

Program EVALPLOT  
(Version 2021-1)

by

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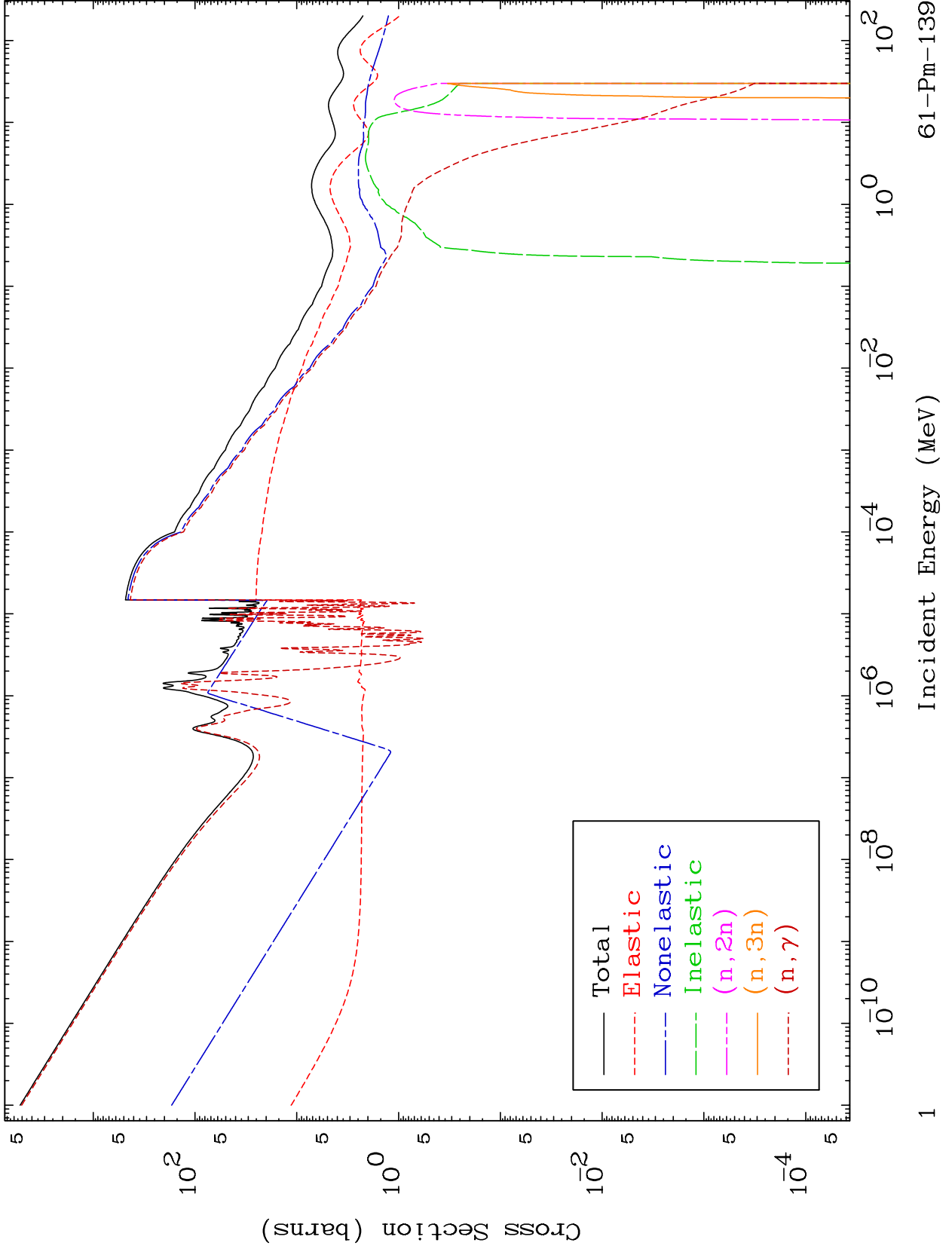
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6125

Neutron Major  
293 Kelvin Cross Sections

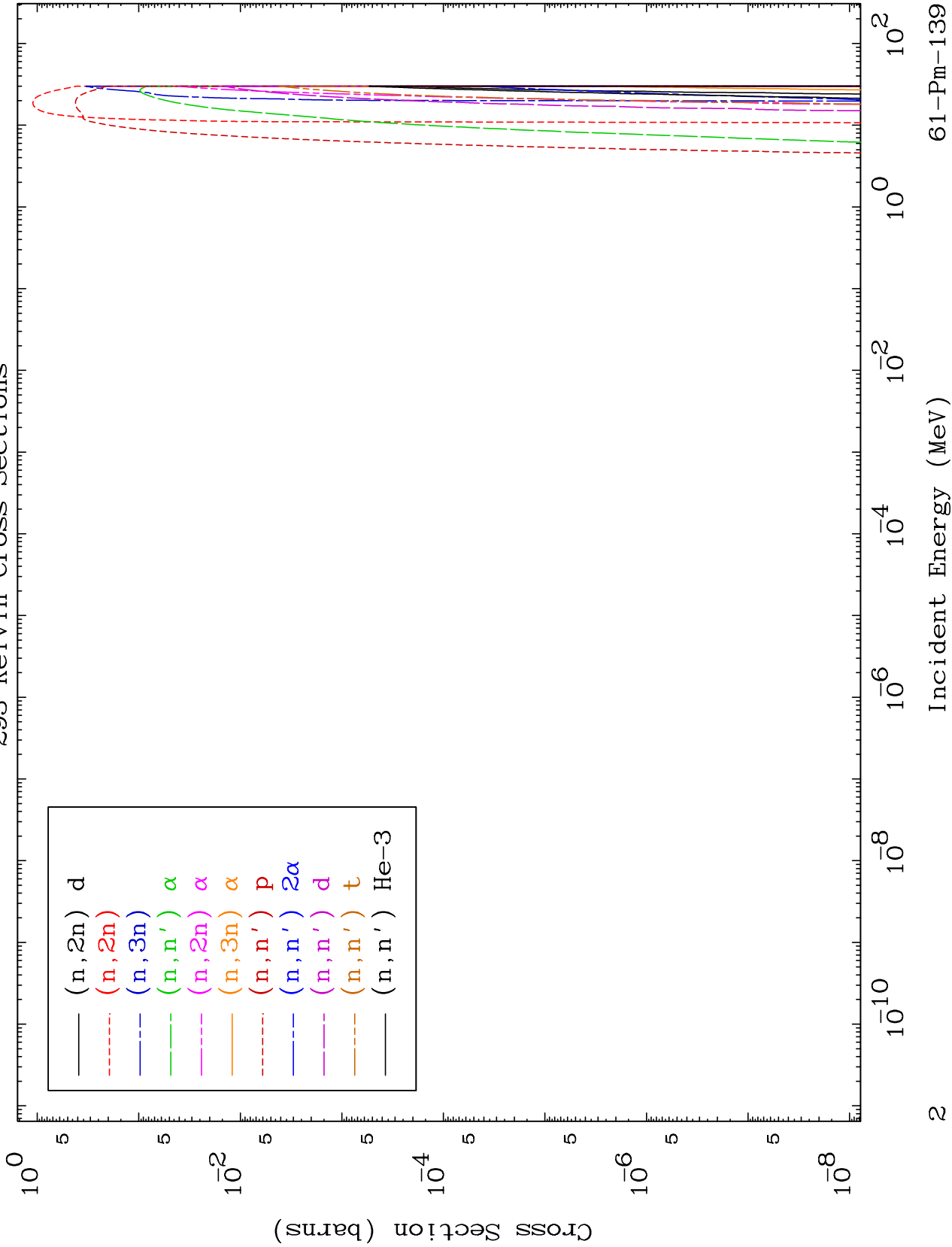
61-Pm-139

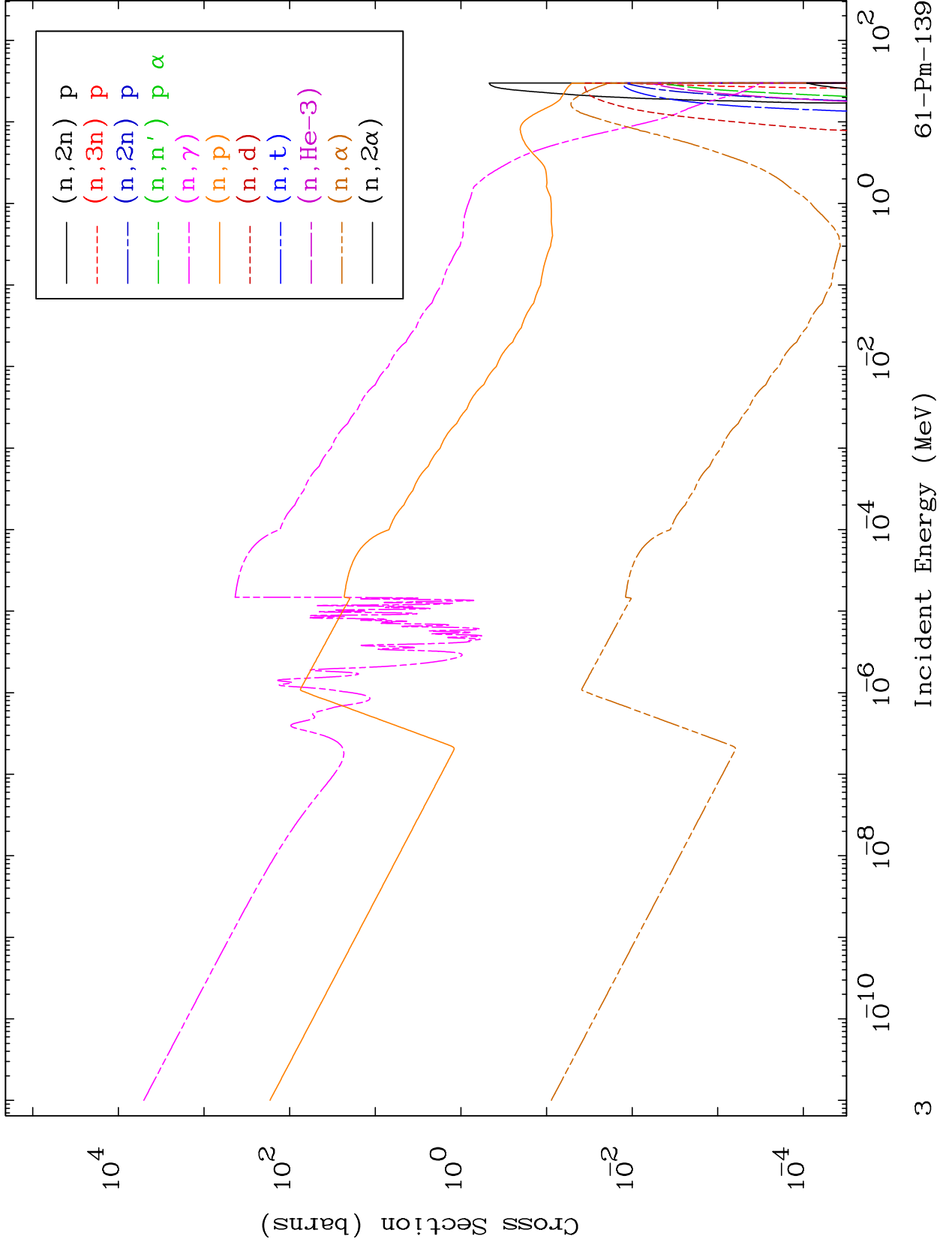


MAT 6125

Neutron Absorption  
293 Kelvin Cross Sections

61-Pm-139

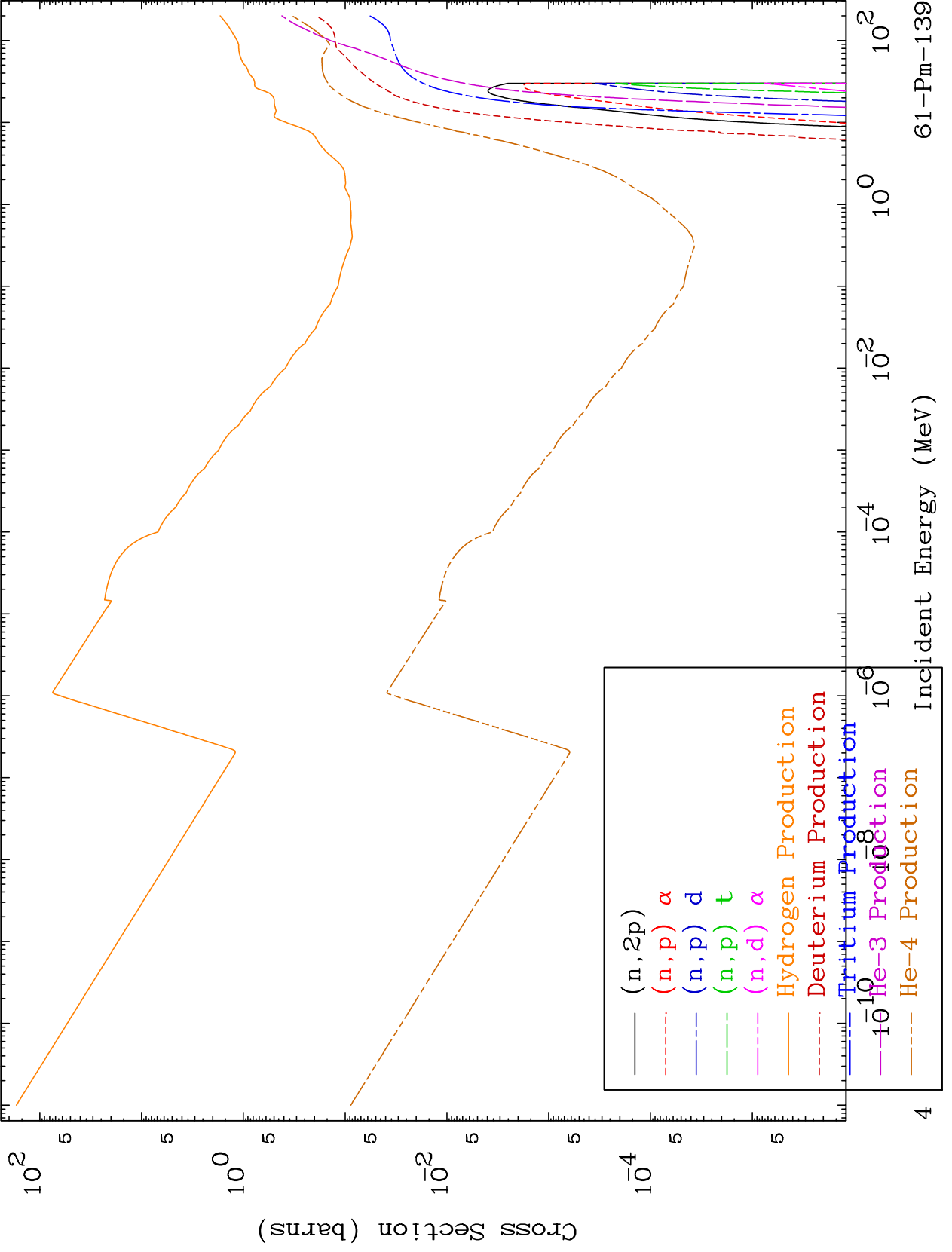




MAT 6125

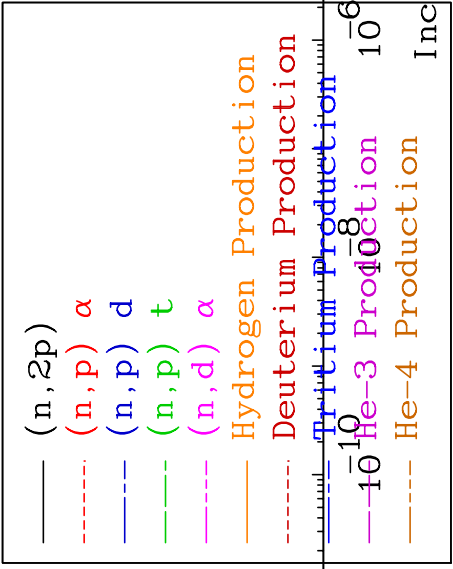
### Neutron Absorption 293 Kelvin Cross Sections

61-Pm-139



61-Pm-139

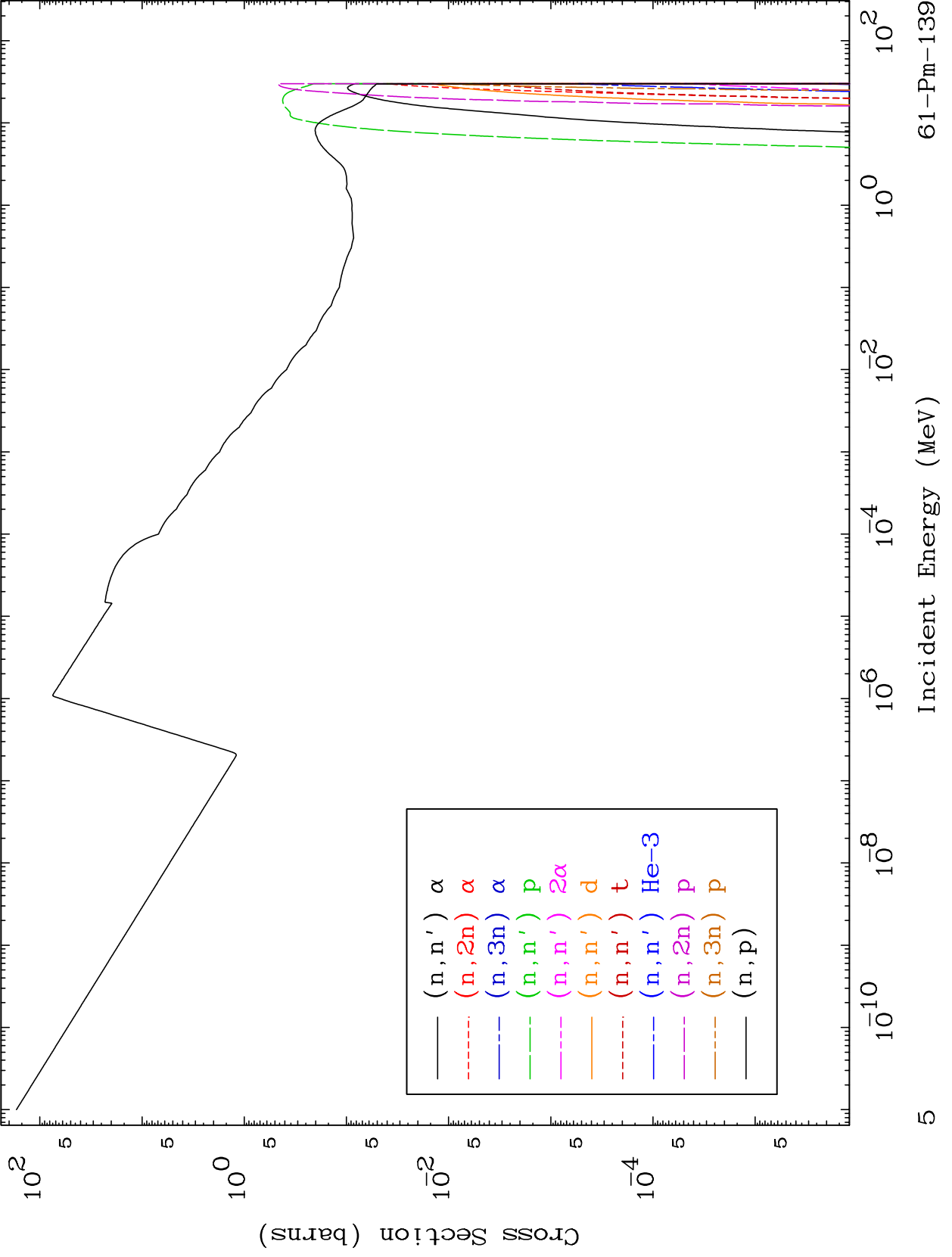
Incident Energy (MeV)



MAT 6125

Charged Particle  
293 Kelvin Cross Sections

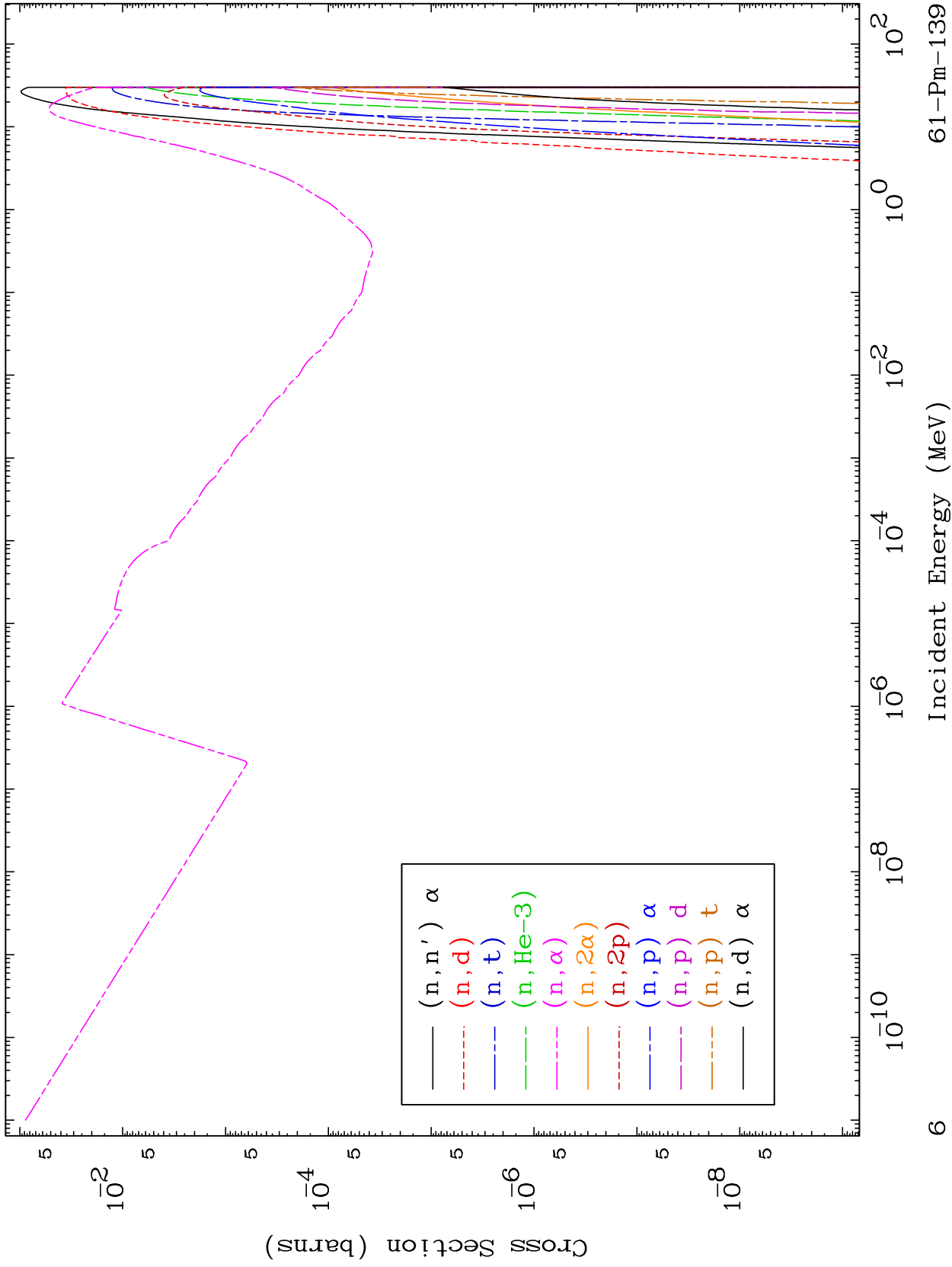
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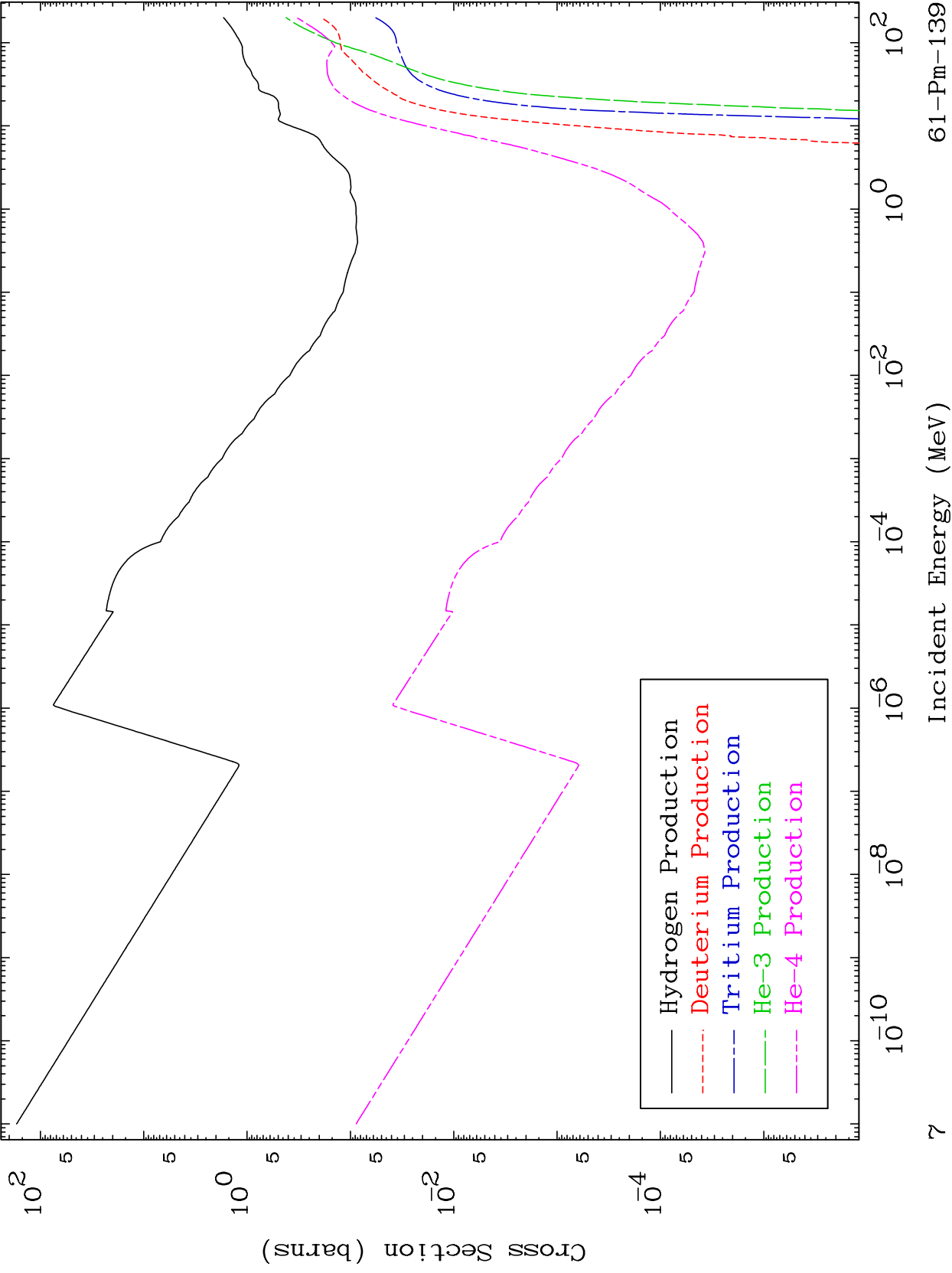


MAT 6125

Charged Particle  
293 Kelvin Cross Sections

61-Pm-139



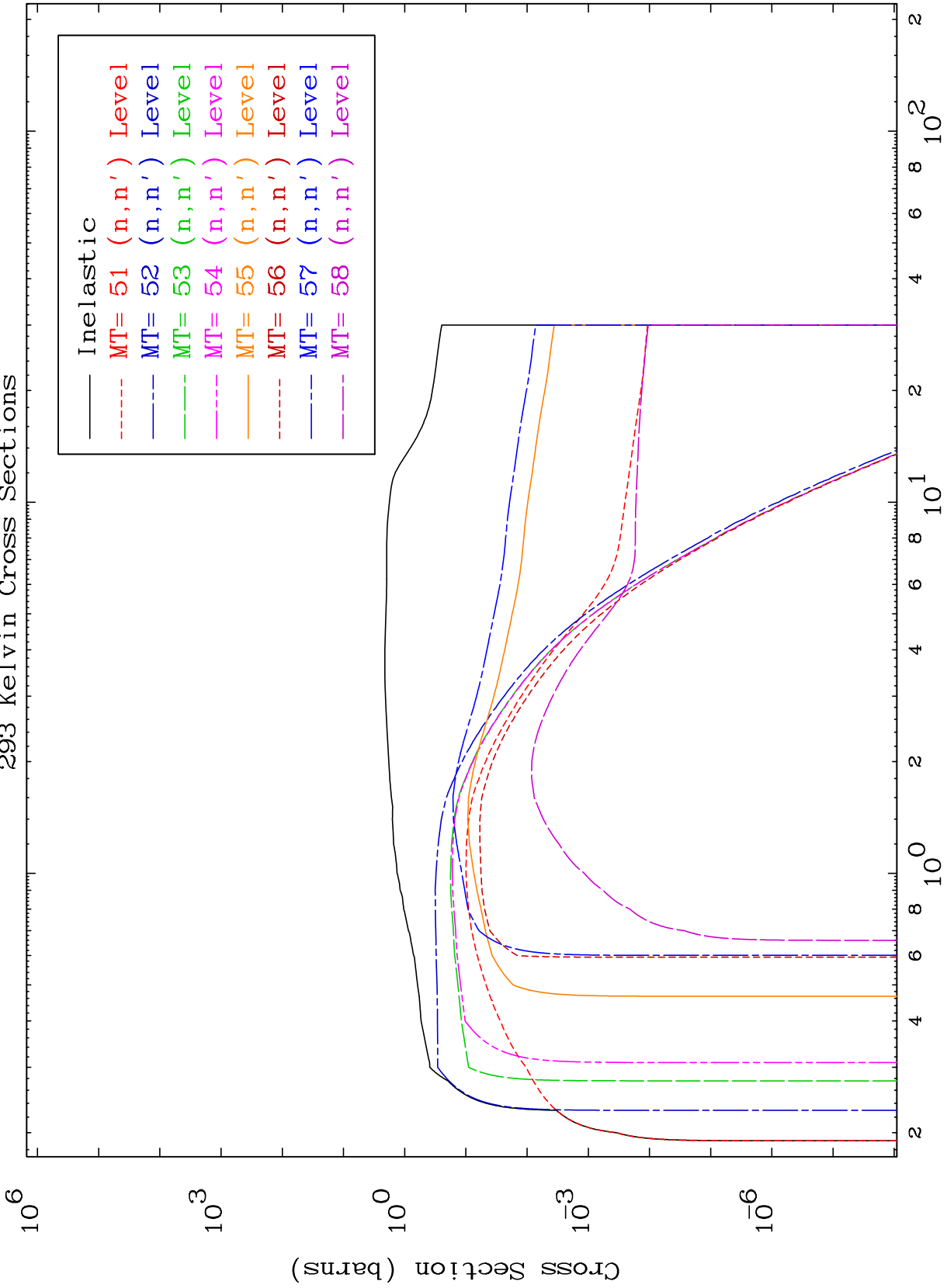


MAT 6125

(n,n') Levels

61-Pm-139

293 Kelvin Cross Sections



8

Incident Energy (MeV)

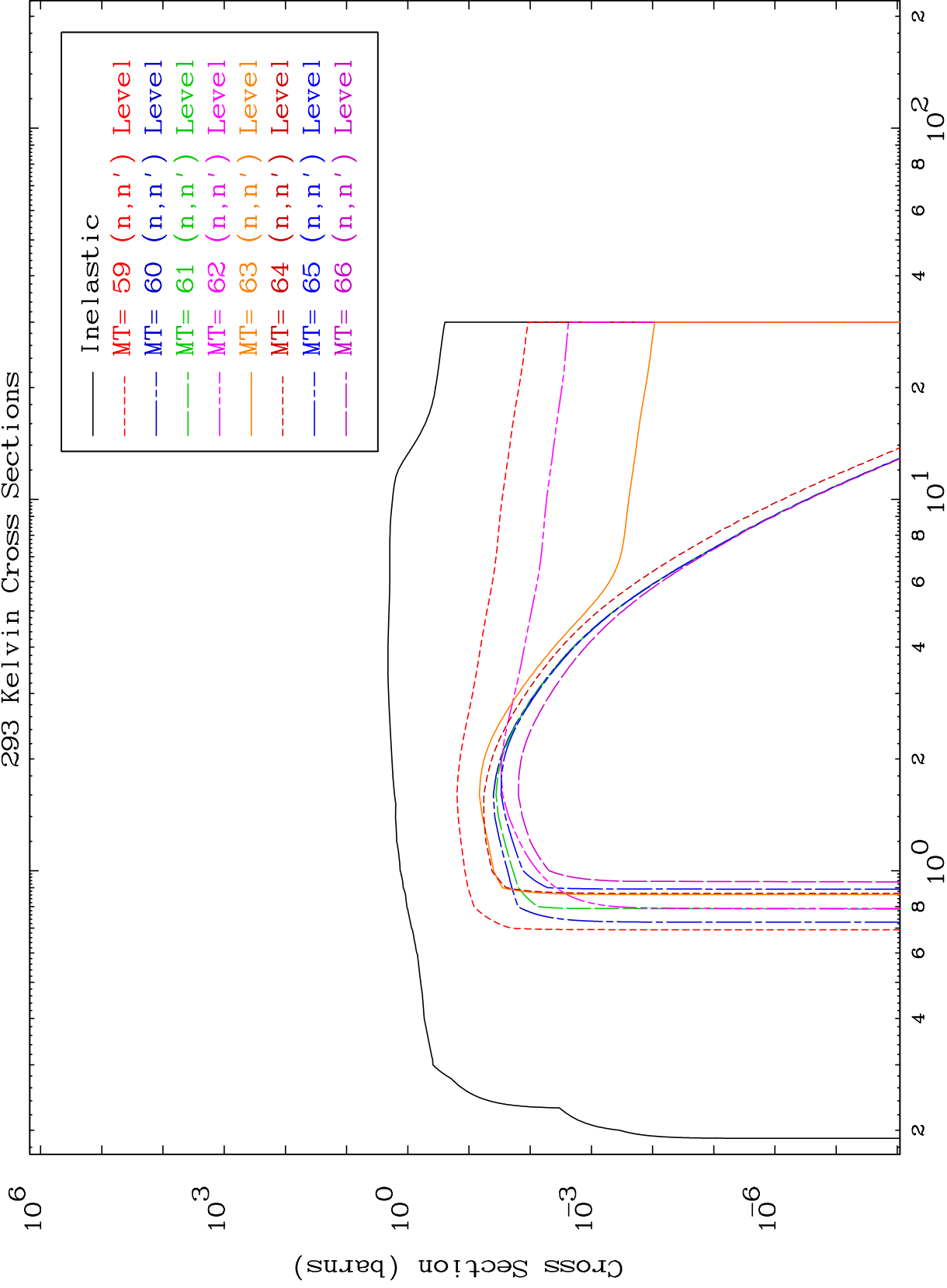
61-Pm-139

MAT 6125

(n,n') Levels

61-Pm-139

293 Kelvin Cross Sections



9

Incident Energy (MeV)

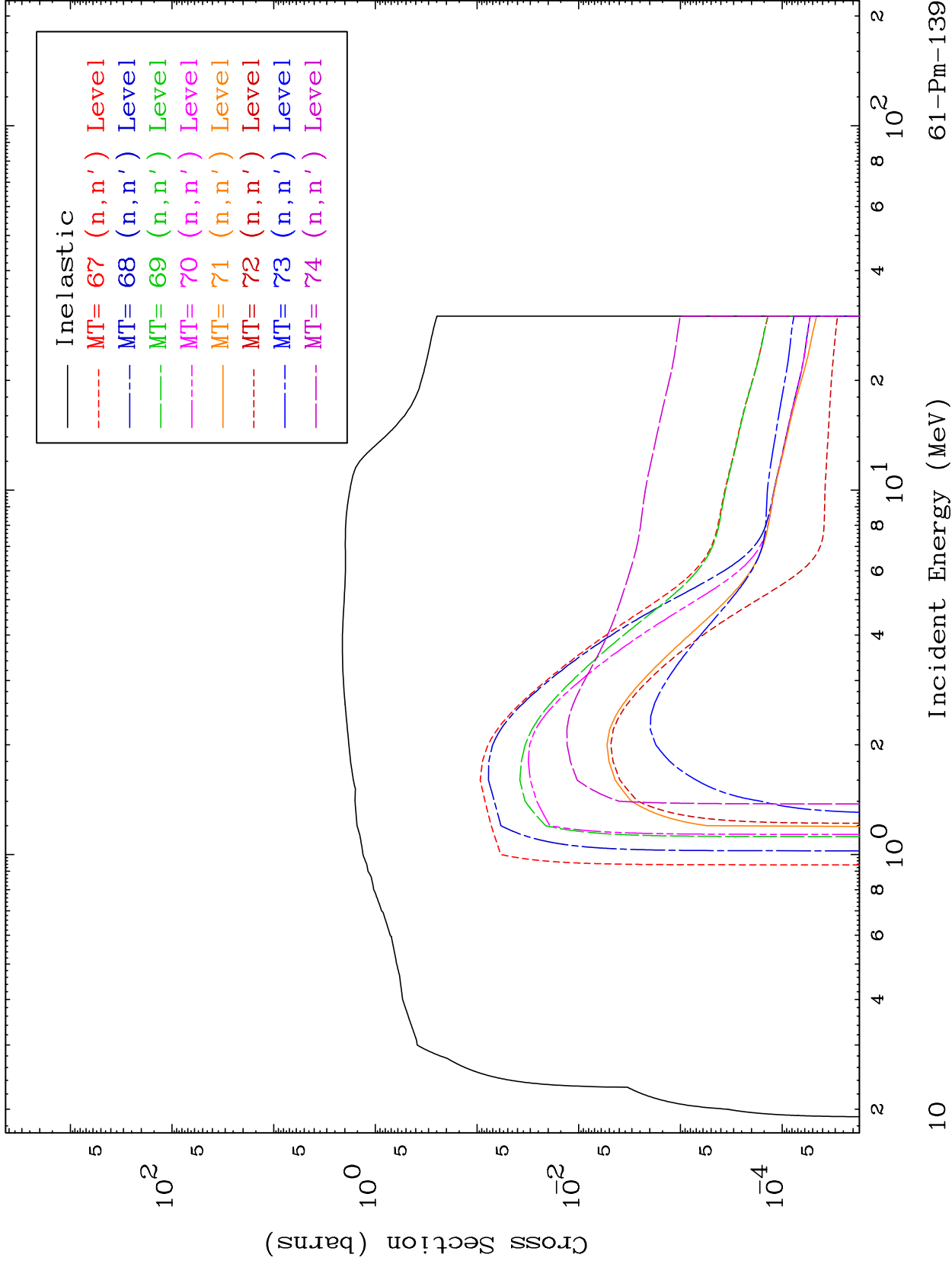
61-Pm-139

MAT 6125

(n,n') Levels

61-Pm-139

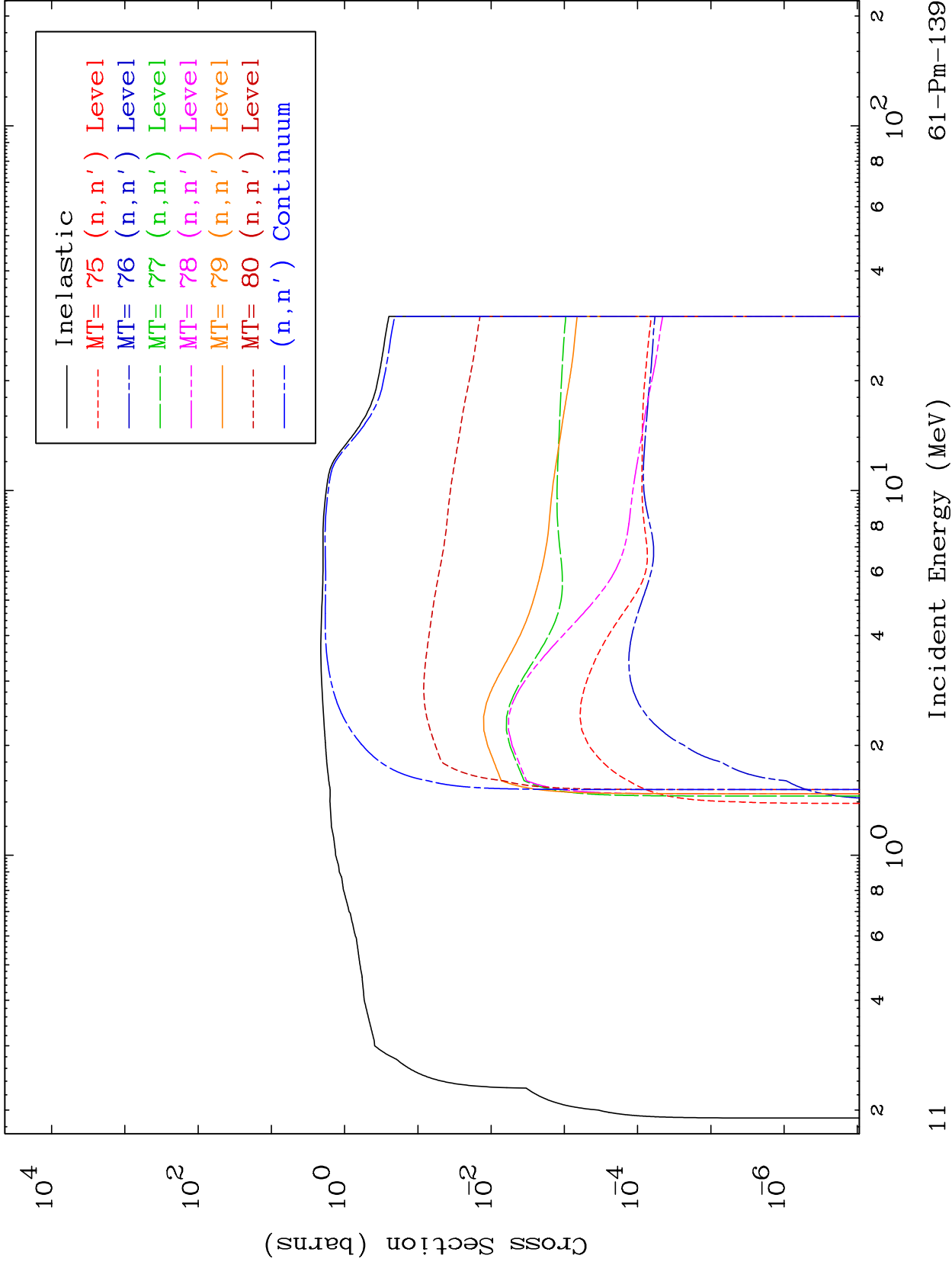
293 Kelvin Cross Sections



61-Pm-139

Incident Energy (MeV)

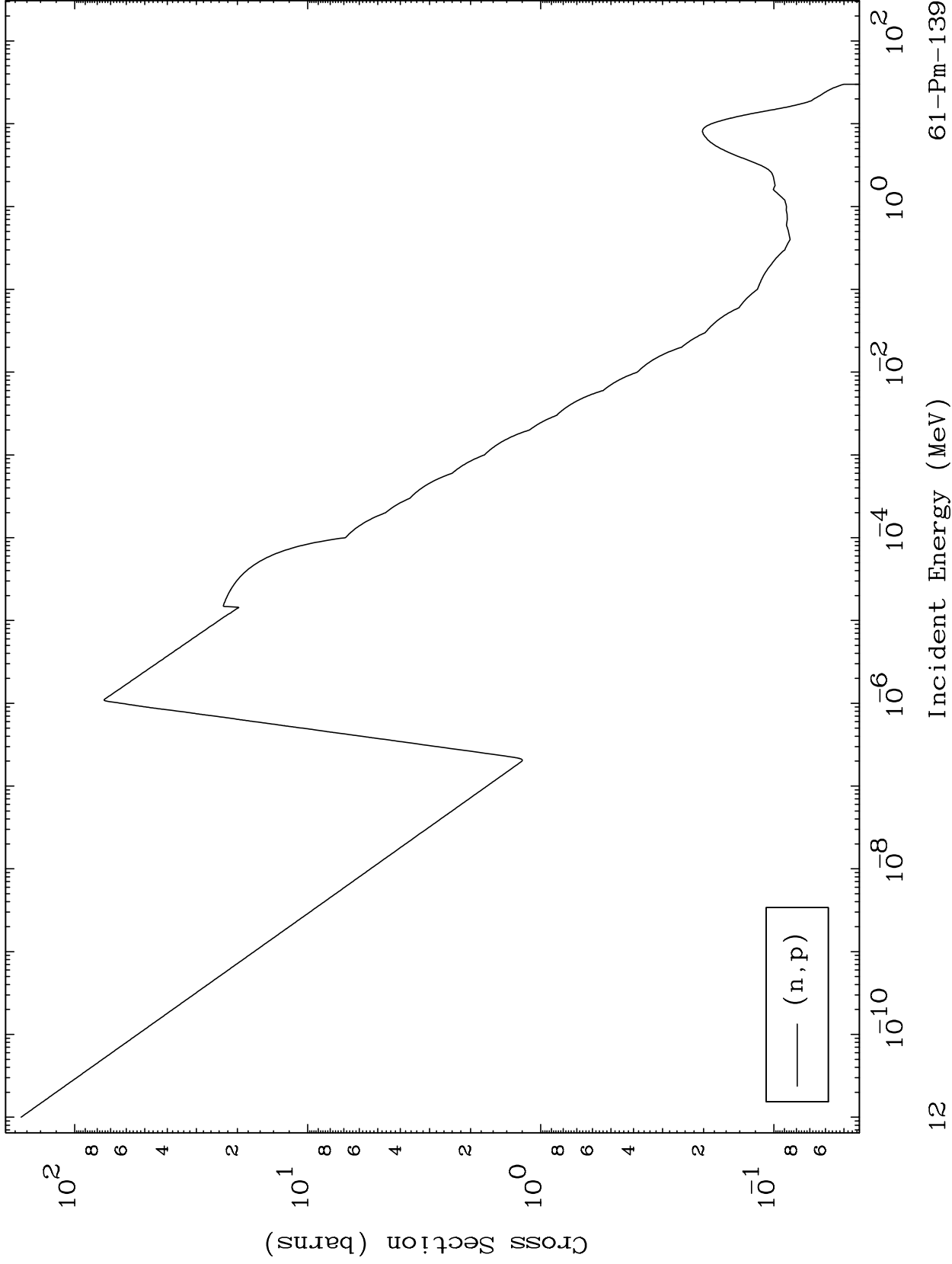
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MAT 6125

(n,p) Levels  
293 Kelvin Cross Sections

61-Pm-139

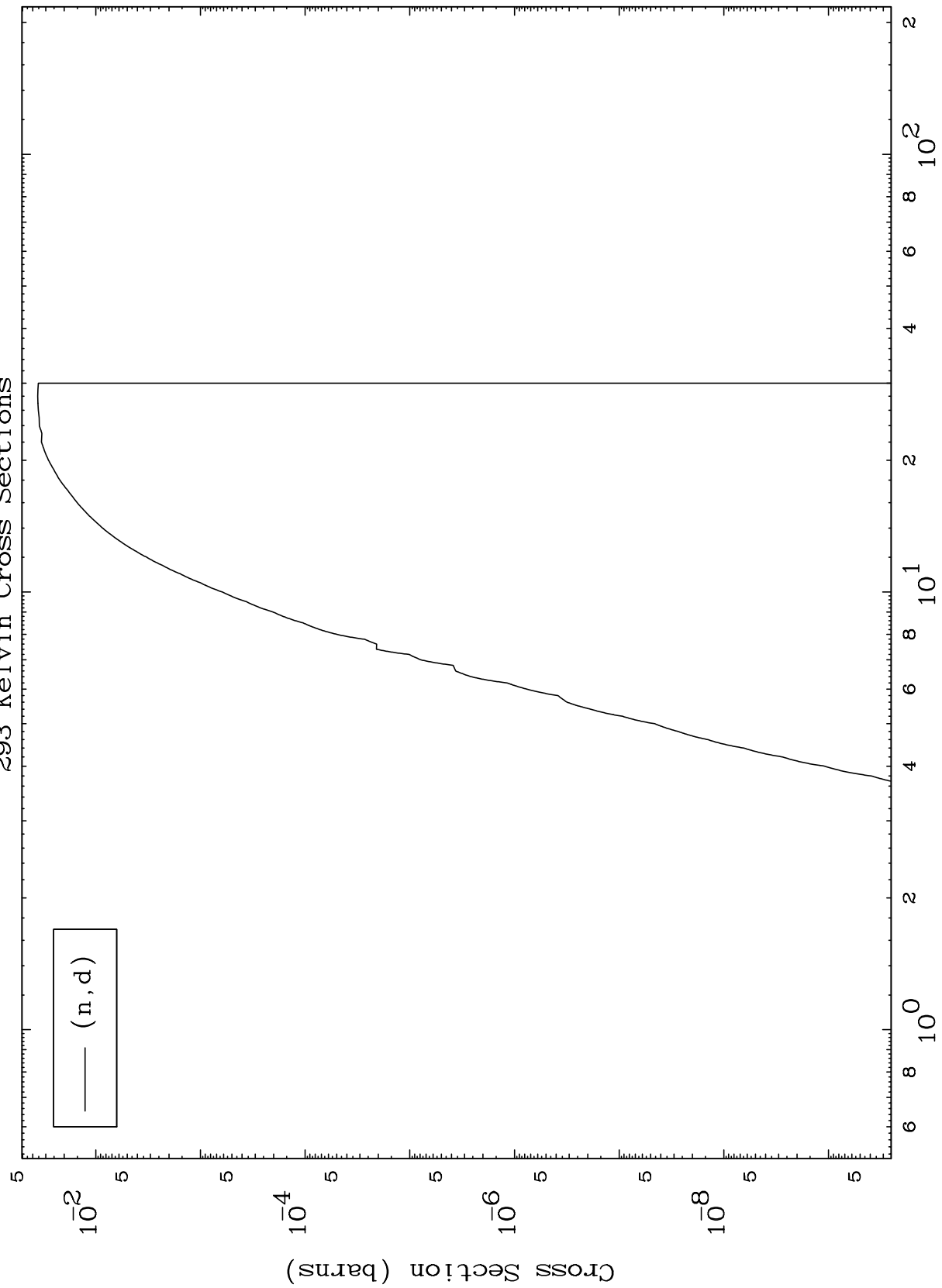


12

MAT 6125

(n,d) Levels  
293 Kelvin Cross Sections

61-Pm-139



13

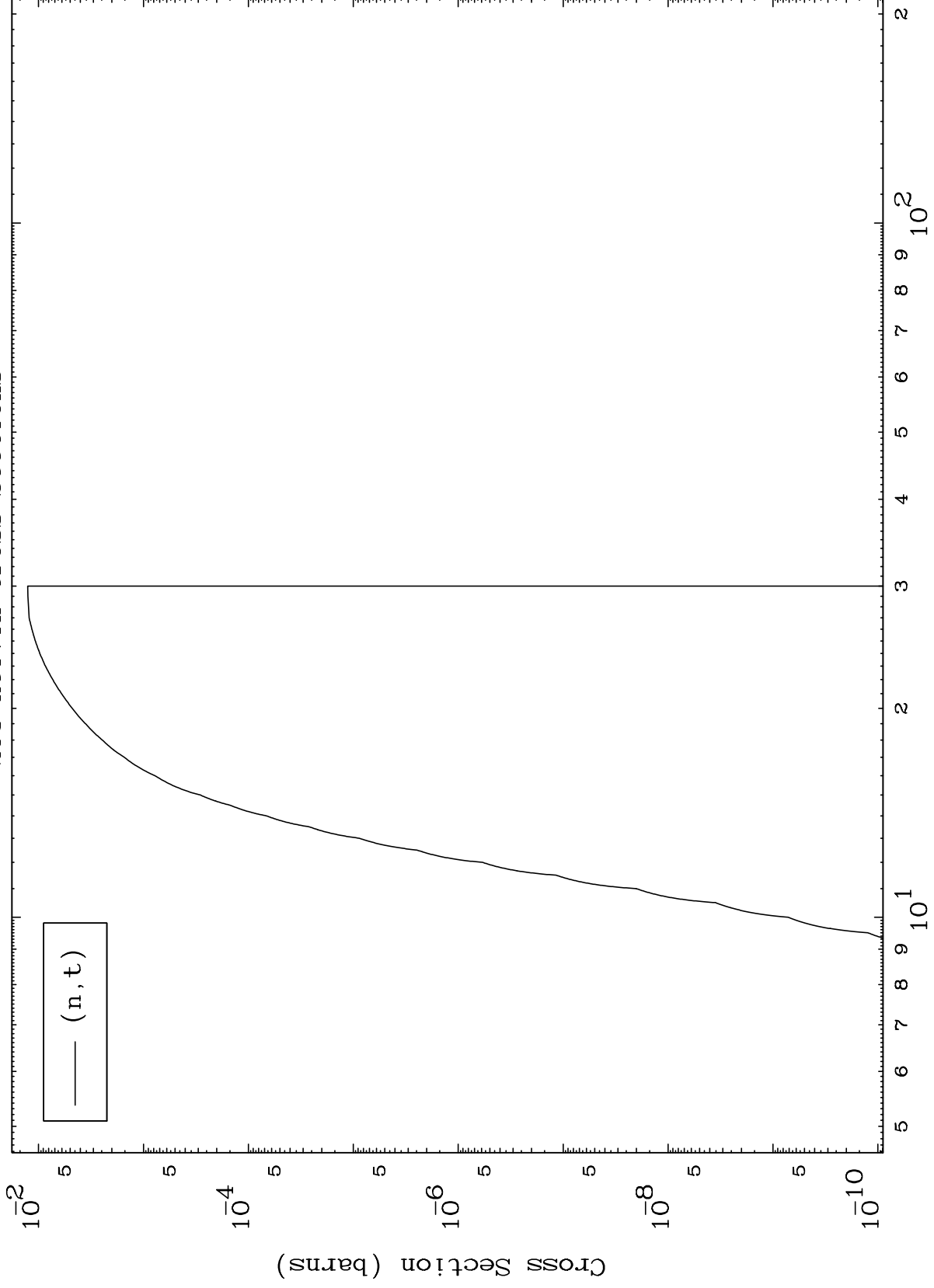
Incident Energy (MeV)

61-Pm-139

MAT 6125

(n,t) Levels  
293 Kelvin Cross Sections

61-Pm-139



(n,t)

14

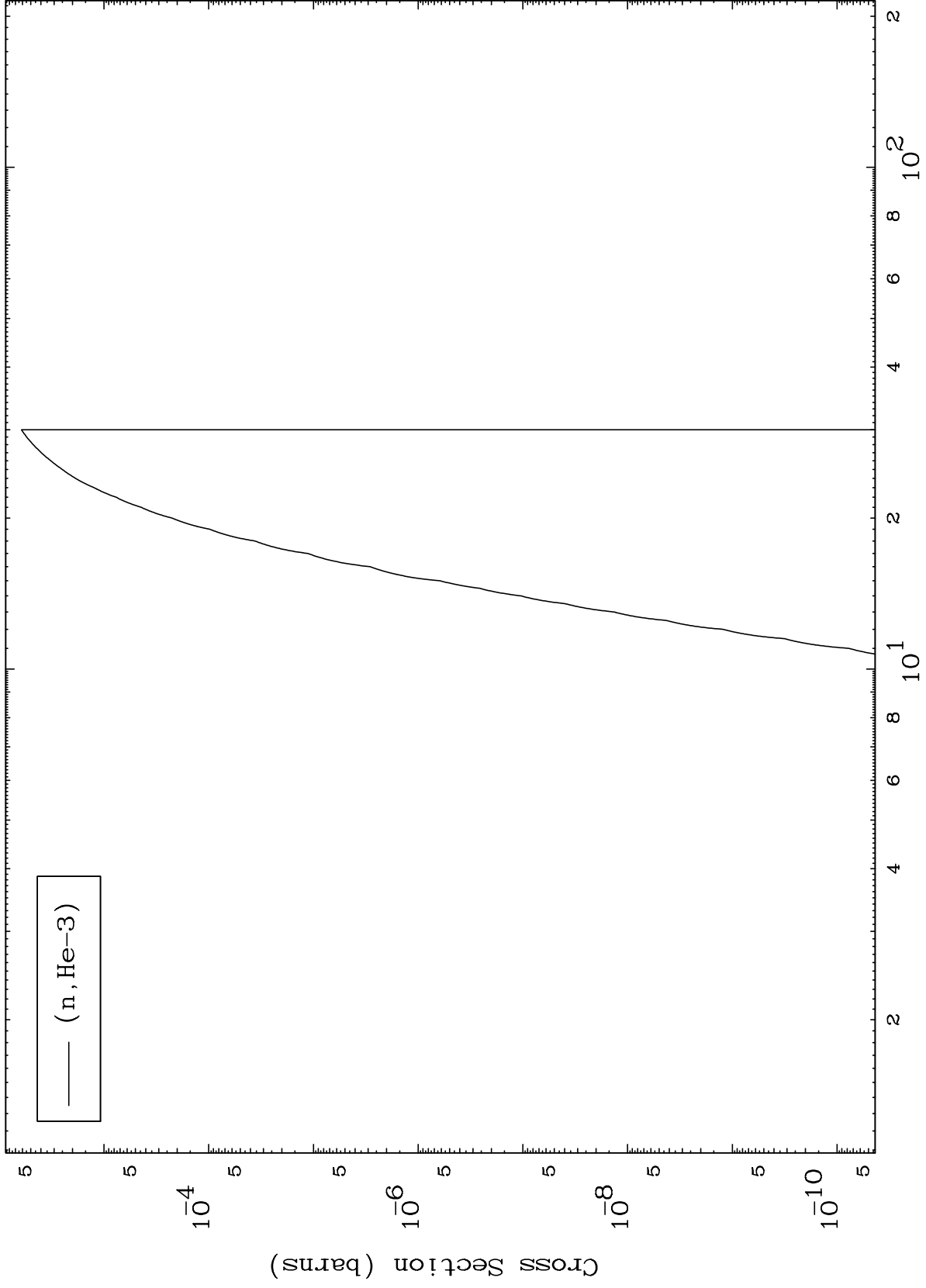
Incident Energy (MeV)

