

Program EVALPLOT  
(Version 2018-1)

by

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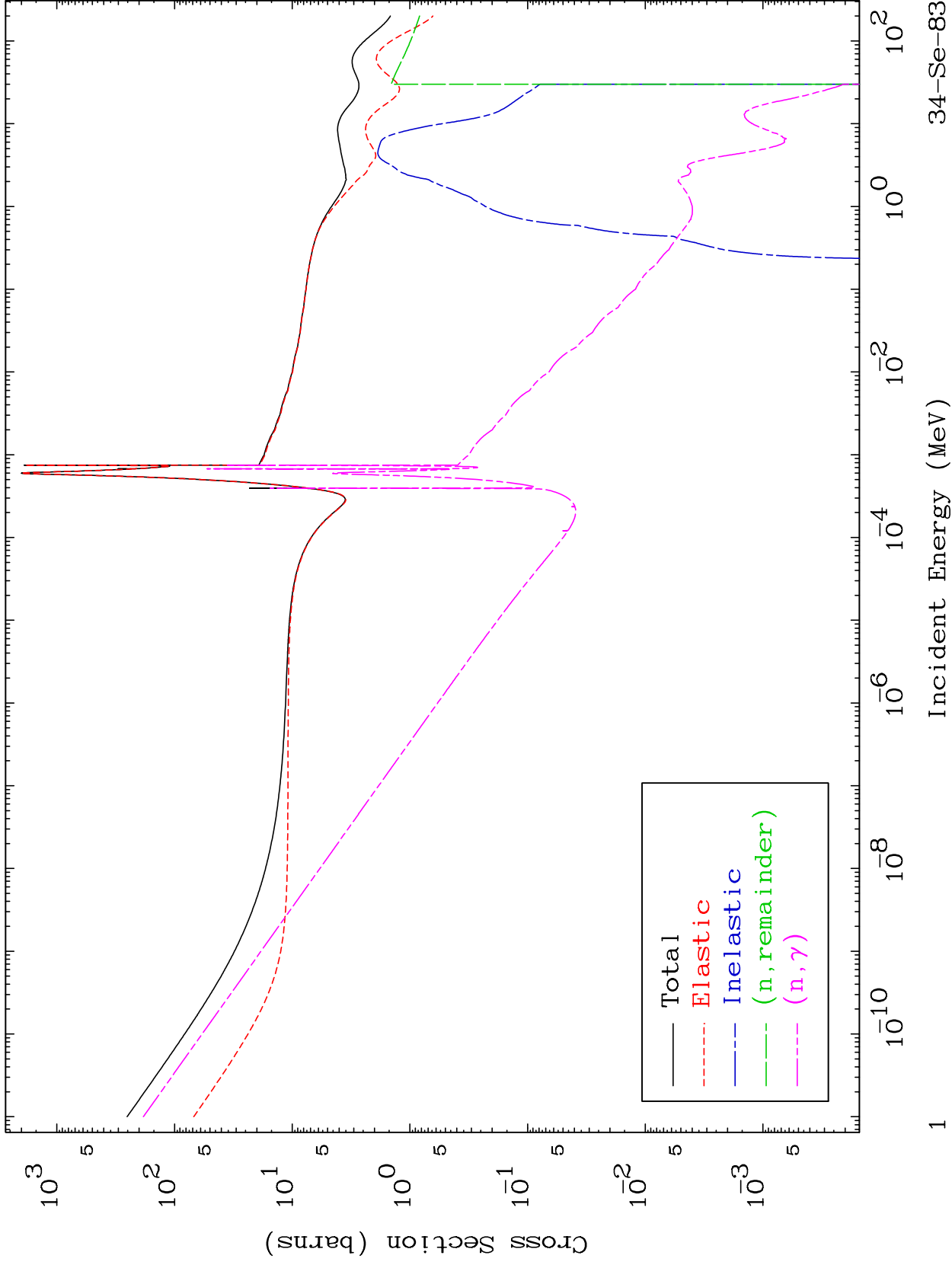
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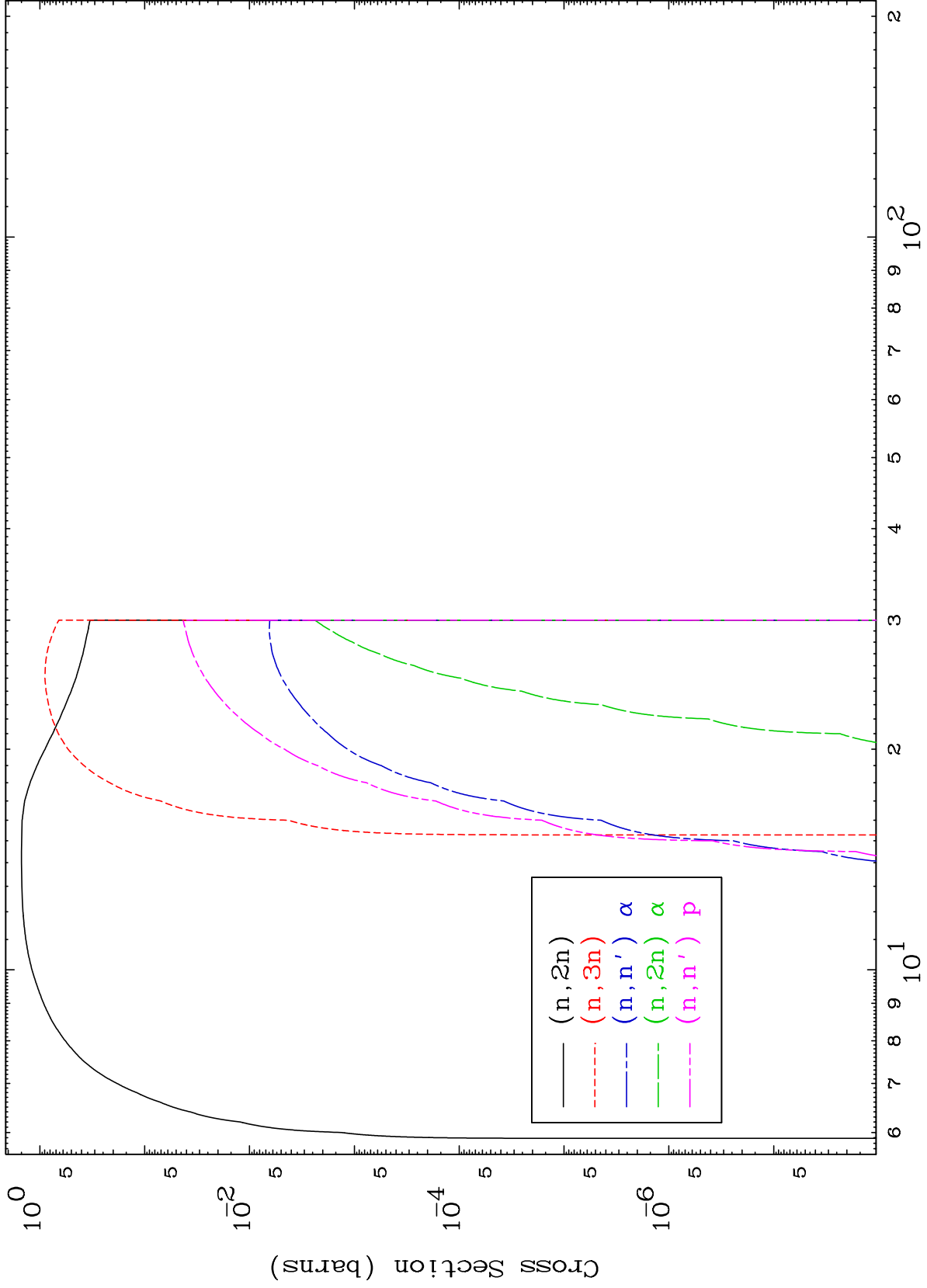
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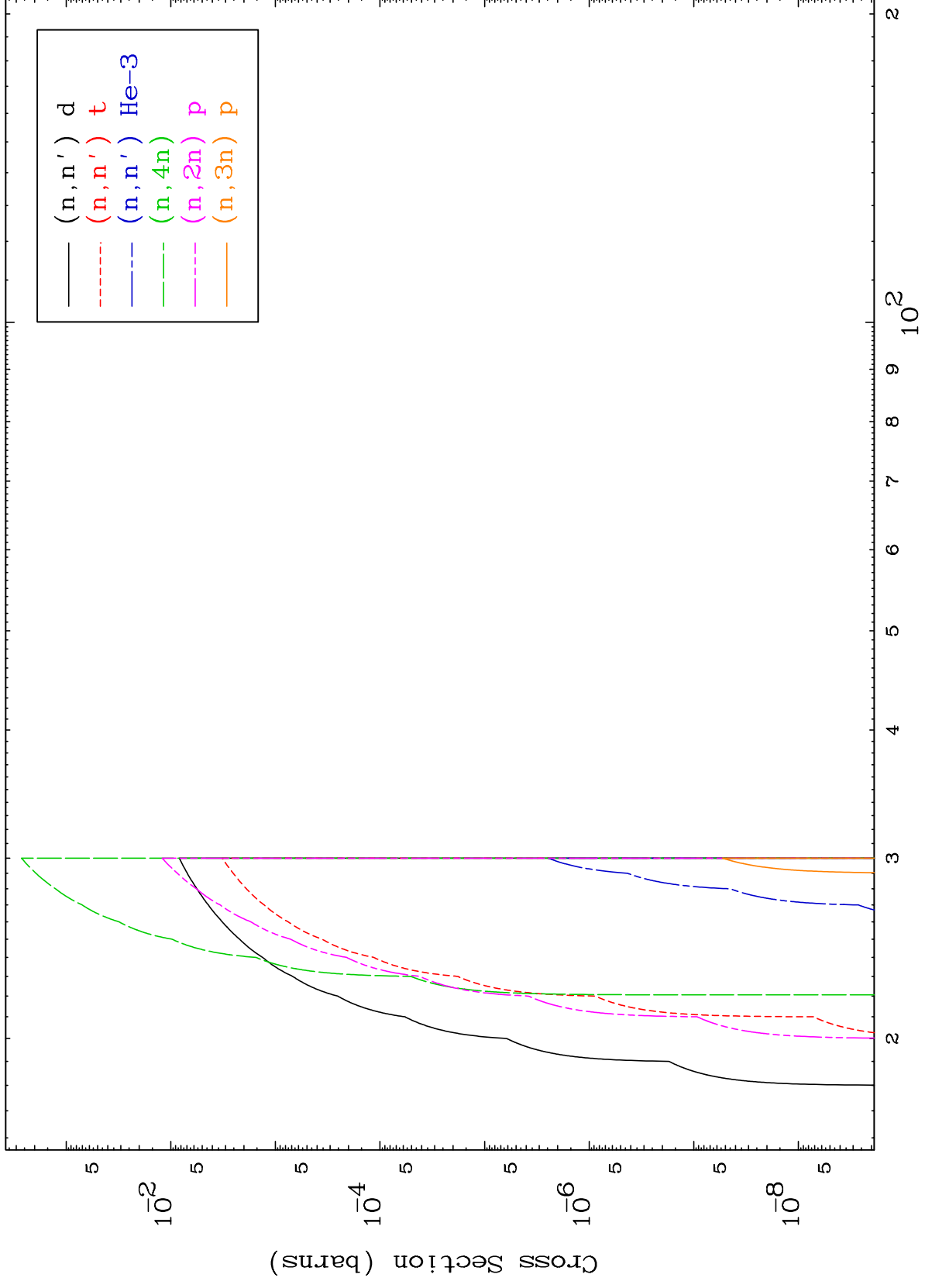
MAT 3452

Major  
293 Kelvin Cross Sections

34-Se-83



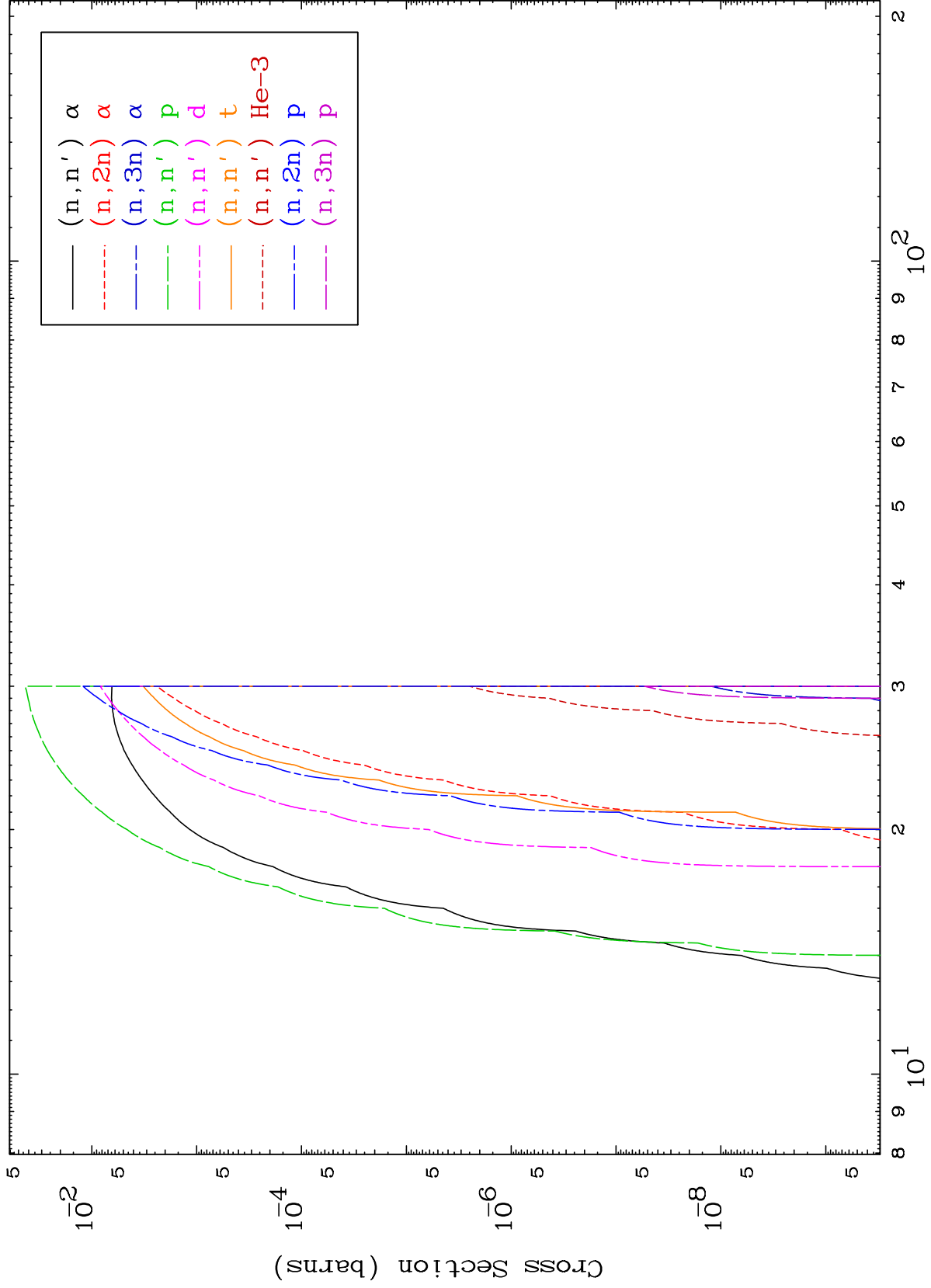




MAT 3452

Charged Particle  
293 Kelvin Cross Sections

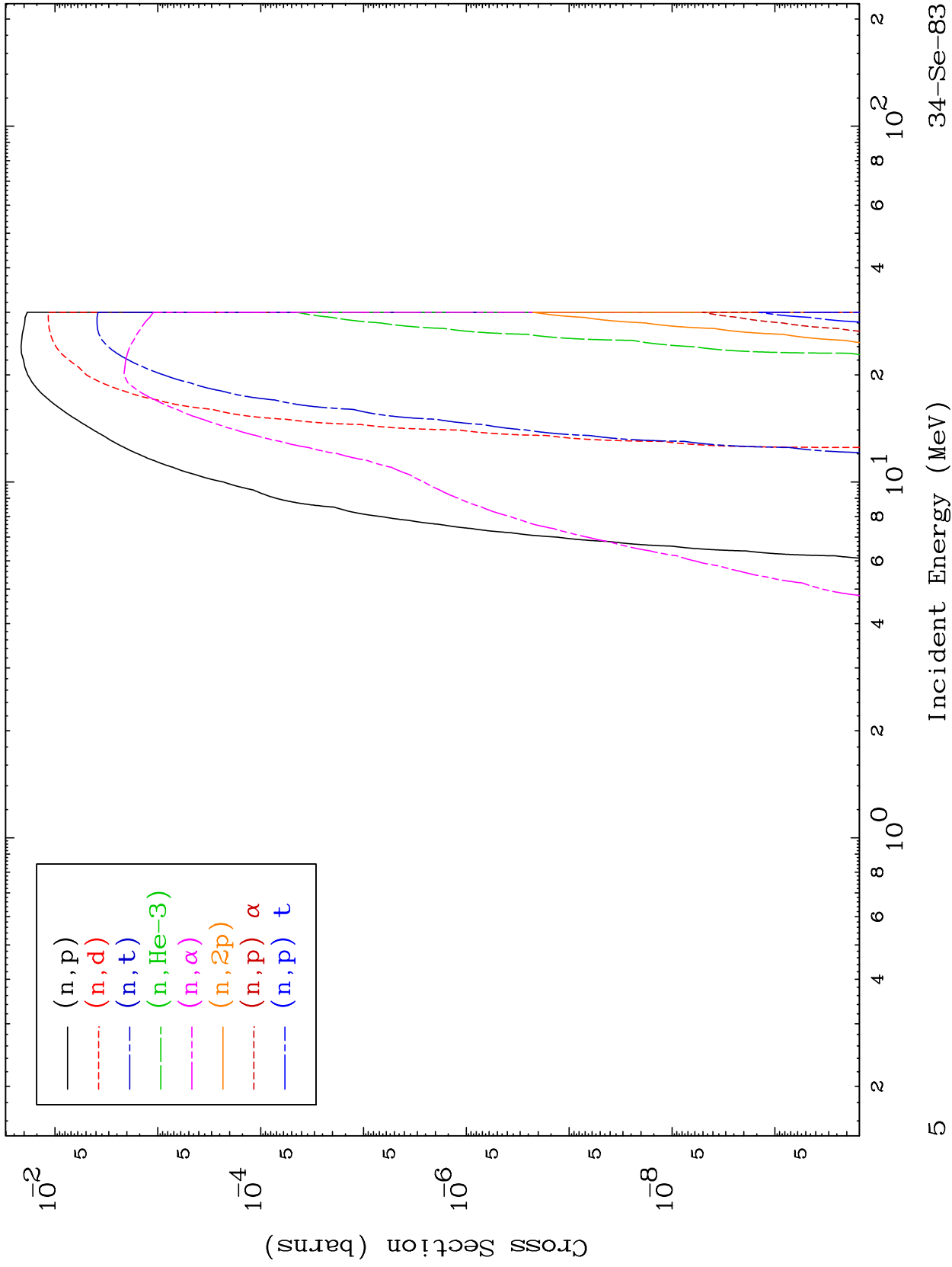
34-Se-83



4

Incident Energy (MeV)

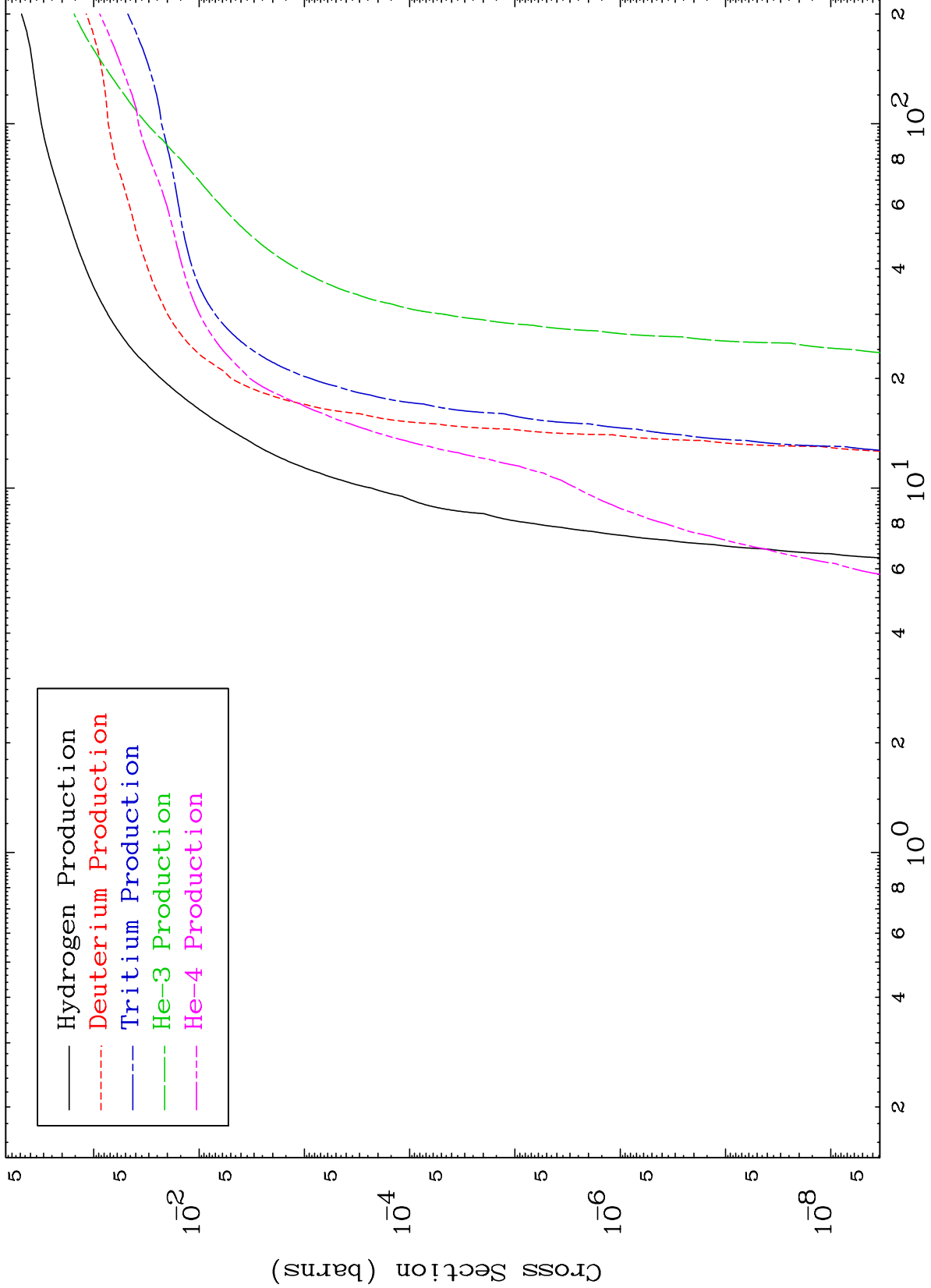
34-Se-83



MAT 3452

Particle Production  
293 Kelvin Cross Sections

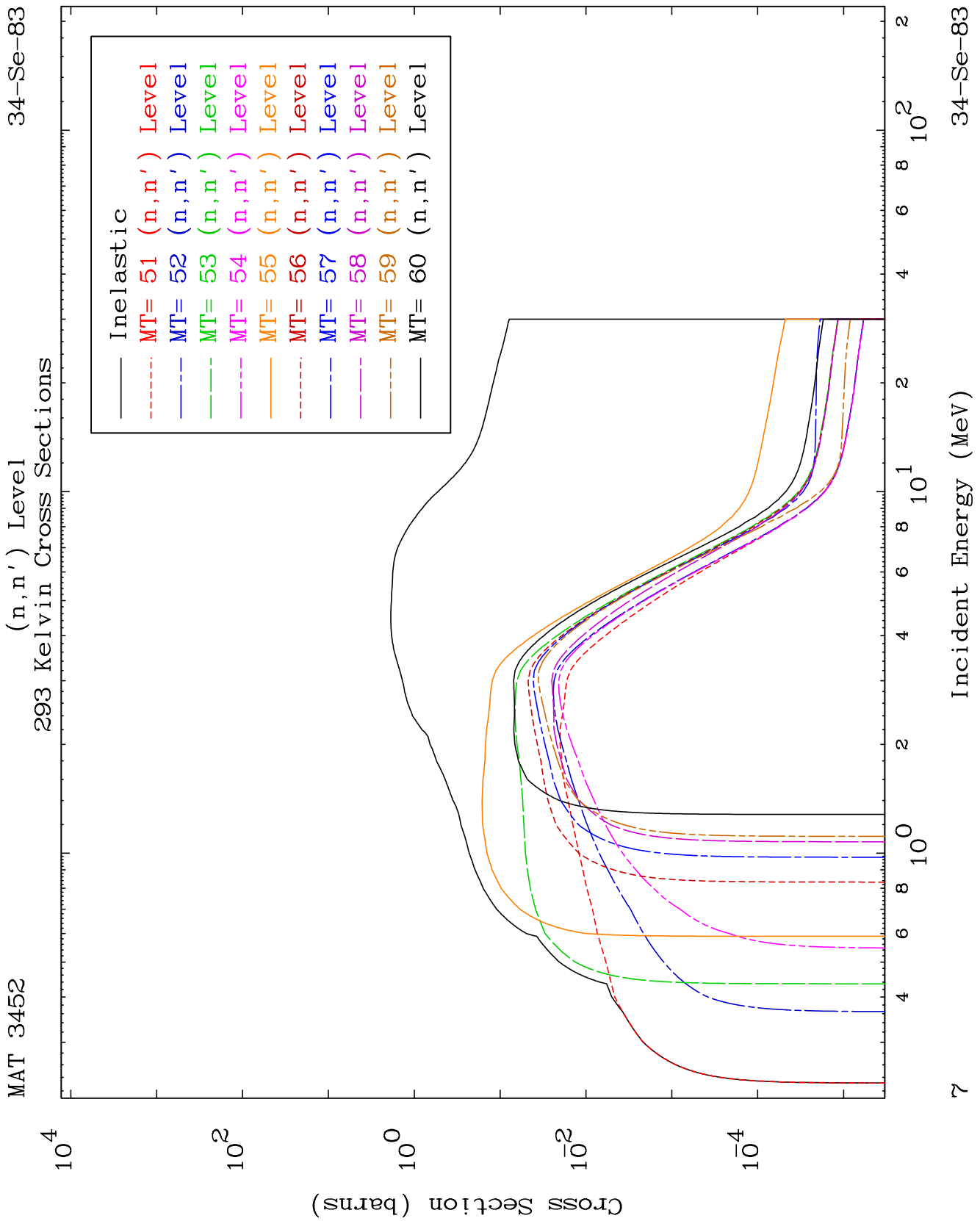
34-Se-83



6

Incident Energy (MeV)

34-Se-83



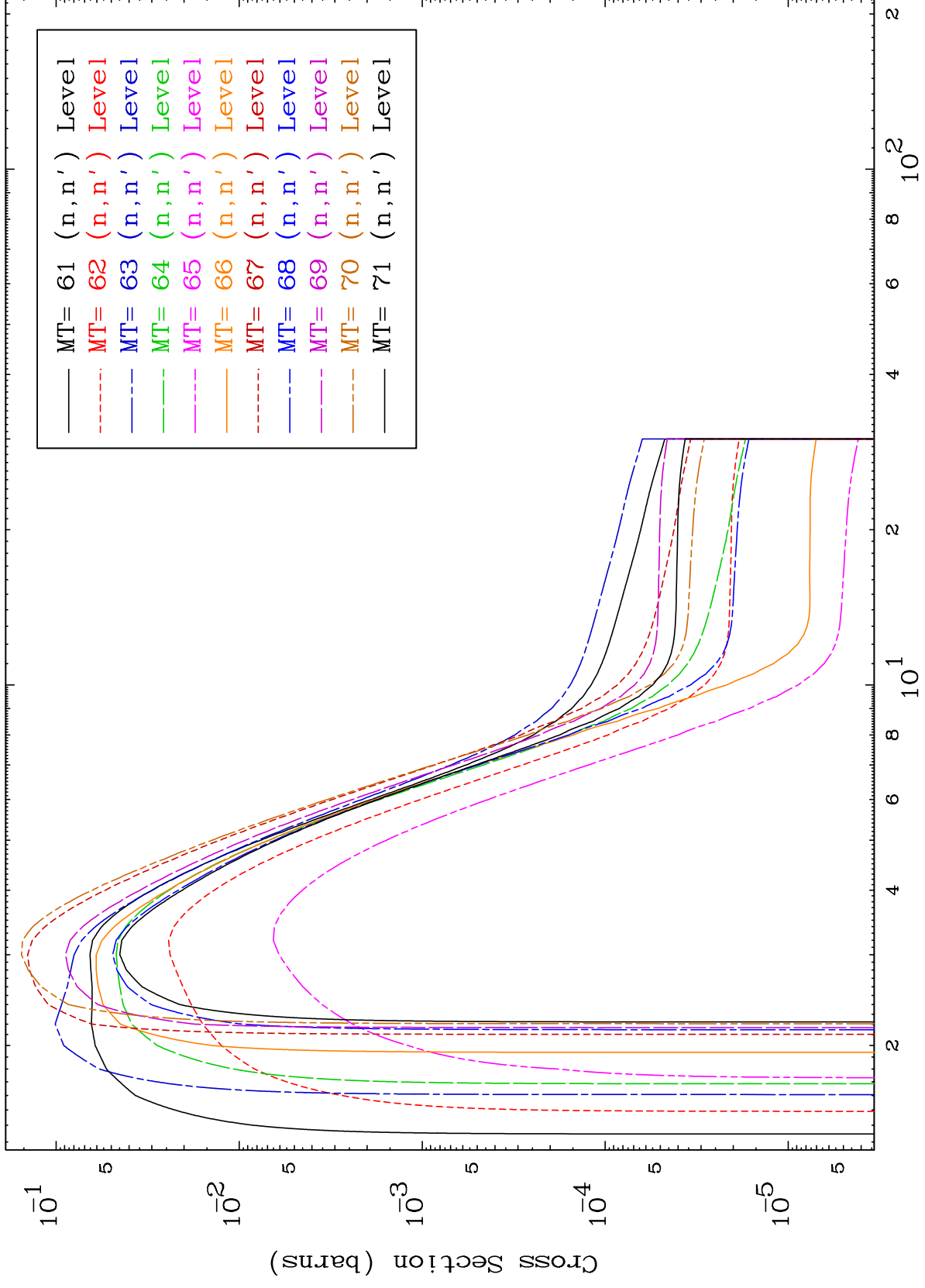


MAT 3452

(n,n') Level

34-Se-83

293 Kelvin Cross Sections

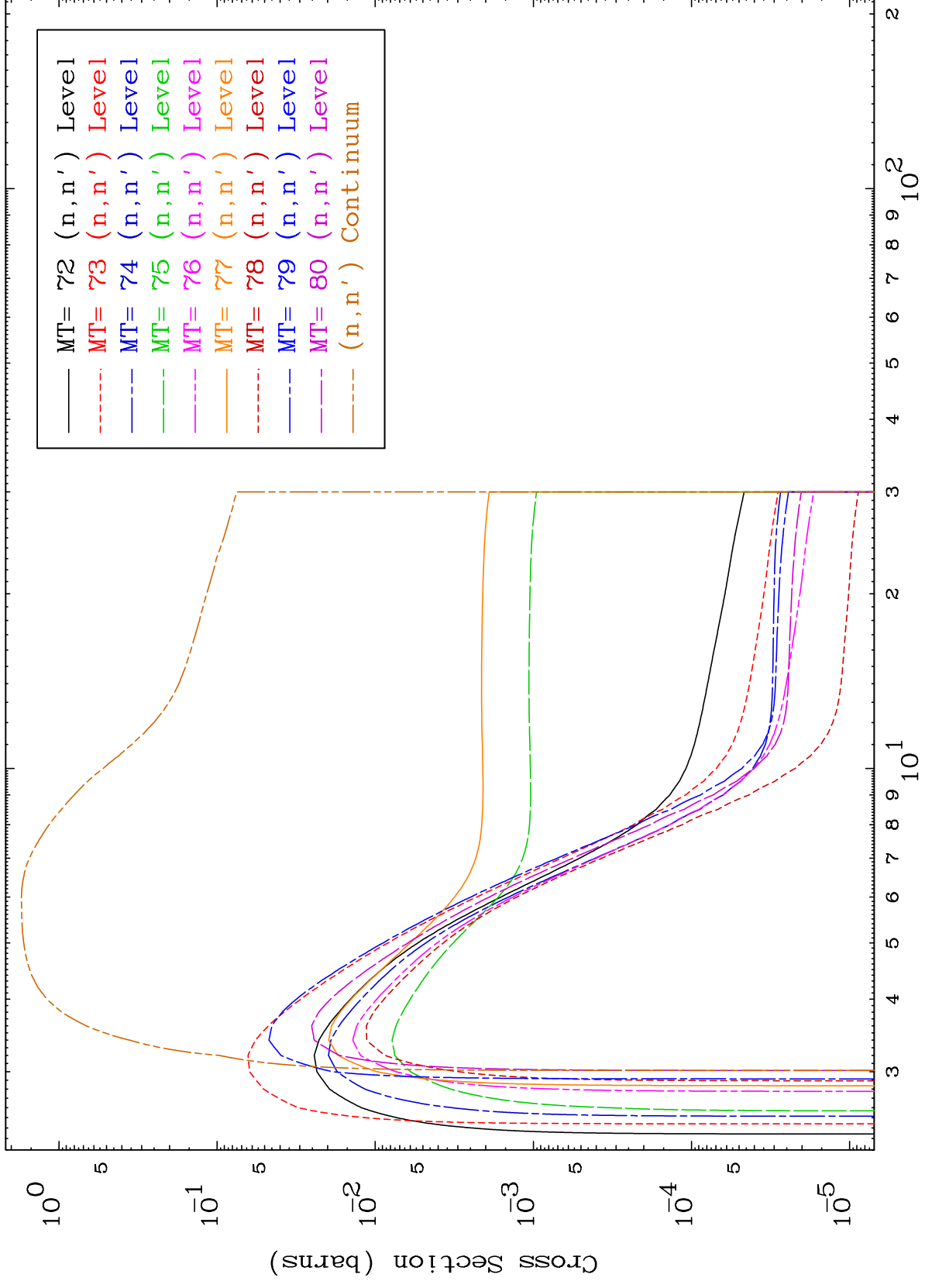


8

Incident Energy (MeV)

34-Se-83

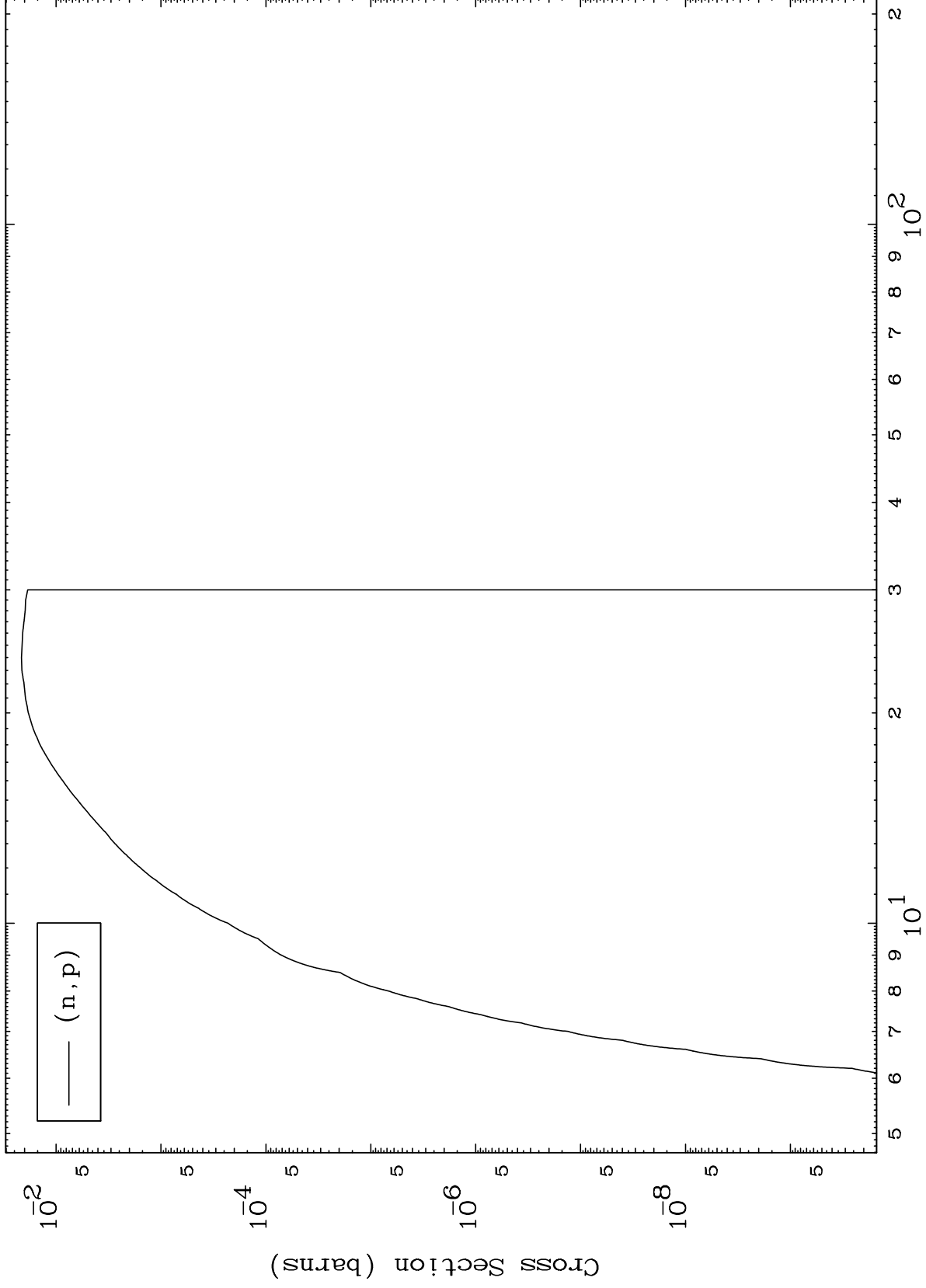
293 Kelvin Cross Sections



MAT 3452

(n,p) Levels  
293 Kelvin Cross Sections

34-Se-83



10

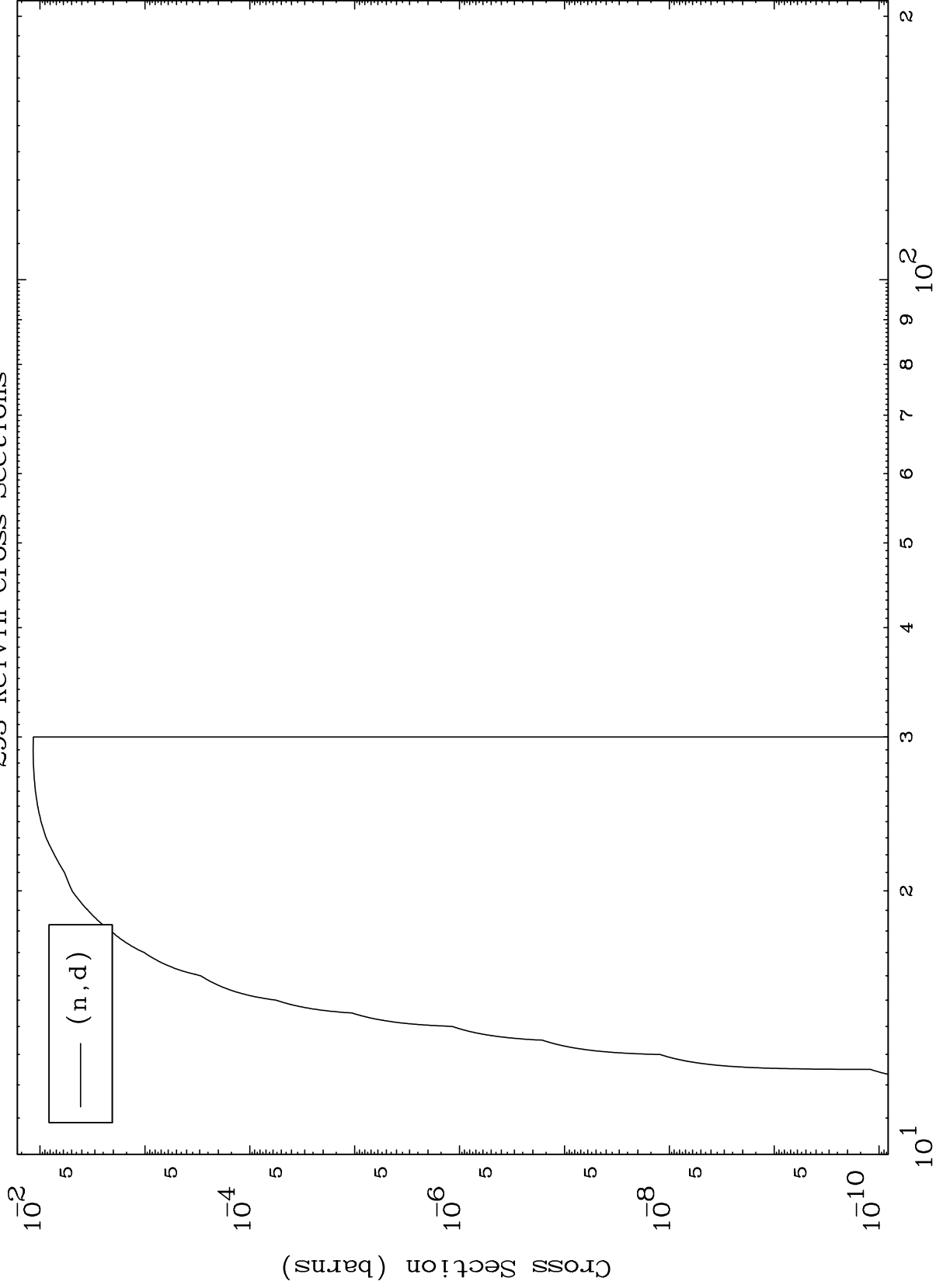
Incident Energy (MeV)

34-Se-83

MAT 3452

(n,d) Levels  
293 Kelvin Cross Sections

<sup>34</sup>Se-83



11

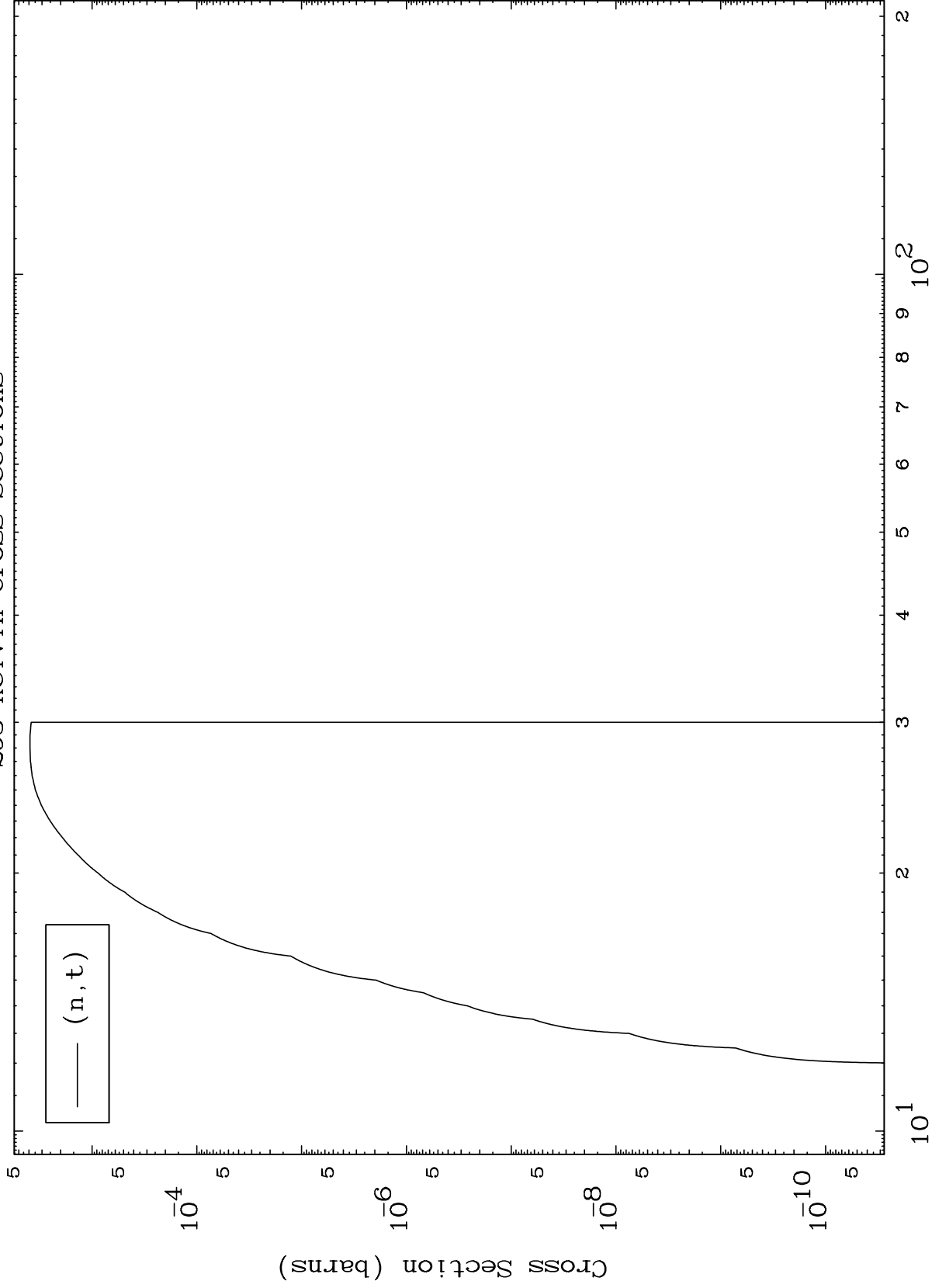
Incident Energy (MeV)

<sup>34</sup>Se-83

MAT 3452

(n,t) Levels  
293 Kelvin Cross Sections

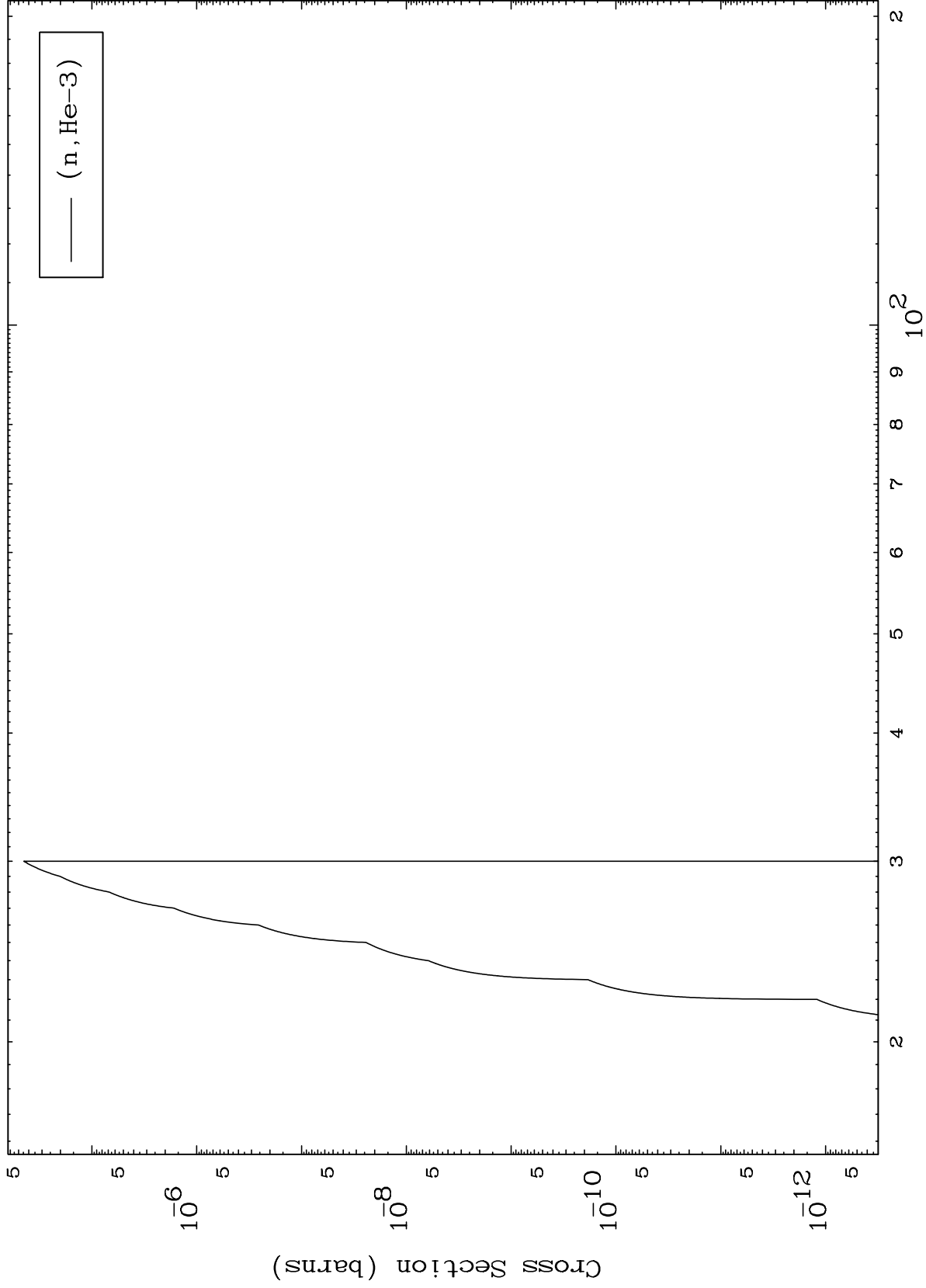
<sup>34</sup>Se-83



Incident Energy (MeV)

<sup>34</sup>Se-83

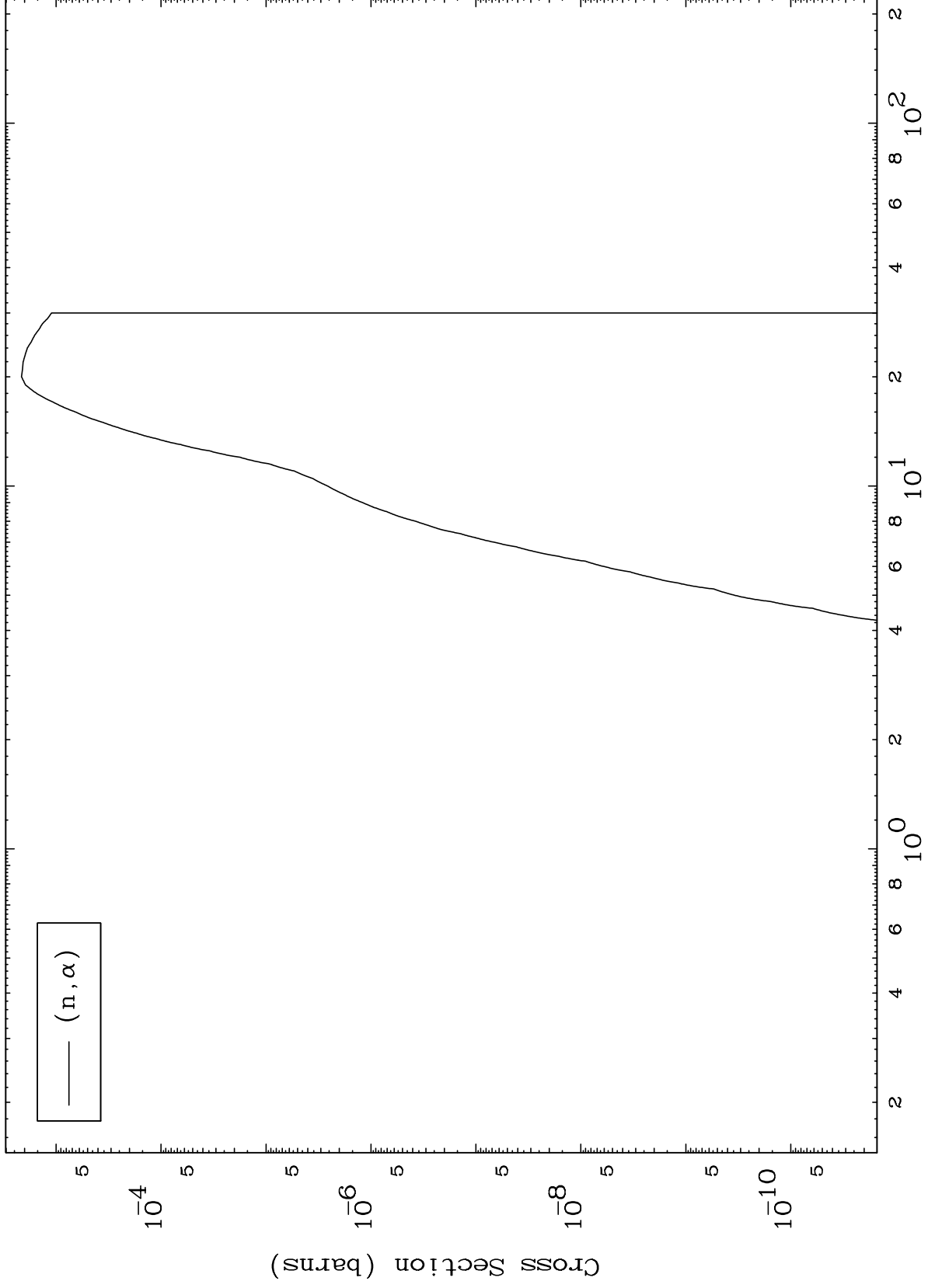
12



MAT 3452

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

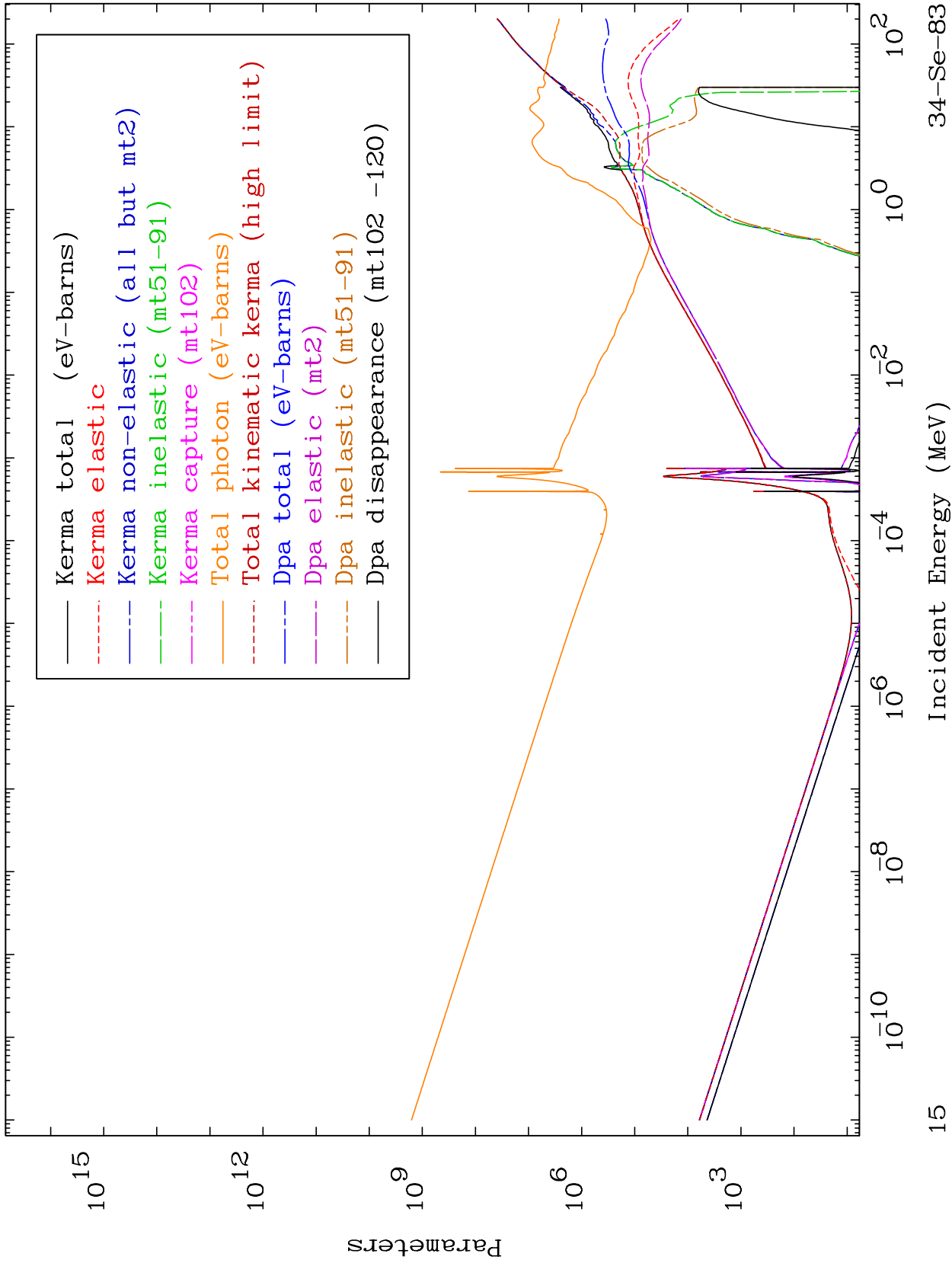
34-Se-83



14

Incident Energy (MeV)

34-Se-83

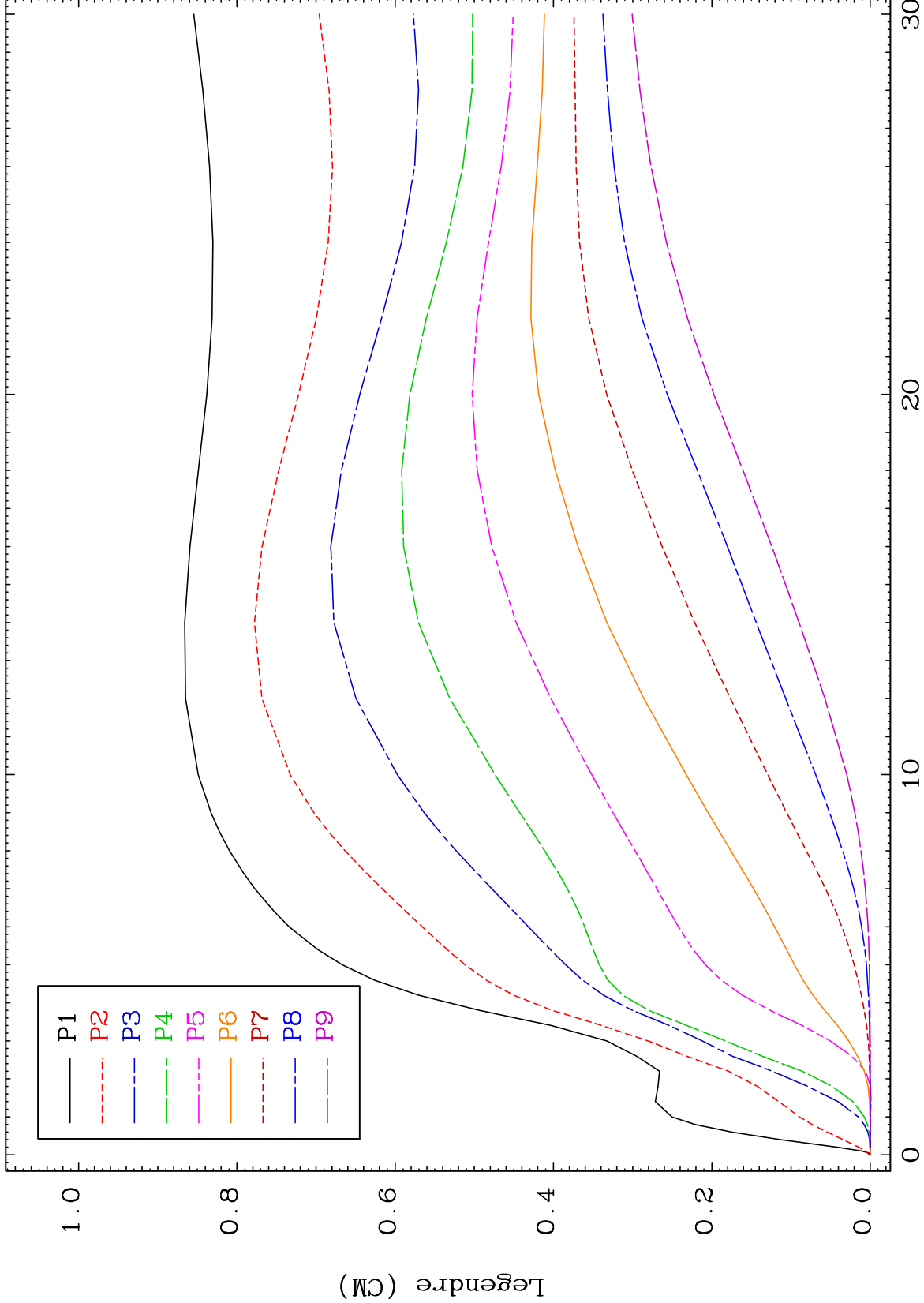




MAT 3452

Elastic Legendre Coefficients

<sup>34</sup>Se-83



16

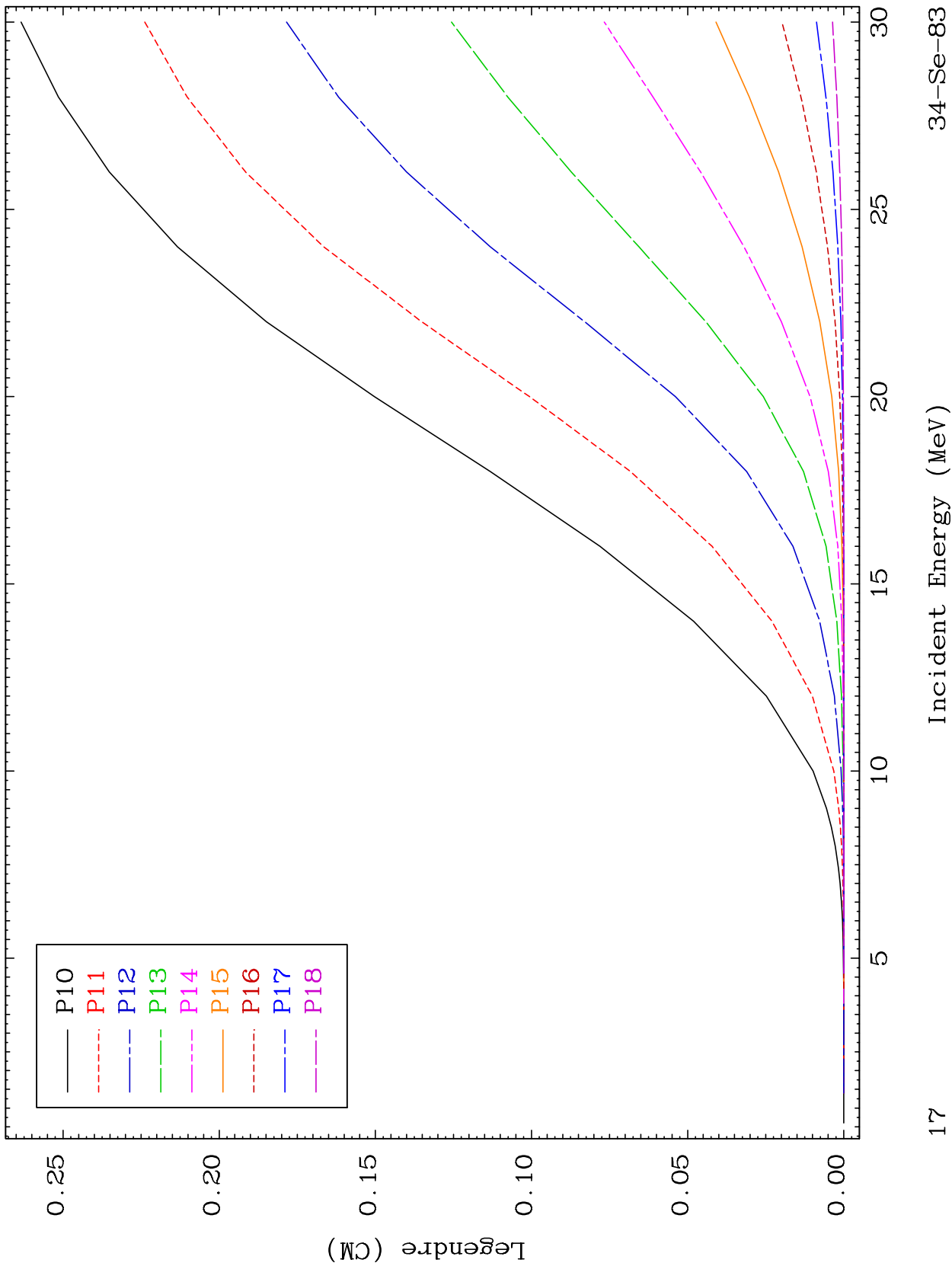
Incident Energy (MeV)

