

Program EVALPLOT  
(Version 2015-2)

by

Dermott E. Cullen  
(Present Contact Information)

Dermott E. Cullen  
1466 Hudson Way  
Livermore, CA 94550  
U.S.A.

Tele: 925-443-1911

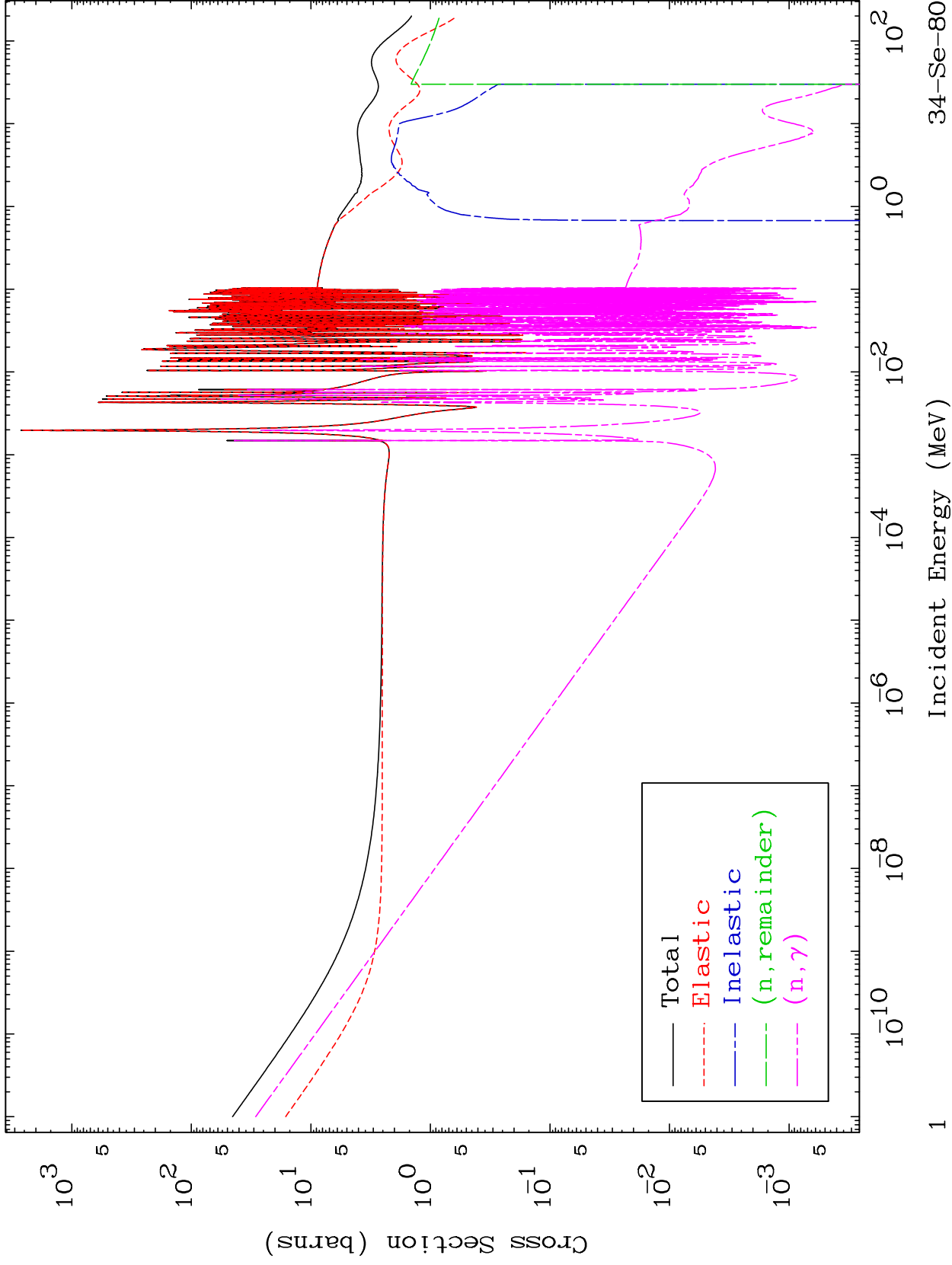
E.Mail:redcullen1@comcast.net  
Web:home.comcast.net/~redcullen1

Press Mouse Button to Start

MAT 3443

Major  
293 Kelvin Cross Sections

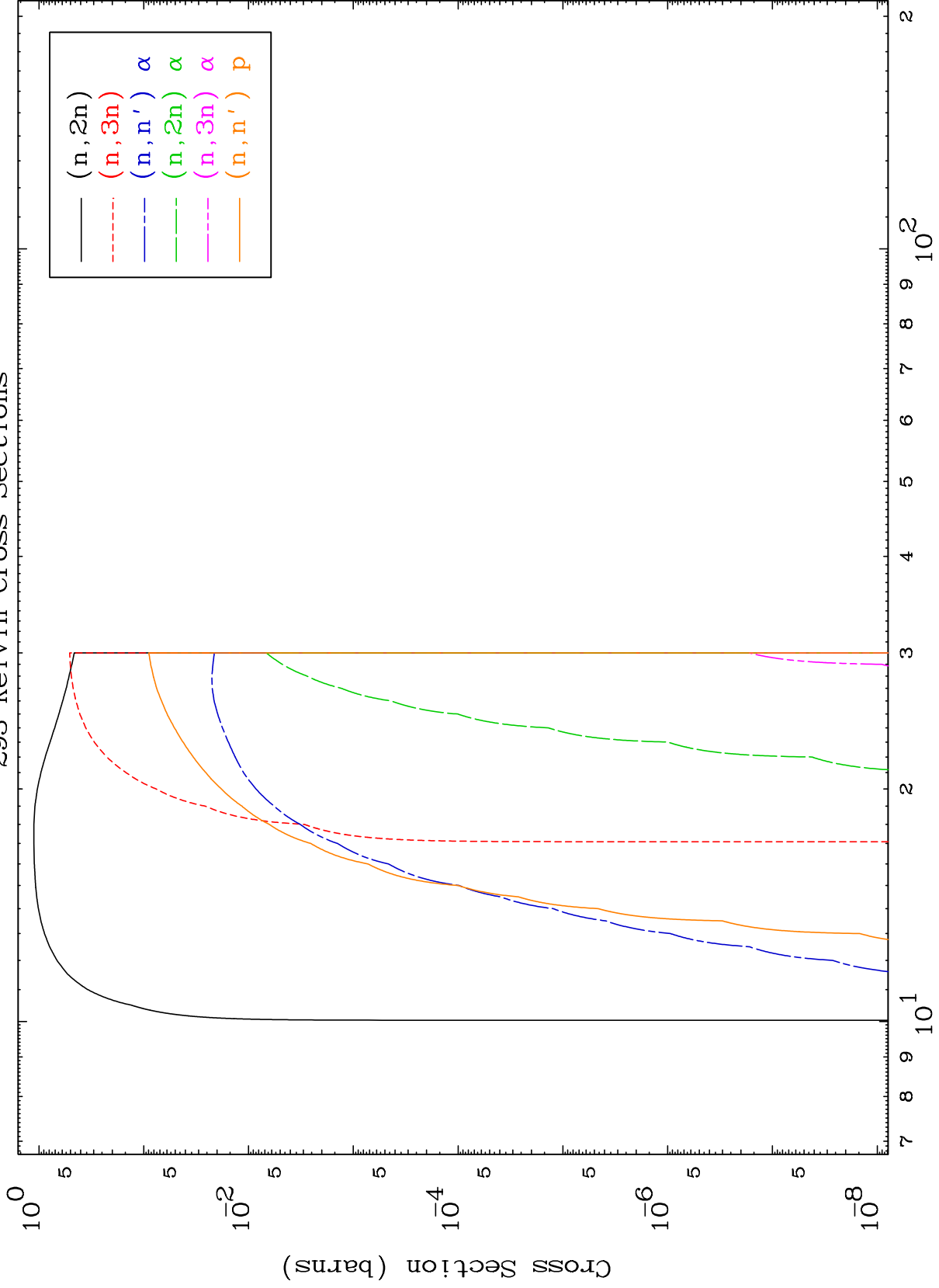
<sup>34</sup>Se-80



MAT 3443

Neutron Production  
293 Kelvin Cross Sections

34-Se-80



2

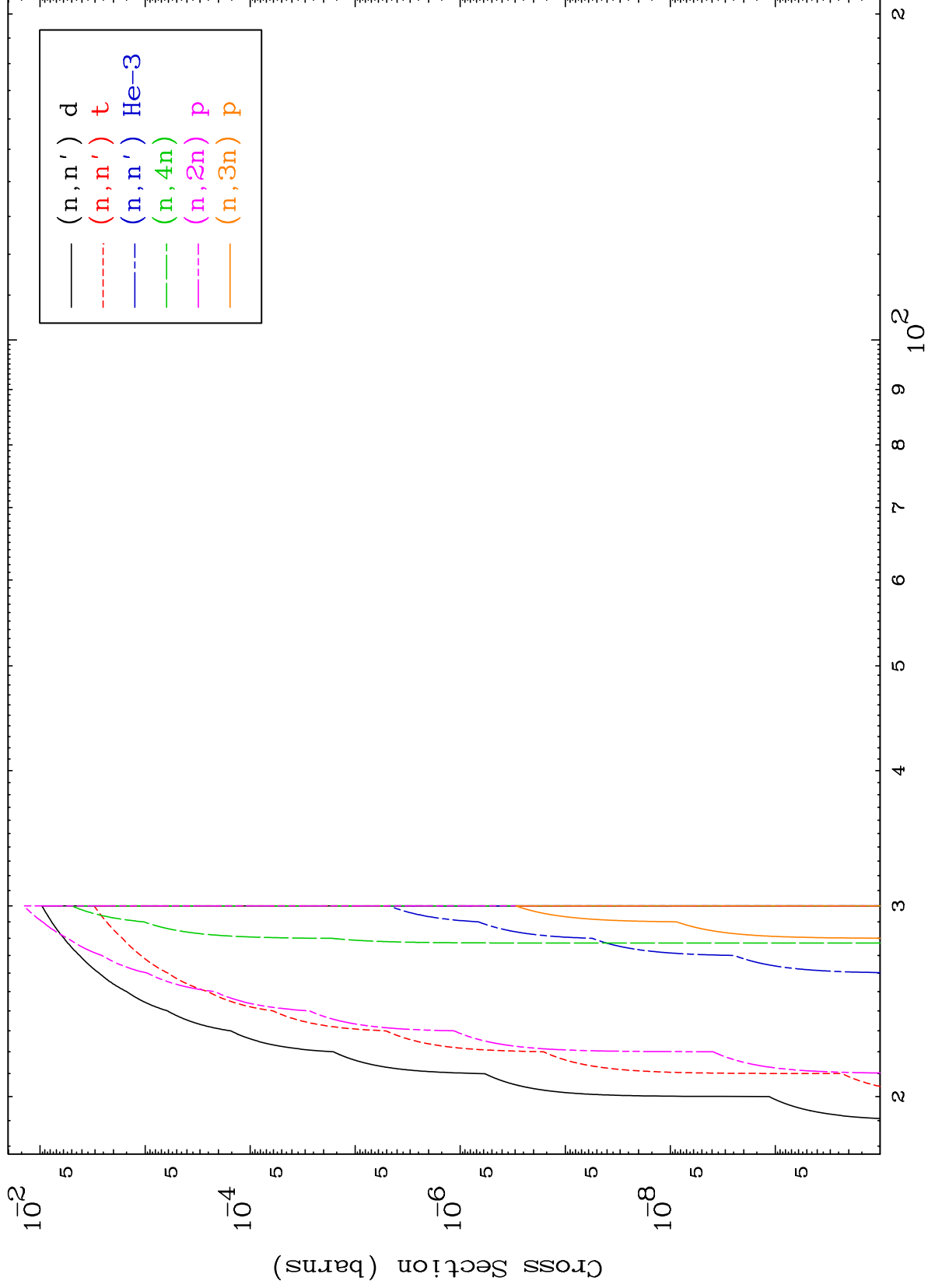
Incident Energy (MeV)

34-Se-80

MAT 3443

Neutron Production  
293 Kelvin Cross Sections

34-Se-80



3

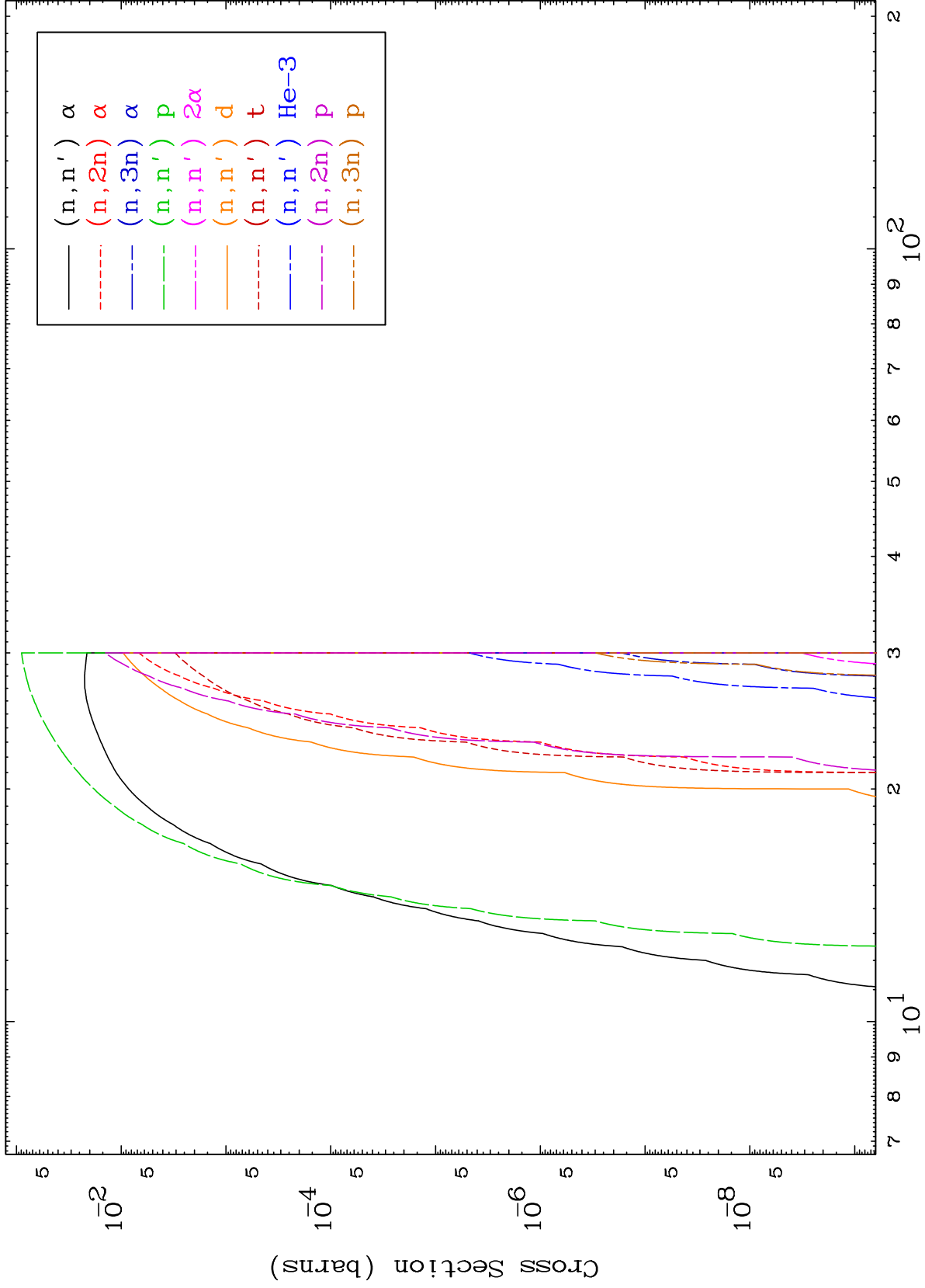
Incident Energy (MeV)

34-Se-80

MAT 3443

Charged Particle  
293 Kelvin Cross Sections

34-Se-80



4

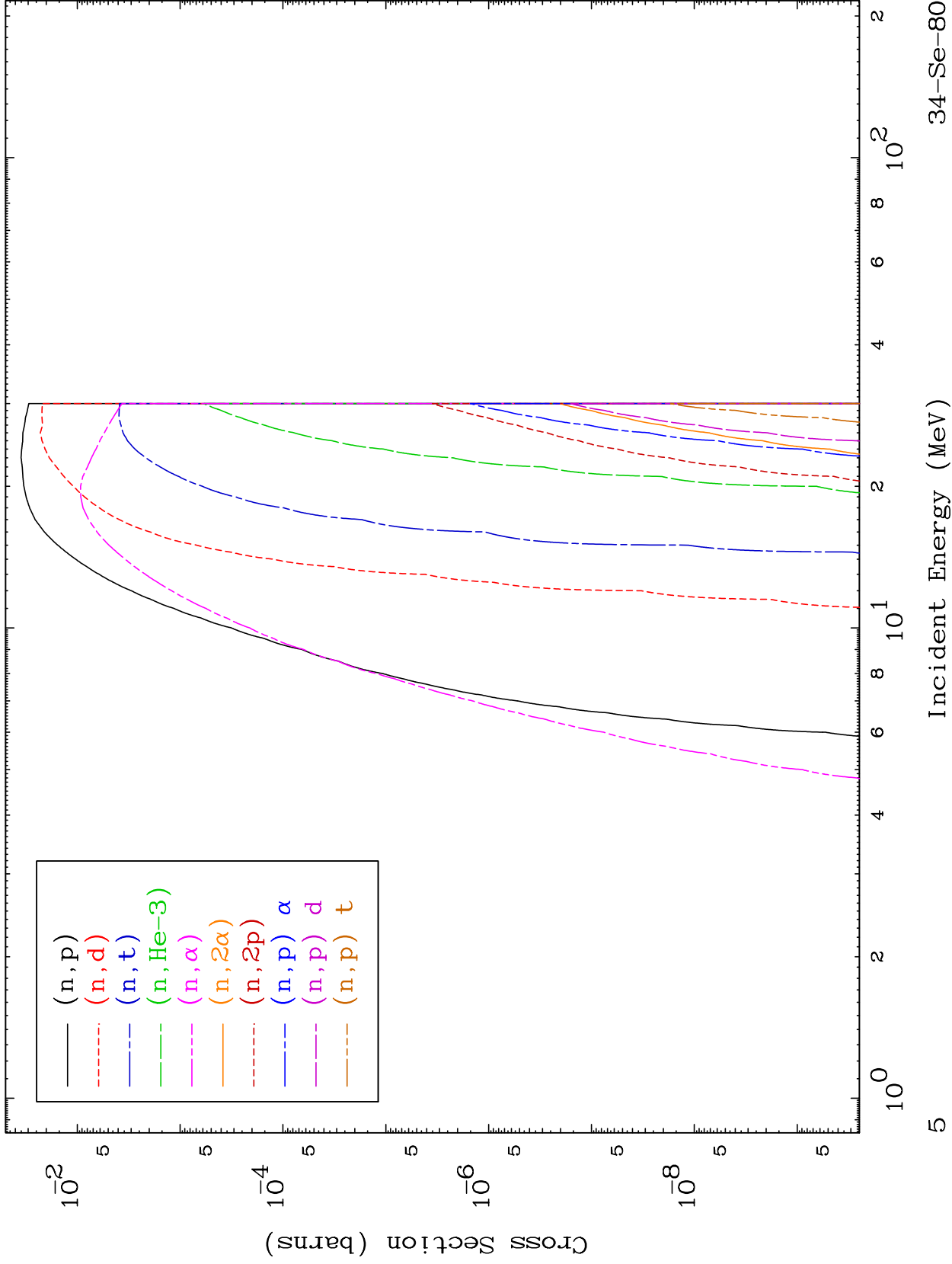
Incident Energy (MeV)

34-Se-80

MAT 3443

Charged Particle  
293 Kelvin Cross Sections

<sup>34</sup>Se-80

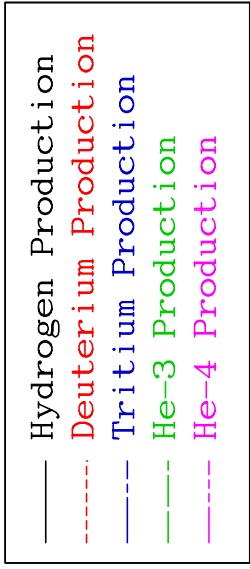
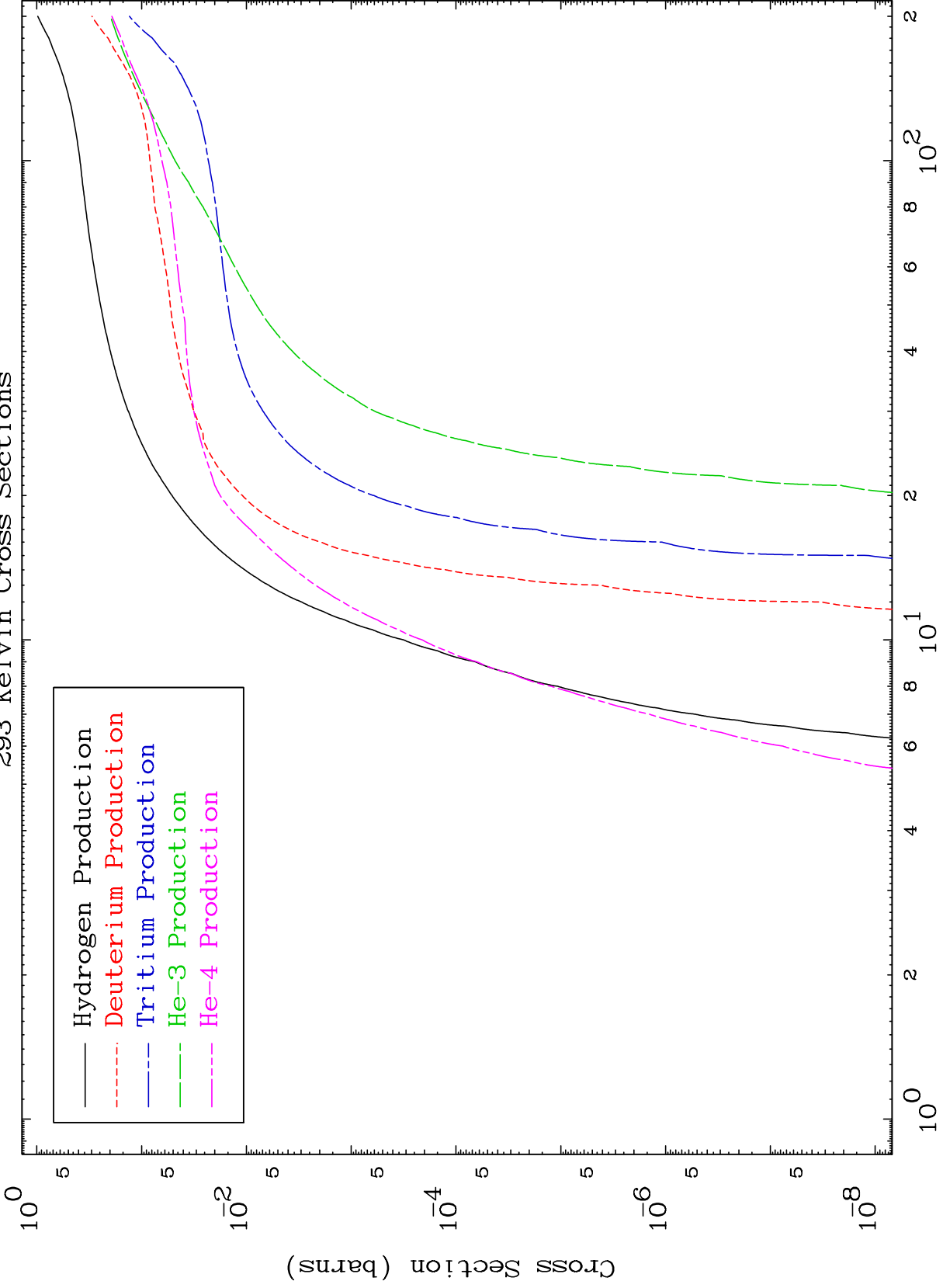


<sup>34</sup>Se-80

MAT 3443

Particle Production  
293 Kelvin Cross Sections

<sup>34</sup>Se-80



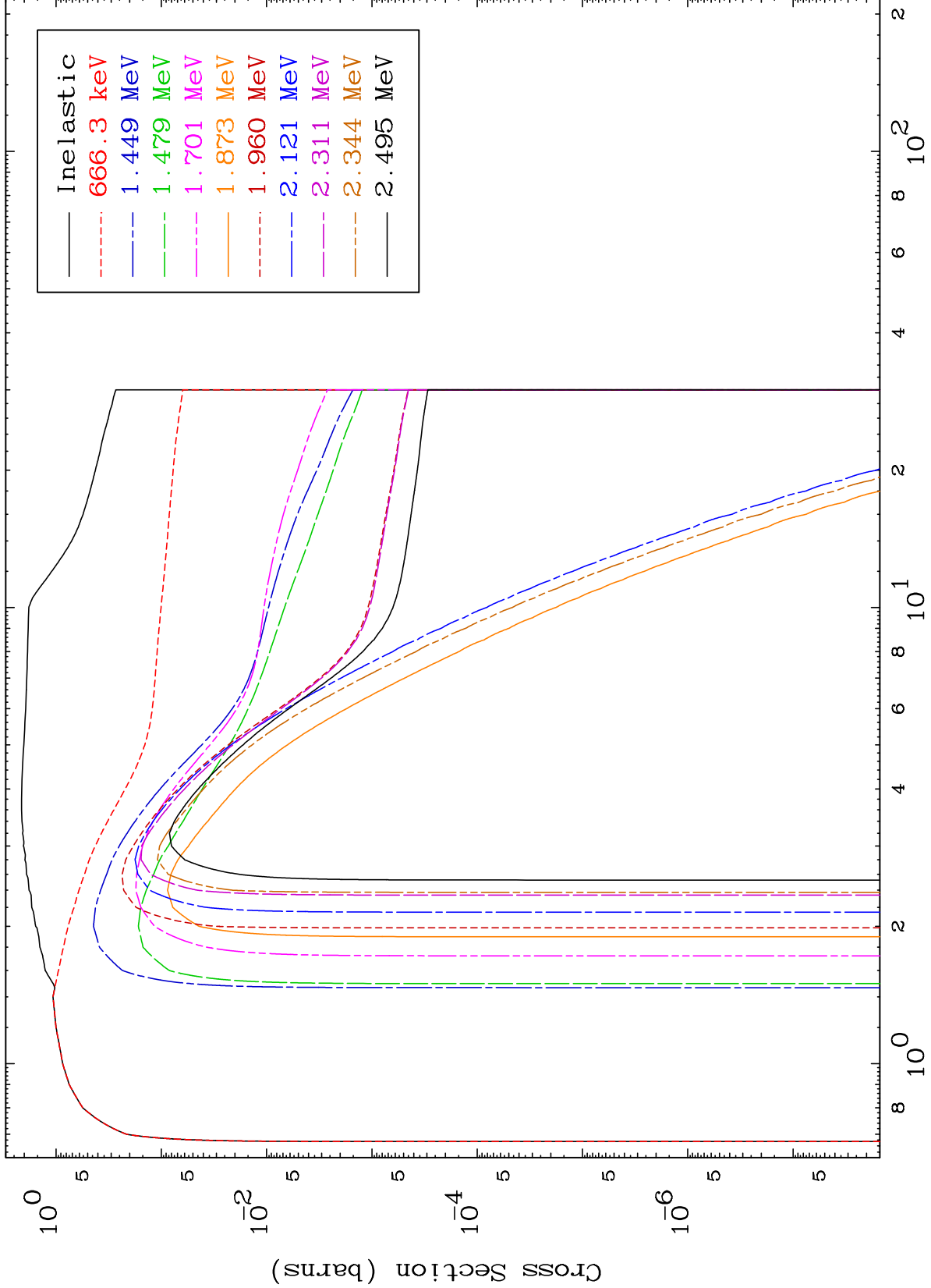
Incident Energy (MeV)

<sup>34</sup>Se-80

MAT 3443

(n,n') Level  
293 Kelvin Cross Sections

34-Se-80

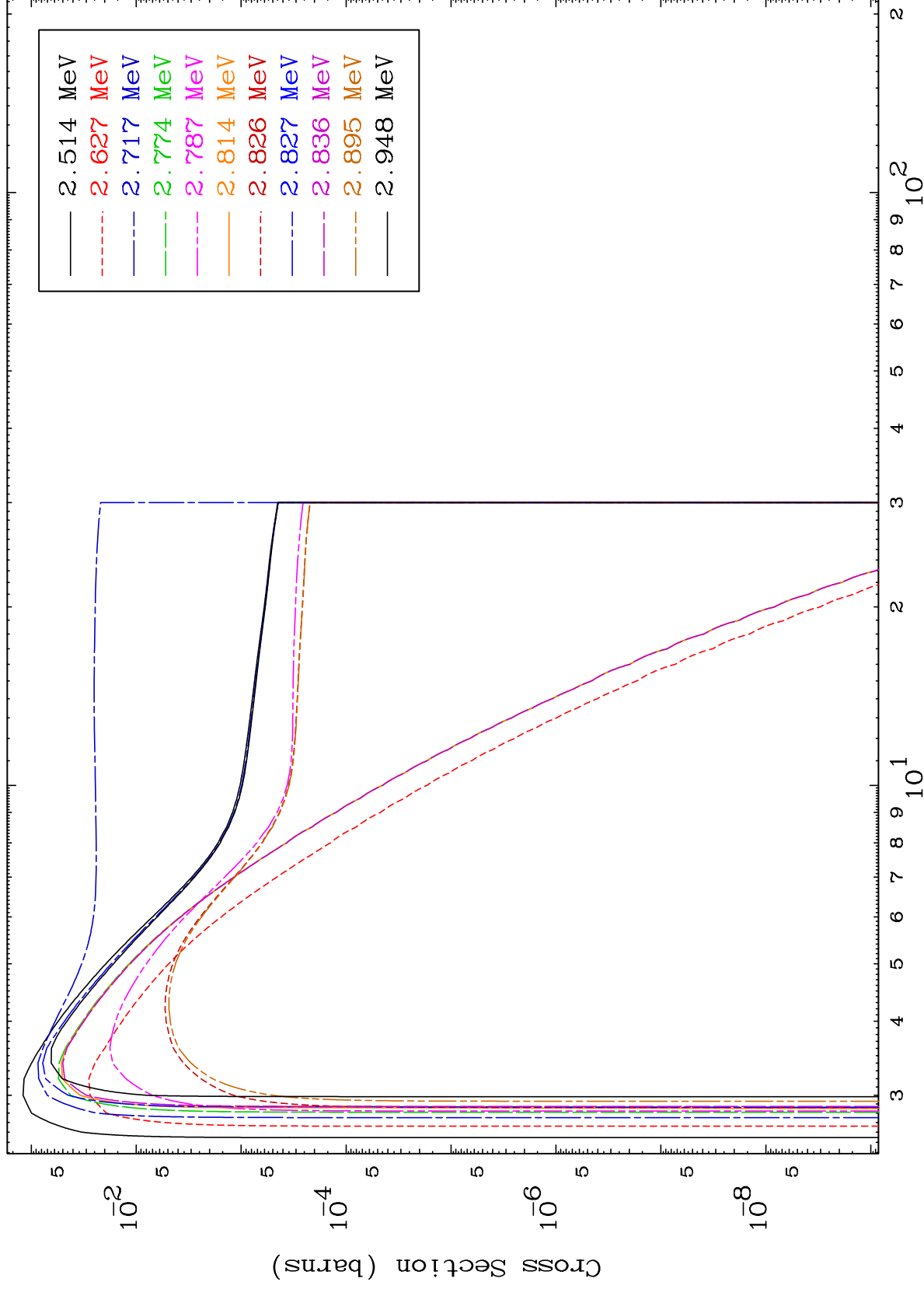




MAT 3443

(n,n') Level  
293 Kelvin Cross Sections

34-Se-80



8

Incident Energy (MeV)

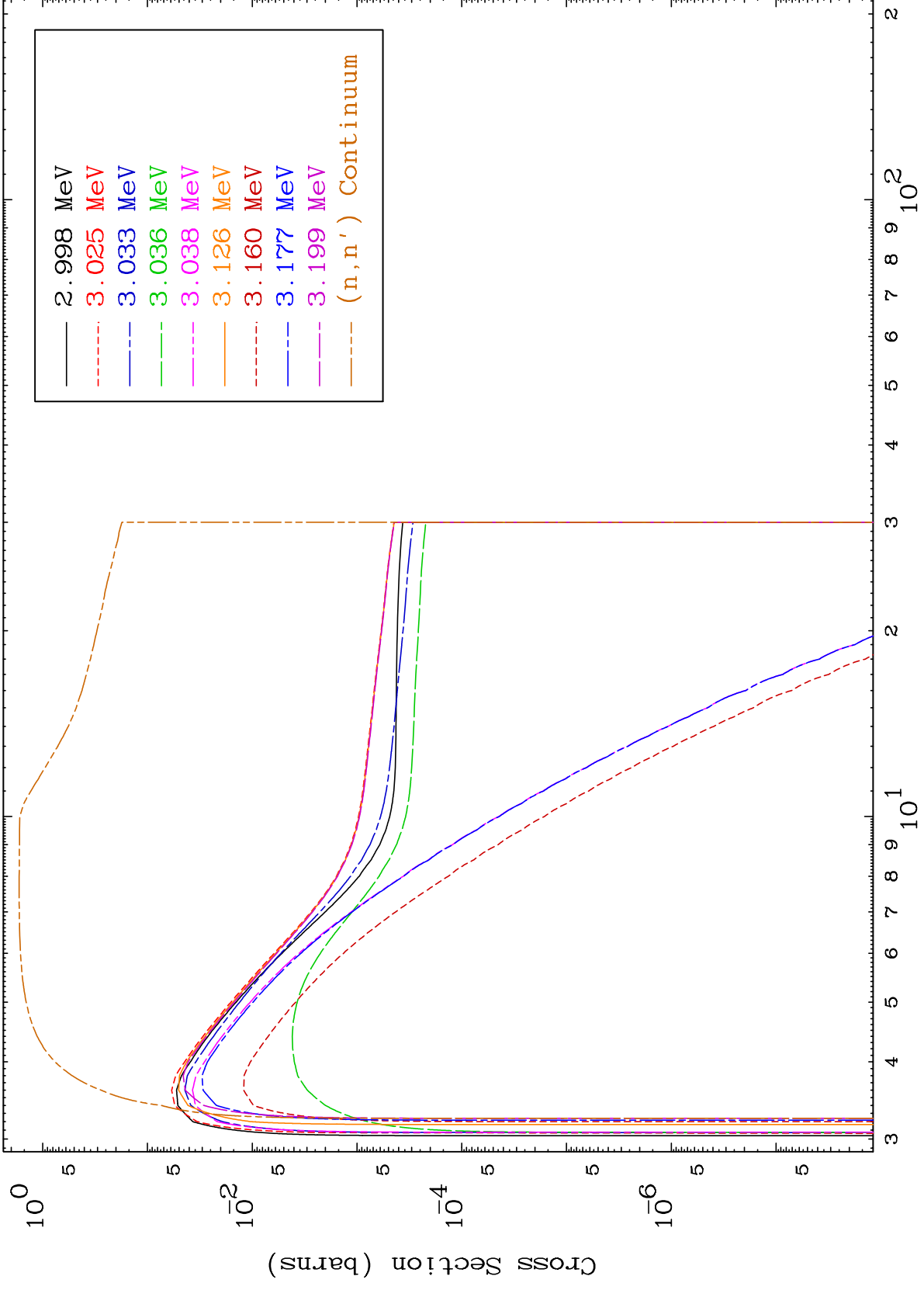
34-Se-80

MAT 3443

(n,n') Level

34-Se-80

293 Kelvin Cross Sections



9

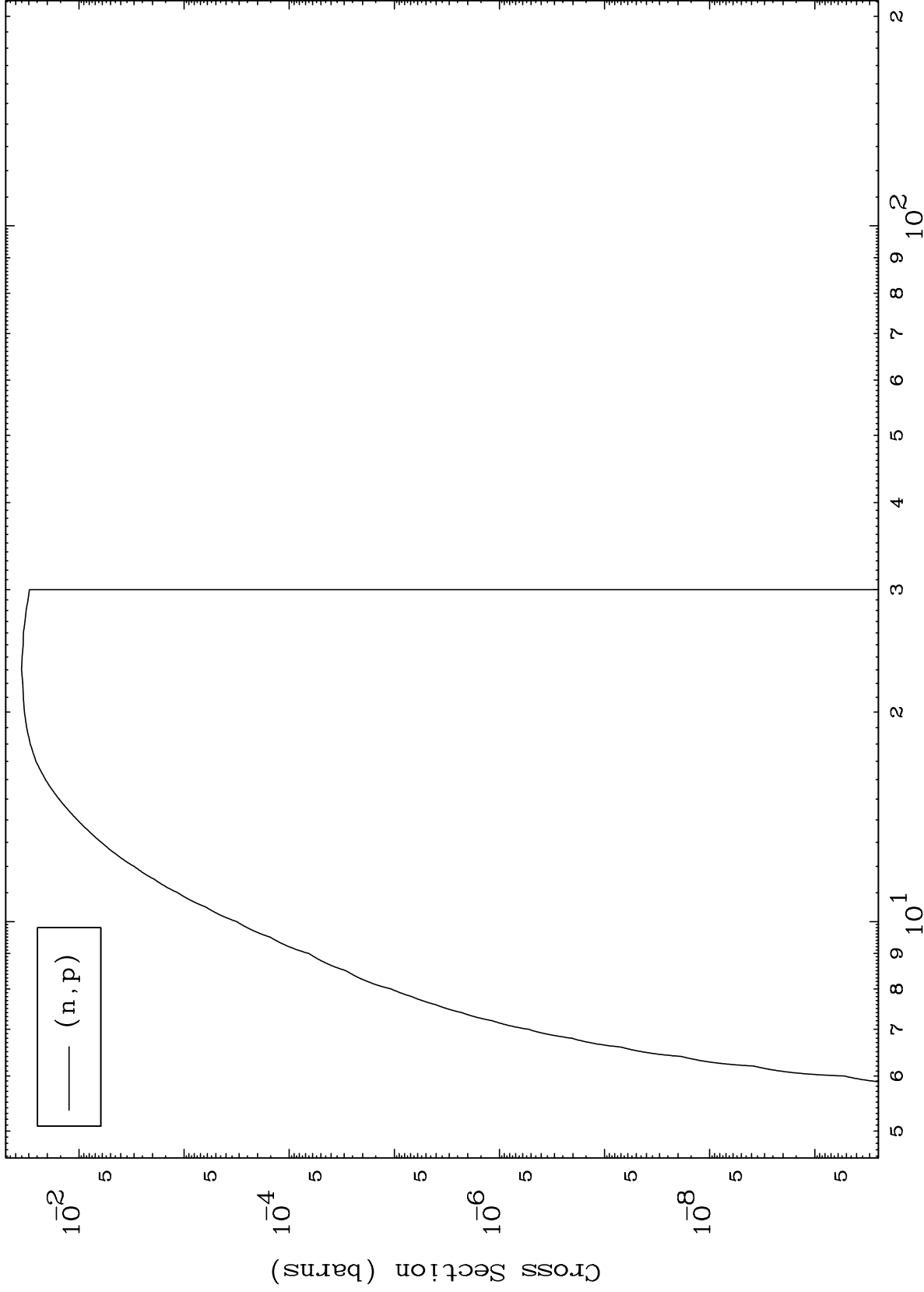
Incident Energy (MeV)

34-Se-80

MAT 3443

(n,p) Levels  
293 Kelvin Cross Sections

<sup>34</sup>Se-80



10

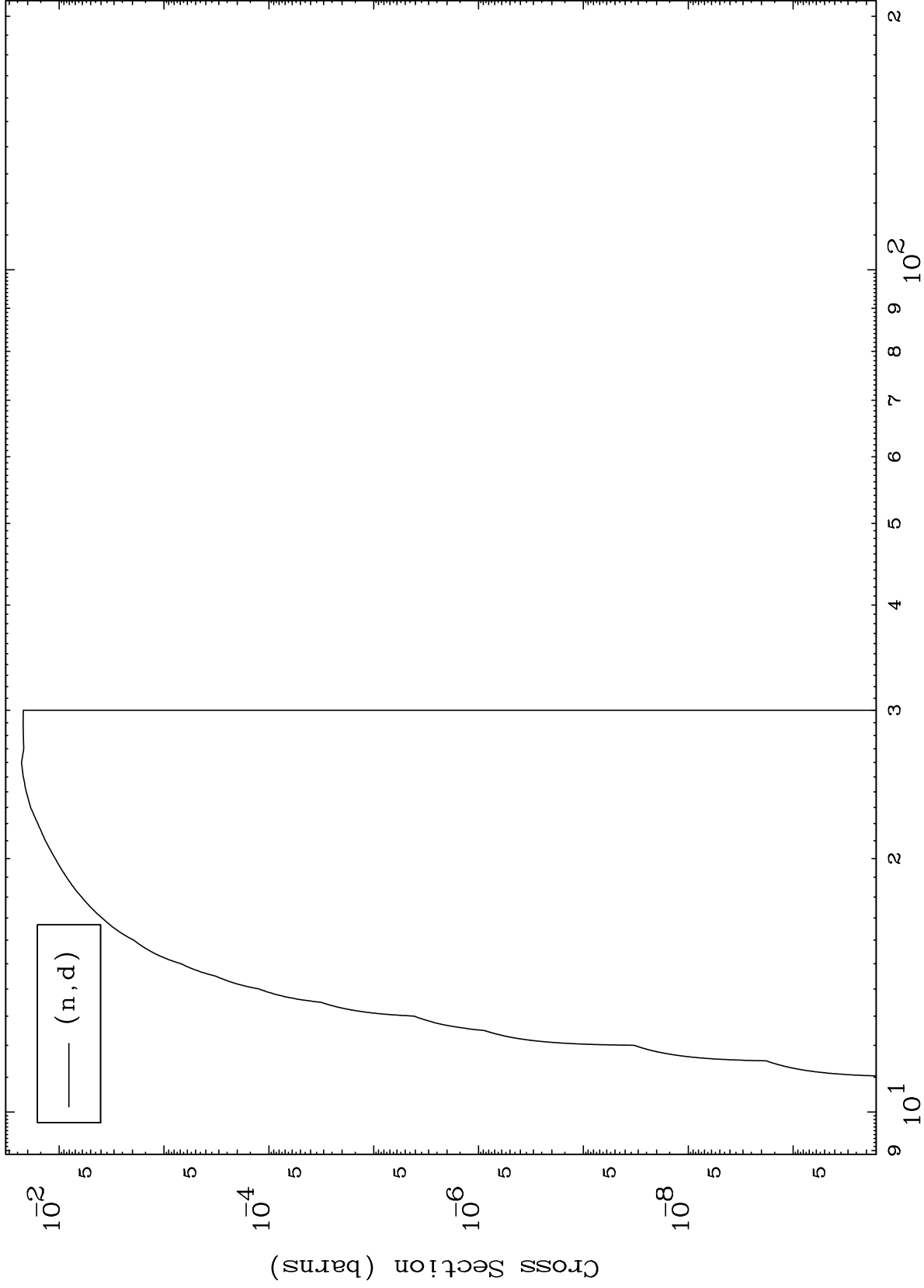
Incident Energy (MeV)

<sup>34</sup>Se-80

MAT 3443

(n,d) Levels  
293 Kelvin Cross Sections

<sup>34</sup>Se-80



11

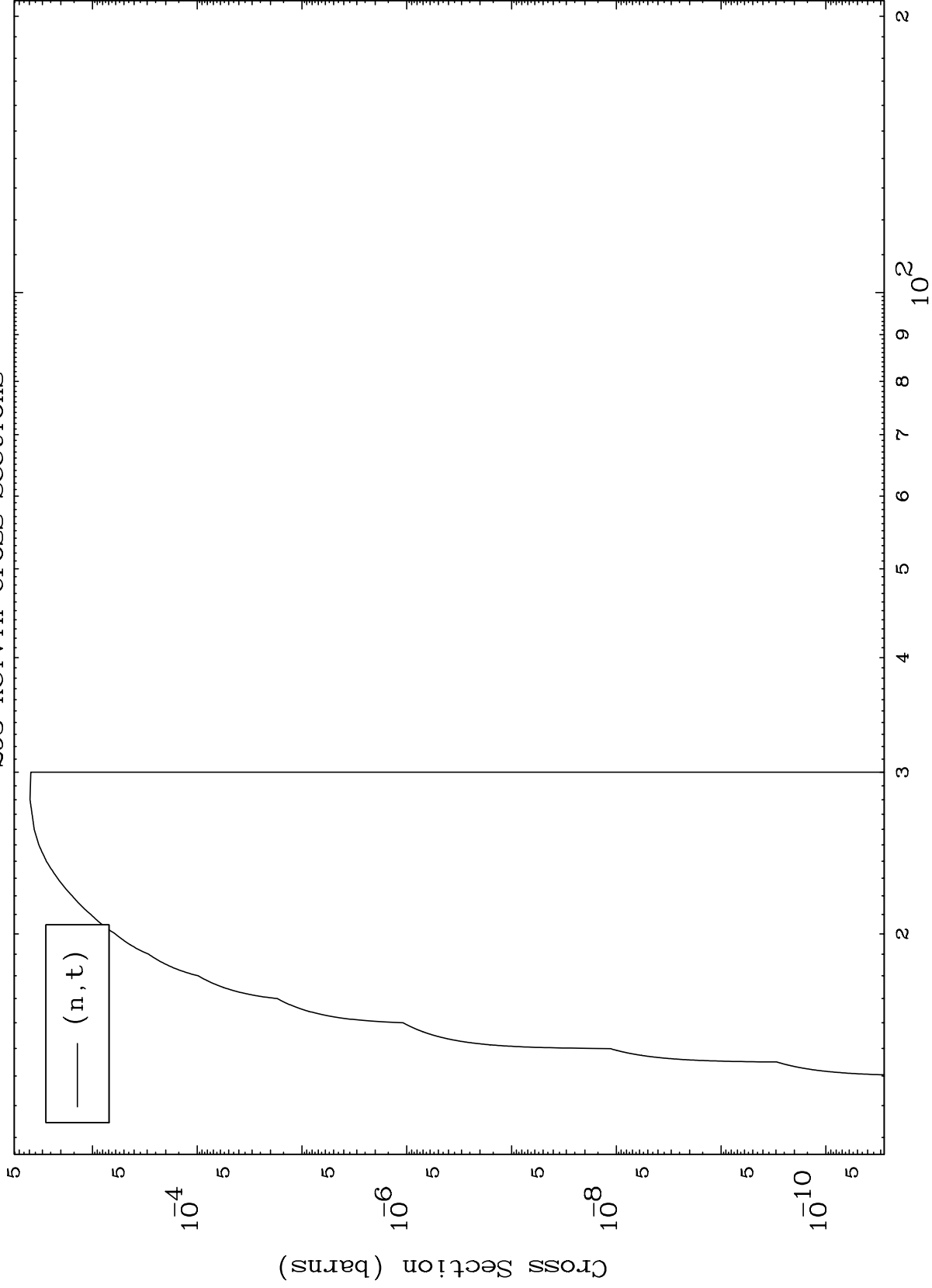
Incident Energy (MeV)

<sup>34</sup>Se-80

MAT 3443

(n,t) Levels  
293 Kelvin Cross Sections

<sup>34</sup>Se-80



12

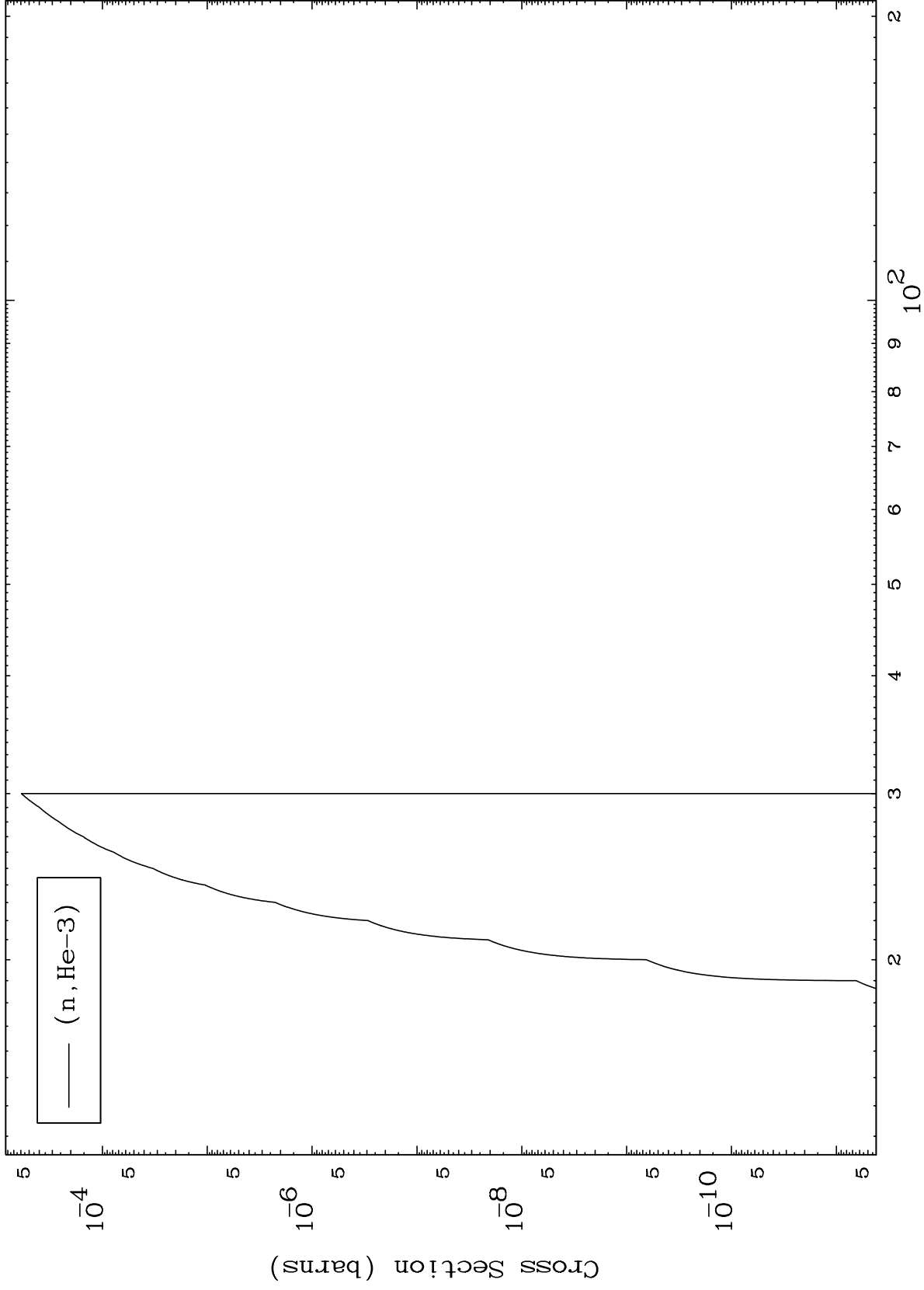
Incident Energy (MeV)

<sup>34</sup>Se-80

MAT 3443

(n,He3) Levels  
293 Kelvin Cross Sections

34-Se-80



13

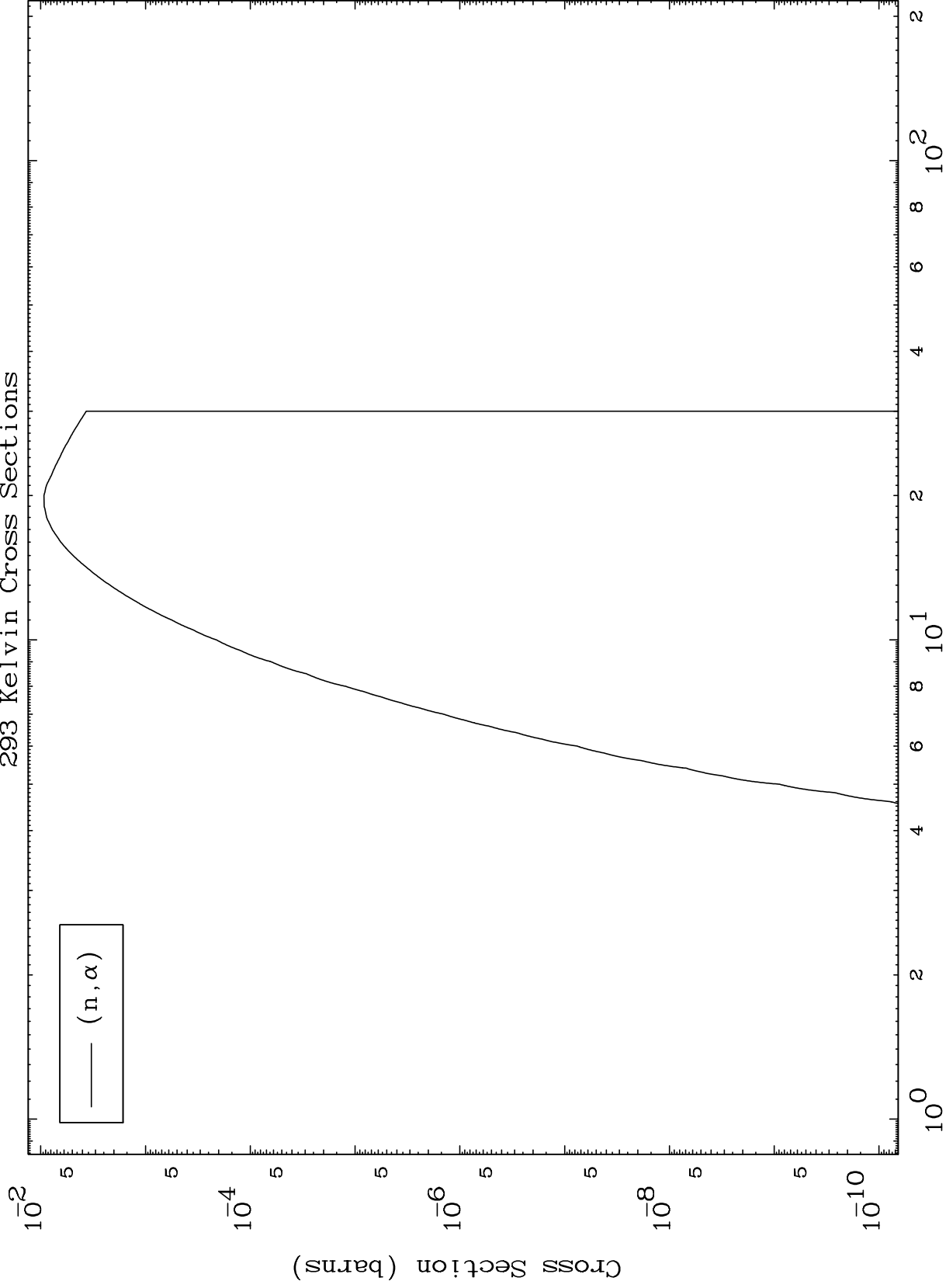
Incident Energy (MeV)

34-Se-80

MAT 3443

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

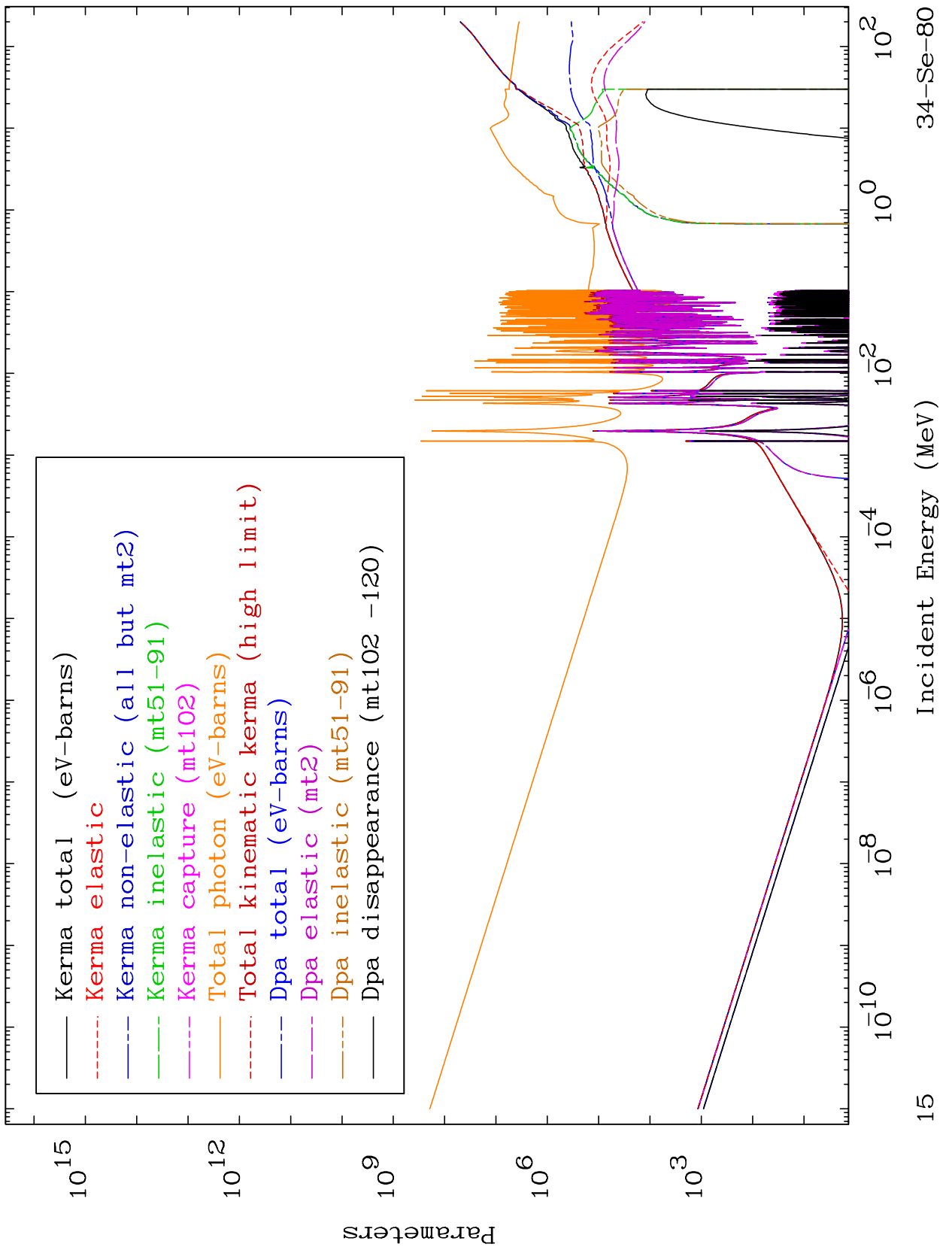
34-Se-80



(n,  $\alpha$ )

