

Program EVALPLOT  
(Version 2021-1)

by

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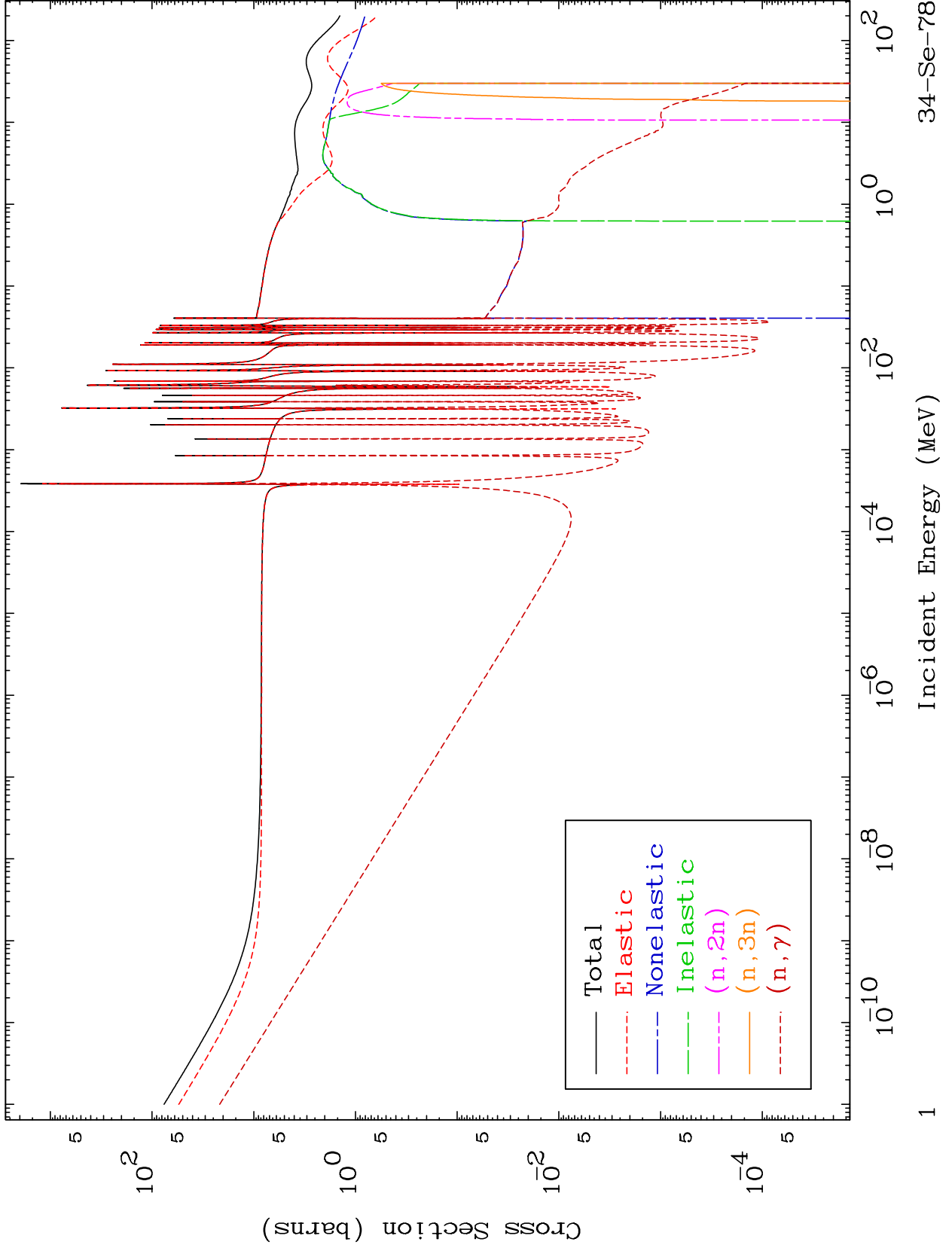
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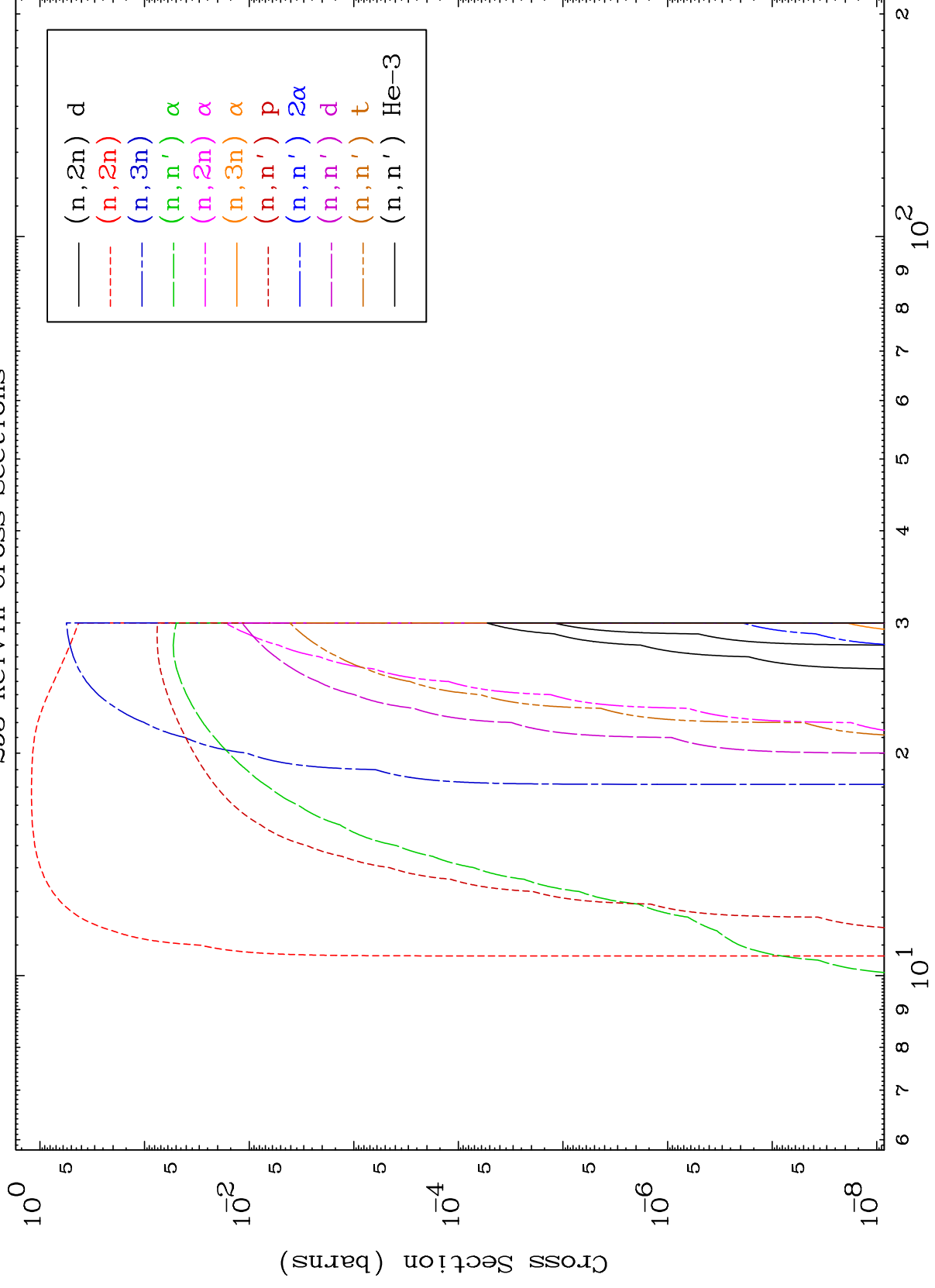
Press Mouse Button to Start

MAT 3437

Neutron Major  
293 Kelvin Cross Sections

<sup>34</sup>Se-78

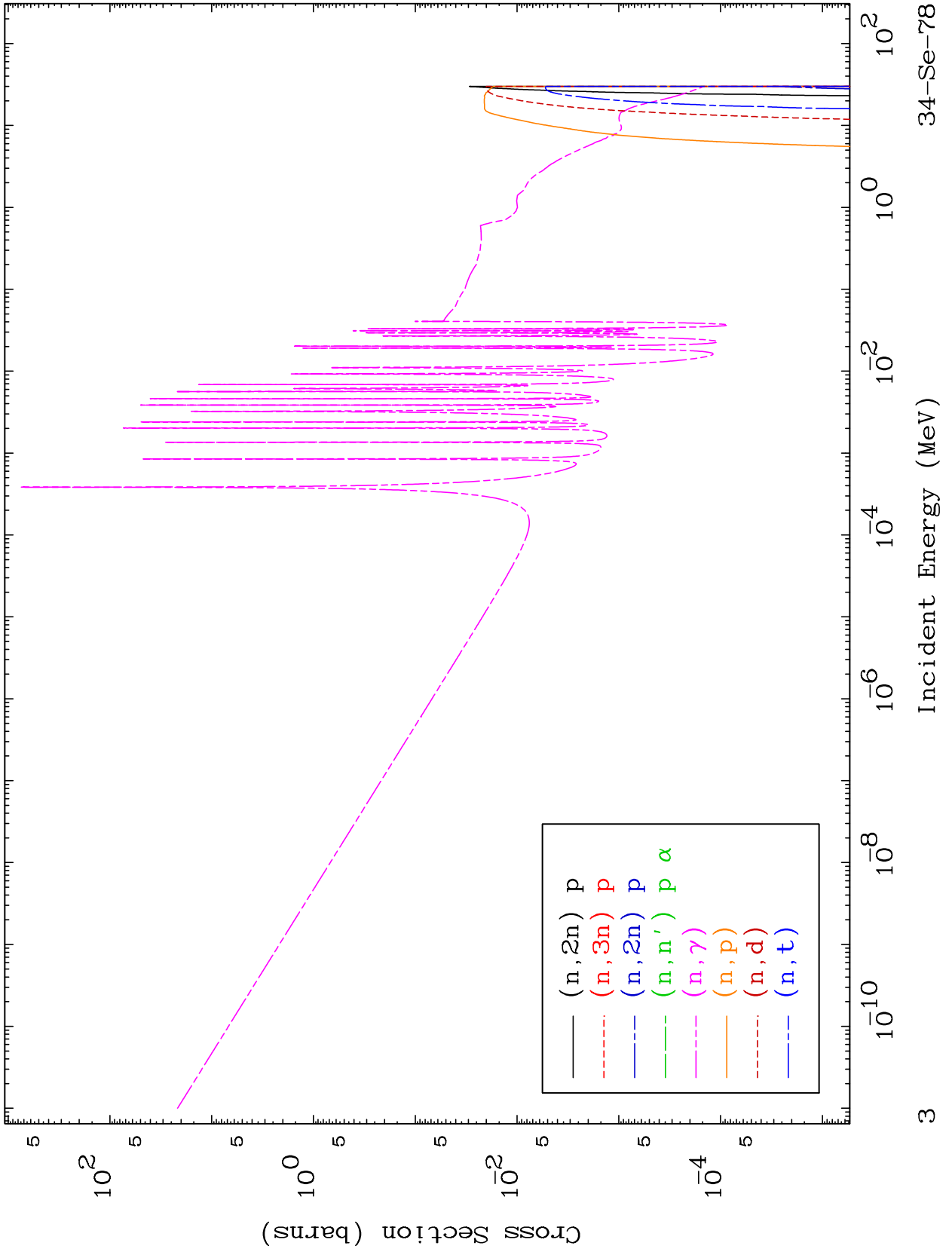




MAT 3437

Neutron Absorption  
293 Kelvin Cross Sections

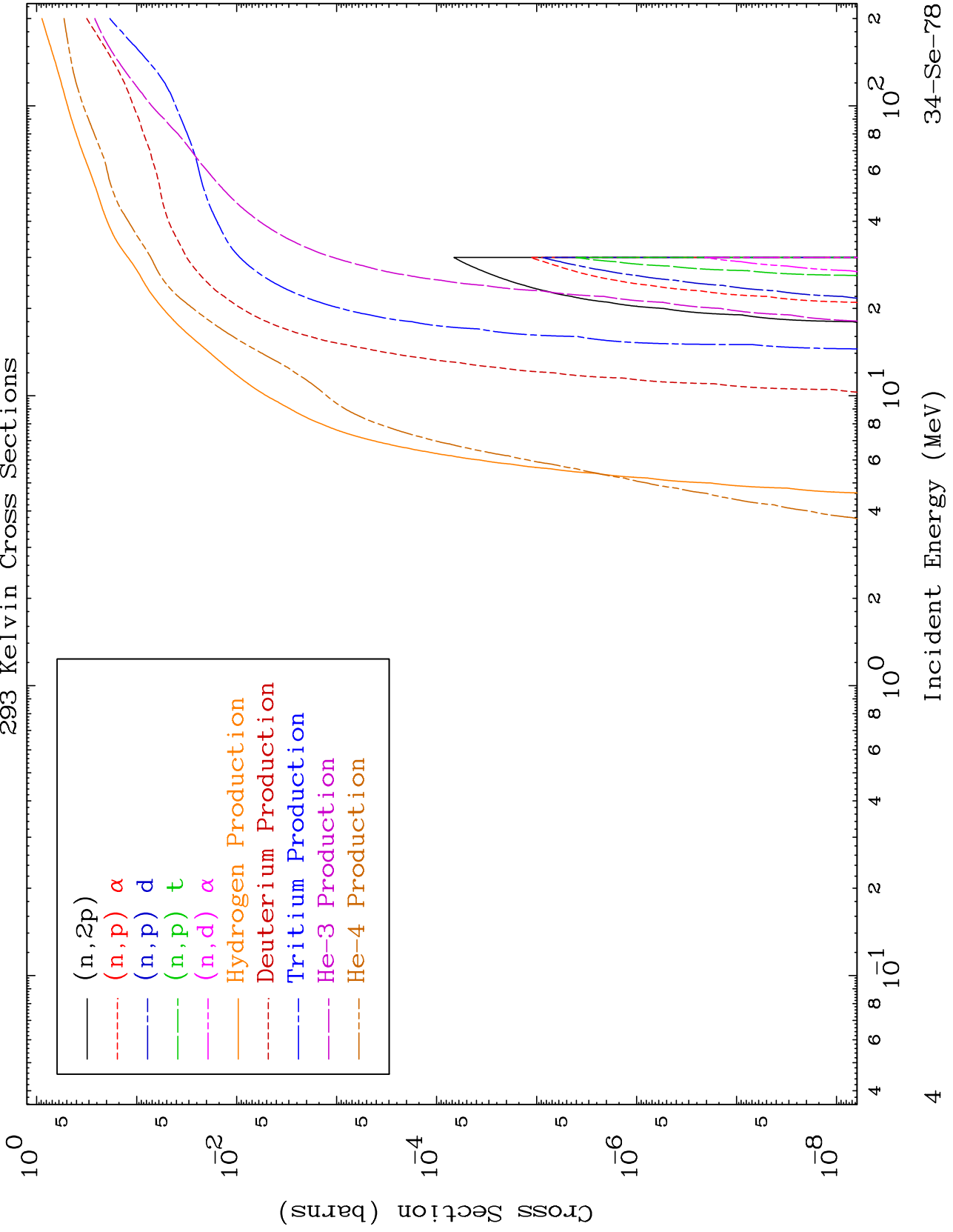
34-Se-78



MAT 3437

Neutron Absorption  
293 Kelvin Cross Sections

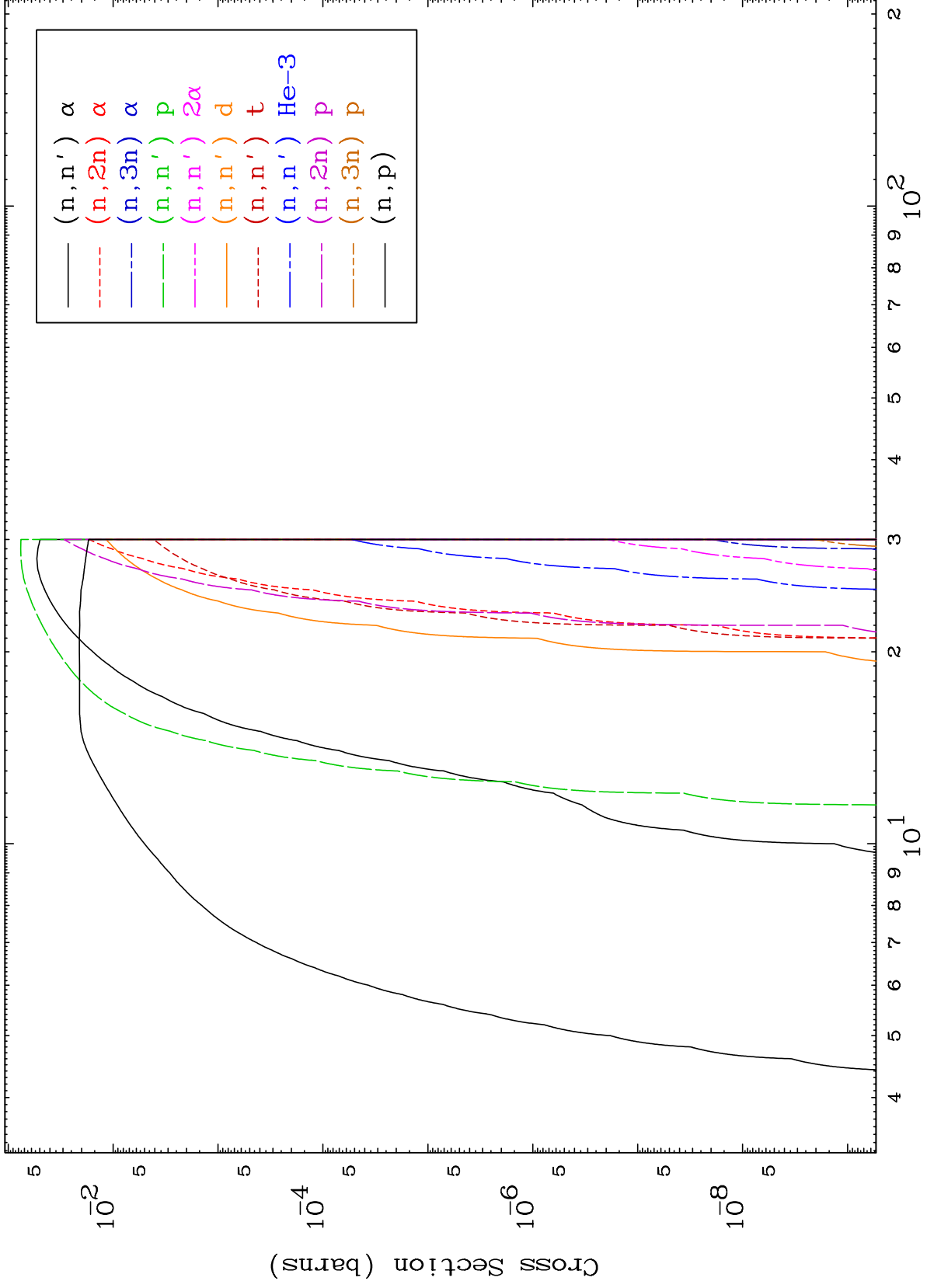
<sup>34</sup>Se-78



MAT 3437

Charged Particle  
293 Kelvin Cross Sections

<sup>34</sup>Se-78



5

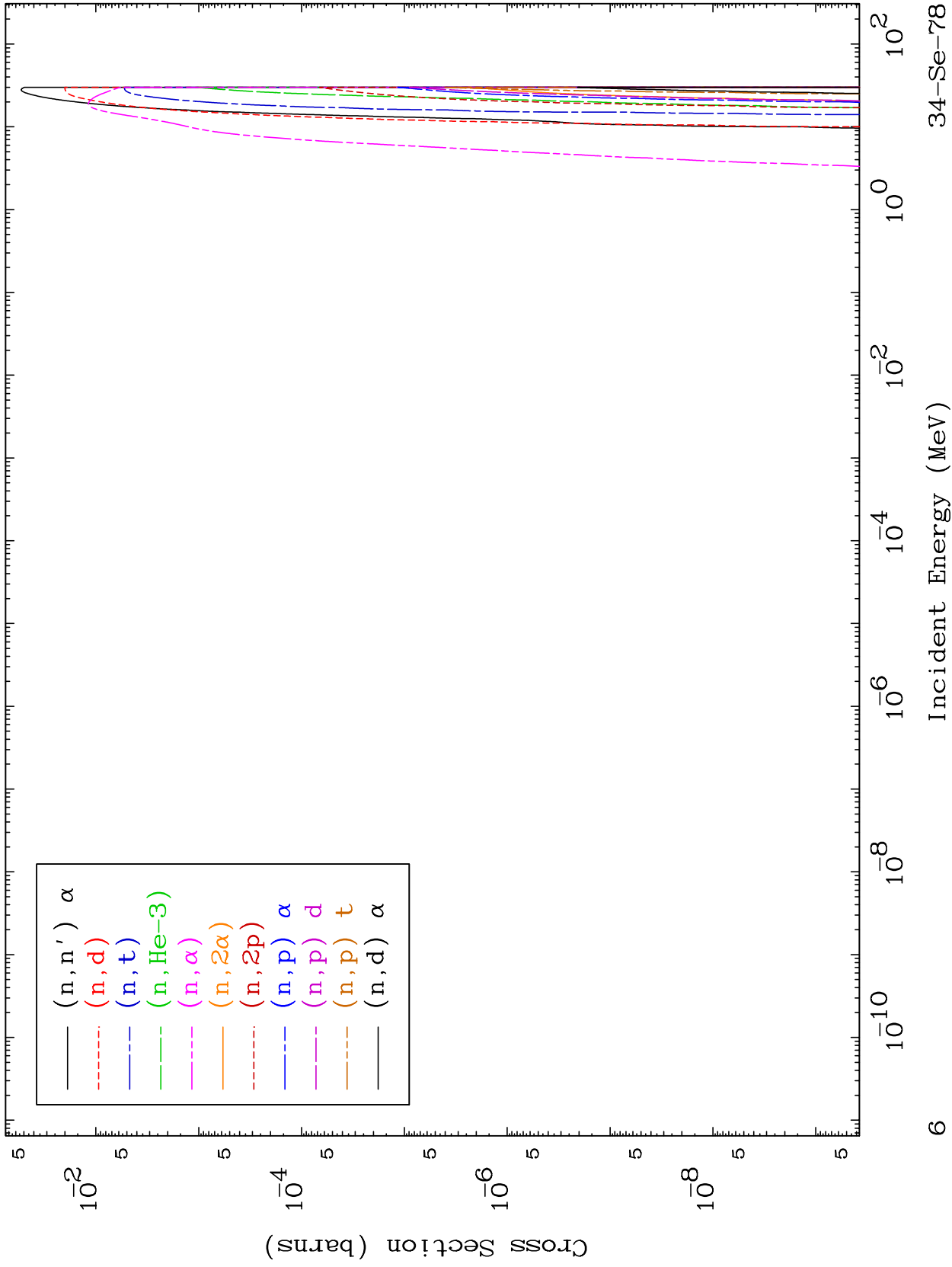
Incident Energy (MeV)

<sup>34</sup>Se-78

MAT 3437

Charged Particle  
293 Kelvin Cross Sections

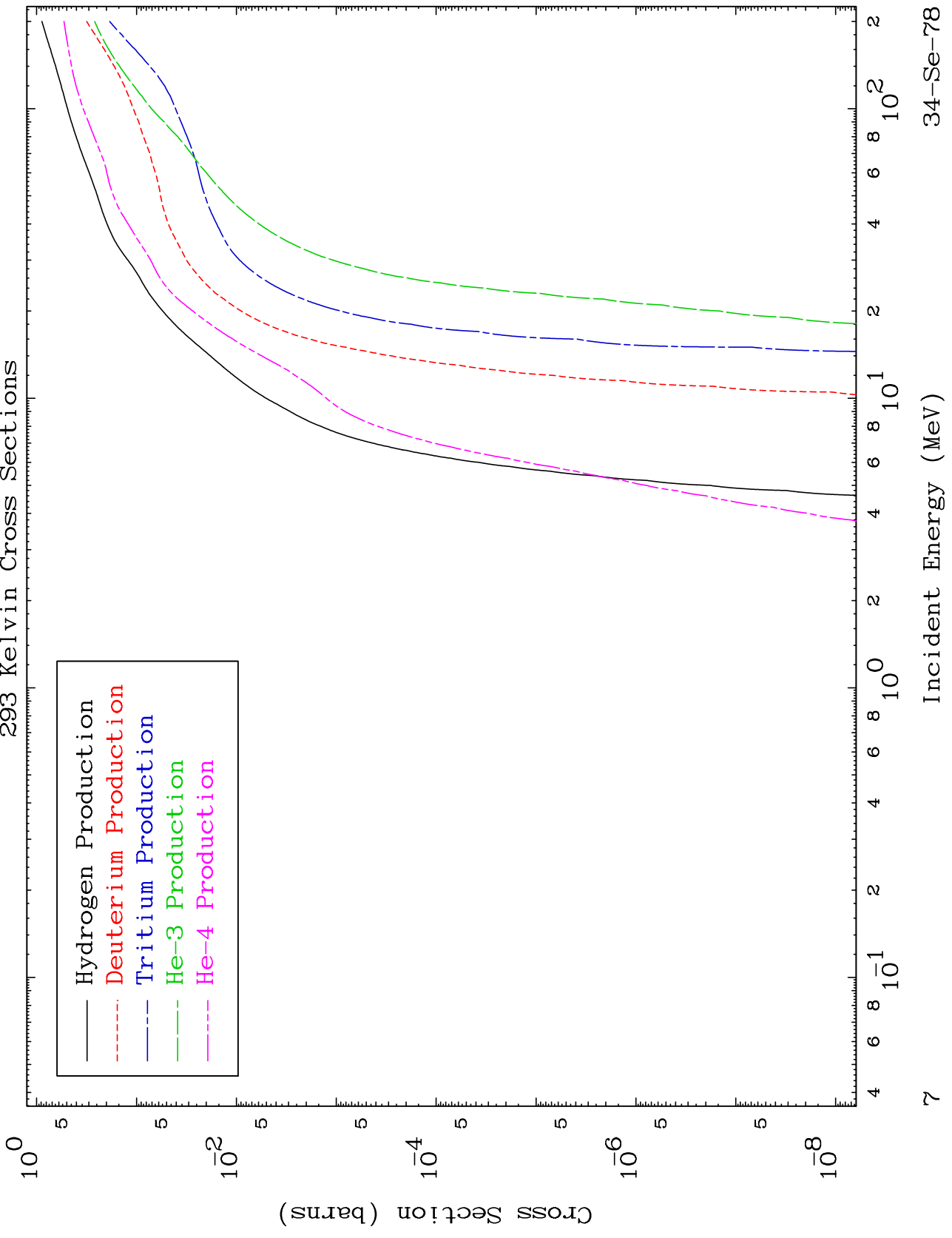
34-Se-78



MAT 3437

Particle Production  
293 Kelvin Cross Sections

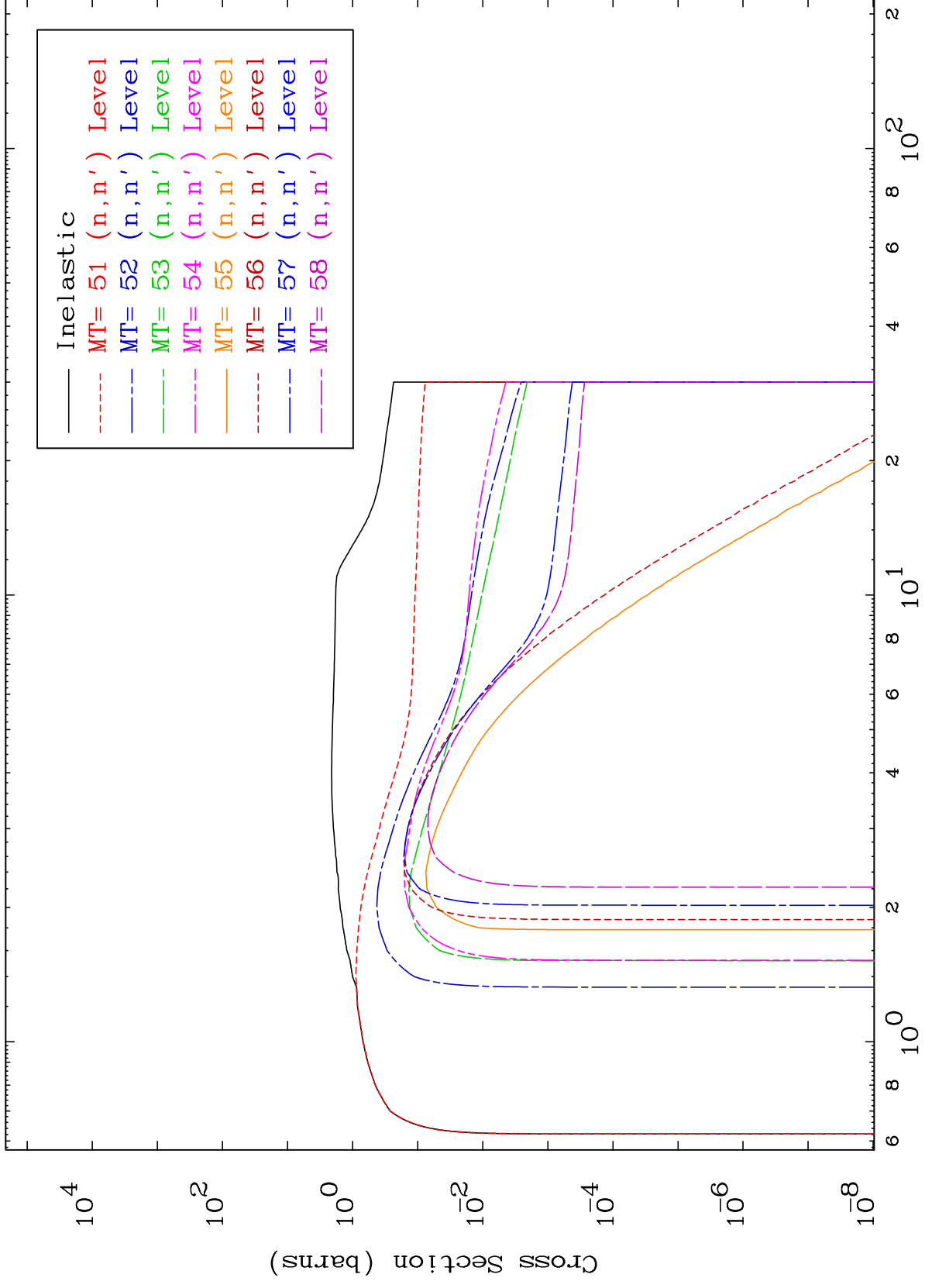
<sup>34</sup>Se-78



MAT 3437

(n,n') Levels  
293 Kelvin Cross Sections

34-Se-78



8

Incident Energy (MeV)

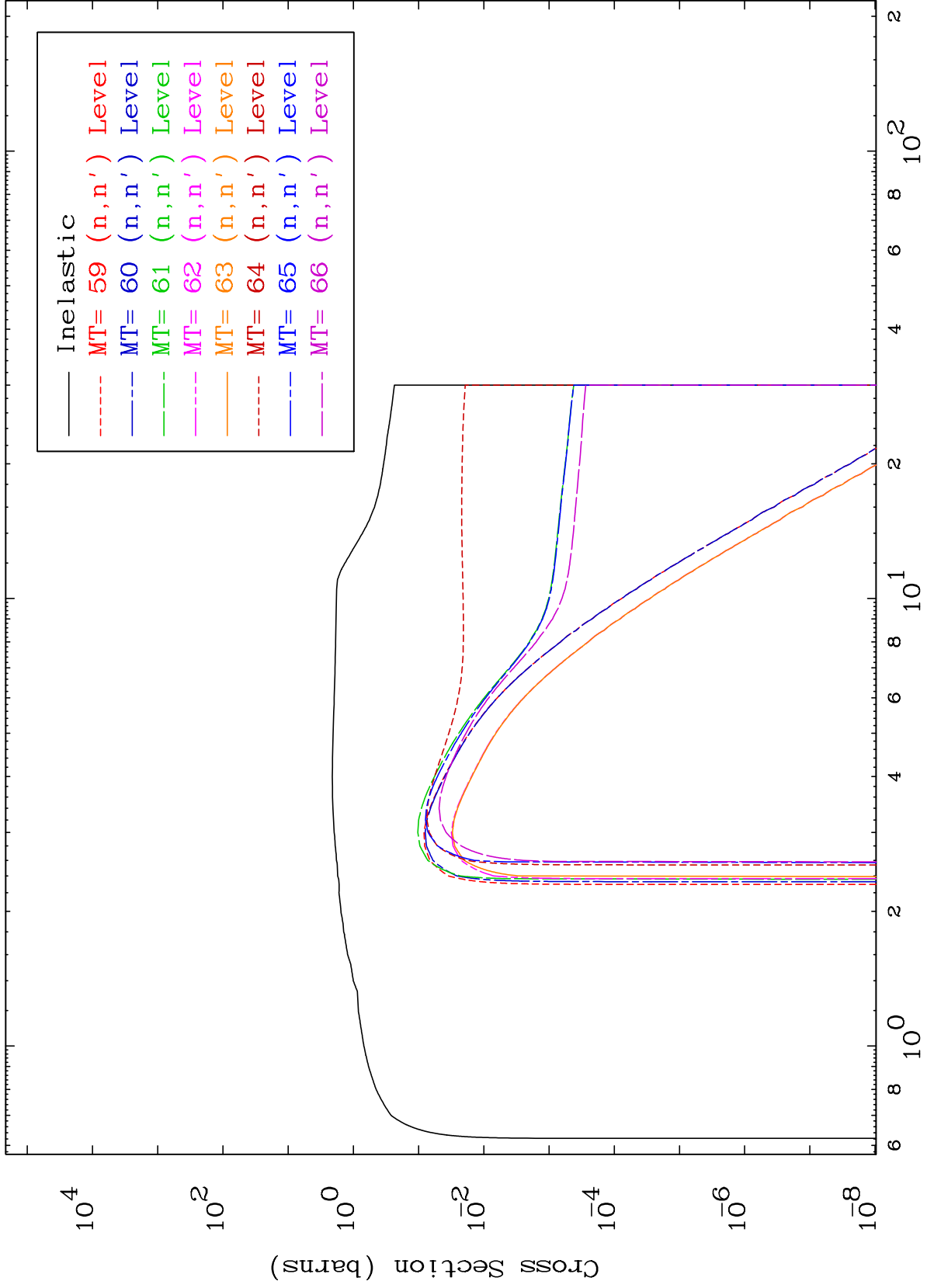
34-Se-78

MAT 3437

(n,n') Levels

34-Se-78

293 Kelvin Cross Sections



9

Incident Energy (MeV)

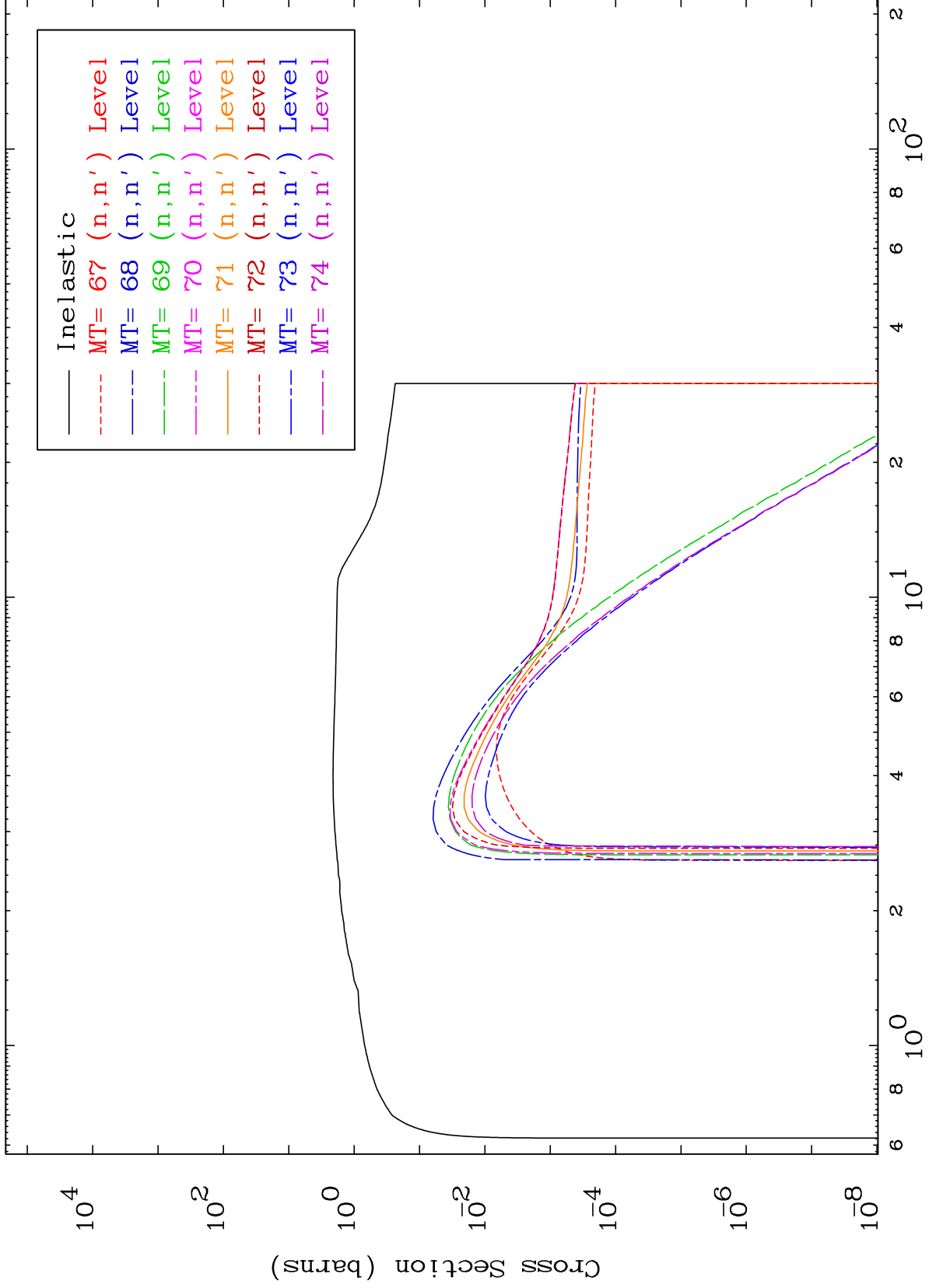
34-Se-78

MAT 3437

(n,n') Levels

34-Se-78

293 Kelvin Cross Sections



10

Incident Energy (MeV)

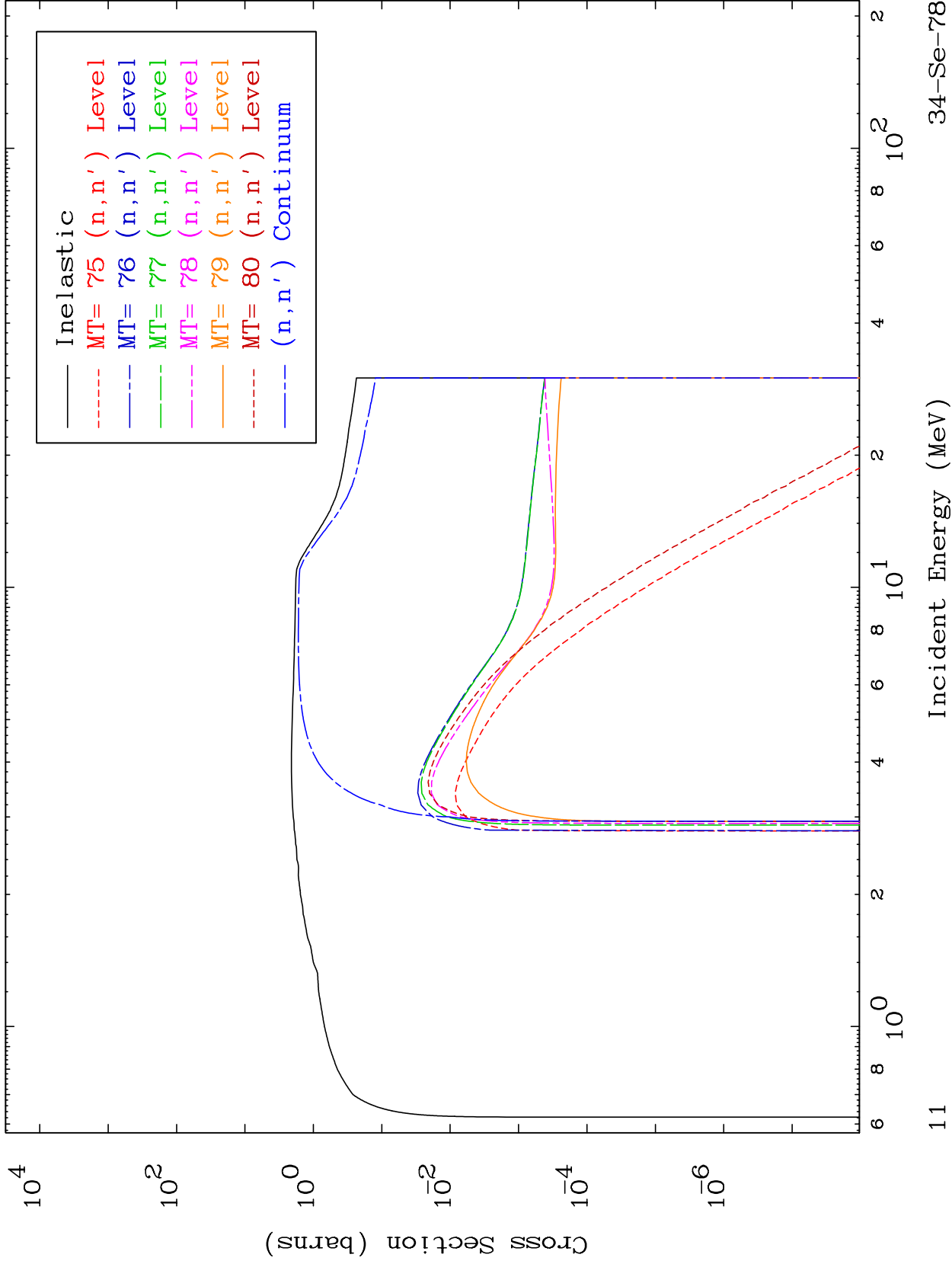
34-Se-78

MAT 3437

(n,n') Levels

34-Se-78

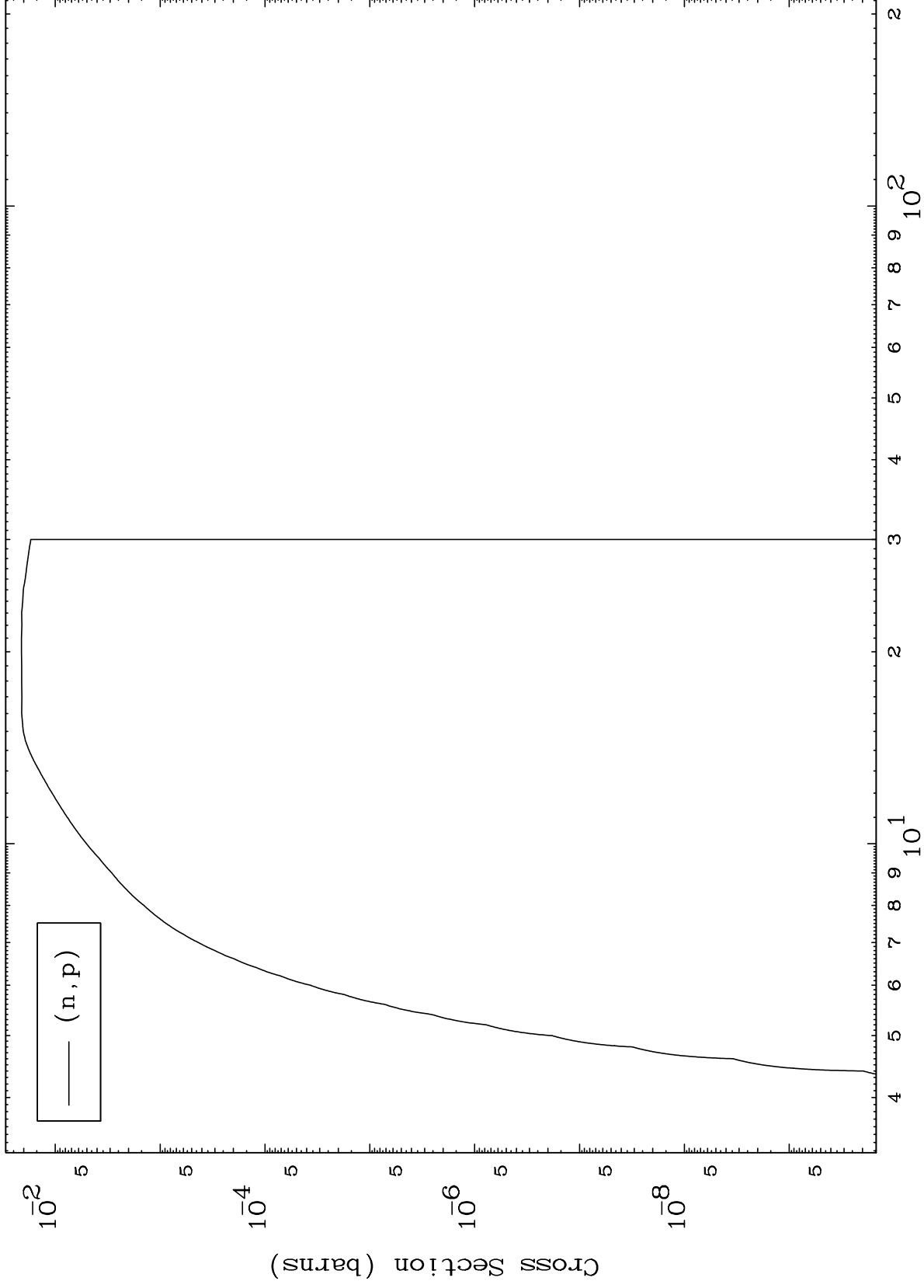
293 Kelvin Cross Sections



MAT 3437

(n,p) Levels  
293 Kelvin Cross Sections

<sup>34</sup>Se-78



12

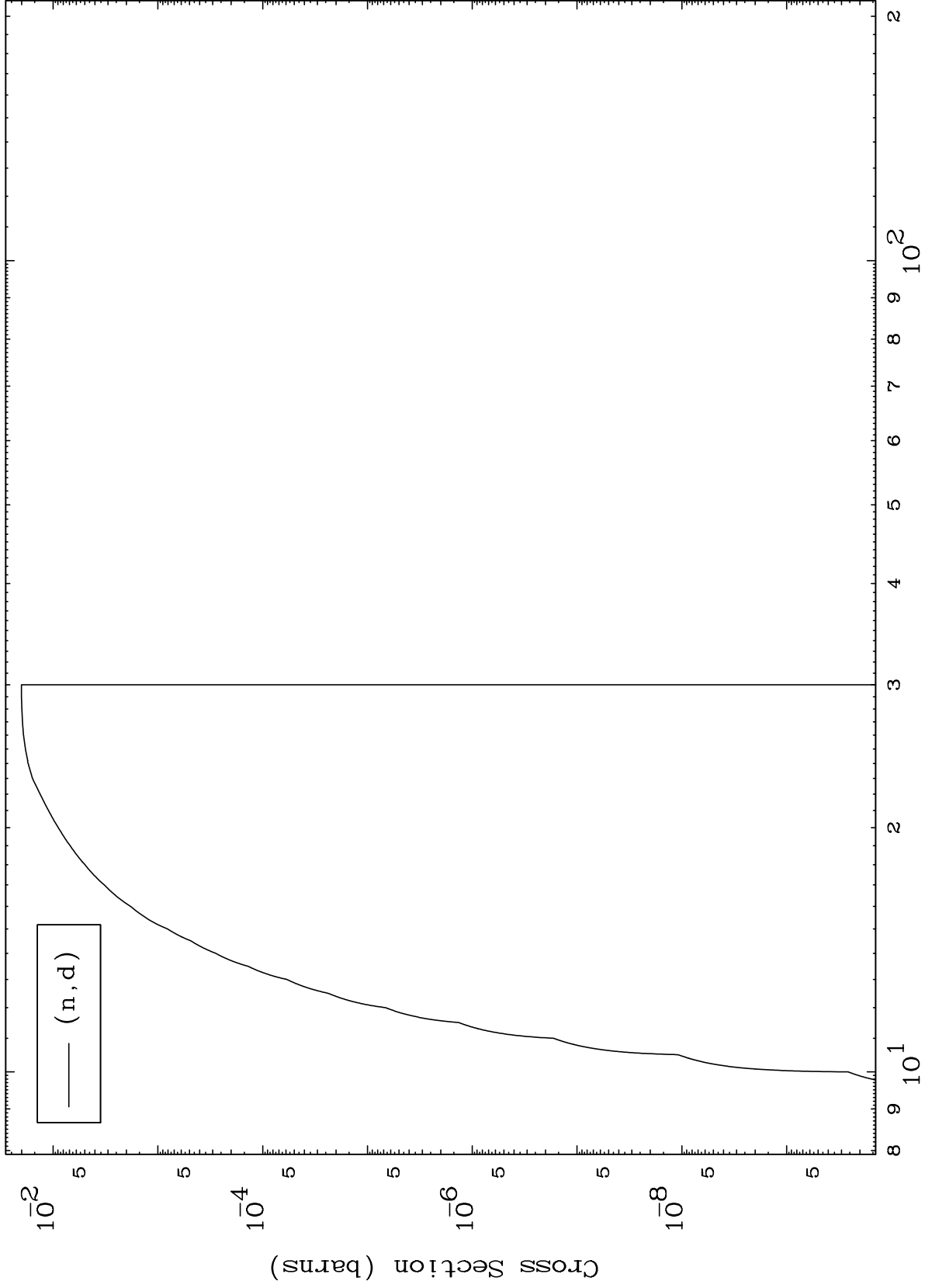
Incident Energy (MeV)

<sup>34</sup>Se-78

MAT 3437

(n,d) Levels  
293 Kelvin Cross Sections

<sup>34</sup>Se-78



13

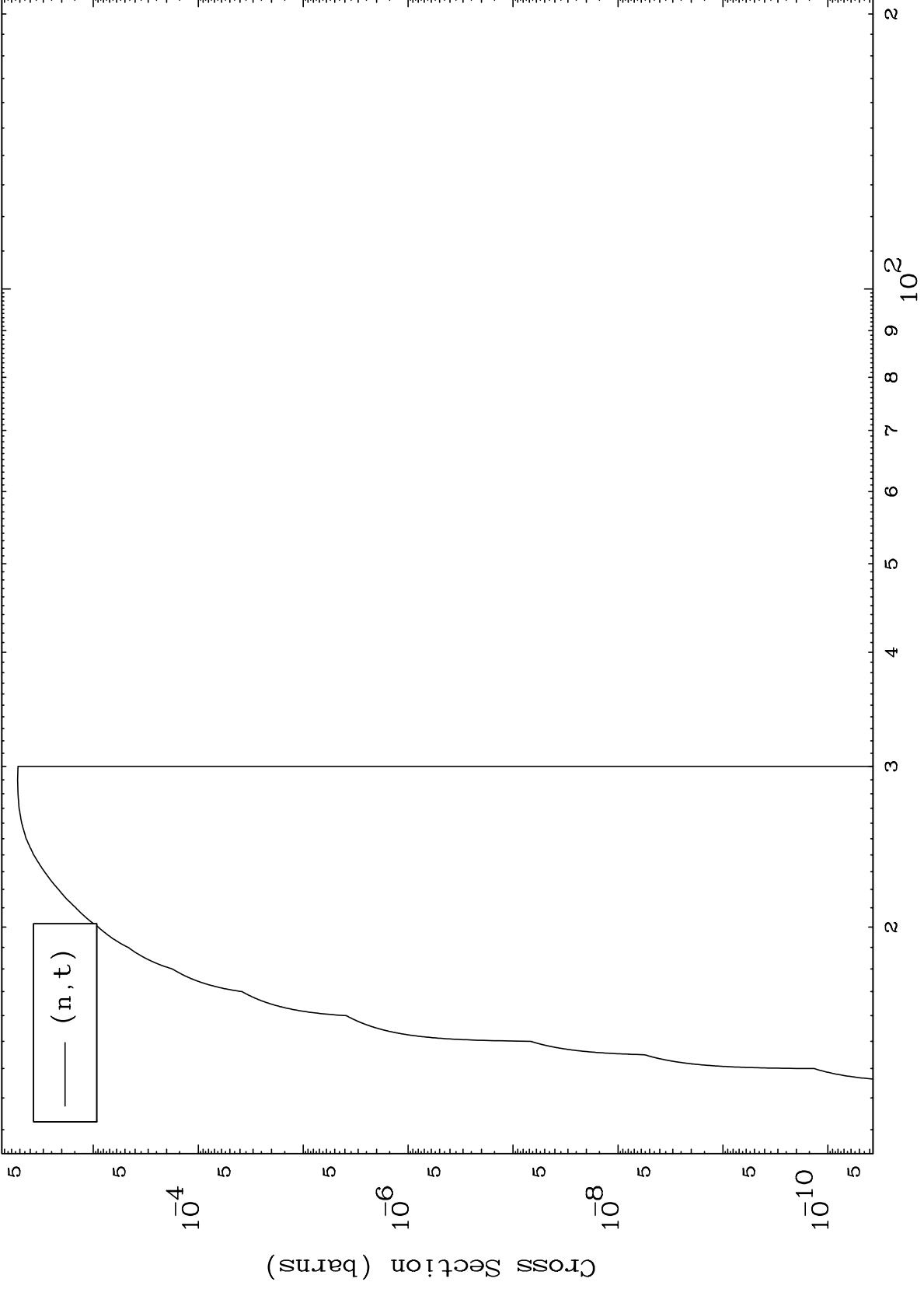
Incident Energy (MeV)

<sup>34</sup>Se-78

MAT 3437

(n,t) Levels  
293 Kelvin Cross Sections

<sup>34</sup>Se-78



14

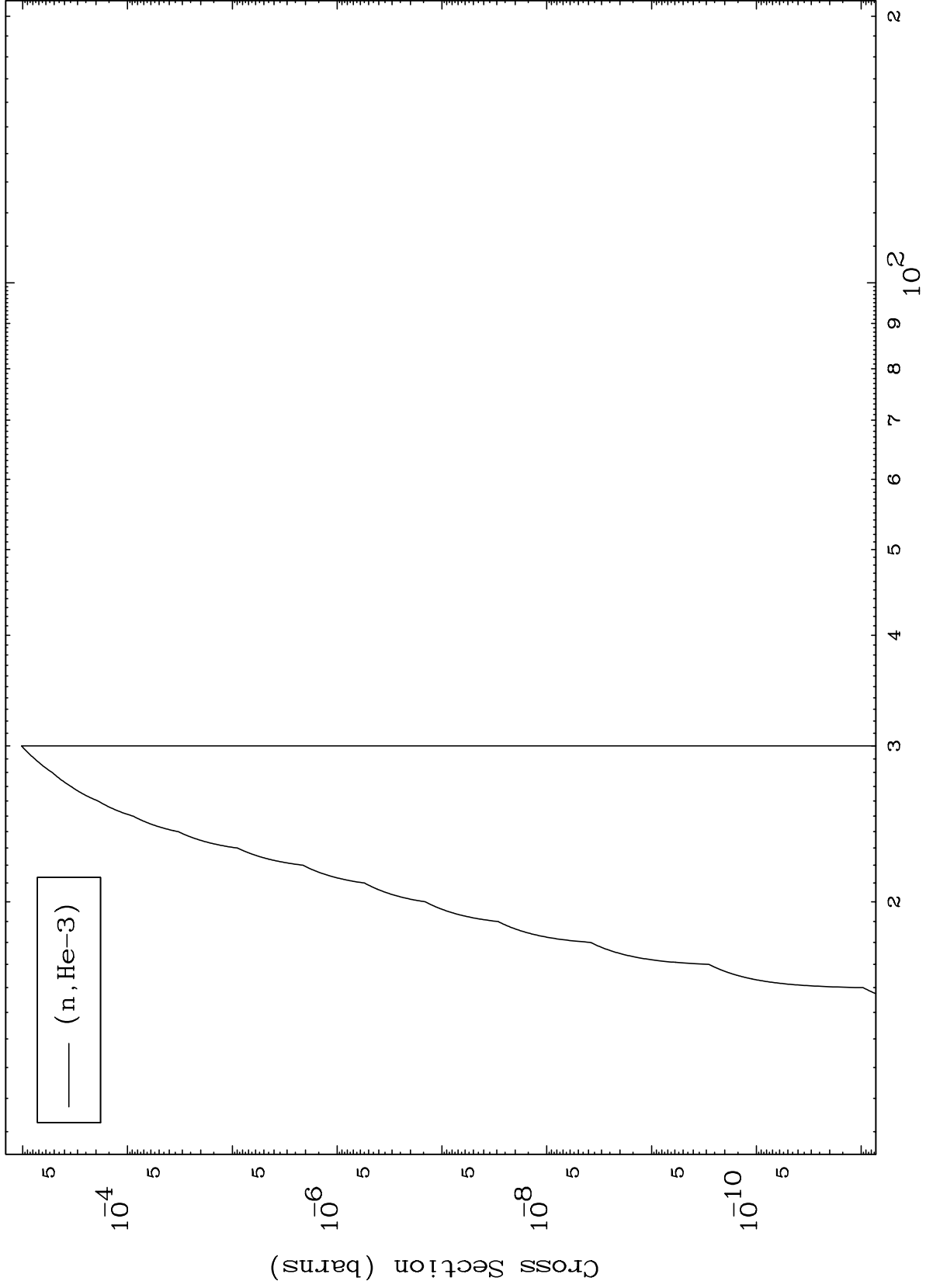
Incident Energy (MeV)

