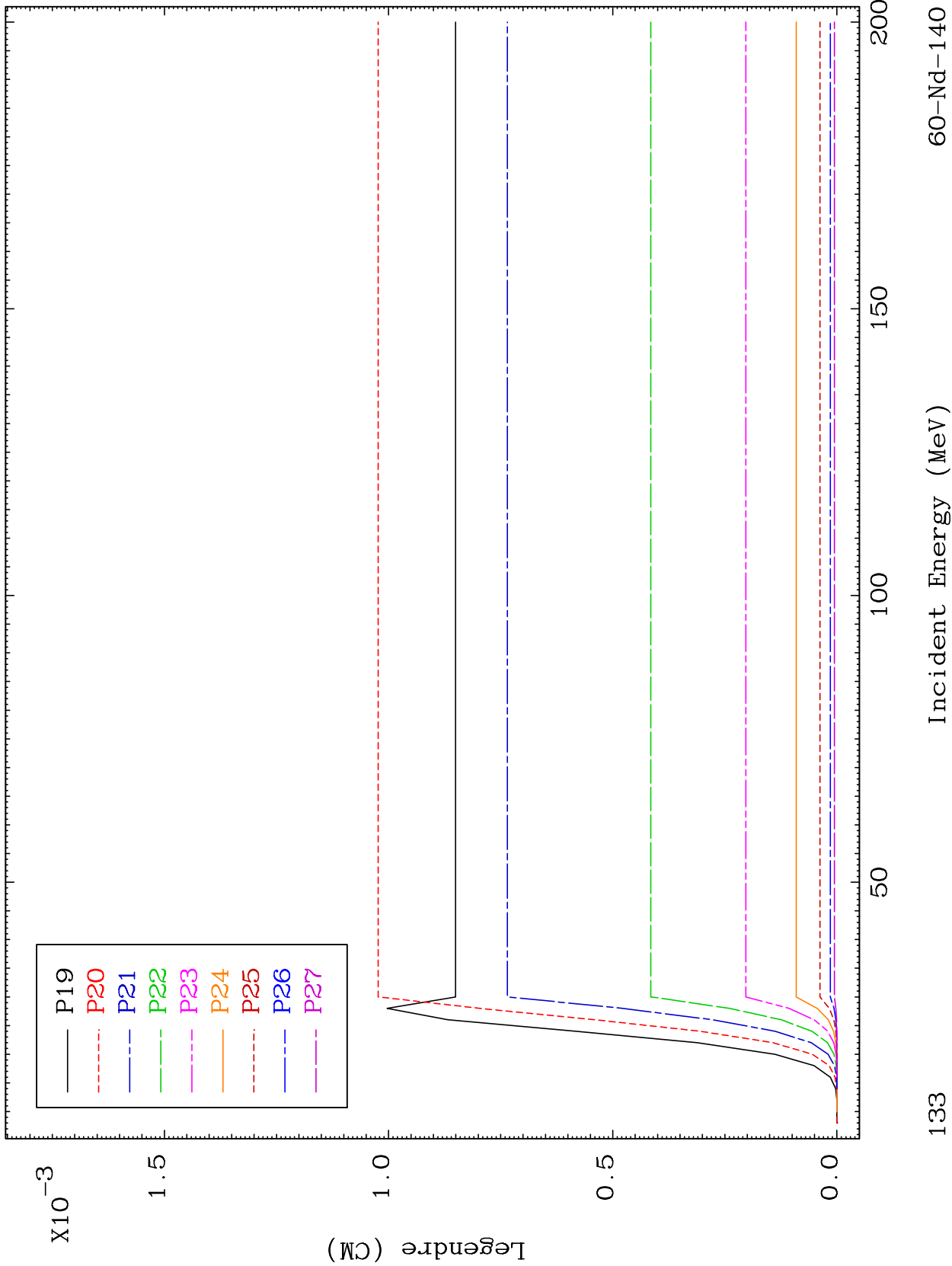


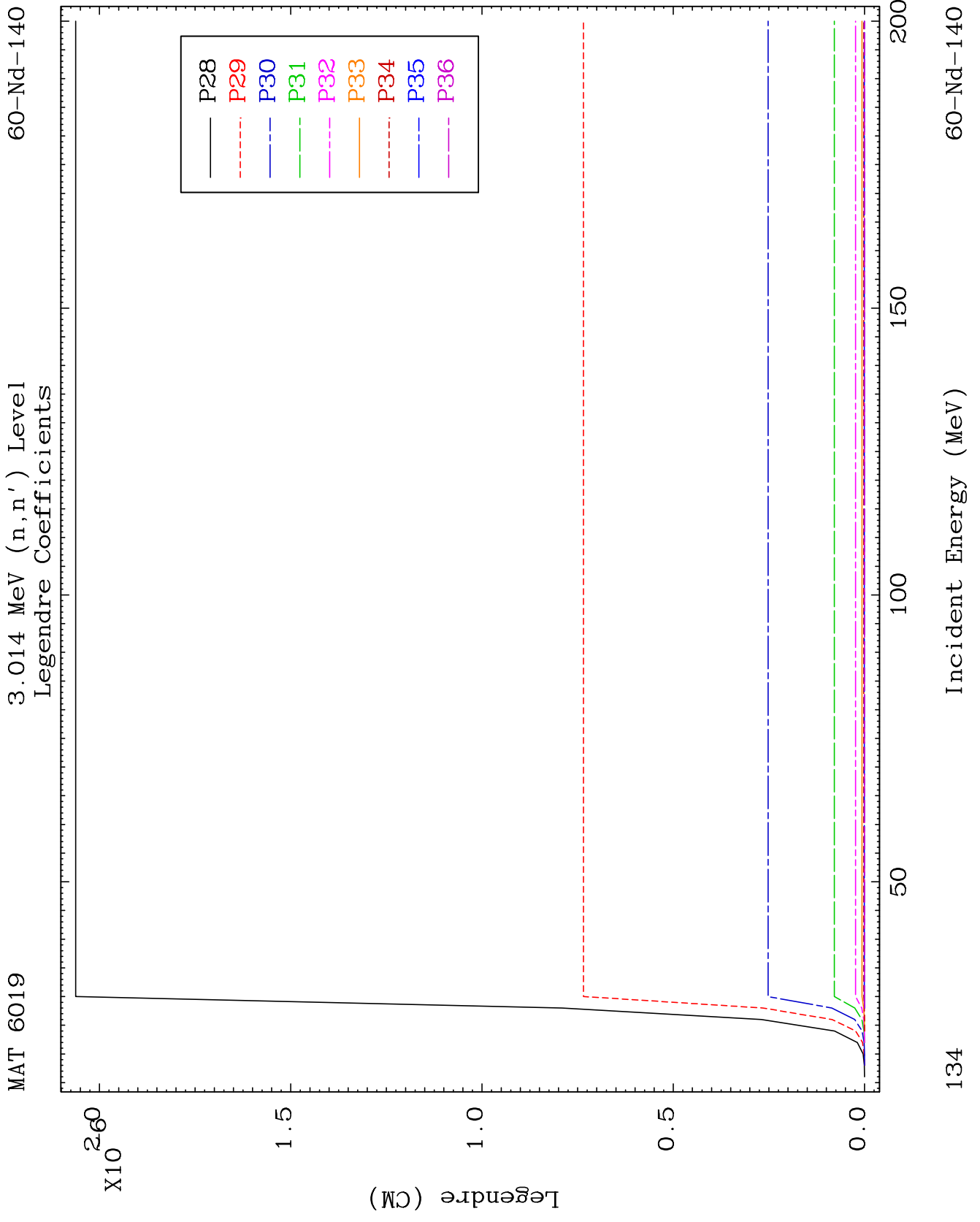


MAT 6019

3.014 MeV (n,n') Level  
Legendre Coefficients

60-Nd-140

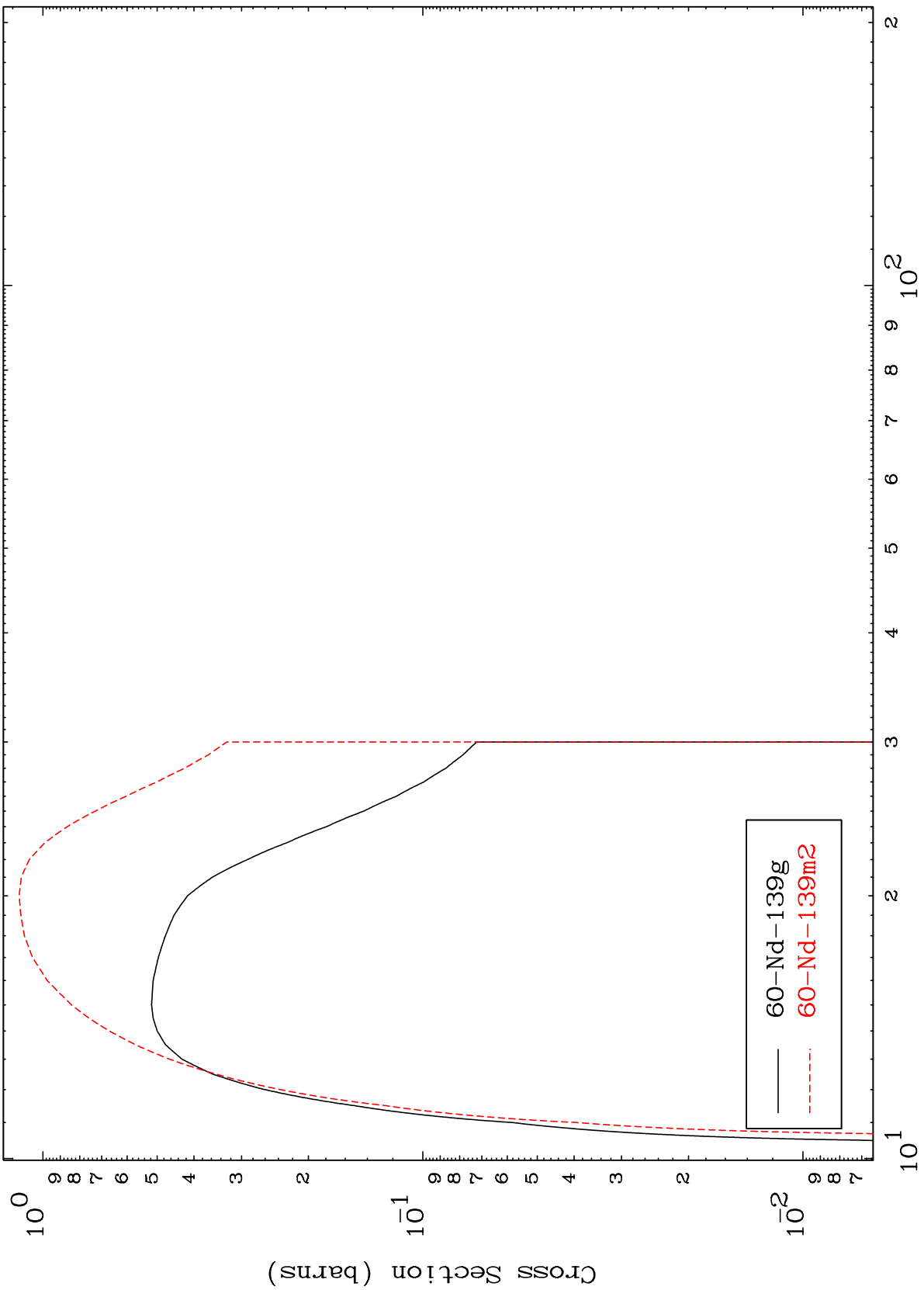




