

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

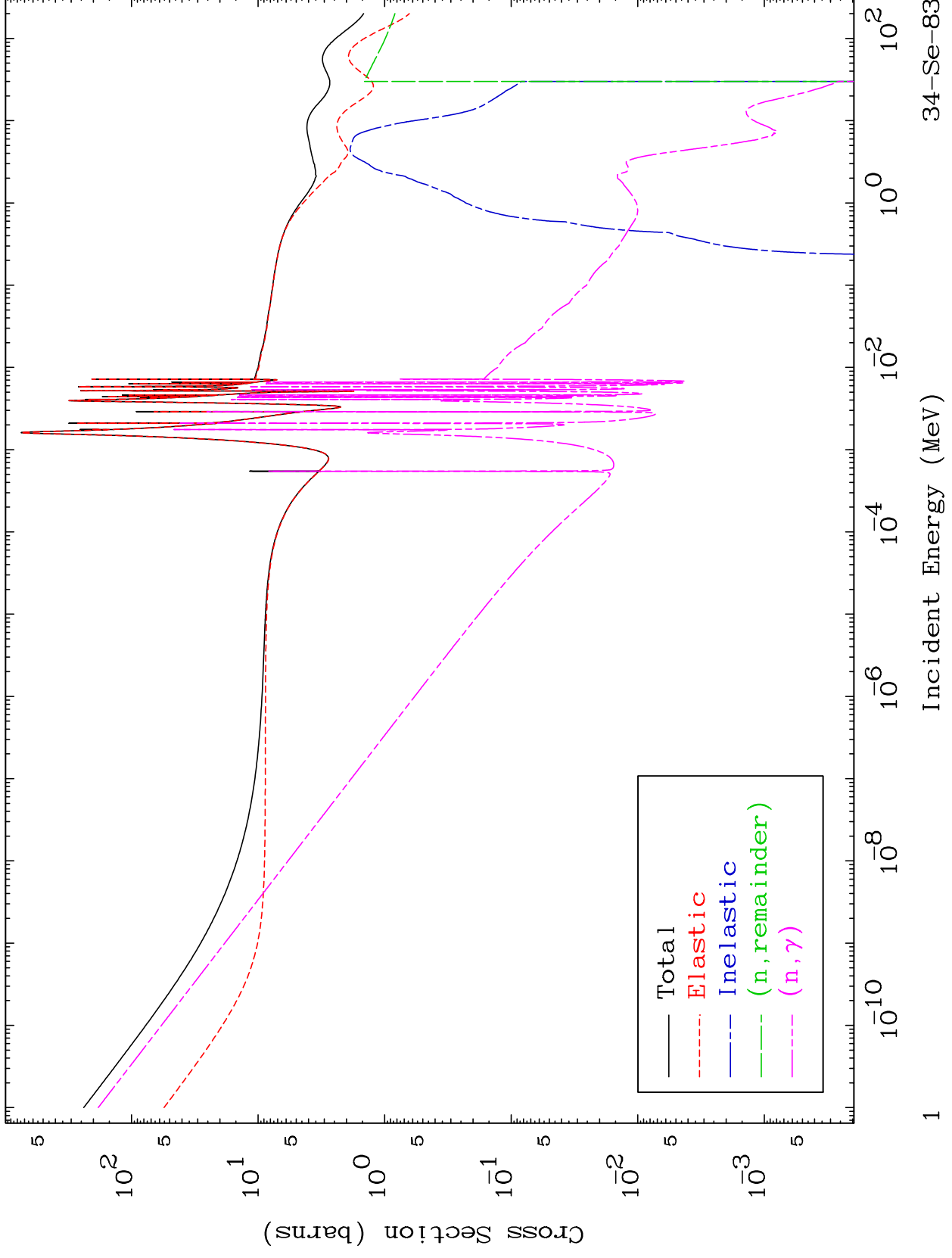
Press Mouse Button to Start

MAT 3452

Major

293 Kelvin Cross Sections

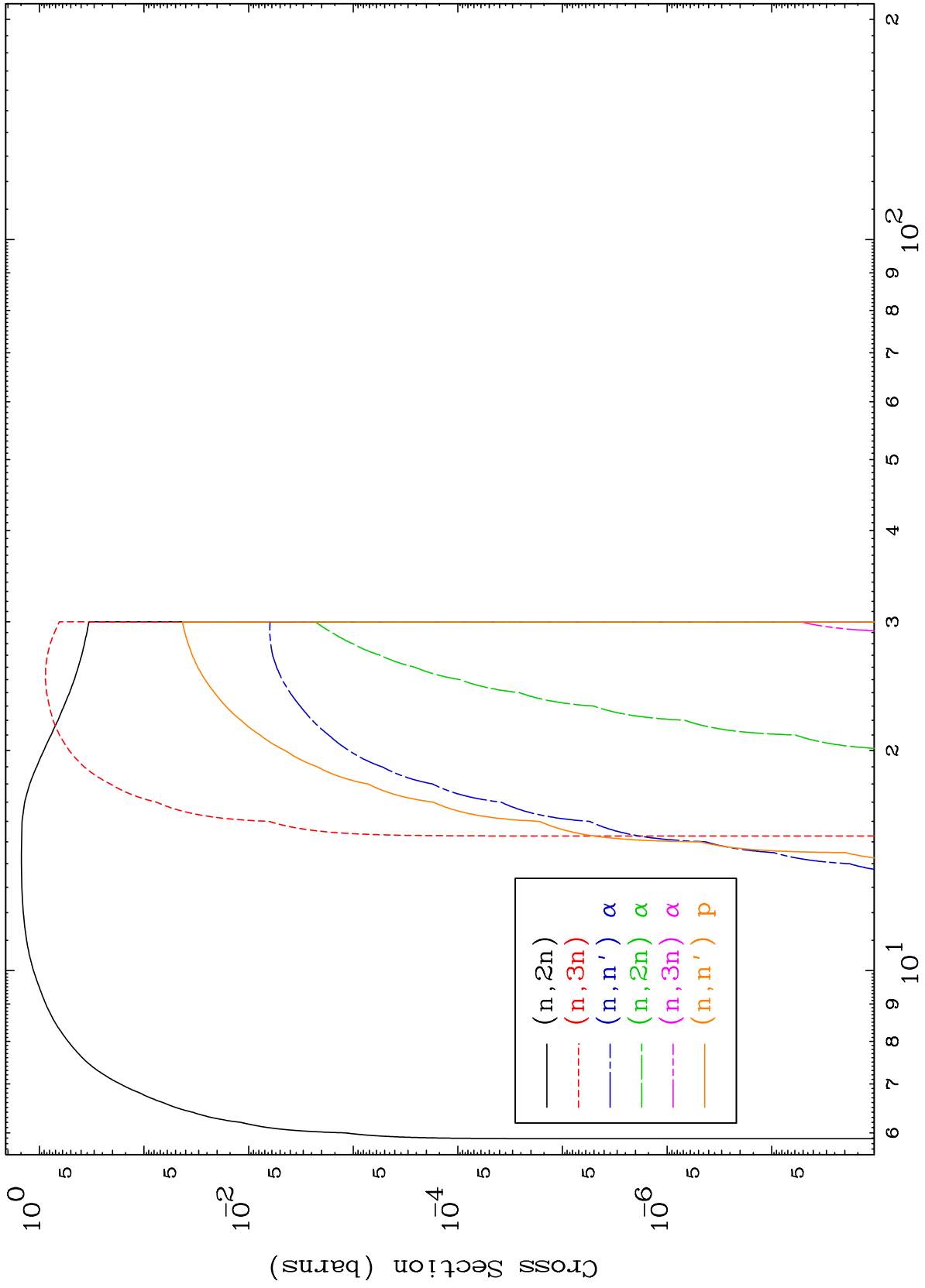
34-Se-83

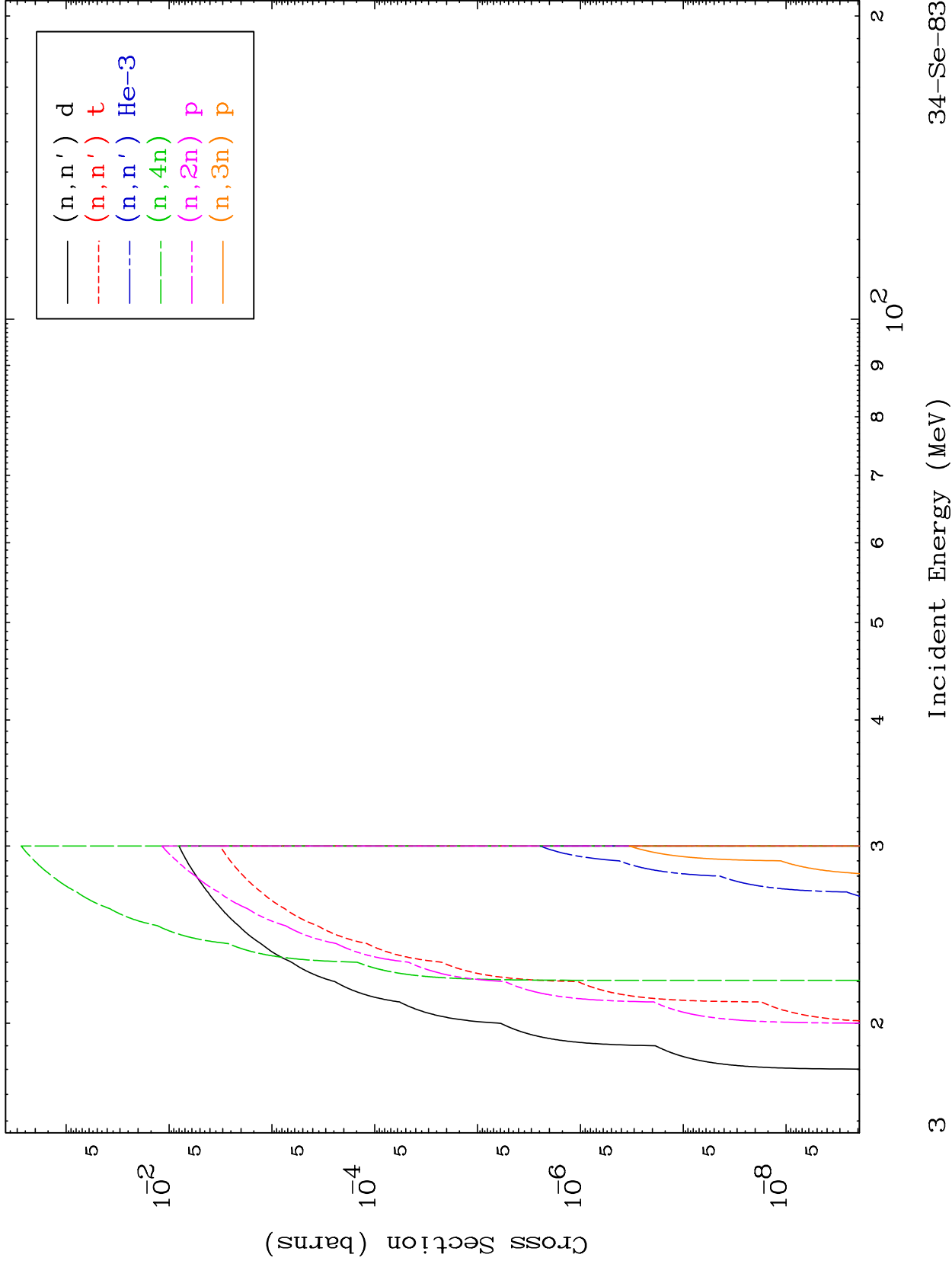


MAT 3452

Neutron Production
293 Kelvin Cross Sections

34-Se-83

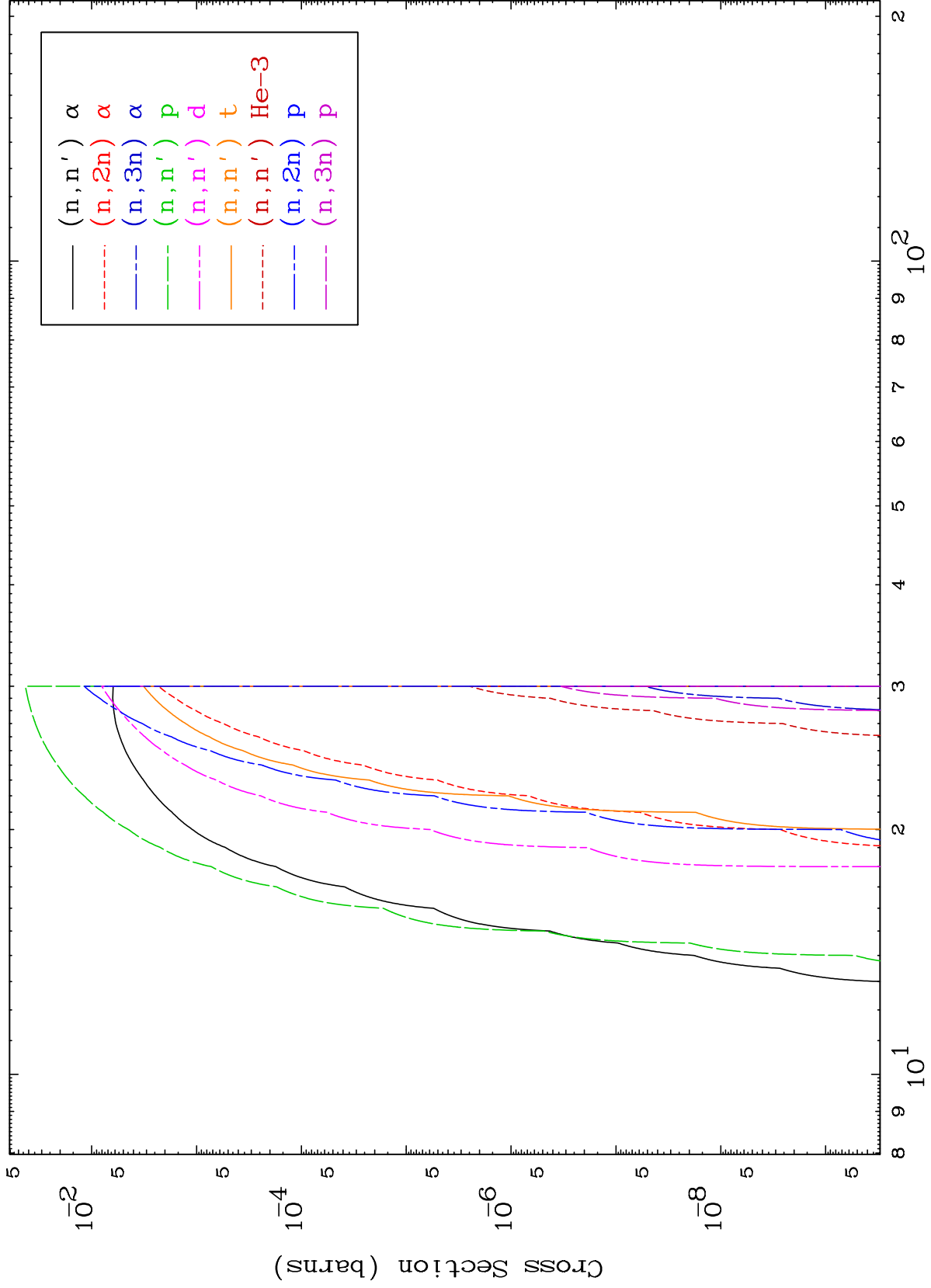




MAT 3452

Charged Particle
293 Kelvin Cross Sections

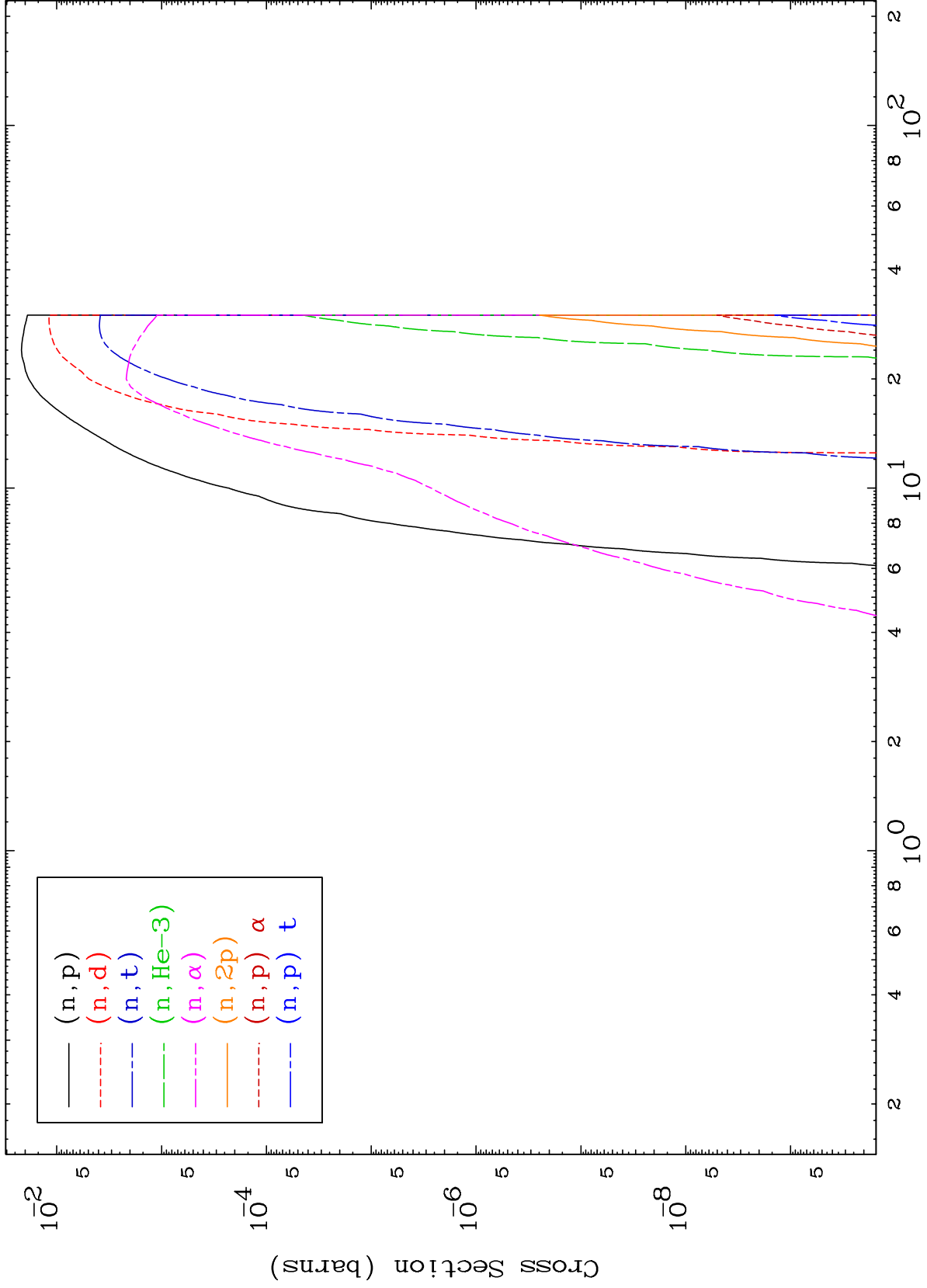
34-Se-83



4

Incident Energy (MeV)

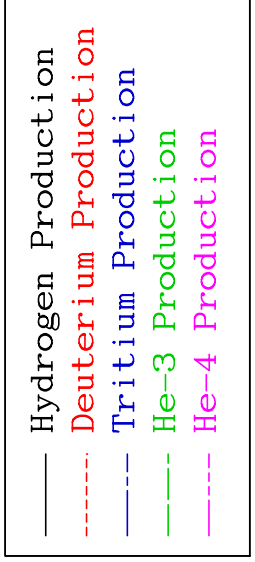
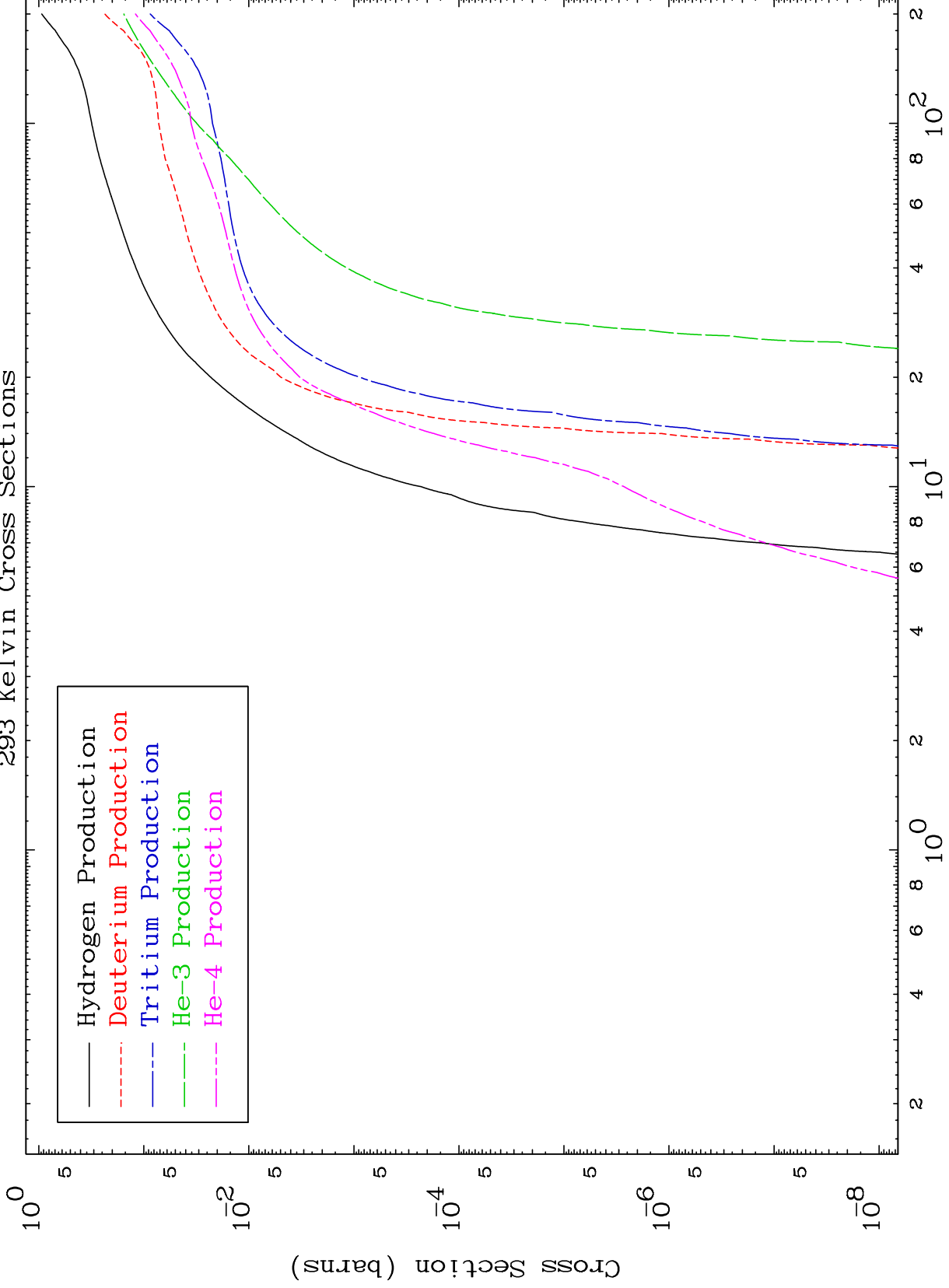
34-Se-83



MAT 3452

Particle Production
293 Kelvin Cross Sections

34-Se-83



6

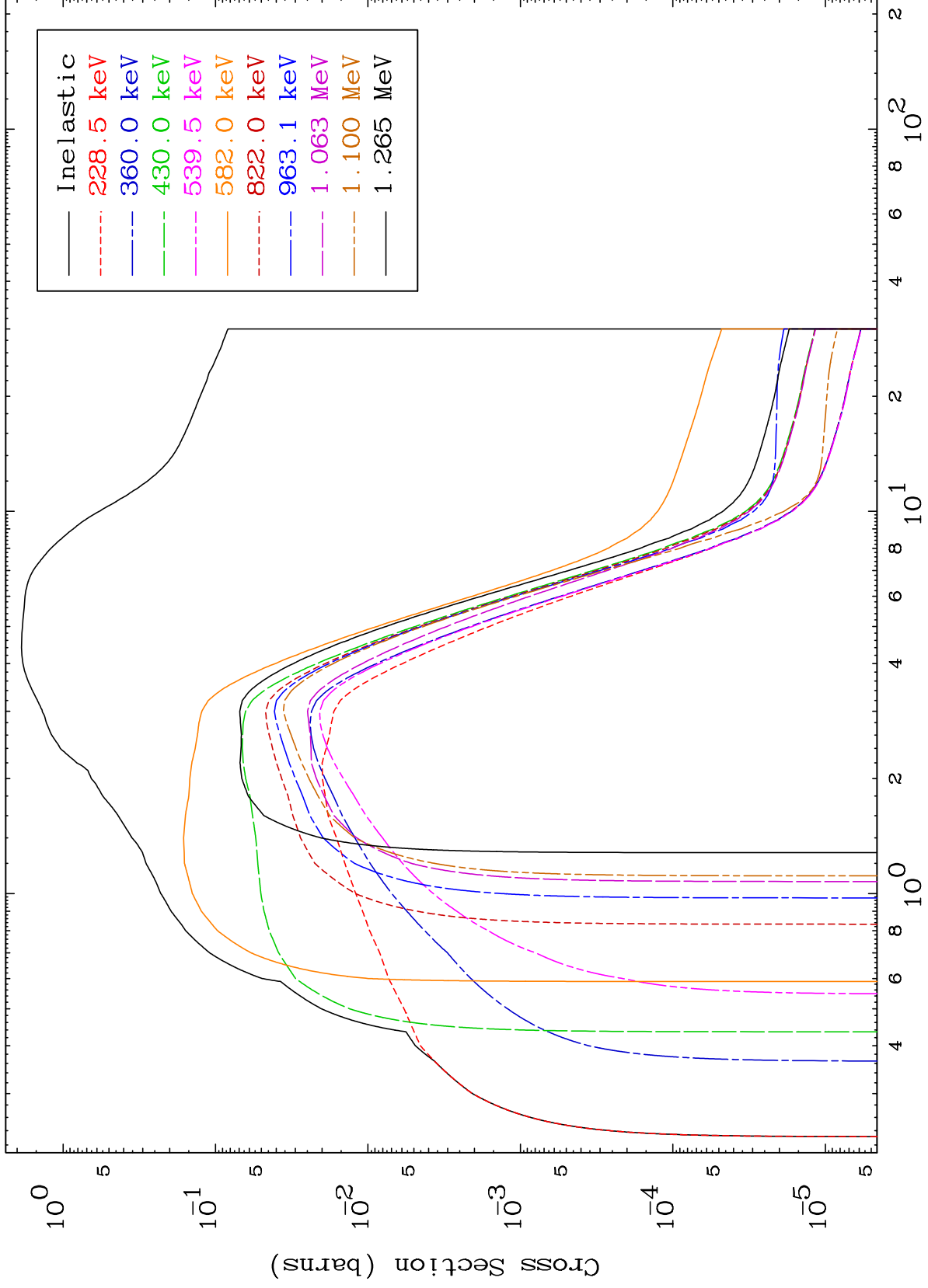
Incident Energy (MeV)

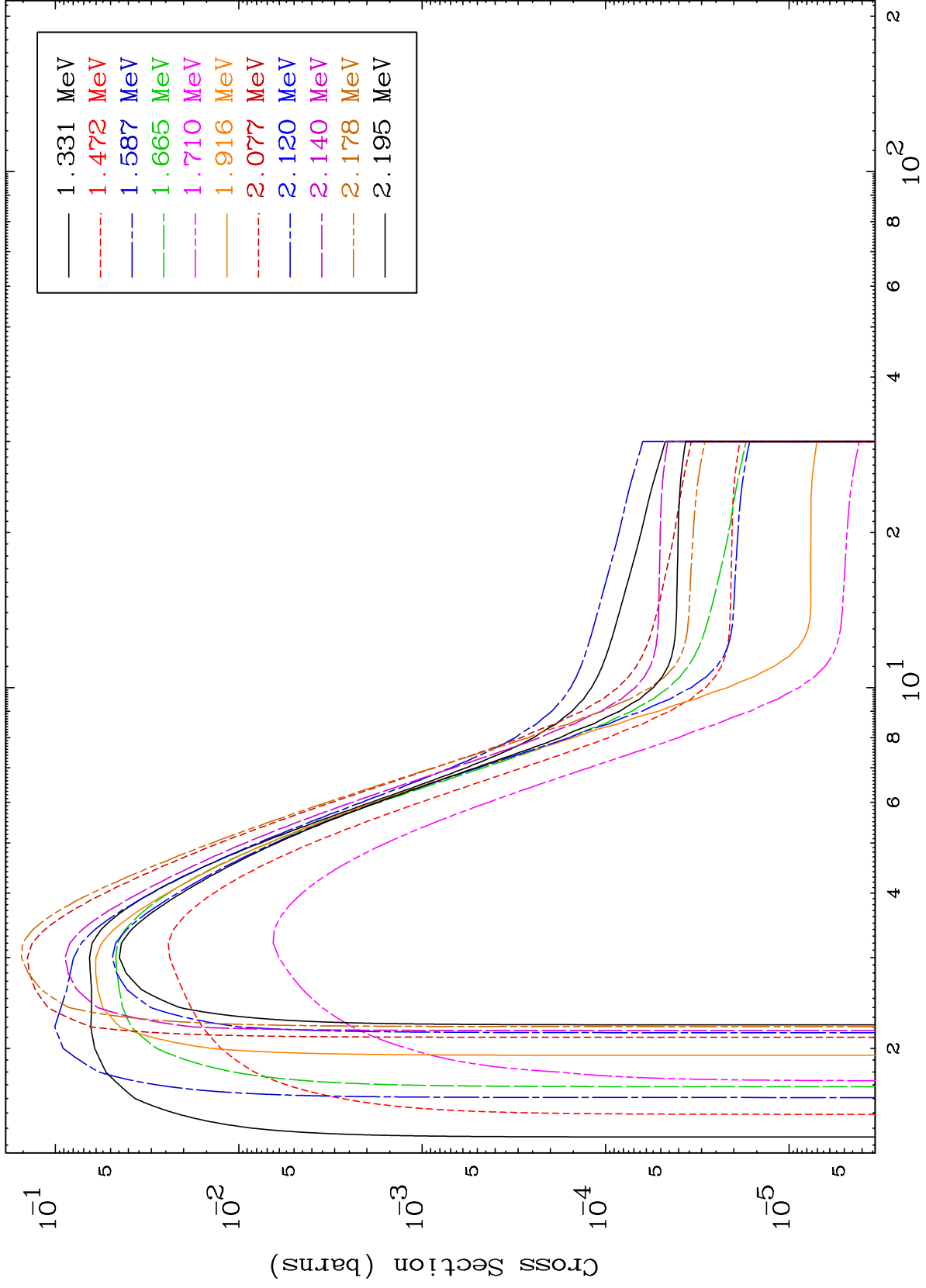
34-Se-83

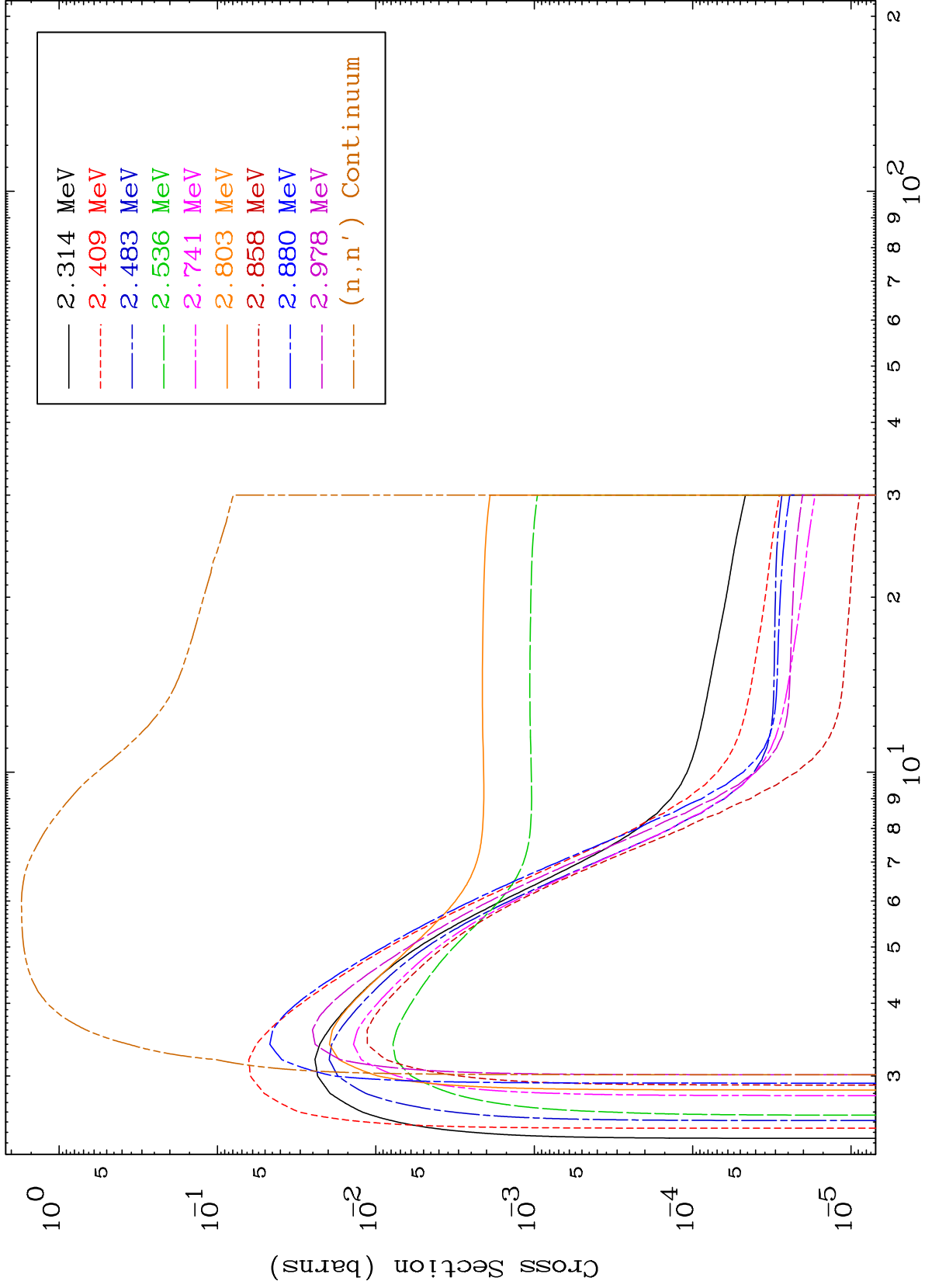
MAT 3452

(n,n') Level
293 Kelvin Cross Sections

34-Se-83



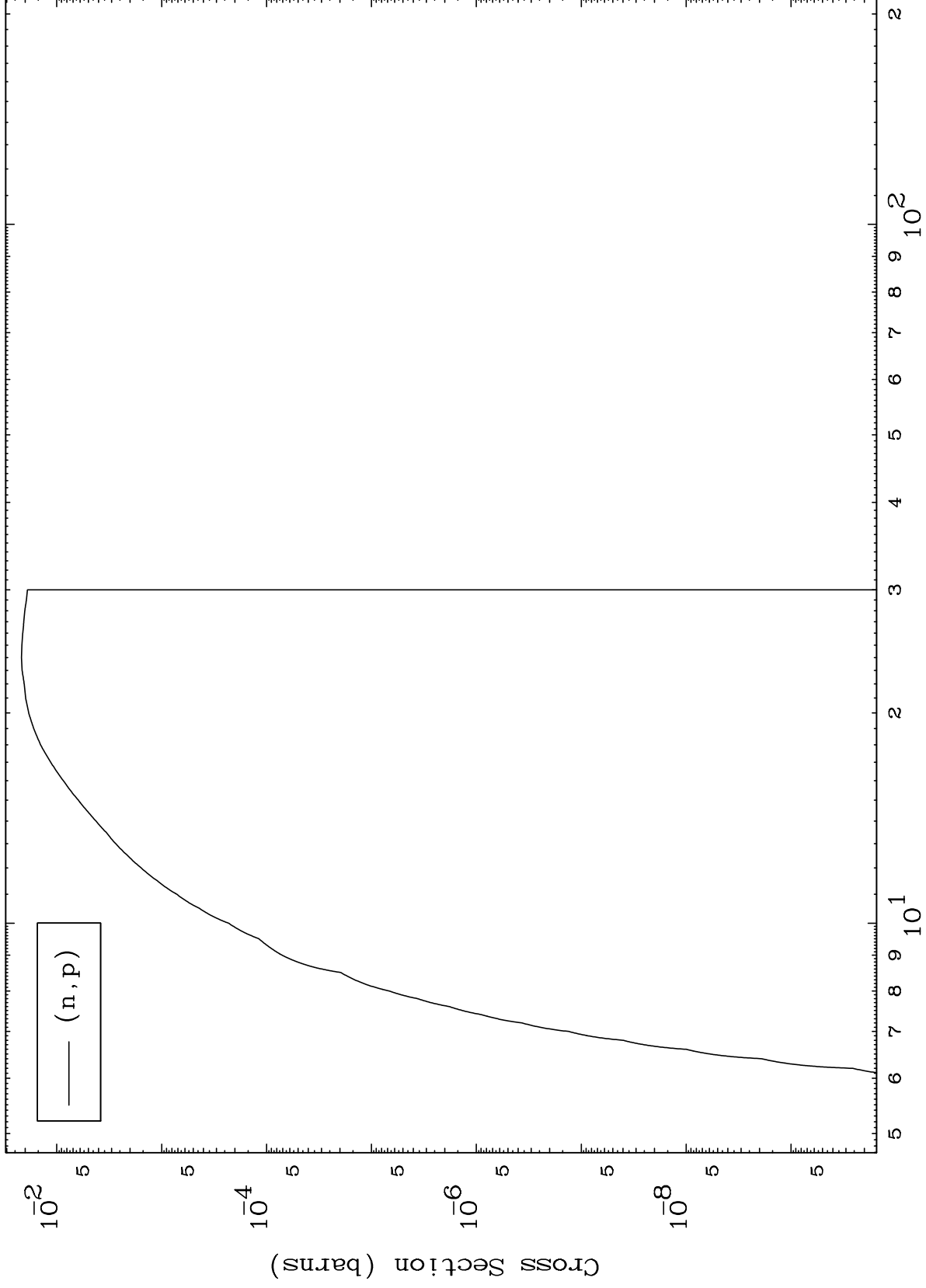




MAT 3452

(n,p) Levels
293 Kelvin Cross Sections

34-Se-83



10

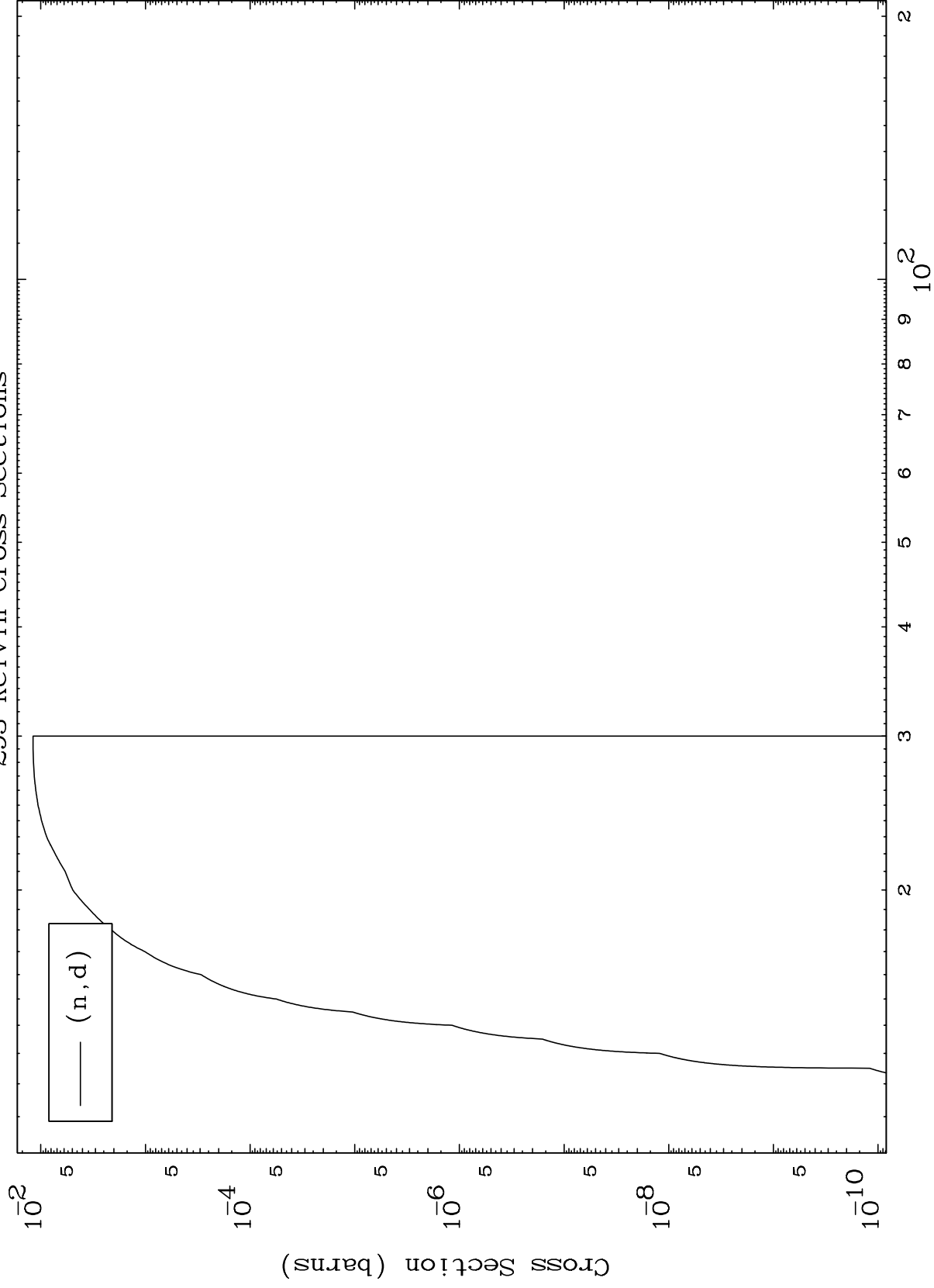
Incident Energy (MeV)

34-Se-83

MAT 3452

(n,d) Levels
293 Kelvin Cross Sections

³⁴Se-83



11

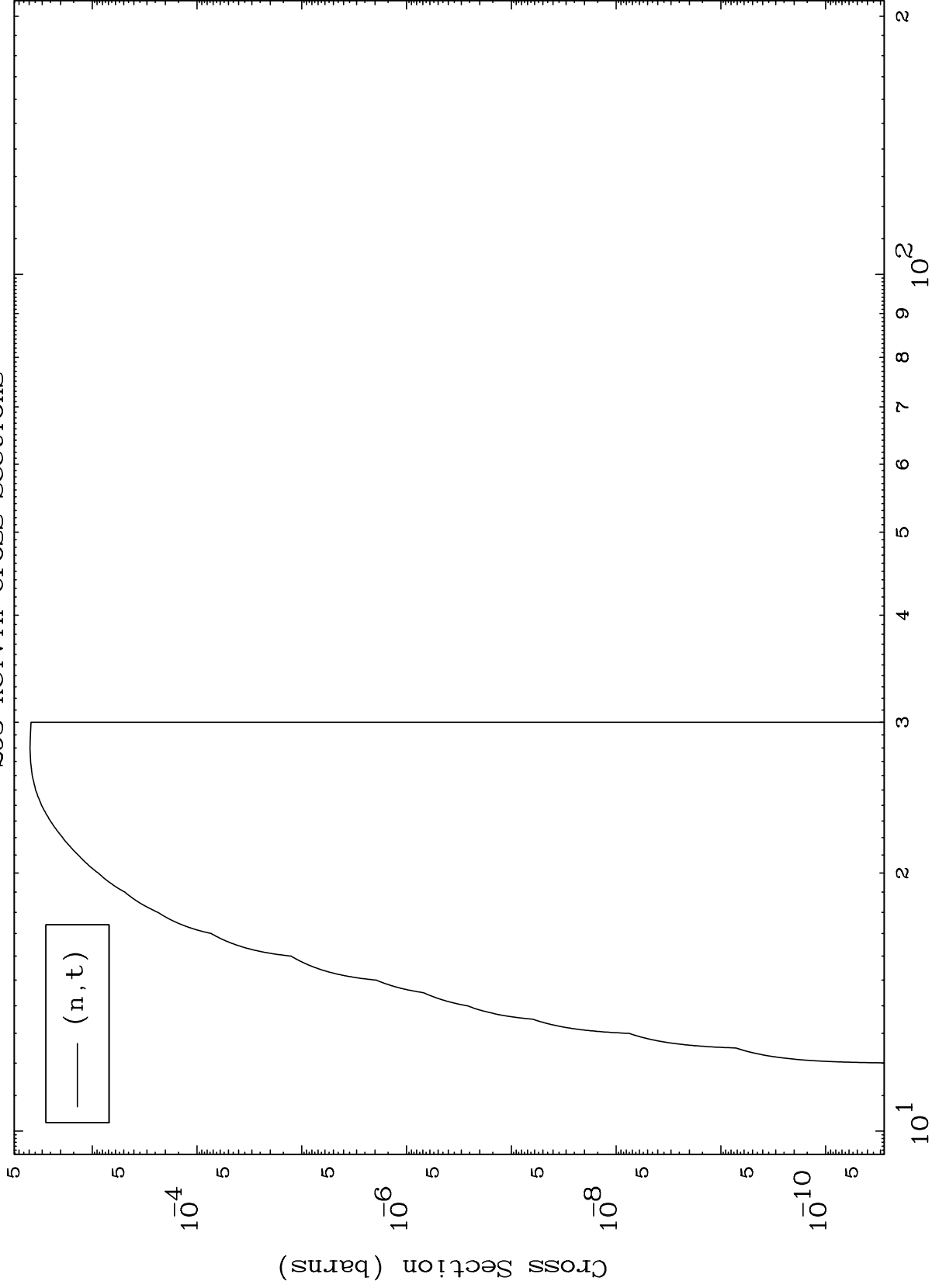
Incident Energy (MeV)

³⁴Se-83

MAT 3452

(n,t) Levels
293 Kelvin Cross Sections

34-Se-83



Incident Energy (MeV)

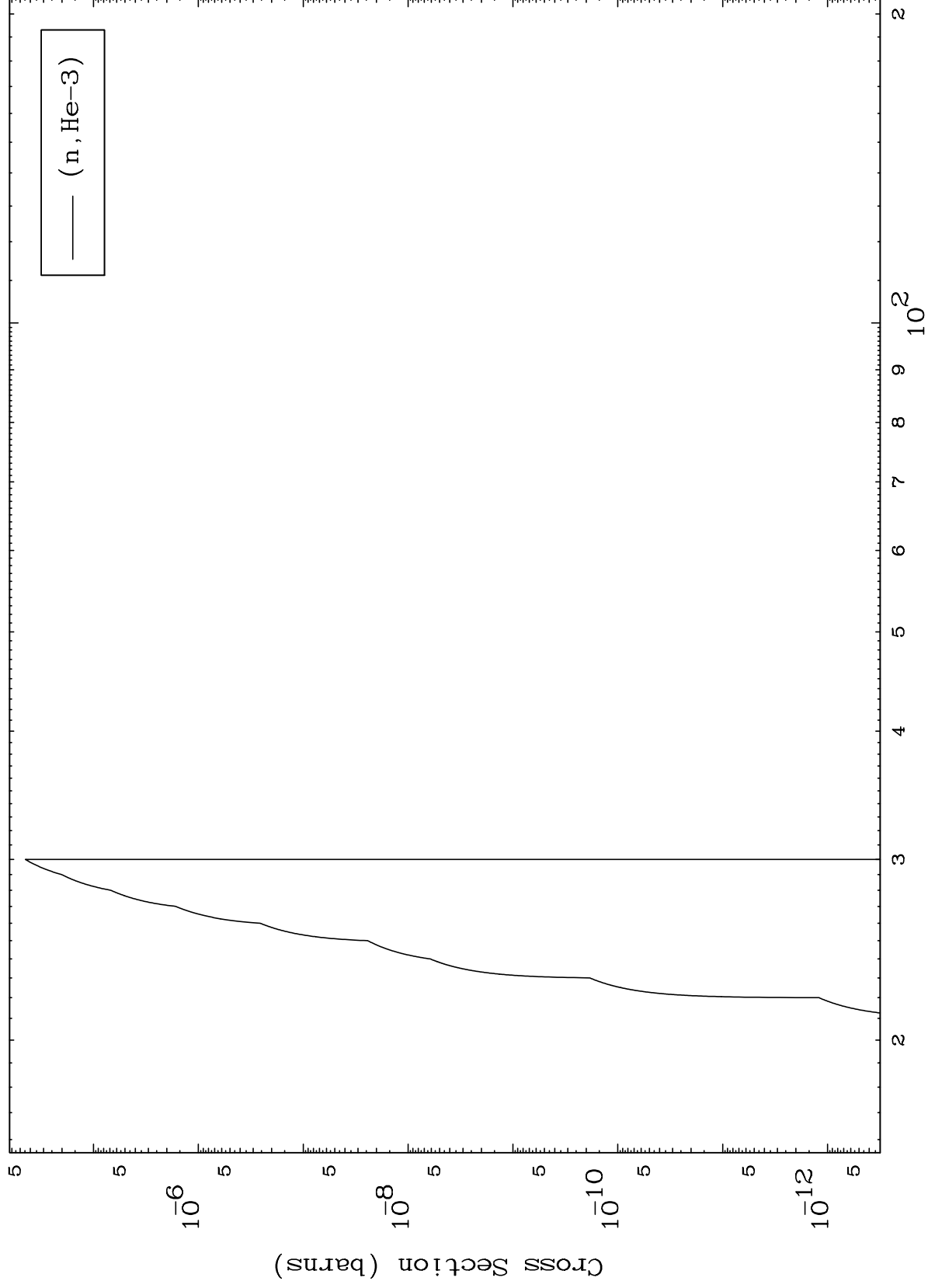
34-Se-83

12

MAT 3452

(n,He3) Levels
293 Kelvin Cross Sections

34-Se-83



13

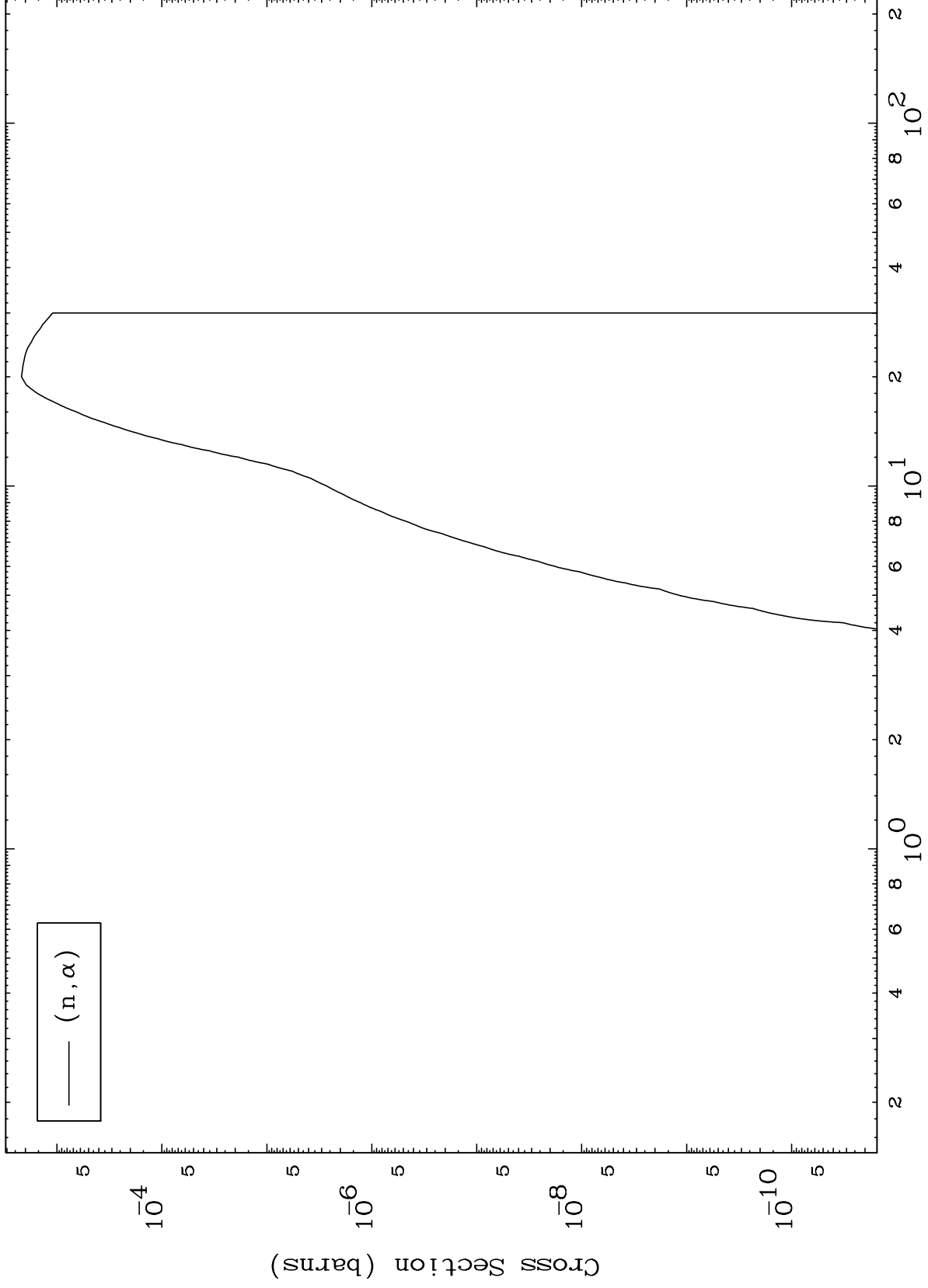
Incident Energy (MeV)

34-Se-83

MAT 3452

(n, α) Levels
293 Kelvin Cross Sections

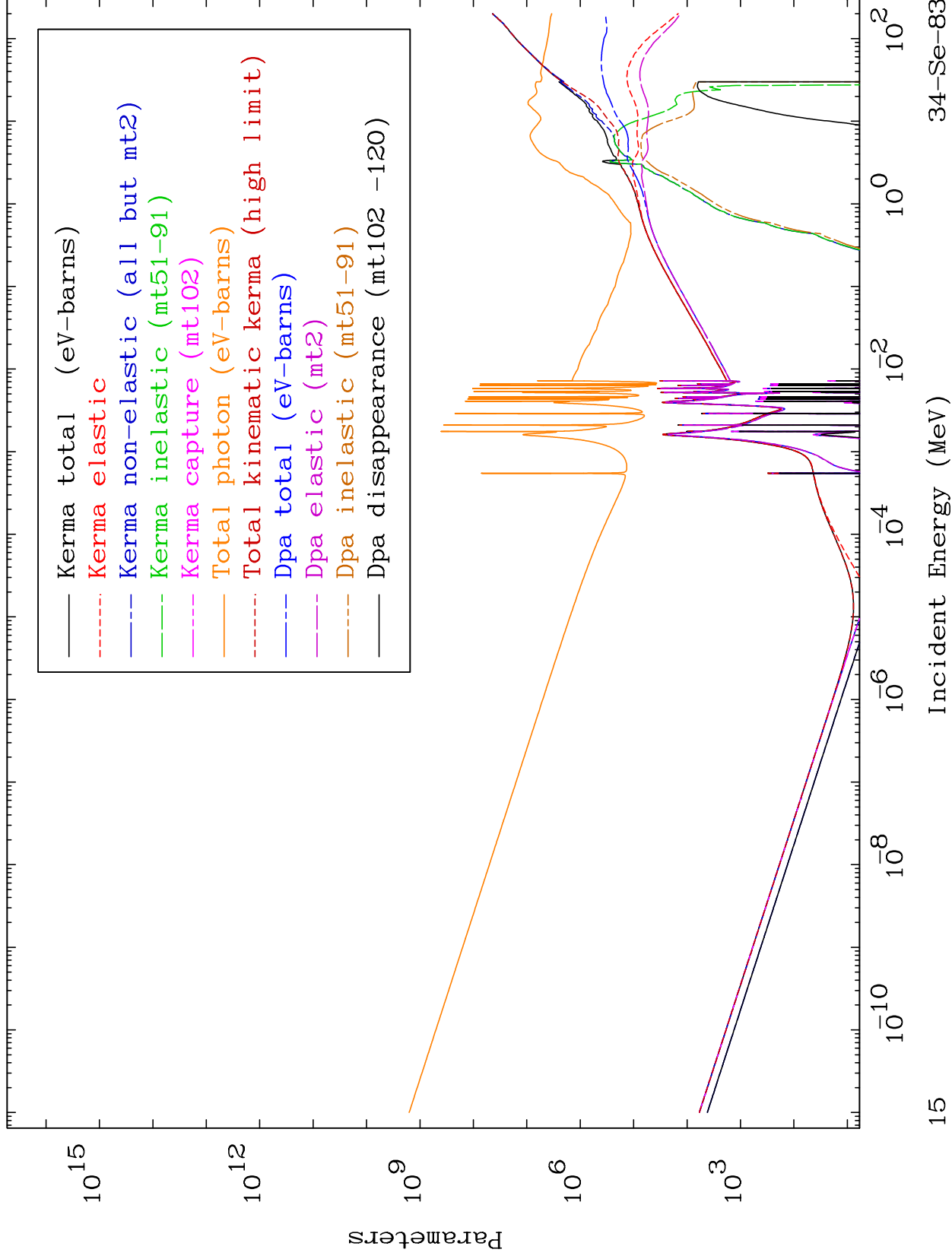
34-Se-83



14

Incident Energy (MeV)

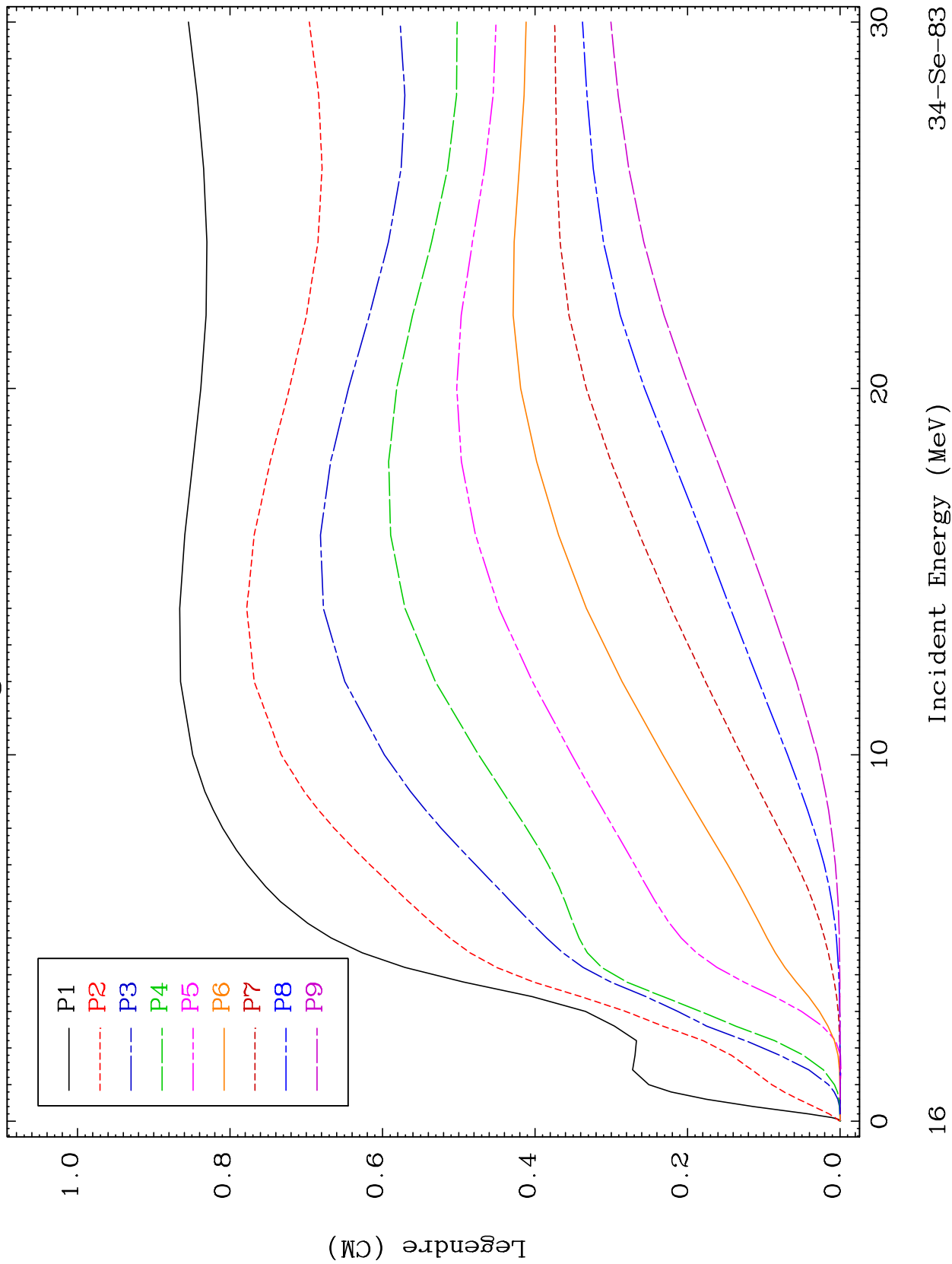
34-Se-83



MAT 3452

Elastic Legendre Coefficients

³⁴Se-83



16

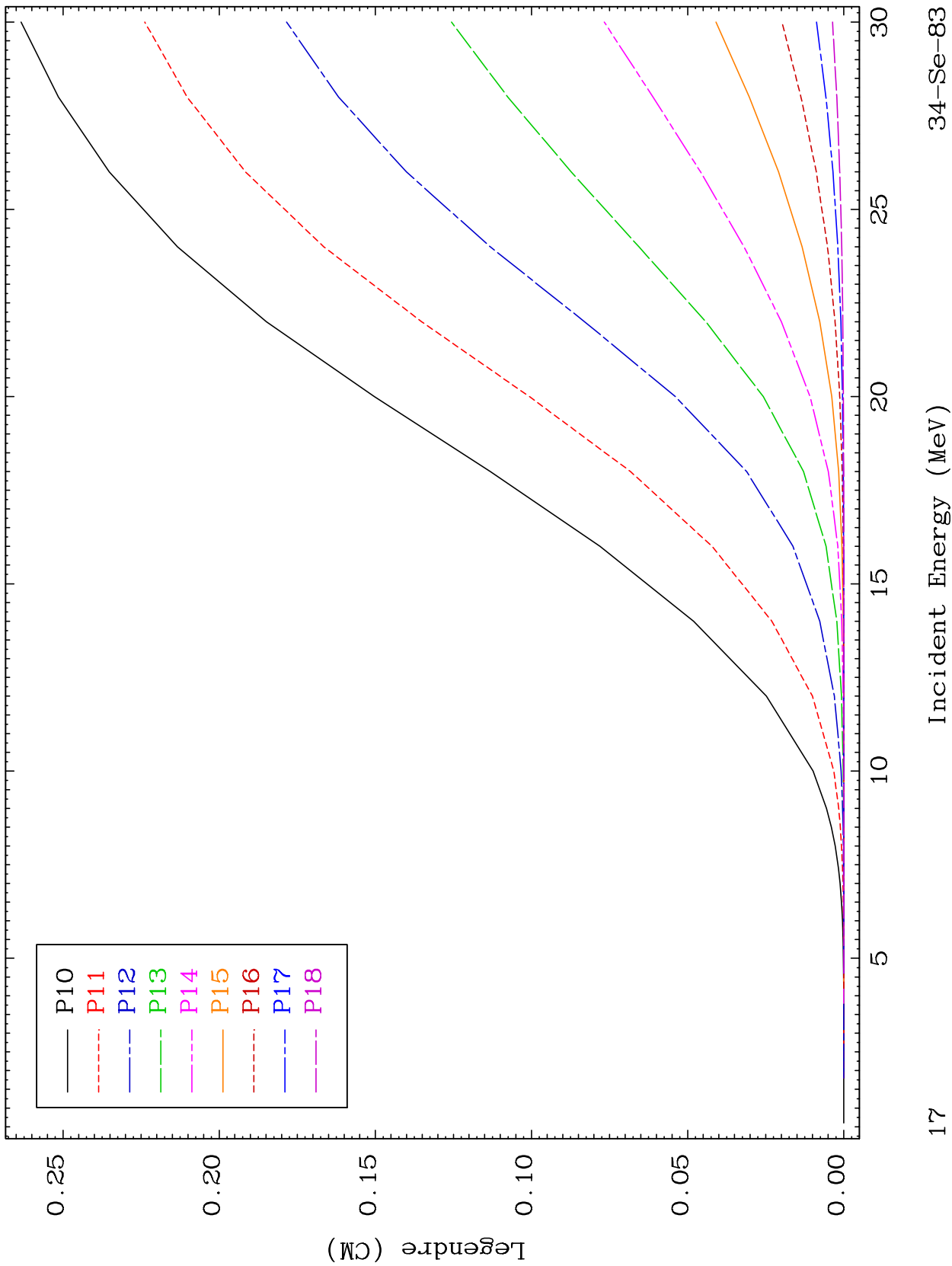
Incident Energy (MeV)