<sup>34</sup>Se-83

MAT 3452

Elastic Legendre Coefficients

<sup>34</sup>Se-83



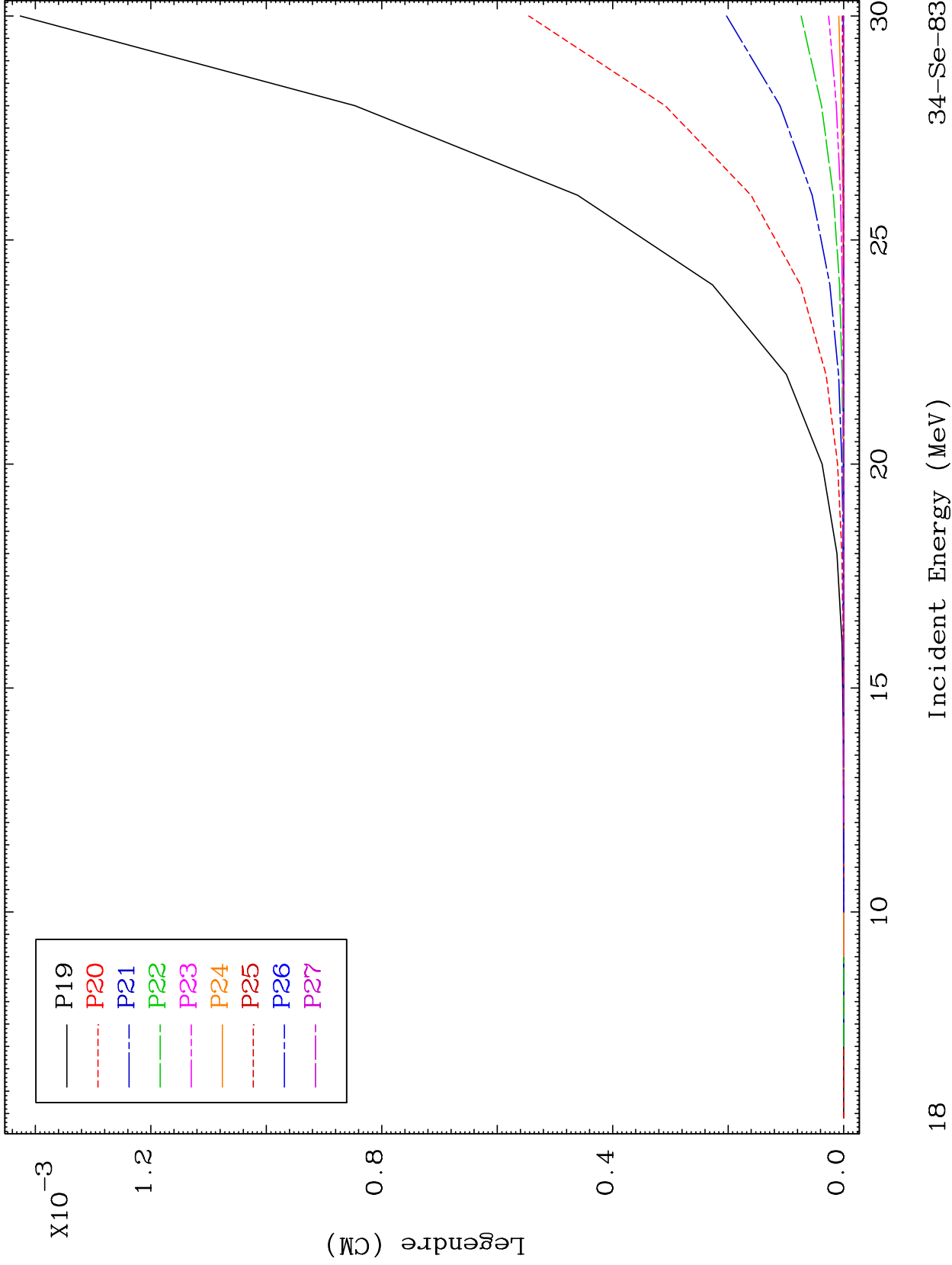
17

<sup>34</sup>Se-83

MAT 3452

### Elastic Legendre Coefficients

<sup>34</sup>Se-83



18

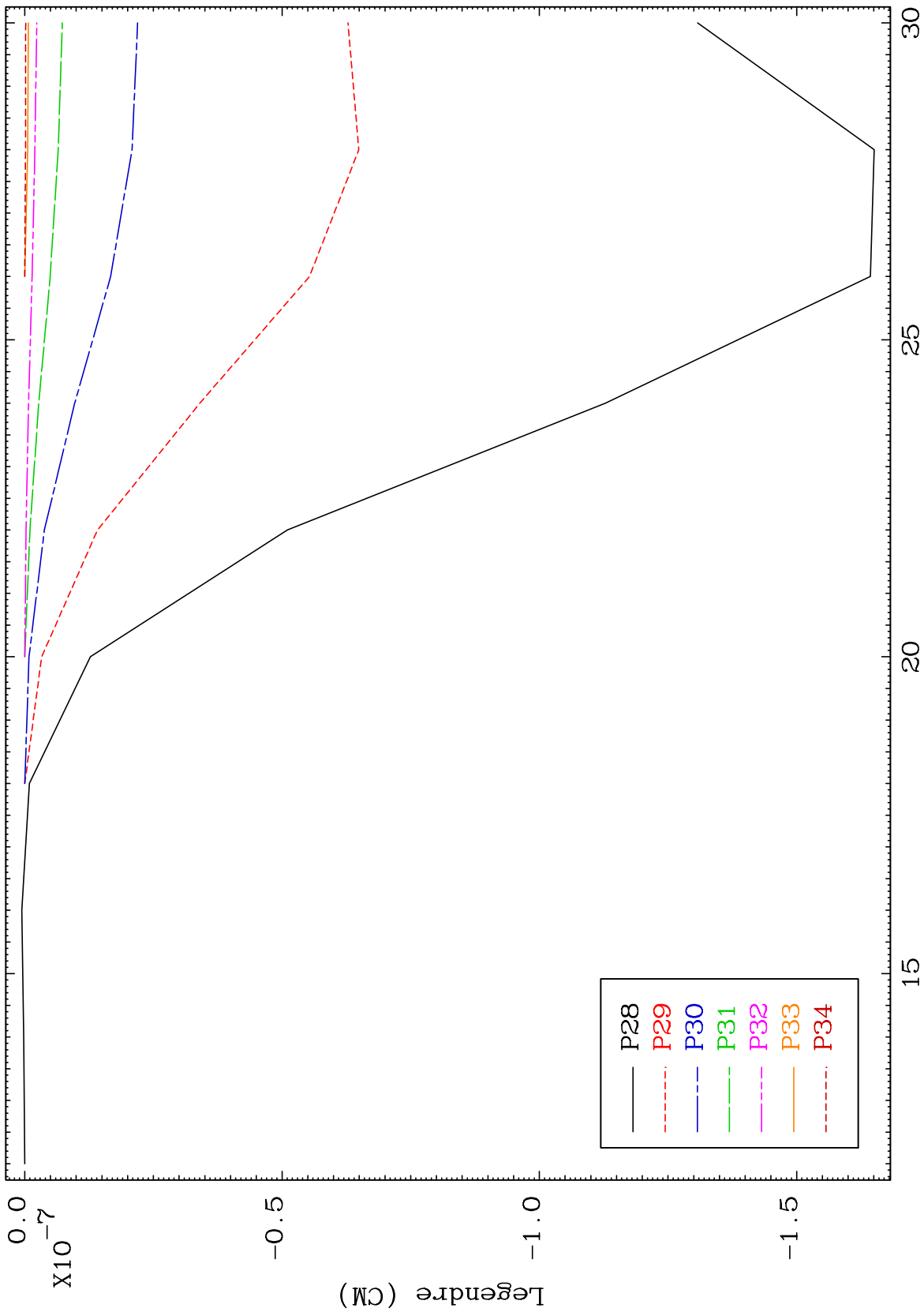
Incident Energy (MeV)

<sup>34</sup>Se-83

MAT 3452

34-Se-83

Elastic Legendre Coefficients



19

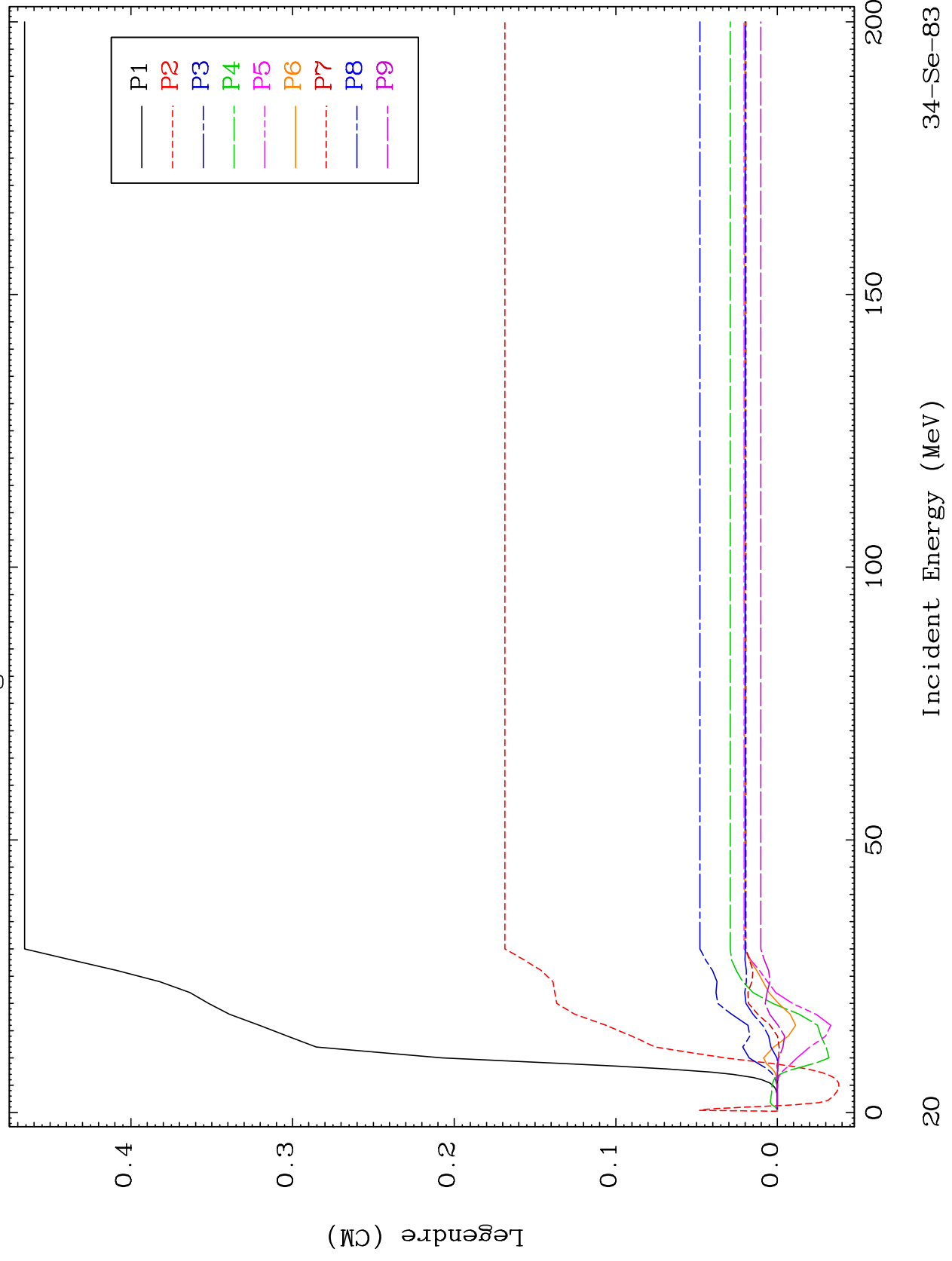
Incident Energy (MeV)

34-Se-83

MAT 3452

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

34-Se-83



34-Se-83

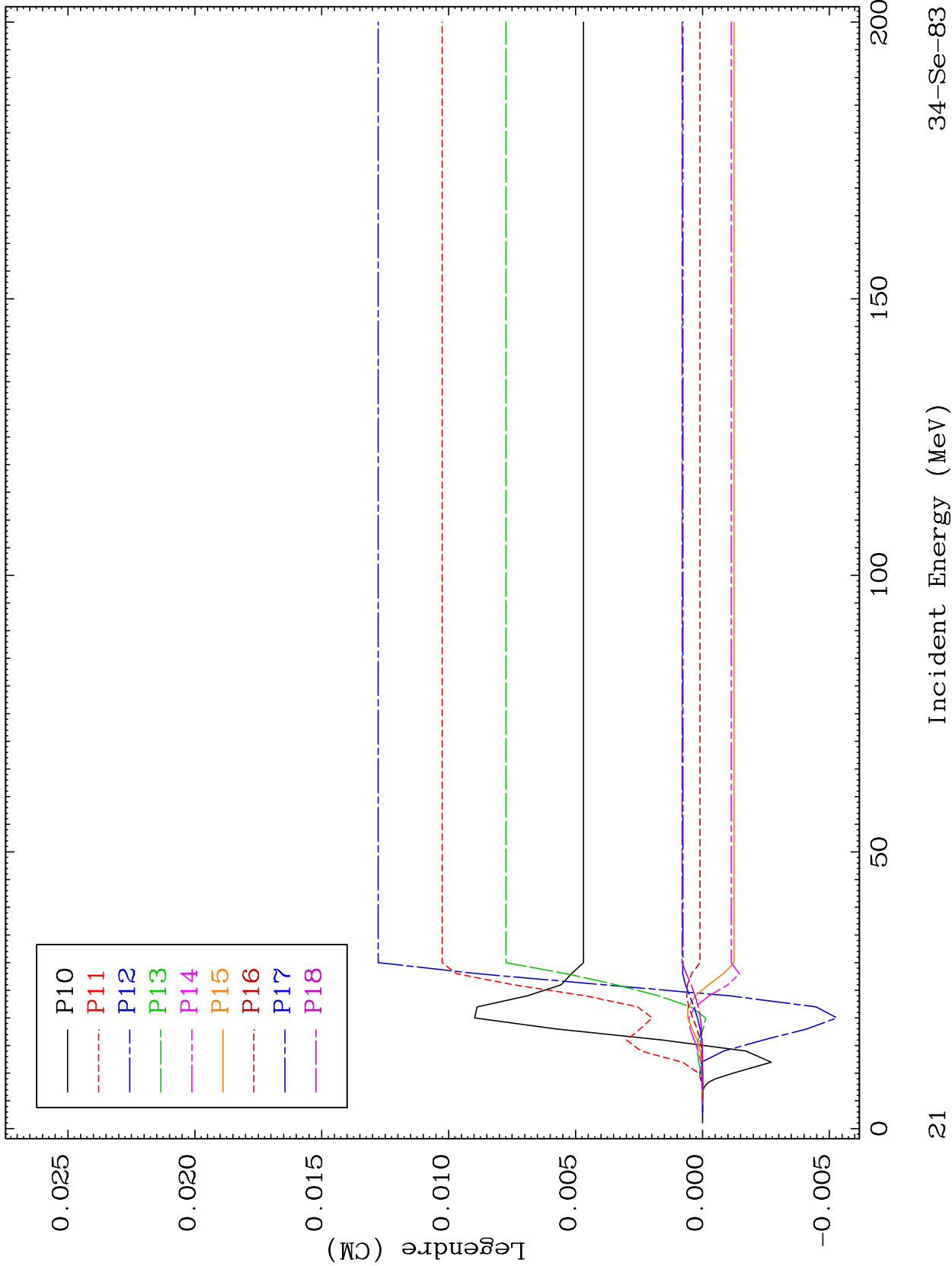
Incident Energy (MeV)

Legendre (CM)

MAT 3452

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

34-Se-83



21

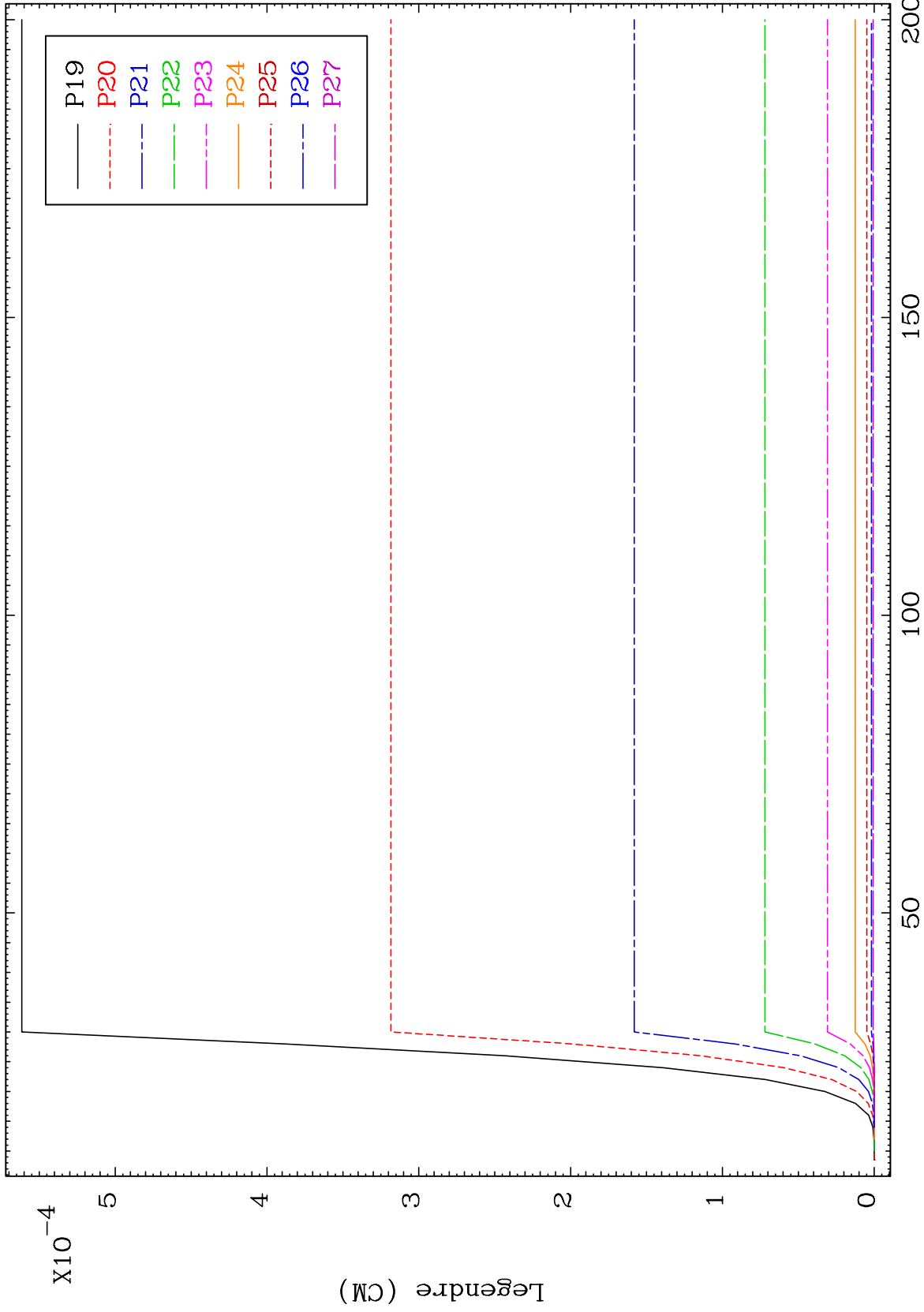
Incident Energy (MeV)

34-Se-83

MAT 3452

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

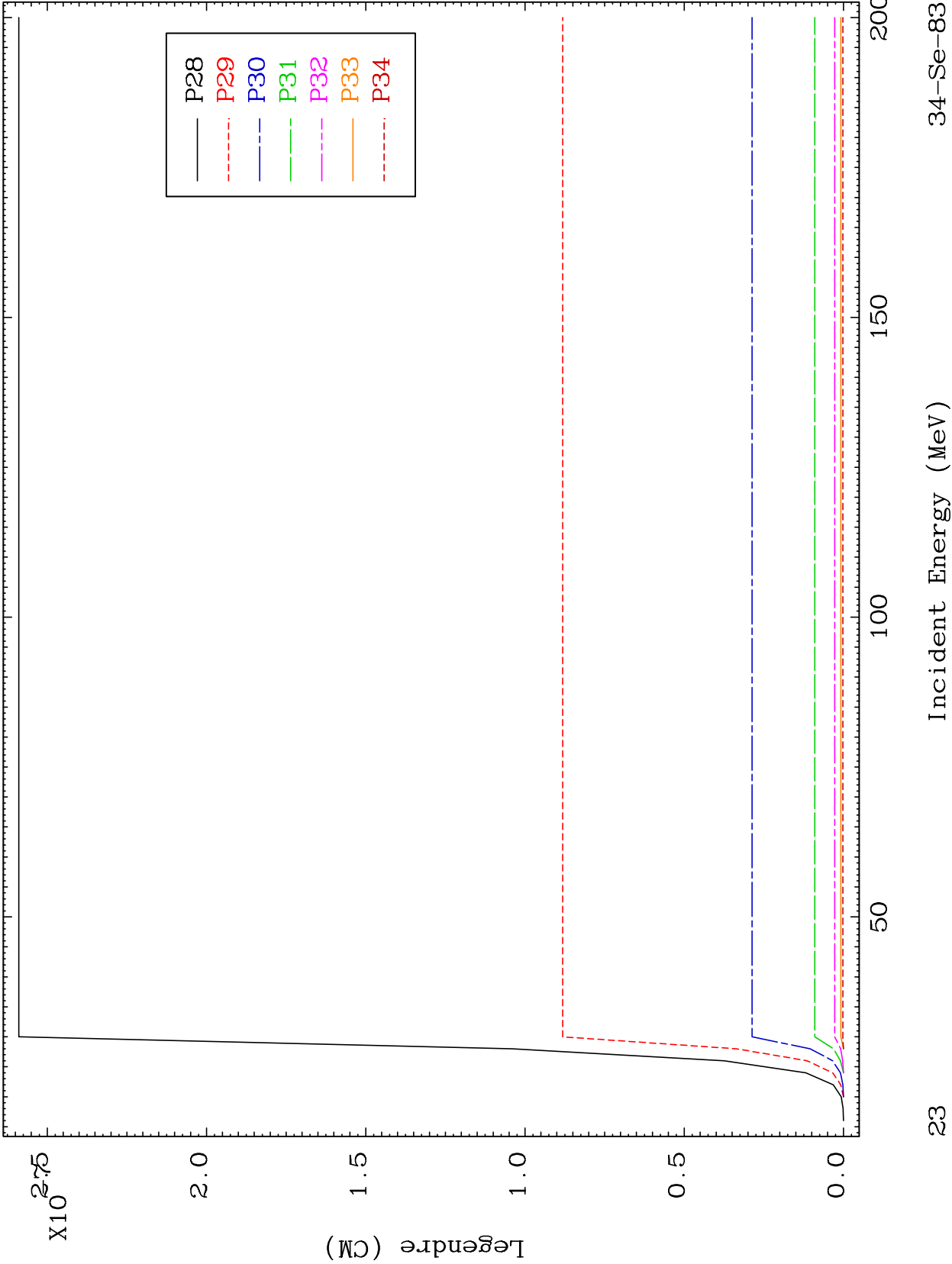
<sup>34</sup>Se-83



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Incident Energy (MeV)

<sup>34</sup>Se-83

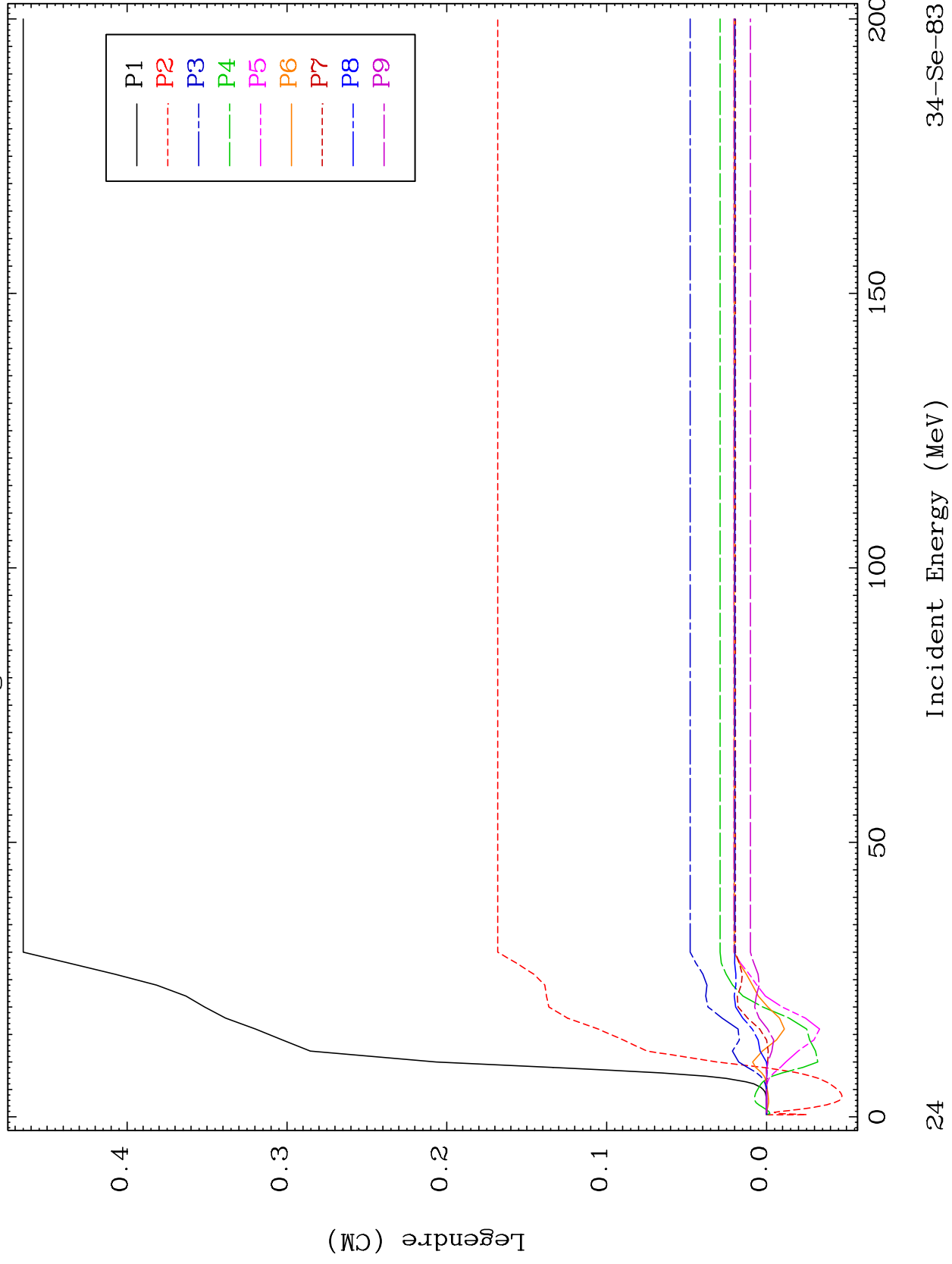




MAT 3452

MT= 52 (n,n') Level  
Legendre Coefficients

<sup>34</sup>Se-83



<sup>34</sup>Se-83

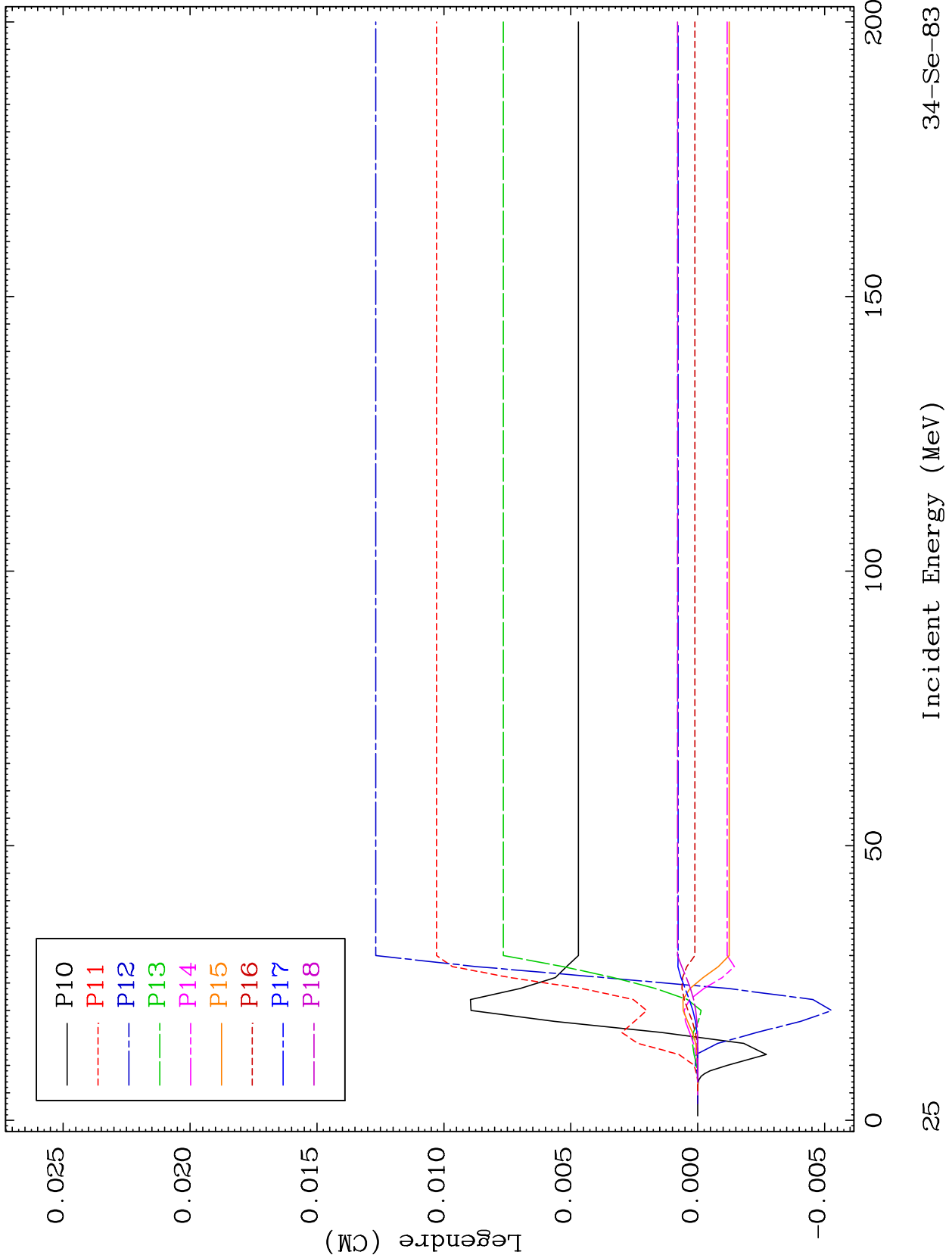
Incident Energy (MeV)

24

MAT 3452

MT= 52 (n,n') Level  
Legendre Coefficients

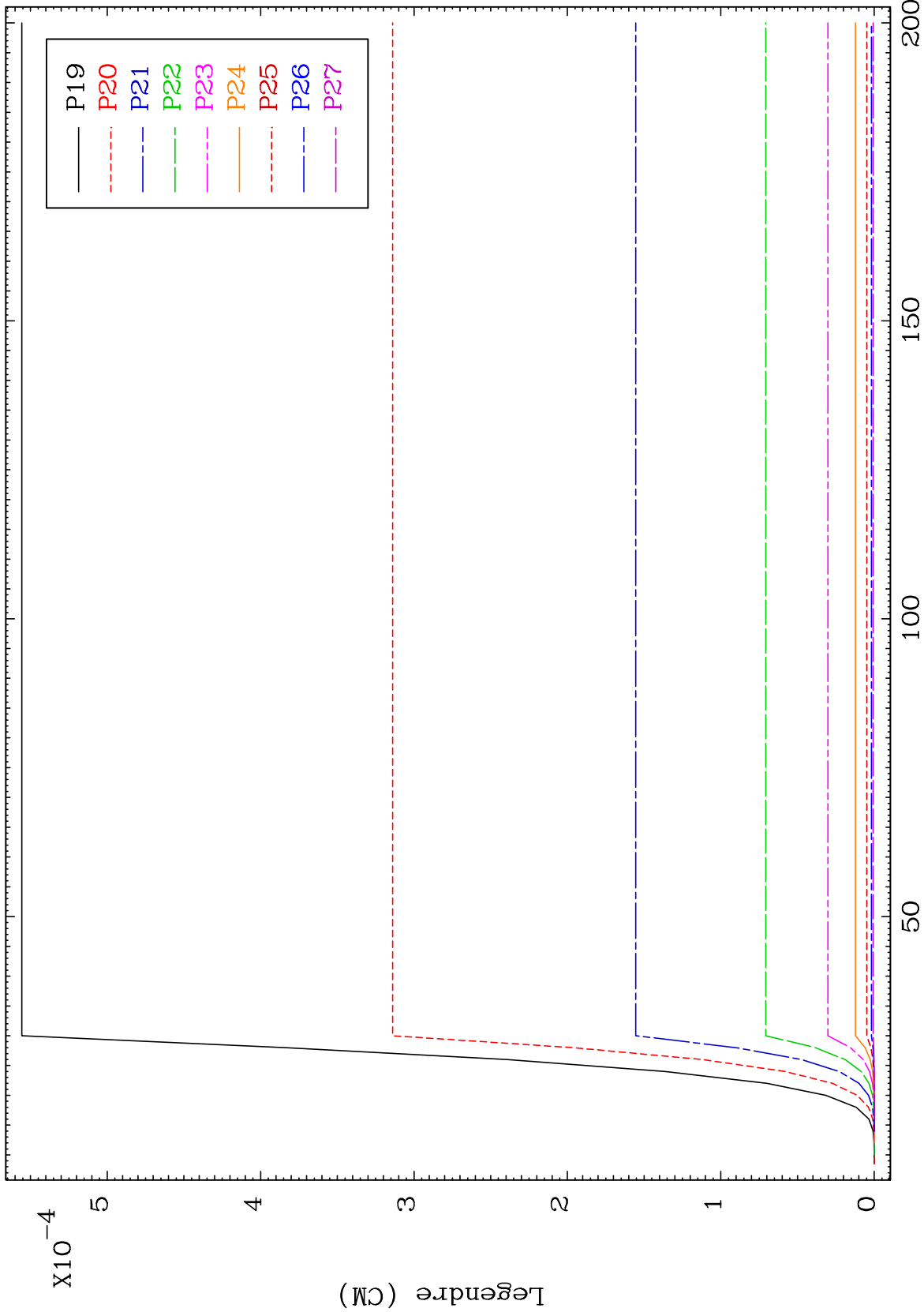
34-Se-83



MAT 3452

MT= 52 (n,n') Level  
Legendre Coefficients

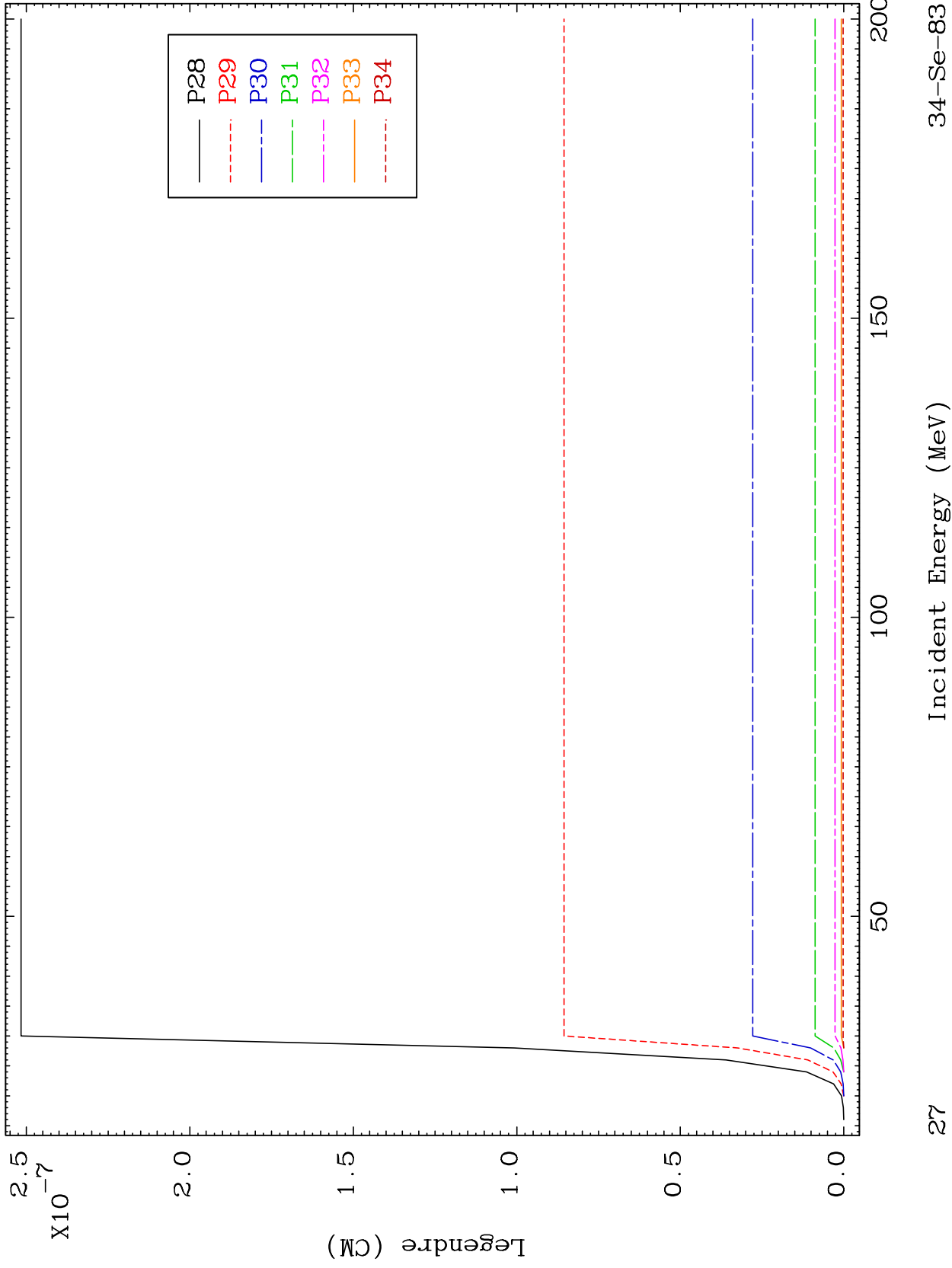
<sup>34</sup>Se-83



26

Incident Energy (MeV)

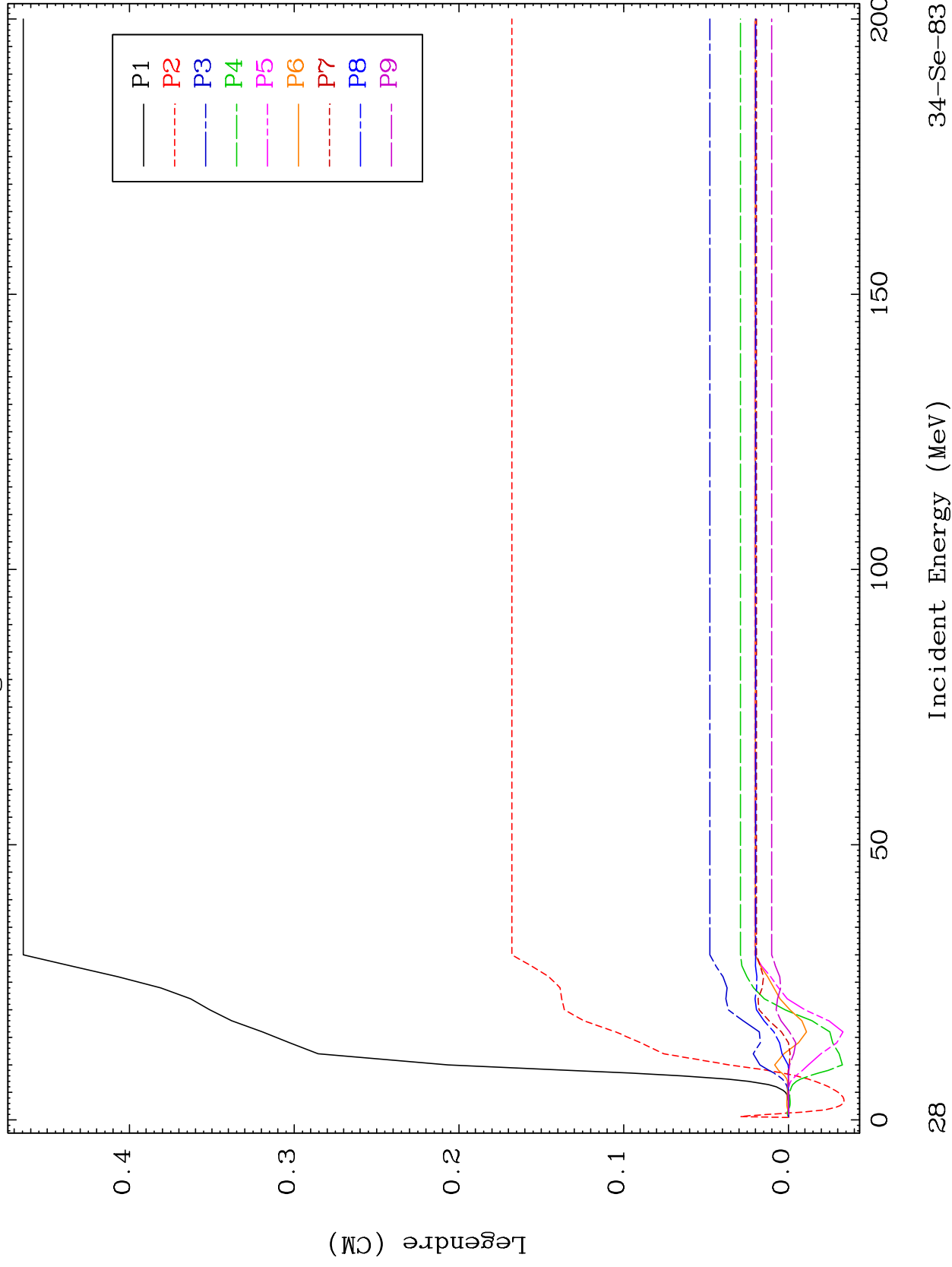
<sup>34</sup>Se-83



MAT 3452

MT= 53 (n,n') Level  
Legendre Coefficients

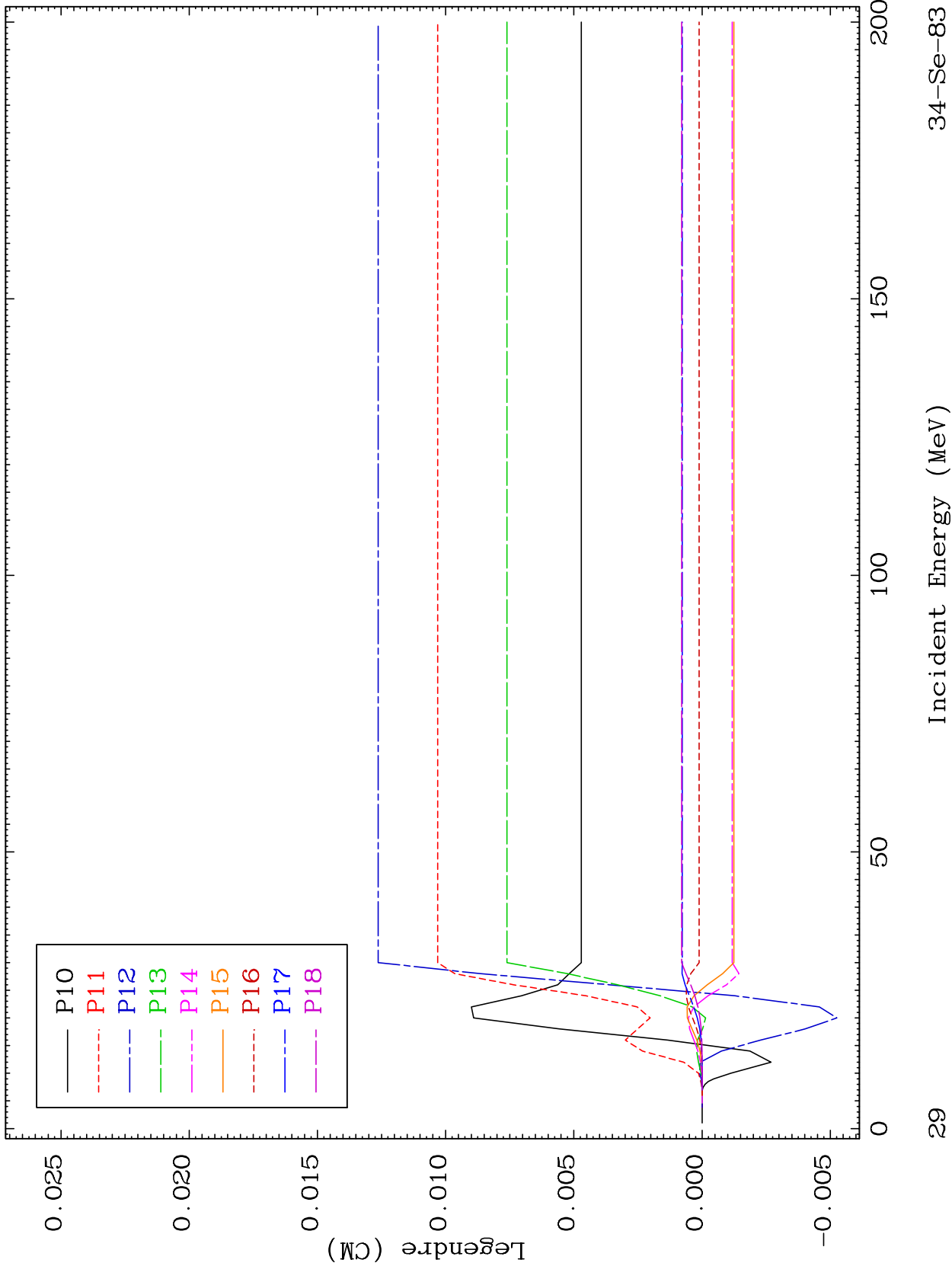
34-Se-83



34-Se-83

Incident Energy (MeV)

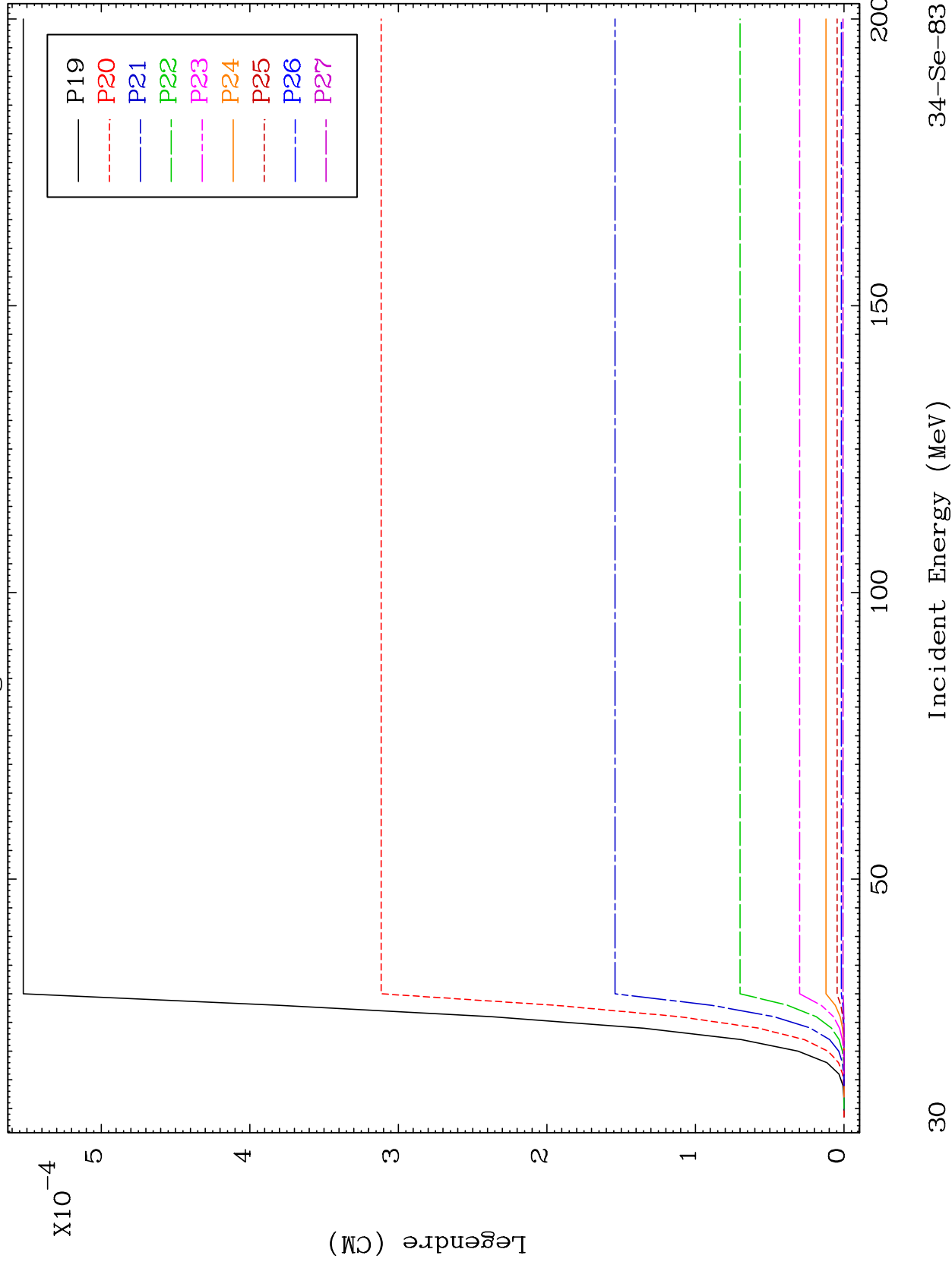
28

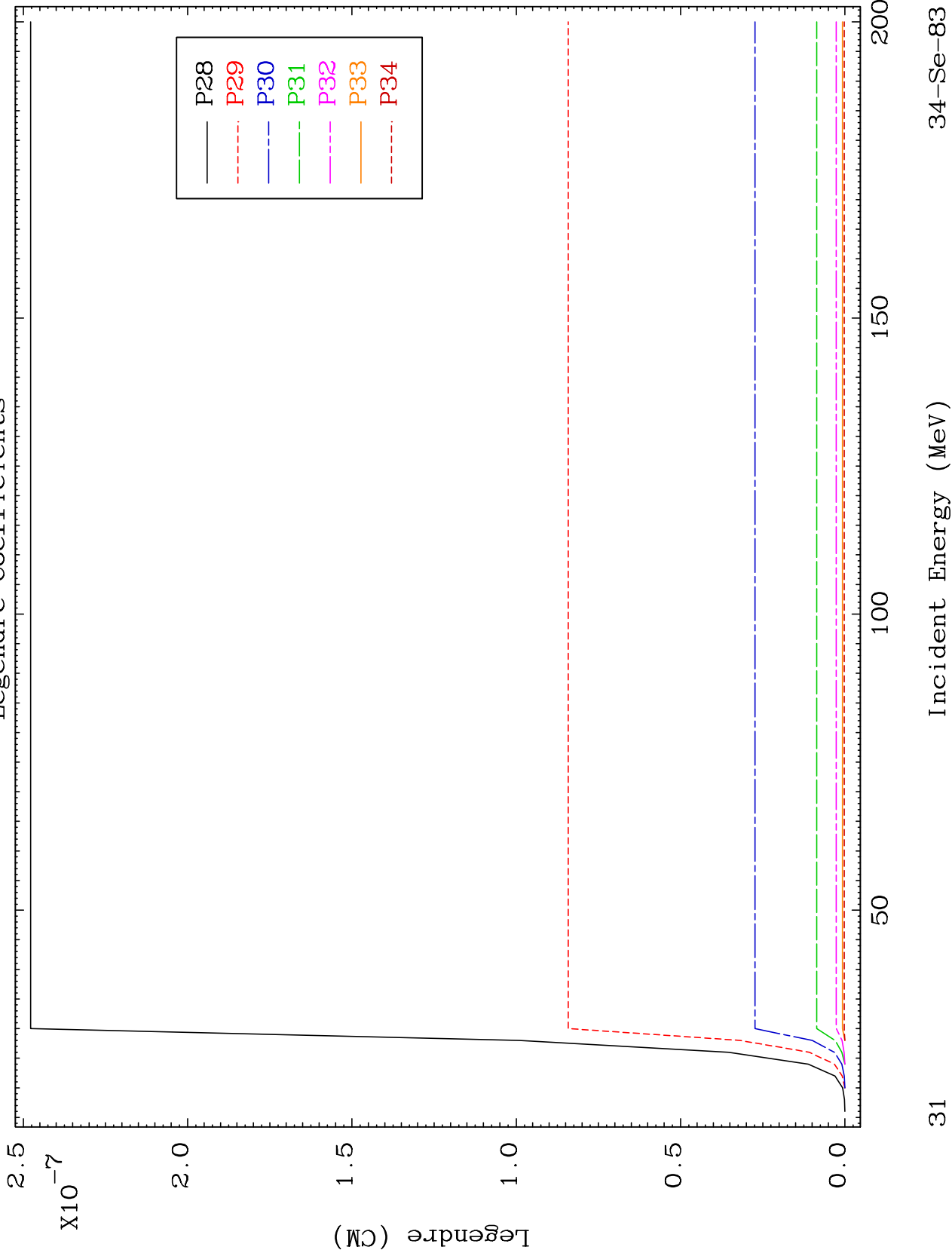


MAT 3452

MT= 53 (n,n') Level  
Legendre Coefficients

<sup>34</sup>Se-83



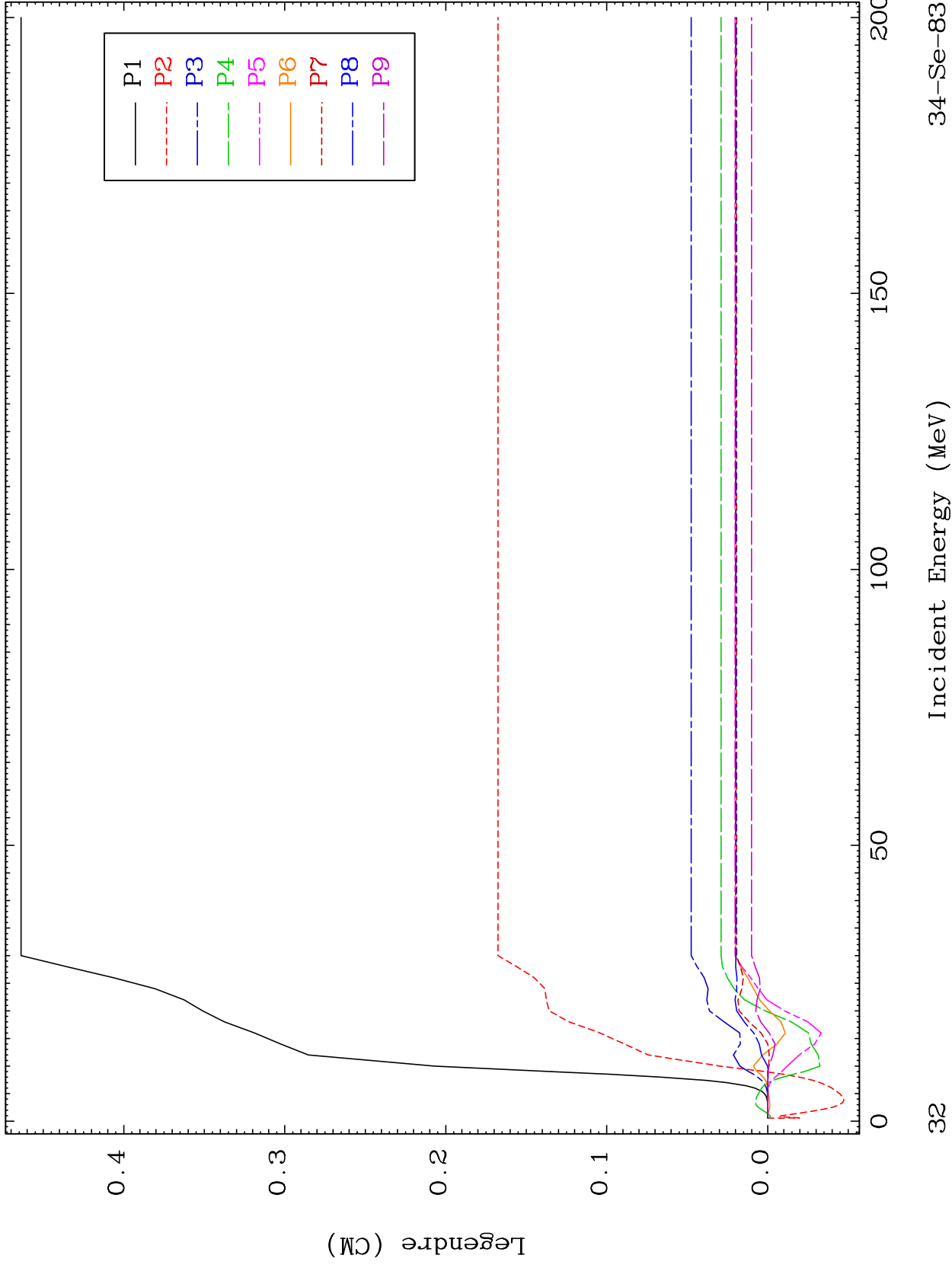




MAT 3452

MT= 54 (n,n') Level  
Legendre Coefficients

<sup>34</sup>Se-83



<sup>34</sup>Se-83

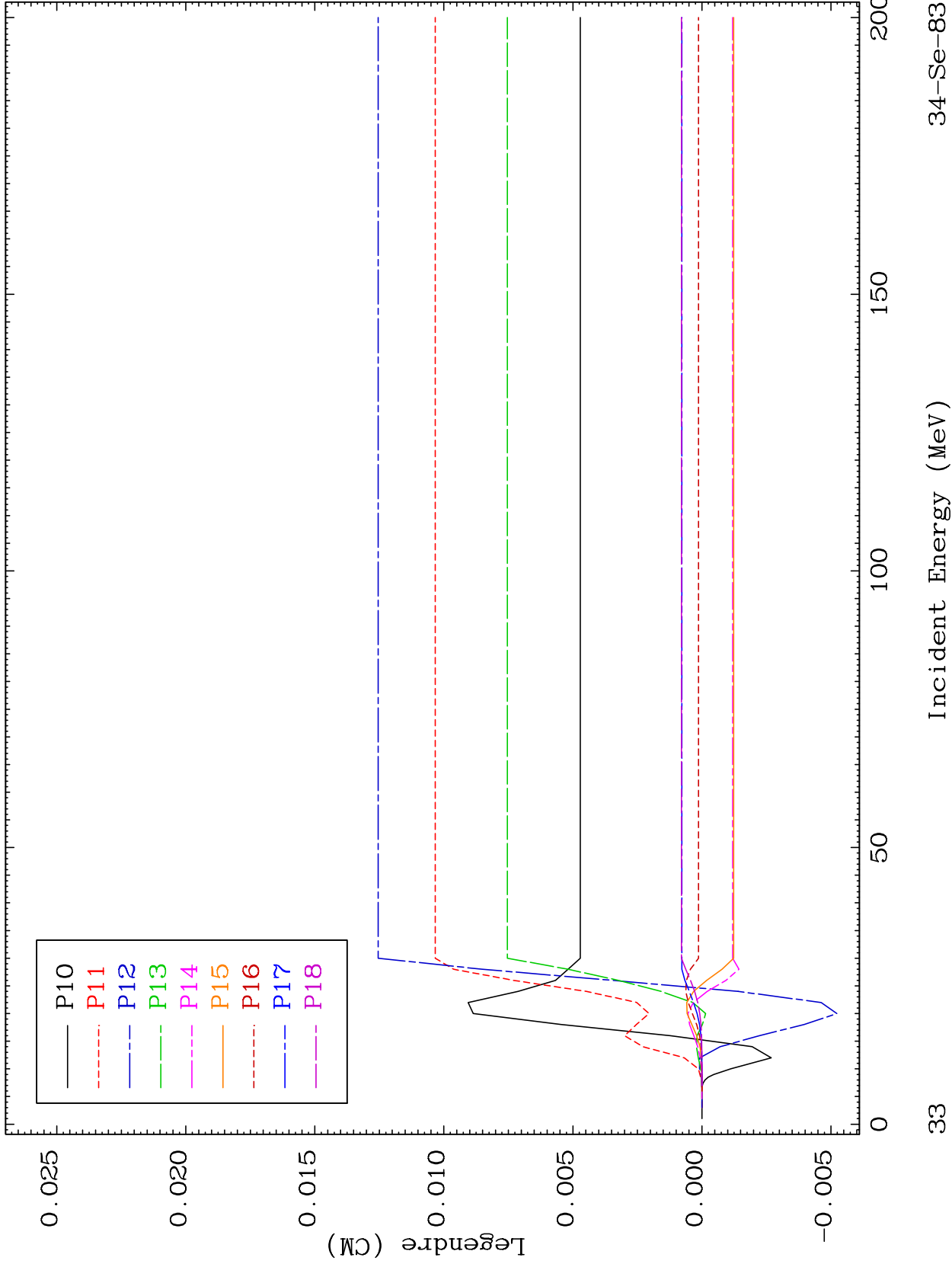
Incident Energy (MeV)