MAT 6019

60-Nd-140

(n,2n)  
Radionuclide Production Cross Section



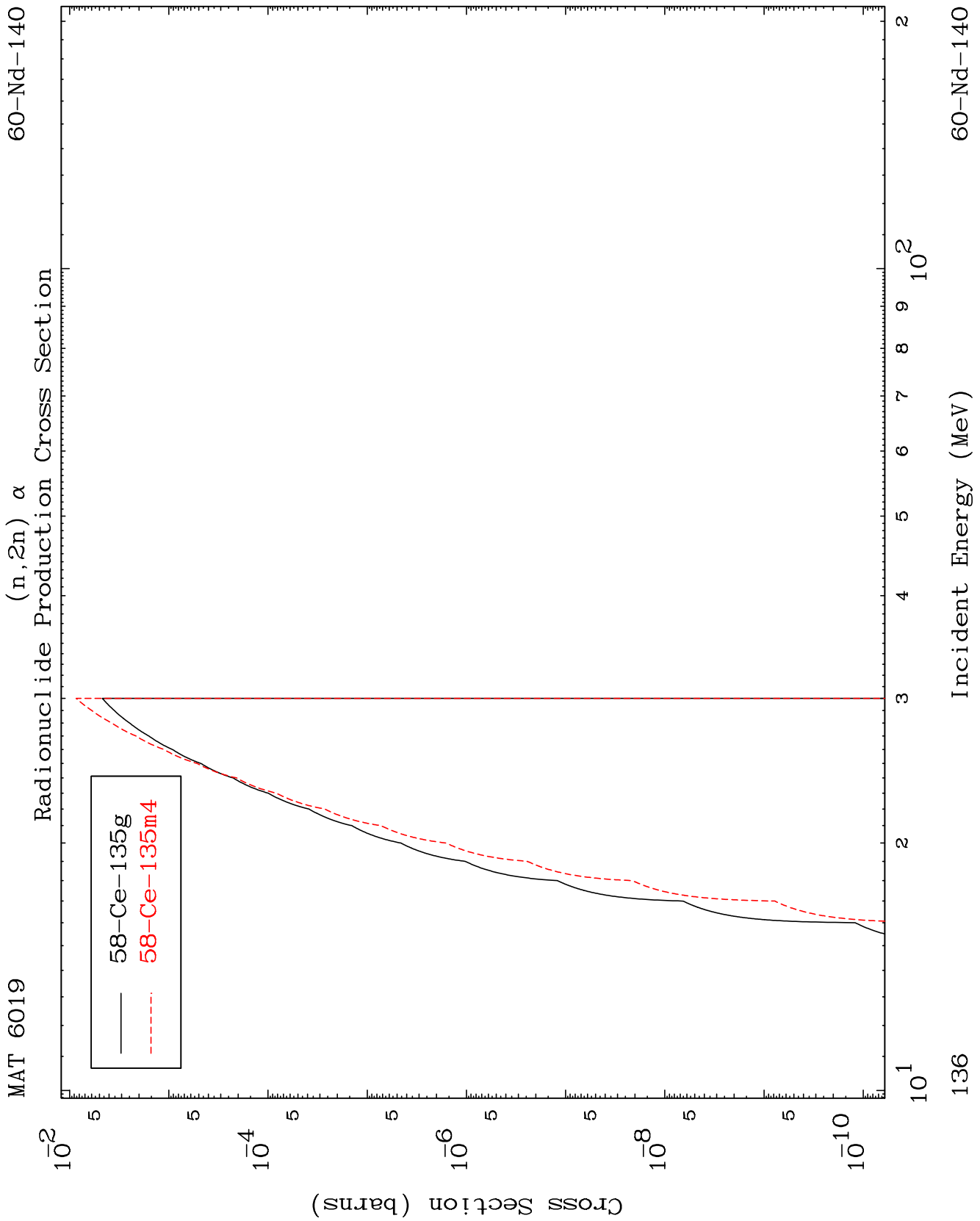
60-Nd-139g  
60-Nd-139m2

60-Nd-140

Incident Energy (MeV)