³⁴Se-83

MAT 3452

Elastic Legendre Coefficients

³⁴Se-83



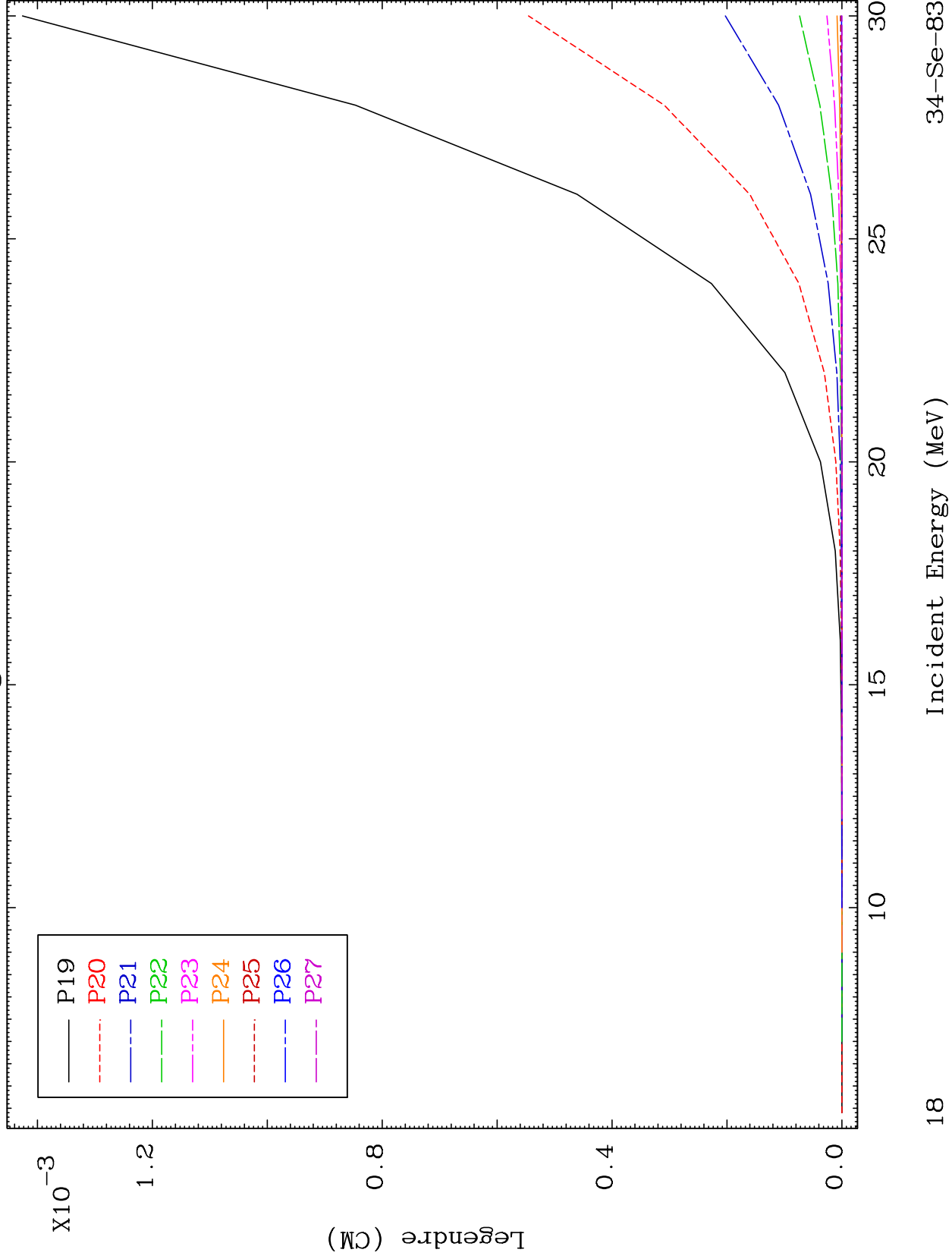
17

³⁴Se-83

MAT 3452

Elastic Legendre Coefficients

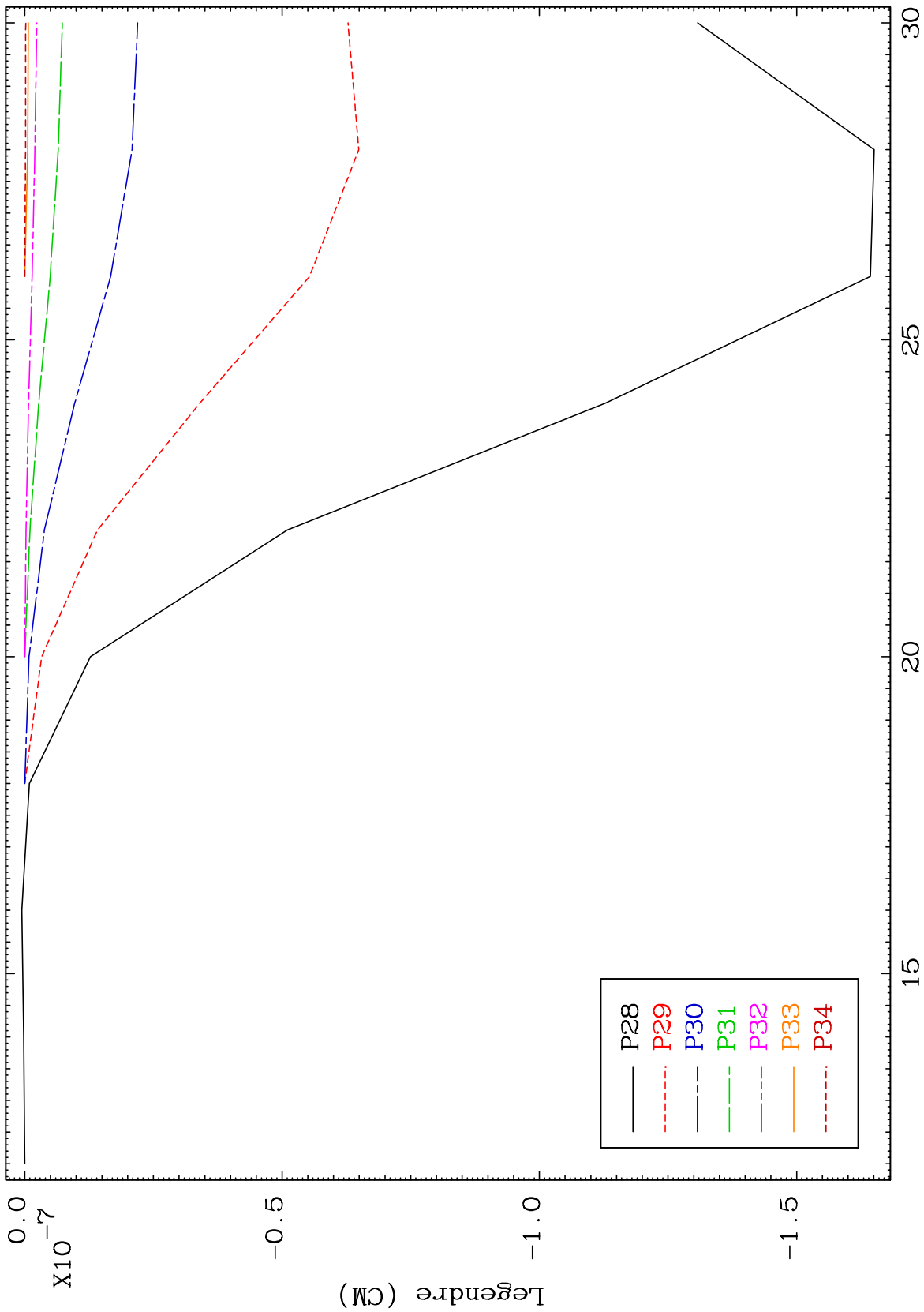
³⁴Se-83



MAT 3452

34-Se-83

Elastic Legendre Coefficients



19

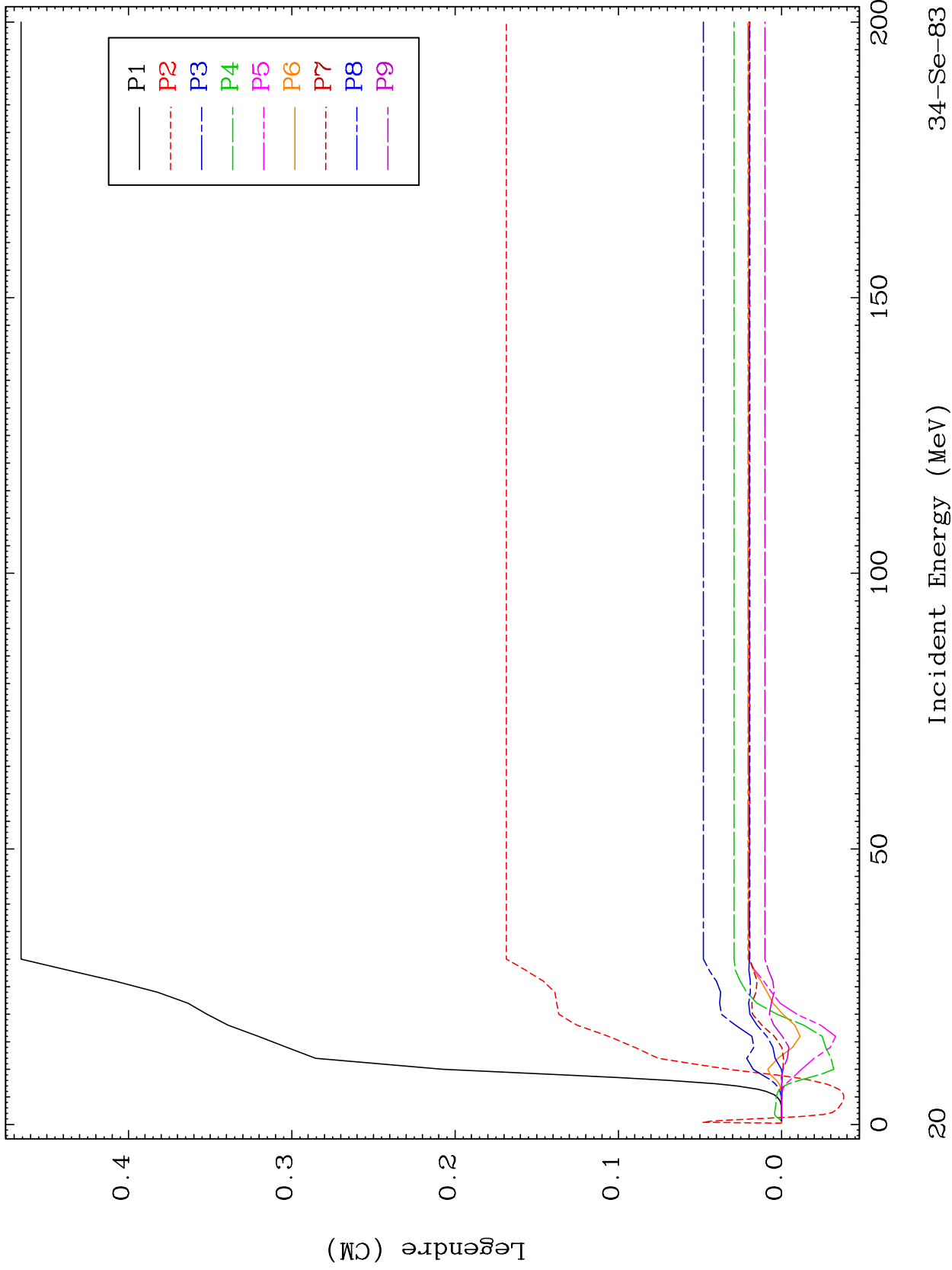
Incident Energy (MeV)

34-Se-83

MAT 3452

228.5 keV (n,n') Level
Legendre Coefficients

34-Se-83



34-Se-83

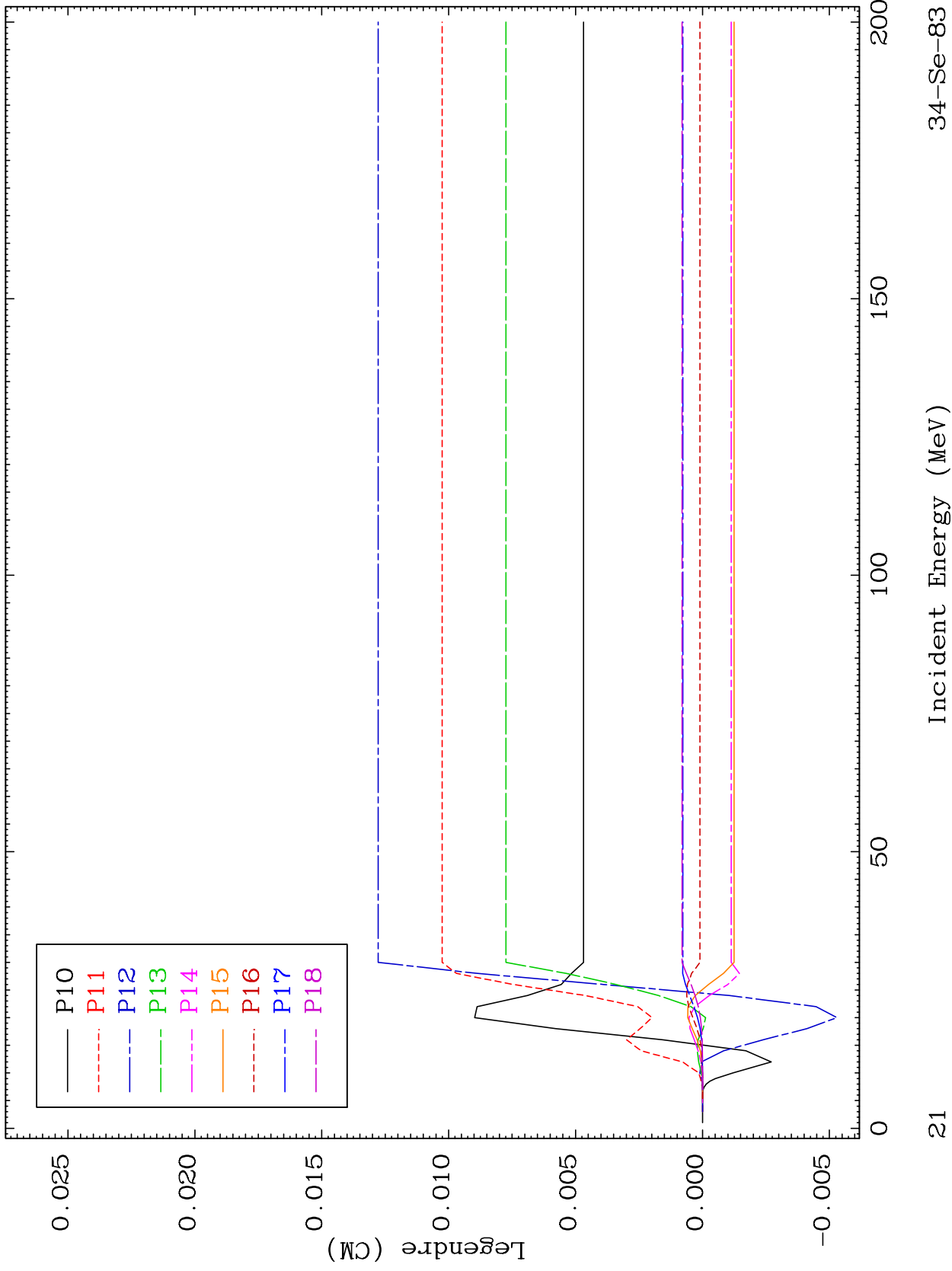
Incident Energy (MeV)

Legendre (CM)

MAT 3452

228.5 keV (n,n') Level
Legendre Coefficients

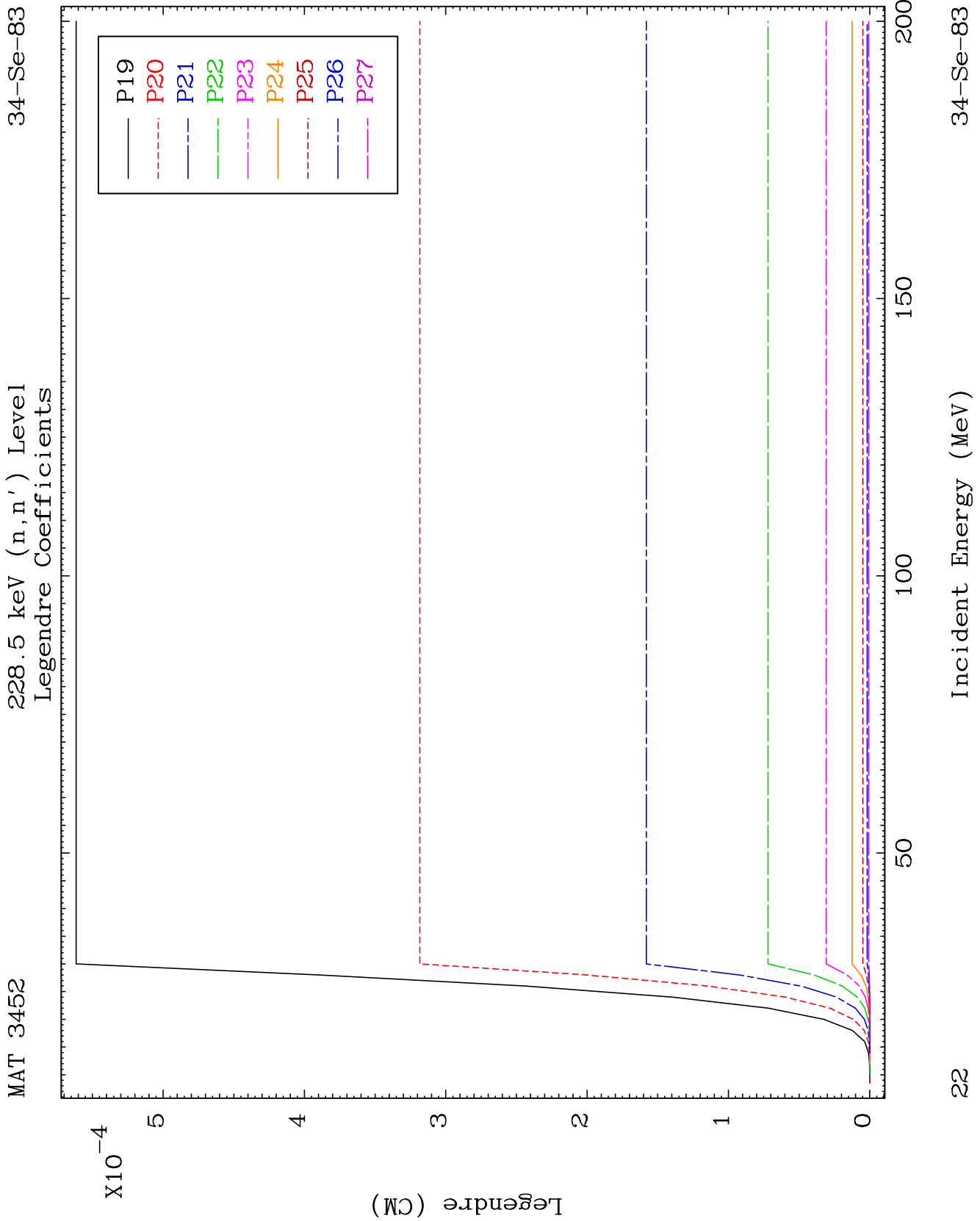
³⁴Se-83

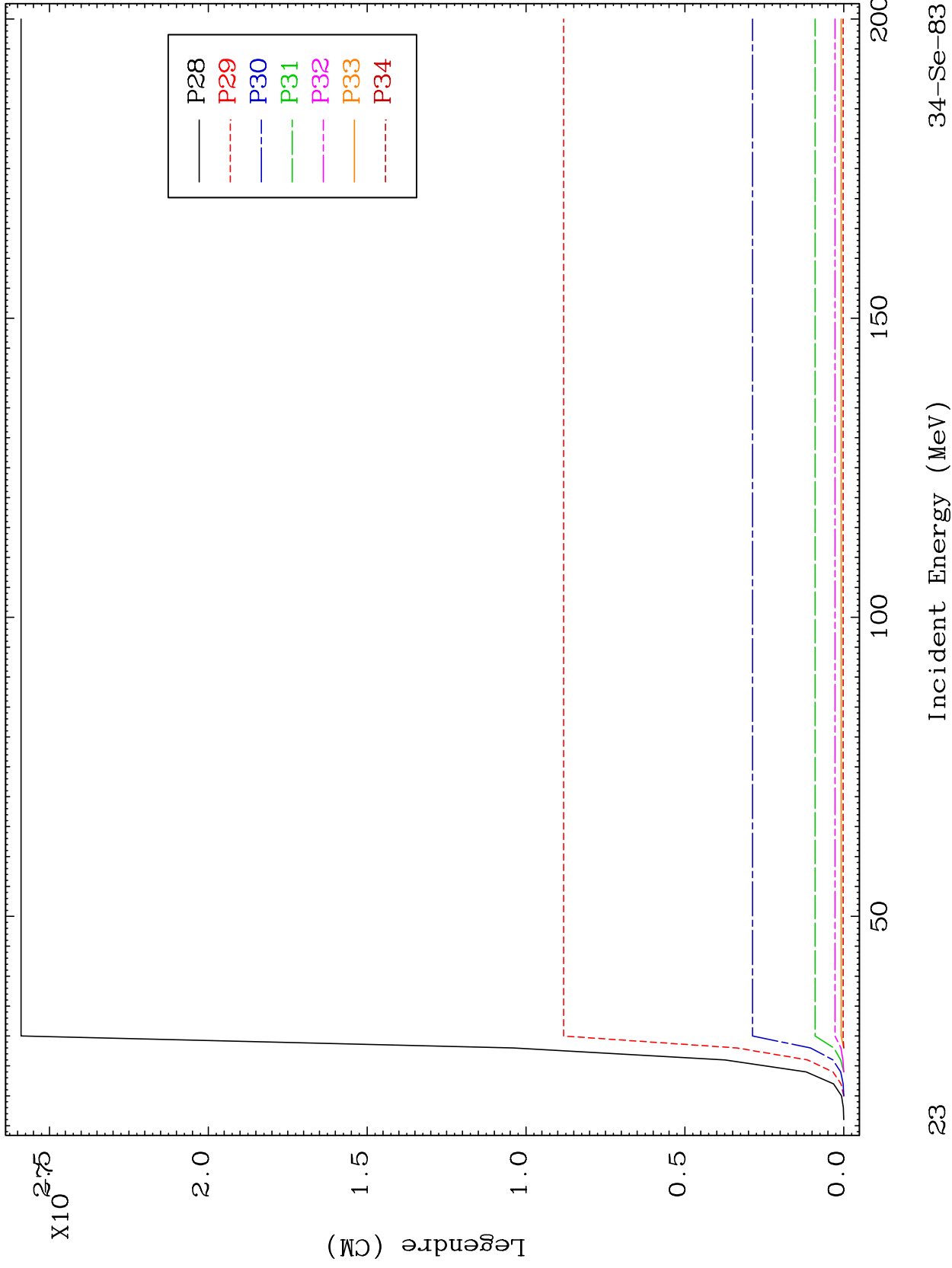


21

Incident Energy (MeV)

³⁴Se-83

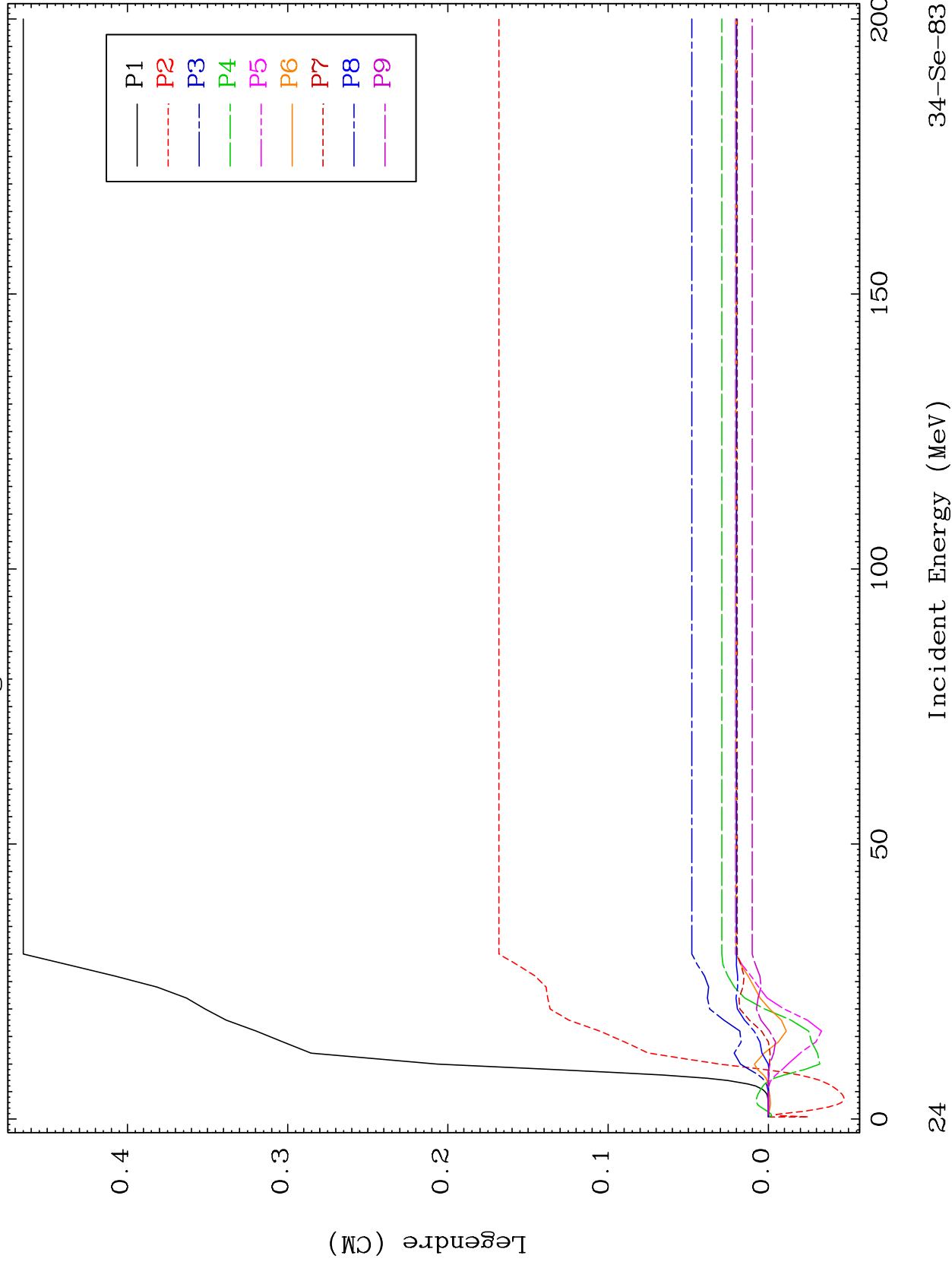




MAT 3452

360.0 keV (n,n') Level
Legendre Coefficients

³⁴Se-83



³⁴Se-83

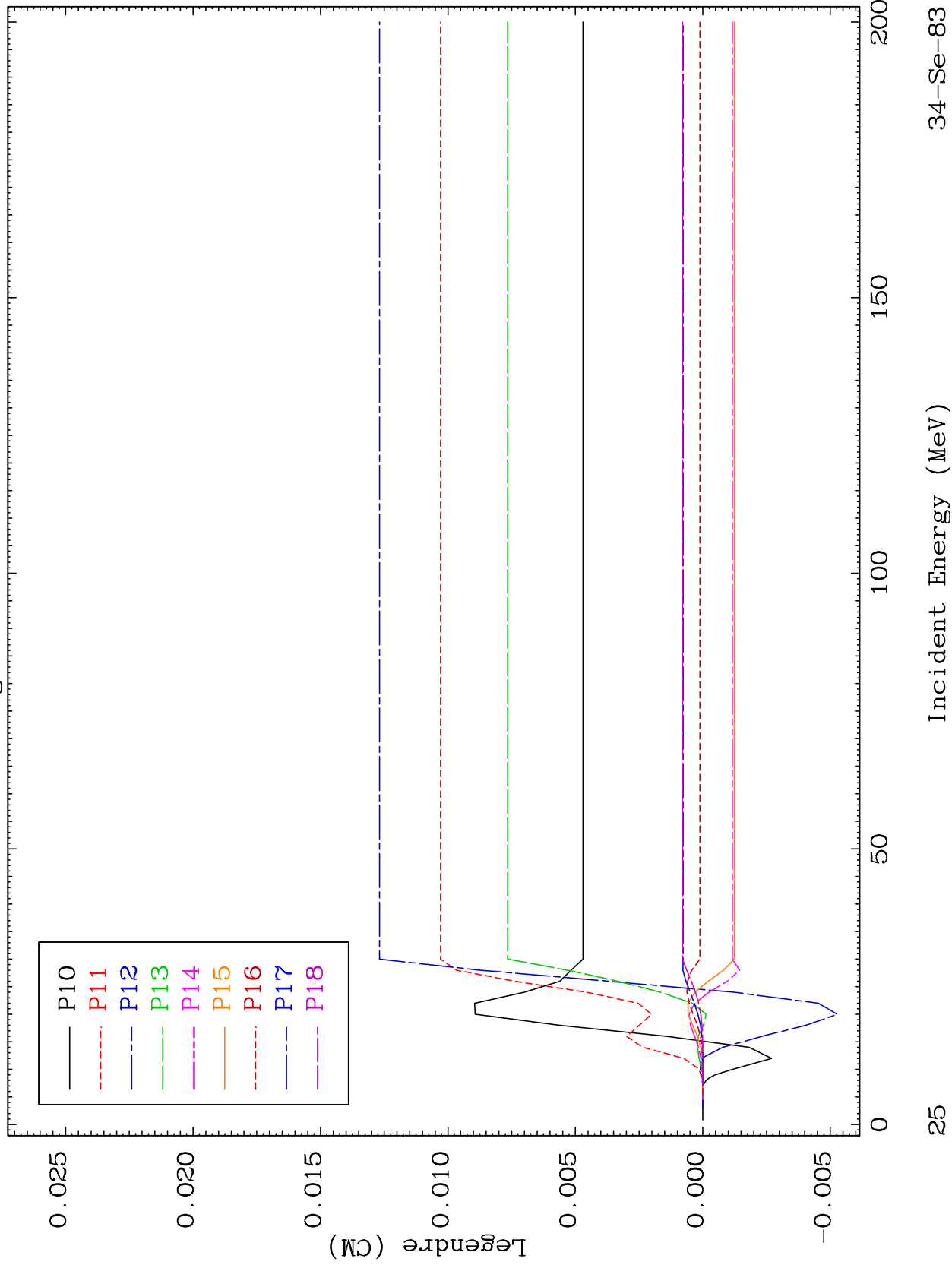
Incident Energy (MeV)

24

MAT 3452

360.0 keV (n,n') Level
Legendre Coefficients

34-Se-83



34-Se-83

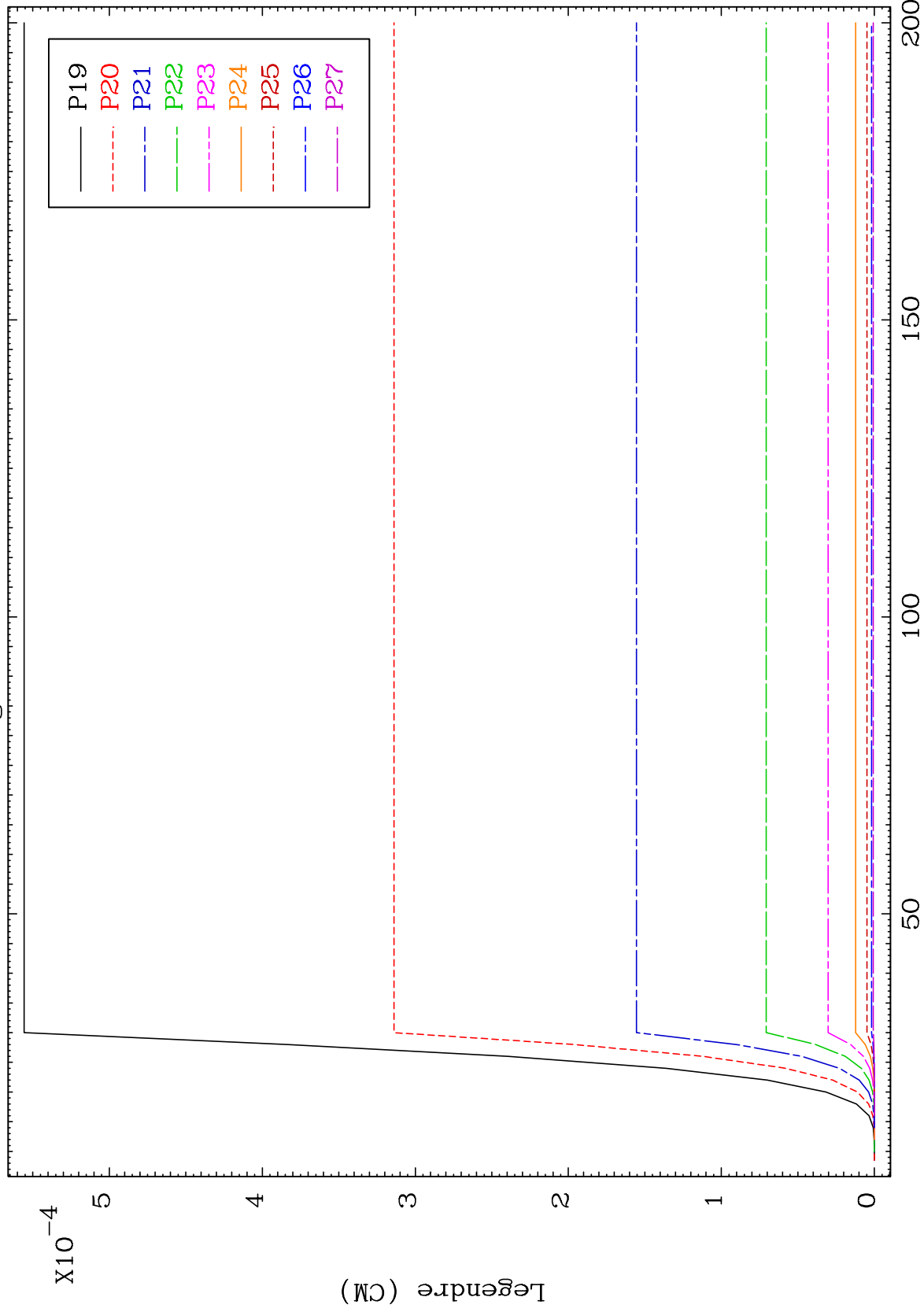
Incident Energy (MeV)

25

MAT 3452

360.0 keV (n,n') Level
Legendre Coefficients

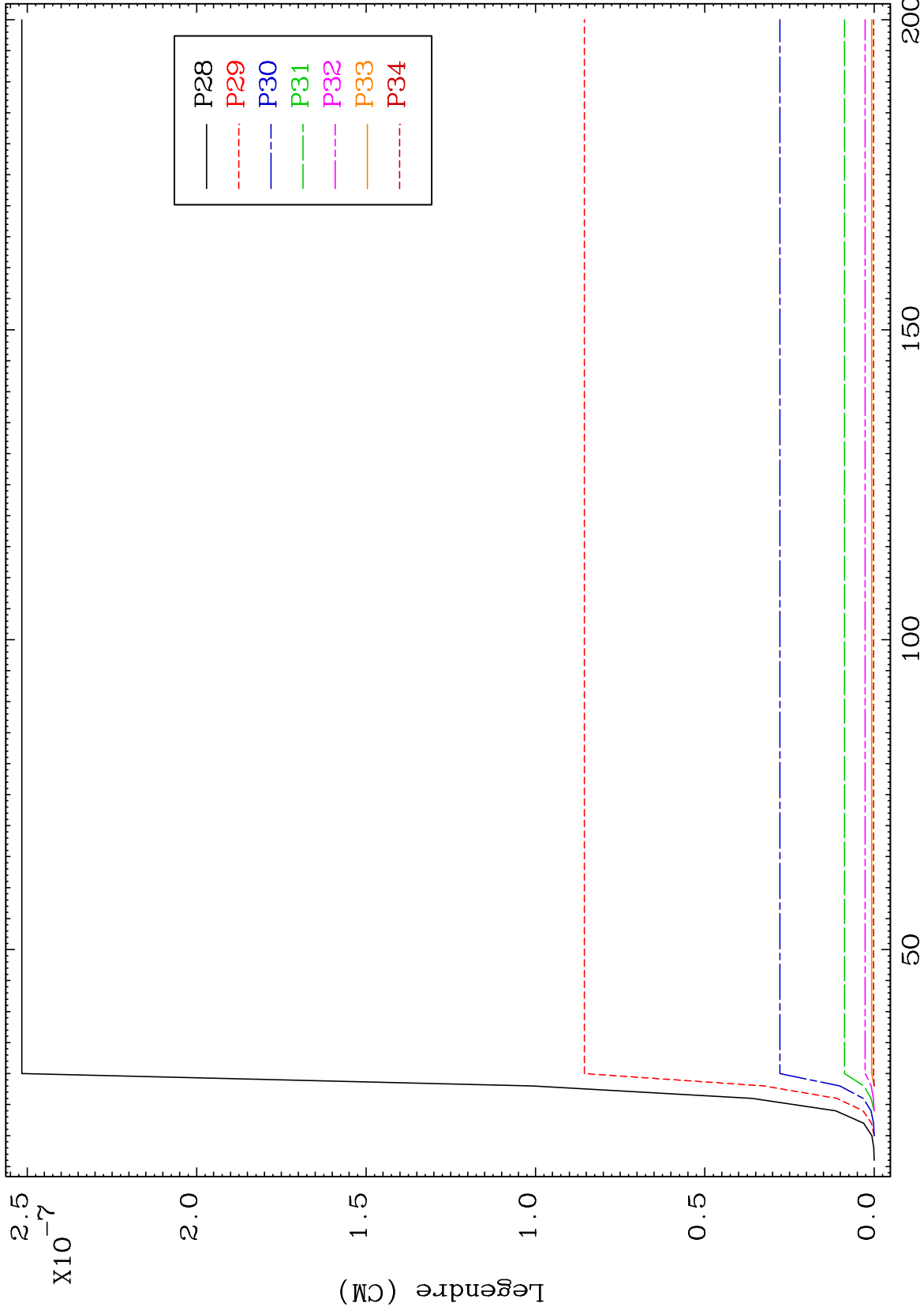
³⁴Se-83



26

Incident Energy (MeV)

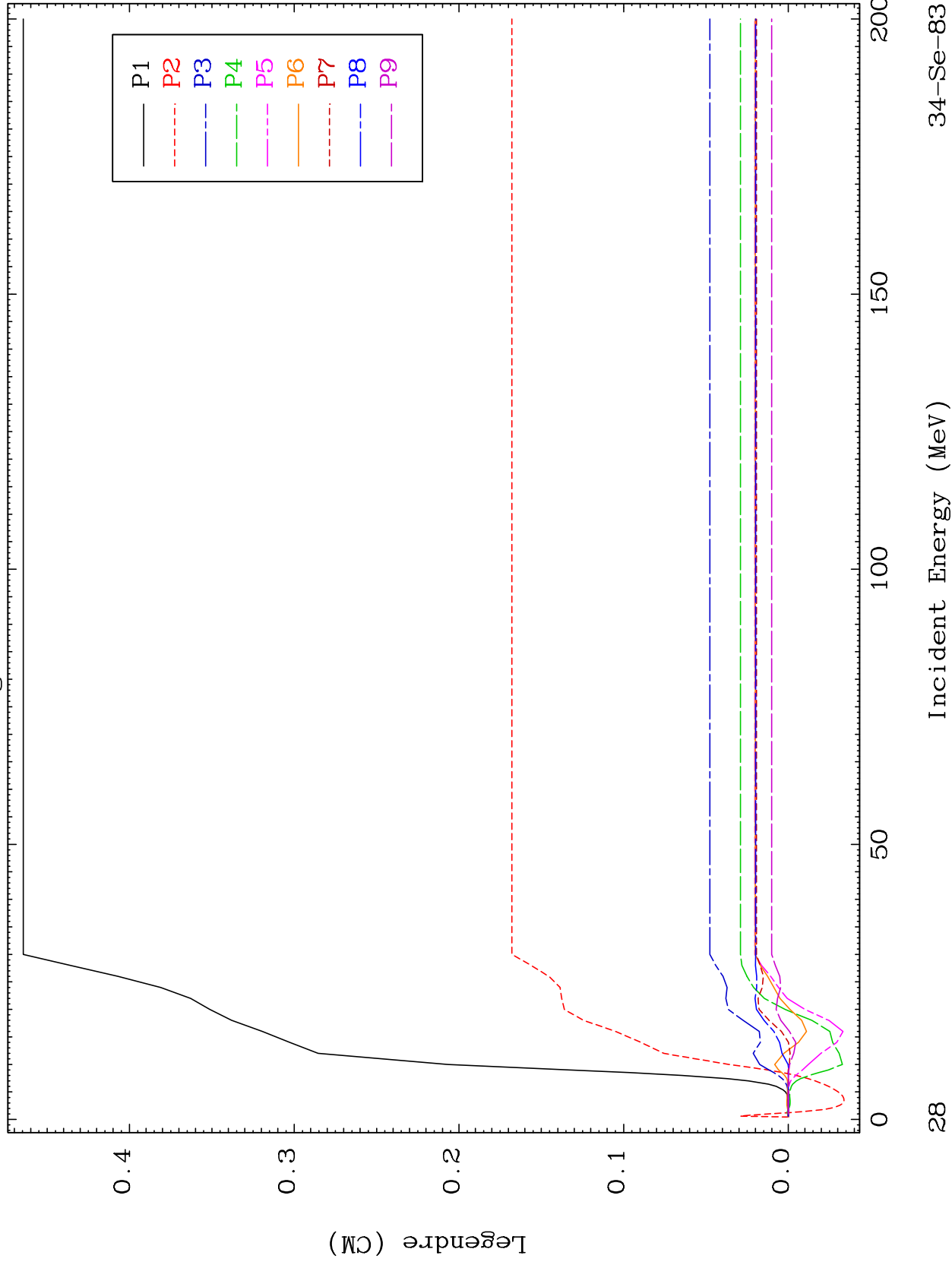
³⁴Se-83



MAT 3452

430.0 keV (n,n') Level
Legendre Coefficients

34-Se-83



34-Se-83

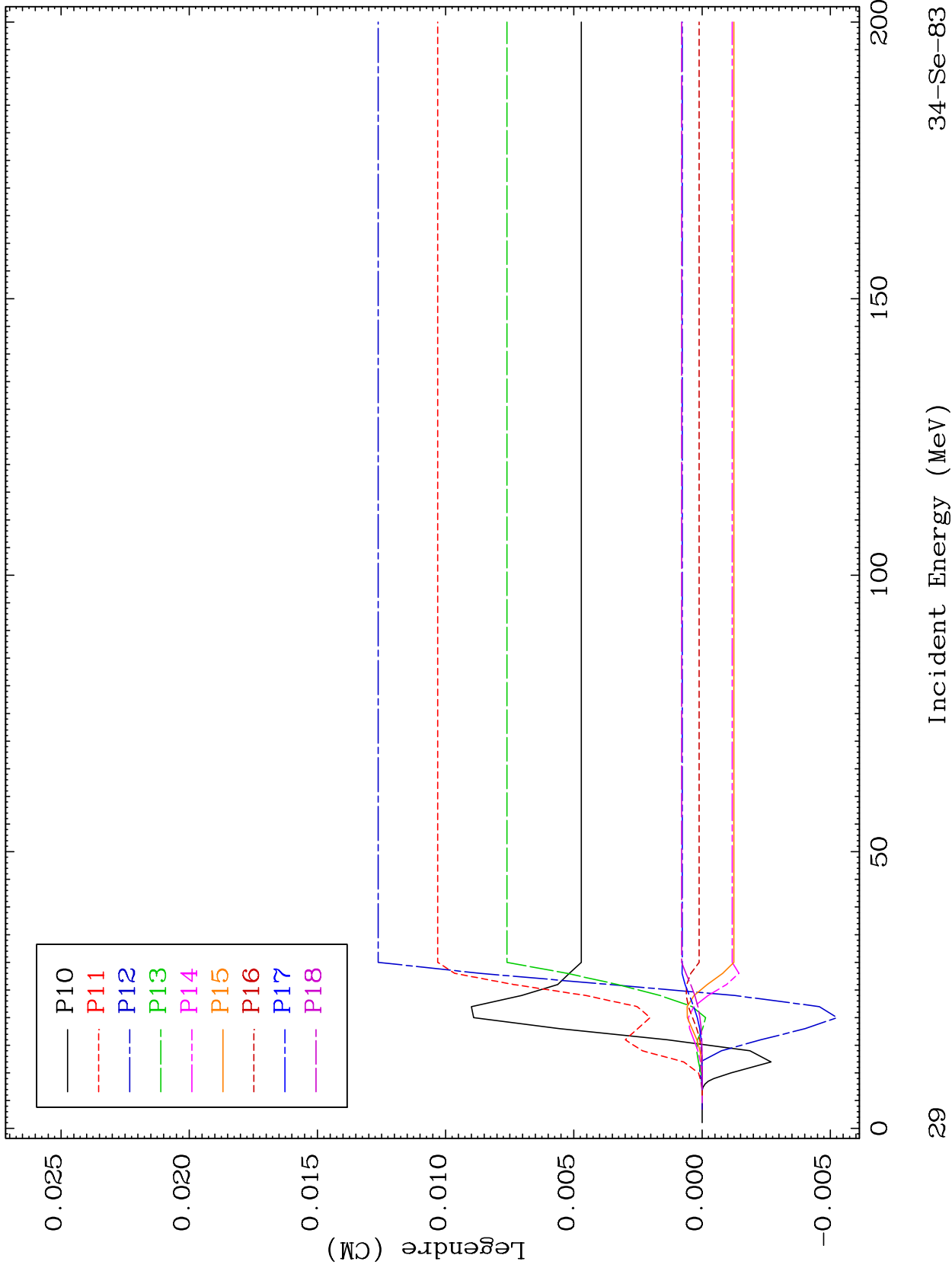
Incident Energy (MeV)

28

MAT 3452

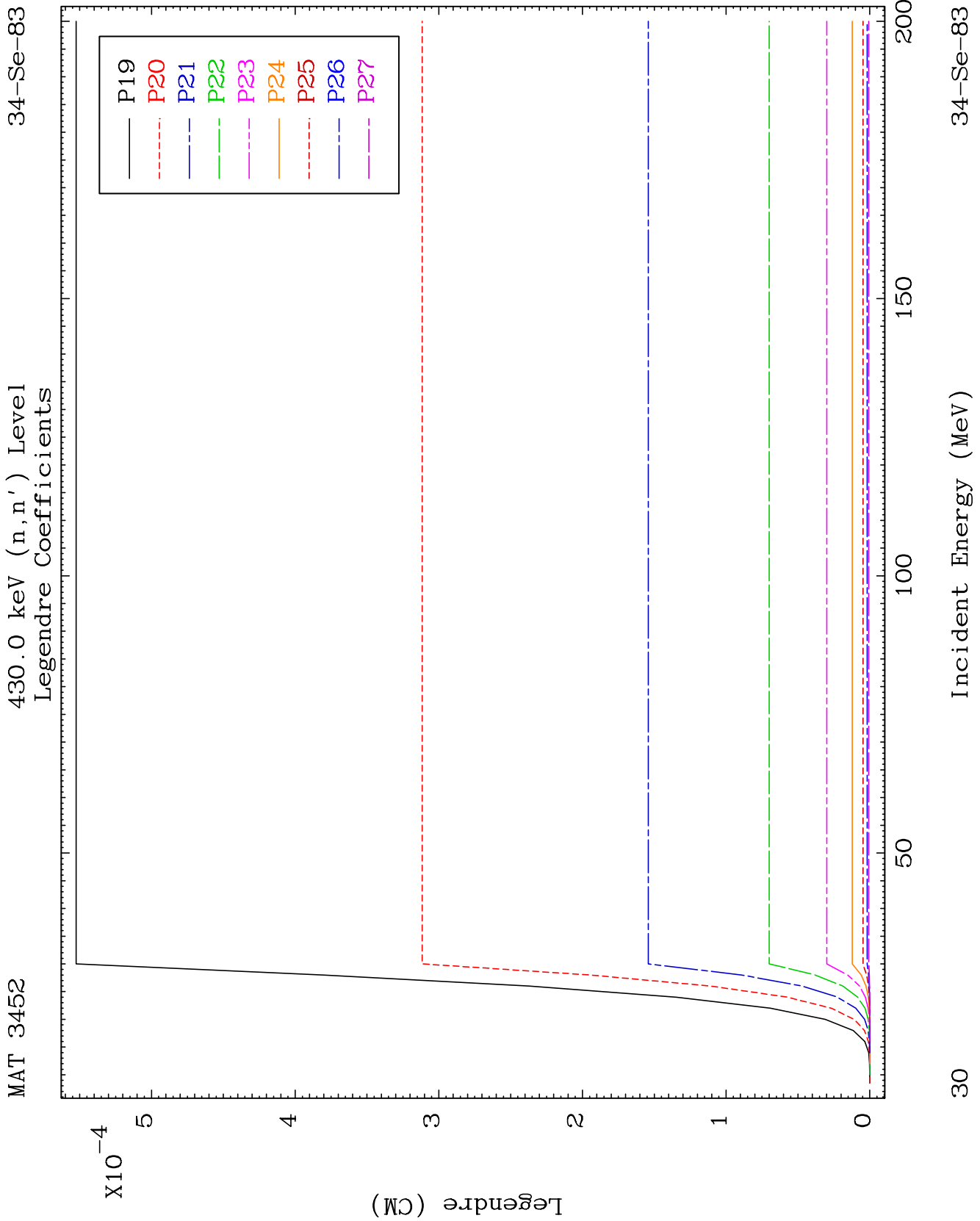
430.0 keV (n,n') Level
Legendre Coefficients

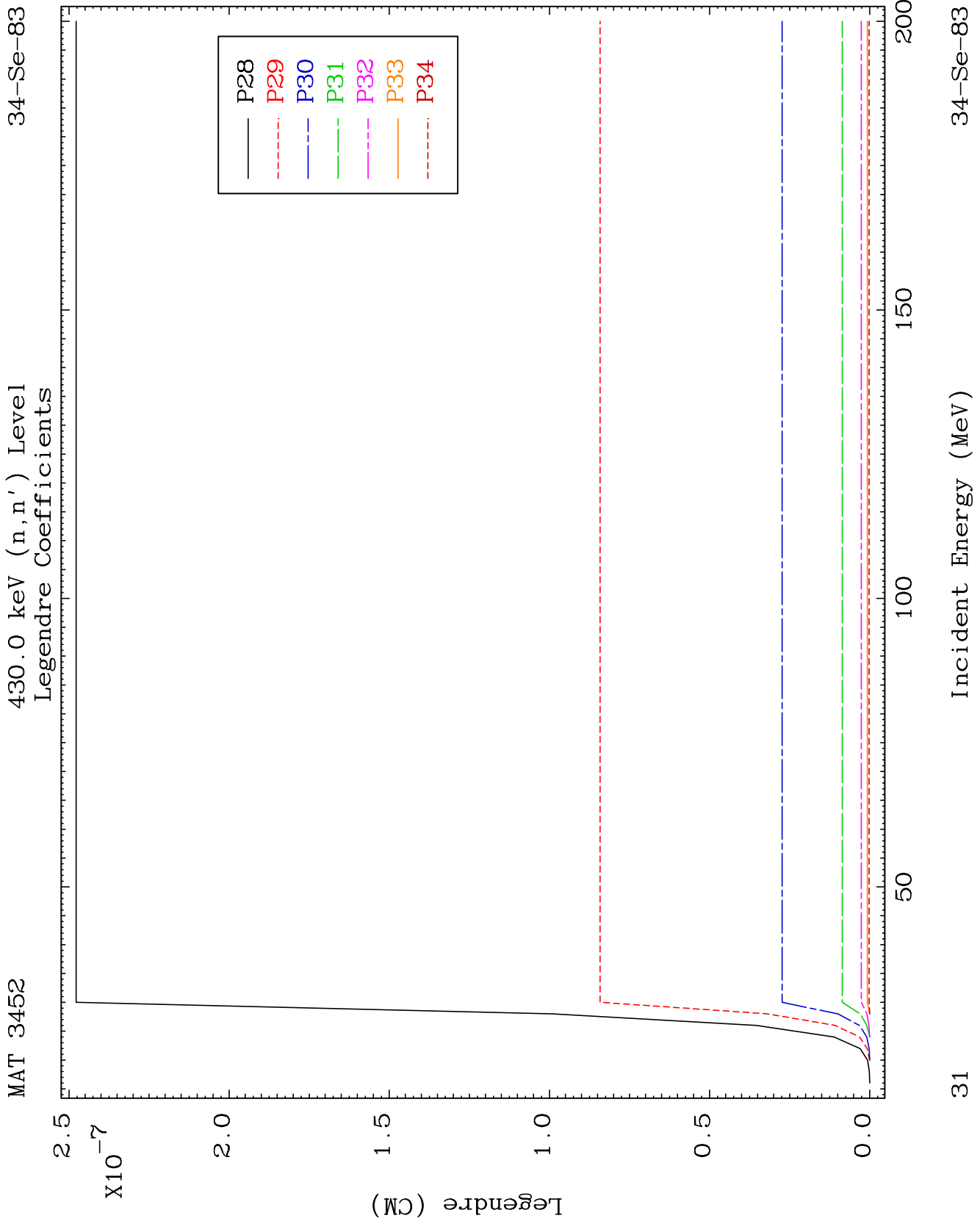
34-Se-83



29

34-Se-83

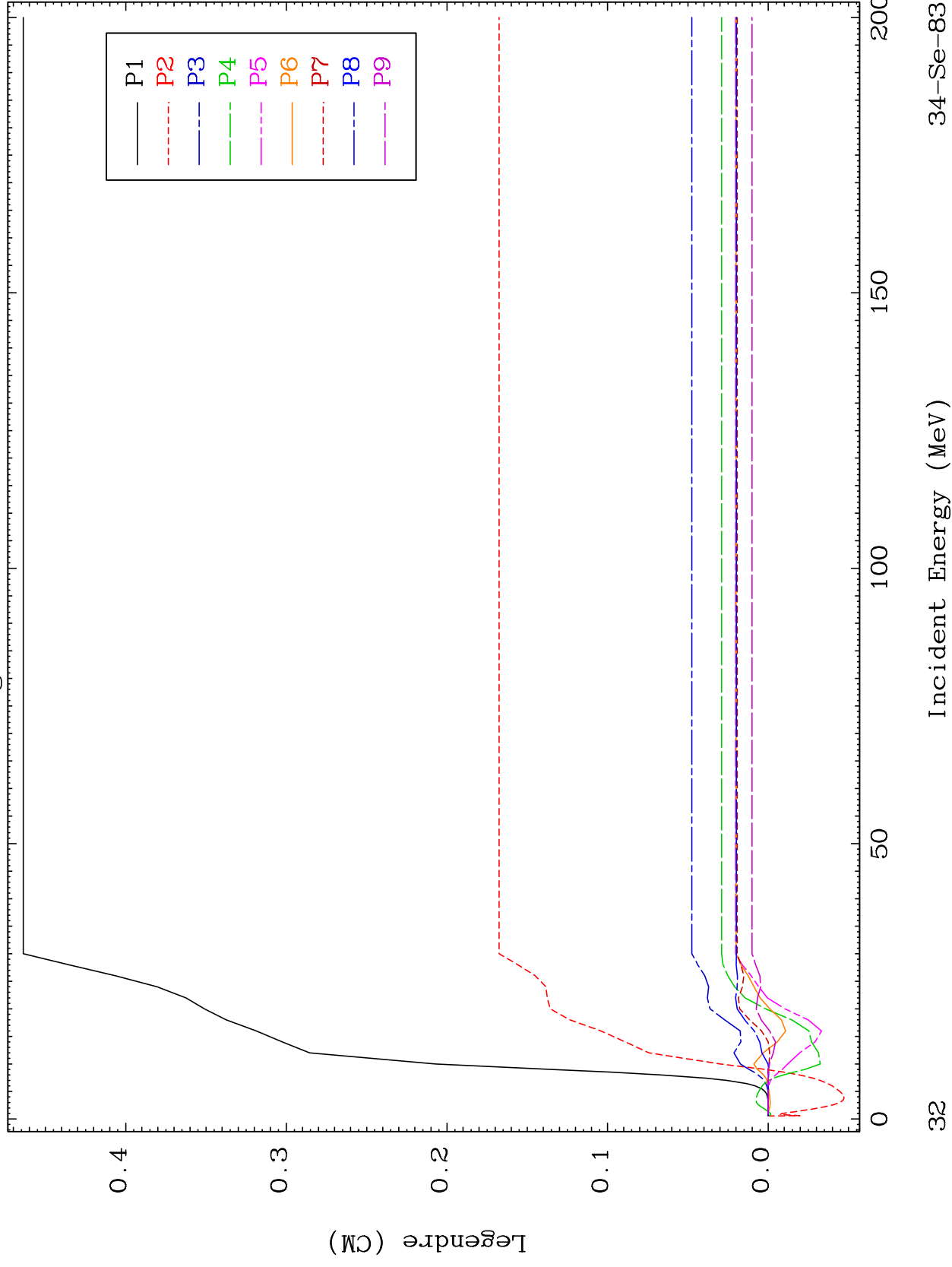




MAT 3452

539.5 keV (n,n') Level
Legendre Coefficients

³⁴Se-83



³⁴Se-83

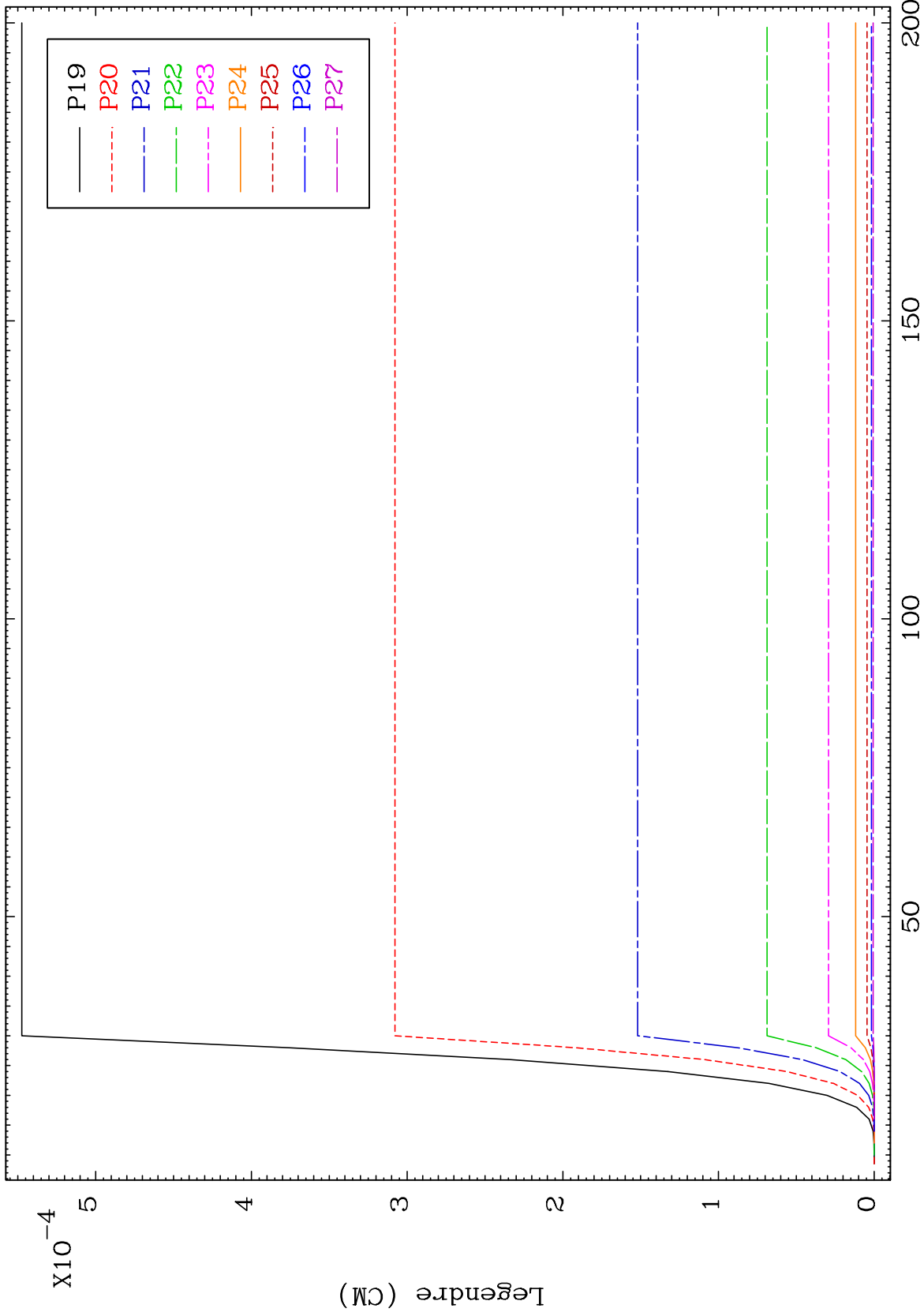
Incident Energy (MeV)