32

MAT 3452

MT= 54 (n,n') Level  
Legendre Coefficients

34-Se-83



33

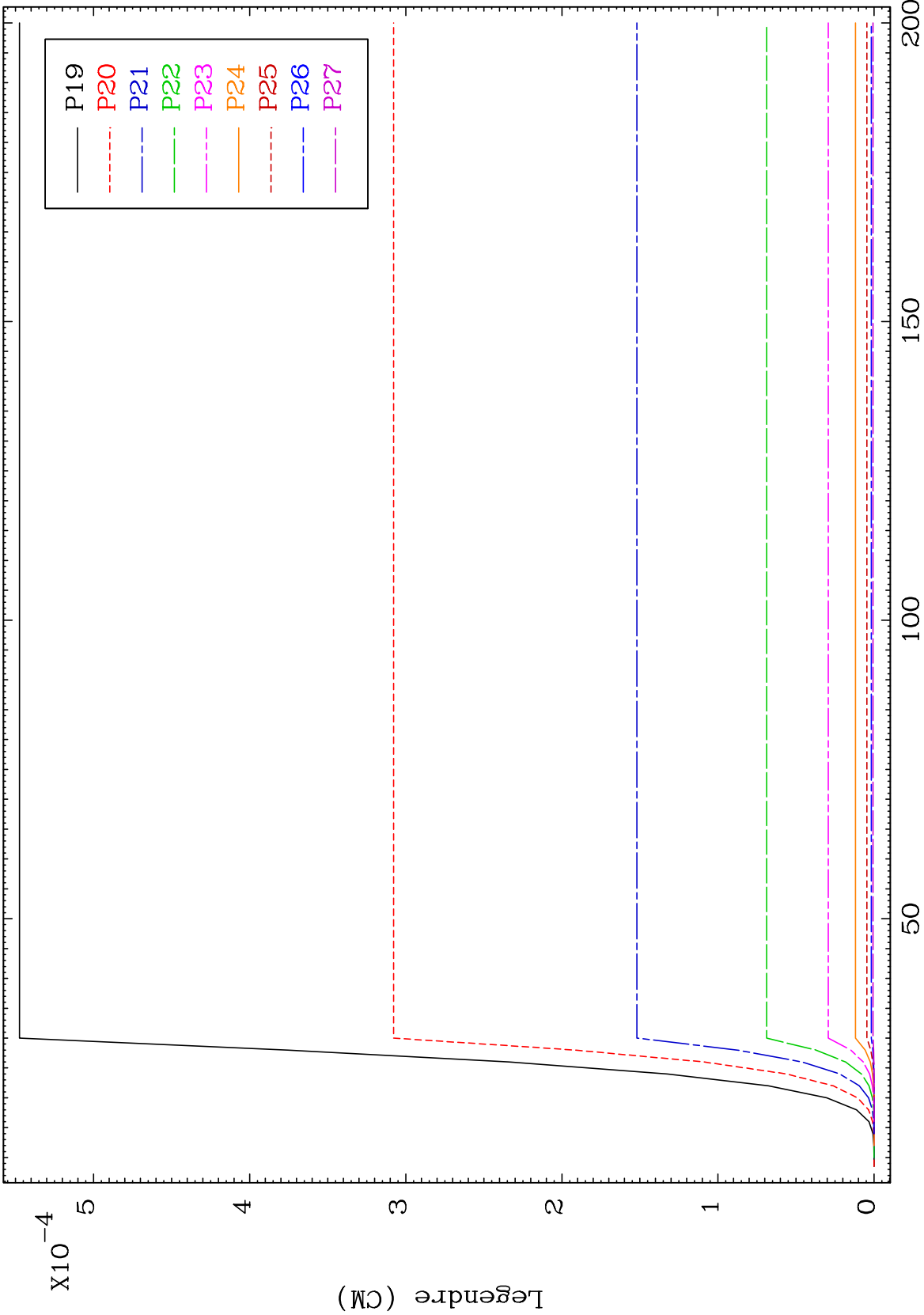
Incident Energy (MeV)

34-Se-83

MAT 3452

MT= 54 (n,n') Level  
Legendre Coefficients

<sup>34</sup>Se-83



34

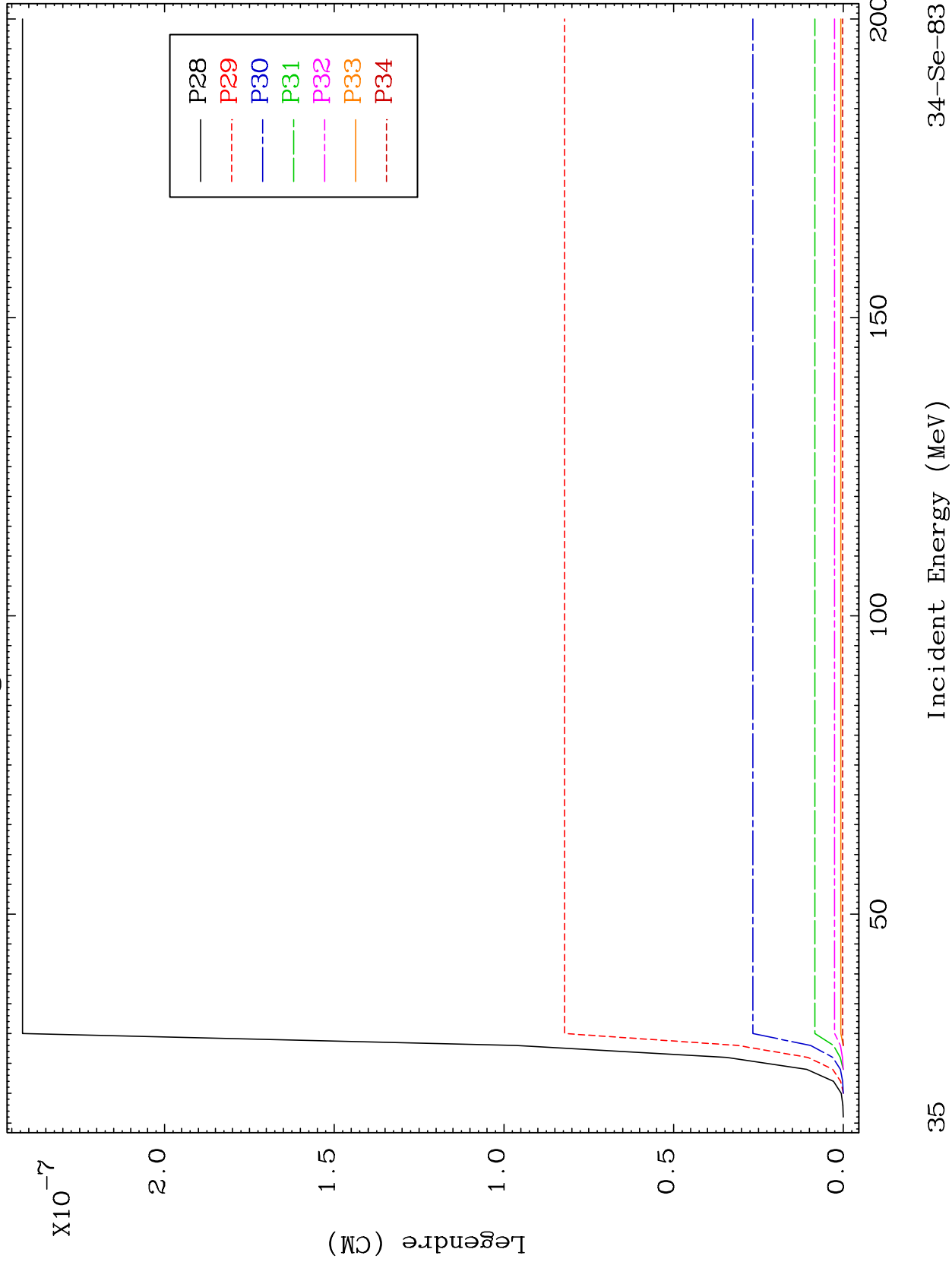
Incident Energy (MeV)

<sup>34</sup>Se-83

MAT 3452

MT= 54 (n,n') Level  
Legendre Coefficients

34-Se-83



35

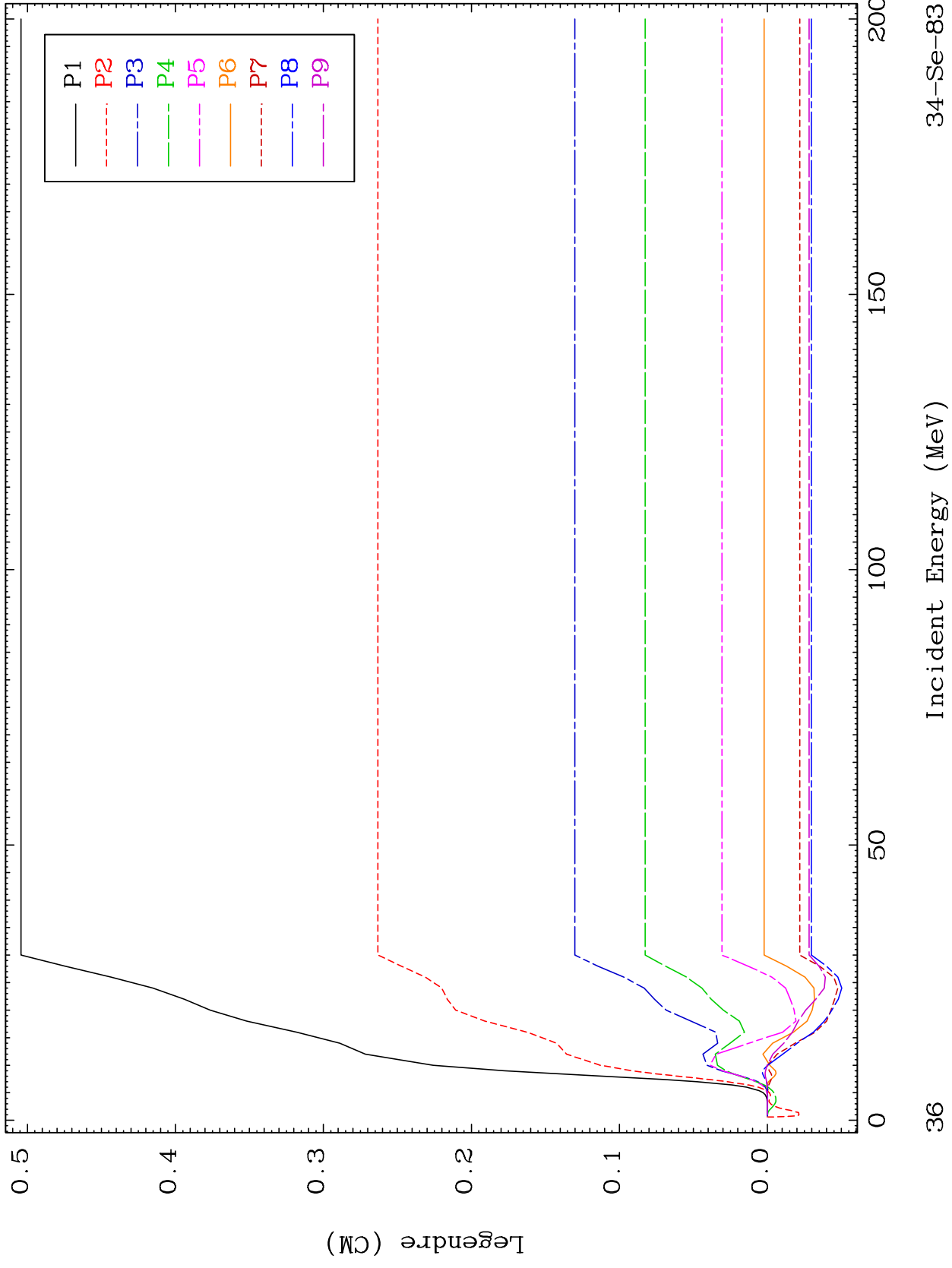
Incident Energy (MeV)

34-Se-83

MAT 3452

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

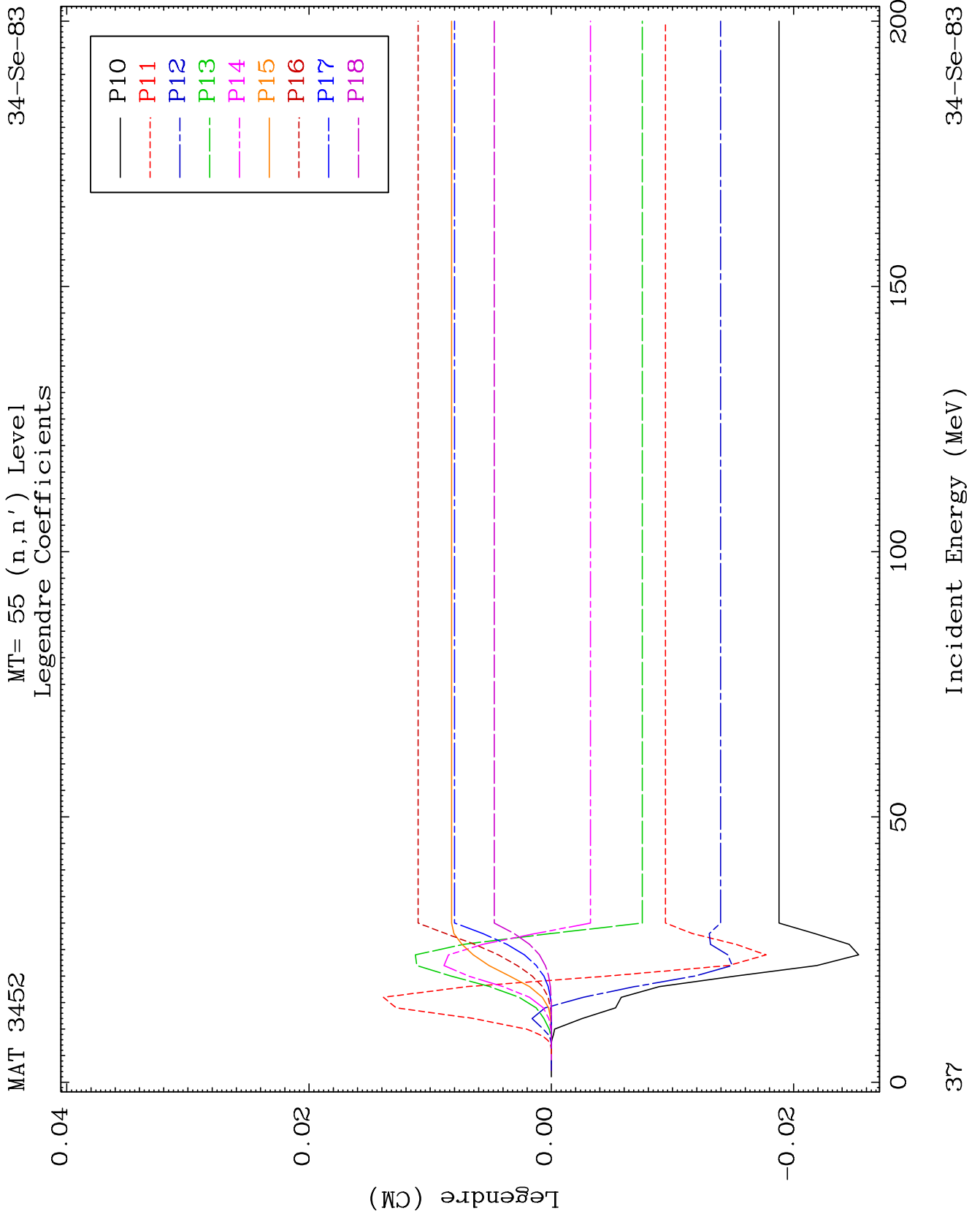
<sup>34</sup>Se-83



<sup>34</sup>Se-83

Incident Energy (MeV)

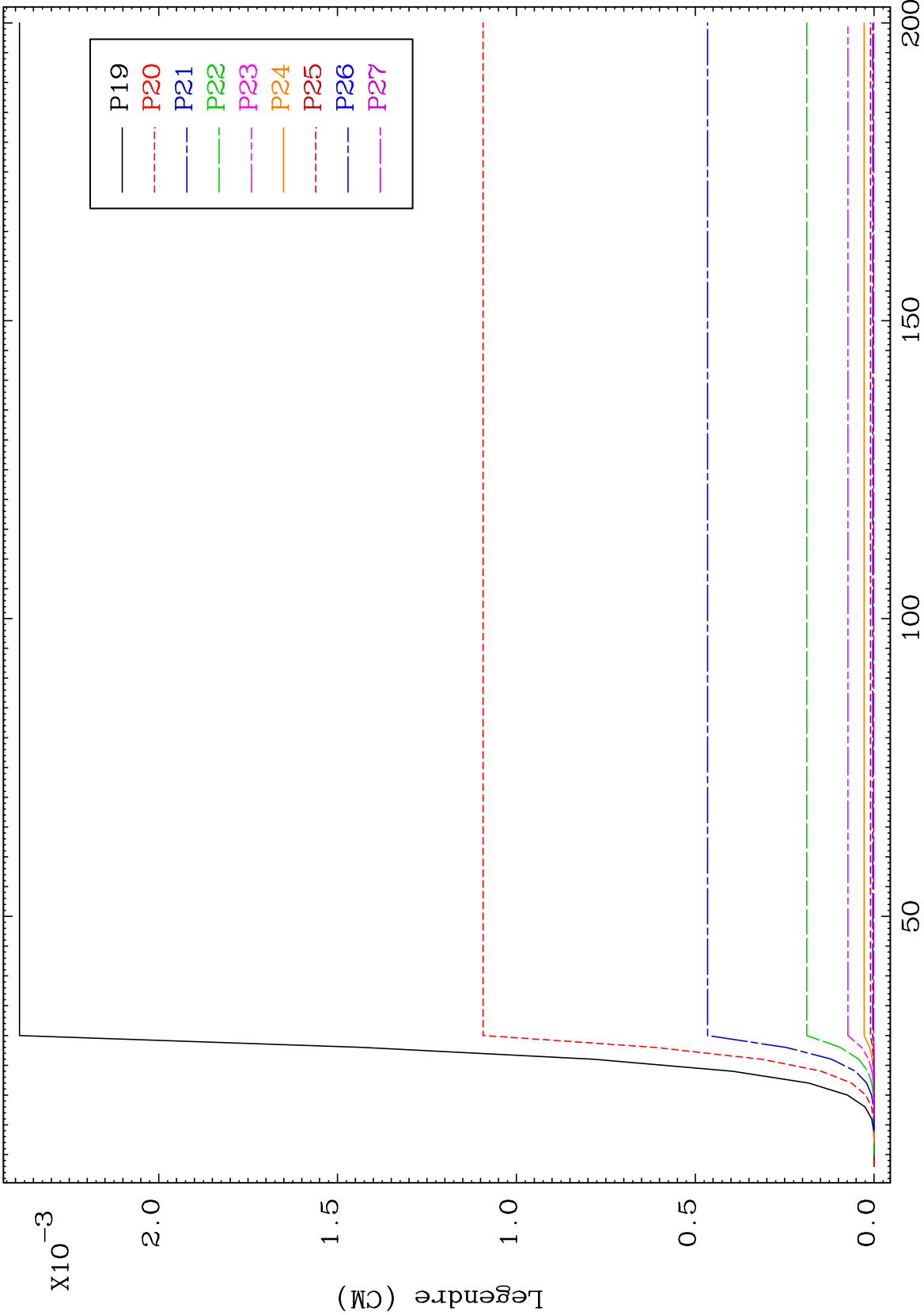
36



MAT 3452

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

<sup>34</sup>Se-83



38

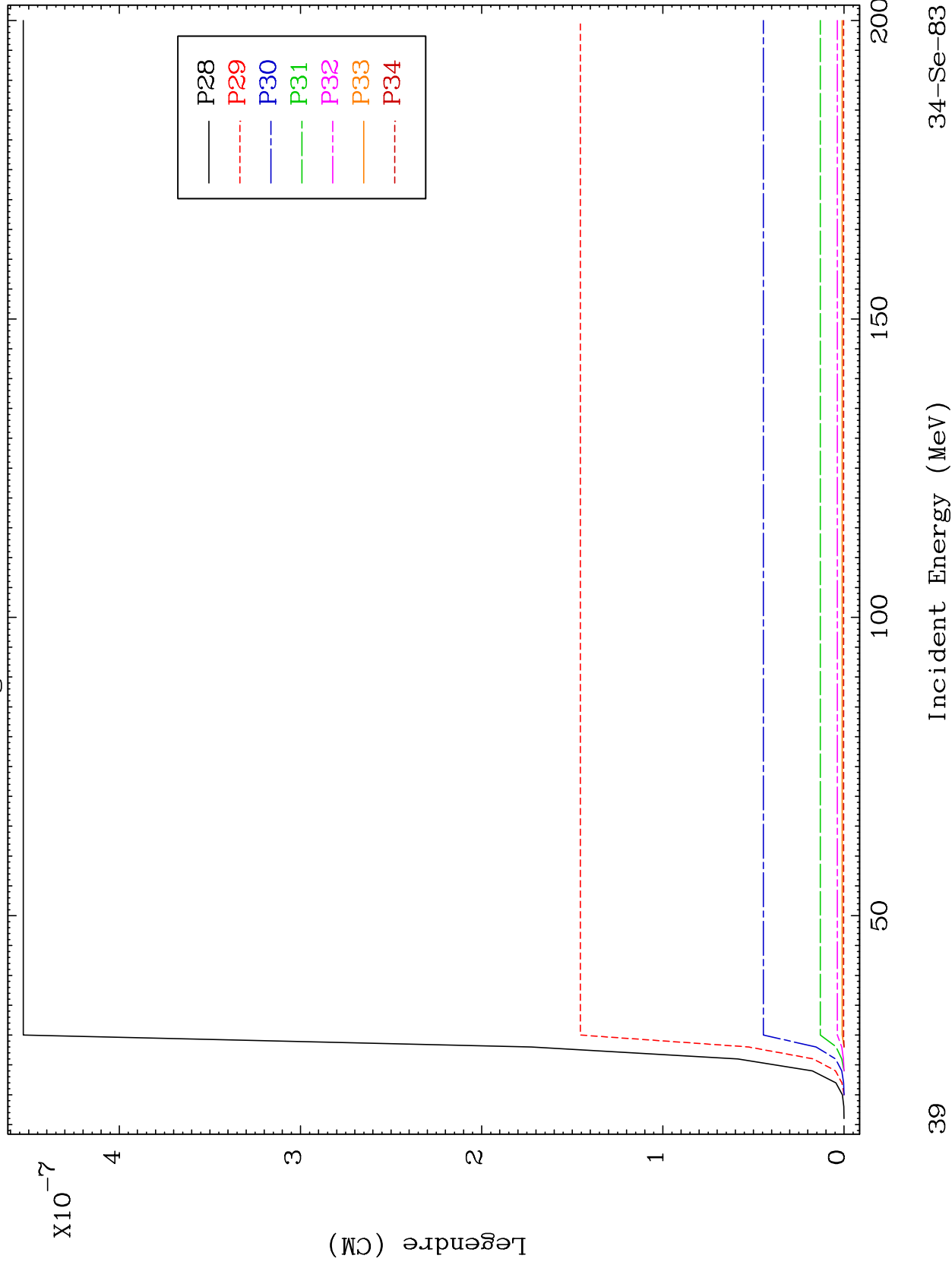
Incident Energy (MeV)

<sup>34</sup>Se-83

MAT 3452

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

34-Se-83

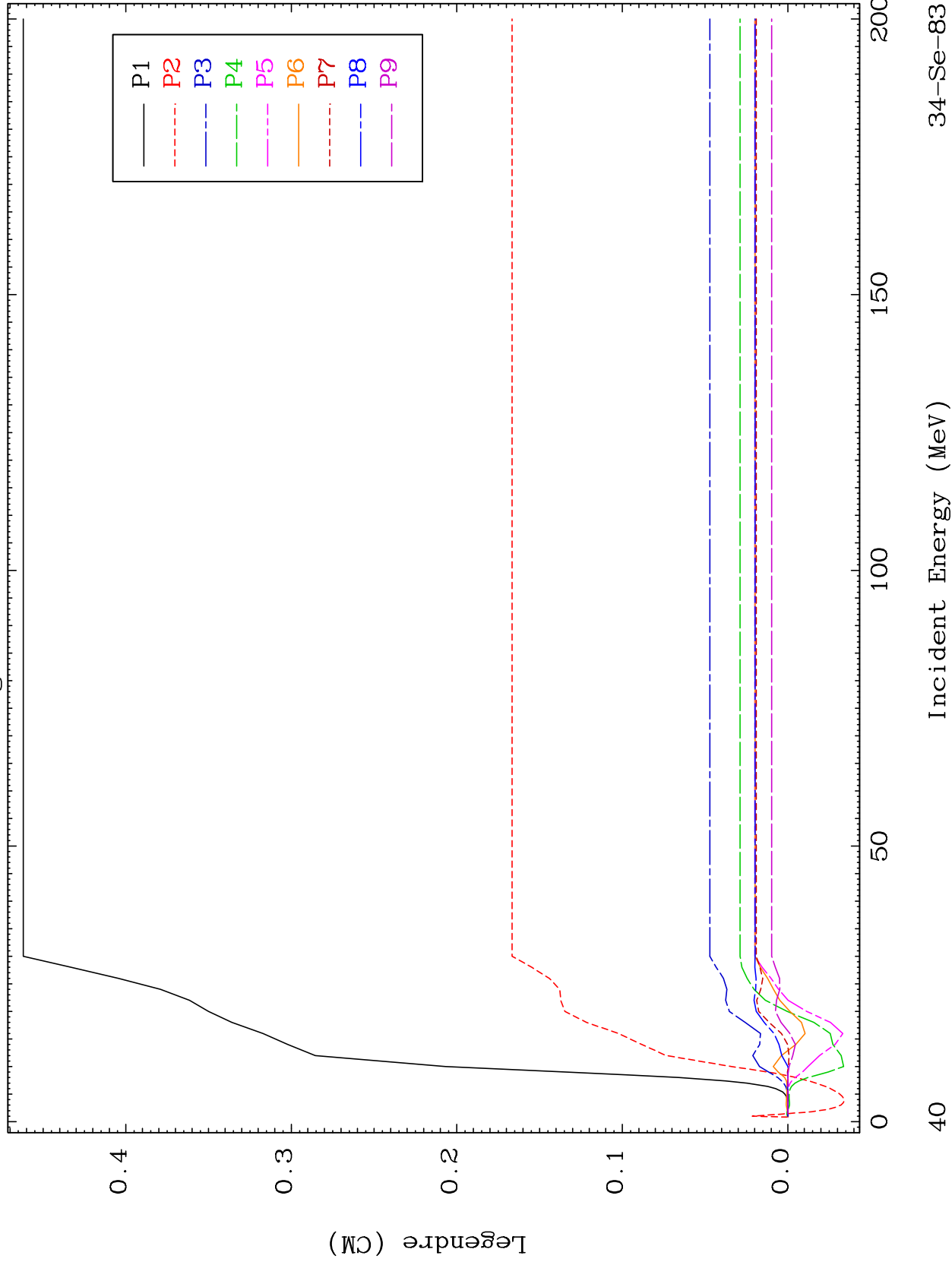




MAT 3452

MT= 56 (n,n') Level  
Legendre Coefficients

<sup>34</sup>Se-83



<sup>34</sup>Se-83

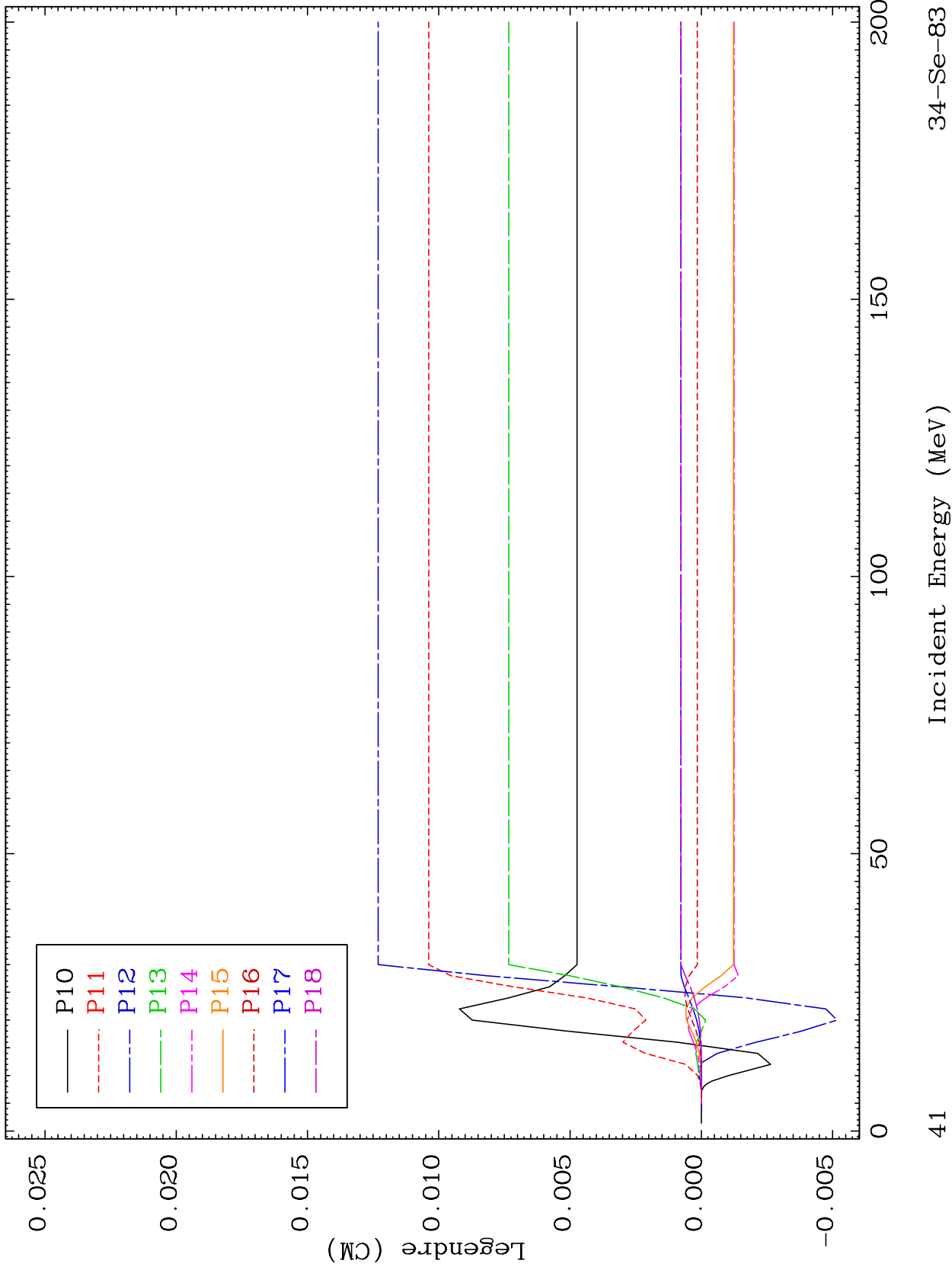
Incident Energy (MeV)

40

MAT 3452

MT= 56 (n,n') Level  
Legendre Coefficients

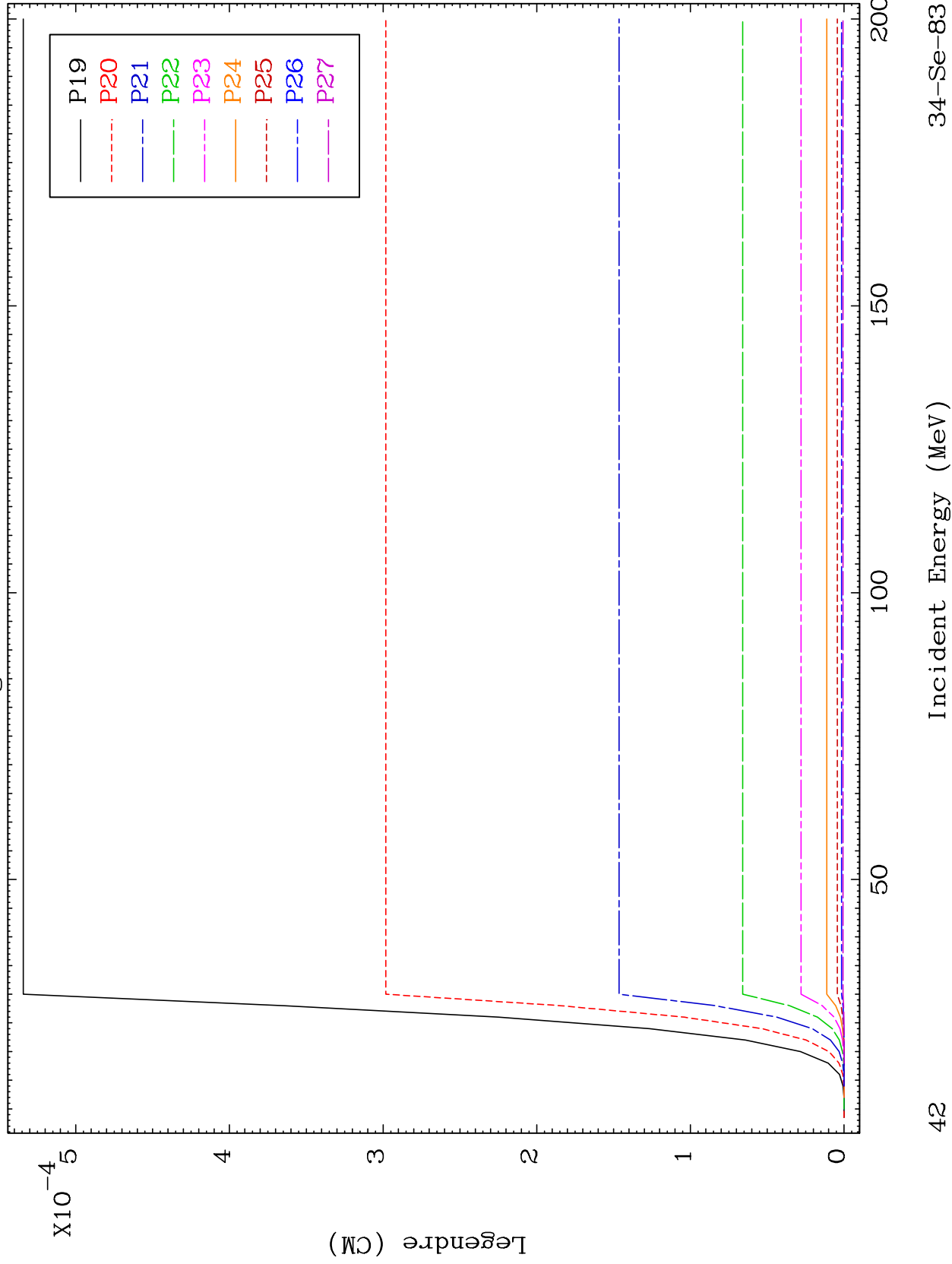
34-Se-83



MAT 3452

MT= 56 (n,n') Level  
Legendre Coefficients

<sup>34</sup>Se-83



42

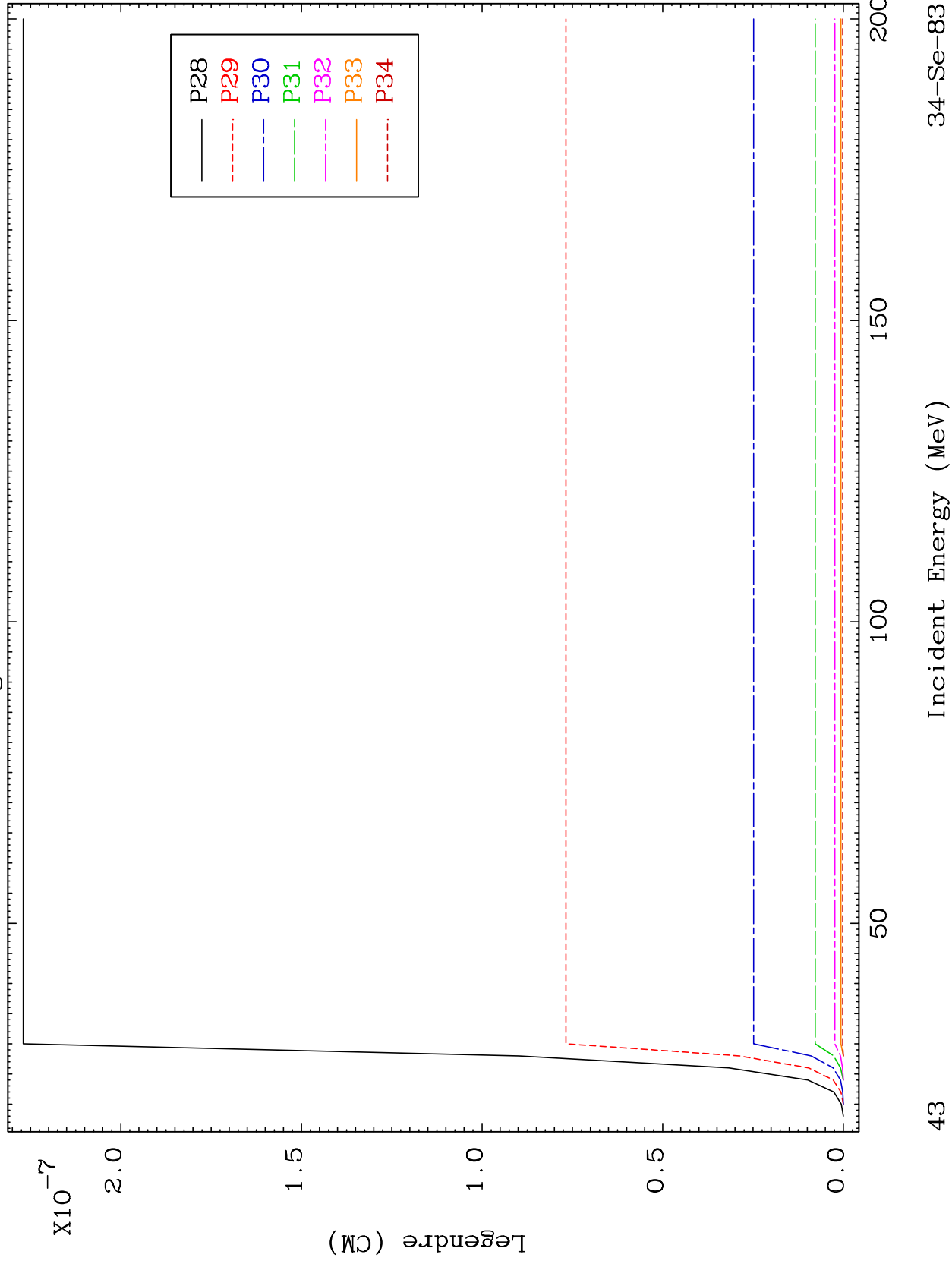
Incident Energy (MeV)

<sup>34</sup>Se-83

MAT 3452

MT= 56 (n,n') Level  
Legendre Coefficients

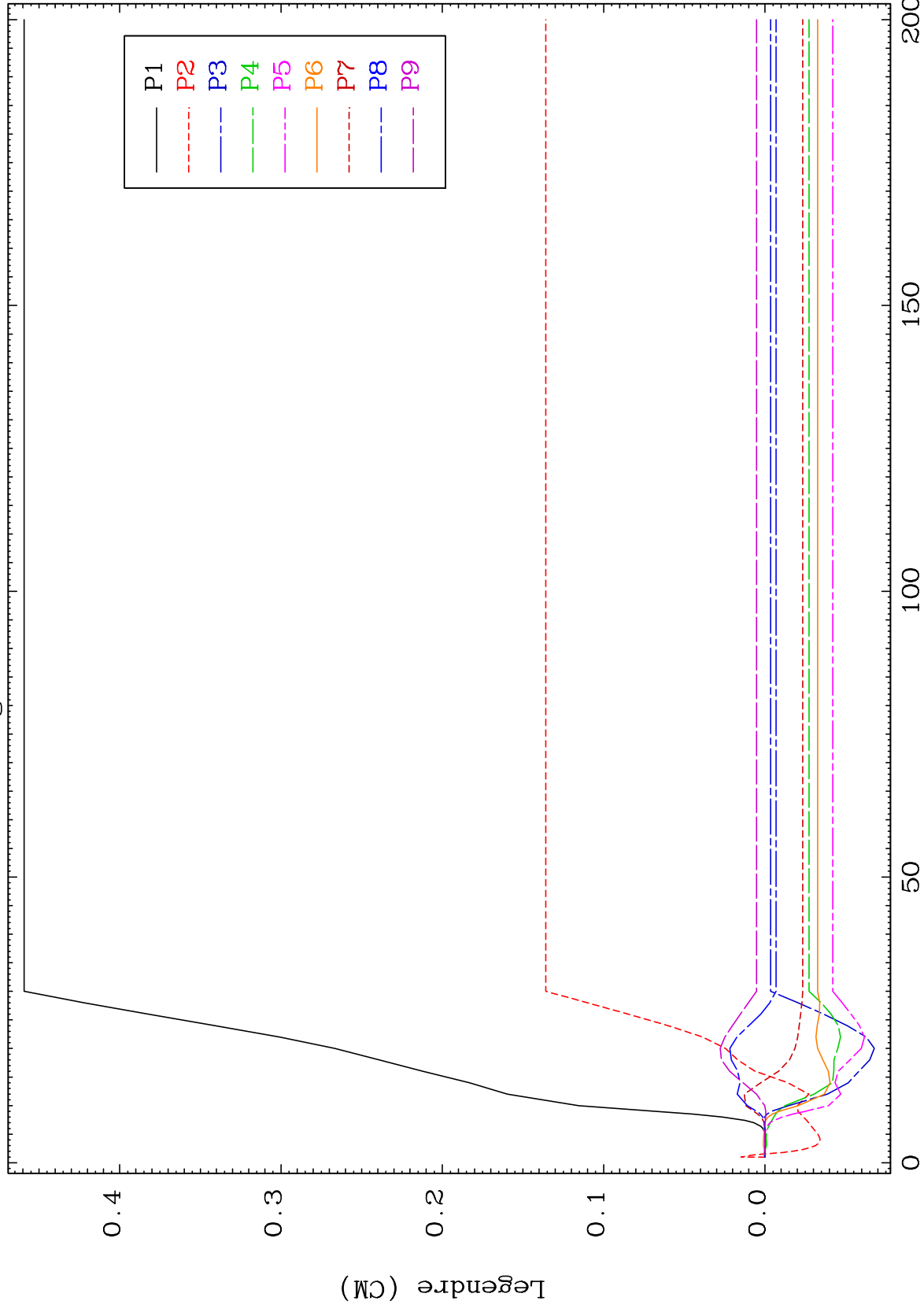
34-Se-83



MAT 3452

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

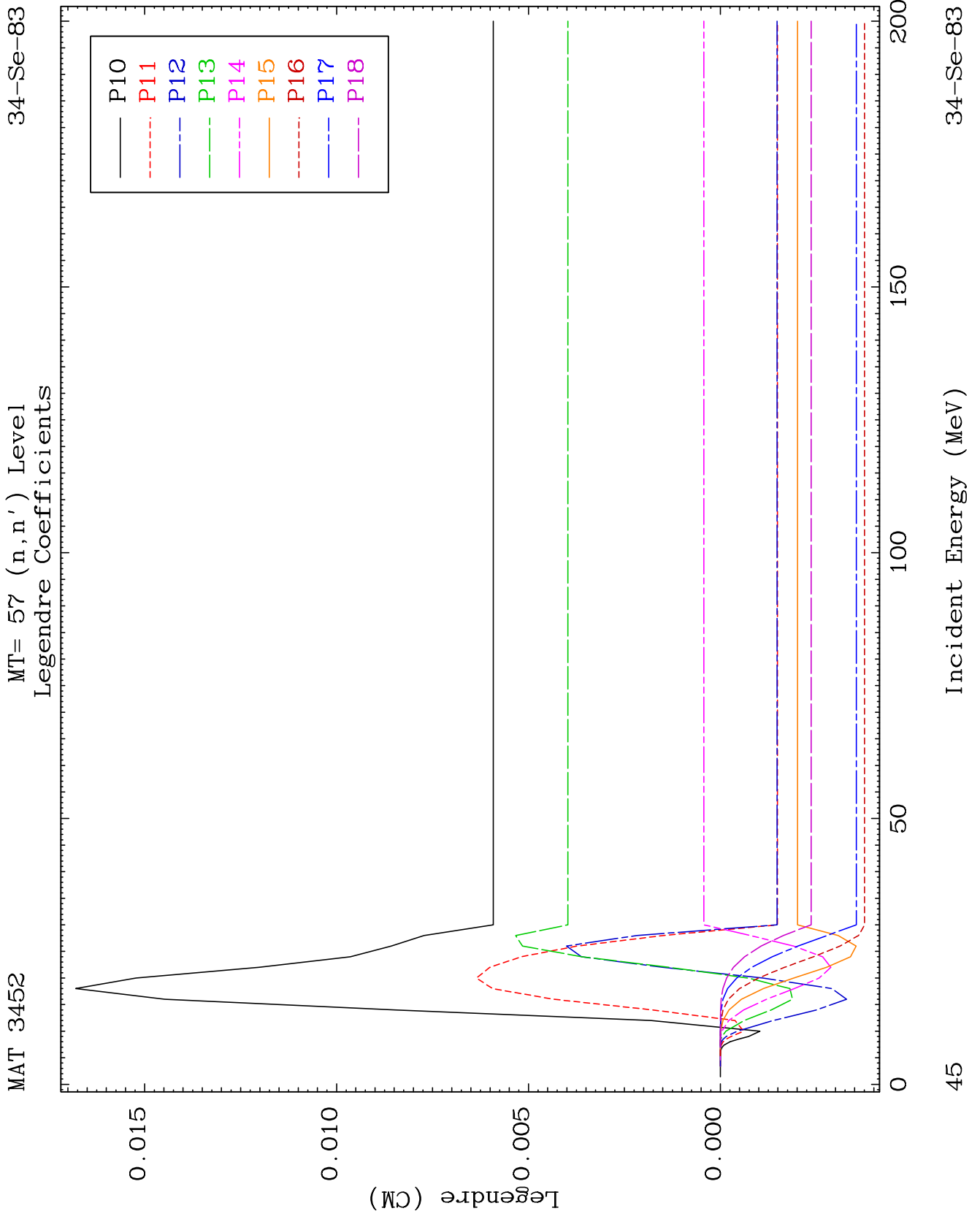
<sup>34</sup>Se-83



44

Incident Energy (MeV)

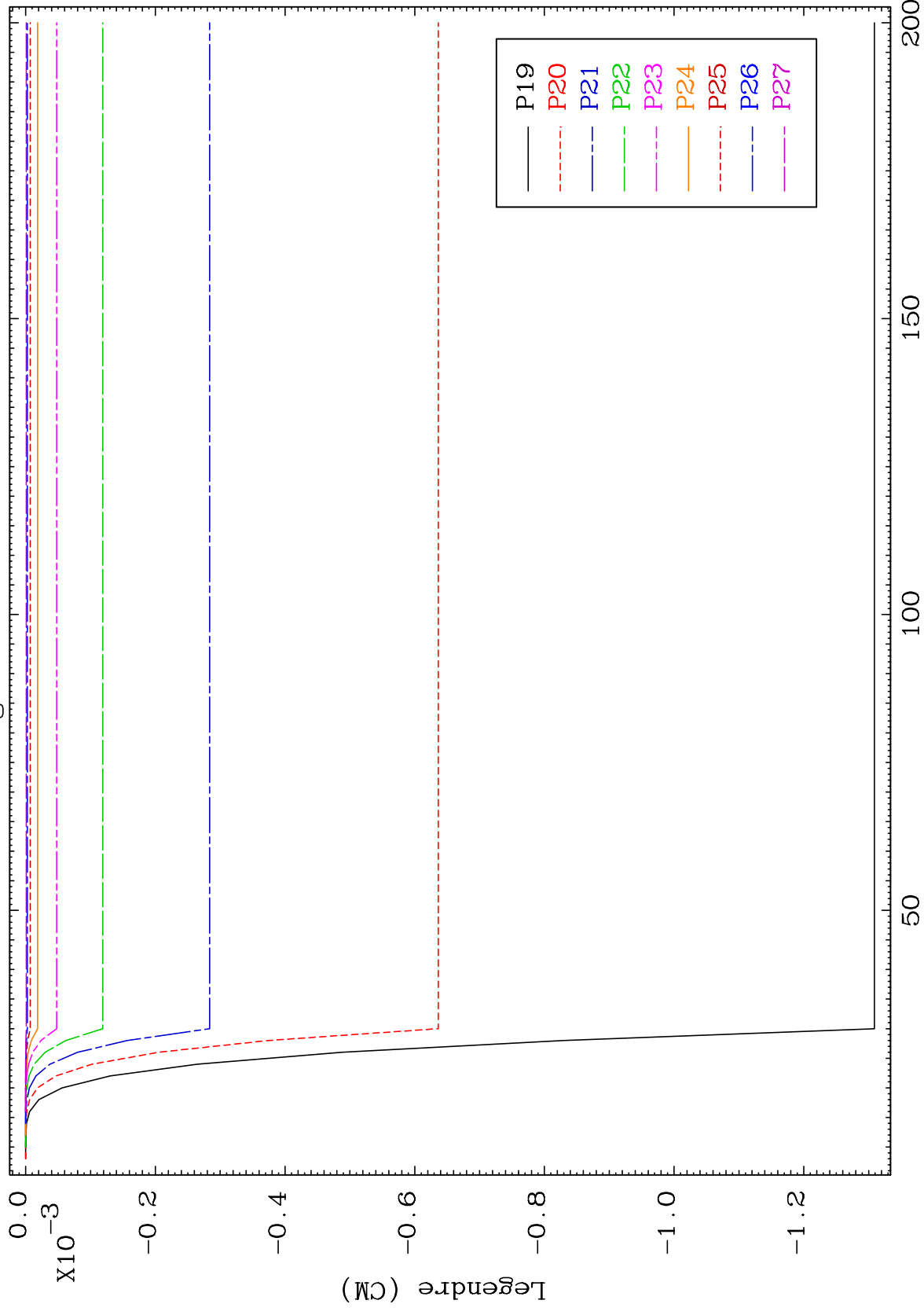
<sup>34</sup>Se-83



MAT 3452

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

34-Se-83



46

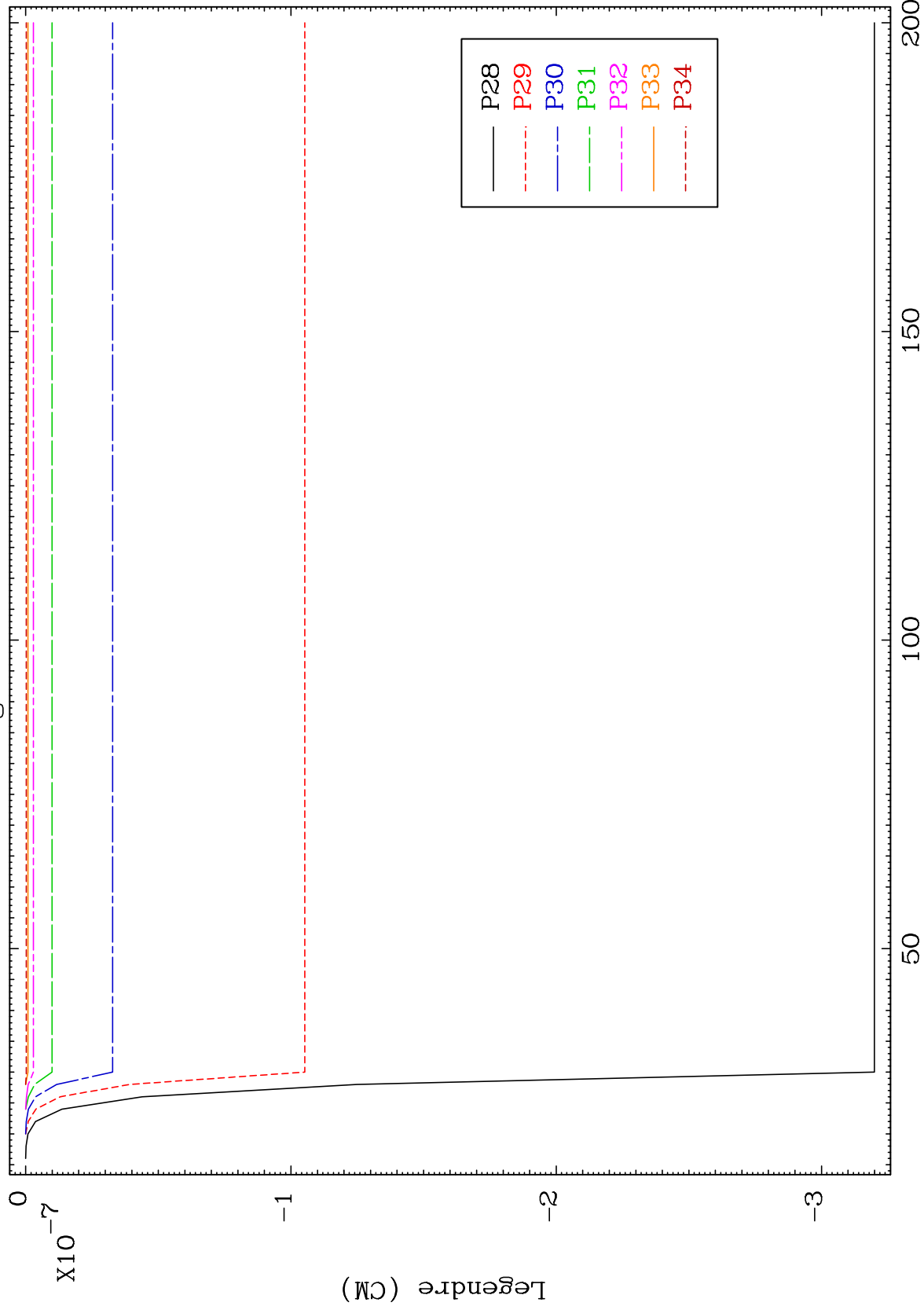
Incident Energy (MeV)

34-Se-83

MAT 3452

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

34-Se-83



47

Incident Energy (MeV)

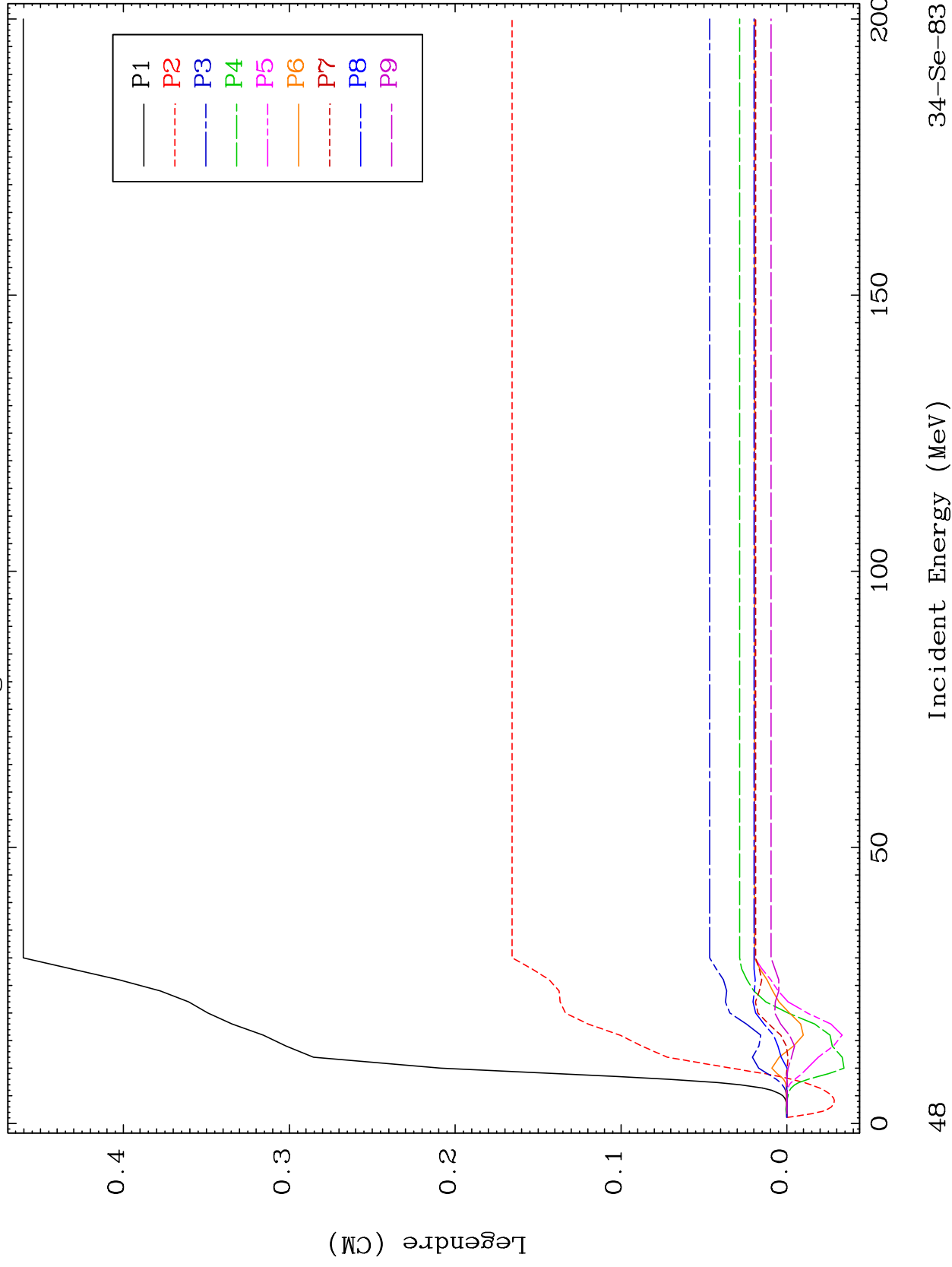
34-Se-83



MAT 3452

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

34-Se-83



34-Se-83

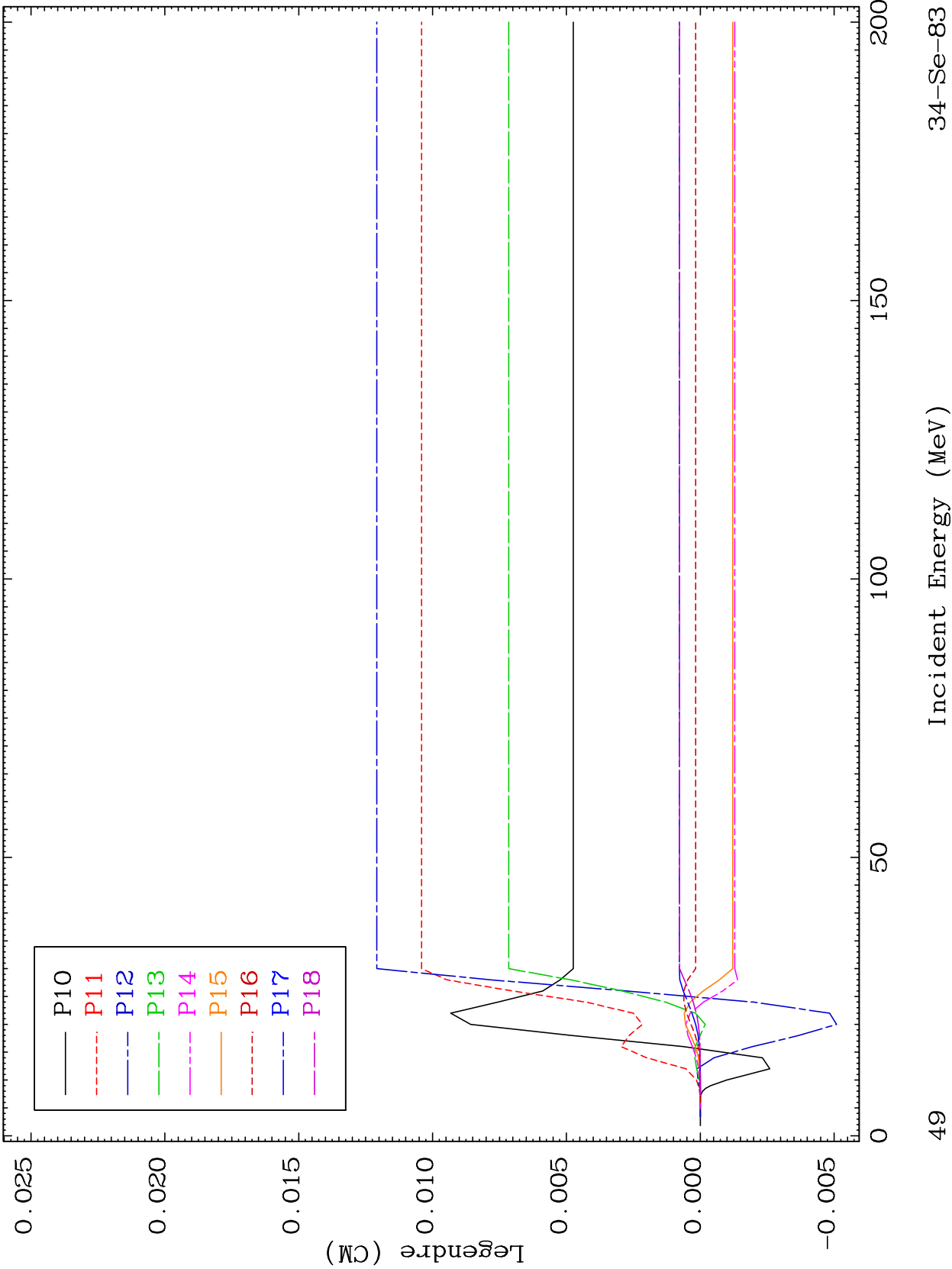
Incident Energy (MeV)

