

Program EVALPLOT
(Version 2015-2)

by

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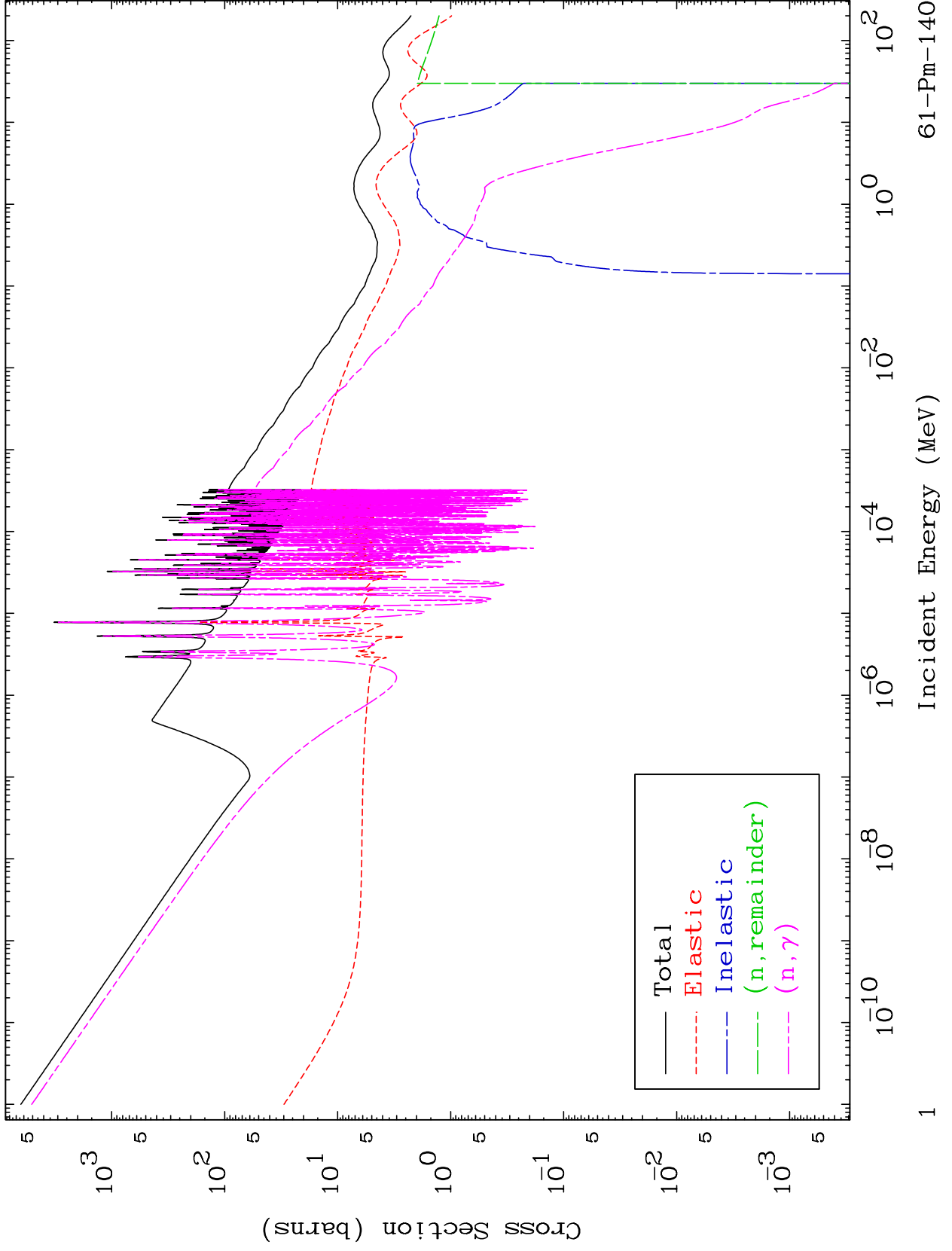
E.Mail:redcullen1@comcast.net
Web:home.comcast.net/~redcullen1

Press Mouse Button to Start

MAT 6128

Major
293 Kelvin Cross Sections

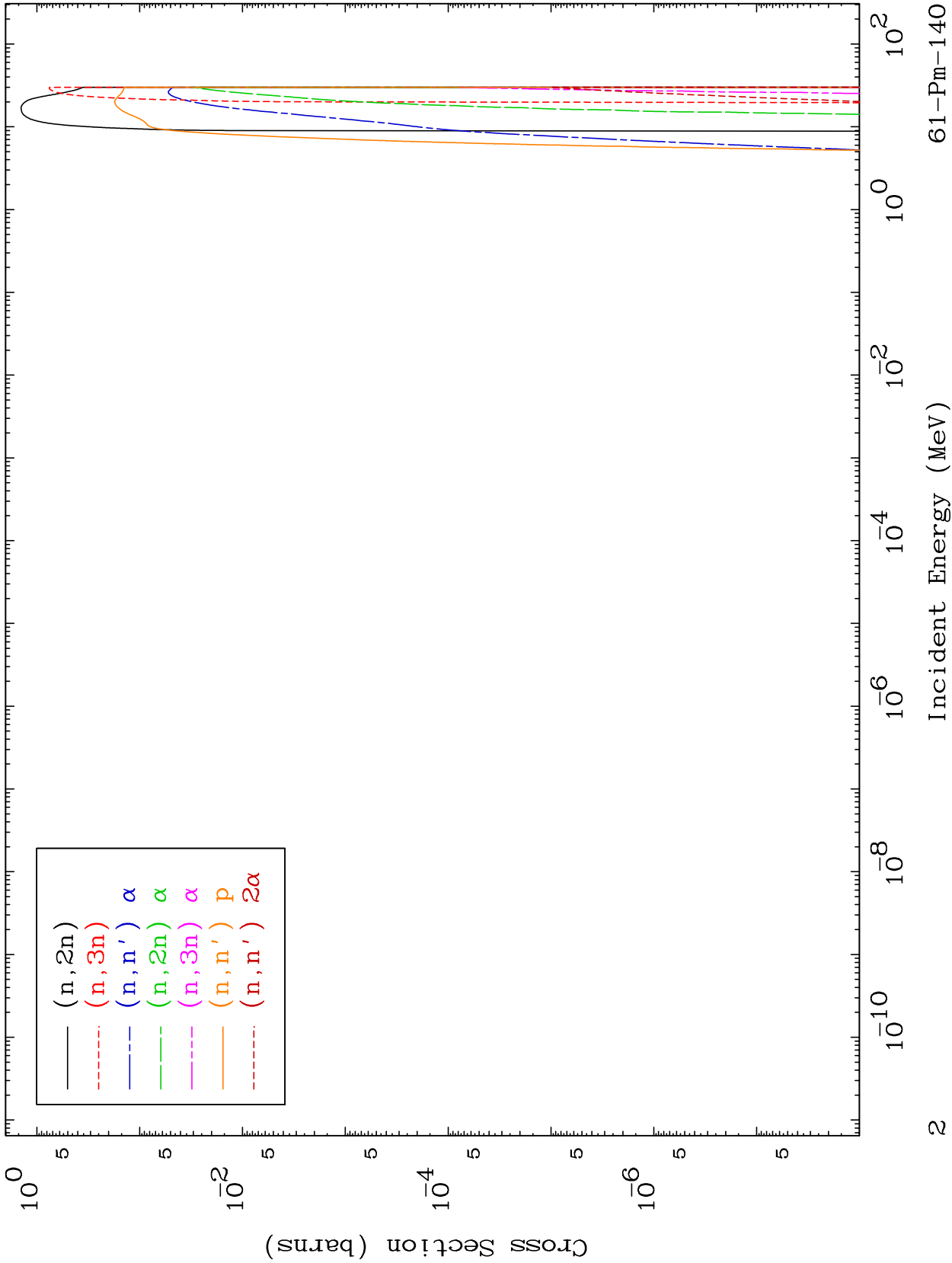
61-Pm-140

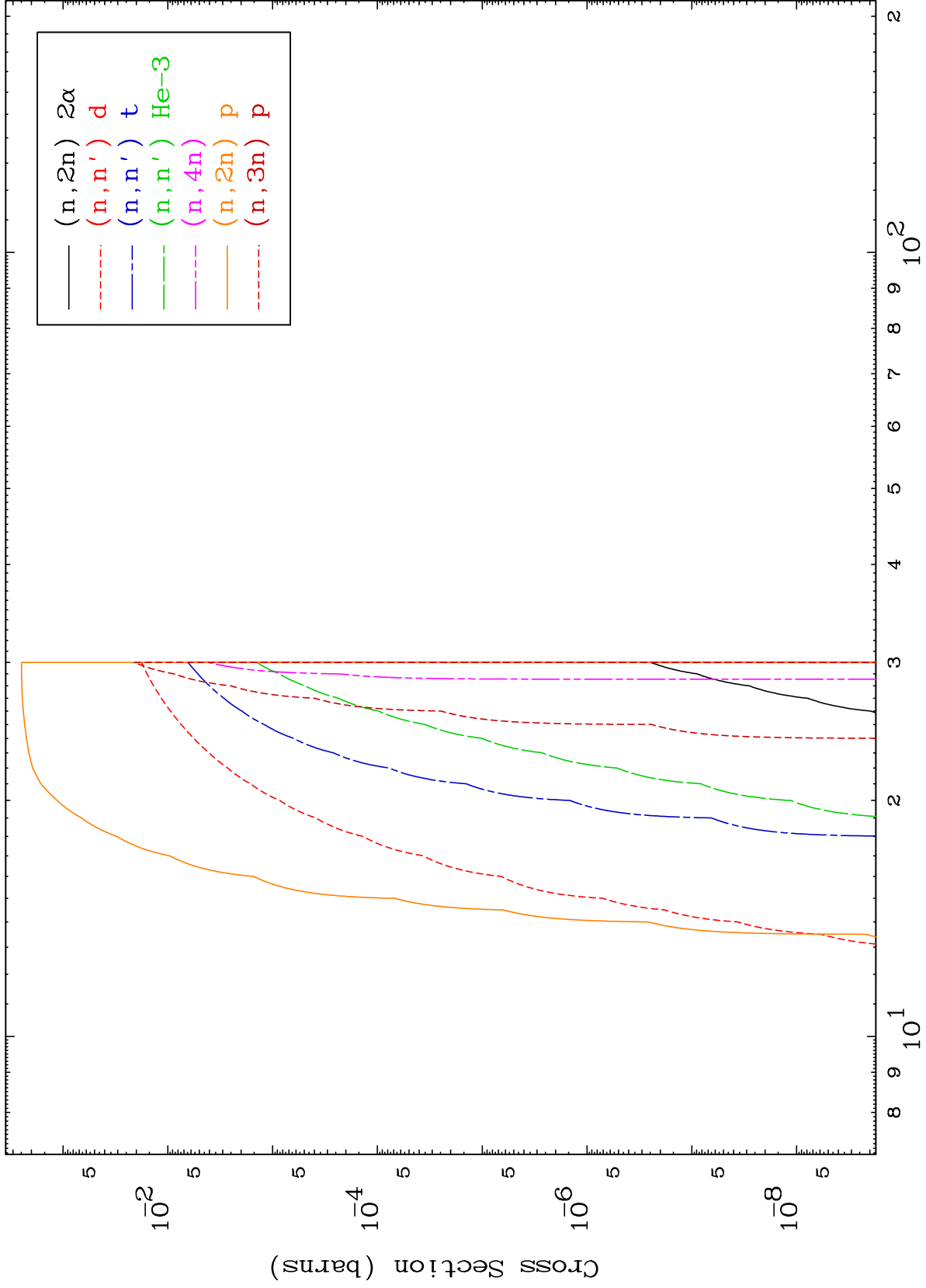


MAT 6128

Neutron Production
293 Kelvin Cross Sections

61-Pm-140

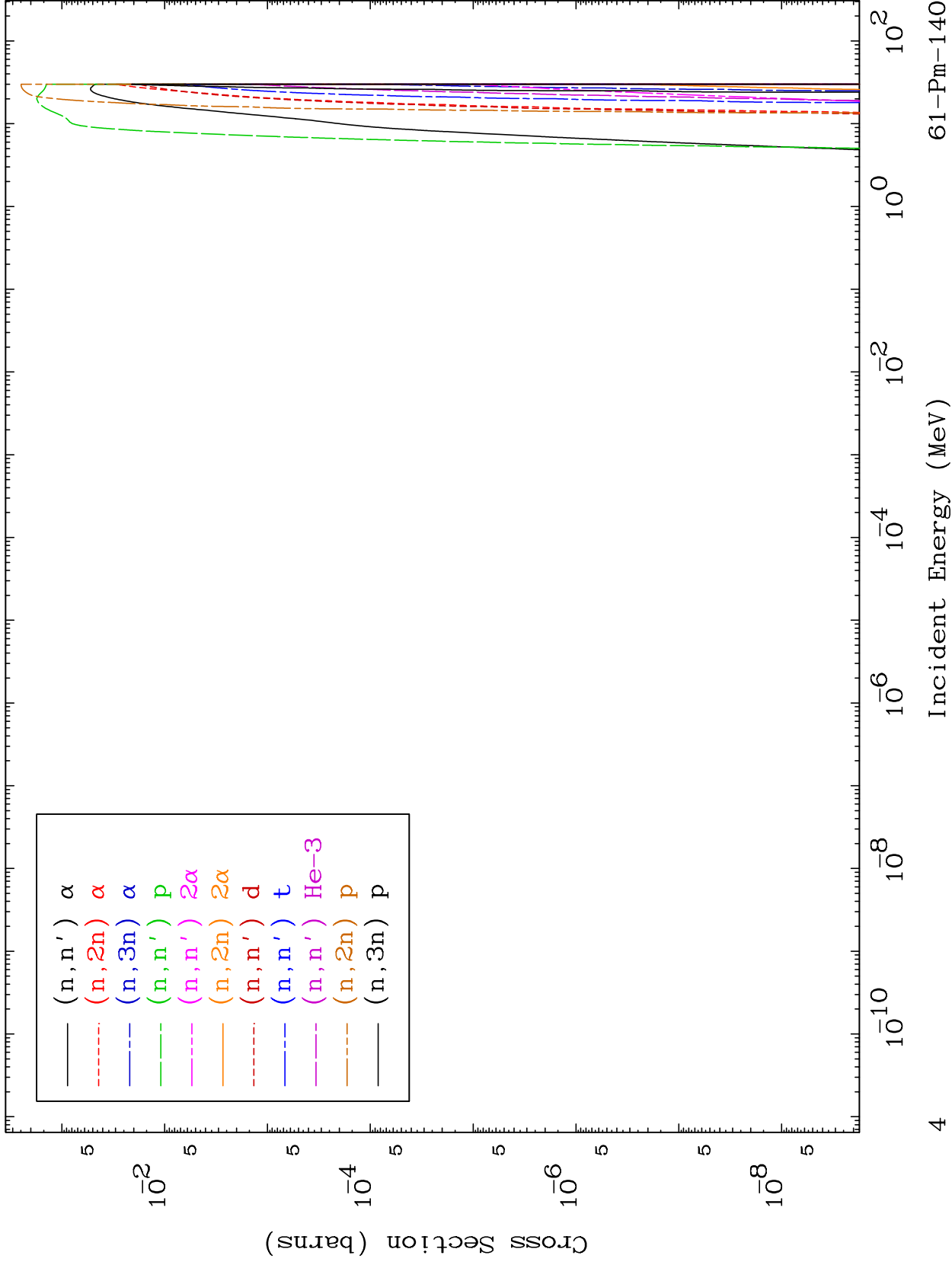




MAT 6128

Charged Particle
293 Kelvin Cross Sections

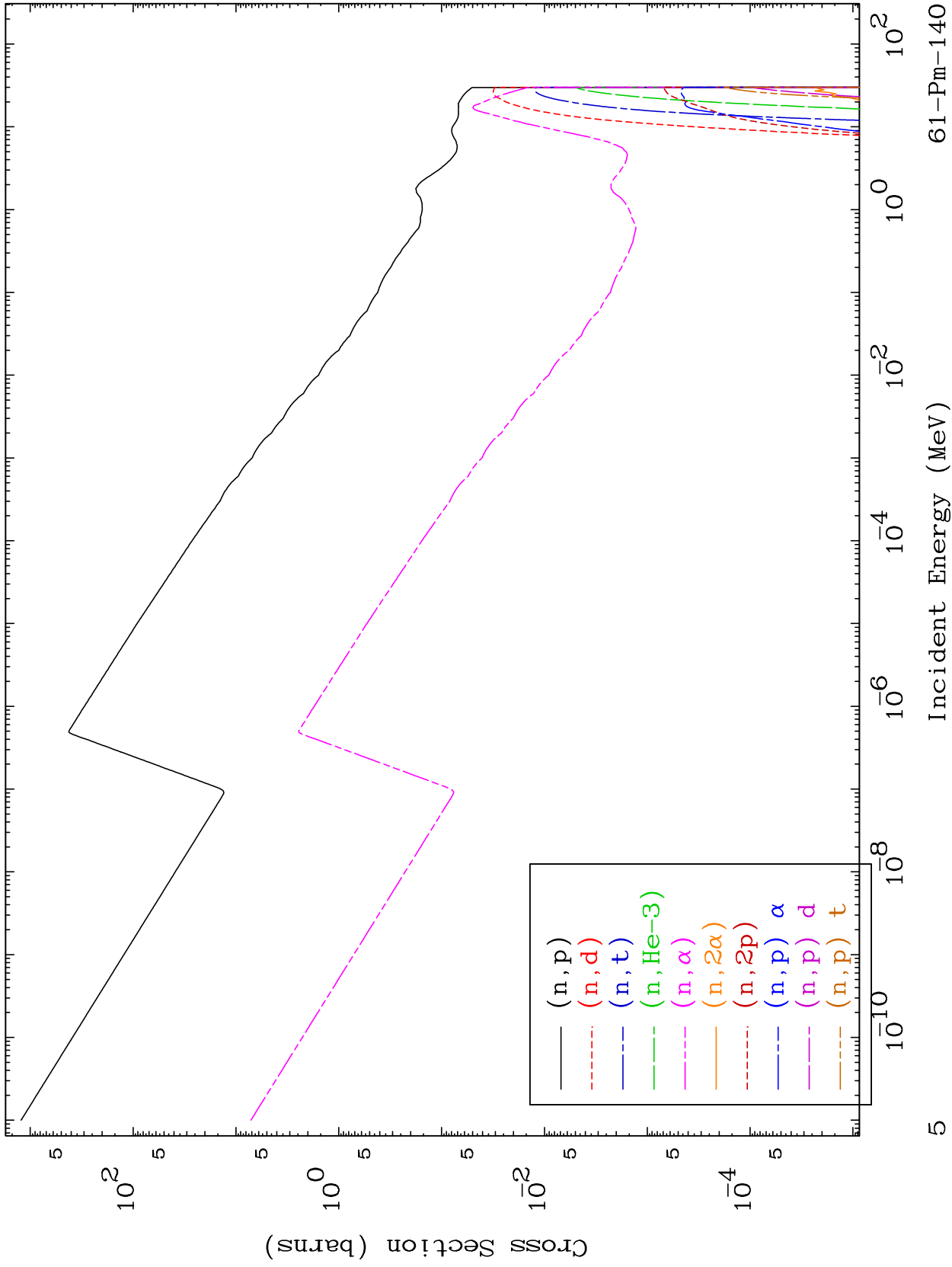
61-Pm-140



MAT 6128

Charged Particle
293 Kelvin Cross Sections

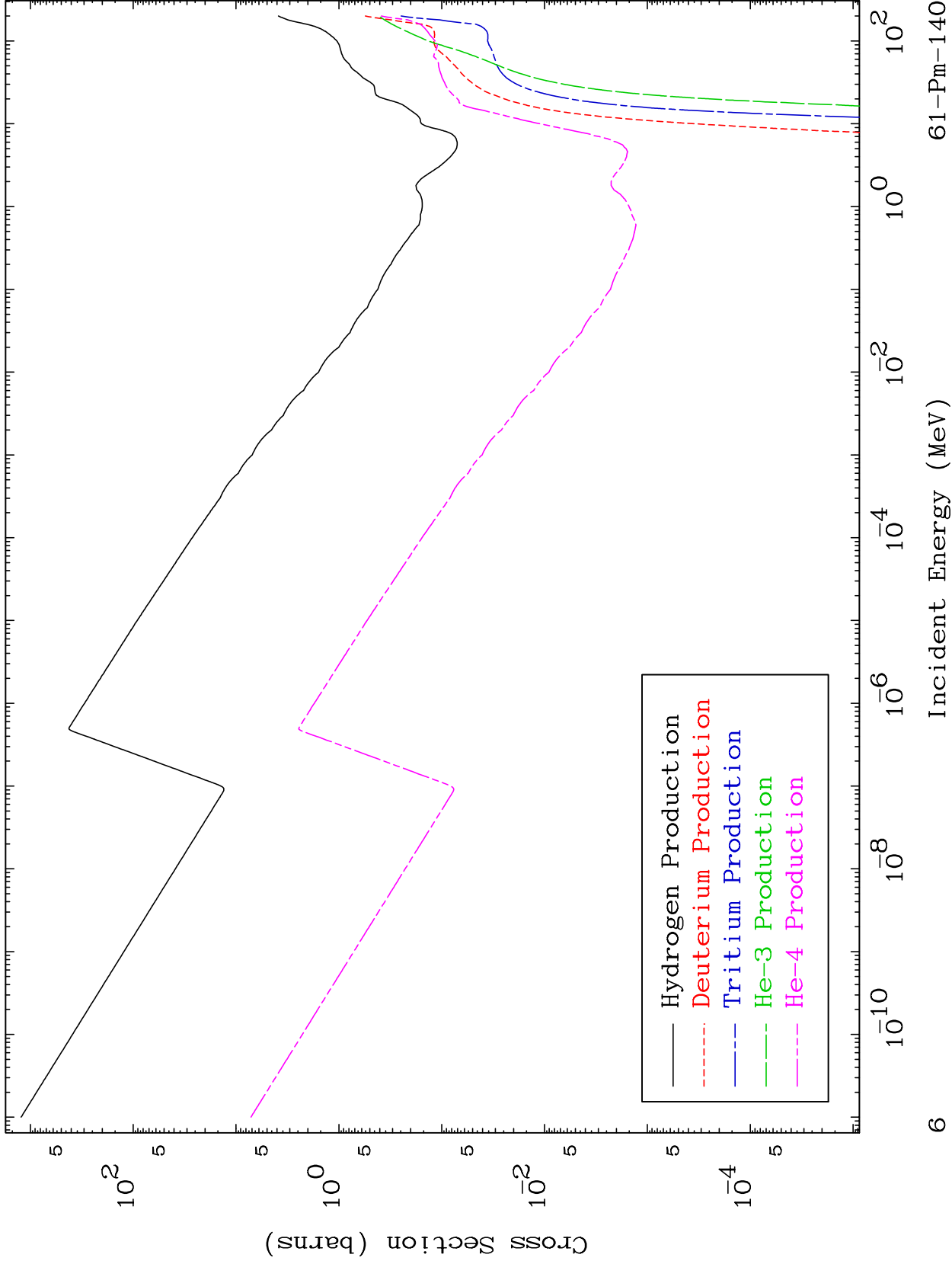
61-Pm-140



MAT 6128

Particle Production
293 Kelvin Cross Sections

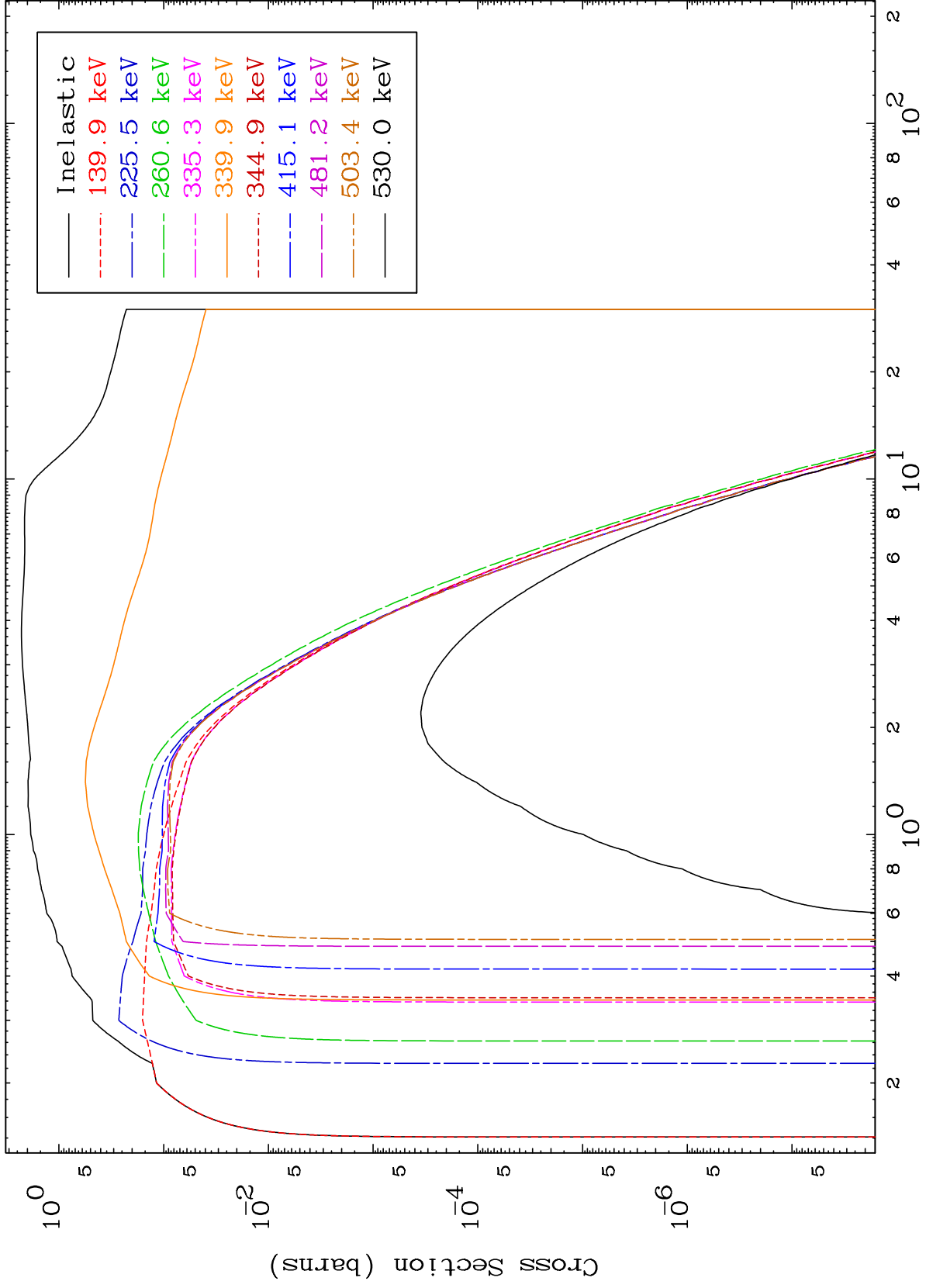
61-Pm-140



MAT 6128

(n,n') Level
293 Kelvin Cross Sections

61-Pm-140

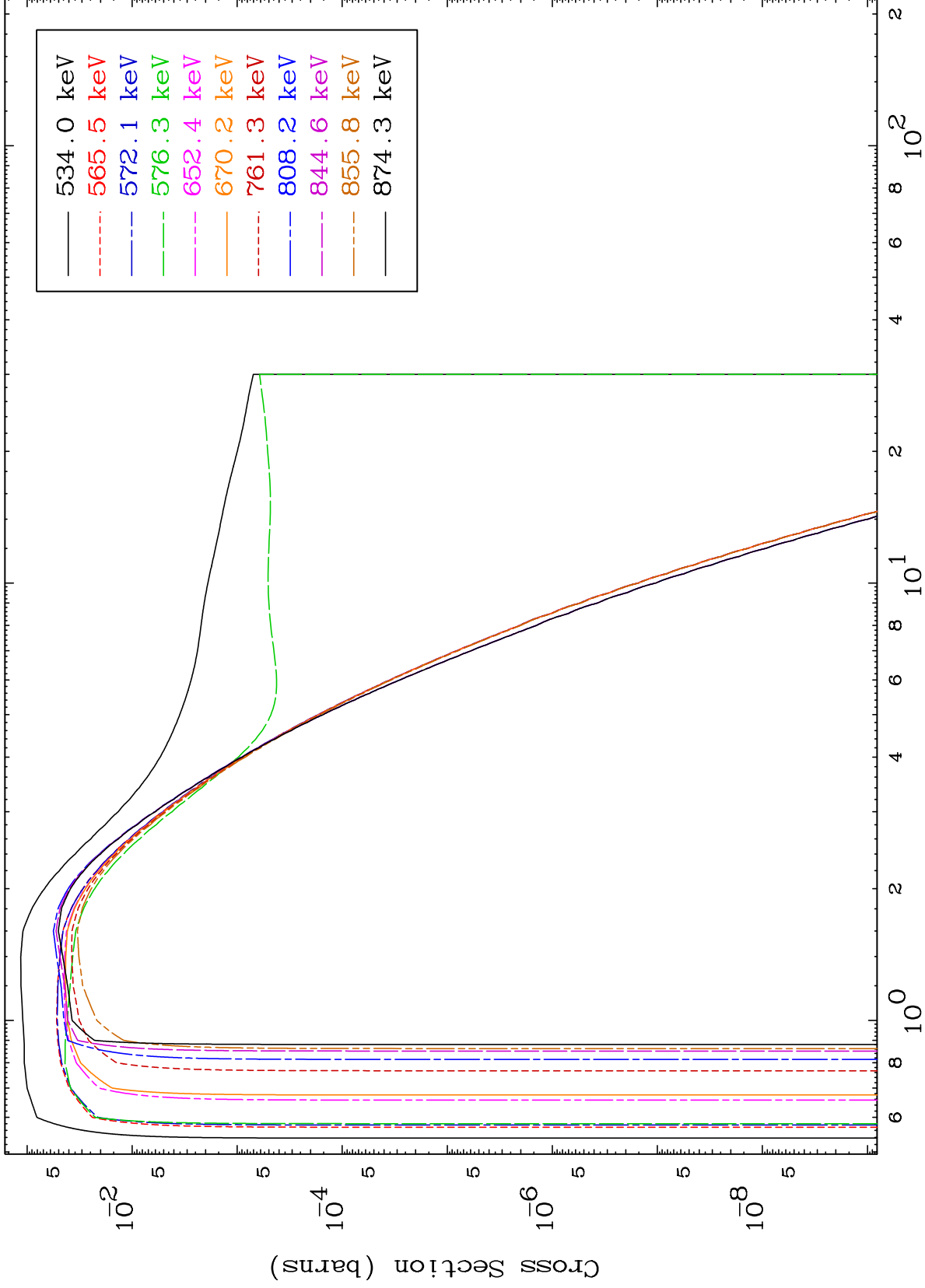


MAT 6128

(n,n') Level

61-Pm-140

293 Kelvin Cross Sections



8

Incident Energy (MeV)

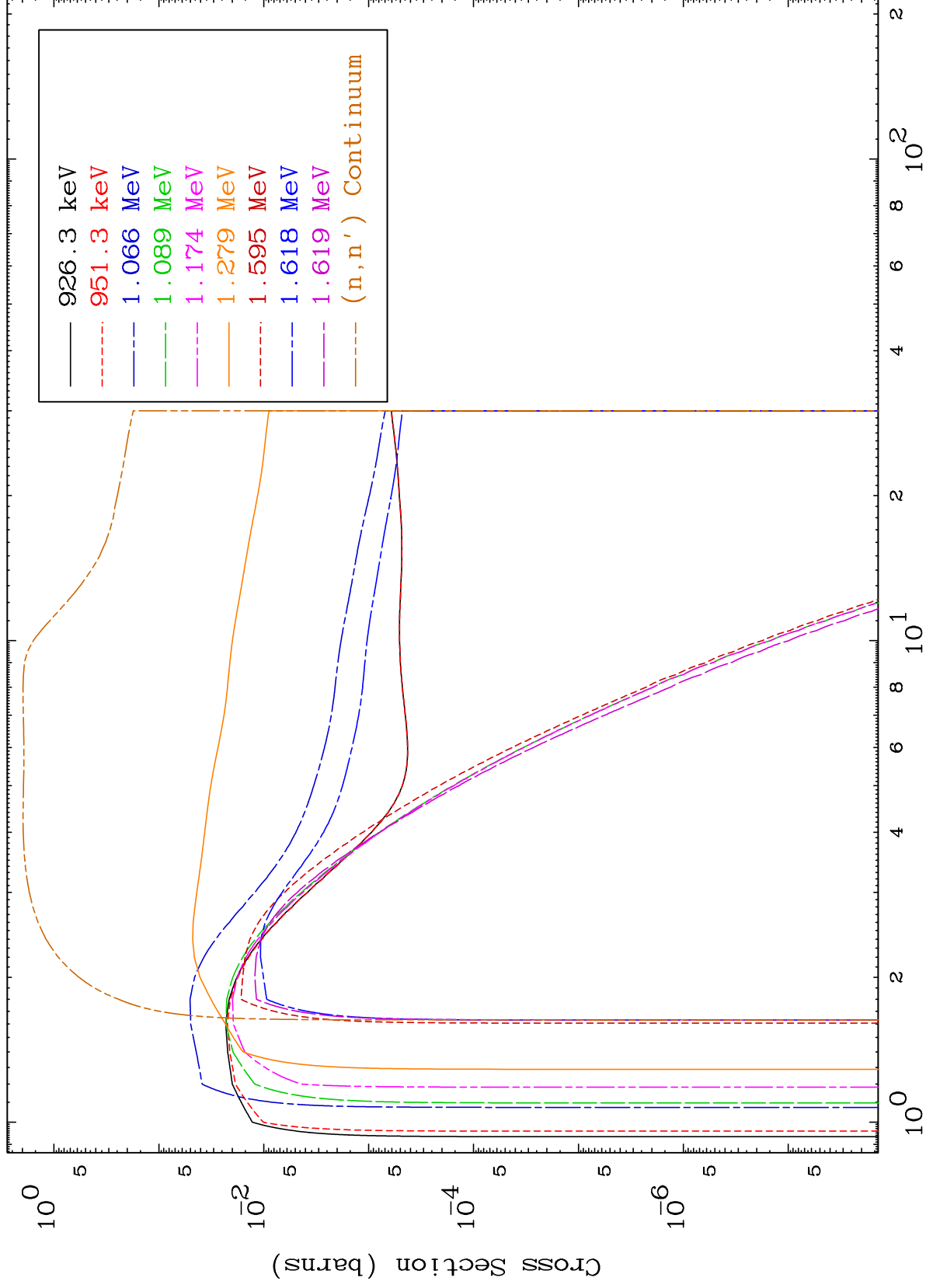
61-Pm-140

MAT 6128

(n,n') Level

61-Pm-140

293 Kelvin Cross Sections



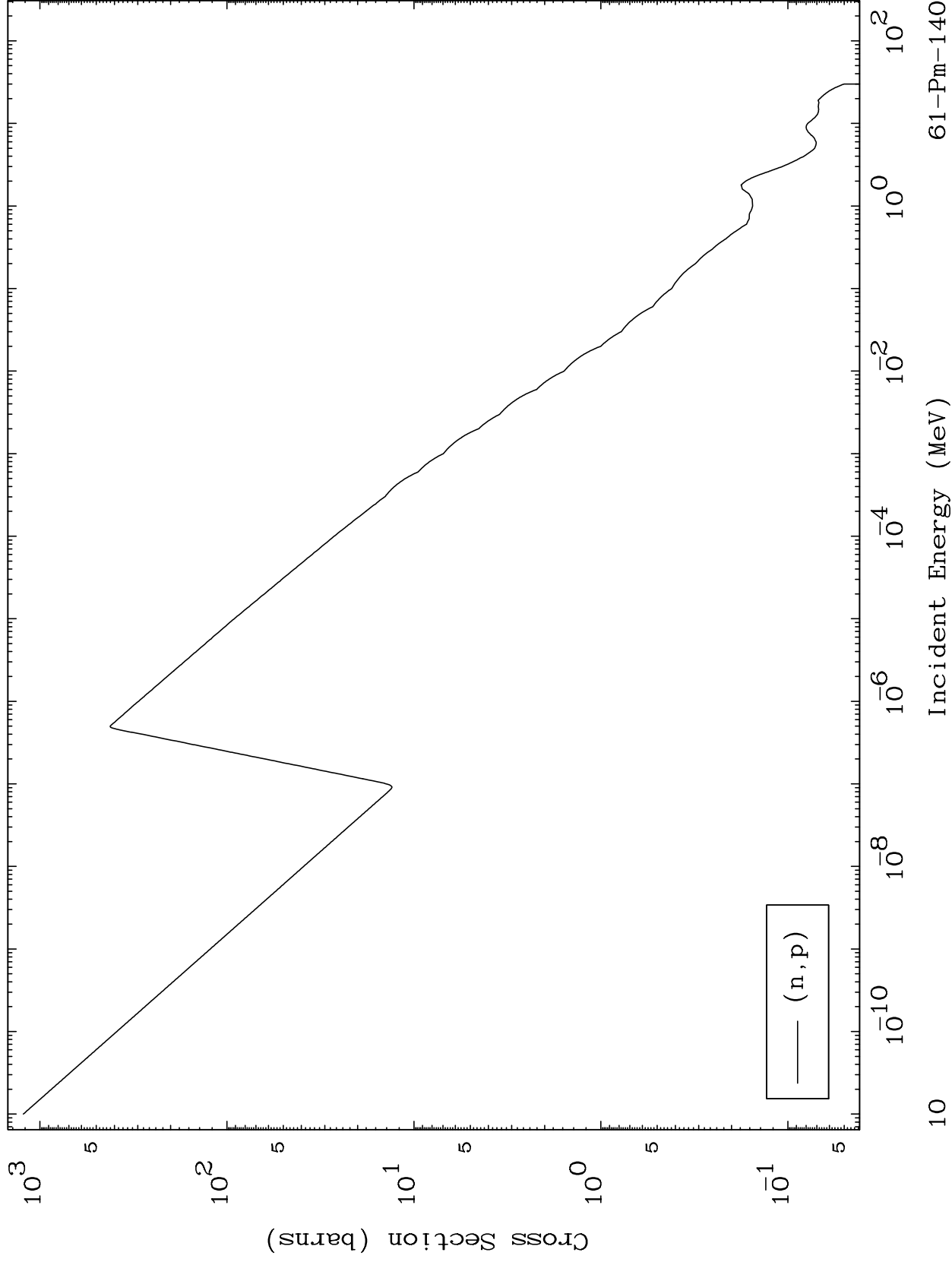
Incident Energy (MeV)

61-Pm-140

MAT 6128

(n,p) Levels
293 Kelvin Cross Sections

61-Pm-140



10

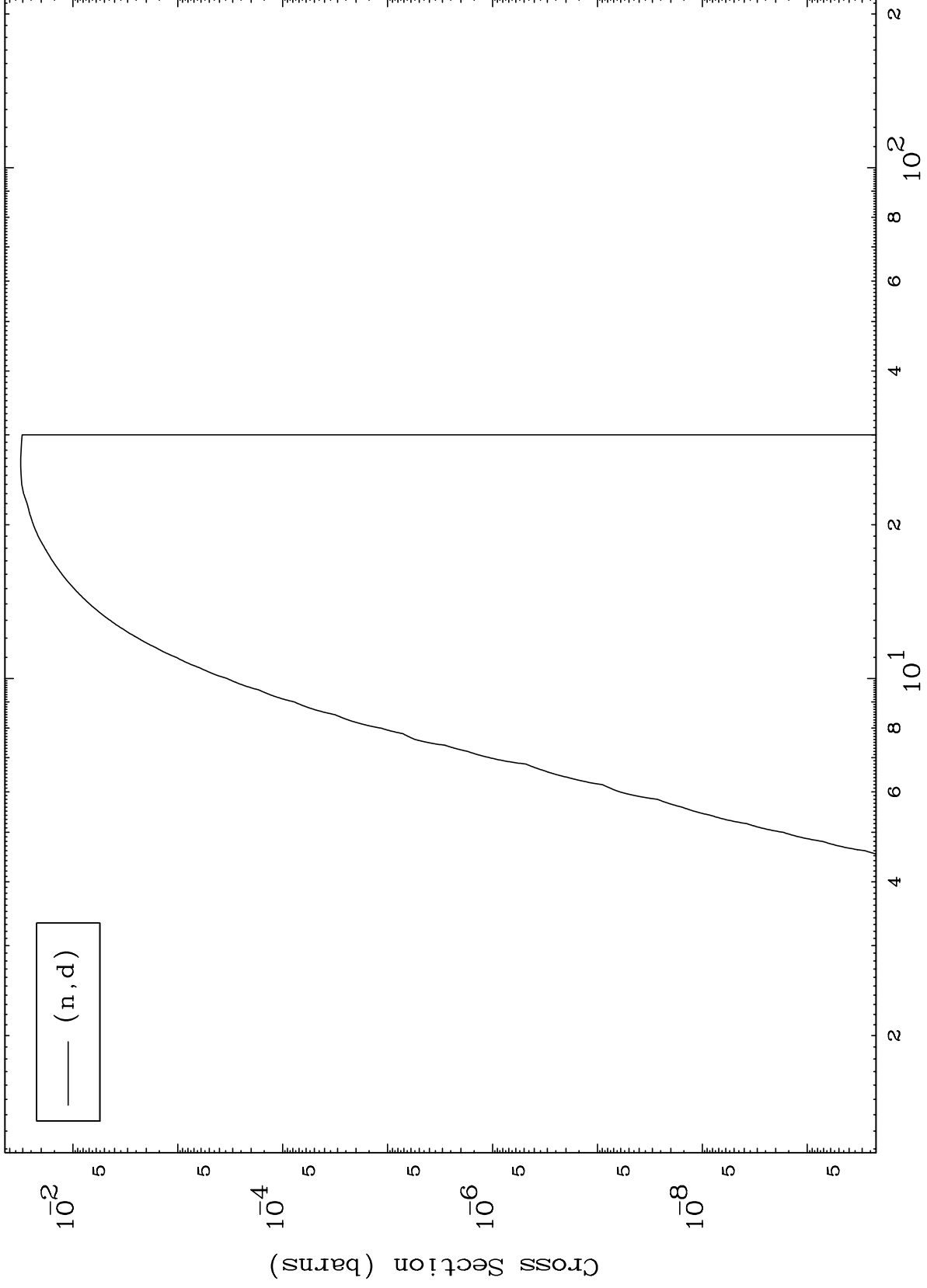
Incident Energy (MeV)

61-Pm-140

MAT 6128

(n,d) Levels
293 Kelvin Cross Sections

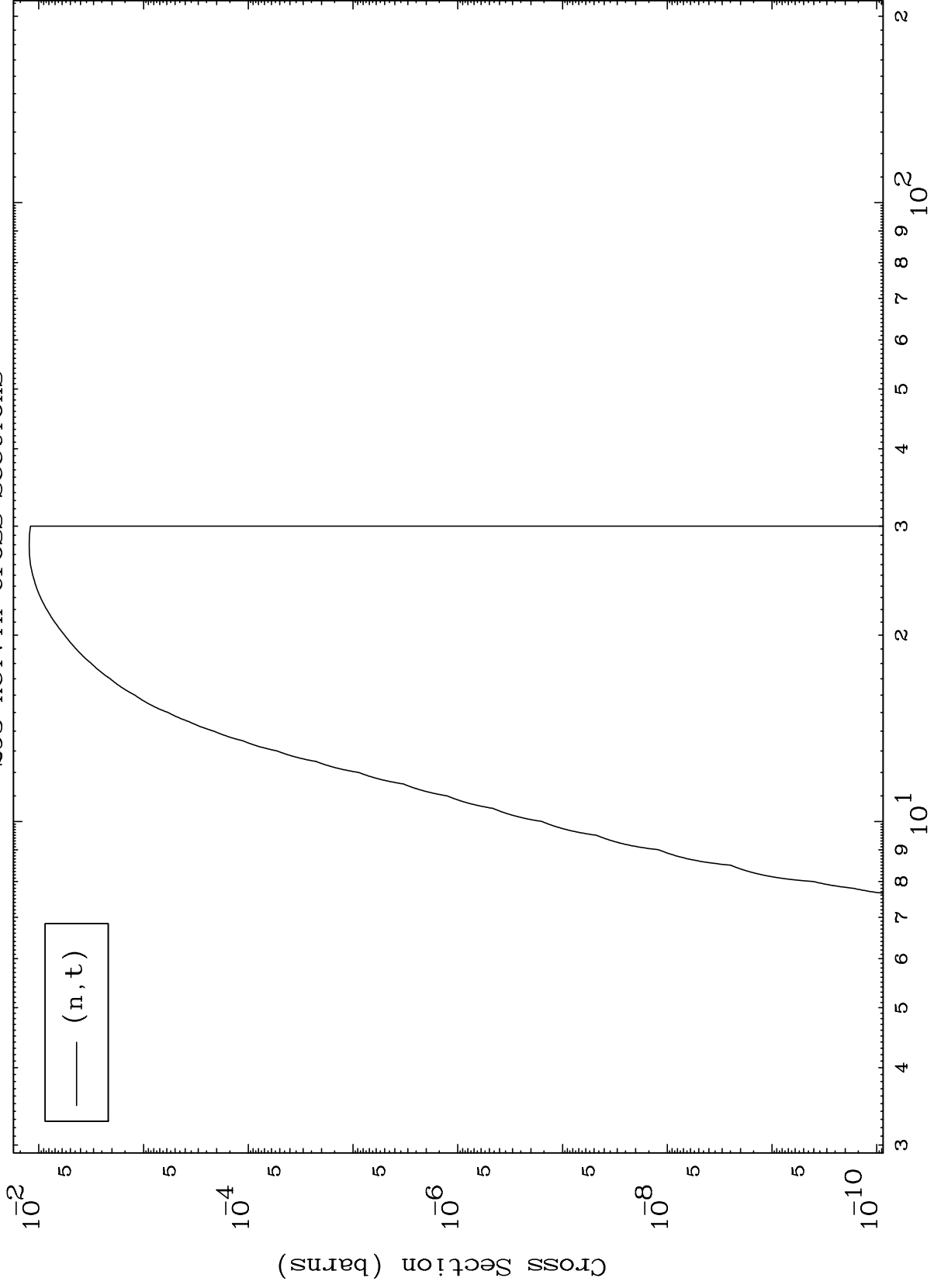
61-Pm-140



MAT 6128

(n,t) Levels
293 Kelvin Cross Sections

61-Pm-140



12

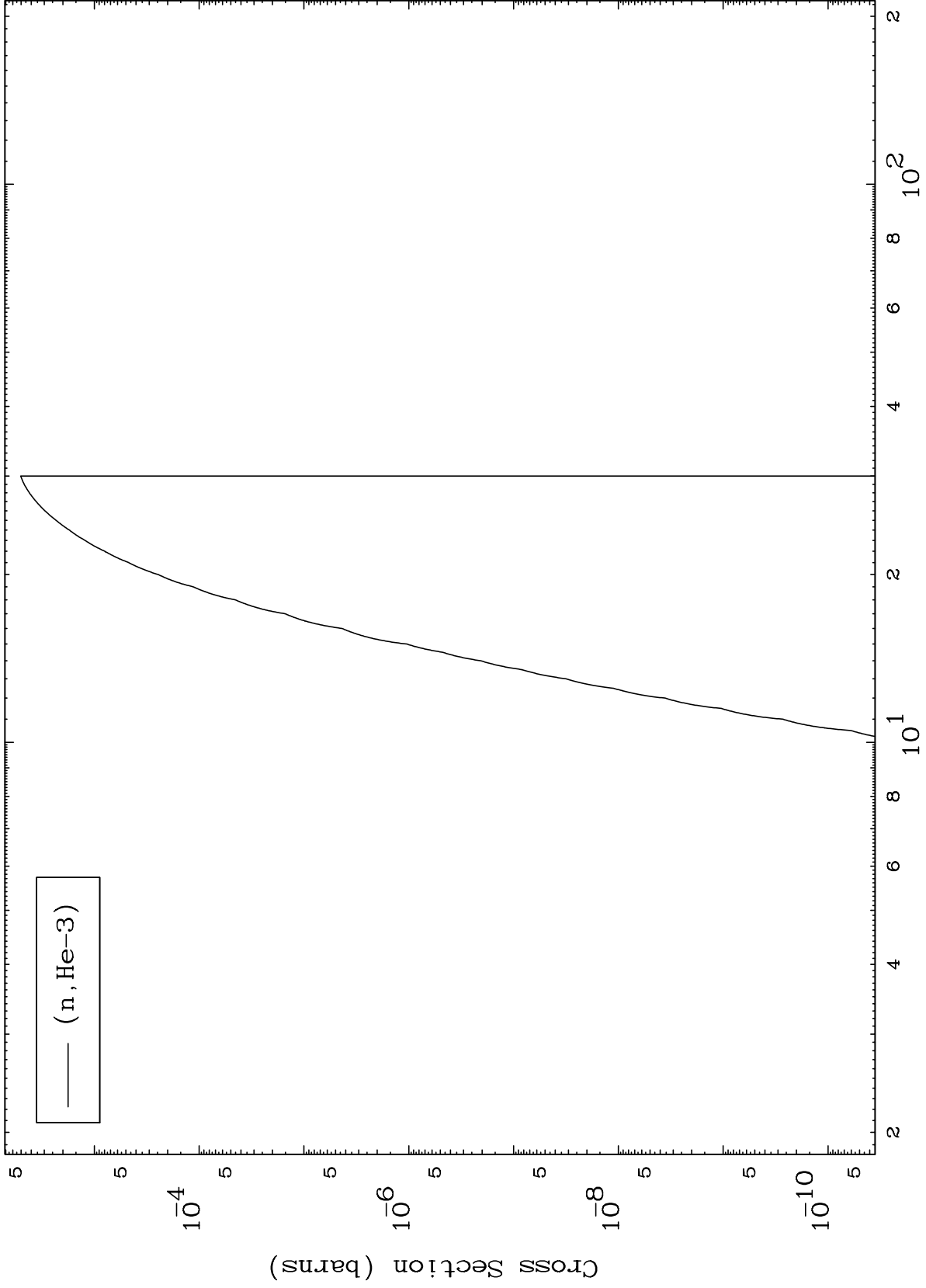
Incident Energy (MeV)