135



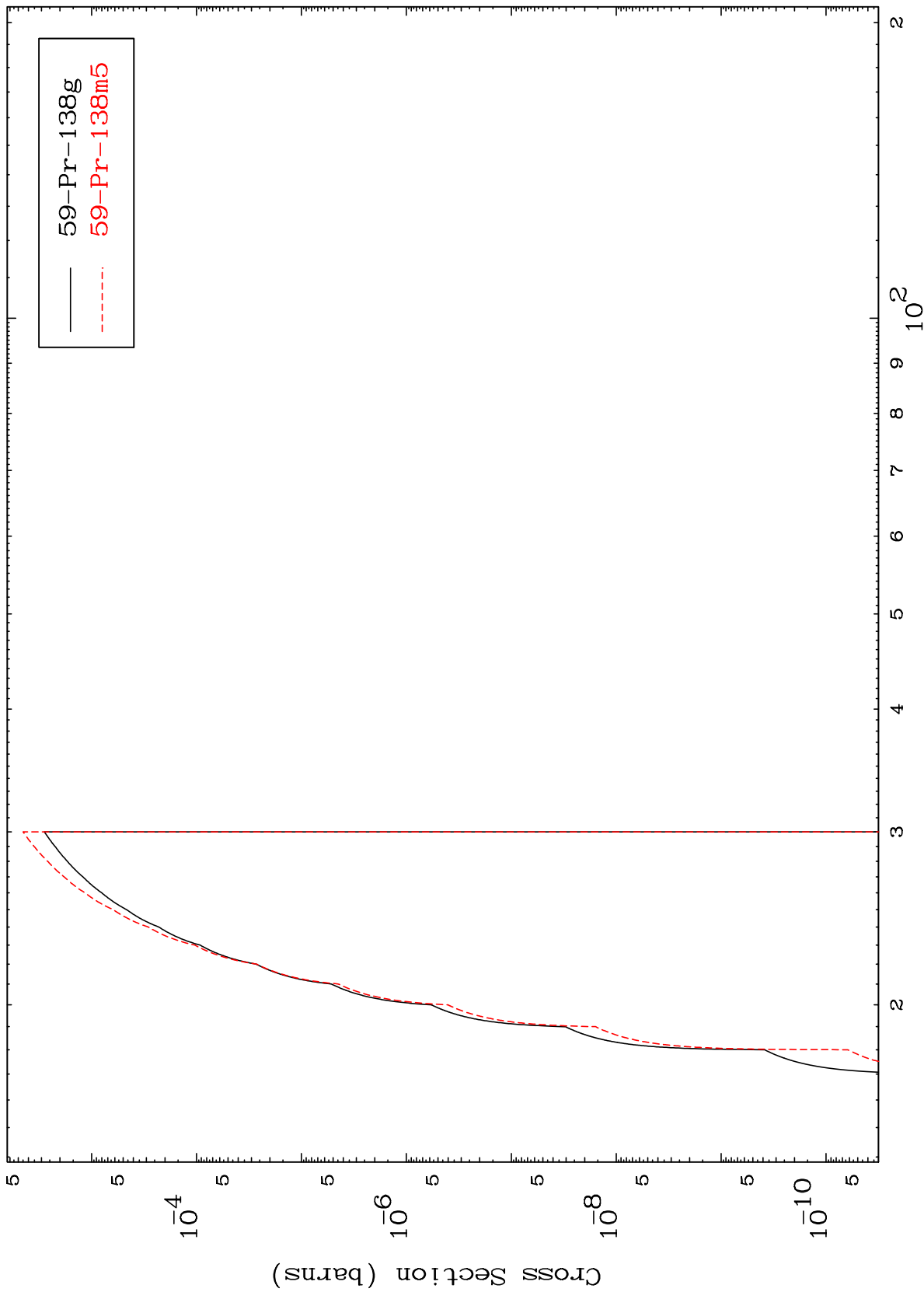


MAT 6019

(n,n') d

60-Nd-140

Radionuclide Production Cross Section



59-Pr-138g  
59-Pr-138m5

137

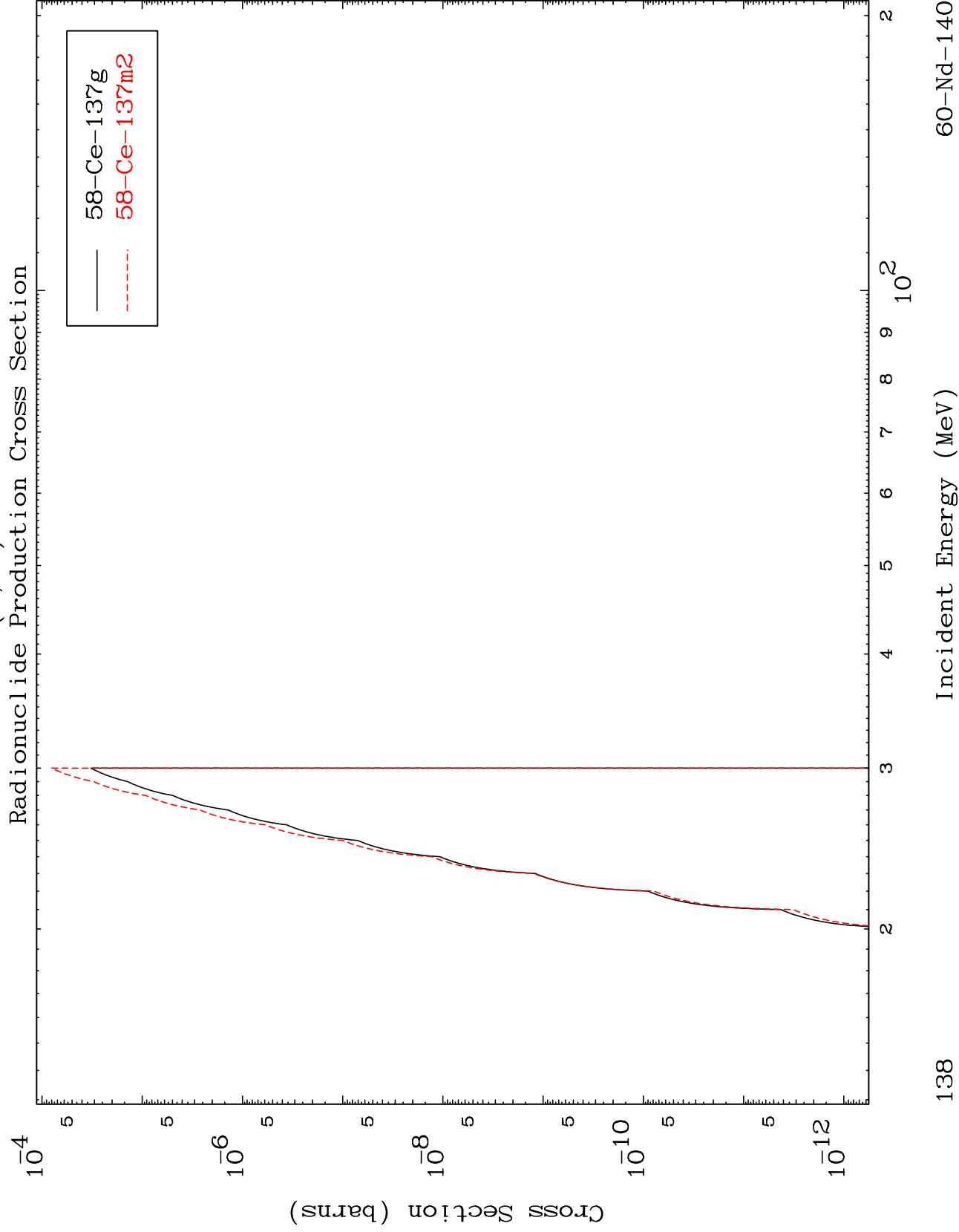
Incident Energy (MeV)