48

MAT 3452

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

34-Se-83



49

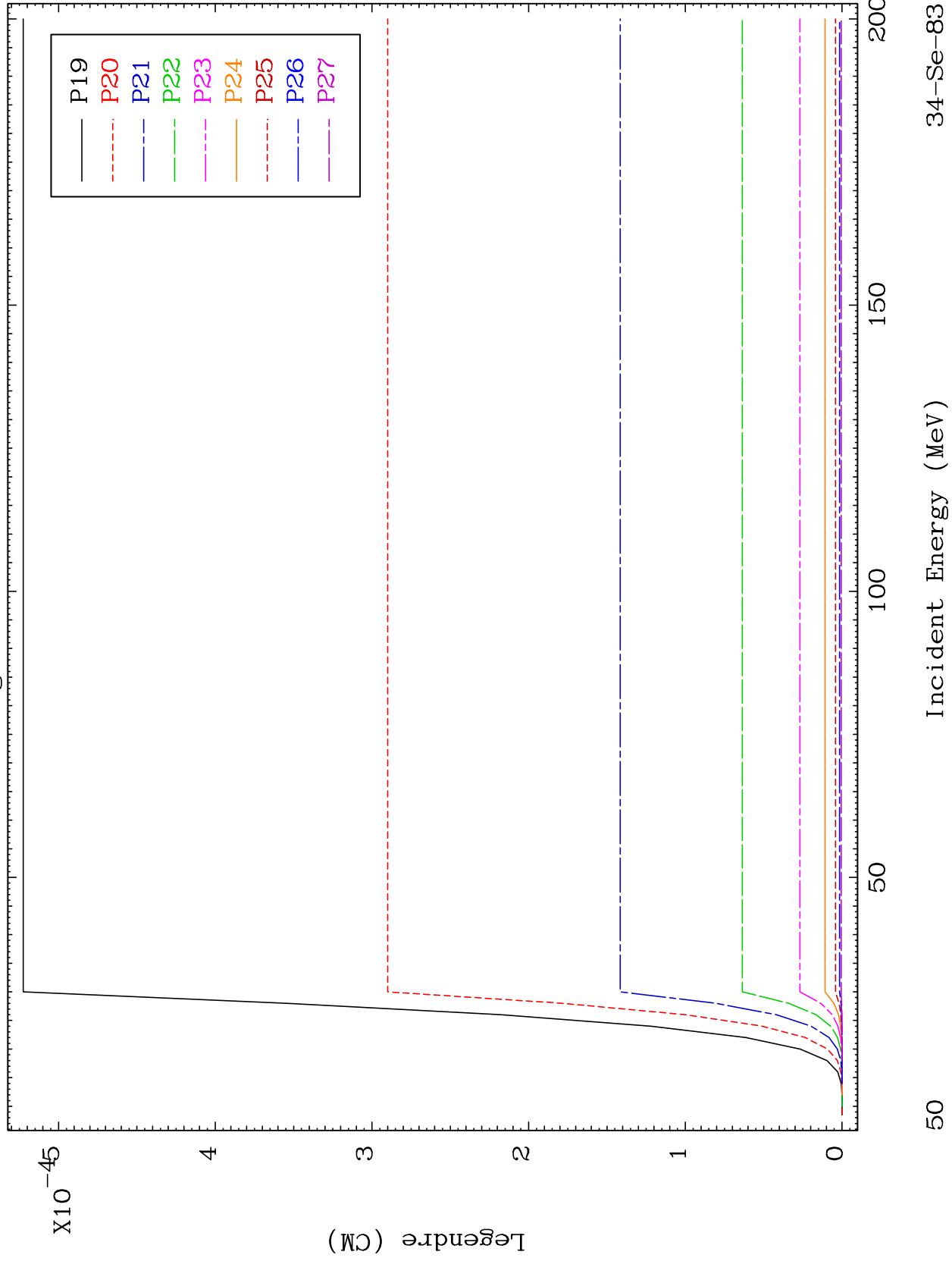
Incident Energy (MeV)

34-Se-83

MAT 3452

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

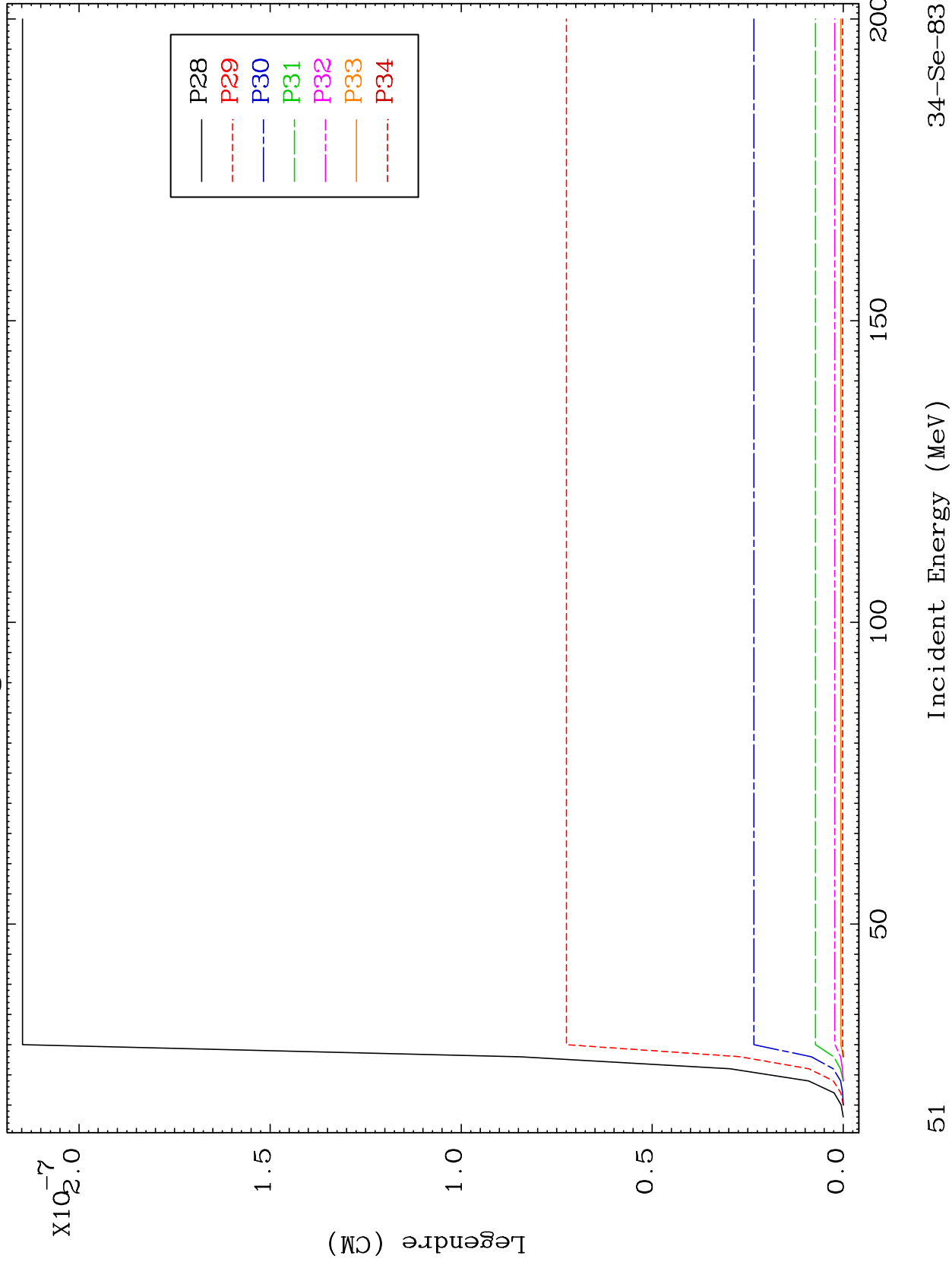
<sup>34</sup>Se-83



MAT 3452

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

34-Se-83



51

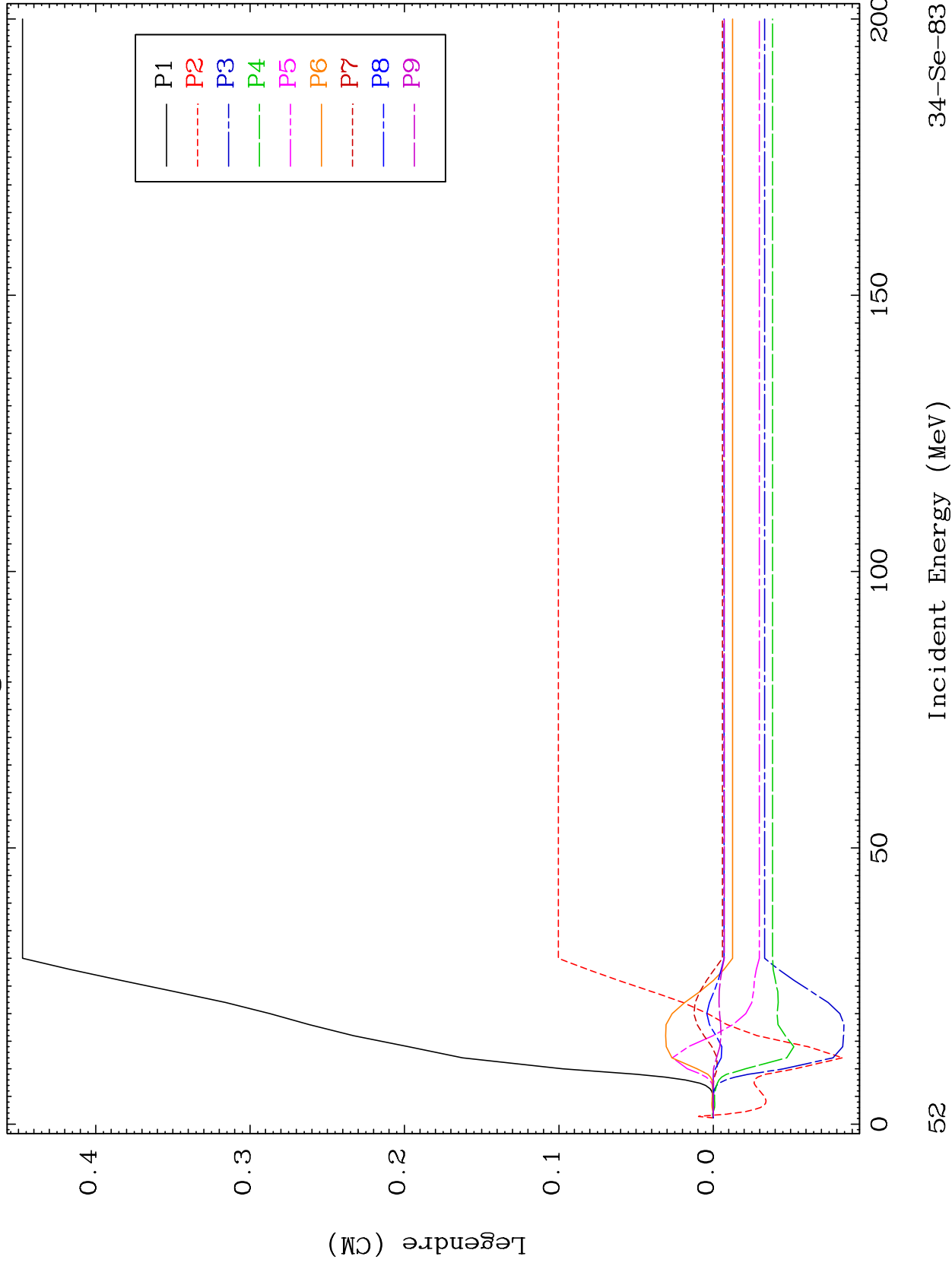
Incident Energy (MeV)

34-Se-83

MAT 3452

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

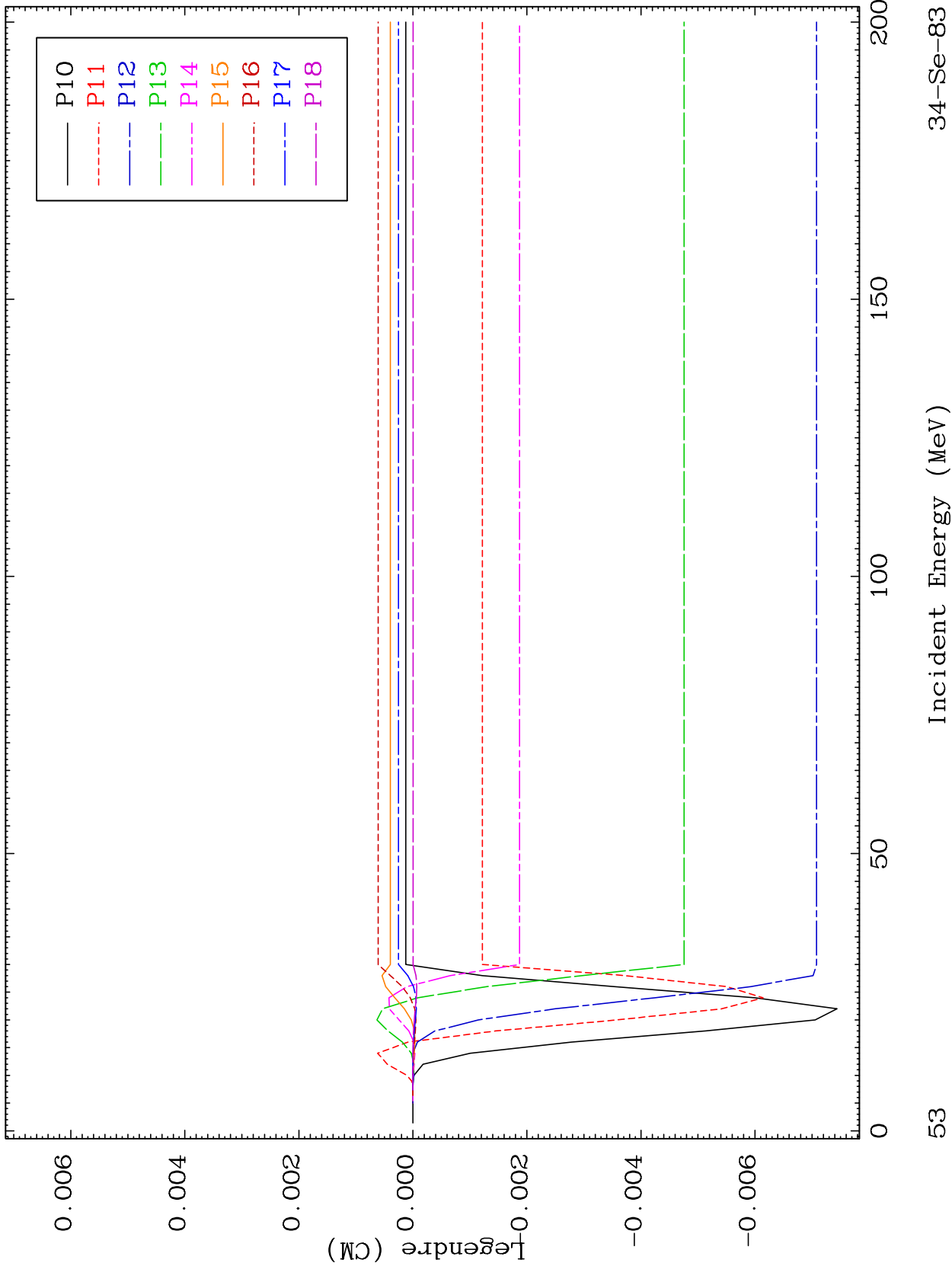
34-Se-83



34-Se-83

Incident Energy (MeV)

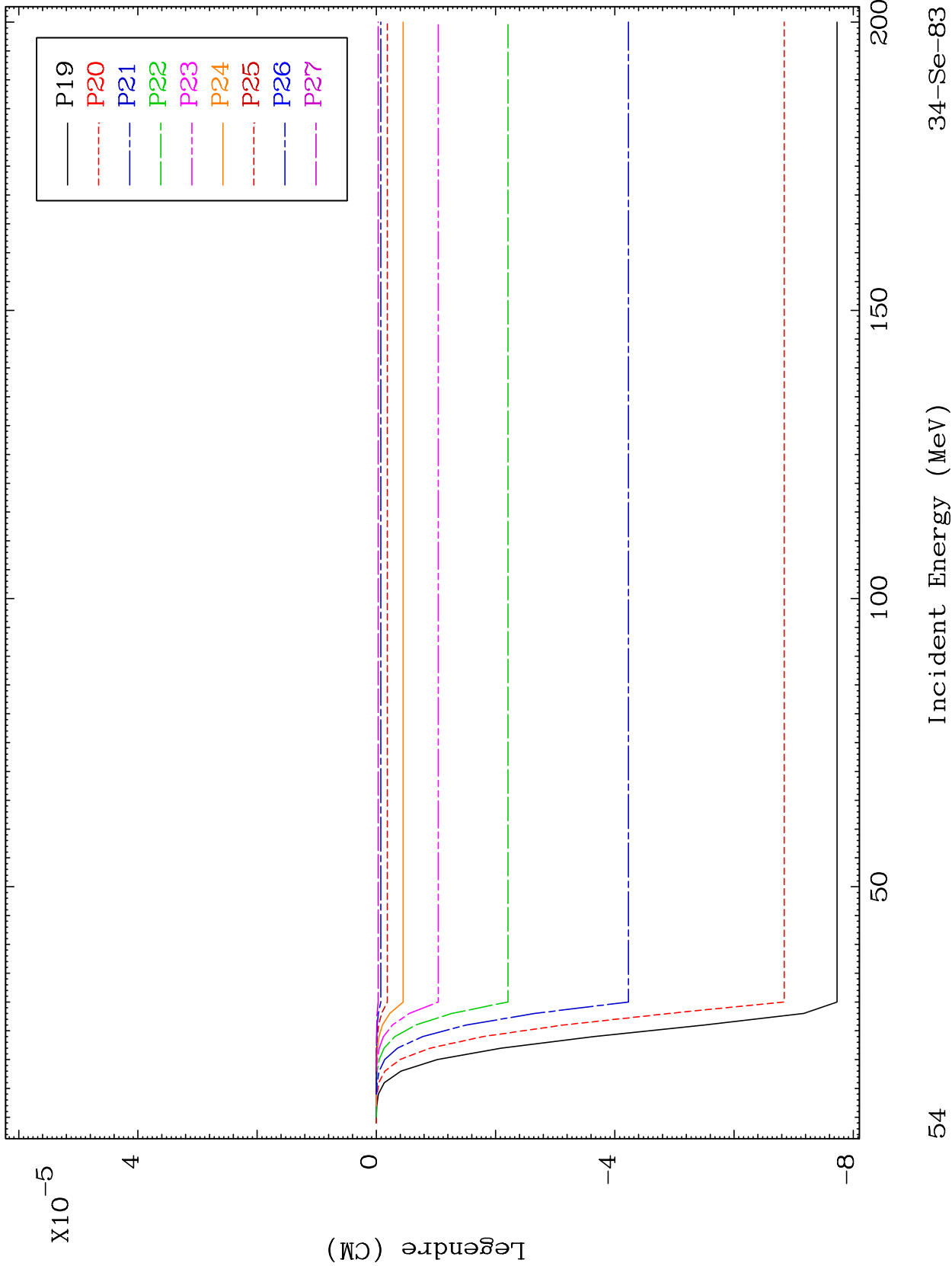
52



MAT 3452

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

<sup>34</sup>Se-83



54

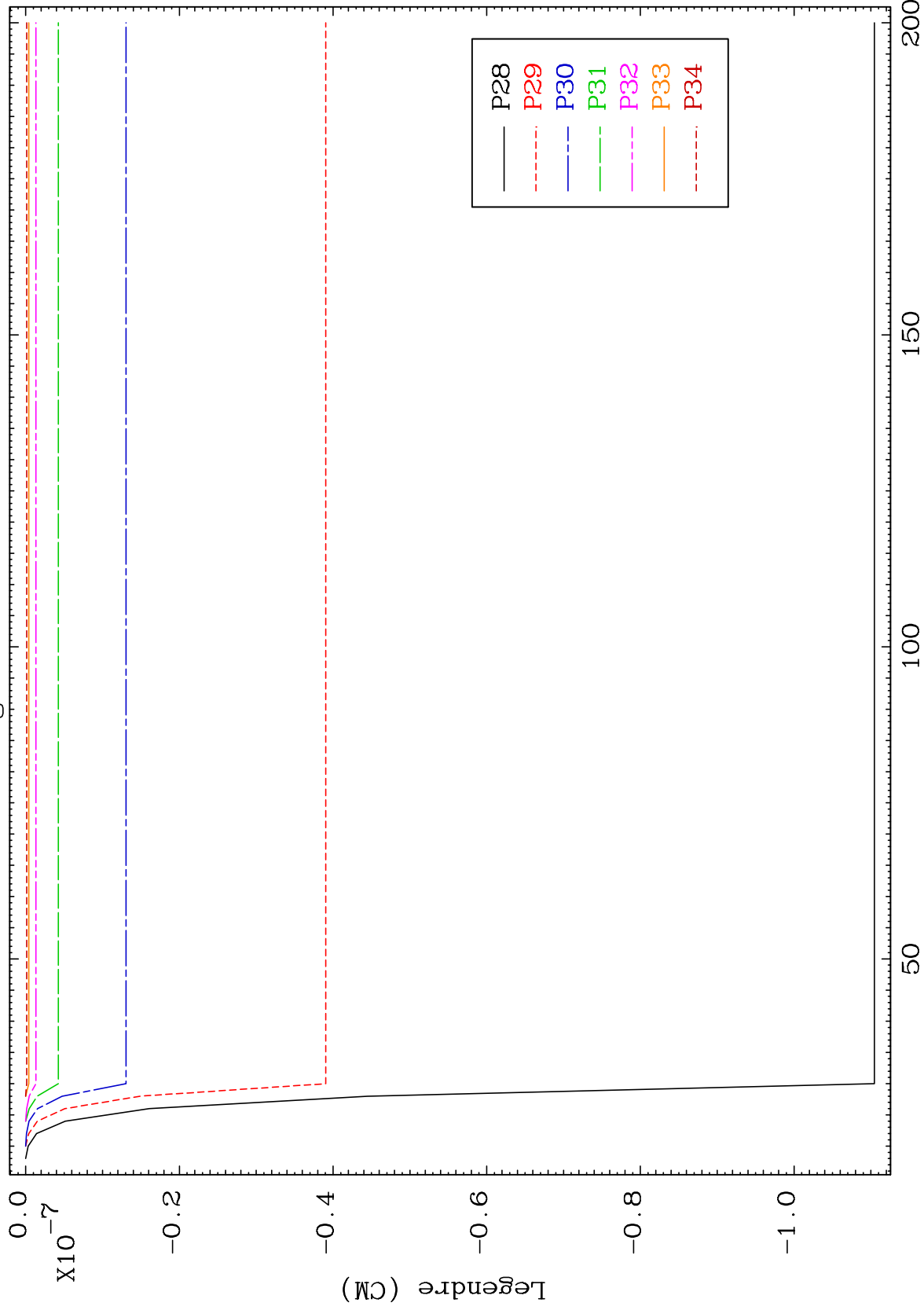
Incident Energy (MeV)

<sup>34</sup>Se-83

MAT 3452

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

34-Se-83



55

Incident Energy (MeV)

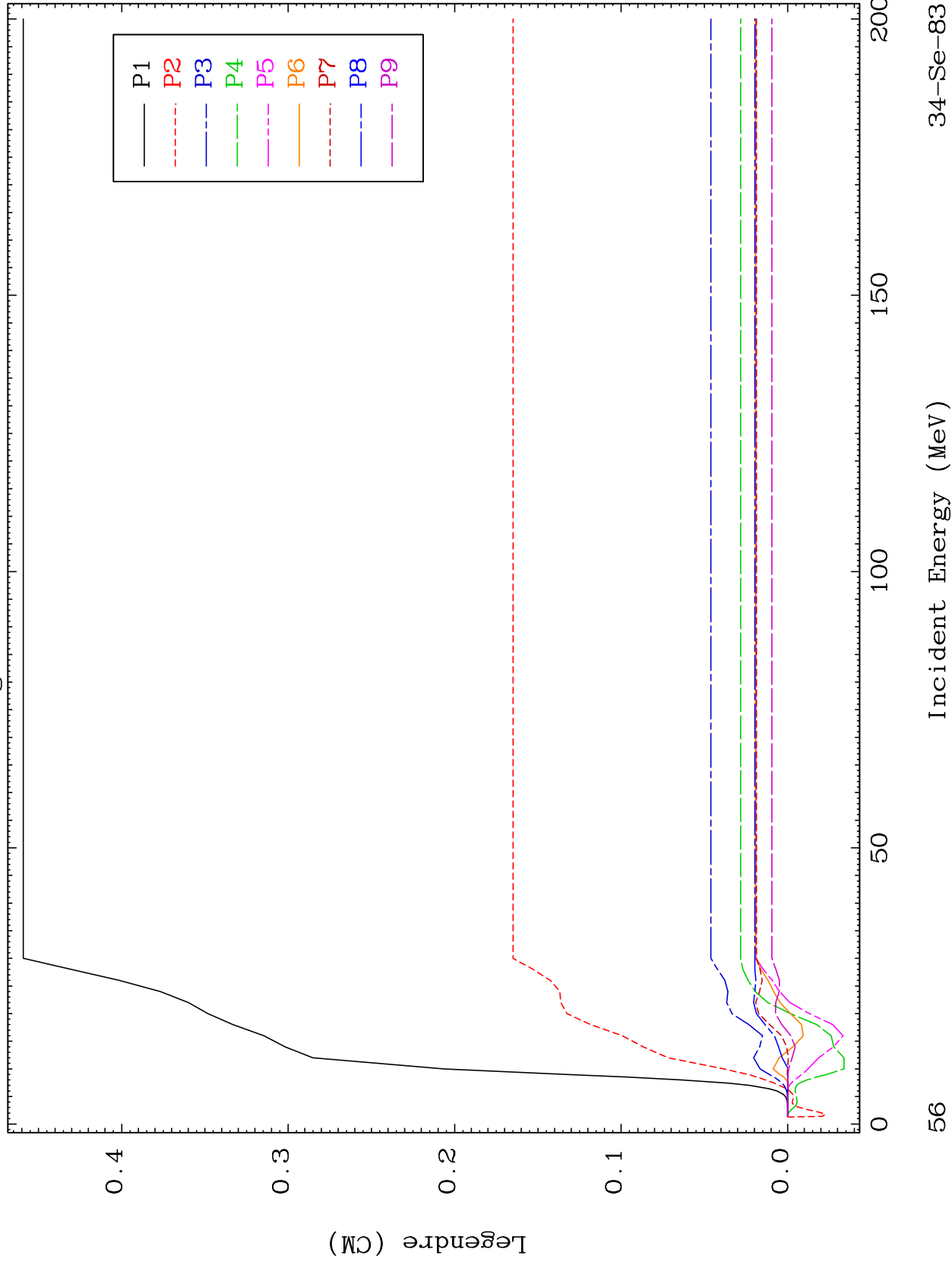
34-Se-83



MAT 3452

MT= 60 (n,n') Level  
Legendre Coefficients

34-Se-83



34-Se-83

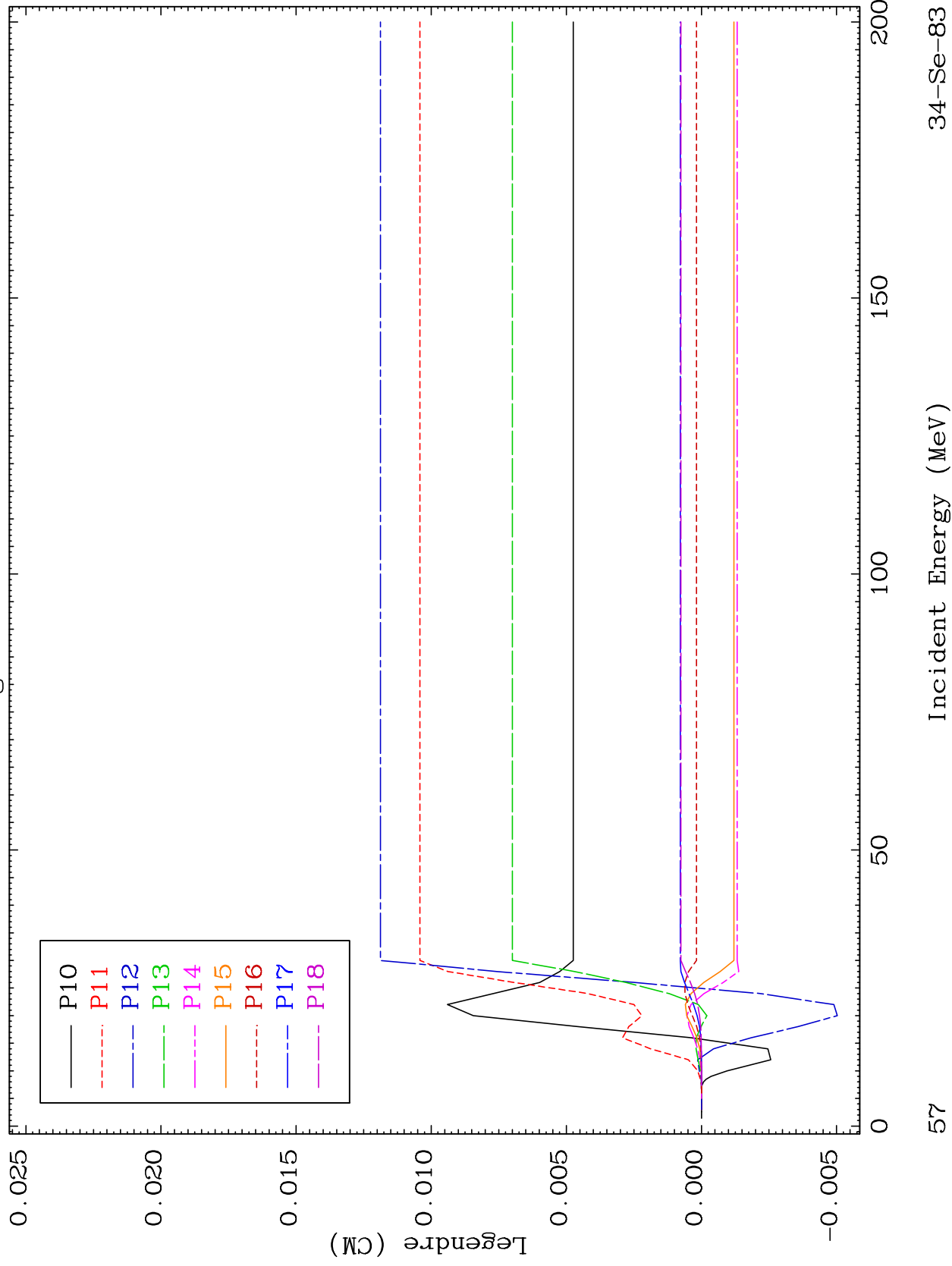
Incident Energy (MeV)

56

MAT 3452

MT= 60 (n,n') Level  
Legendre Coefficients

34-Se-83



57

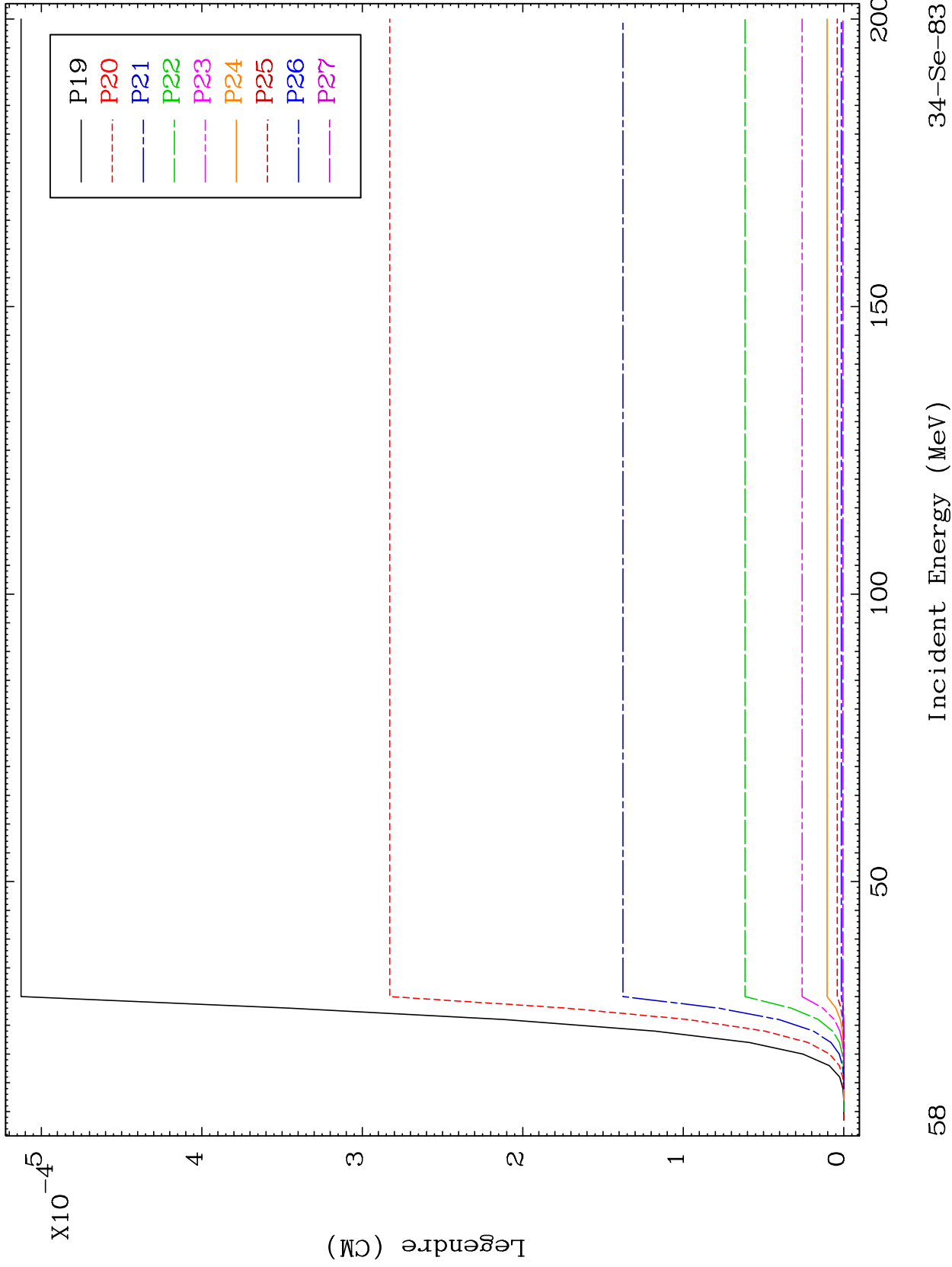
Incident Energy (MeV)

34-Se-83

MAT 3452

MT= 60 (n,n') Level  
Legendre Coefficients

34-Se-83



58

Incident Energy (MeV)

34-Se-83

200

150

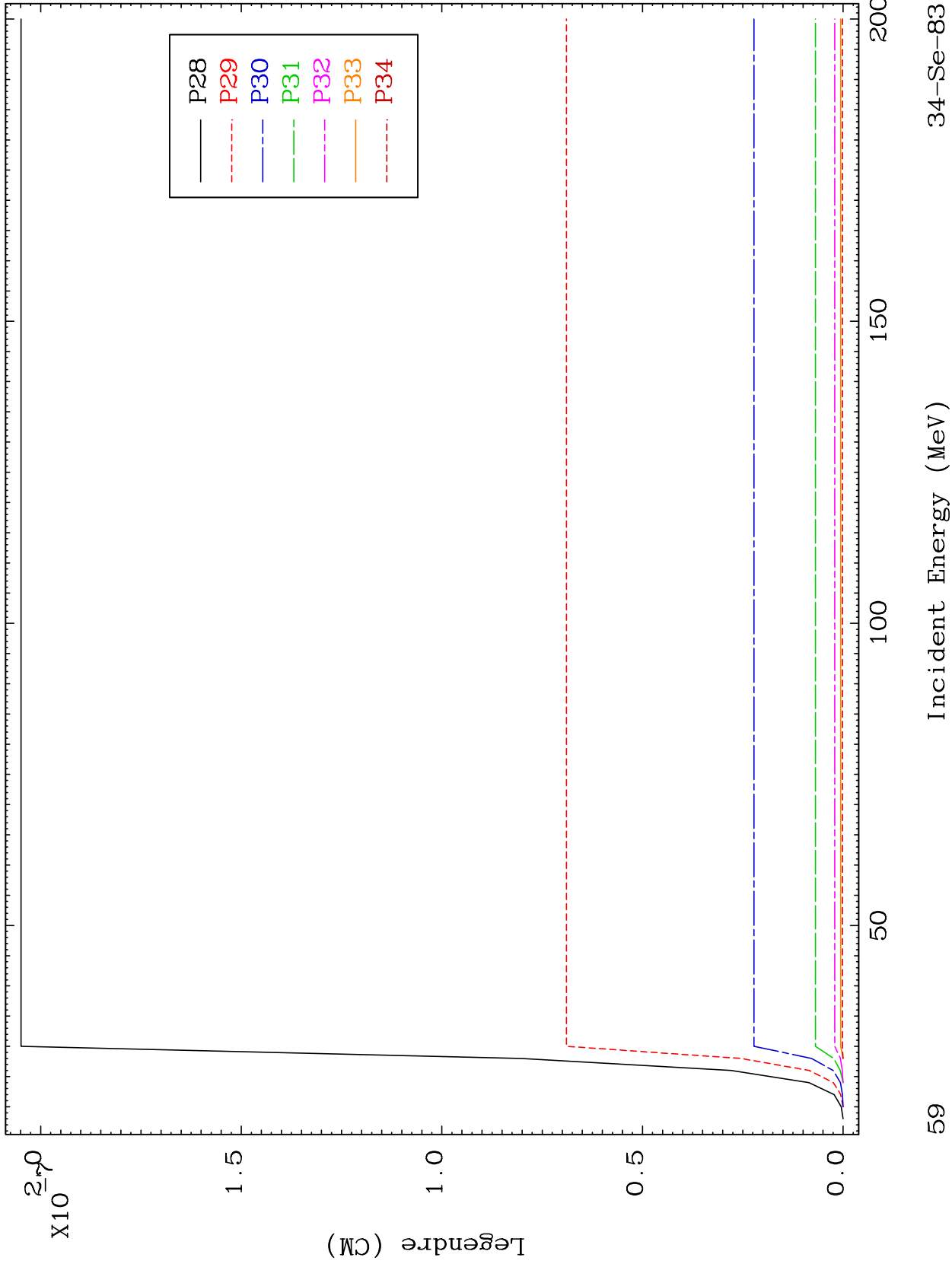
100

50

MAT 3452

MT= 60 (n,n') Level  
Legendre Coefficients

34-Se-83



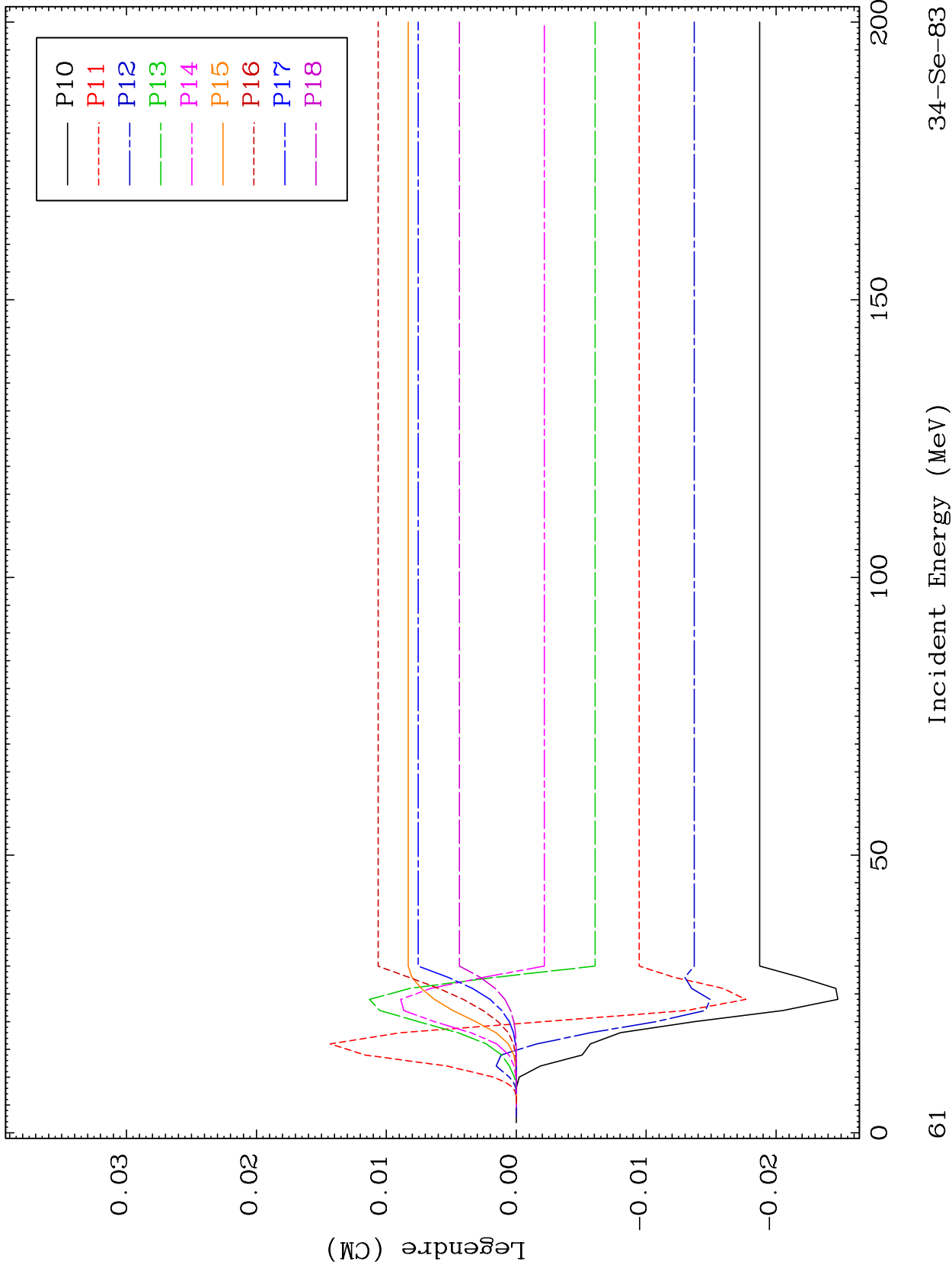
59



MAT 3452

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

34-Se-83



61

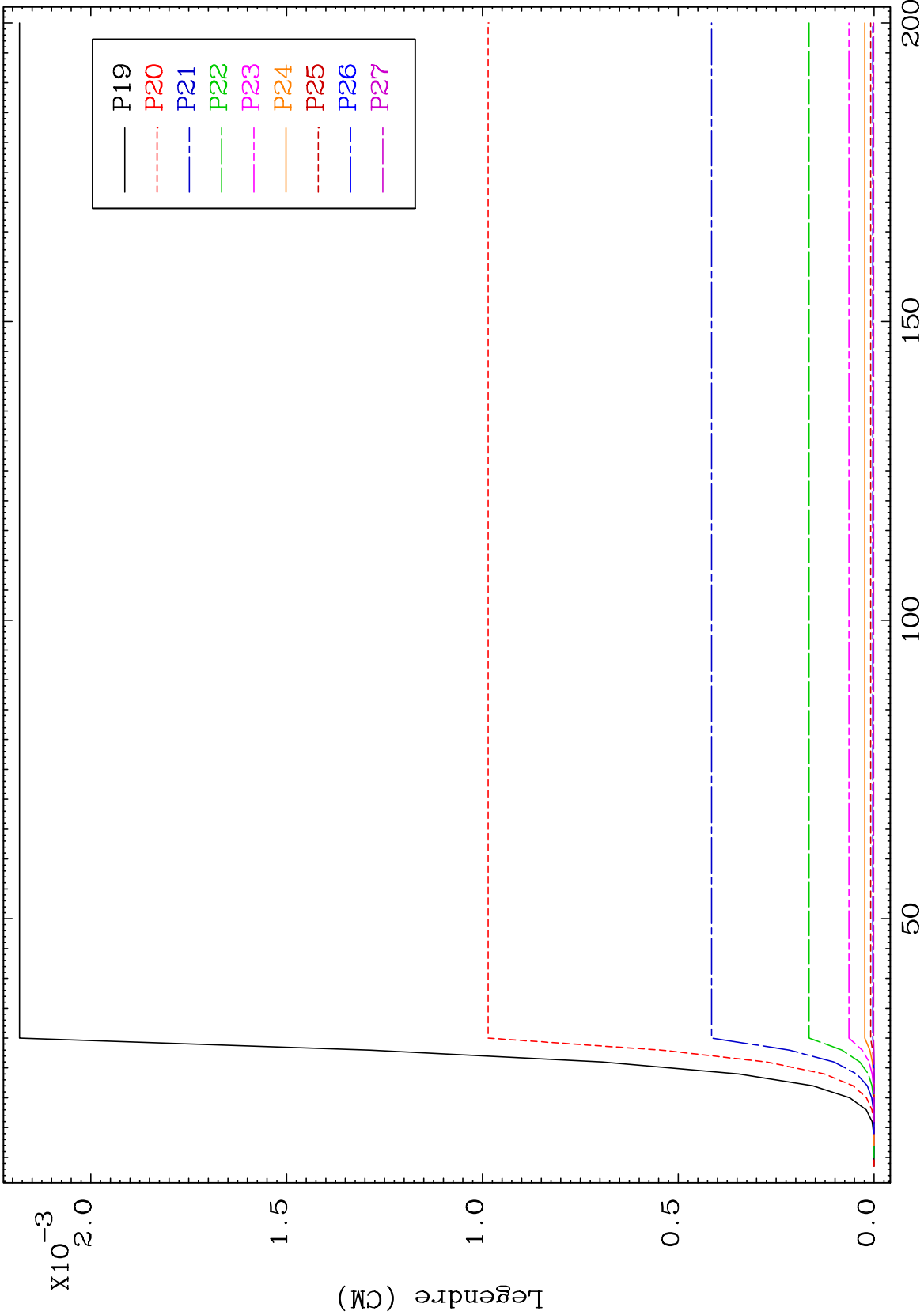
Incident Energy (MeV)

34-Se-83

MAT 3452

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

<sup>34</sup>Se-83



62

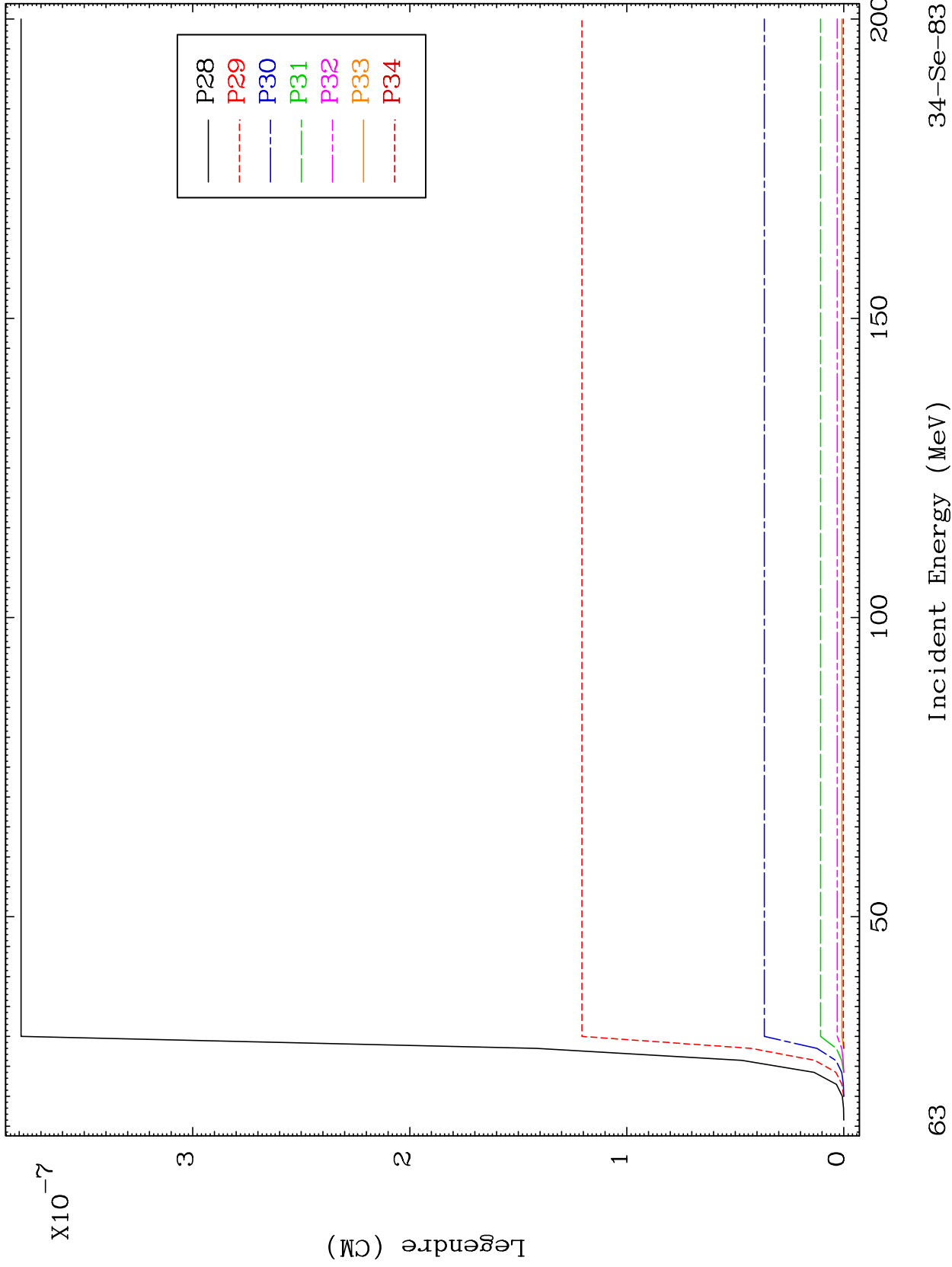
Incident Energy (MeV)

<sup>34</sup>Se-83

MAT 3452

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

<sup>34</sup>Se-83

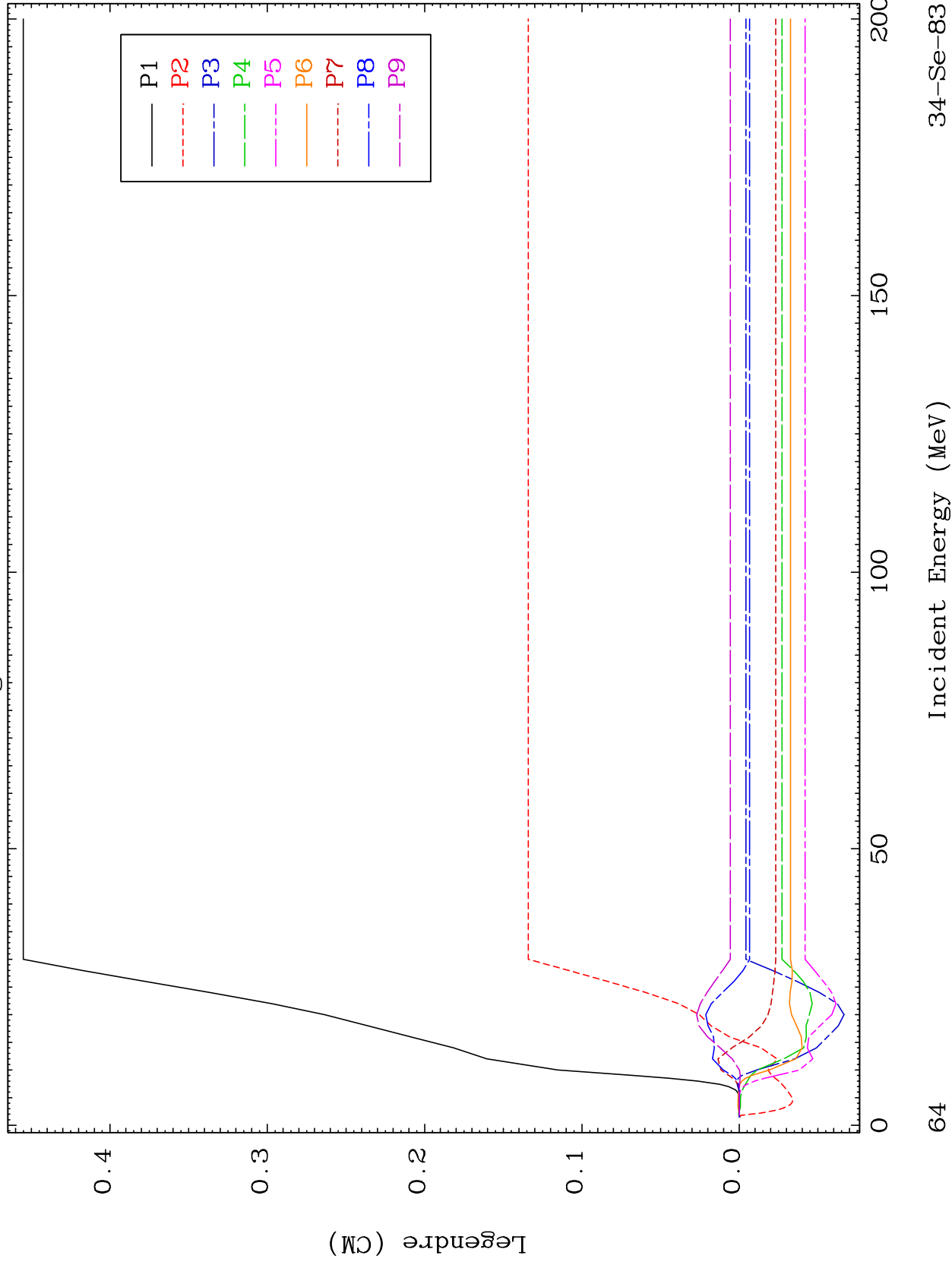




MAT 3452

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

<sup>34</sup>Se-83



<sup>34</sup>Se-83

Incident Energy (MeV)

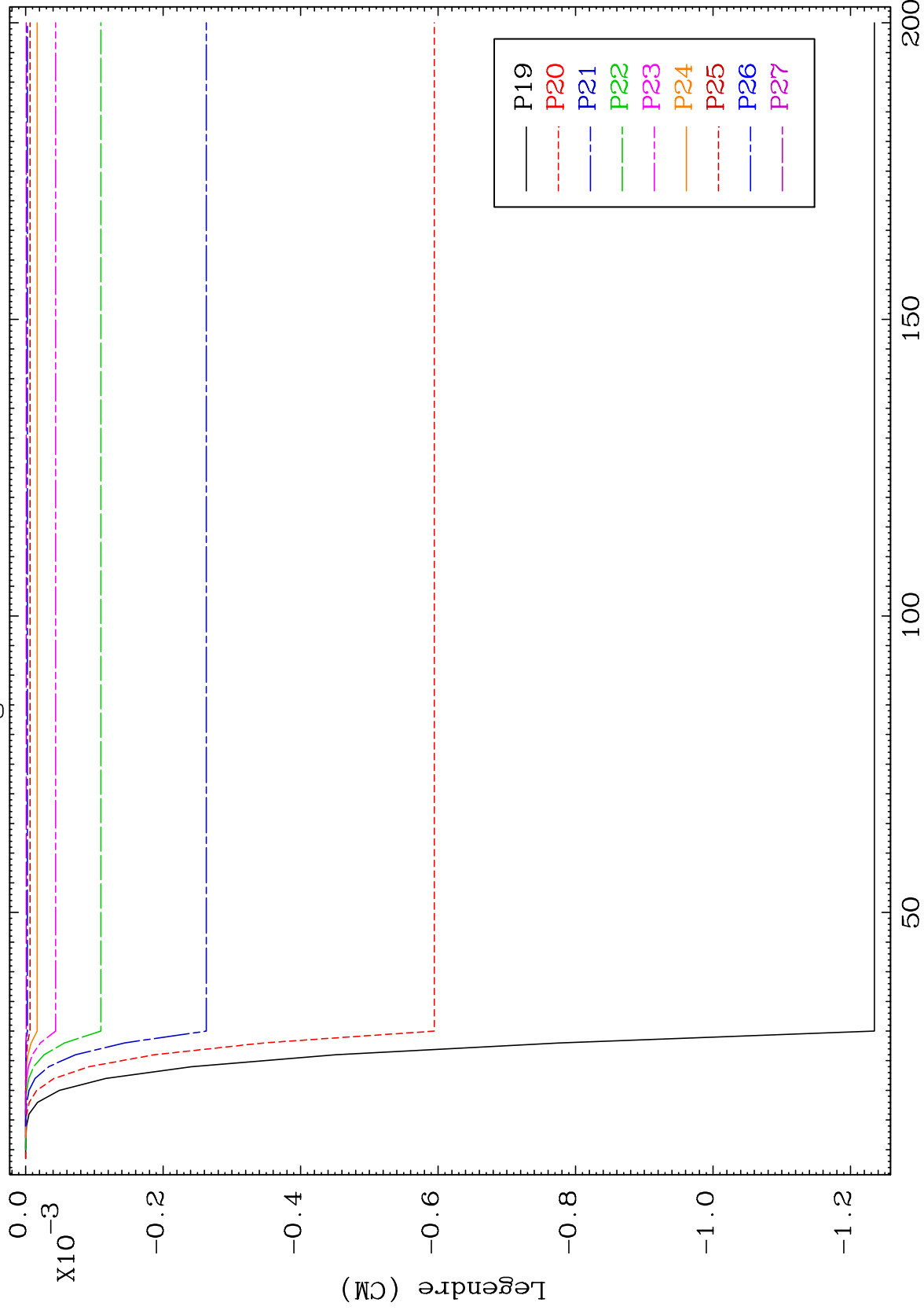
64



MAT 3452

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

34-Se-83



66

Incident Energy (MeV)