61-Pm-140

MAT 6128

(n,He3) Levels
293 Kelvin Cross Sections

61-Pm-140



13

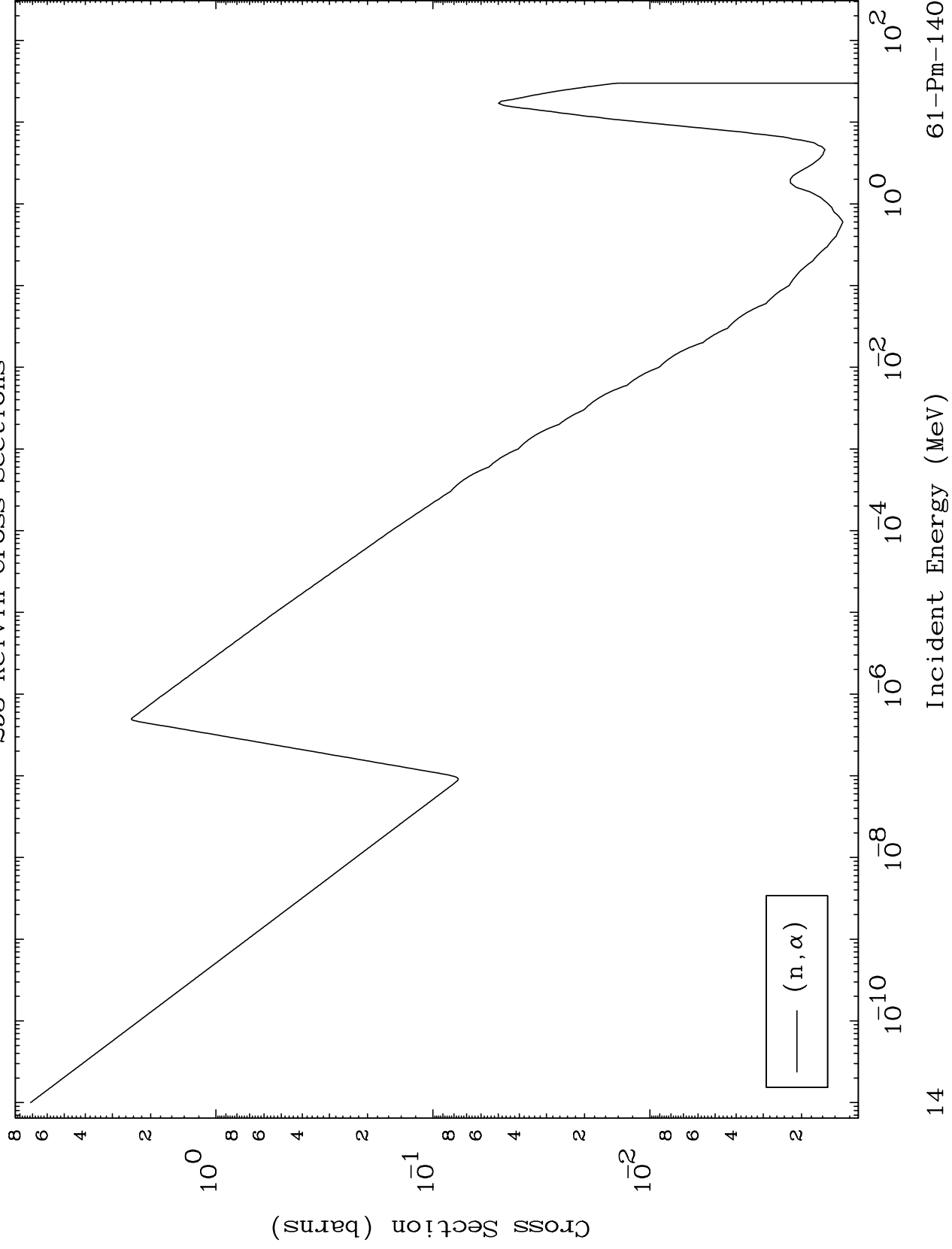
Incident Energy (MeV)

61-Pm-140

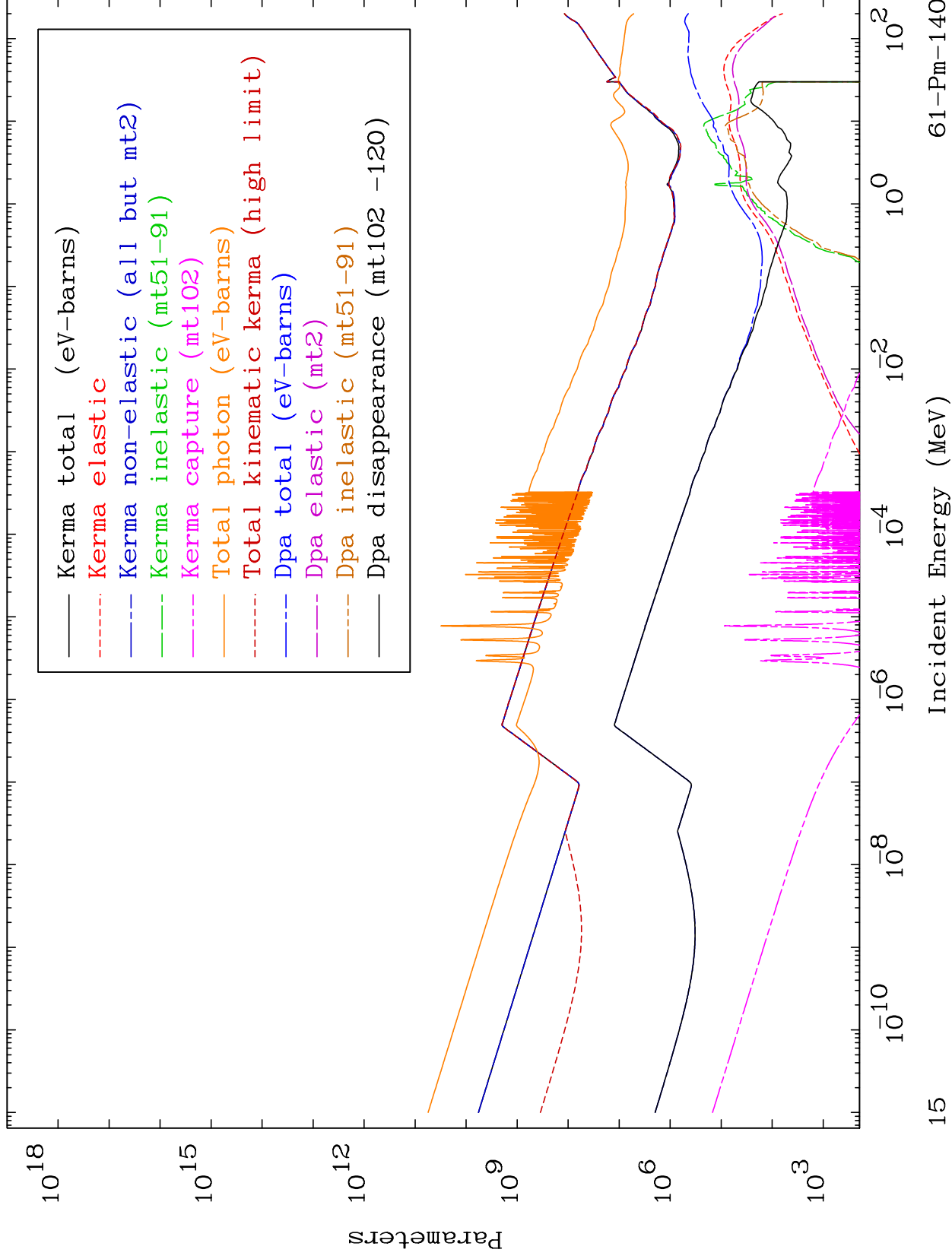
MAT 6128

(n, α) Levels
293 Kelvin Cross Sections

61-Pm-140



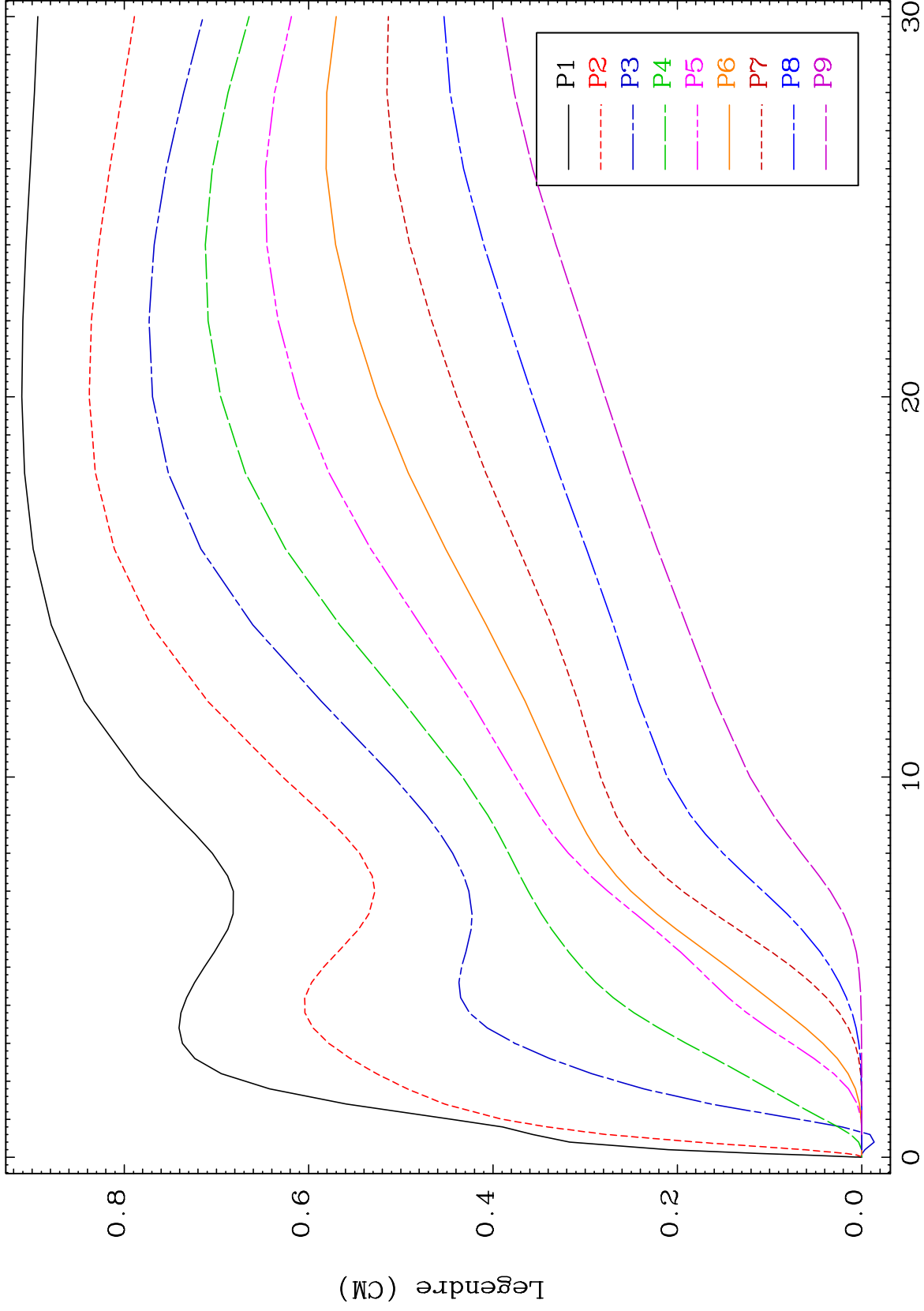
14



MAT 6128

Elastic Legendre Coefficients

61-Pm-140



16

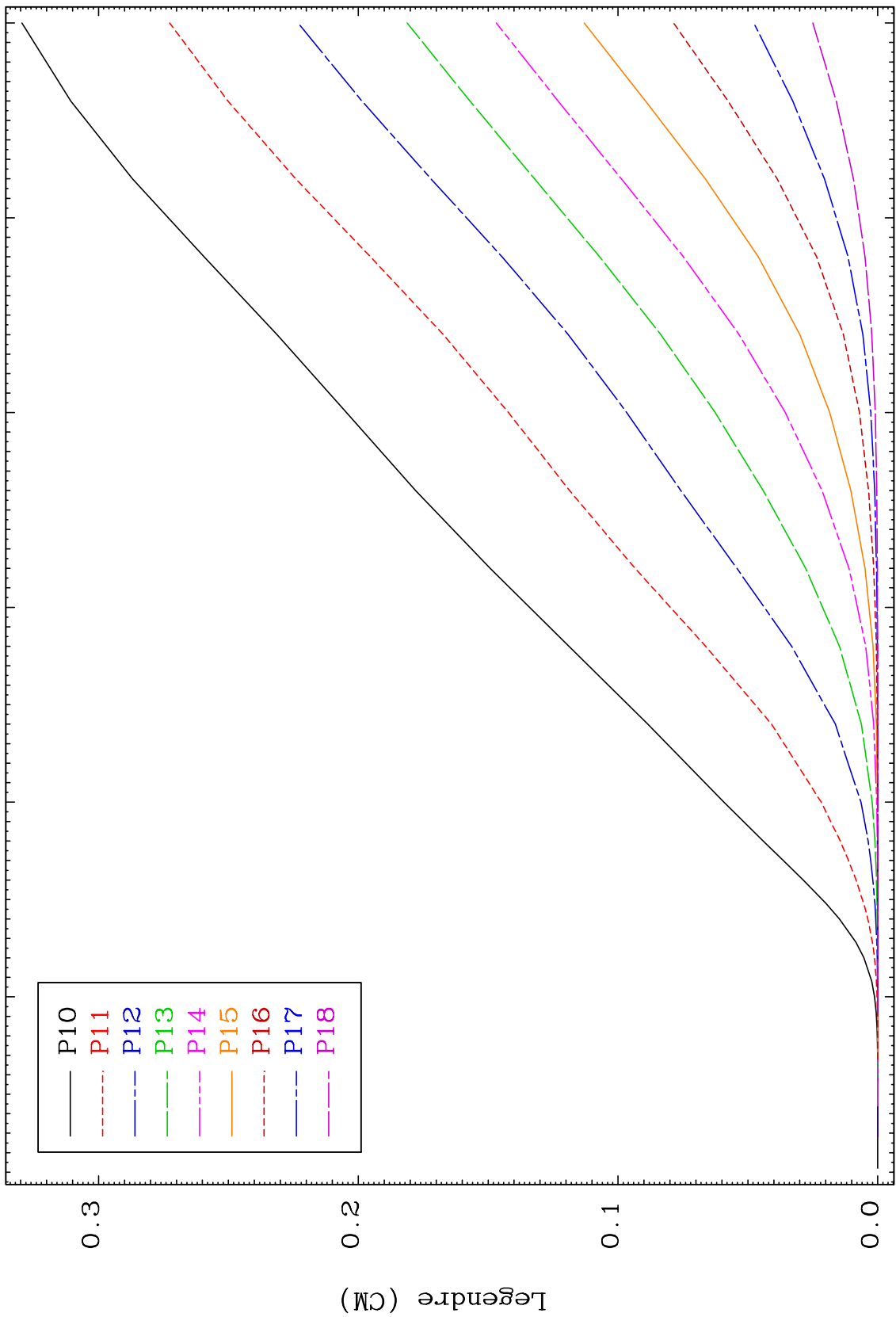
Incident Energy (MeV)

61-Pm-140

MAT 6128

Elastic Legendre Coefficients

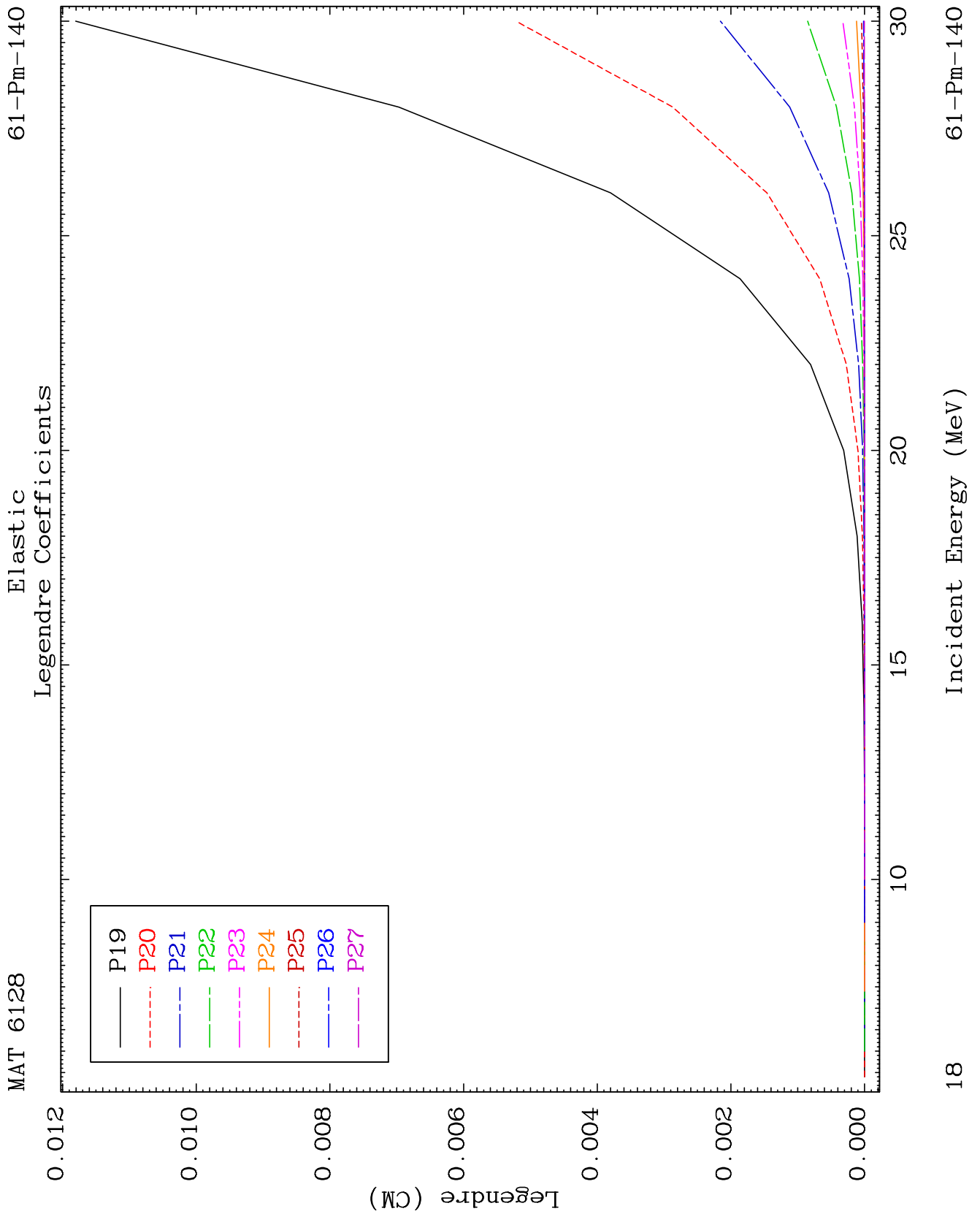
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17

Incident Energy (MeV)

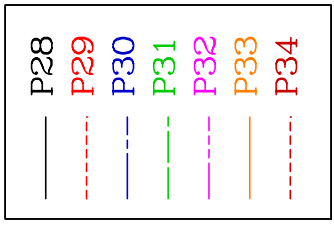
61-Pm-140



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Elastic Legendre Coefficients

61-Pm-140



$\times 10^{-6}$

1.2

0.8

0.4

0.0

Legendre (CM)

15

20

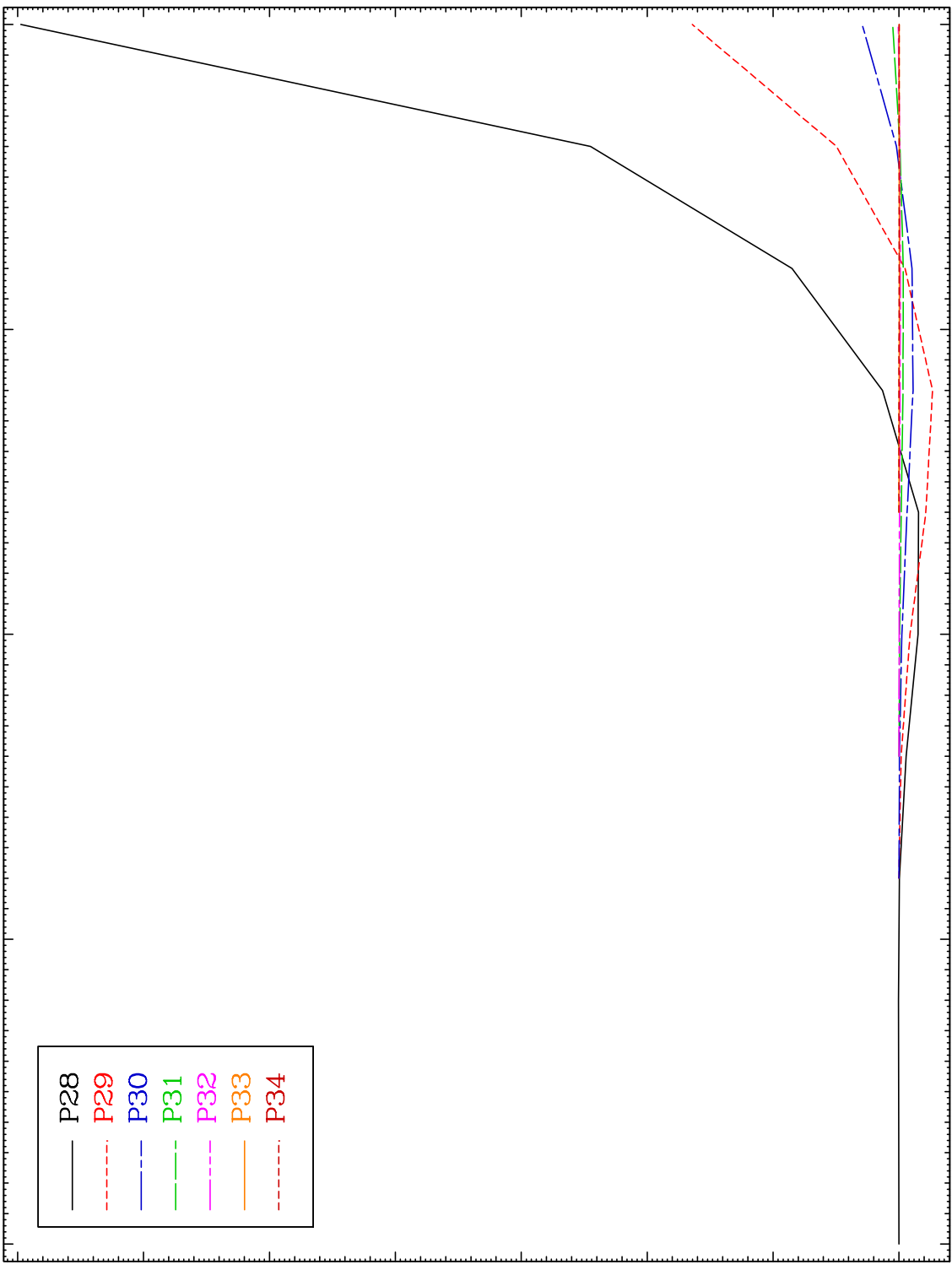
25

30

19

Incident Energy (MeV)

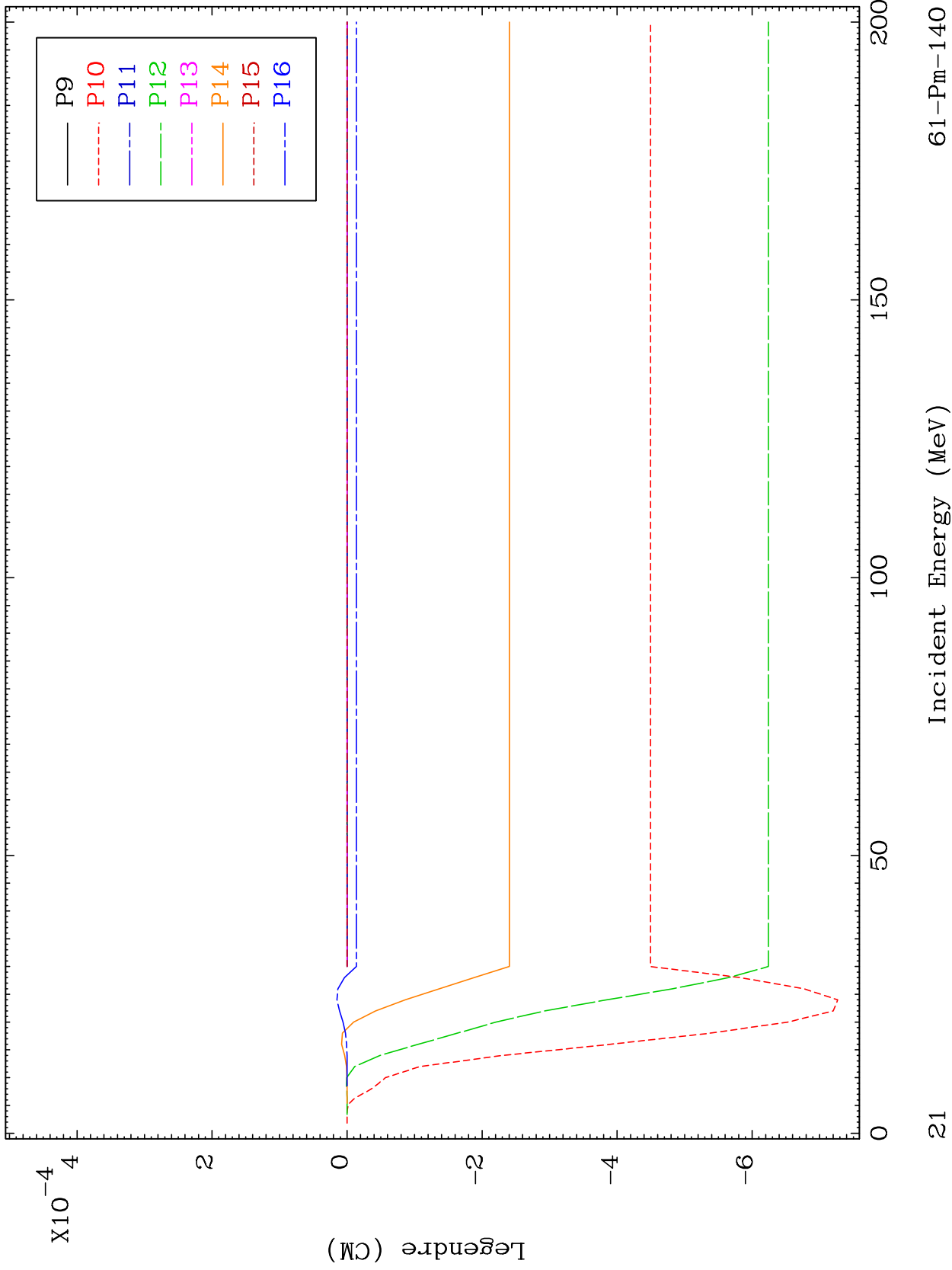
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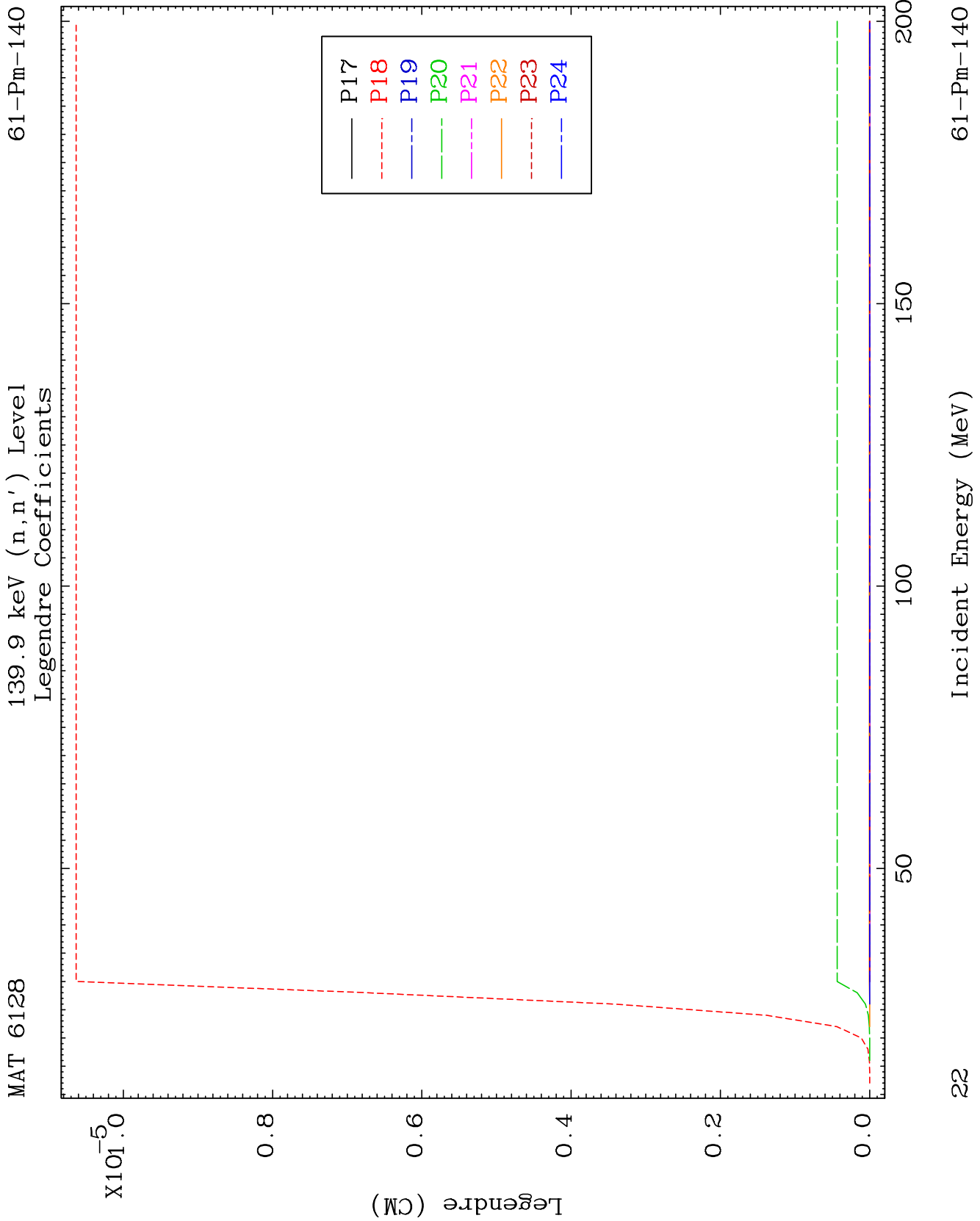
MAT 6128

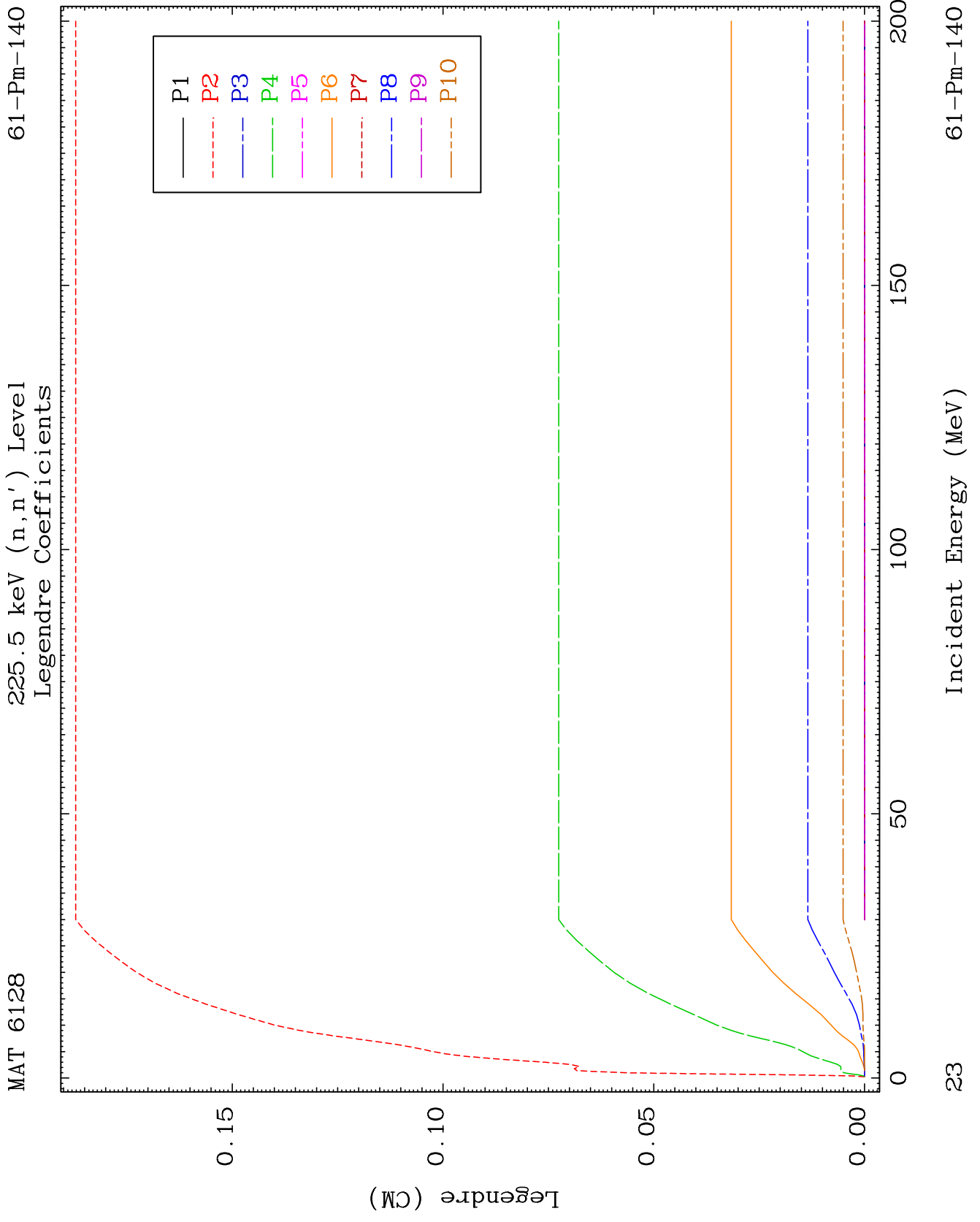
139.9 keV (n,n') Level
Legendre Coefficients

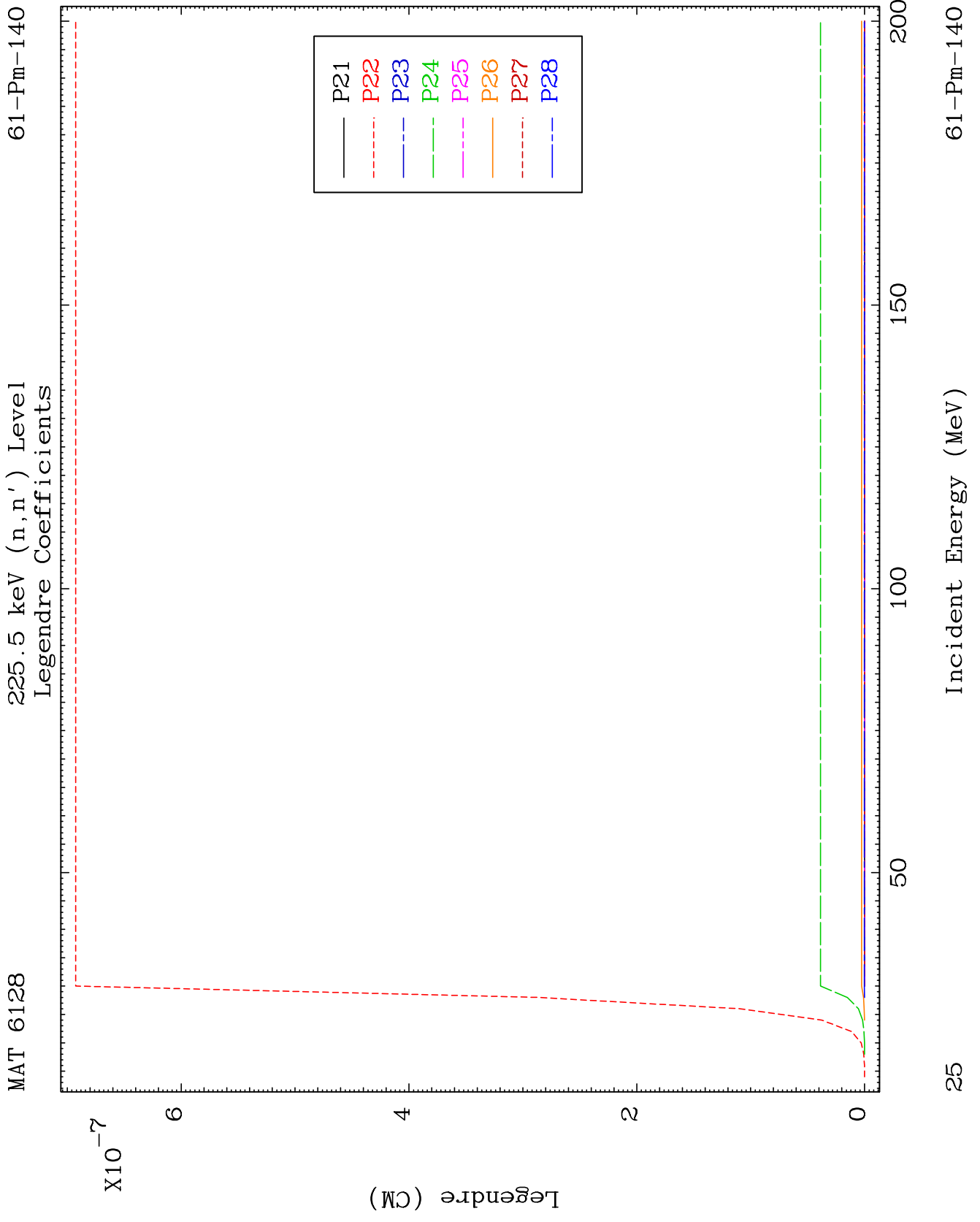
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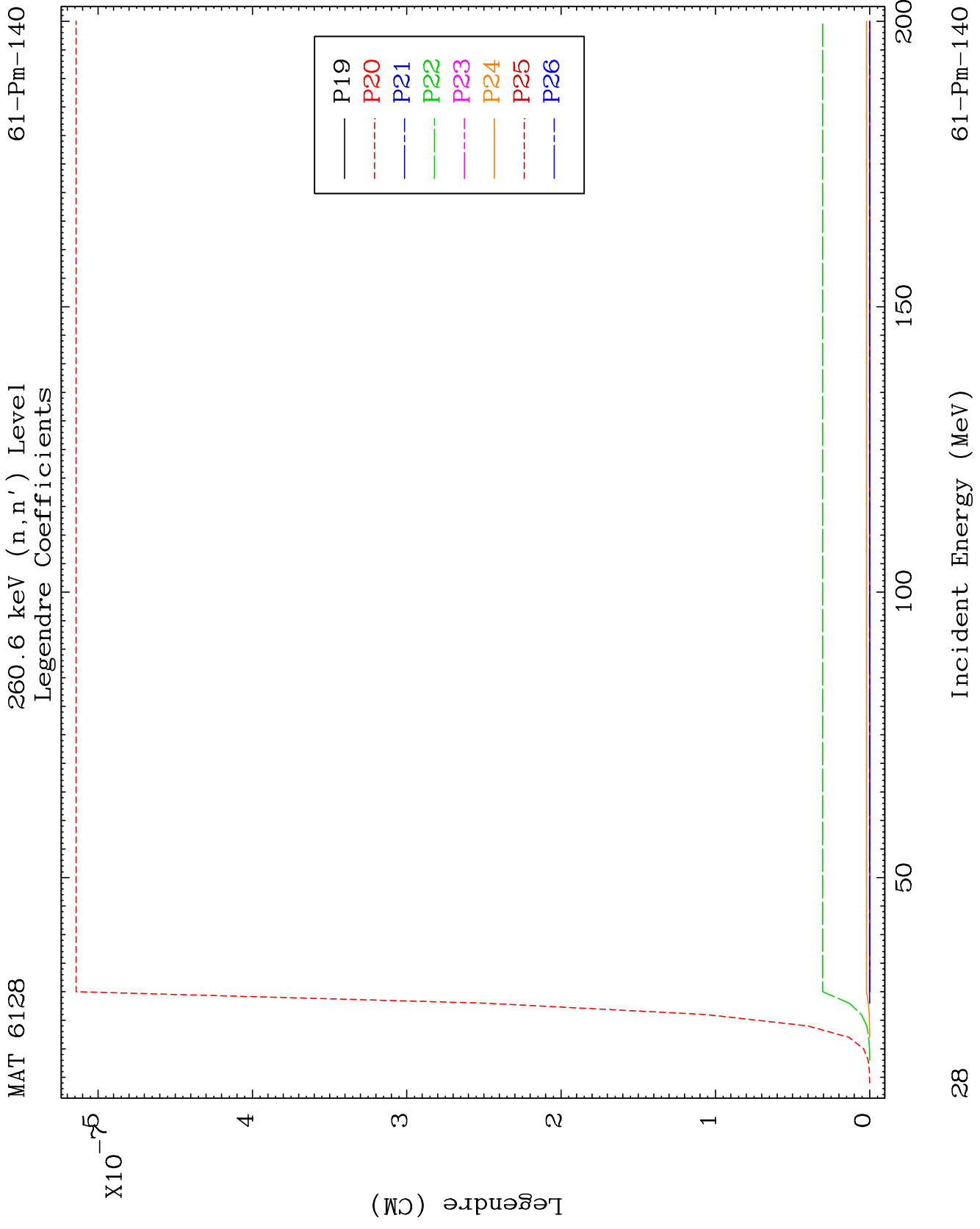


