

Program EVALPLOT
(Version 2015-2)

by

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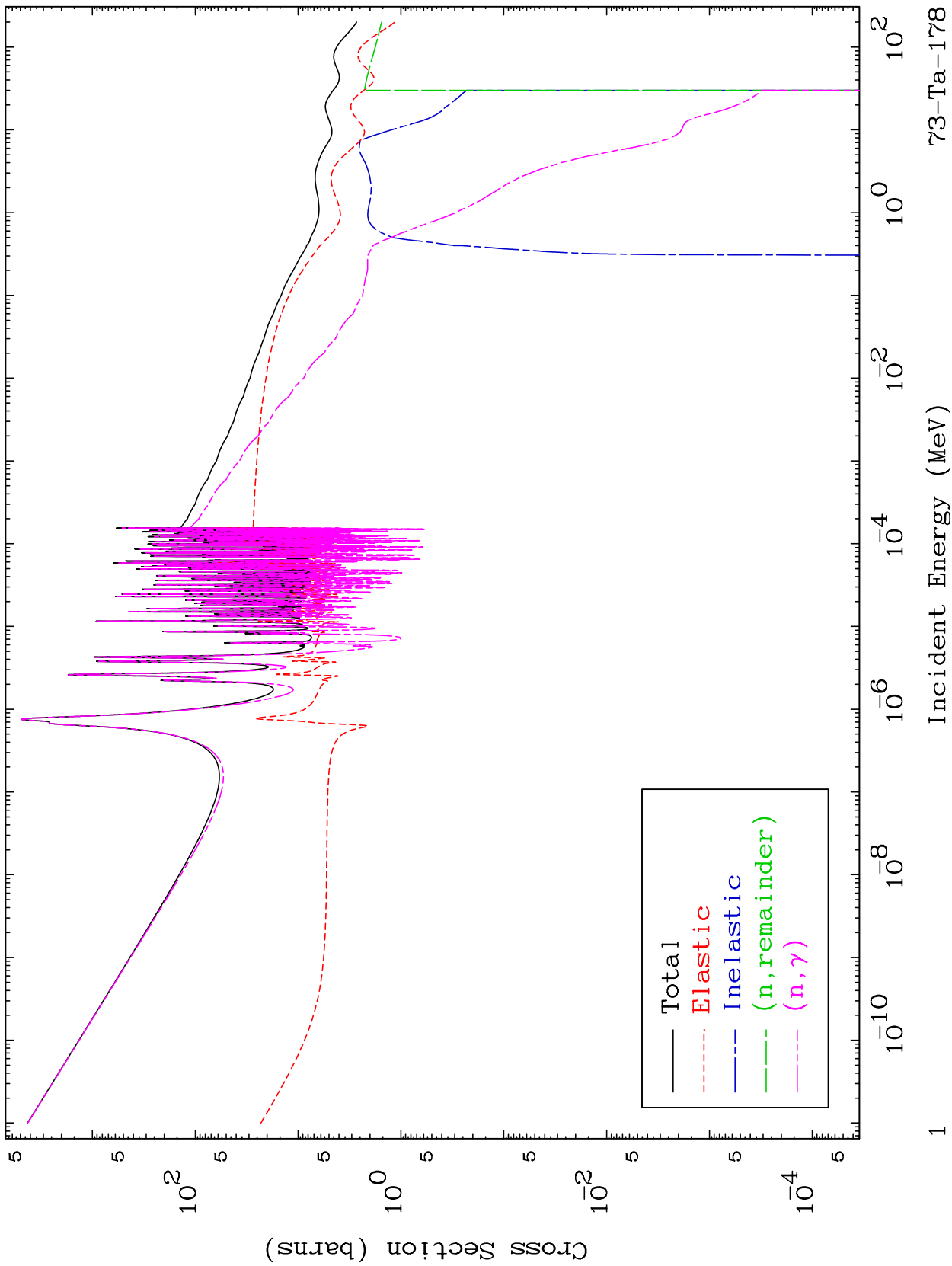
Press Mouse Button to Start

MAT 7319

Major

293 Kelvin Cross Sections

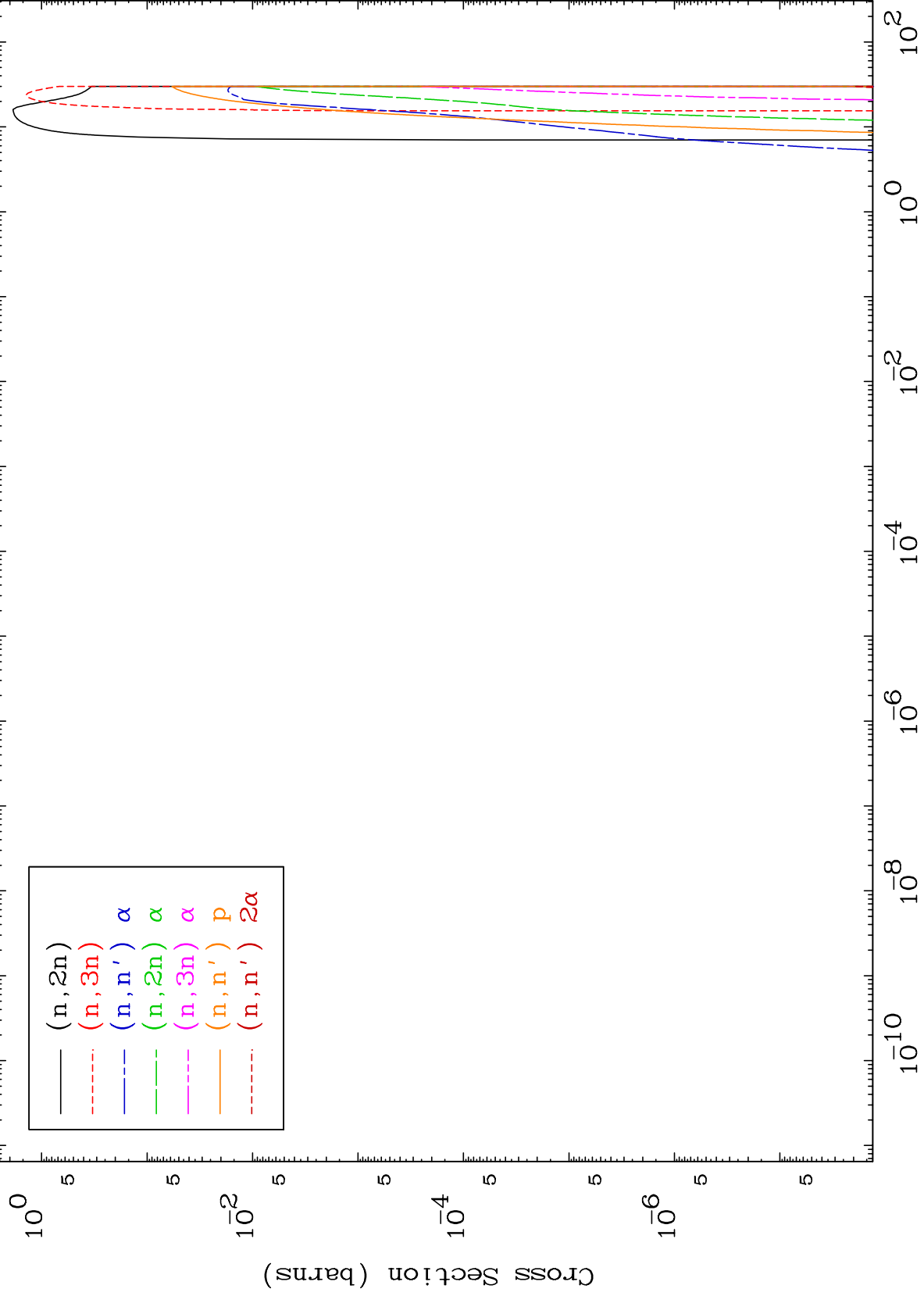
73-Ta-178



MAT 7319

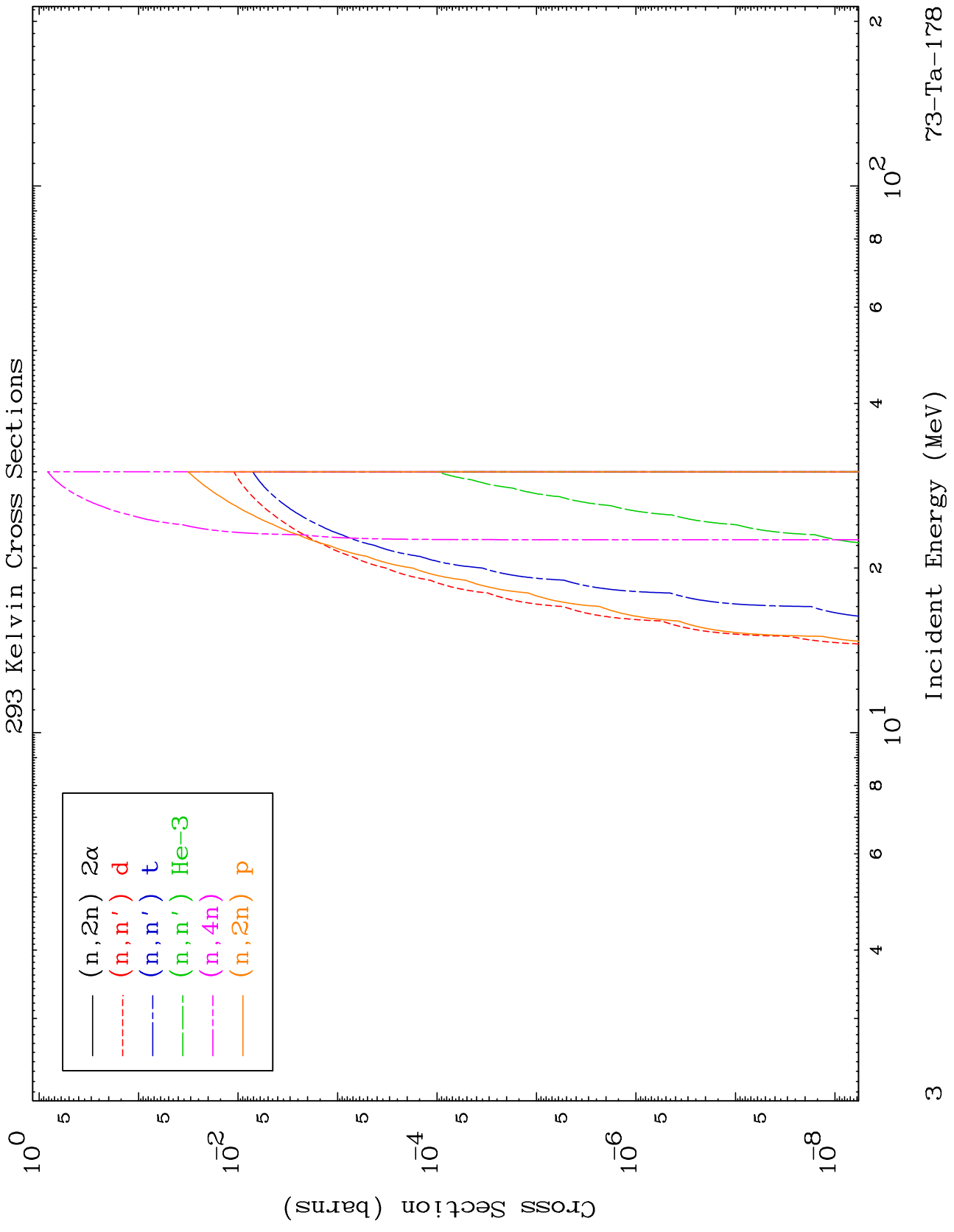
Neutron Production
293 Kelvin Cross Sections

73-Ta-178



73-Ta-178

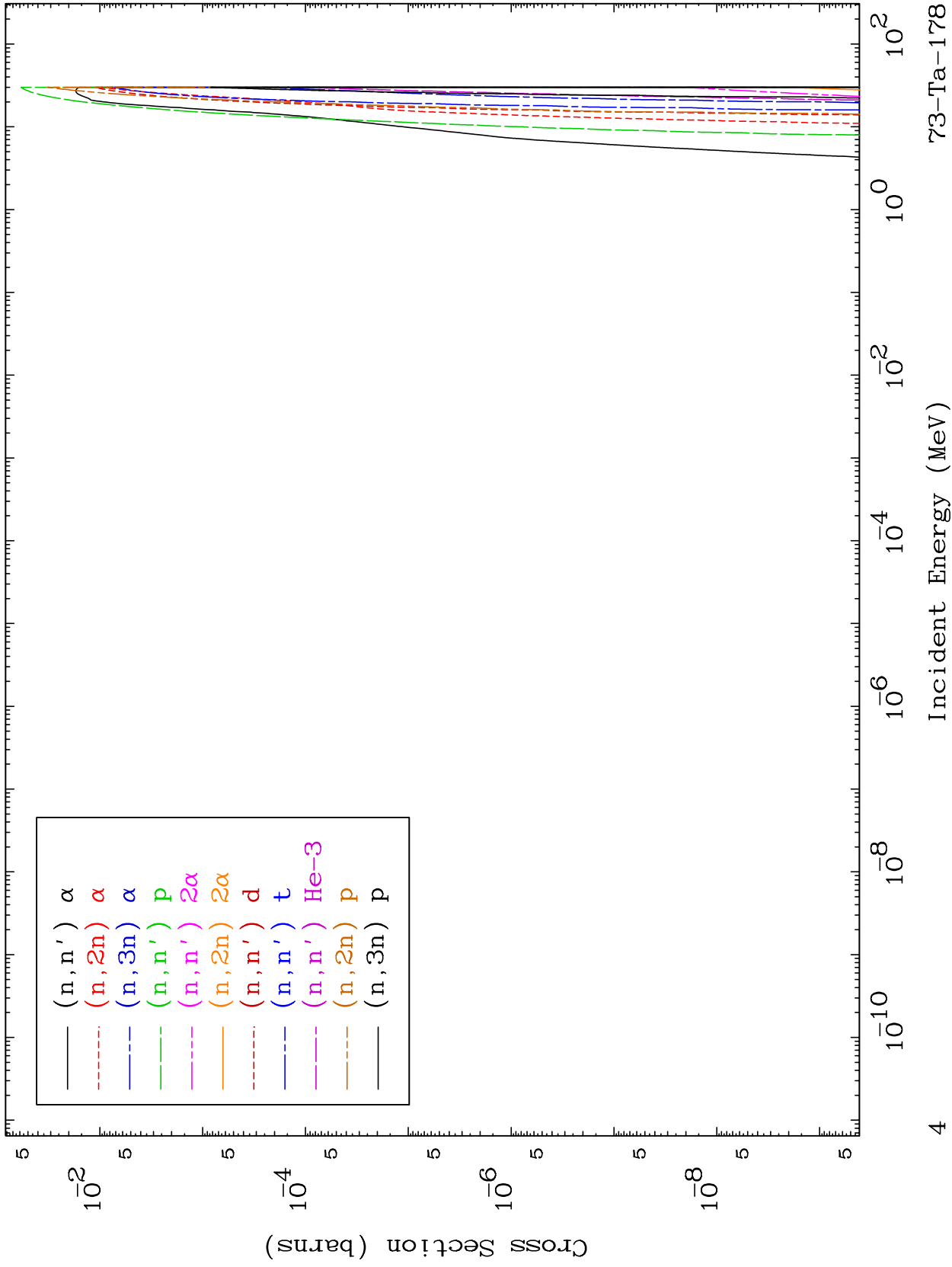
Incident Energy (MeV)



MAT 7319

Charged Particle
293 Kelvin Cross Sections

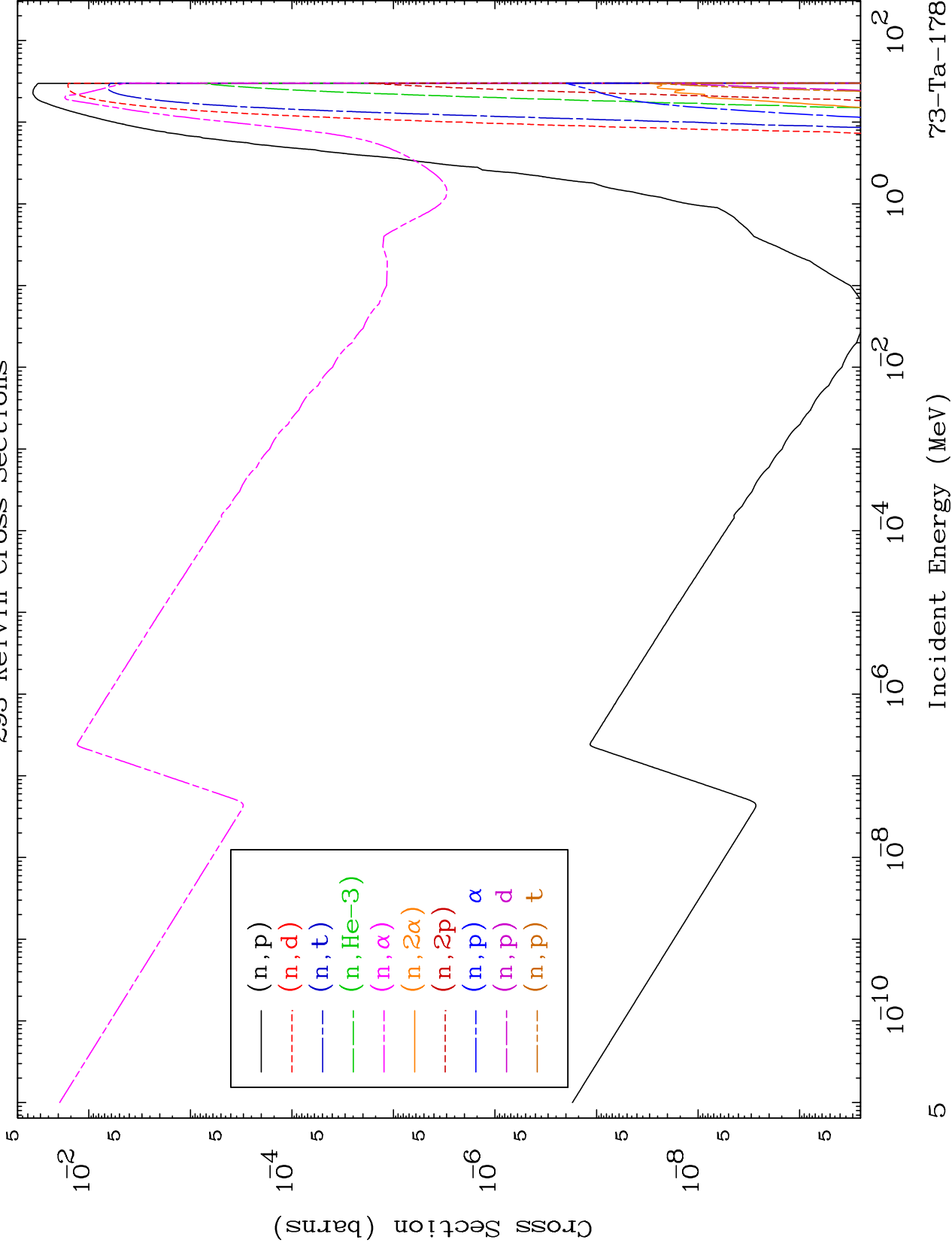
73-Ta-178



MAT 7319

Charged Particle
293 Kelvin Cross Sections

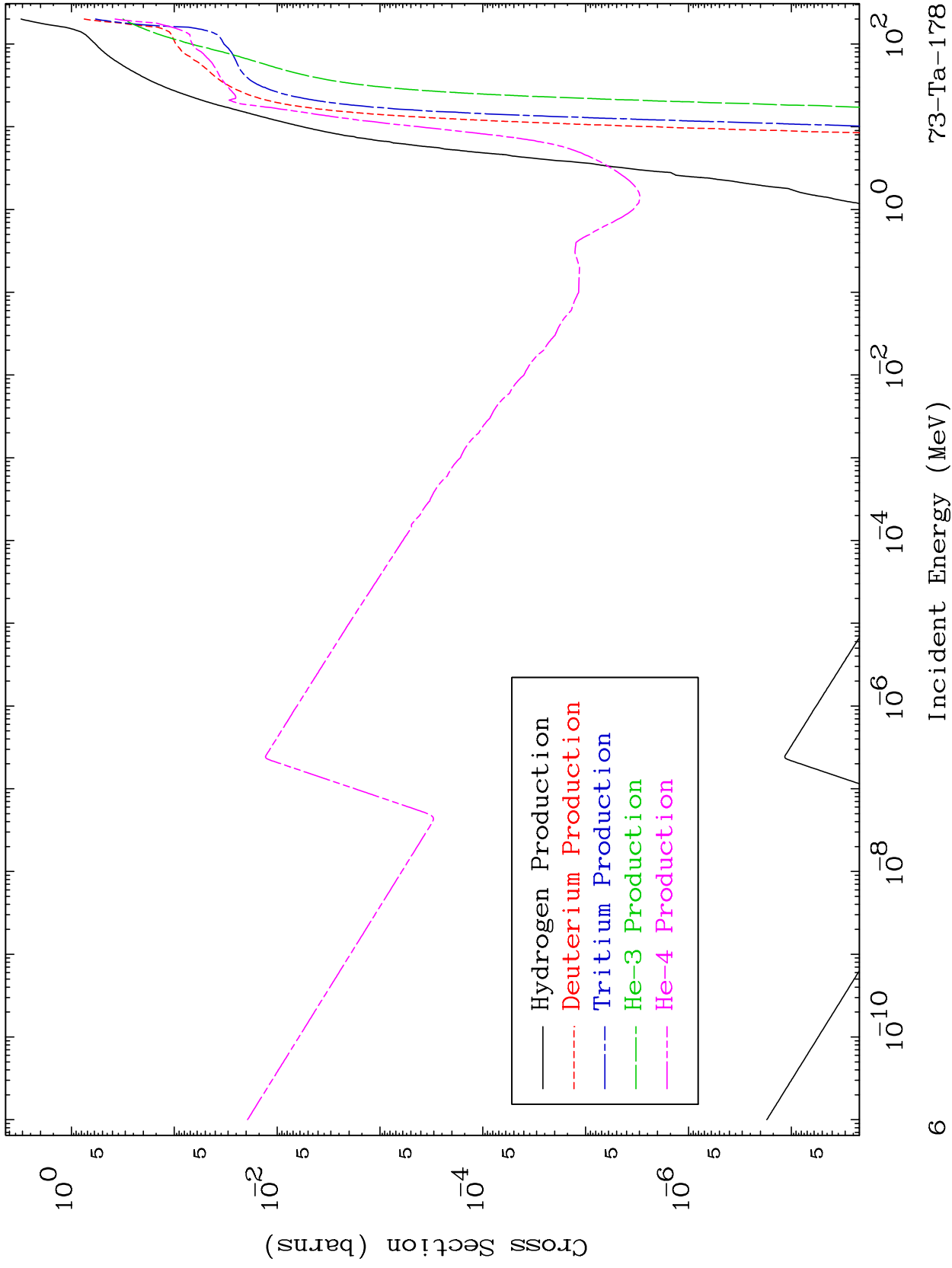
73-Ta-178



MAT 7319

Particle Production
293 Kelvin Cross Sections

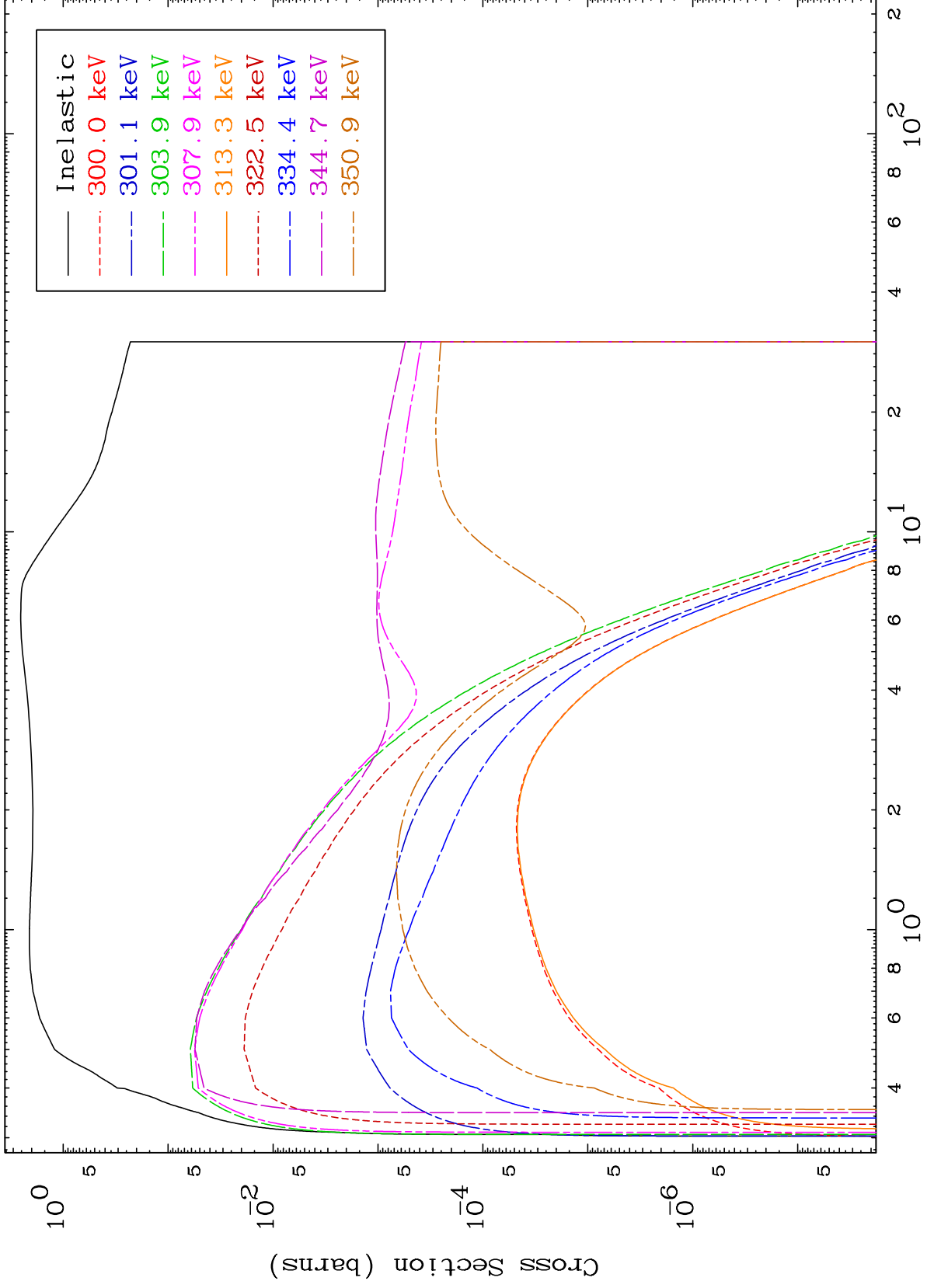
73-Ta-178



MAT 7319

(n,n') Level
293 Kelvin Cross Sections

73-Ta-178

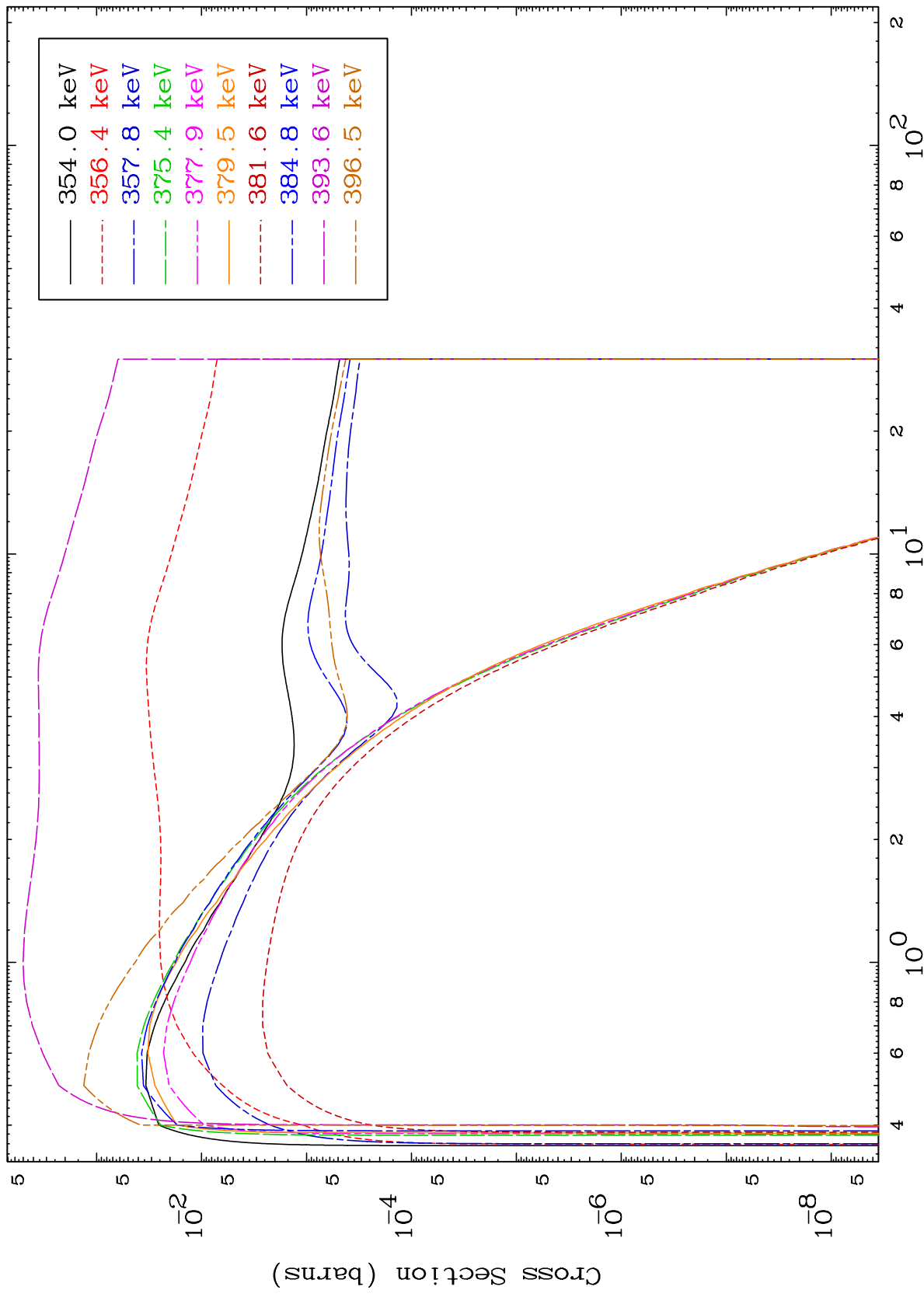


MAT 7319

(n,n') Level

73-Ta-178

293 Kelvin Cross Sections



8

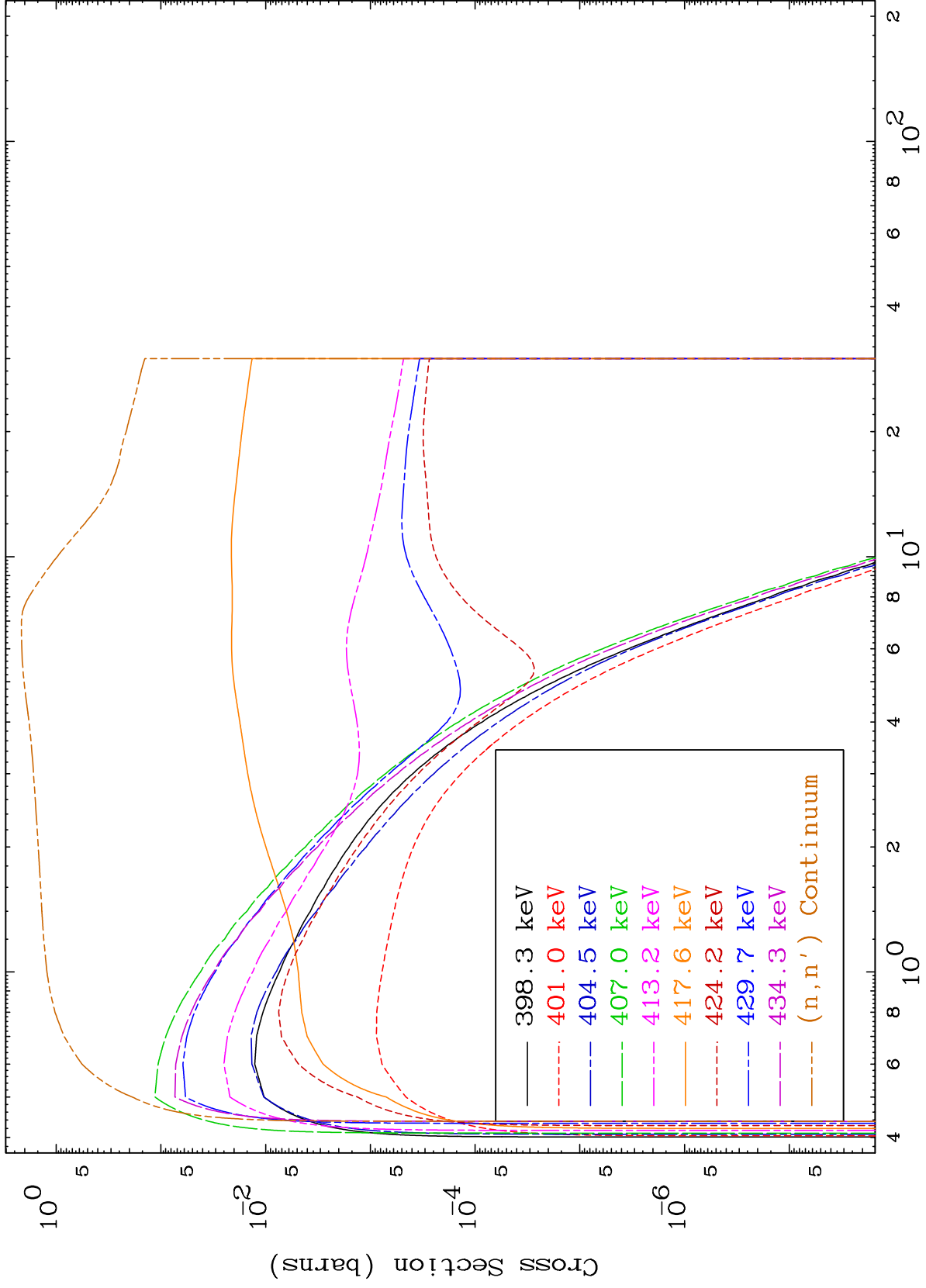
Incident Energy (MeV)

73-Ta-178

MAT 7319

(n,n') Level
293 Kelvin Cross Sections

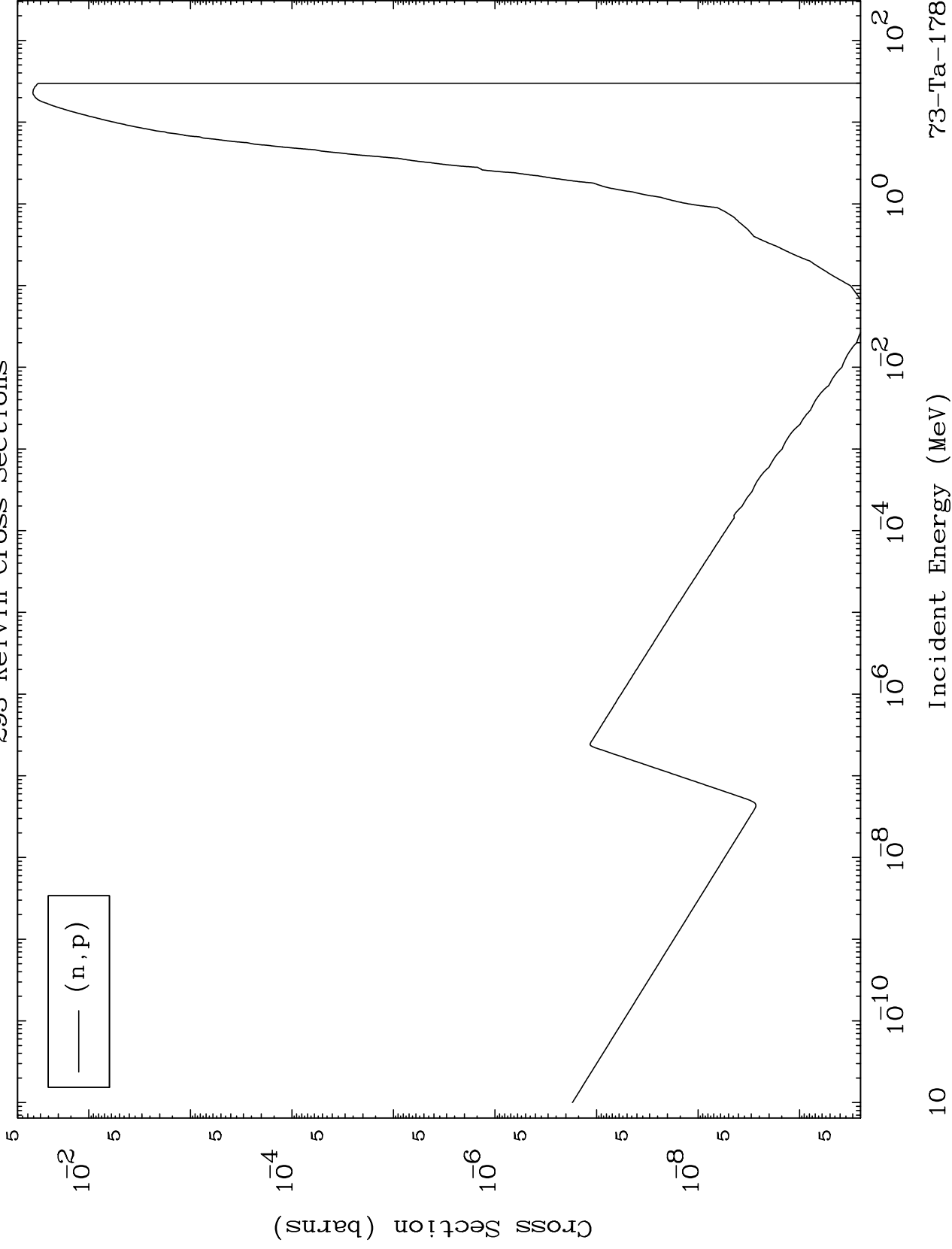
73-Ta-178



MAT 7319

(n,p) Levels
293 Kelvin Cross Sections

73-Ta-178



10

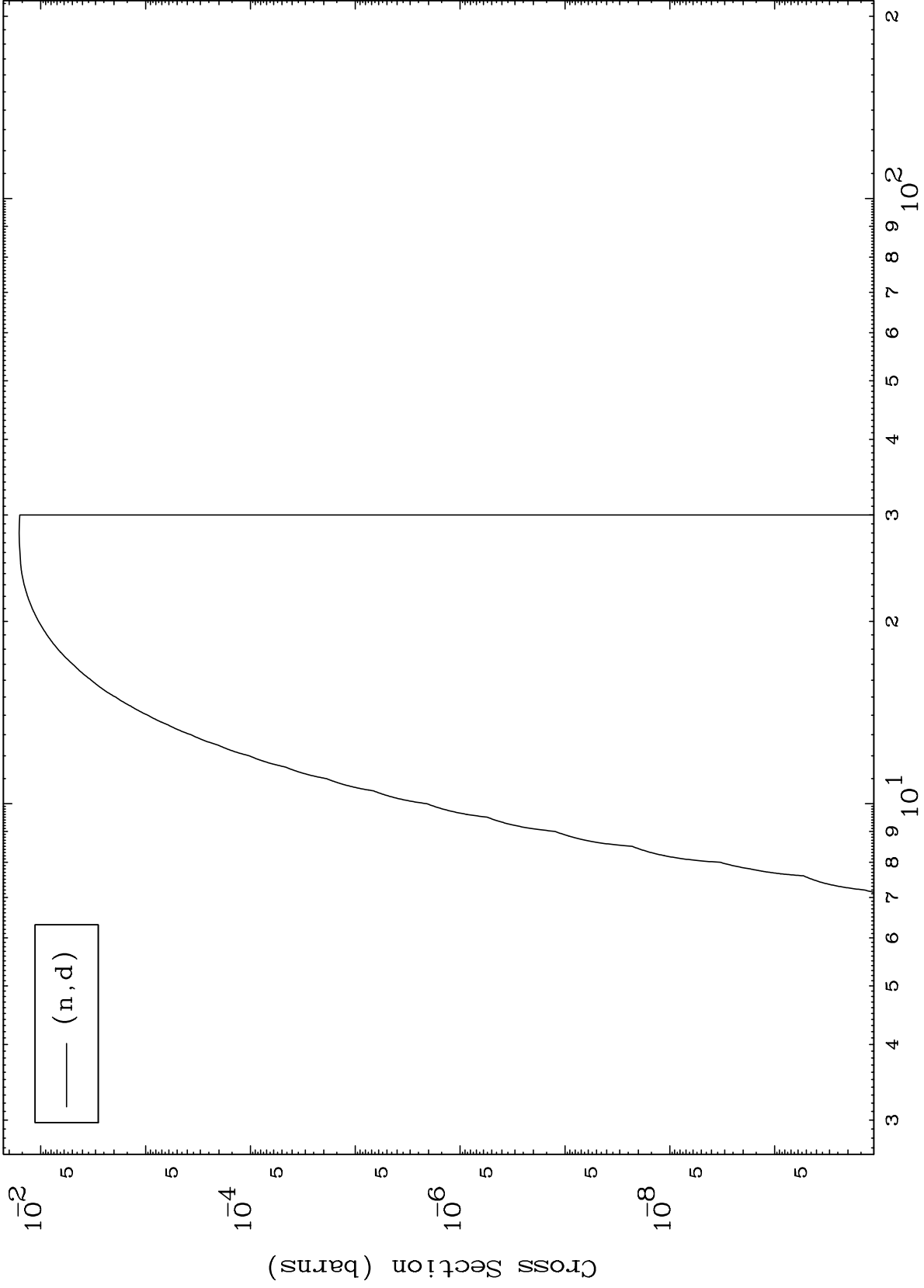
Incident Energy (MeV)

73-Ta-178

MAT 7319

(n,d) Levels
293 Kelvin Cross Sections

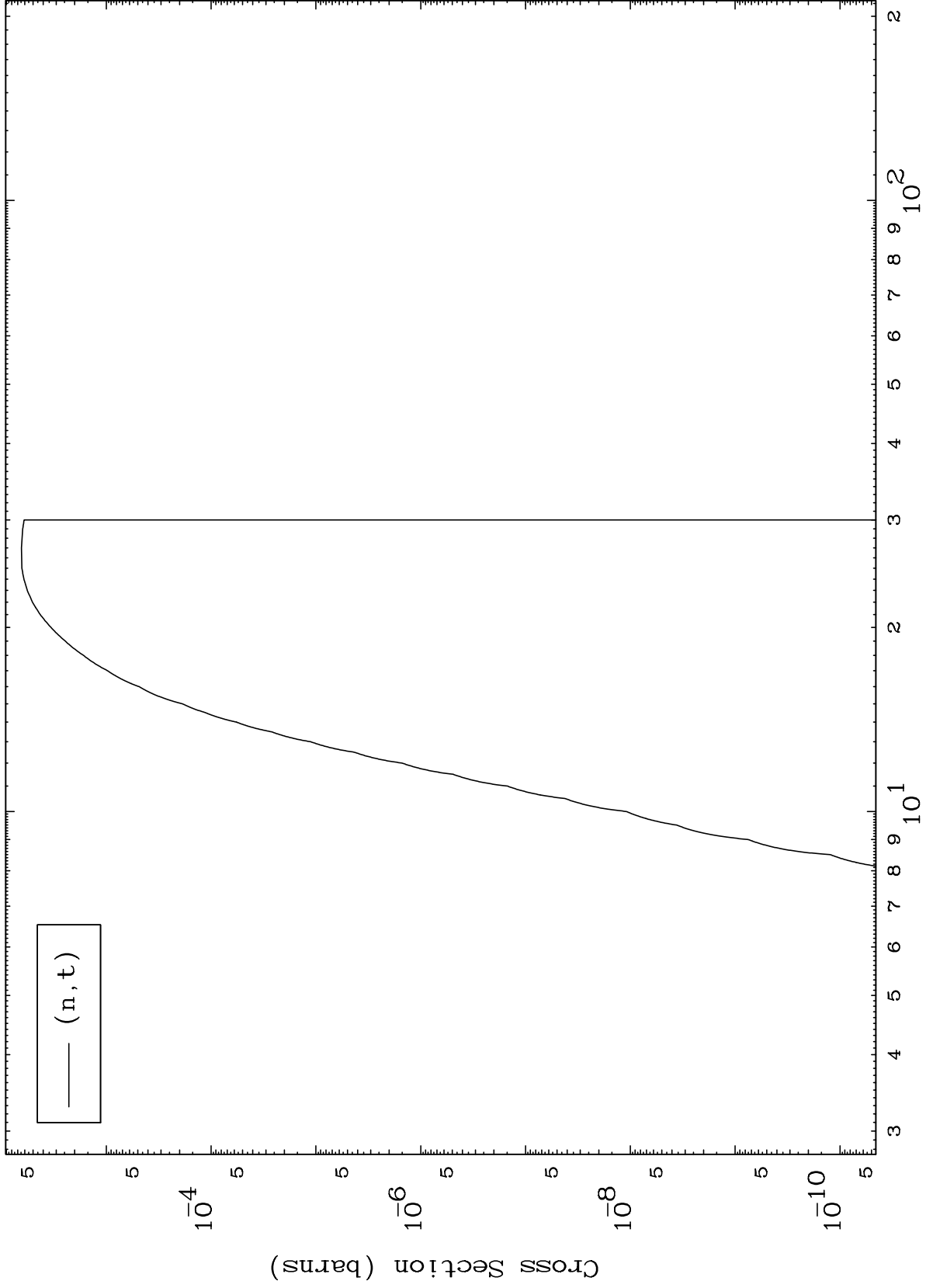
⁷³Ta-178



MAT 7319

(n,t) Levels
293 Kelvin Cross Sections

73-Ta-178



12

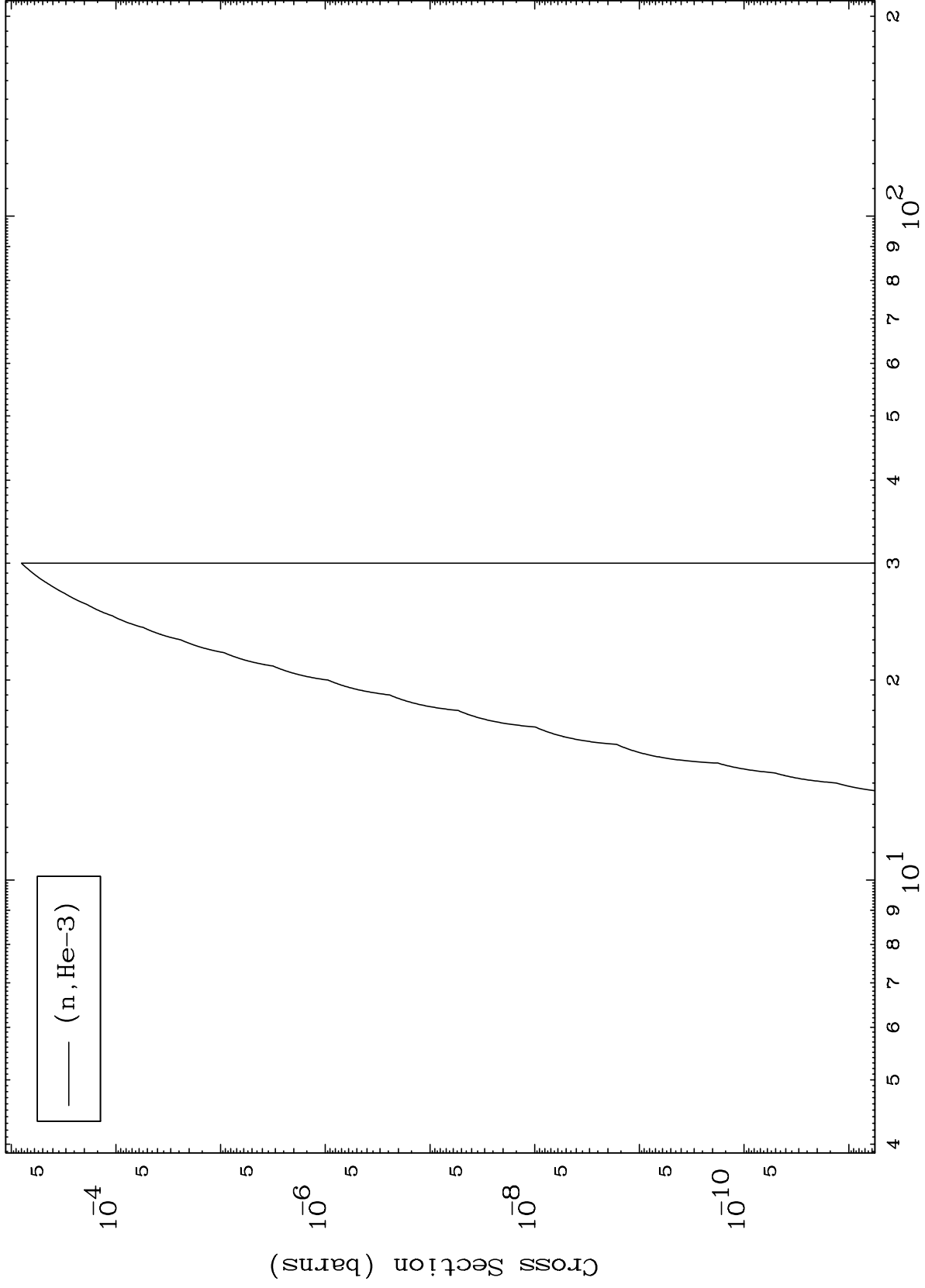
Incident Energy (MeV)

73-Ta-178

MAT 7319

(n,He3) Levels
293 Kelvin Cross Sections

73-Ta-178



13

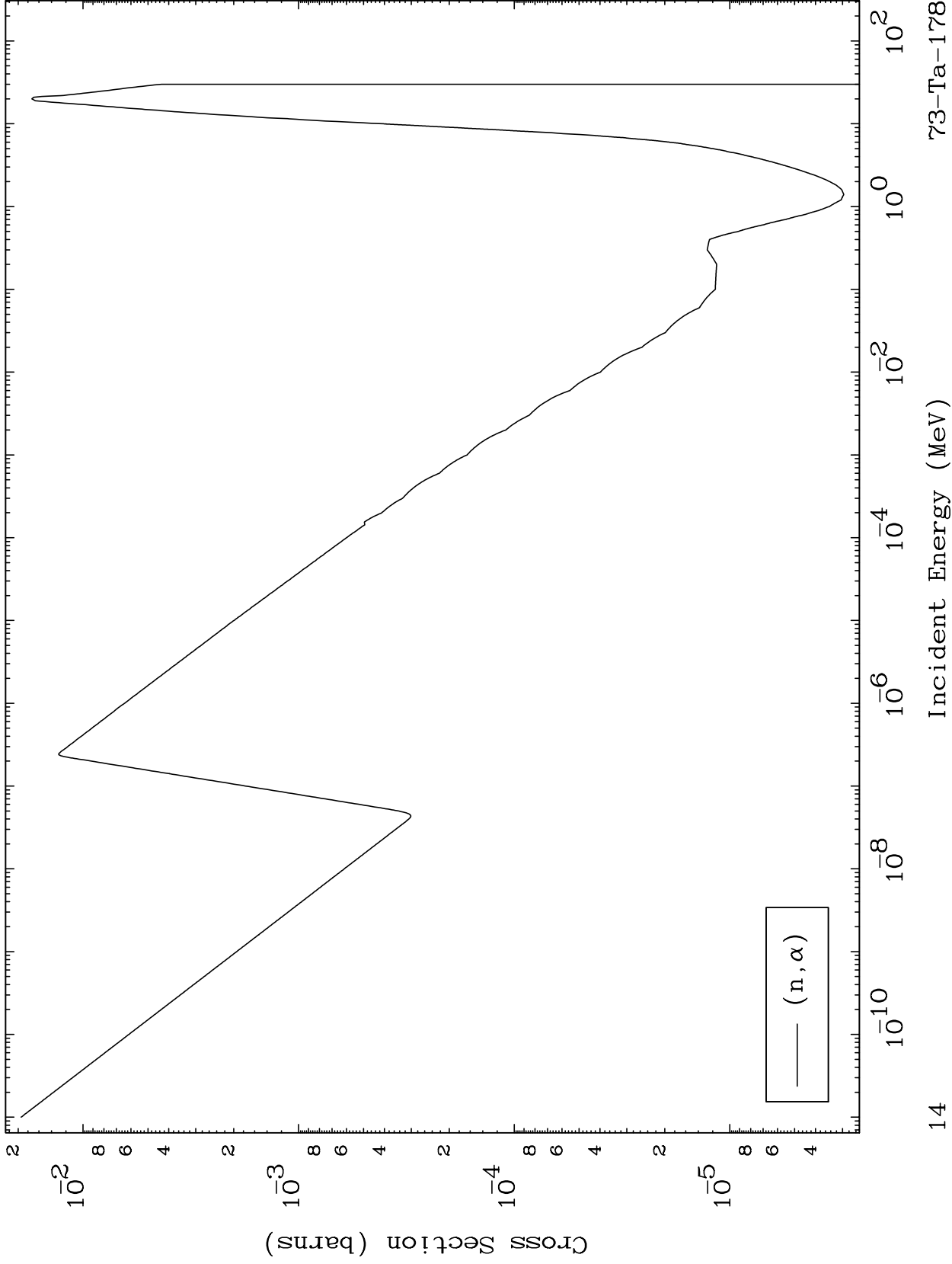
Incident Energy (MeV)