Incident Energy (MeV)

34-Se-80

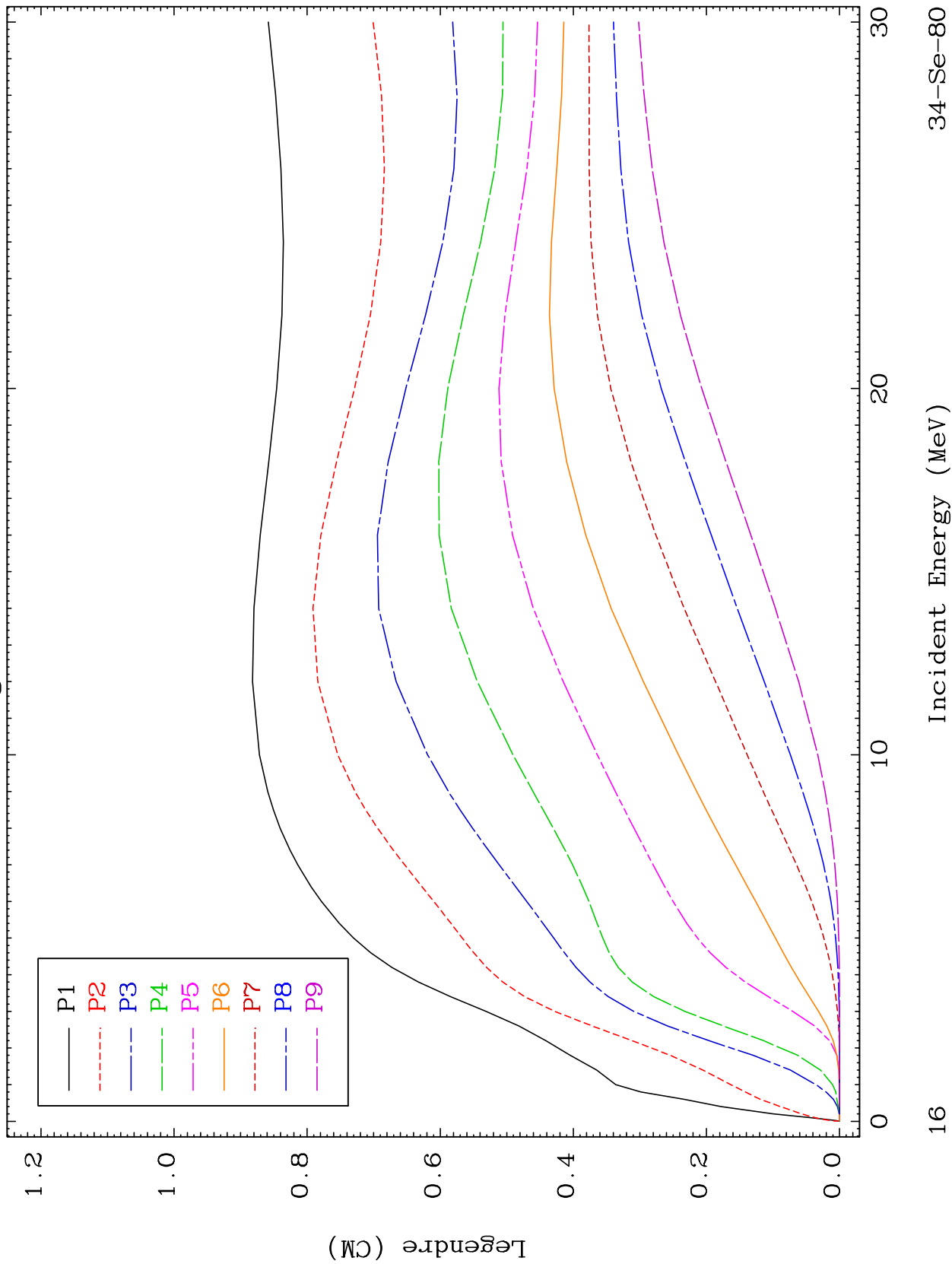




MAT 3443

Elastic Legendre Coefficients

<sup>34</sup>Se-80



16

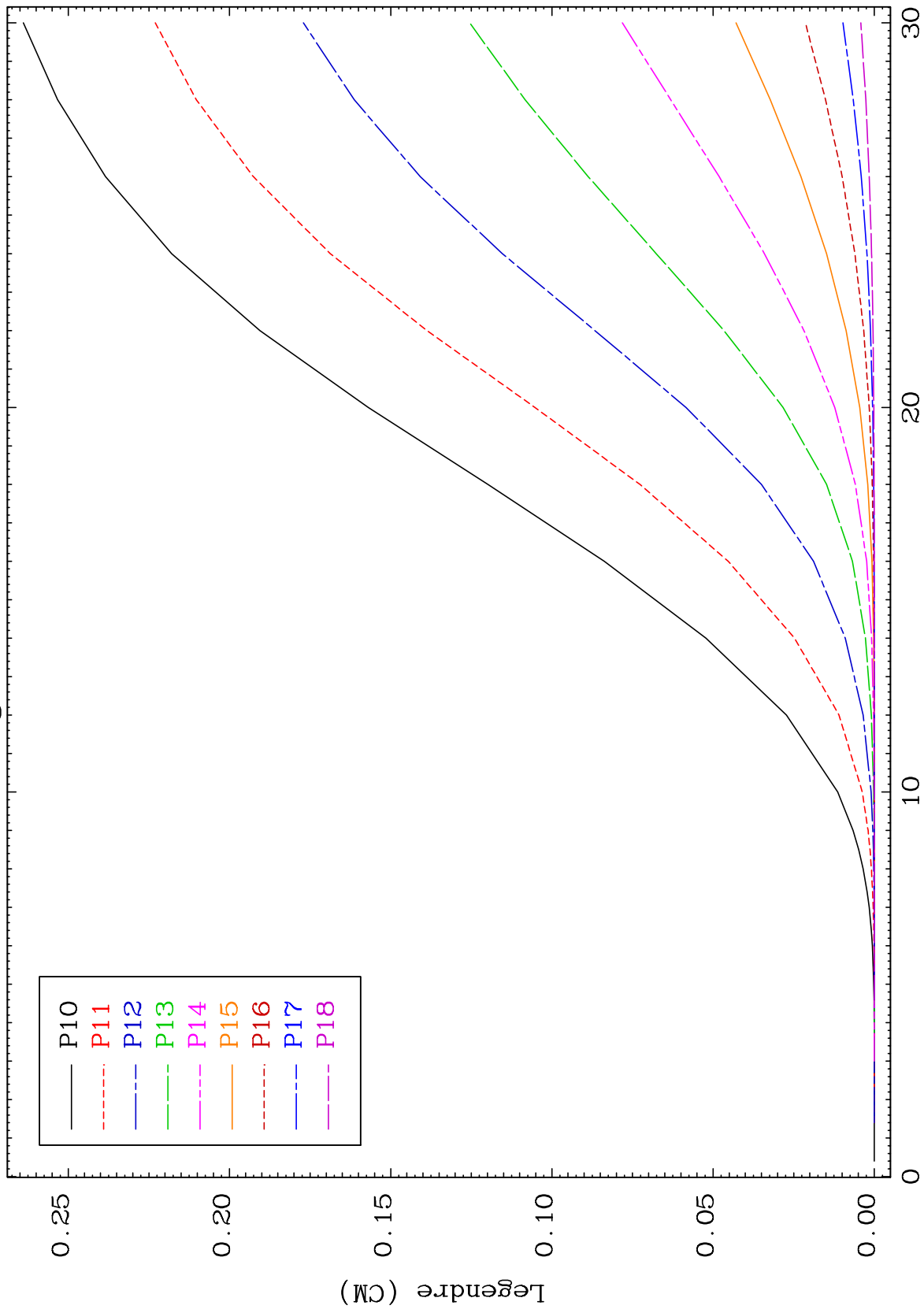
Incident Energy (MeV)

<sup>34</sup>Se-80

MAT 3443

Elastic Legendre Coefficients

<sup>34</sup>Se-80



17

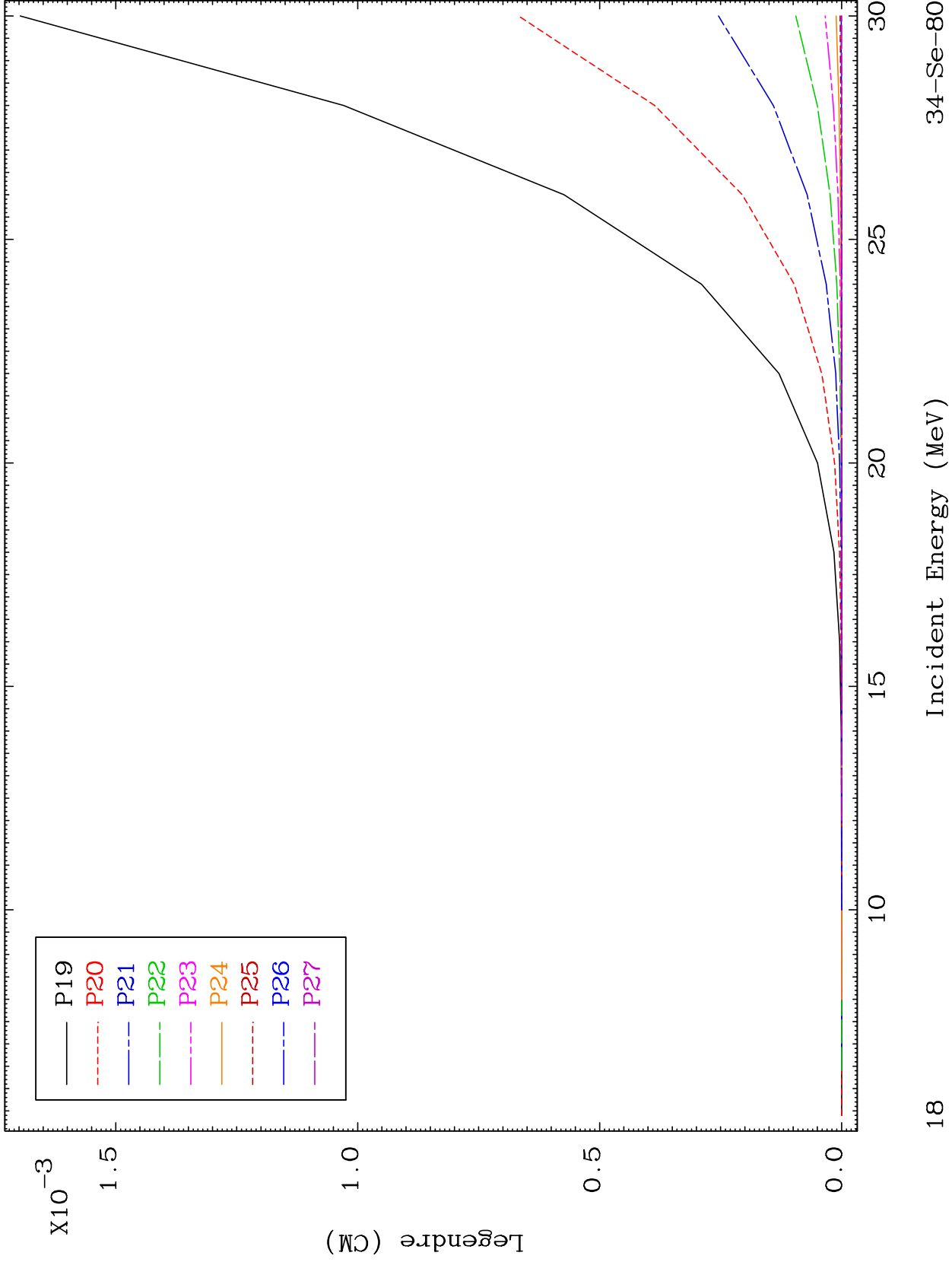
Incident Energy (MeV)

<sup>34</sup>Se-80

MAT 3443

Elastic Legendre Coefficients

<sup>34</sup>Se-80



18

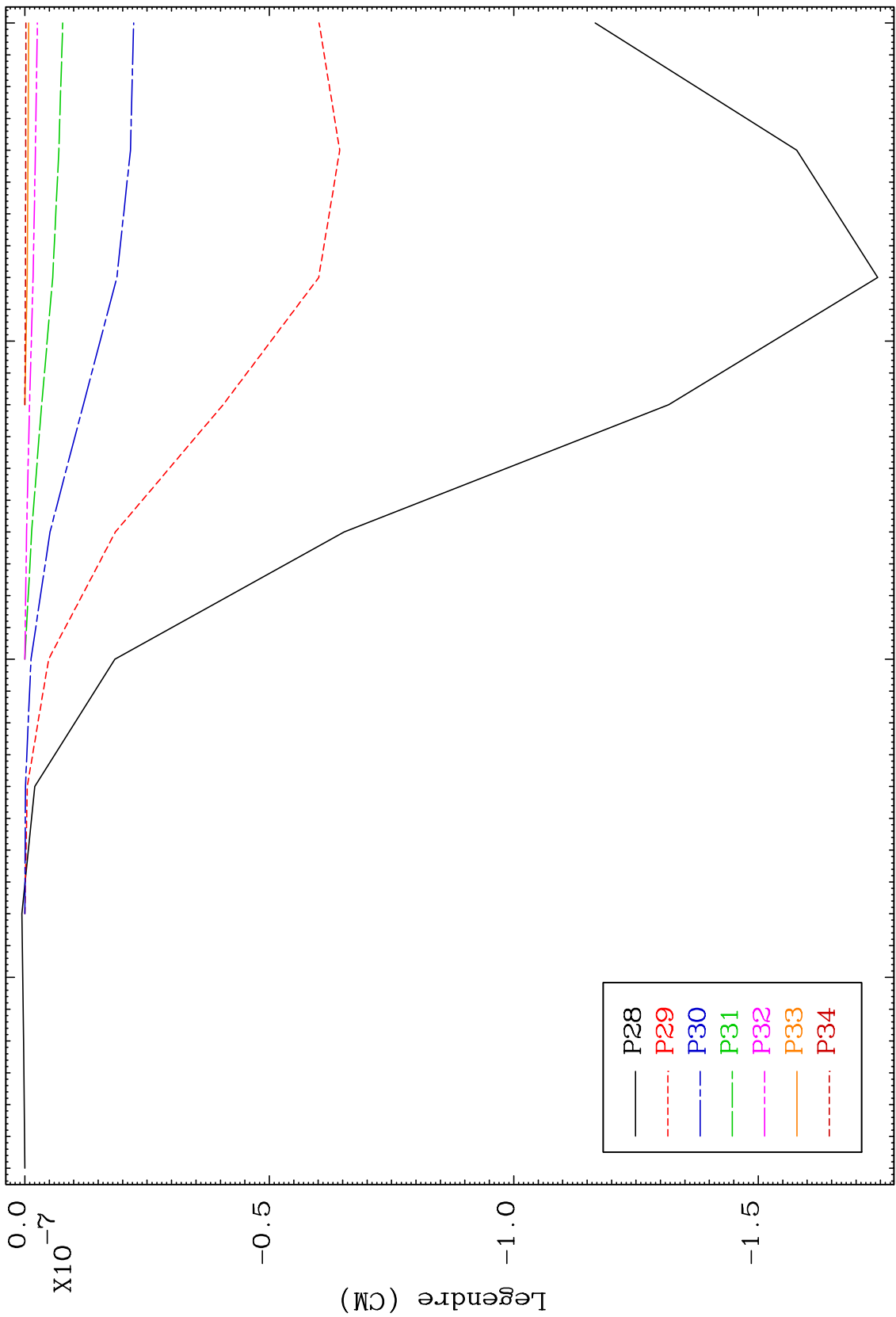
Incident Energy (MeV)

<sup>34</sup>Se-80

MAT 3443

<sup>34</sup>Se-80

Elastic Legendre Coefficients



19

Incident Energy (MeV)

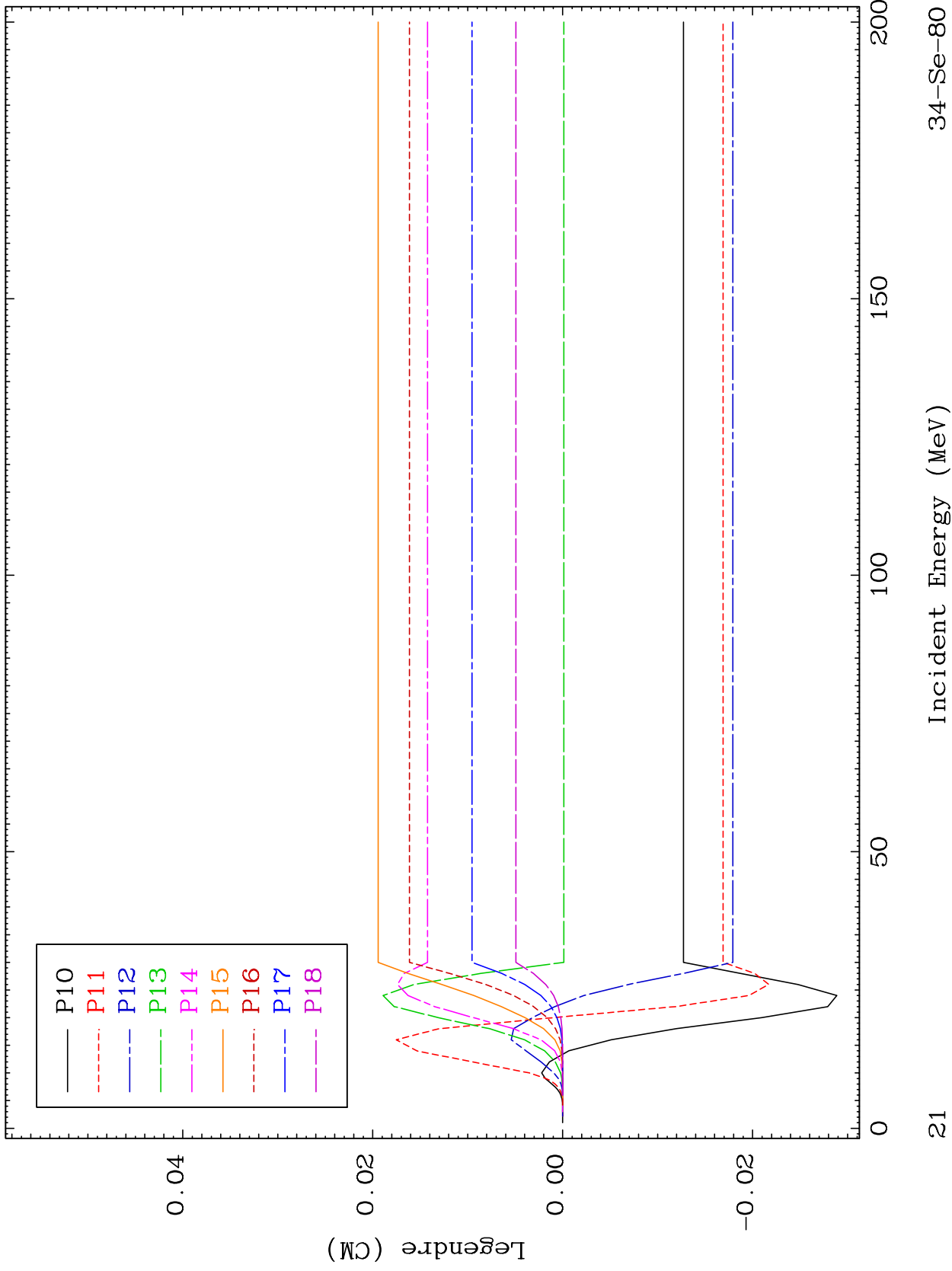
<sup>34</sup>Se-80



MAT 3443

666.3 keV (n,n') Level  
Legendre Coefficients

34-Se-80

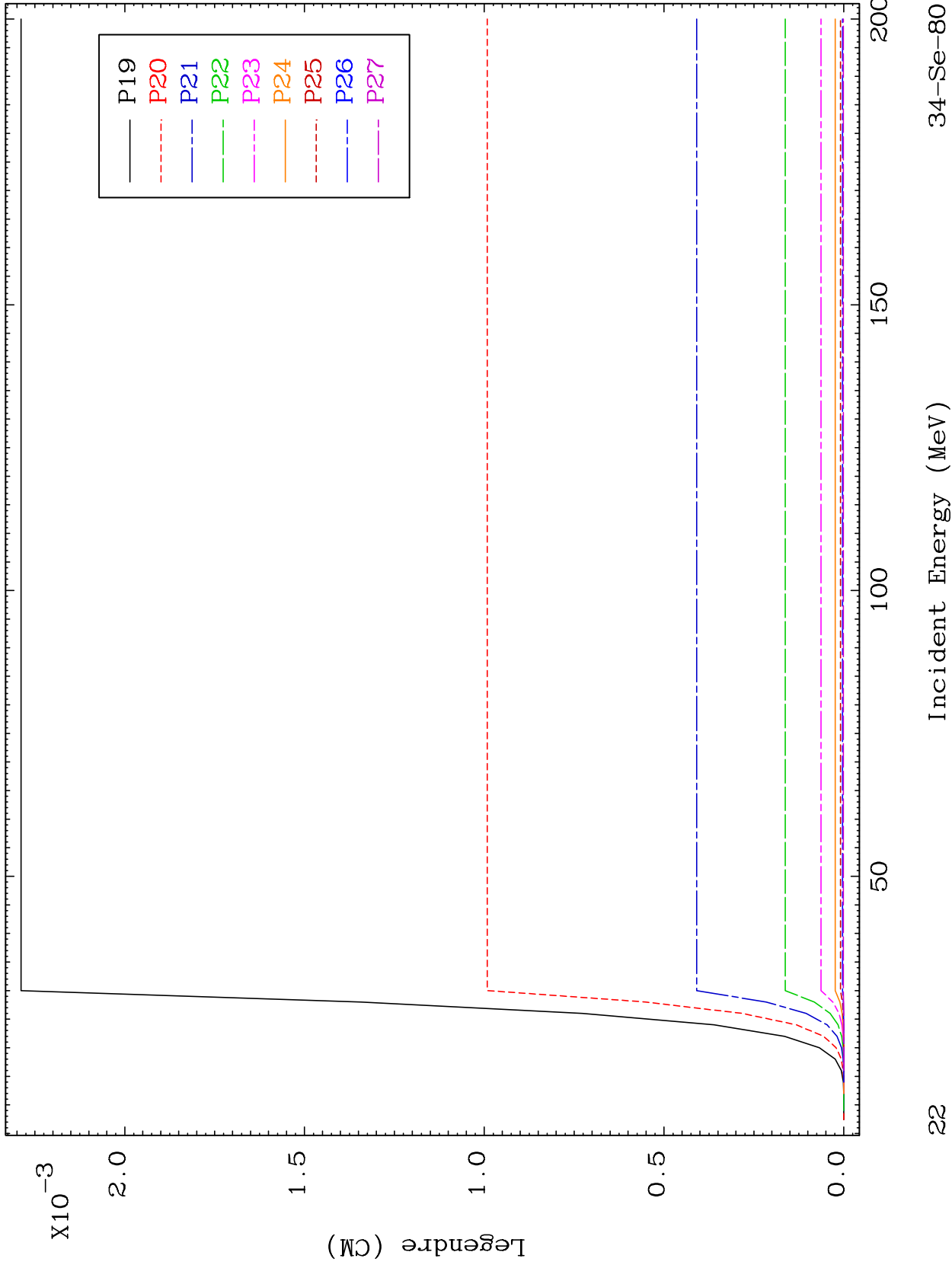


21

MAT 3443

666.3 keV (n,n') Level  
Legendre Coefficients

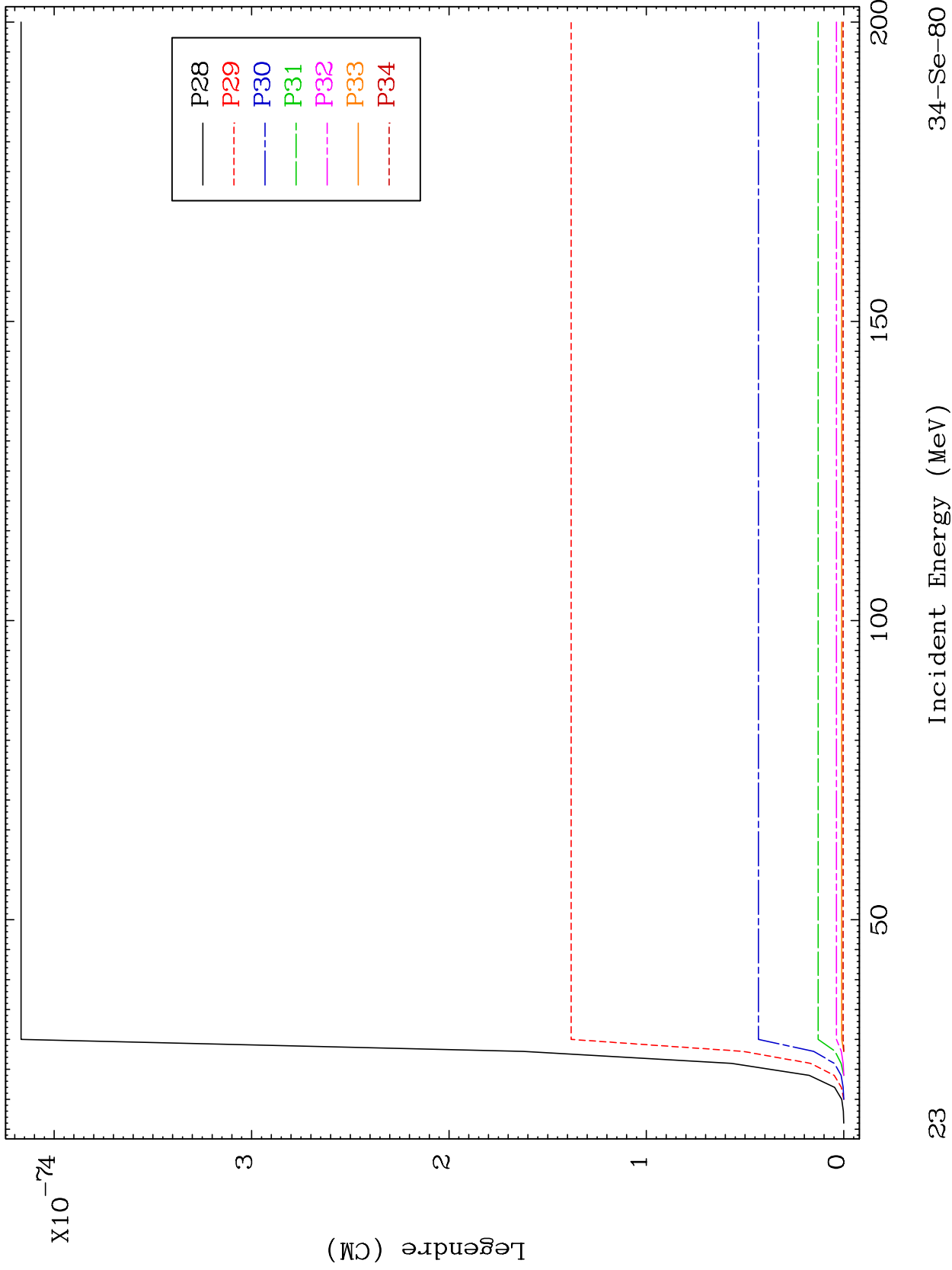
34-Se-80



MAT 3443

666.3 keV (n,n') Level  
Legendre Coefficients

34-Se-80



23

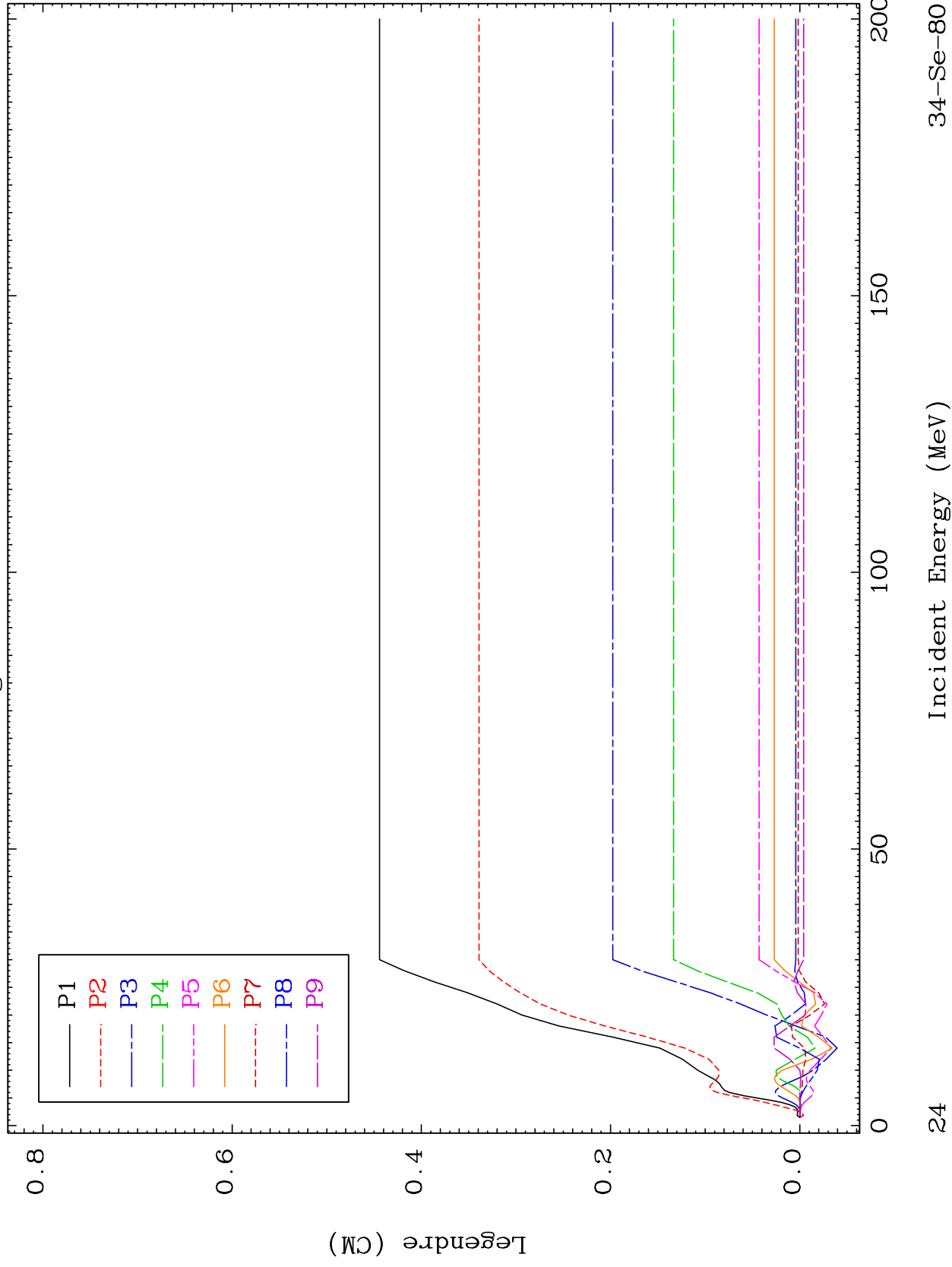
34-Se-80



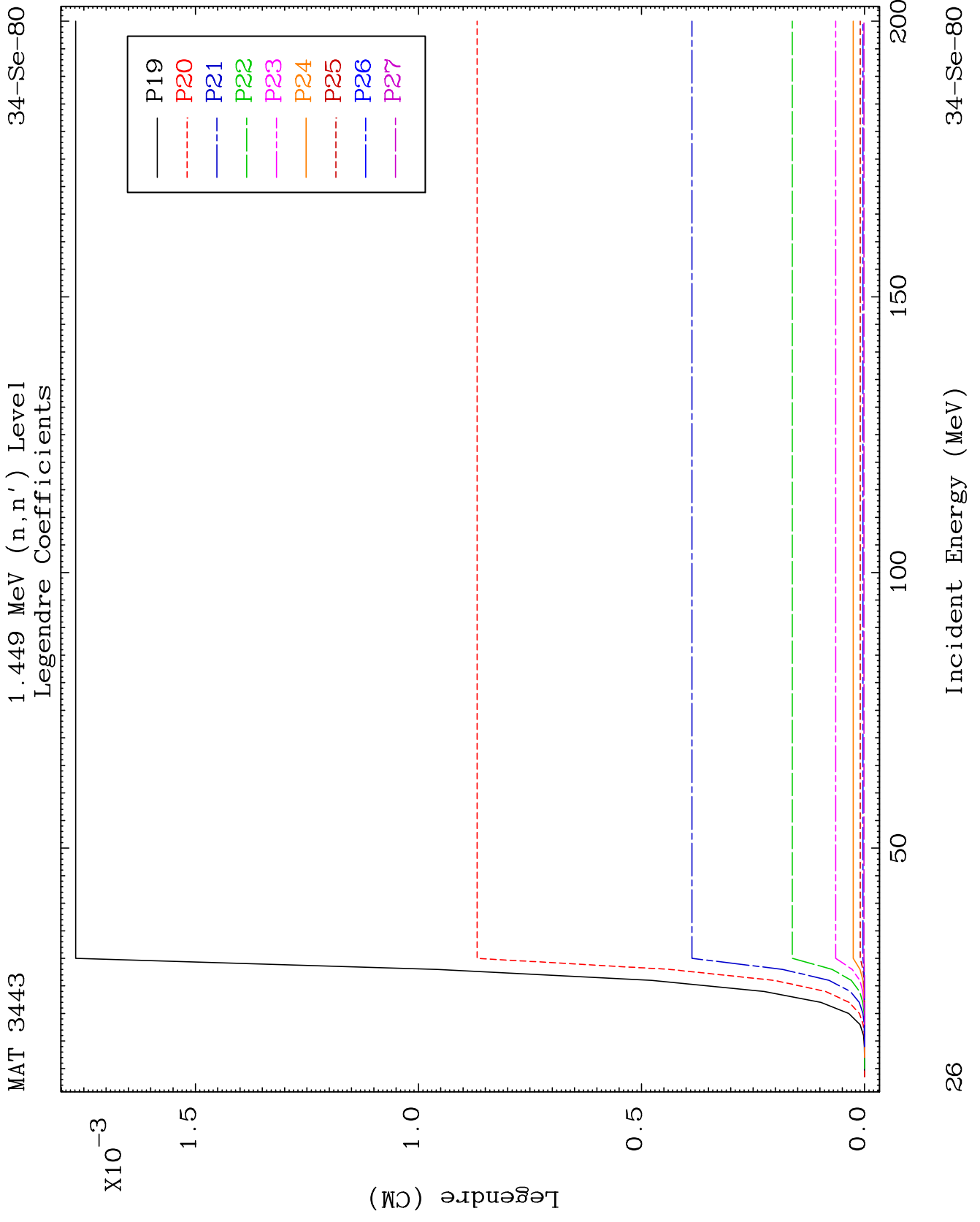
MAT 3443

1.449 MeV (n,n') Level  
Legendre Coefficients

<sup>34</sup>Se-80



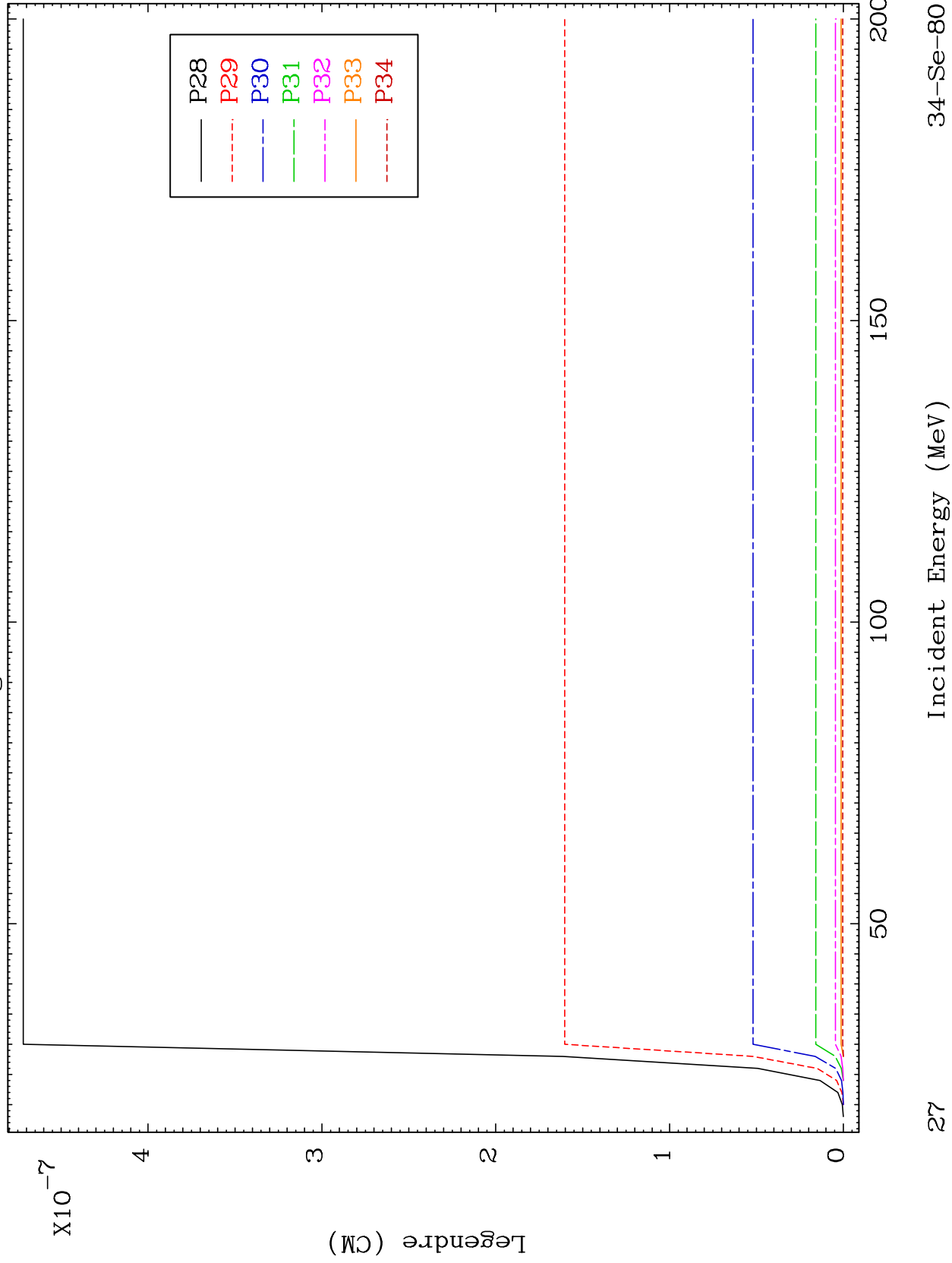




MAT 3443

1.449 MeV (n,n') Level  
Legendre Coefficients

34-Se-80



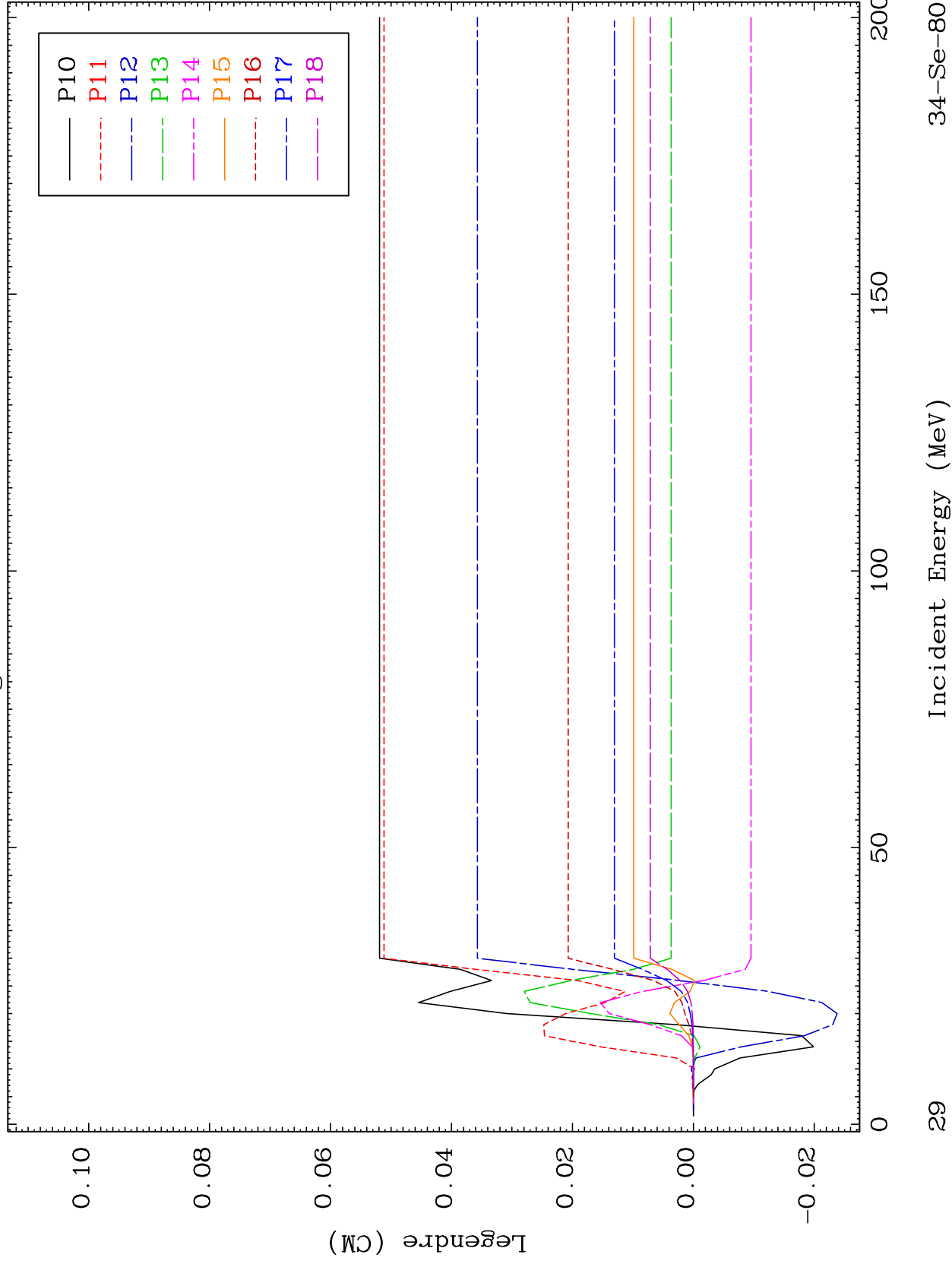
27



MAT 3443

1.479 MeV (n,n') Level  
Legendre Coefficients

<sup>34</sup>Se-80



<sup>34</sup>Se-80

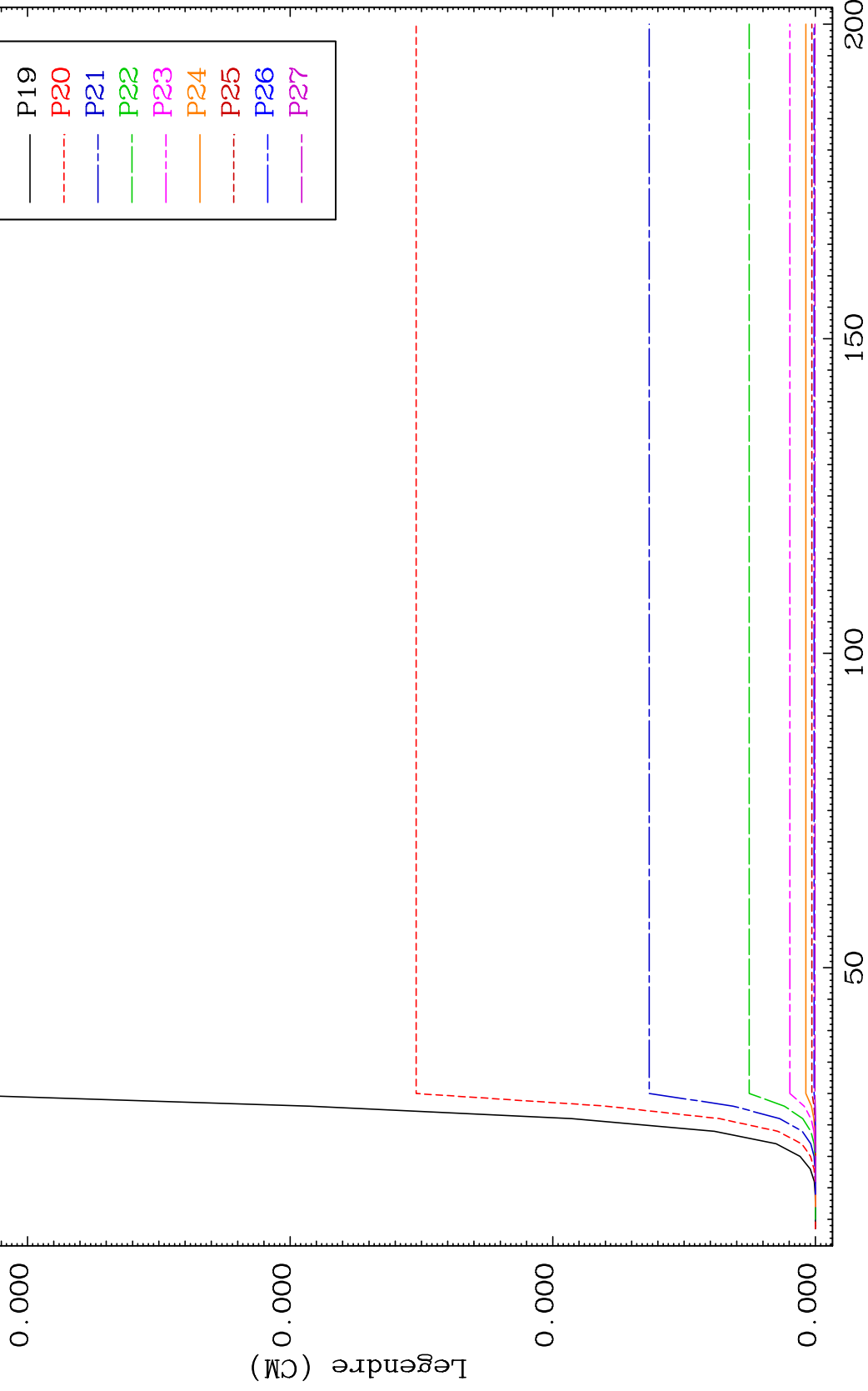
Incident Energy (MeV)

29

MAT 3443

1.479 MeV (n,n') Level  
Legendre Coefficients

34-Se-80



34-Se-80

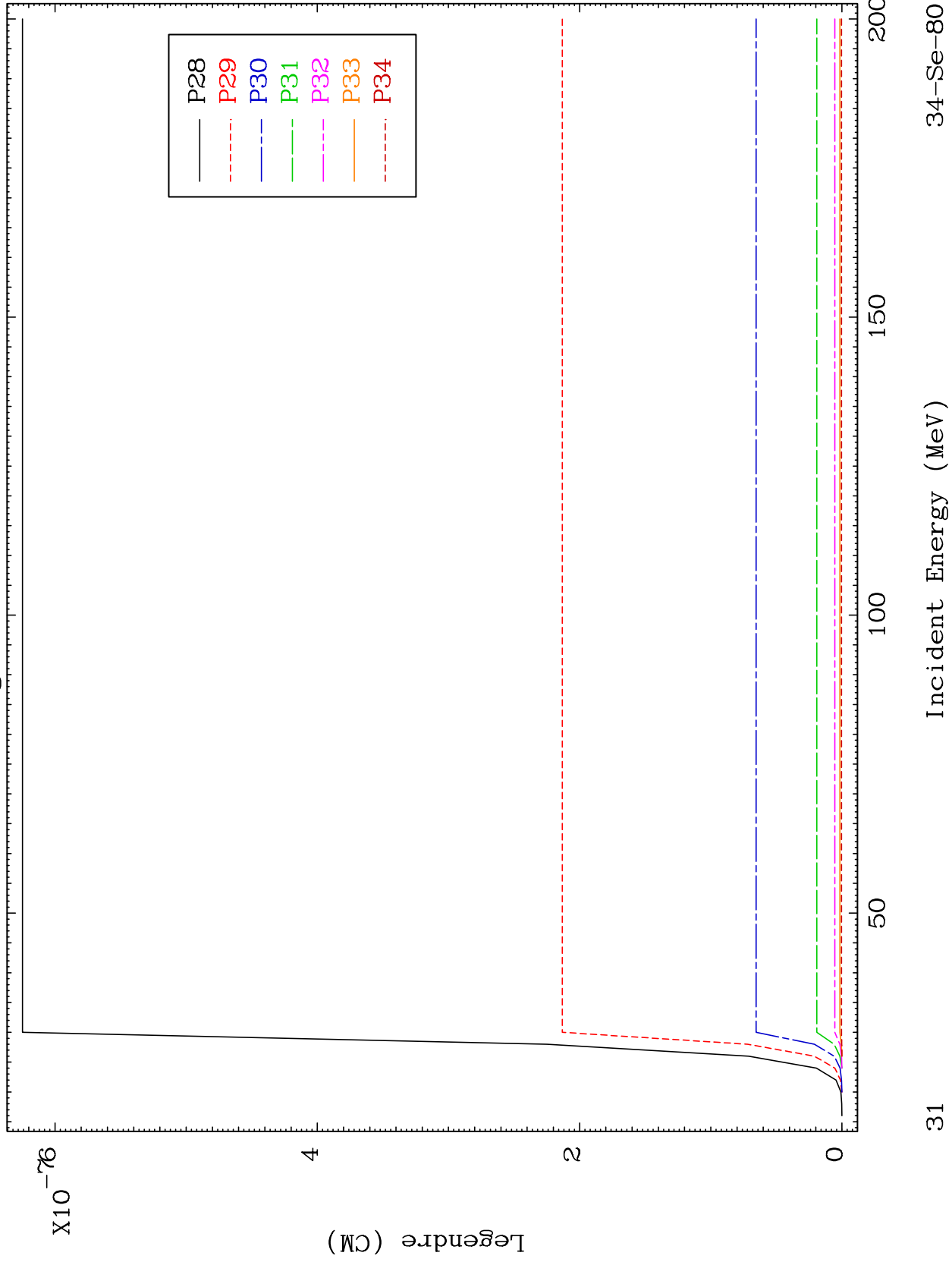
Incident Energy (MeV)

30

MAT 3443

1.479 MeV (n,n') Level  
Legendre Coefficients

34-Se-80



31

Incident Energy (MeV)

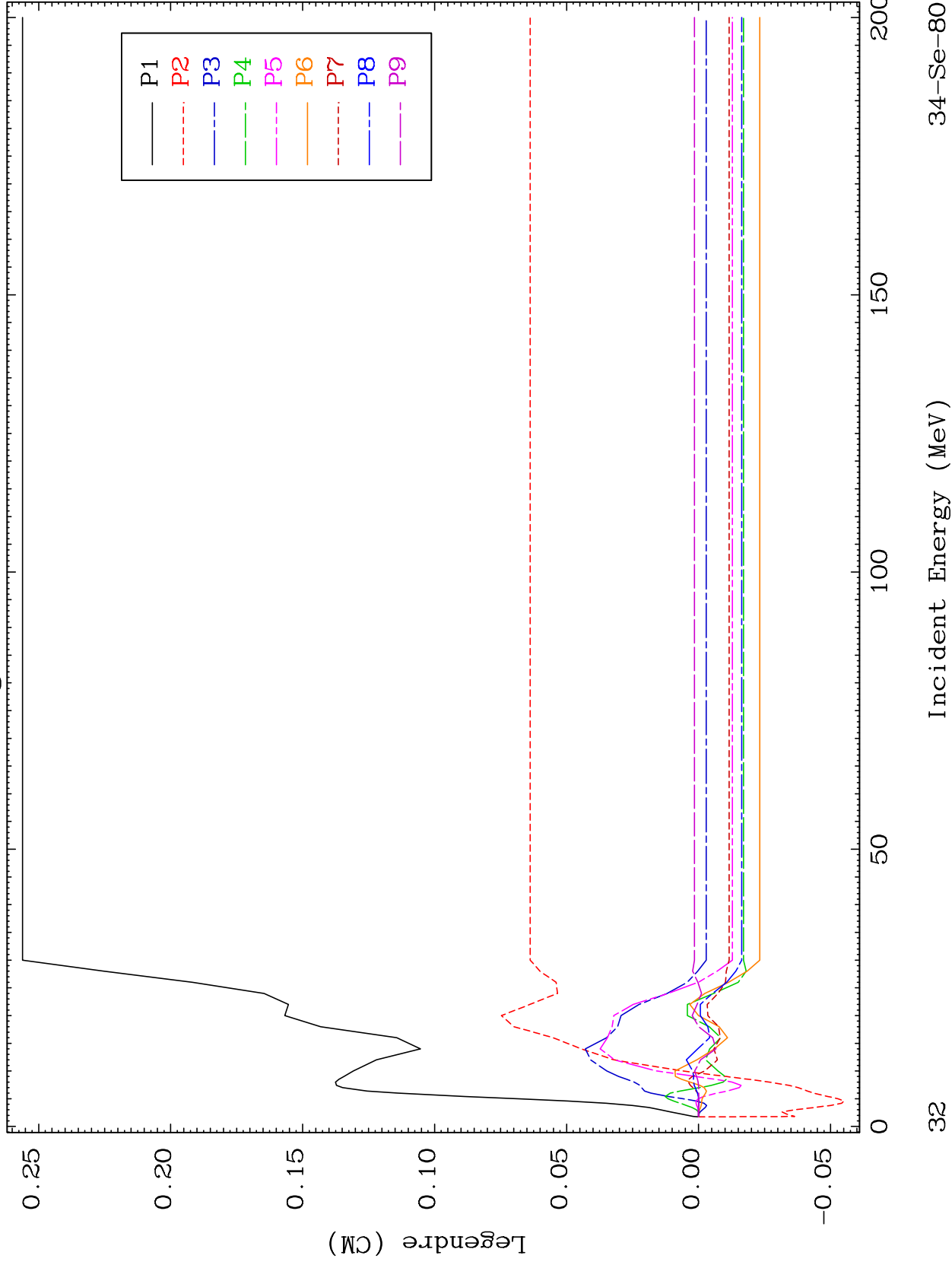
34-Se-80



MAT 3443

1.701 MeV (n,n') Level  
Legendre Coefficients

34-Se-80



34-Se-80

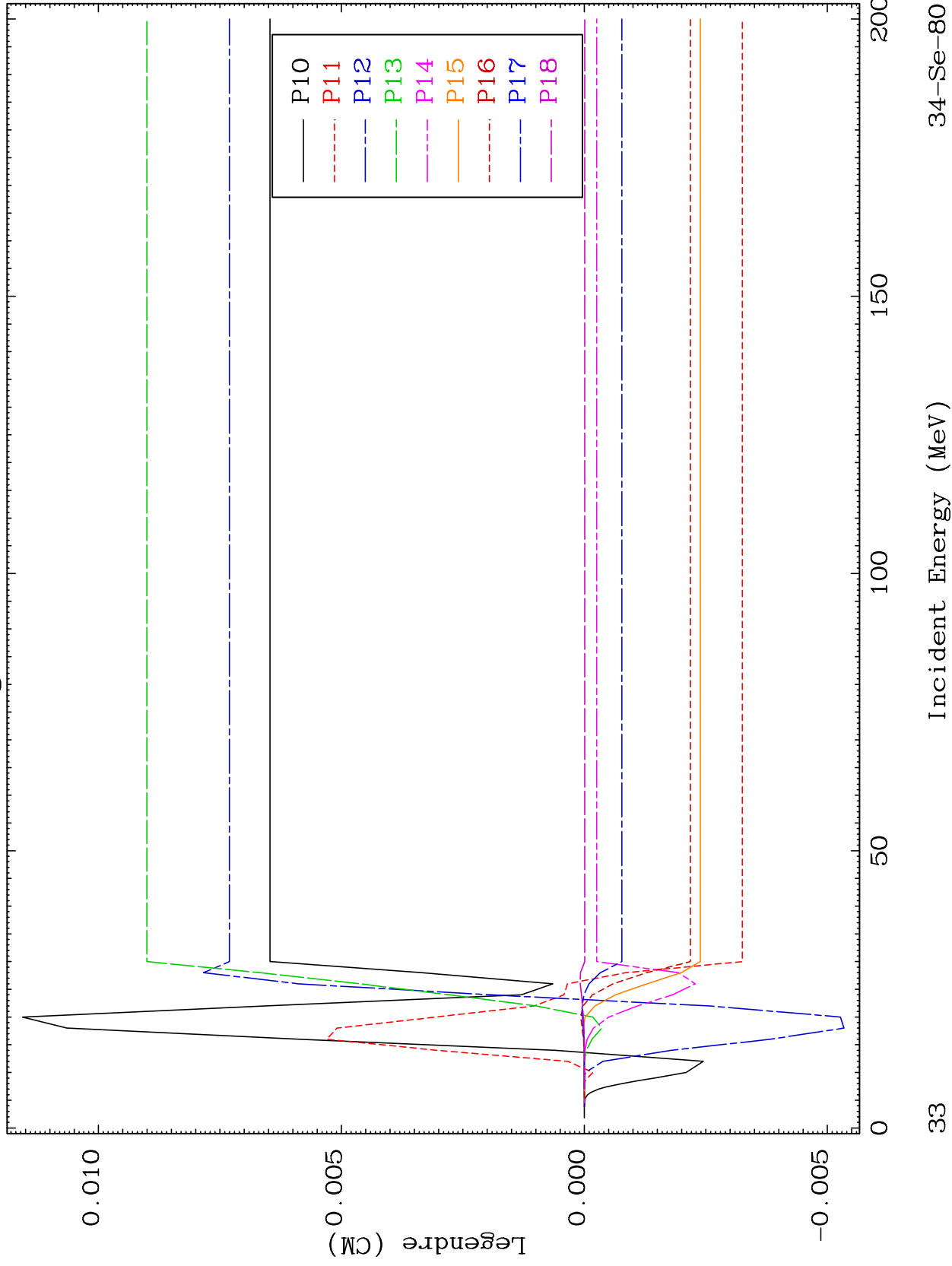
Incident Energy (MeV)