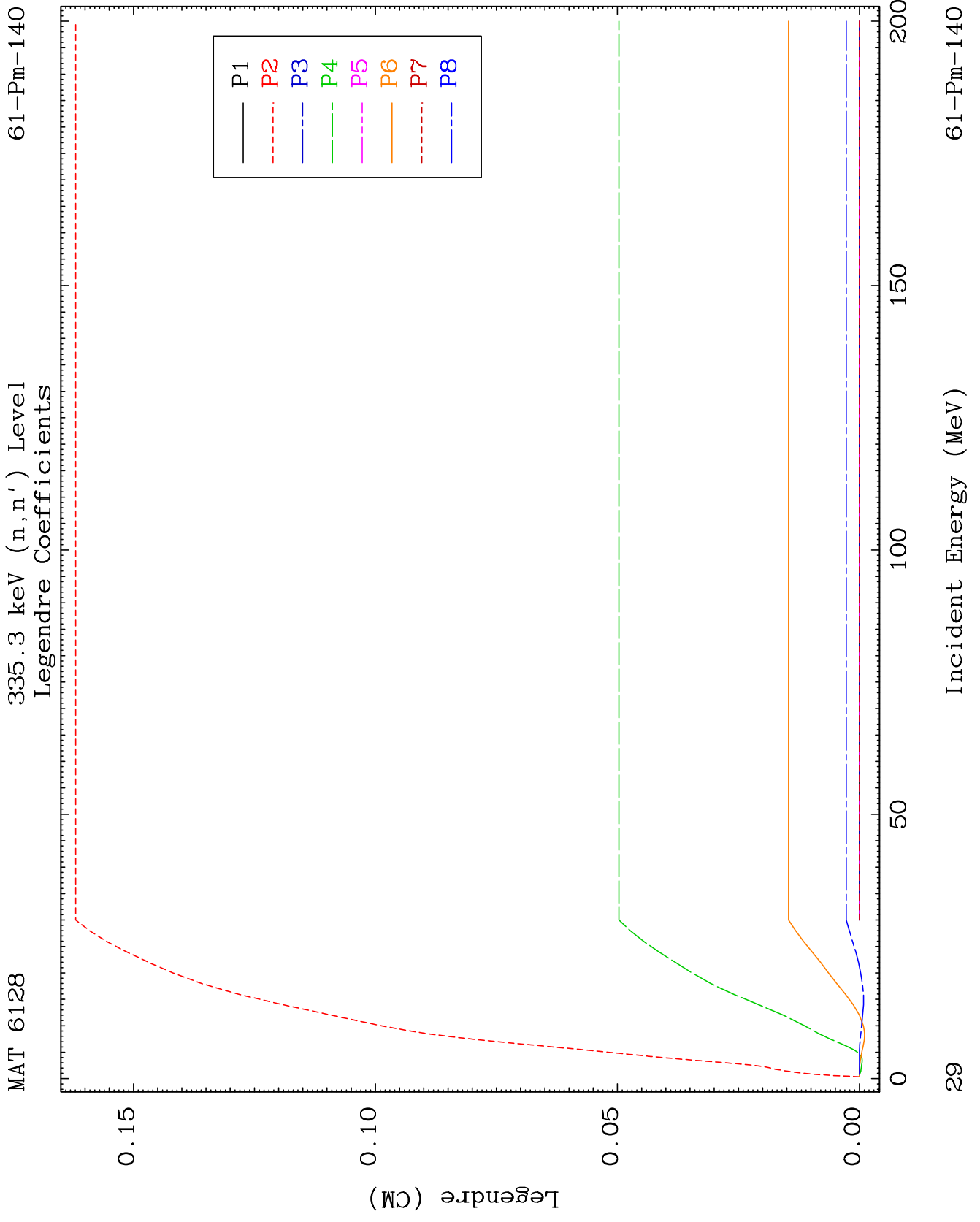
21

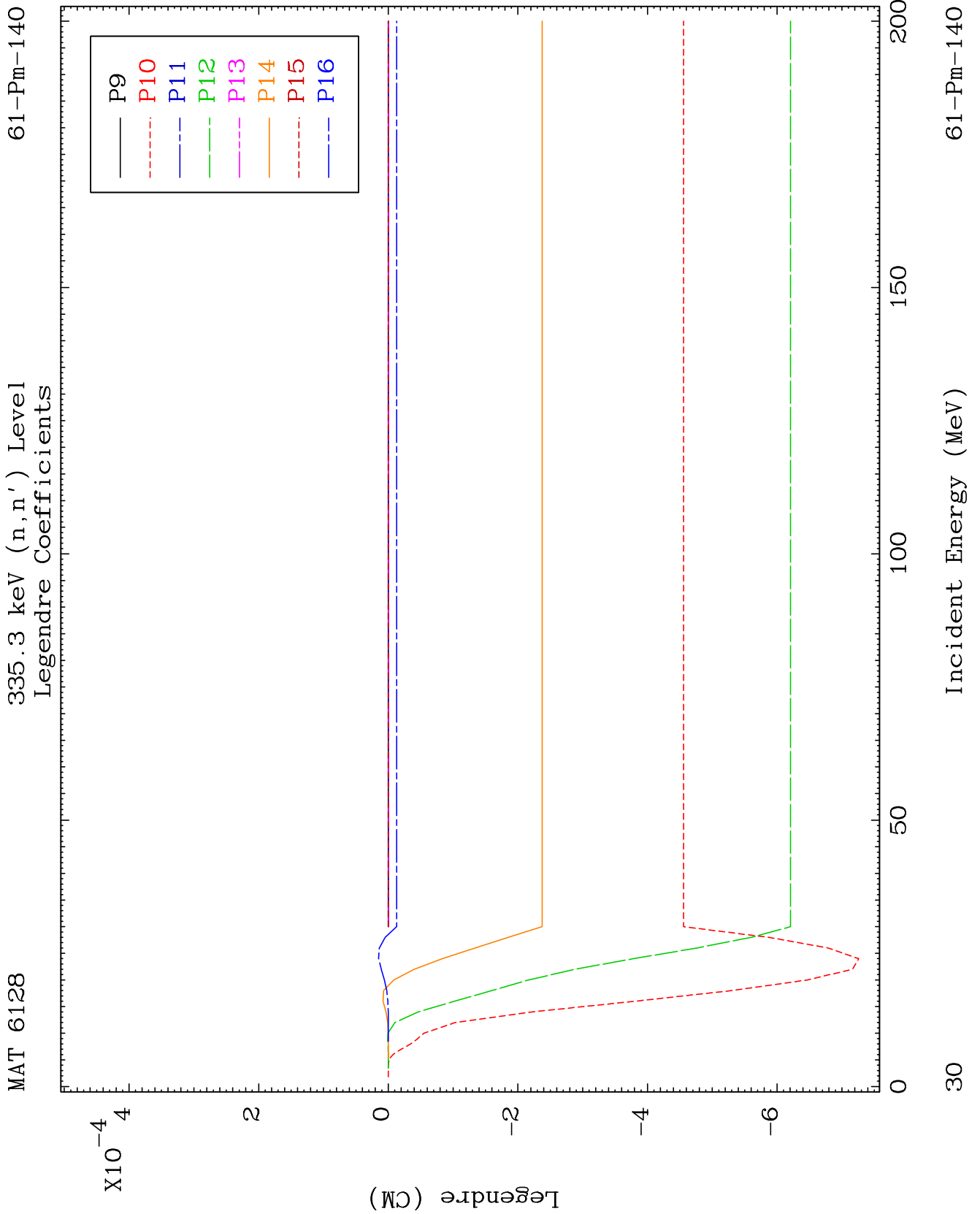


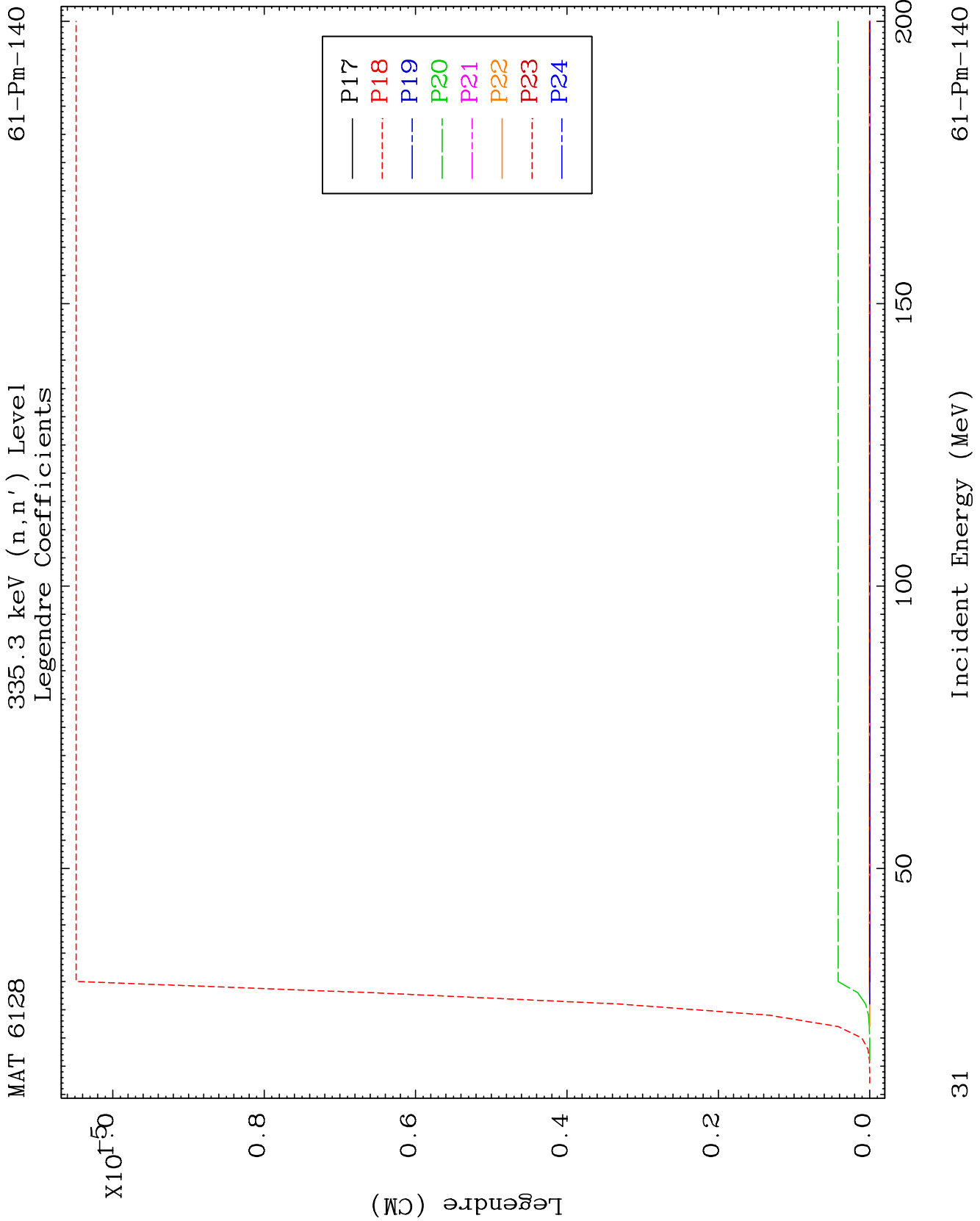








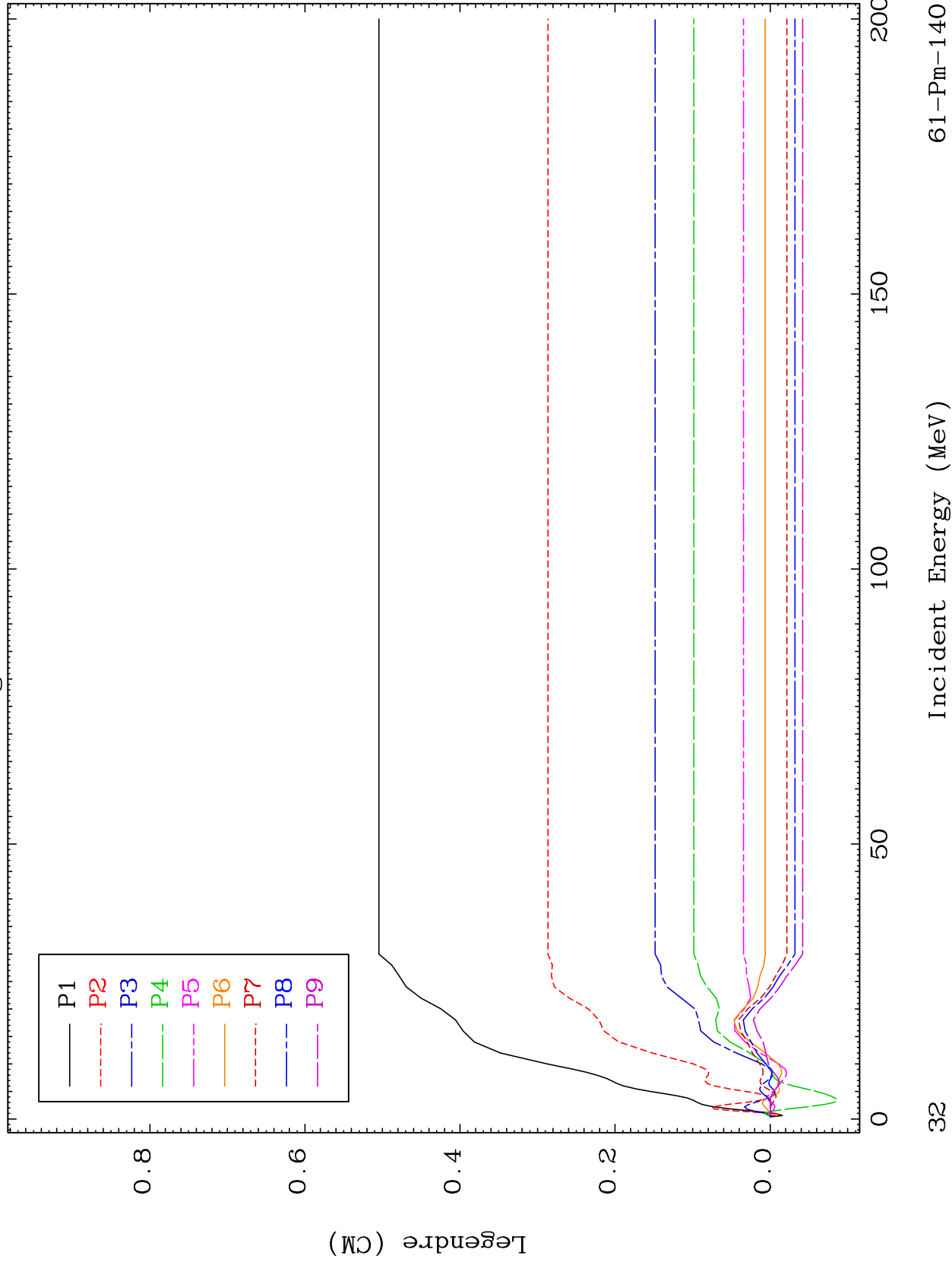




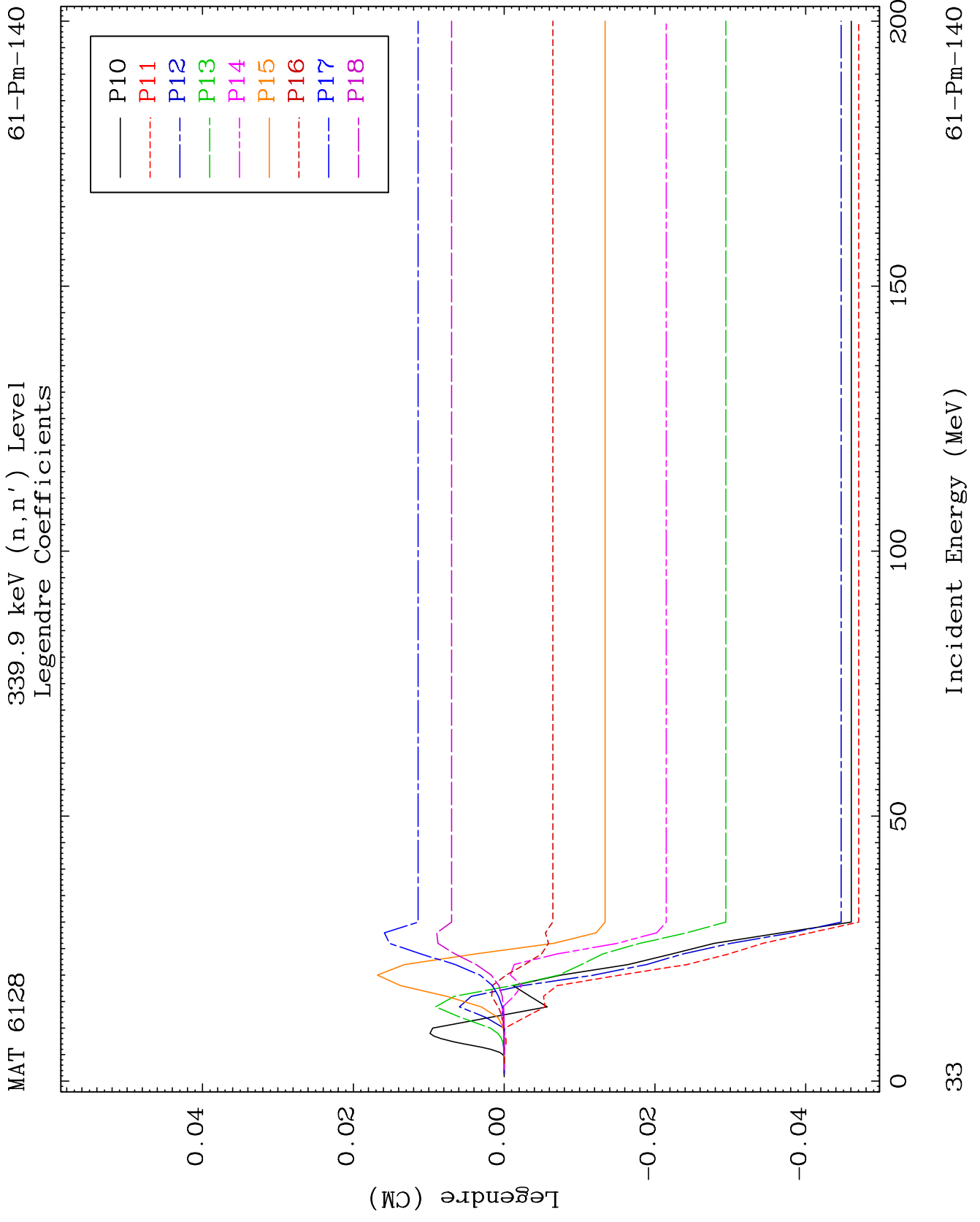
MAT 6128

339.9 keV (n,n') Level
Legendre Coefficients

61-Pm-140



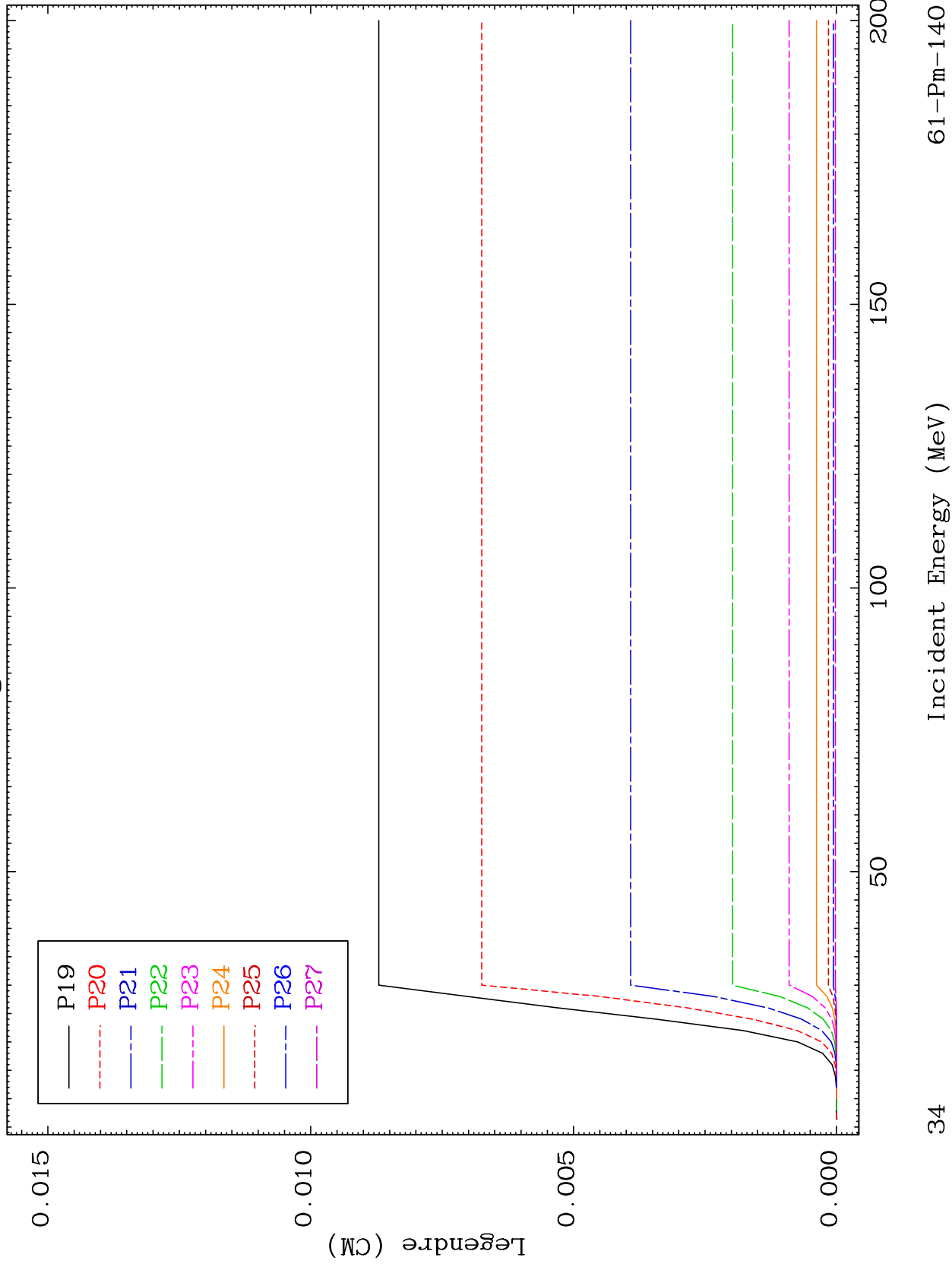
32



MAT 6128

339.9 keV (n,n') Level
Legendre Coefficients

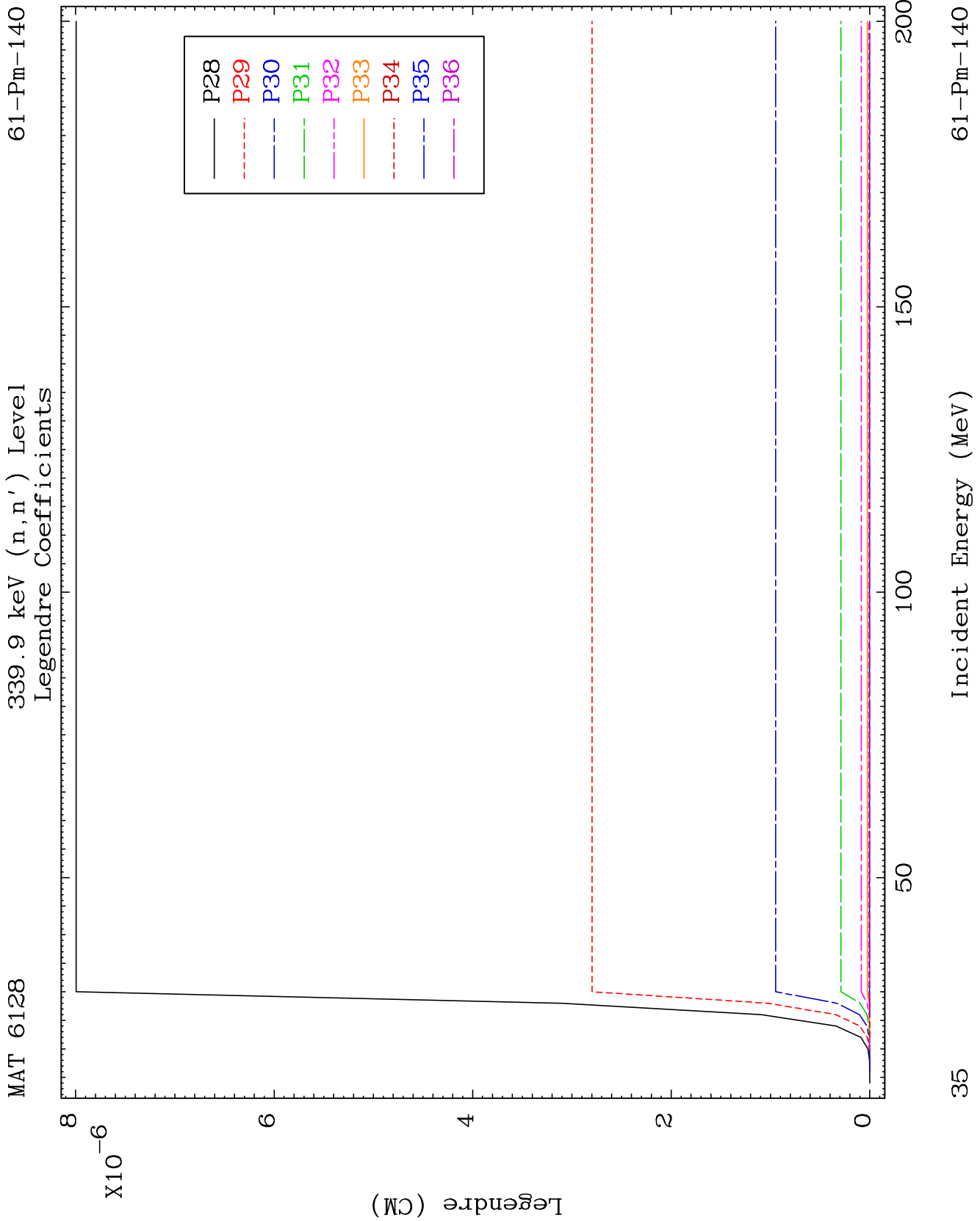
61-Pm-140



34

Incident Energy (MeV)

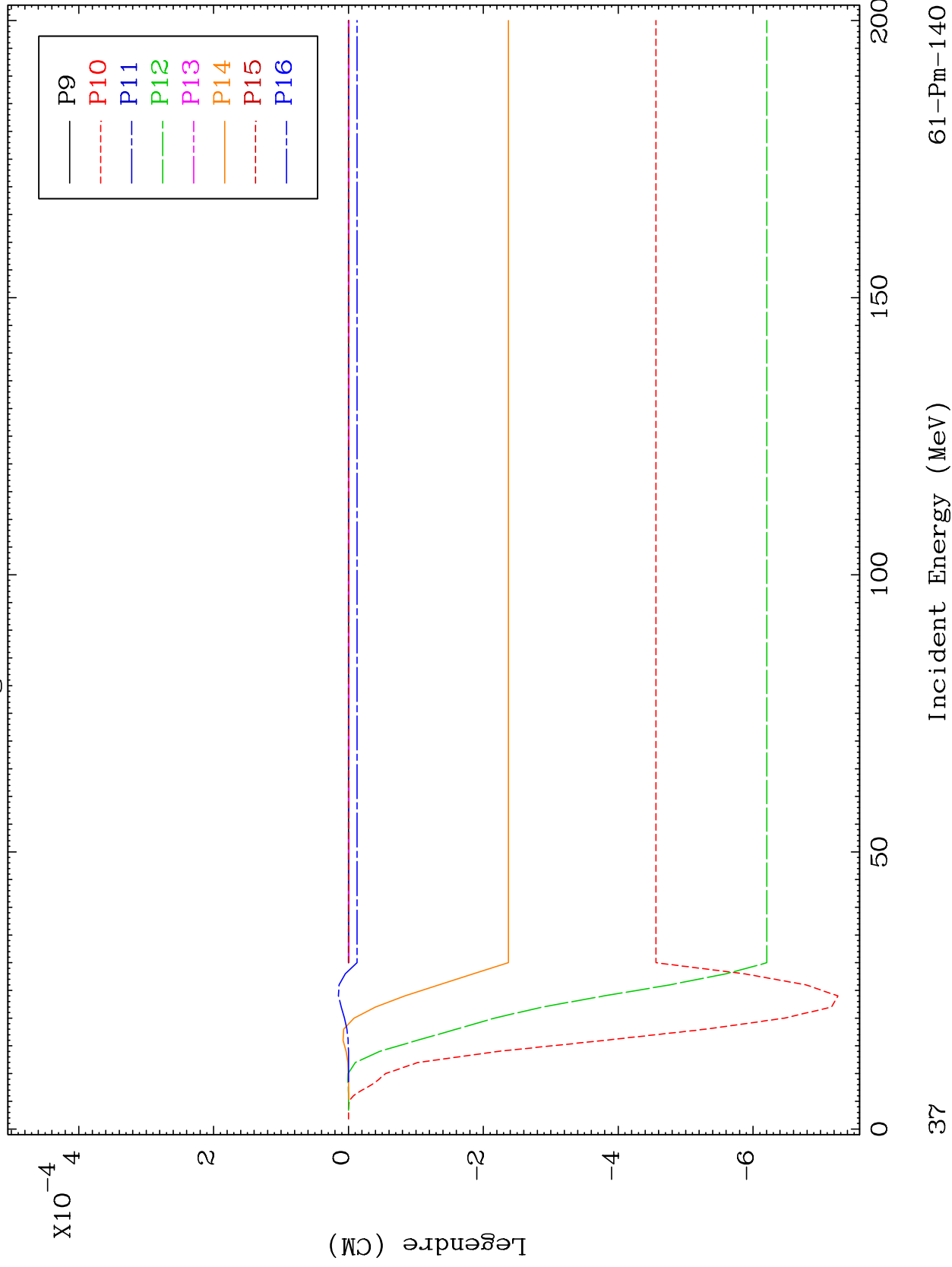
61-Pm-140



MAT 6128

344.9 keV (n,n') Level
Legendre Coefficients

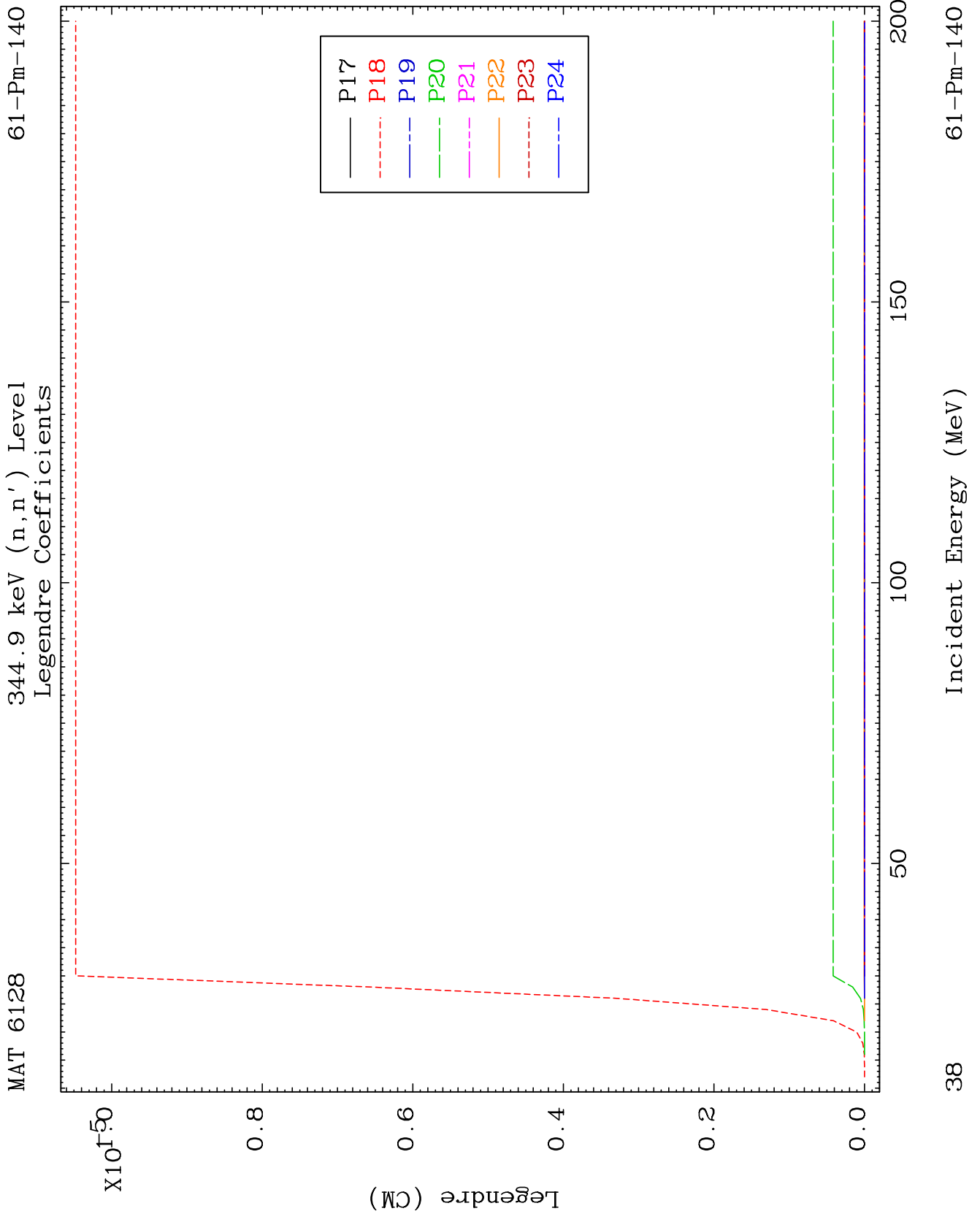
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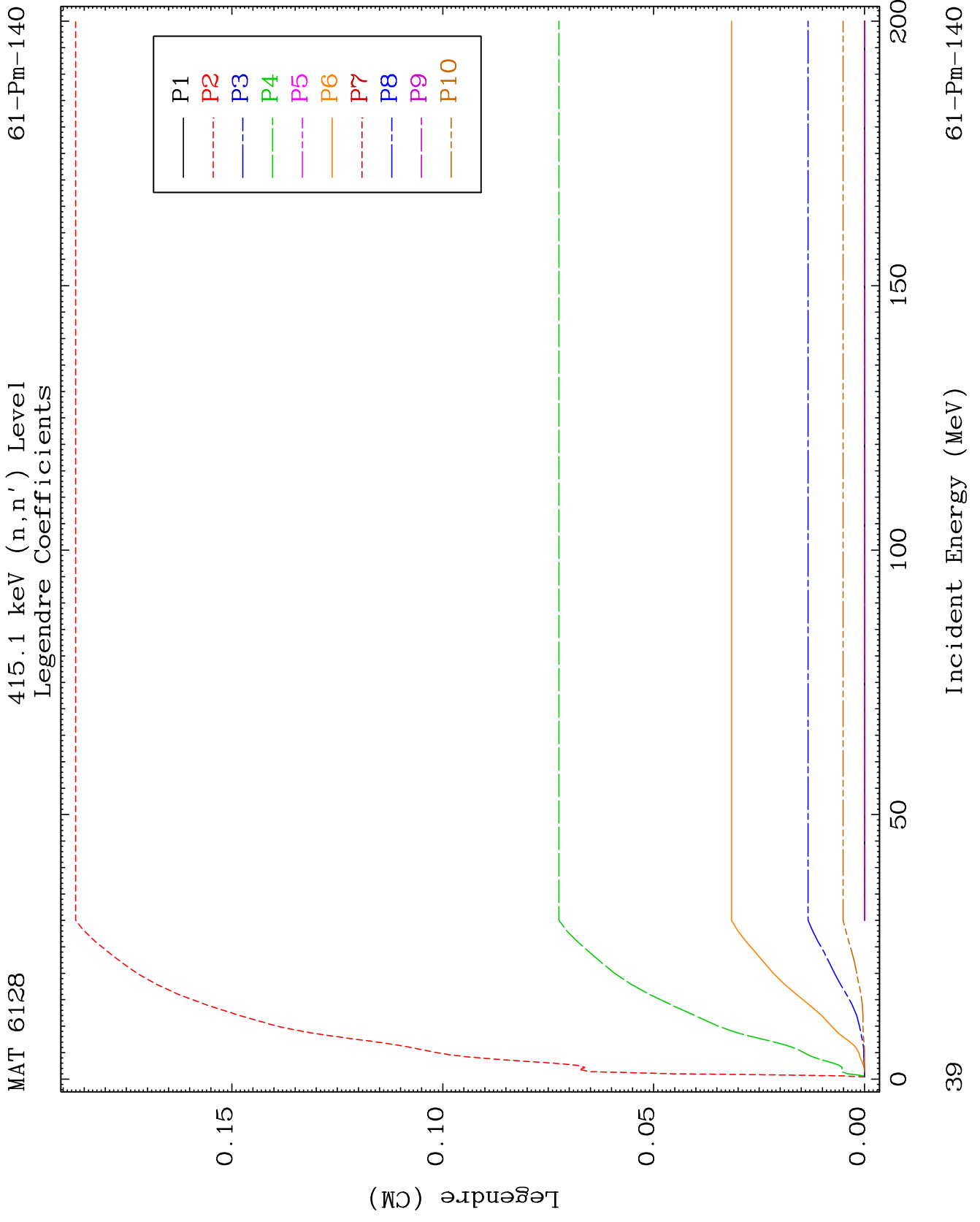


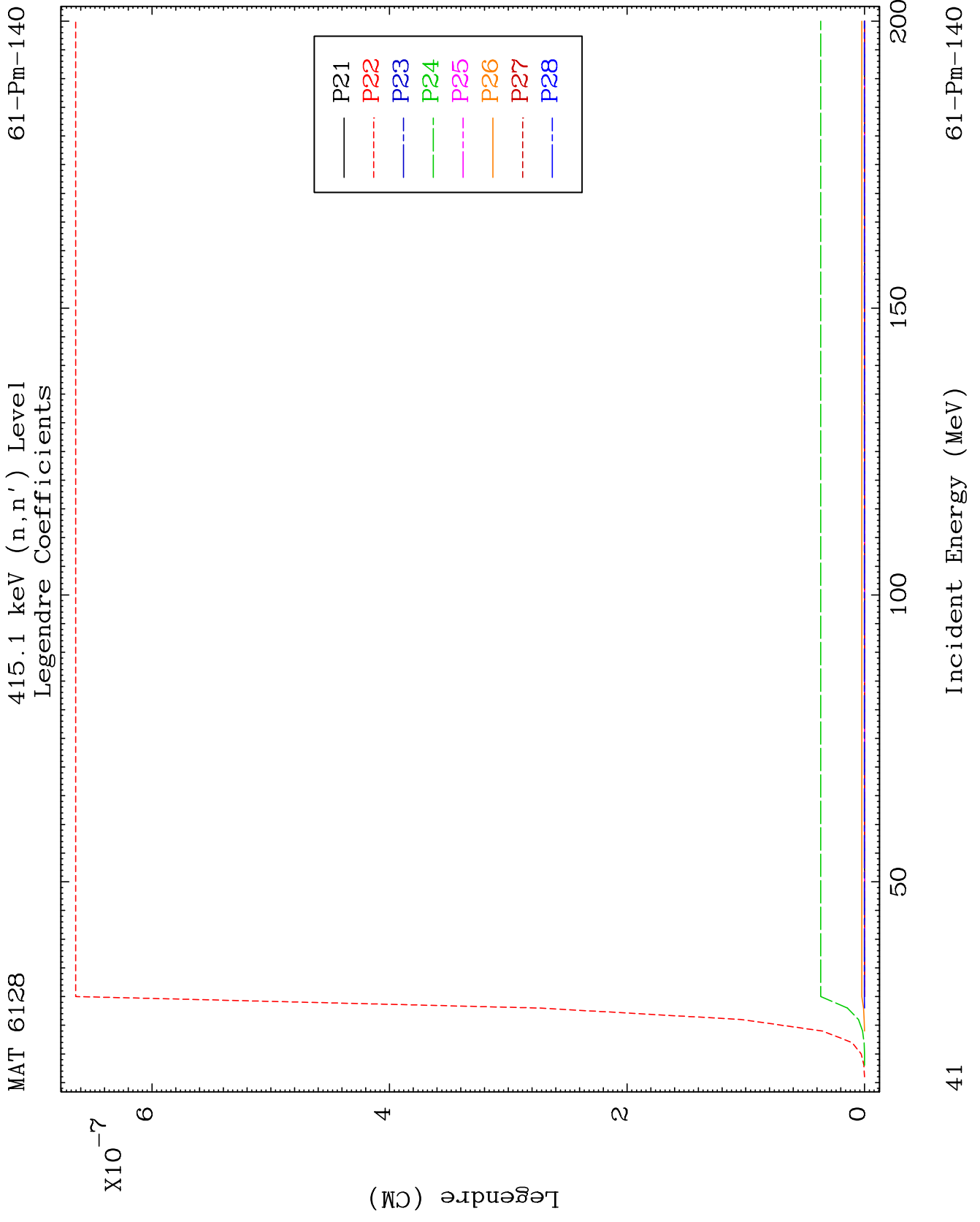
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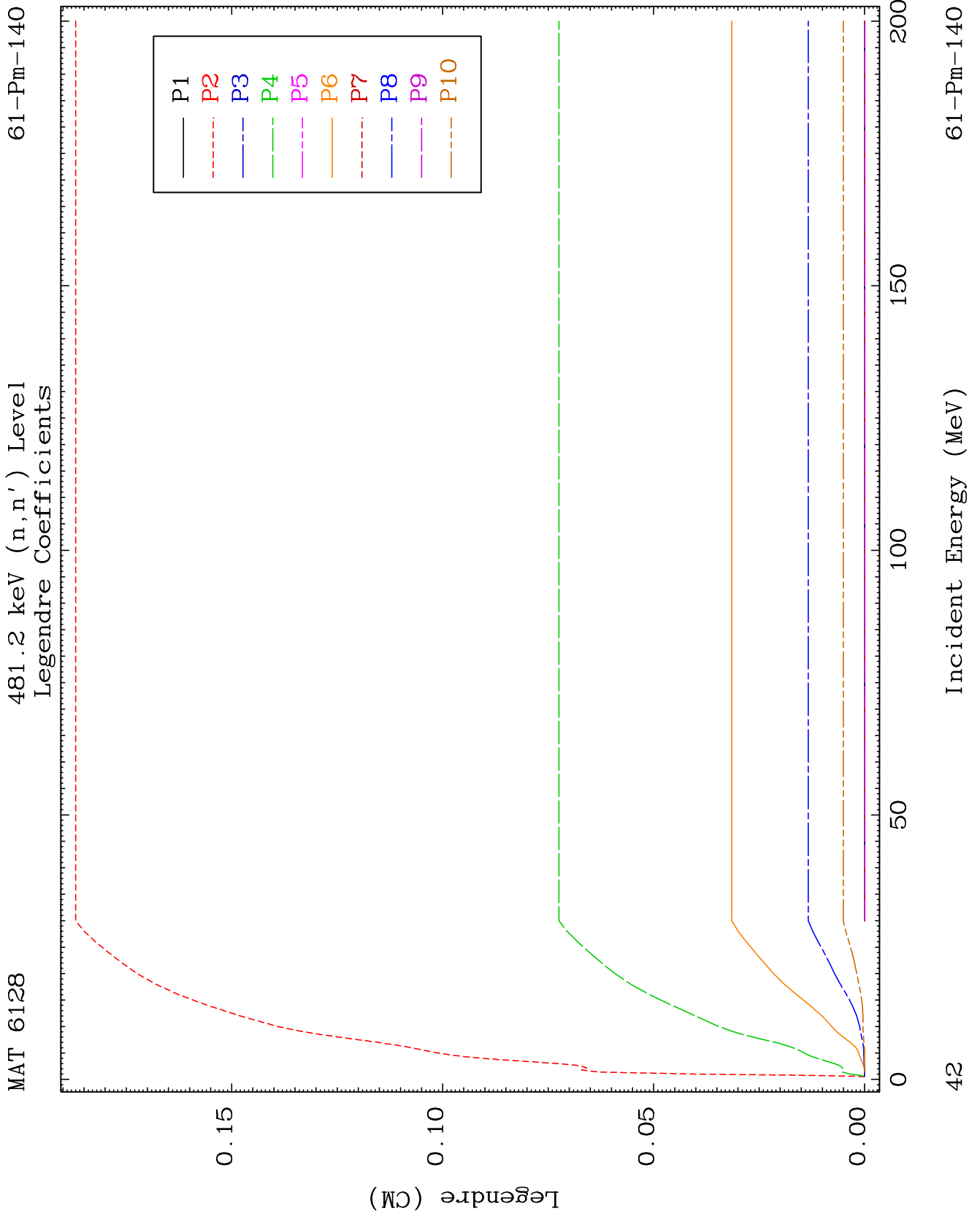
Incident Energy (MeV)

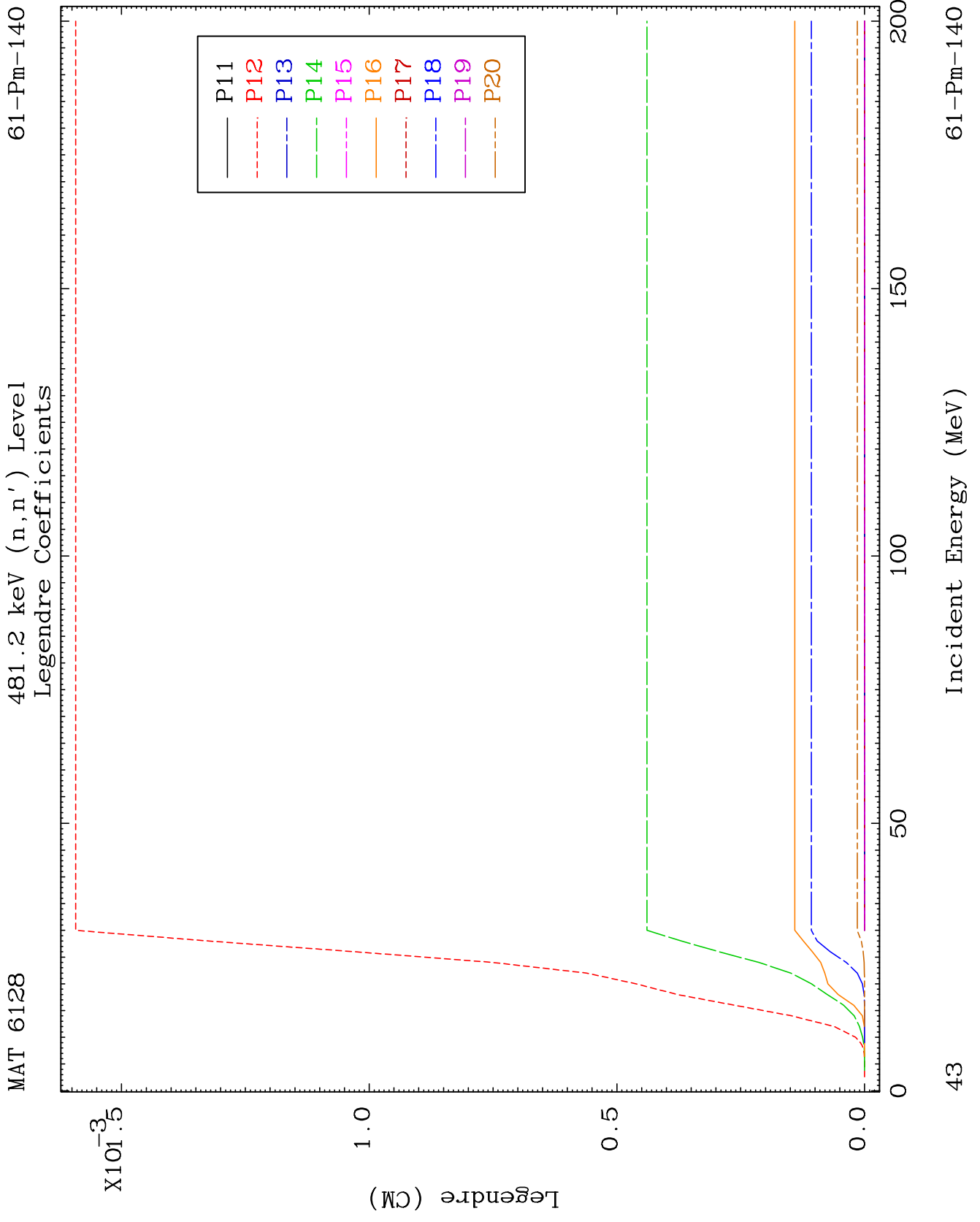
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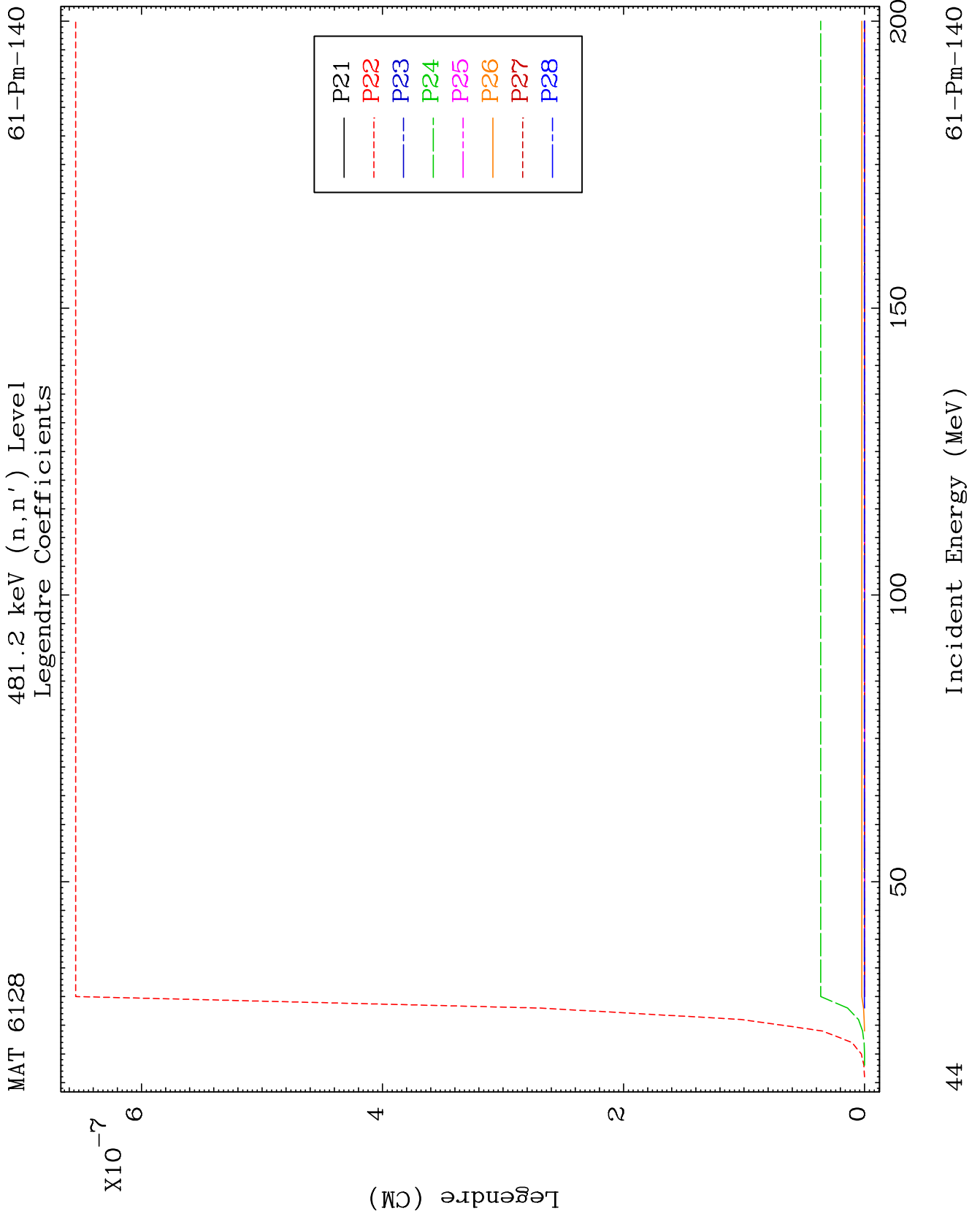