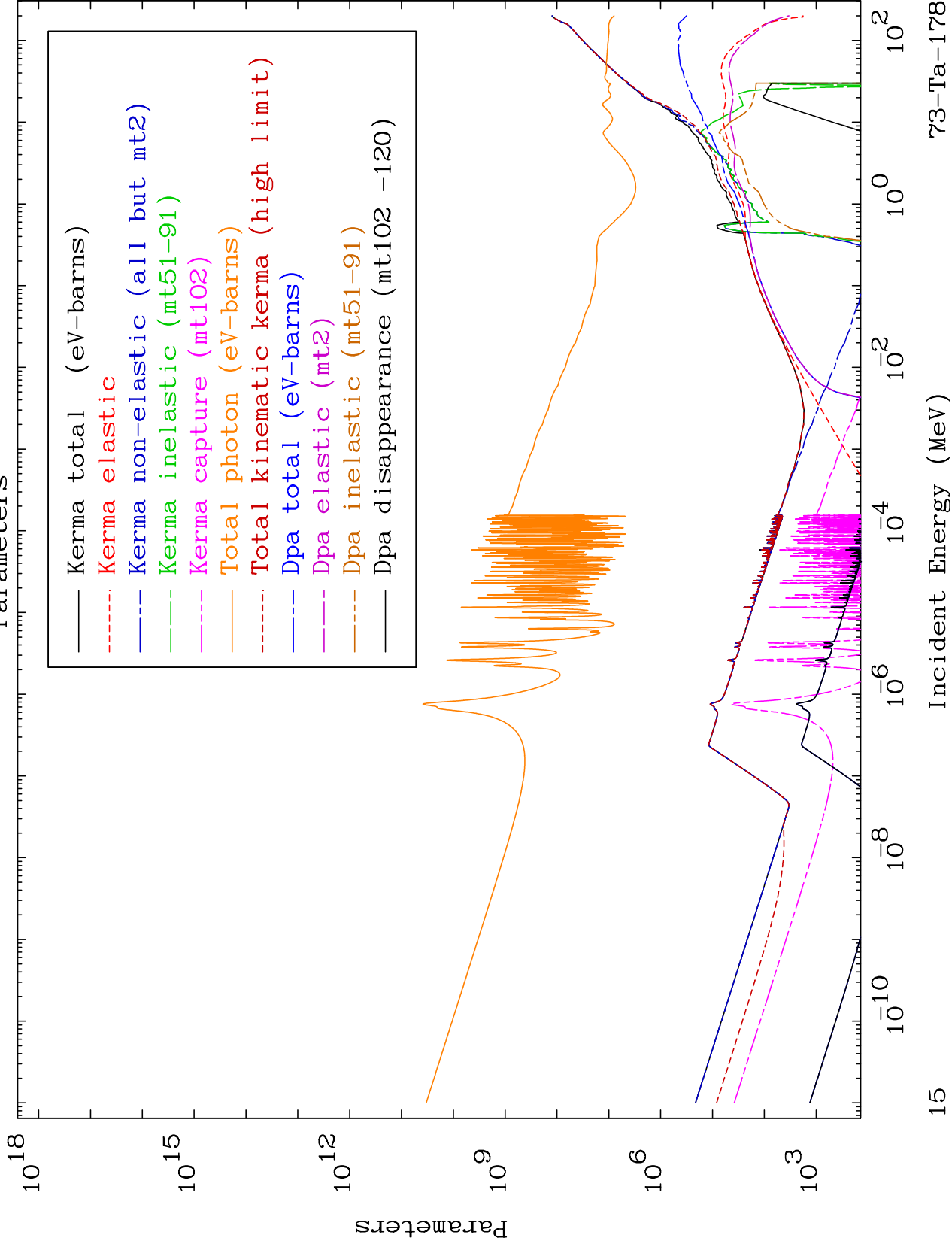
73-Ta-178

MAT 7319

(n,α) Levels
293 Kelvin Cross Sections

73-Ta-178

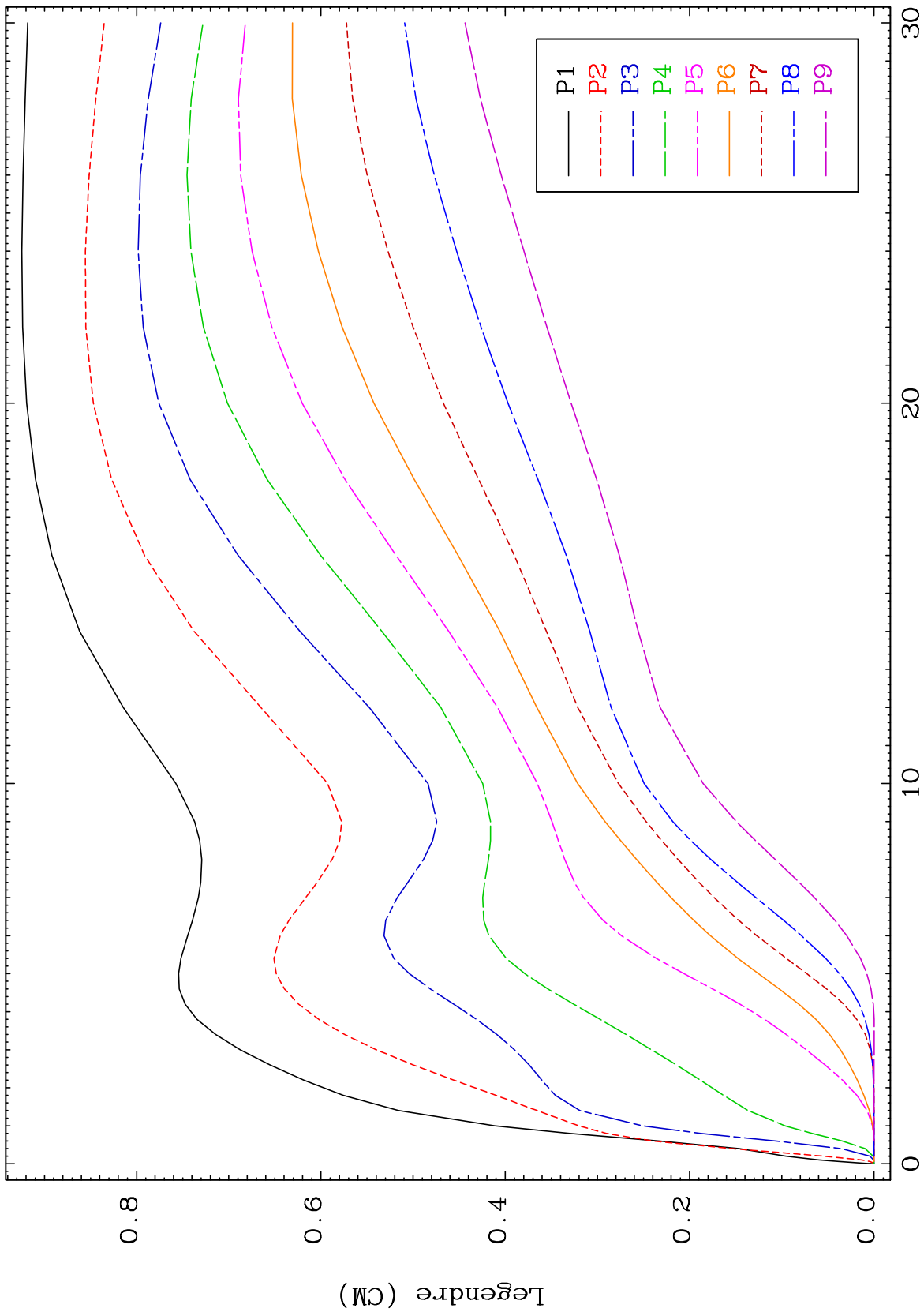




MAT 7319

Elastic Legendre Coefficients

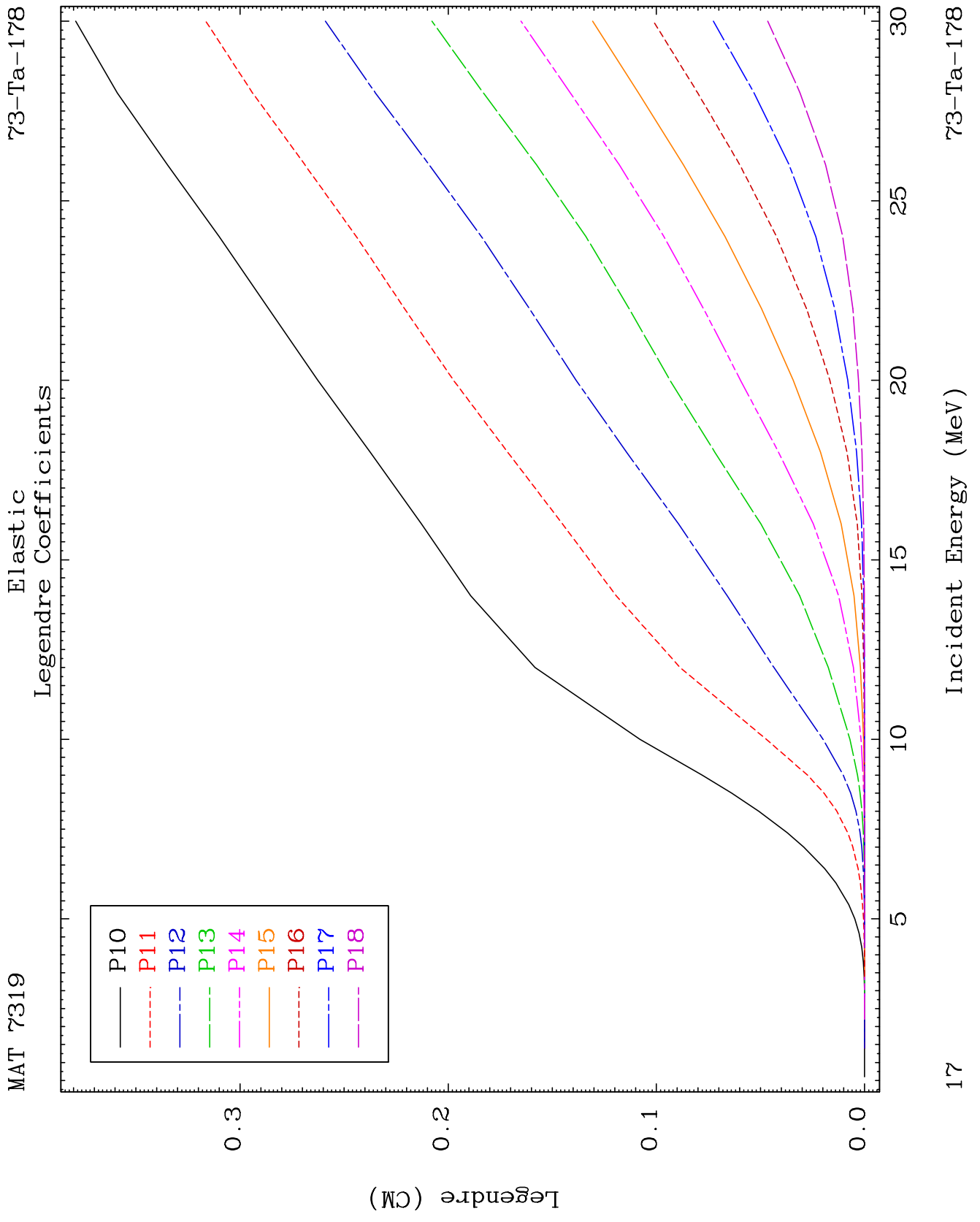
⁷³Ta-178



16

Incident Energy (MeV)

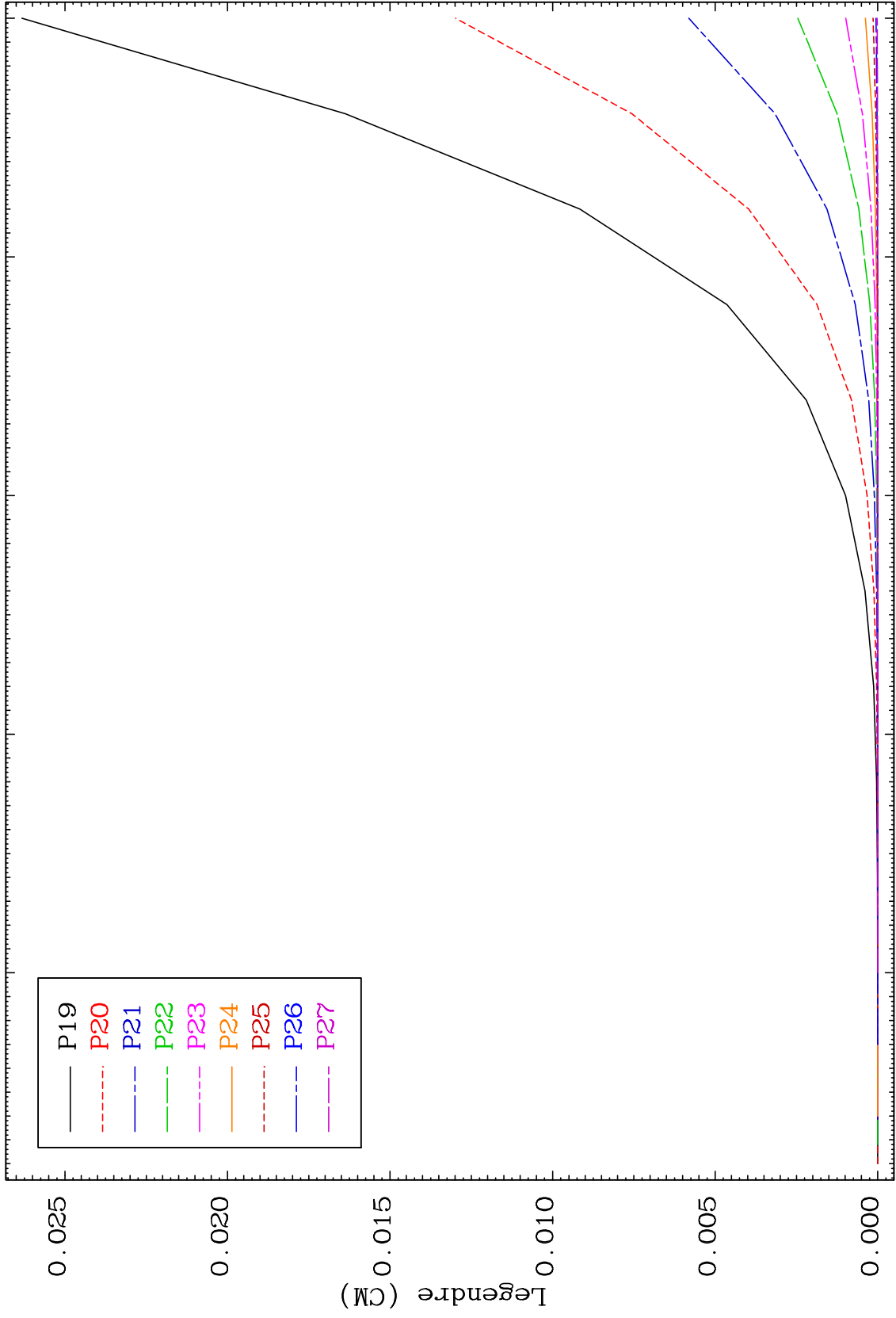
⁷³Ta-178



MAT 7319

Elastic Legendre Coefficients

73-Ta-178



18

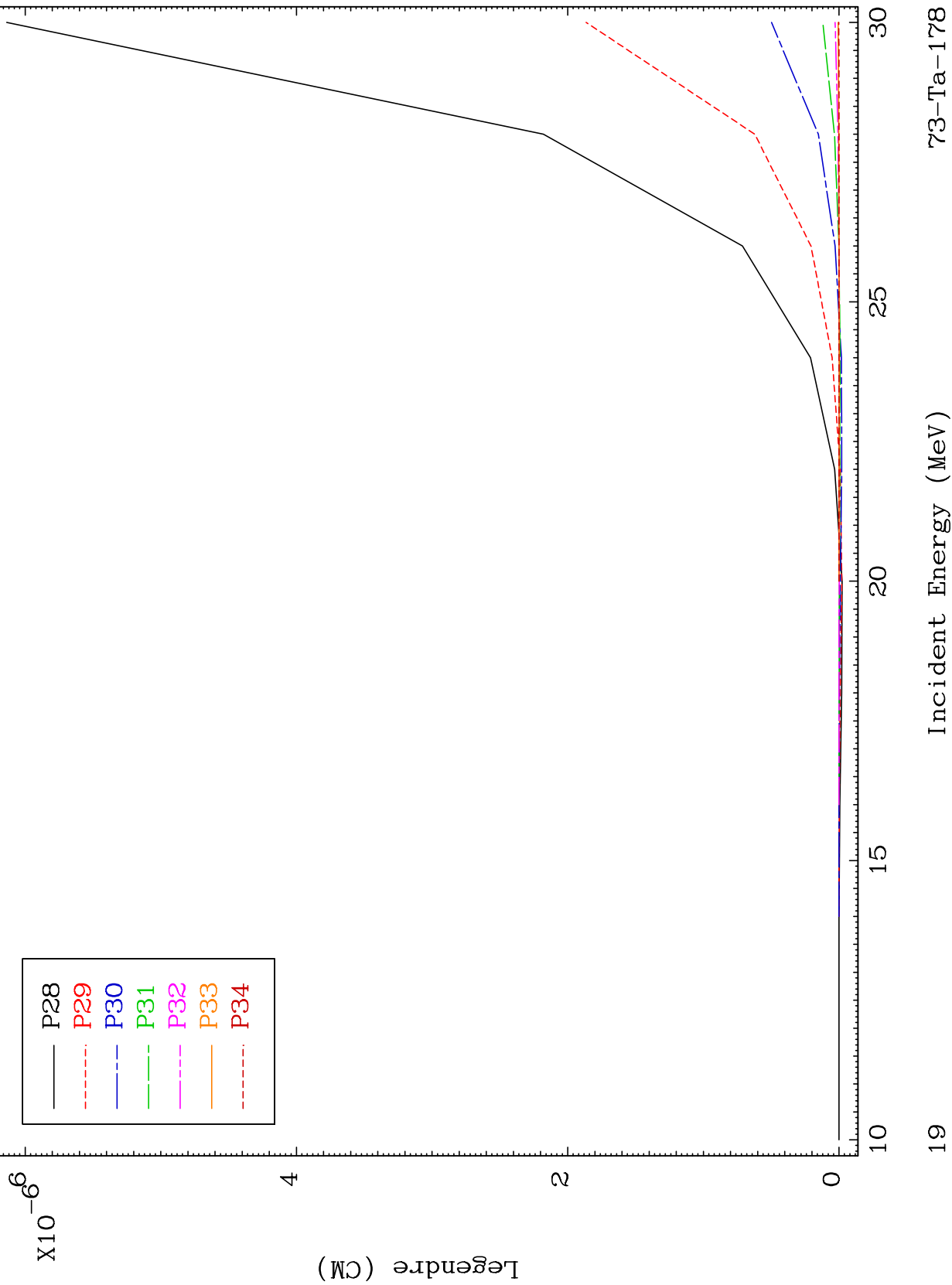
Incident Energy (MeV)

73-Ta-178

MAT 7319

Elastic Legendre Coefficients

⁷³Ta-178



19

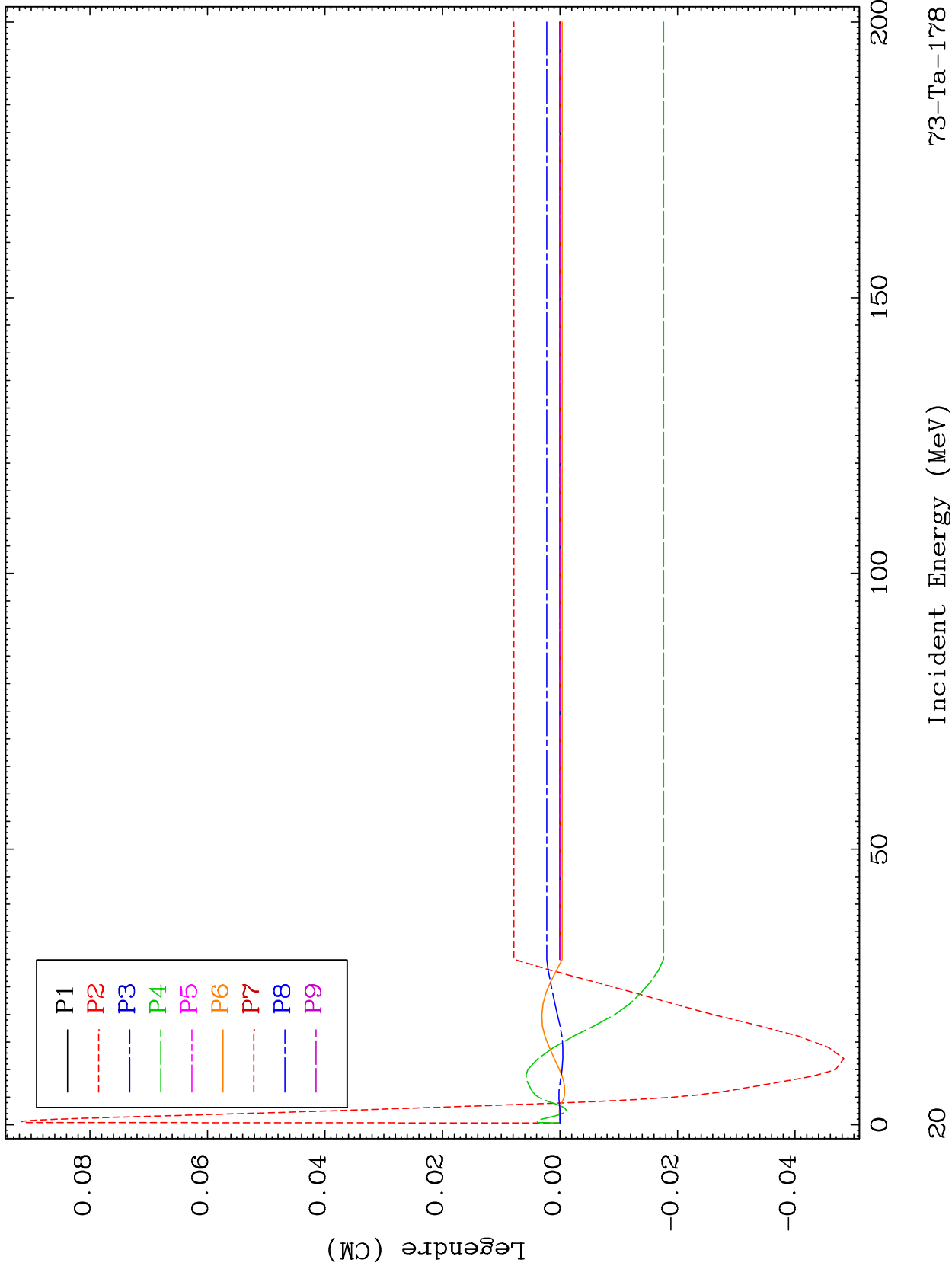
Incident Energy (MeV)

⁷³Ta-178

MAT 7319

300.0 keV (n,n') Level
Legendre Coefficients

73-Ta-178

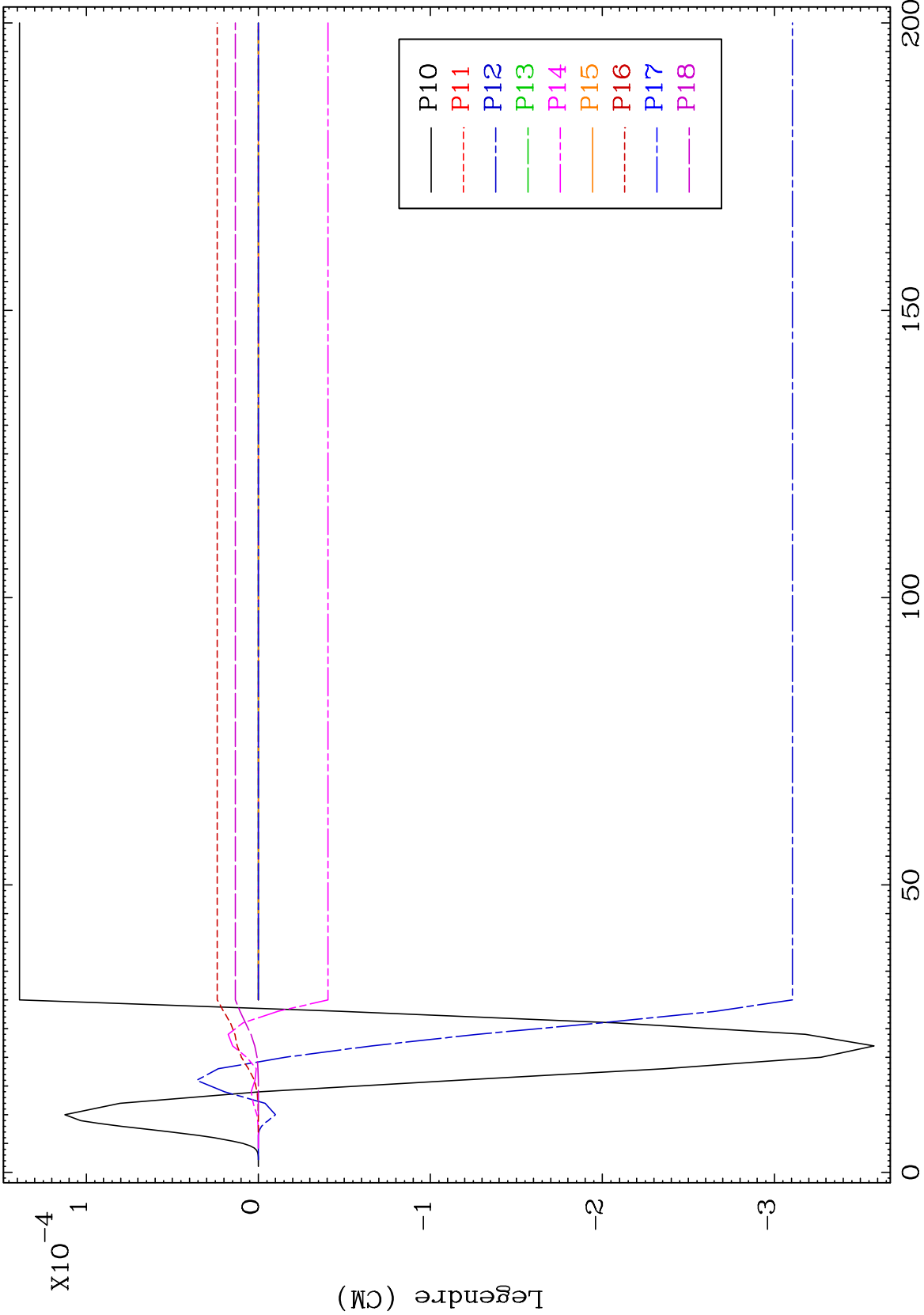


73-Ta-178

MAT 7319

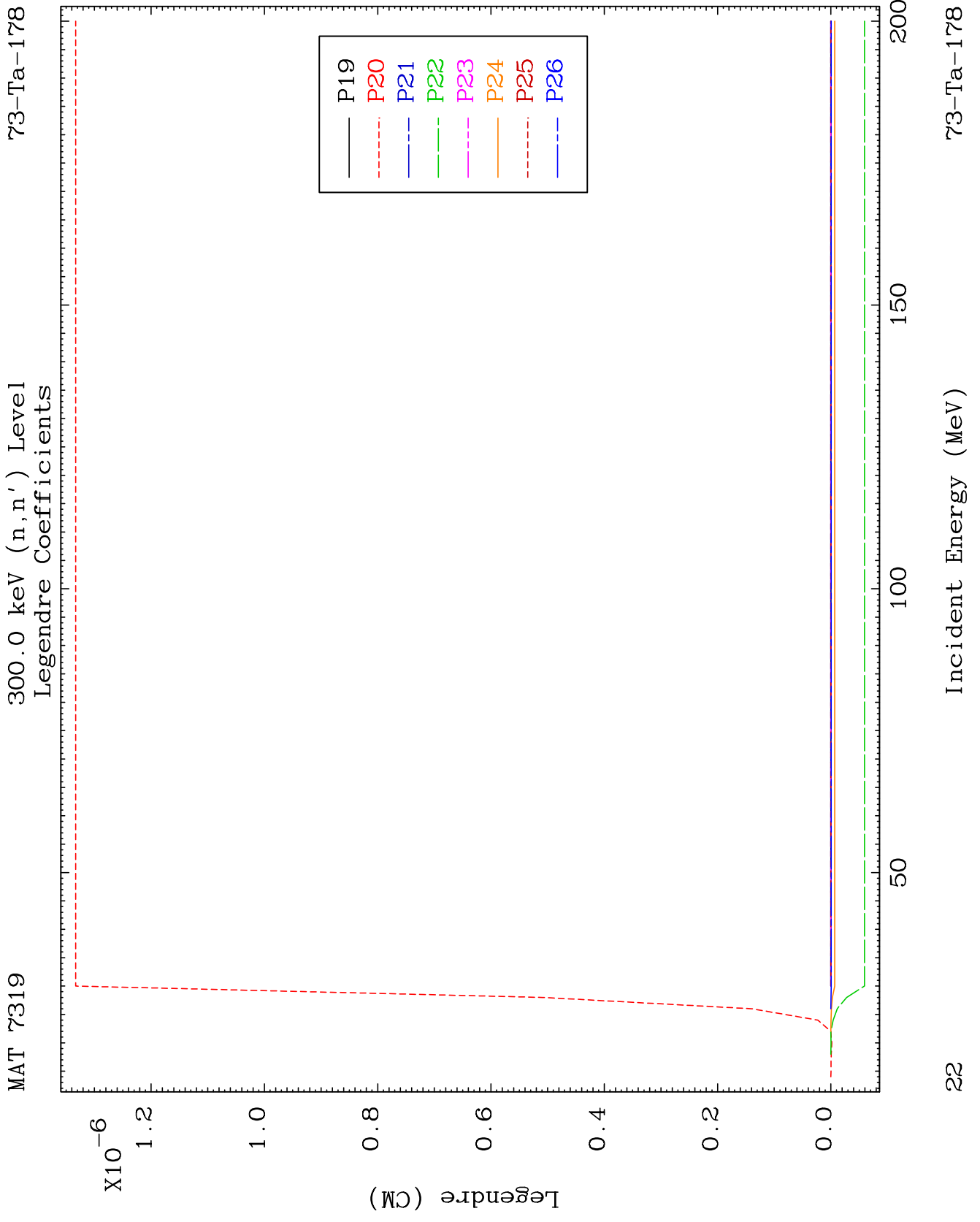
300.0 keV (n,n') Level
Legendre Coefficients

73-Ta-178



21

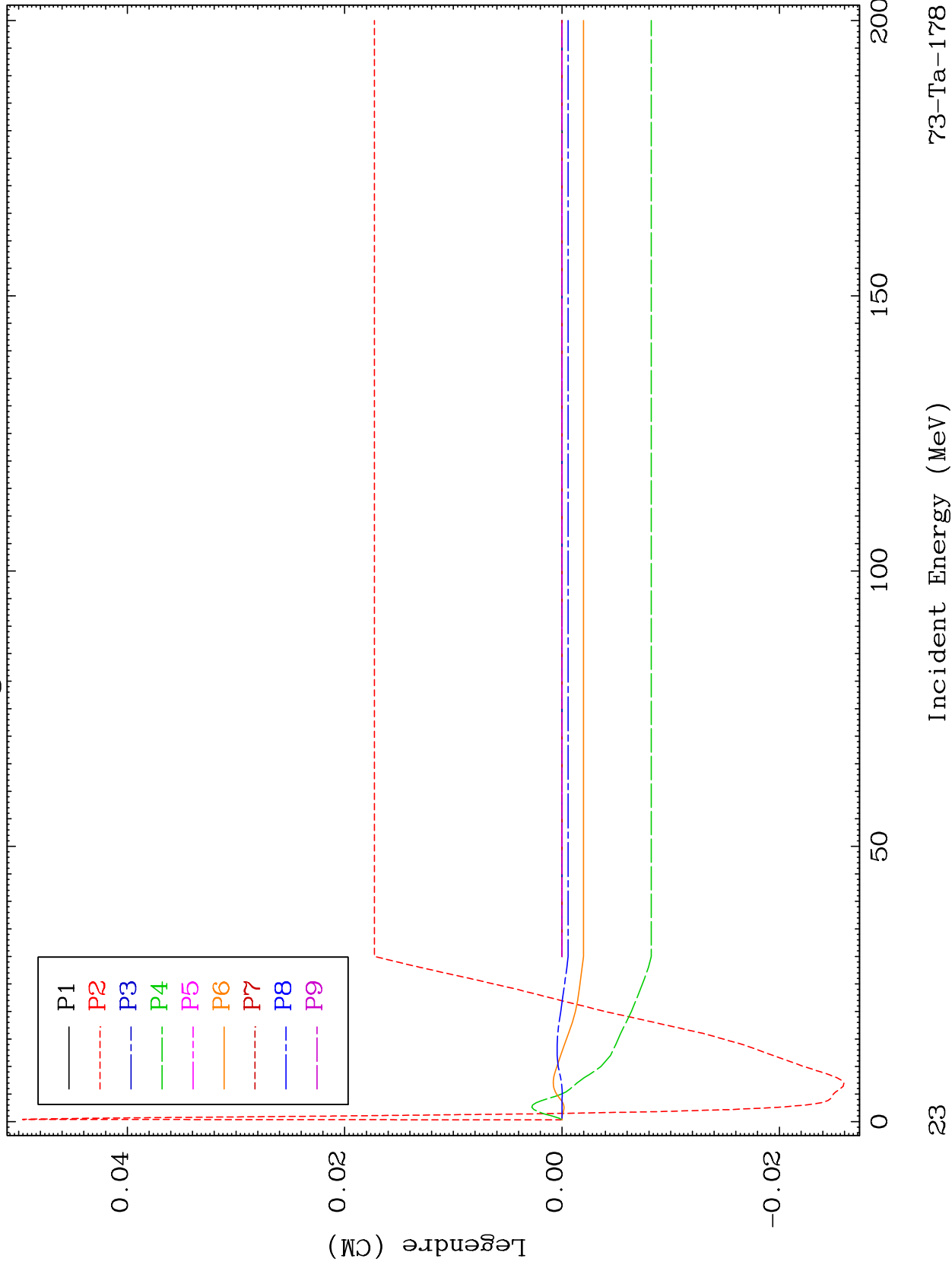
73-Ta-178



MAT 7319

301.1 keV (n,n') Level
Legendre Coefficients

73-Ta-178



73-Ta-178

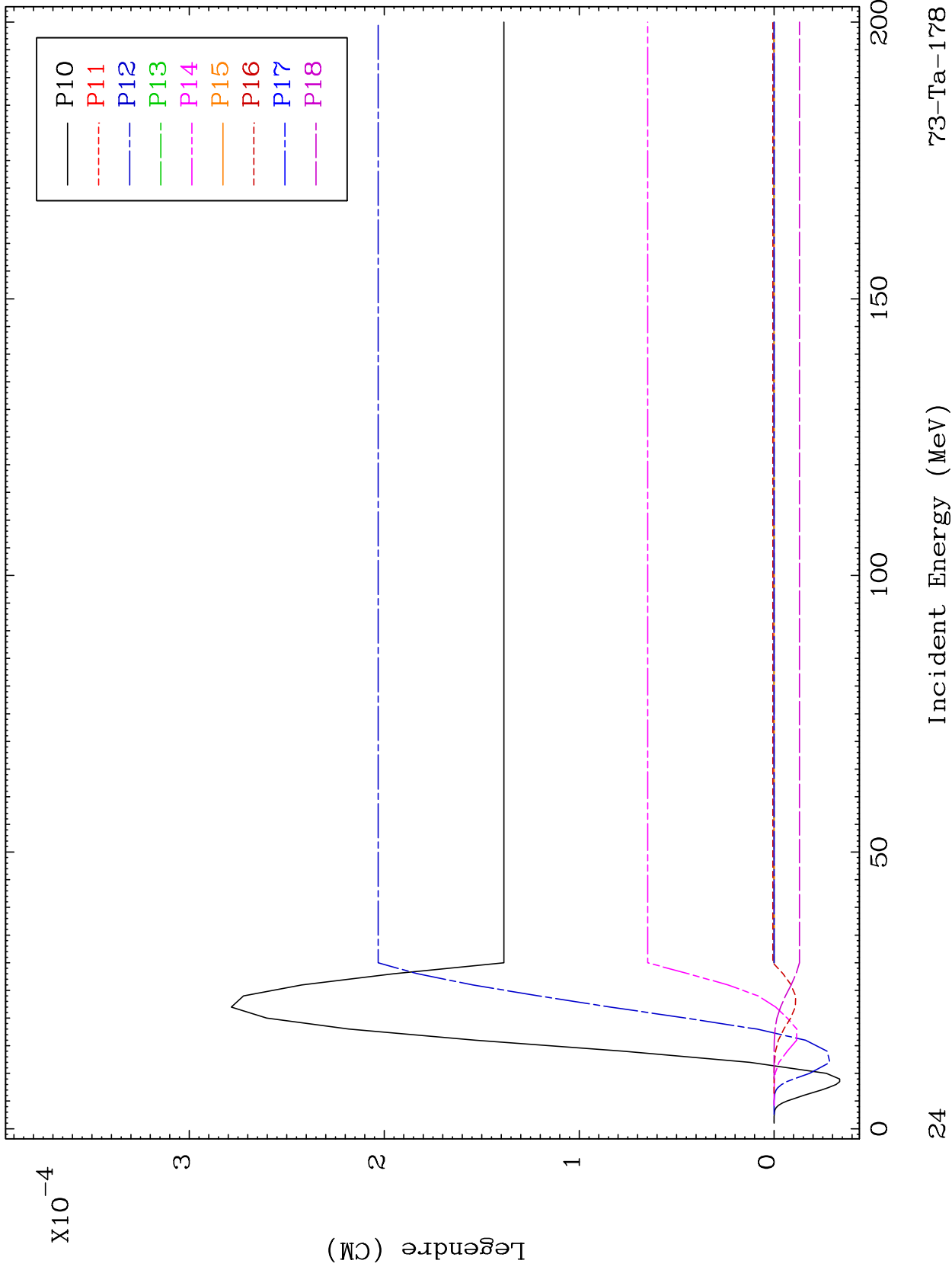
Incident Energy (MeV)

23

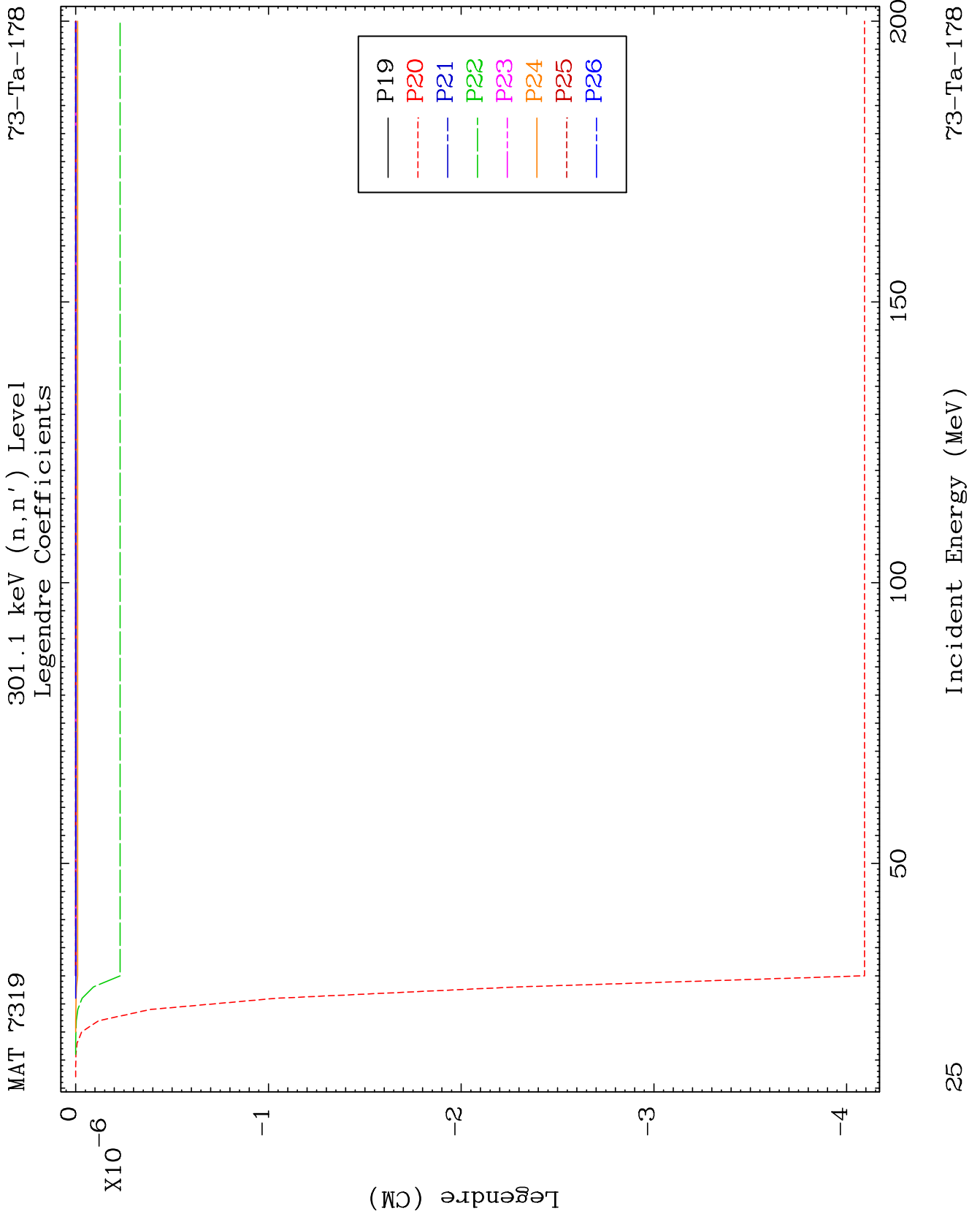
MAT 7319

301.1 keV (n,n') Level
Legendre Coefficients

73-Ta-178



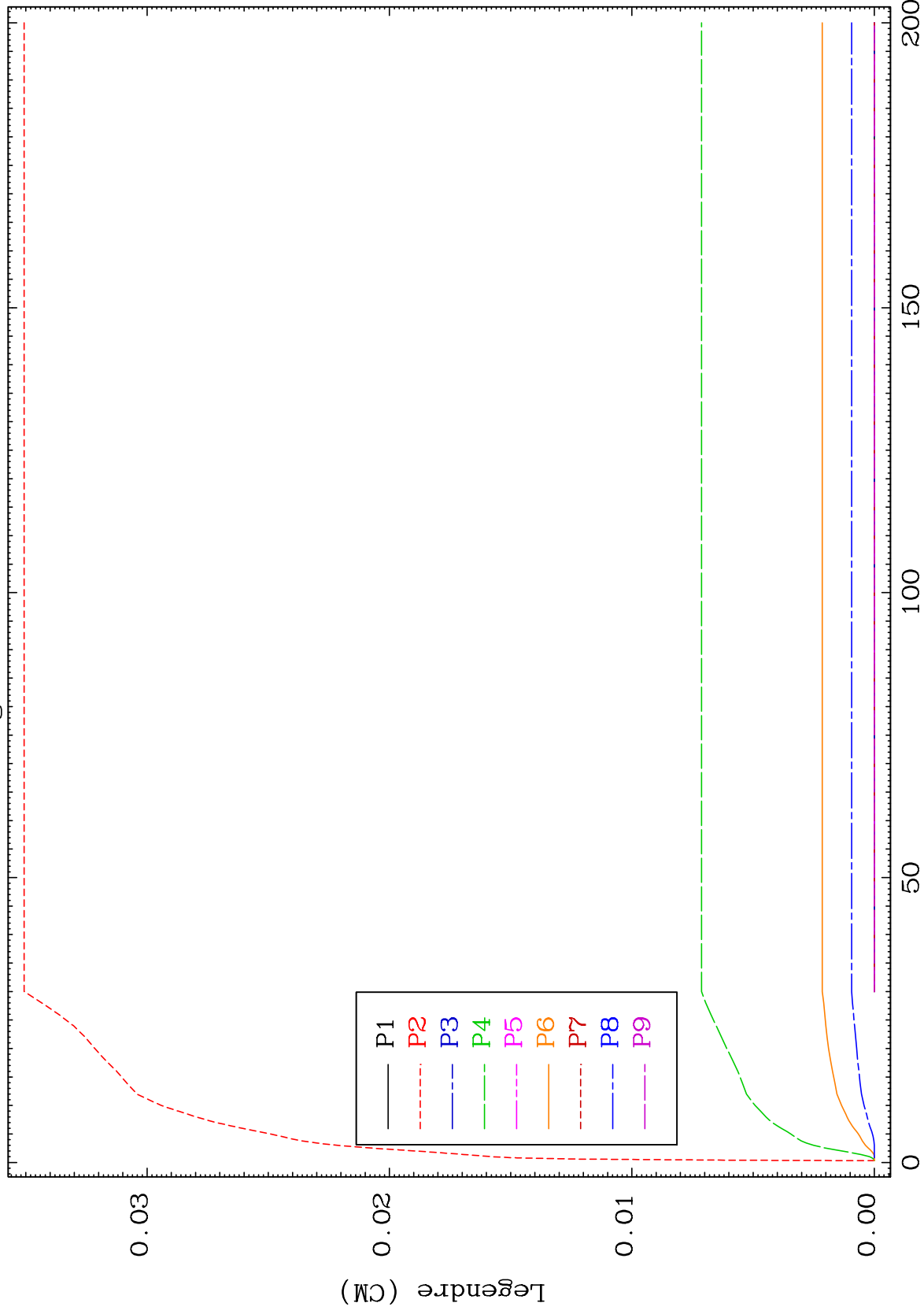
24



MAT 7319

303.9 keV (n,n') Level
Legendre Coefficients

73-Ta-178



26

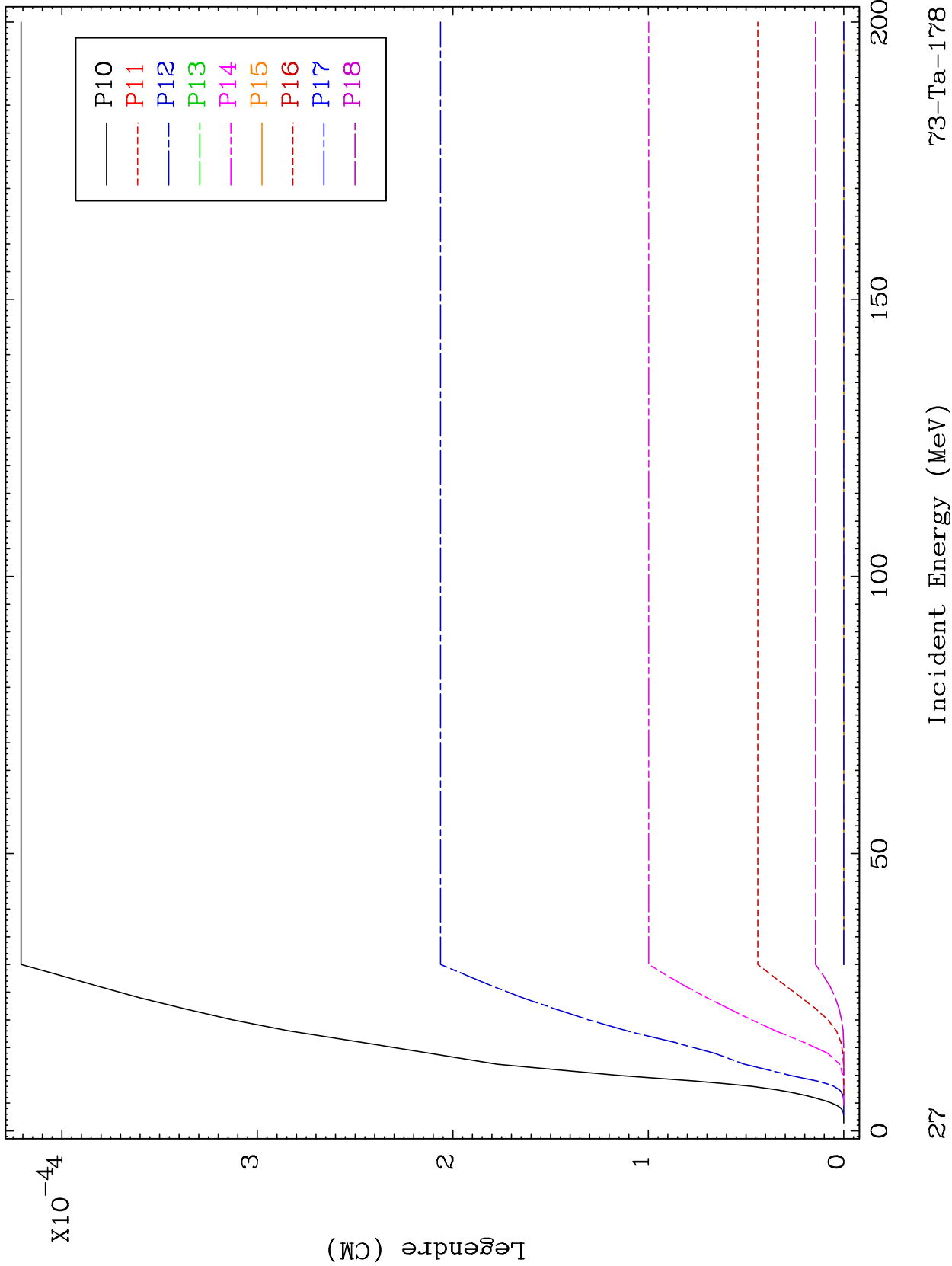
Incident Energy (MeV)

73-Ta-178

MAT 7319

303.9 keV (n,n') Level
Legendre Coefficients

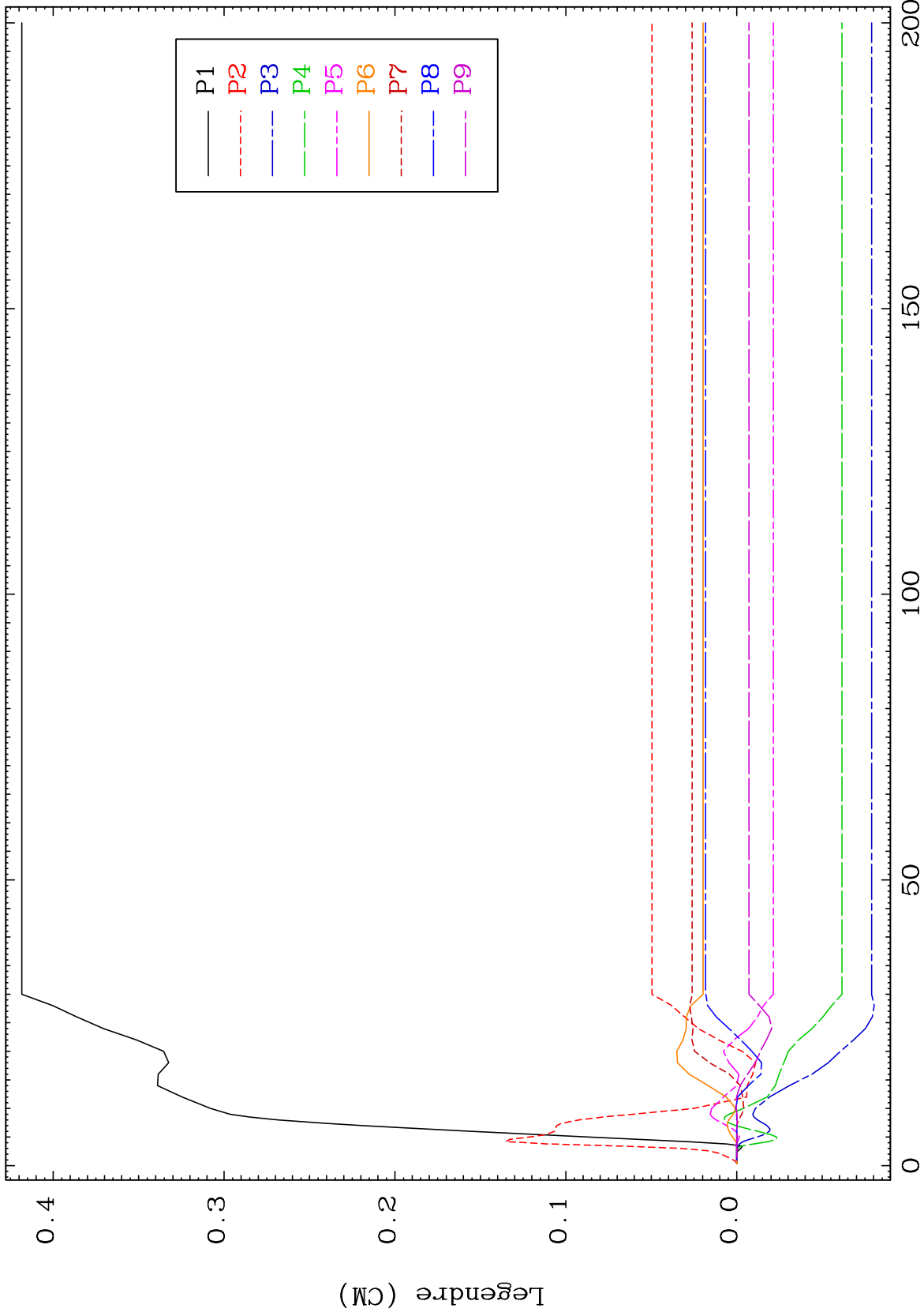
73-Ta-178



27

Incident Energy (MeV)