<sup>34</sup>Se-78

MAT 3437

(n,He3) Levels  
293 Kelvin Cross Sections

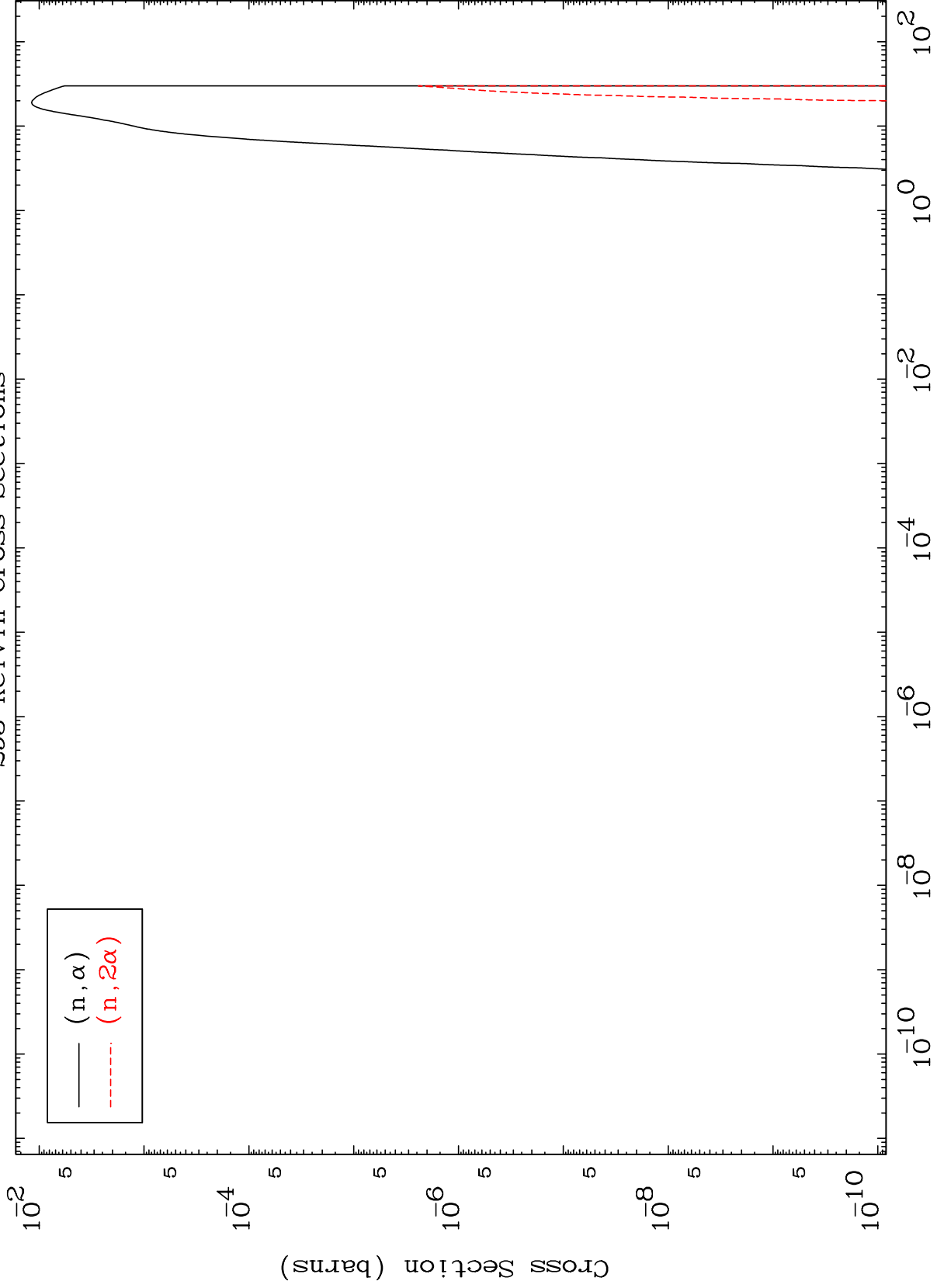
34-Se-78



MAT 3437

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

<sup>34</sup>Se-78



16

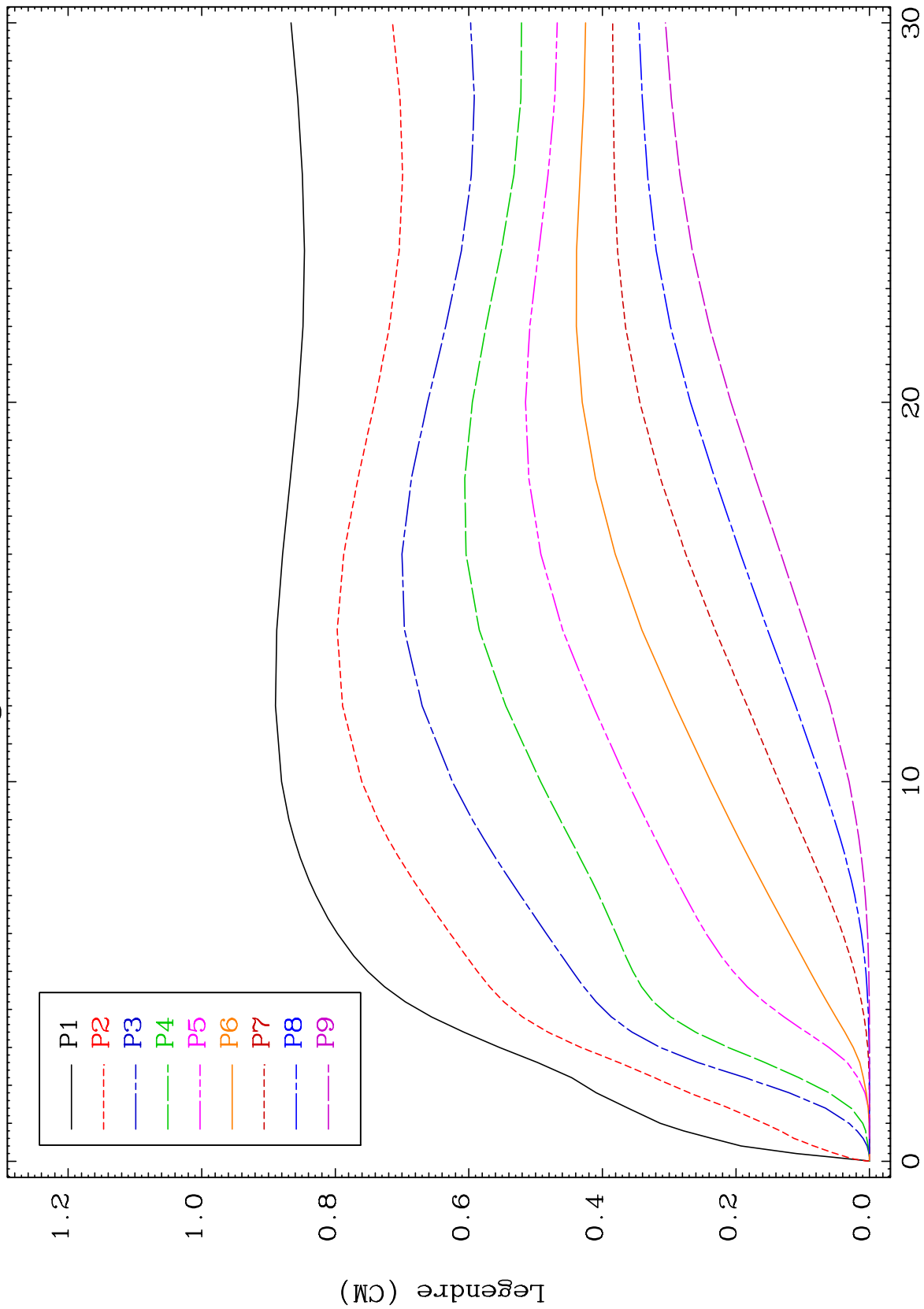
Incident Energy (MeV)

<sup>34</sup>Se-78

MAT 3437

Elastic Legendre Coefficients

<sup>34</sup>Se-78



17

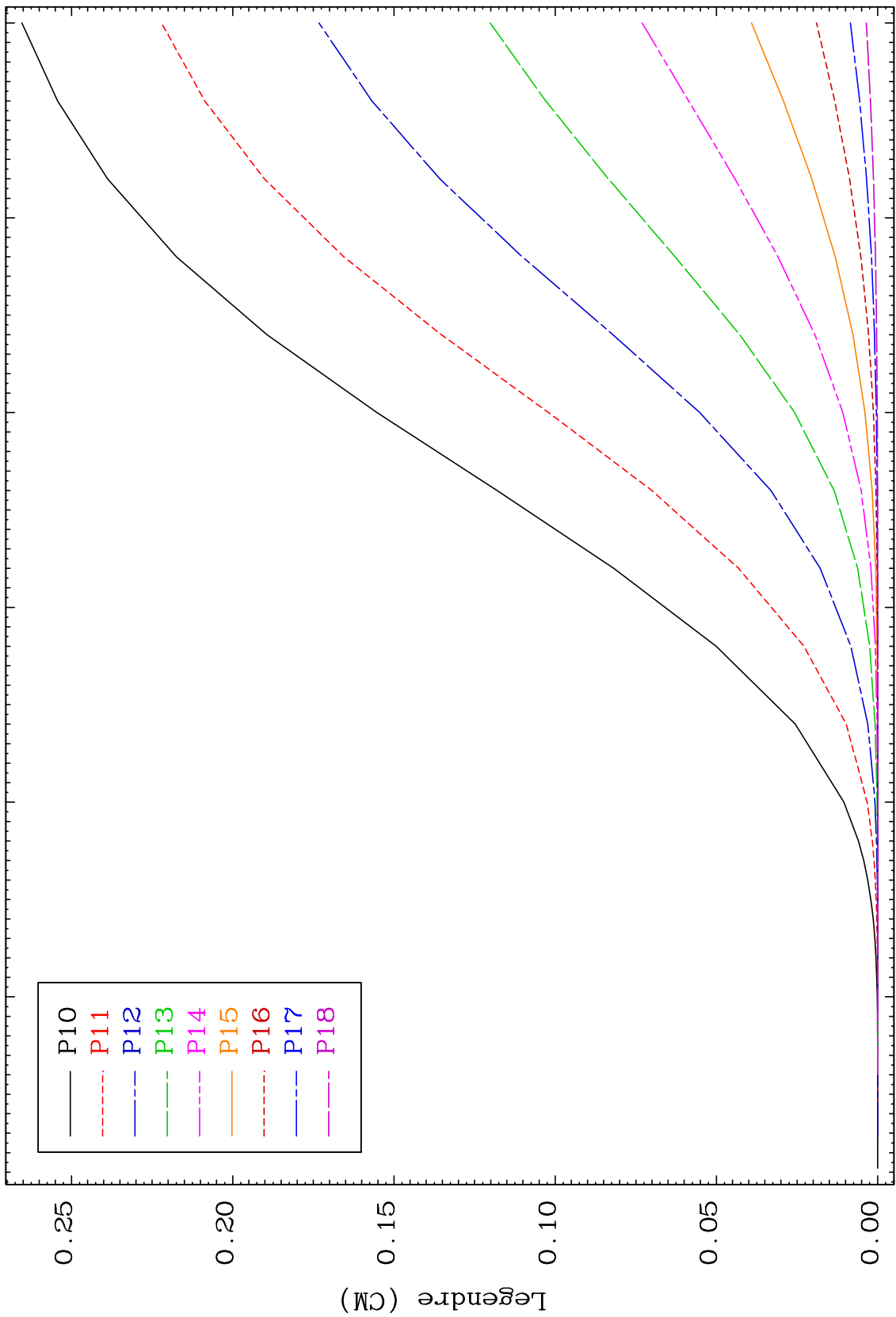
Incident Energy (MeV)

<sup>34</sup>Se-78

MAT 3437

Elastic Legendre Coefficients

<sup>34</sup>Se-78



18

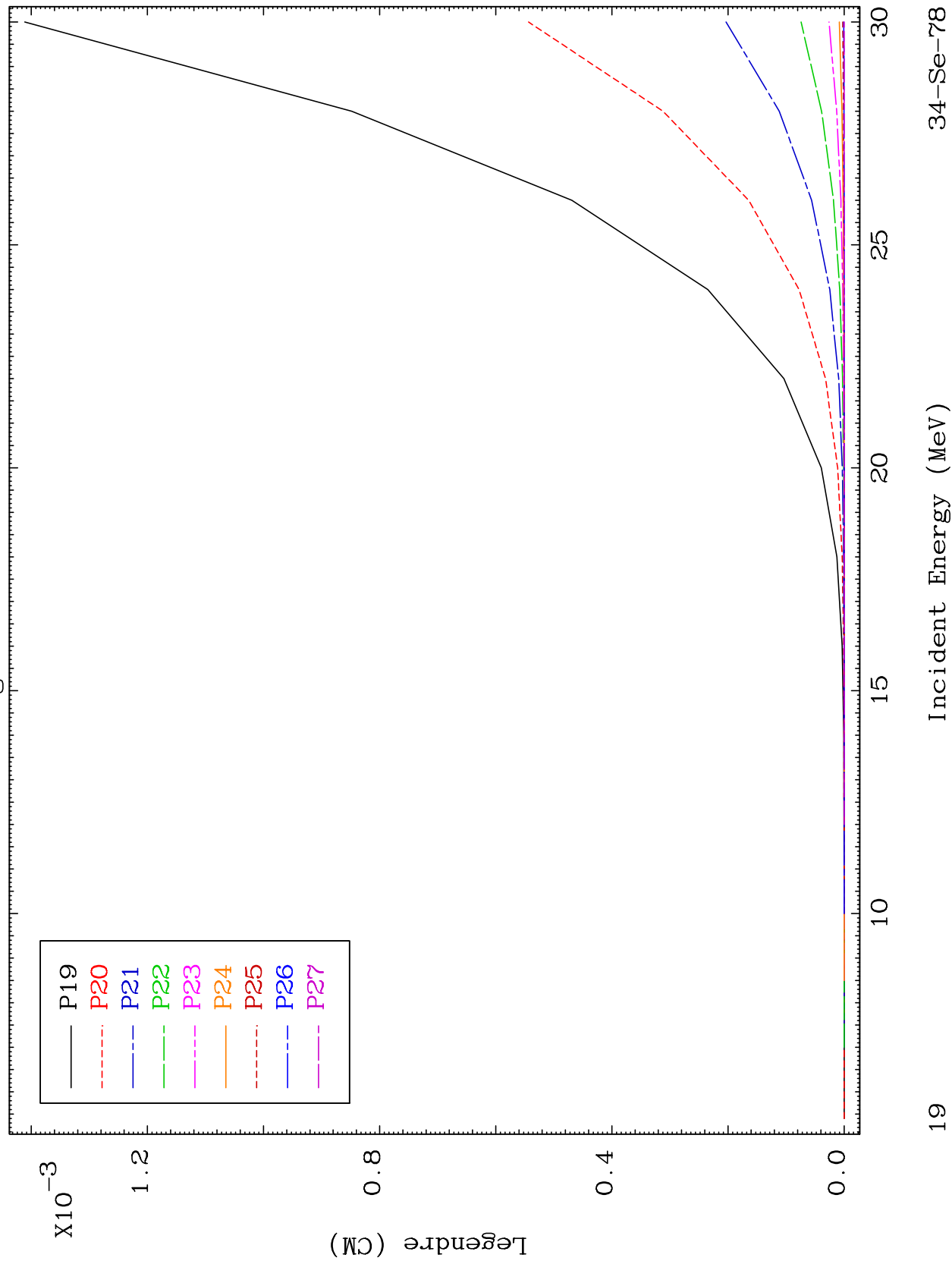
Incident Energy (MeV)

<sup>34</sup>Se-78

MAT 3437

### Elastic Legendre Coefficients

<sup>34</sup>Se-78

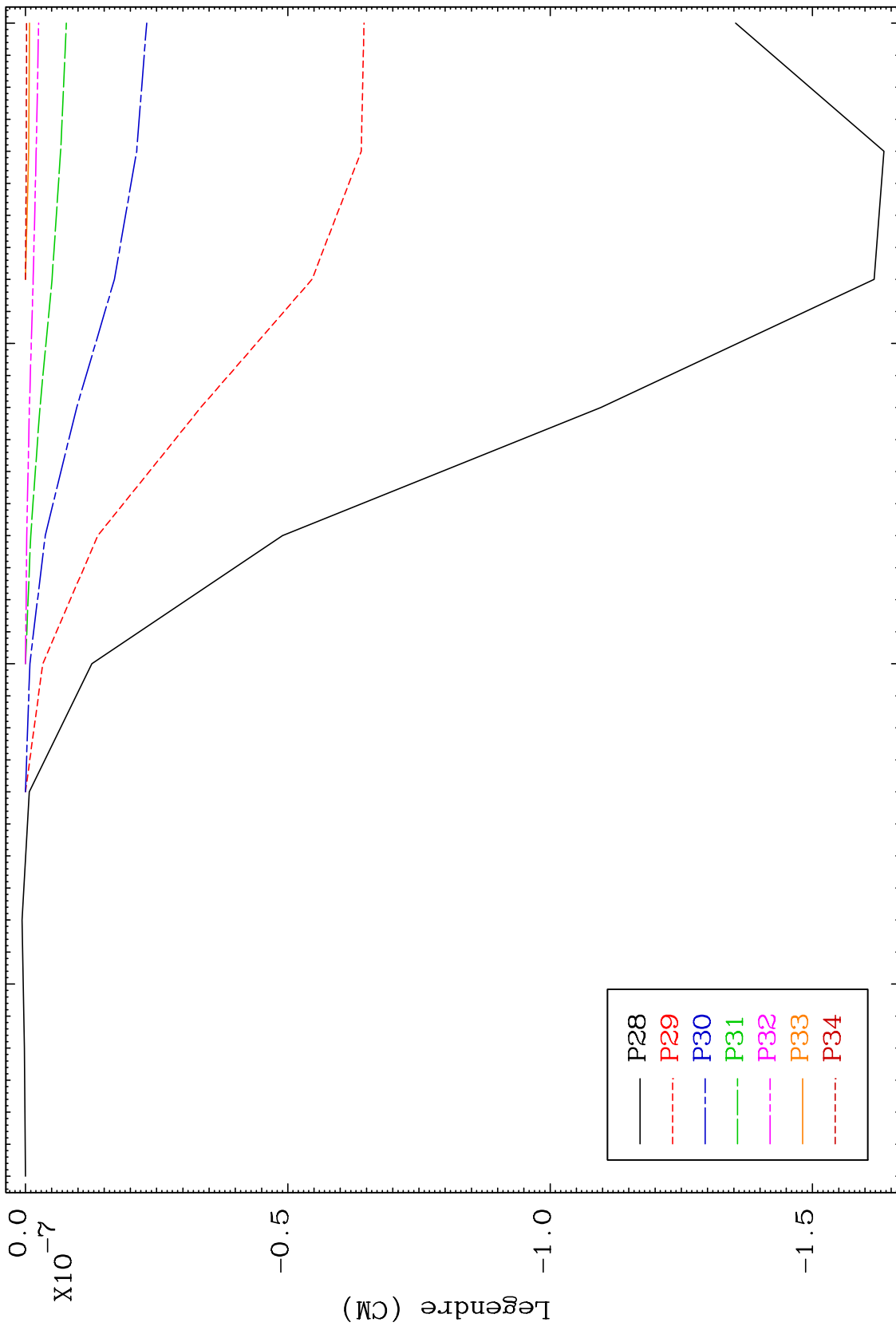


- P19
- P20
- P21
- P22
- P23
- P24
- P25
- P26
- P27

MAT 3437

<sup>34</sup>Se-78

Elastic Legendre Coefficients



0.0

$\times 10^{-7}$

-0.5

-1.0

-1.5

Legendre (CM)

15

20

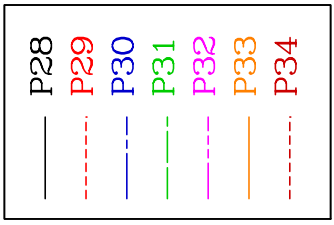
25

30

20

Incident Energy (MeV)

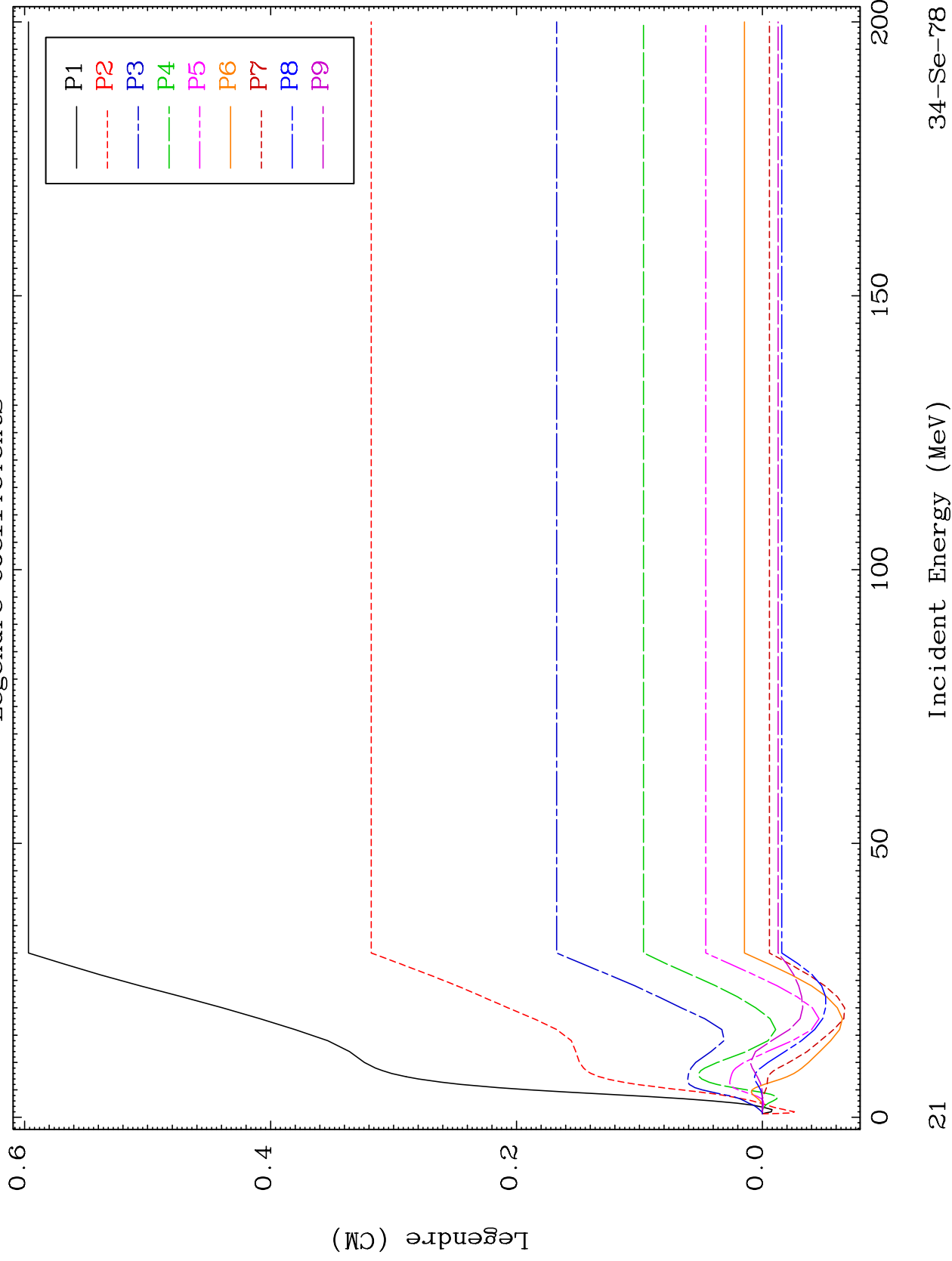
<sup>34</sup>Se-78



MAT 3437

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

<sup>34</sup>Se-78



21

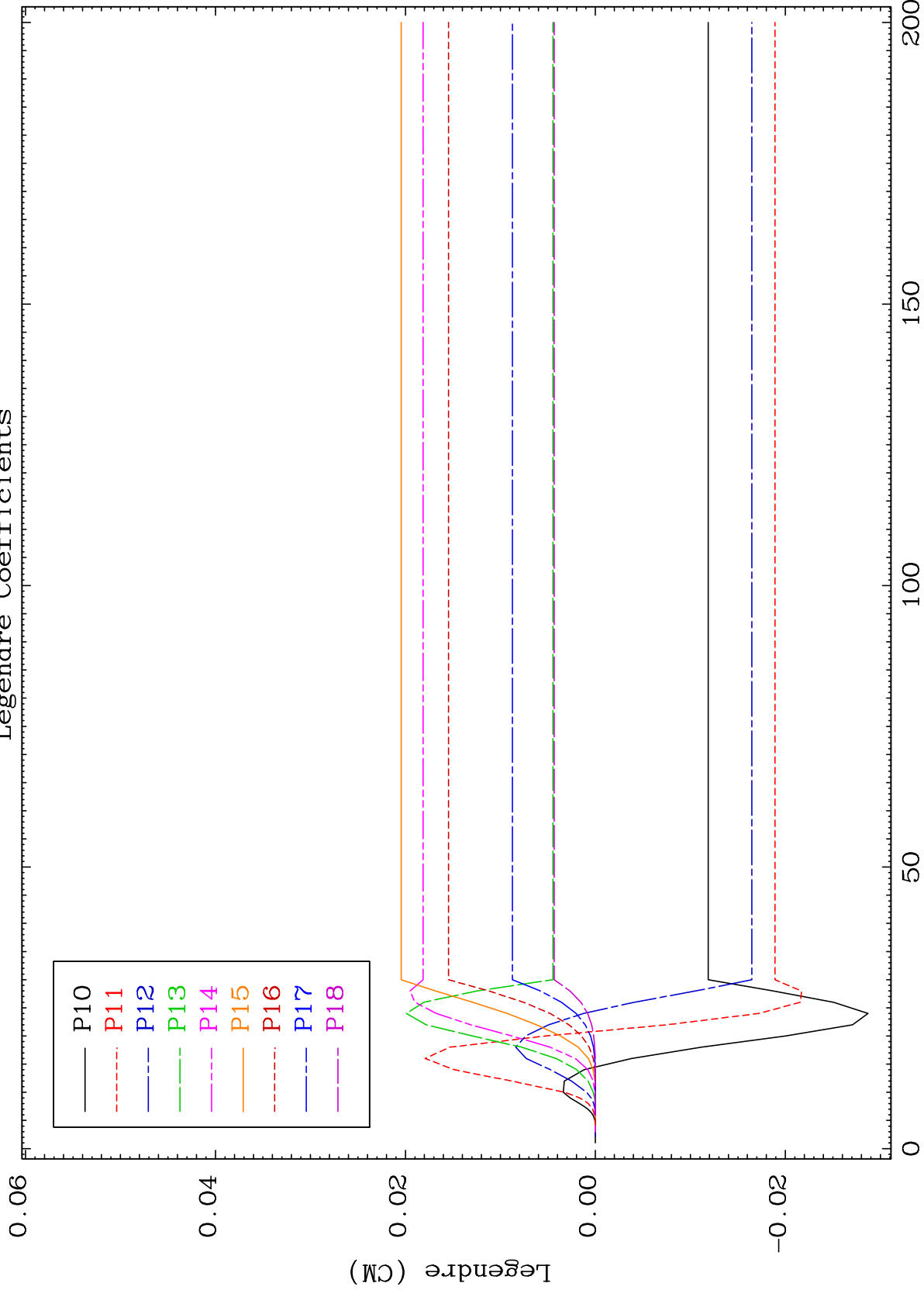
Incident Energy (MeV)

<sup>34</sup>Se-78

MAT 3437

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

34-Se-78



22

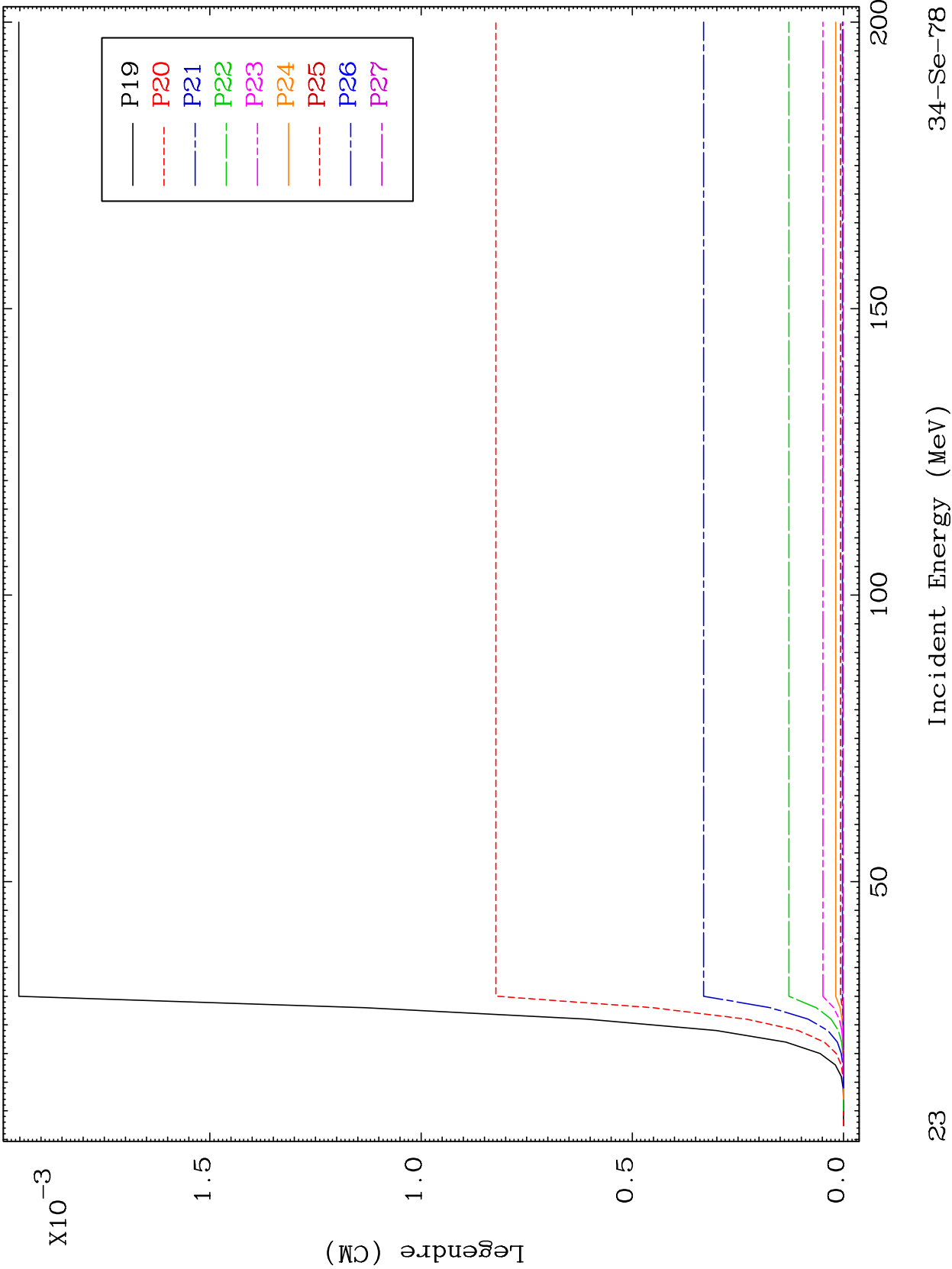
Incident Energy (MeV)

34-Se-78

MAT 3437

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

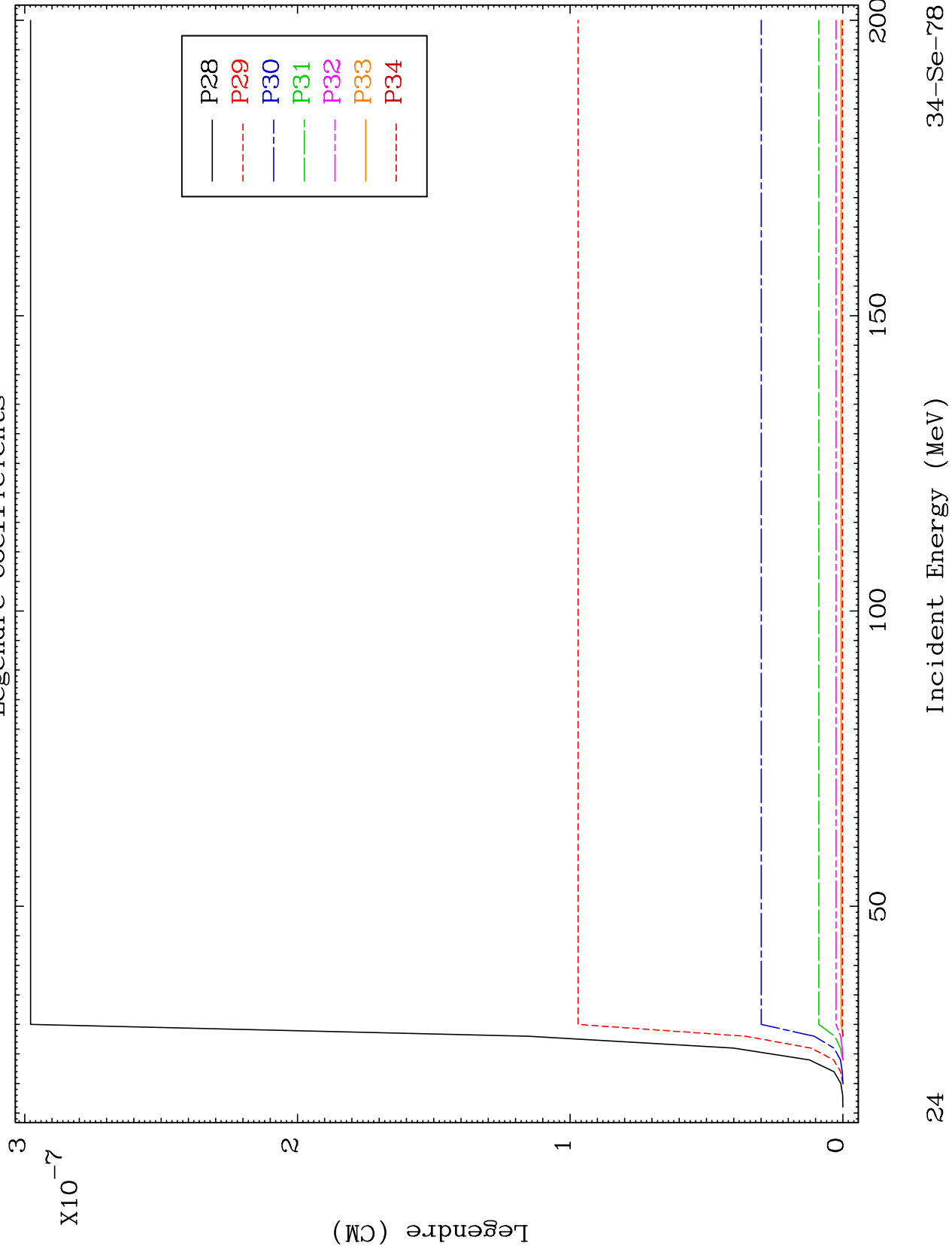
<sup>34</sup>Se-78



MAT 3437

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

34-Se-78



24

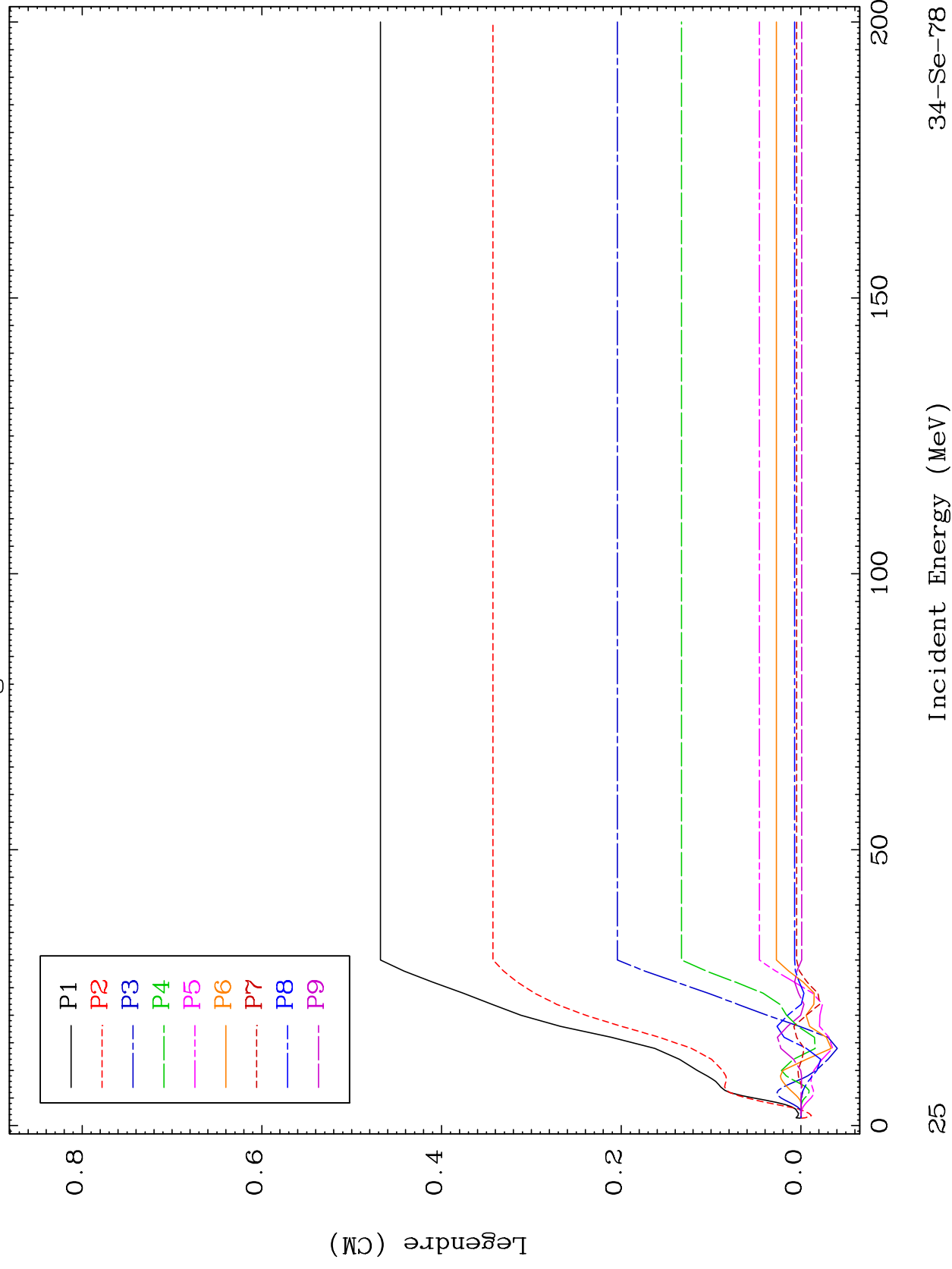
Incident Energy (MeV)

34-Se-78

MAT 3437

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

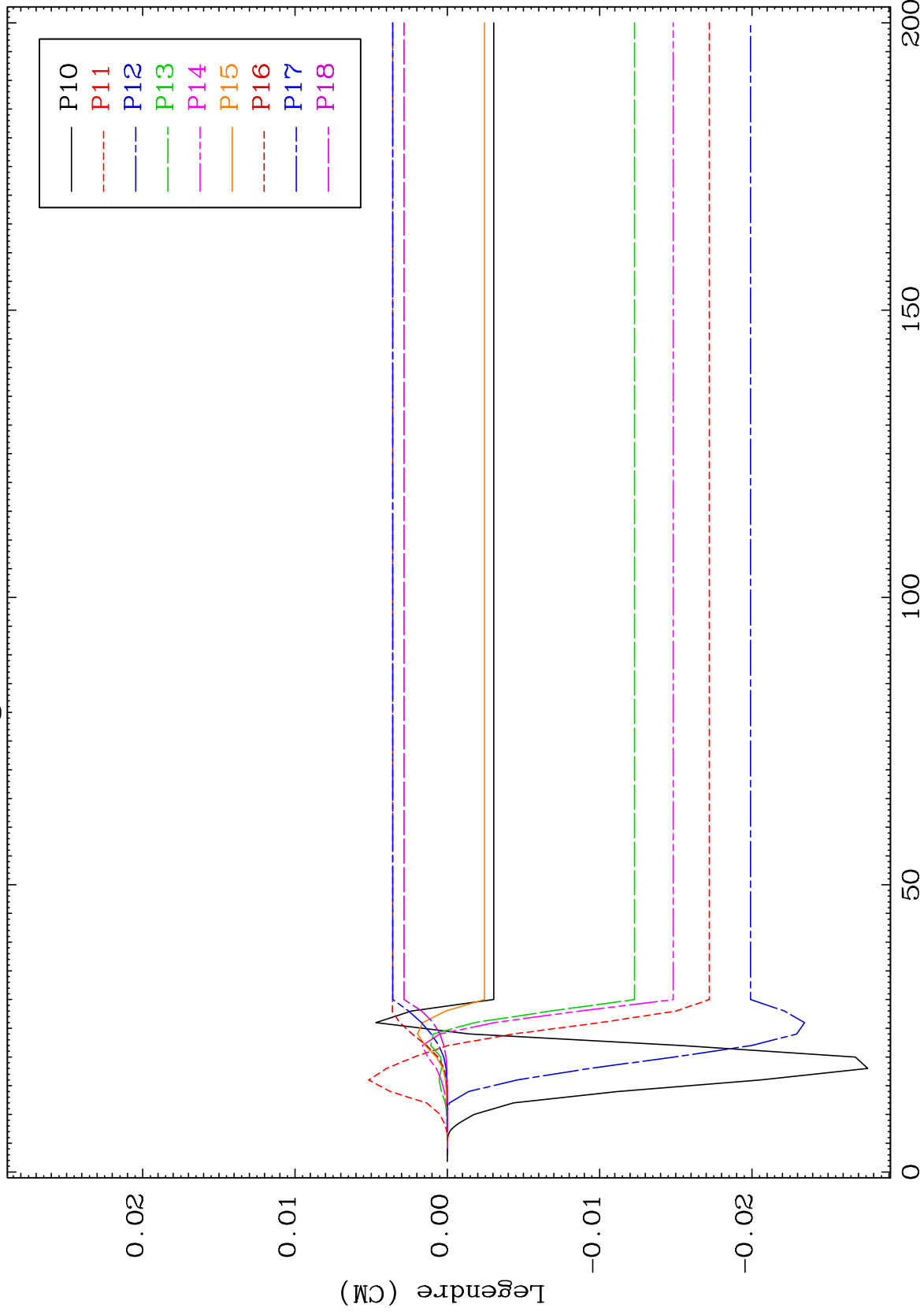
<sup>34</sup>Se-78



MAT 3437

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

<sup>34</sup>Se-78



26

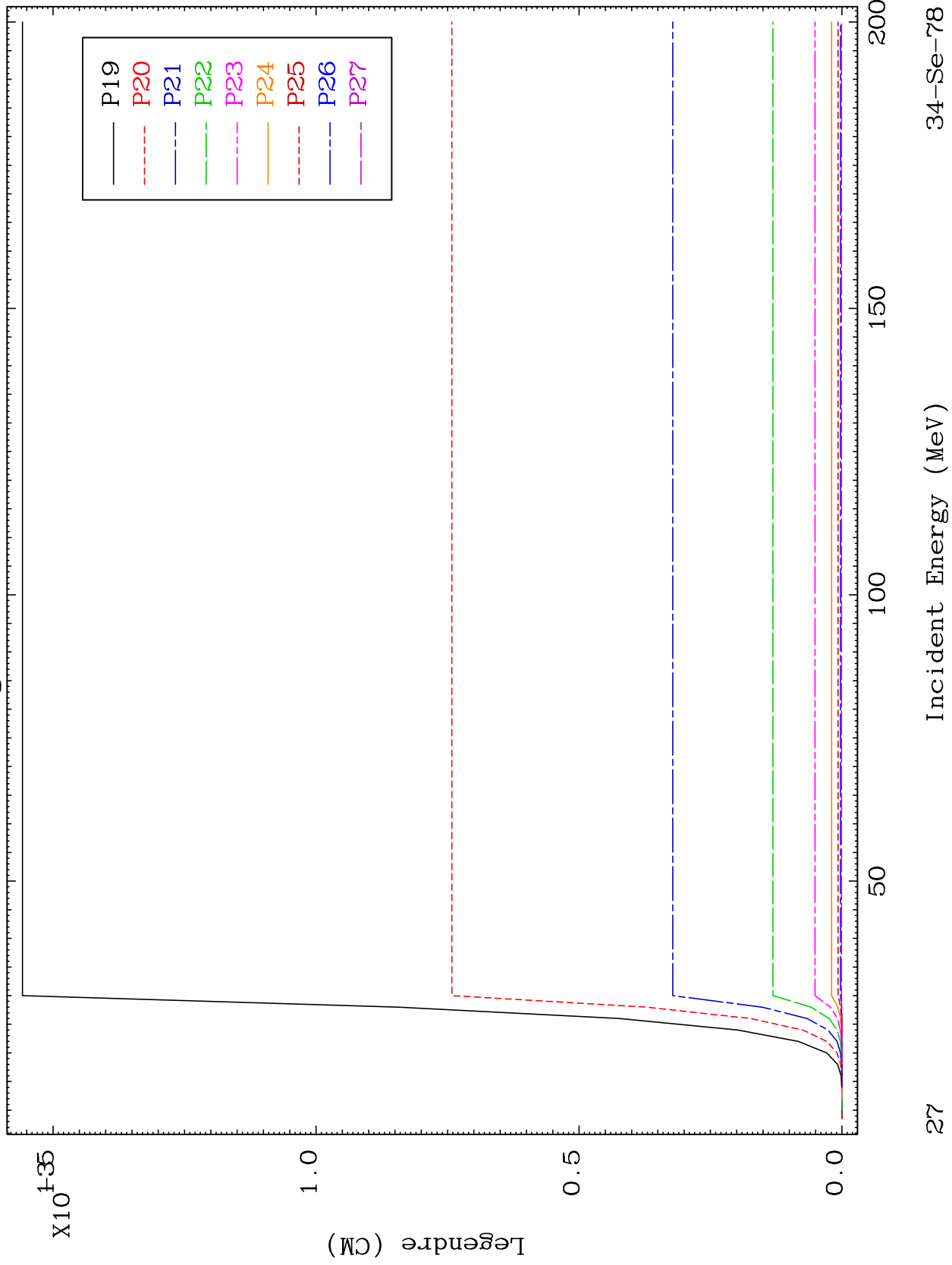
Incident Energy (MeV)

<sup>34</sup>Se-78

MAT 3437

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

34-Se-78



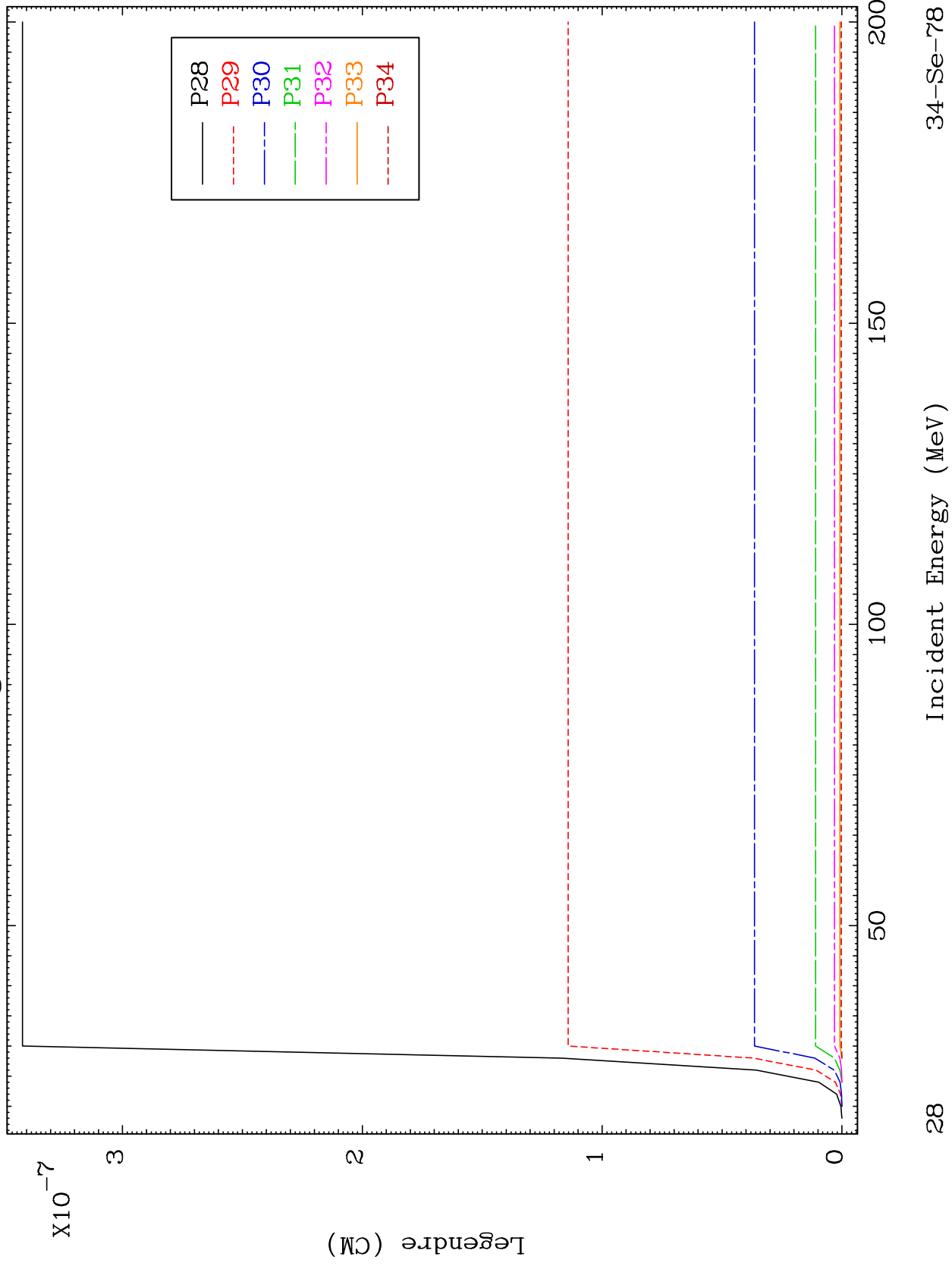
27

34-Se-78

MAT 3437

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

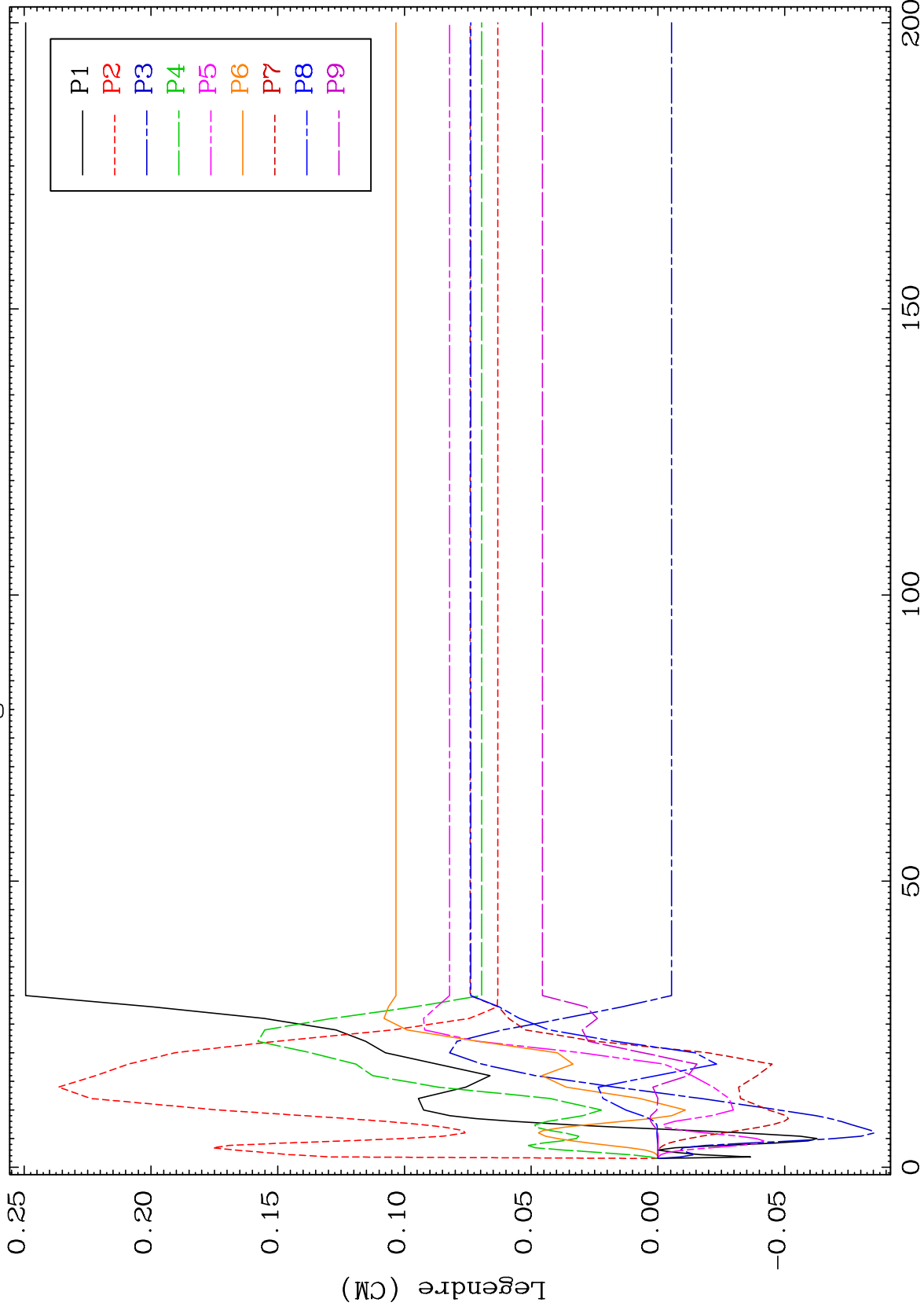
<sup>34</sup>Se-78



MAT 3437

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

34-Se-78



29

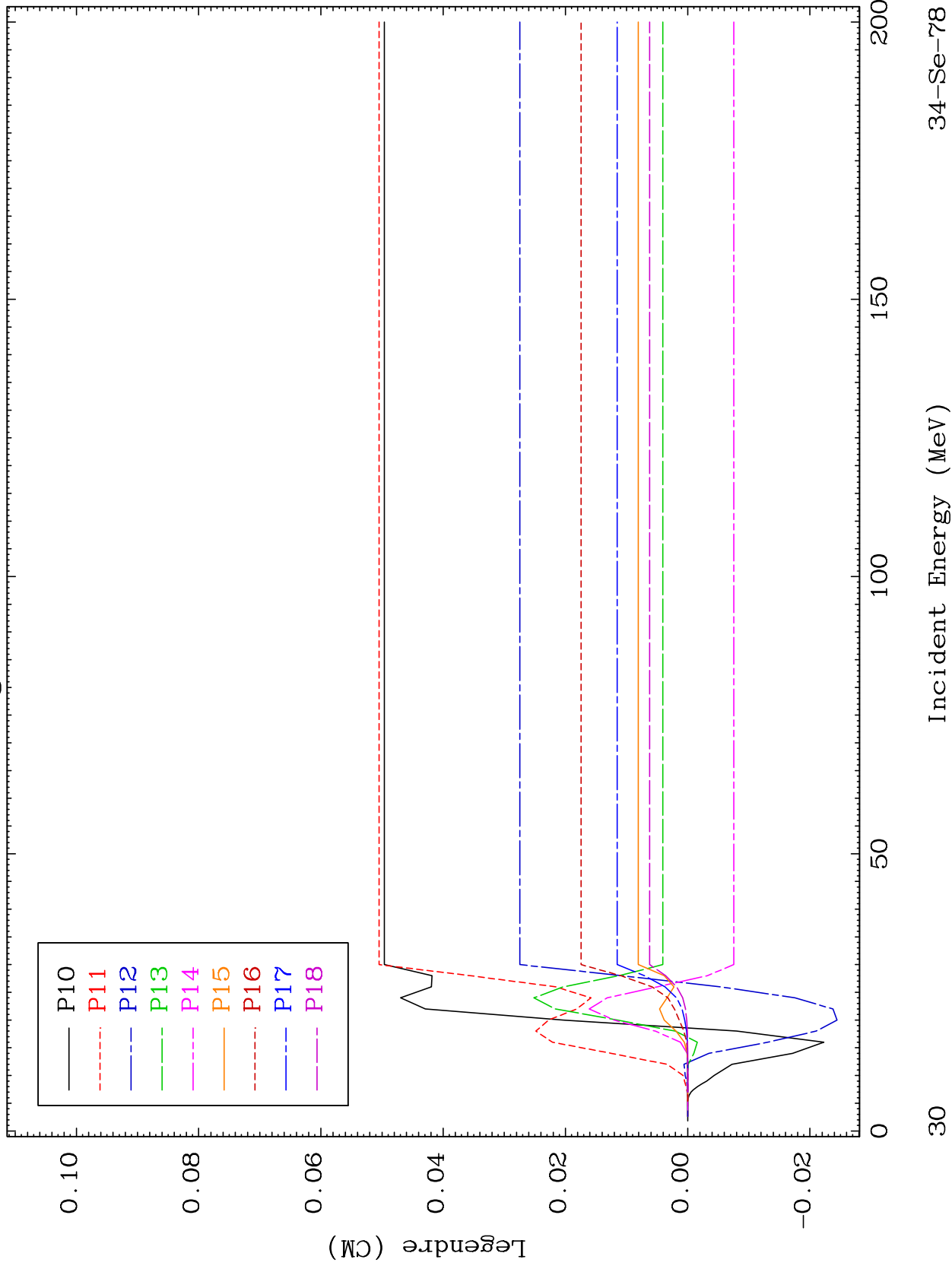
Incident Energy (MeV)

34-Se-78

MAT 3437

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

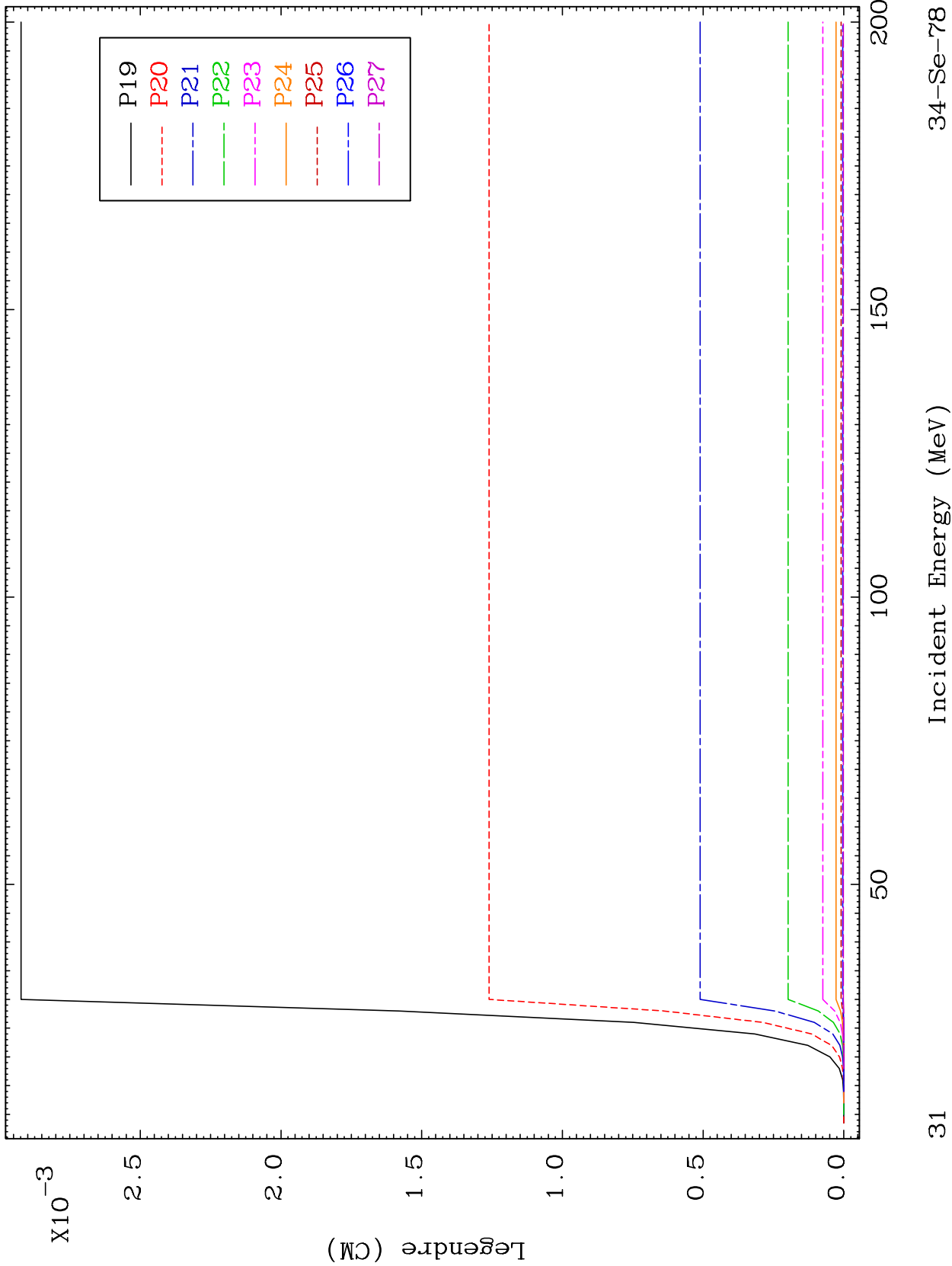
34-Se-78



MAT 3437

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

34-Se-78



31

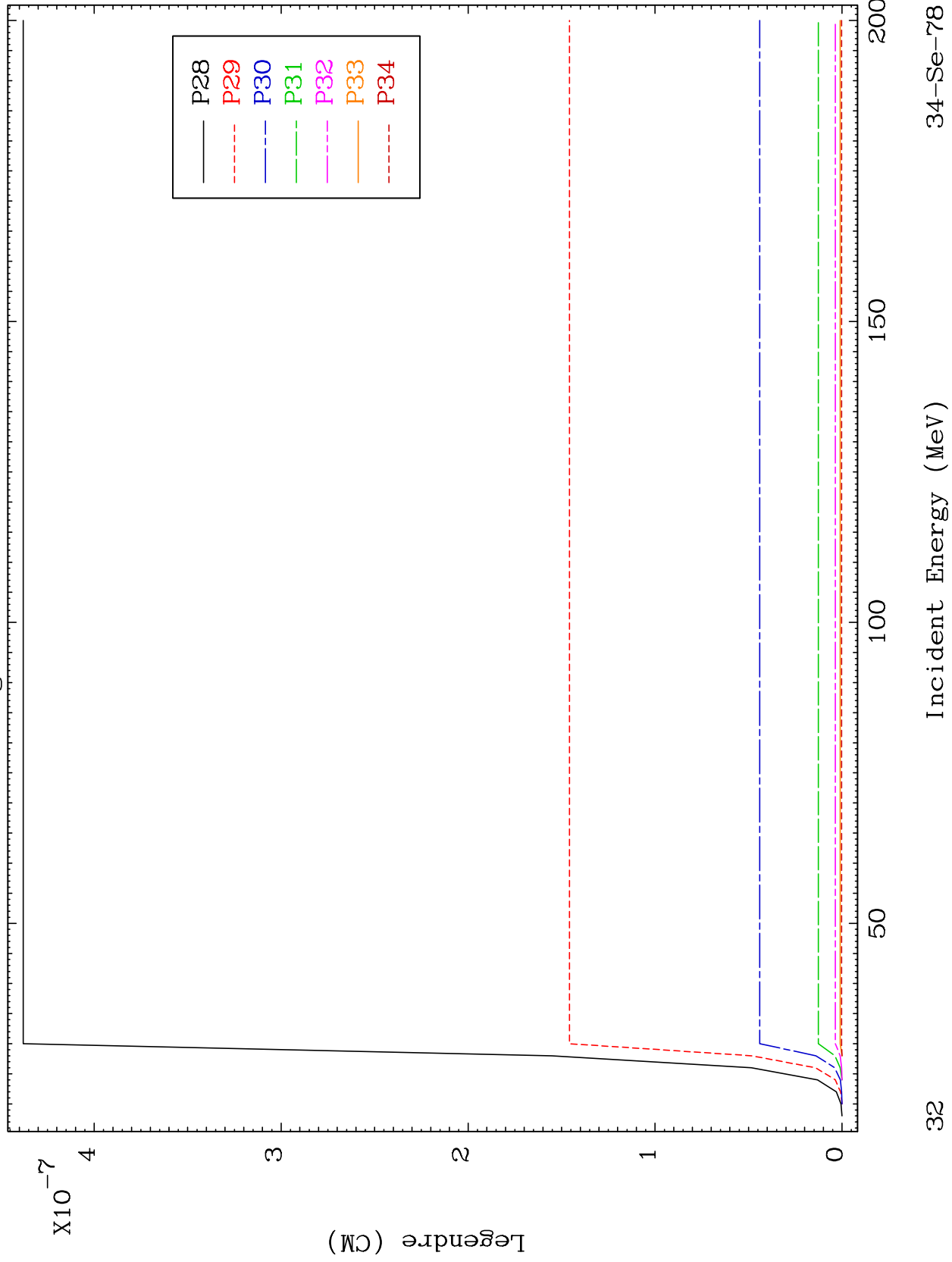
Incident Energy (MeV)

