

Program EVALPLOT
(Version 2015-2)

by

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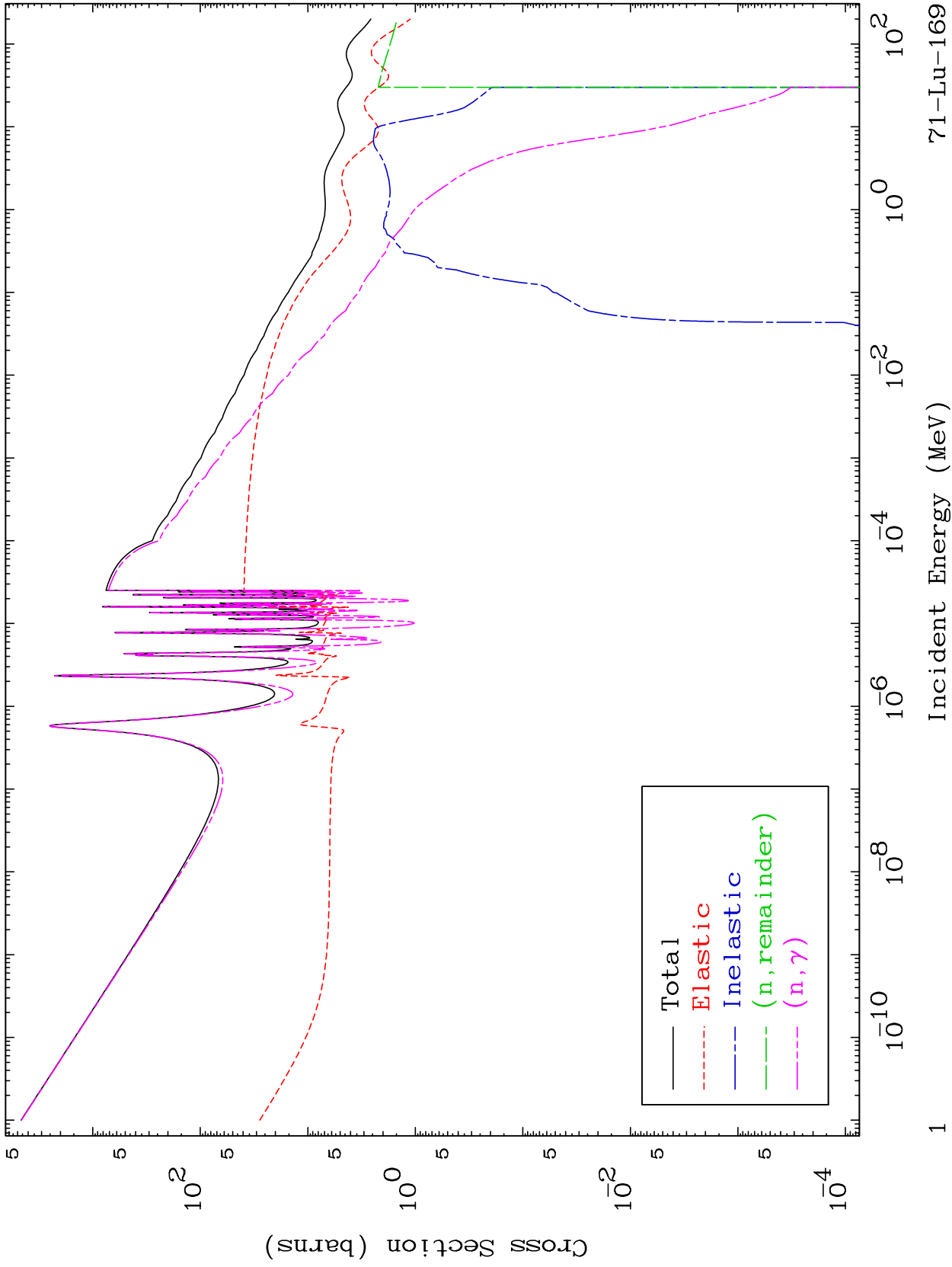
E.Mail:redcullen1@comcast.net
Web:home.comcast.net/~redcullen1

Press Mouse Button to Start

MAT 7107

Major
293 Kelvin Cross Sections

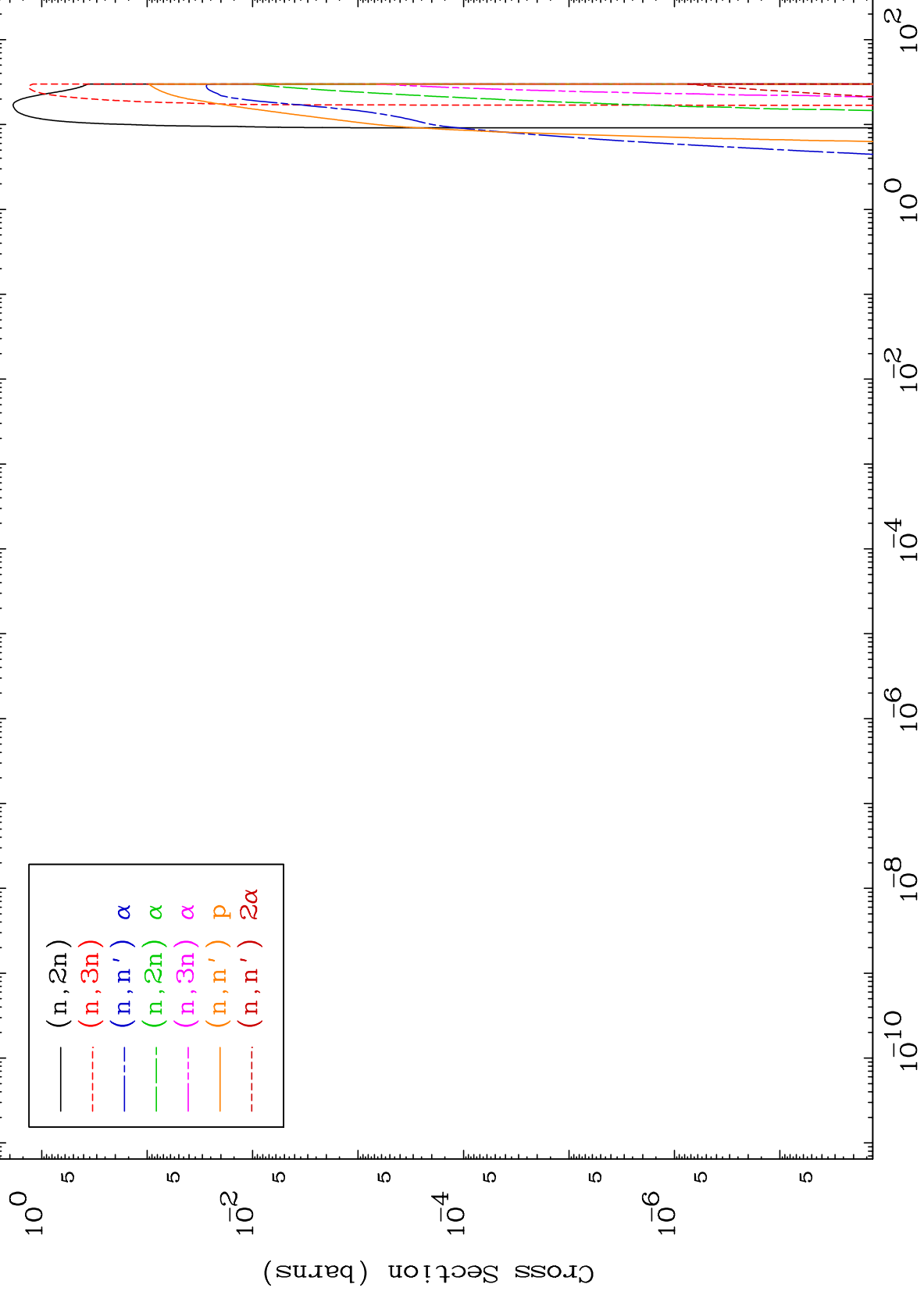
71-Lu-169



MAT 7107

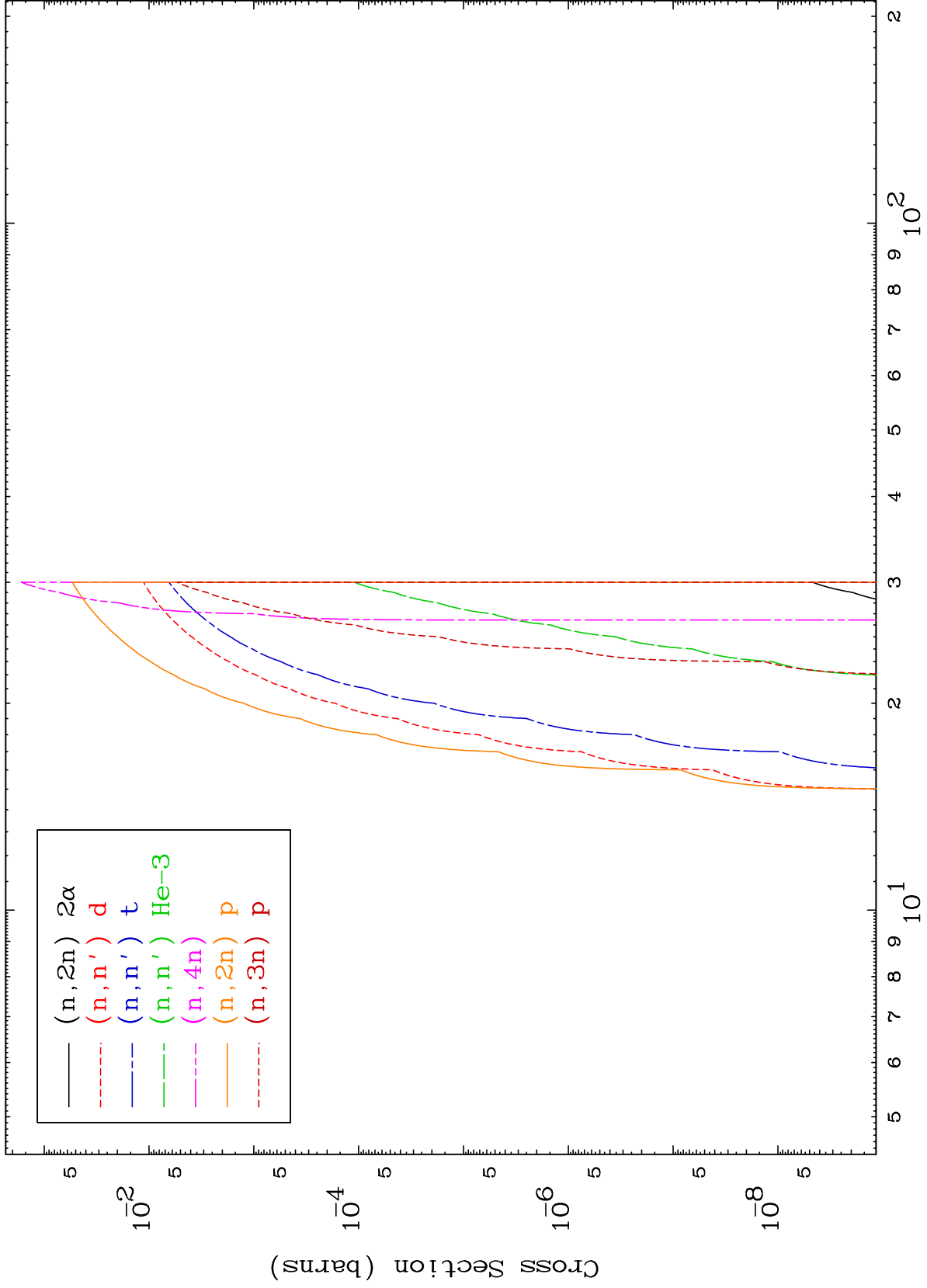
Neutron Production
293 Kelvin Cross Sections

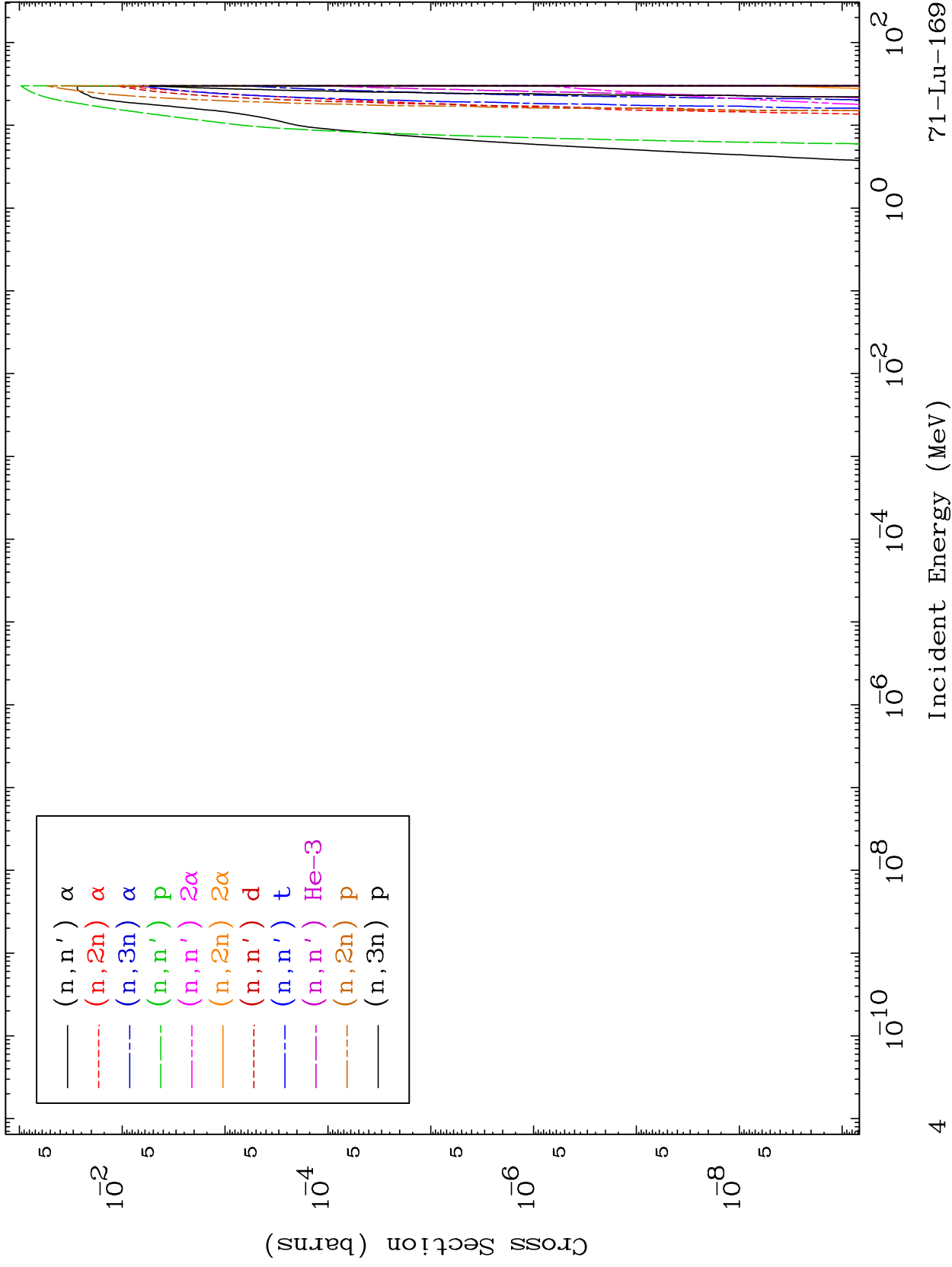
71-Lu-169



71-Lu-169

Incident Energy (MeV)

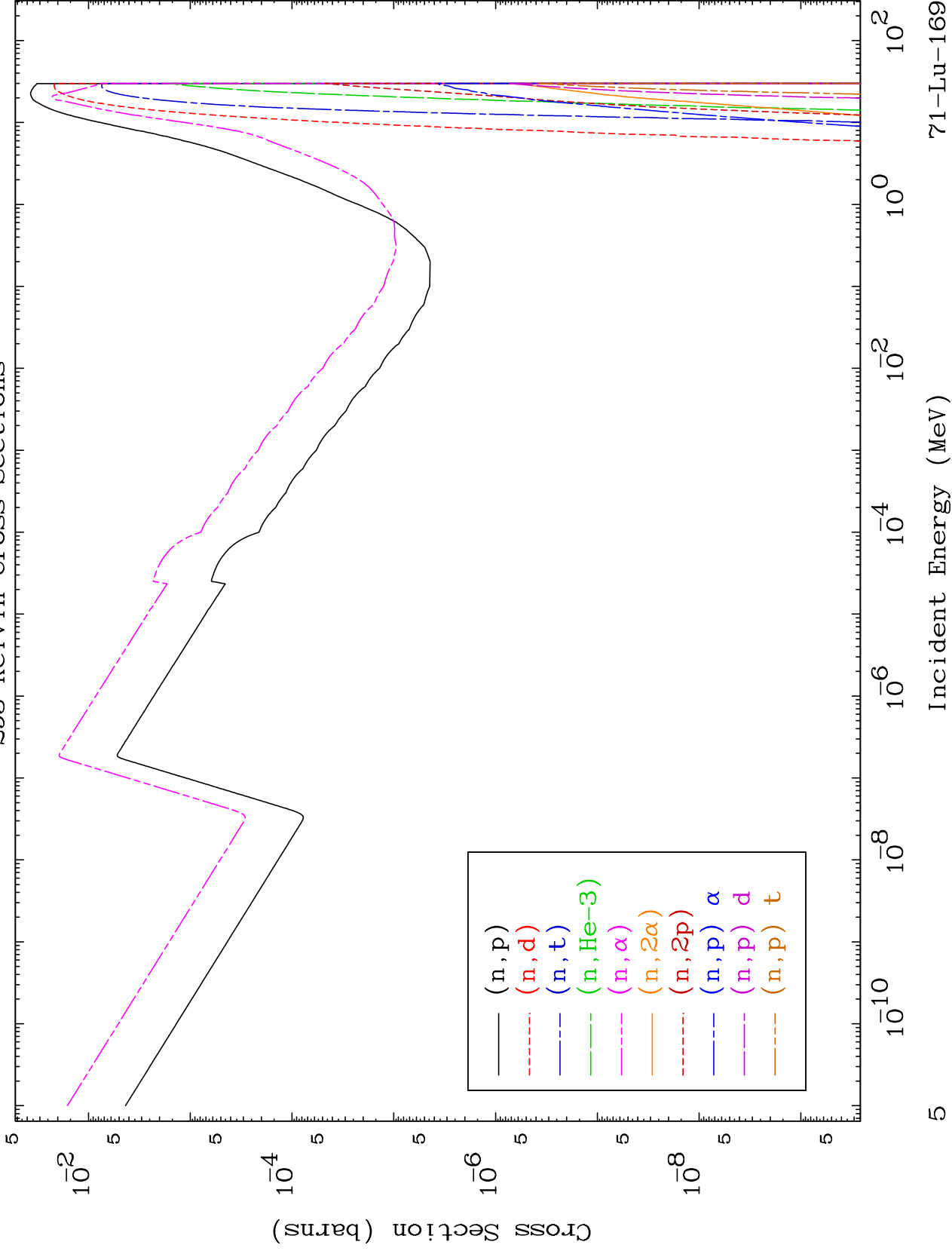


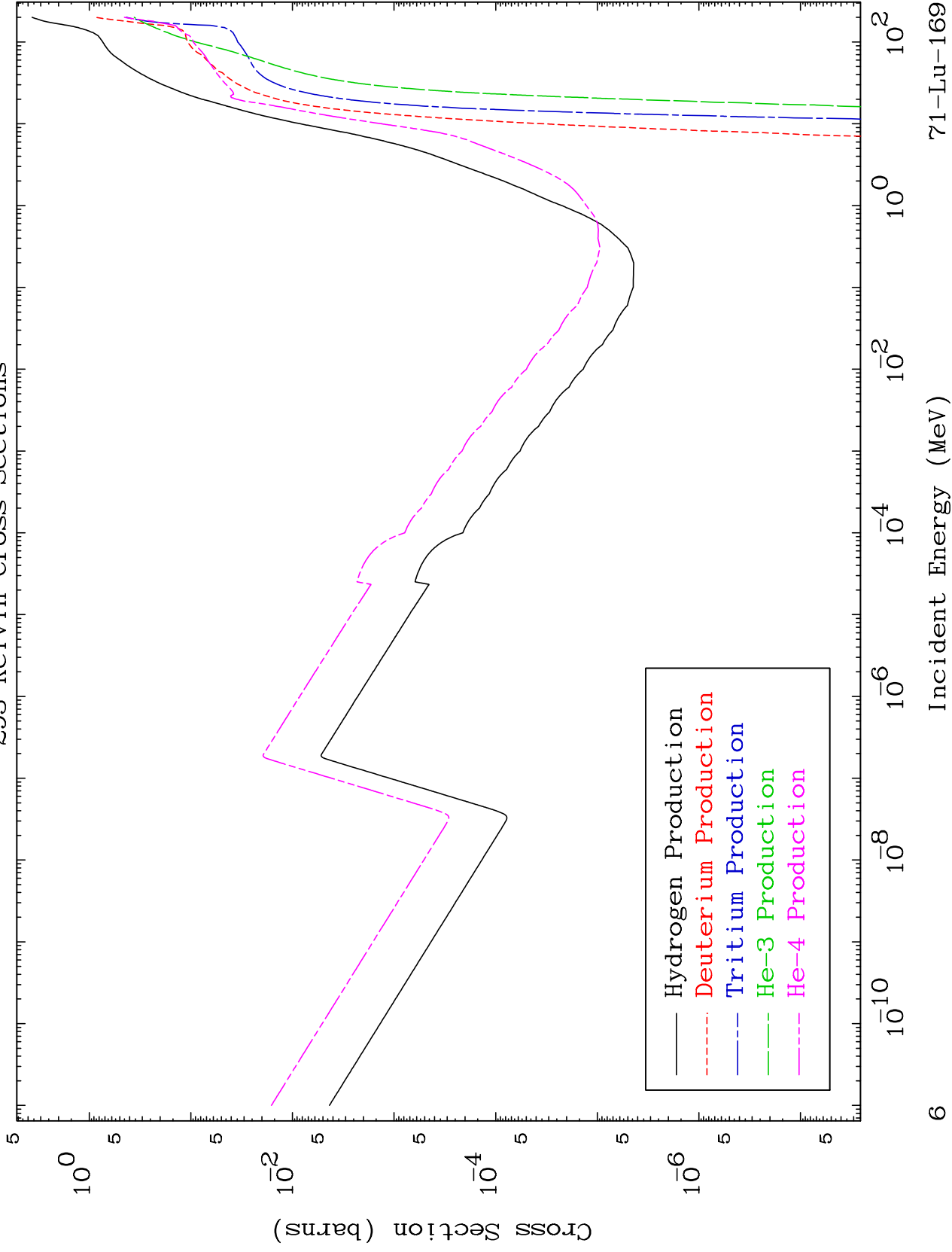


MAT 7107

Charged Particle
293 Kelvin Cross Sections

71-Lu-169

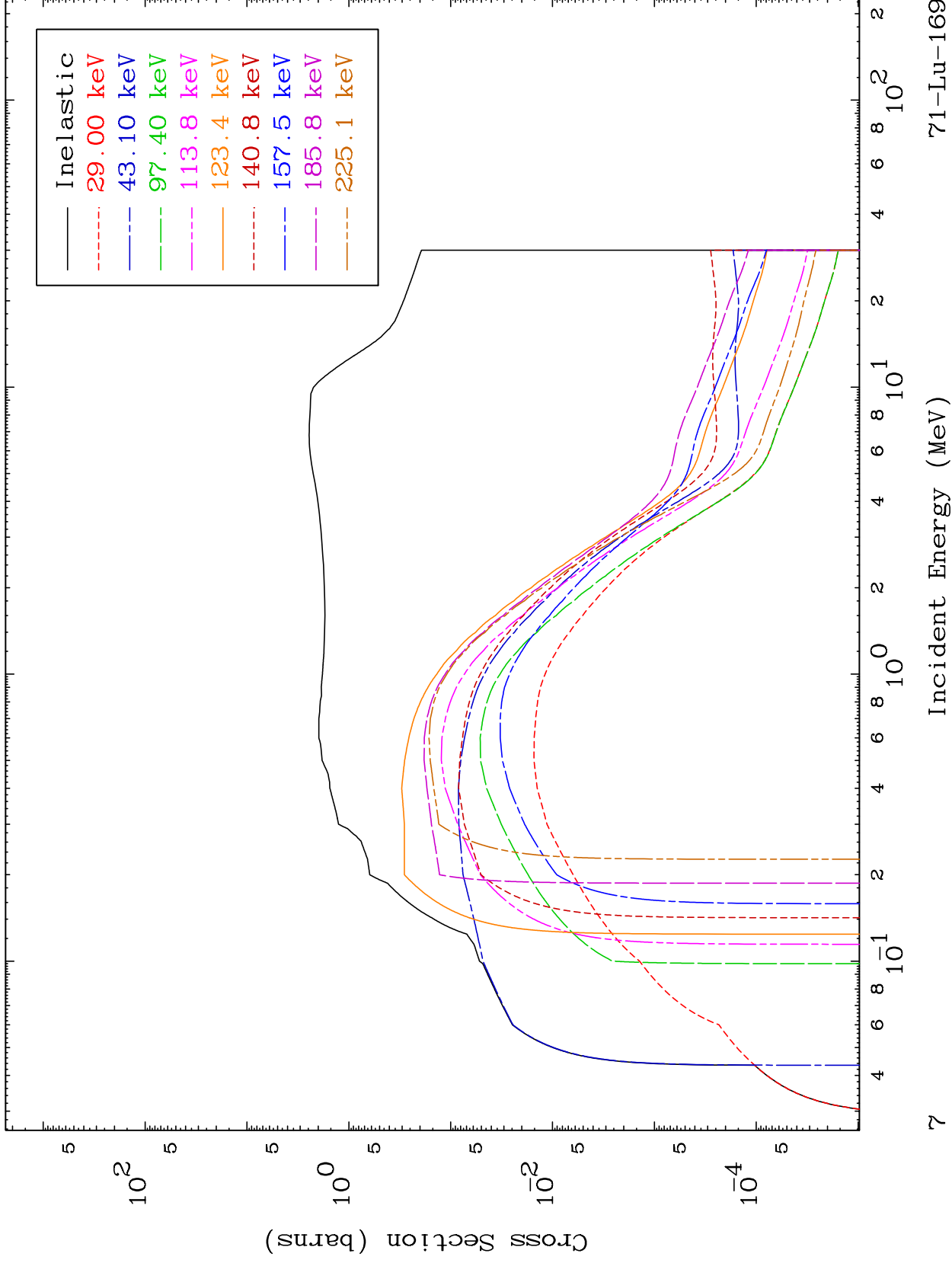




MAT 7107

(n,n') Level
293 Kelvin Cross Sections

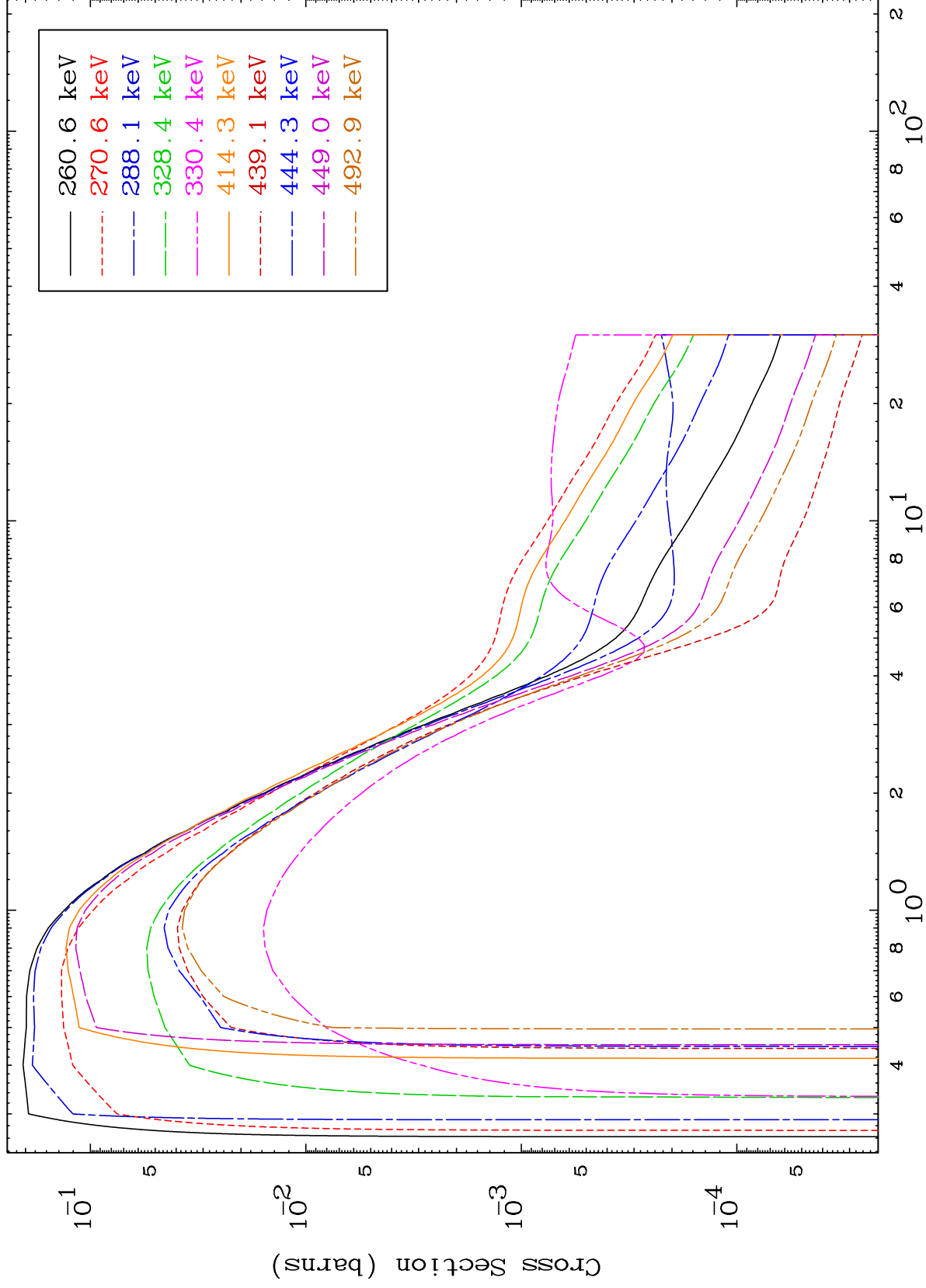
71-Lu-169



MAT 7107

(n,n') Level
293 Kelvin Cross Sections

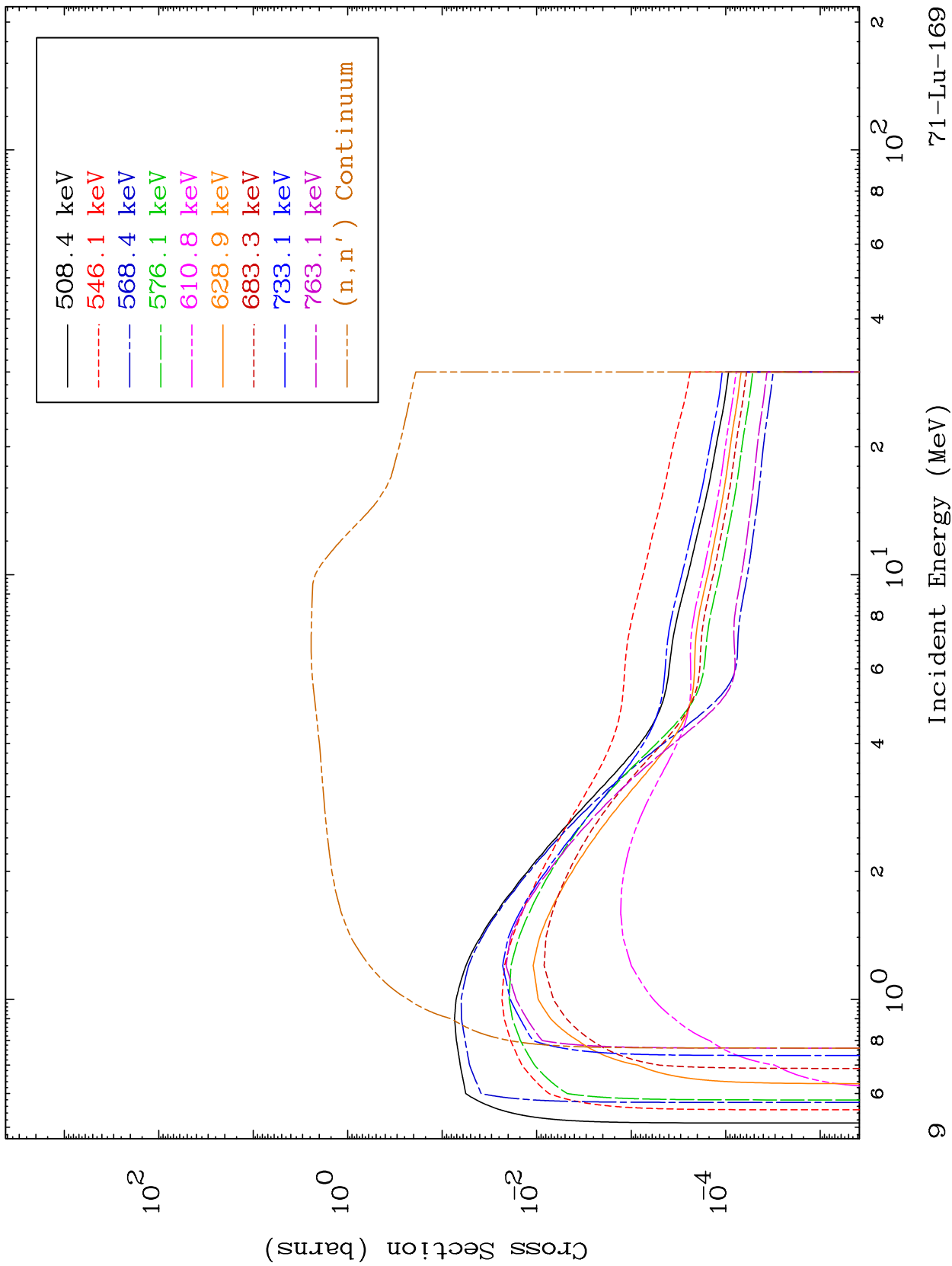
71-Lu-169



8

Incident Energy (MeV)