60-Nd-140

MAT 6019

(n,n') He-3

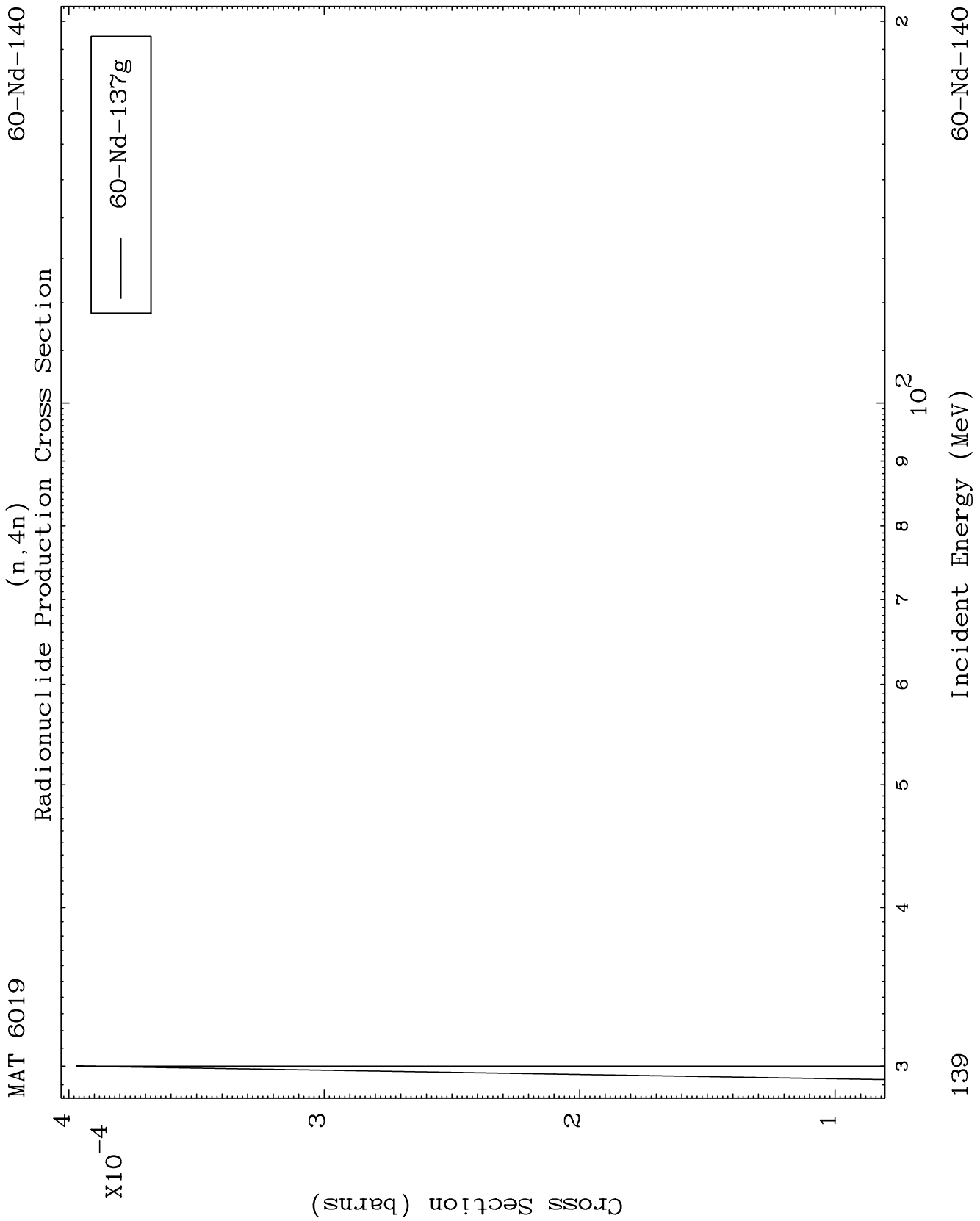
60-Nd-140



138

Incident Energy (MeV)