61-Pm-139

MAT 6125

(n,He3) Levels  
293 Kelvin Cross Sections

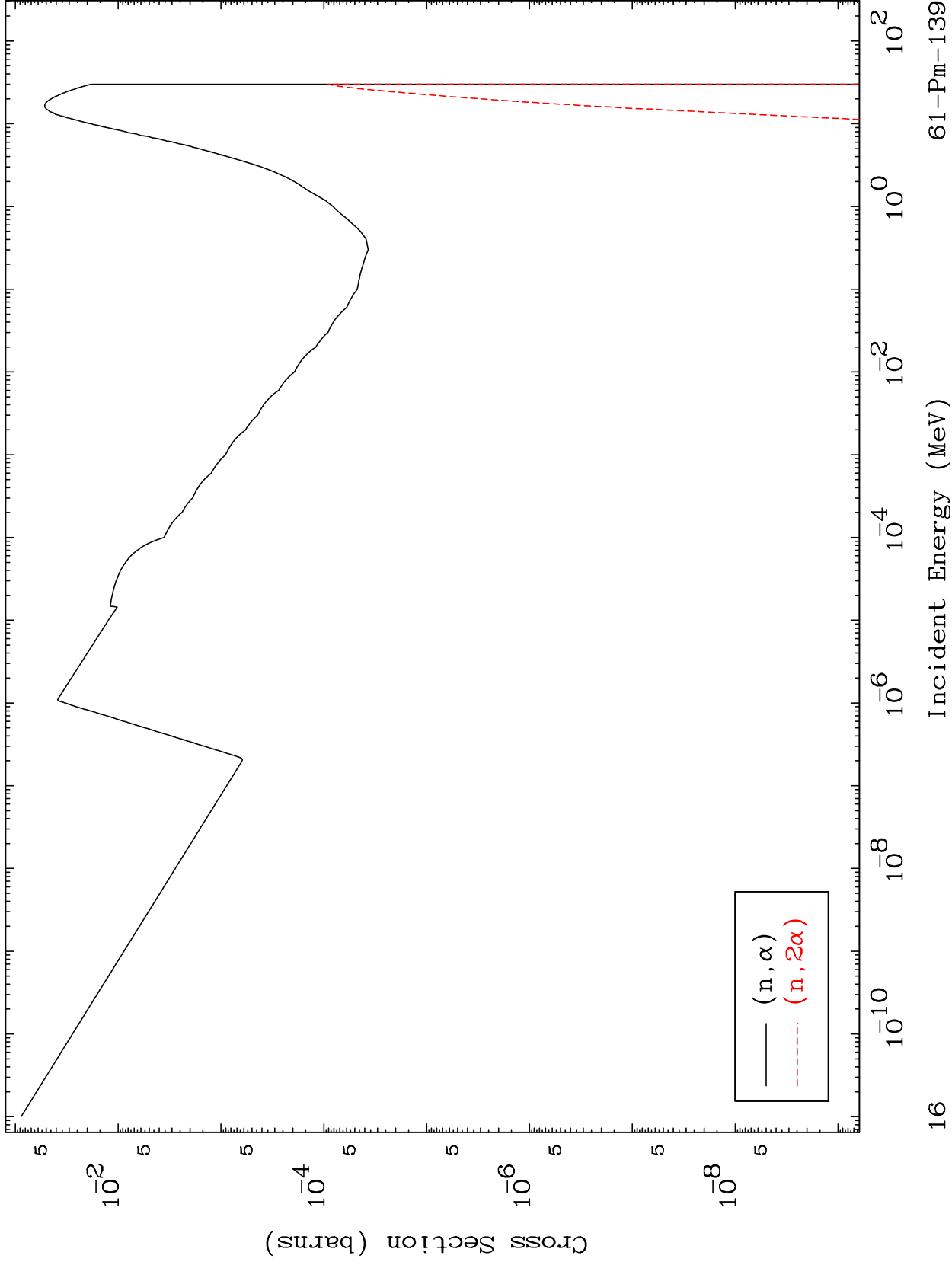
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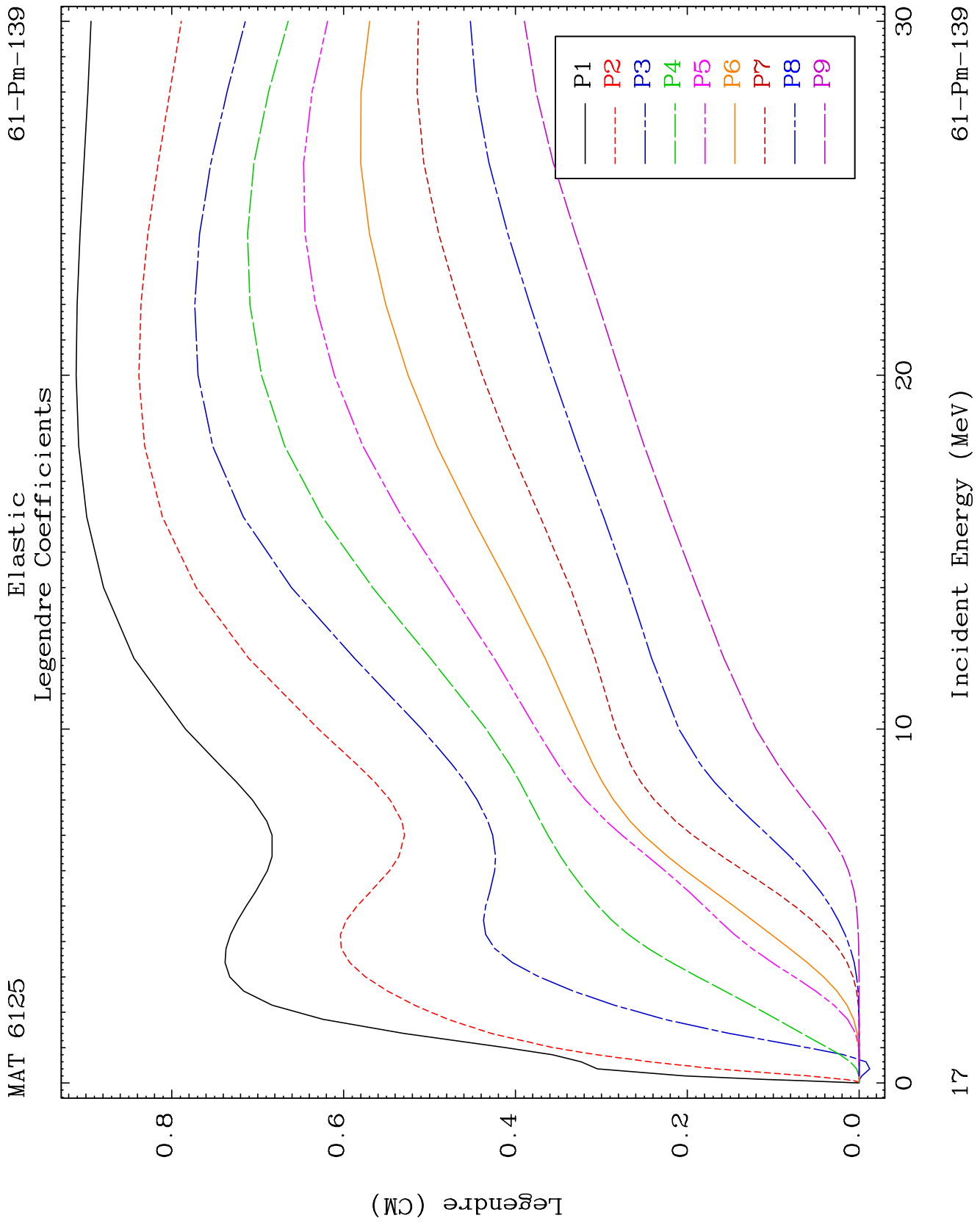


MAT 6125

(n,α) Levels  
293 Kelvin Cross Sections

61-Pm-139

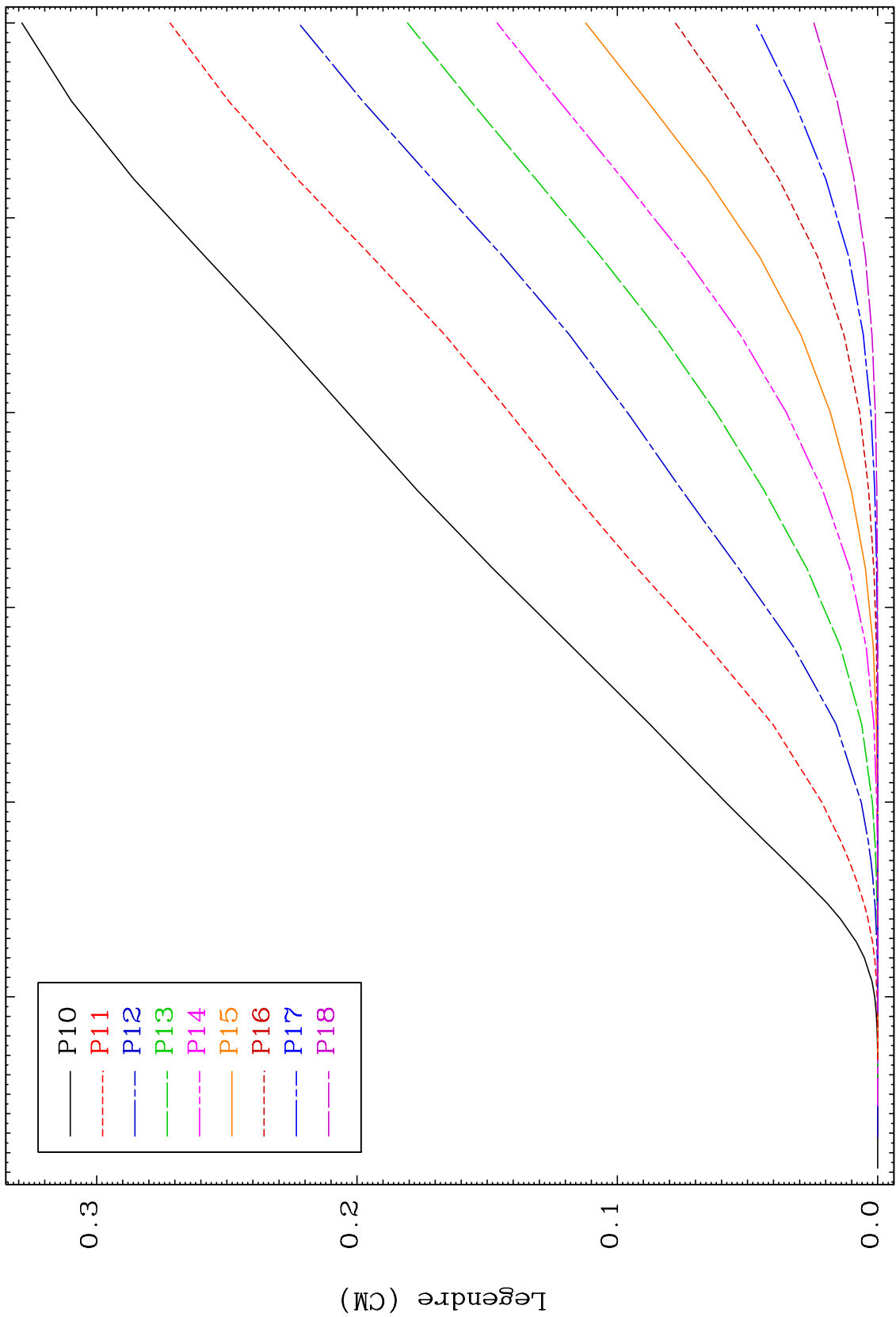




MAT 6125

Elastic Legendre Coefficients

61-Pm-139



18

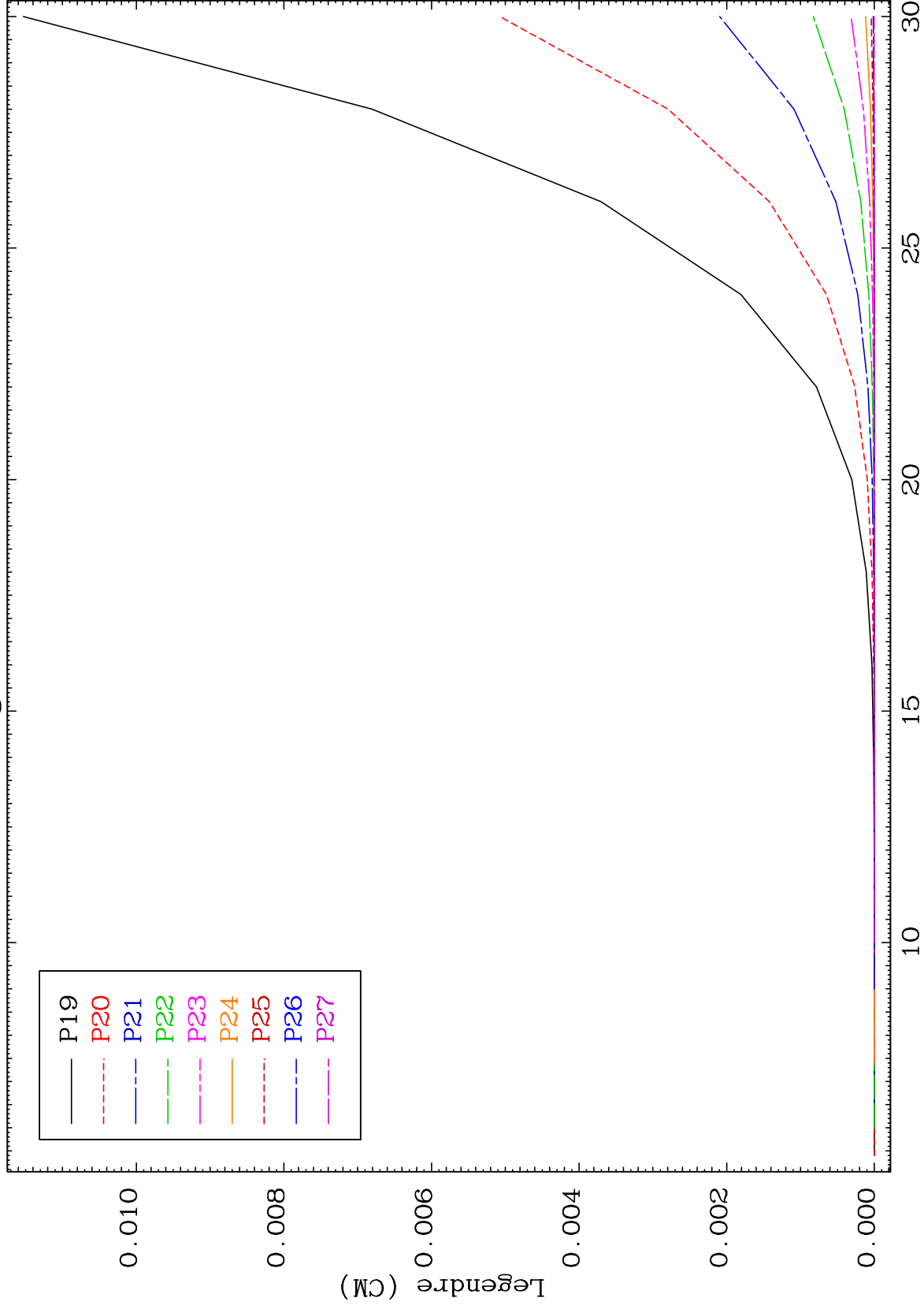
Incident Energy (MeV)

61-Pm-139

MAT 6125

### Elastic Legendre Coefficients

61-Pm-139



19

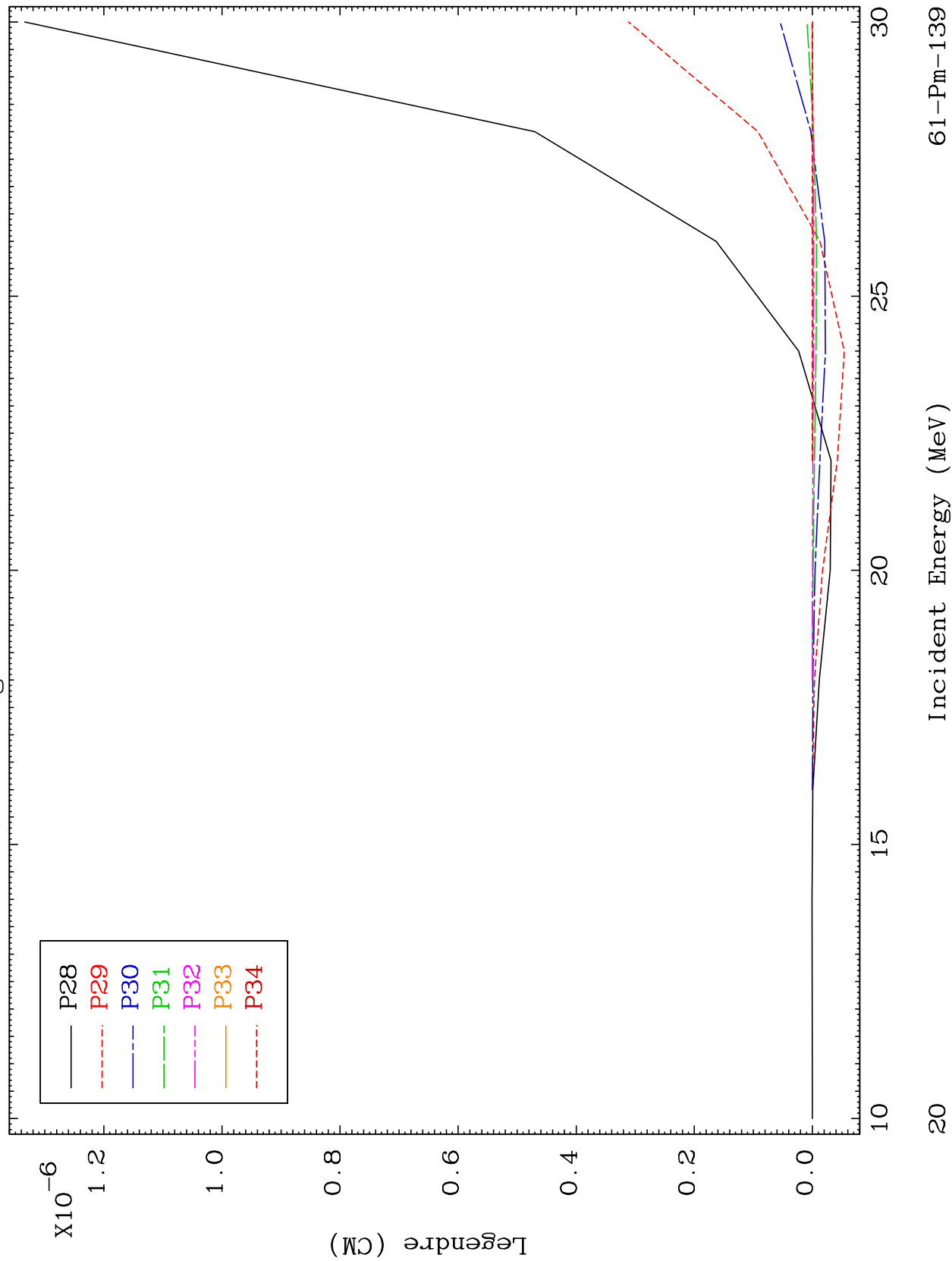
Incident Energy (MeV)

61-Pm-139

MAT 6125

Elastic Legendre Coefficients

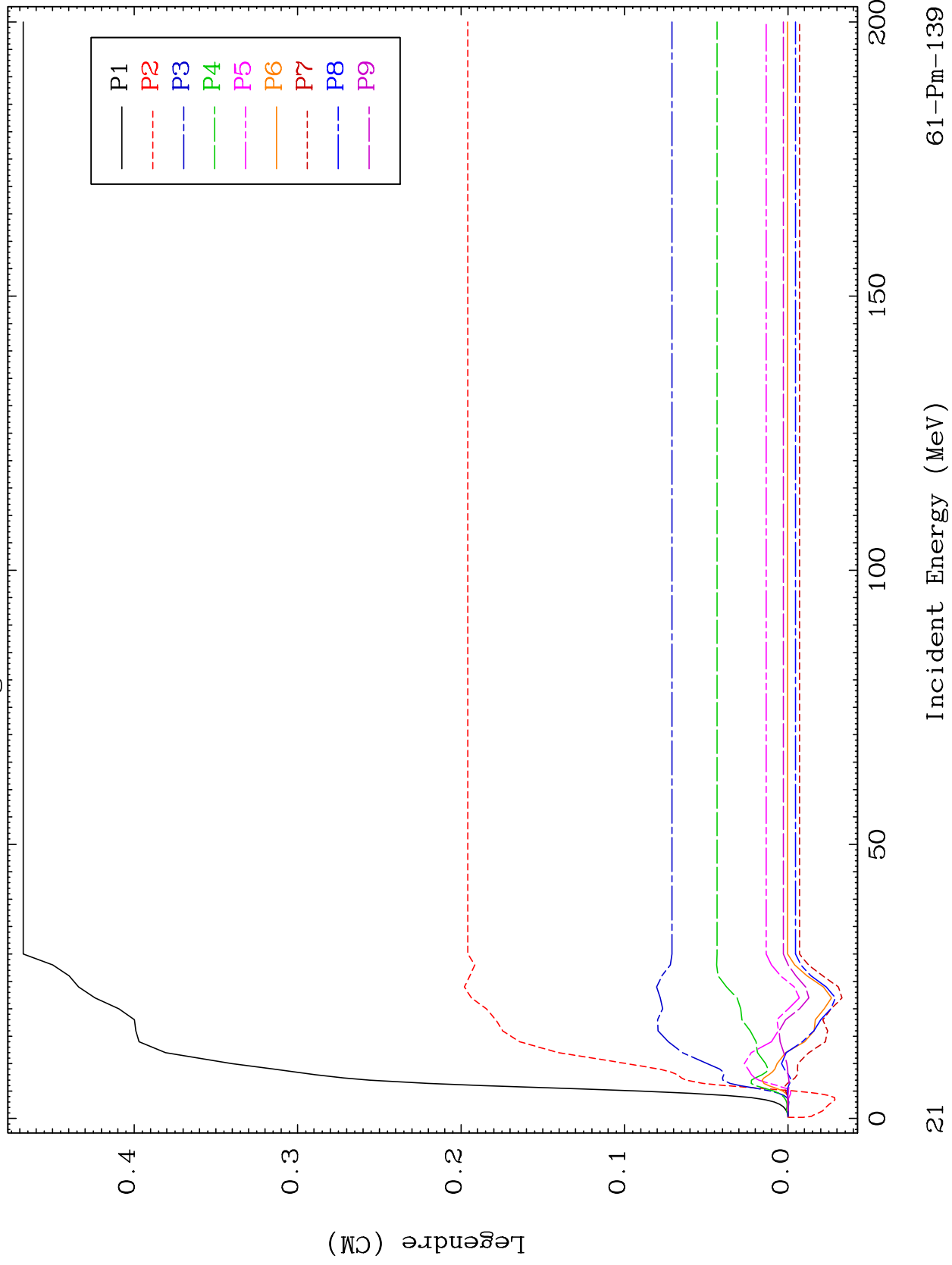
61-Pm-139



MAT 6125

MT= 51 (n,n') Level  
Legendre Coefficients

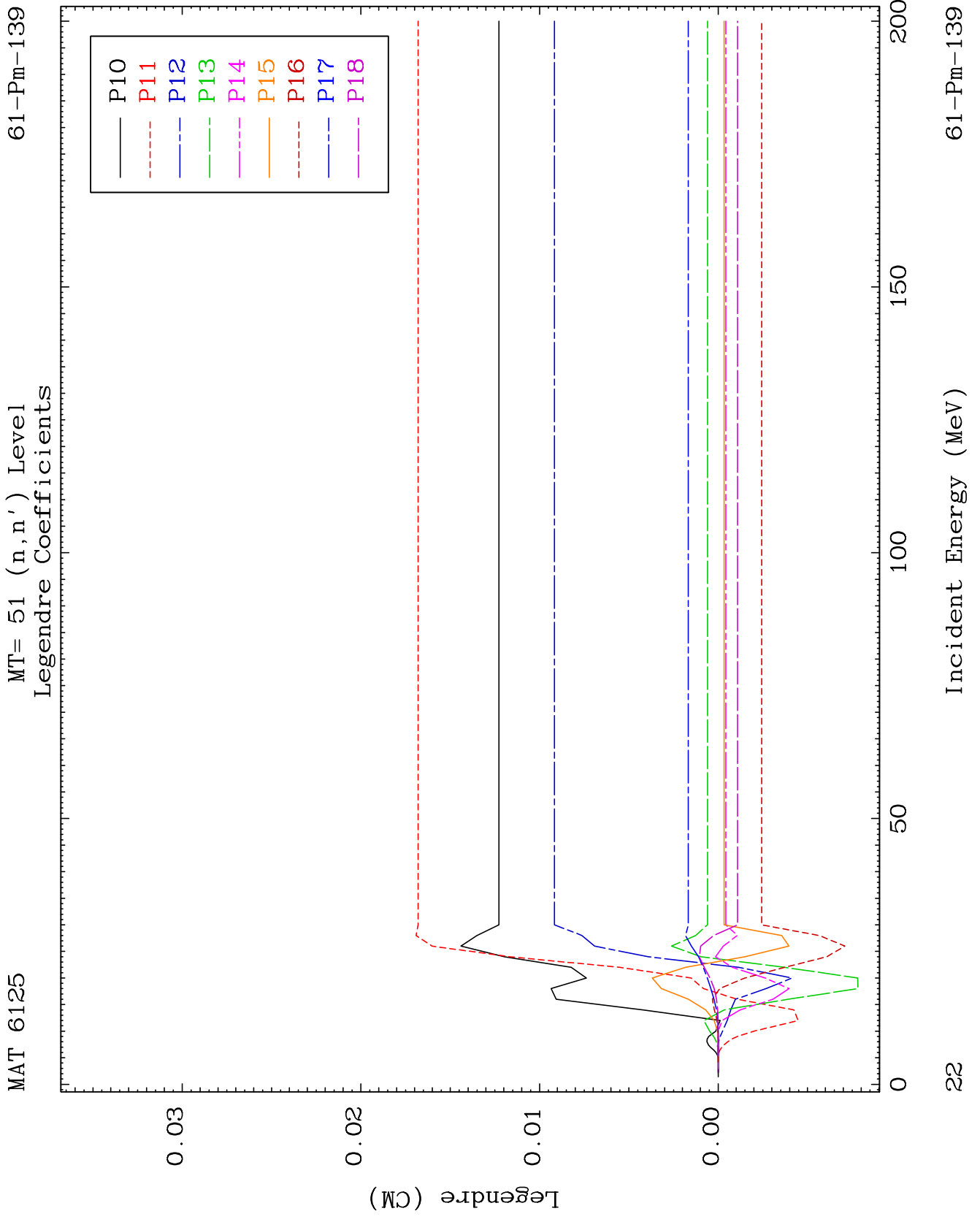
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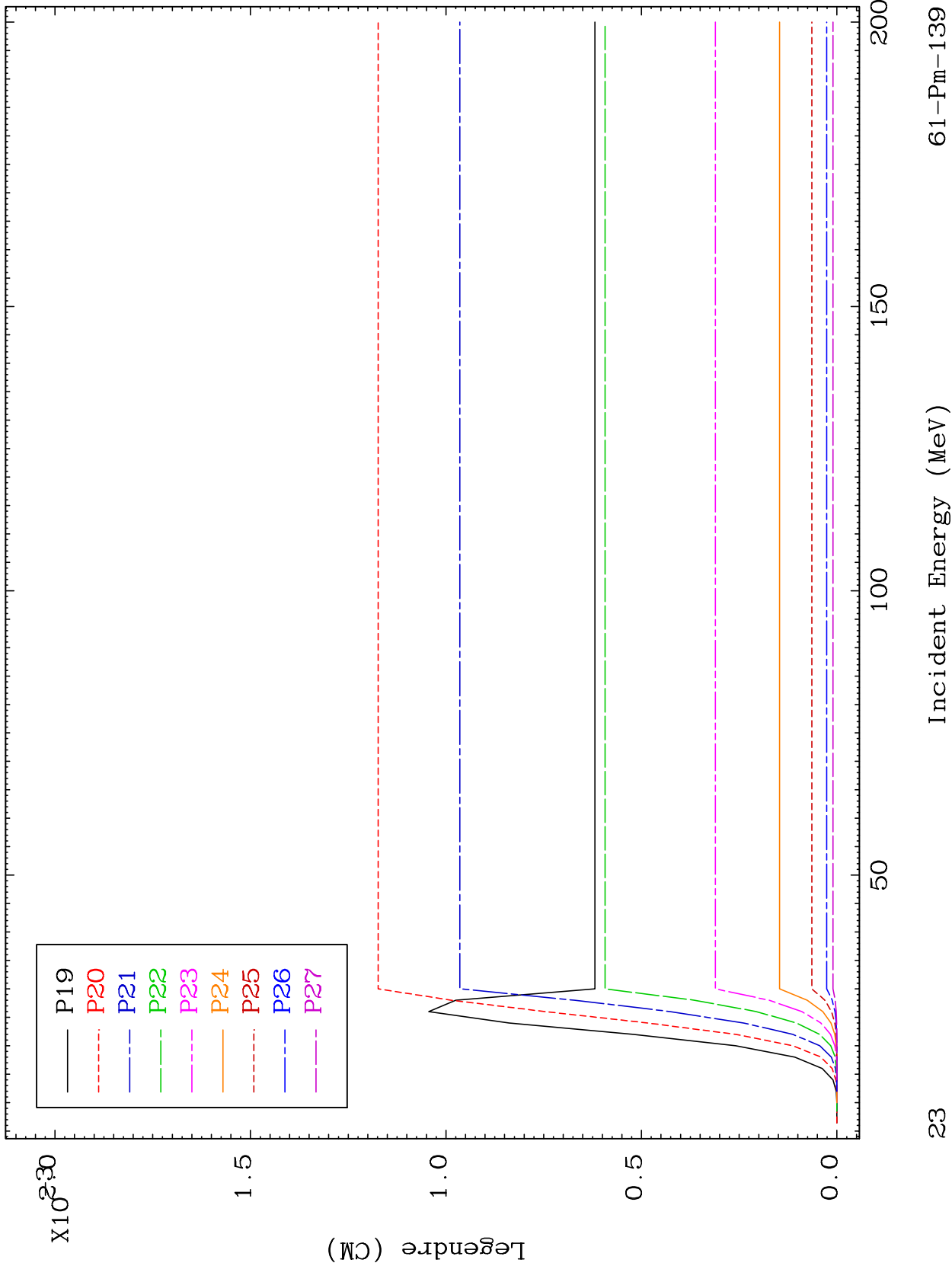


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Incident Energy (MeV)

61-Pm-139

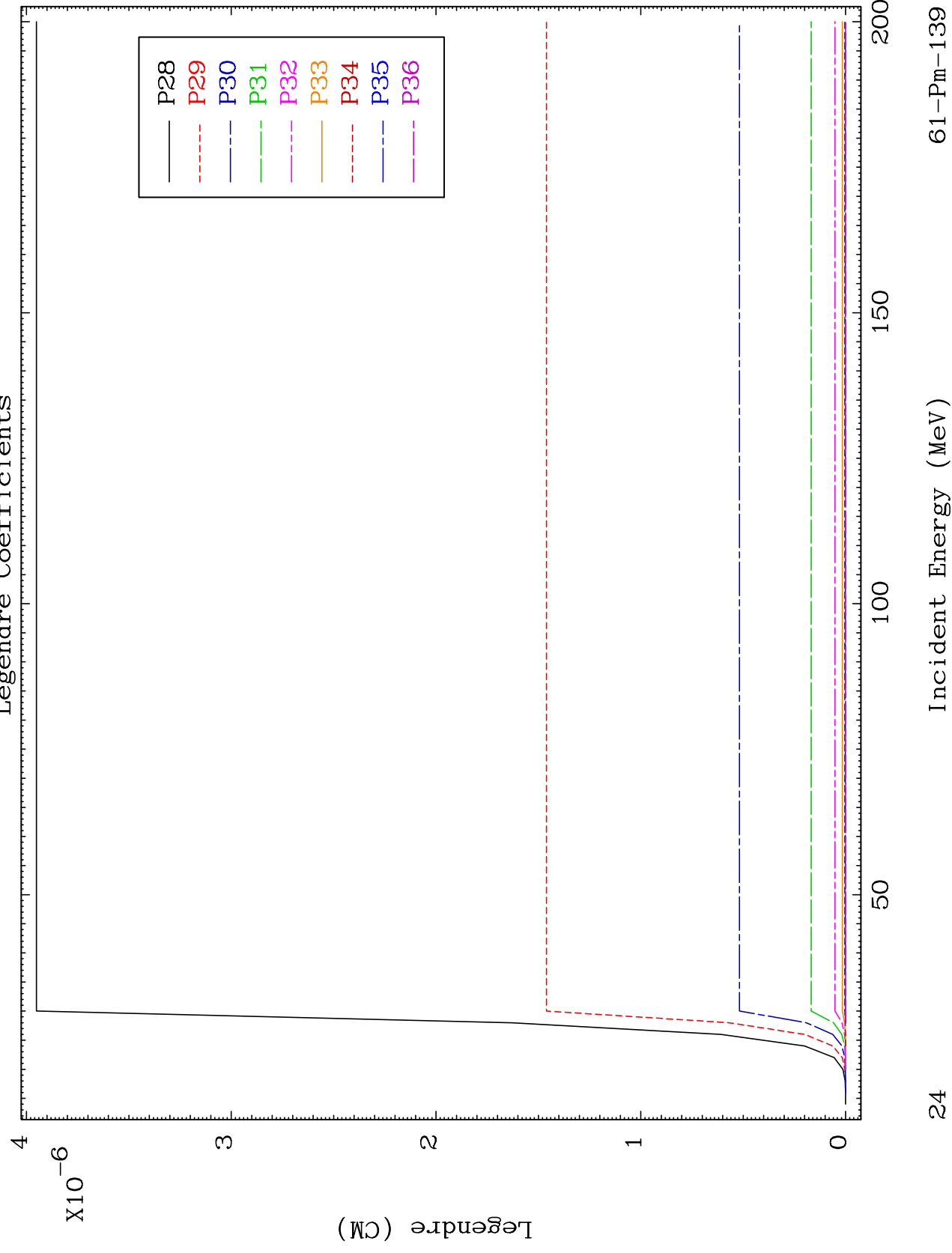




MAT 6125

MT= 51 (n,n') Level  
Legendre Coefficients

61-Pm-139

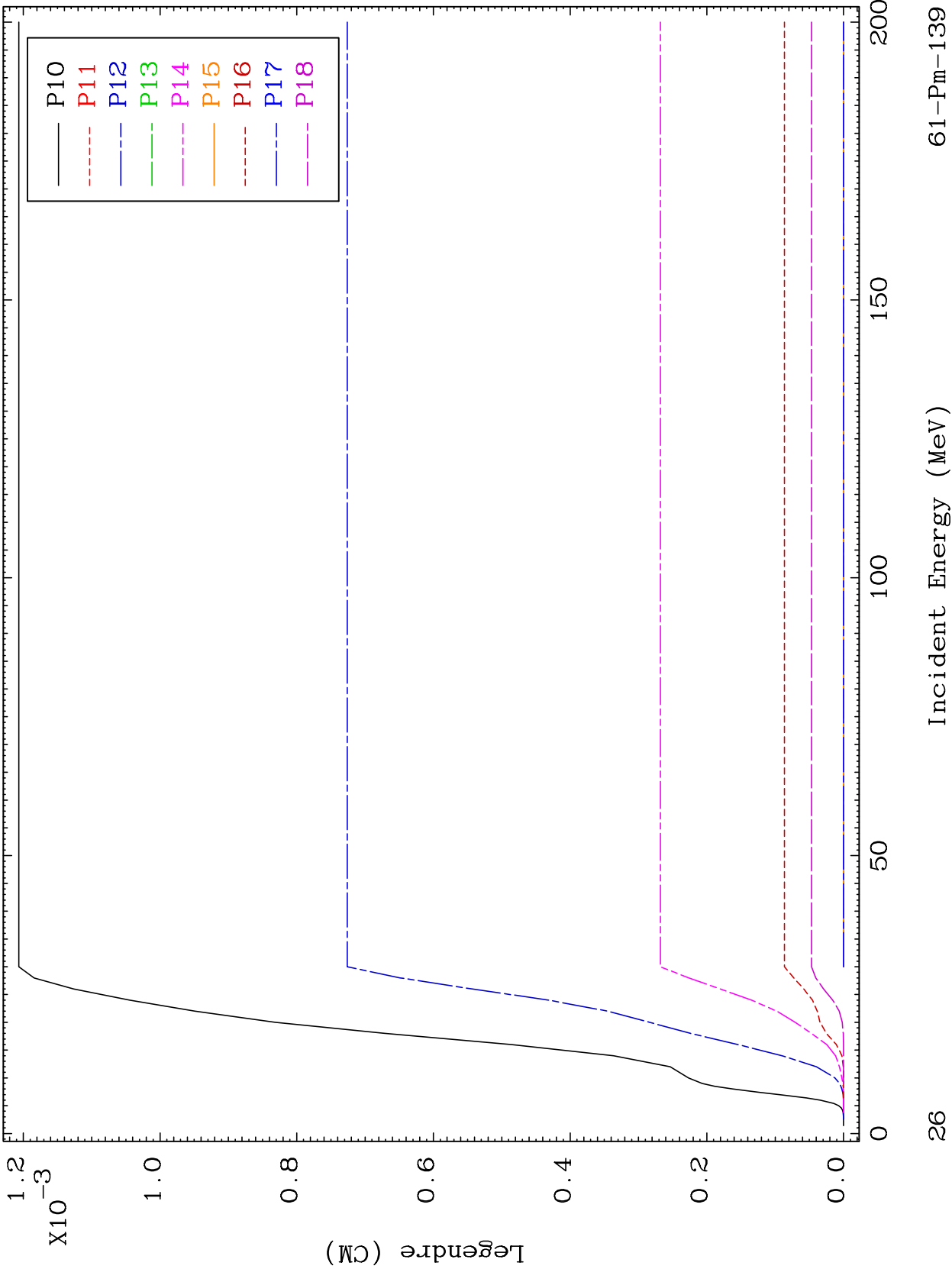


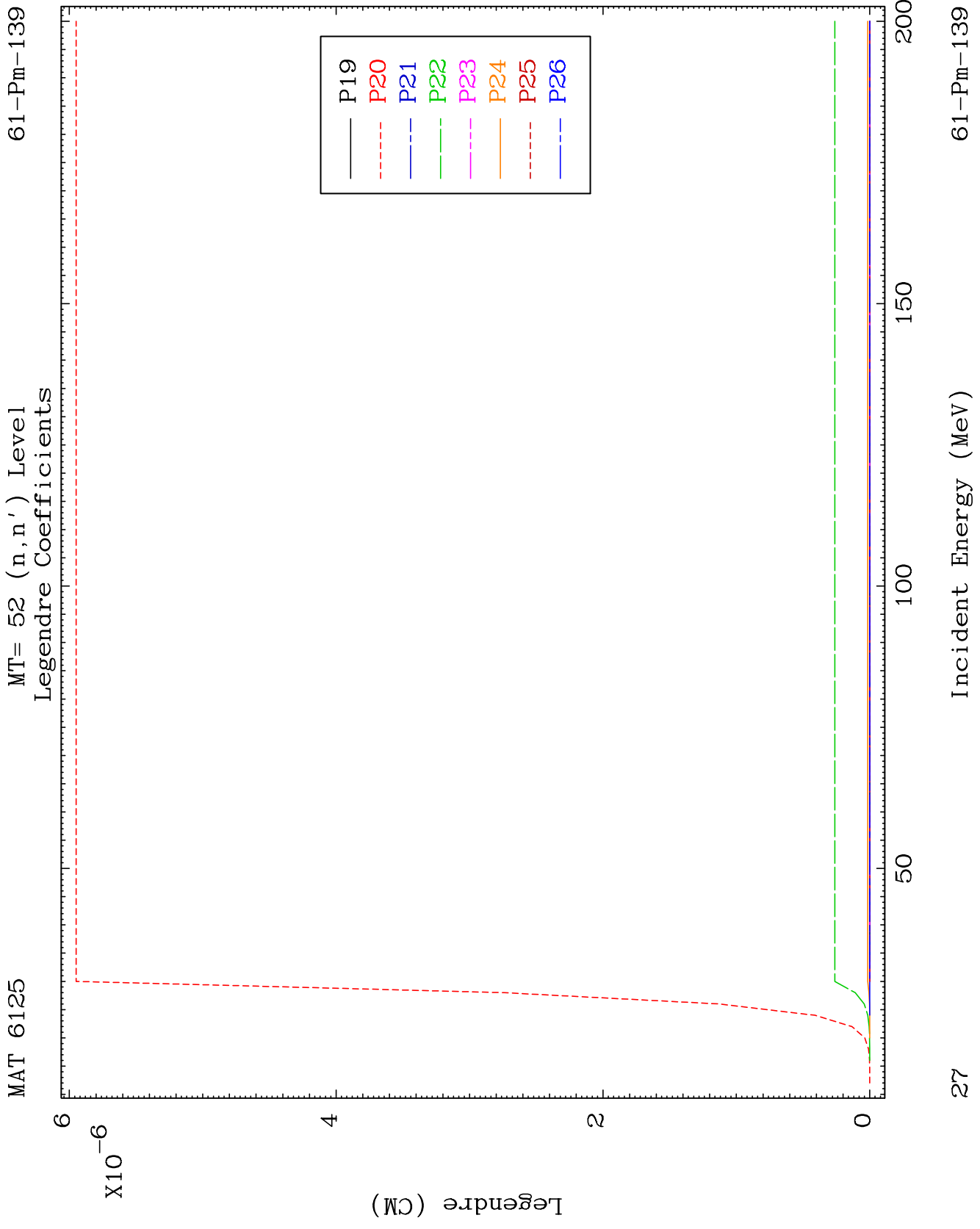
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Incident Energy (MeV)

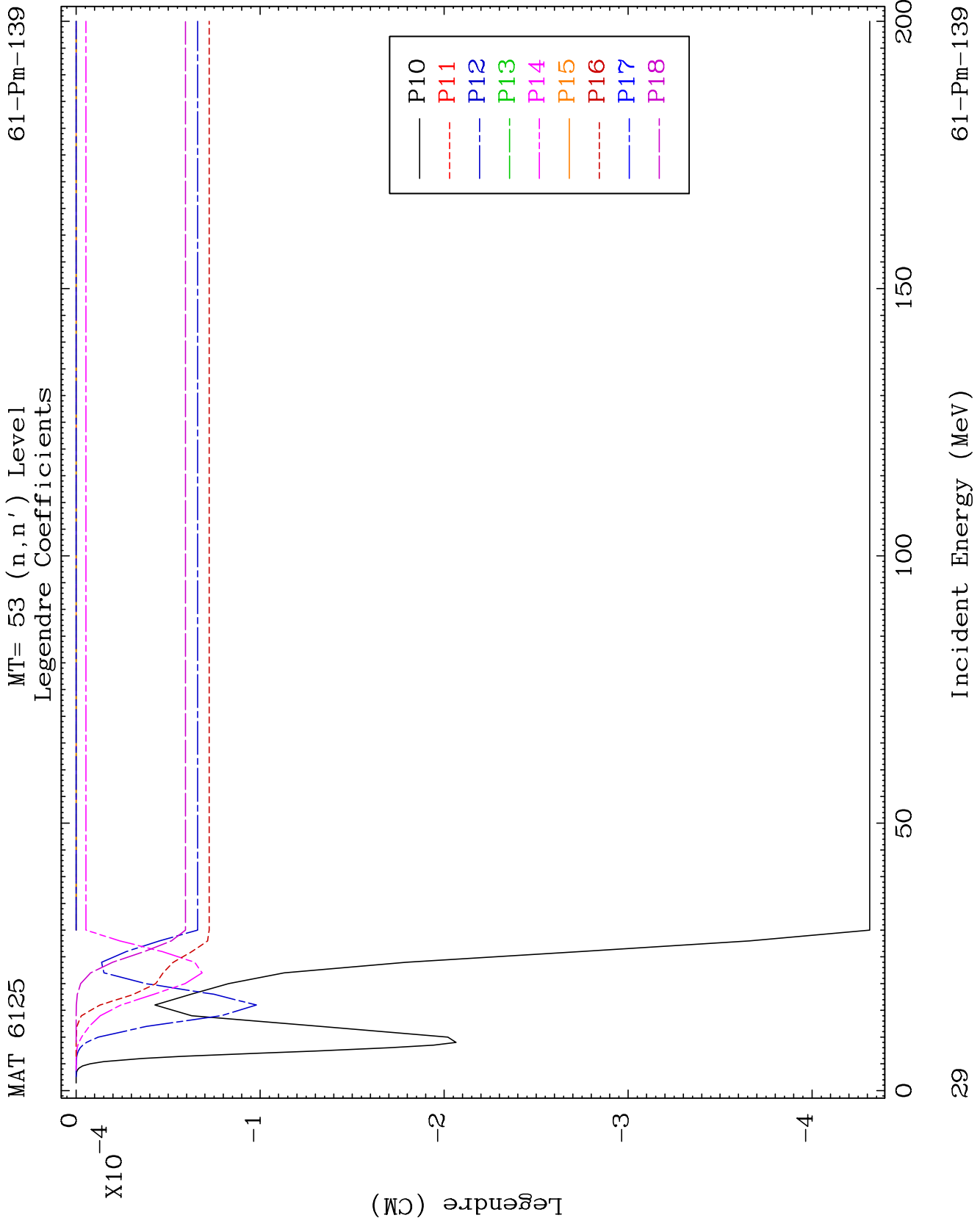
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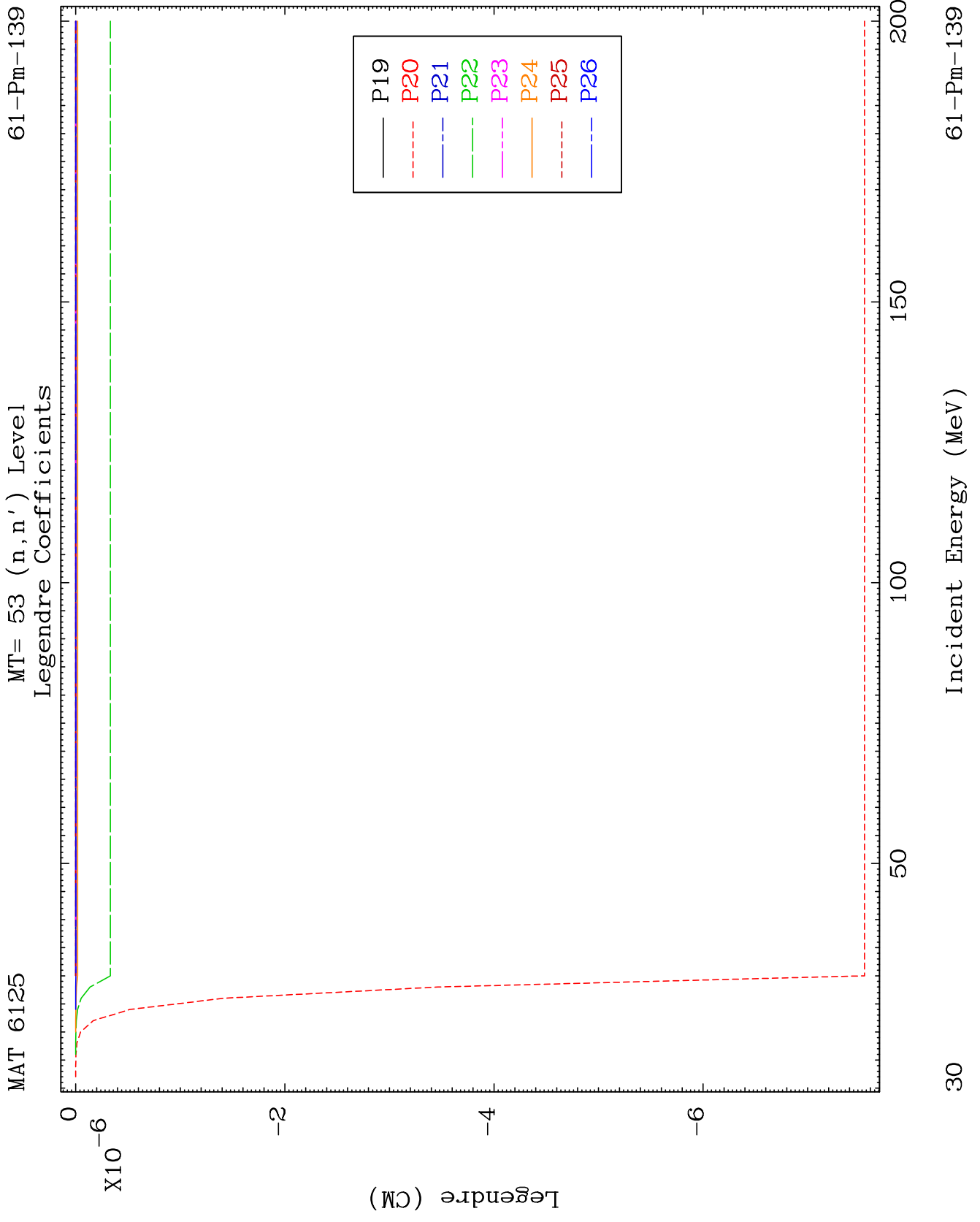




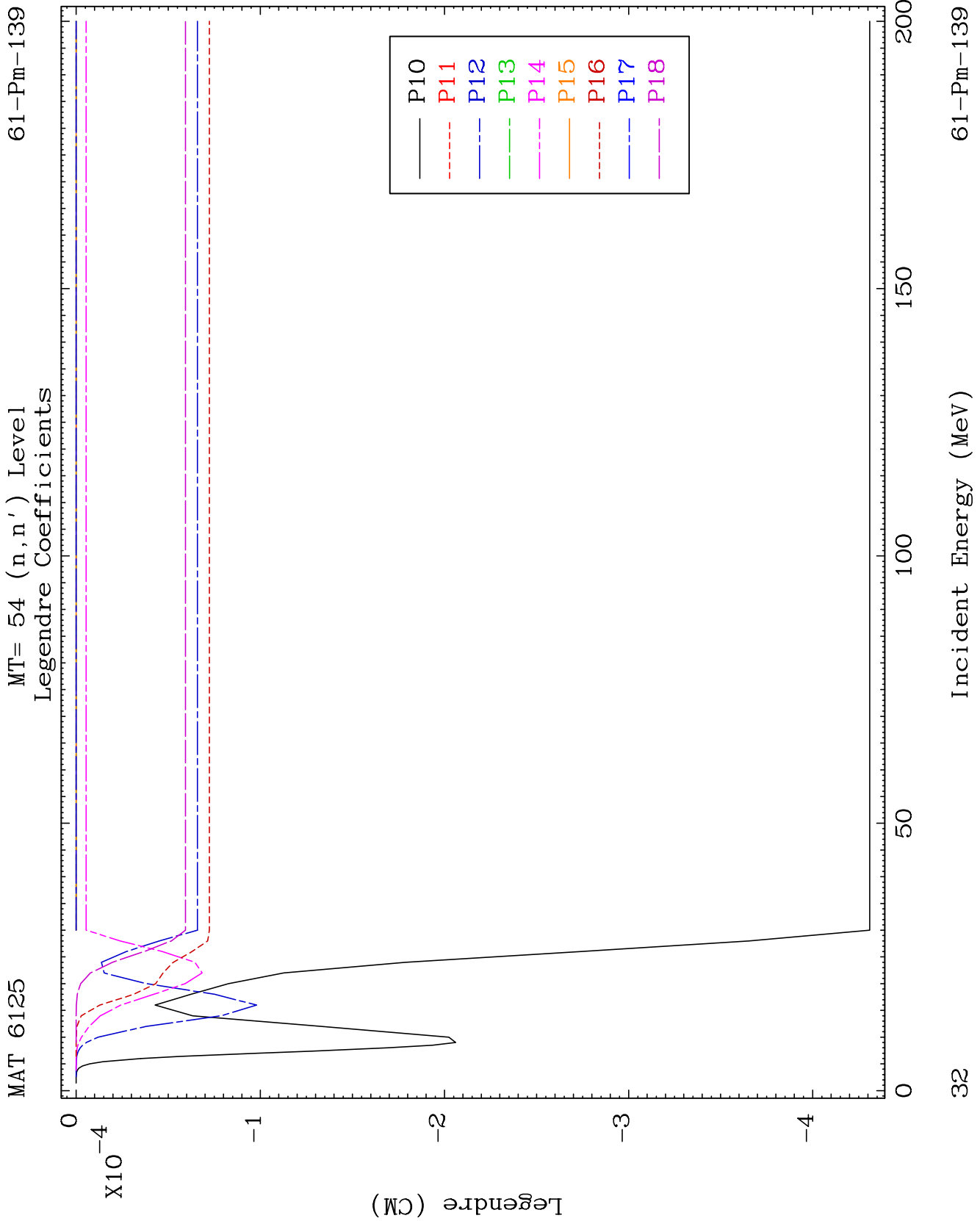


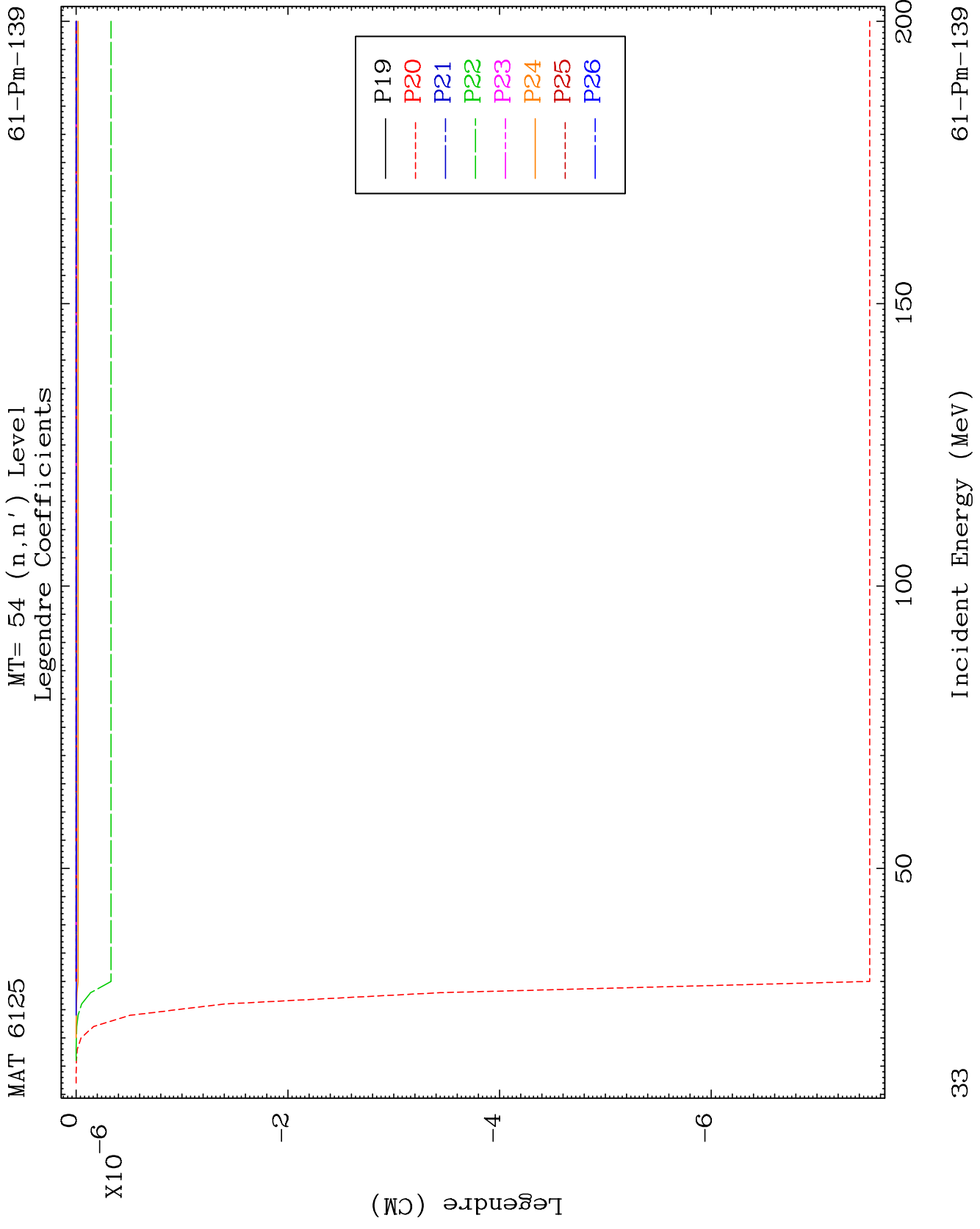








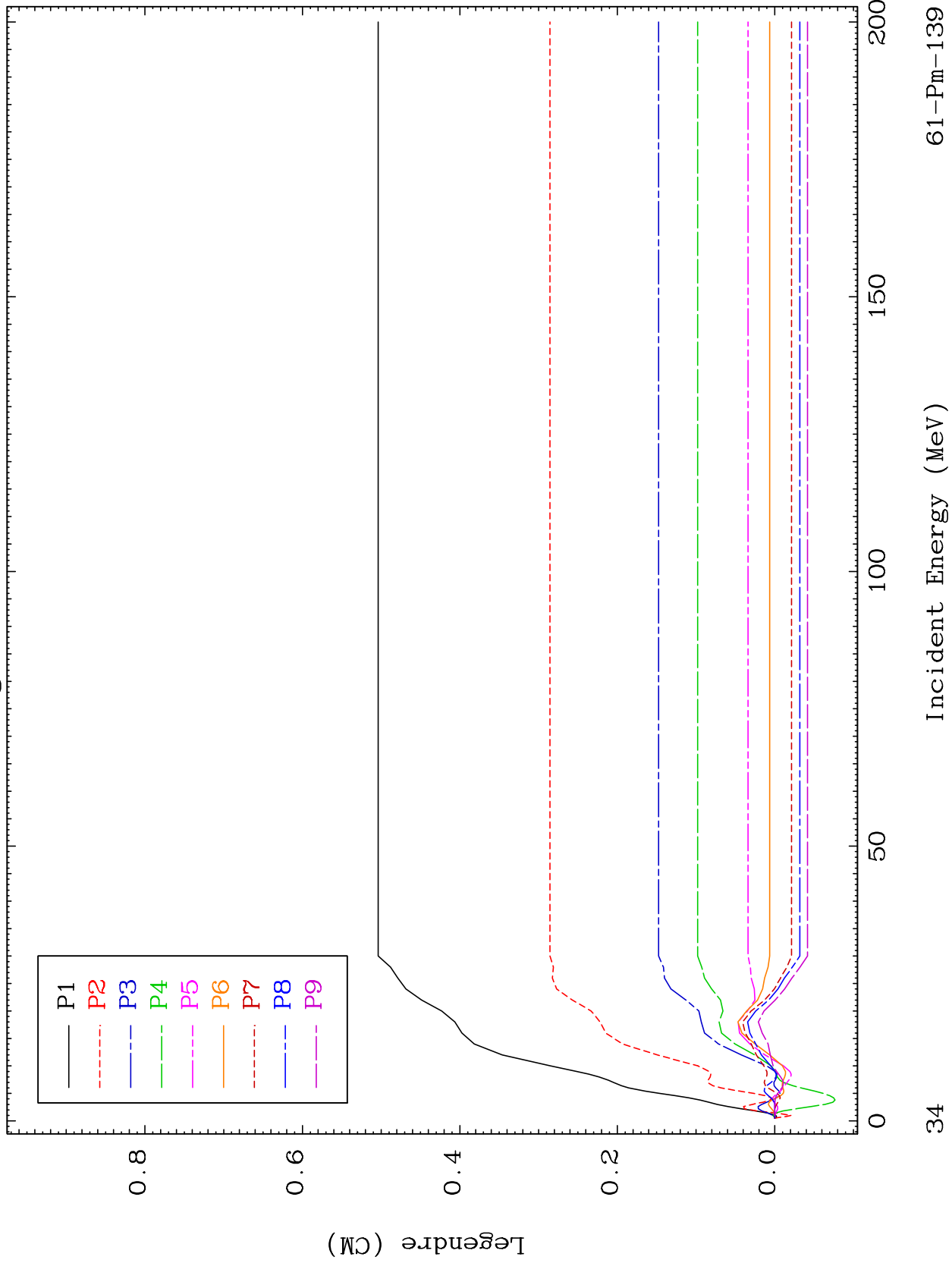




MAT 6125

MT= 55 (n,n') Level  
Legendre Coefficients

61-Pm-139



34

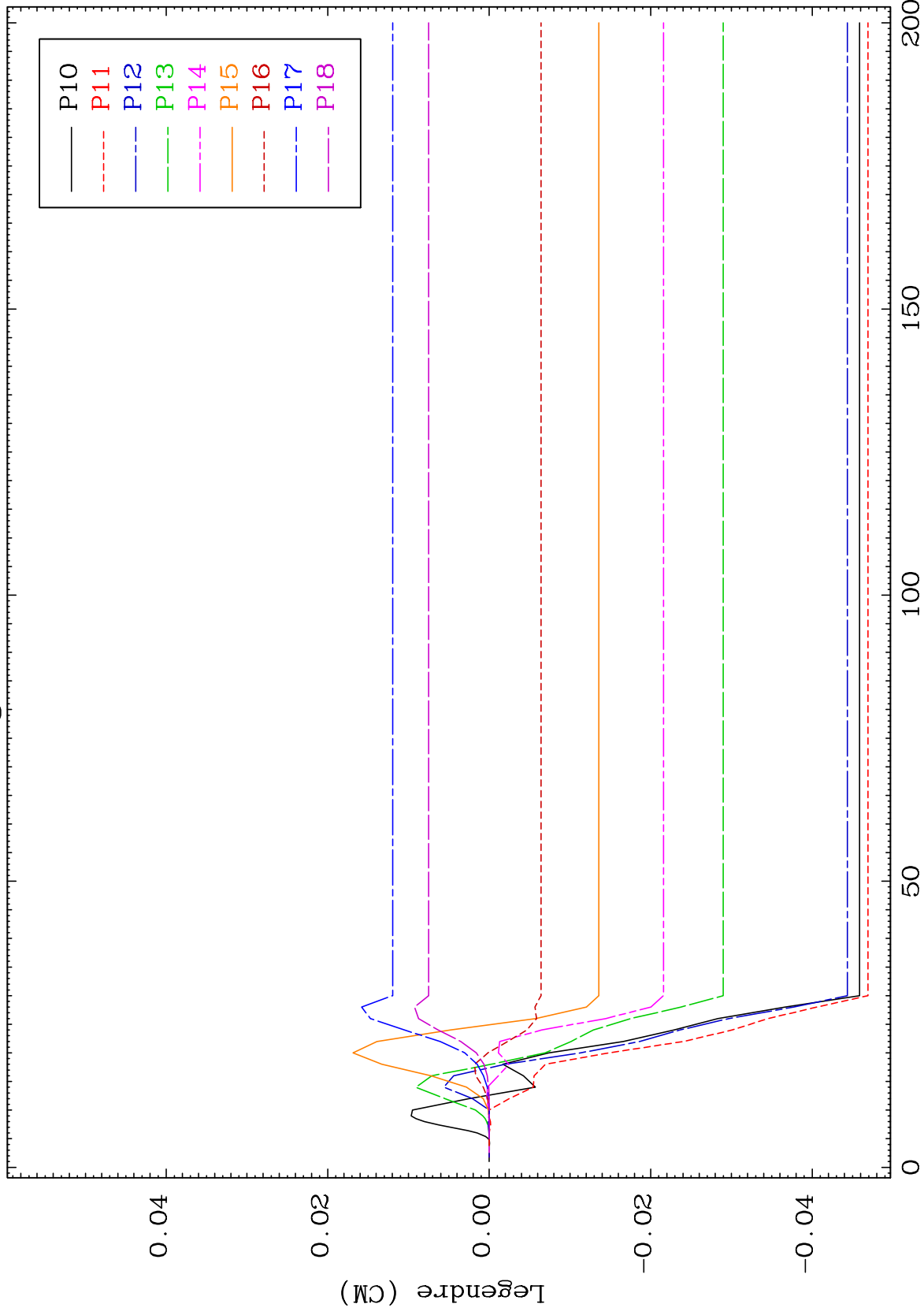
Incident Energy (MeV)