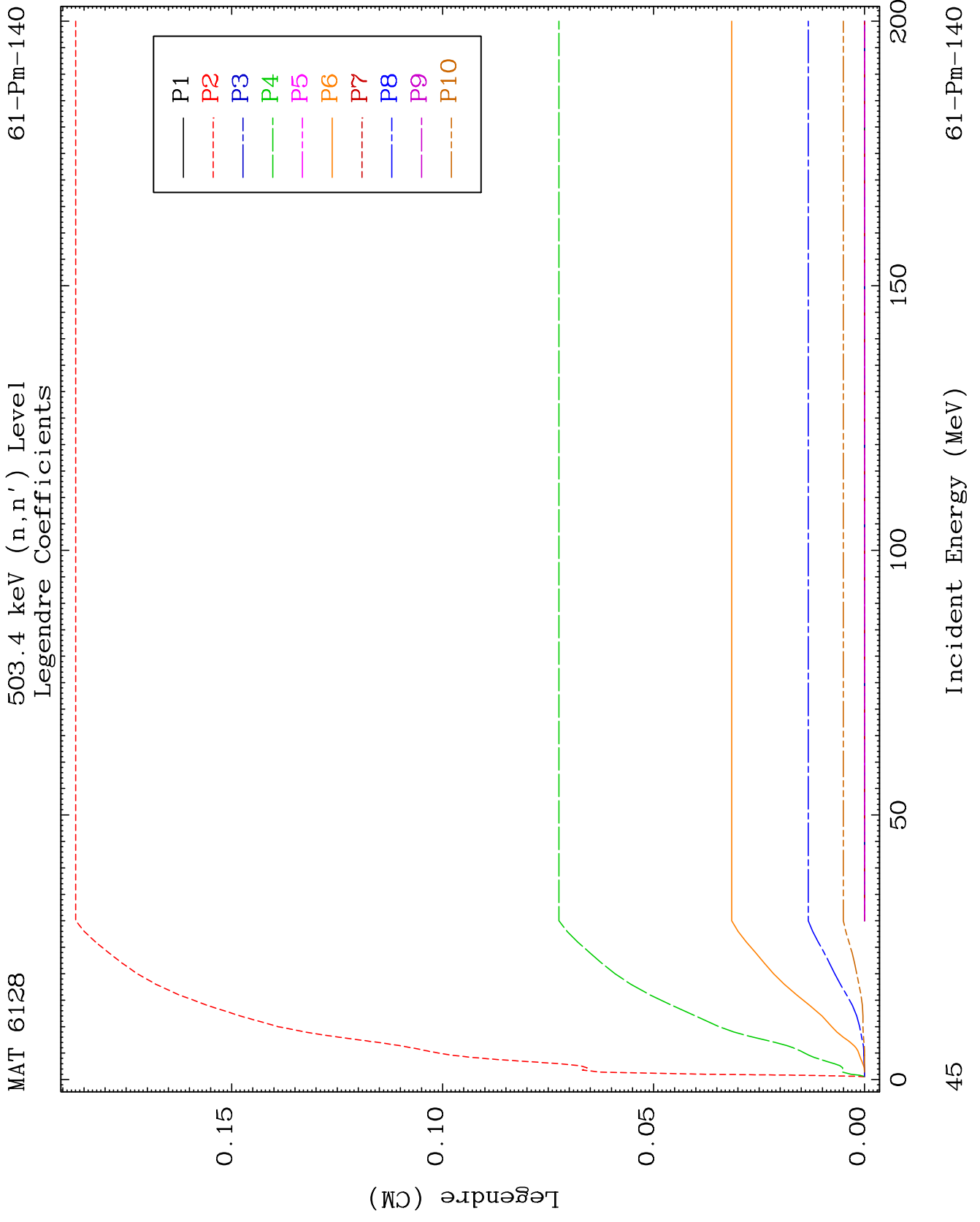


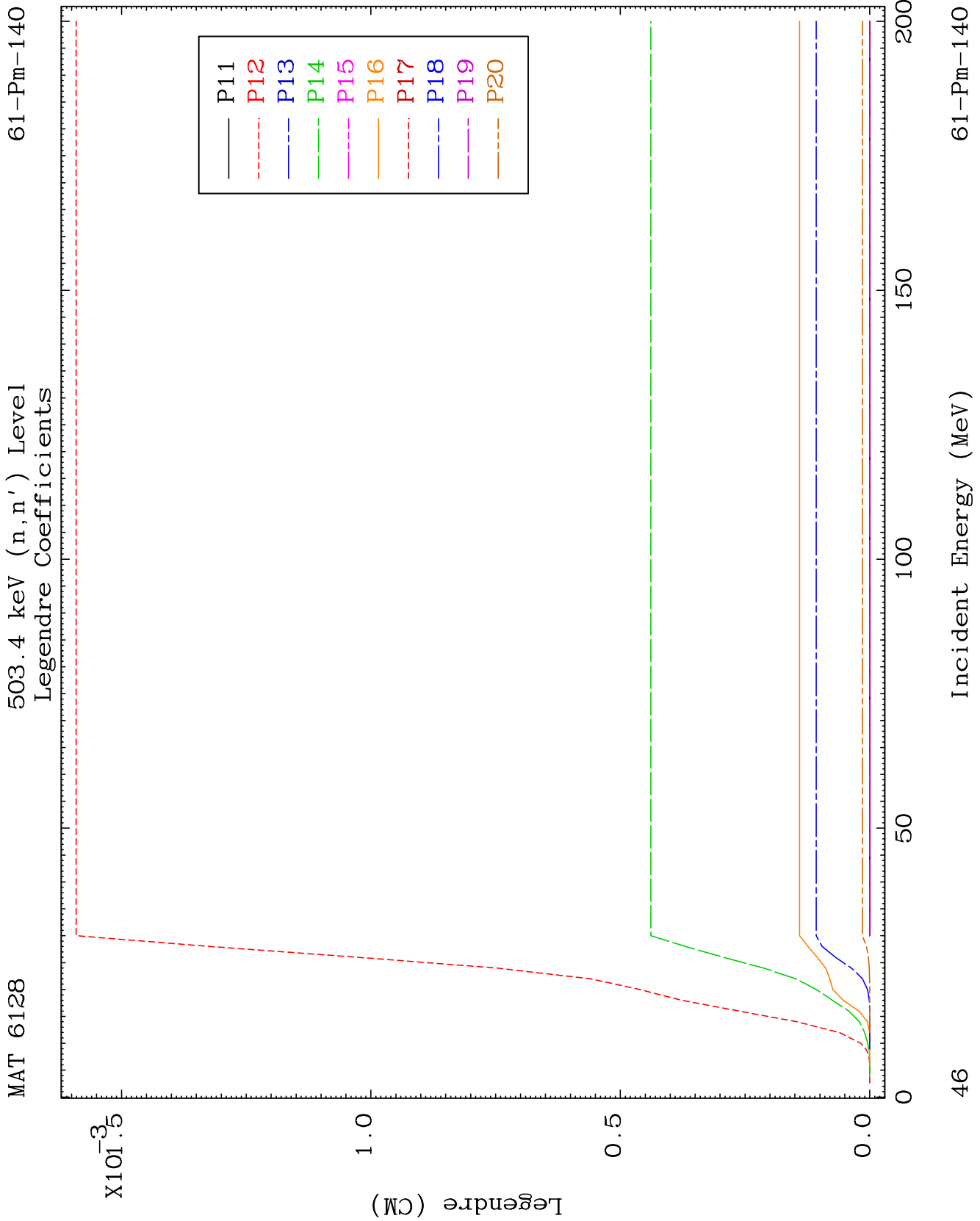


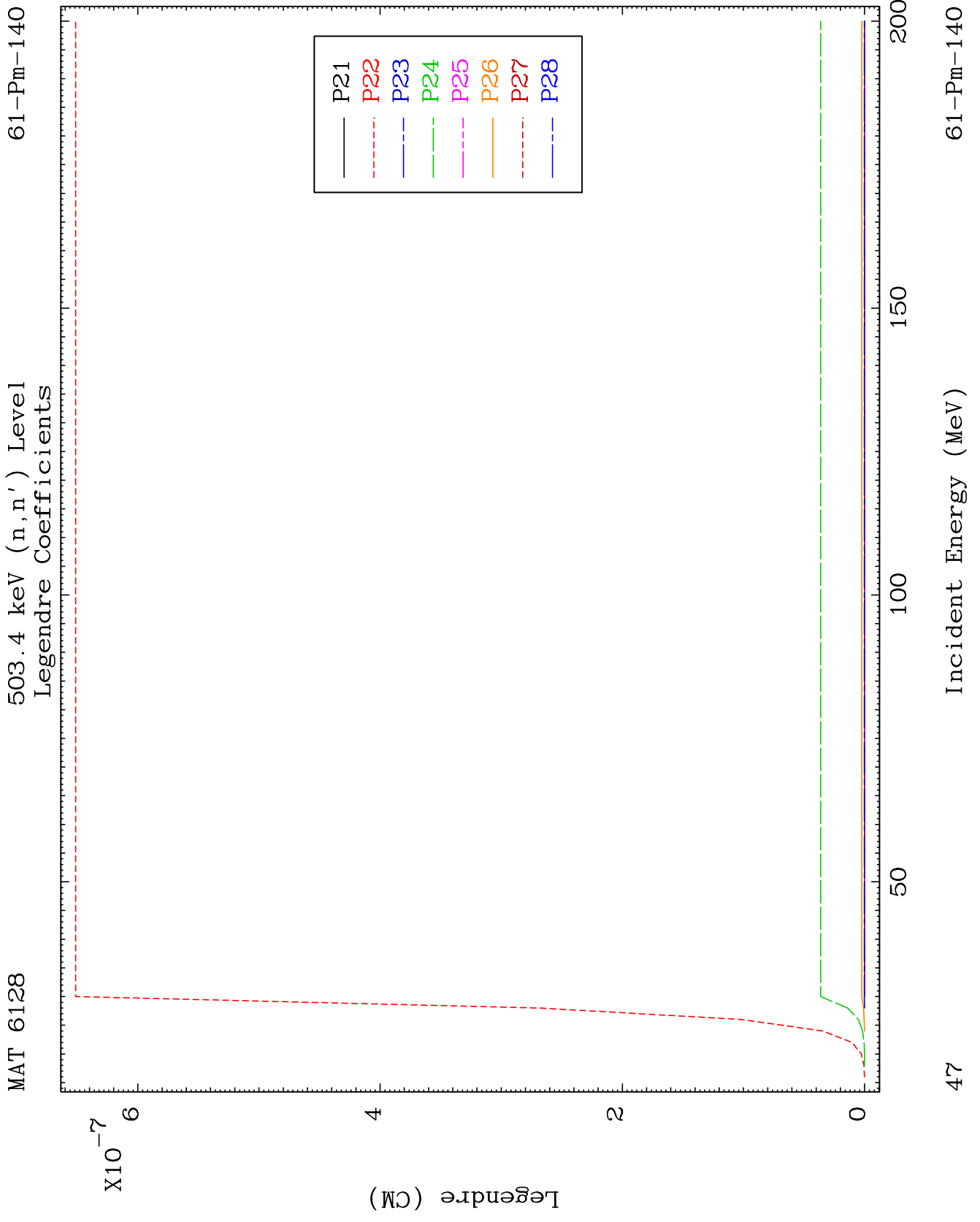


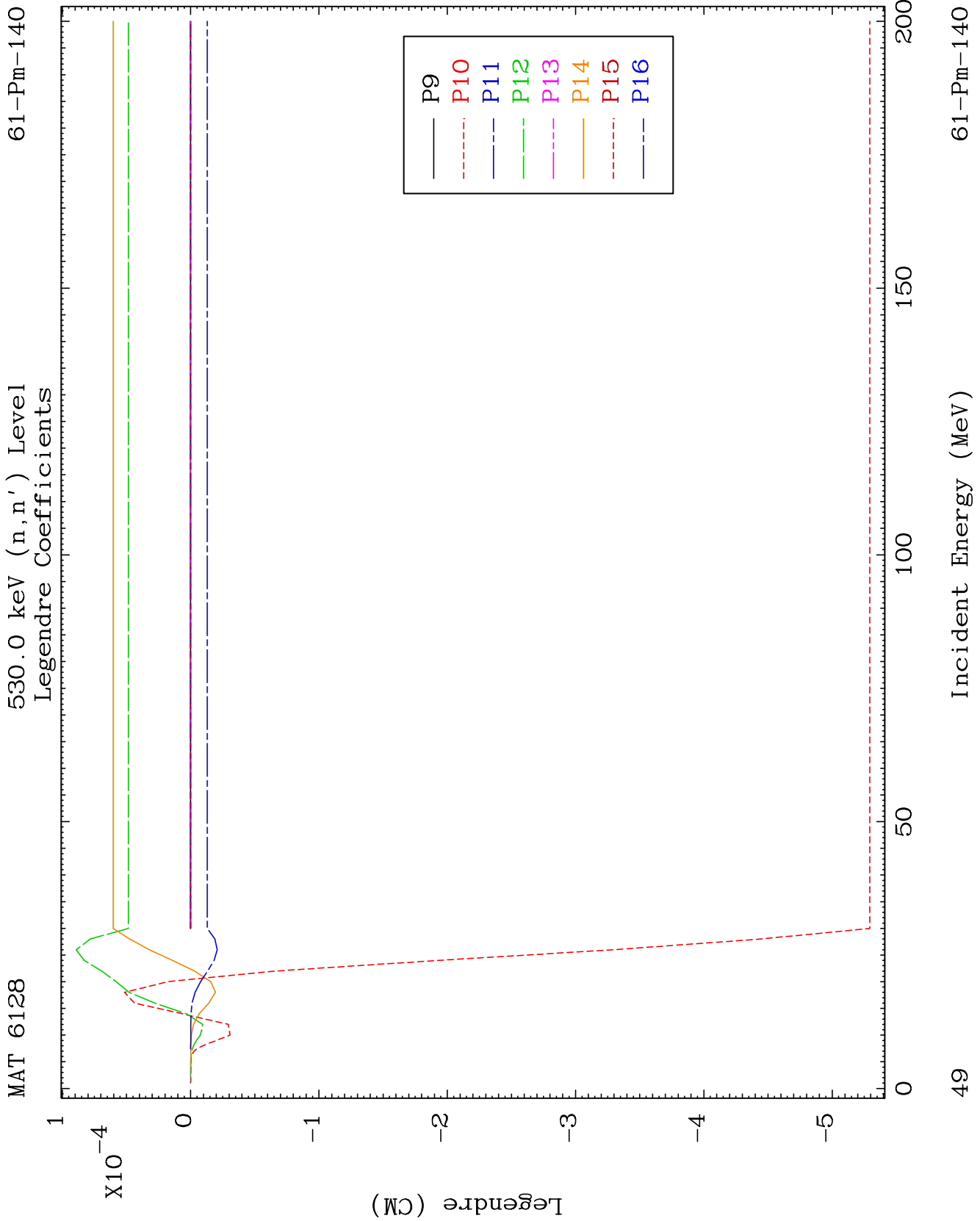


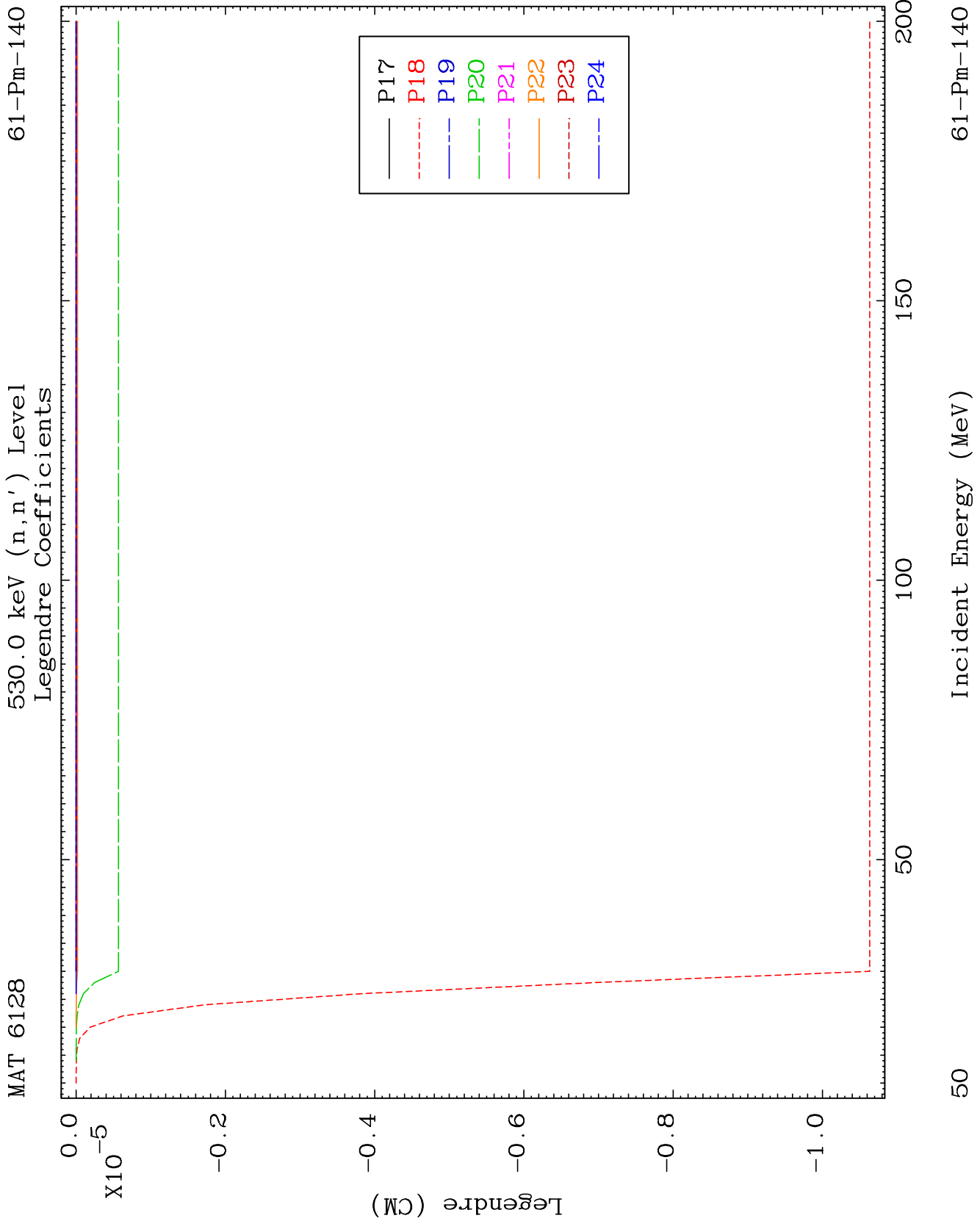








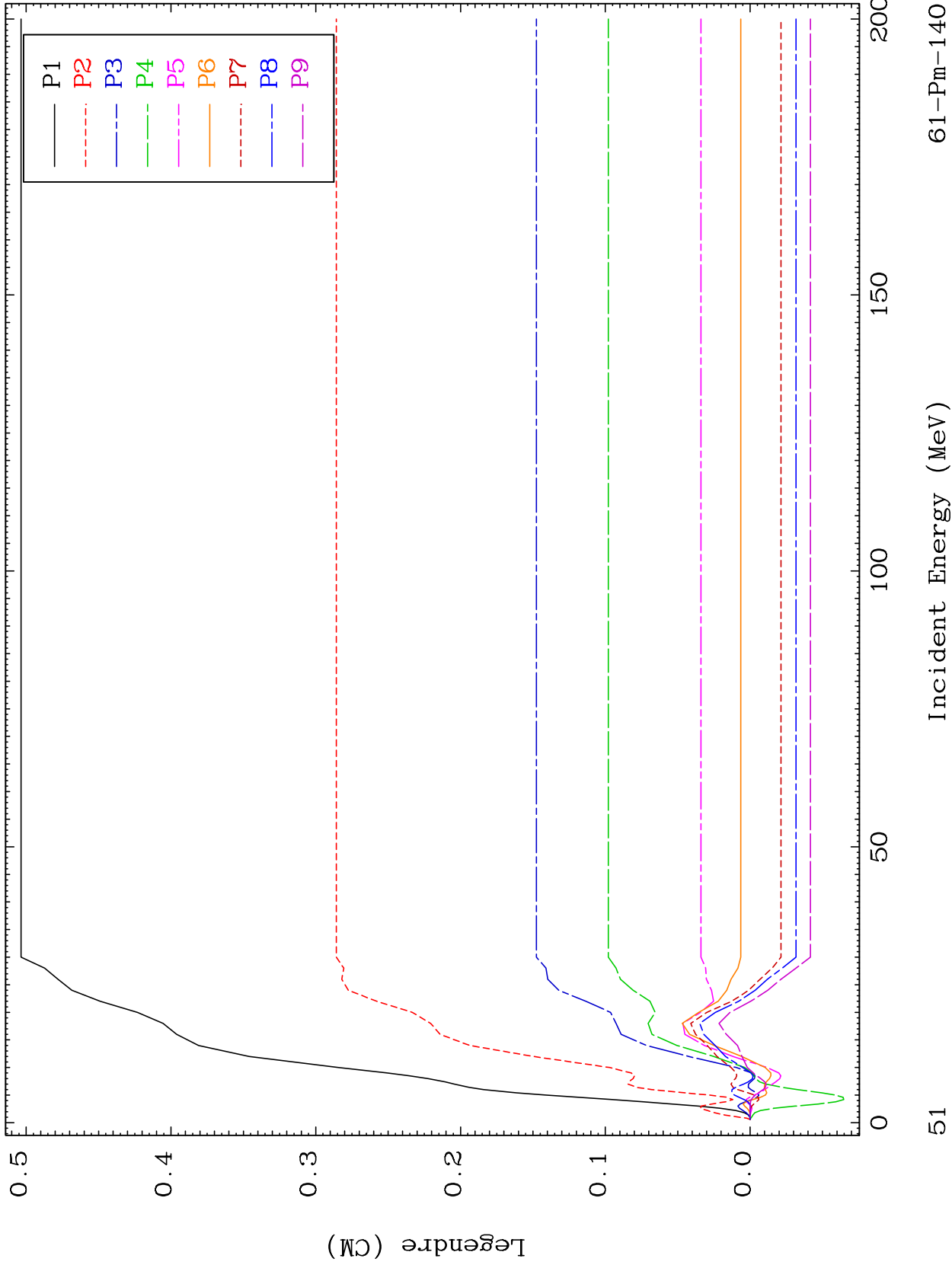




MAT 6128

534.0 keV (n,n') Level
Legendre Coefficients

61-Pm-140



61-Pm-140

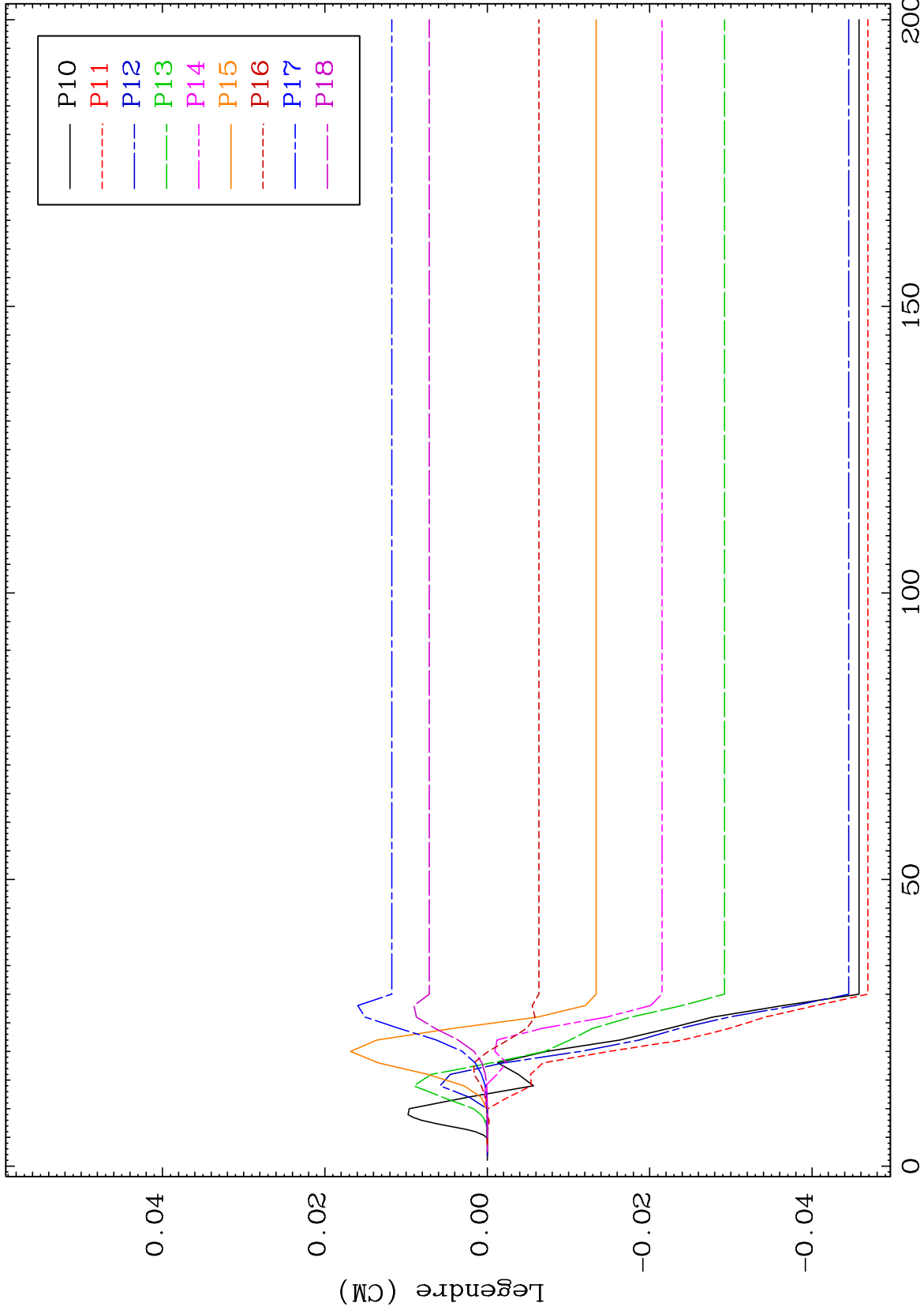
Incident Energy (MeV)

51

MAT 6128

534.0 keV (n,n') Level
Legendre Coefficients

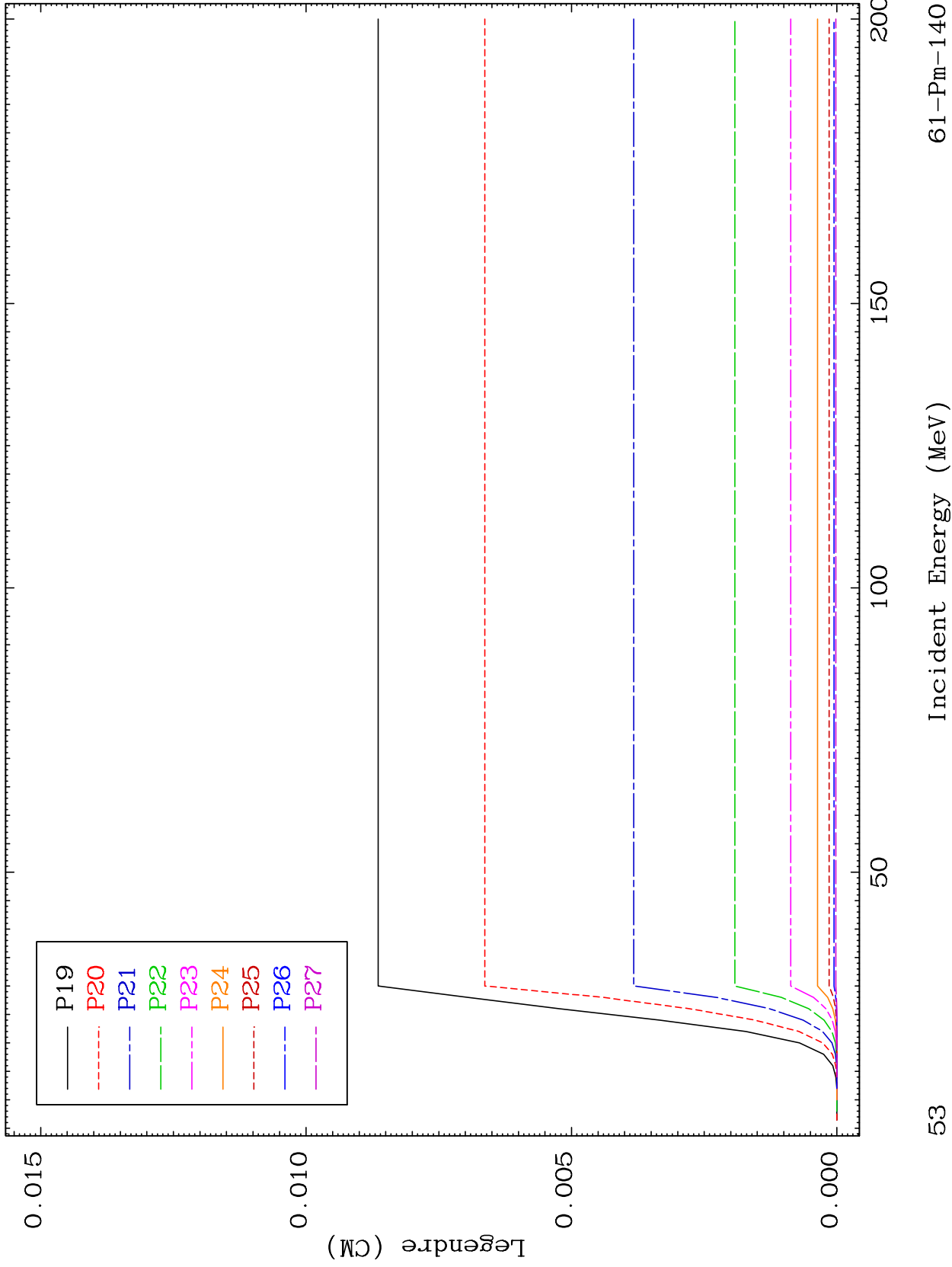
61-Pm-140



52

Incident Energy (MeV)

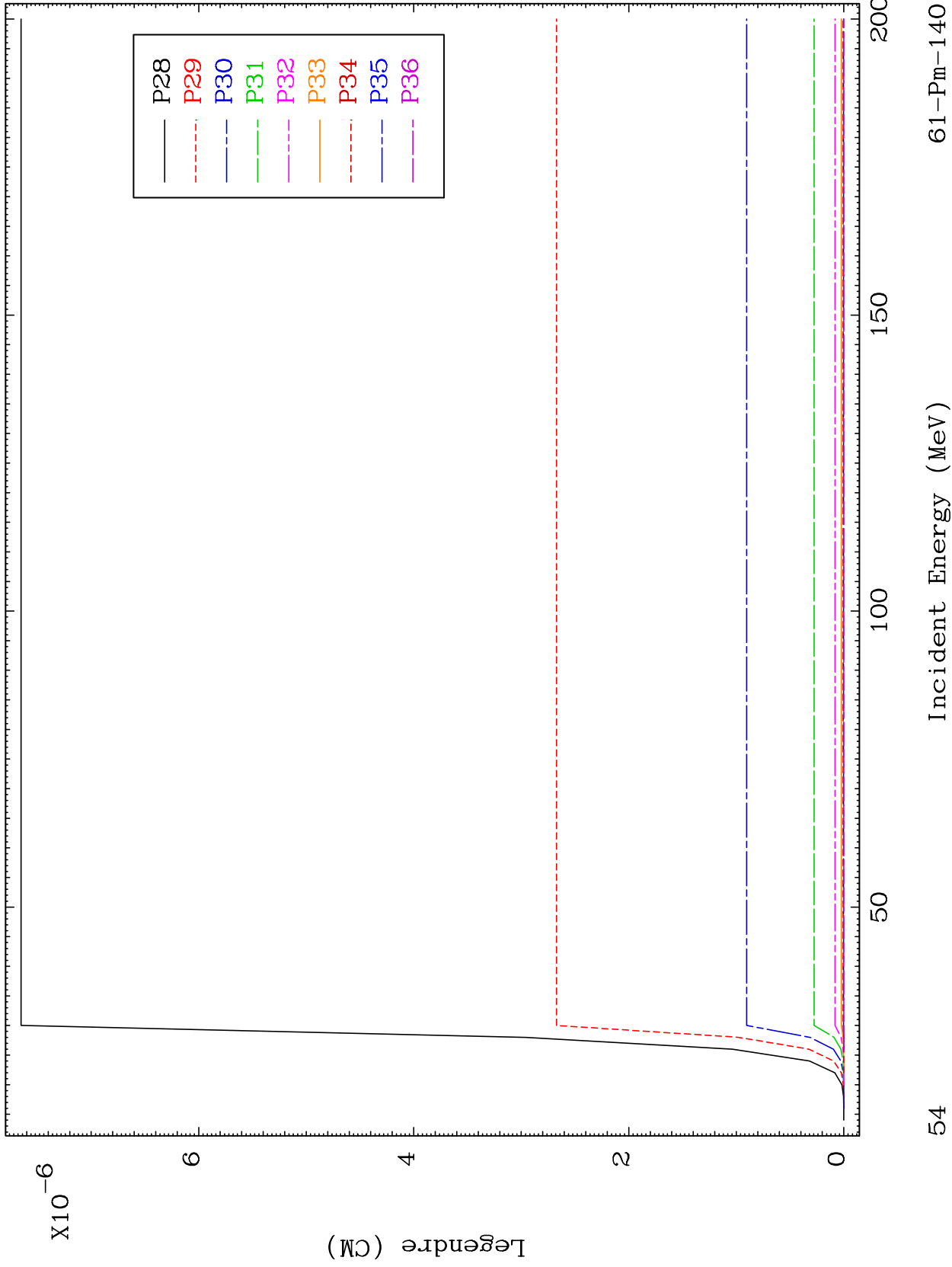
61-Pm-140



MAT 6128

534.0 keV (n, n') Level
Legendre Coefficients

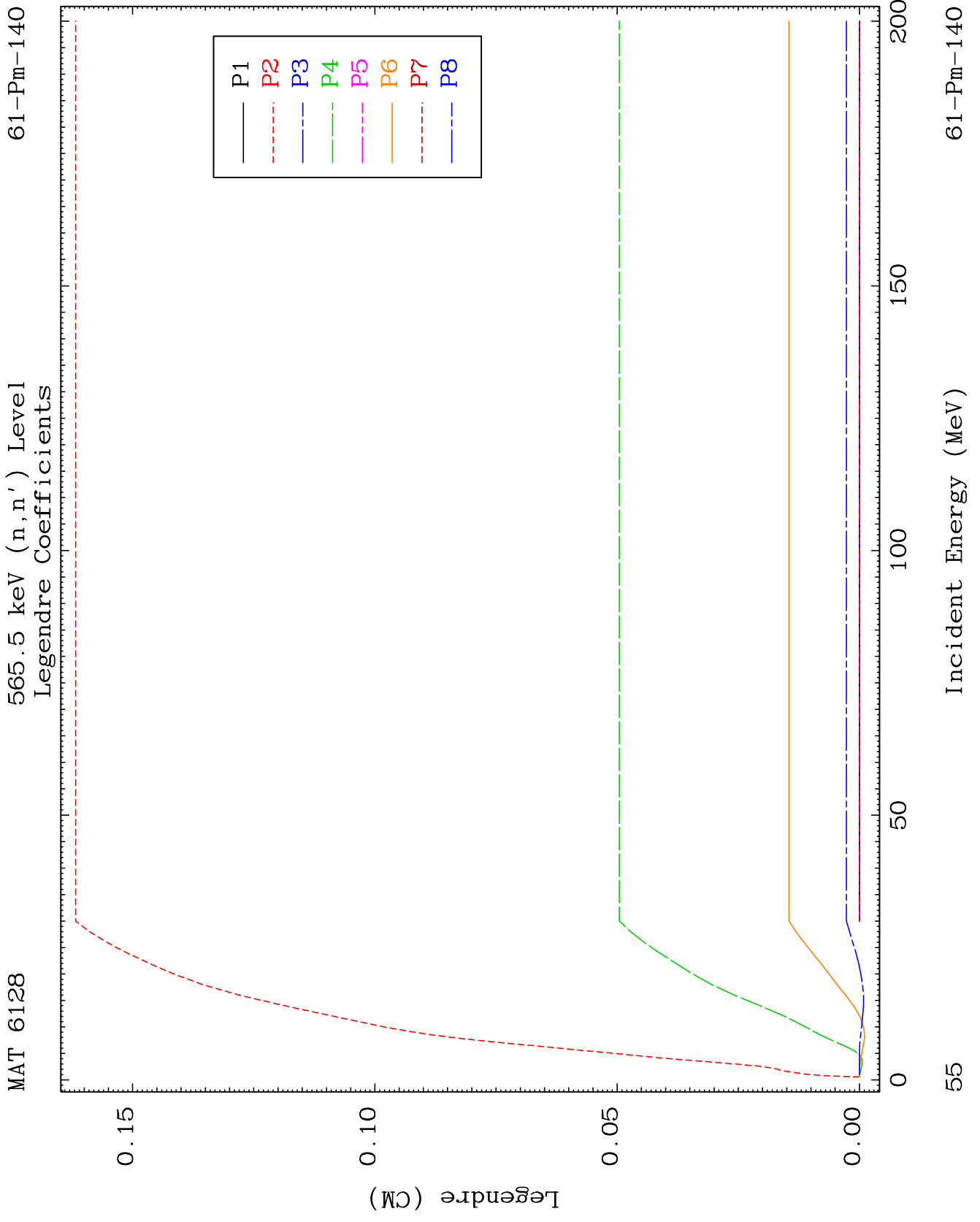
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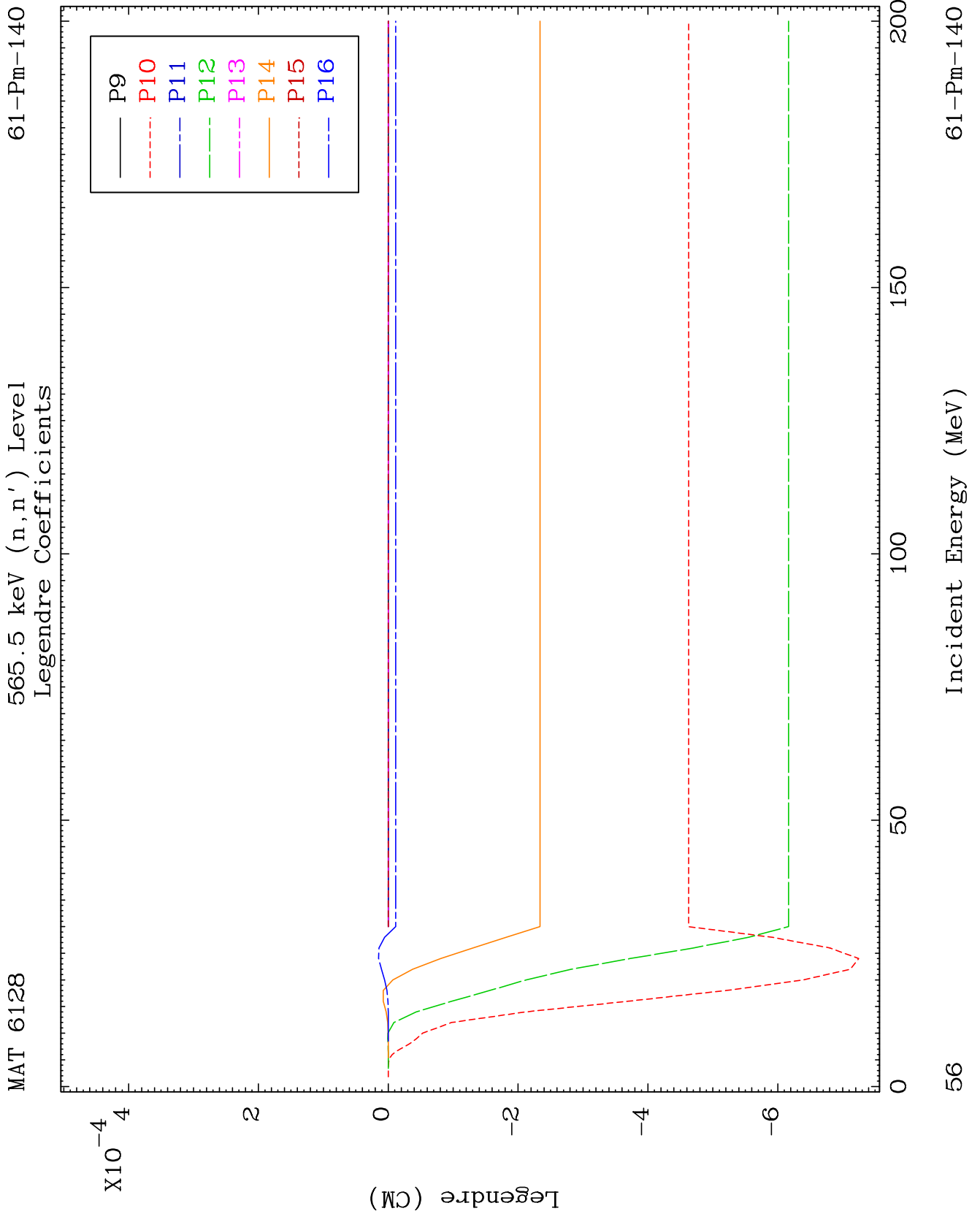


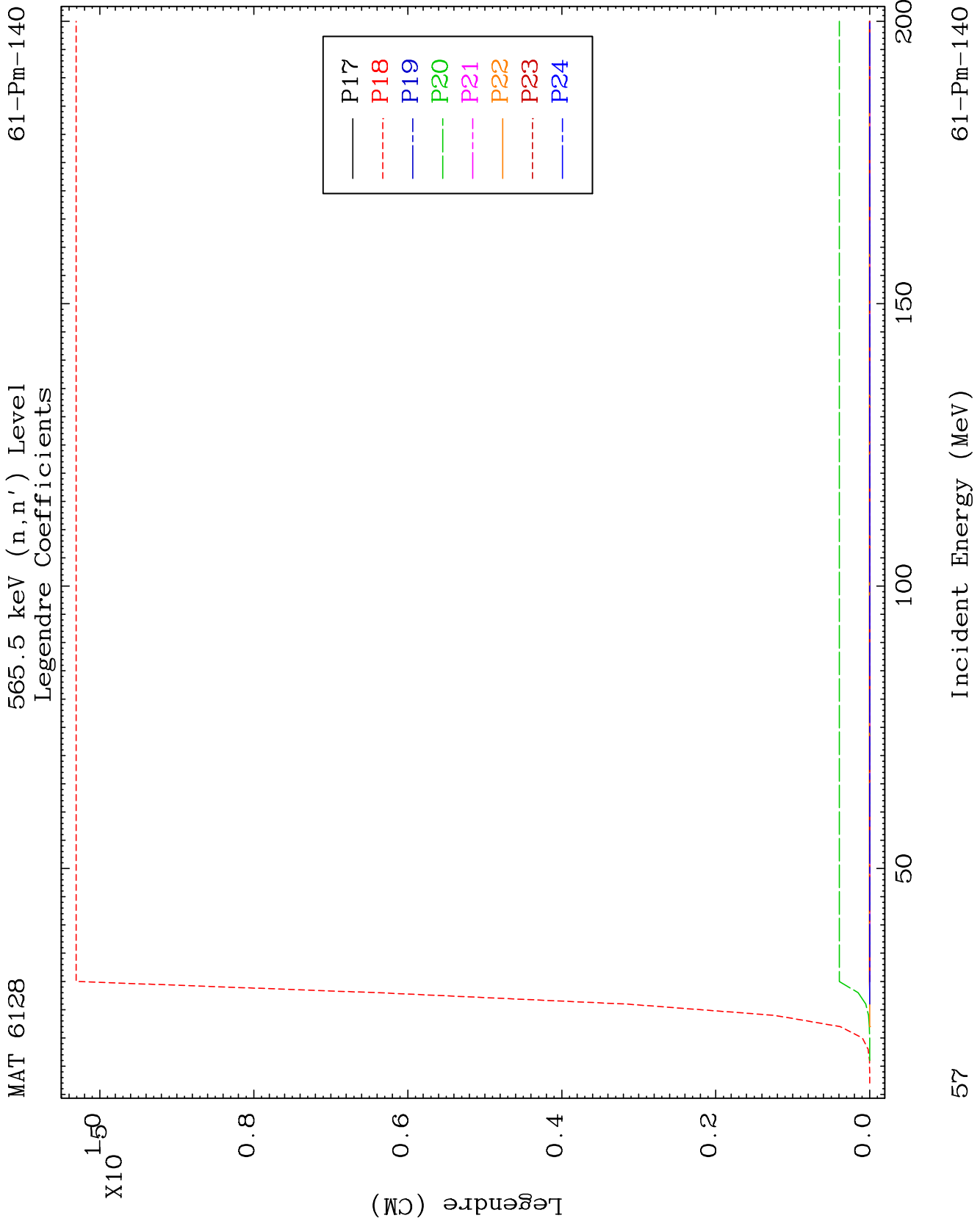
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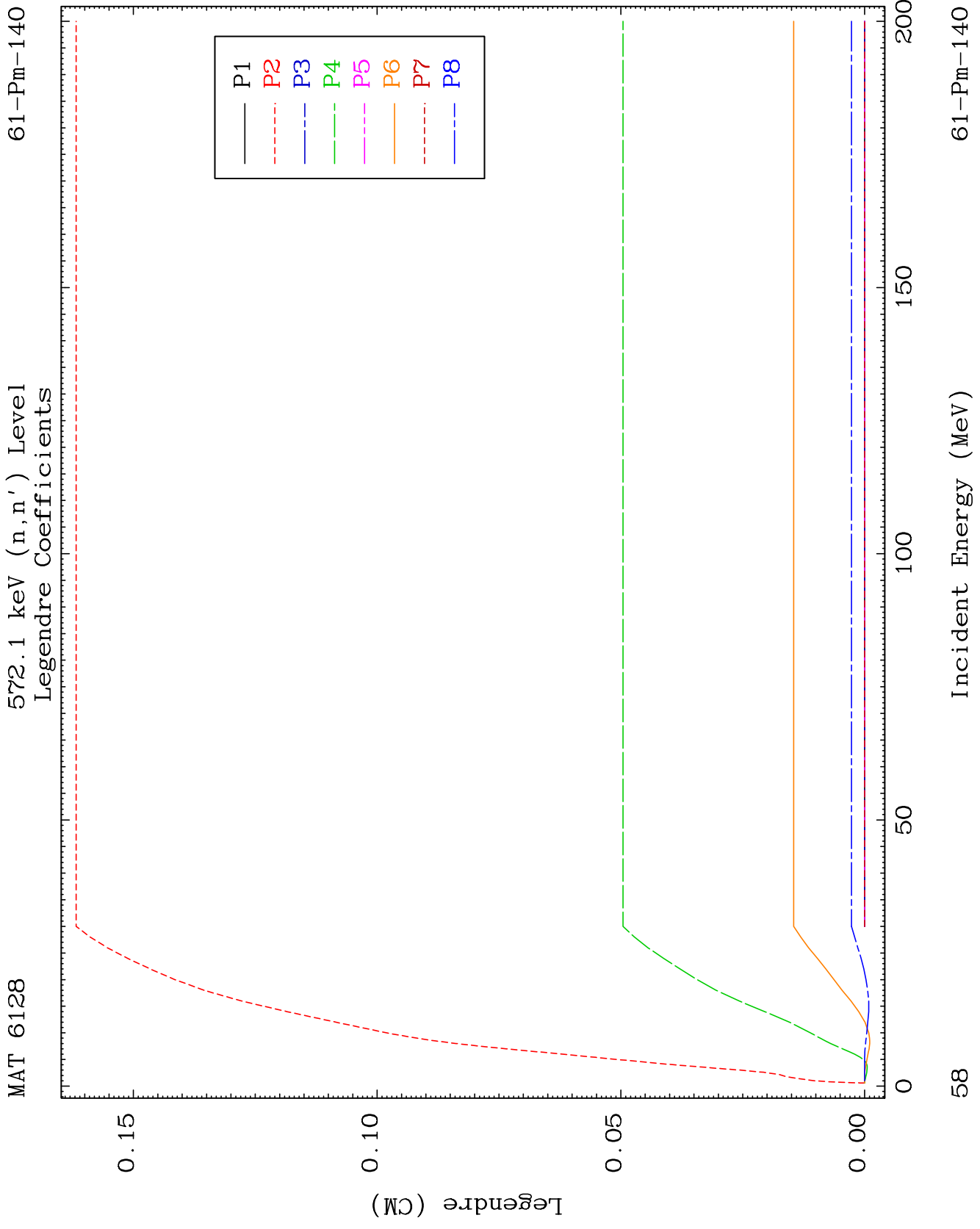
Incident Energy (MeV)

61-Pm-140





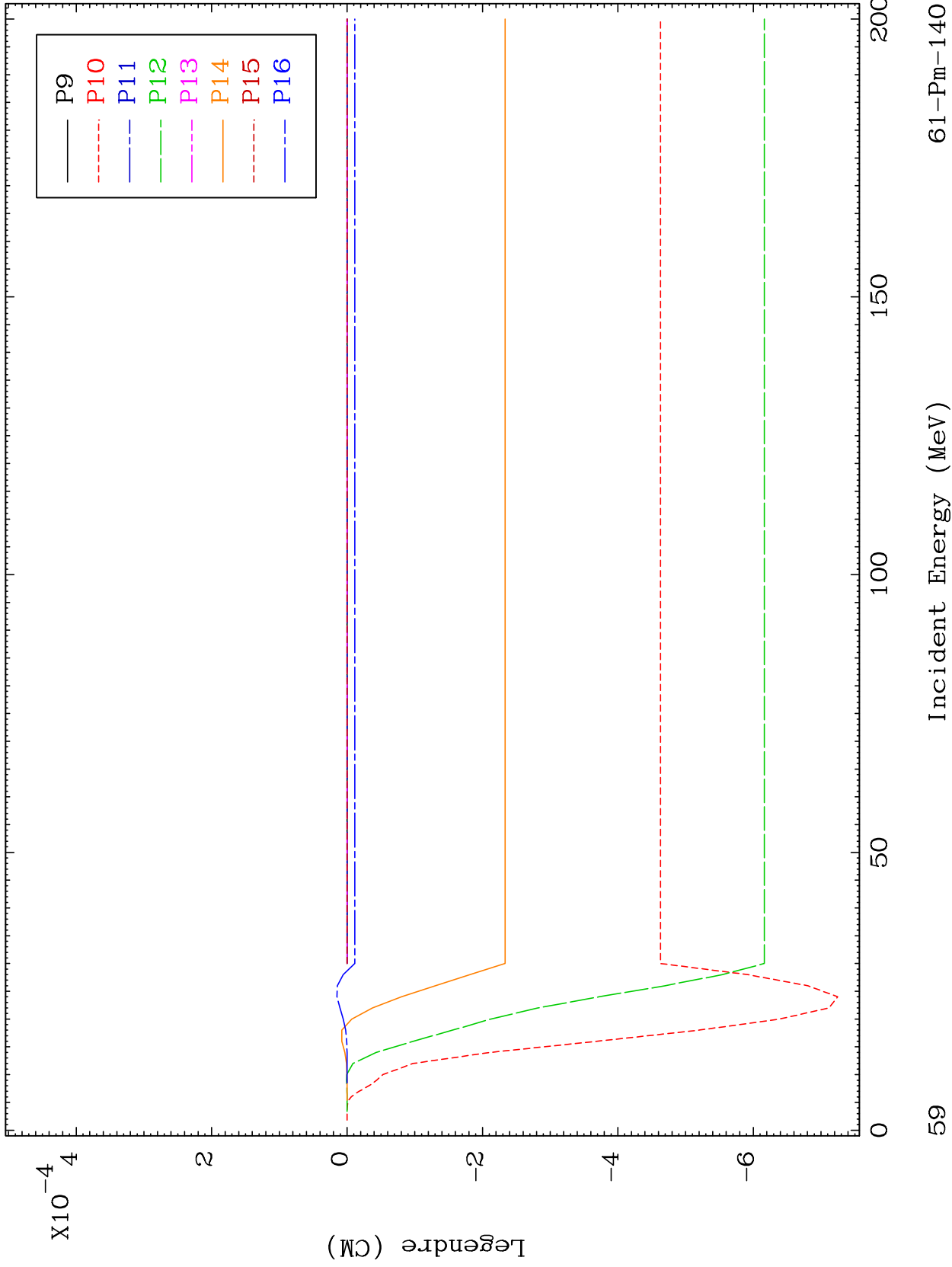




MAT 6128

572.1 keV (n,n') Level
Legendre Coefficients

61-Pm-140



59

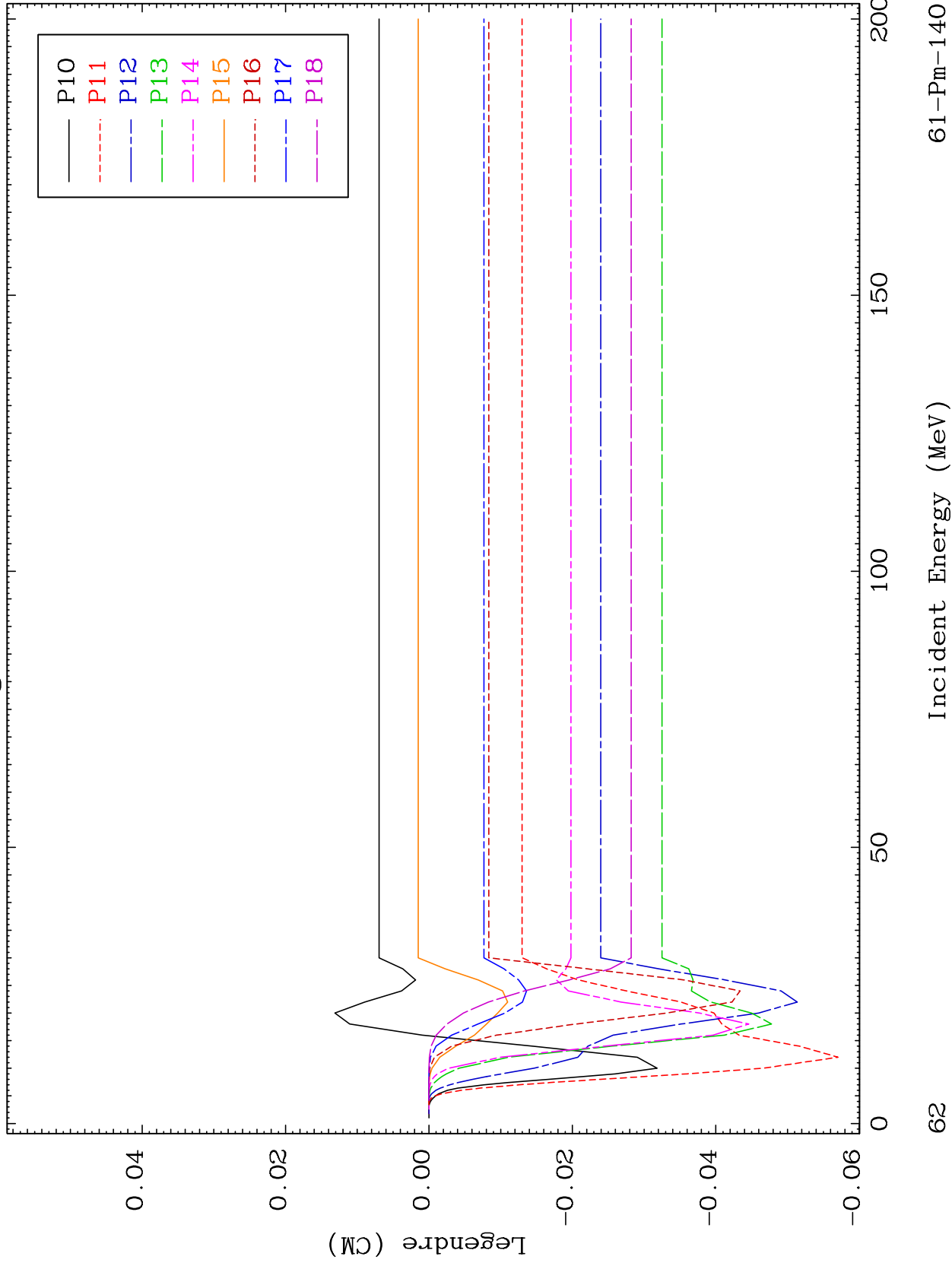
Incident Energy (MeV)

61-Pm-140

MAT 6128

576.3 keV (n,n') Level
Legendre Coefficients

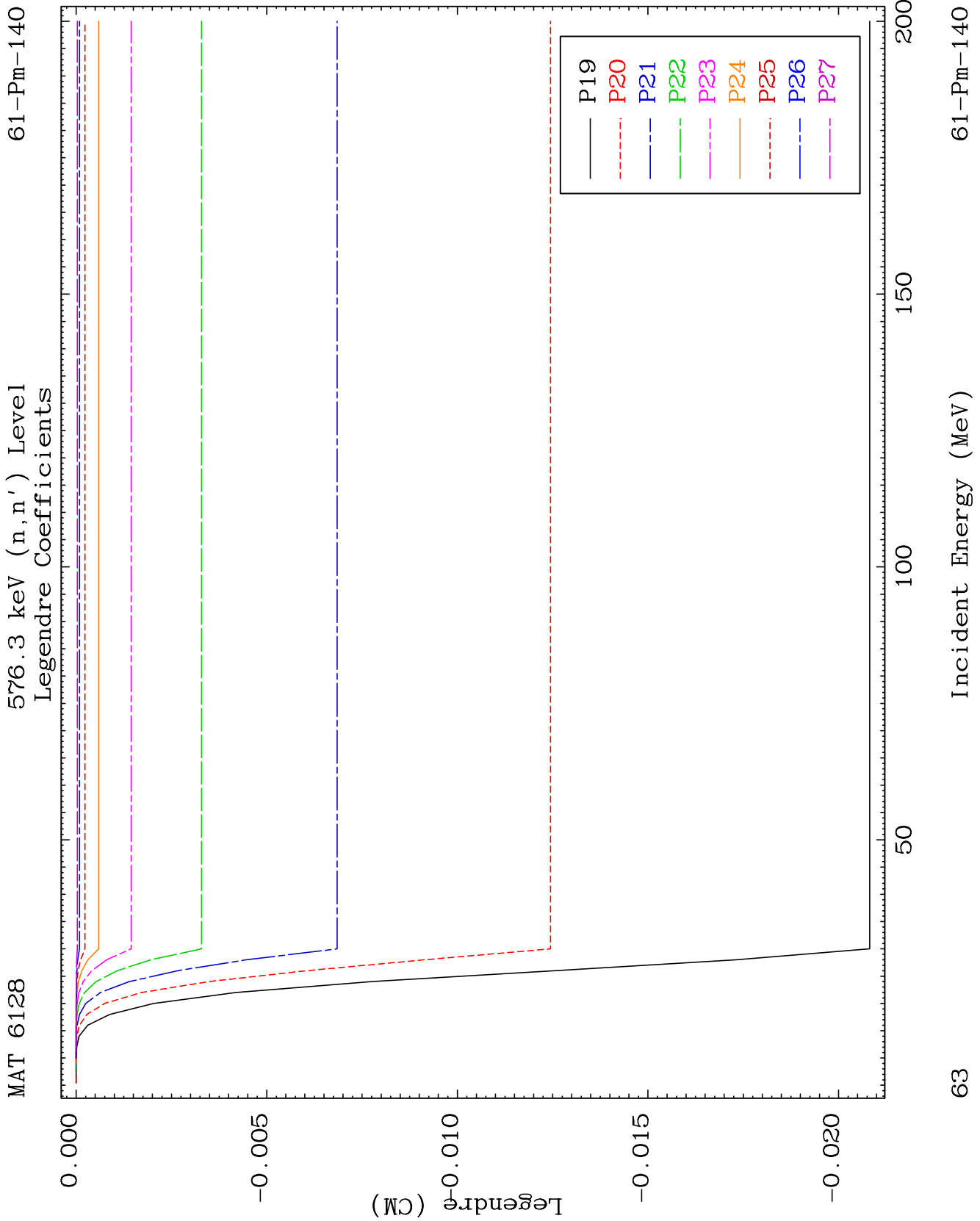
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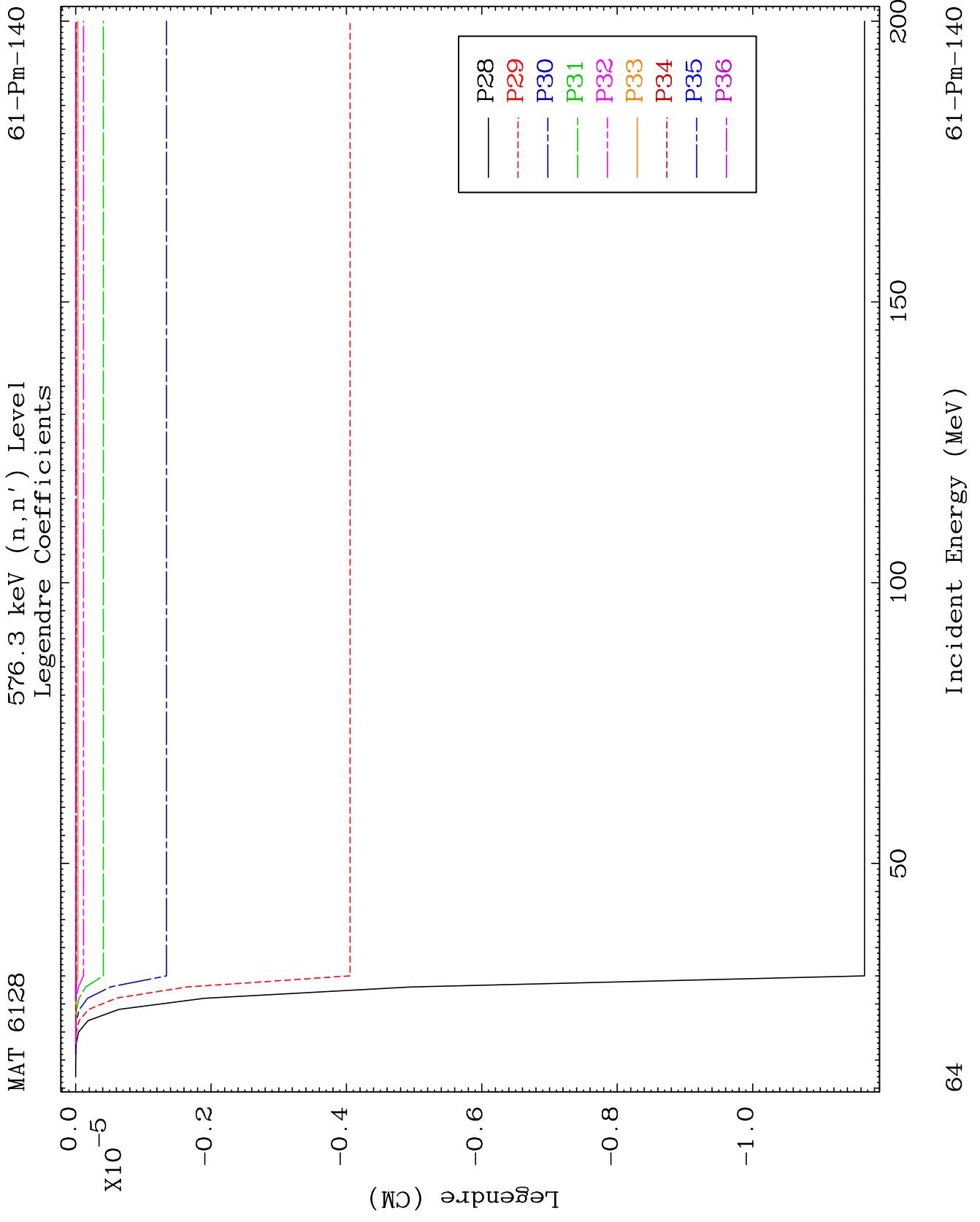