32

MAT 3452

539.5 keV (n,n') Level
Legendre Coefficients

³⁴Se-83



34

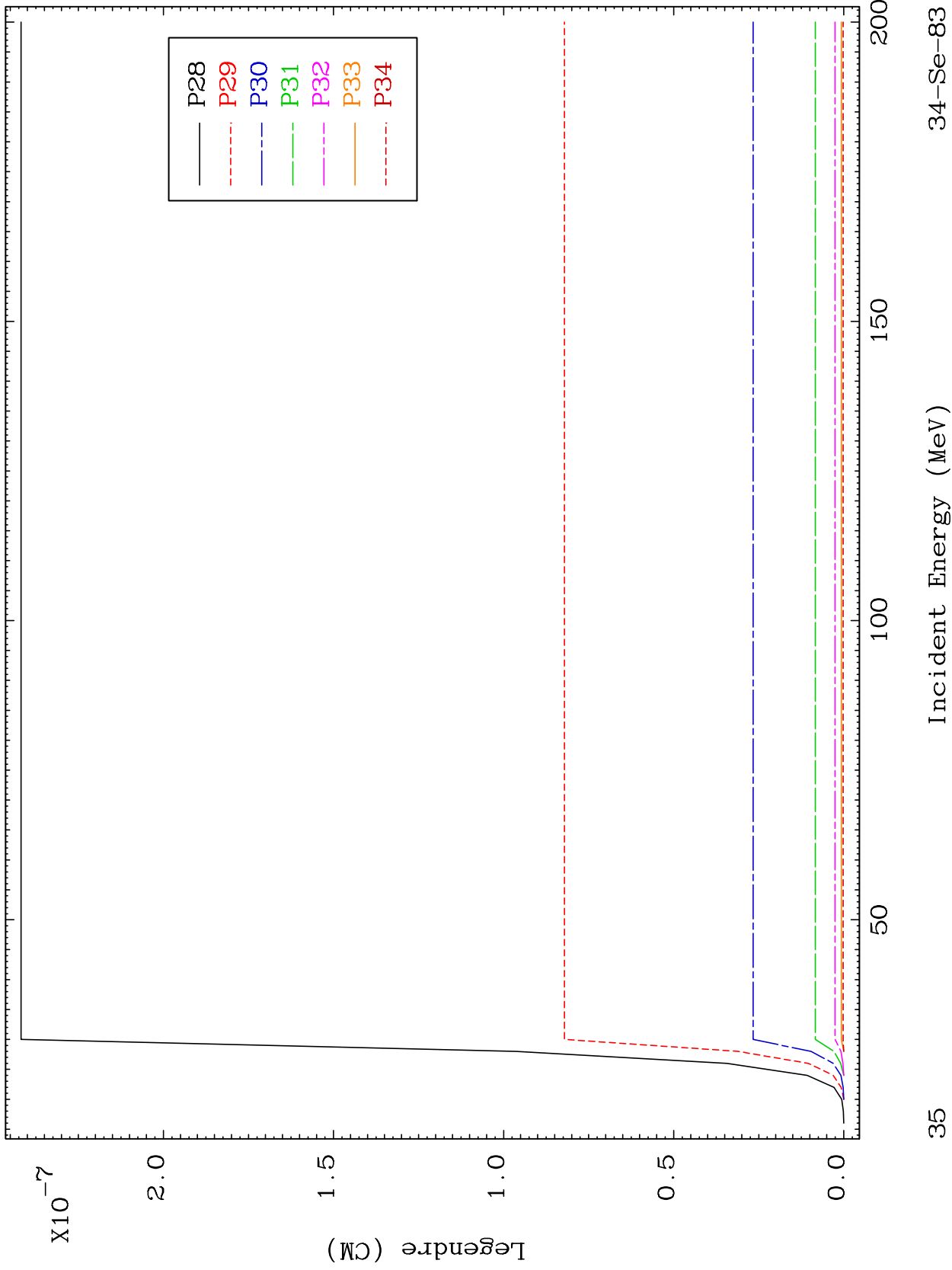
Incident Energy (MeV)

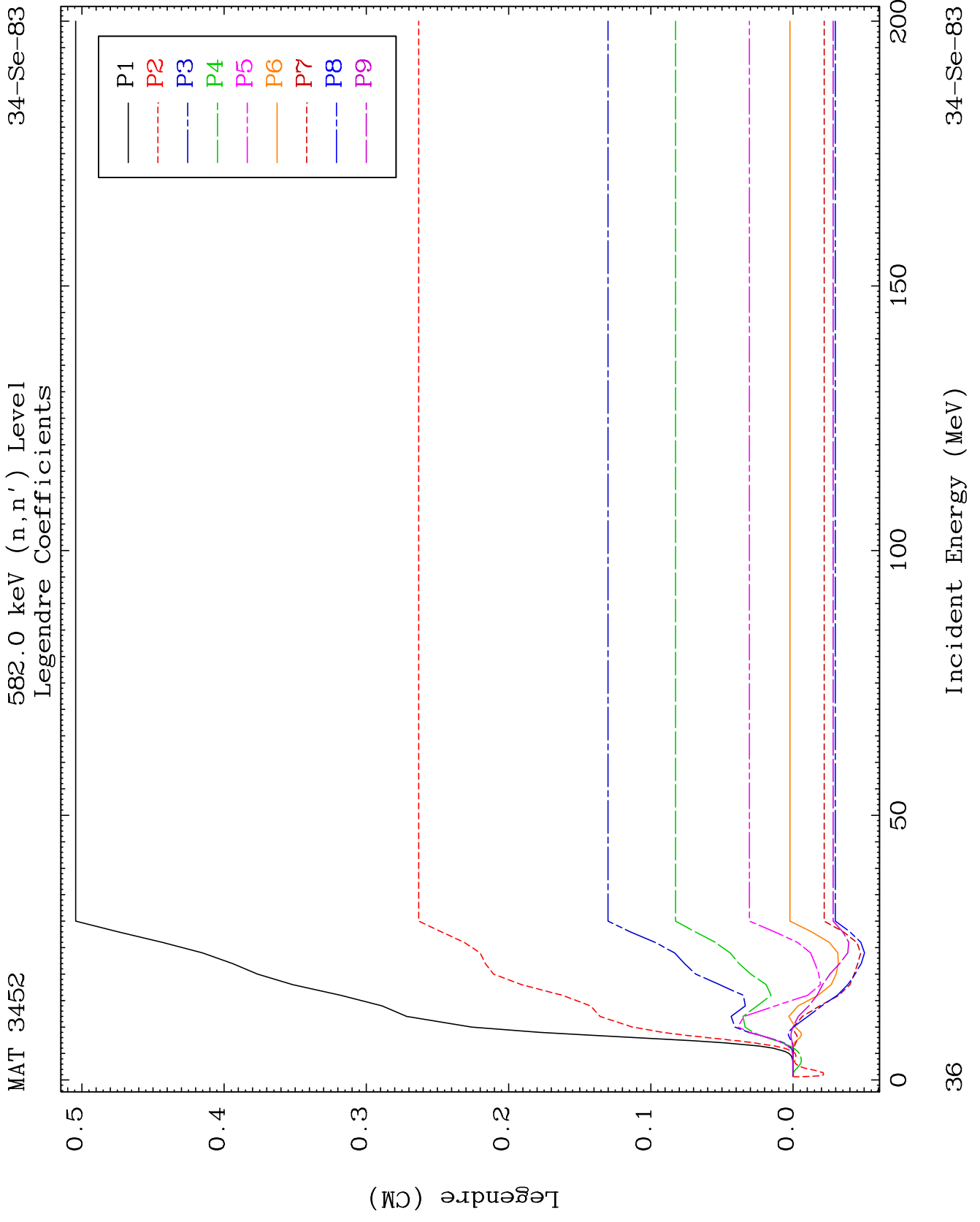
³⁴Se-83

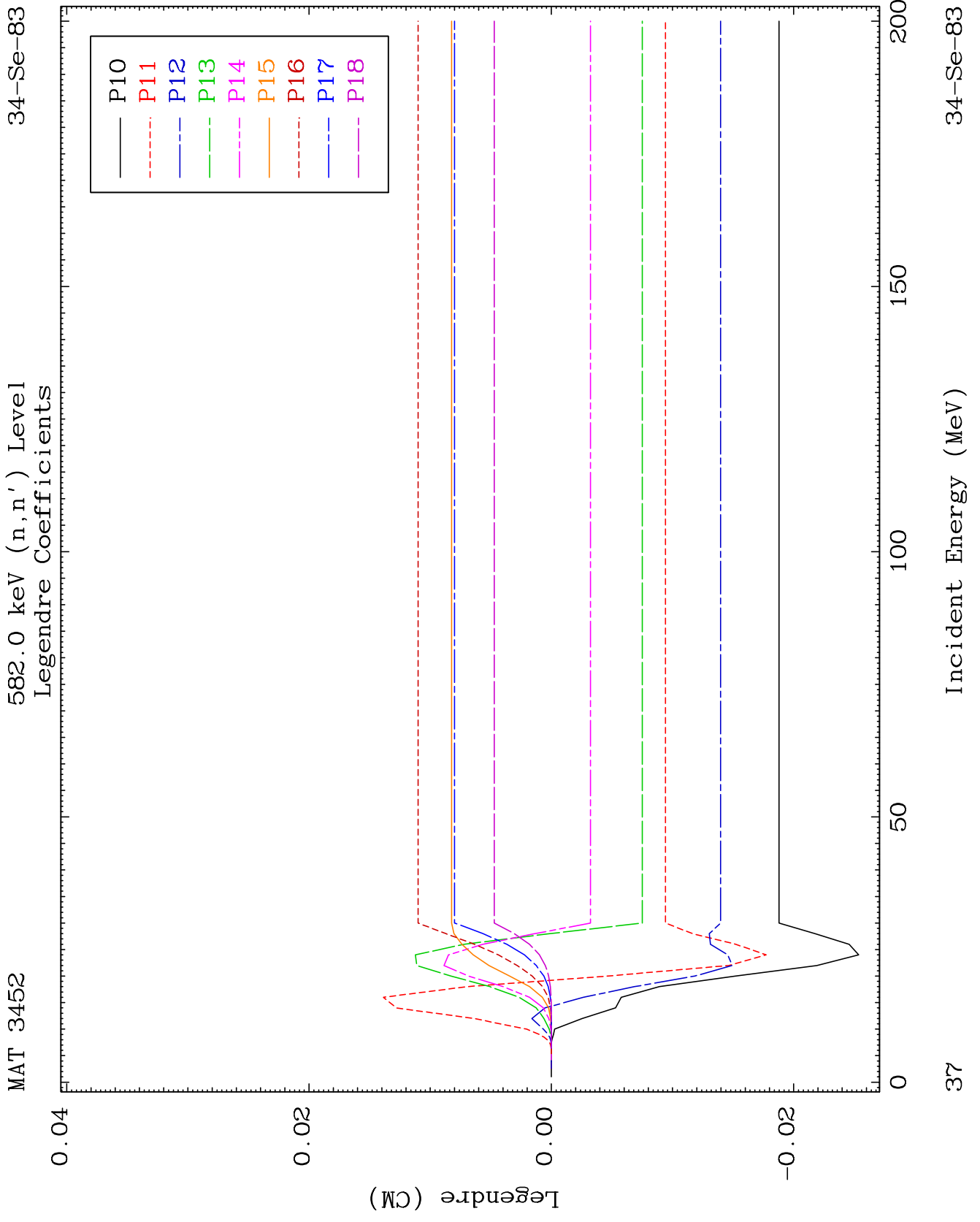
MAT 3452

539.5 keV (n,n') Level
Legendre Coefficients

34-Se-83



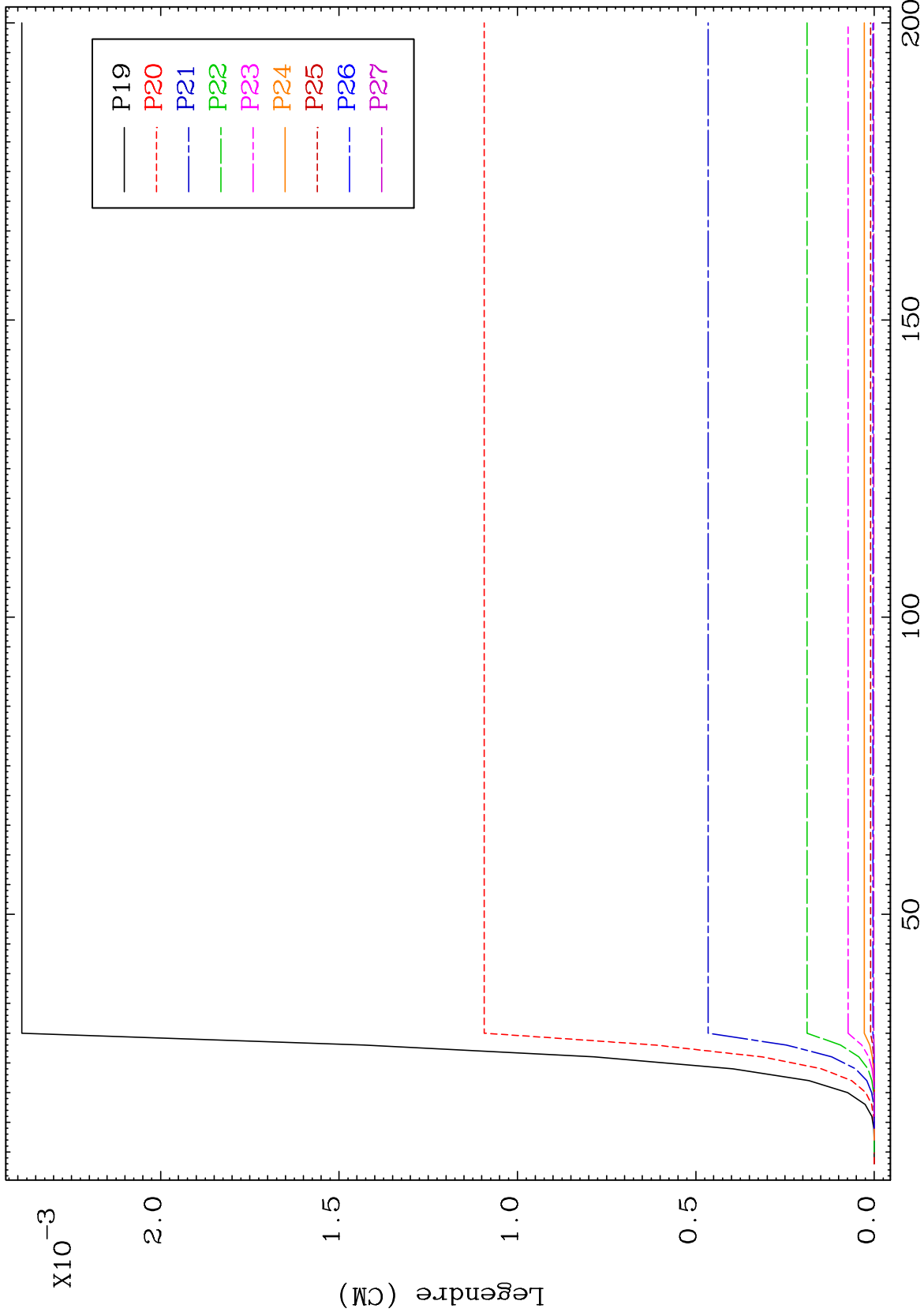




MAT 3452

582.0 keV (n,n') Level
Legendre Coefficients

³⁴Se-83



38

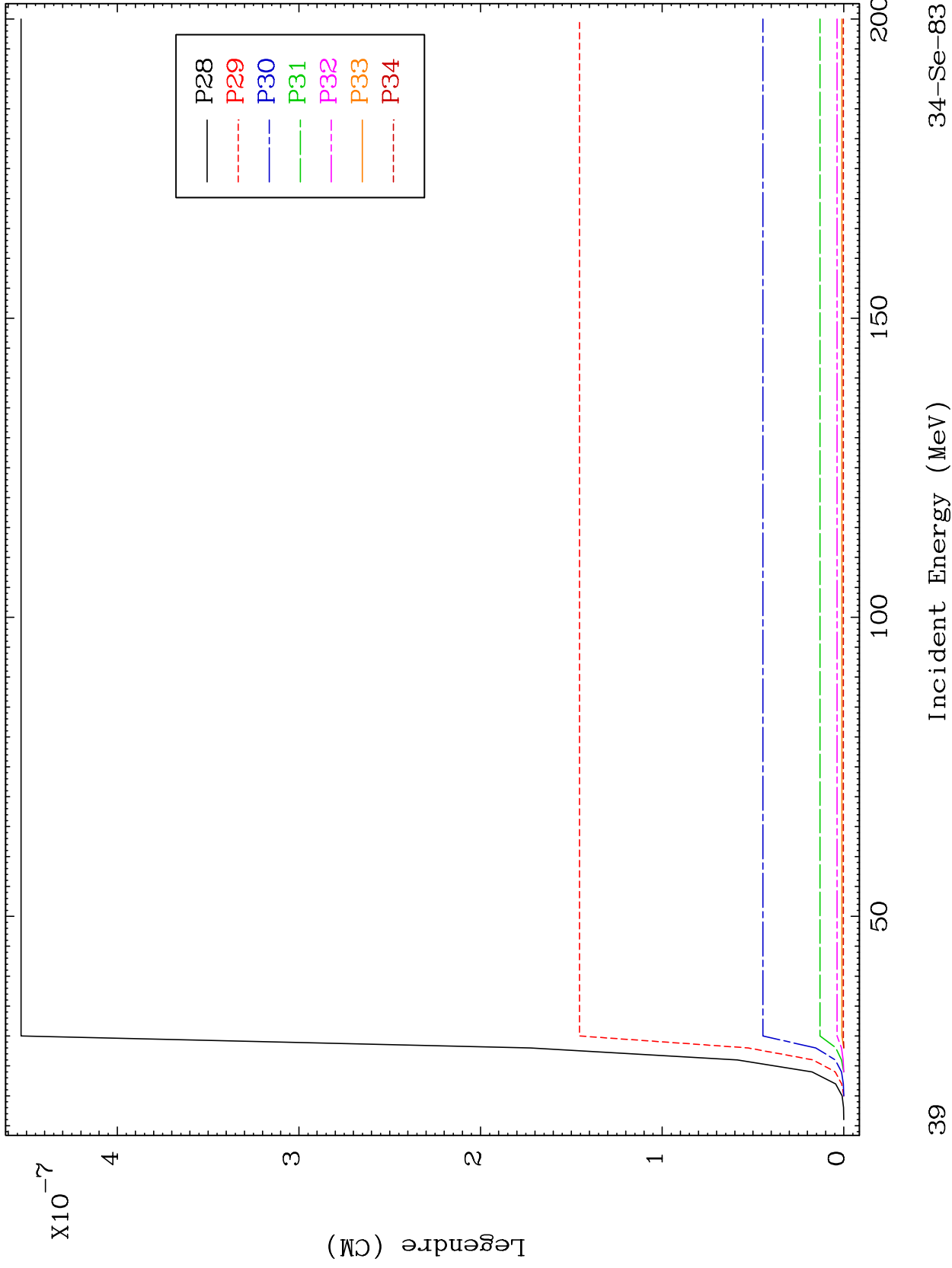
Incident Energy (MeV)

³⁴Se-83

MAT 3452

582.0 keV (n,n') Level
Legendre Coefficients

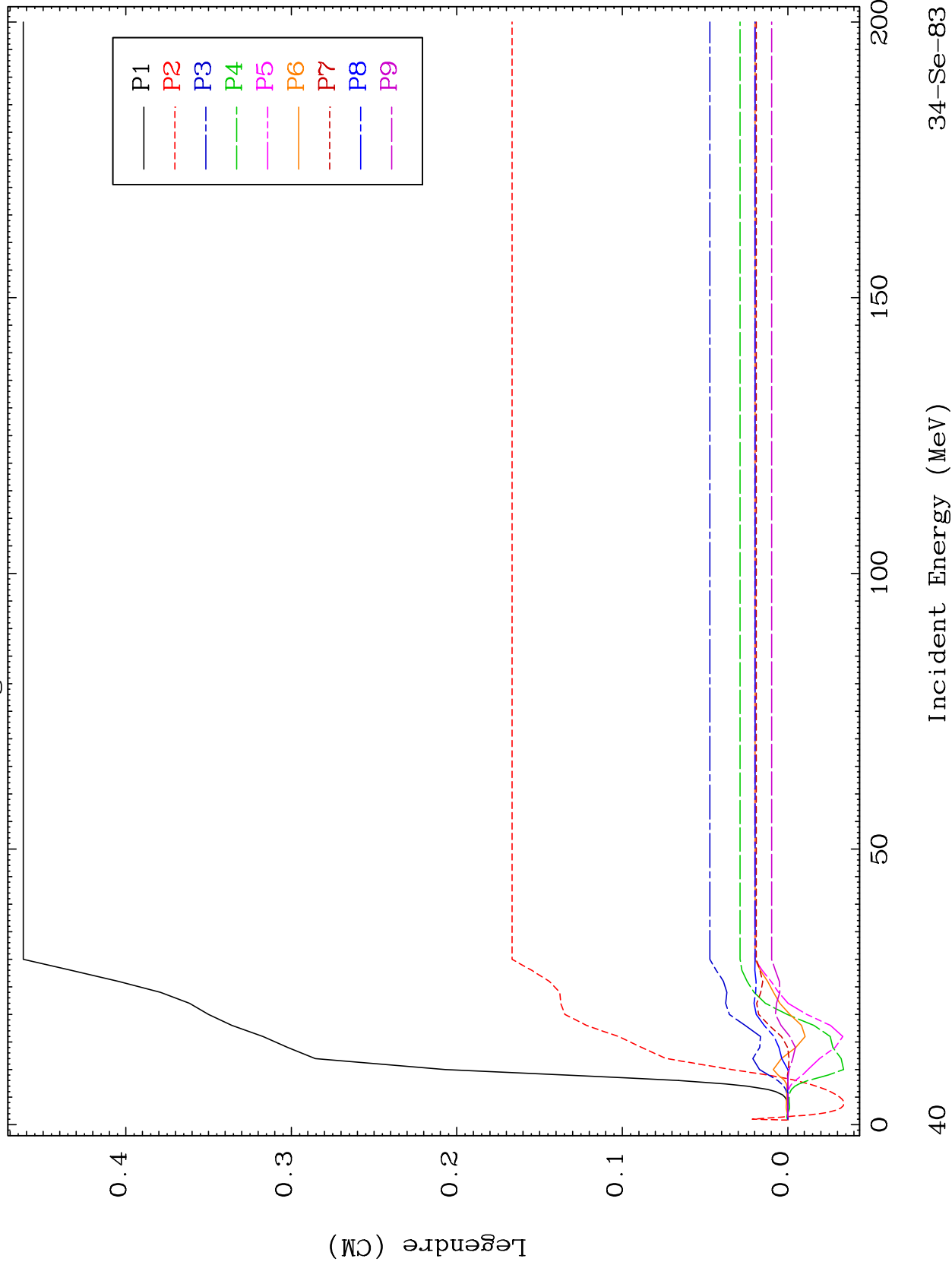
34-Se-83



MAT 3452

822.0 keV (n,n') Level
Legendre Coefficients

34-Se-83



34-Se-83

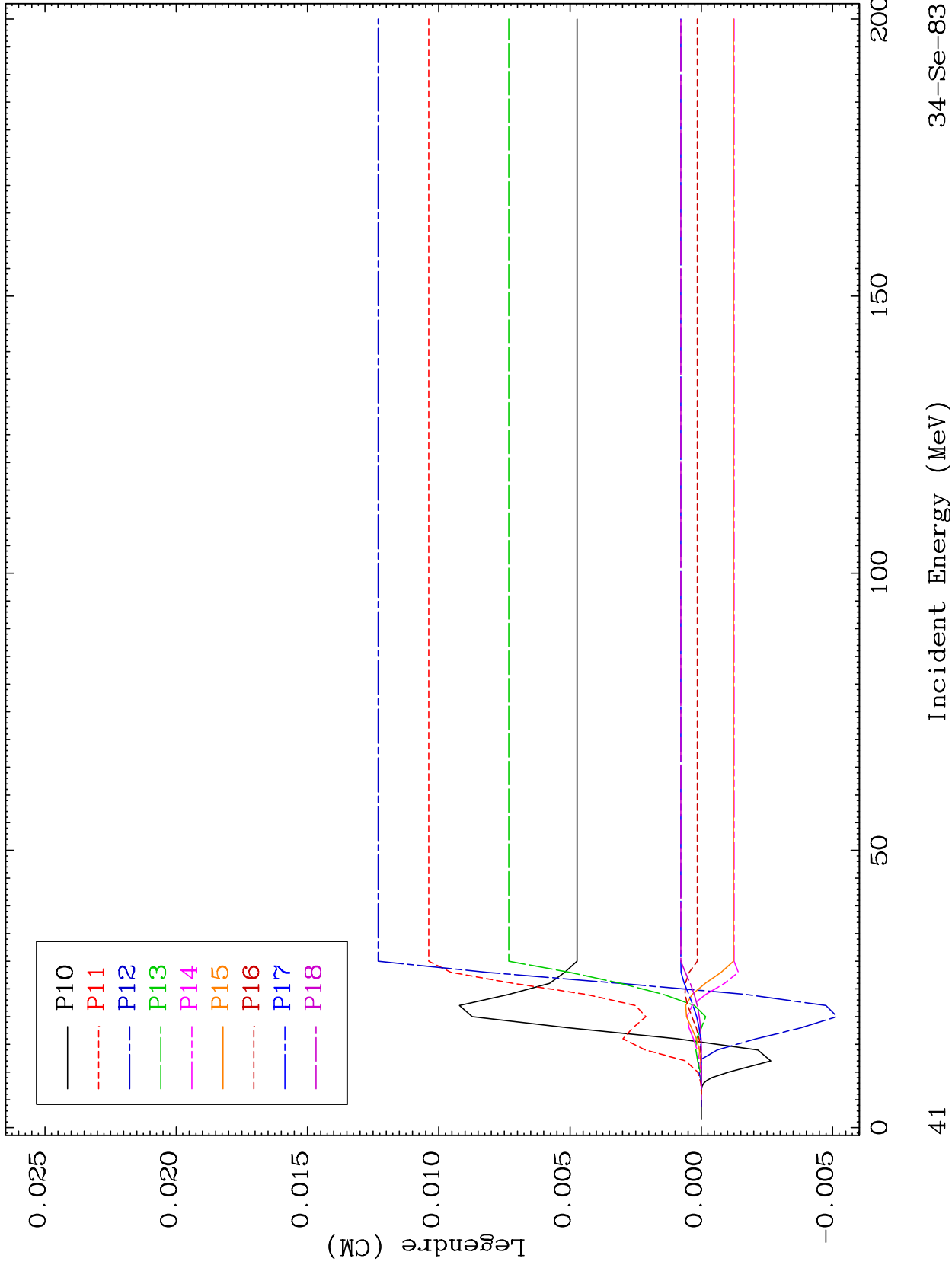
Incident Energy (MeV)

40

MAT 3452

822.0 keV (n,n') Level
Legendre Coefficients

³⁴Se-83



41

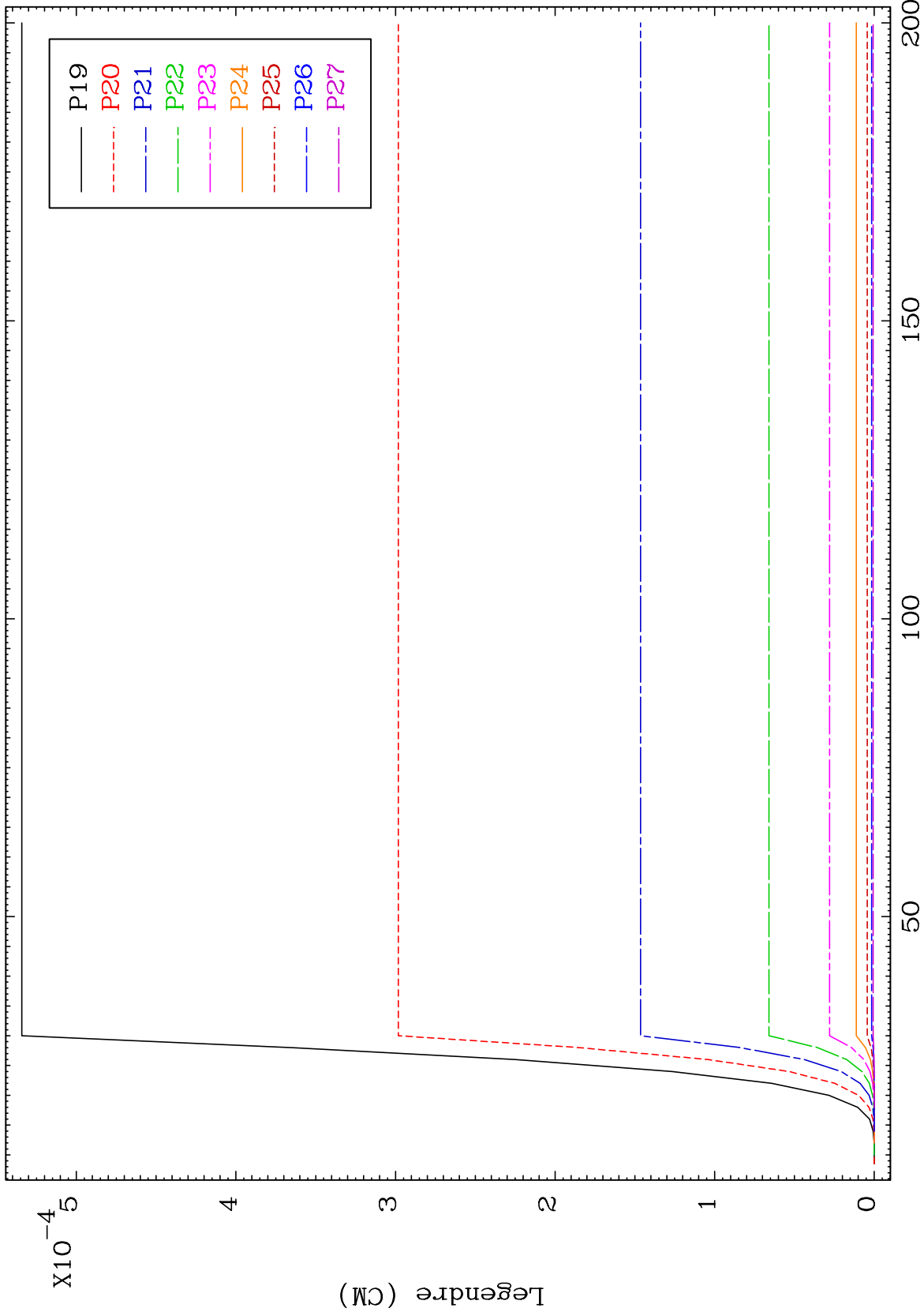
Incident Energy (MeV)

³⁴Se-83

MAT 3452

822.0 keV (n,n') Level
Legendre Coefficients

³⁴Se-83



42

Incident Energy (MeV)

50

100

150

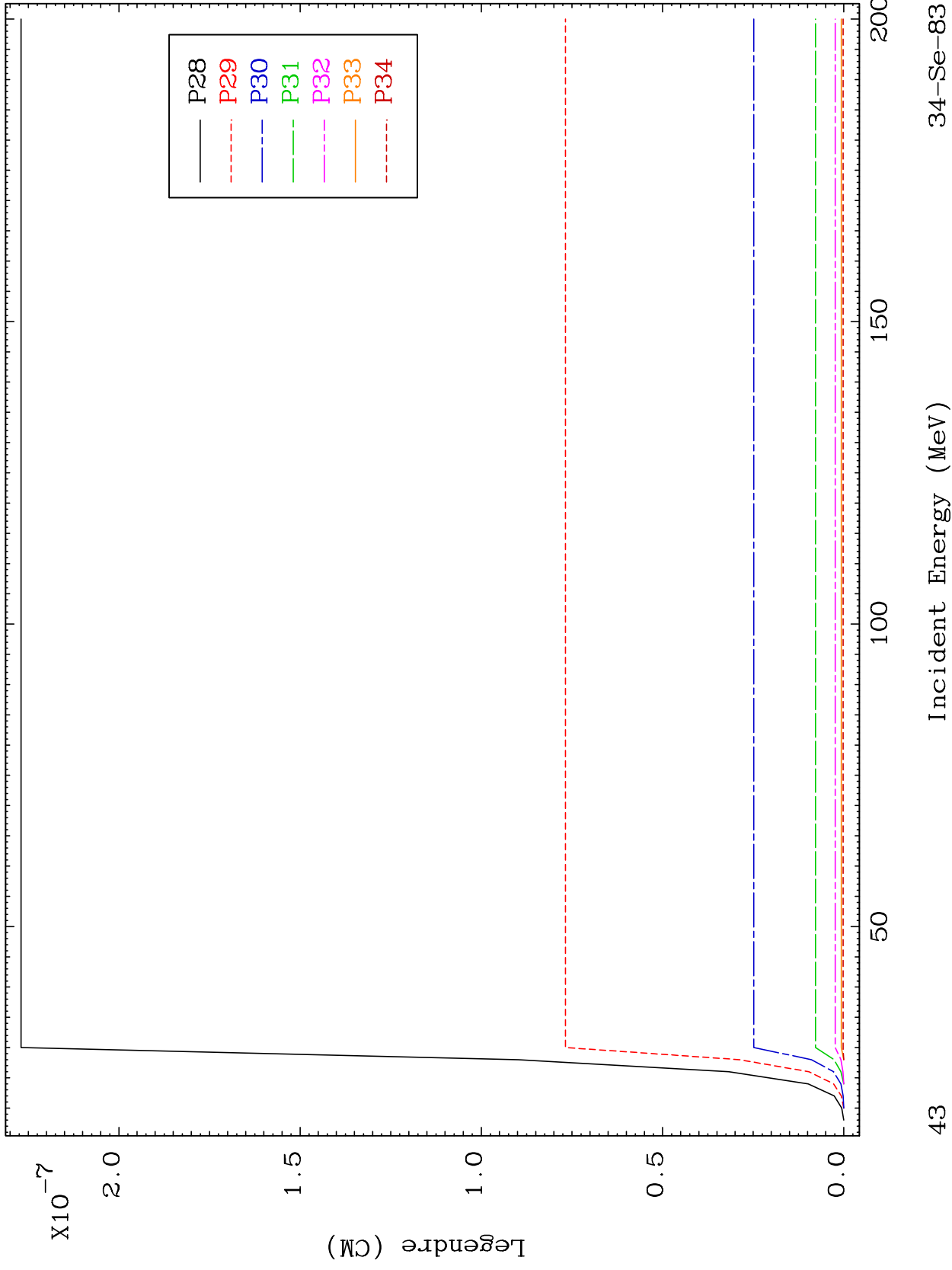
200

³⁴Se-83

MAT 3452

822.0 keV (n,n') Level
Legendre Coefficients

34-Se-83



43

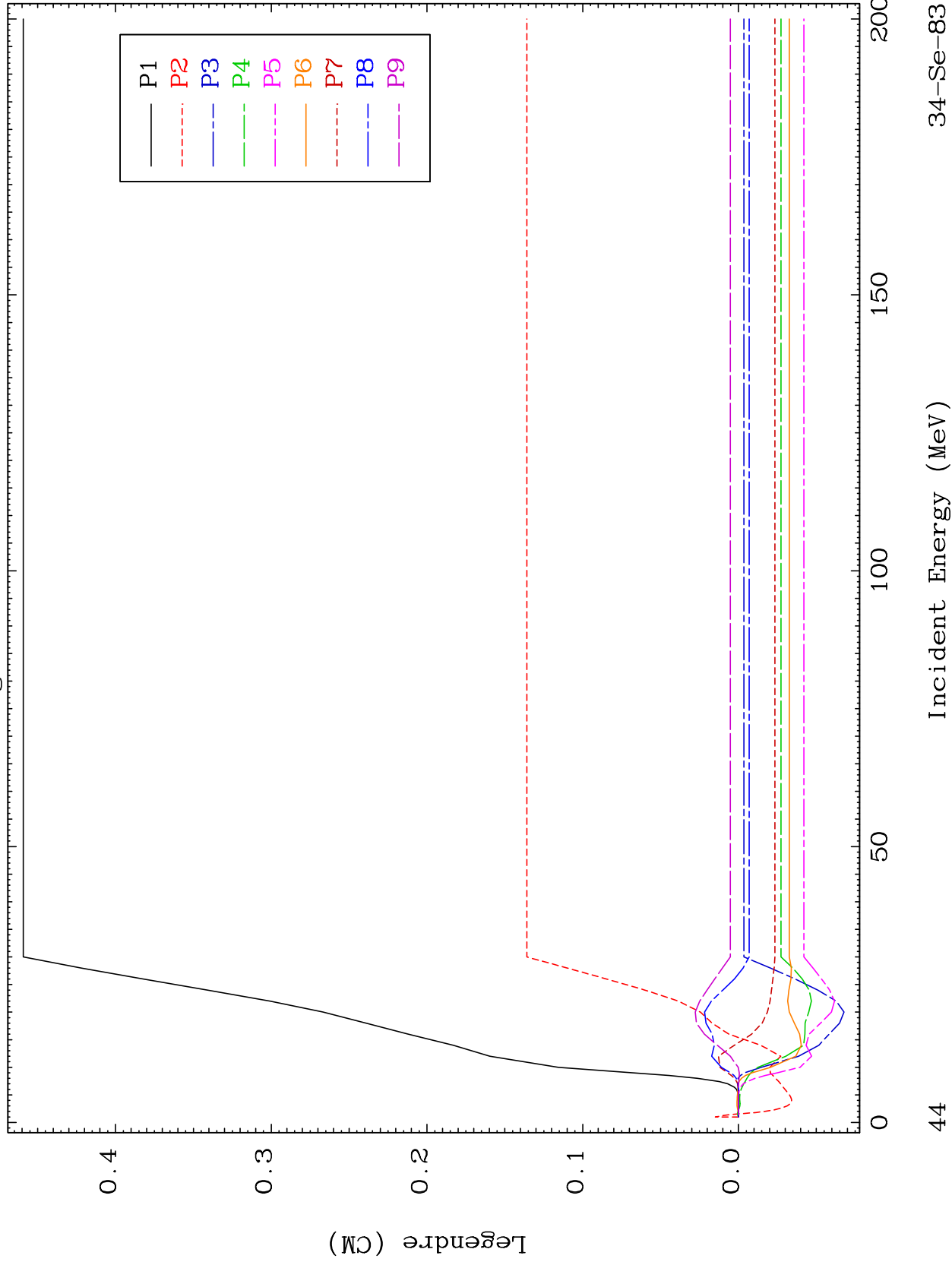
Incident Energy (MeV)

34-Se-83

MAT 3452

963.1 keV (n,n') Level
Legendre Coefficients

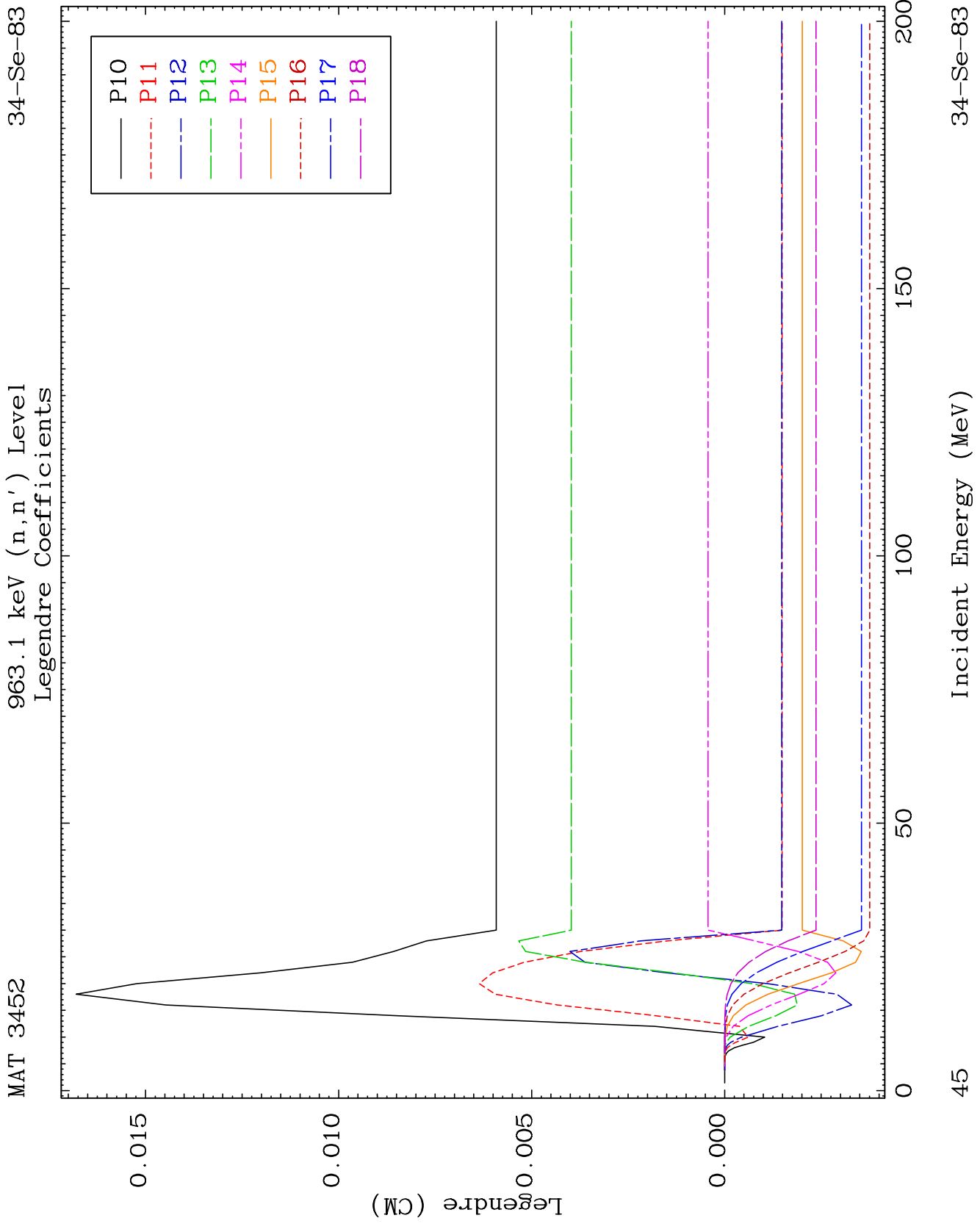
34-Se-83

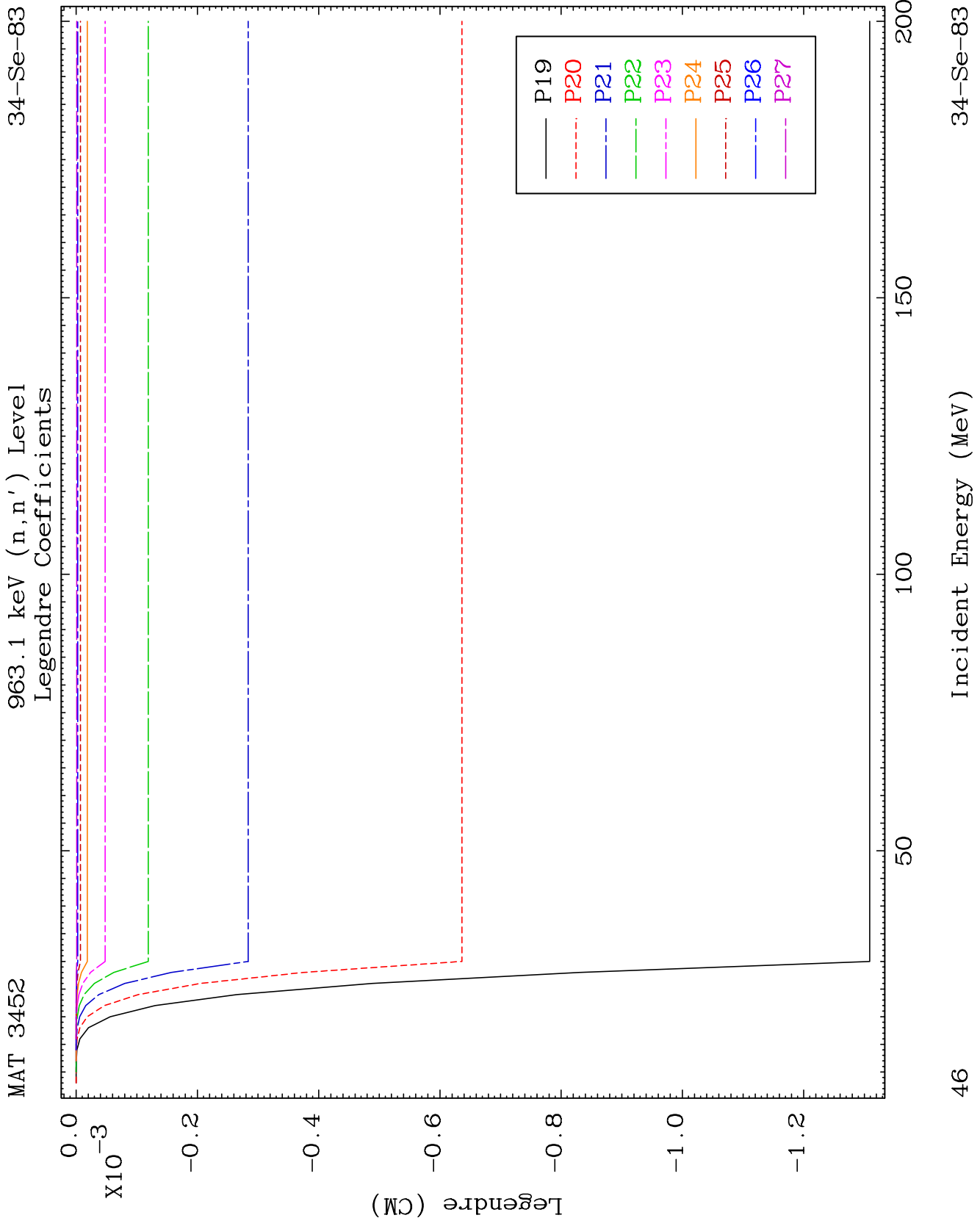


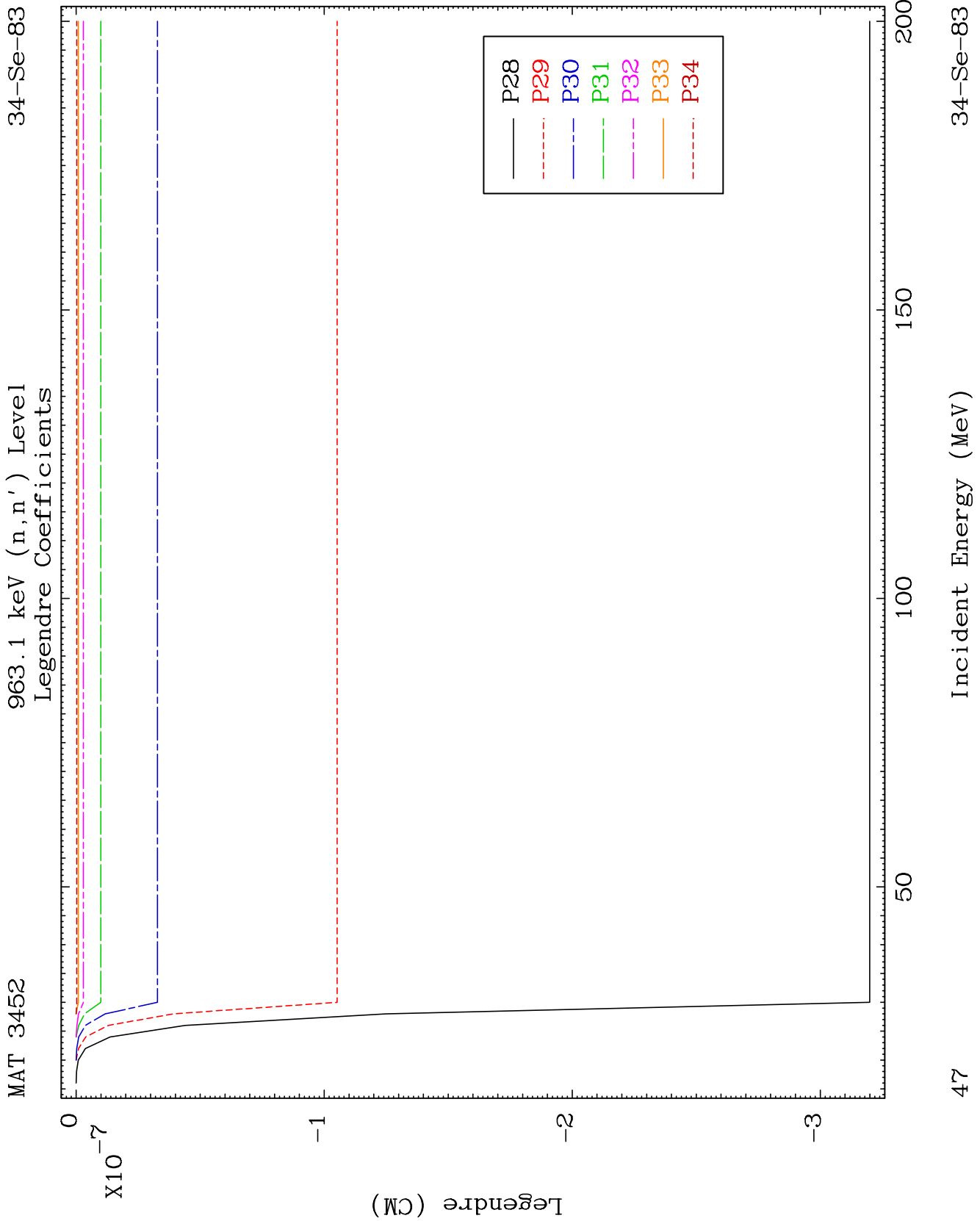
44

Incident Energy (MeV)

34-Se-83



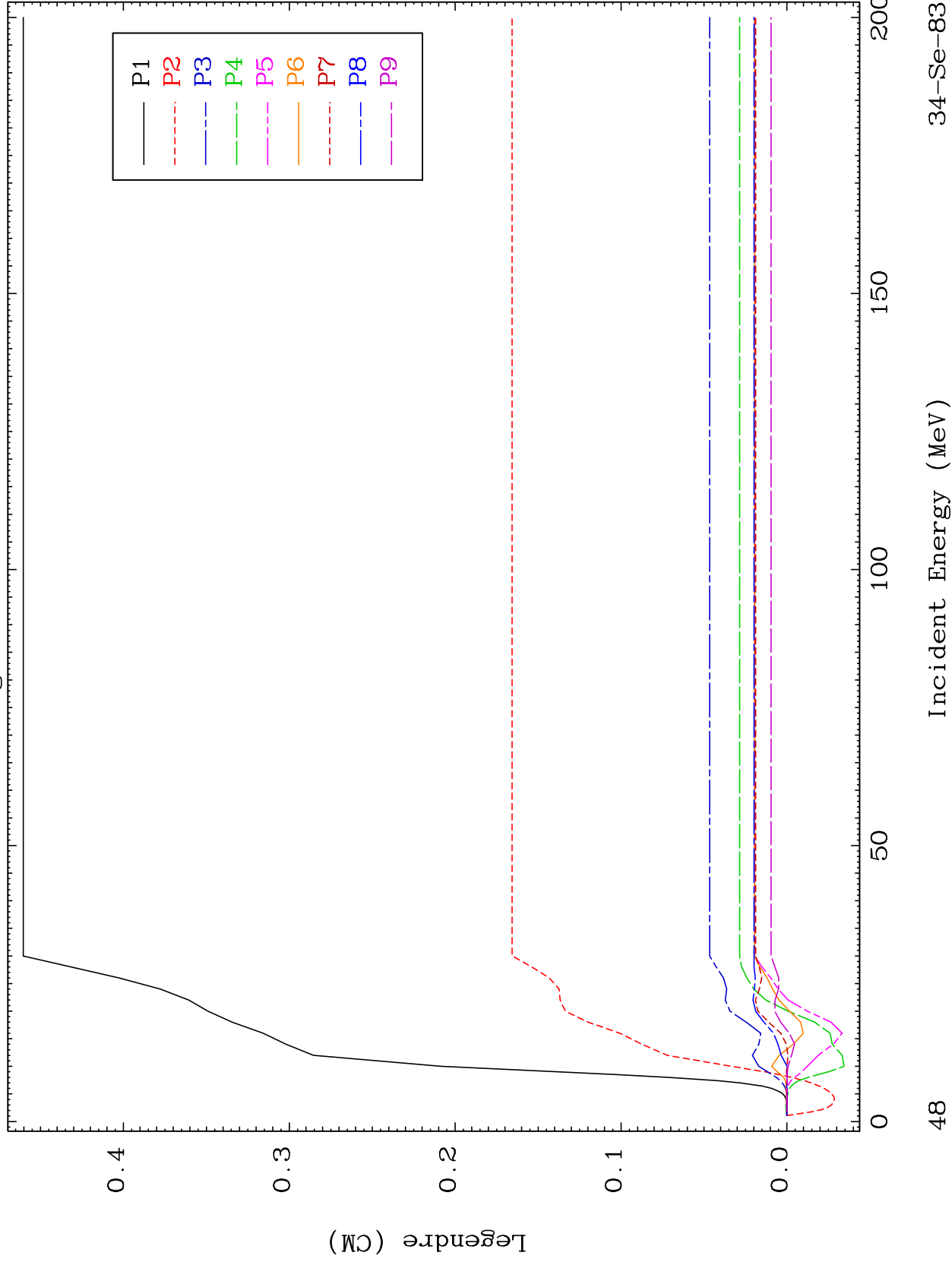




MAT 3452

1.063 MeV (n,n') Level
Legendre Coefficients

34-Se-83



48

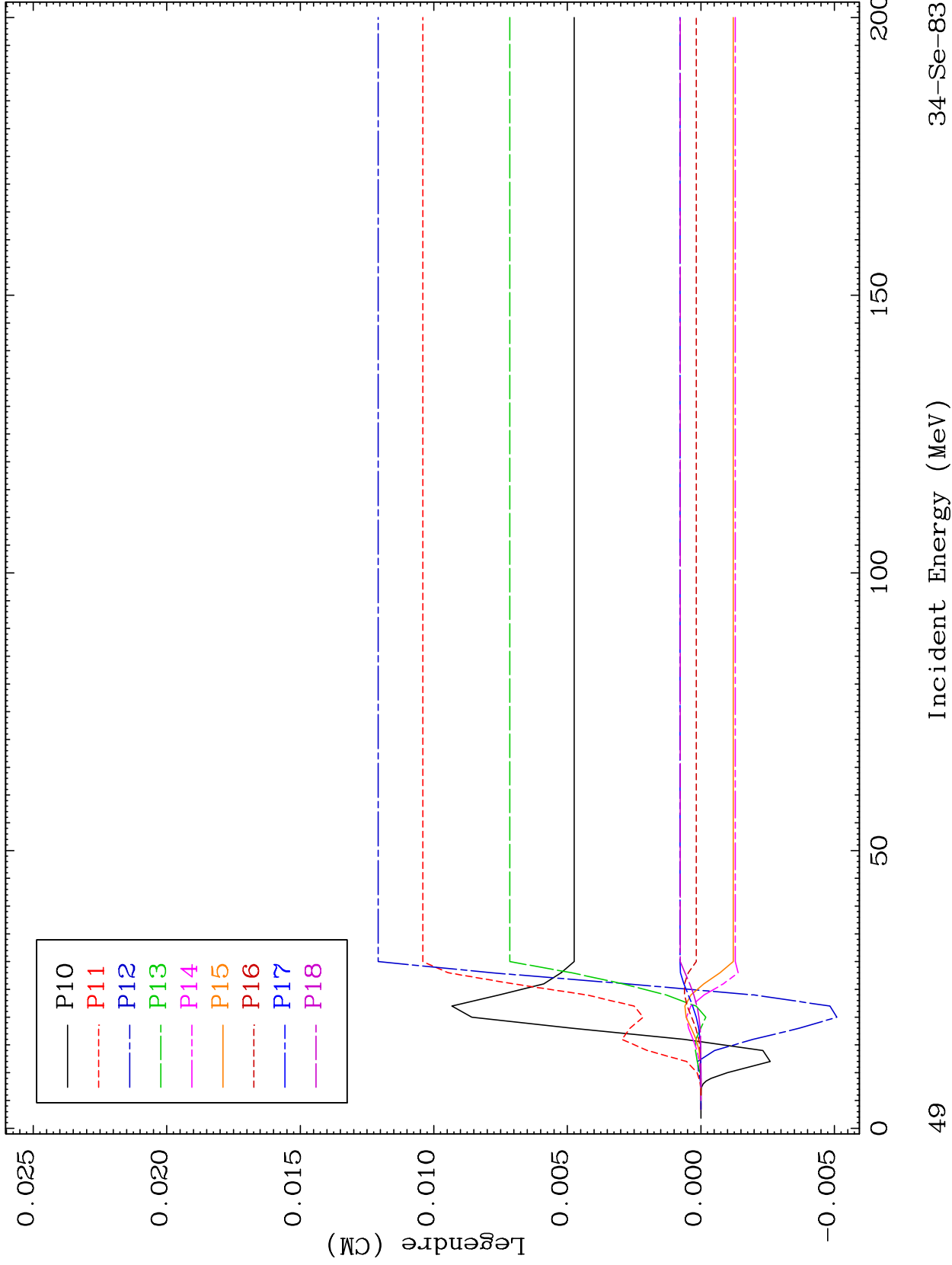
Incident Energy (MeV)

34-Se-83

MAT 3452

1.063 MeV (n,n') Level
Legendre Coefficients

34-Se-83



49

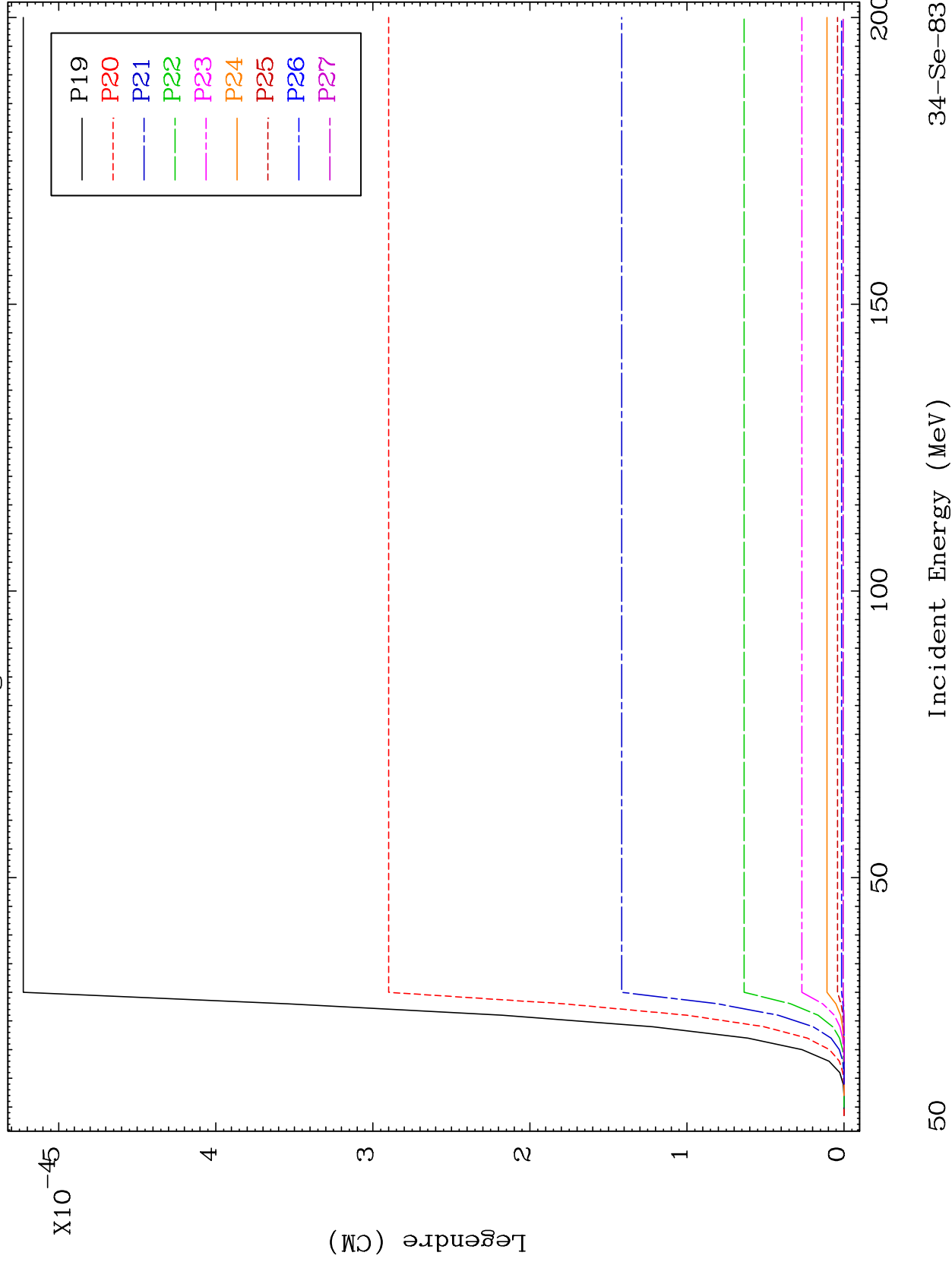
Incident Energy (MeV)