61-Pm-139

MAT 6125

MT= 55 (n,n') Level  
Legendre Coefficients

61-Pm-139



35

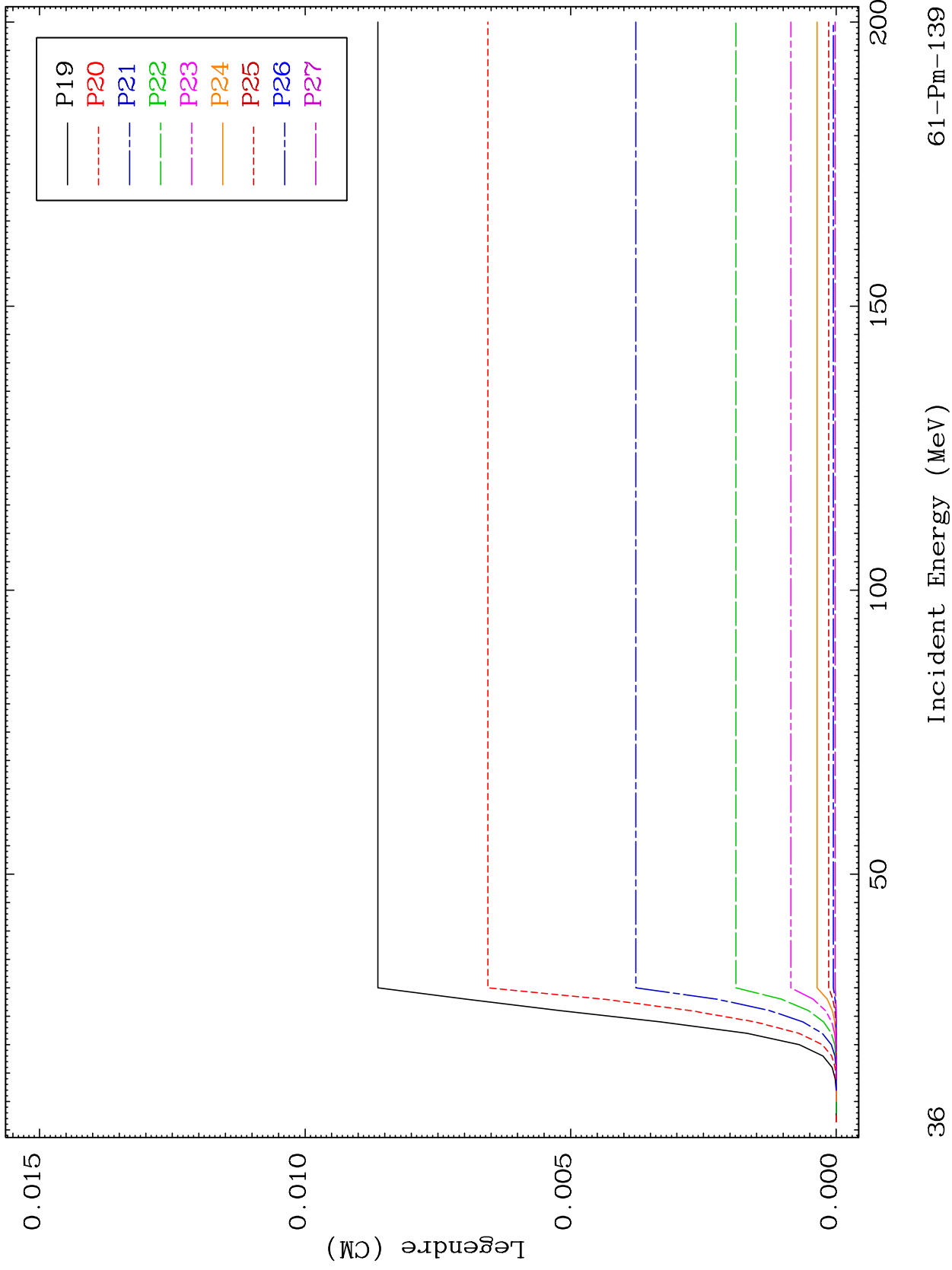
Incident Energy (MeV)

61-Pm-139

MAT 6125

MT= 55 (n,n') Level  
Legendre Coefficients

61-Pm-139



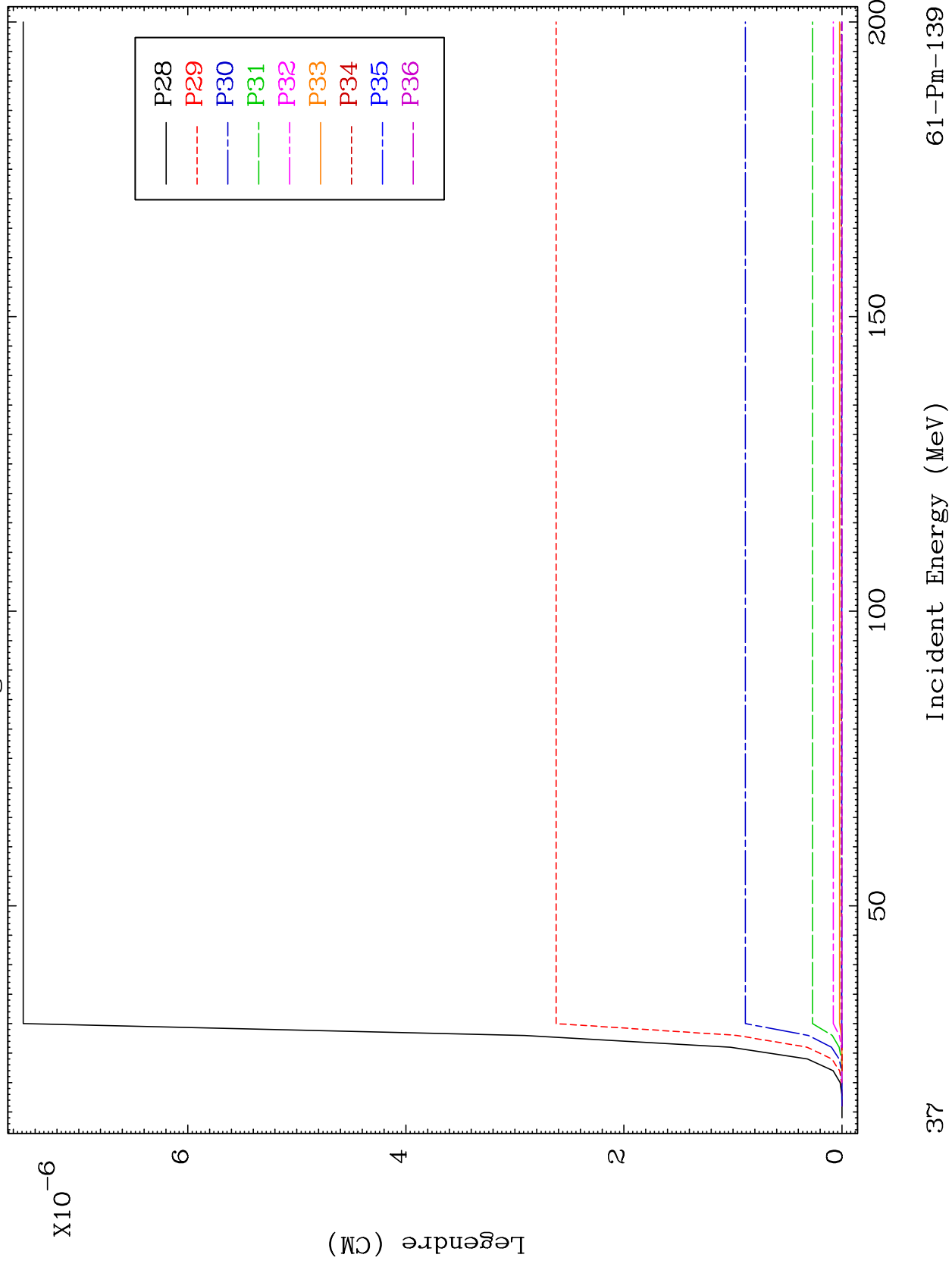
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61-Pm-139

MAT 6125

MT= 55 (n,n') Level  
Legendre Coefficients

61-Pm-139

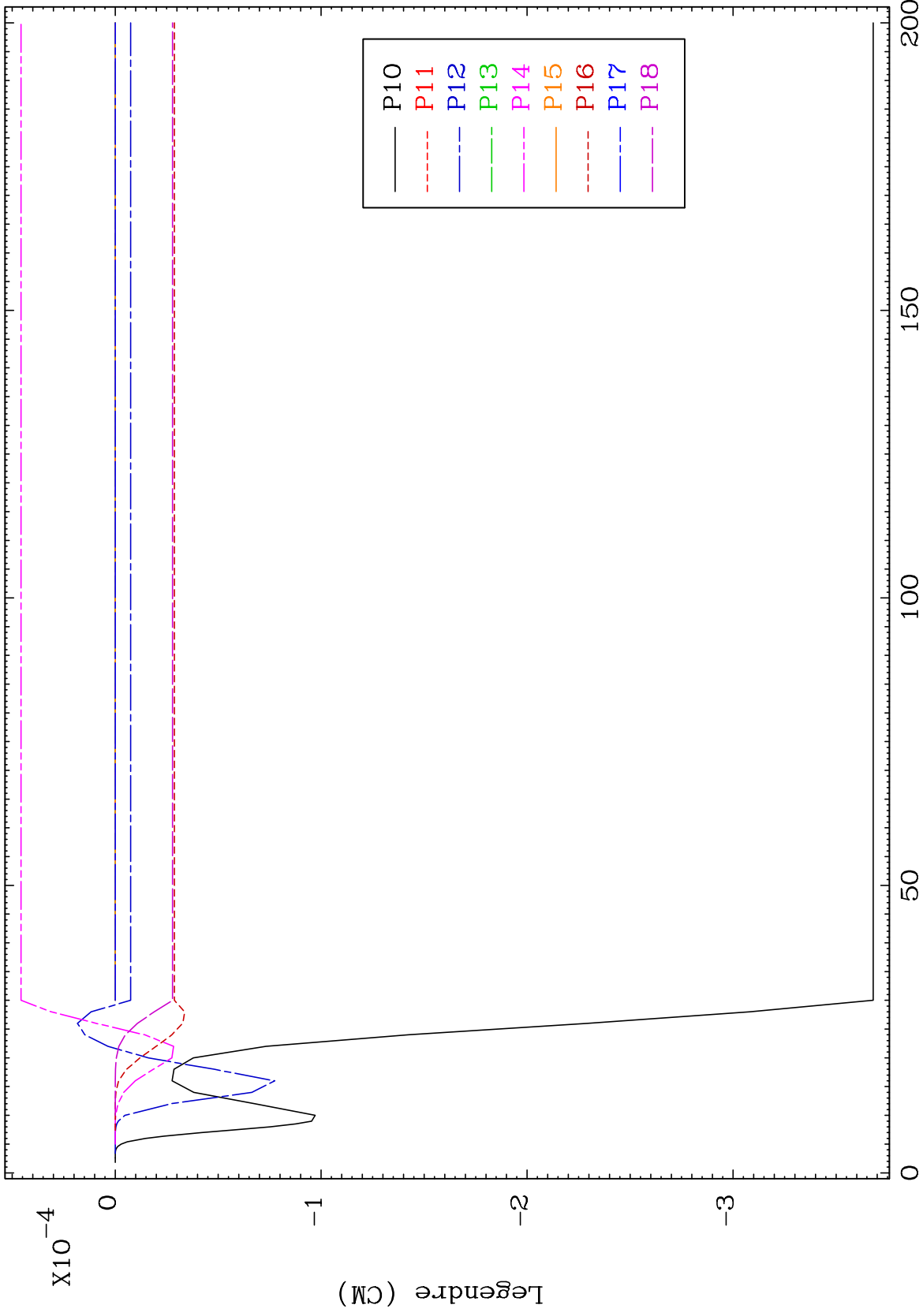




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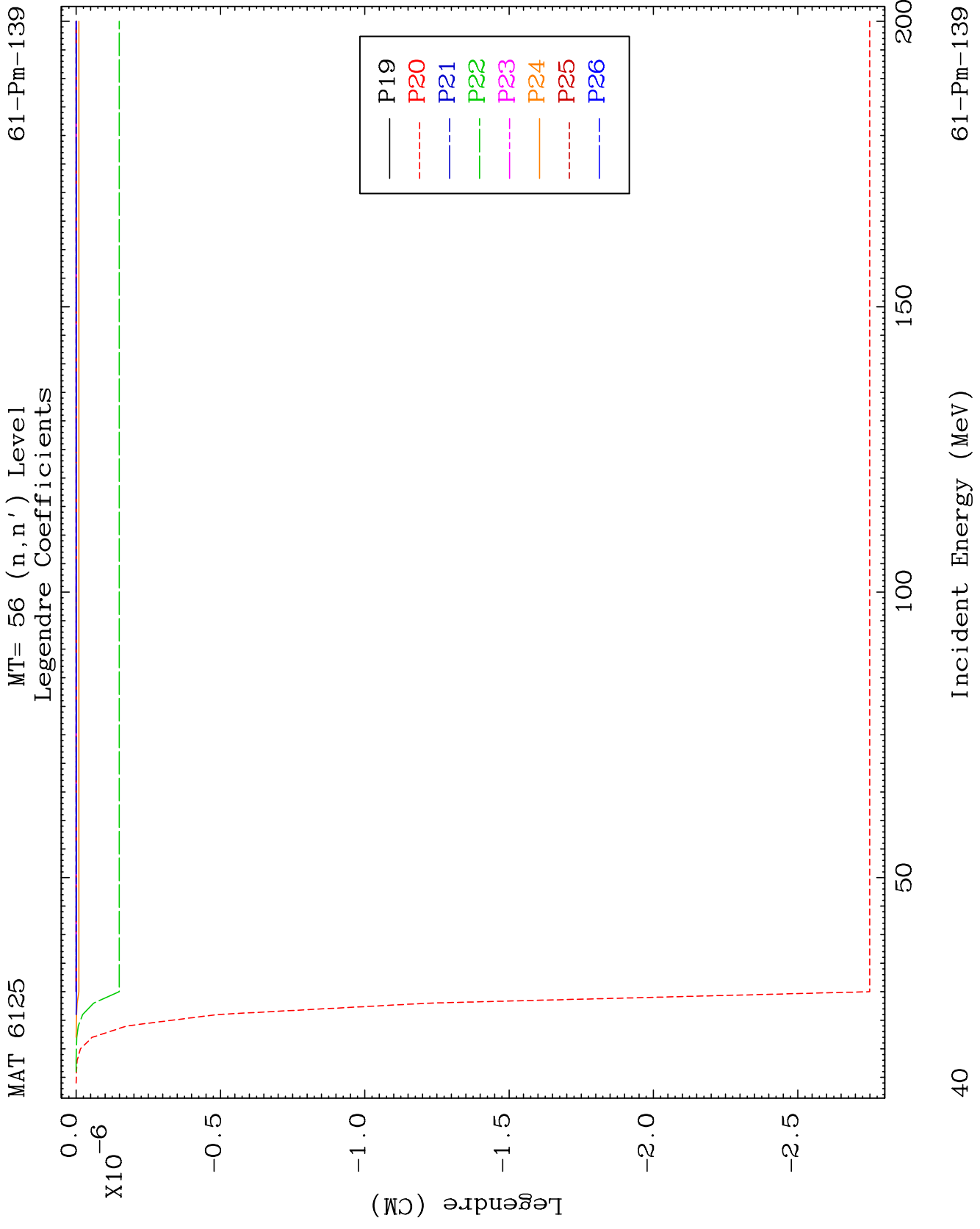
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Legendre Coefficients

61-Pm-139



39

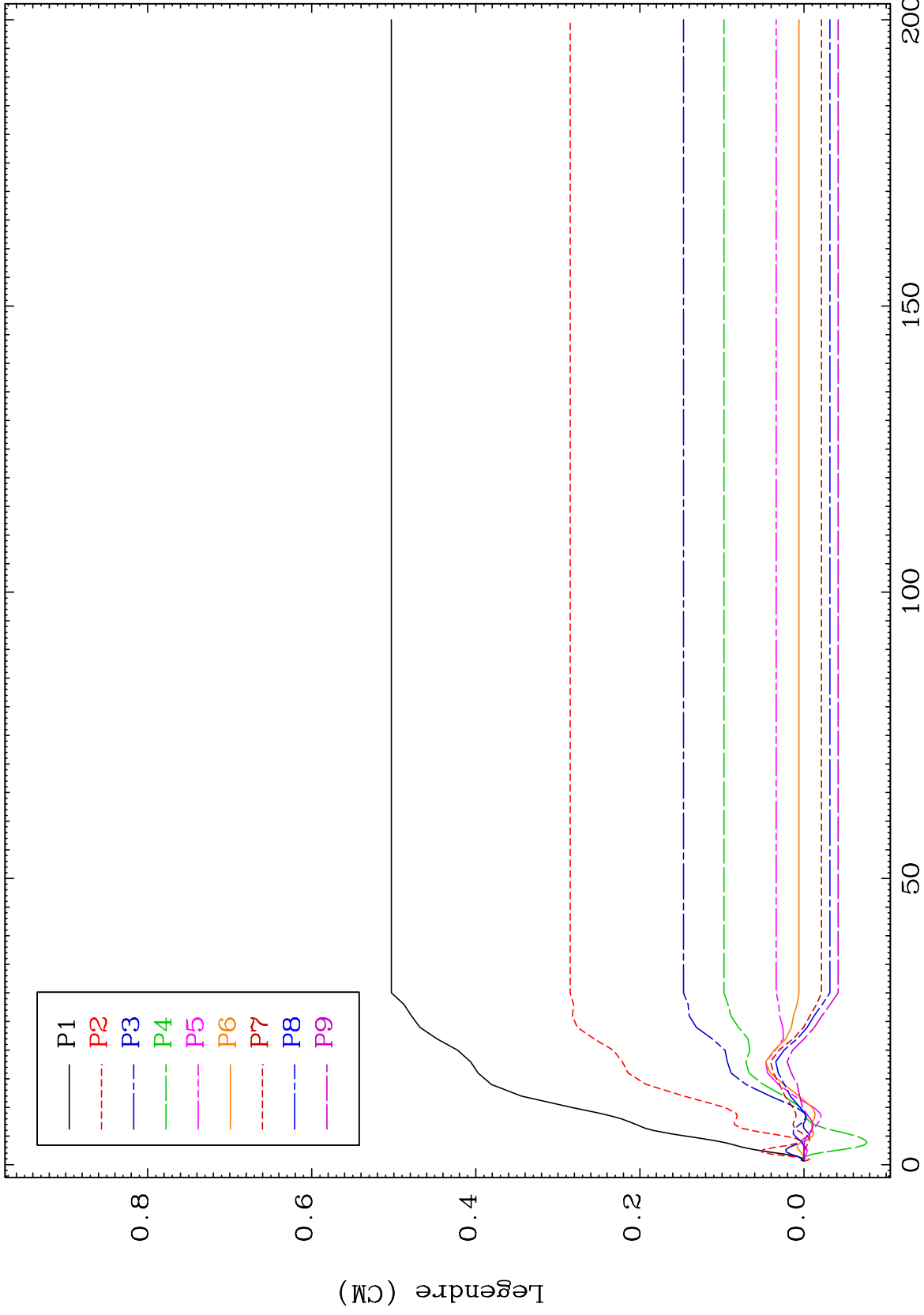
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MAT 6125

MT= 57 (n,n') Level  
Legendre Coefficients

61-Pm-139



41

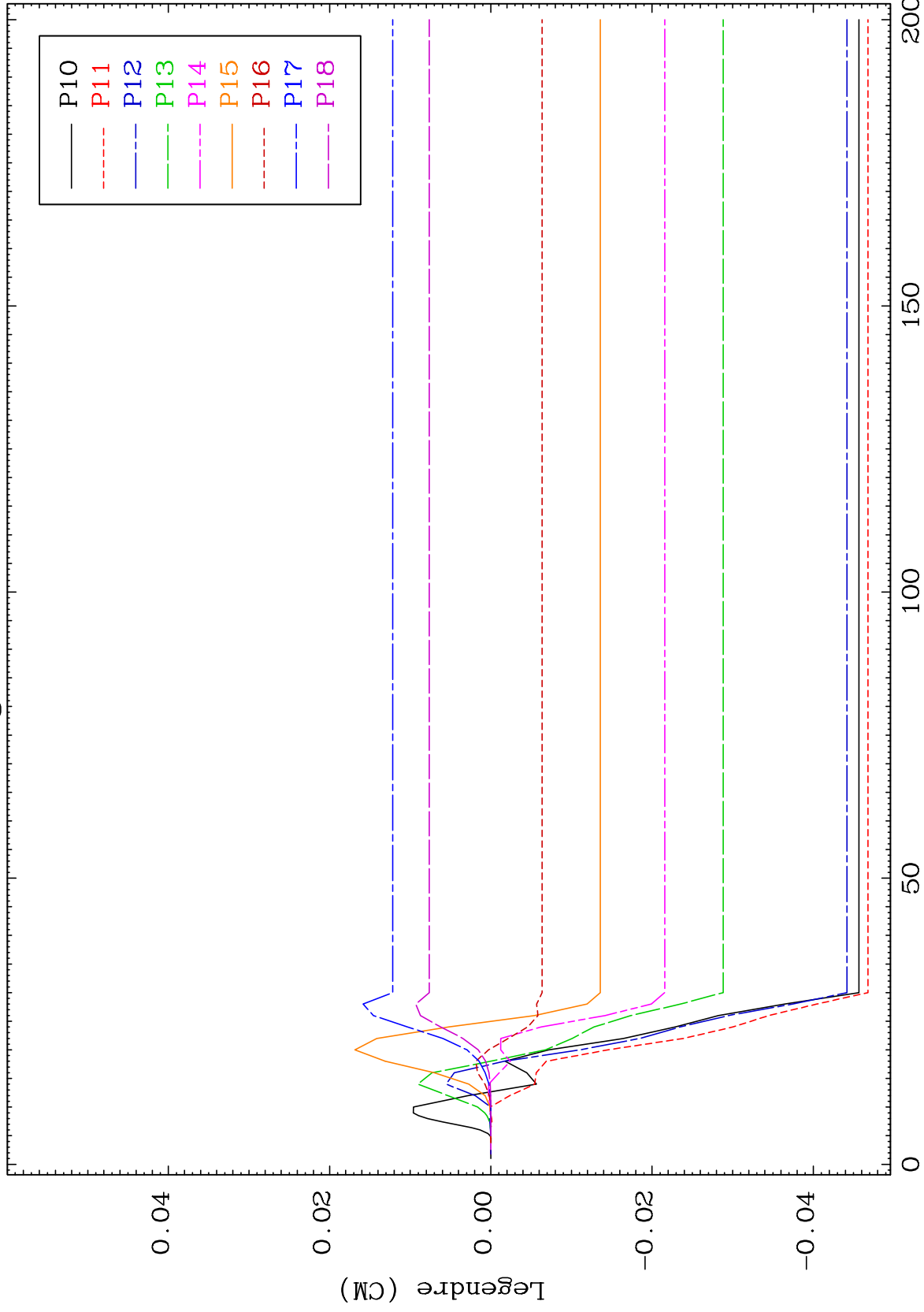
Incident Energy (MeV)

61-Pm-139

MAT 6125

MT= 57 (n,n') Level  
Legendre Coefficients

61-Pm-139



42

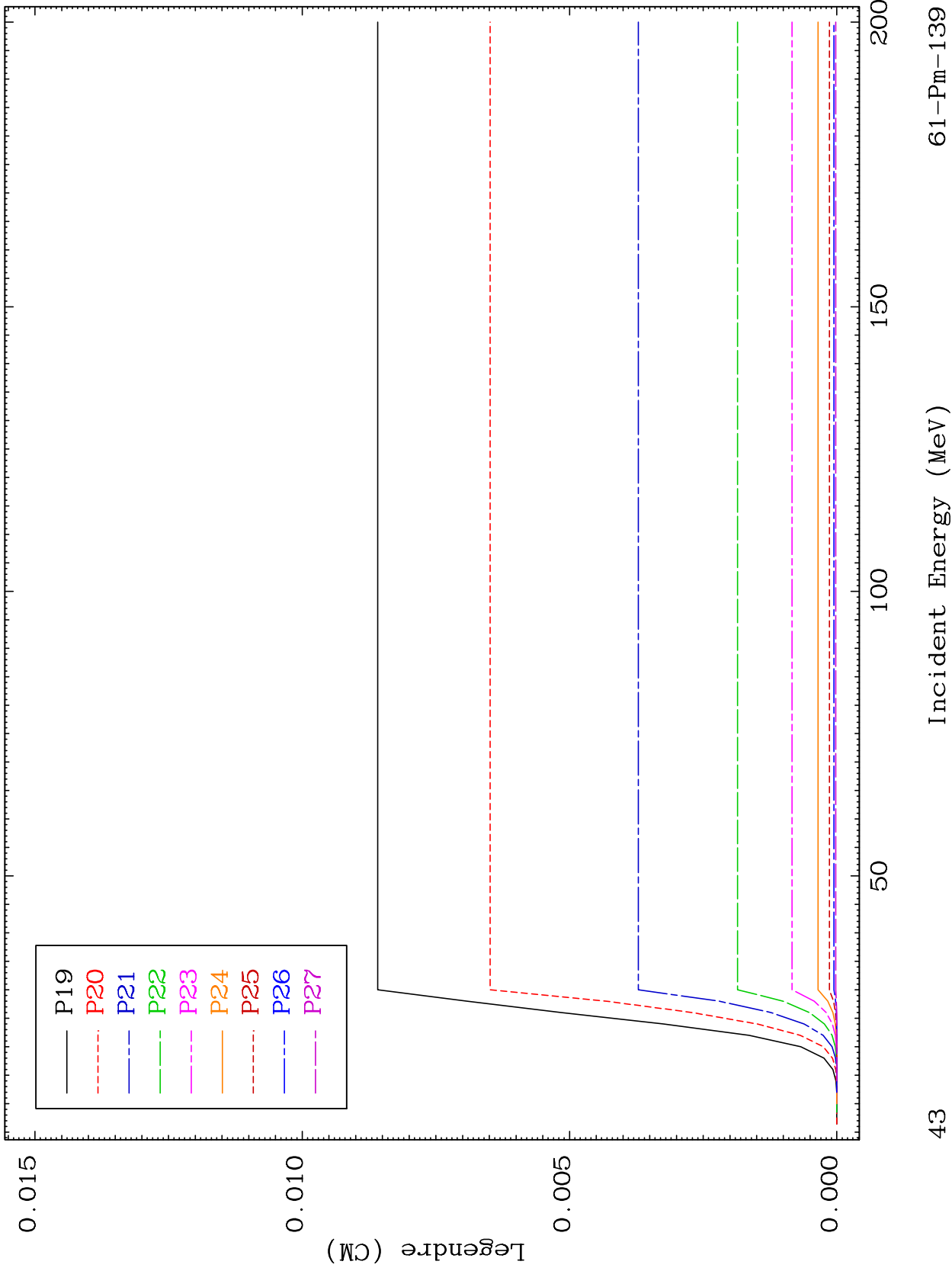
Incident Energy (MeV)

61-Pm-139

MAT 6125

MT= 57 (n,n') Level  
Legendre Coefficients

61-Pm-139



43

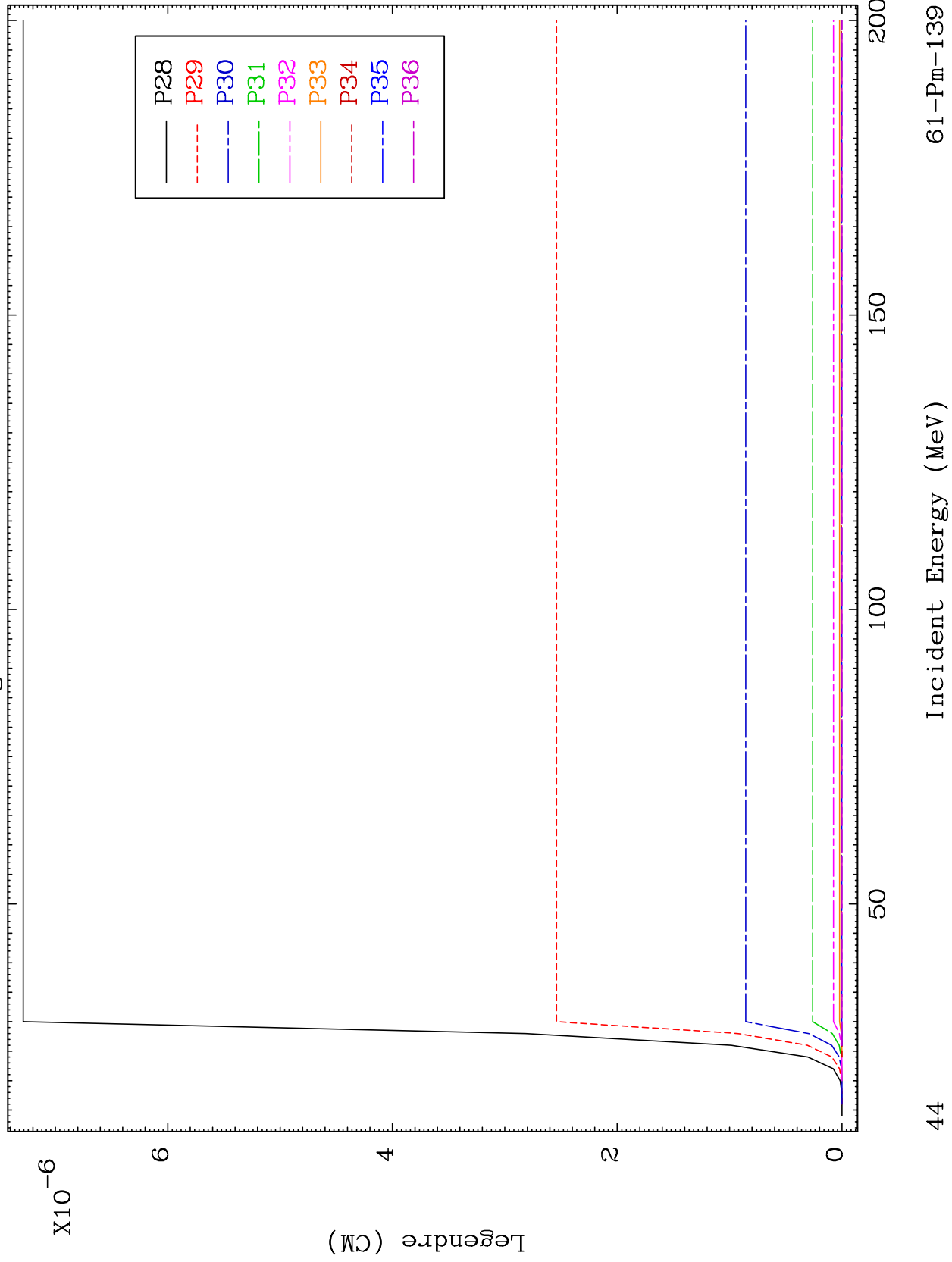
Incident Energy (MeV)

61-Pm-139

MAT 6125

MT= 57 (n,n') Level  
Legendre Coefficients

61-Pm-139



44

Incident Energy (MeV)

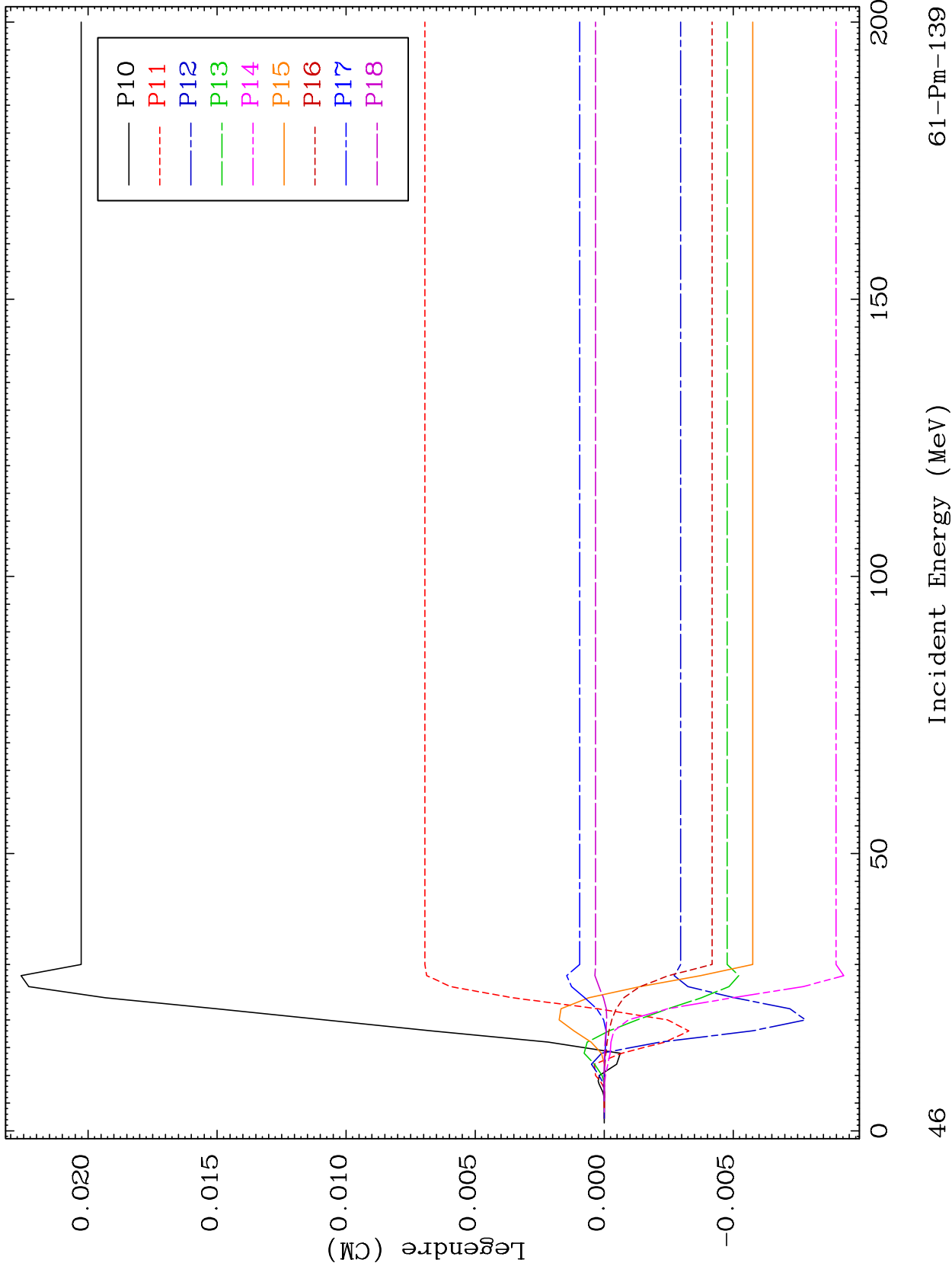
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MAT 6125

MT= 58 (n,n') Level  
Legendre Coefficients

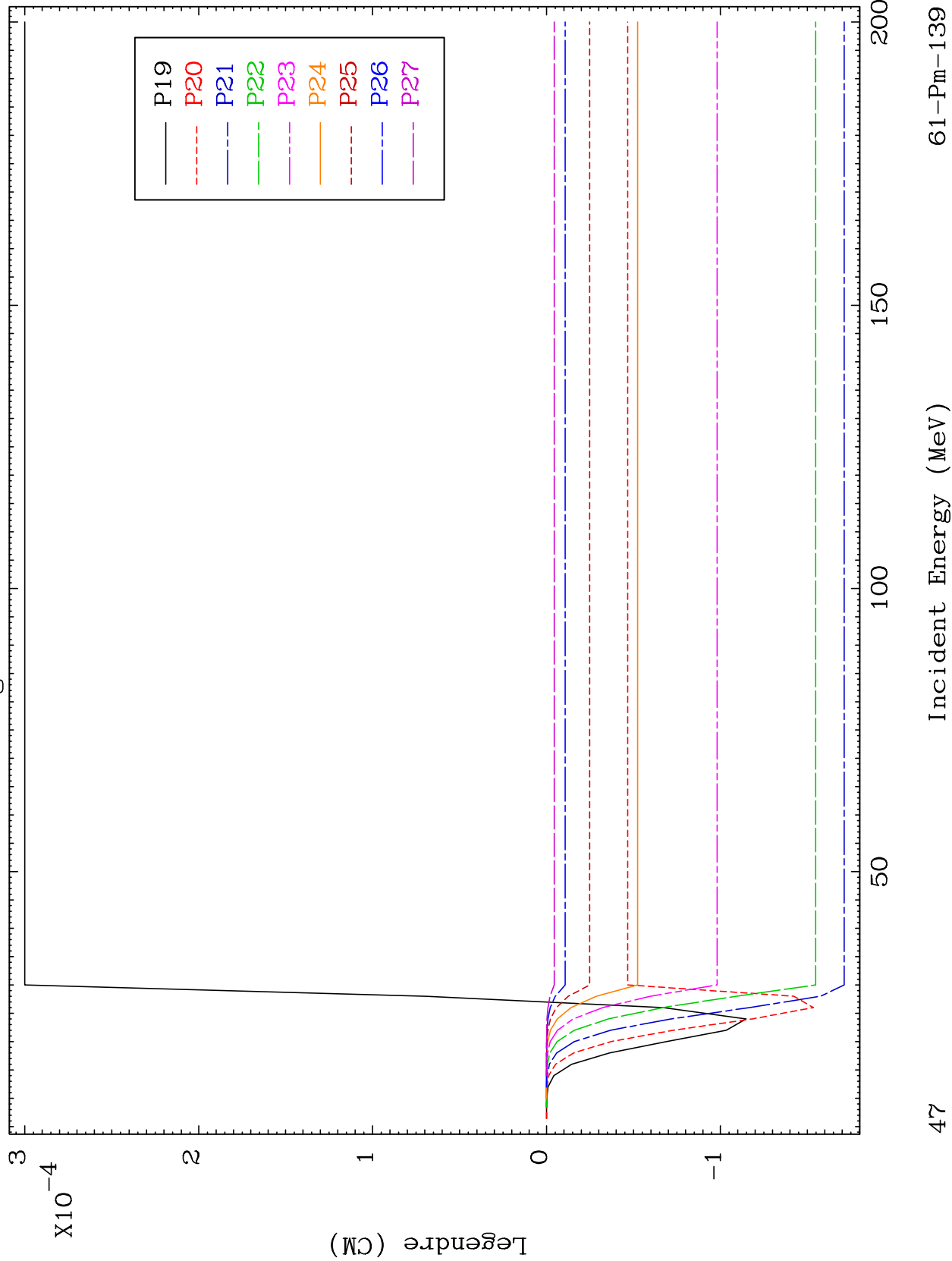
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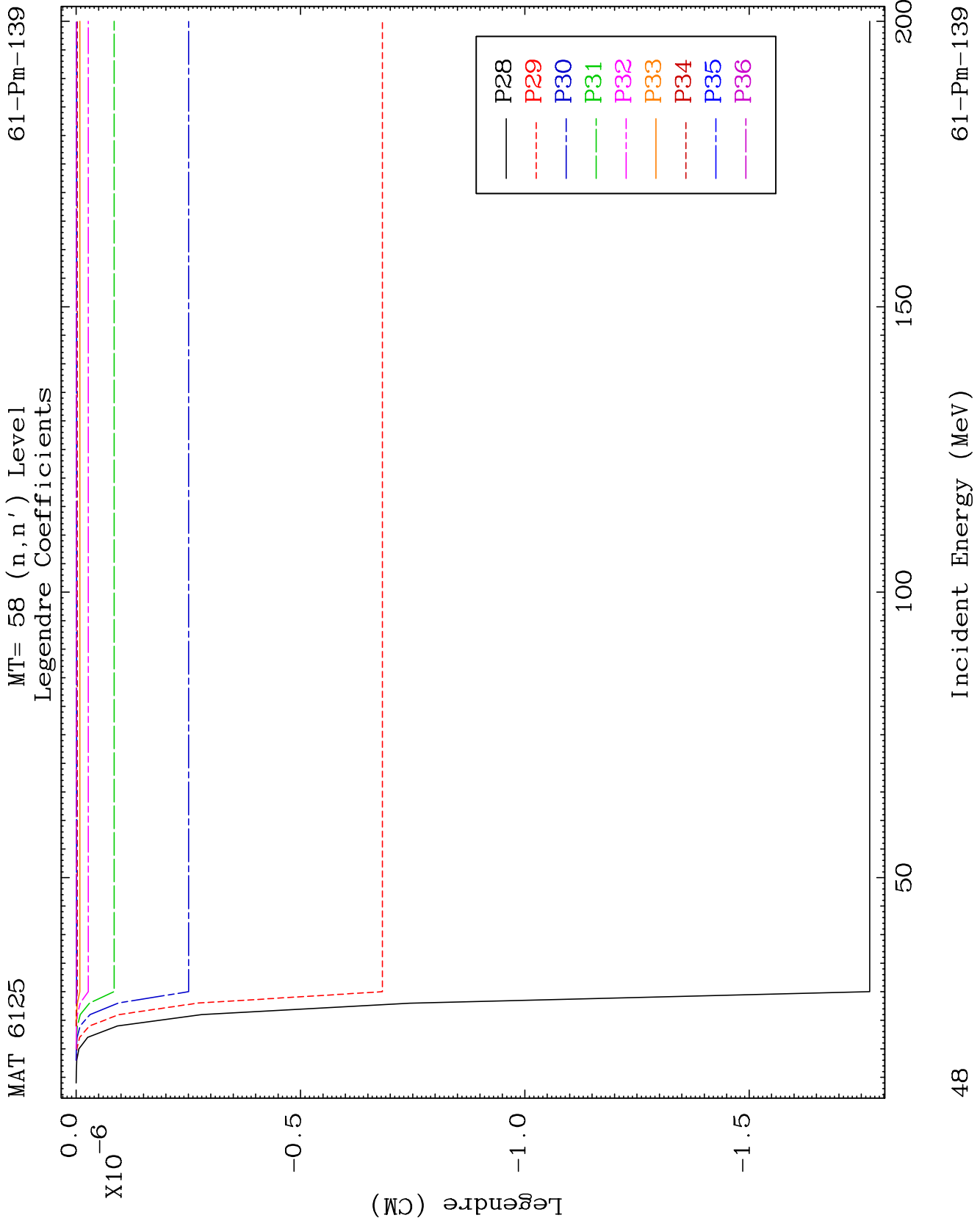


46

Incident Energy (MeV)

61-Pm-139

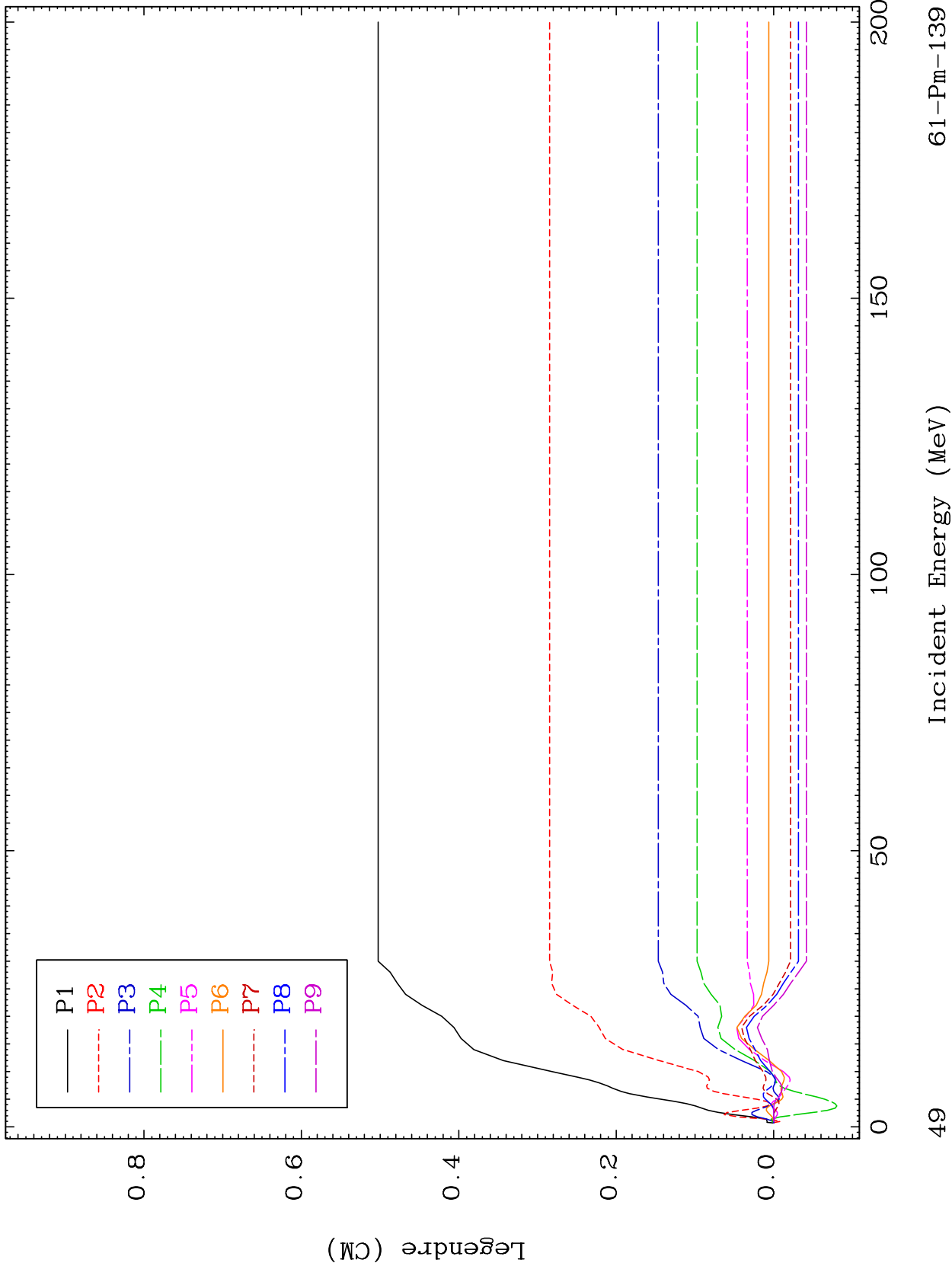


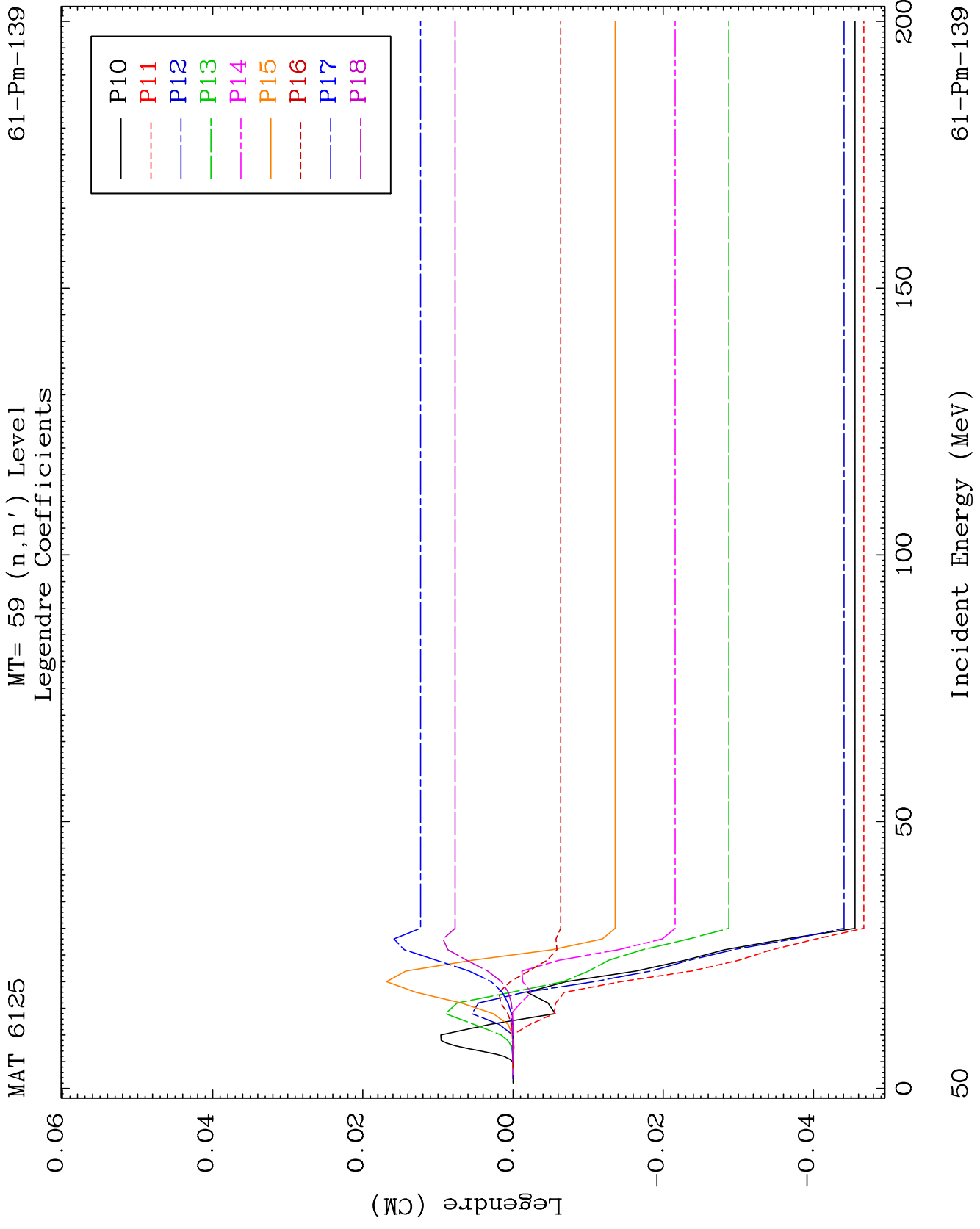


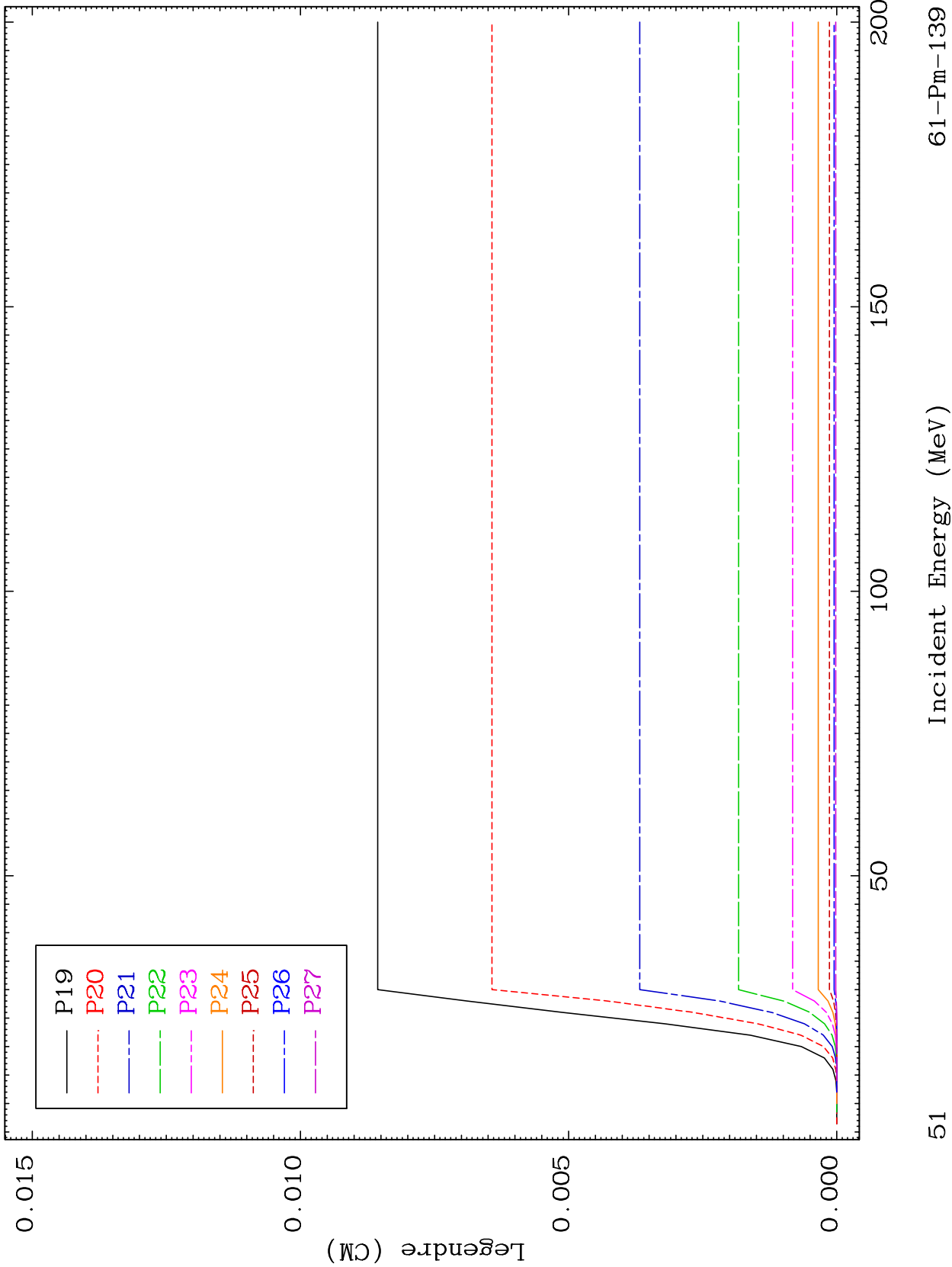
MAT 6125

MT= 59 (n,n') Level Legendre Coefficients

61-Pm-139



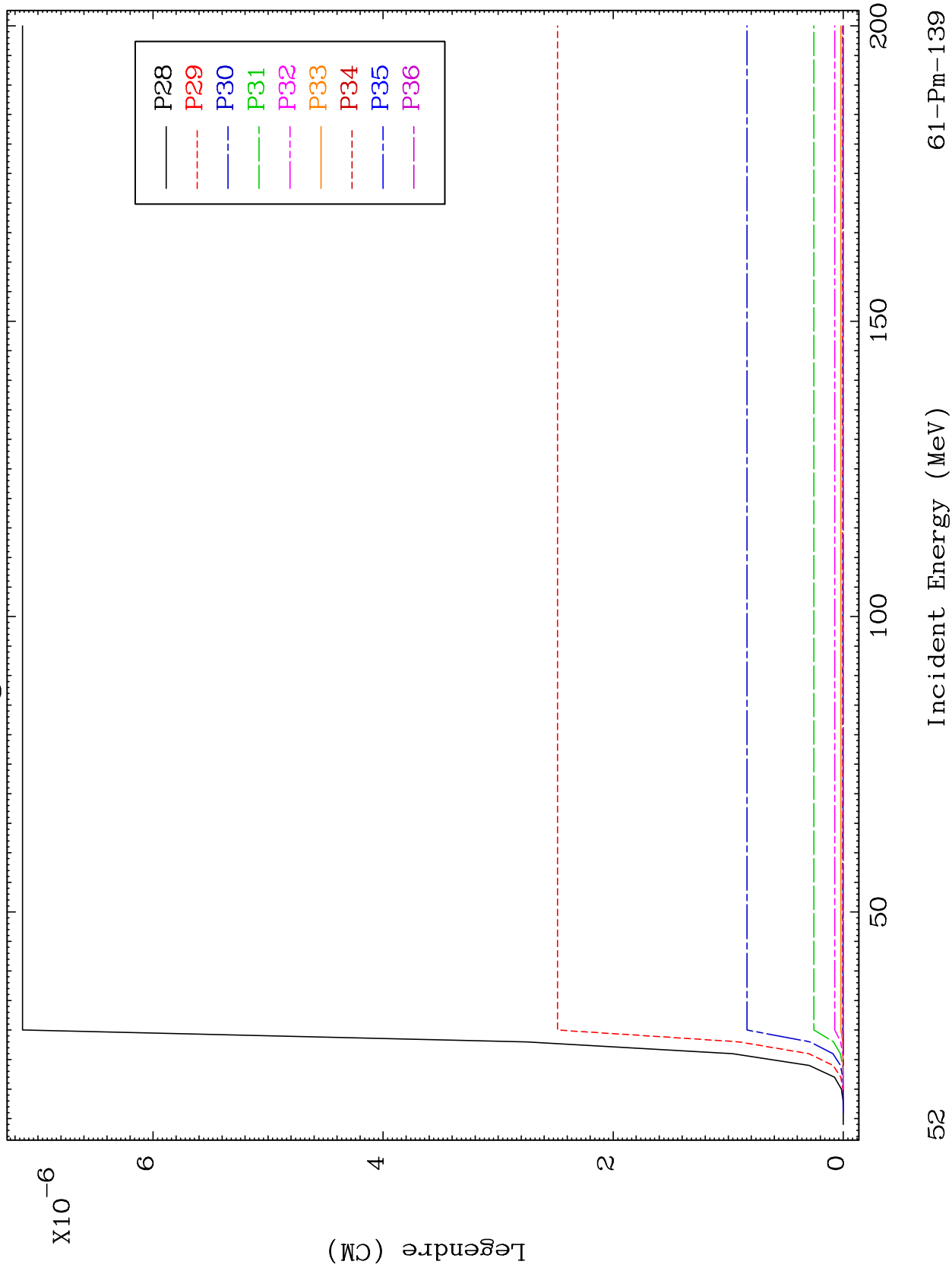




MAT 6125

MT= 59 (n,n') Level  
Legendre Coefficients

61-Pm-139



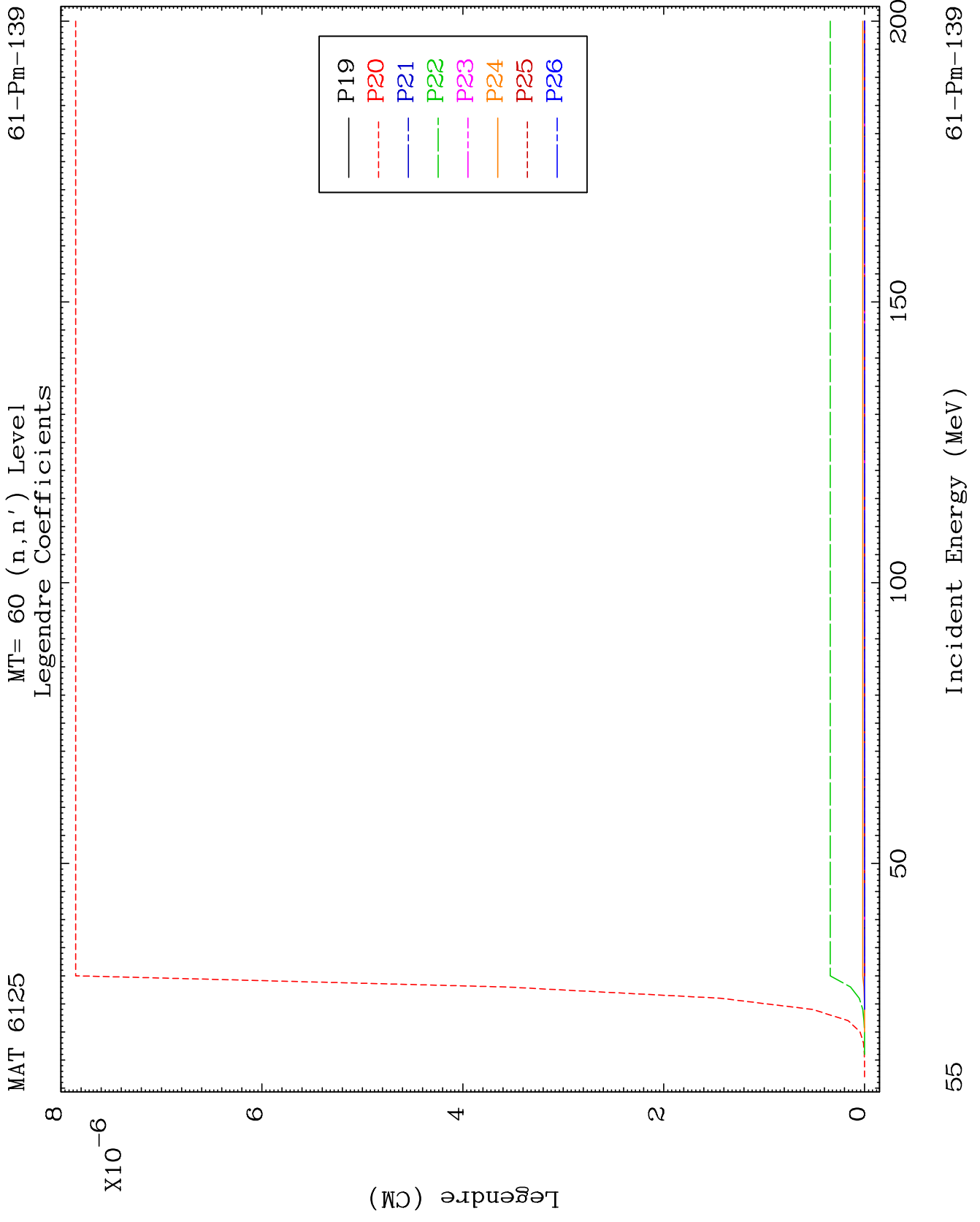
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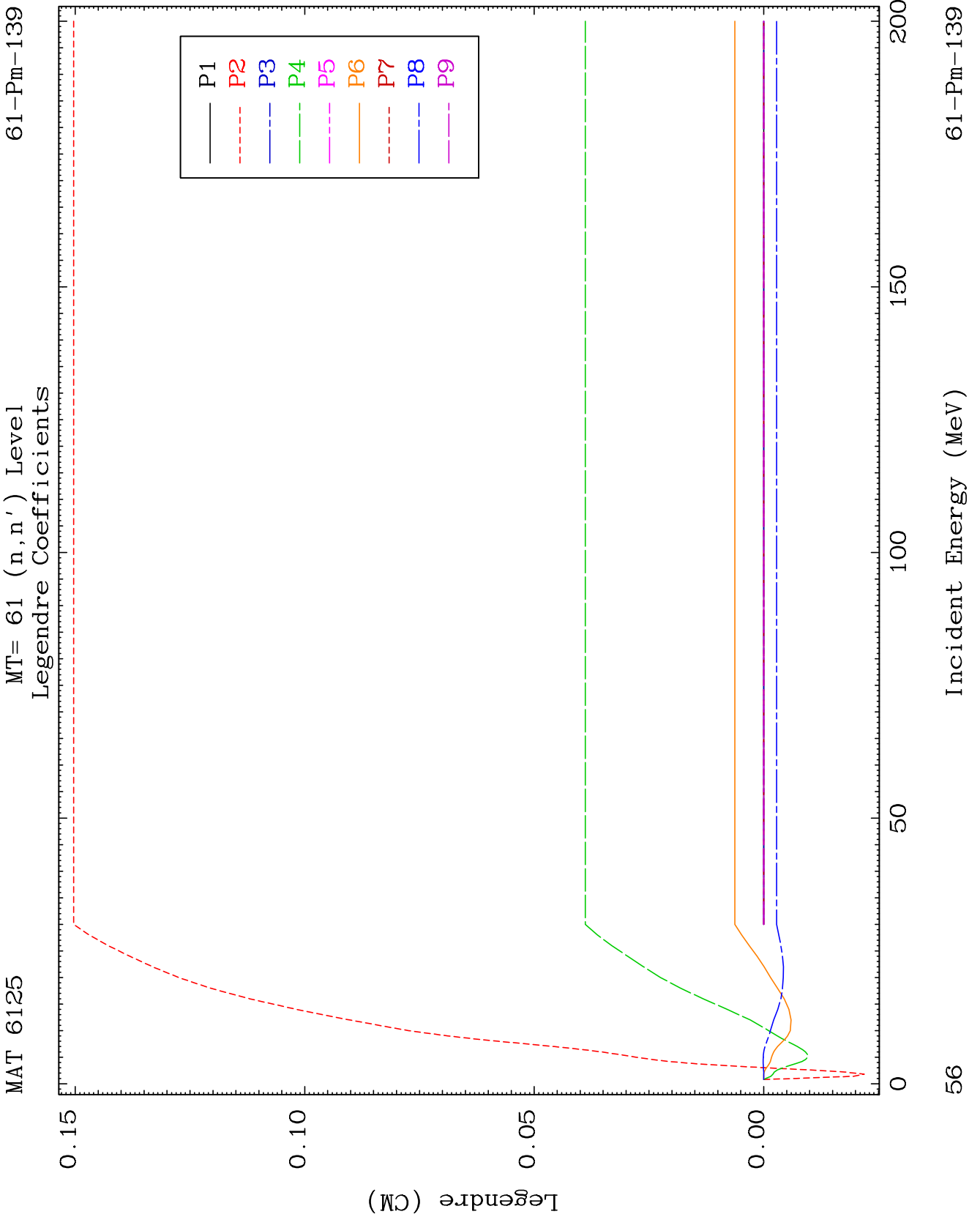
Incident Energy (MeV)