61-Pm-140

Incident Energy (MeV)

62

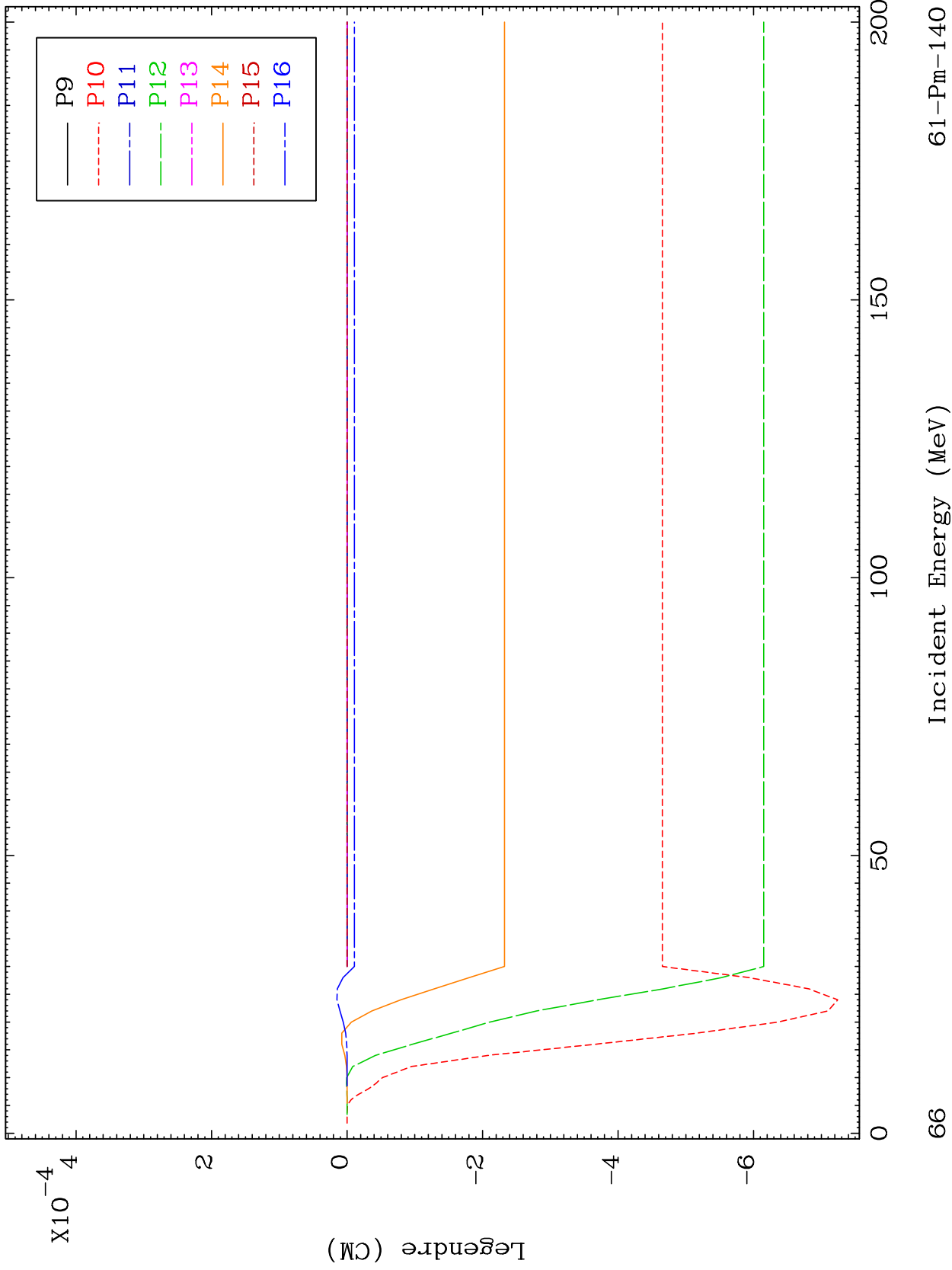




MAT 6128

652.4 keV (n,n') Level
Legendre Coefficients

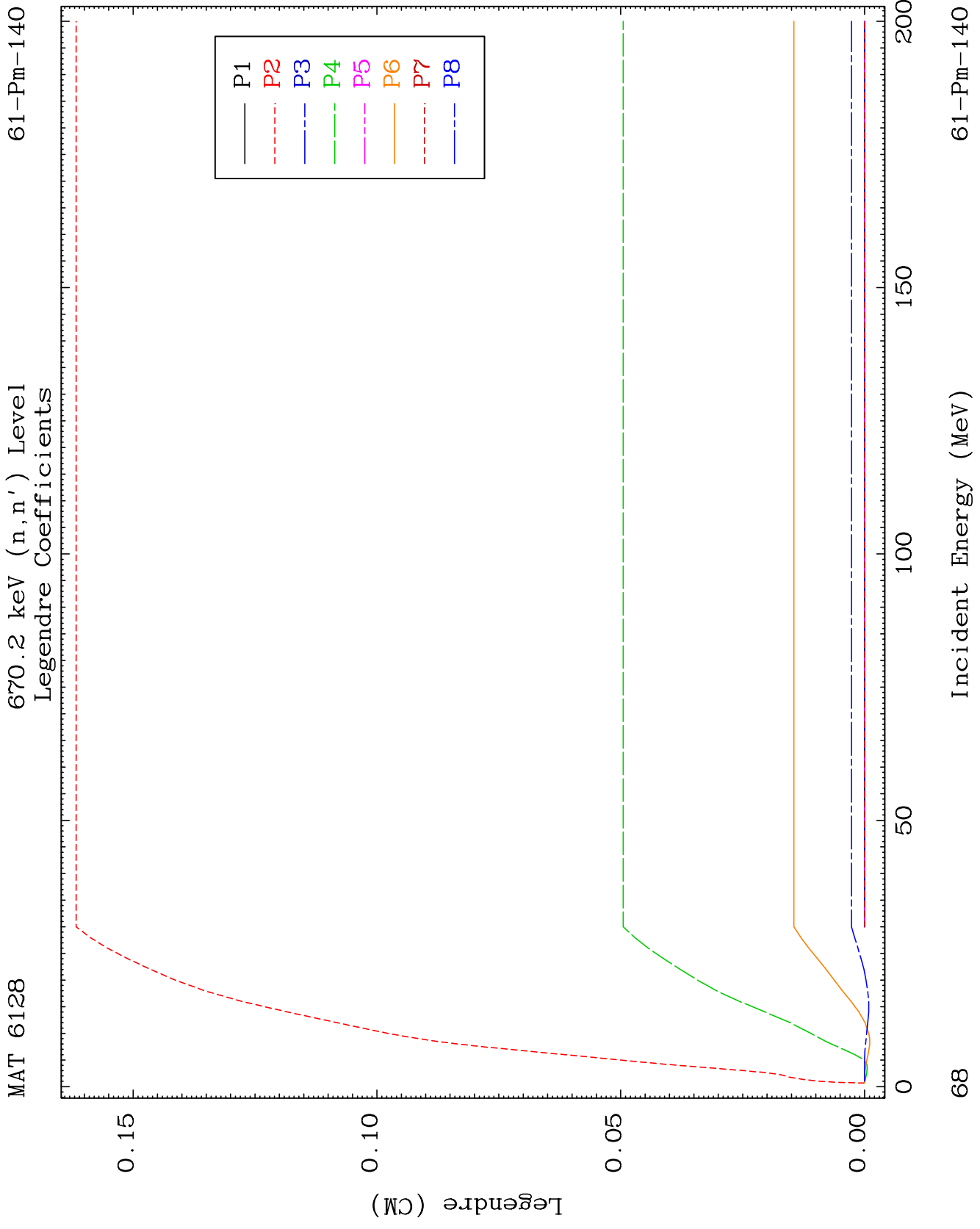
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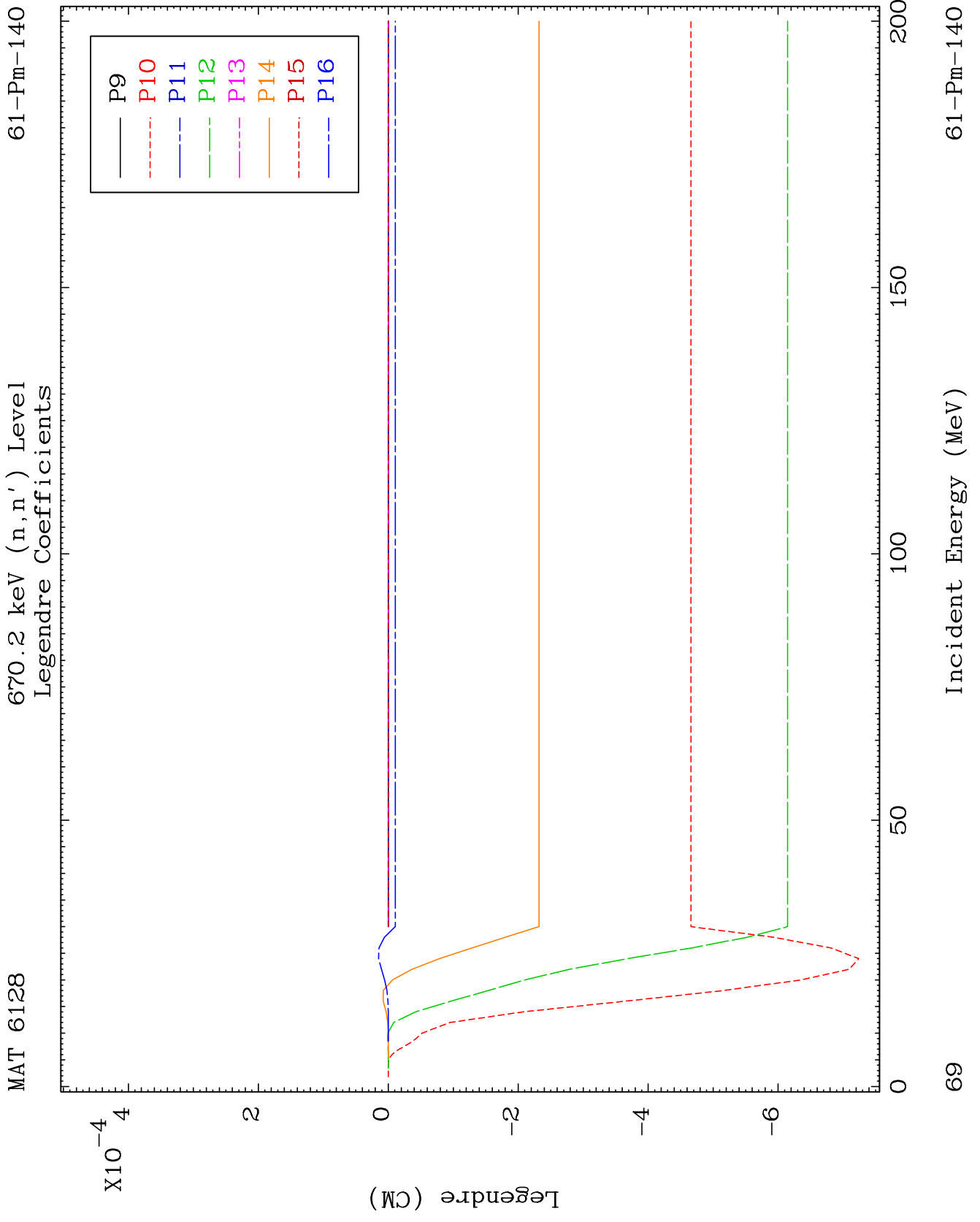


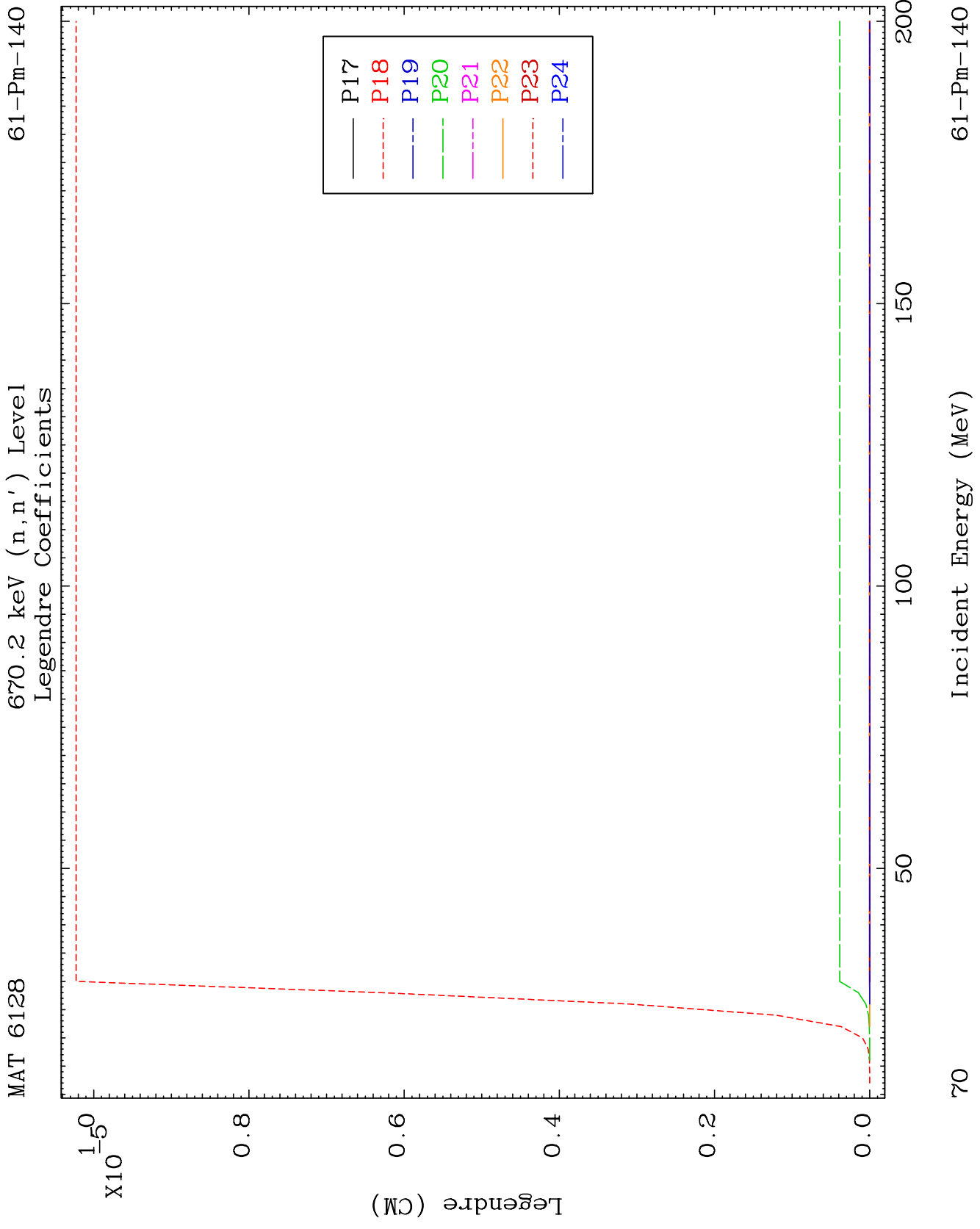
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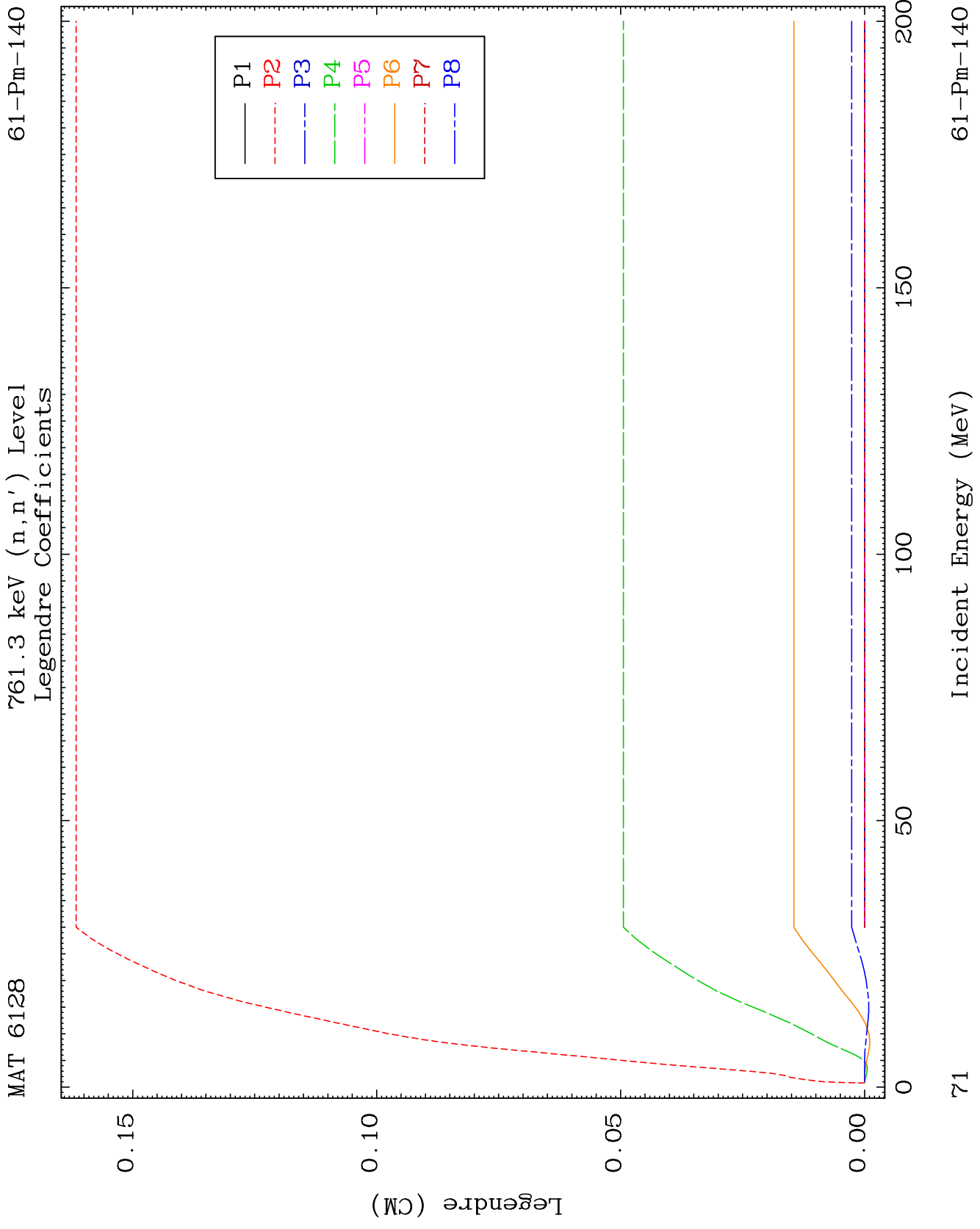
Incident Energy (MeV)

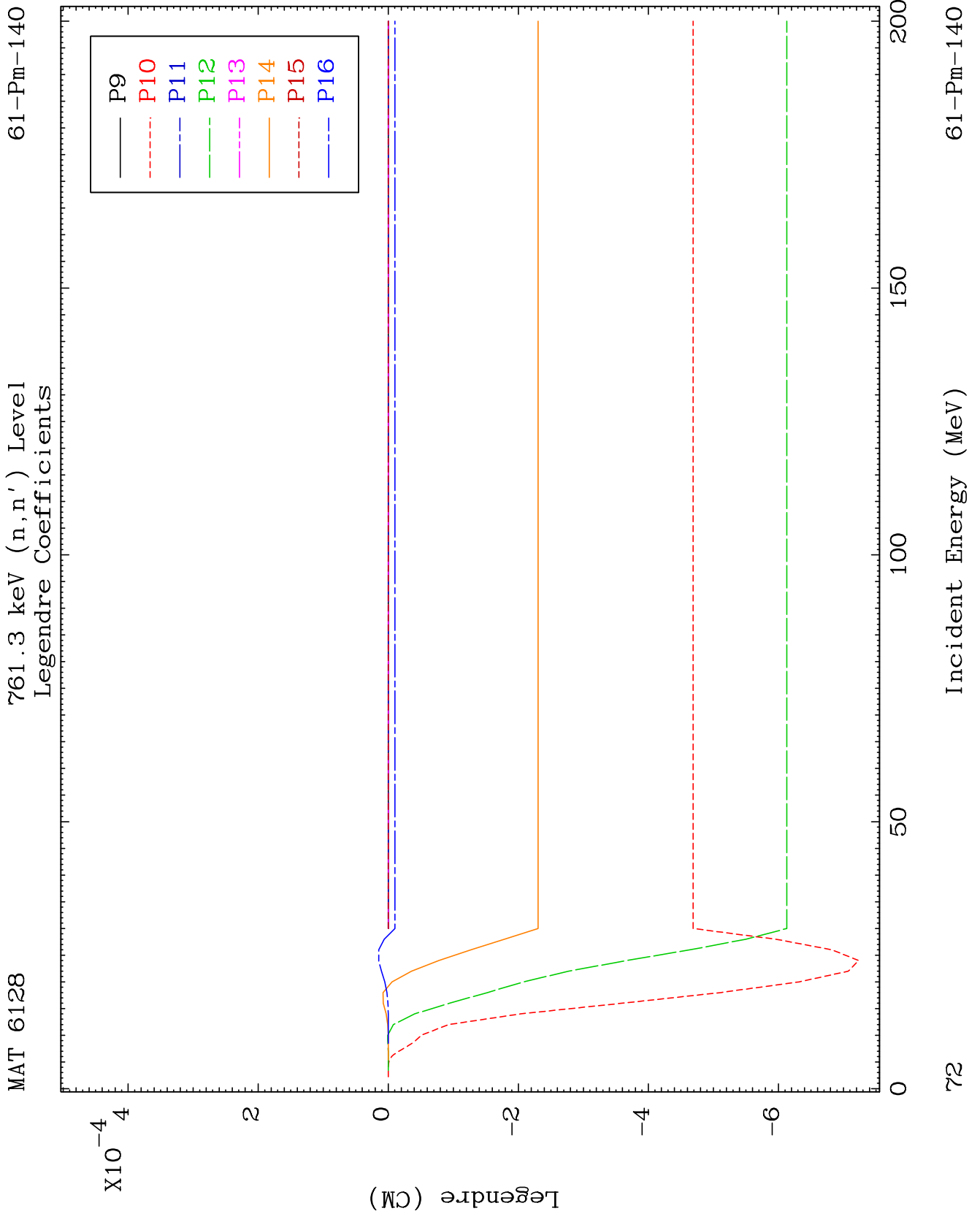
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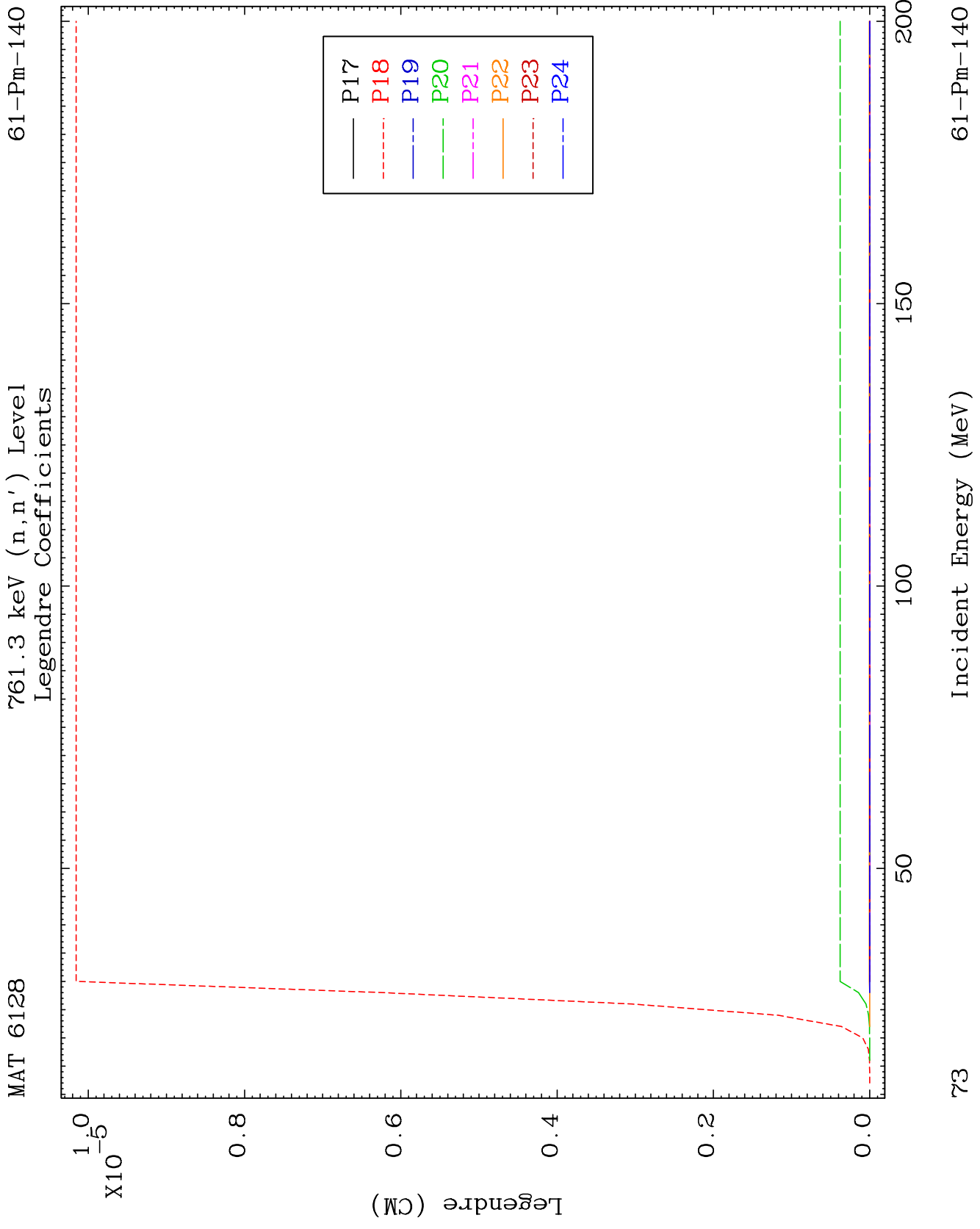


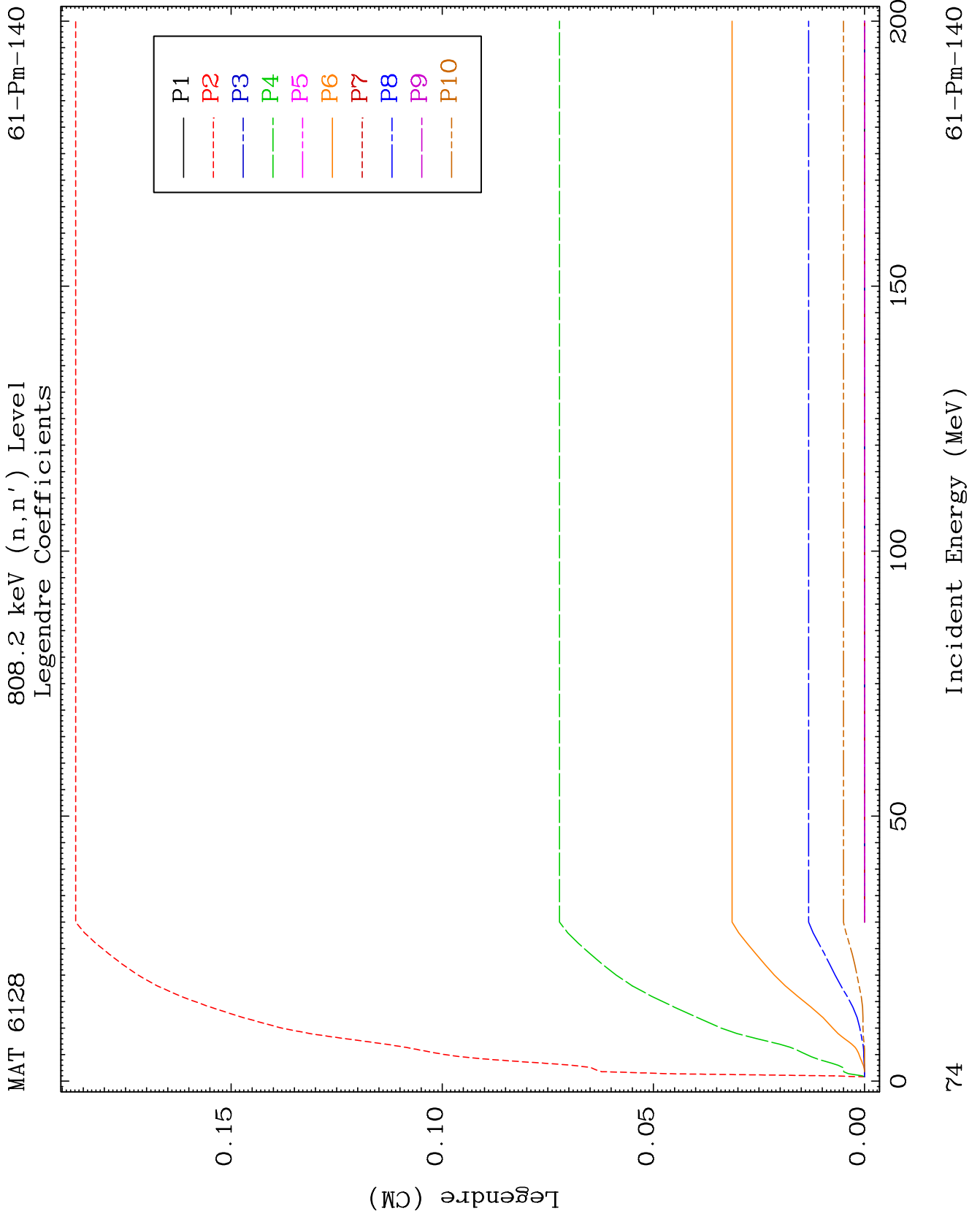


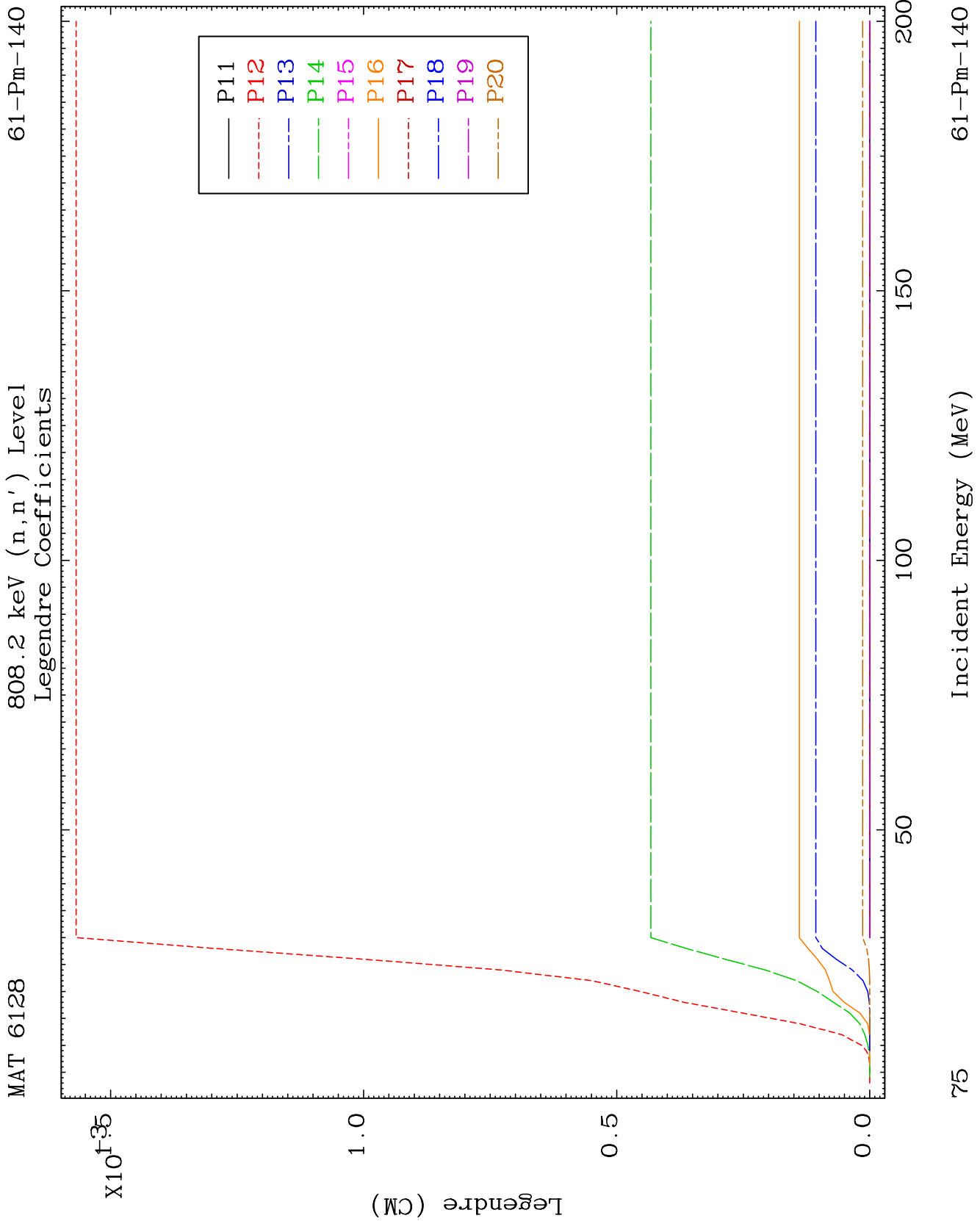


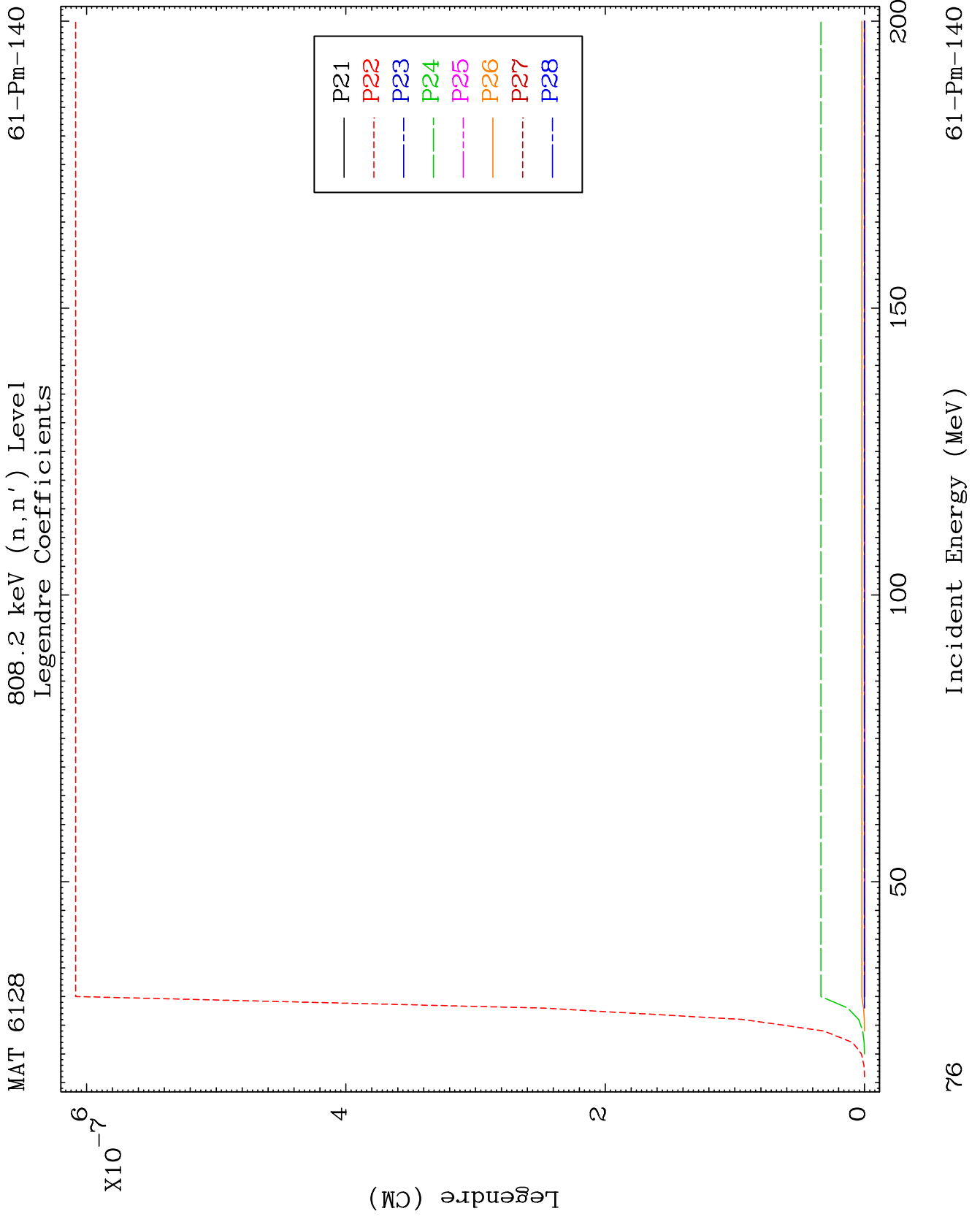


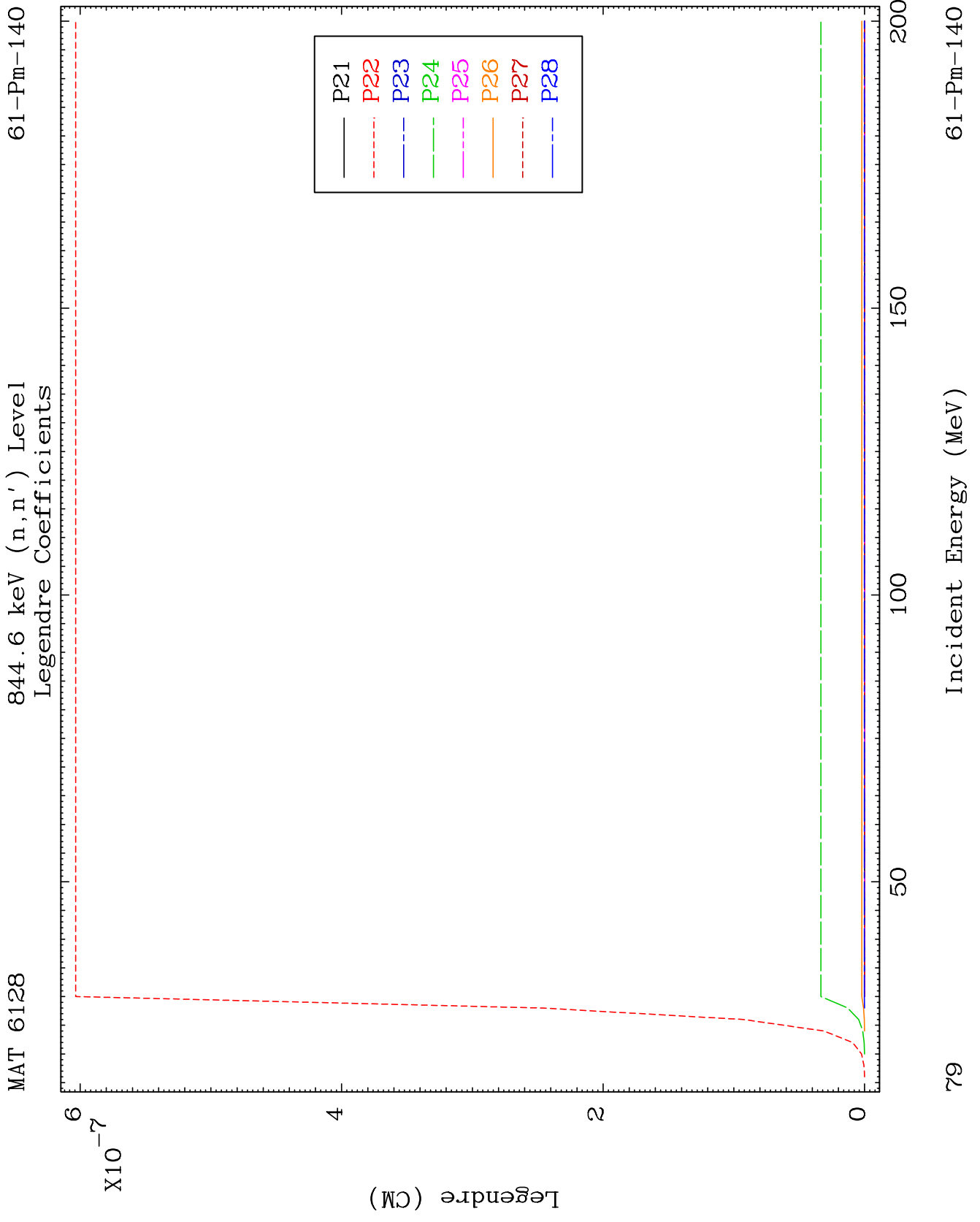








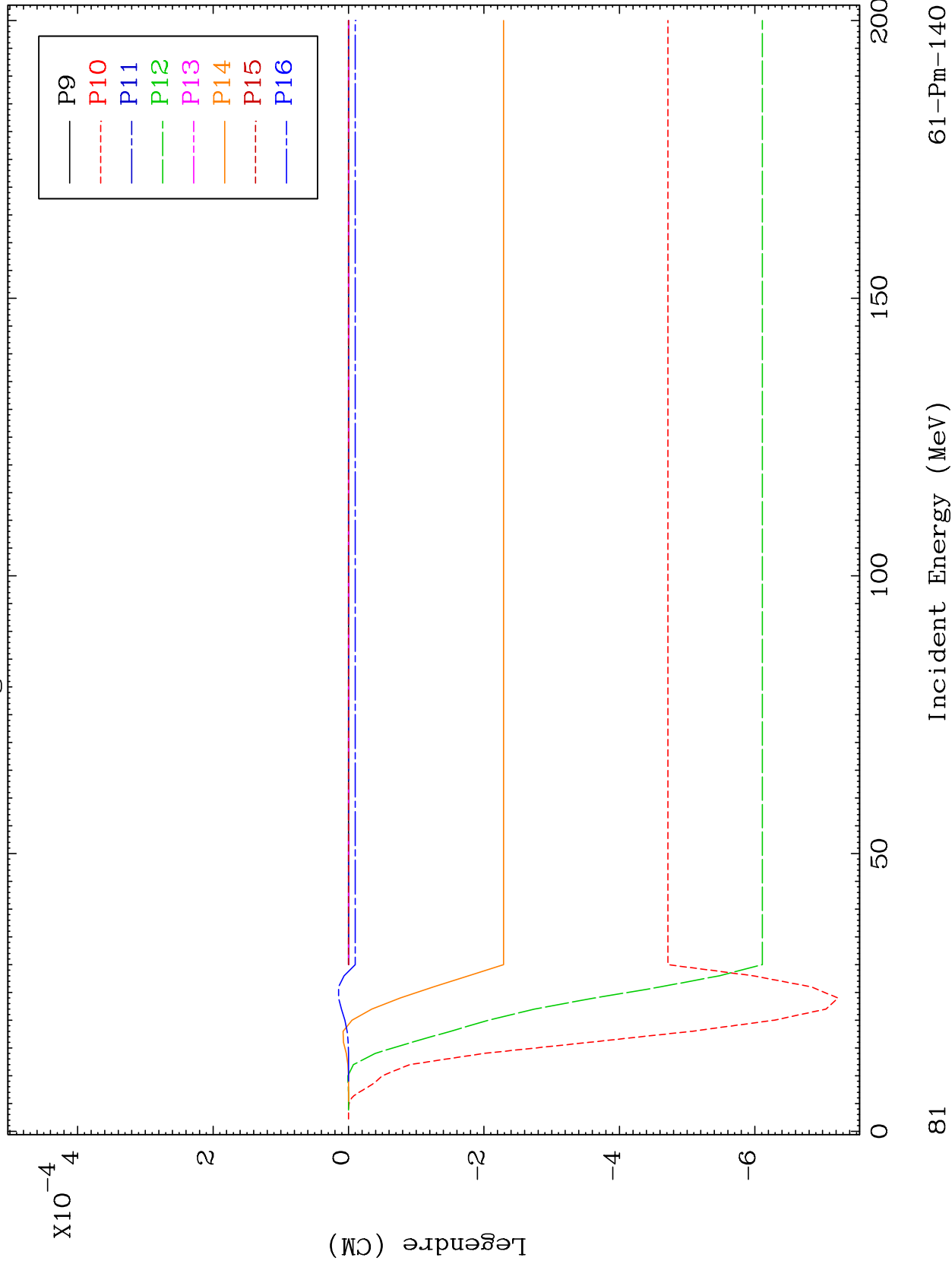


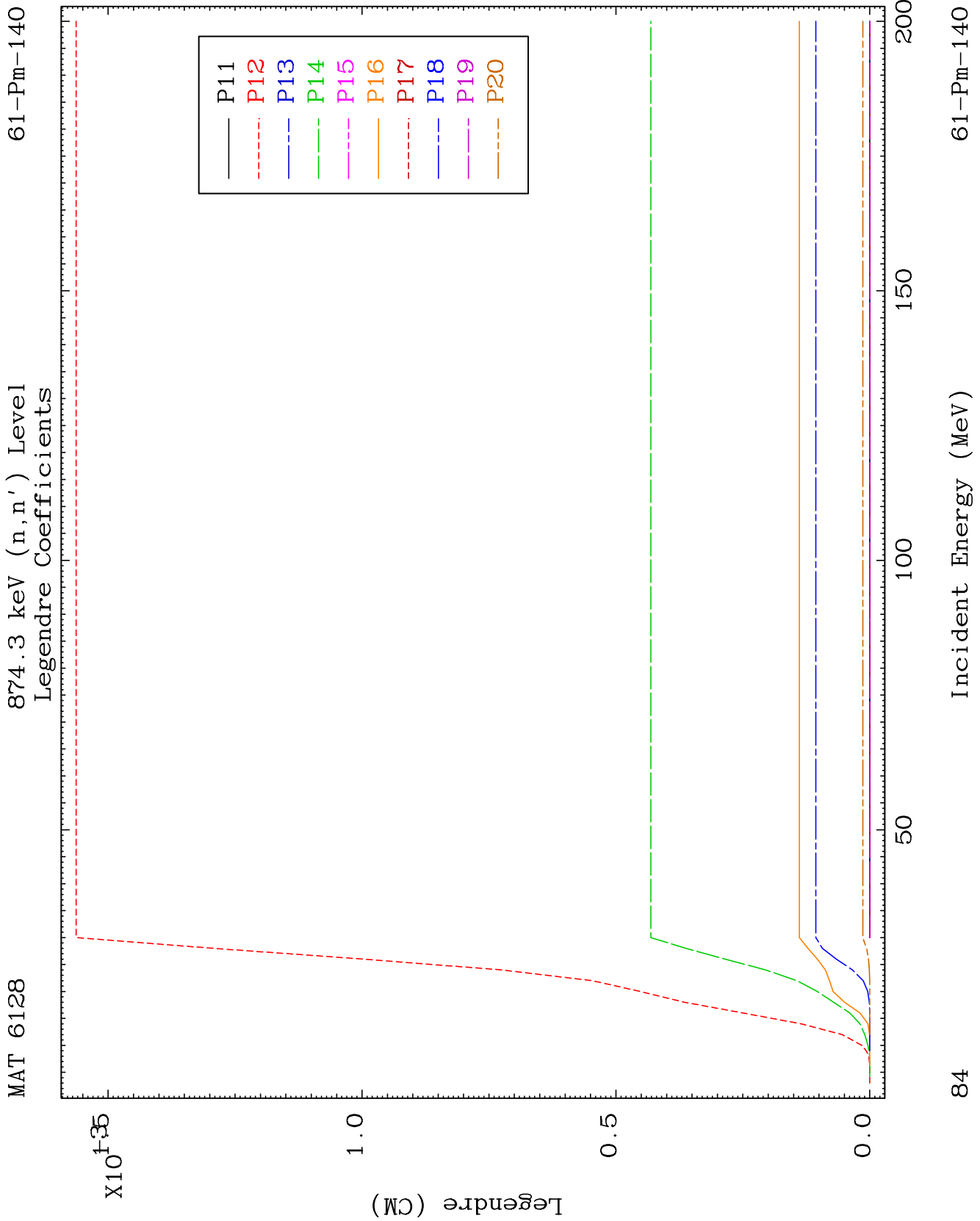


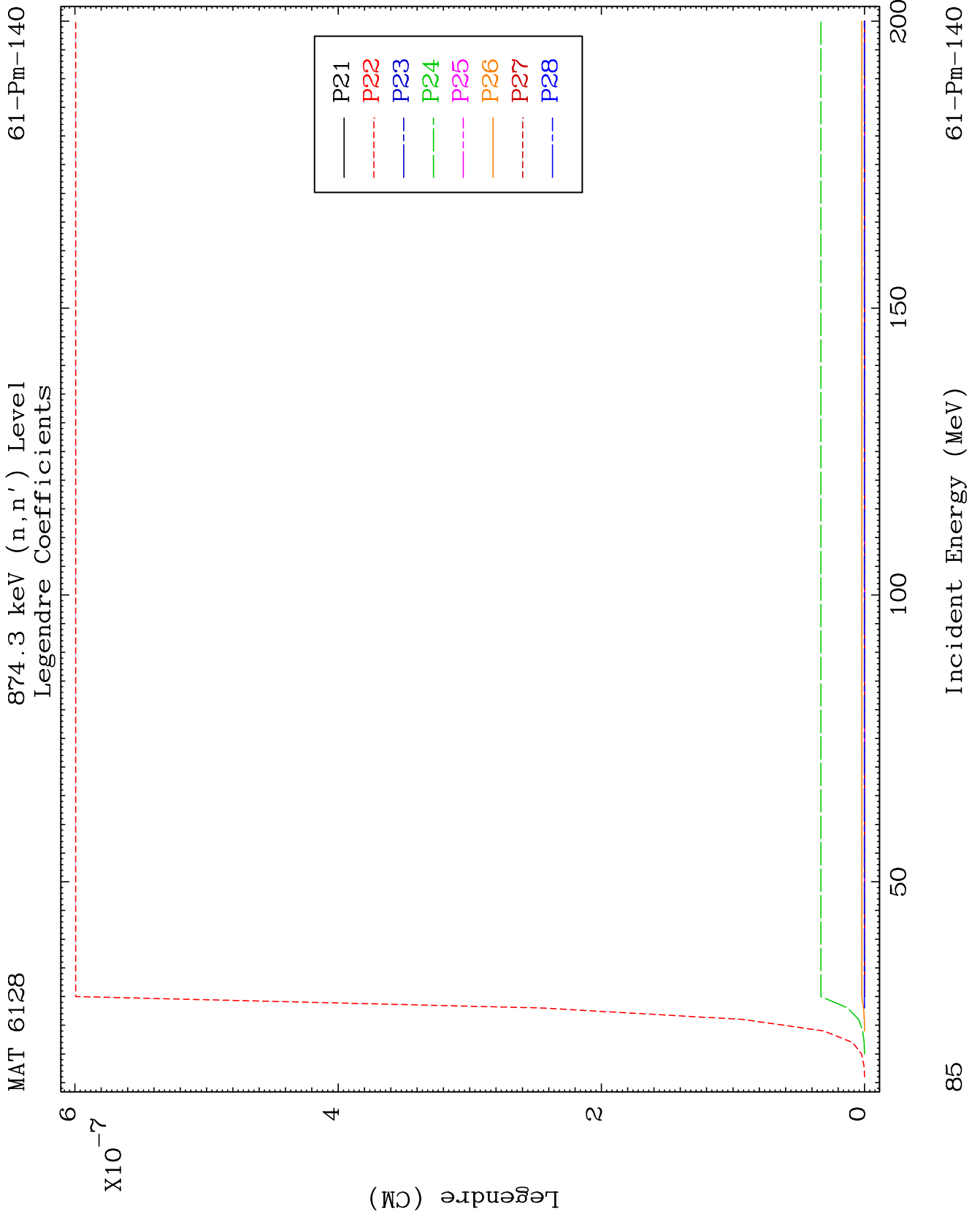
MAT 6128

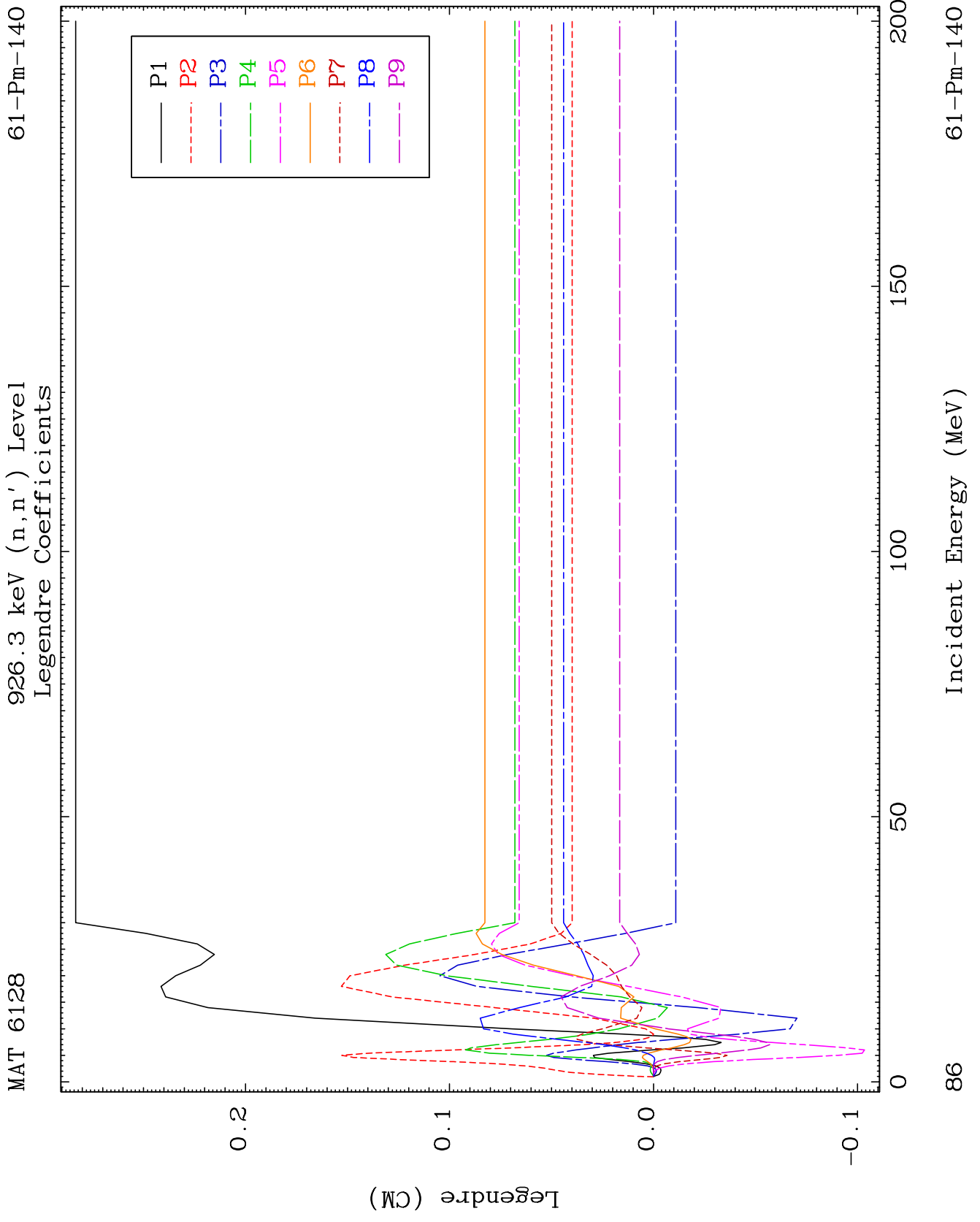
855.8 keV (n,n') Level
Legendre Coefficients