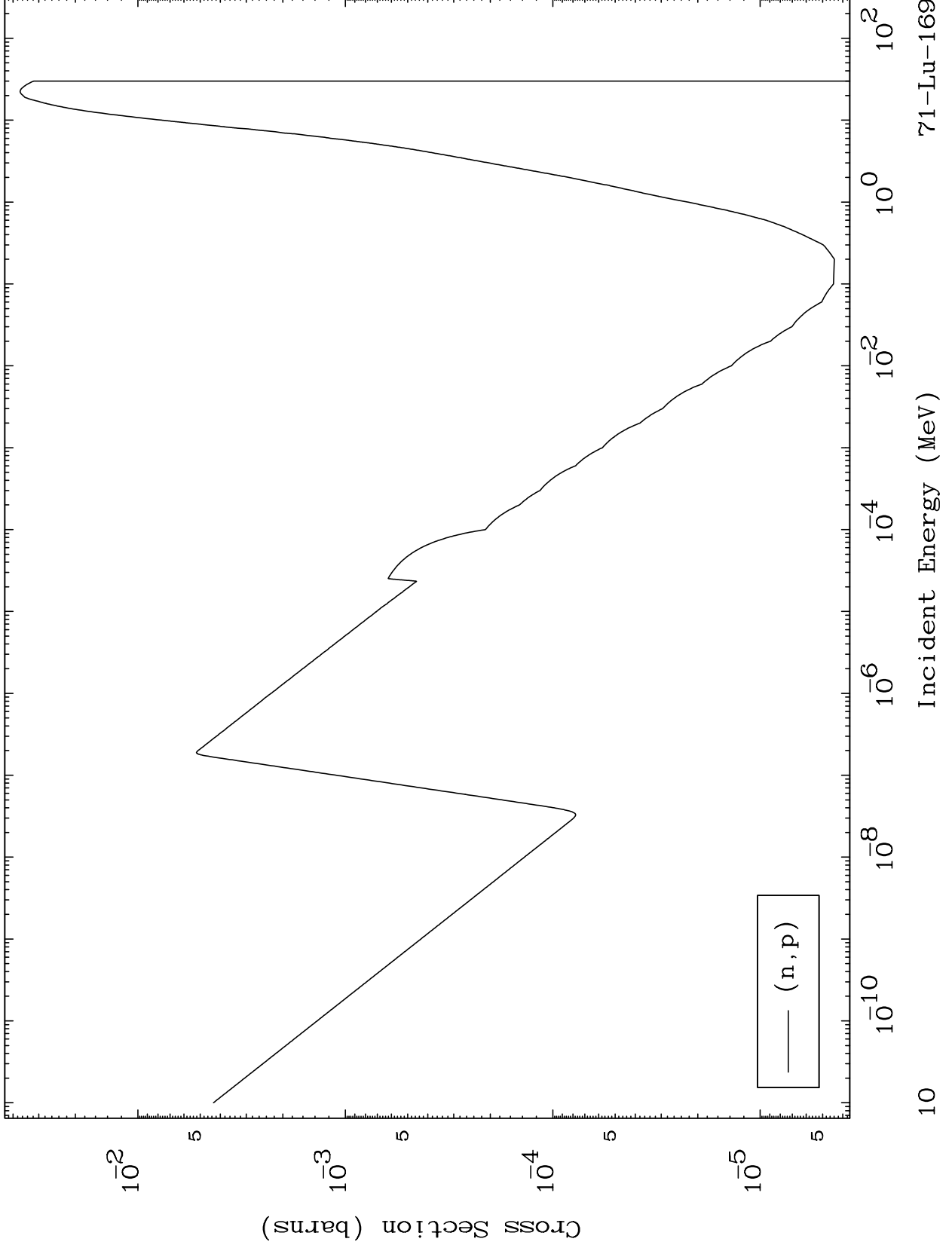
71-Lu-169



MAT 7107

(n,p) Levels
293 Kelvin Cross Sections

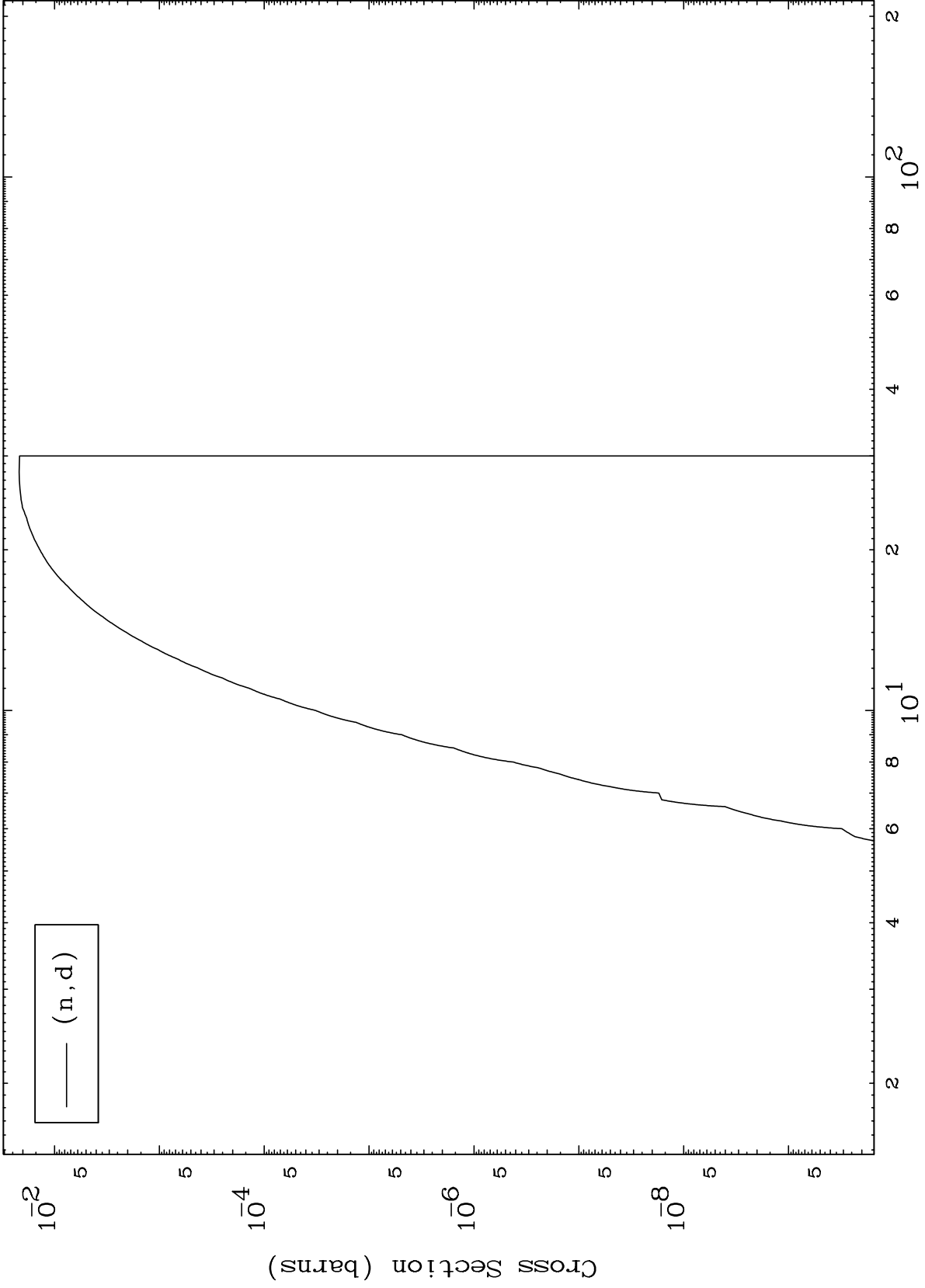
71-Lu-169

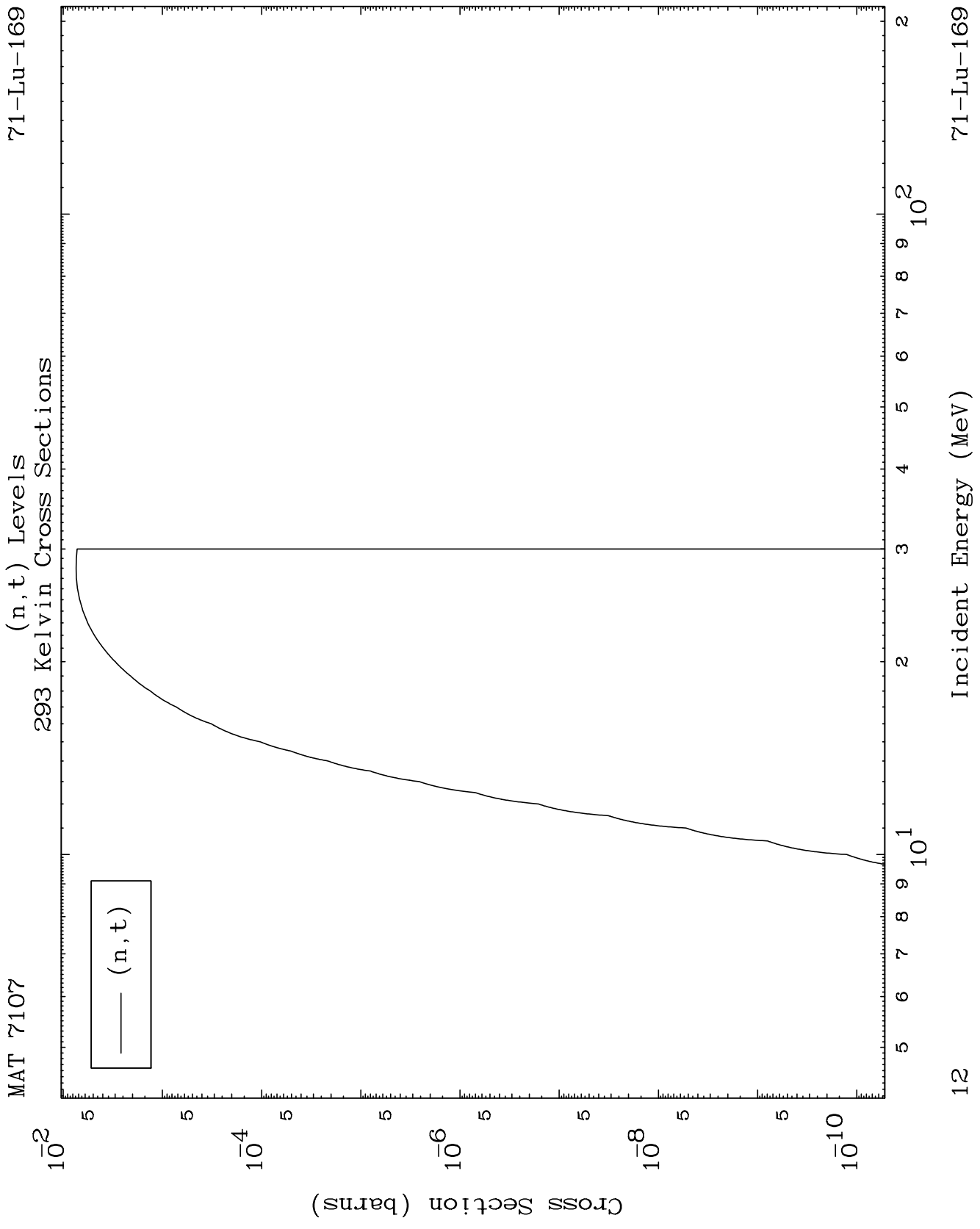


MAT 7107

(n,d) Levels
293 Kelvin Cross Sections

71-Lu-169

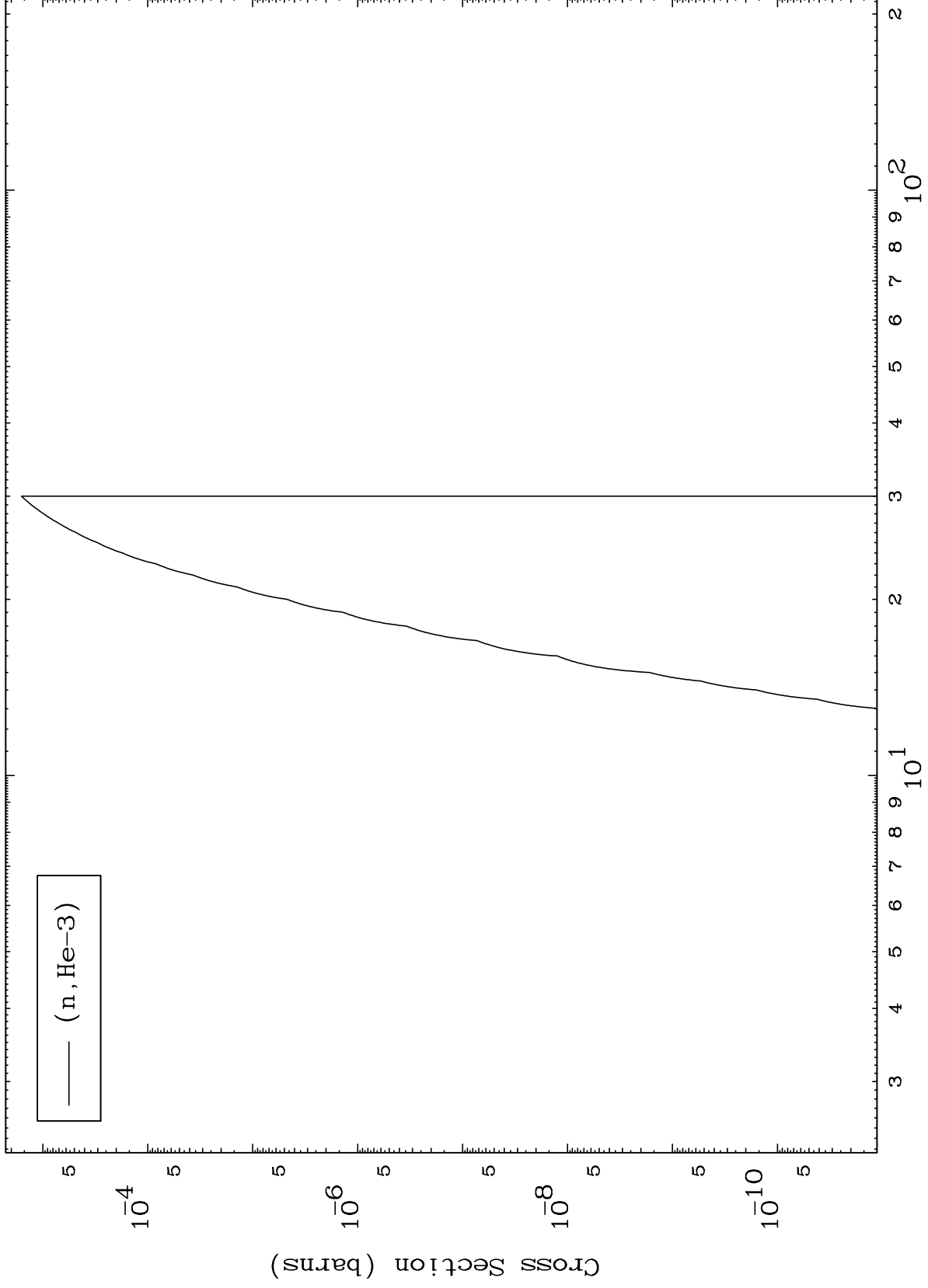




MAT 7107

(n,He3) Levels
293 Kelvin Cross Sections

71-Lu-169



13

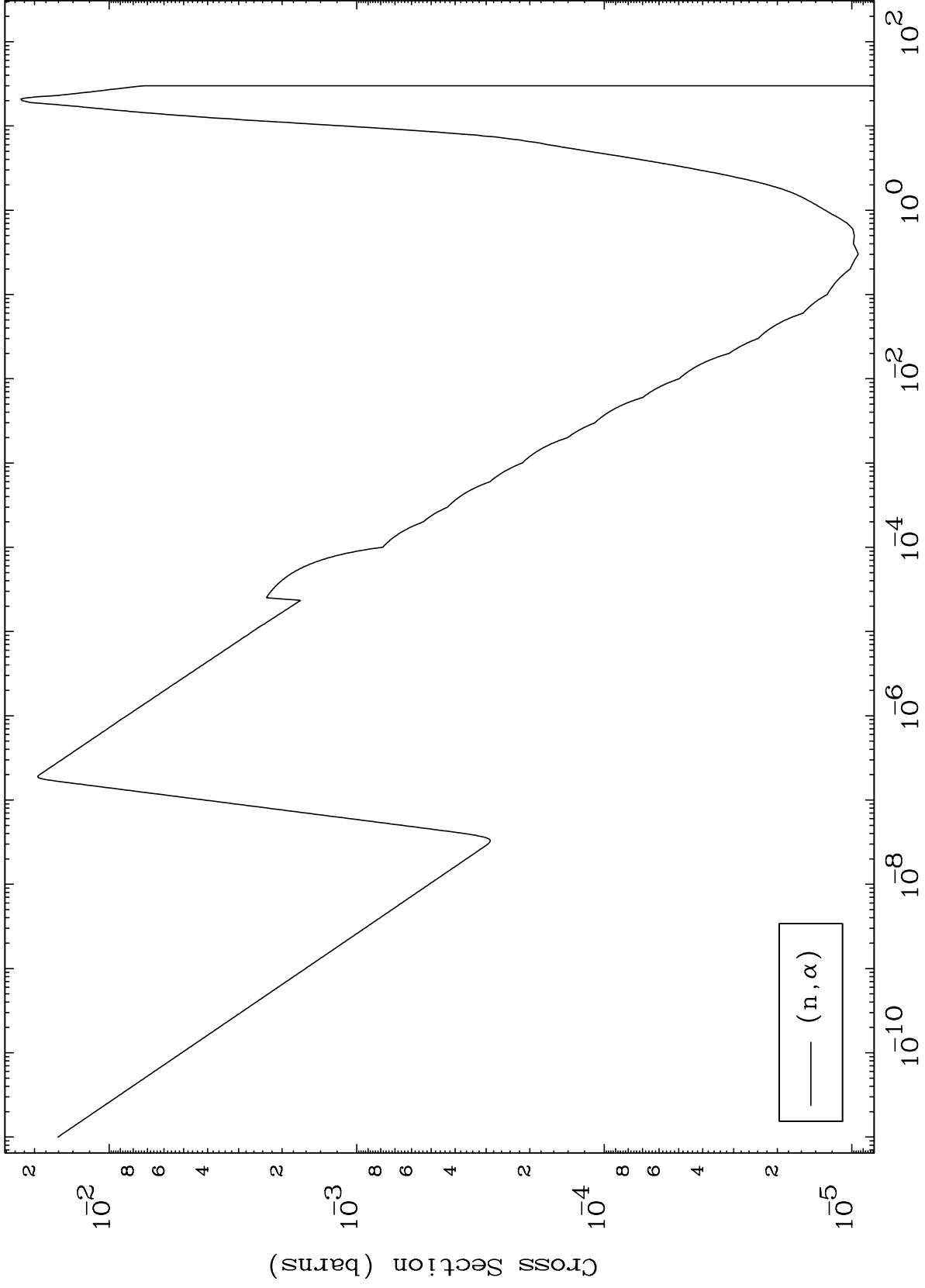
Incident Energy (MeV)

71-Lu-169

MAT 7107

(n,α) Levels
293 Kelvin Cross Sections

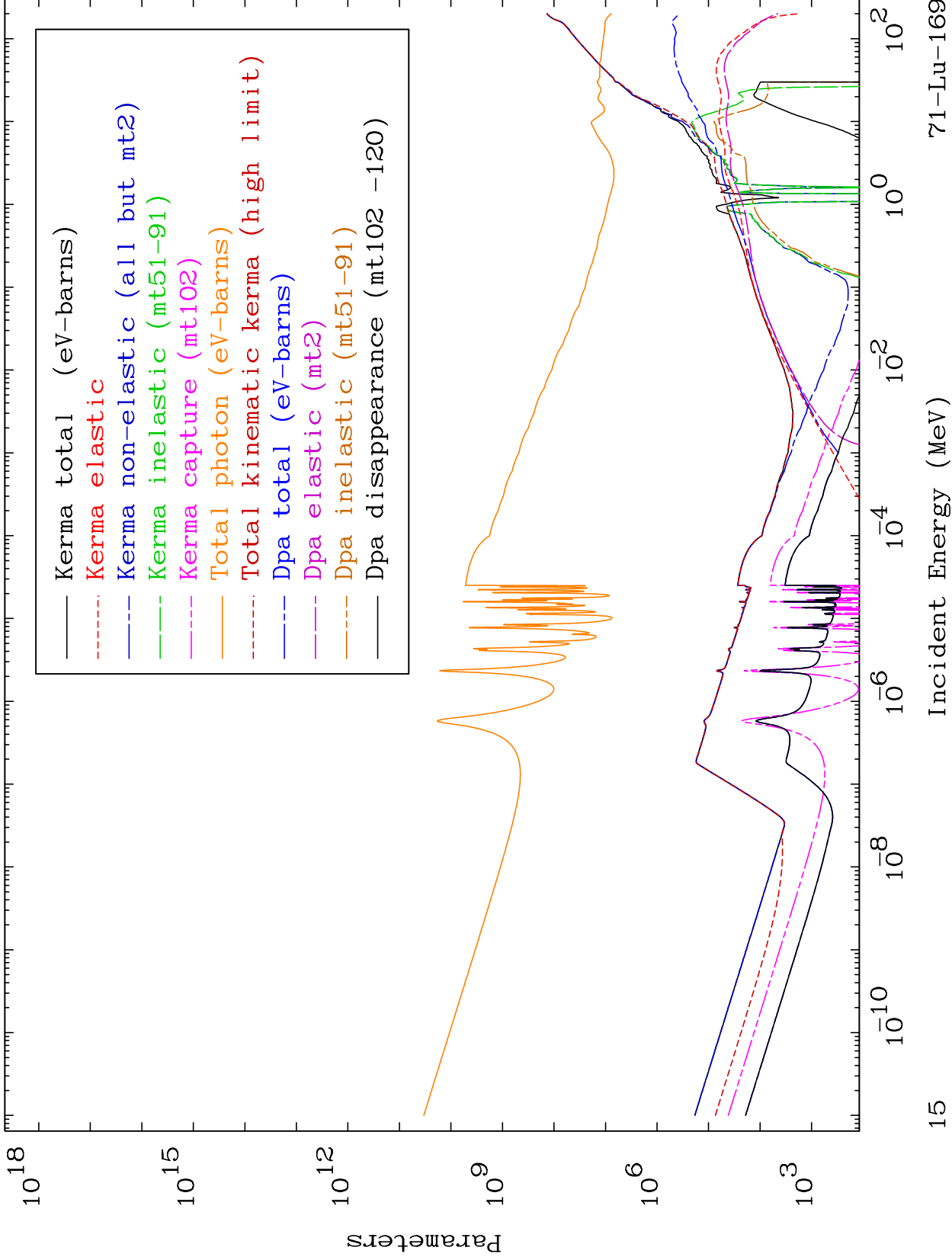
71-Lu-169



14

Incident Energy (MeV)

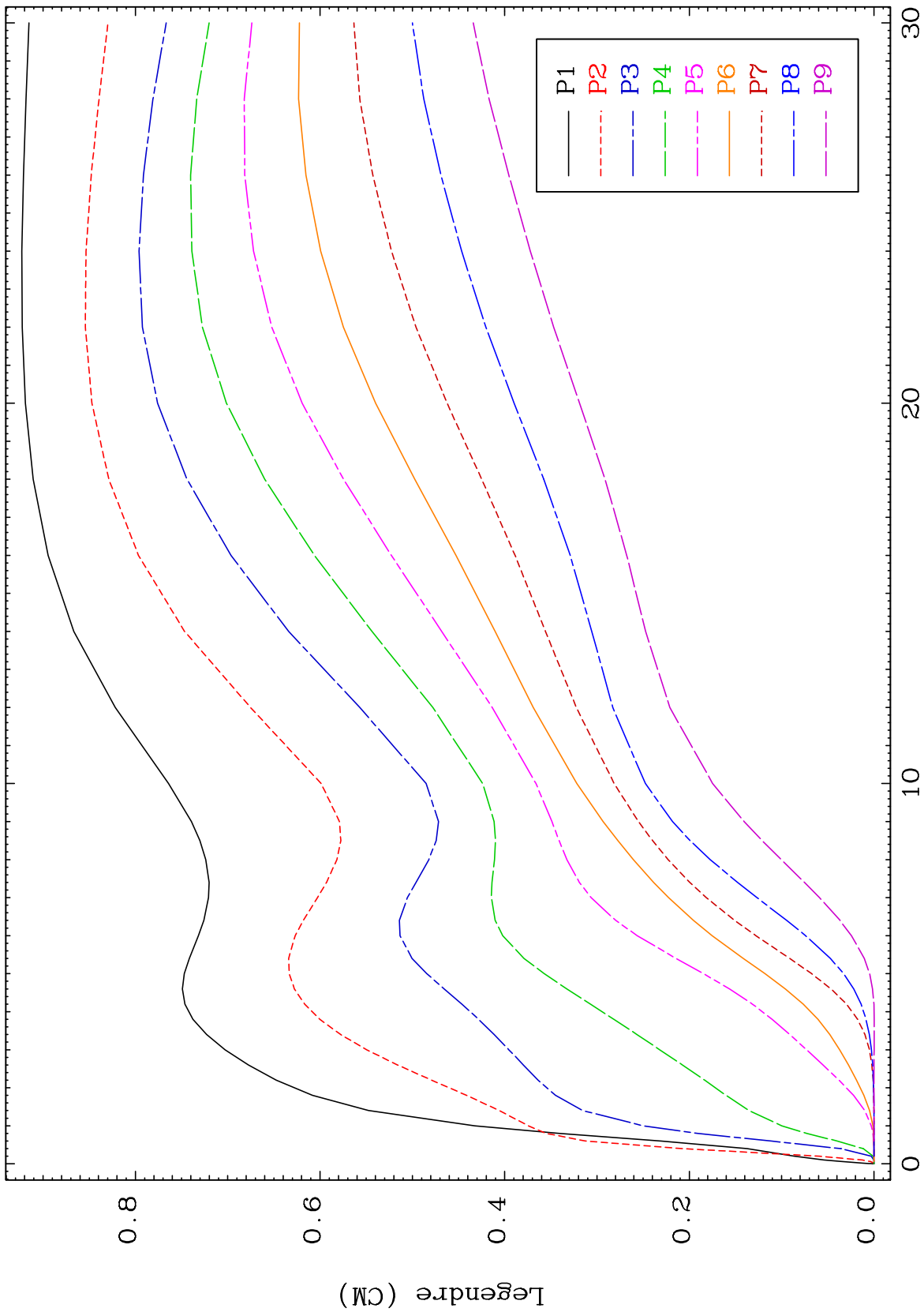
71-Lu-169



MAT 7107

71-Lu-169

Elastic Legendre Coefficients



16

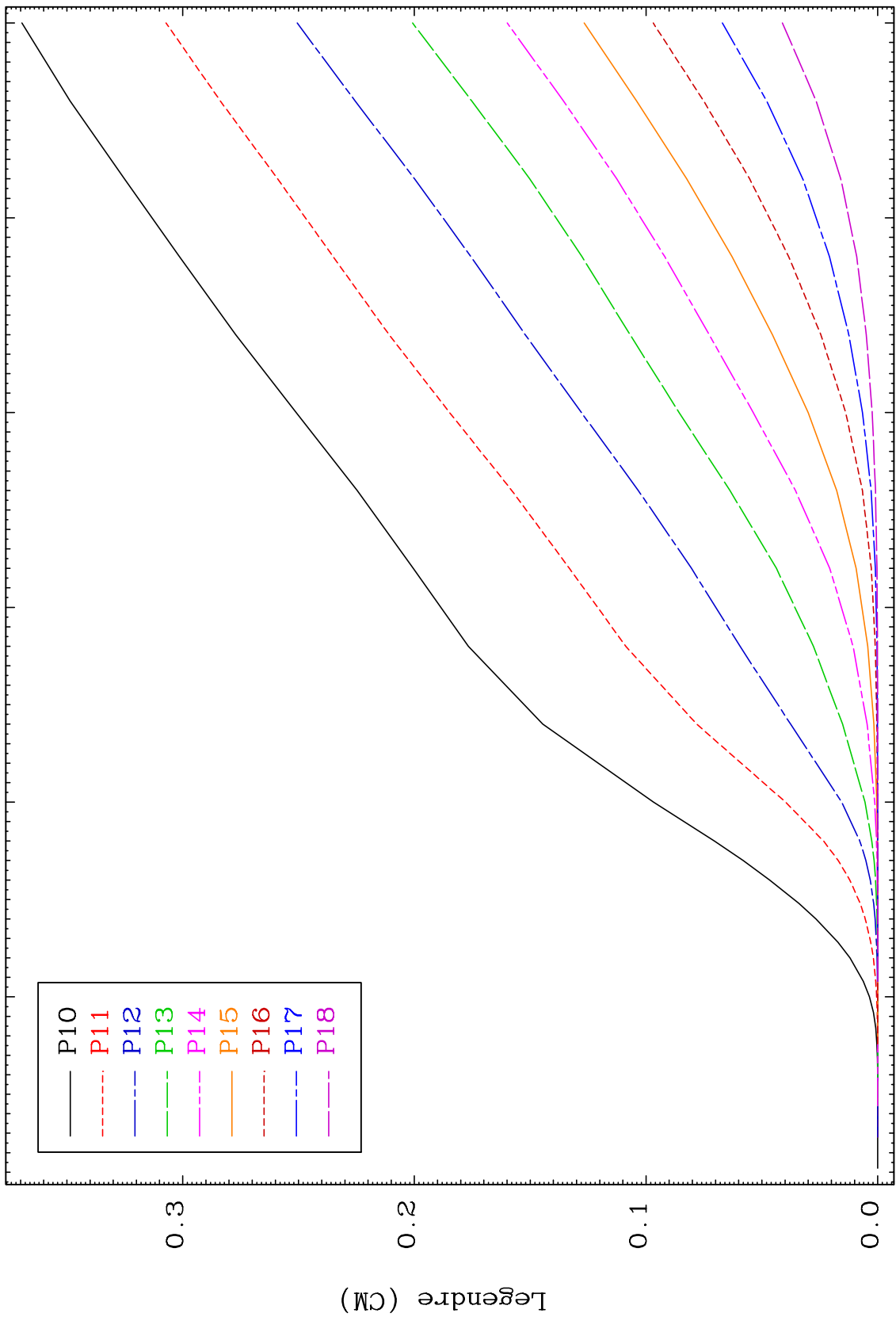
Incident Energy (MeV)

71-Lu-169

MAT 7107

Elastic Legendre Coefficients

⁷¹Lu-169



17

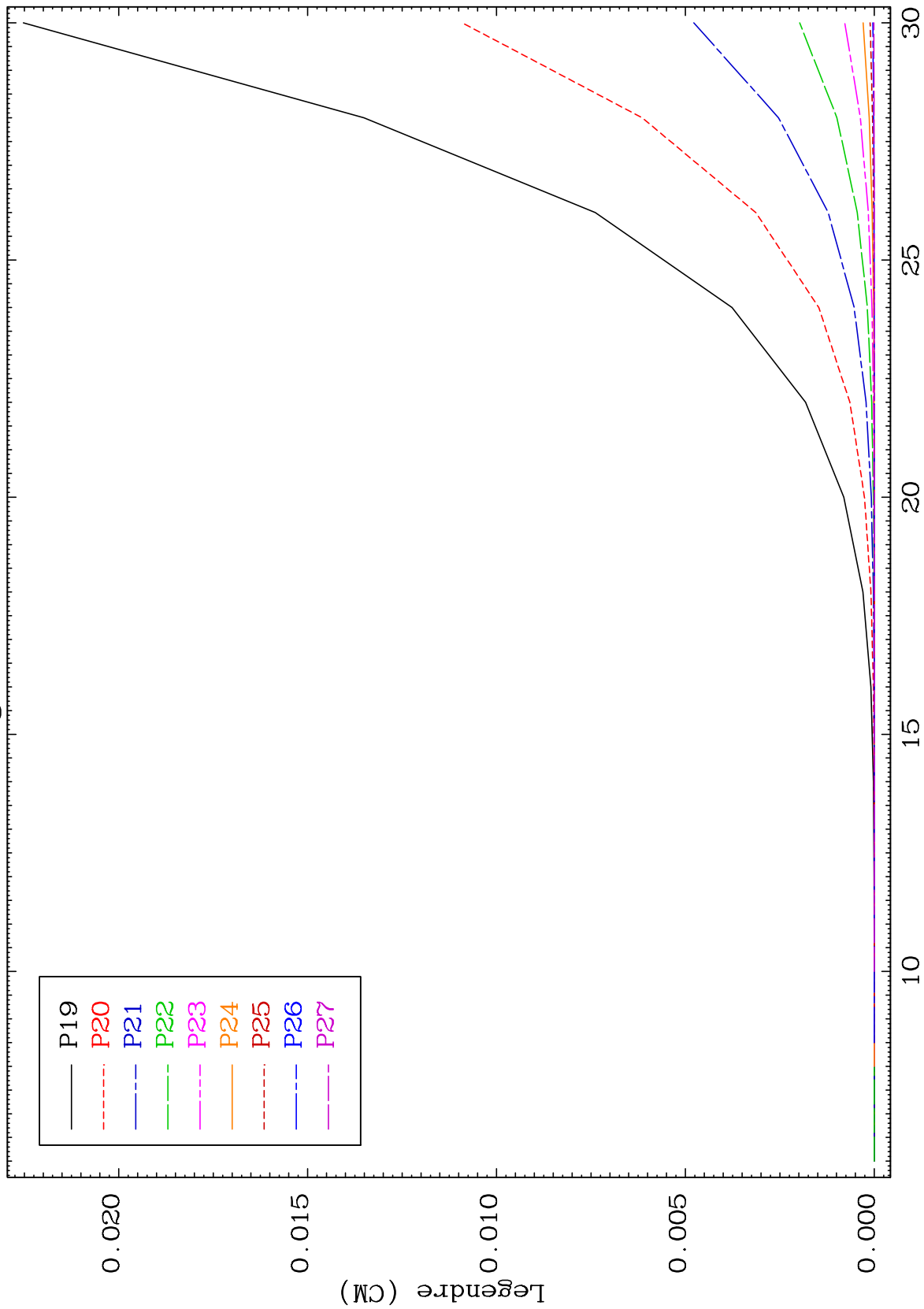
Incident Energy (MeV)

⁷¹Lu-169

MAT 7107

Elastic
Legendre Coefficients

71-Lu-169



18

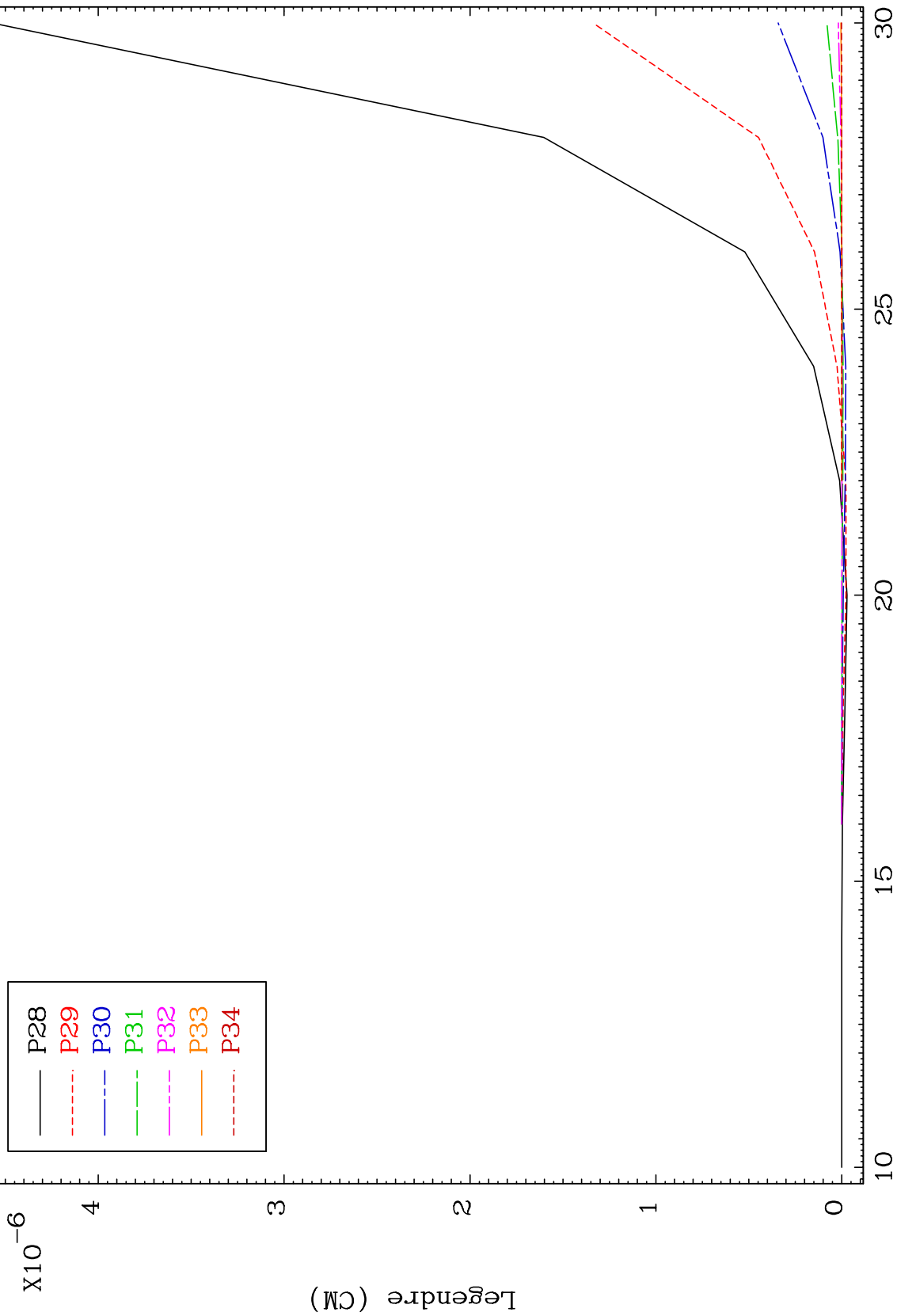
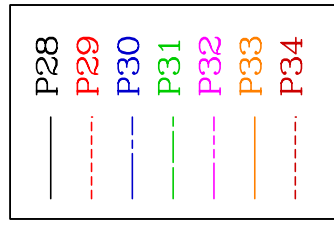
Incident Energy (MeV)

71-Lu-169

MAT 7107

Elastic Legendre Coefficients

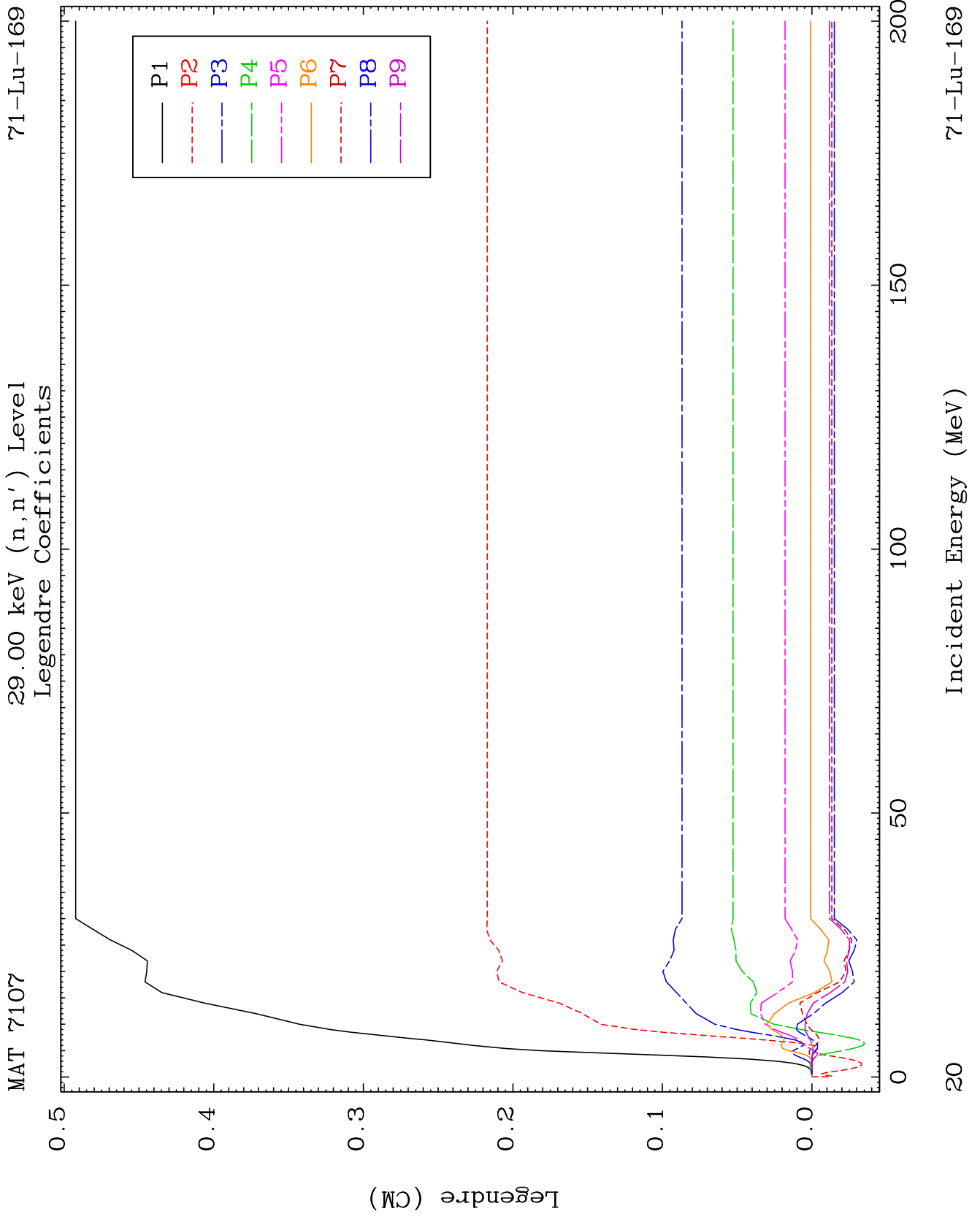
71-Lu-169



19

Incident Energy (MeV)

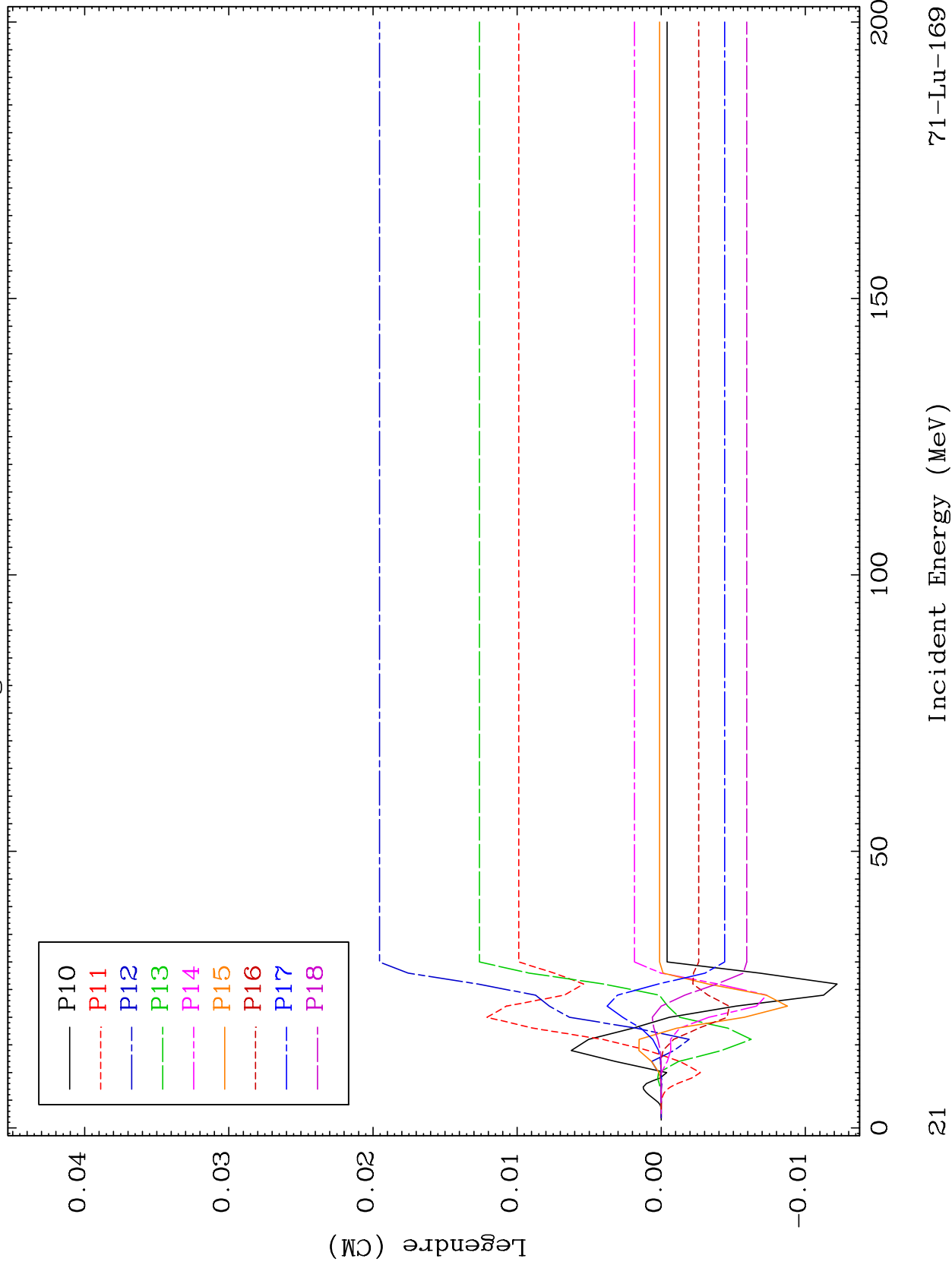
71-Lu-169



MAT 7107

29.00 keV (n,n') Level
Legendre Coefficients

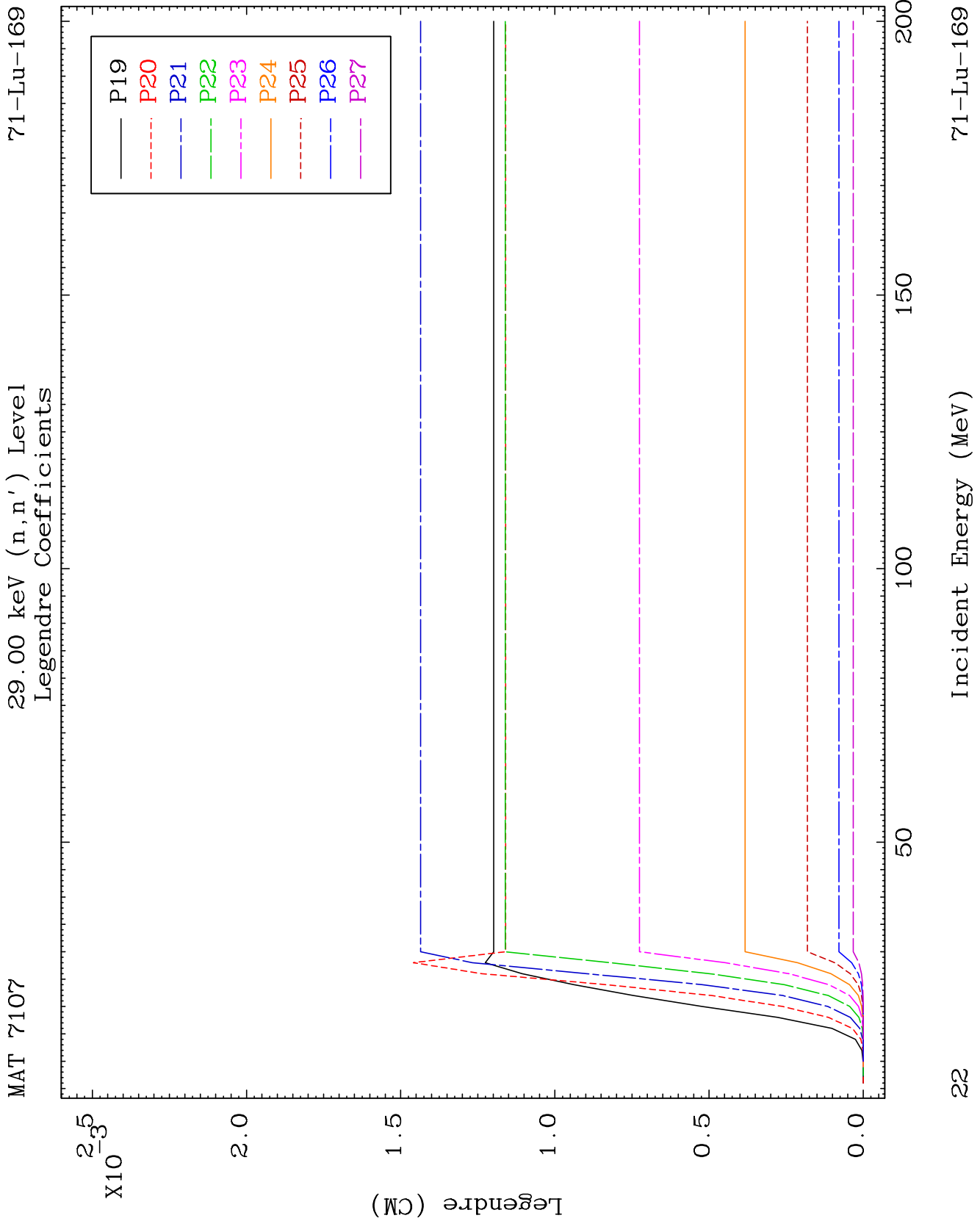
71-Lu-169

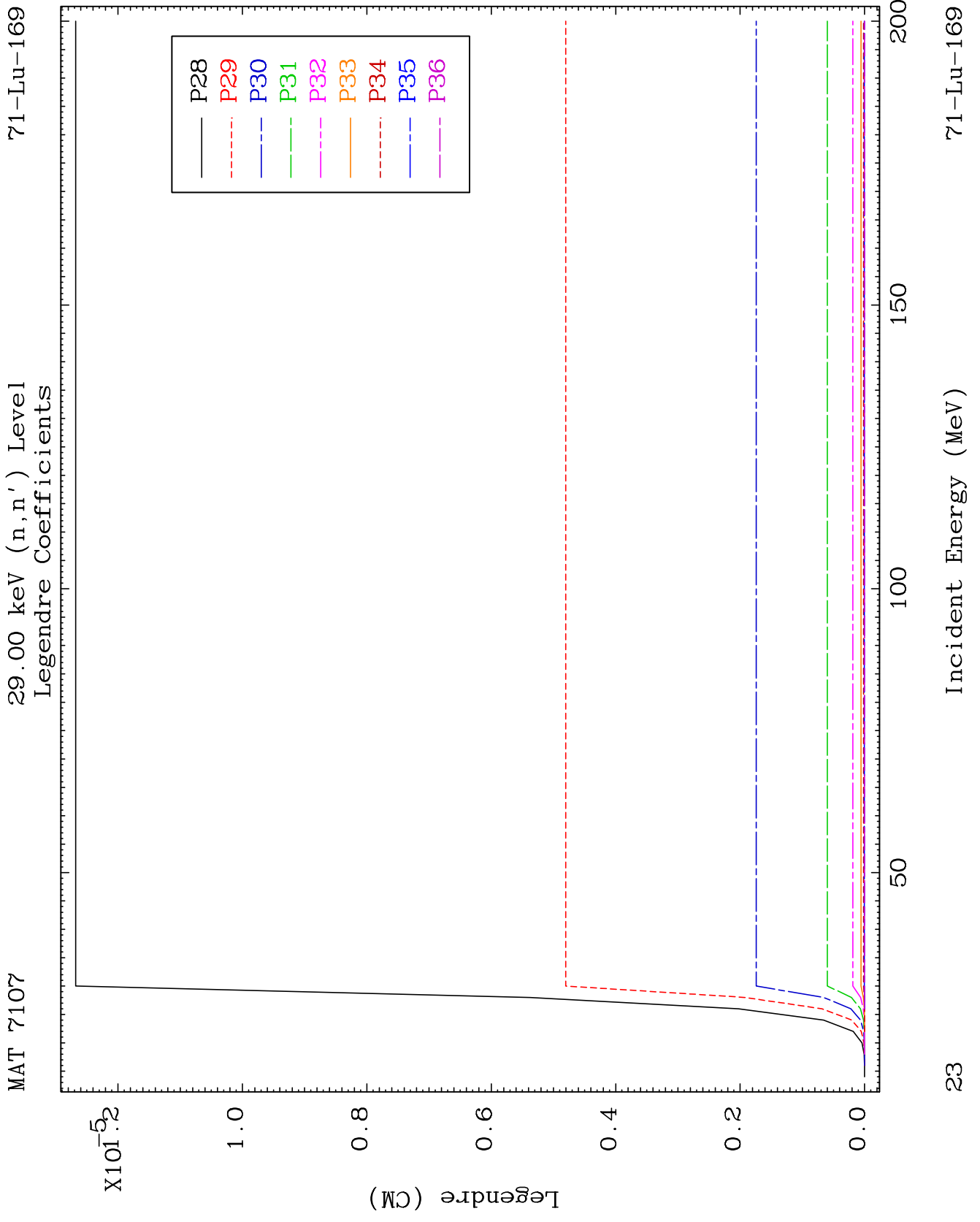


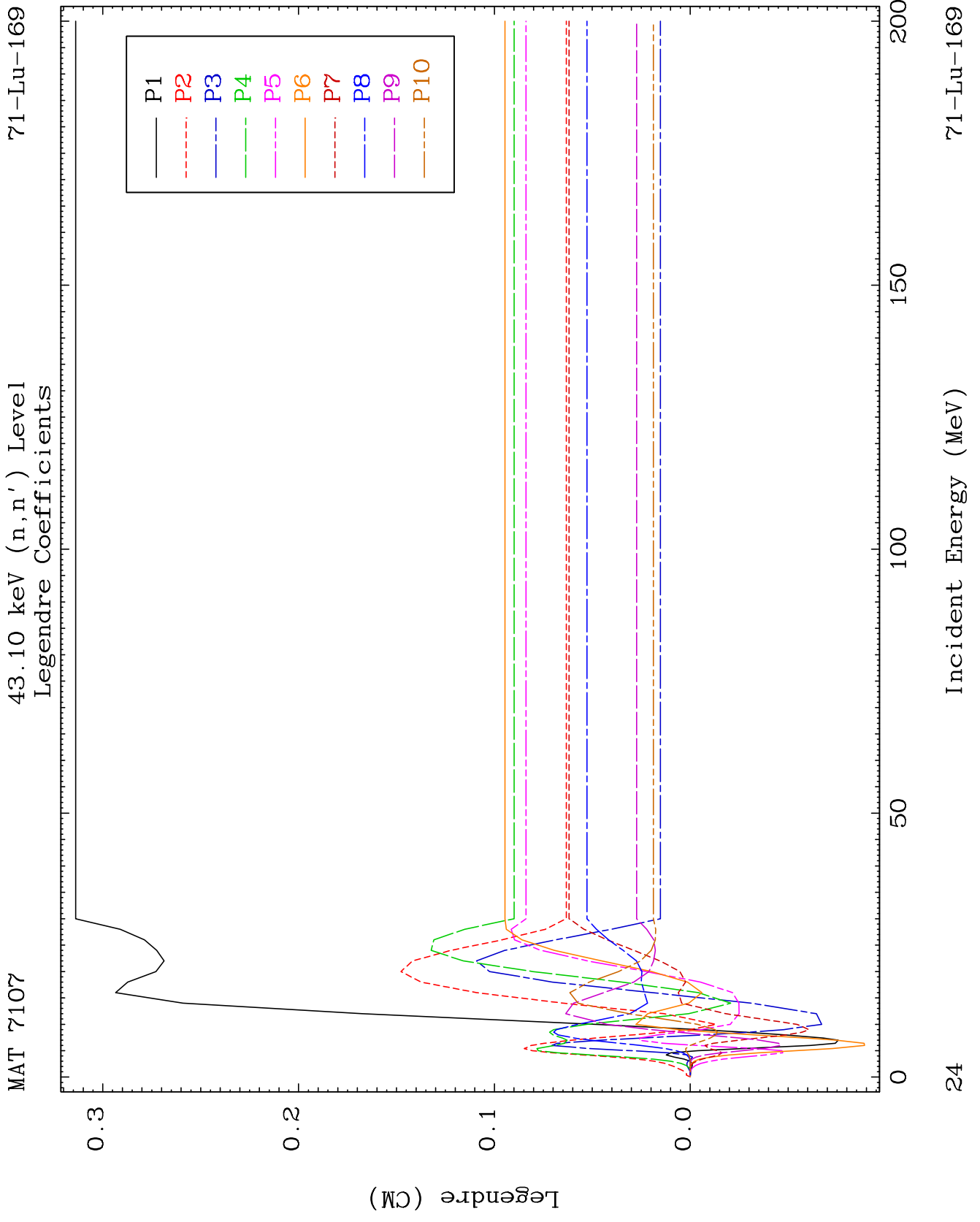
71-Lu-169

Incident Energy (MeV)