61-Pm-139





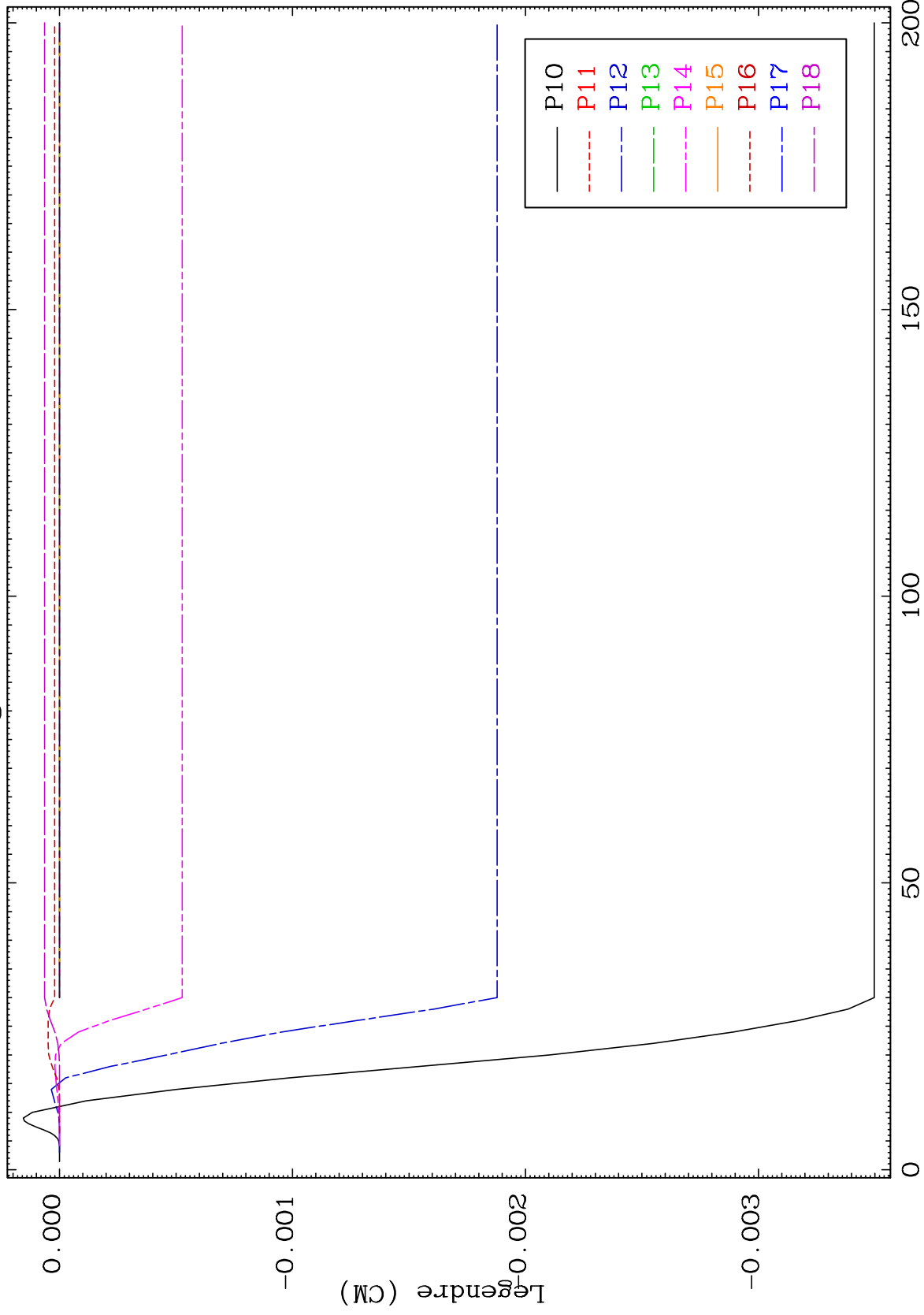




MAT 6125

MT= 61 (n,n') Level  
Legendre Coefficients

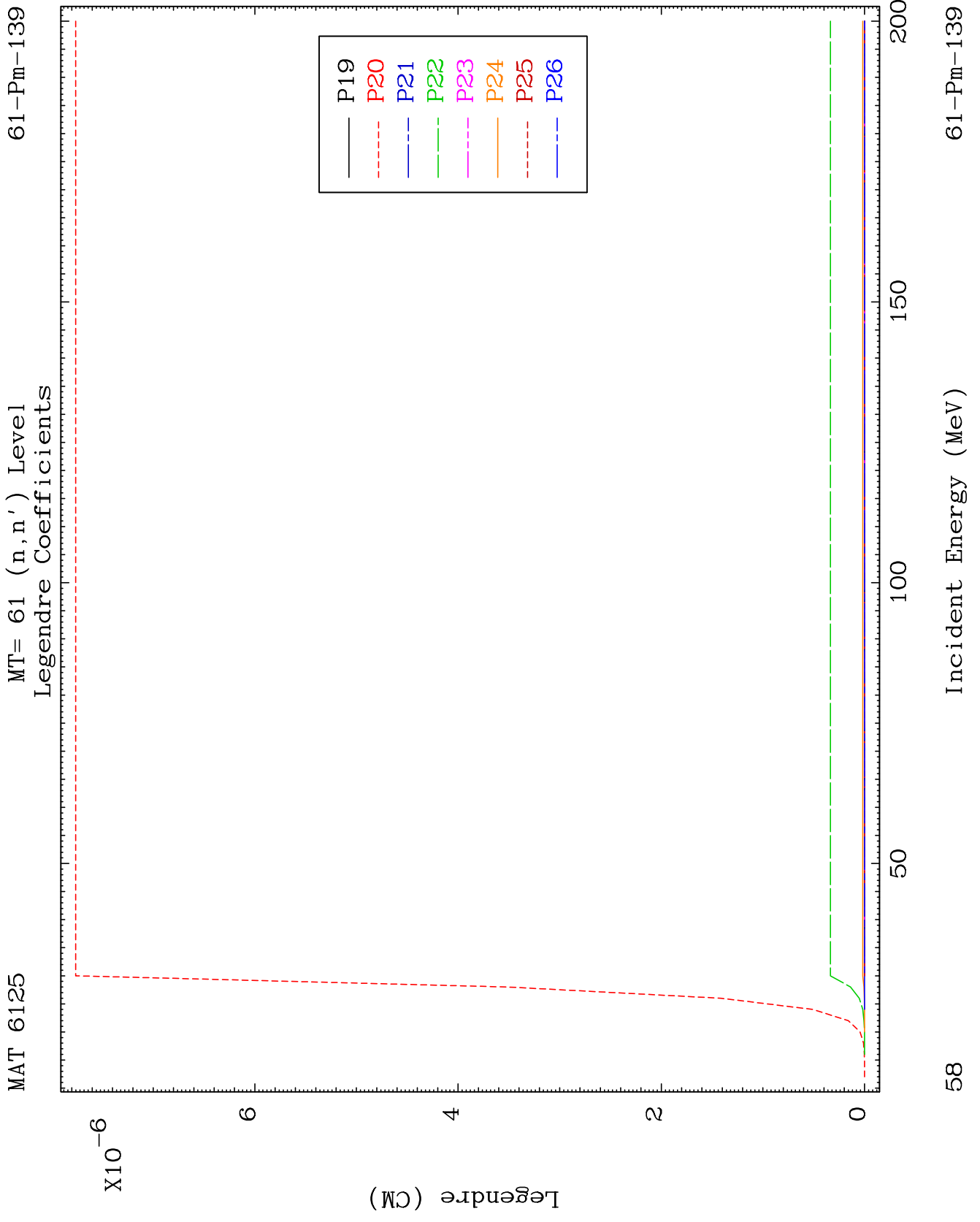
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57

Incident Energy (MeV)

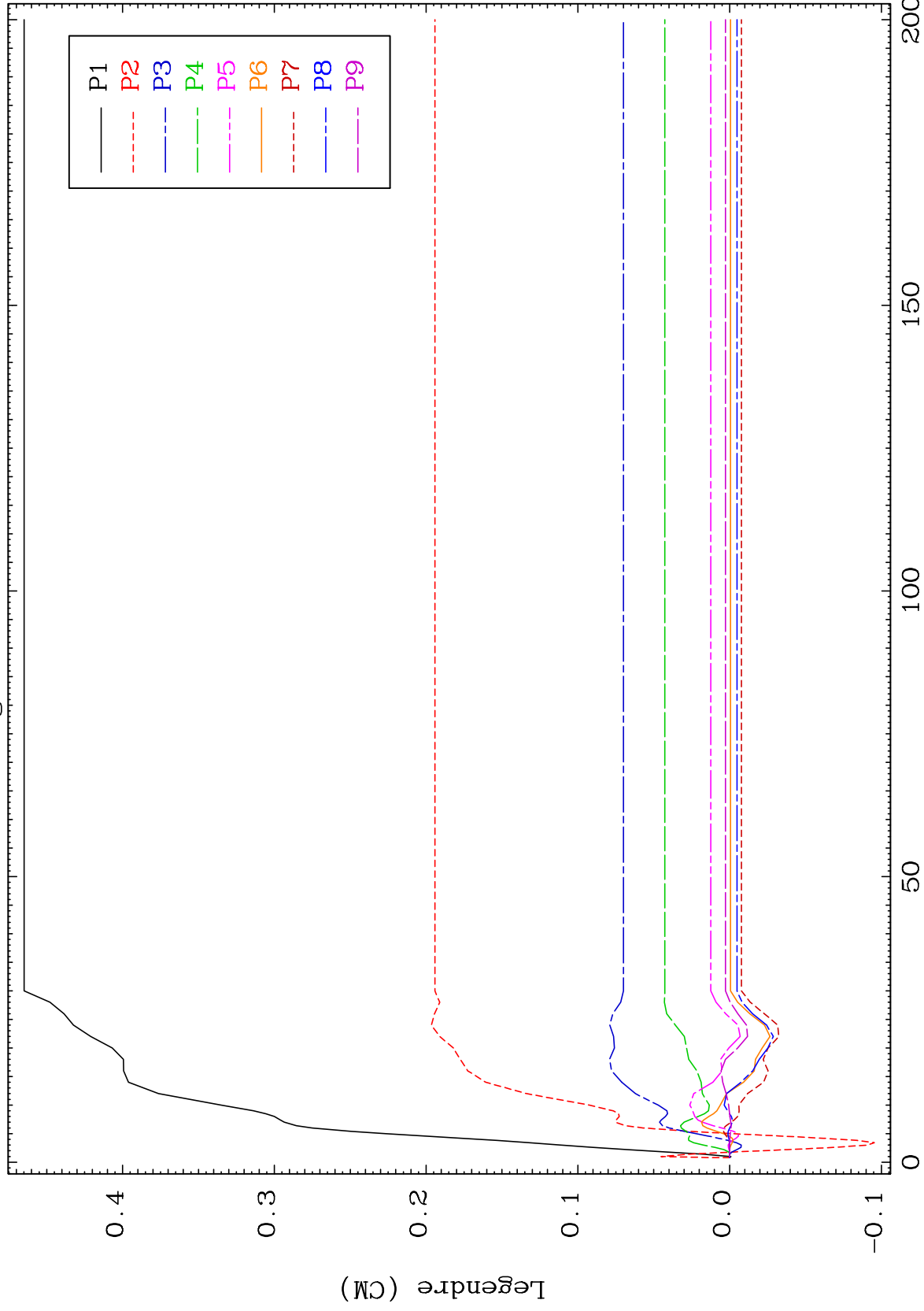
61-Pm-139



MAT 6125

MT= 62 (n,n') Level  
Legendre Coefficients

61-Pm-139



59

Incident Energy (MeV)

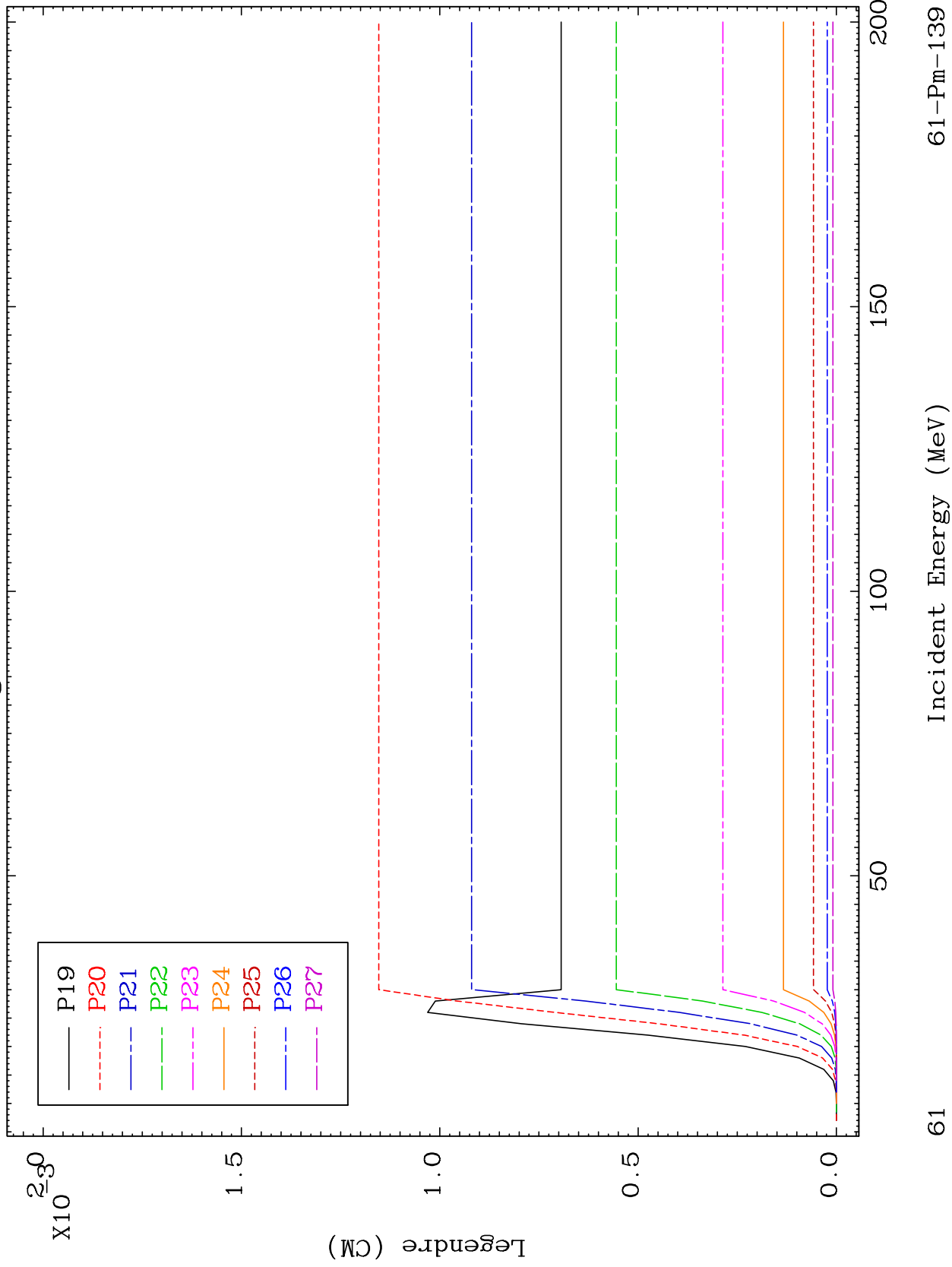
61-Pm-139



MAT 6125

MT= 62 (n,n') Level  
Legendre Coefficients

61-Pm-139

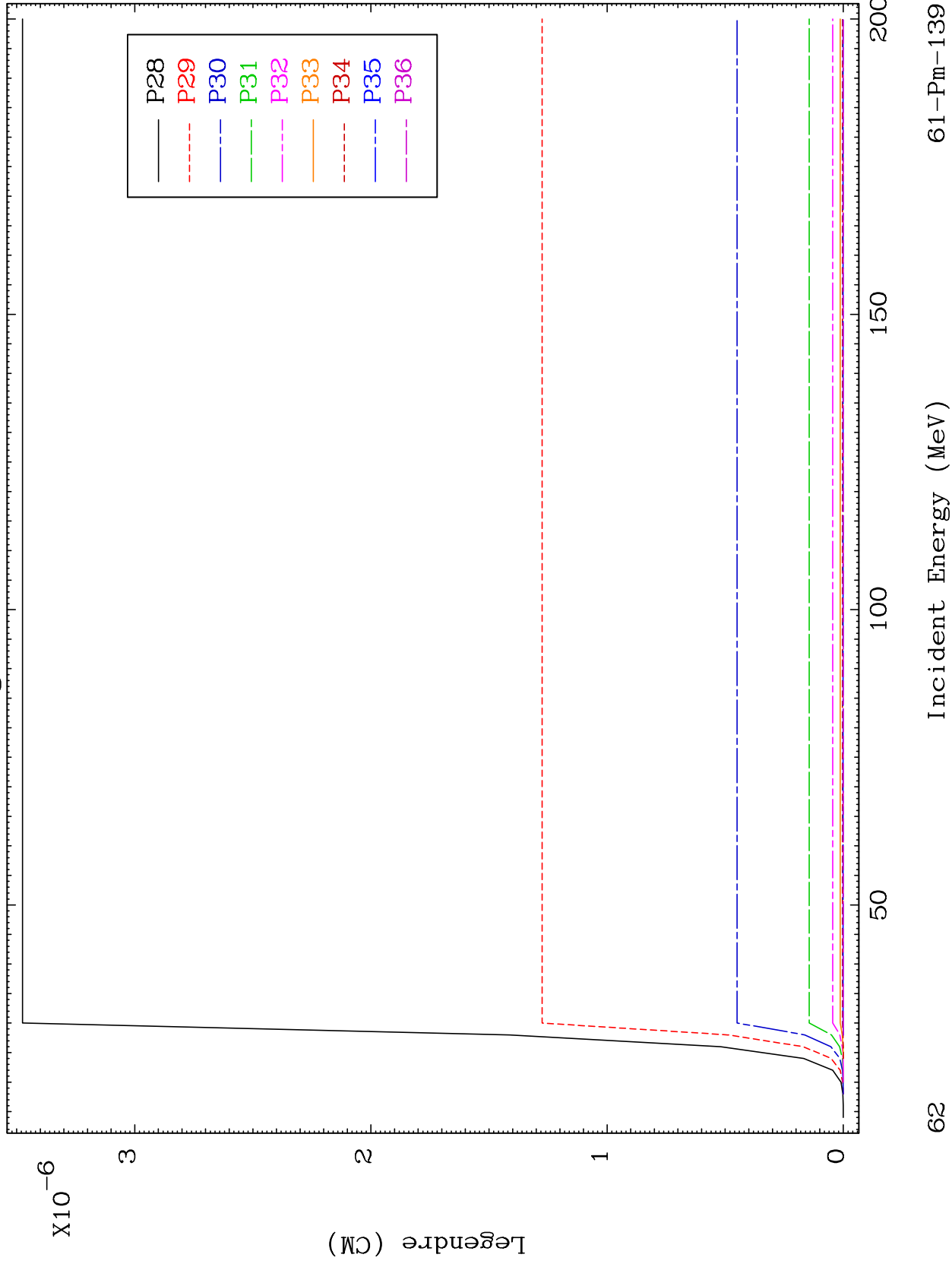


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MAT 6125

MT= 62 (n,n') Level  
Legendre Coefficients

61-Pm-139

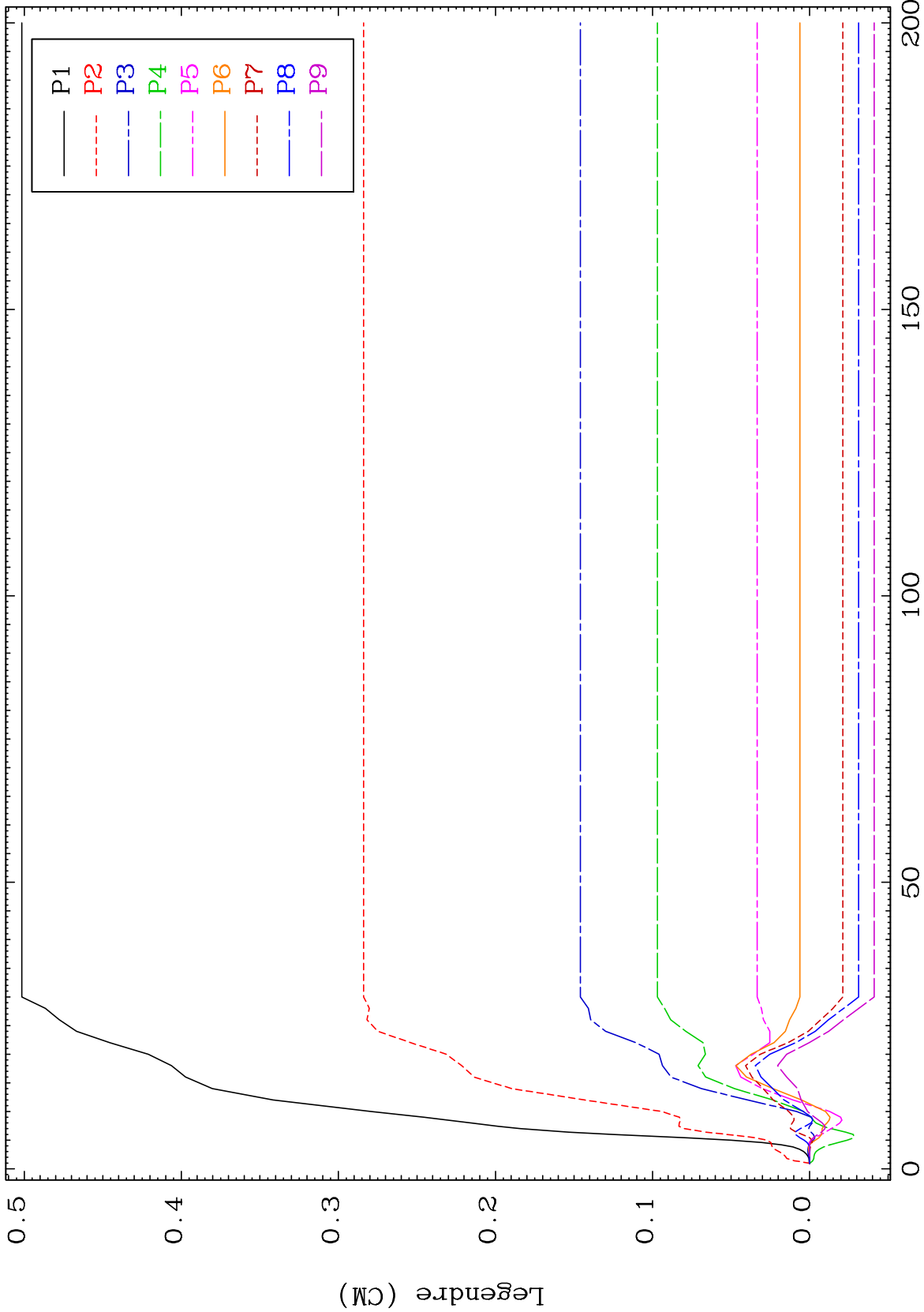


MAT 6125

MT= 63 (n,n') Level

61-Pm-139

Legendre Coefficients



63

Incident Energy (MeV)

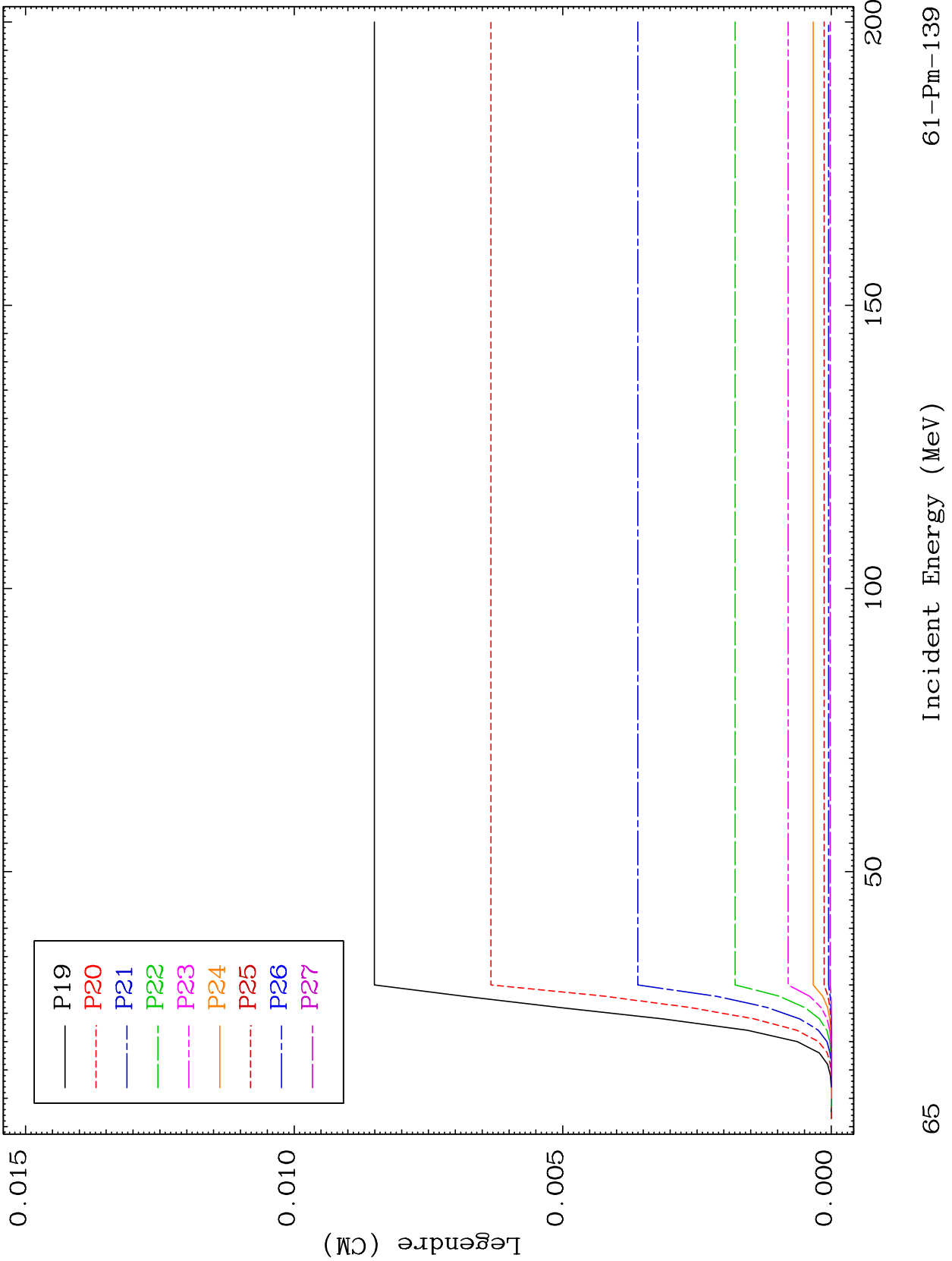
61-Pm-139



MAT 6125

MT= 63 (n,n') Level  
Legendre Coefficients

61-Pm-139



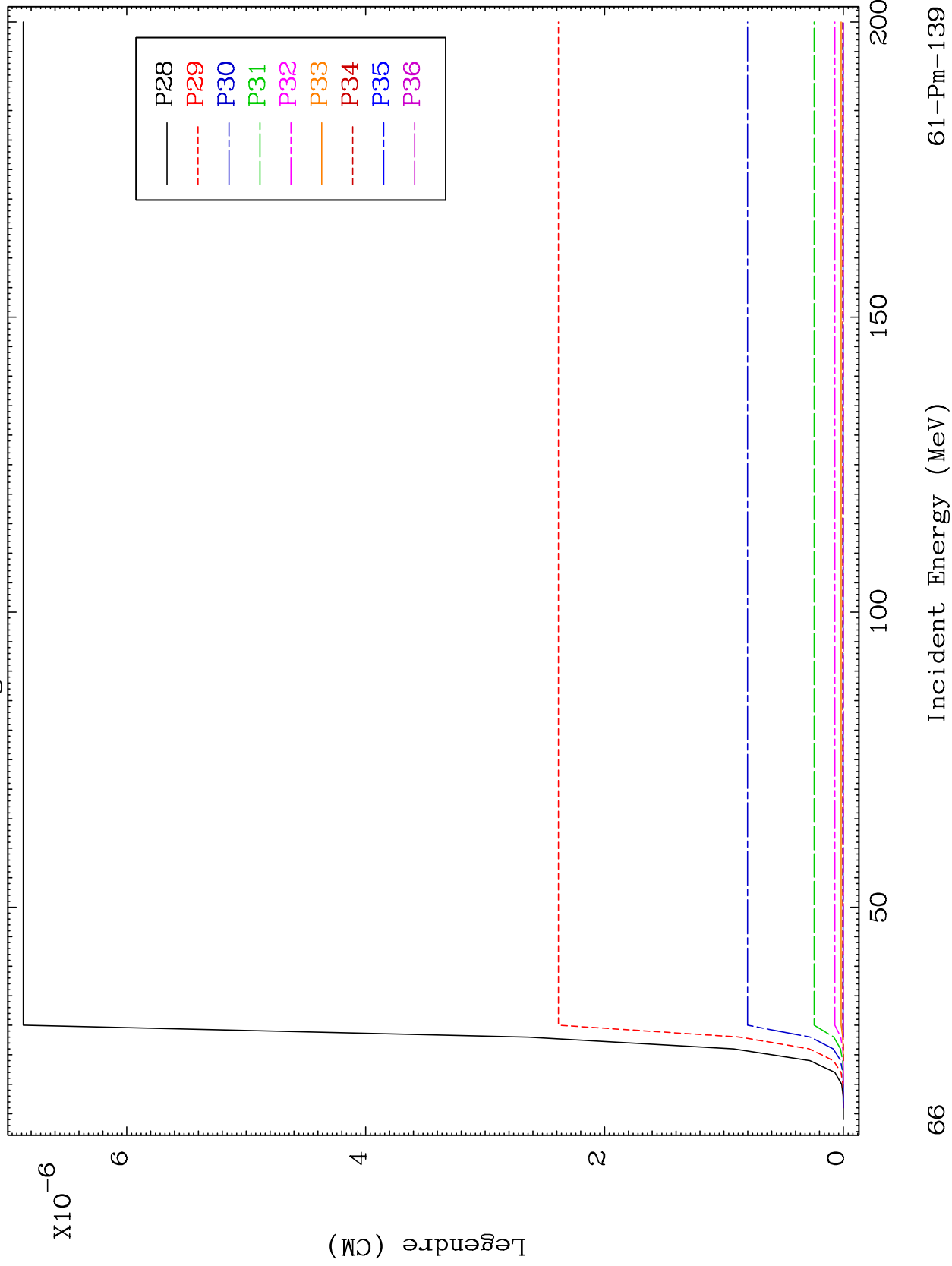
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61-Pm-139

MAT 6125

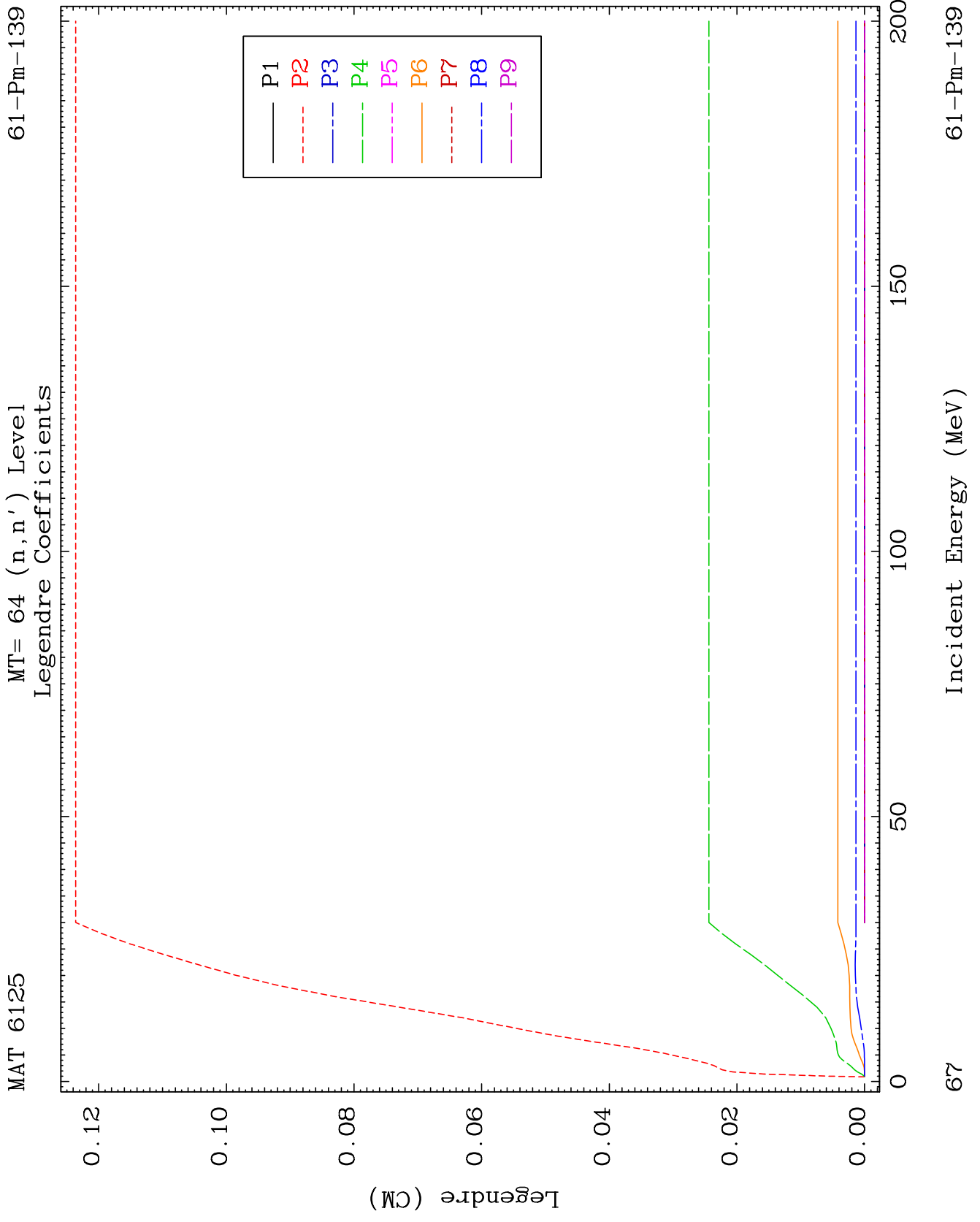
MT= 63 (n,n') Level  
Legendre Coefficients

61-Pm-139



66

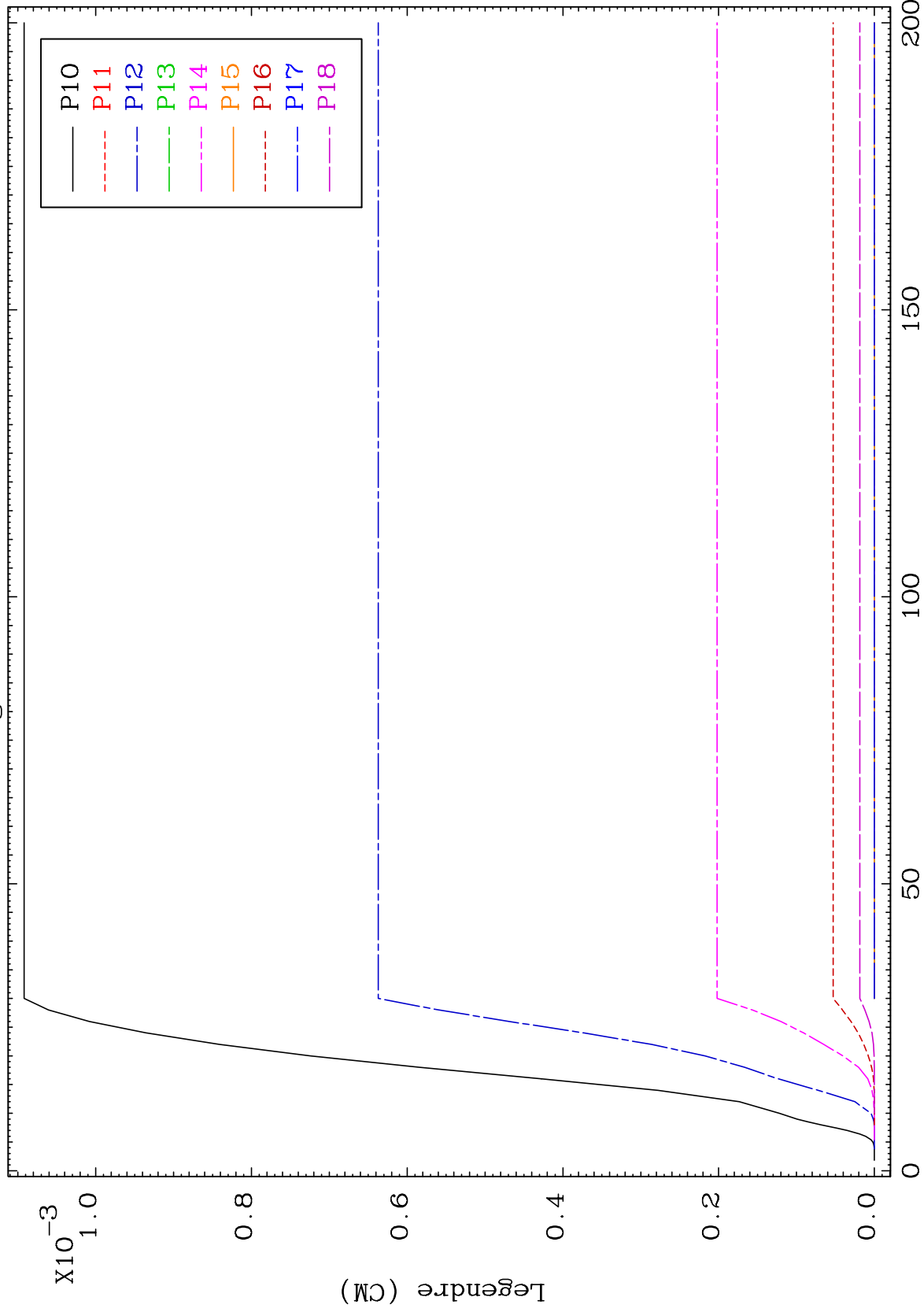
61-Pm-139



MAT 6125

MT= 64 (n,n') Level  
Legendre Coefficients

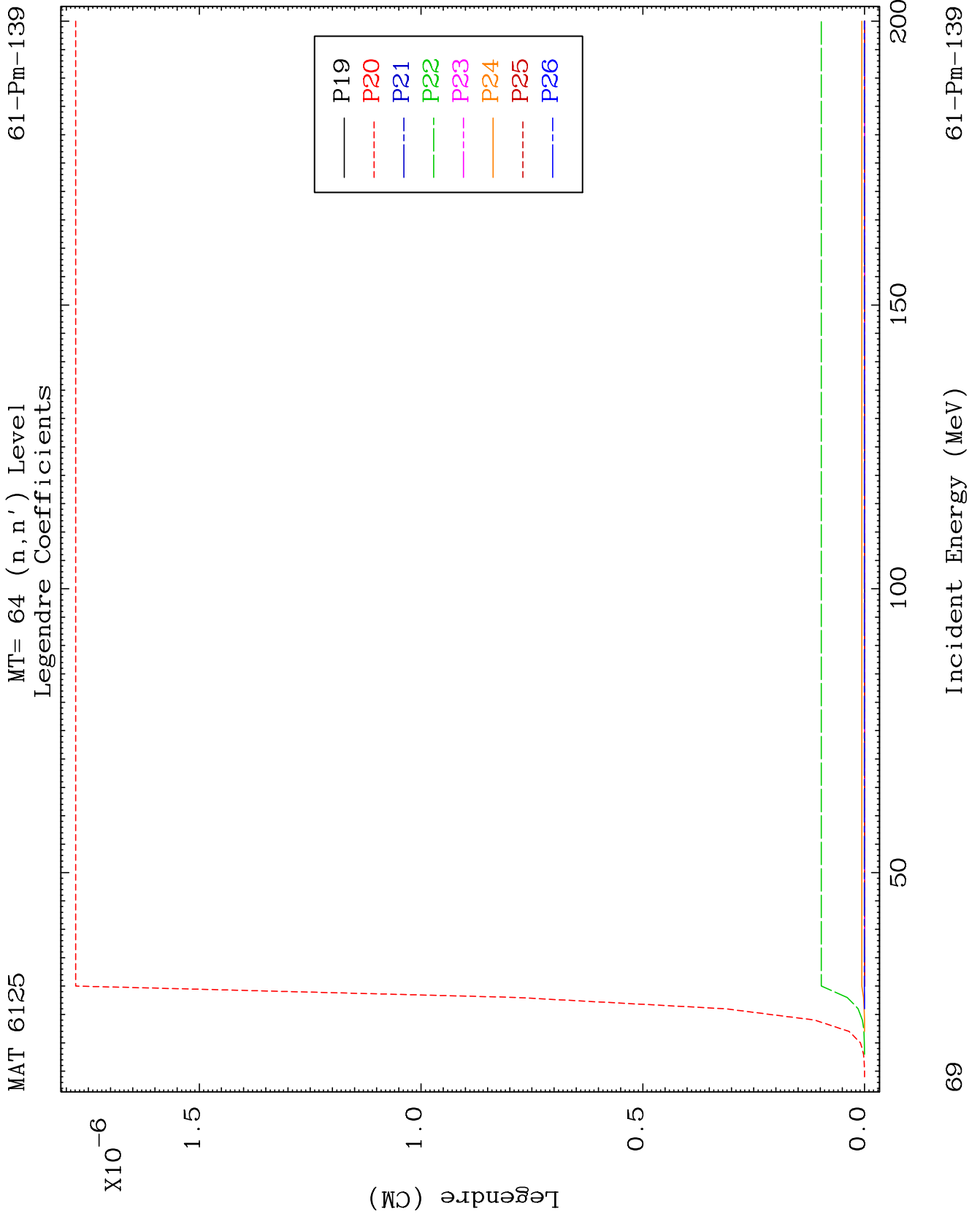
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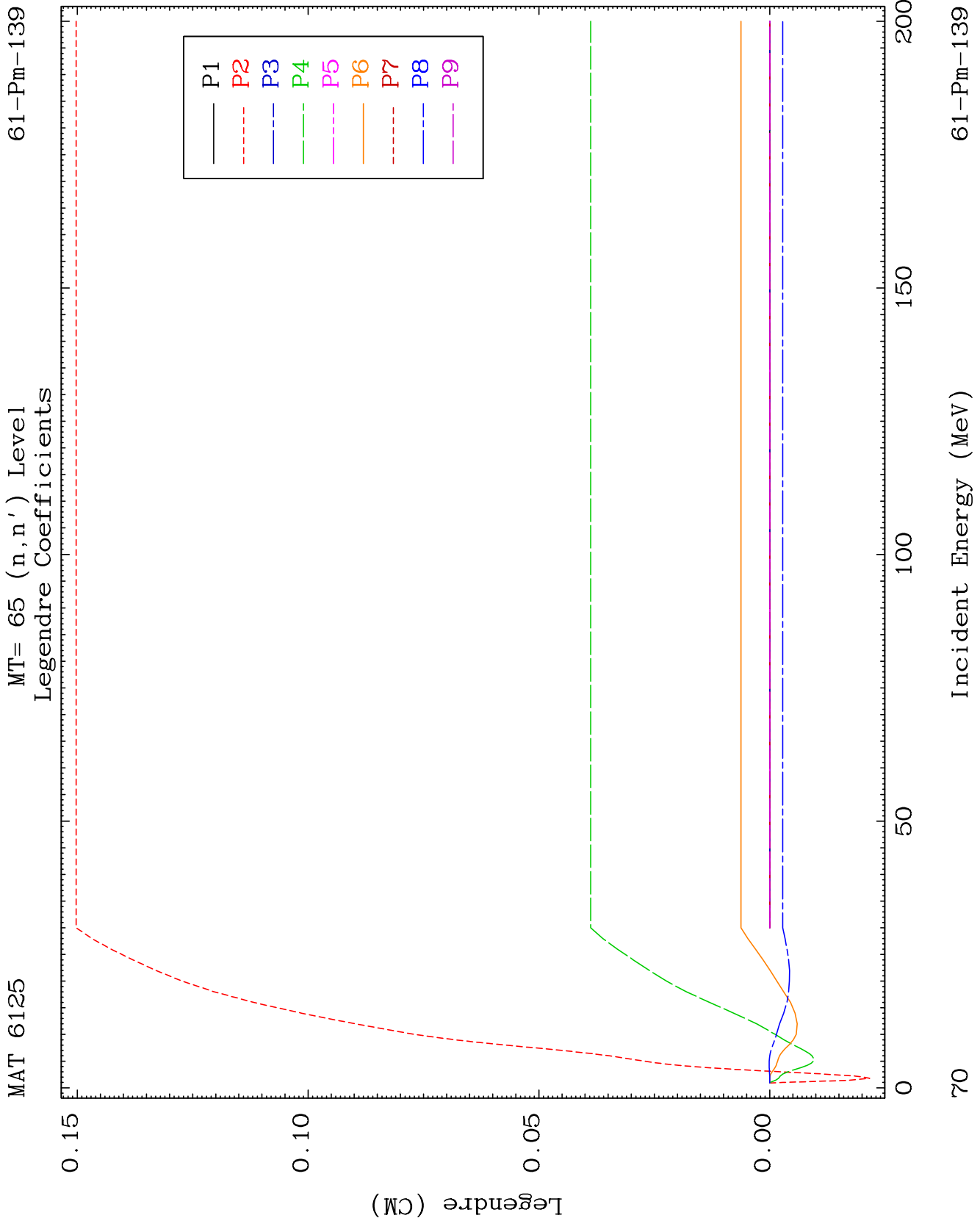


68

Incident Energy (MeV)

61-Pm-139

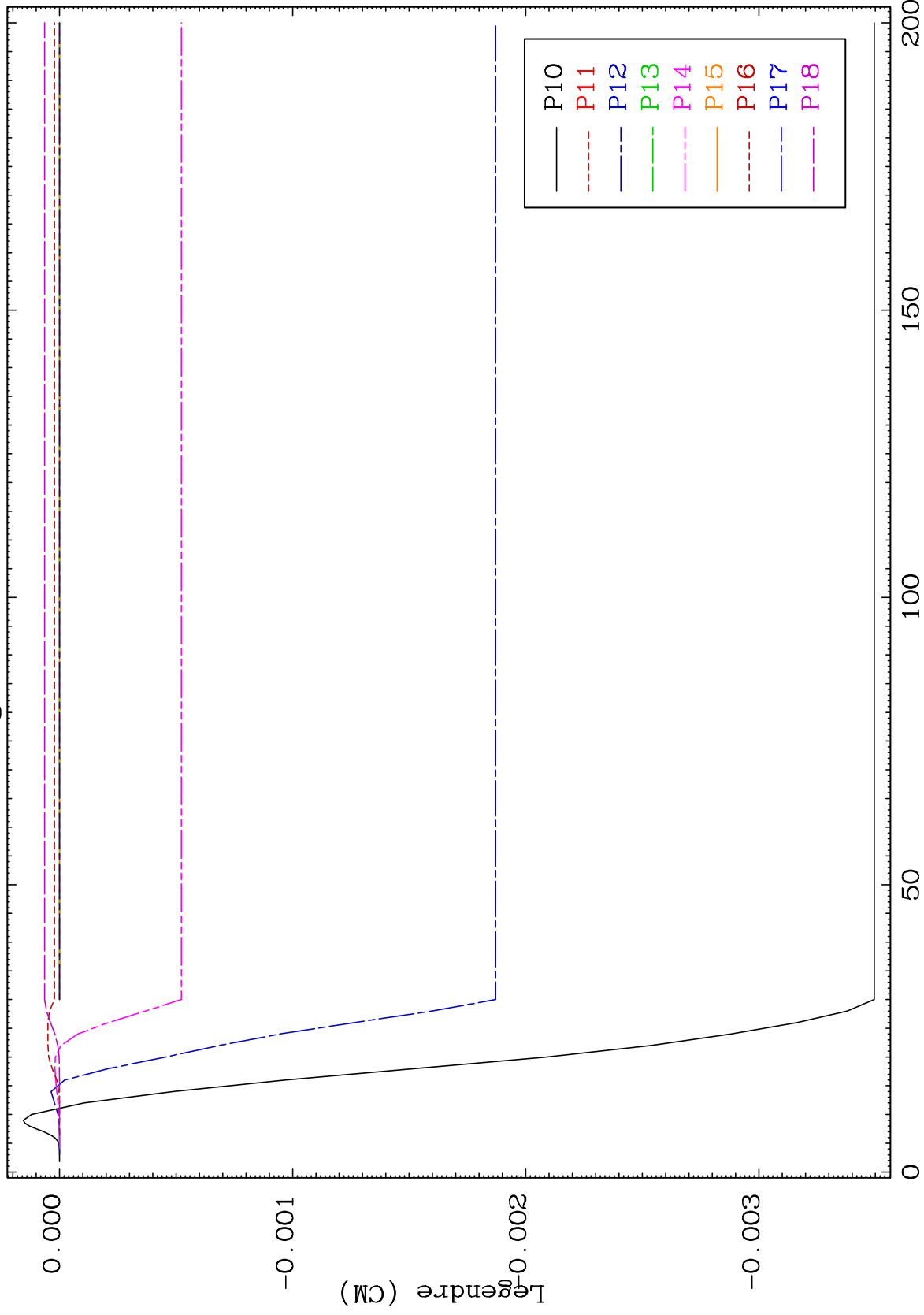




MAT 6125

MT= 65 (n,n') Level  
Legendre Coefficients

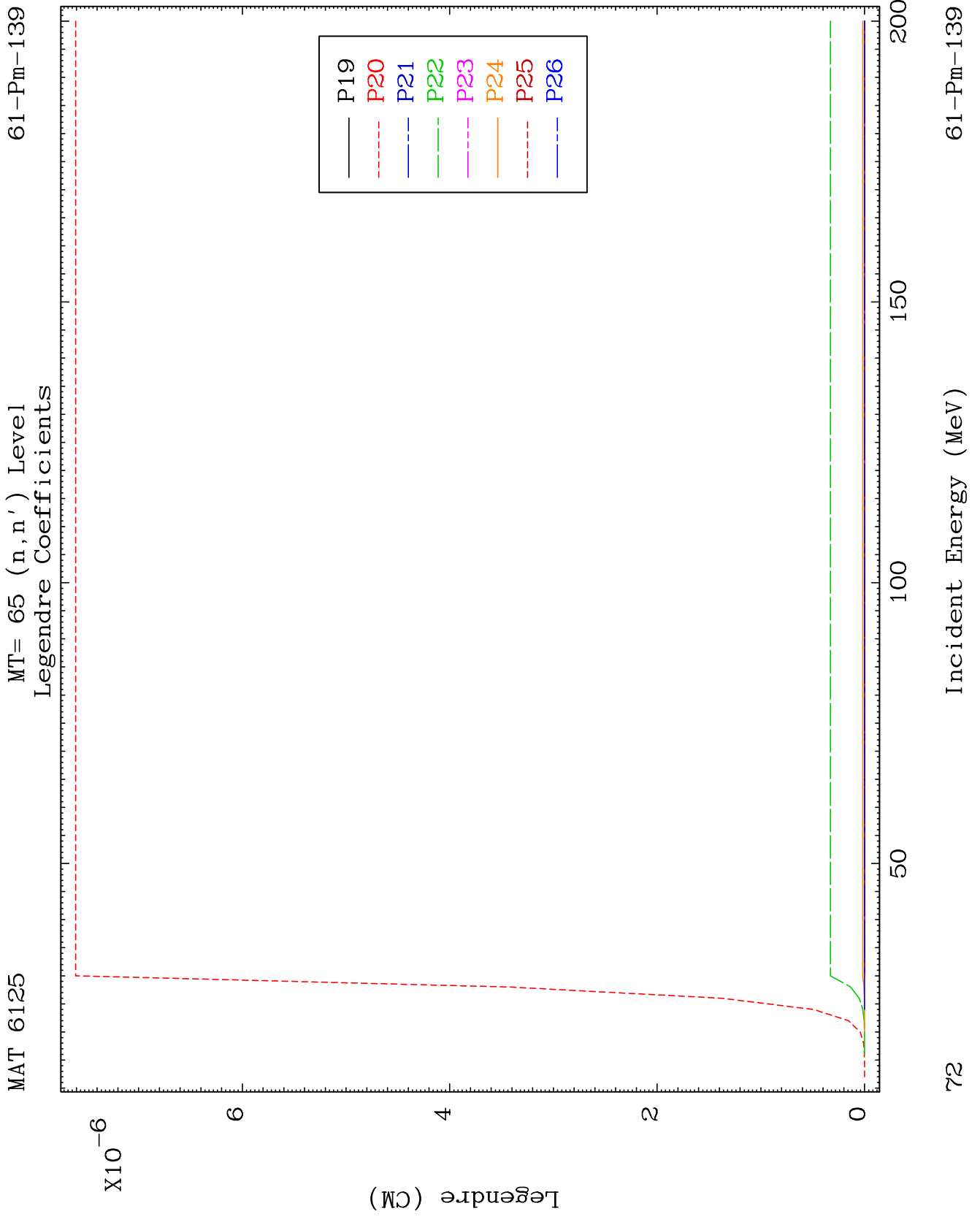
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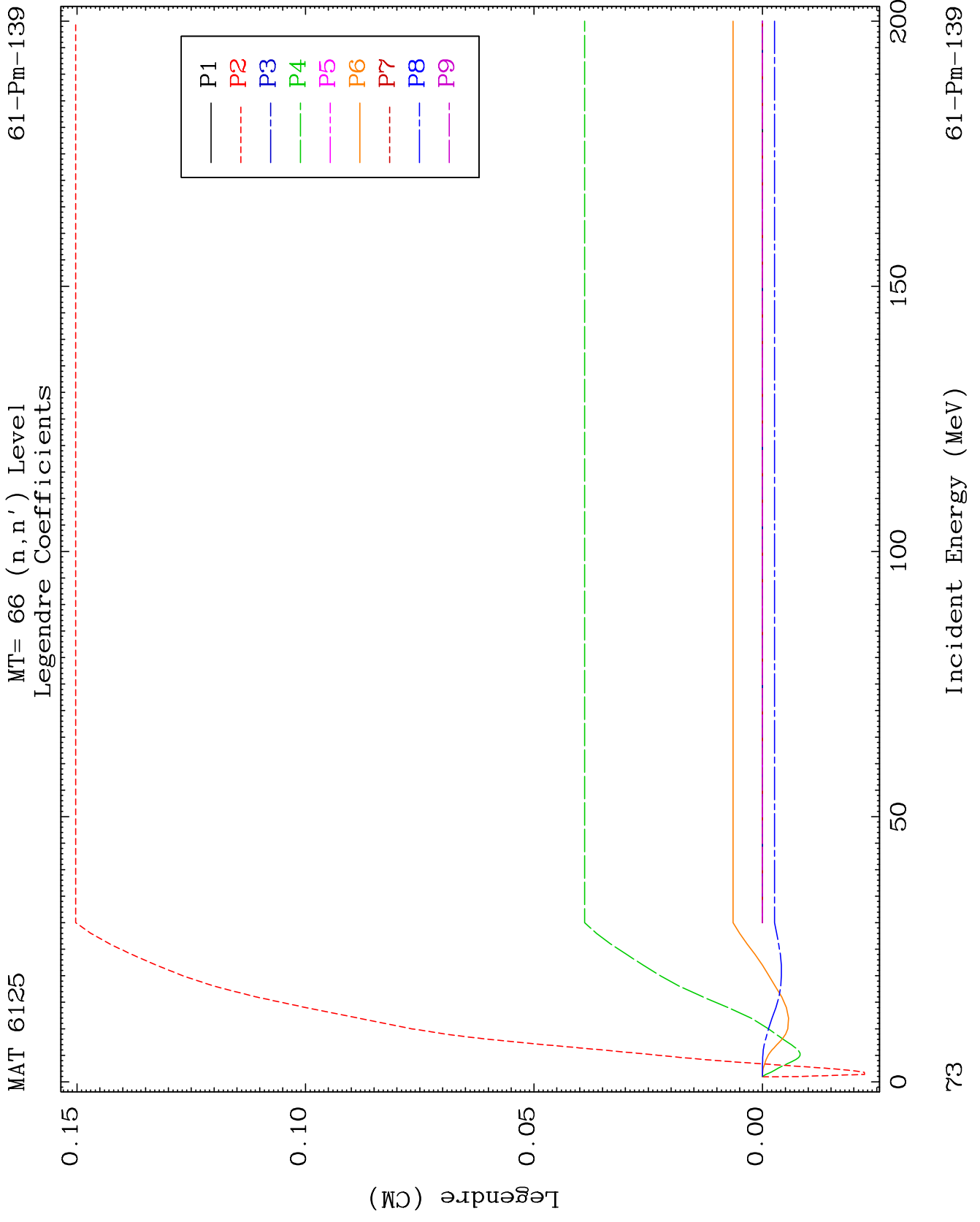