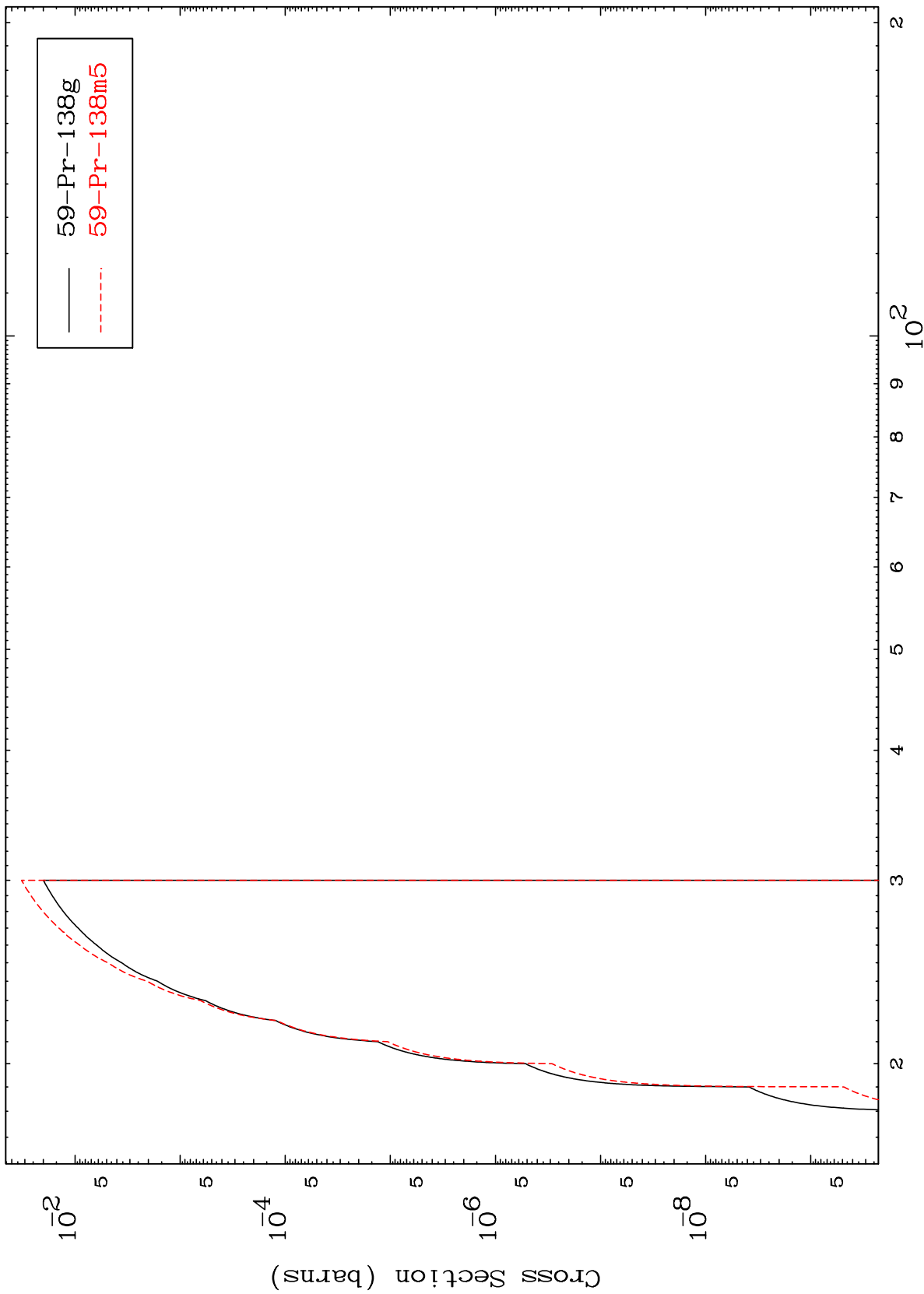
60-Nd-140



MAT 6019

60-Nd-140

$(n,2n)$  p  
Radionuclide Production Cross Section



60-Nd-140

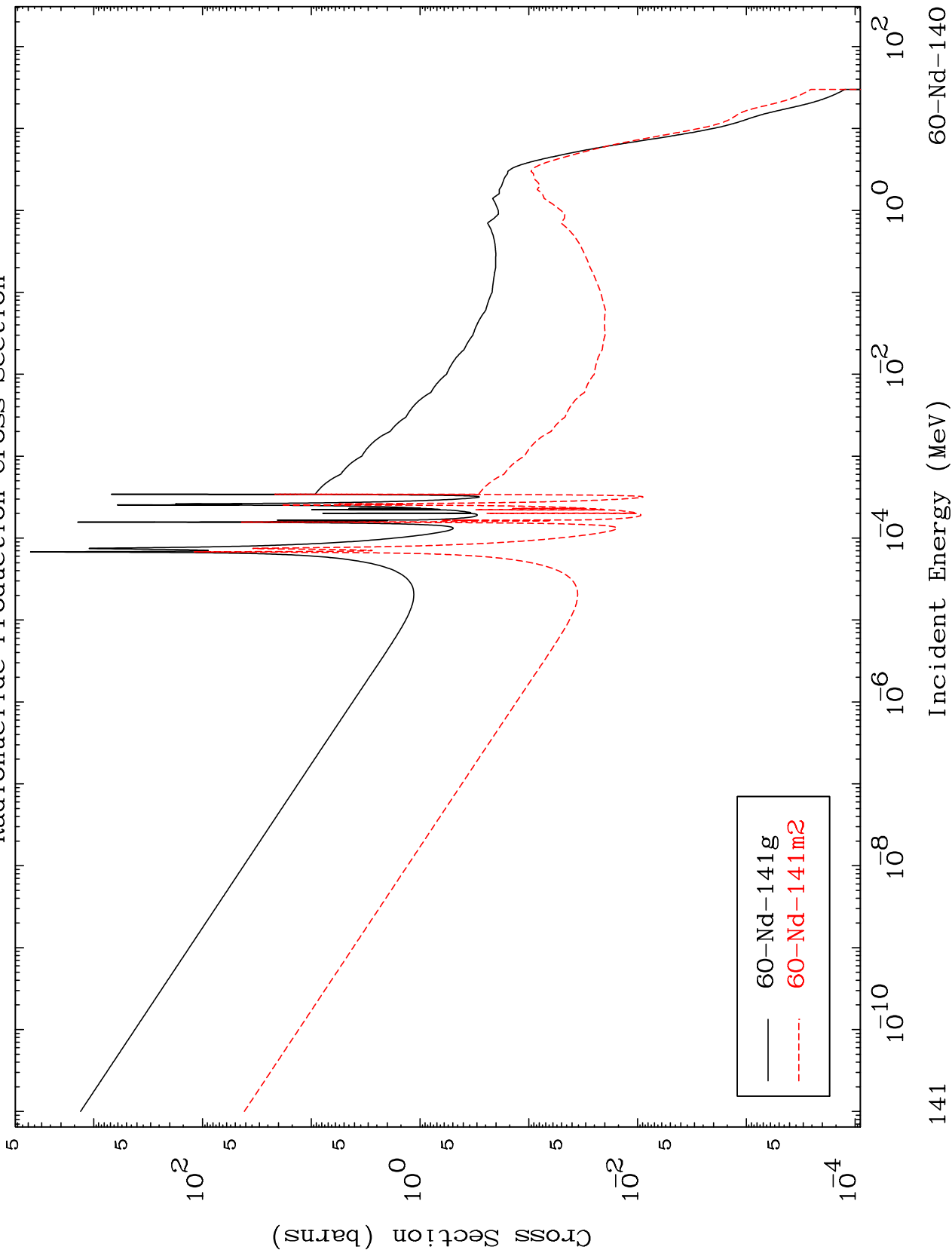
Incident Energy (MeV)

140