21



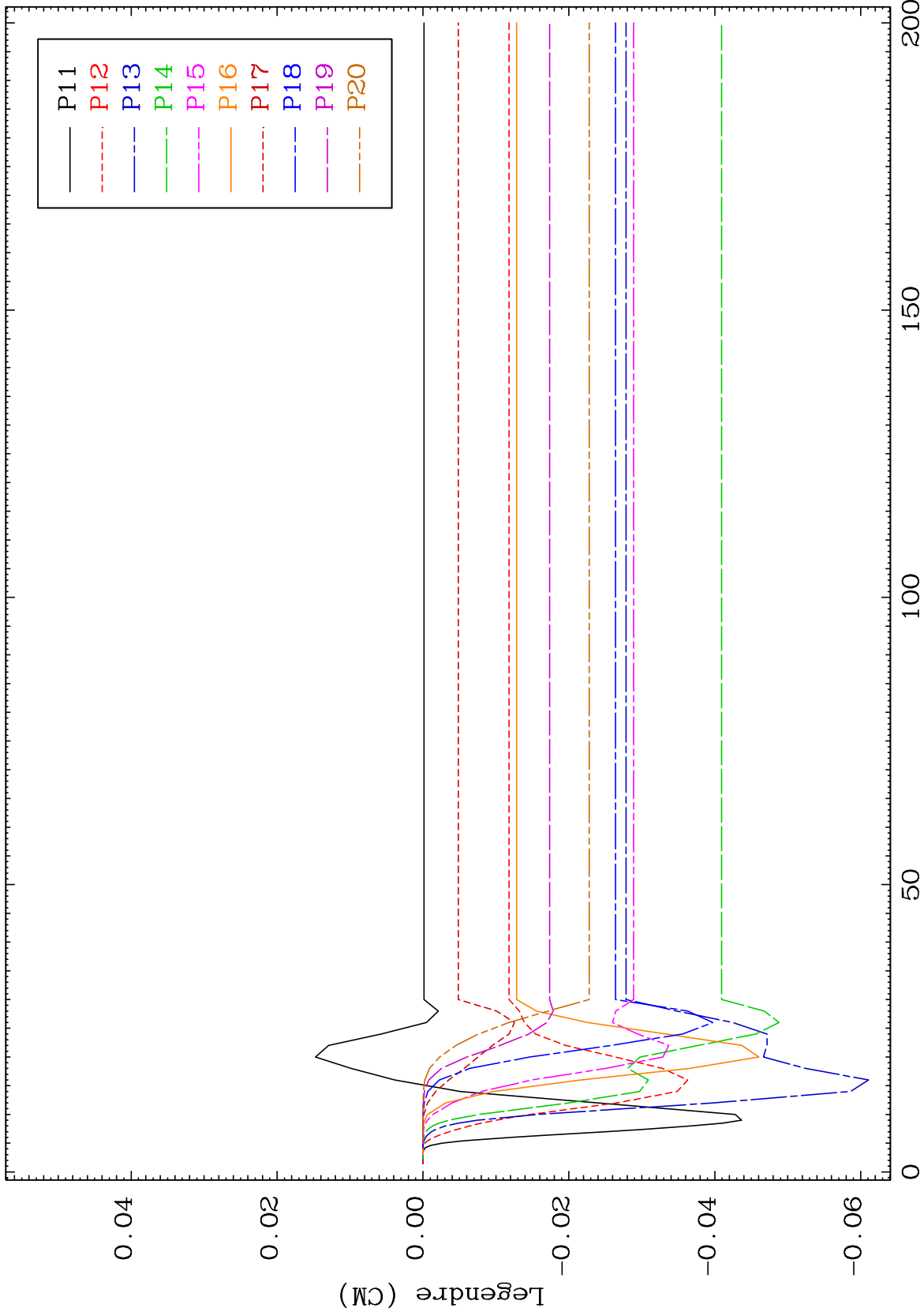




MAT 7107

43.10 keV (n,n') Level
Legendre Coefficients

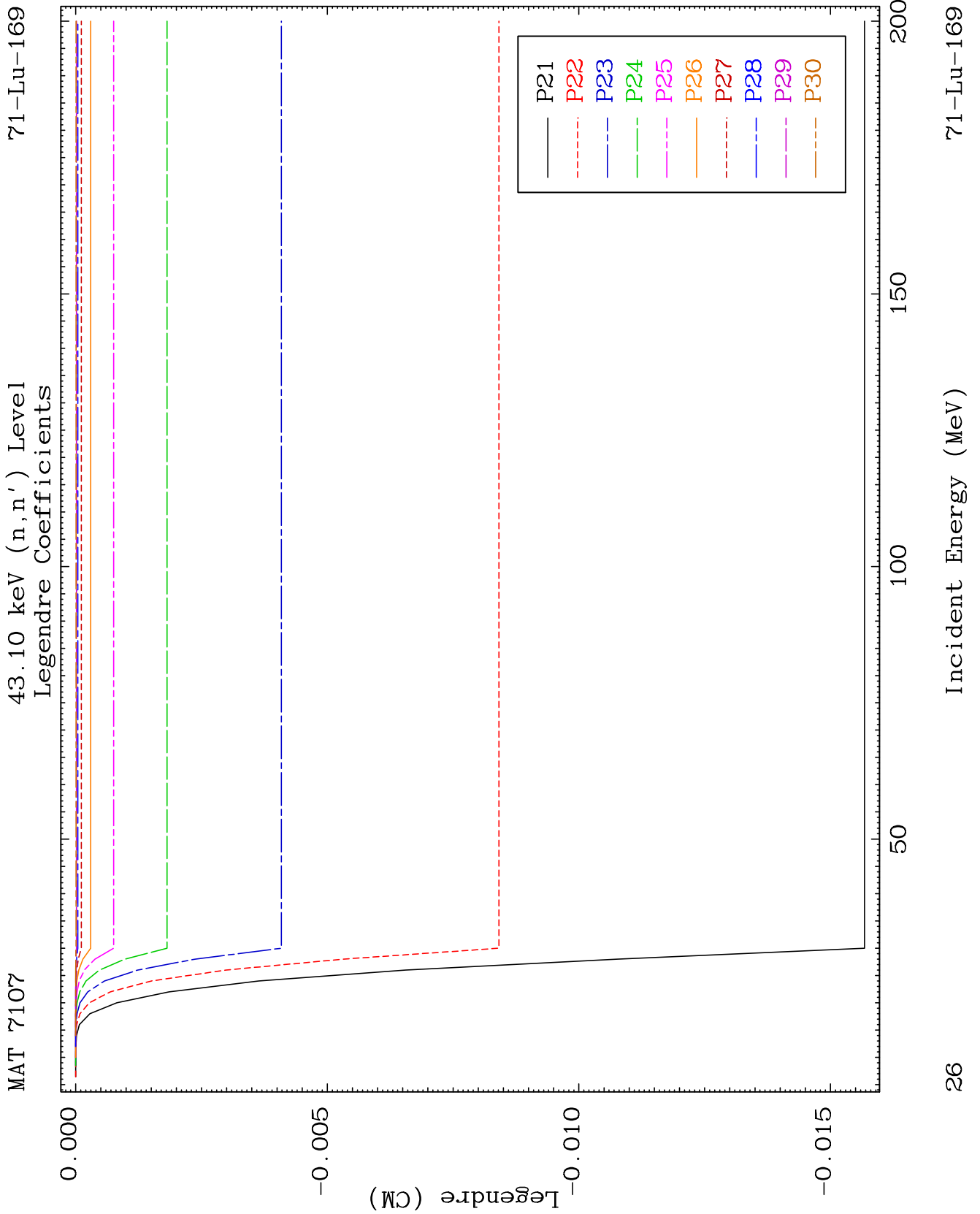
71-Lu-169

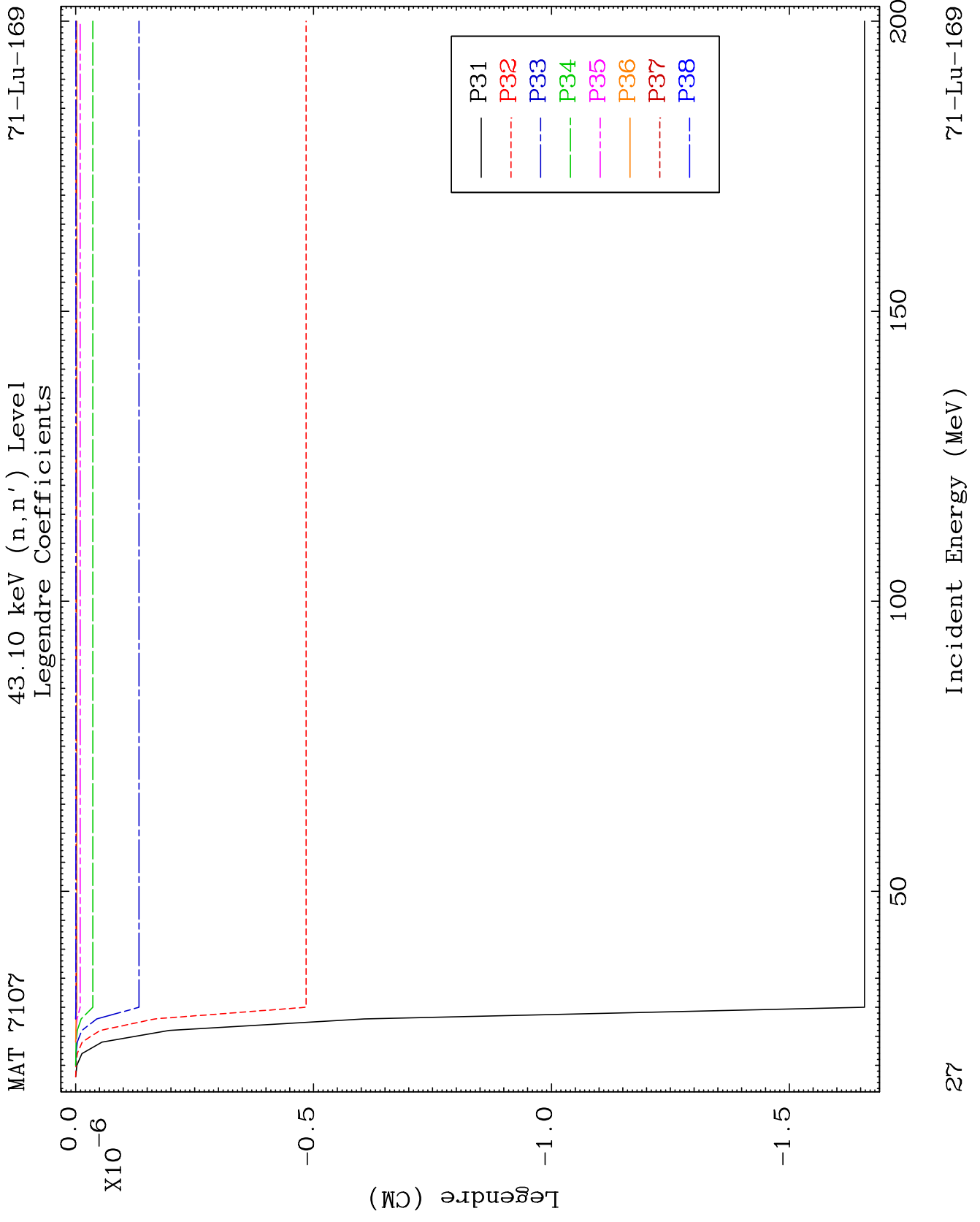


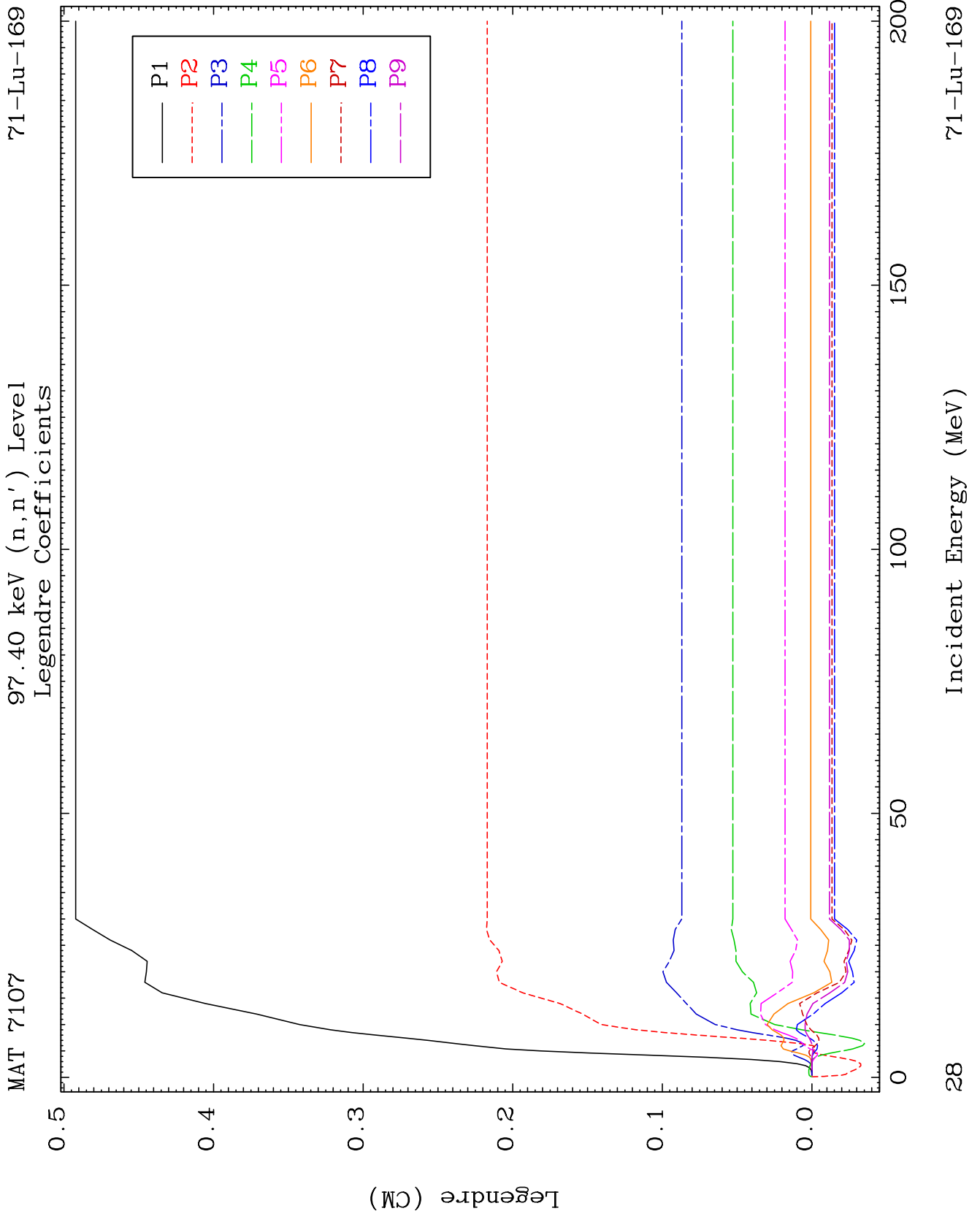
25

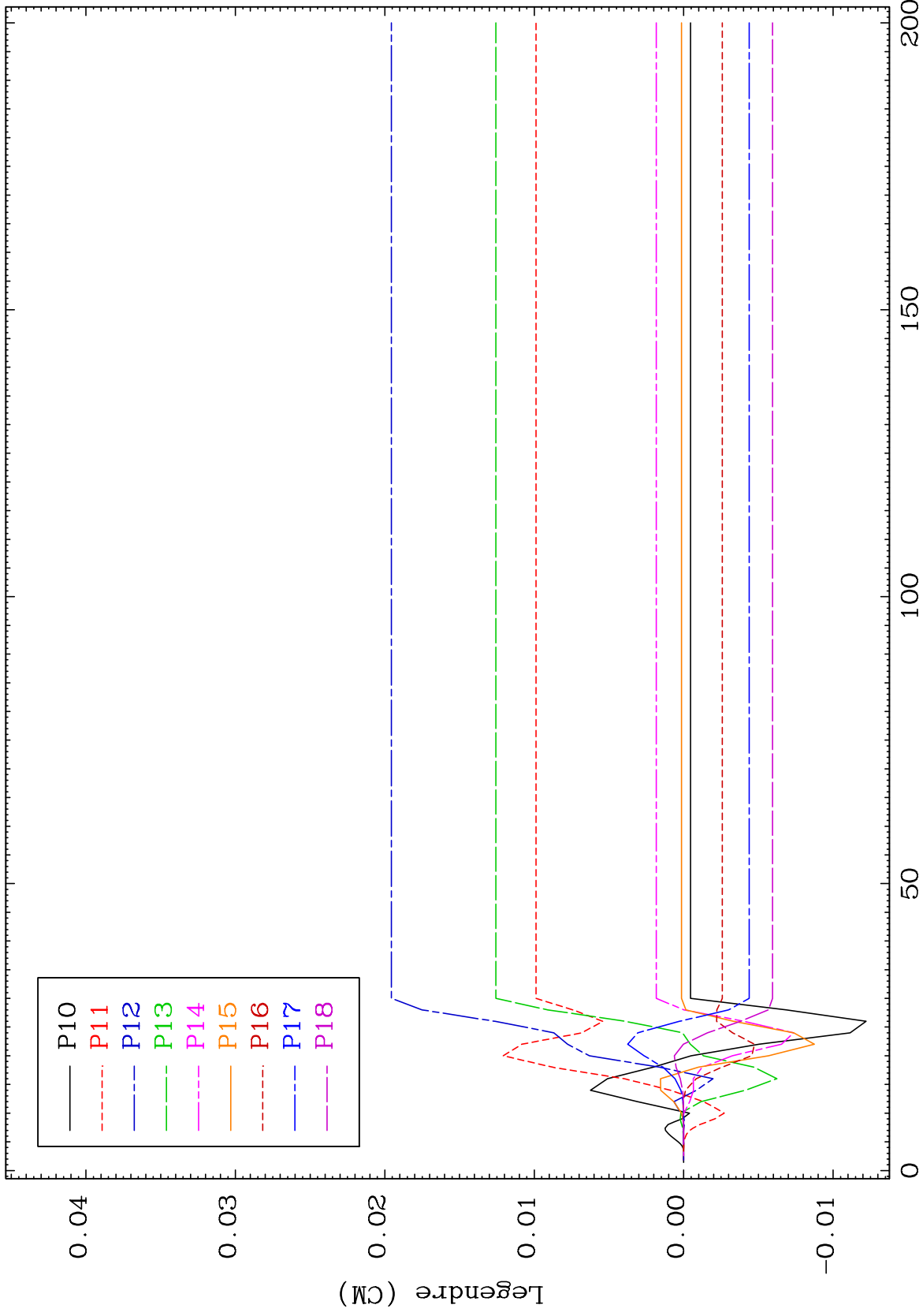
Incident Energy (MeV)

71-Lu-169





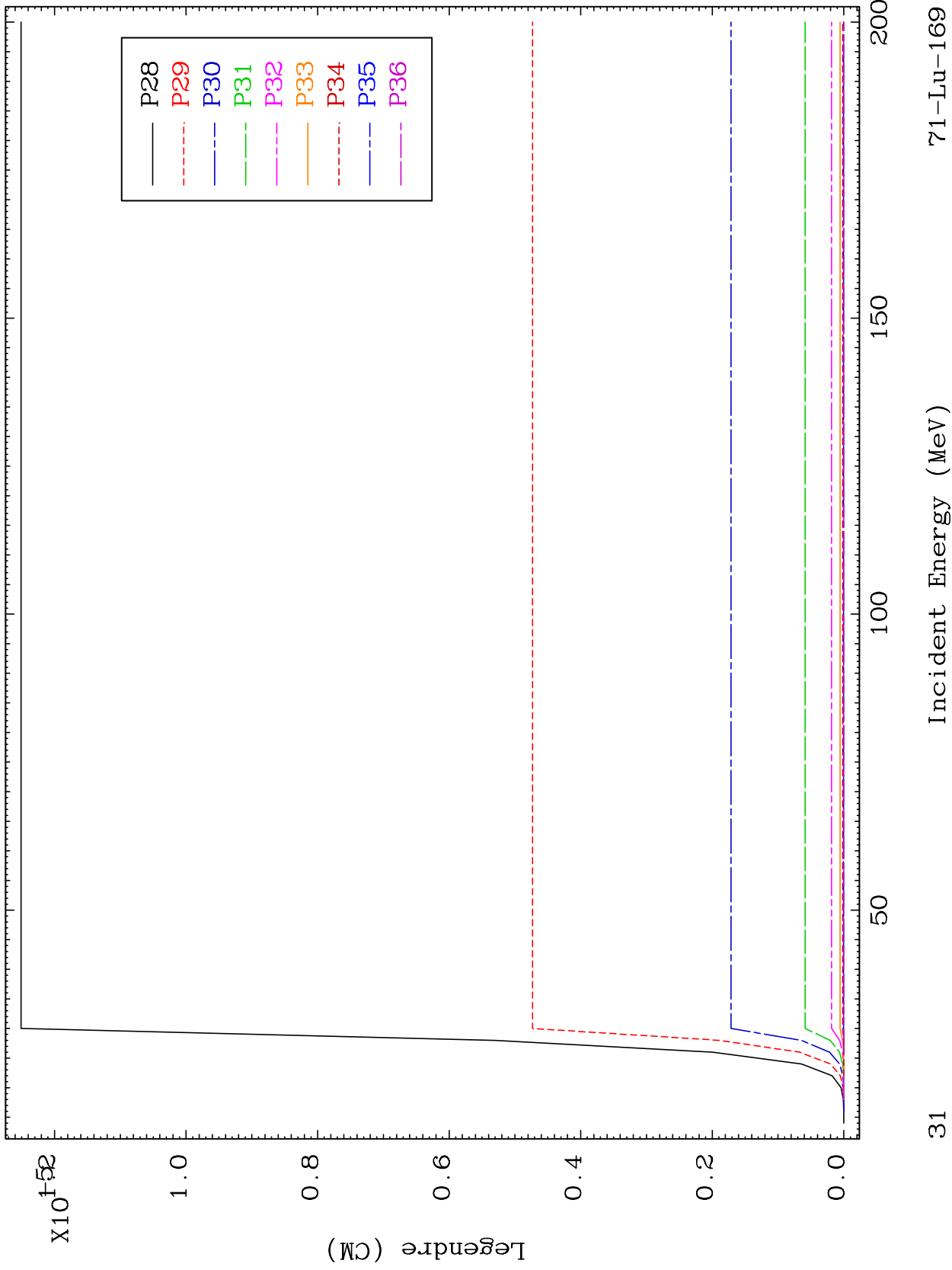




MAT 7107

97.40 keV (n, n') Level
Legendre Coefficients

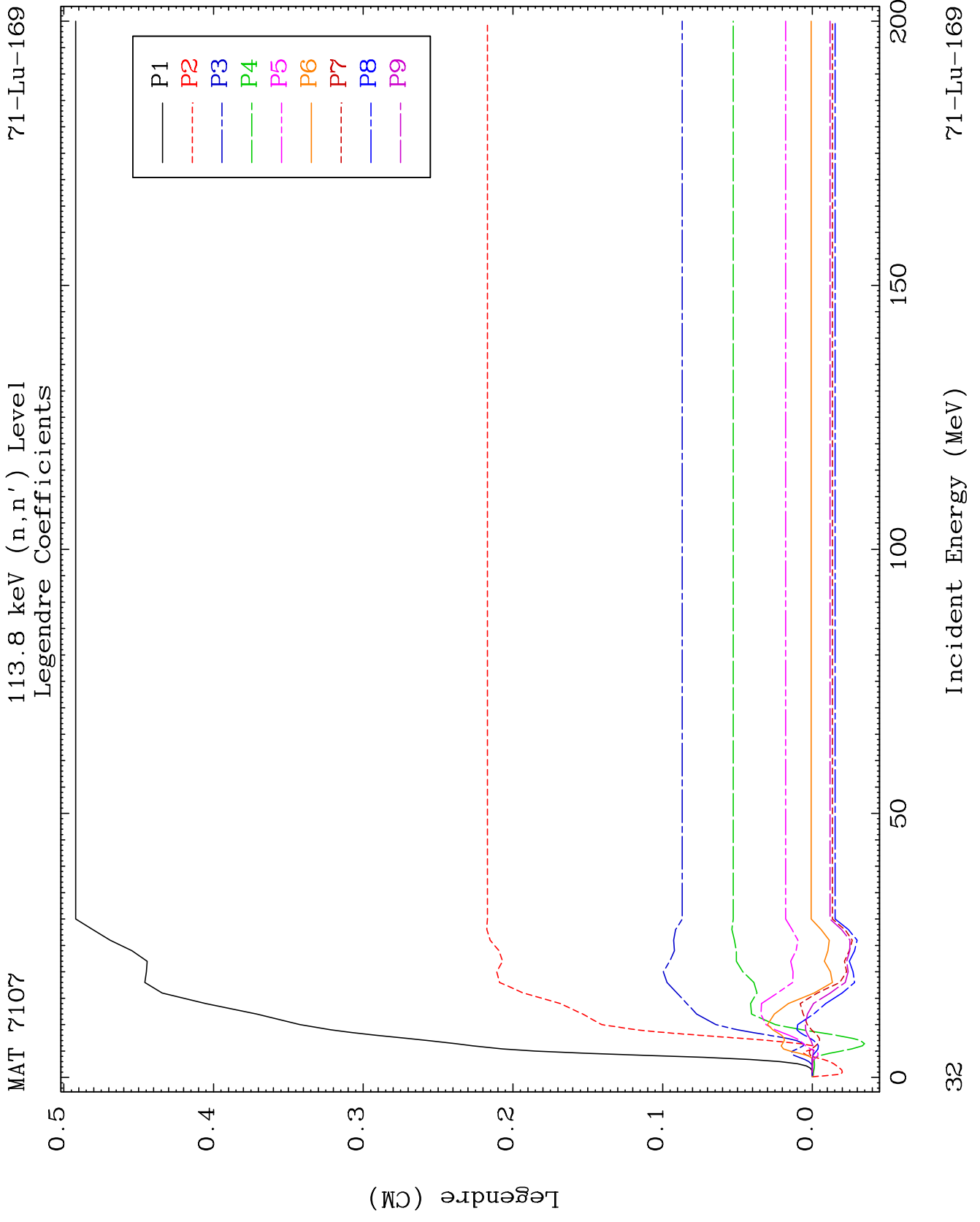
71-Lu-169

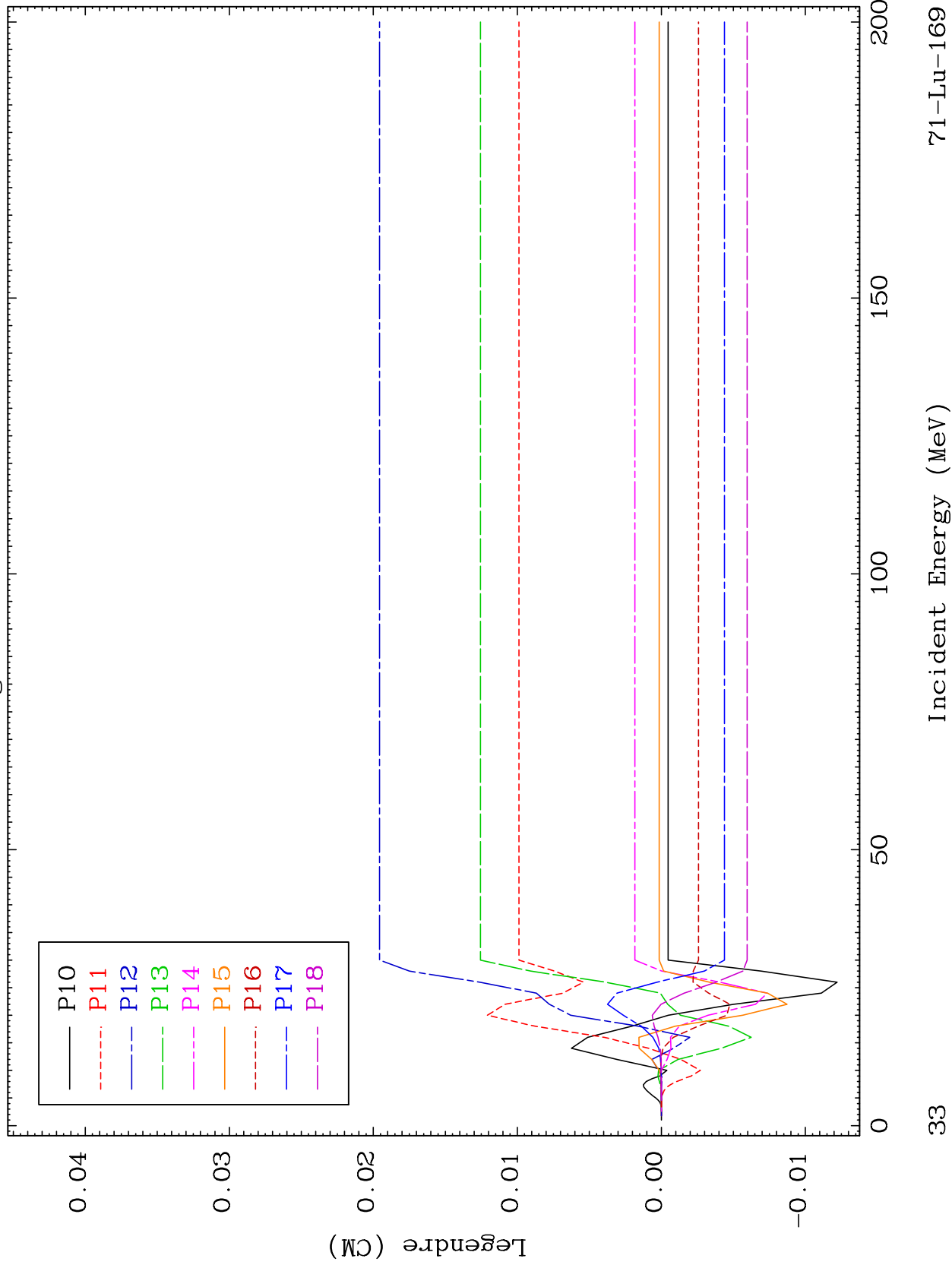


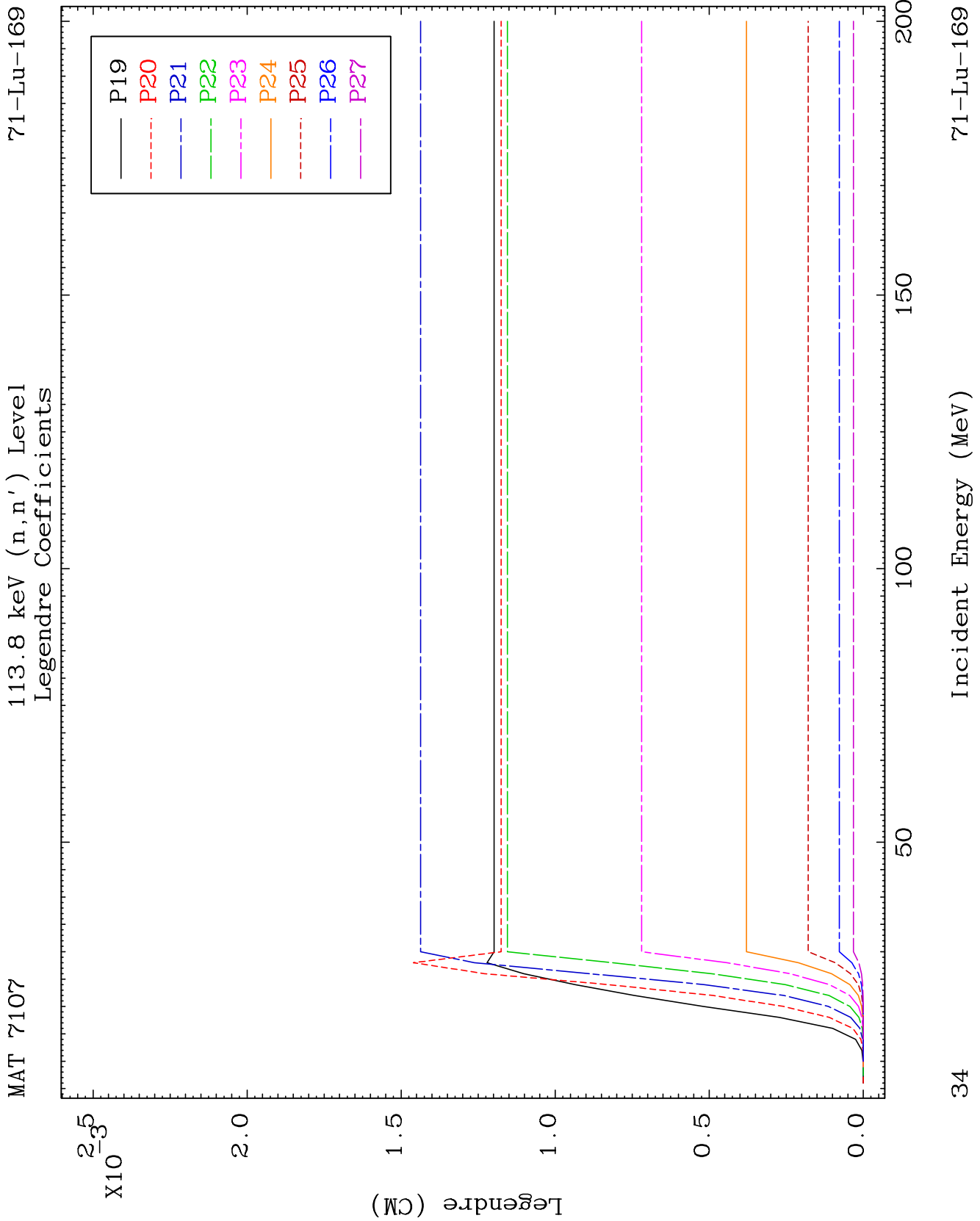
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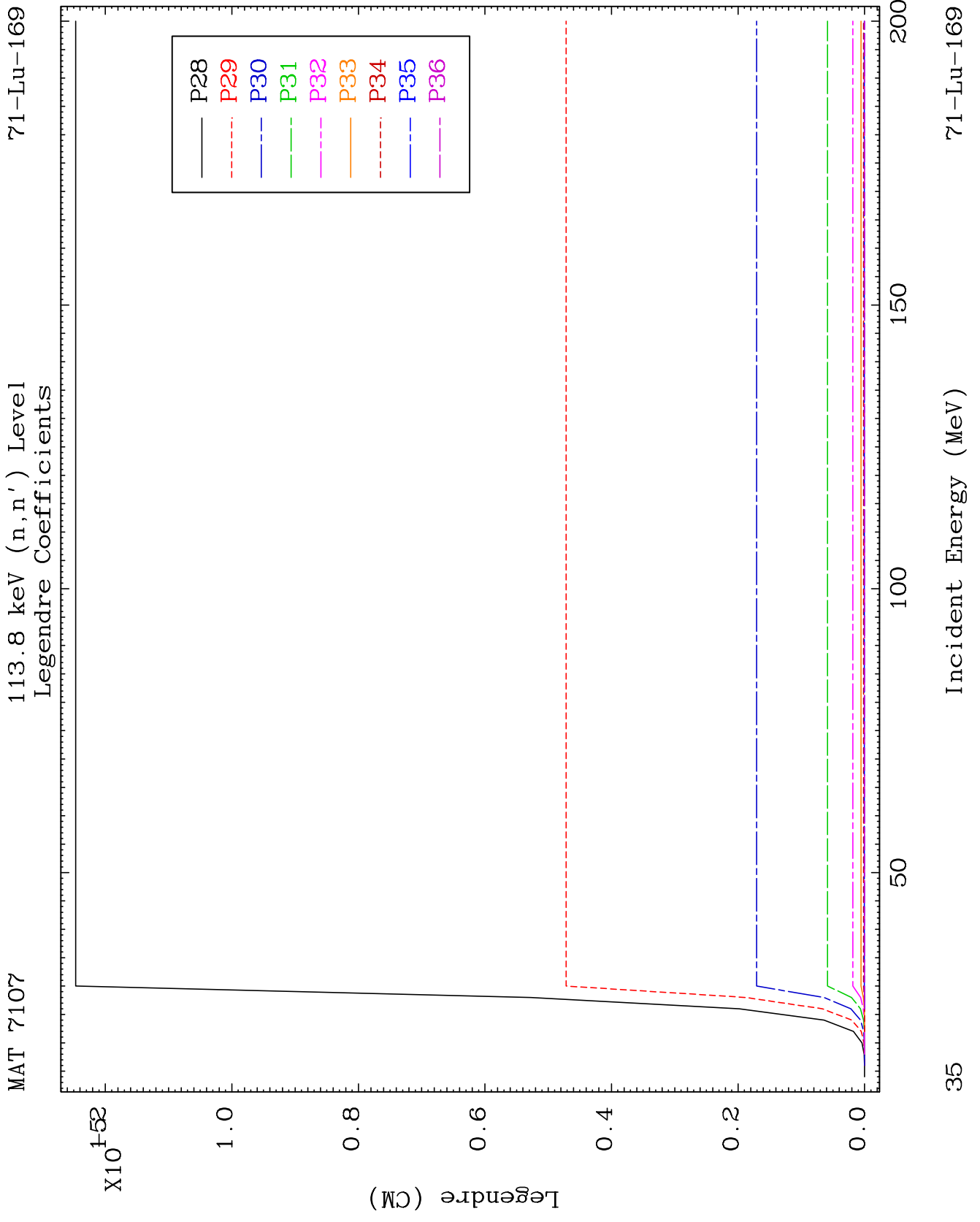
Incident Energy (MeV)