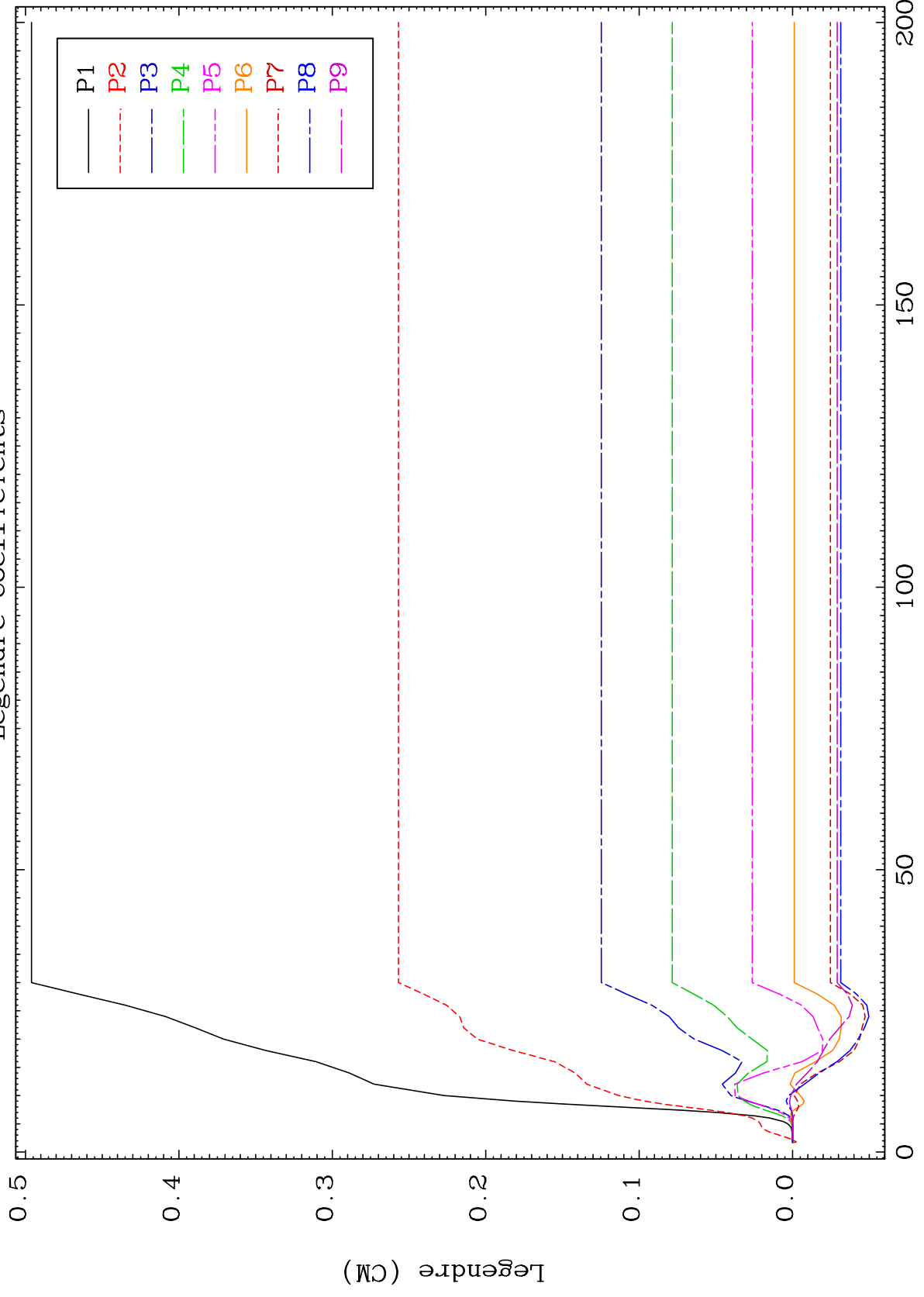
34-Se-83



MAT 3452

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

<sup>34</sup>Se-83



68

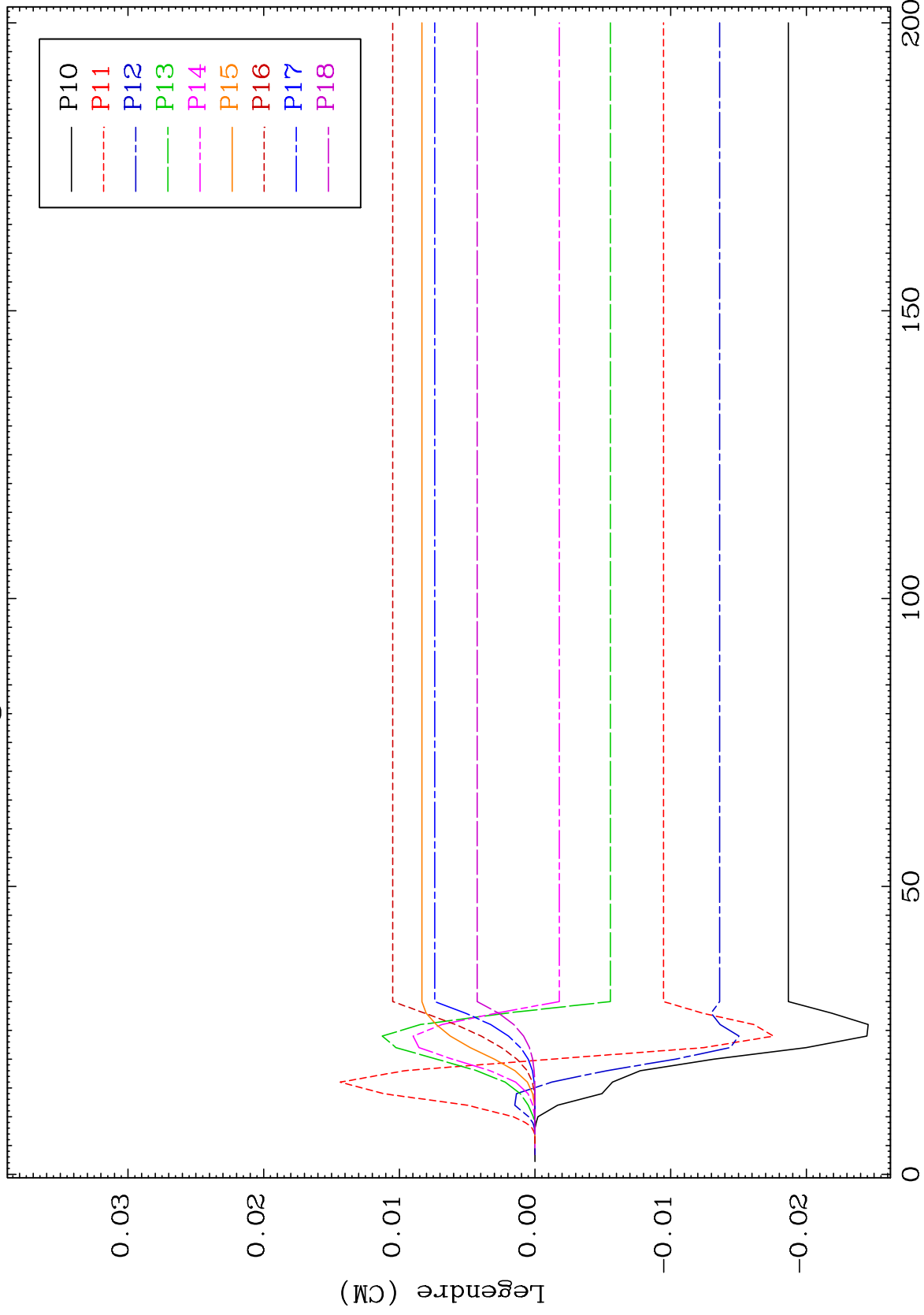
Incident Energy (MeV)

<sup>34</sup>Se-83

MAT 3452

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

34-Se-83



69

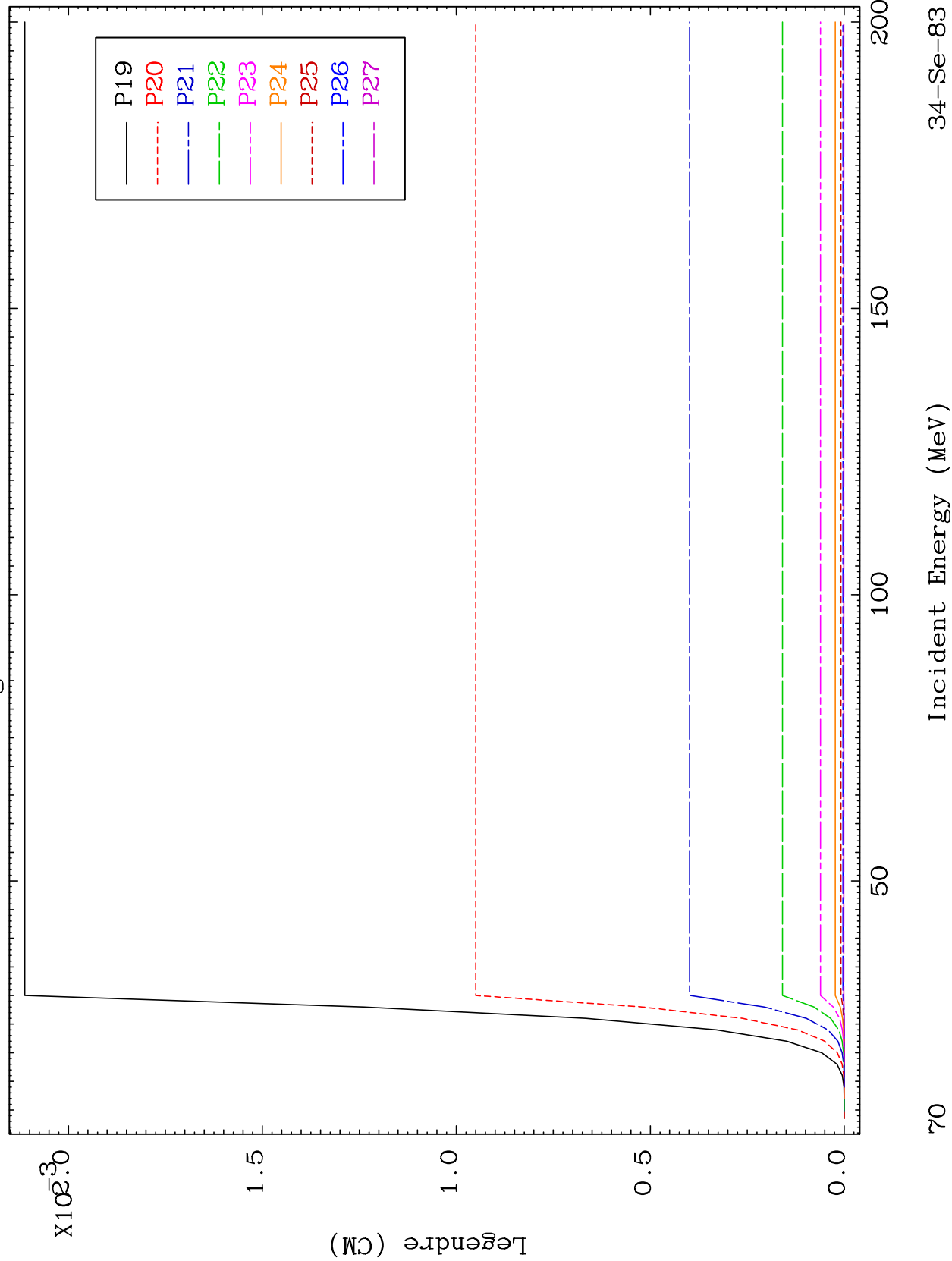
Incident Energy (MeV)

34-Se-83

MAT 3452

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

<sup>34</sup>Se-83



70

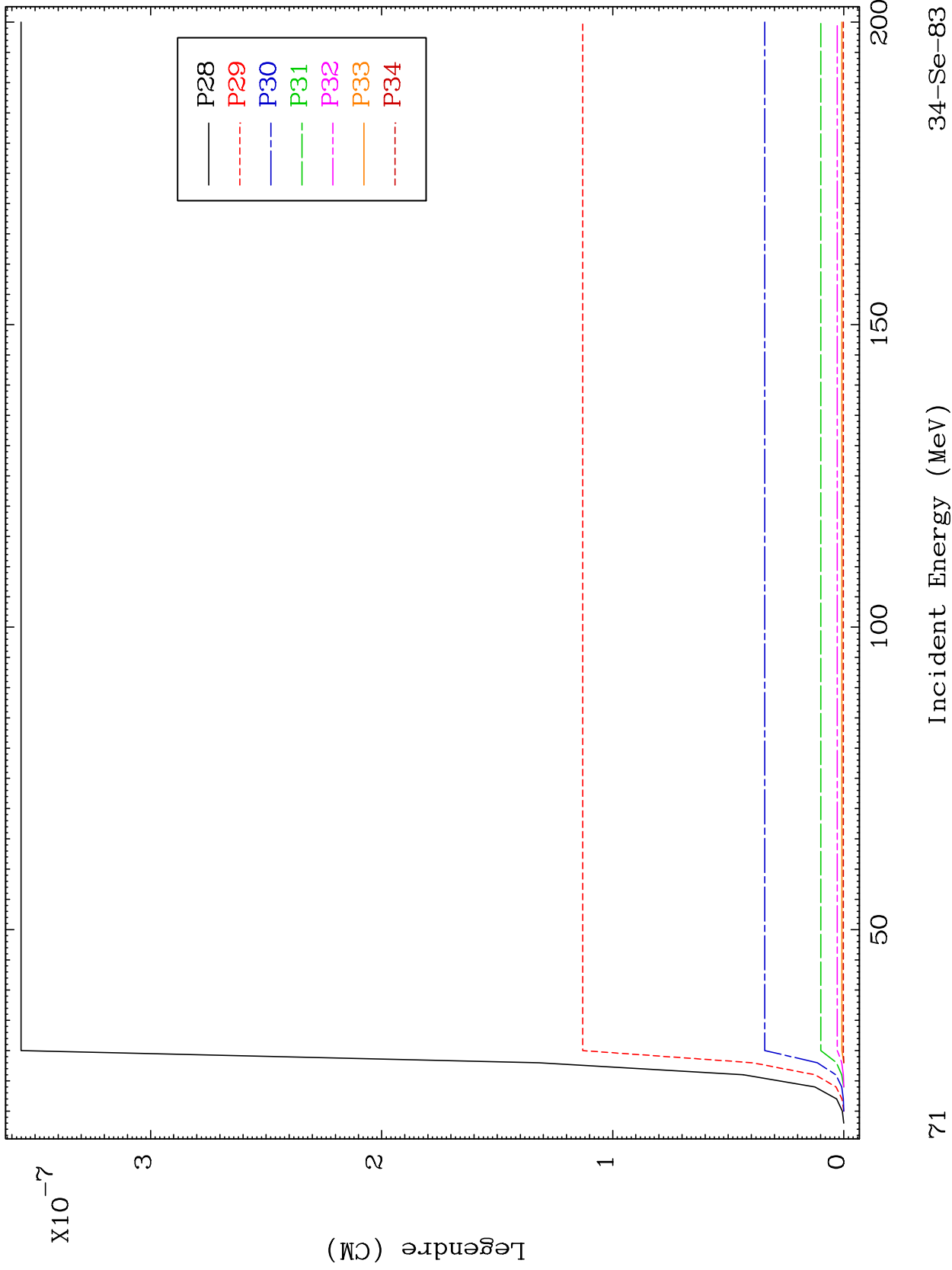
Incident Energy (MeV)

<sup>34</sup>Se-83

MAT 3452

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

34-Se-83



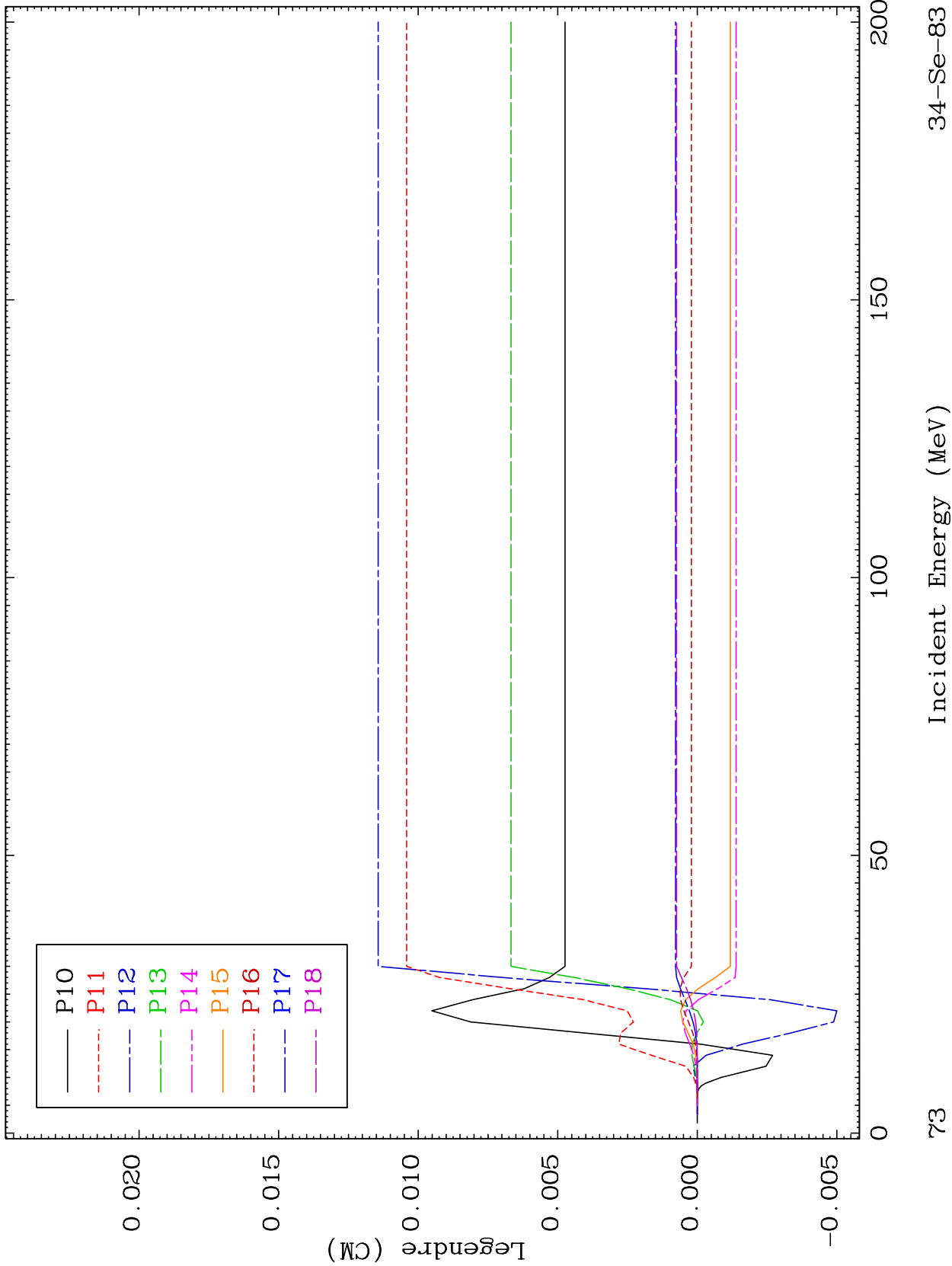




MAT 3452

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

34-Se-83



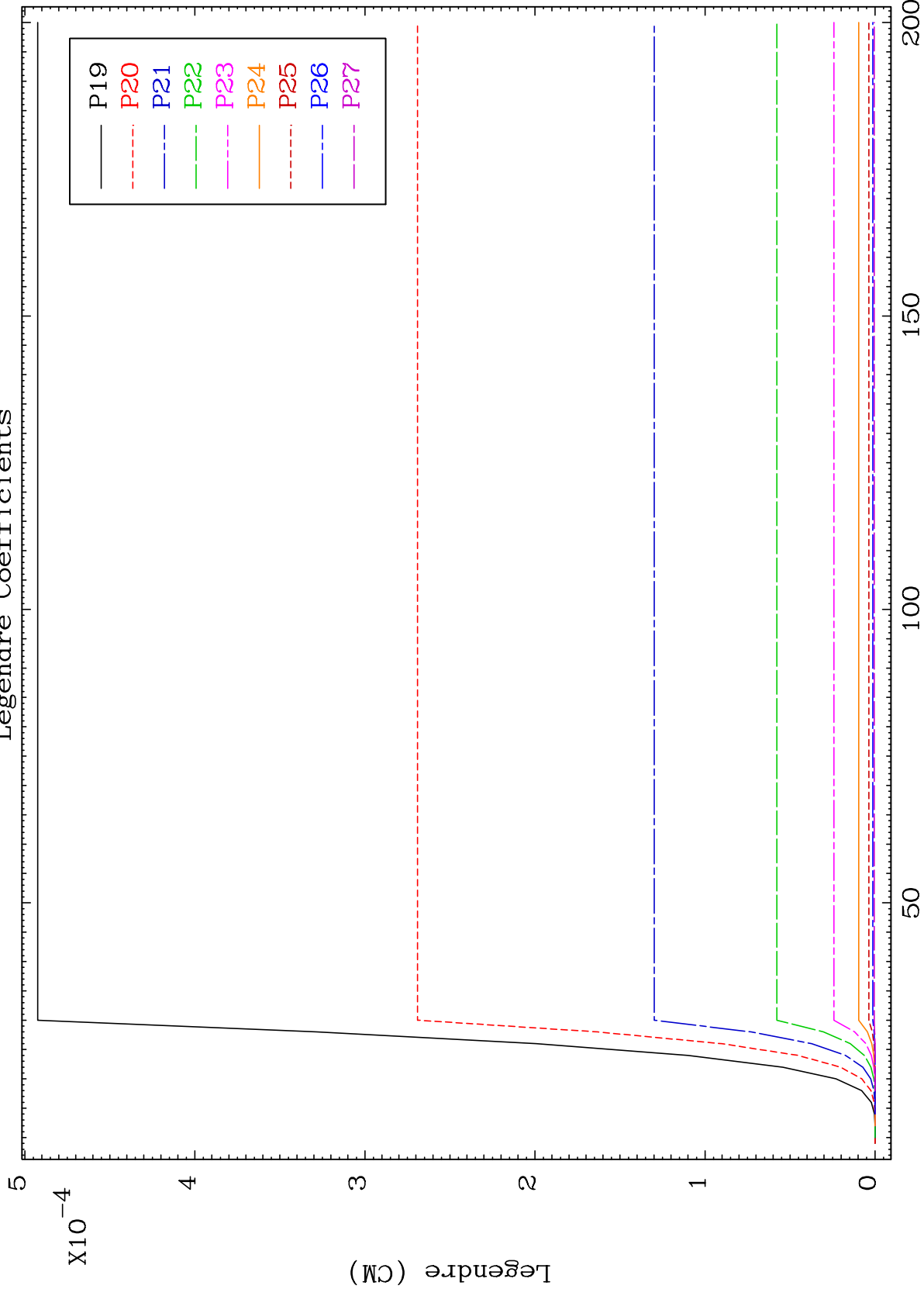
73

34-Se-83

MAT 3452

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

<sup>34</sup>Se-83



74

Incident Energy (MeV)

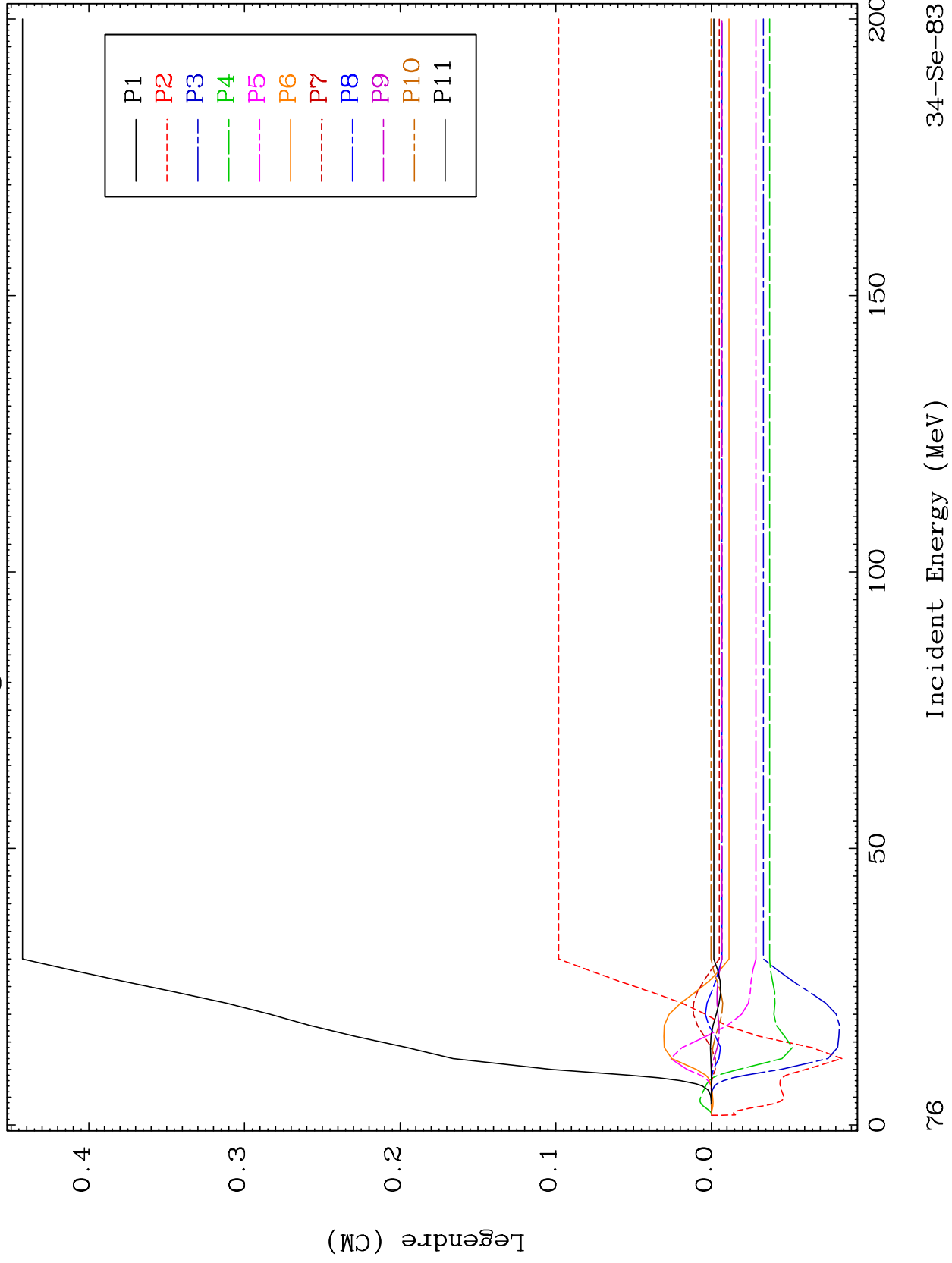
<sup>34</sup>Se-83



MAT 3452

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

34-Se-83



76

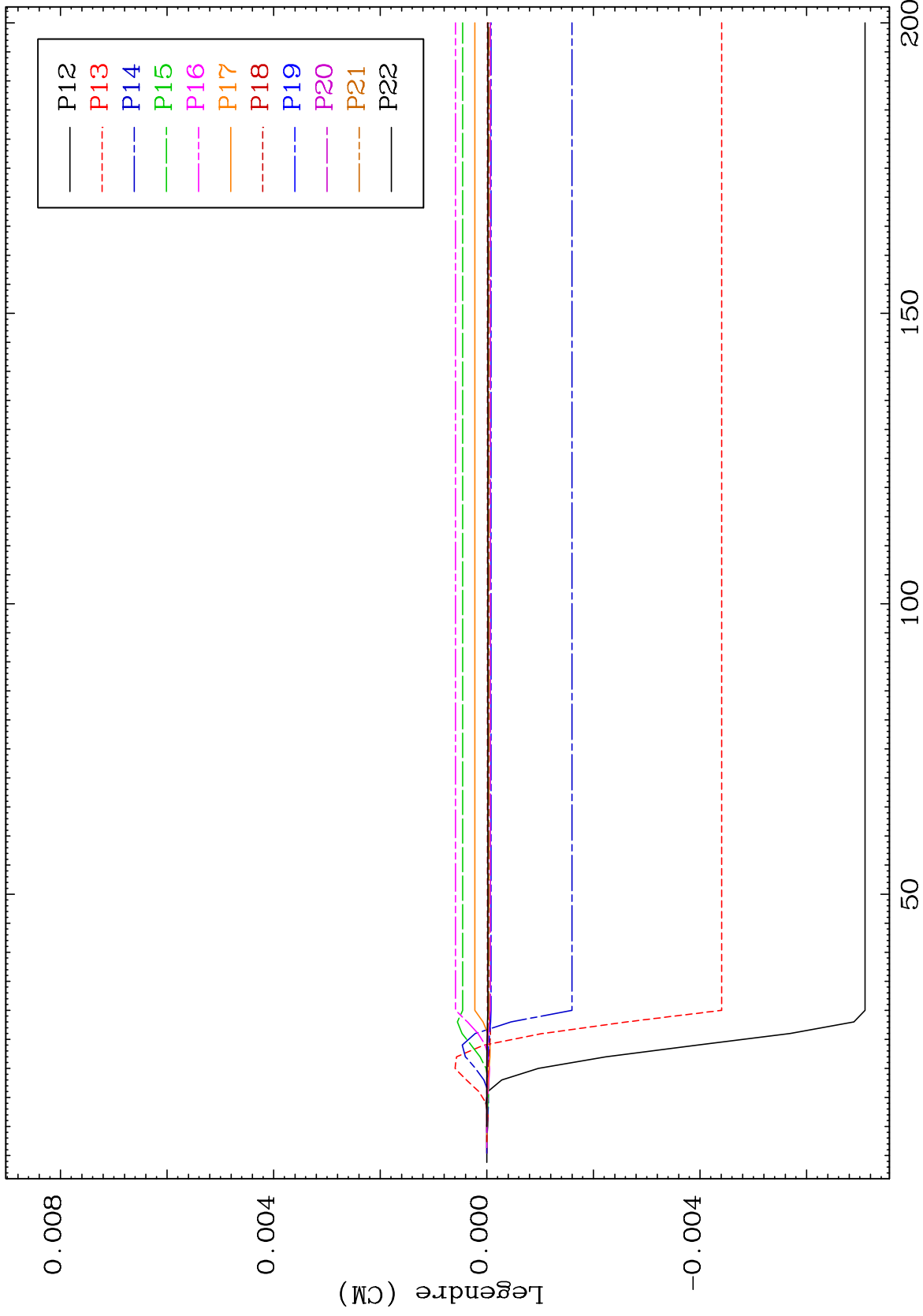
Incident Energy (MeV)

34-Se-83

MAT 3452

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

34-Se-83



77

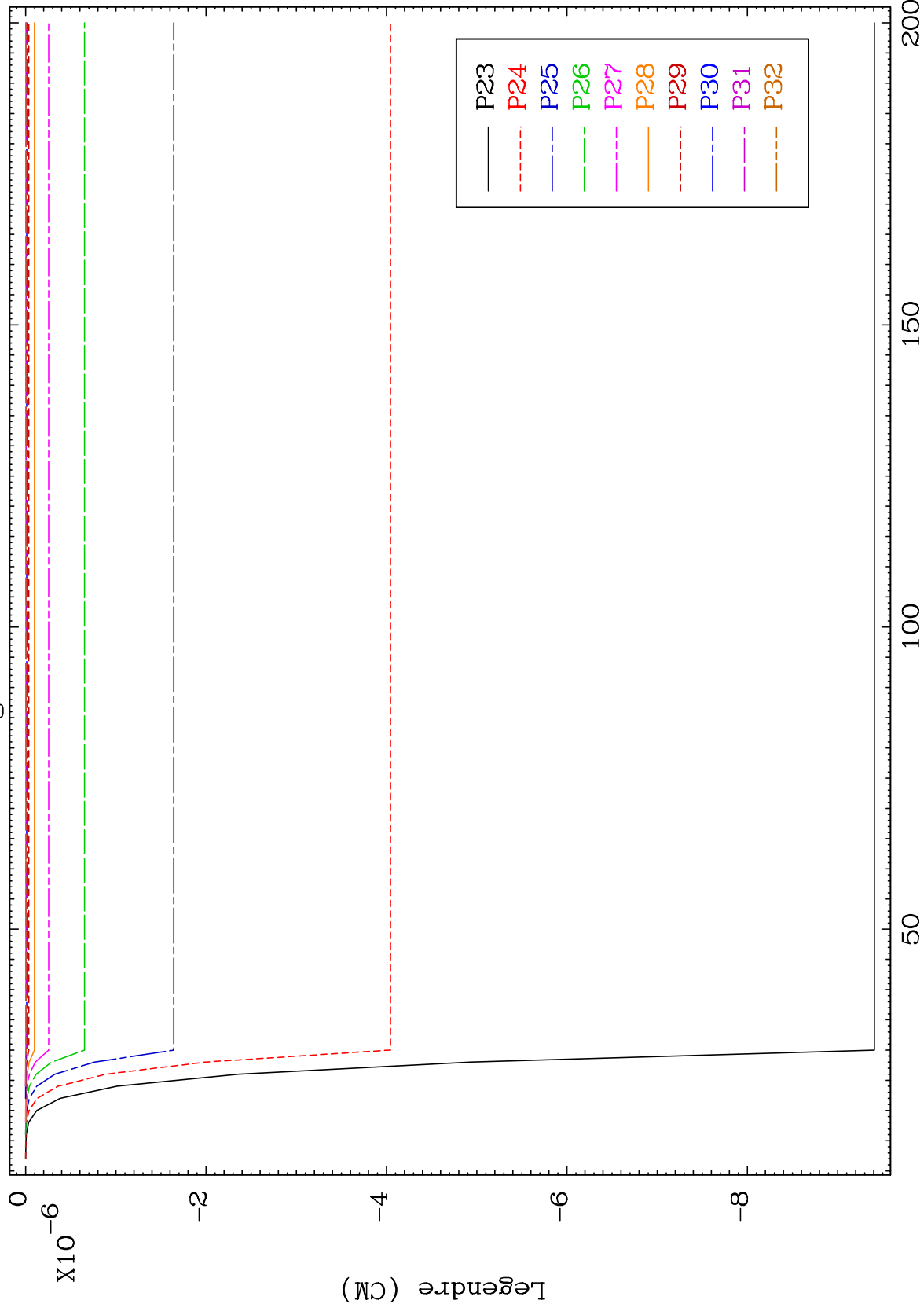
Incident Energy (MeV)

34-Se-83

MAT 3452

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

34-Se-83



78

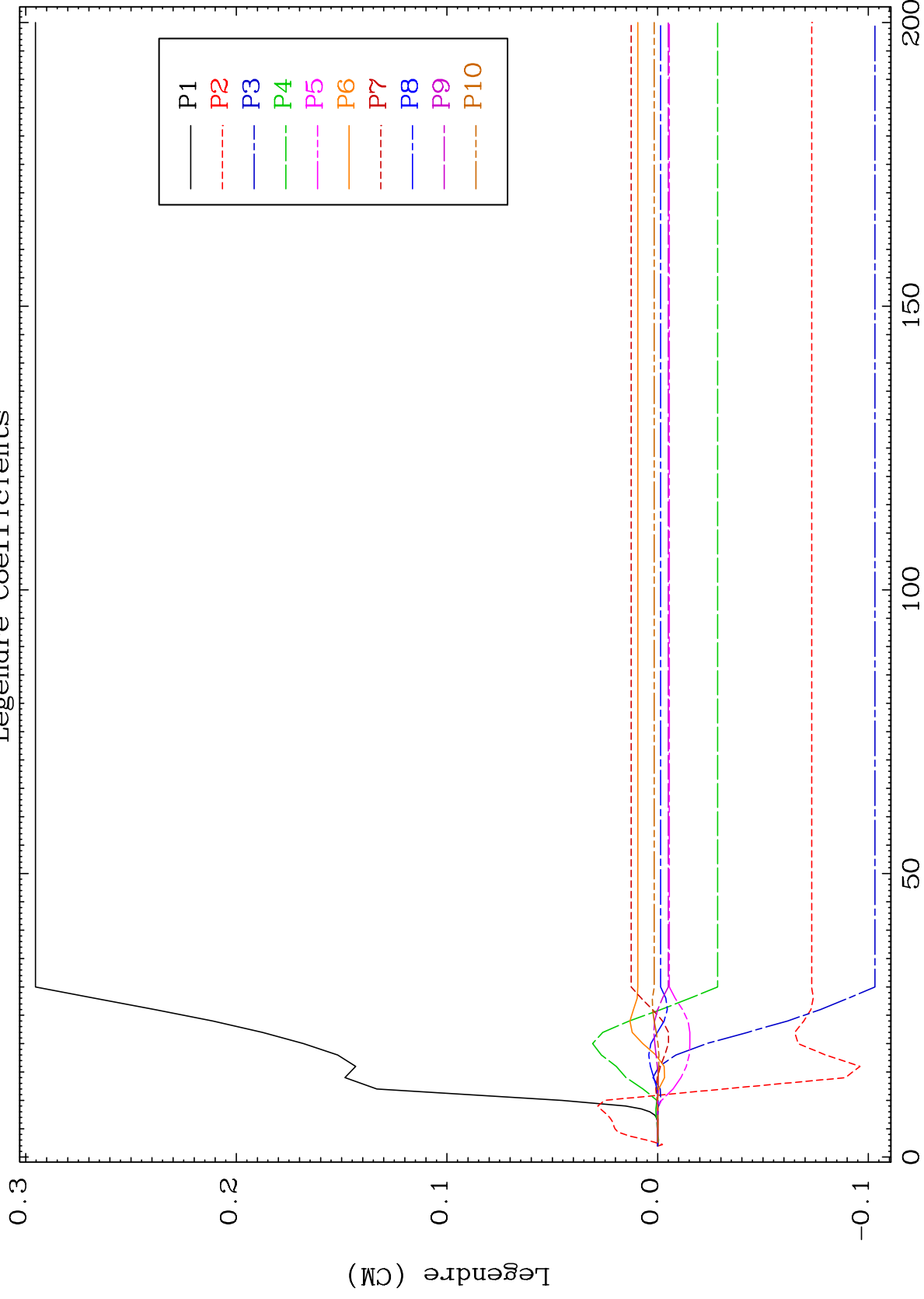
Incident Energy (MeV)

34-Se-83

MAT 3452

MT= 66 (n,n') Level  
Legendre Coefficients

<sup>34</sup>Se-83



79

Incident Energy (MeV)

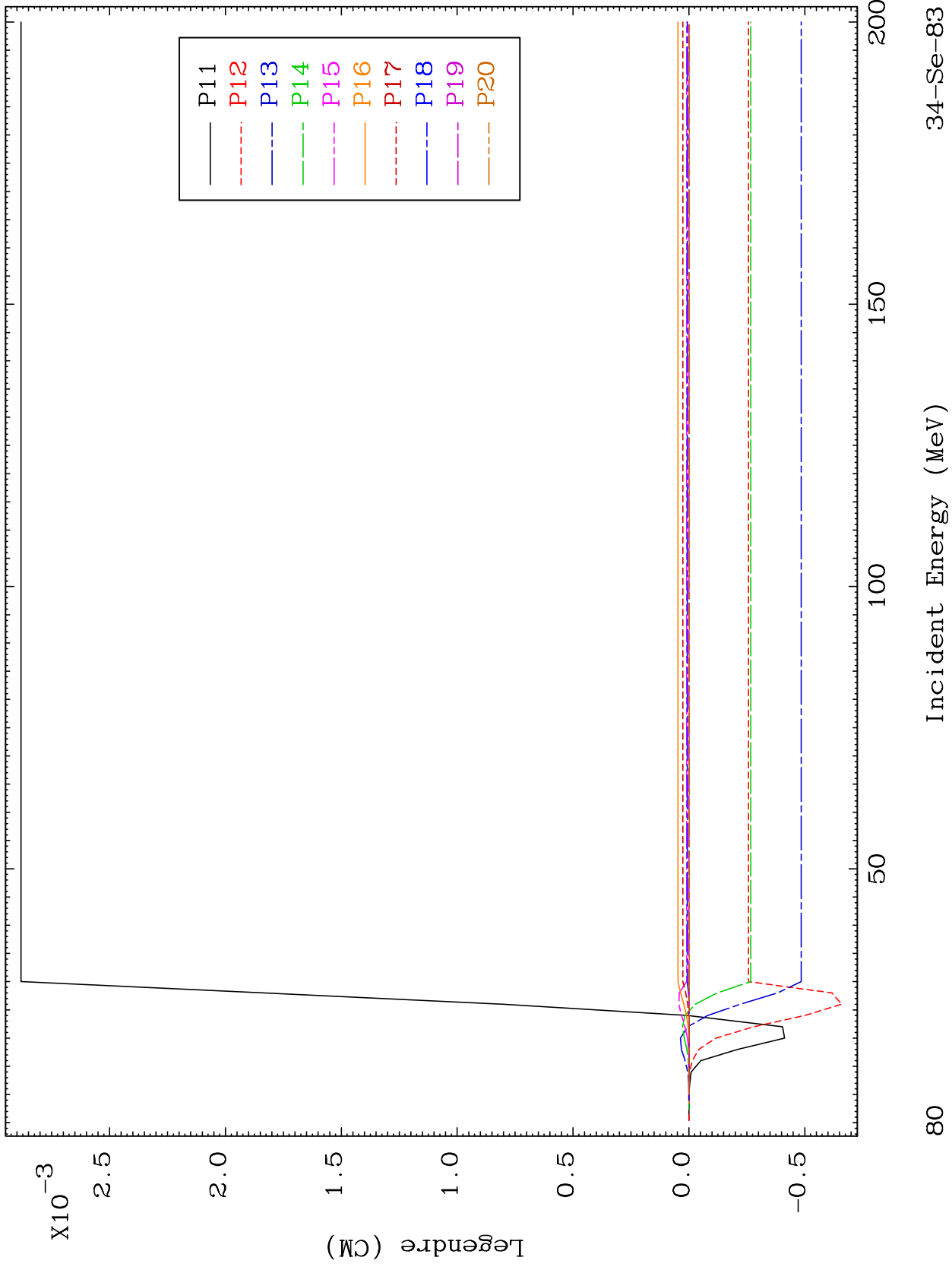
<sup>34</sup>Se-83



MAT 3452

MT= 66 (n,n') Level  
Legendre Coefficients

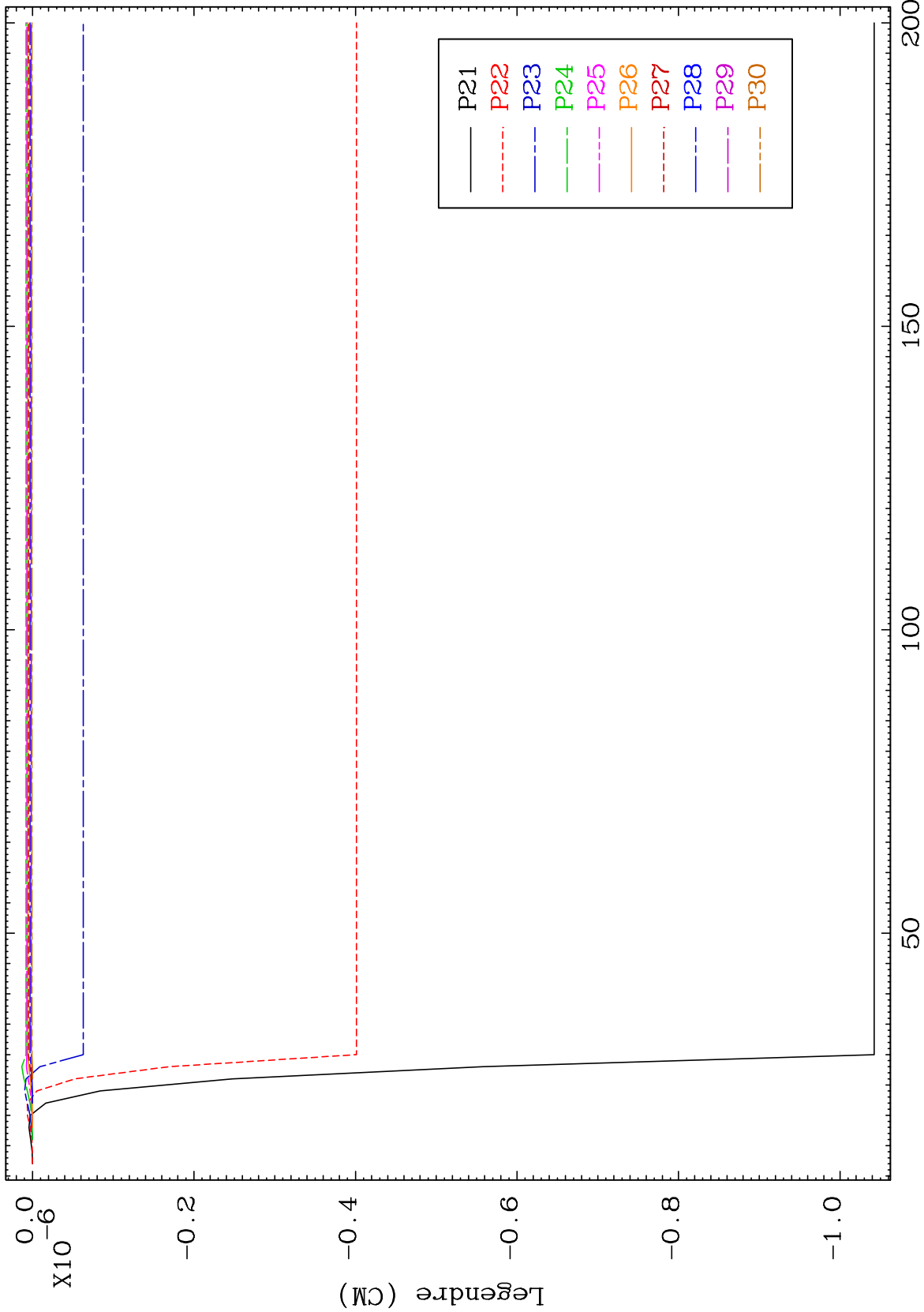
34-Se-83



80

Incident Energy (MeV)

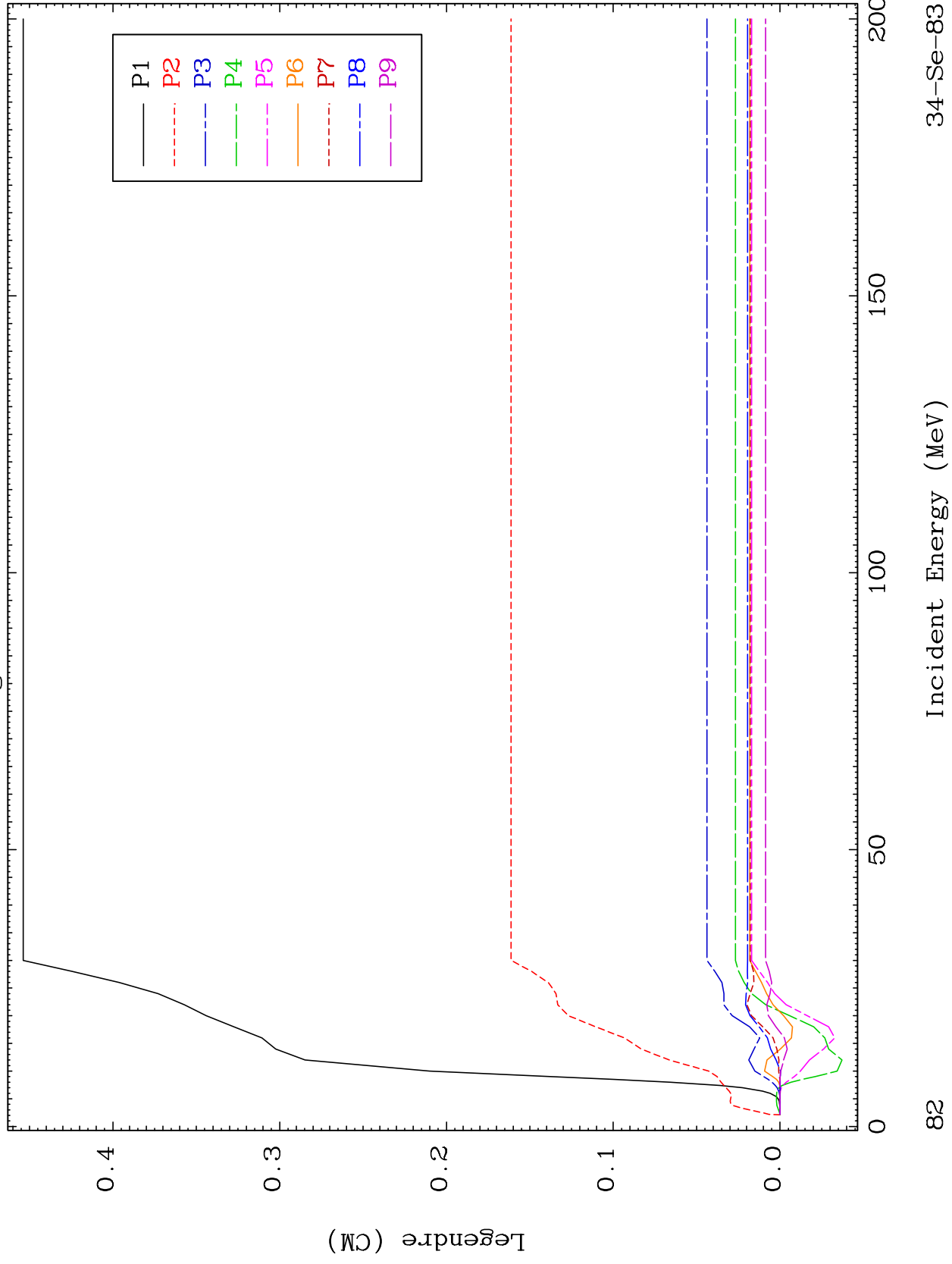
34-Se-83



MAT 3452

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

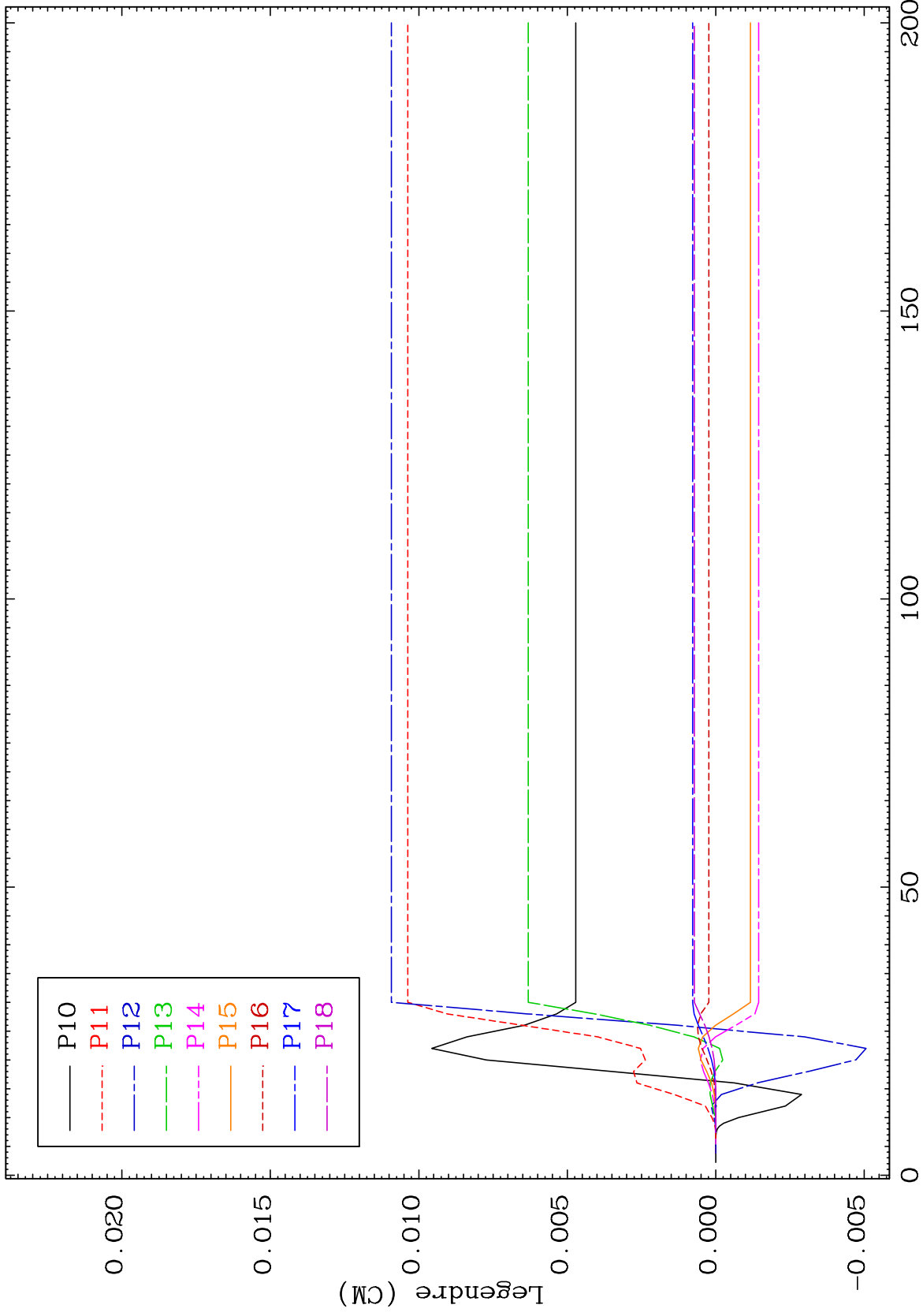
34-Se-83



MAT 3452

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

34-Se-83



83

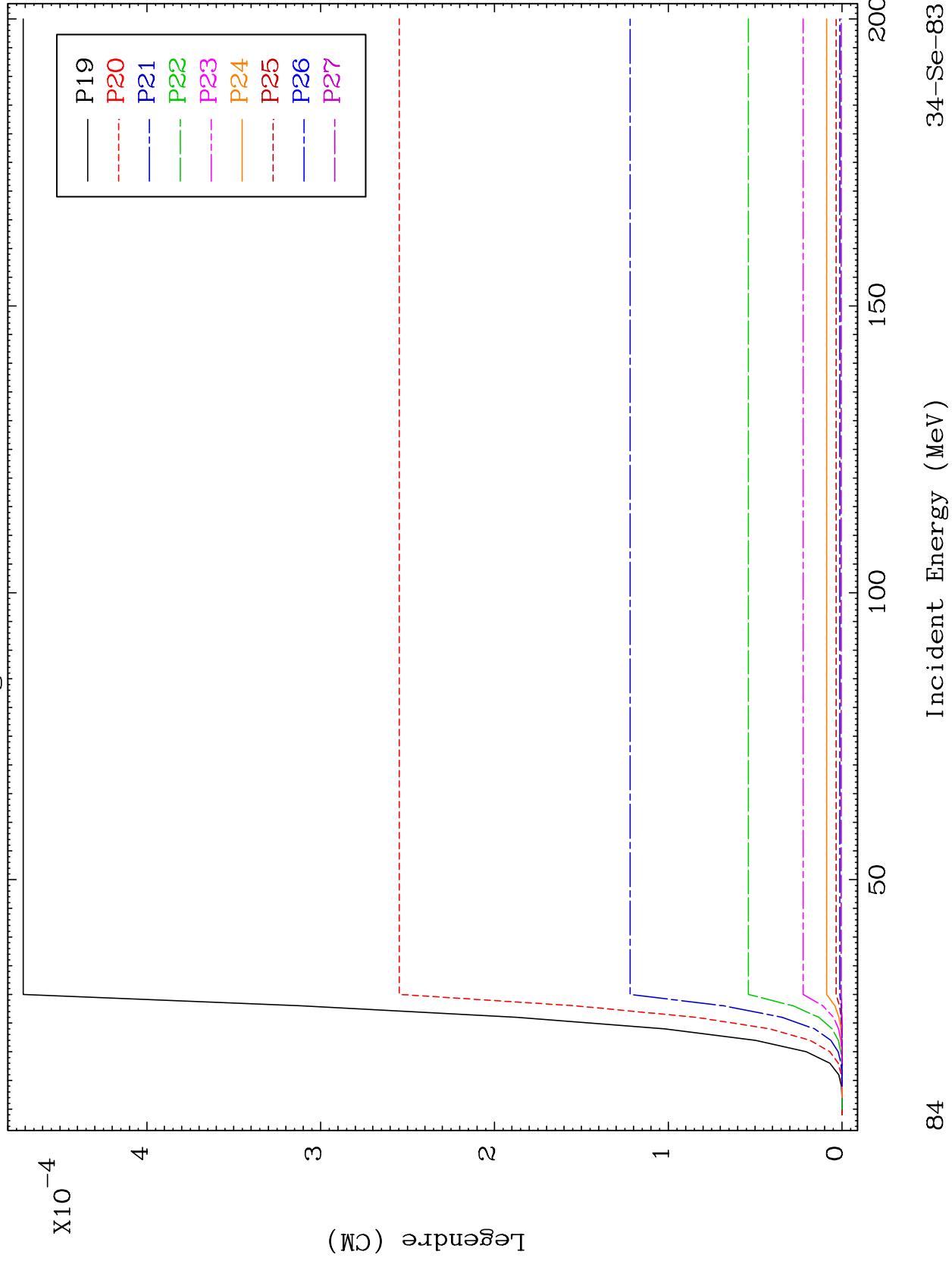
Incident Energy (MeV)

34-Se-83

MAT 3452

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

<sup>34</sup>Se-83



84

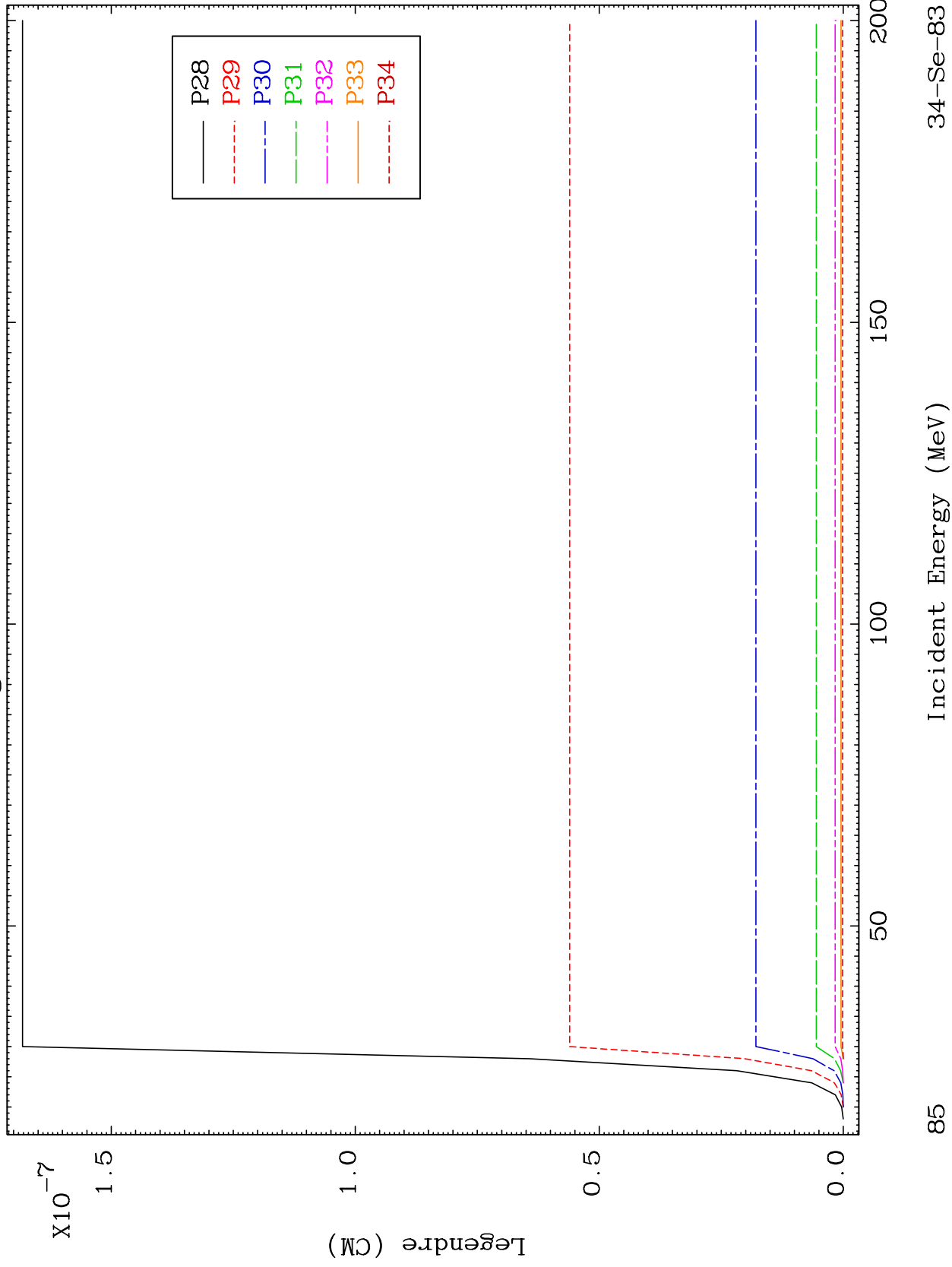
Incident Energy (MeV)

<sup>34</sup>Se-83

MAT 3452

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

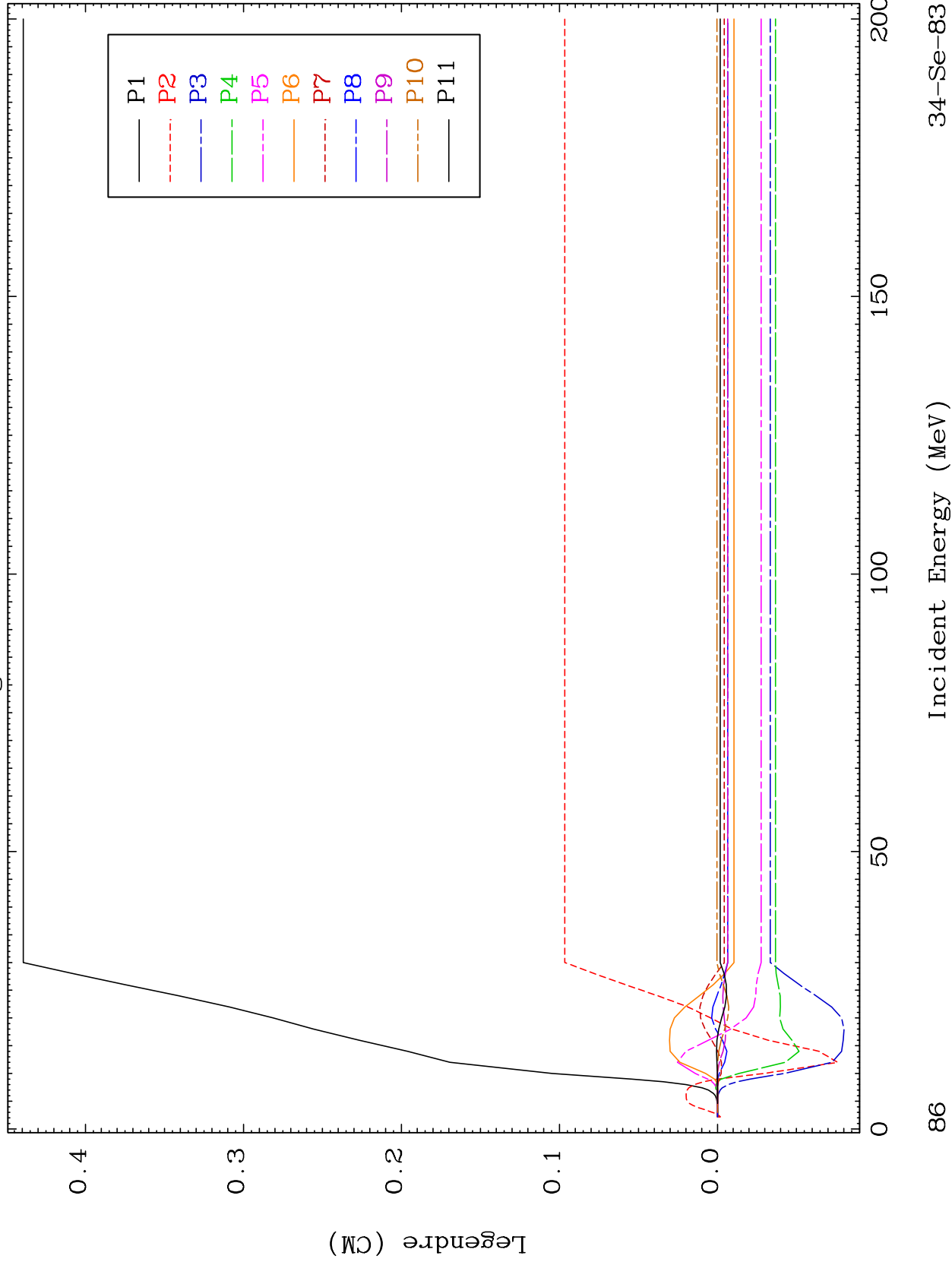
34-Se-83



MAT 3452

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

34-Se-83



86

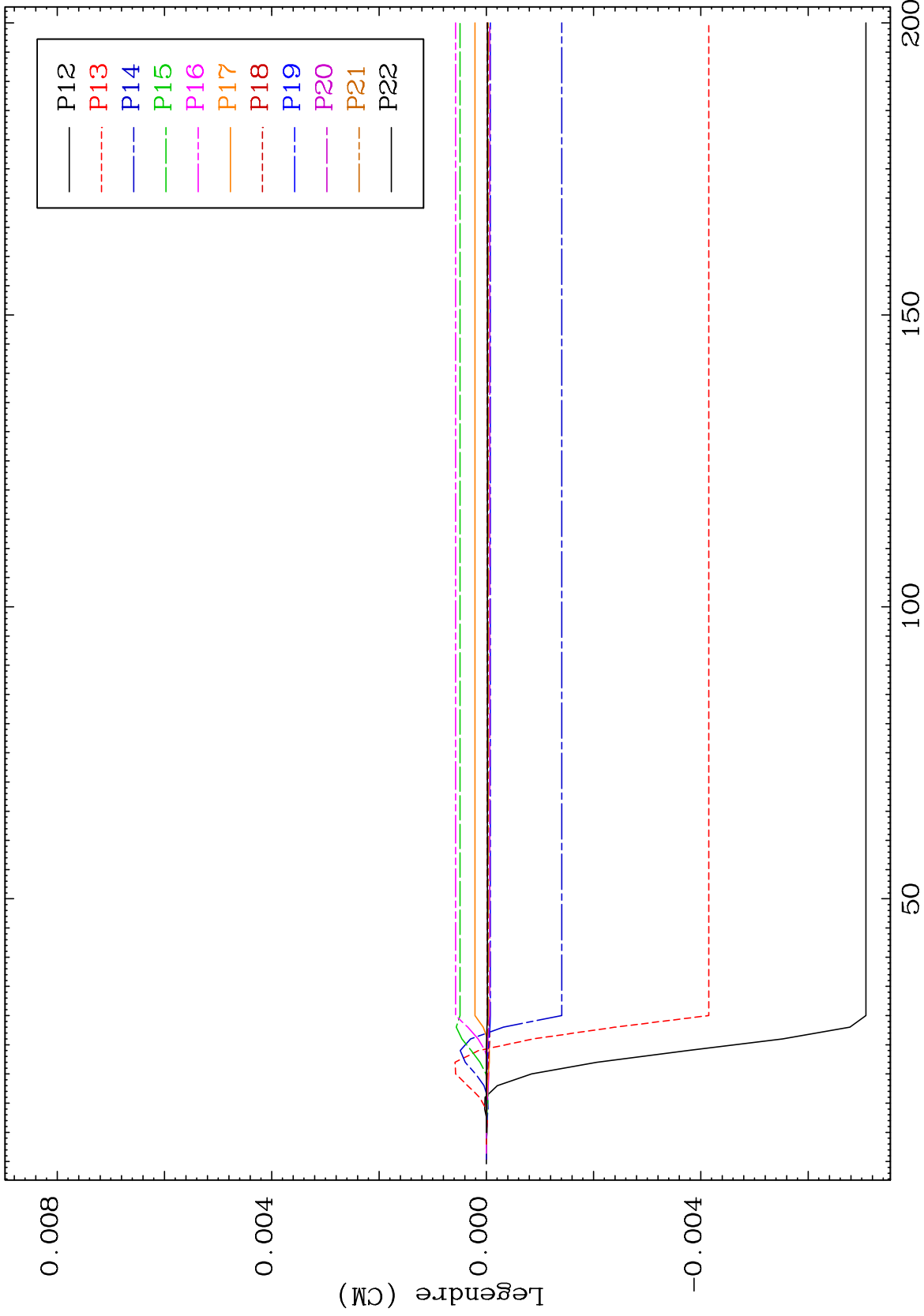
Incident Energy (MeV)