MAT 6019

60-Nd-140

$(n, \gamma)$   
Radionuclide Production Cross Section



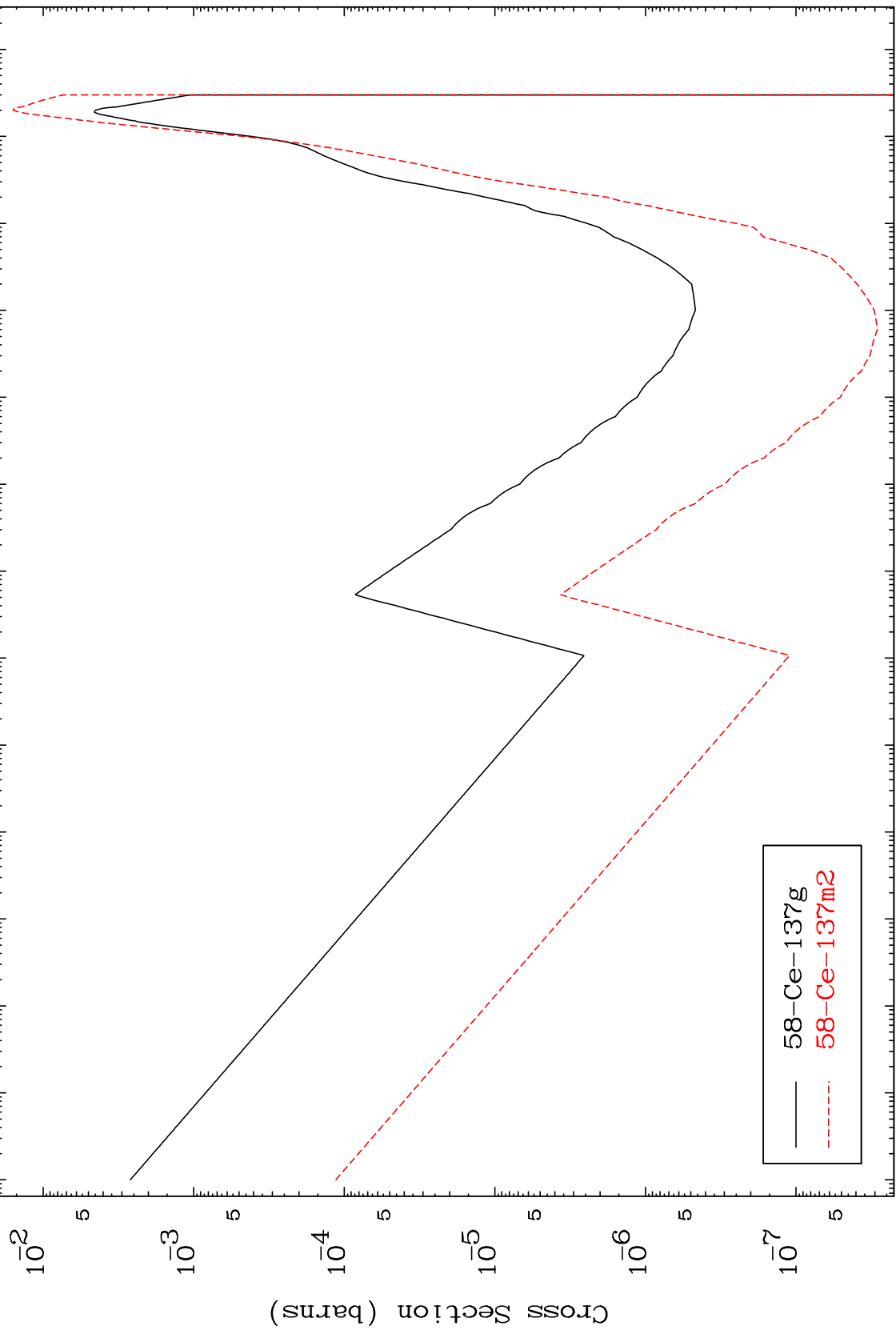
141



MAT 6019

60-Nd-140

Radionuclide Production Cross Section  
(n,  $\alpha$ )