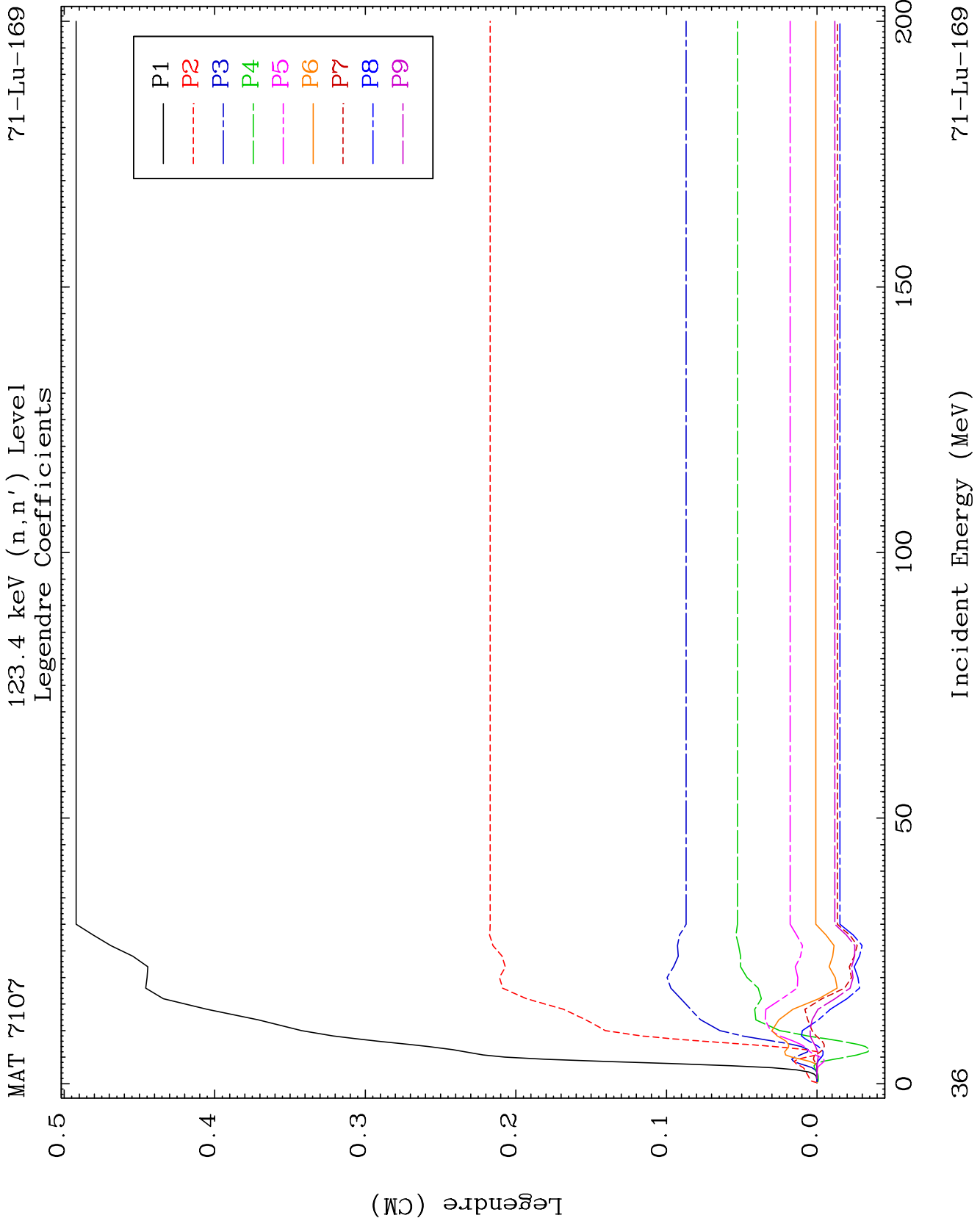
71-Lu-169

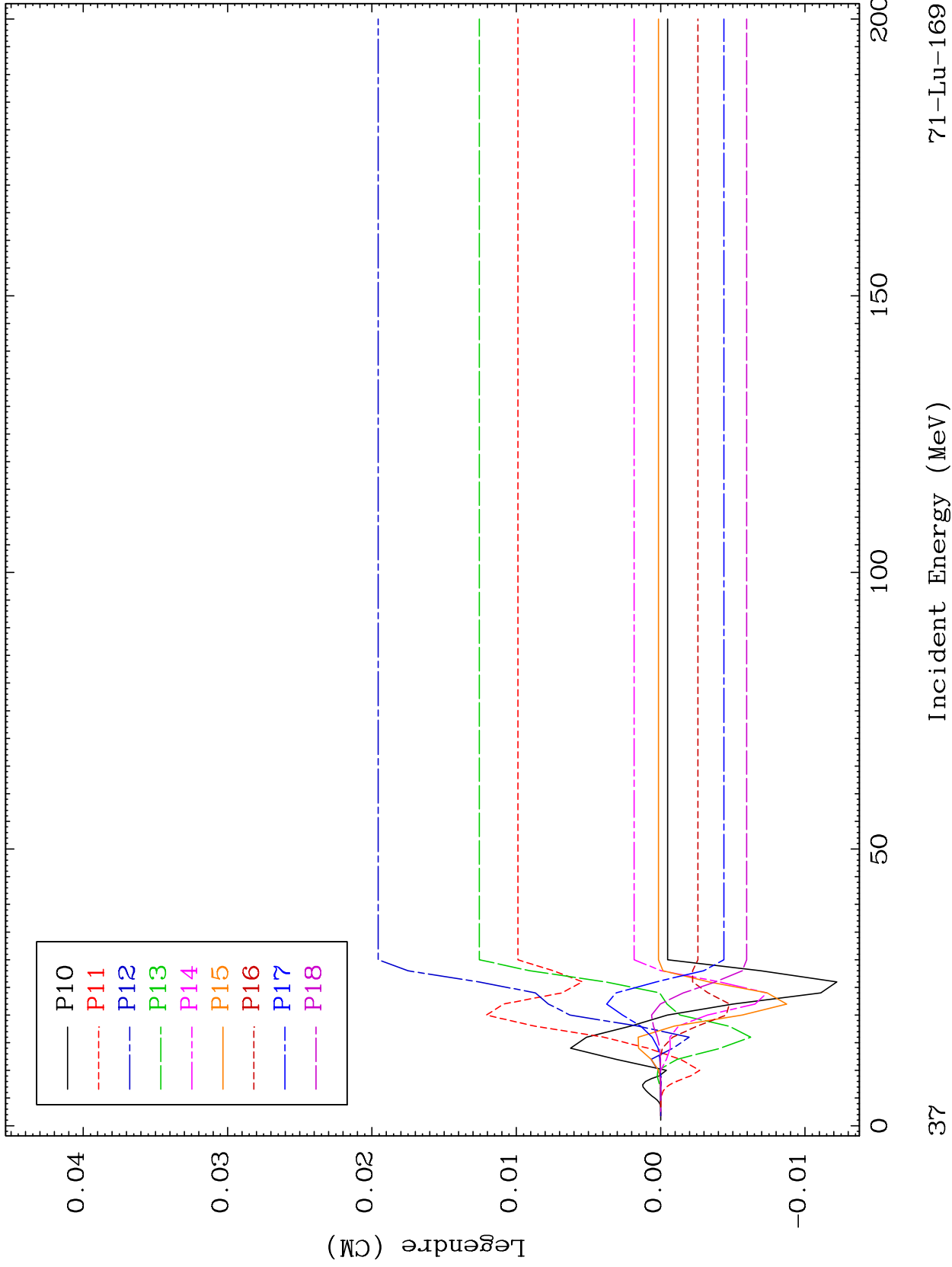


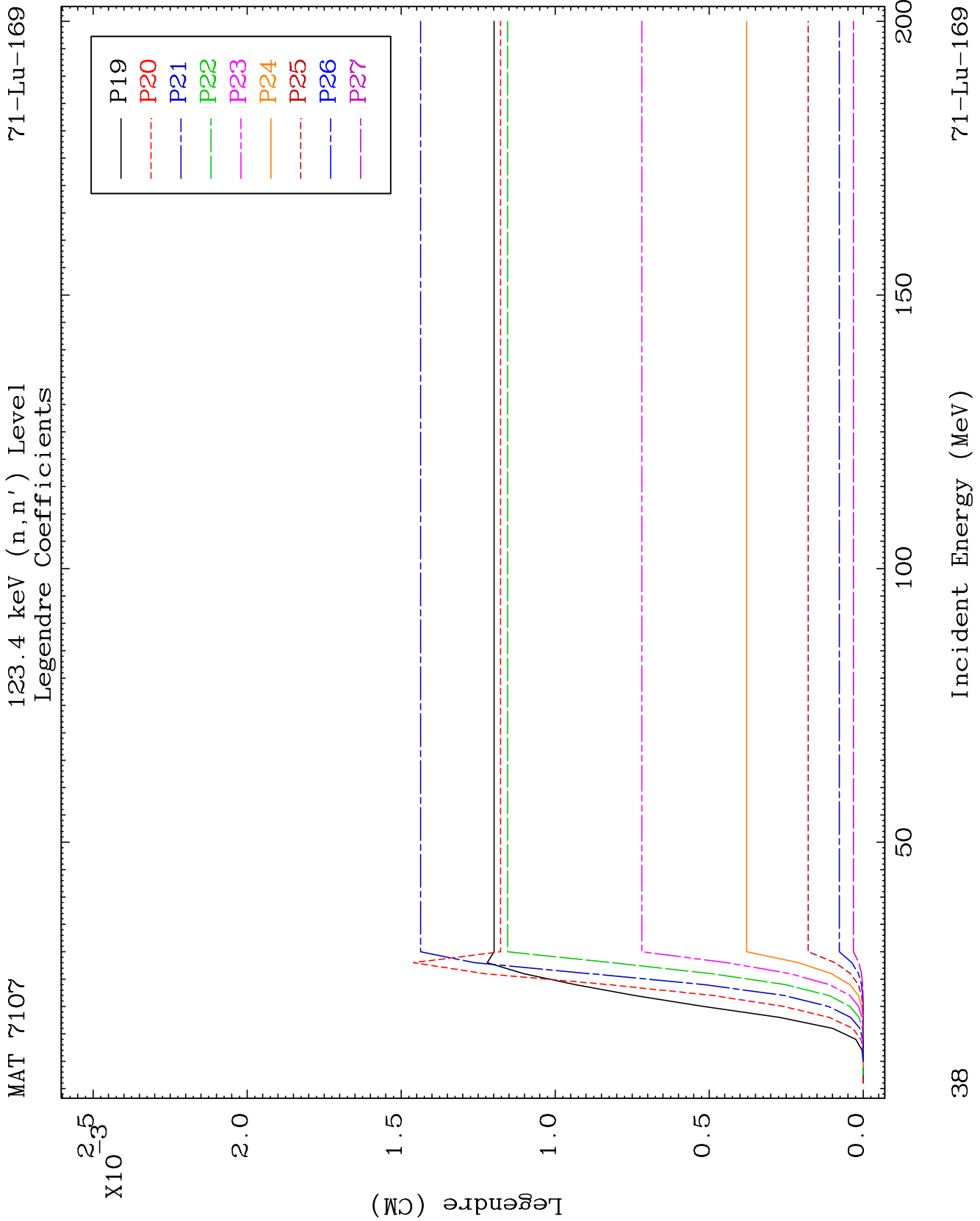








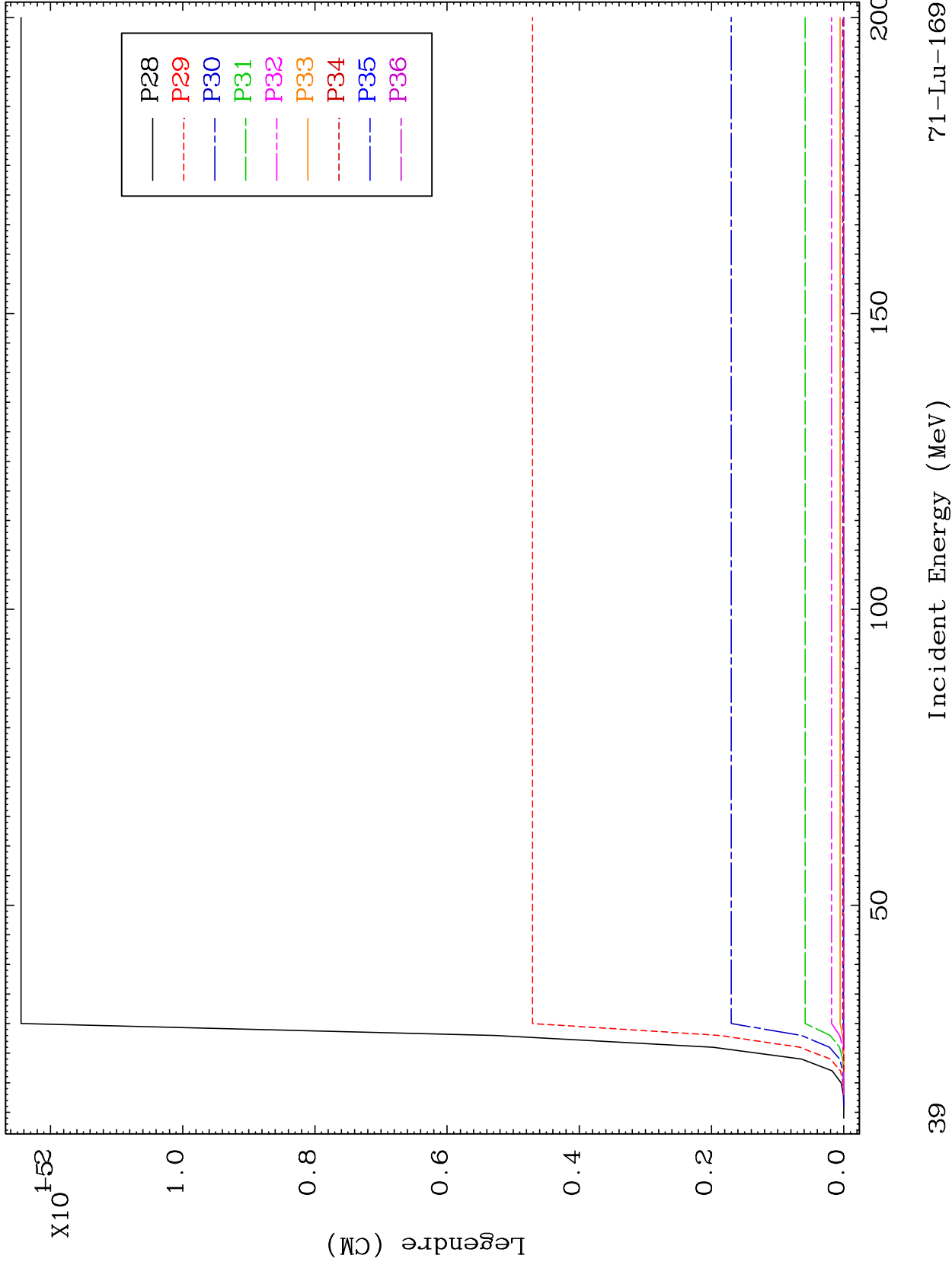




MAT 7107

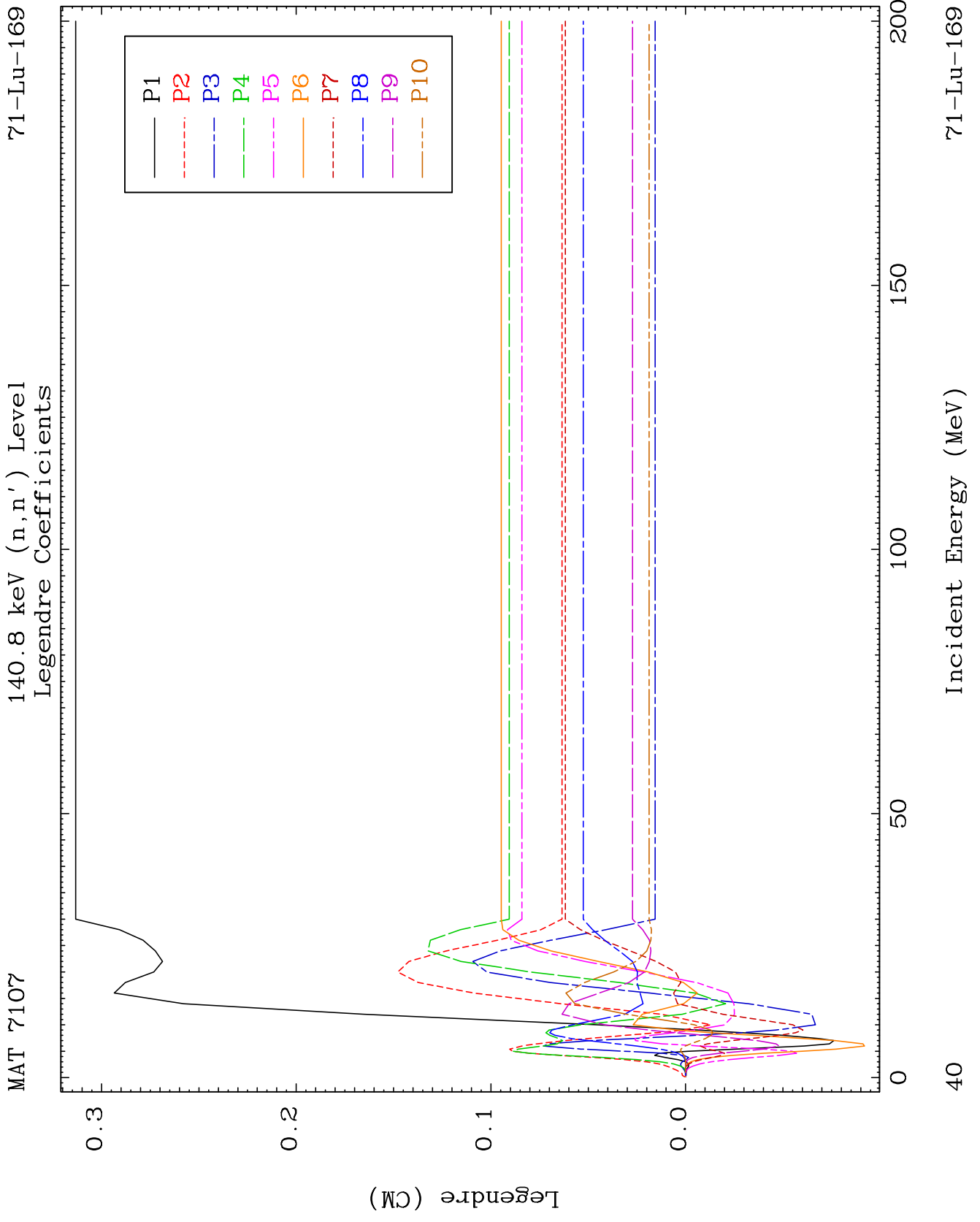
123.4 keV (n,n') Level
Legendre Coefficients

71-Lu-169



39

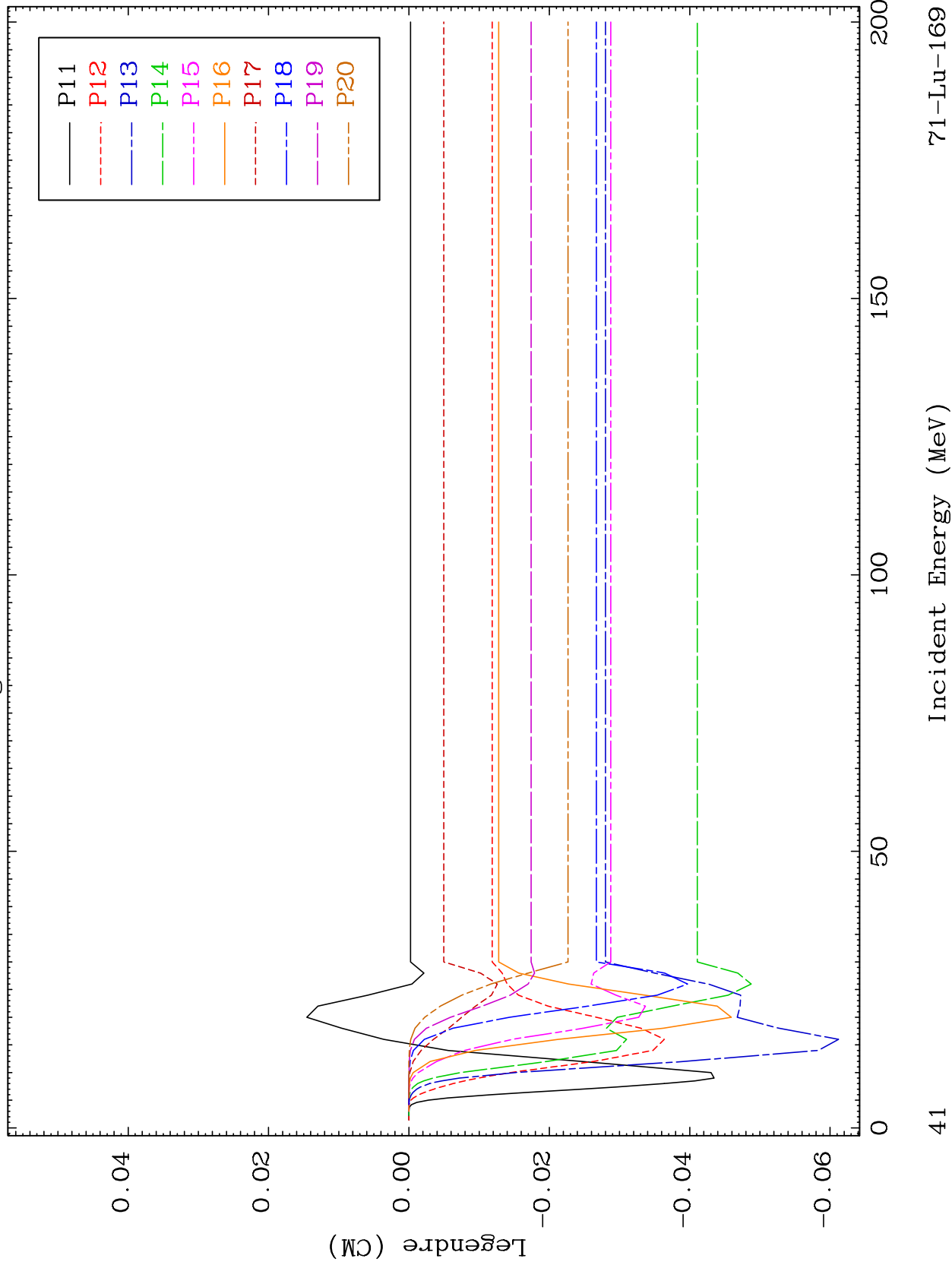
71-Lu-169



MAT 7107

140.8 keV (n,n') Level
Legendre Coefficients

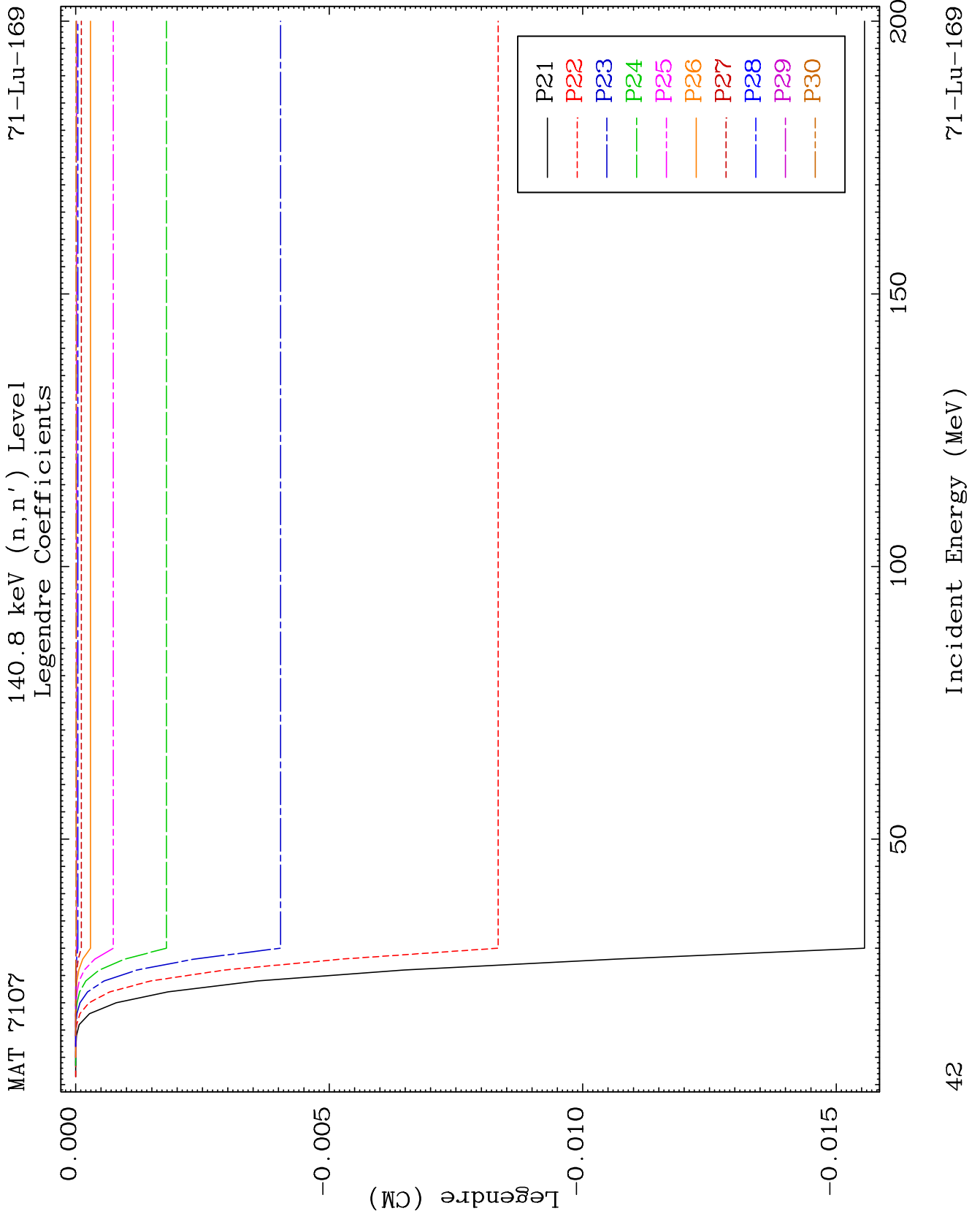
71-Lu-169

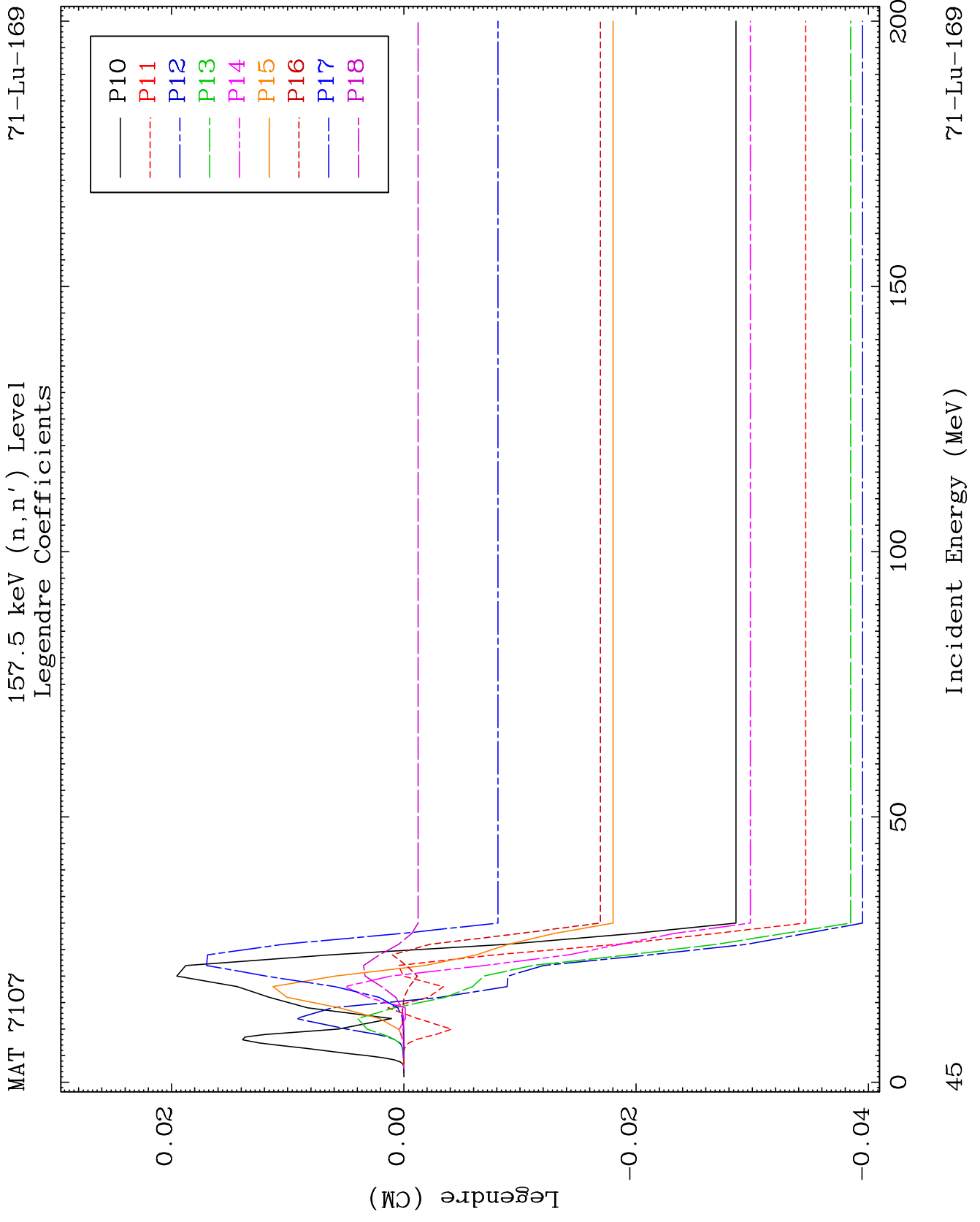


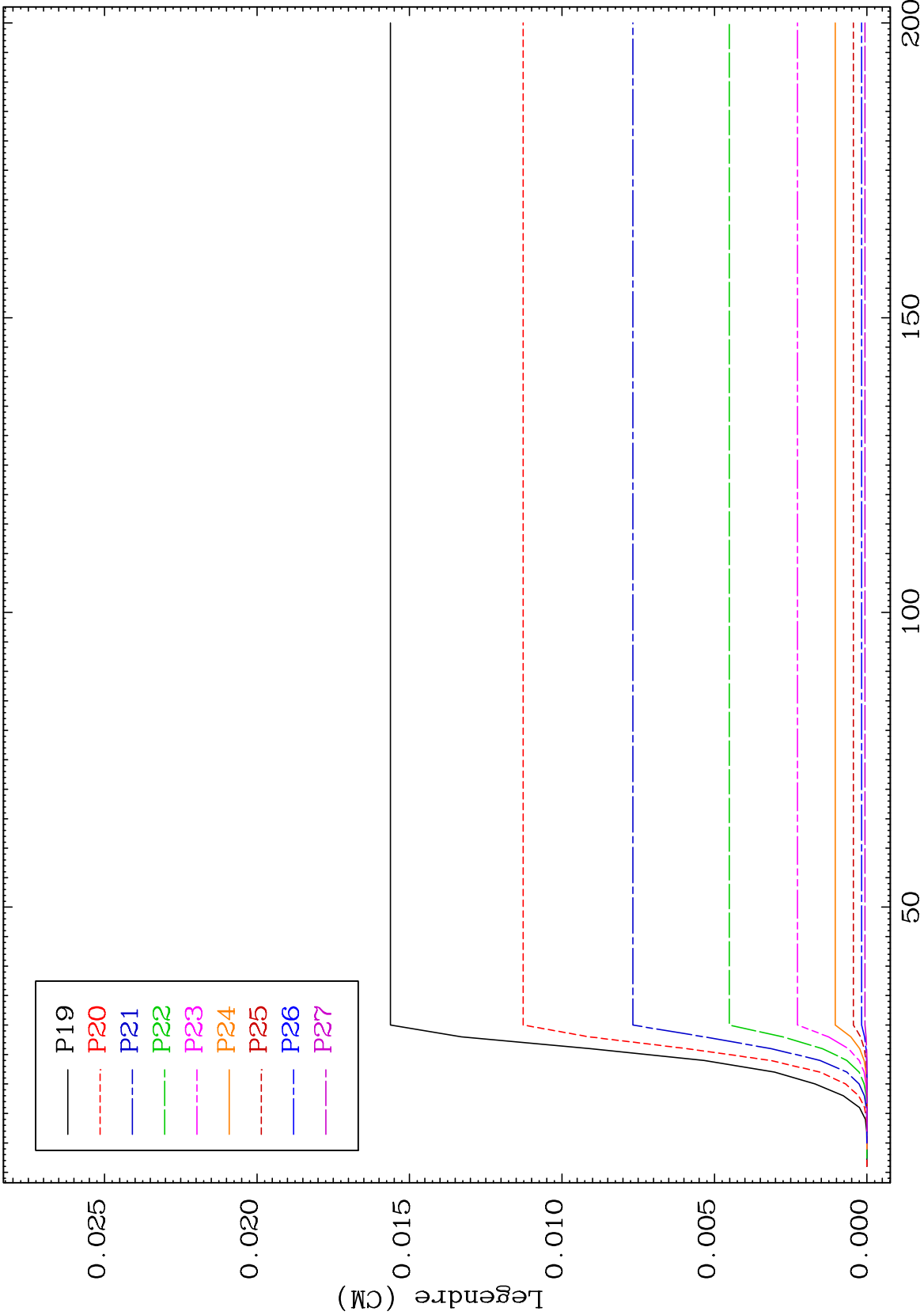
71-Lu-169

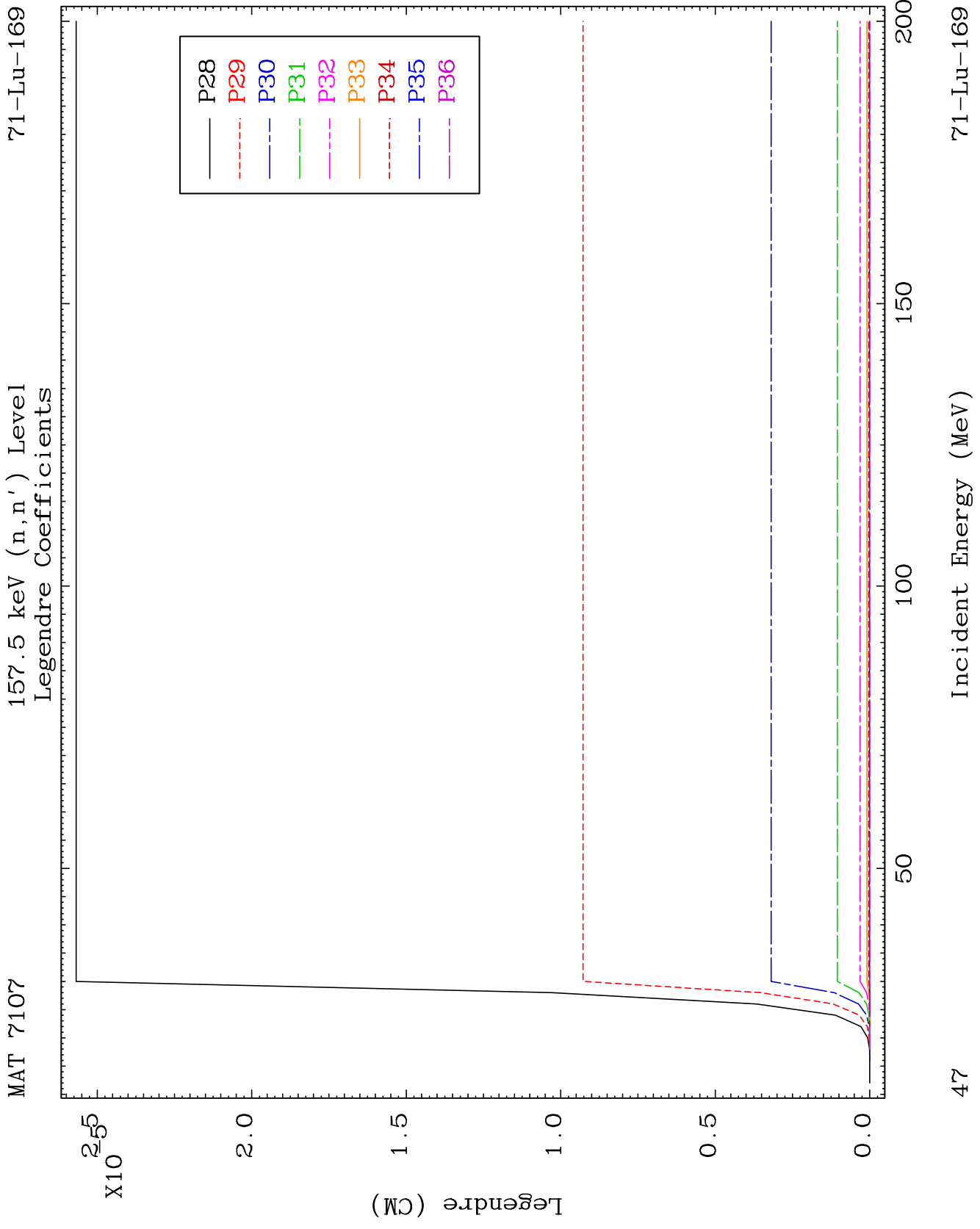
Incident Energy (MeV)