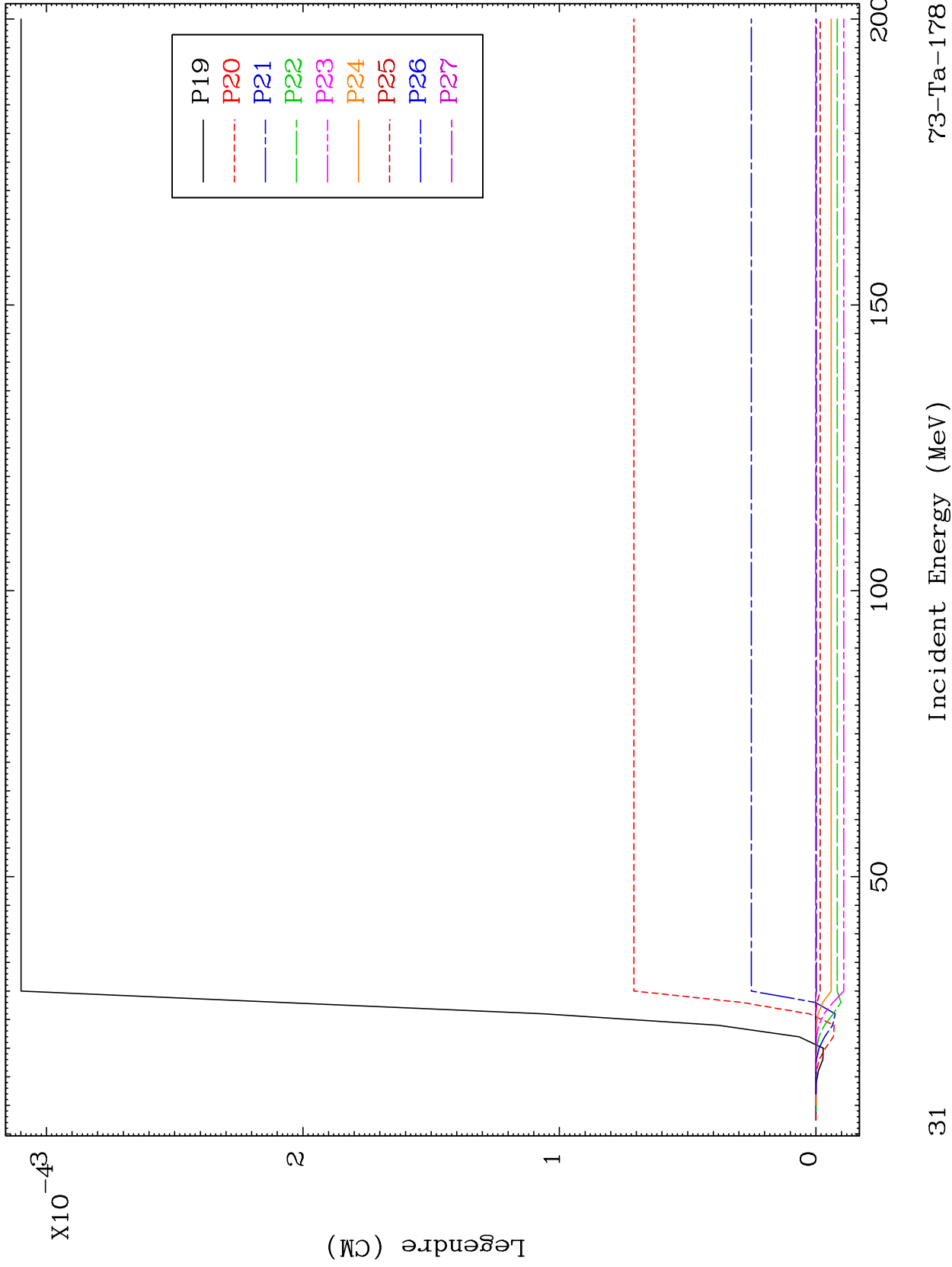
73-Ta-178



MAT 7319

307.9 keV (n,n') Level
Legendre Coefficients

73-Ta-178



31

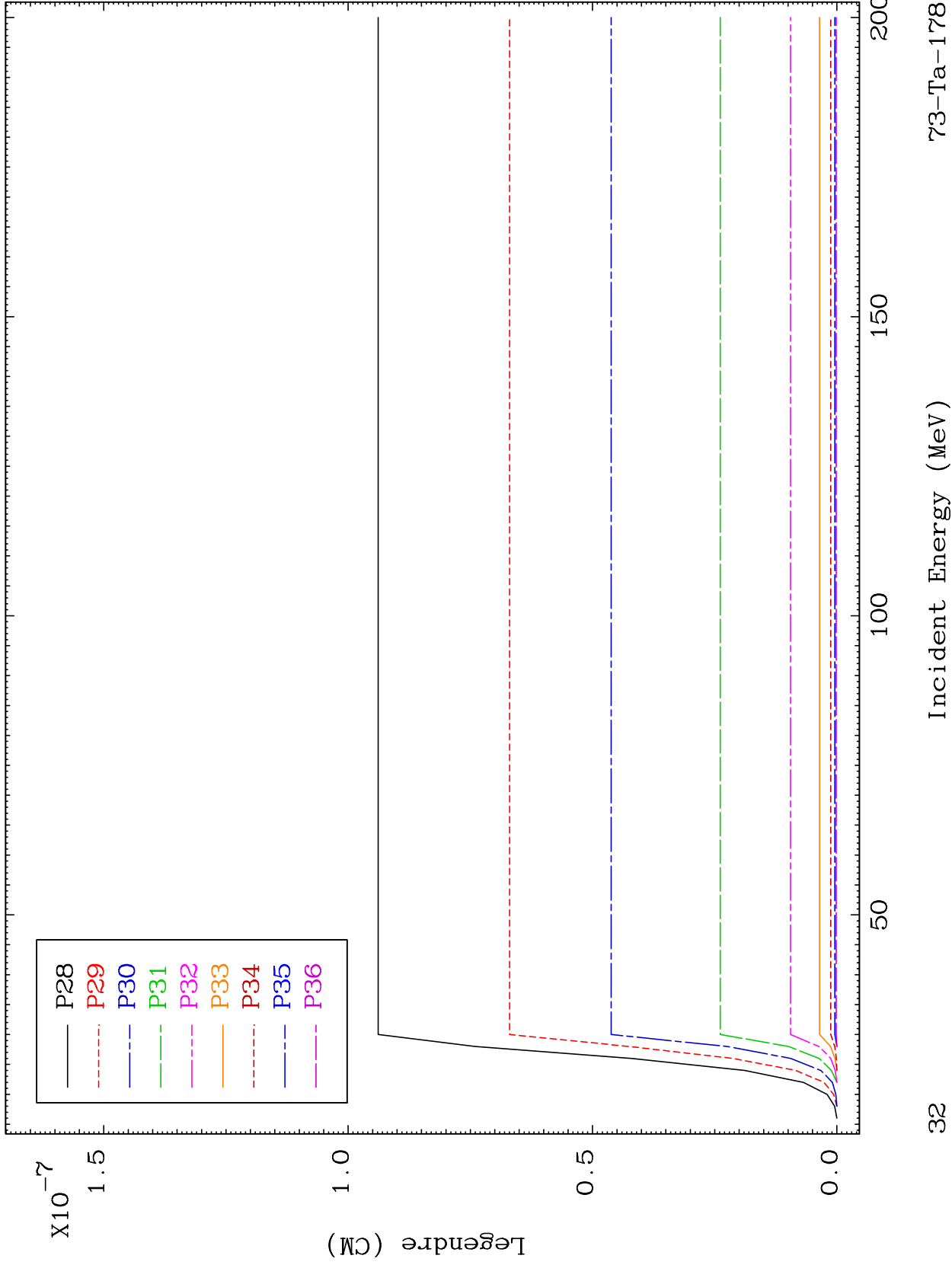
Incident Energy (MeV)

73-Ta-178

MAT 7319

307.9 keV (n,n') Level
Legendre Coefficients

73-Ta-178



32

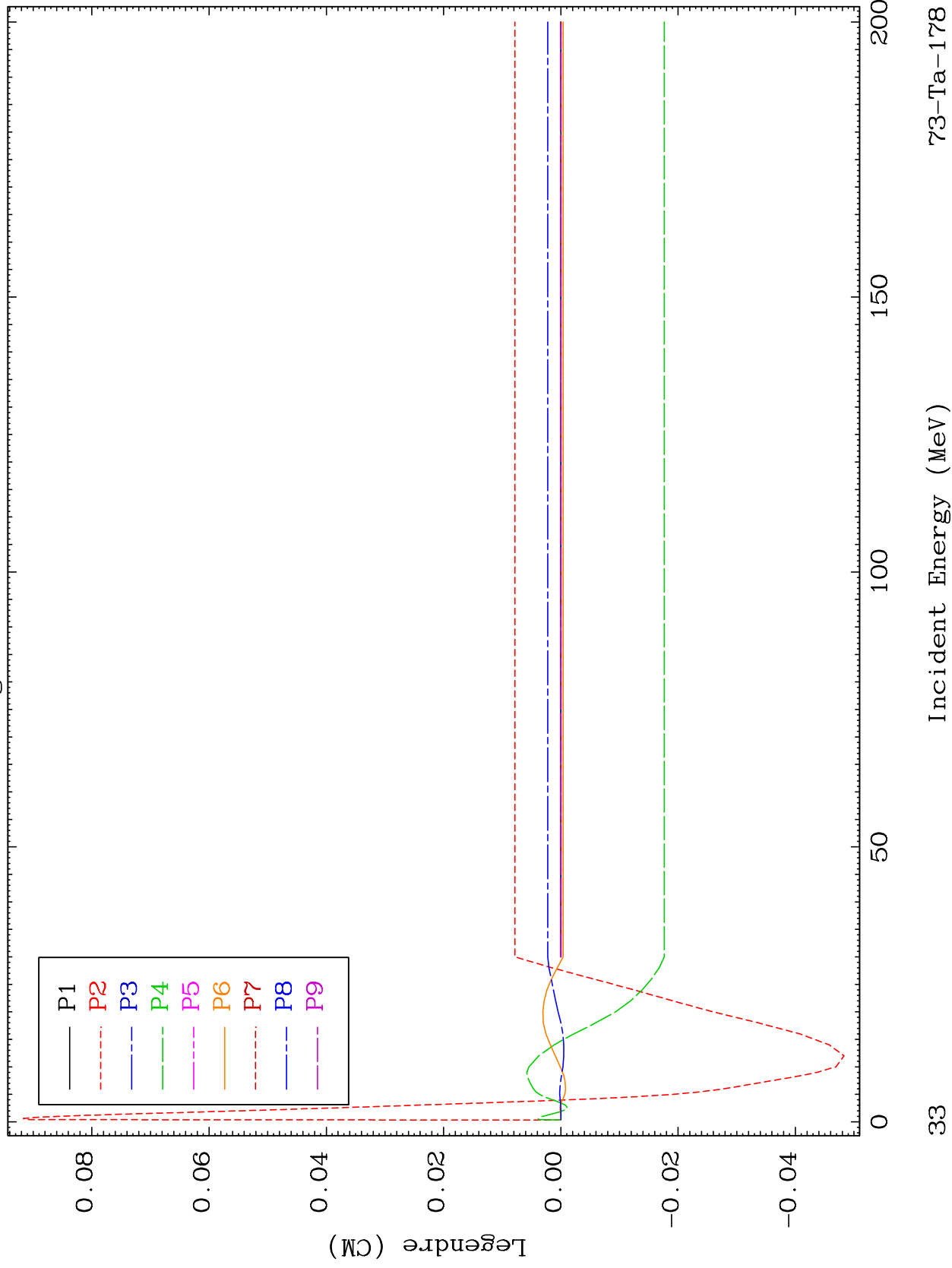
Incident Energy (MeV)

73-Ta-178

MAT 7319

313.3 keV (n,n') Level
Legendre Coefficients

73-Ta-178

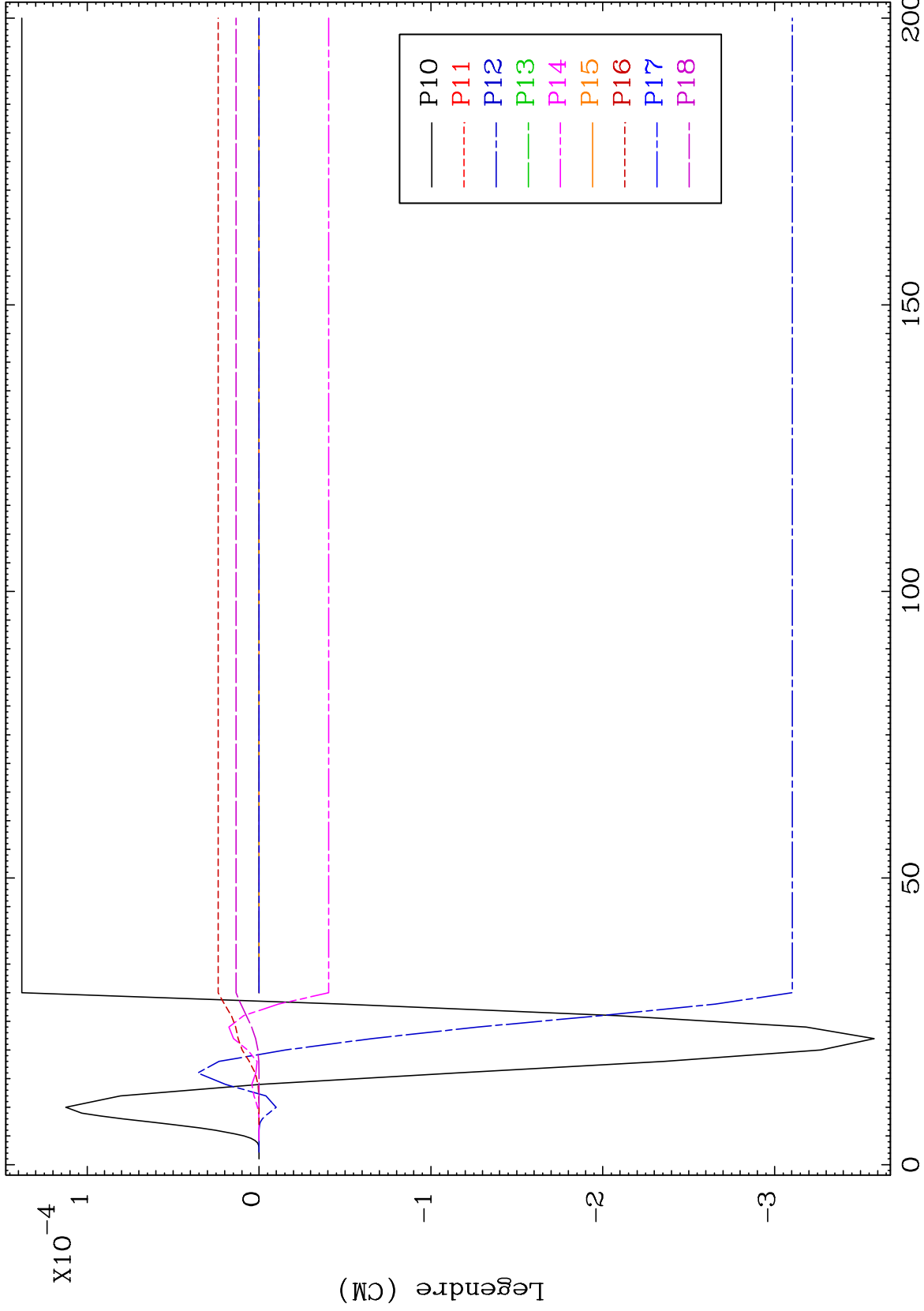


33

MAT 7319

313.3 keV (n,n') Level
Legendre Coefficients

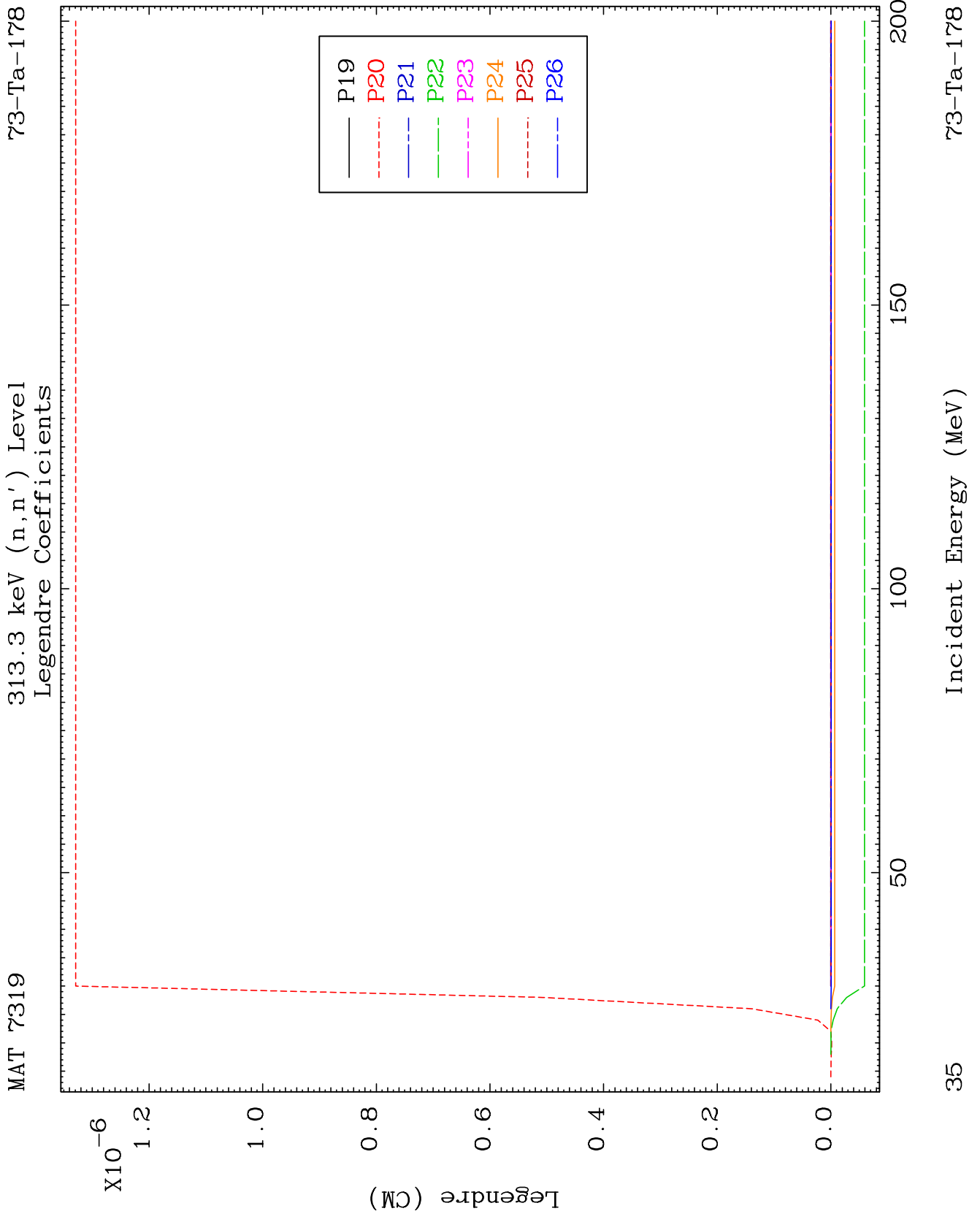
73-Ta-178

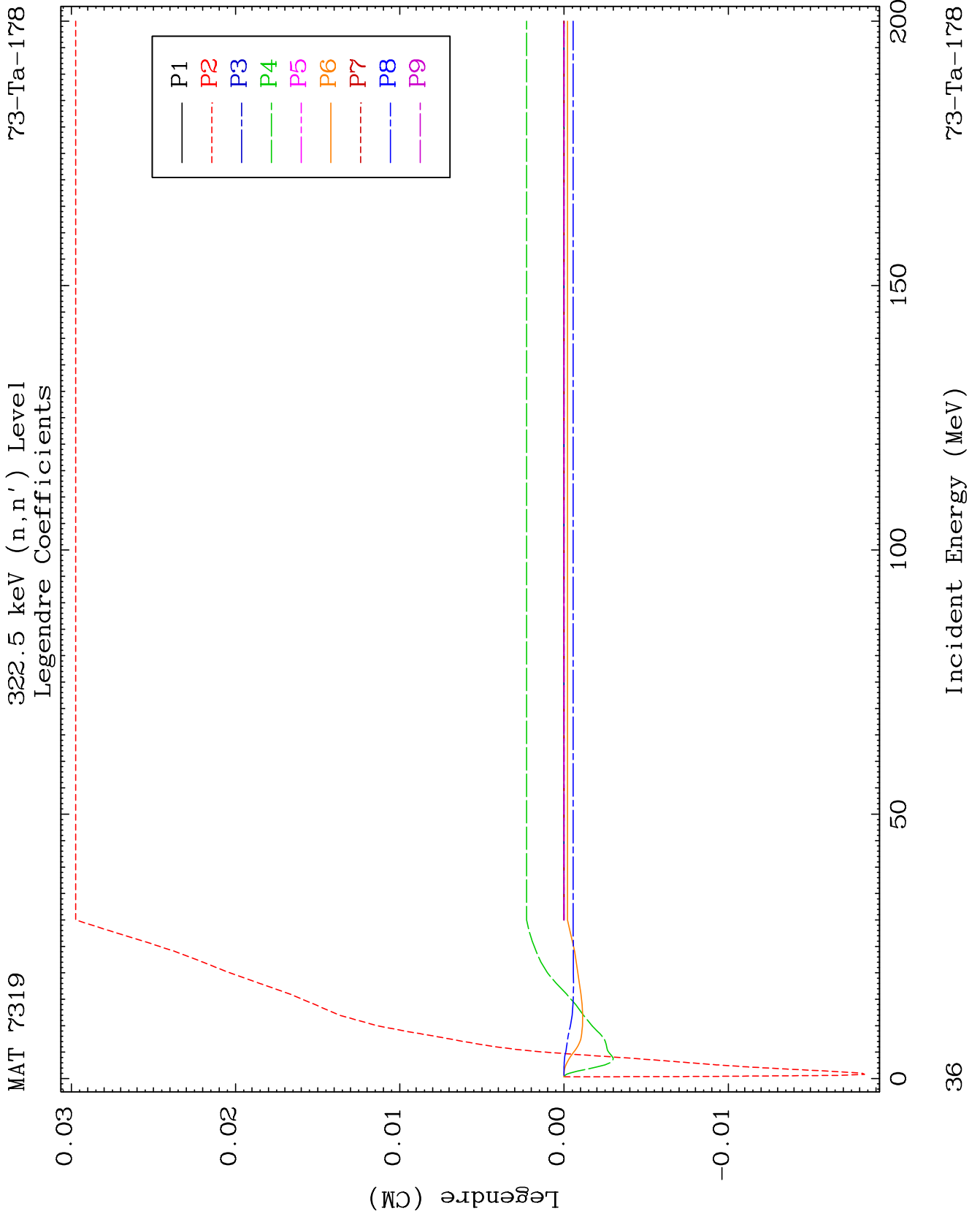


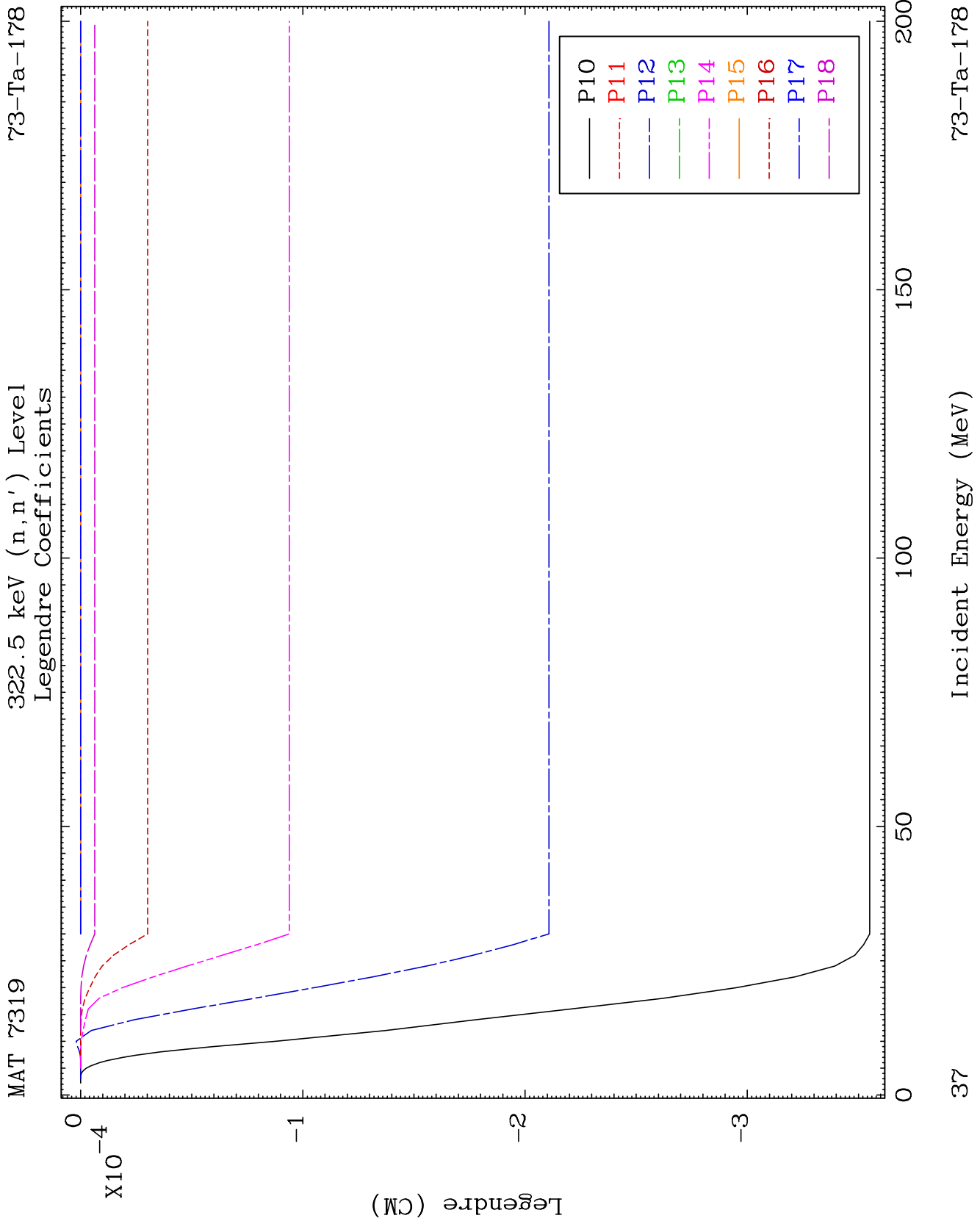
34

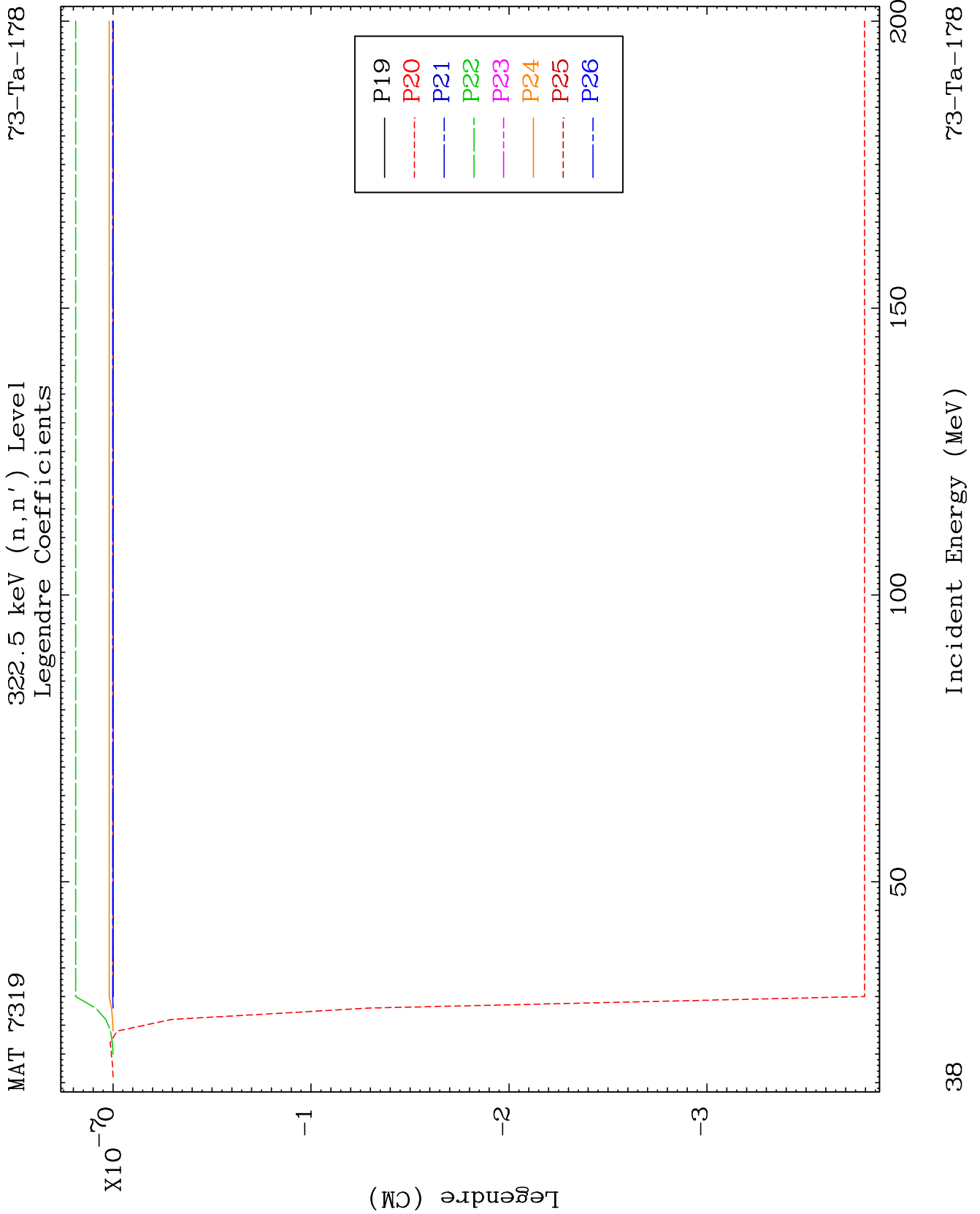
Incident Energy (MeV)

73-Ta-178





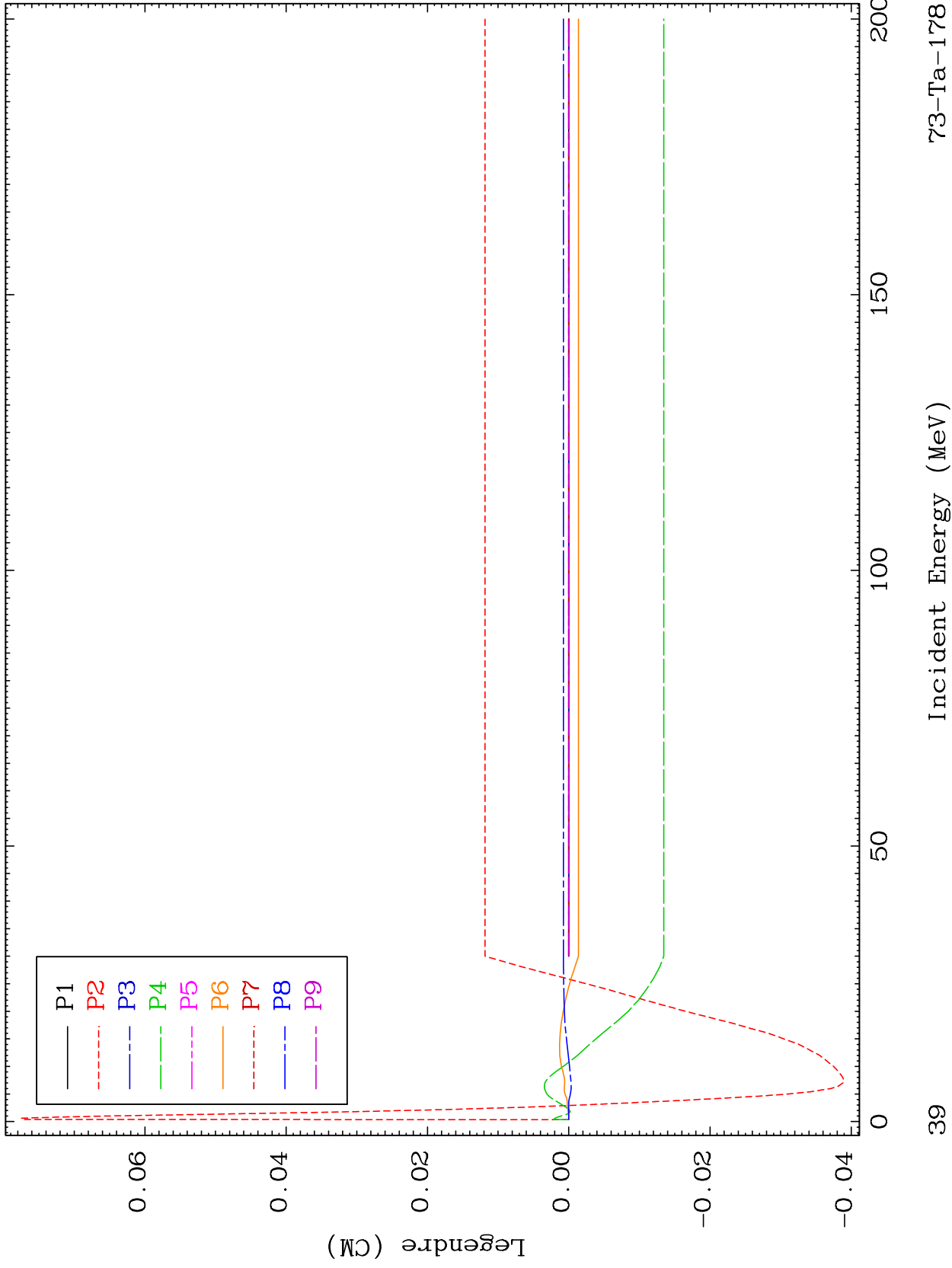




MAT 7319

334.4 keV (n,n') Level
Legendre Coefficients

73-Ta-178



39

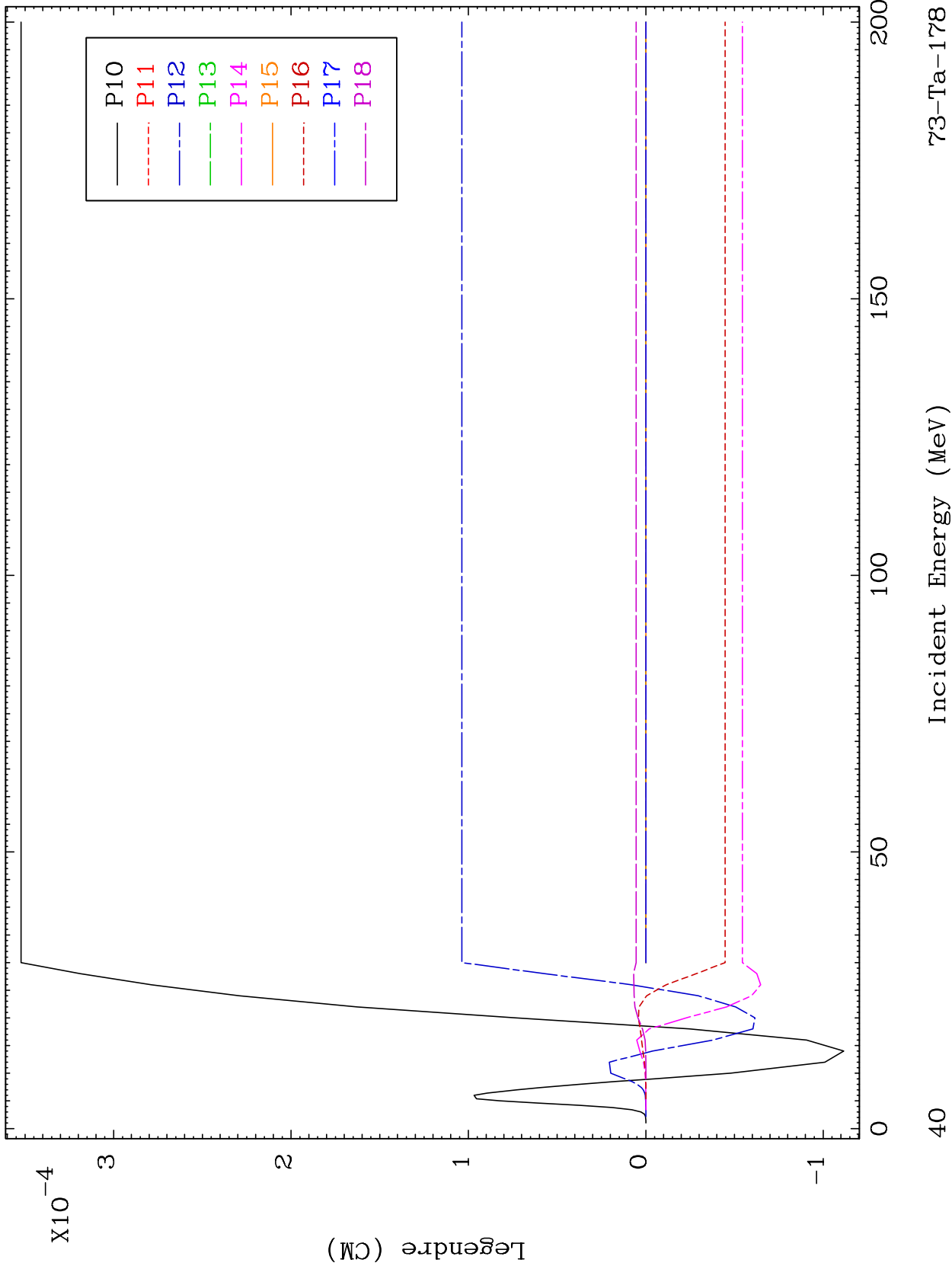
Incident Energy (MeV)

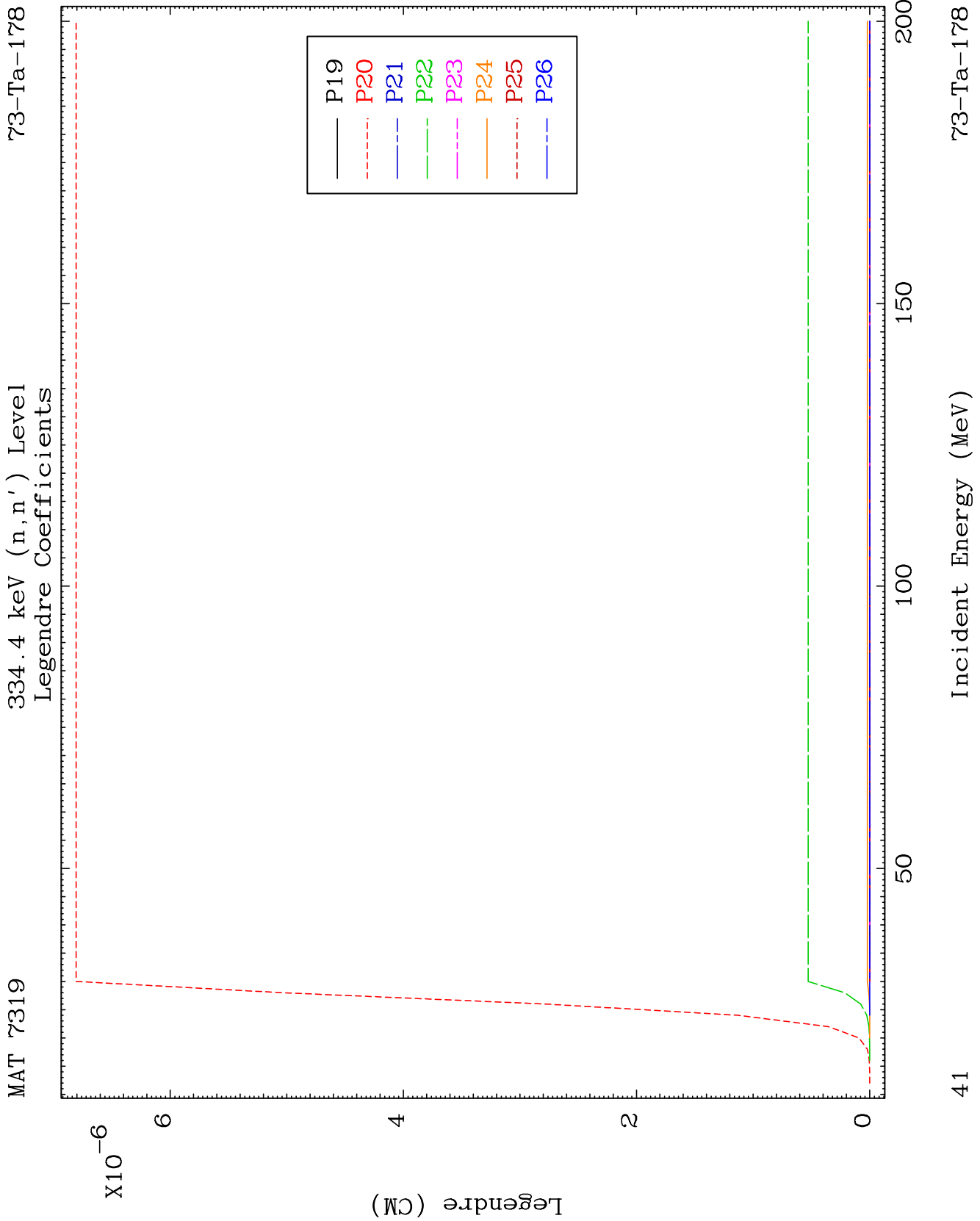
73-Ta-178

MAT 7319

334.4 keV (n,n') Level
Legendre Coefficients

73-Ta-178

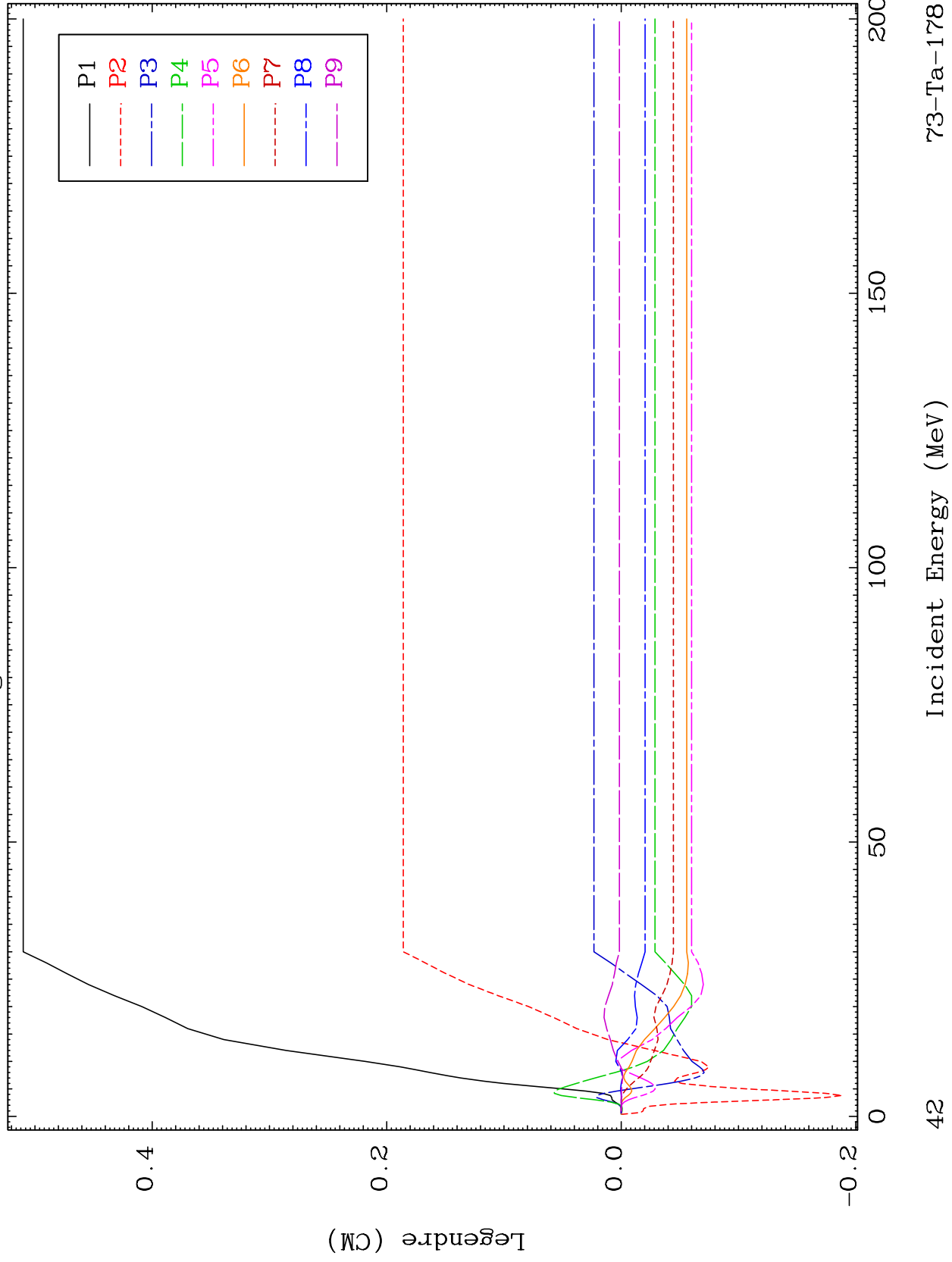




MAT 7319

344.7 keV (n,n') Level
Legendre Coefficients

73-Ta-178



73-Ta-178

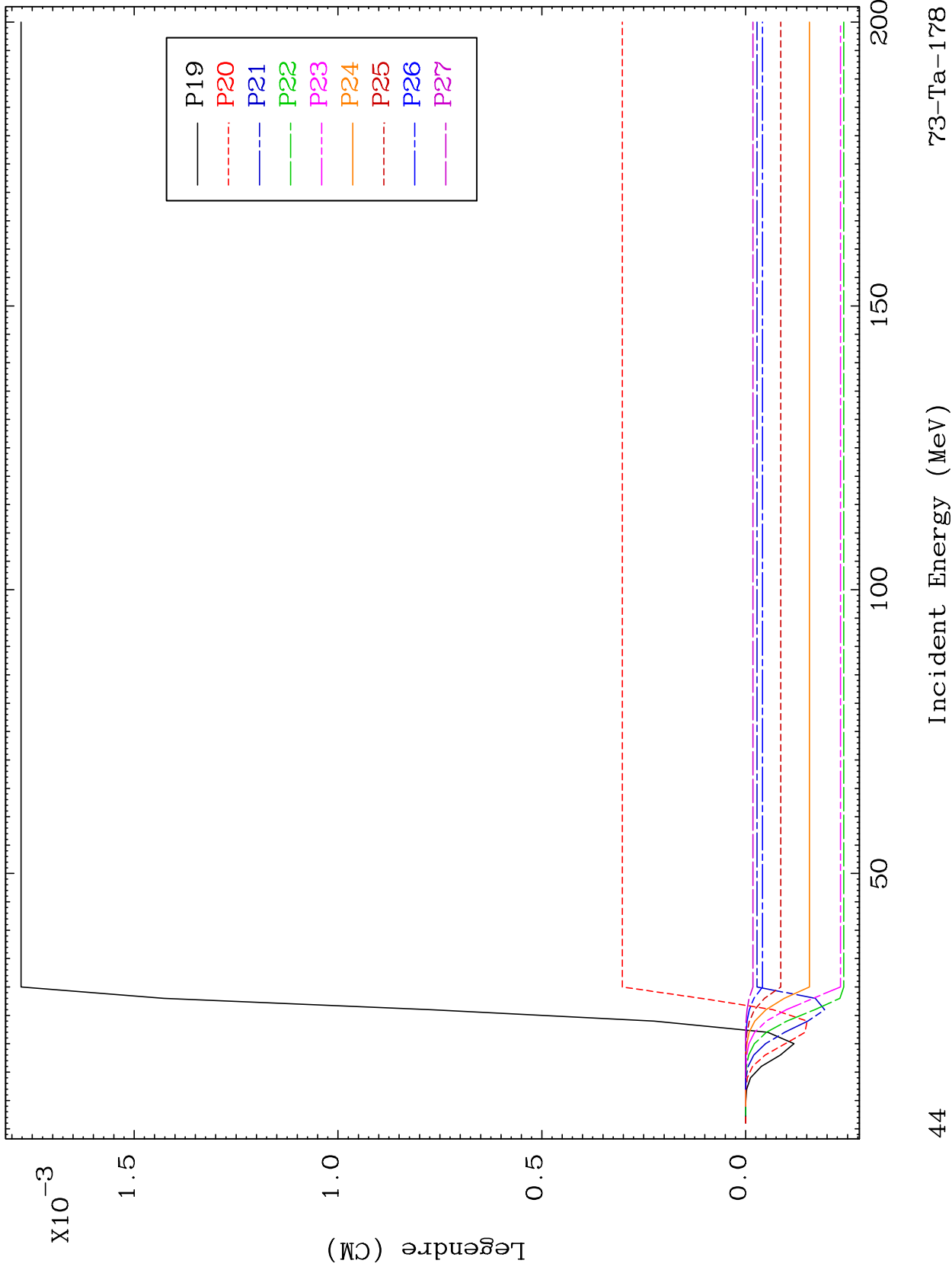
Incident Energy (MeV)

42

MAT 7319

344.7 keV (n, n') Level
Legendre Coefficients

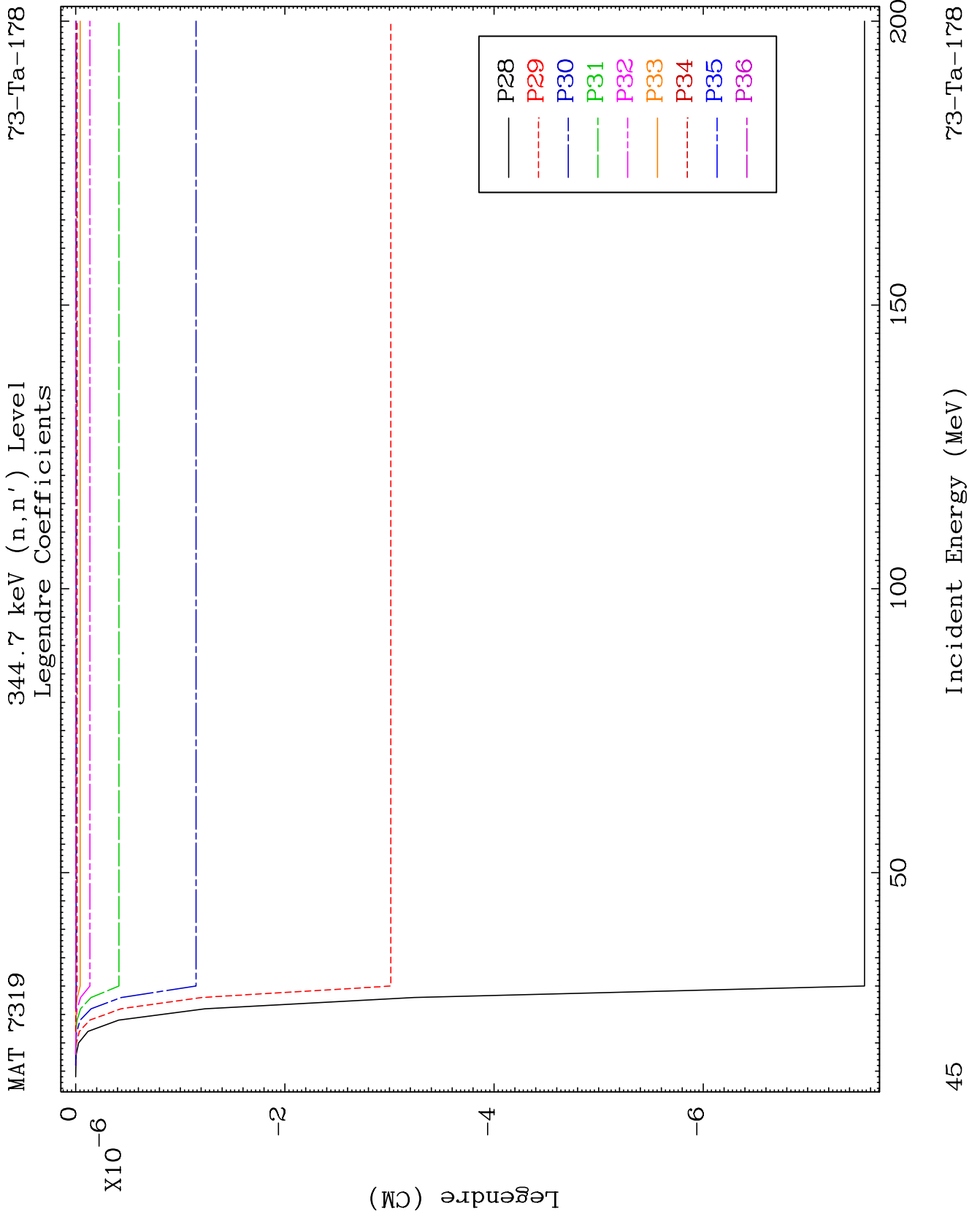
73-Ta-178



44

Incident Energy (MeV)