34-Se-83

MAT 3452

1.063 MeV (n,n') Level
Legendre Coefficients

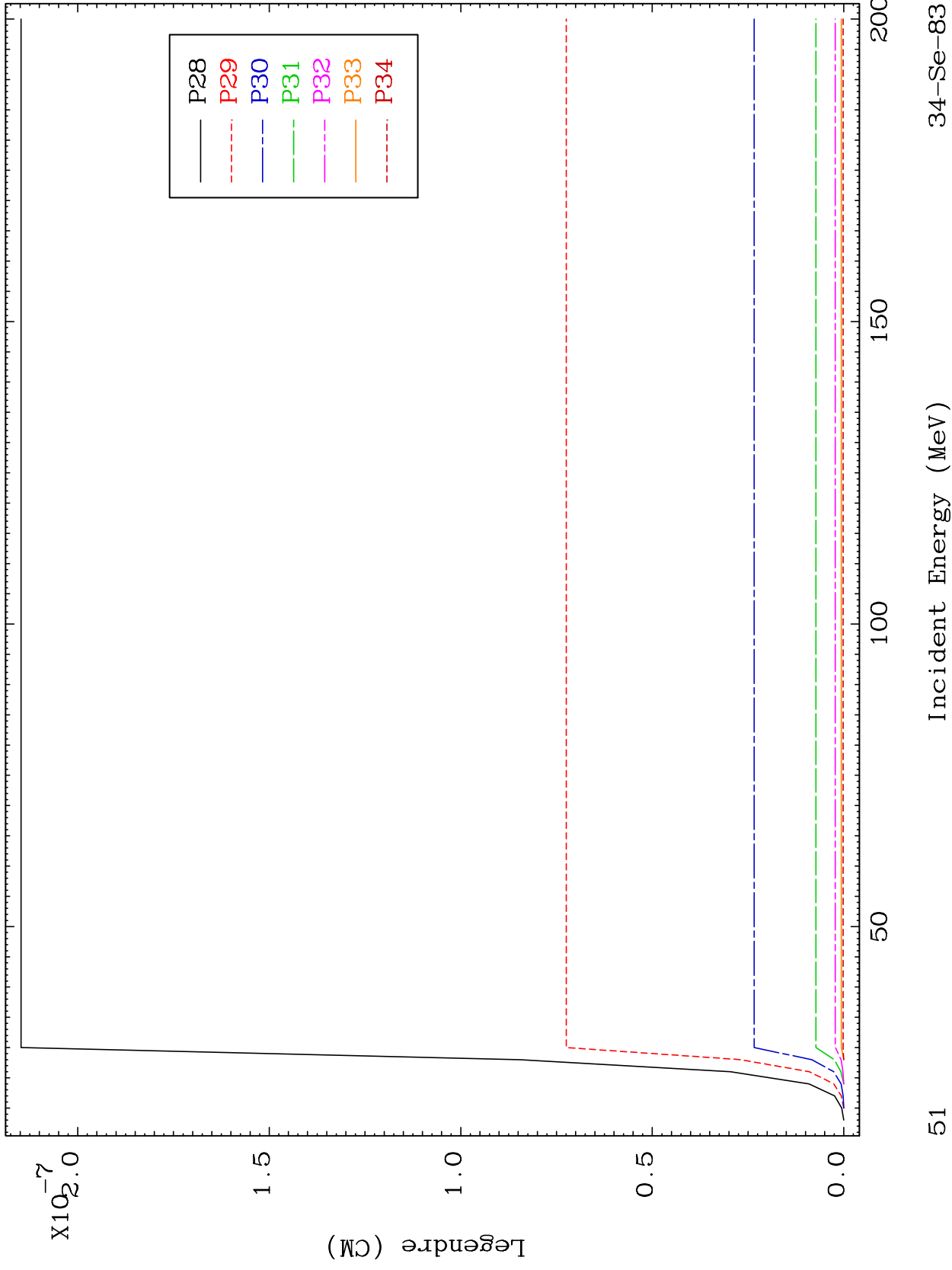
³⁴Se-83



MAT 3452

1.063 MeV (n,n') Level
Legendre Coefficients

34-Se-83



51

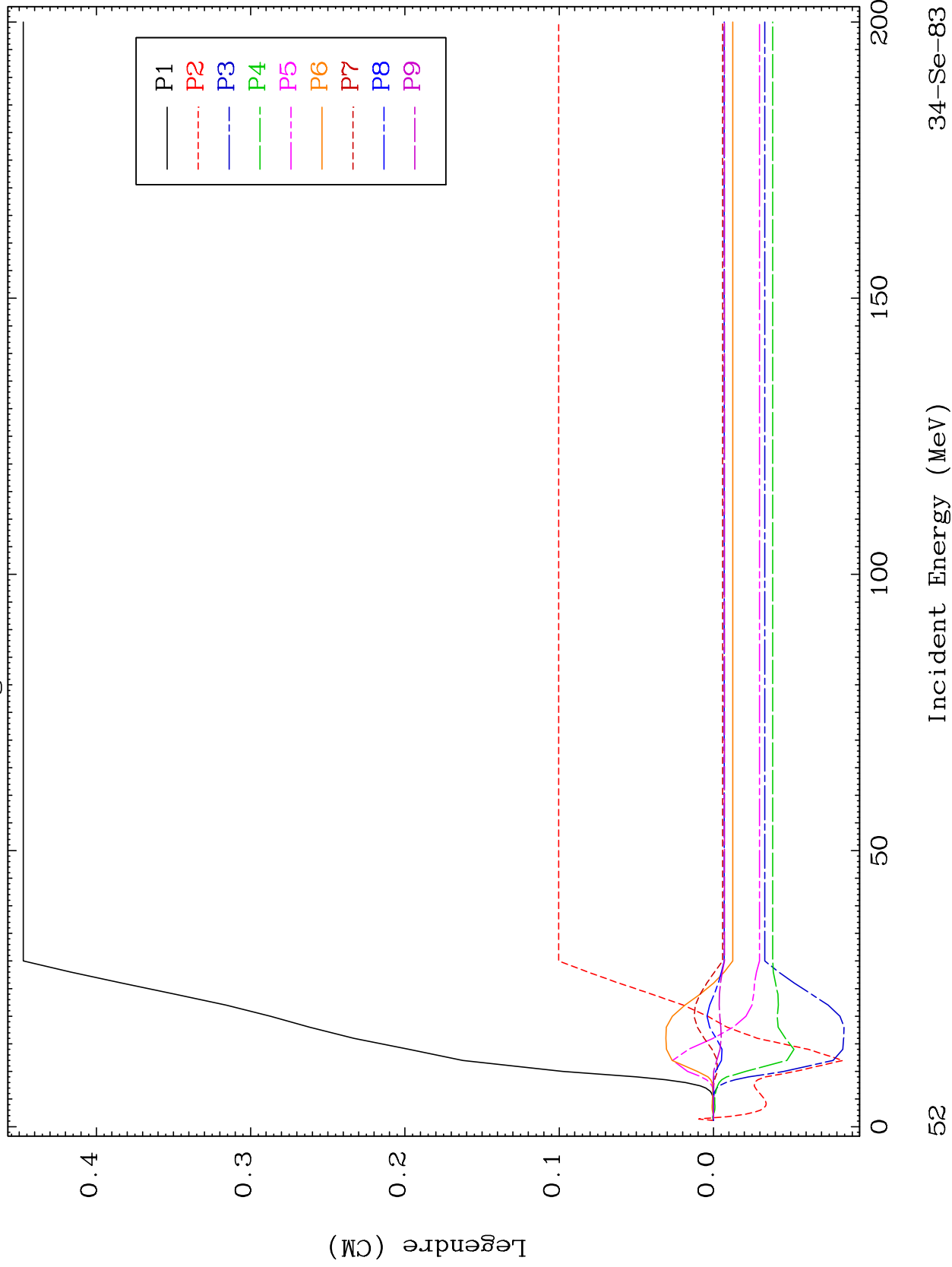
Incident Energy (MeV)

34-Se-83

MAT 3452

1.100 MeV (n,n') Level Legendre Coefficients

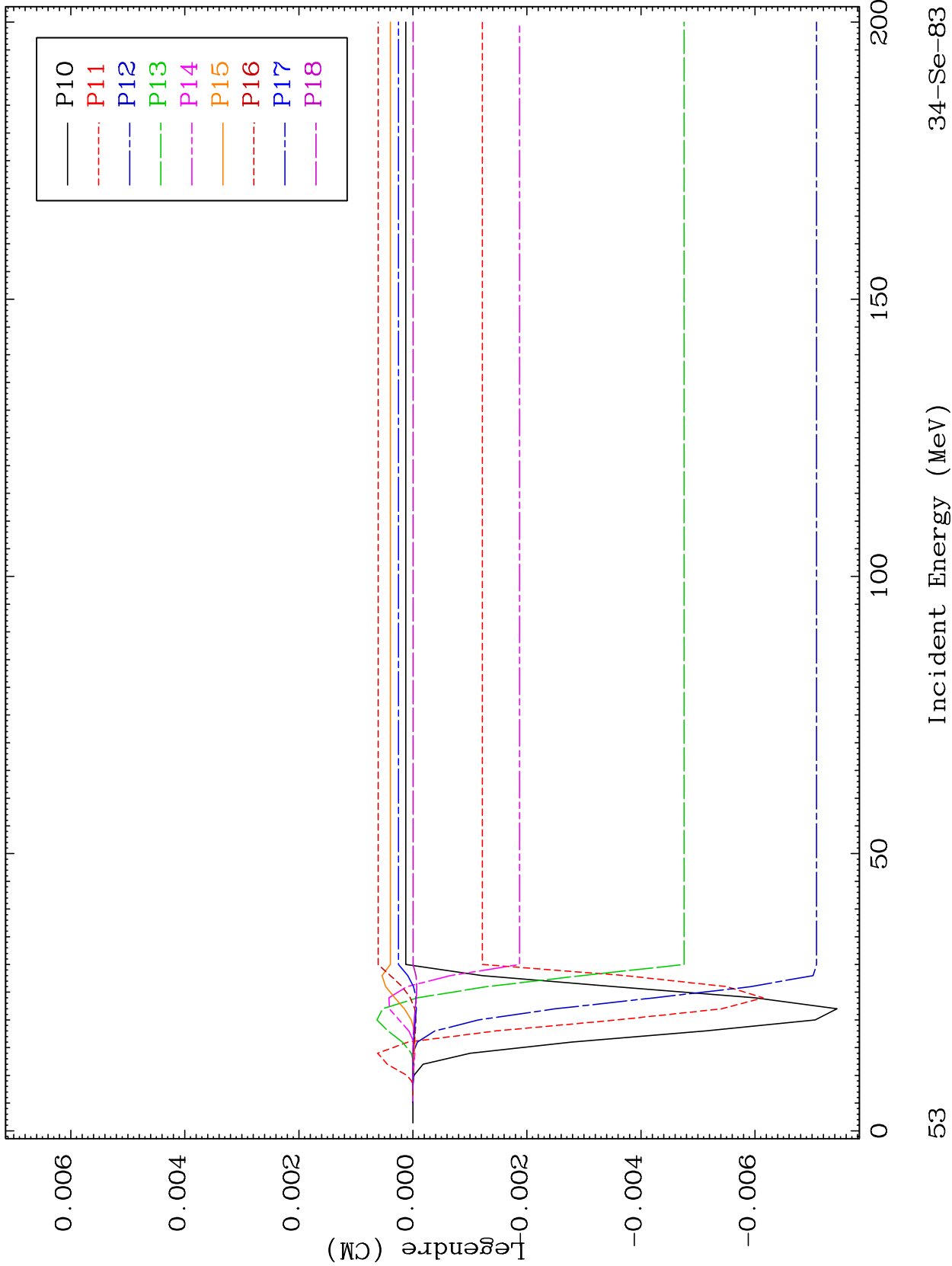
³⁴Se-83



³⁴Se-83

Incident Energy (MeV)

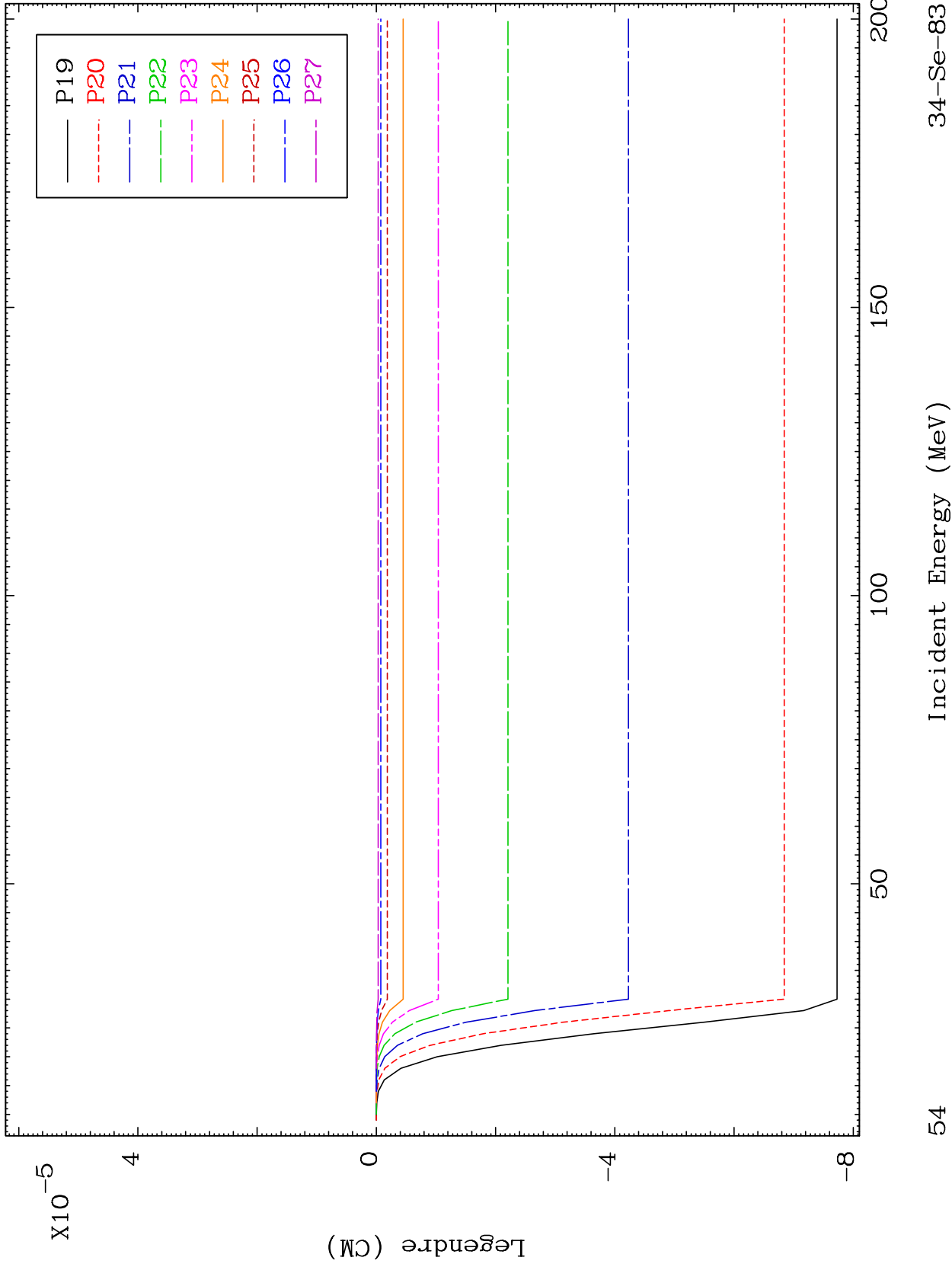
52



MAT 3452

1.100 MeV (n,n') Level
Legendre Coefficients

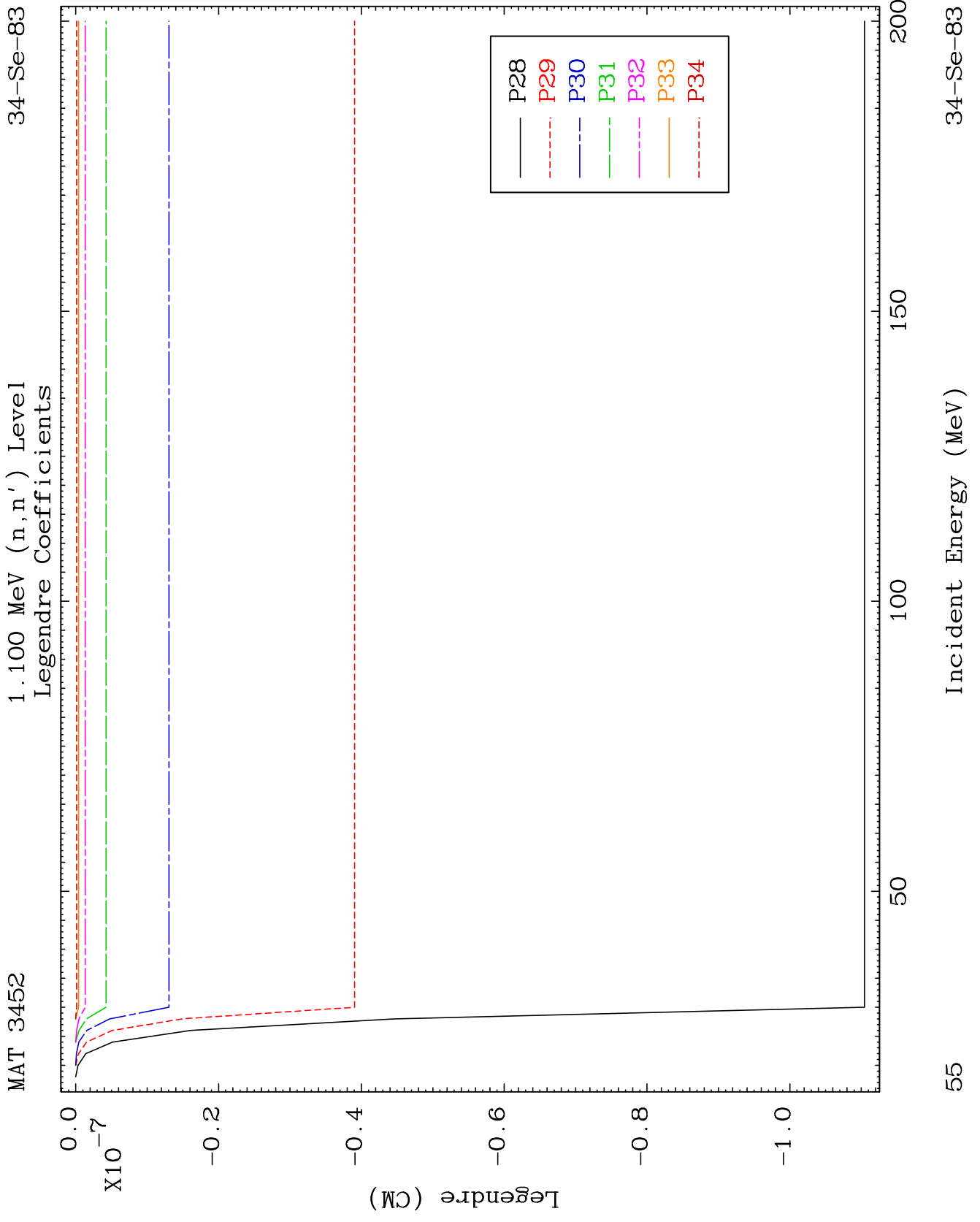
³⁴Se-83



54

Incident Energy (MeV)

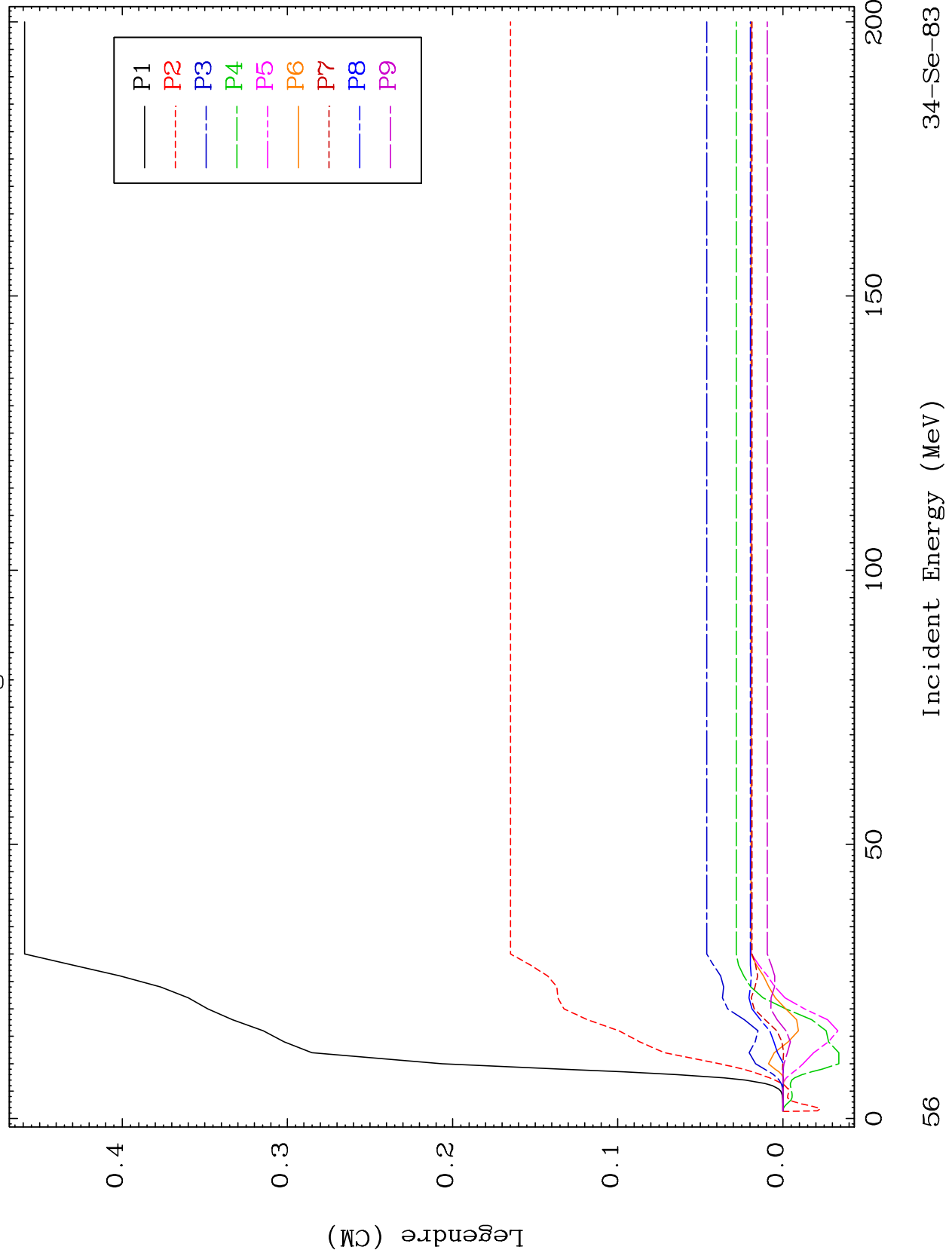
³⁴Se-83



MAT 3452

1.265 MeV (n,n') Level
Legendre Coefficients

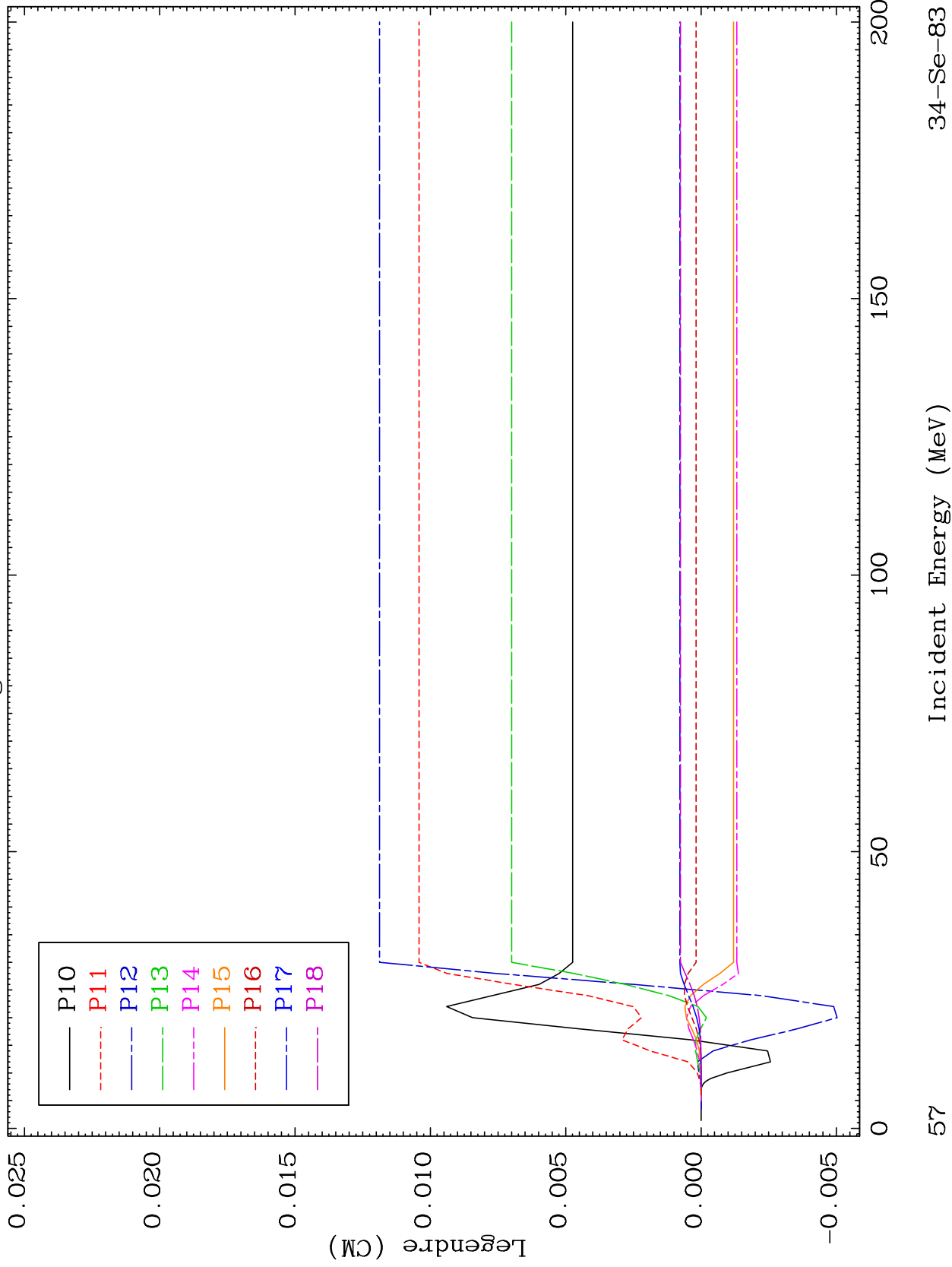
34-Se-83



34-Se-83

Incident Energy (MeV)

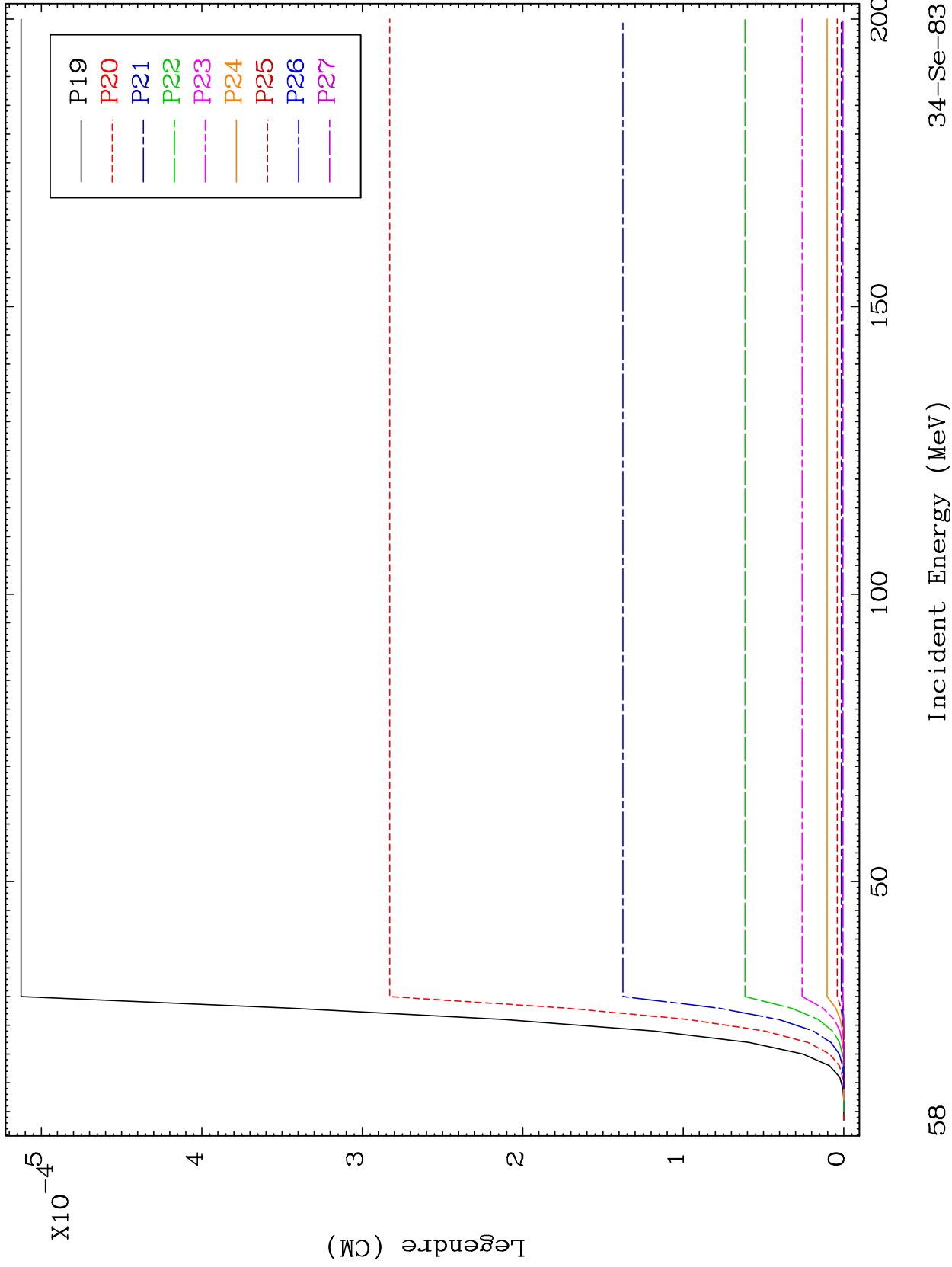
56



MAT 3452

1.265 MeV (n,n') Level
Legendre Coefficients

34-Se-83



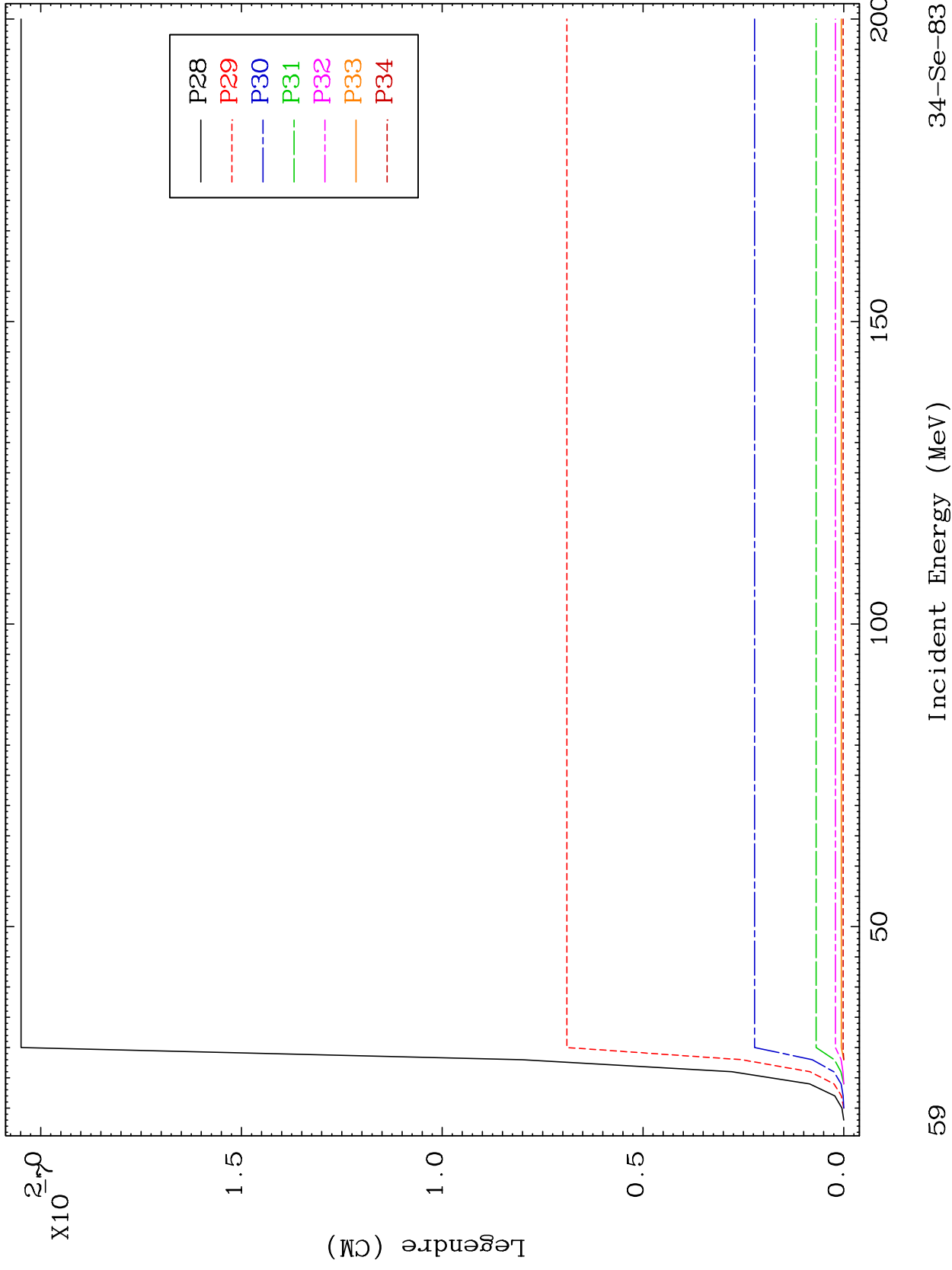
58

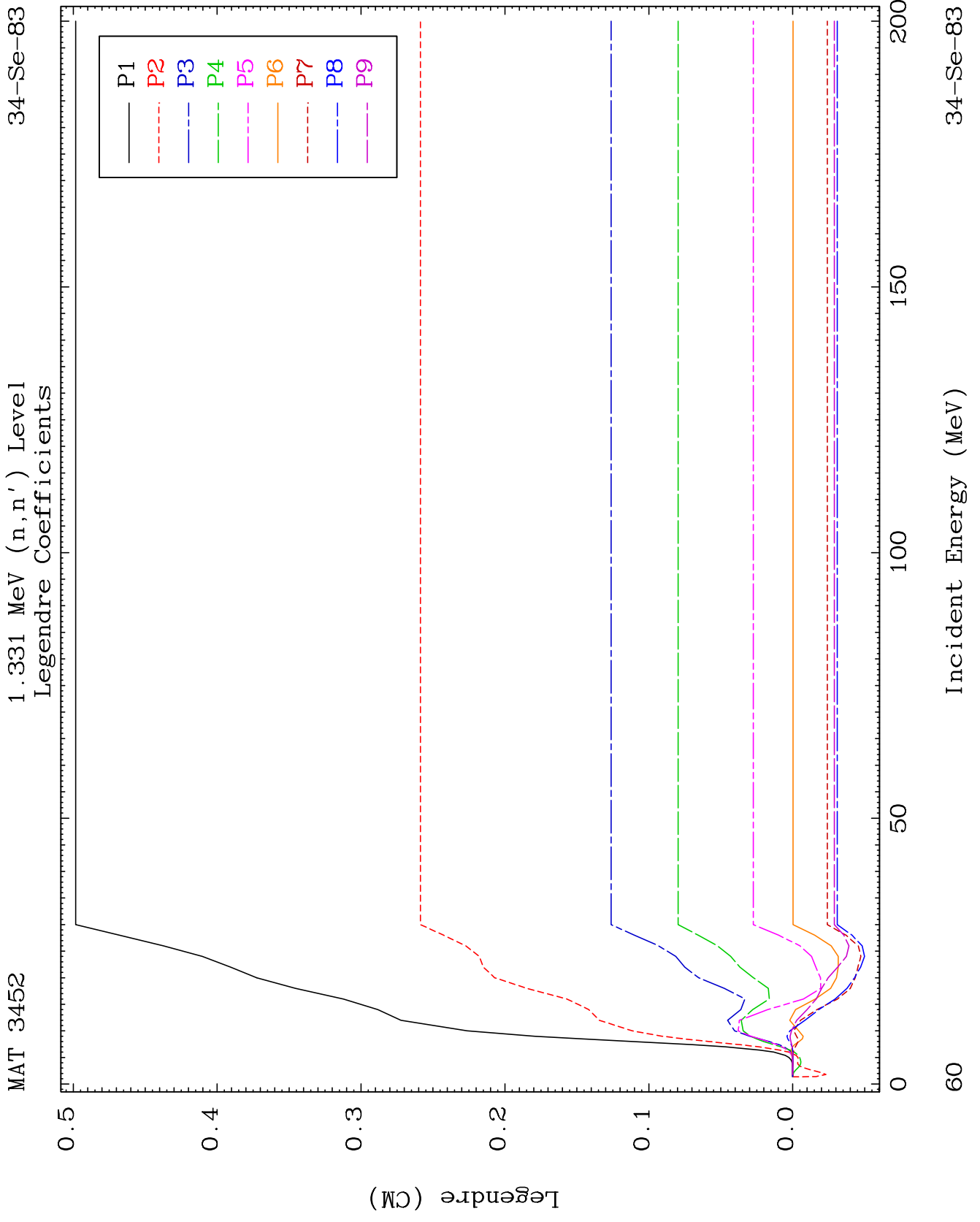
34-Se-83

MAT 3452

1.265 MeV (n,n') Level
Legendre Coefficients

34-Se-83

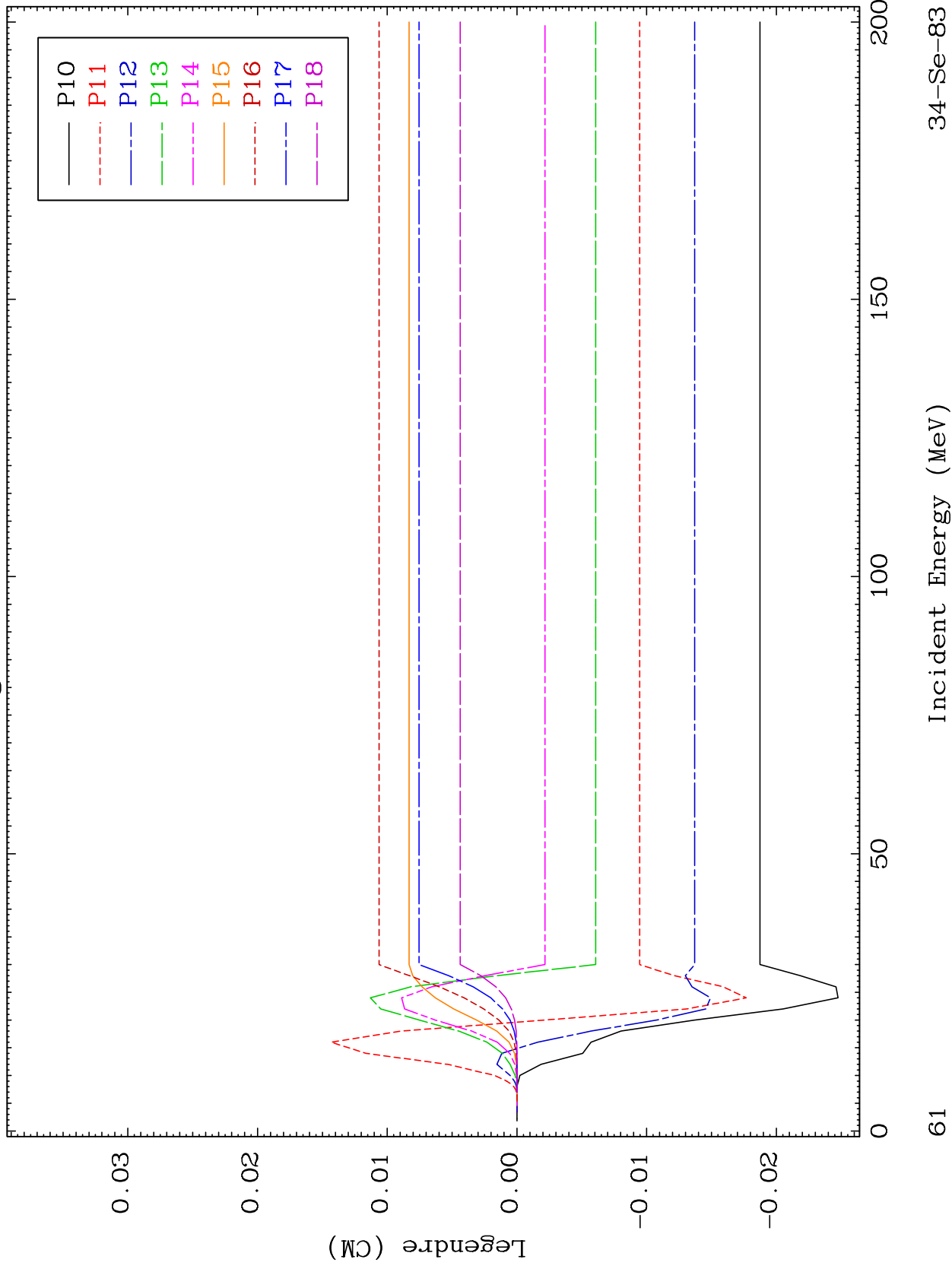




MAT 3452

1.331 MeV (n,n') Level
Legendre Coefficients

34-Se-83



61

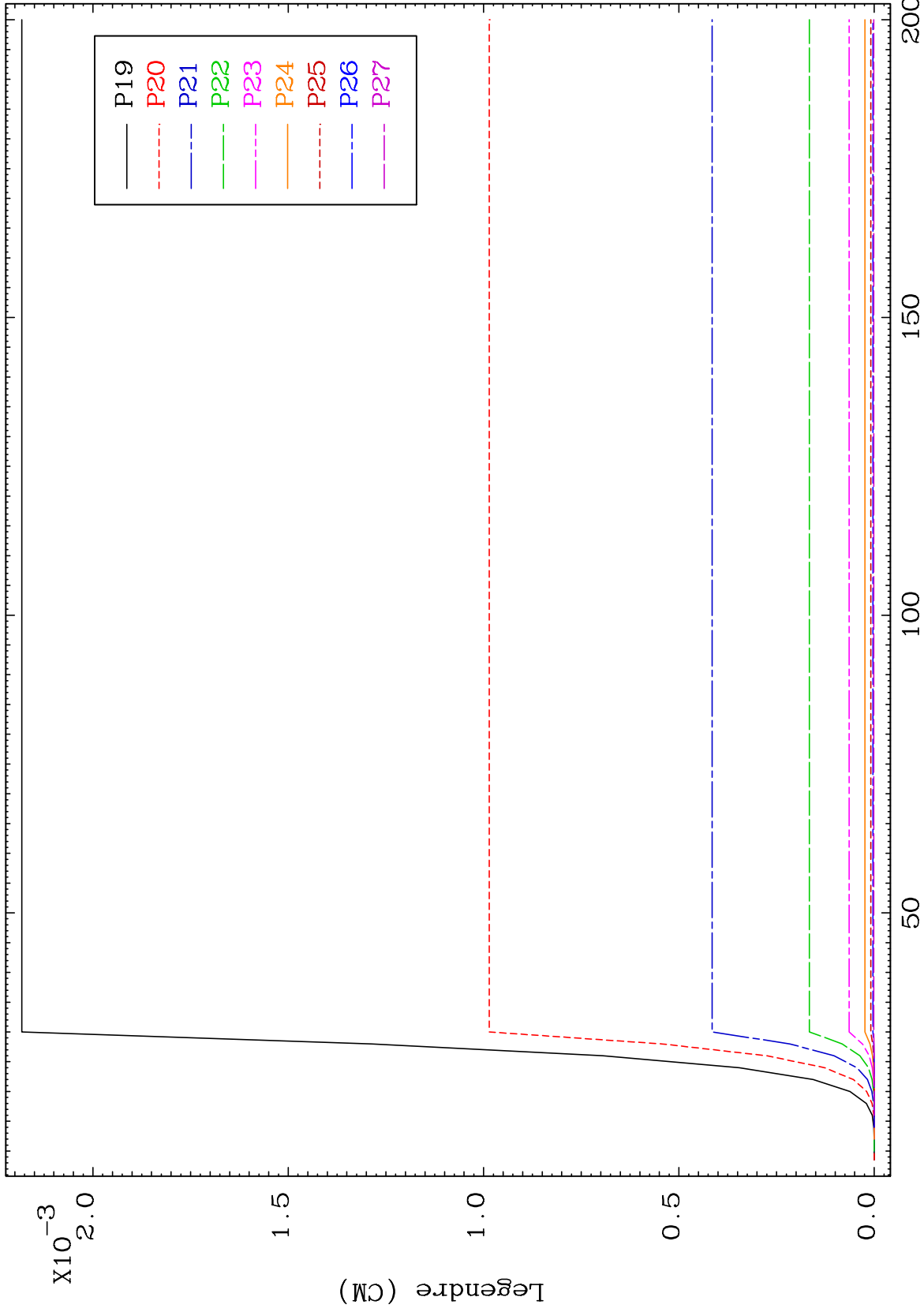
Incident Energy (MeV)

34-Se-83

MAT 3452

1.331 MeV (n,n') Level
Legendre Coefficients

34-Se-83



62

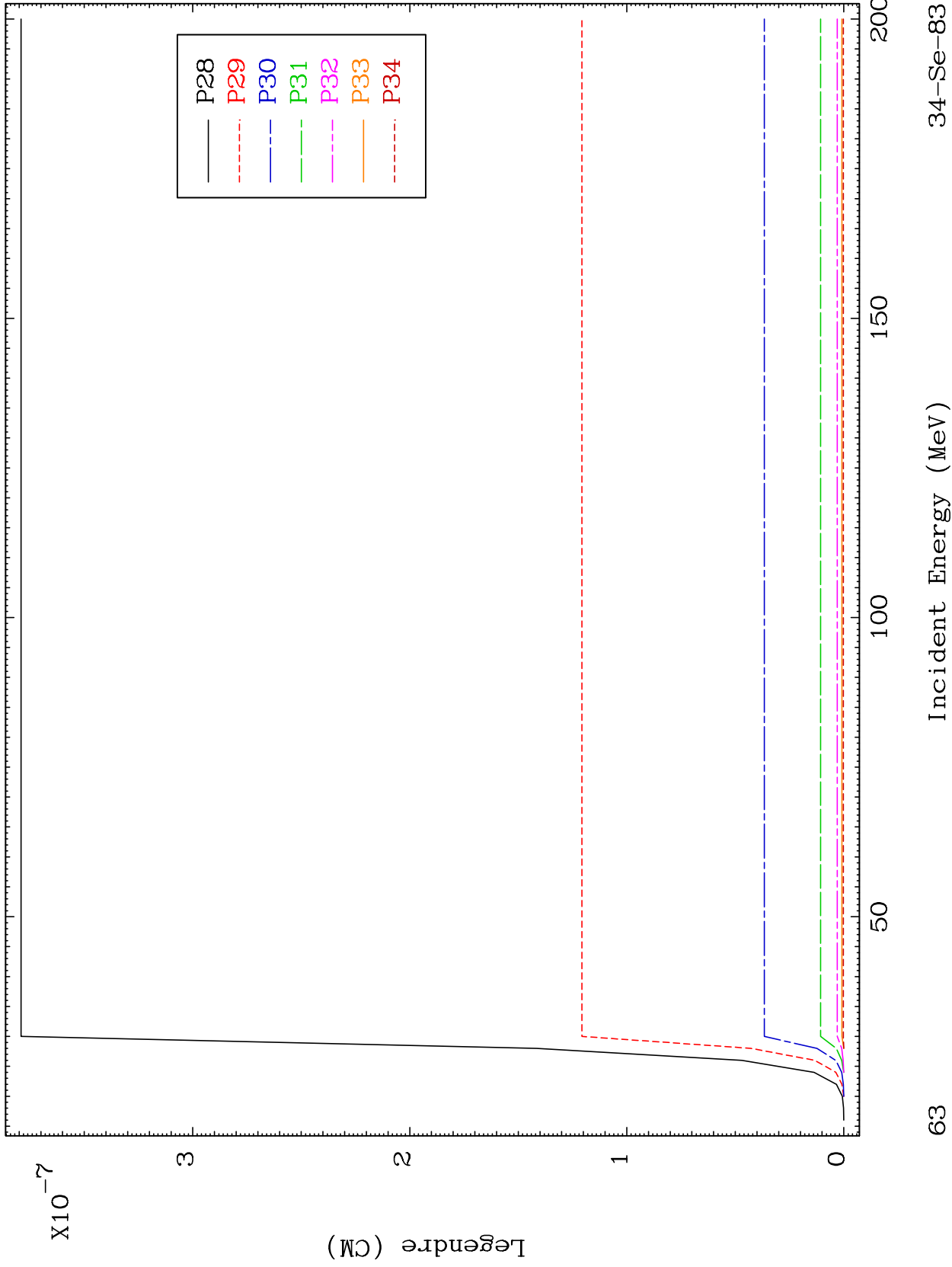
Incident Energy (MeV)

34-Se-83

MAT 3452

1.331 MeV (n,n') Level
Legendre Coefficients

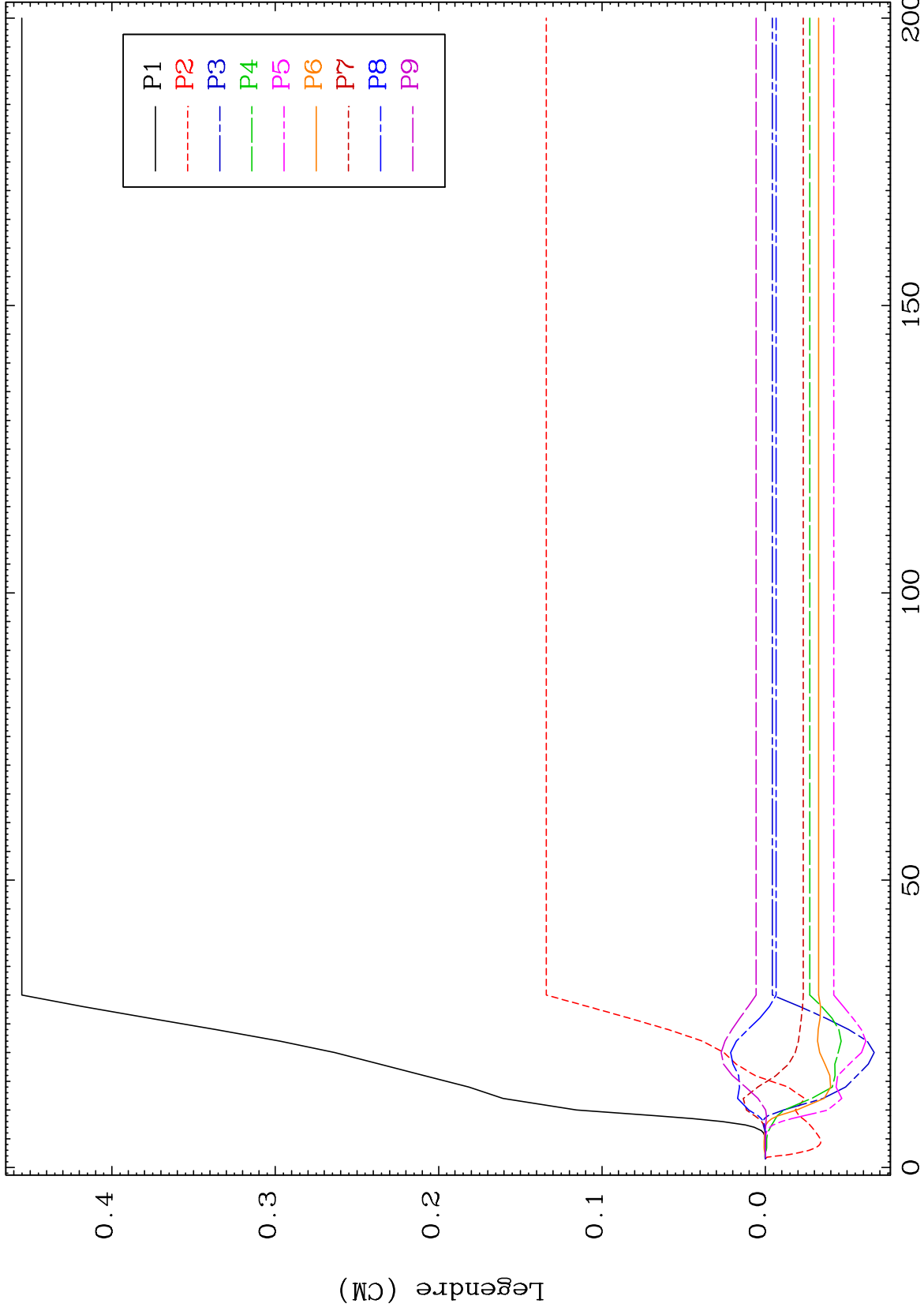
34-Se-83



MAT 3452

1.472 MeV (n,n') Level
Legendre Coefficients

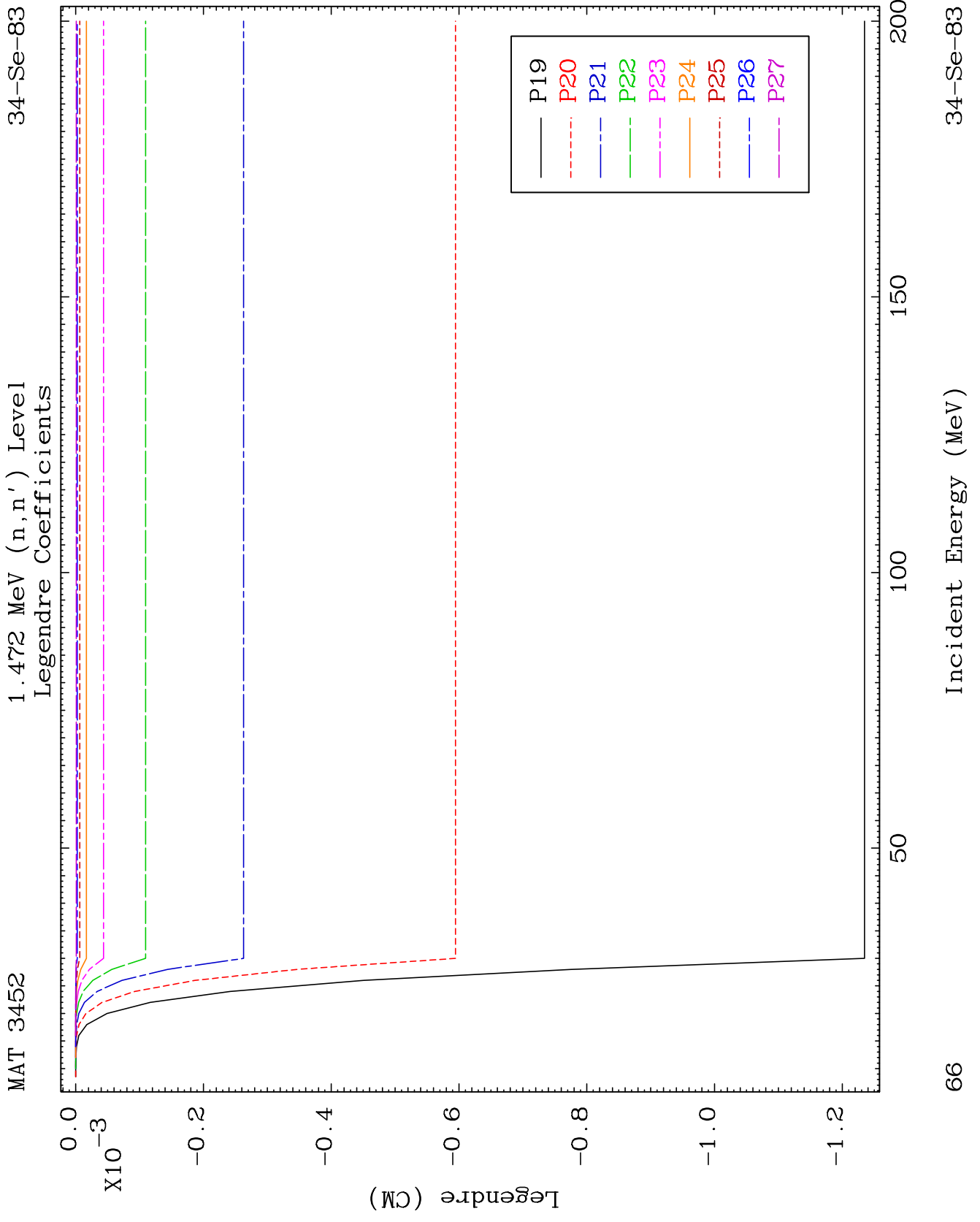
34-Se-83

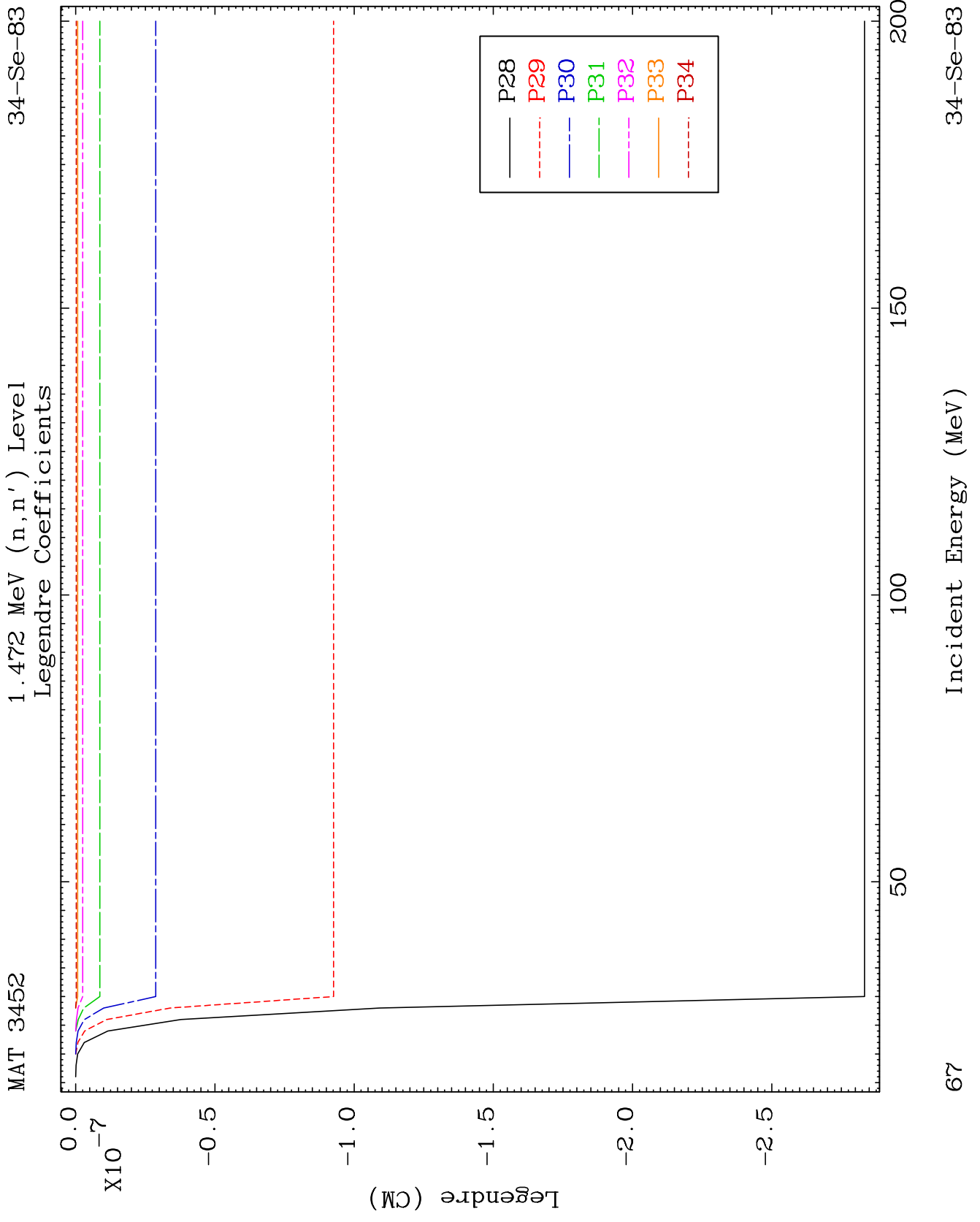


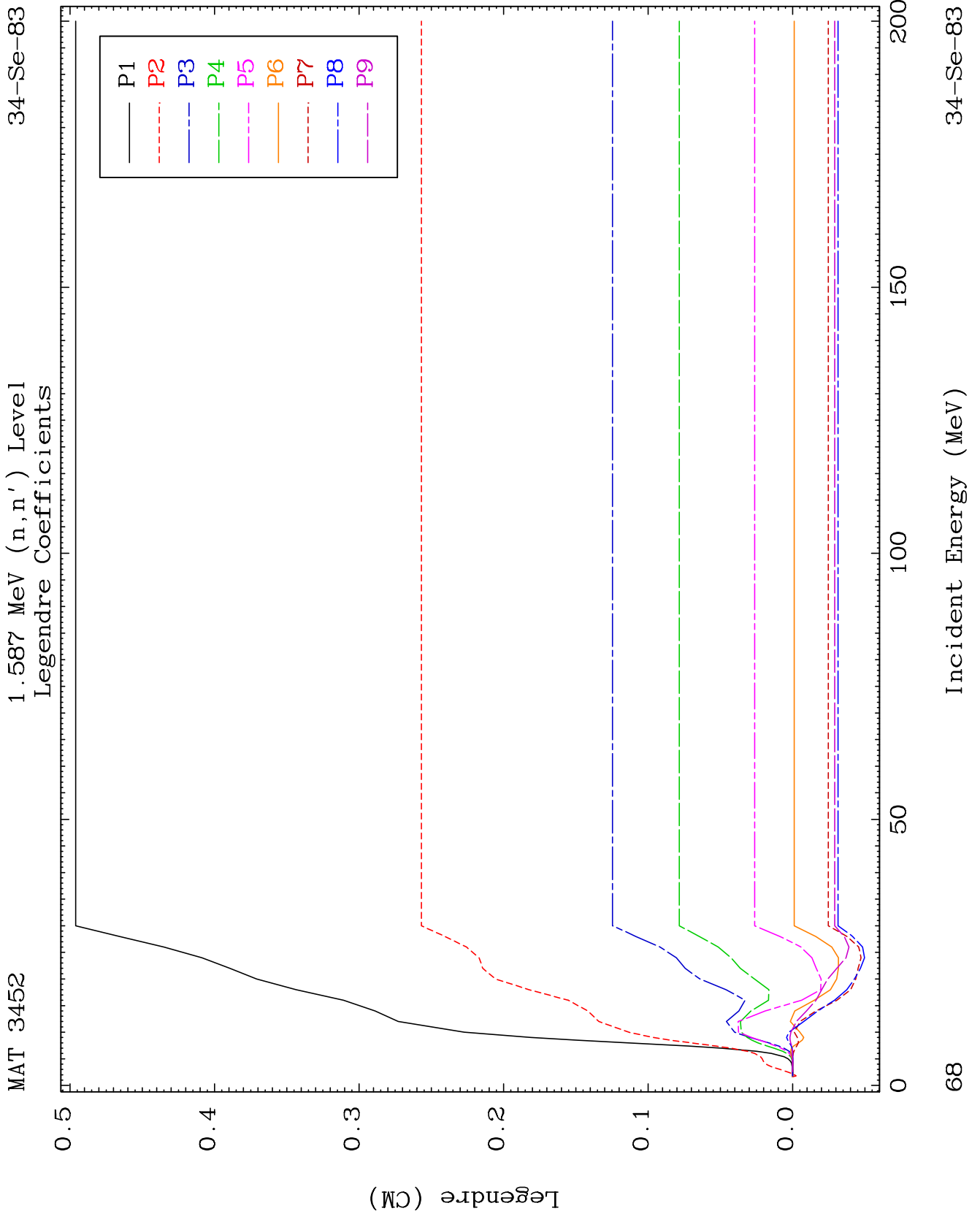
34-Se-83

Incident Energy (MeV)