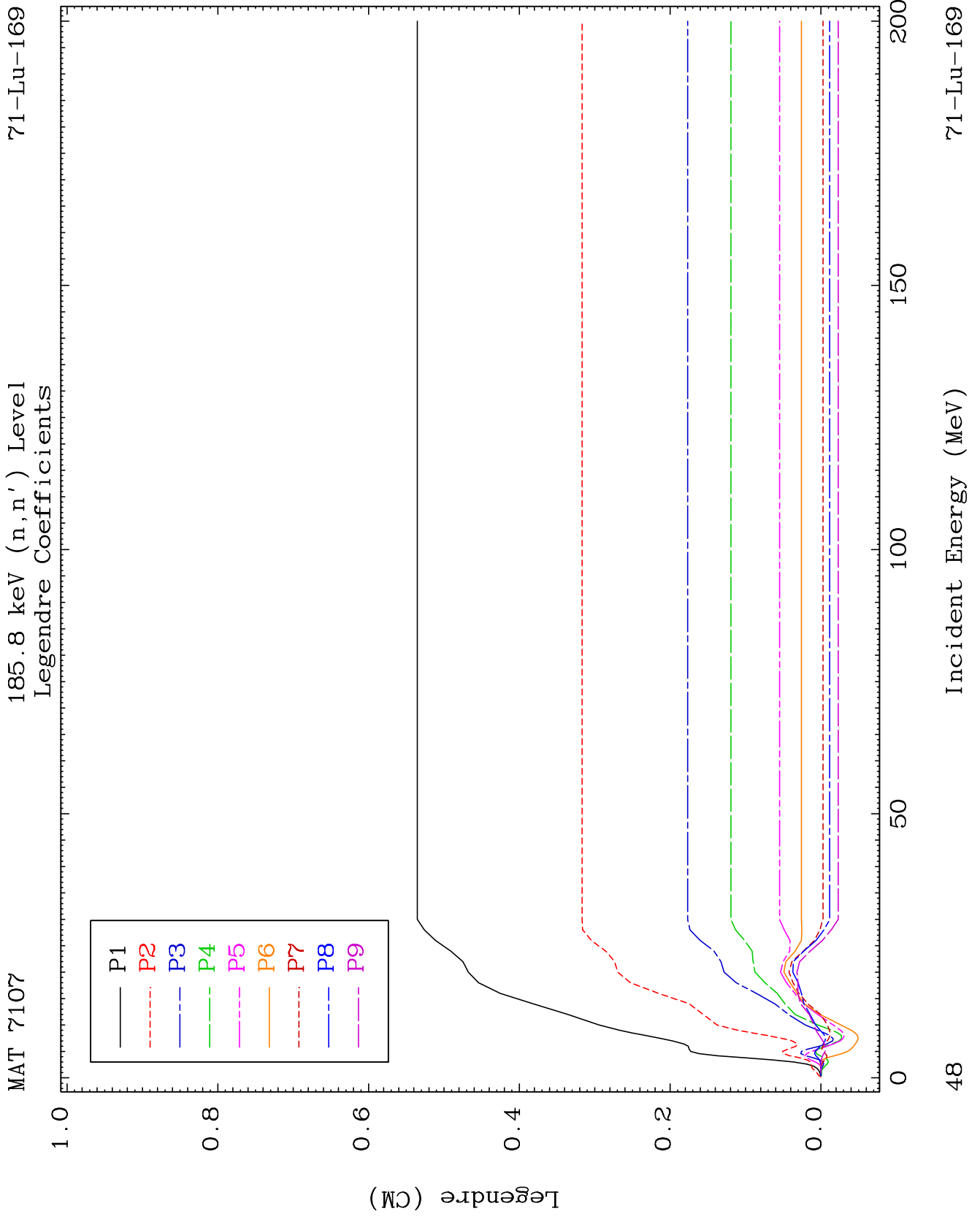
41







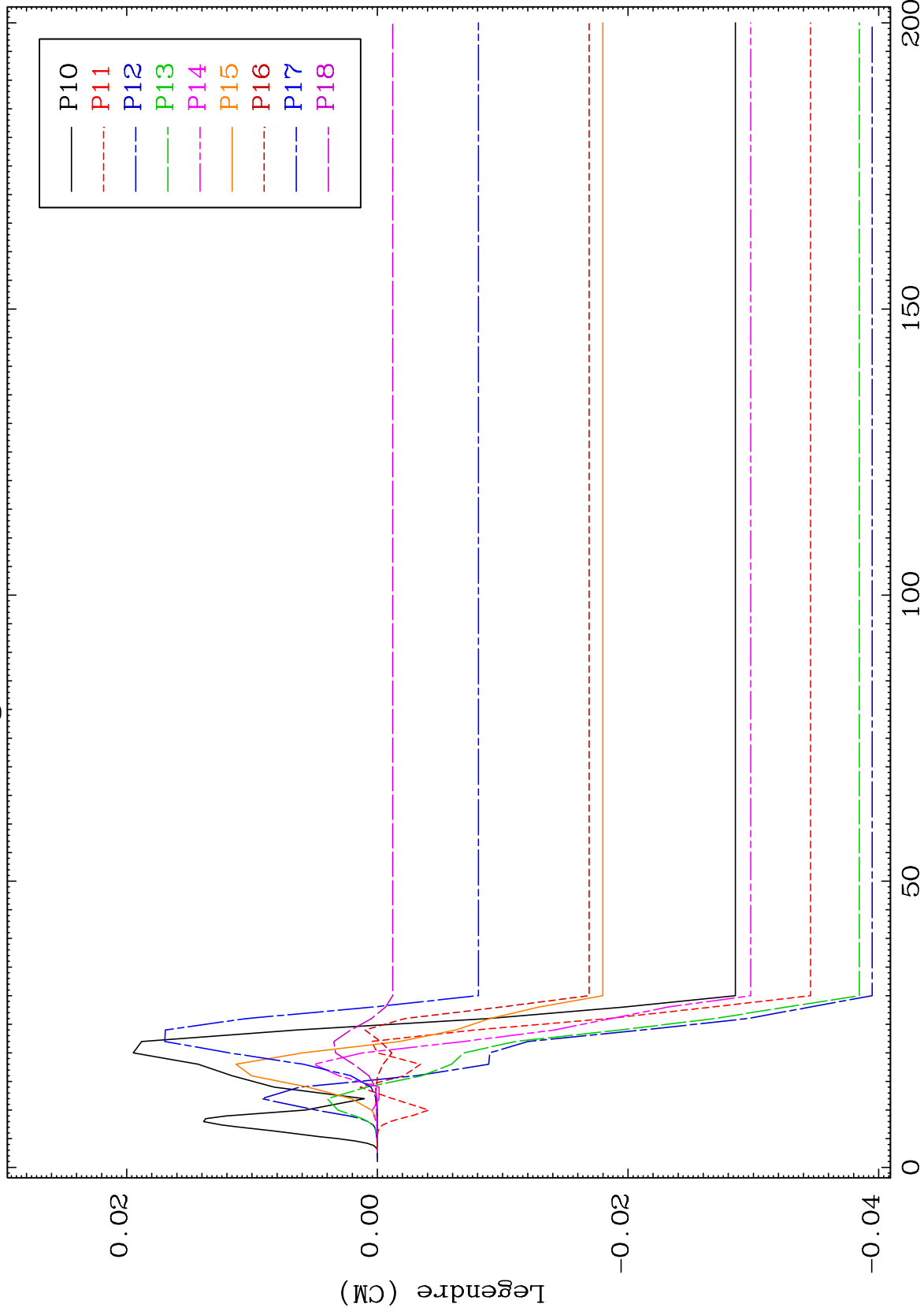




MAT 7107

185.8 keV (n,n') Level
Legendre Coefficients

71-Lu-169



49

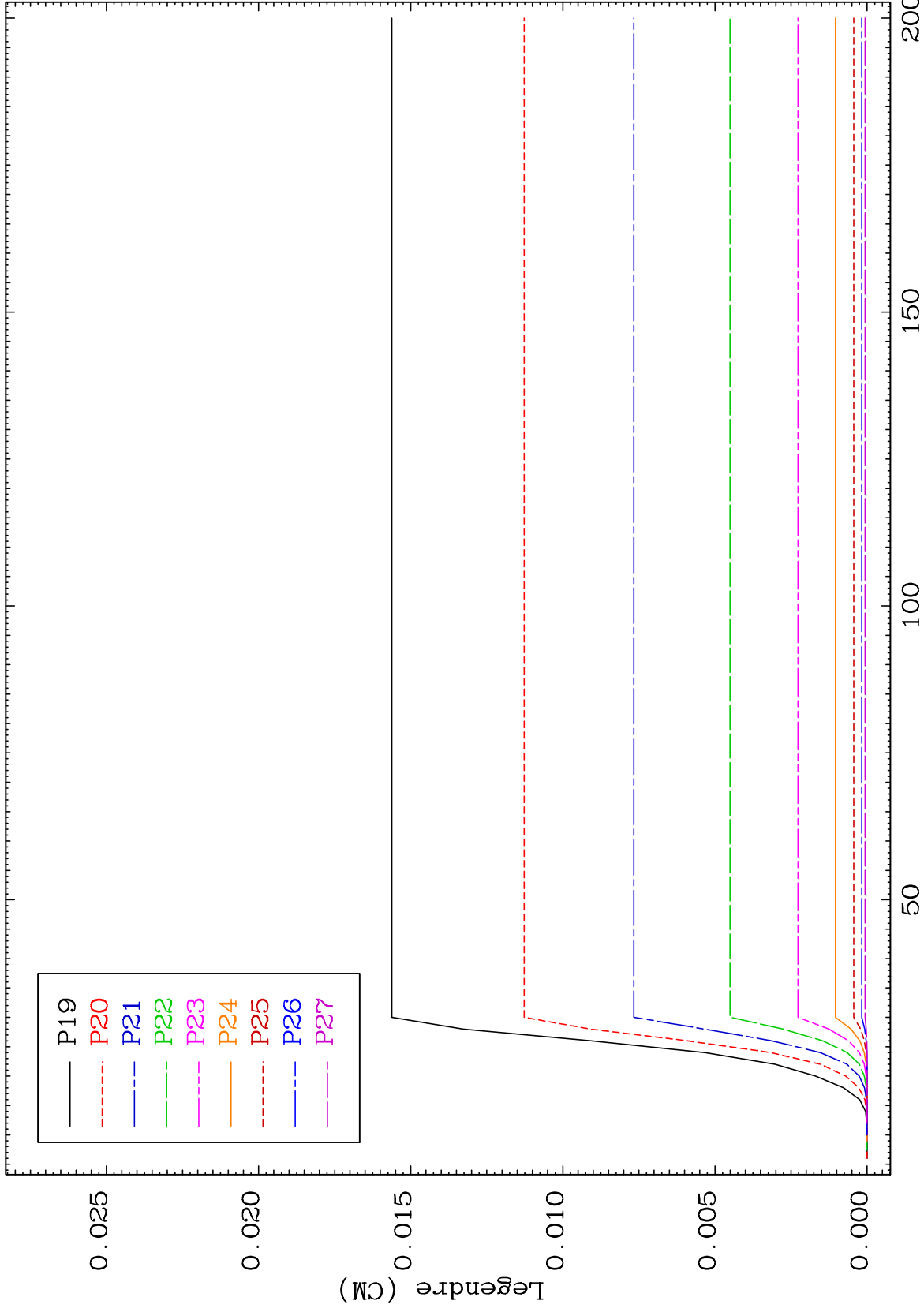
Incident Energy (MeV)

71-Lu-169

MAT 7107

185.8 keV (n, n') Level
Legendre Coefficients

71-Lu-169



71-Lu-169

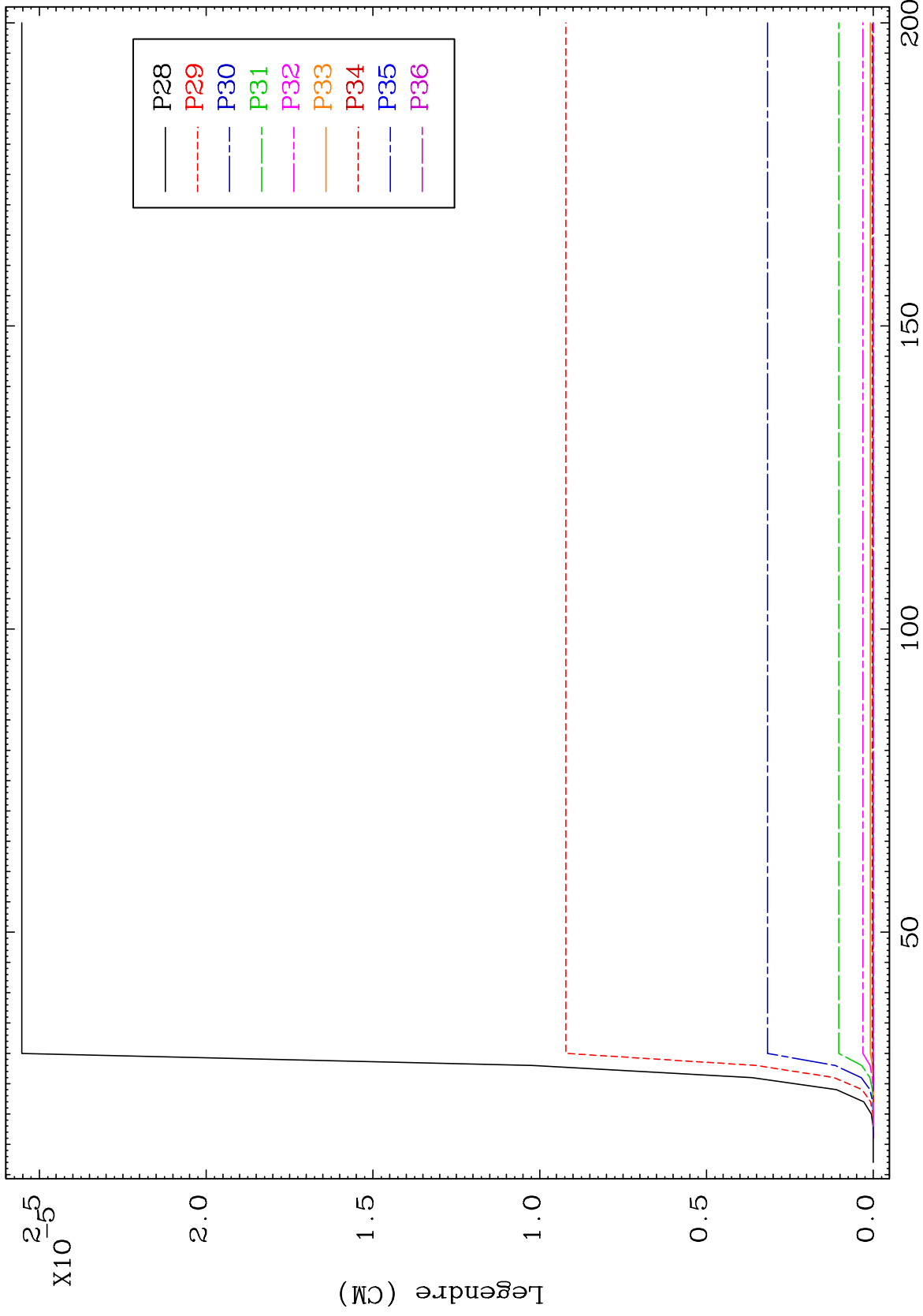
Incident Energy (MeV)

50

MAT 7107

185.8 keV (n, n') Level
Legendre Coefficients

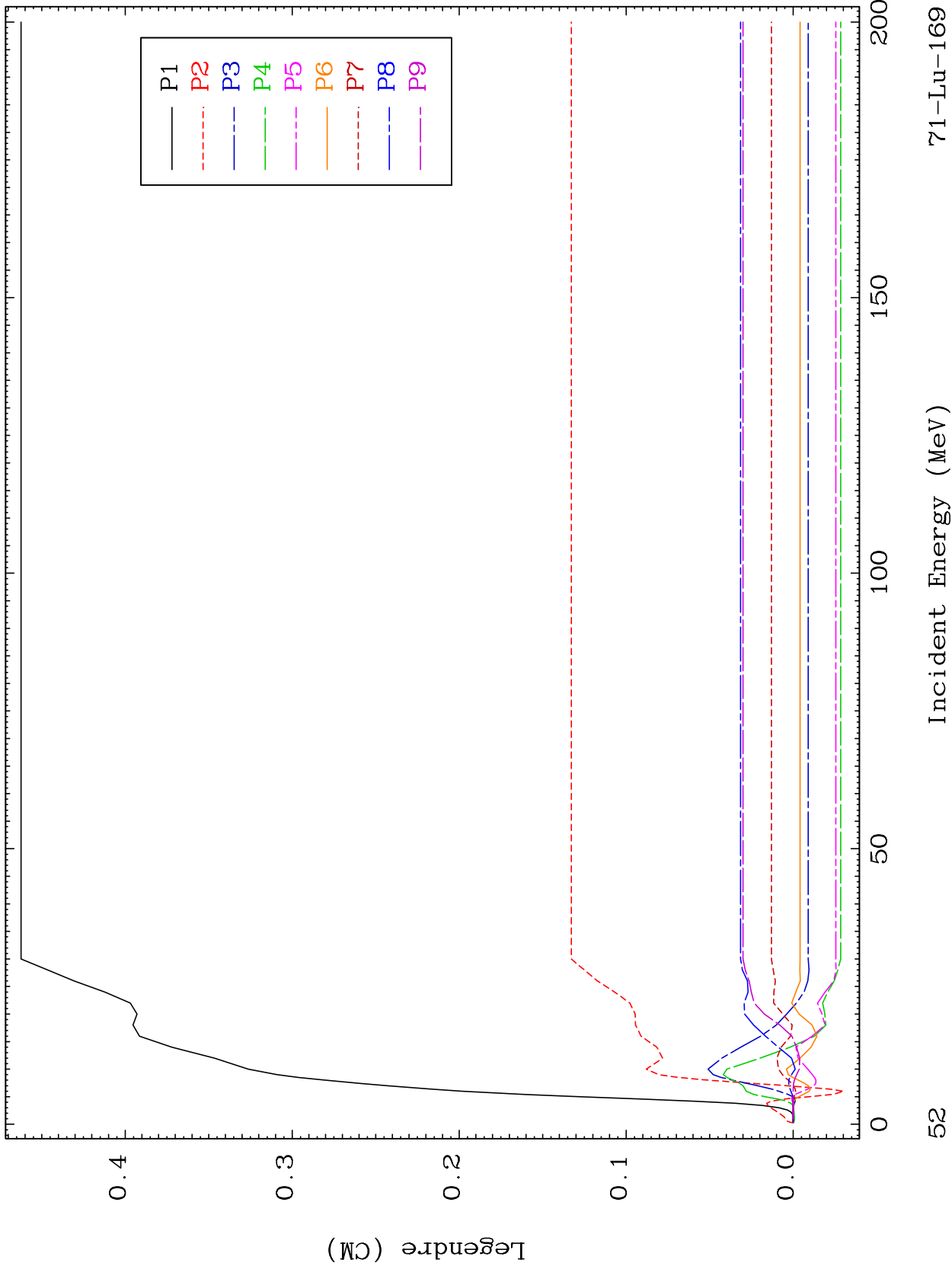
71-Lu-169



51

Incident Energy (MeV)

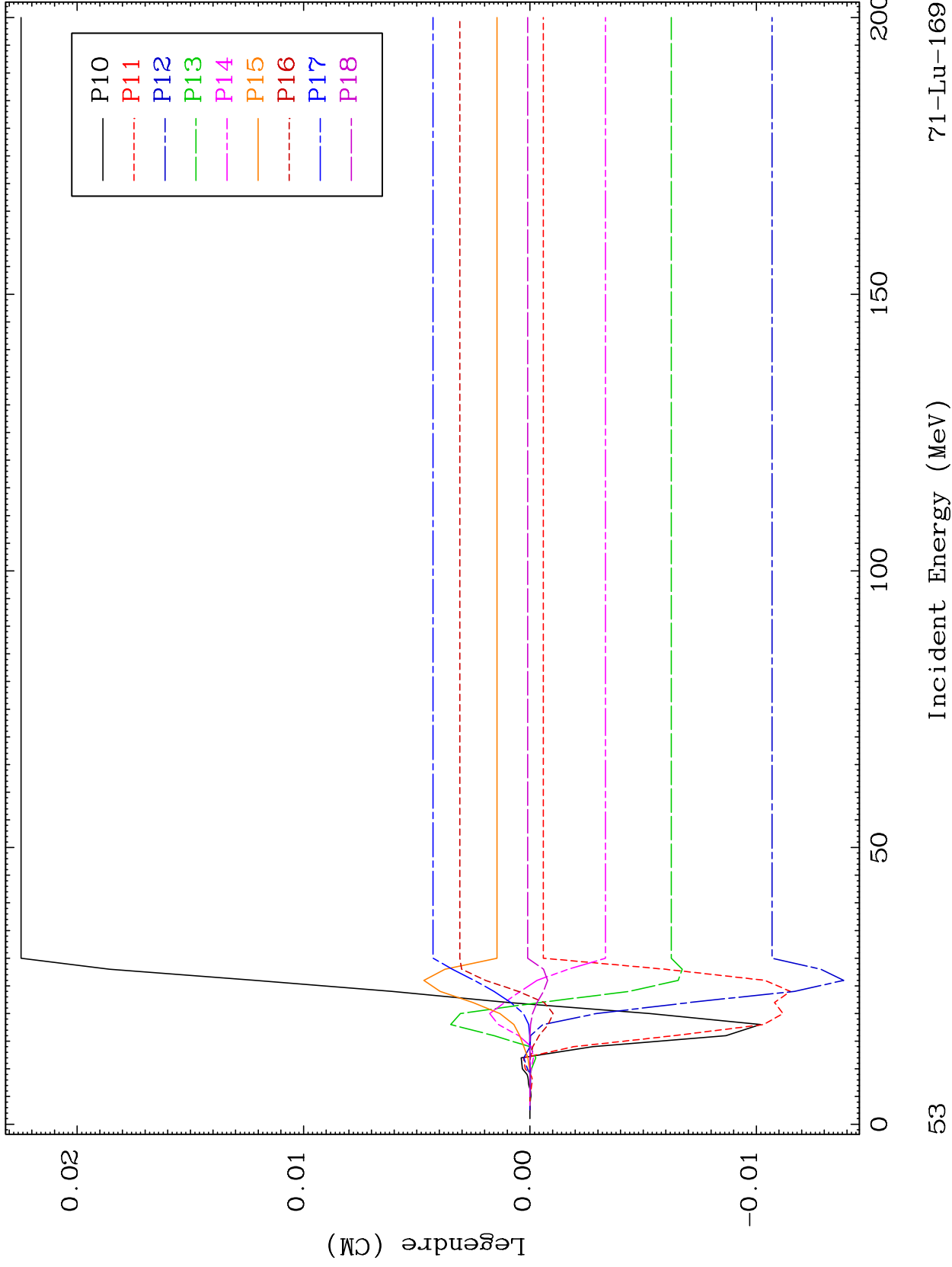
71-Lu-169



MAT 7107

225.1 keV (n,n') Level
Legendre Coefficients

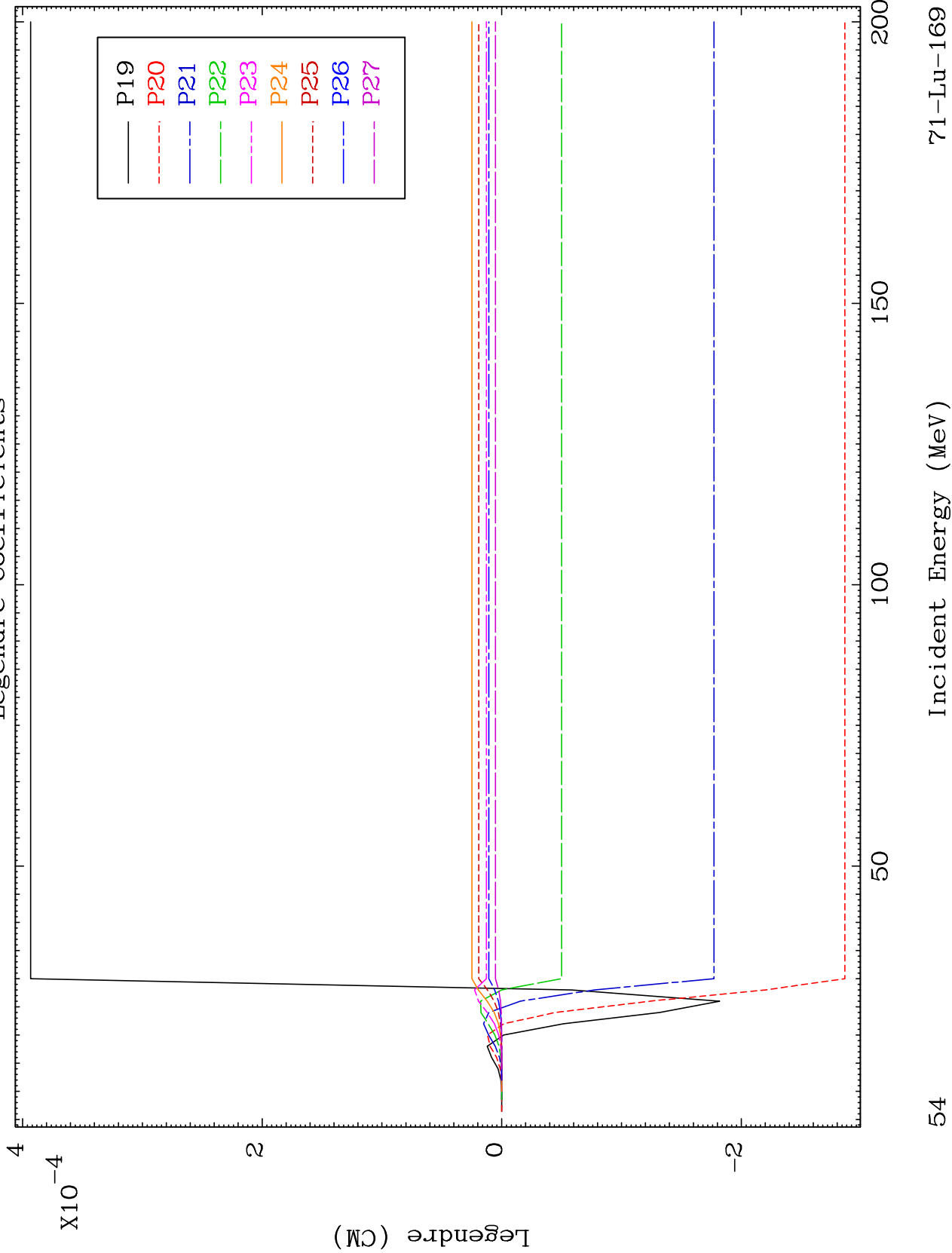
71-Lu-169



53

Incident Energy (MeV)

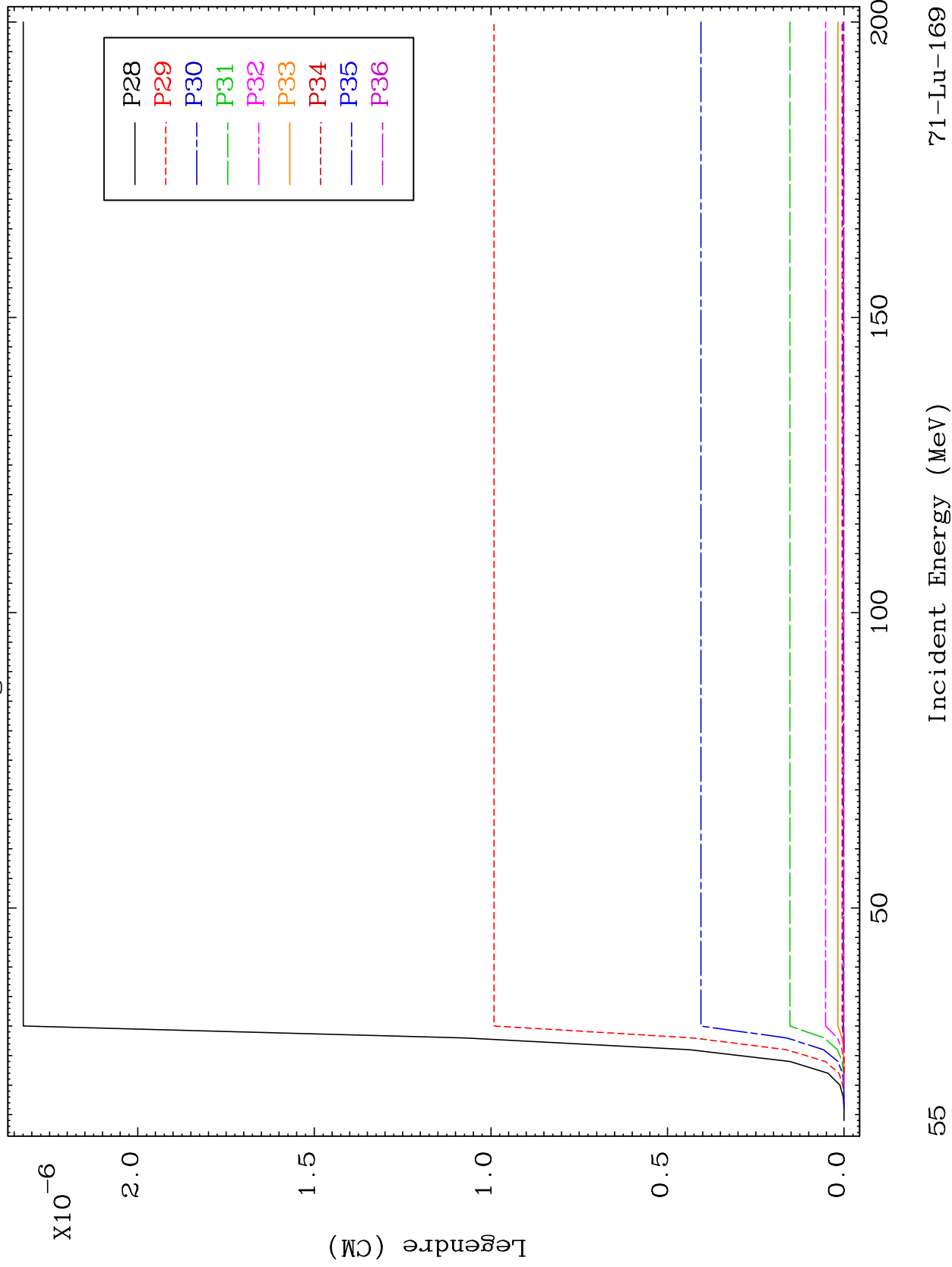
71-Lu-169



MAT 7107

225.1 keV (n,n') Level
Legendre Coefficients

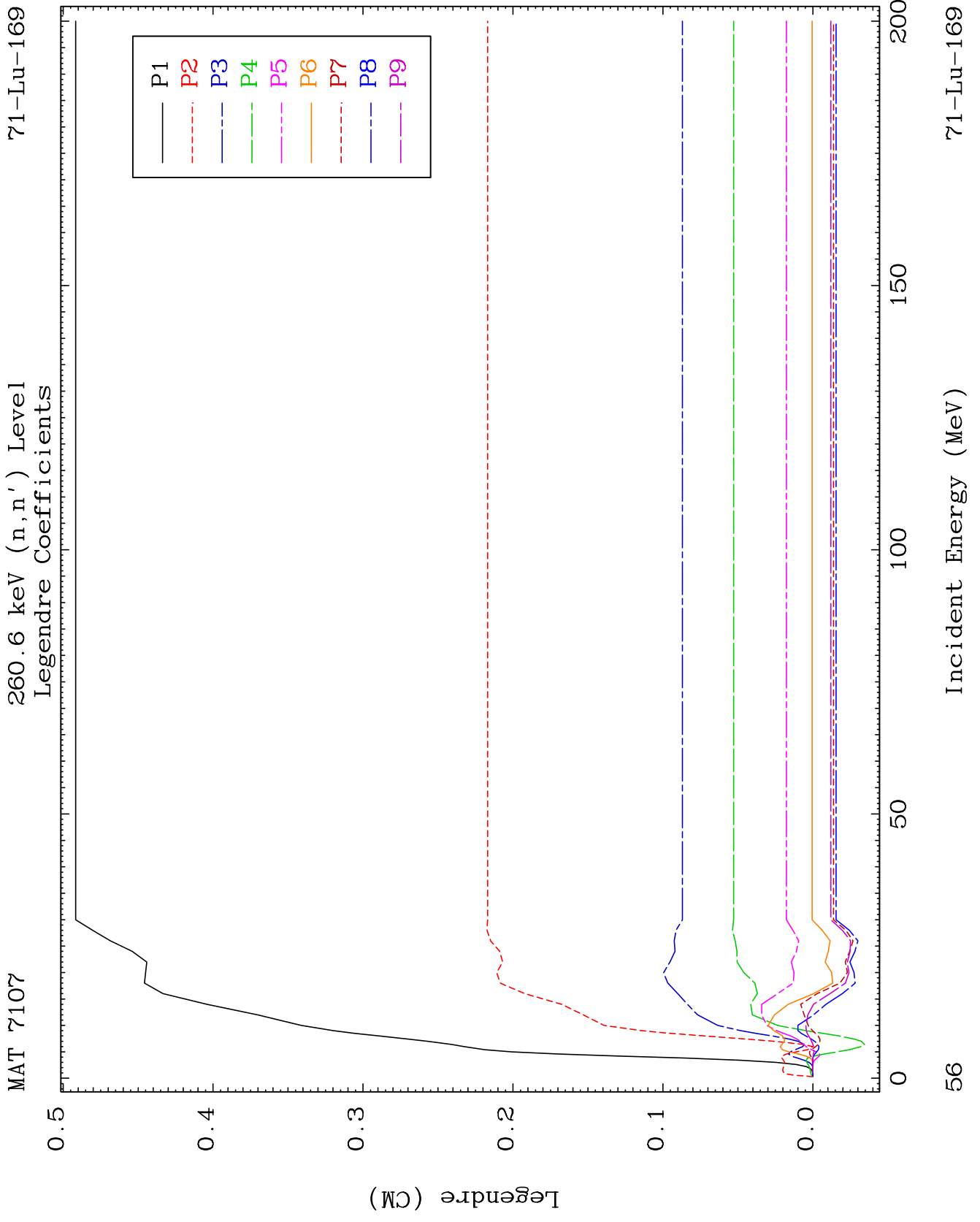
71-Lu-169

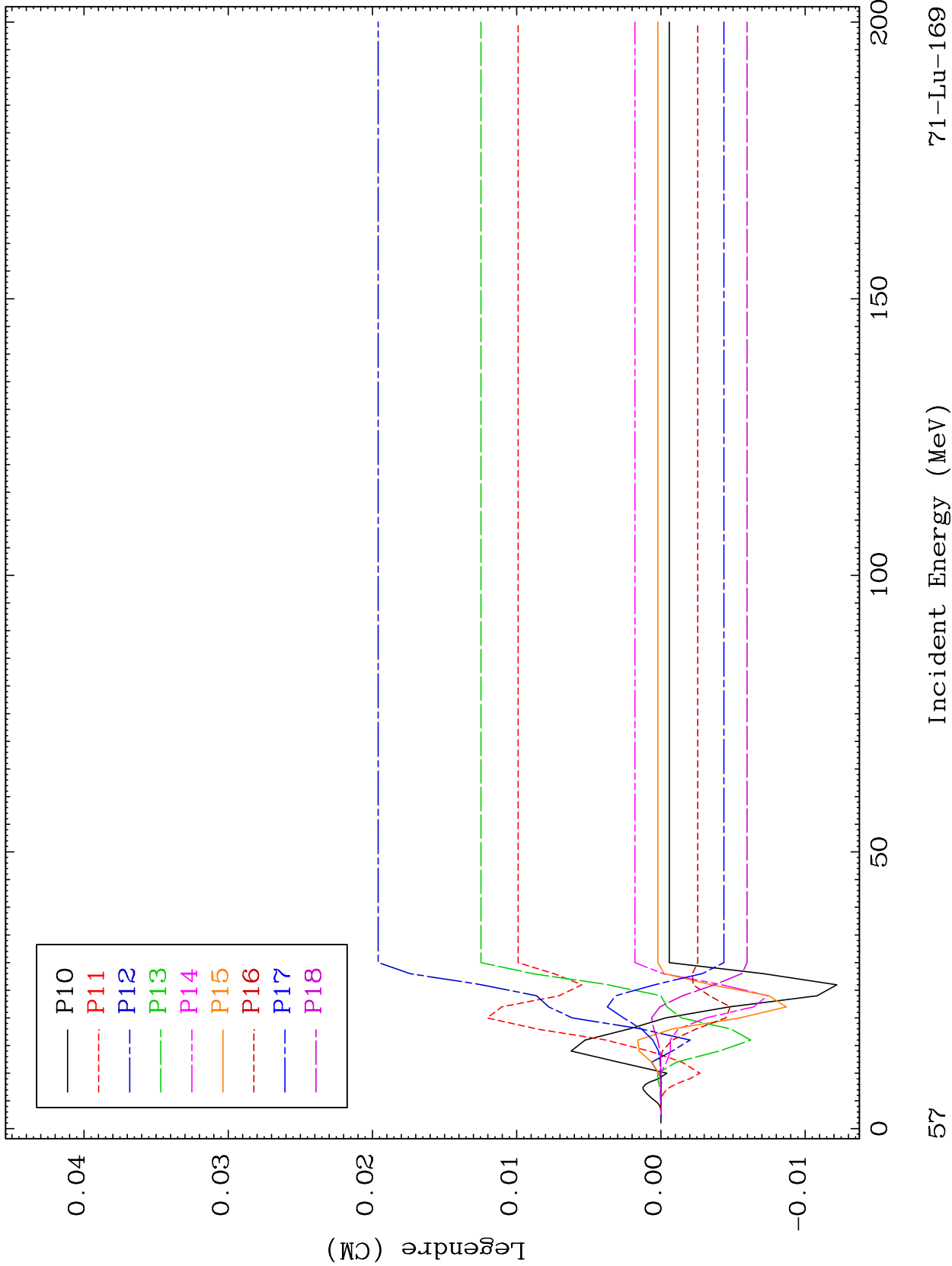


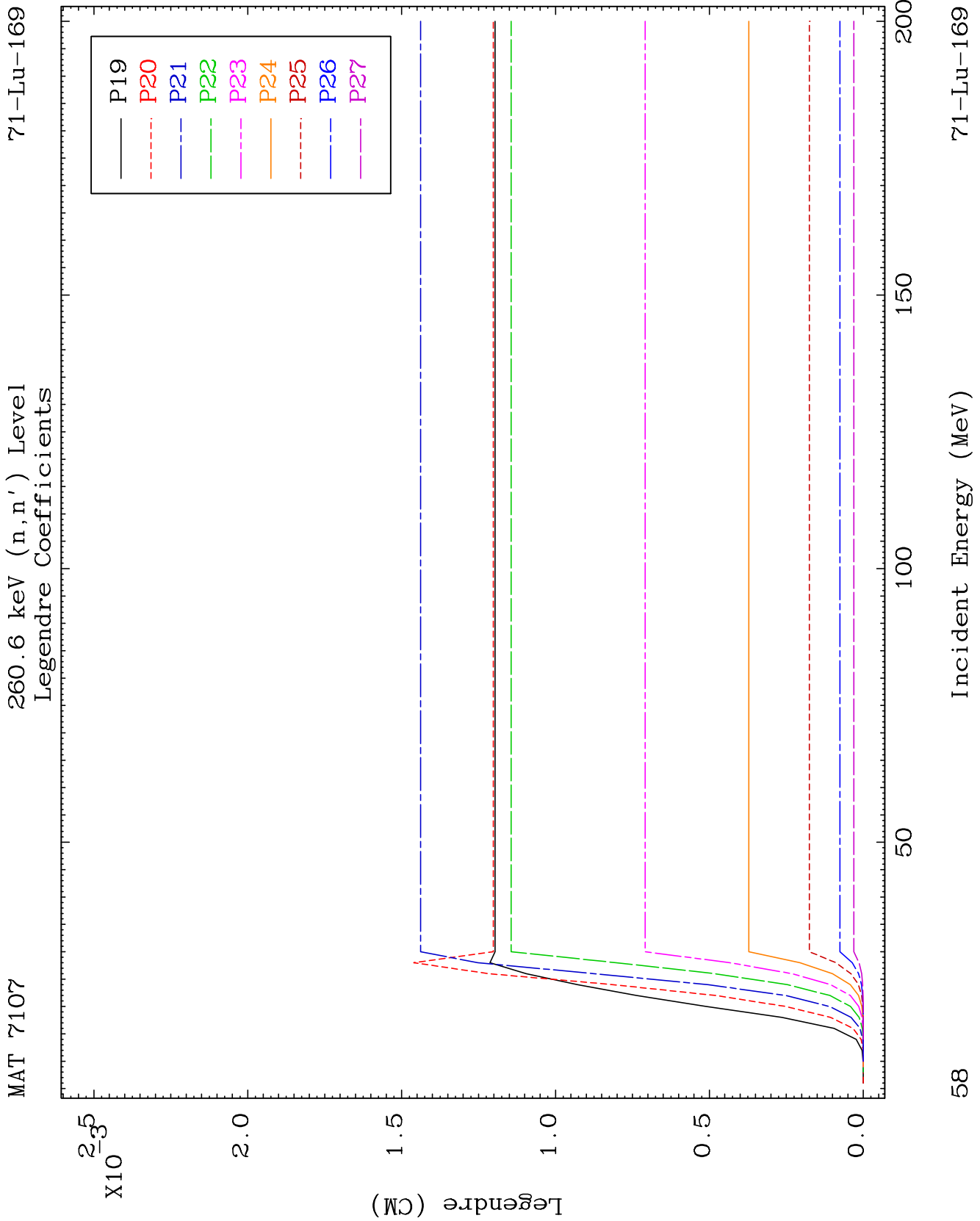
71-Lu-169

Incident Energy (MeV)