61-Pm-140





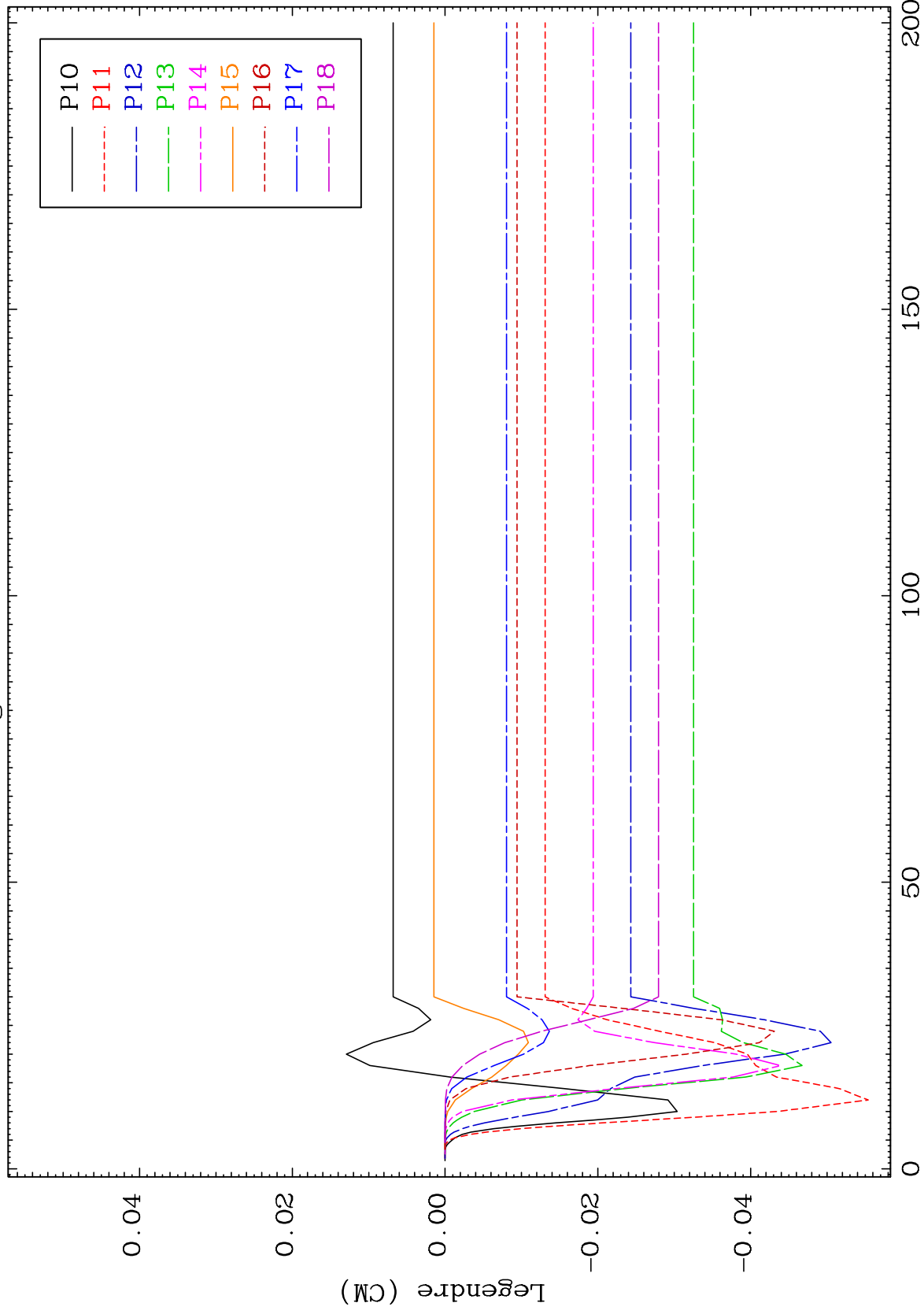




MAT 6128

926.3 keV (n,n') Level
Legendre Coefficients

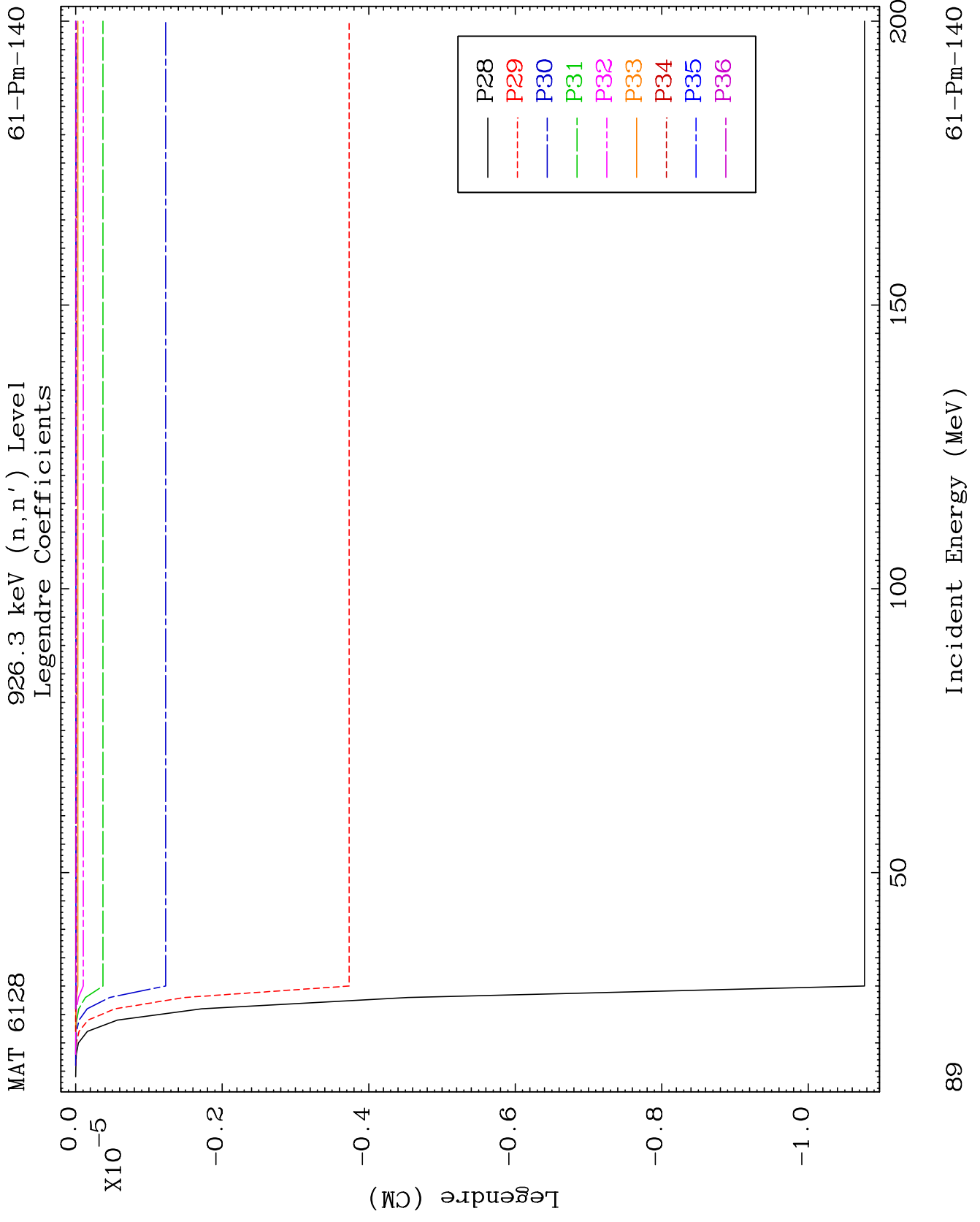
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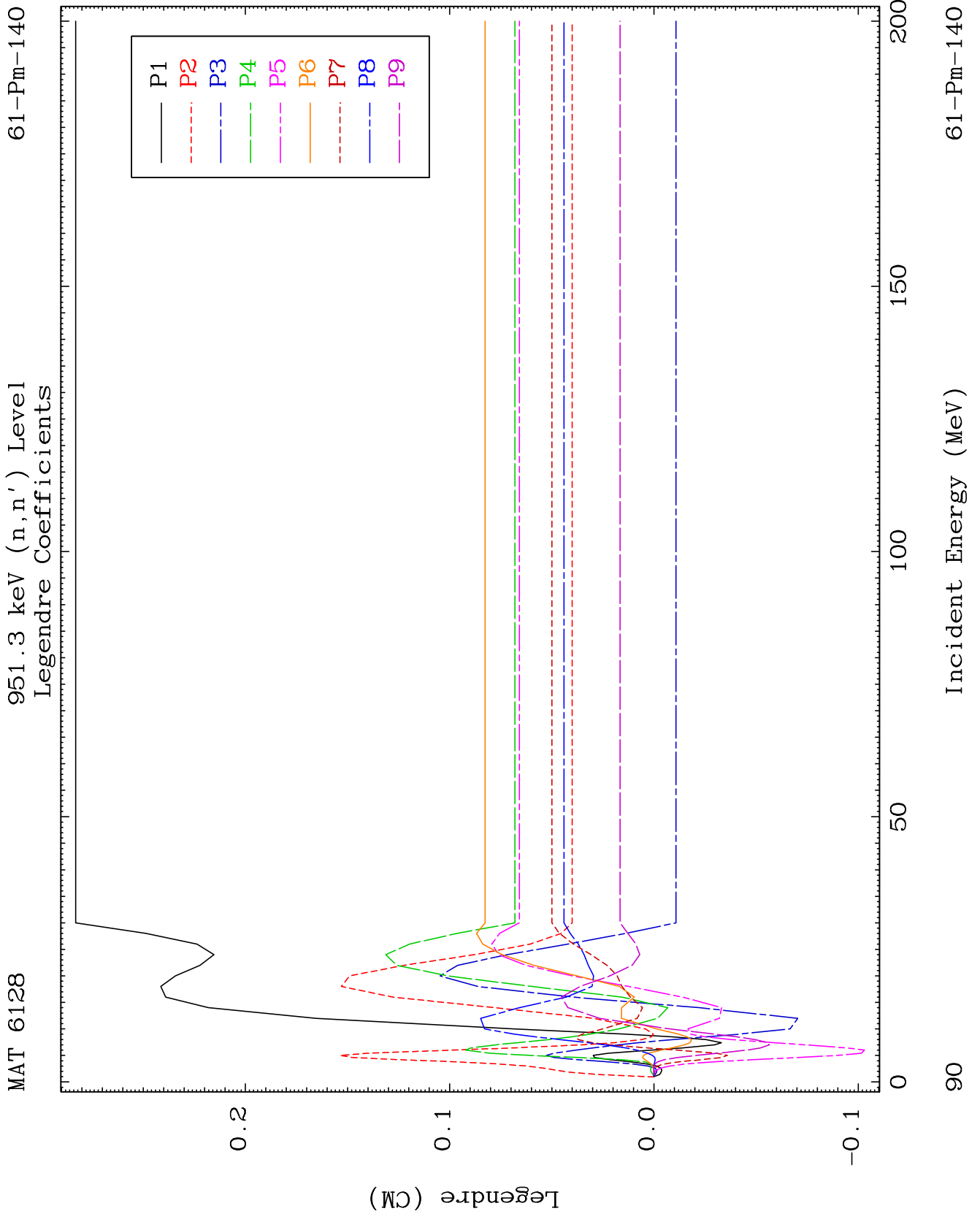


87

Incident Energy (MeV)

61-Pm-140

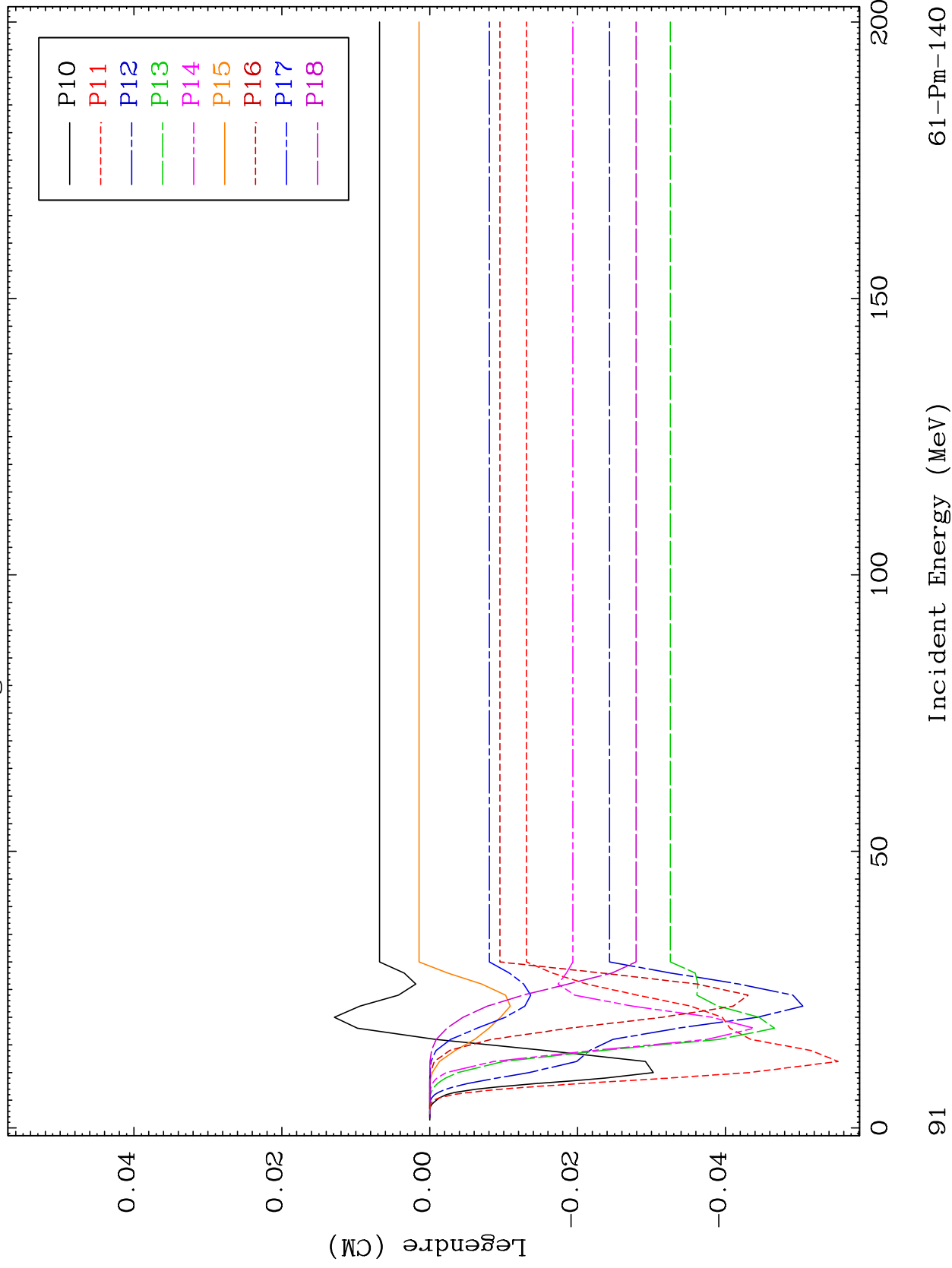




MAT 6128

951.3 keV (n,n') Level
Legendre Coefficients

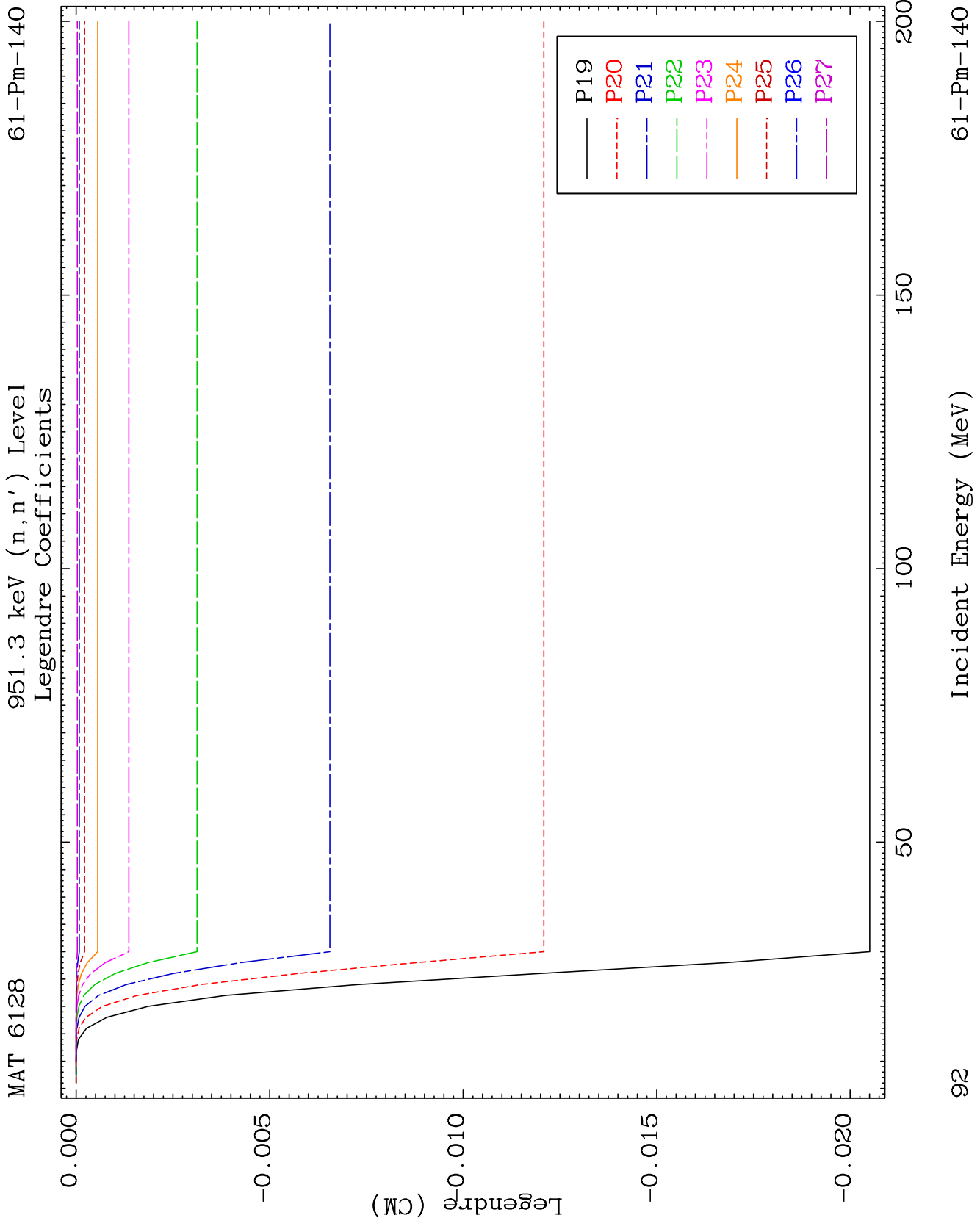
61-Pm-140

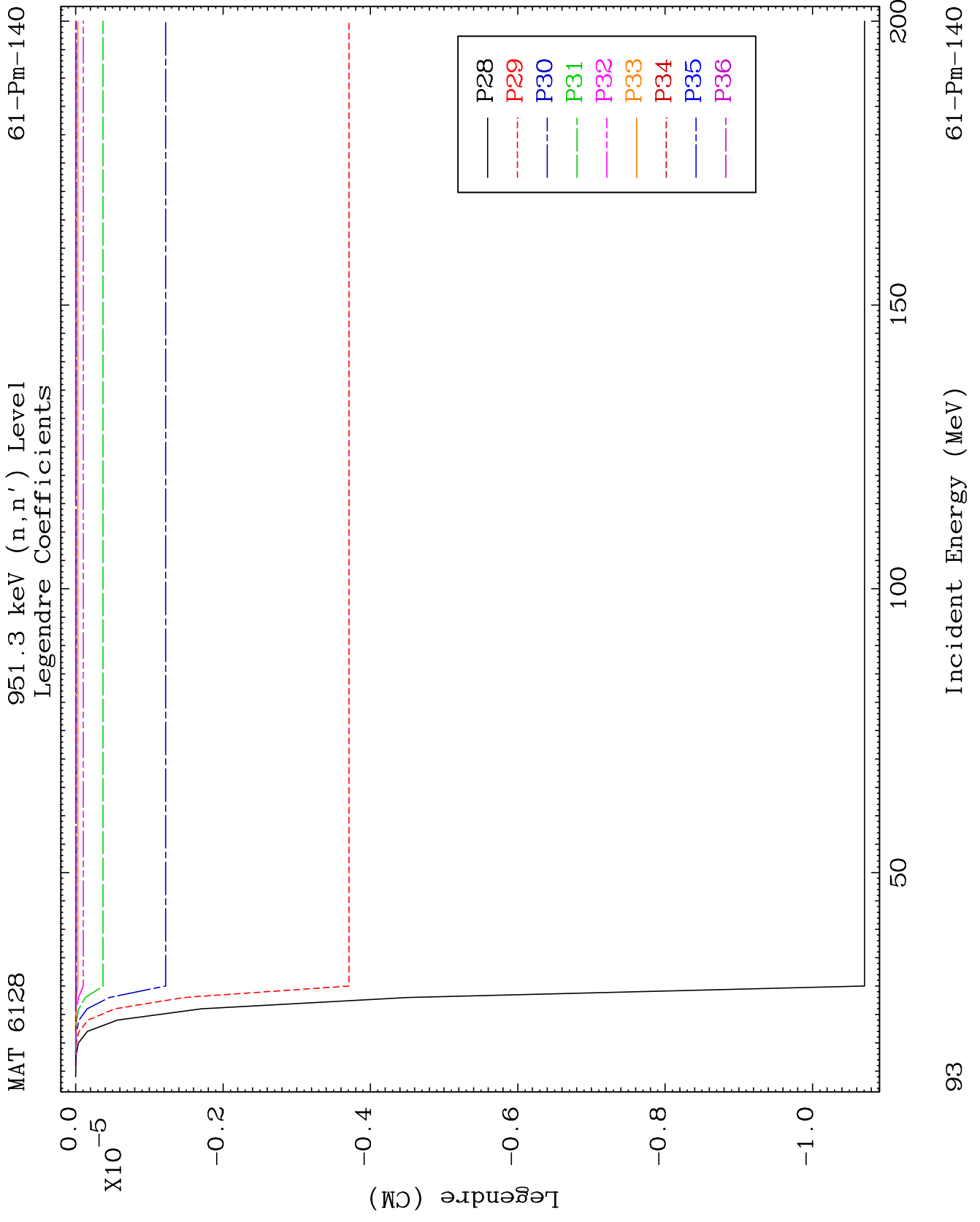


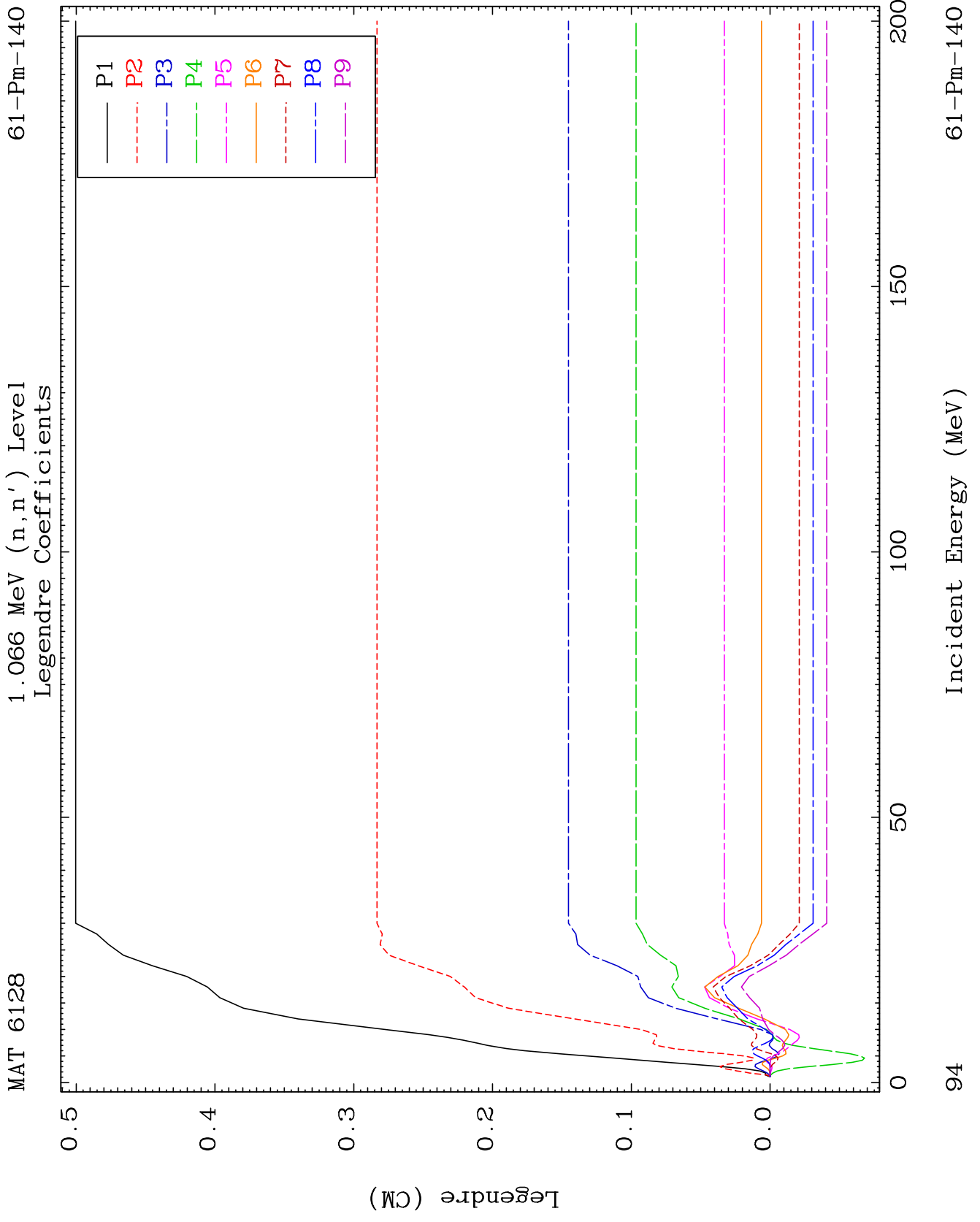
91

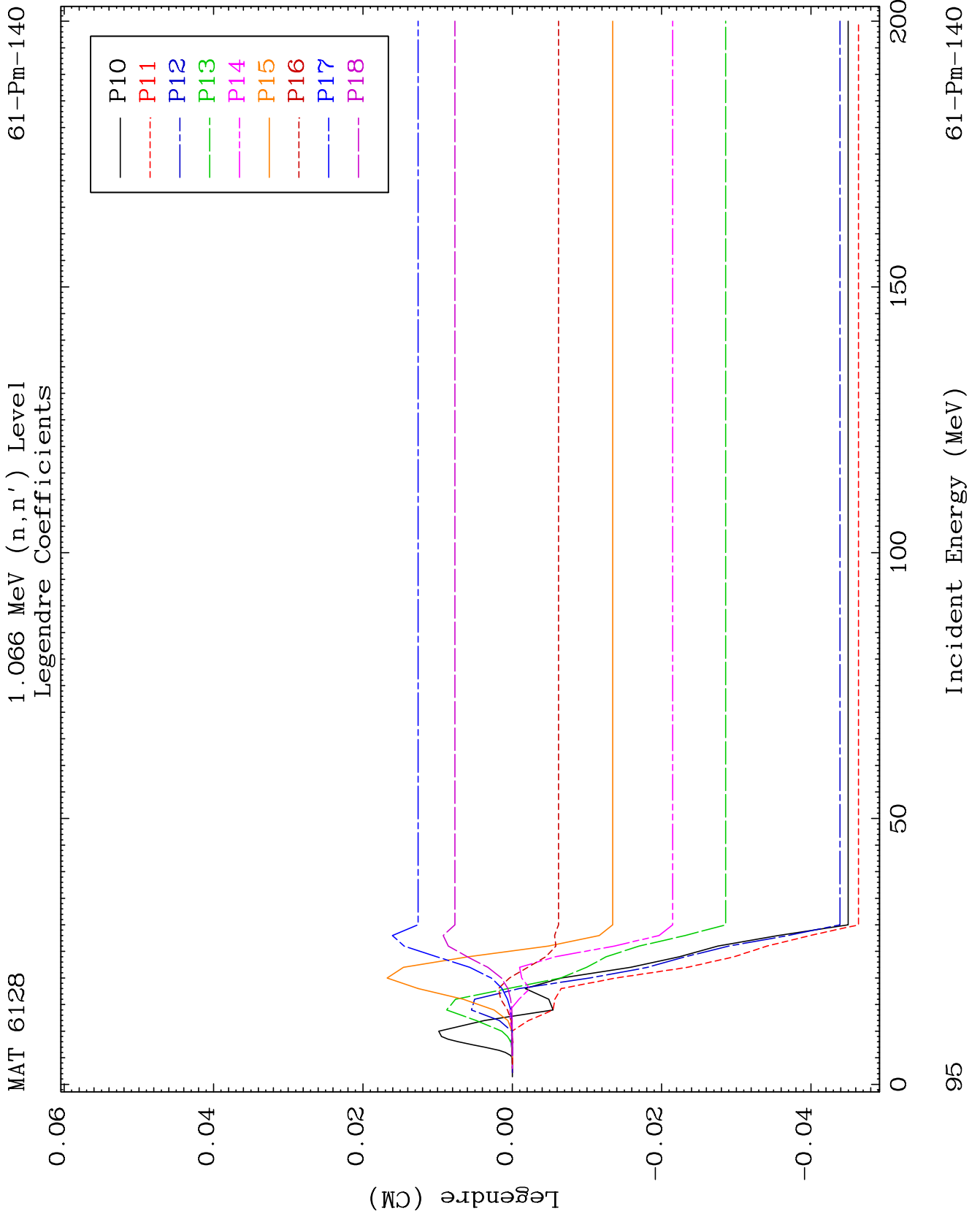
Incident Energy (MeV)