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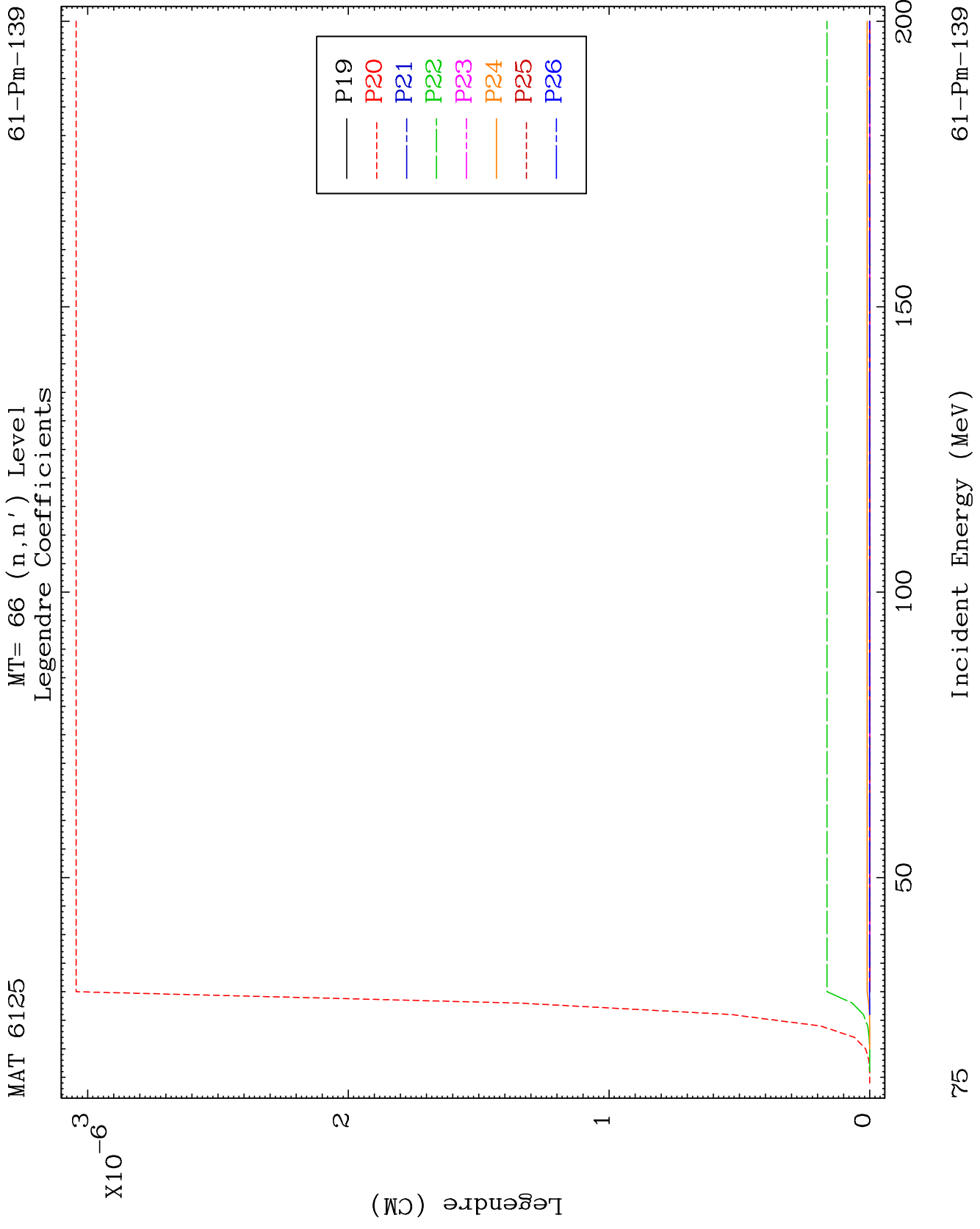
Incident Energy (MeV)

61-Pm-139







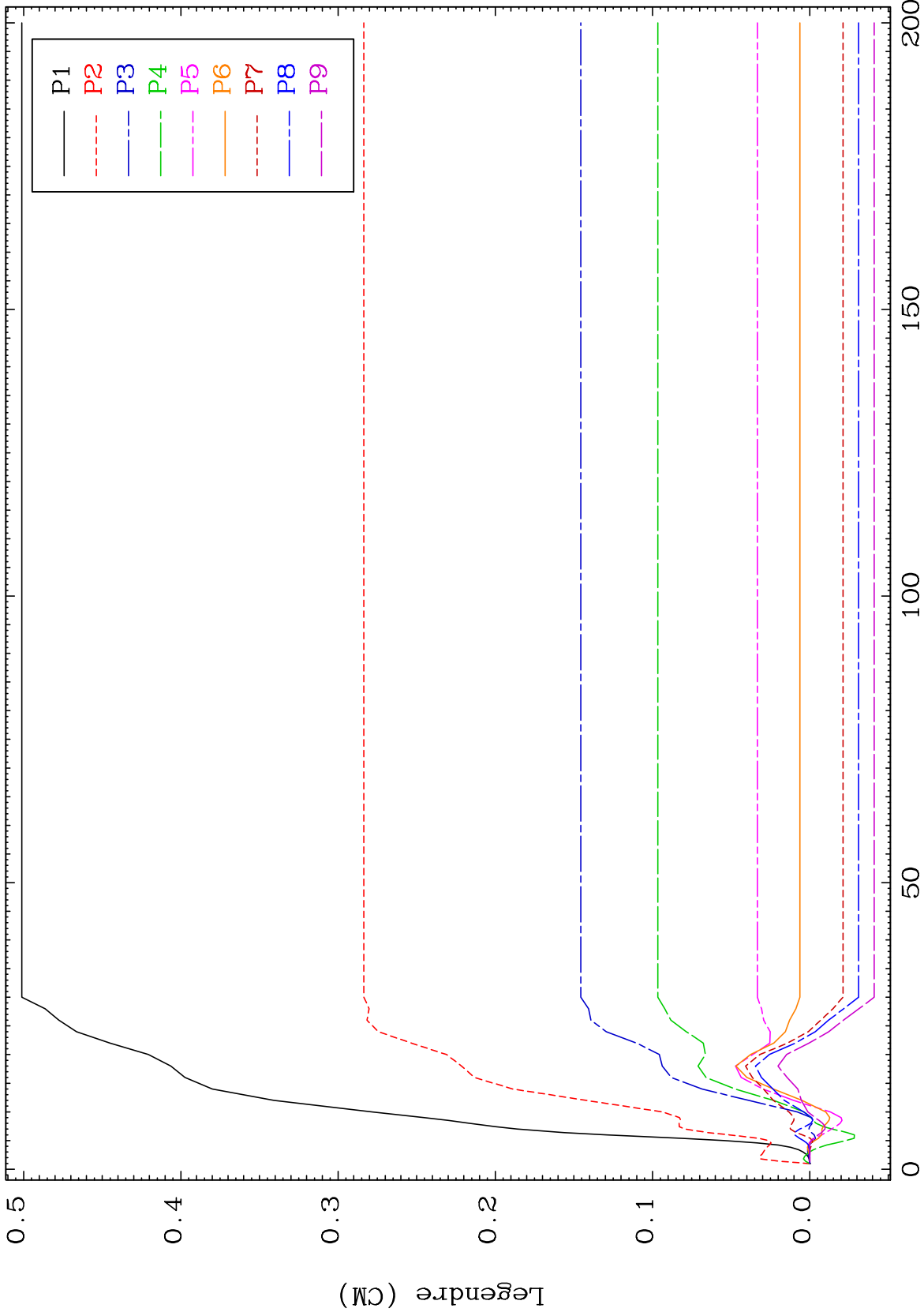


MAT 6125

MT= 67 (n,n') Level

61-Pm-139

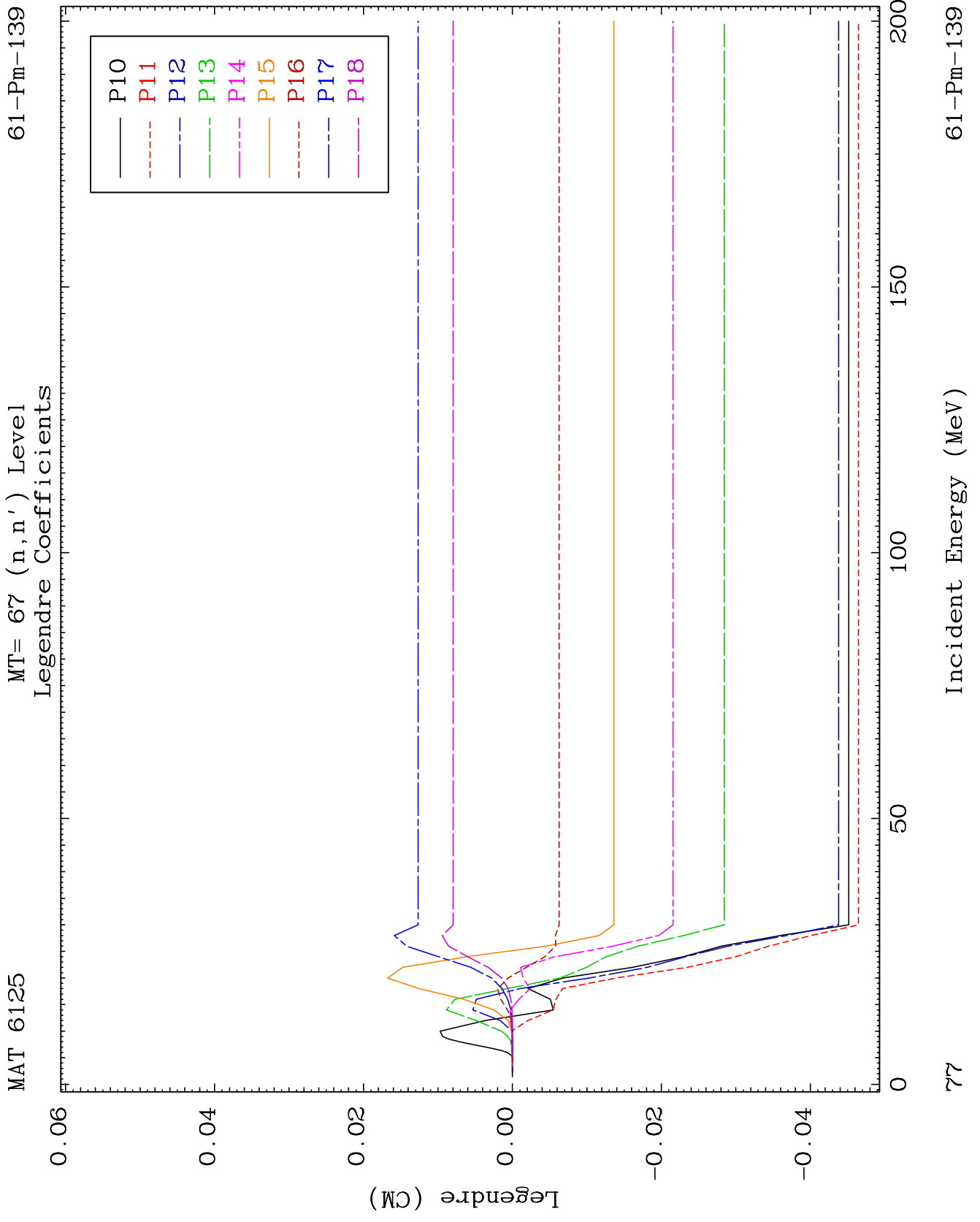
Legendre Coefficients



76

Incident Energy (MeV)

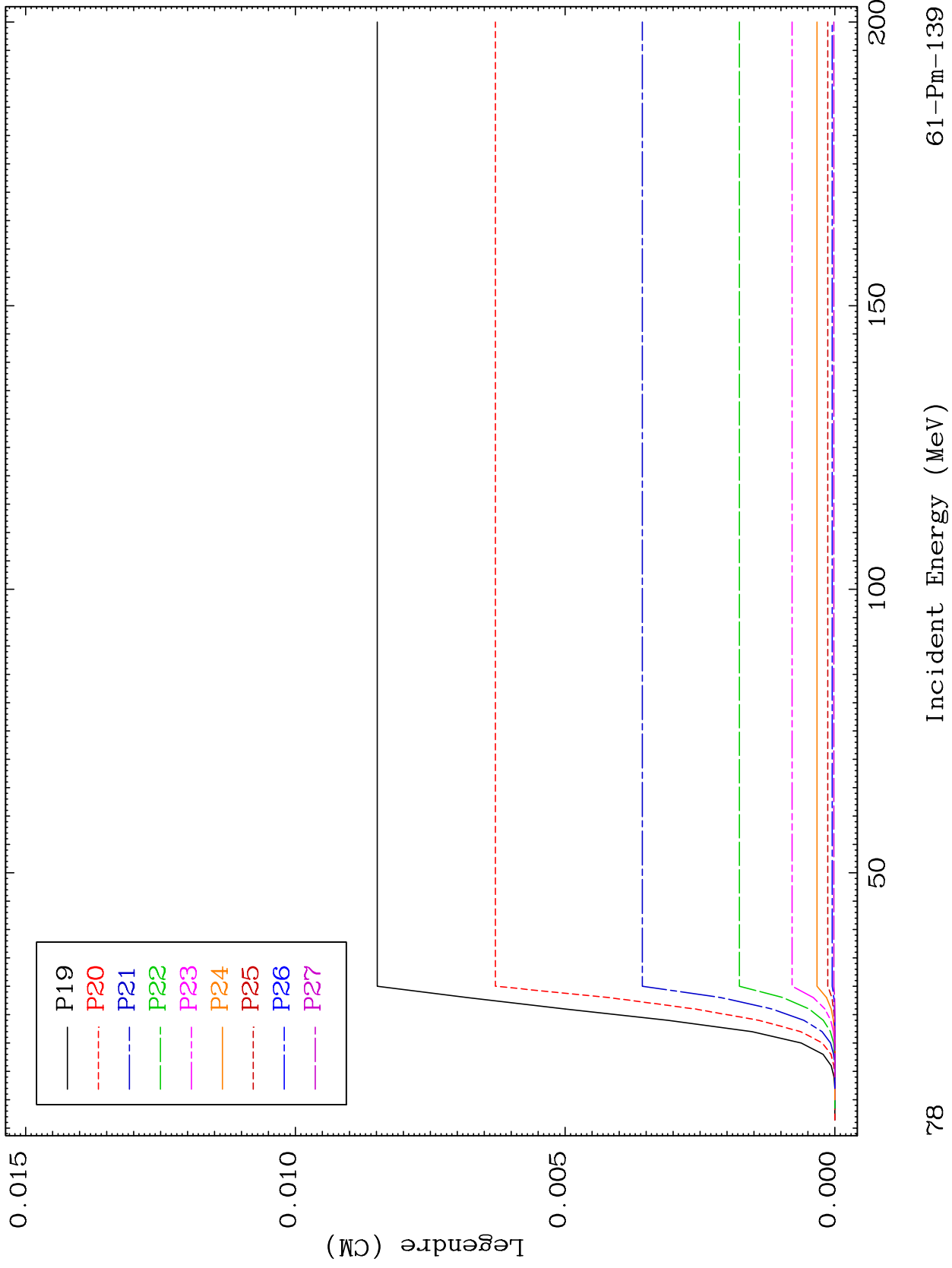
61-Pm-139



MAT 6125

MT= 67 (n,n') Level  
Legendre Coefficients

61-Pm-139



78

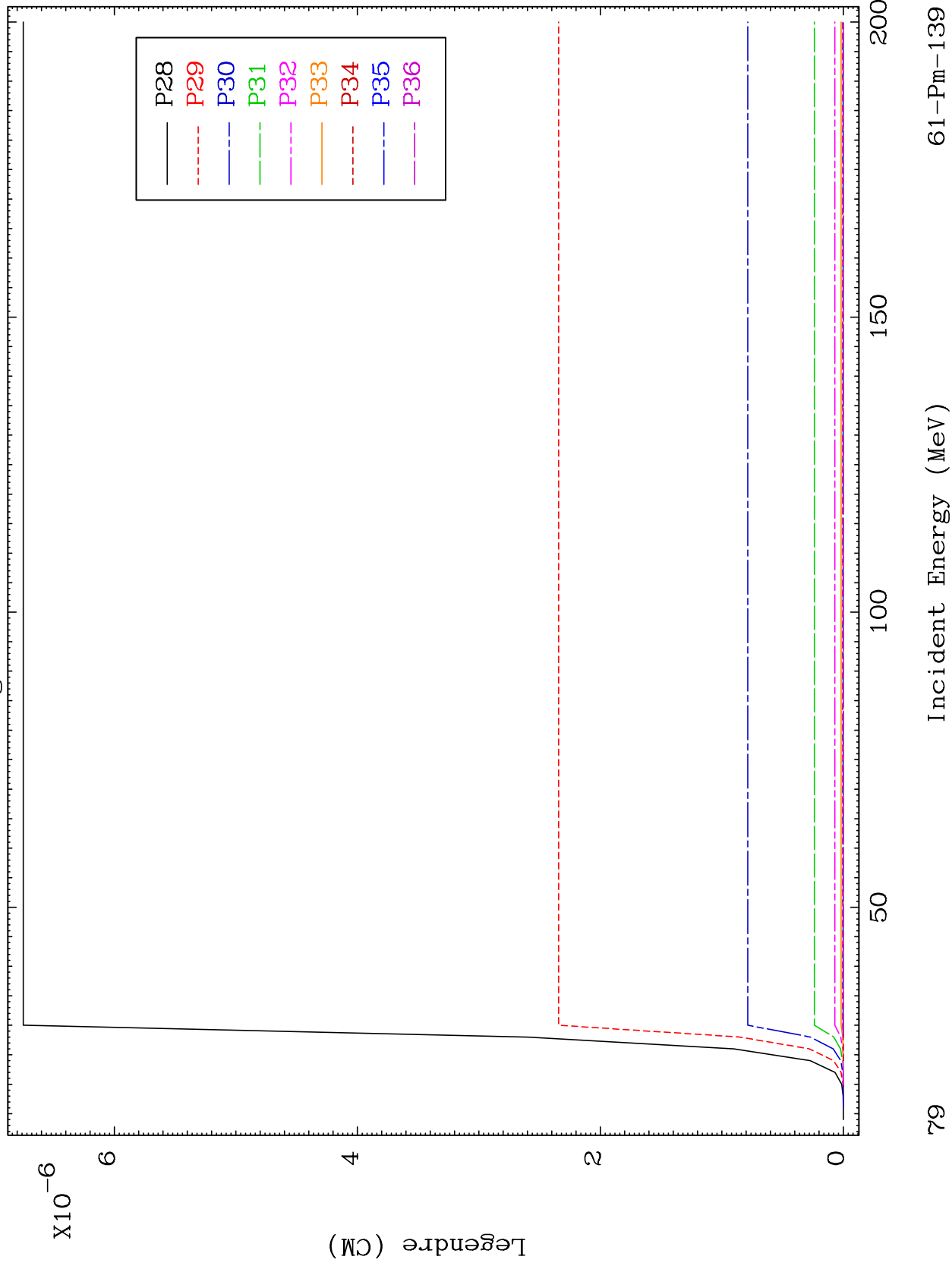
Incident Energy (MeV)

61-Pm-139

MAT 6125

MT= 67 (n,n') Level  
Legendre Coefficients

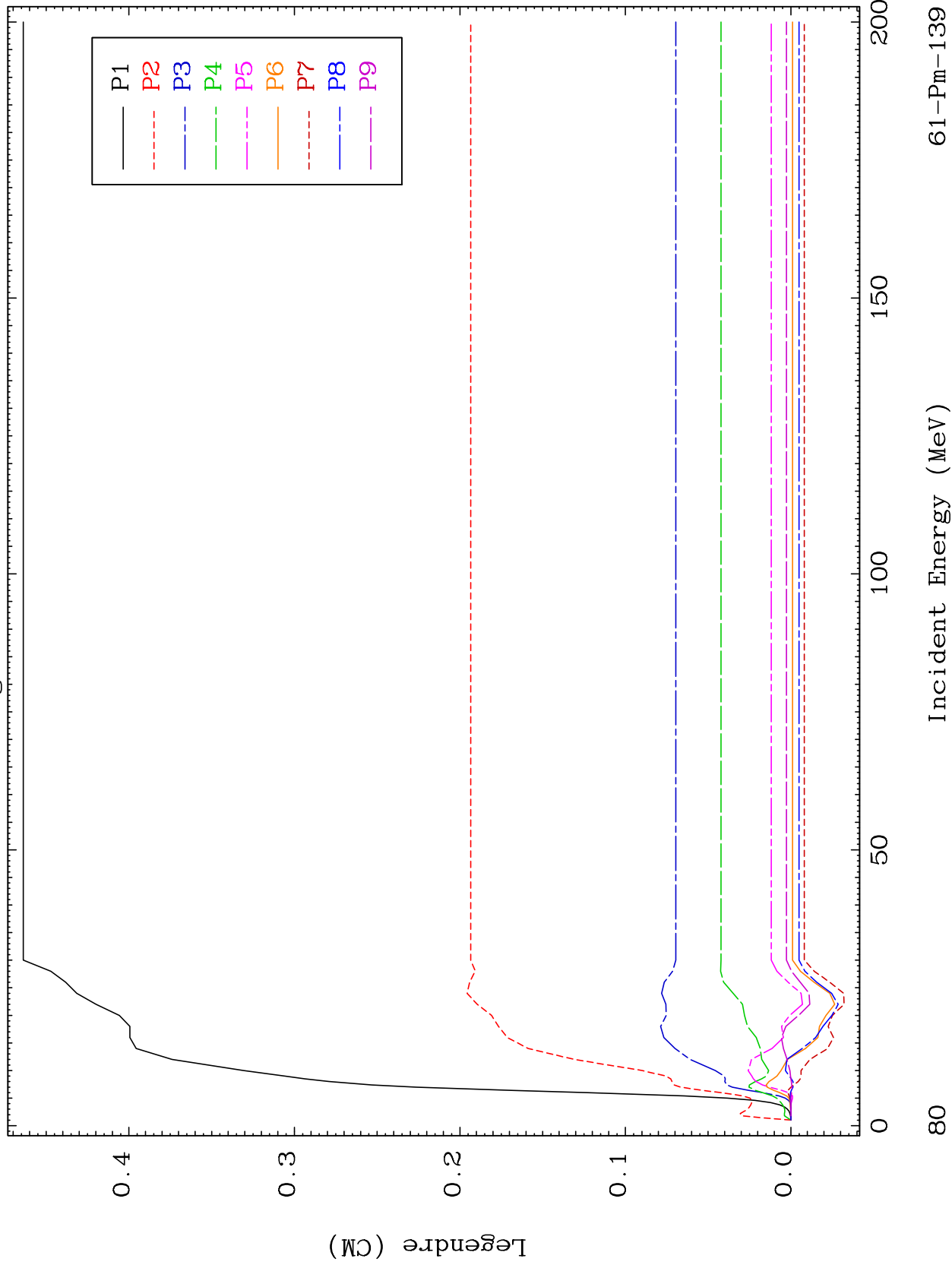
61-Pm-139



MAT 6125

MT= 68 (n,n') Level  
Legendre Coefficients

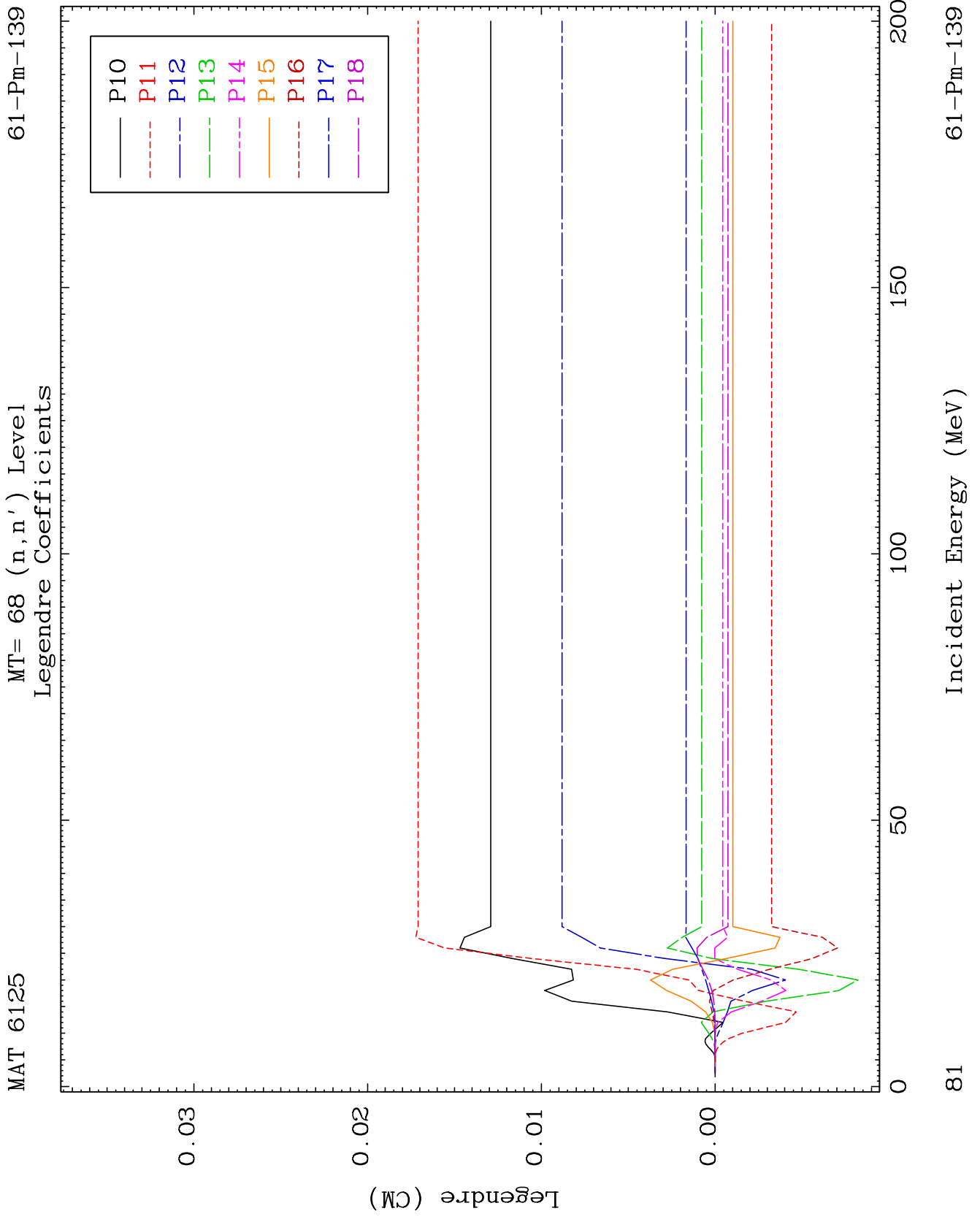
61-Pm-139



61-Pm-139

Incident Energy (MeV)

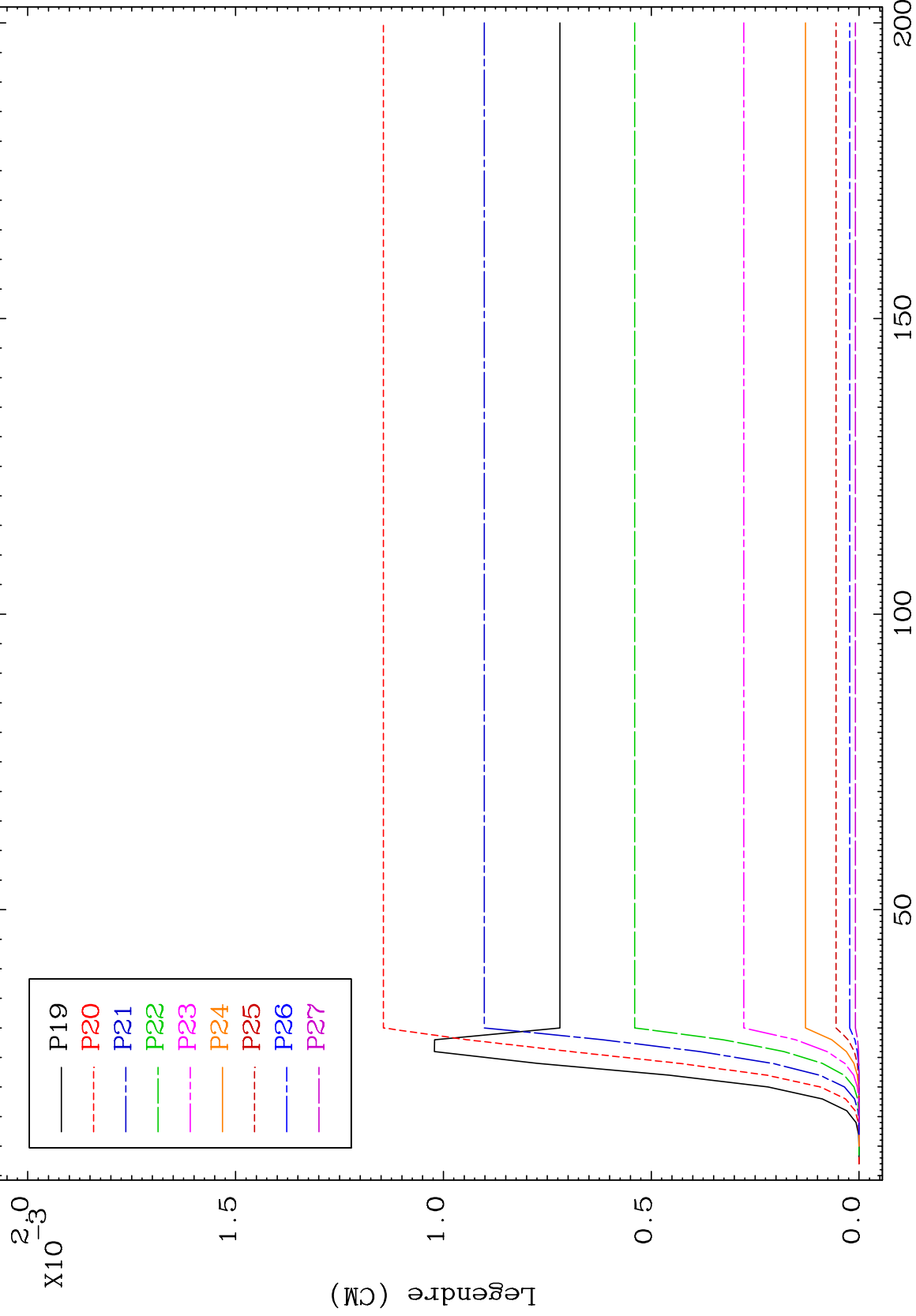
80



MAT 6125

MT= 68 (n,n') Level  
Legendre Coefficients

61-Pm-139



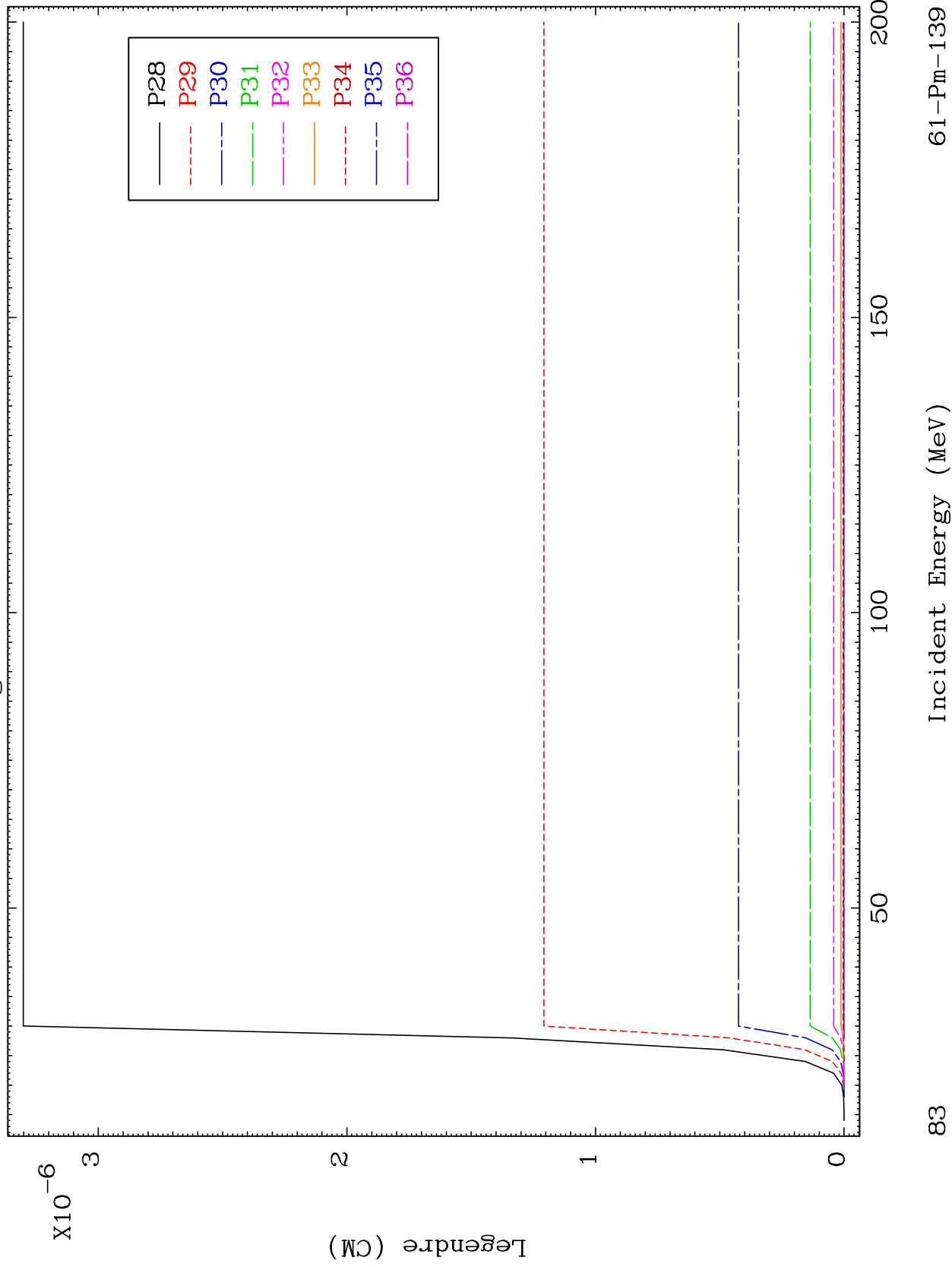
82

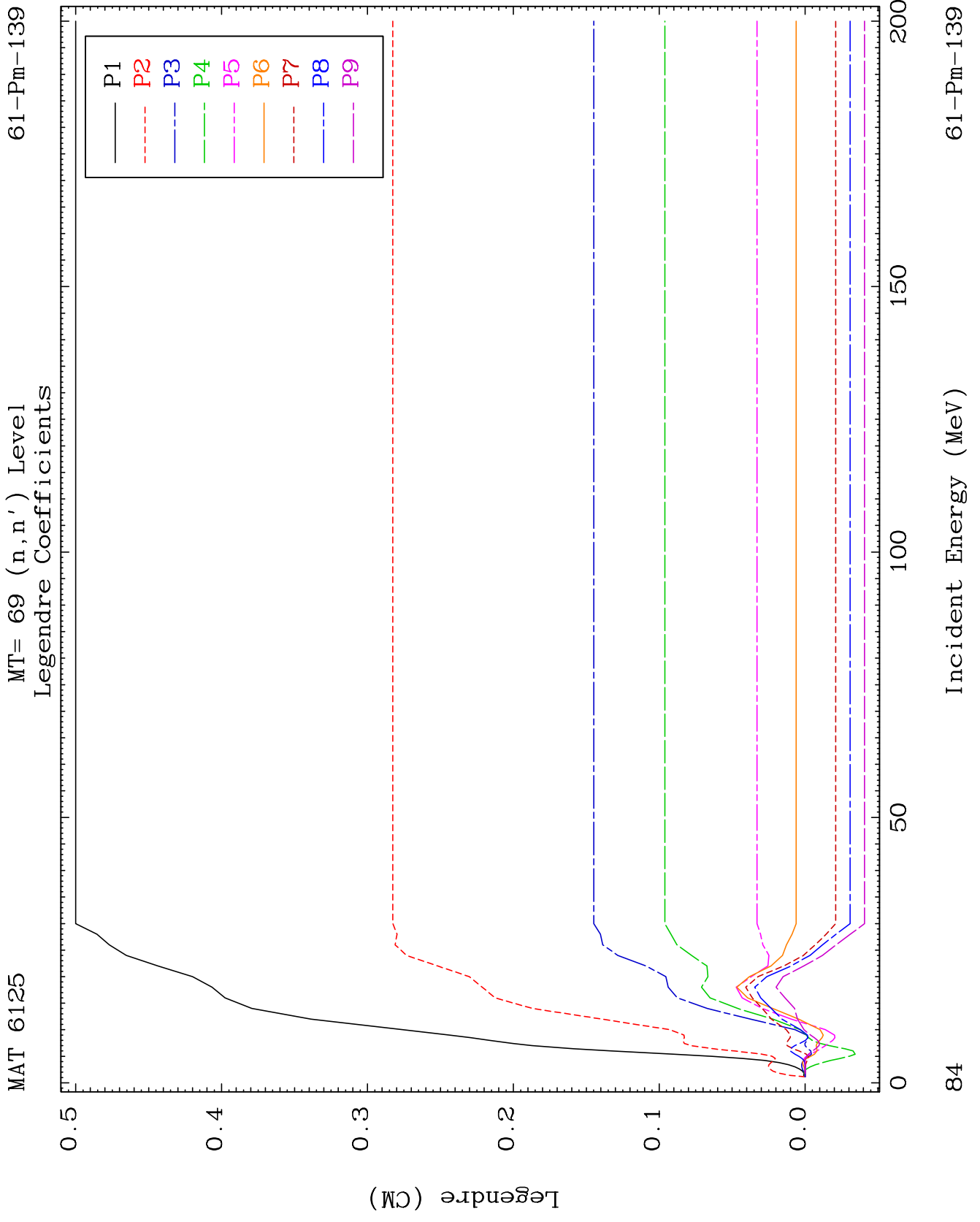
61-Pm-139

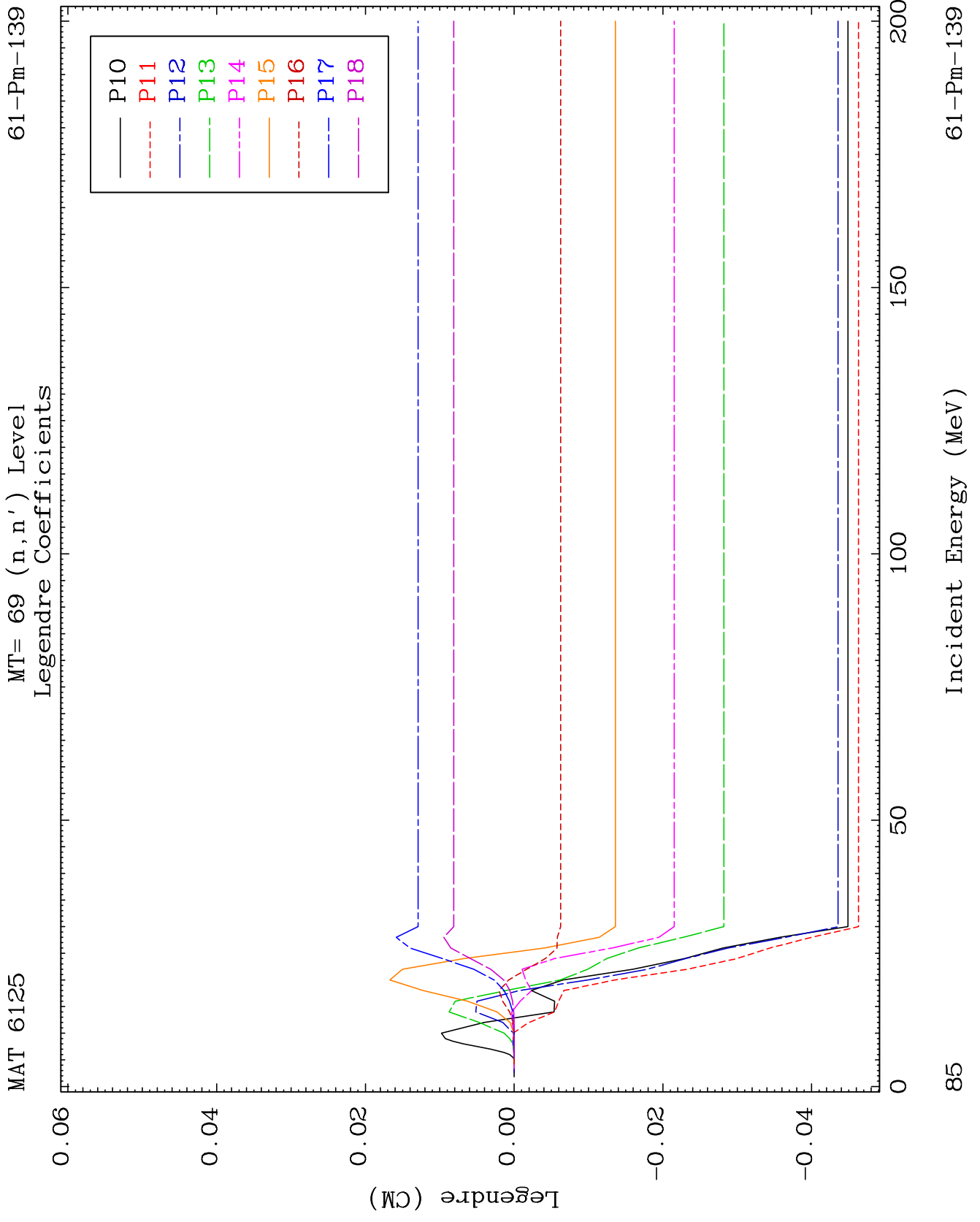
MAT 6125

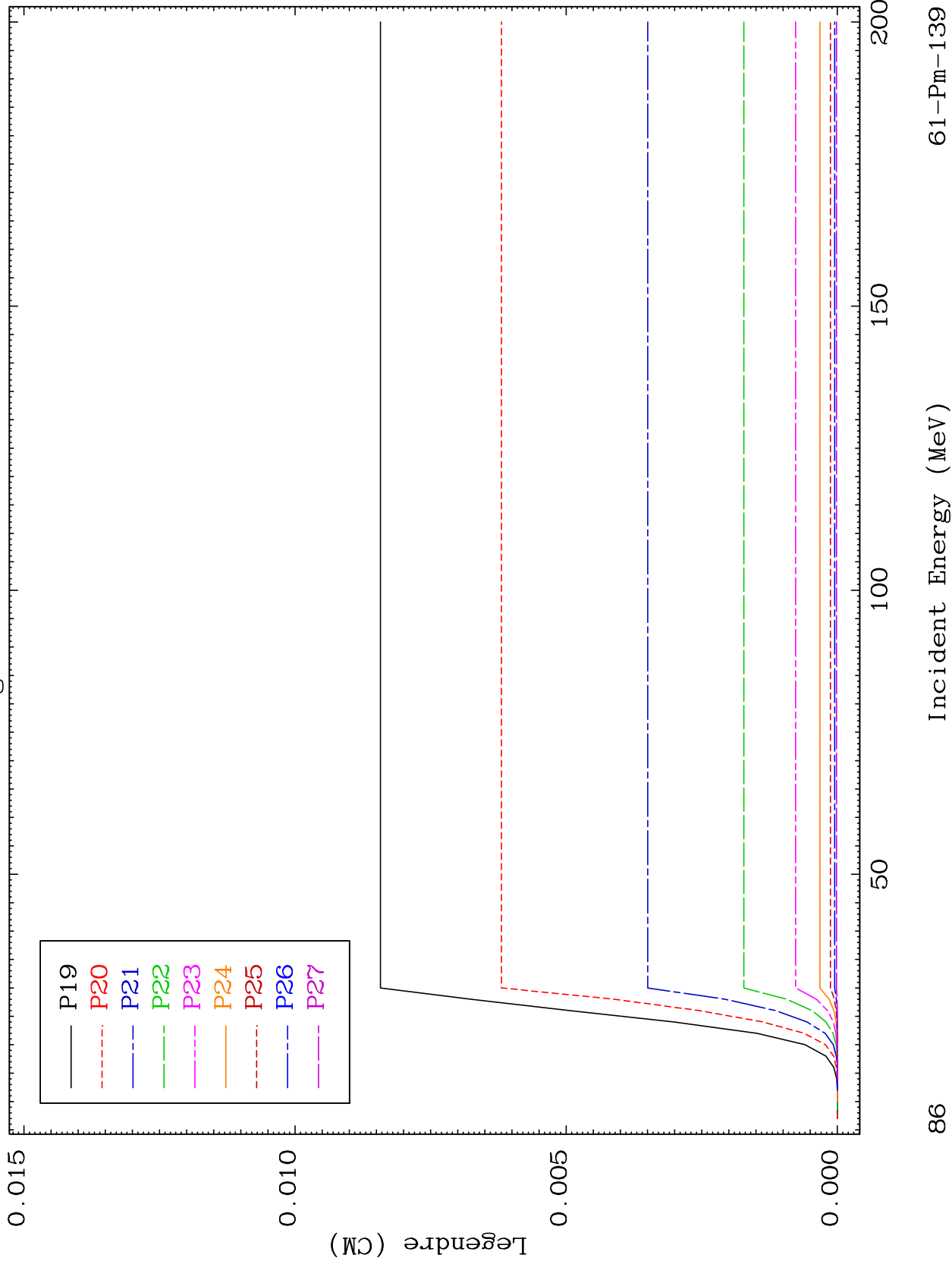
MT= 68 (n,n') Level  
Legendre Coefficients

61-Pm-139





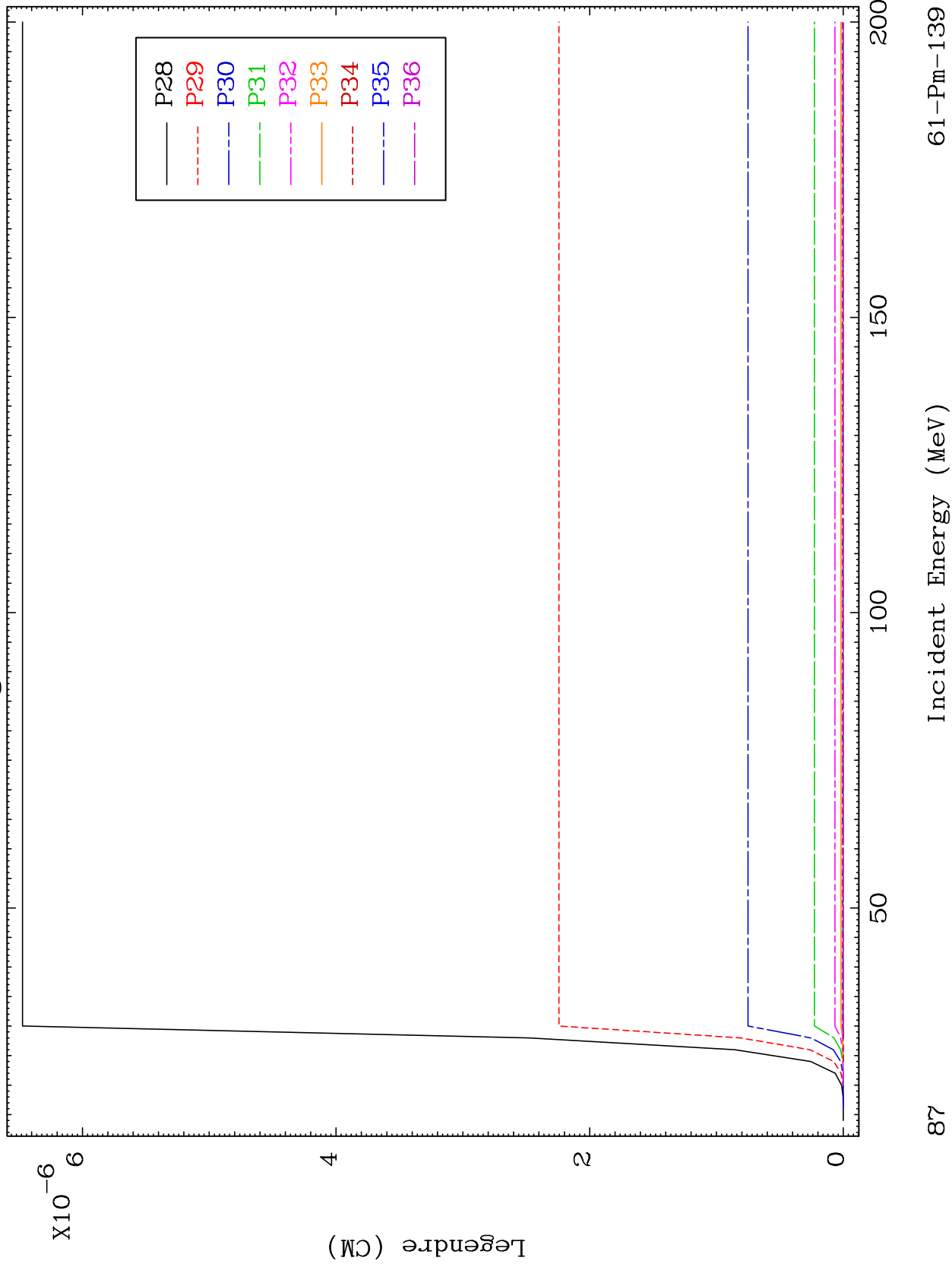




MAT 6125

MT= 69 (n,n') Level  
Legendre Coefficients

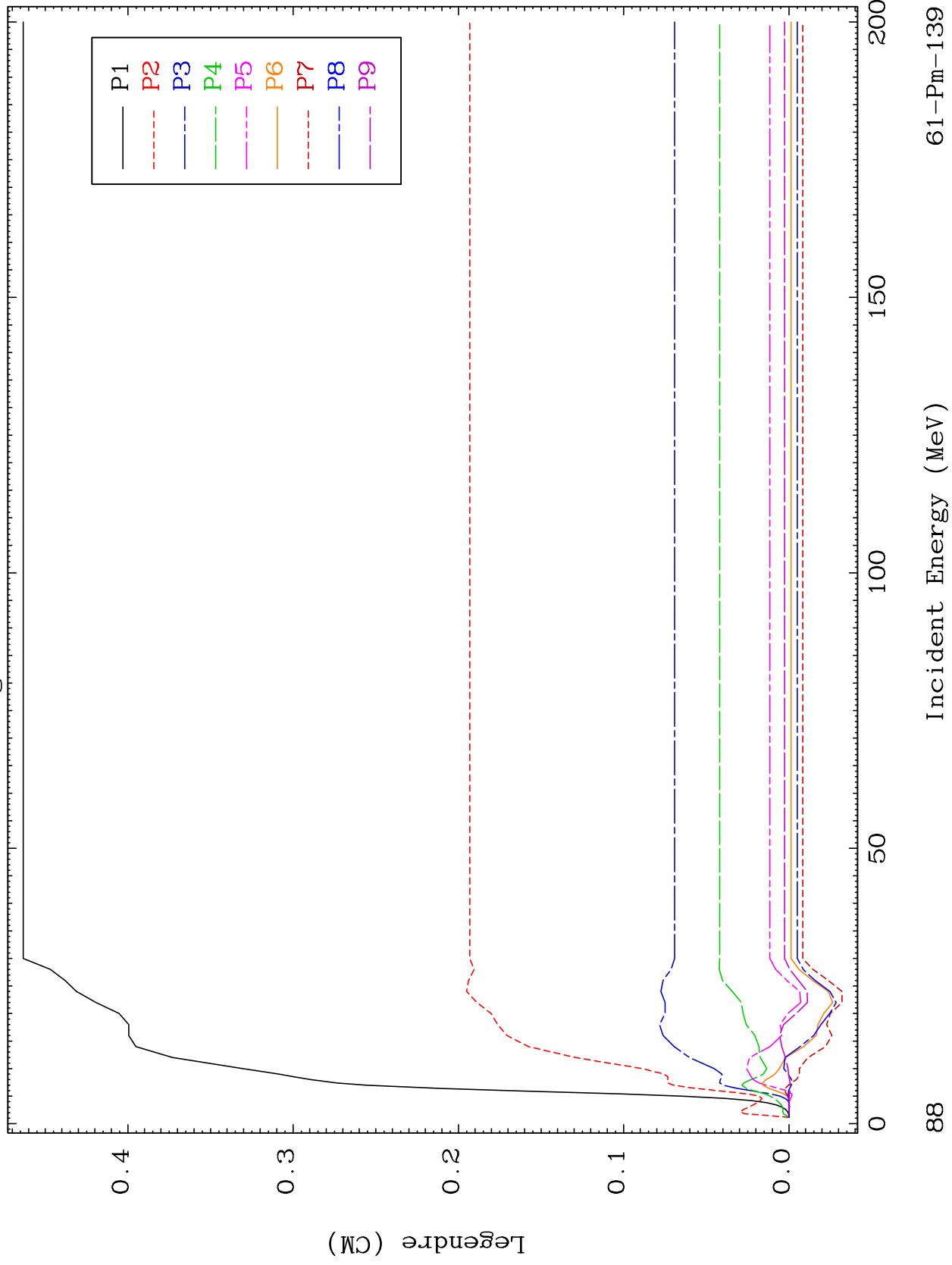
61-Pm-139



MAT 6125

MT= 70 (n,n') Level  
Legendre Coefficients

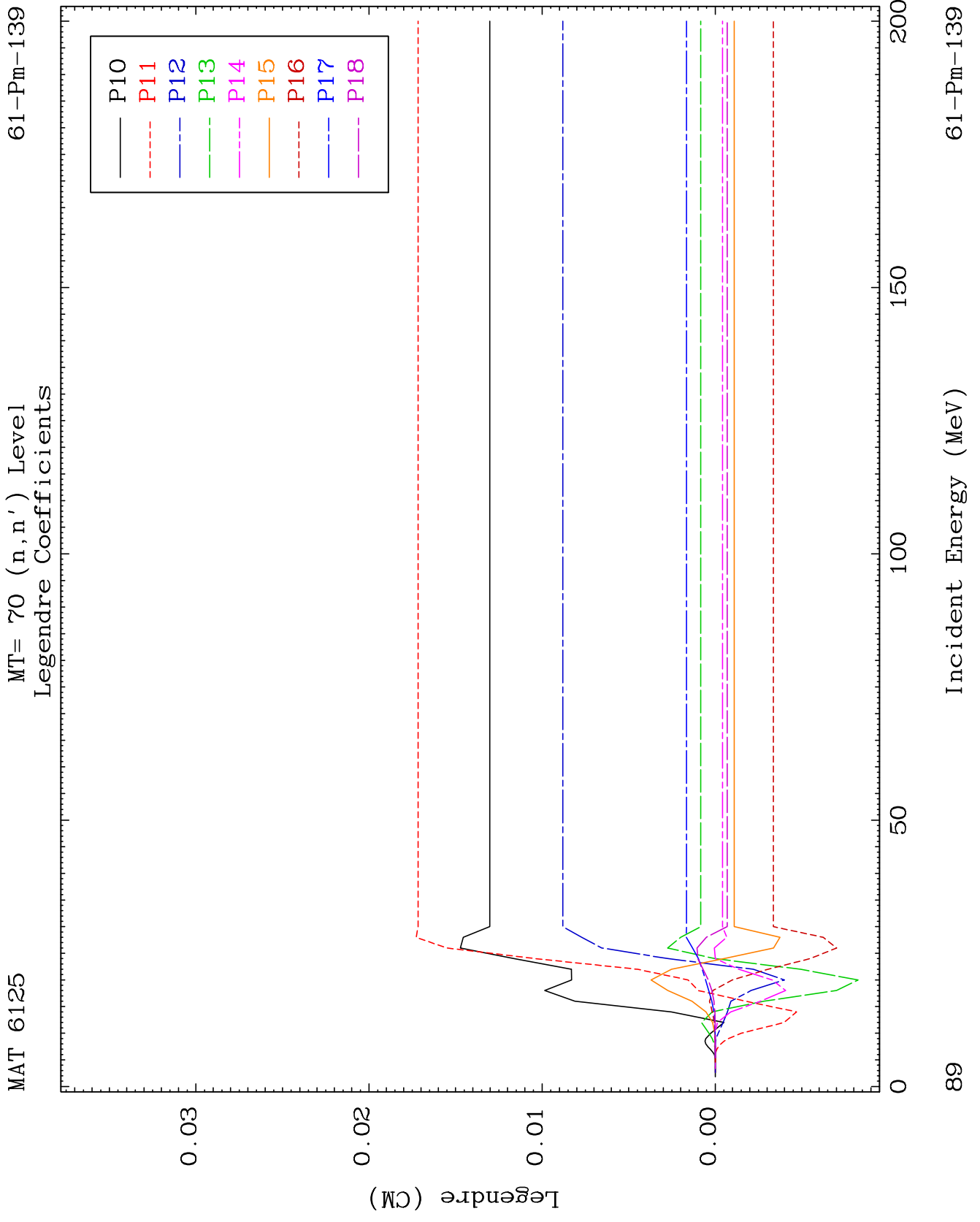
61-Pm-139



88

Incident Energy (MeV)