55



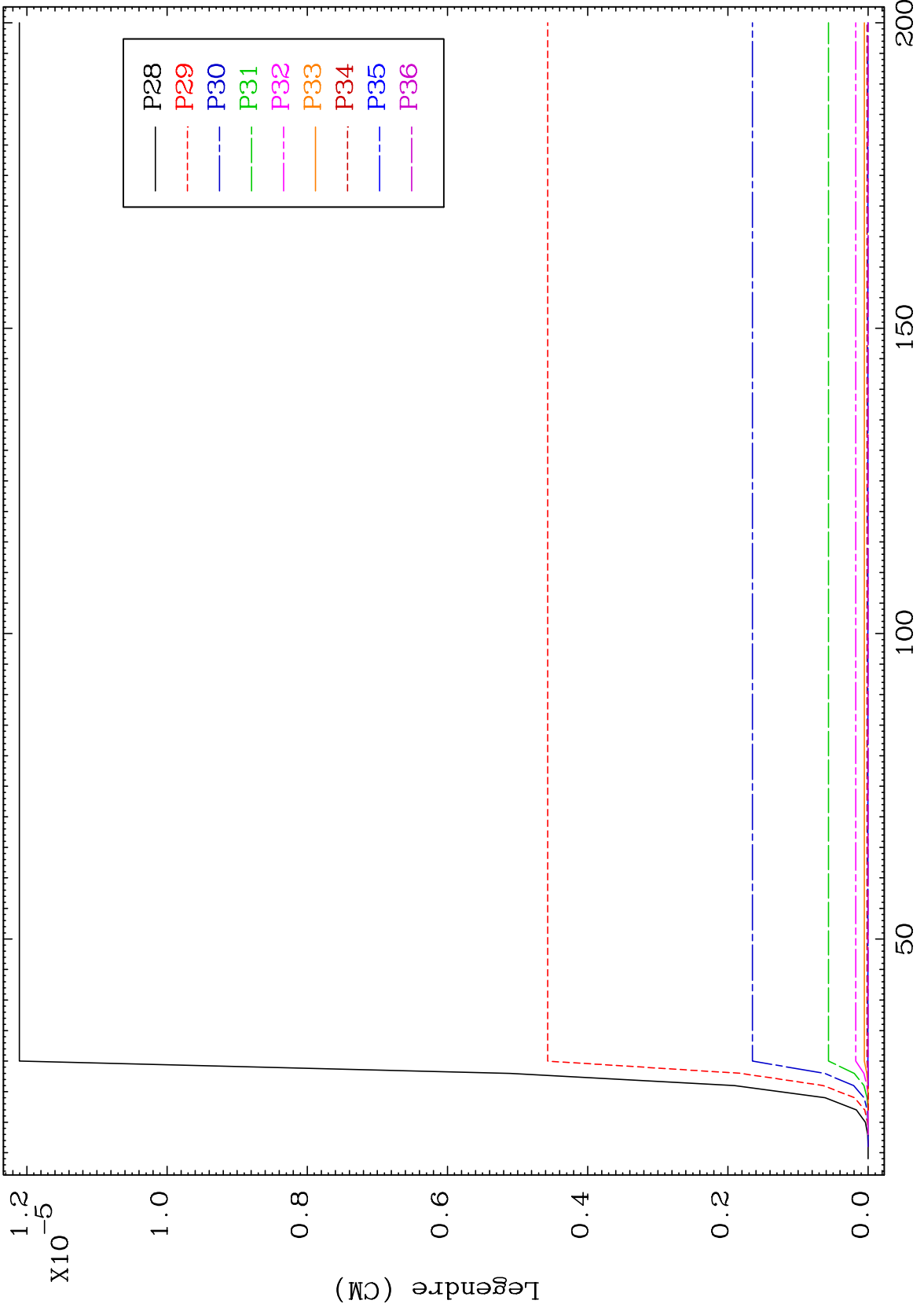




MAT 7107

260.6 keV (n, n') Level
Legendre Coefficients

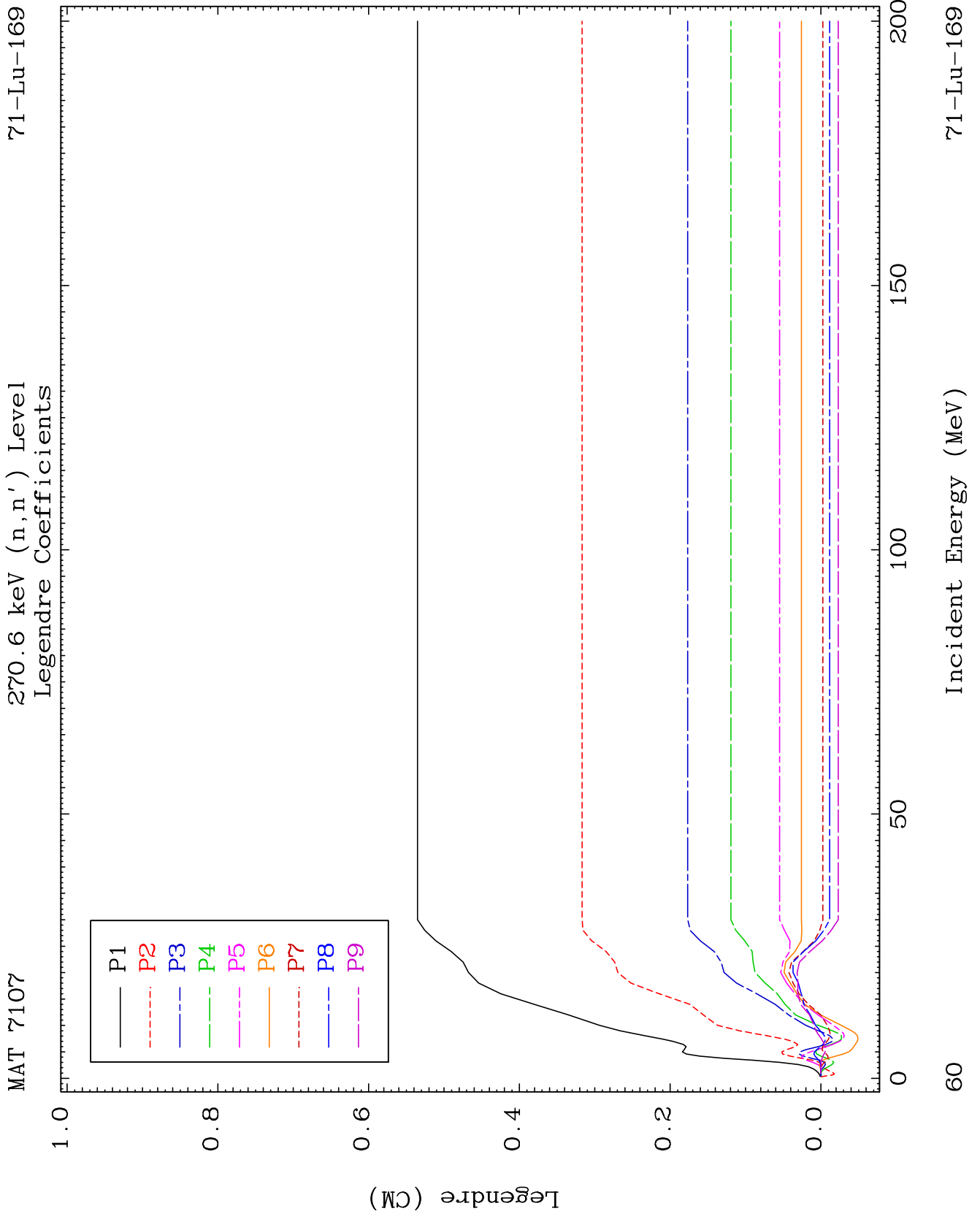
71-Lu-169

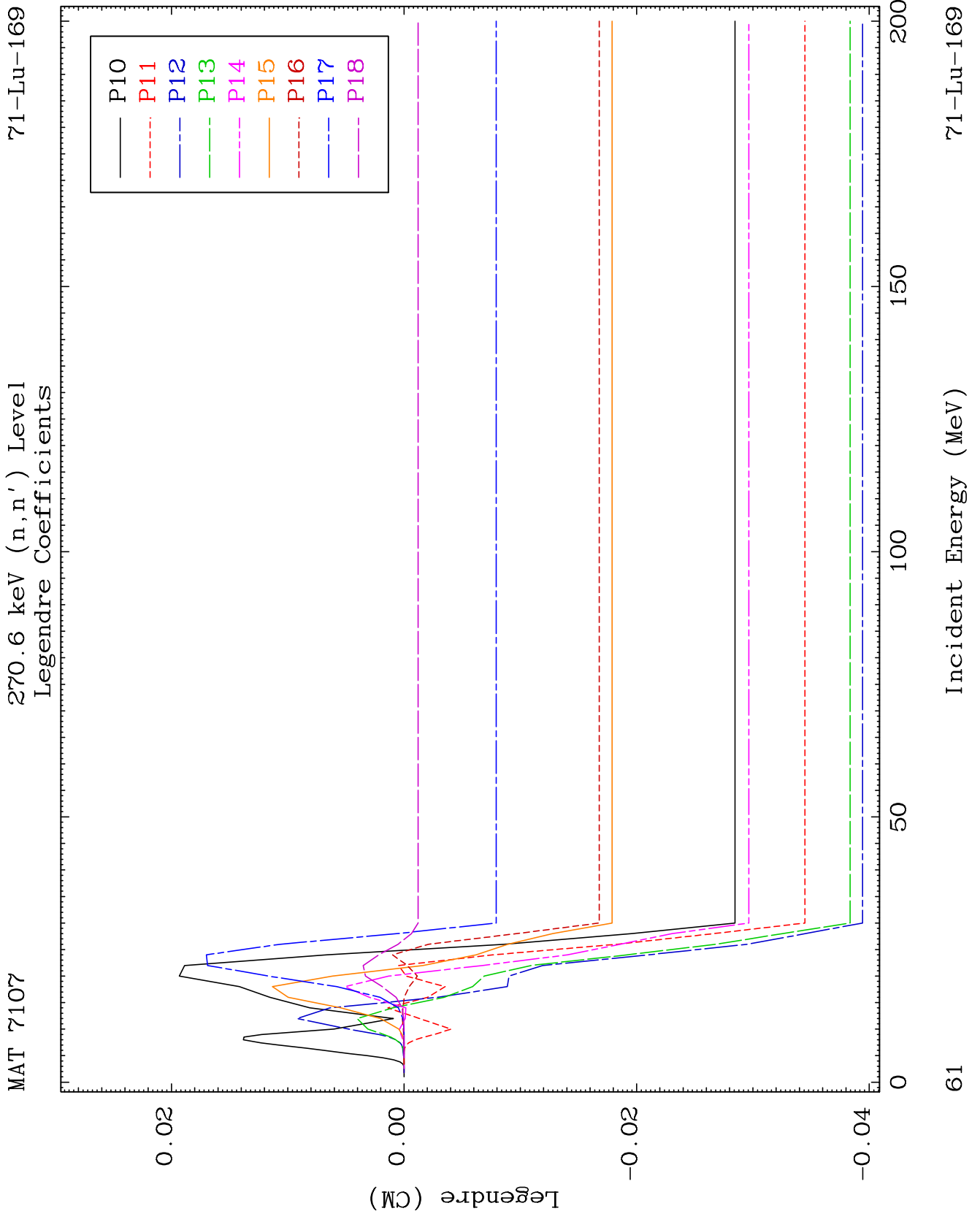


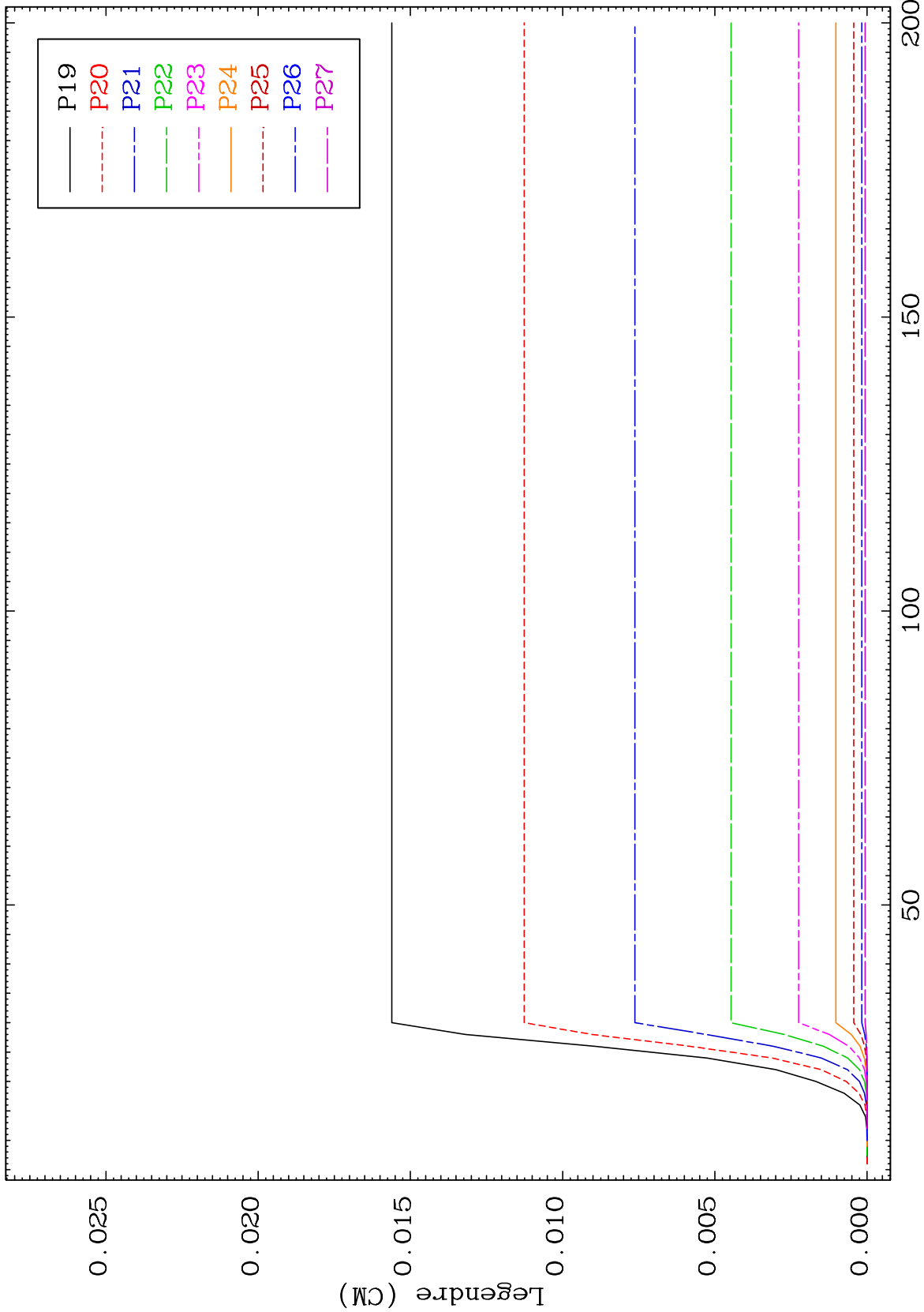
59

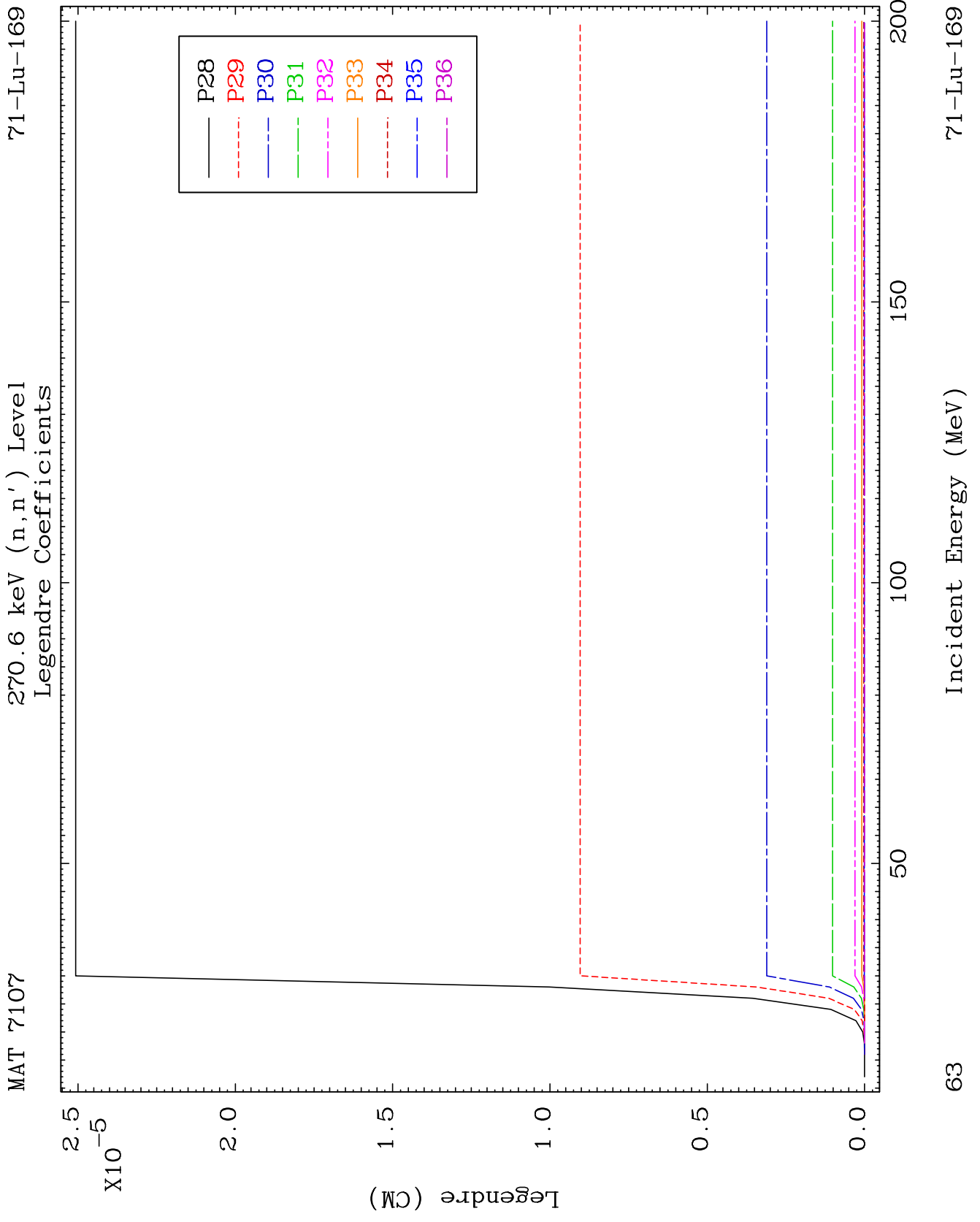
Incident Energy (MeV)

71-Lu-169





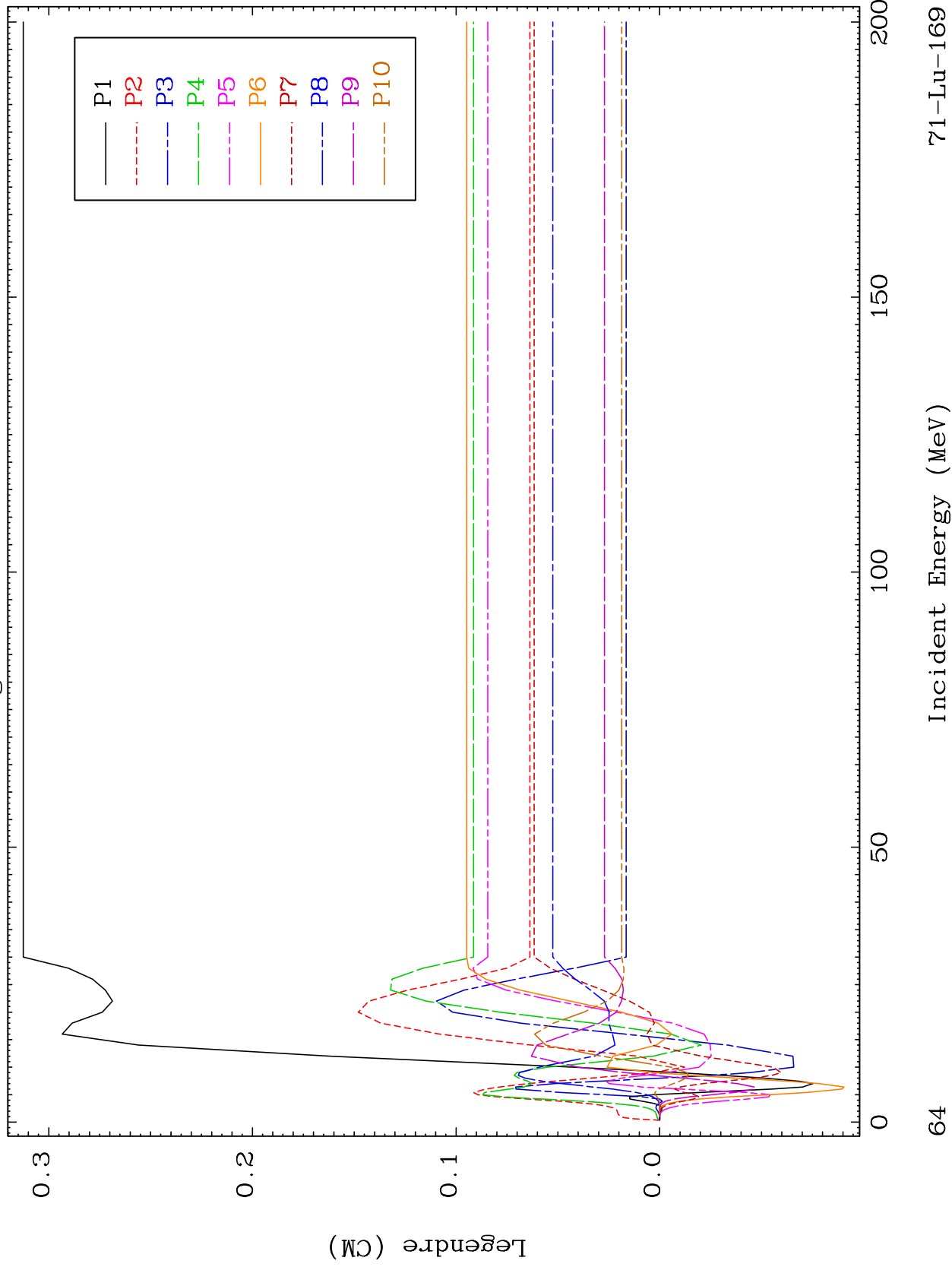




MAT 7107

288.1 keV (n,n') Level
Legendre Coefficients

71-Lu-169



71-Lu-169

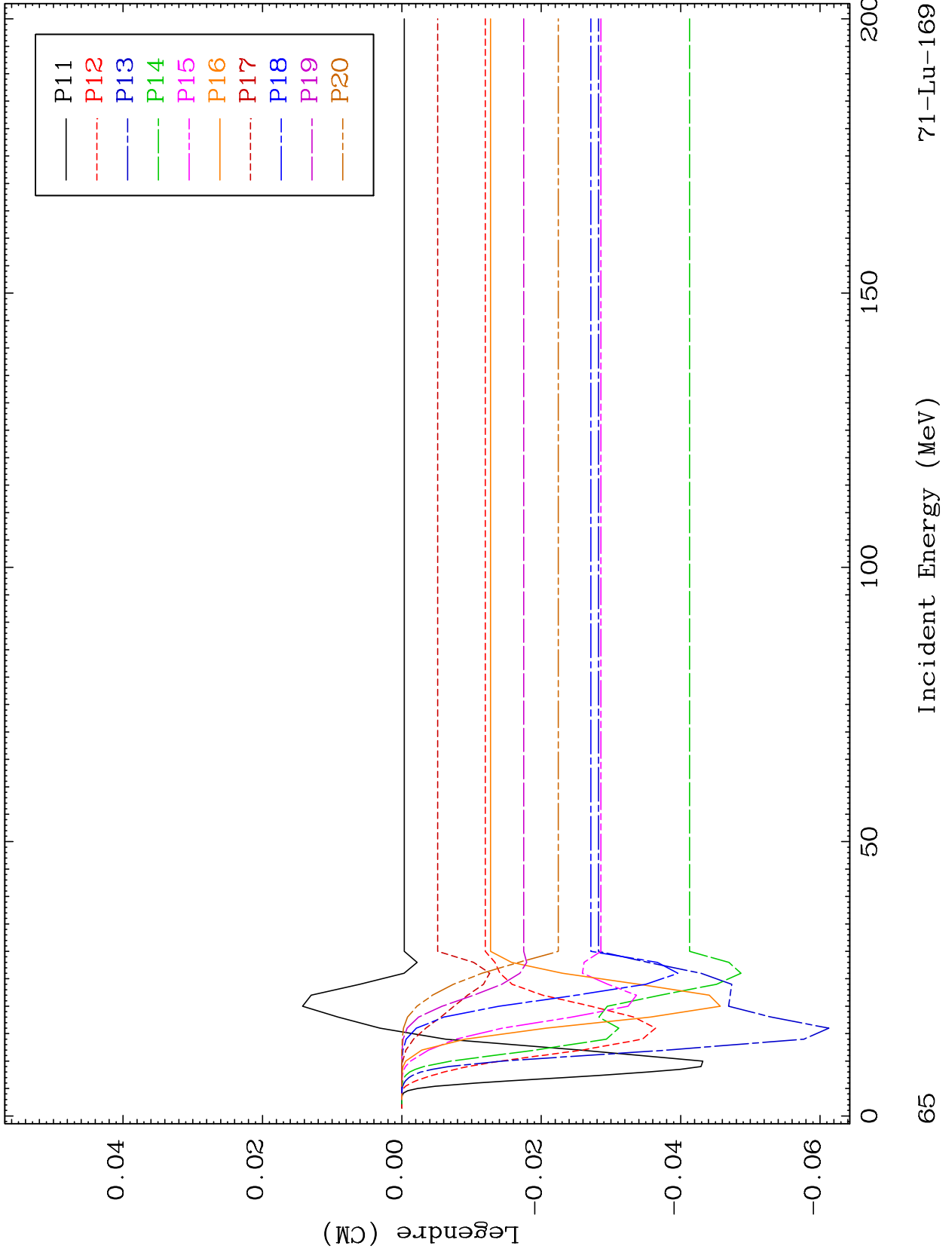
Incident Energy (MeV)

64

MAT 7107

288.1 keV (n,n') Level
Legendre Coefficients

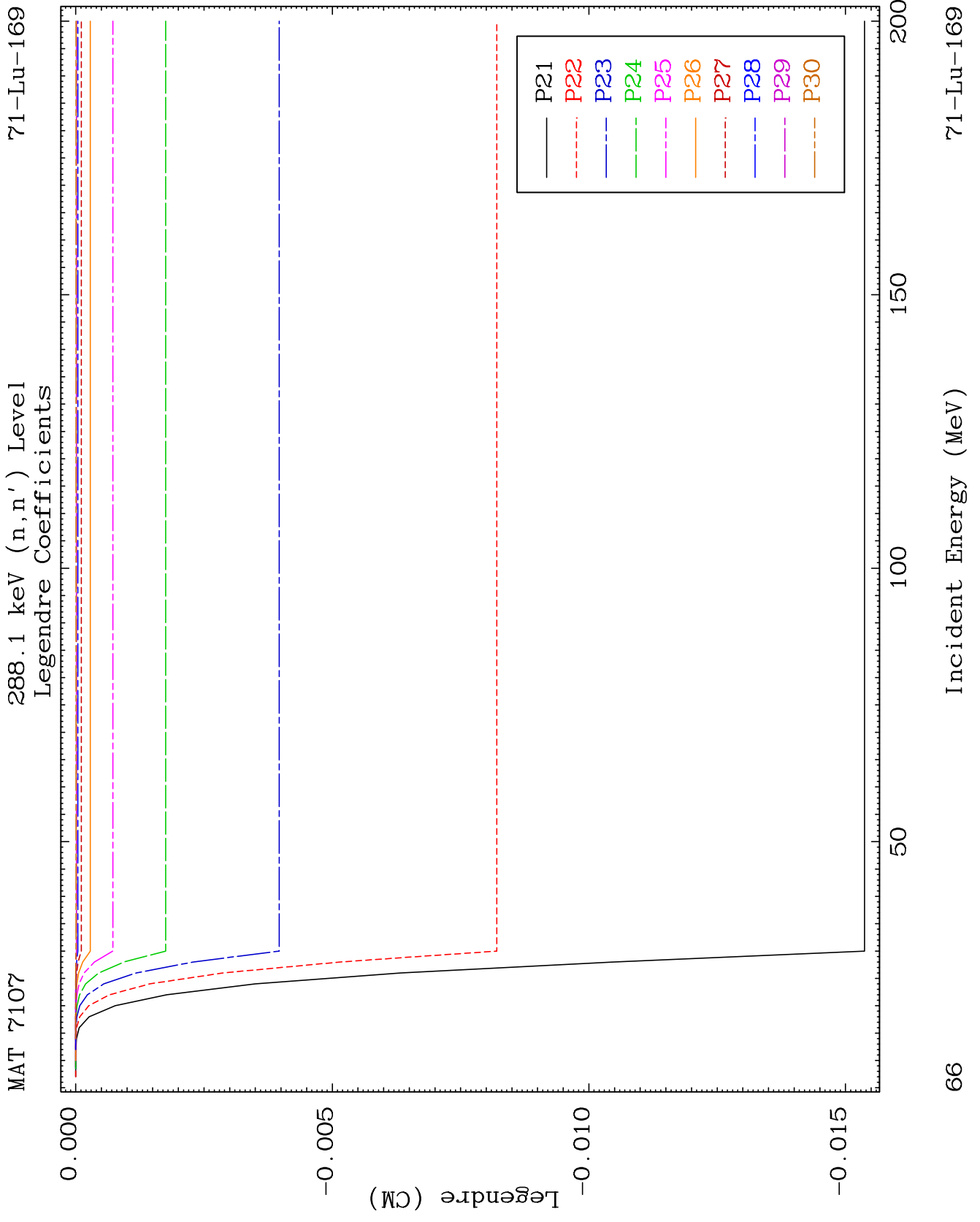
71-Lu-169



71-Lu-169

Incident Energy (MeV)

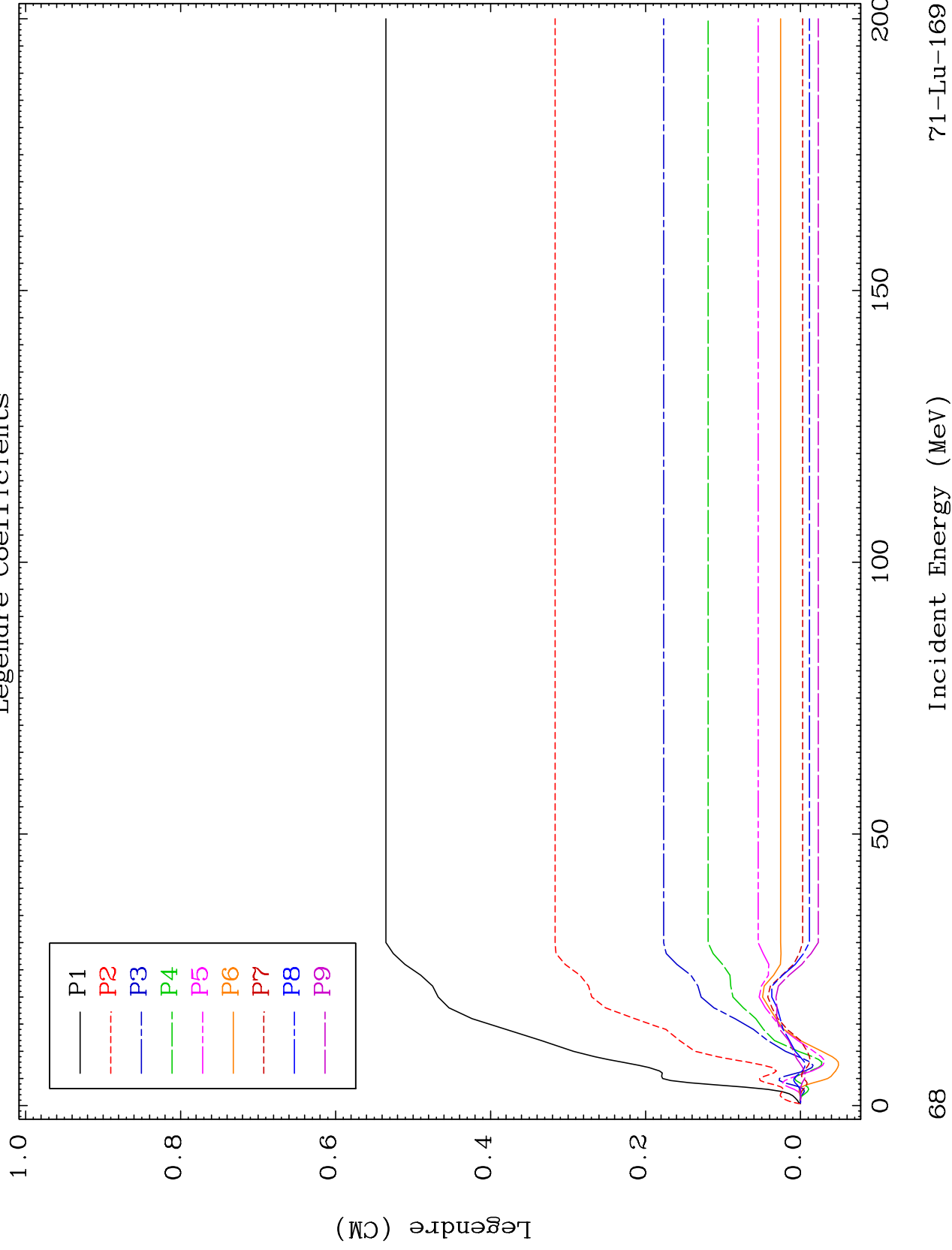
65



MAT 7107

328.4 keV (n,n') Level
Legendre Coefficients

71-Lu-169

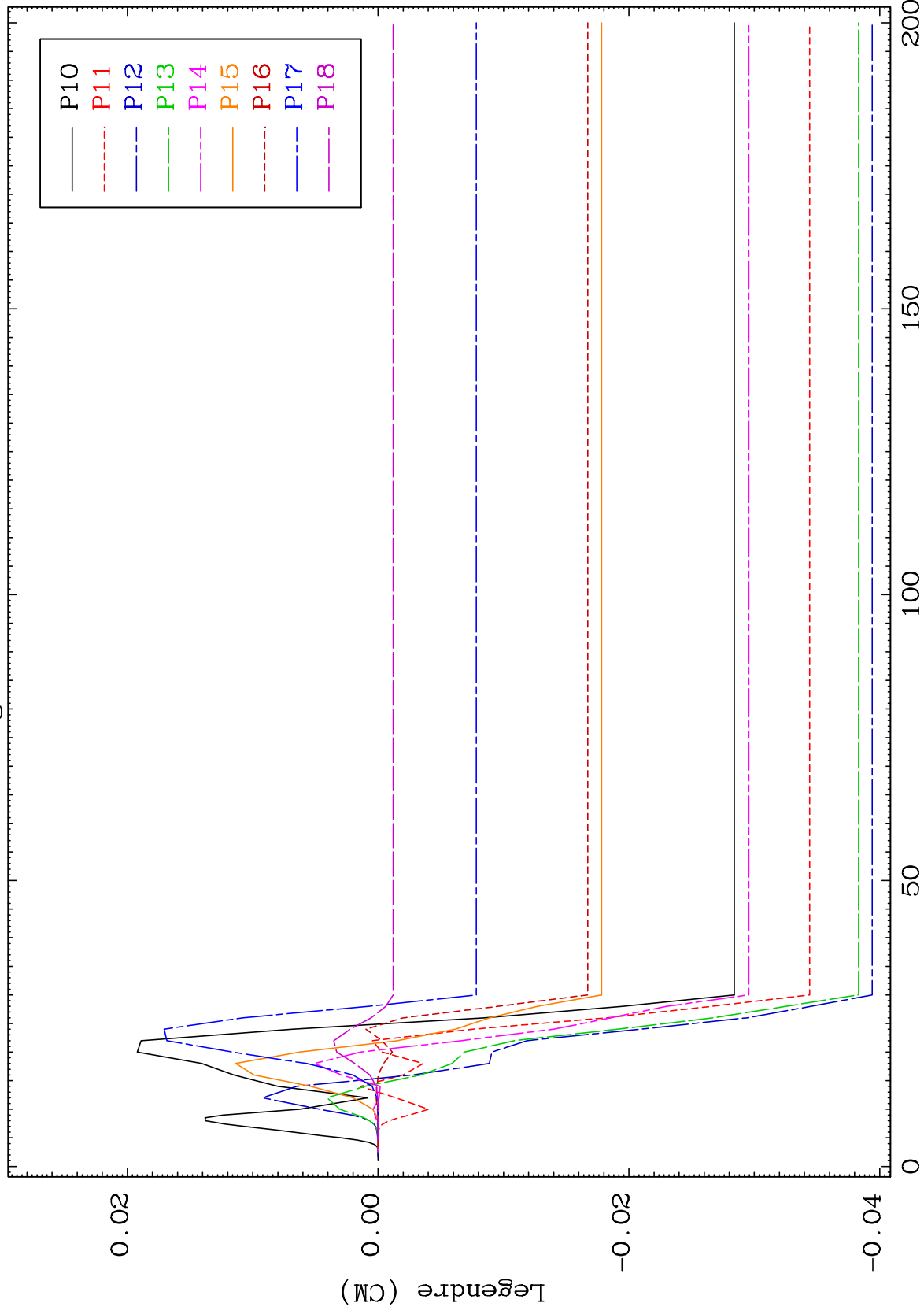


68

MAT 7107

328.4 keV (n,n') Level
Legendre Coefficients

71-Lu-169



69

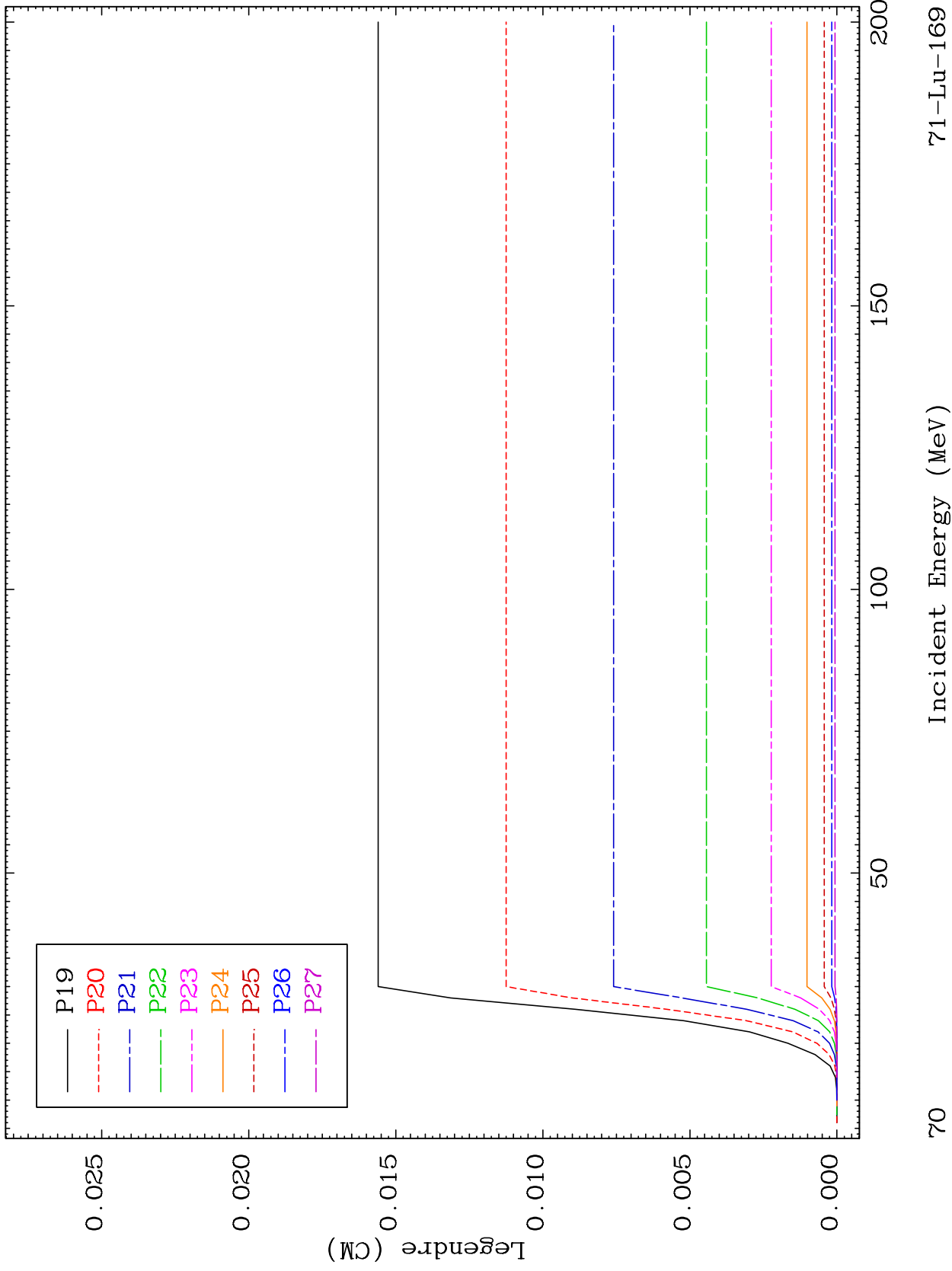
Incident Energy (MeV)

71-Lu-169

MAT 7107

328.4 keV (n, n') Level
Legendre Coefficients

71-Lu-169



70

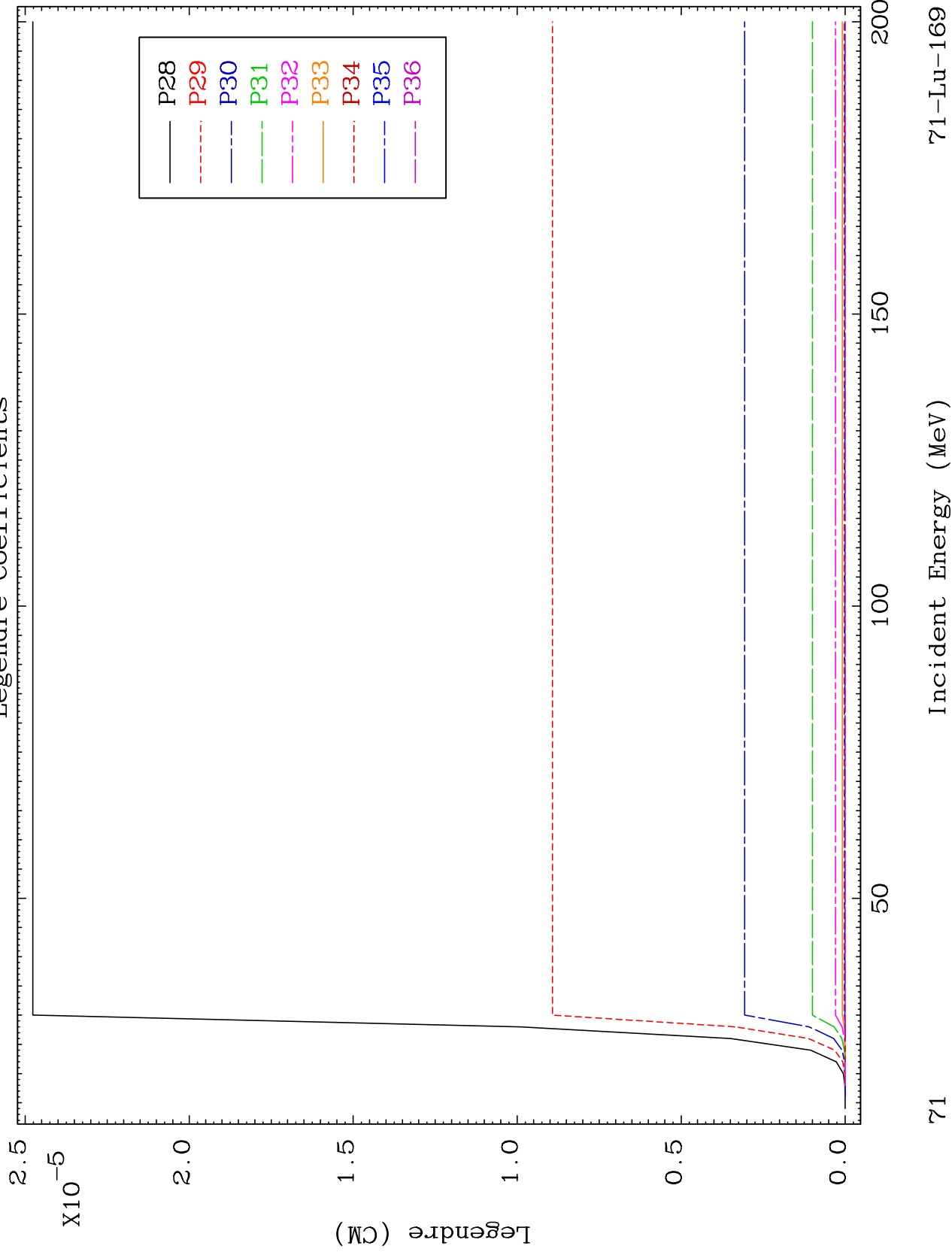
Incident Energy (MeV)