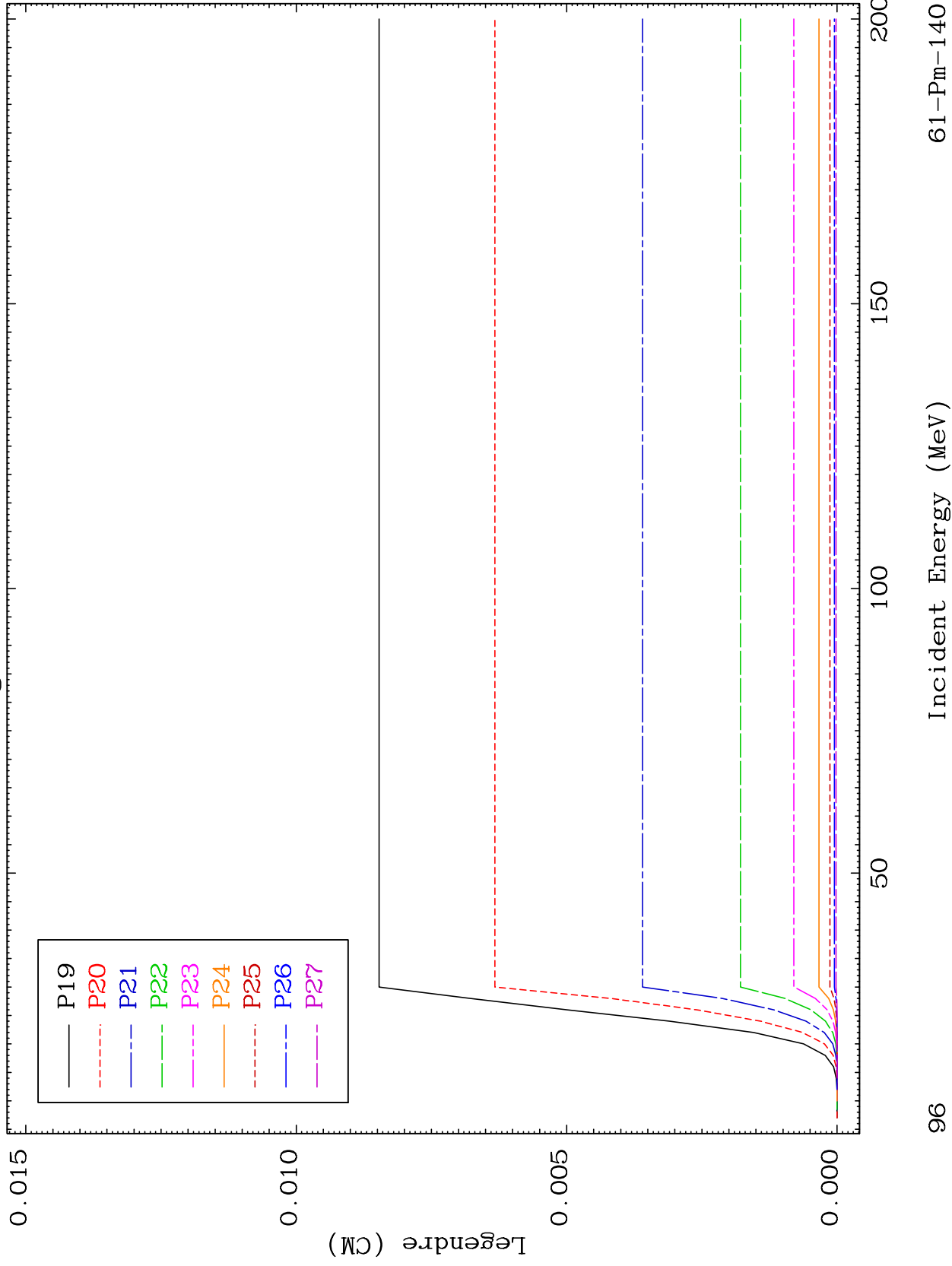
61-Pm-140

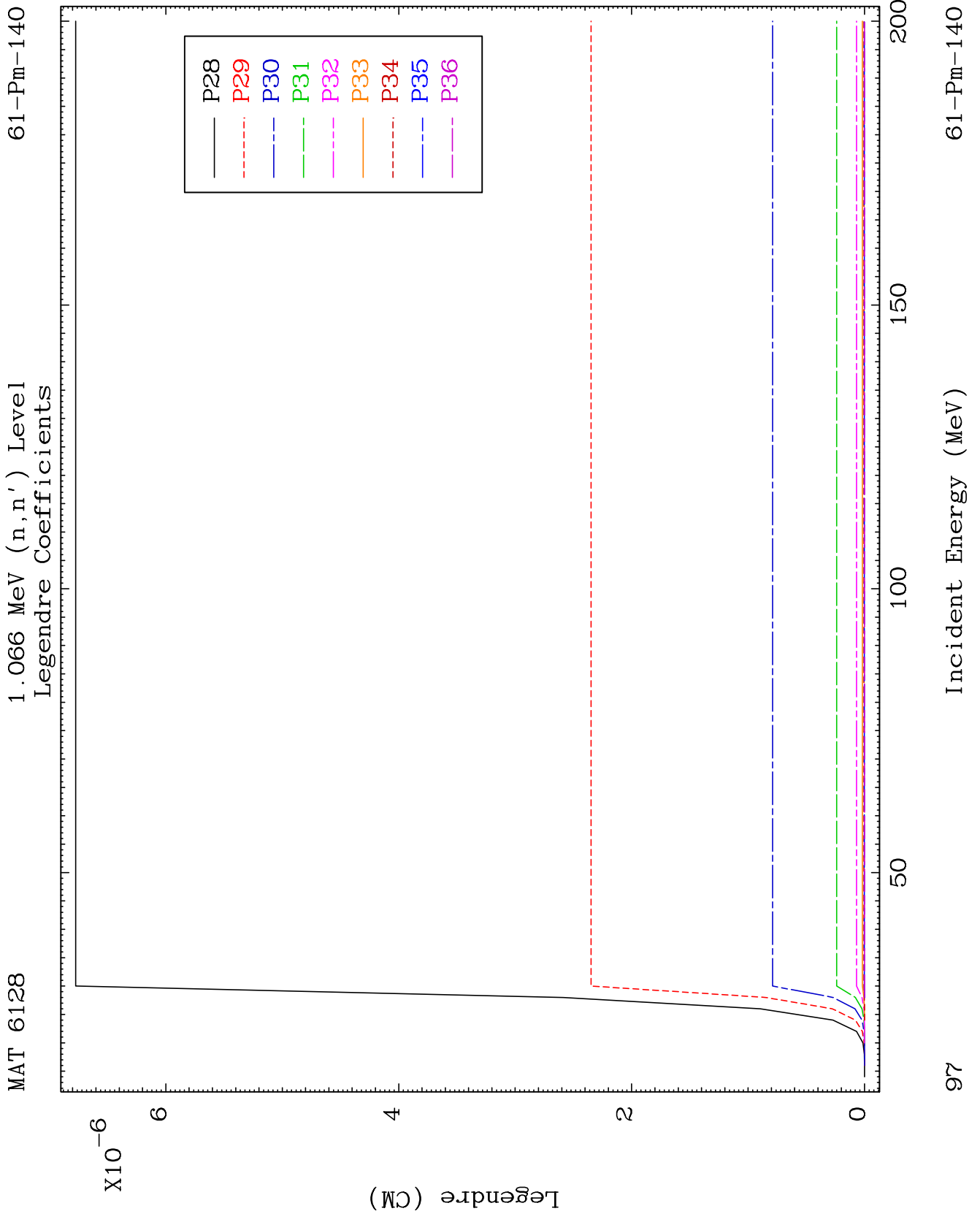


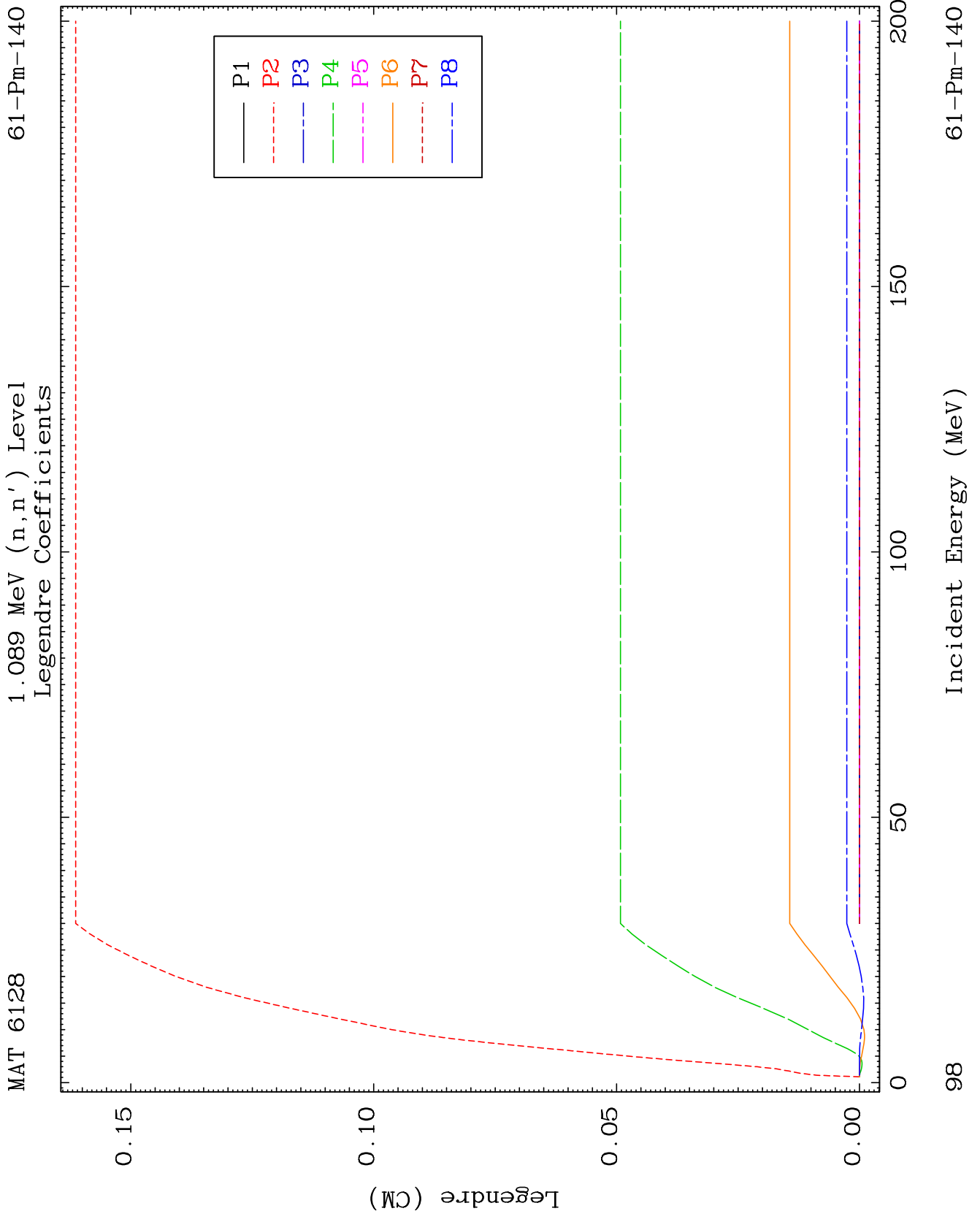


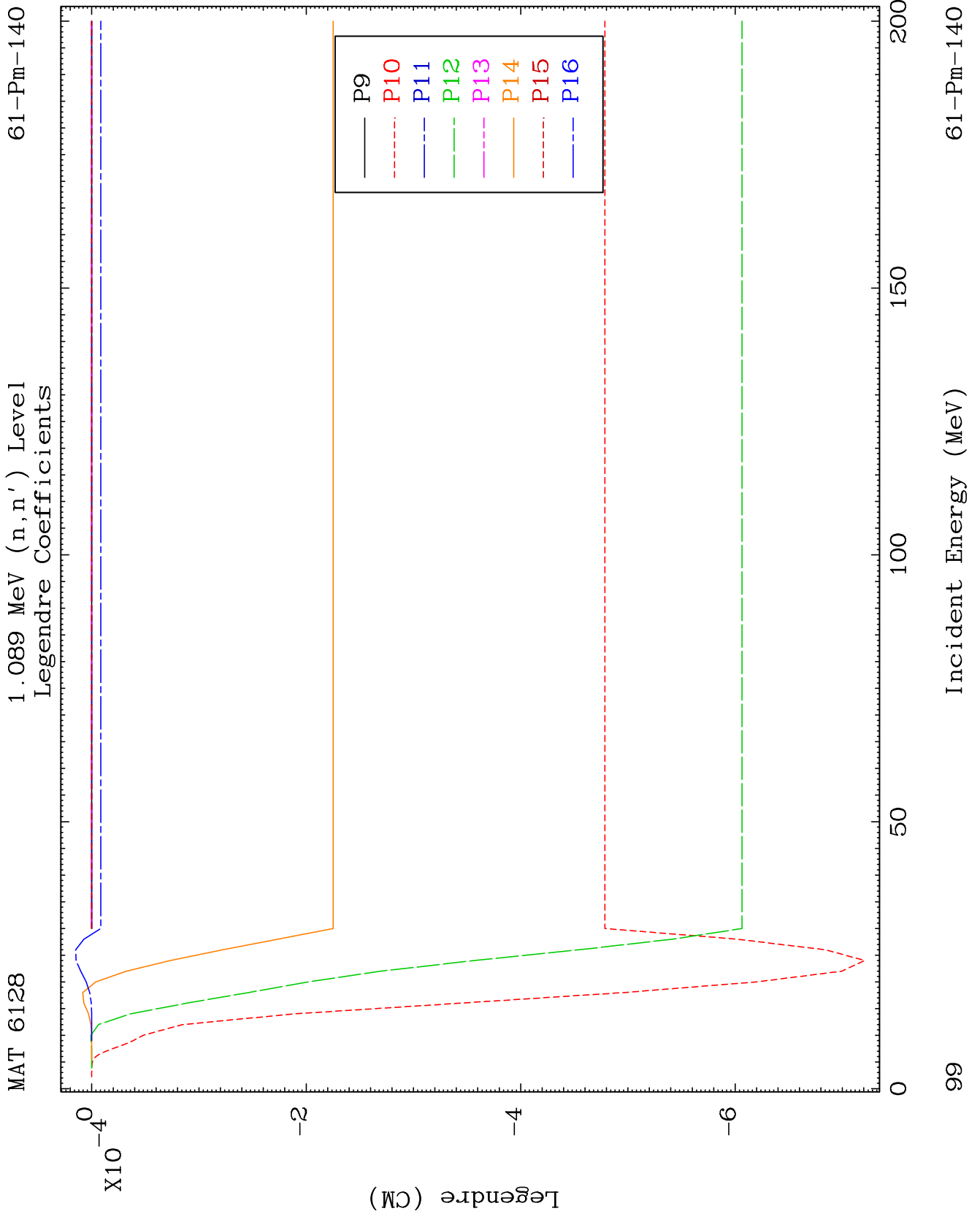


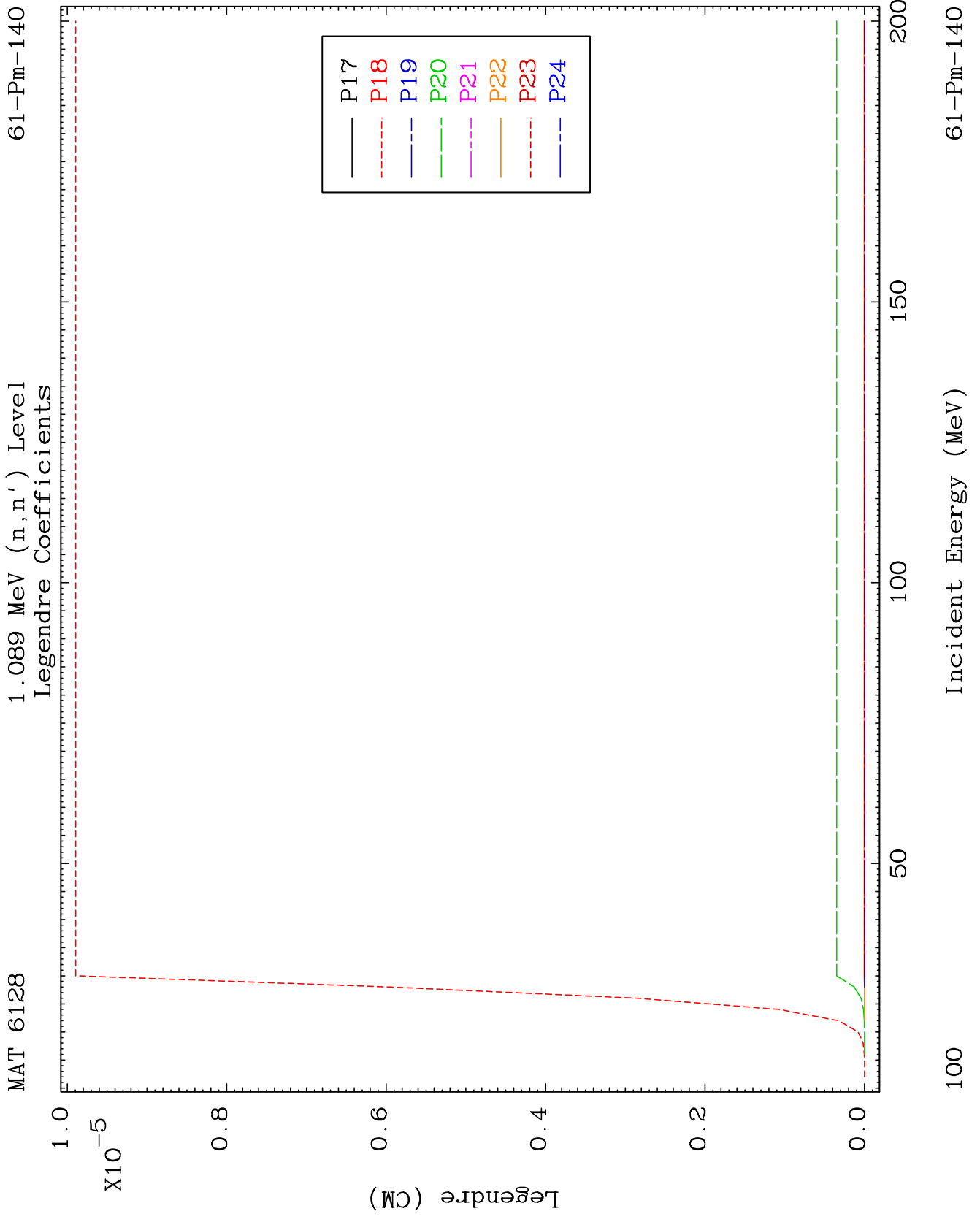


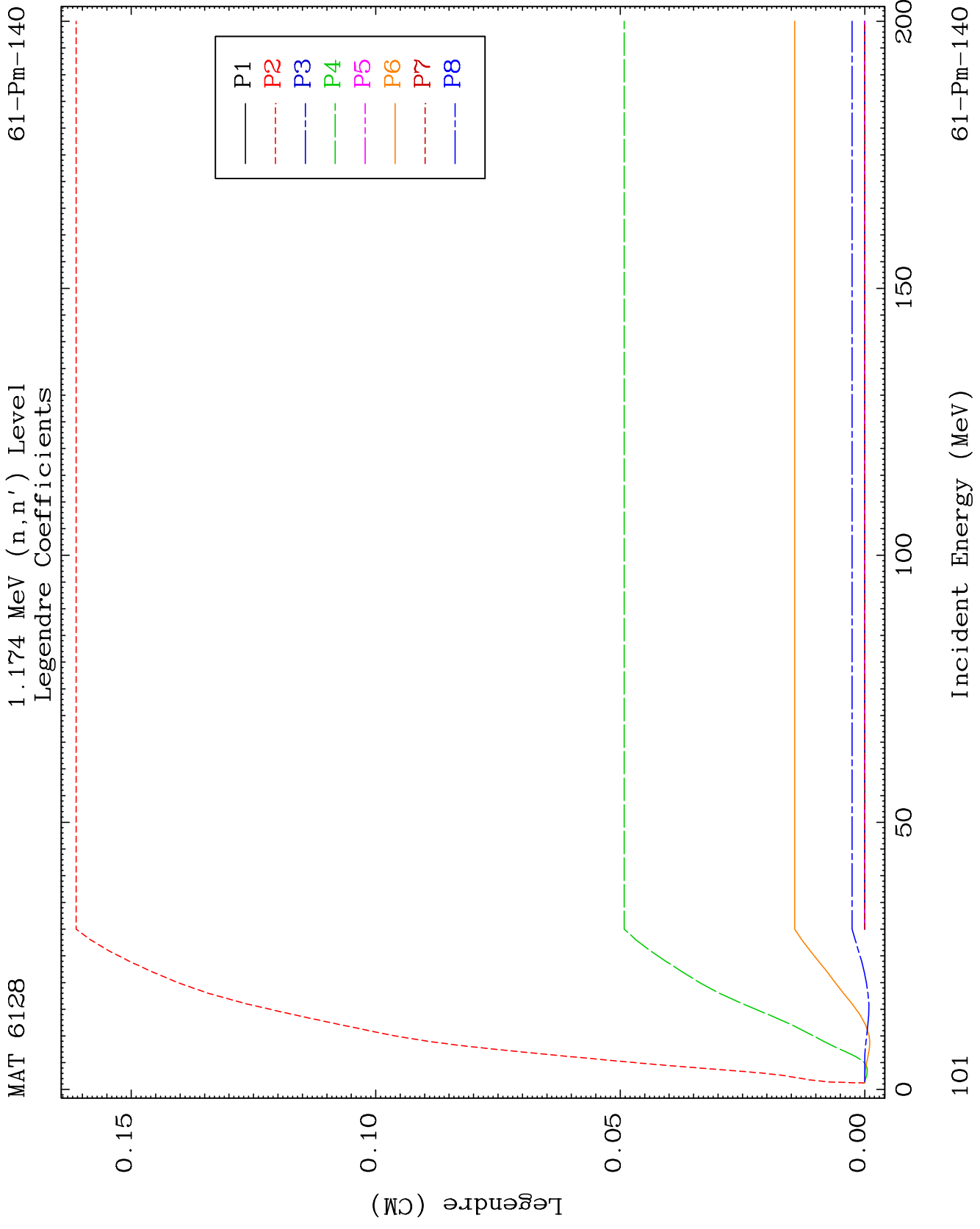


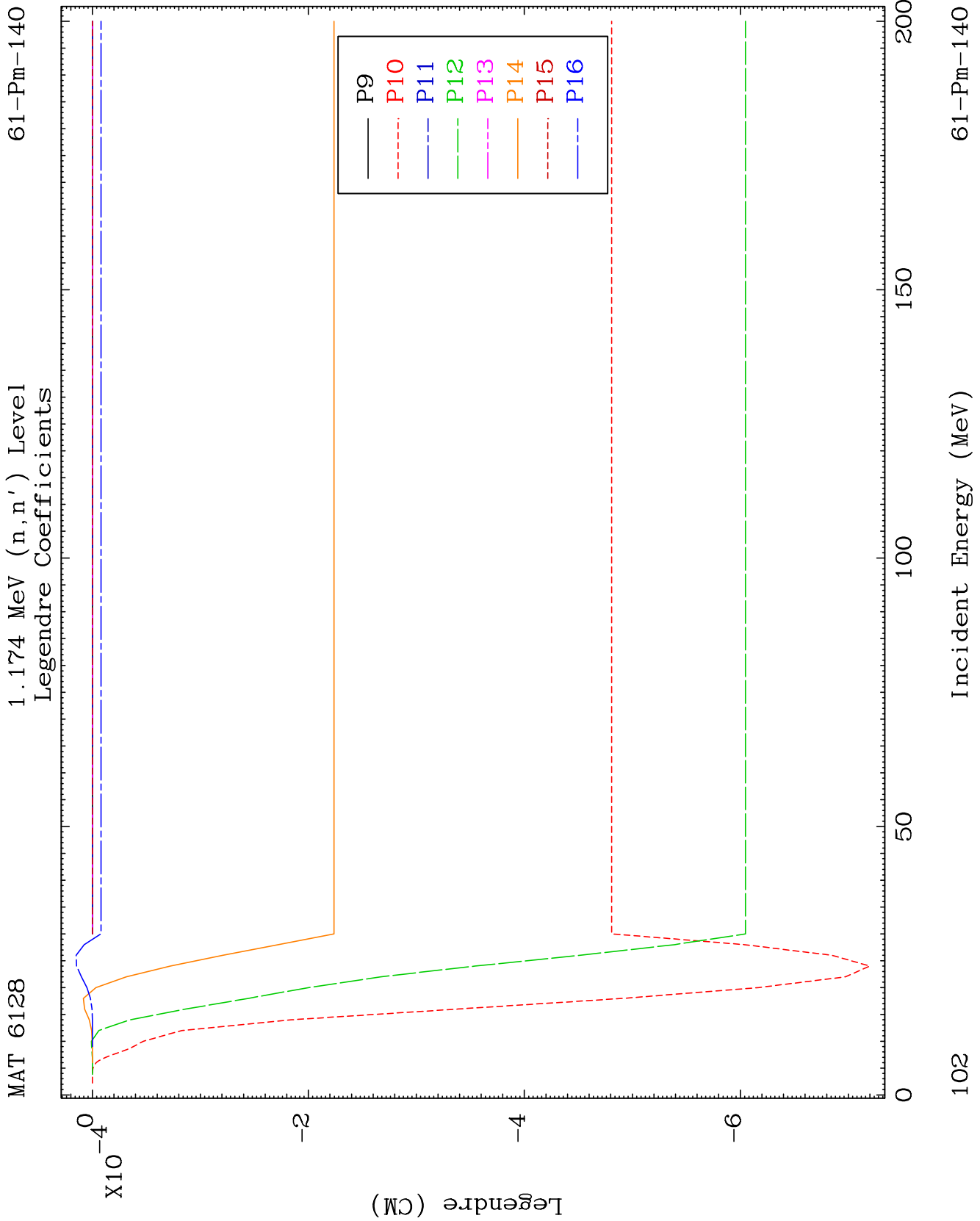








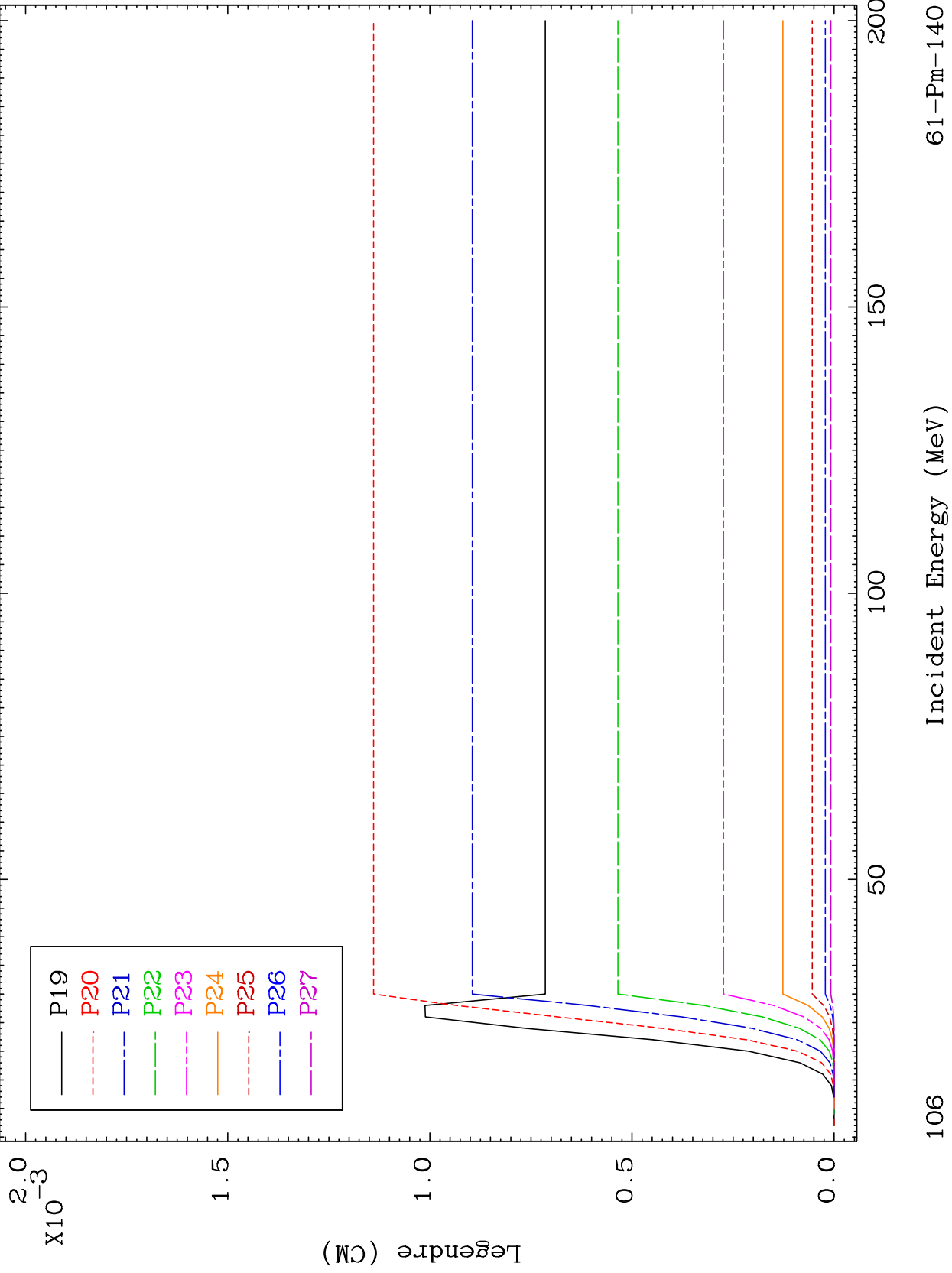




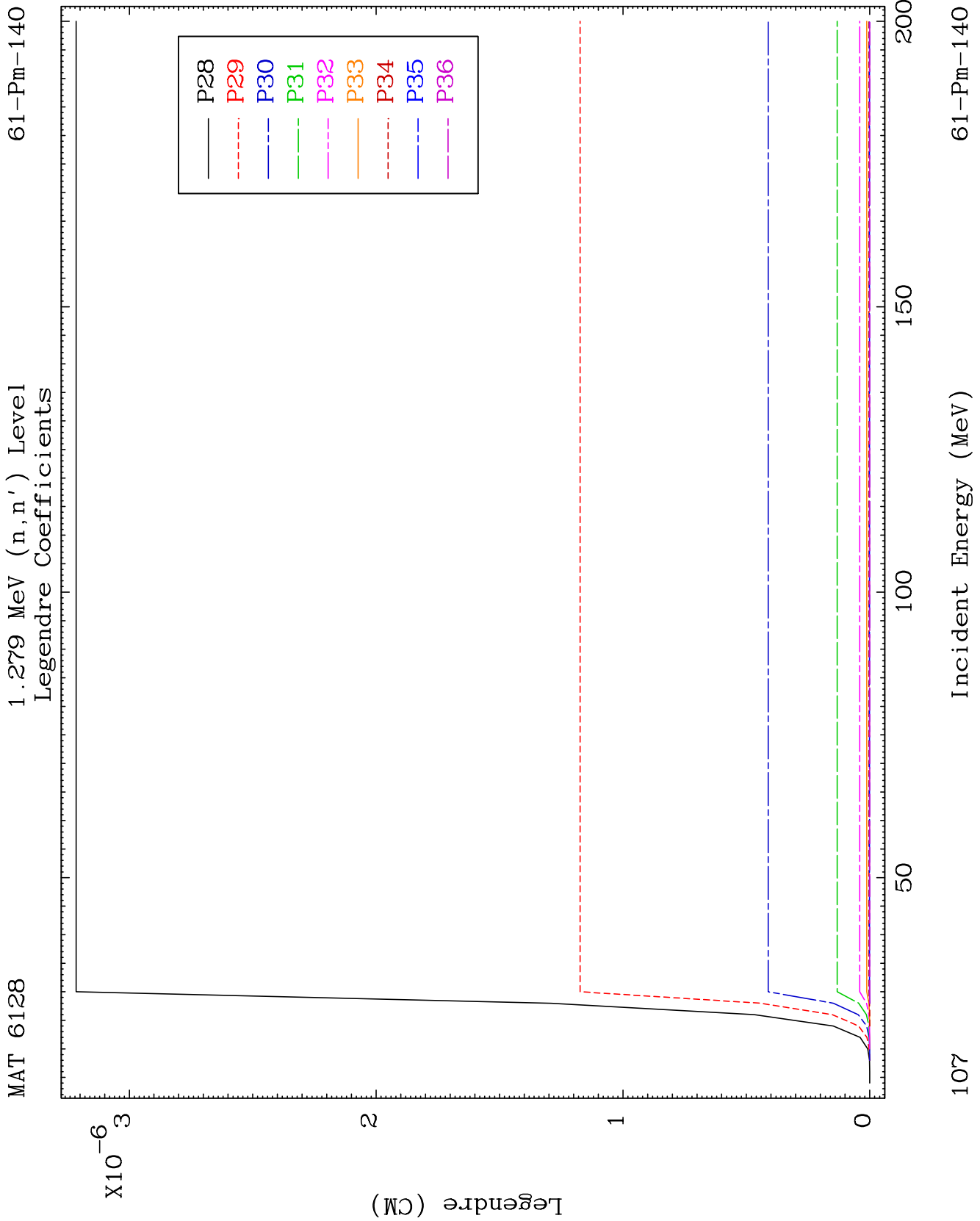
MAT 6128

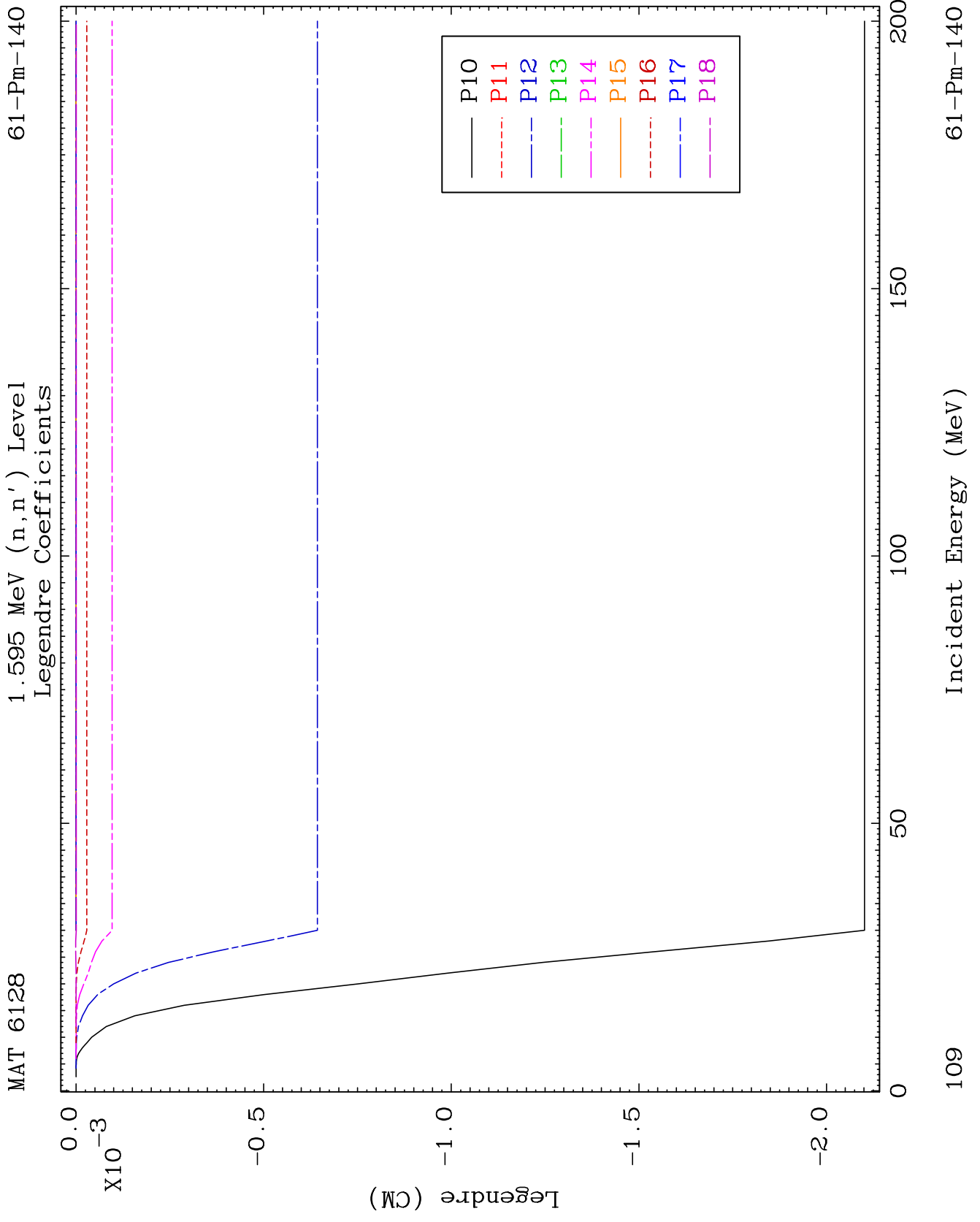
1.279 MeV (n, n') Level
Legendre Coefficients

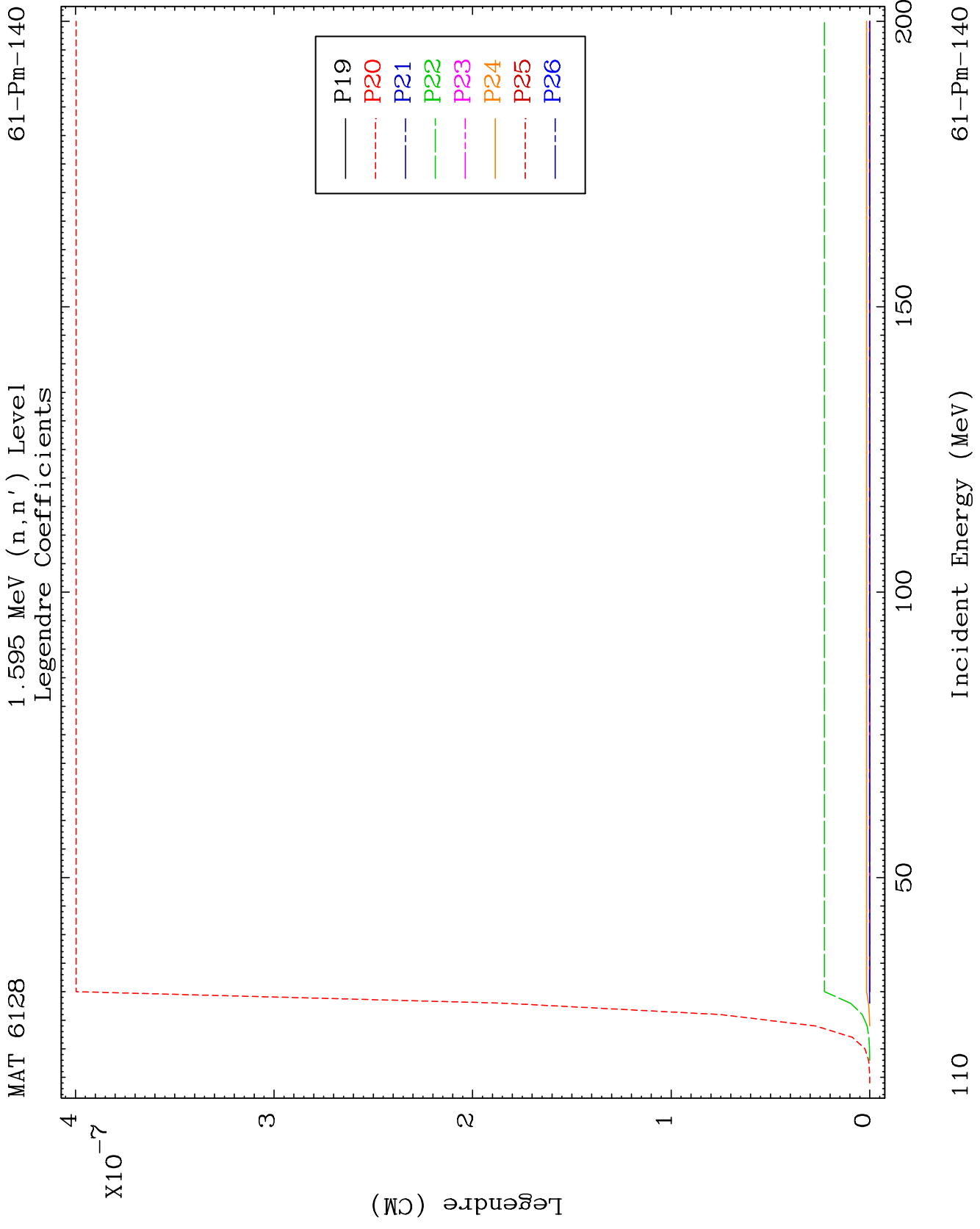
61-Pm-140

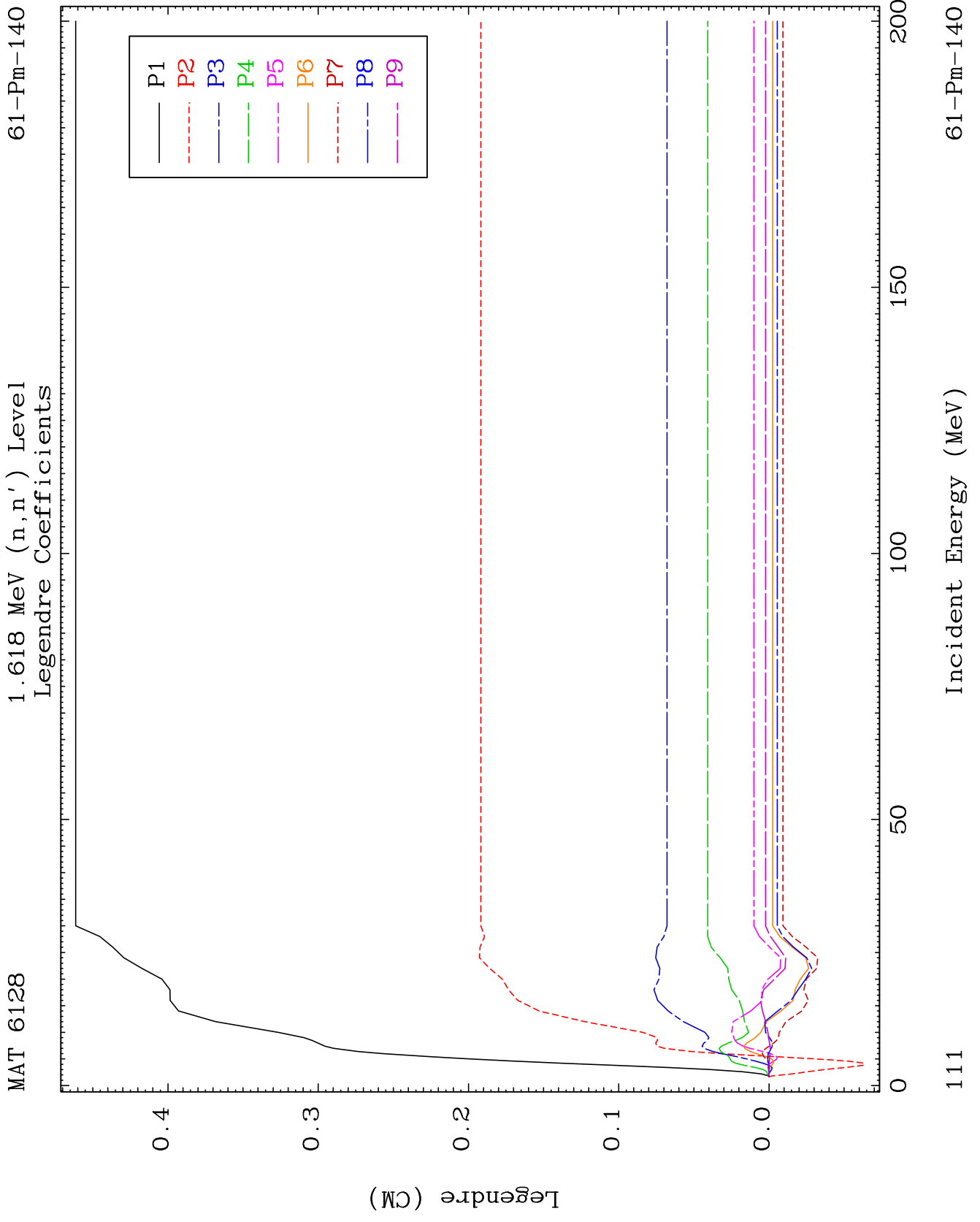


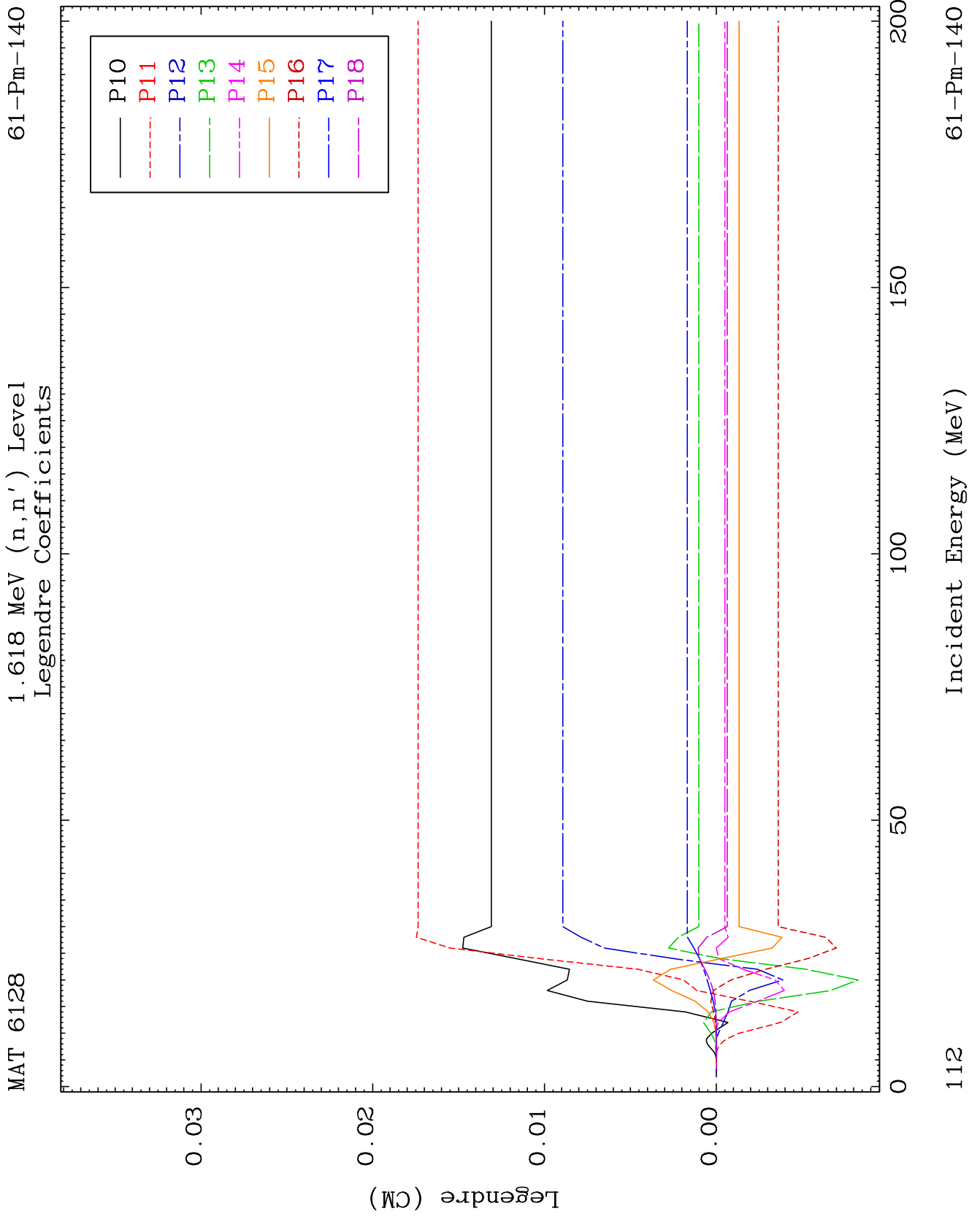
106

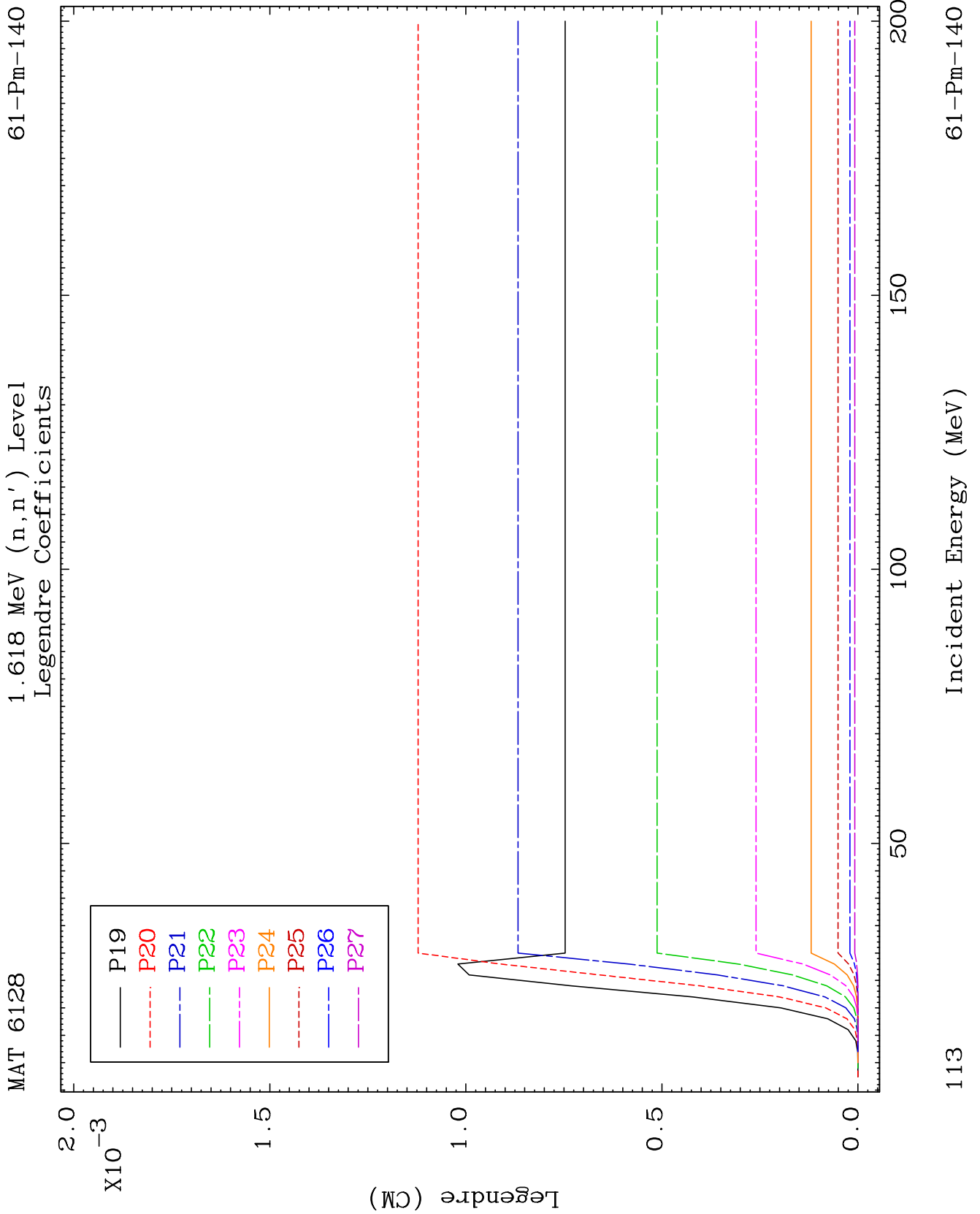


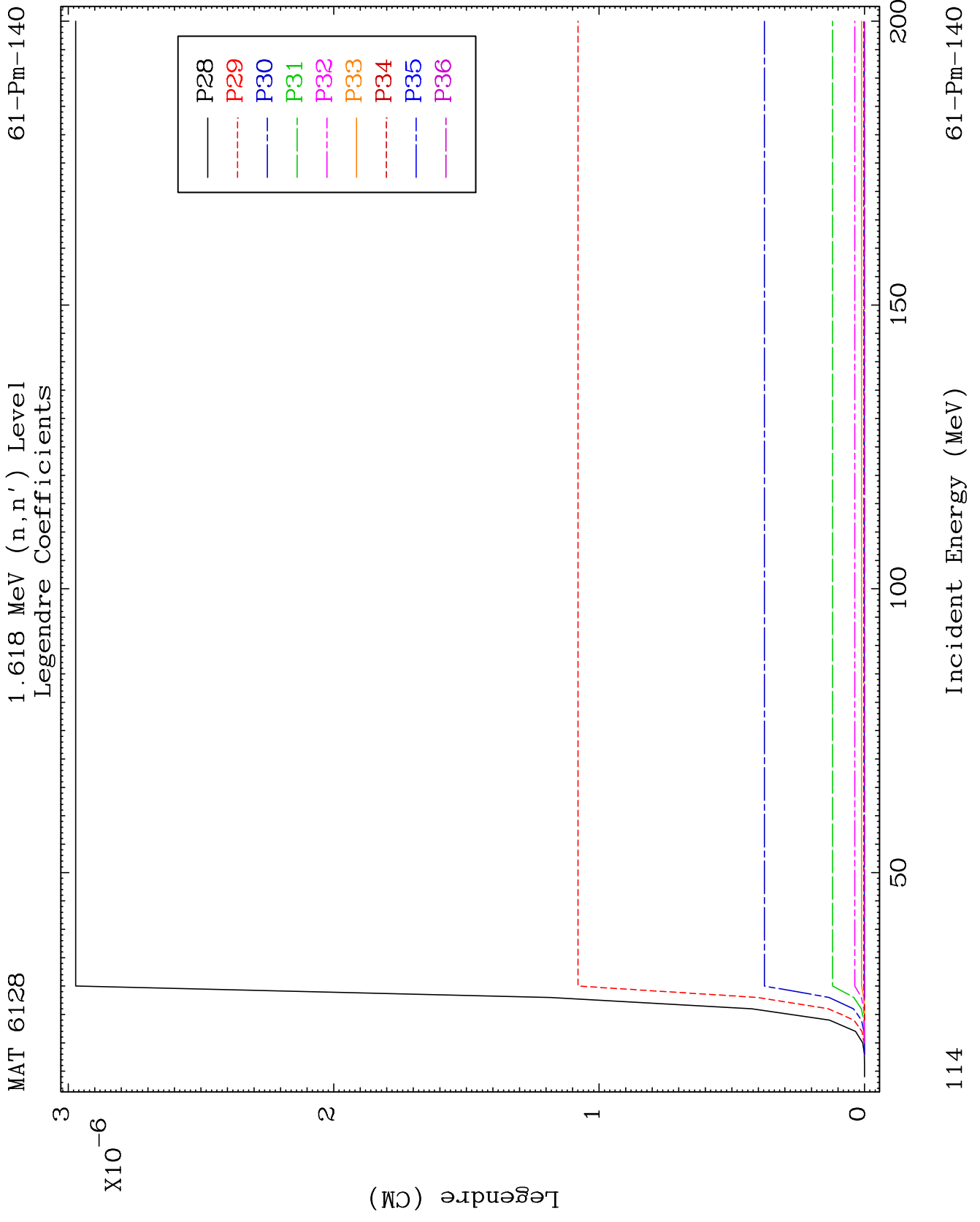


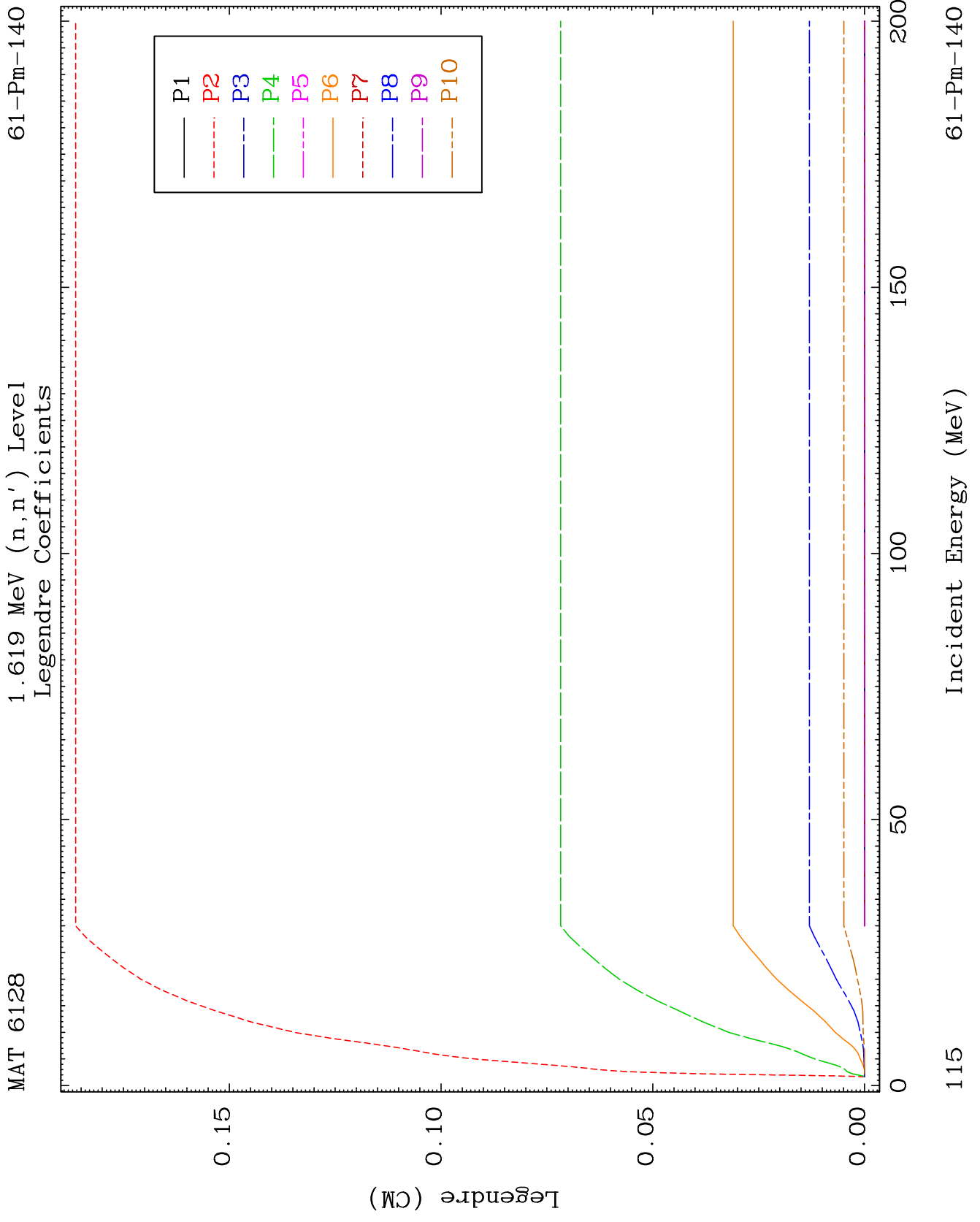








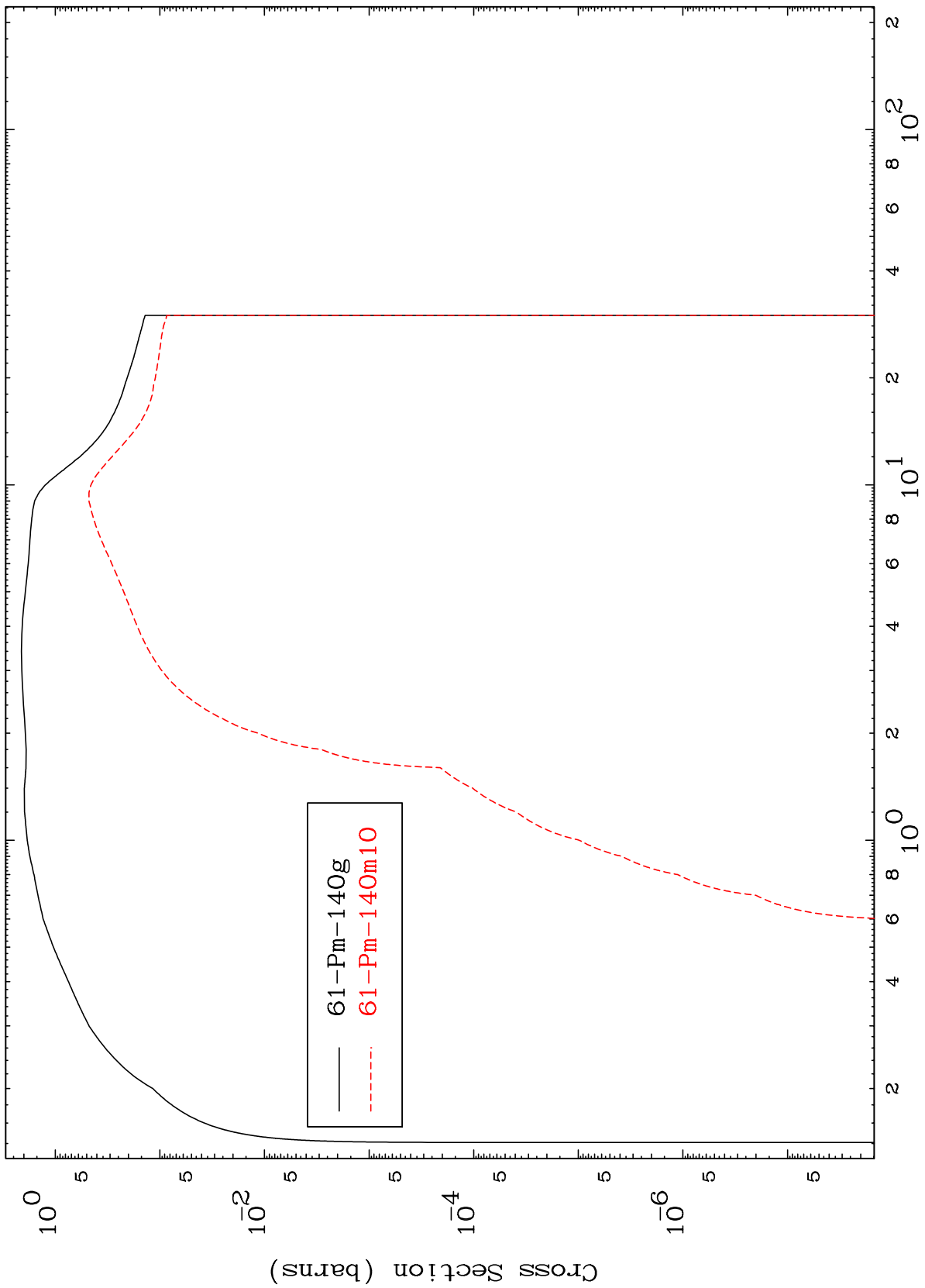




MAT 6128

61-Pm-140

Inelastic
Radionuclide Production Cross Section



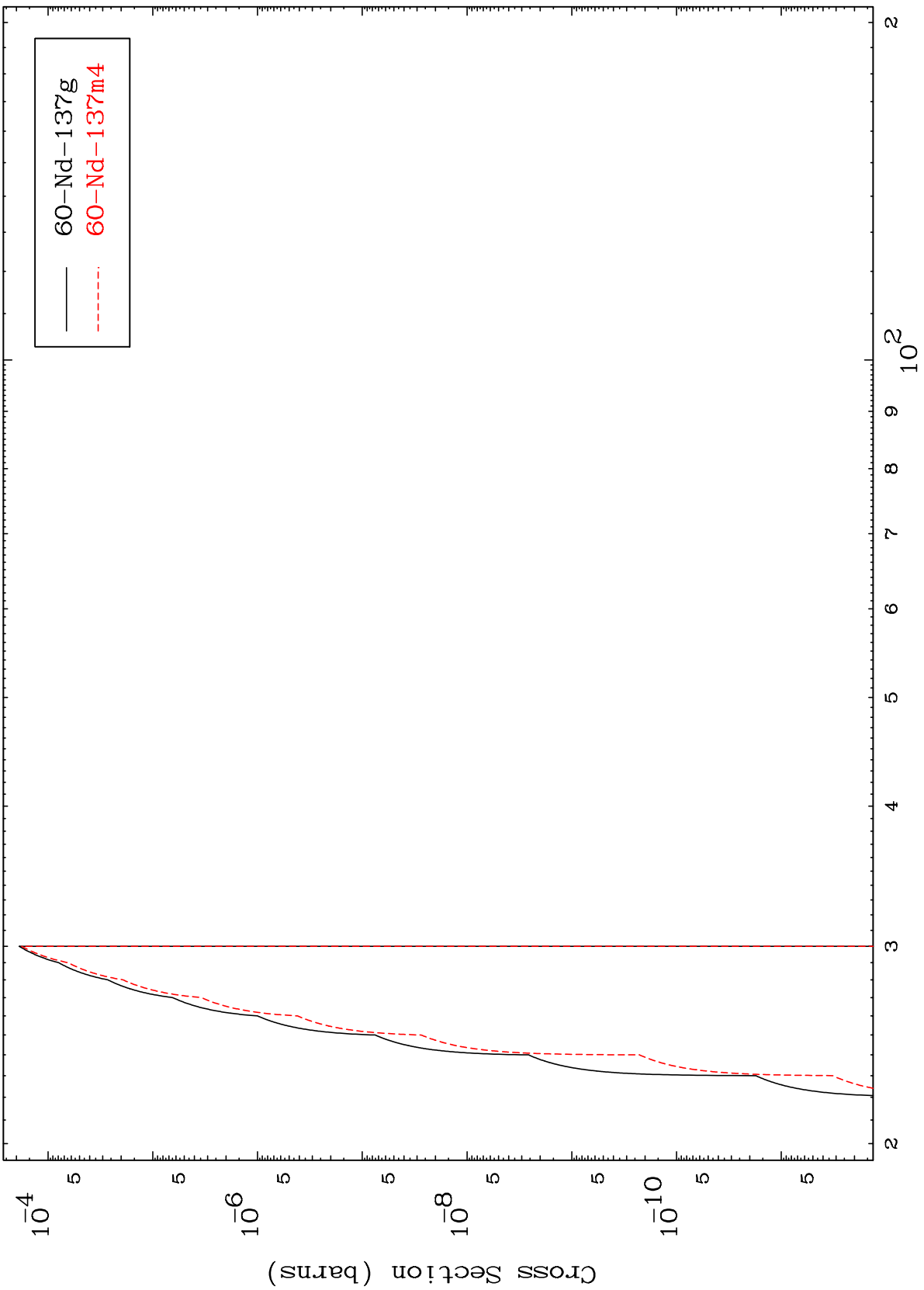
— 61-Pm-140g
- - - 61-Pm-140m10

MAT 6128

(n,2n) d

61-Pm-140

Radionuclide Production Cross Section



119

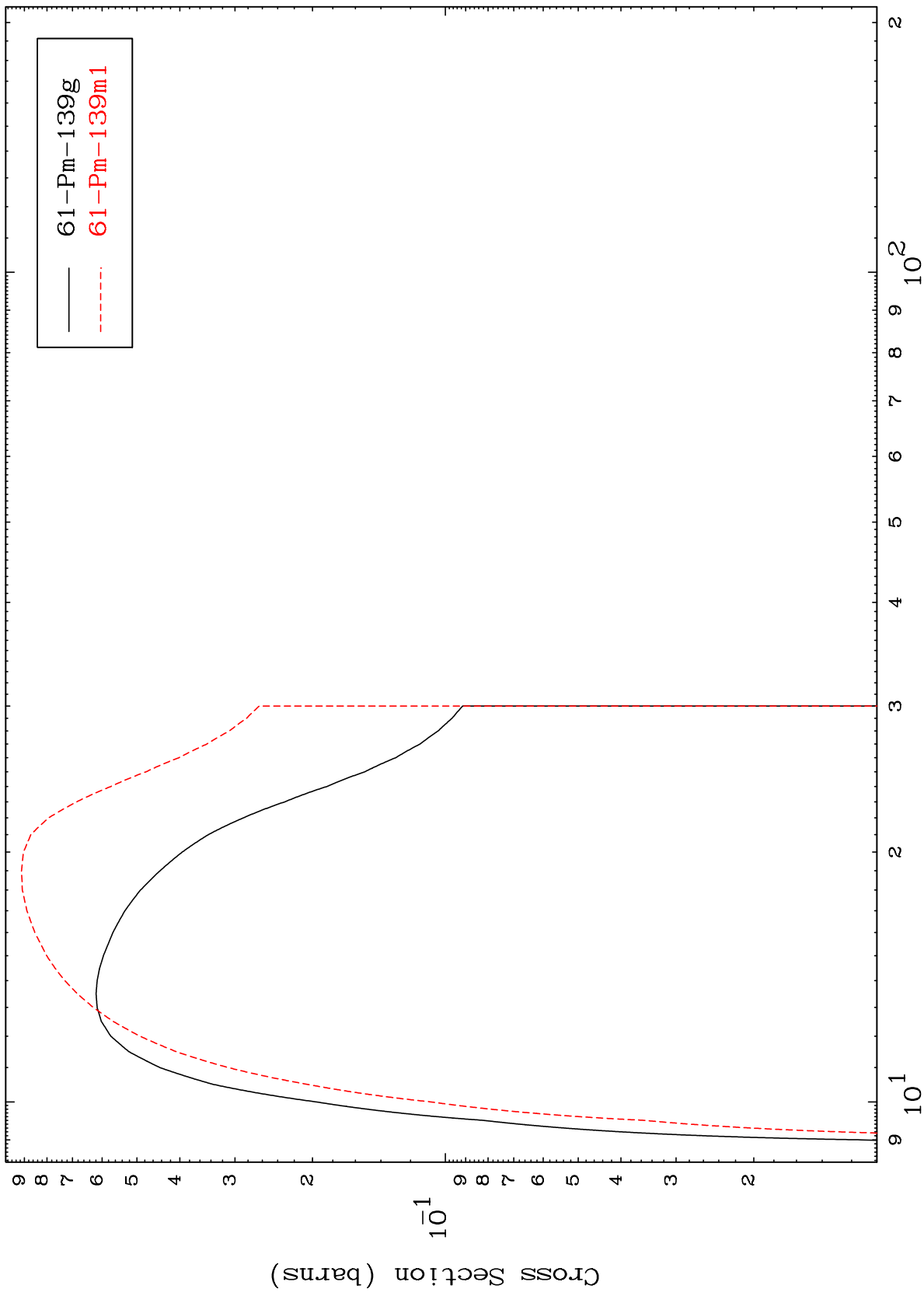
Incident Energy (MeV)