60-Nd-140

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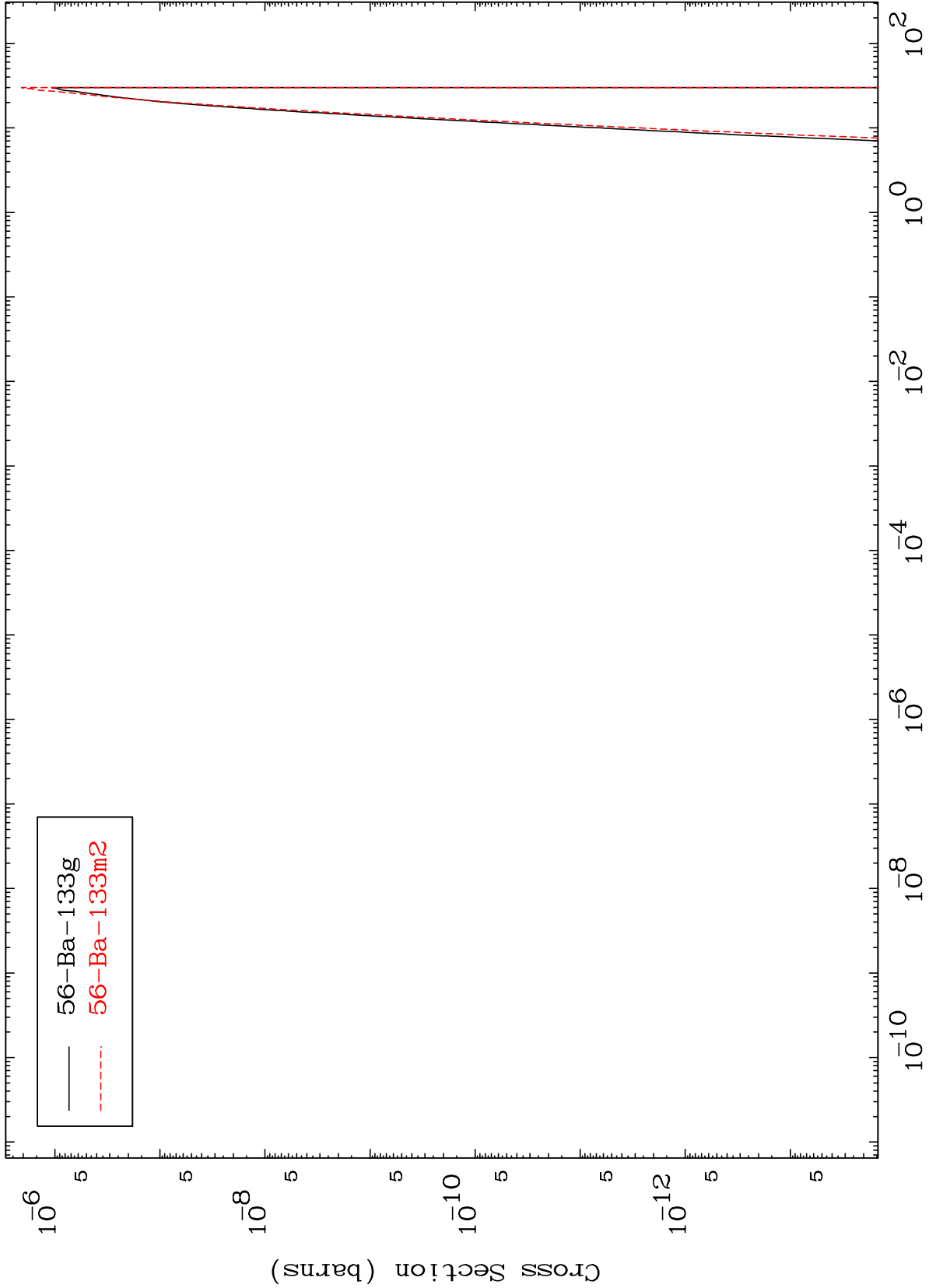


MAT 6019

(n,2α)