34-Se-78

MAT 3437

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

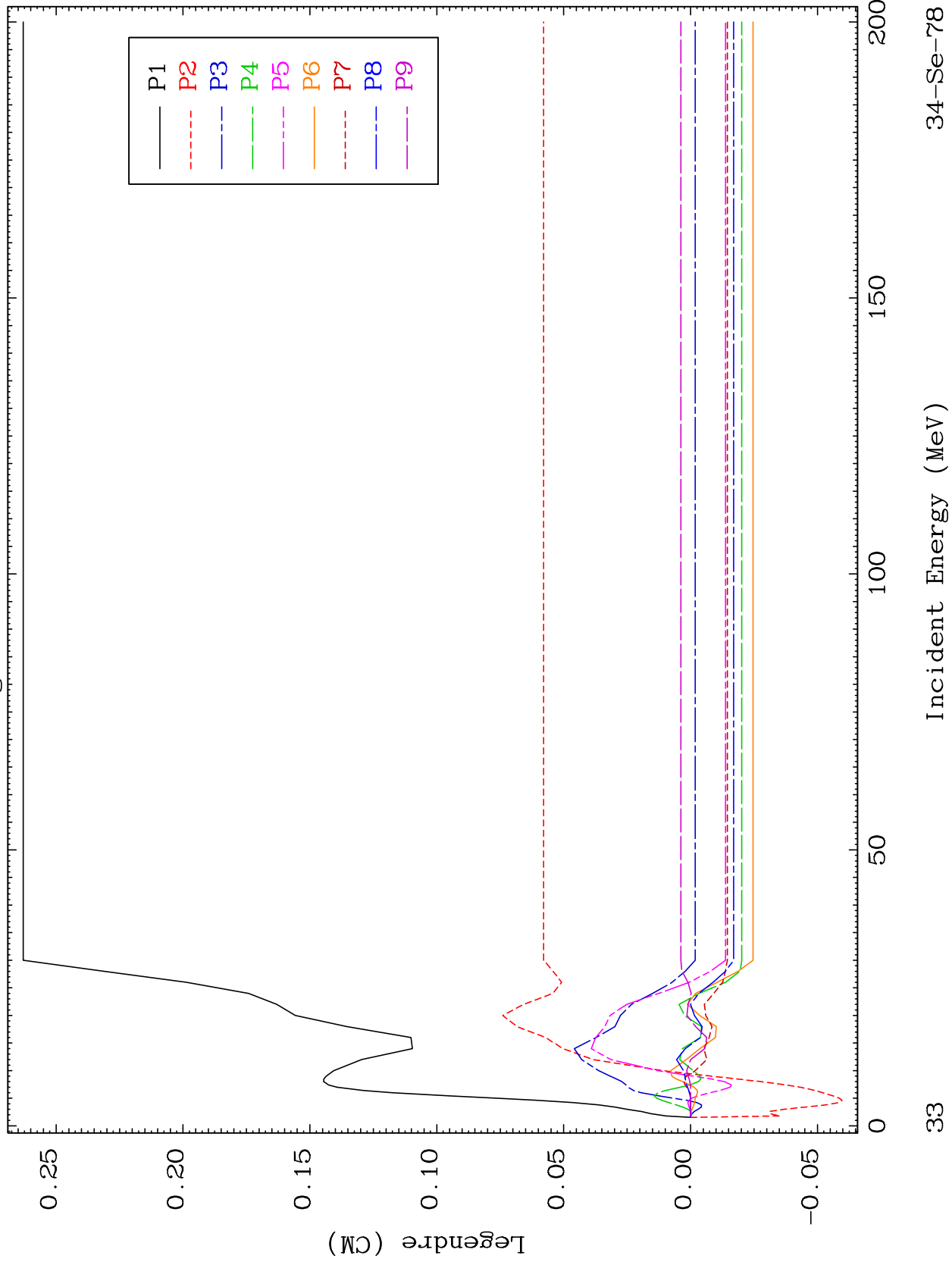
<sup>34</sup>Se-78



MAT 3437

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

<sup>34</sup>Se-78



<sup>34</sup>Se-78

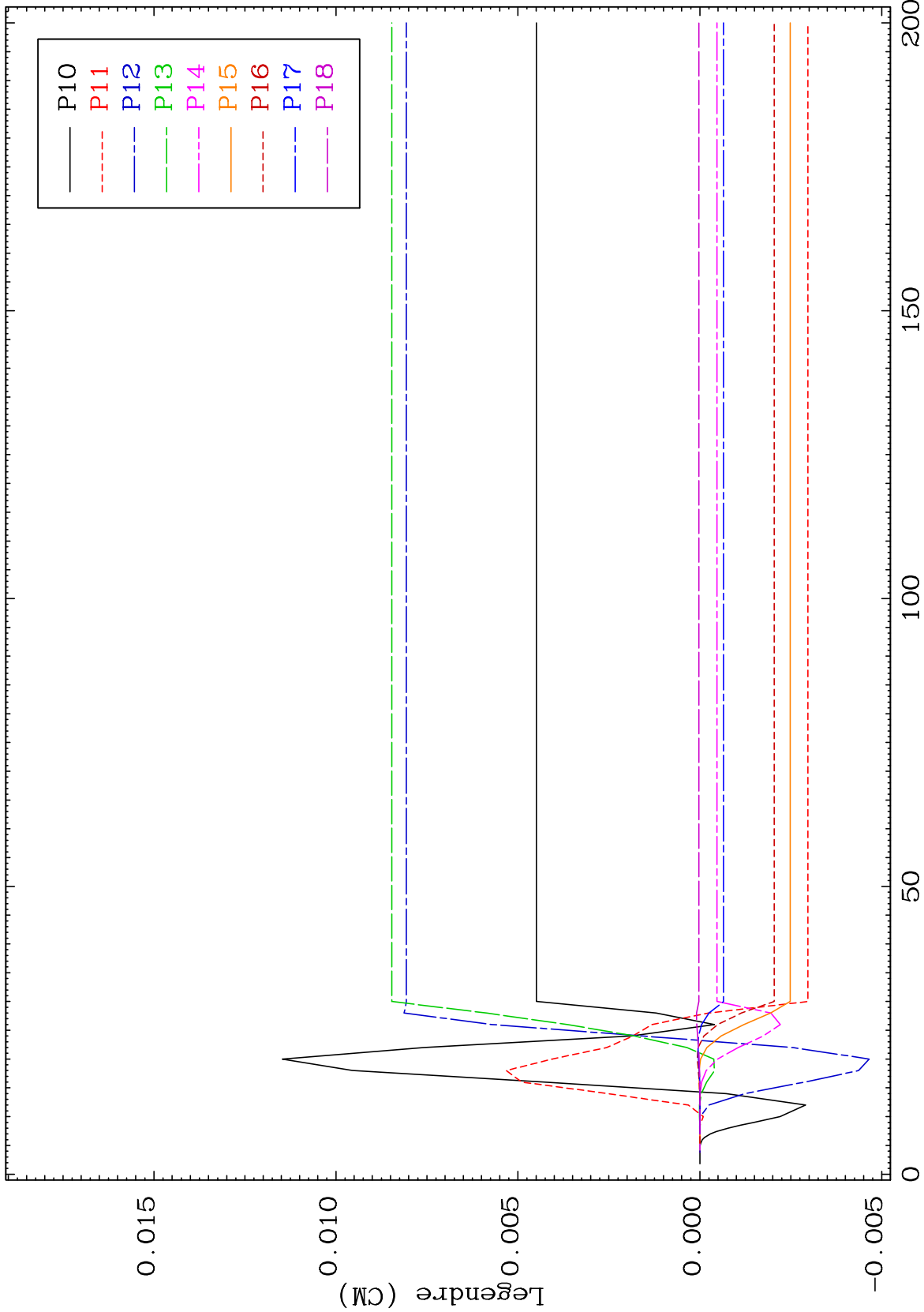
Incident Energy (MeV)

33

MAT 3437

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

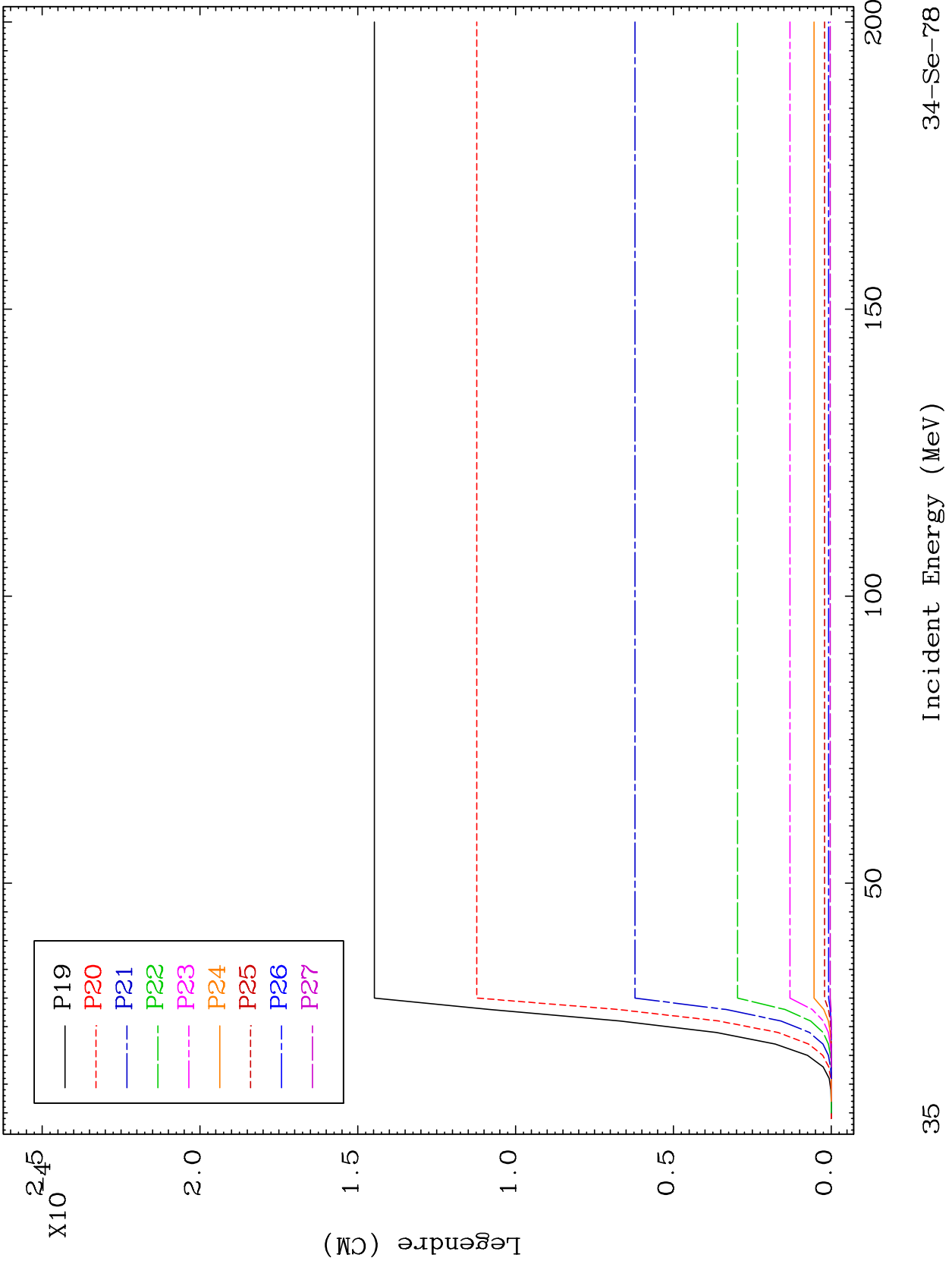
34-Se-78



34

Incident Energy (MeV)

34-Se-78



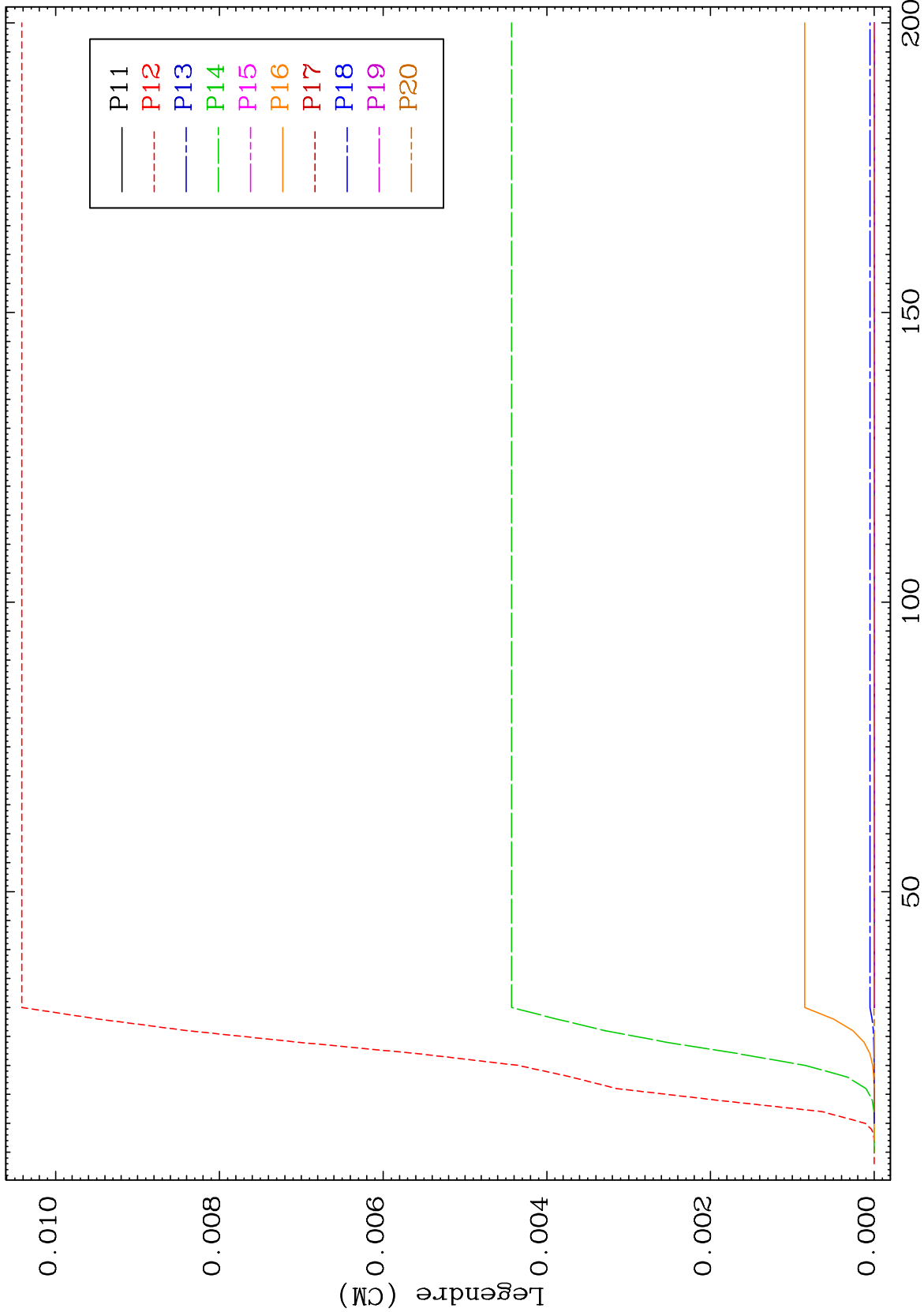




MAT 3437

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

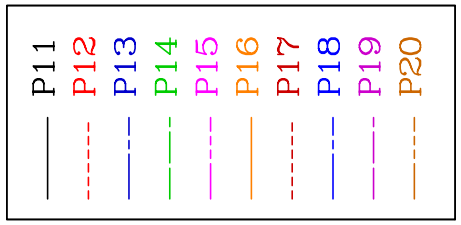
34-Se-78

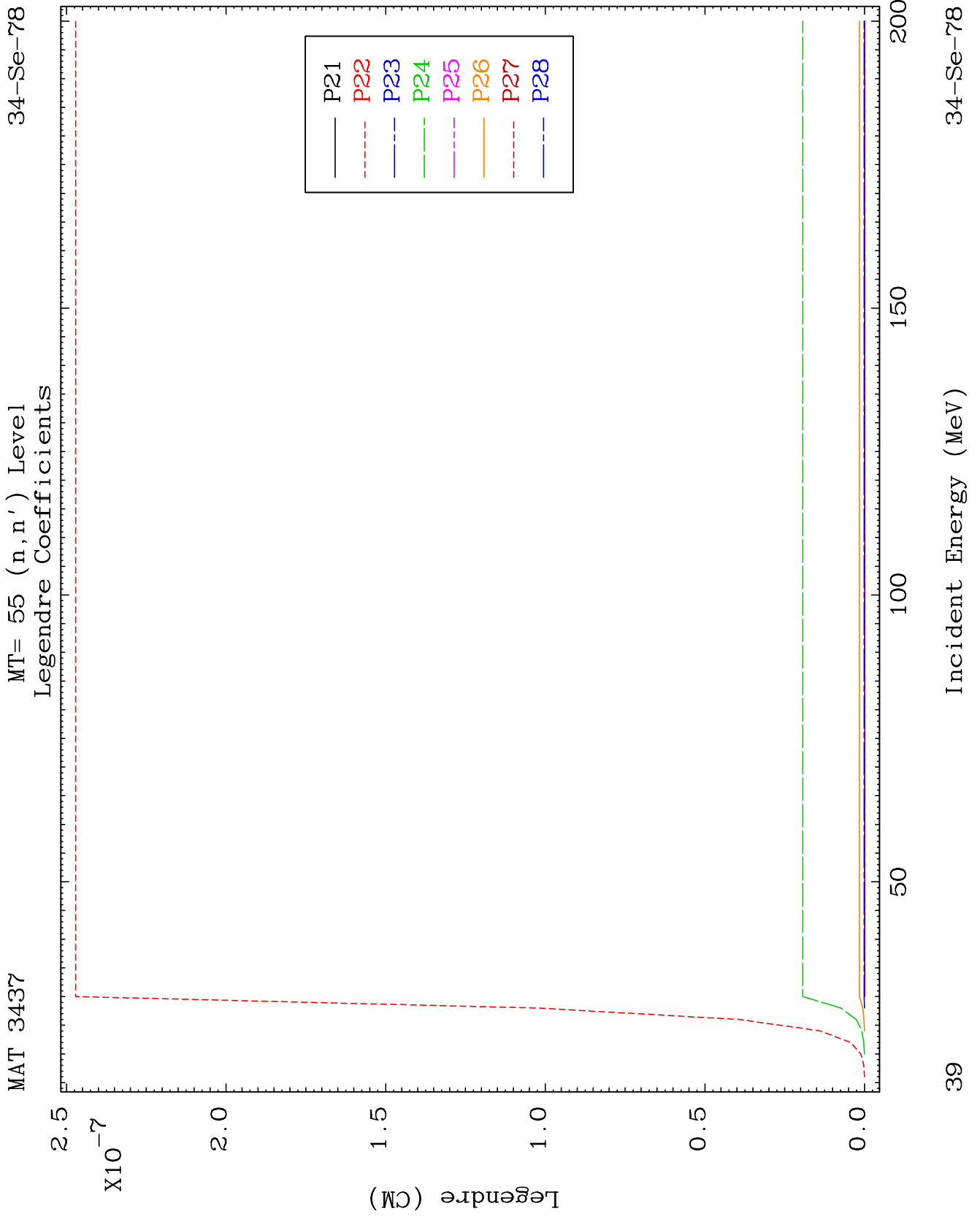


38

Incident Energy (MeV)

34-Se-78

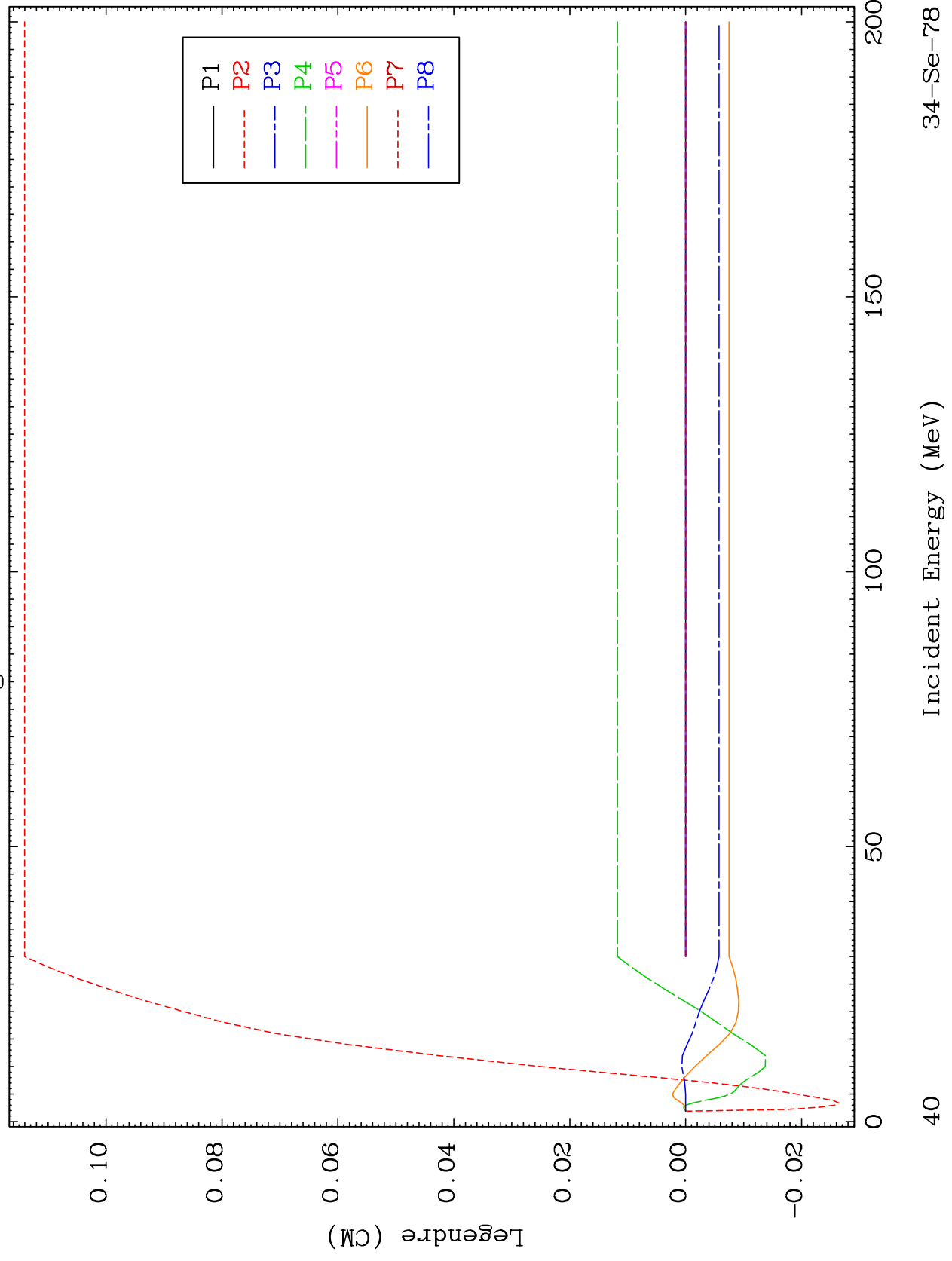




MAT 3437

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

<sup>34</sup>Se-78

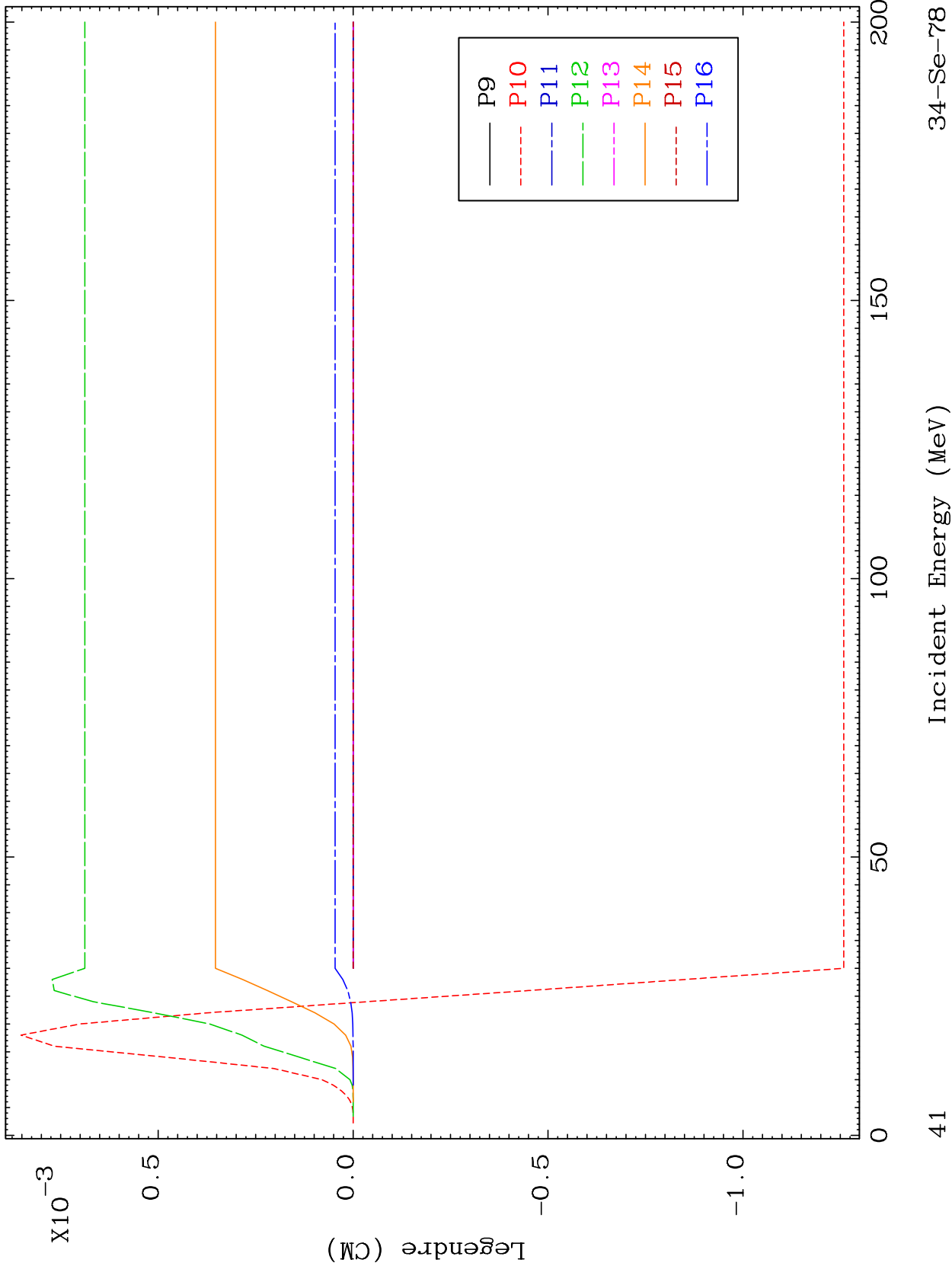


<sup>34</sup>Se-78

MAT 3437

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

<sup>34</sup>Se-78



41

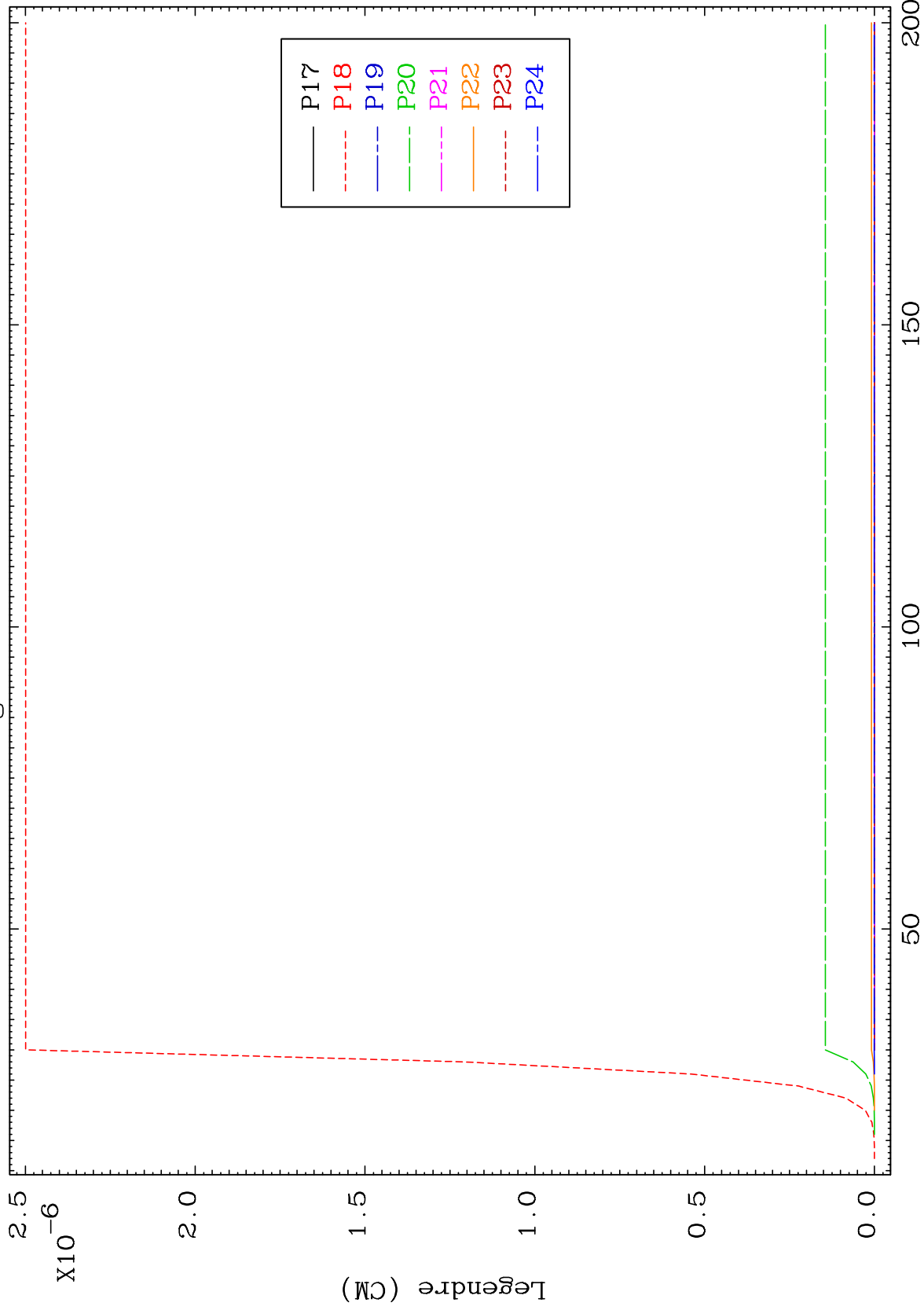
Incident Energy (MeV)

<sup>34</sup>Se-78

MAT 3437

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

34-Se-78



42

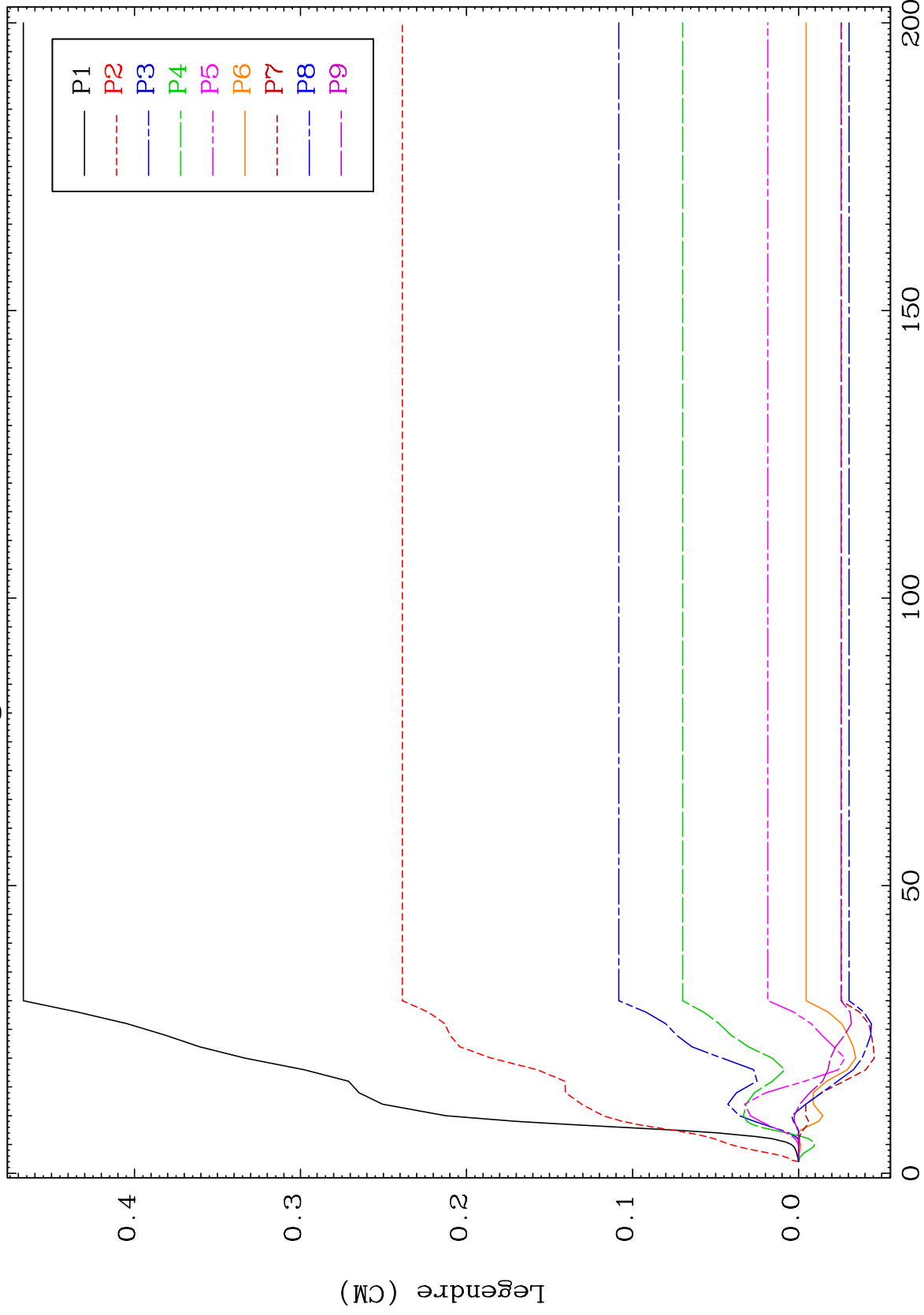
Incident Energy (MeV)

34-Se-78

MAT 3437

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

<sup>34</sup>Se-78



43

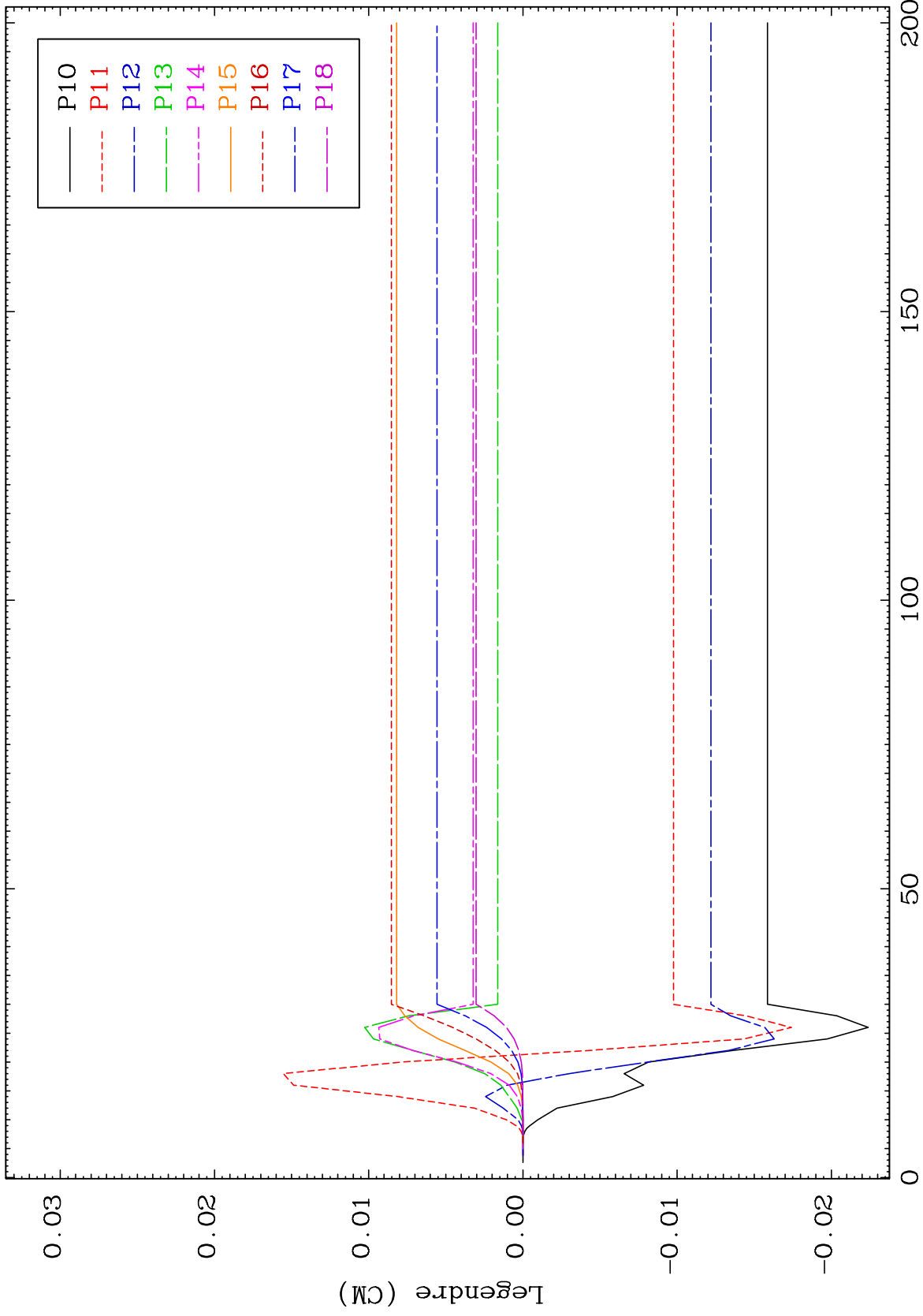
Incident Energy (MeV)

<sup>34</sup>Se-78

MAT 3437

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

<sup>34</sup>Se-78



44

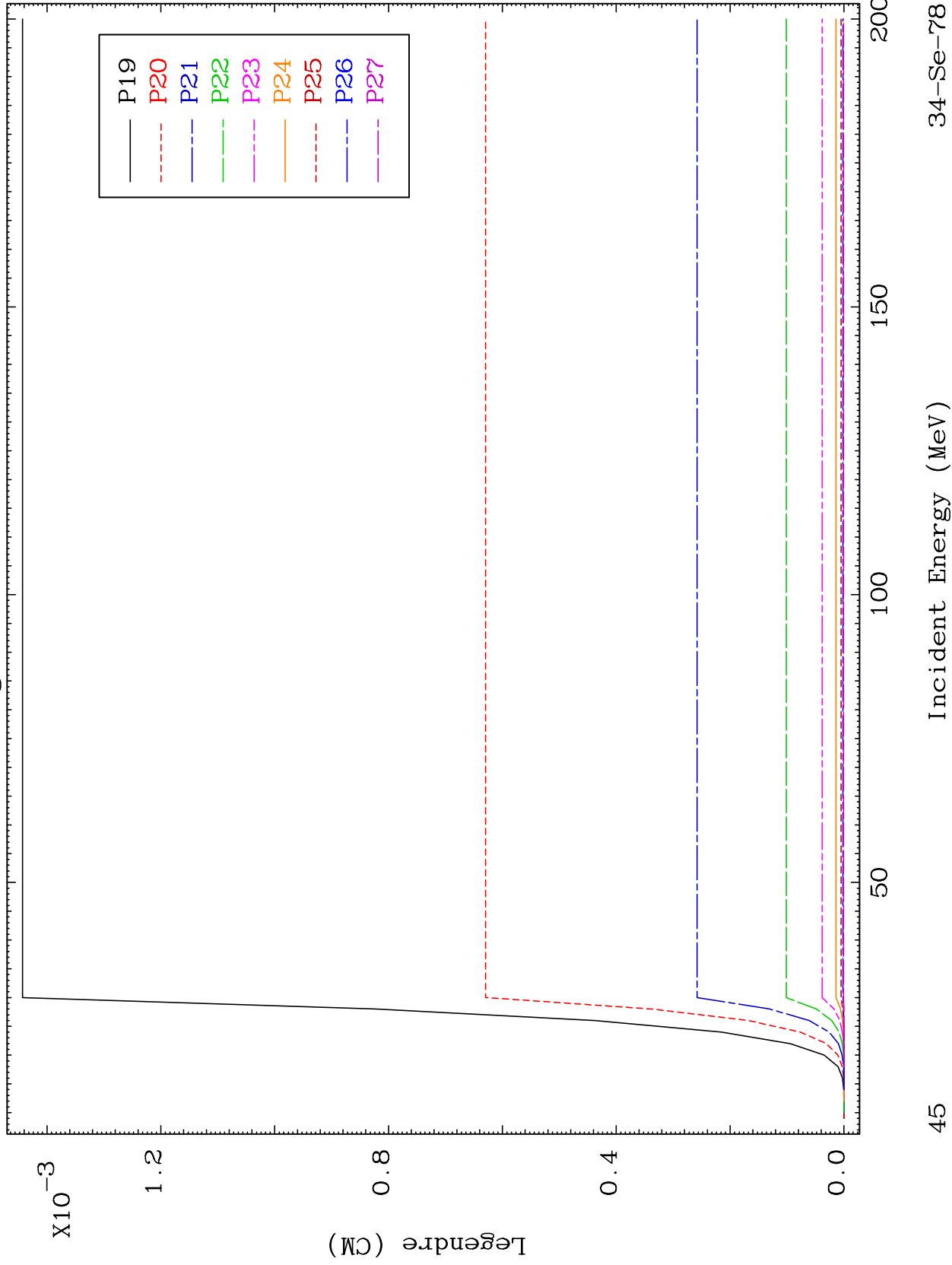
Incident Energy (MeV)

<sup>34</sup>Se-78

MAT 3437

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

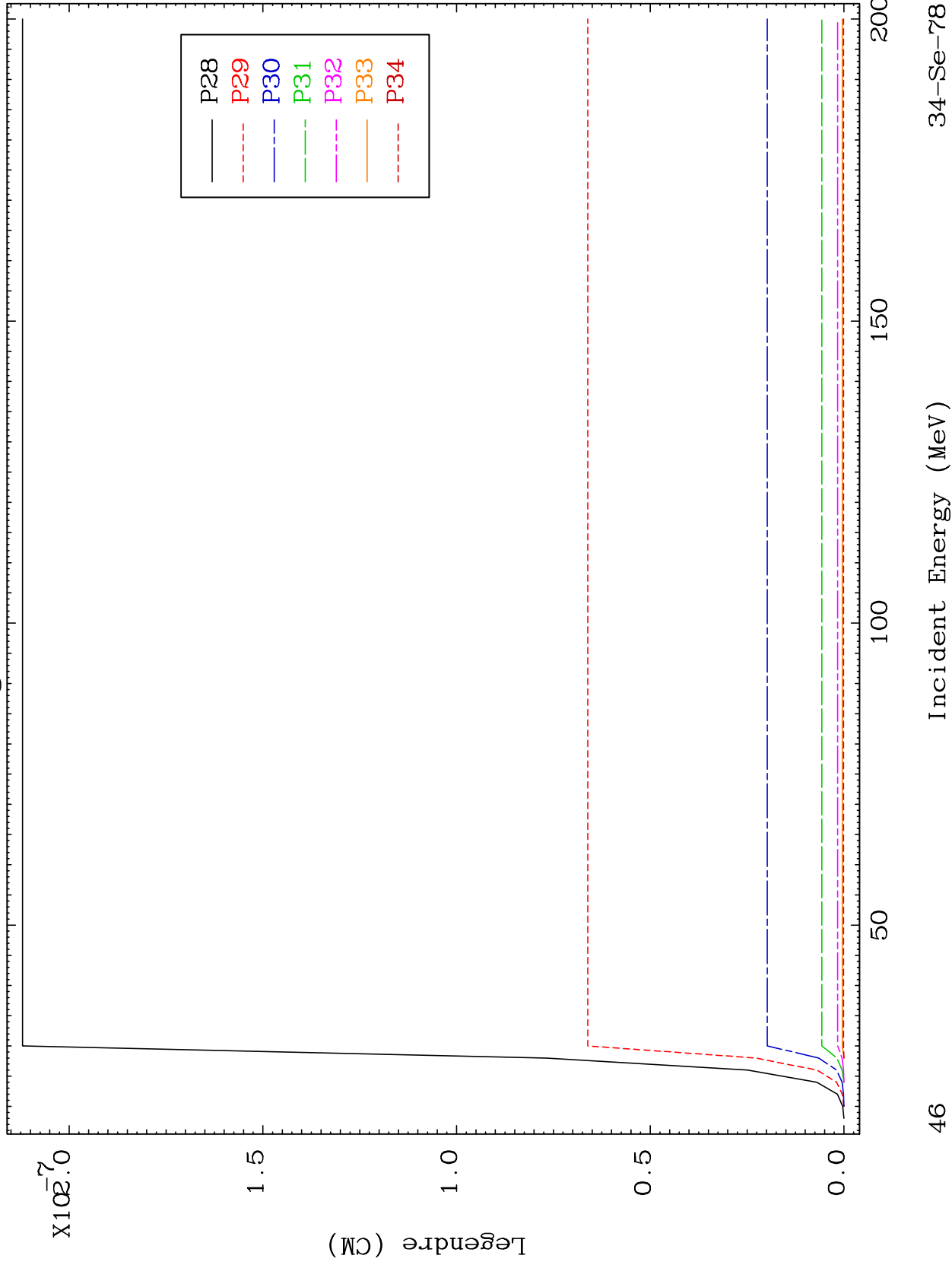
34-Se-78



MAT 3437

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

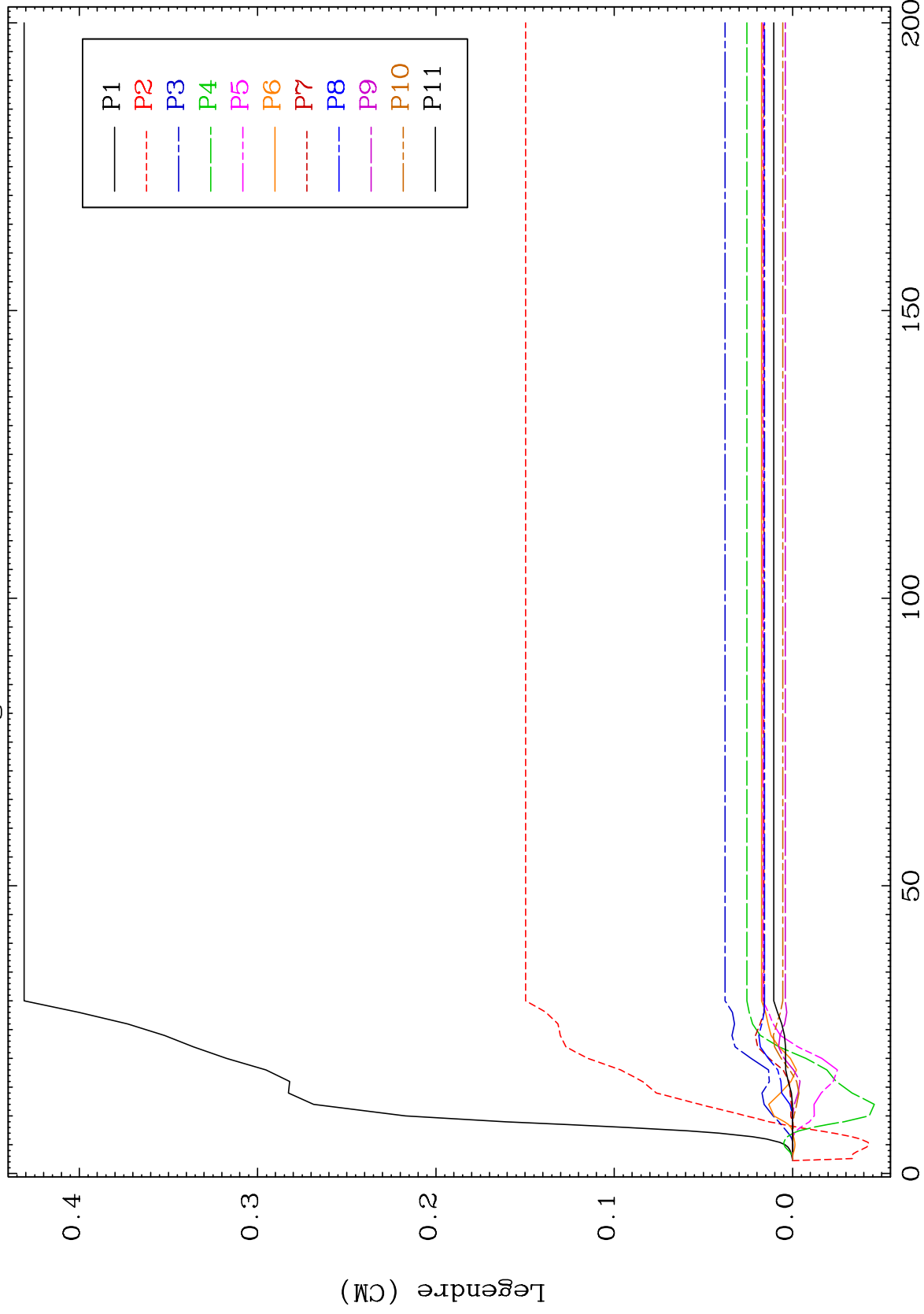
34-Se-78



MAT 3437

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

<sup>34</sup>Se-78



47

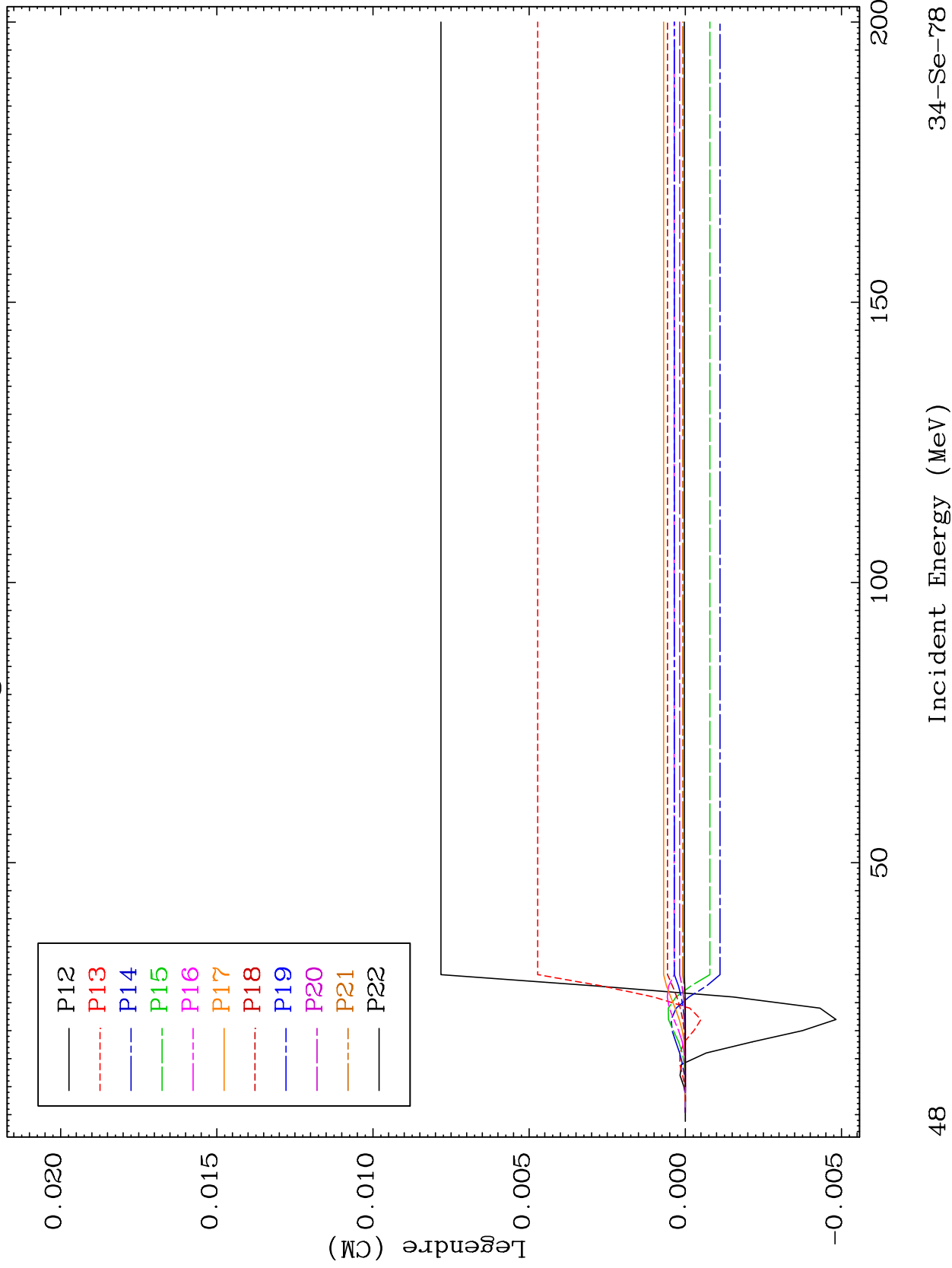
Incident Energy (MeV)

<sup>34</sup>Se-78

MAT 3437

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

34-Se-78



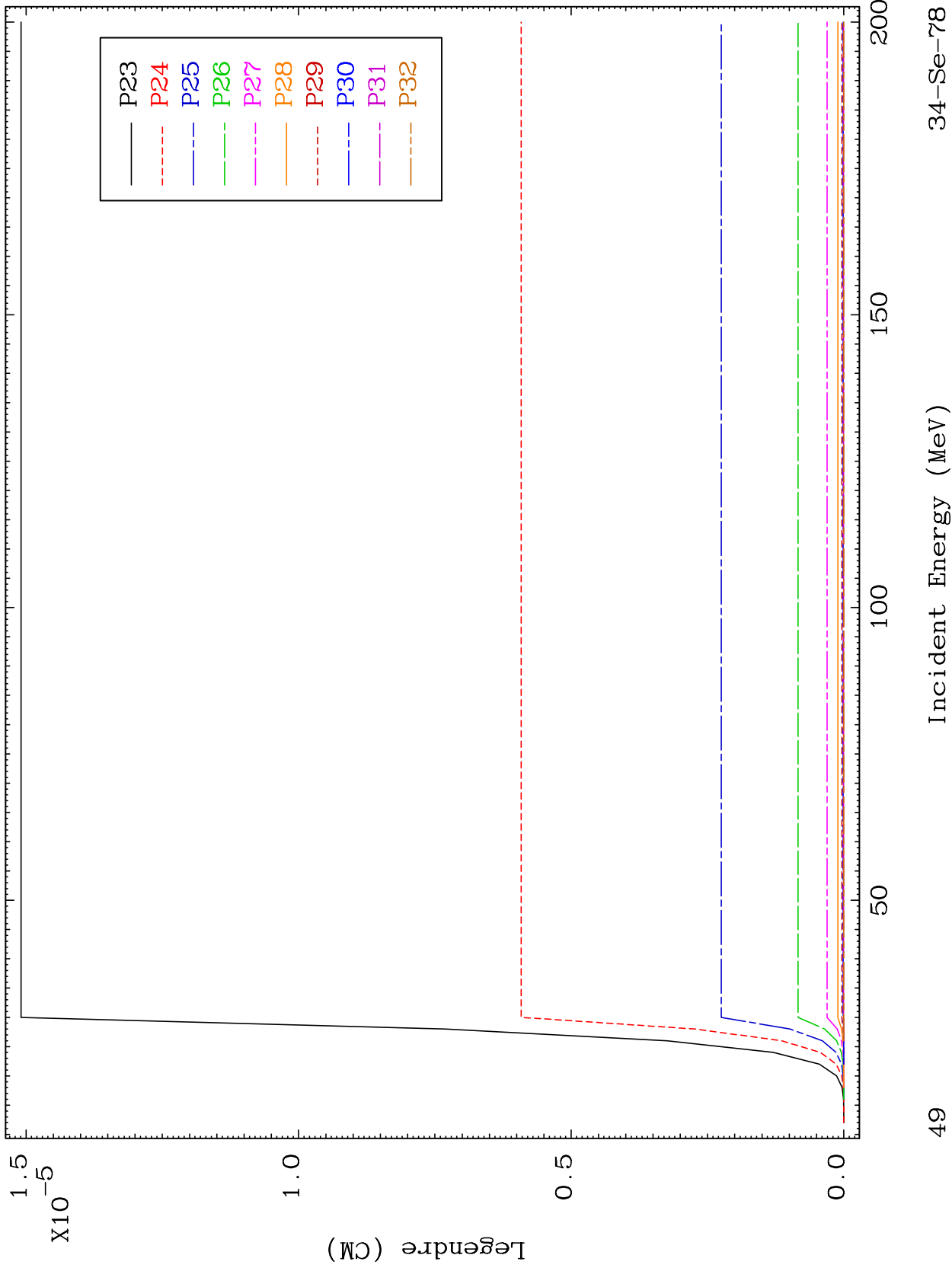
48

34-Se-78

MAT 3437

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

34-Se-78



49

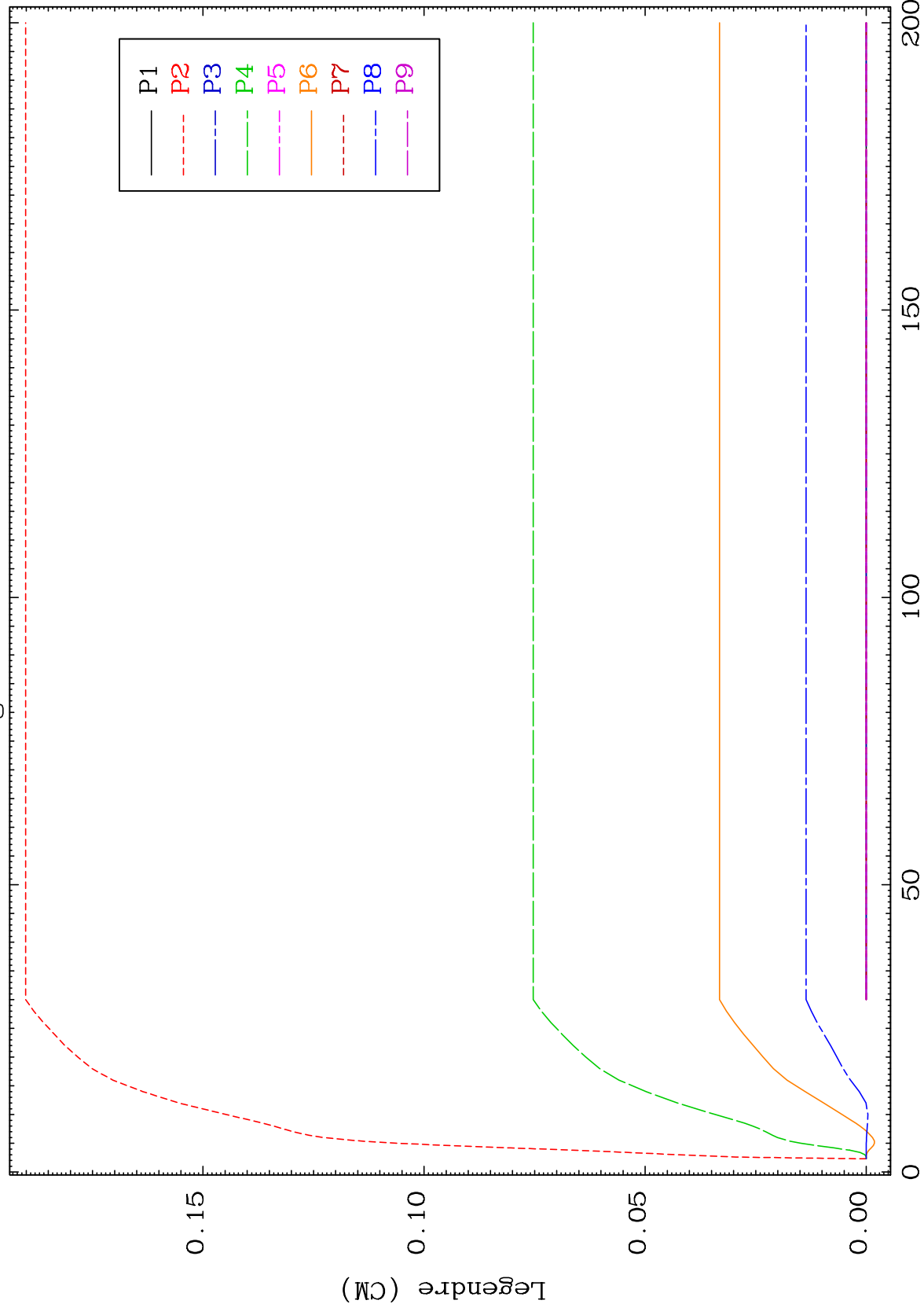
Incident Energy (MeV)