64



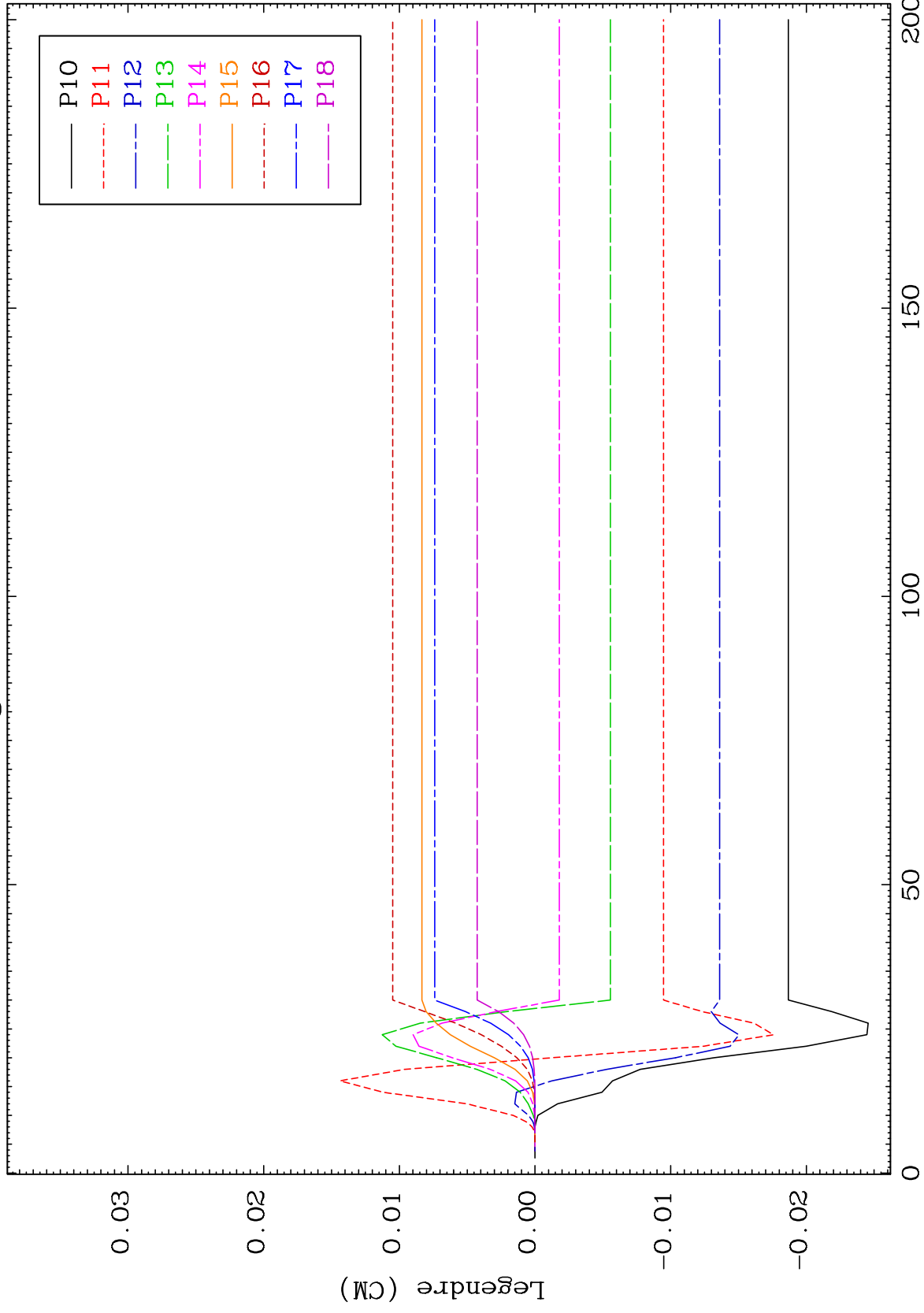




MAT 3452

1.587 MeV (n,n') Level
Legendre Coefficients

³⁴Se-83



69

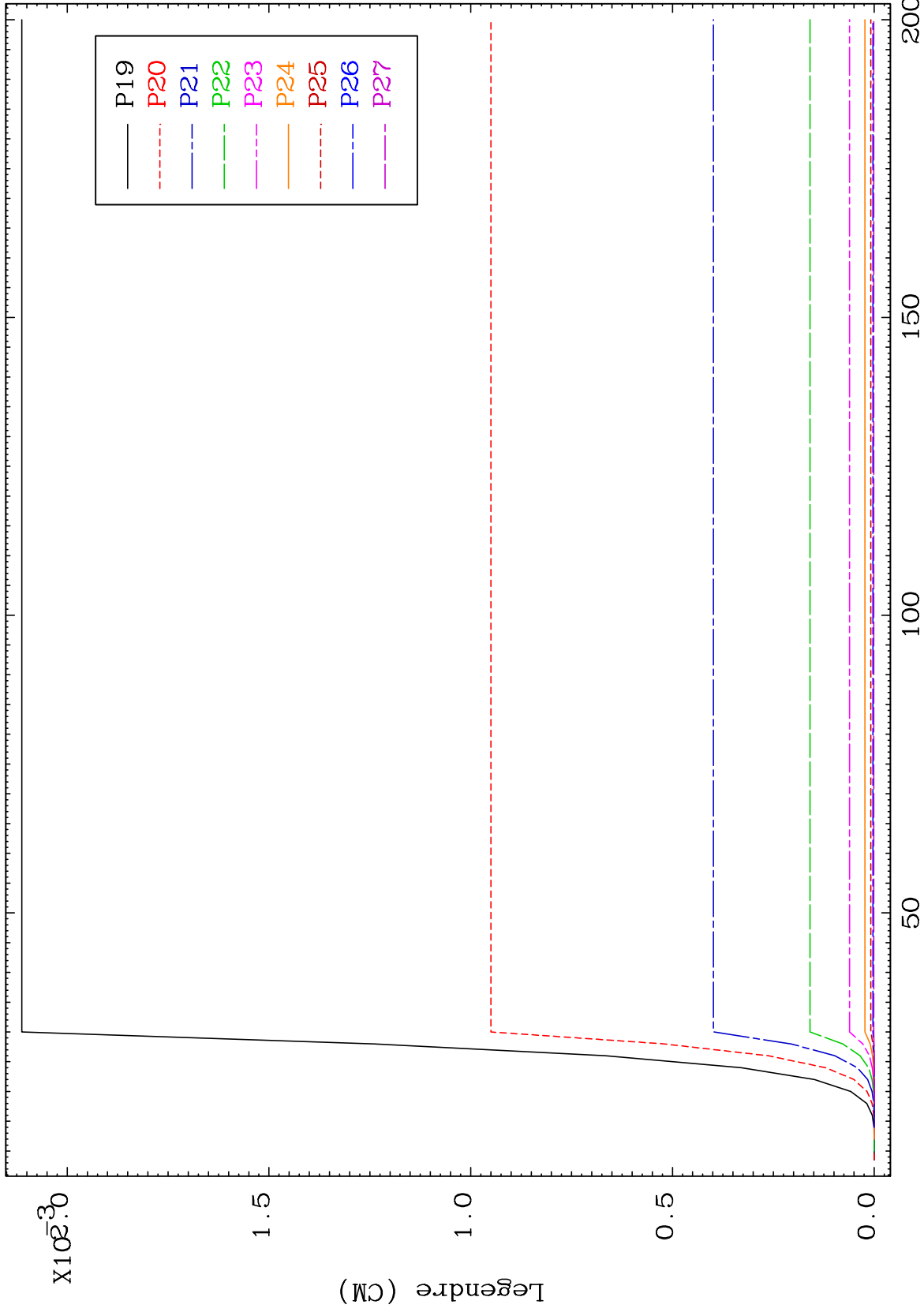
Incident Energy (MeV)

³⁴Se-83

MAT 3452

1.587 MeV (n,n') Level
Legendre Coefficients

34-Se-83



70

Incident Energy (MeV)

50

100

150

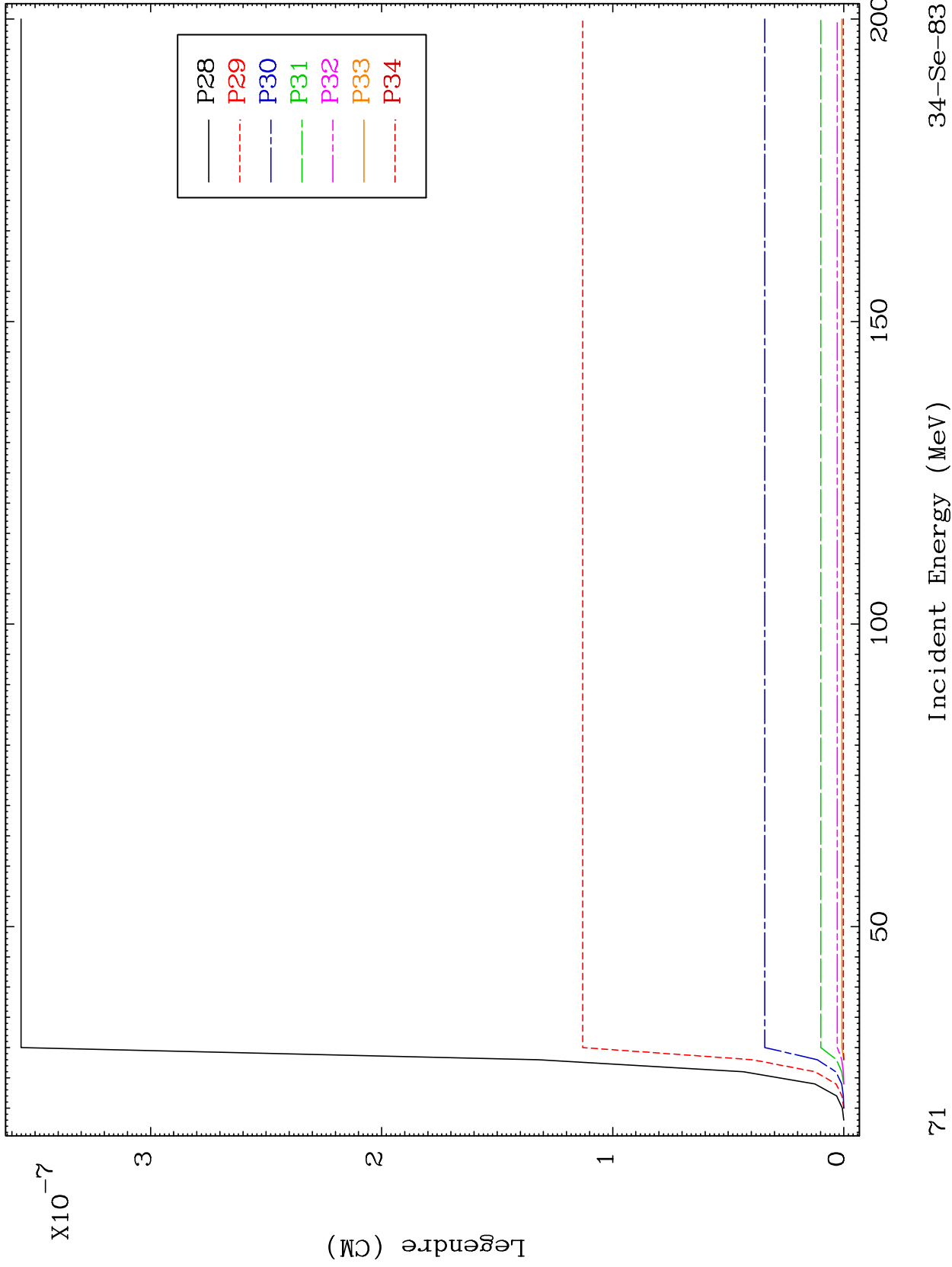
200

34-Se-83

MAT 3452

1.587 MeV (n,n') Level
Legendre Coefficients

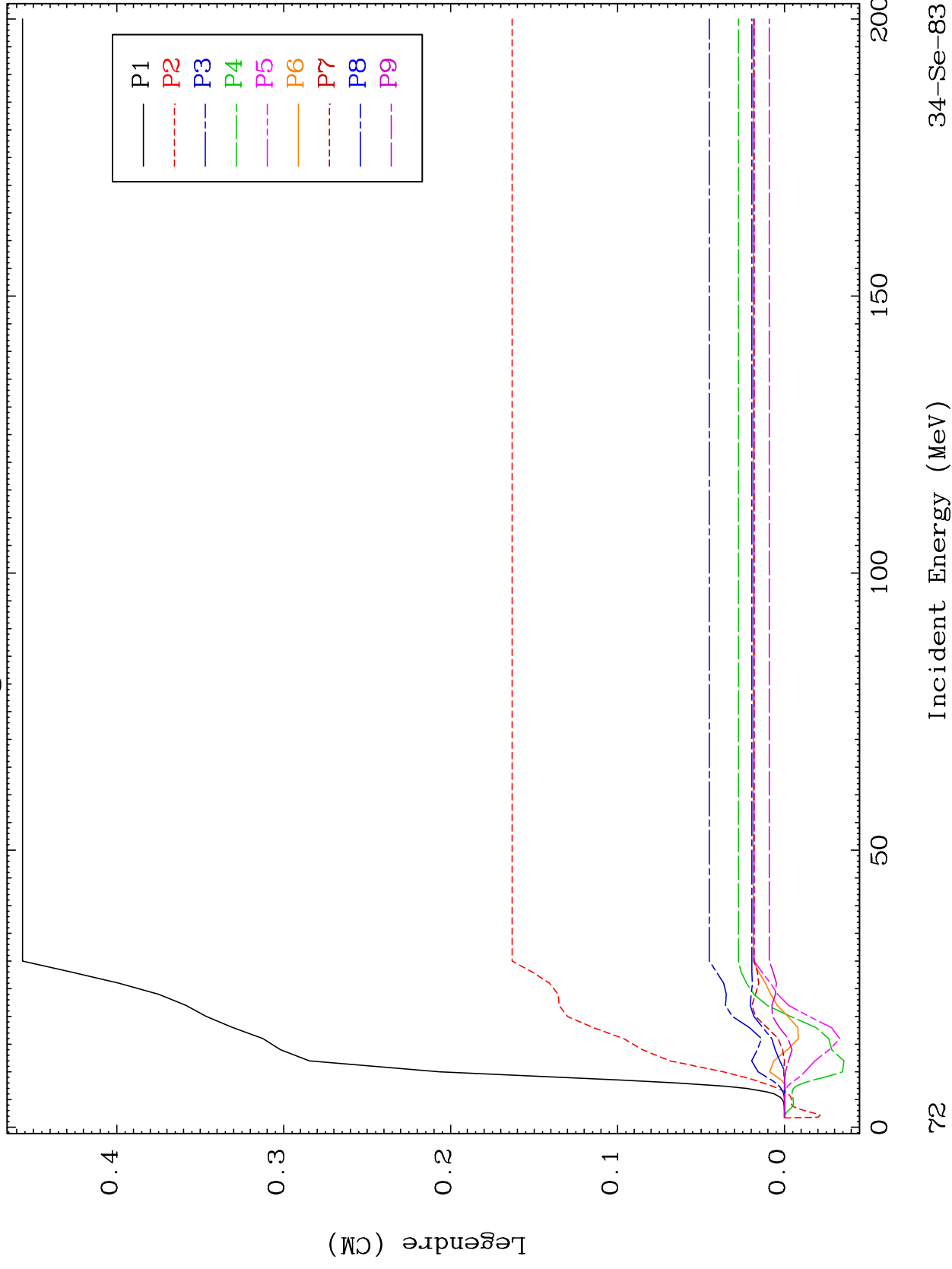
34-Se-83



MAT 3452

1.665 MeV (n,n') Level
Legendre Coefficients

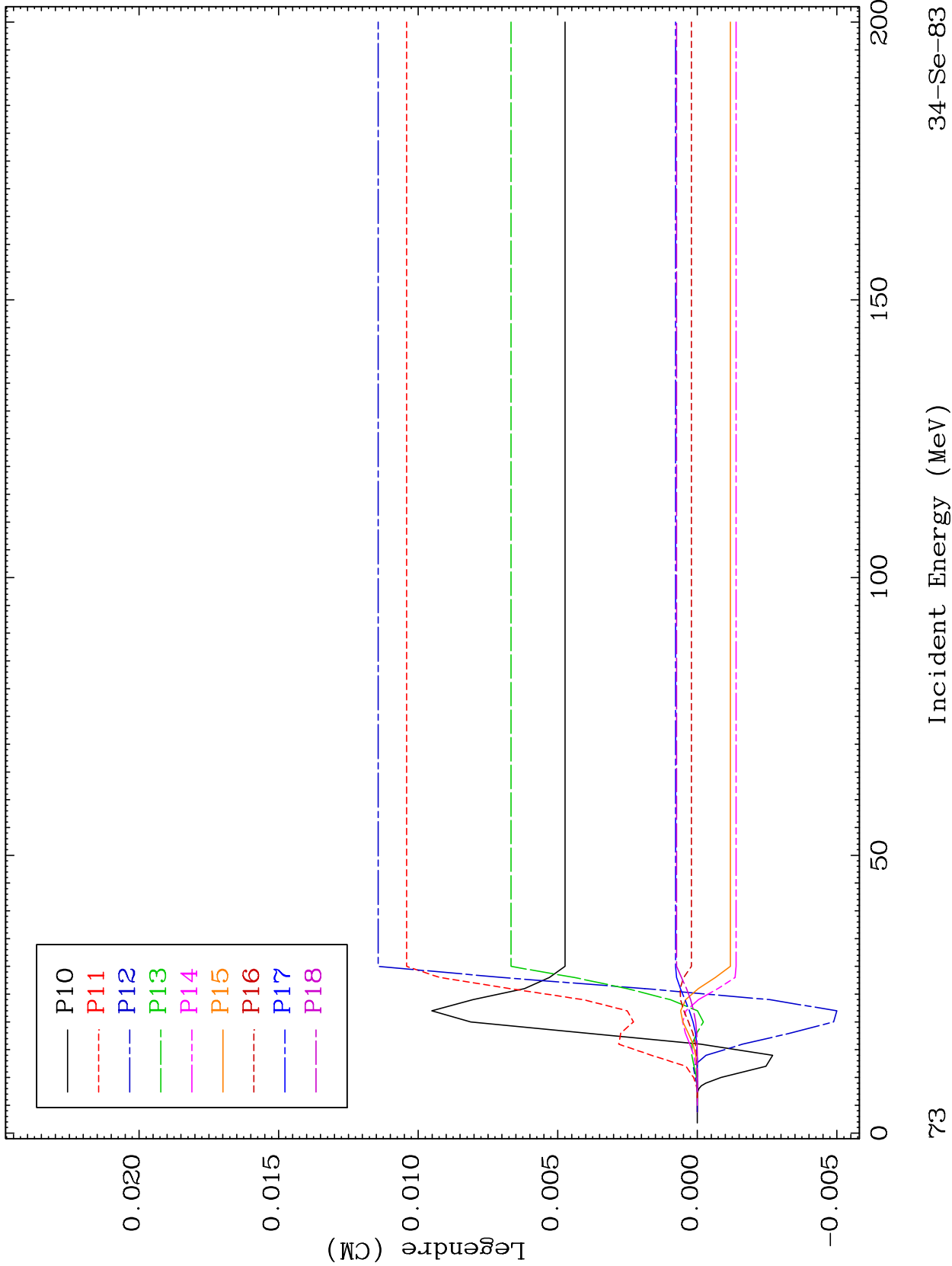
34-Se-83

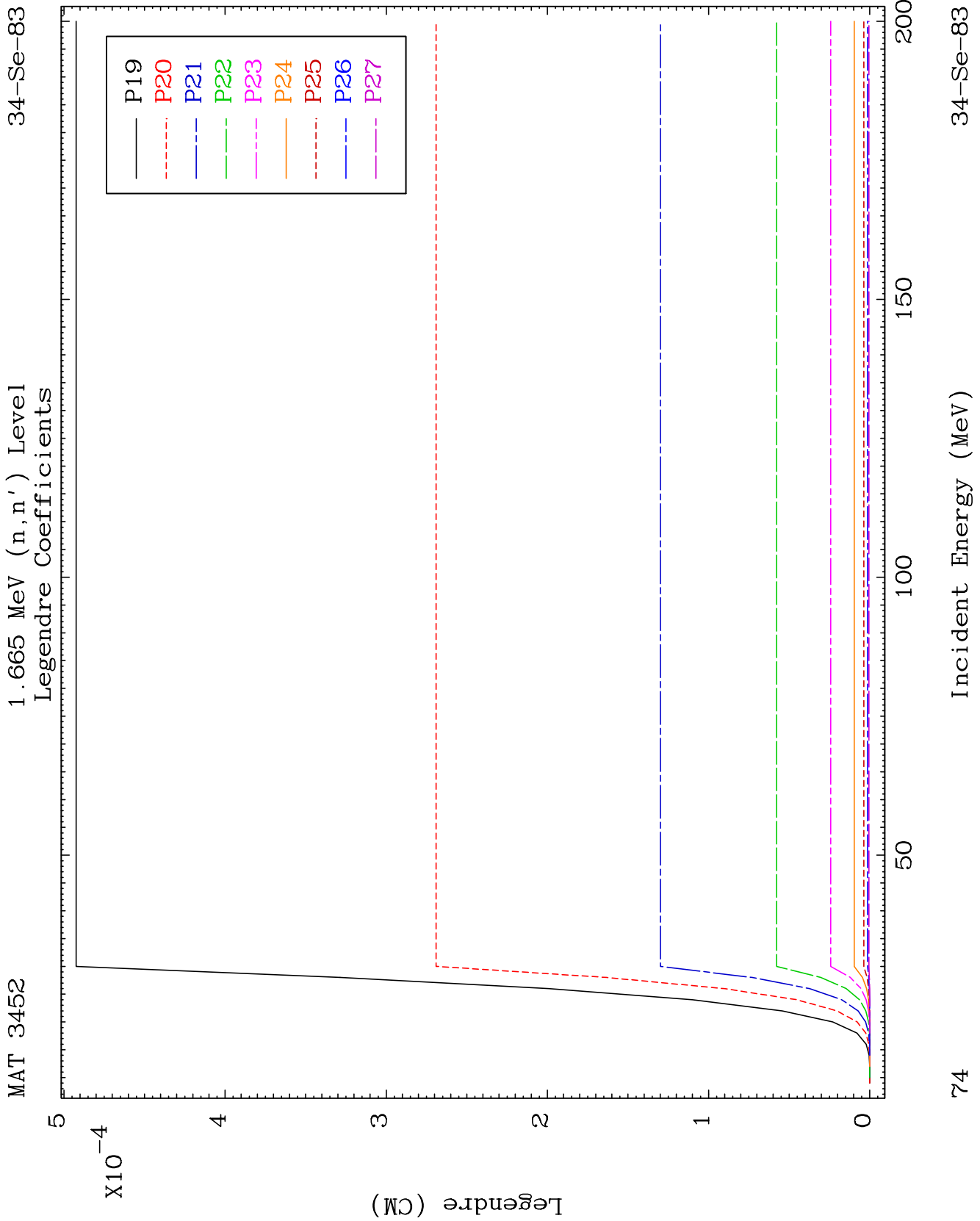


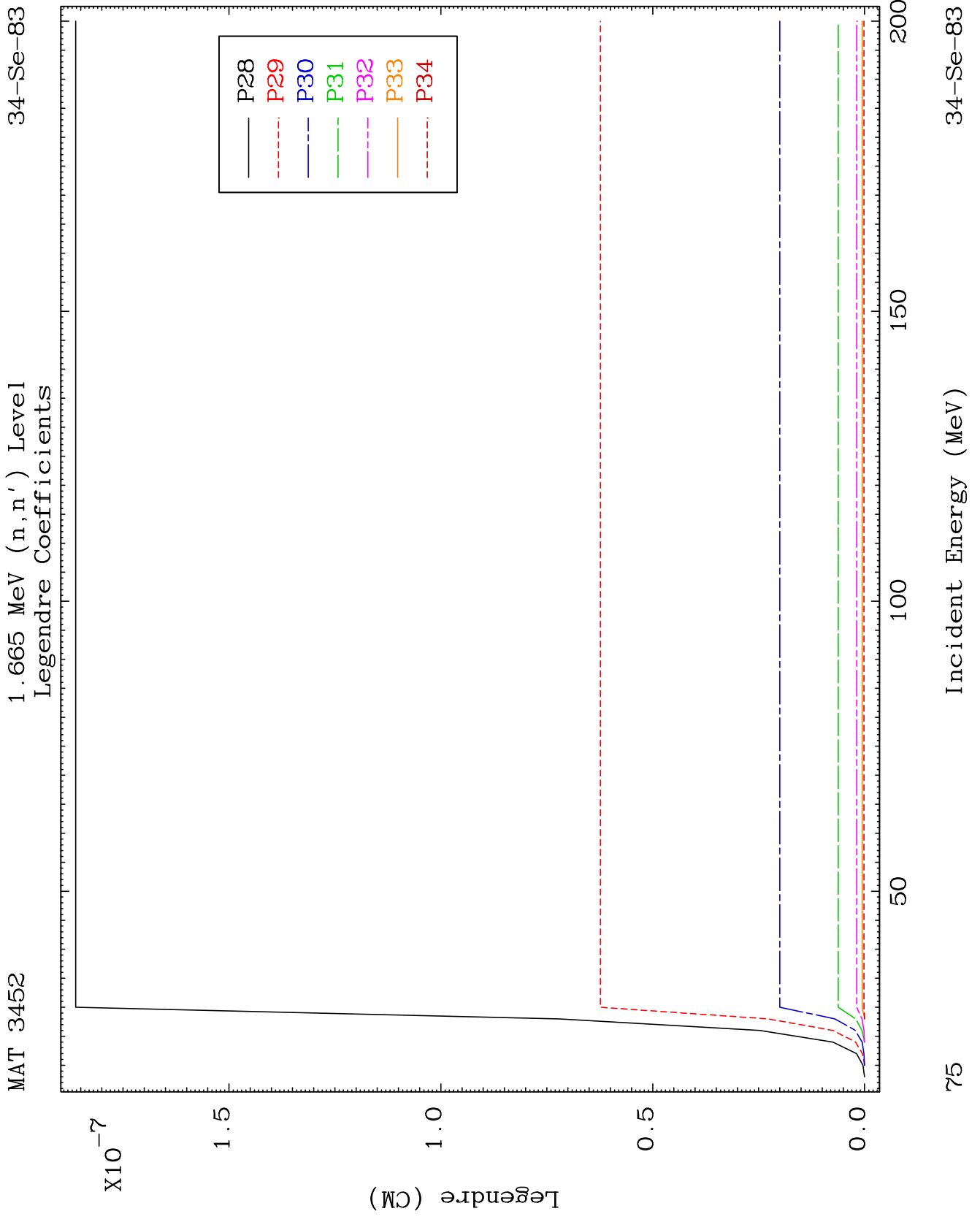
34-Se-83

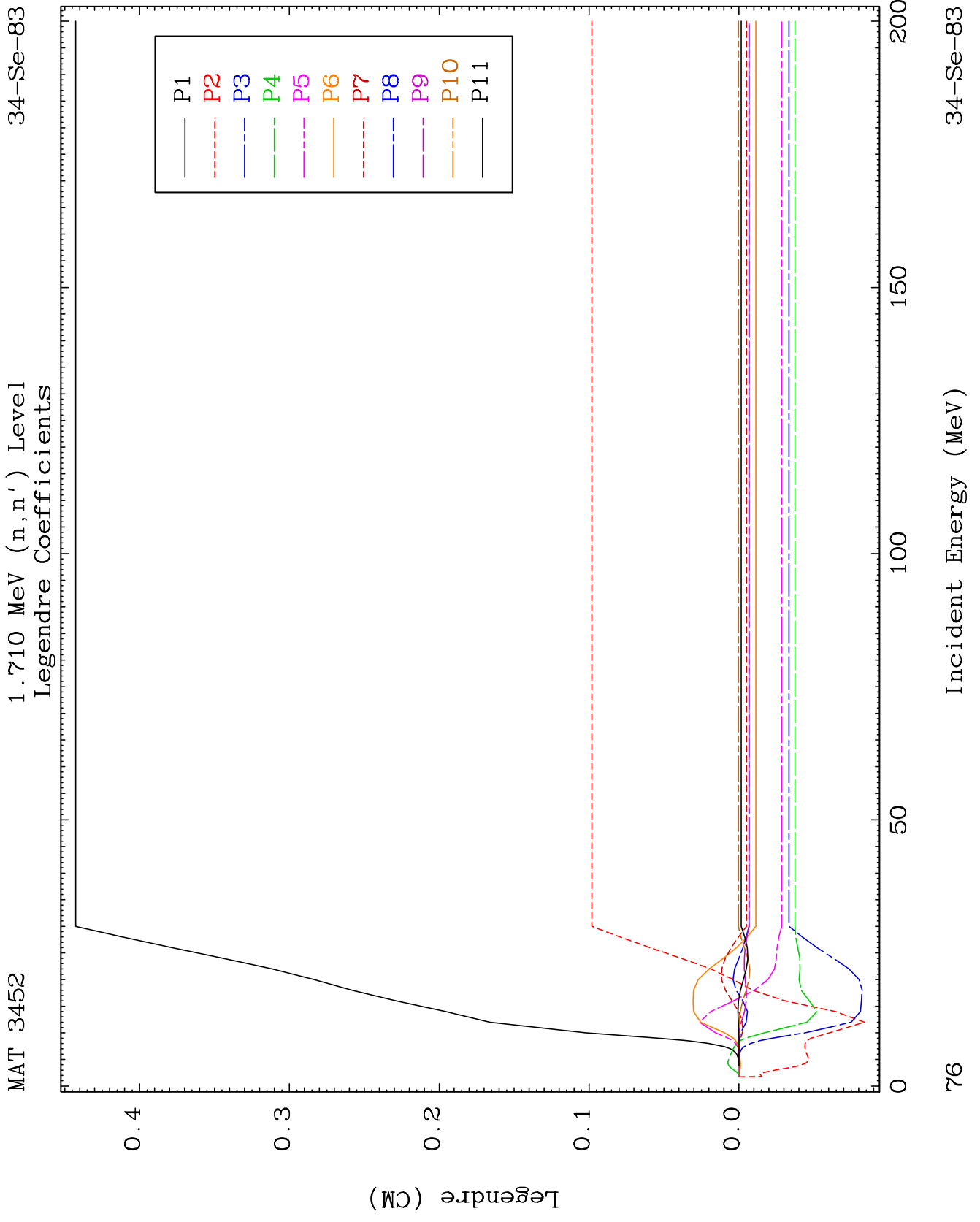
Incident Energy (MeV)

72





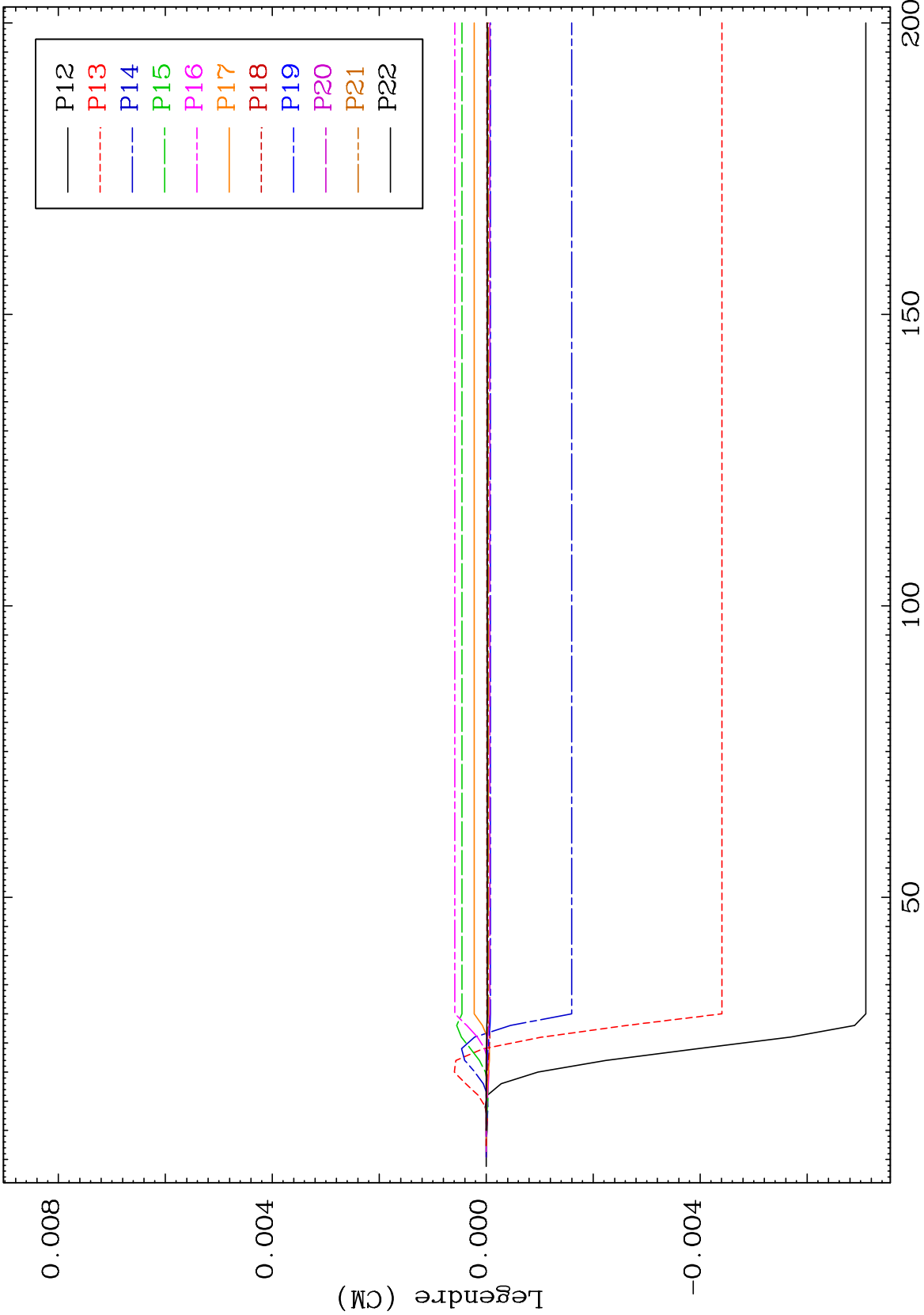




MAT 3452

1.710 MeV (n,n') Level
Legendre Coefficients

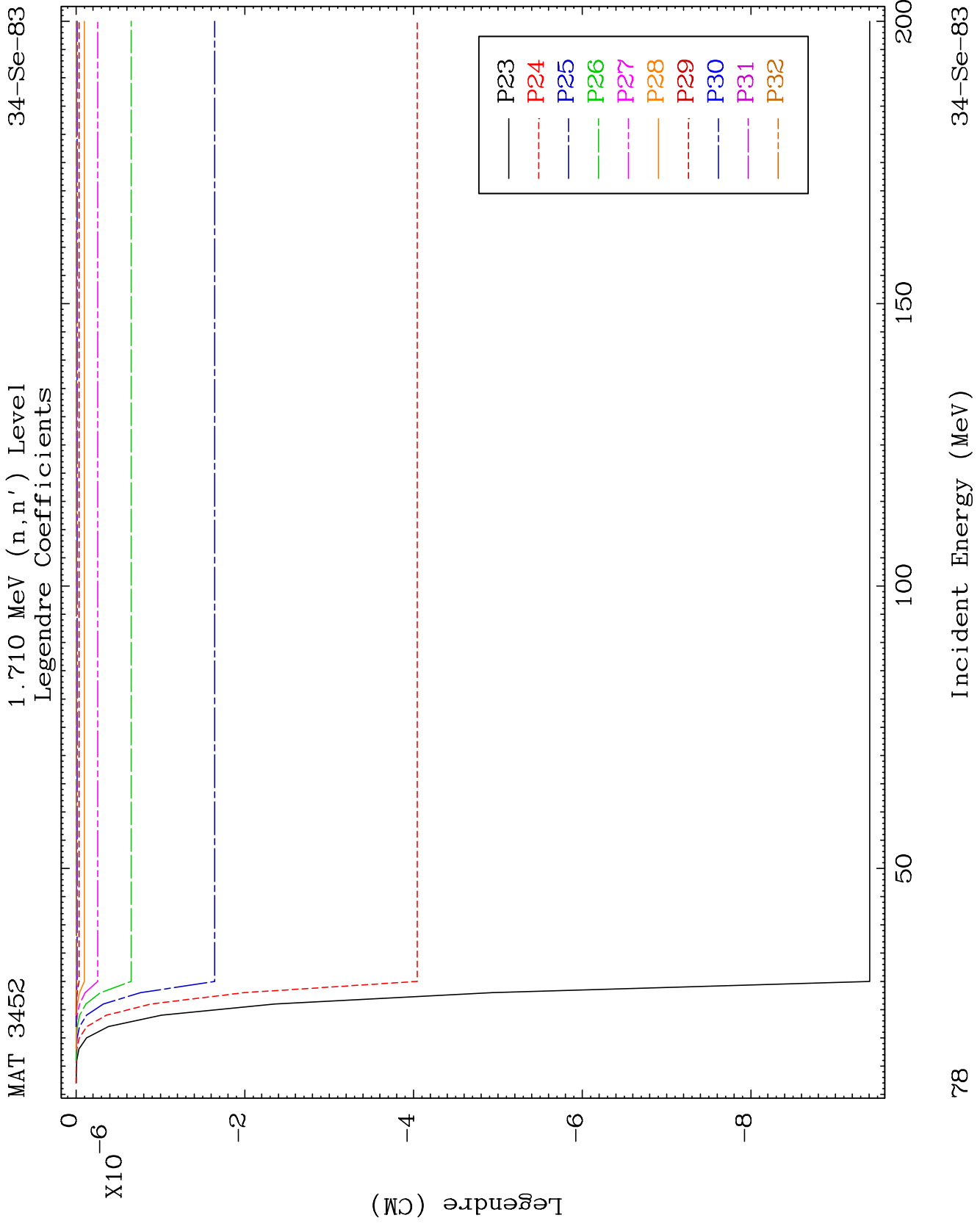
34-Se-83

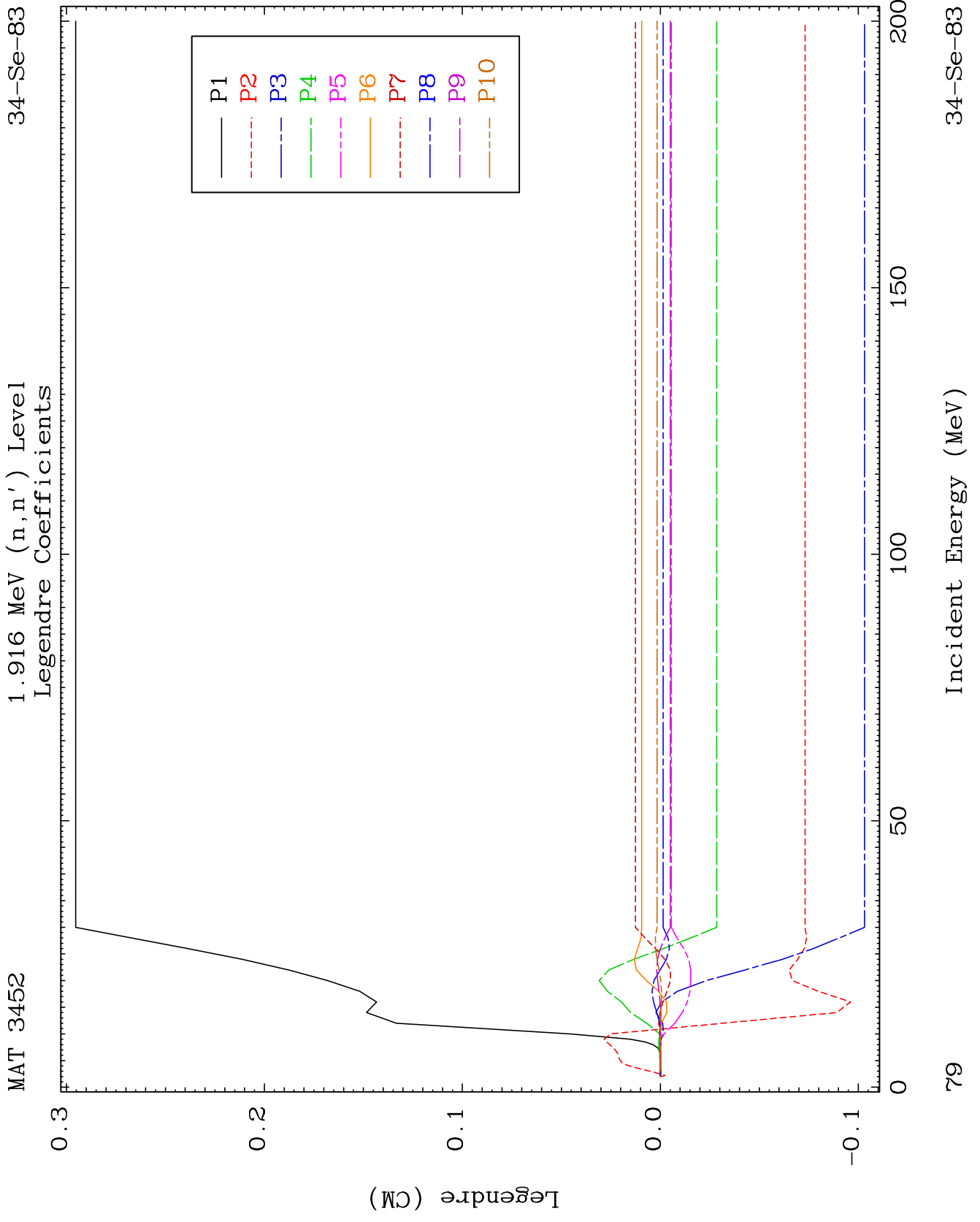


77

Incident Energy (MeV)

34-Se-83

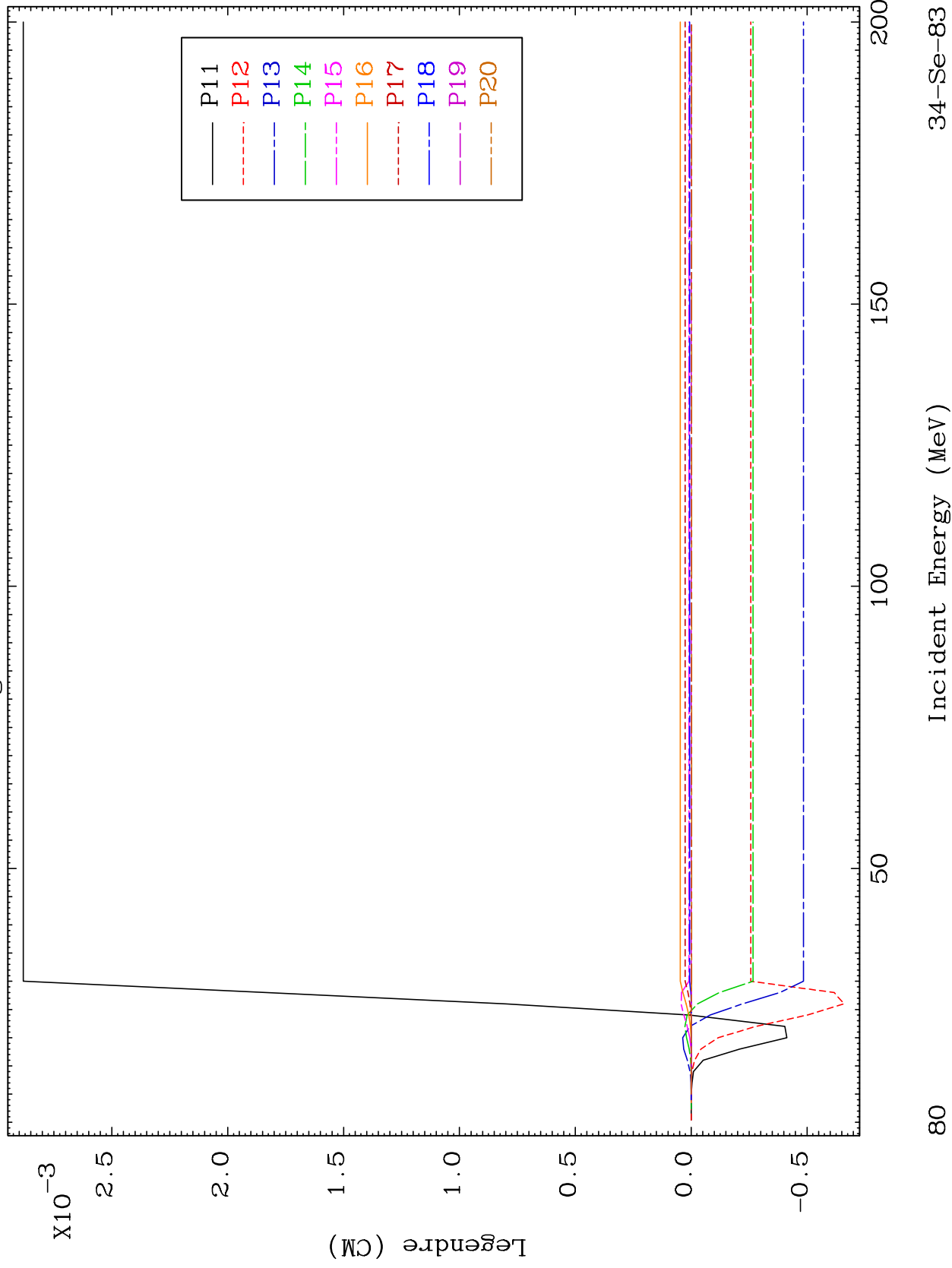




MAT 3452

1.916 MeV (n,n') Level
Legendre Coefficients

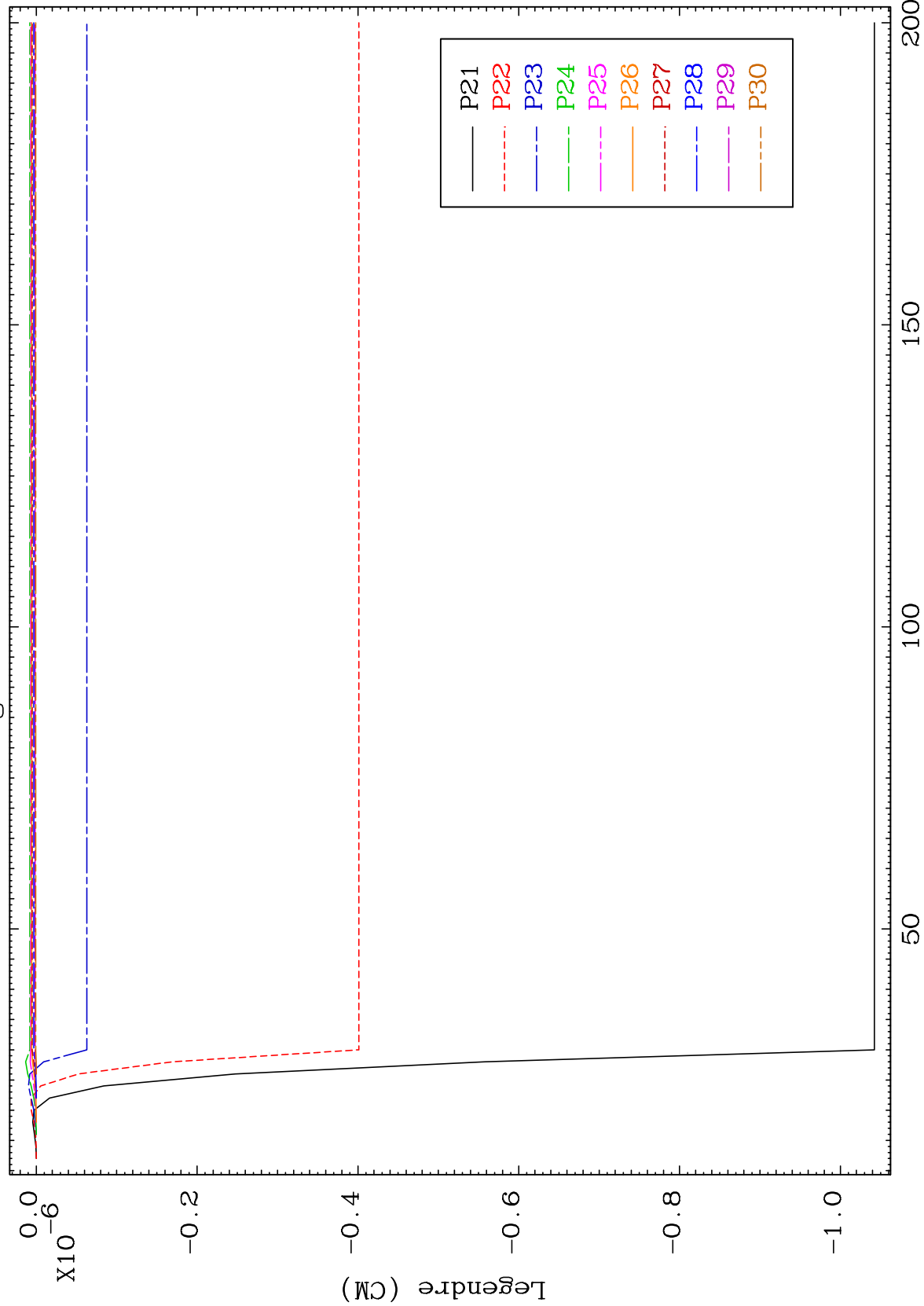
34-Se-83



80

Incident Energy (MeV)

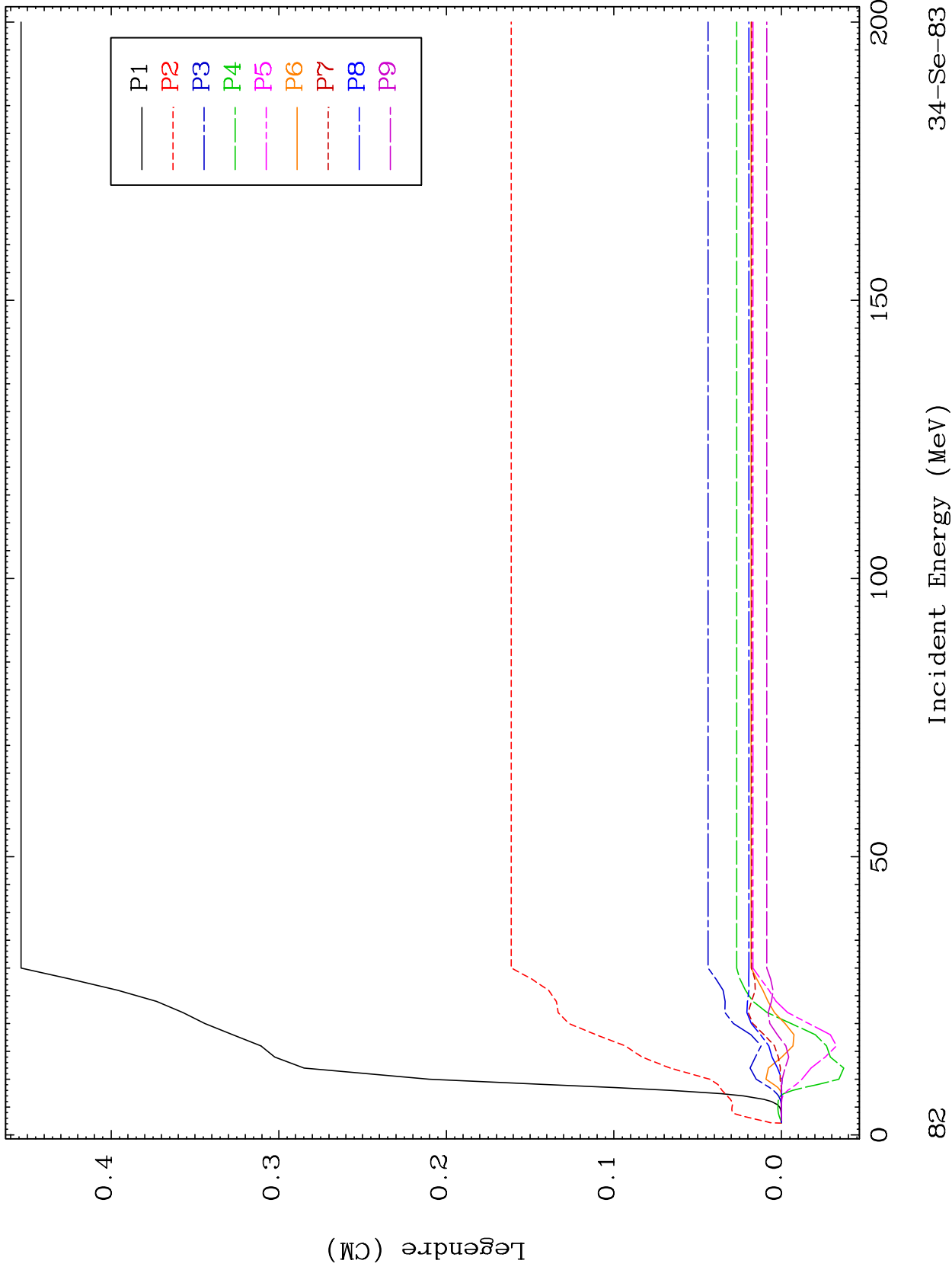
34-Se-83



MAT 3452

2.077 MeV (n,n') Level
Legendre Coefficients

34-Se-83



82

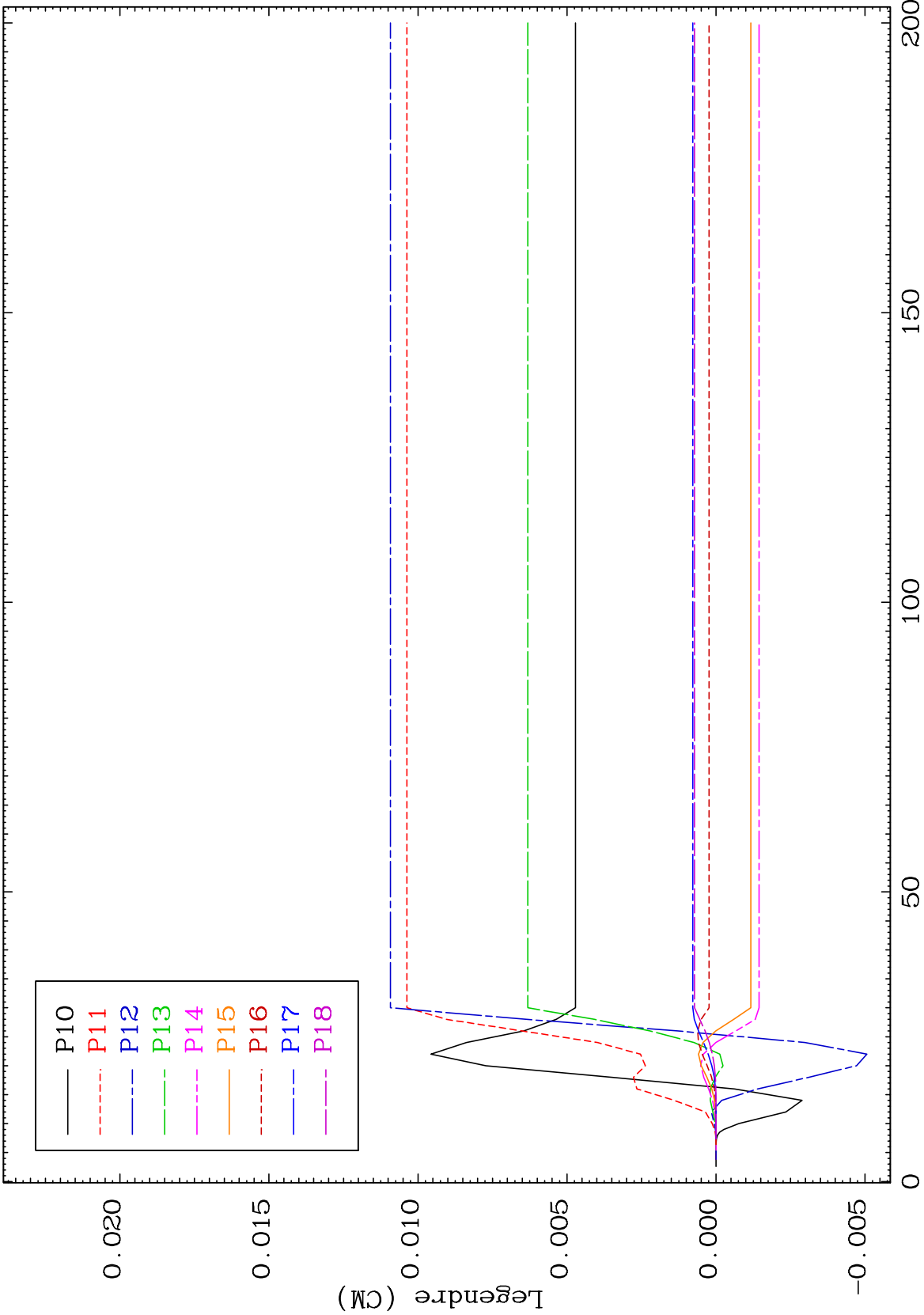
Incident Energy (MeV)

34-Se-83

MAT 3452

2.077 MeV (n,n') Level
Legendre Coefficients

34-Se-83



83

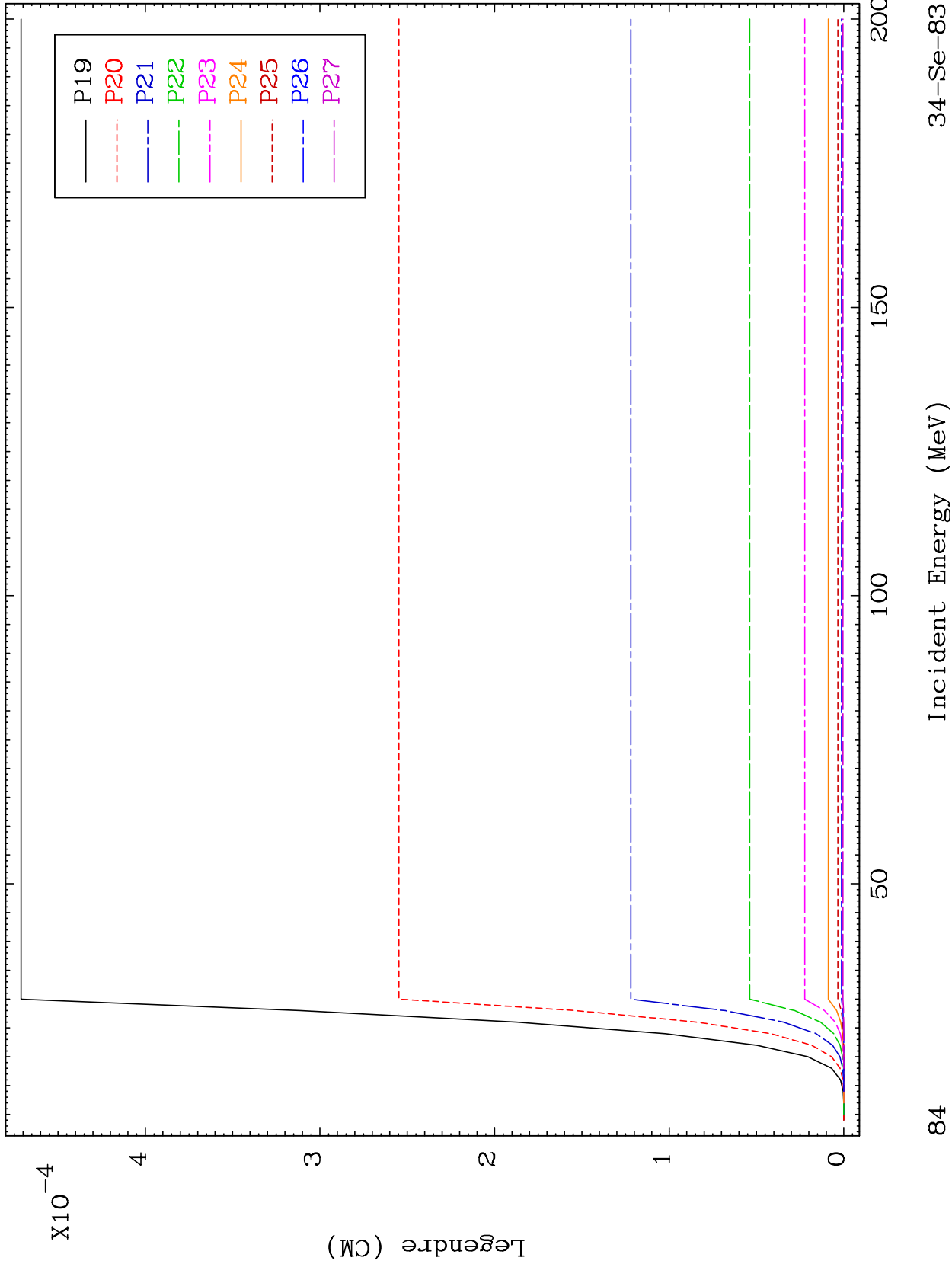
Incident Energy (MeV)

34-Se-83

MAT 3452

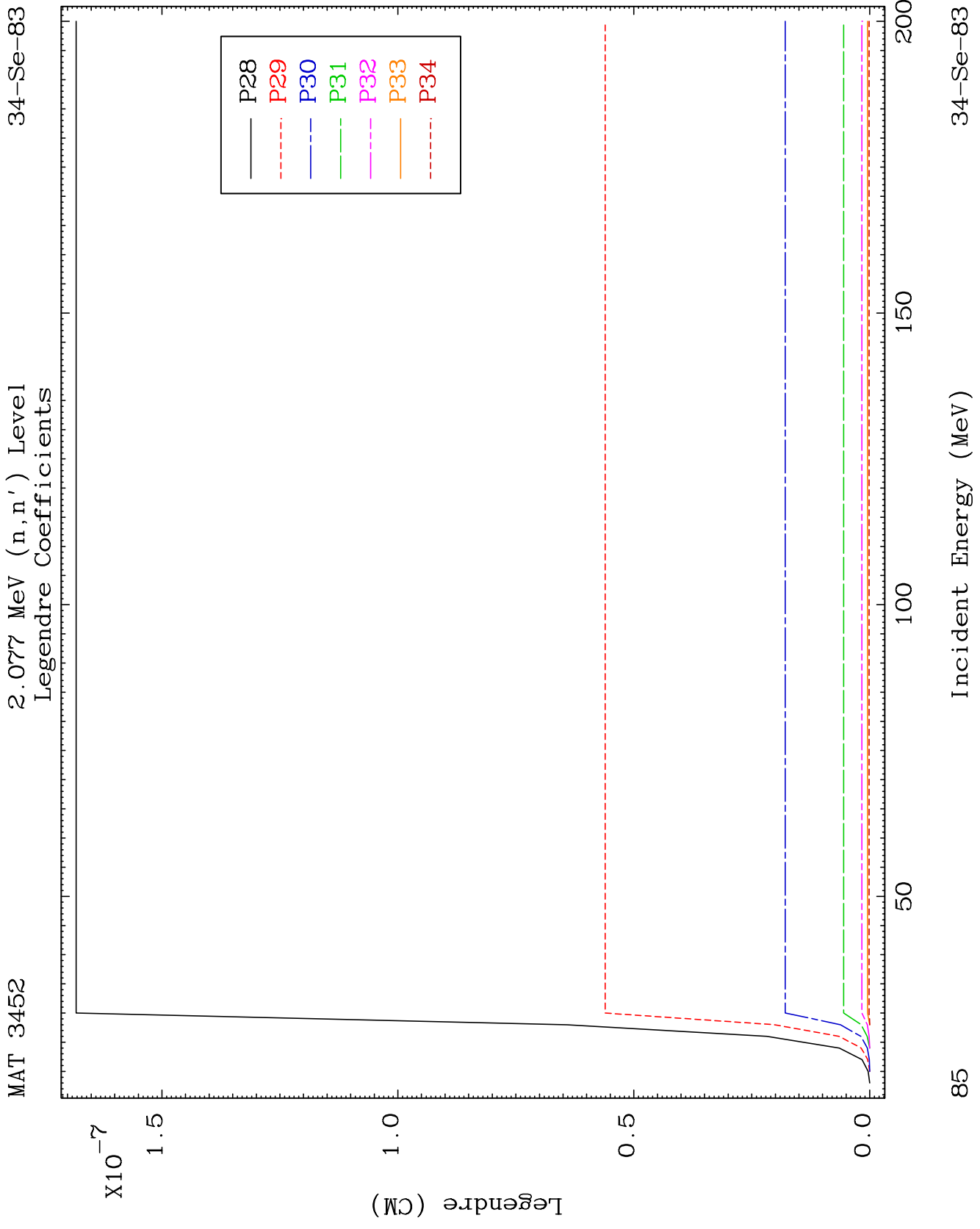
2.077 MeV (n,n') Level
Legendre Coefficients