32

MAT 3443

1.701 MeV (n,n') Level  
Legendre Coefficients

34-Se-80



34-Se-80

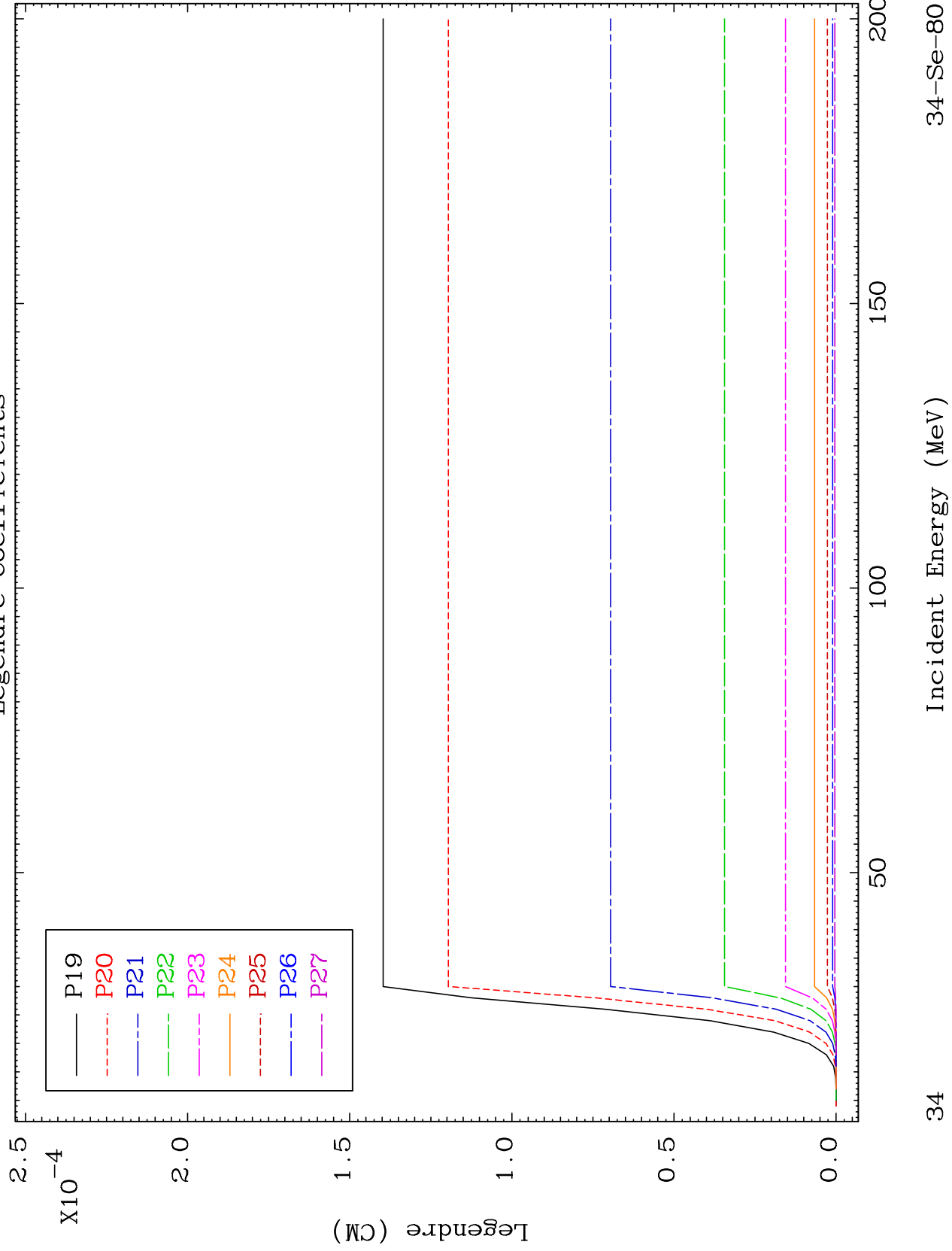
Incident Energy (MeV)

33

MAT 3443

1.701 MeV (n,n') Level  
Legendre Coefficients

34-Se-80



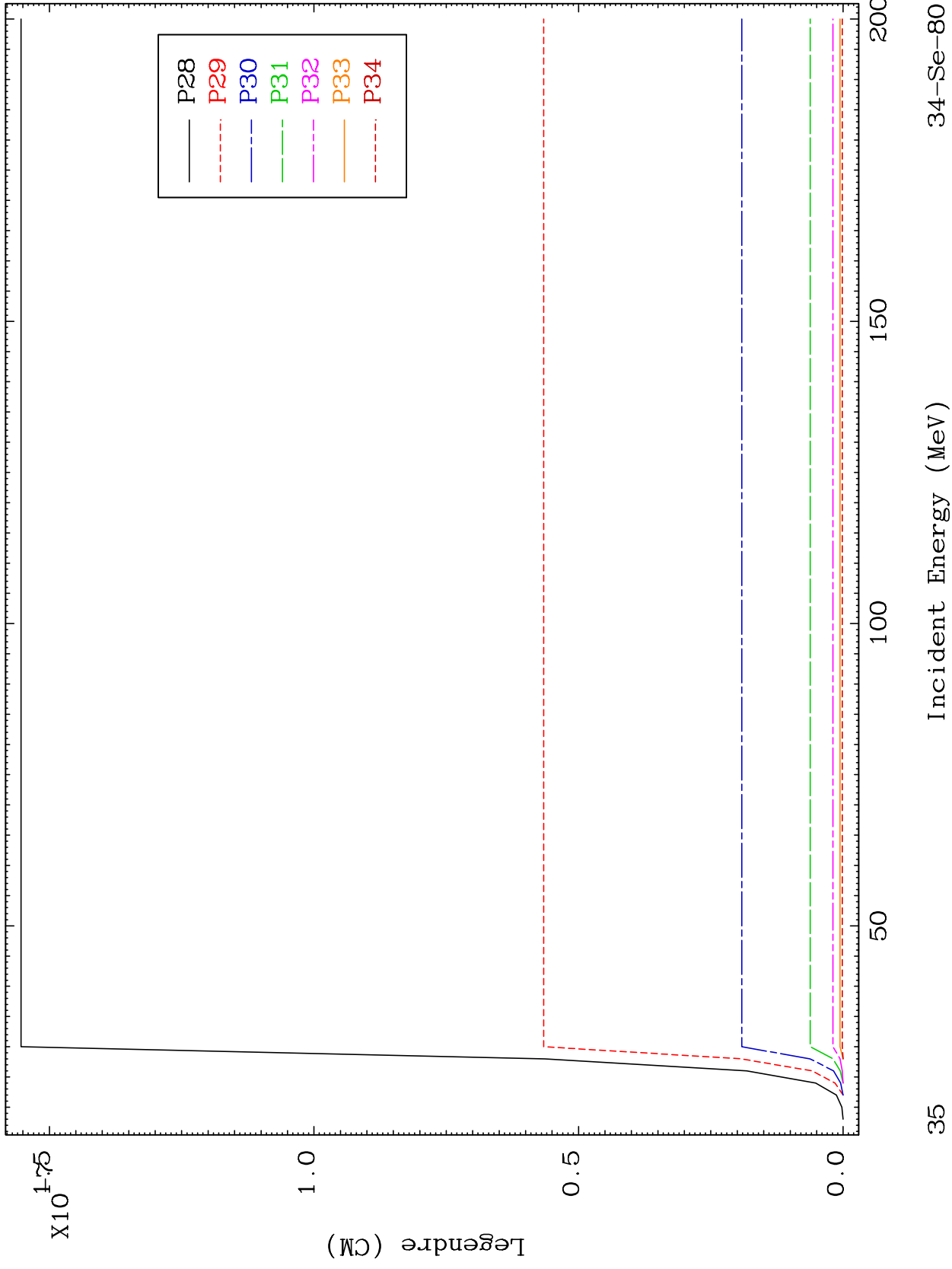
34

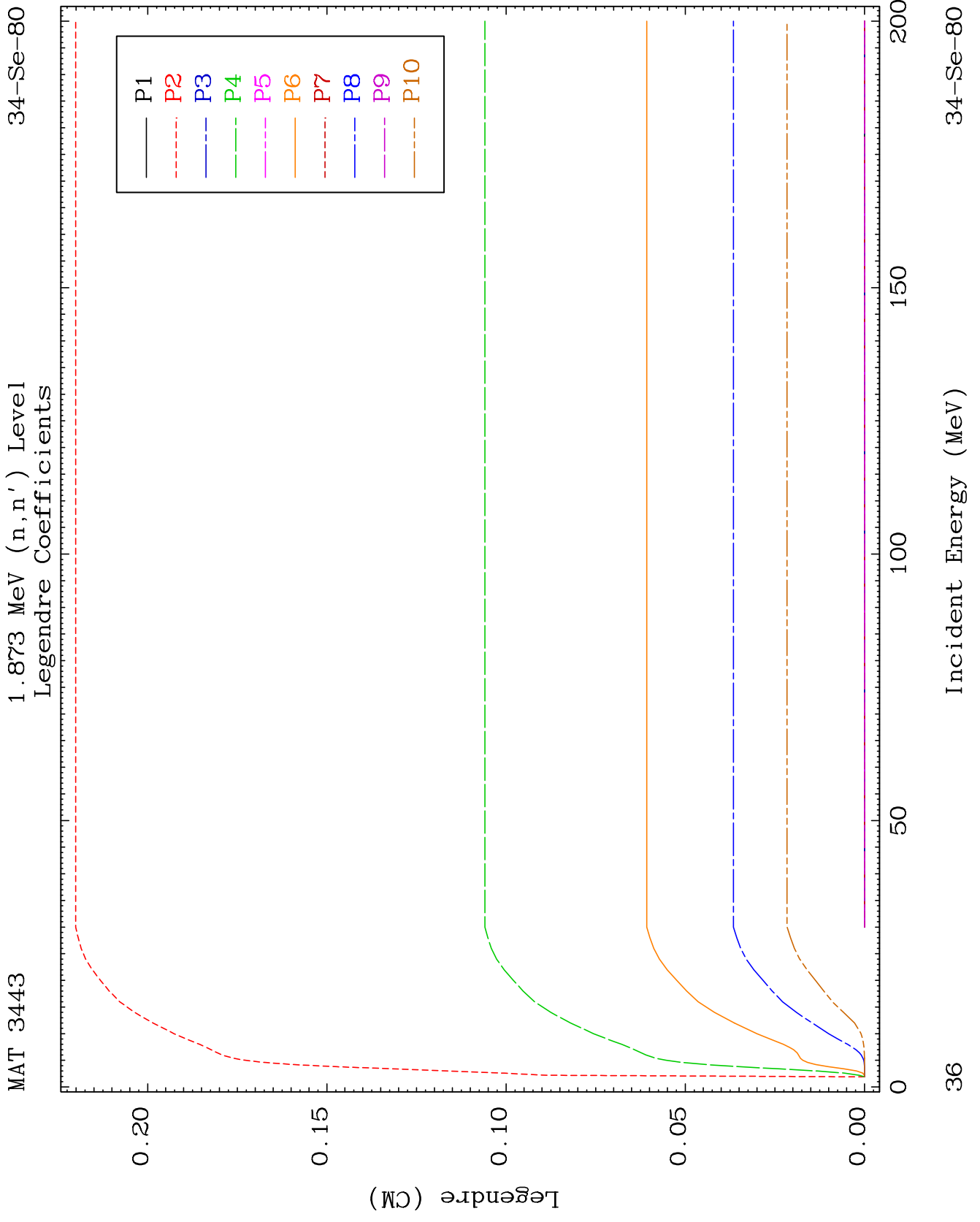
34-Se-80

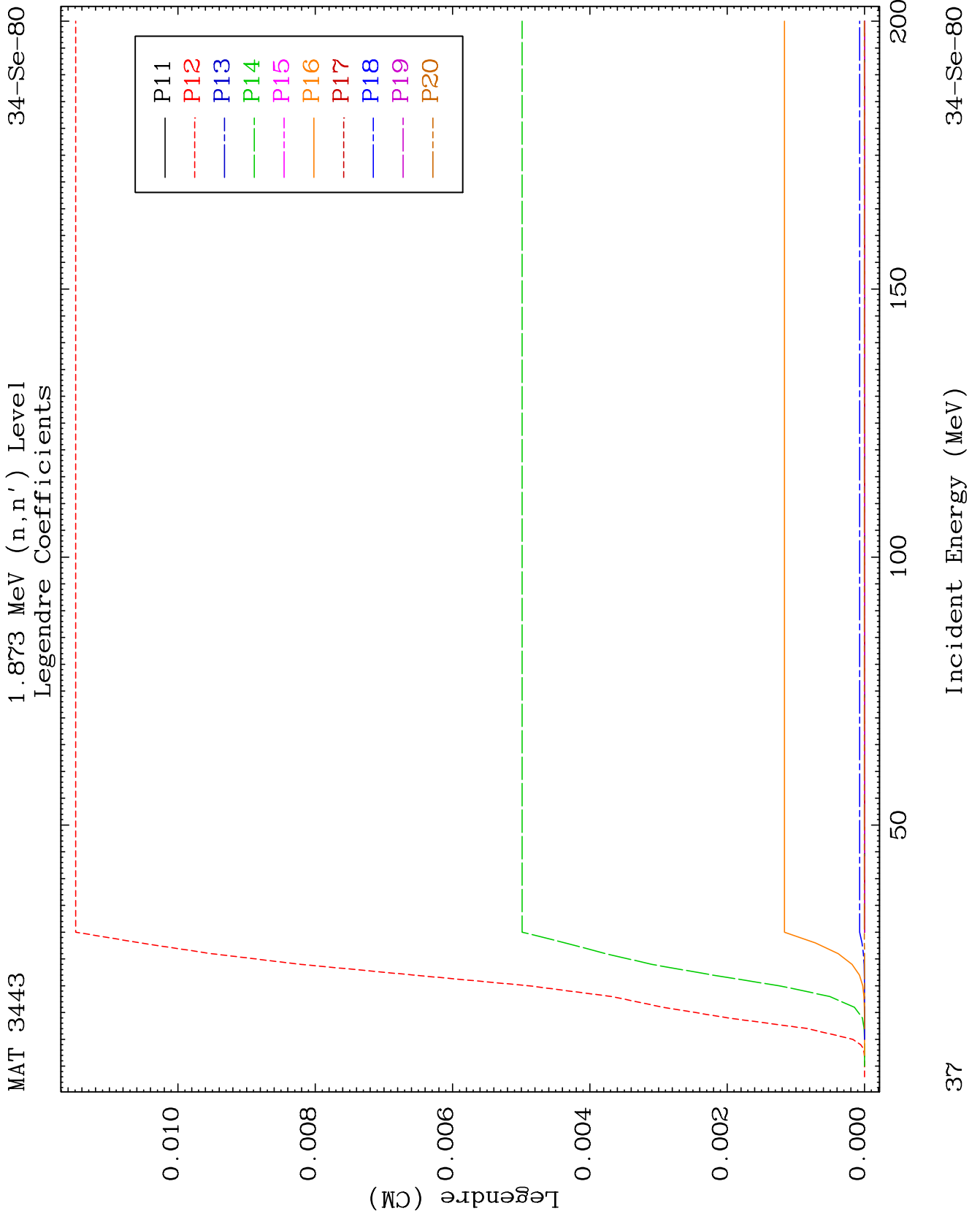
MAT 3443

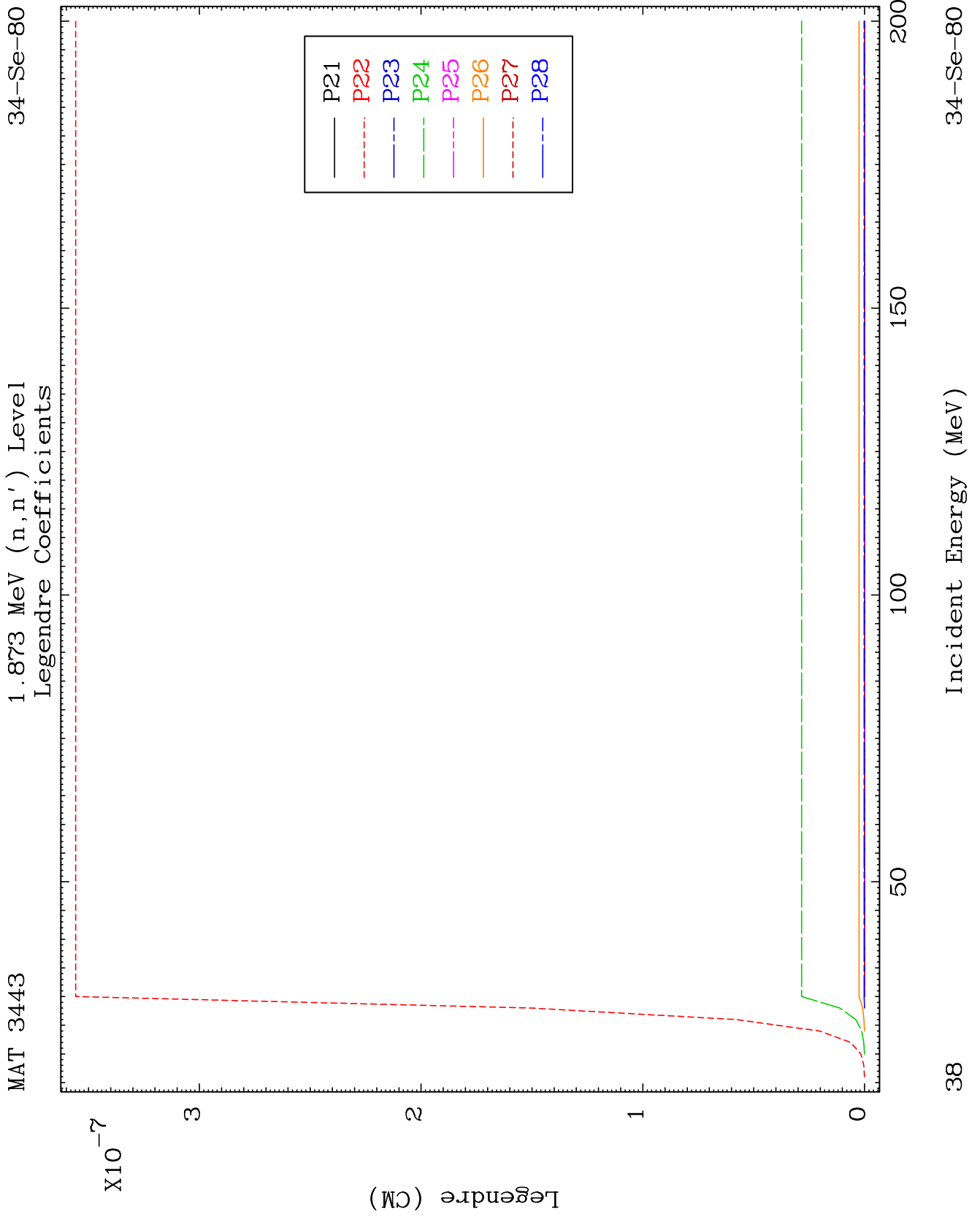
1.701 MeV (n,n') Level  
Legendre Coefficients

34-Se-80





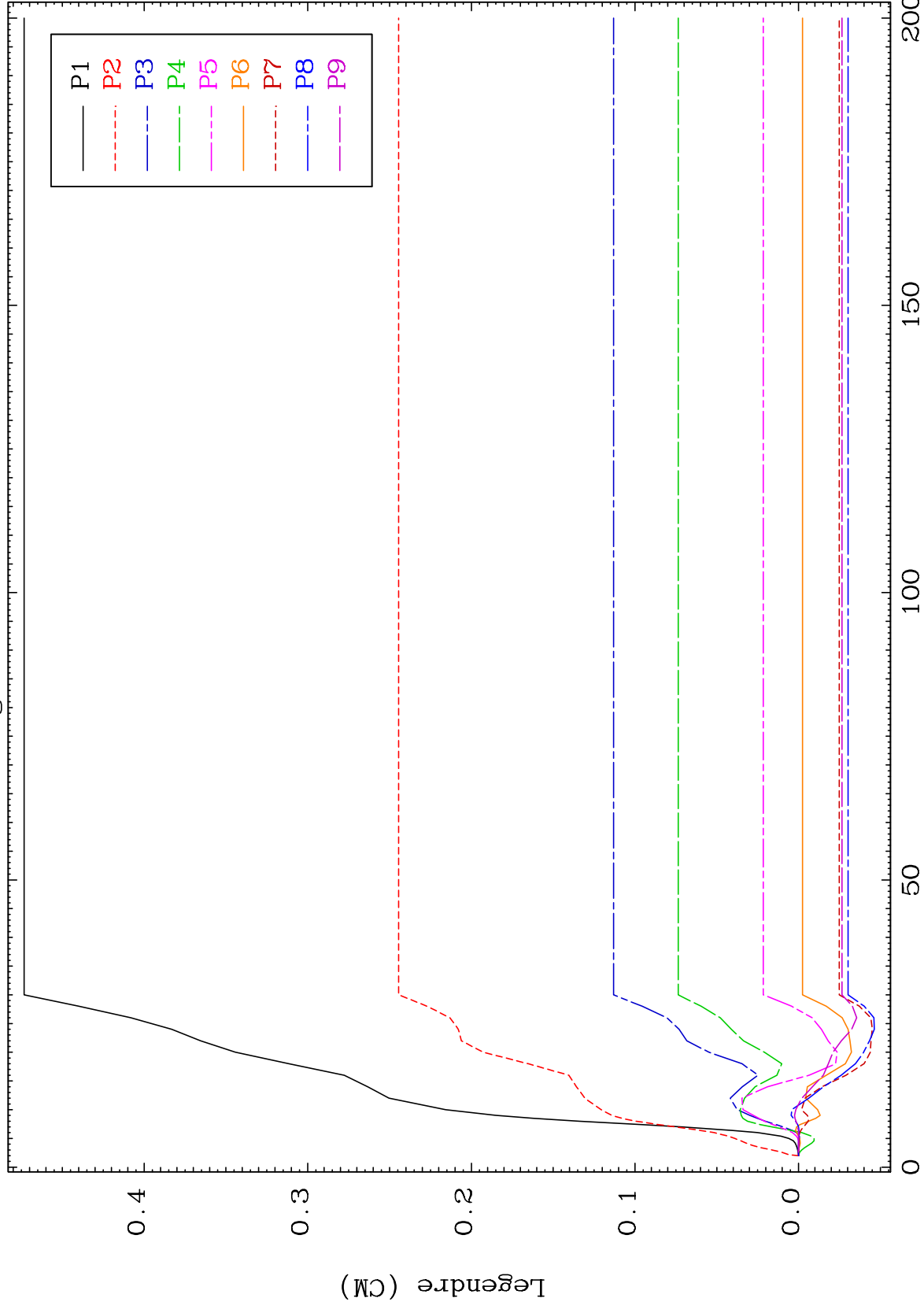




MAT 3443

1.960 MeV (n,n') Level  
Legendre Coefficients

<sup>34</sup>Se-80



<sup>34</sup>Se-80

Incident Energy (MeV)

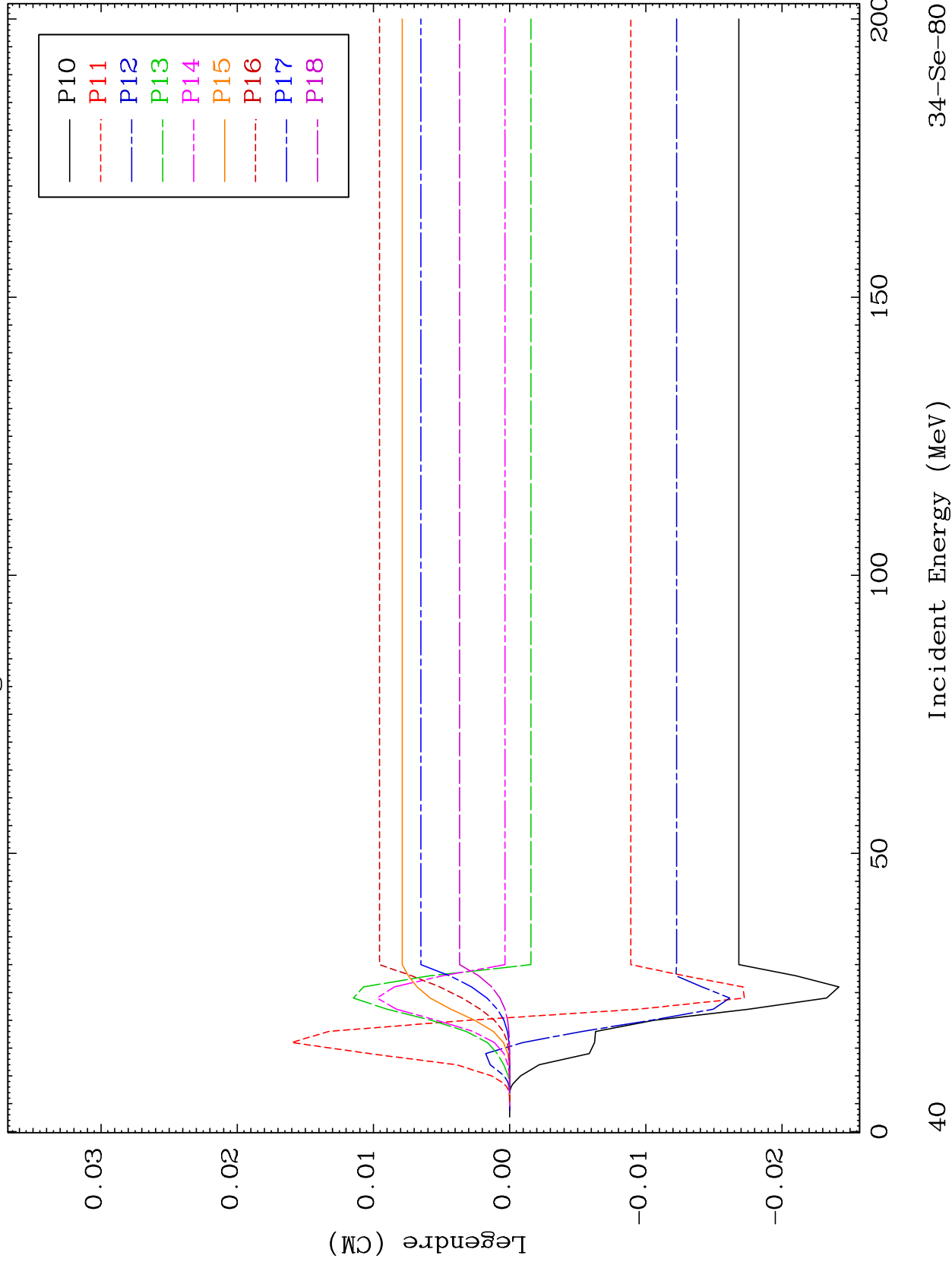
39



MAT 3443

1.960 MeV (n,n') Level  
Legendre Coefficients

34-Se-80



34-Se-80

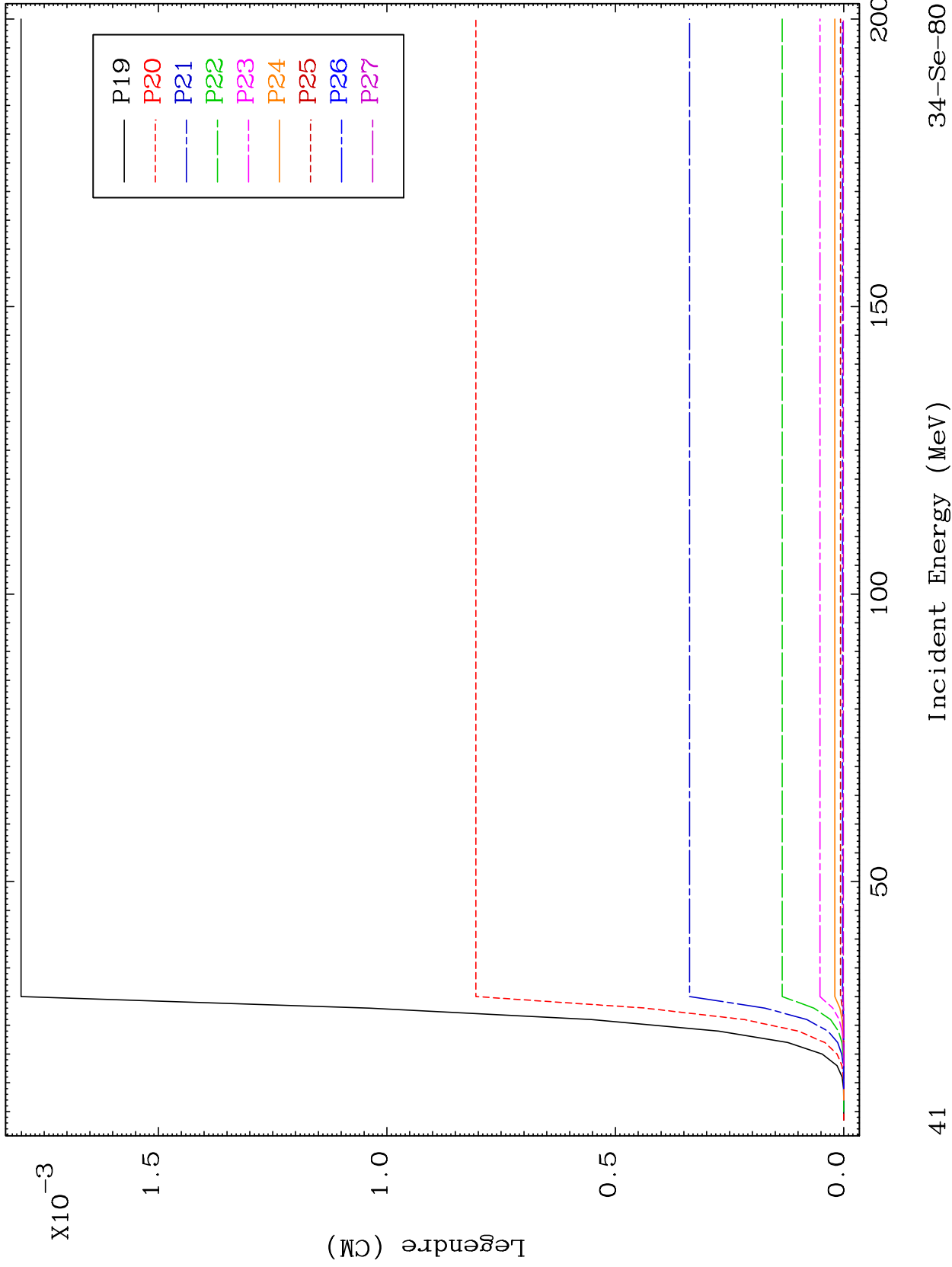
Incident Energy (MeV)

40

MAT 3443

1.960 MeV (n,n') Level  
Legendre Coefficients

34-Se-80



41

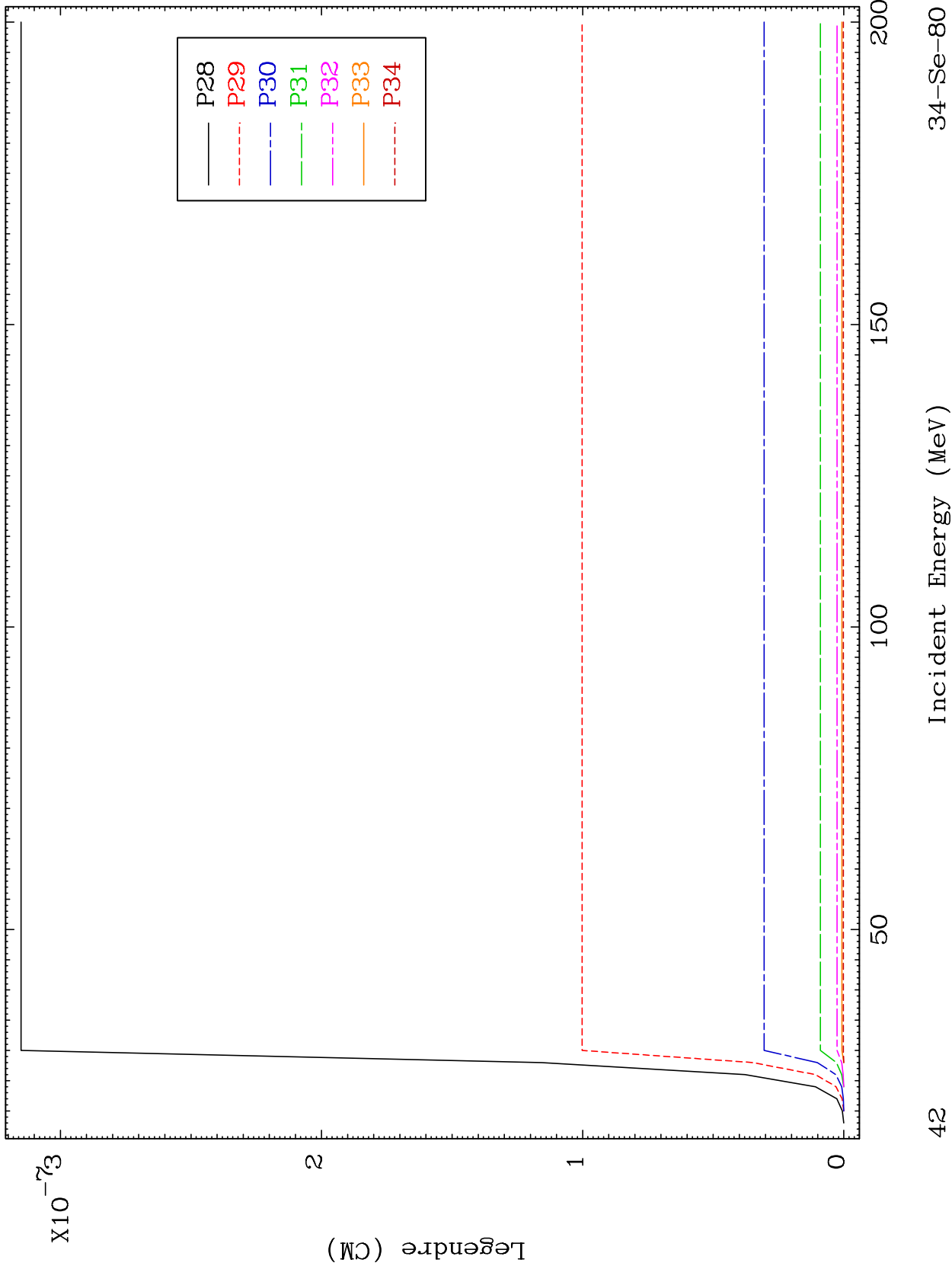
Incident Energy (MeV)

34-Se-80

MAT 3443

1.960 MeV (n,n') Level  
Legendre Coefficients

34-Se-80



42

Incident Energy (MeV)

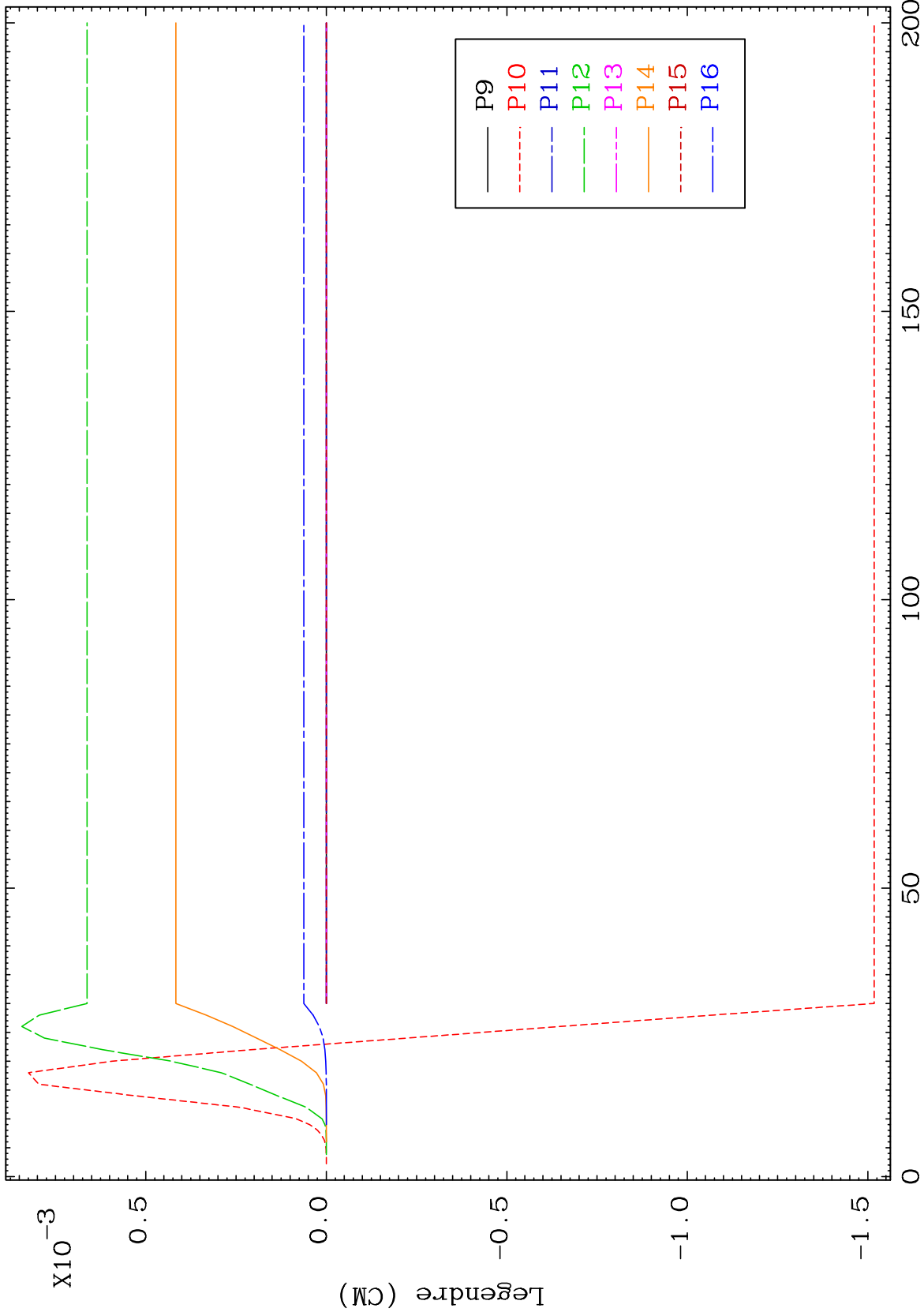
34-Se-80



MAT 3443

2.121 MeV (n,n') Level  
Legendre Coefficients

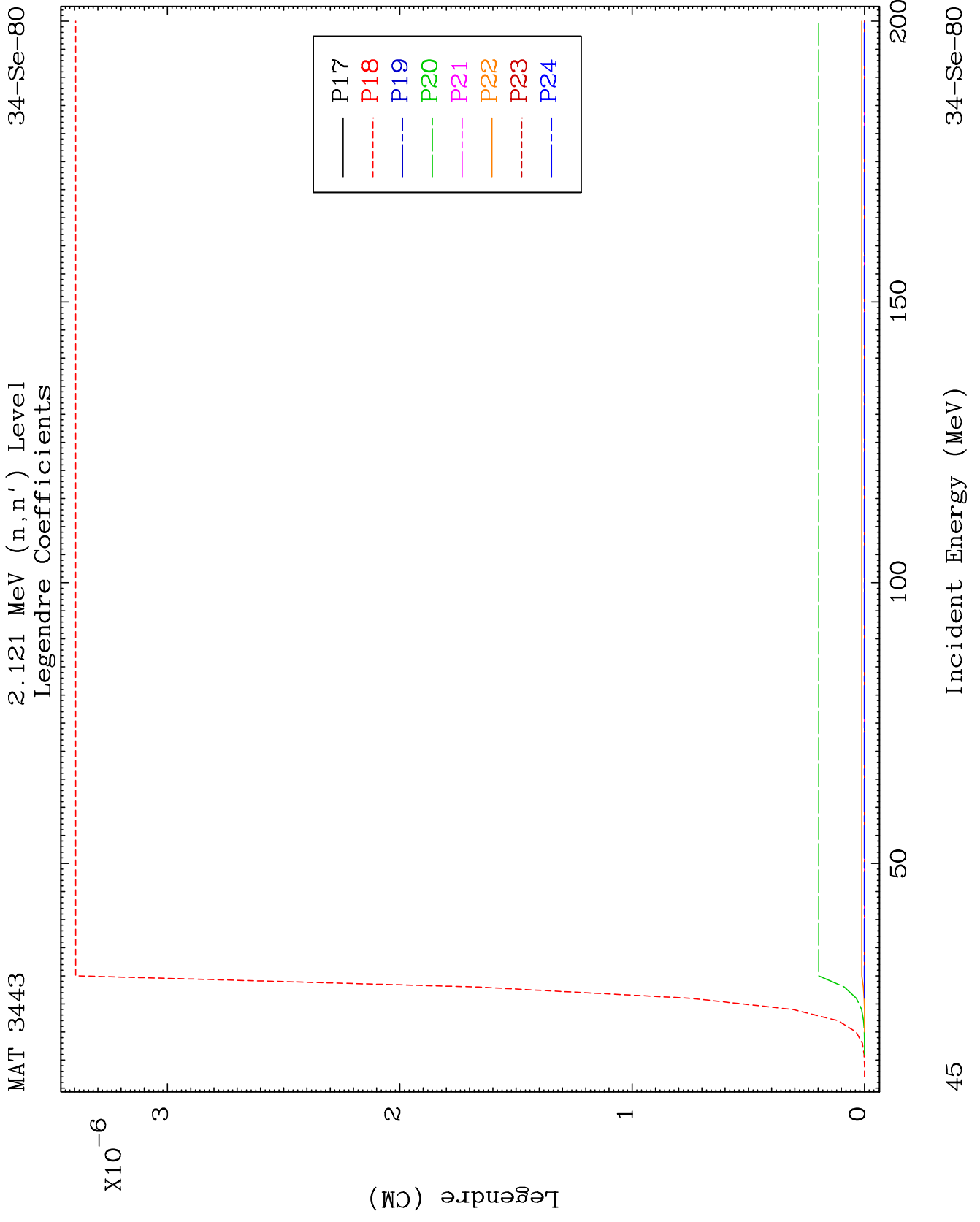
<sup>34</sup>Se-80

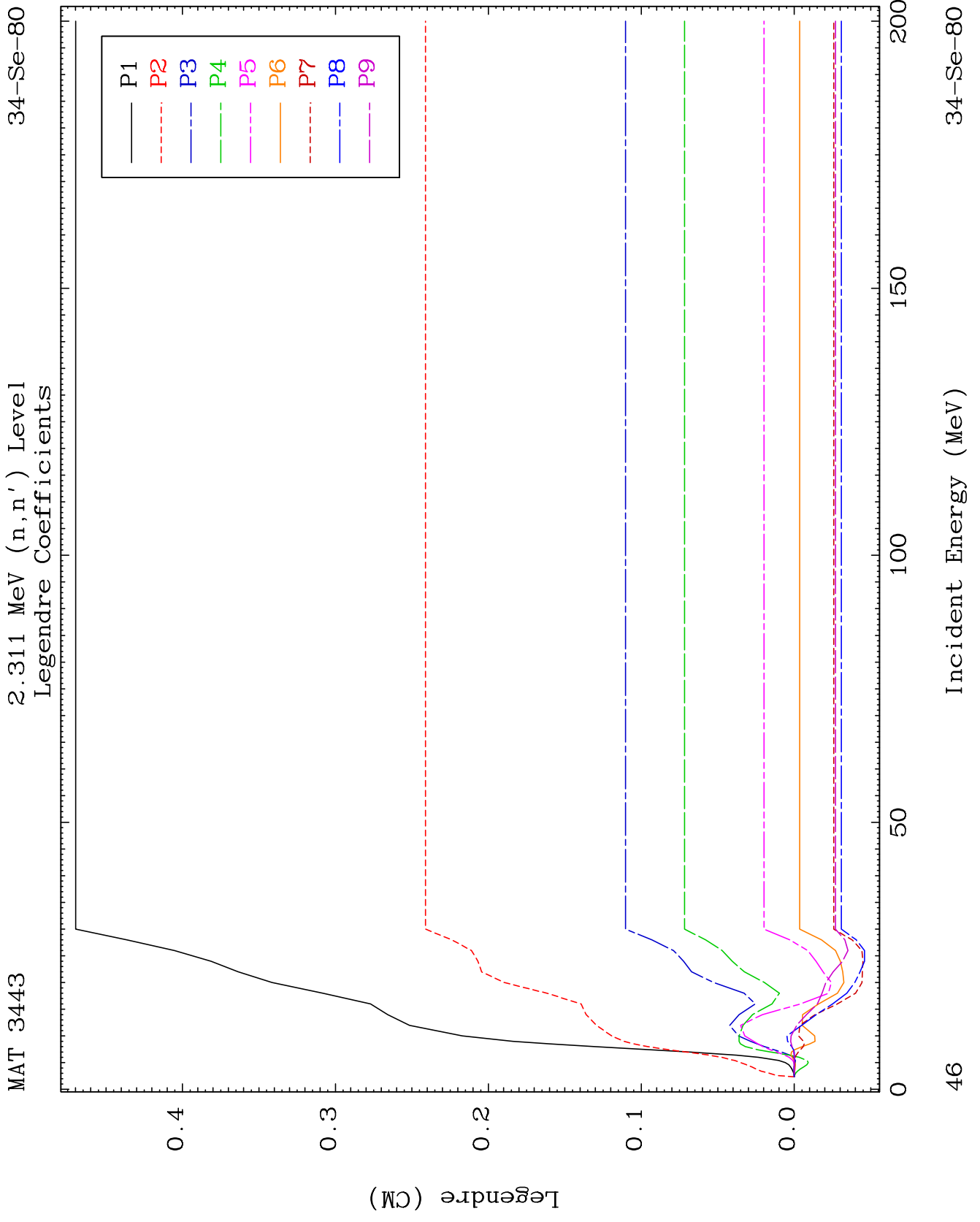


44

Incident Energy (MeV)

<sup>34</sup>Se-80

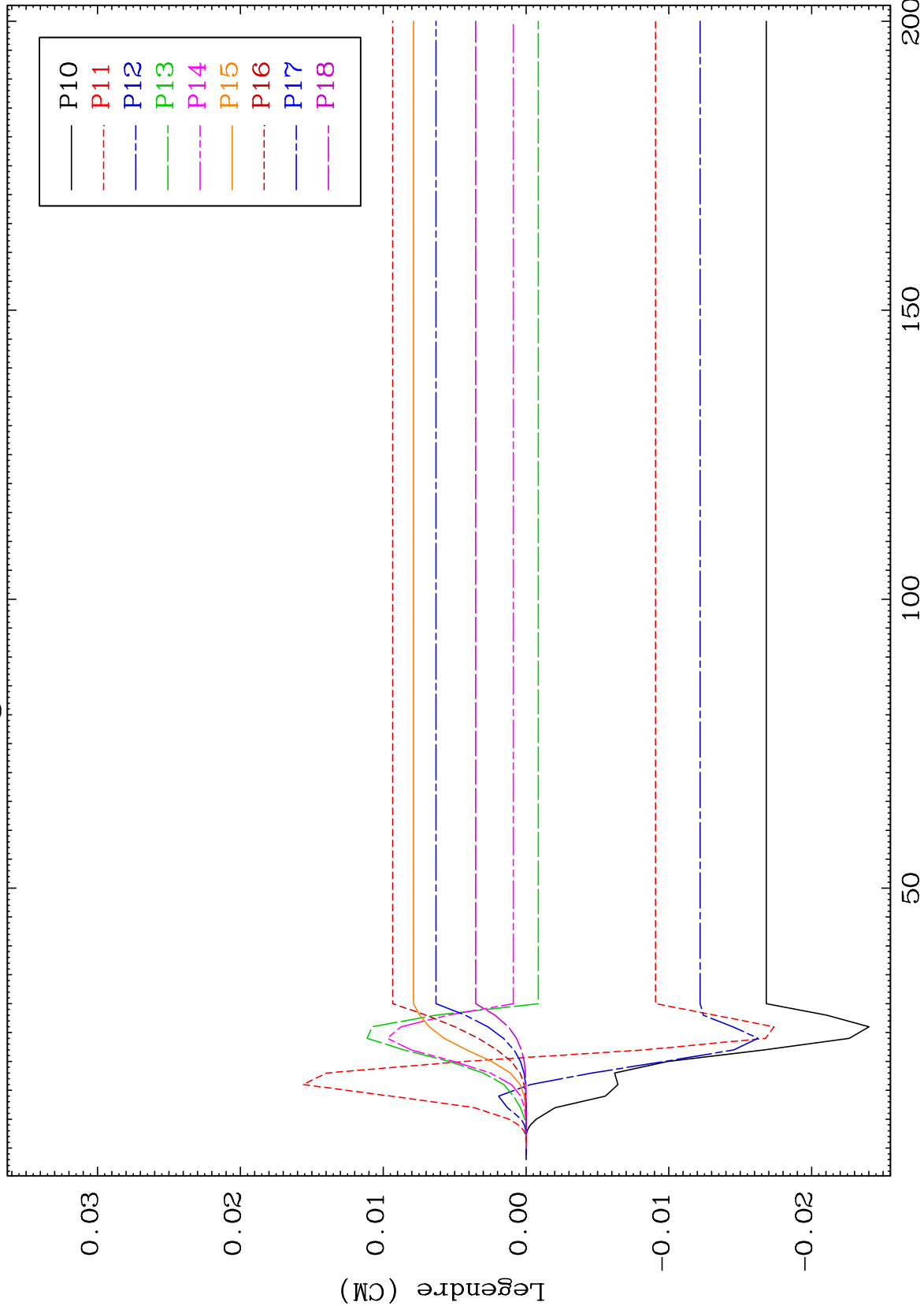




MAT 3443

2.311 MeV (n,n') Level  
Legendre Coefficients

34-Se-80



47

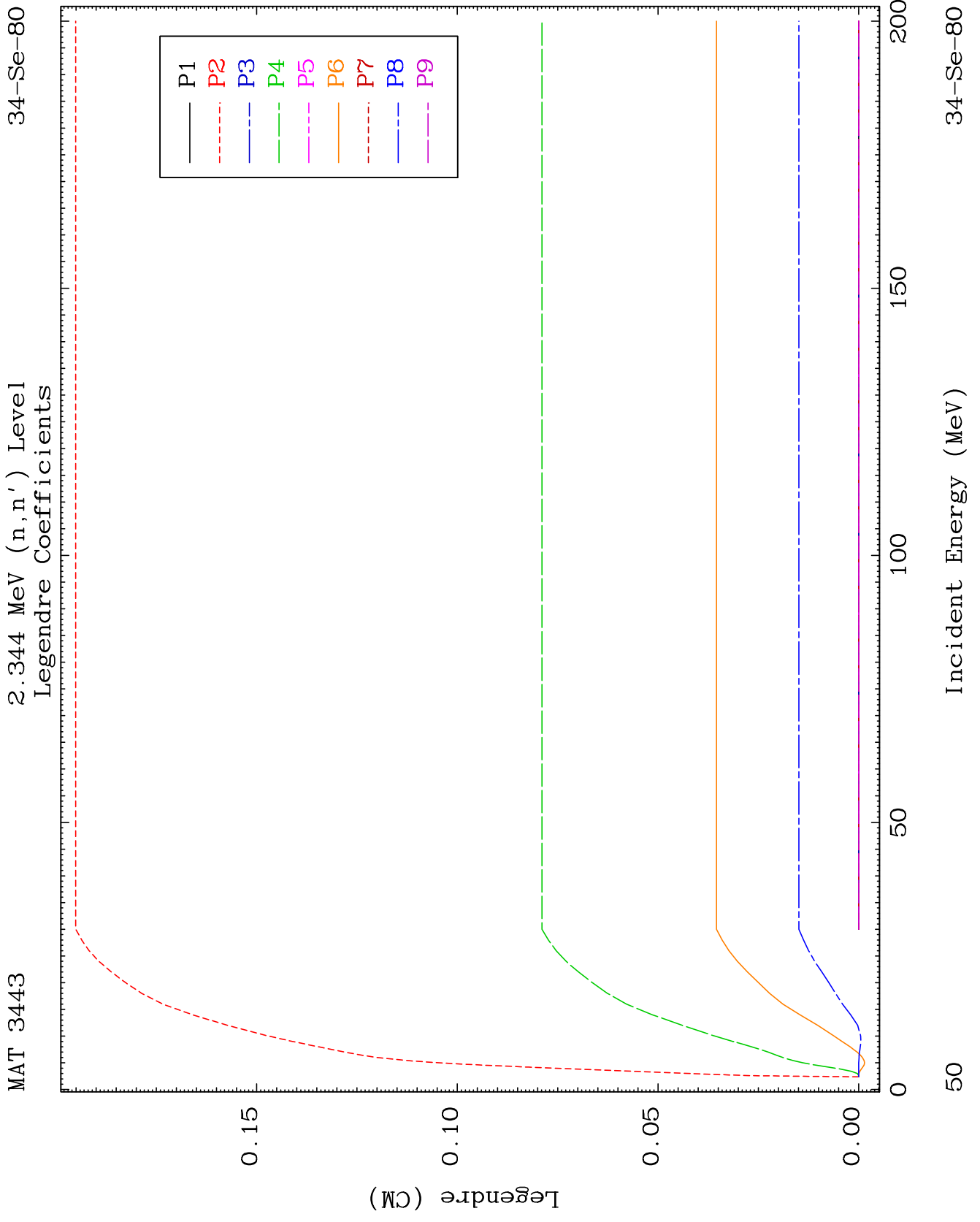
Incident Energy (MeV)