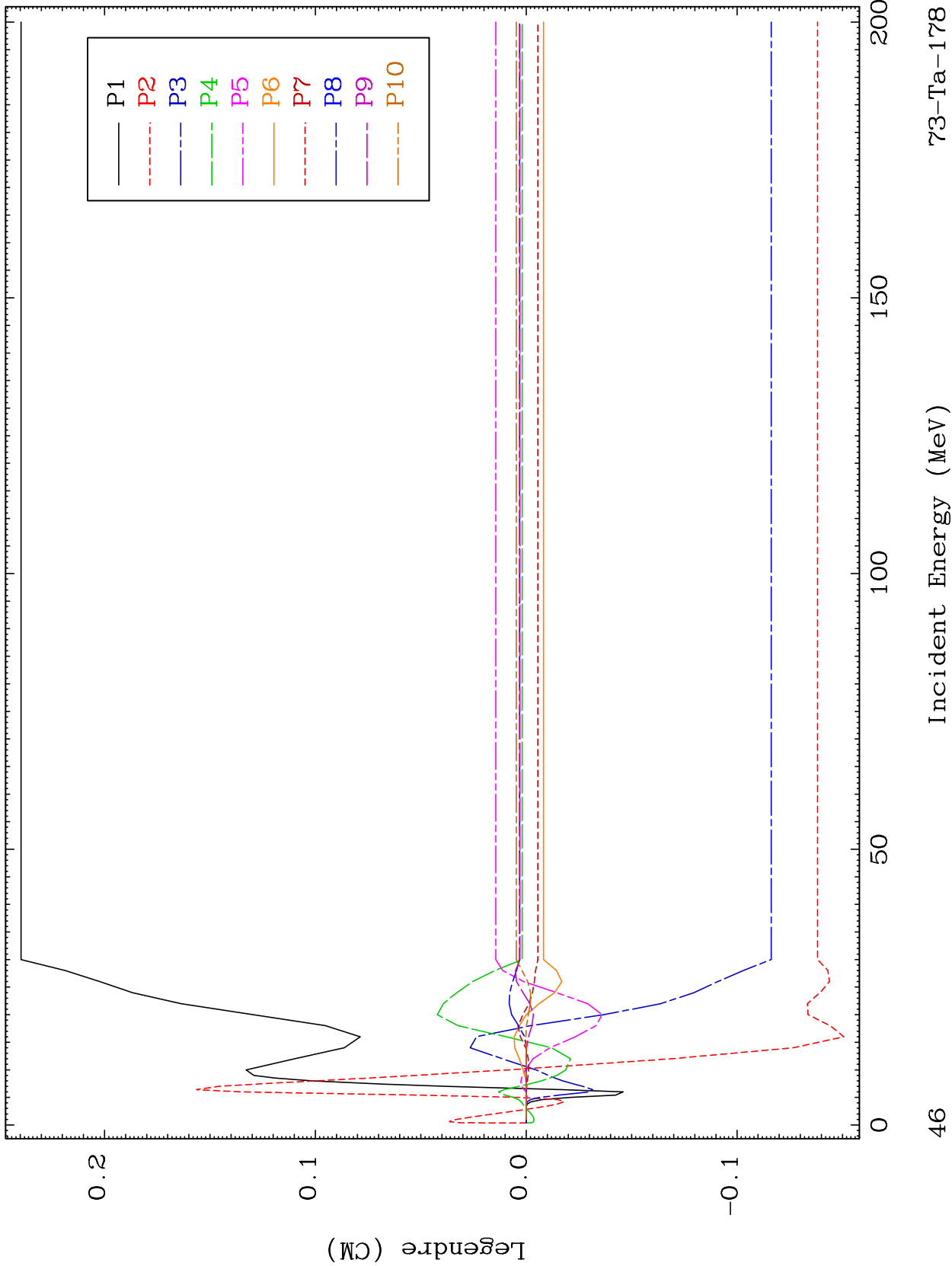
73-Ta-178



MAT 7319

350.9 keV (n,n') Level
Legendre Coefficients

73-Ta-178



73-Ta-178

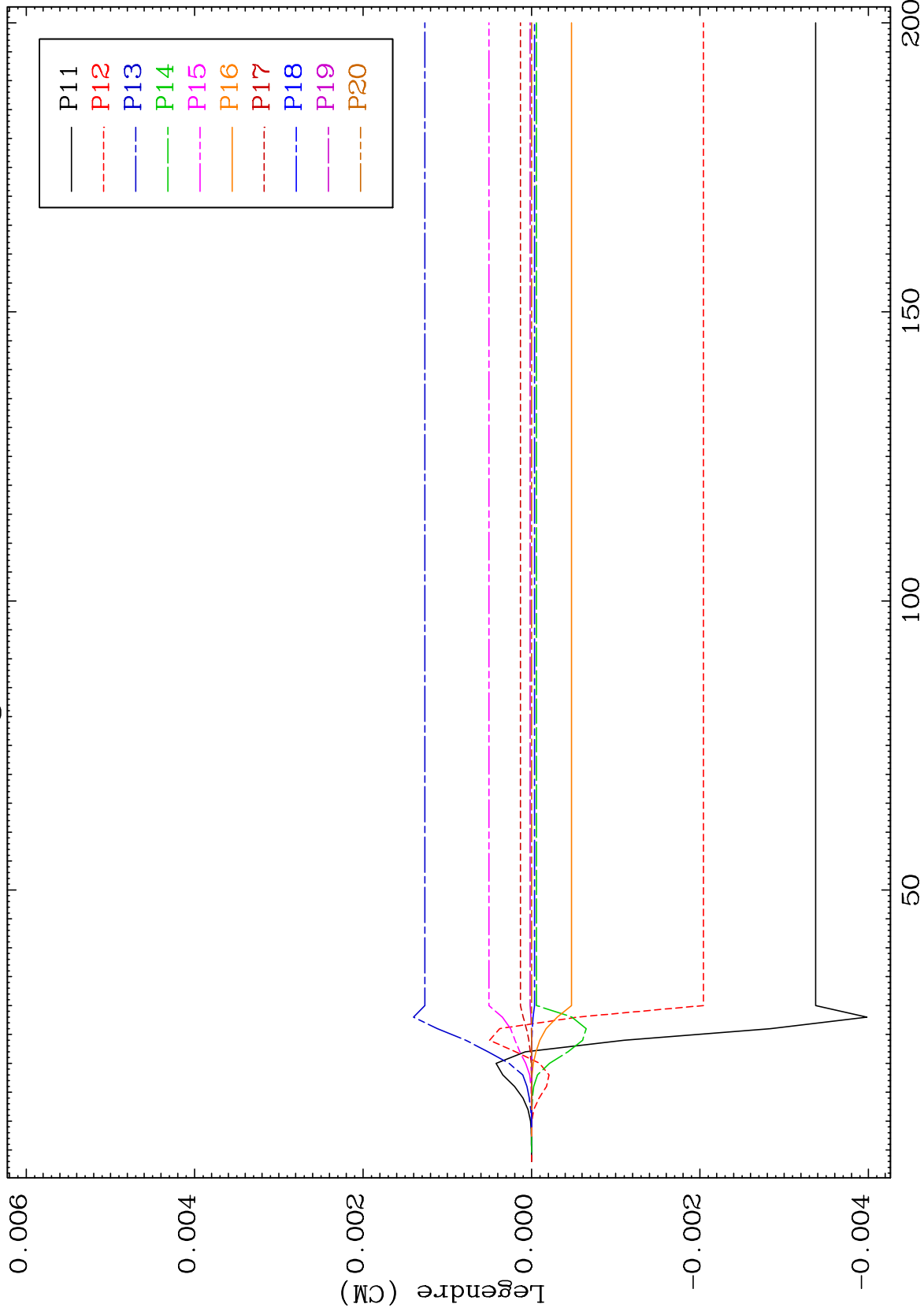
Incident Energy (MeV)

46

MAT 7319

350.9 keV (n,n') Level
Legendre Coefficients

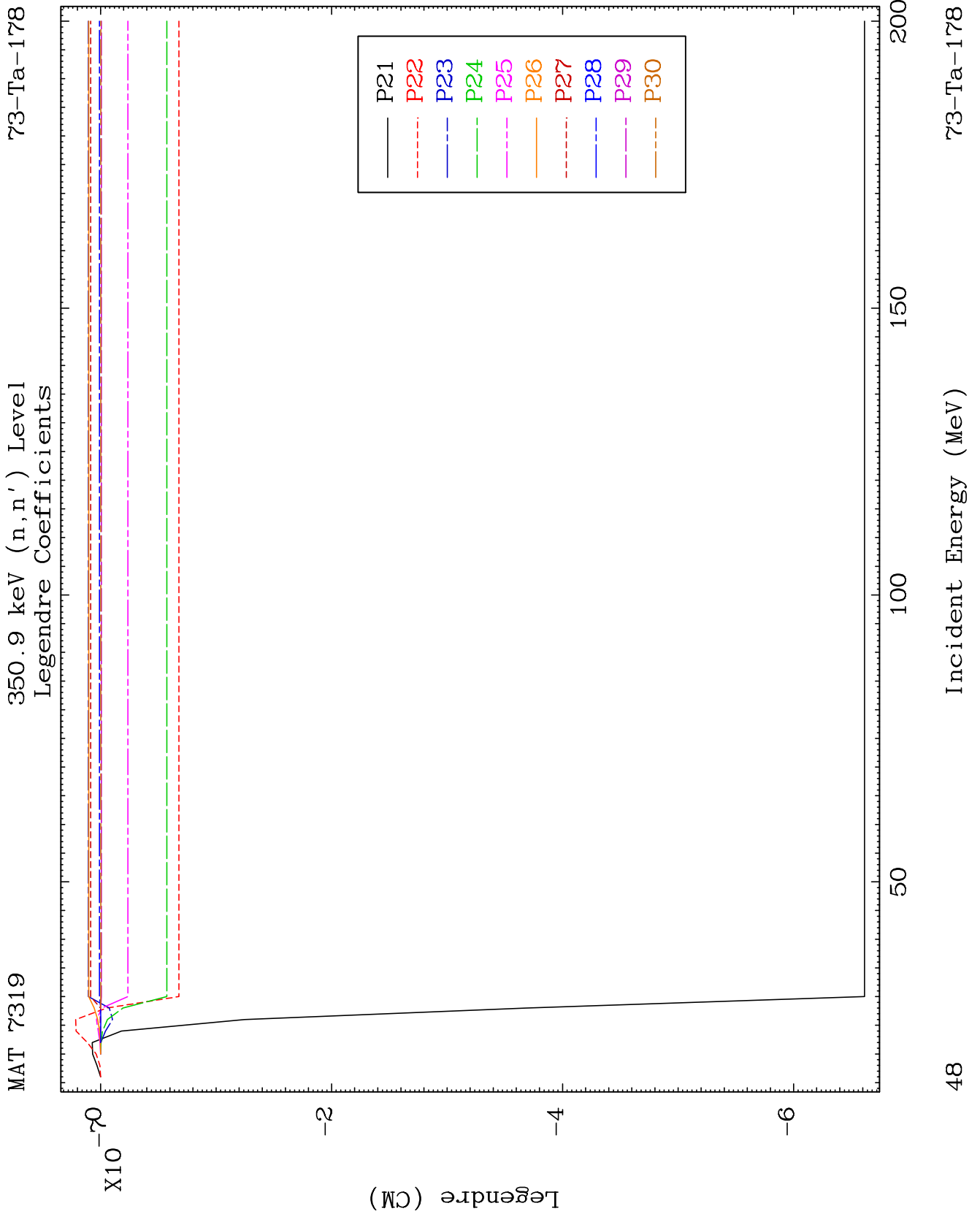
73-Ta-178



47

Incident Energy (MeV)

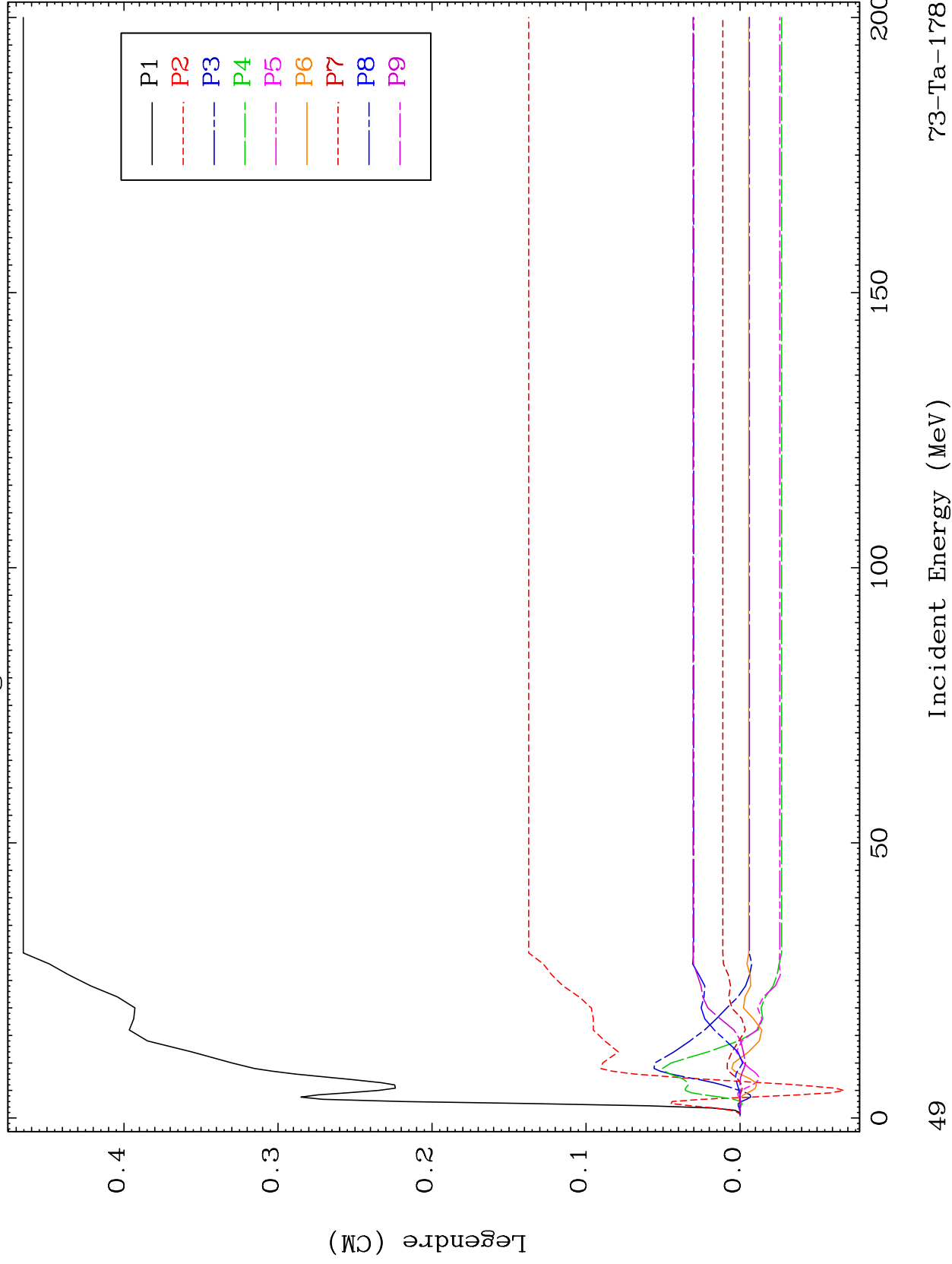
73-Ta-178



MAT 7319

354.0 keV (n,n') Level
Legendre Coefficients

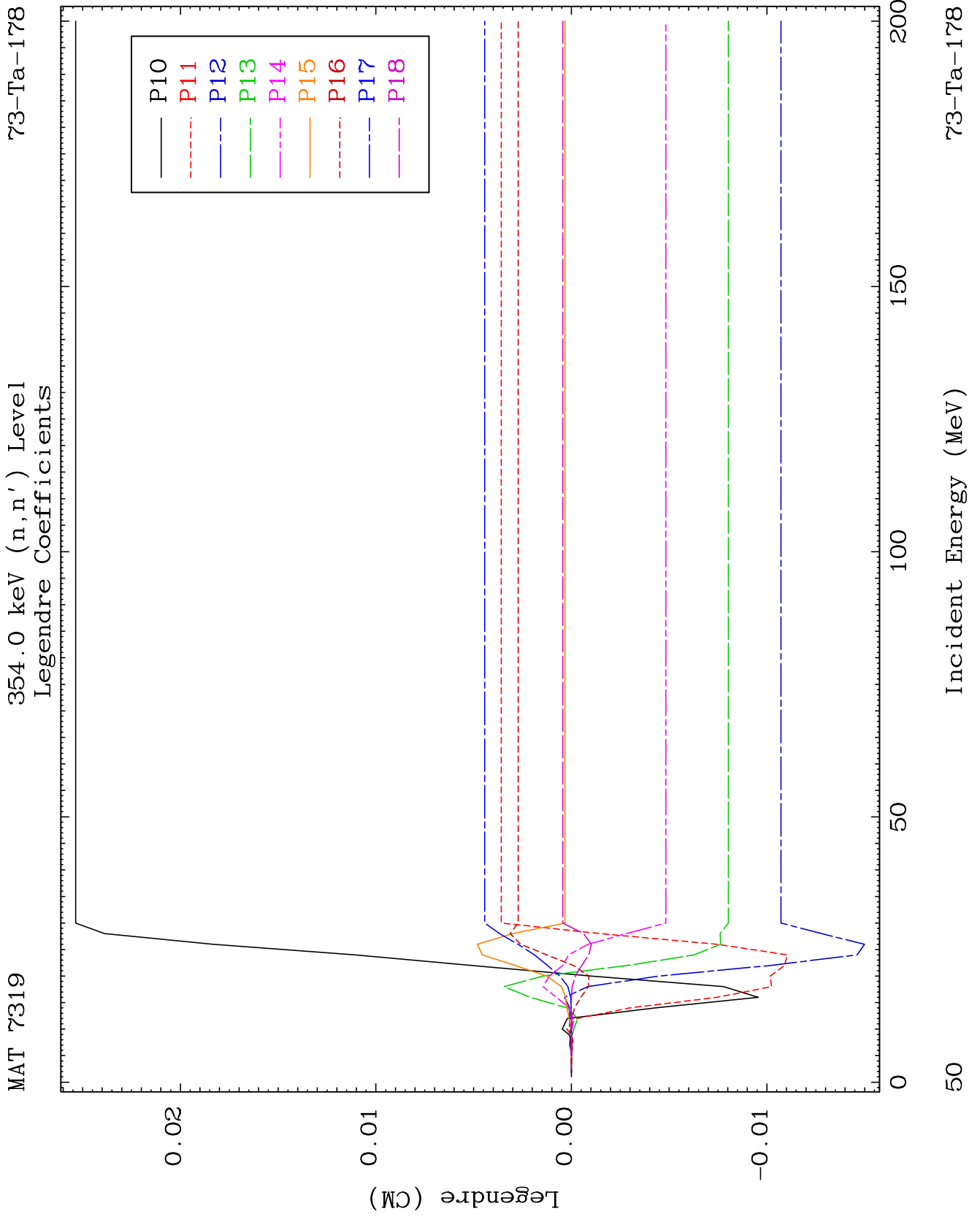
73-Ta-178



73-Ta-178

Incident Energy (MeV)

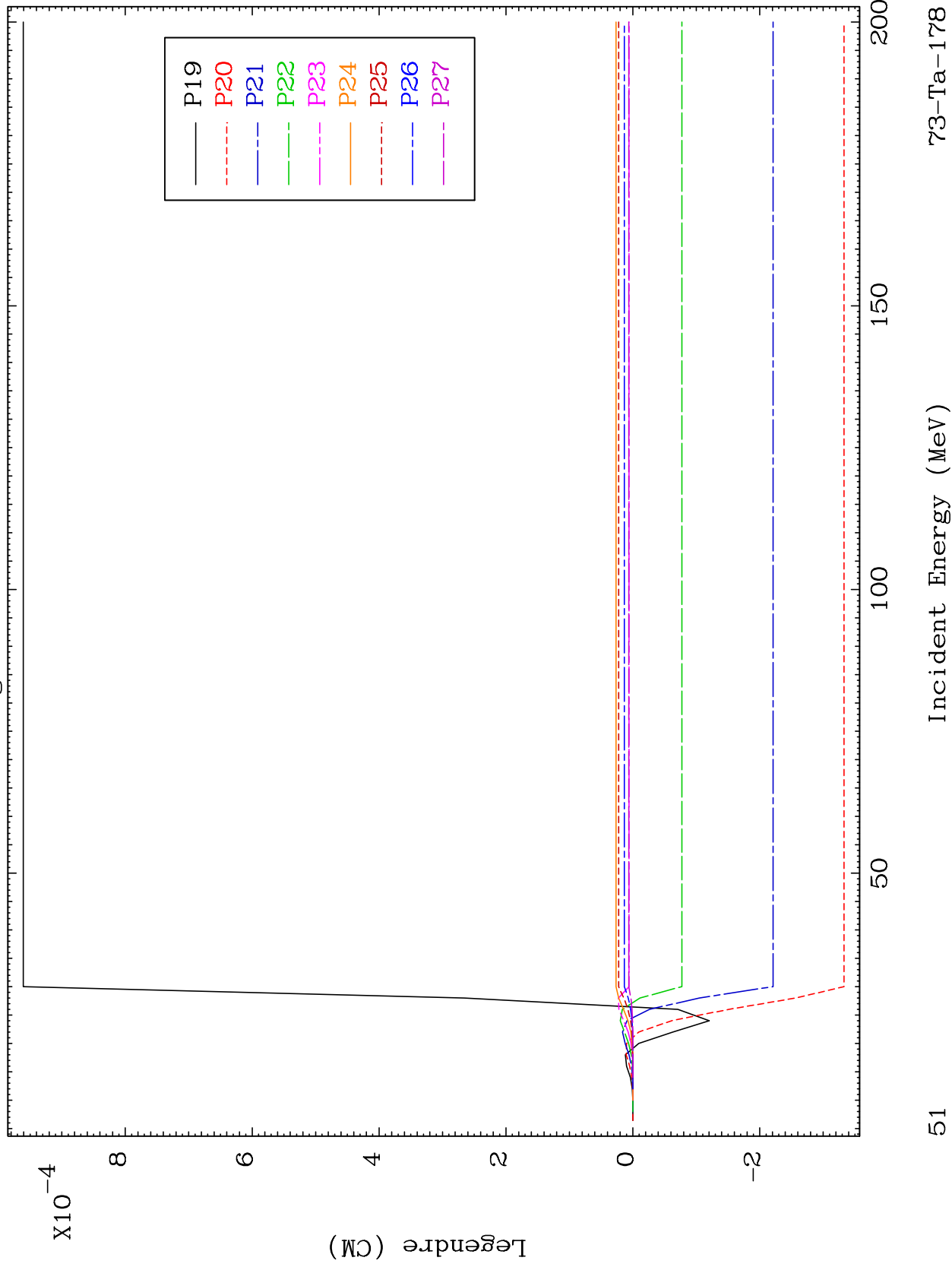
49



MAT 7319

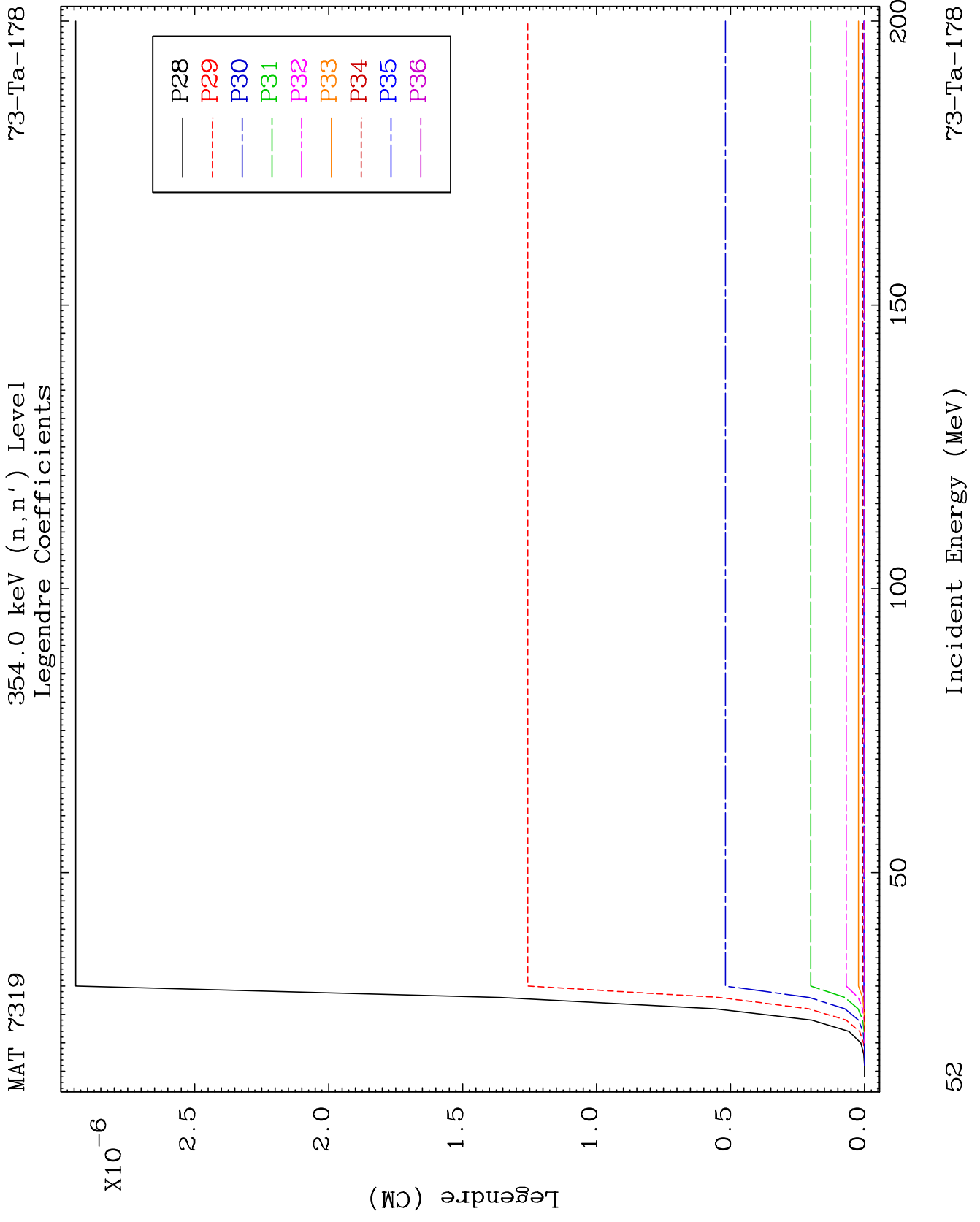
354.0 keV (n,n') Level
Legendre Coefficients

73-Ta-178



51

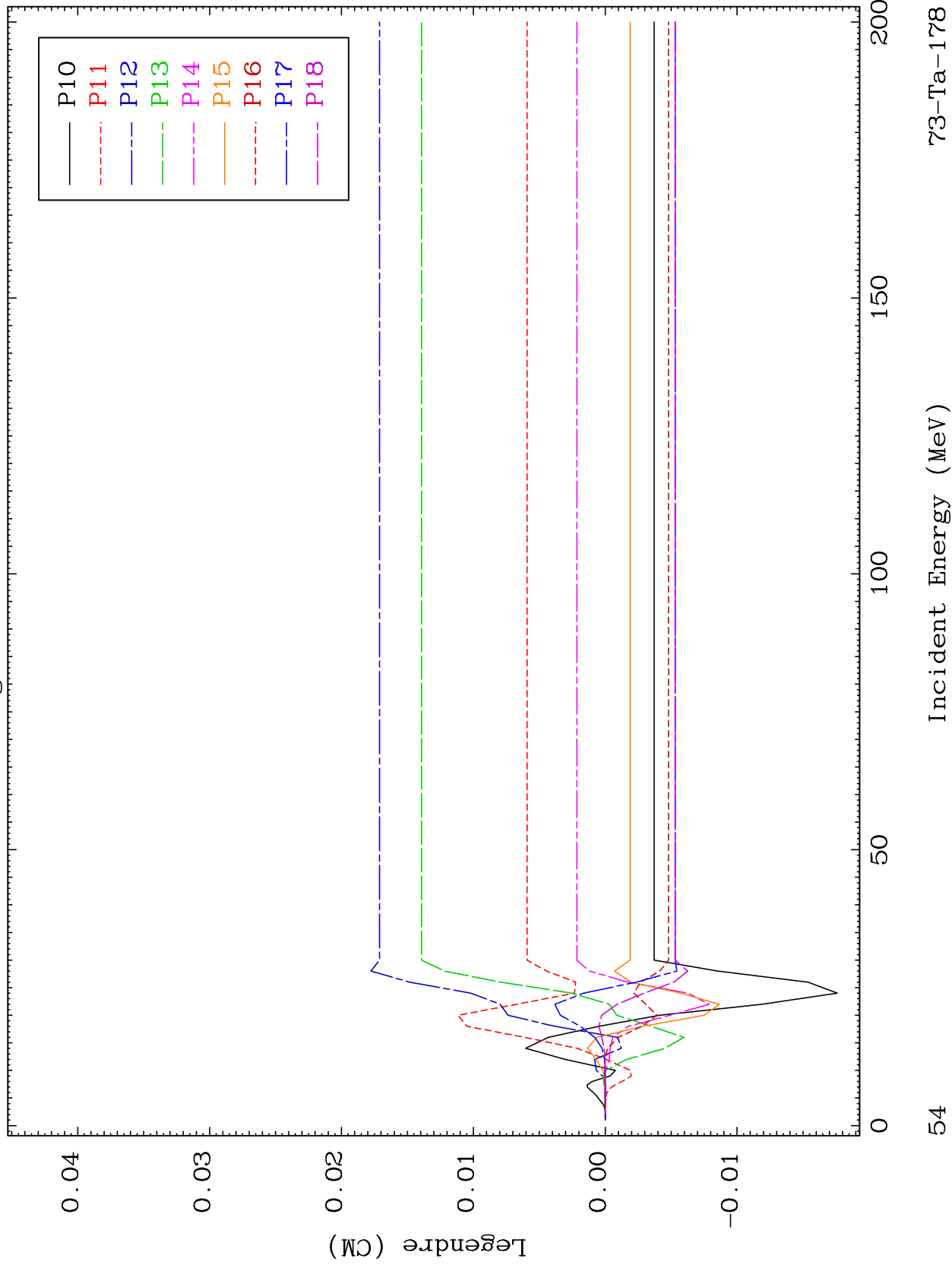
73-Ta-178



MAT 7319

356.4 keV (n,n') Level
Legendre Coefficients

73-Ta-178



54

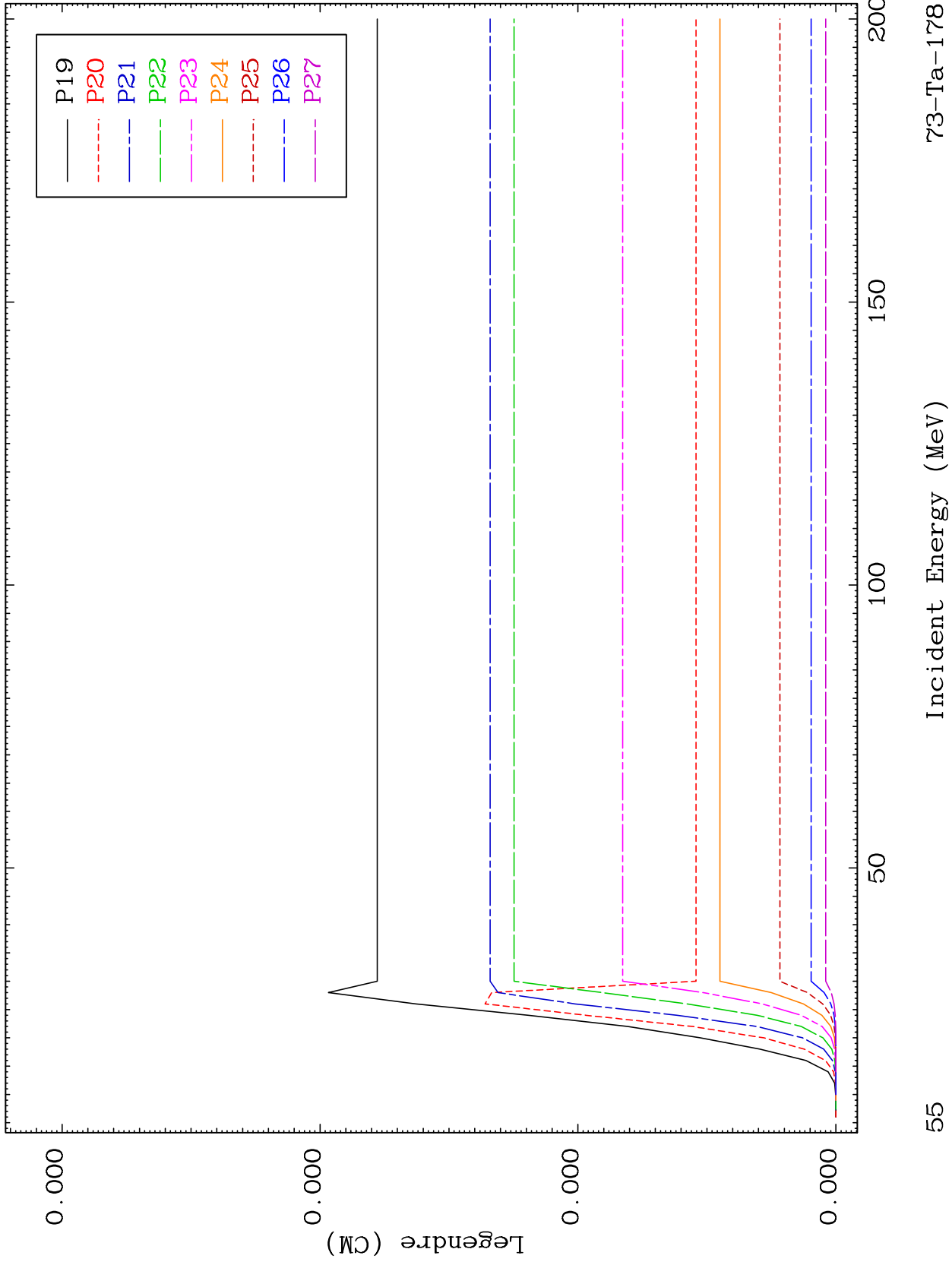
Incident Energy (MeV)

73-Ta-178

MAT 7319

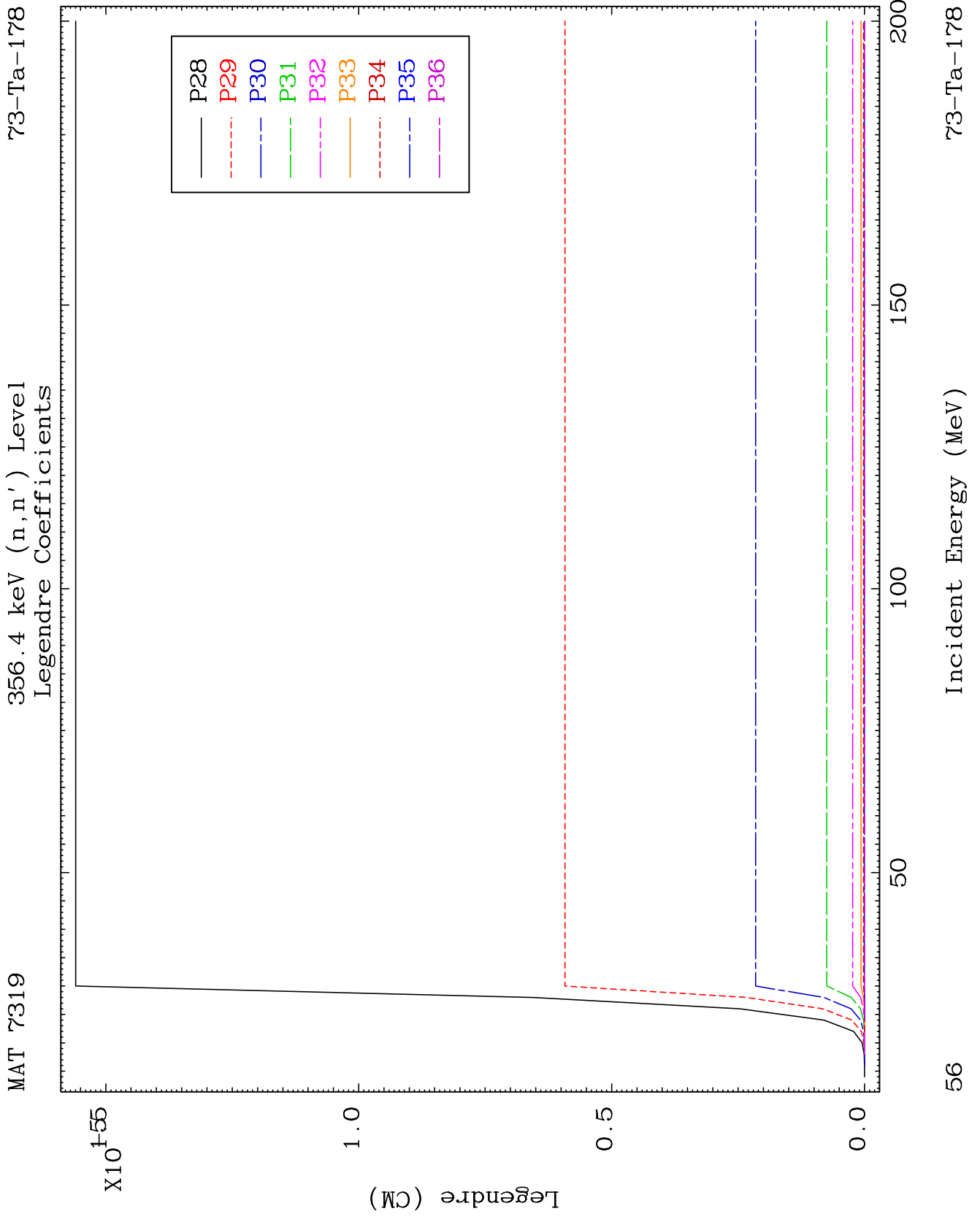
356.4 keV (n,n') Level
Legendre Coefficients

73-Ta-178



55

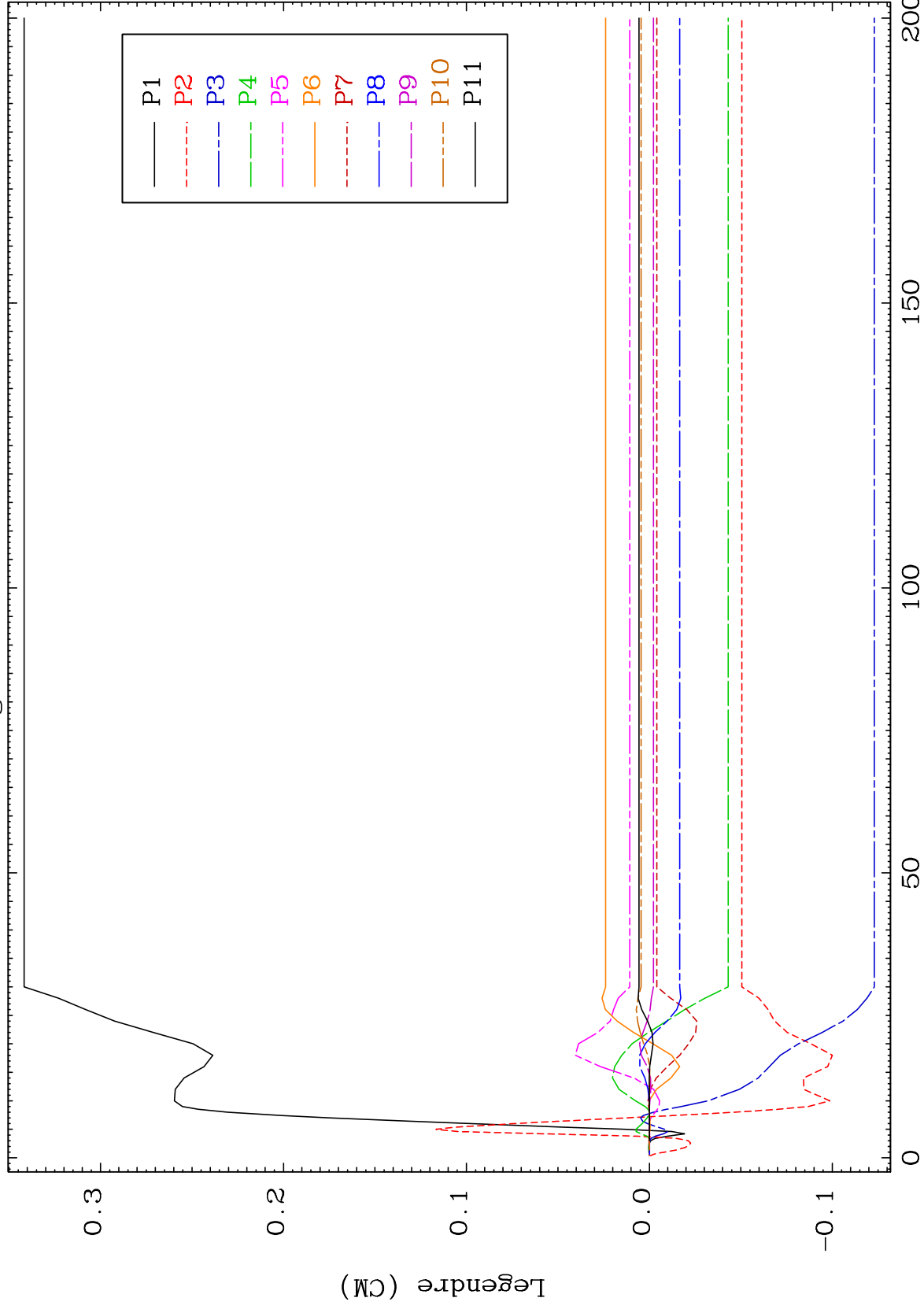
73-Ta-178



MAT 7319

357.8 keV (n,n') Level
Legendre Coefficients

73-Ta-178



57

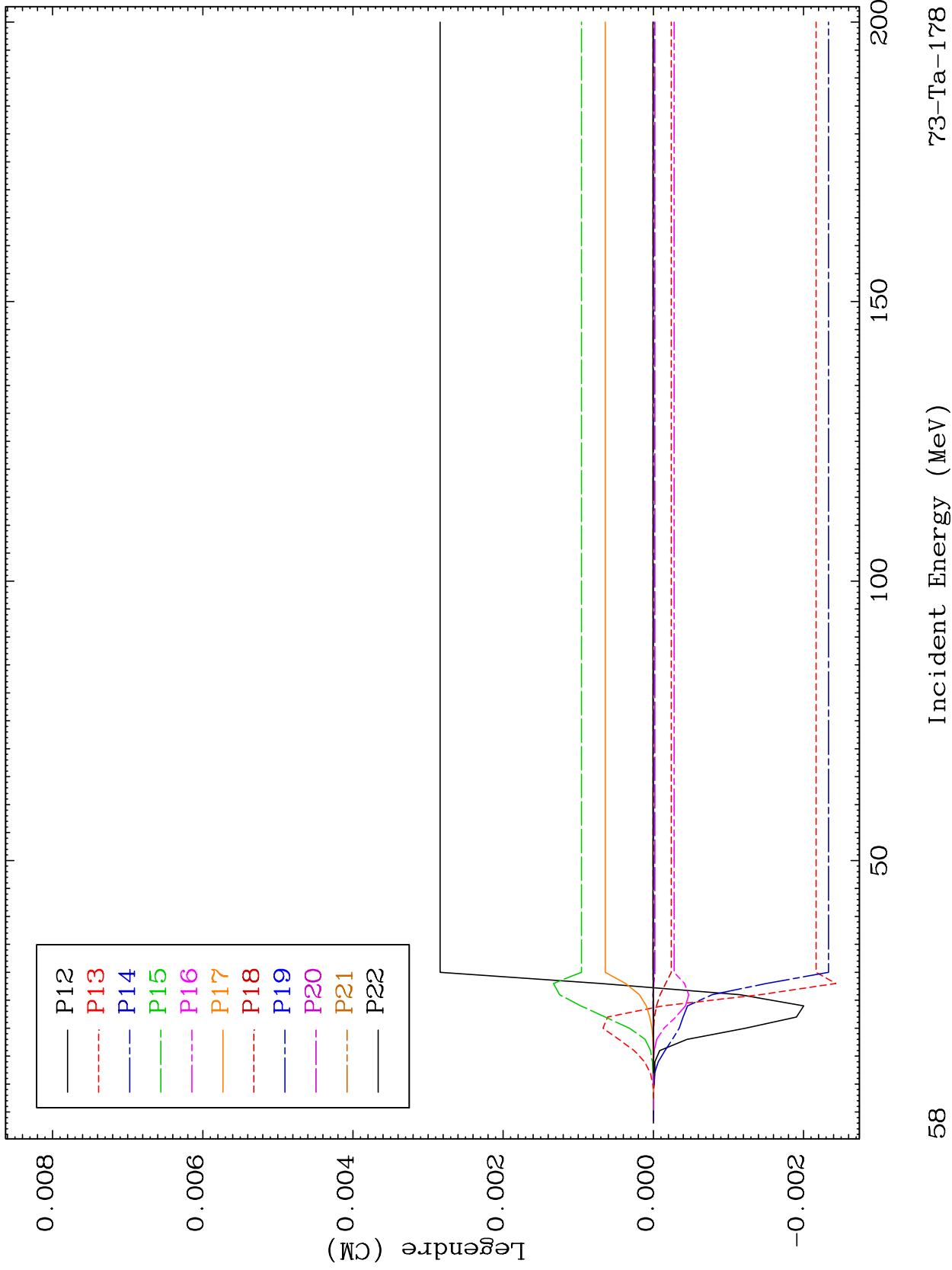
Incident Energy (MeV)

73-Ta-178

MAT 7319

357.8 keV (n,n') Level
Legendre Coefficients

73-Ta-178



58

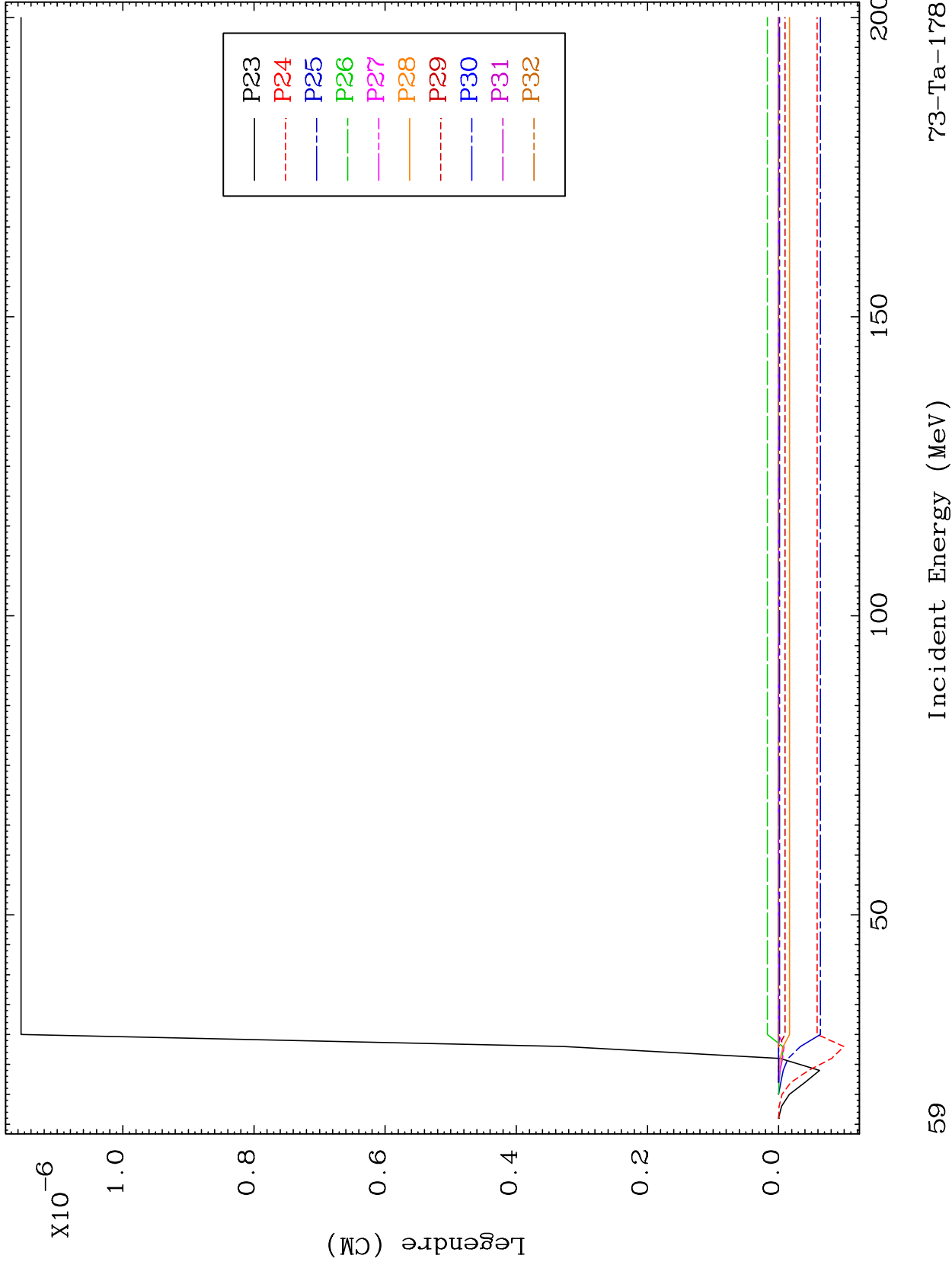
Incident Energy (MeV)