34-Se-78

MAT 3437

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

34-Se-78



34-Se-78

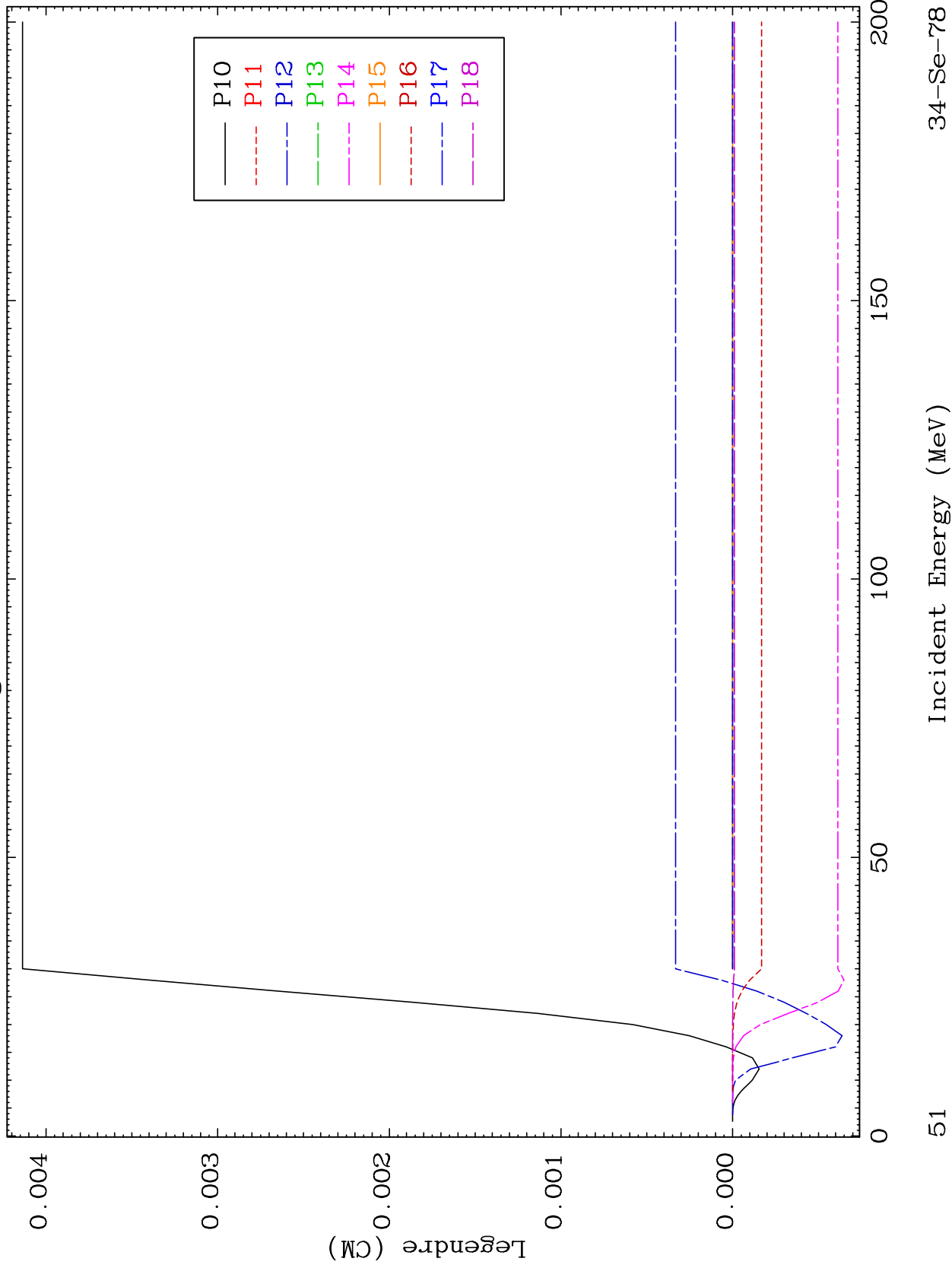
Incident Energy (MeV)

50

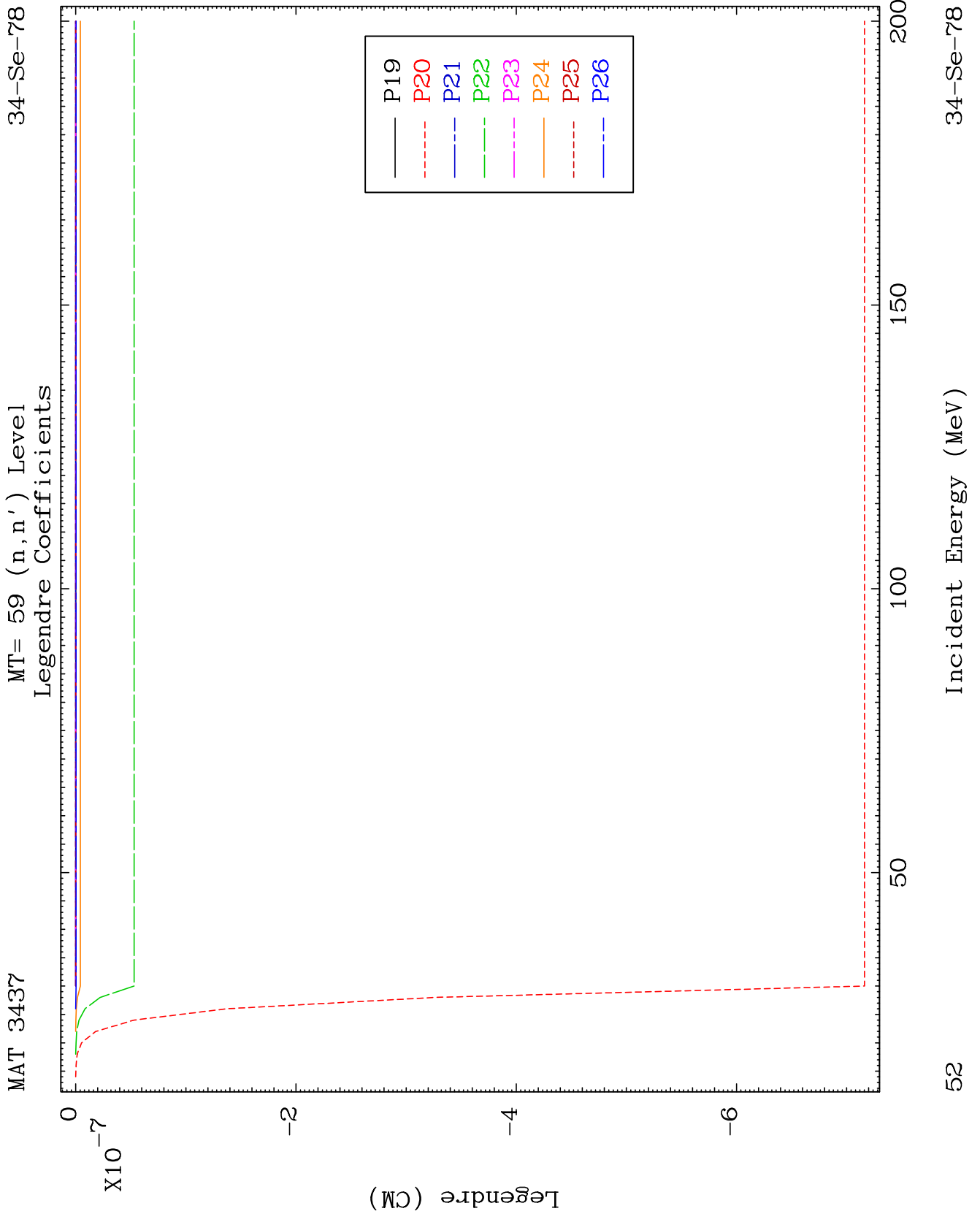
MAT 3437

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

<sup>34</sup>Se-78



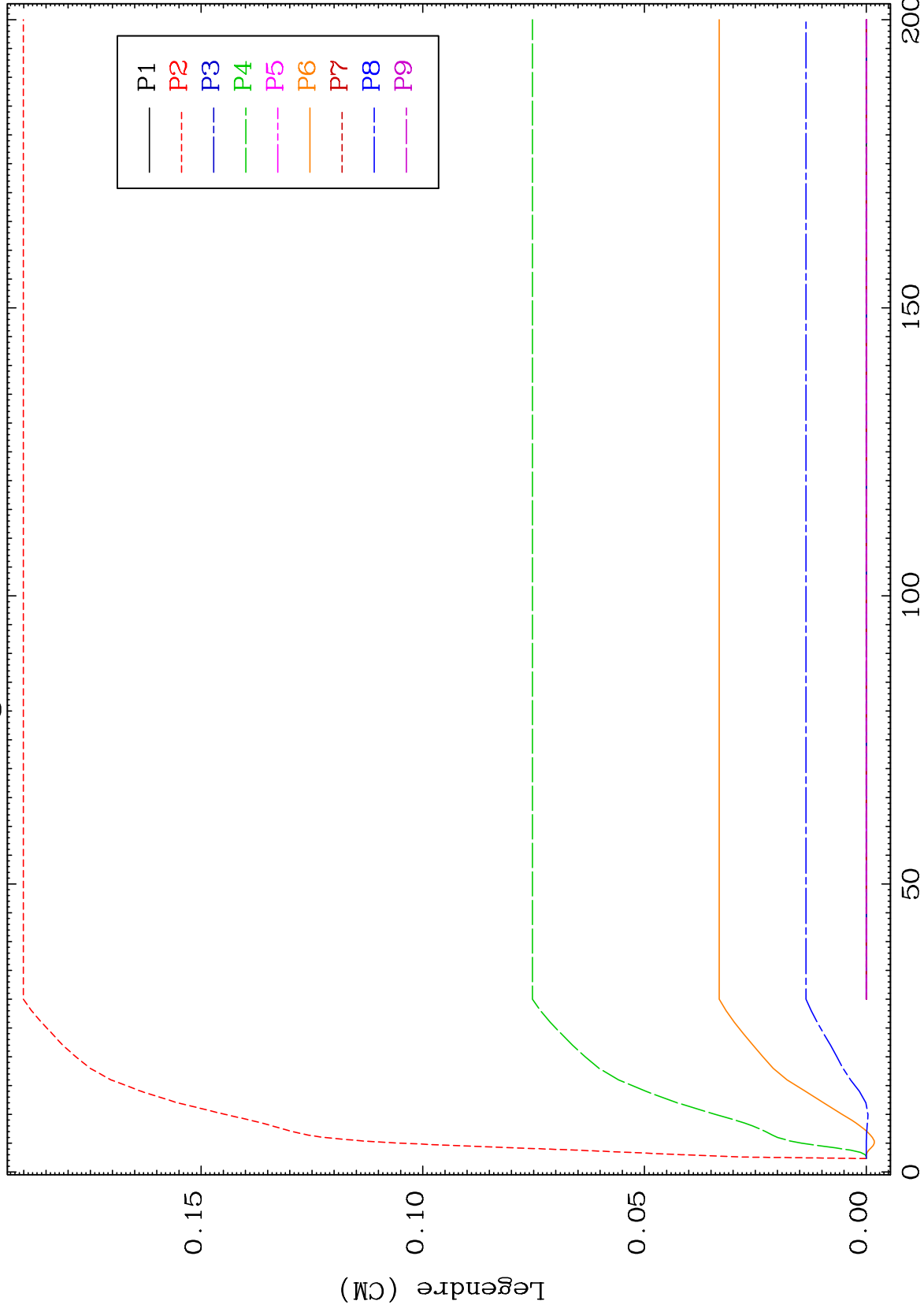
51



MAT 3437

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

34-Se-78



53

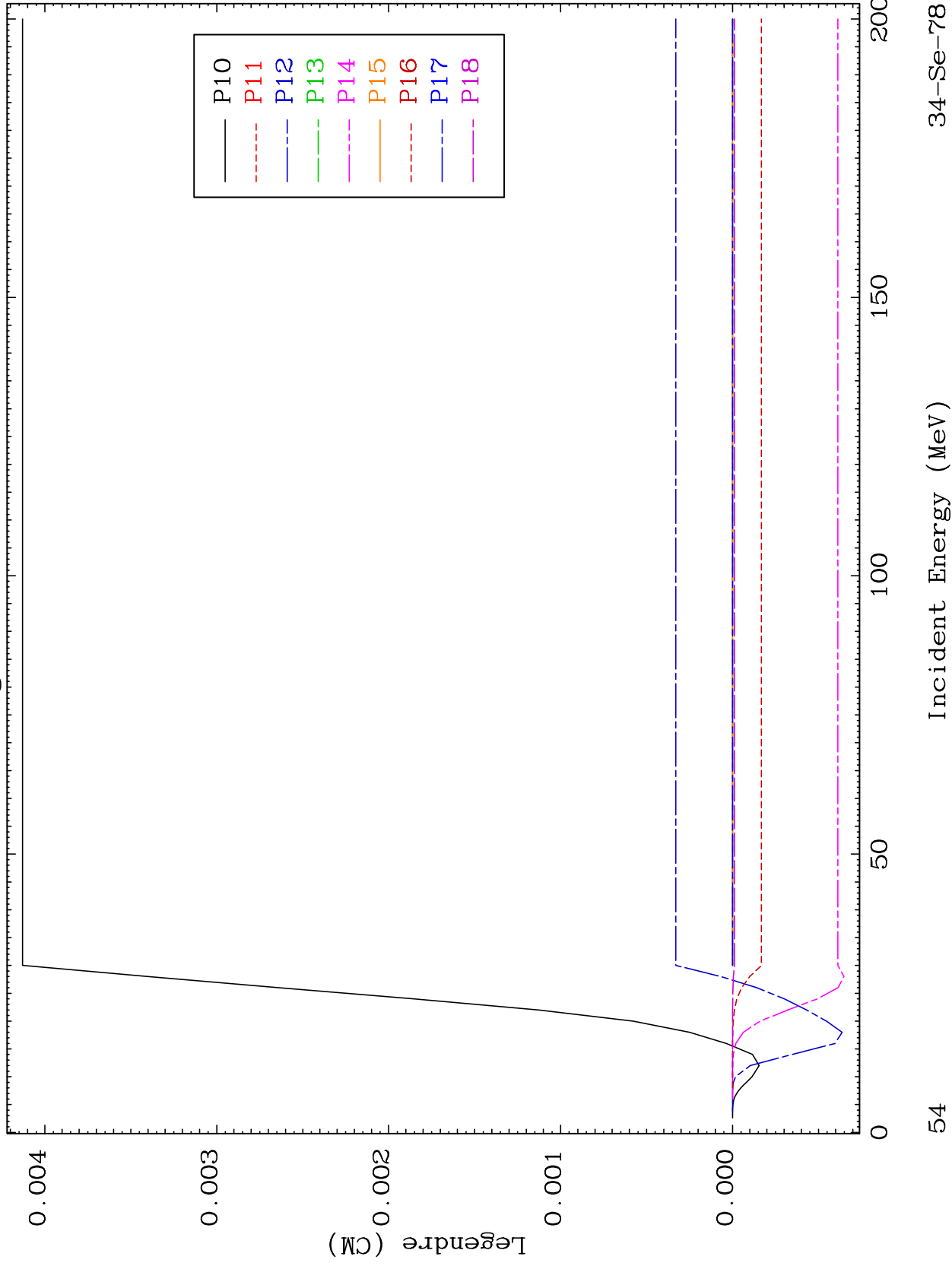
Incident Energy (MeV)

34-Se-78

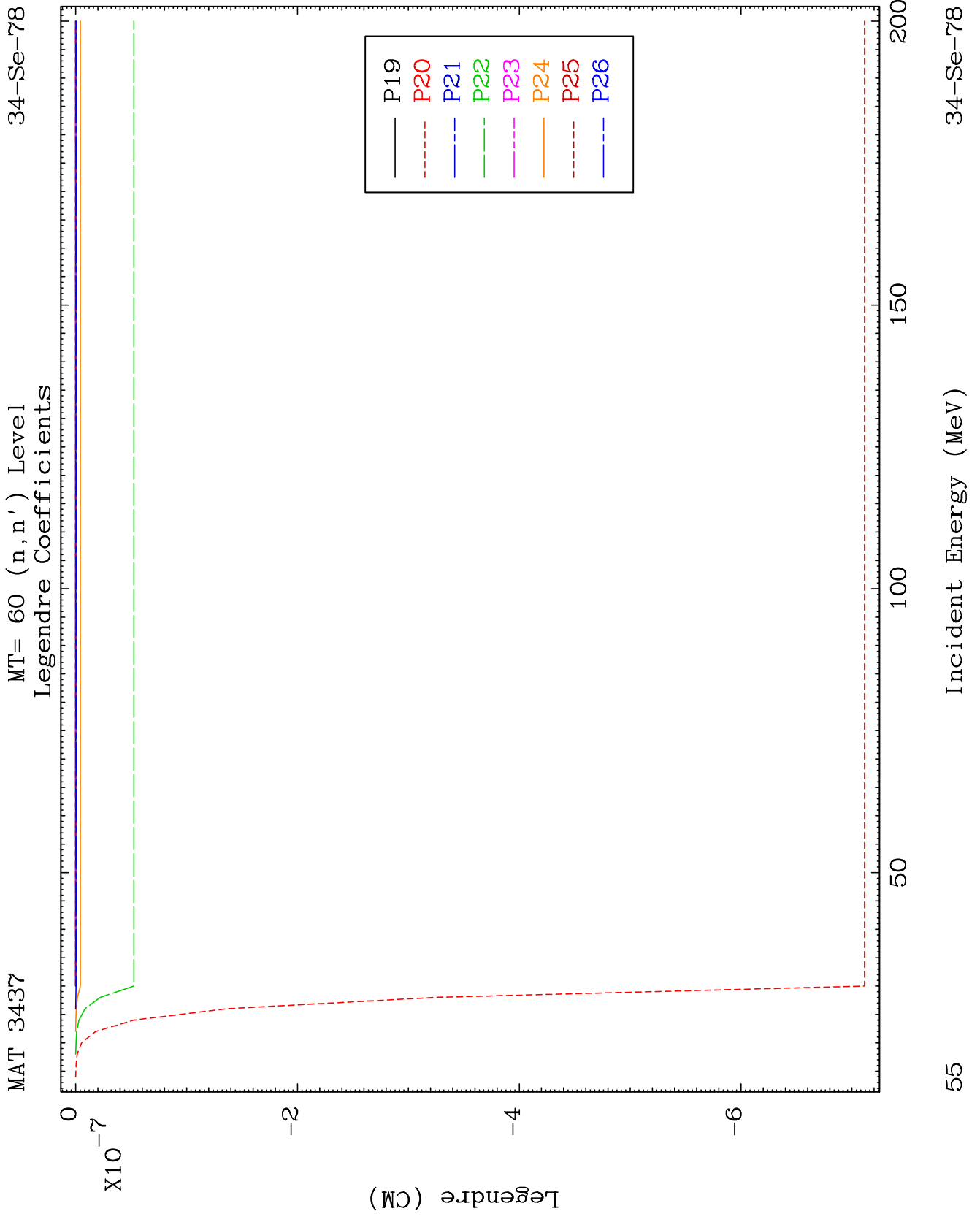
MAT 3437

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

<sup>34</sup>Se-78



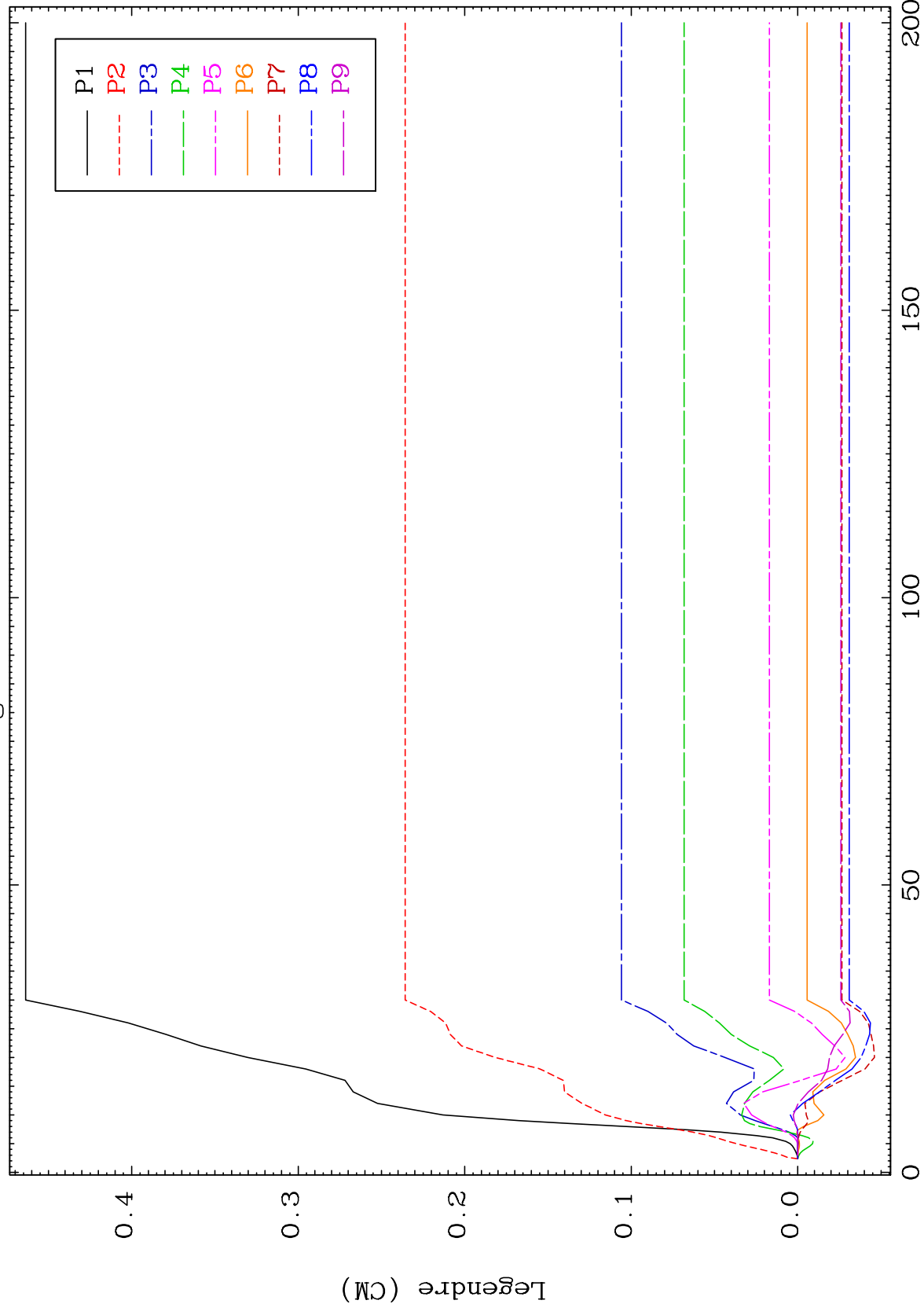
54



MAT 3437

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

<sup>34</sup>Se-78



56

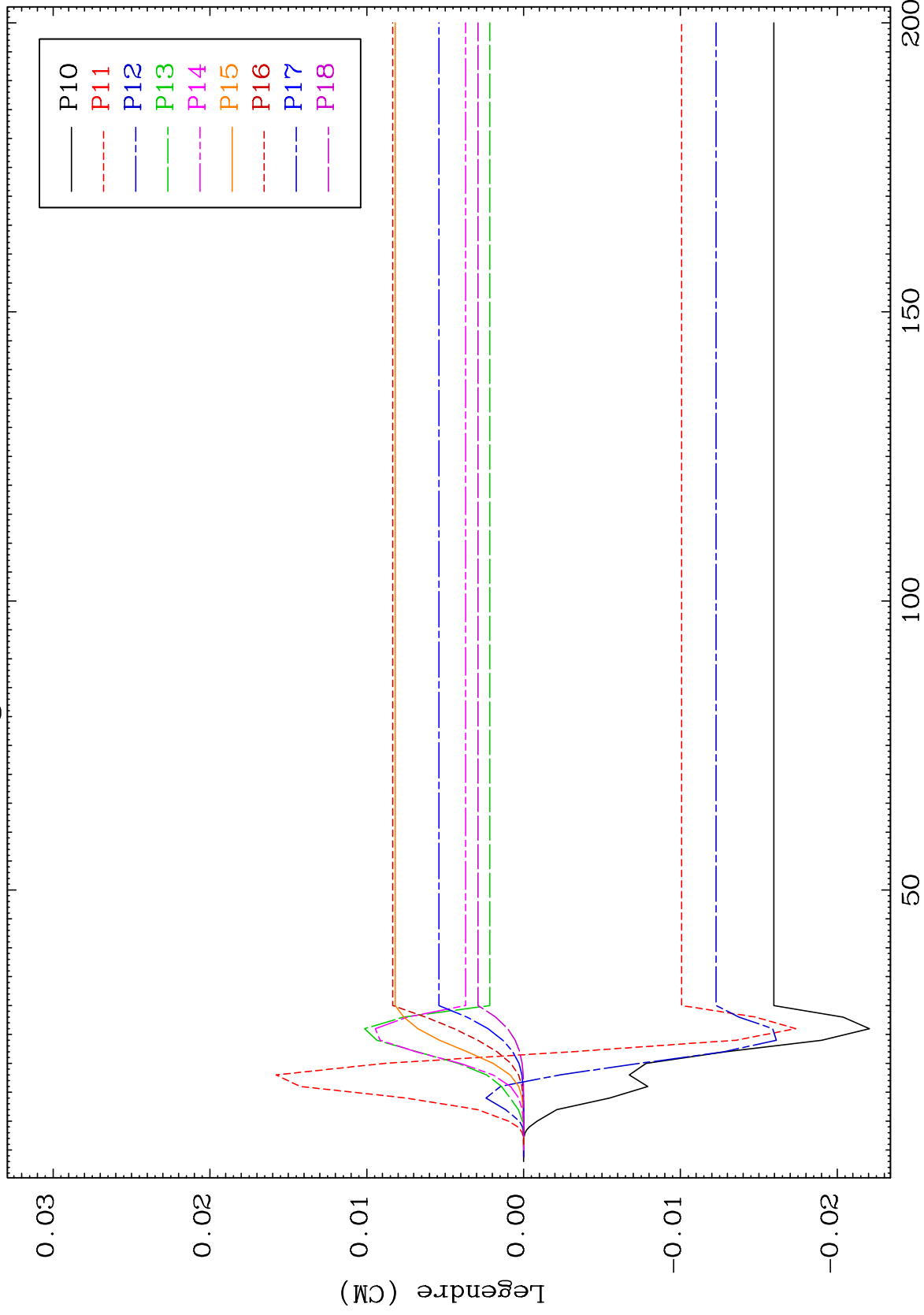
Incident Energy (MeV)

<sup>34</sup>Se-78

MAT 3437

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

<sup>34</sup>Se-78



57

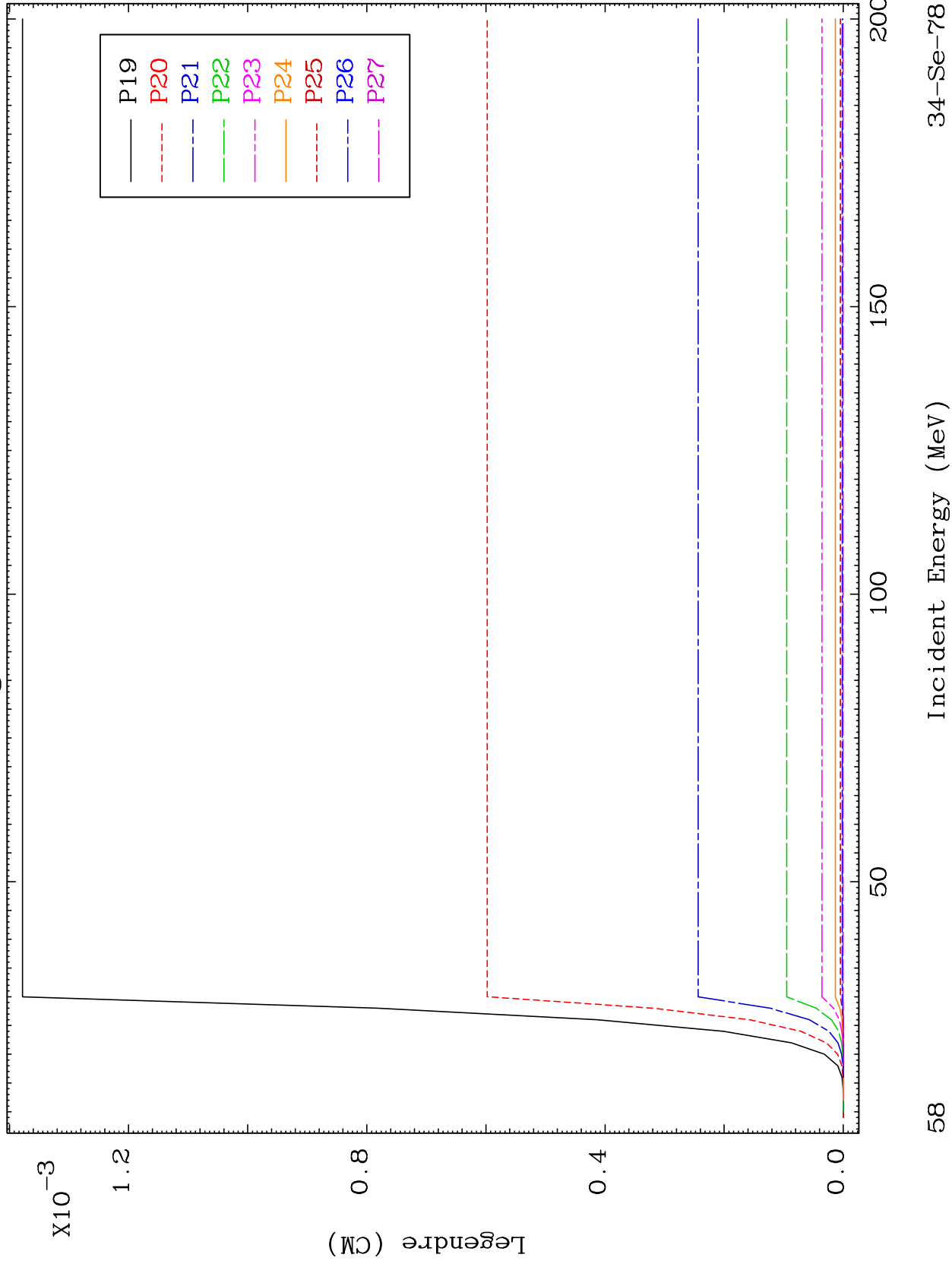
Incident Energy (MeV)

<sup>34</sup>Se-78

MAT 3437

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

34-Se-78



58

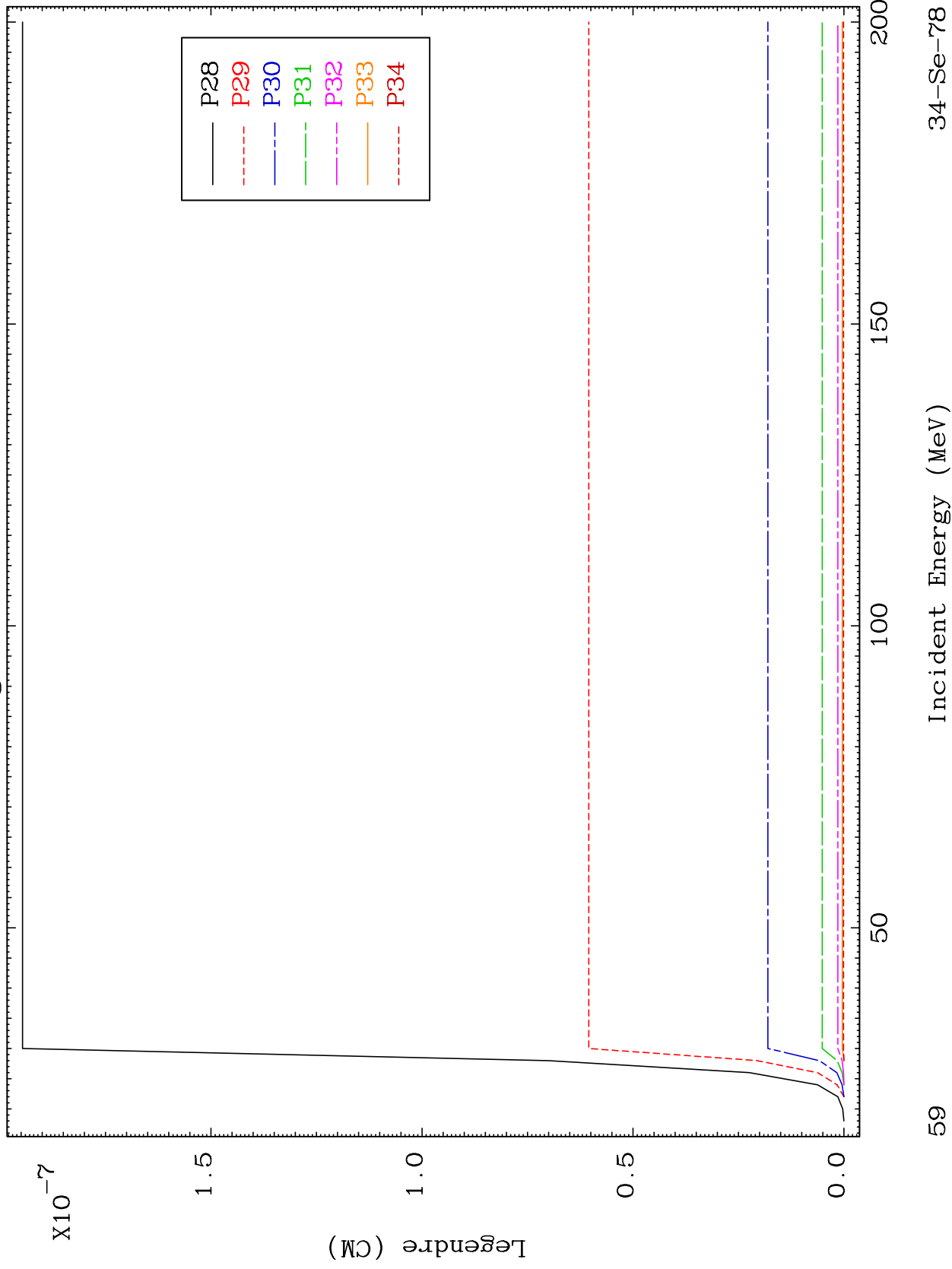
Incident Energy (MeV)

34-Se-78

MAT 3437

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

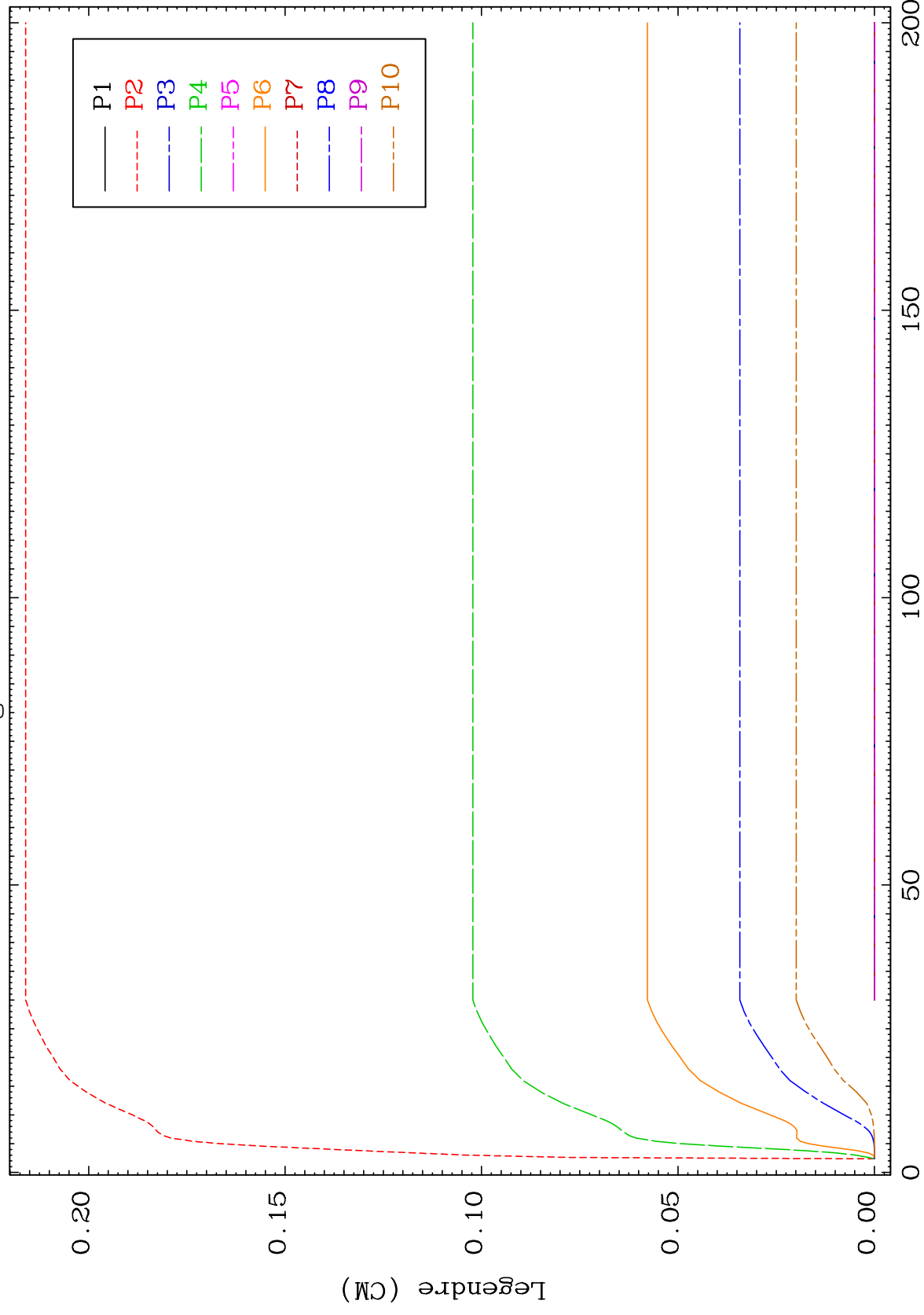
34-Se-78



MAT 3437

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

34-Se-78



34-Se-78

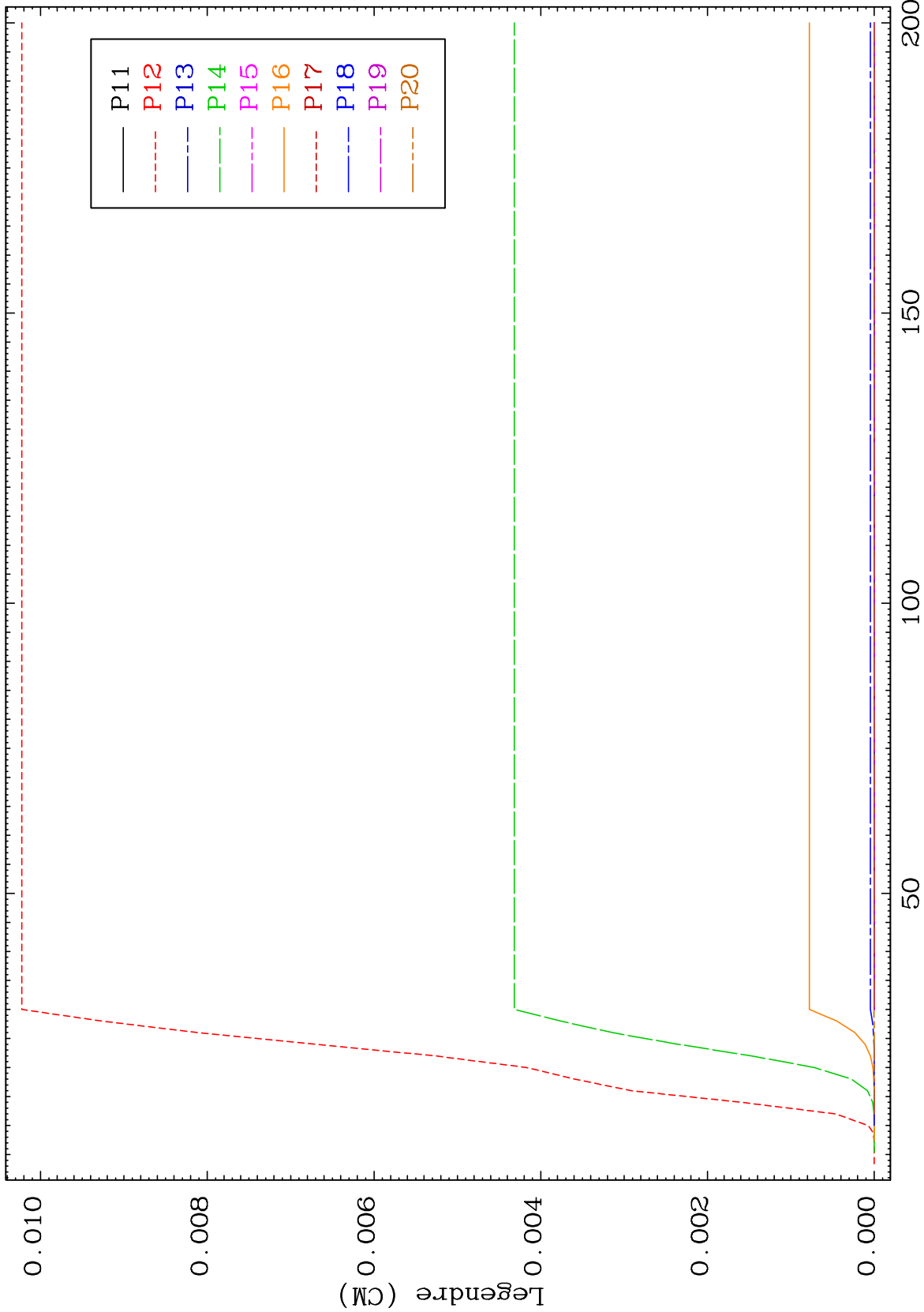
Incident Energy (MeV)

60

MAT 3437

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

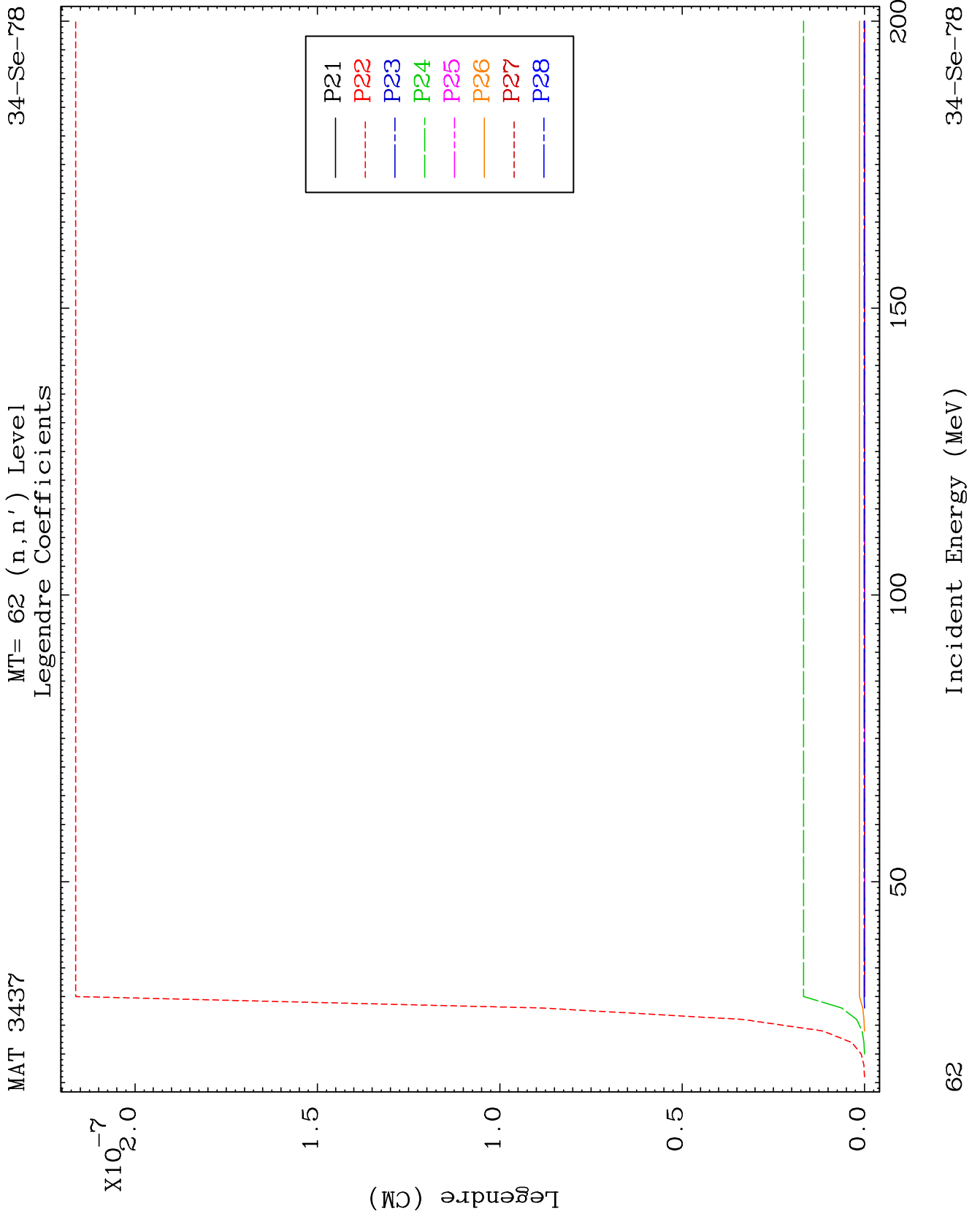
34-Se-78



61

Incident Energy (MeV)

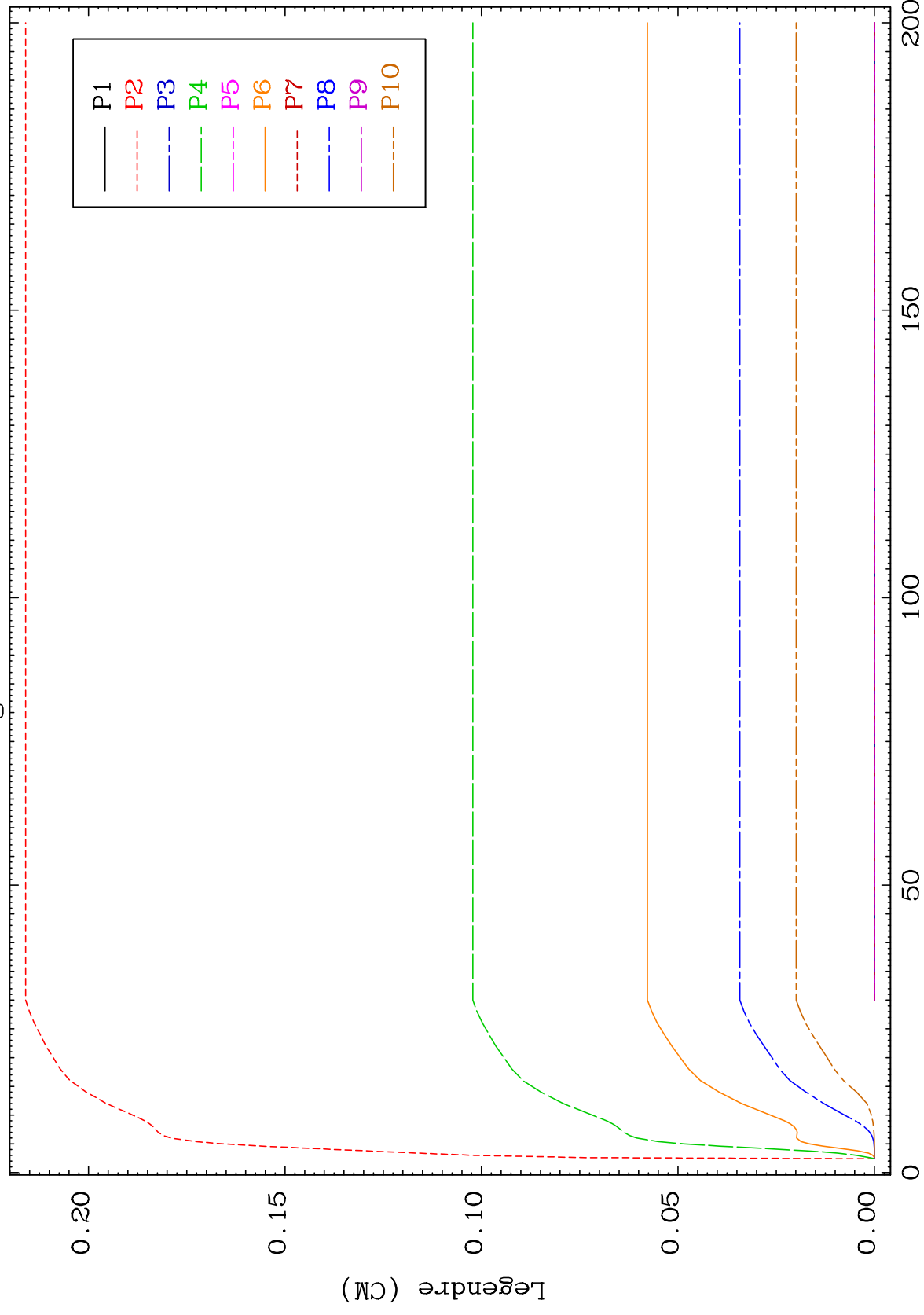
34-Se-78



MAT 3437

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

34-Se-78



63

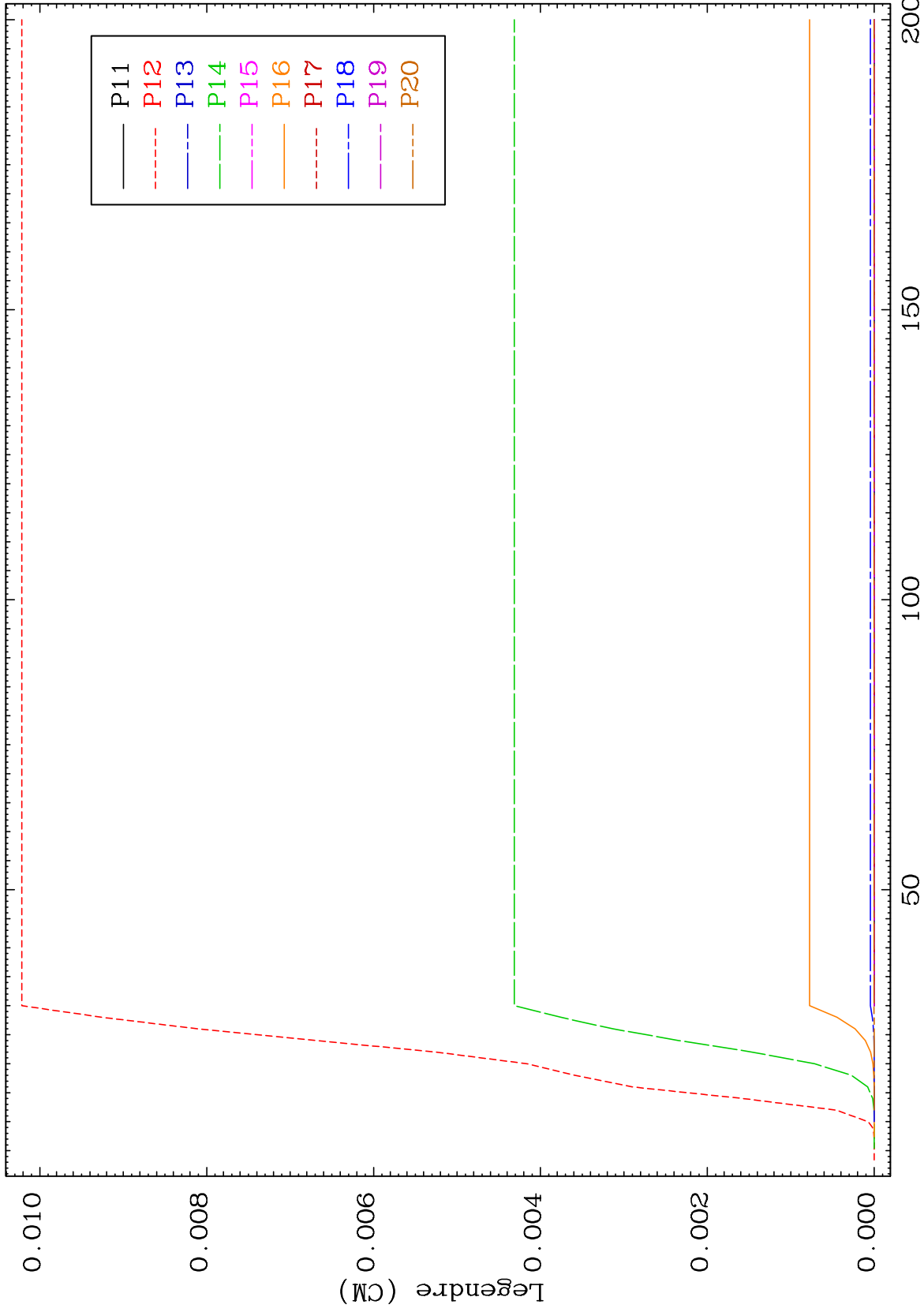
Incident Energy (MeV)

34-Se-78

MAT 3437

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

34-Se-78



64

Incident Energy (MeV)