34-Se-80





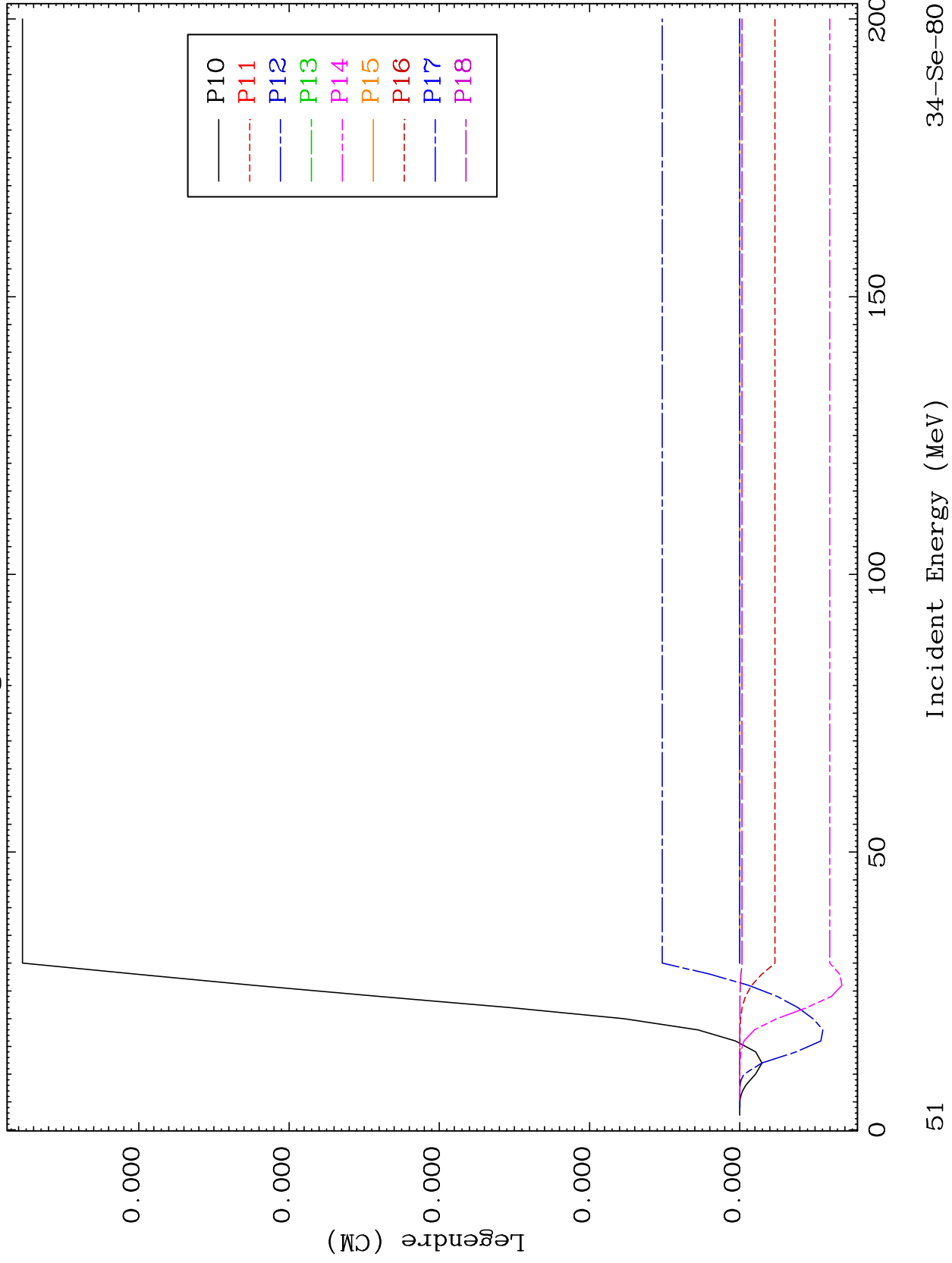




MAT 3443

2.344 MeV (n,n') Level  
Legendre Coefficients

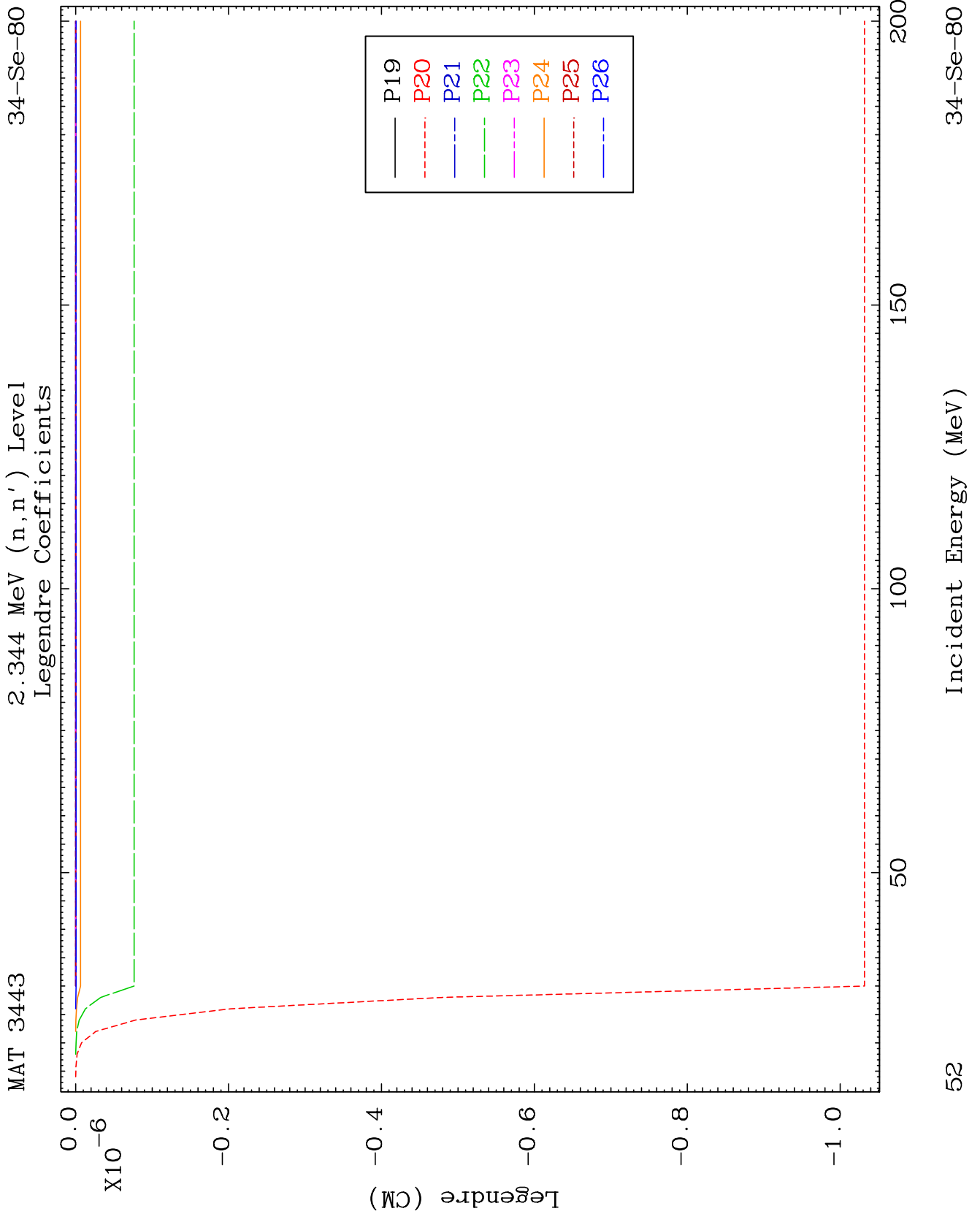
34-Se-80

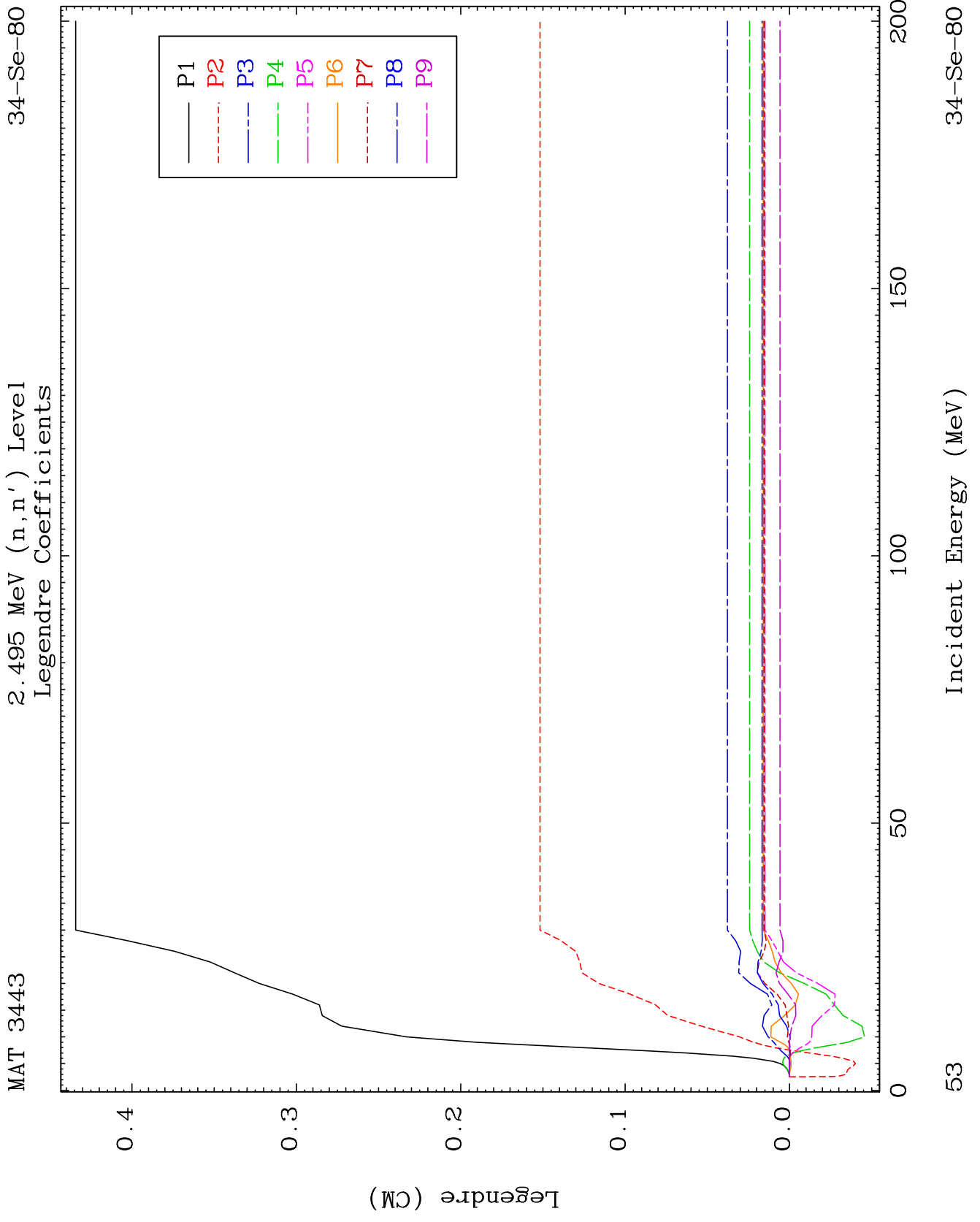


51

Incident Energy (MeV)

34-Se-80

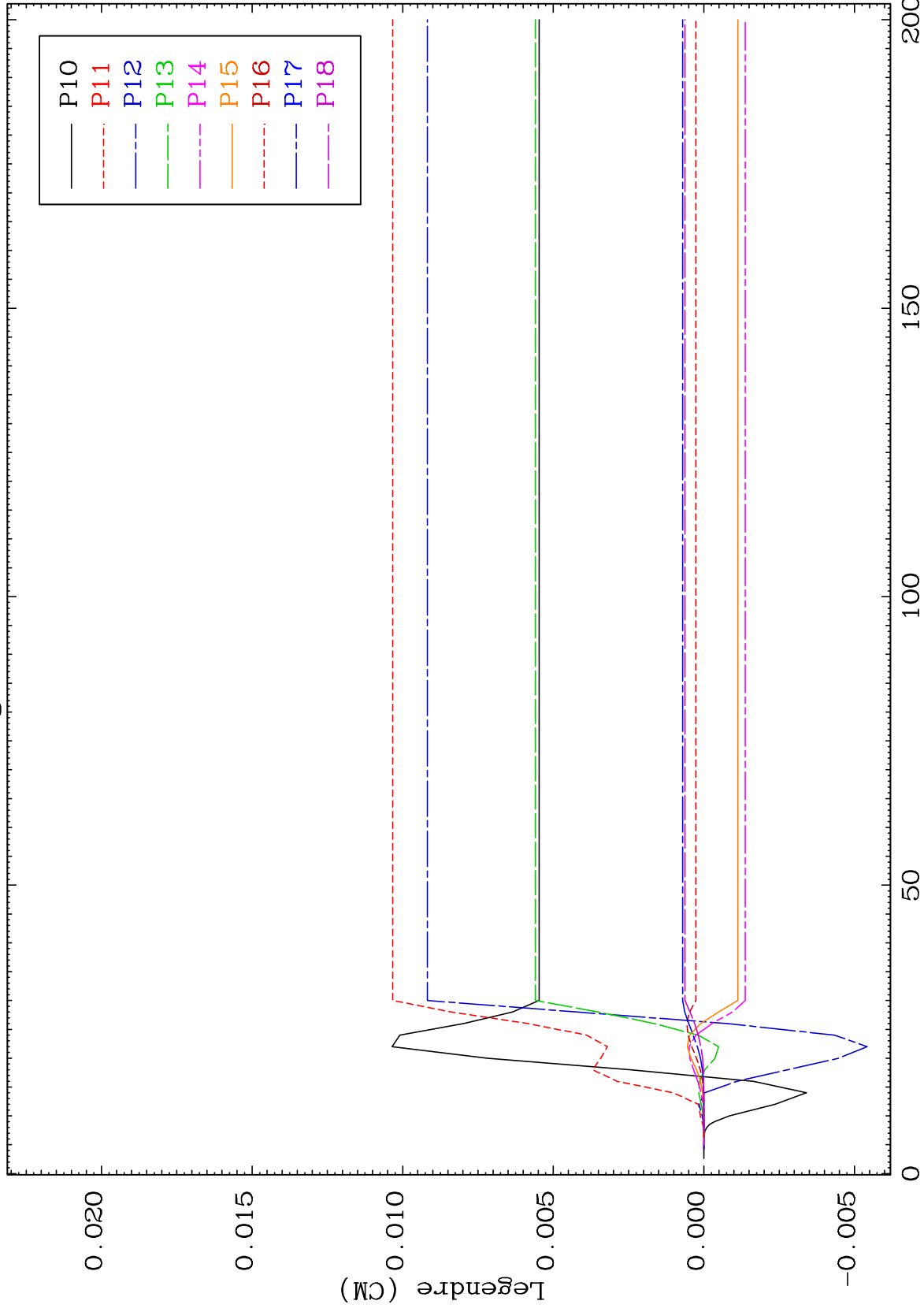




MAT 3443

2.495 MeV (n,n') Level  
Legendre Coefficients

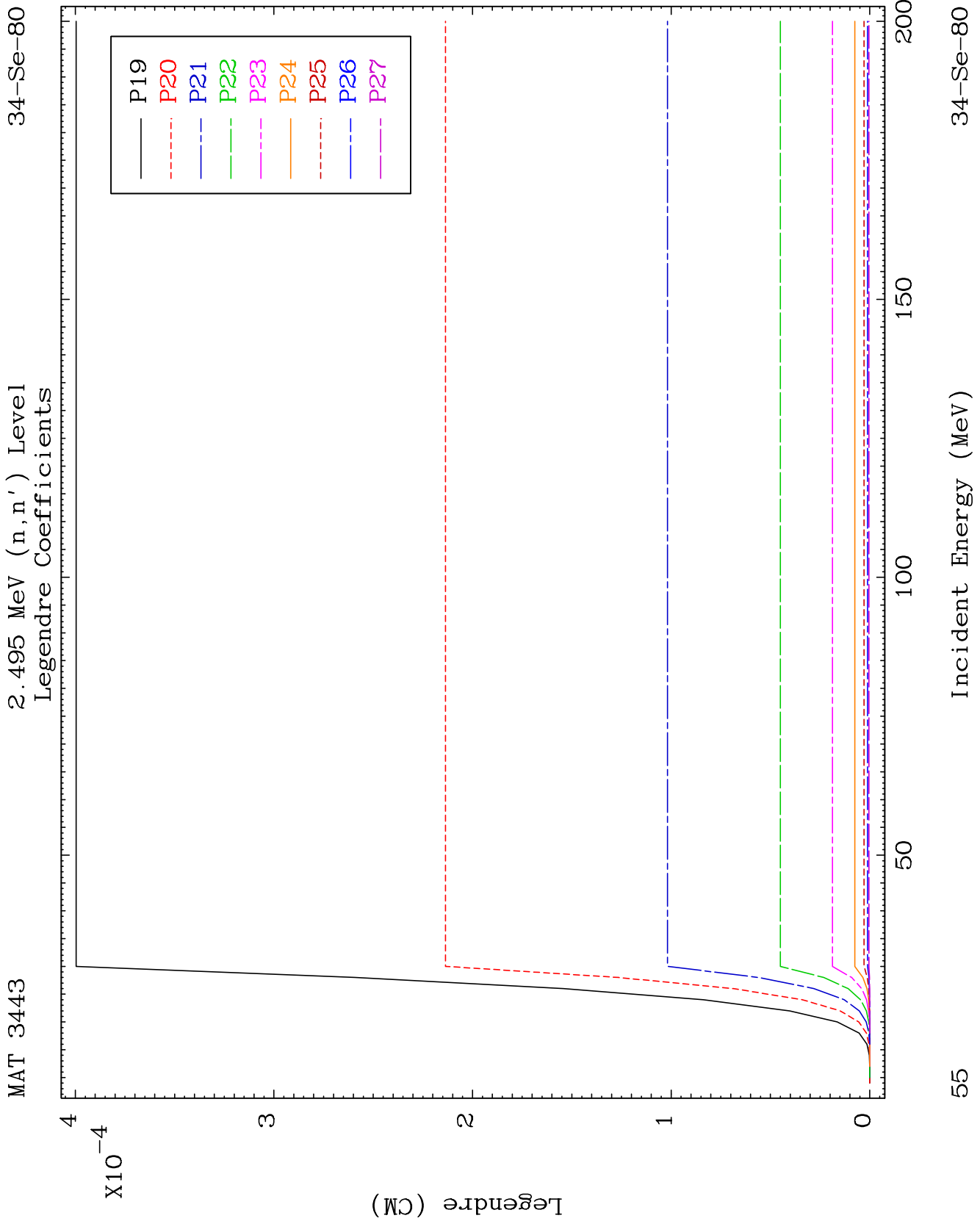
34-Se-80



54

Incident Energy (MeV)

34-Se-80

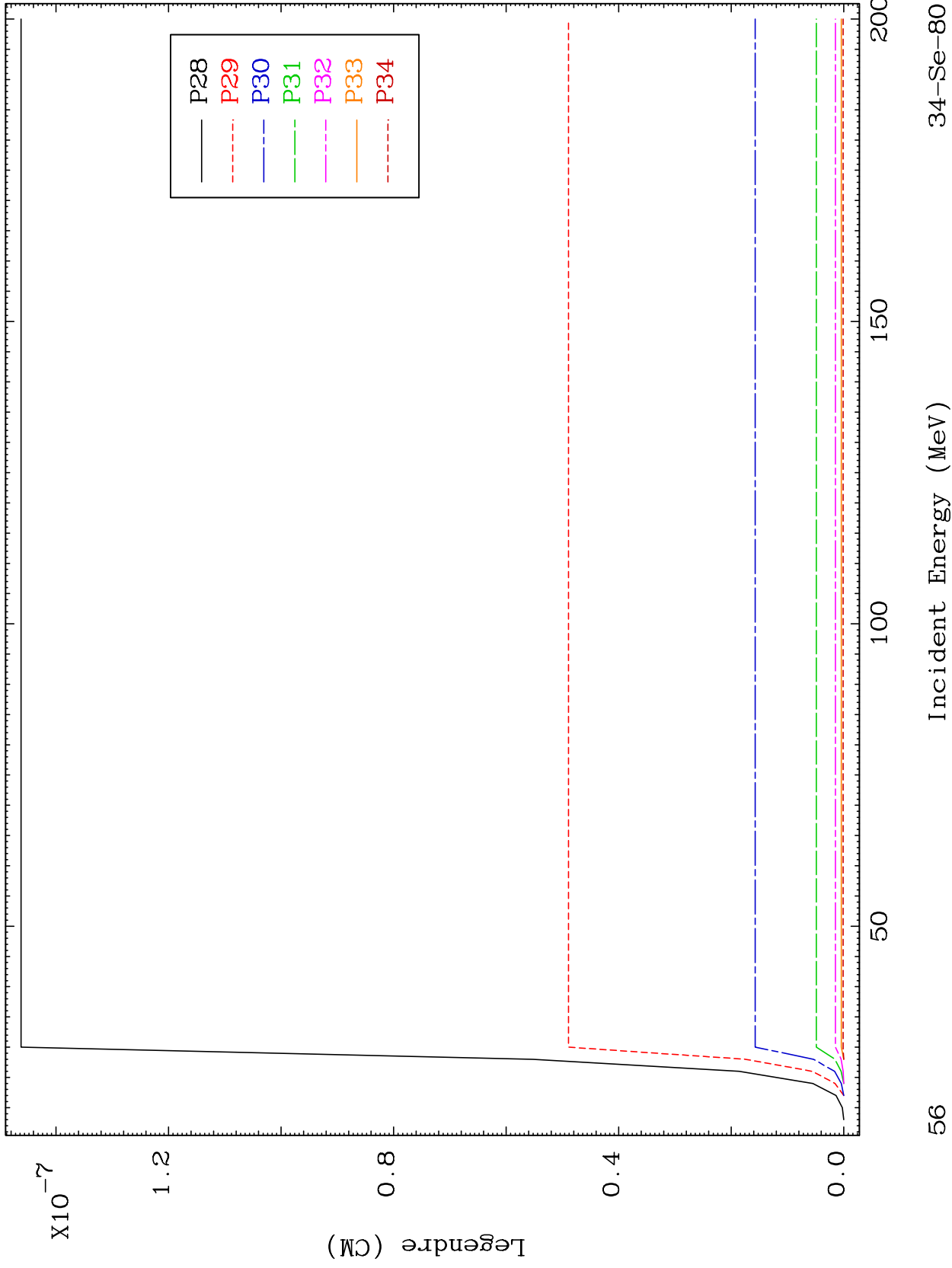




MAT 3443

2.495 MeV (n,n') Level  
Legendre Coefficients

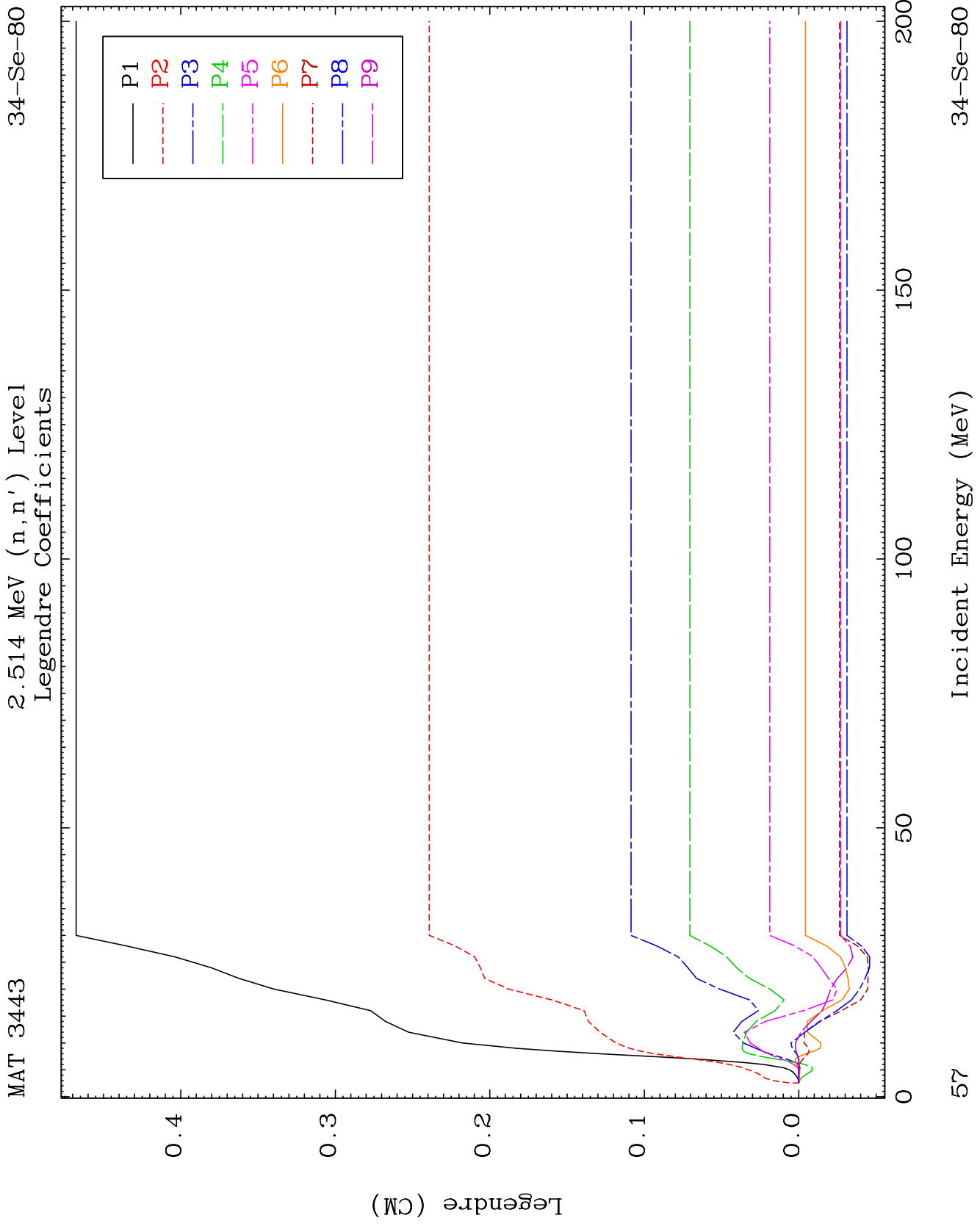
34-Se-80



56

Incident Energy (MeV)

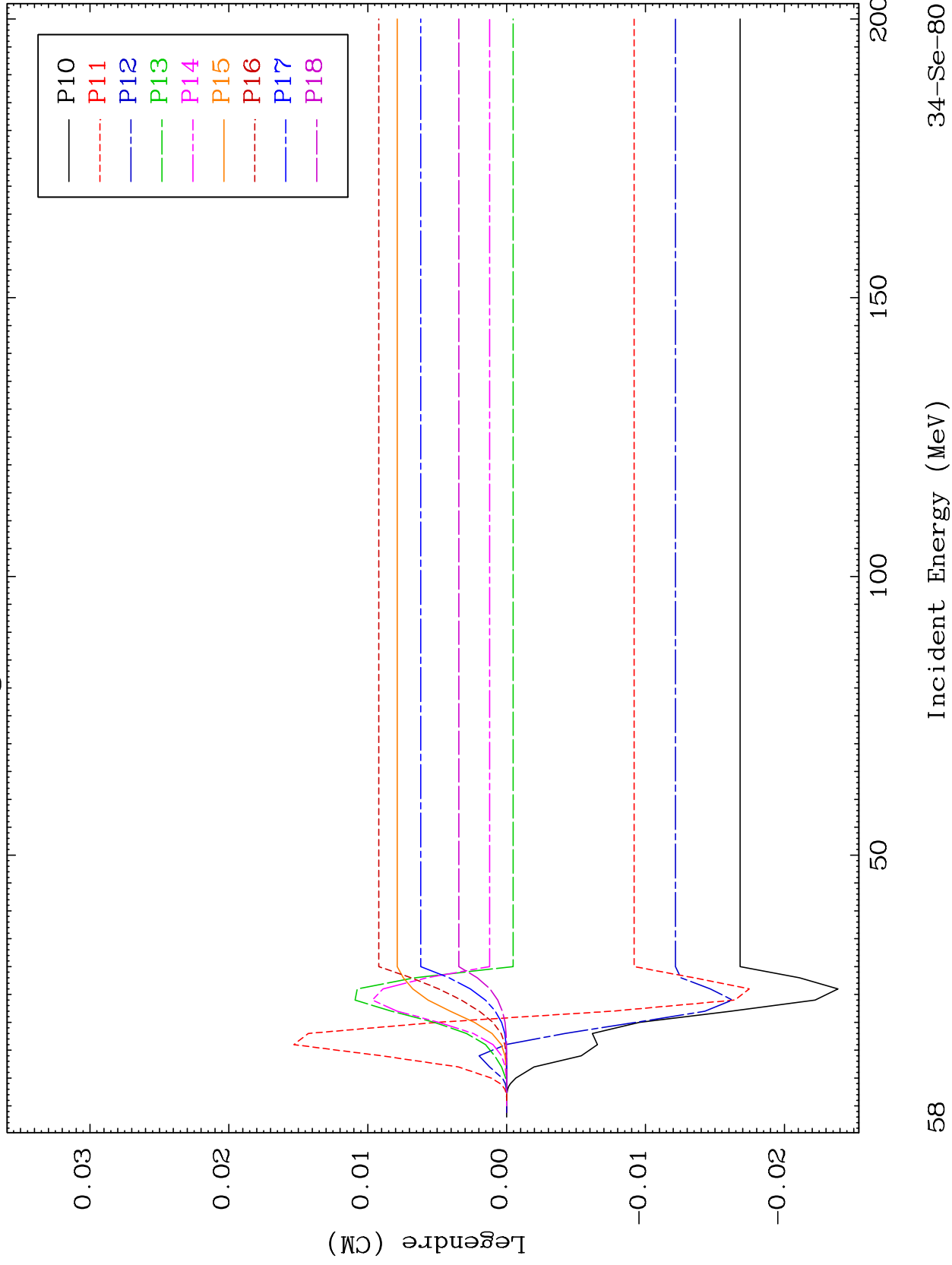
34-Se-80



MAT 3443

2.514 MeV (n,n') Level  
Legendre Coefficients

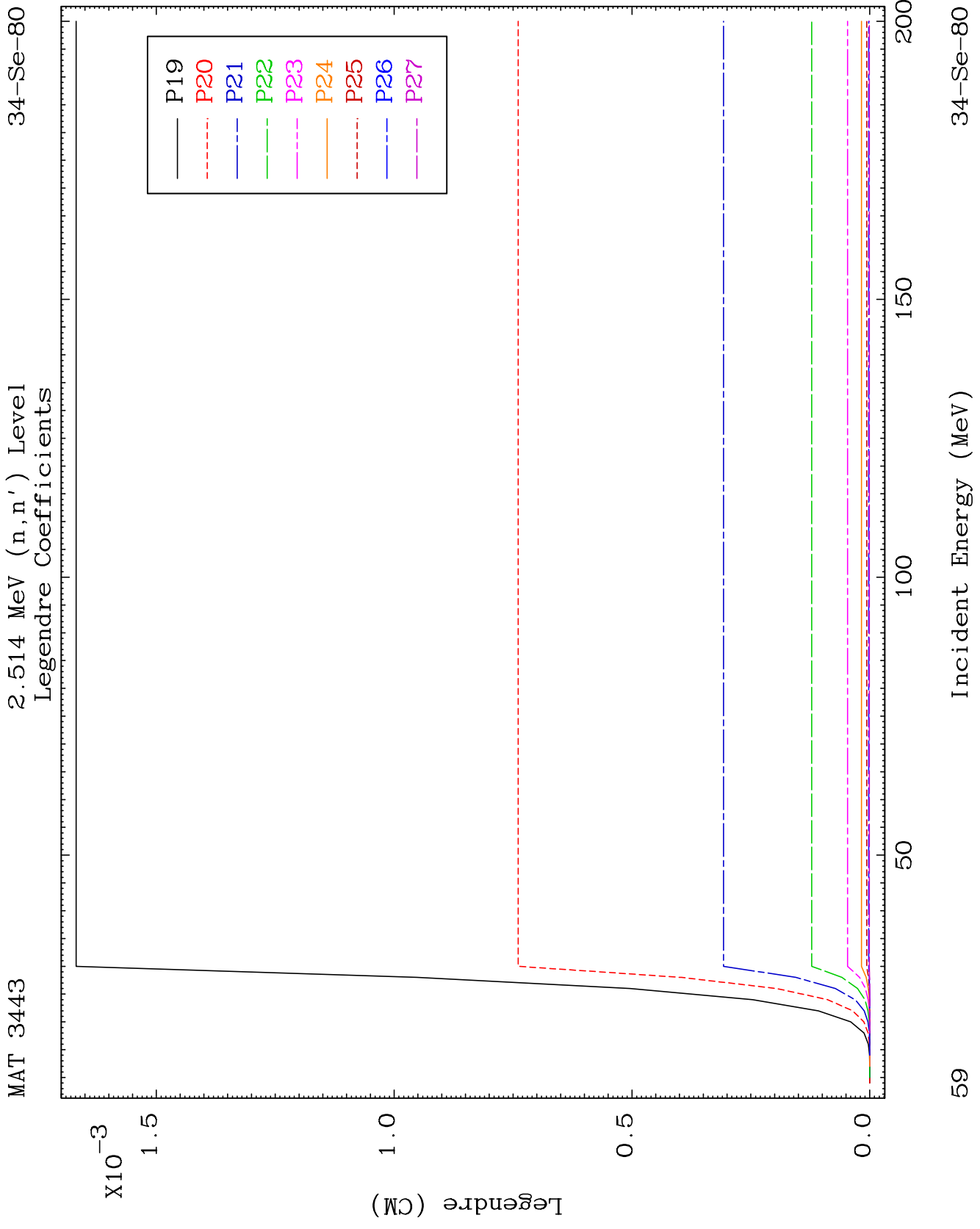
34-Se-80

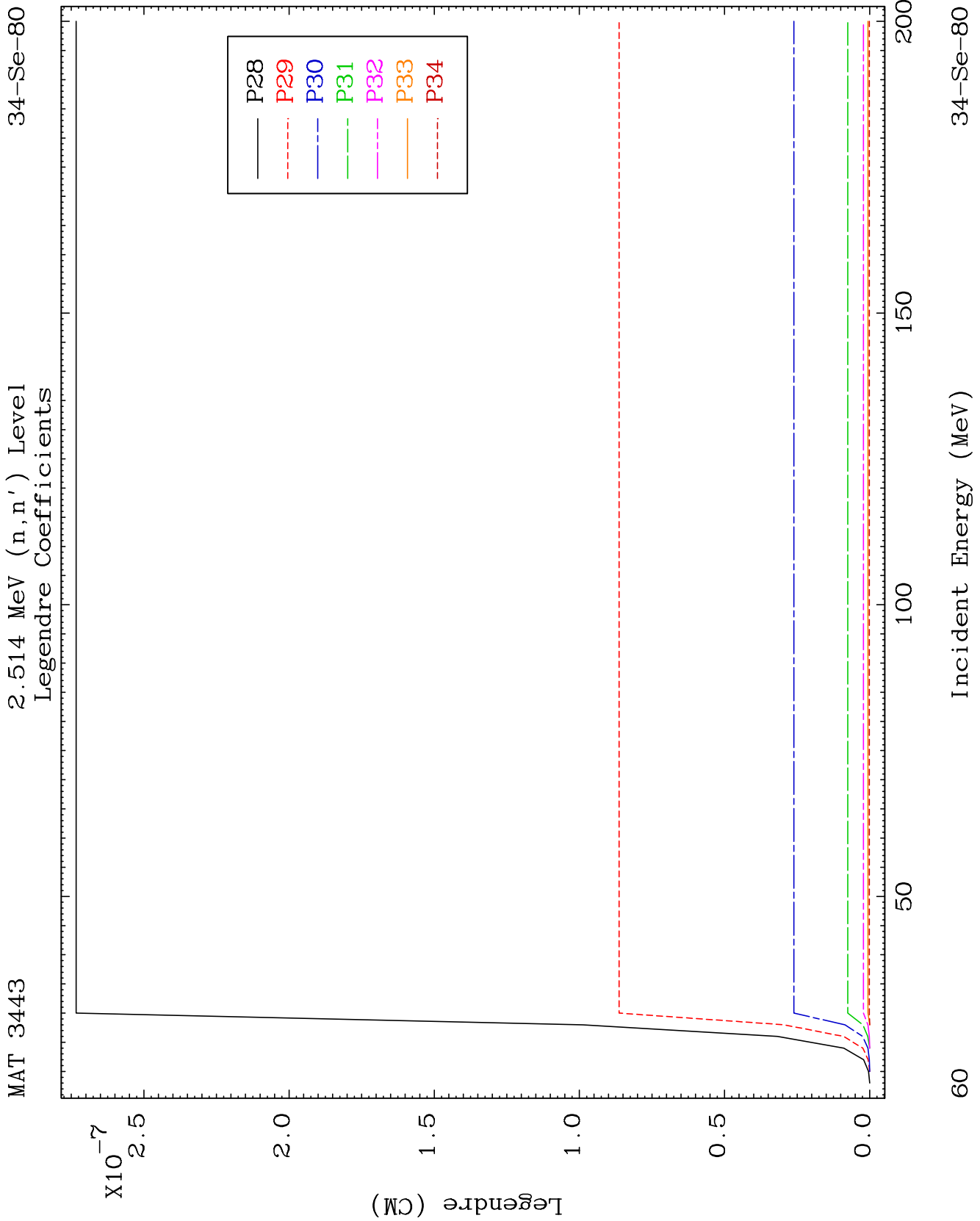


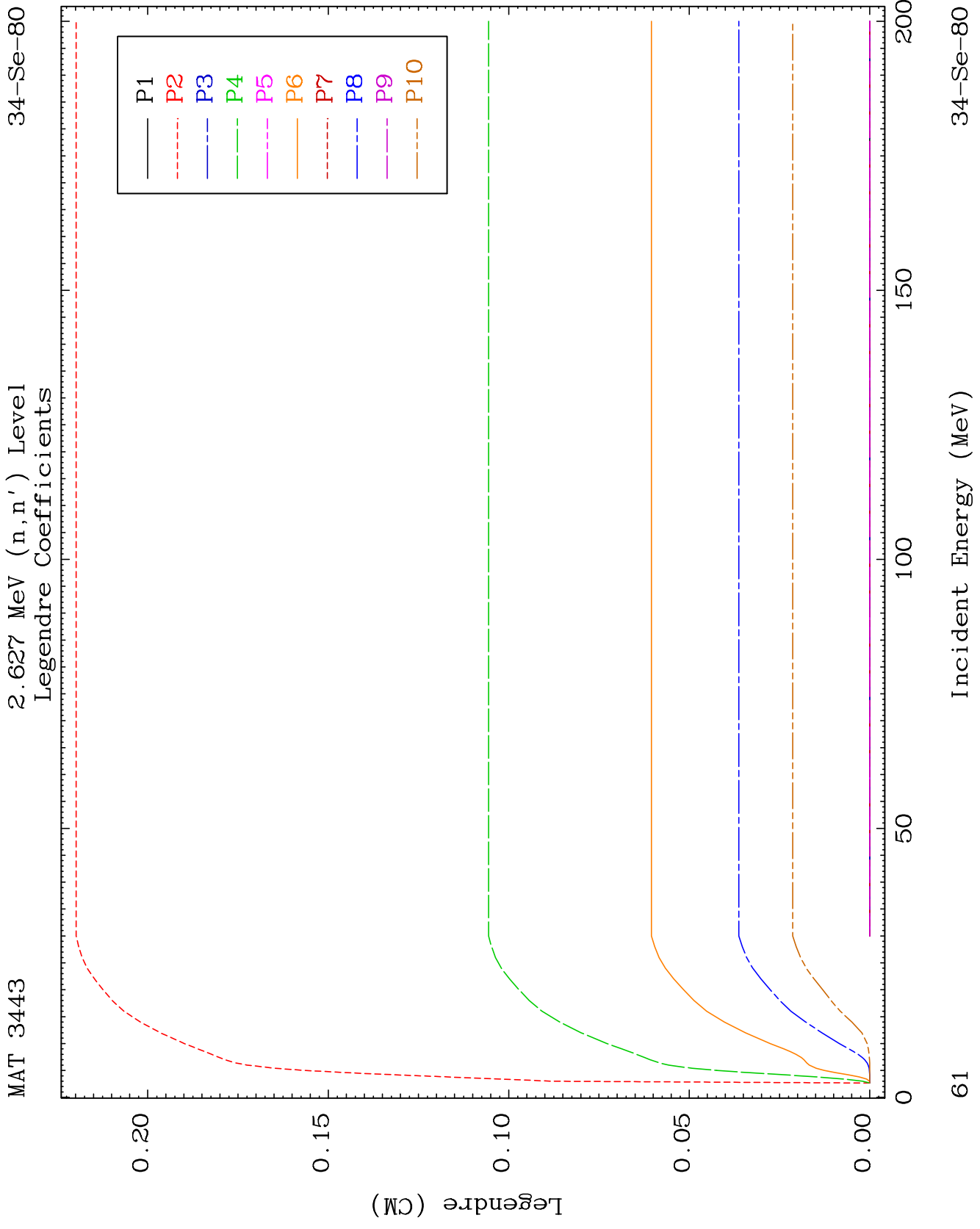
58

Incident Energy (MeV)

34-Se-80



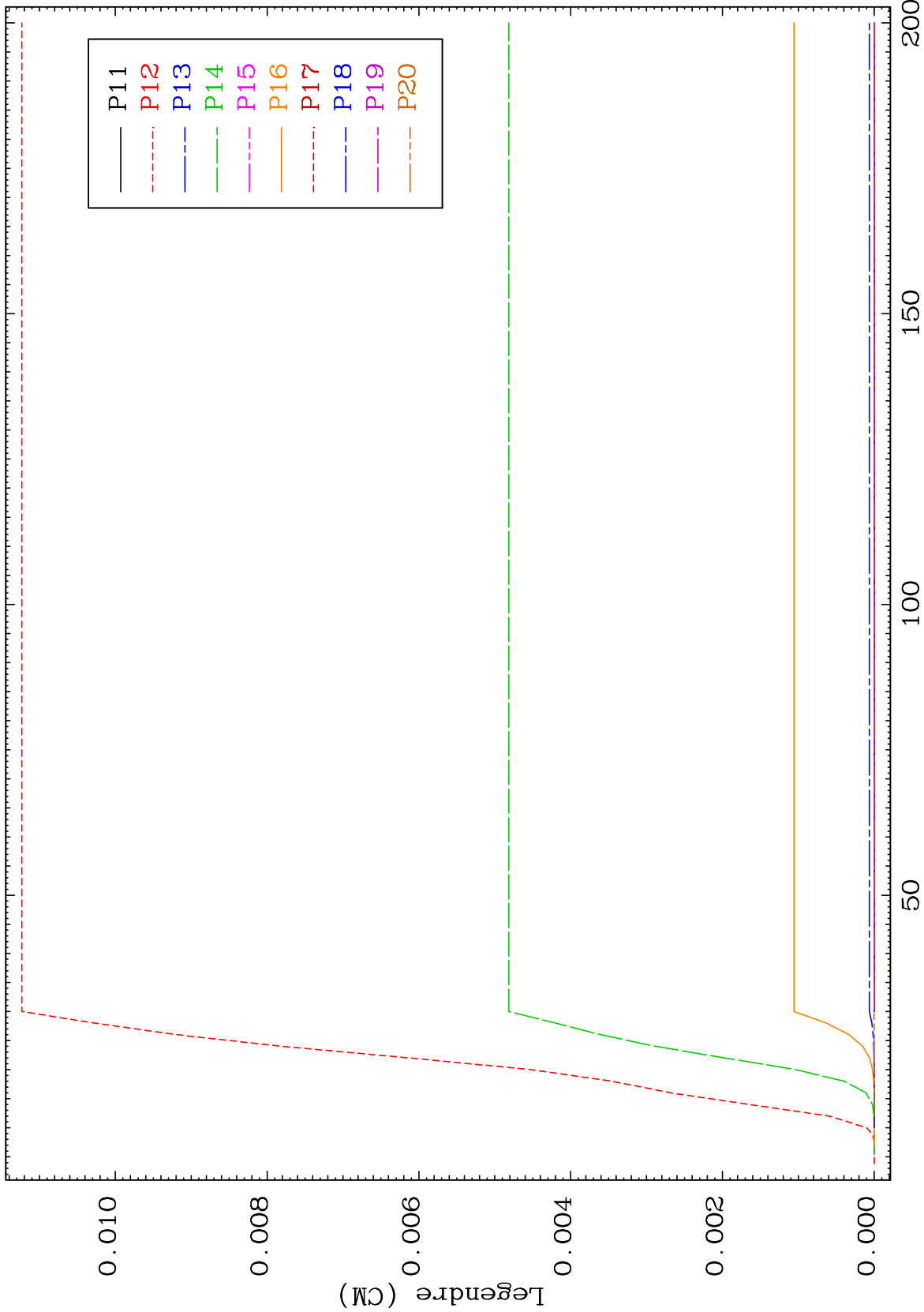




MAT 3443

2.627 MeV (n,n') Level  
Legendre Coefficients

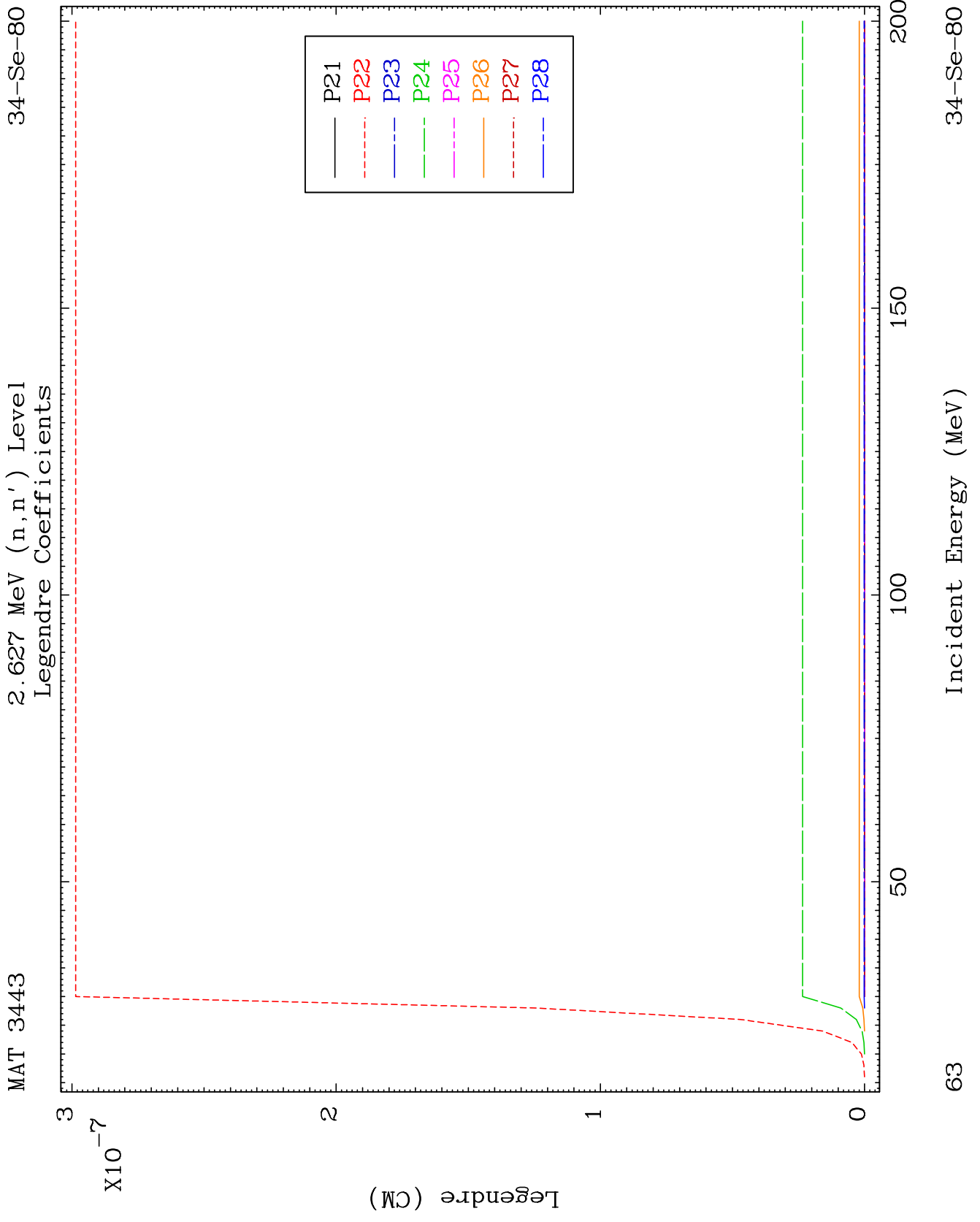
34-Se-80



62

Incident Energy (MeV)

34-Se-80

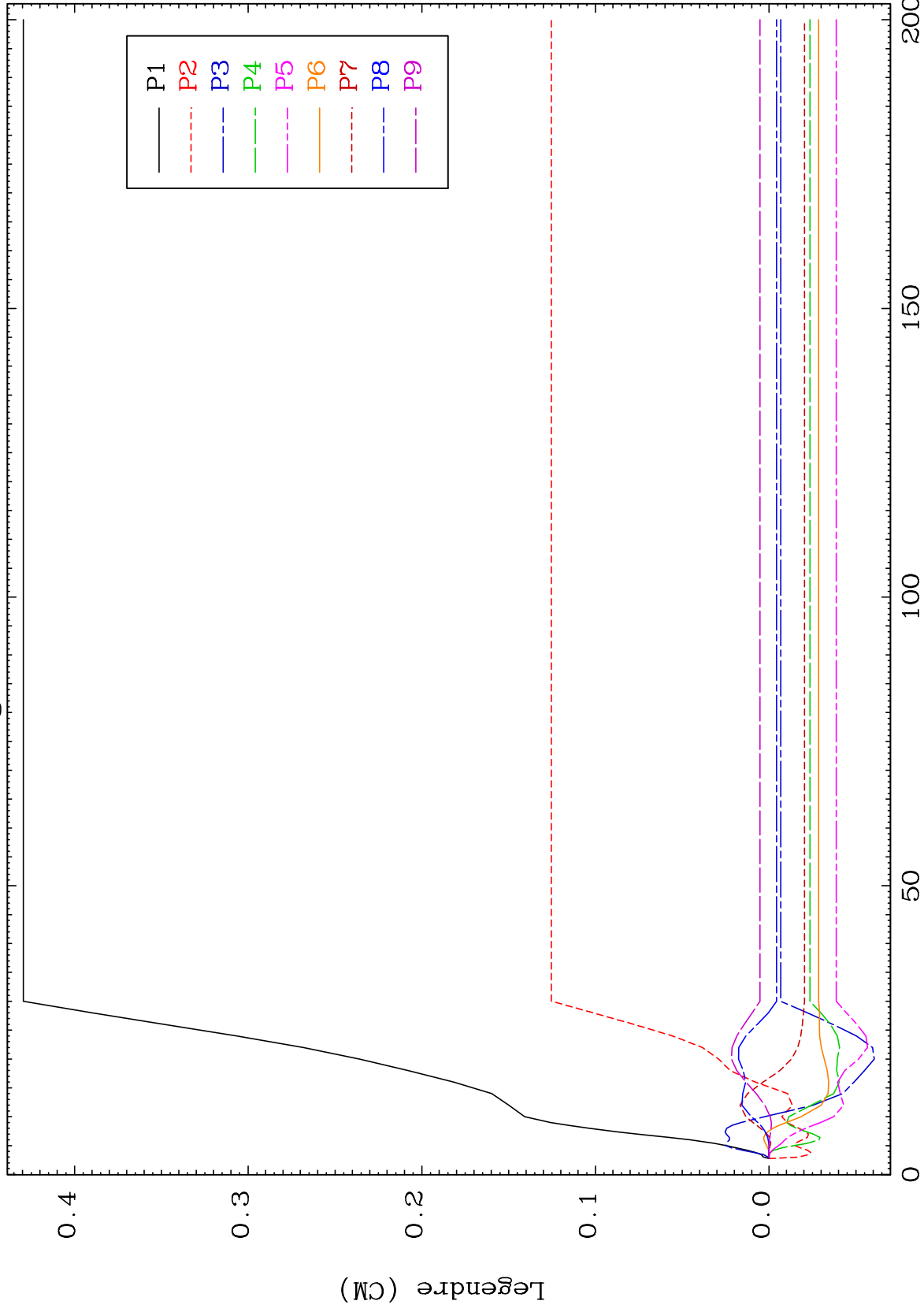




MAT 3443

2.717 MeV (n,n') Level  
Legendre Coefficients

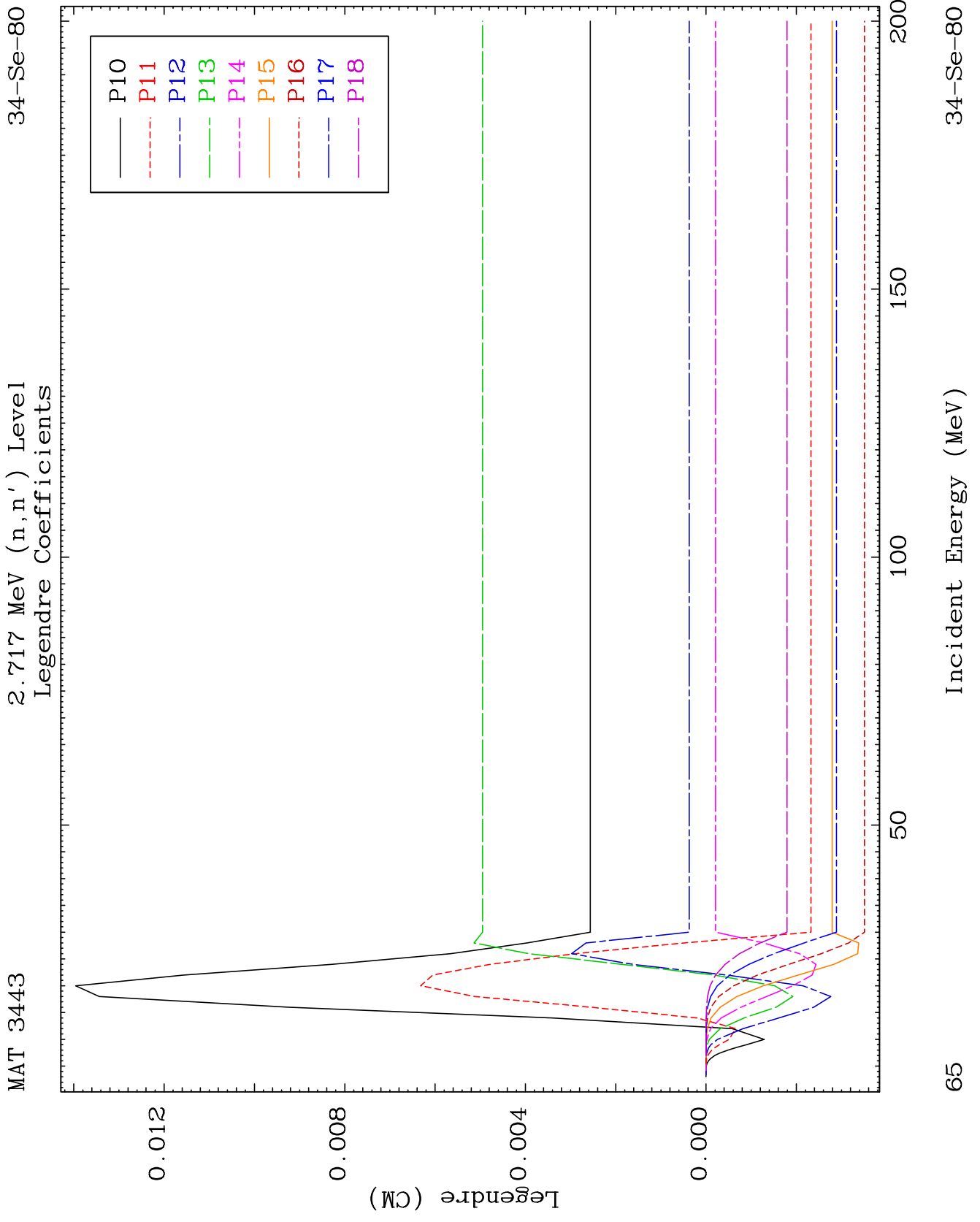
<sup>34</sup>Se-80

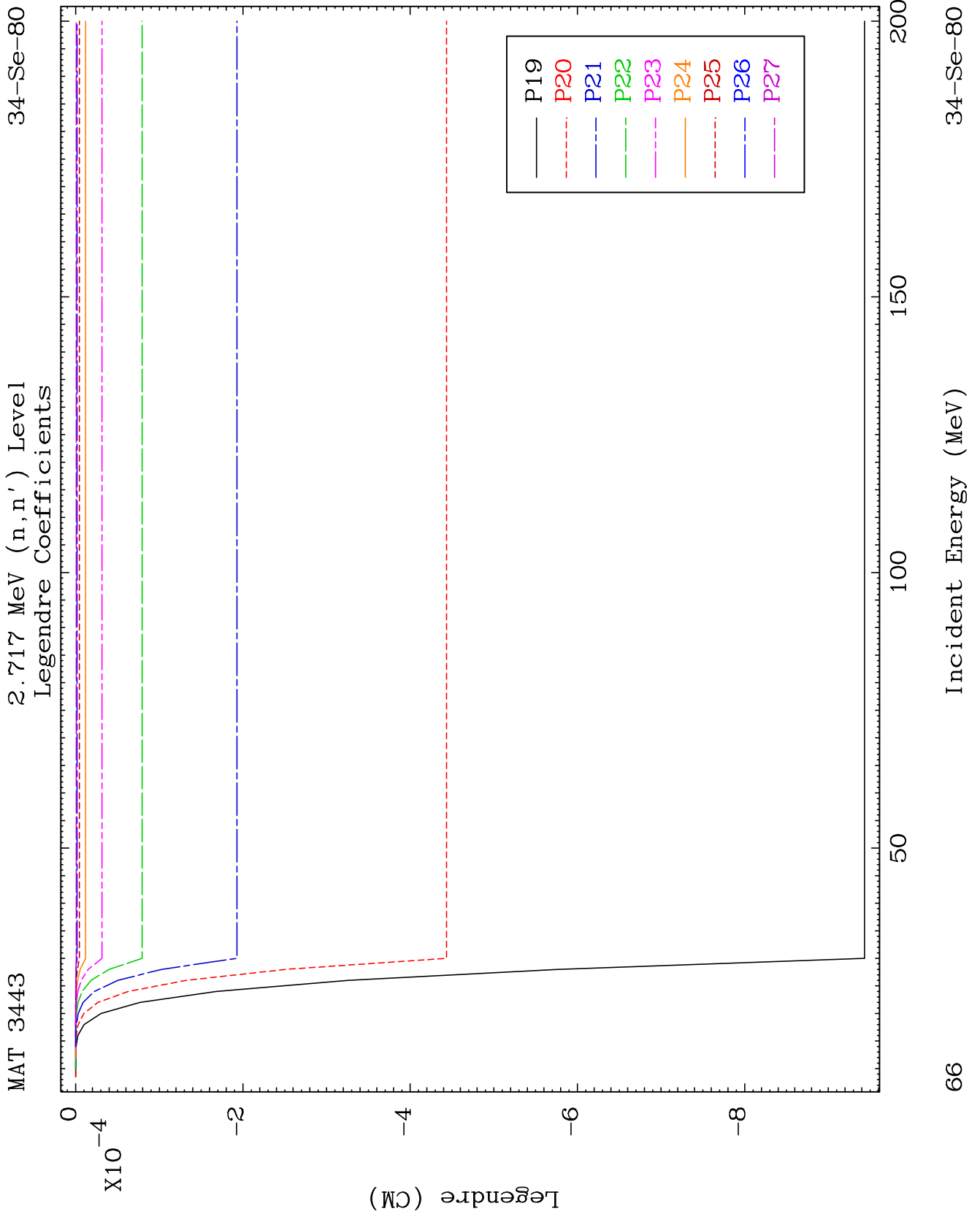


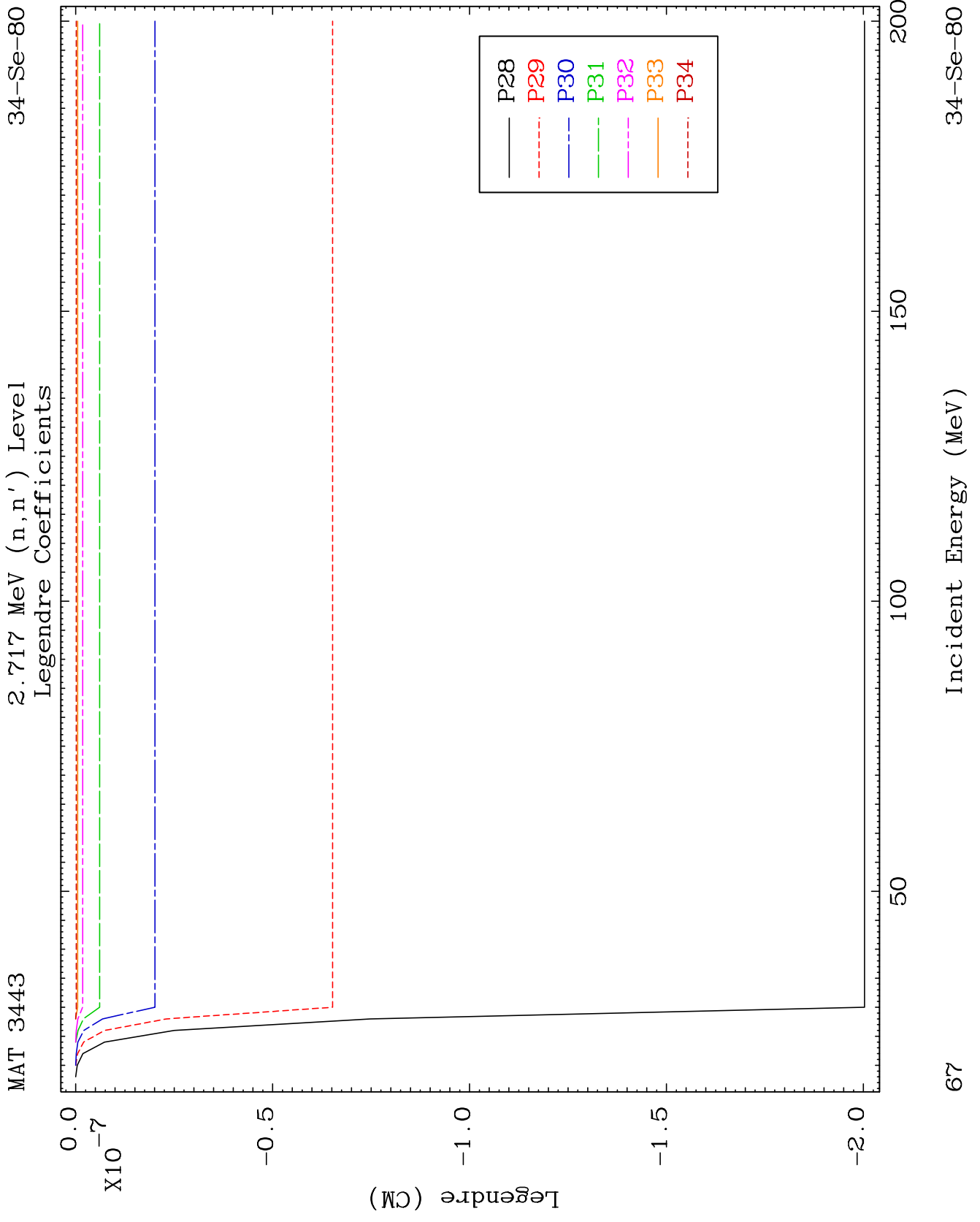
64

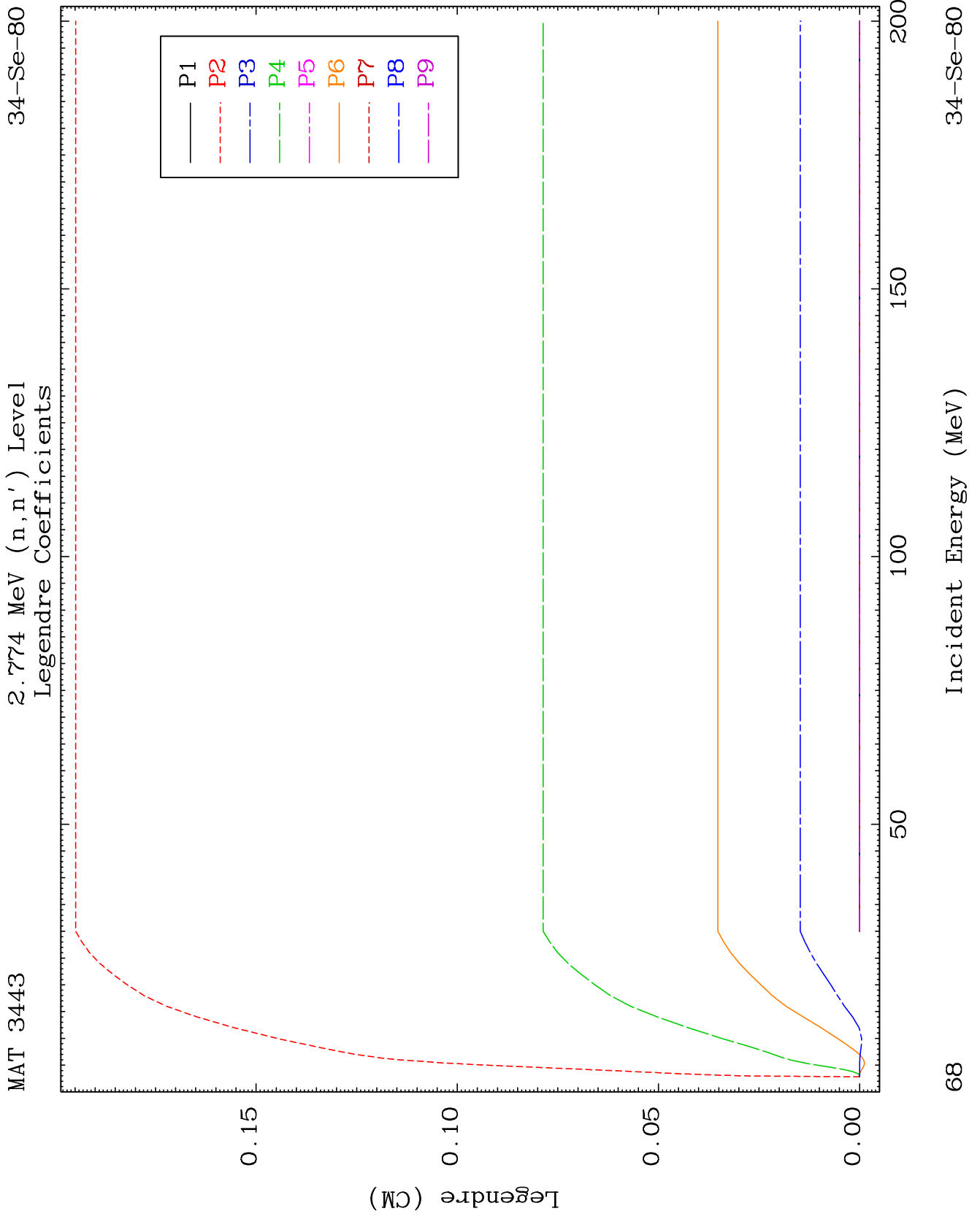
Incident Energy (MeV)