60-Nd-140

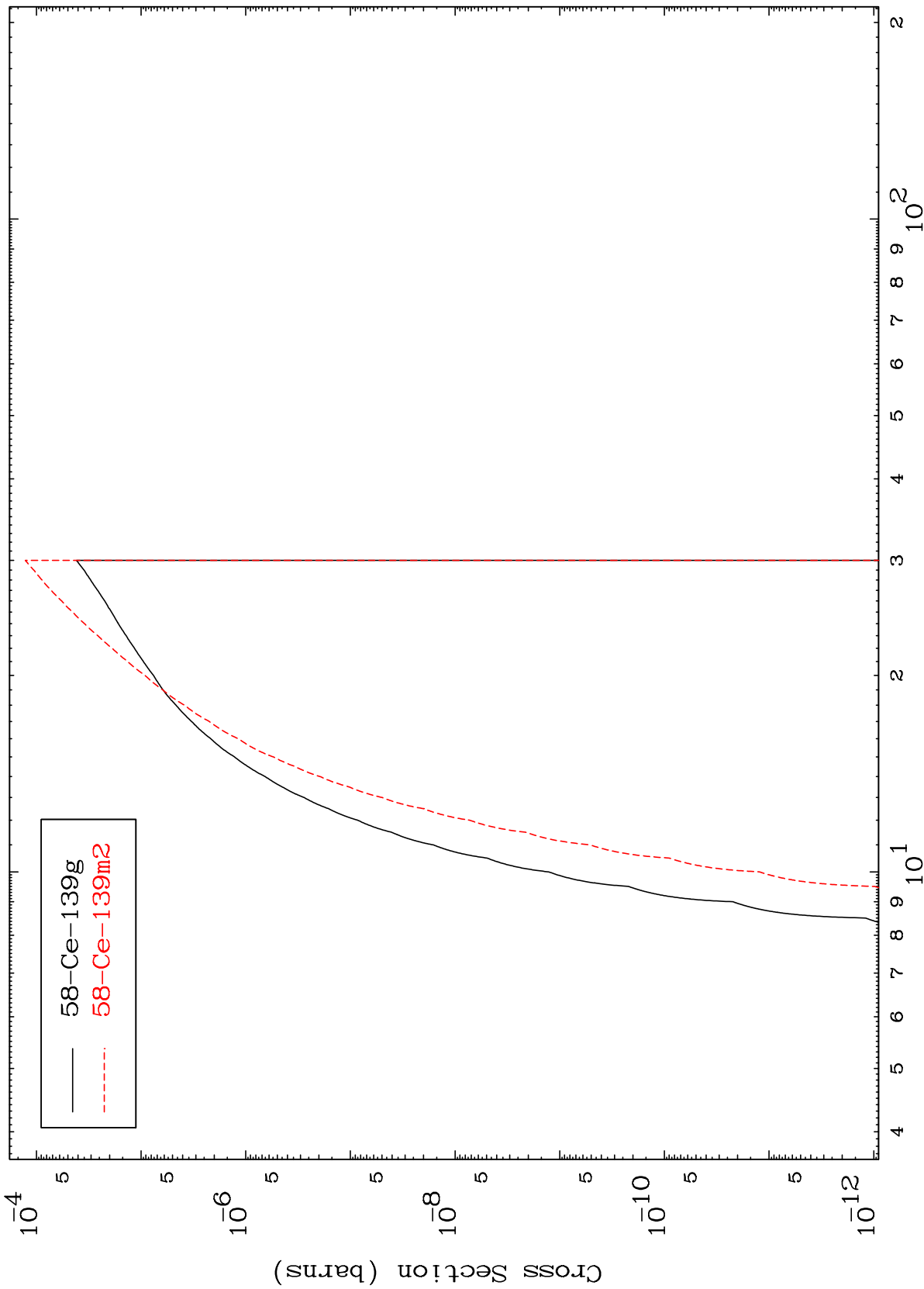
Radionuclide Production Cross Section



MAT 6019

60-Nd-140

Radionuclide Production Cross Section  
(n,2p)



58-Ce-139g  
58-Ce-139m2

60-Nd-140

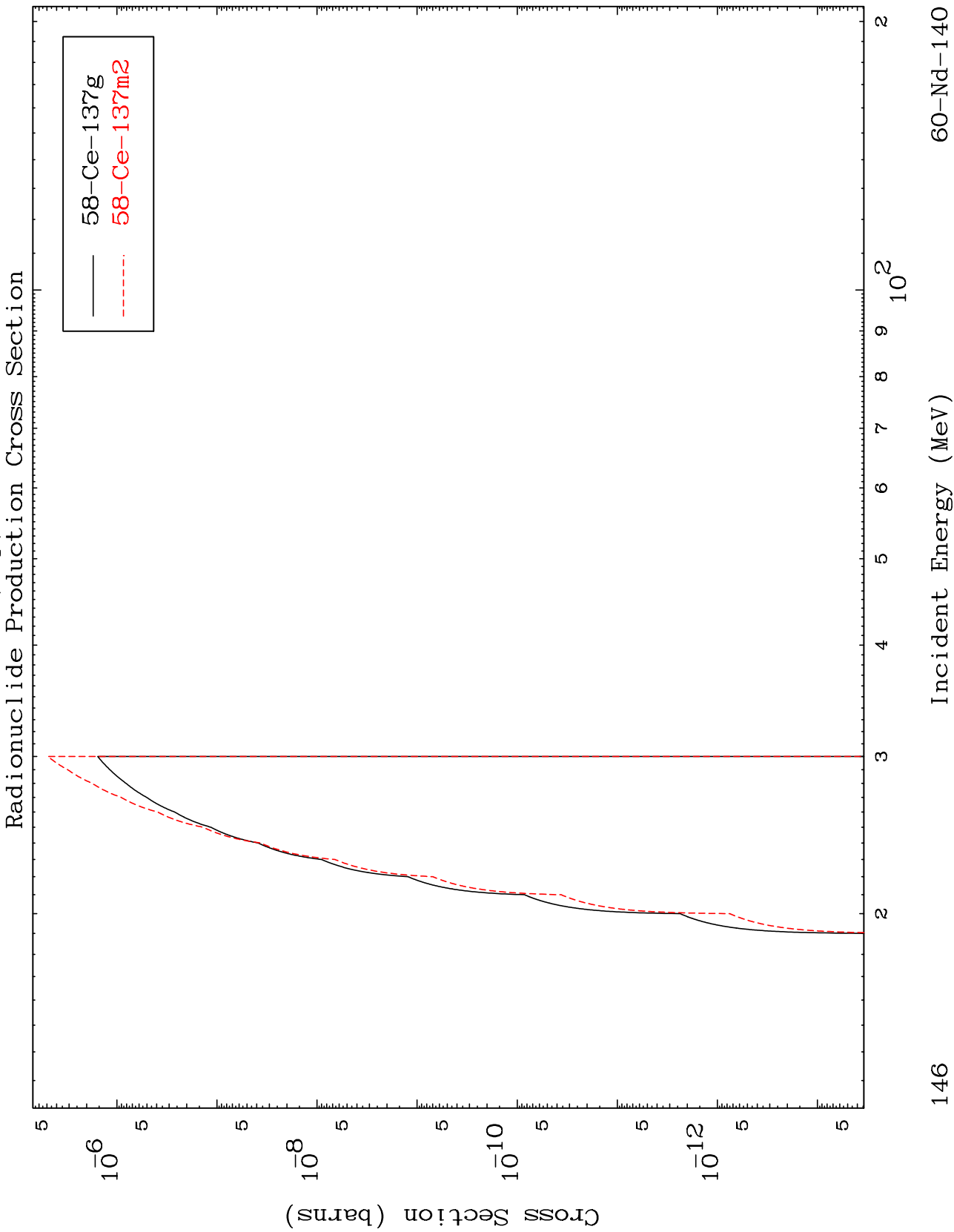
Incident Energy (MeV)

145

MAT 6019

(n,p) t

60-Nd-140



146

Incident Energy (MeV)

60-Nd-140