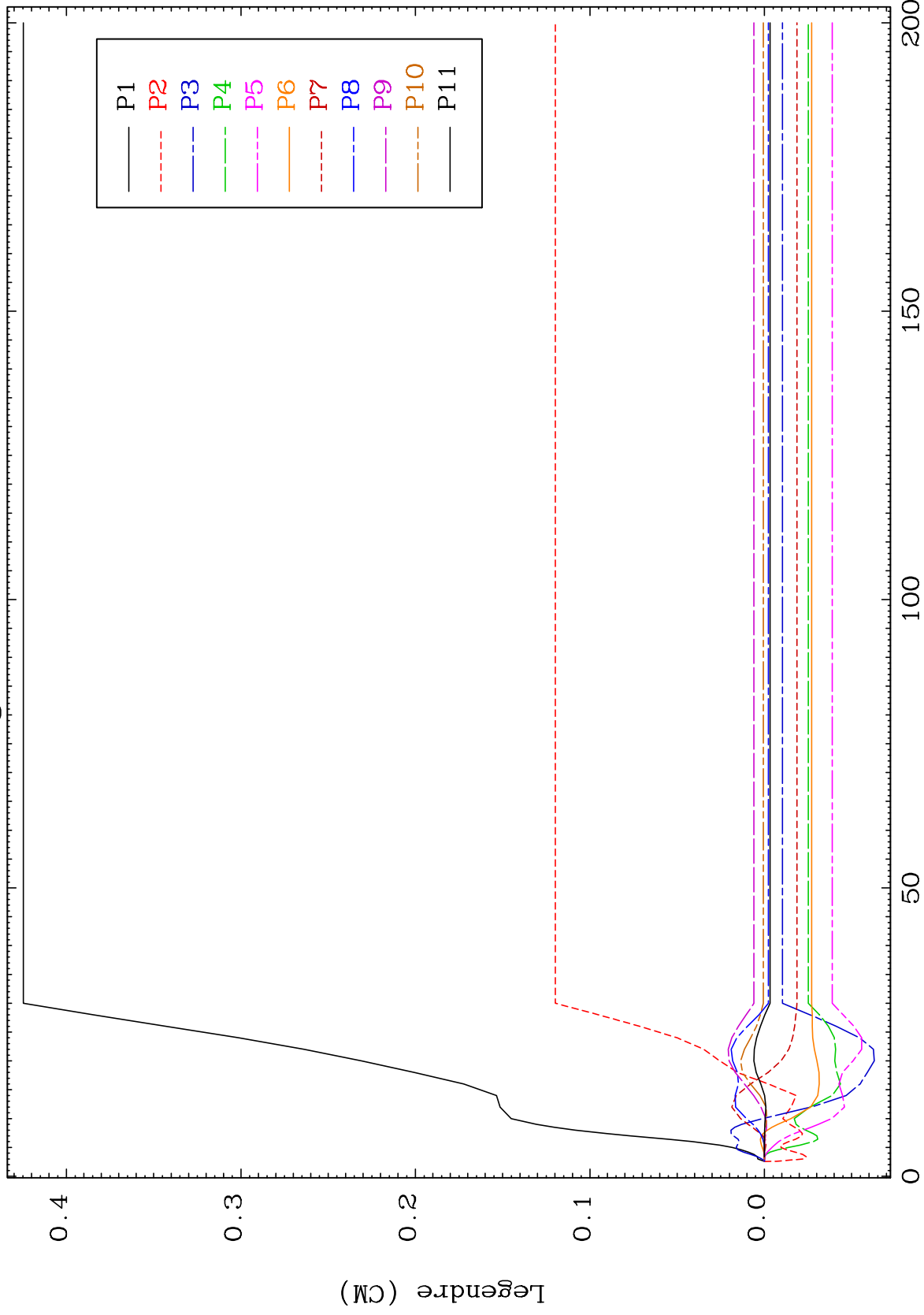
34-Se-78



MAT 3437

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

<sup>34</sup>Se-78



66

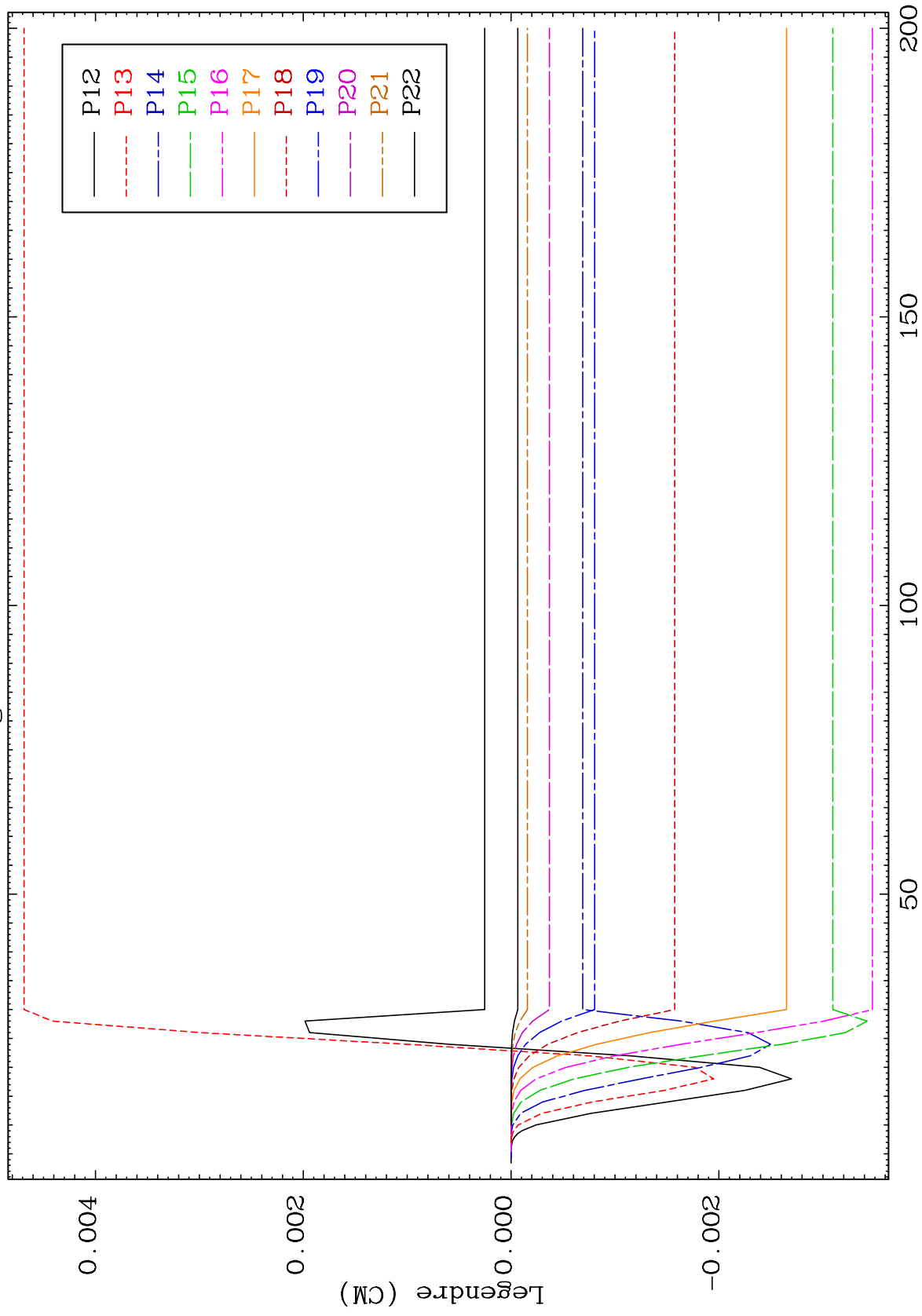
Incident Energy (MeV)

<sup>34</sup>Se-78

MAT 3437

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

34-Se-78



67

Incident Energy (MeV)

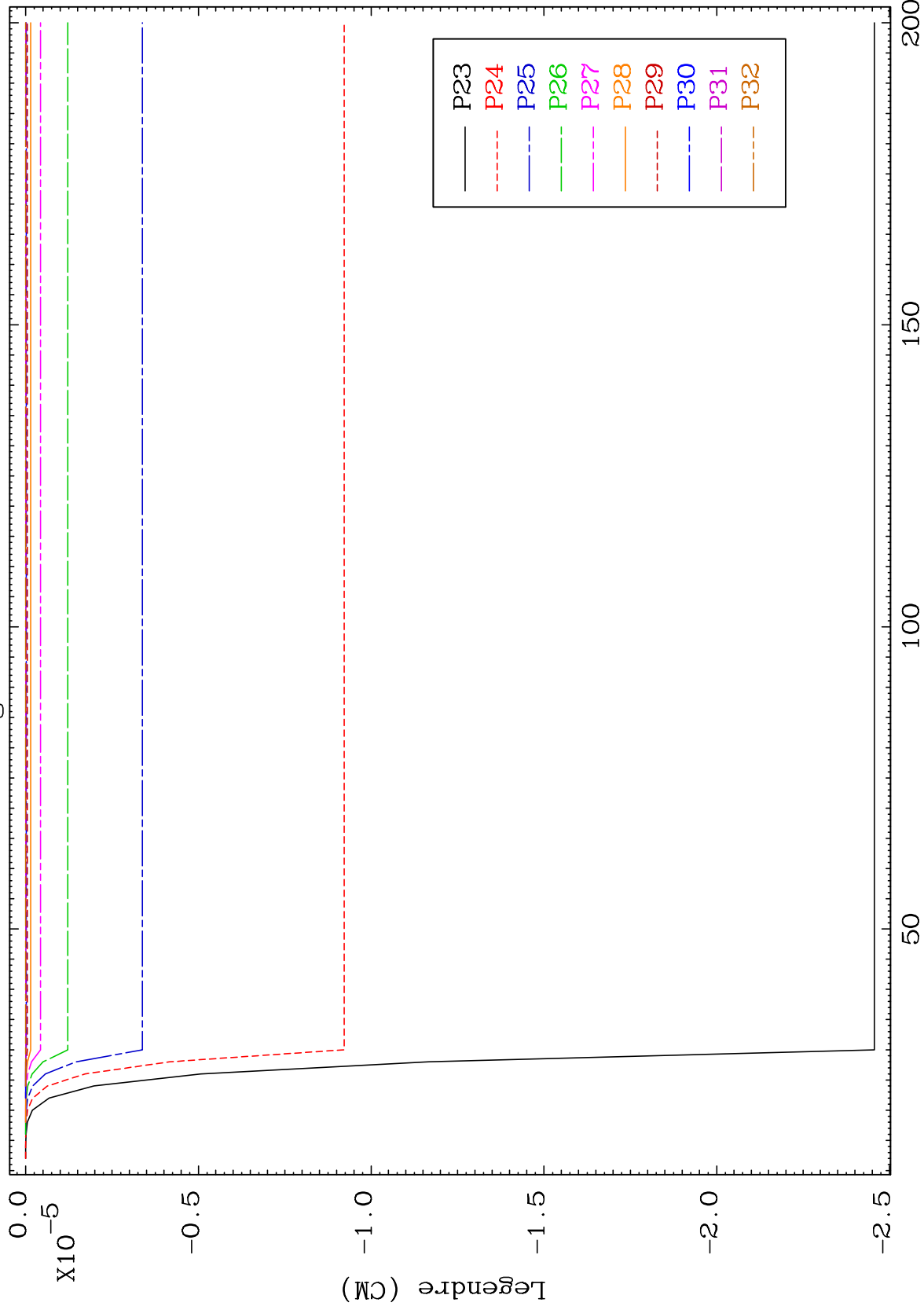
34-Se-78

MAT 3437

MT= 64 (n,n') Level

<sup>34</sup>Se-78

Legendre Coefficients



68

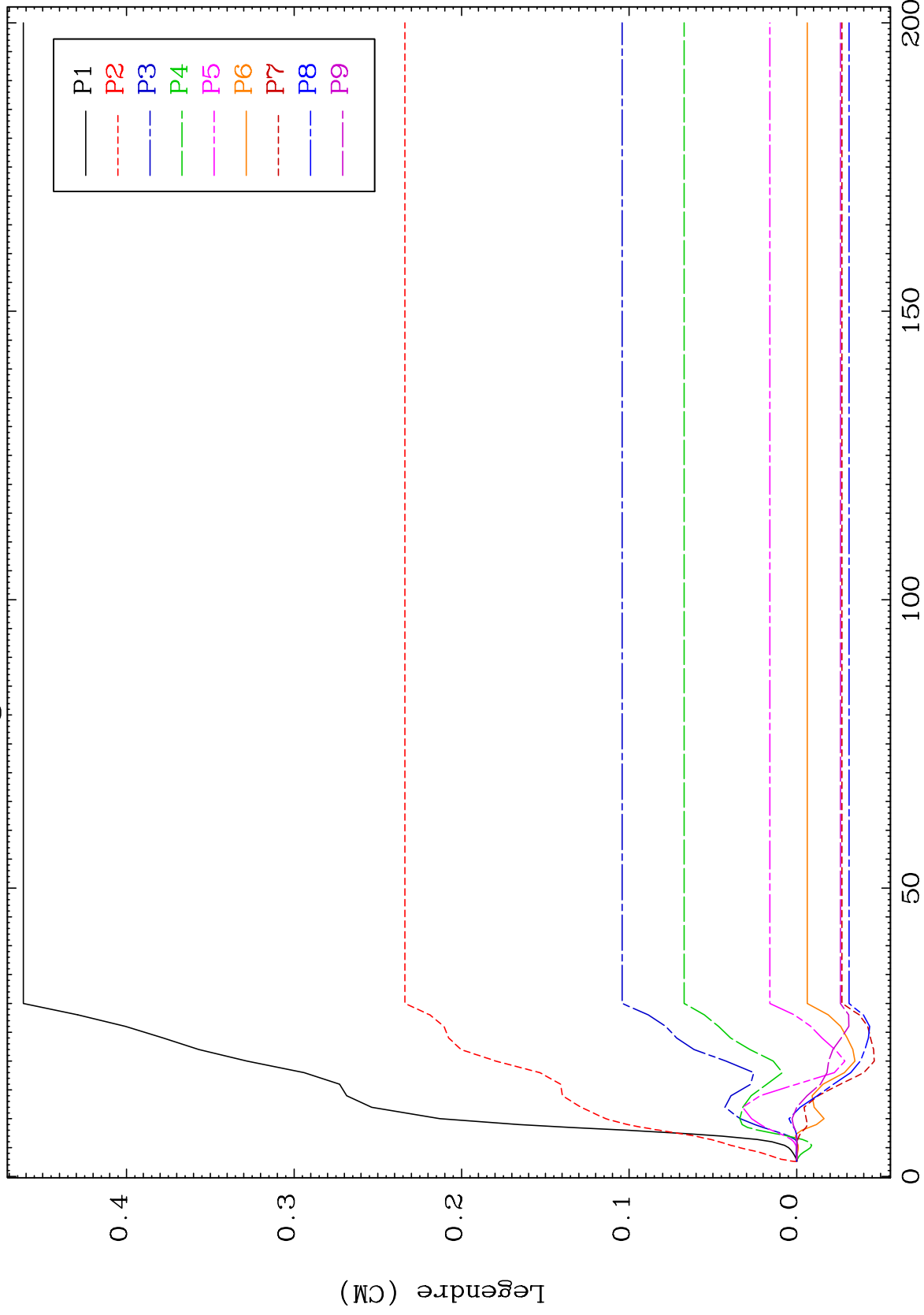
Incident Energy (MeV)

<sup>34</sup>Se-78

MAT 3437

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

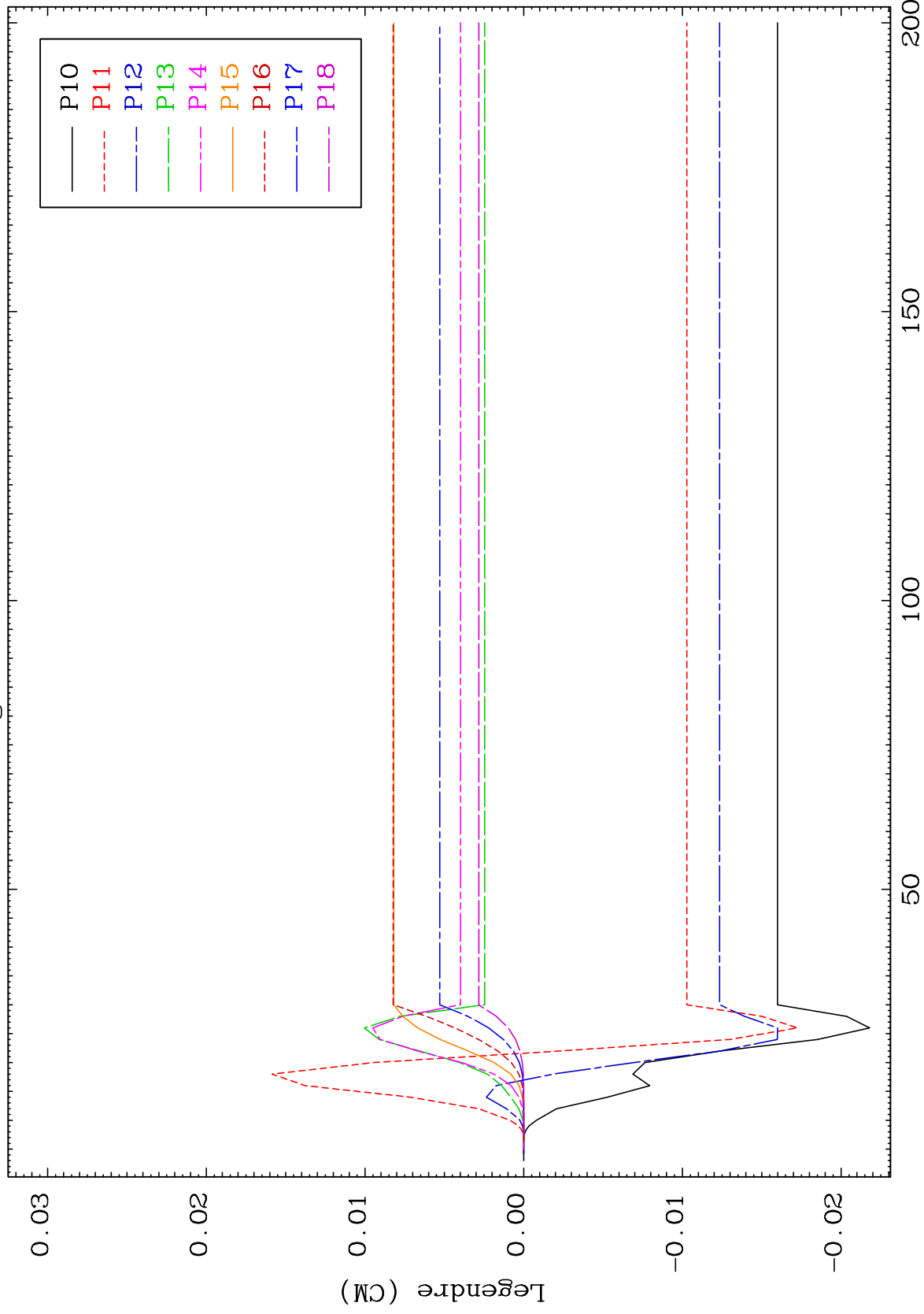
<sup>34</sup>Se-78



MAT 3437

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

34-Se-78



70

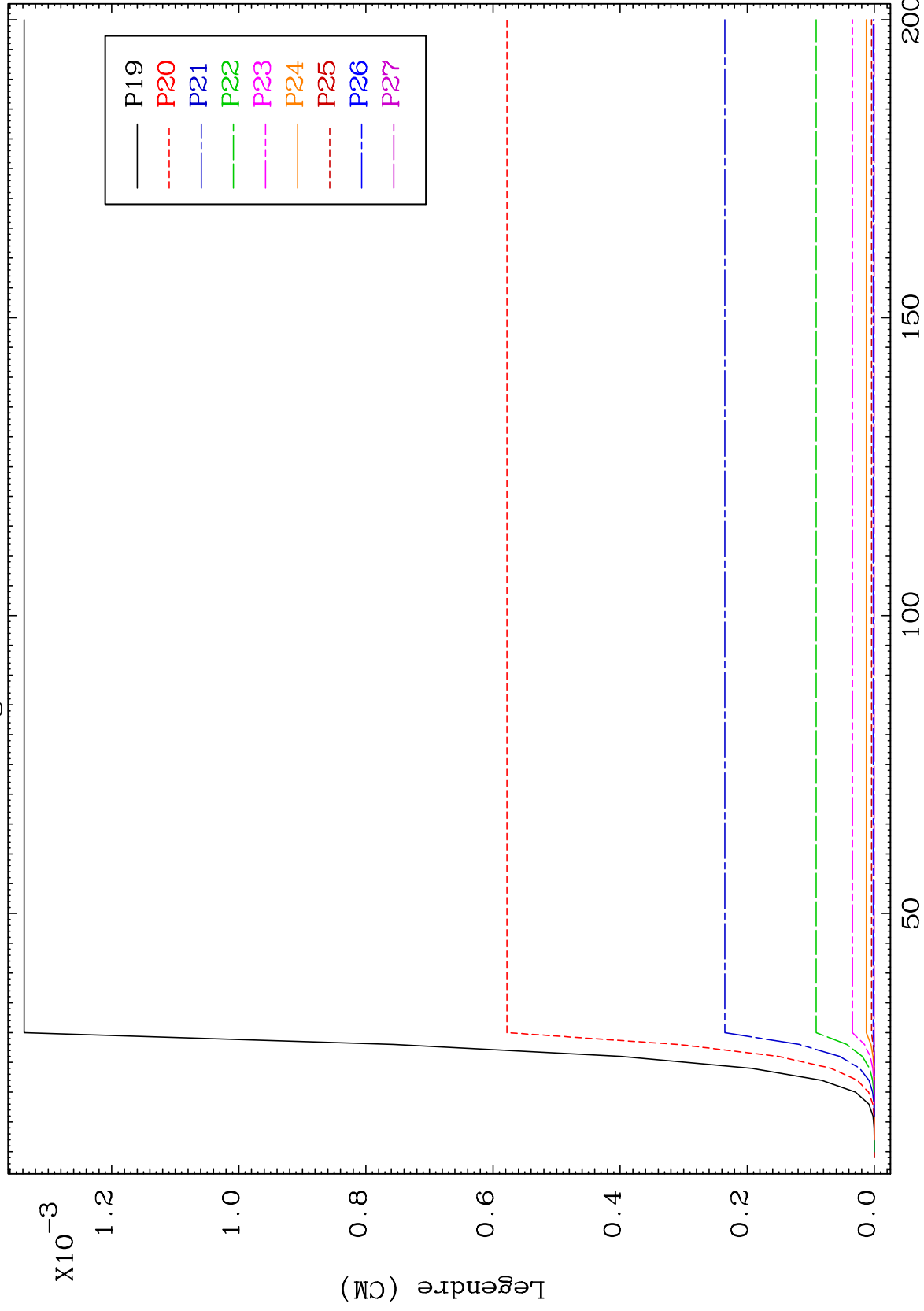
Incident Energy (MeV)

34-Se-78

MAT 3437

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

34-Se-78



71

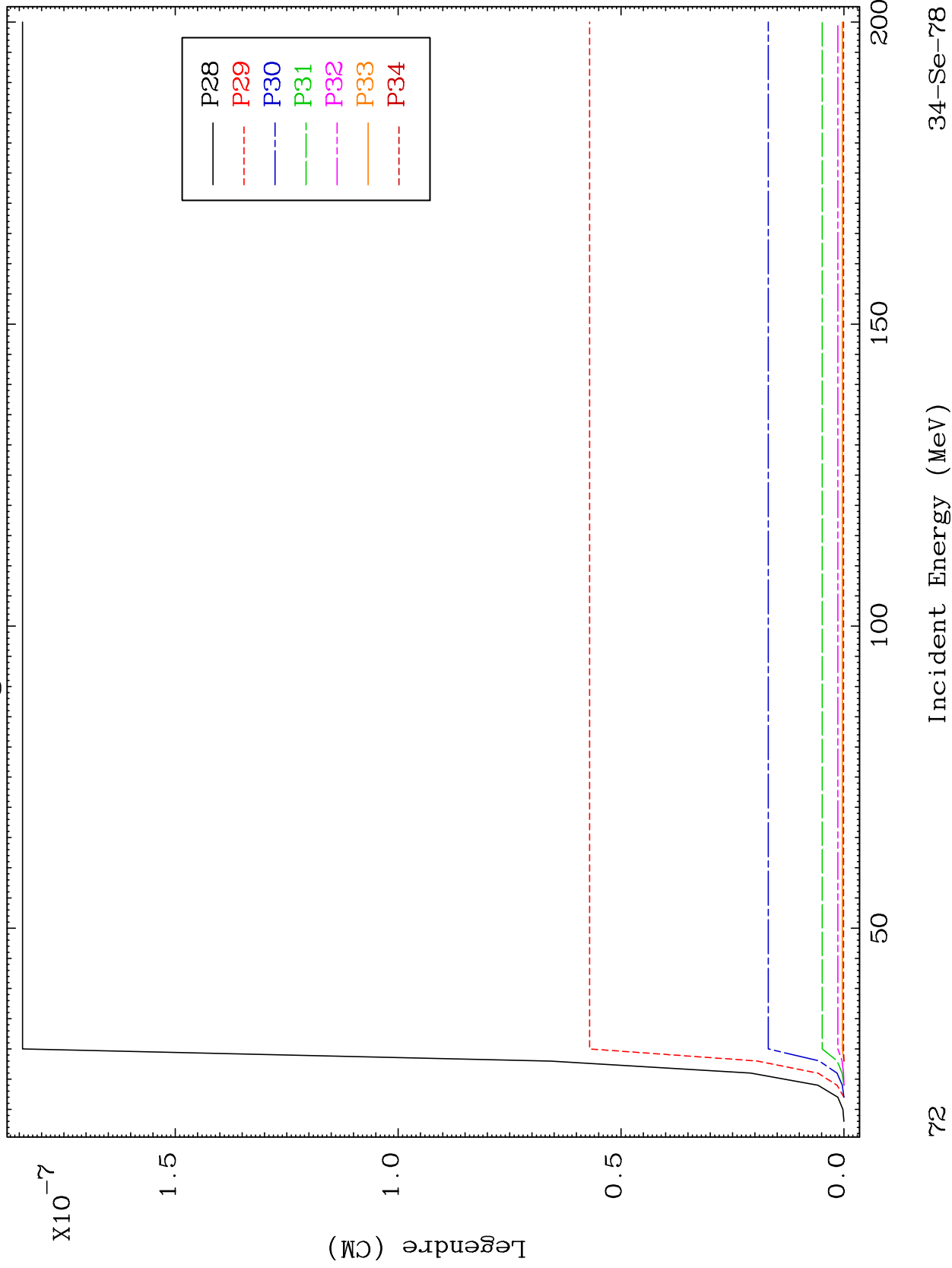
Incident Energy (MeV)

34-Se-78

MAT 3437

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

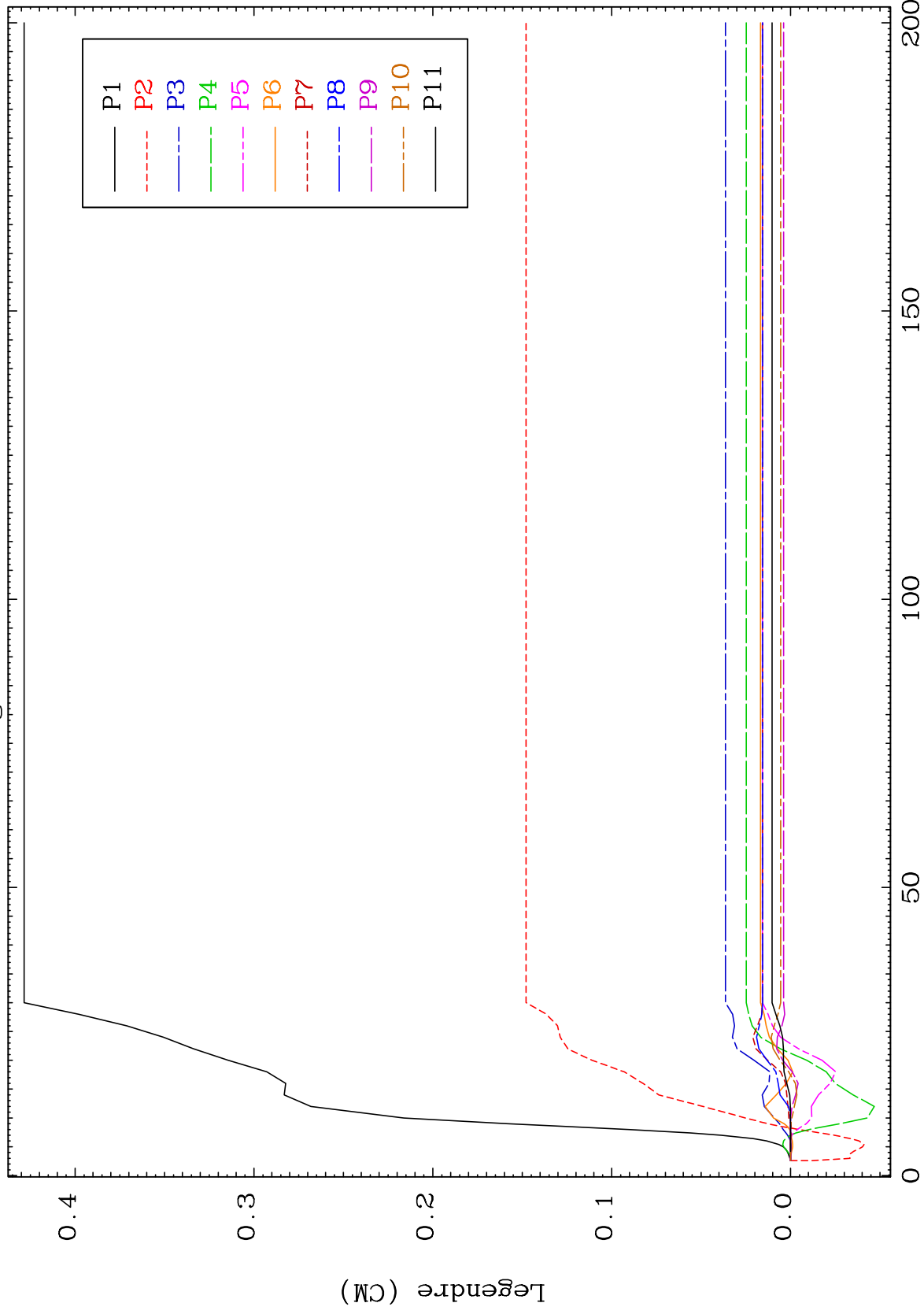
34-Se-78



MAT 3437

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

<sup>34</sup>Se-78



73

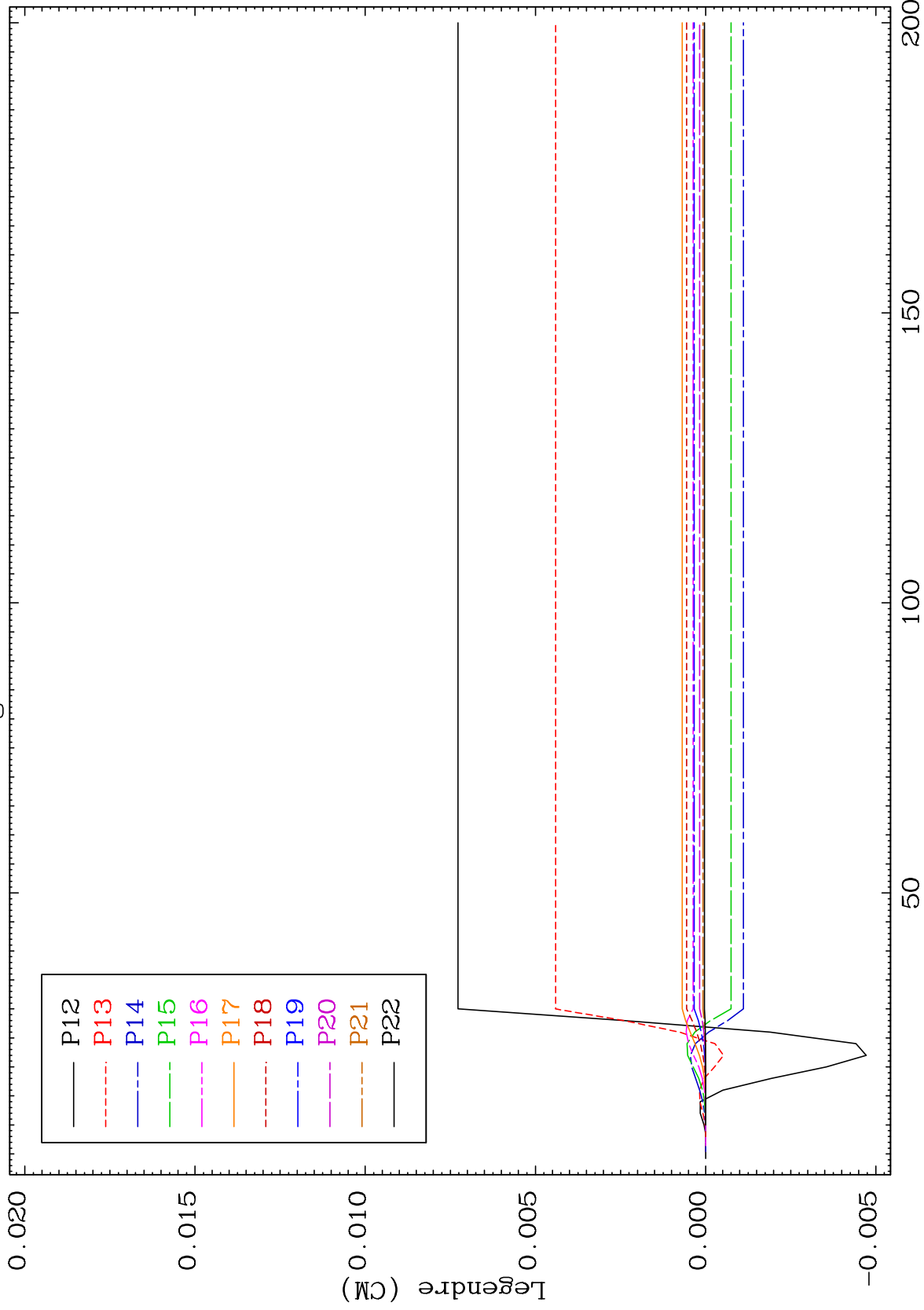
Incident Energy (MeV)

<sup>34</sup>Se-78

MAT 3437

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

34-Se-78



74

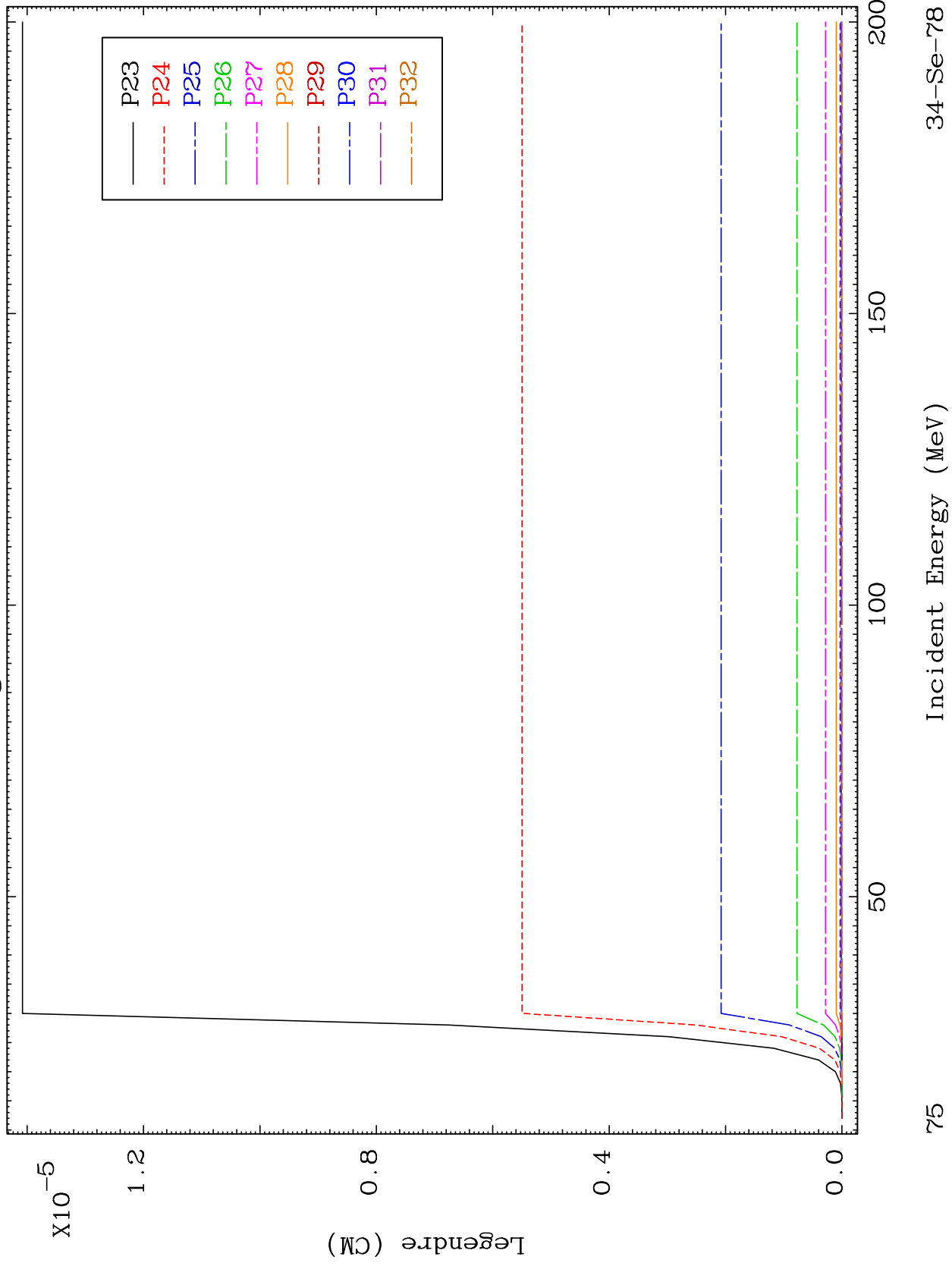
Incident Energy (MeV)

34-Se-78

MAT 3437

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

<sup>34</sup>Se-78



75

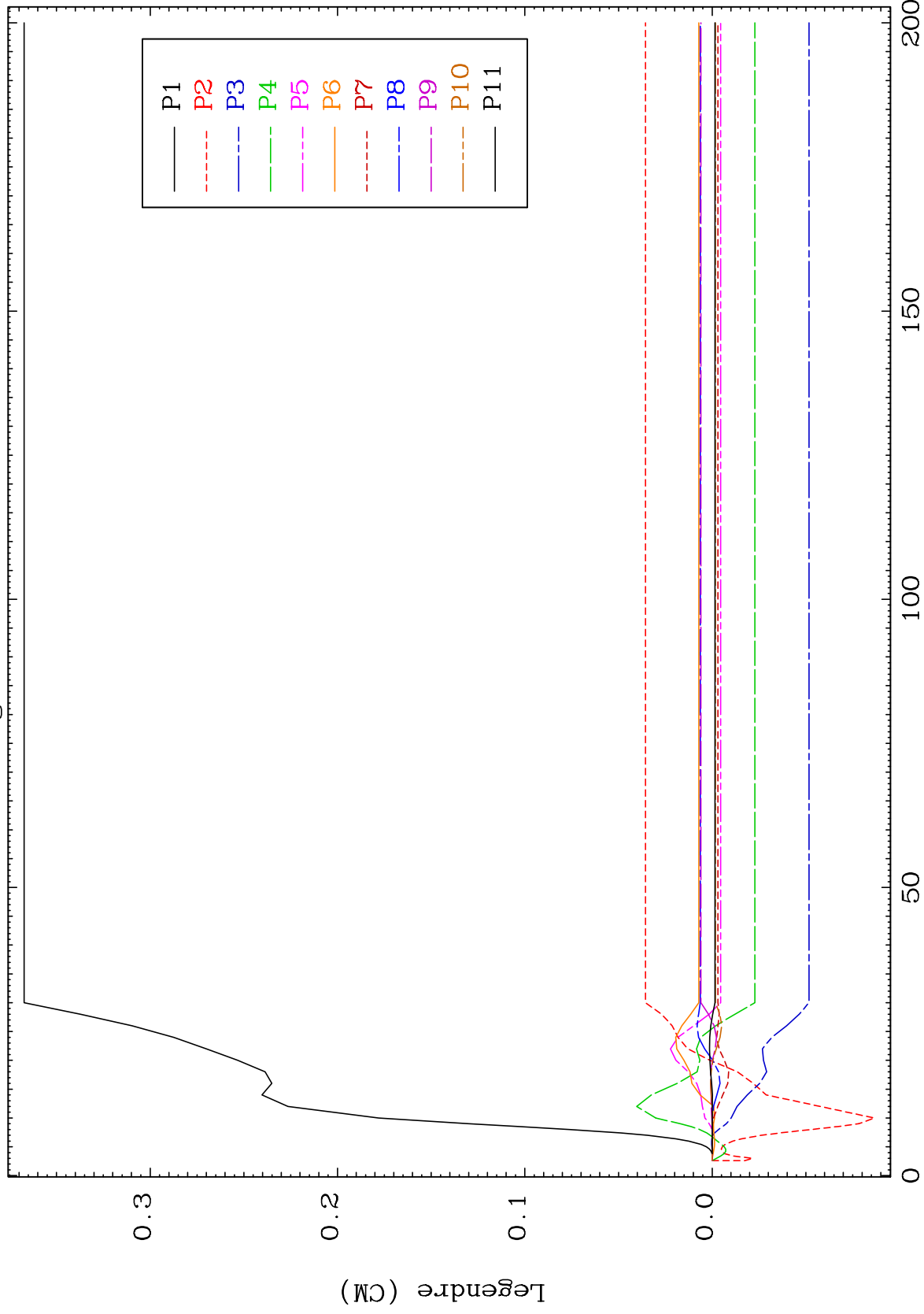
Incident Energy (MeV)

<sup>34</sup>Se-78

MAT 3437

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

<sup>34</sup>Se-78



76

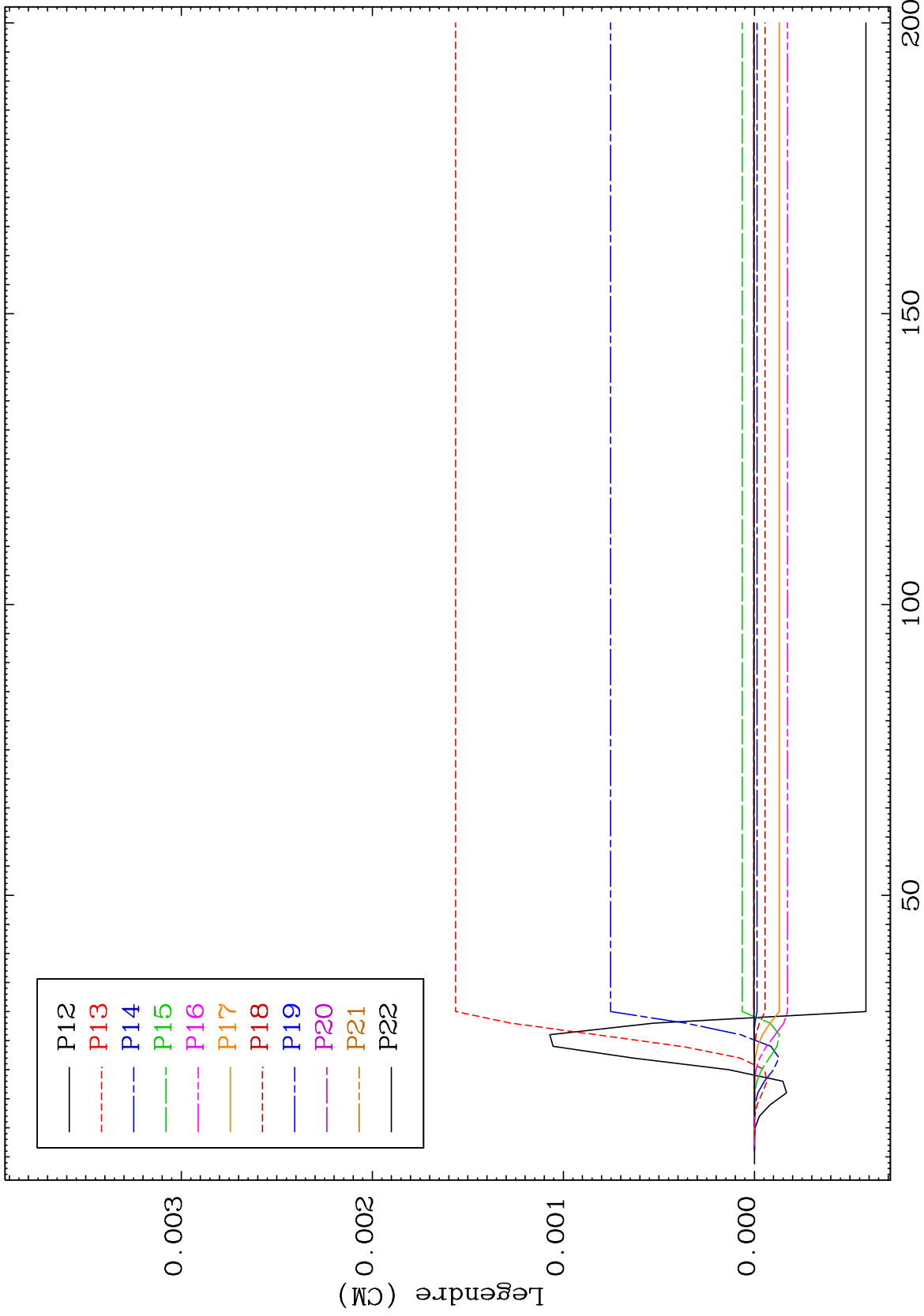
Incident Energy (MeV)

<sup>34</sup>Se-78

MAT 3437

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

<sup>34</sup>Se-78



77

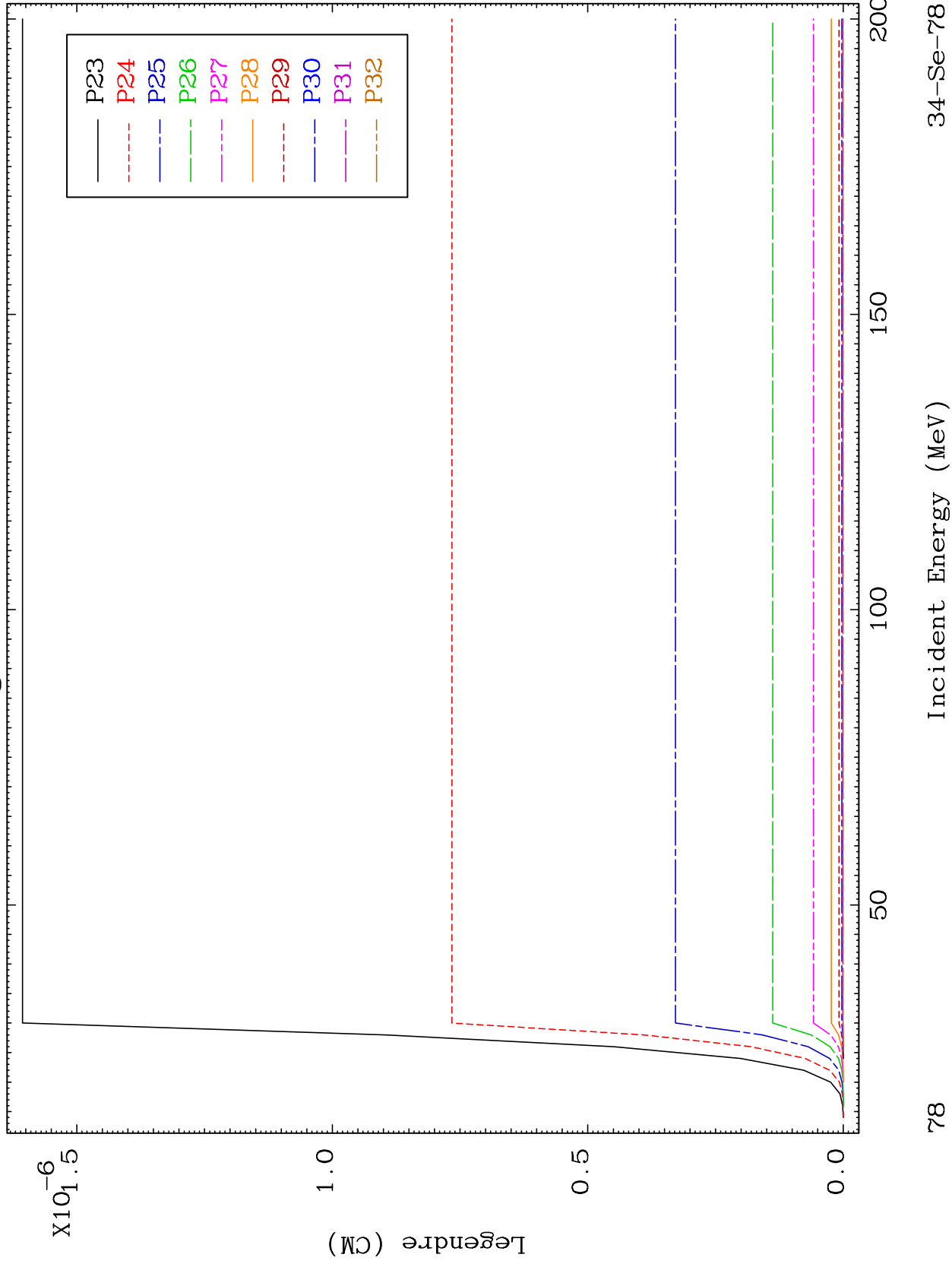
Incident Energy (MeV)

<sup>34</sup>Se-78

MAT 3437

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

34-Se-78



78

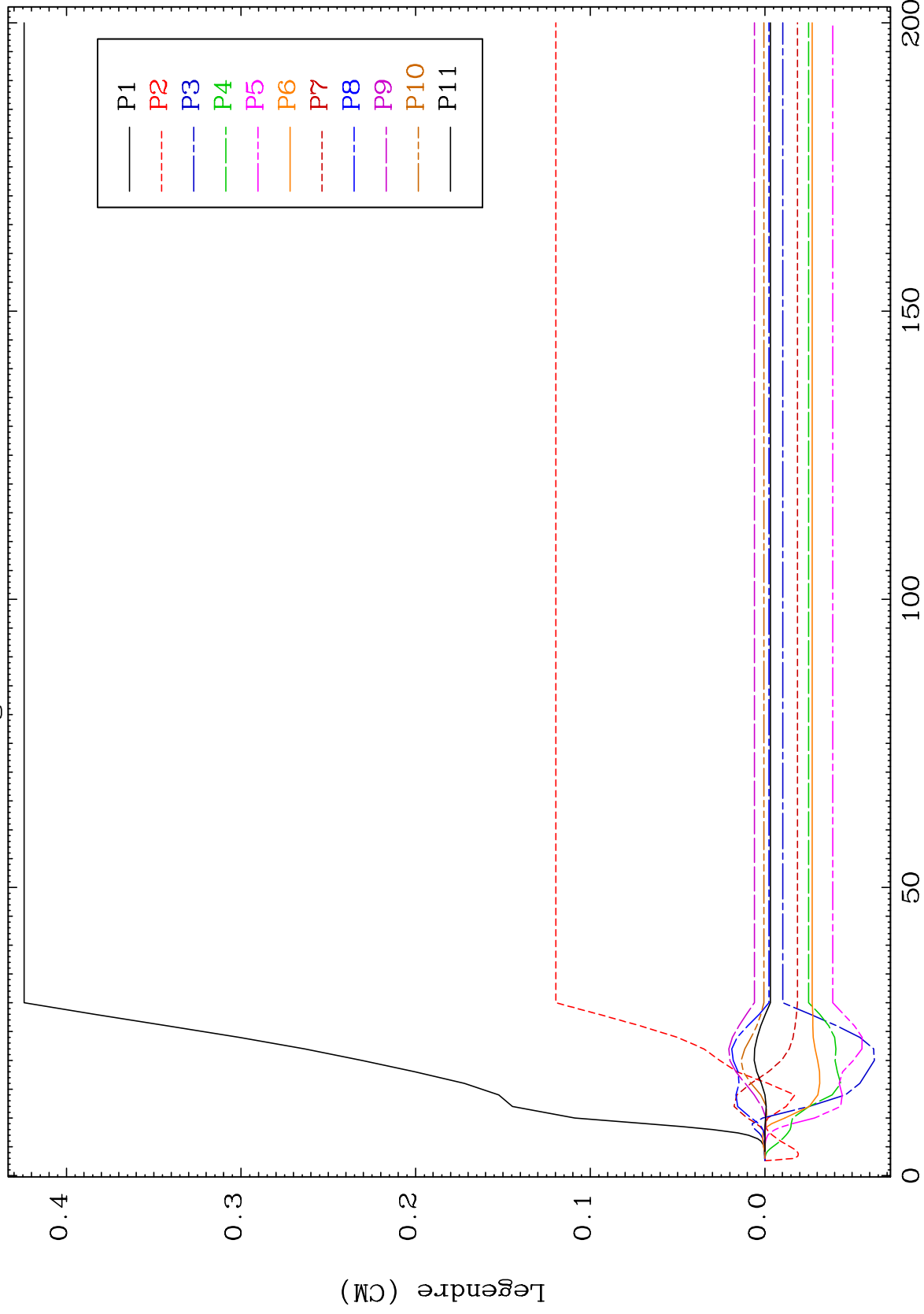
Incident Energy (MeV)

34-Se-78

MAT 3437

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

<sup>34</sup>Se-78



79

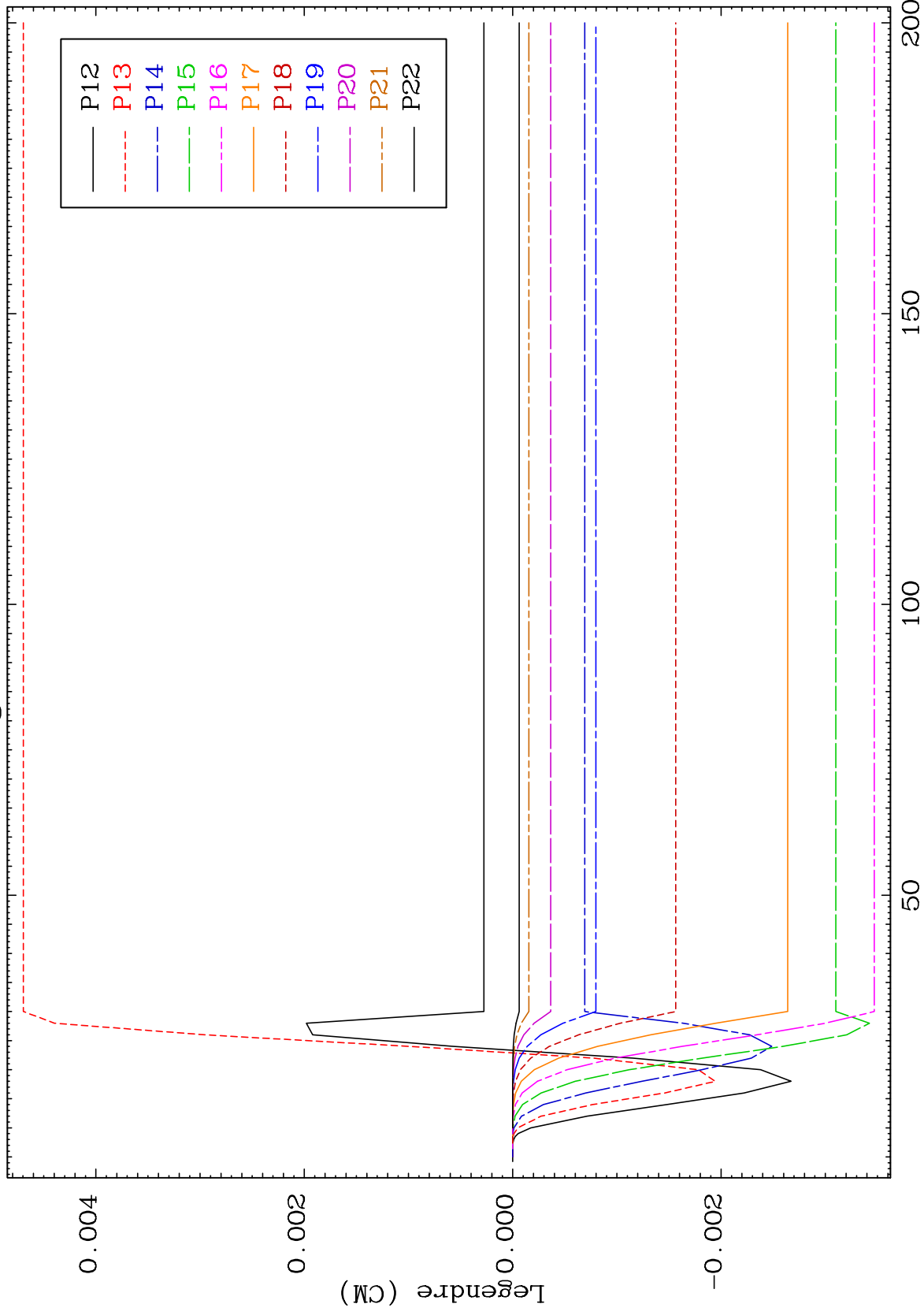
Incident Energy (MeV)

<sup>34</sup>Se-78

MAT 3437

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

34-Se-78



80

Incident Energy (MeV)

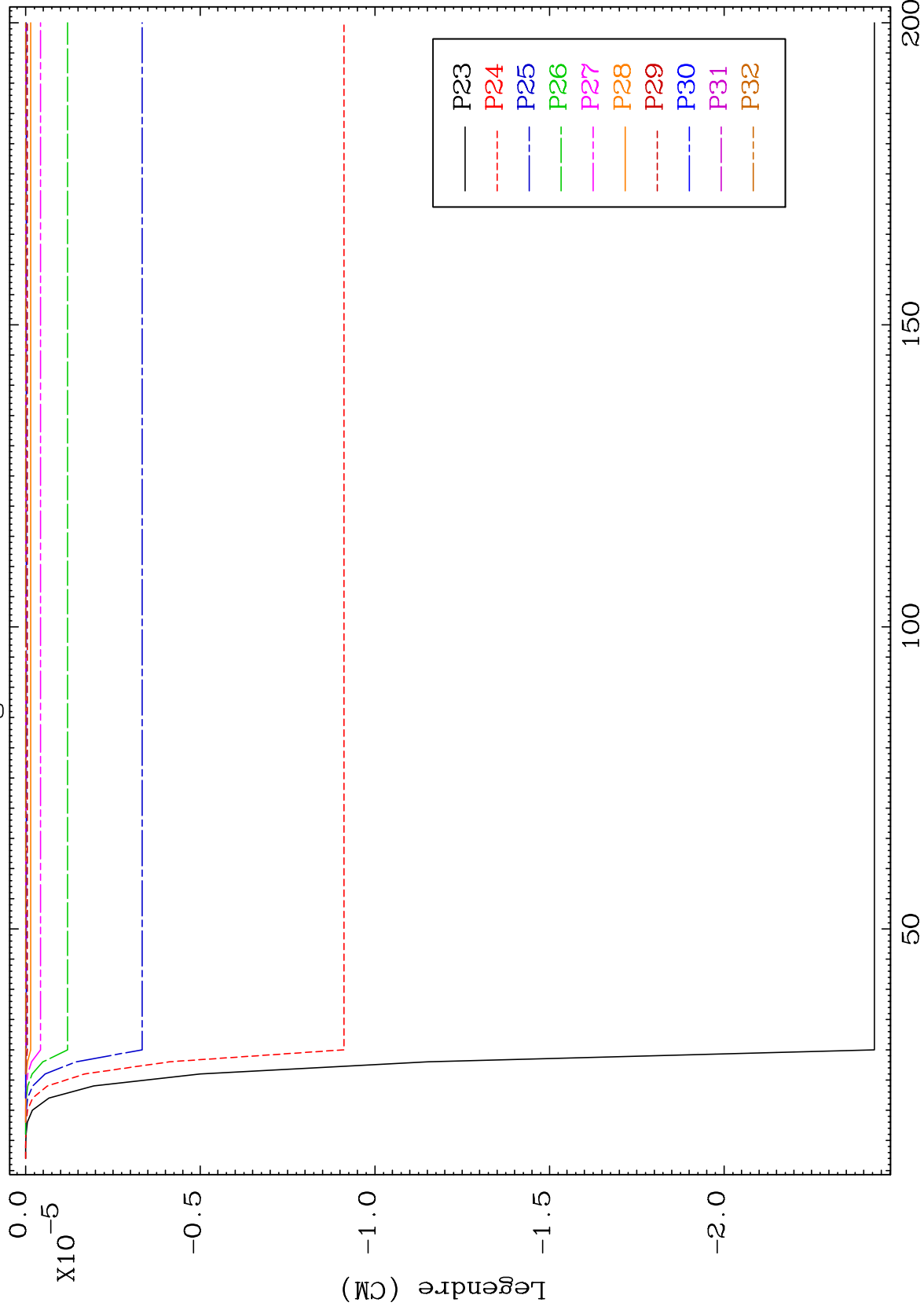
34-Se-78

MAT 3437

MT= 68 (n,n') Level

34-Se-78

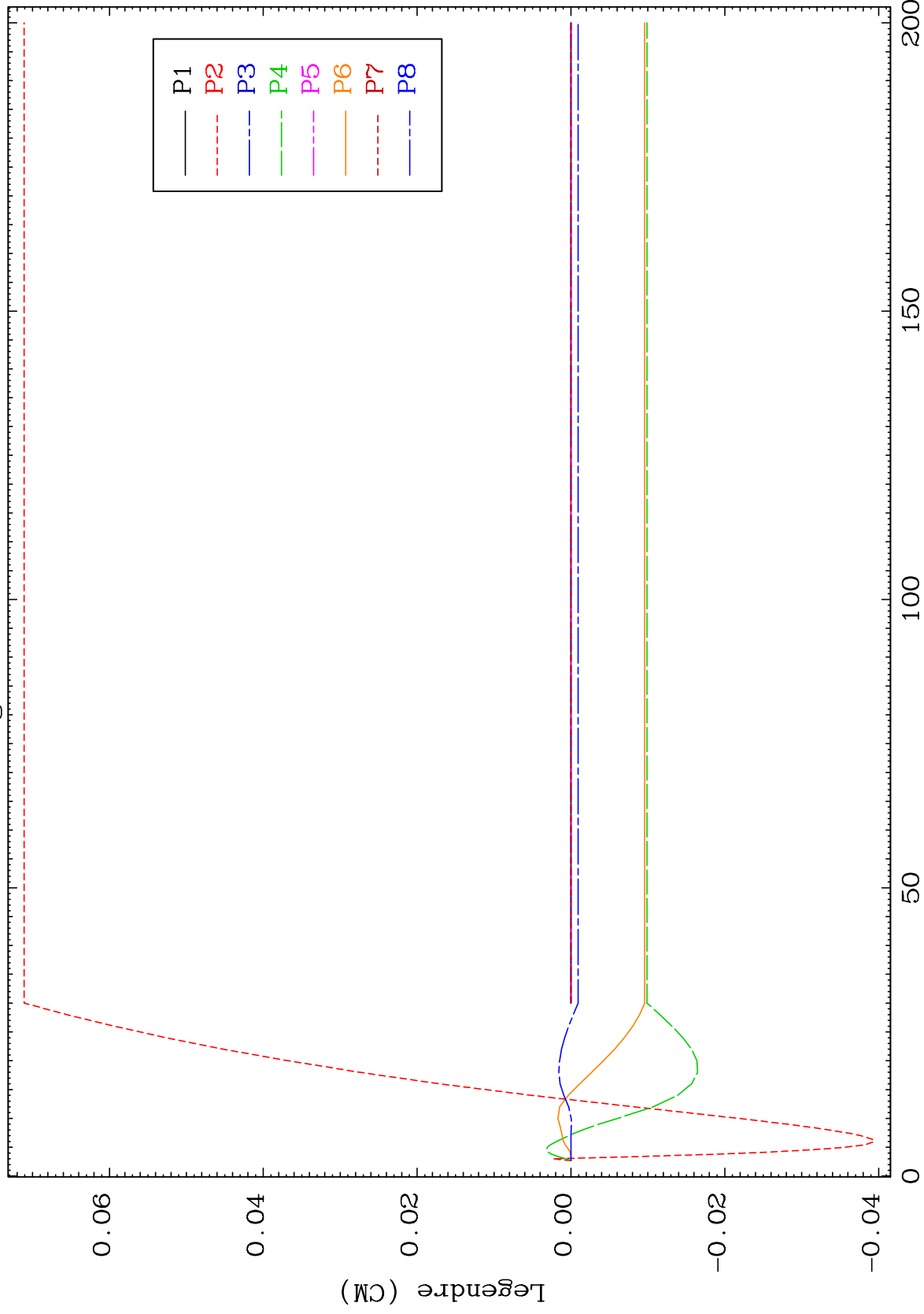
Legendre Coefficients



MAT 3437

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

<sup>34</sup>Se-78



82

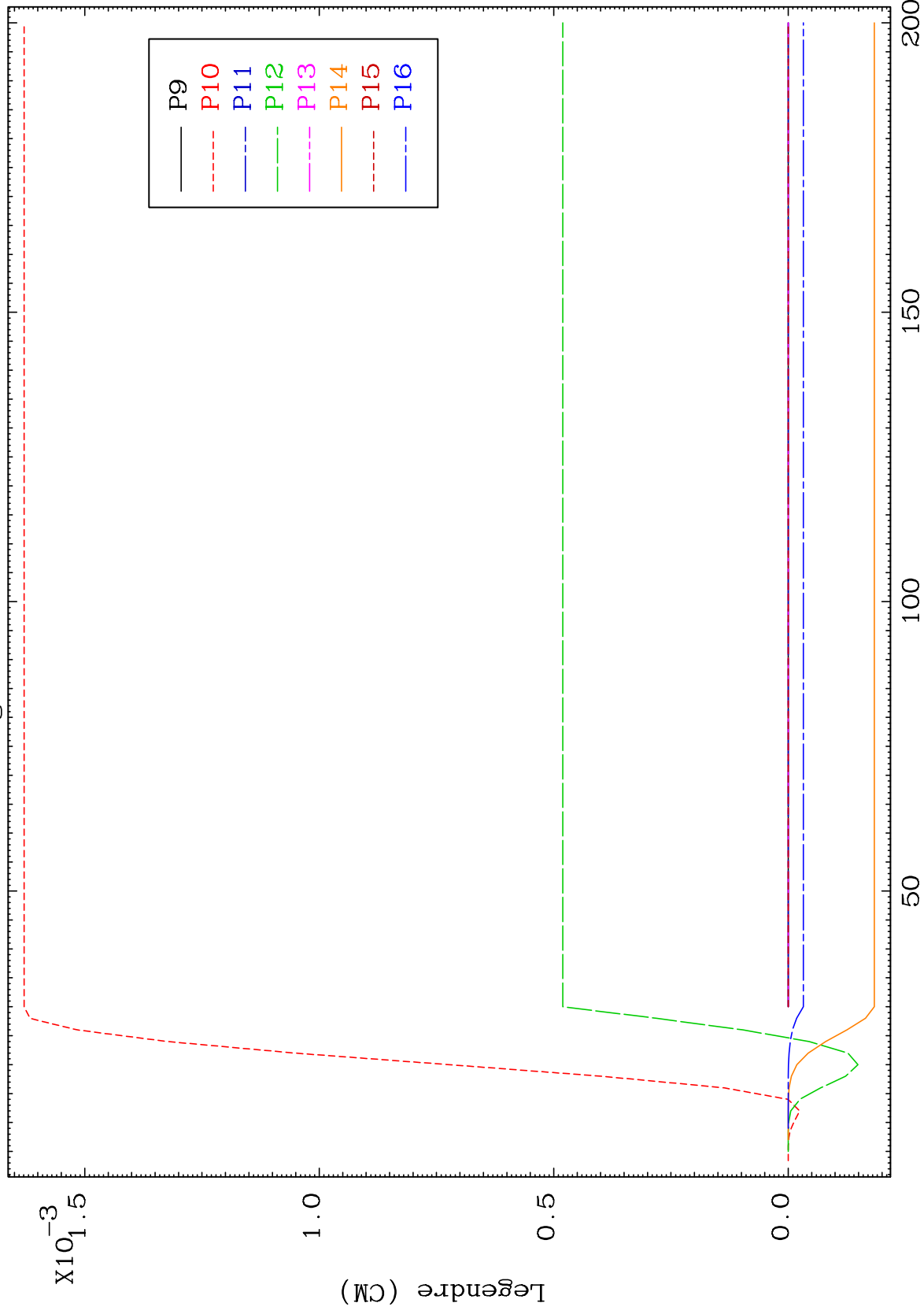
Incident Energy (MeV)