73-Ta-178

MAT 7319

357.8 keV (n,n') Level
Legendre Coefficients

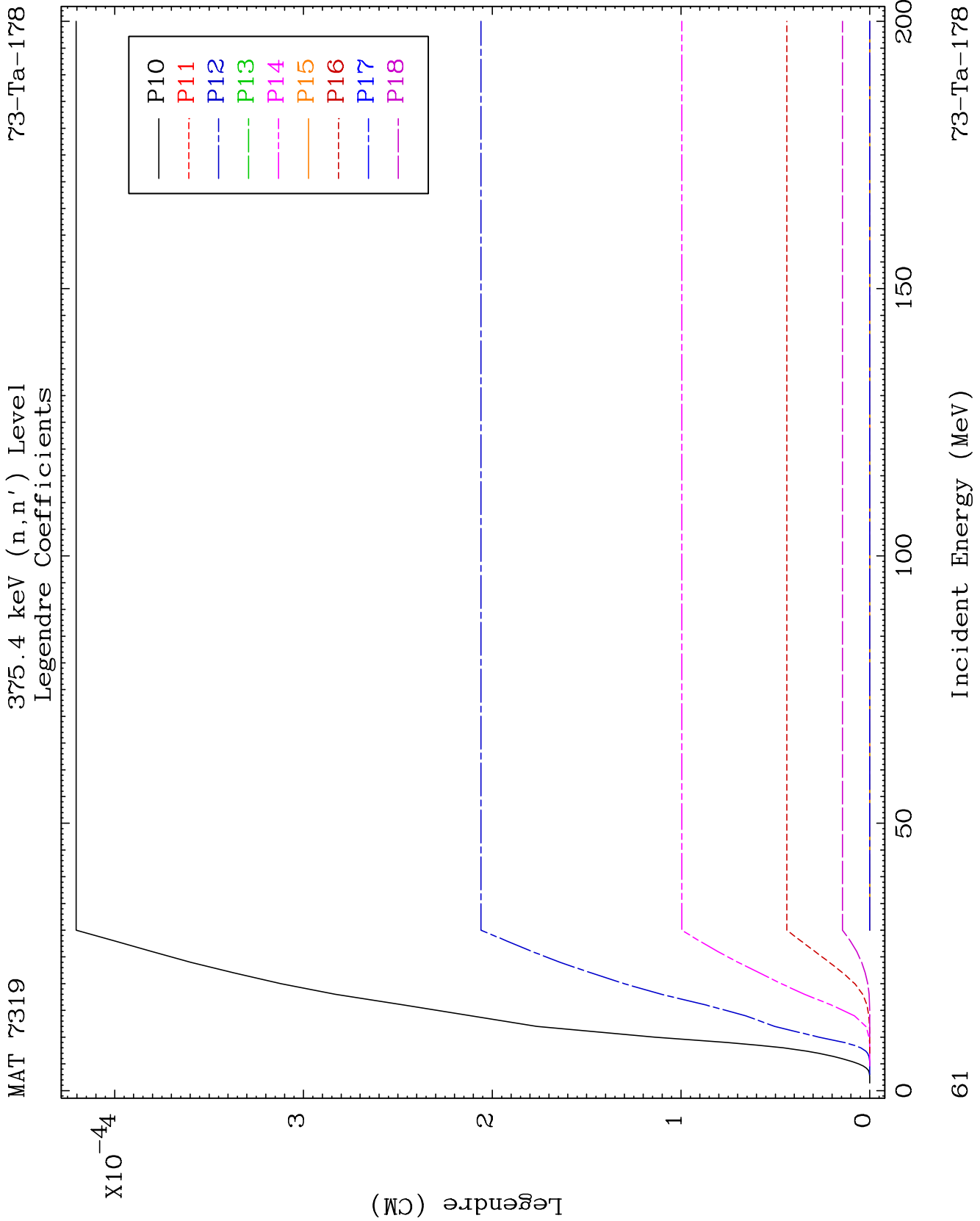
73-Ta-178

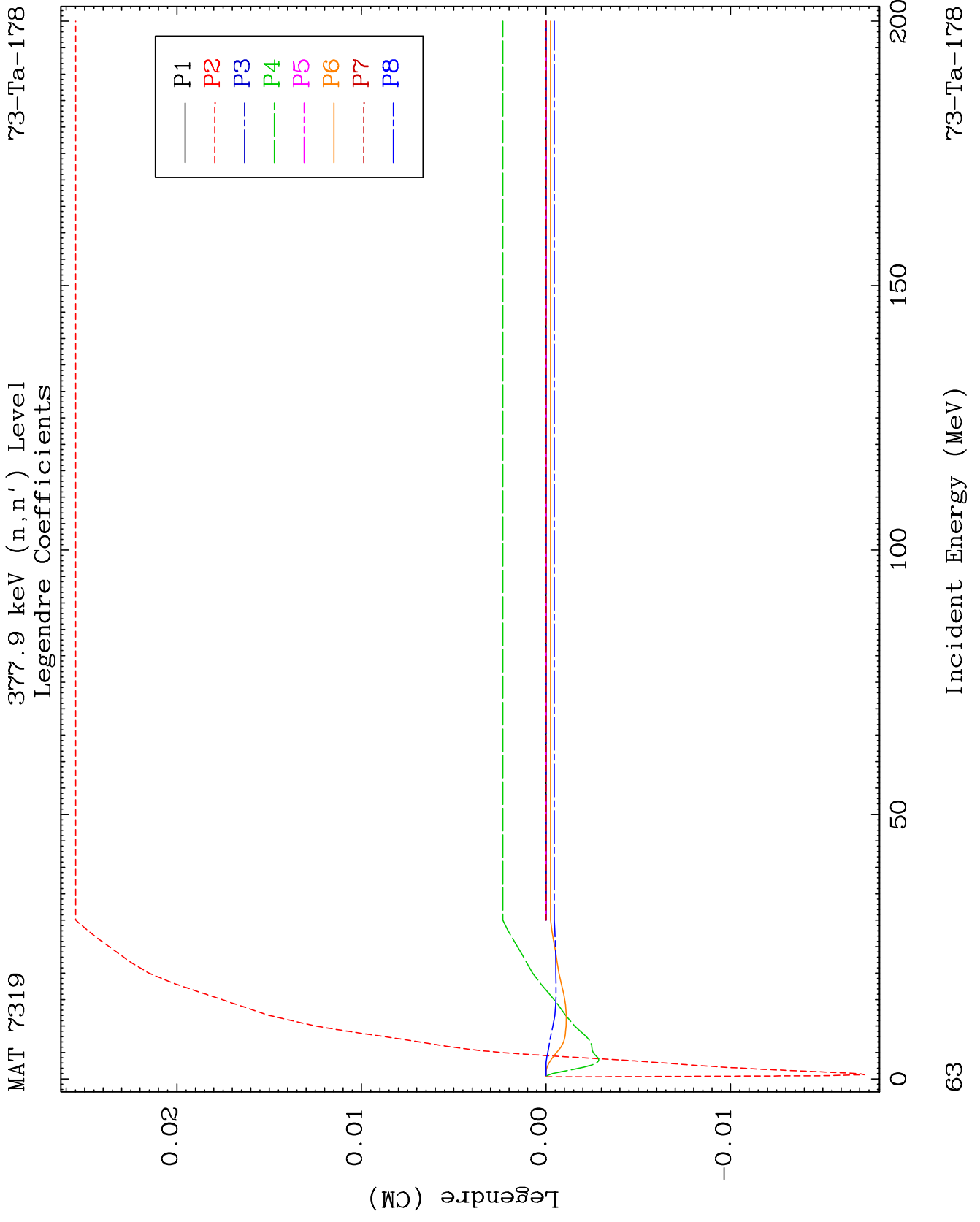


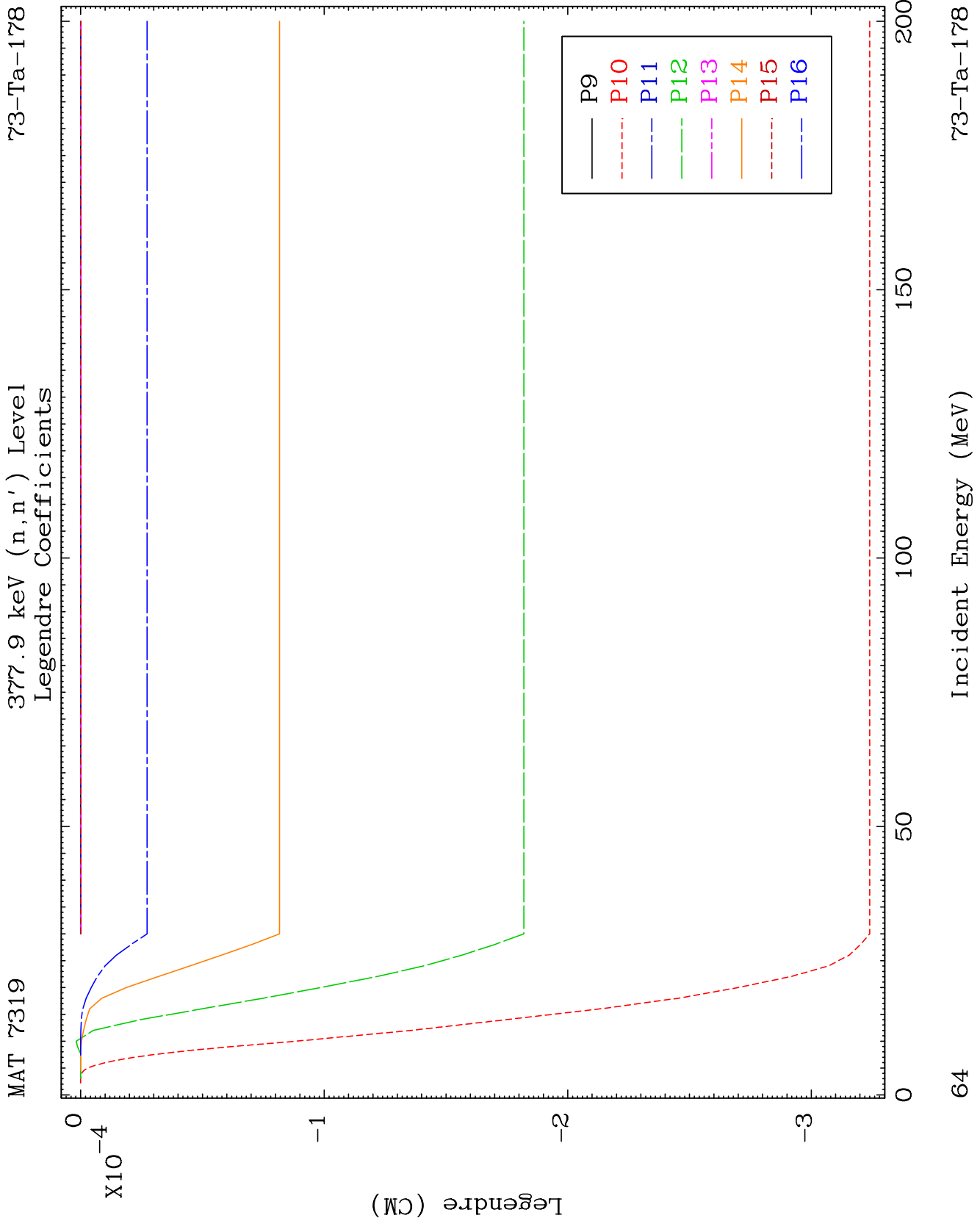
59

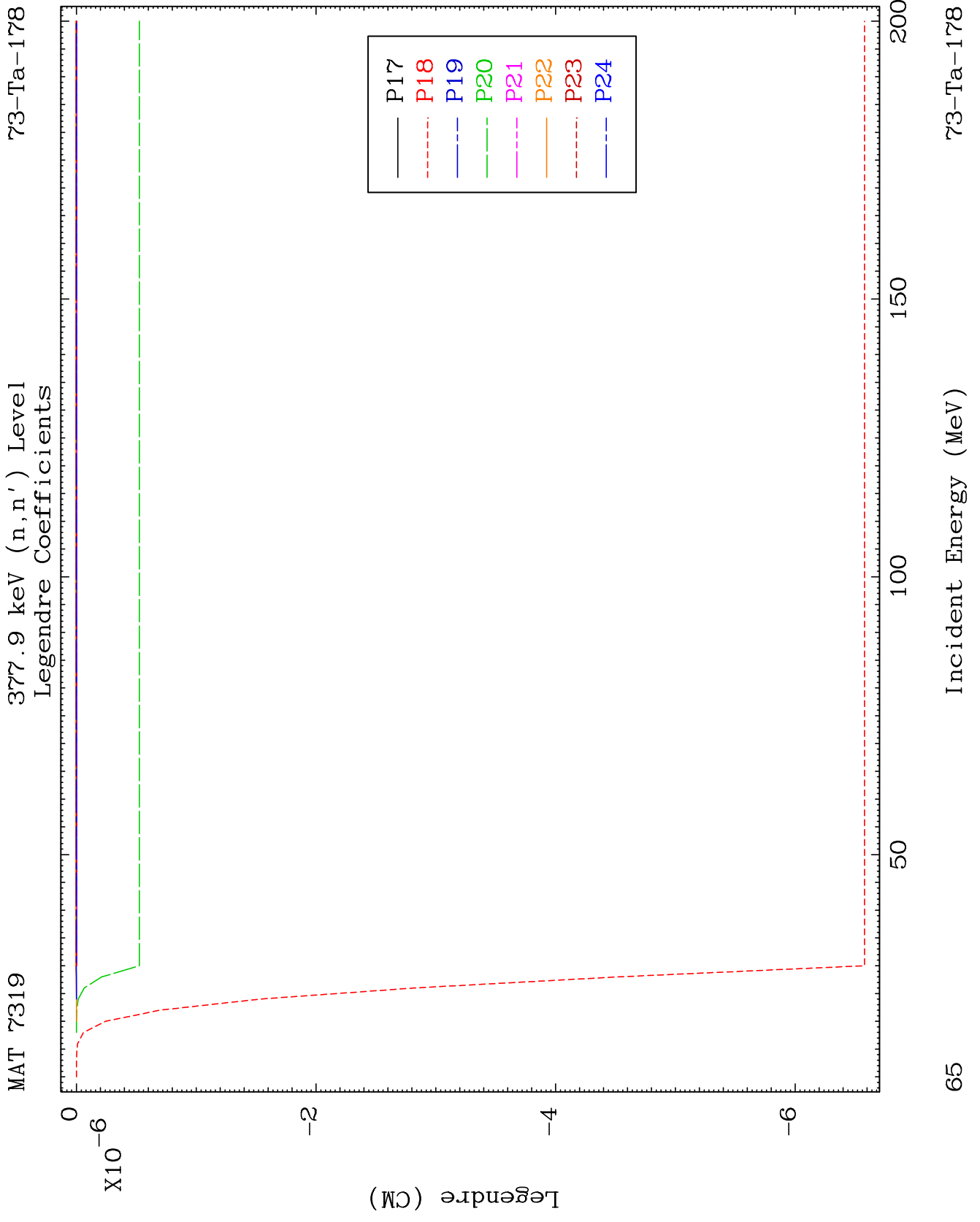
Incident Energy (MeV)

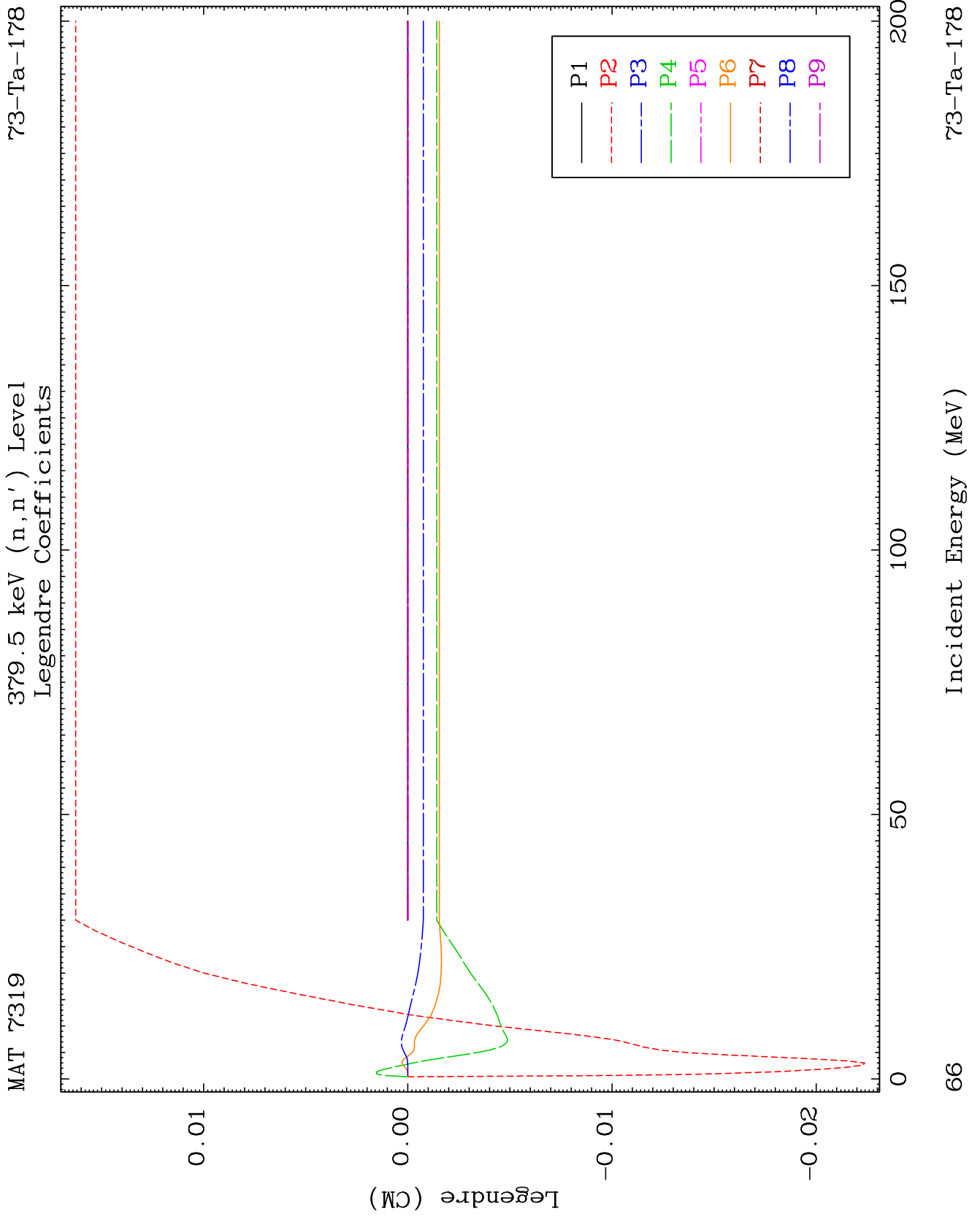
73-Ta-178

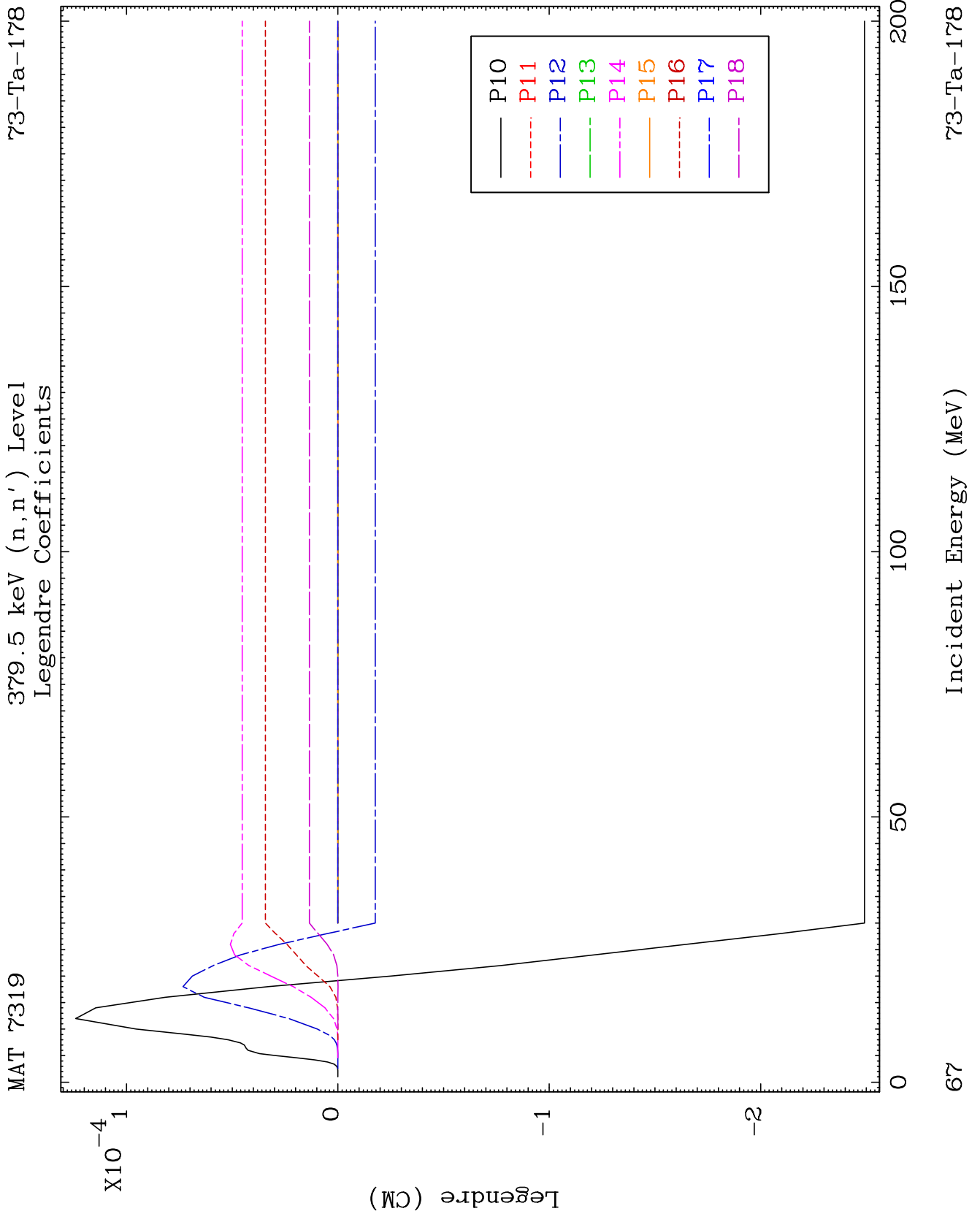


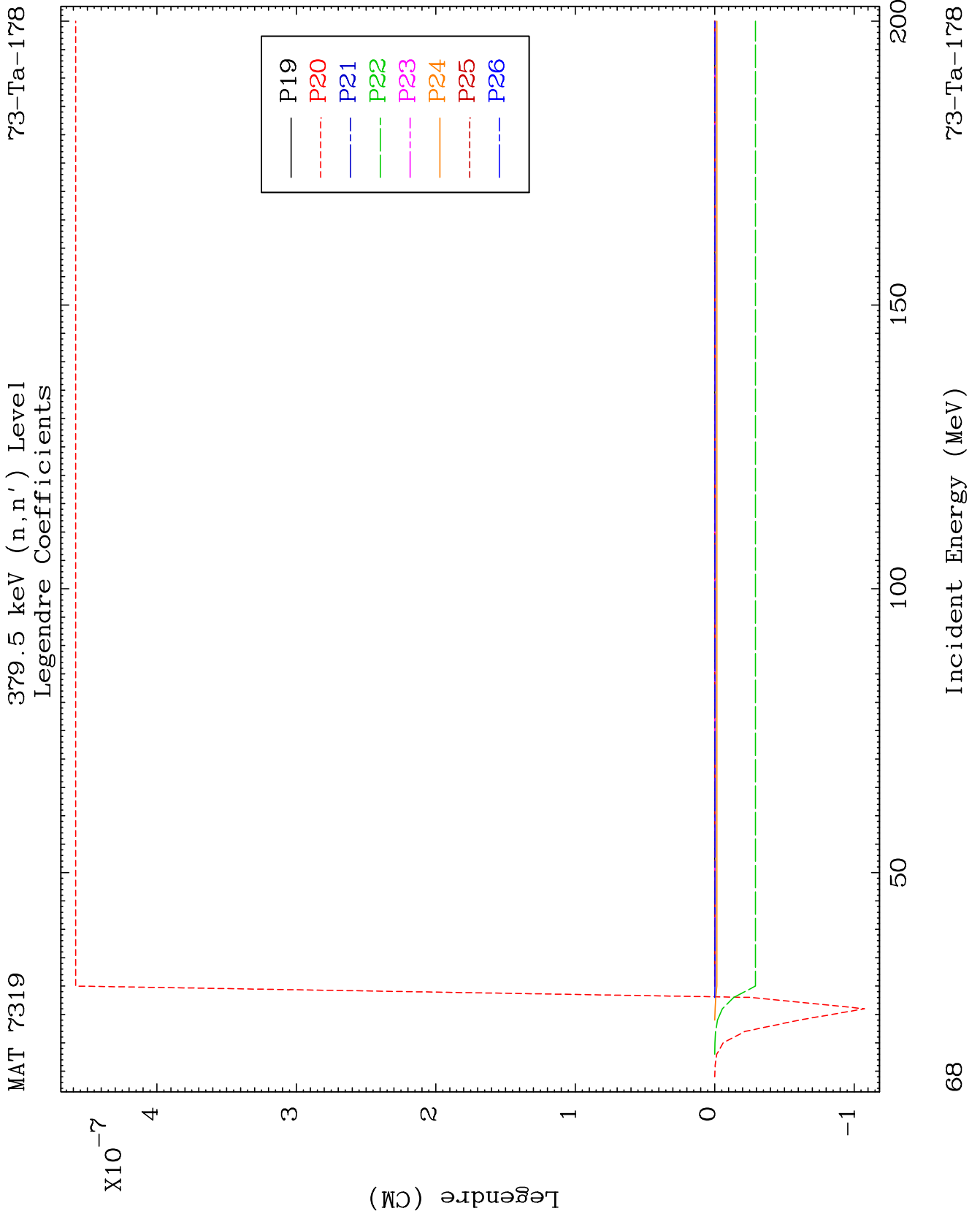








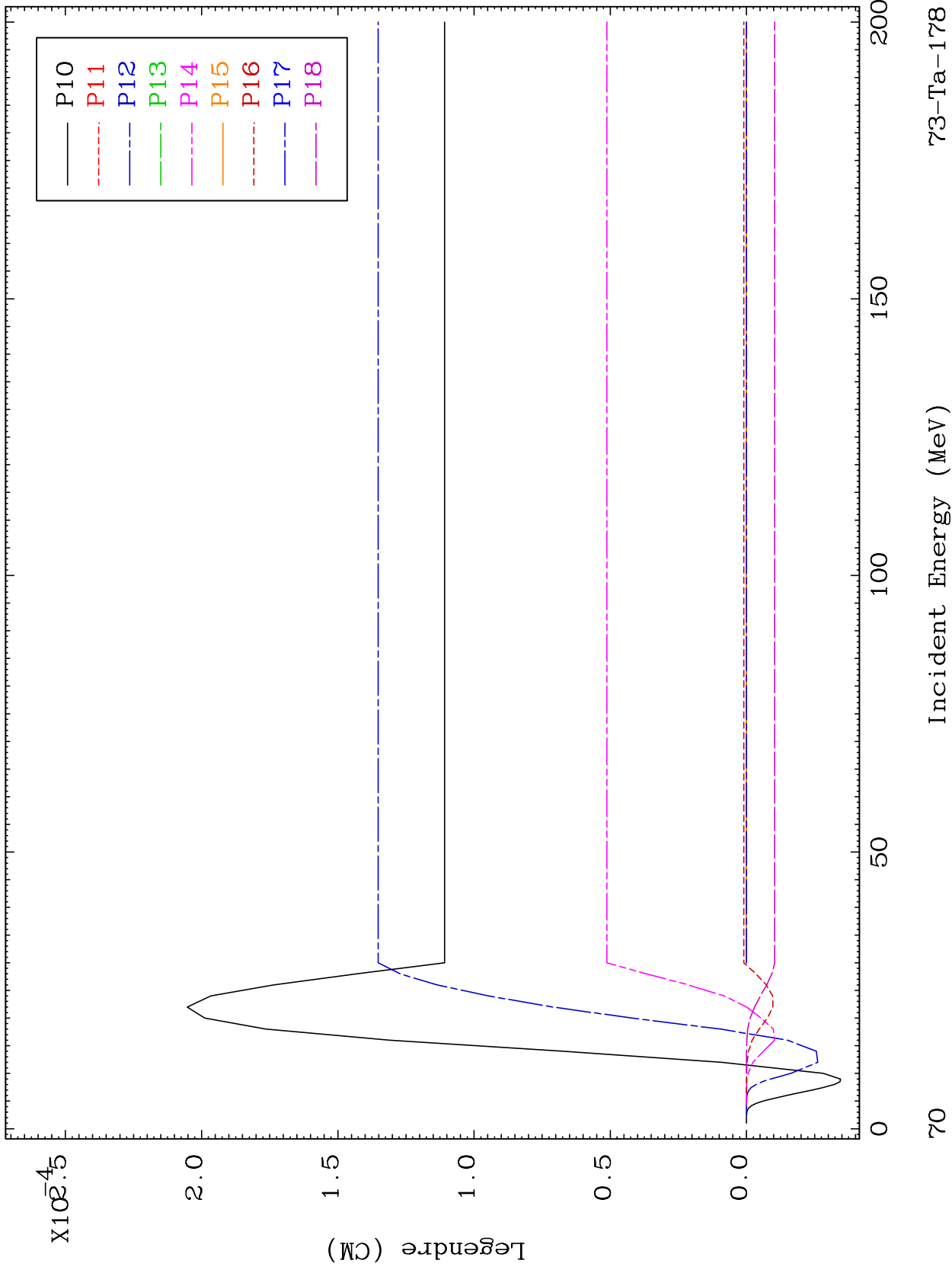


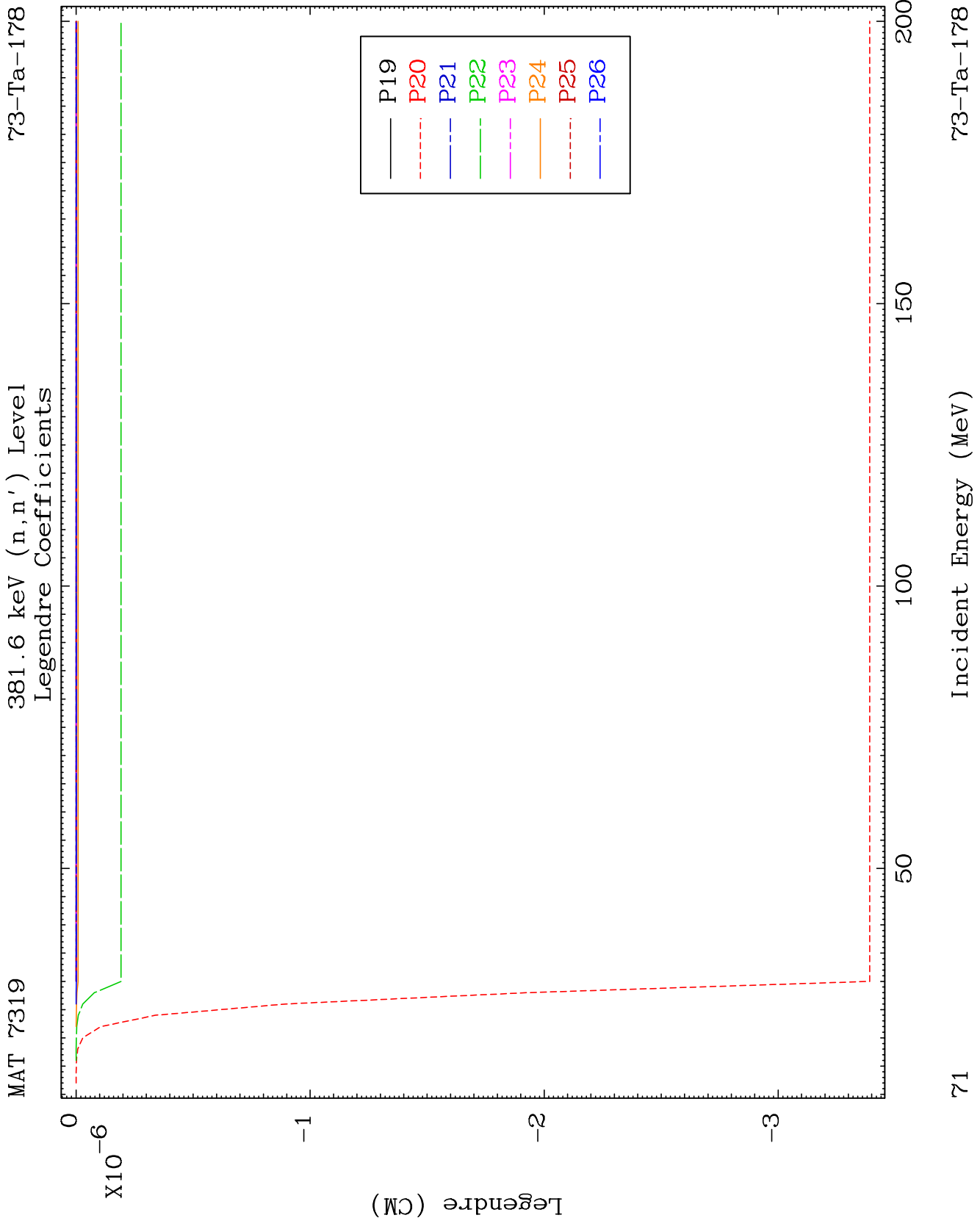


MAT 7319

381.6 keV (n,n') Level
Legendre Coefficients

73-Ta-178

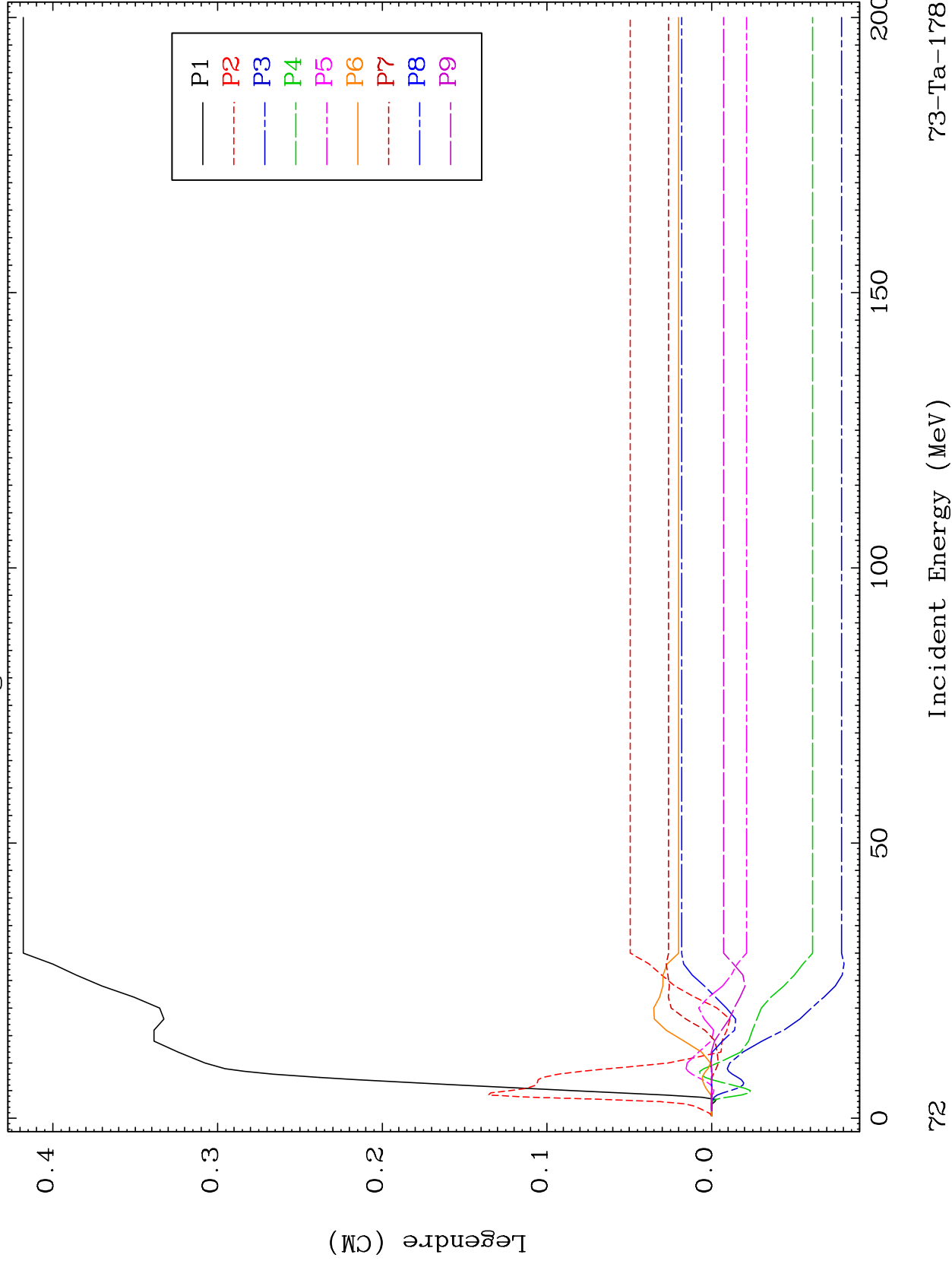




MAT 7319

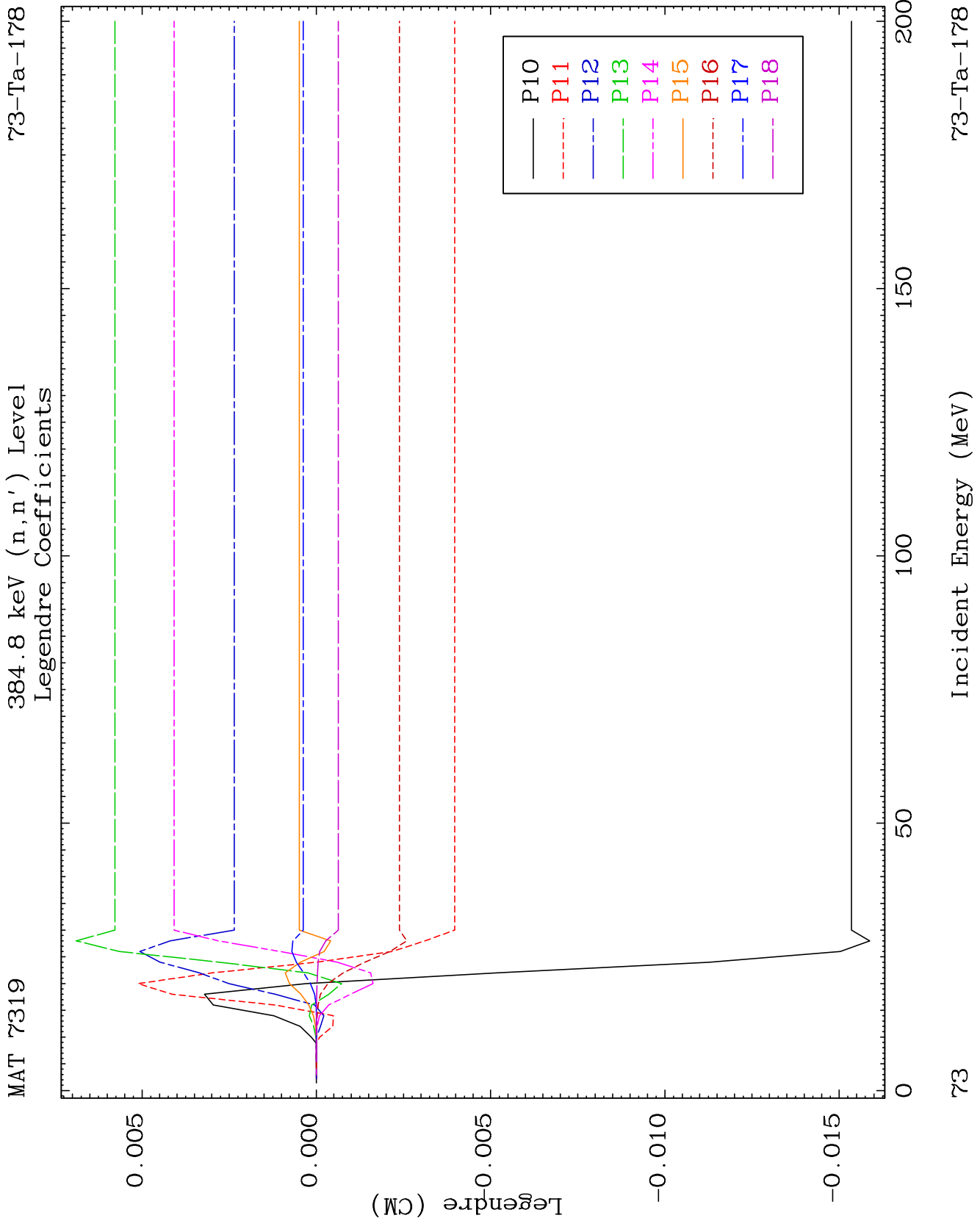
384.8 keV (n, n') Level
Legendre Coefficients

73-Ta-178



72

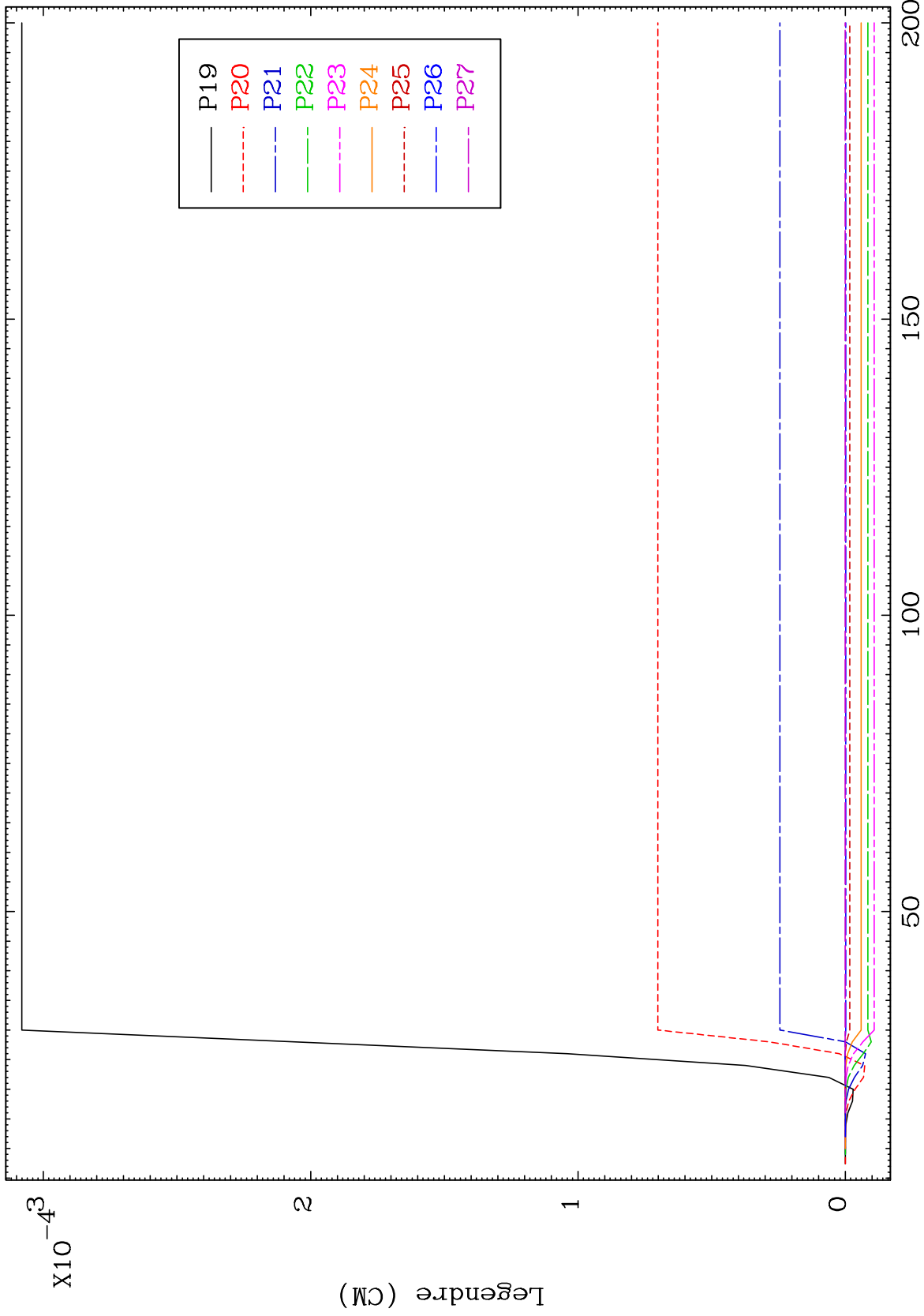
73-Ta-178



MAT 7319

384.8 keV (n, n') Level
Legendre Coefficients

73-Ta-178



74

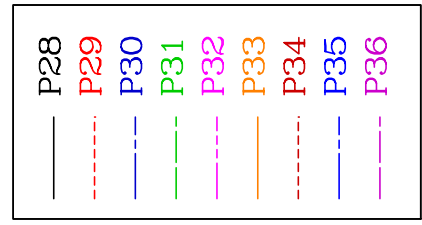
Incident Energy (MeV)

73-Ta-178

MAT 7319

384.8 keV (n,n') Level
Legendre Coefficients

73-Ta-178



$\times 10^{-7}$
1.5
1.0

Legendre (CM)

0.5

0.0

50

100

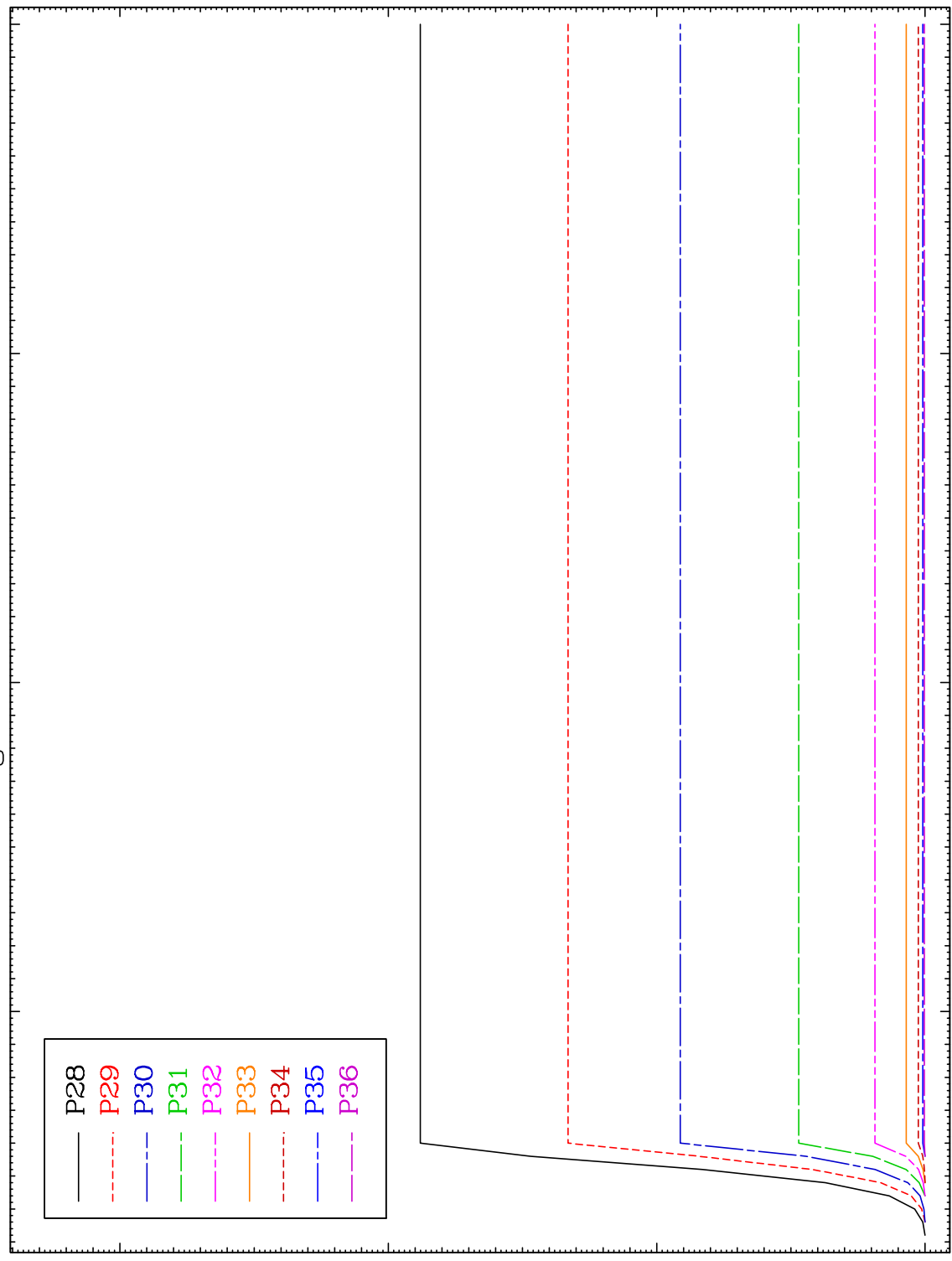
150

200

75

Incident Energy (MeV)