34-Se-83



84

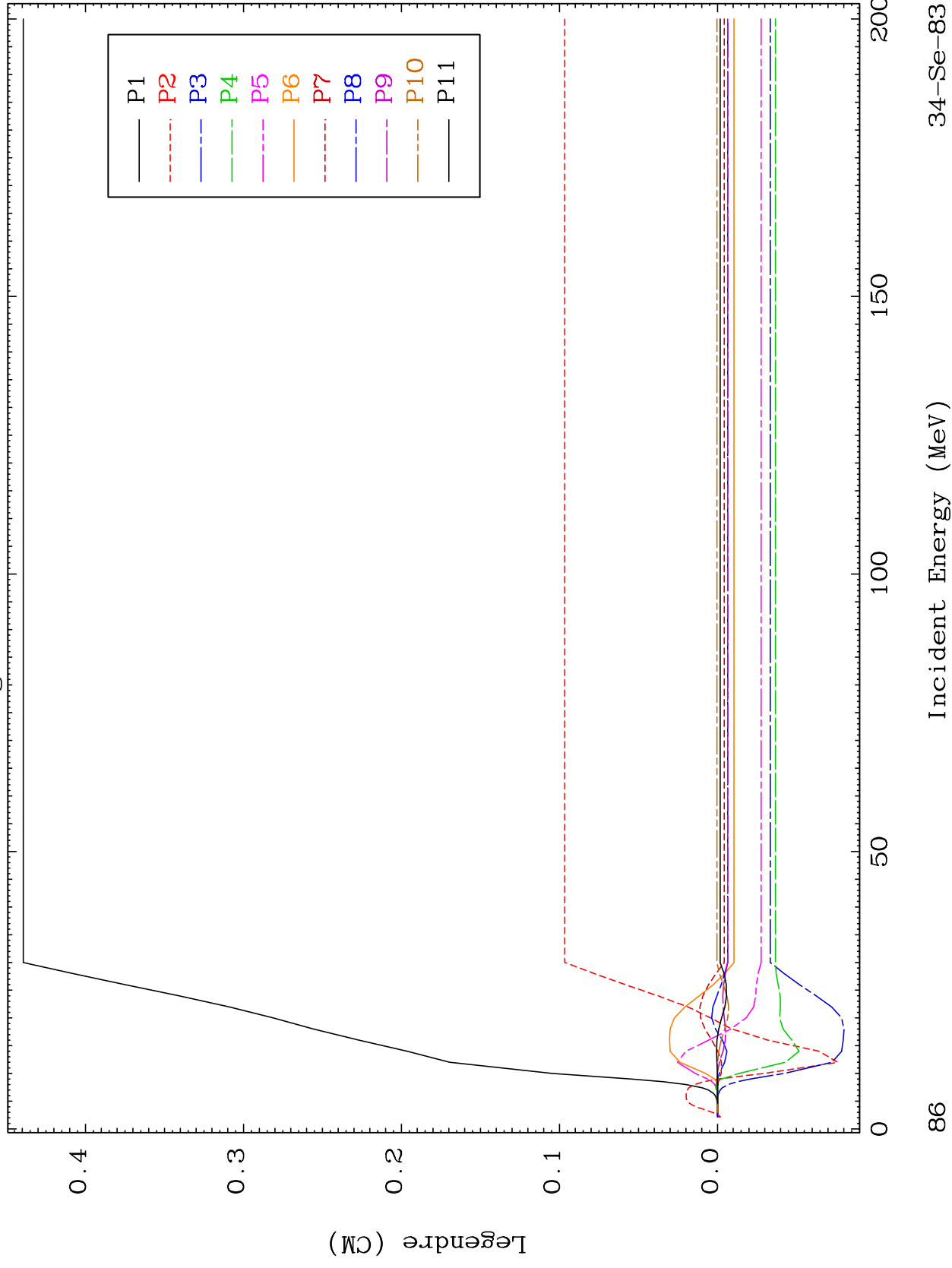
34-Se-83



MAT 3452

2.120 MeV (n,n') Level
Legendre Coefficients

³⁴Se-83



³⁴Se-83

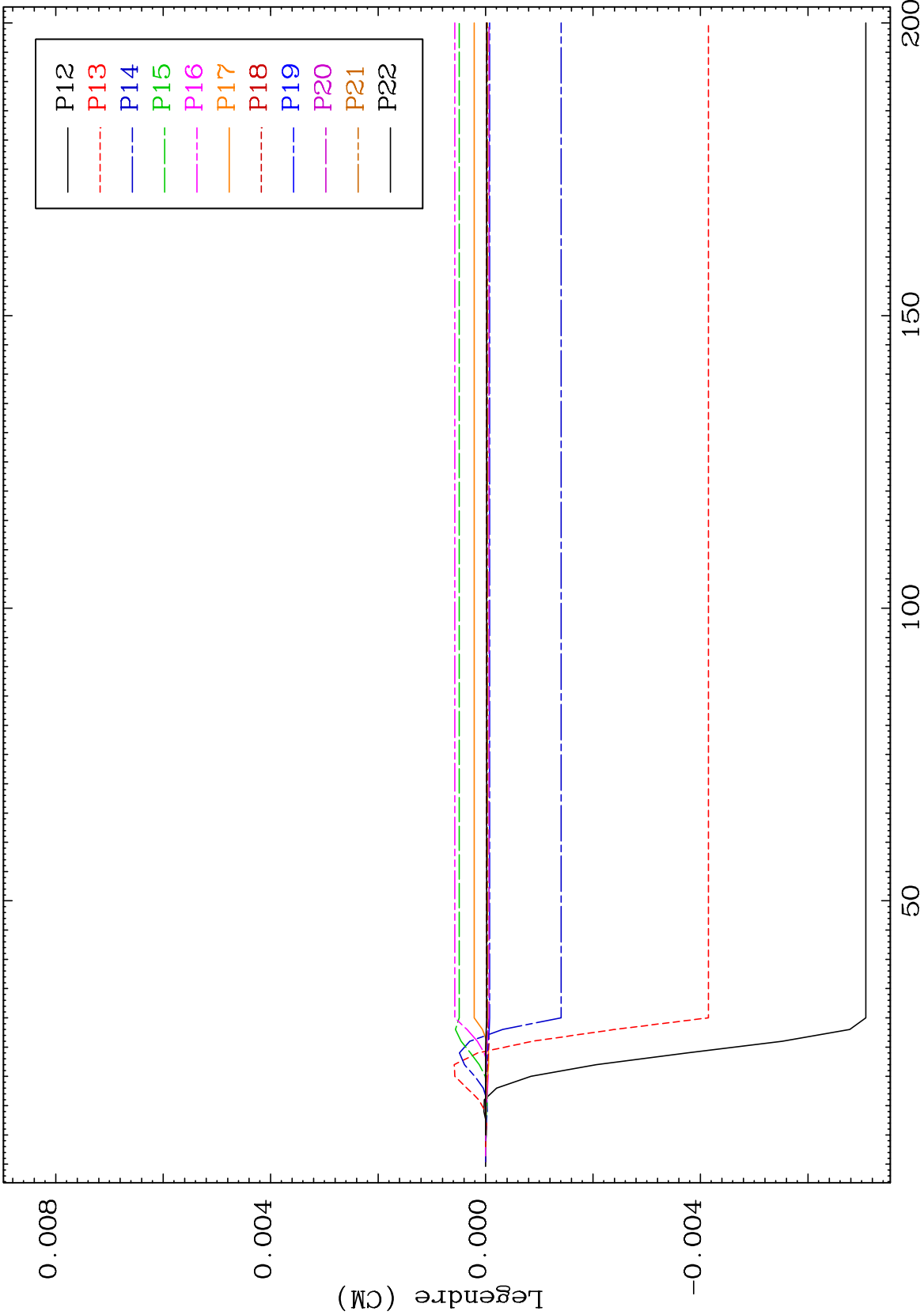
Incident Energy (MeV)

86

MAT 3452

2.120 MeV (n,n') Level
Legendre Coefficients

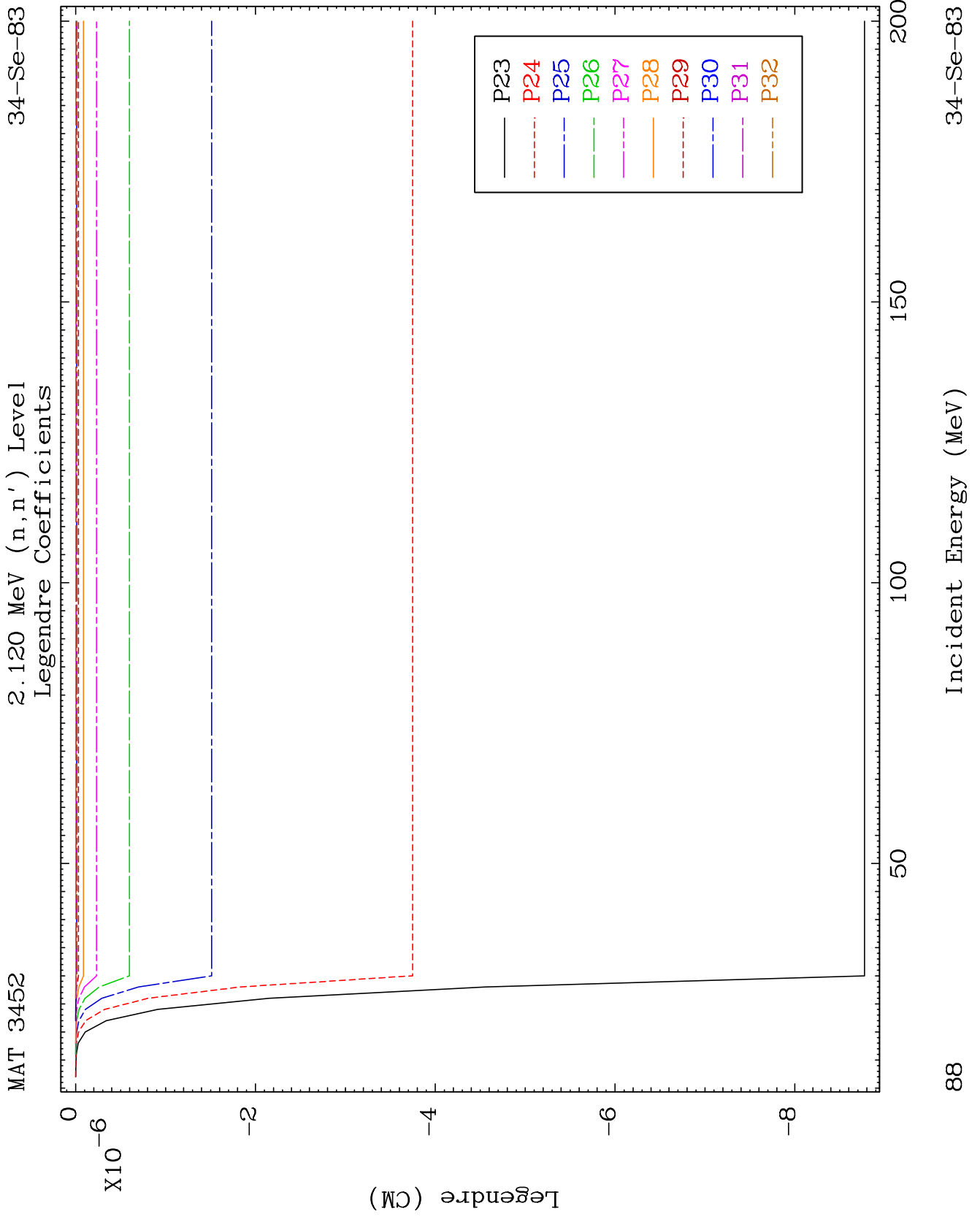
34-Se-83

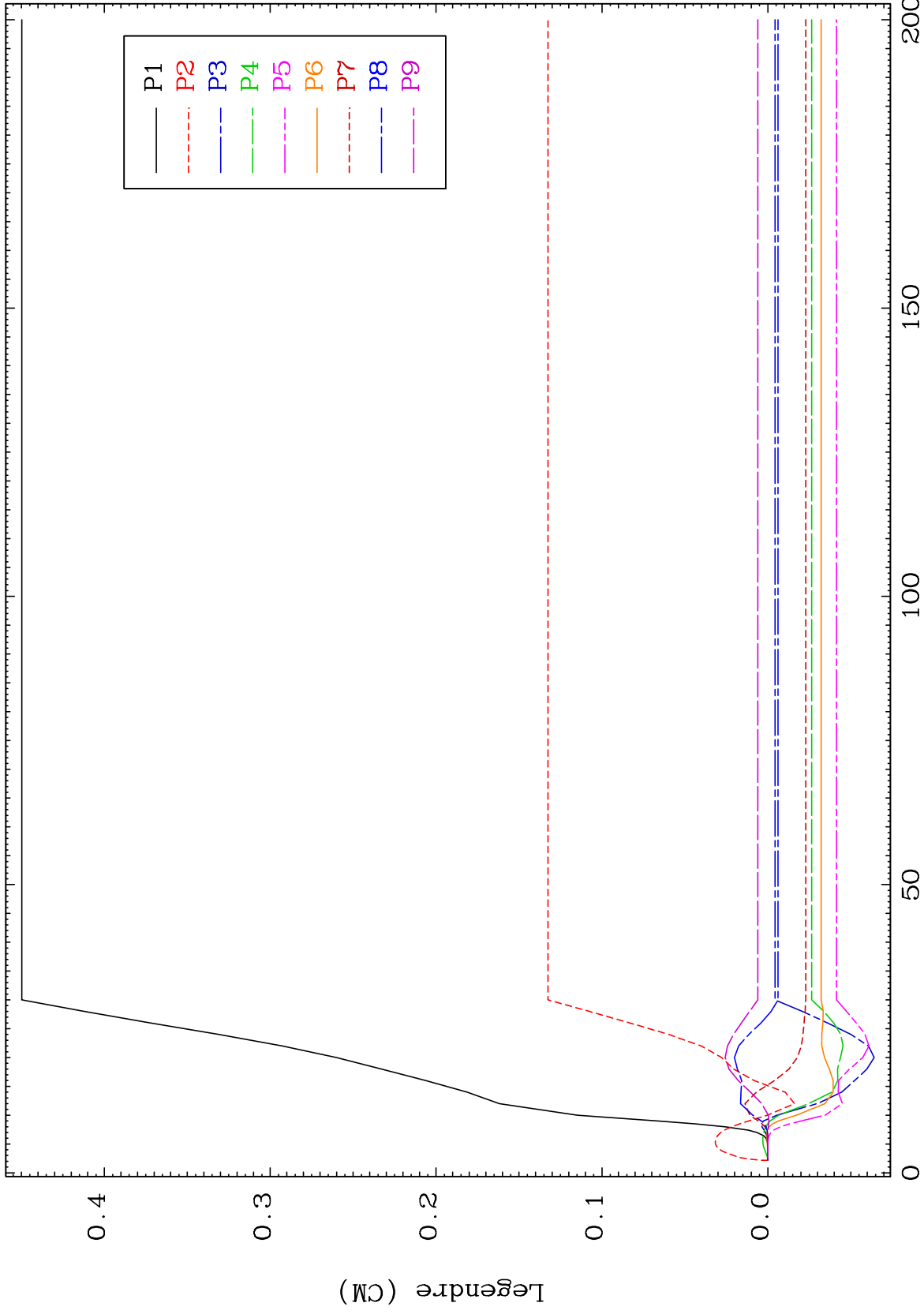


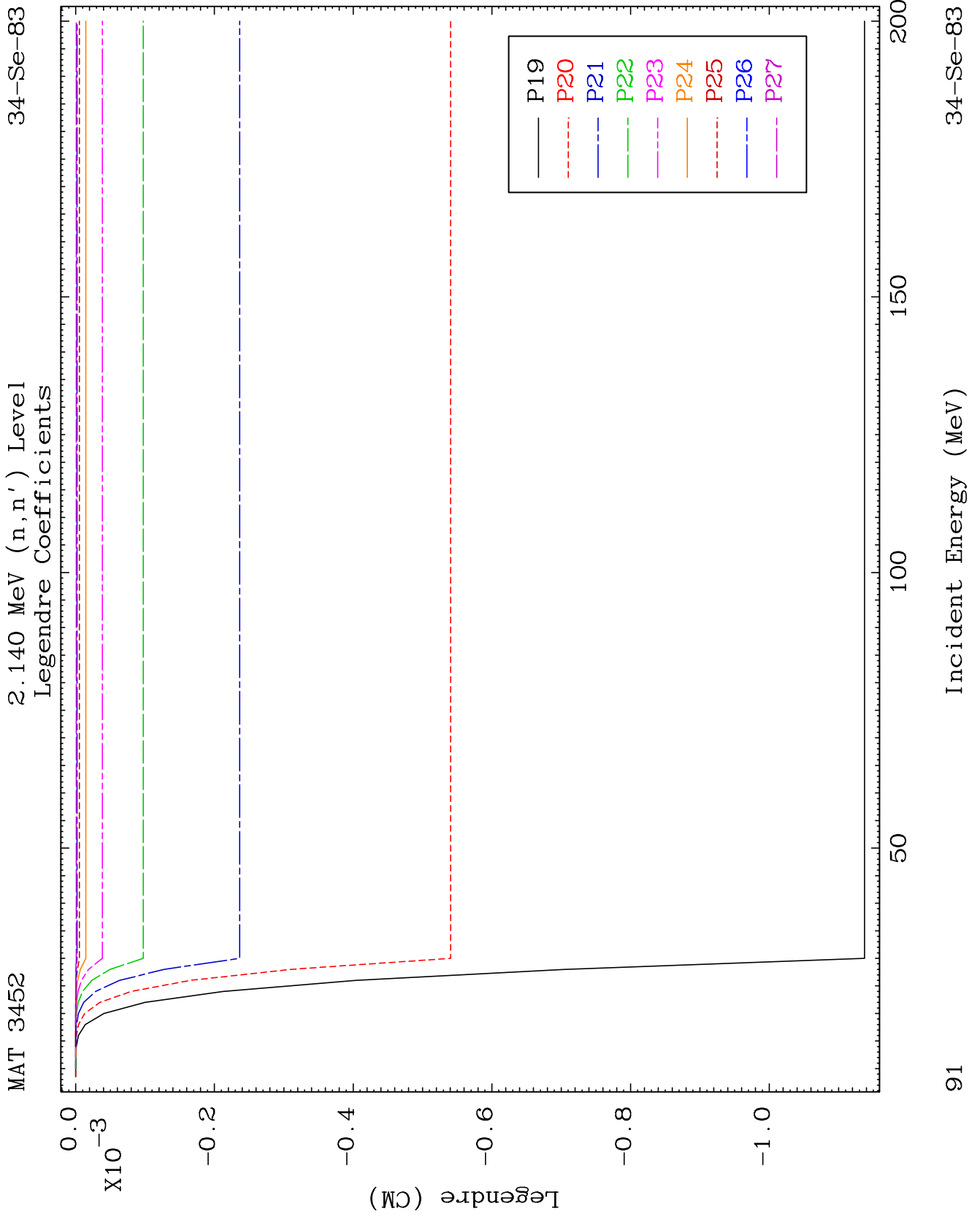
87

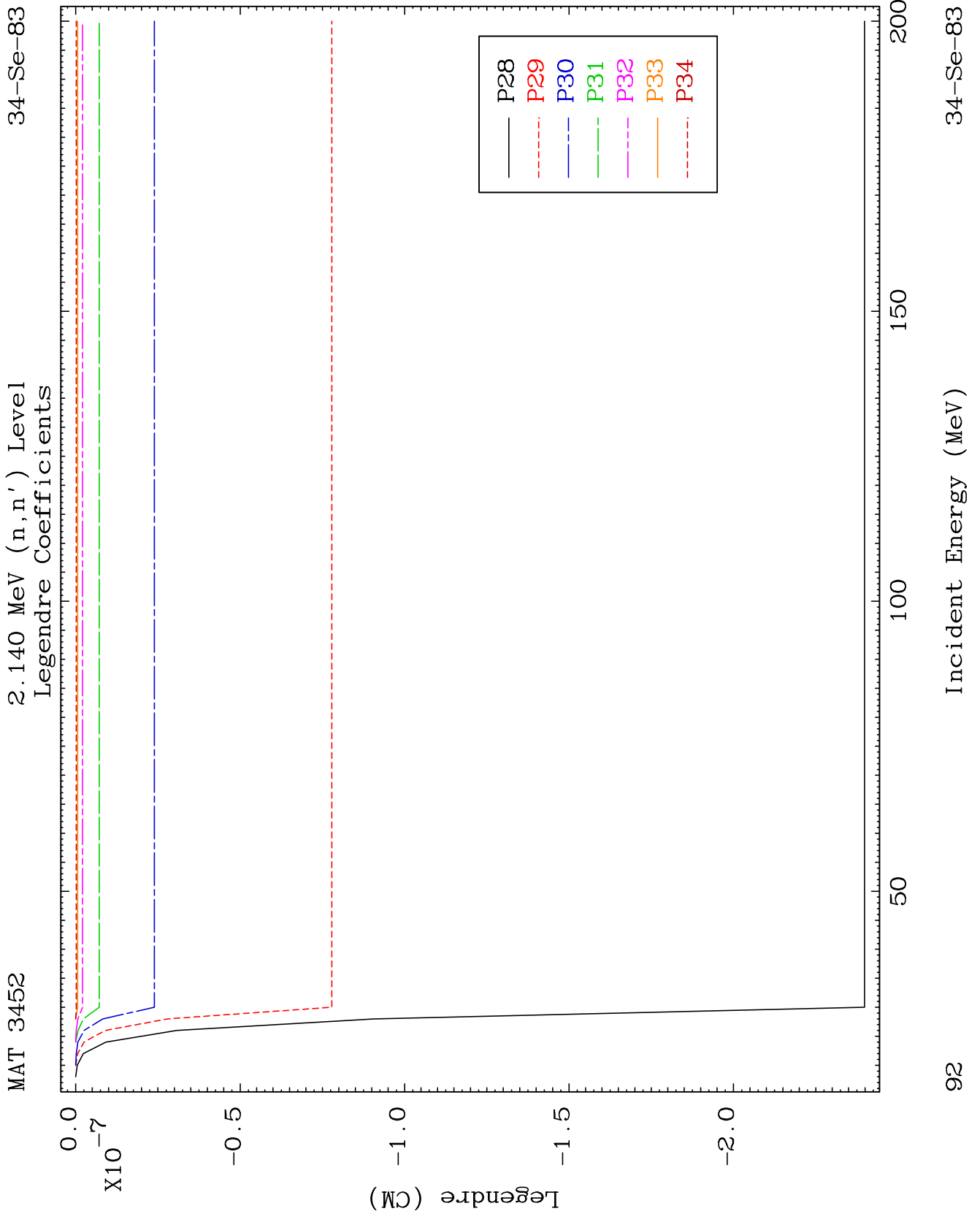
Incident Energy (MeV)

34-Se-83





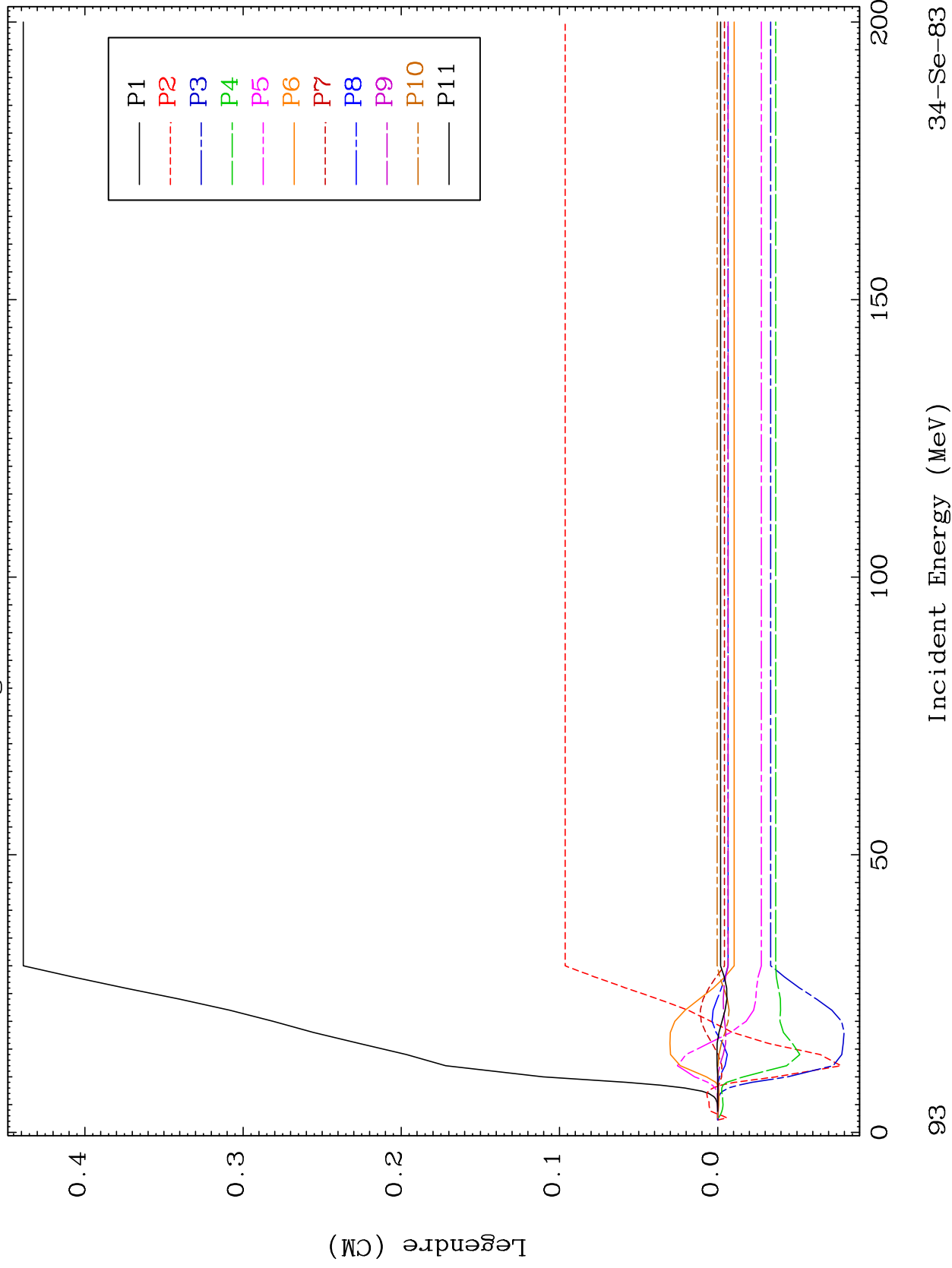




MAT 3452

2.178 MeV (n, n') Level
Legendre Coefficients

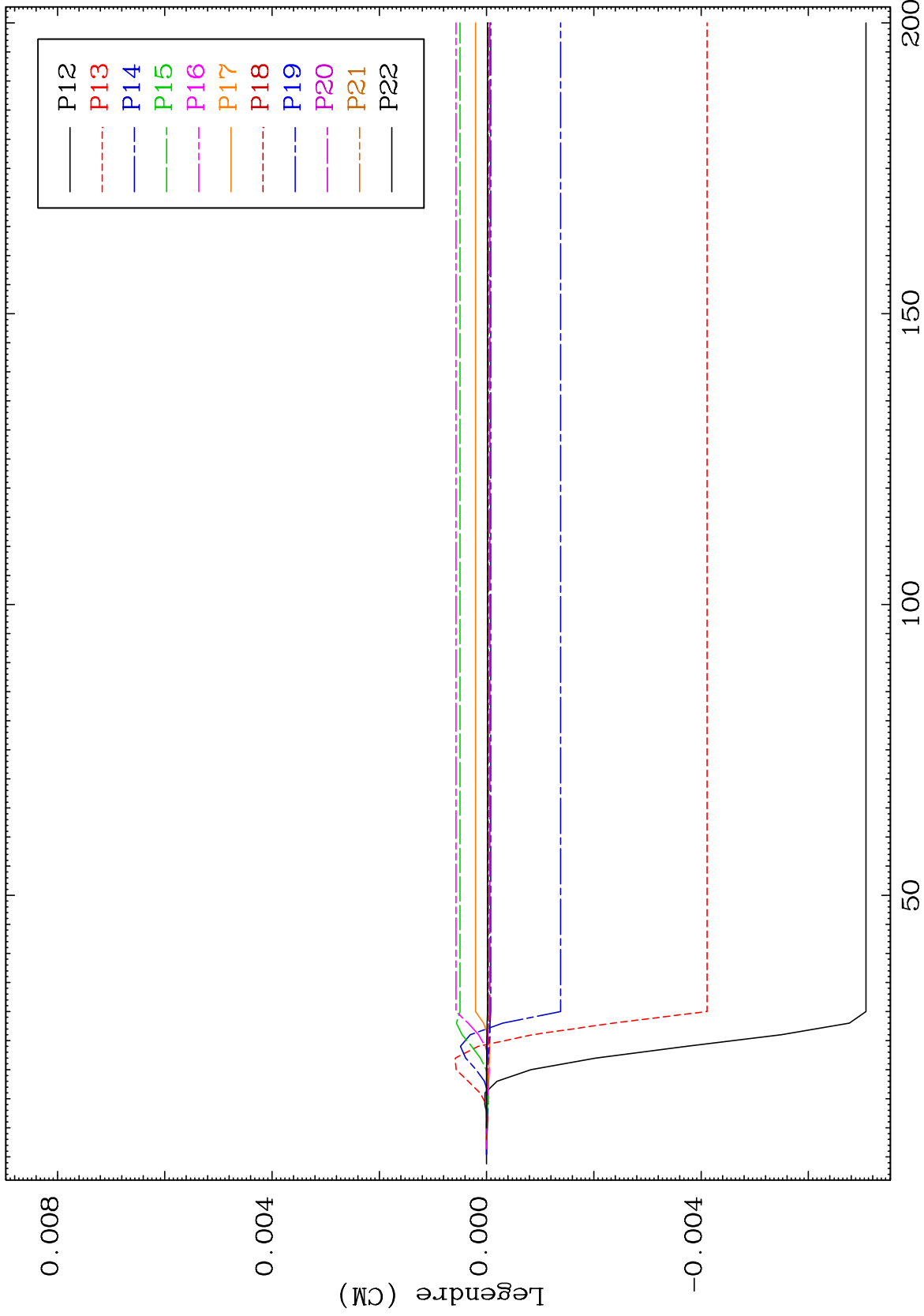
34-Se-83



MAT 3452

2.178 MeV (n,n') Level
Legendre Coefficients

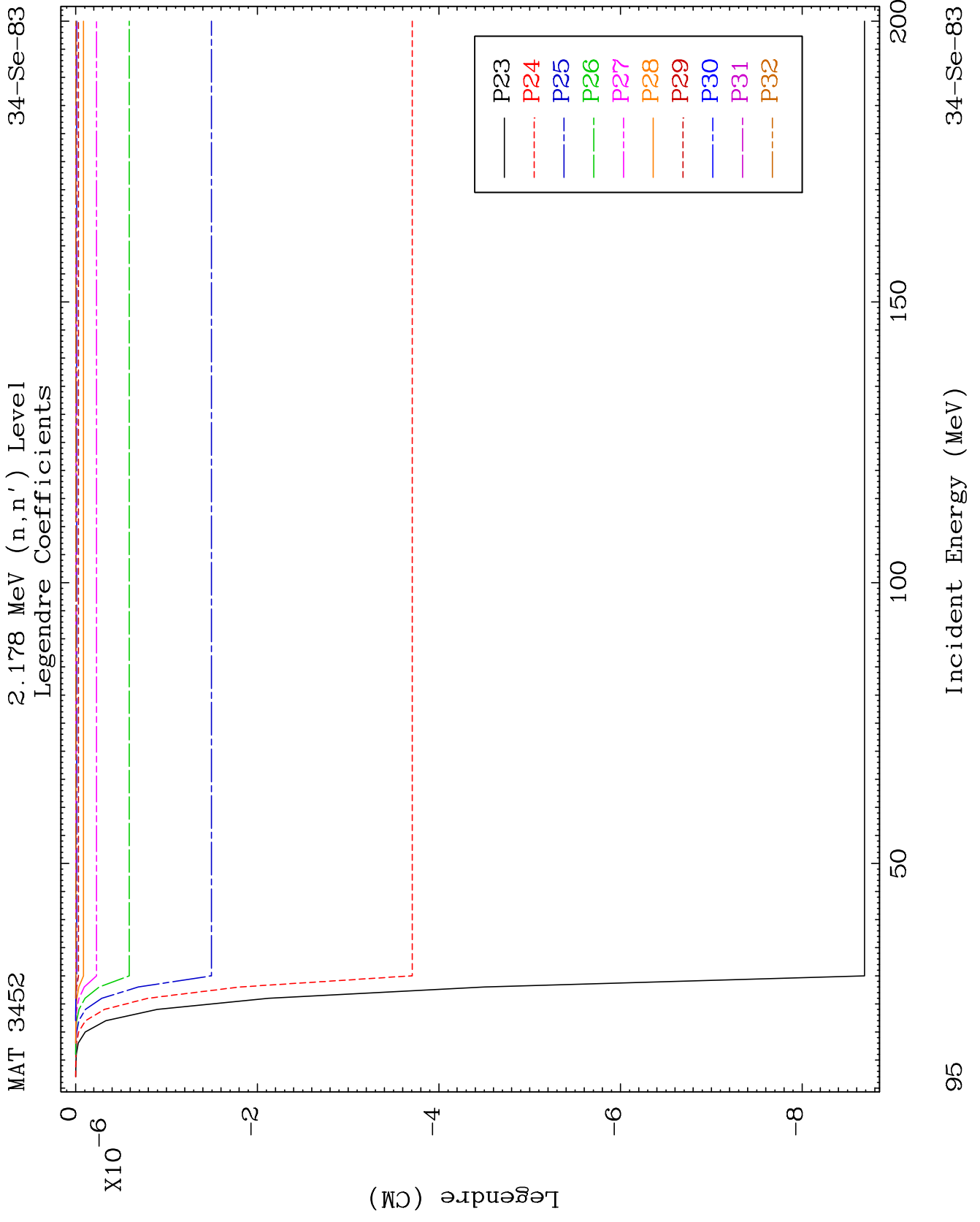
34-Se-83



94

Incident Energy (MeV)

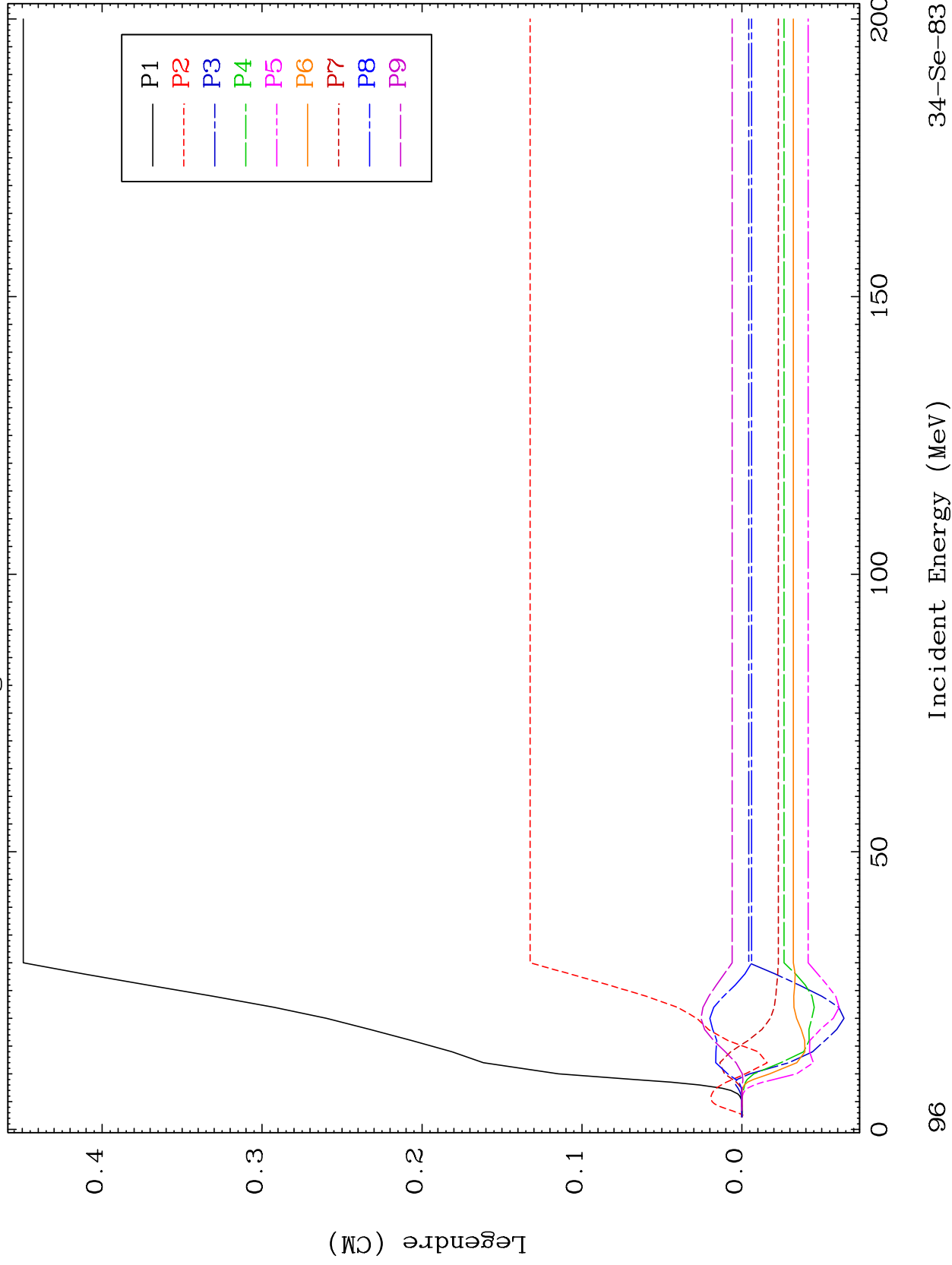
34-Se-83



MAT 3452

2.195 MeV (n,n') Level
Legendre Coefficients

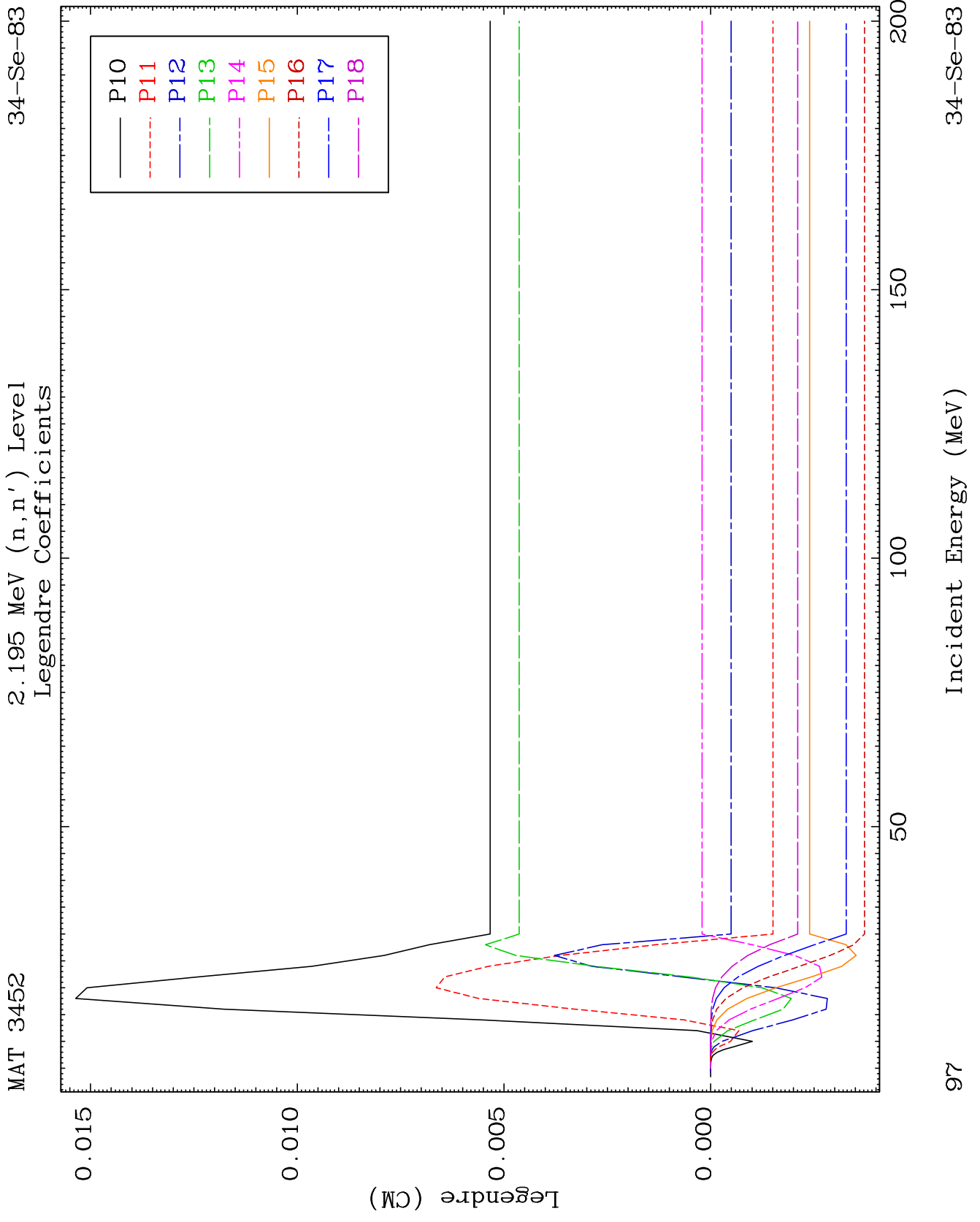
34-Se-83

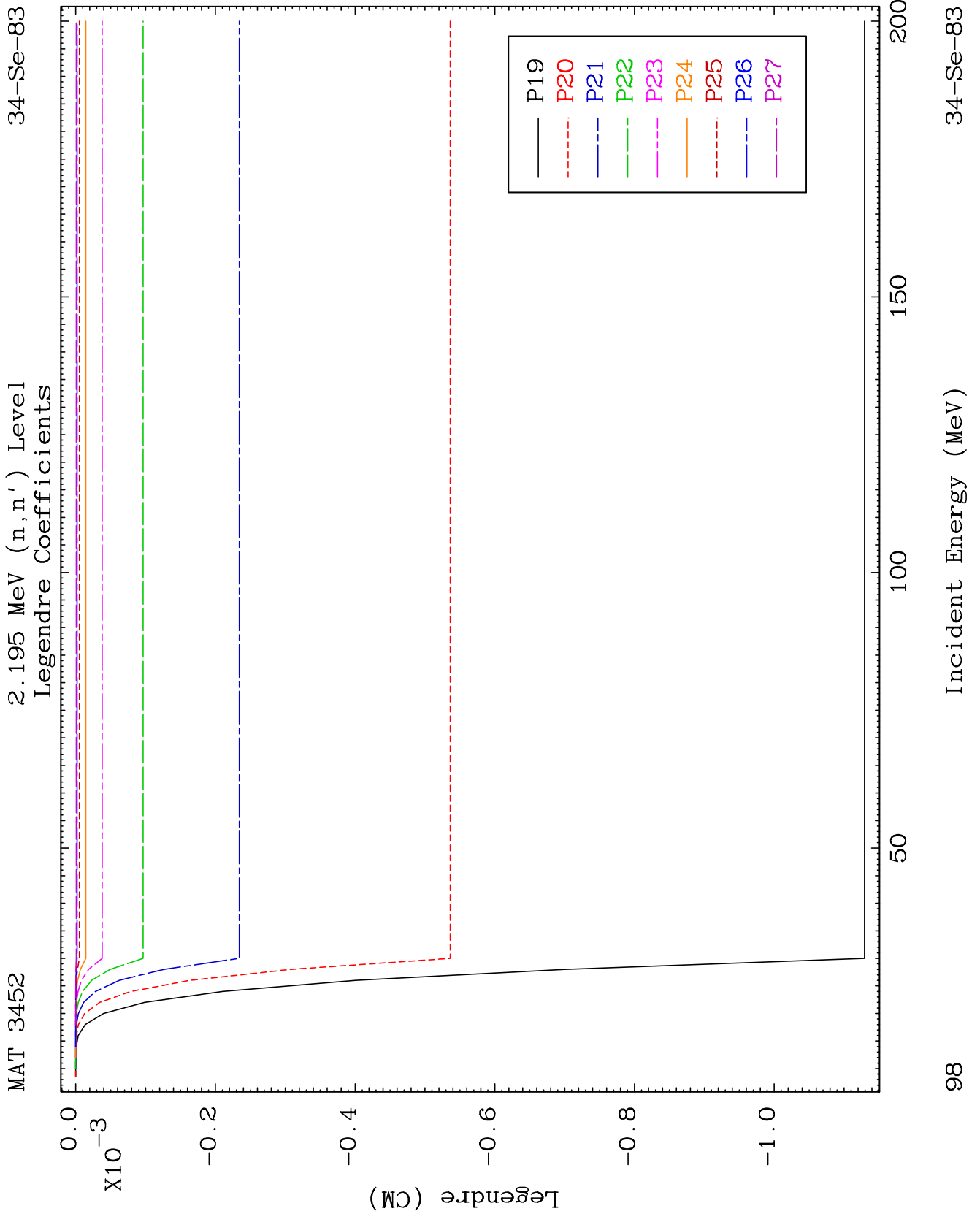


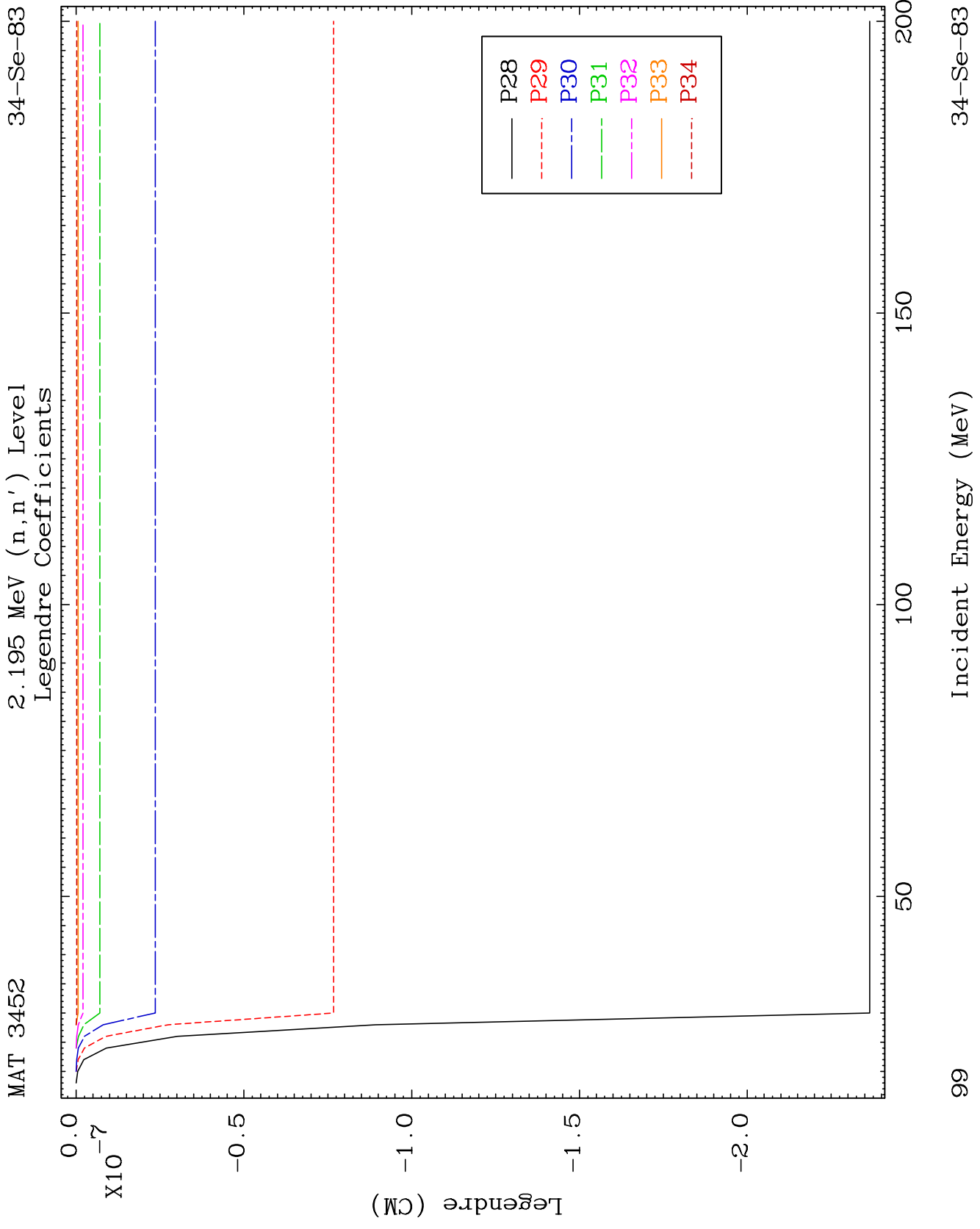
34-Se-83

Incident Energy (MeV)

96



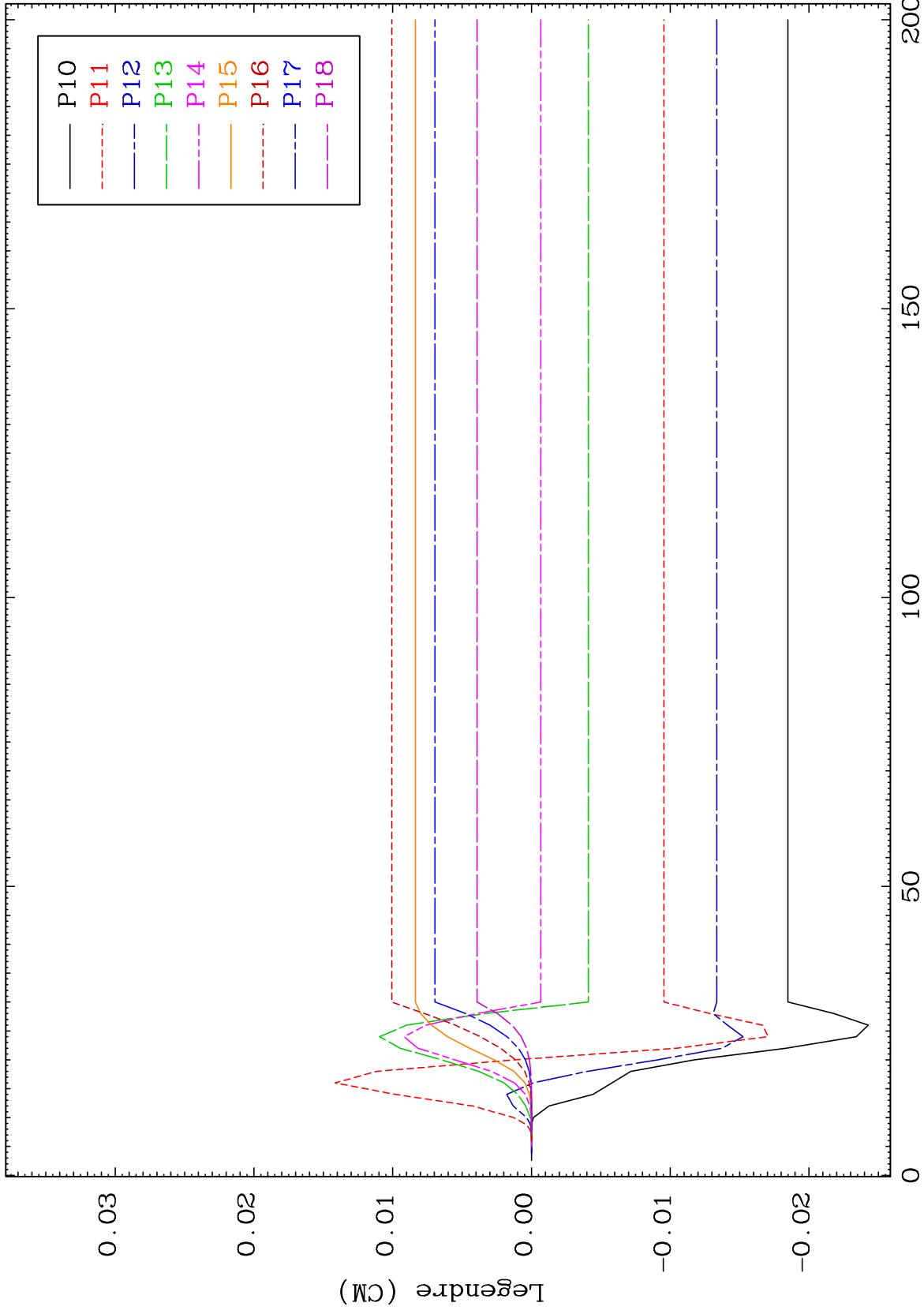




MAT 3452

2.314 MeV (n,n') Level
Legendre Coefficients

³⁴Se-83



101

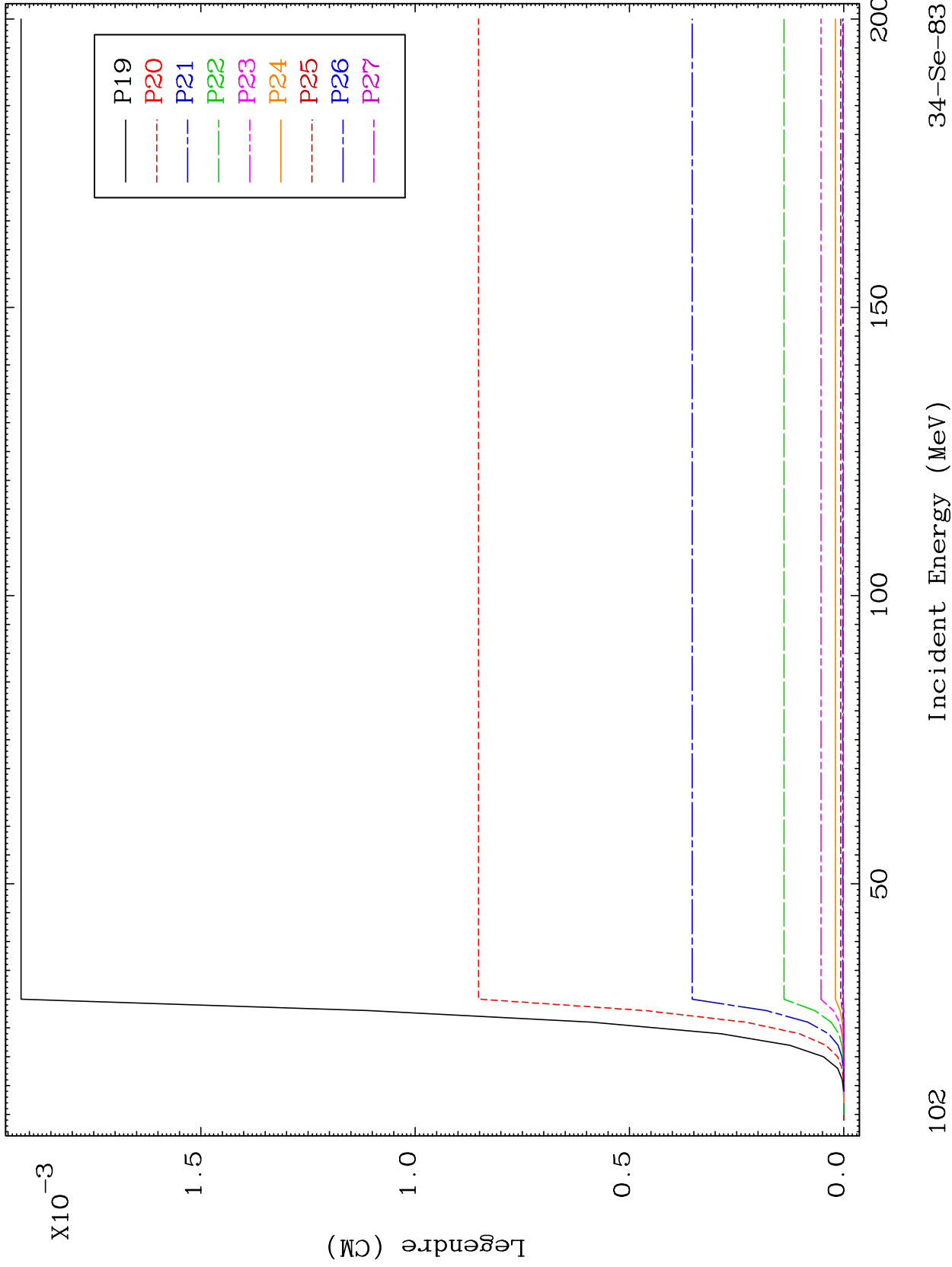
Incident Energy (MeV)

³⁴Se-83

MAT 3452

2.314 MeV (n,n') Level
Legendre Coefficients

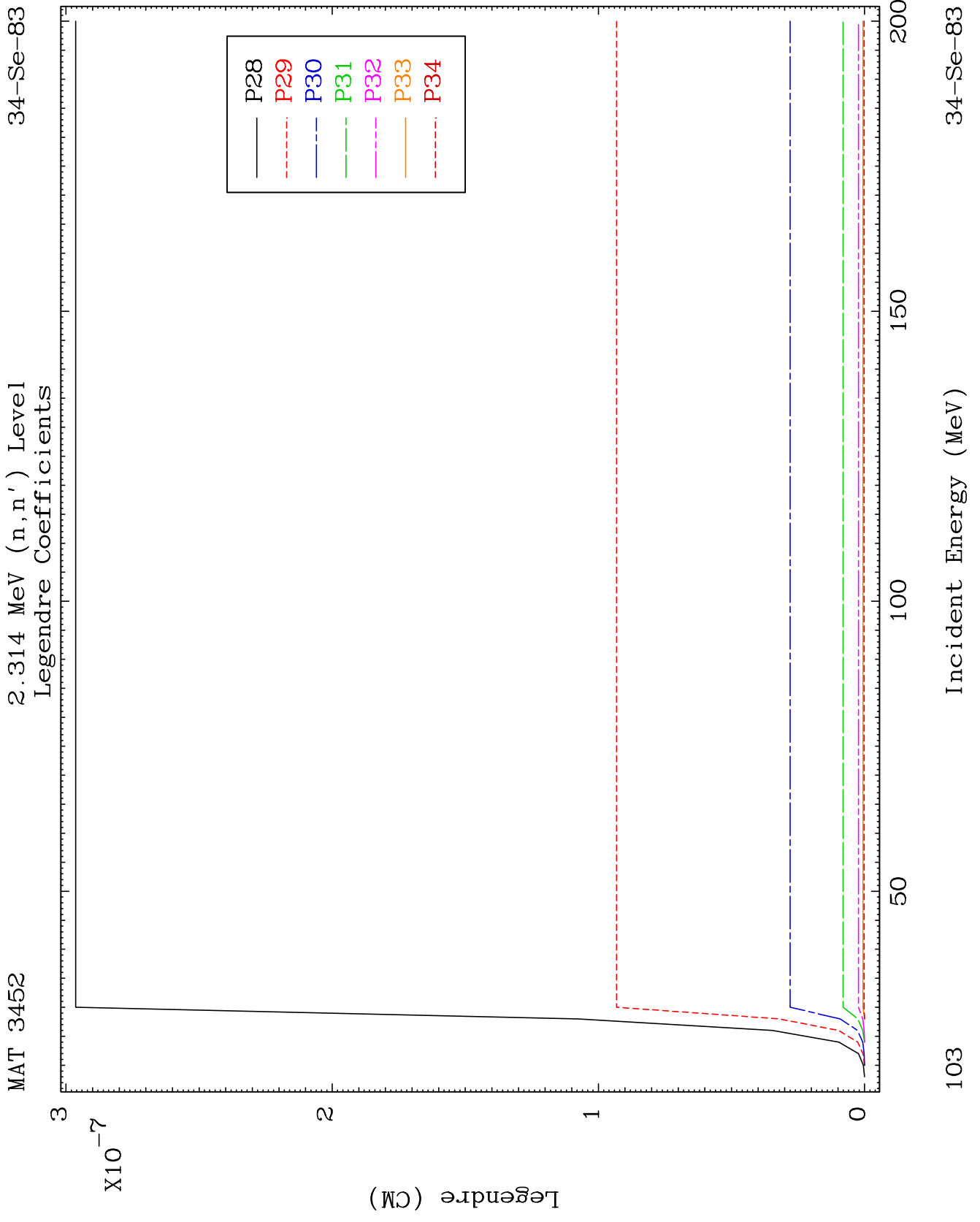
³⁴Se-83



102

Incident Energy (MeV)