61-Pm-140

MAT 6128

61-Pm-140

(n,2n)
Radionuclide Production Cross Section



61-Pm-140

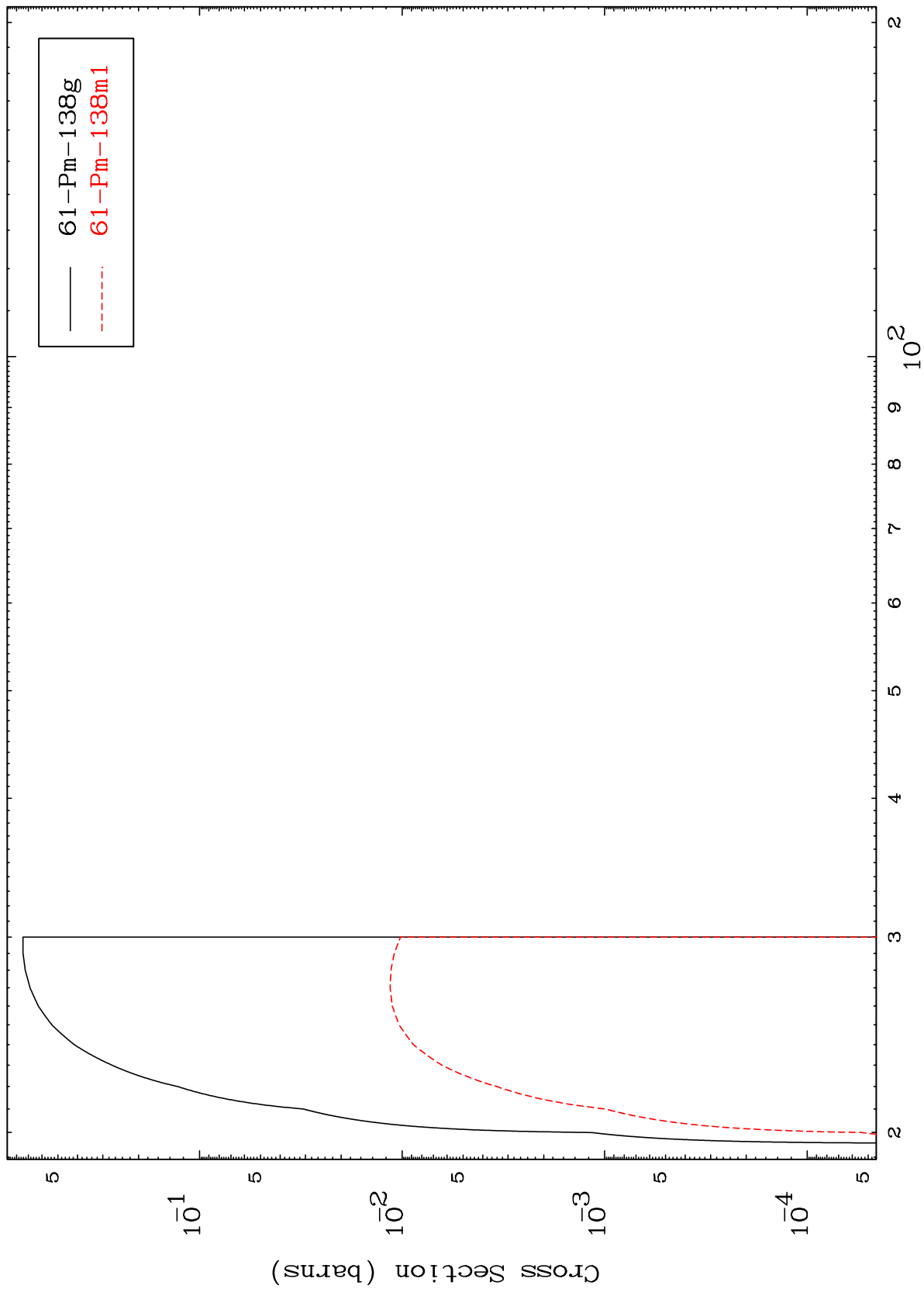
Incident Energy (MeV)

120

MAT 6128

61-Pm-140

(n,3n)
Radionuclide Production Cross Section



61-Pm-140

Incident Energy (MeV)

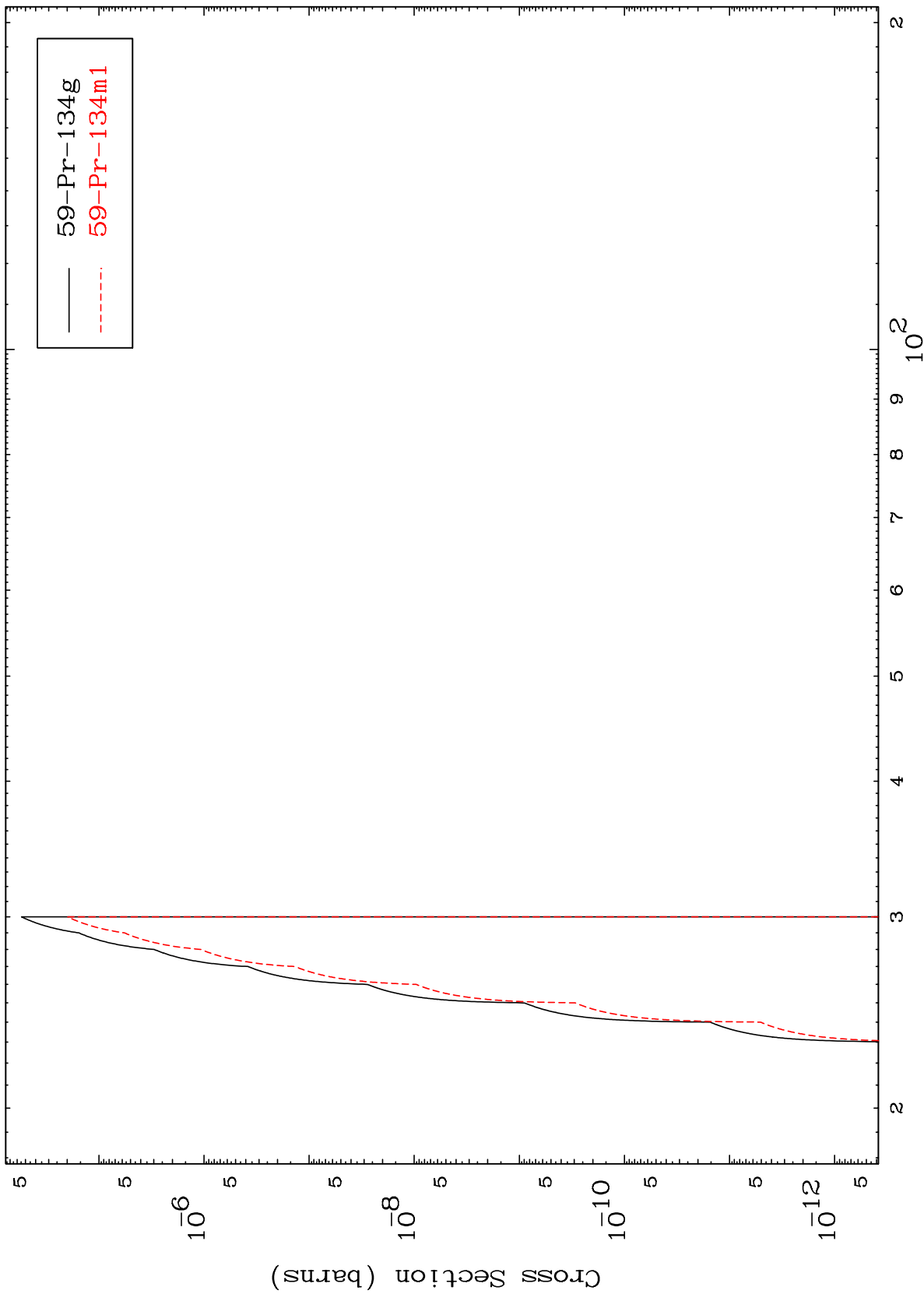
121

MAT 6128

$(n,3n) \alpha$

61-Pm-140

Radionuclide Production Cross Section



122

Incident Energy (MeV)

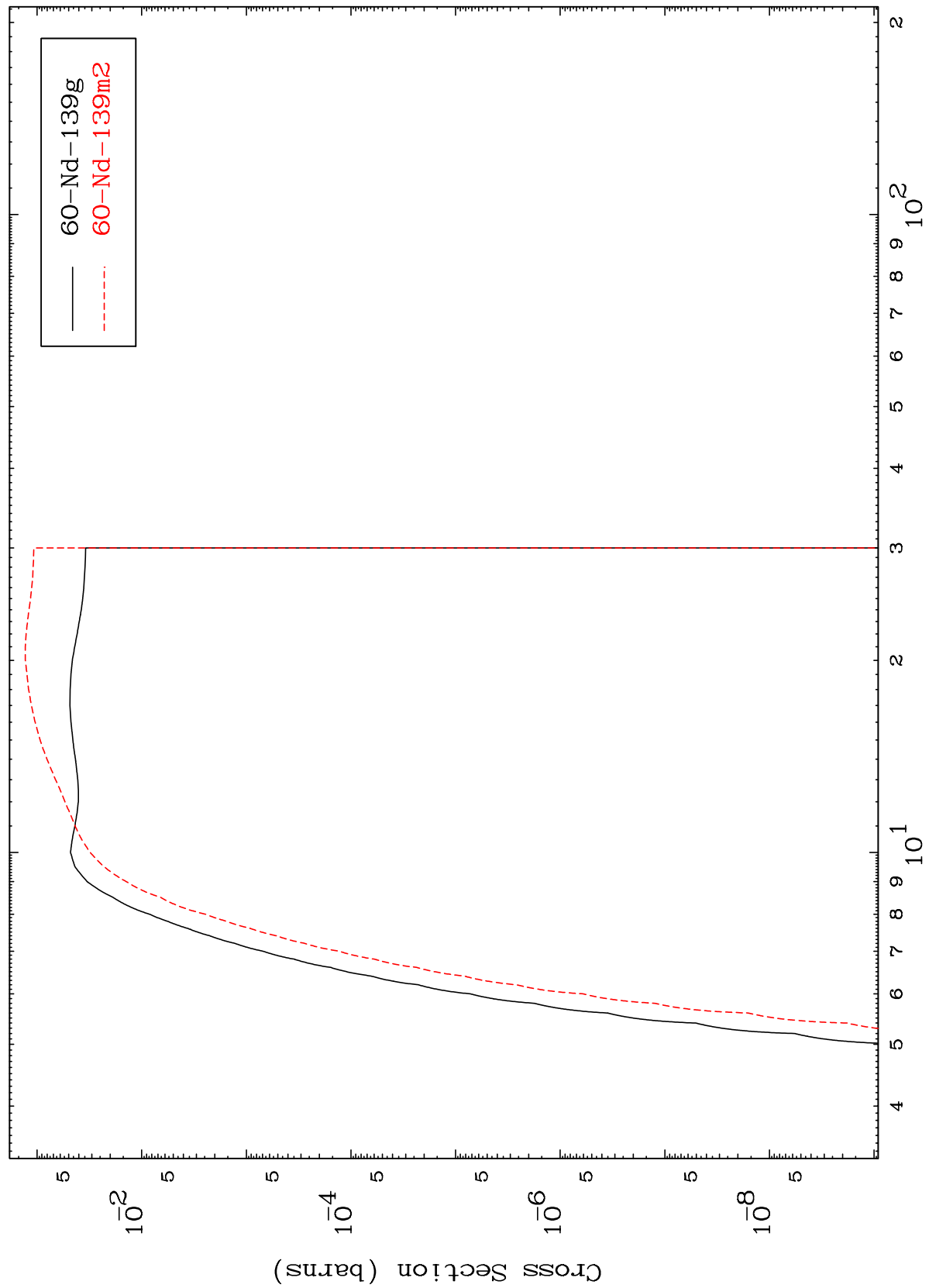
61-Pm-140

MAT 6128

(n,n') p

61-Pm-140

Radionuclide Production Cross Section



123

Incident Energy (MeV)

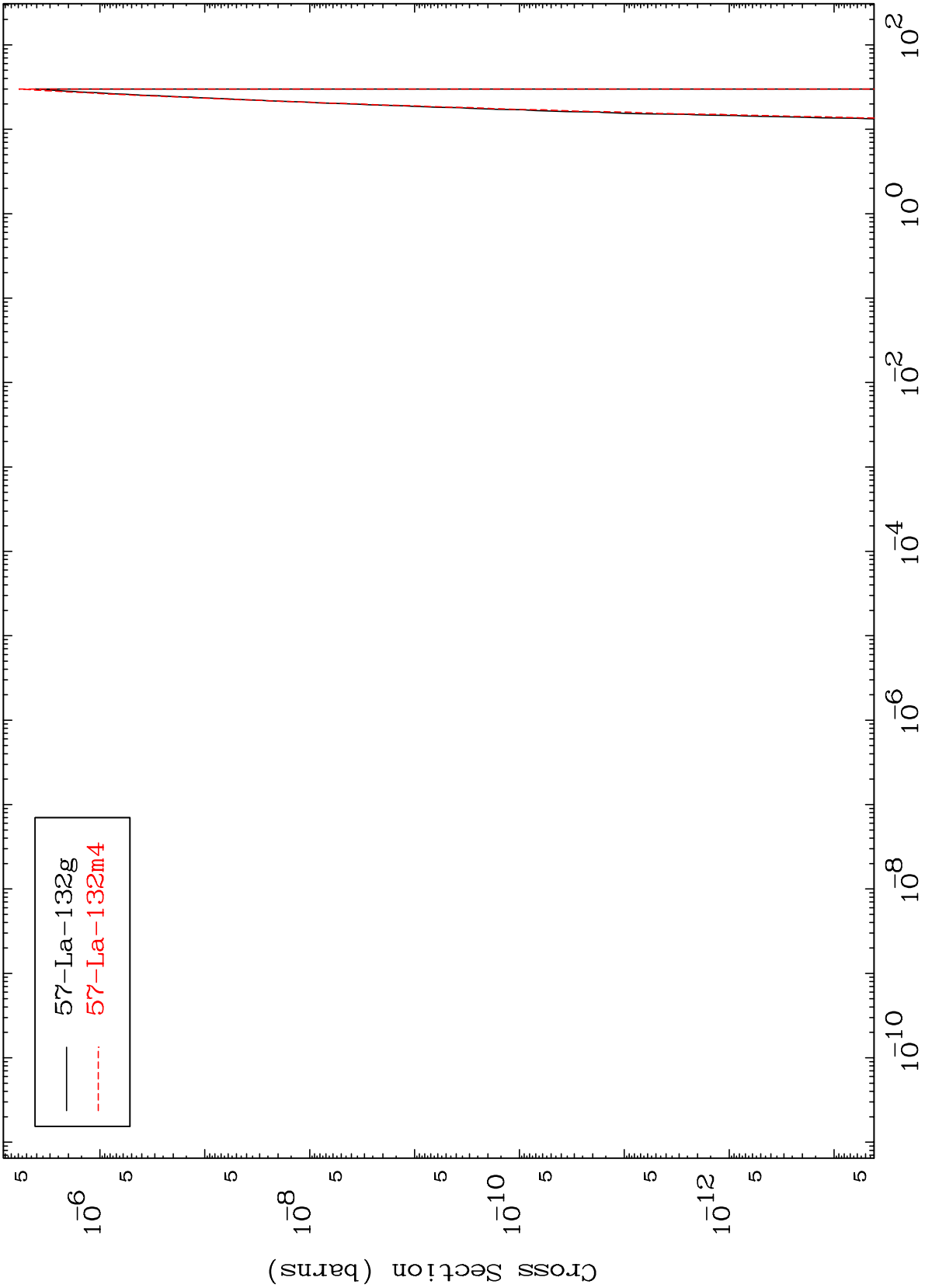
61-Pm-140

MAT 6128

(n,n') 2α

61-Pm-140

Radionuclide Production Cross Section



57-La-132g
57-La-132m4

124

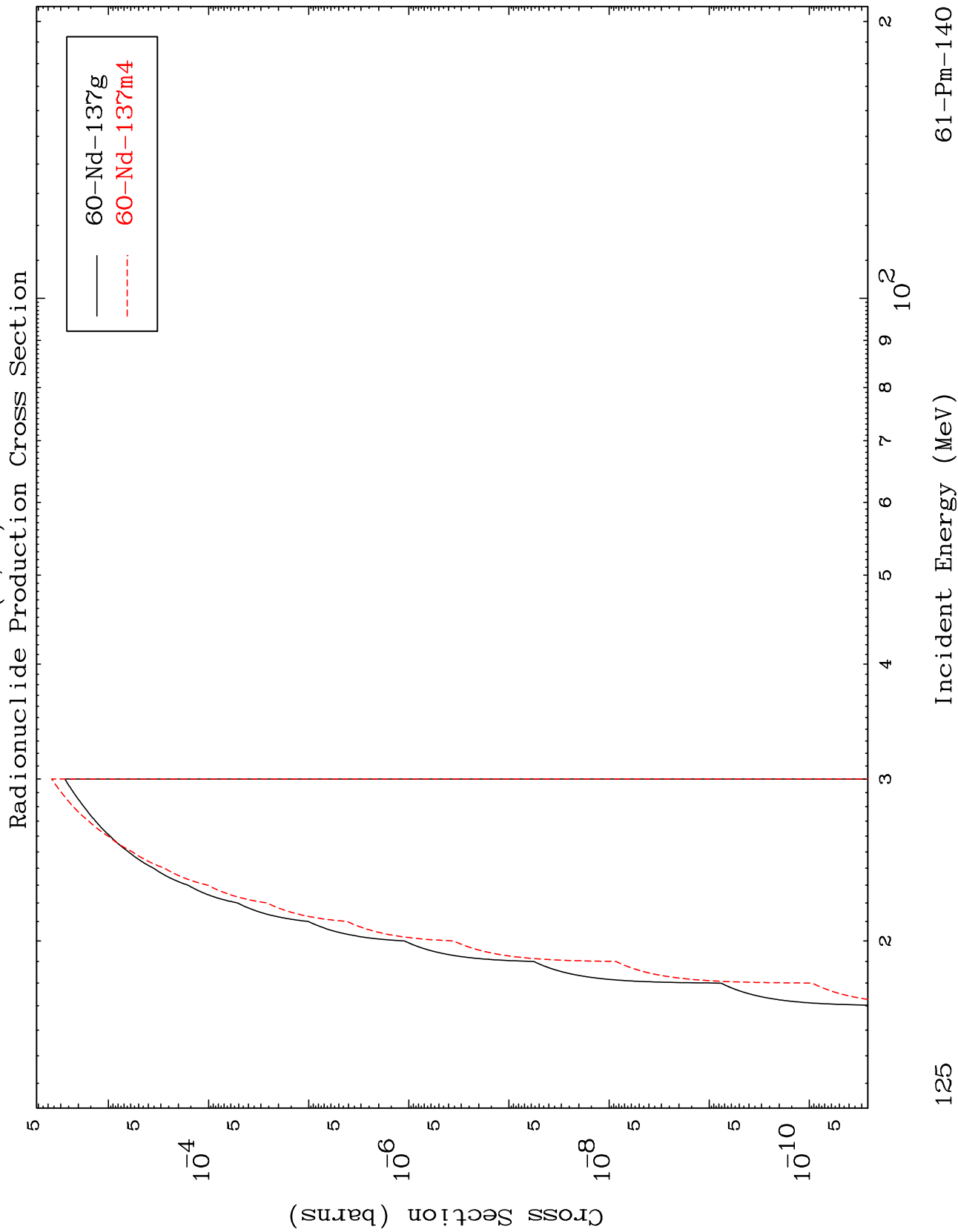
Incident Energy (MeV)

61-Pm-140

MAT 6128

(n,n') t

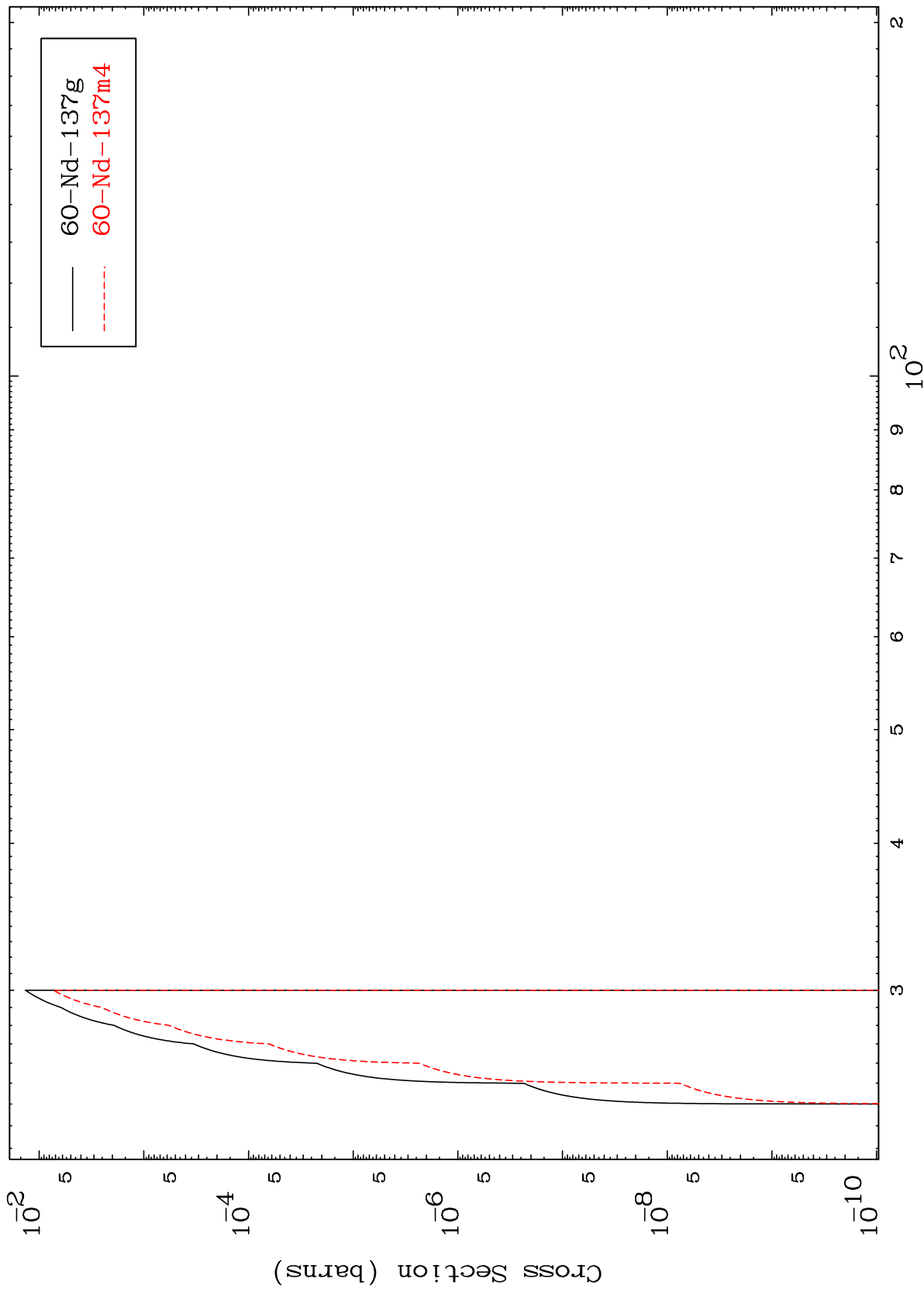
61-Pm-140



125

61-Pm-140

Radionuclide Production Cross Section

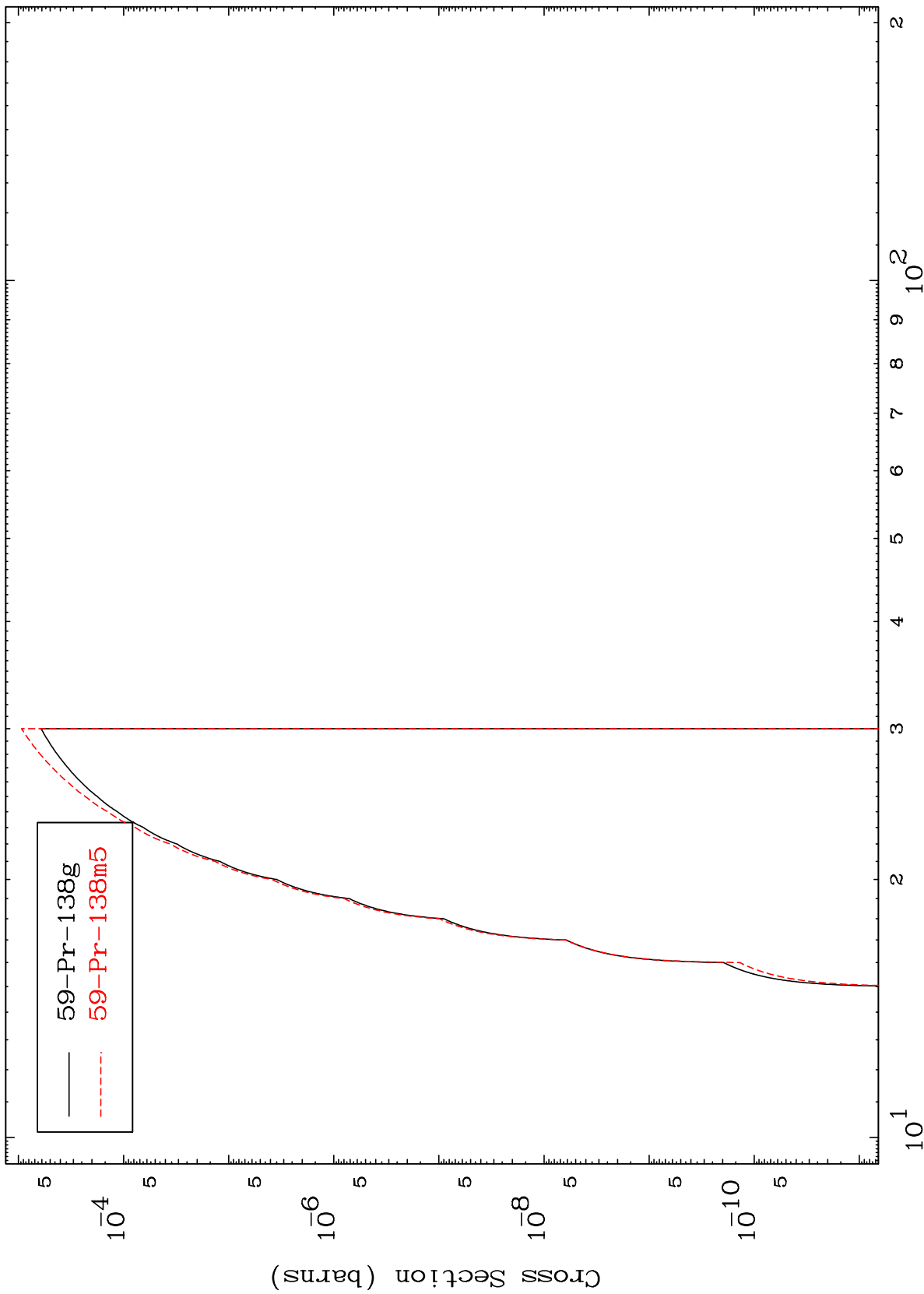


MAT 6128

(n,2n) p

61-Pm-140

Radionuclide Production Cross Section



Incident Energy (MeV)

61-Pm-140

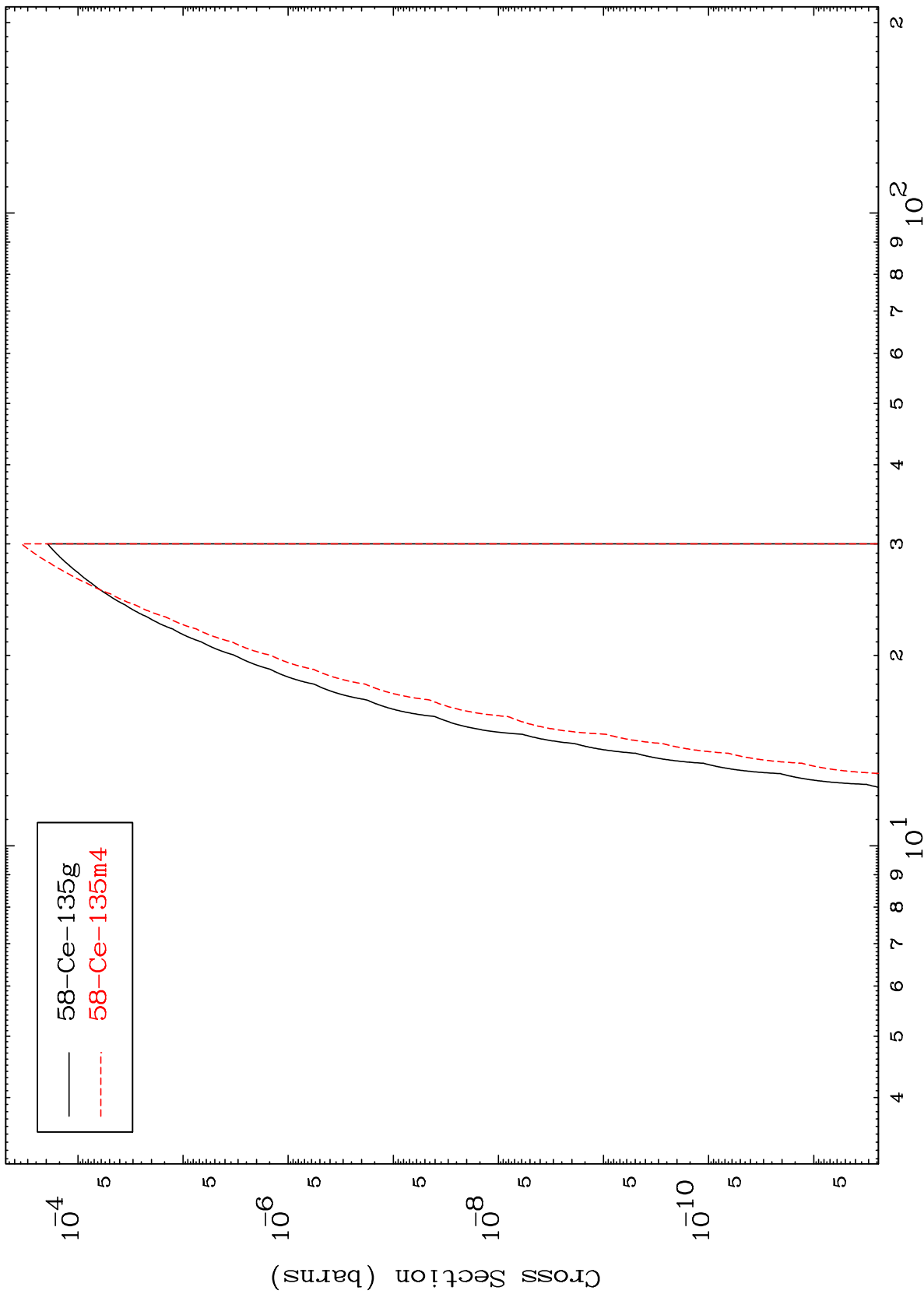
127

MAT 6128

61-Pm-140

(n,n') p α

Radionuclide Production Cross Section



— 58-Ce-135g
- - - 58-Ce-135m4

128

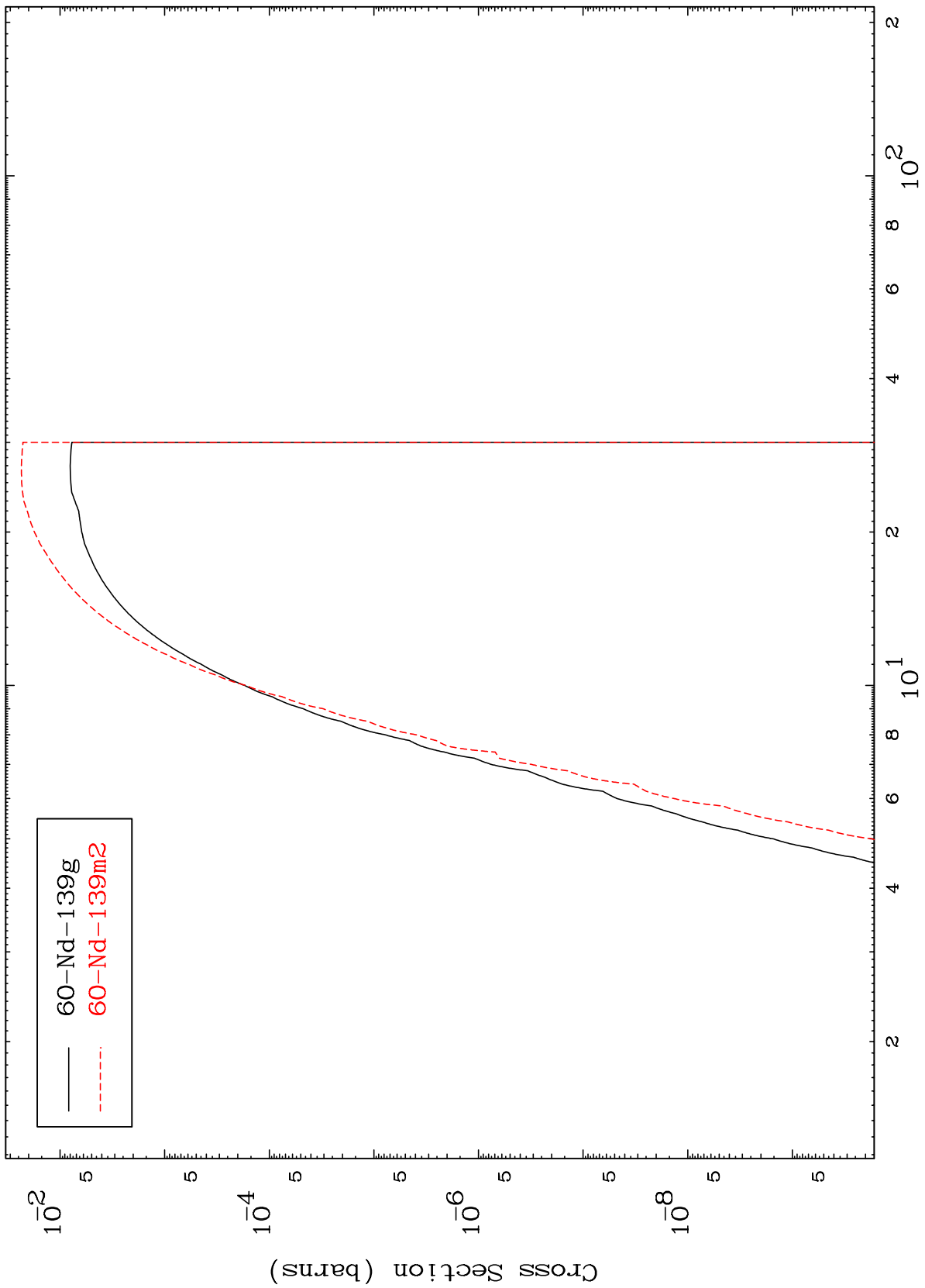
Incident Energy (MeV)

61-Pm-140

MAT 6128

61-Pm-140

(n,d)
Radionuclide Production Cross Section



129

61-Pm-140

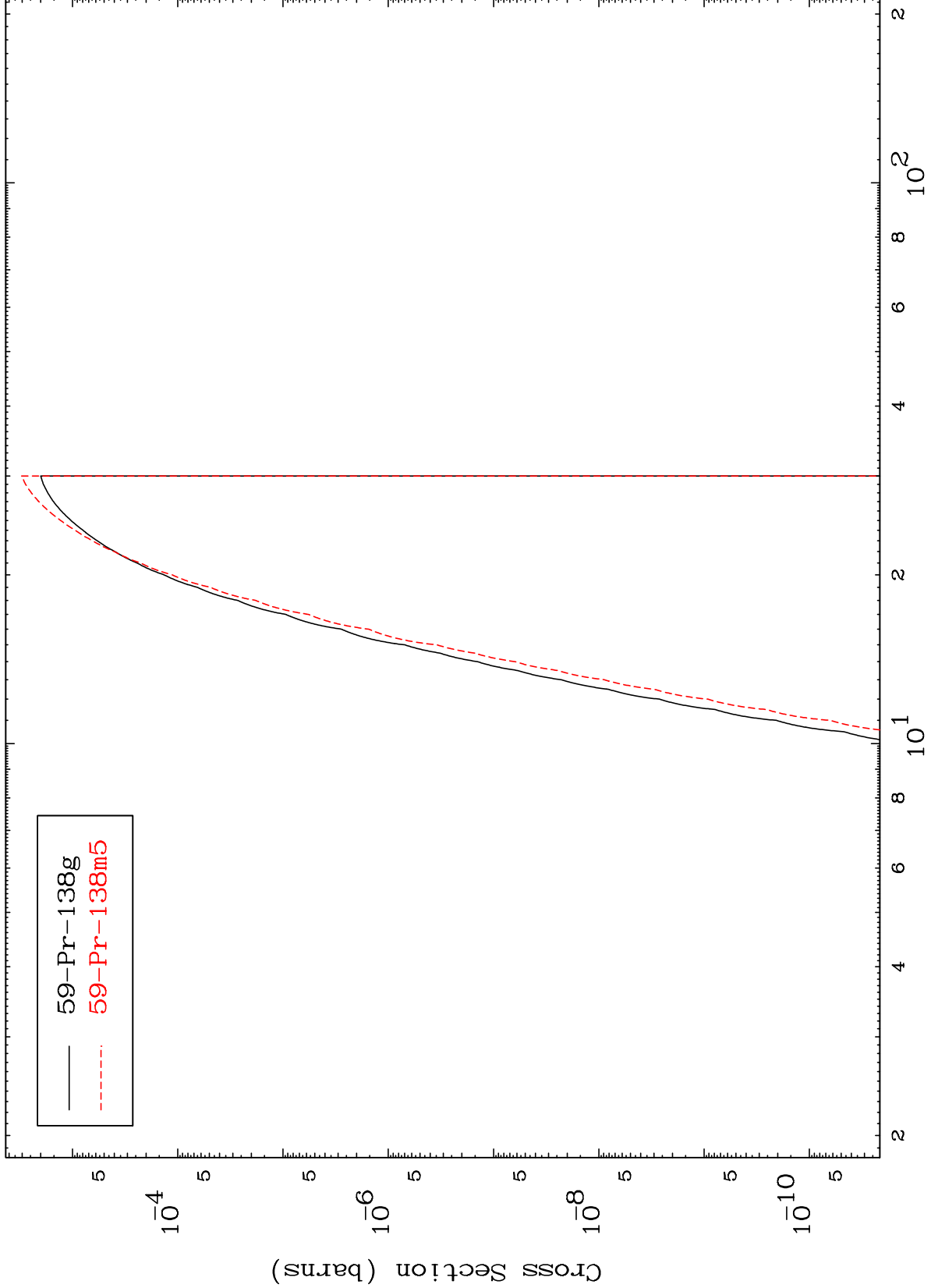
Incident Energy (MeV)

MAT 6128

(n,He-3)

61-Pm-140

Radionuclide Production Cross Section



130

Incident Energy (MeV)

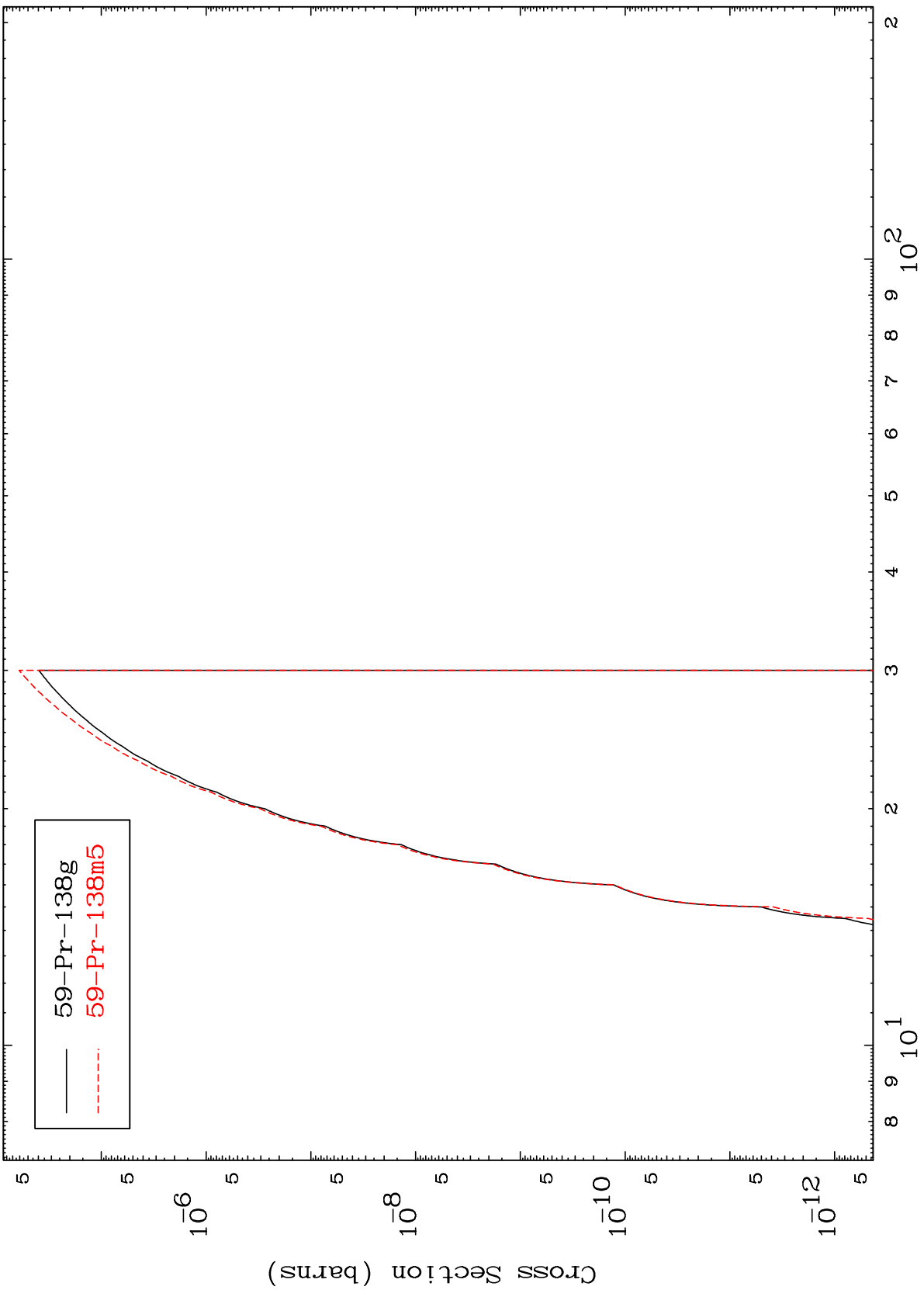
61-Pm-140

MAT 6128

(n,p) d

61-Pm-140

Radionuclide Production Cross Section



131

Incident Energy (MeV)

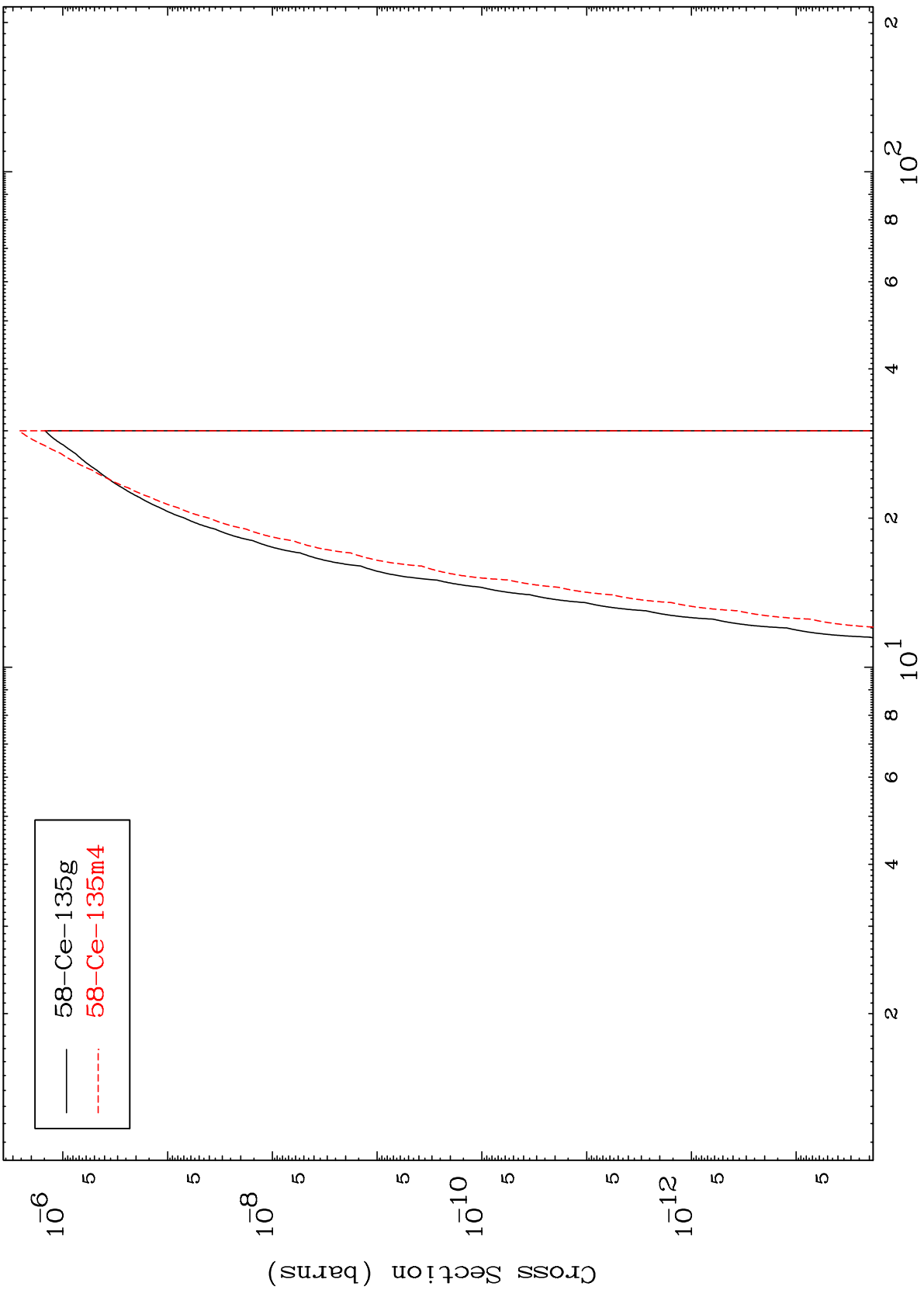
61-Pm-140

MAT 6128

(n,d) α

61-Pm-140

Radionuclide Production Cross Section



— 58-Ce-135g
- - - 58-Ce-135m4

132

Incident Energy (MeV)

61-Pm-140