34-Se-83

MAT 3452

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

34-Se-83



87

Incident Energy (MeV)

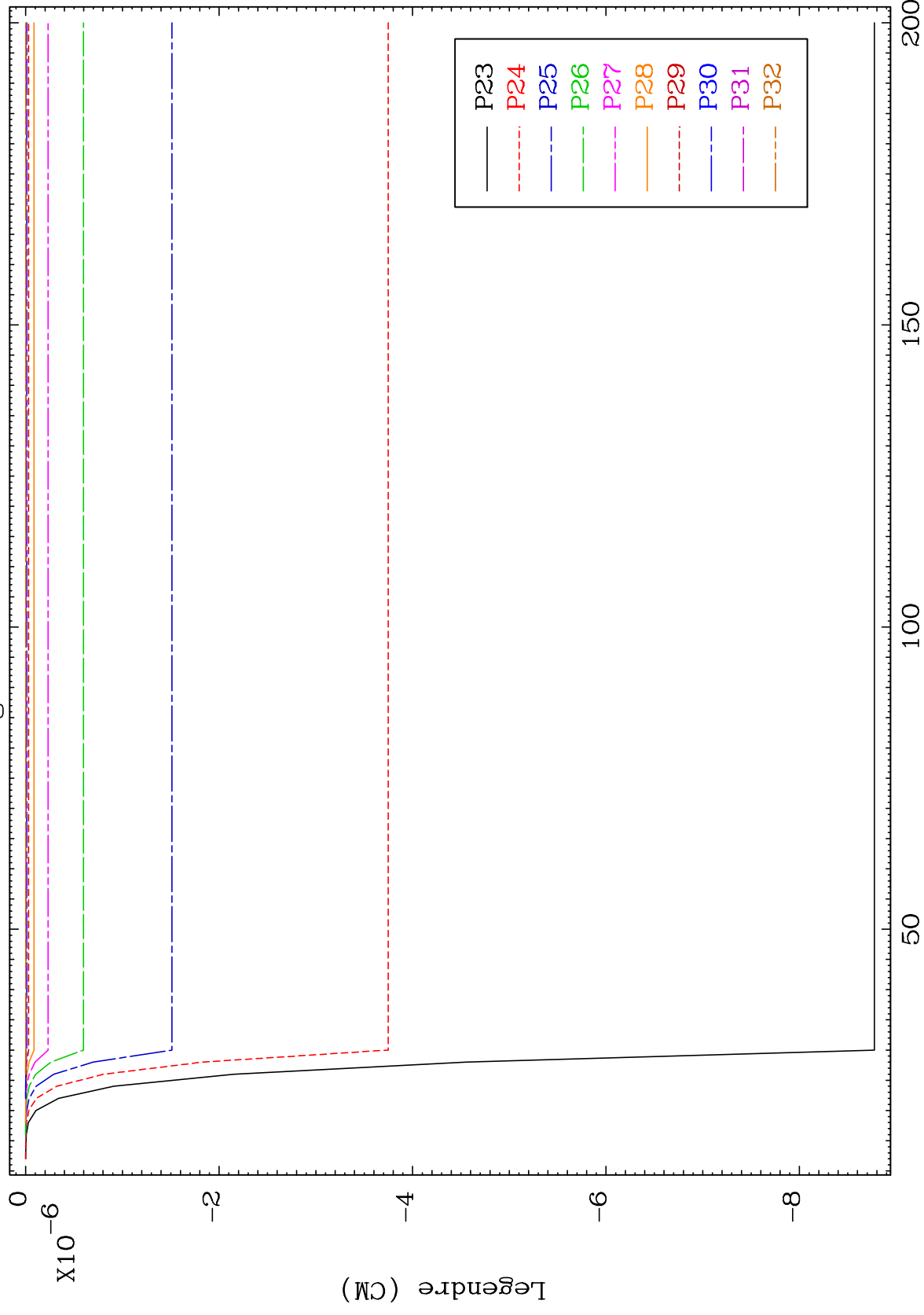
34-Se-83



MAT 3452

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

34-Se-83



88

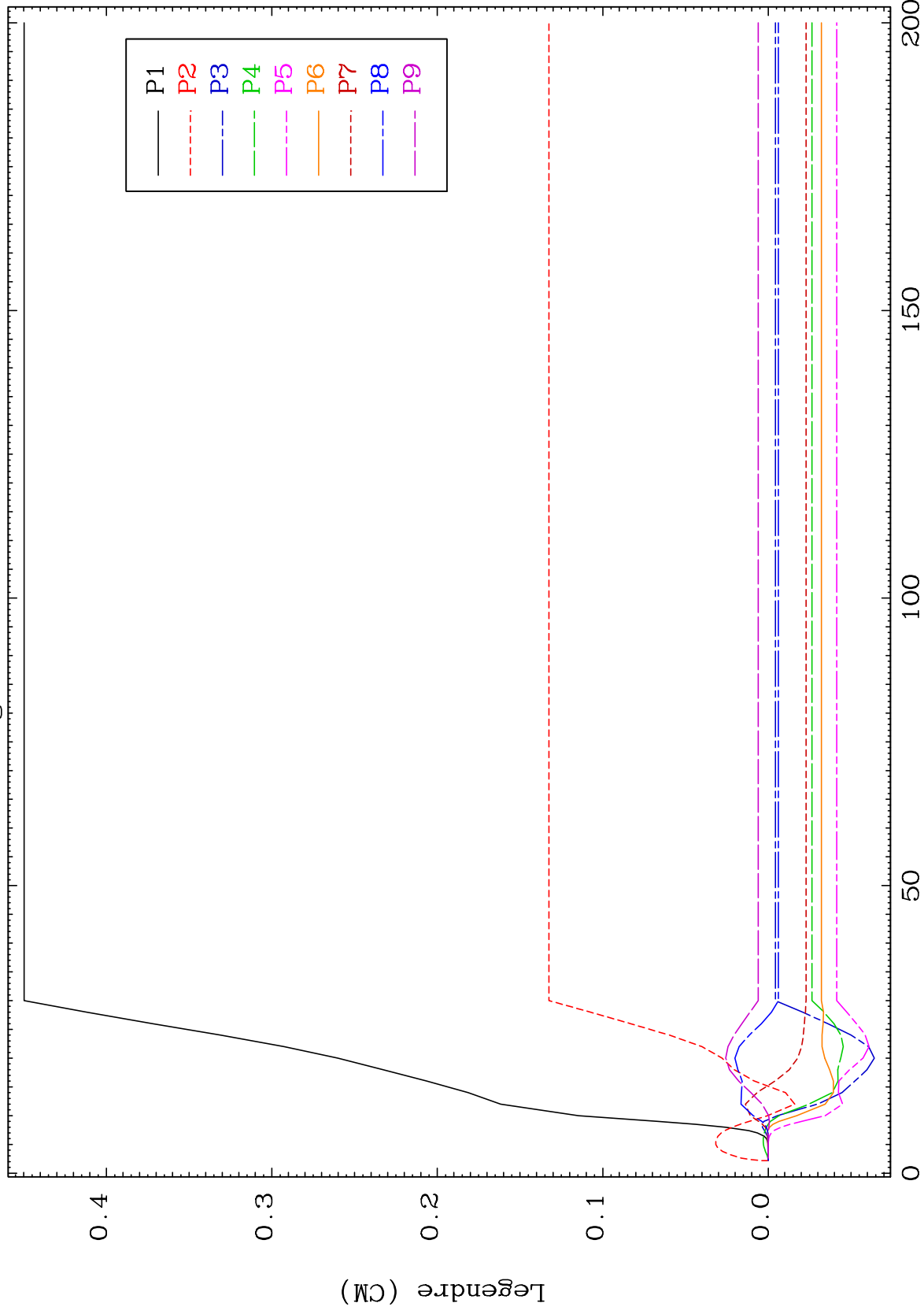
Incident Energy (MeV)

34-Se-83

MAT 3452

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

34-Se-83



89

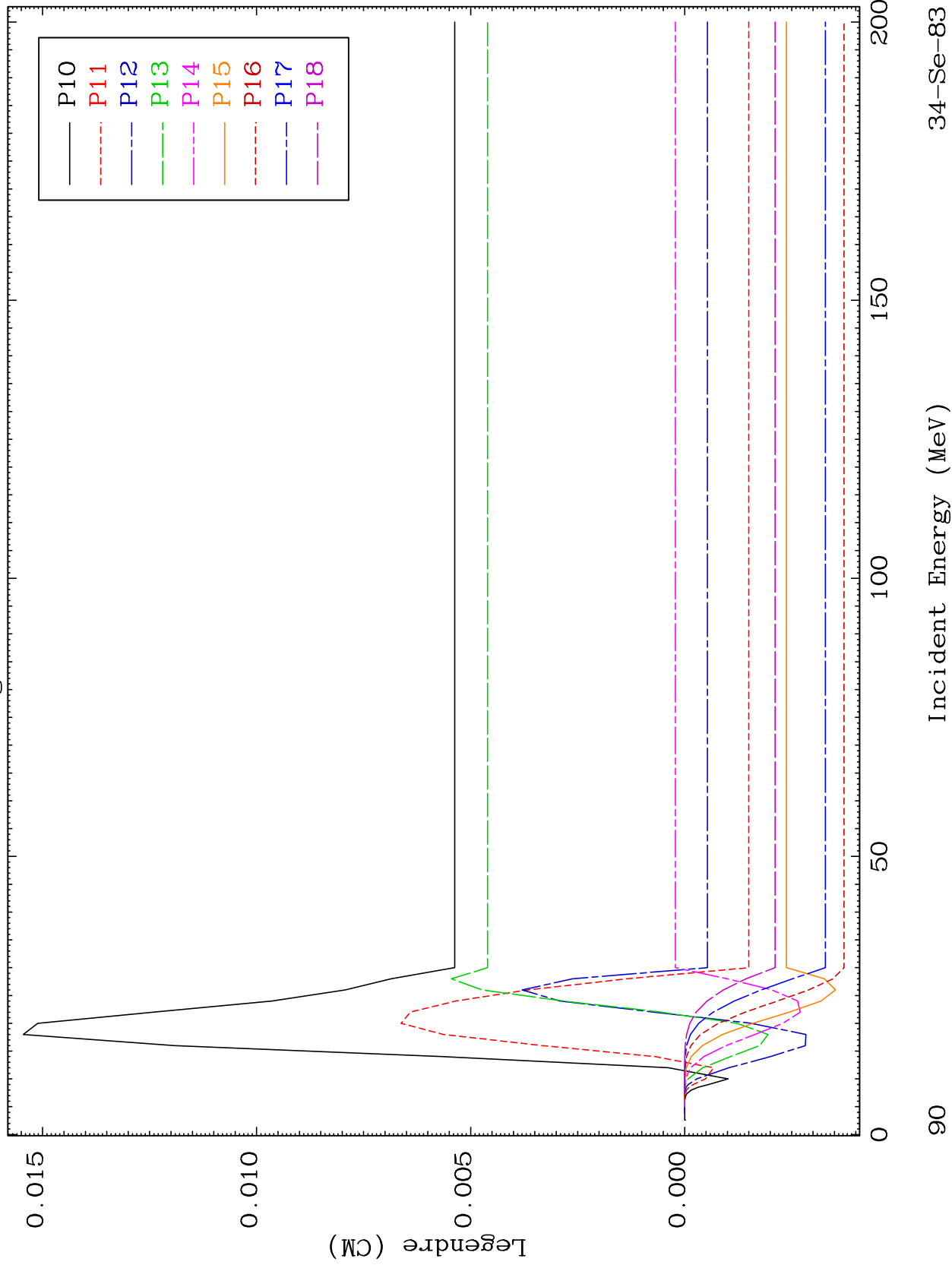
Incident Energy (MeV)

34-Se-83

MAT 3452

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

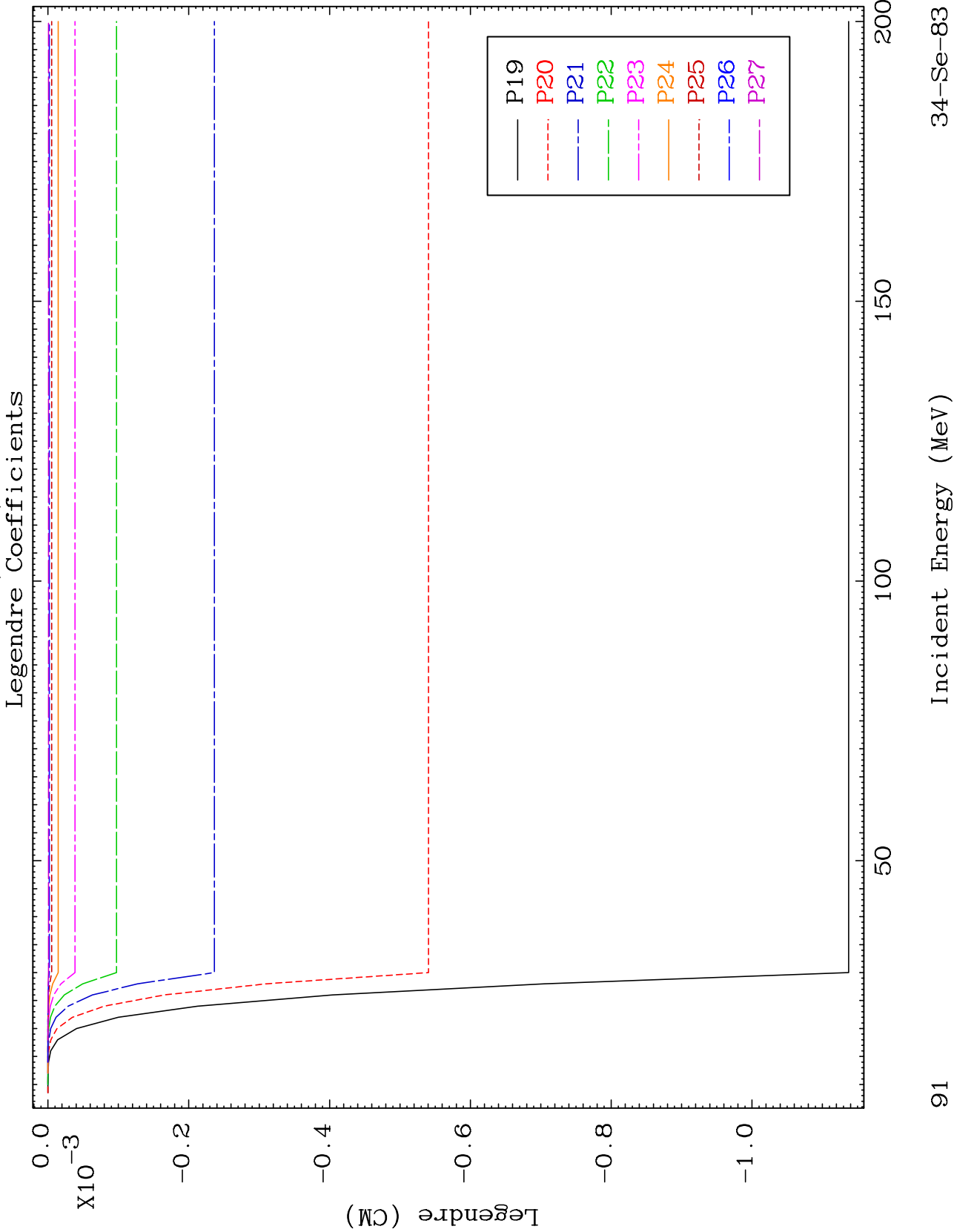
<sup>34</sup>Se-83



<sup>34</sup>Se-83

Incident Energy (MeV)

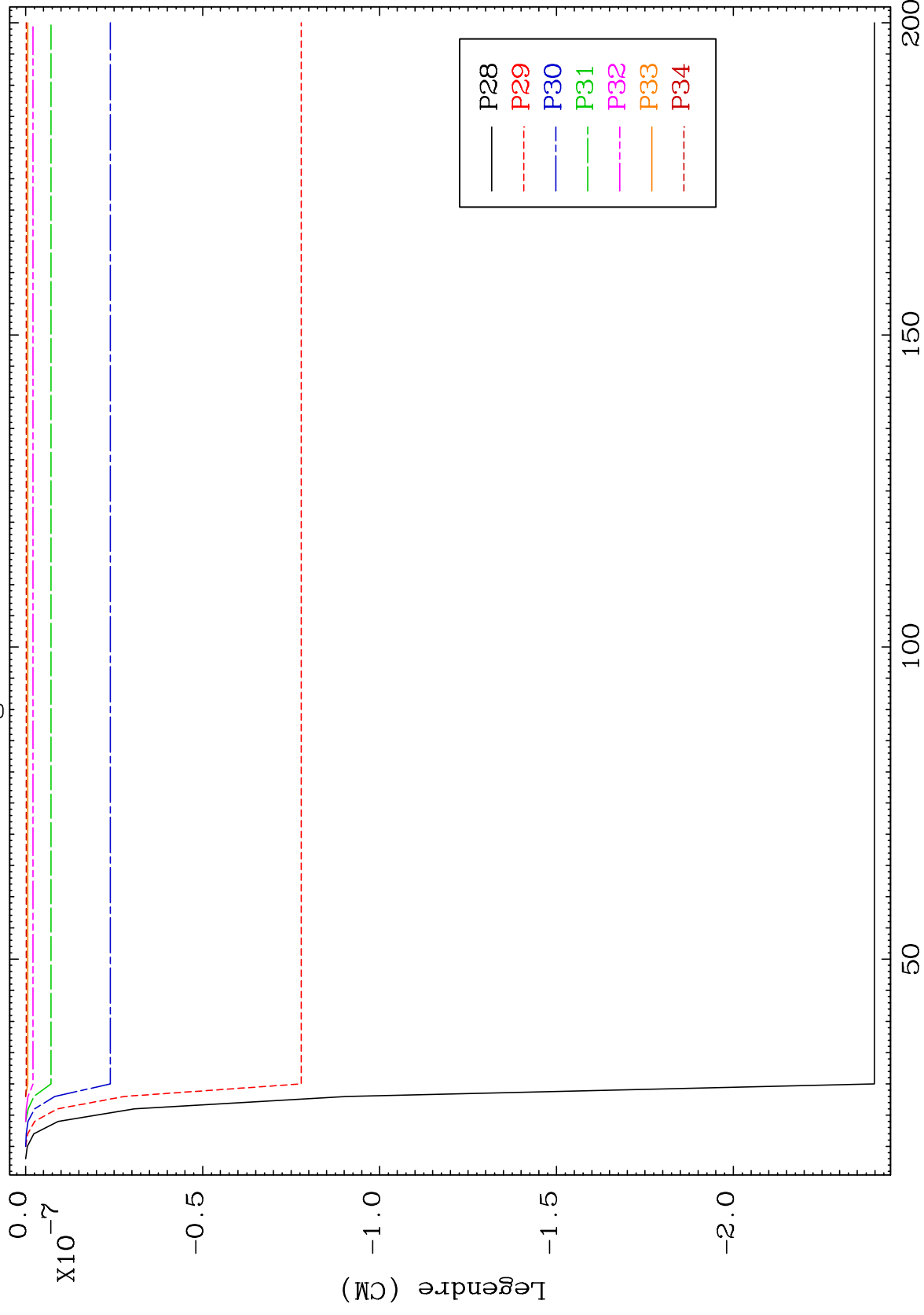
90



MAT 3452

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

34-Se-83



34-Se-83

Incident Energy (MeV)

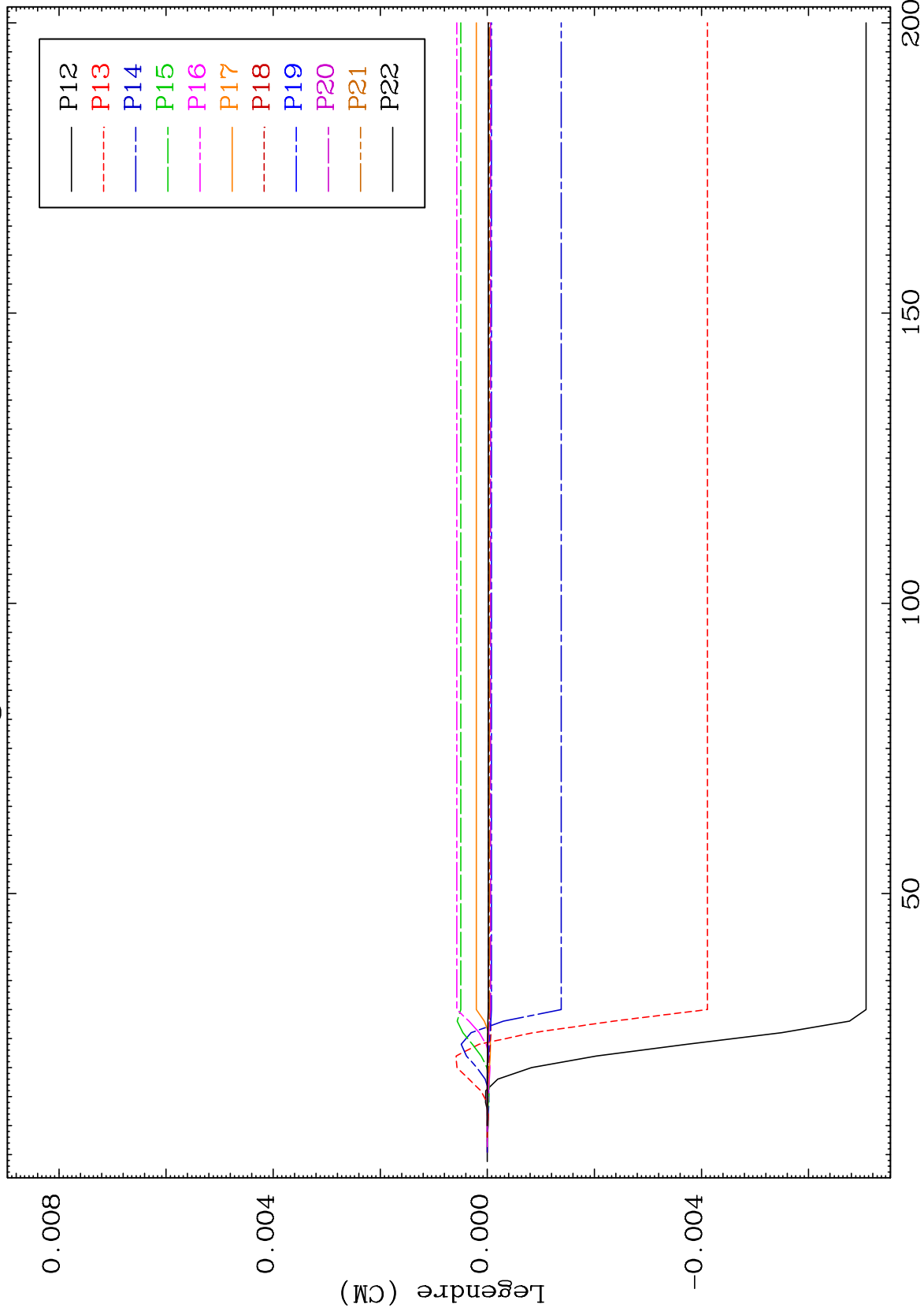
92



MAT 3452

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

<sup>34</sup>Se-83



94

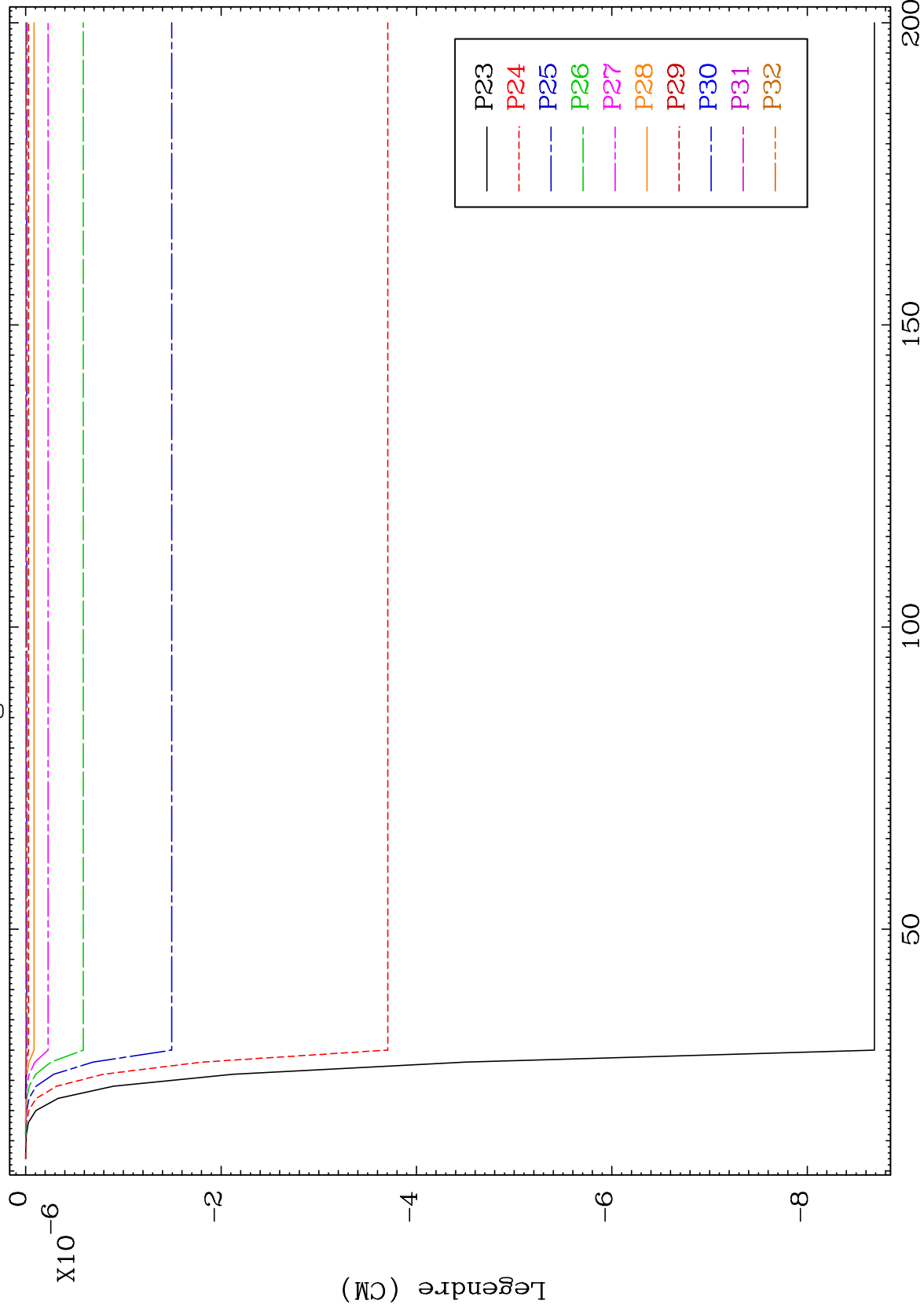
Incident Energy (MeV)

<sup>34</sup>Se-83

MAT 3452

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

34-Se-83



95

Incident Energy (MeV)

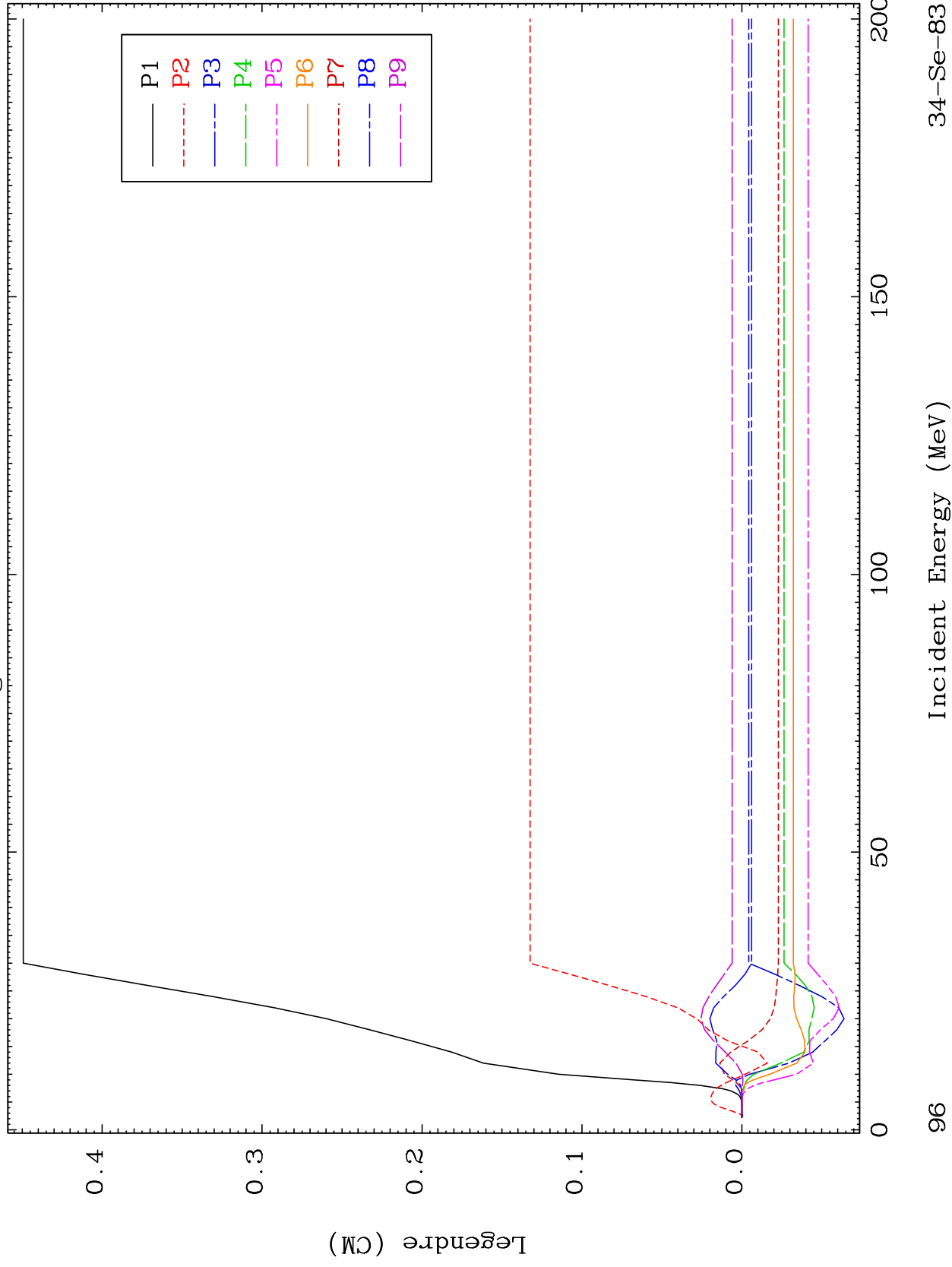
34-Se-83



MAT 3452

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

<sup>34</sup>Se-83



<sup>34</sup>Se-83

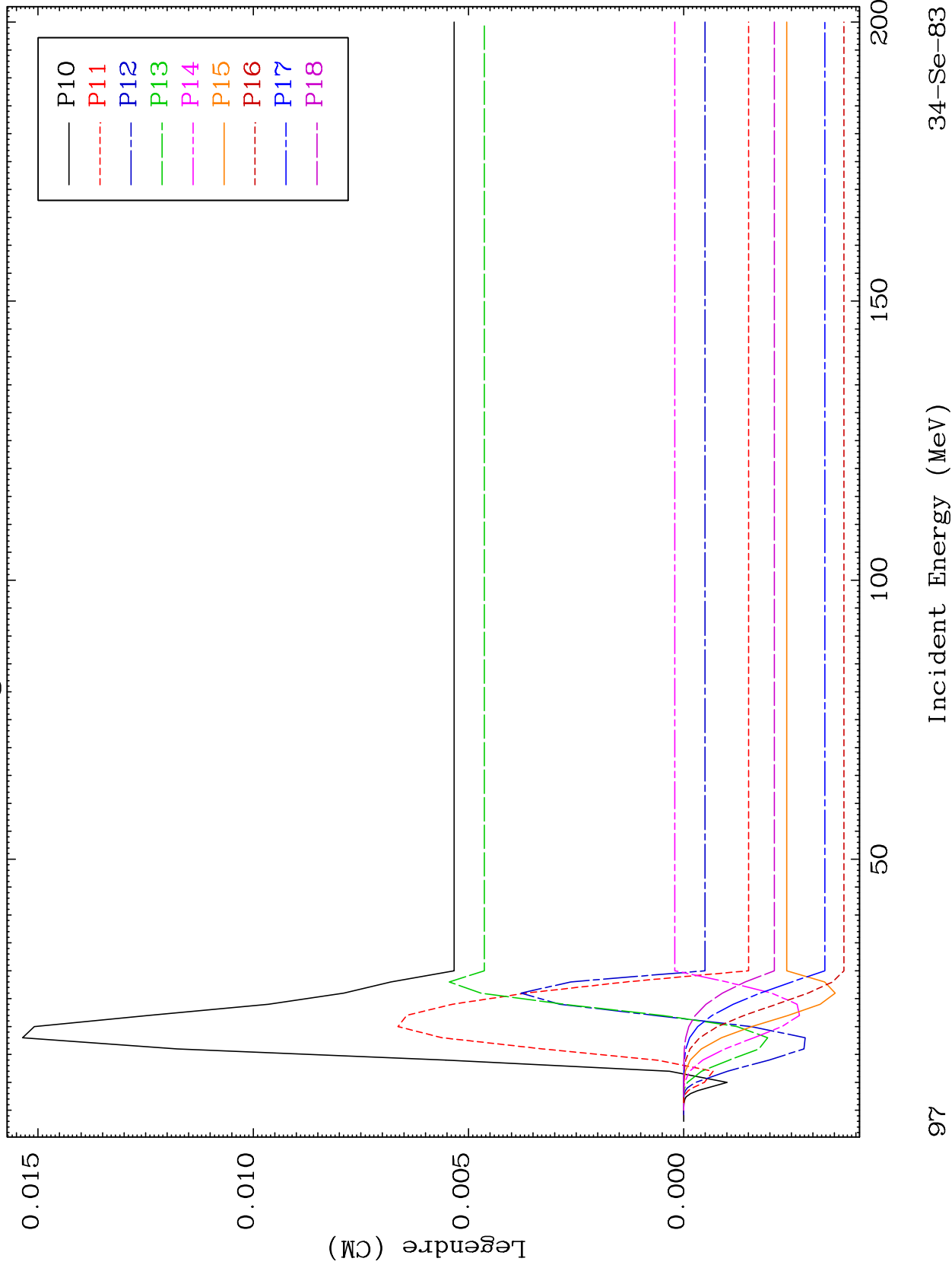
Incident Energy (MeV)

96

MAT 3452

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

<sup>34</sup>Se-83



97

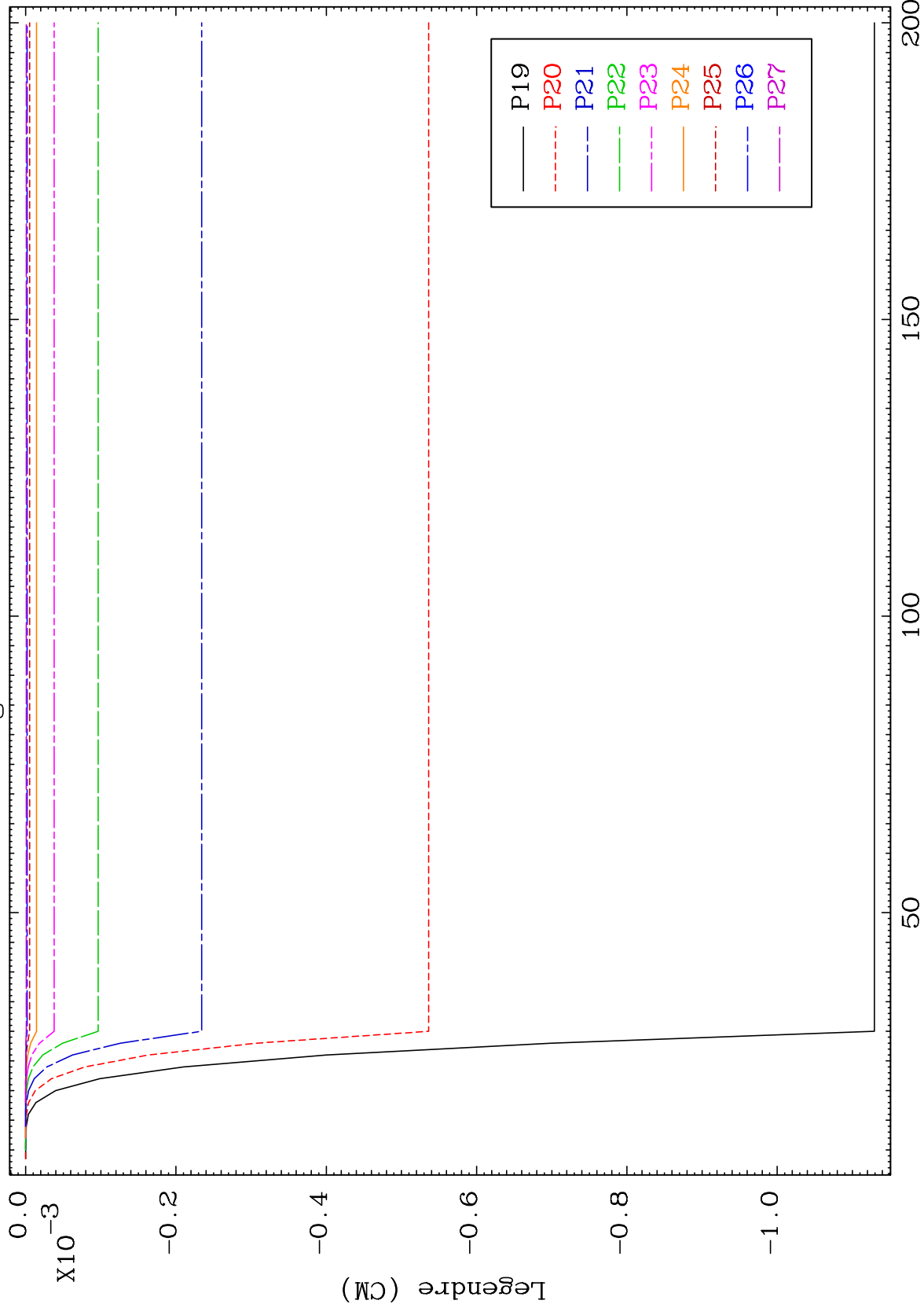
Incident Energy (MeV)

<sup>34</sup>Se-83

MAT 3452

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

34-Se-83



98

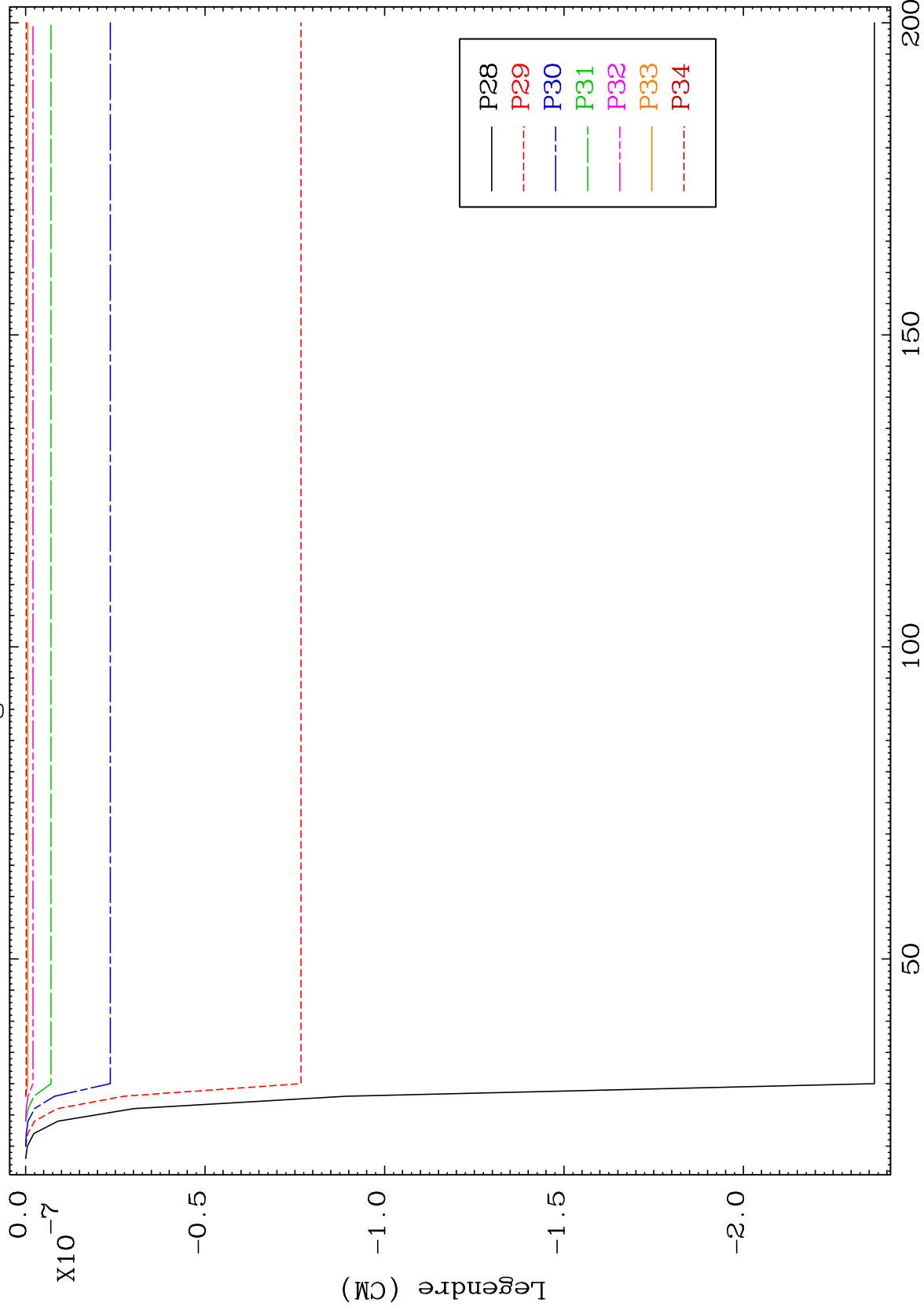
Incident Energy (MeV)

34-Se-83

MAT 3452

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

<sup>34</sup>Se-83



99

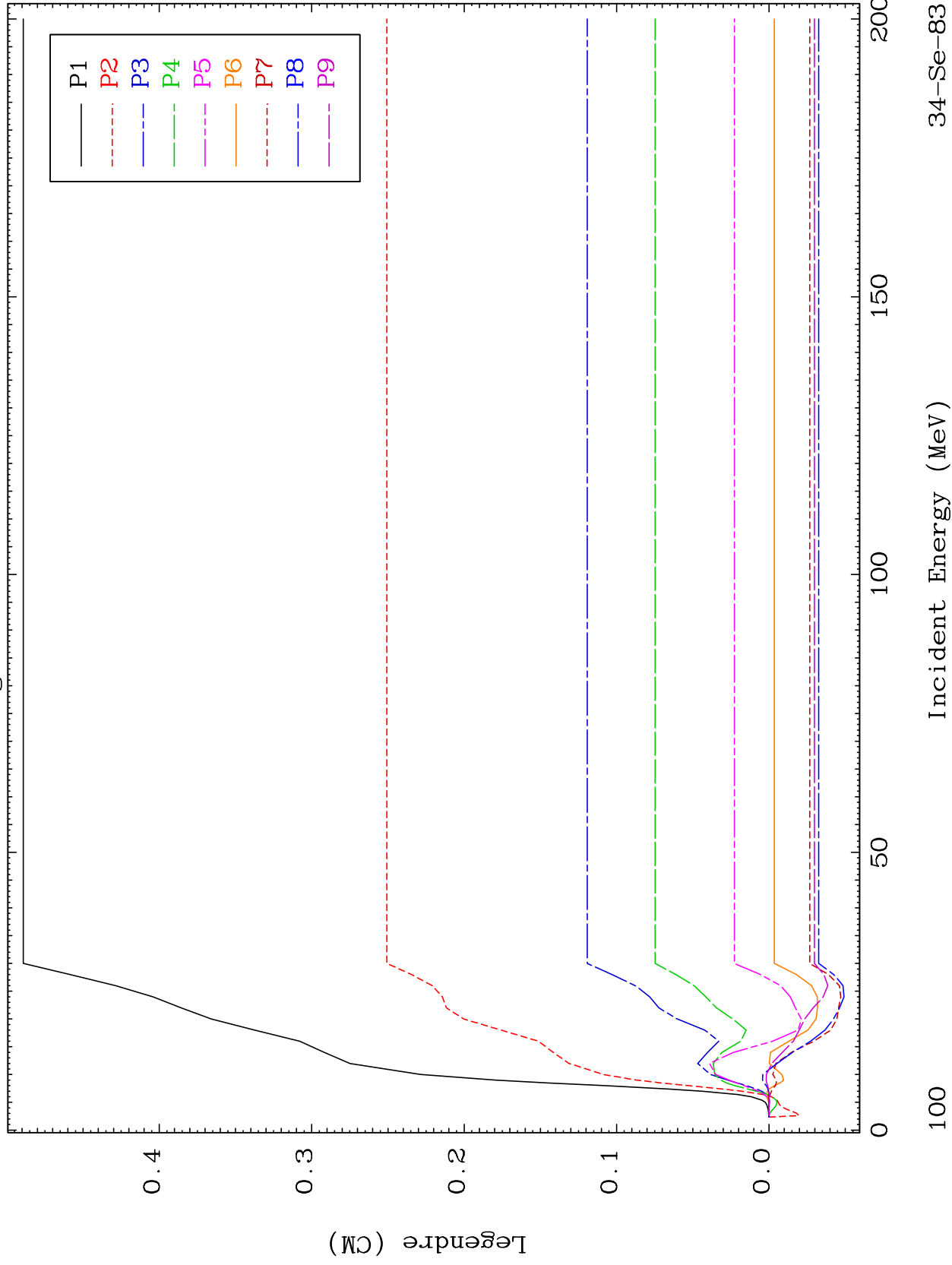
Incident Energy (MeV)

<sup>34</sup>Se-83

MAT 3452

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

<sup>34</sup>Se-83

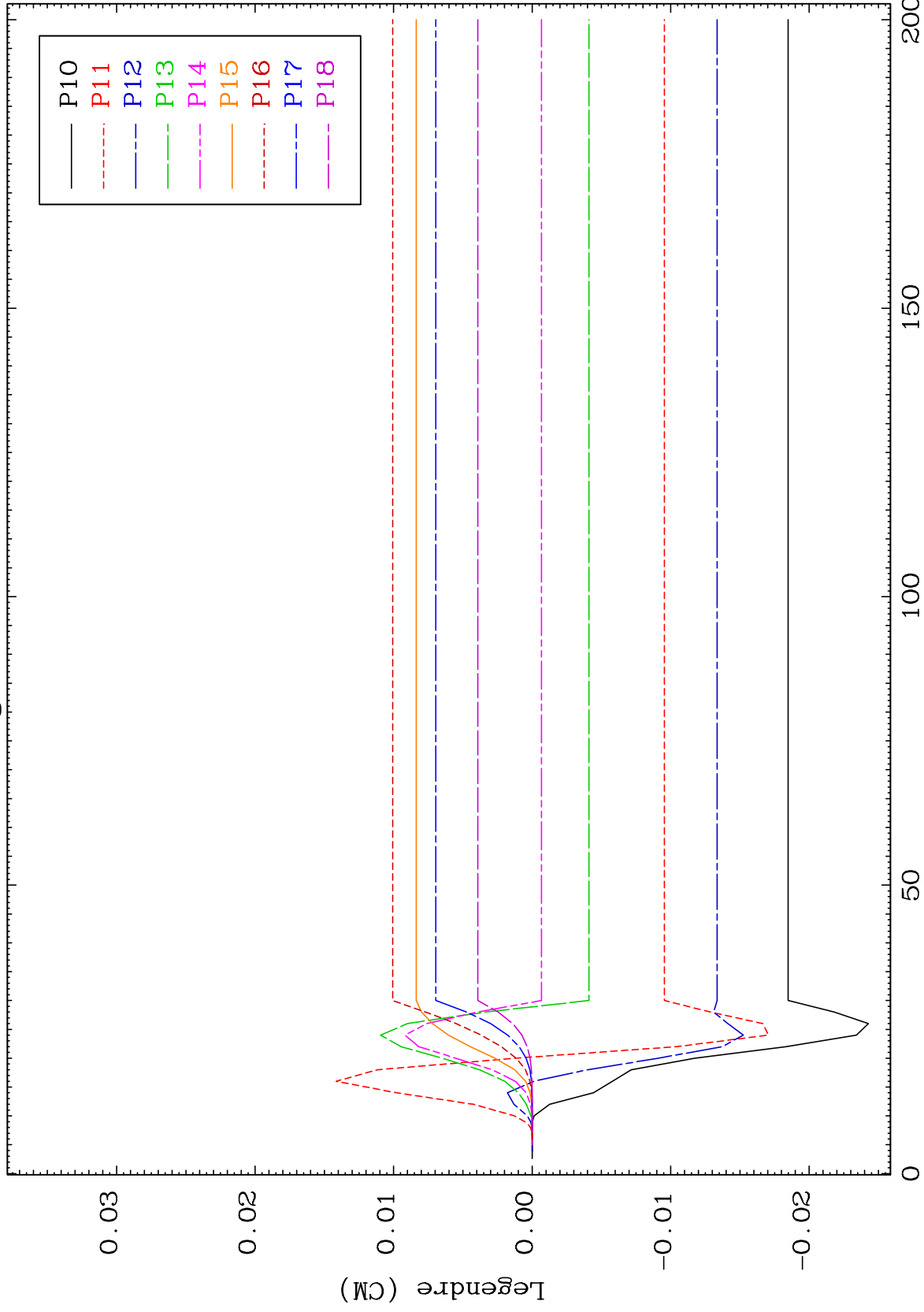


<sup>34</sup>Se-83

MAT 3452

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

<sup>34</sup>Se-83



101

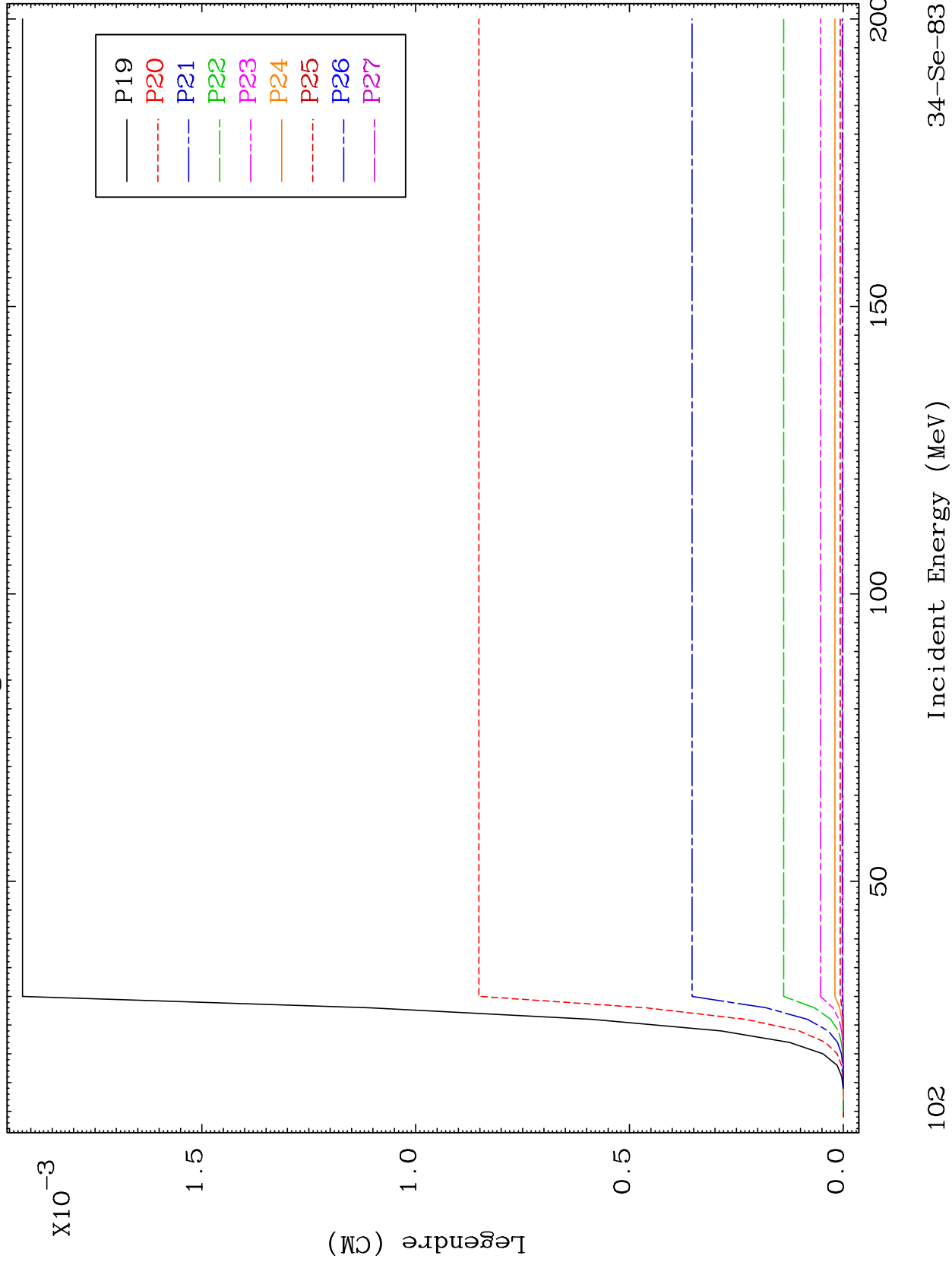
Incident Energy (MeV)

<sup>34</sup>Se-83

MAT 3452

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

34-Se-83



102

Incident Energy (MeV)

34-Se-83

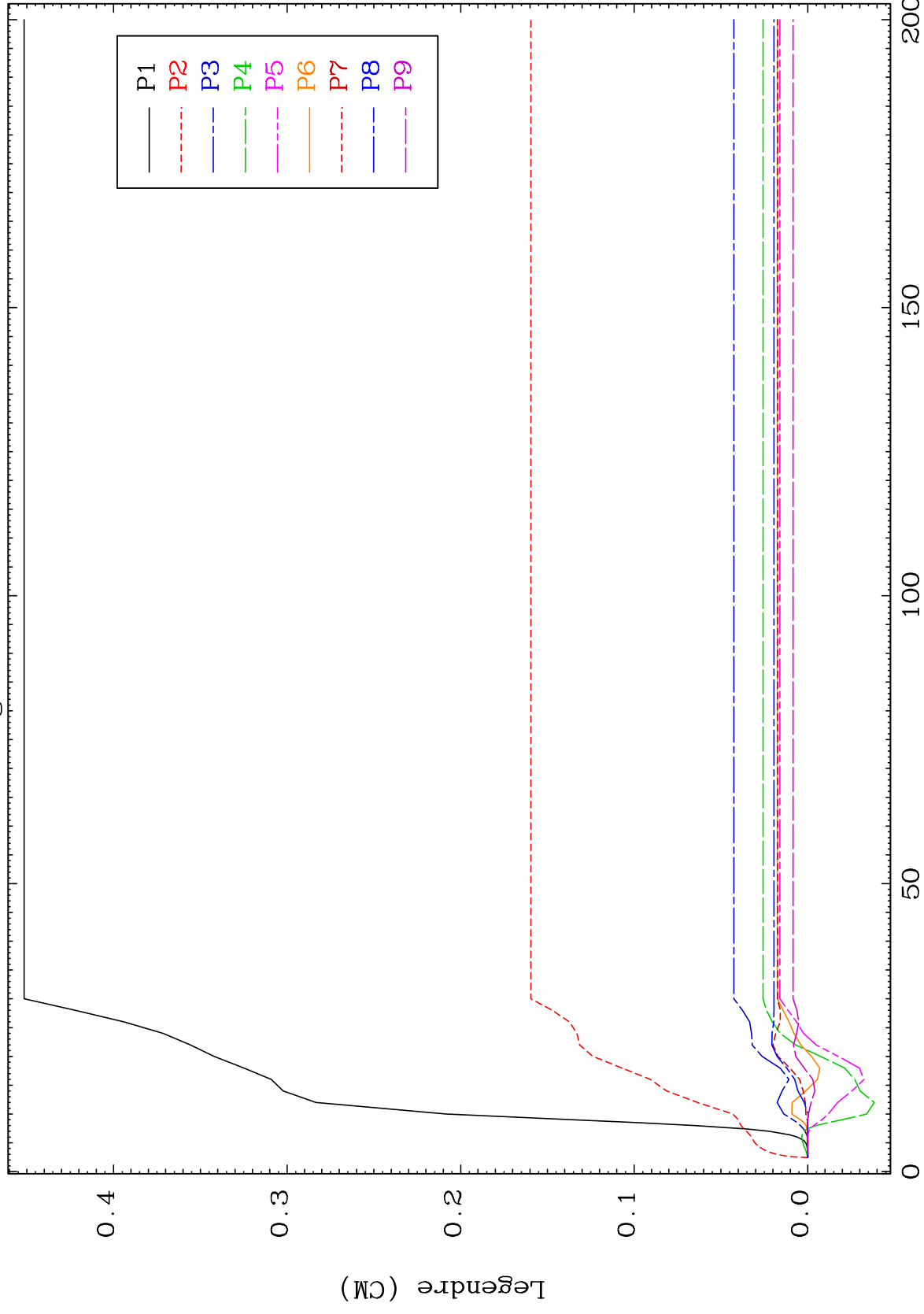




MAT 3452

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

34-Se-83



104

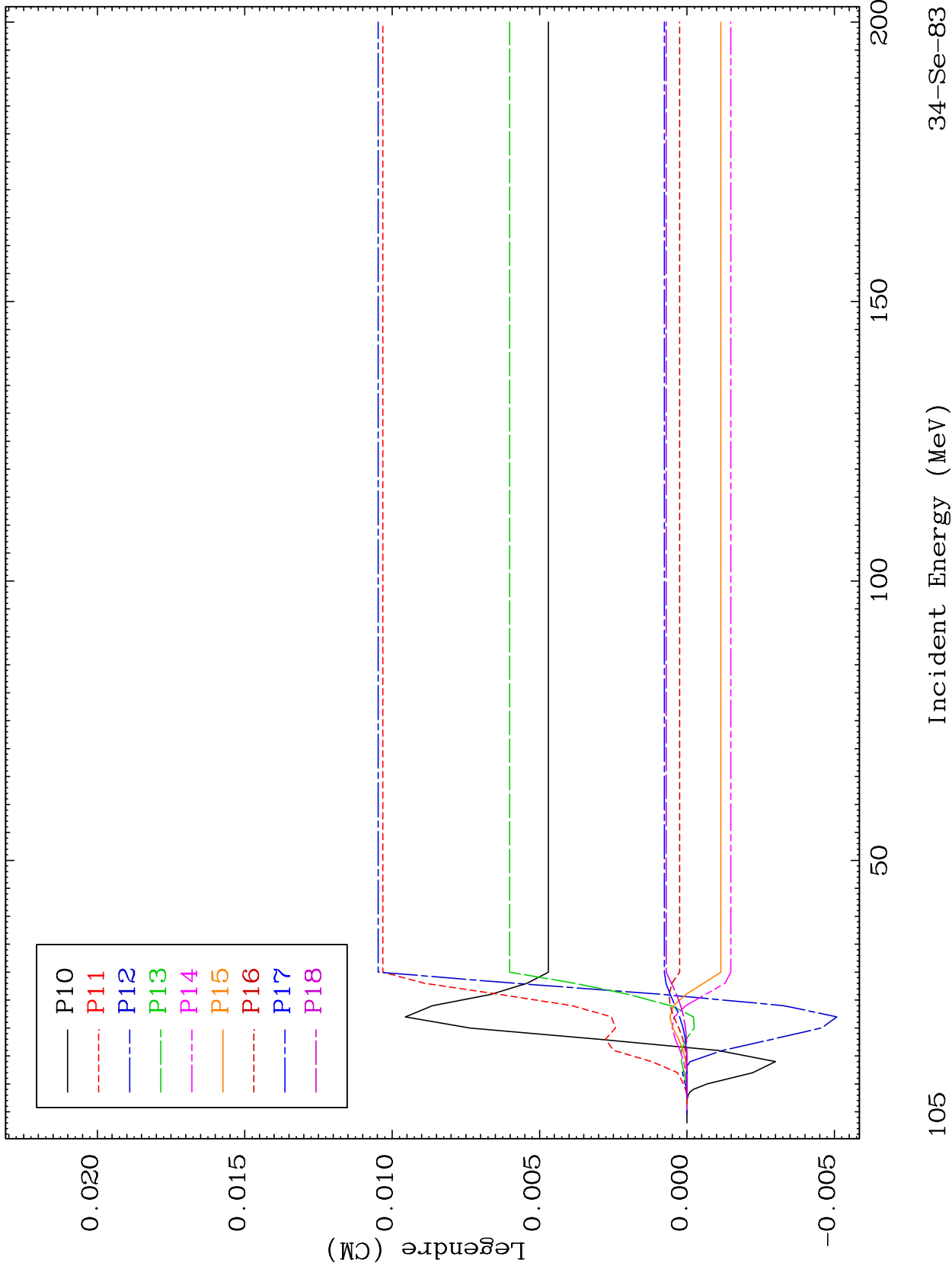
Incident Energy (MeV)