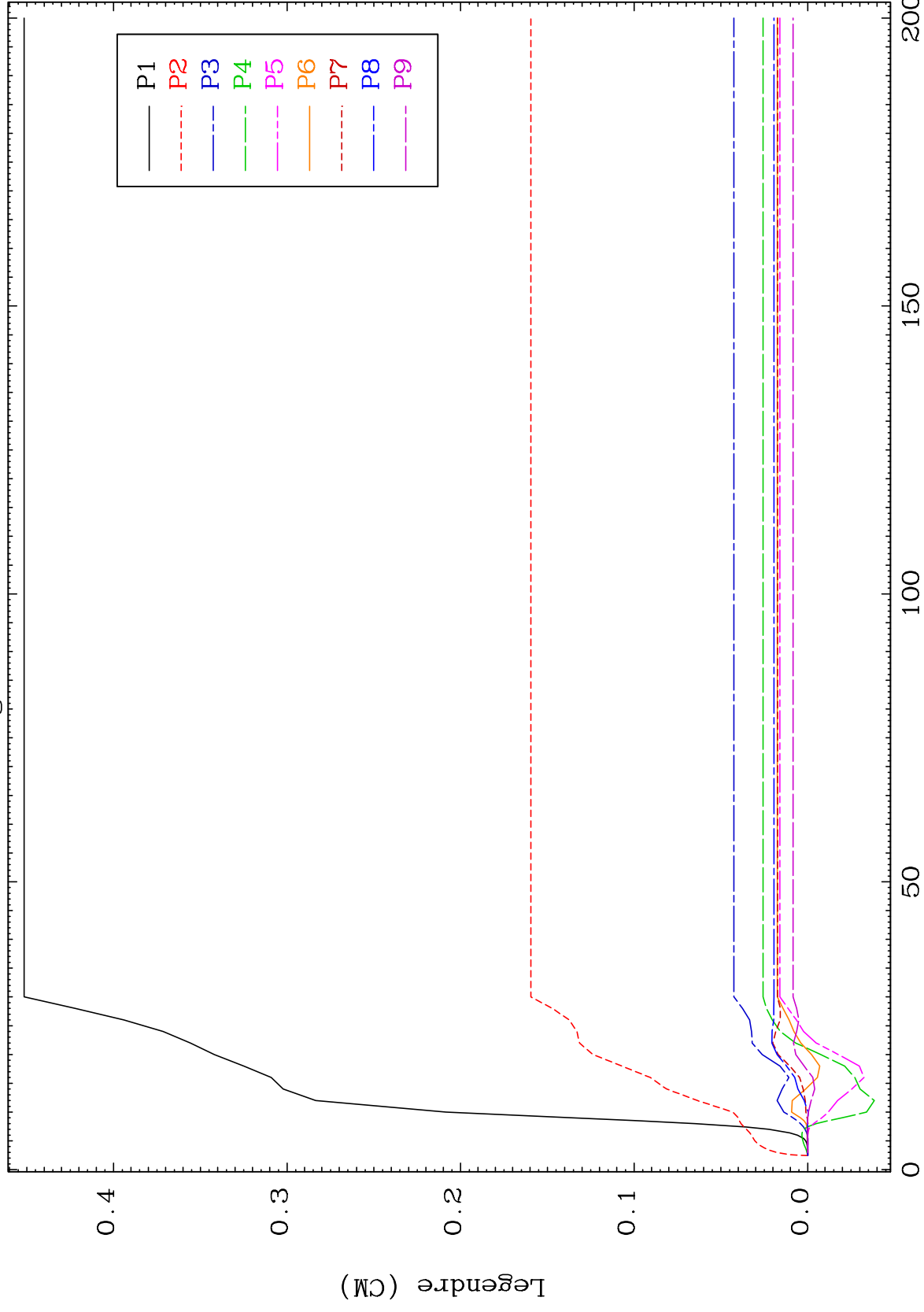
³⁴Se-83



MAT 3452

2.409 MeV (n,n') Level
Legendre Coefficients

34-Se-83



104

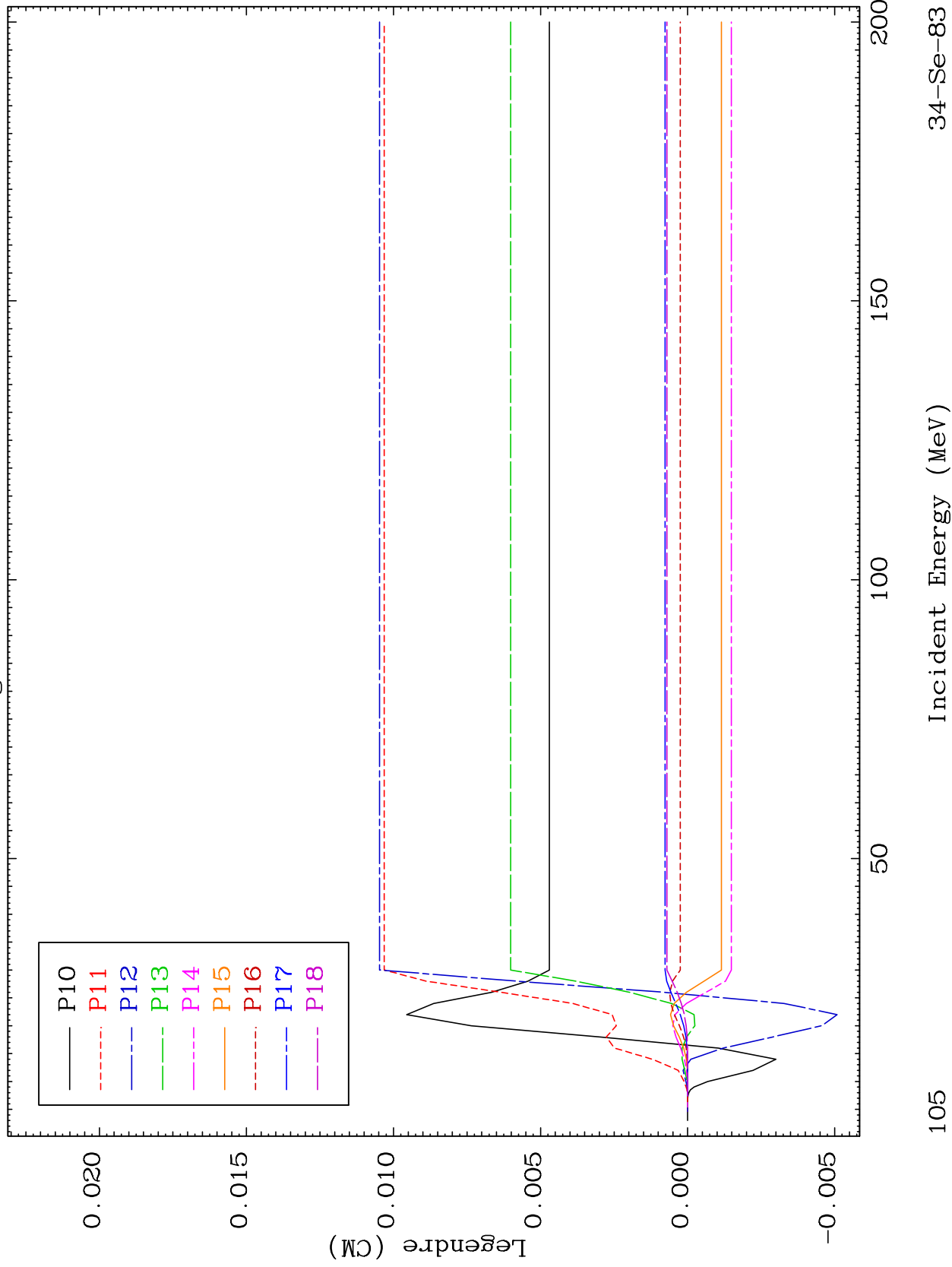
Incident Energy (MeV)

34-Se-83

MAT 3452

2.409 MeV (n,n') Level
Legendre Coefficients

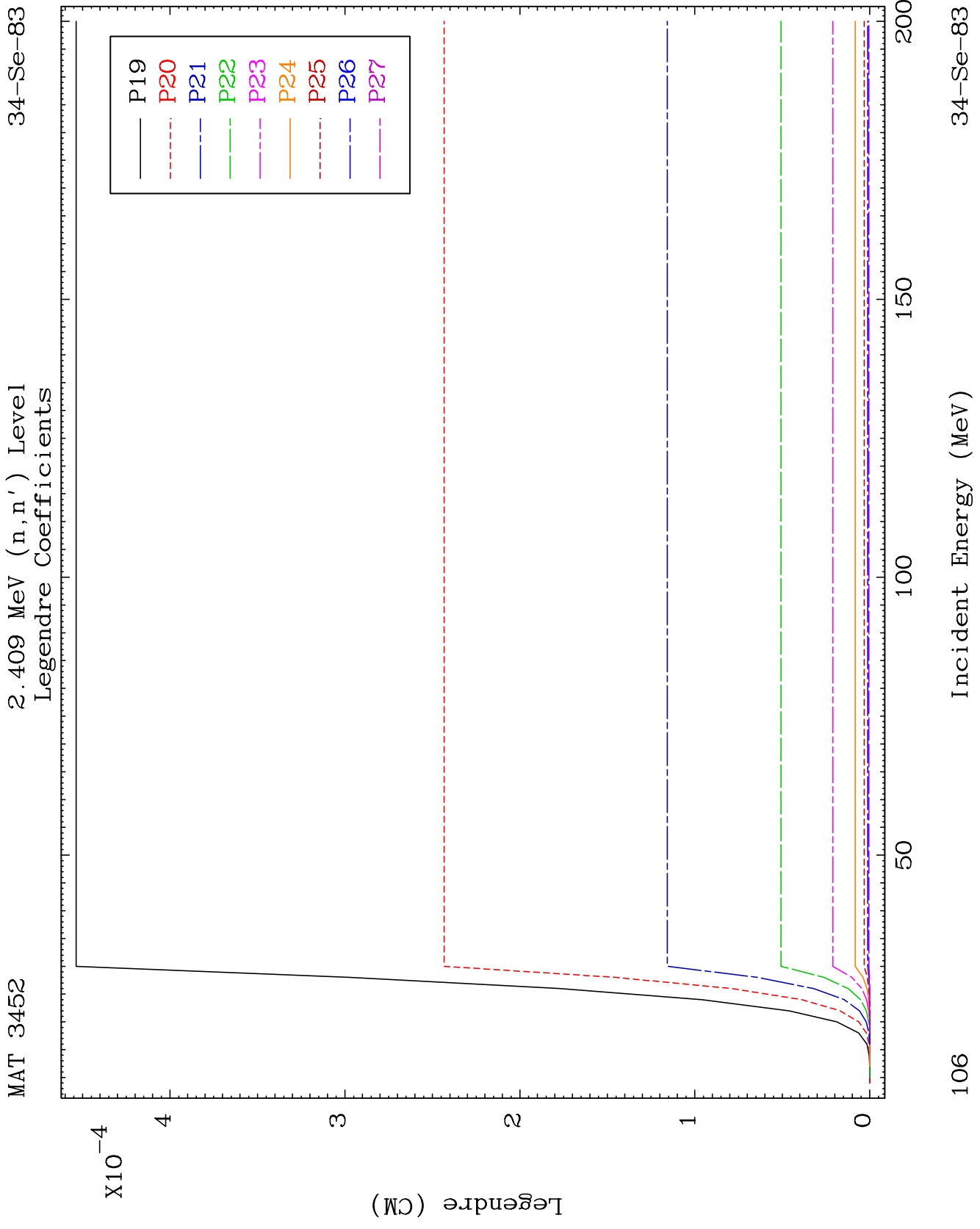
34-Se-83



105

Incident Energy (MeV)

34-Se-83

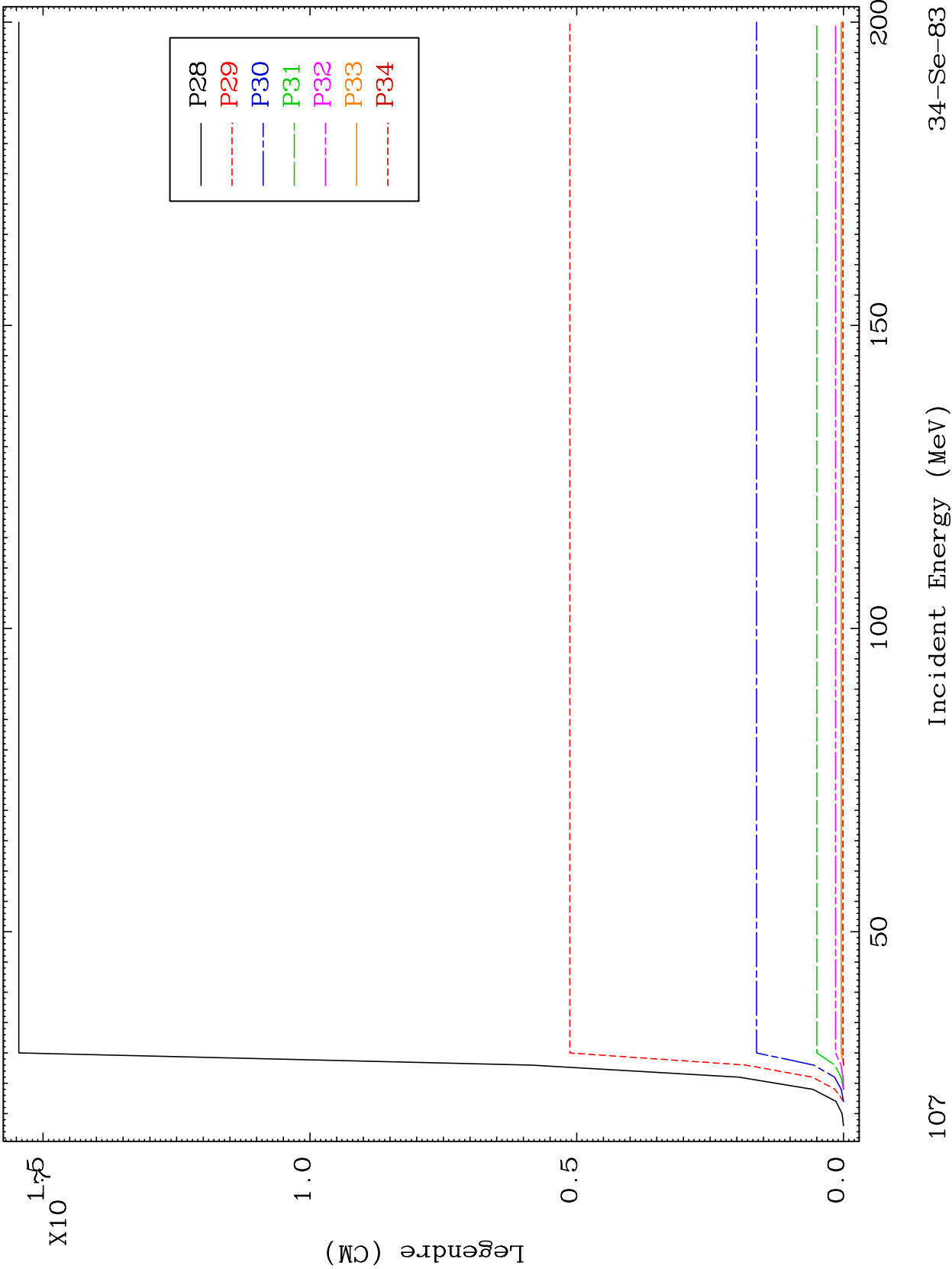


MAT 3452

2.409 MeV (n, n') Level

34-Se-83

Legendre Coefficients



107

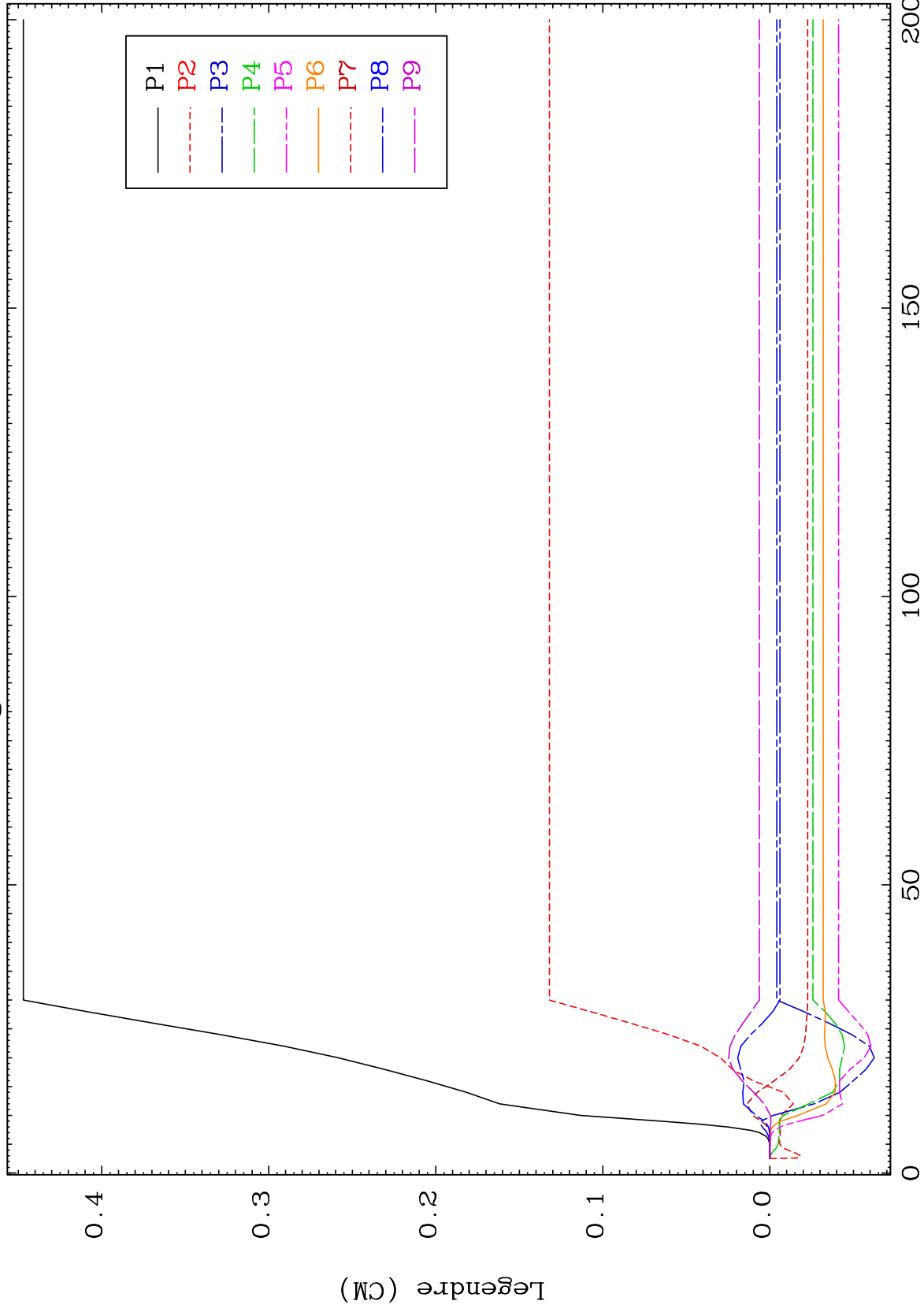
Incident Energy (MeV)

34-Se-83

MAT 3452

2.483 MeV (n,n') Level
Legendre Coefficients

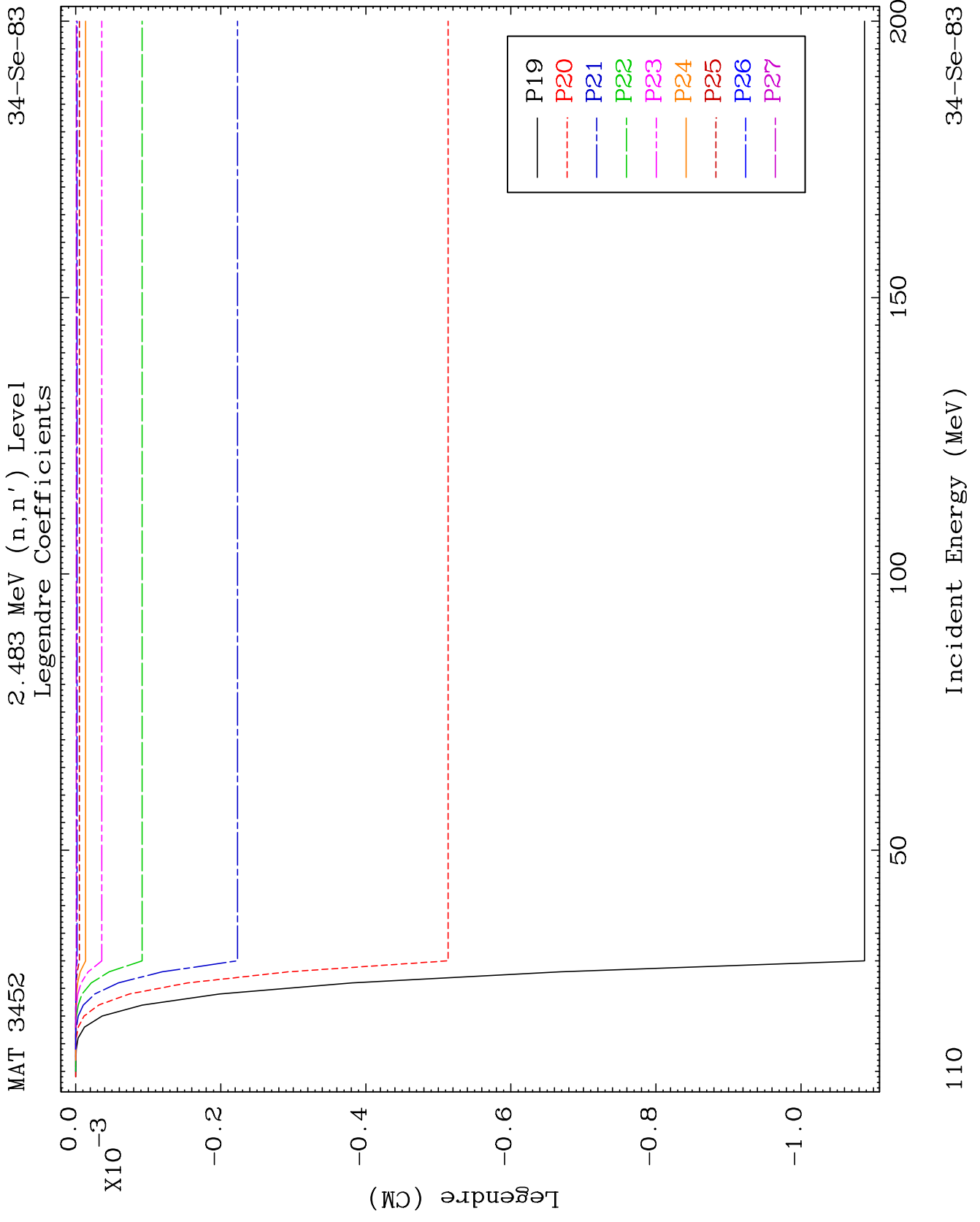
34-Se-83

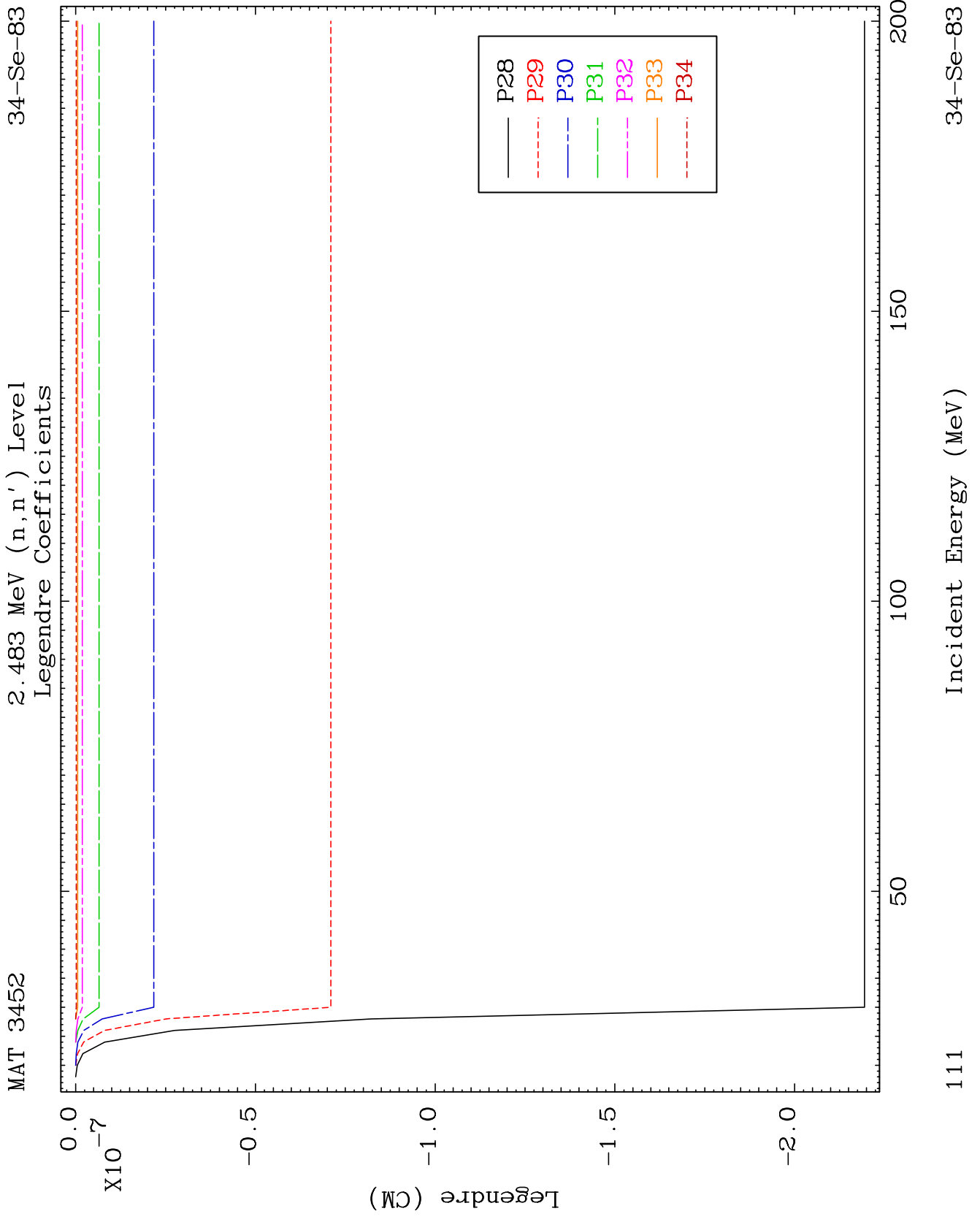


108

Incident Energy (MeV)

34-Se-83

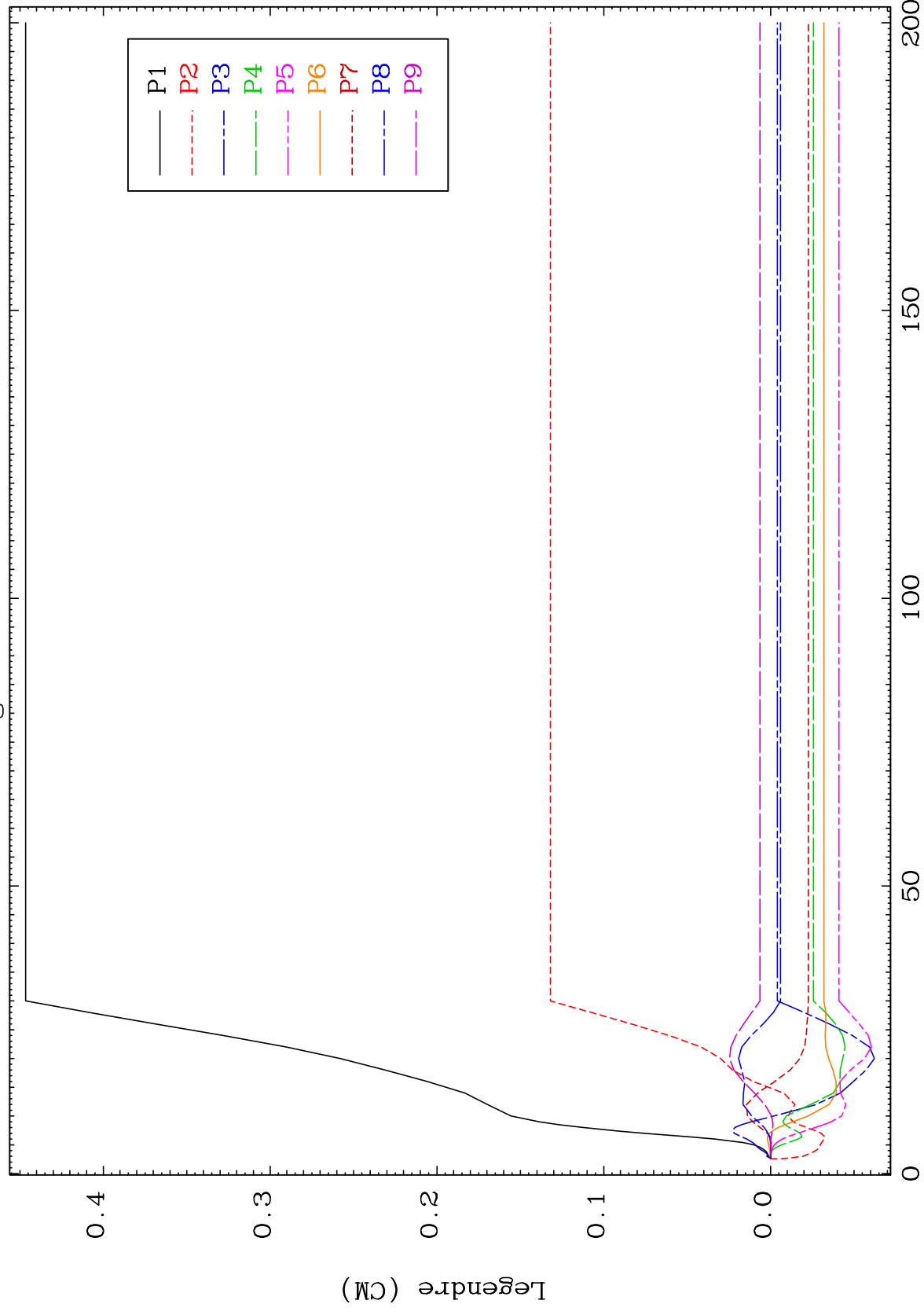




MAT 3452

2.536 MeV (n,n') Level
Legendre Coefficients

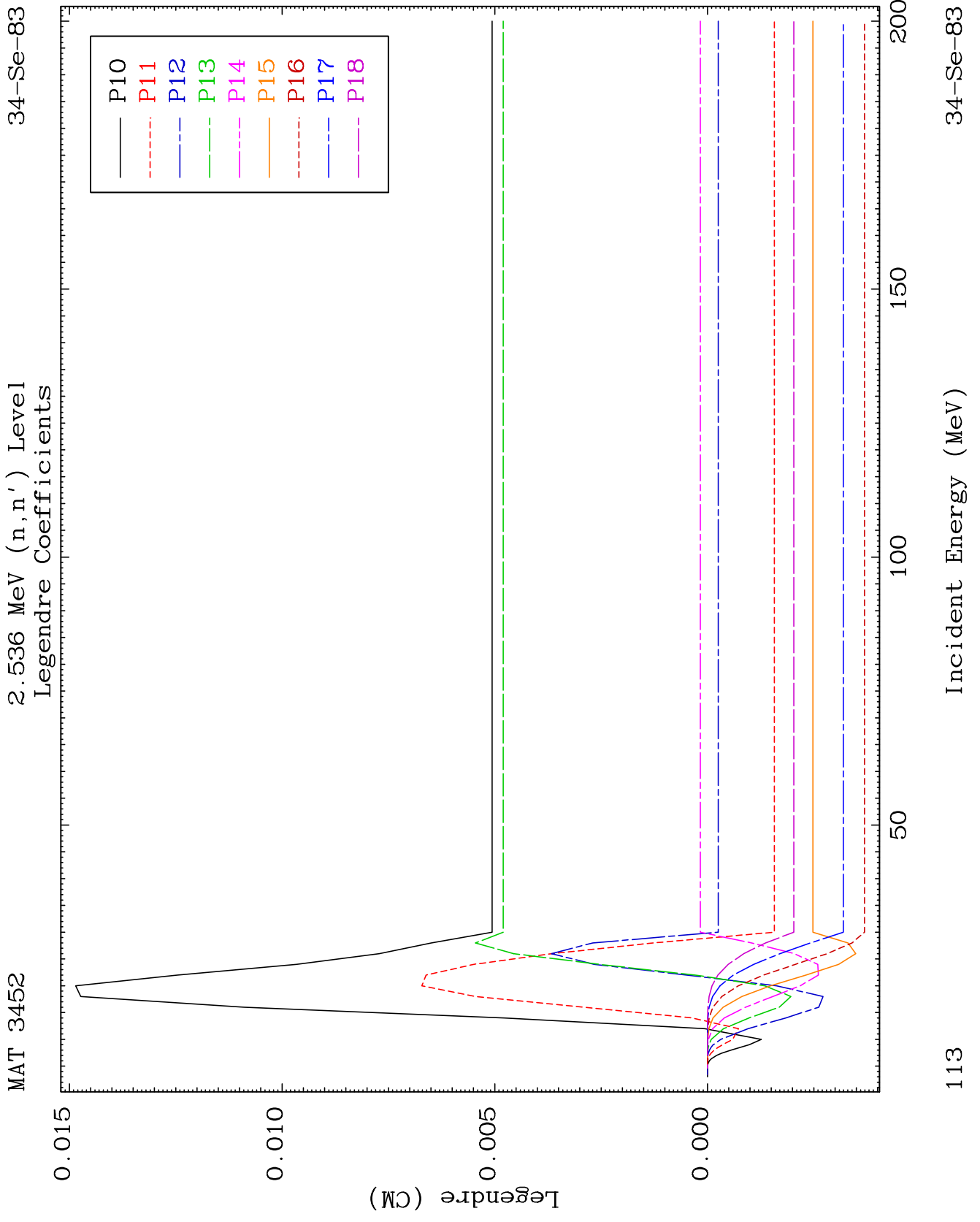
34-Se-83

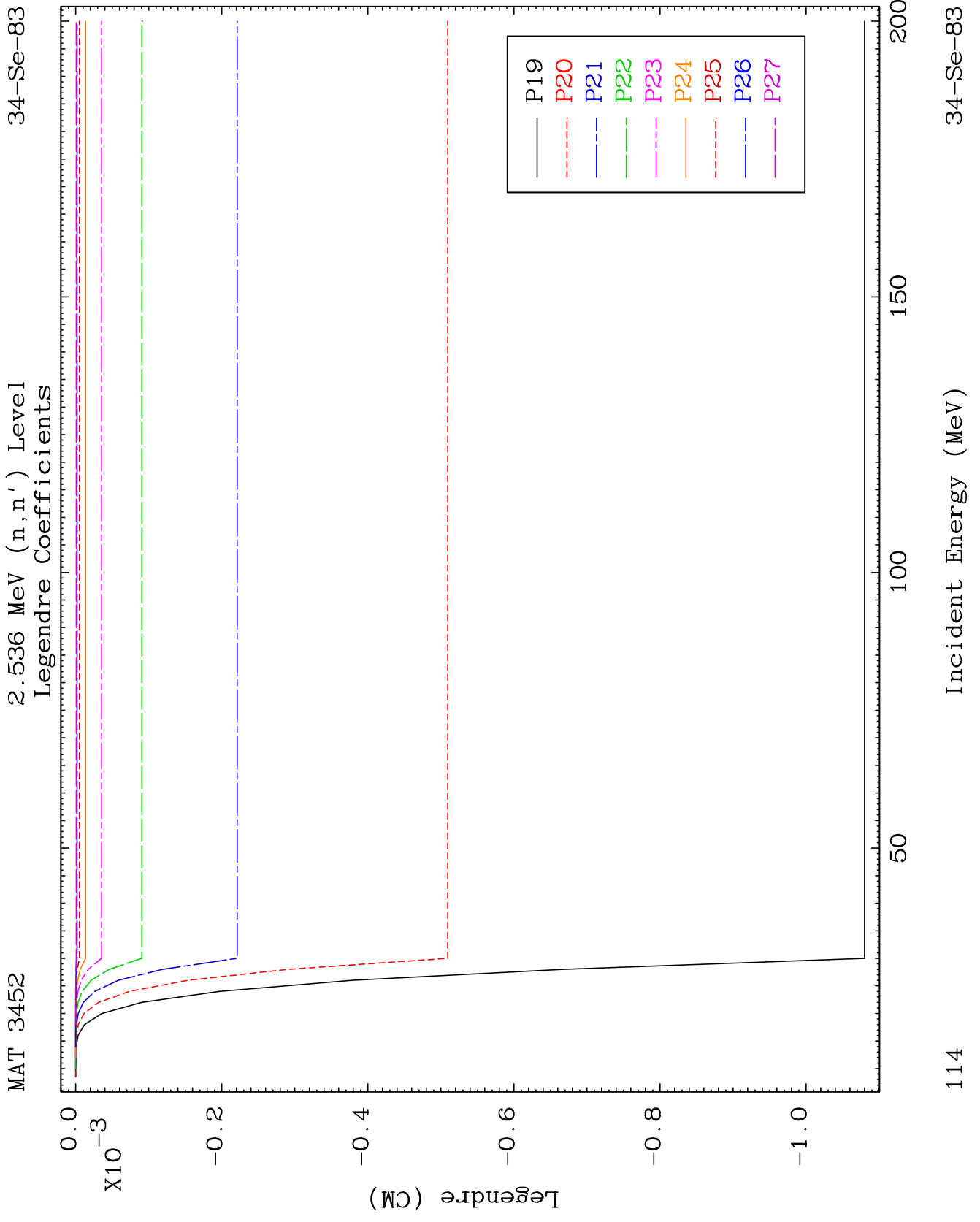


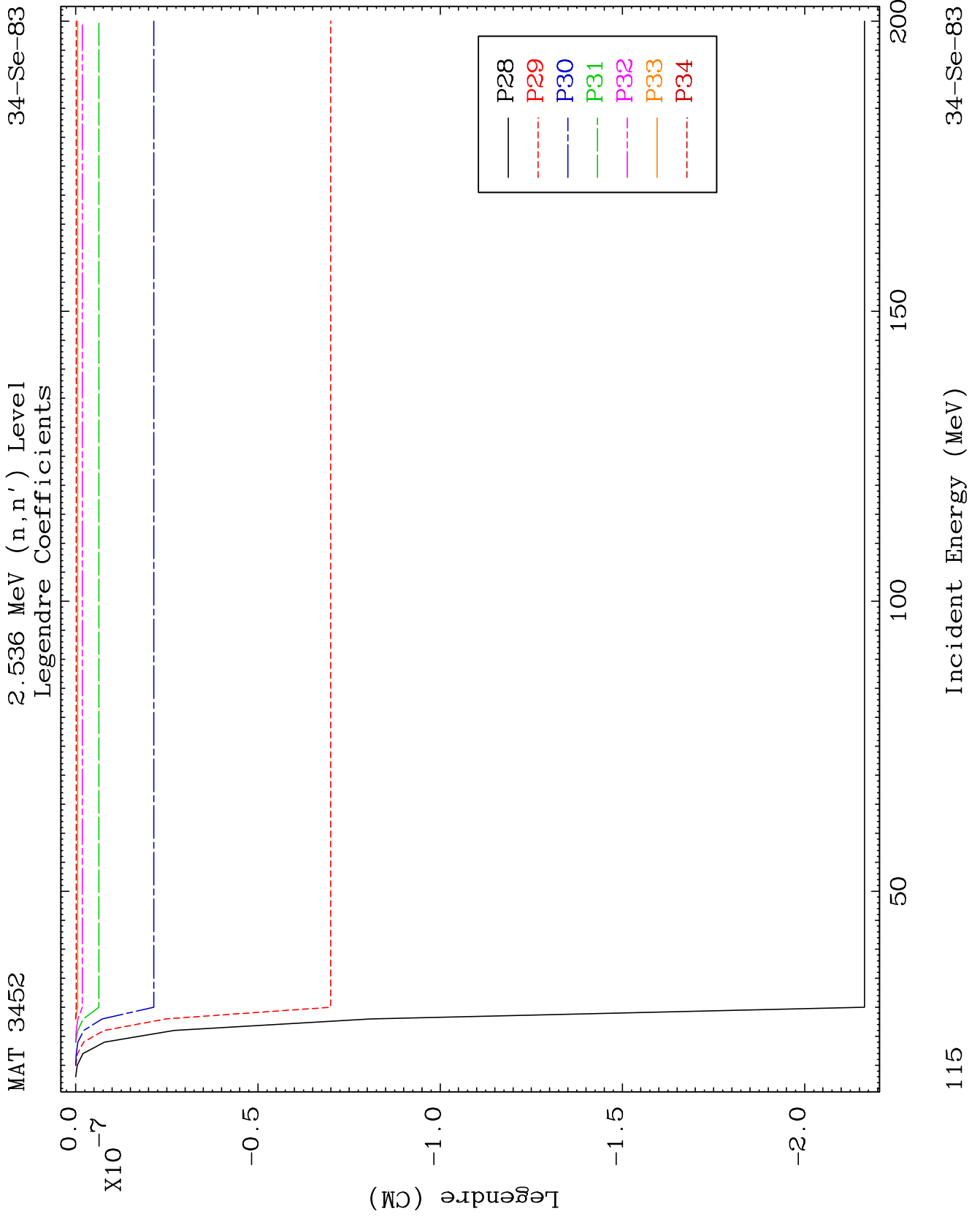
112

Incident Energy (MeV)

34-Se-83



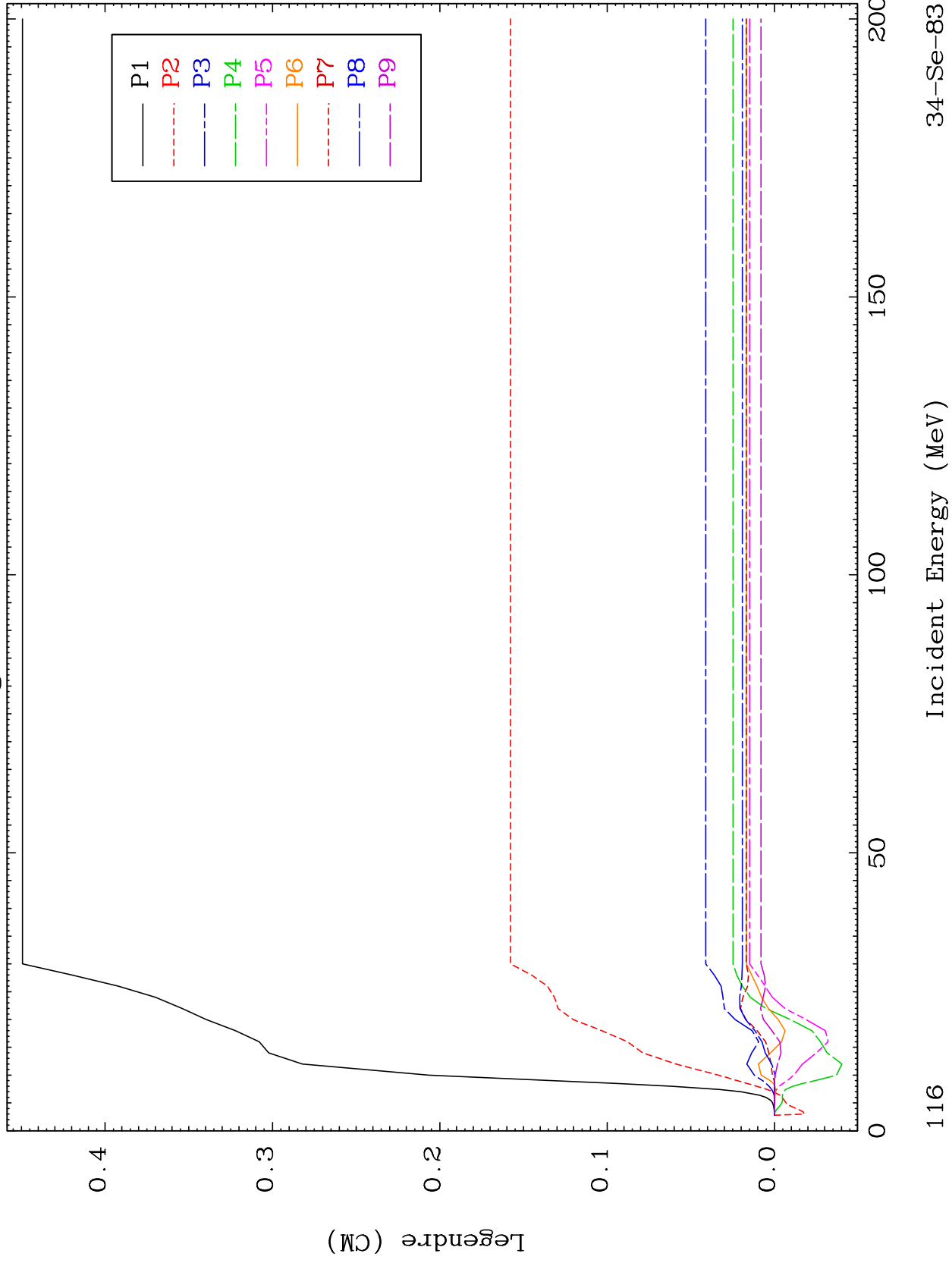




MAT 3452

2.741 MeV (n,n') Level
Legendre Coefficients

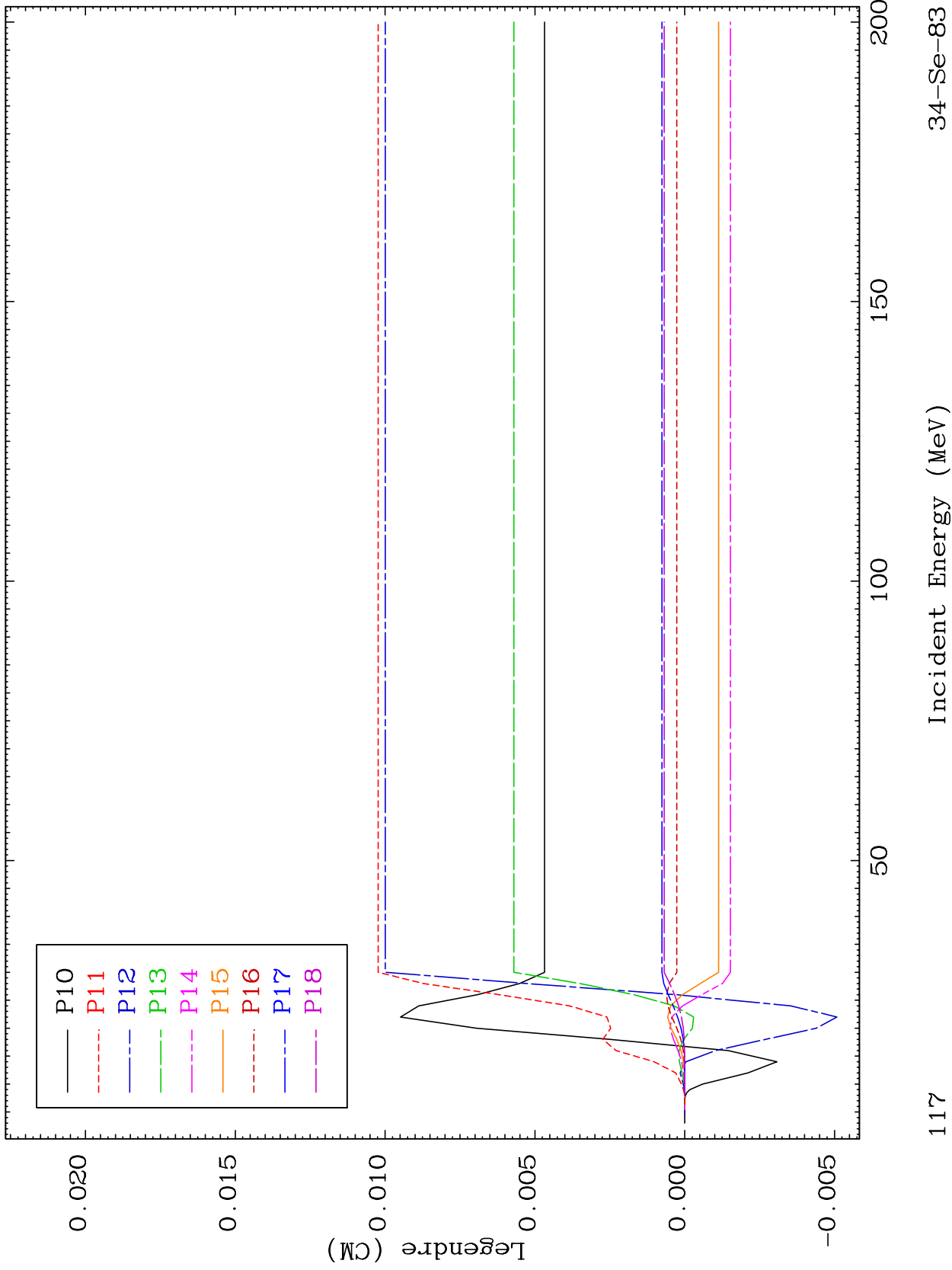
34-Se-83



116

Incident Energy (MeV)

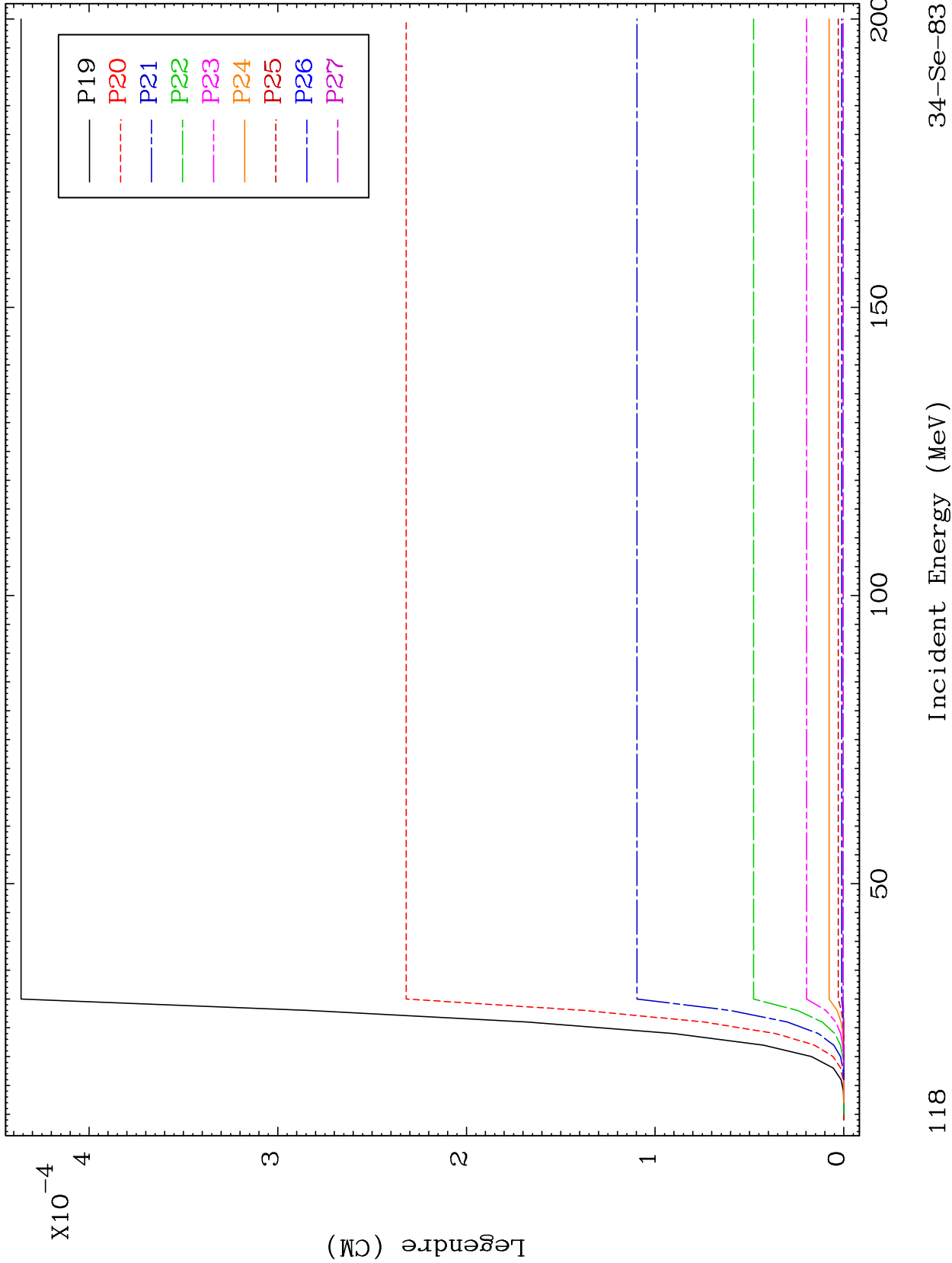
34-Se-83



MAT 3452

2.741 MeV (n,n') Level
Legendre Coefficients

34-Se-83



118

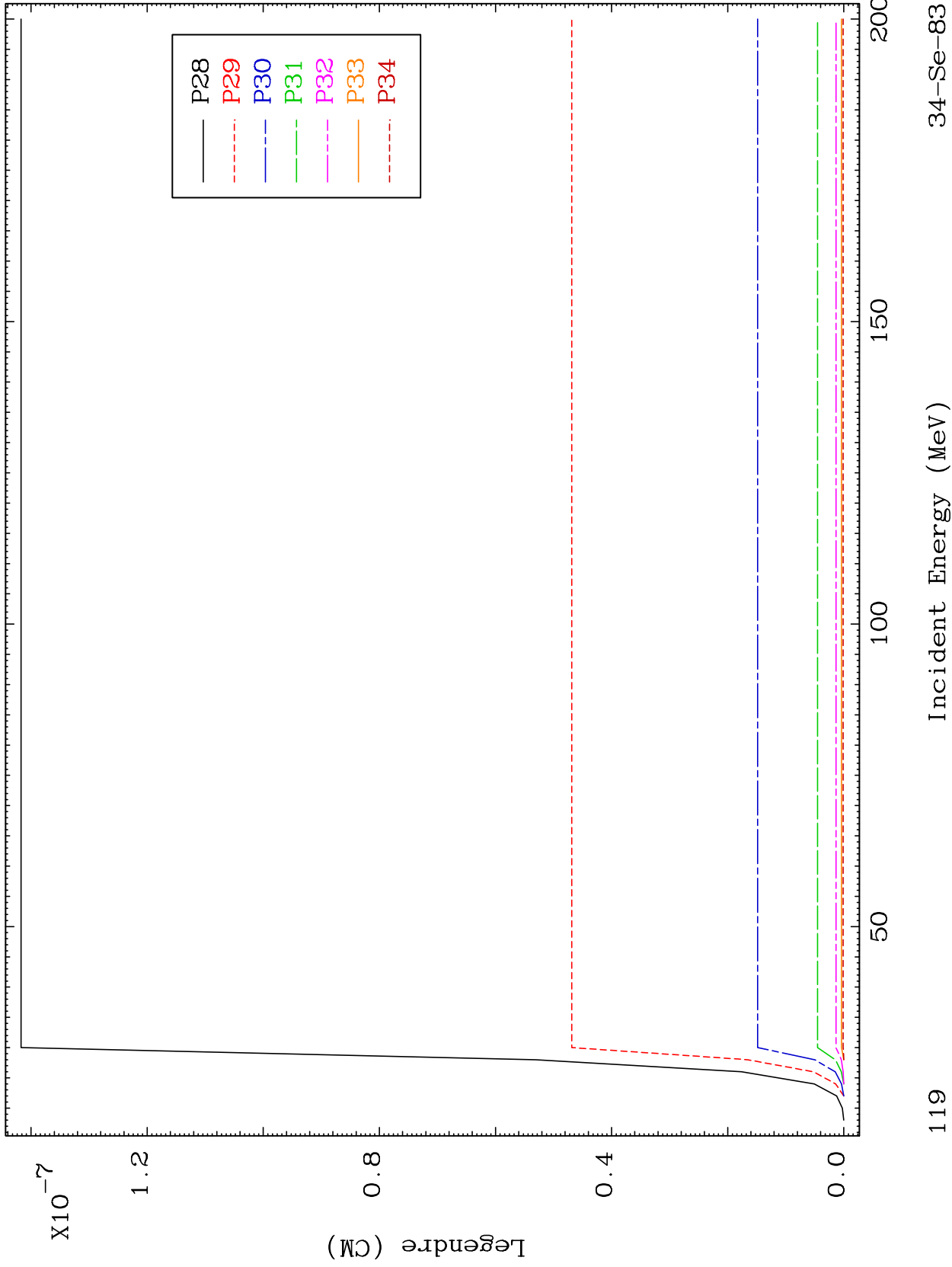
Incident Energy (MeV)

34-Se-83

MAT 3452

2.741 MeV (n,n') Level
Legendre Coefficients

34-Se-83



119

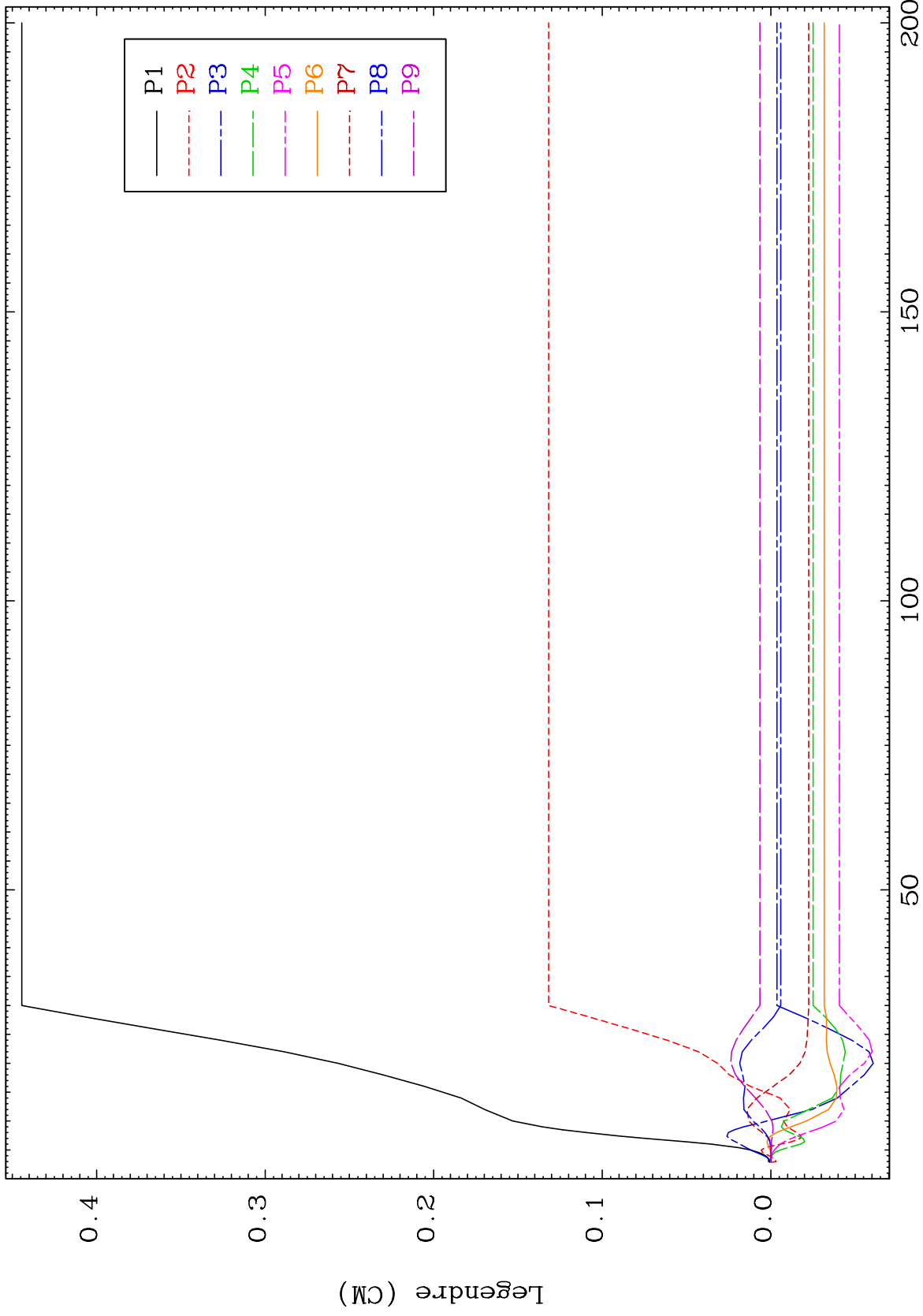
Incident Energy (MeV)