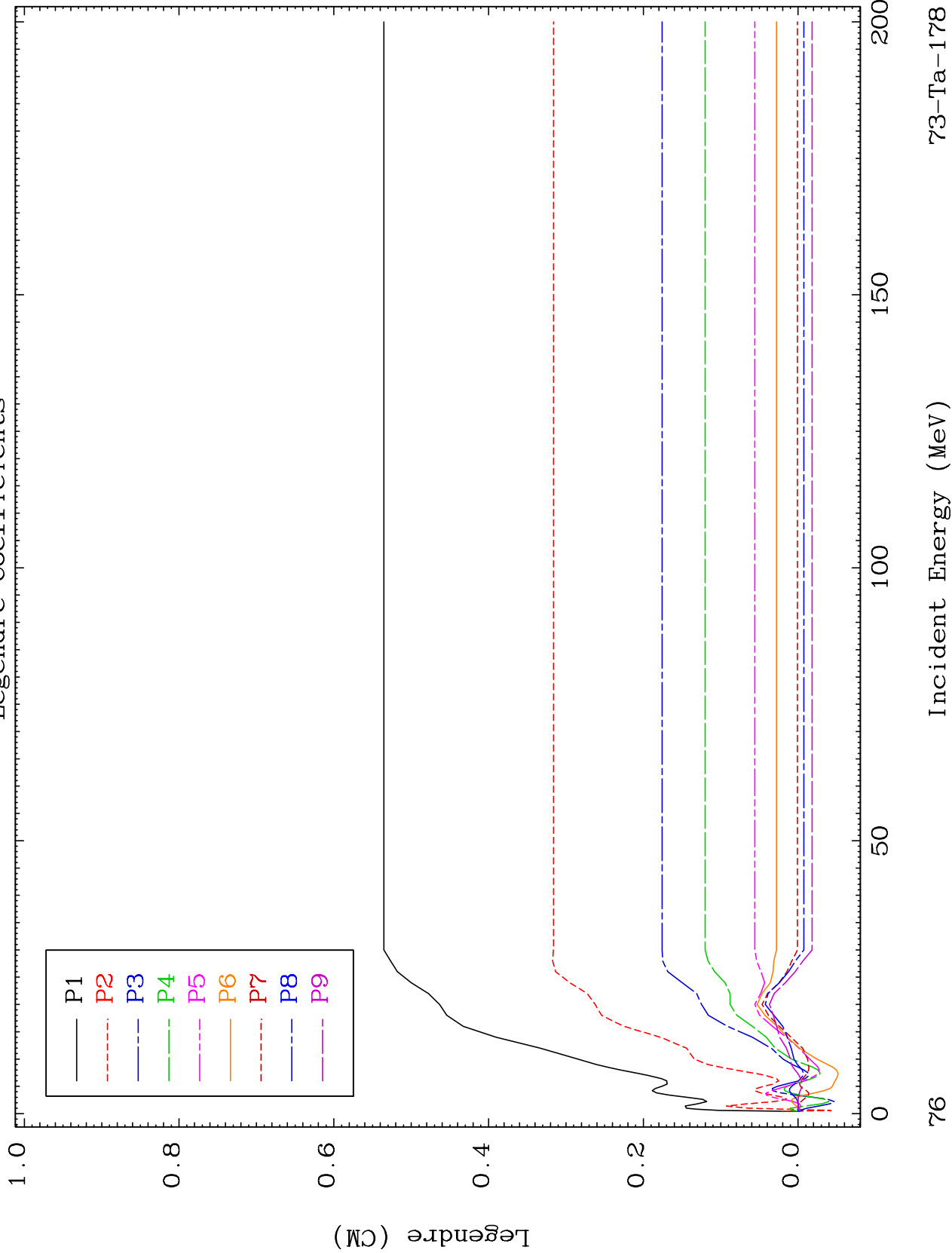
73-Ta-178



MAT 7319

393.6 keV (n,n') Level
Legendre Coefficients

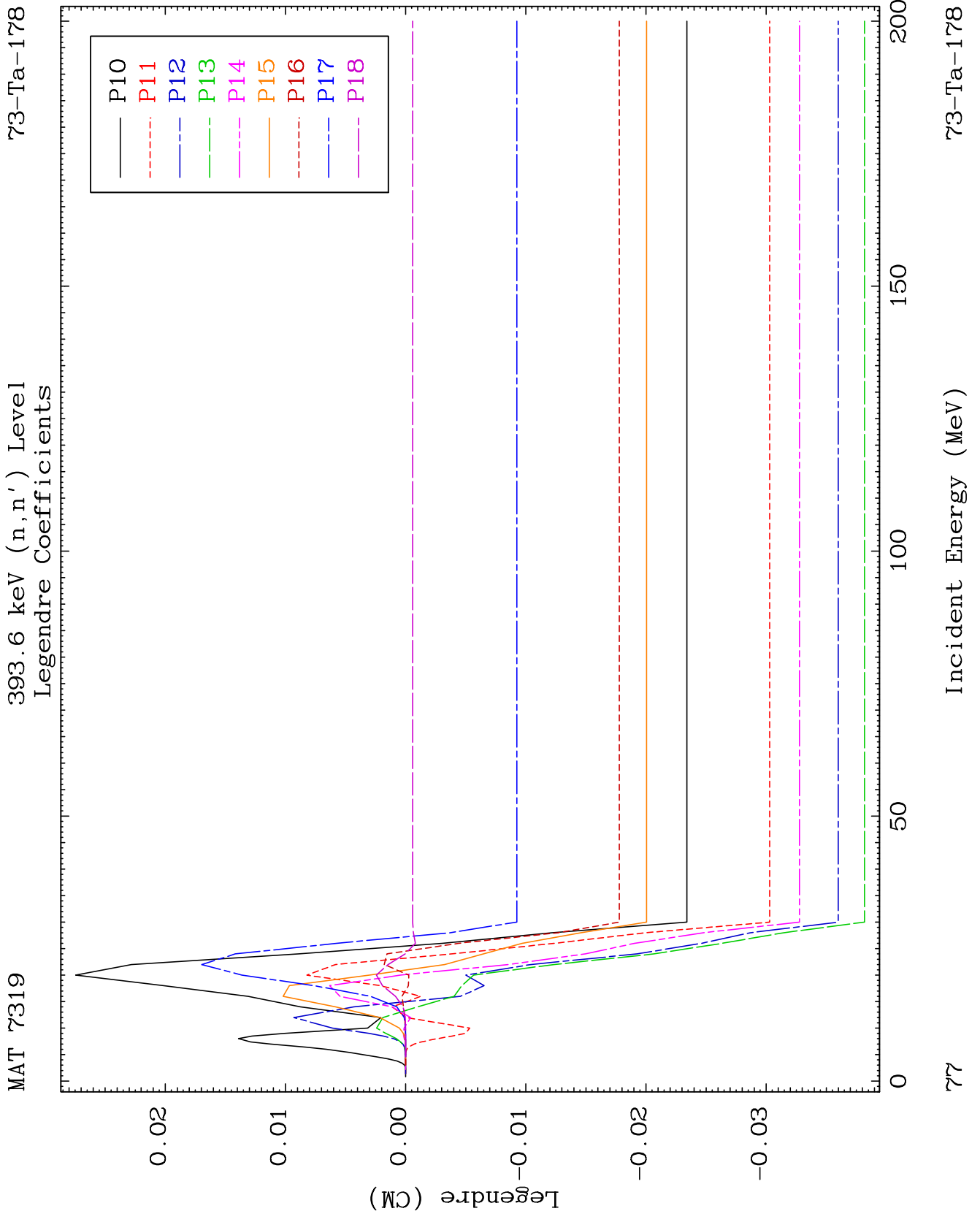
73-Ta-178

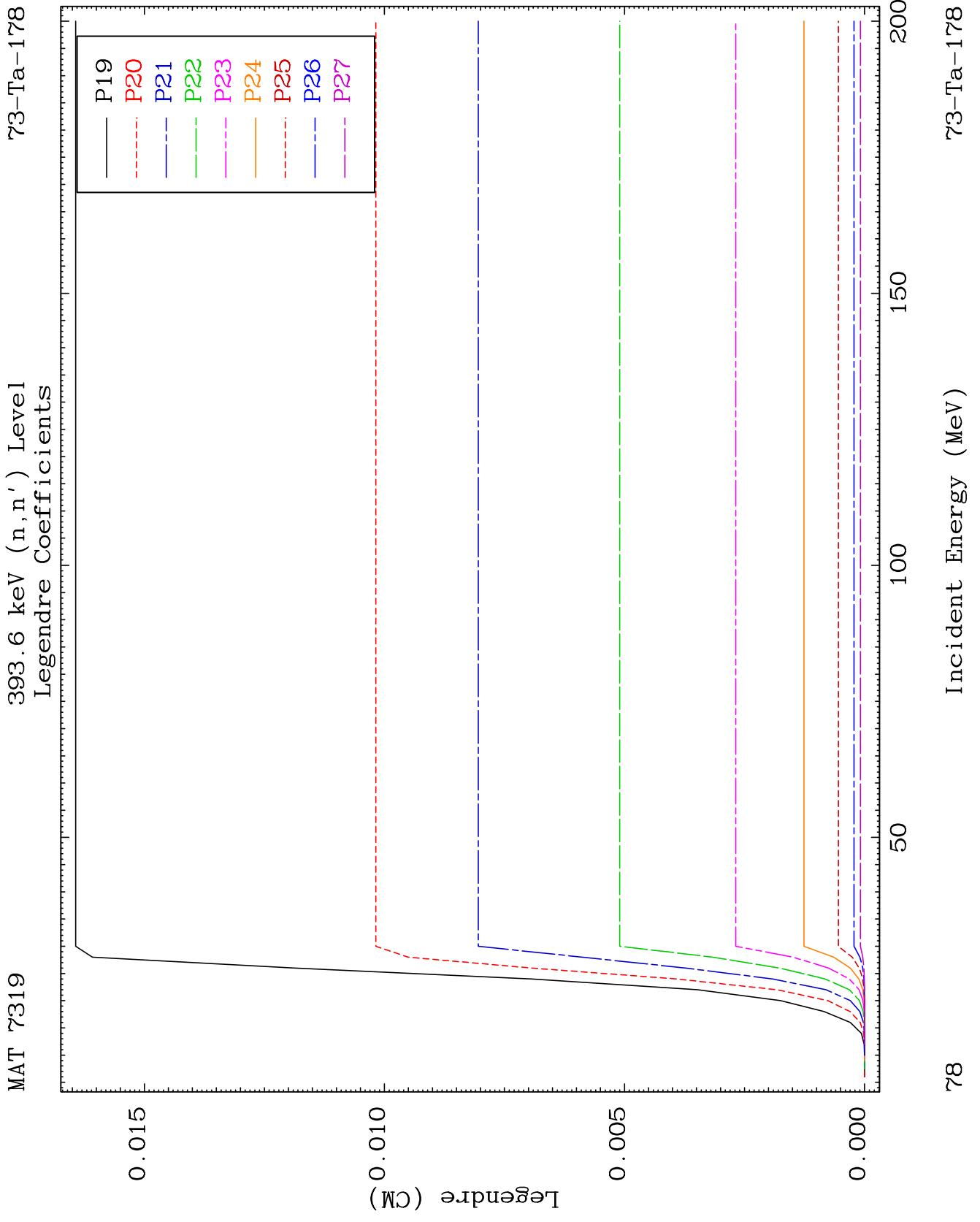


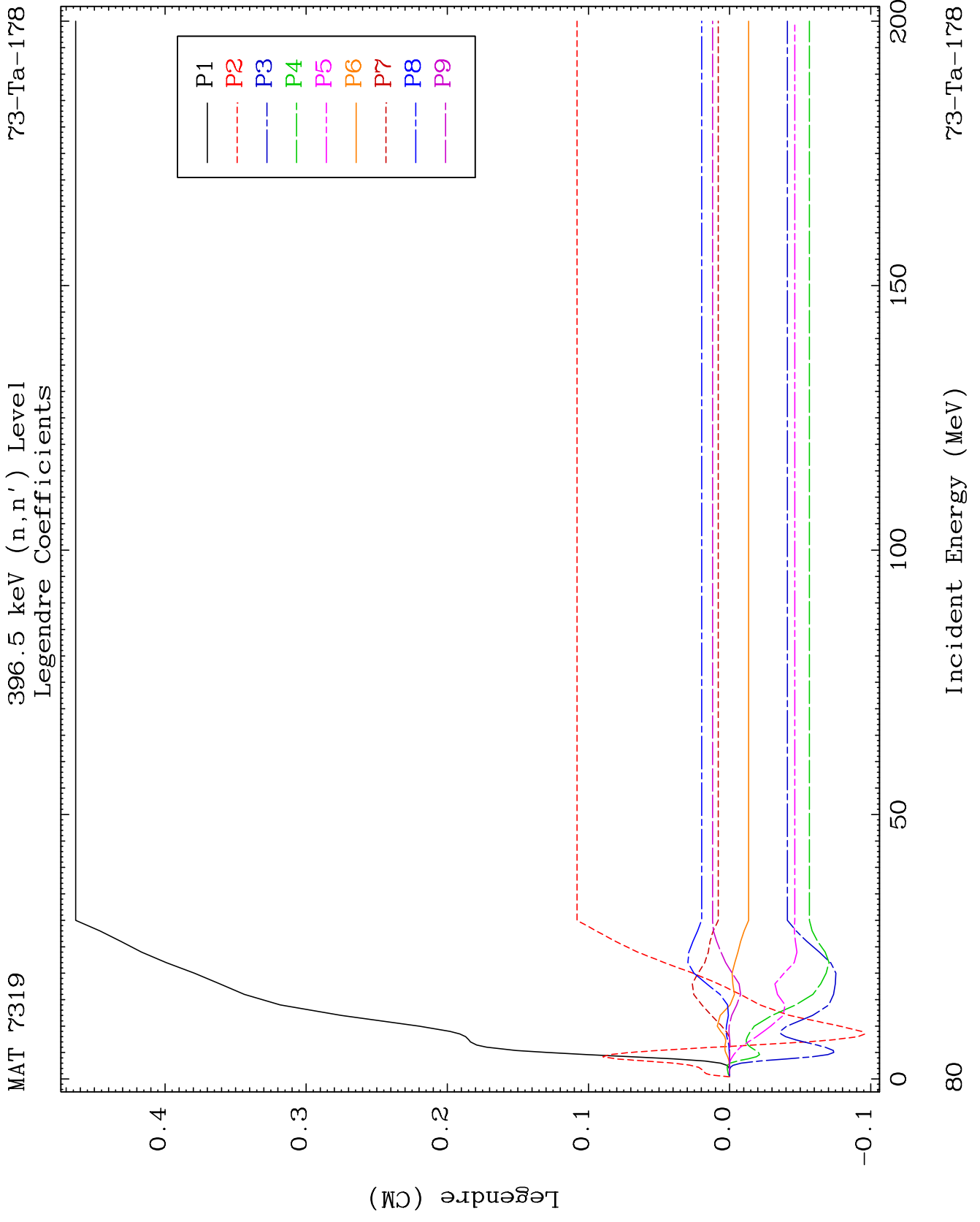
76

Incident Energy (MeV)

73-Ta-178



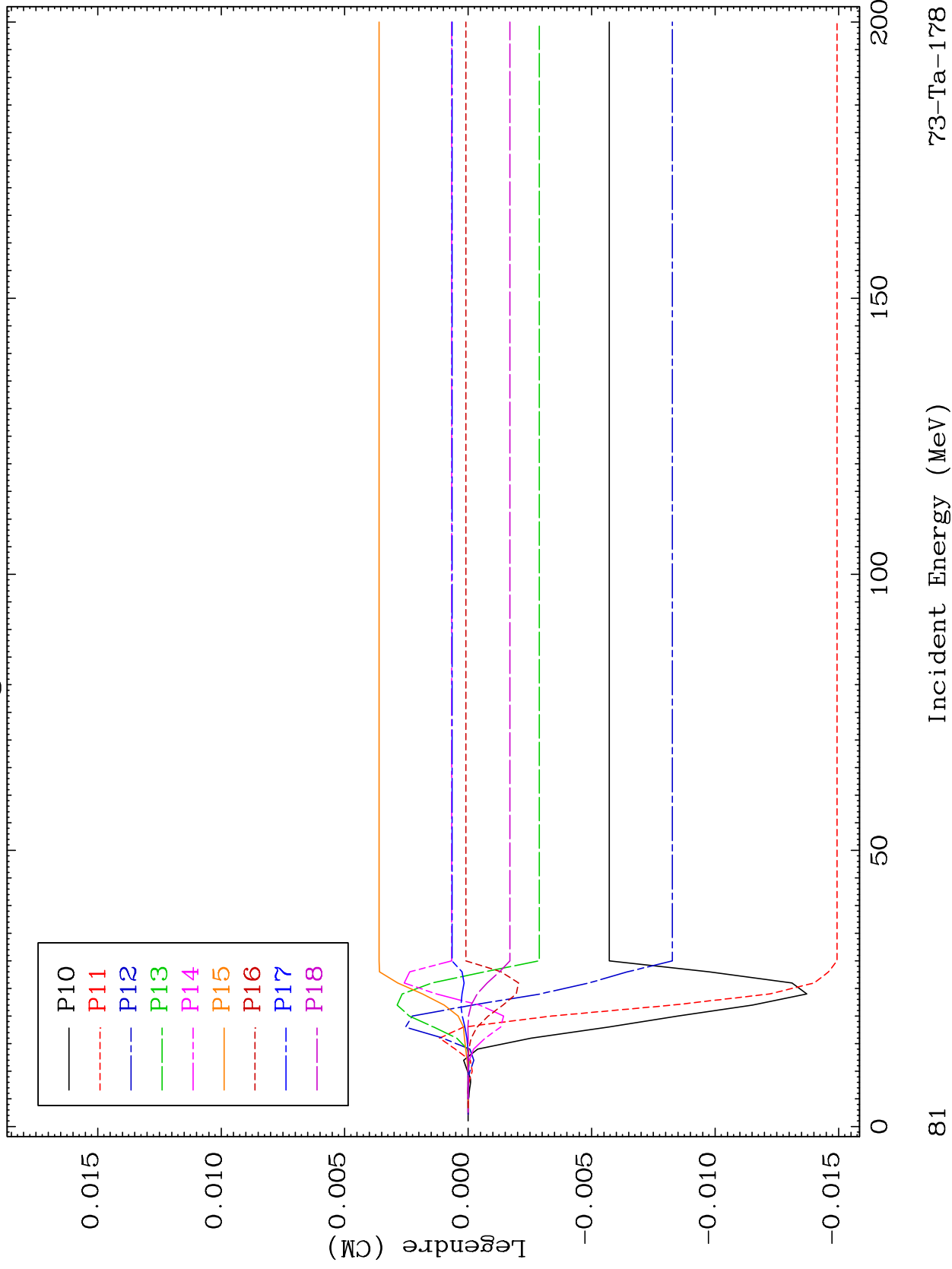




MAT 7319

396.5 keV (n,n') Level
Legendre Coefficients

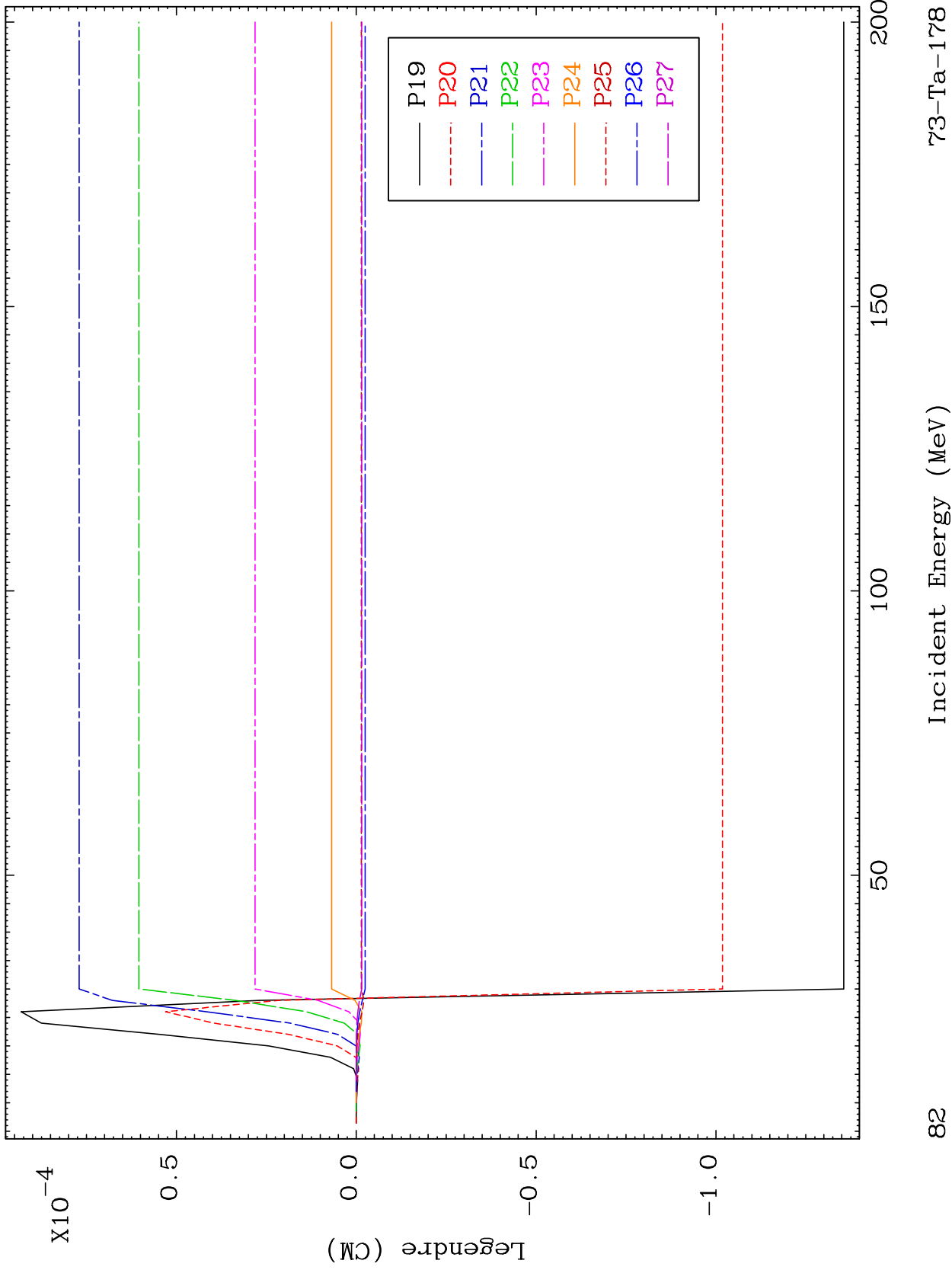
73-Ta-178

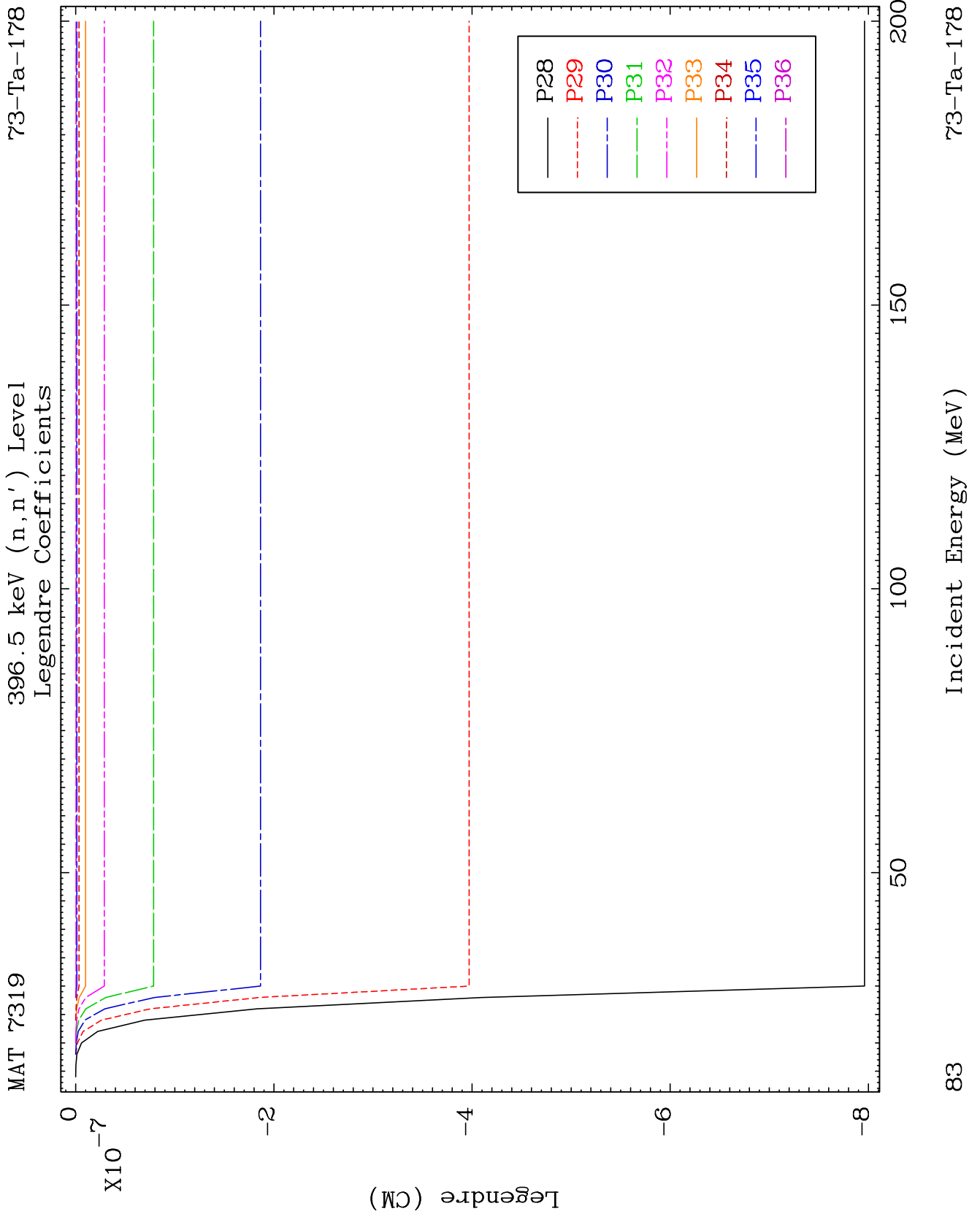


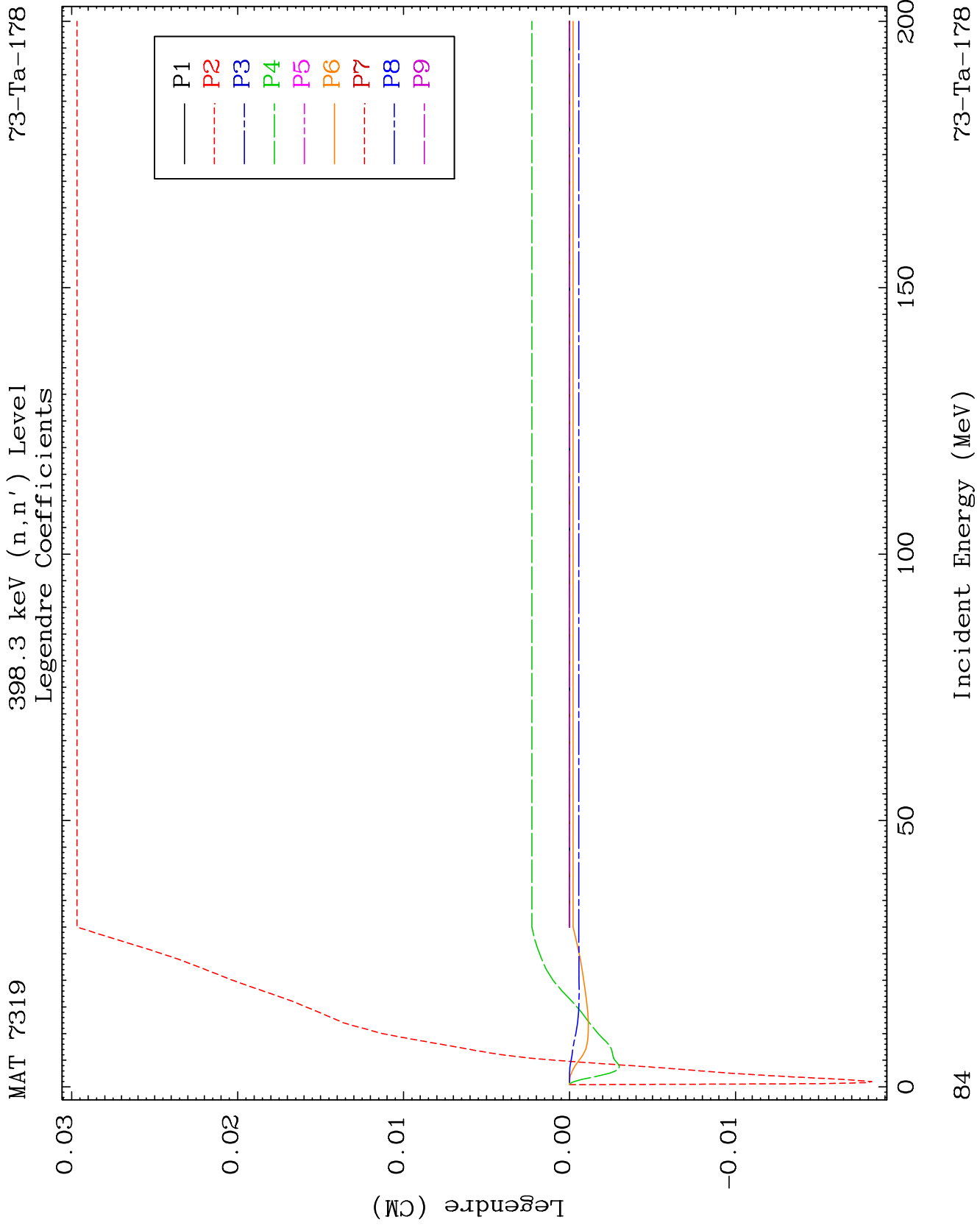
81

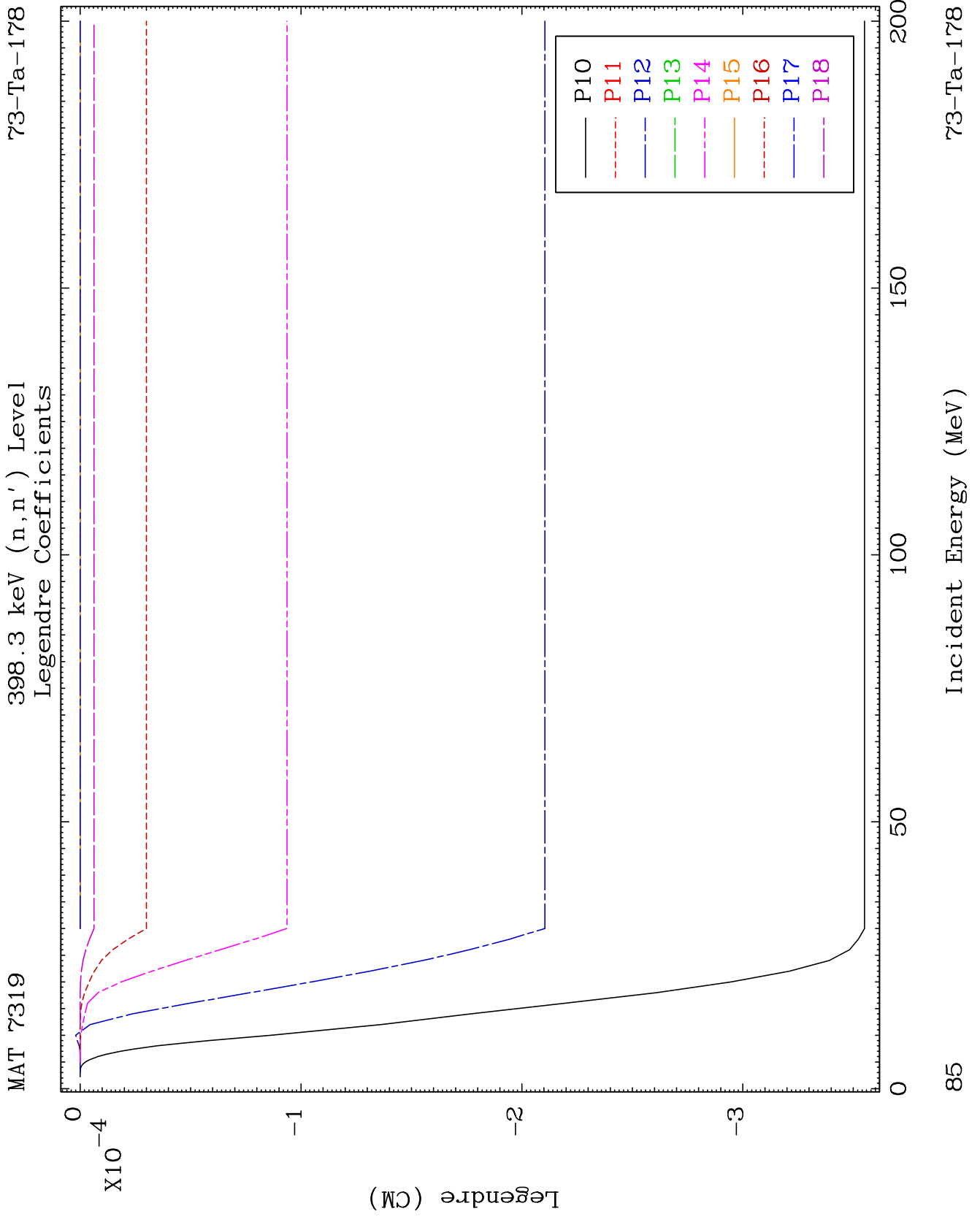
Incident Energy (MeV)

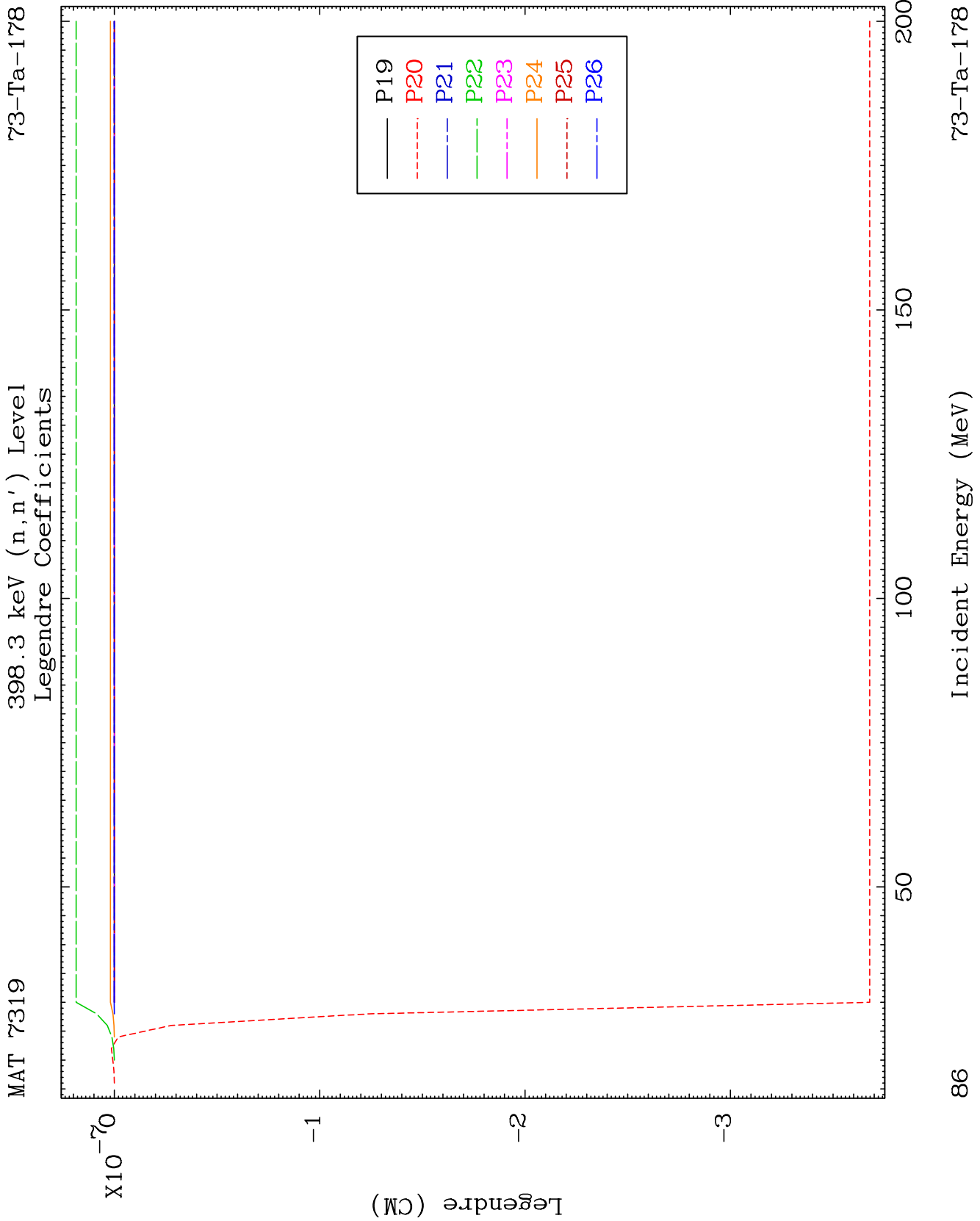
73-Ta-178







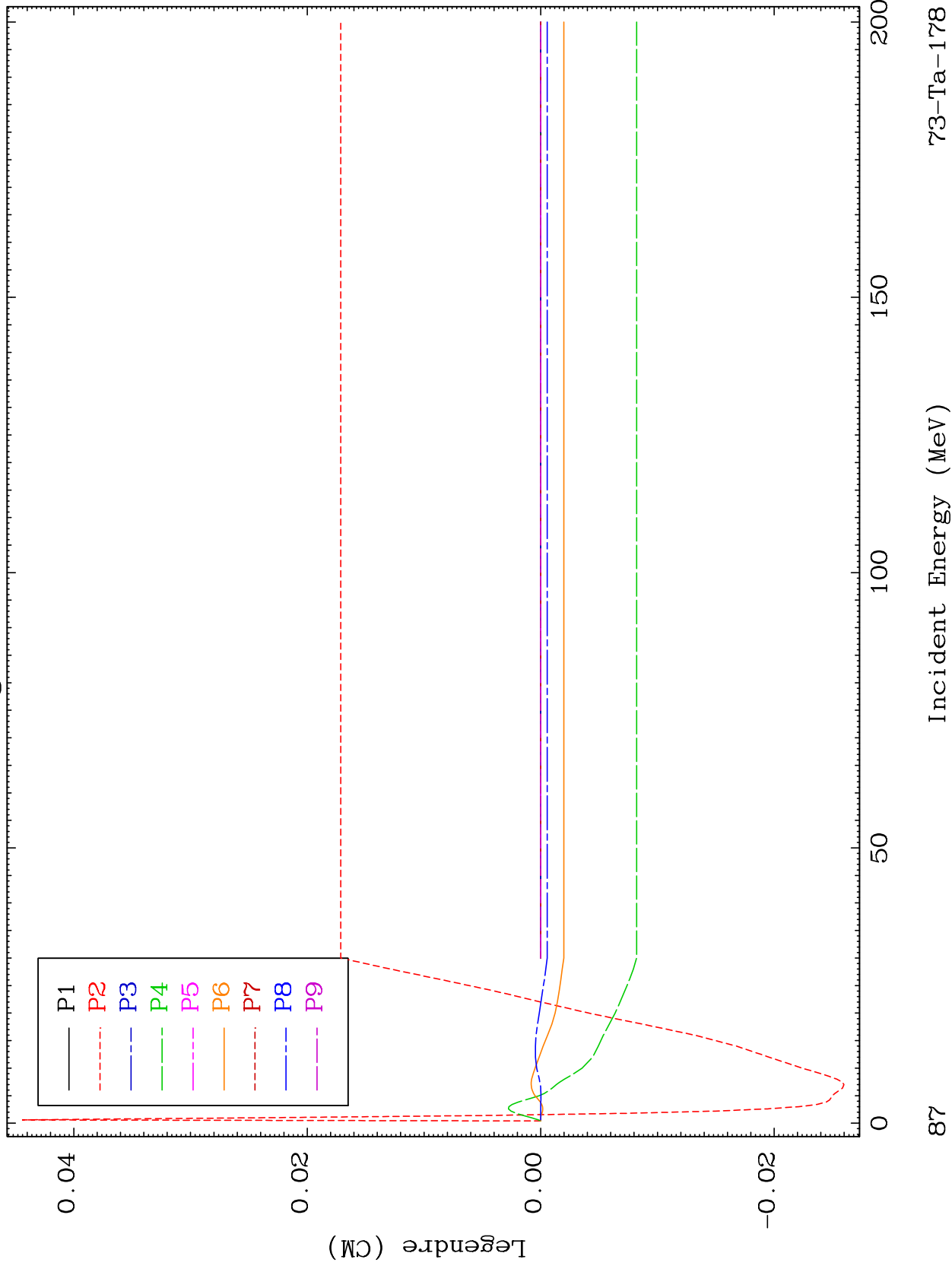




MAT 7319

401.0 keV (n,n') Level
Legendre Coefficients

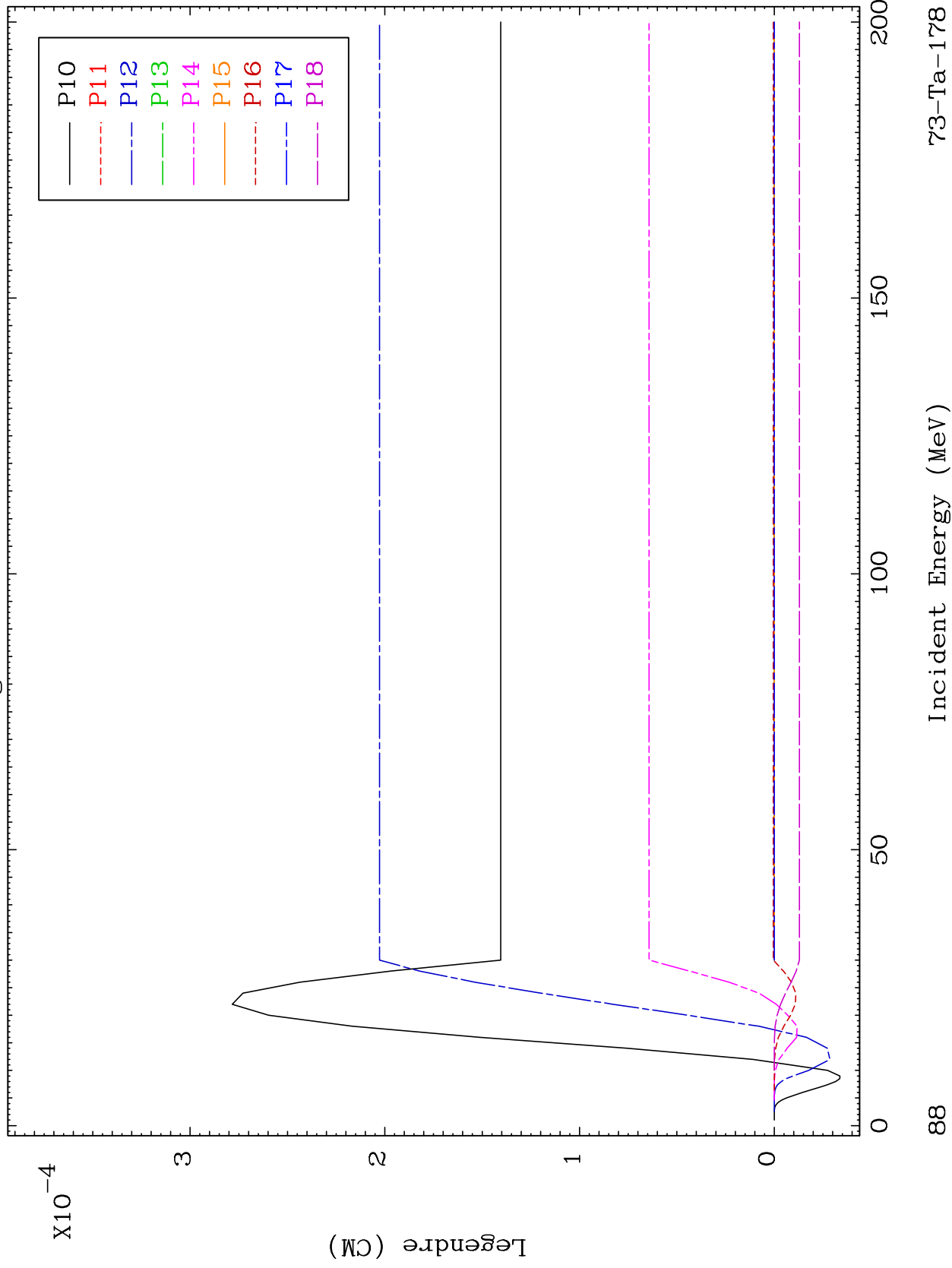
73-Ta-178

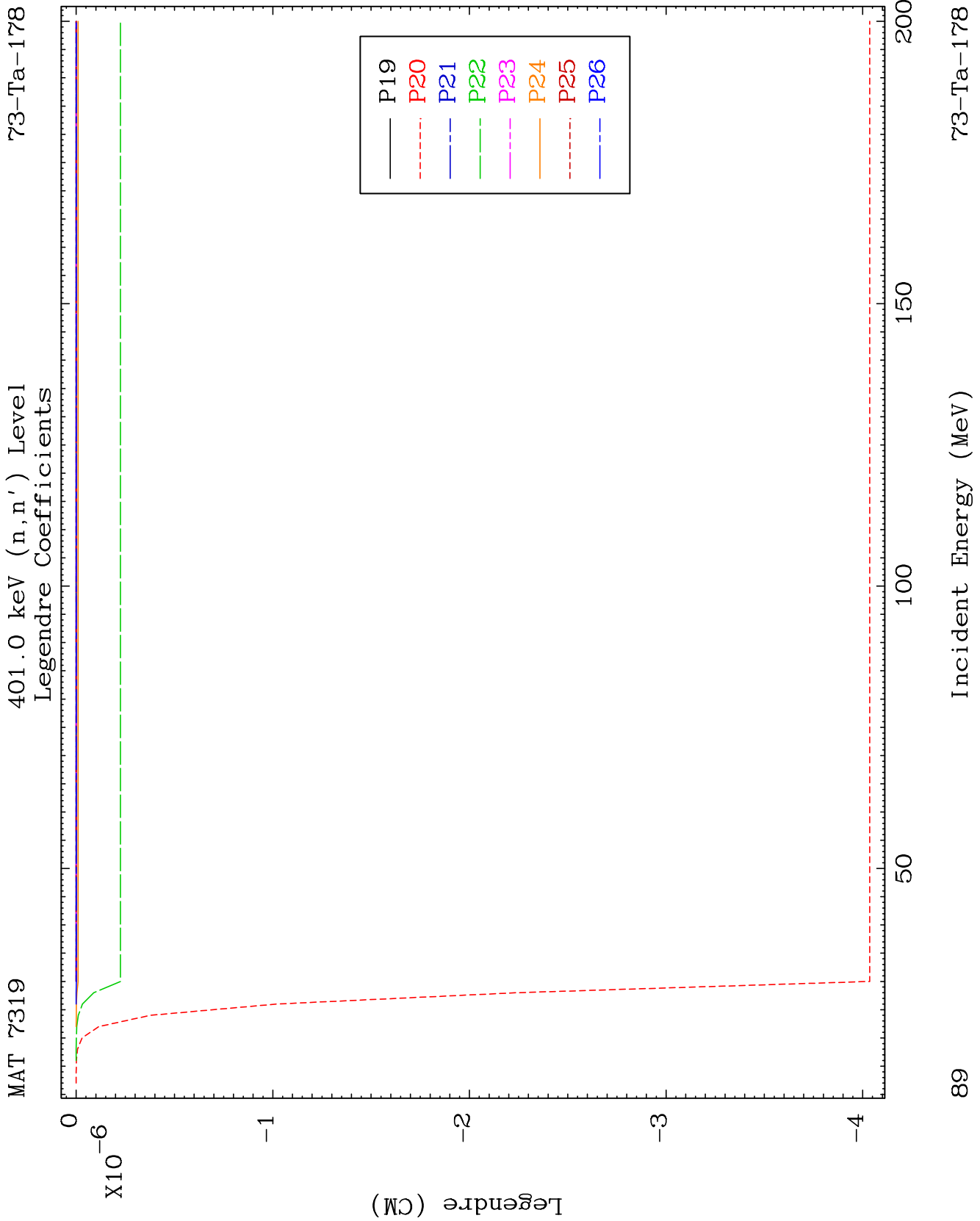


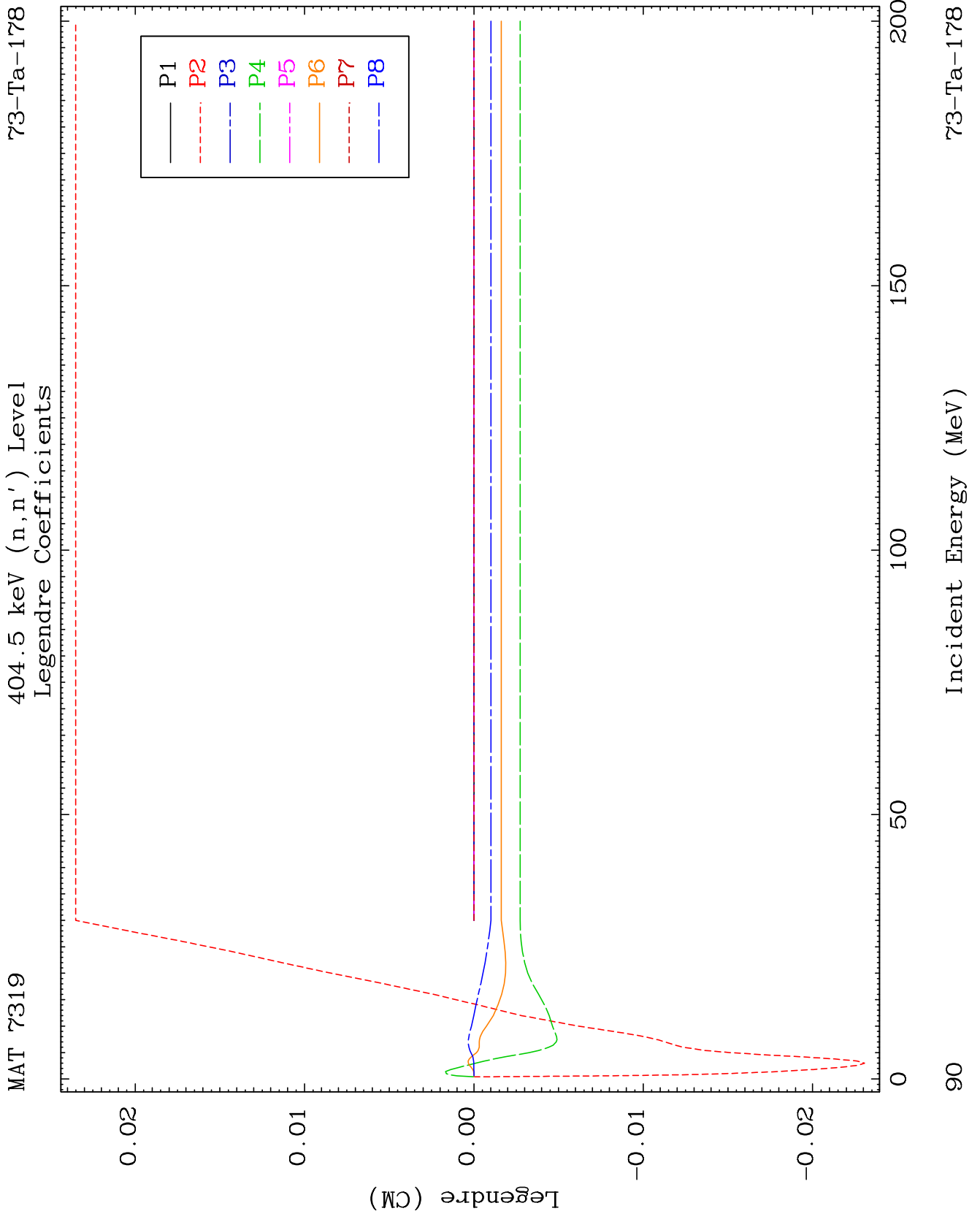
MAT 7319

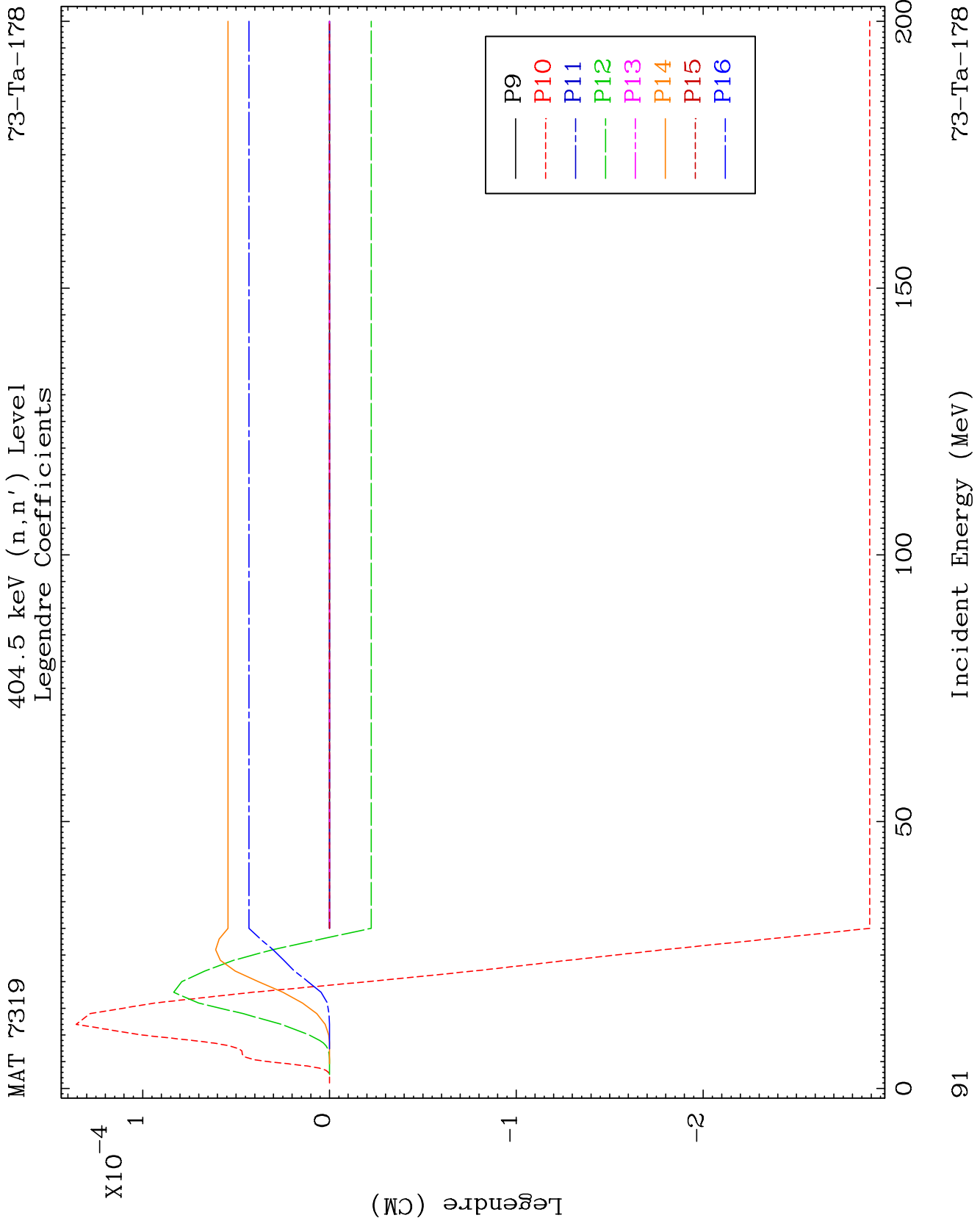
401.0 keV (n,n') Level
Legendre Coefficients