71-Lu-169

MAT 7107

328.4 keV (n,n') Level
Legendre Coefficients

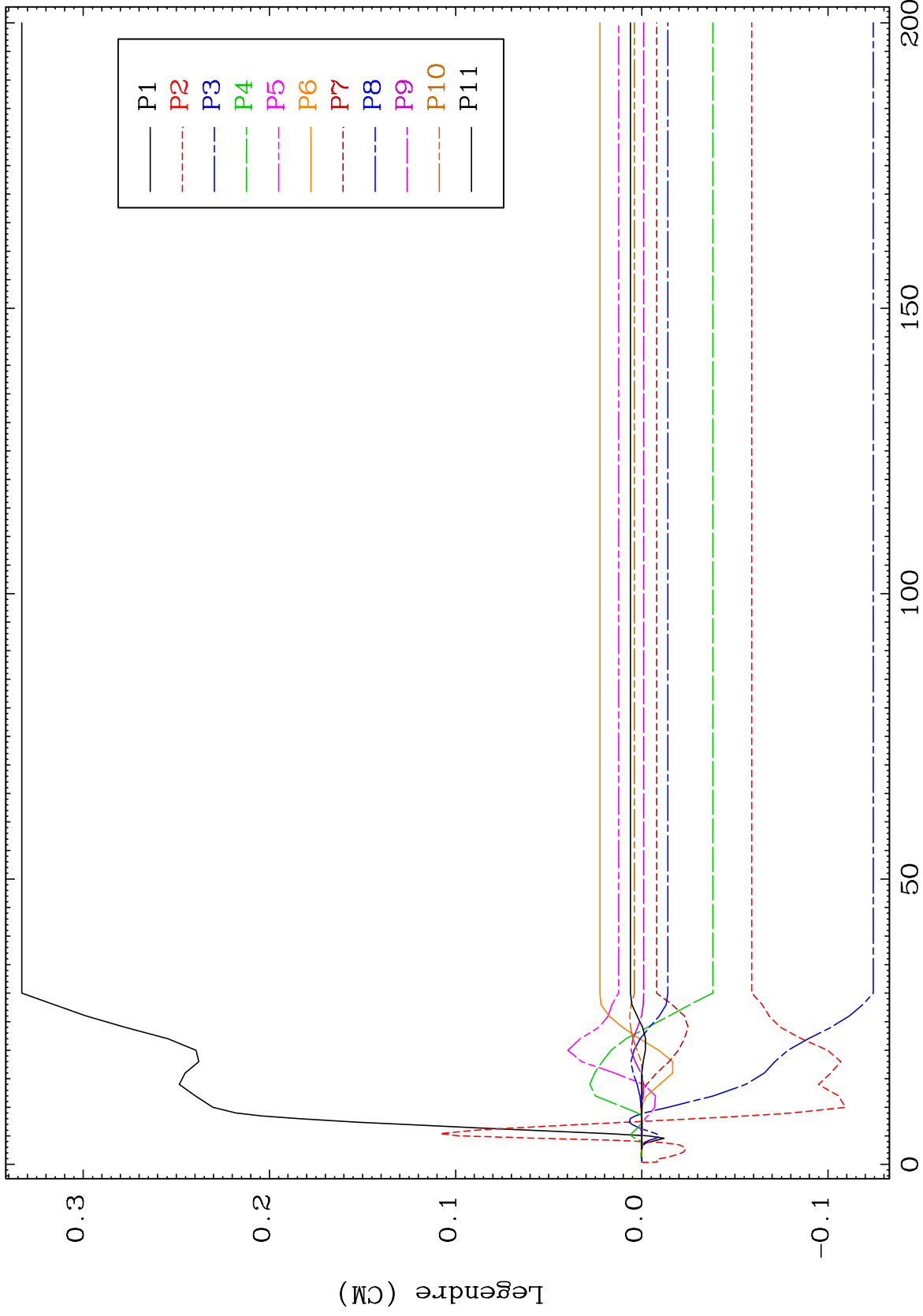
71-Lu-169



MAT 7107

330.4 keV (n,n') Level
Legendre Coefficients

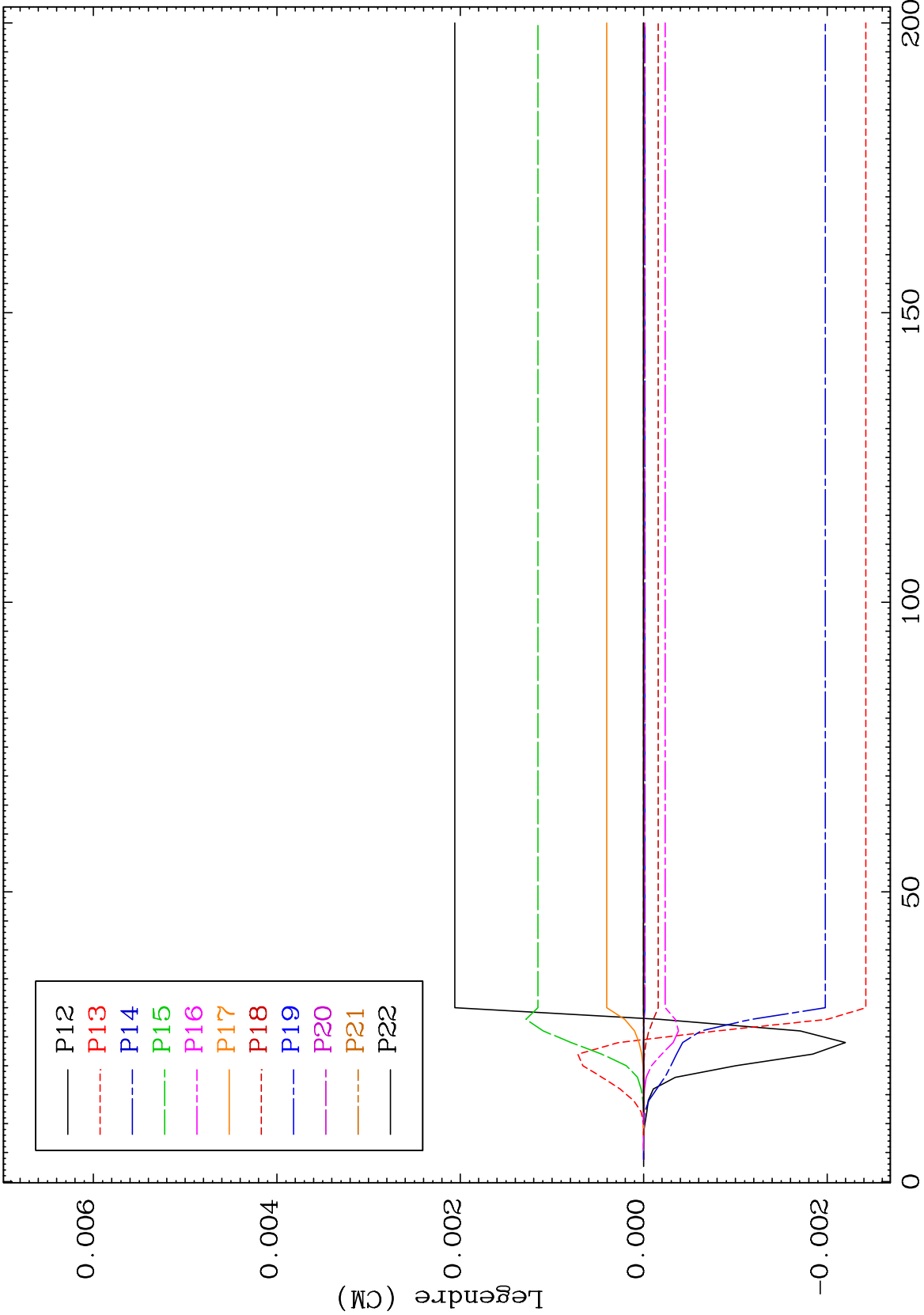
71-Lu-169

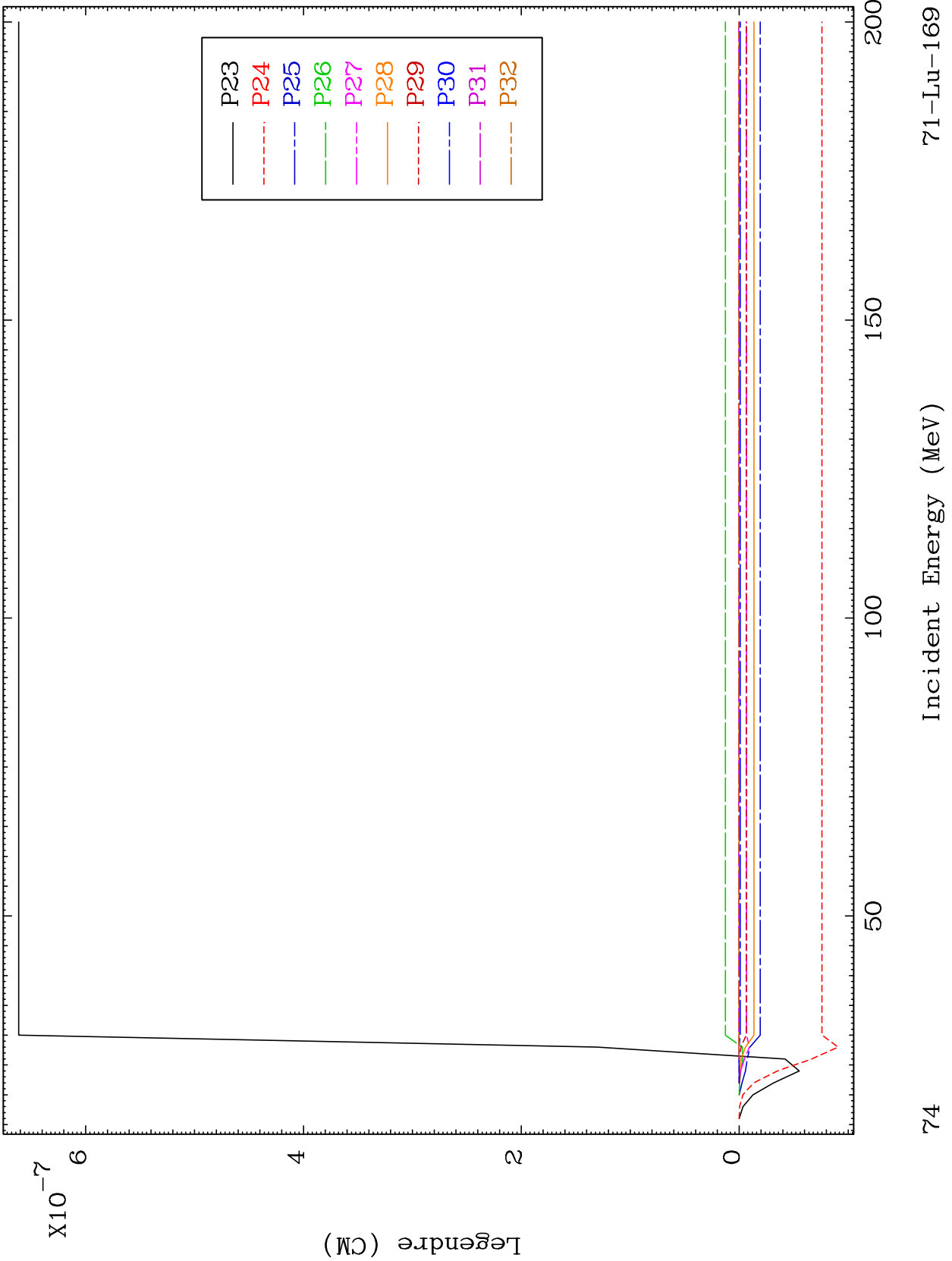


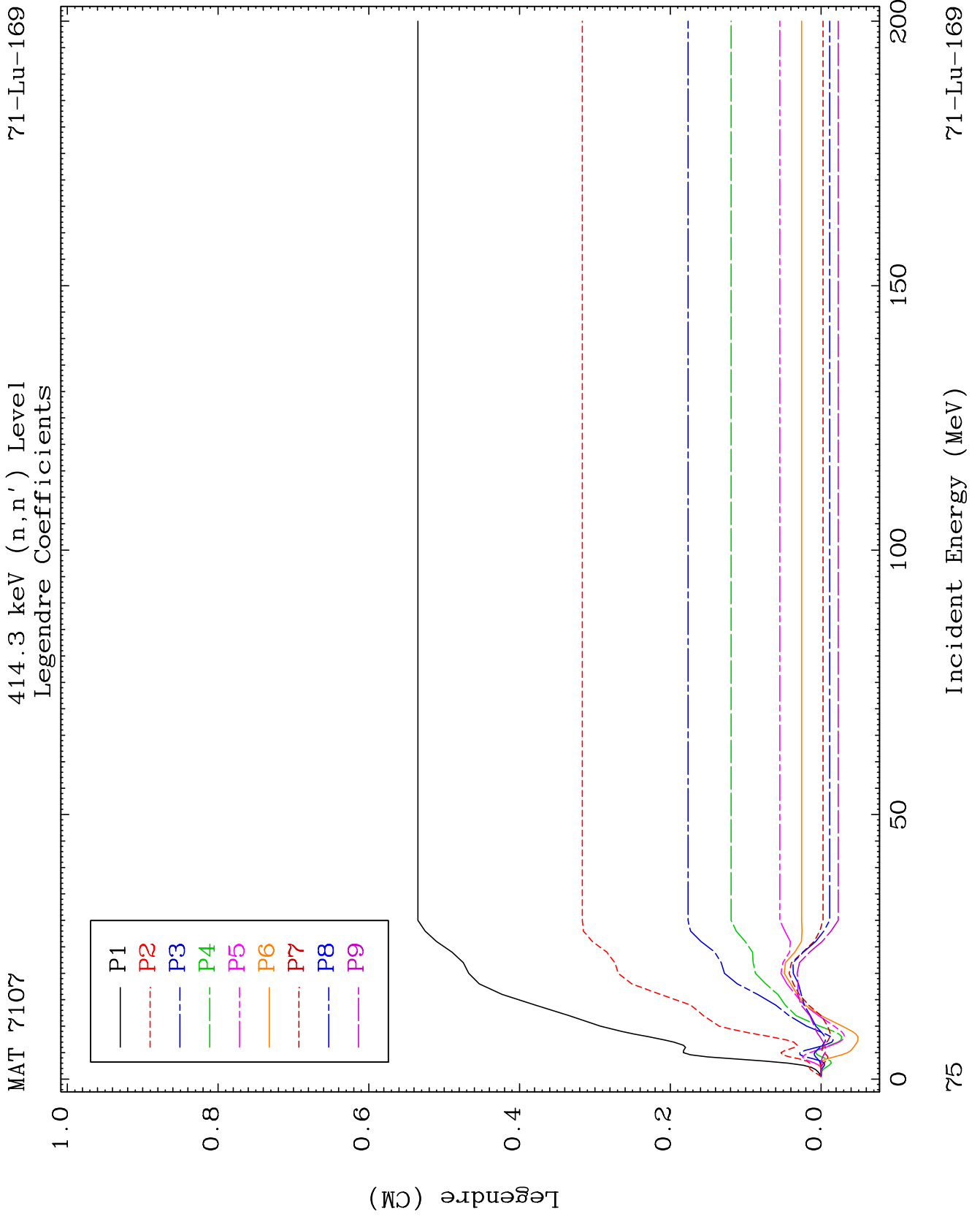
72

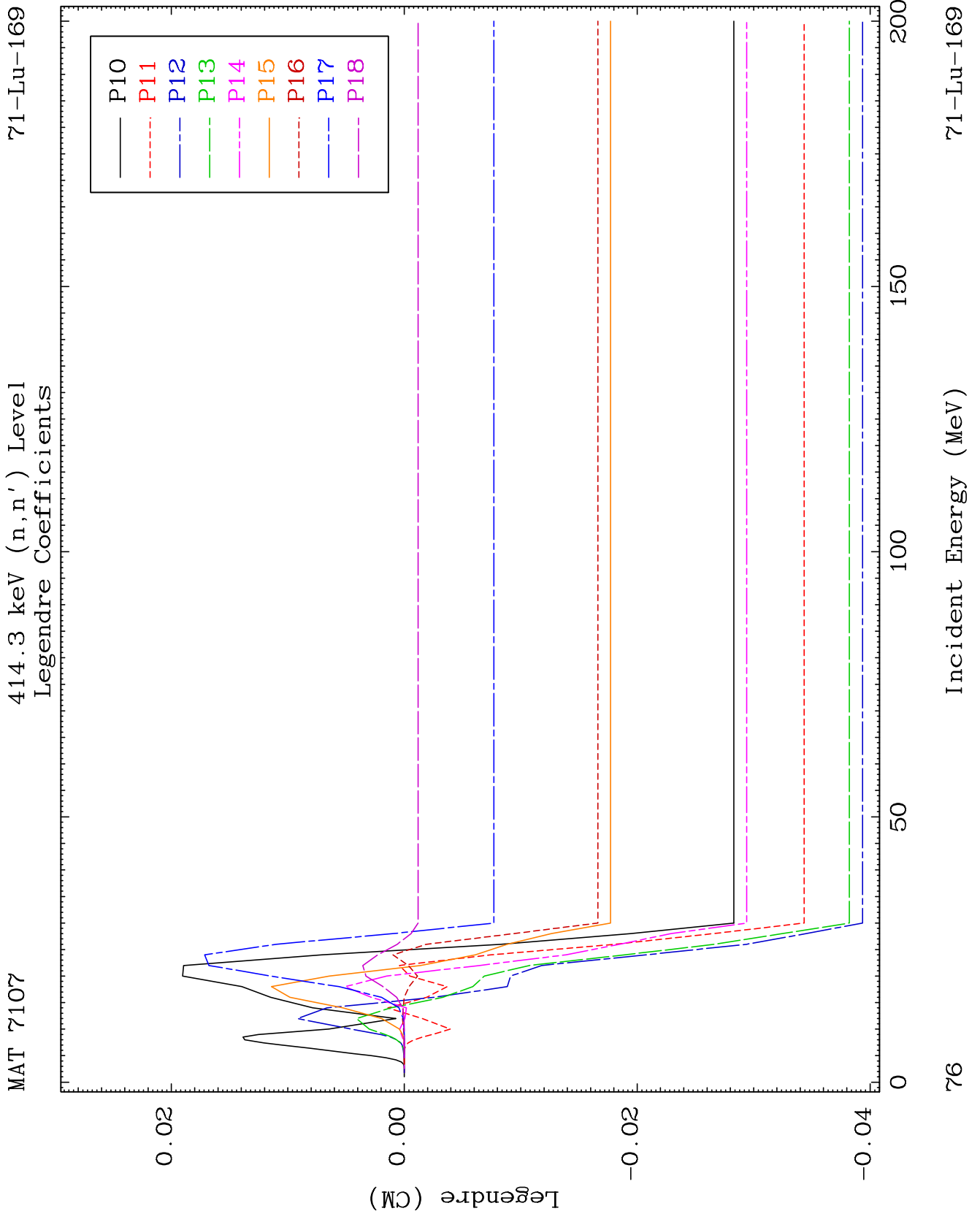
Incident Energy (MeV)

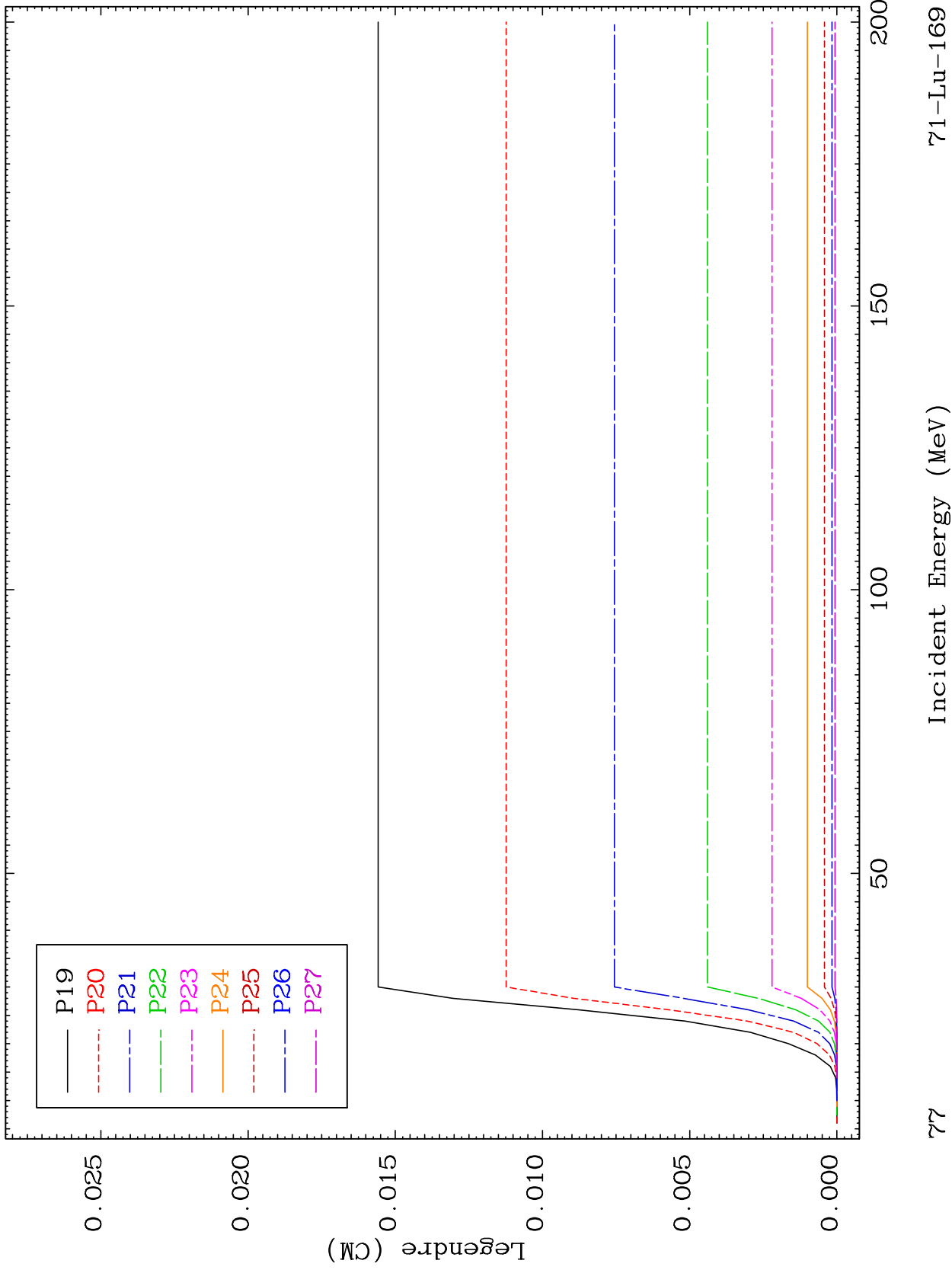
71-Lu-169







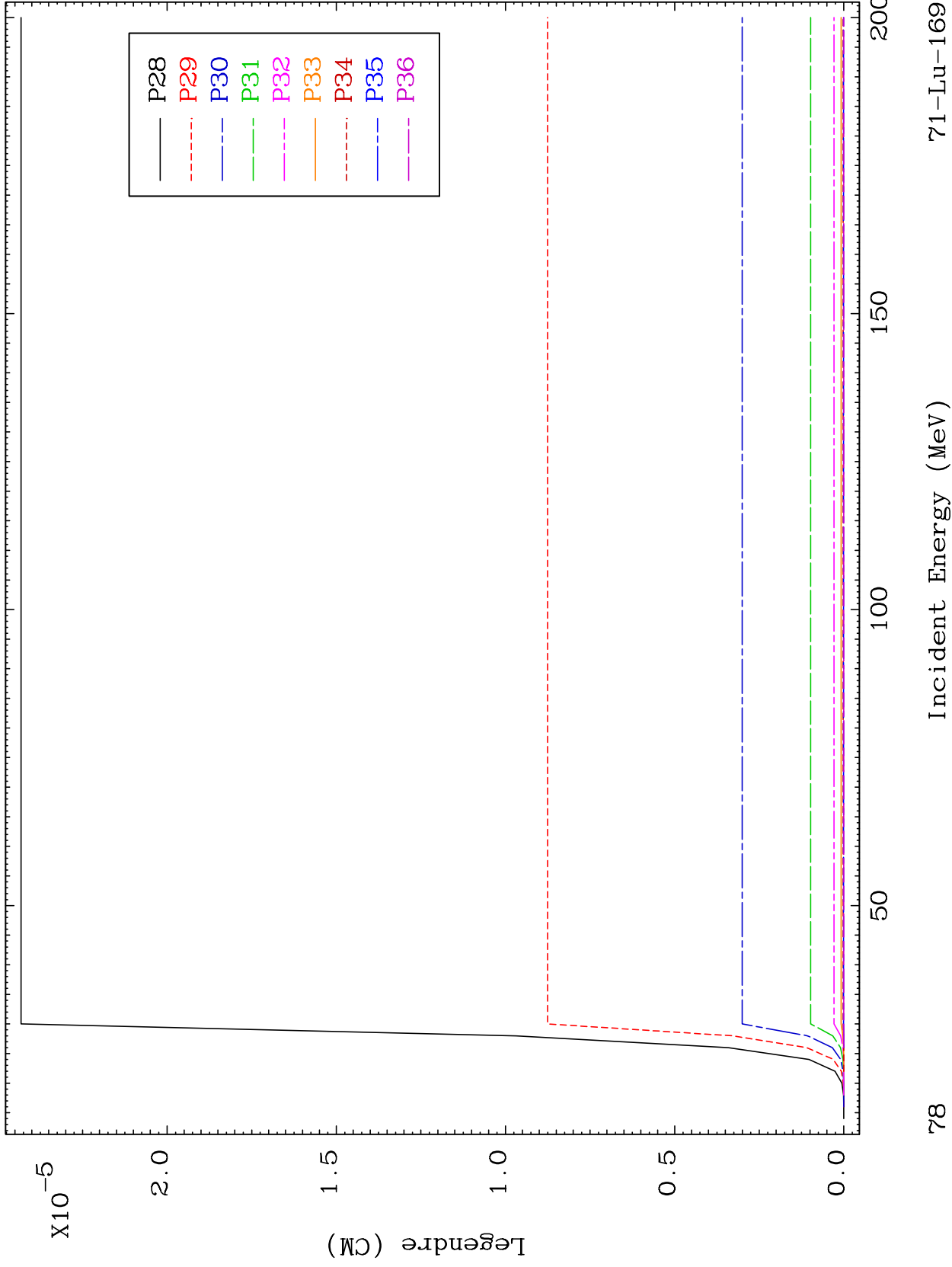




MAT 7107

414.3 keV (n, n') Level
Legendre Coefficients

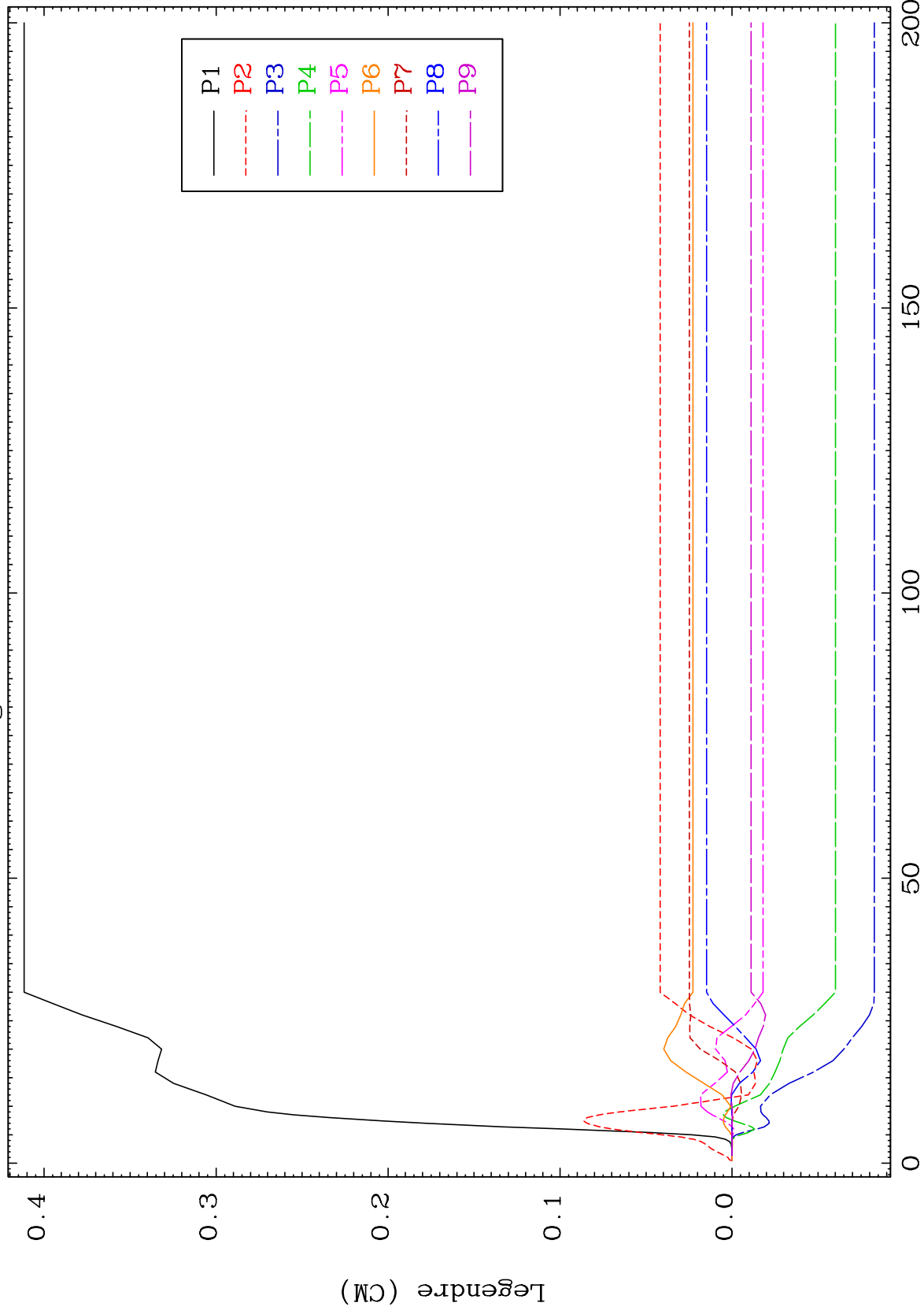
71-Lu-169



MAT 7107

439.1 keV (n,n') Level
Legendre Coefficients

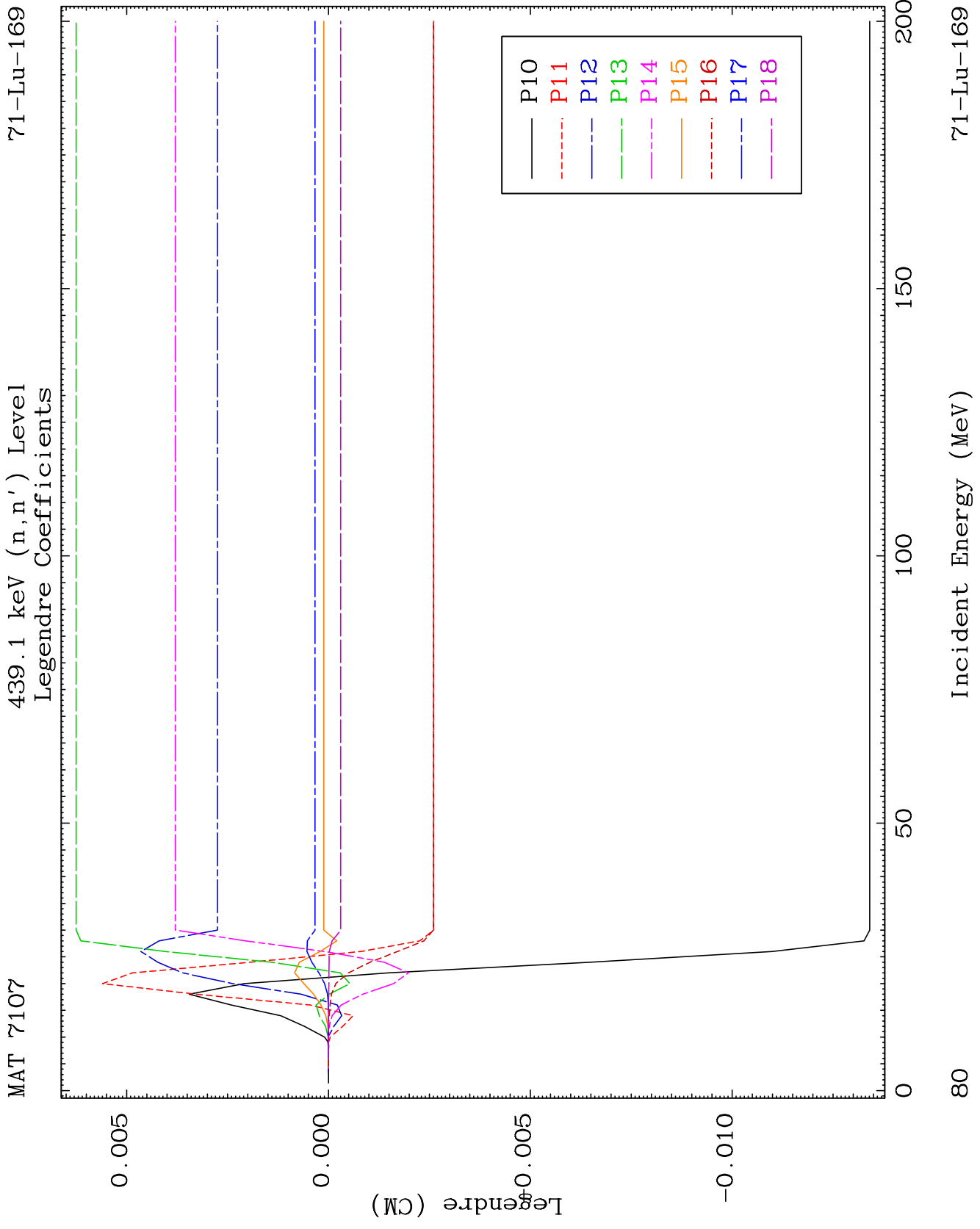
71-Lu-169

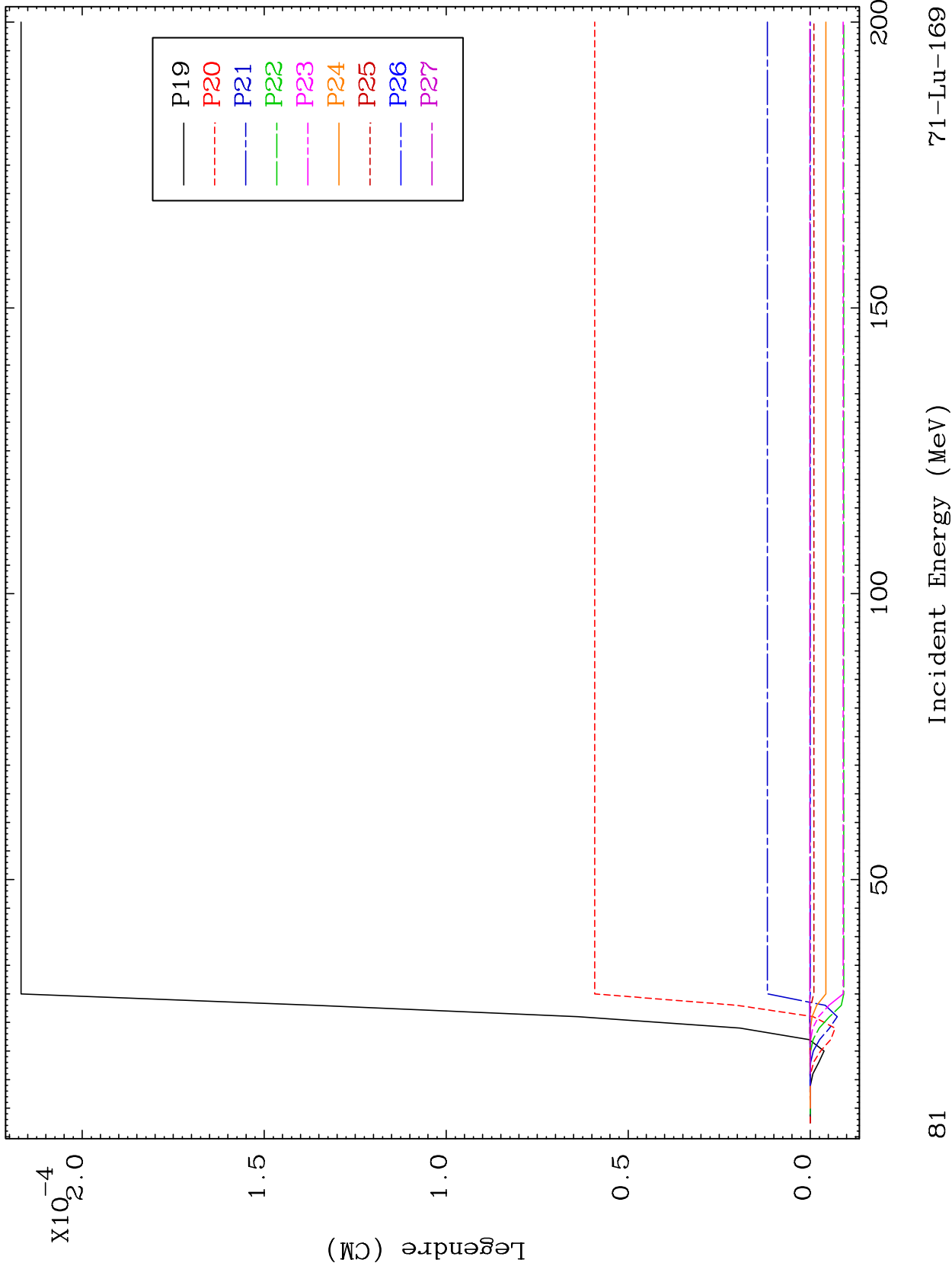


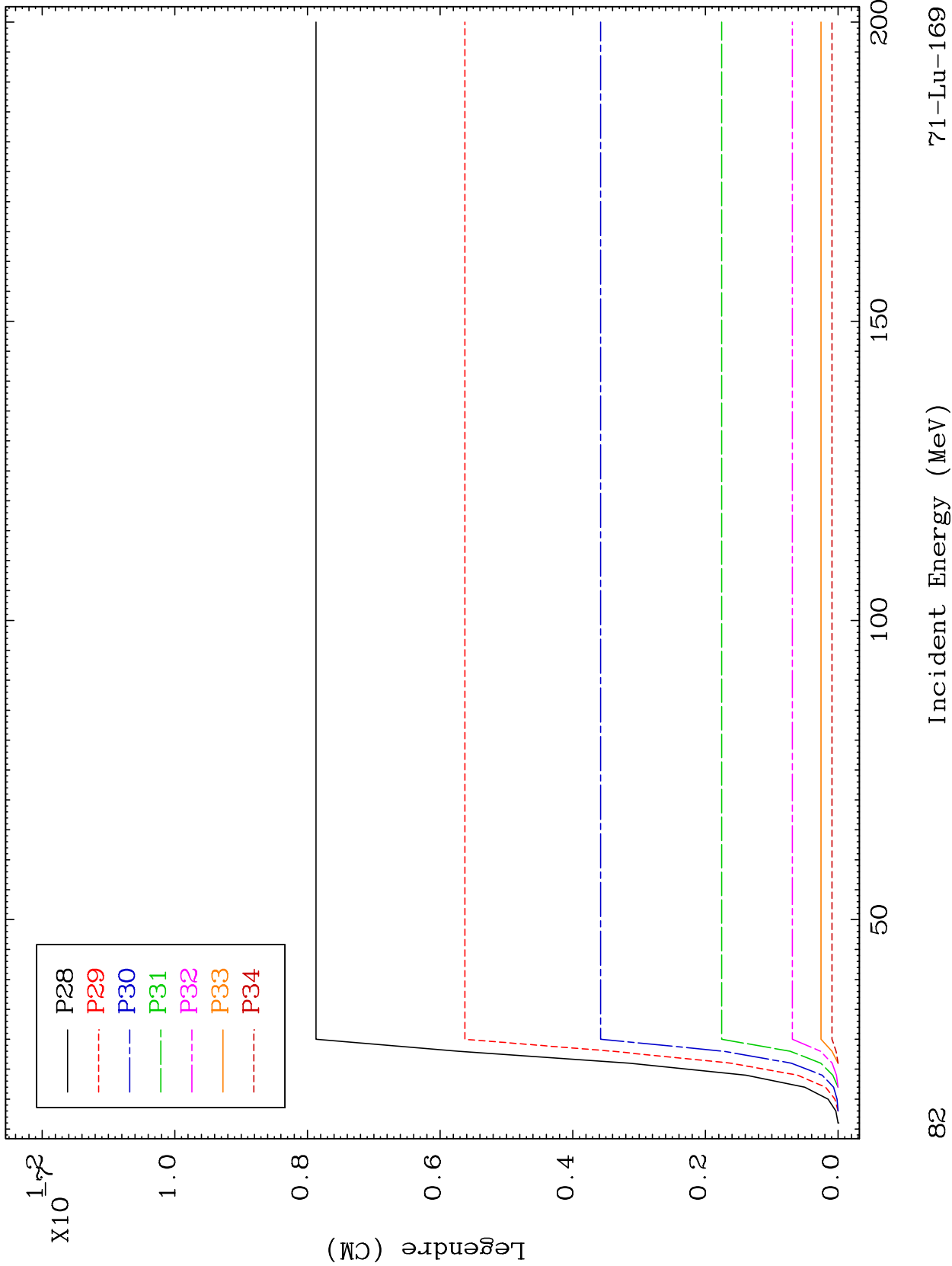
79

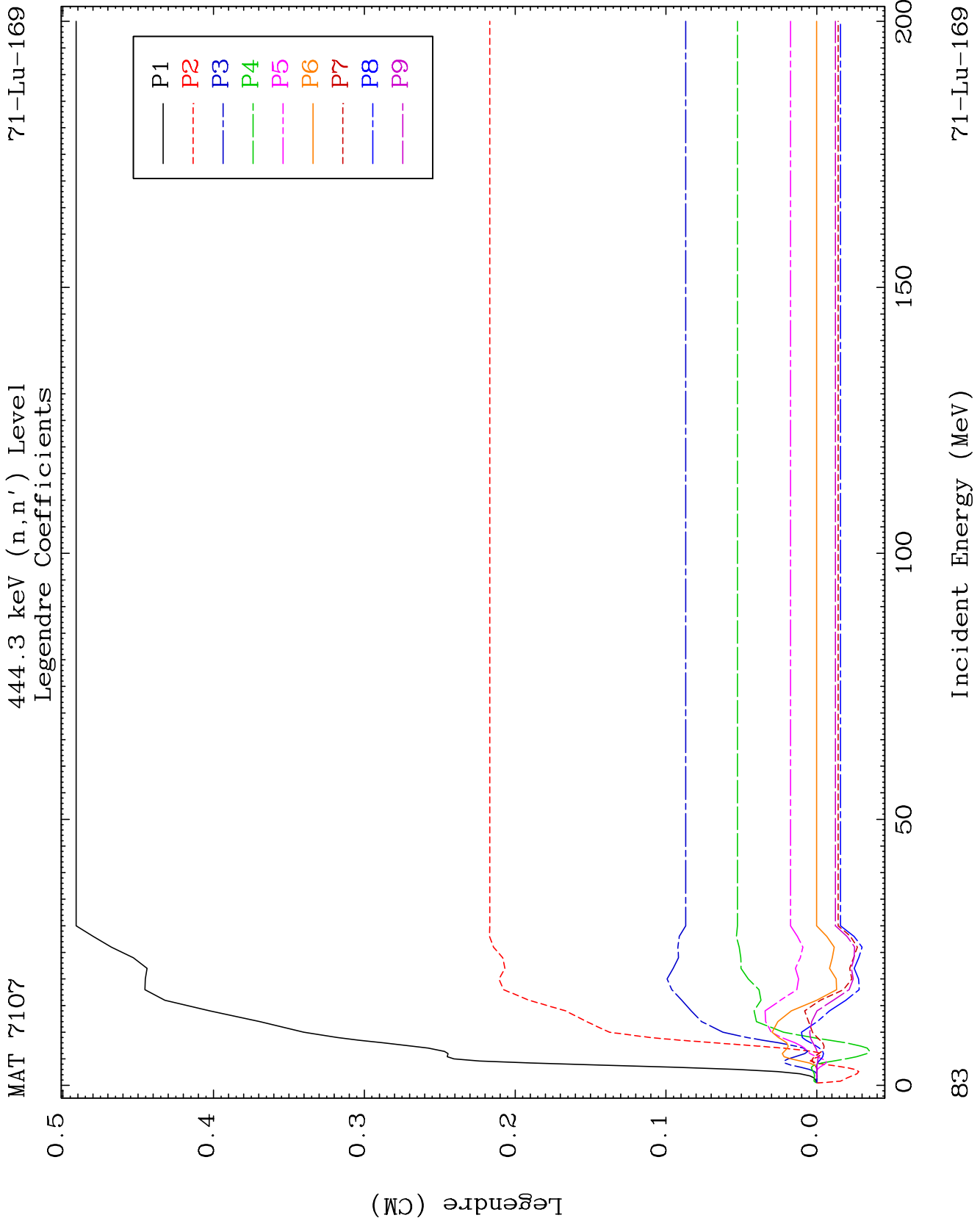
Incident Energy (MeV)