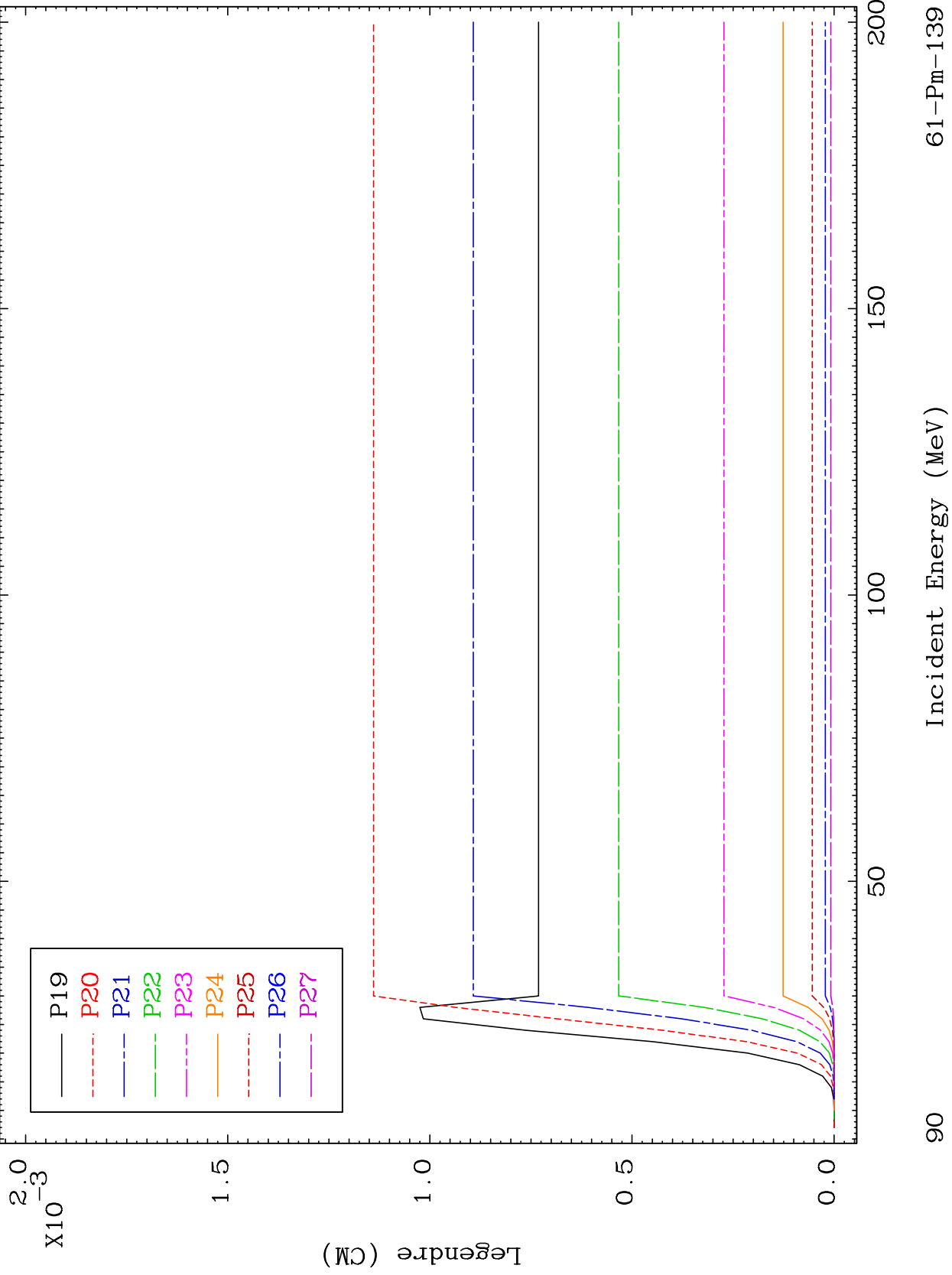
61-Pm-139



MAT 6125

MT= 70 (n,n') Level  
Legendre Coefficients

61-Pm-139



90

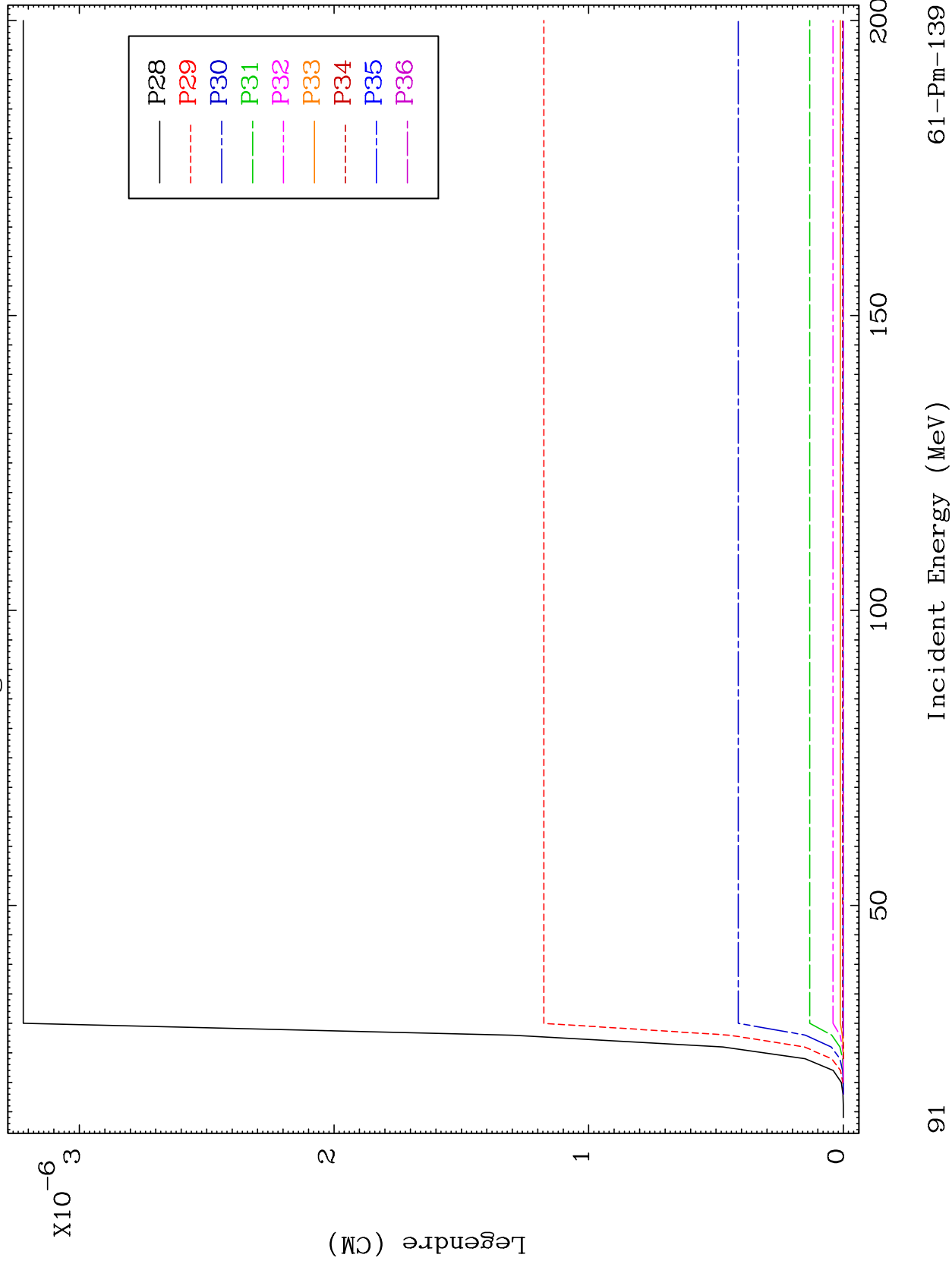
Incident Energy (MeV)

61-Pm-139

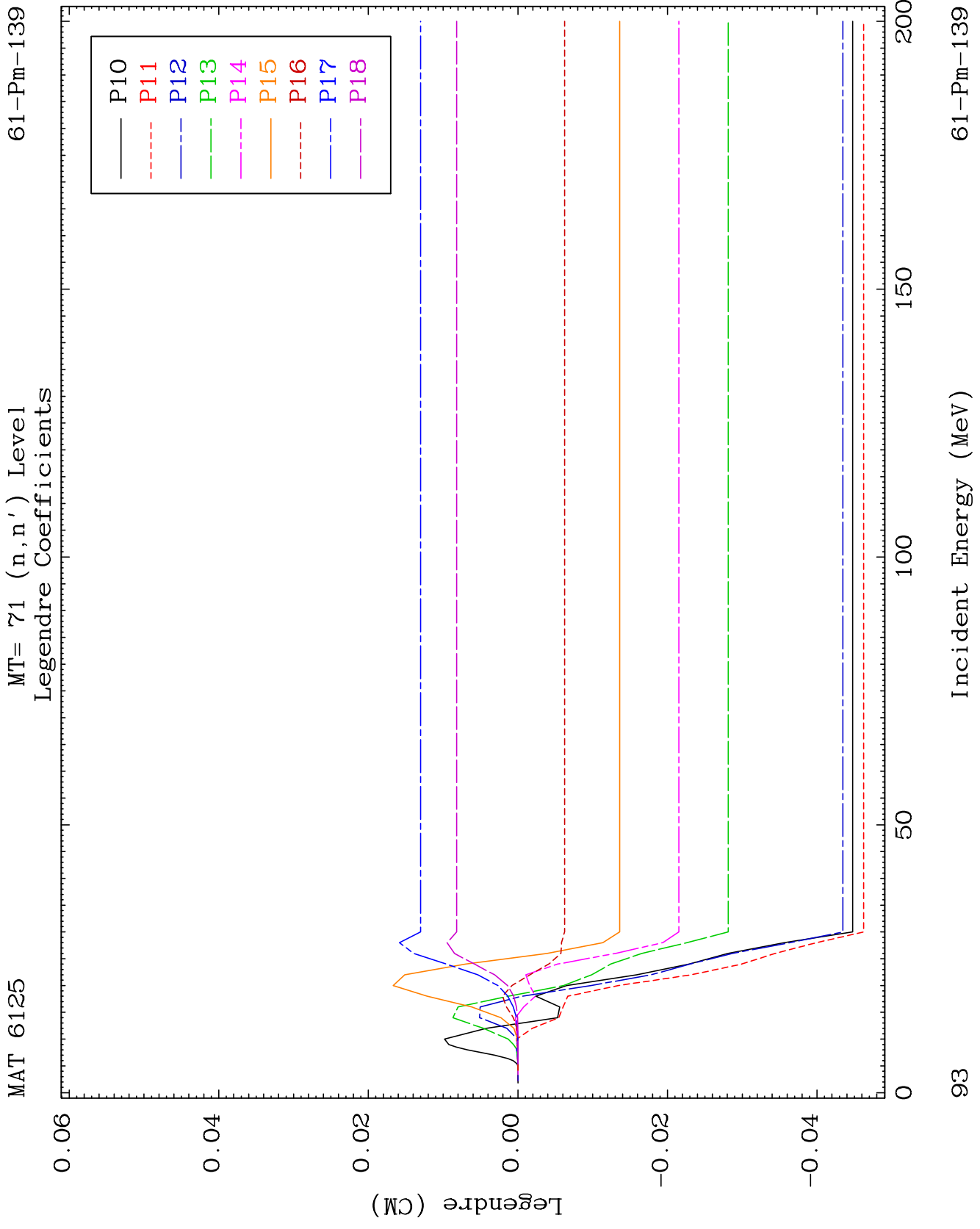
MAT 6125

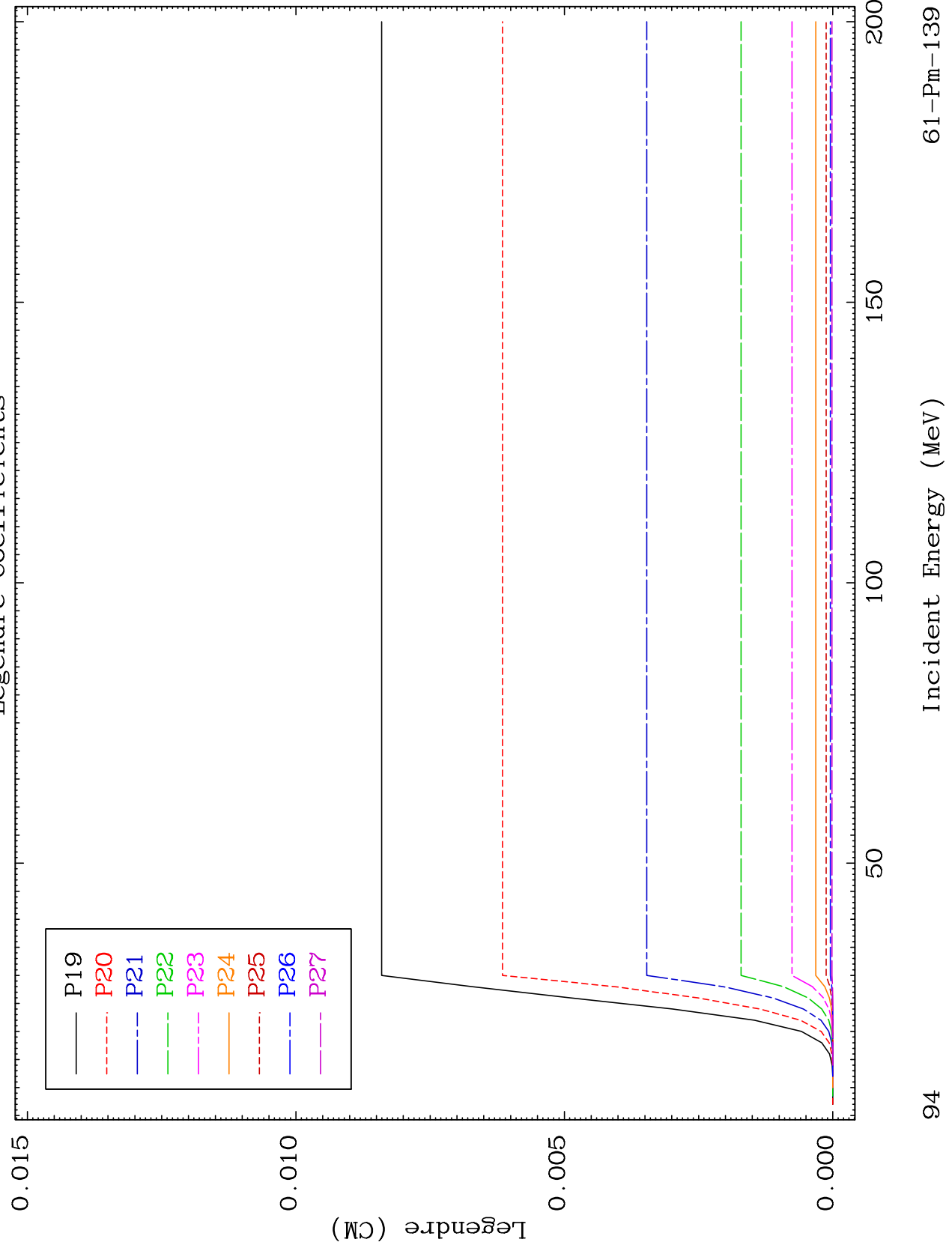
MT= 70 (n,n') Level  
Legendre Coefficients

61-Pm-139





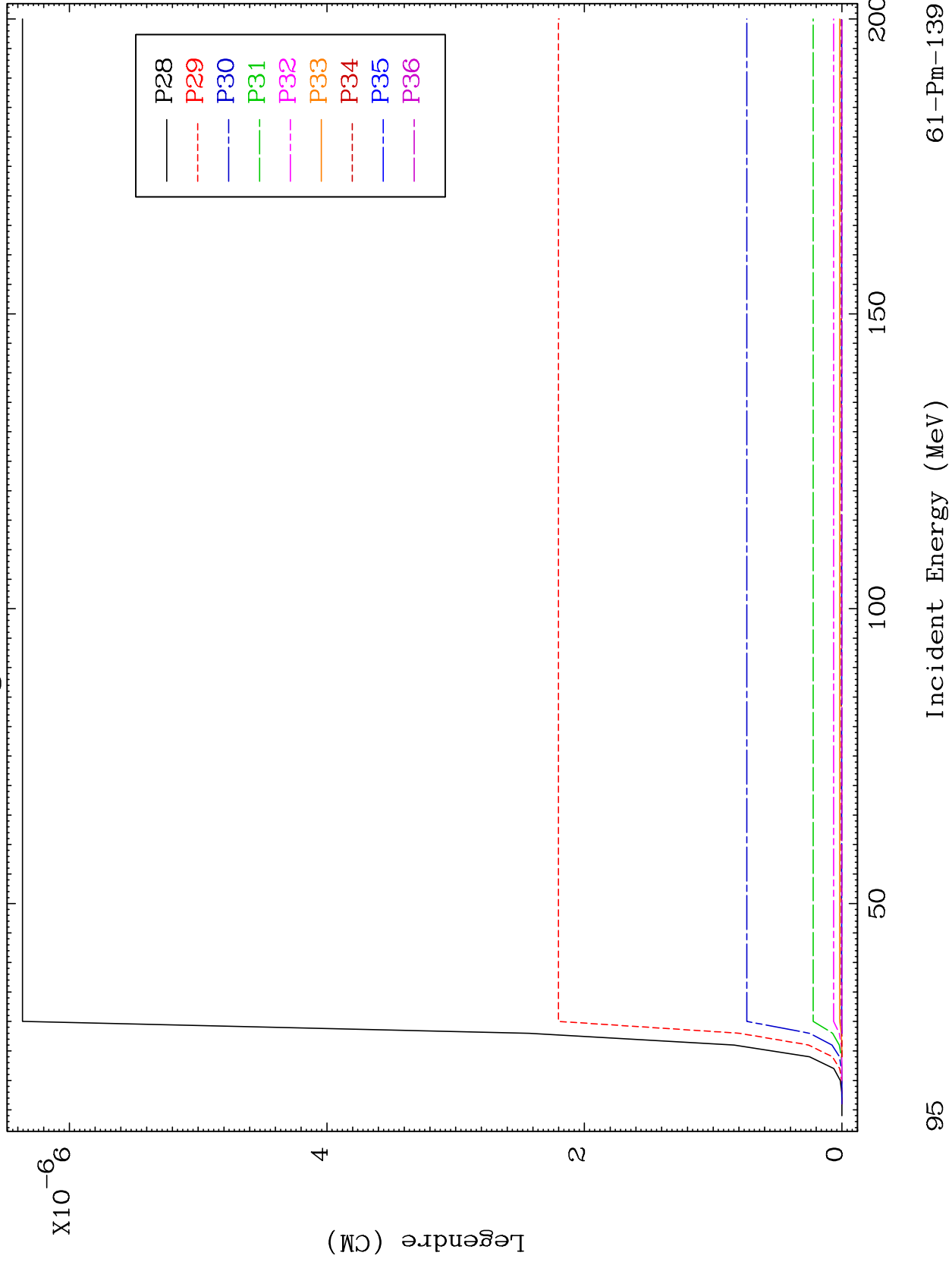




MAT 6125

MT= 71 (n,n') Level  
Legendre Coefficients

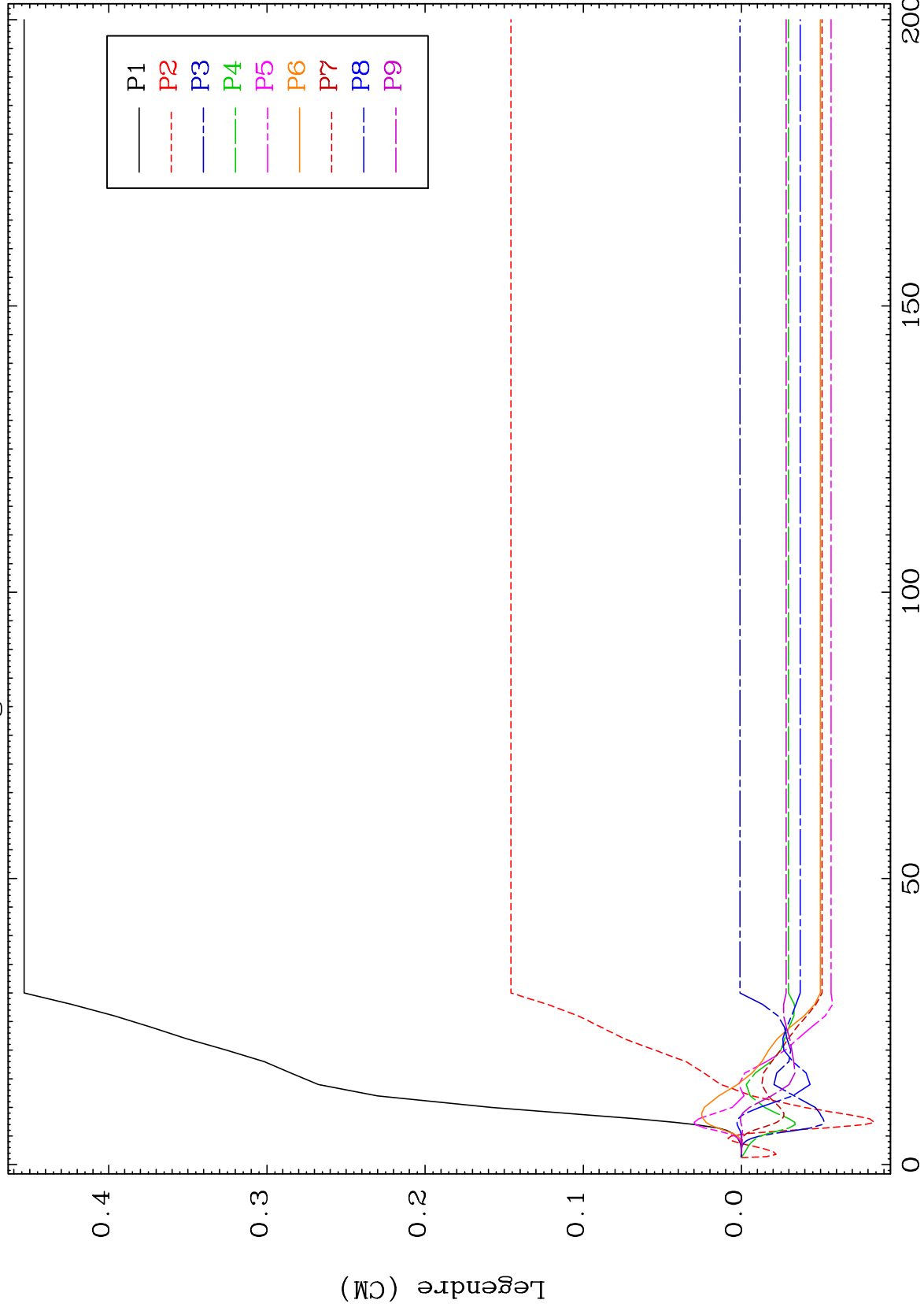
61-Pm-139



MAT 6125

MT= 72 (n,n') Level  
Legendre Coefficients

61-Pm-139



96

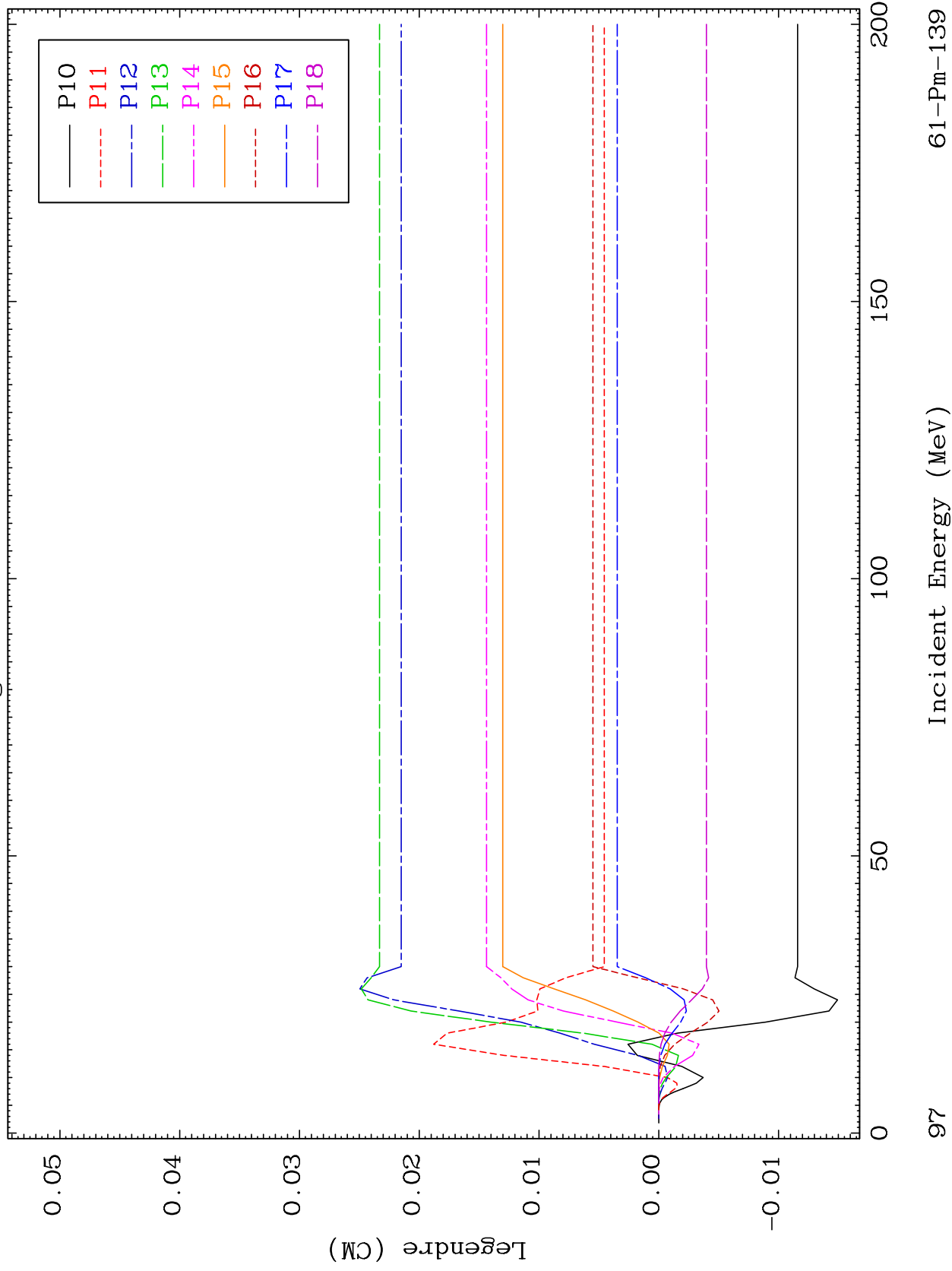
Incident Energy (MeV)

61-Pm-139

MAT 6125

MT= 72 (n,n') Level  
Legendre Coefficients

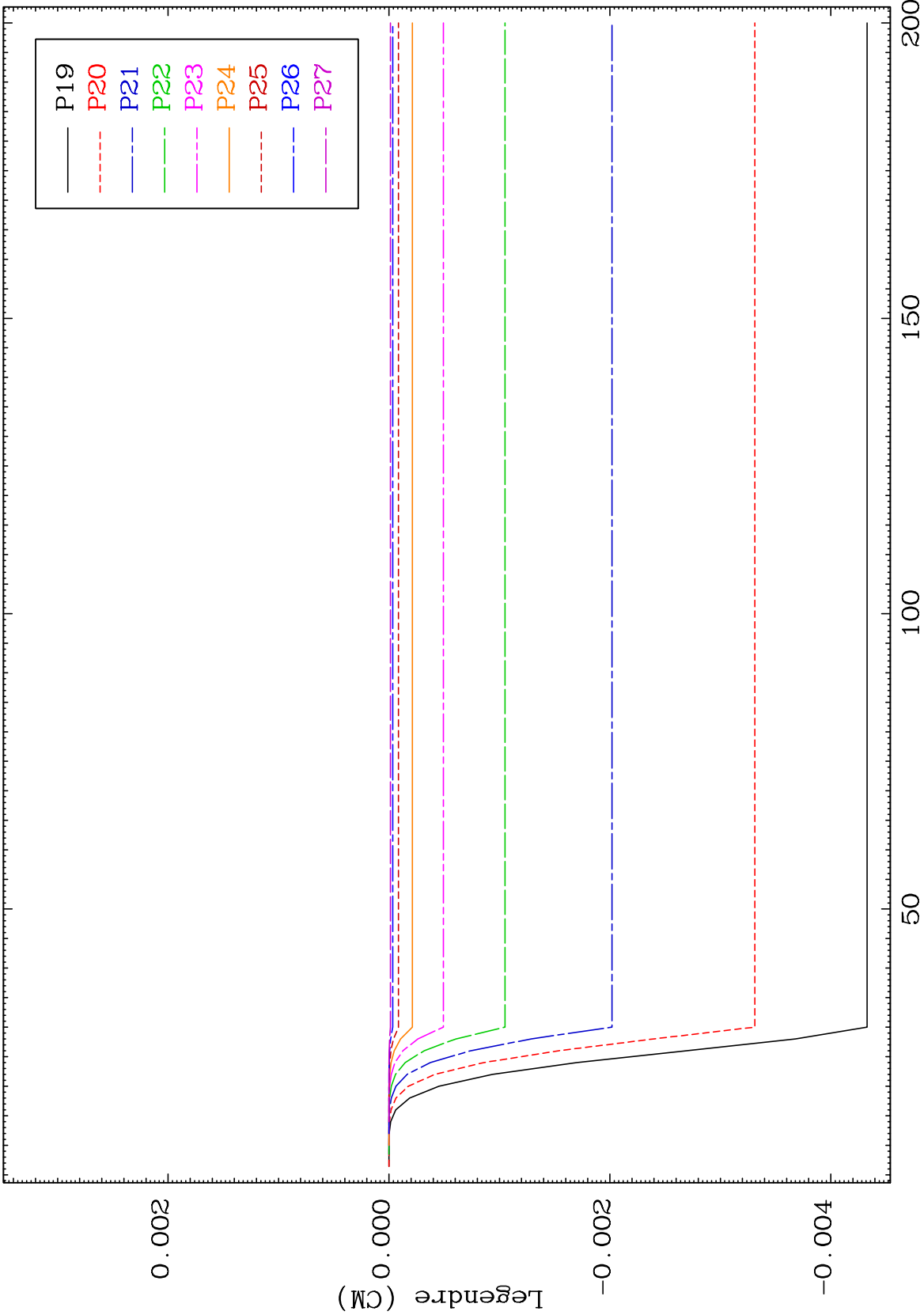
61-Pm-139



MAT 6125

MT= 72 (n,n') Level  
Legendre Coefficients

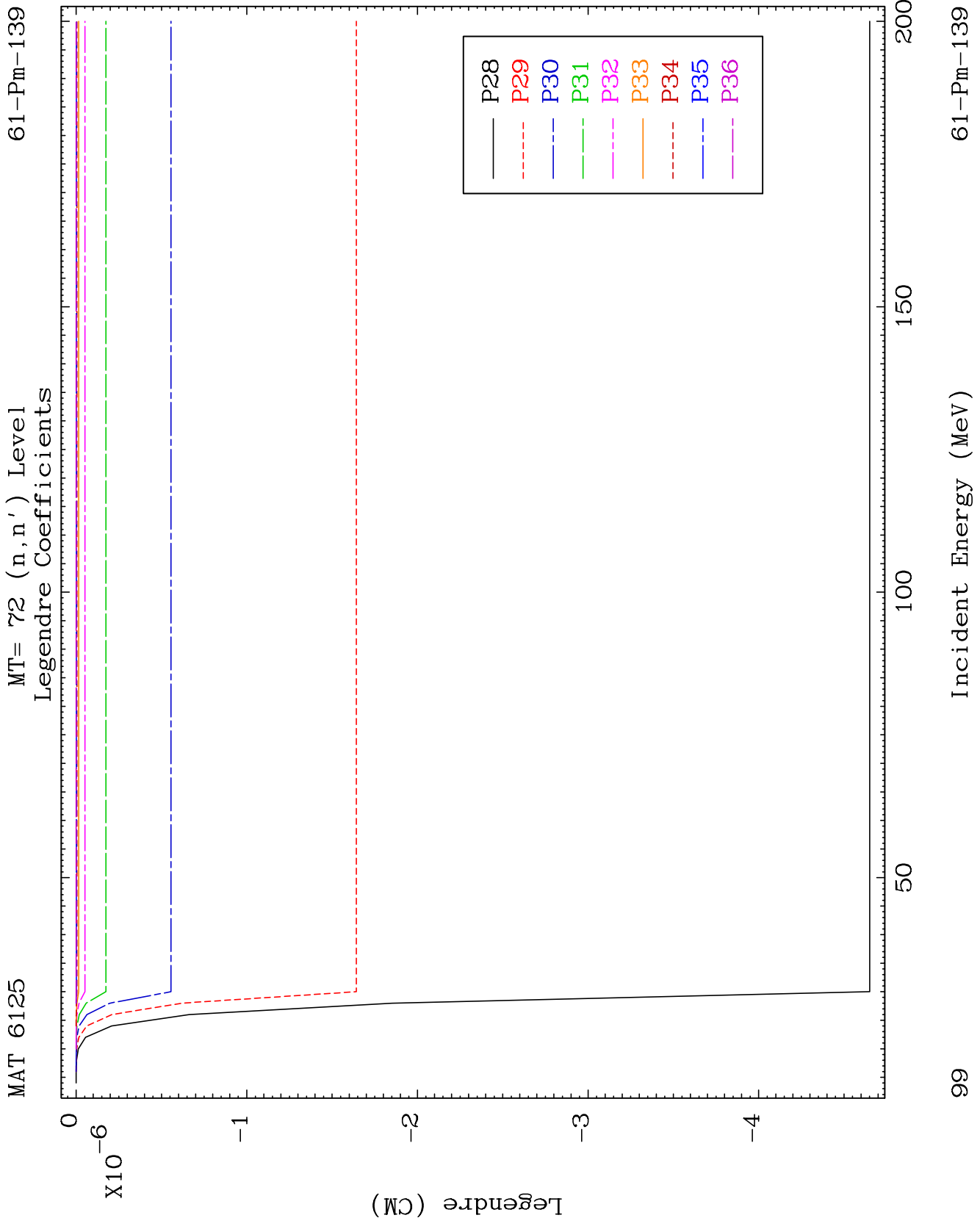
61-Pm-139



98

Incident Energy (MeV)

61-Pm-139

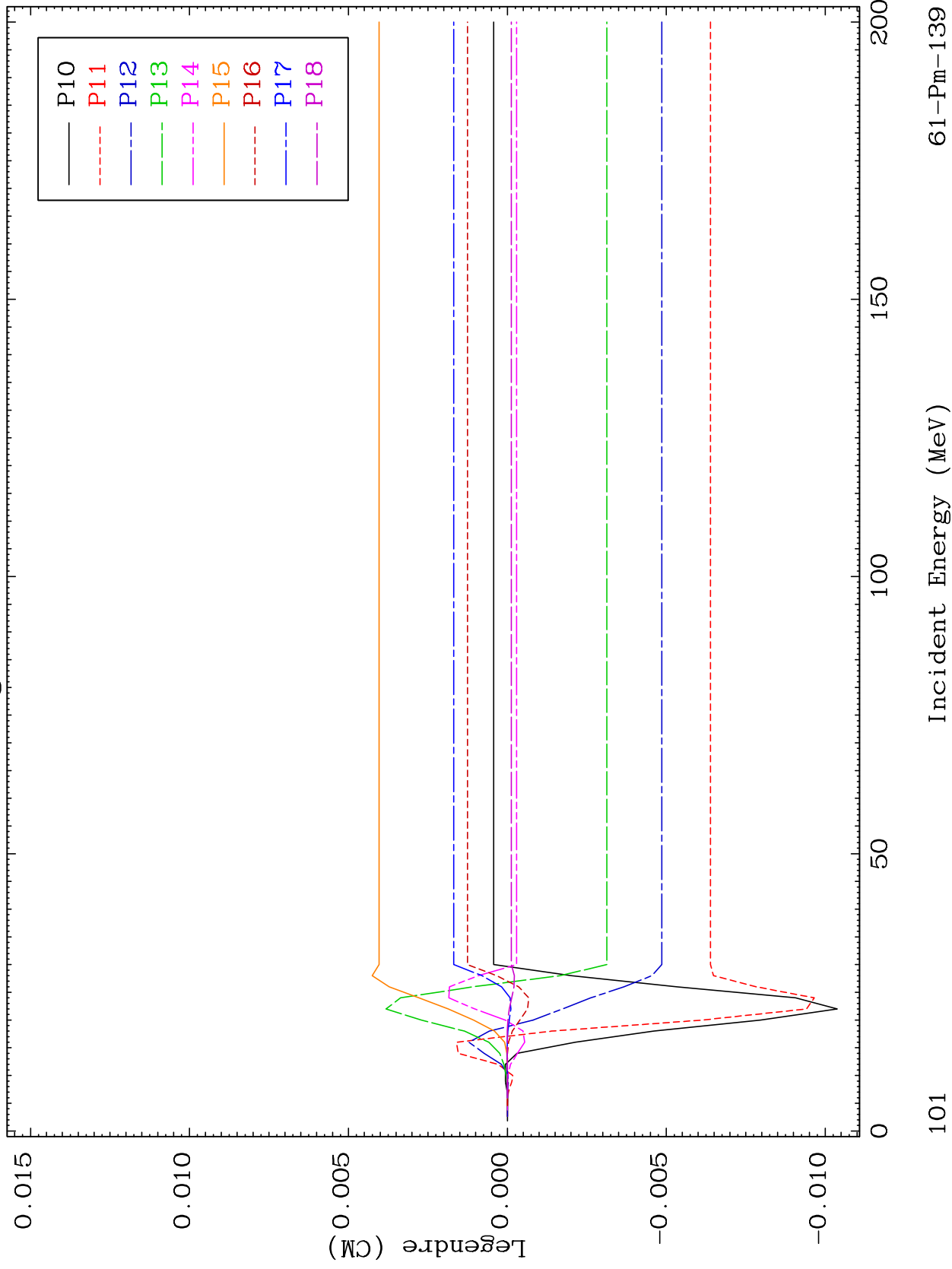




MAT 6125

MT= 73 (n,n') Level  
Legendre Coefficients

61-Pm-139



101

Incident Energy (MeV)

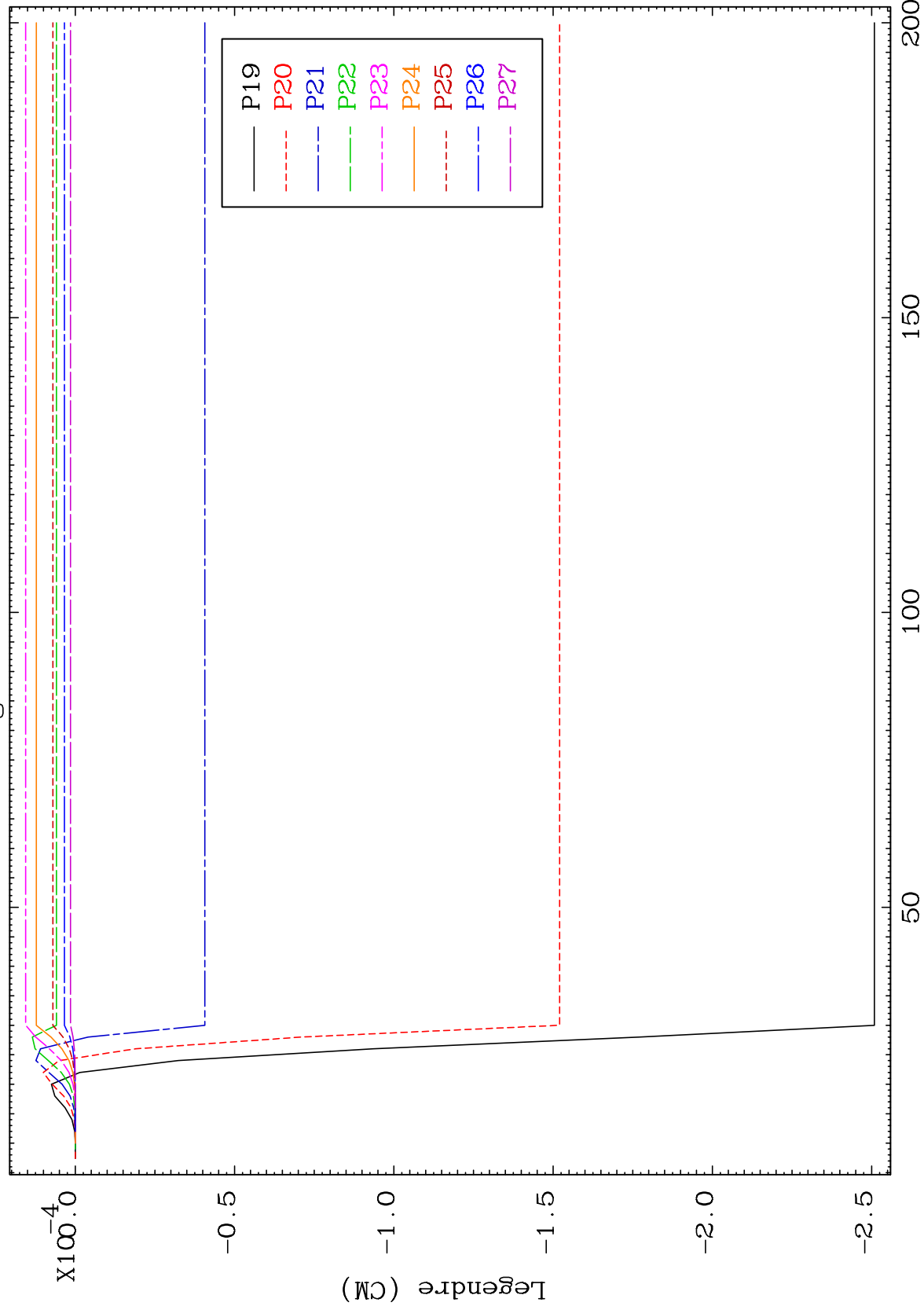
61-Pm-139

MAT 6125

MT= 73 (n,n') Level

61-Pm-139

Legendre Coefficients



102

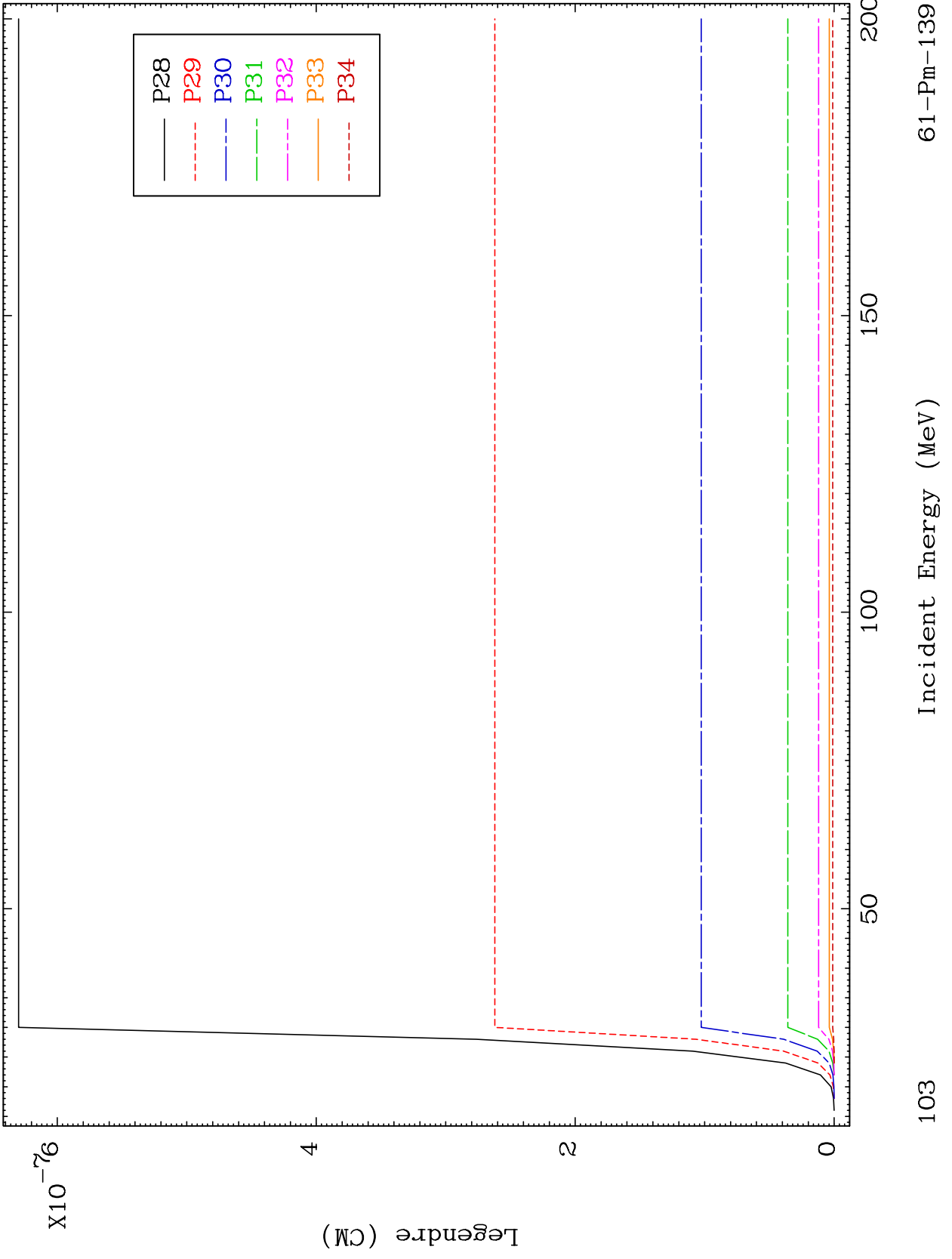
Incident Energy (MeV)

61-Pm-139

MAT 6125

MT= 73 (n,n') Level  
Legendre Coefficients

61-Pm-139



103

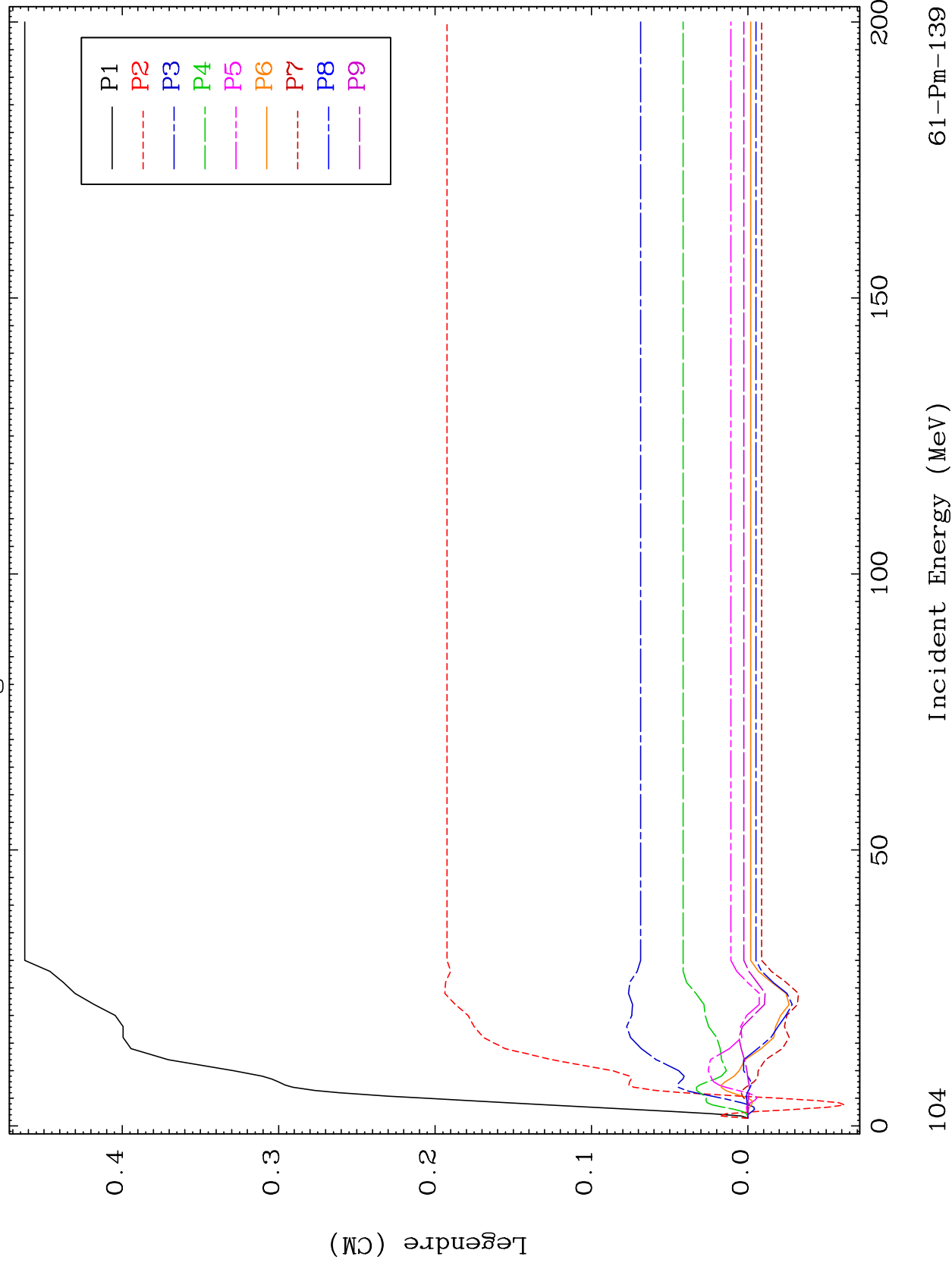
Incident Energy (MeV)

61-Pm-139

MAT 6125

MT= 74 (n,n') Level  
Legendre Coefficients

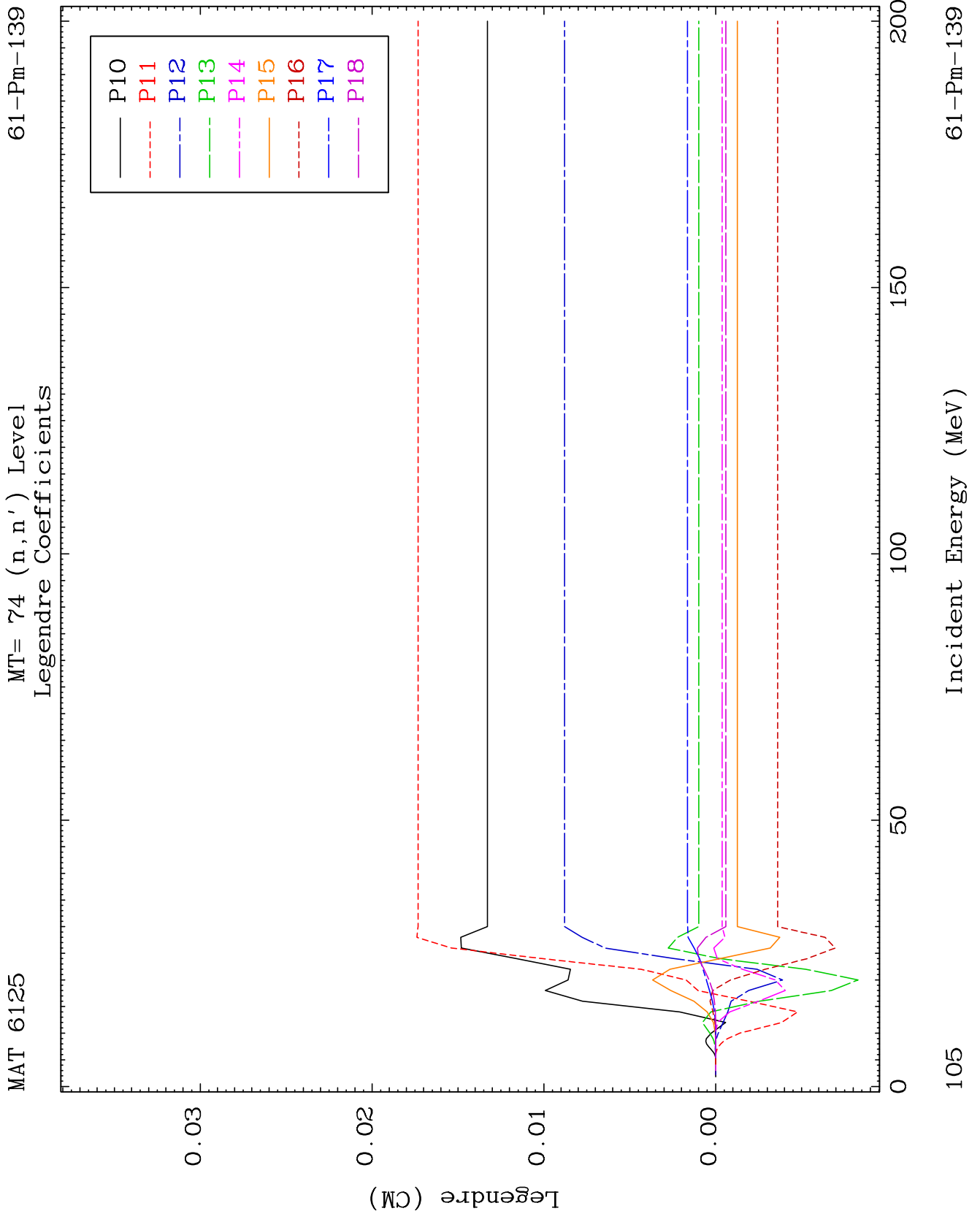
61-Pm-139



61-Pm-139

Incident Energy (MeV)

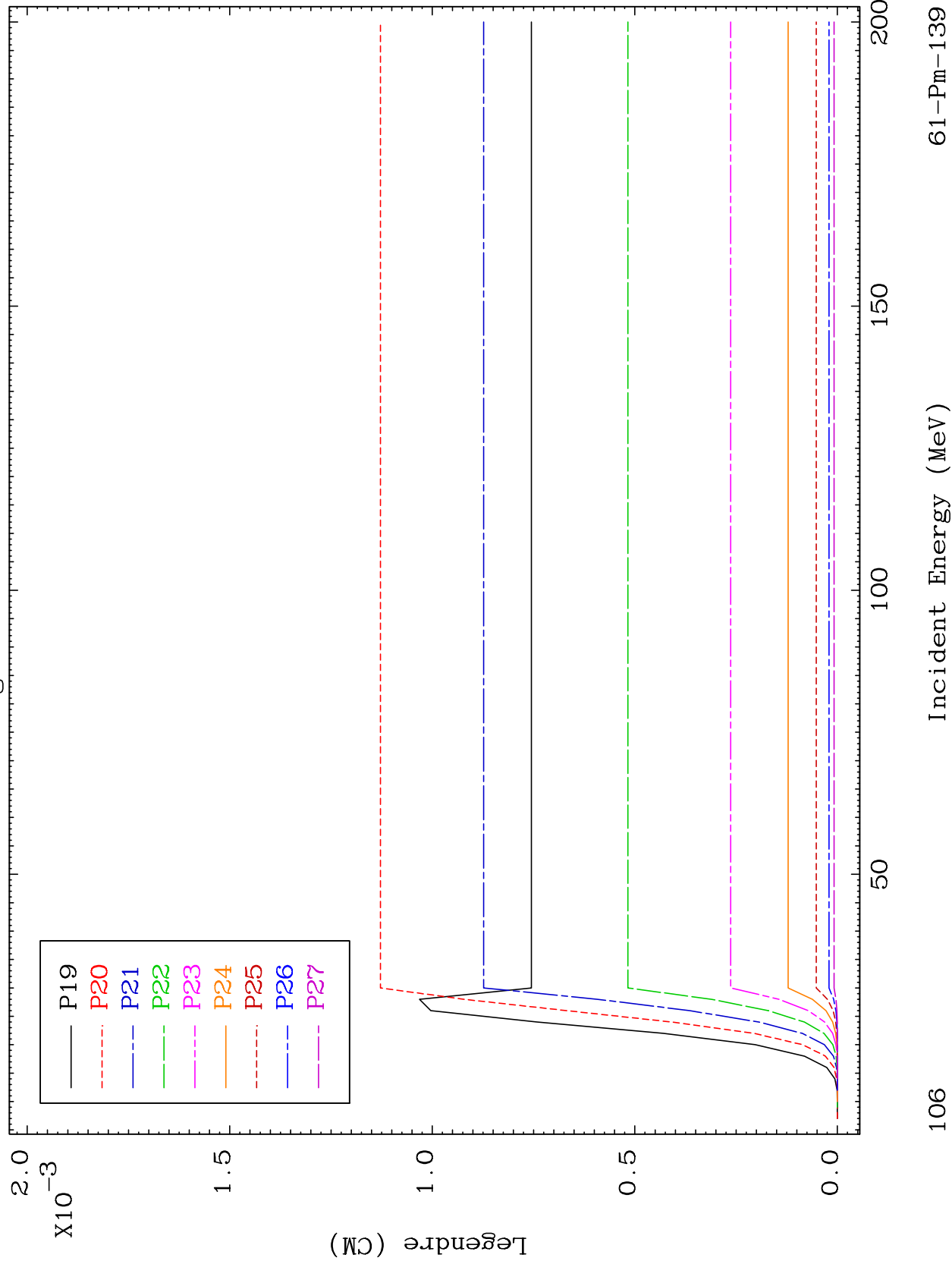
104



MAT 6125

MT= 74 (n,n') Level  
Legendre Coefficients

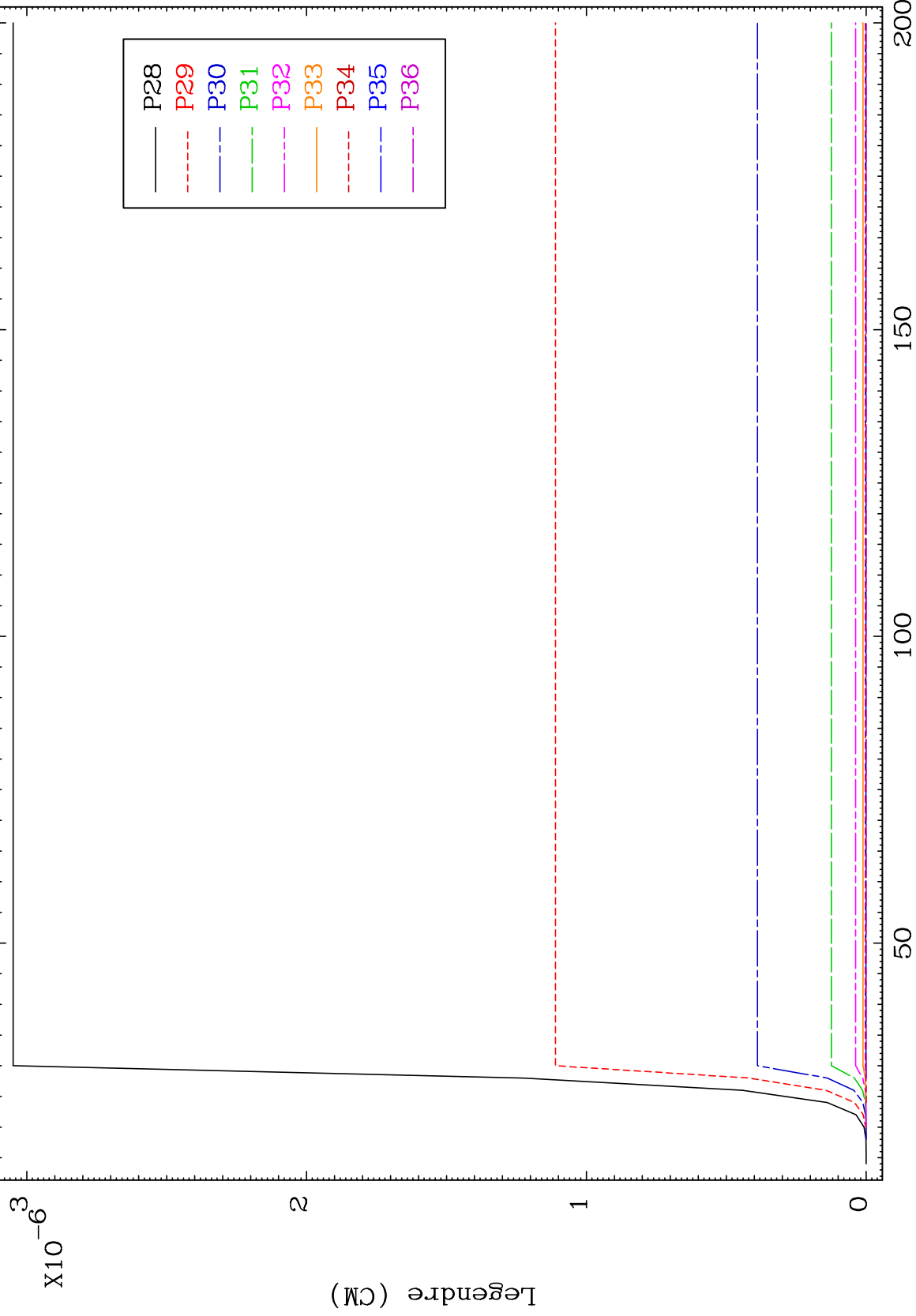
61-Pm-139



MAT 6125

MT= 74 (n,n') Level  
Legendre Coefficients

61-Pm-139



107

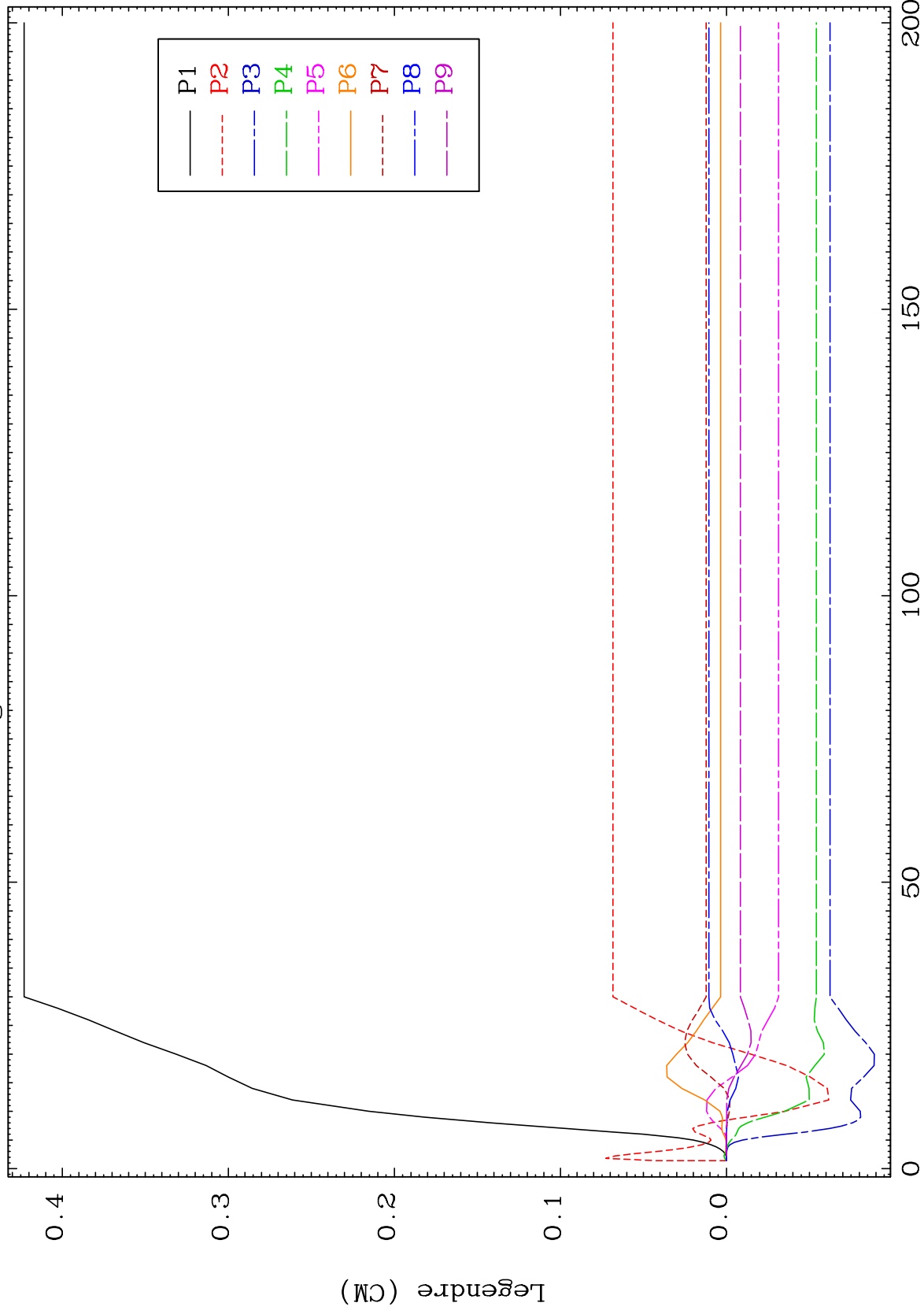
Incident Energy (MeV)