34-Se-83

MAT 3452

2.803 MeV (n,n') Level
Legendre Coefficients

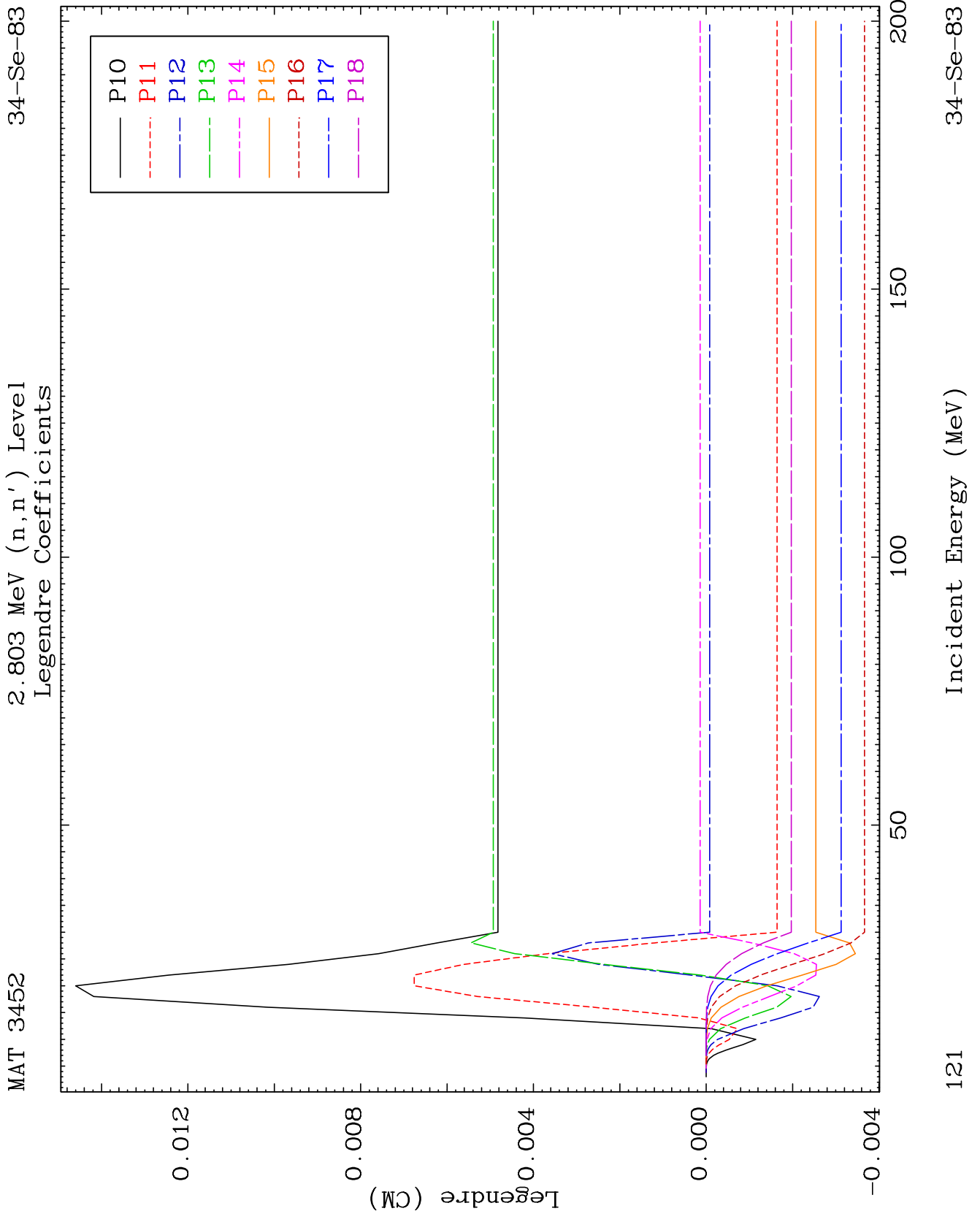
34-Se-83

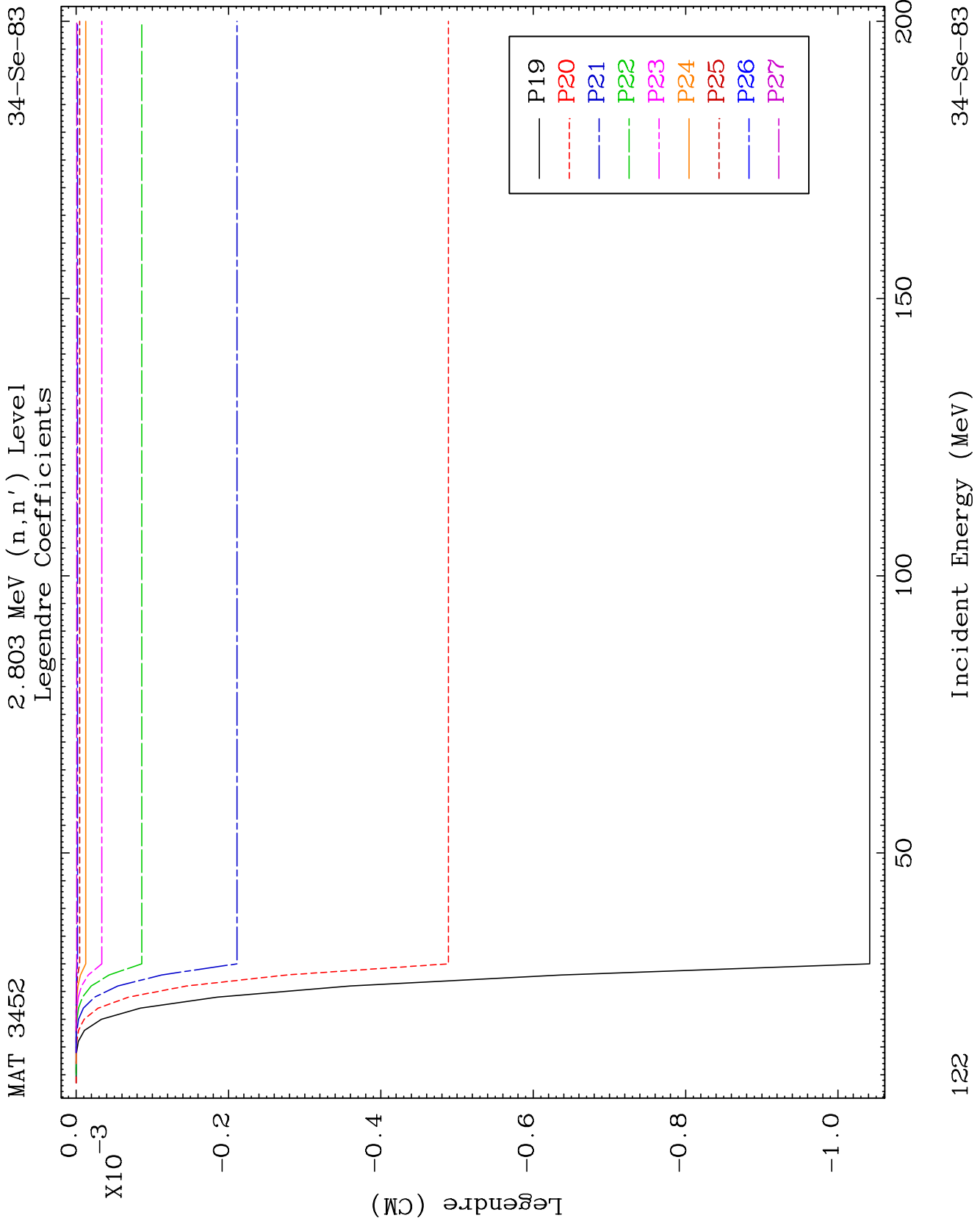


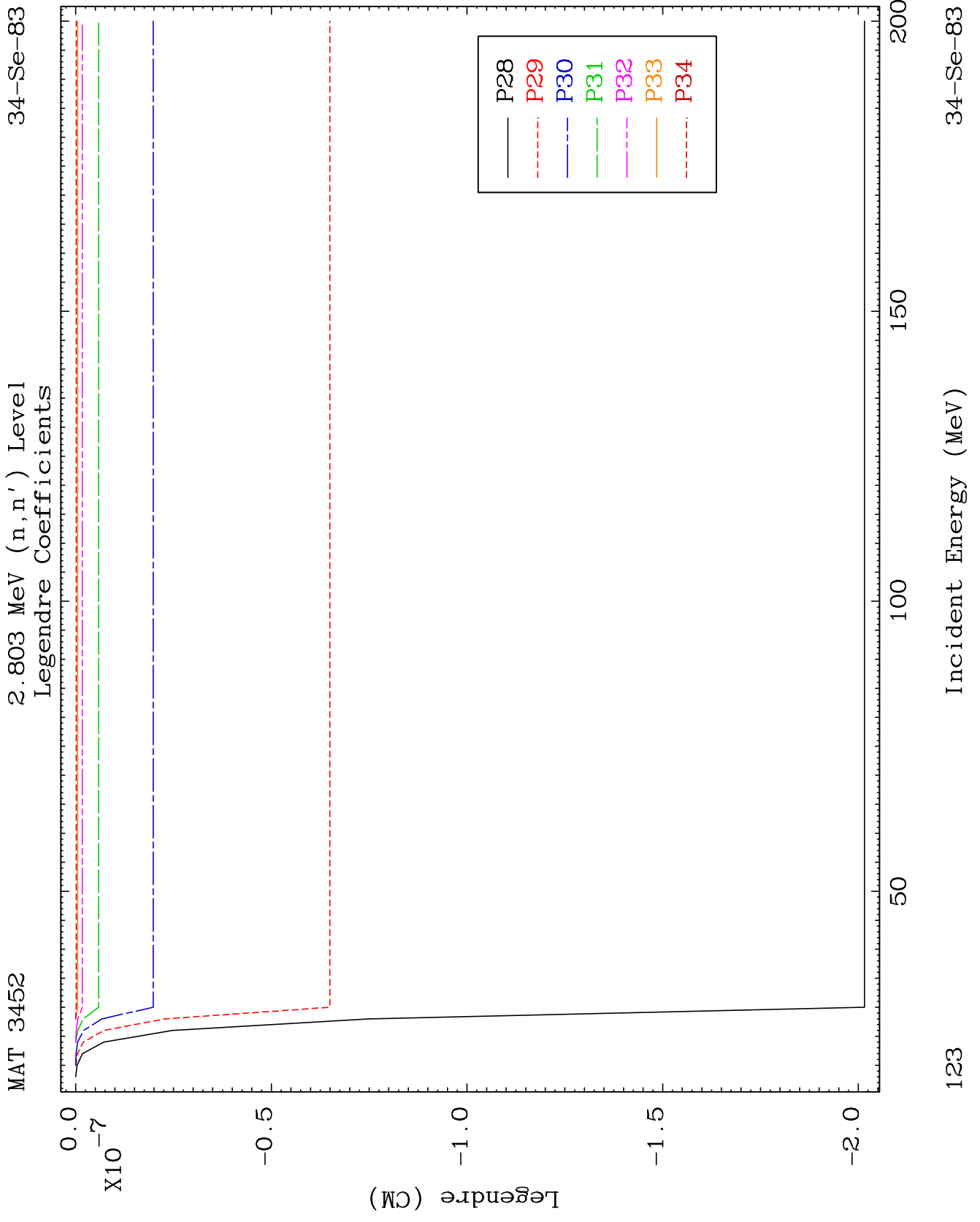
120

Incident Energy (MeV)

34-Se-83



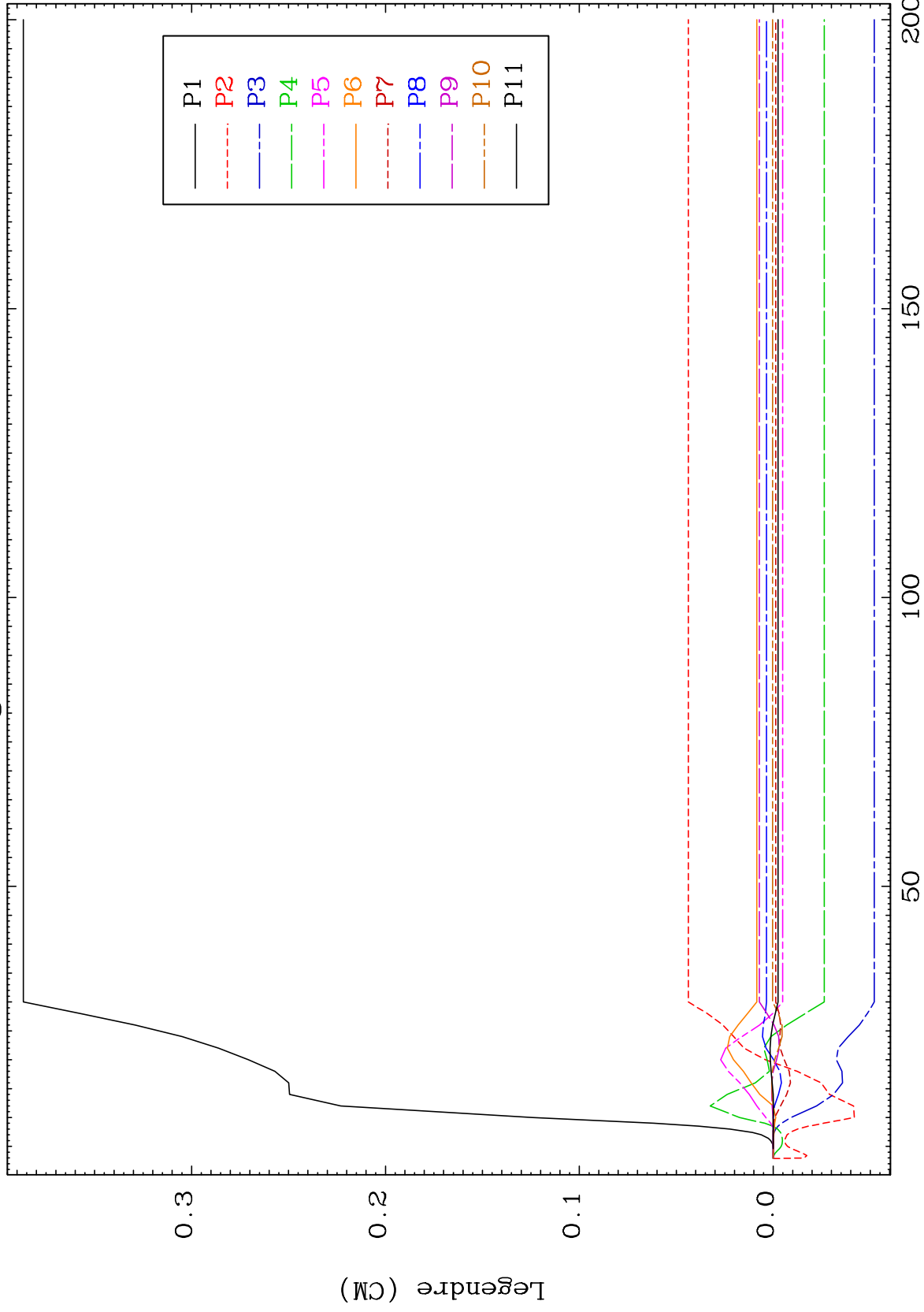




MAT 3452

2.858 MeV (n,n') Level
Legendre Coefficients

34-Se-83



124

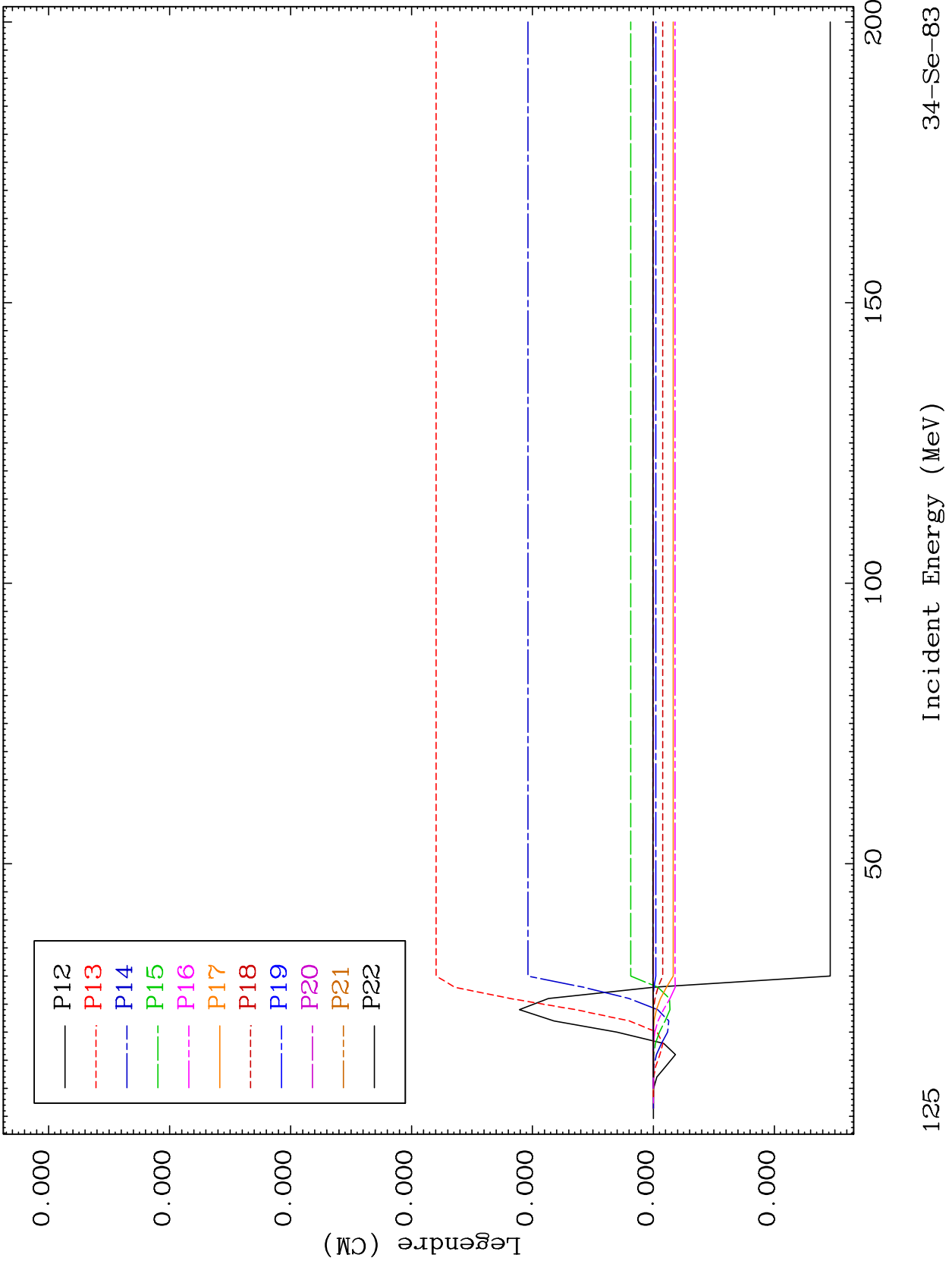
Incident Energy (MeV)

34-Se-83

MAT 3452

2.858 MeV (n,n') Level
Legendre Coefficients

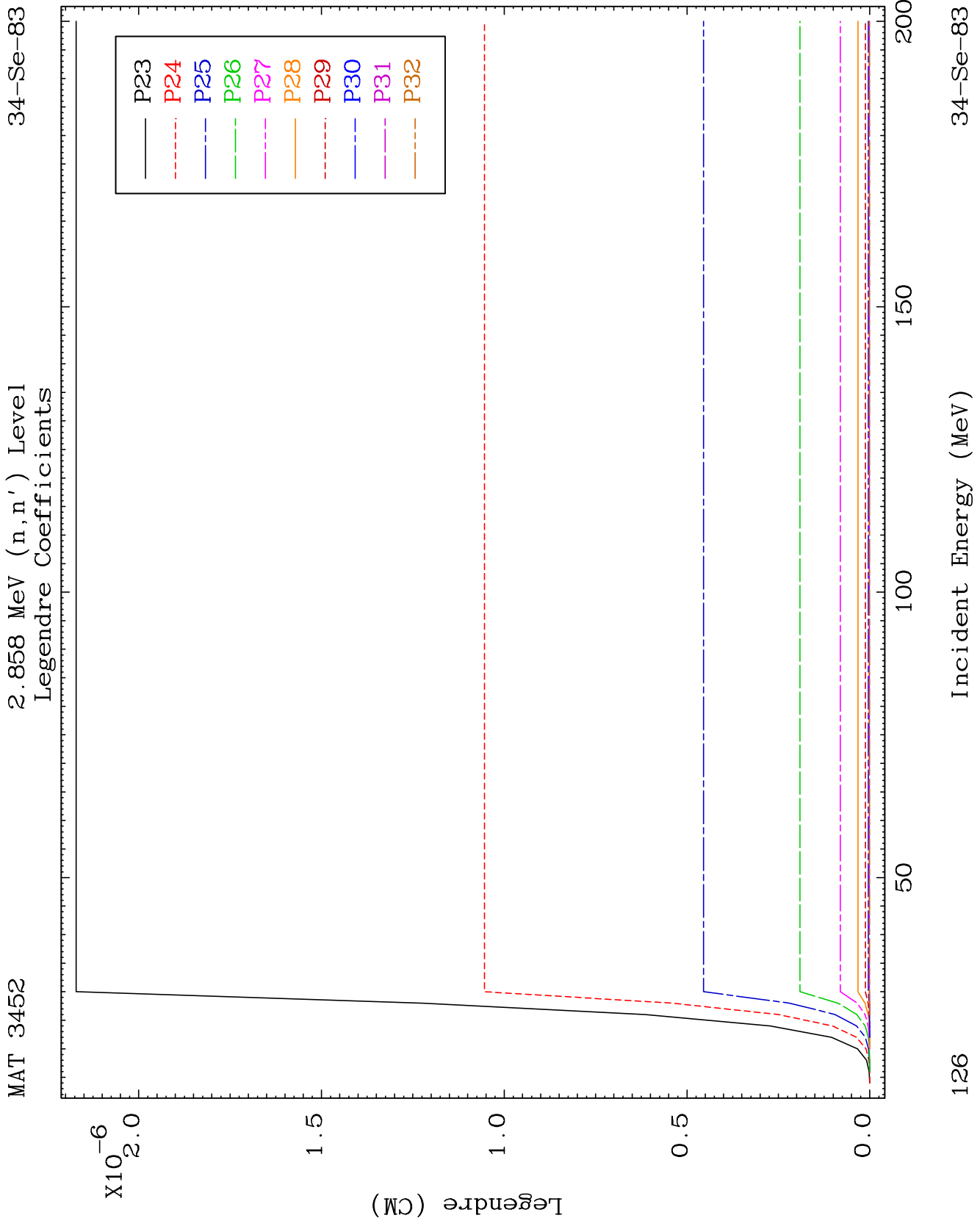
34-Se-83



125

Incident Energy (MeV)

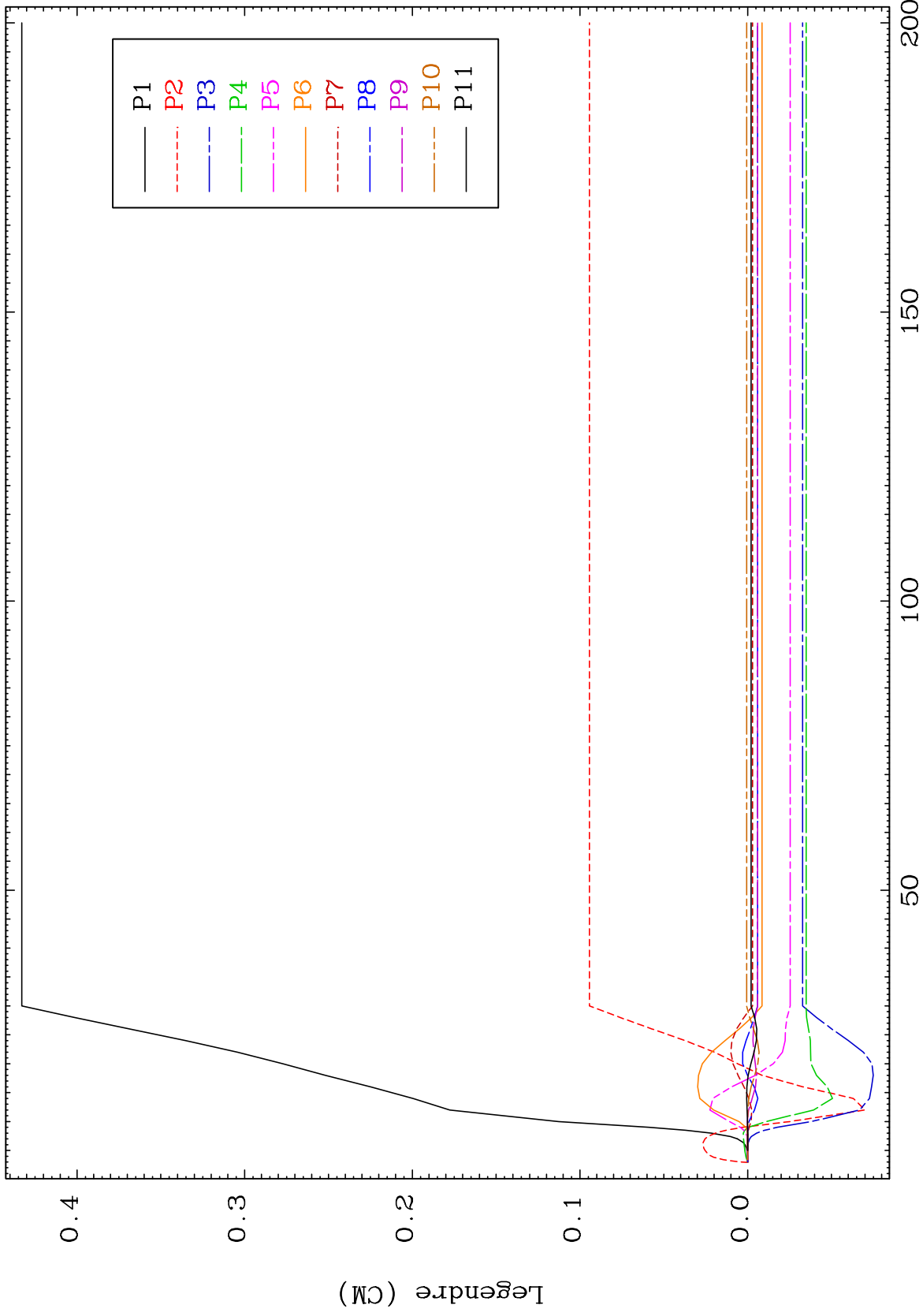
34-Se-83



MAT 3452

2.880 MeV (n,n') Level
Legendre Coefficients

34-Se-83



127

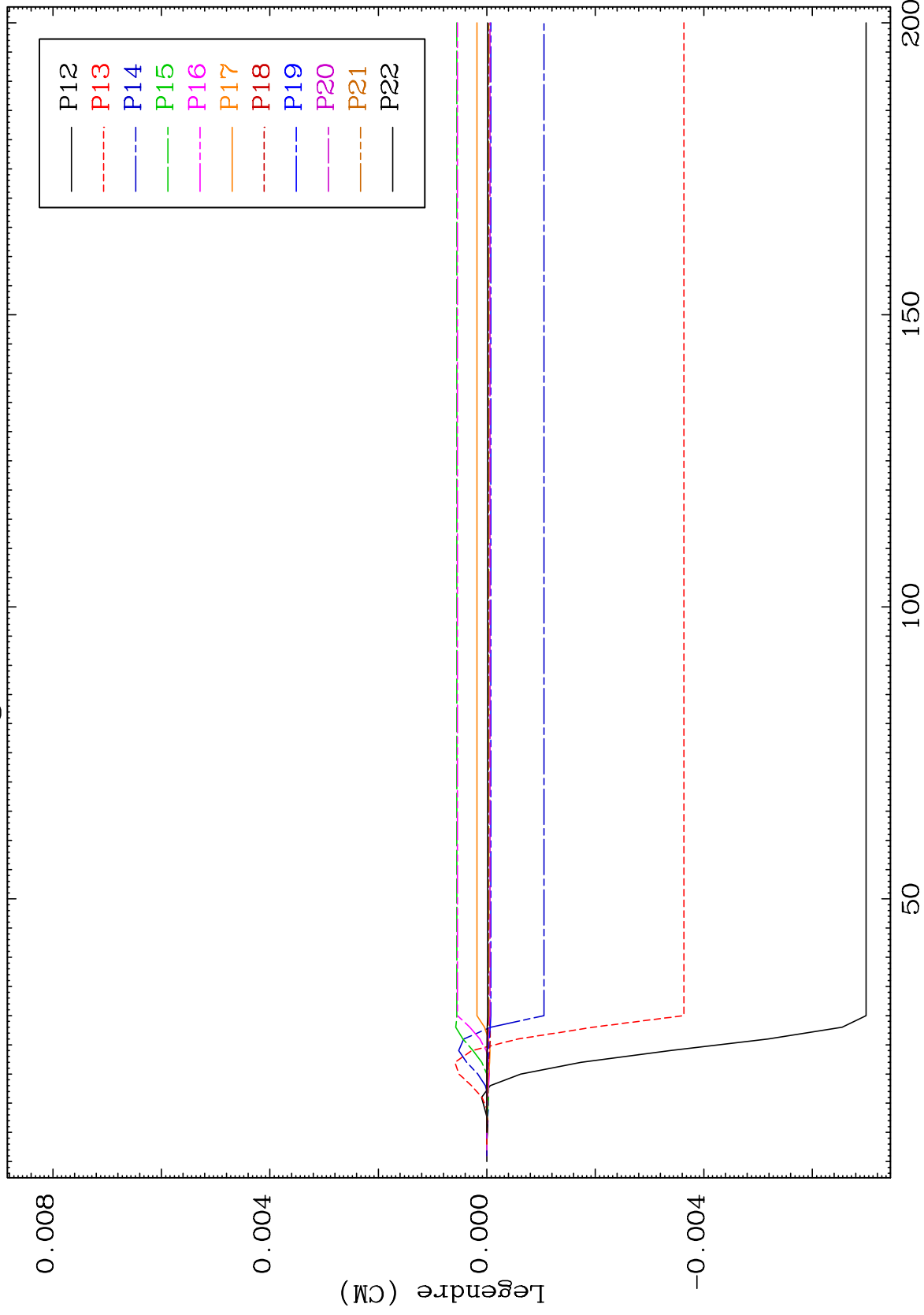
Incident Energy (MeV)

34-Se-83

MAT 3452

2.880 MeV (n,n') Level
Legendre Coefficients

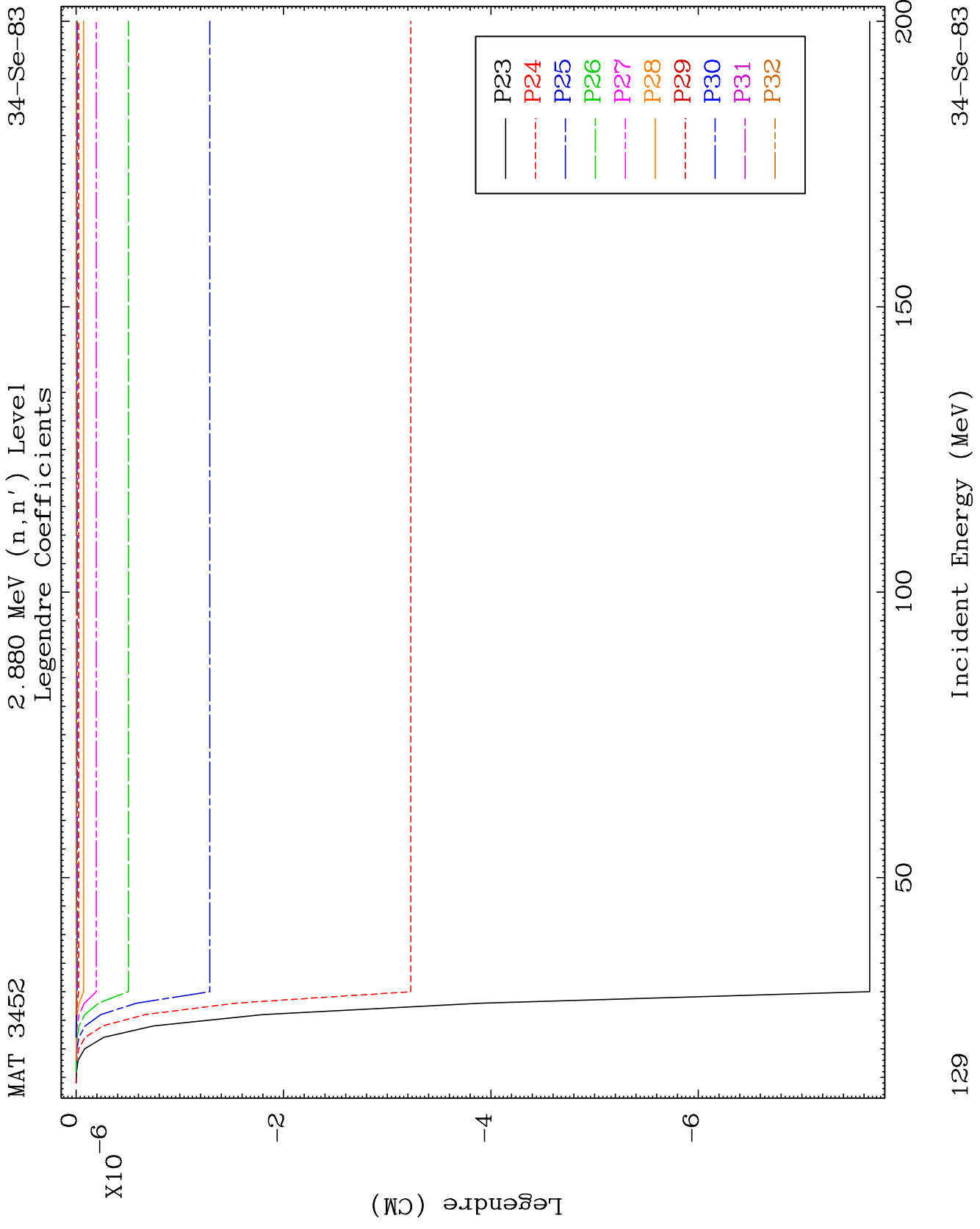
34-Se-83

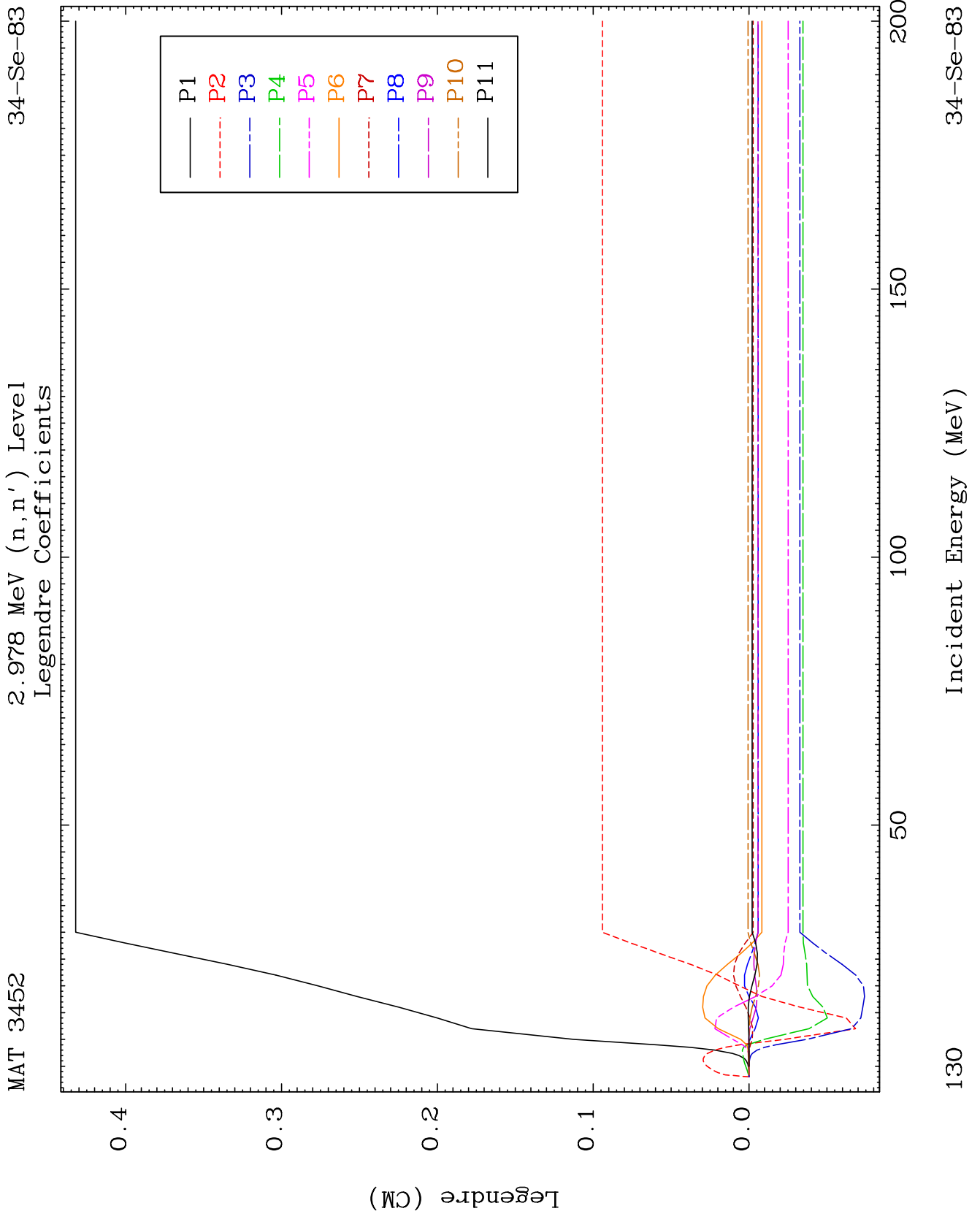


128

Incident Energy (MeV)

34-Se-83

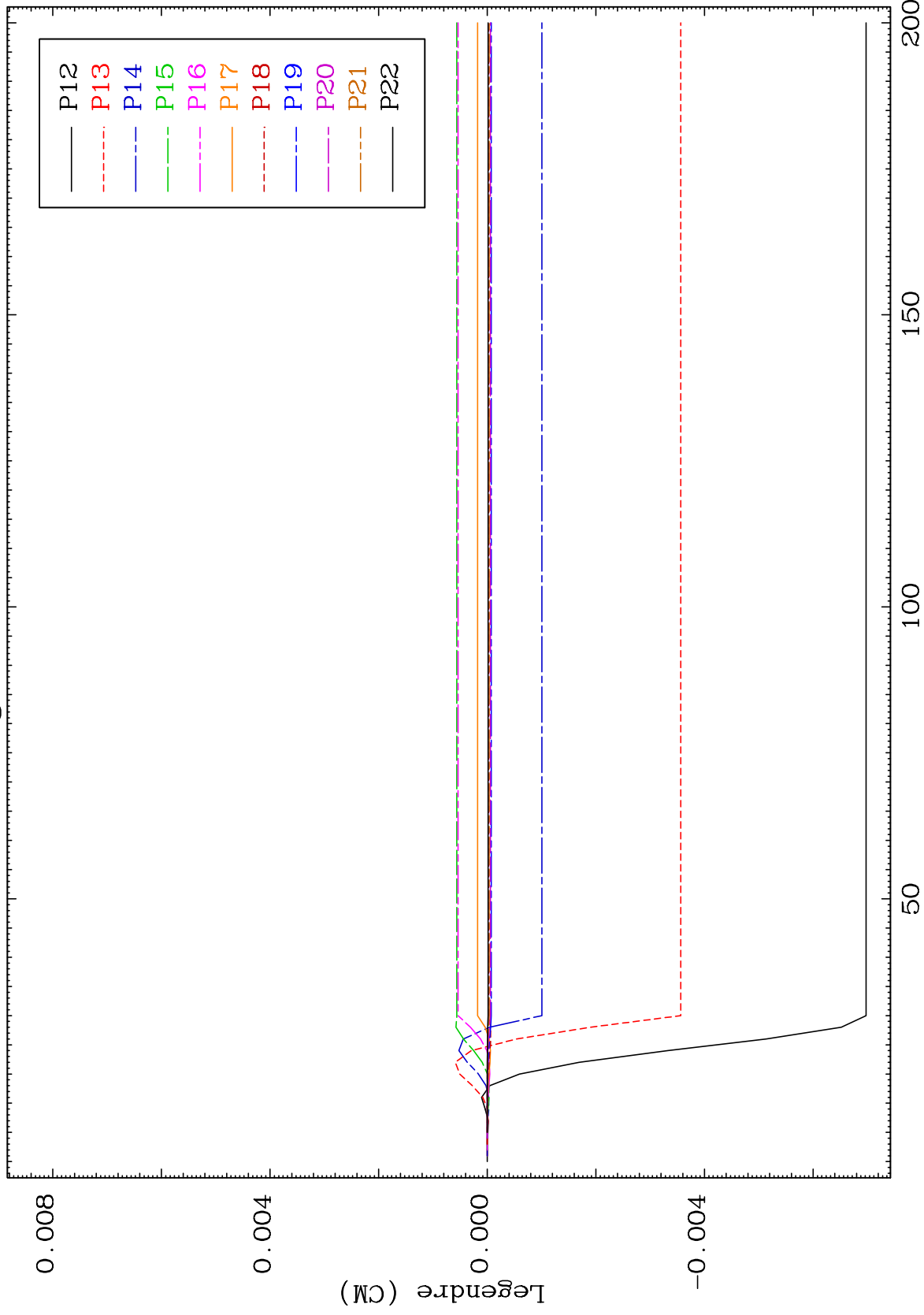




MAT 3452

2.978 MeV (n,n') Level
Legendre Coefficients

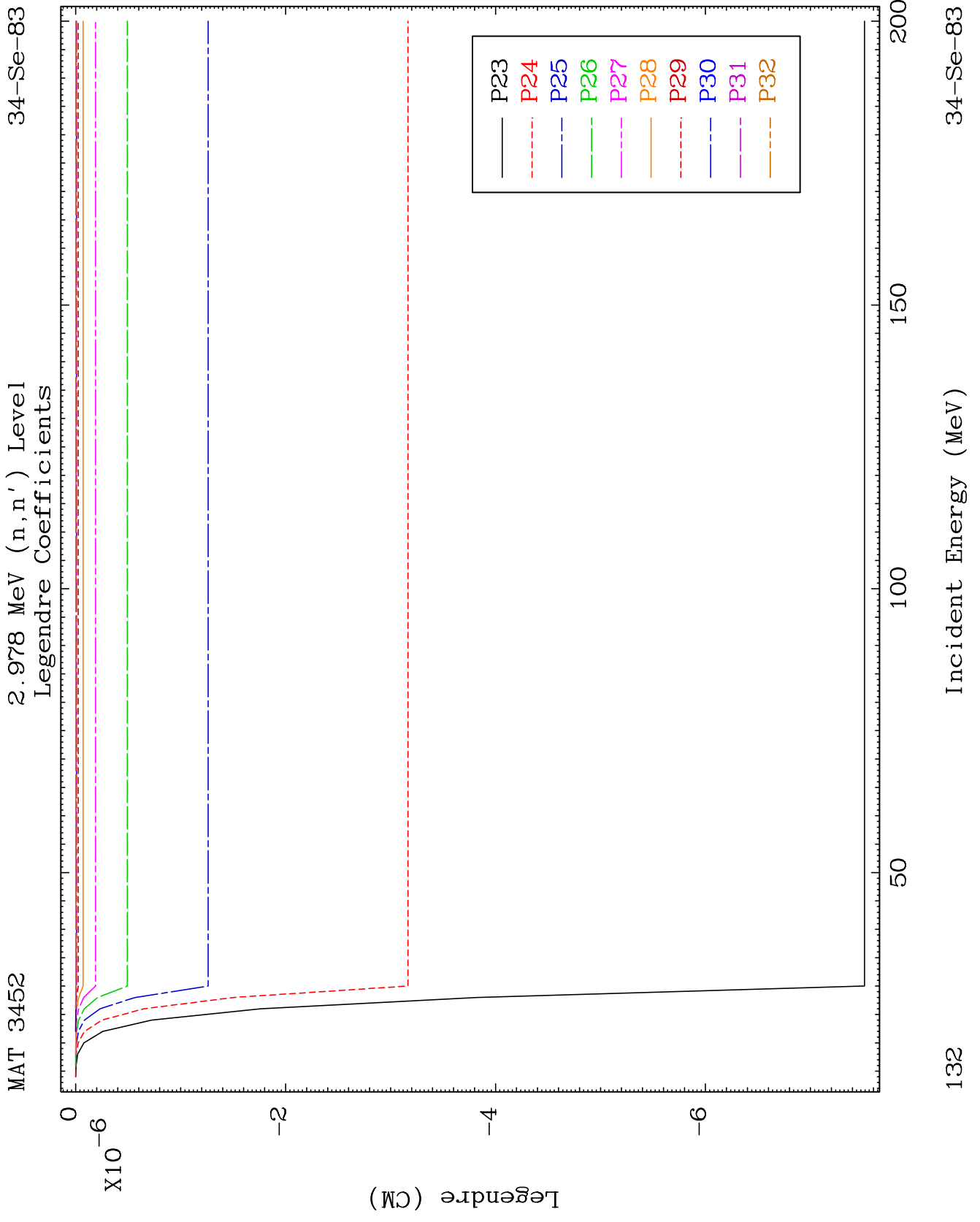
34-Se-83



131

Incident Energy (MeV)

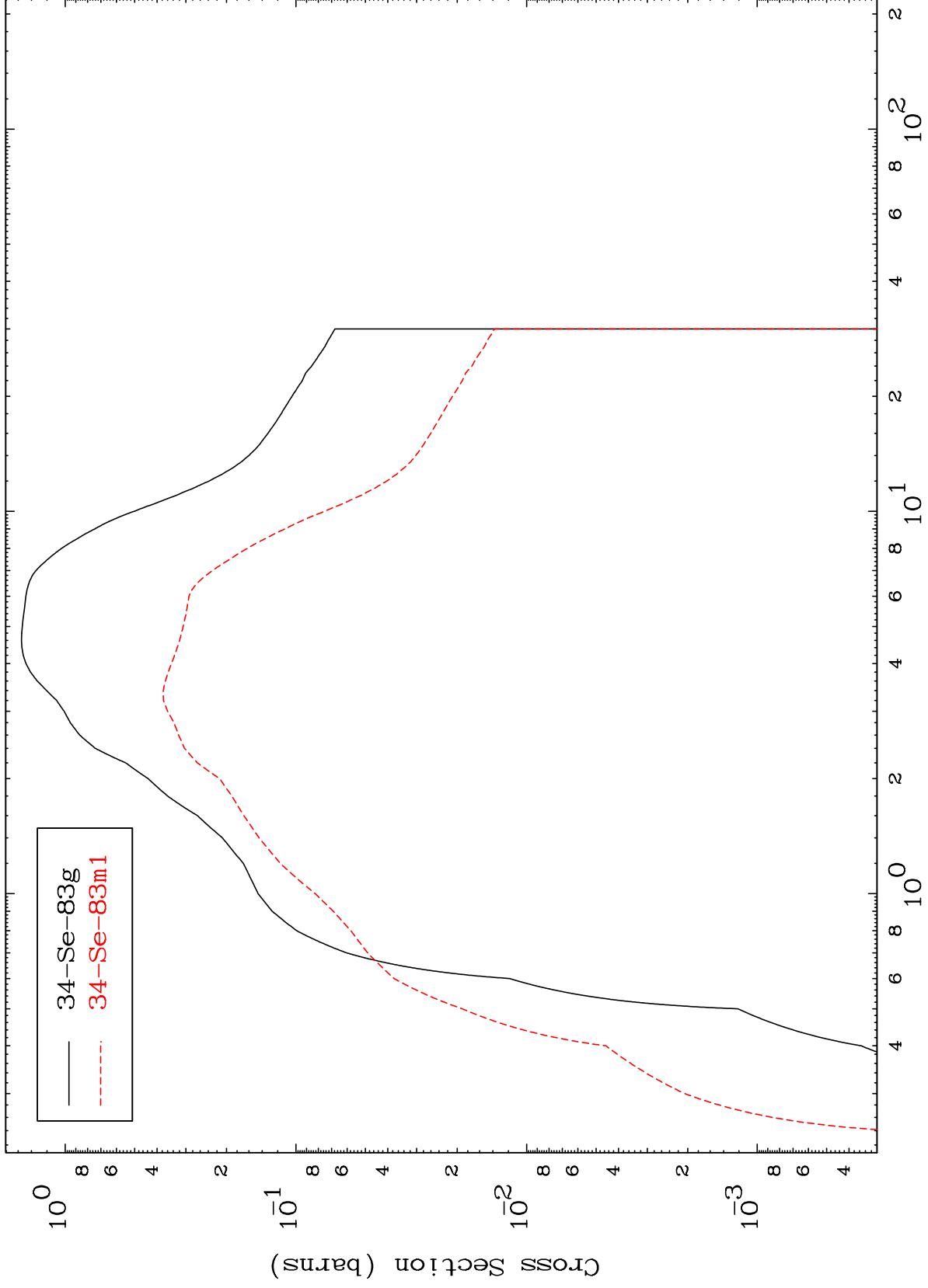
34-Se-83



MAT 3452

³⁴Se-83

Inelastic
Radionuclide Production Cross Section

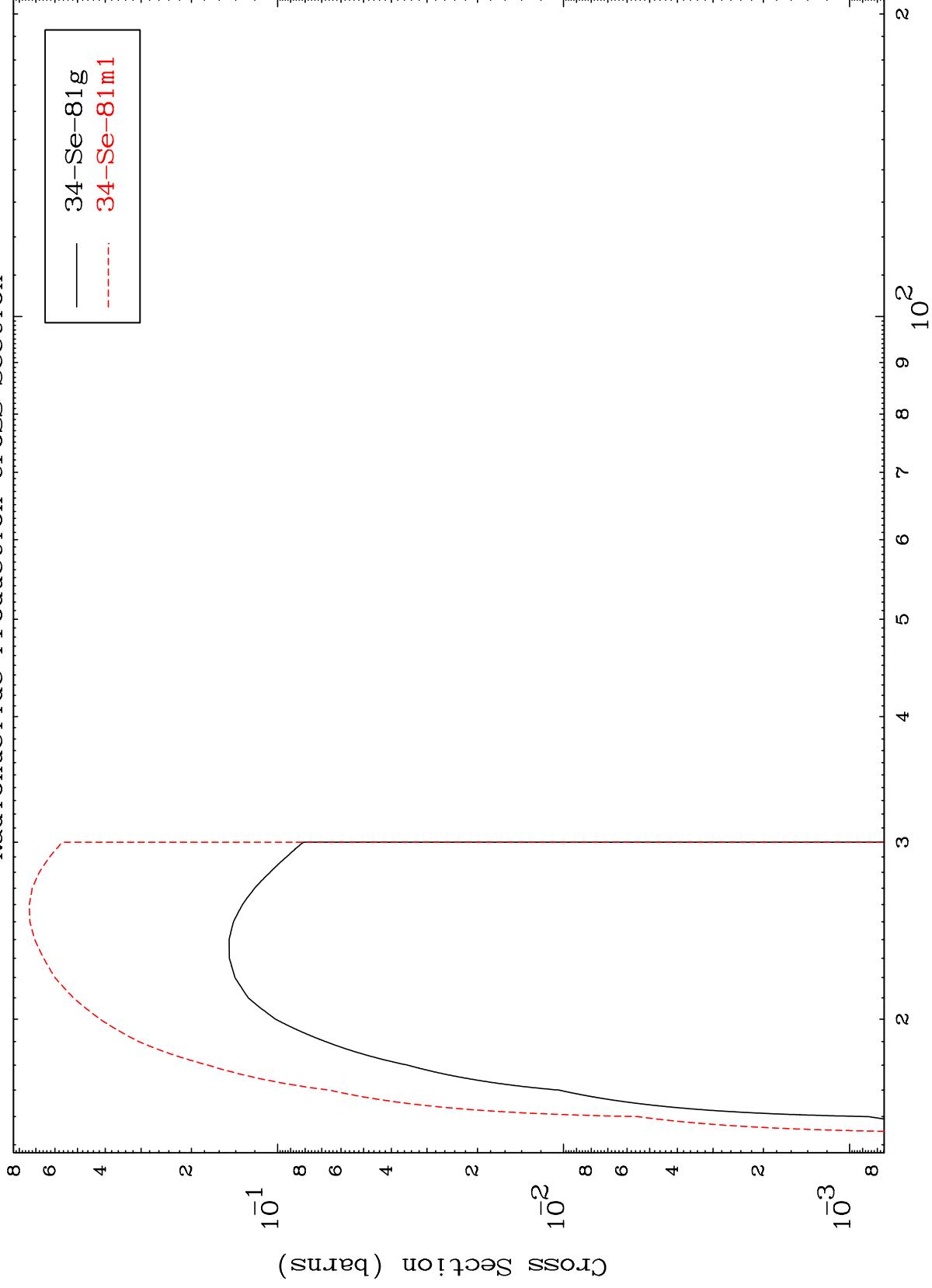


— 34-Se-83g
- - - 34-Se-83m1

MAT 3452

³⁴Se-83

(n,3n)
Radionuclide Production Cross Section



134

Incident Energy (MeV)

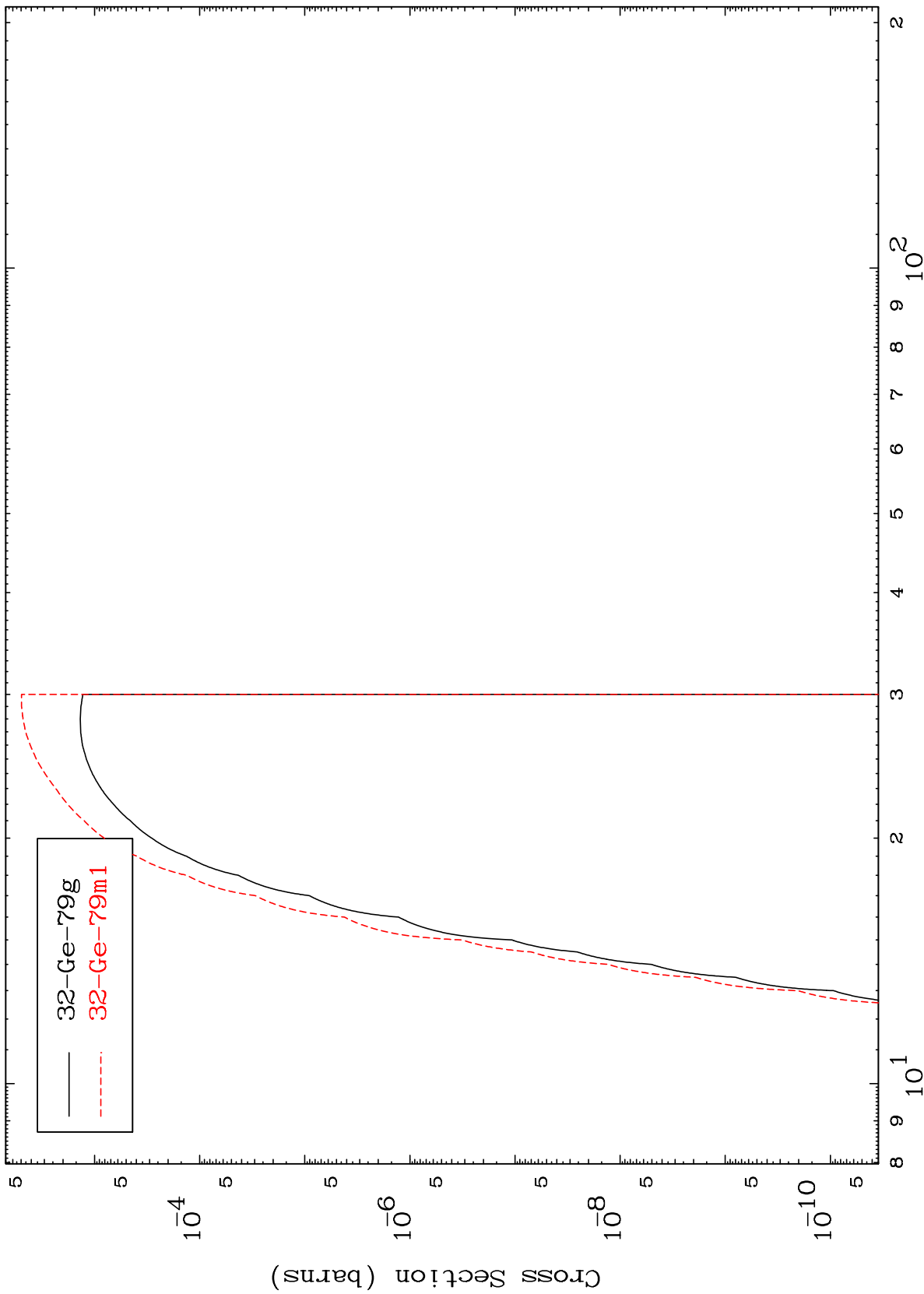
³⁴Se-83

MAT 3452

(n, n') α

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

Radionuclide Production Cross Section



135

Incident Energy (MeV)

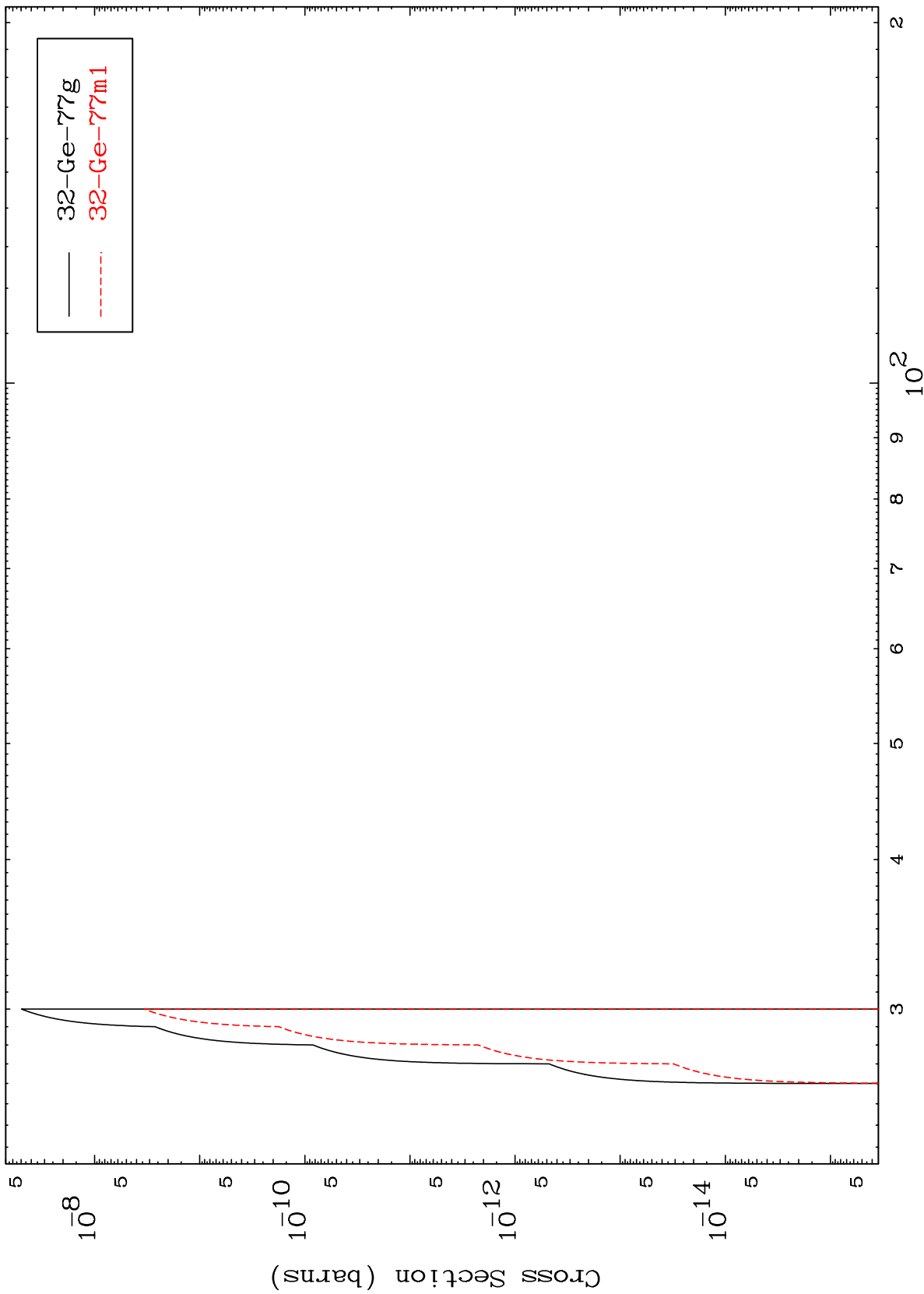
$^{34}\text{Se-83}$

MAT 3452

(n,3n) α

34-⁸³Se

Radionuclide Production Cross Section



136

Incident Energy (MeV)

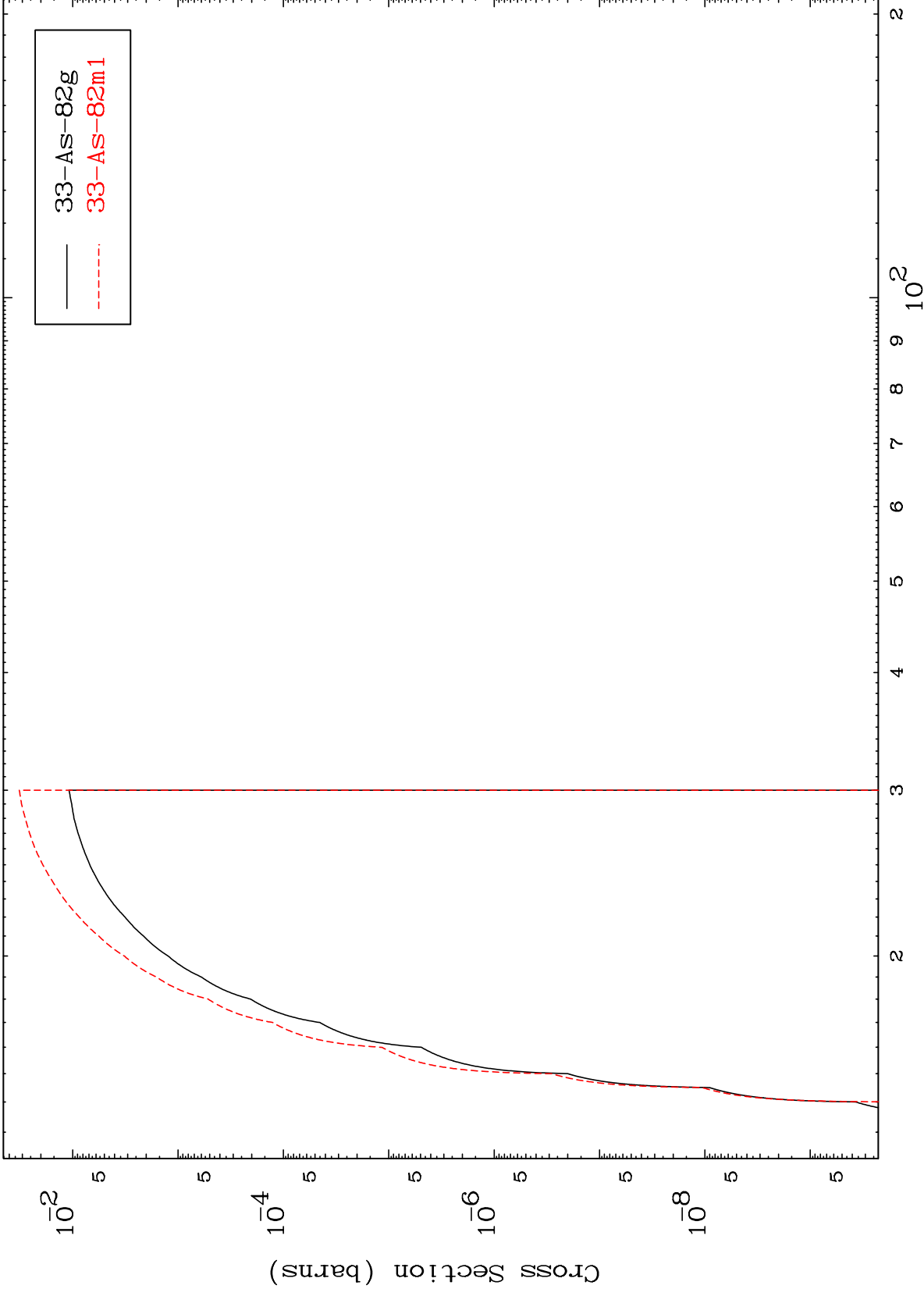
34-⁸³Se

MAT 3452

(n,n') p

34-Se-83

Radionuclide Production Cross Section



33-As-82g
33-As-82m1

137

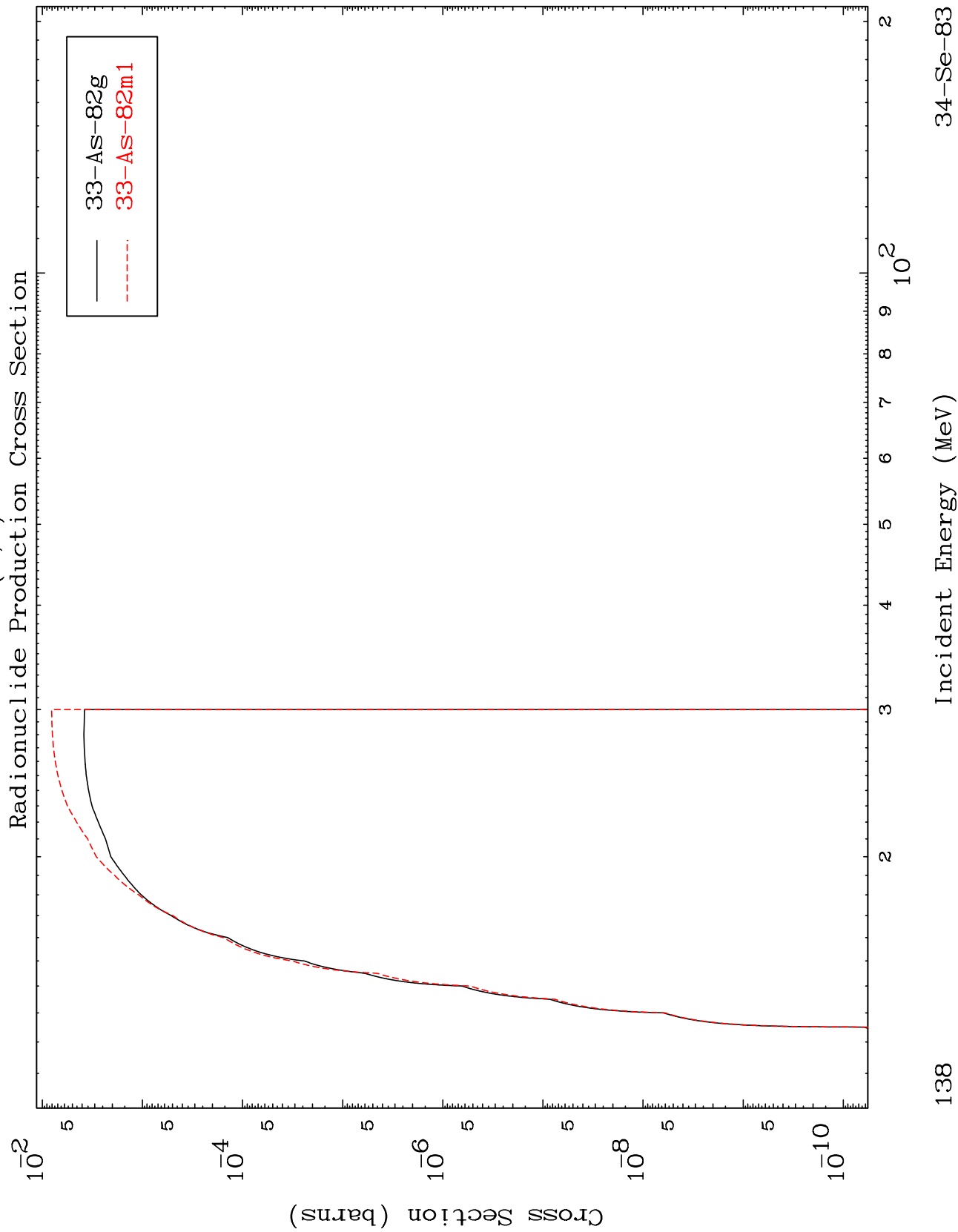
Incident Energy (MeV)

34-Se-83

MAT 3452

(n,d)

34-Se-83



138

34-Se-83