<sup>34</sup>Se-80





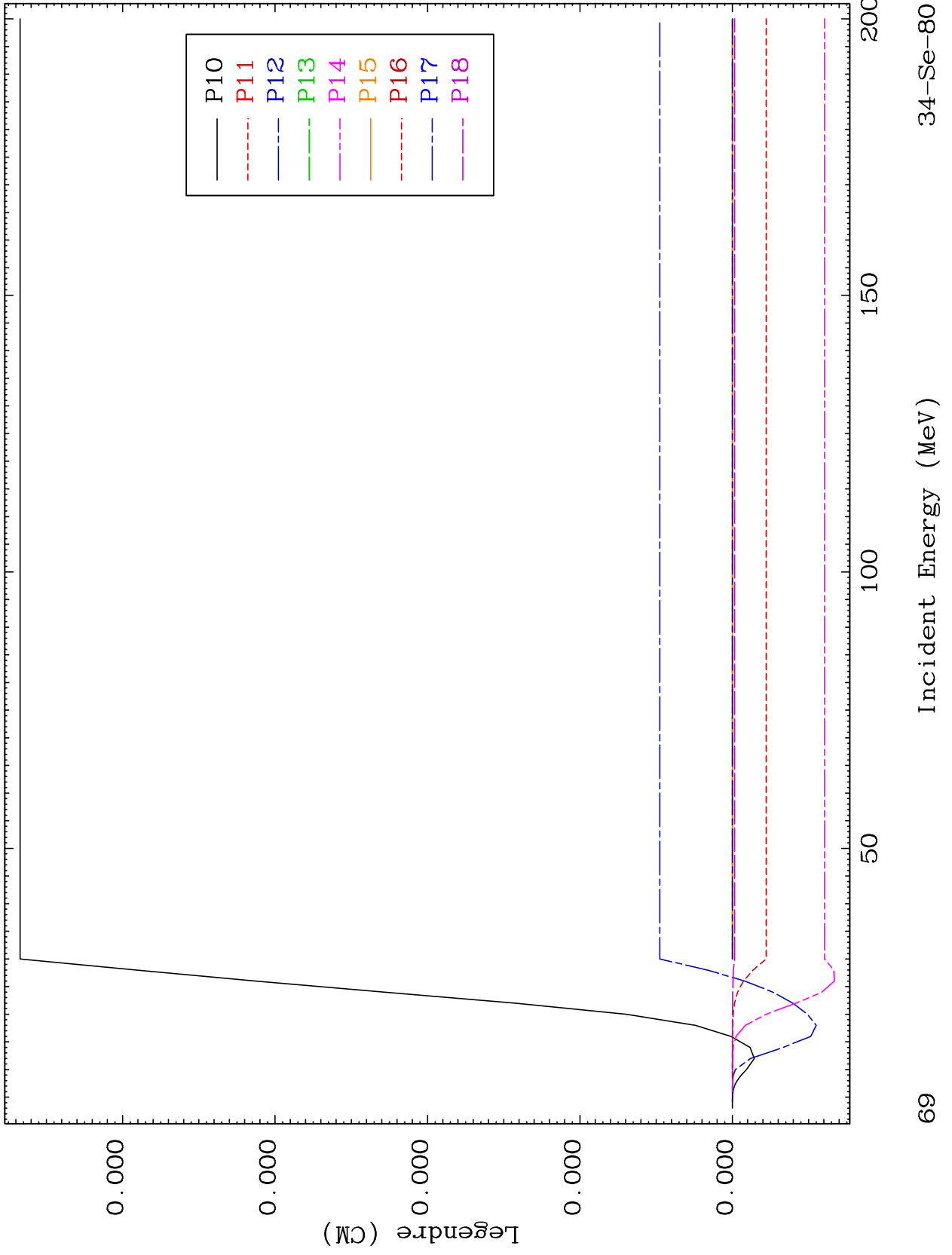


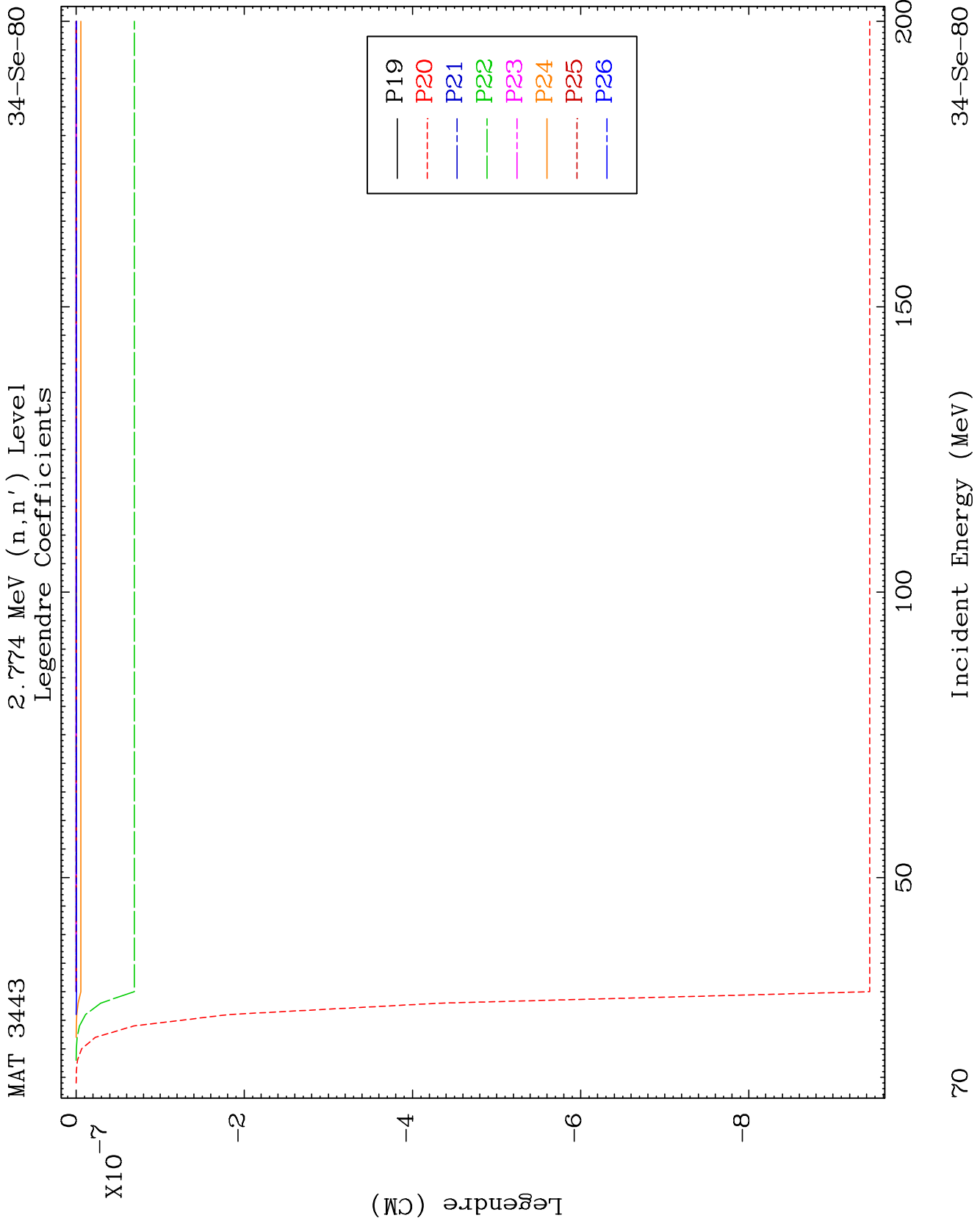


MAT 3443

2.774 MeV (n,n') Level  
Legendre Coefficients

<sup>34</sup>Se-80

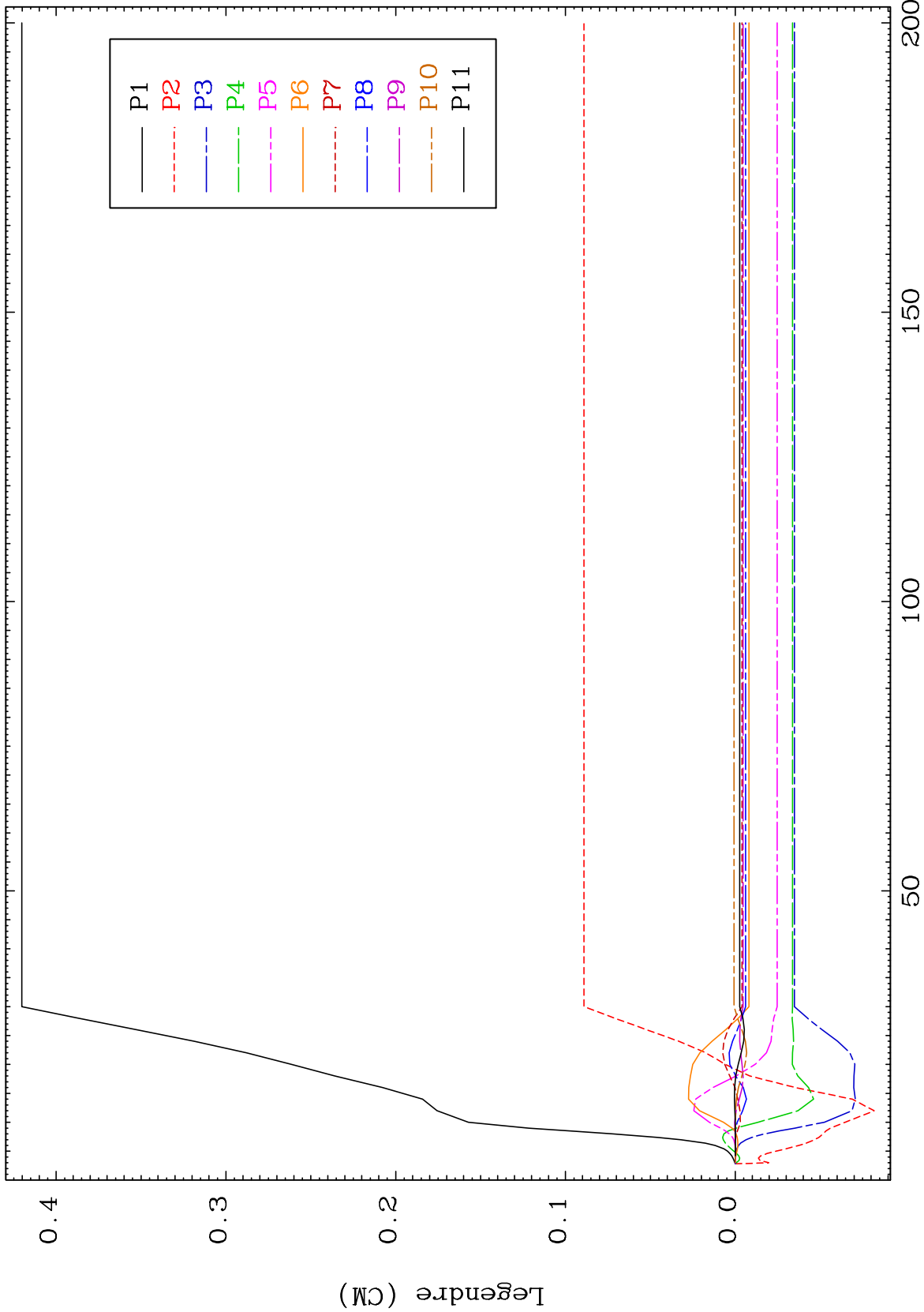




MAT 3443

2.787 MeV (n,n') Level  
Legendre Coefficients

34-Se-80

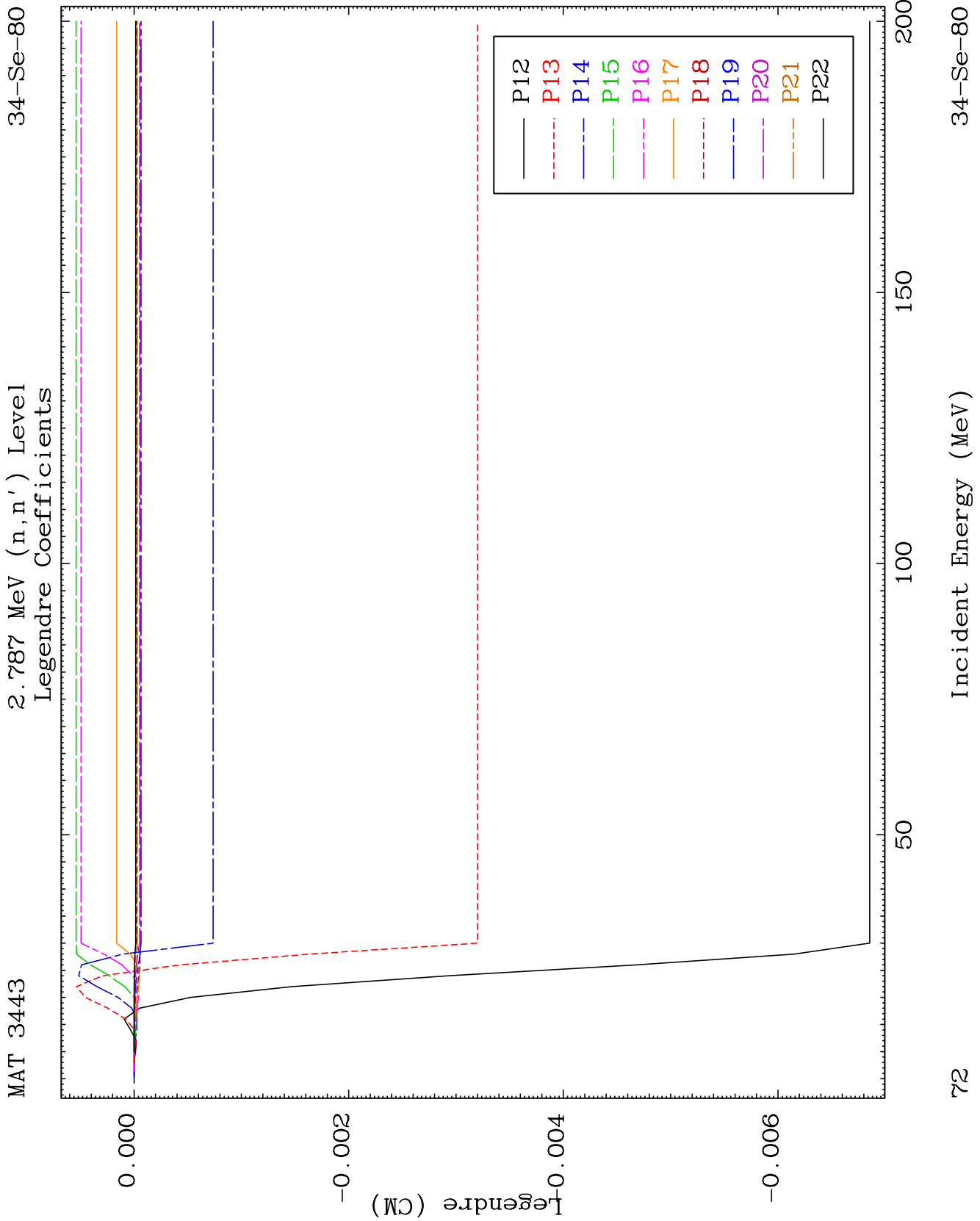


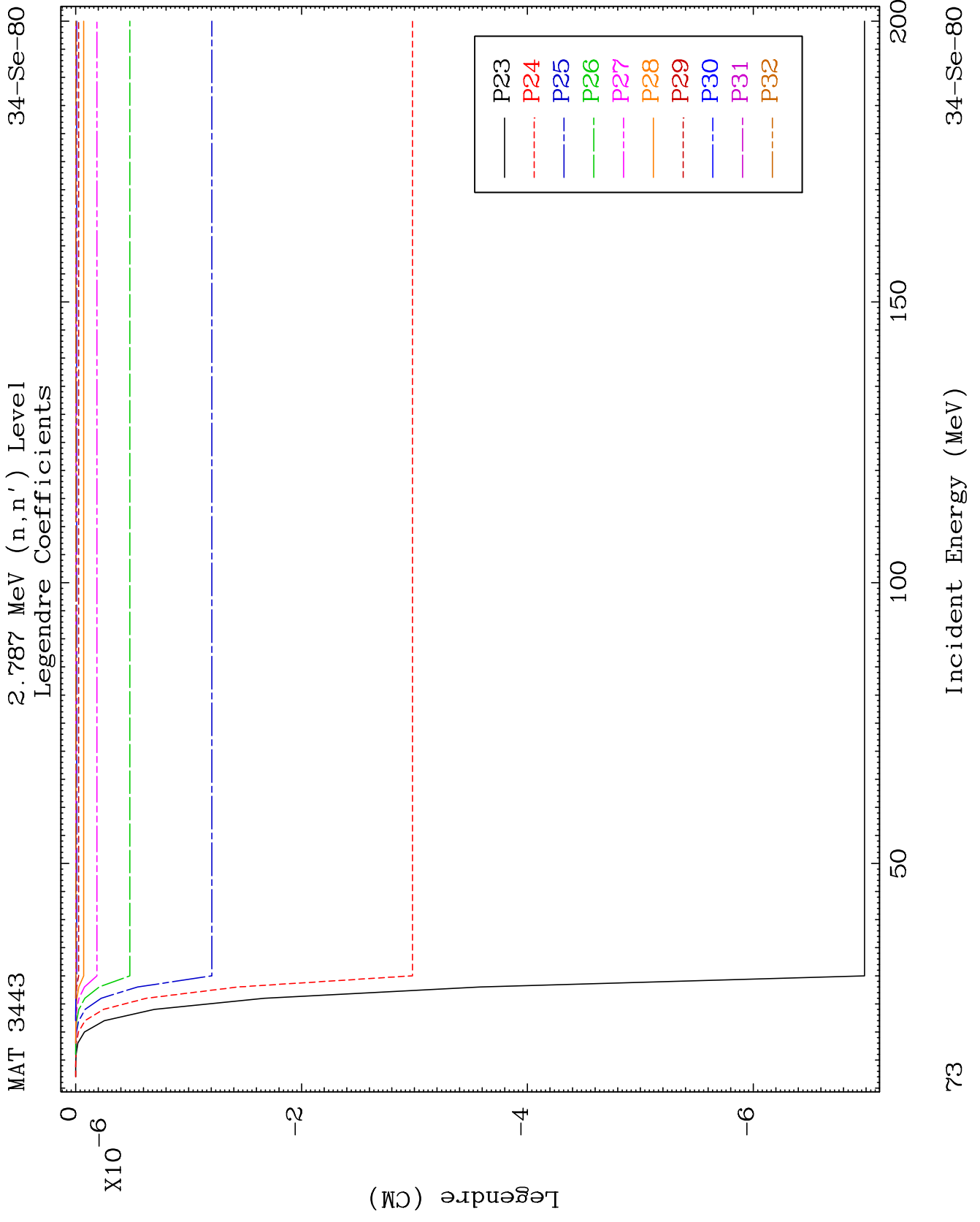
71

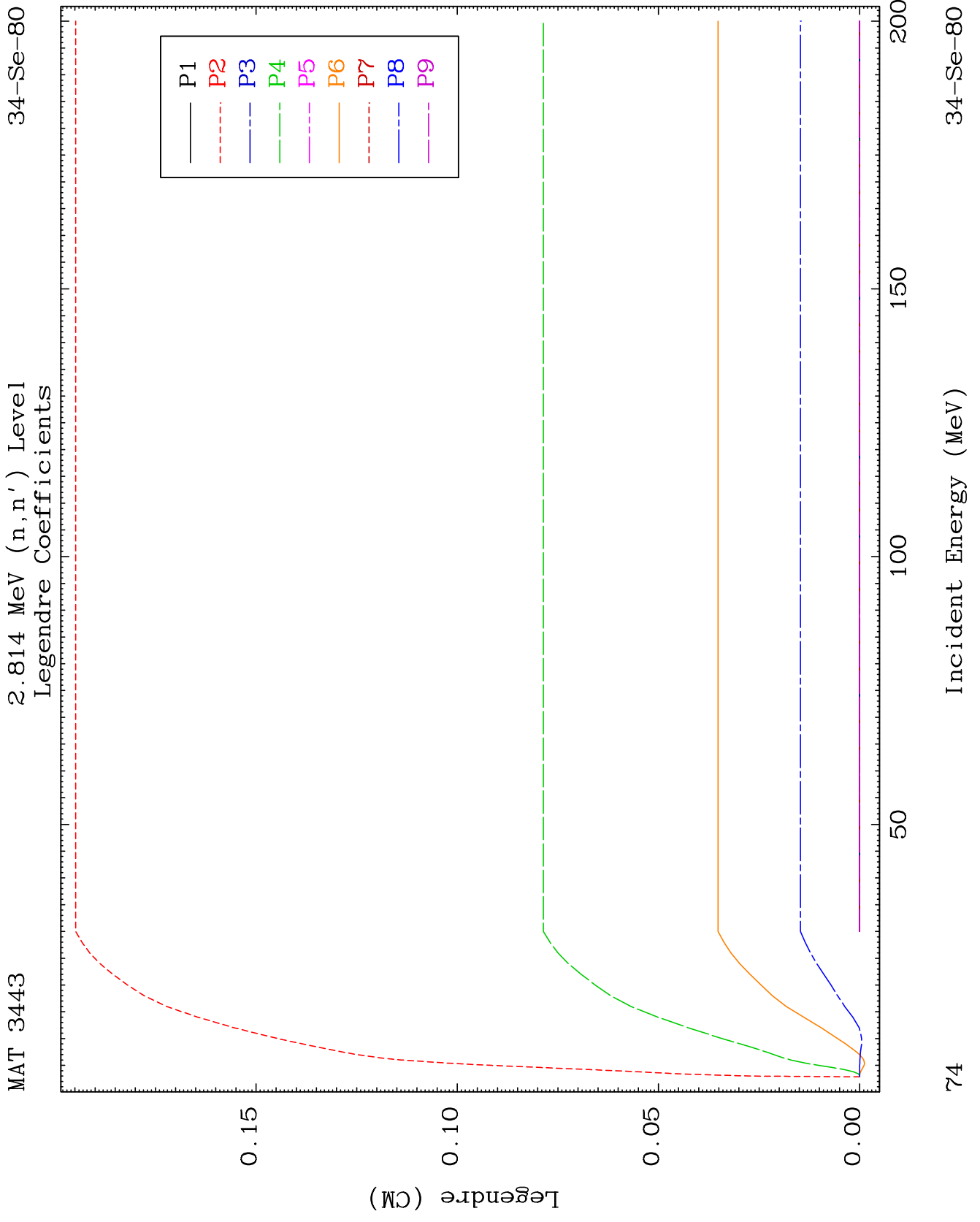
Incident Energy (MeV)

34-Se-80





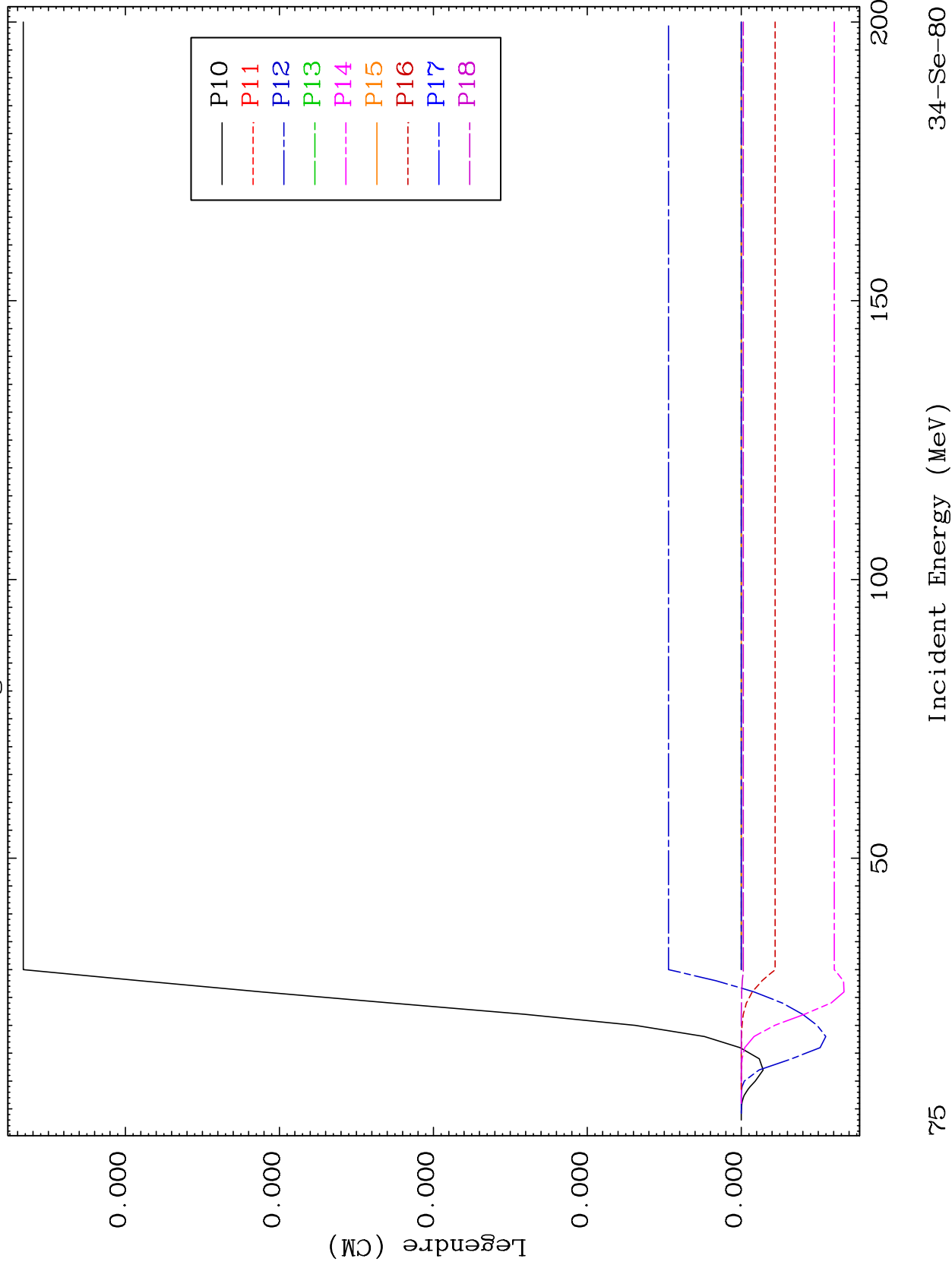




MAT 3443

2.814 MeV (n,n') Level  
Legendre Coefficients

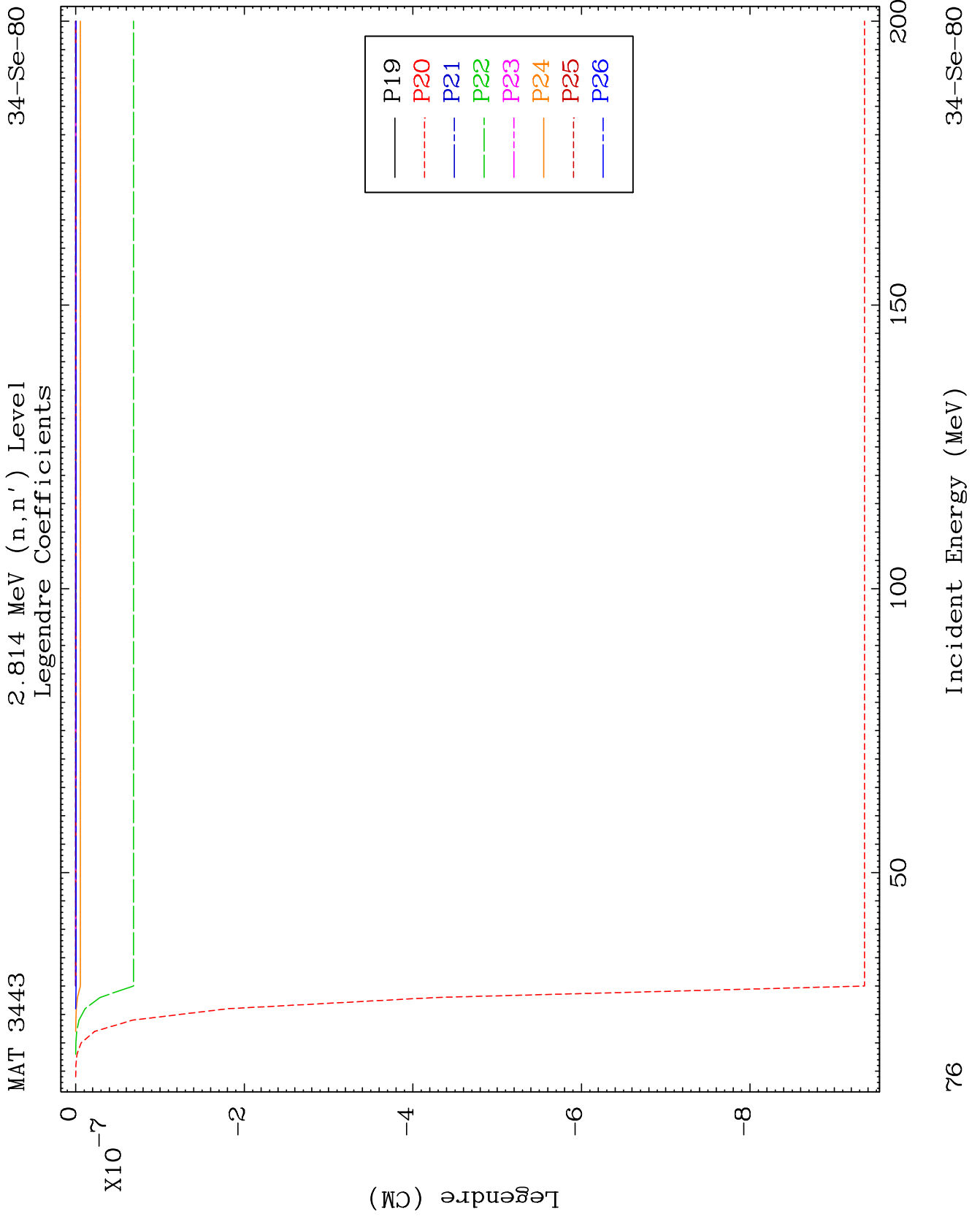
34-Se-80



75

Incident Energy (MeV)

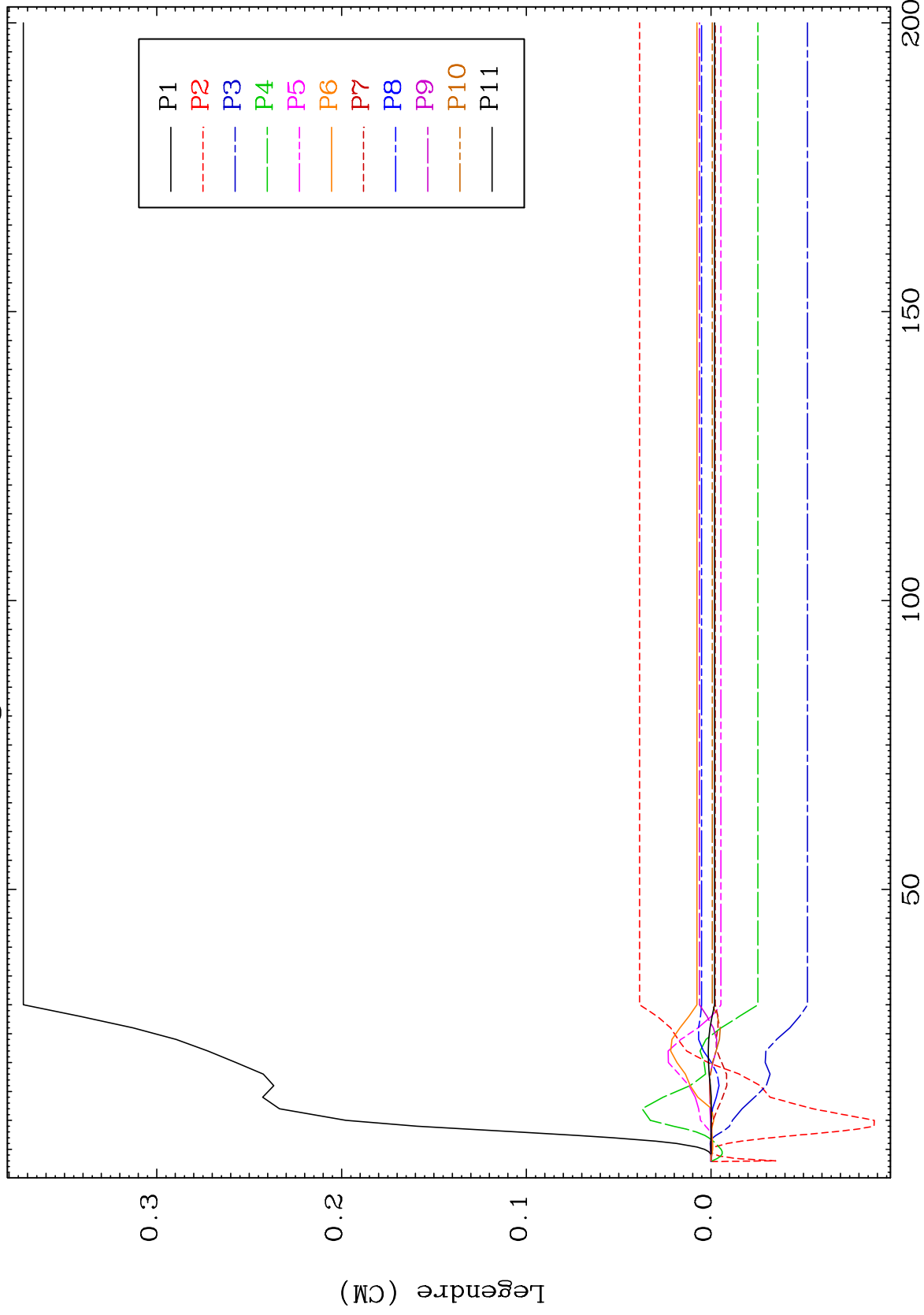
34-Se-80



MAT 3443

2.826 MeV (n,n') Level  
Legendre Coefficients

34-Se-80



77

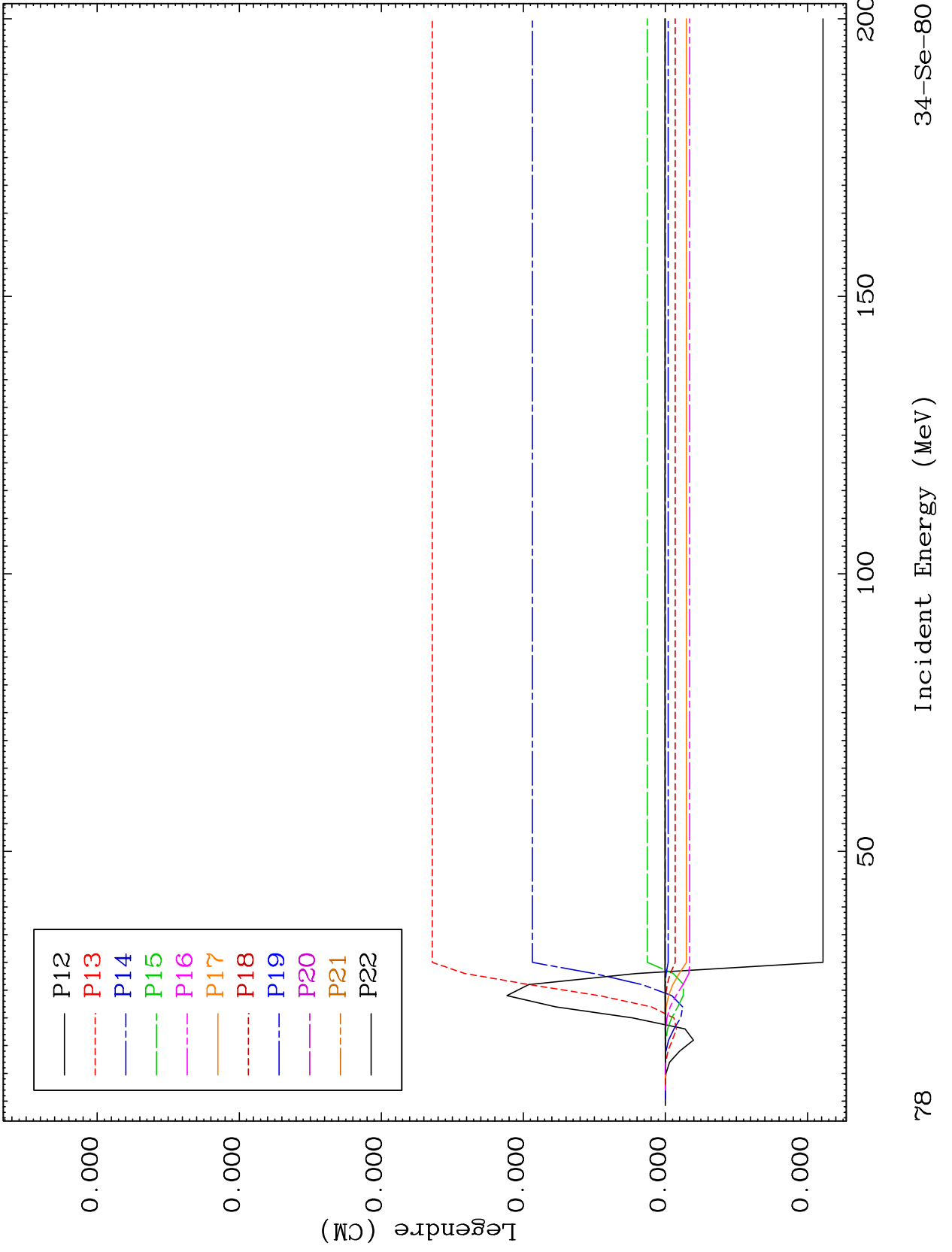
Incident Energy (MeV)

34-Se-80

MAT 3443

2.826 MeV (n,n') Level  
Legendre Coefficients

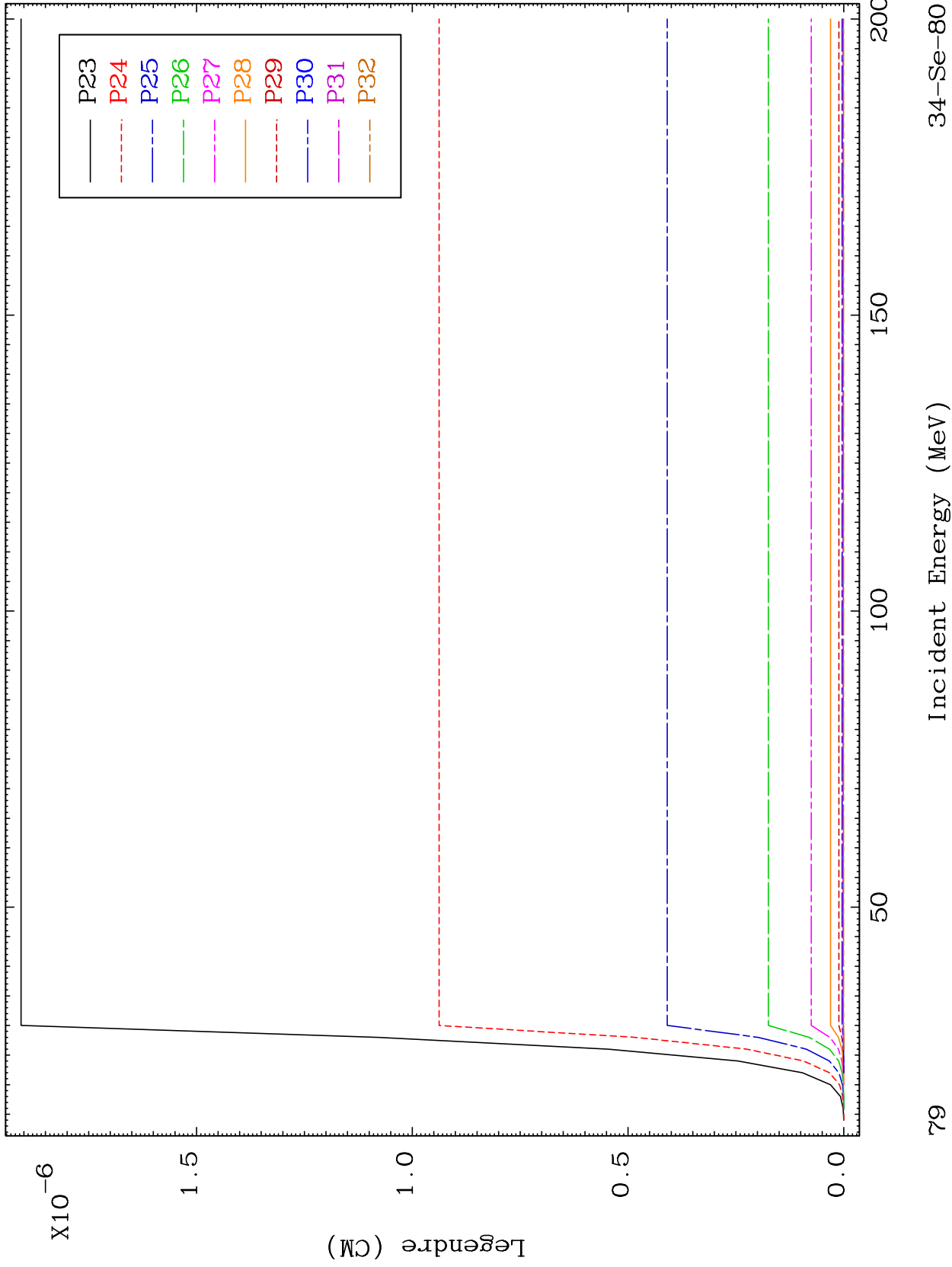
34-Se-80



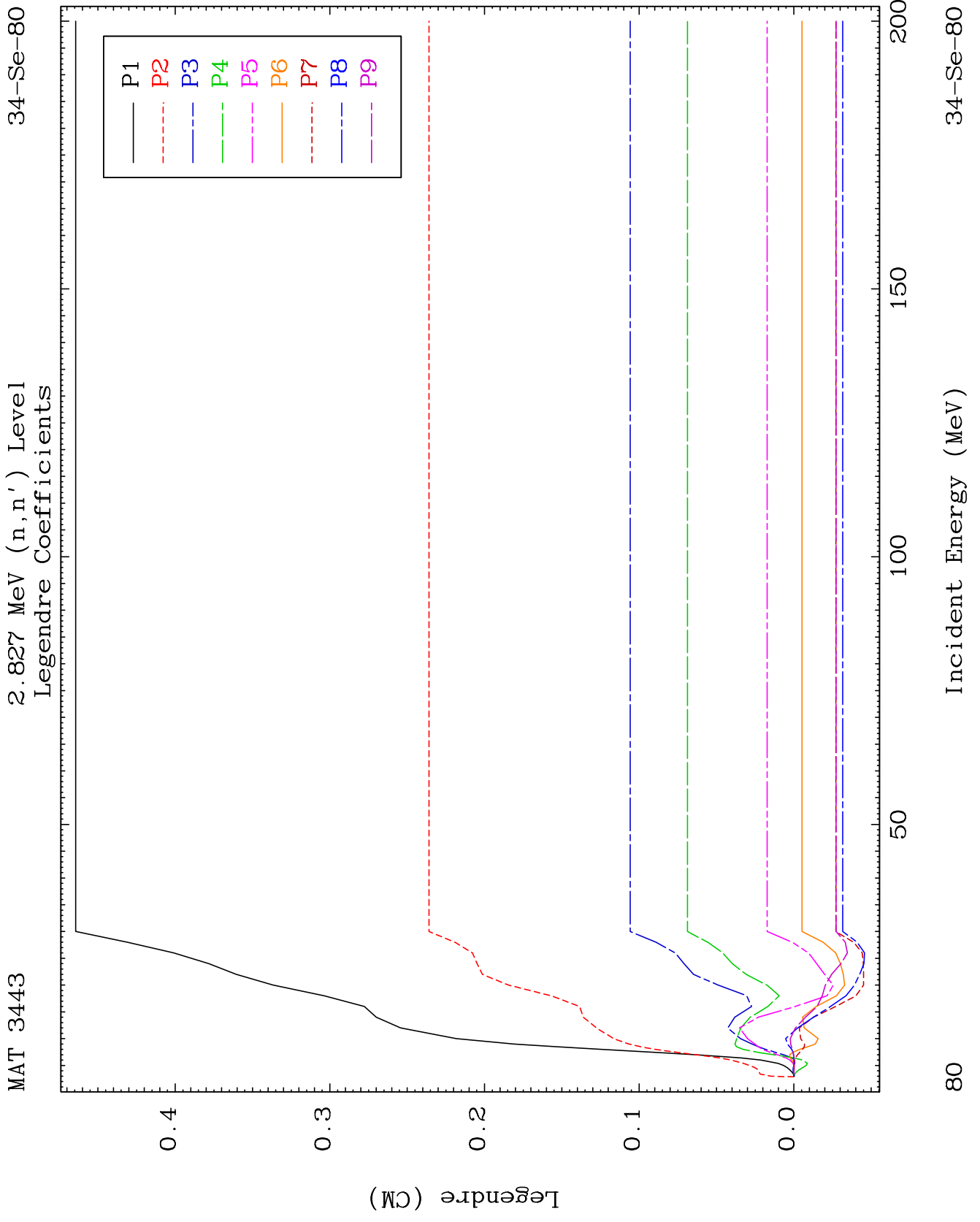
MAT 3443

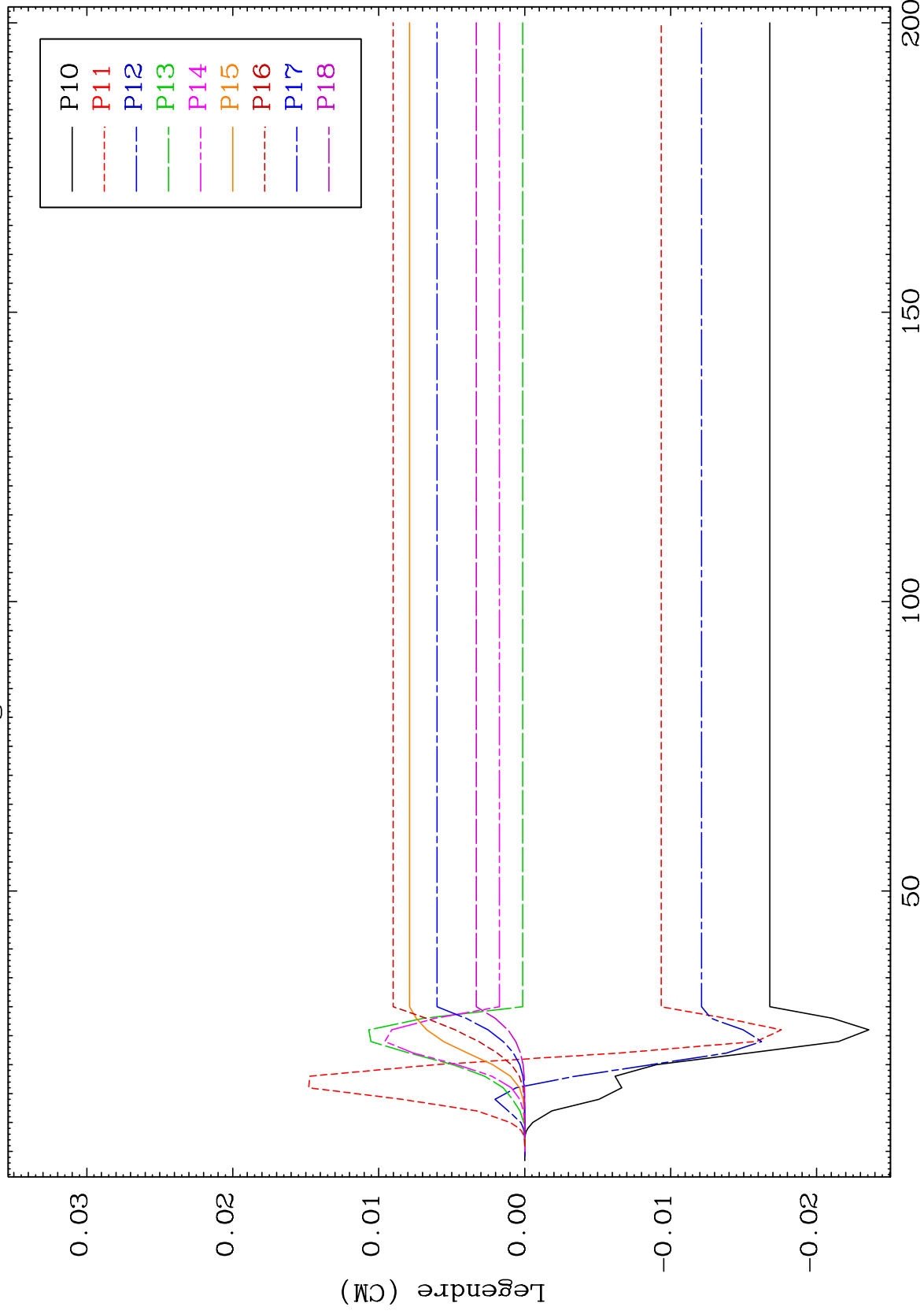
2.826 MeV (n,n') Level  
Legendre Coefficients