34-Se-83

MAT 3452

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

34-Se-83



105

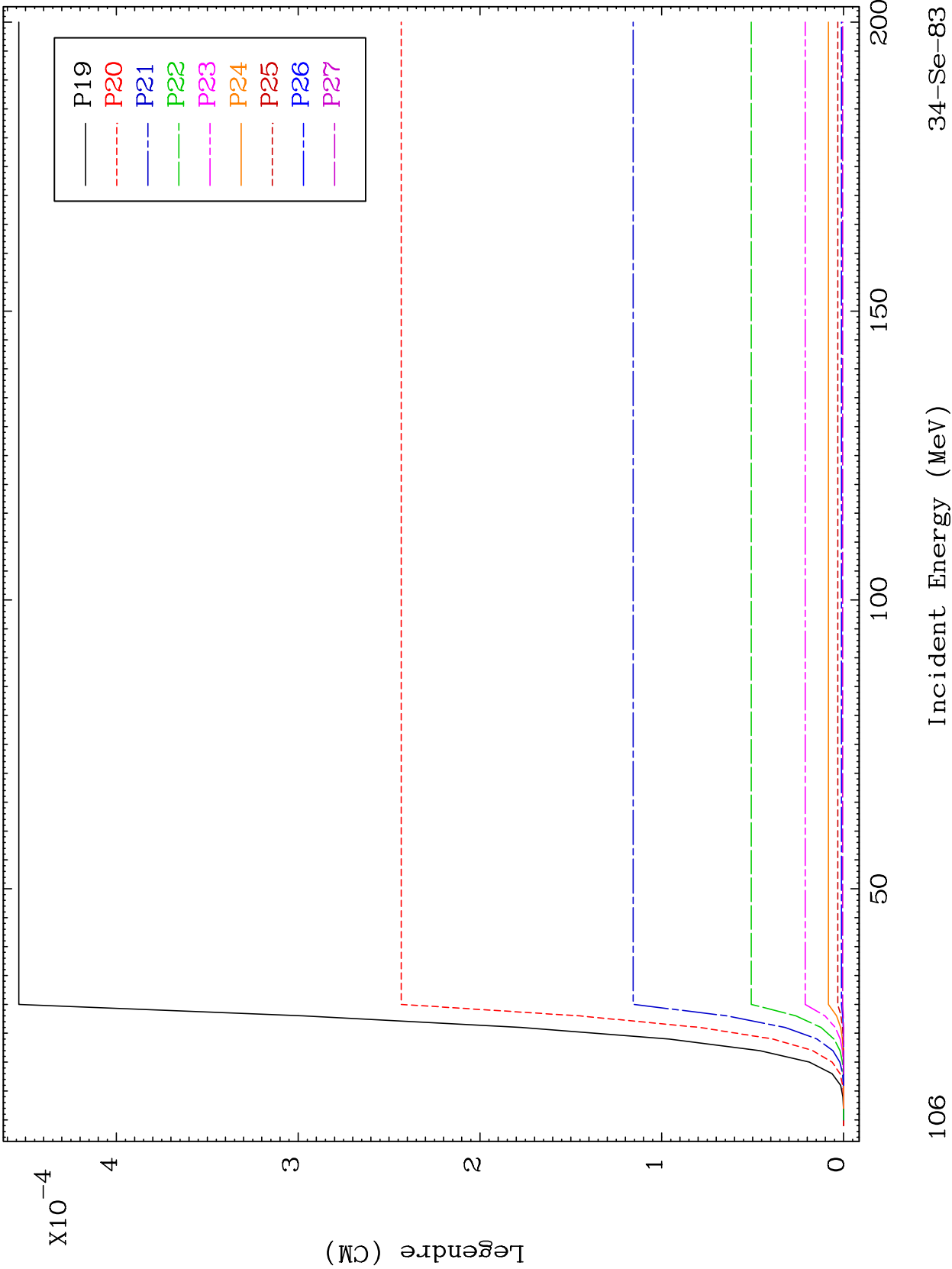
Incident Energy (MeV)

34-Se-83

MAT 3452

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

34-Se-83



106

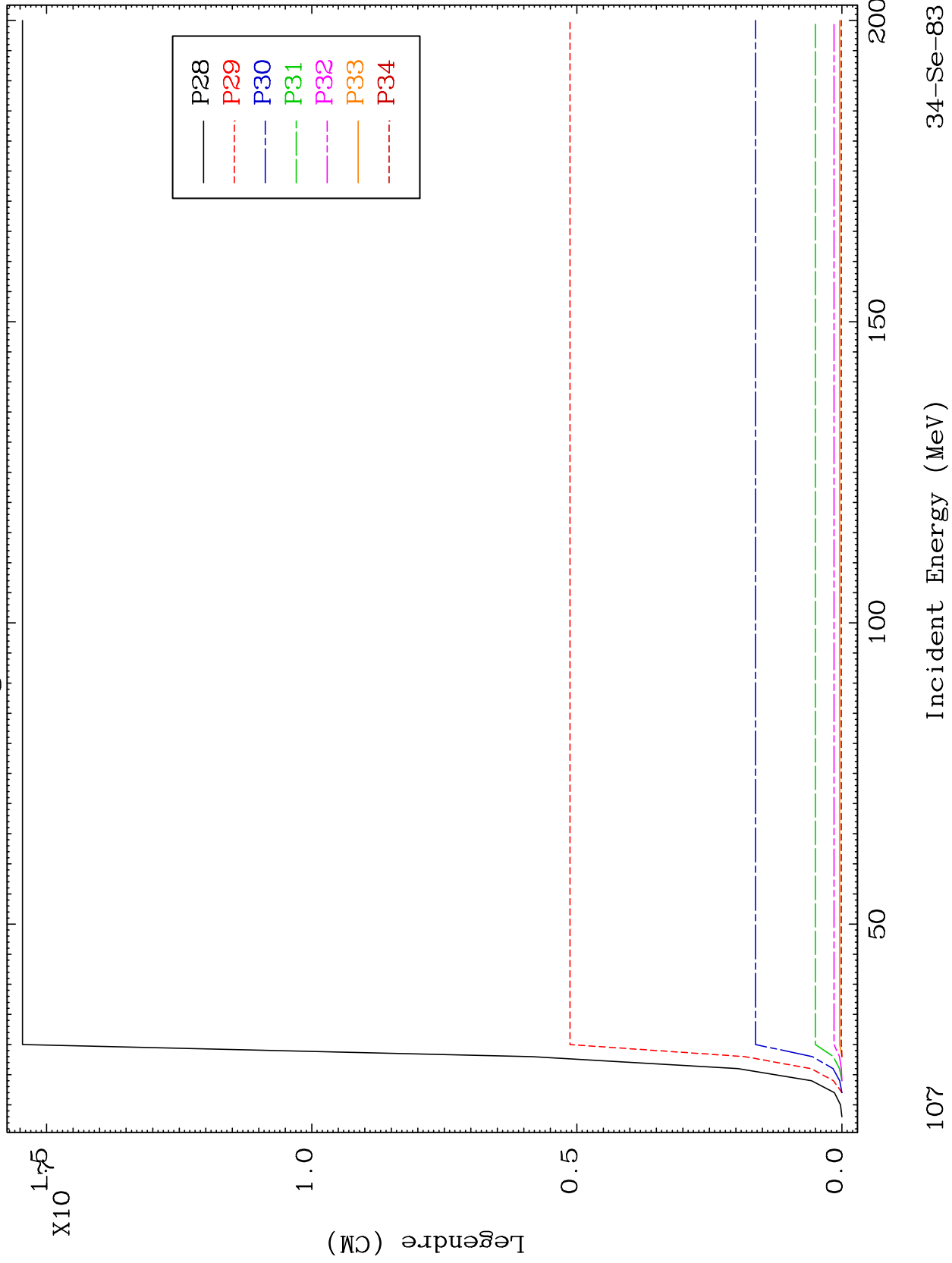
Incident Energy (MeV)

34-Se-83

MAT 3452

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

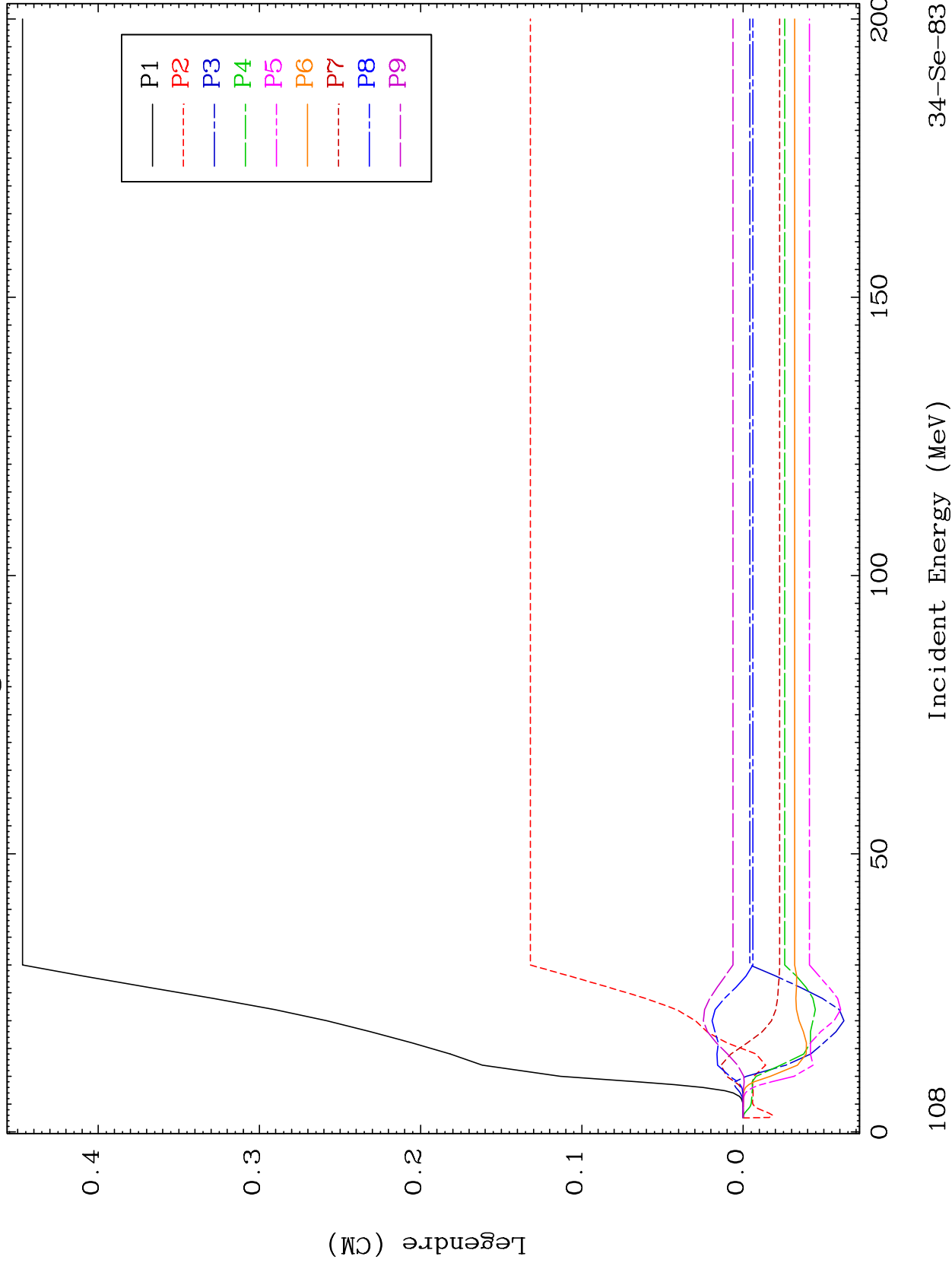
34-Se-83



MAT 3452

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

<sup>34</sup>Se-83

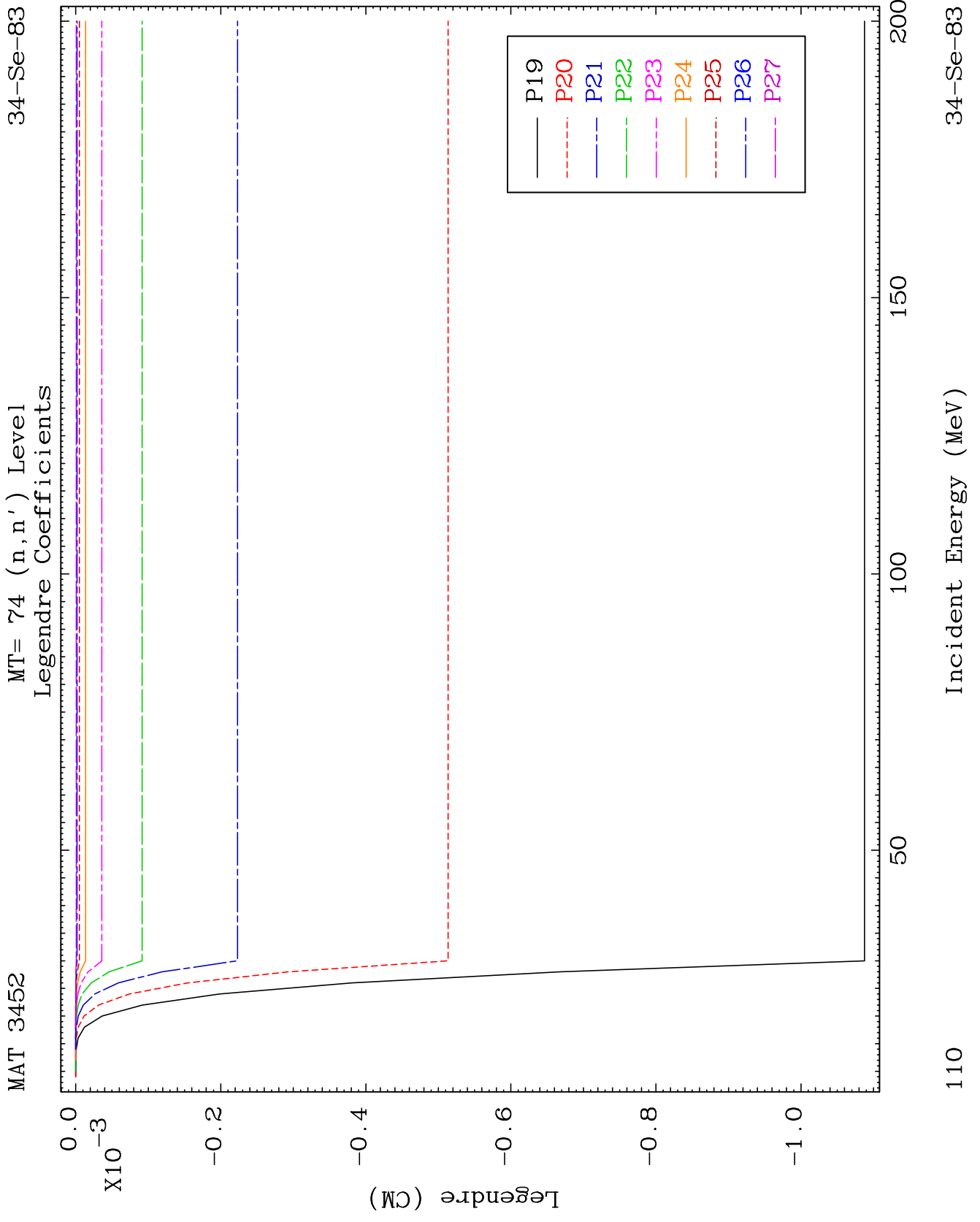


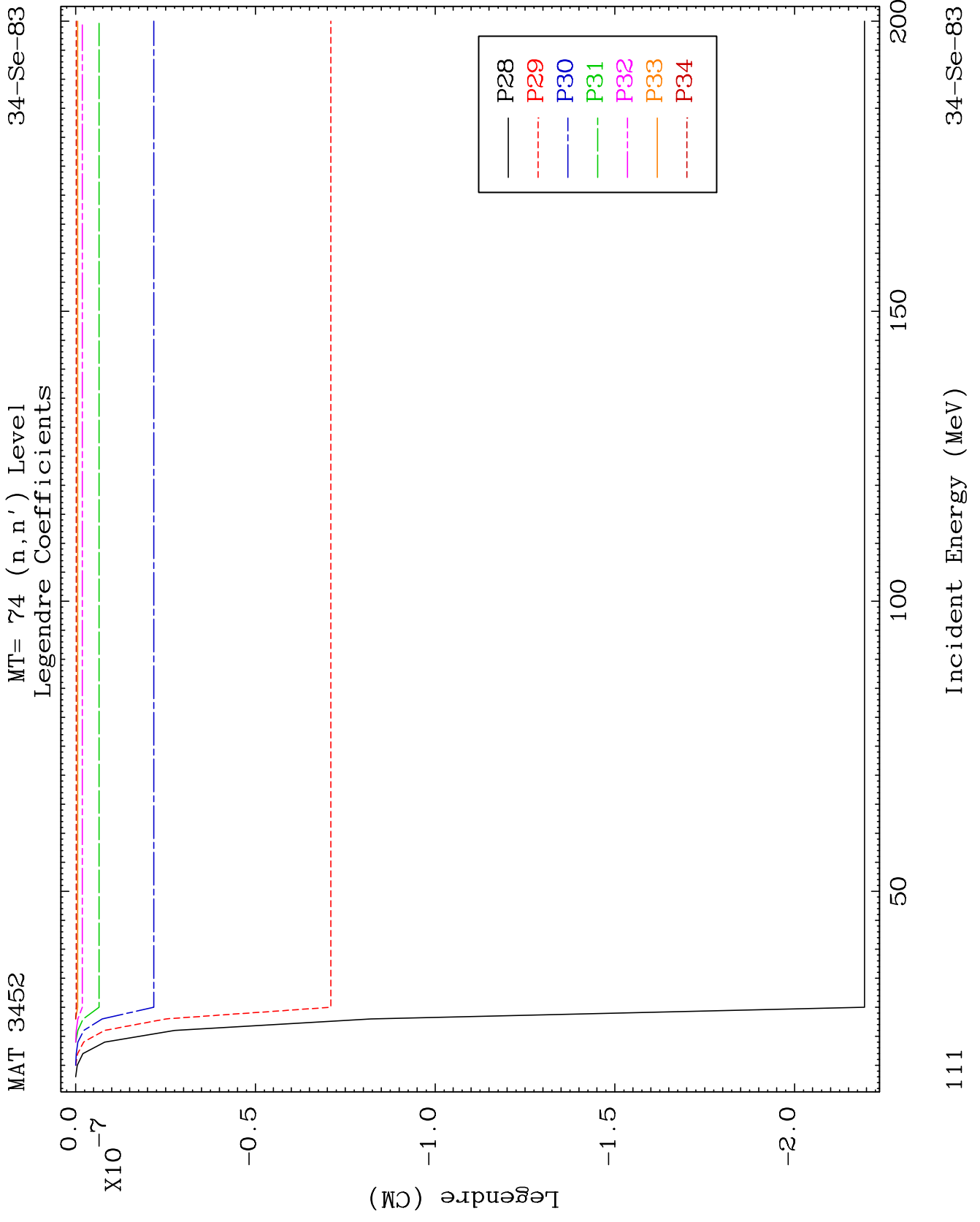
<sup>34</sup>Se-83

Incident Energy (MeV)

108





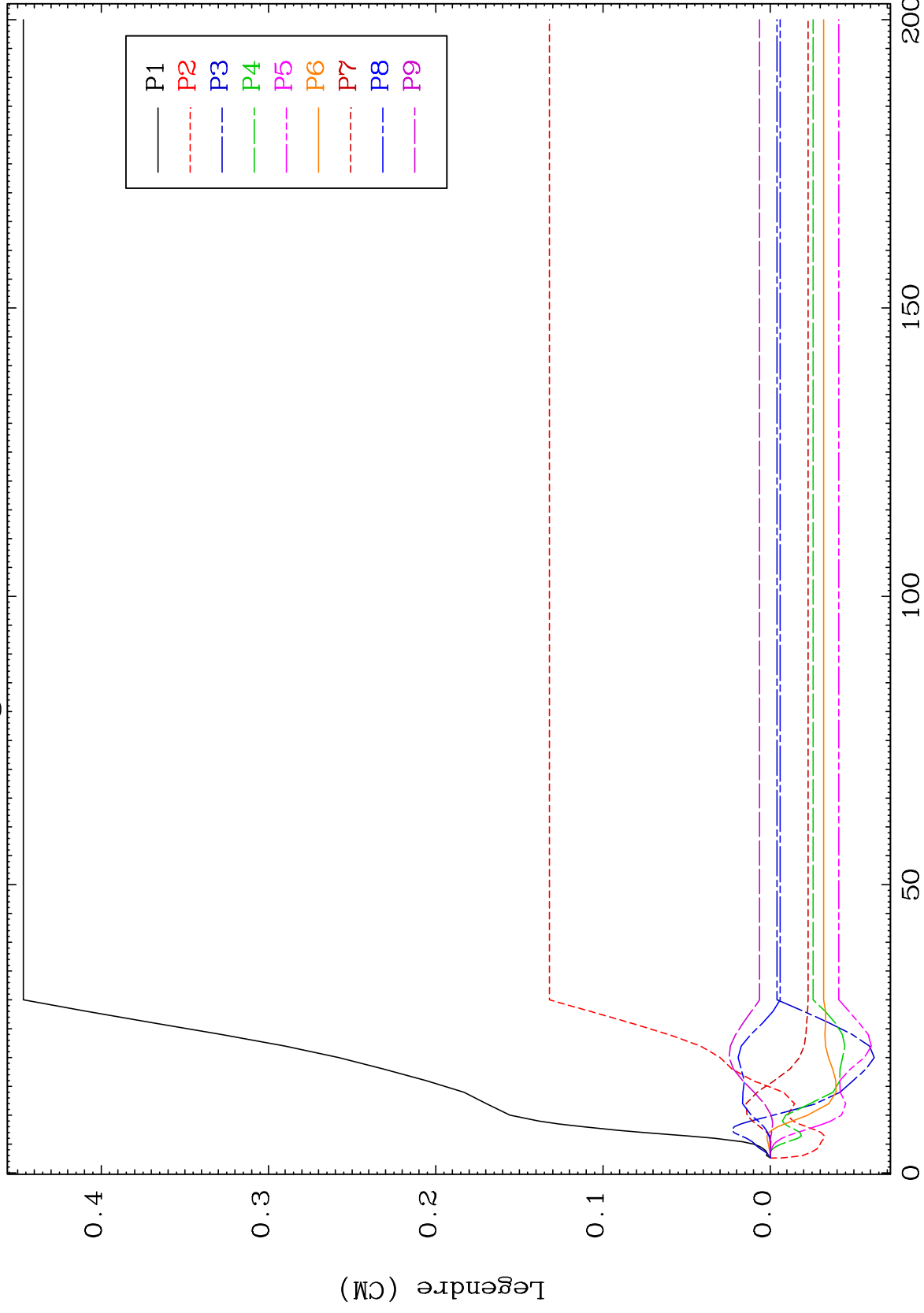




MAT 3452

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

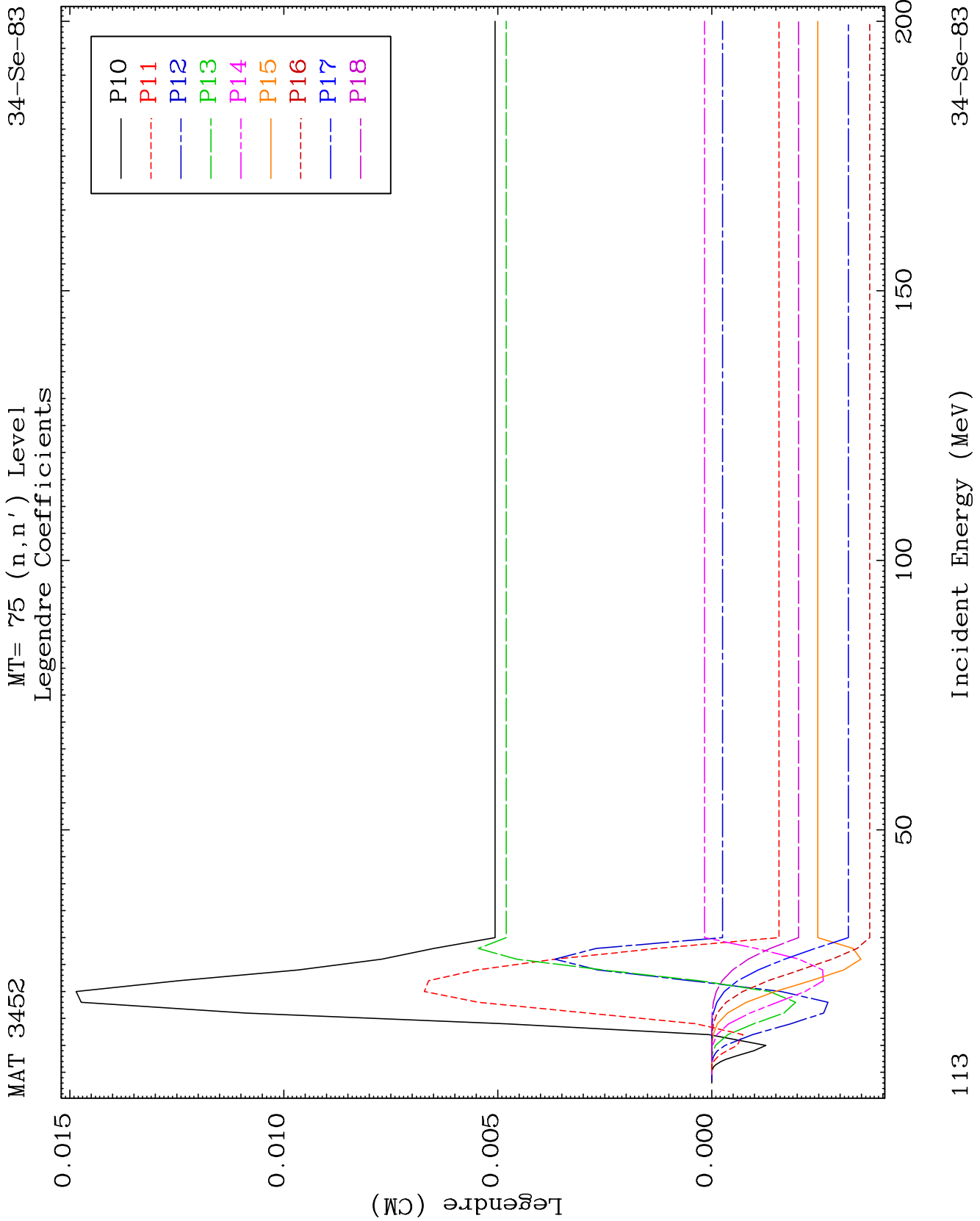
34-Se-83



112

Incident Energy (MeV)

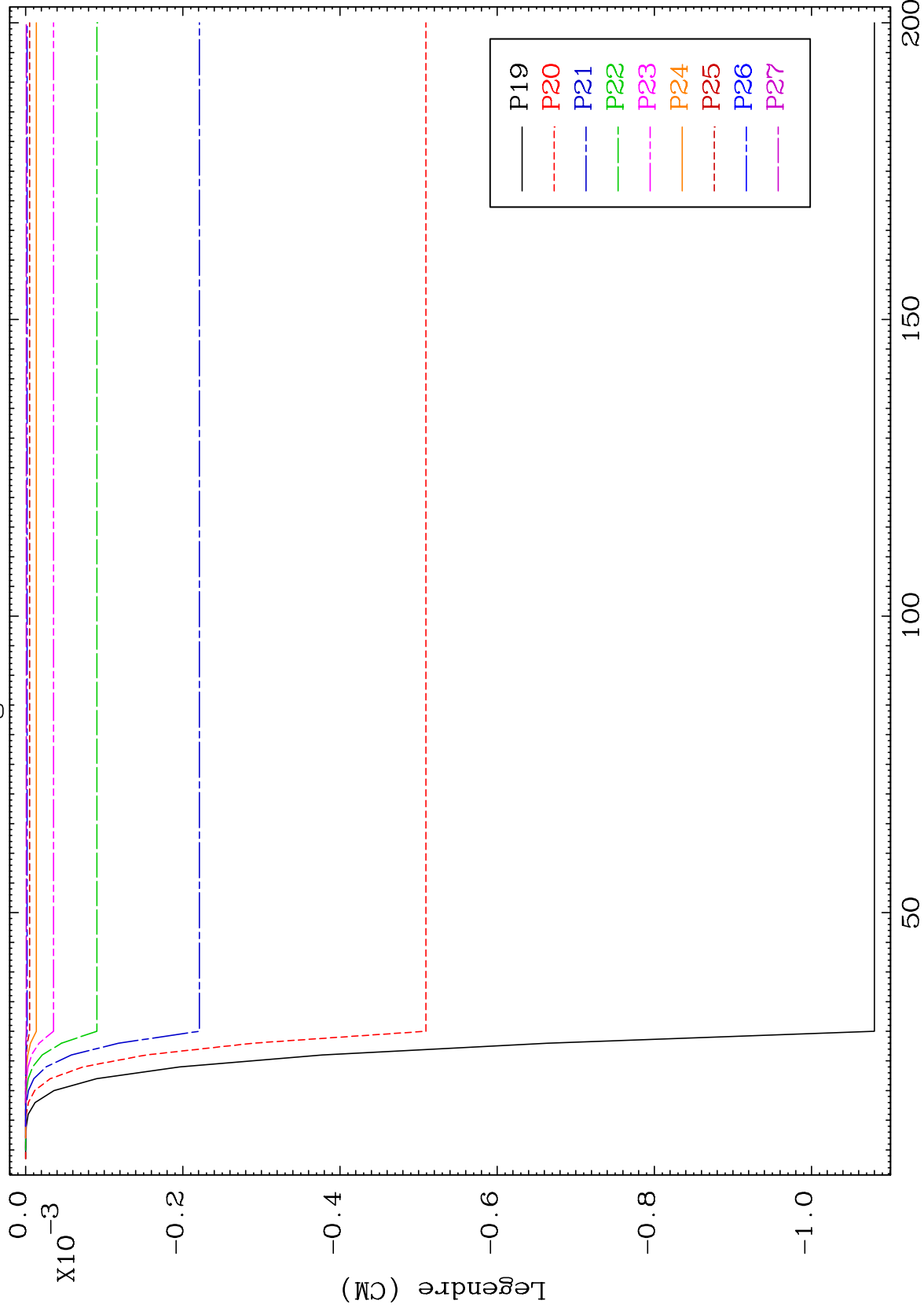
34-Se-83



MAT 3452

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

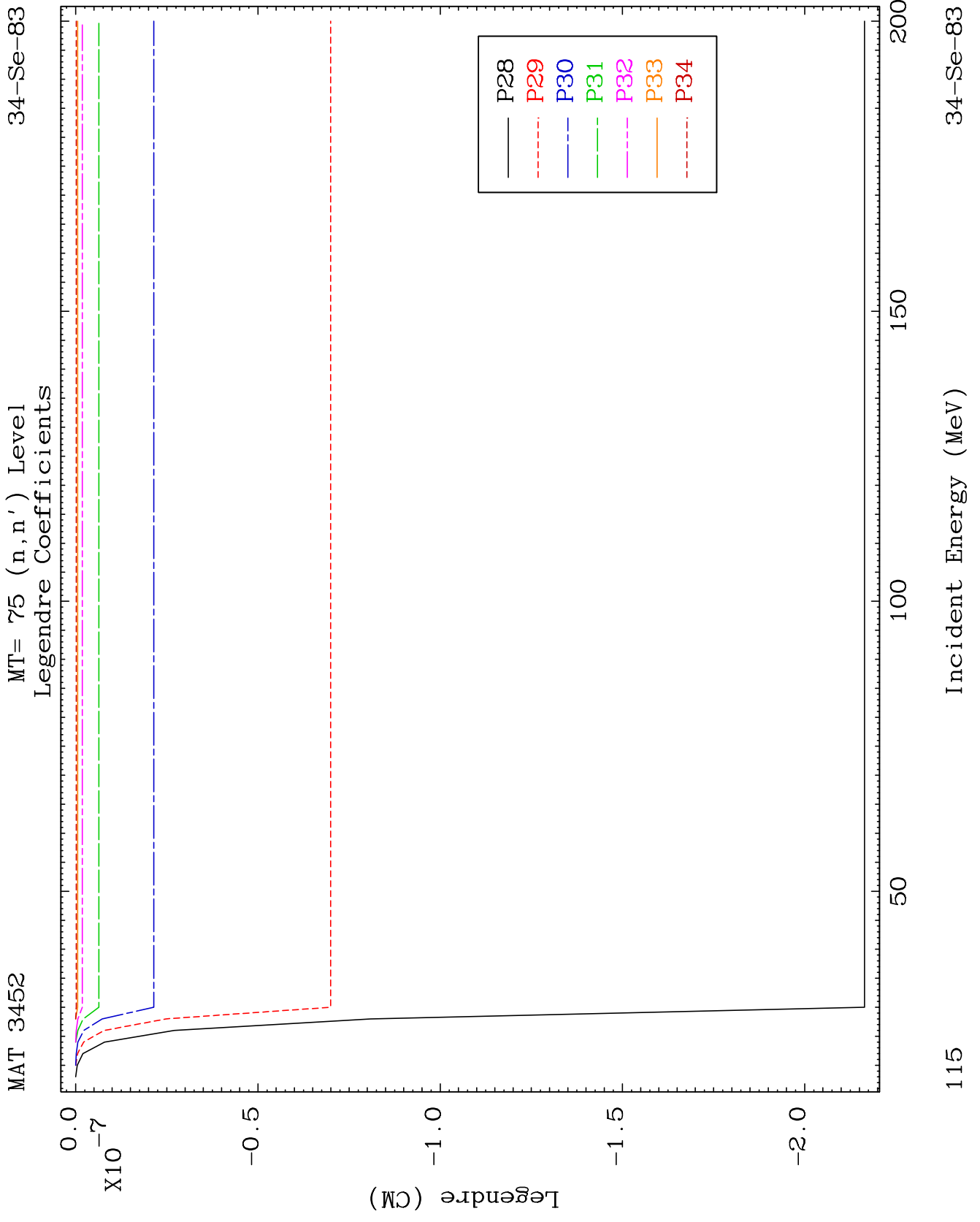
34-Se-83



114

Incident Energy (MeV)

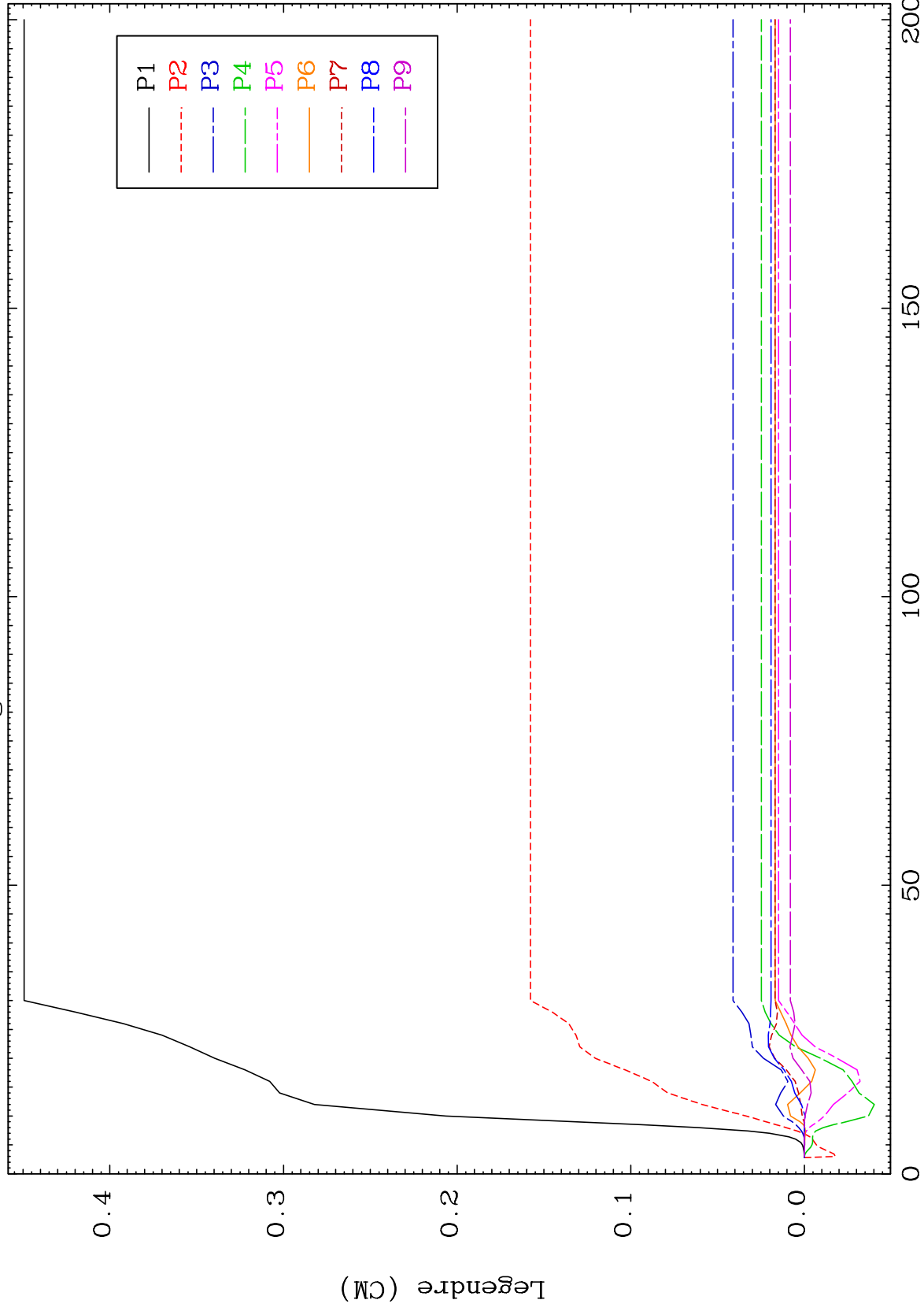
34-Se-83



MAT 3452

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

34-Se-83



116

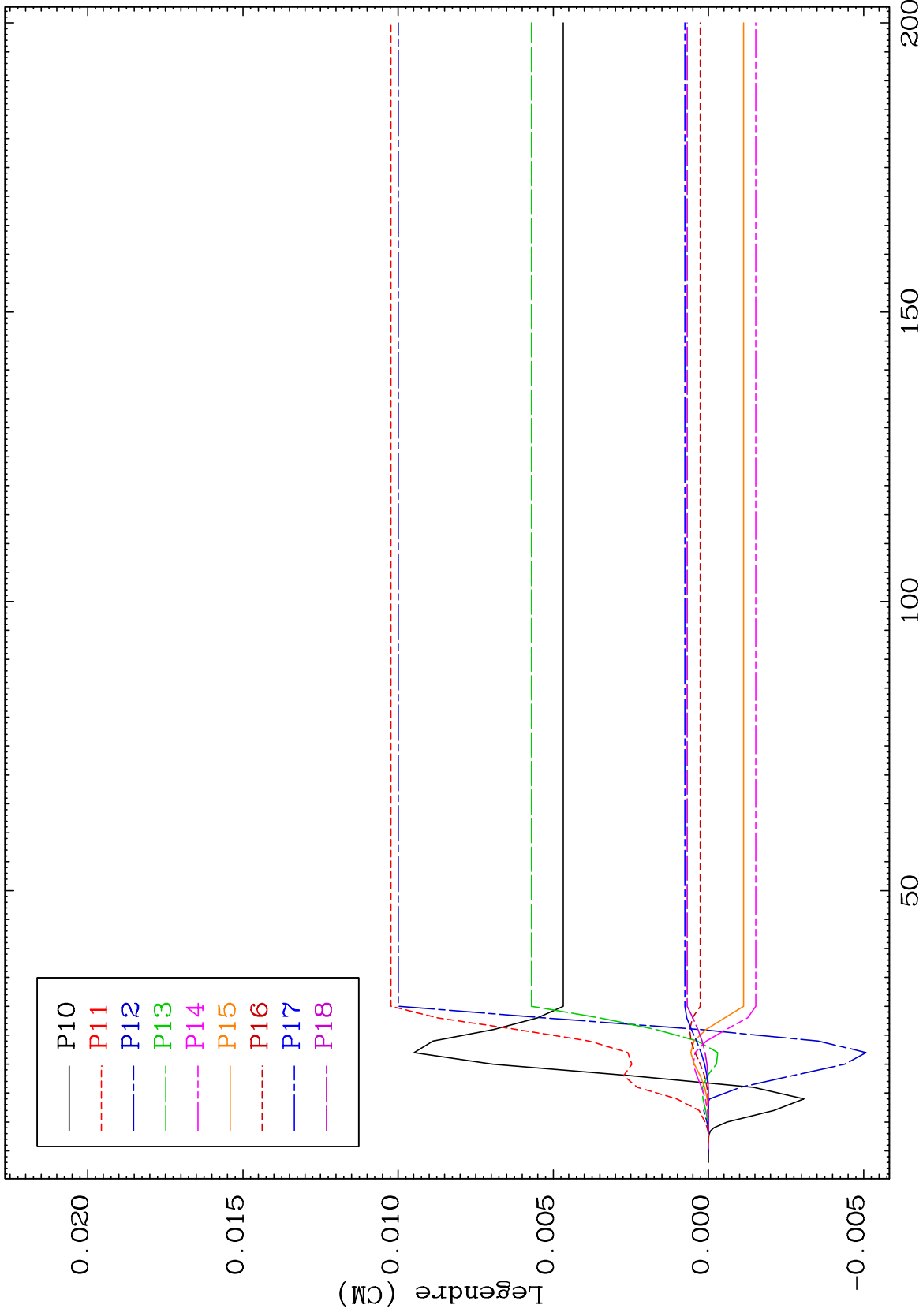
Incident Energy (MeV)

34-Se-83

MAT 3452

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

34-Se-83



117

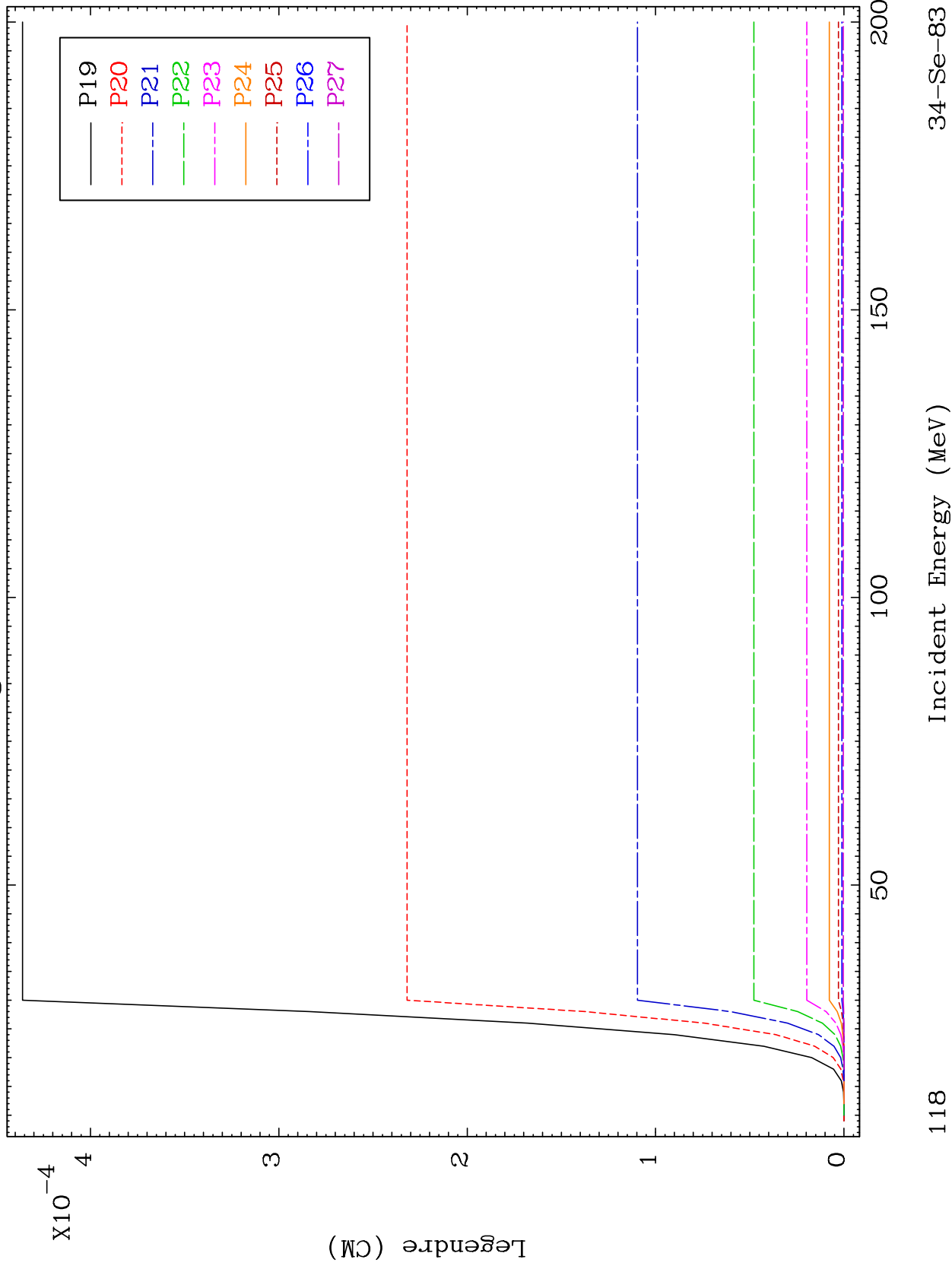
Incident Energy (MeV)

34-Se-83

MAT 3452

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

34-Se-83



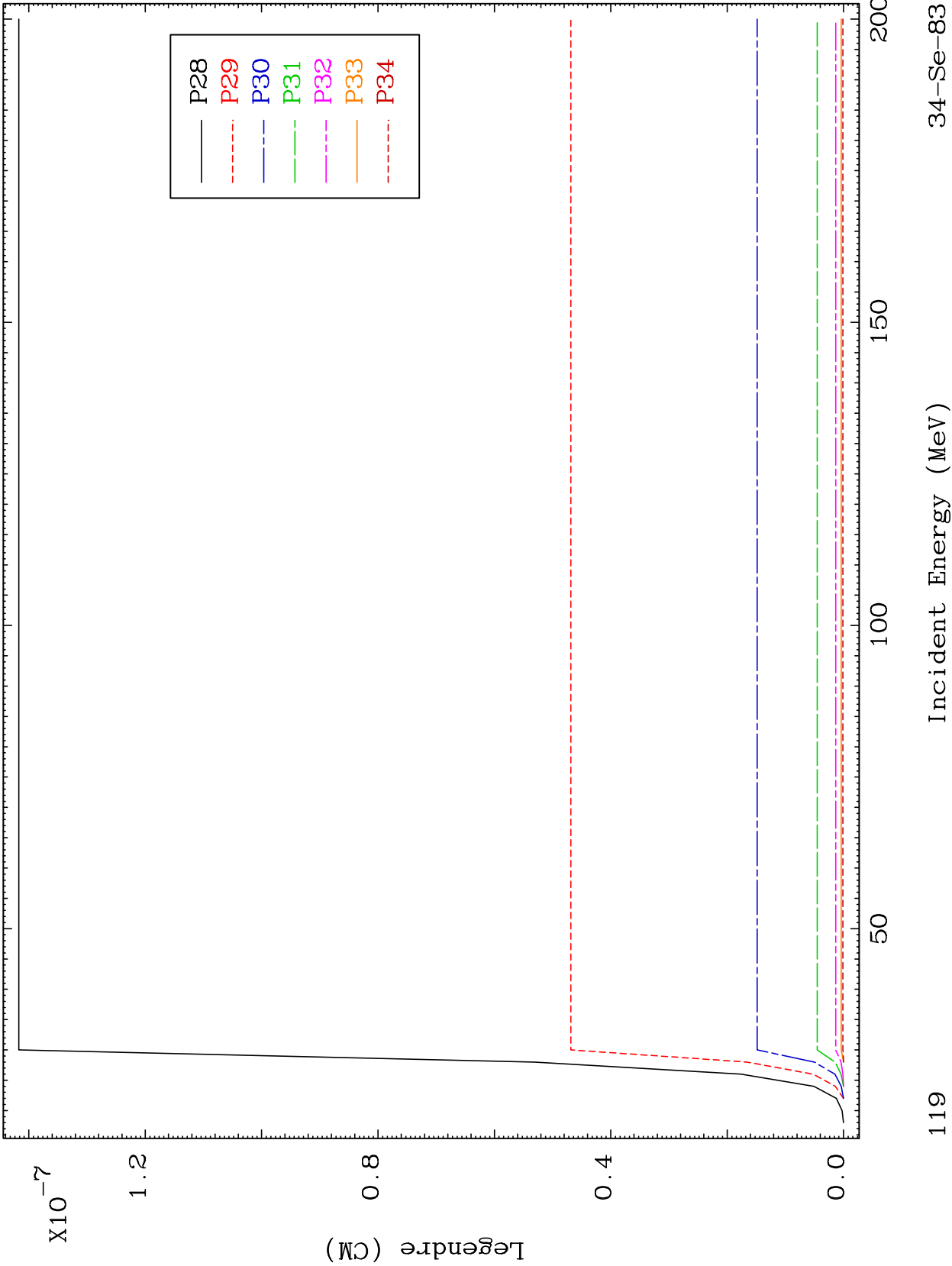
118

34-Se-83

MAT 3452

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

34-Se-83



119

Incident Energy (MeV)

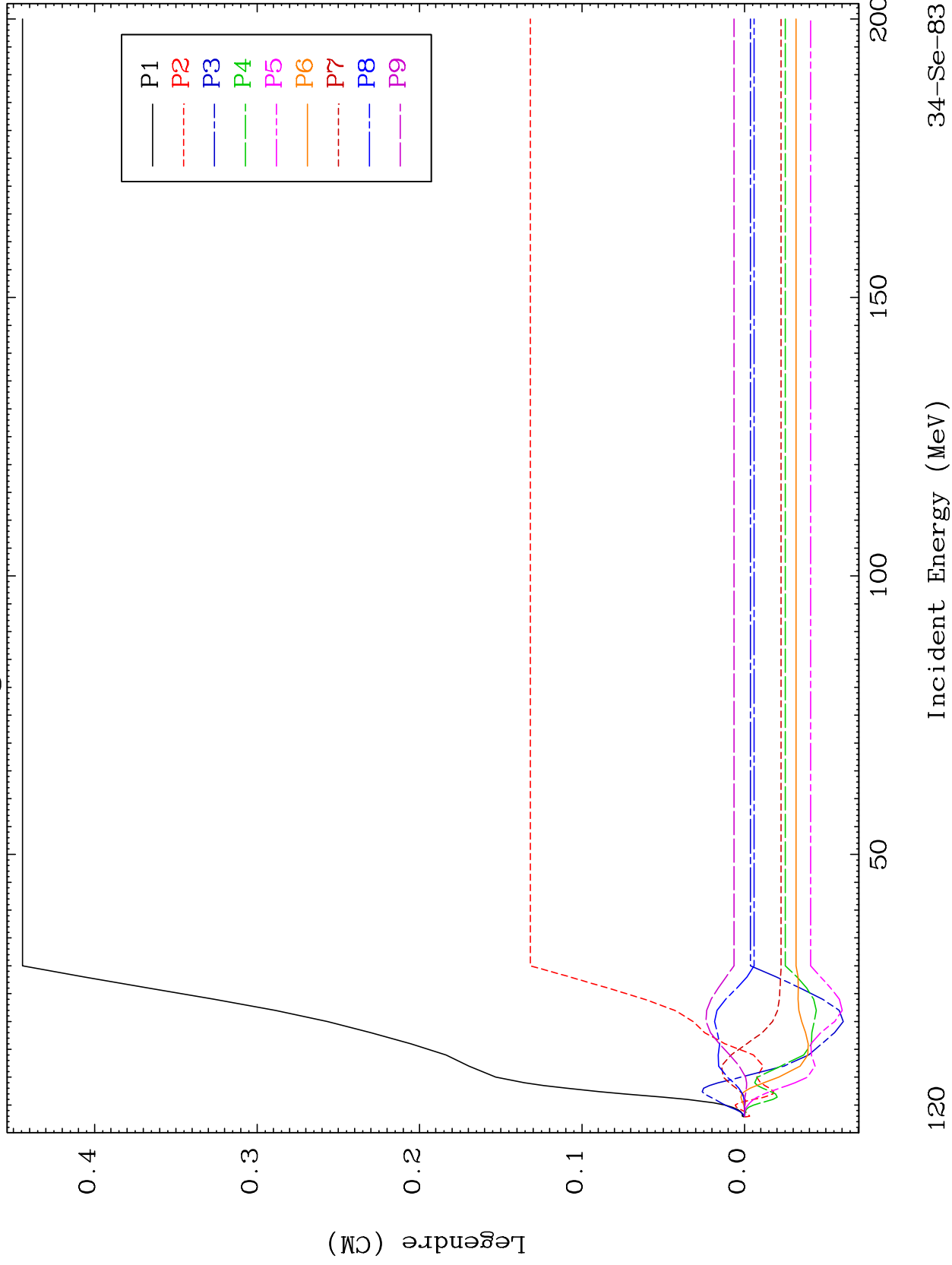
34-Se-83



MAT 3452

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

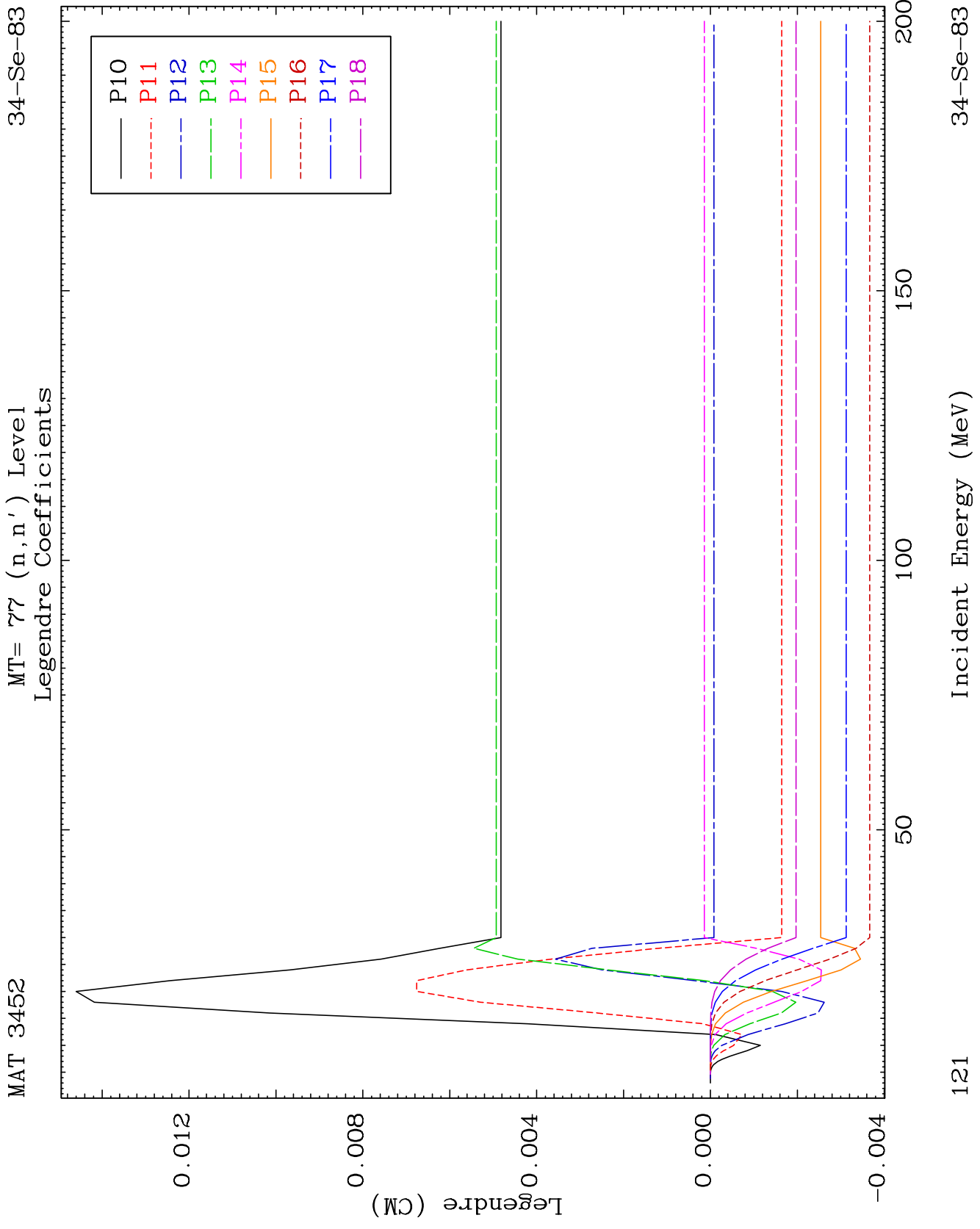
34-Se-83



34-Se-83

Incident Energy (MeV)