<sup>34</sup>Se-78

MAT 3437

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

34-Se-78



83

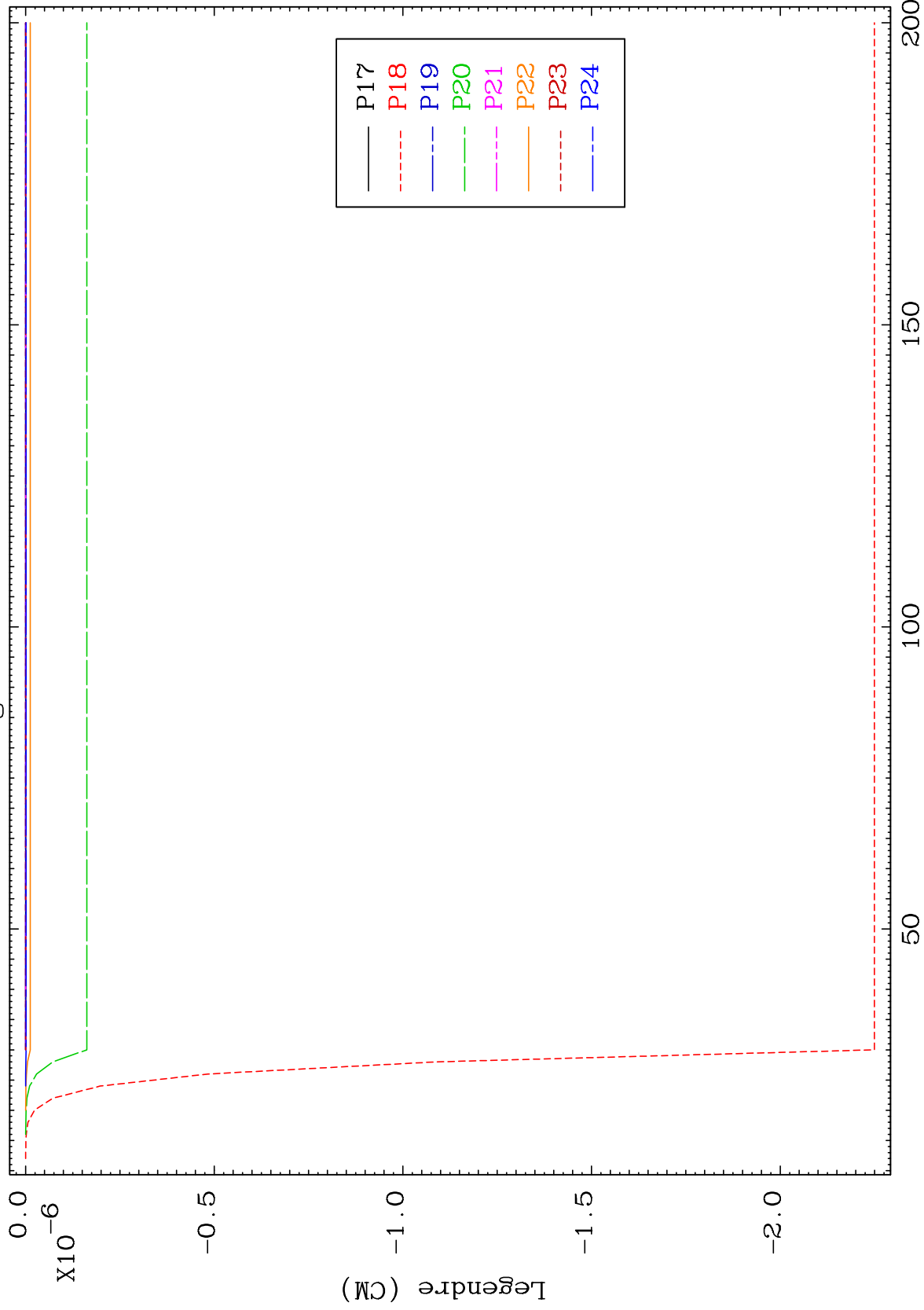
Incident Energy (MeV)

34-Se-78

MAT 3437

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

<sup>34</sup>Se-78



84

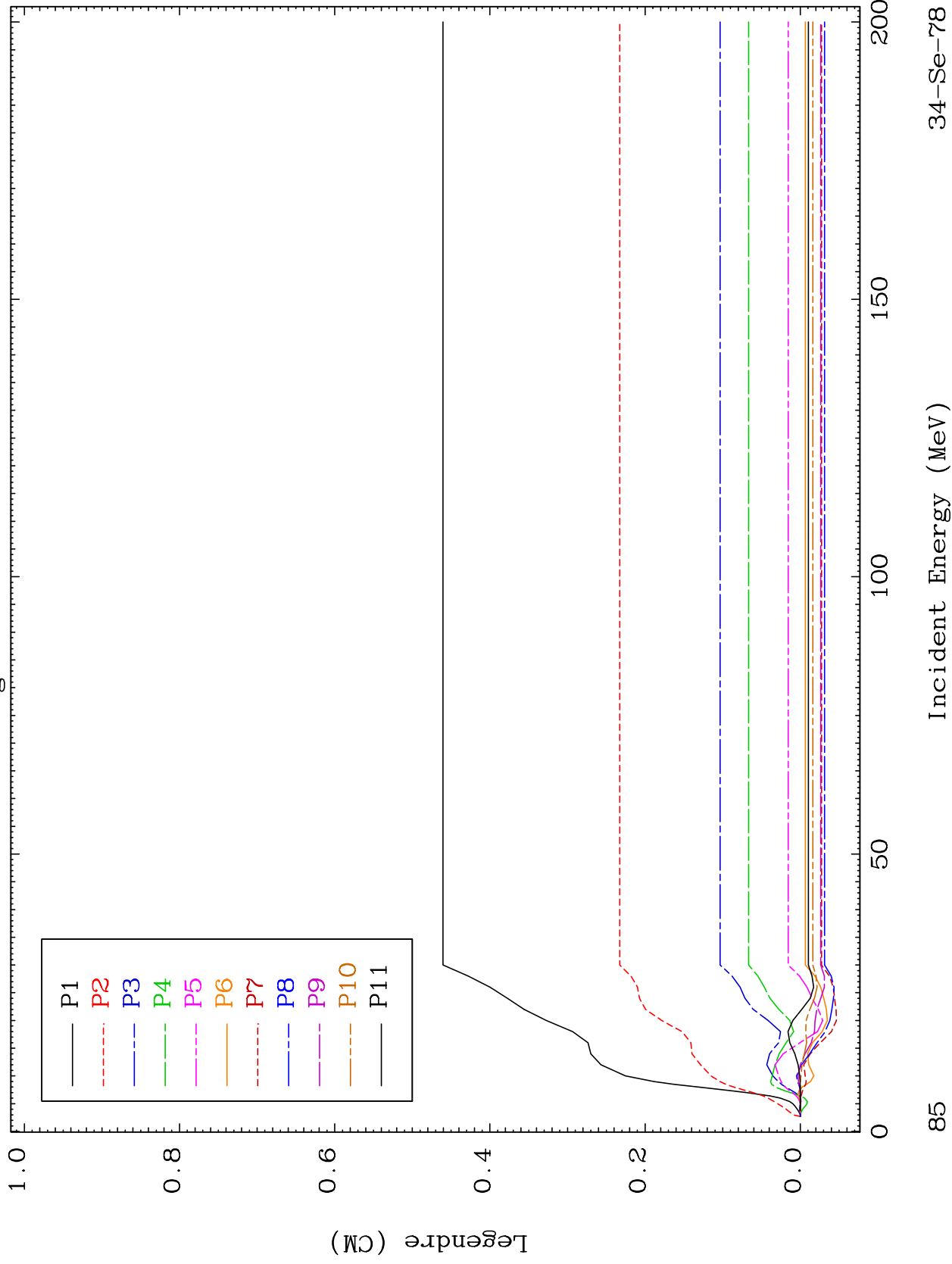
Incident Energy (MeV)

<sup>34</sup>Se-78

MAT 3437

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

<sup>34</sup>Se-78



85

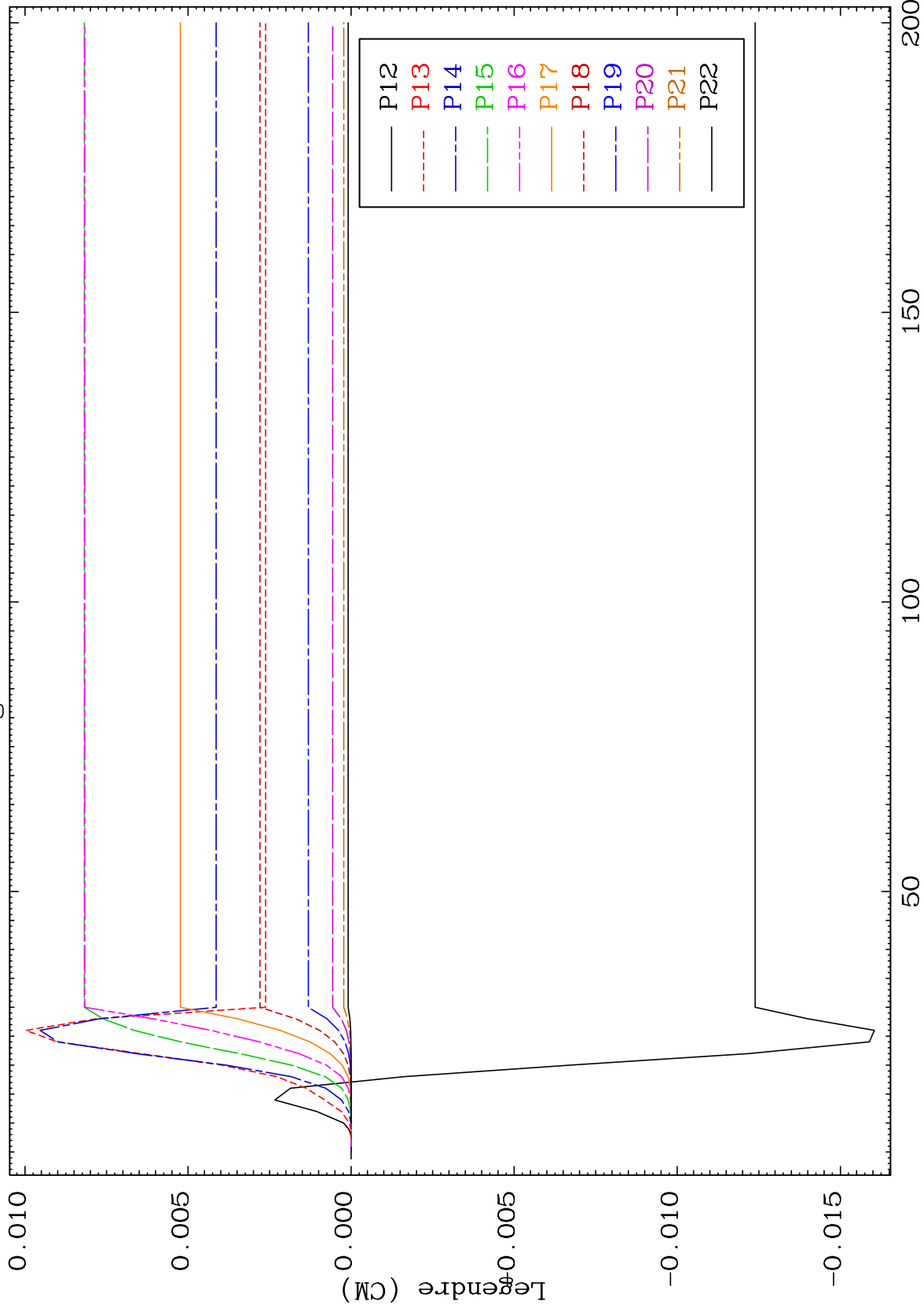
Incident Energy (MeV)

<sup>34</sup>Se-78

MAT 3437

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

34-Se-78



86

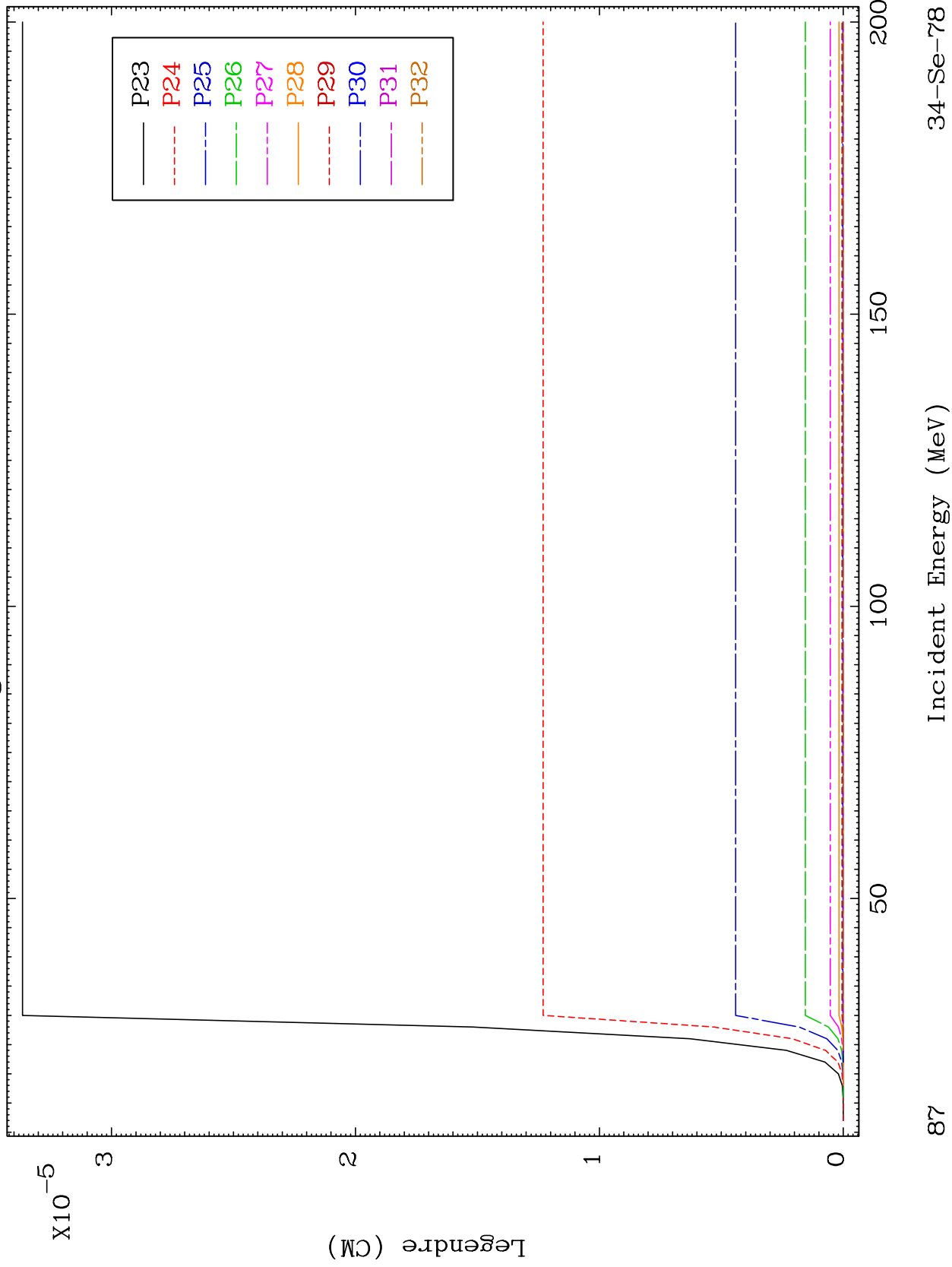
Incident Energy (MeV)

34-Se-78

MAT 3437

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

<sup>34</sup>Se-78



87

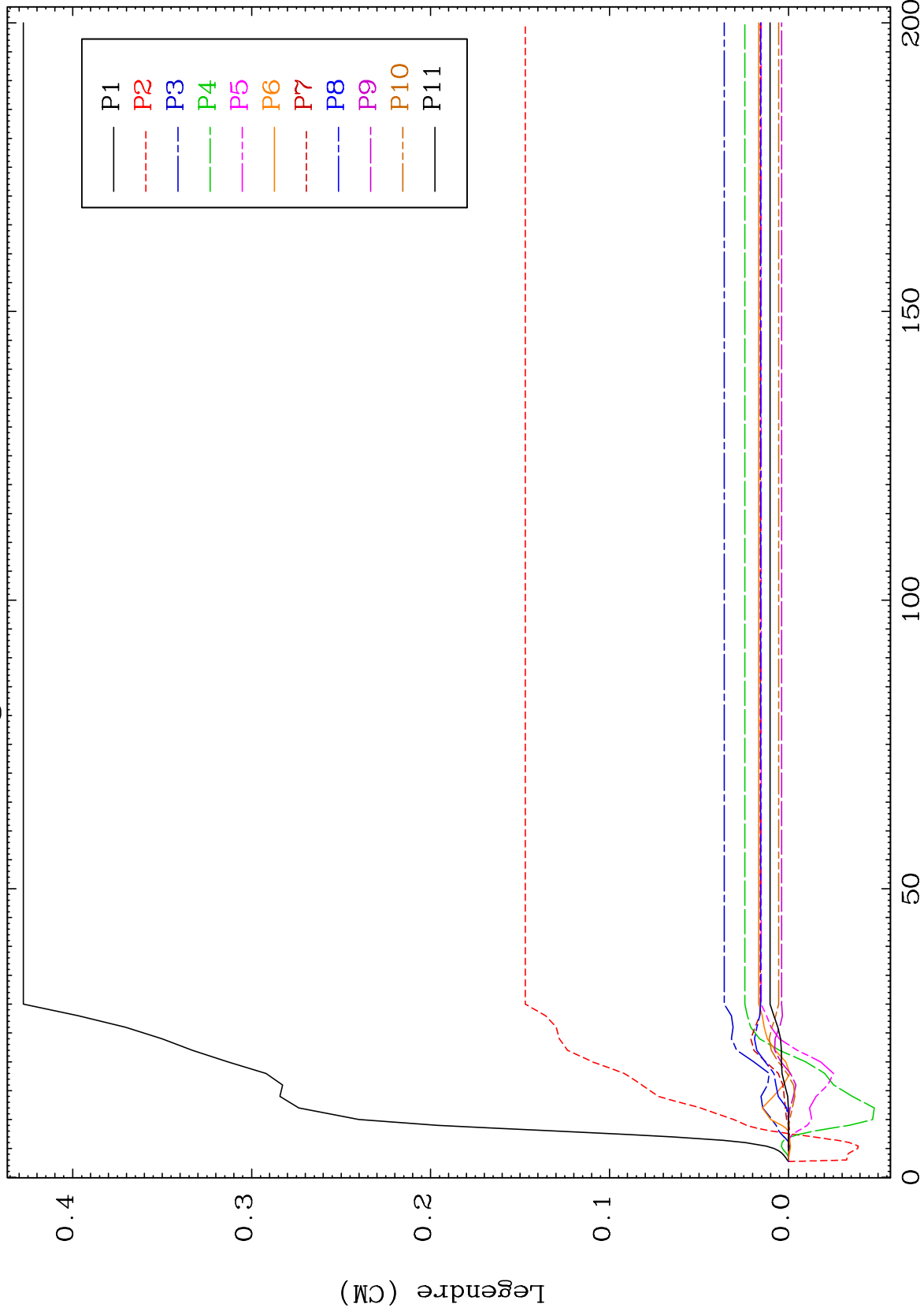
Incident Energy (MeV)

<sup>34</sup>Se-78

MAT 3437

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

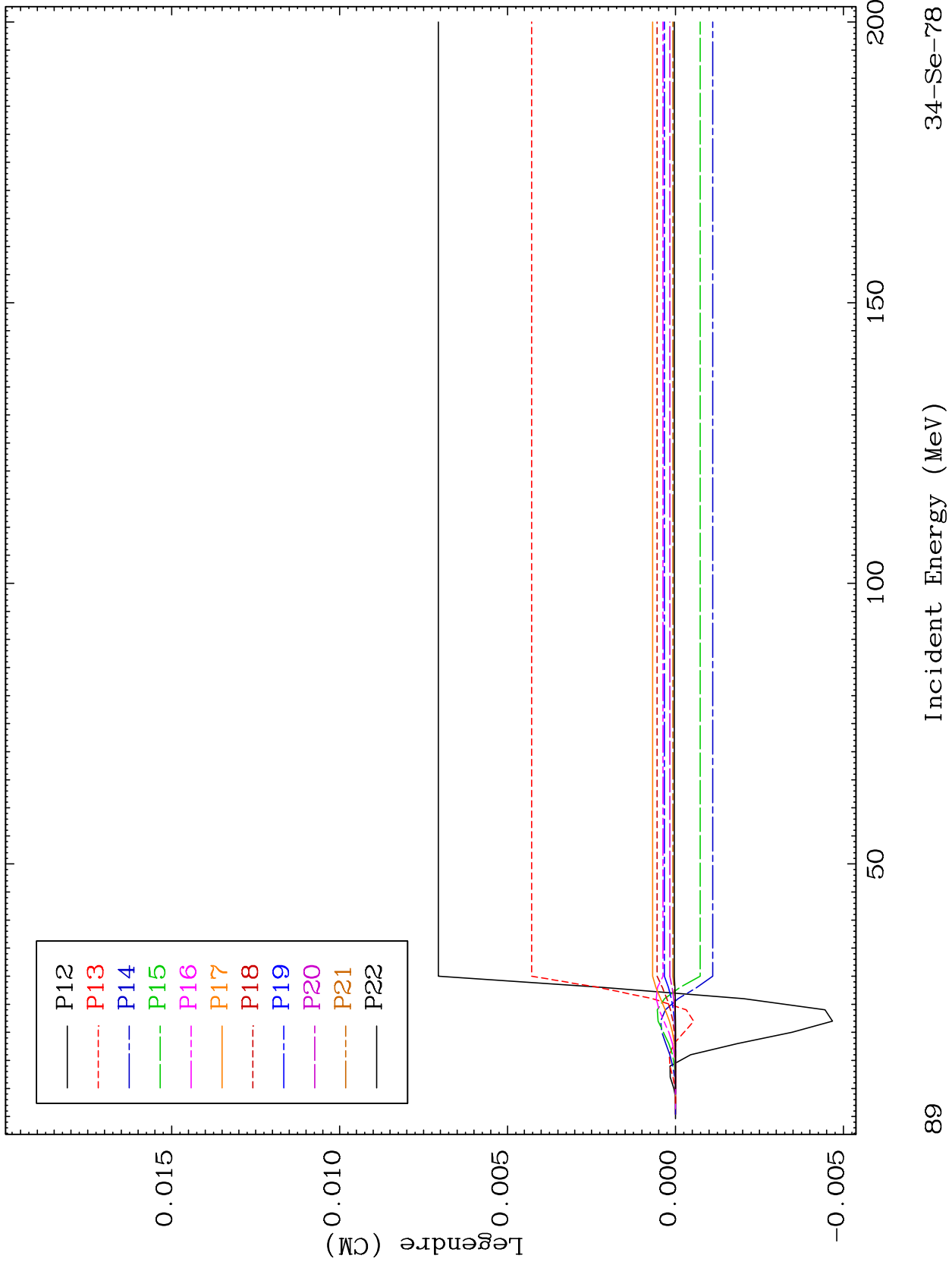
<sup>34</sup>Se-78



88

Incident Energy (MeV)

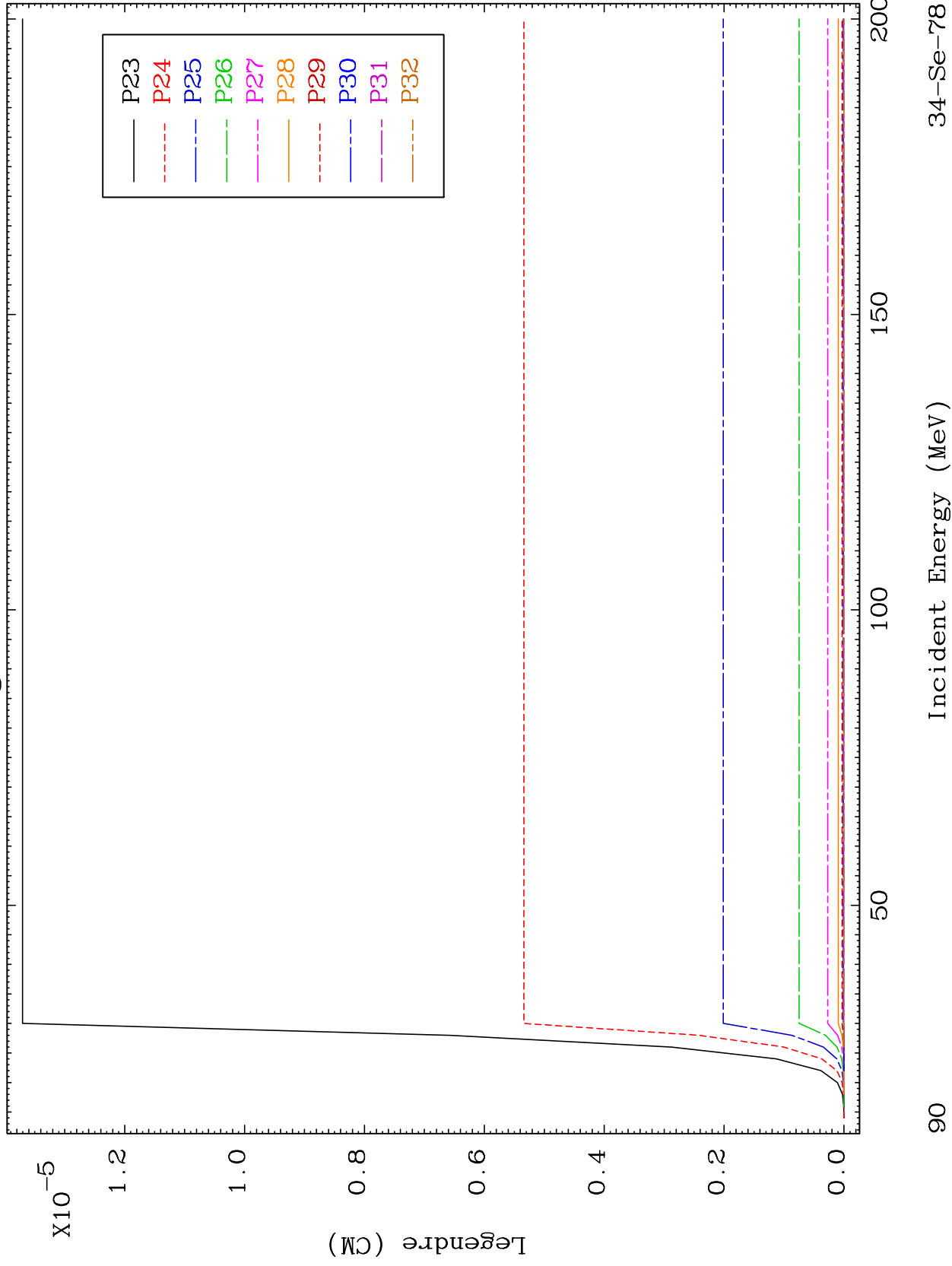
<sup>34</sup>Se-78



MAT 3437

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

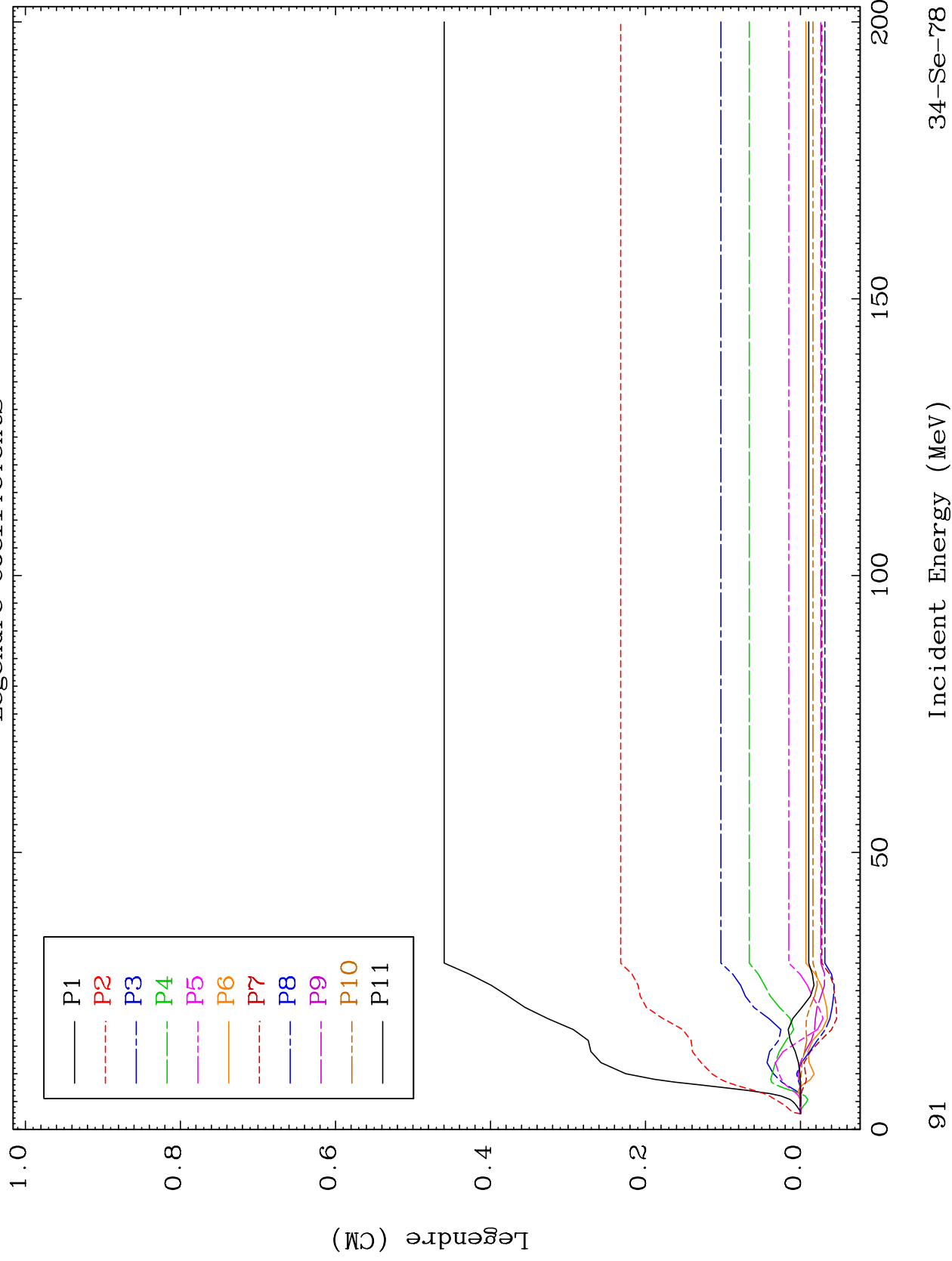
34-Se-78



MAT 3437

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

<sup>34</sup>Se-78



91

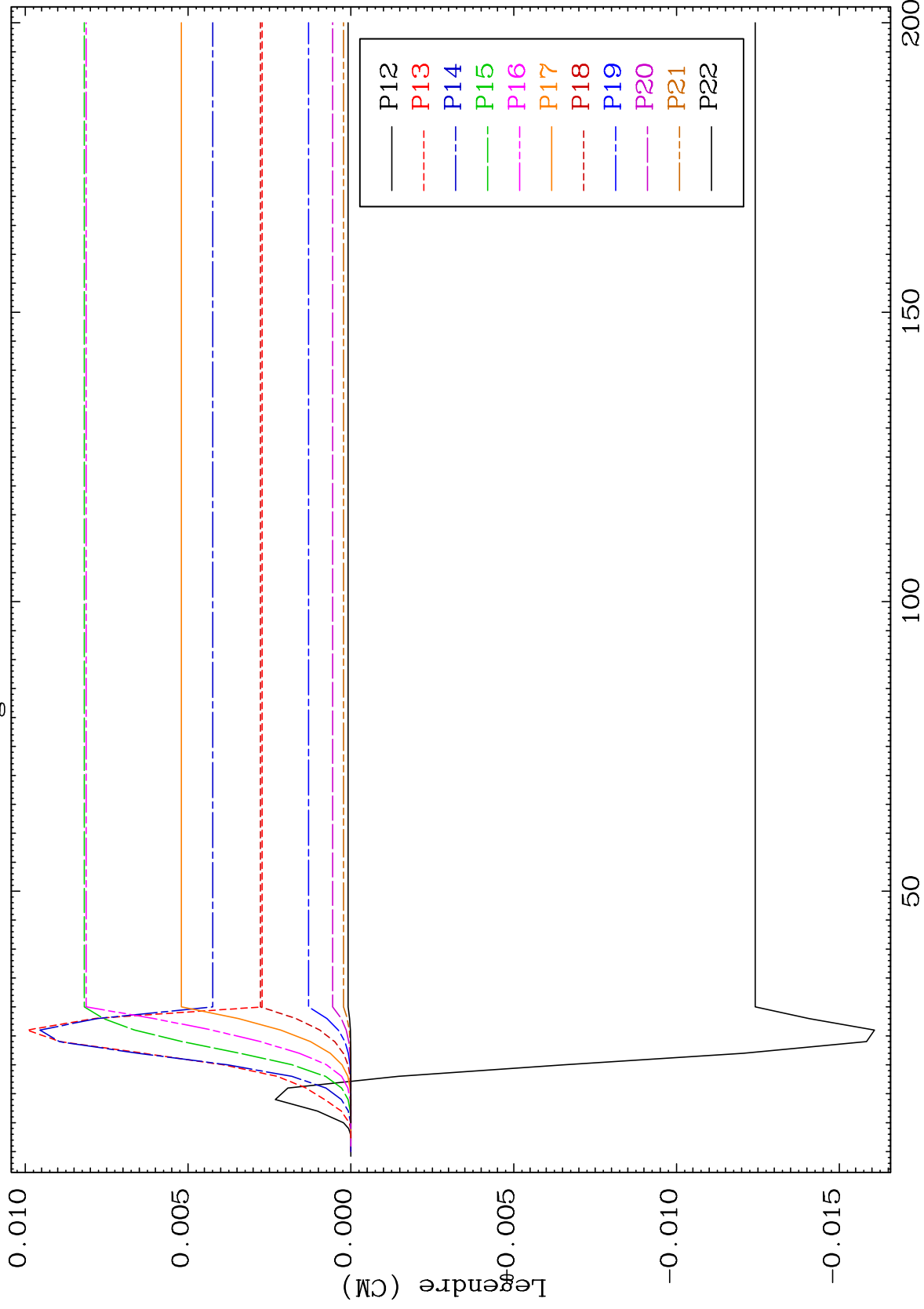
Incident Energy (MeV)

<sup>34</sup>Se-78

MAT 3437

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

34-Se-78



92

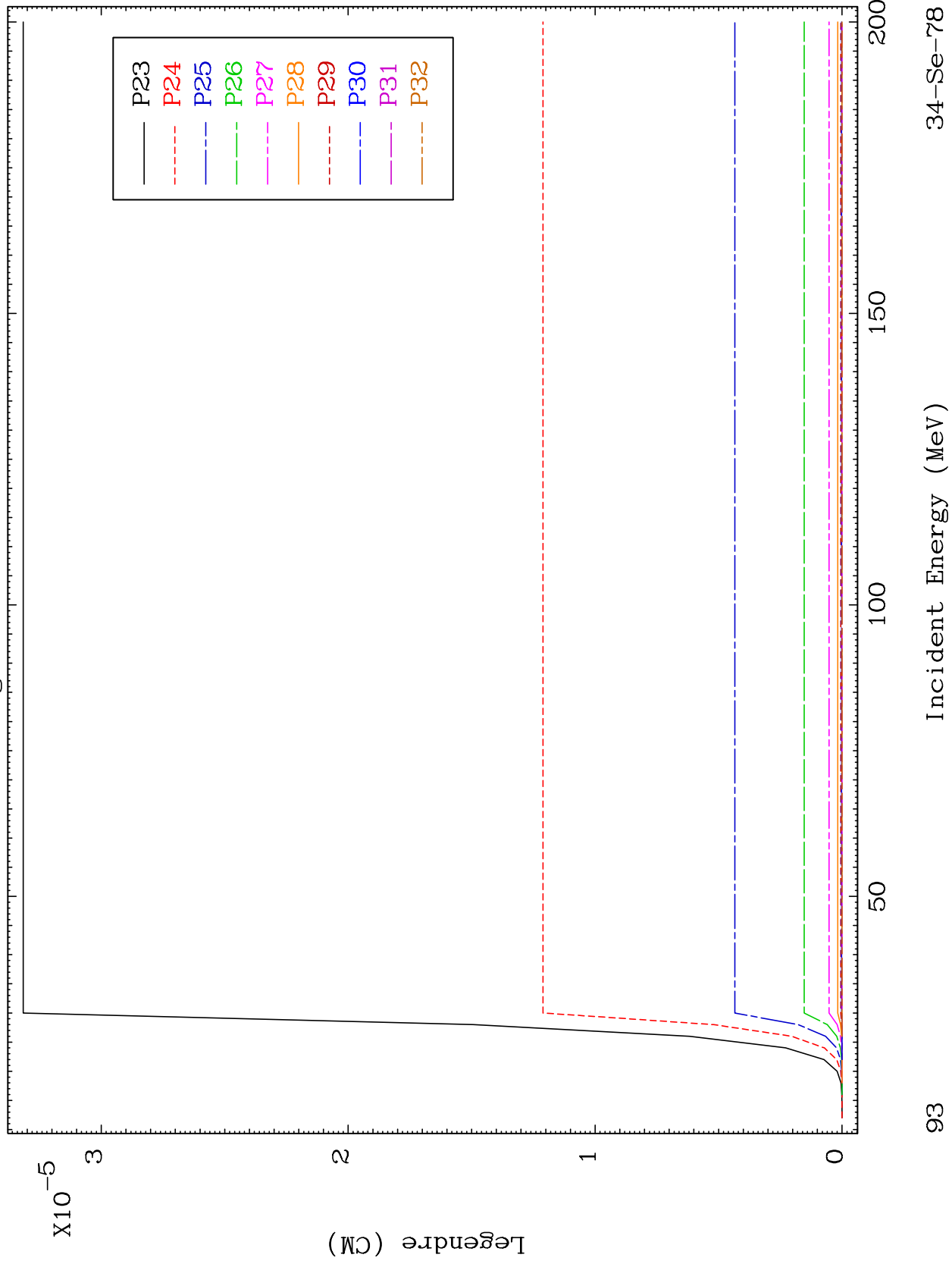
Incident Energy (MeV)

34-Se-78

MAT 3437

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

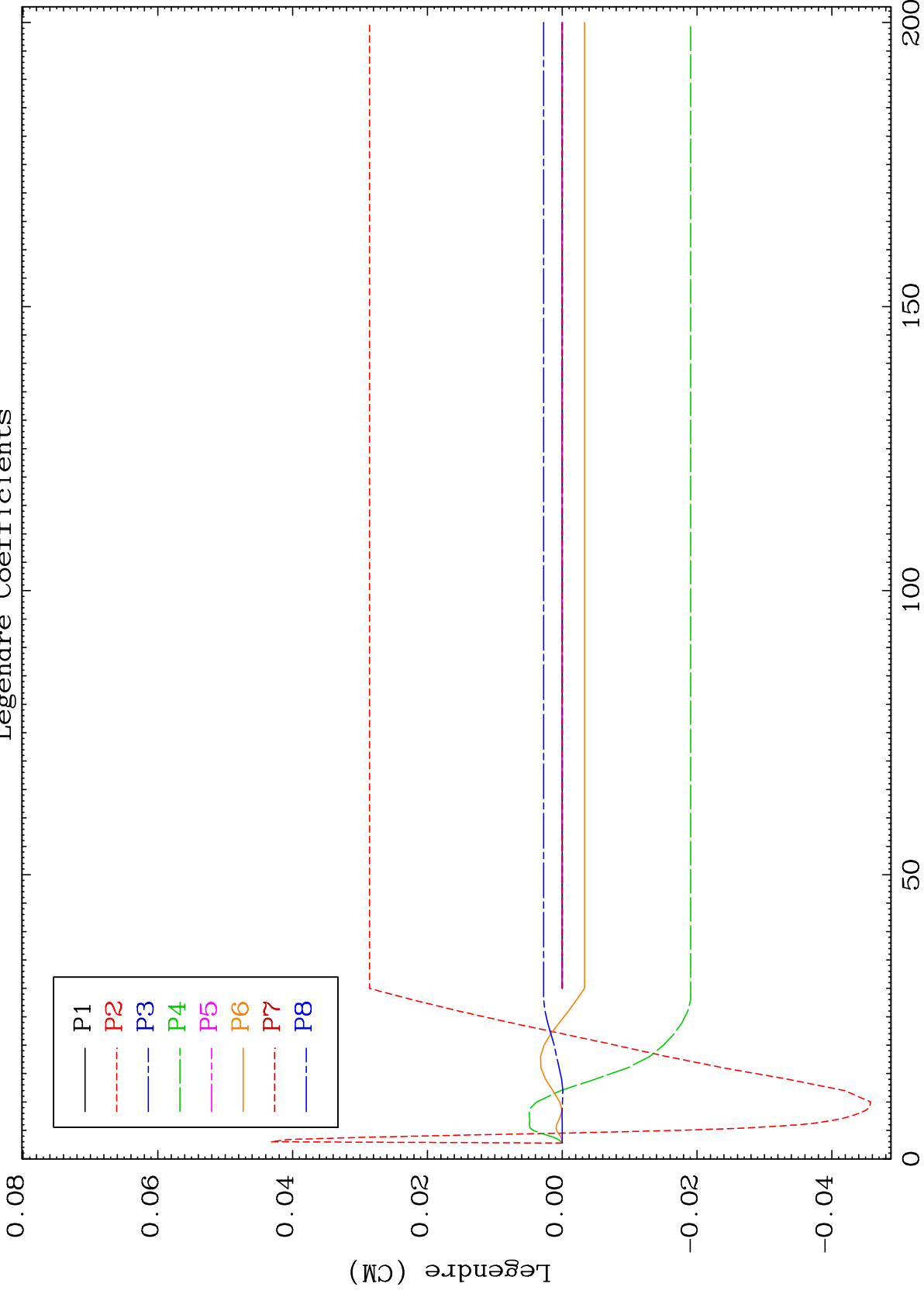
<sup>34</sup>Se-78



MAT 3437

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

<sup>34</sup>Se-78



94

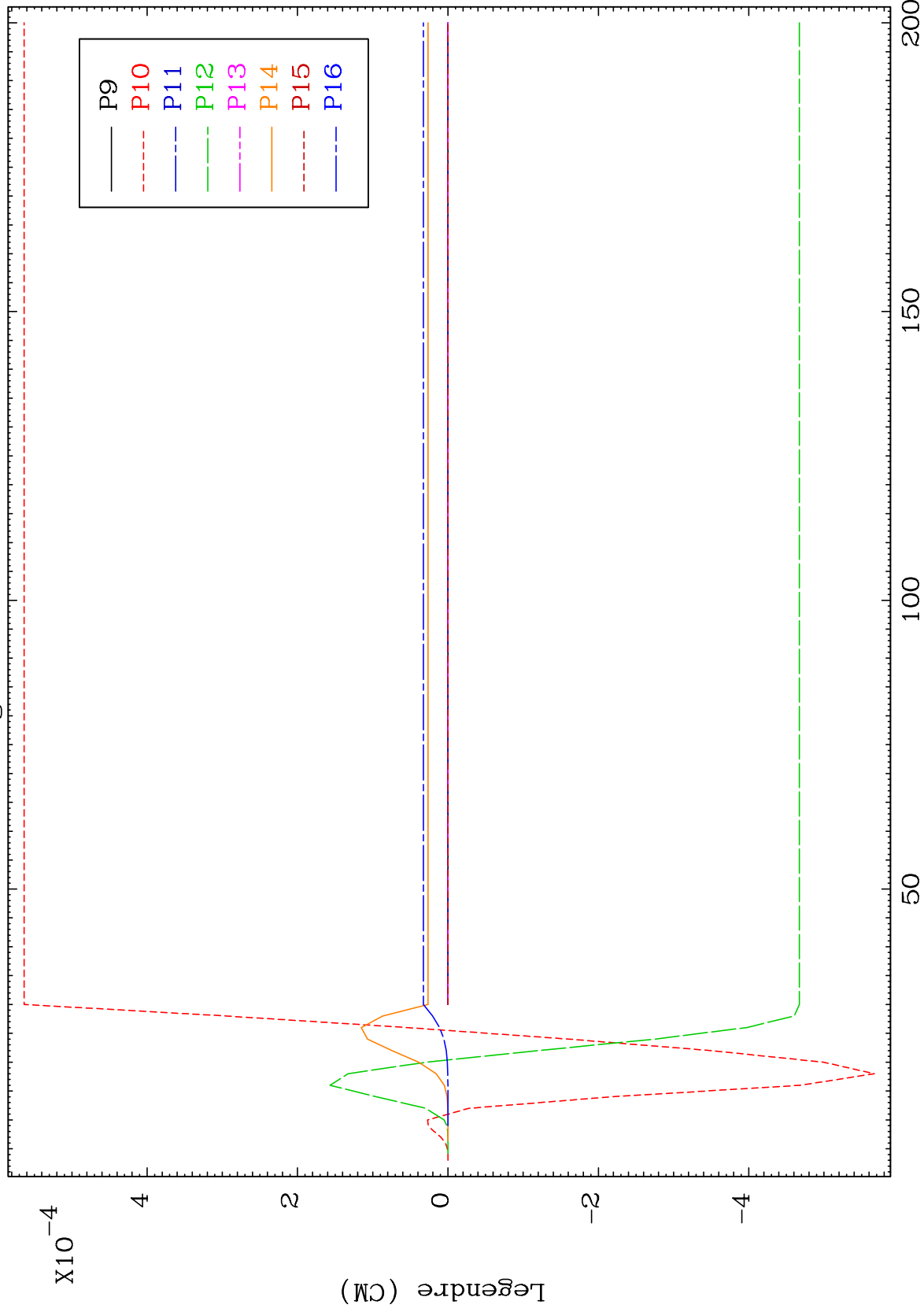
Incident Energy (MeV)

<sup>34</sup>Se-78

MAT 3437

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

34-Se-78



95

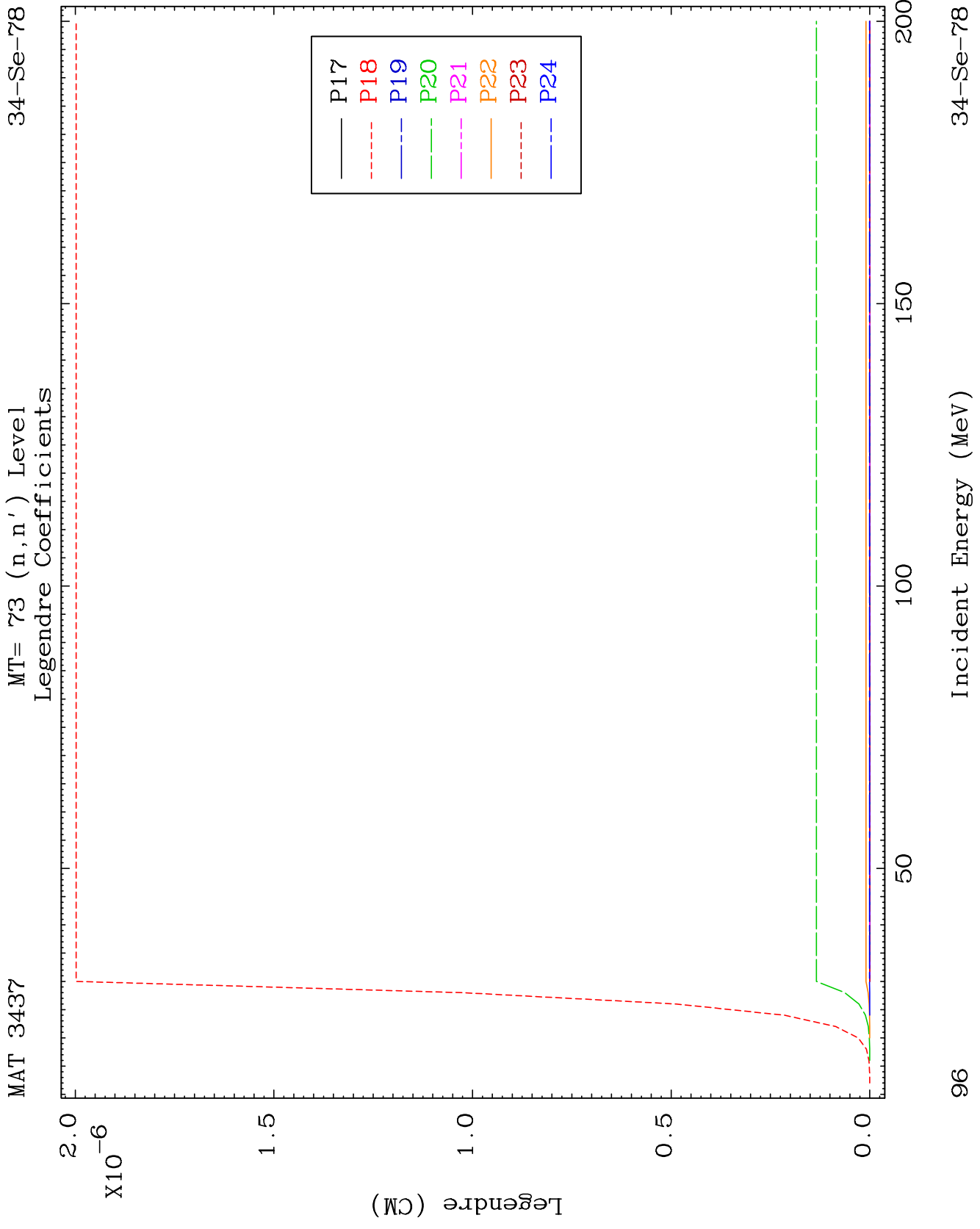
Incident Energy (MeV)

150

50

200

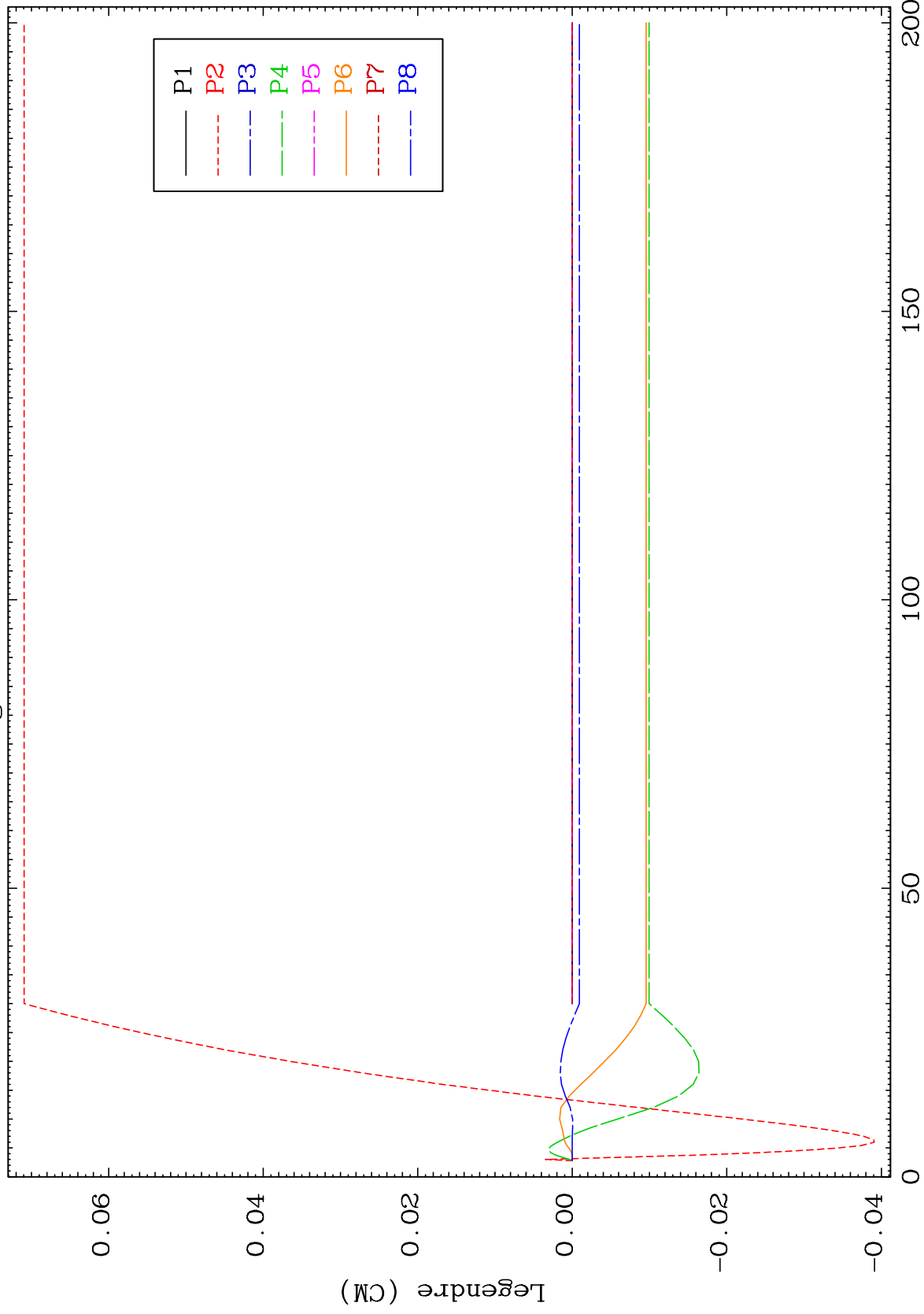
34-Se-78



MAT 3437

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

34-Se-78



97

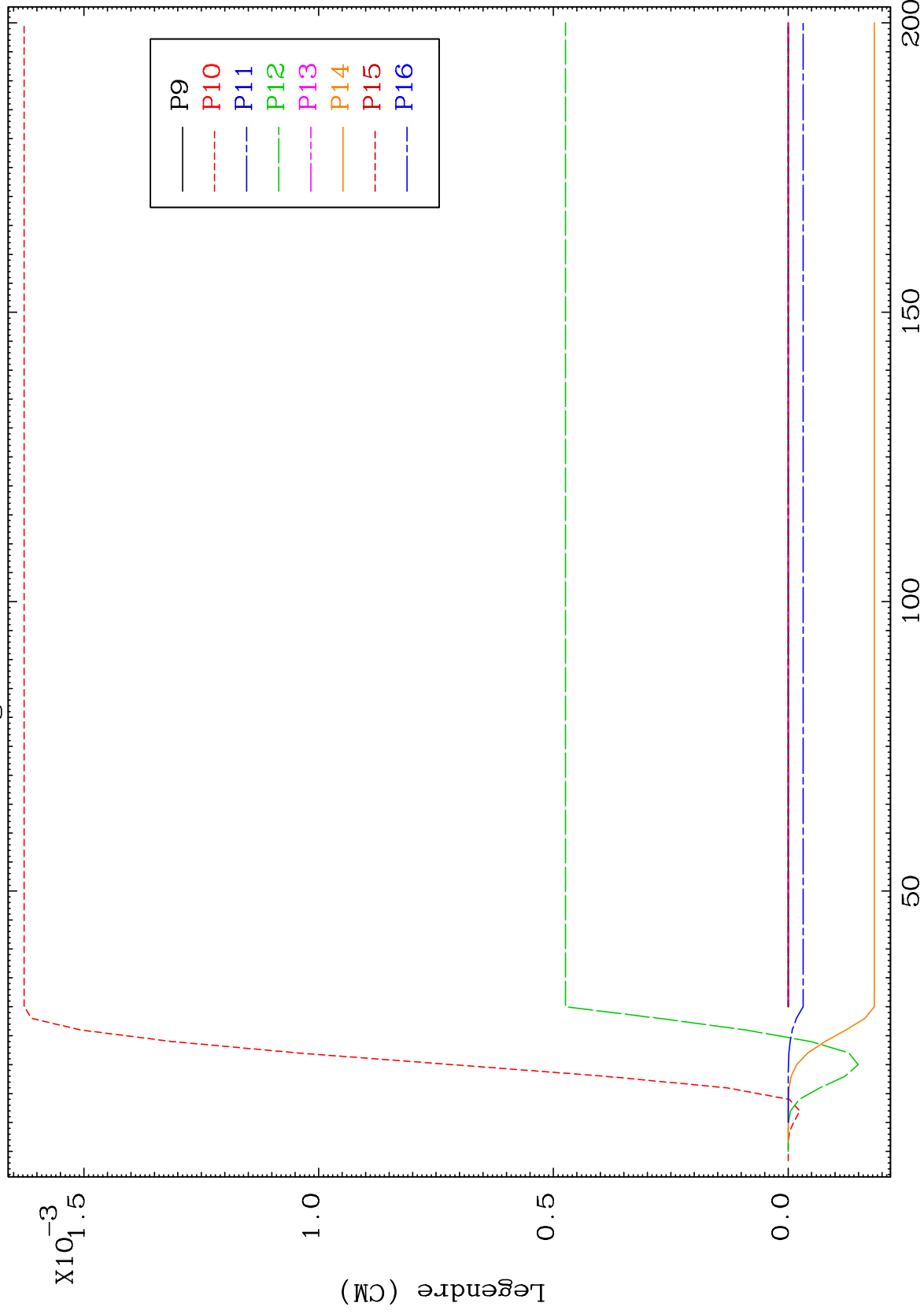
Incident Energy (MeV)