61-Pm-139

MAT 6125

MT= 75 (n,n') Level  
Legendre Coefficients

61-Pm-139



61-Pm-139

Incident Energy (MeV)

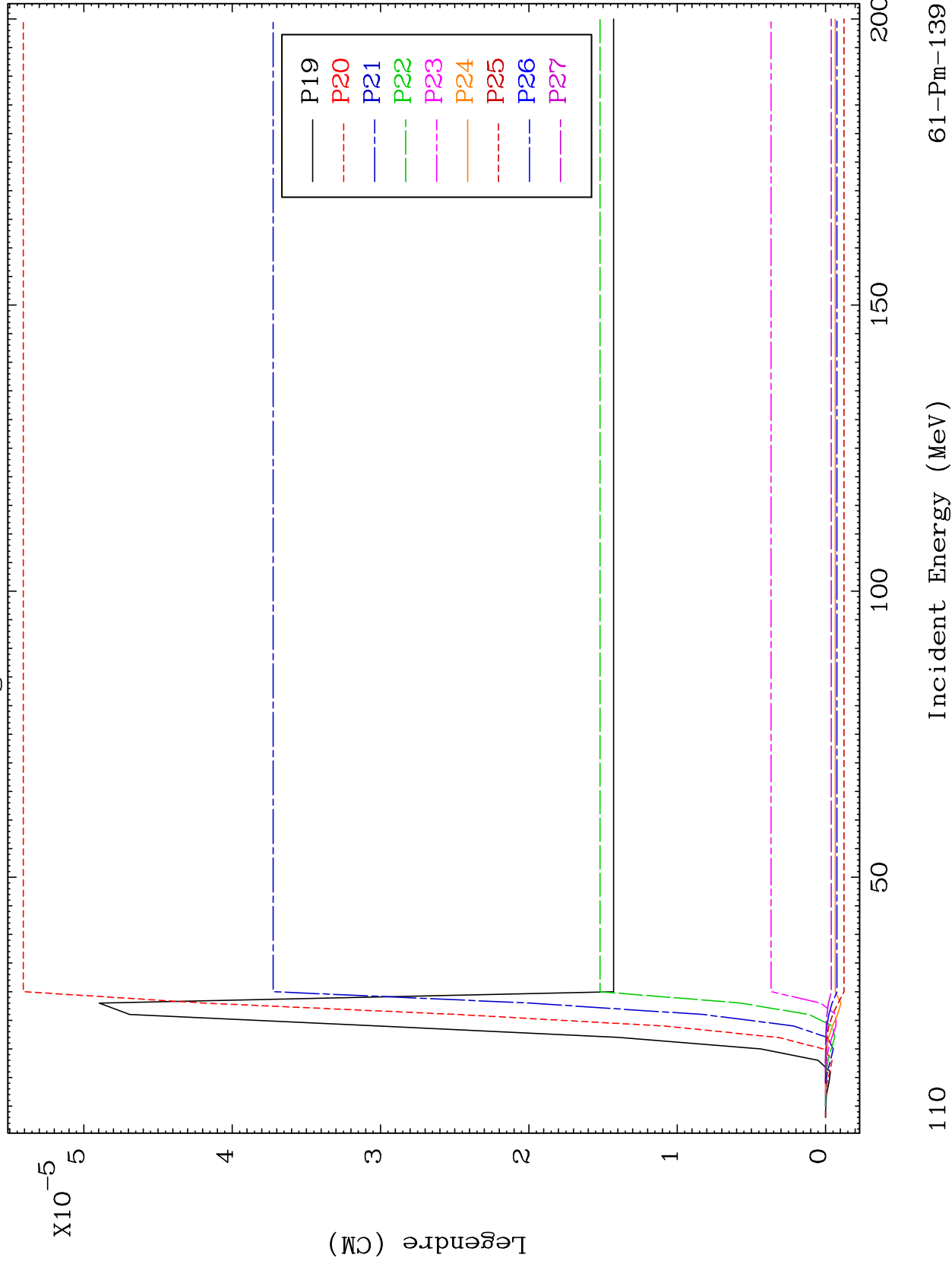
108

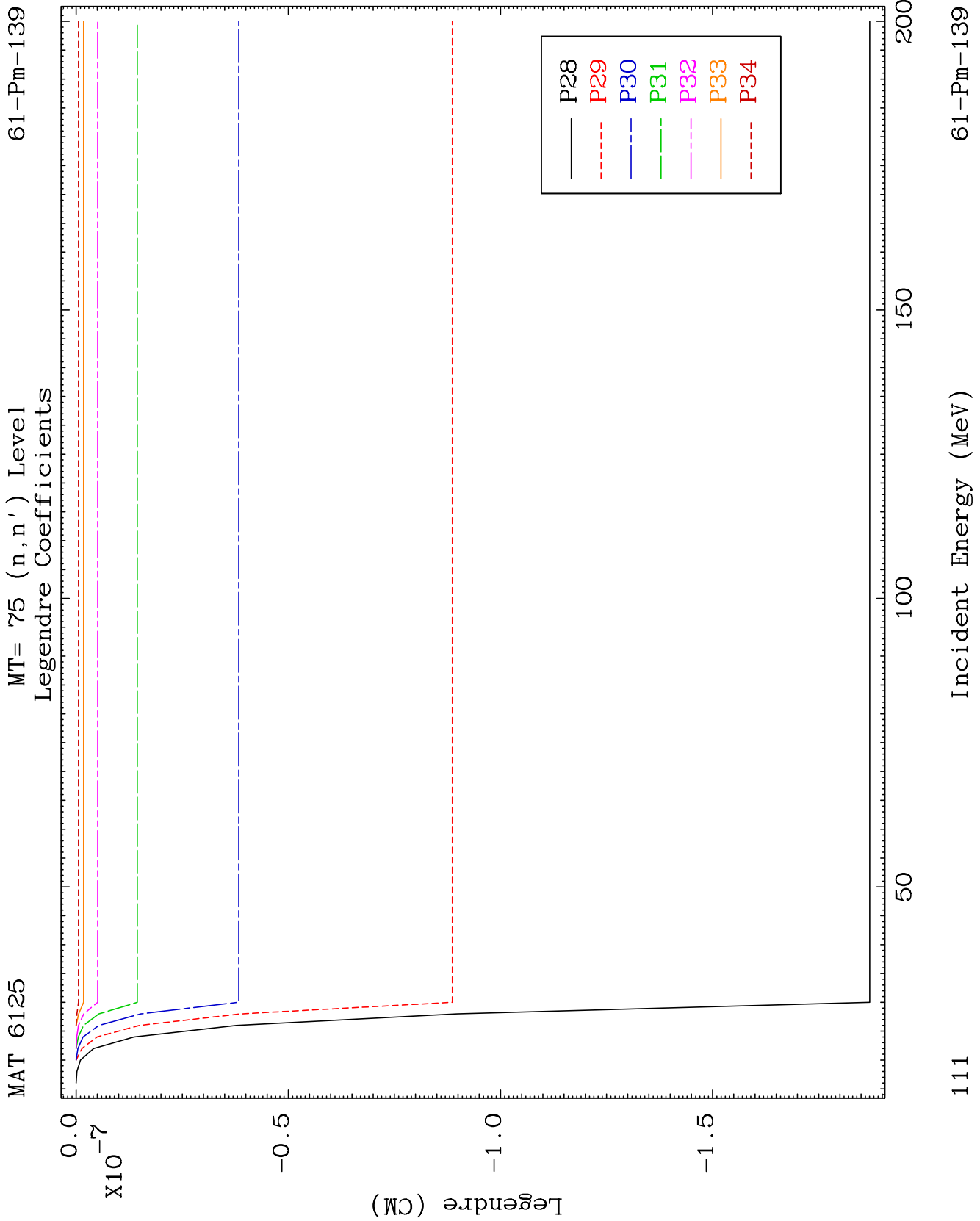


MAT 6125

MT= 75 (n,n') Level  
Legendre Coefficients

61-Pm-139

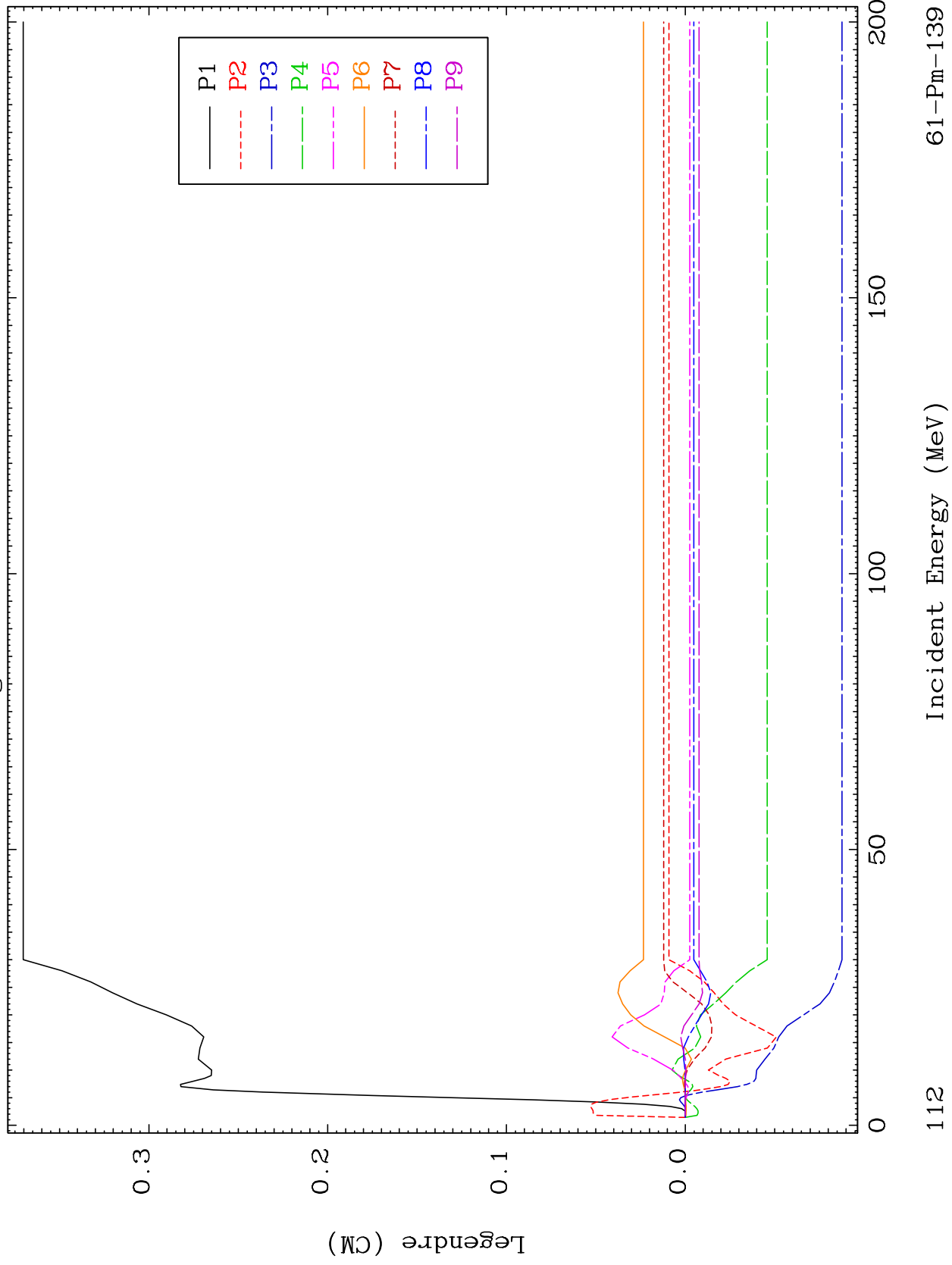




MAT 6125

MT= 76 (n,n') Level  
Legendre Coefficients

61-Pm-139



61-Pm-139

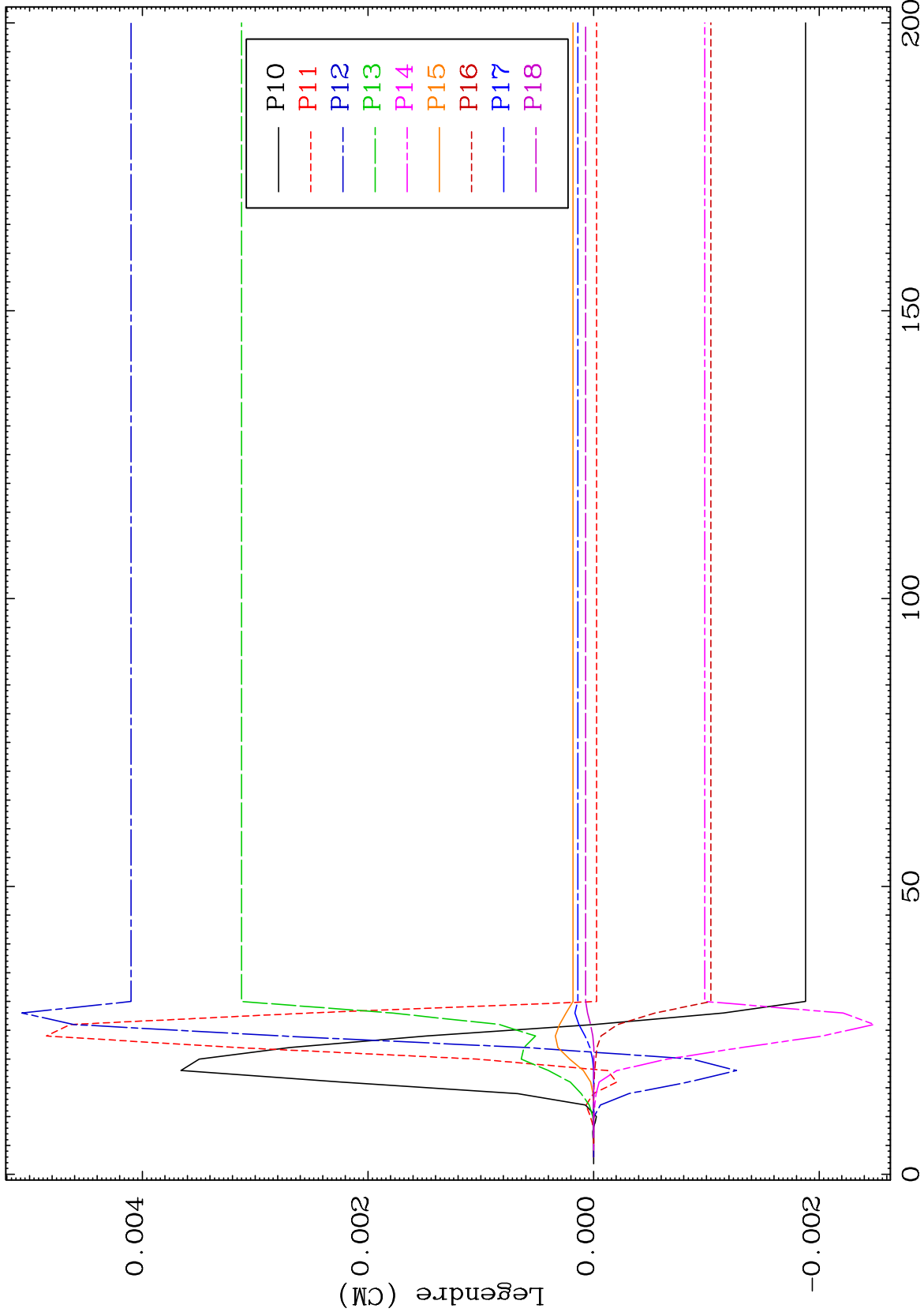
Incident Energy (MeV)

112

MAT 6125

MT= 76 (n,n') Level  
Legendre Coefficients

61-Pm-139



113

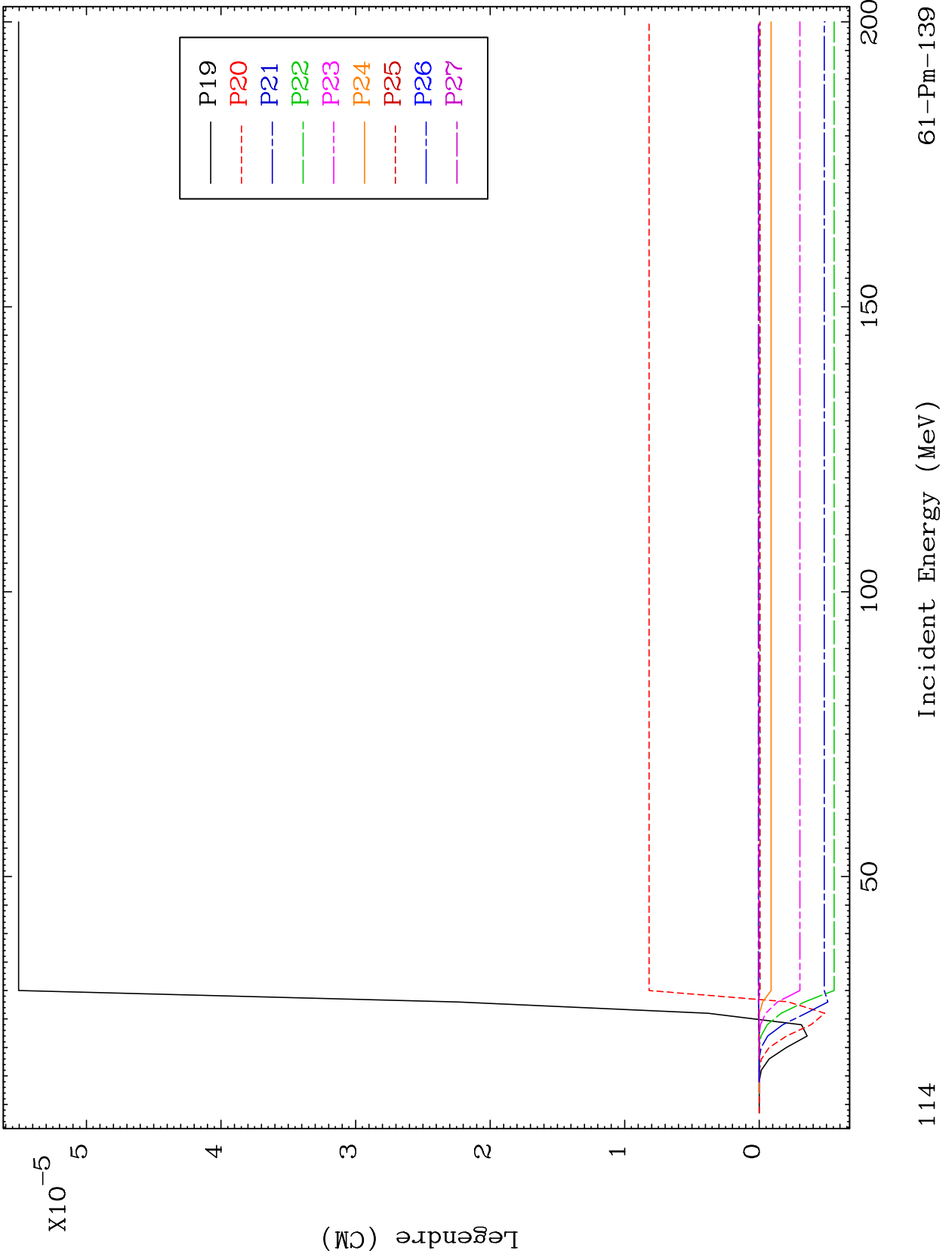
Incident Energy (MeV)

61-Pm-139

MAT 6125

MT= 76 (n,n') Level  
Legendre Coefficients

61-Pm-139

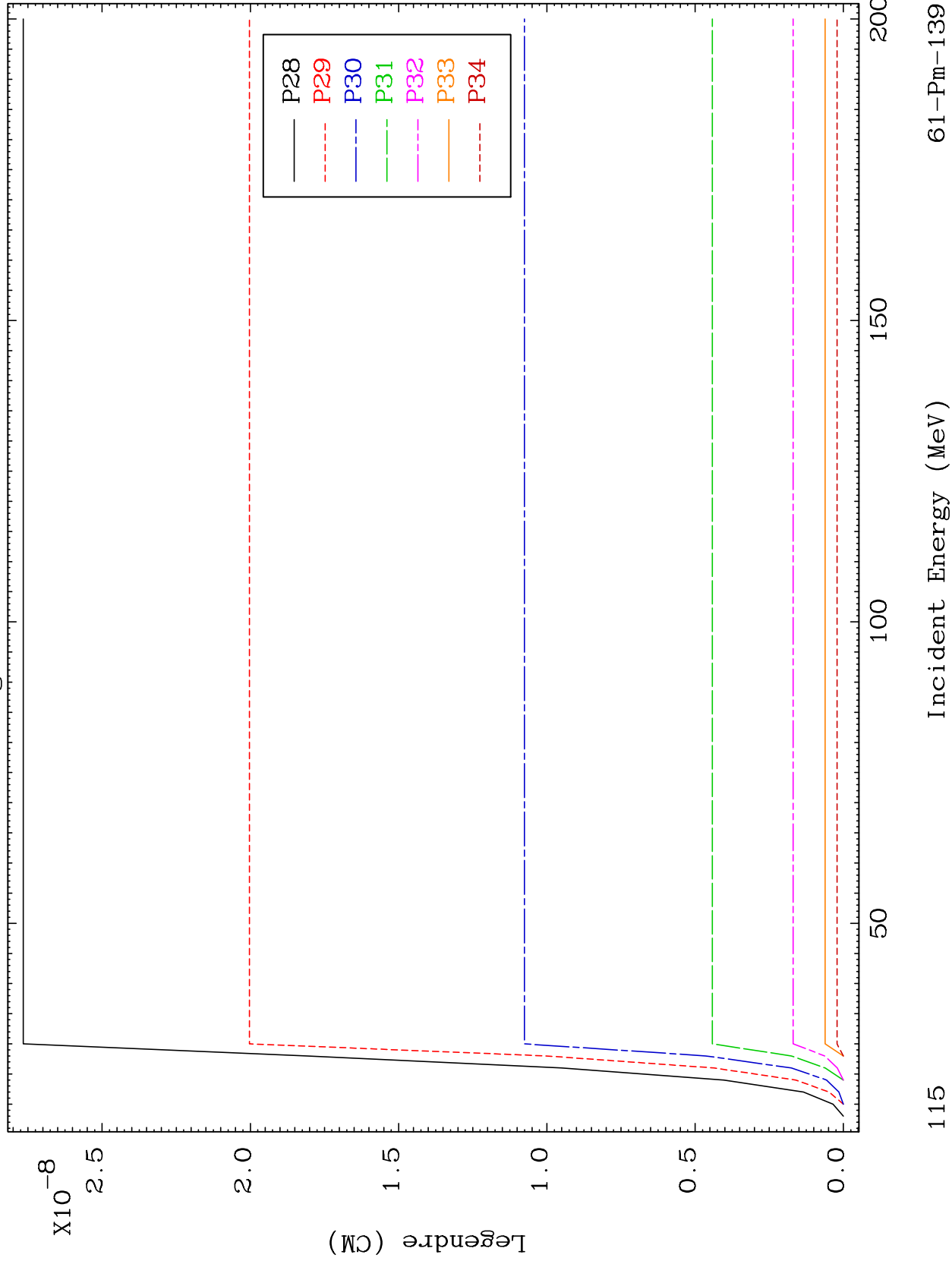


114

MAT 6125

MT= 76 (n,n') Level  
Legendre Coefficients

61-Pm-139



115

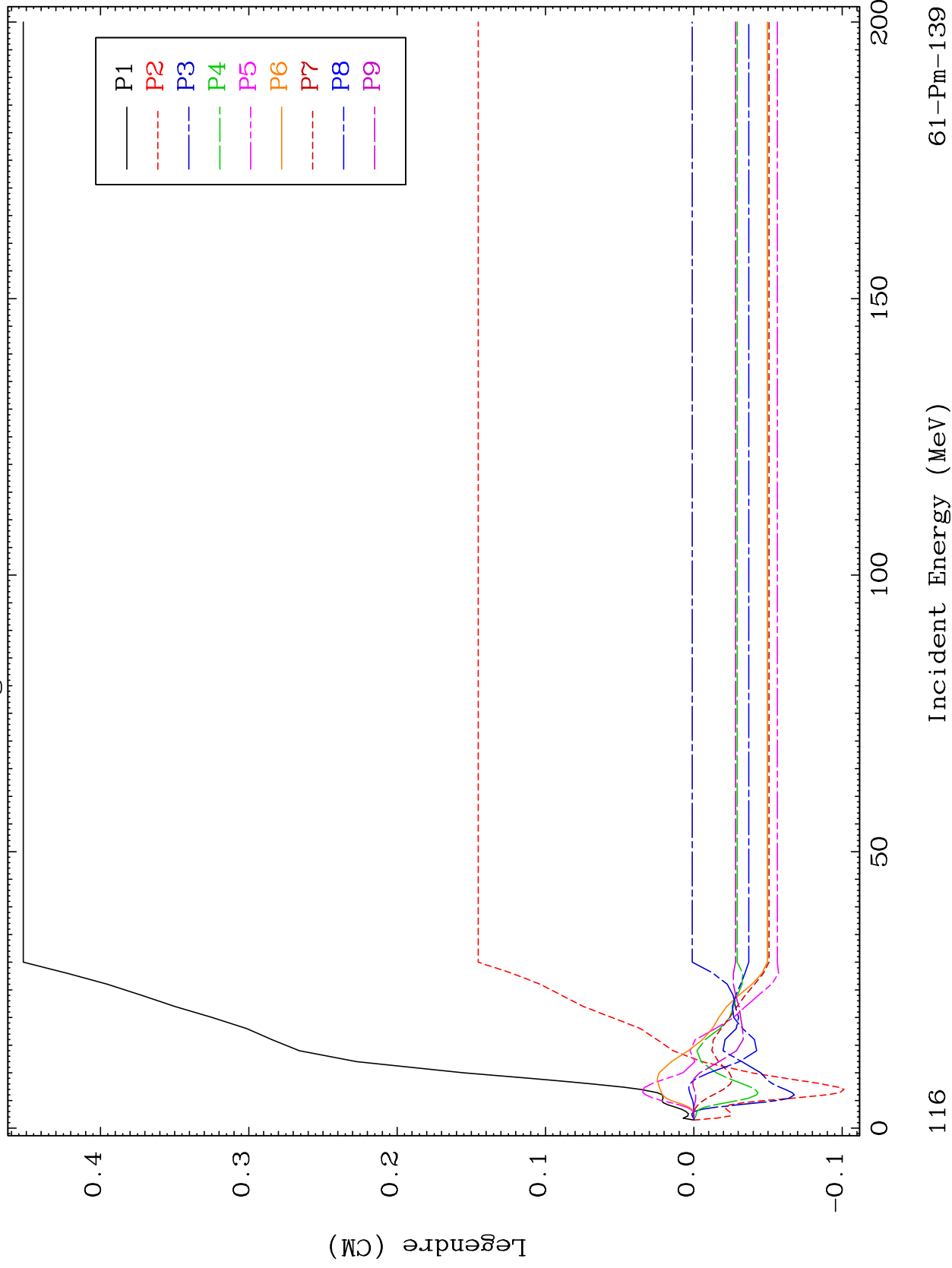
Incident Energy (MeV)

61-Pm-139

MAT 6125

MT= 77 (n,n') Level  
Legendre Coefficients

61-Pm-139



61-Pm-139

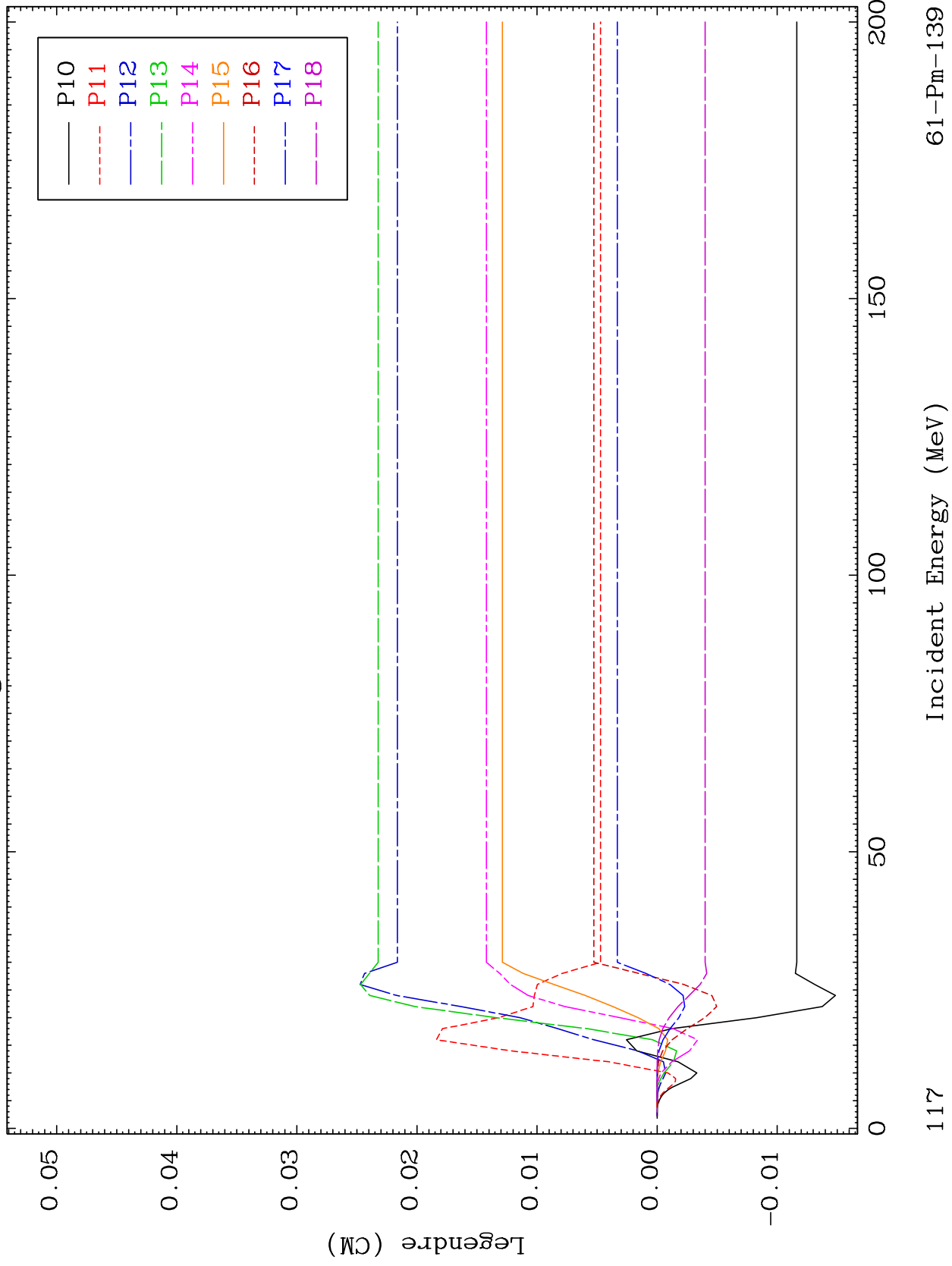
Incident Energy (MeV)

116

MAT 6125

MT= 77 (n,n') Level  
Legendre Coefficients

61-Pm-139



117

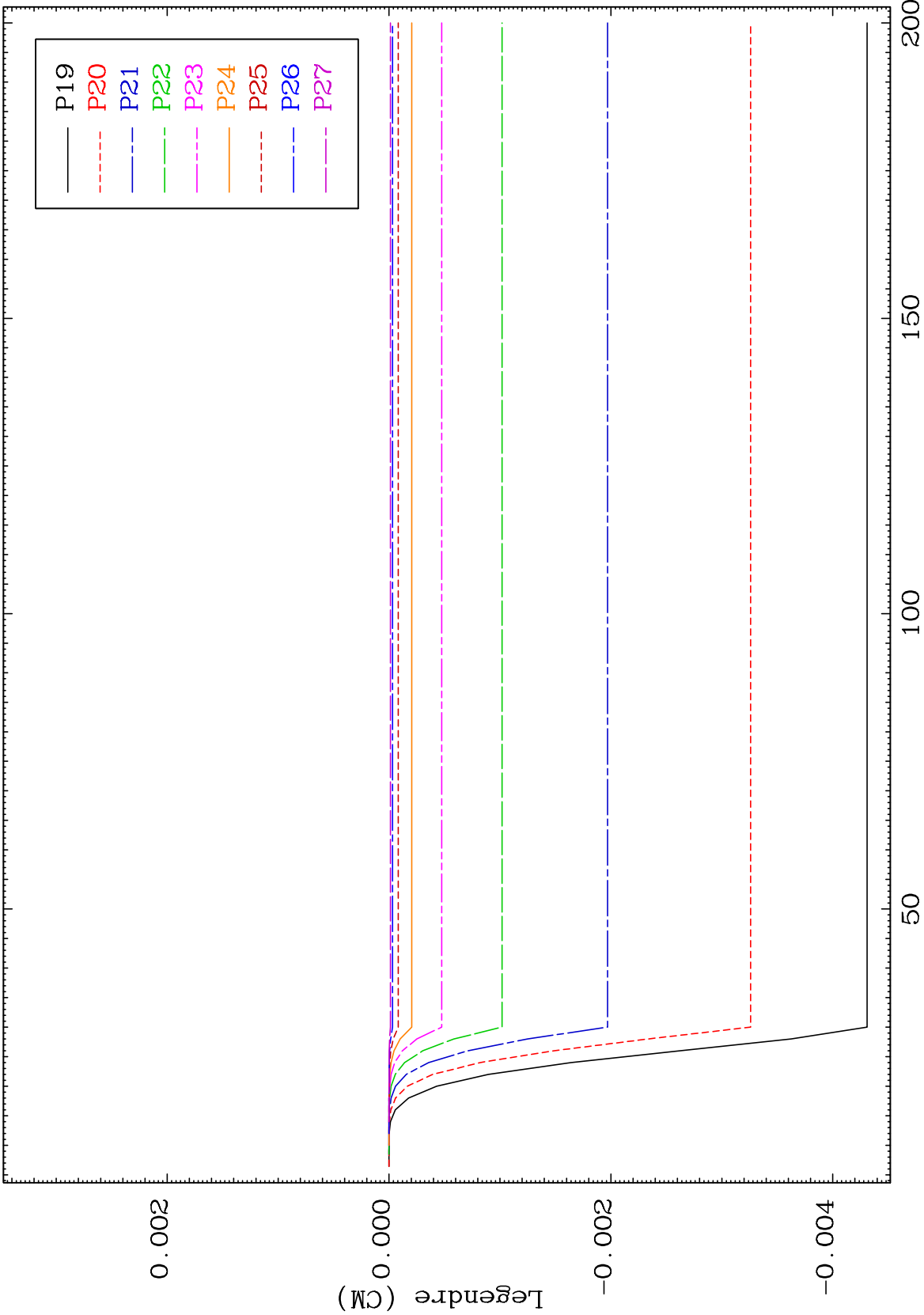
Incident Energy (MeV)

61-Pm-139

MAT 6125

MT= 77 (n,n') Level  
Legendre Coefficients

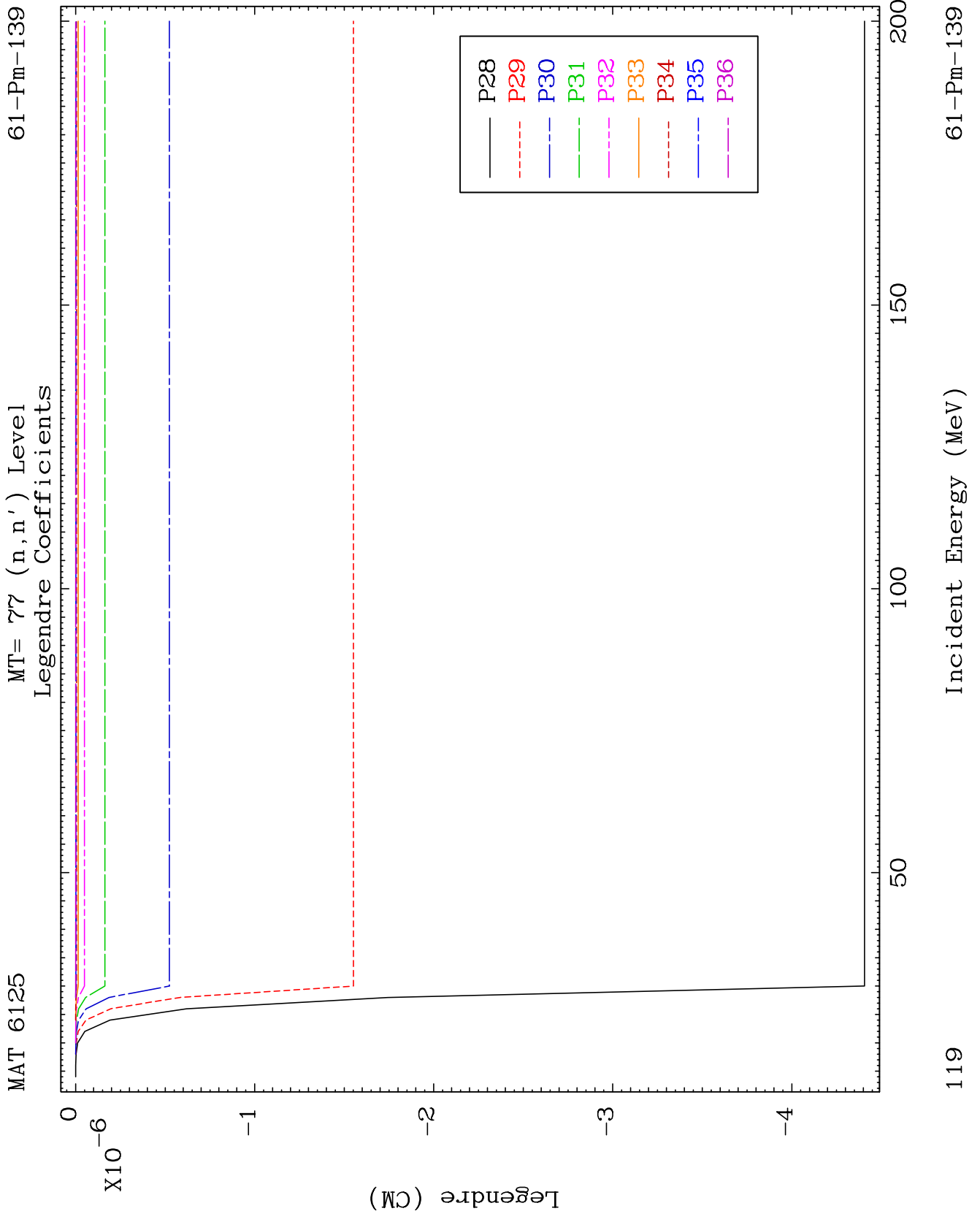
61-Pm-139

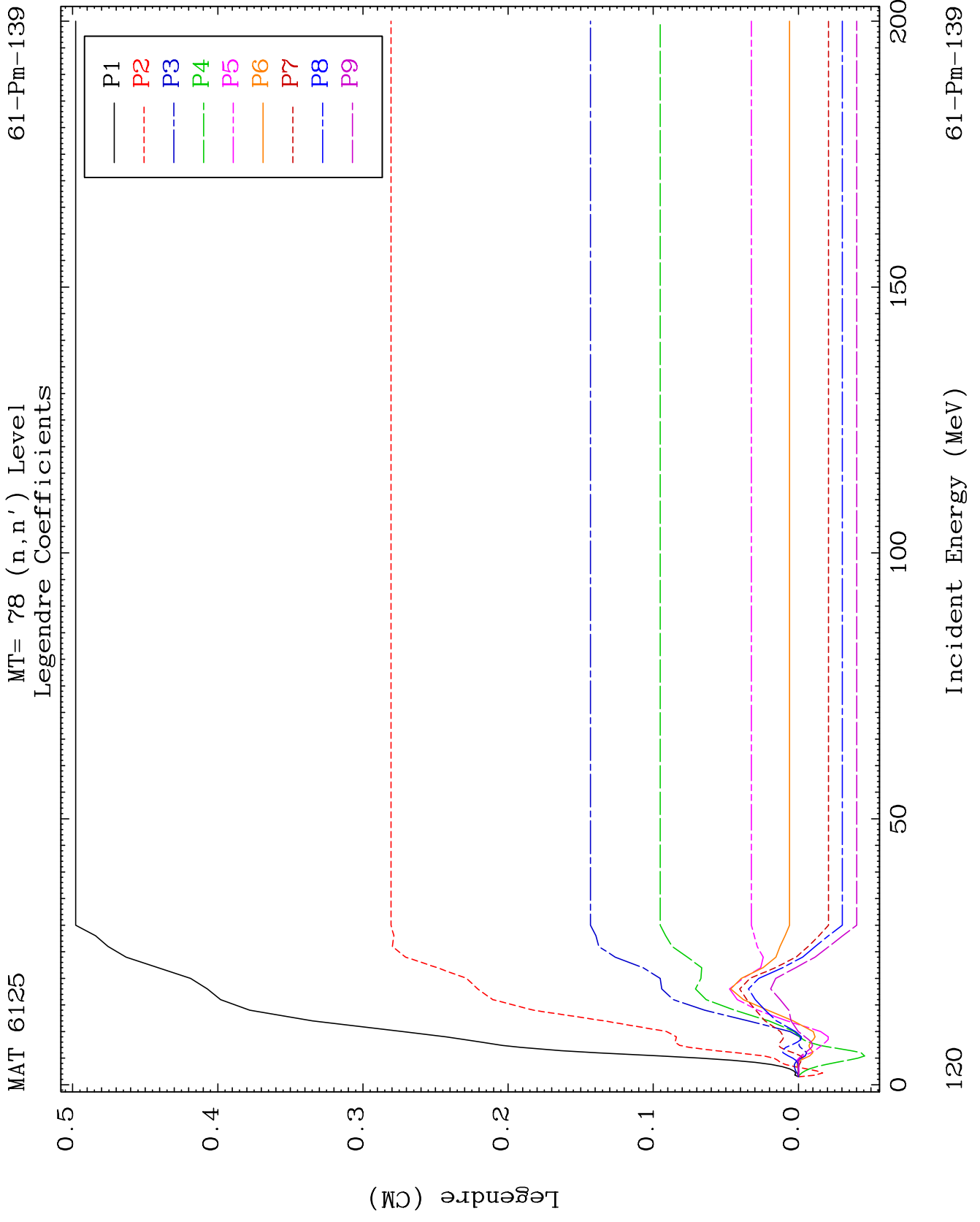


118

Incident Energy (MeV)

61-Pm-139





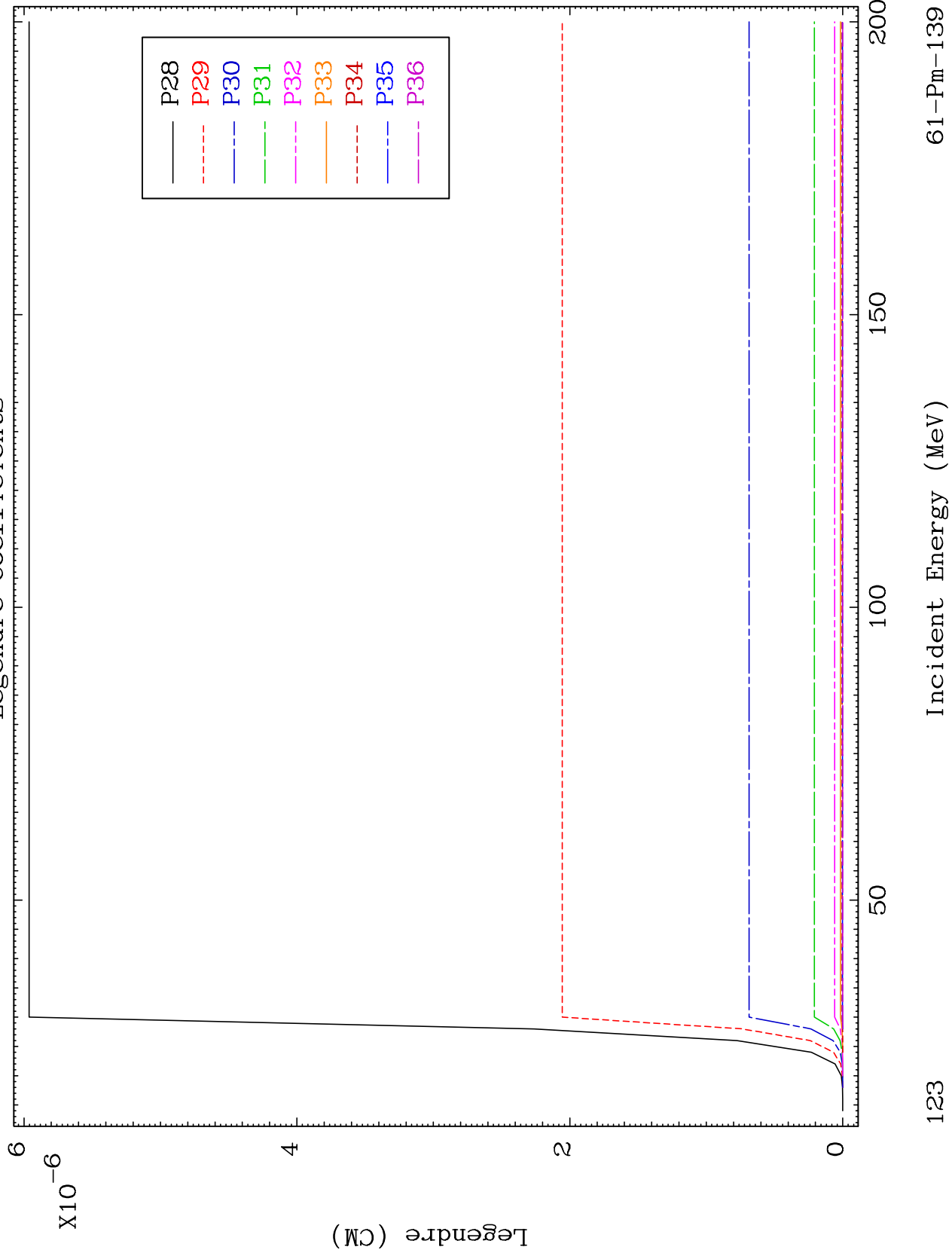




MAT 6125

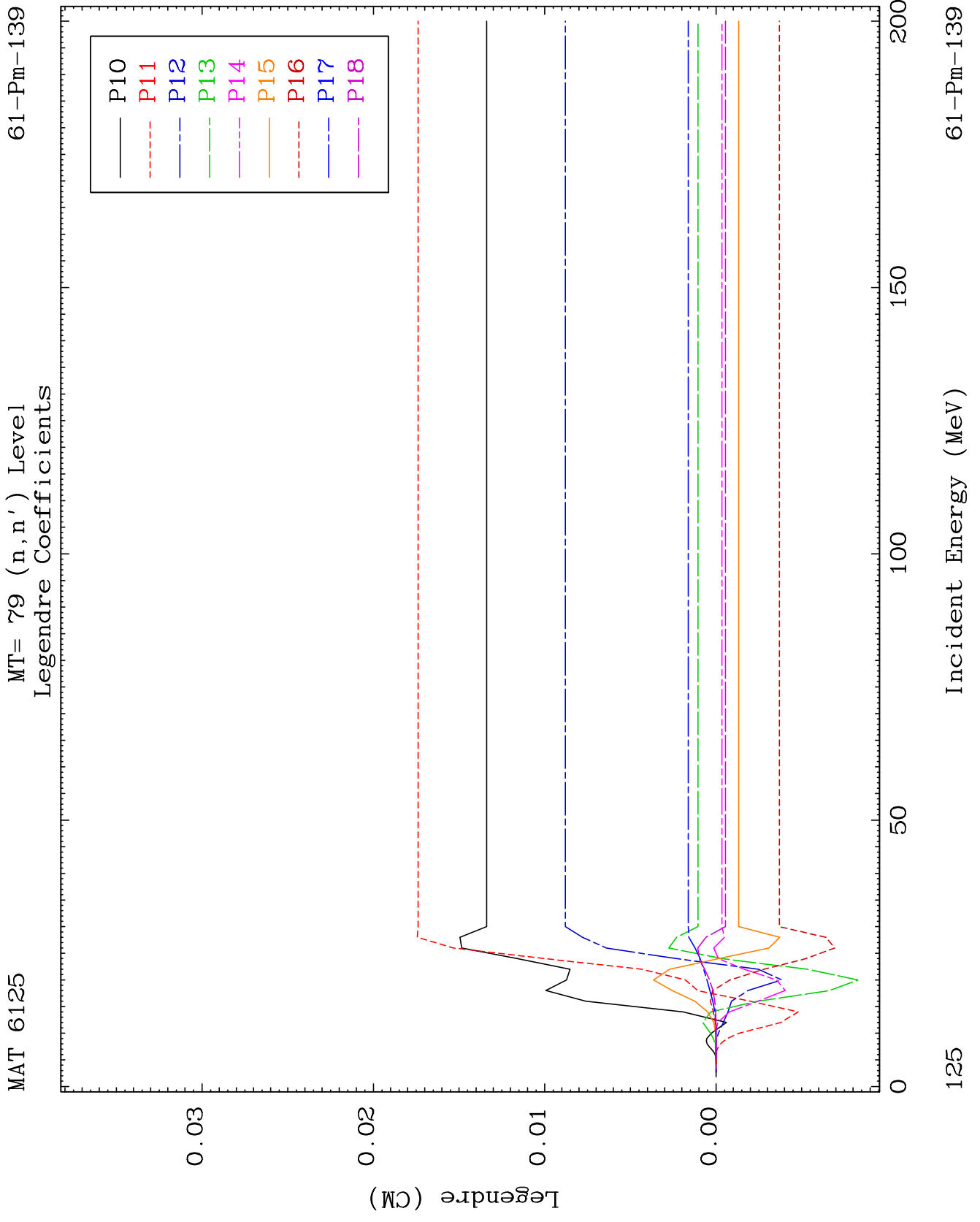
MT= 78 (n,n') Level  
Legendre Coefficients

61-Pm-139



123

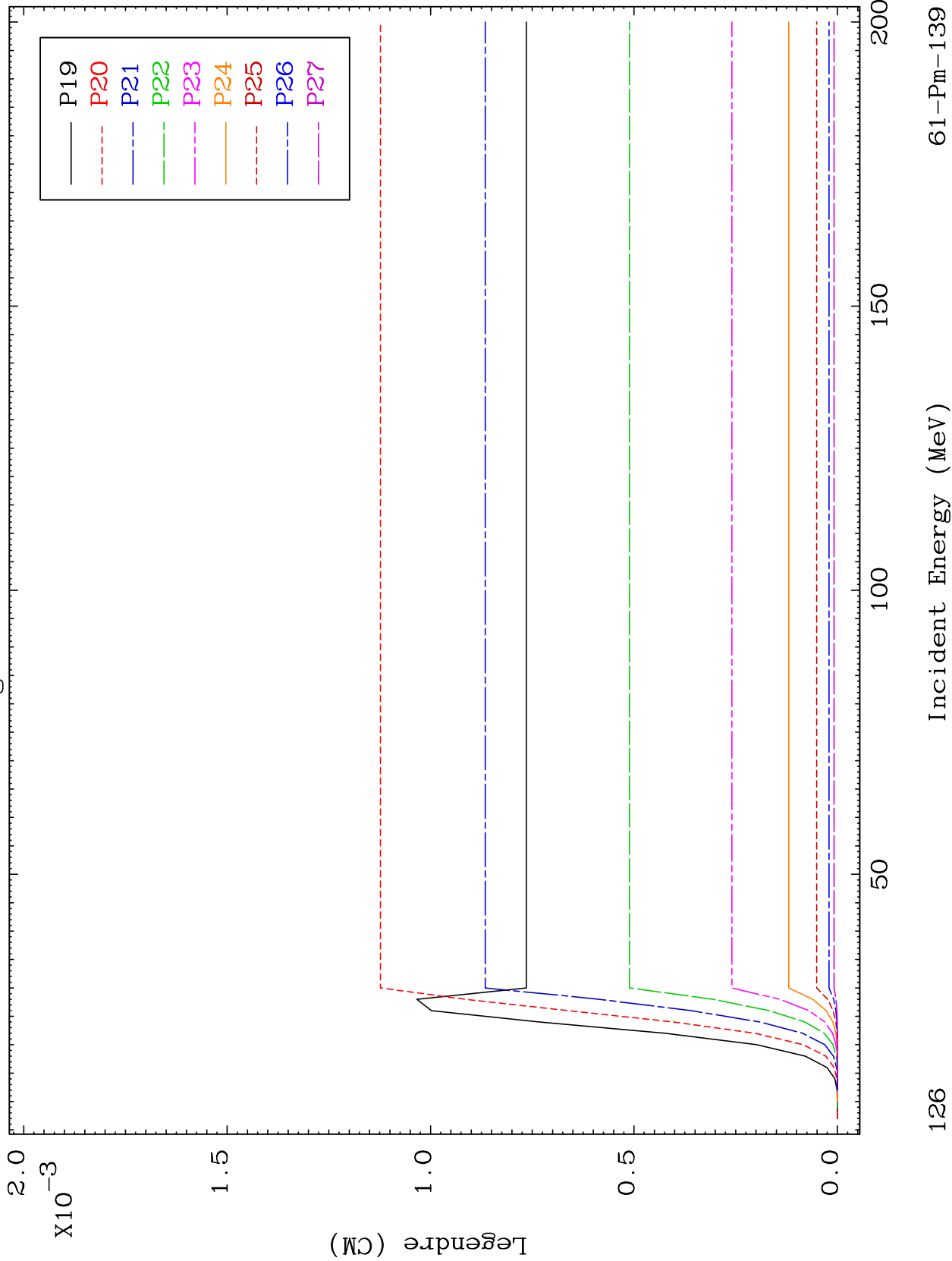




MAT 6125

MT= 79 (n,n') Level  
Legendre Coefficients

61-Pm-139



126

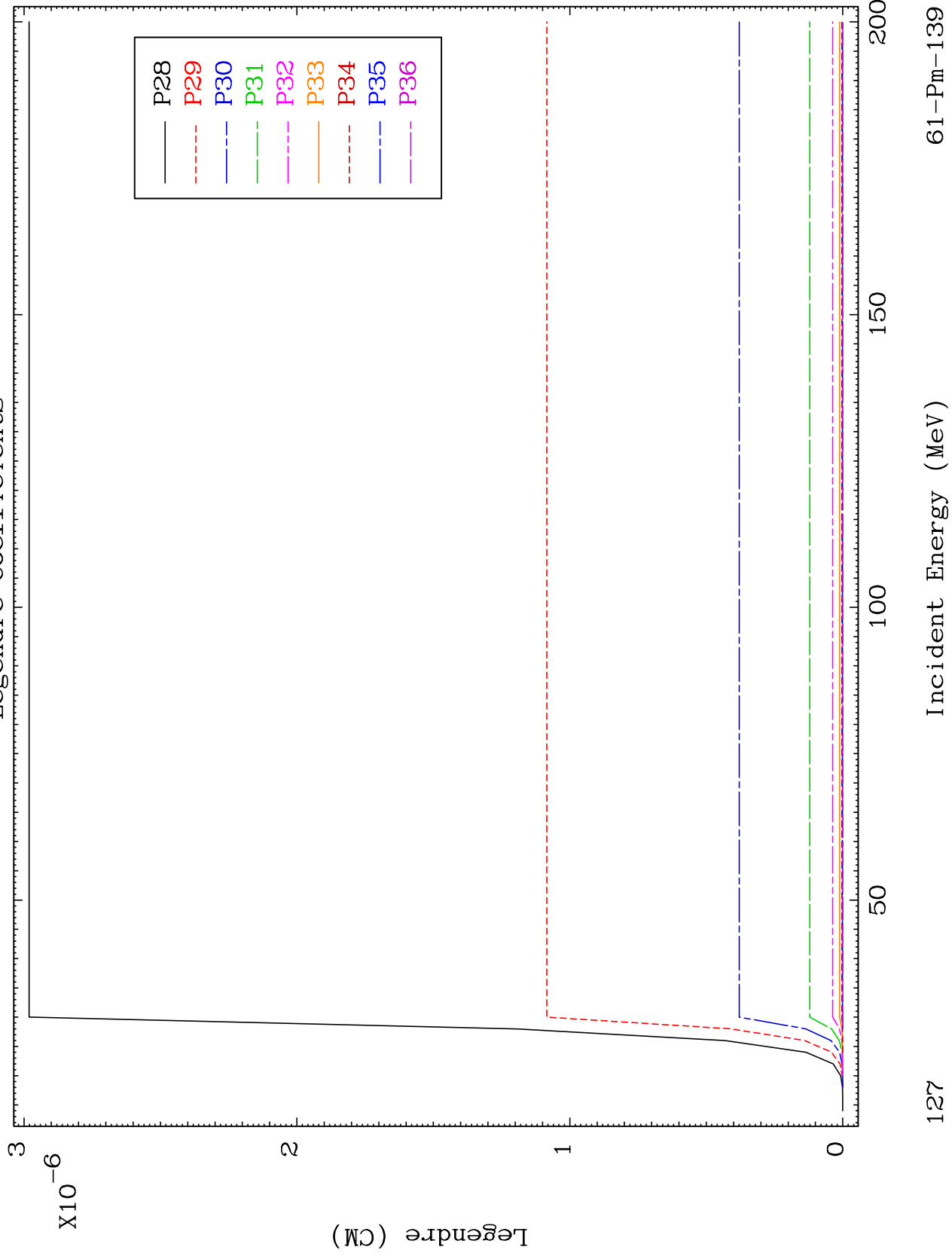
Incident Energy (MeV)