<sup>34</sup>Se-80





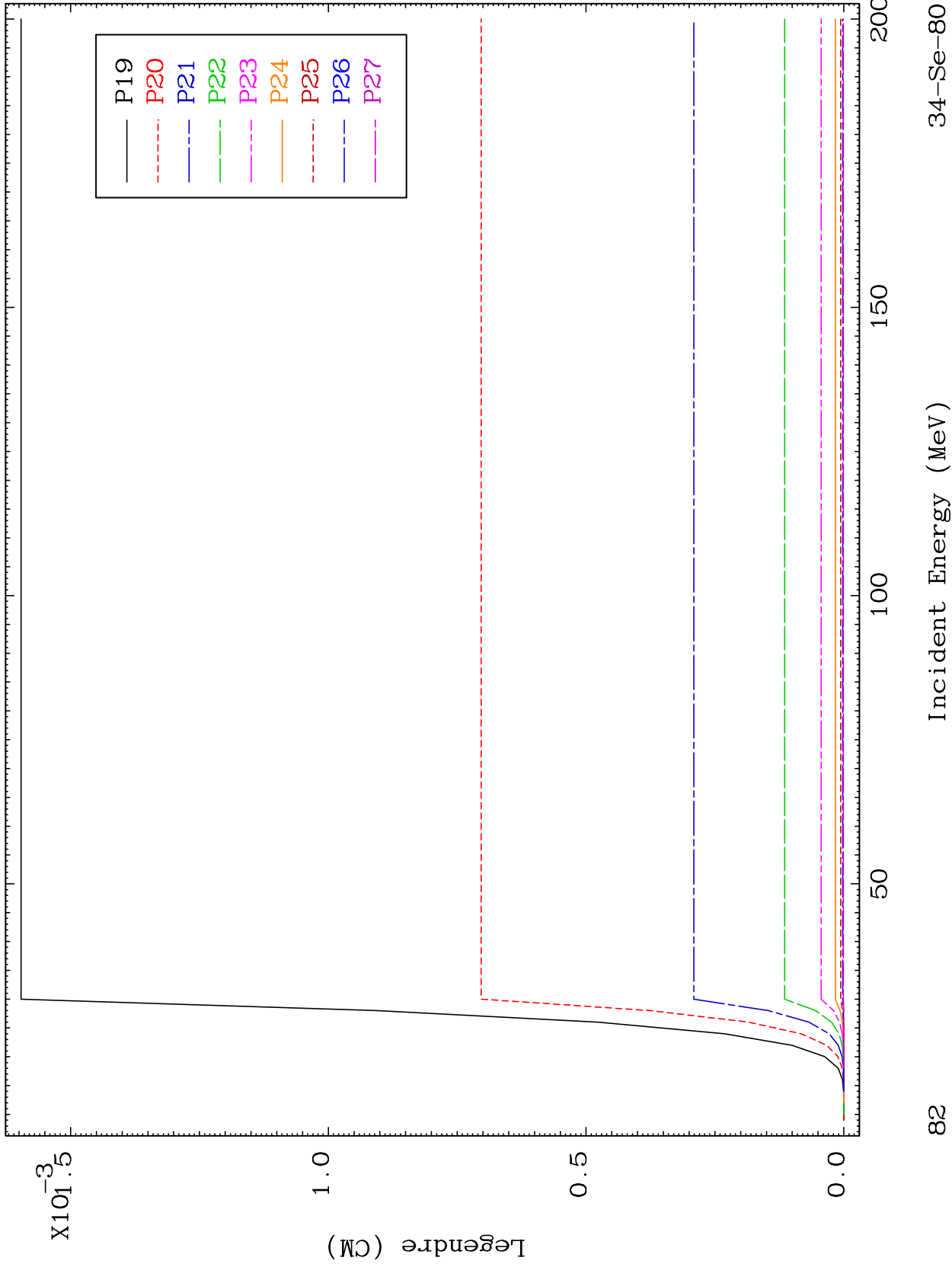




MAT 3443

2.827 MeV (n,n') Level  
Legendre Coefficients

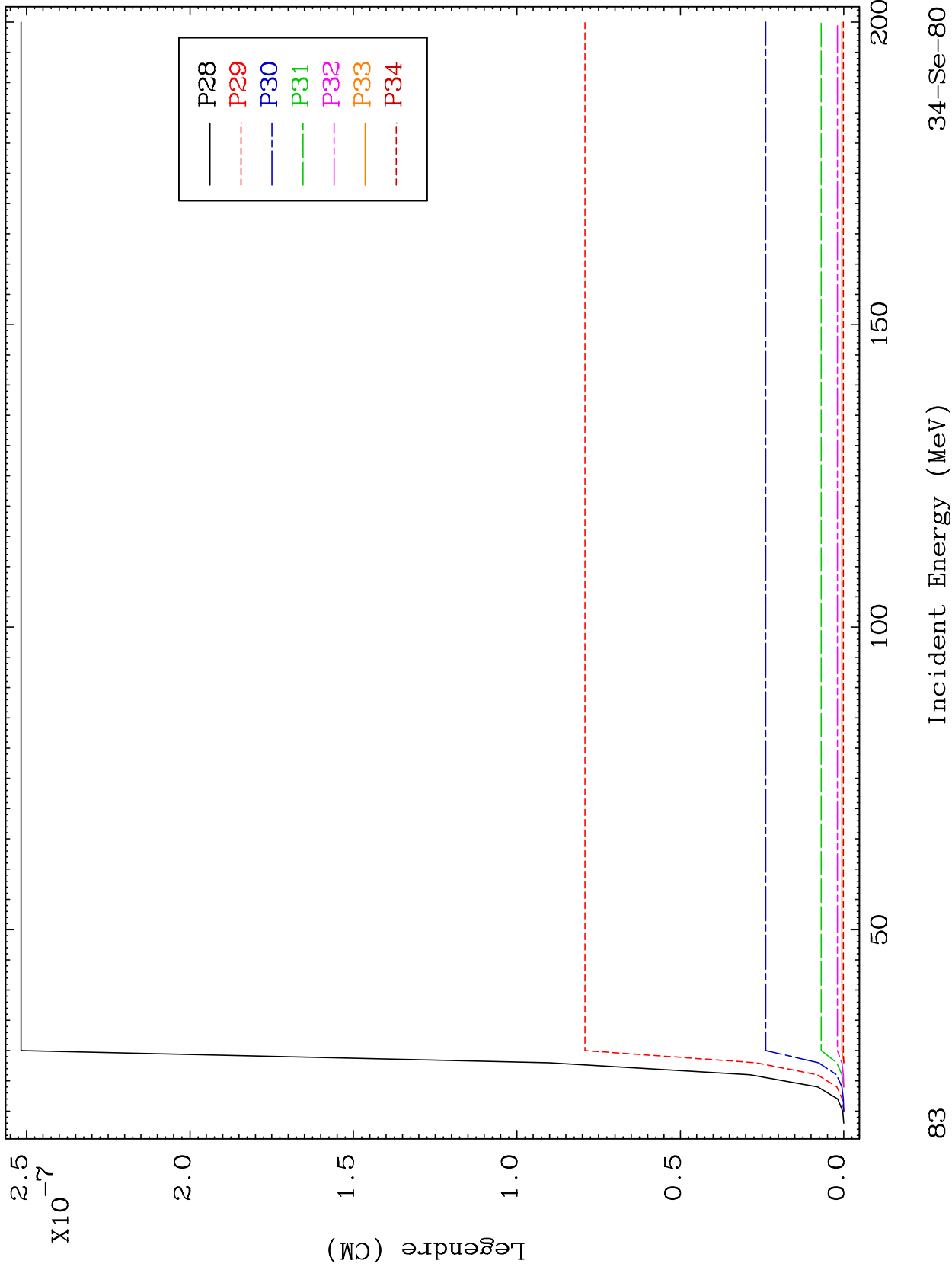
34-Se-80



MAT 3443

2.827 MeV (n, n') Level  
Legendre Coefficients

34-Se-80

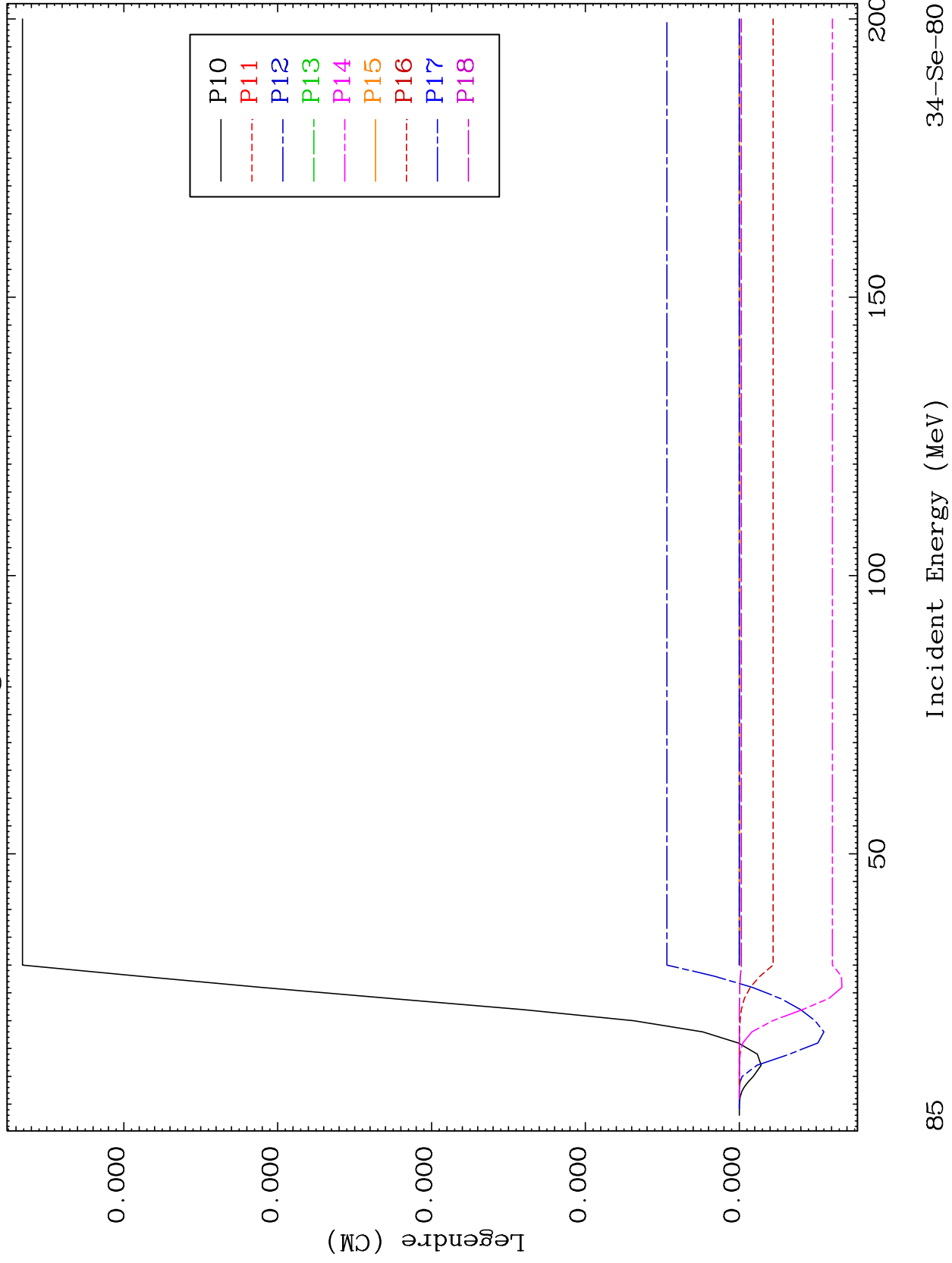




MAT 3443

2.836 MeV (n,n') Level  
Legendre Coefficients

<sup>34</sup>Se-80



85

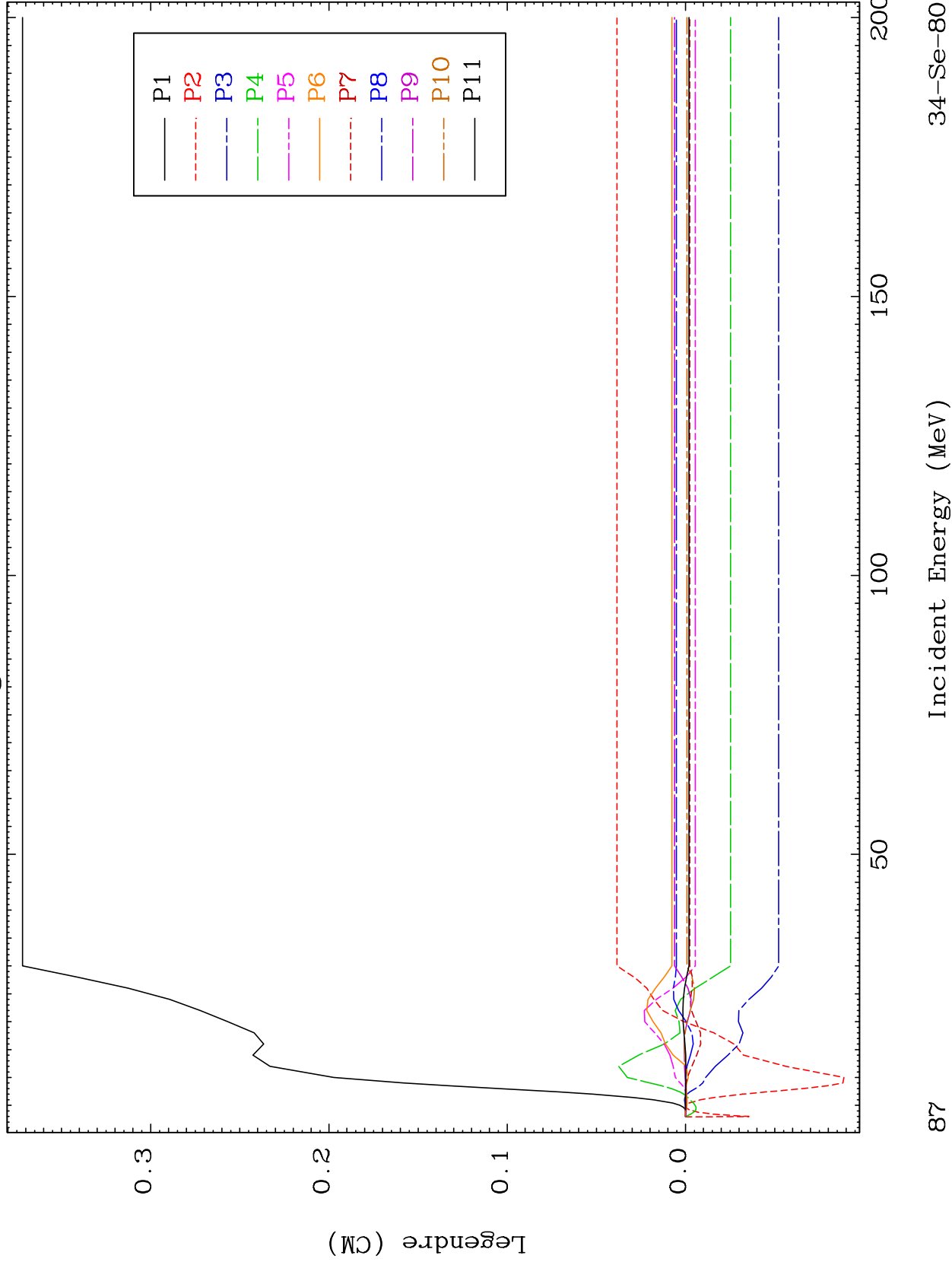
<sup>34</sup>Se-80



MAT 3443

2.895 MeV (n,n') Level  
Legendre Coefficients

34-Se-80



87

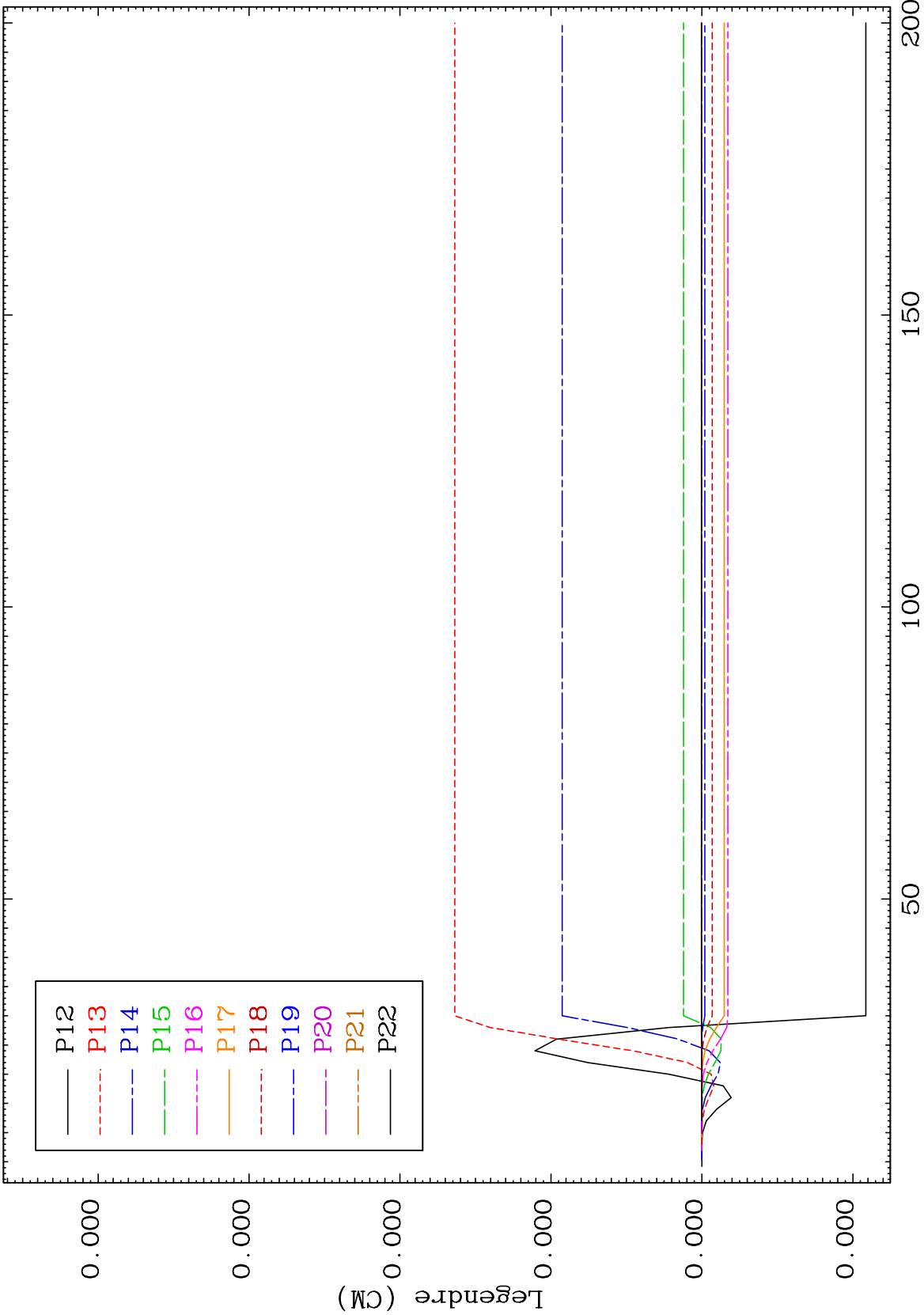
34-Se-80



MAT 3443

2.895 MeV (n,n') Level  
Legendre Coefficients

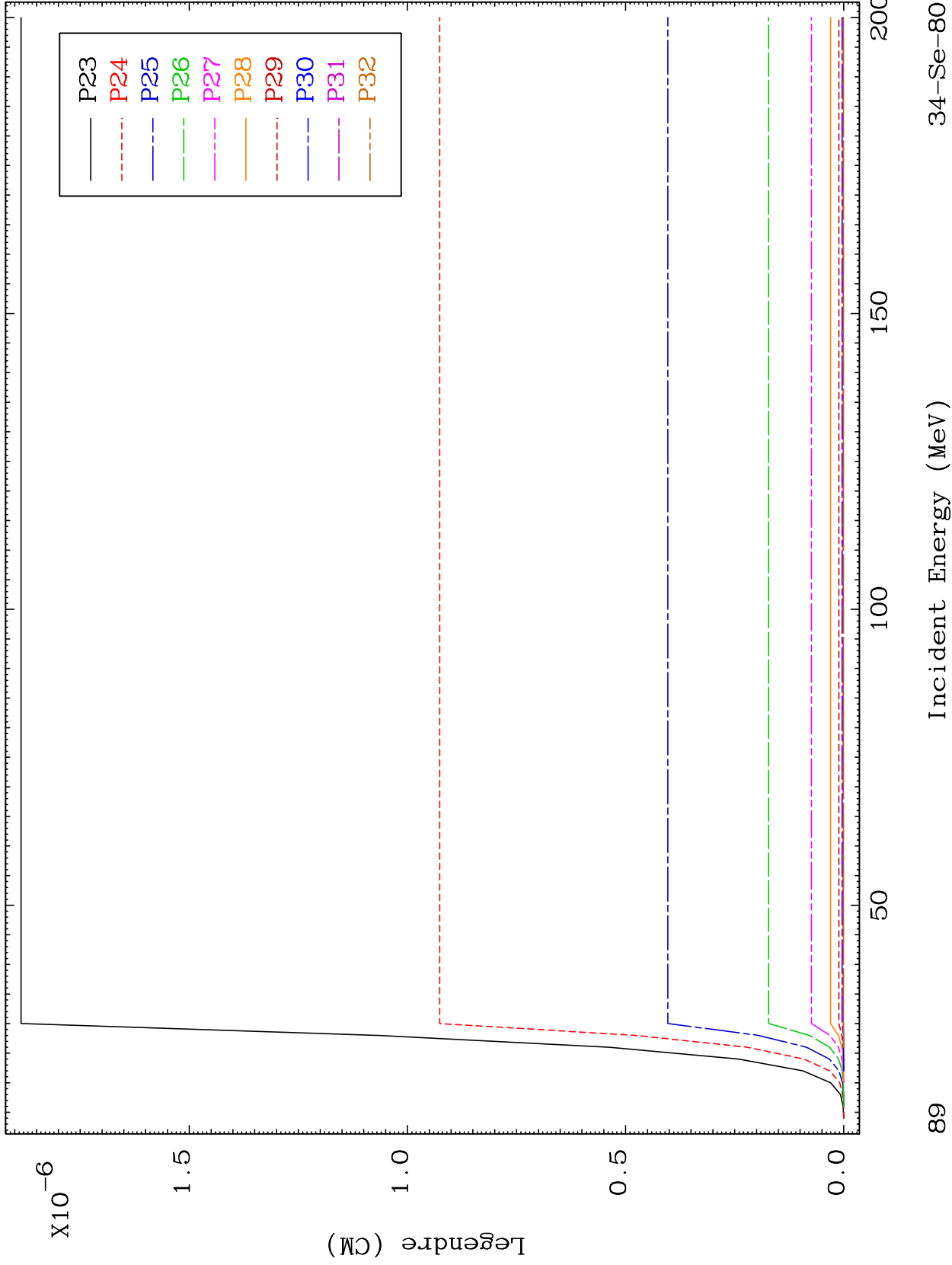
34-Se-80



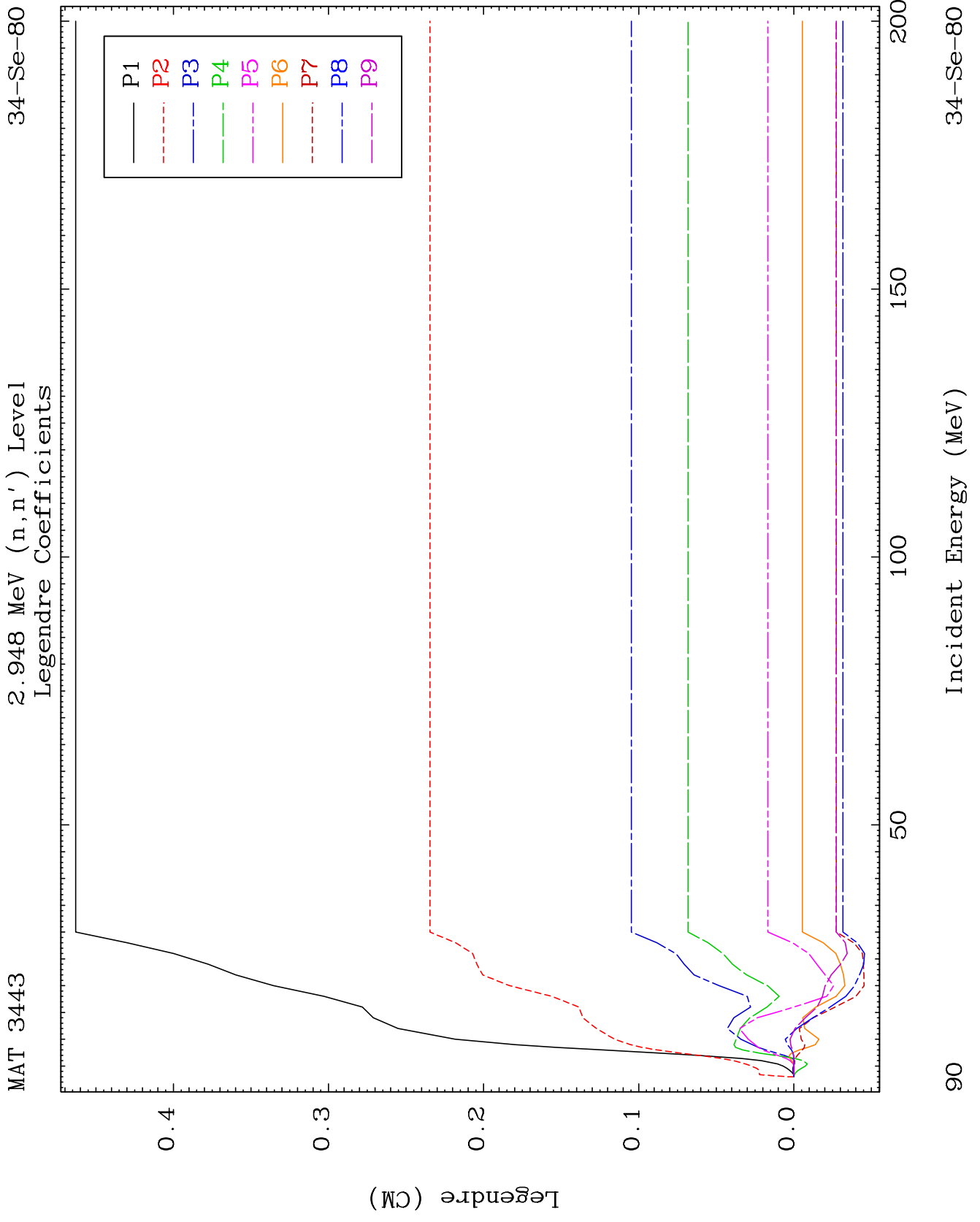
MAT 3443

2.895 MeV (n,n') Level  
Legendre Coefficients

<sup>34</sup>Se-80



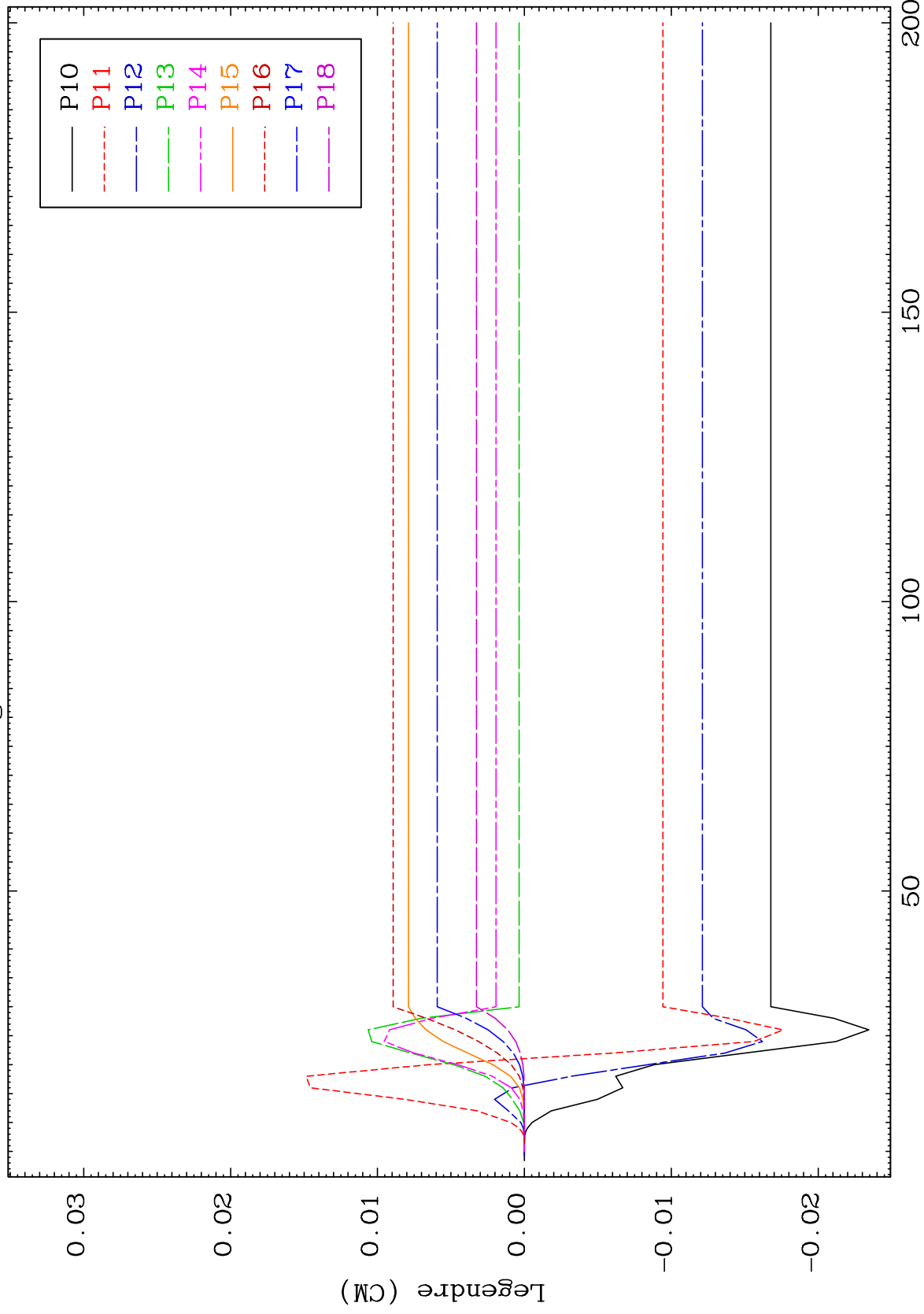
89



MAT 3443

2.948 MeV (n,n') Level  
Legendre Coefficients

<sup>34</sup>Se-80



91

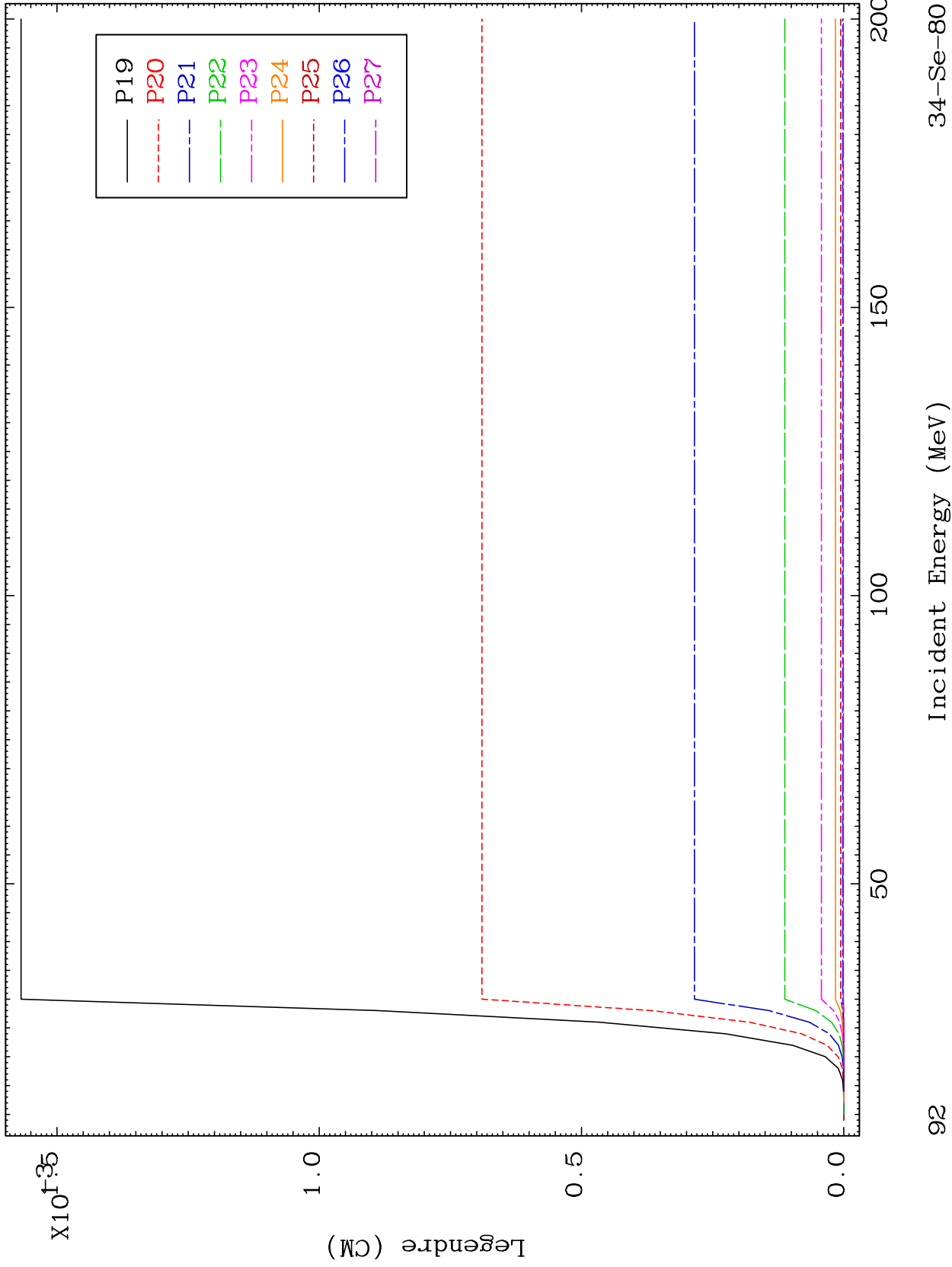
Incident Energy (MeV)

<sup>34</sup>Se-80

MAT 3443

2.948 MeV (n,n') Level  
Legendre Coefficients

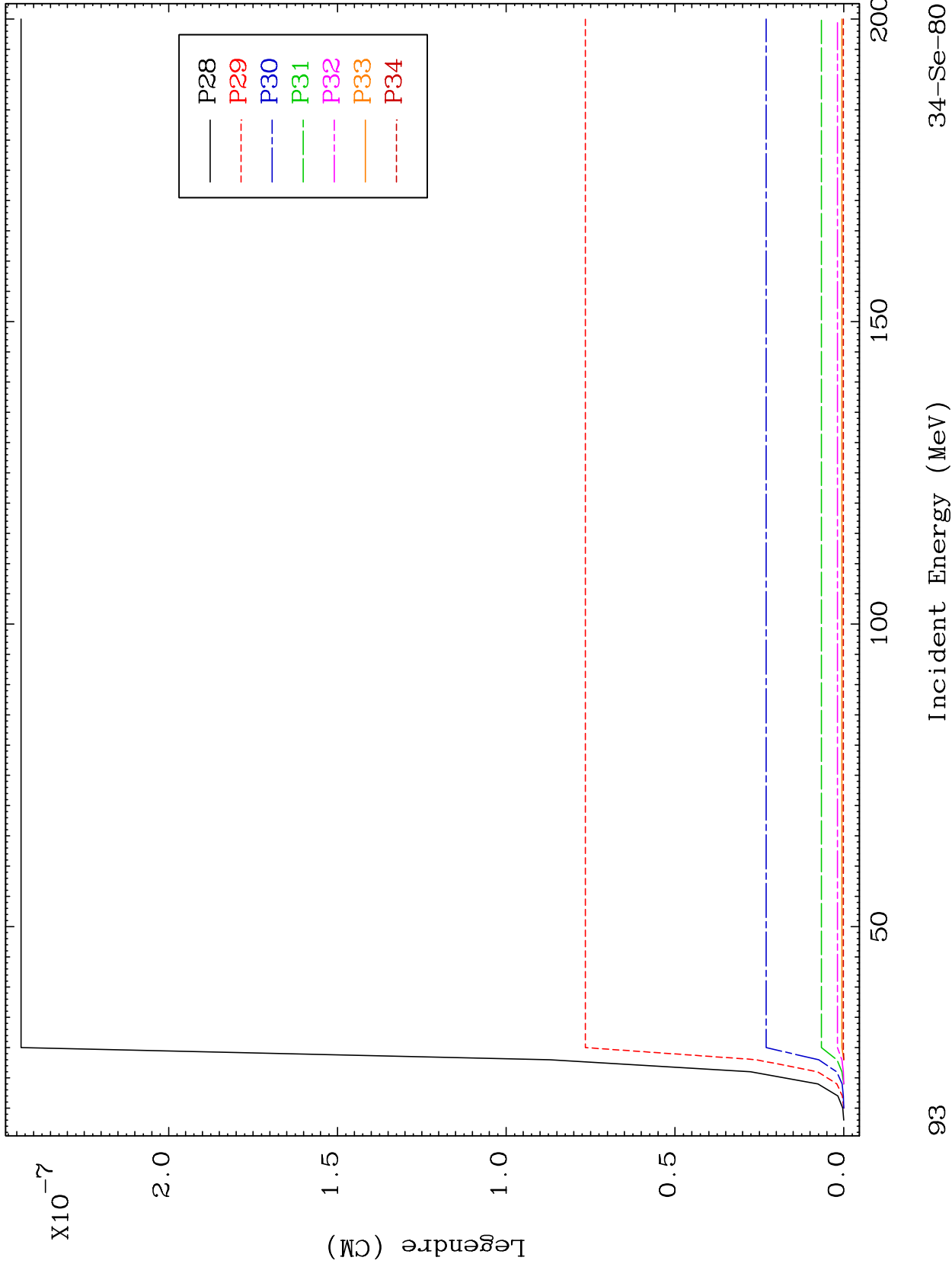
34-Se-80



MAT 3443

2.948 MeV (n,n') Level  
Legendre Coefficients

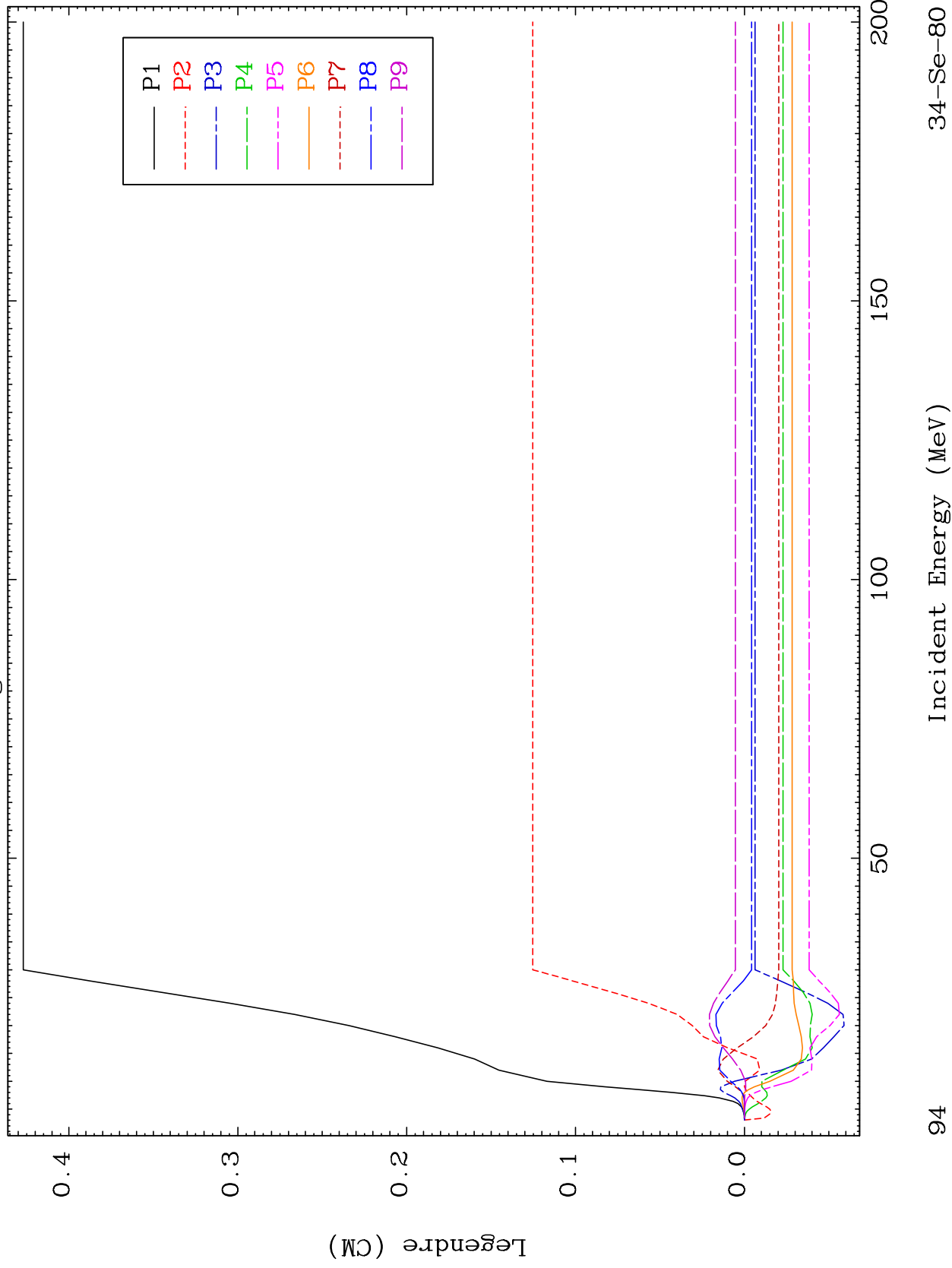
34-Se-80



MAT 3443

2.998 MeV (n,n') Level  
Legendre Coefficients

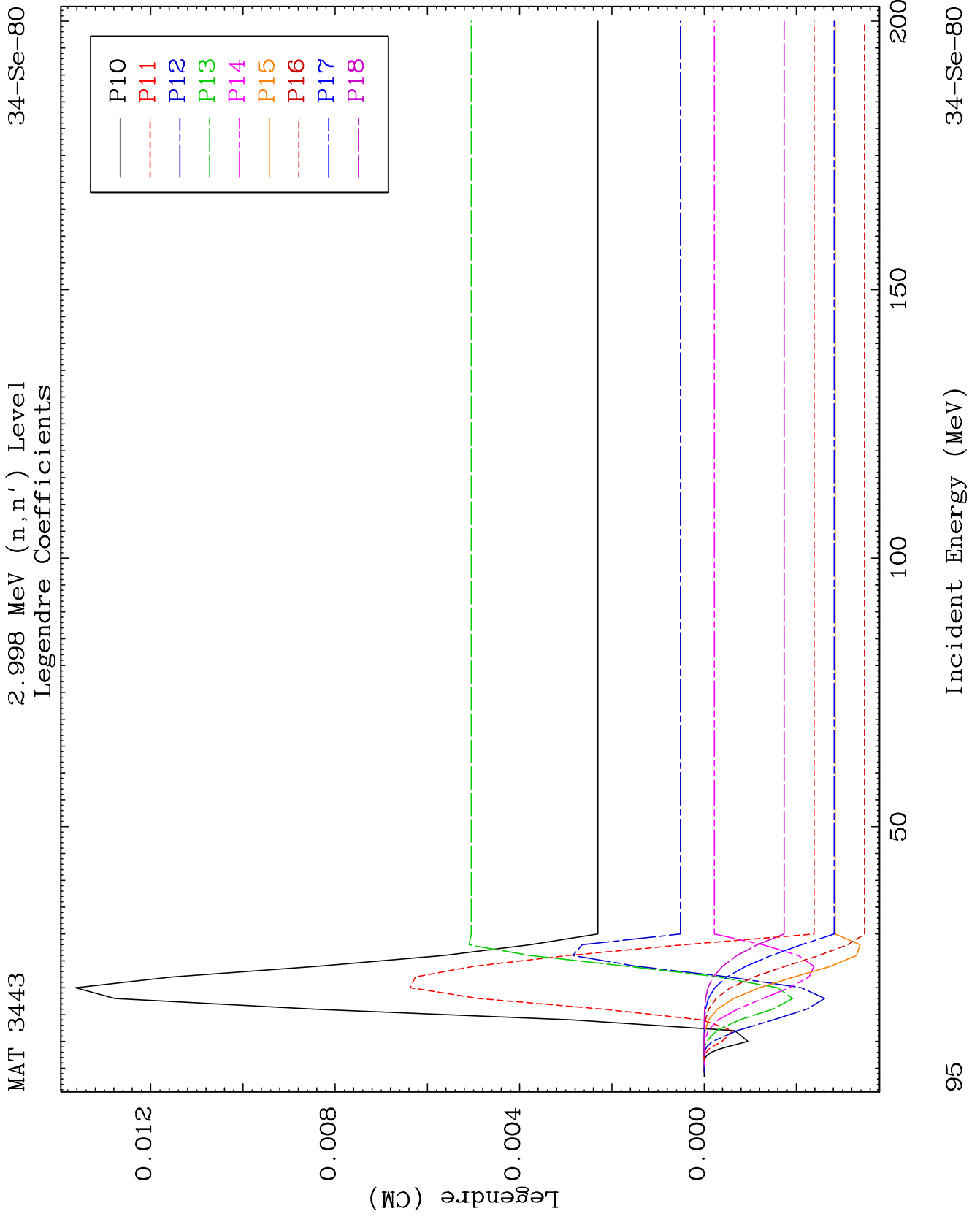
<sup>34</sup>Se-80



94

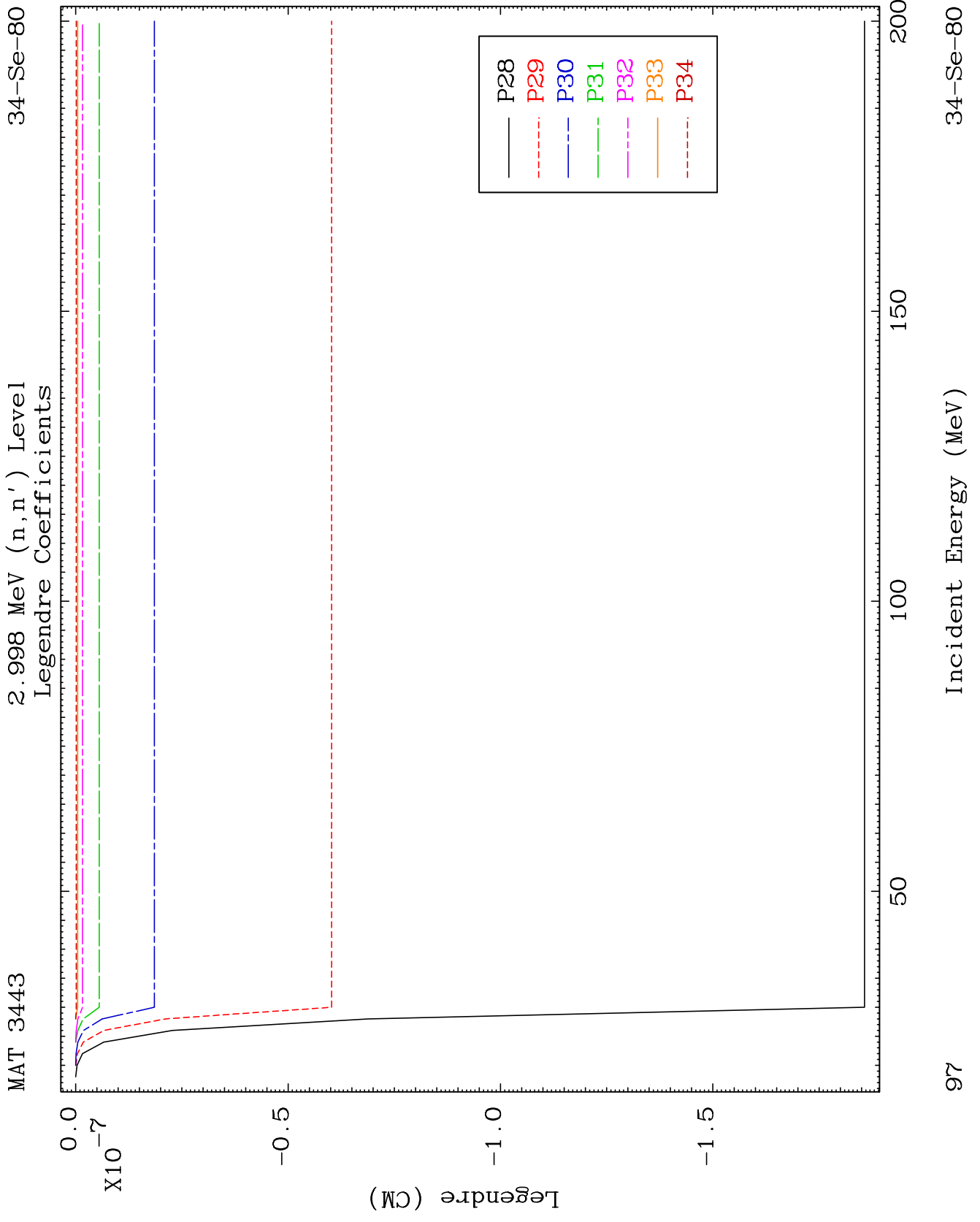
Incident Energy (MeV)

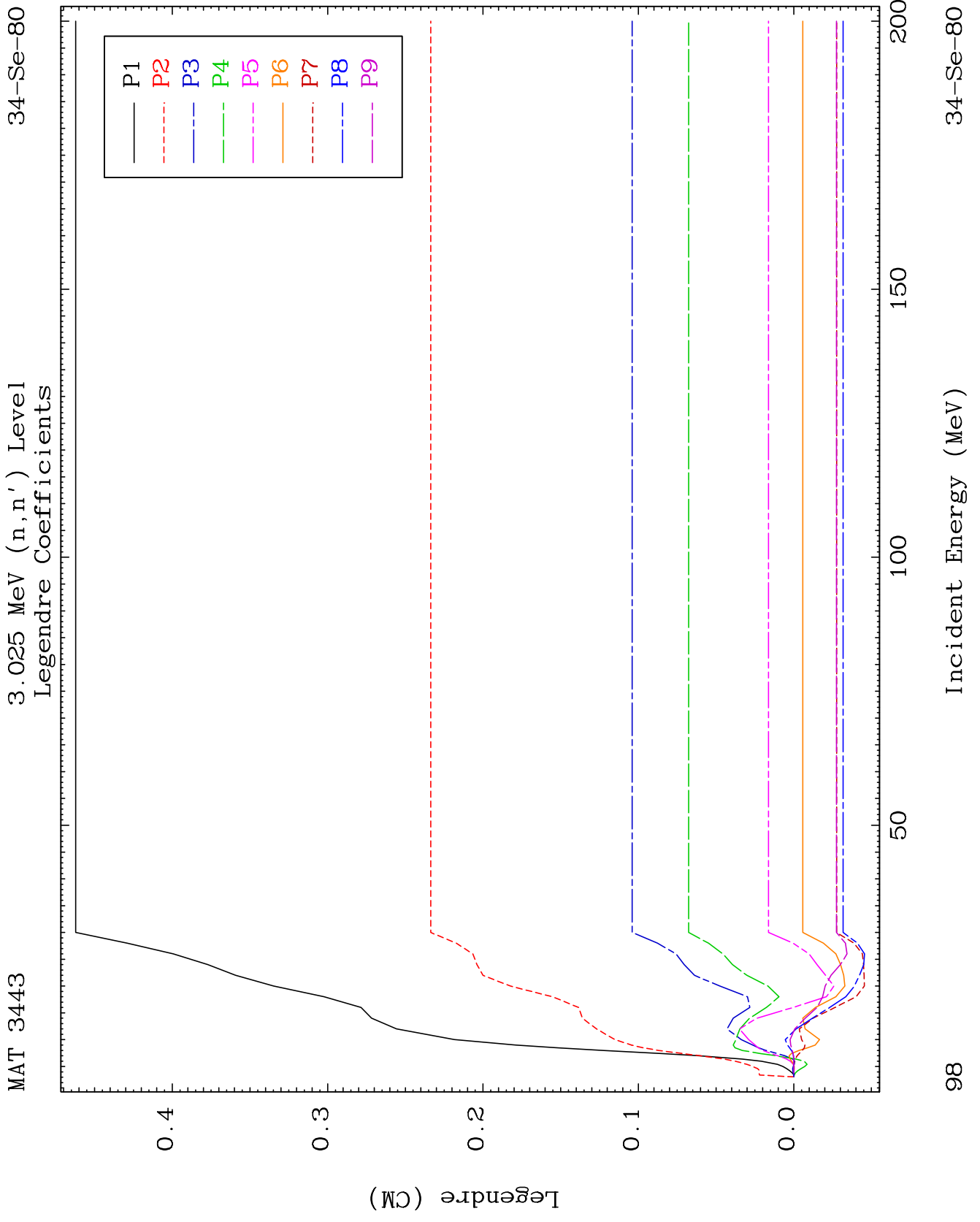
<sup>34</sup>Se-80







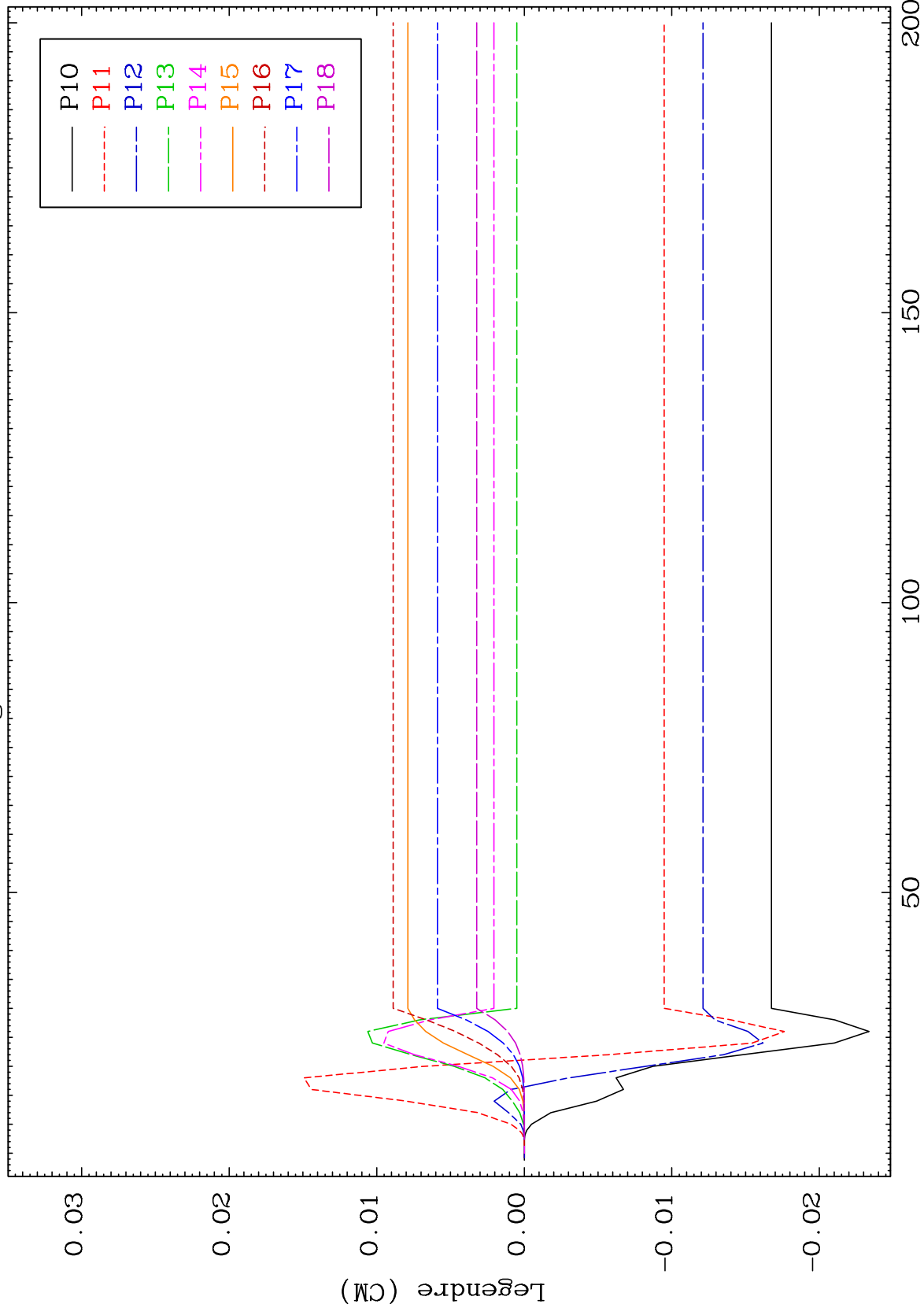




MAT 3443

3.025 MeV (n,n') Level  
Legendre Coefficients

<sup>34</sup>Se-80



99

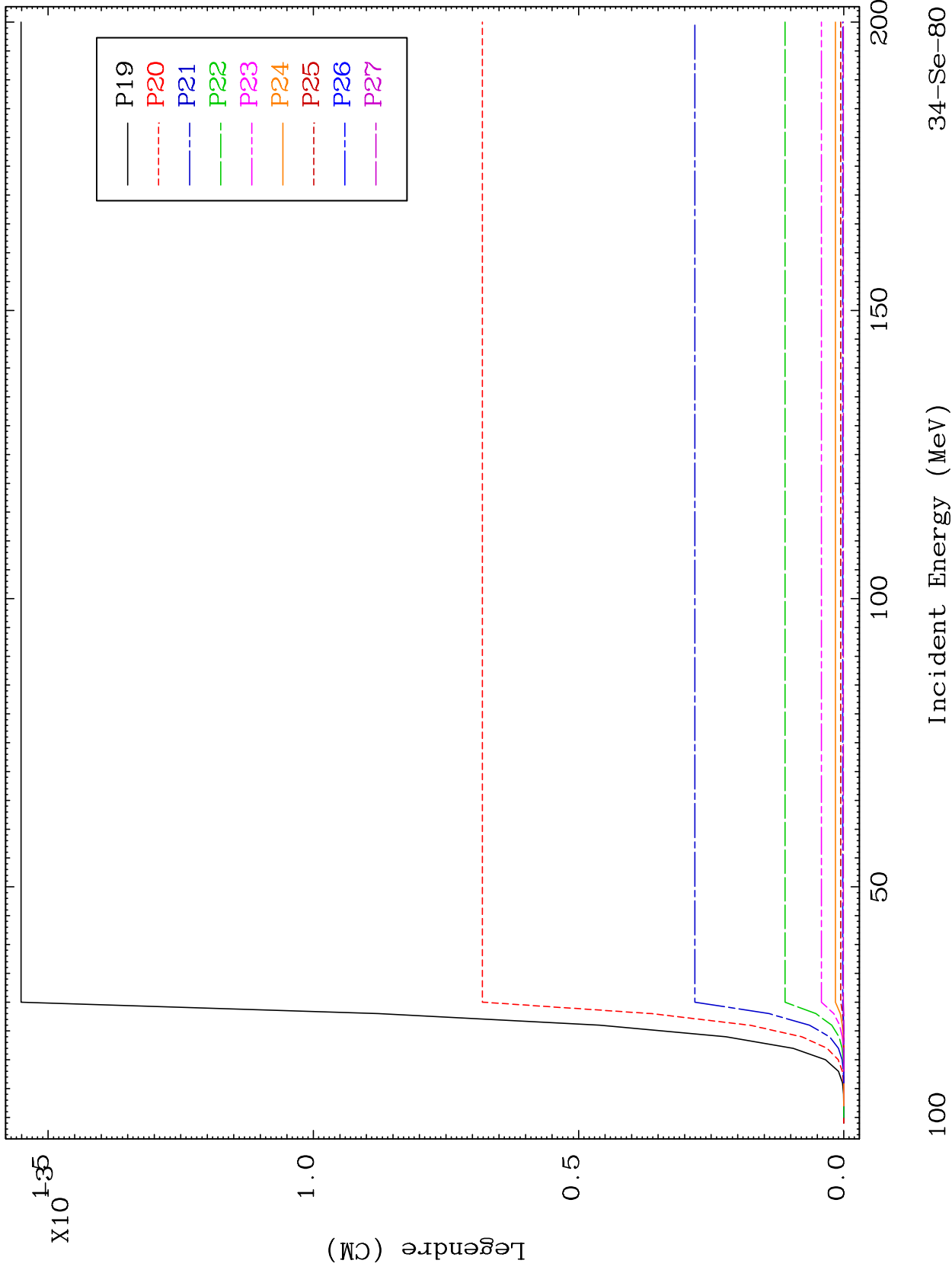
Incident Energy (MeV)