34-Se-78

MAT 3437

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

34-Se-78

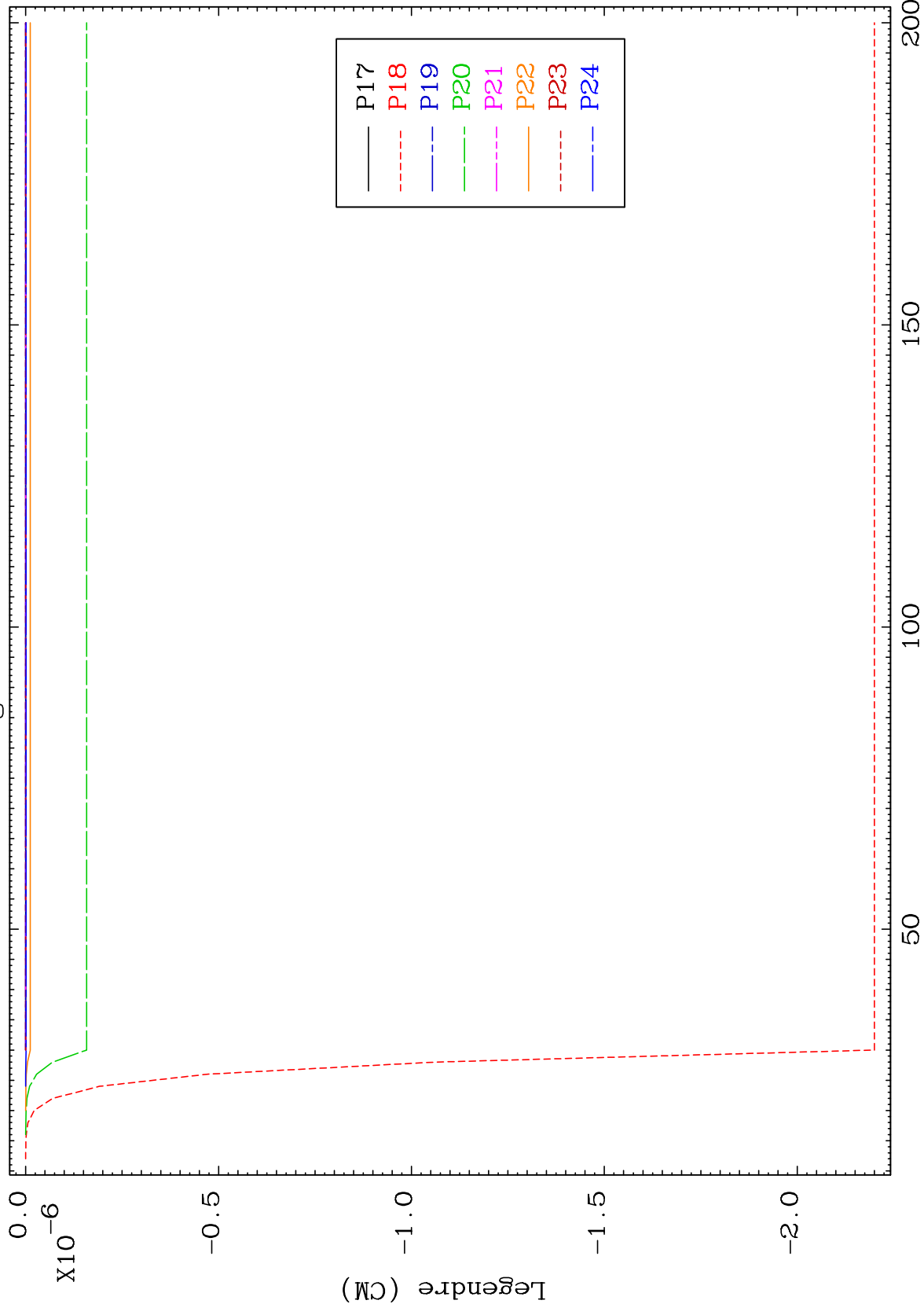


34-Se-78

MAT 3437

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

34-Se-78



99

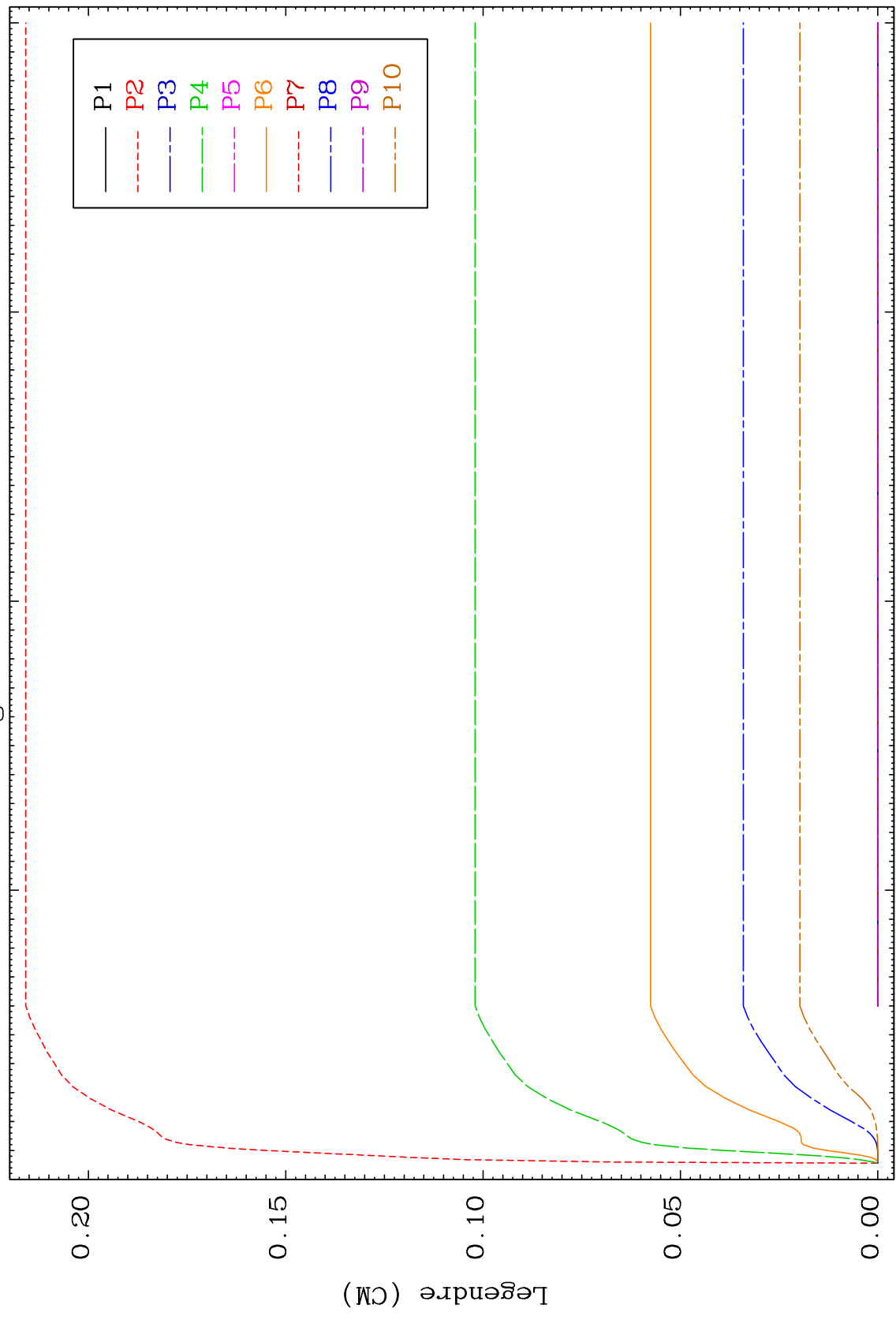
Incident Energy (MeV)

34-Se-78

MAT 3437

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

34-Se-78



34-Se-78

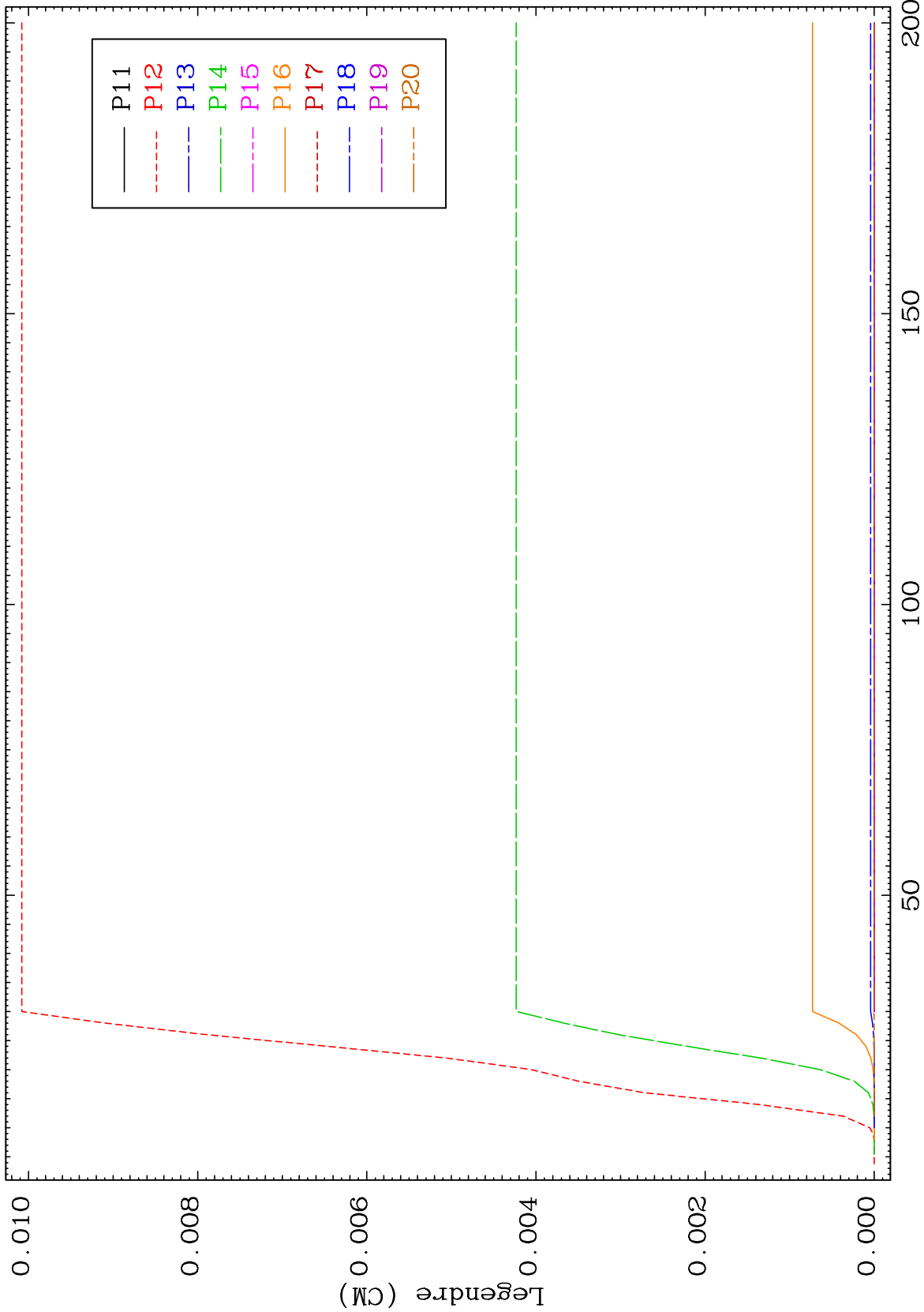
Incident Energy (MeV)

Legendre (CM)

MAT 3437

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

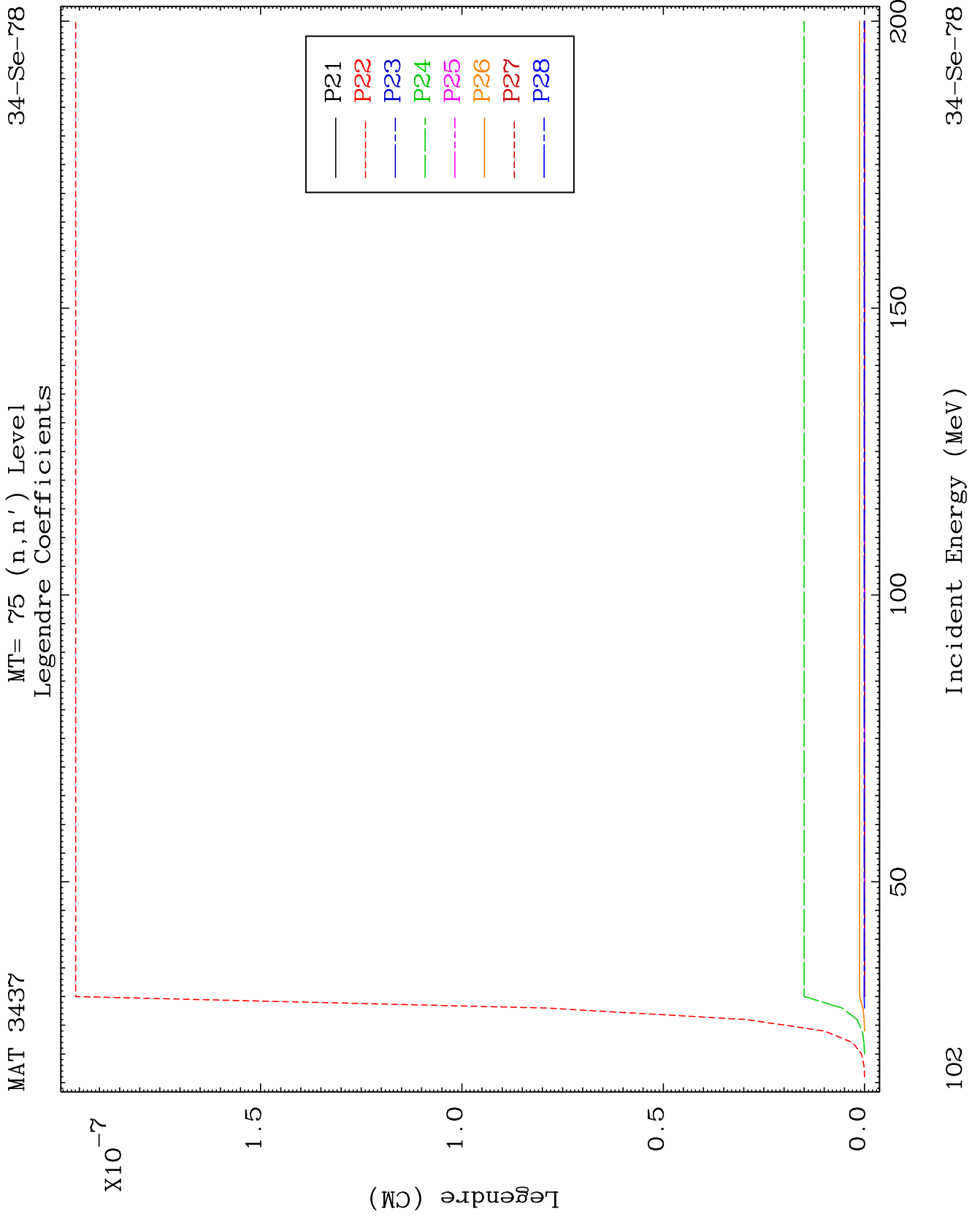
34-Se-78



101

Incident Energy (MeV)

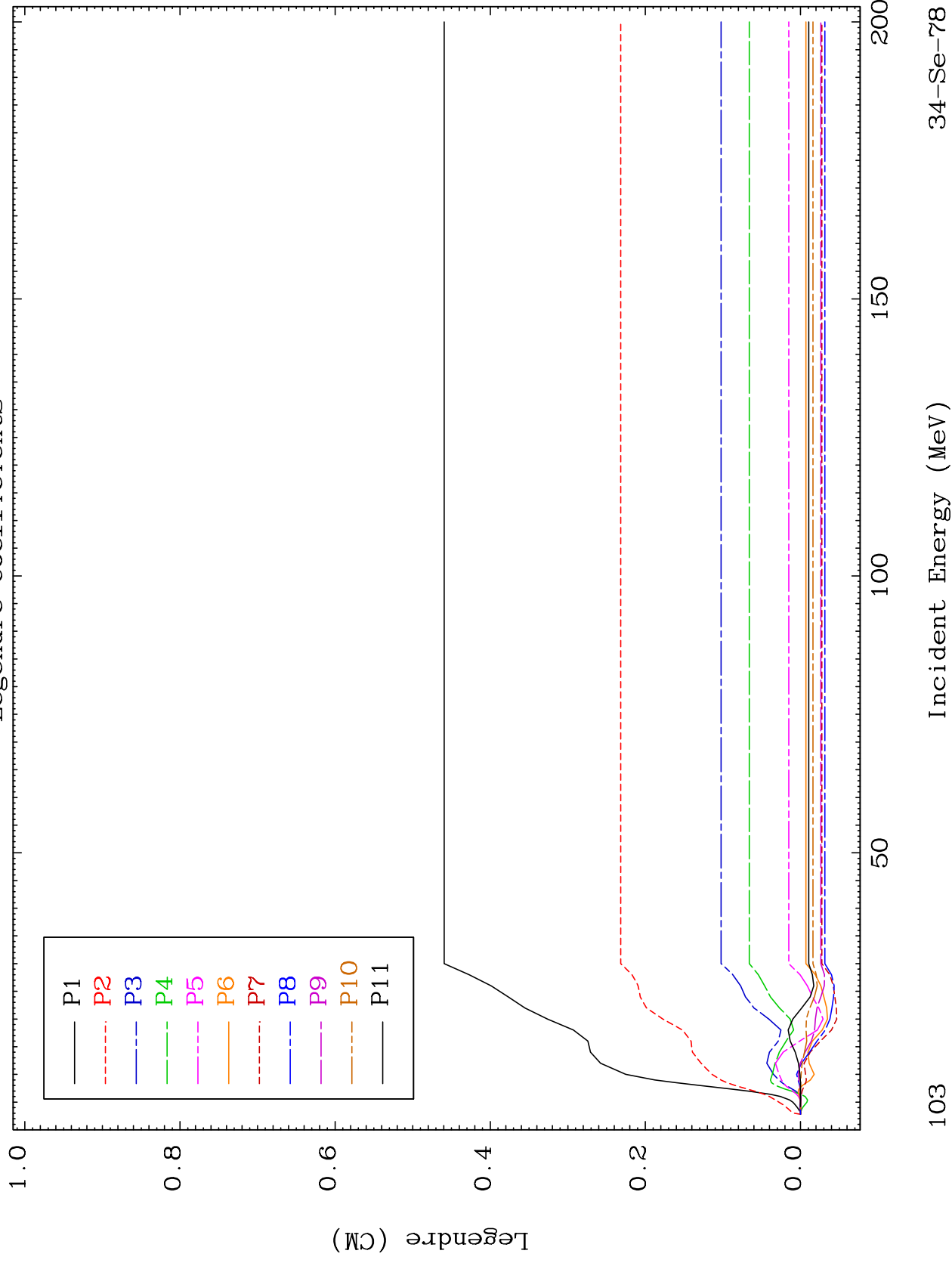
34-Se-78



MAT 3437

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

<sup>34</sup>Se-78

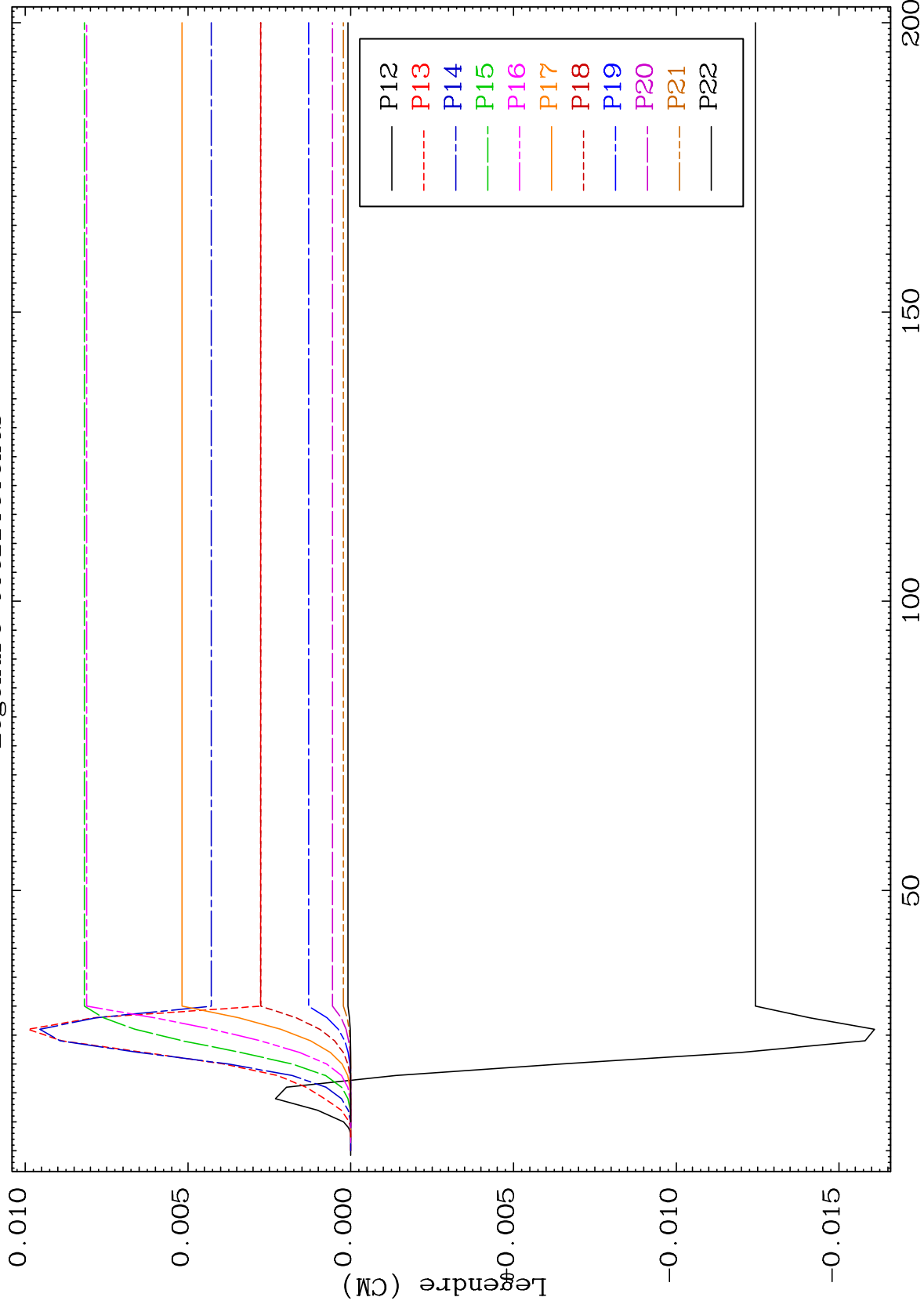


103

MAT 3437

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

34-Se-78



104

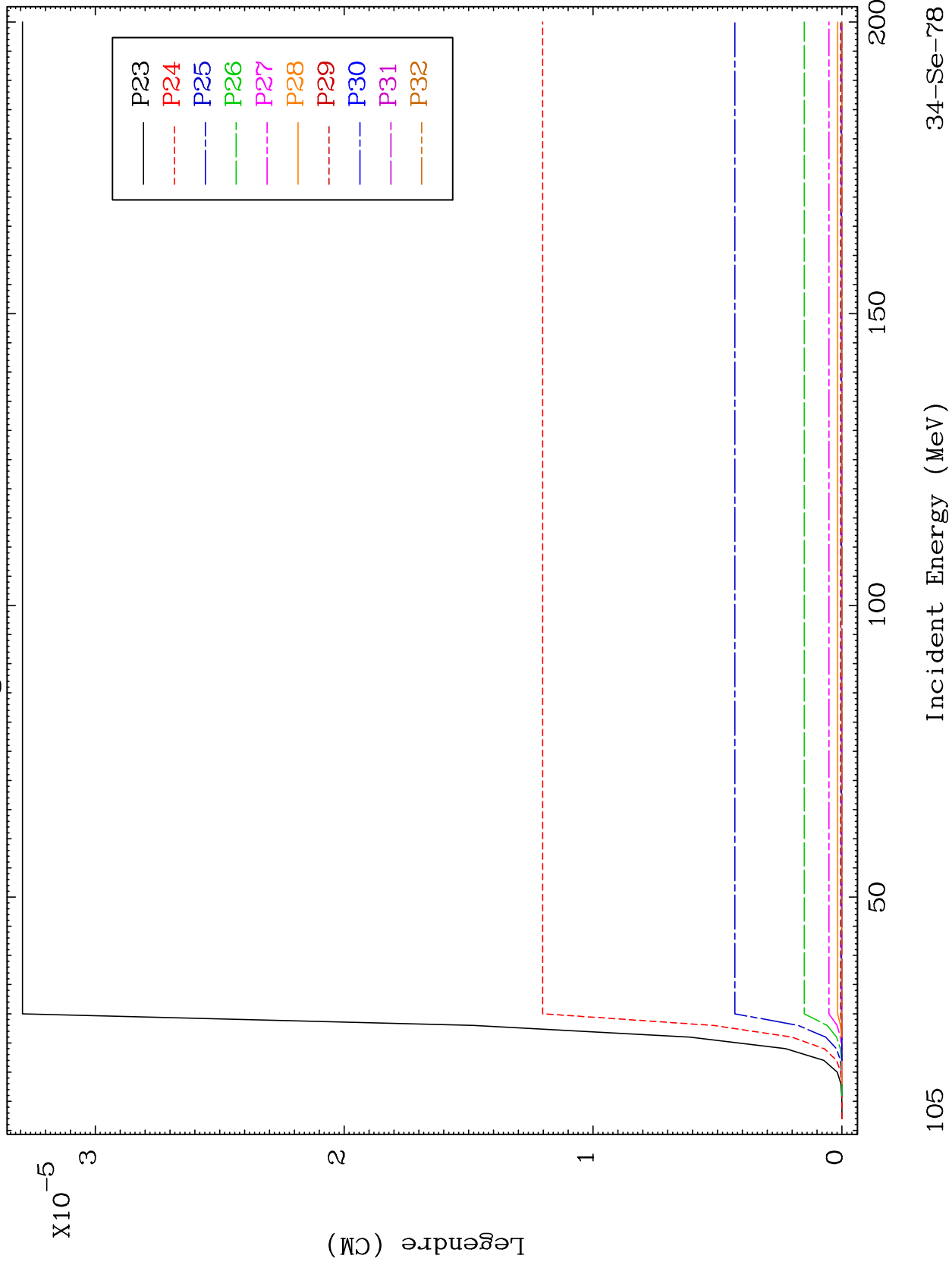
Incident Energy (MeV)

34-Se-78

MAT 3437

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

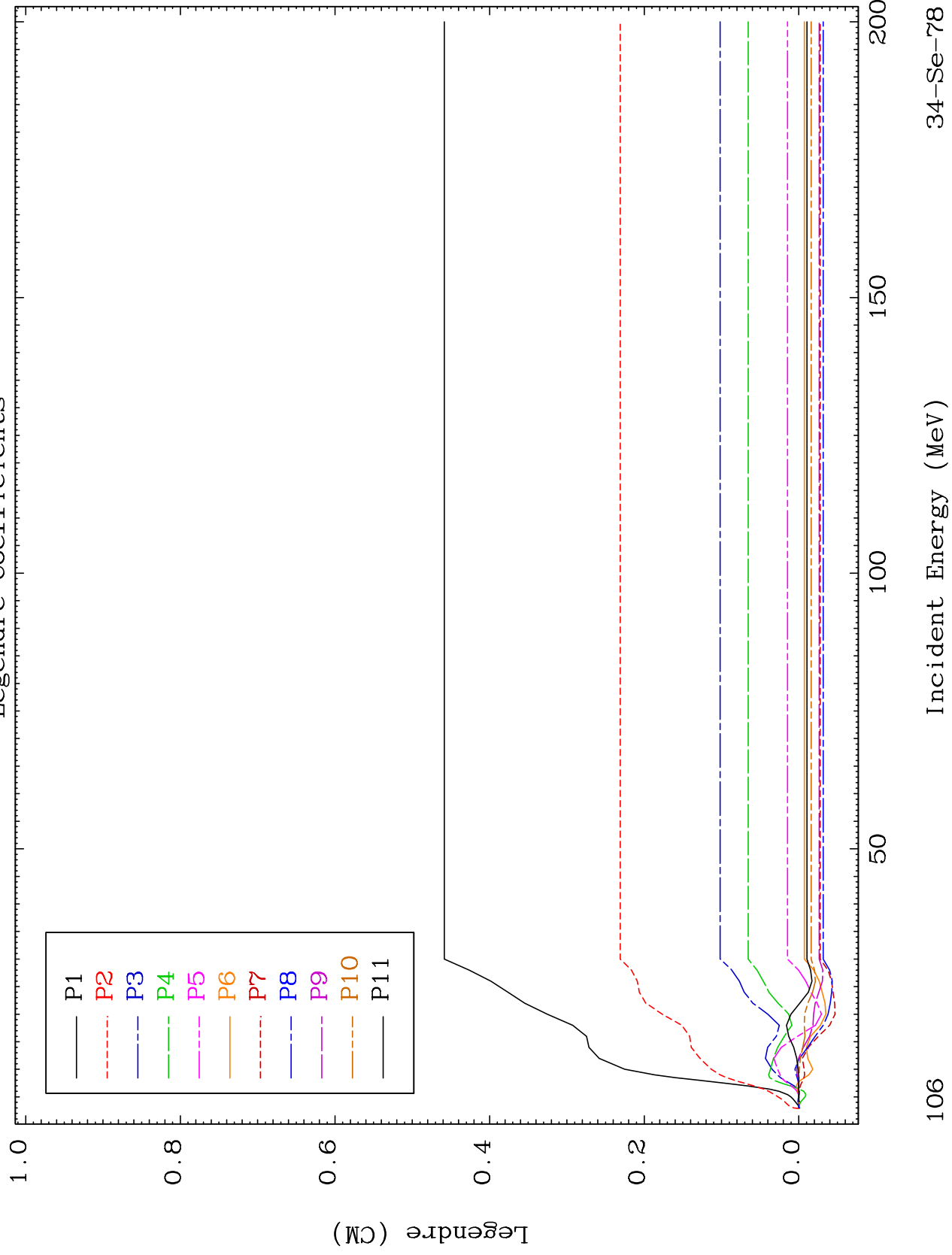
<sup>34</sup>Se-78

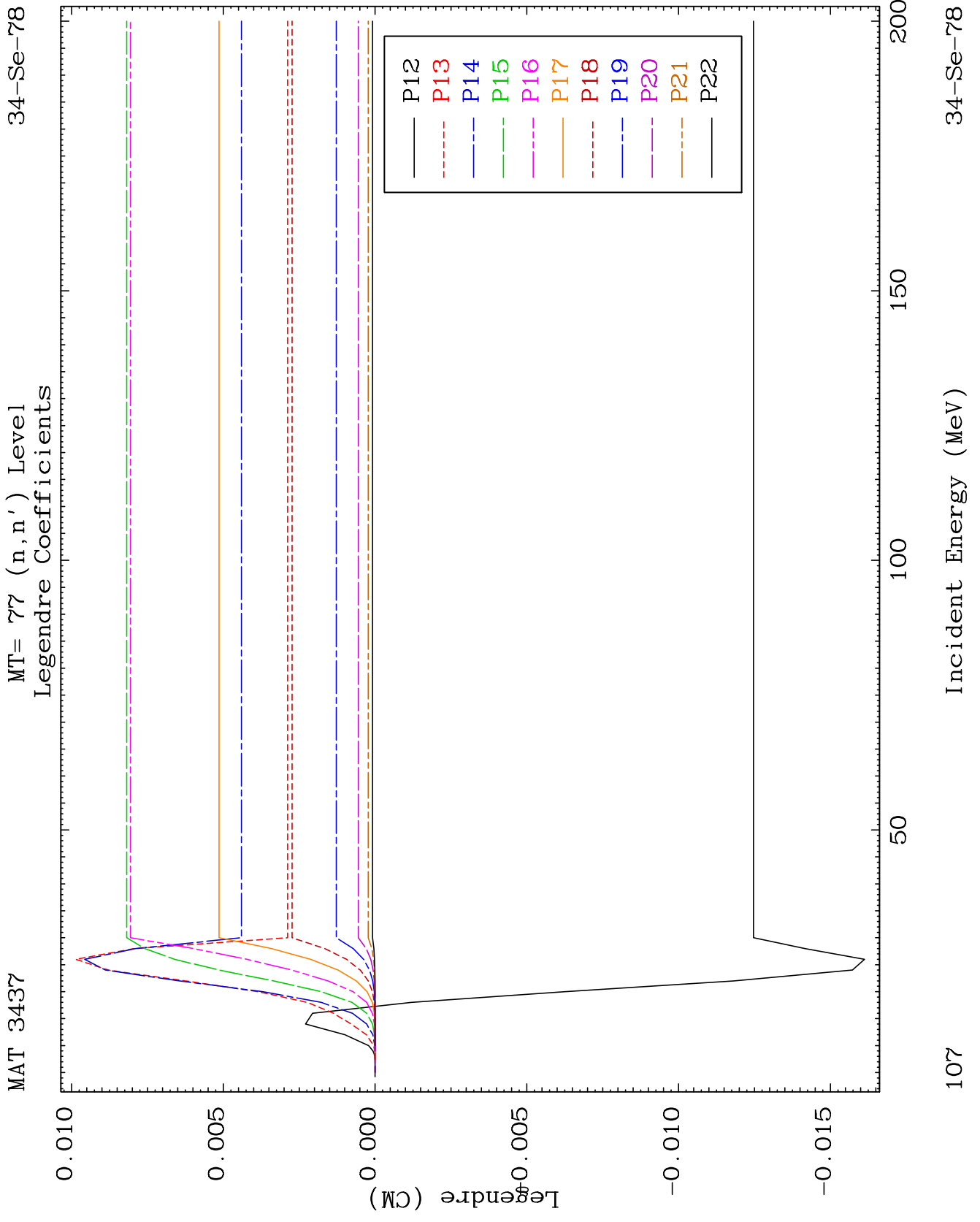


MAT 3437

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

<sup>34</sup>Se-78

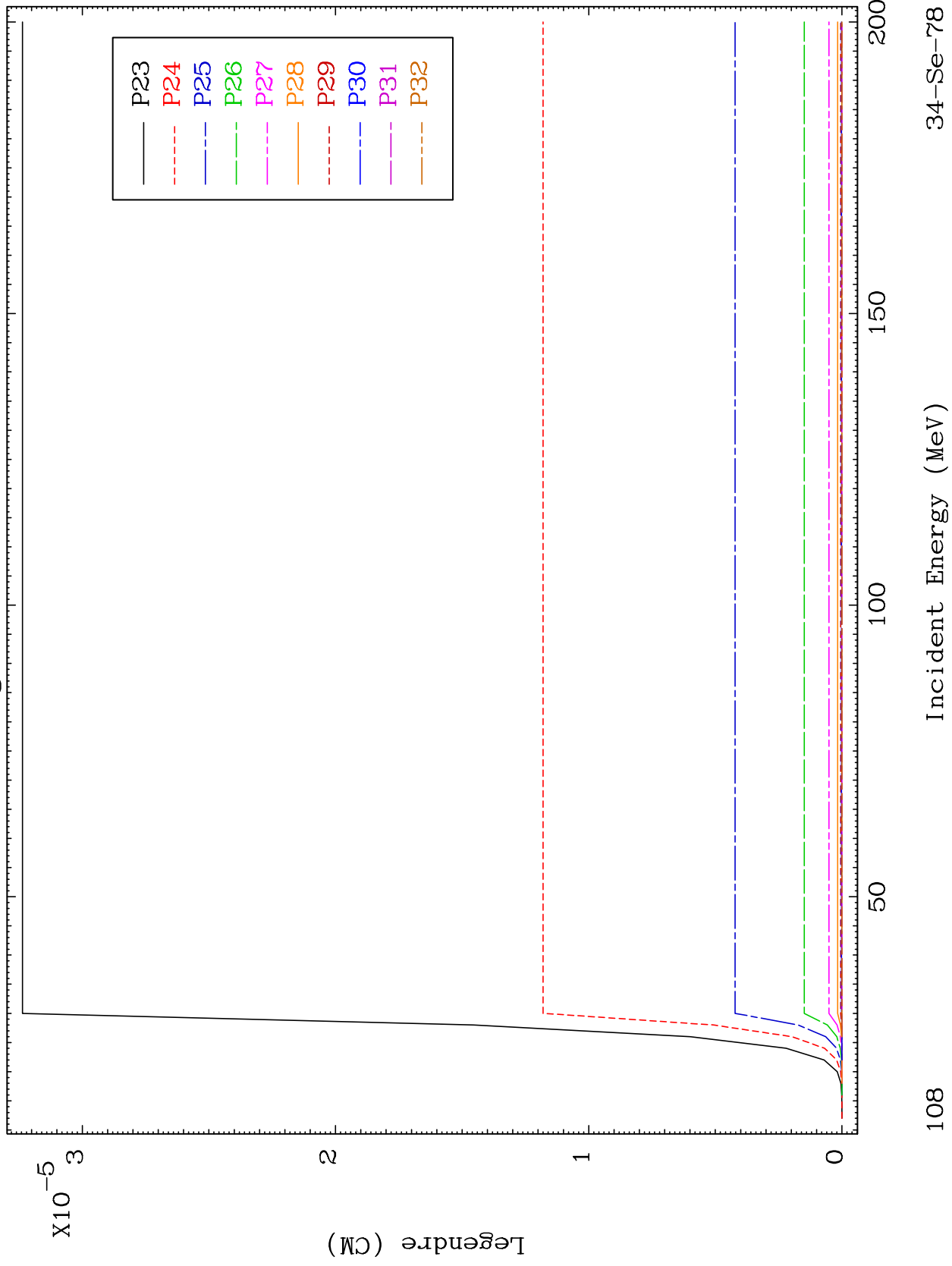




MAT 3437

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

<sup>34</sup>Se-78



108

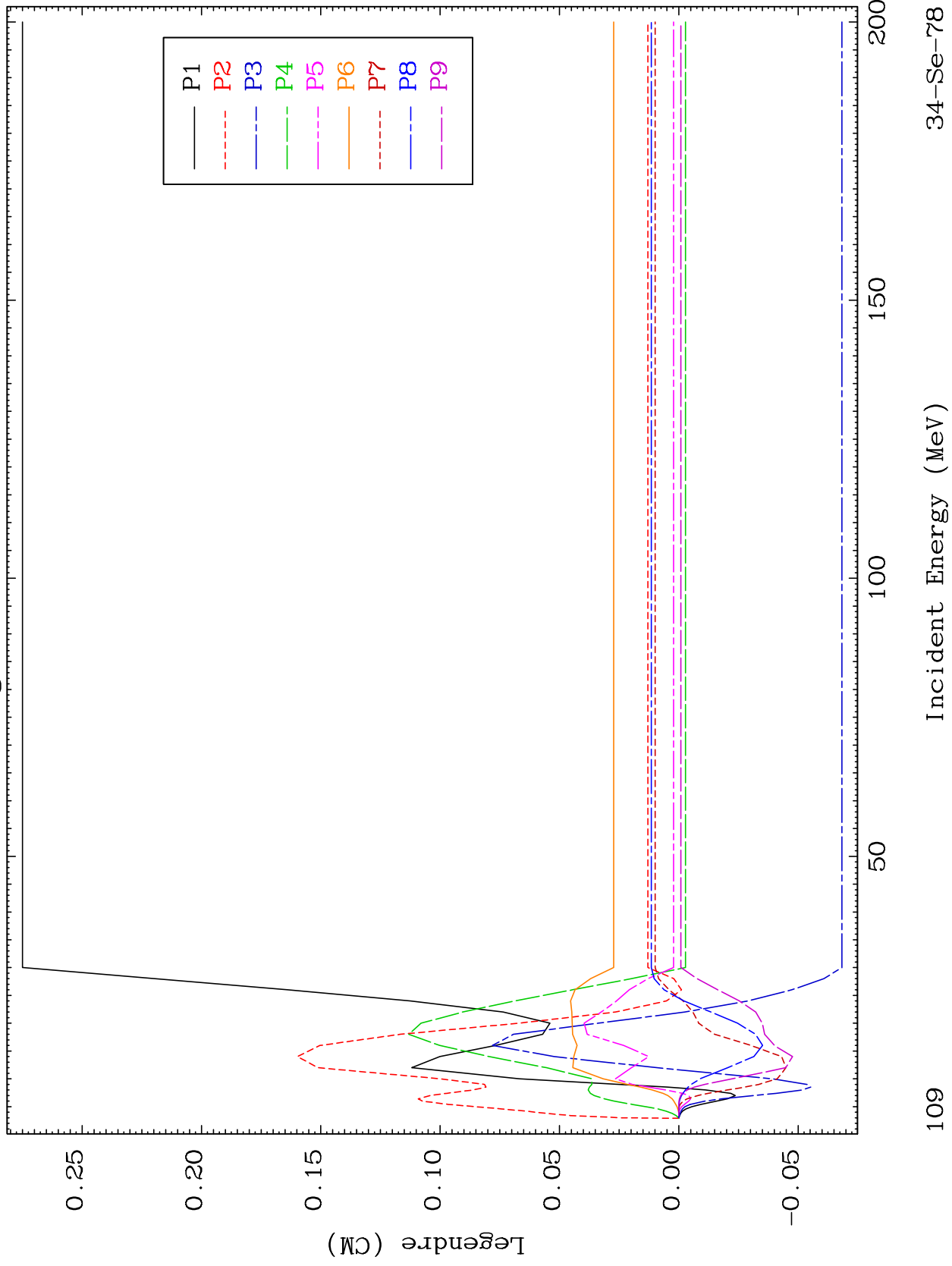
Incident Energy (MeV)

<sup>34</sup>Se-78

MAT 3437

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

<sup>34</sup>Se-78



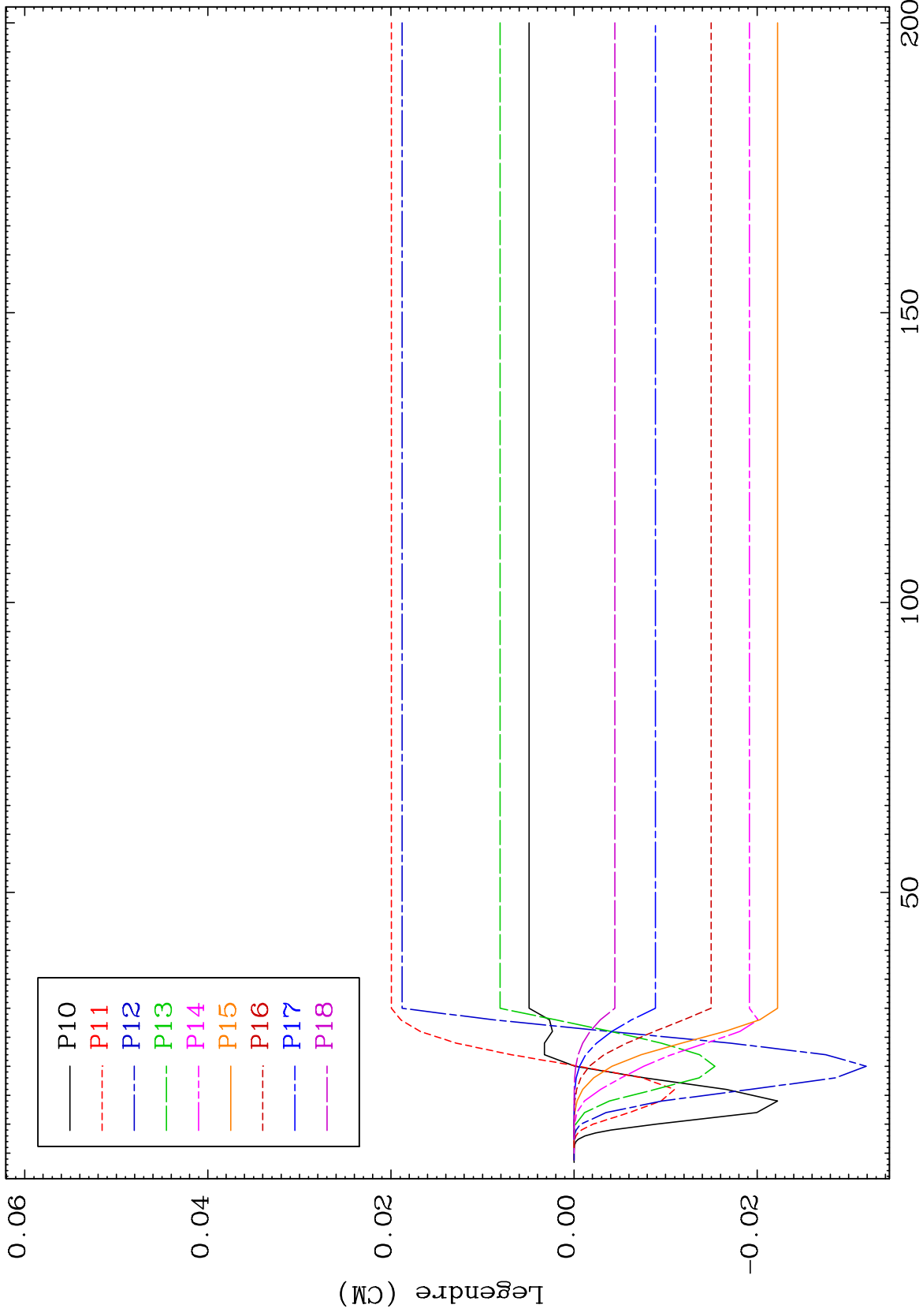
109

<sup>34</sup>Se-78

MAT 3437

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

34-Se-78



110

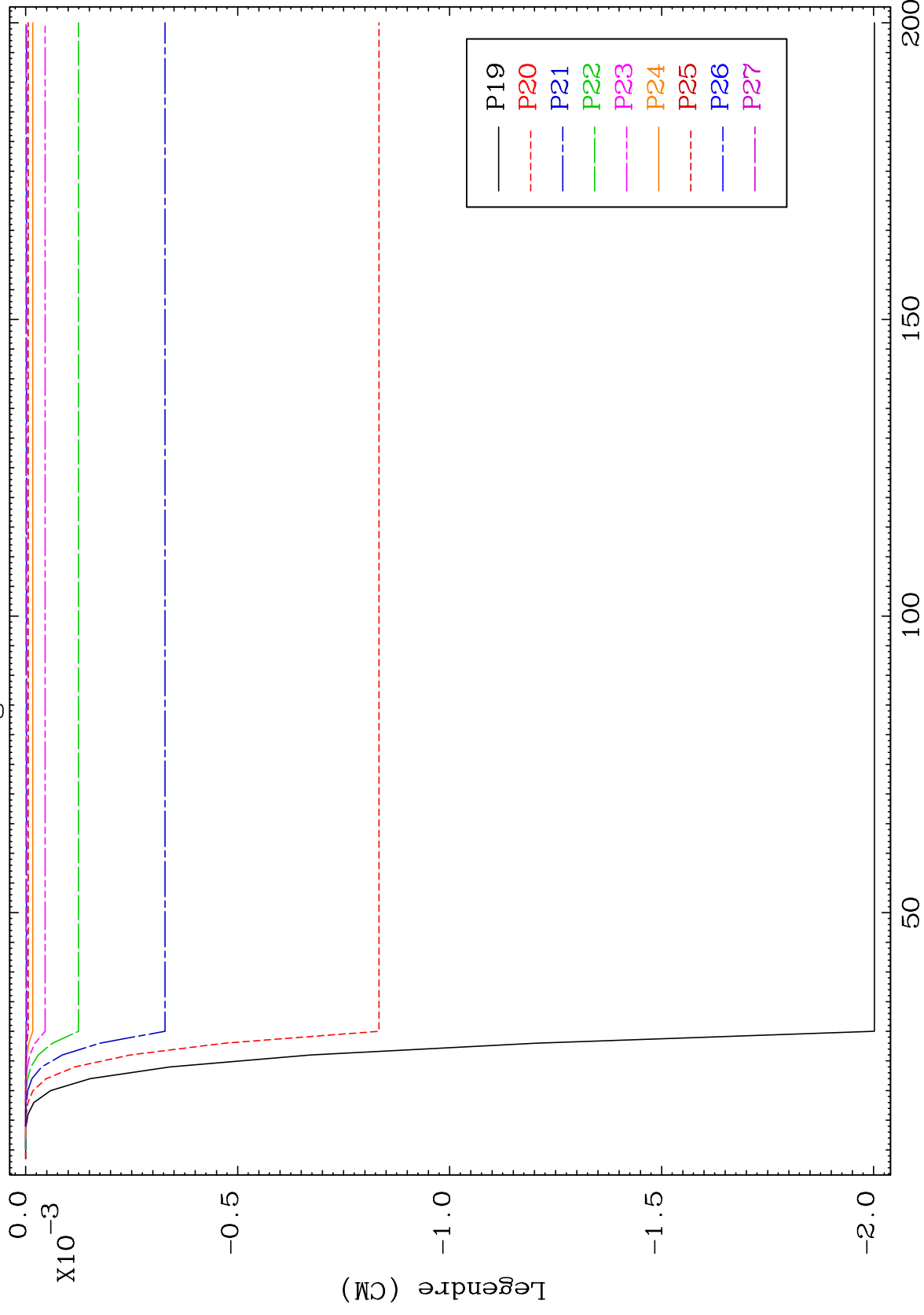
Incident Energy (MeV)

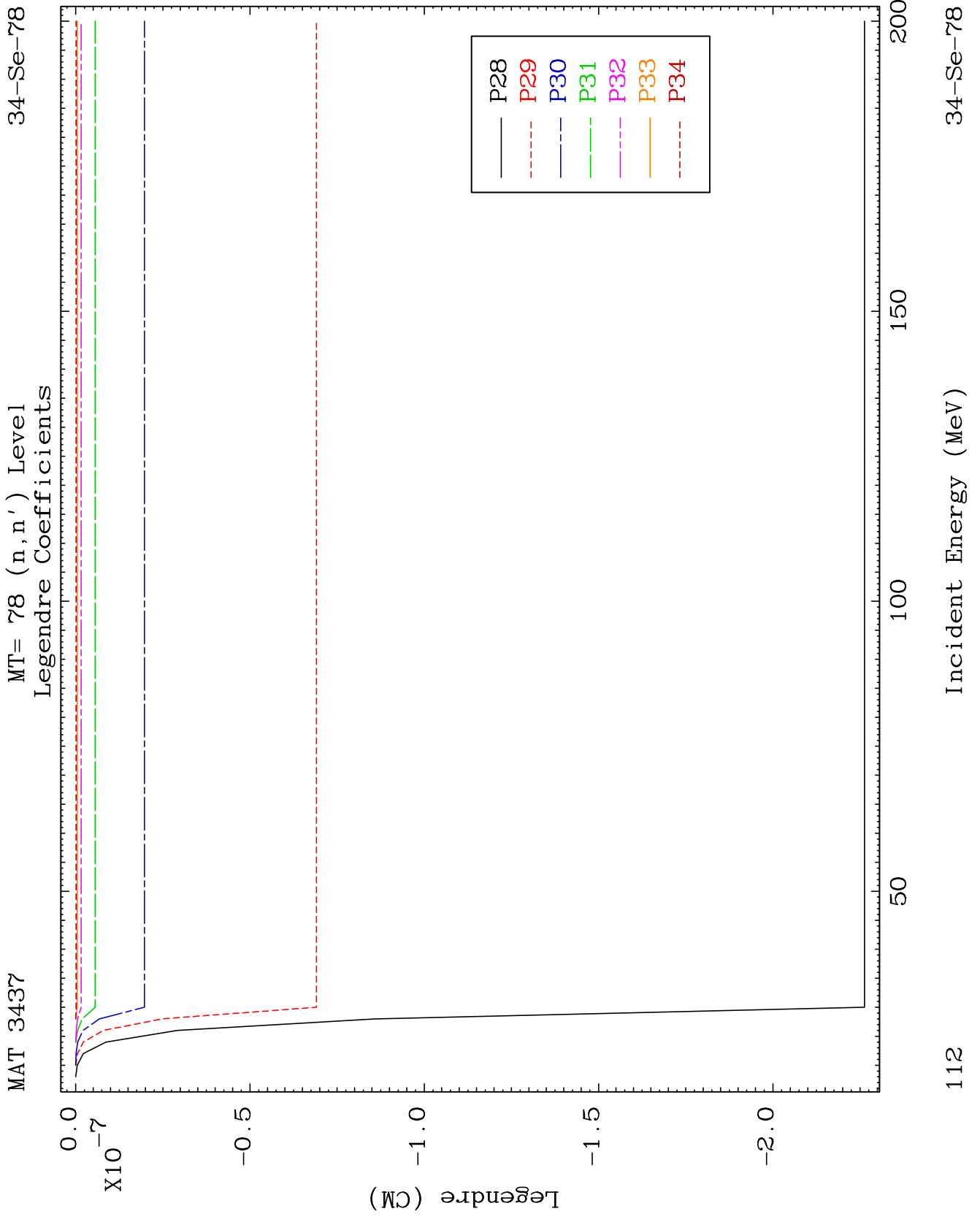
34-Se-78

MAT 3437

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

34-Se-78

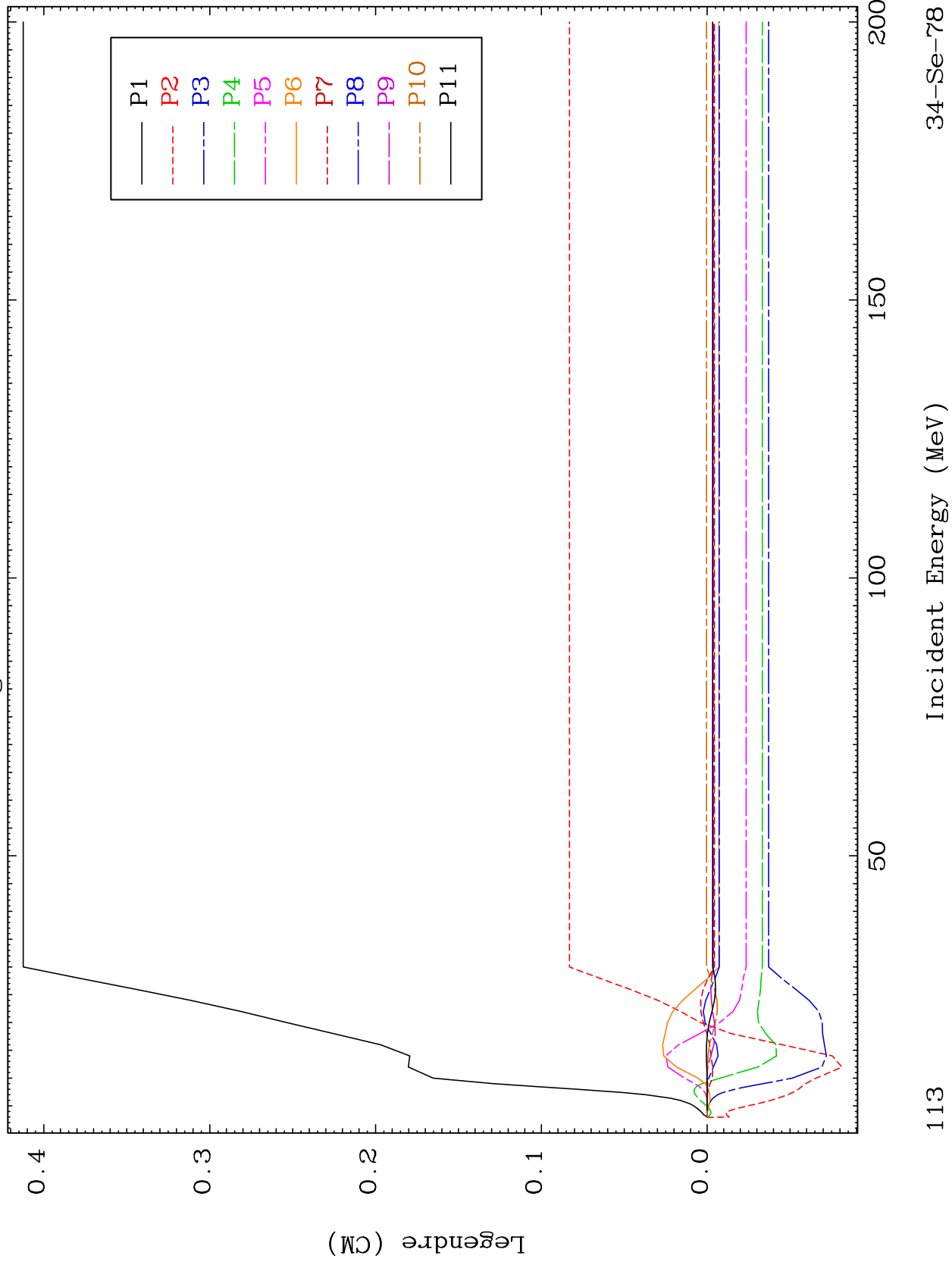




MAT 3437

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

<sup>34</sup>Se-78



113

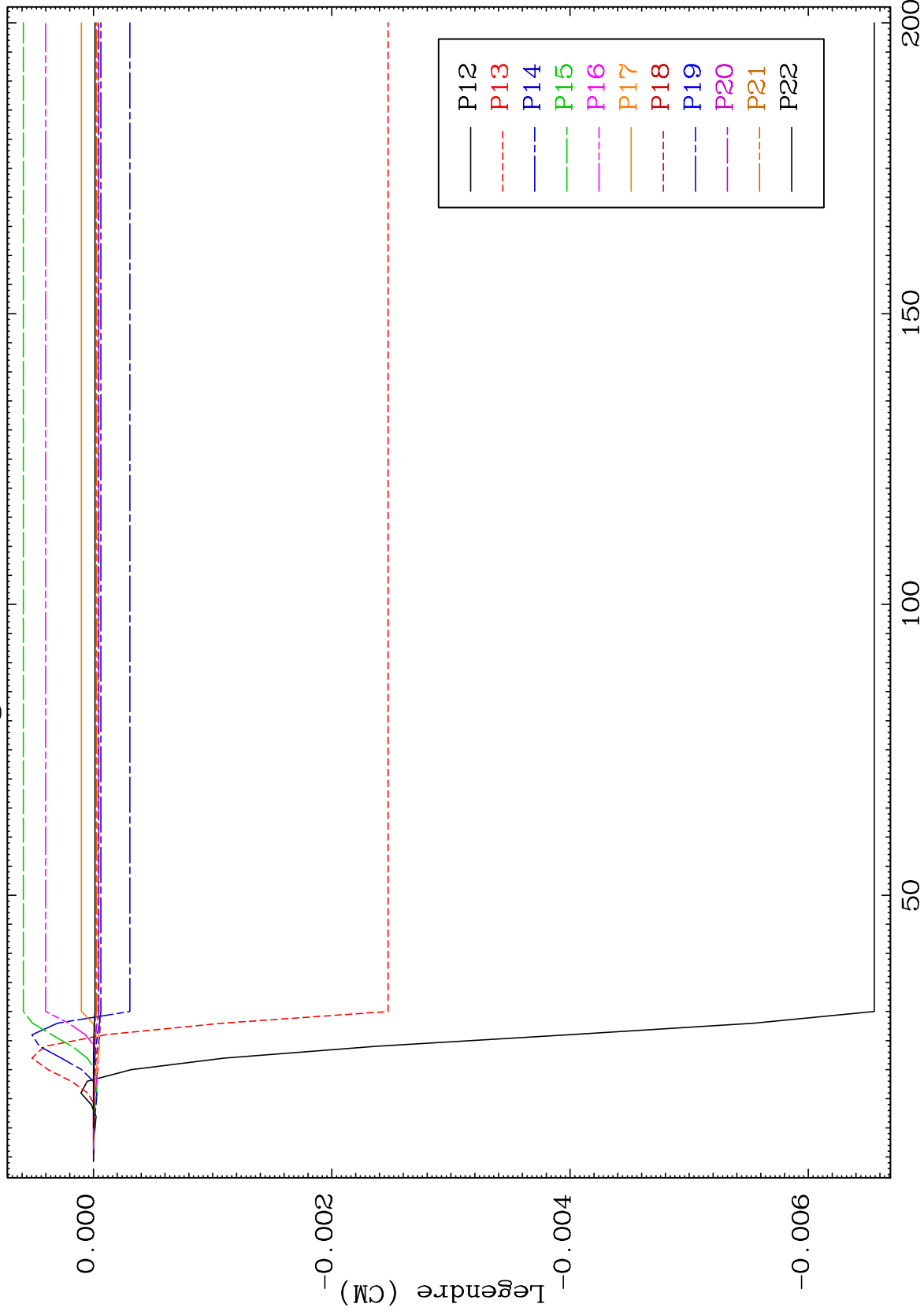
Incident Energy (MeV)