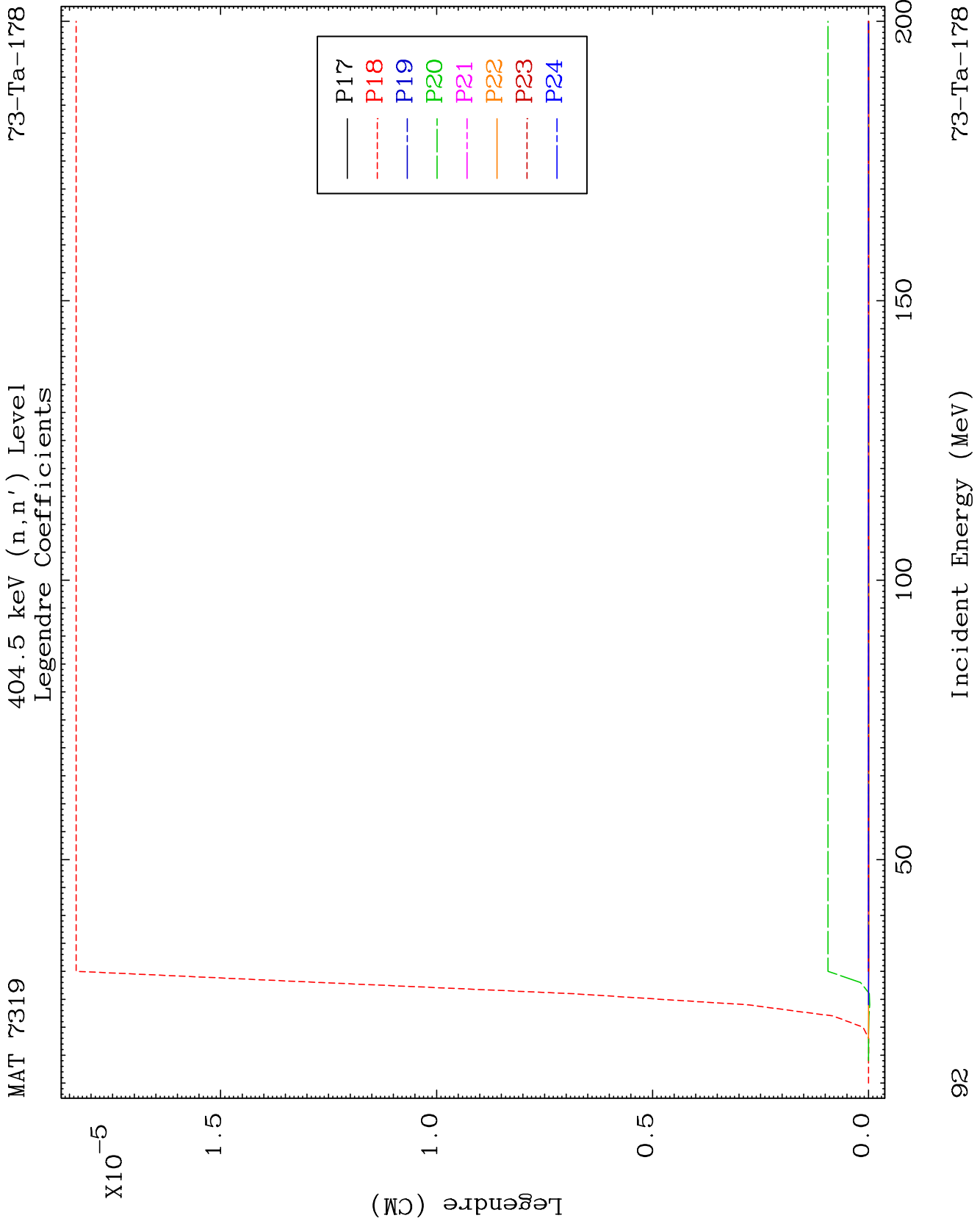
73-Ta-178







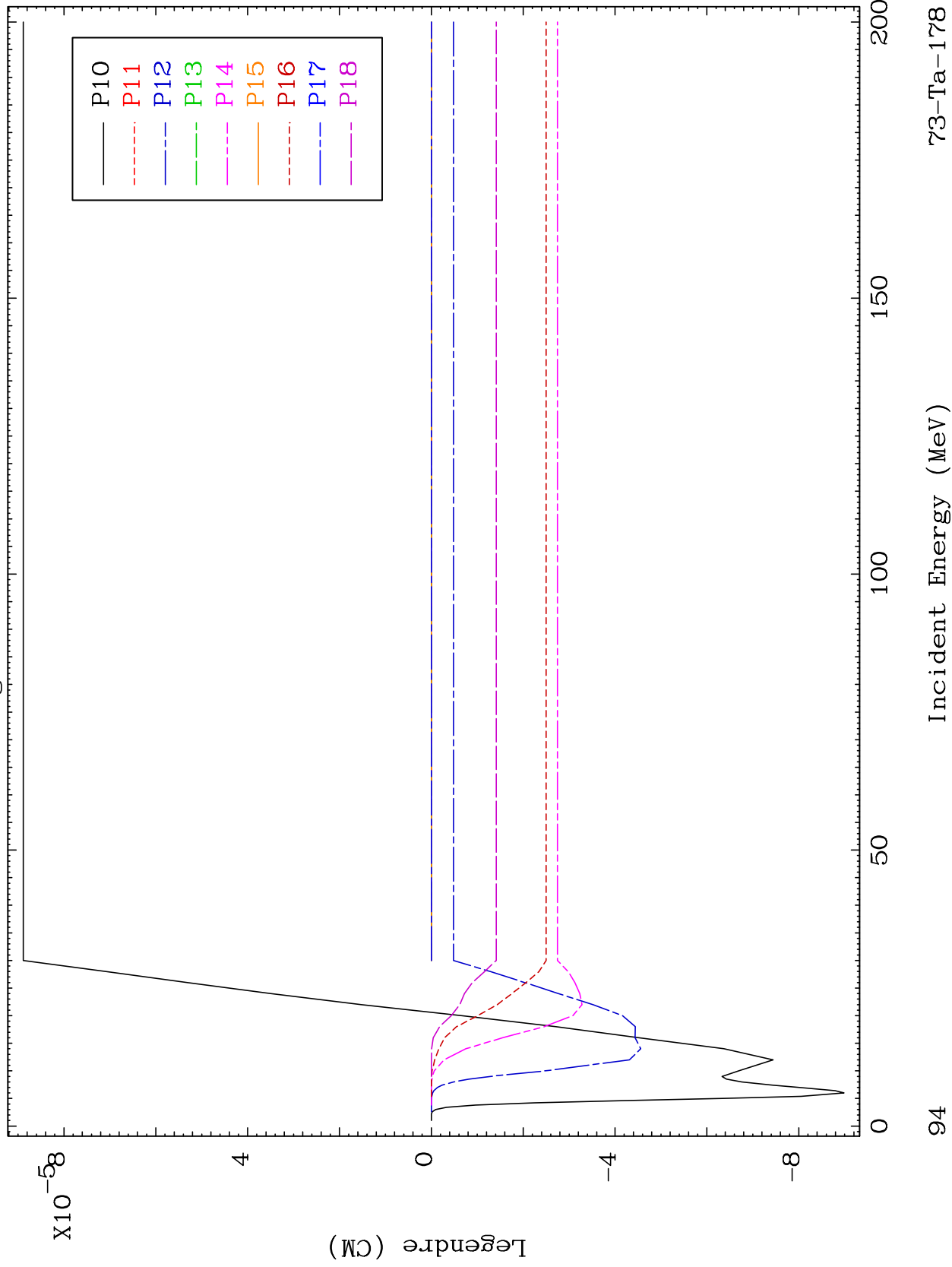




MAT 7319

407.0 keV (n,n') Level
Legendre Coefficients

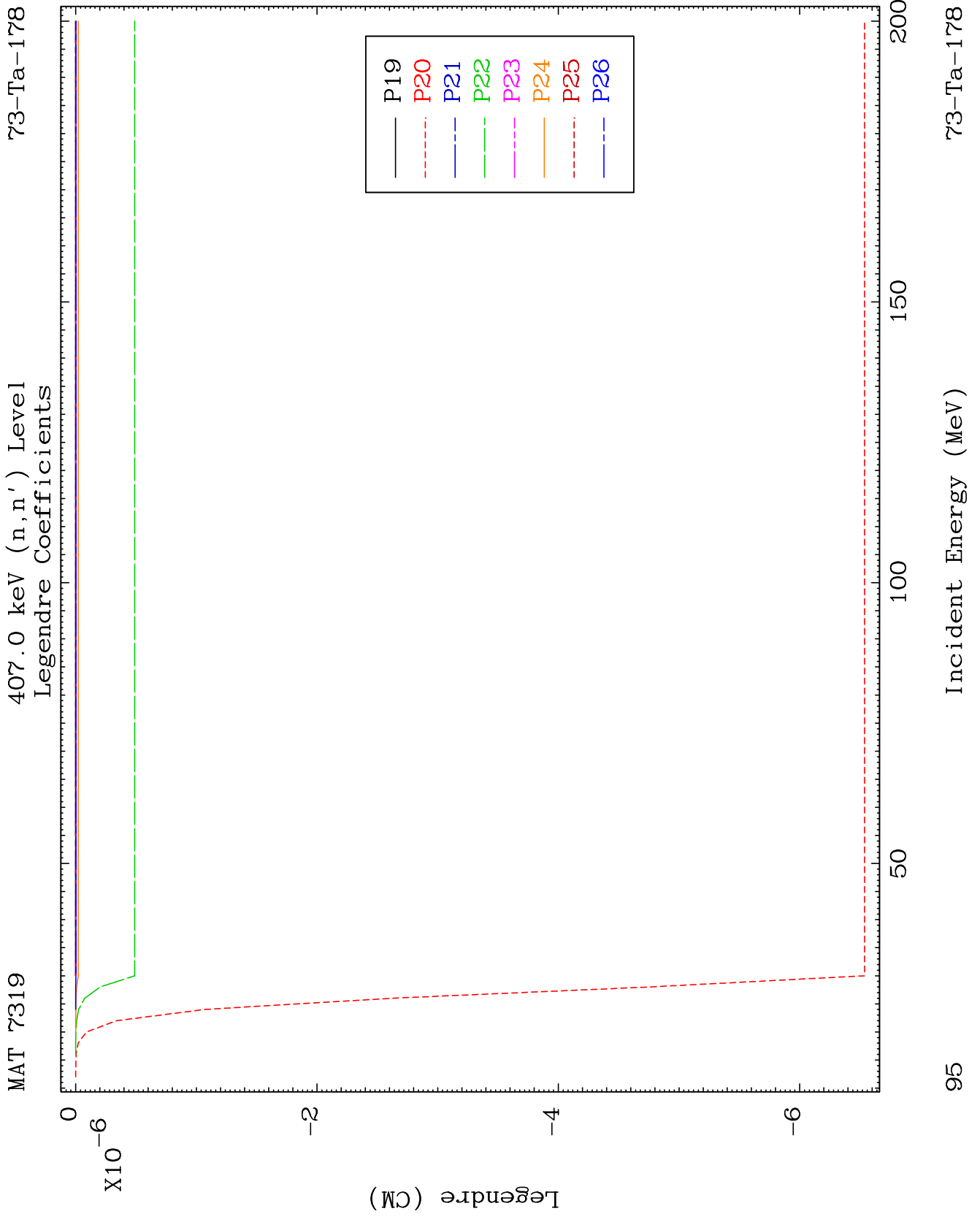
73-Ta-178



73-Ta-178

Incident Energy (MeV)

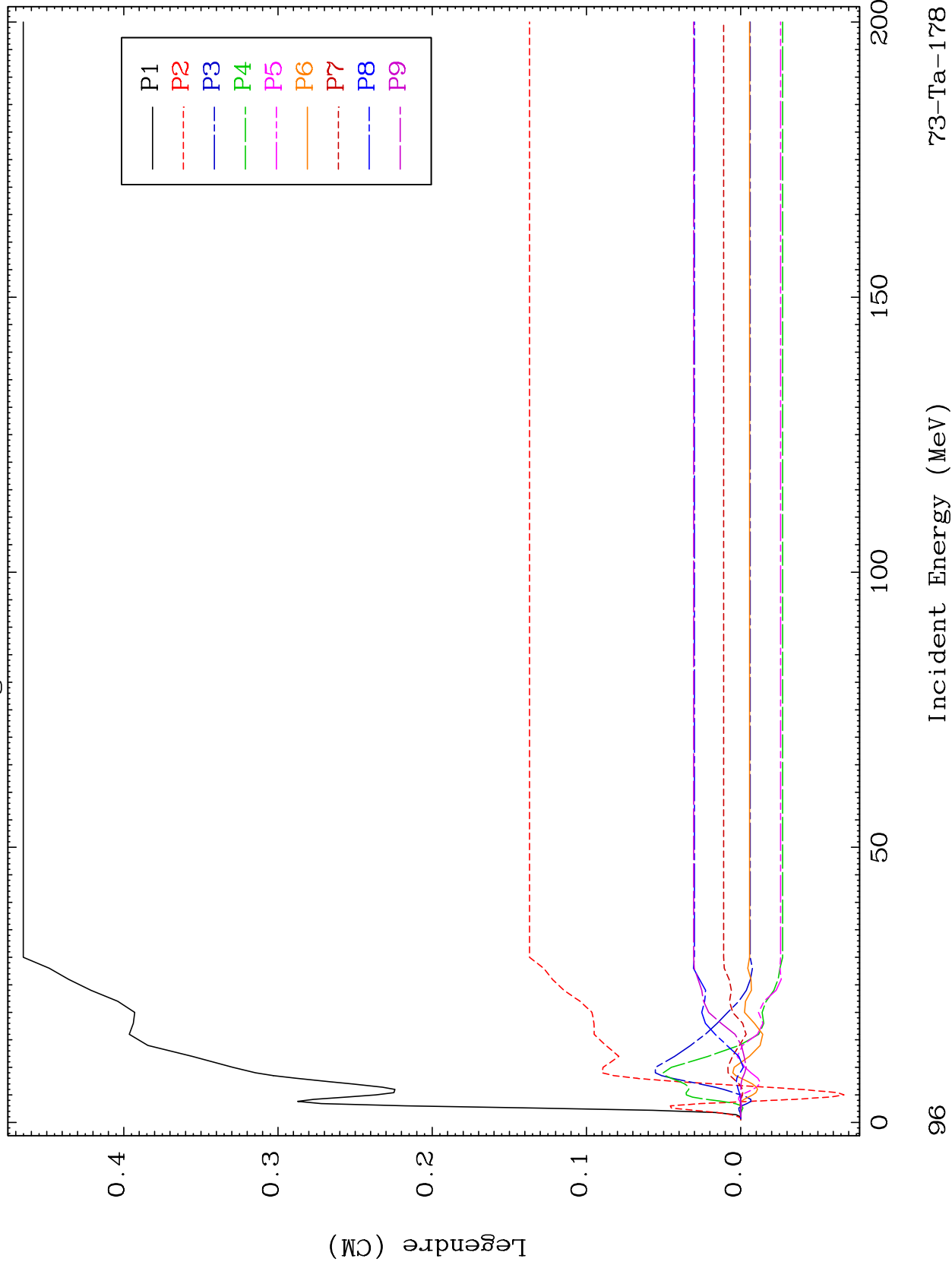
94



MAT 7319

413.2 keV (n,n') Level
Legendre Coefficients

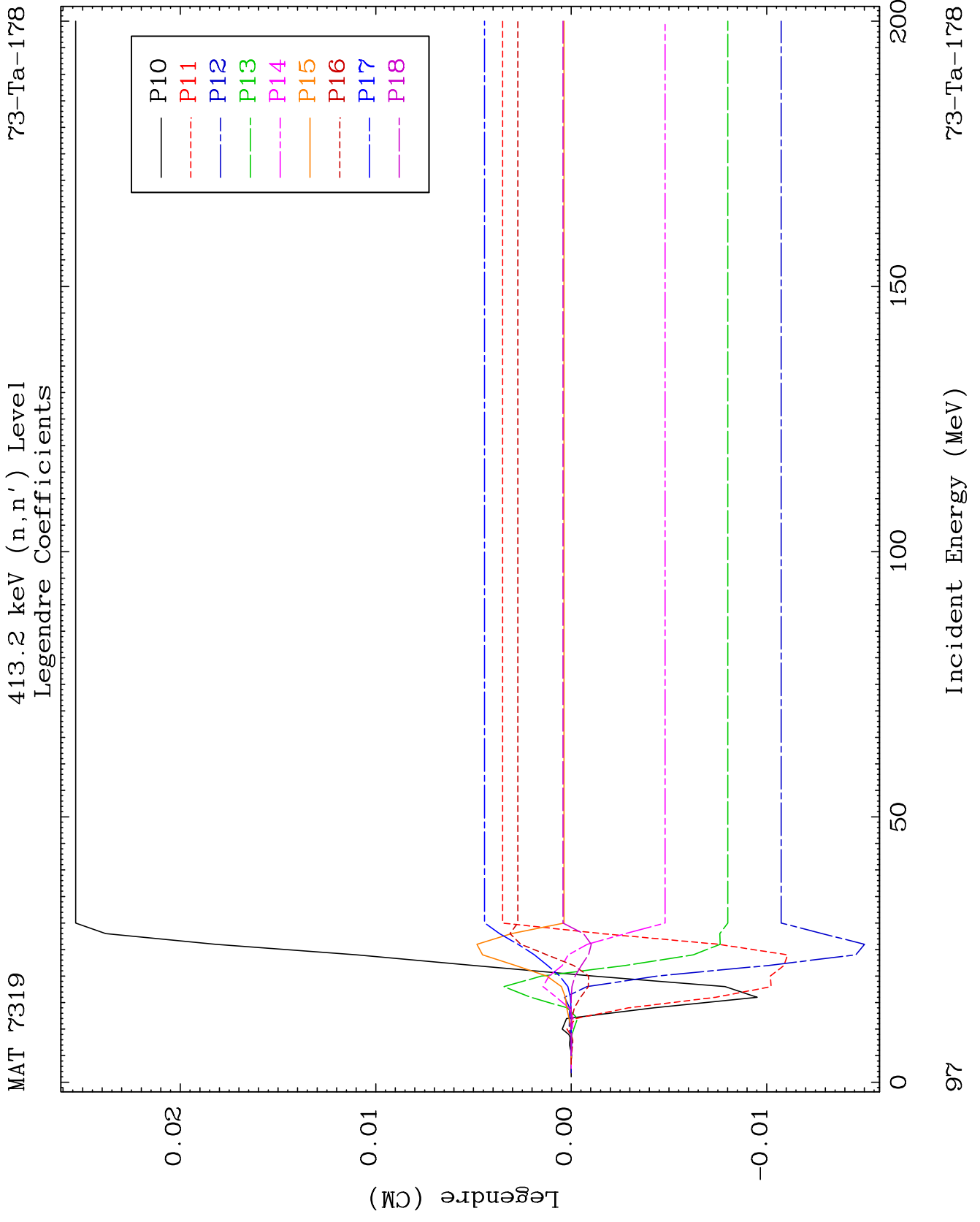
73-Ta-178



73-Ta-178

Incident Energy (MeV)

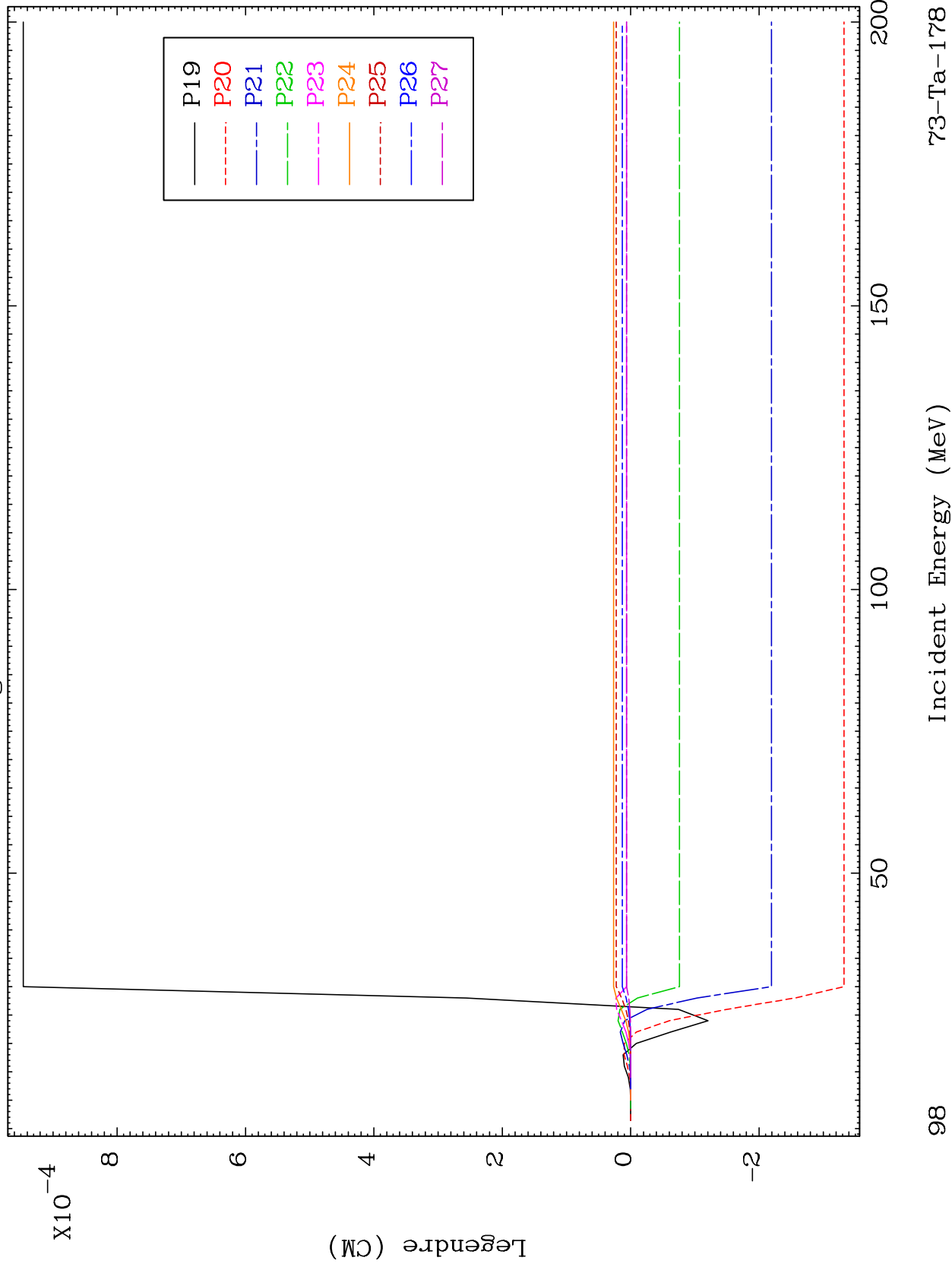
96



MAT 7319

413.2 keV (n,n') Level
Legendre Coefficients

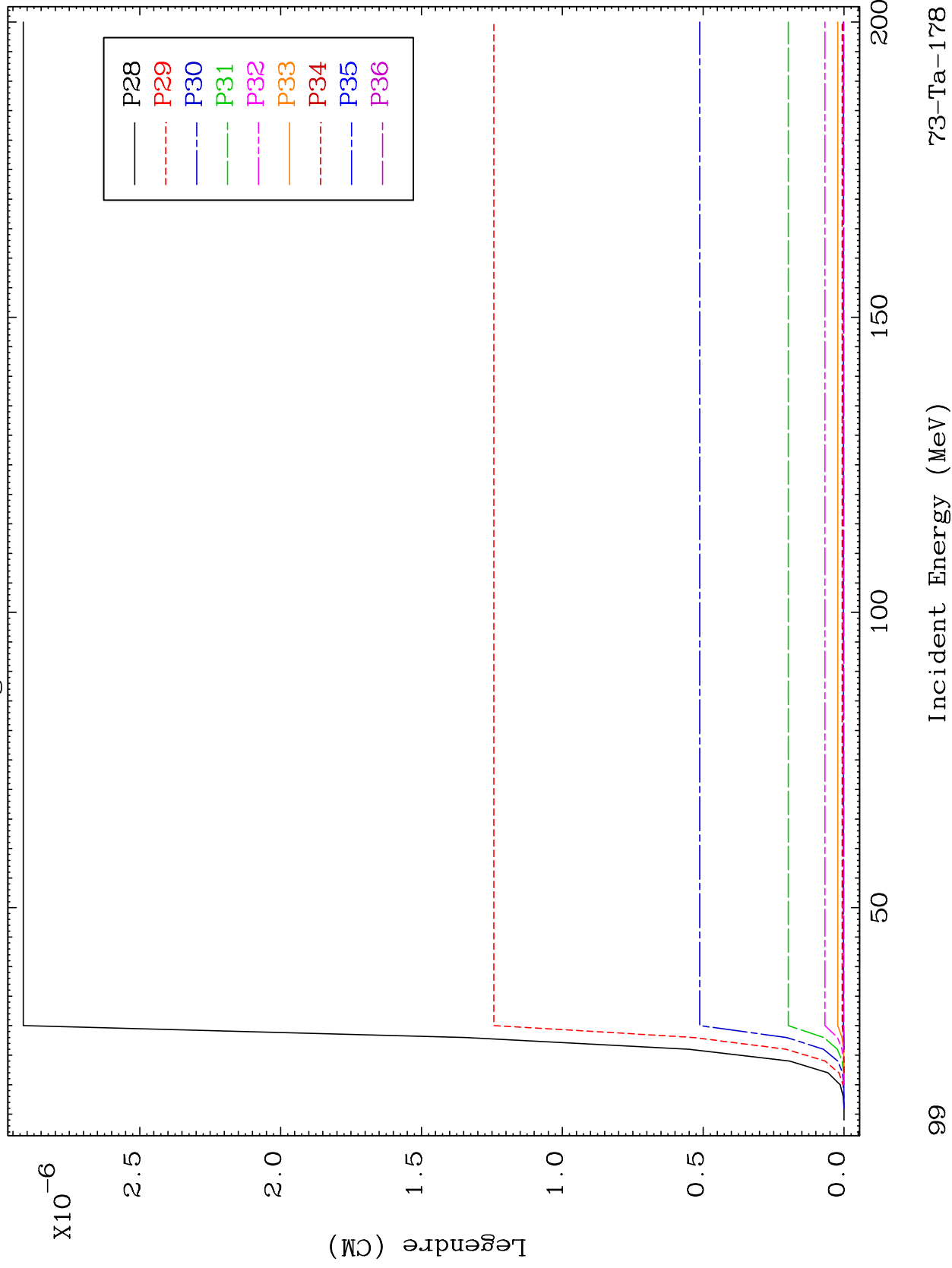
73-Ta-178

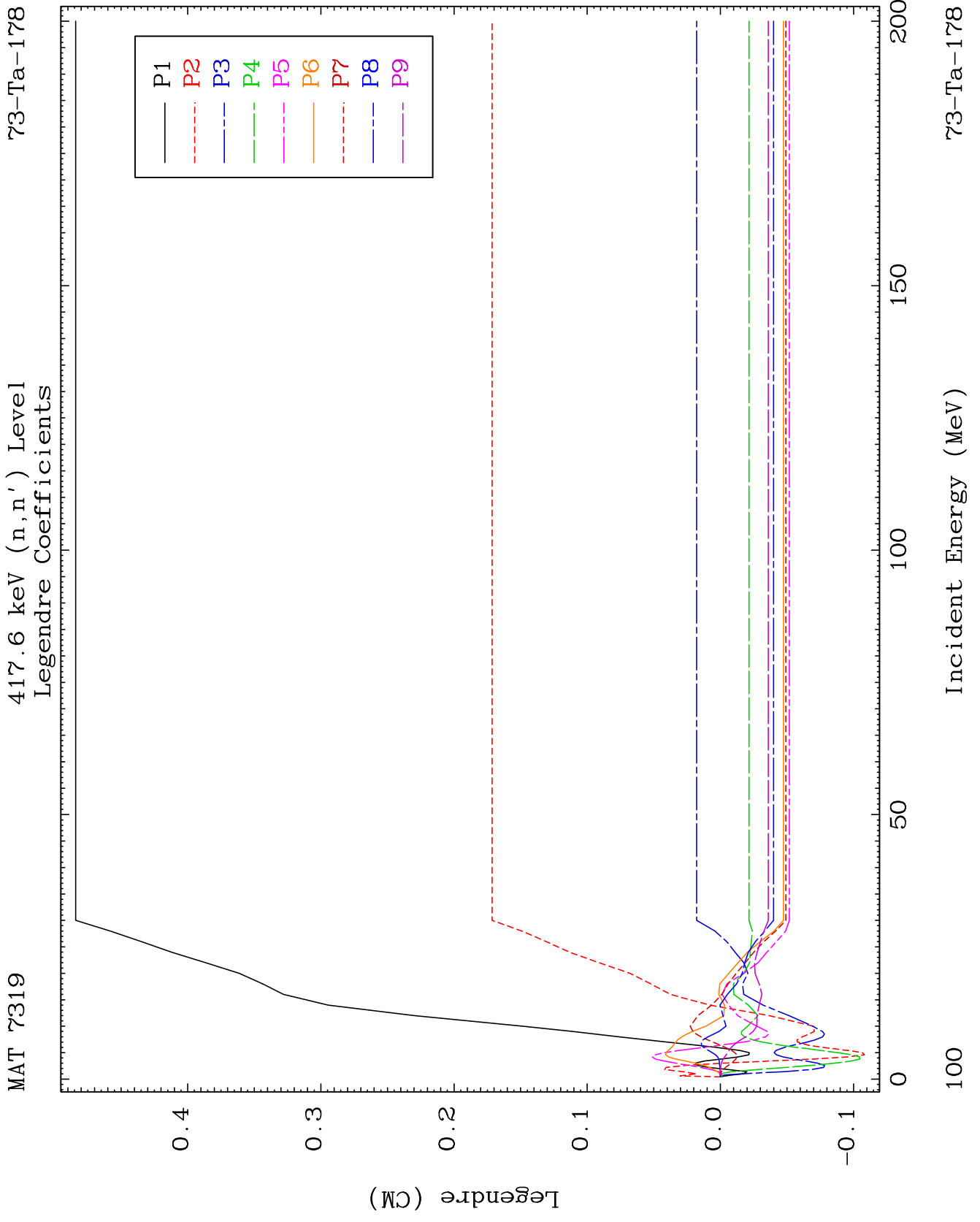


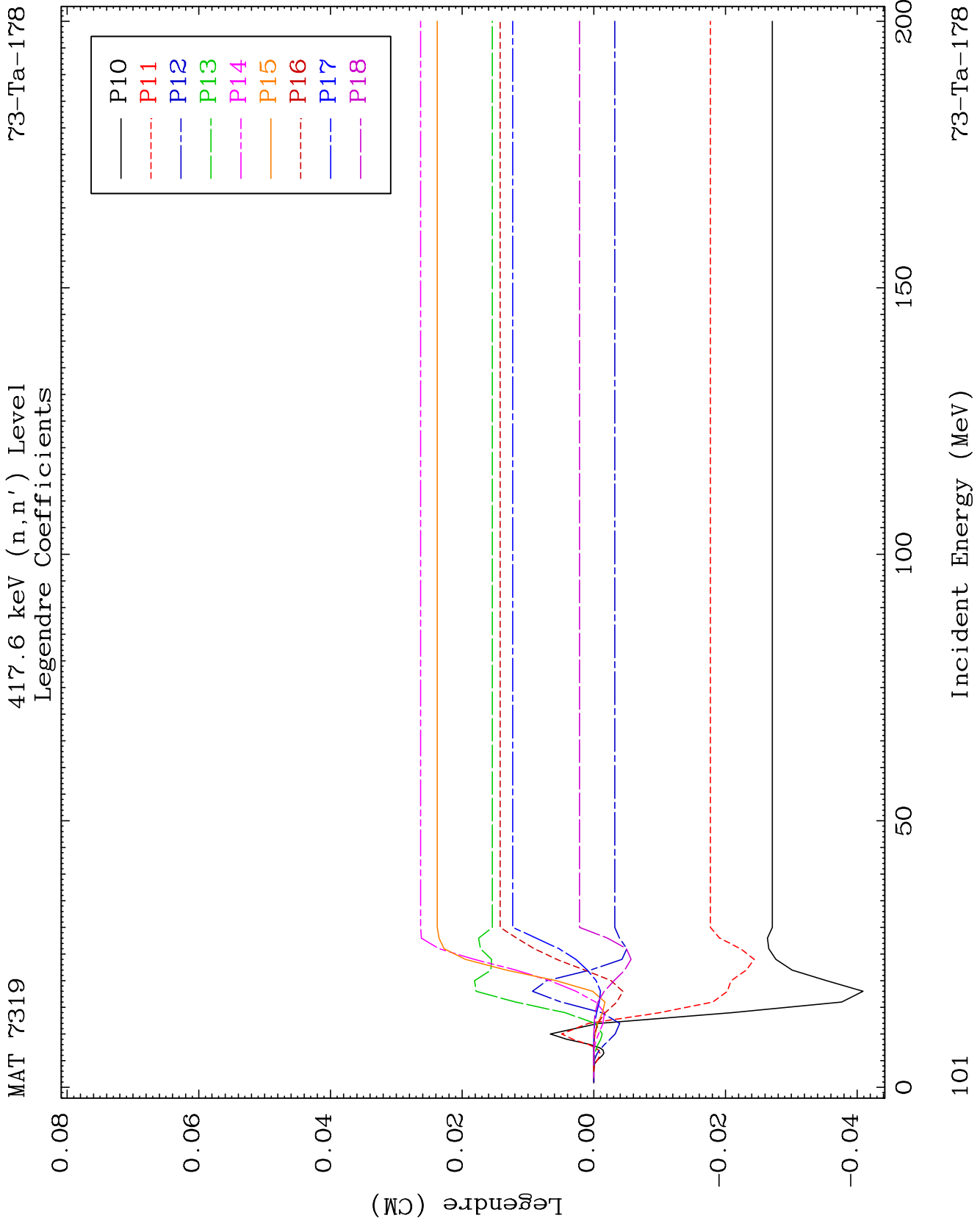
MAT 7319

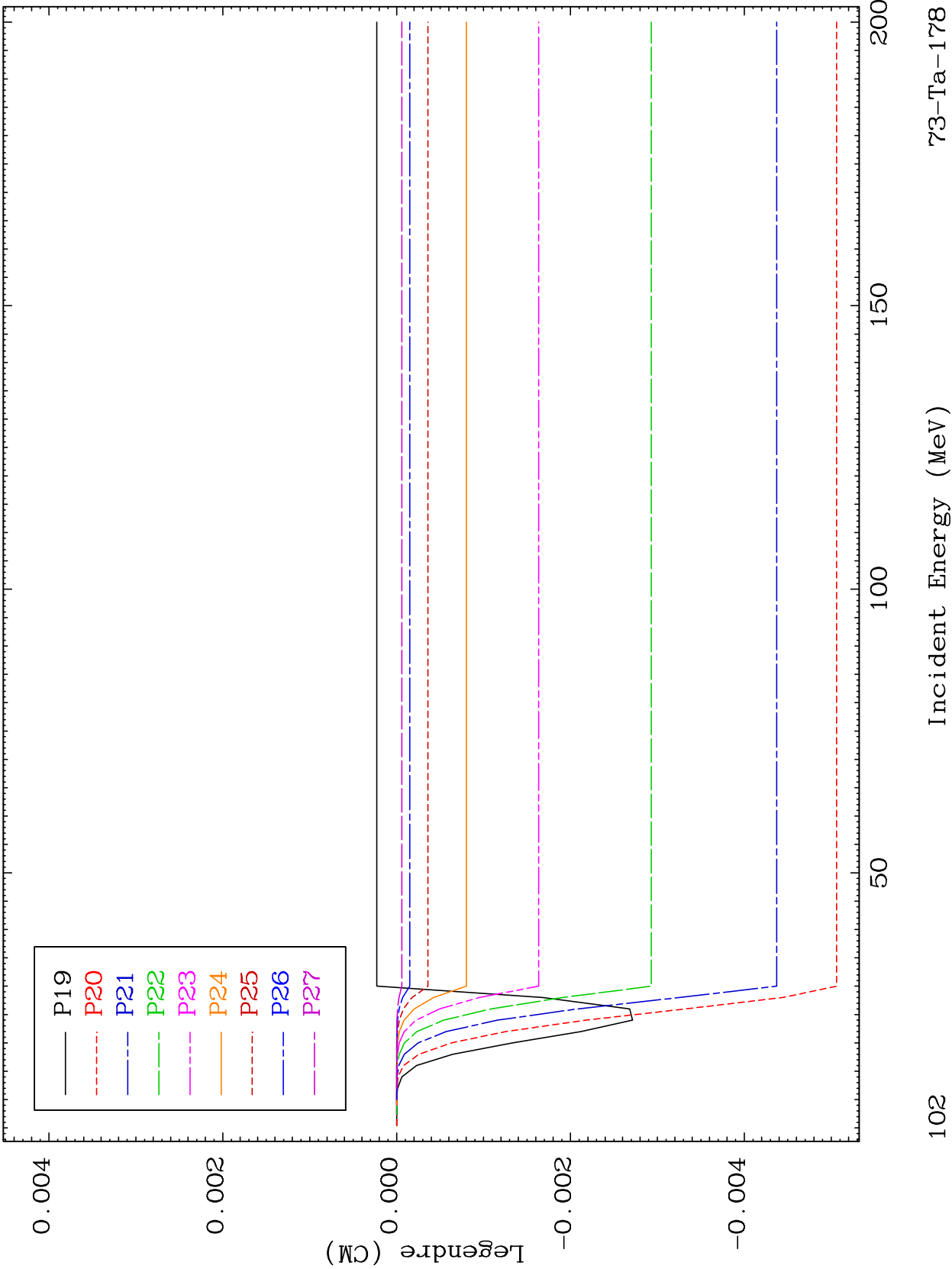
413.2 keV (n,n') Level
Legendre Coefficients