<sup>34</sup>Se-80

MAT 3443

3.025 MeV (n,n') Level  
Legendre Coefficients

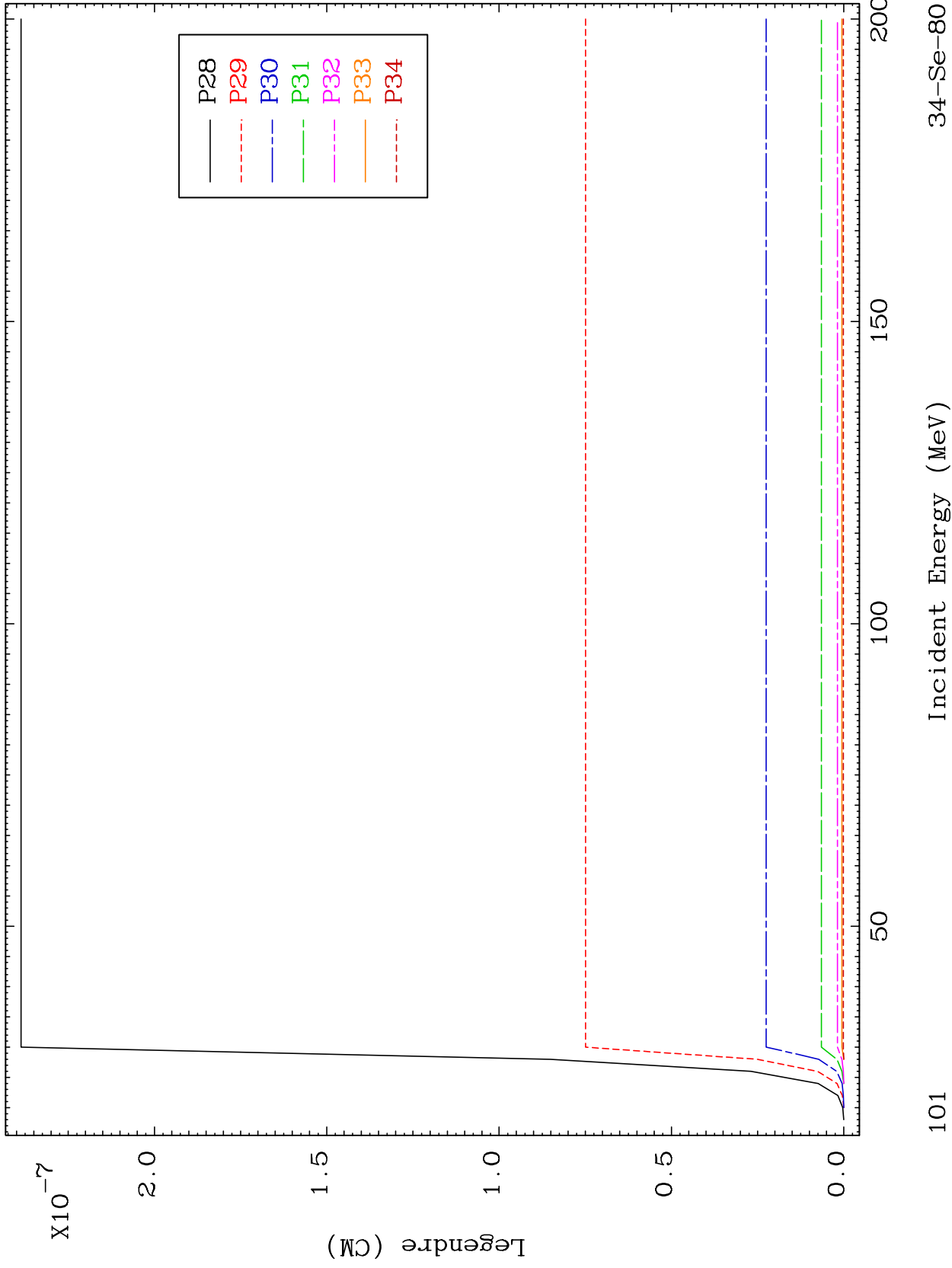
34-Se-80



MAT 3443

3.025 MeV (n,n') Level  
Legendre Coefficients

34-Se-80



101

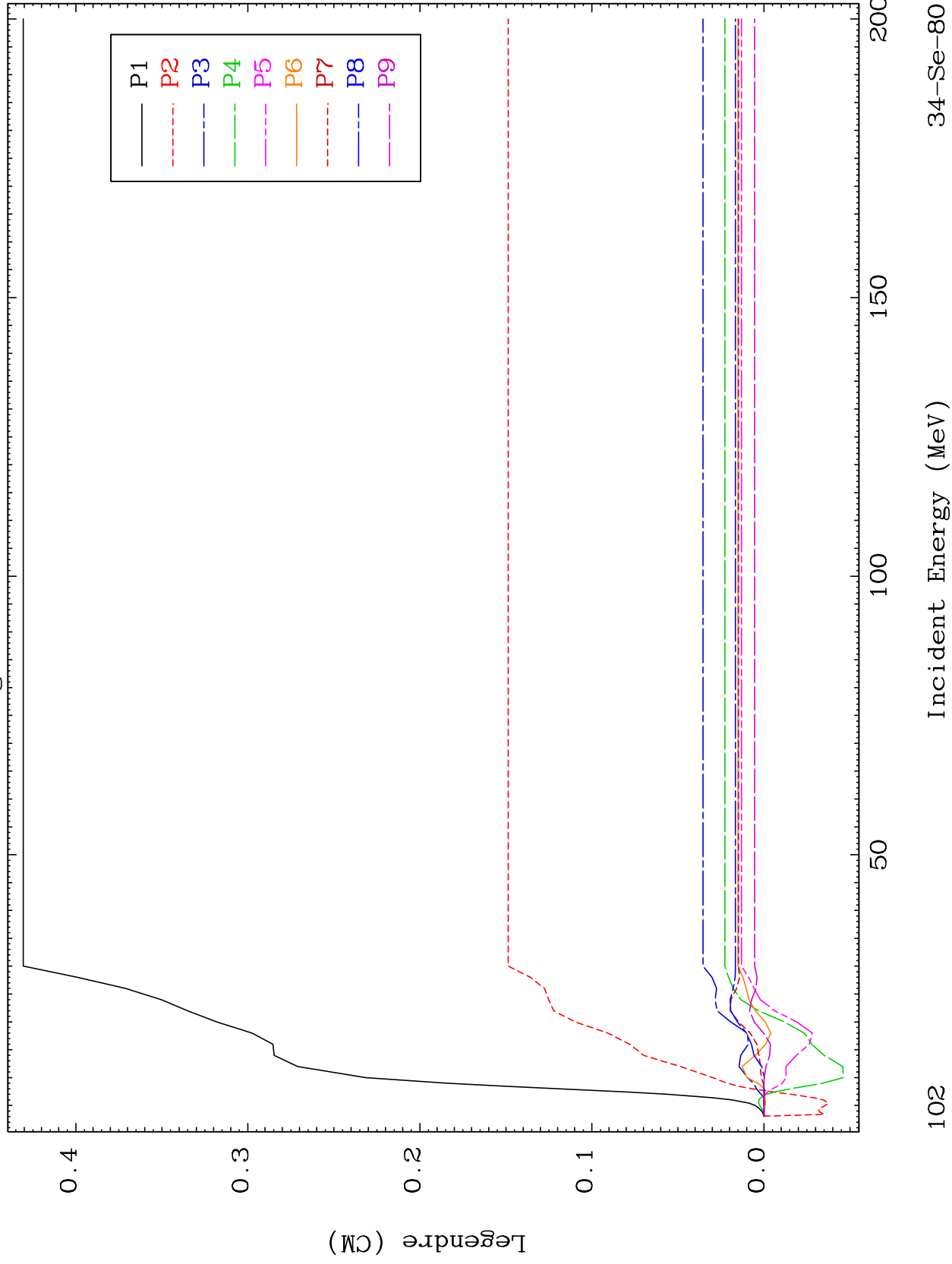
Incident Energy (MeV)

34-Se-80

MAT 3443

3.033 MeV (n,n') Level  
Legendre Coefficients

<sup>34</sup>Se-80



<sup>34</sup>Se-80

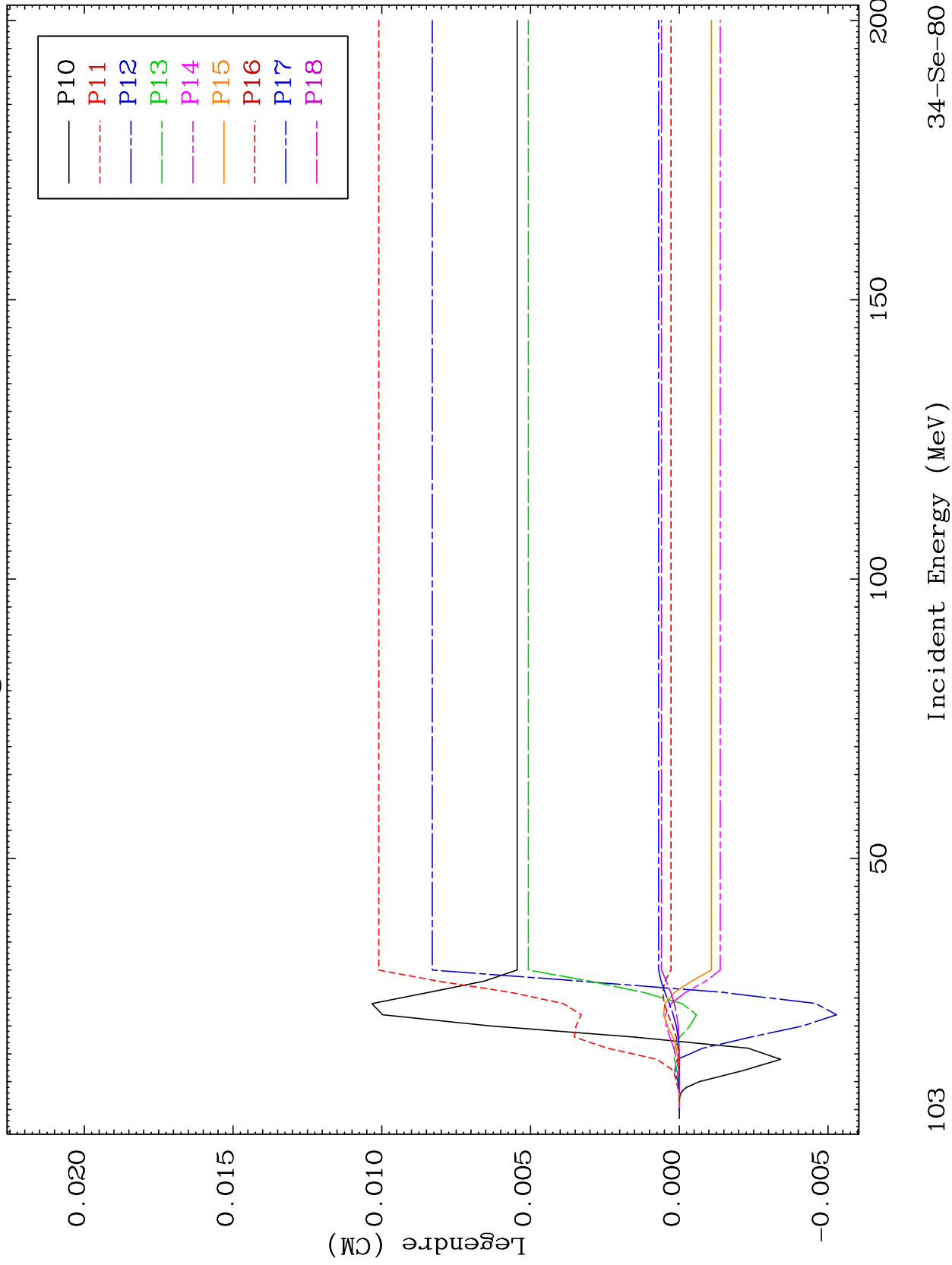
Incident Energy (MeV)

102

MAT 3443

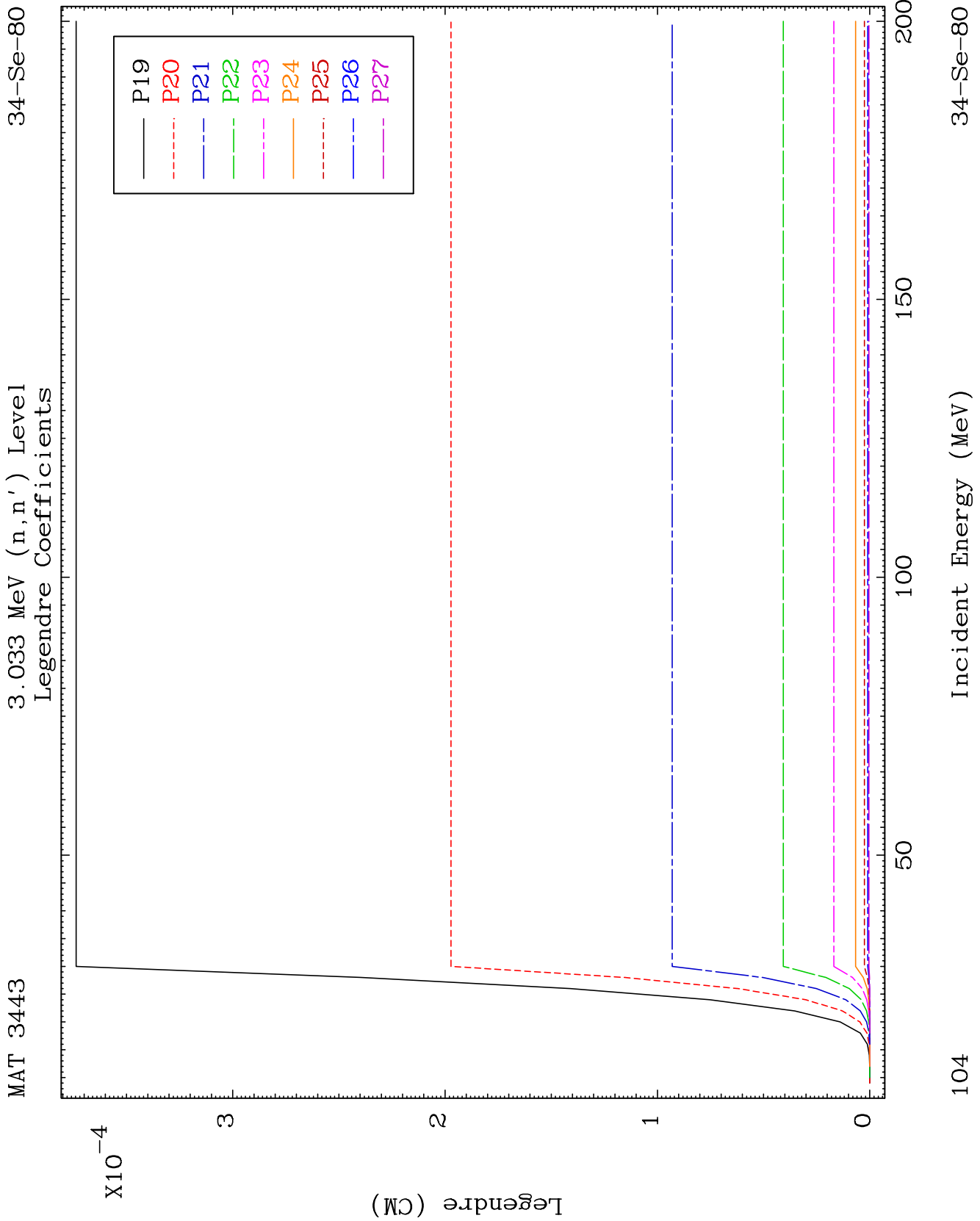
3.033 MeV (n,n') Level  
Legendre Coefficients

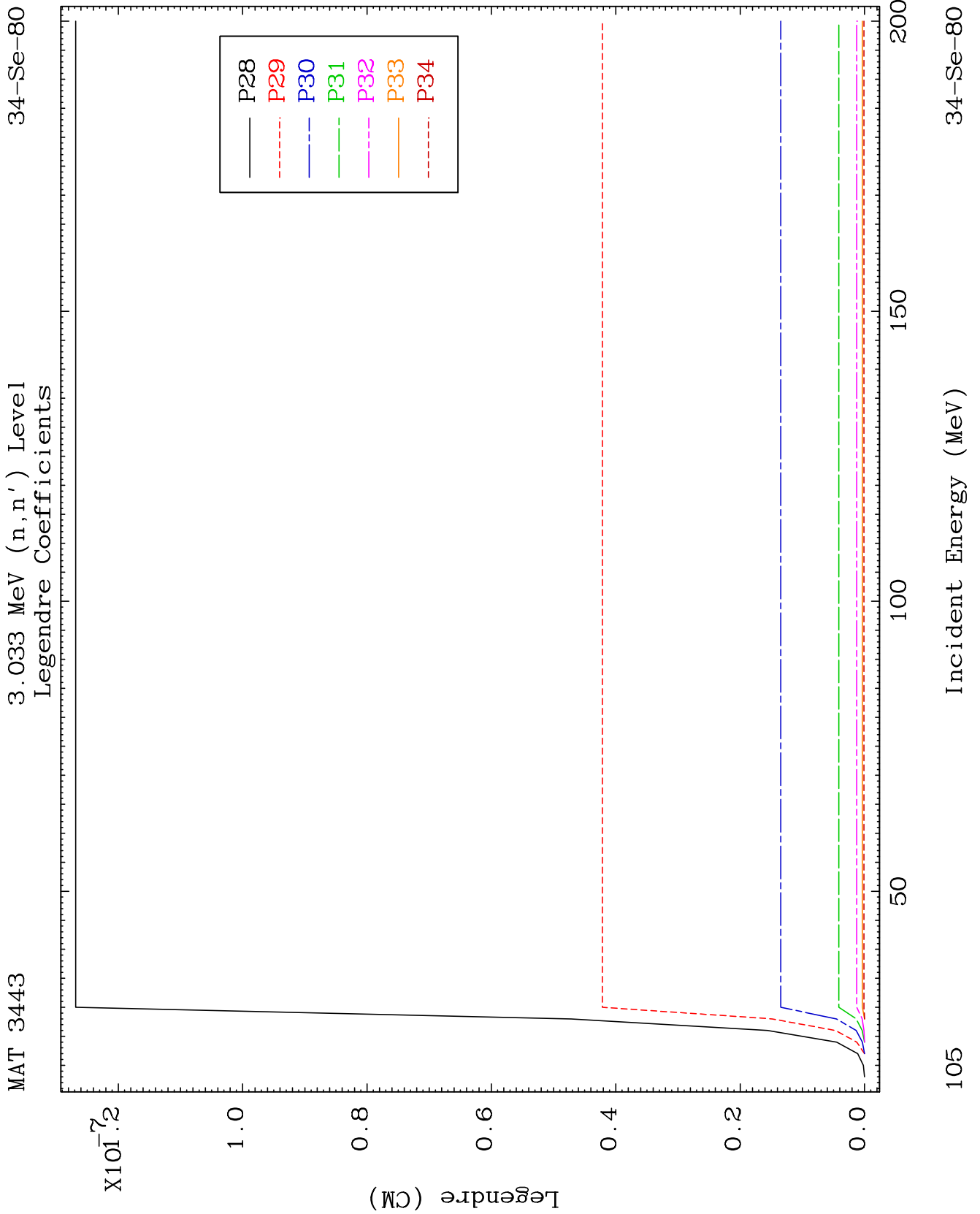
<sup>34</sup>Se-80

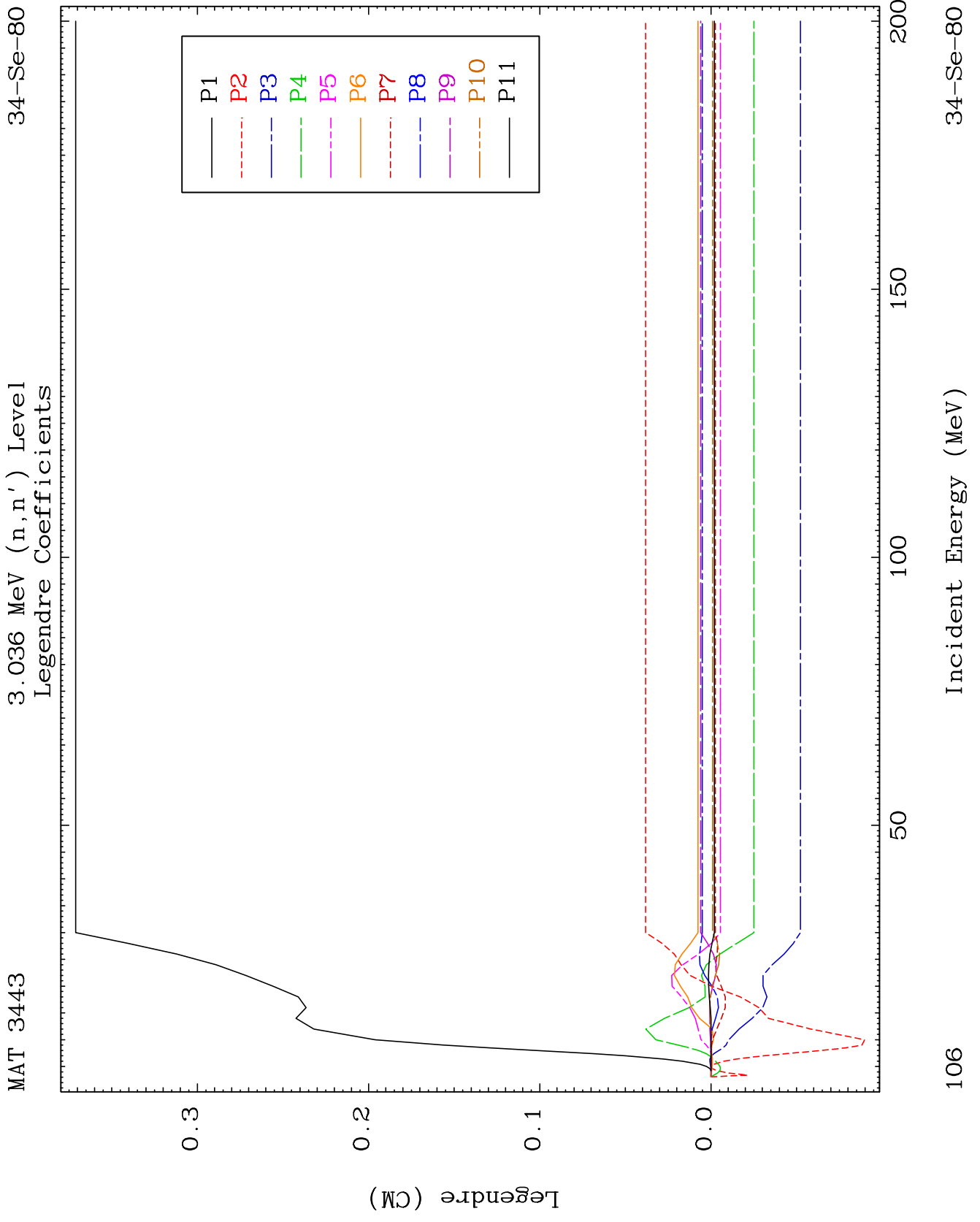


103





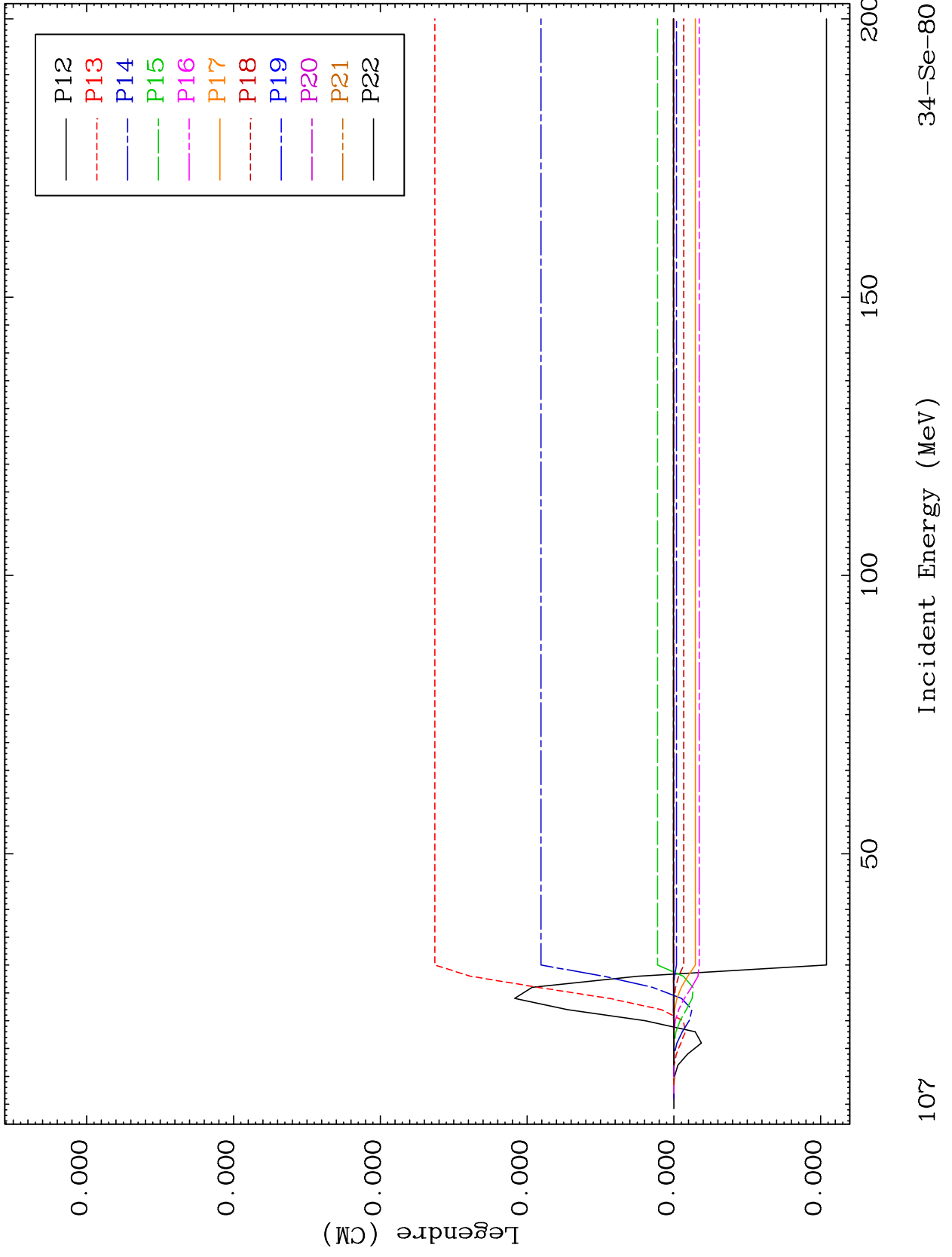




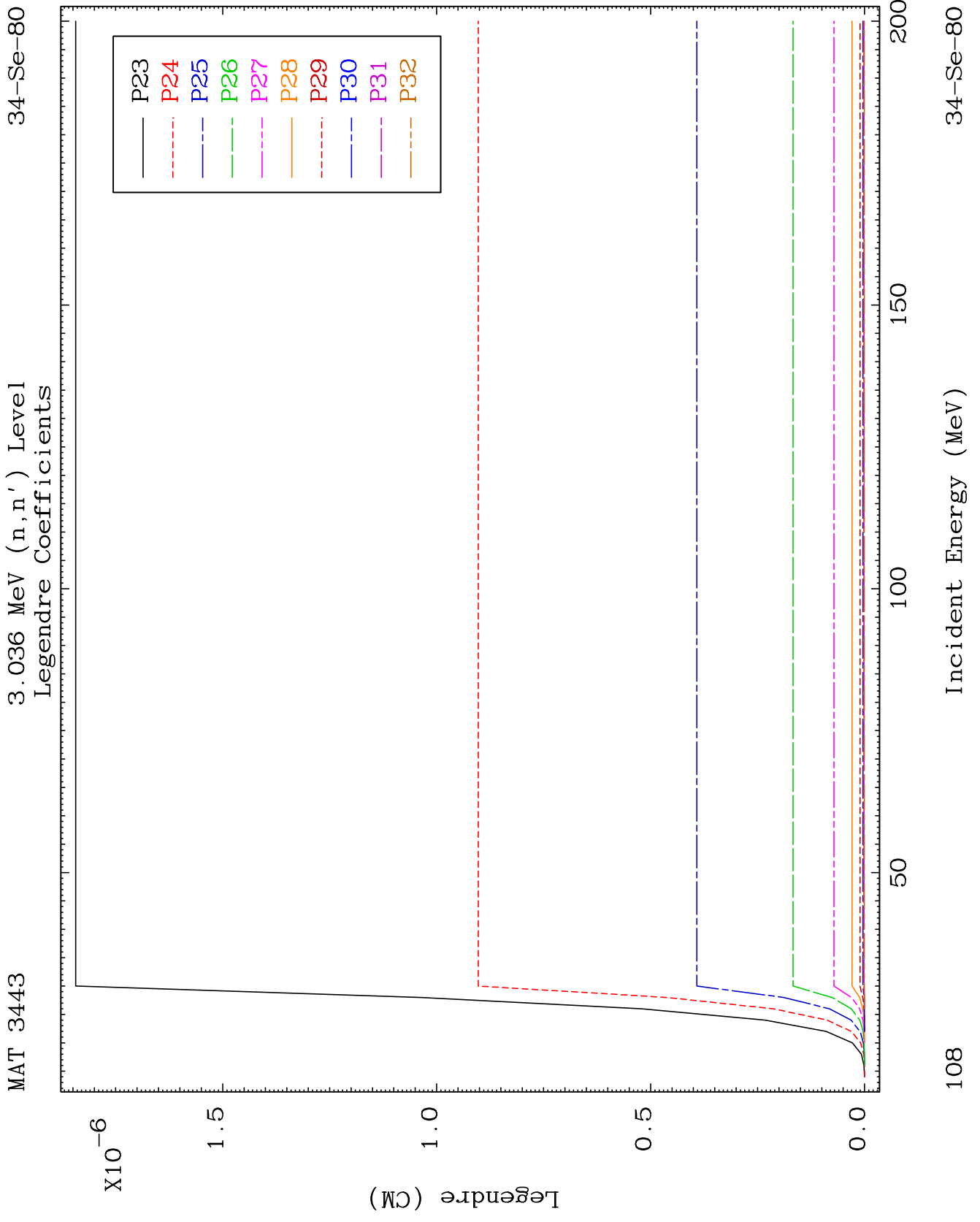
MAT 3443

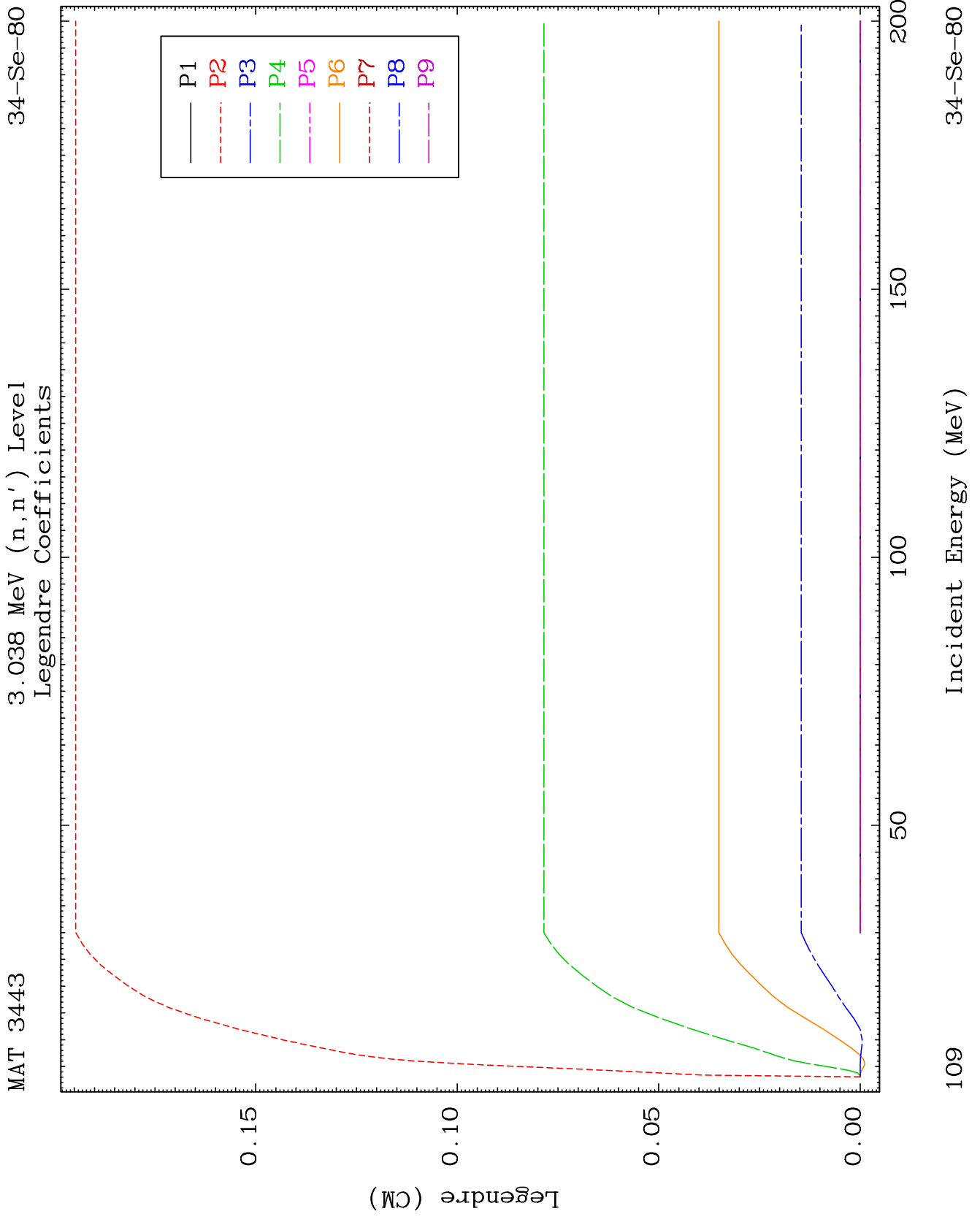
3.036 MeV (n,n') Level  
Legendre Coefficients

34-Se-80



107

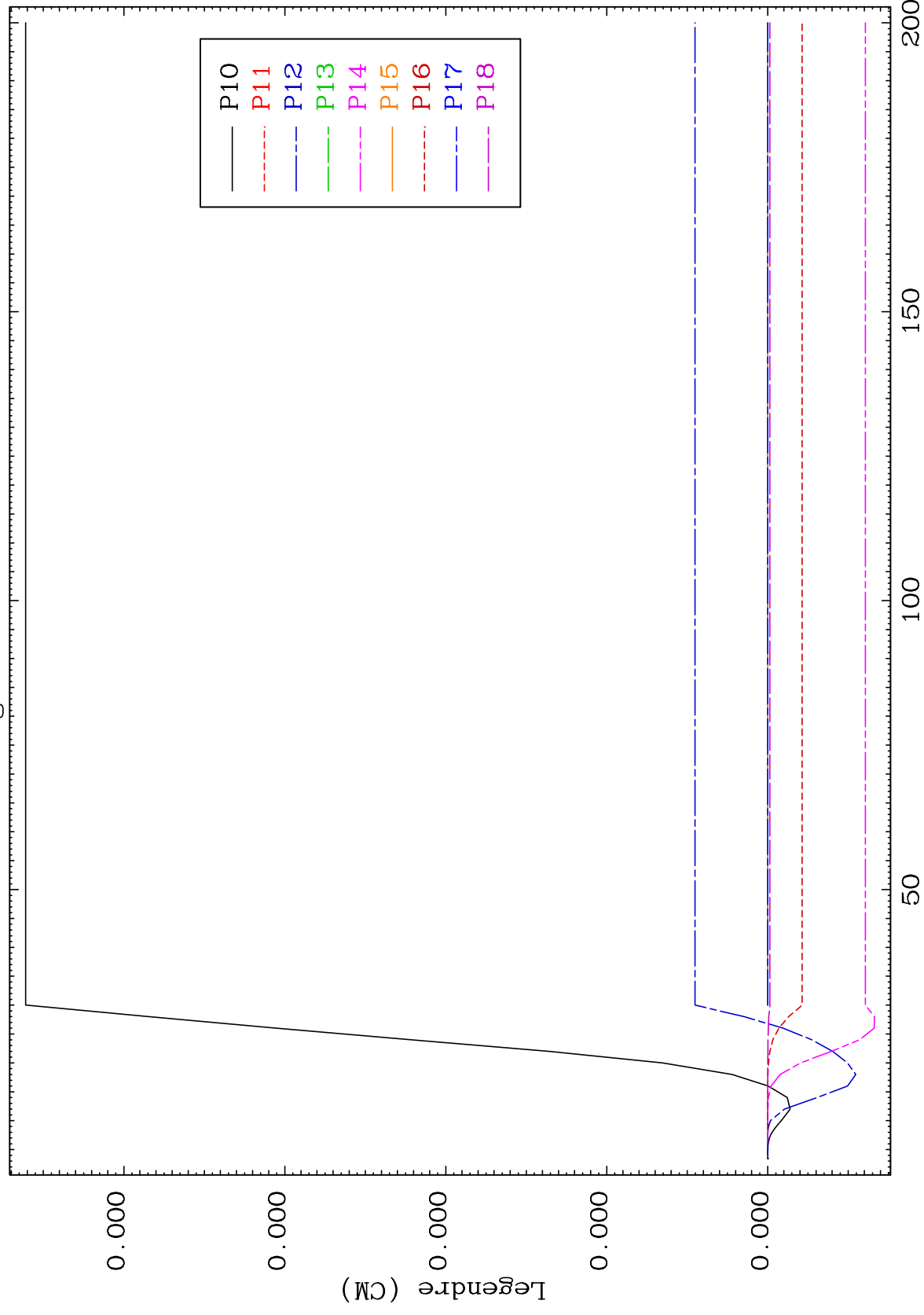




MAT 3443

3.038 MeV (n,n') Level  
Legendre Coefficients

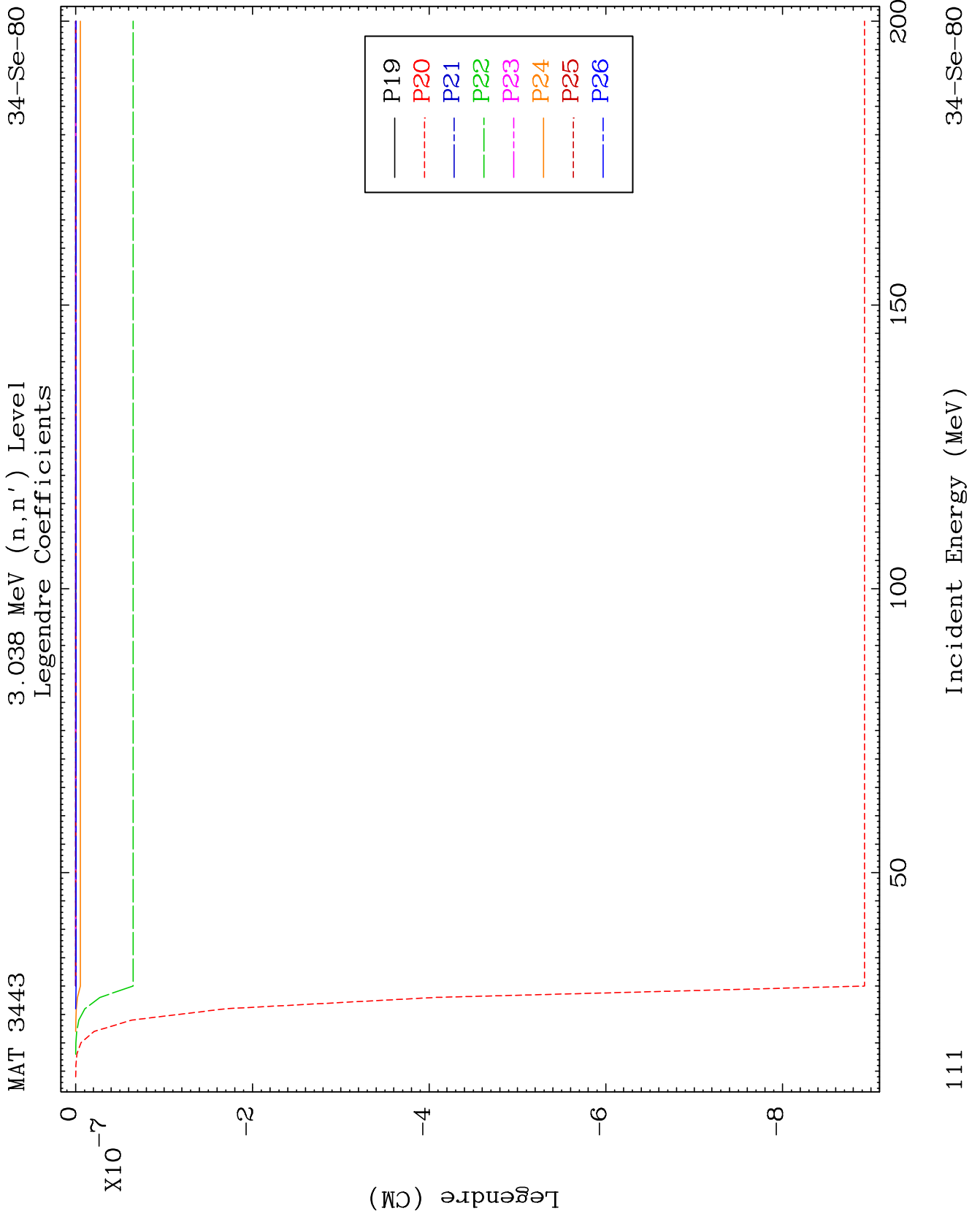
<sup>34</sup>Se-80



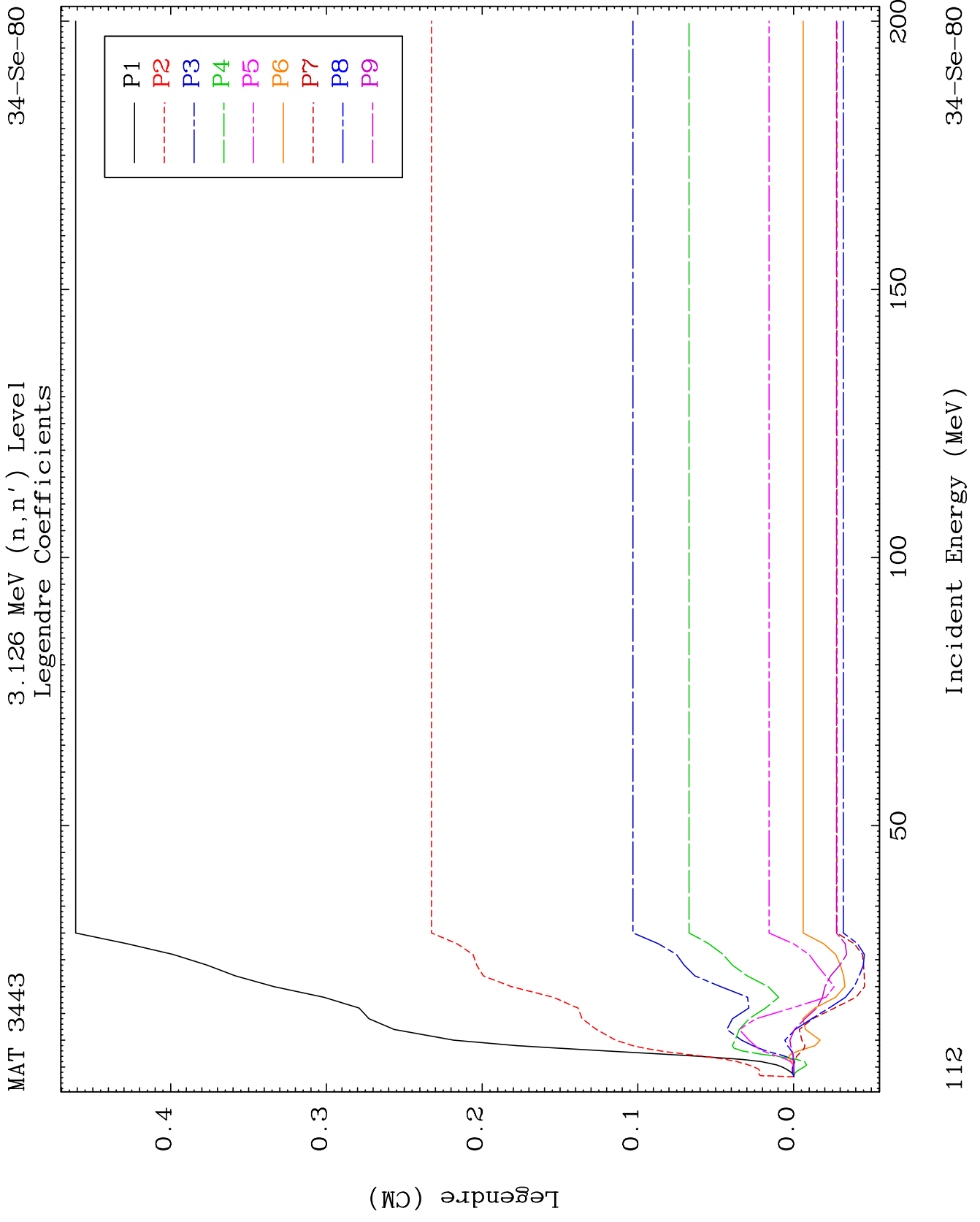
110

Incident Energy (MeV)

<sup>34</sup>Se-80



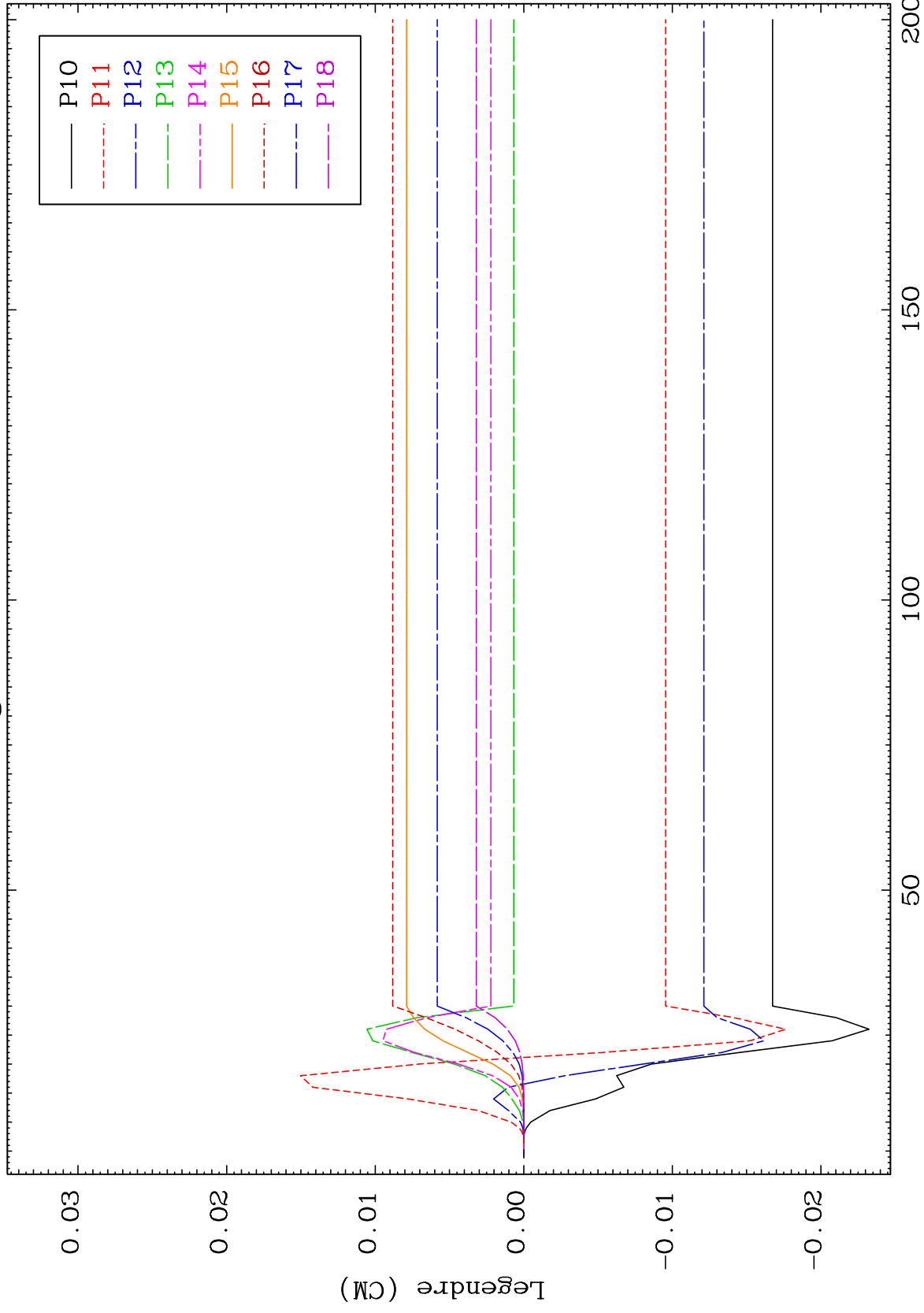




MAT 3443

3.126 MeV (n,n') Level  
Legendre Coefficients

<sup>34</sup>Se-80



113

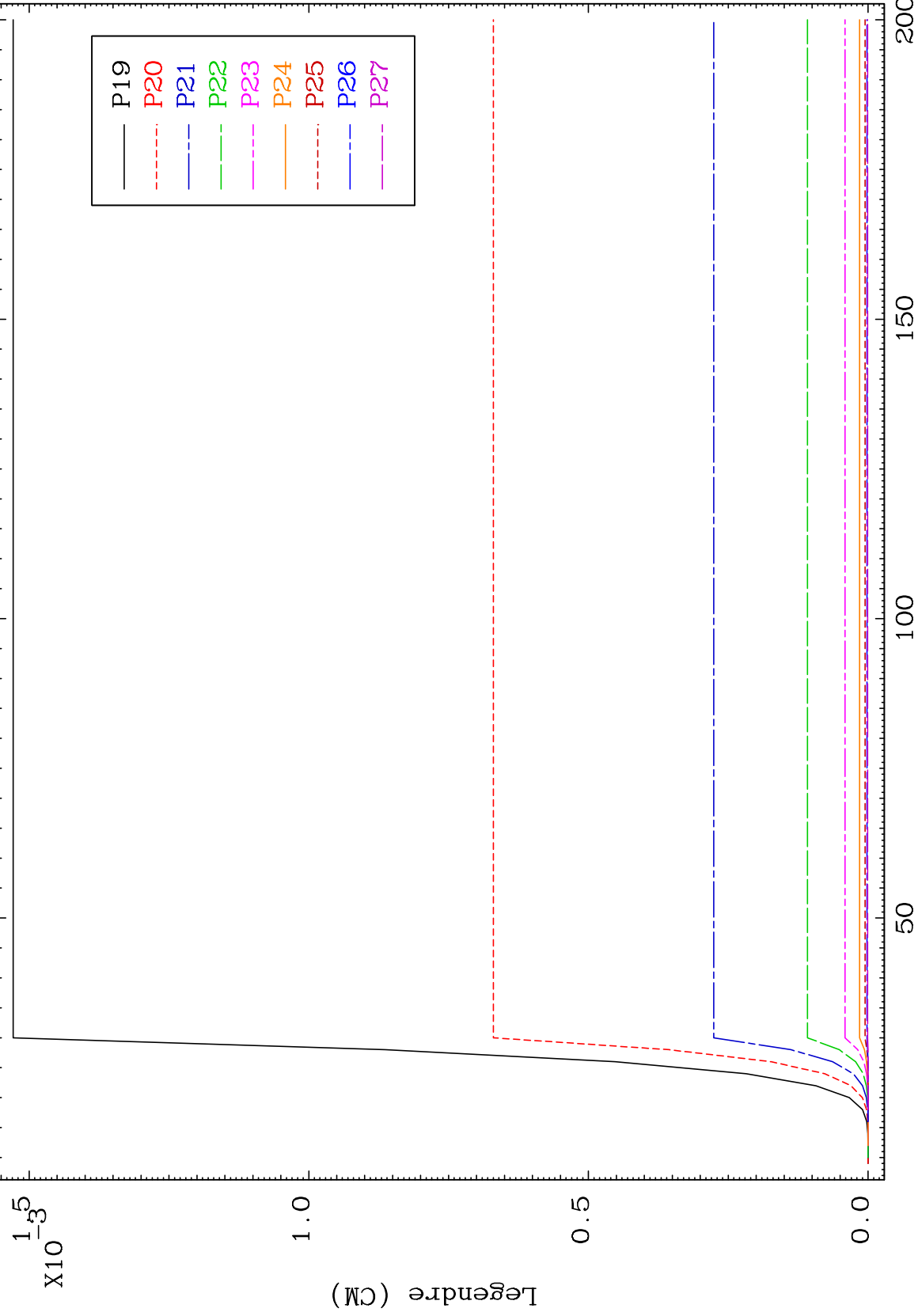
Incident Energy (MeV)

<sup>34</sup>Se-80

MAT 3443

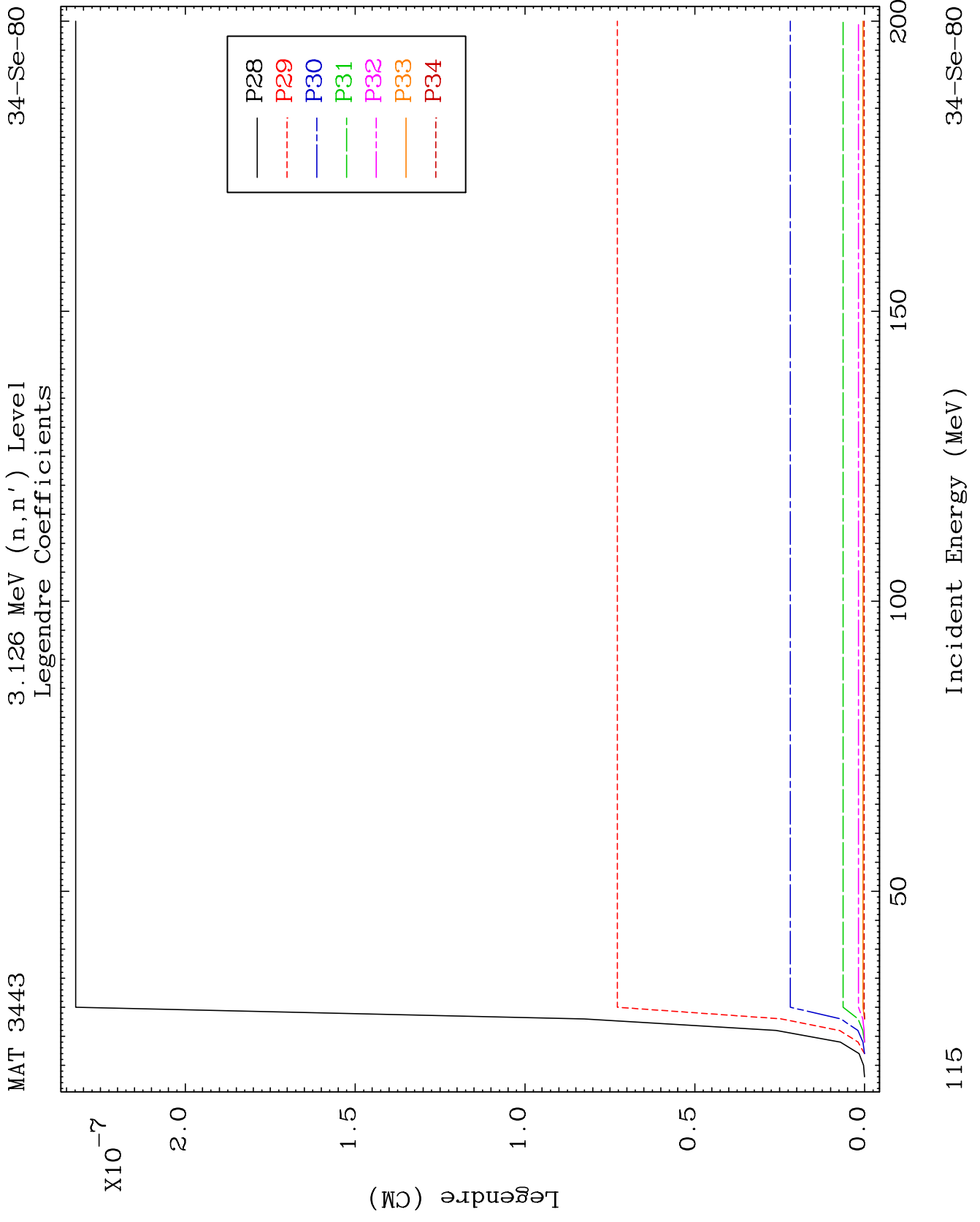
3.126 MeV (n,n') Level  
Legendre Coefficients