<sup>34</sup>Se-78

MAT 3437

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

34-Se-78



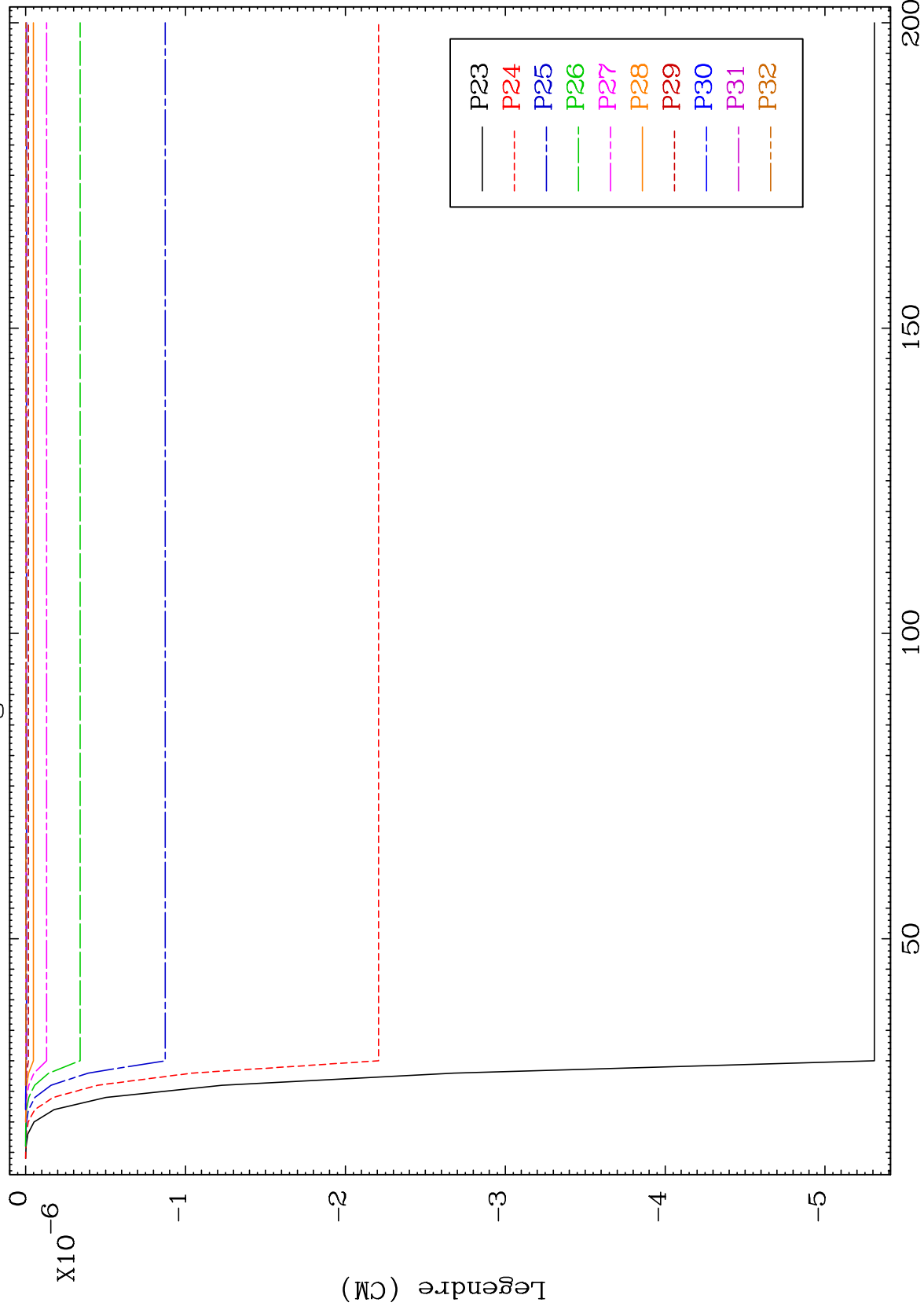
114

Incident Energy (MeV)

34-Se-78

MAT 3437 MT= 79 (n,n') Level 34-Se-78

Legendre Coefficients

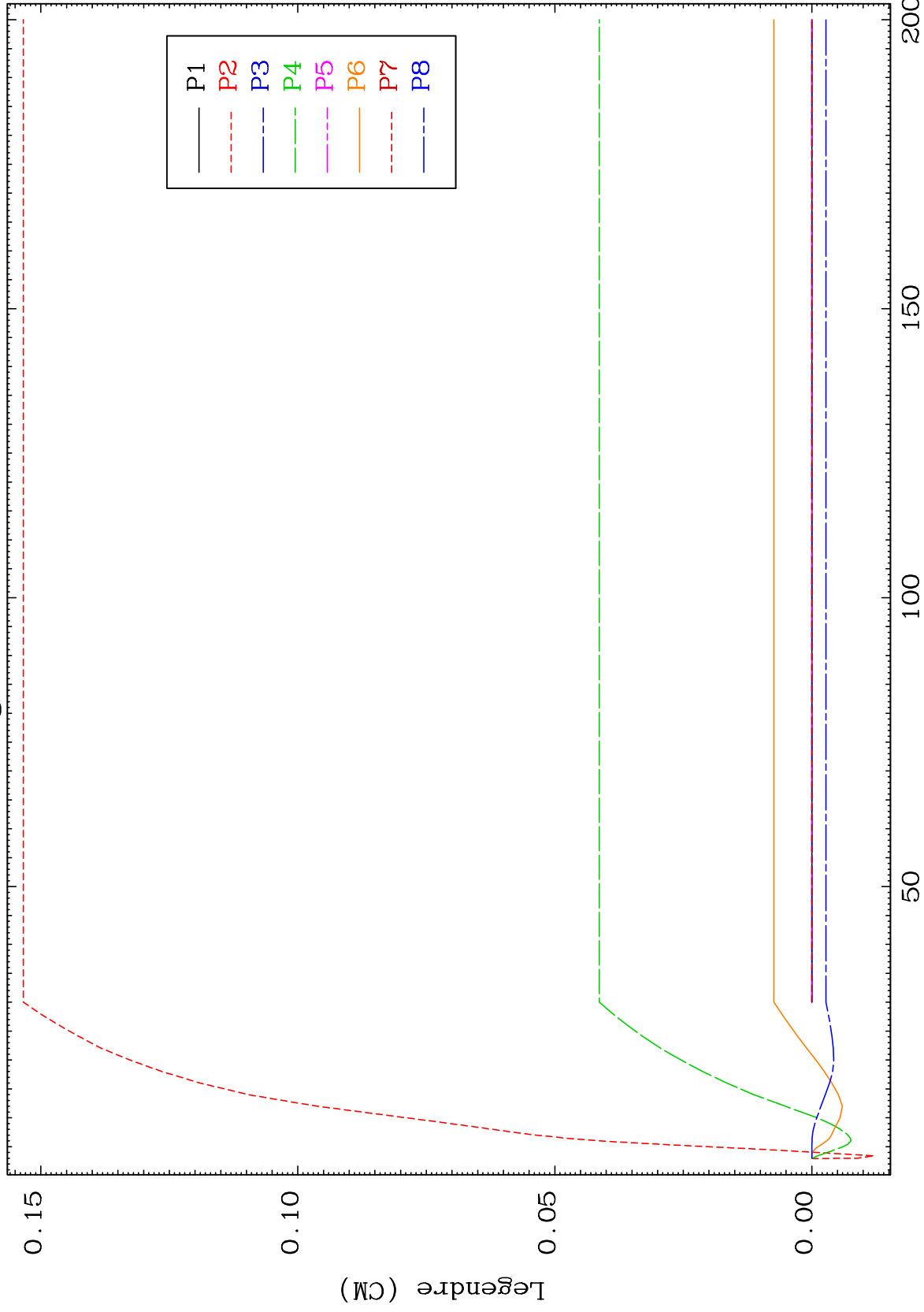


115 Incident Energy (MeV) 34-Se-78

MAT 3437

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

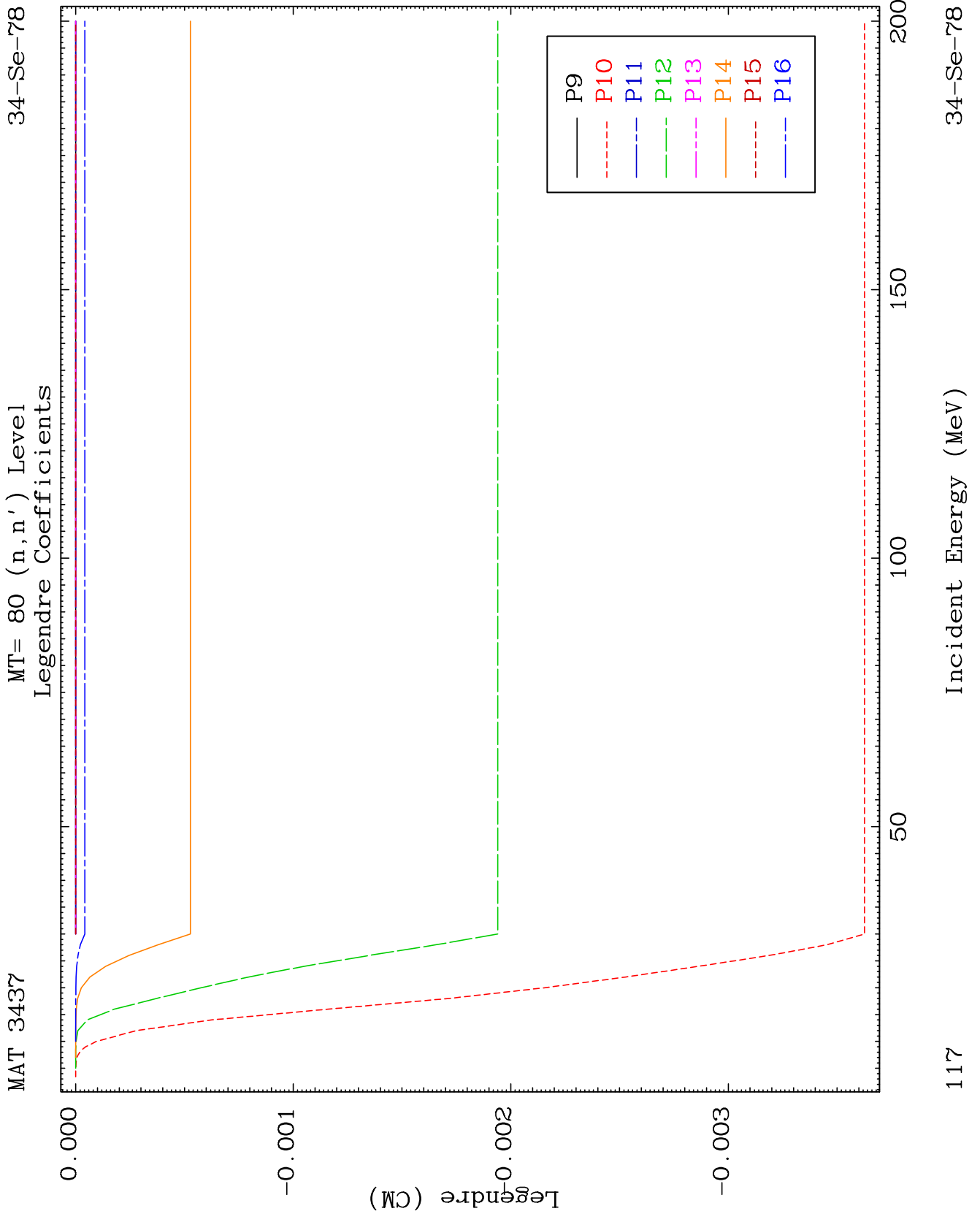
<sup>34</sup>Se-78

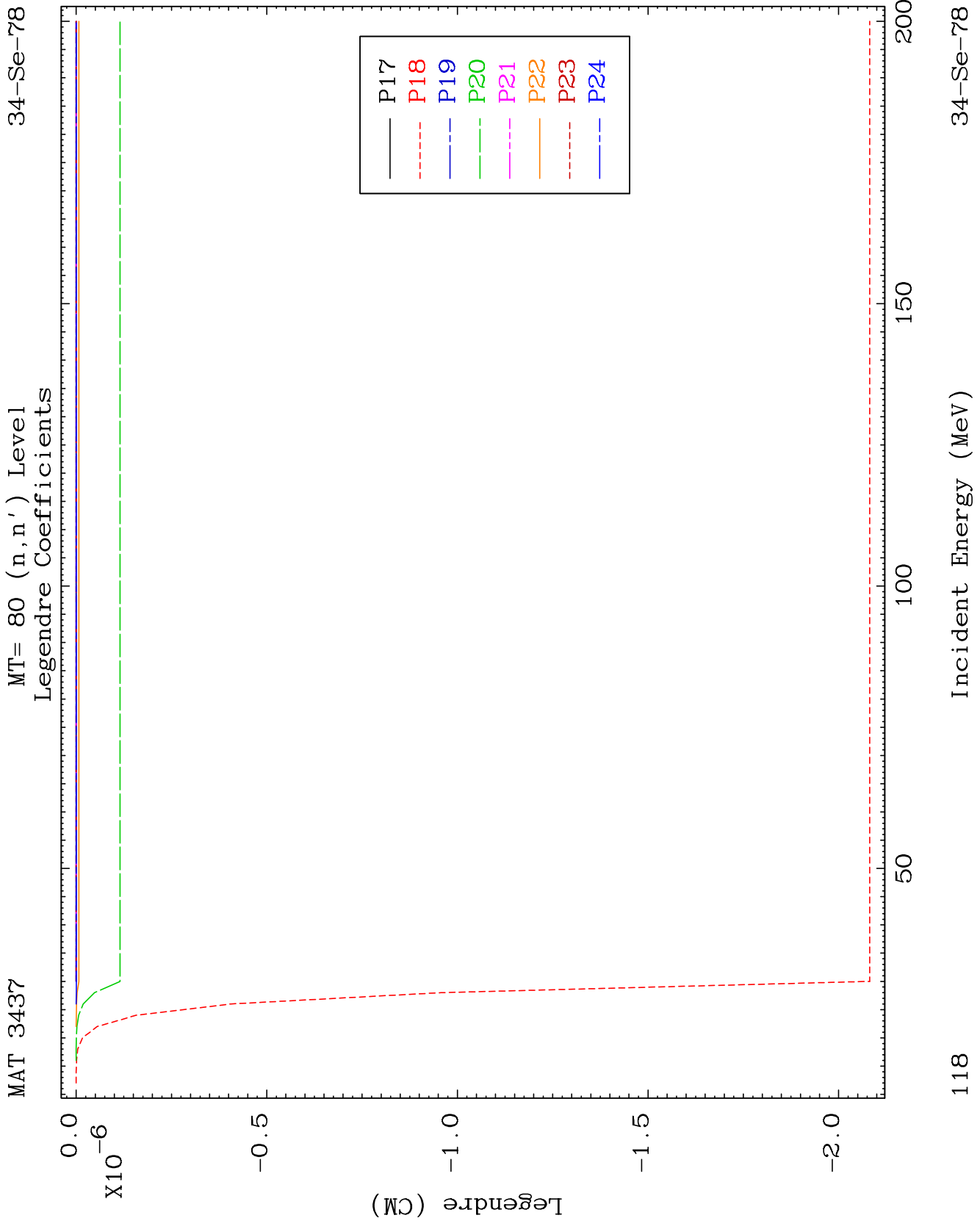


116

Incident Energy (MeV)

<sup>34</sup>Se-78

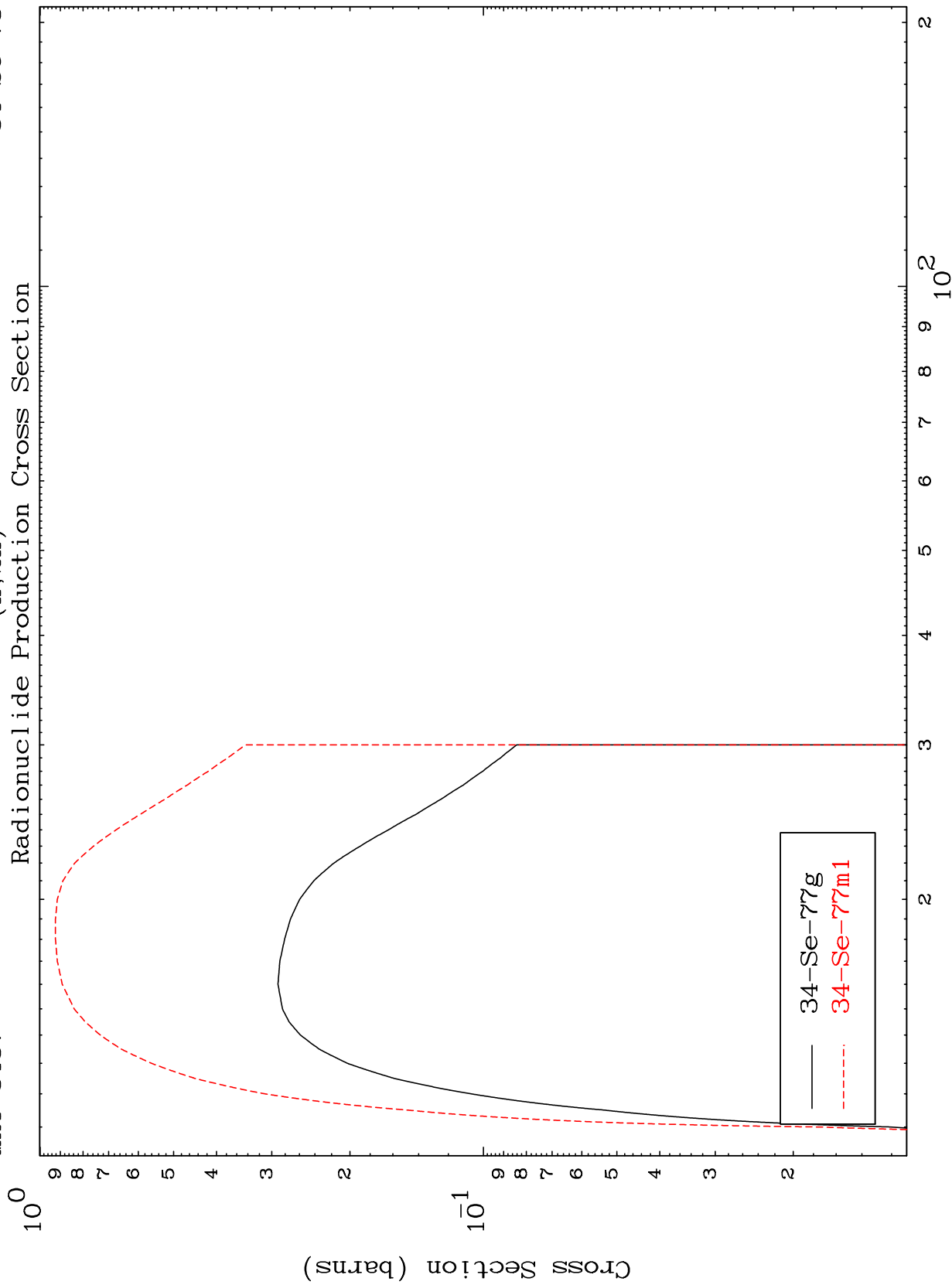




MAT 3437

<sup>34</sup>Se-78

Radionuclide Production Cross Section  
(n,2n)



119

Incident Energy (MeV)

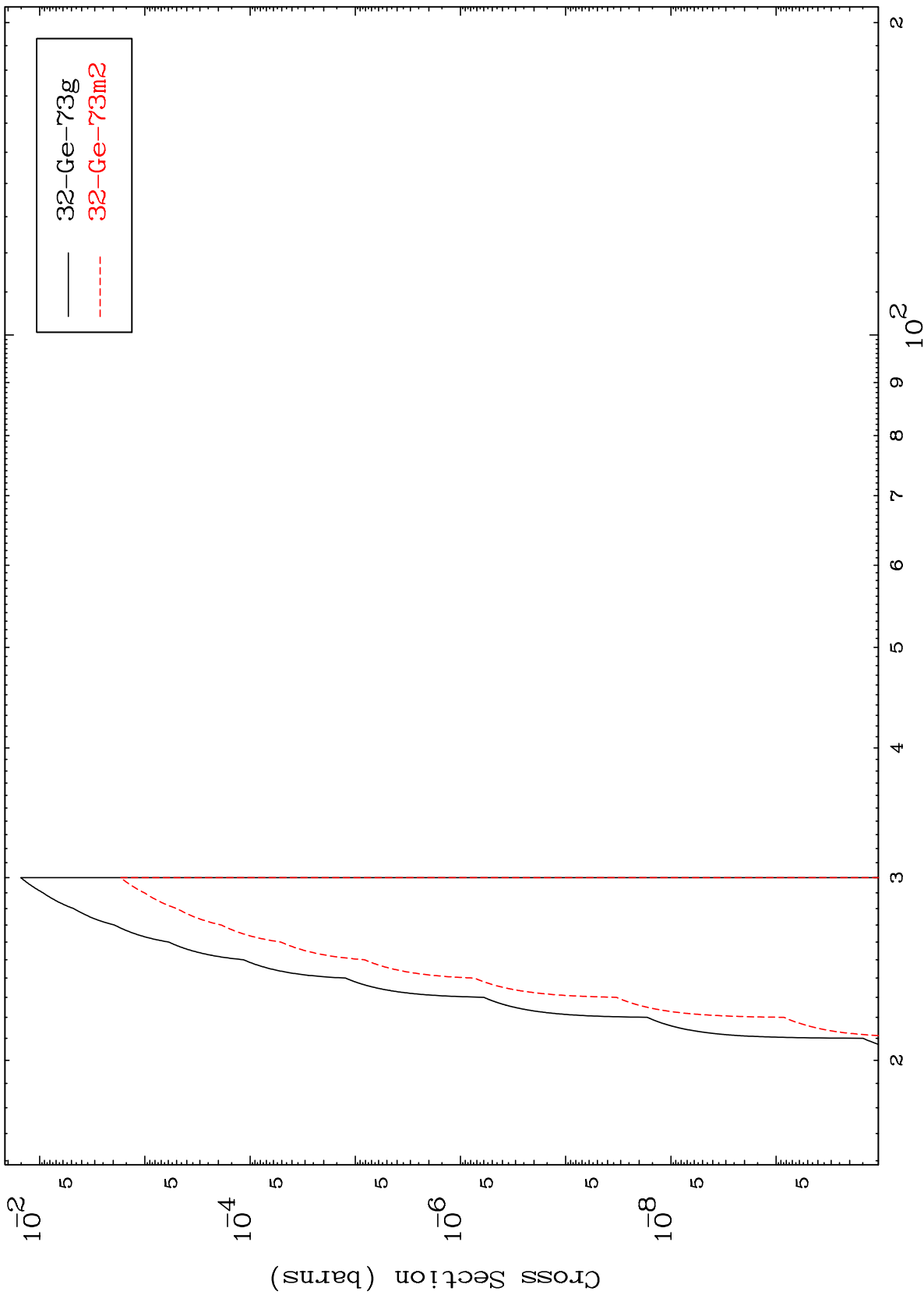
<sup>34</sup>Se-78

MAT 3437

$(n,2n) \alpha$

$^{34}\text{Se-78}$

Radionuclide Production Cross Section



120

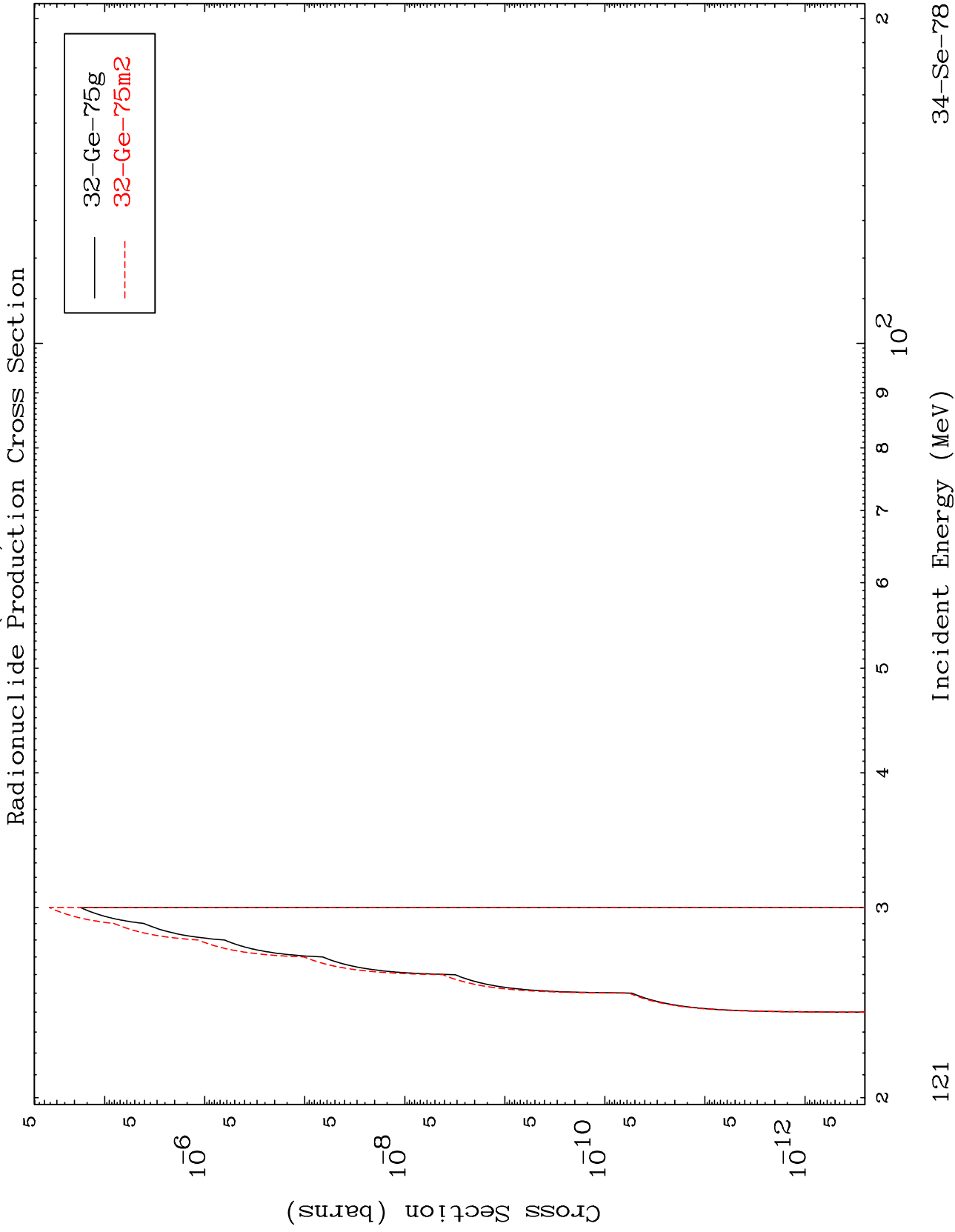
Incident Energy (MeV)

$^{34}\text{Se-78}$

MAT 3437

(n,n') He-3

34-<sup>Se-78</sup>



121

Incident Energy (MeV)

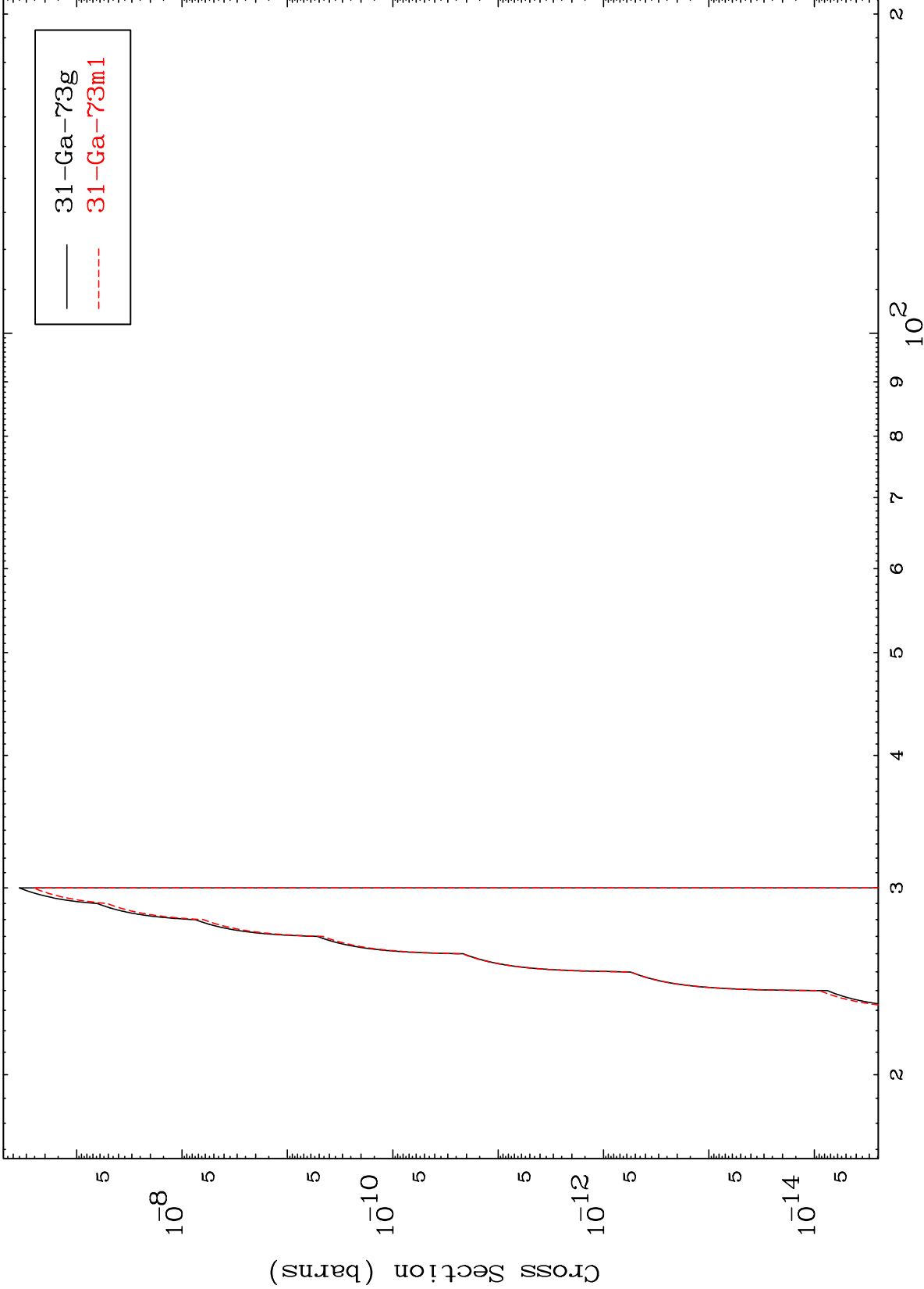
34-<sup>Se-78</sup>

MAT 3437

(n,n') p  $\alpha$

34-Se-78

Radionuclide Production Cross Section



122

Incident Energy (MeV)

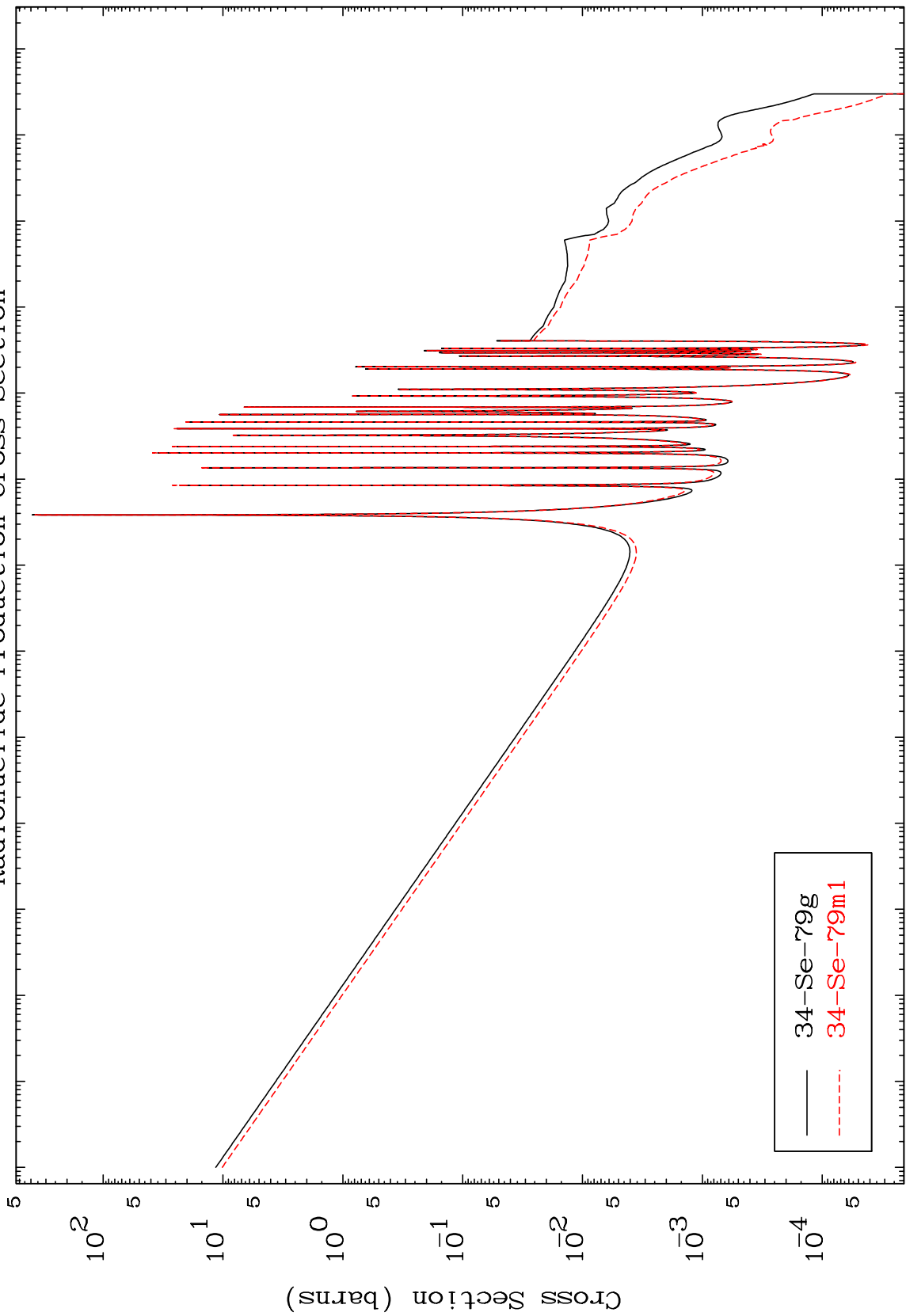
34-Se-78

MAT 3437

<sup>34</sup>Se-78

Radionuclide Production Cross Section

(n,γ)



— 34-Se-79g  
- - - 34-Se-79m1

<sup>34</sup>Se-78

Incident Energy (MeV)

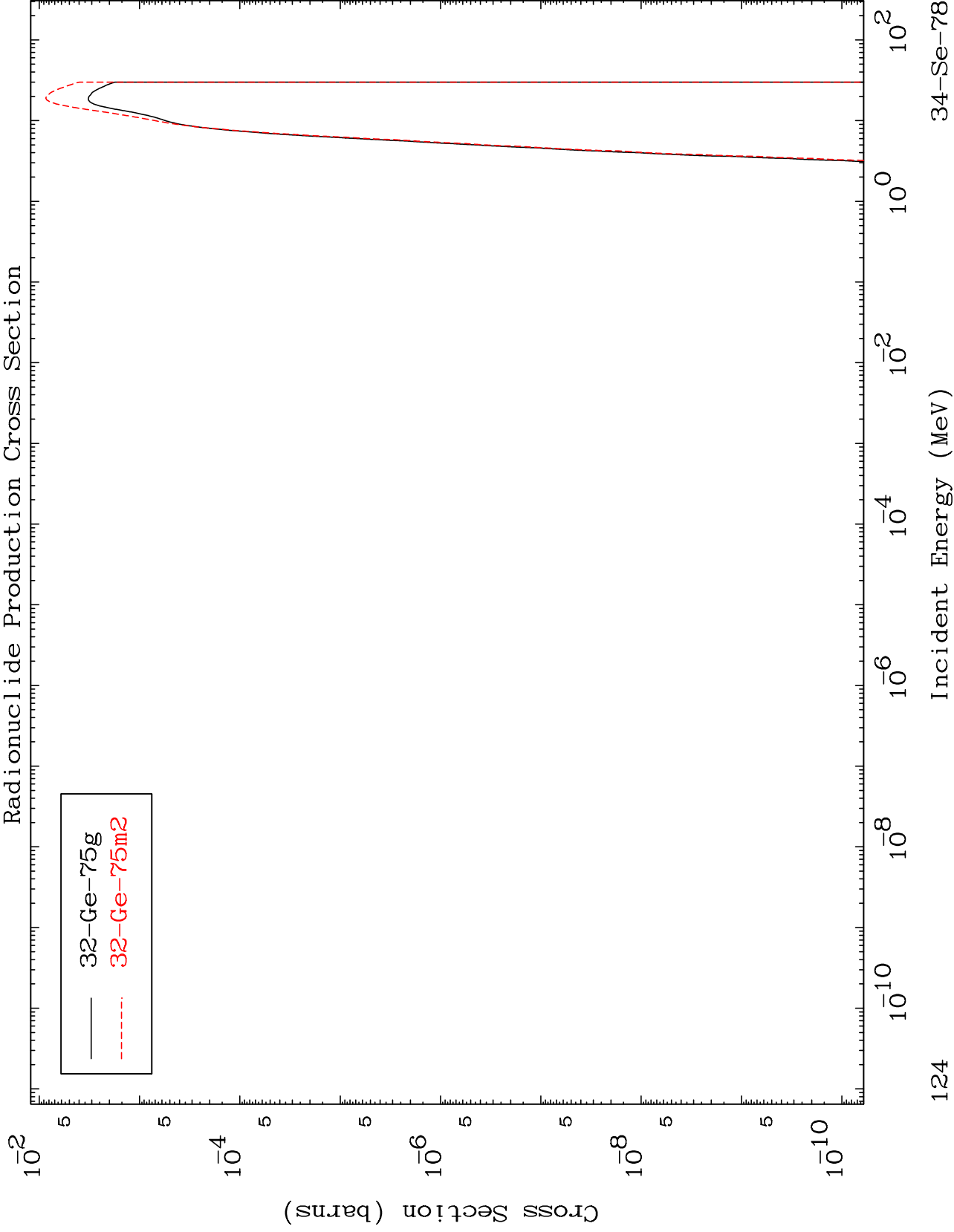
123

MAT 3437

(n,  $\alpha$ )

<sup>34</sup>Se-78

Radionuclide Production Cross Section

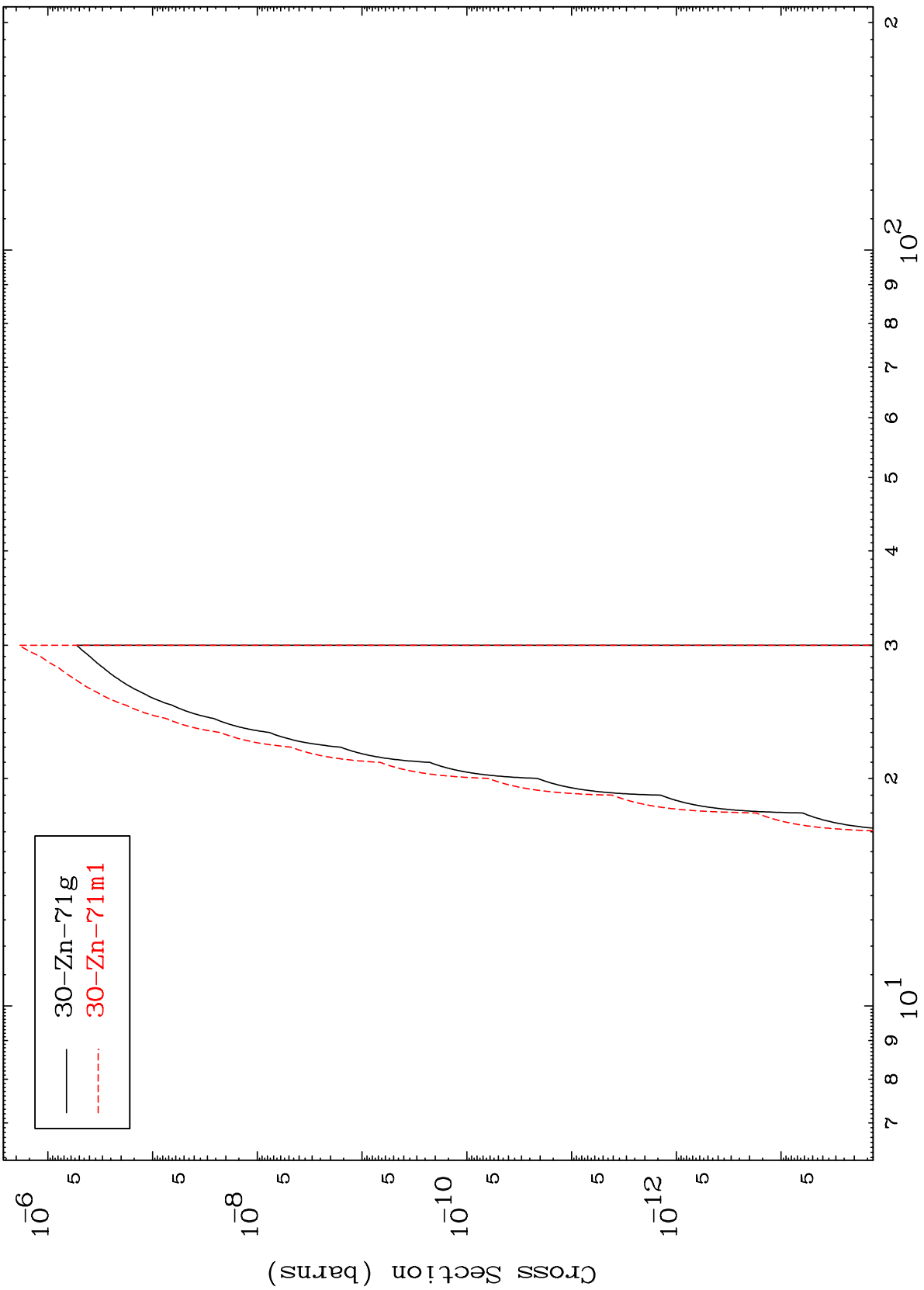


— 32-Ge-75g  
- - - 32-Ge-75m2

MAT 3437

<sup>34</sup>Se-78

Radionuclide Production Cross Section  
(n,2α)



— 30-Zn-71g  
- - - 30-Zn-71m1

<sup>34</sup>Se-78

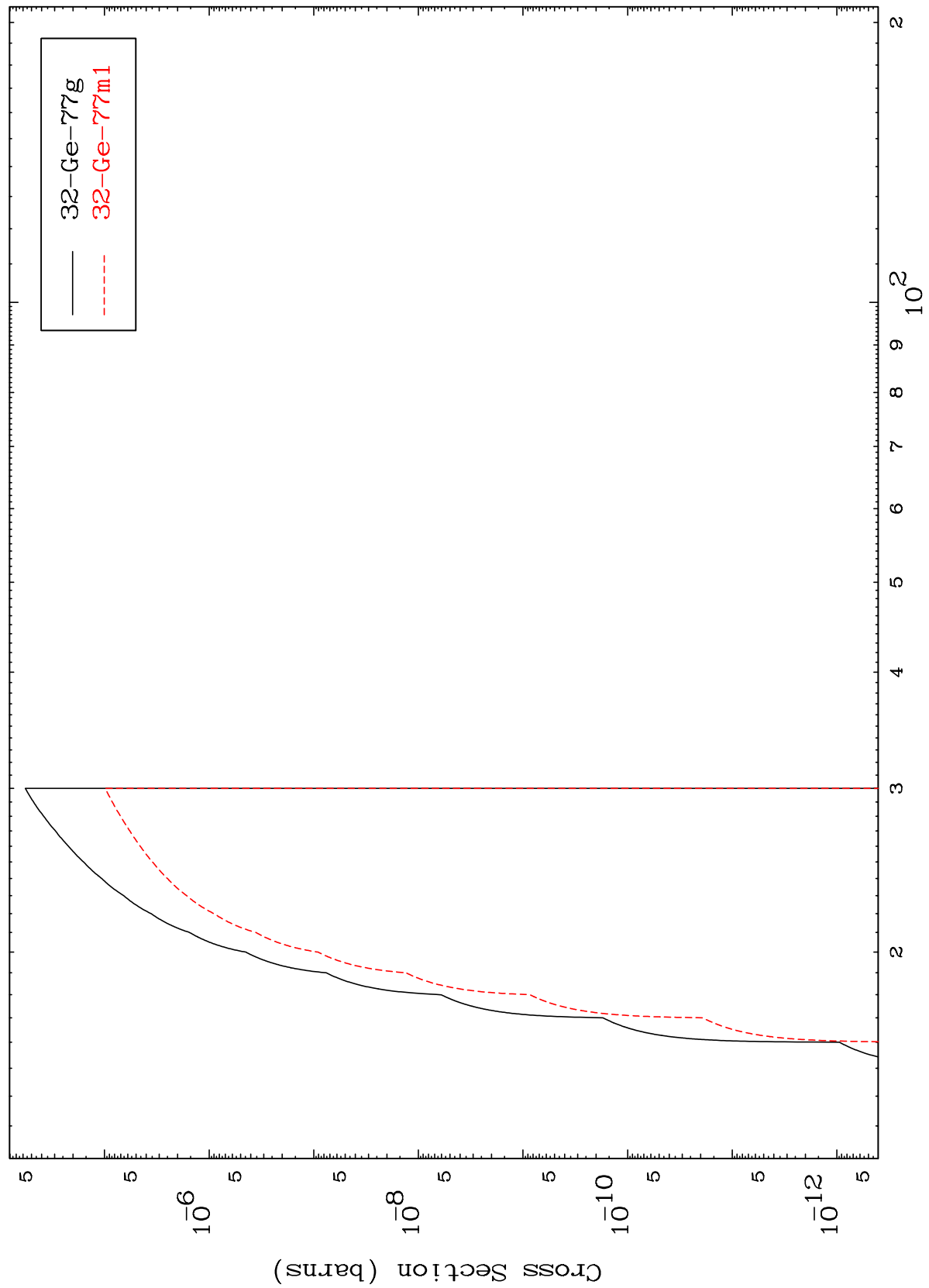
Incident Energy (MeV)

125

MAT 3437

34-<sup>Se</sup>-78

(n,2p)  
Radionuclide Production Cross Section



126

Incident Energy (MeV)

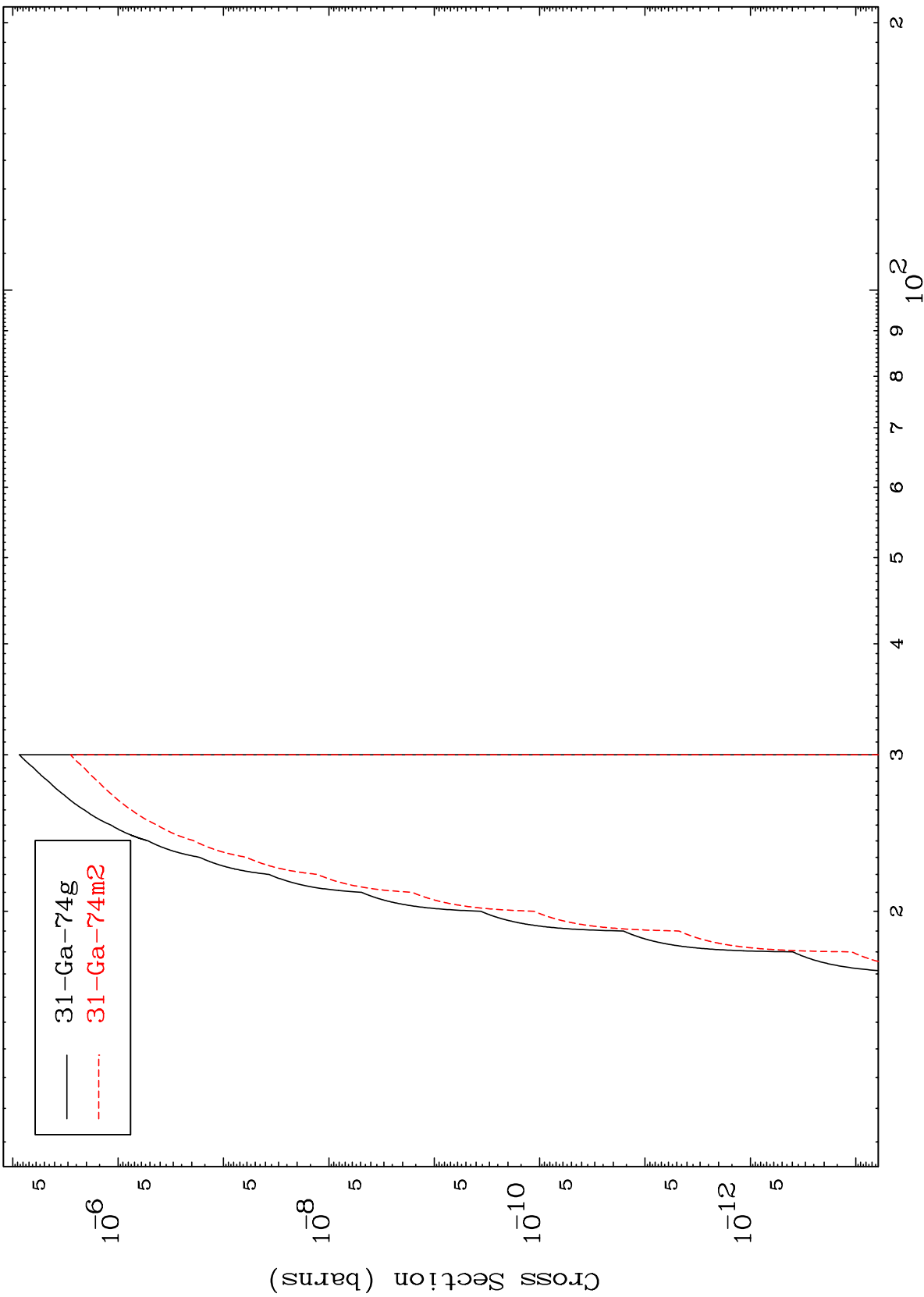
34-<sup>Se</sup>-78

MAT 3437

(n,p)  $\alpha$

<sup>34</sup>Se-78

Radionuclide Production Cross Section



127

Incident Energy (MeV)

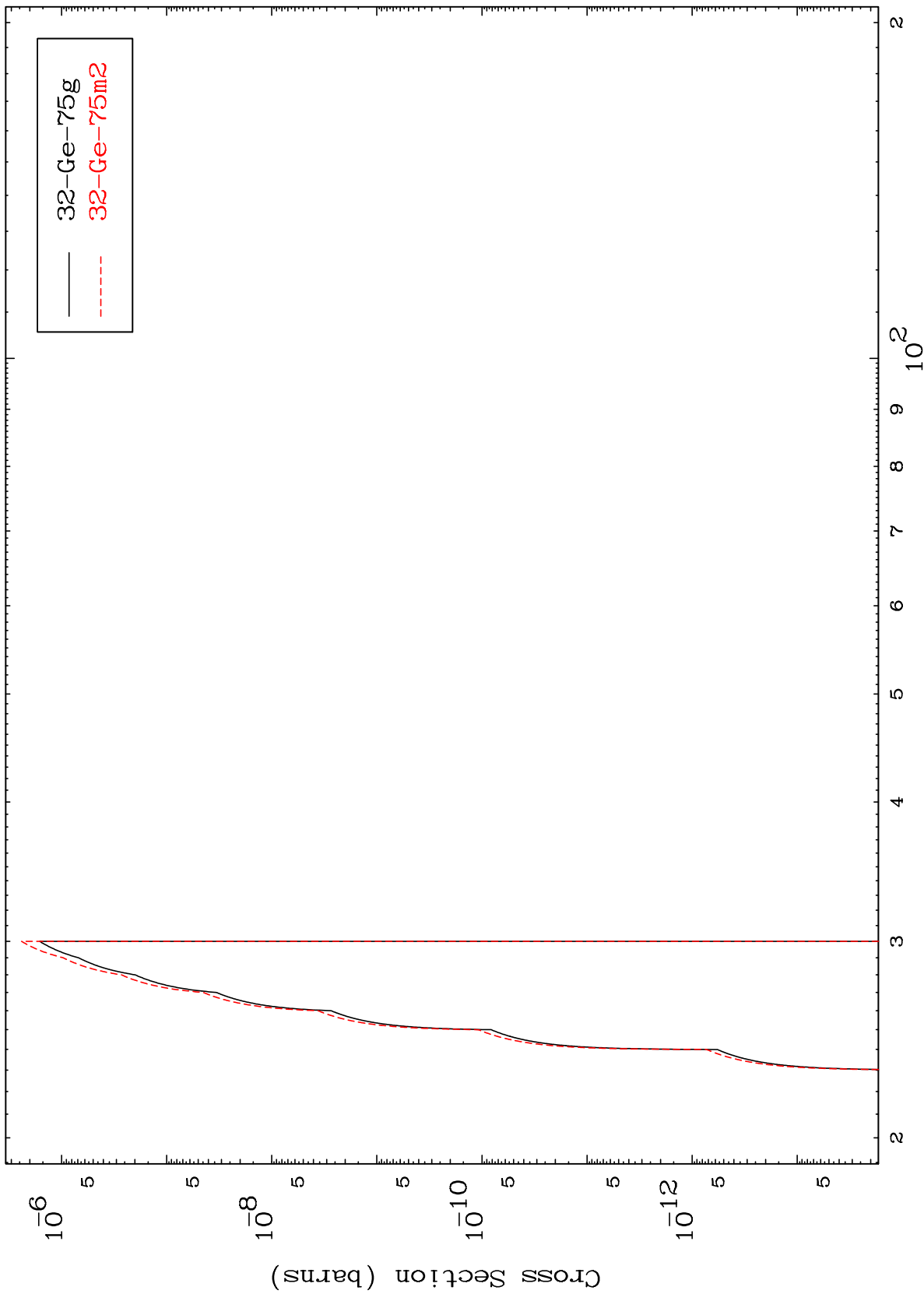
<sup>34</sup>Se-78

MAT 3437

(n,p) t

34-<sup>Se</sup>-78

Radionuclide Production Cross Section



128

Incident Energy (MeV)

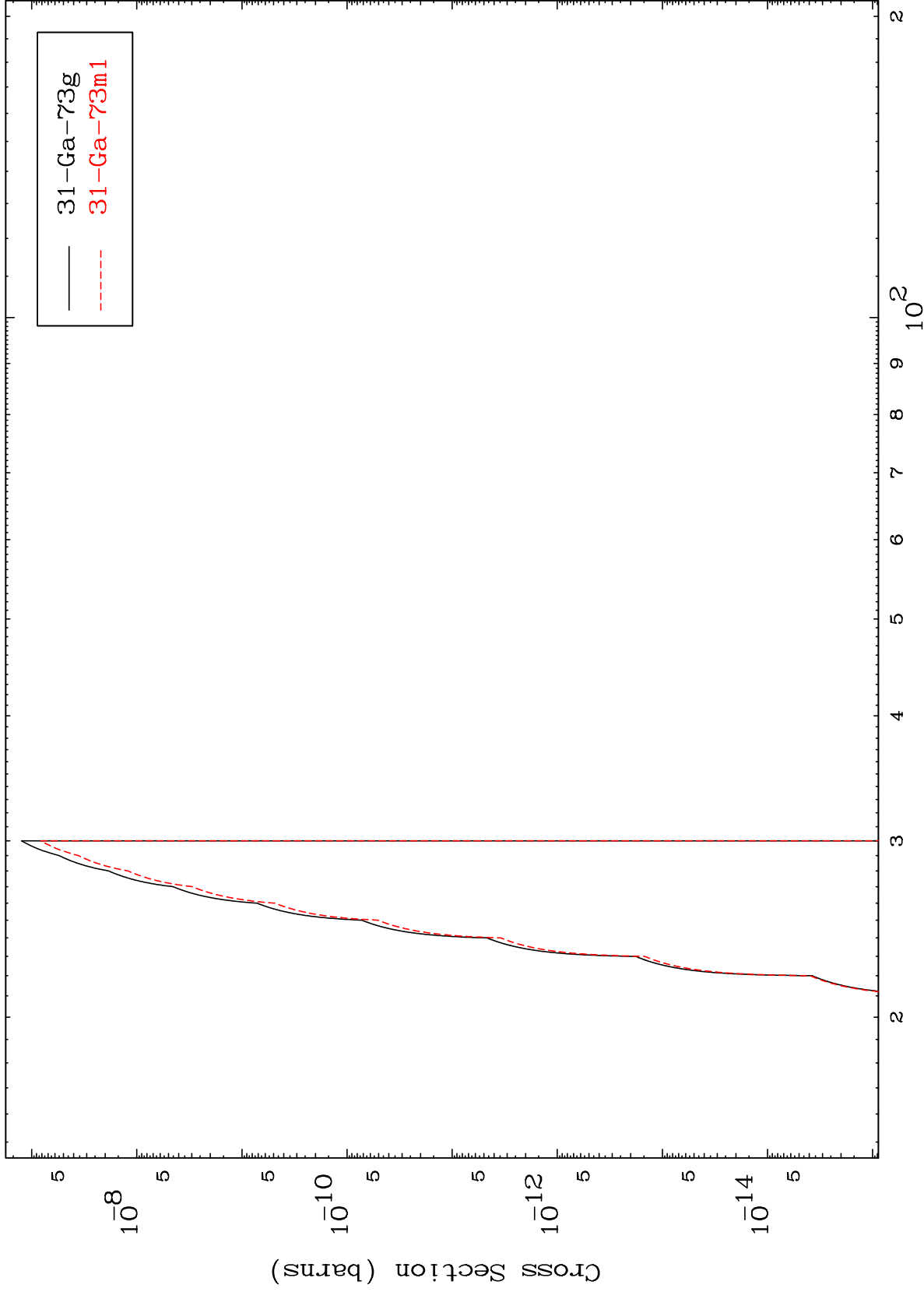
34-<sup>Se</sup>-78

MAT 3437

(n,d)  $\alpha$

<sup>34</sup>Se-78

Radionuclide Production Cross Section



129

Incident Energy (MeV)

<sup>34</sup>Se-78