61-Pm-139

MAT 6125

MT= 79 (n,n') Level  
Legendre Coefficients

61-Pm-139

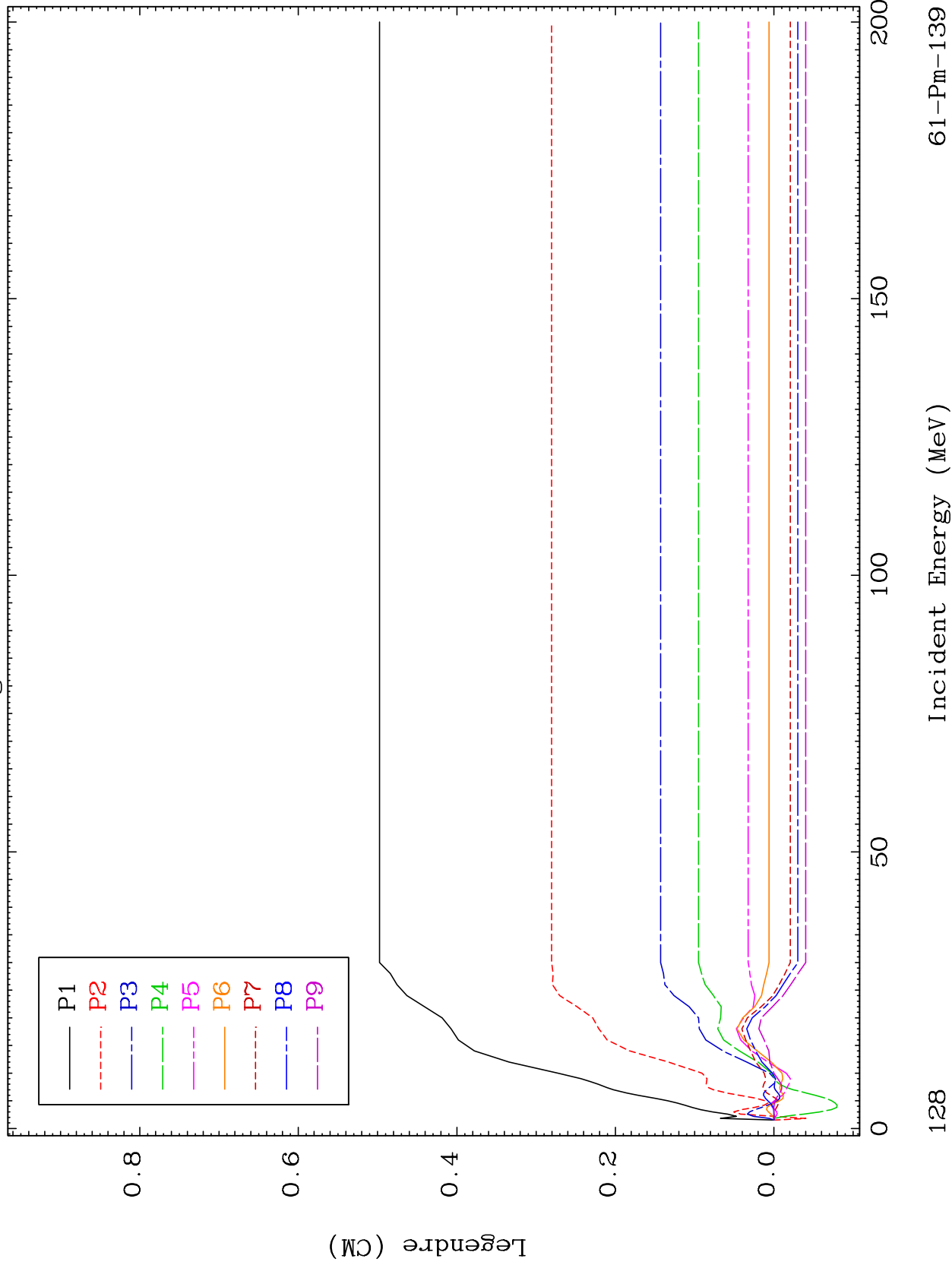


127

MAT 6125

MT= 80 (n,n') Level  
Legendre Coefficients

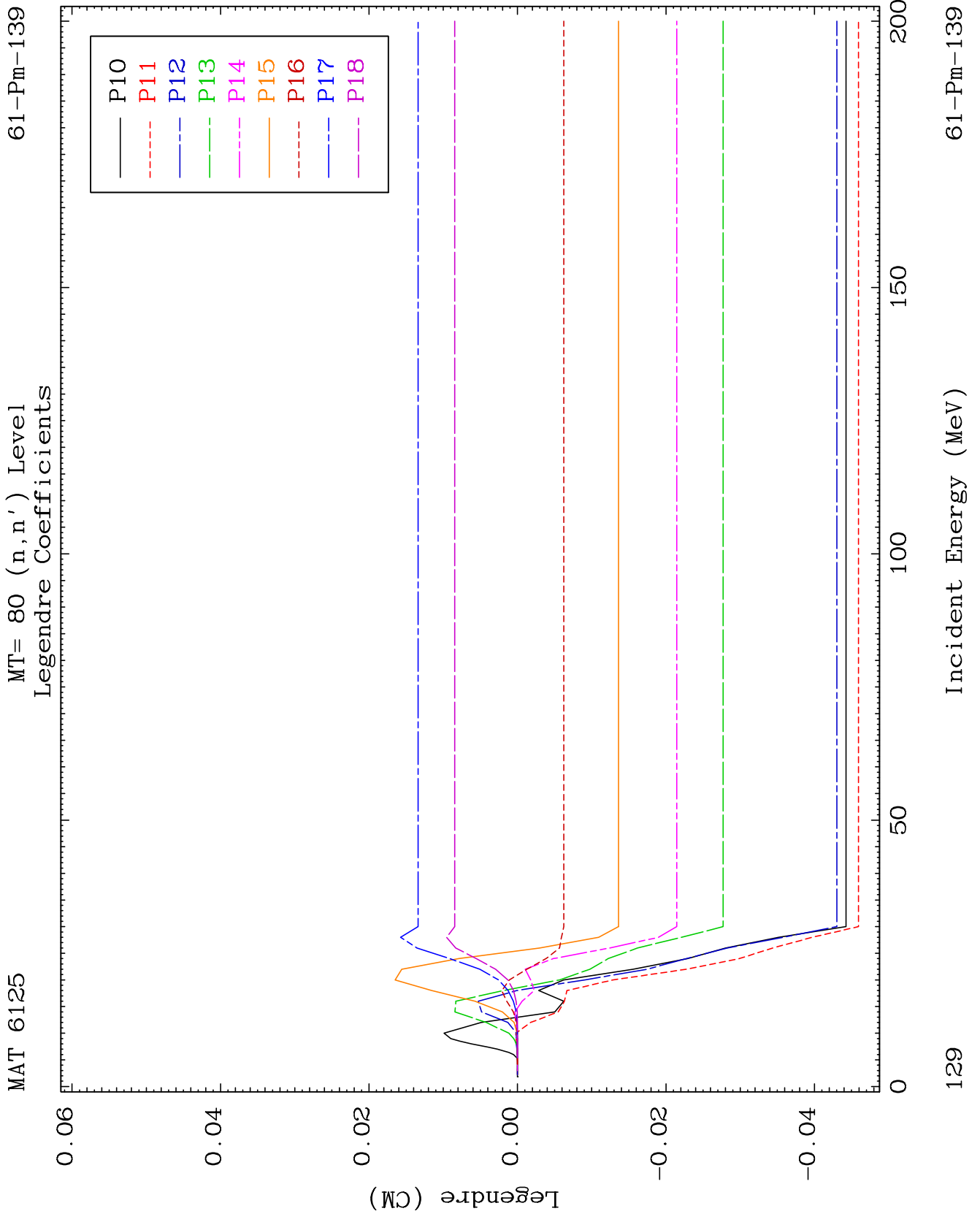
61-Pm-139

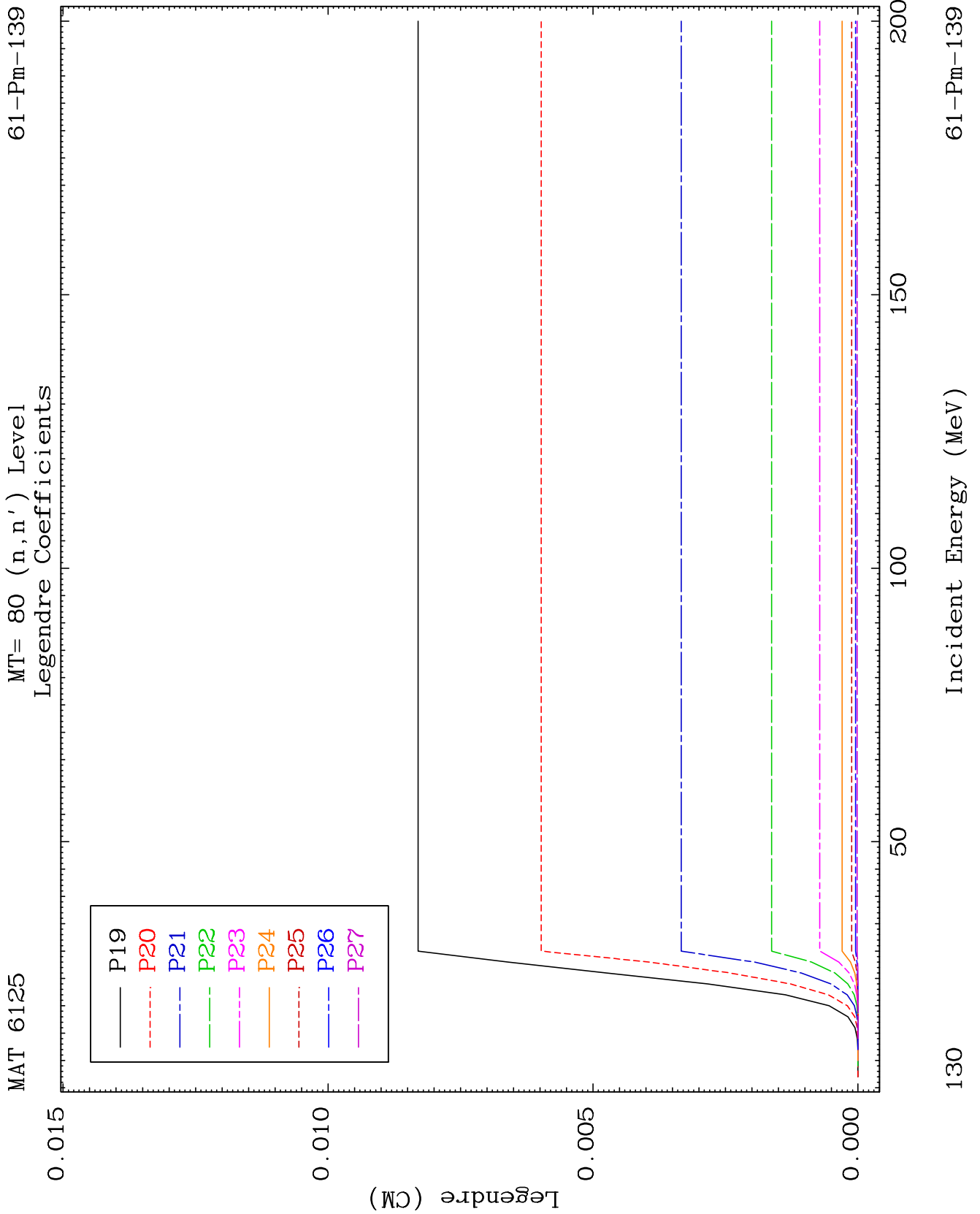


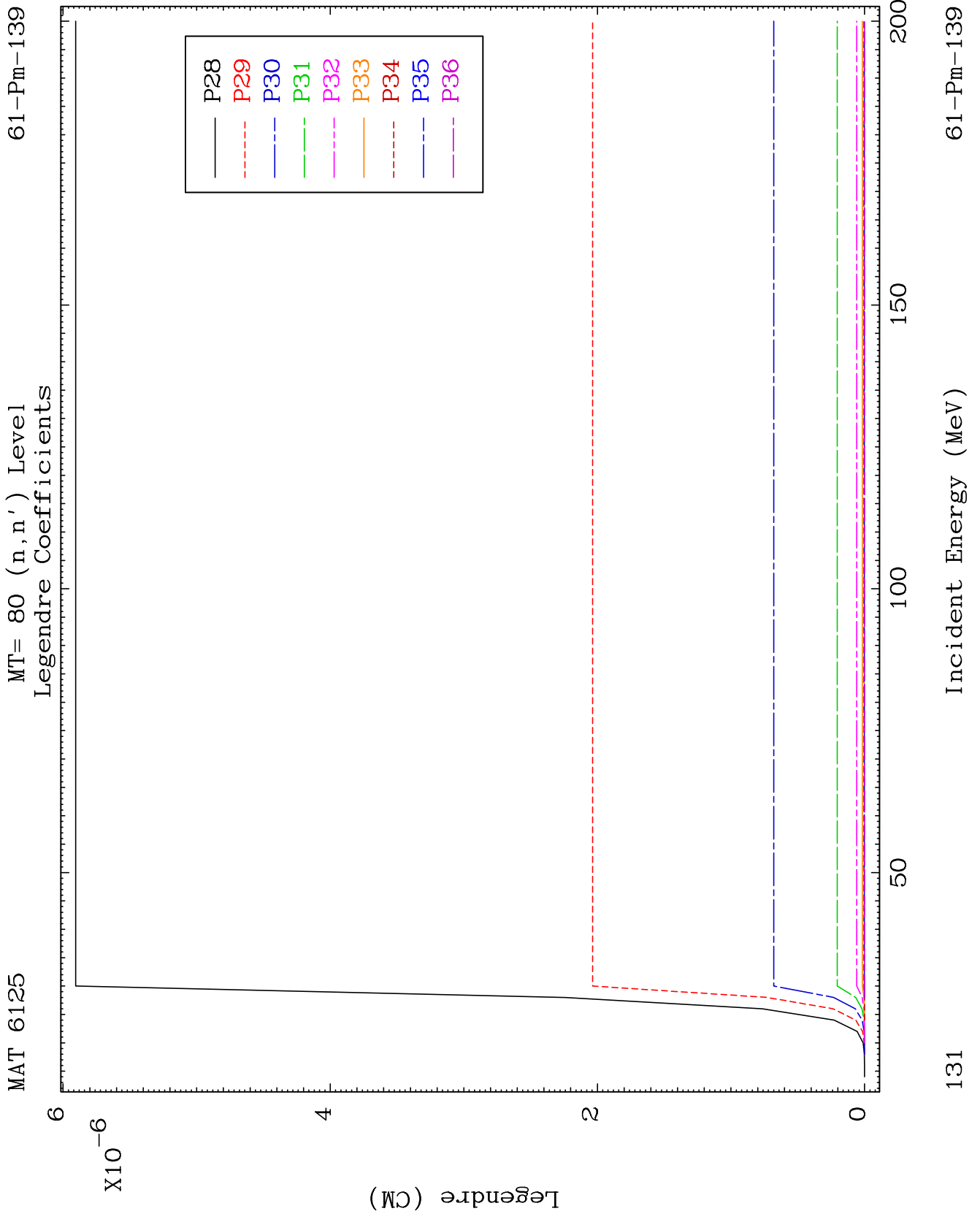
61-Pm-139

Incident Energy (MeV)

128



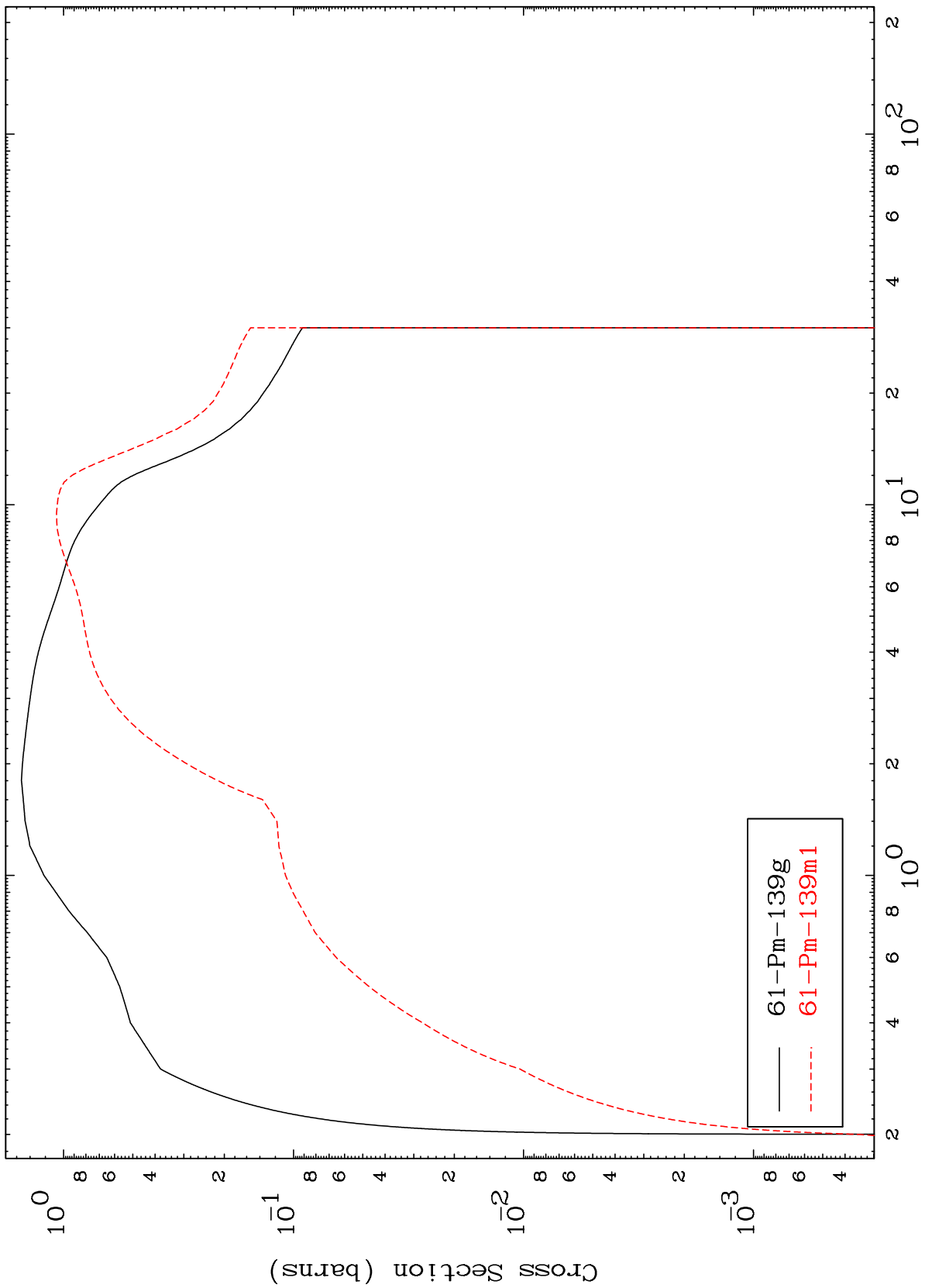




MAT 6125

61-Pm-139

Inelastic  
Radionuclide Production Cross Section



132

Incident Energy (MeV)

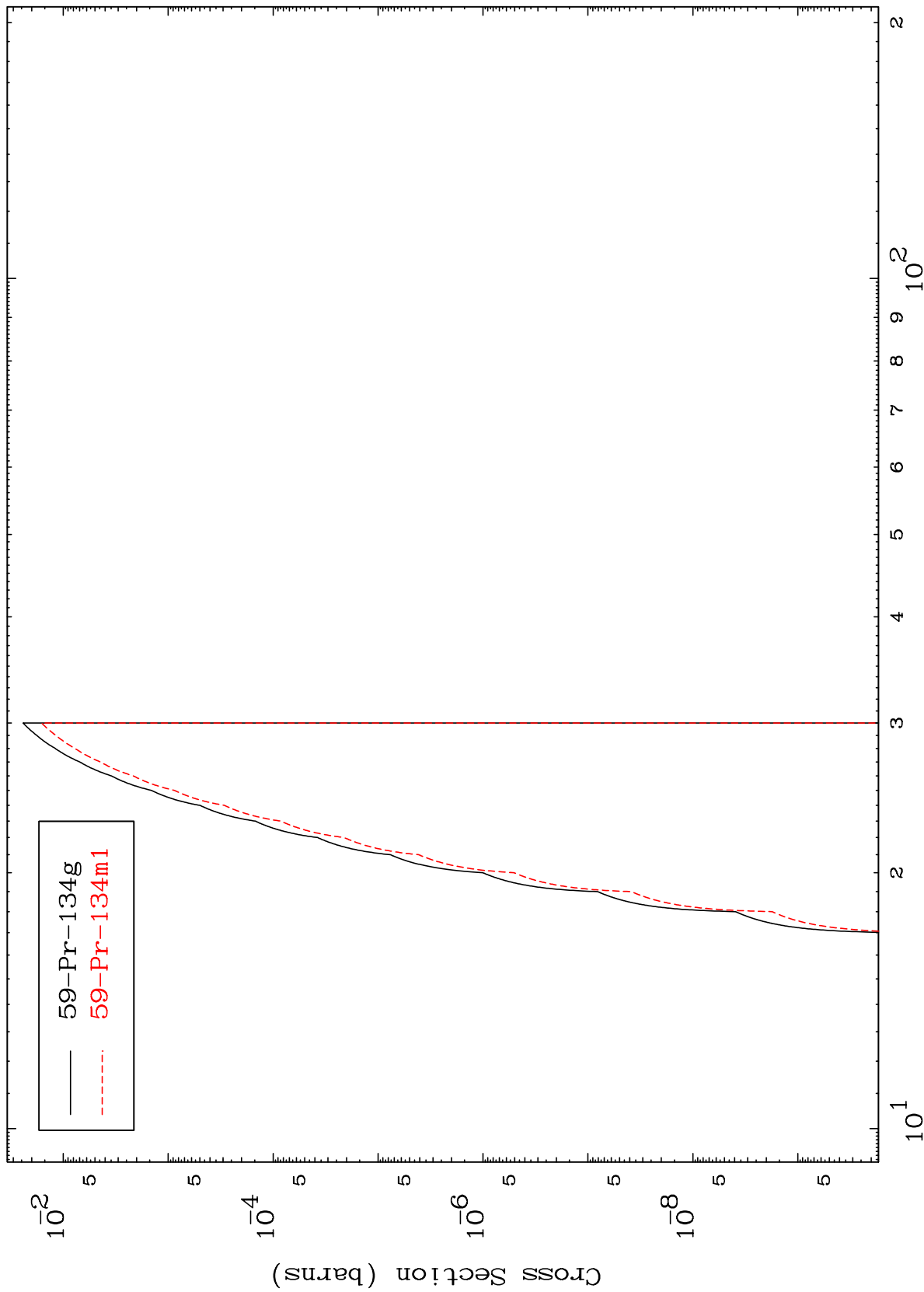
61-Pm-139

MAT 6125

(n,2n)  $\alpha$

61-Pm-139

Radionuclide Production Cross Section



Incident Energy (MeV)

61-Pm-139

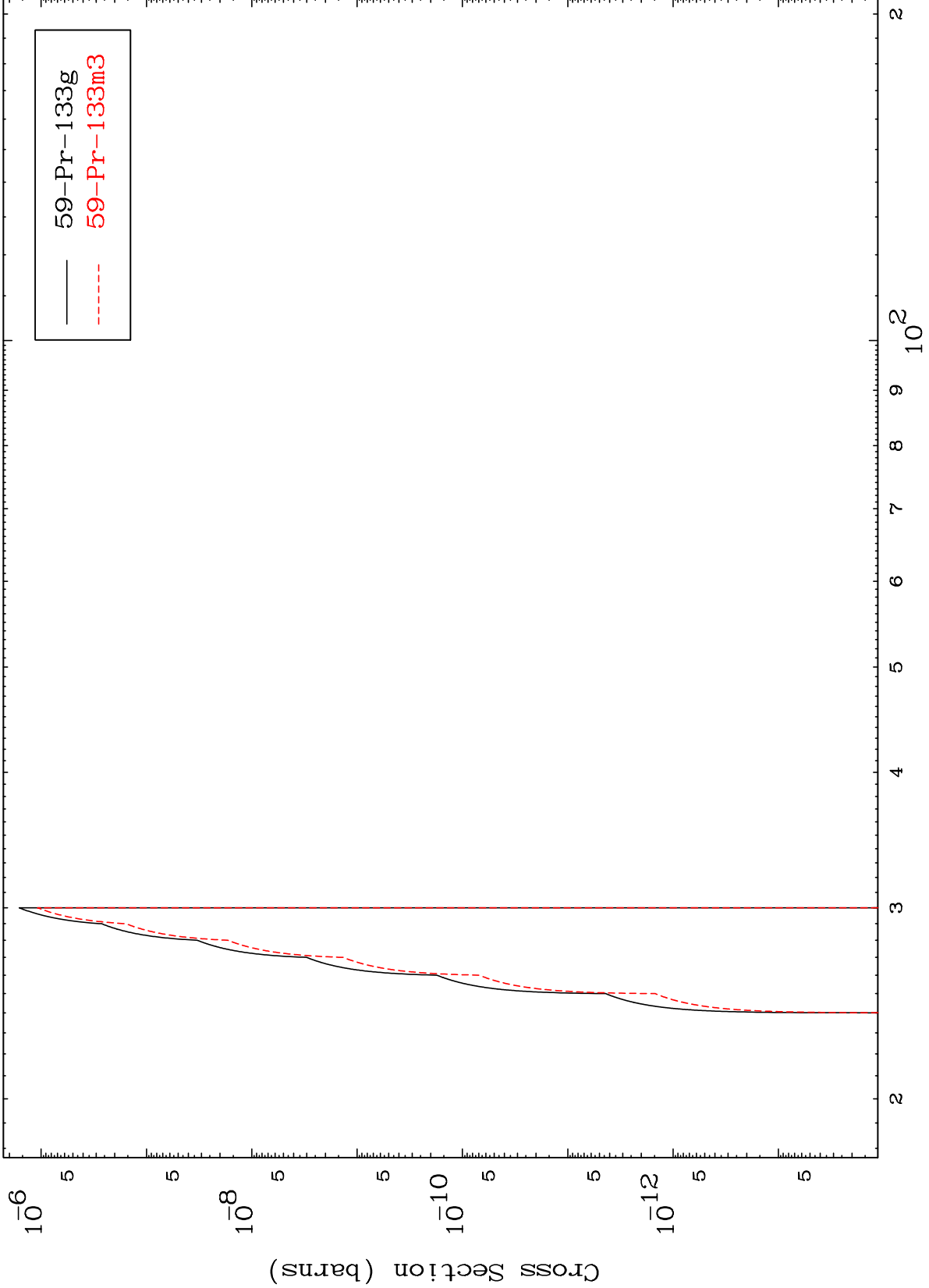
133

MAT 6125

(n,3n)  $\alpha$

61-Pm-139

Radionuclide Production Cross Section



134

Incident Energy (MeV)

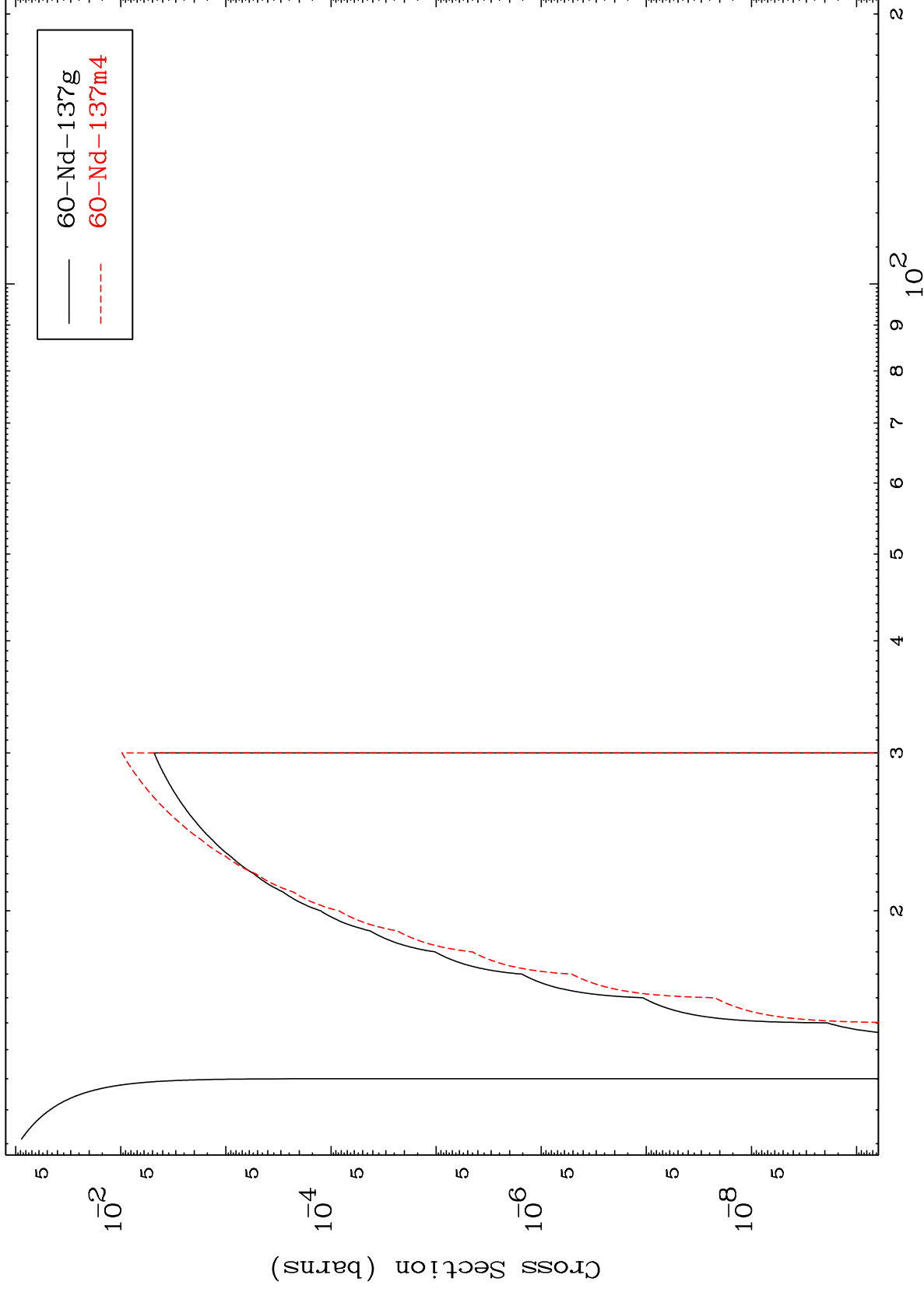
61-Pm-139

MAT 6125

(n,n') d

61-Pm-139

Radionuclide Production Cross Section



135

Incident Energy (MeV)

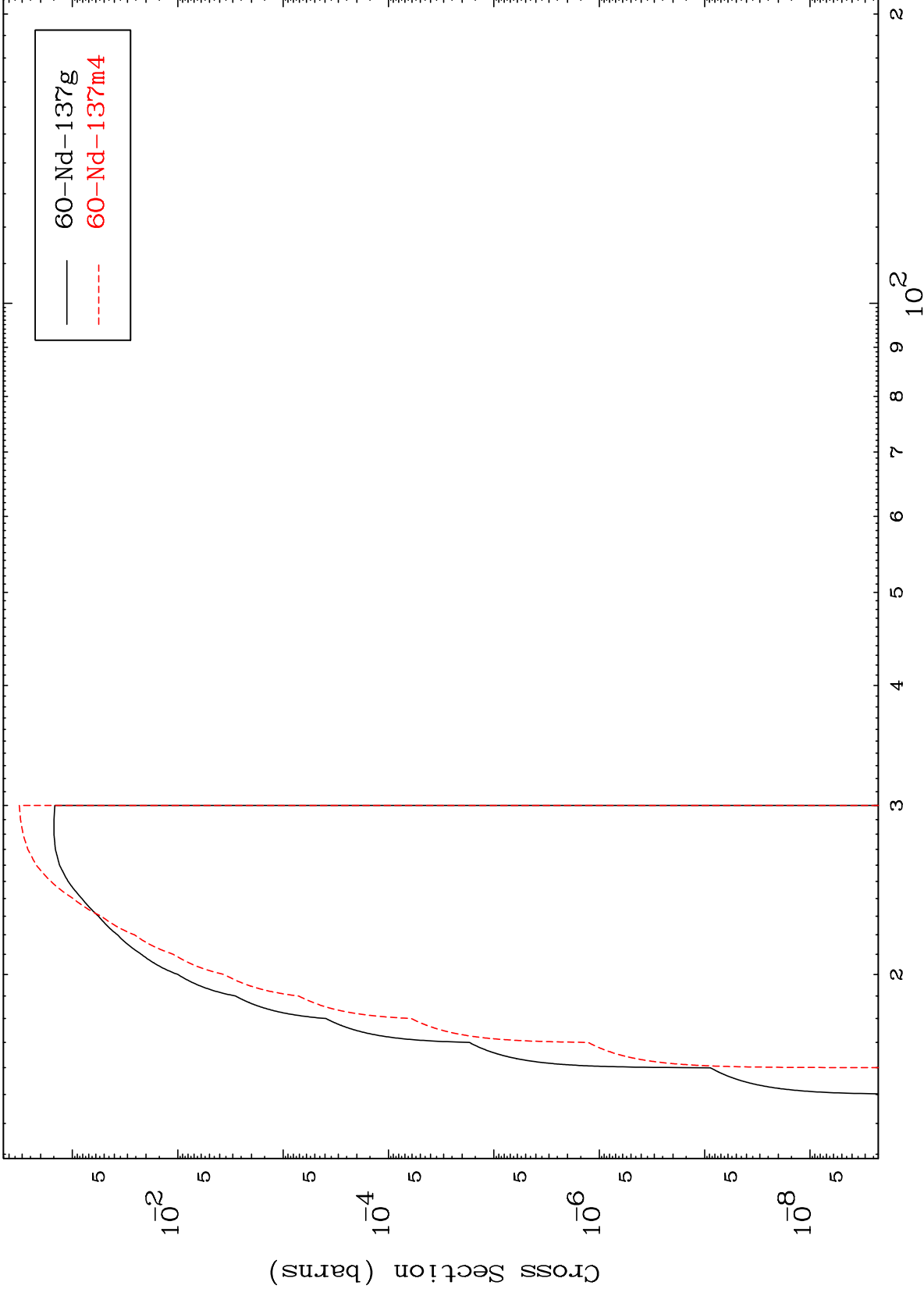
61-Pm-139

MAT 6125

(n,2n) p

61-Pm-139

Radionuclide Production Cross Section



136

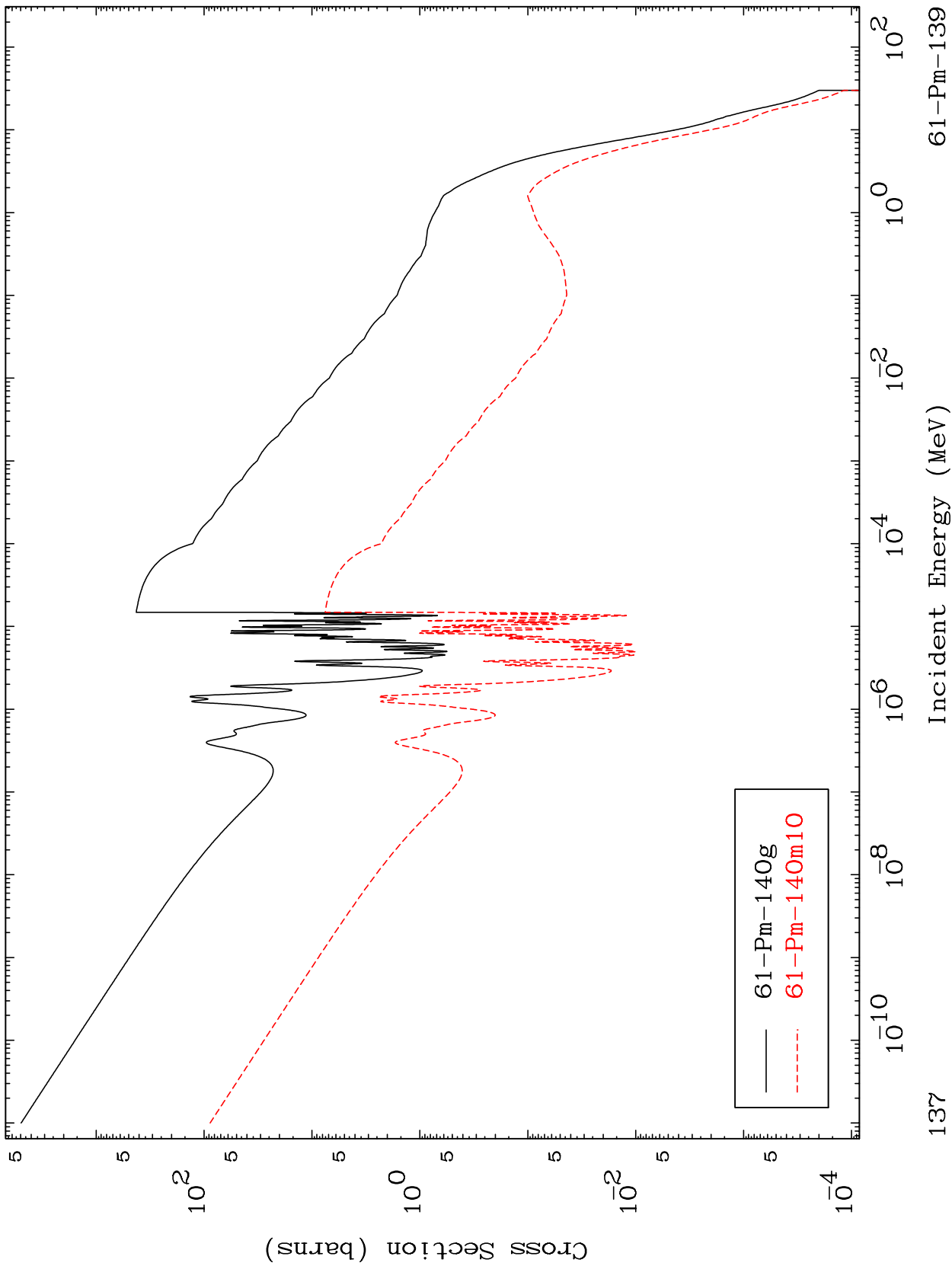
Incident Energy (MeV)

61-Pm-139

MAT 6125

61-Pm-139

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

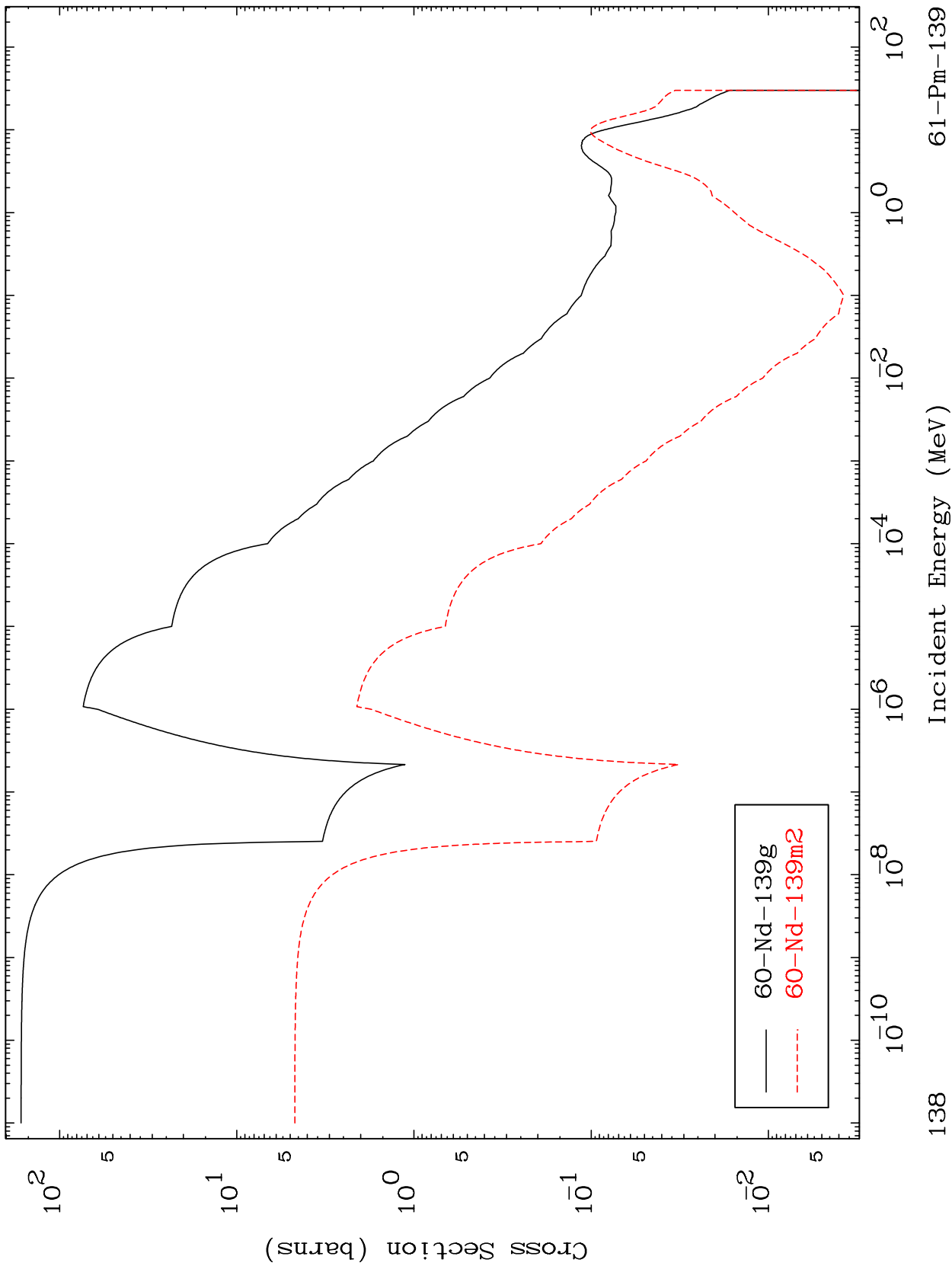


137

MAT 6125

61-Pm-139

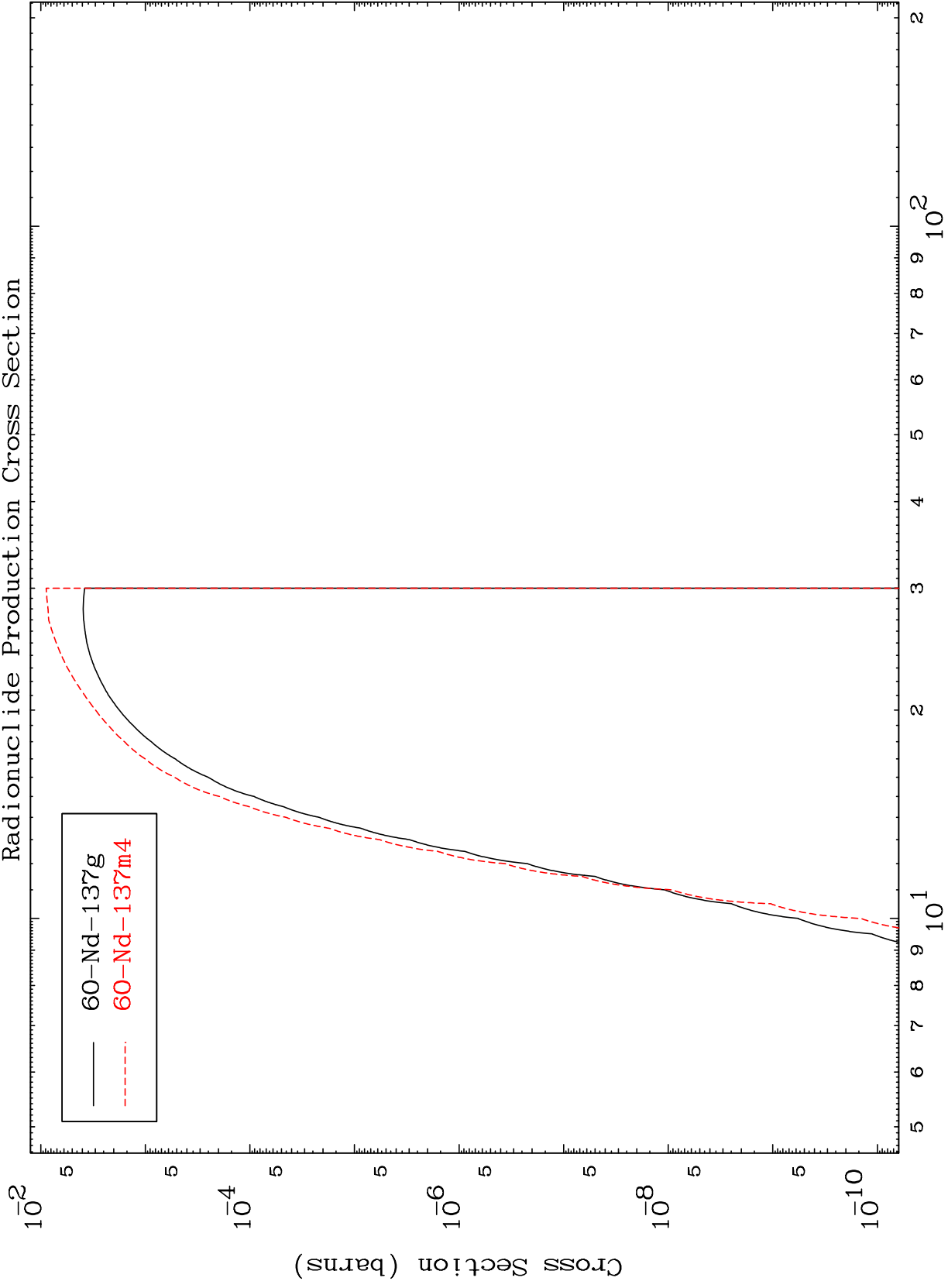
(n,p)  
Radionuclide Production Cross Section



MAT 6125

61-Pm-139

(n,t)  
Radionuclide Production Cross Section



139

Incident Energy (MeV)

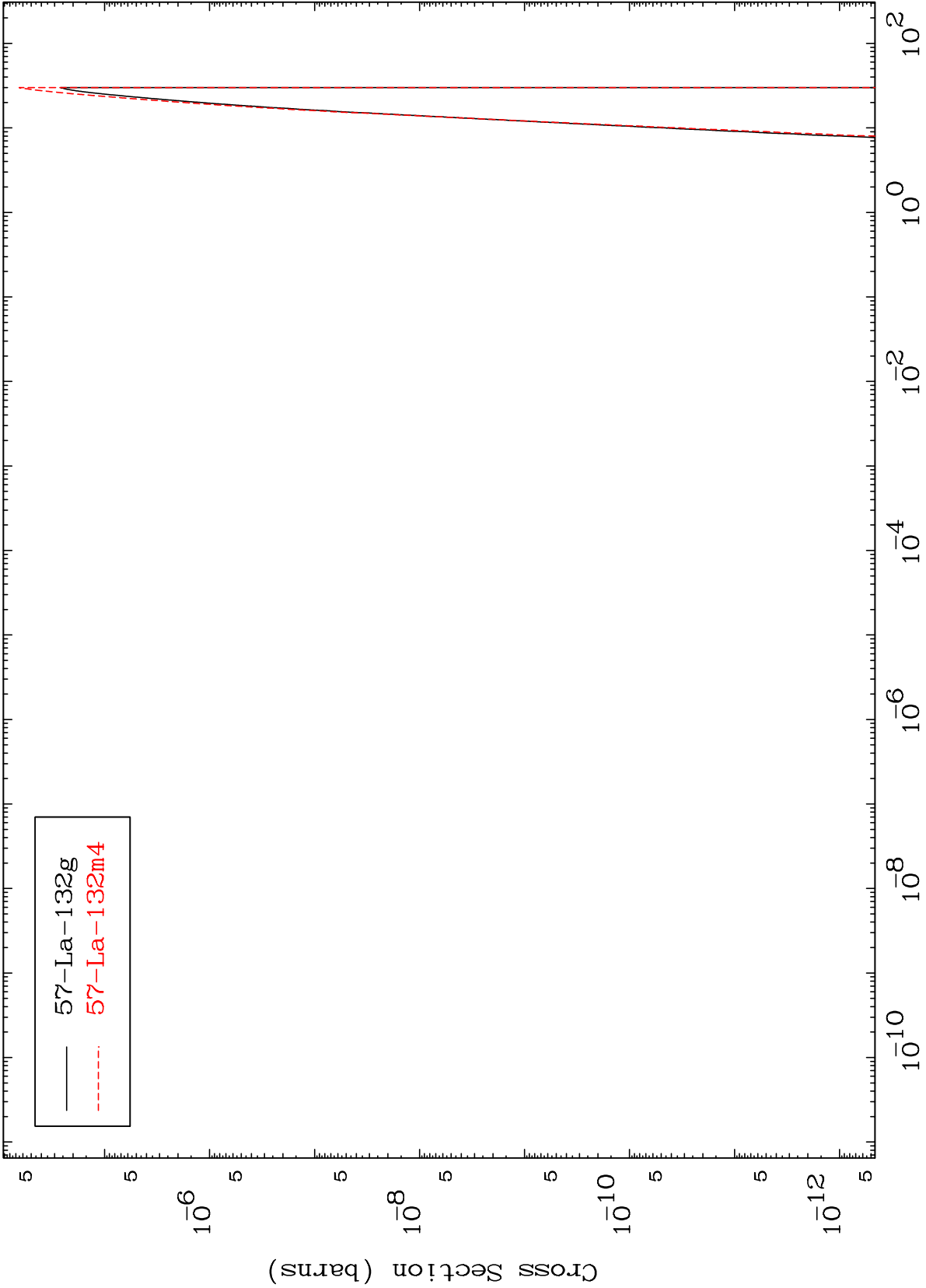
61-Pm-139

MAT 6125

(n,2α)

61-Pm-139

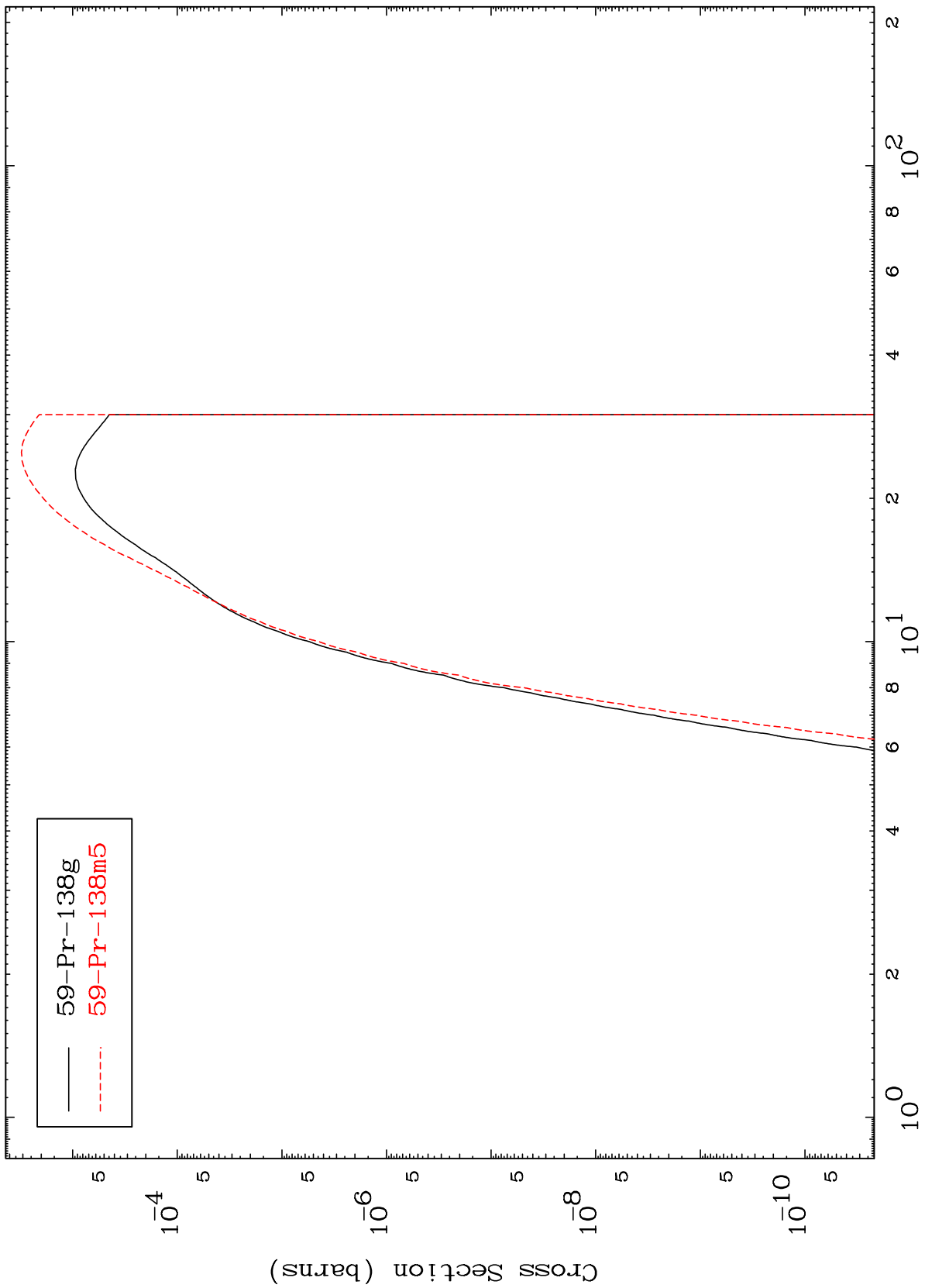
Radionuclide Production Cross Section



MAT 6125

61-Pm-139

(n,2p)  
Radionuclide Production Cross Section



— 59-Pr-138g  
- - - 59-Pr-138m5

141

Incident Energy (MeV)

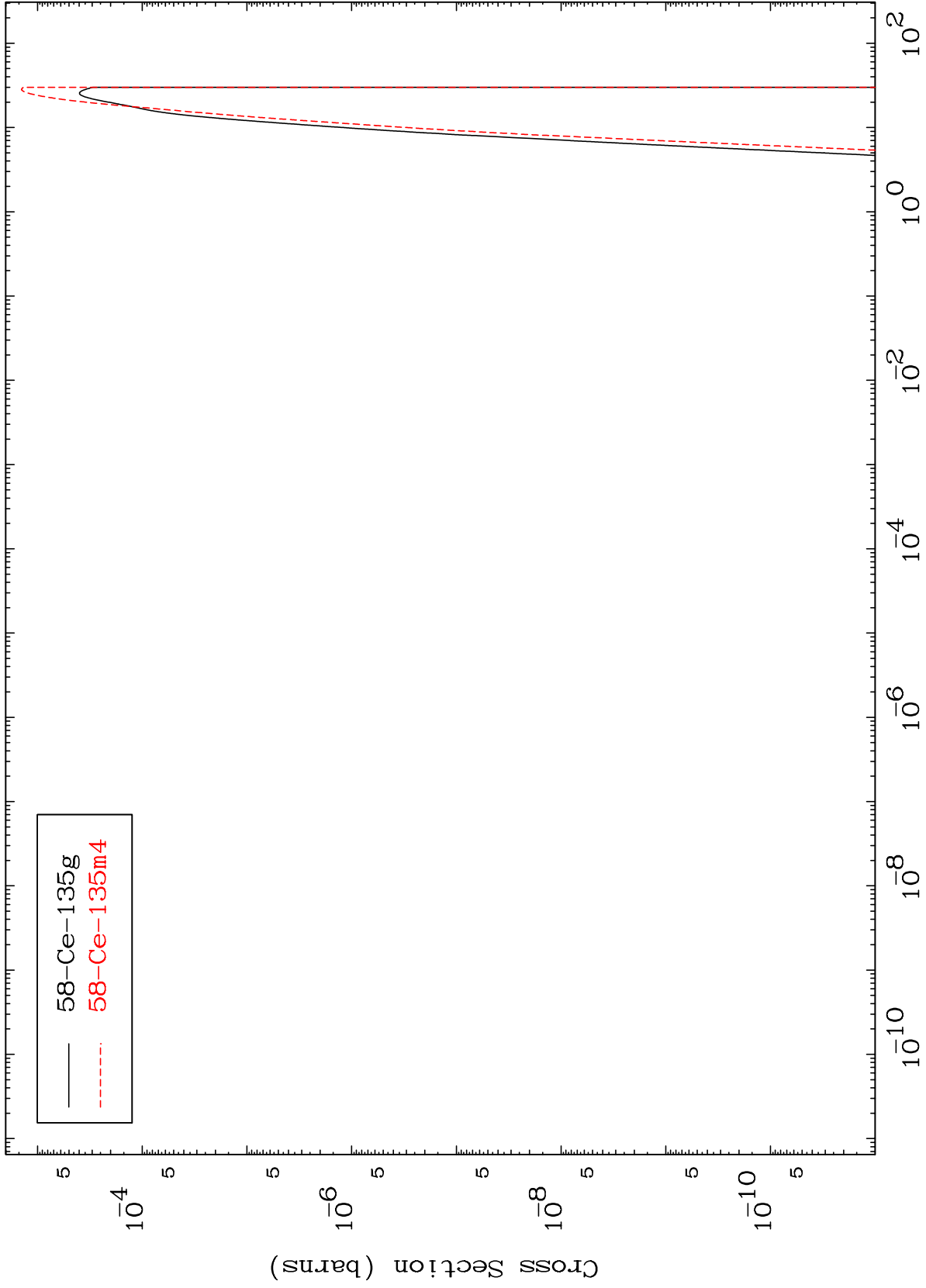
61-Pm-139

MAT 6125

(n,p)  $\alpha$

61-Pm-139

Radionuclide Production Cross Section



142

Incident Energy (MeV)

61-Pm-139