34-Se-80



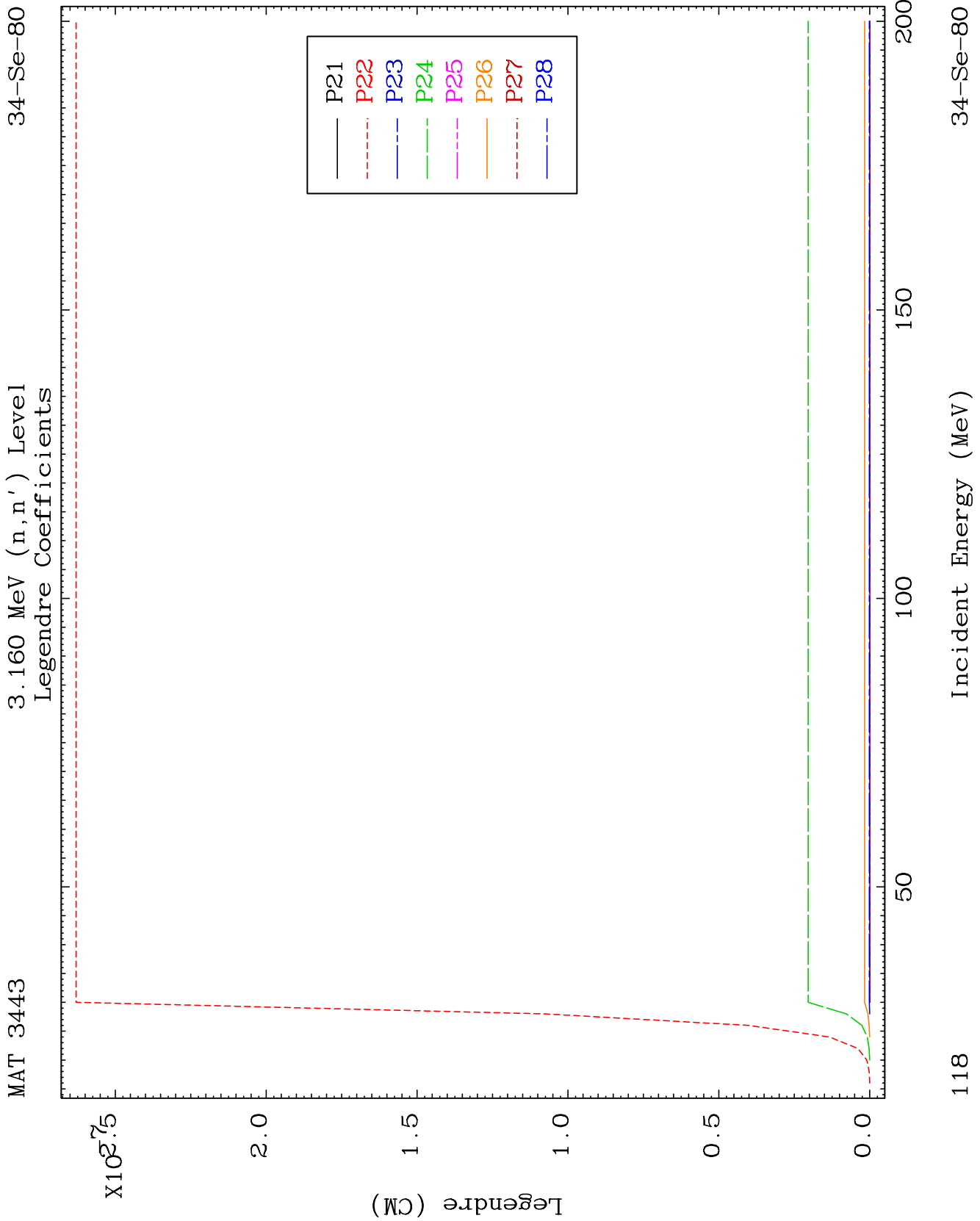
114

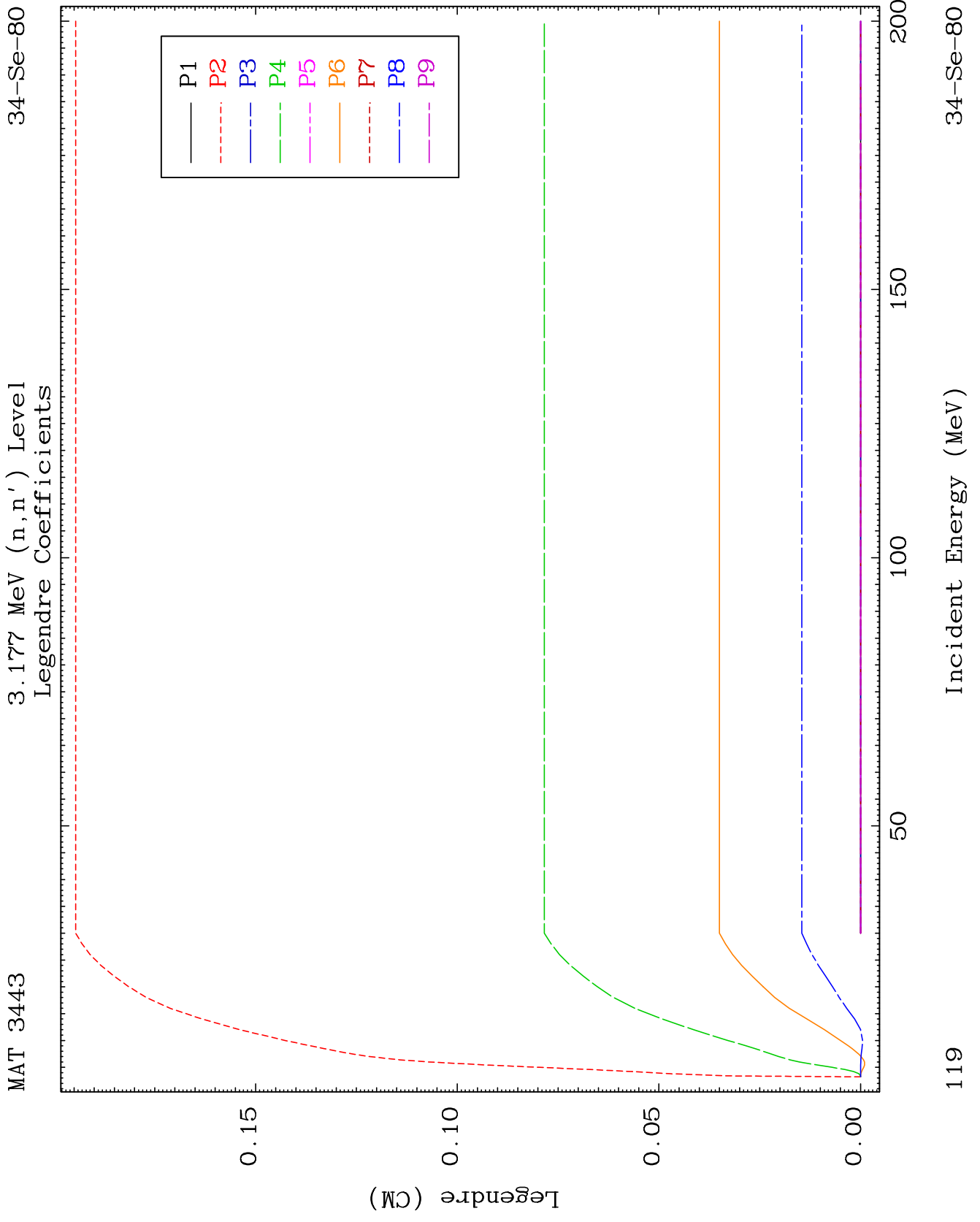
34-Se-80









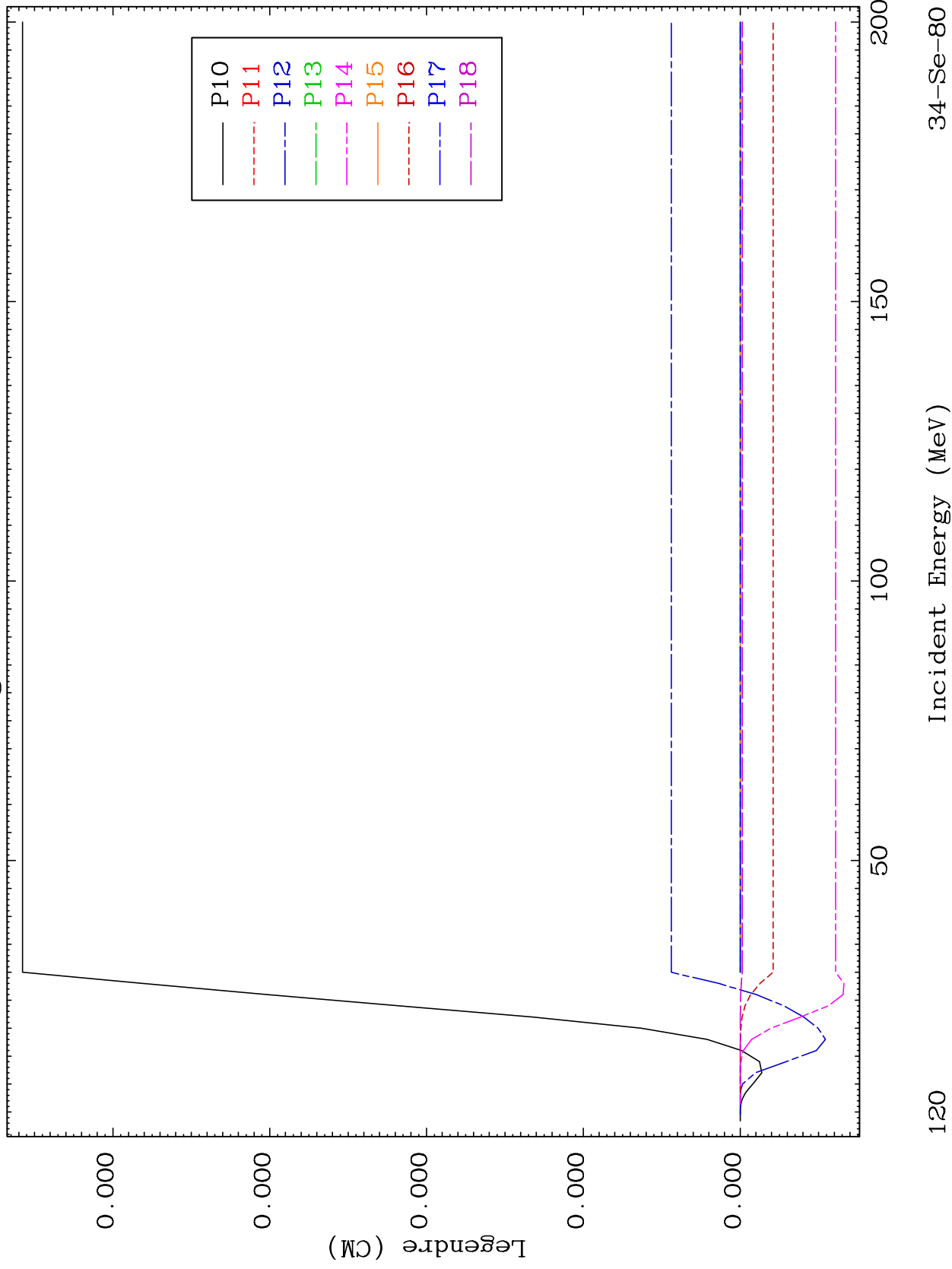




MAT 3443

3.177 MeV (n,n') Level  
Legendre Coefficients

<sup>34</sup>Se-80



120

Incident Energy (MeV)

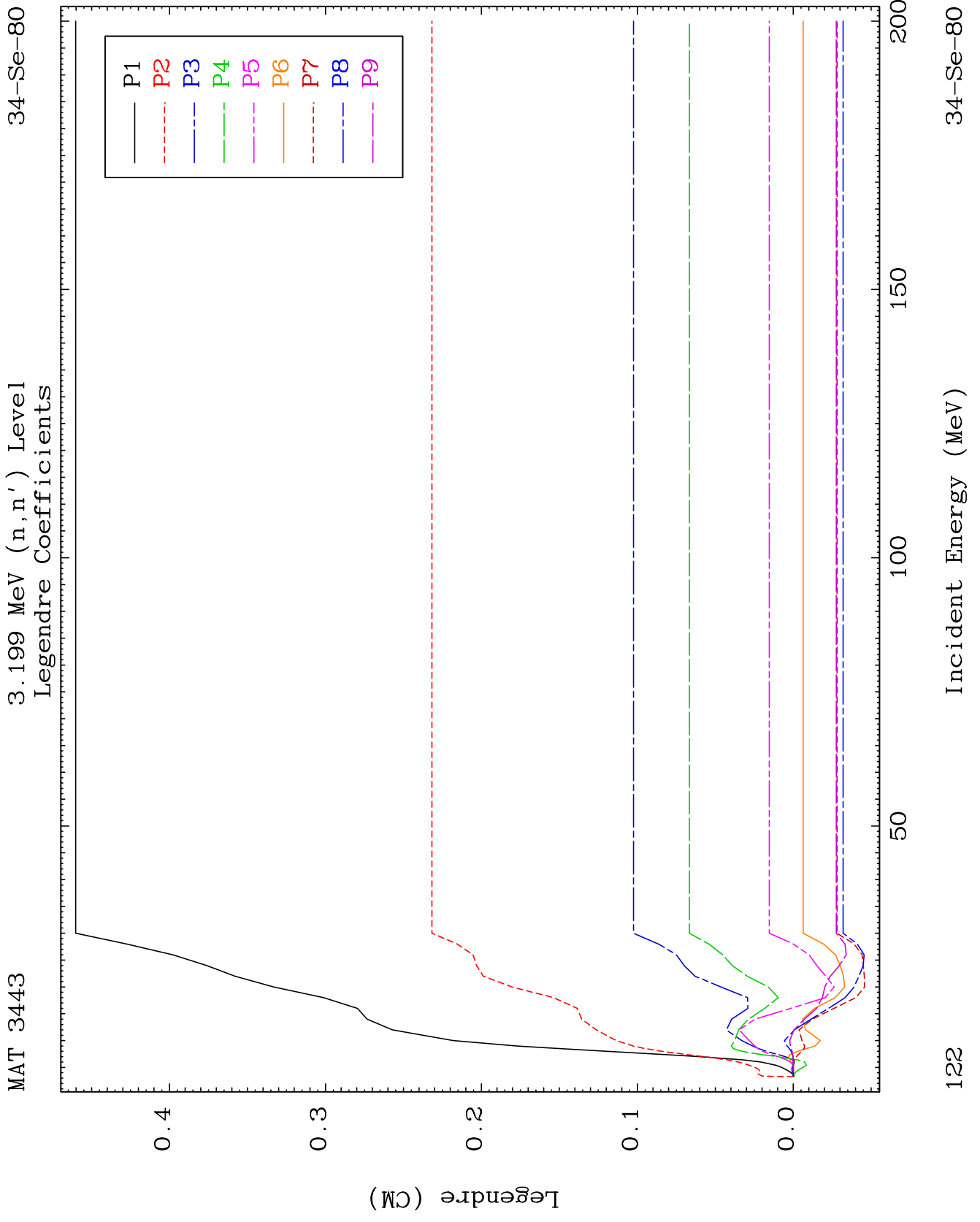
50

100

150

200

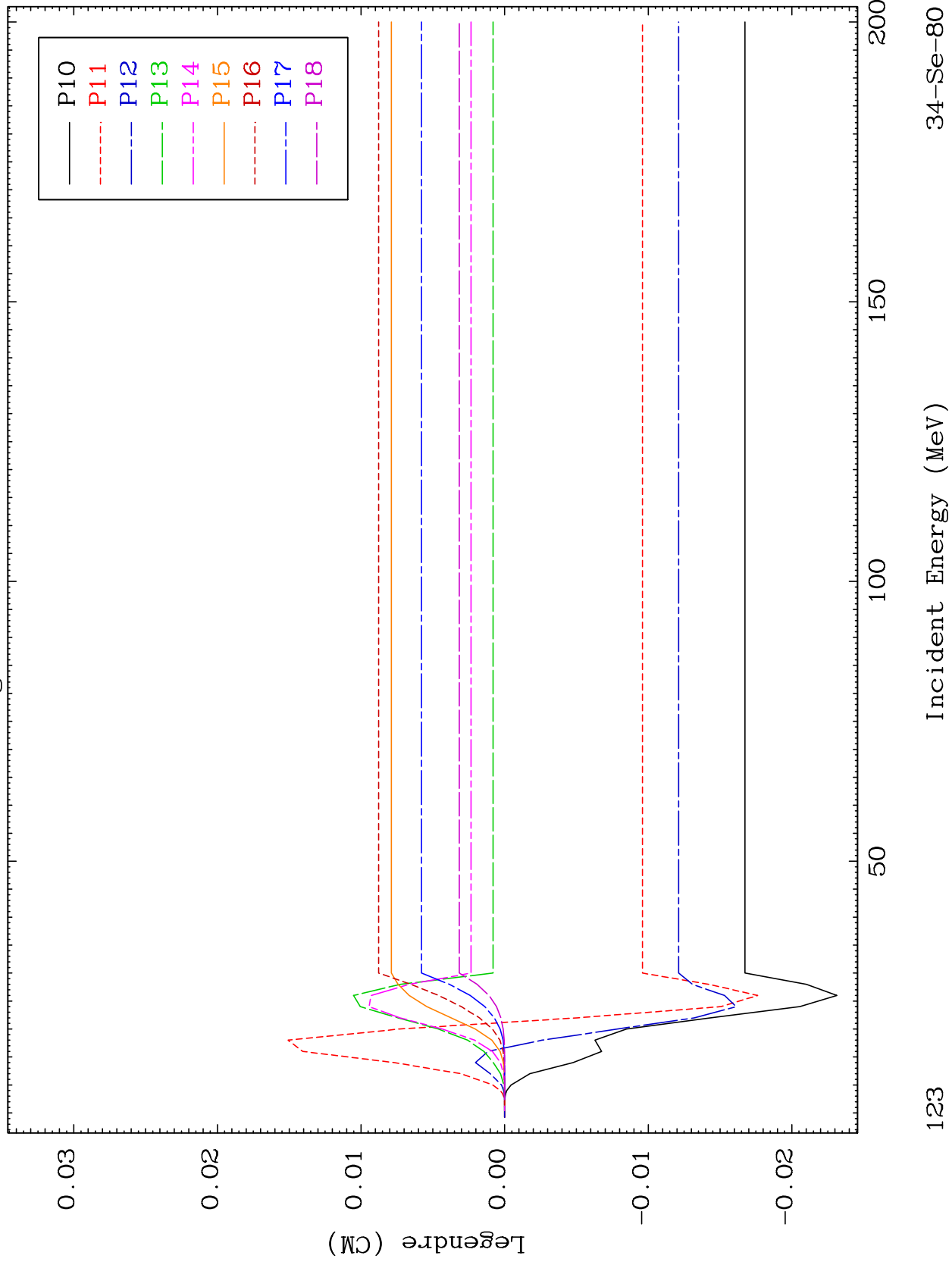




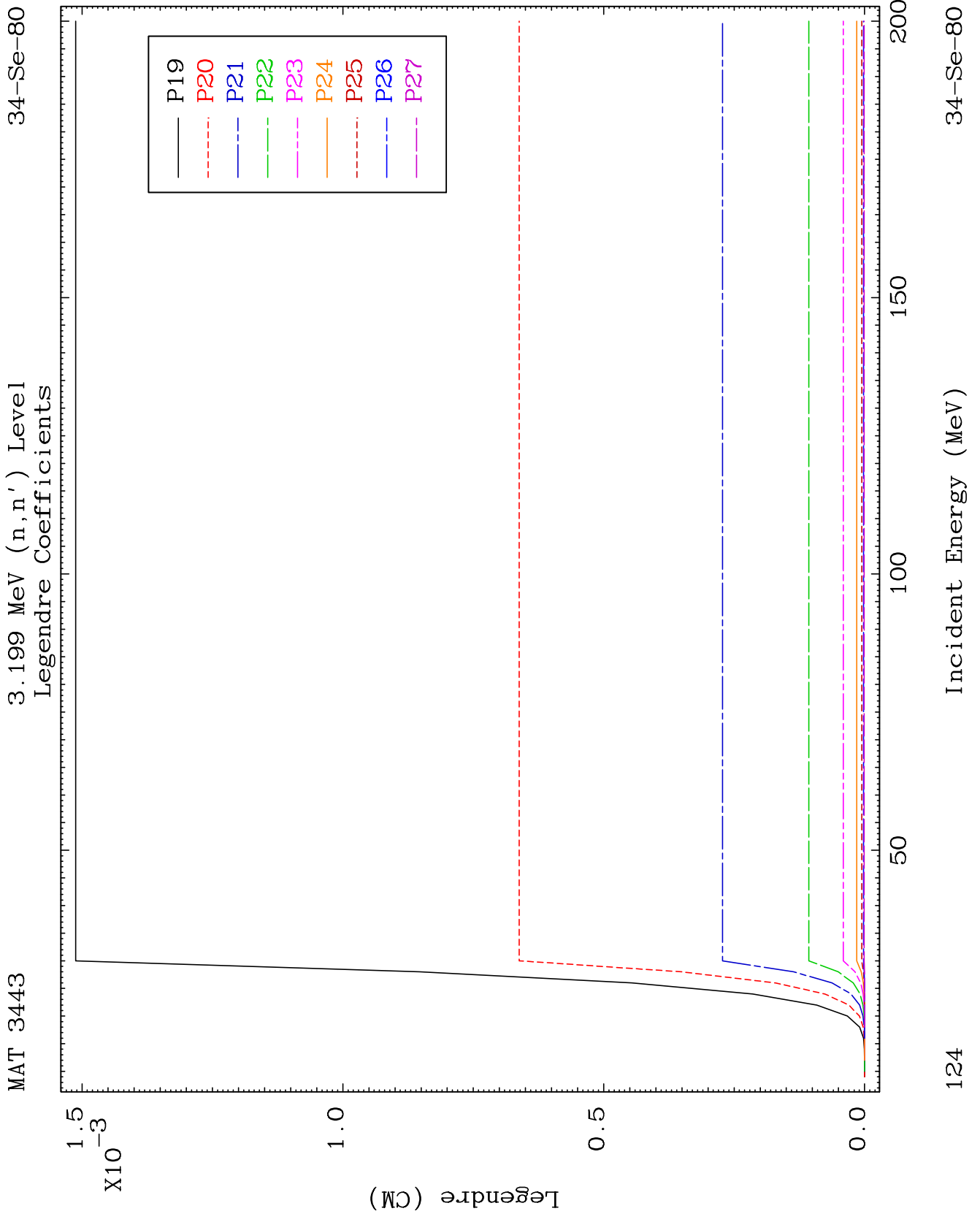
MAT 3443

3.199 MeV (n,n') Level  
Legendre Coefficients

<sup>34</sup>Se-80



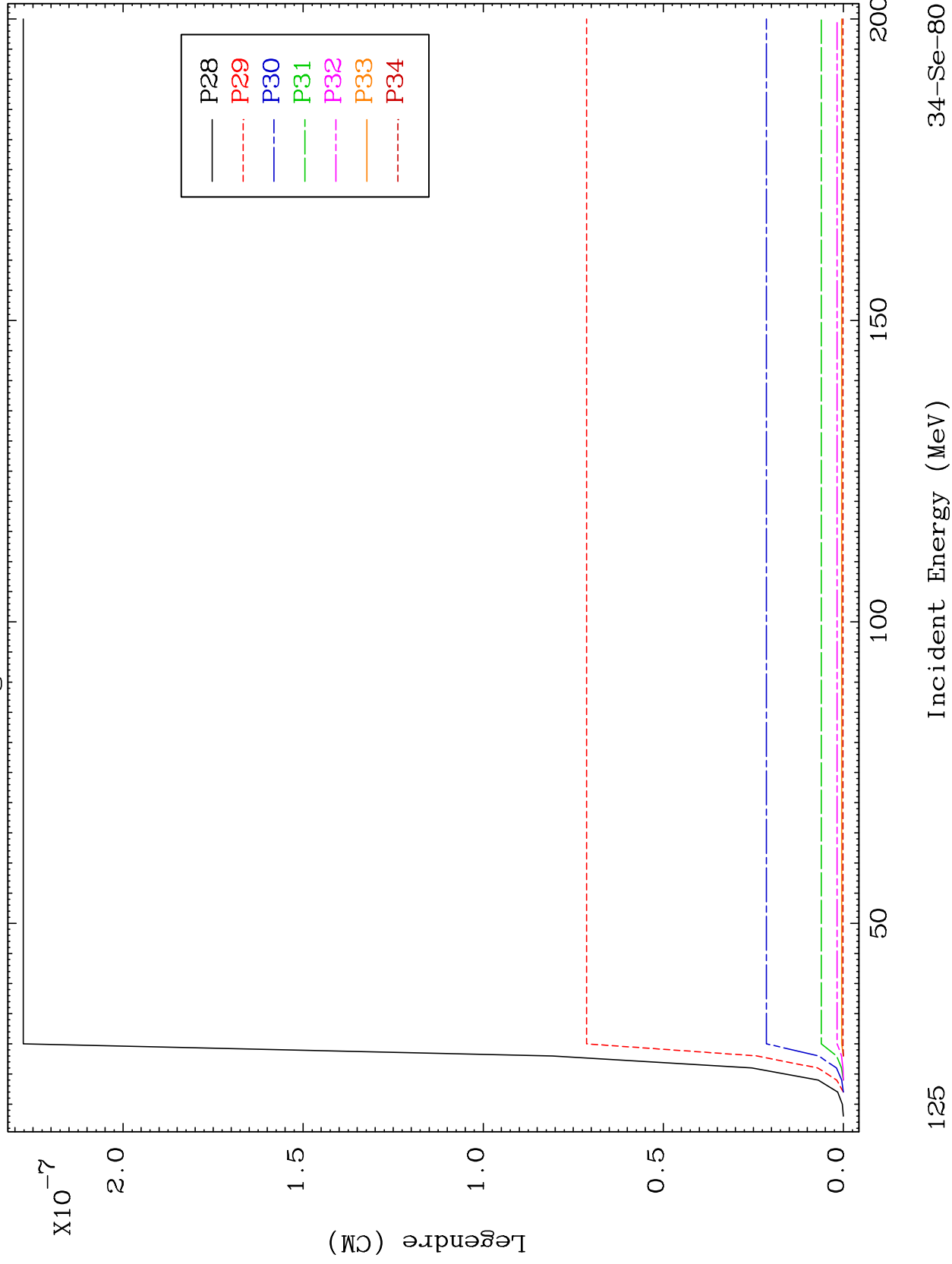
123

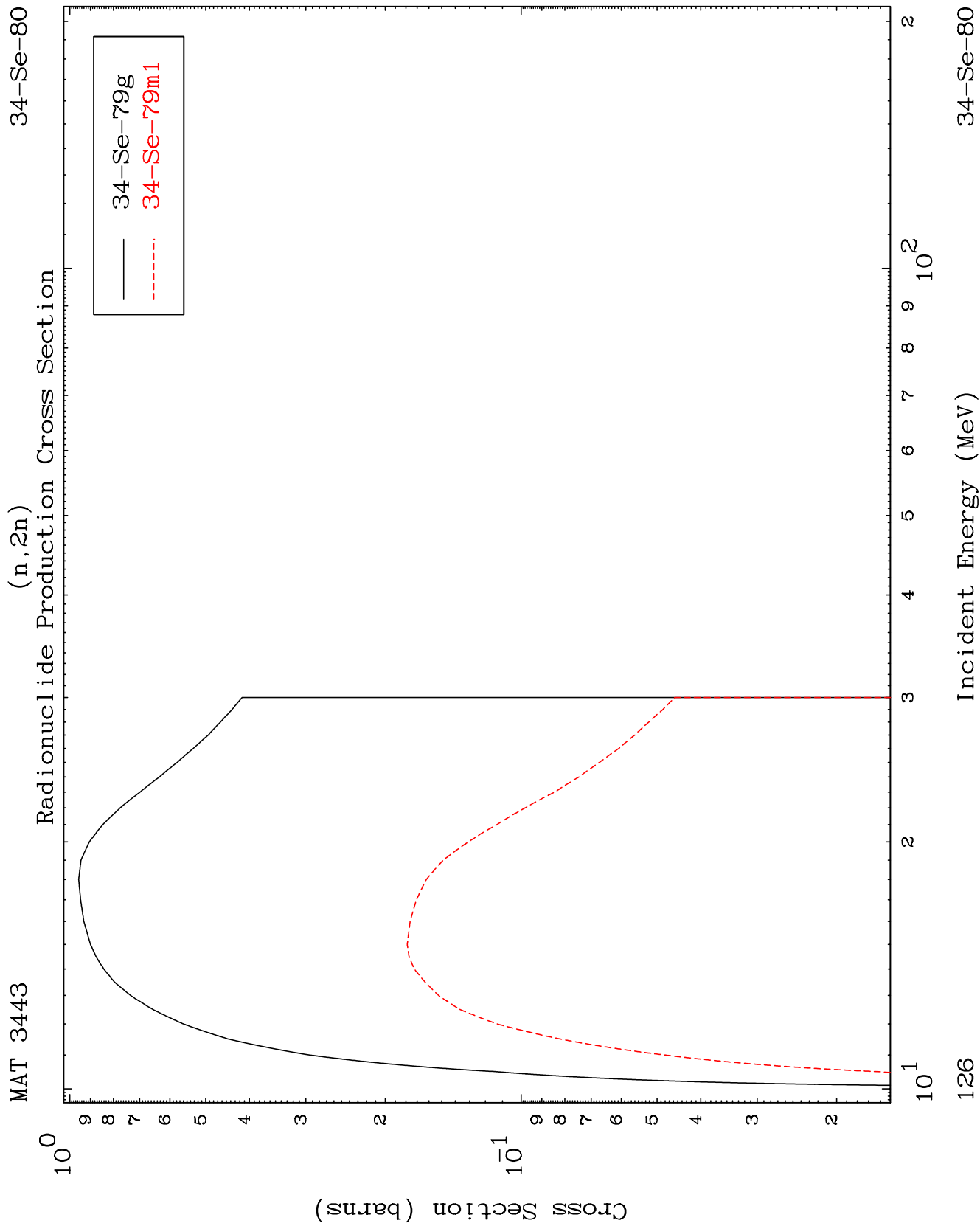


MAT 3443

3.199 MeV (n,n') Level  
Legendre Coefficients

34-Se-80

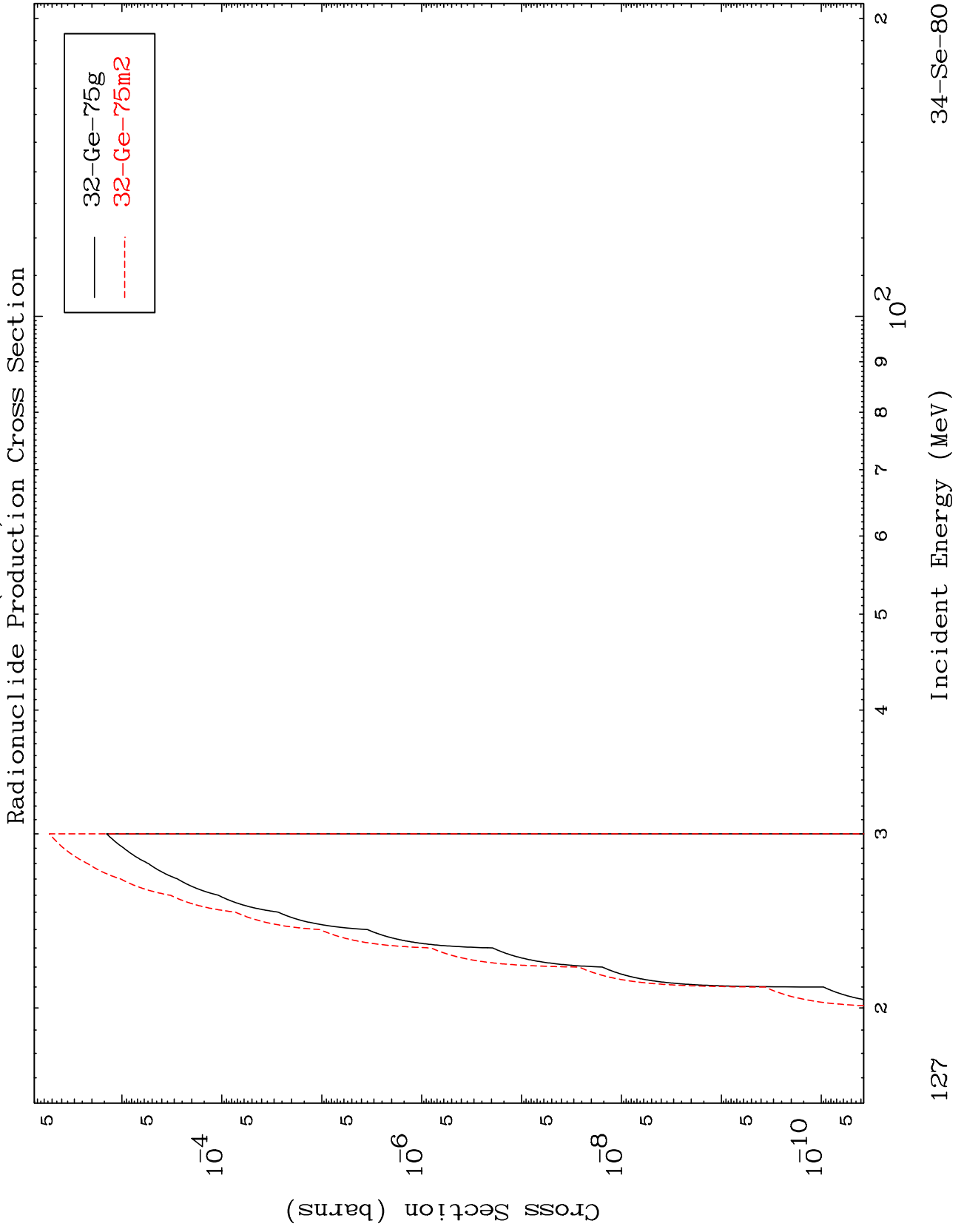




MAT 3443

$(n,2n) \alpha$

$^{34}\text{Se-80}$



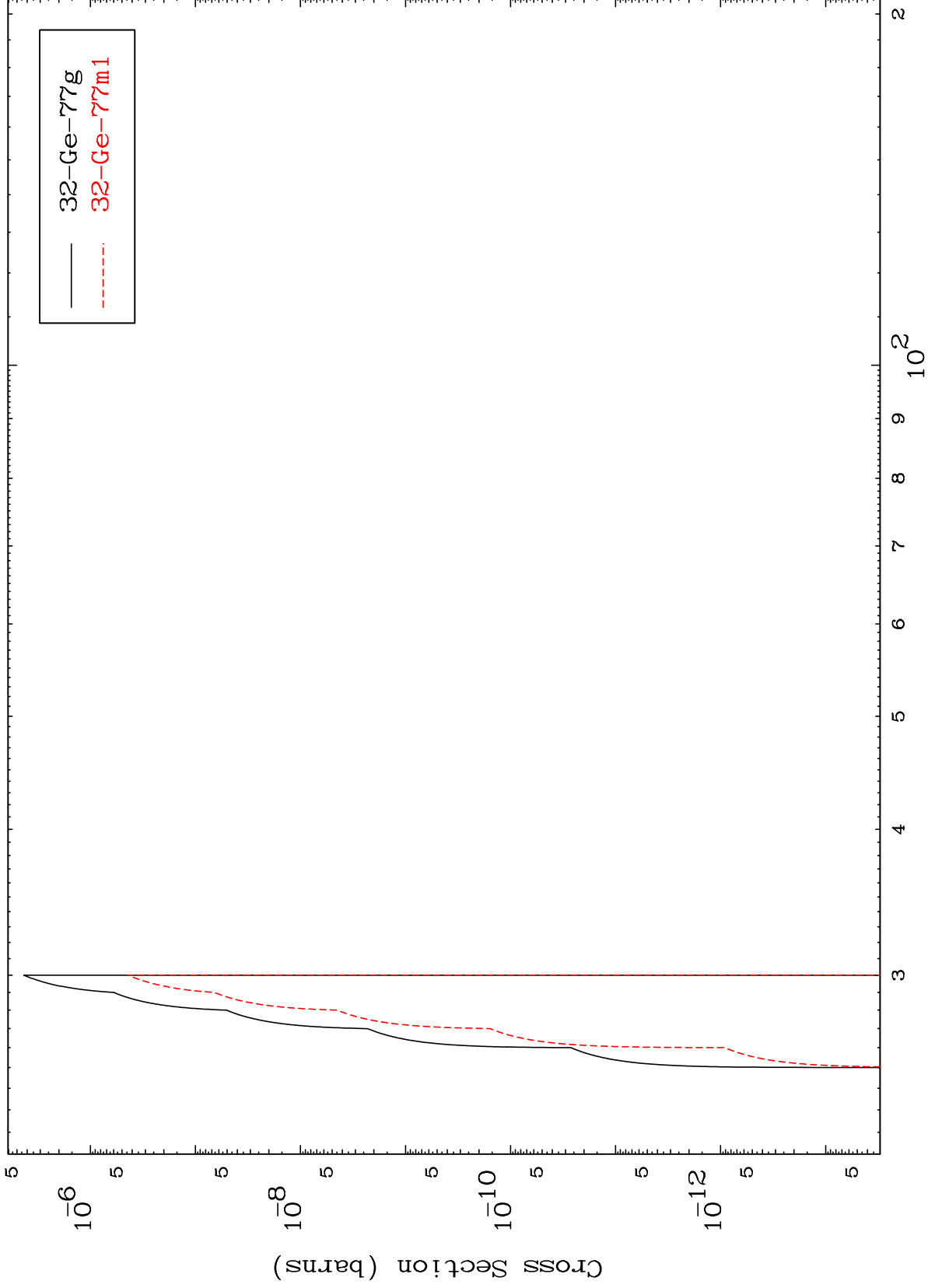


MAT 3443

(n,n') He-3

34-Ge-80

Radionuclide Production Cross Section



128

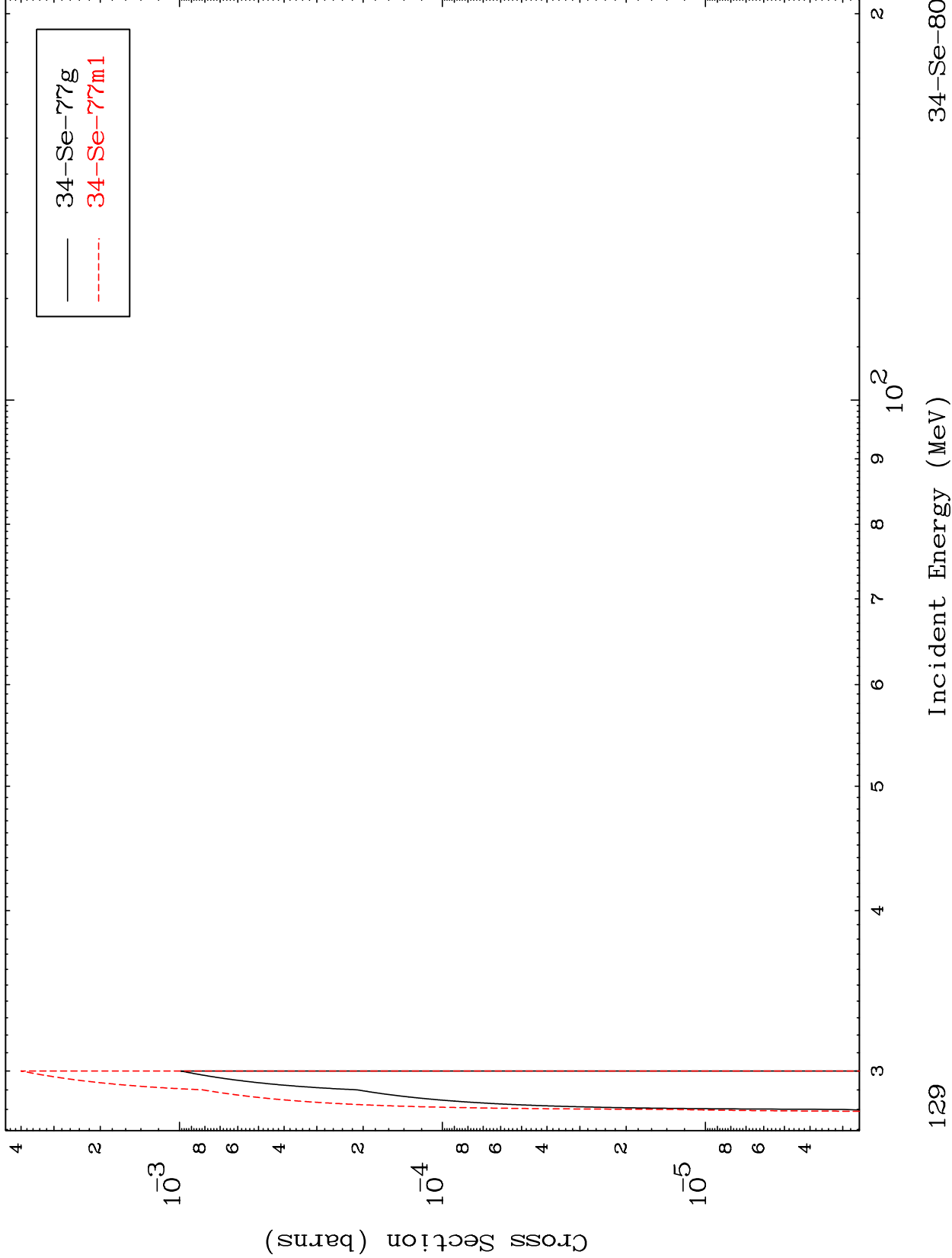
Incident Energy (MeV)

34-Ge-80

MAT 3443

<sup>34</sup>Se-80

(n,4n)  
Radionuclide Production Cross Section



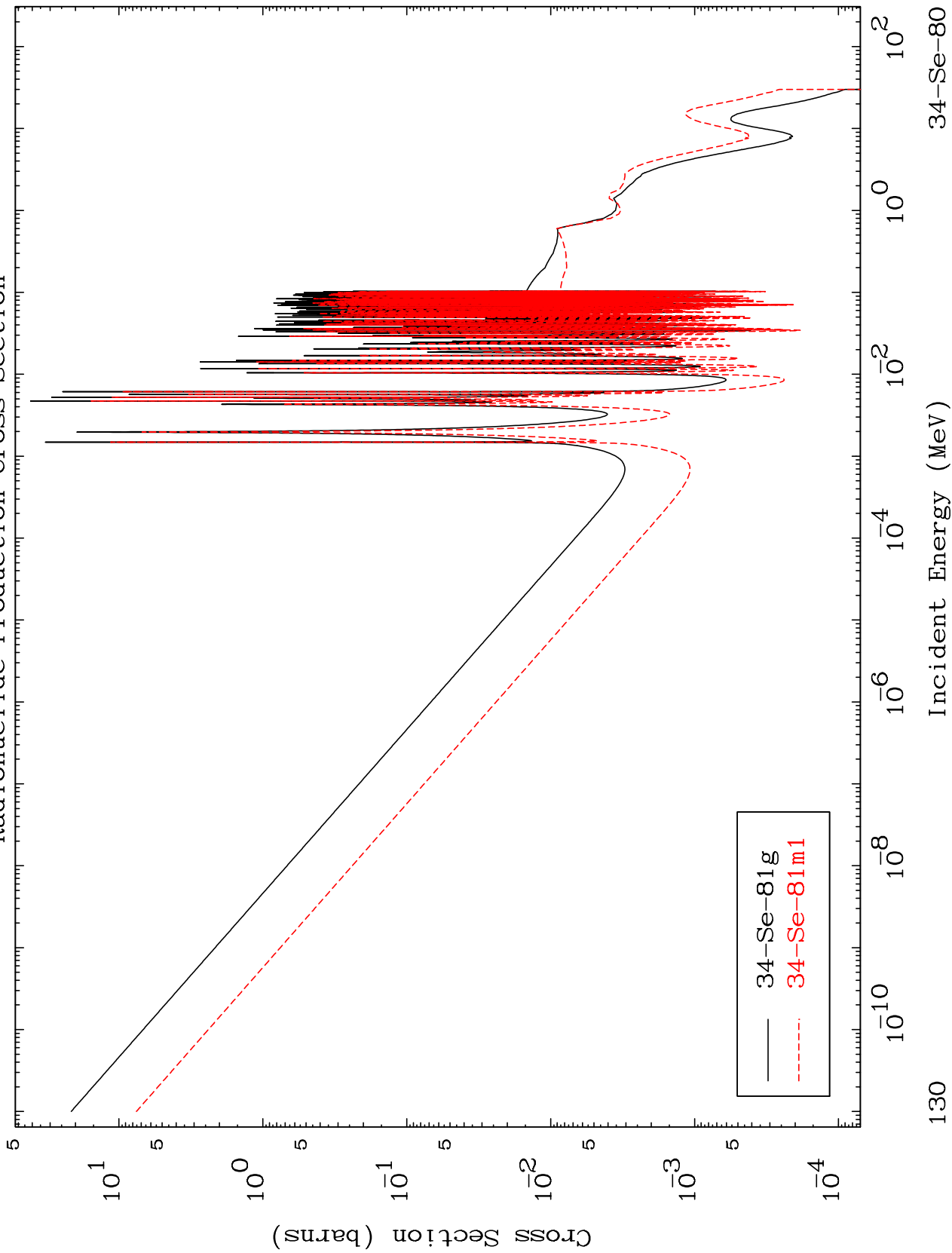
129

<sup>34</sup>Se-80

MAT 3443

<sup>34</sup>Se-80

(n,γ)  
Radionuclide Production Cross Section



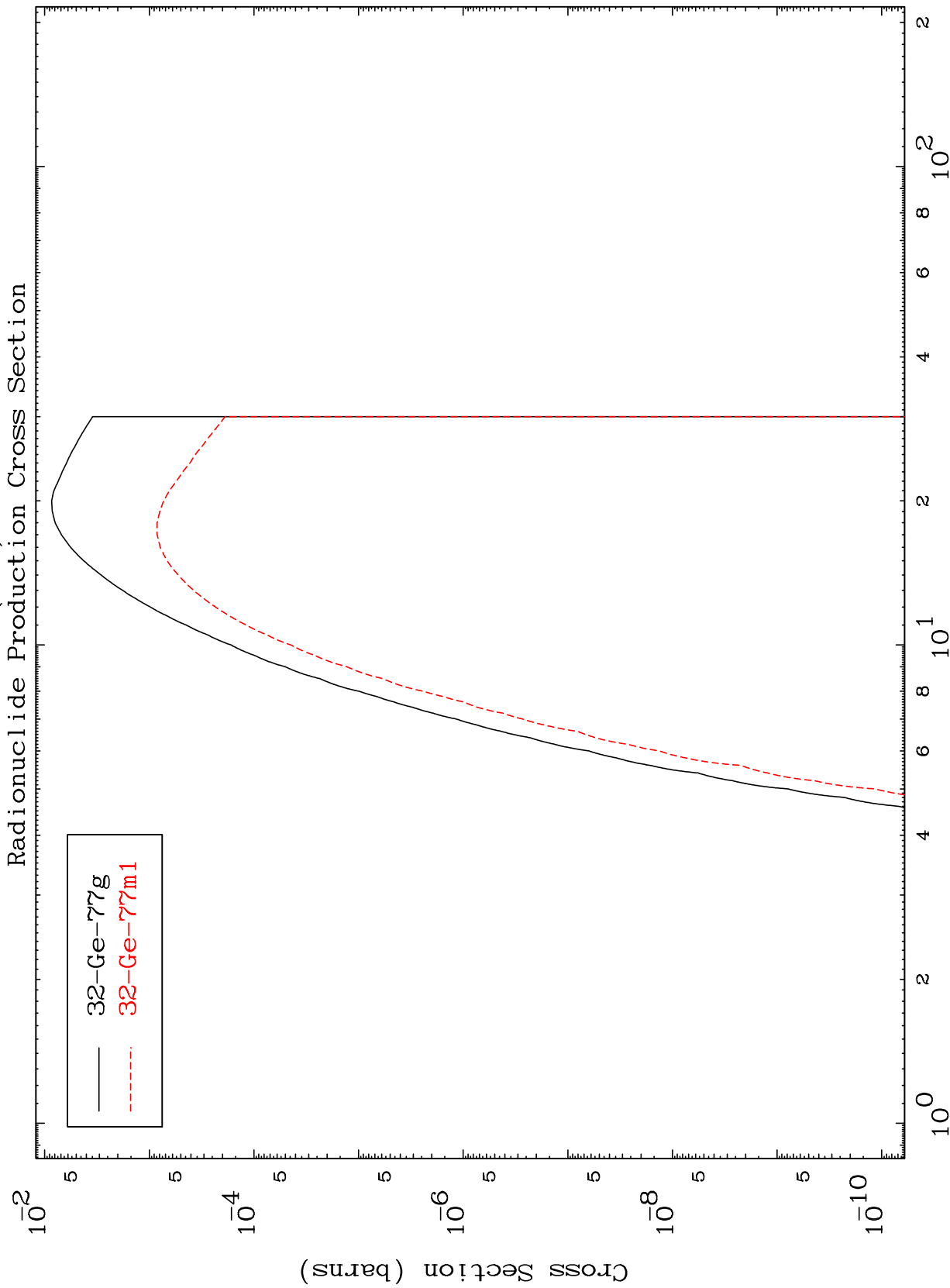
130

<sup>34</sup>Se-80

MAT 3443

<sup>34</sup>Se-80

Radionuclide Production Cross Section (n,α)



— 32-Ge-77g  
- - - 32-Ge-77m1

Incident Energy (MeV)

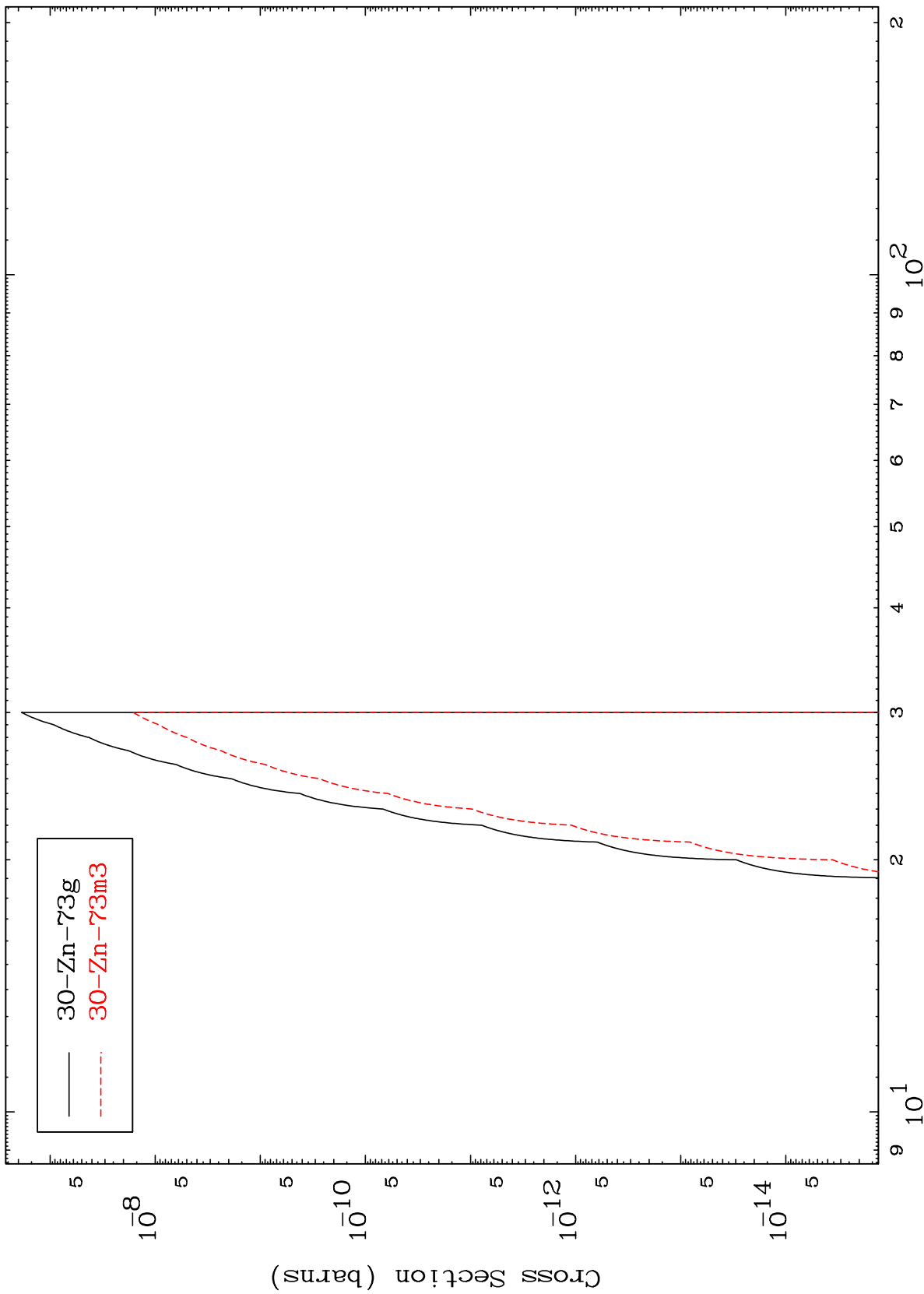
<sup>34</sup>Se-80

131

MAT 3443

<sup>34</sup>Se-80

Radionuclide Production Cross Section  
(n,2α)



— 30-Zn-73g  
- - - 30-Zn-73m3

Incident Energy (MeV)

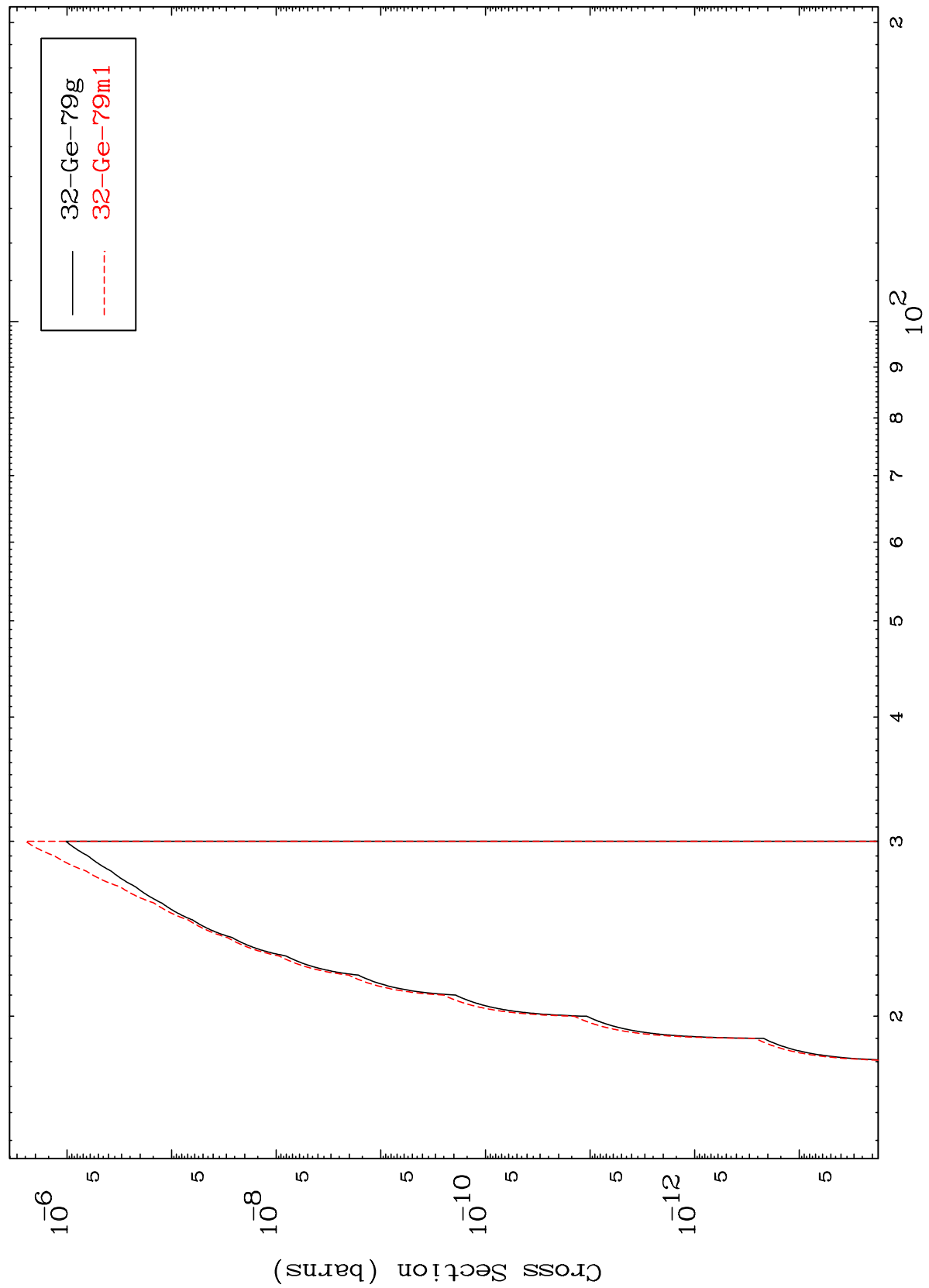
<sup>34</sup>Se-80

132

MAT 3443

34-<sup>Se-80</sup>

(n,2p)  
Radionuclide Production Cross Section



133

34-<sup>Se-80</sup>

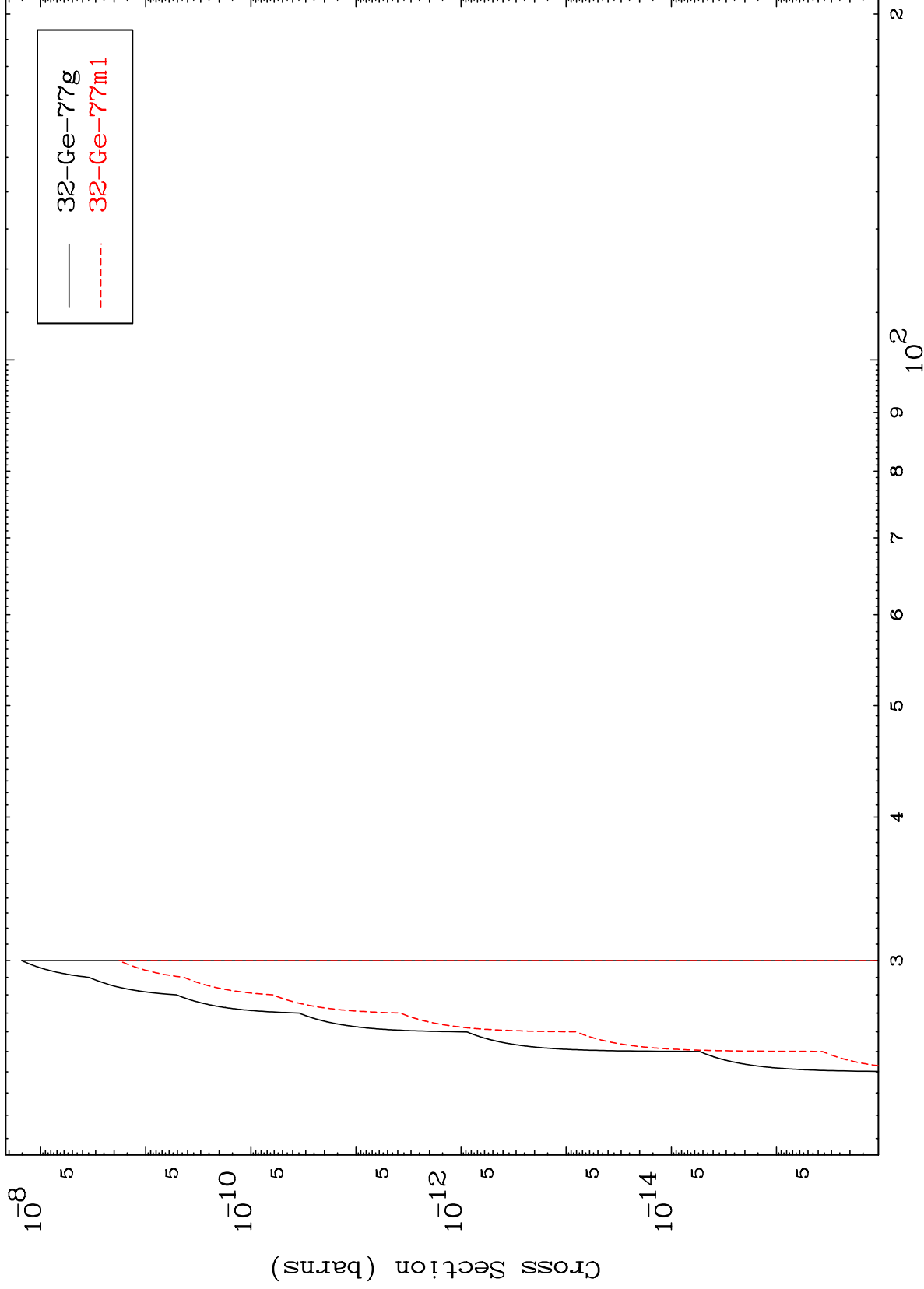
Incident Energy (MeV)

MAT 3443

(n,p) t

<sup>34</sup>Se-80

Radionuclide Production Cross Section



134

Incident Energy (MeV)

<sup>34</sup>Se-80