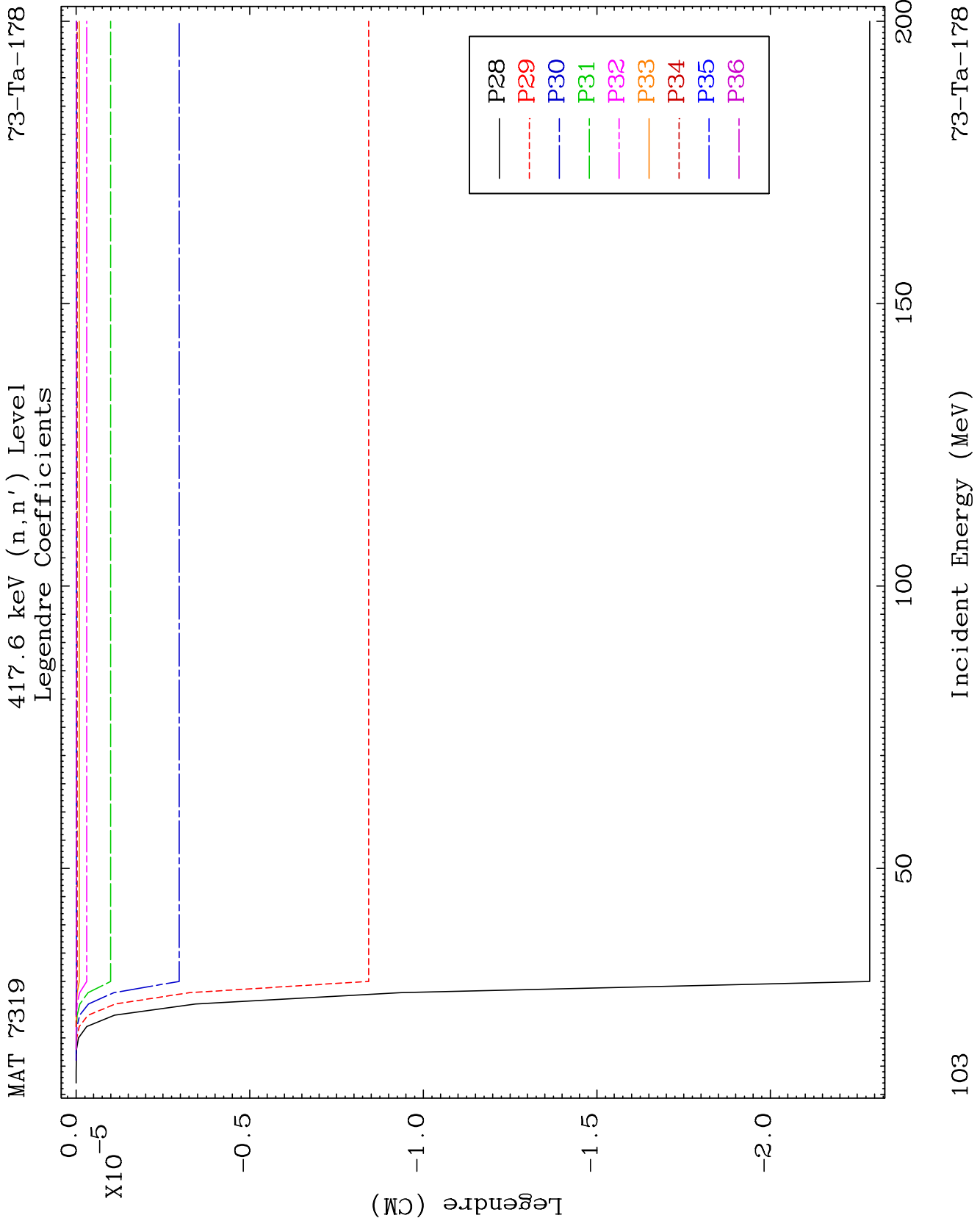
73-Ta-178

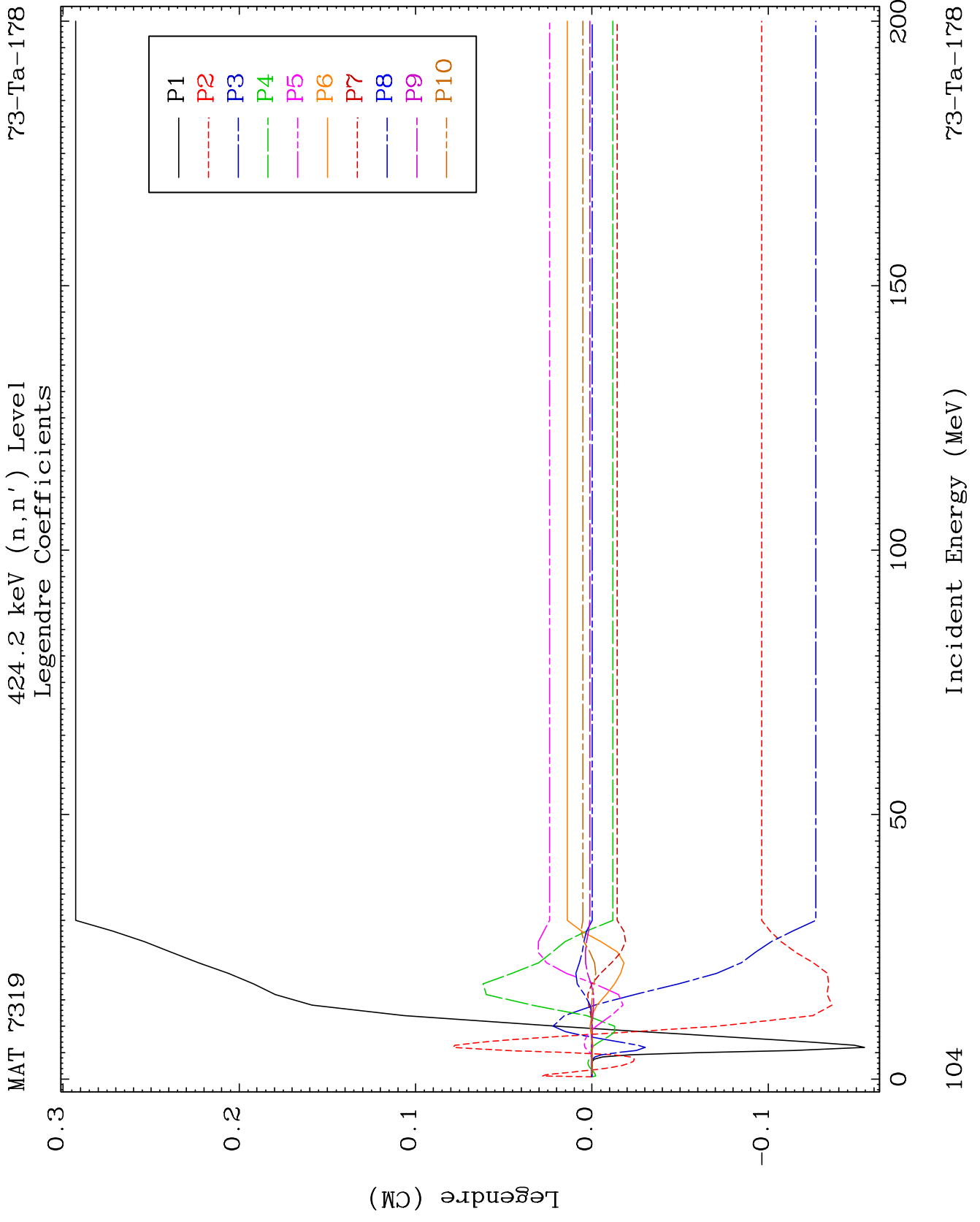








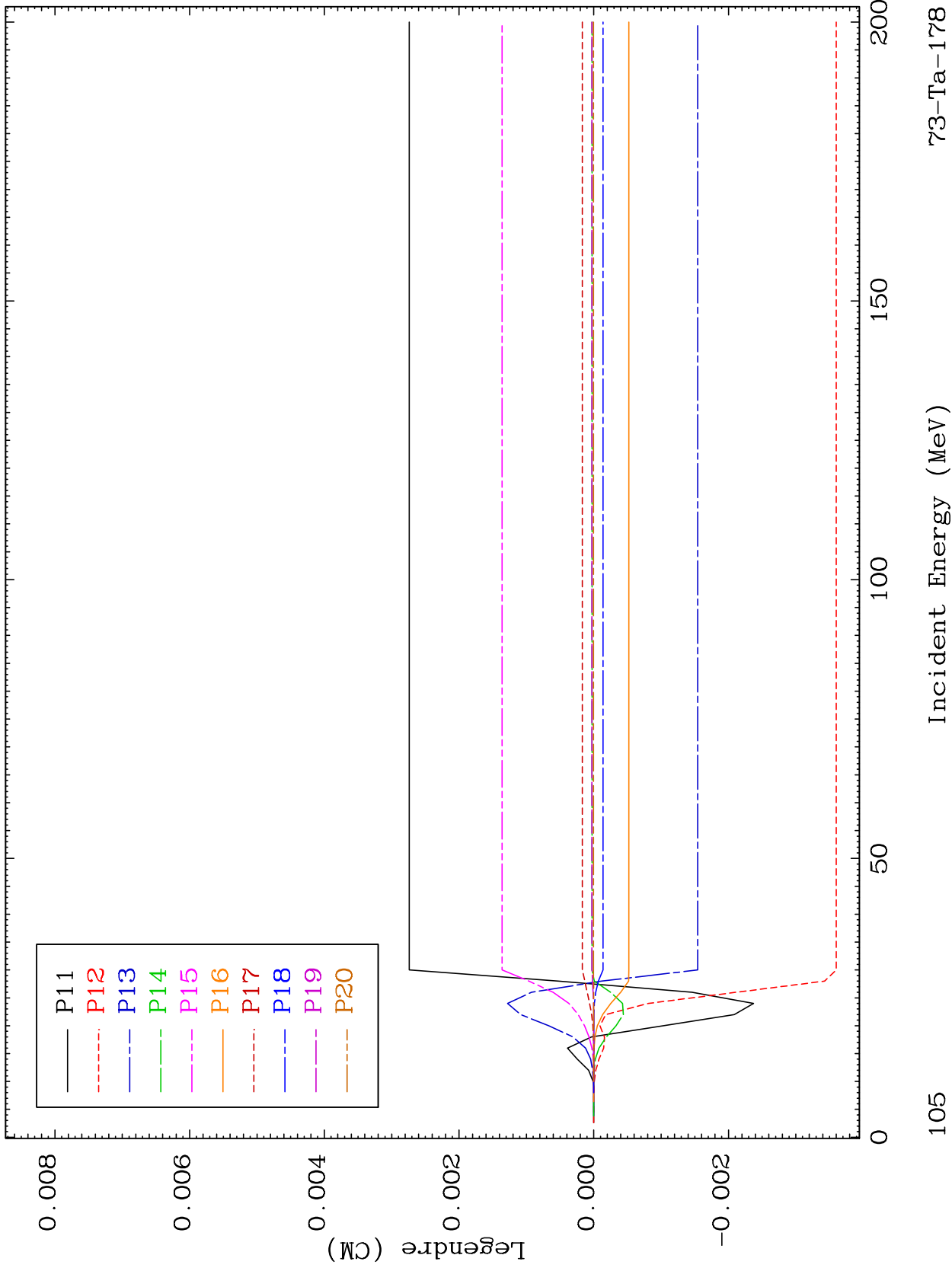


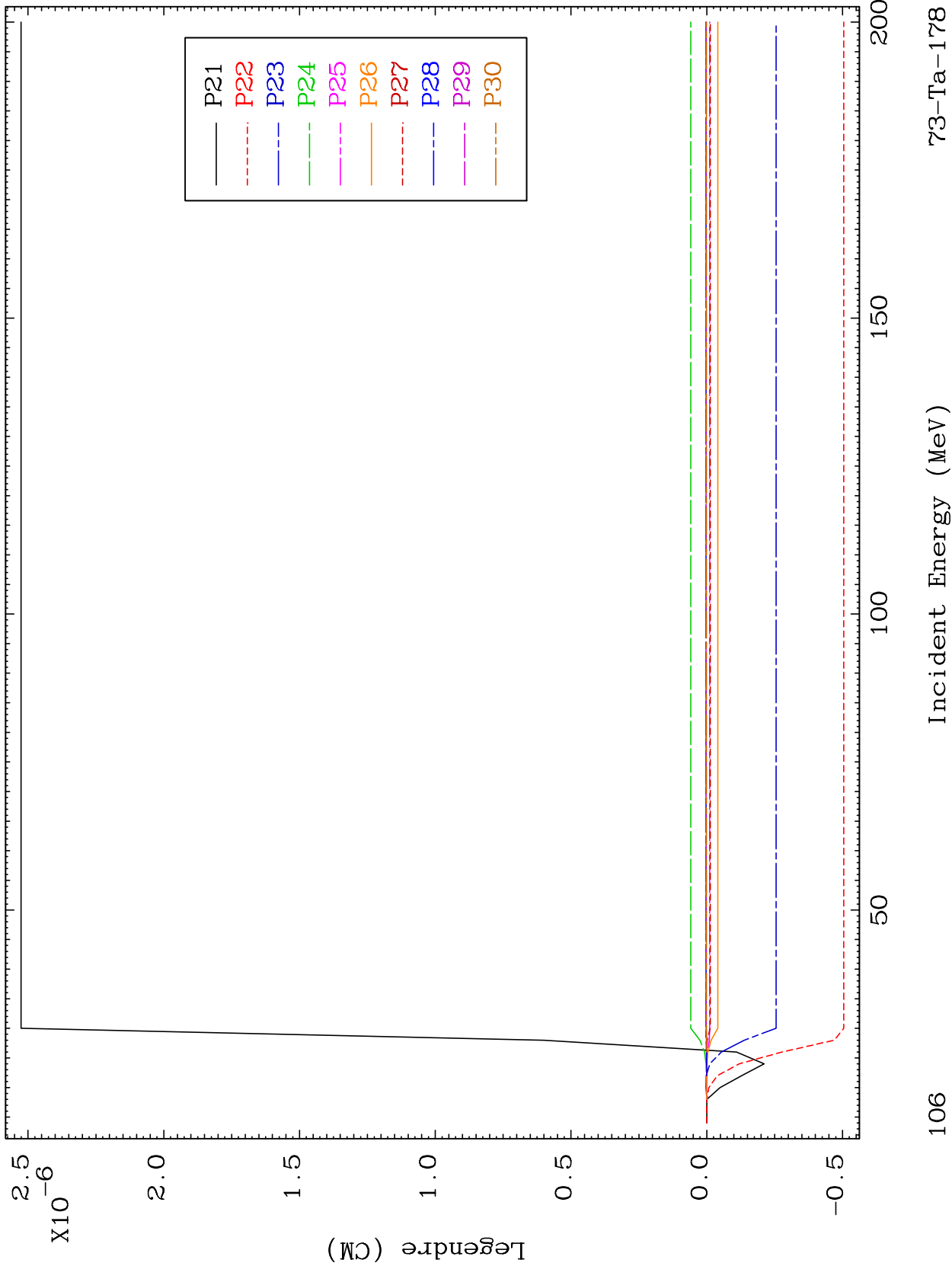


MAT 7319

424.2 keV (n, n') Level
Legendre Coefficients

73-Ta-178

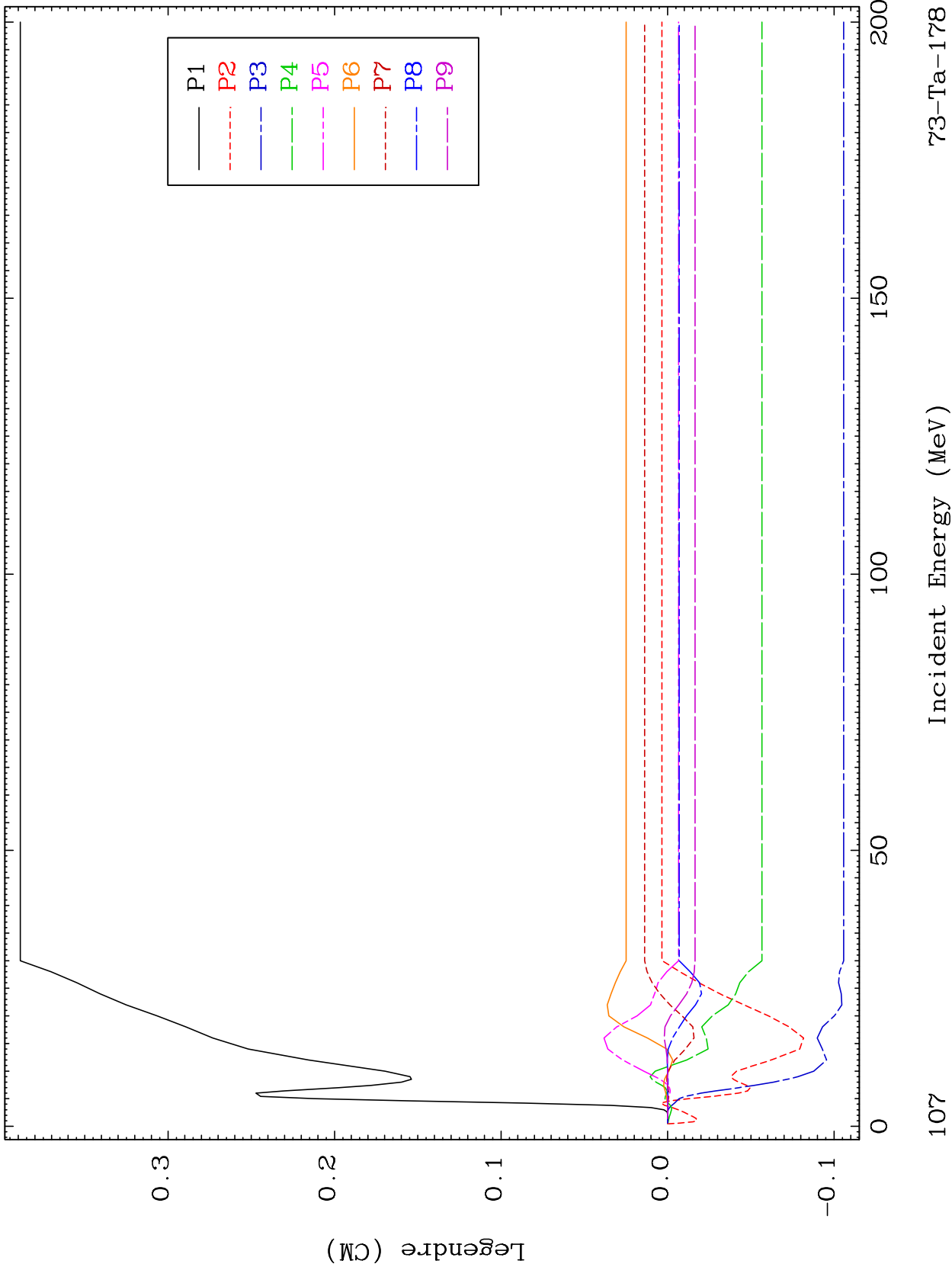


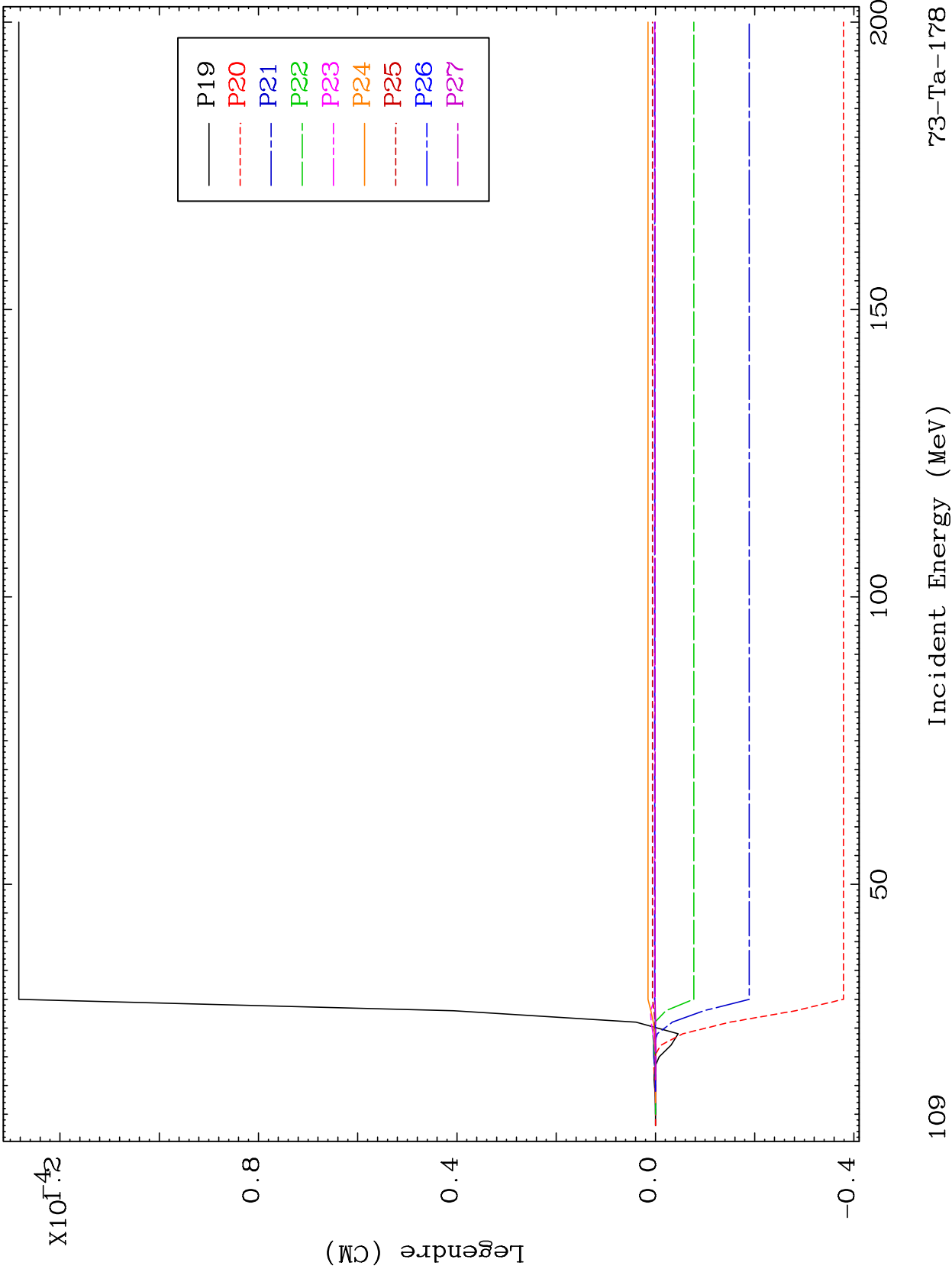


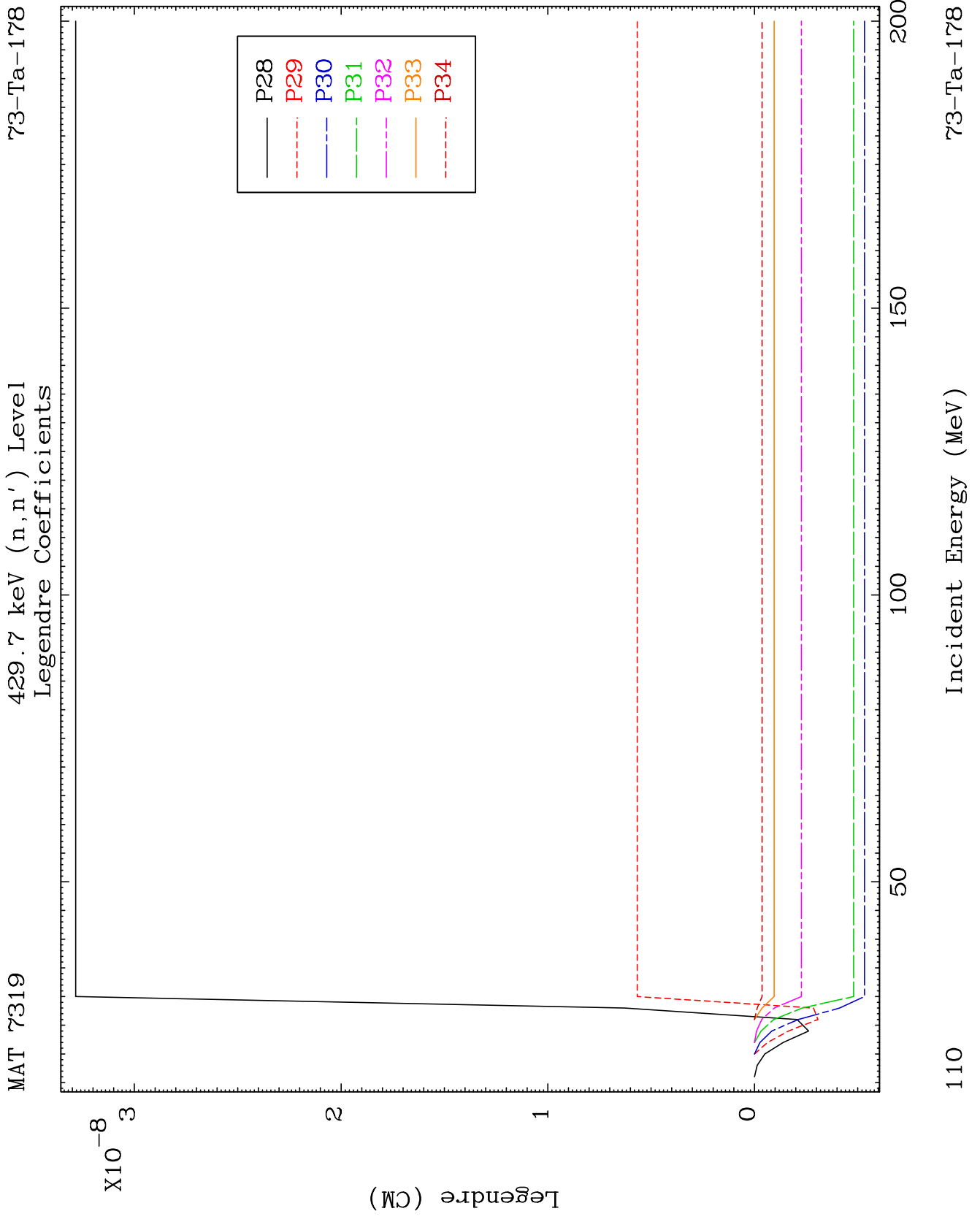
MAT 7319

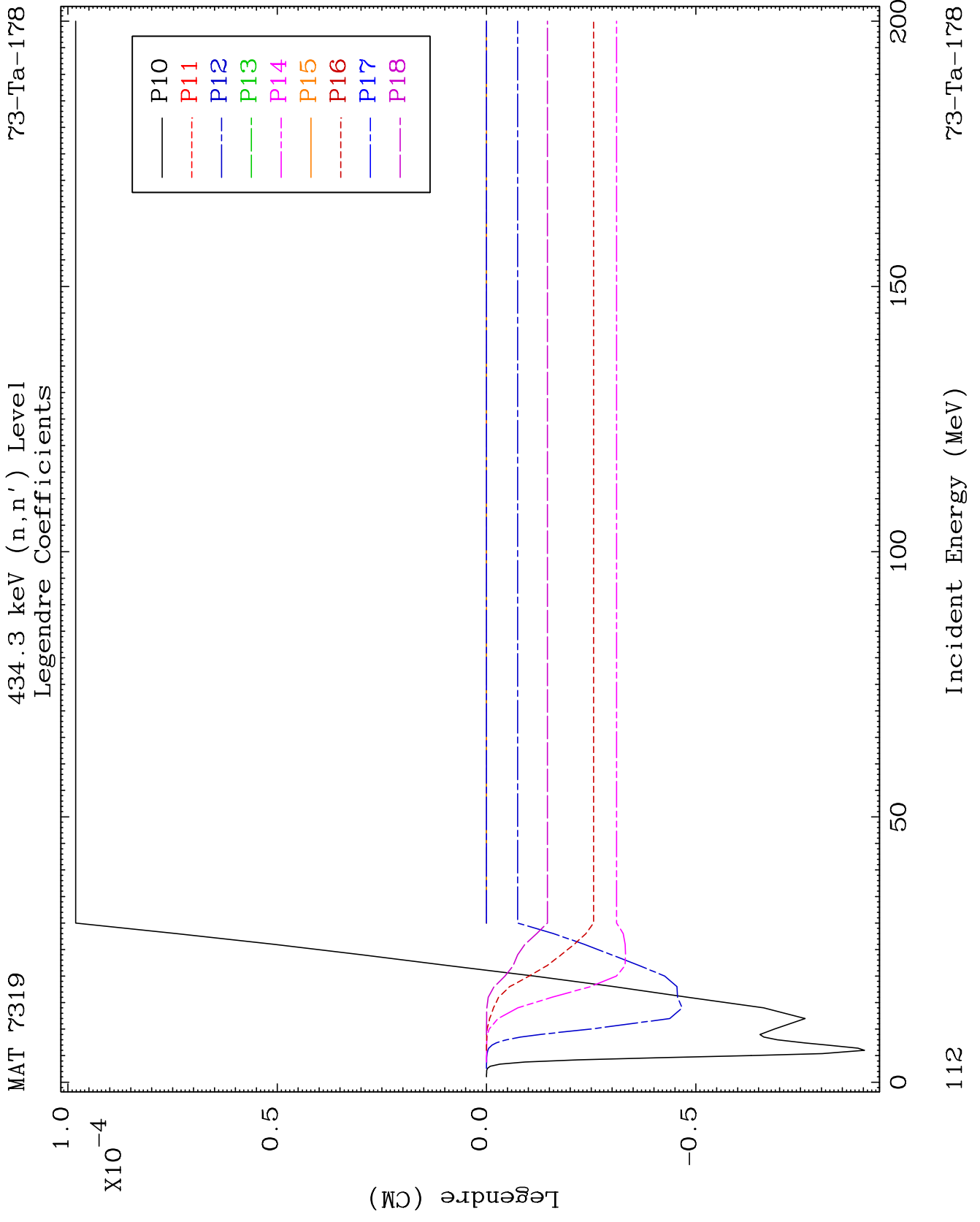
429.7 keV (n,n') Level
Legendre Coefficients

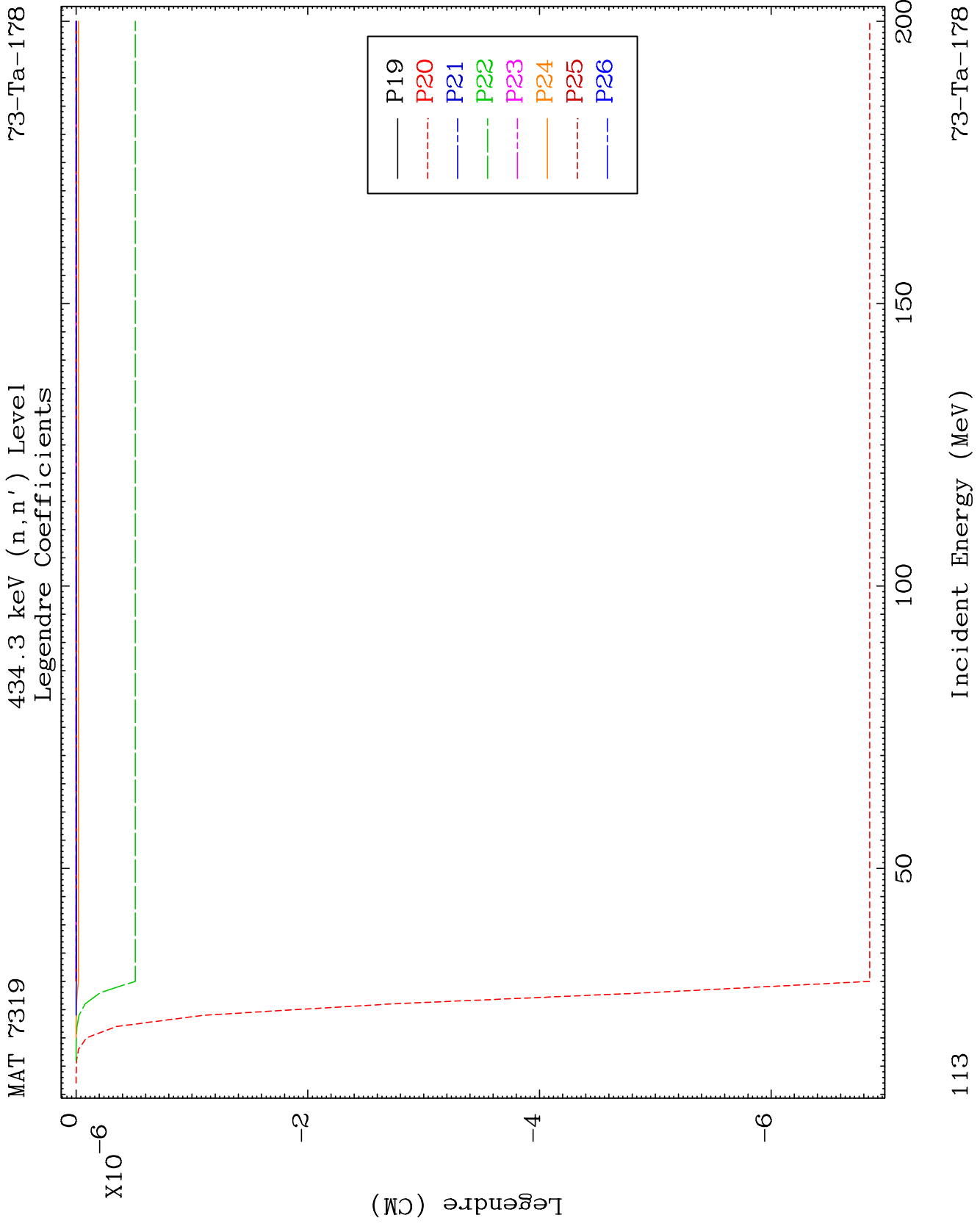
73-Ta-178







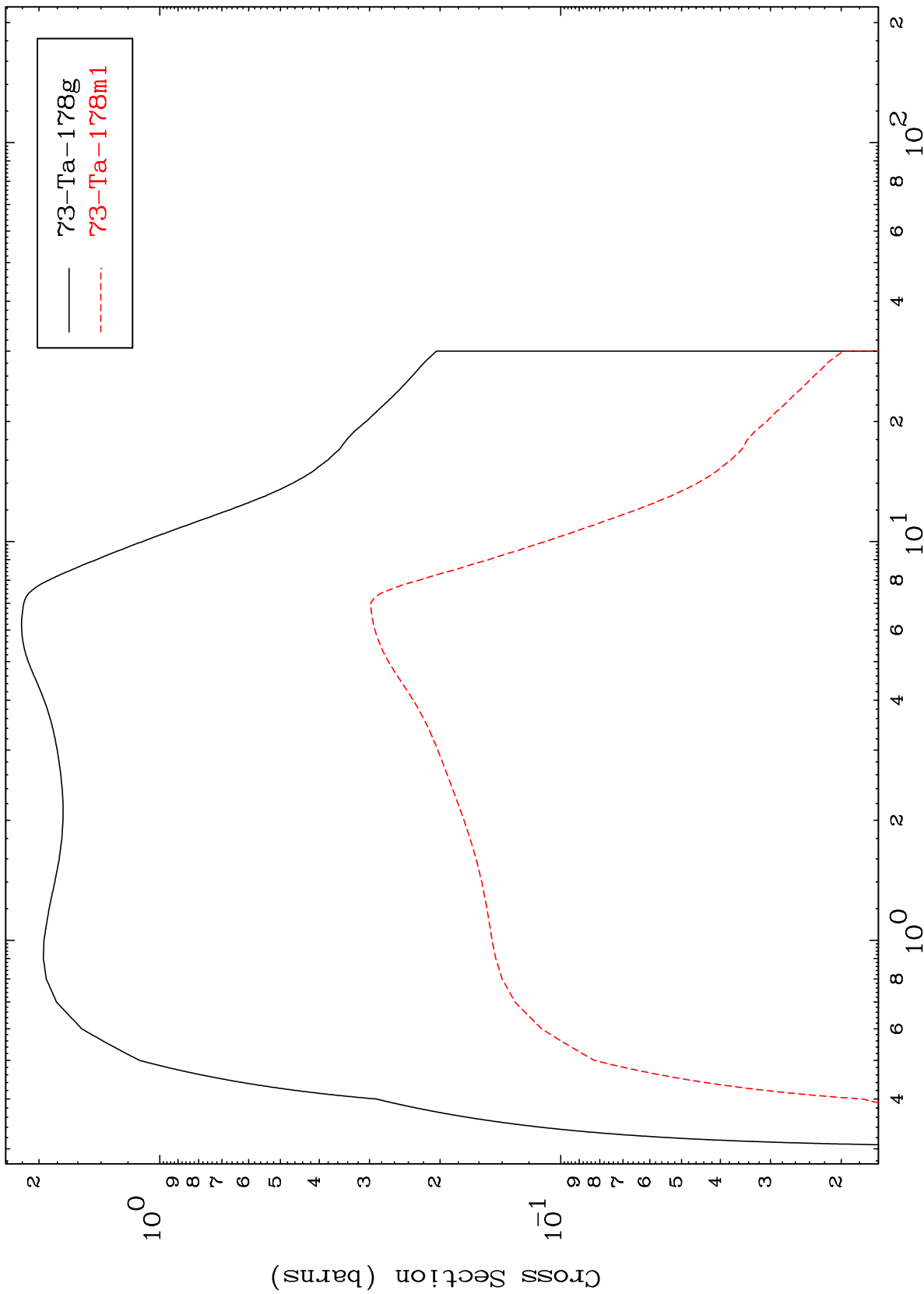




MAT 7319

73-Ta-178

Inelastic
Radionuclide Production Cross Section



73-Ta-178g
73-Ta-178m1

114

73-Ta-178

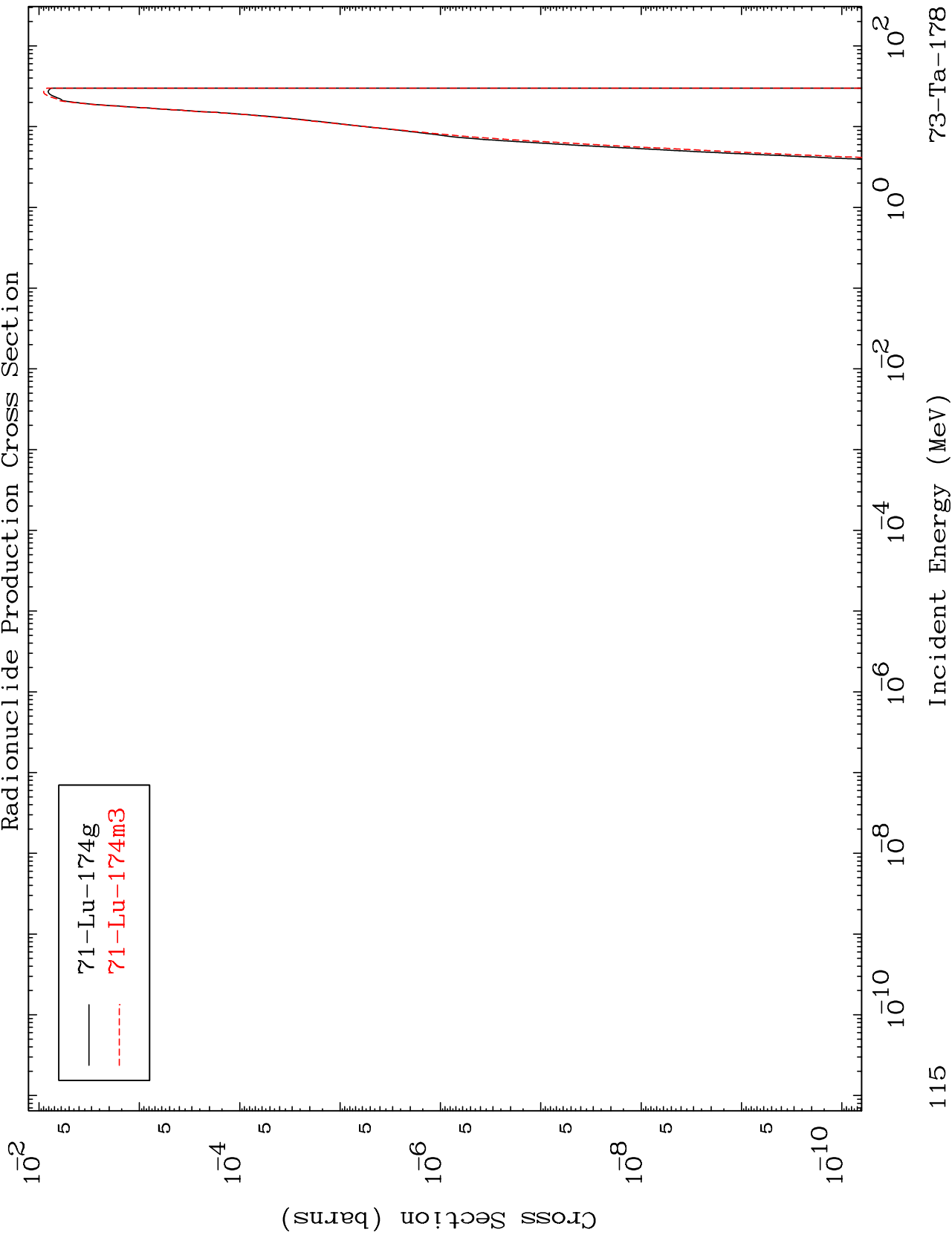
Incident Energy (MeV)

MAT 7319

$(n, n') \alpha$

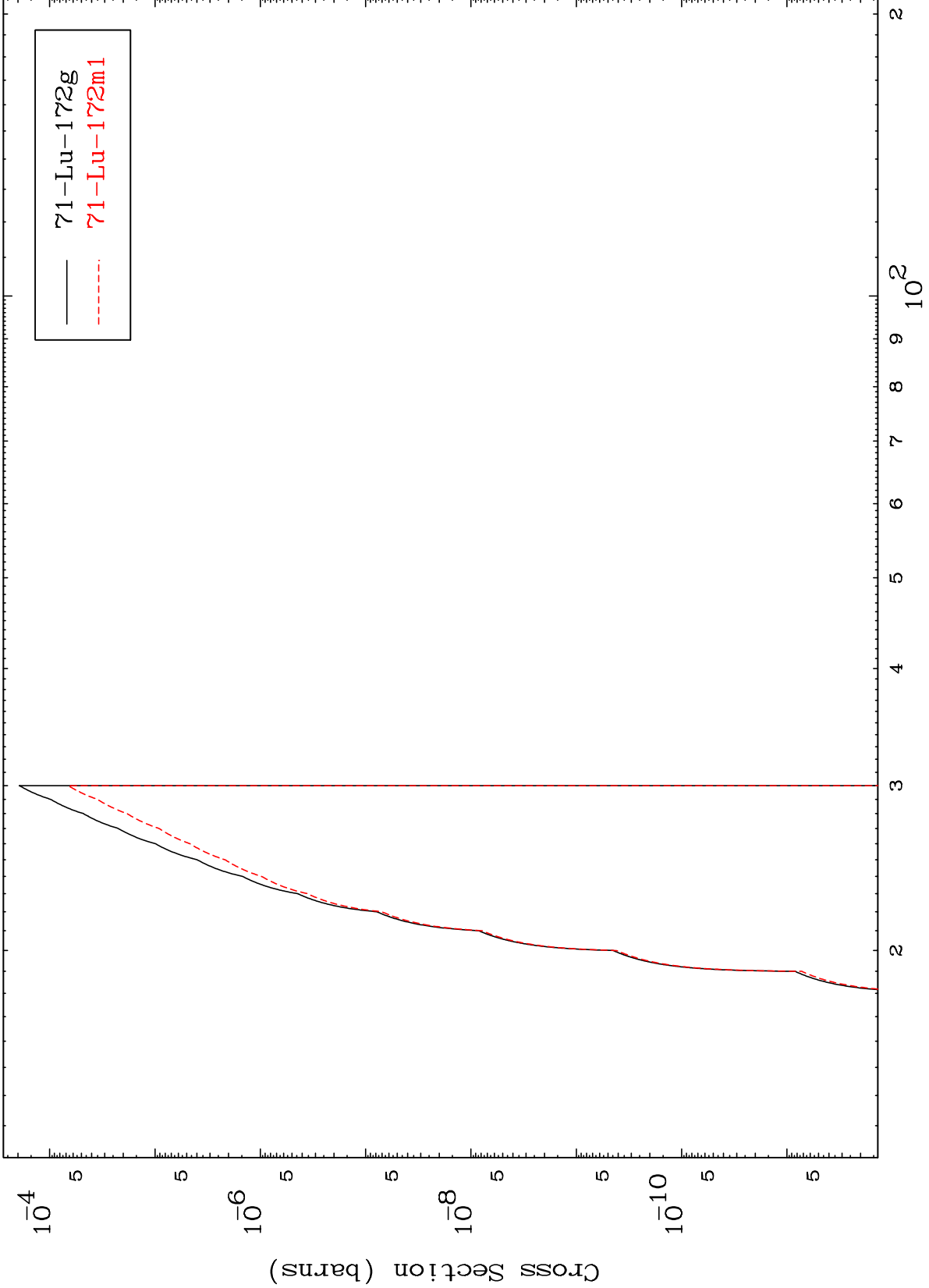
$^{73}\text{Ta-178}$

Radionuclide Production Cross Section



— $^{71}\text{Lu-174g}$
- - - $^{71}\text{Lu-174m3}$

Radionuclide Production Cross Section



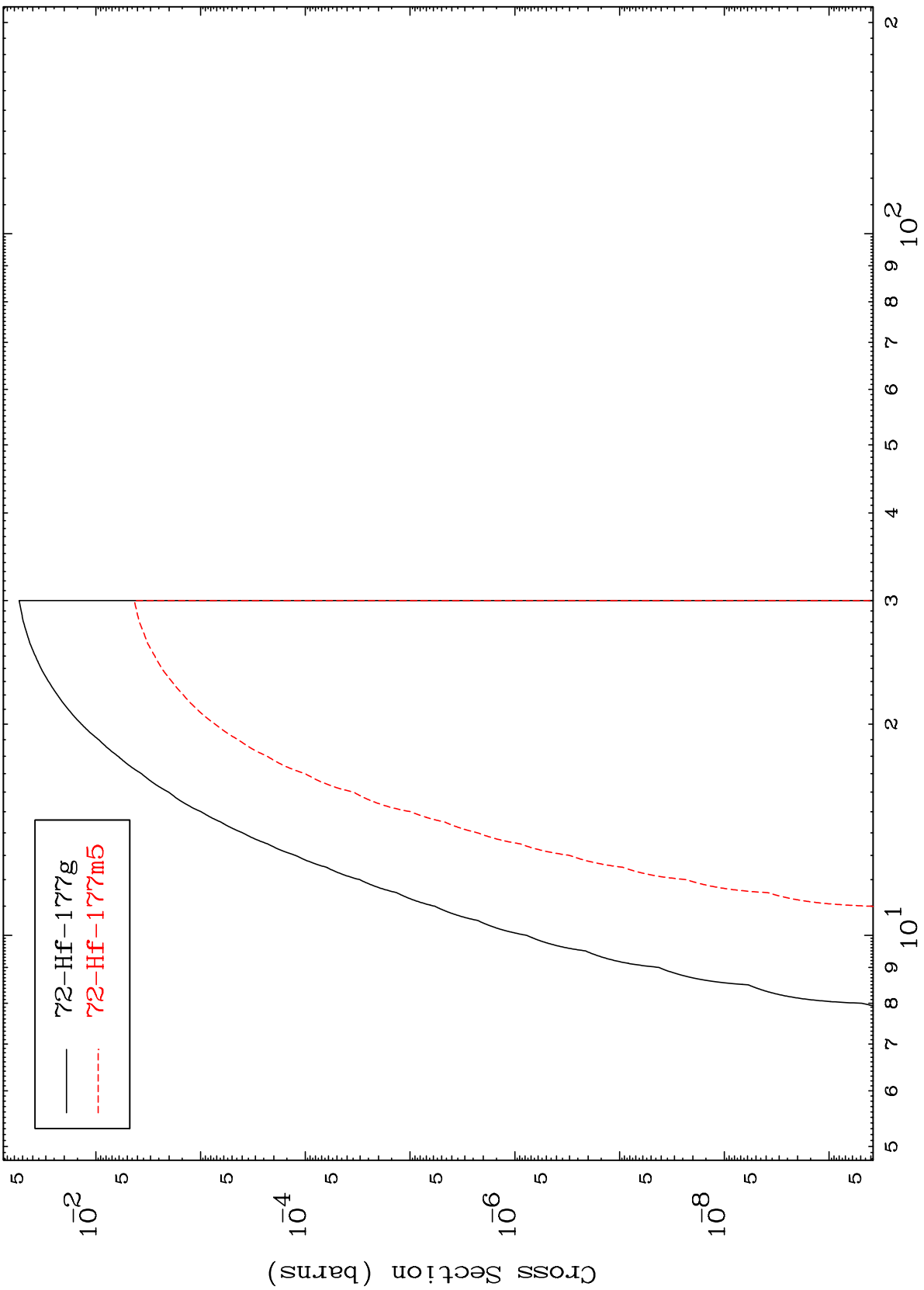
71-Lu-172g
71-Lu-172m1

MAT 7319

(n,n') p

73-Ta-178

Radionuclide Production Cross Section



72-Hf-177g
72-Hf-177m5

117

Incident Energy (MeV)

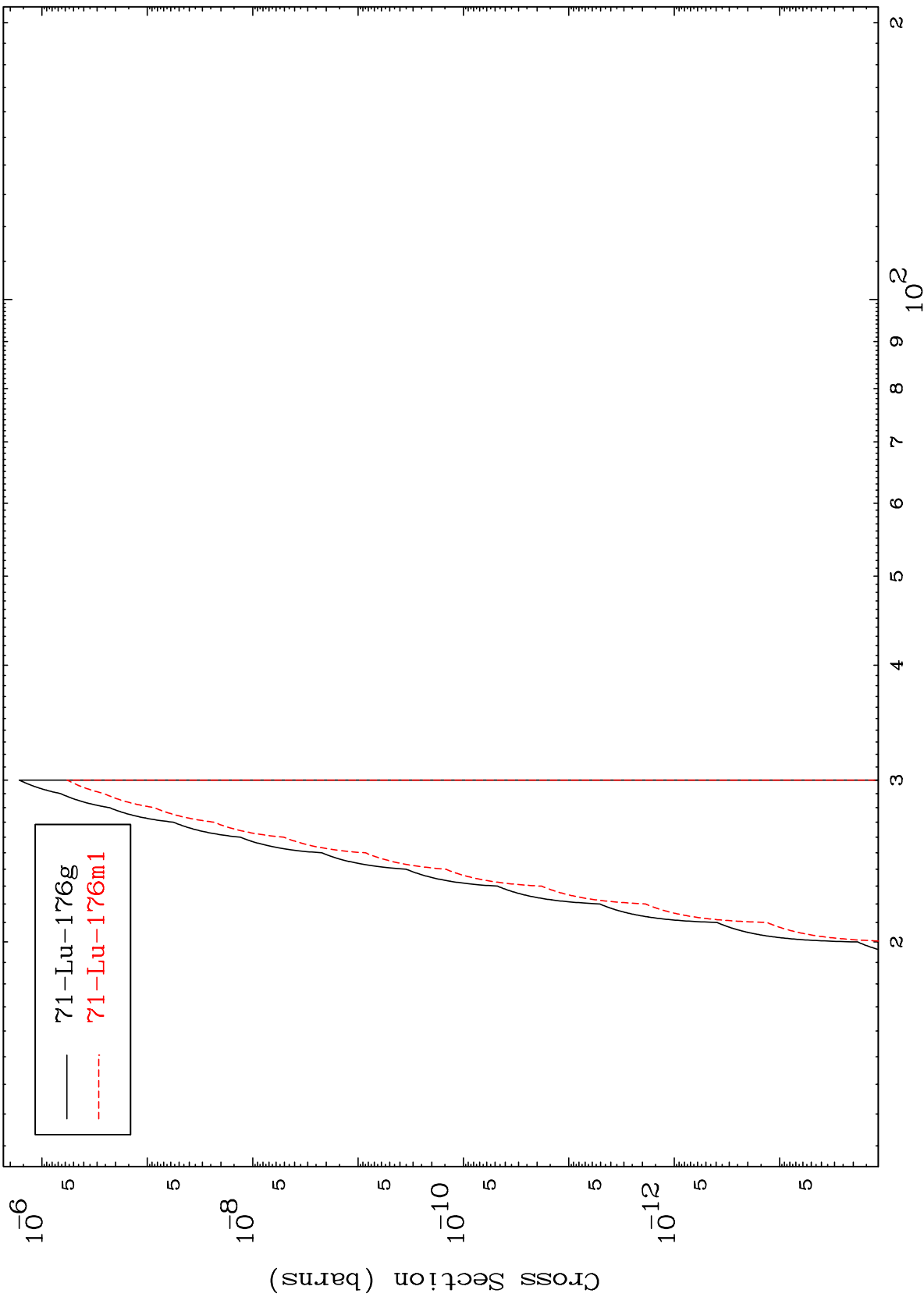
73-Ta-178

MAT 7319

(n,2n) p

⁷³Ta-178

Radionuclide Production Cross Section



118

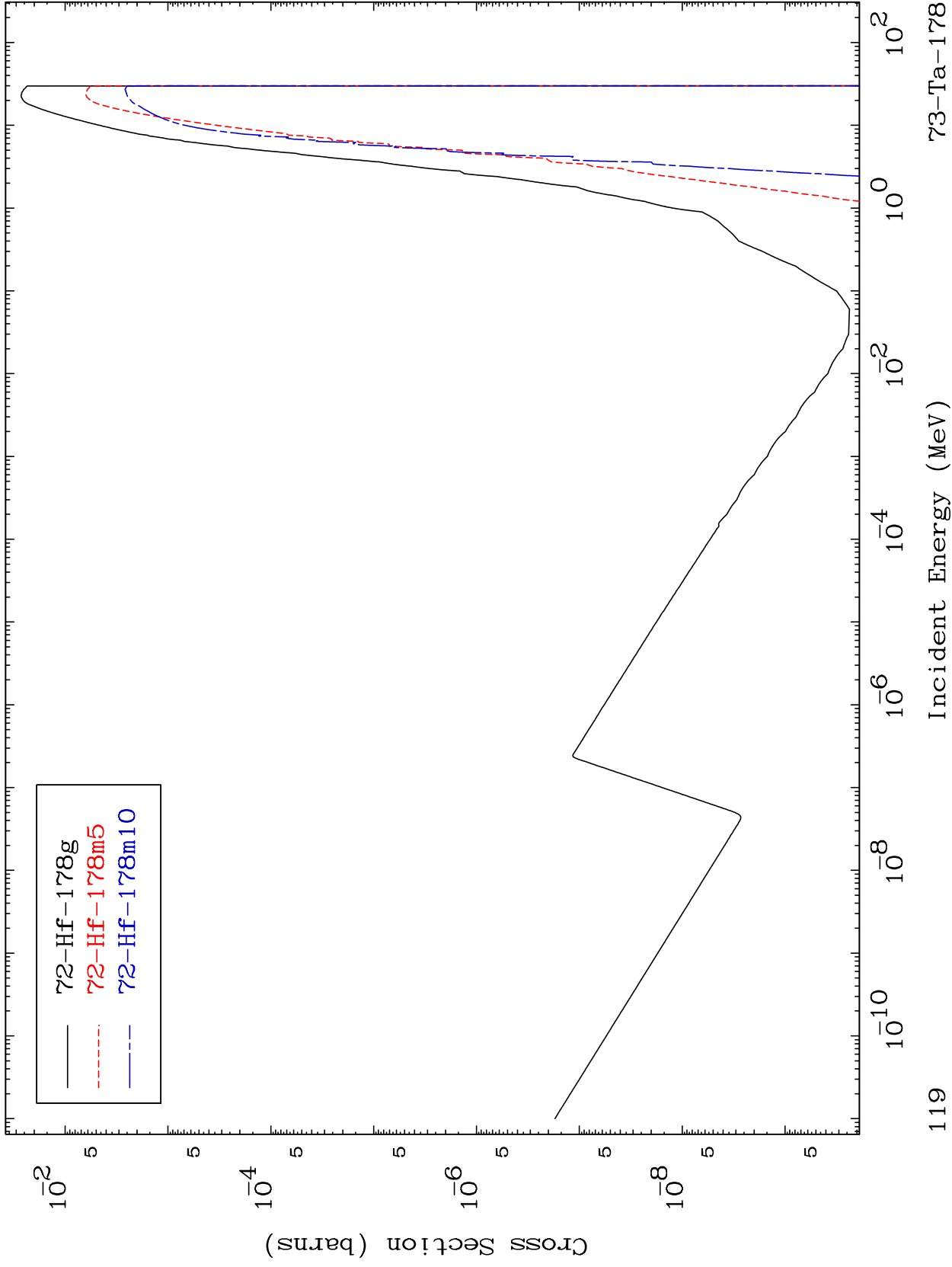
Incident Energy (MeV)

⁷³Ta-178

MAT 7319

Radionuclide Production Cross Section
(n,p)

⁷³Ta-¹⁷⁸

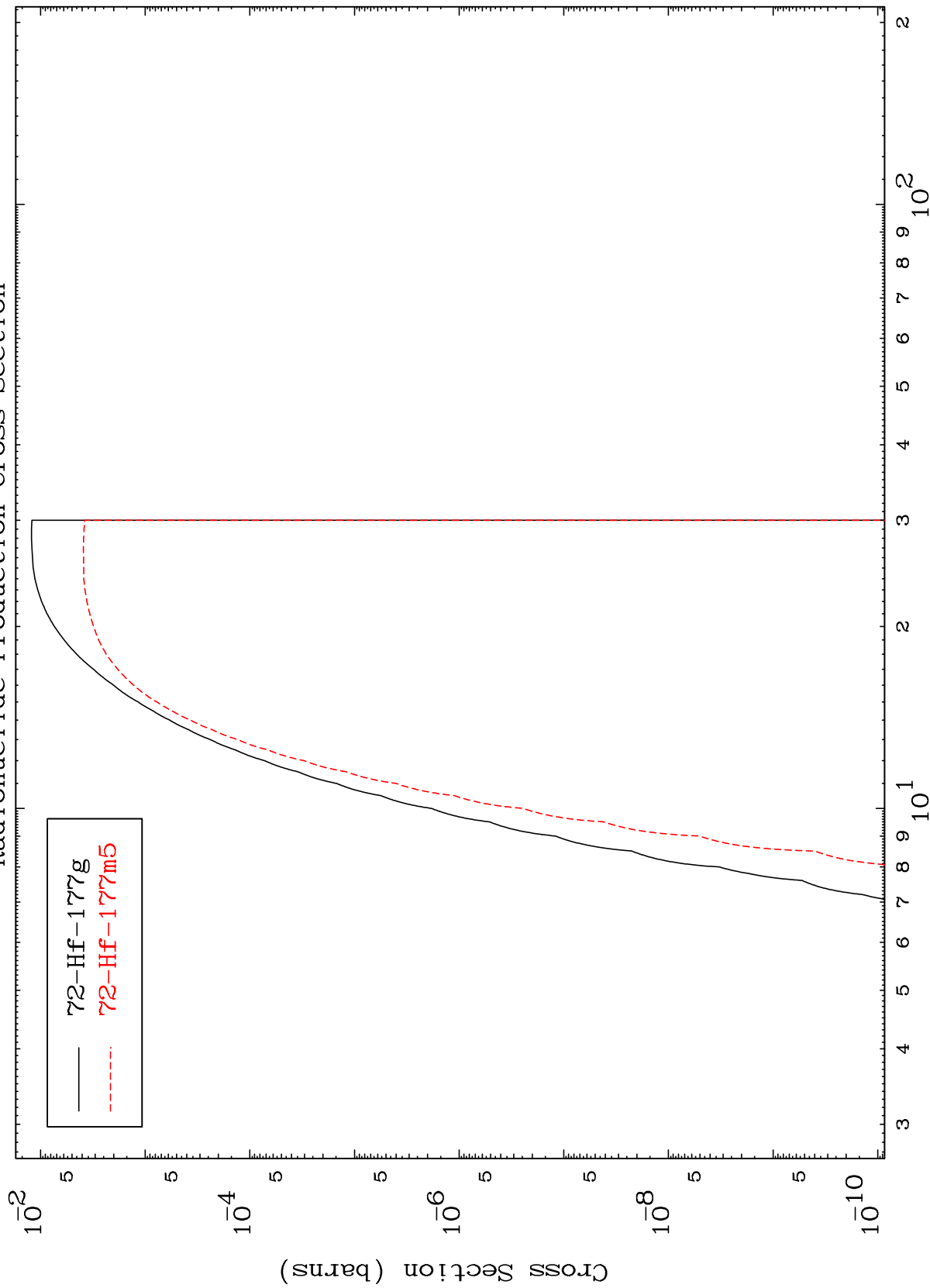


MAT 7319

(n,d)

⁷³Ta-178

Radionuclide Production Cross Section



120

Incident Energy (MeV)

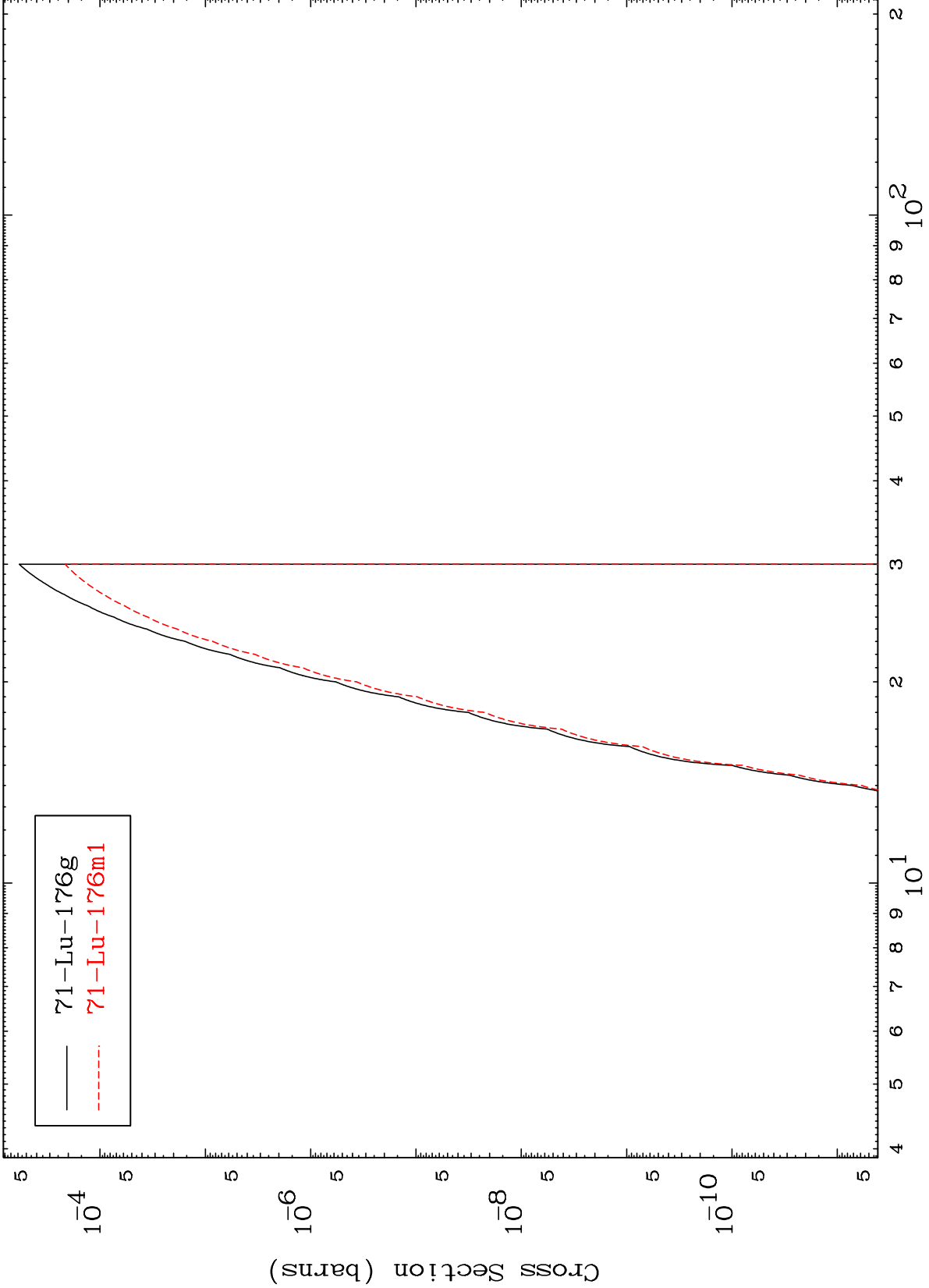
⁷³Ta-178

MAT 7319

(n,He-3)

73-Ta-178

Radionuclide Production Cross Section



71-Lu-176g
71-Lu-176m1

121

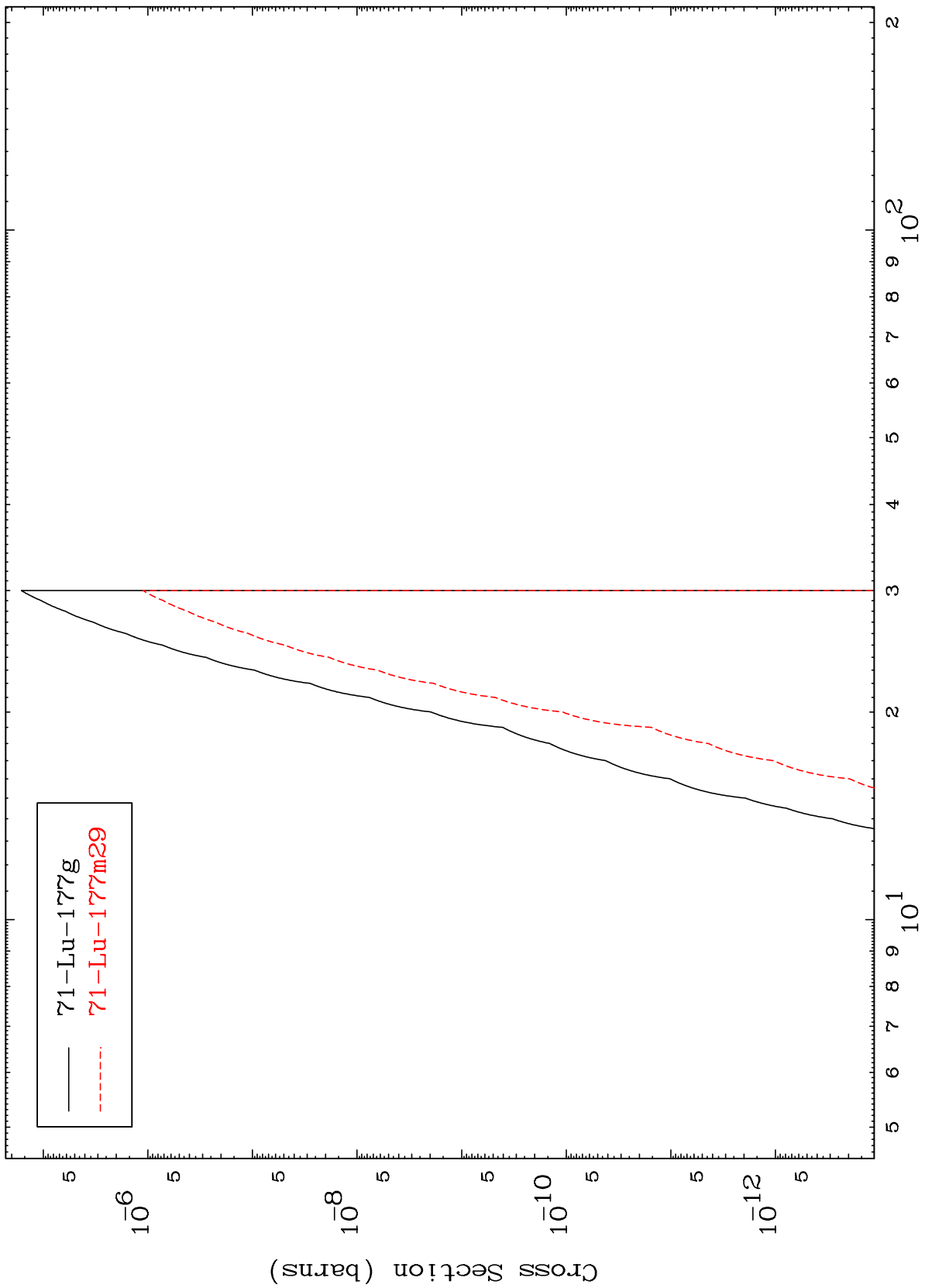
Incident Energy (MeV)

73-Ta-178

MAT 7319

⁷³Ta-178

(n,2p)
Radionuclide Production Cross Section



— 71-Lu-177g
- - - 71-Lu-177m29

122

Incident Energy (MeV)

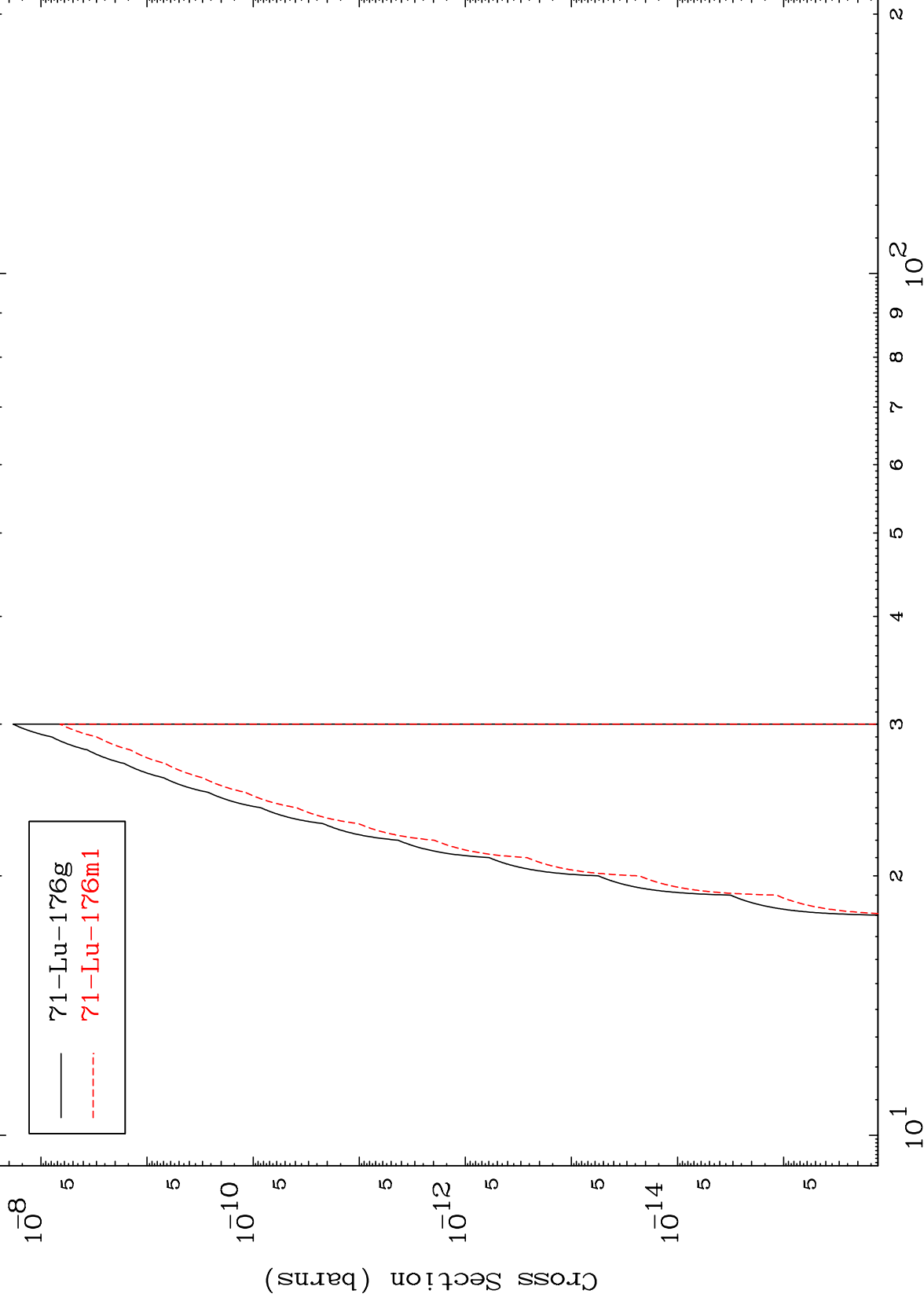
⁷³Ta-178

MAT 7319

(n,p) d

⁷³Ta-178

Radionuclide Production Cross Section



Incident Energy (MeV)

⁷³Ta-178

123