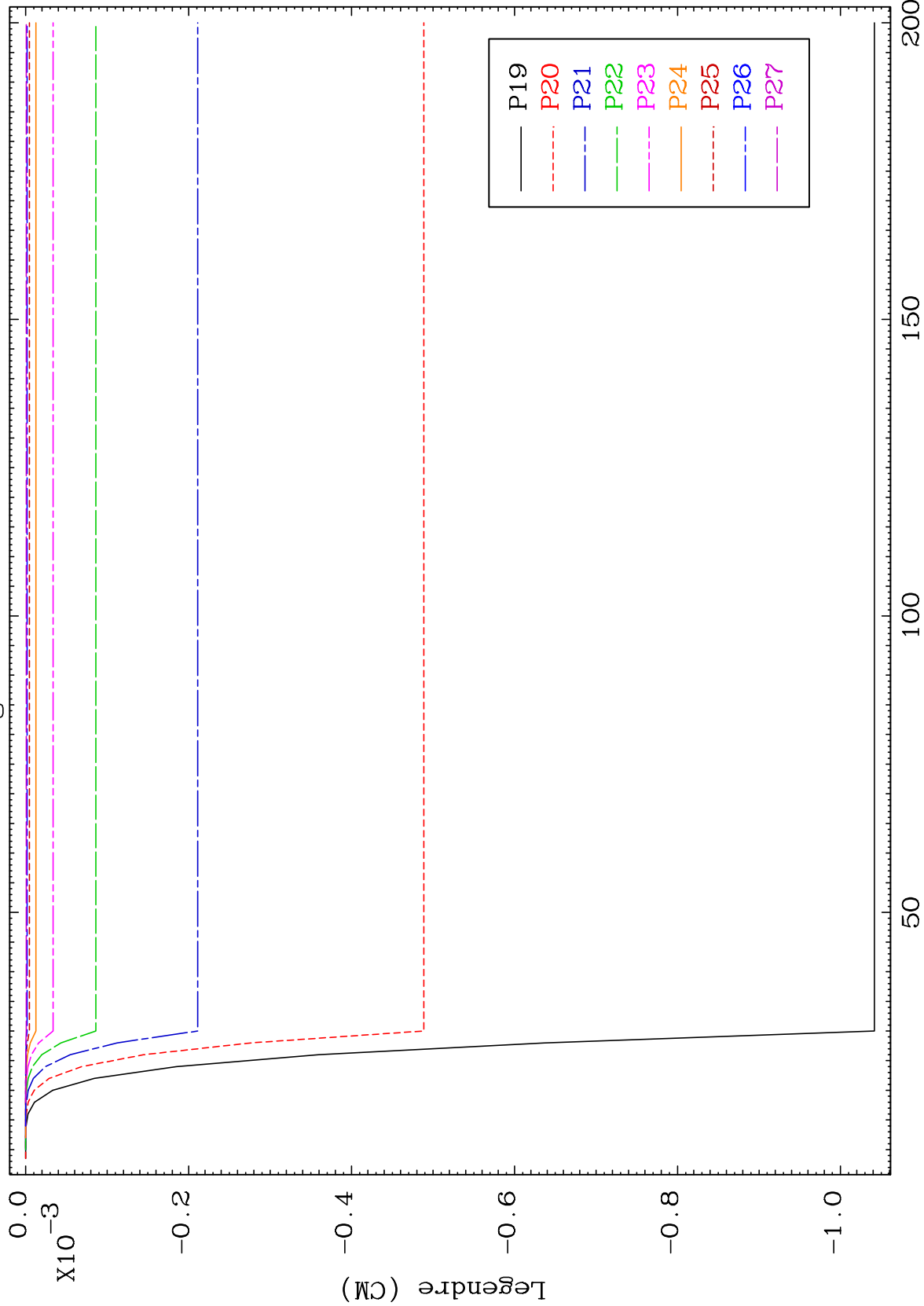
120



MAT 3452

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

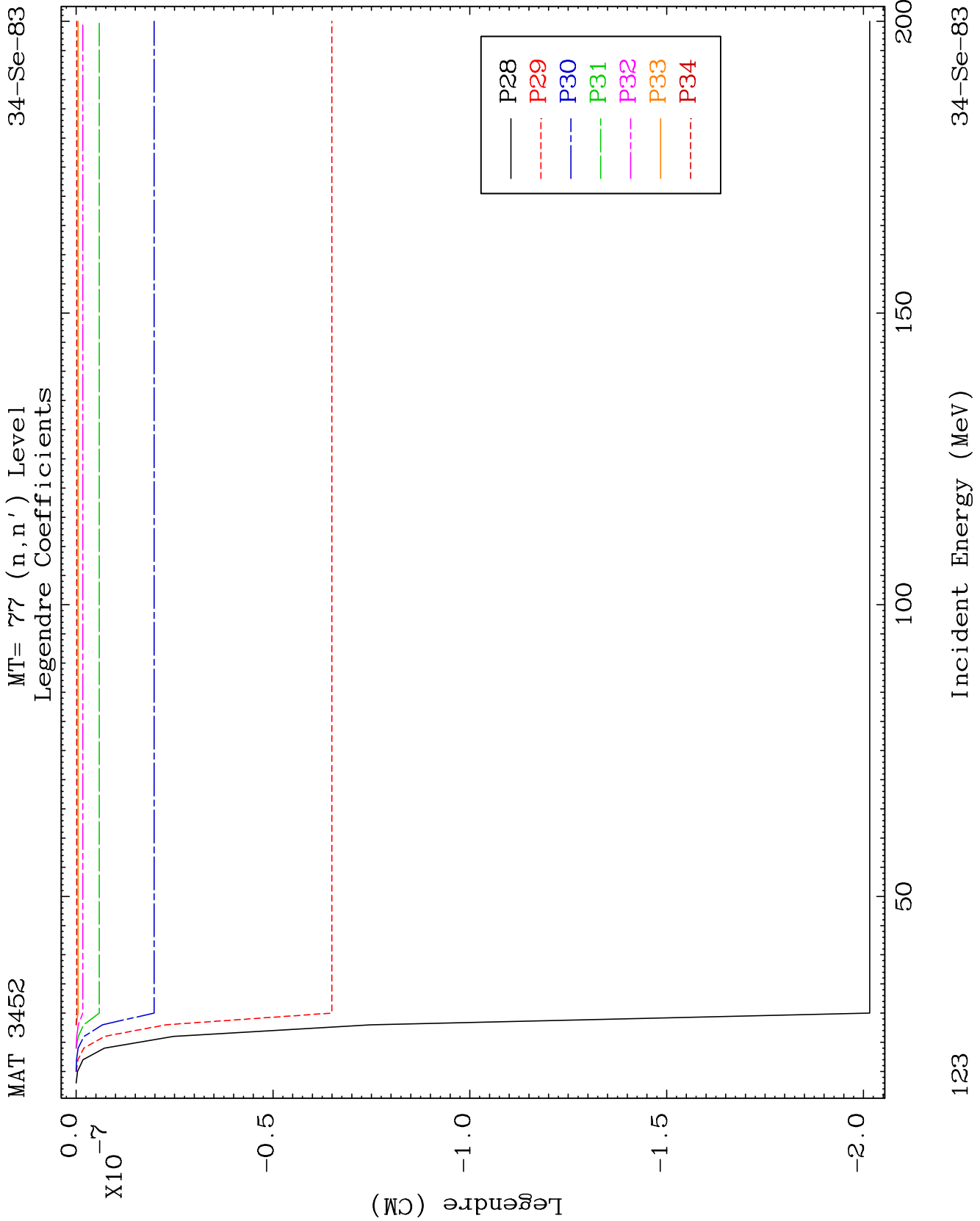
34-Se-83



122

Incident Energy (MeV)

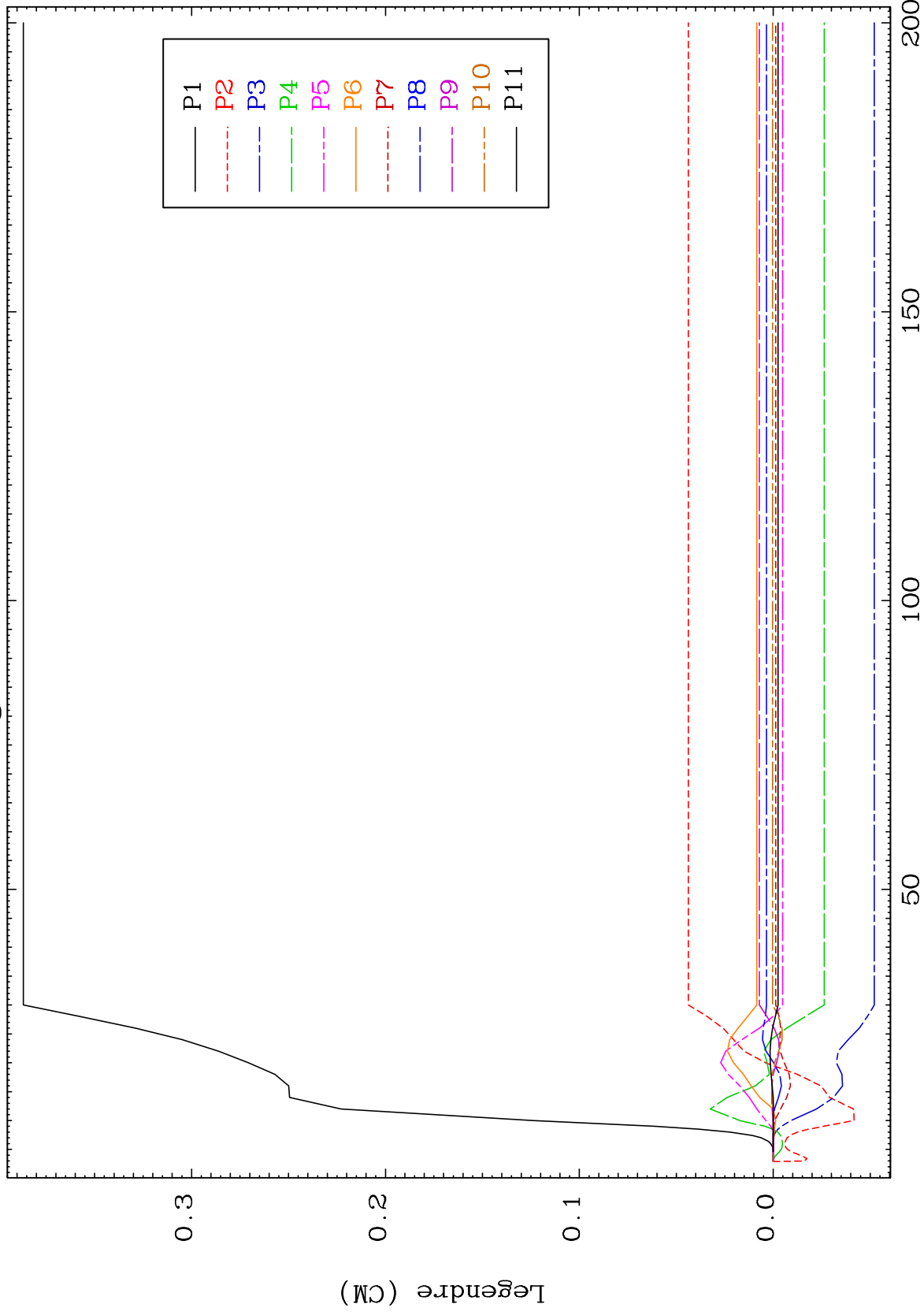
34-Se-83



MAT 3452

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

34-Se-83



124

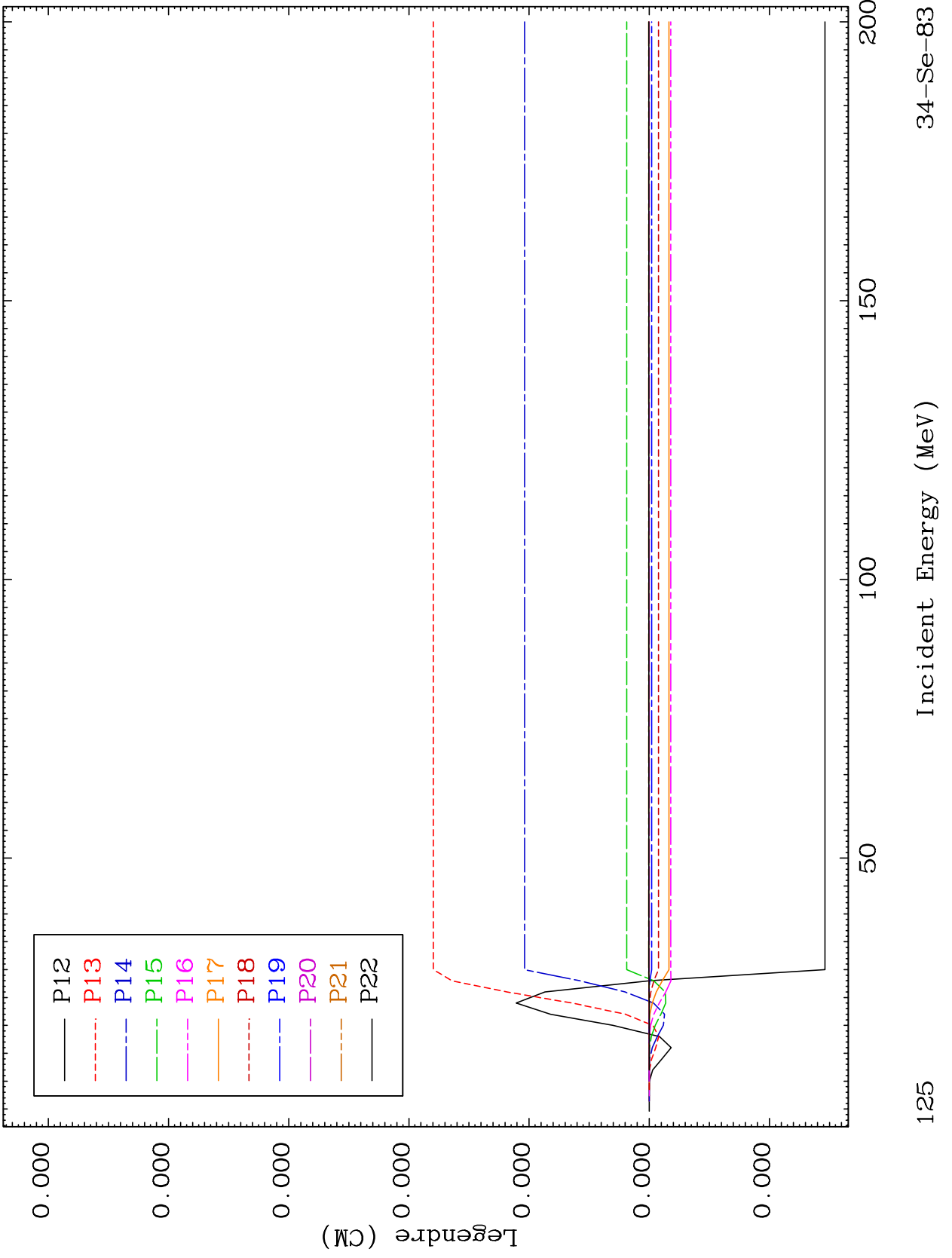
Incident Energy (MeV)

34-Se-83

MAT 3452

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

34-Se-83



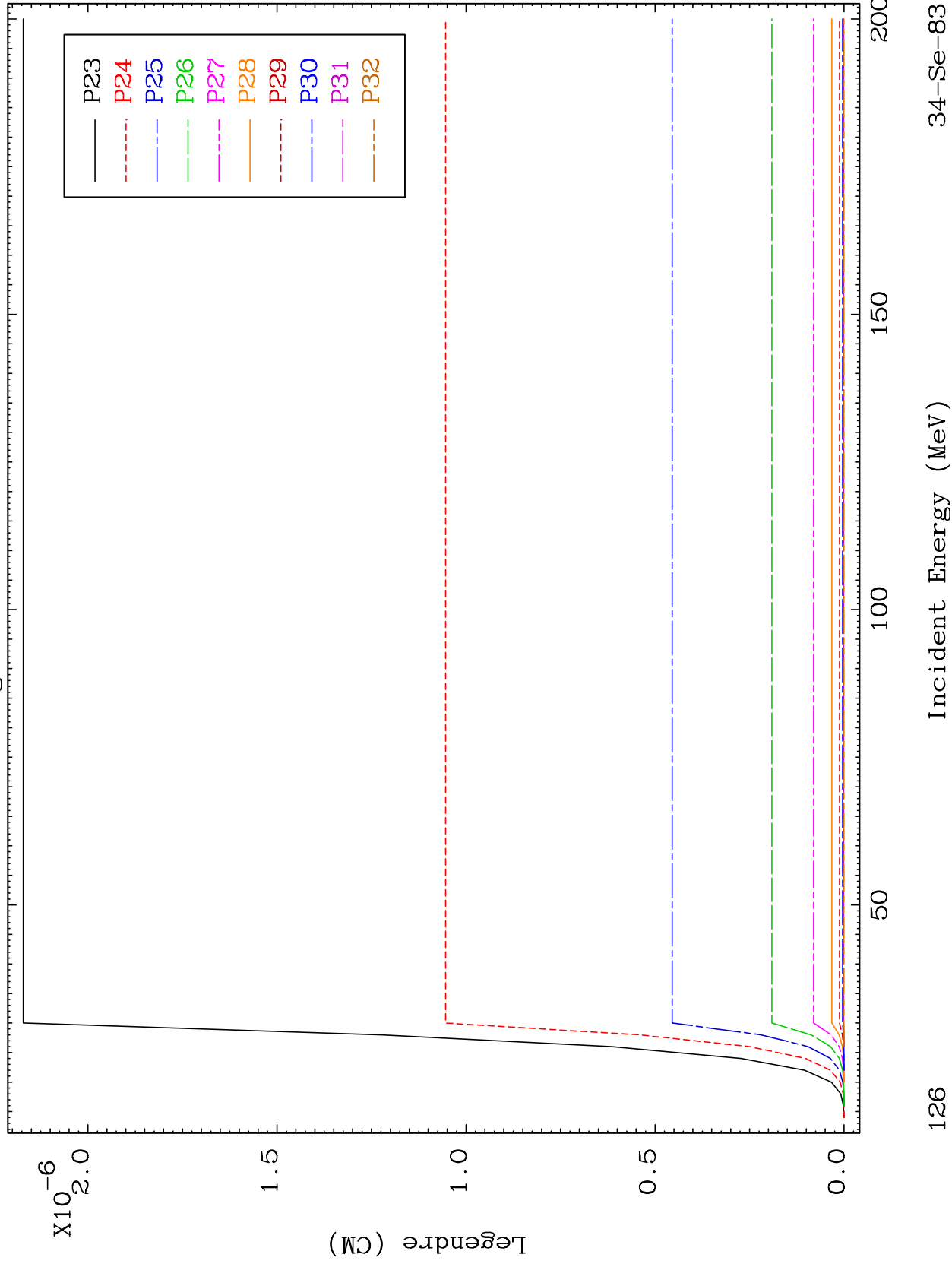
125

34-Se-83

MAT 3452

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

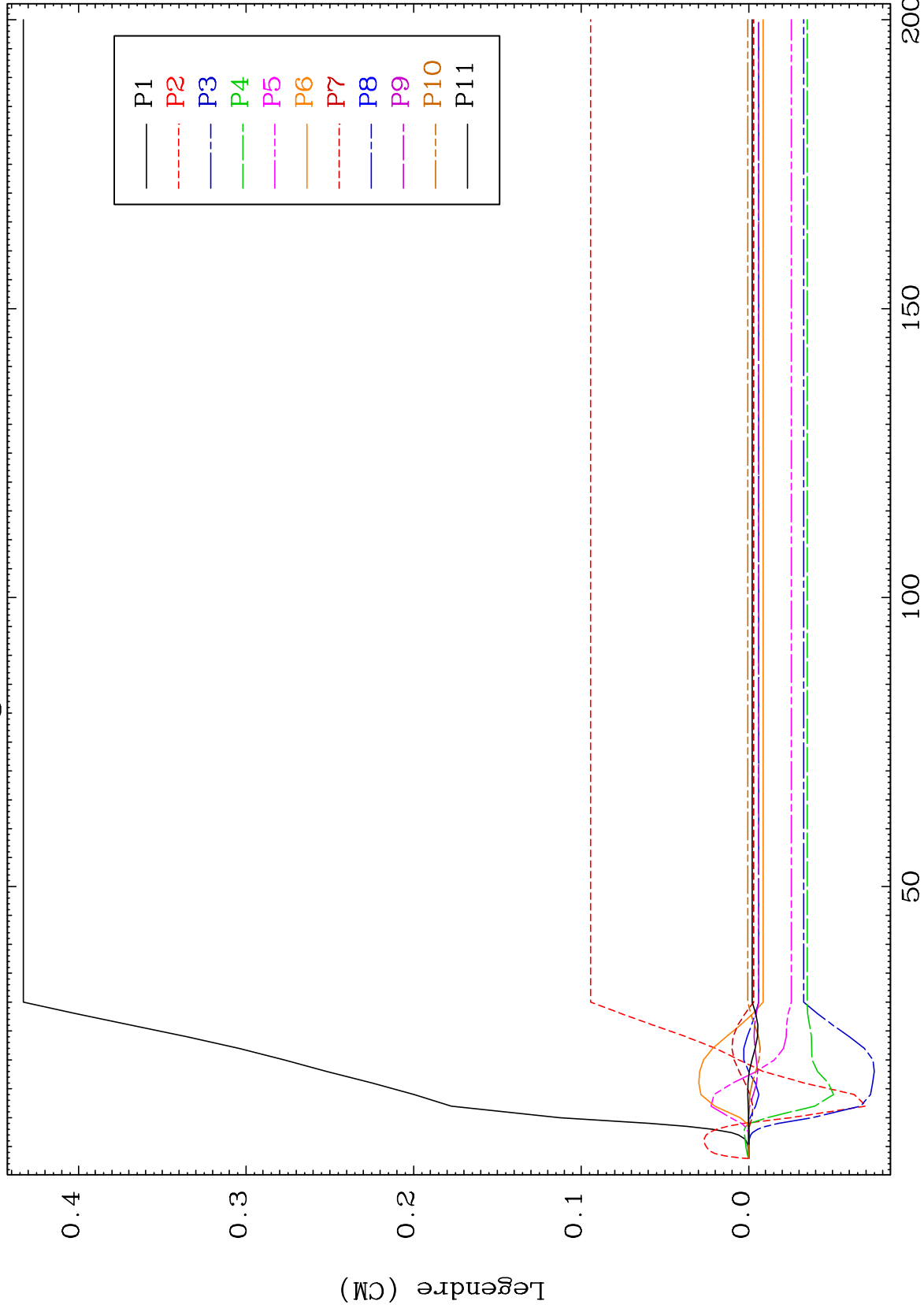
34-Se-83



MAT 3452

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

34-Se-83



127

Incident Energy (MeV)

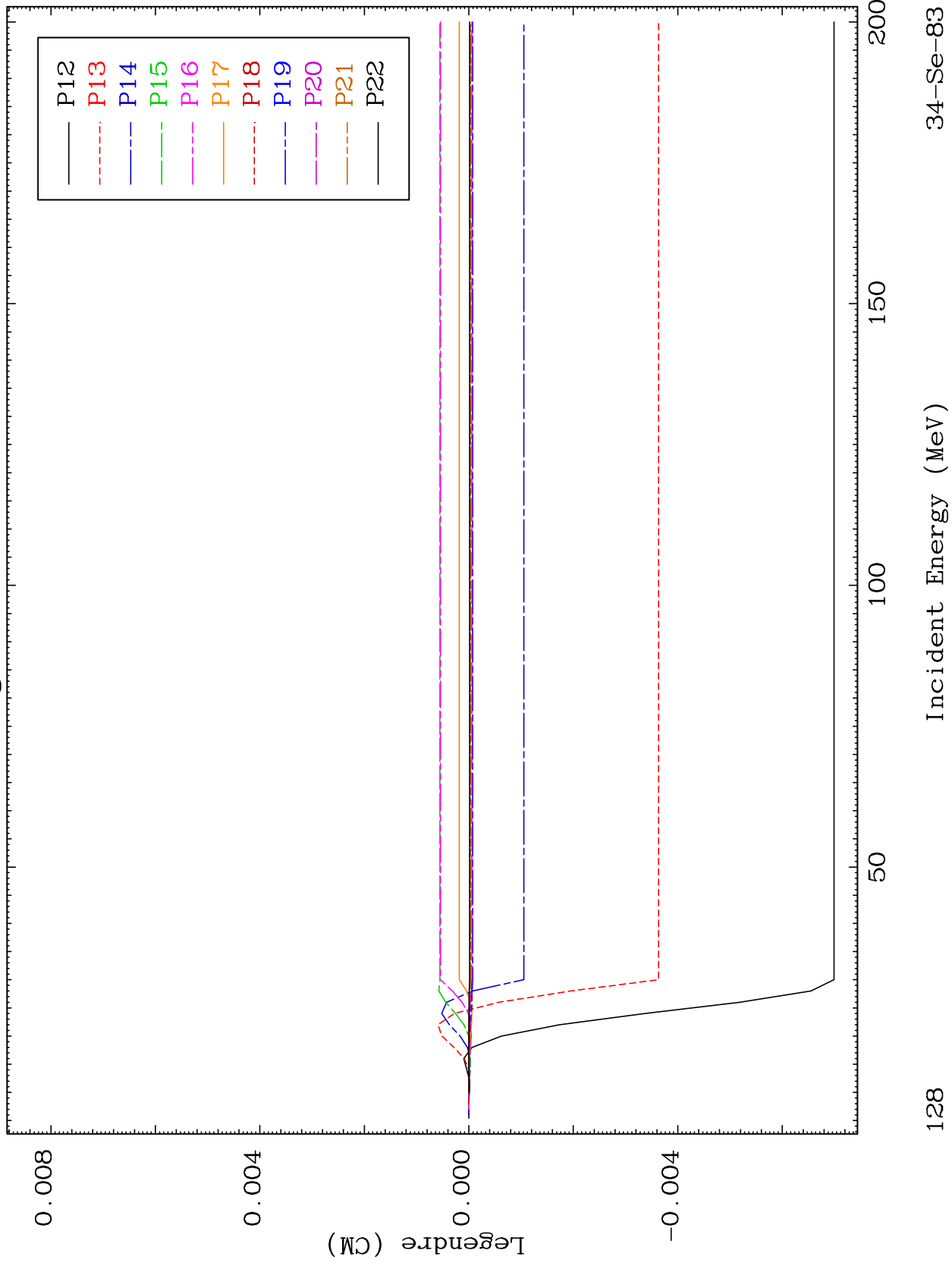
34-Se-83



MAT 3452

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

34-Se-83



128

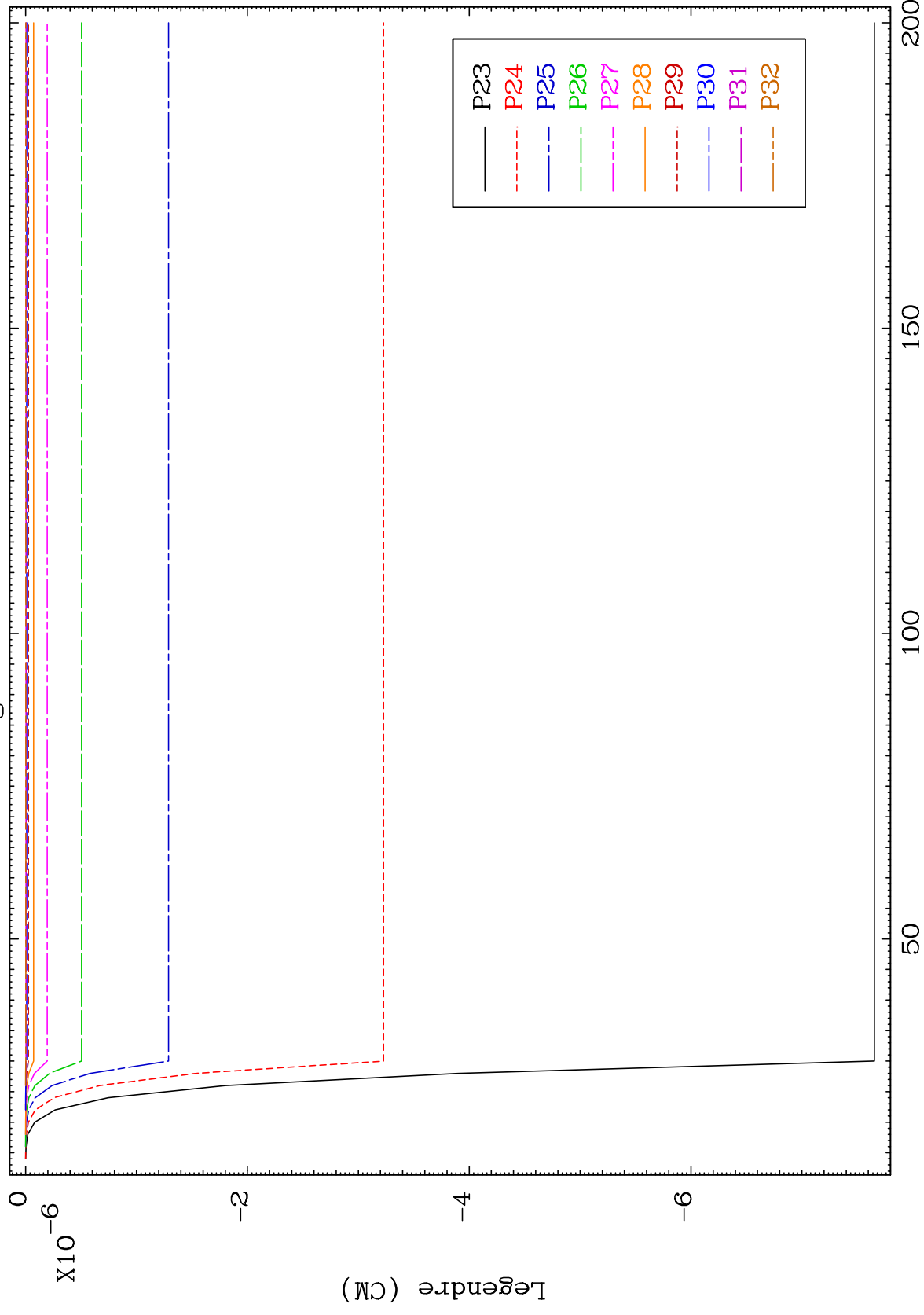
Incident Energy (MeV)

34-Se-83

MAT 3452

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

34-Se-83



129

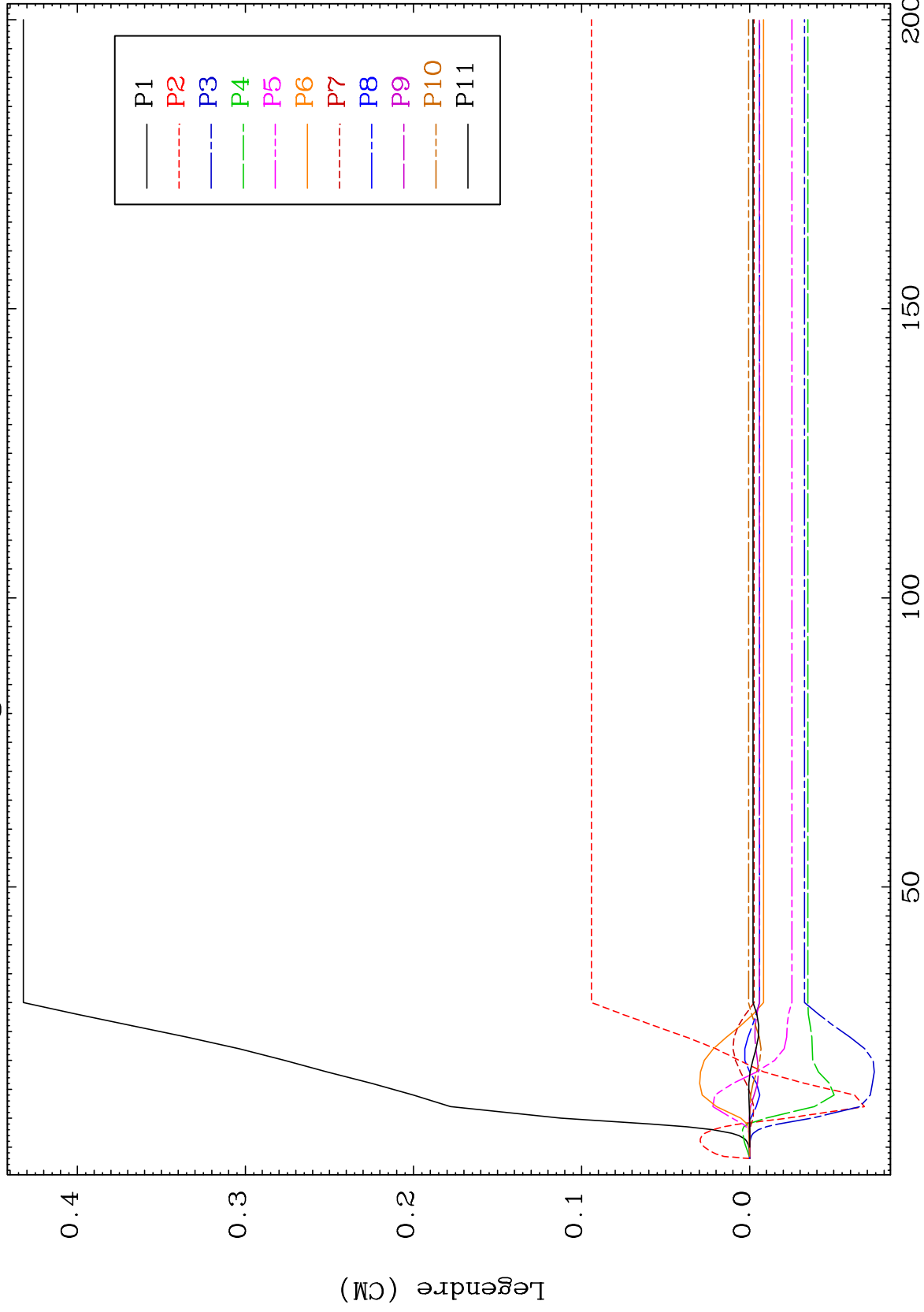
Incident Energy (MeV)

34-Se-83

MAT 3452

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

34-Se-83



130

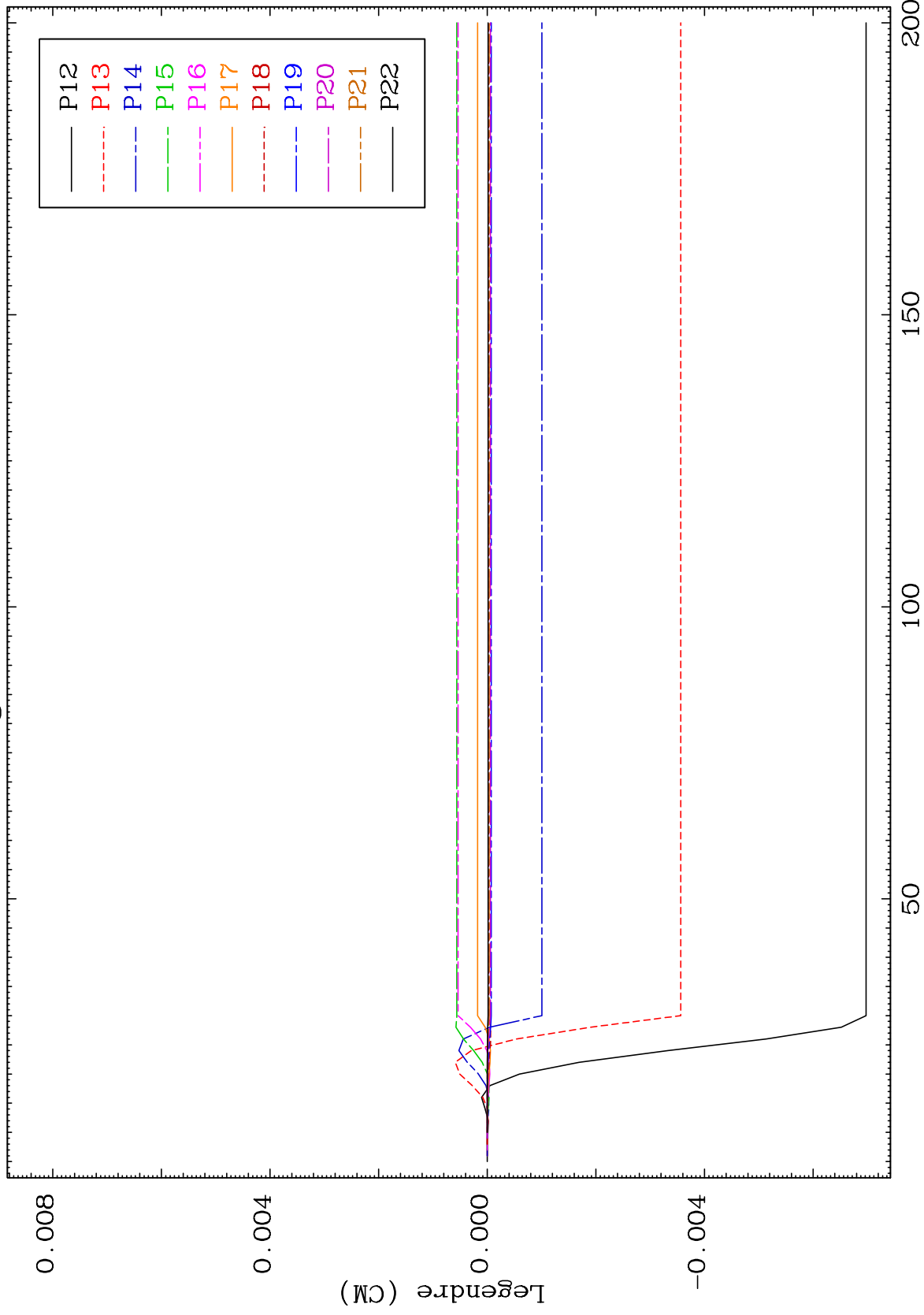
Incident Energy (MeV)

34-Se-83

MAT 3452

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

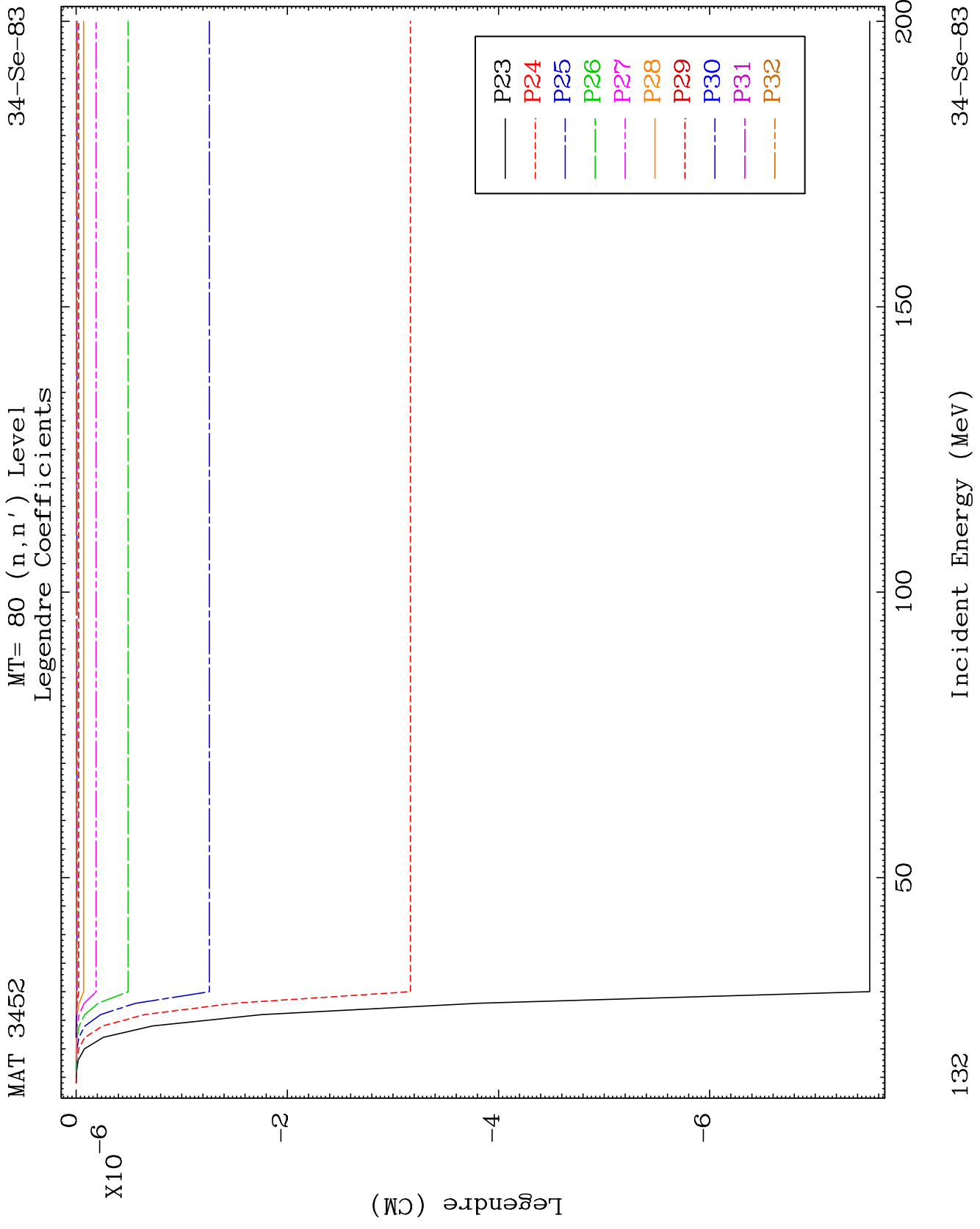
34-Se-83



131

Incident Energy (MeV)

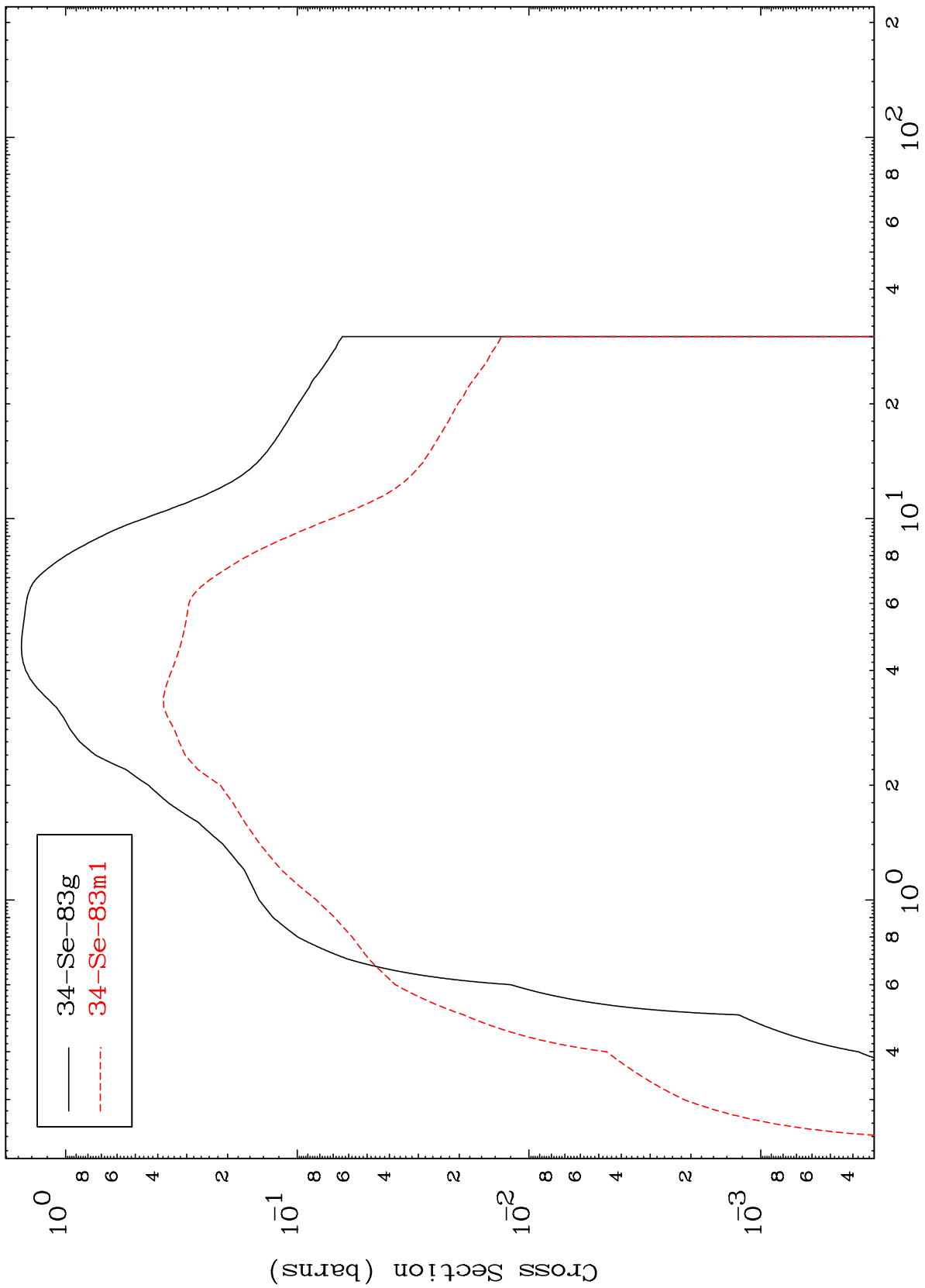
34-Se-83



MAT 3452

<sup>34</sup>Se-83

### Radionuclide Production Cross Section



— 34-Se-83g  
- - - 34-Se-83m1

133

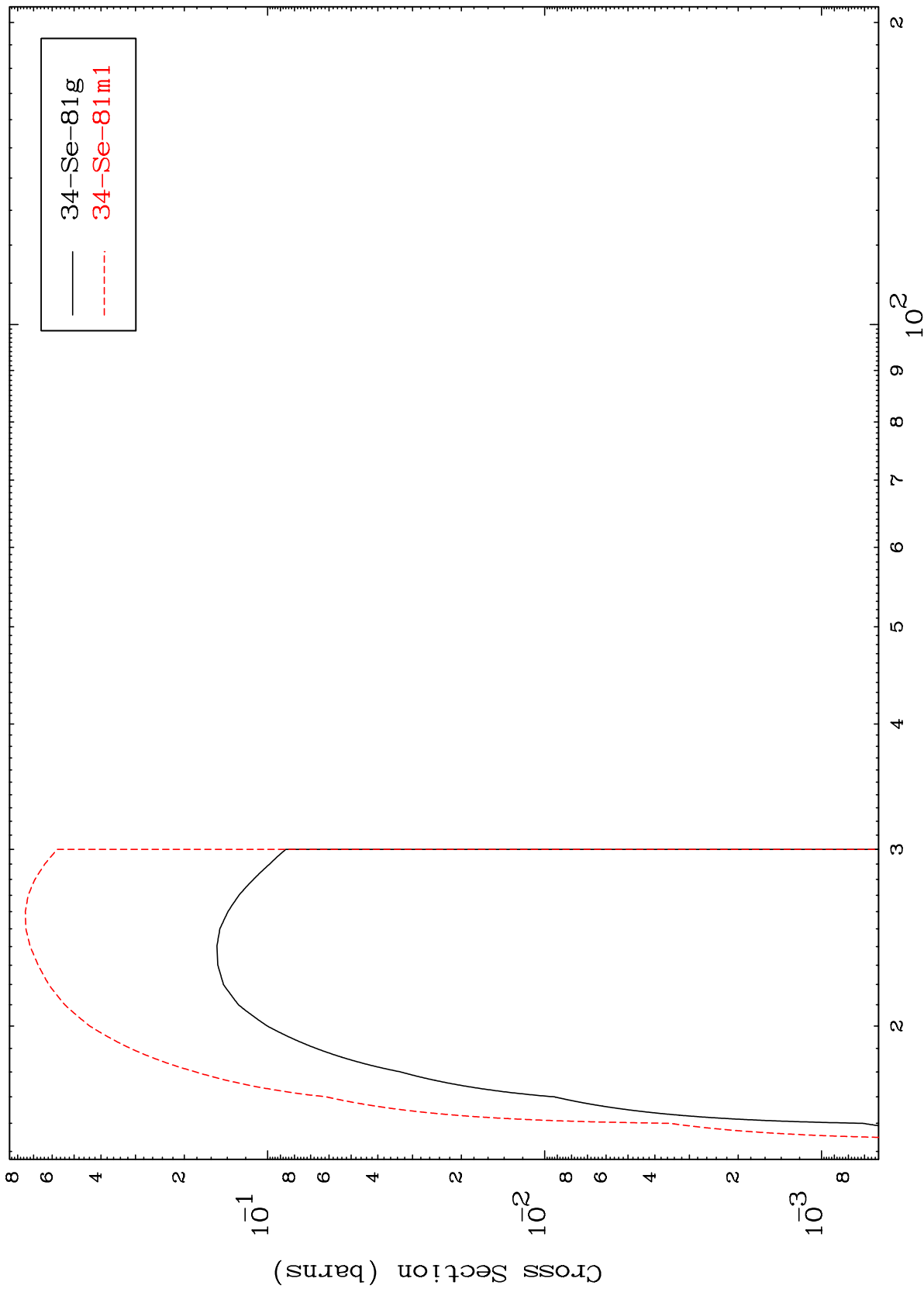
<sup>34</sup>Se-83

Incident Energy (MeV)

MAT 3452

34-Se-83

(n,3n)  
Radionuclide Production Cross Section



34-Se-81g  
34-Se-81m1

134

Incident Energy (MeV)

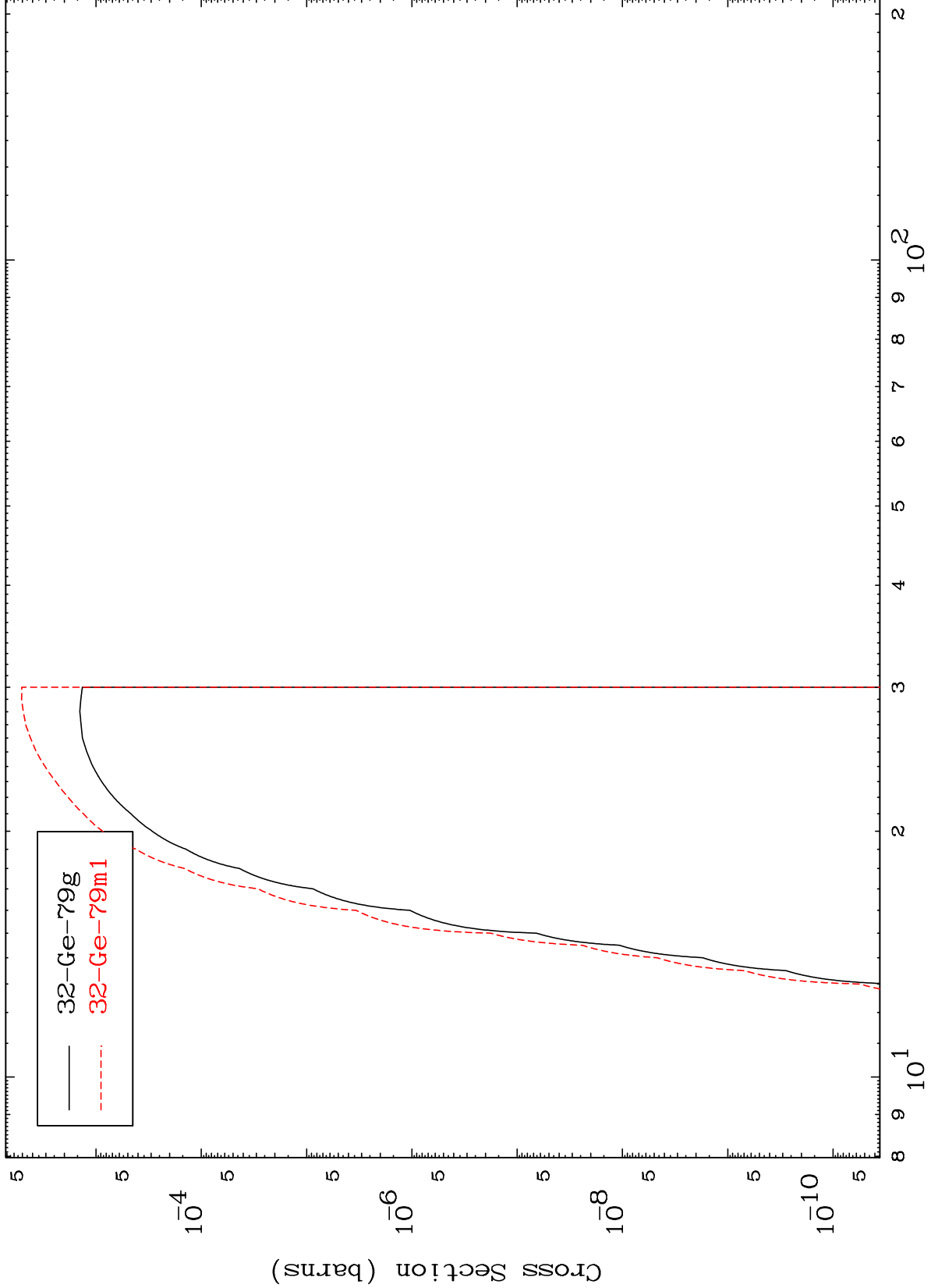
34-Se-83

MAT 3452

$(n, n')$   $\alpha$

$^{34}\text{Se-83}$

Radionuclide Production Cross Section



135

Incident Energy (MeV)

$^{34}\text{Se-83}$

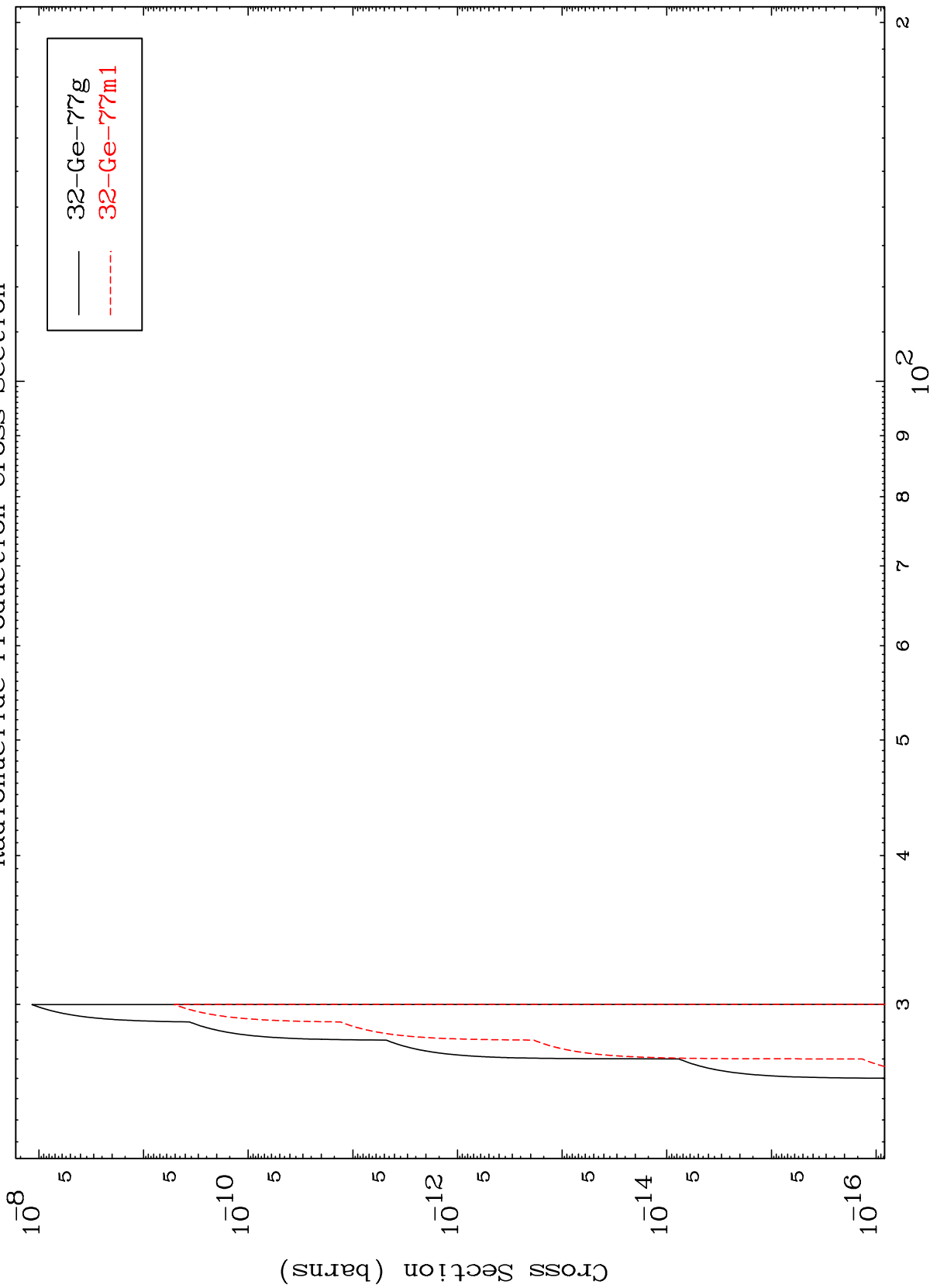


MAT 3452

(n,3n)  $\alpha$

34-<sup>Se-83</sup>

Radionuclide Production Cross Section



136

Incident Energy (MeV)

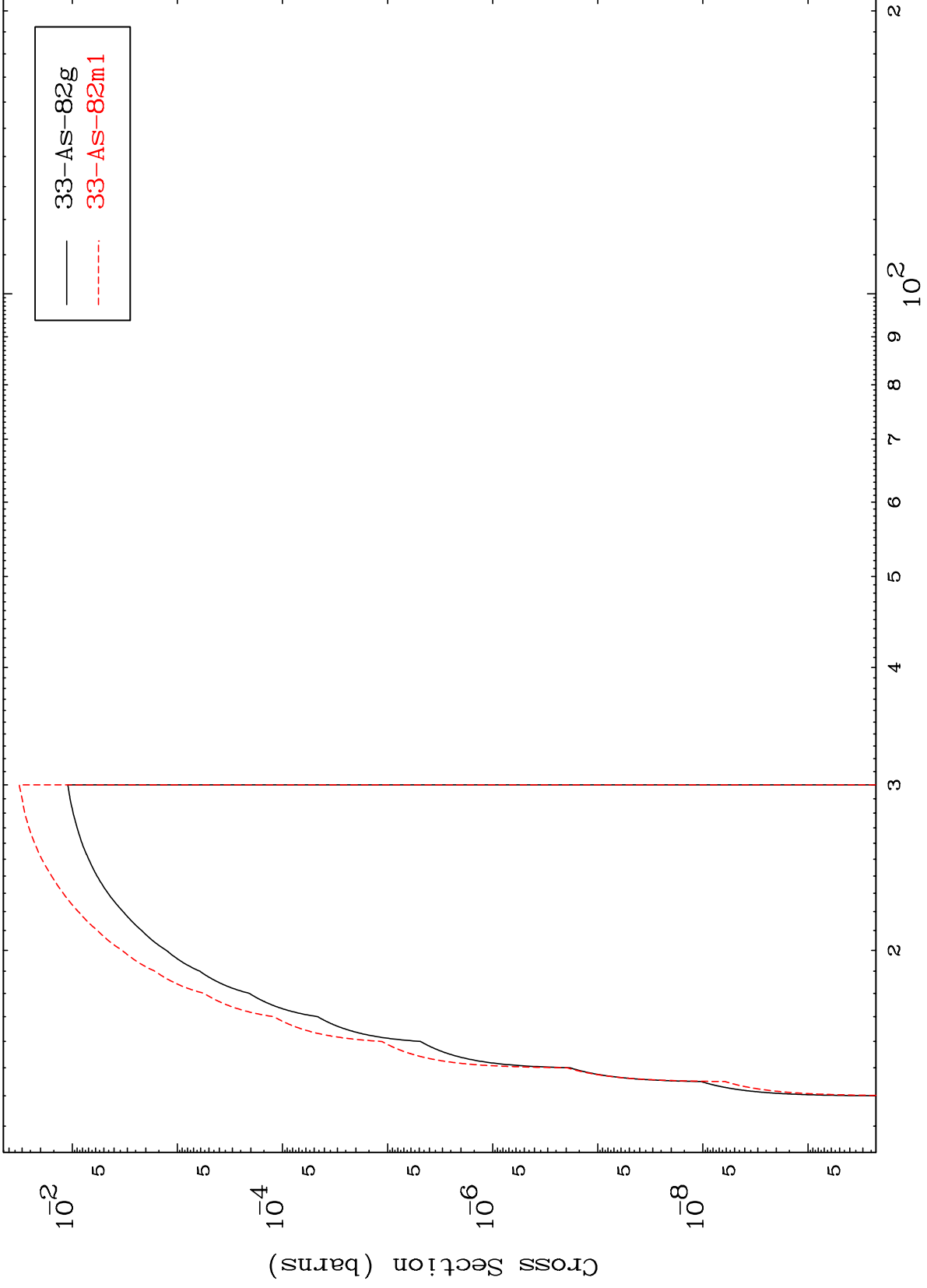
34-<sup>Se-83</sup>

MAT 3452

$(n, n')$  p

$^{34}\text{Se-83}$

Radionuclide Production Cross Section



137

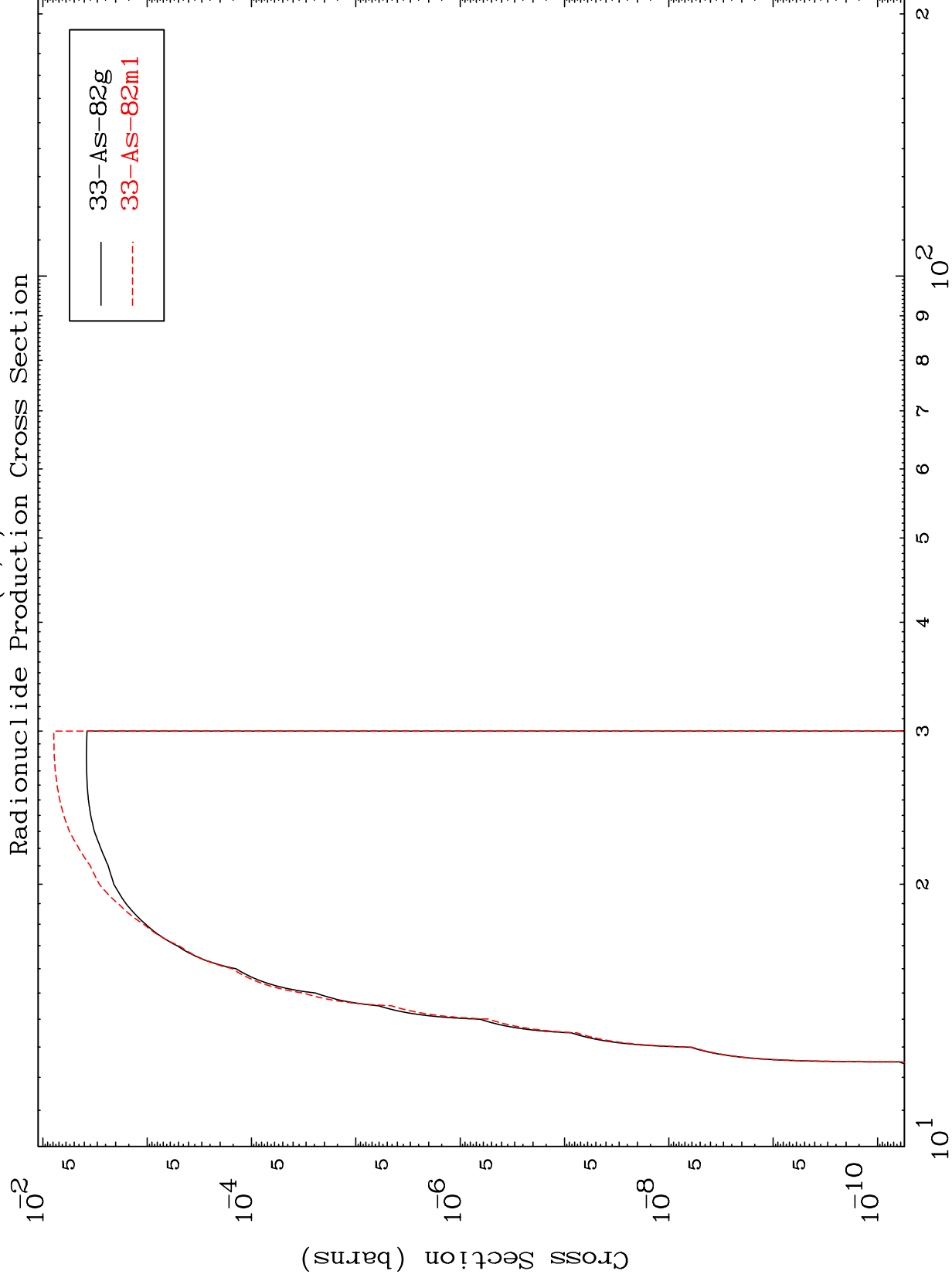
Incident Energy (MeV)

$^{34}\text{Se-83}$

MAT 3452

(n,d)

34-Se-83



34-Se-83

Incident Energy (MeV)

138

(n,He-3)  
Radionuclide Production Cross Section