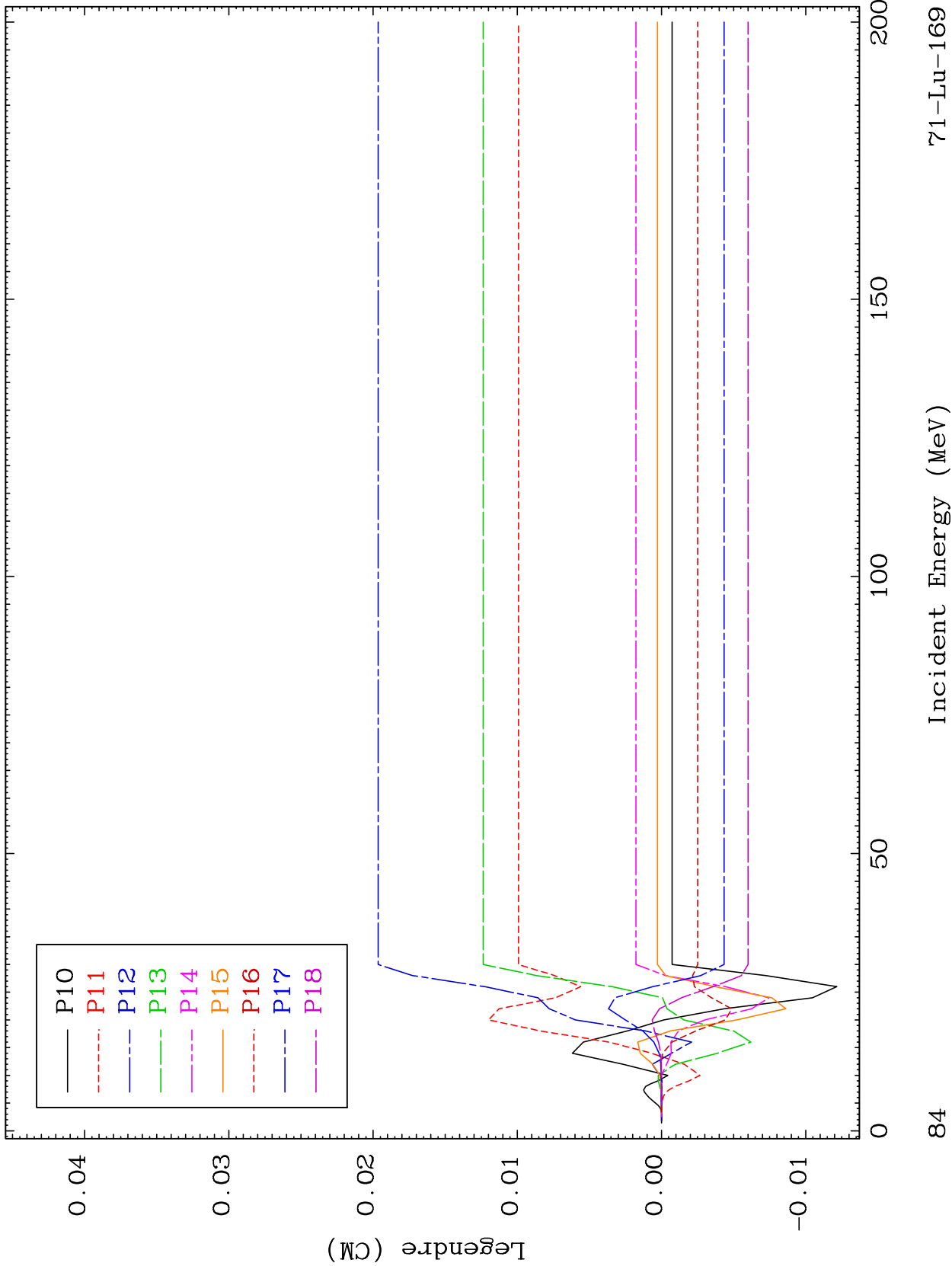
71-Lu-169

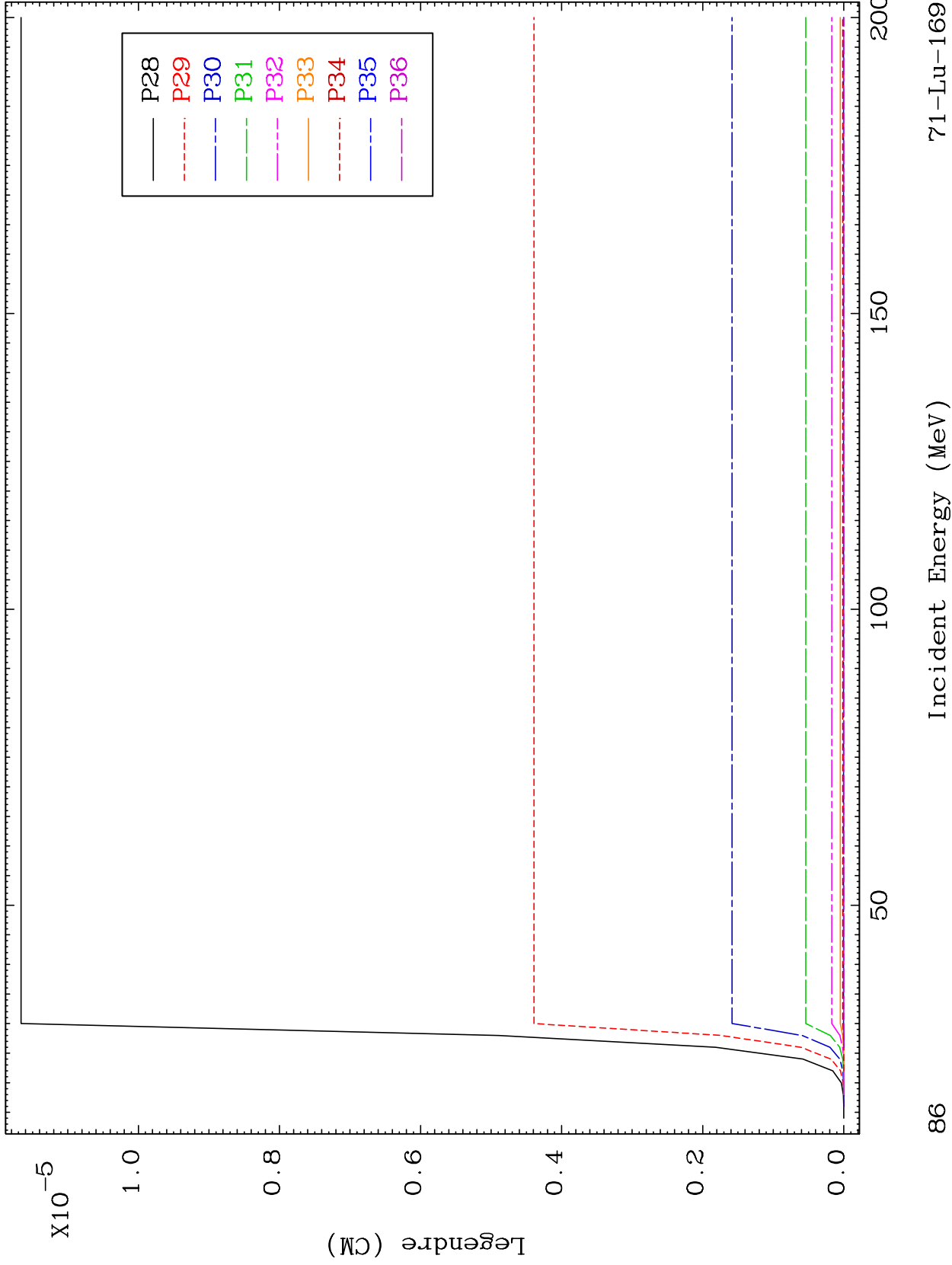


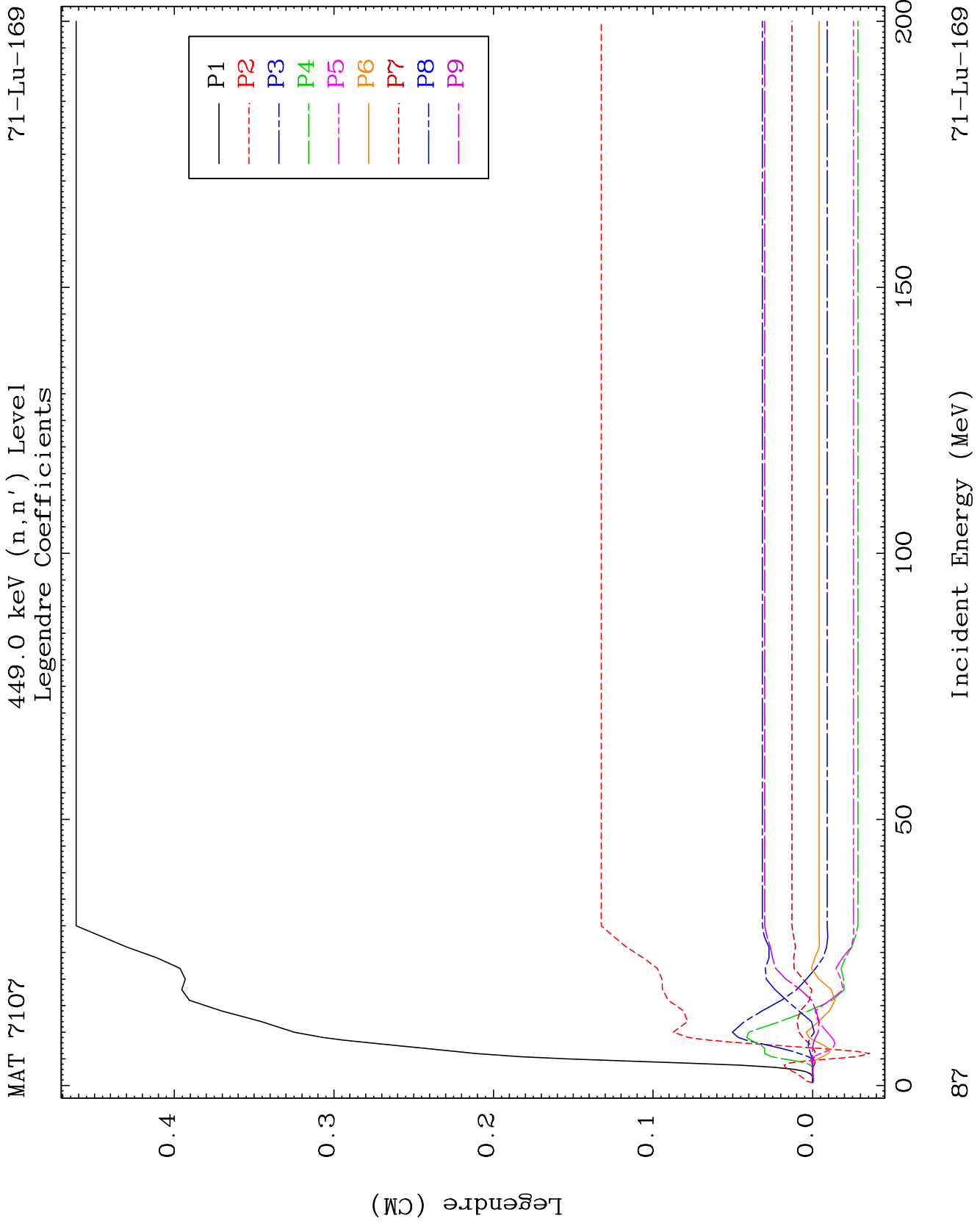


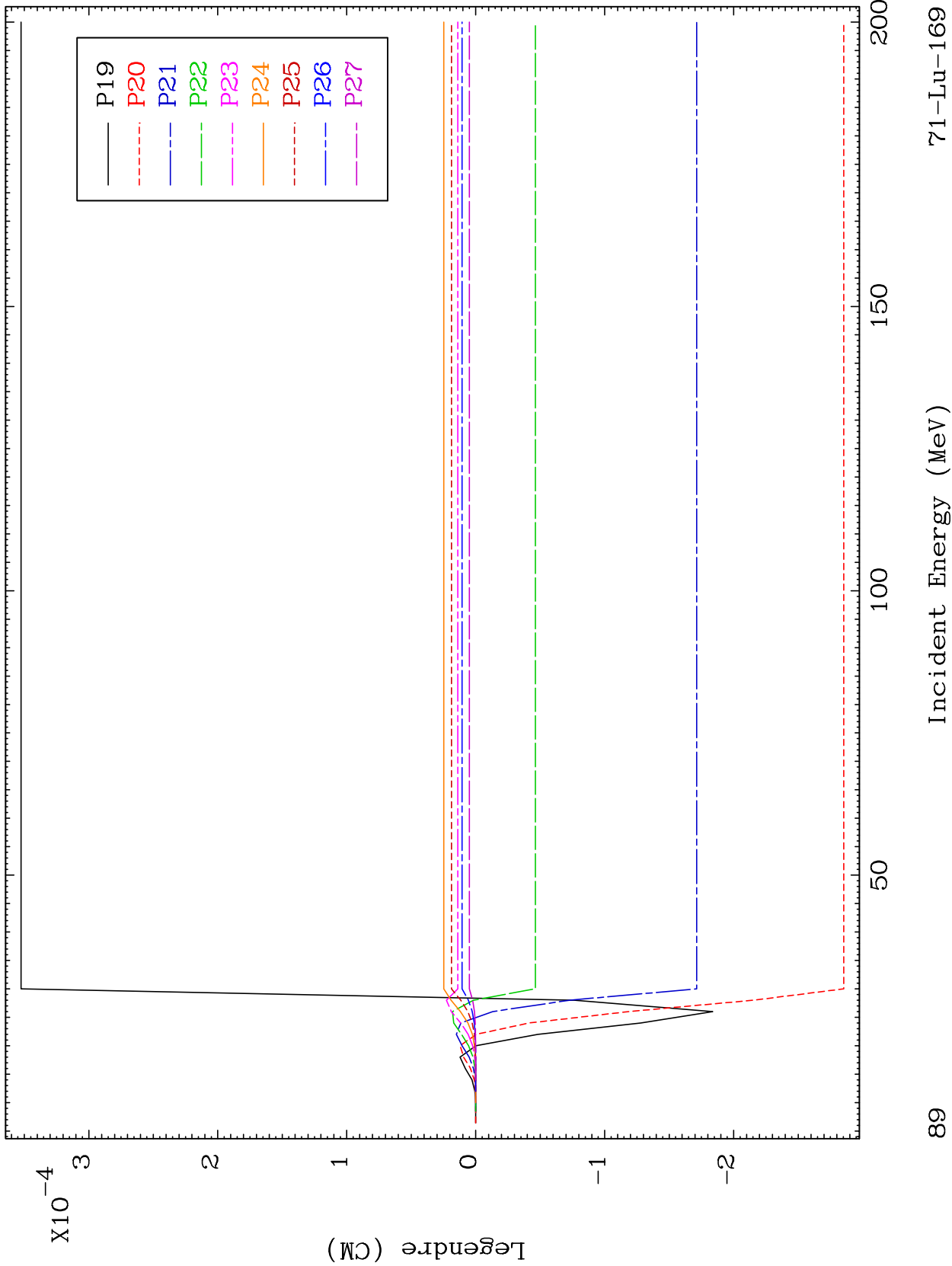


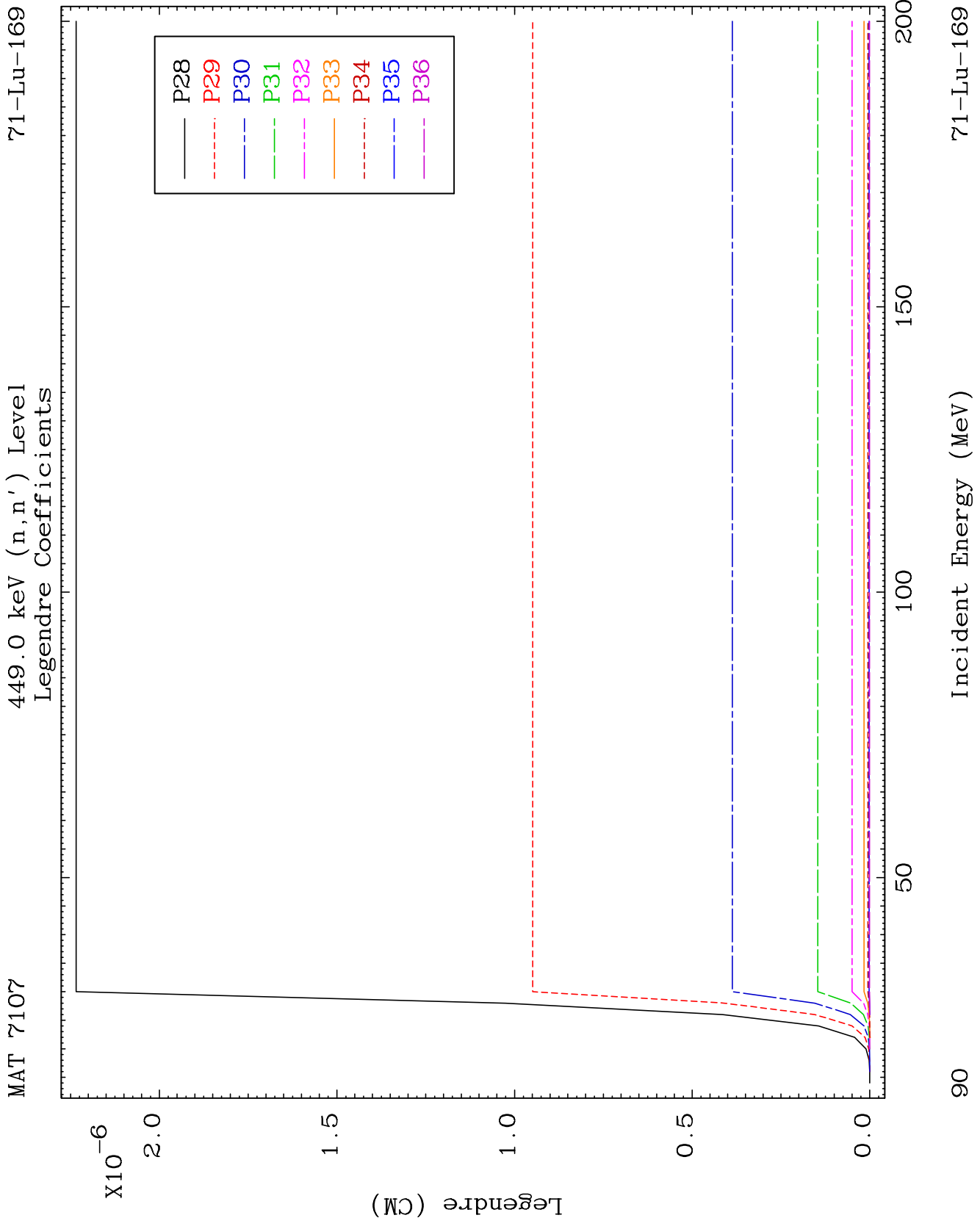


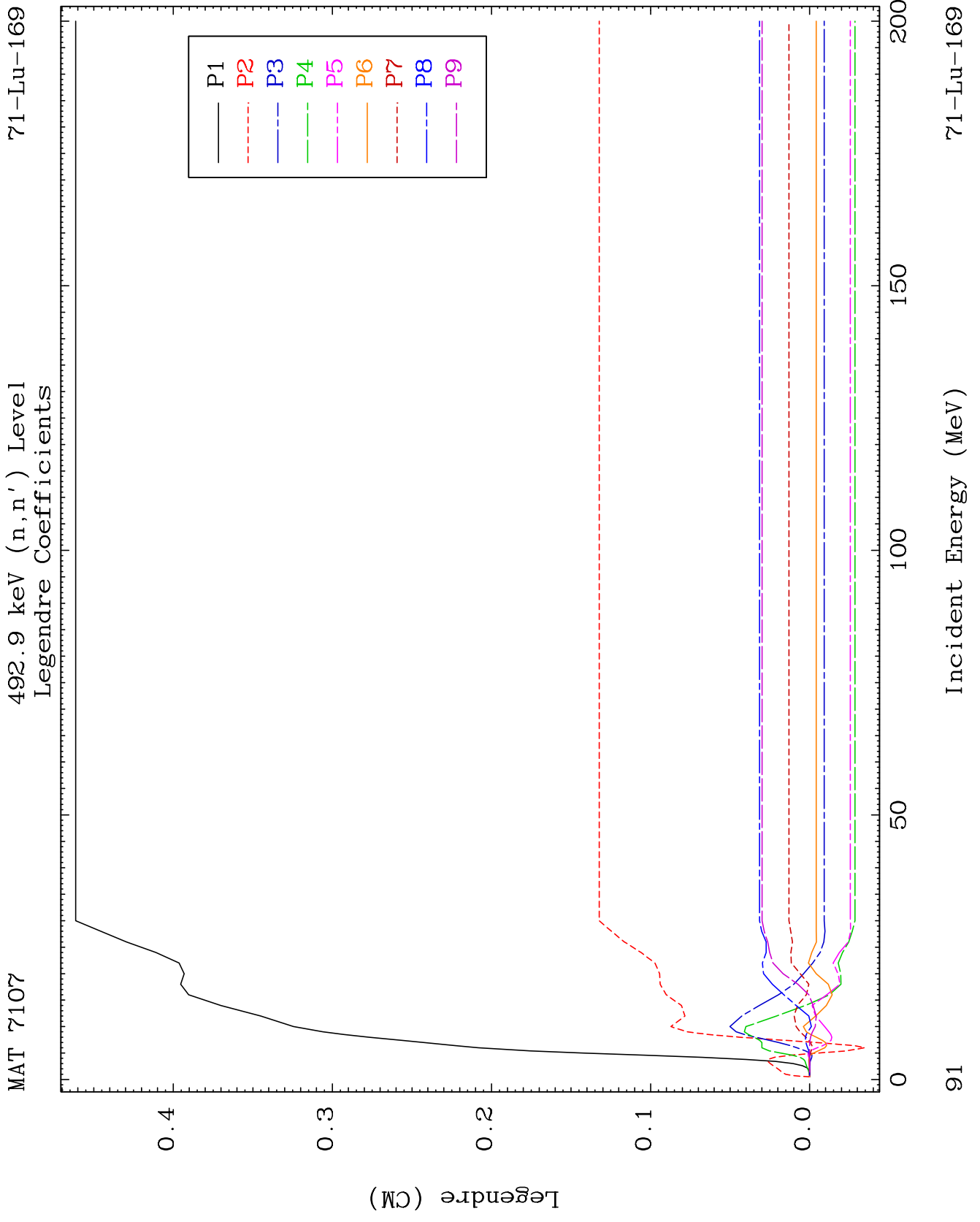


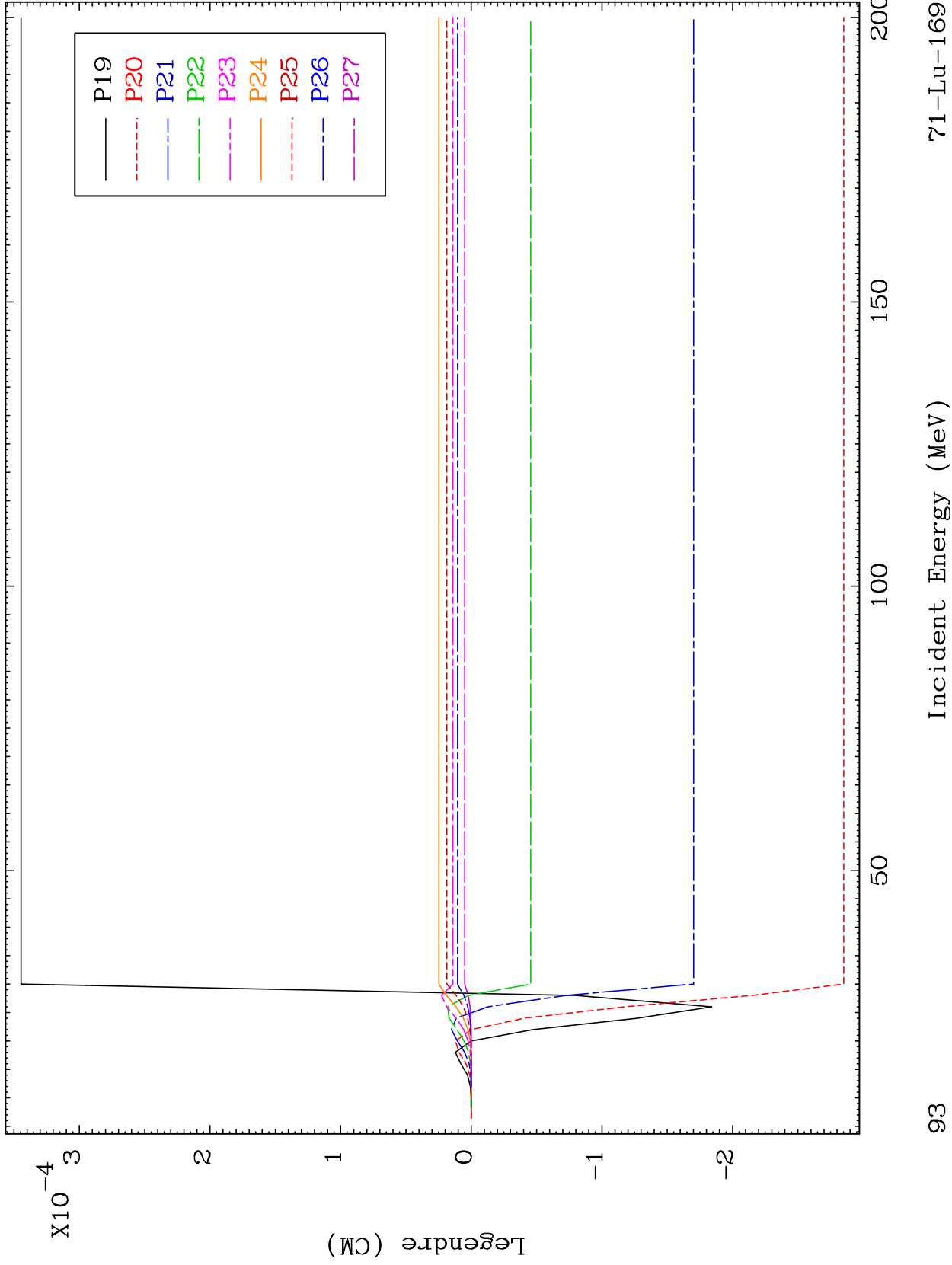


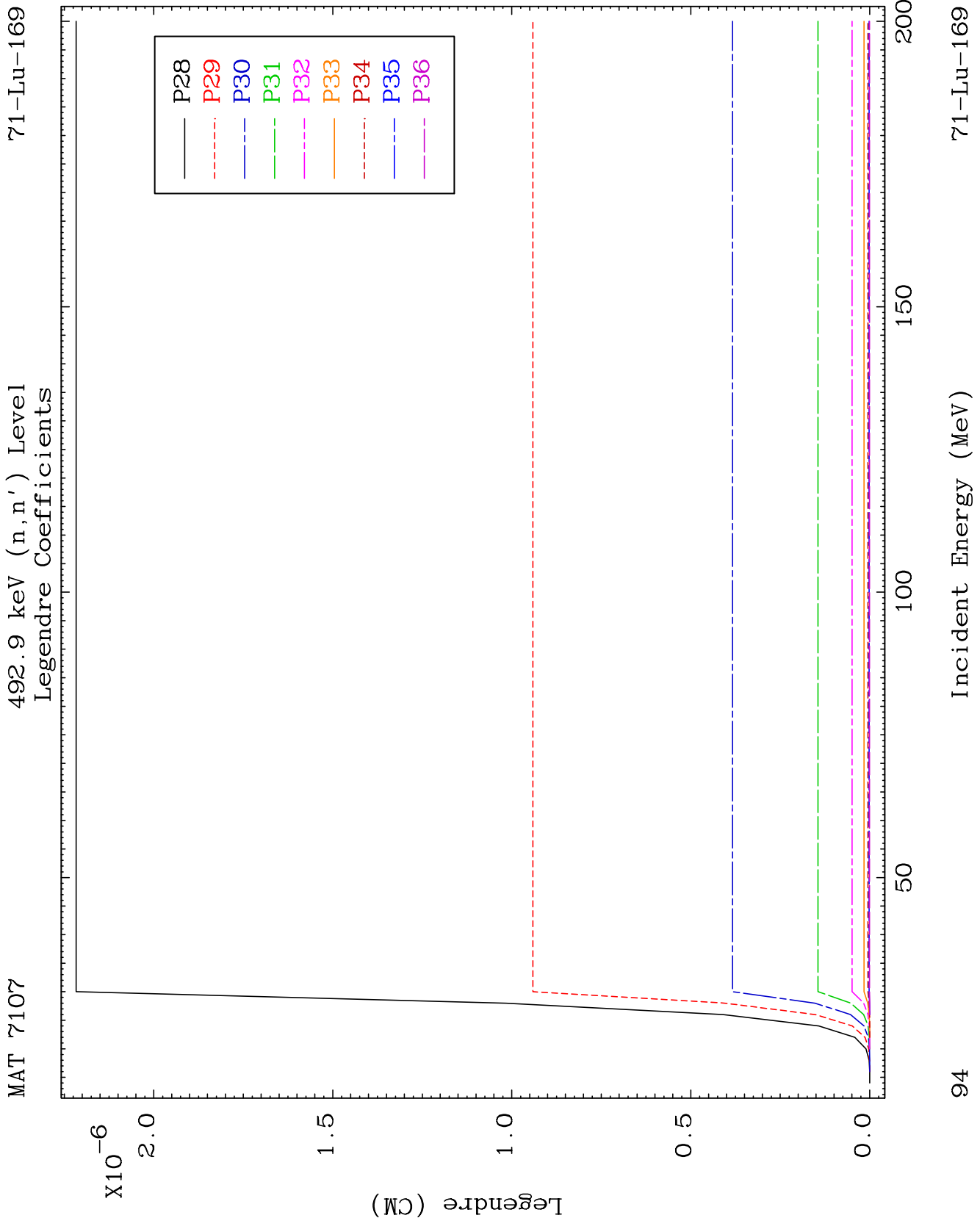


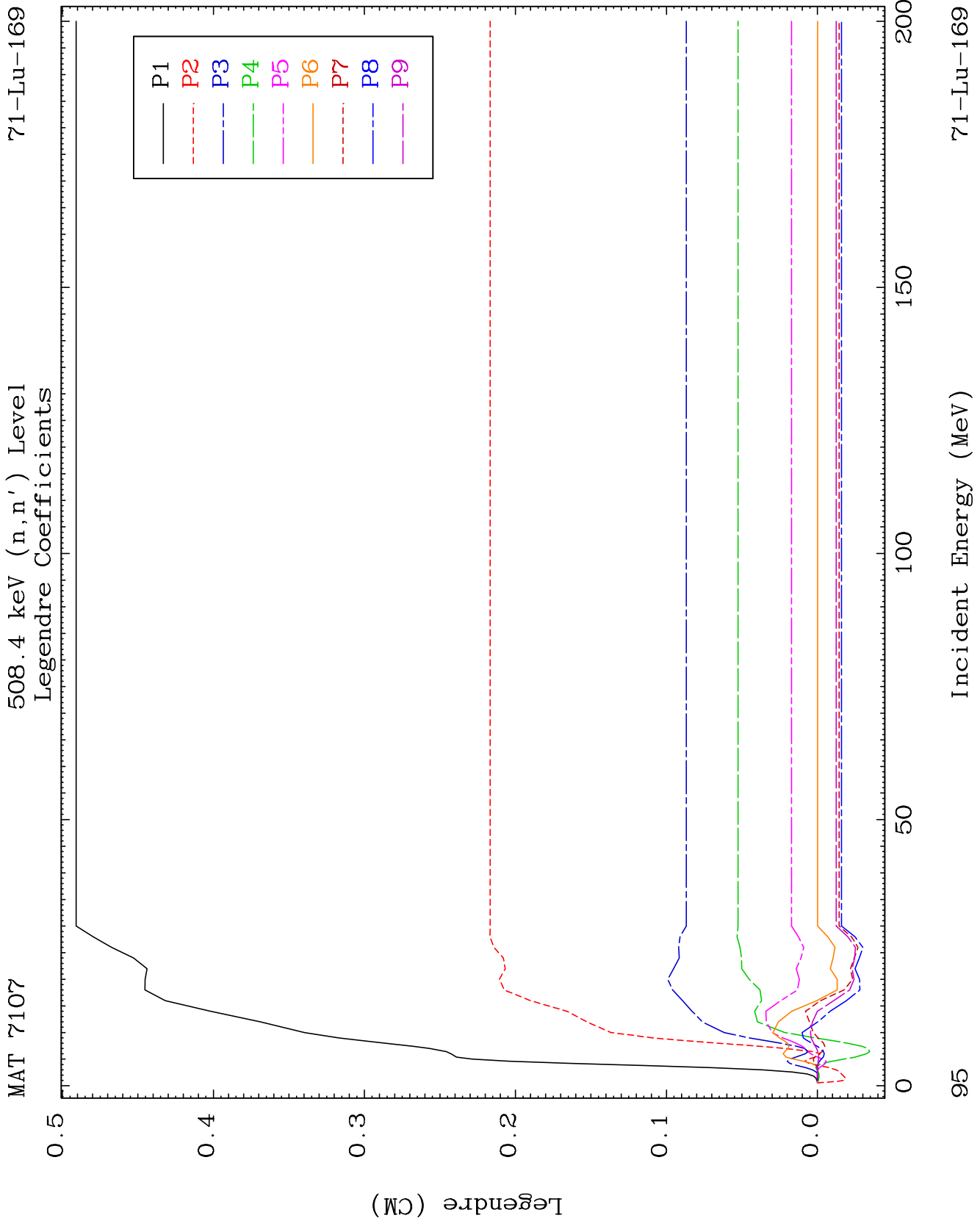


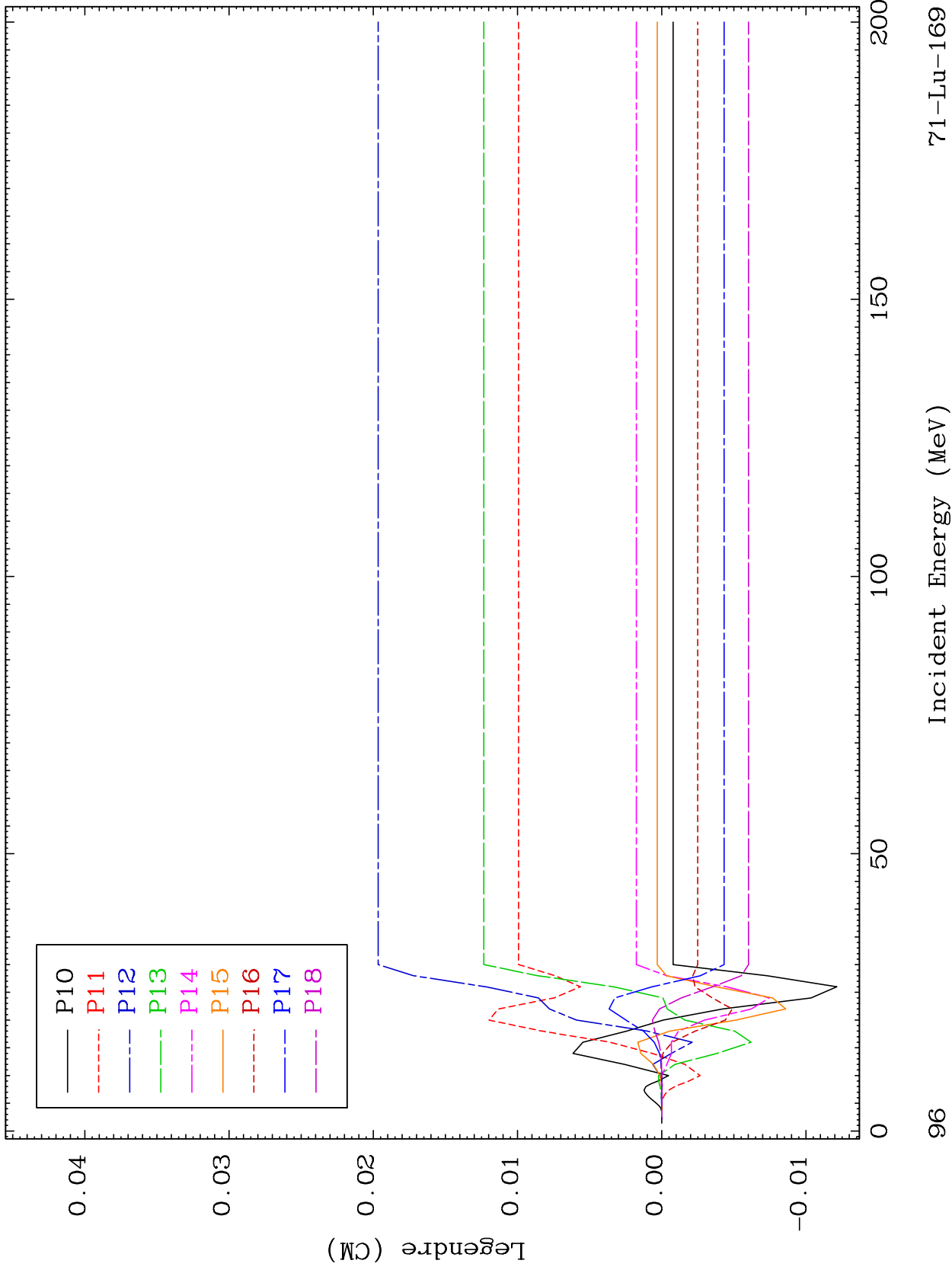


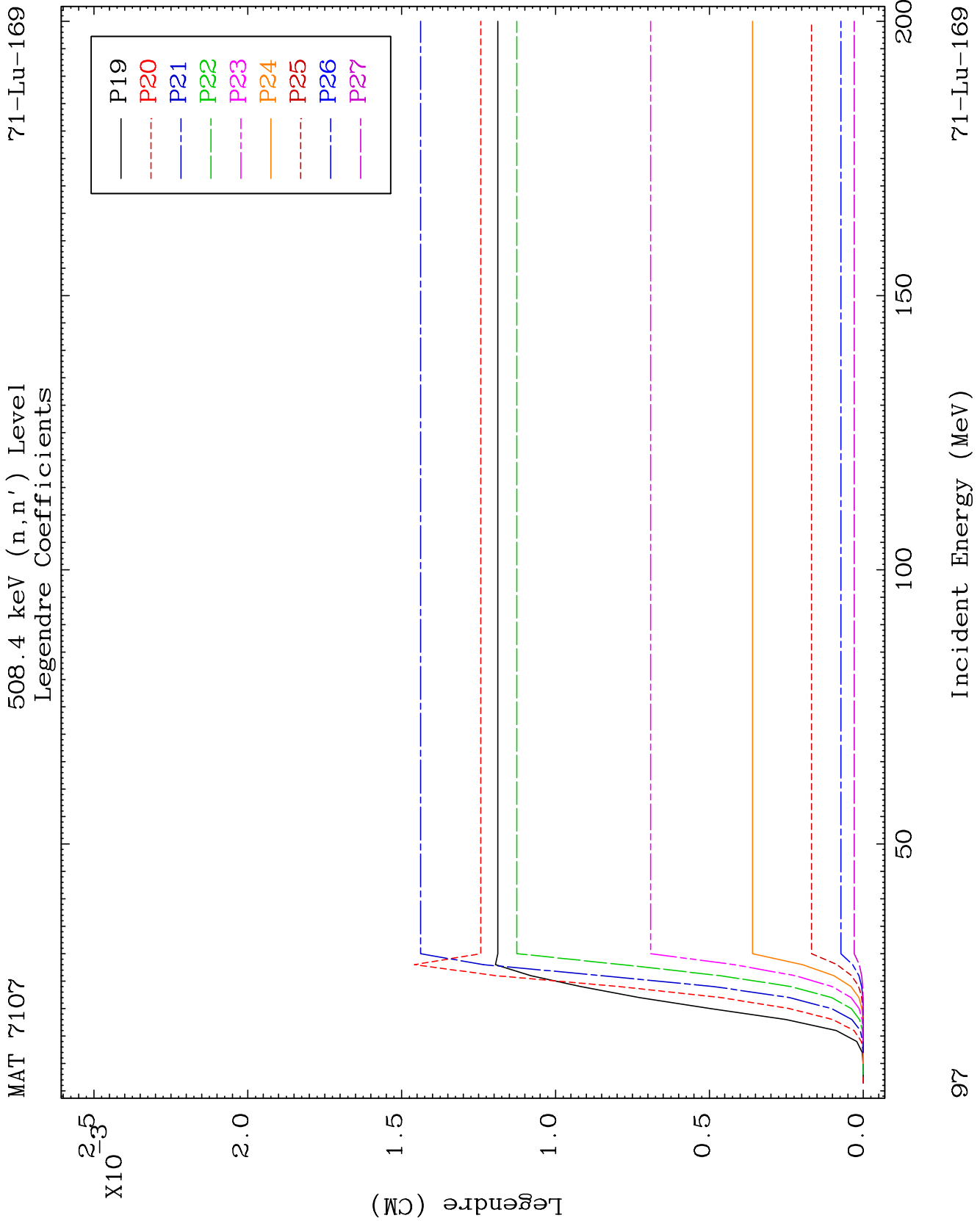








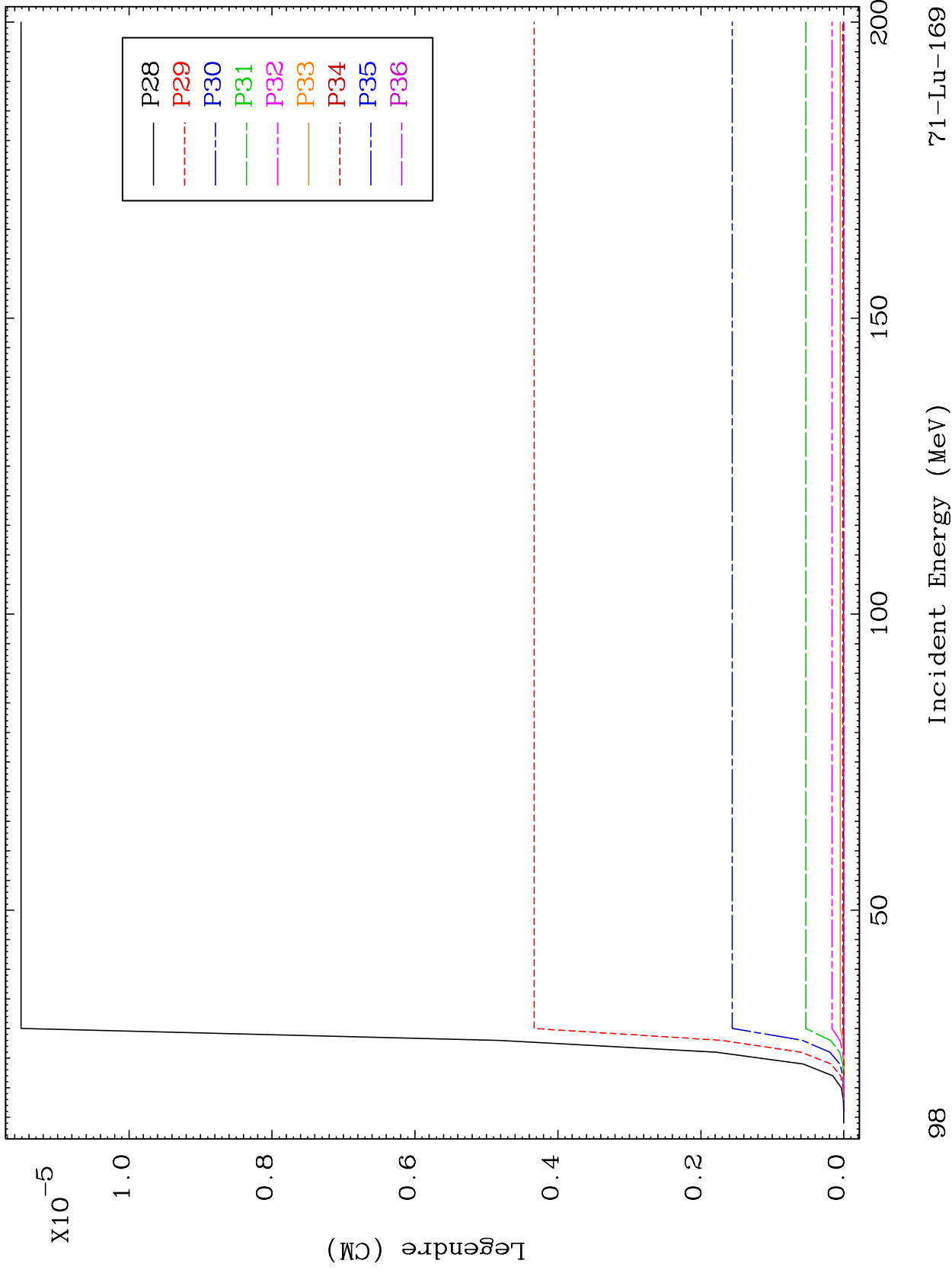




MAT 7107

508.4 keV (n,n') Level
Legendre Coefficients

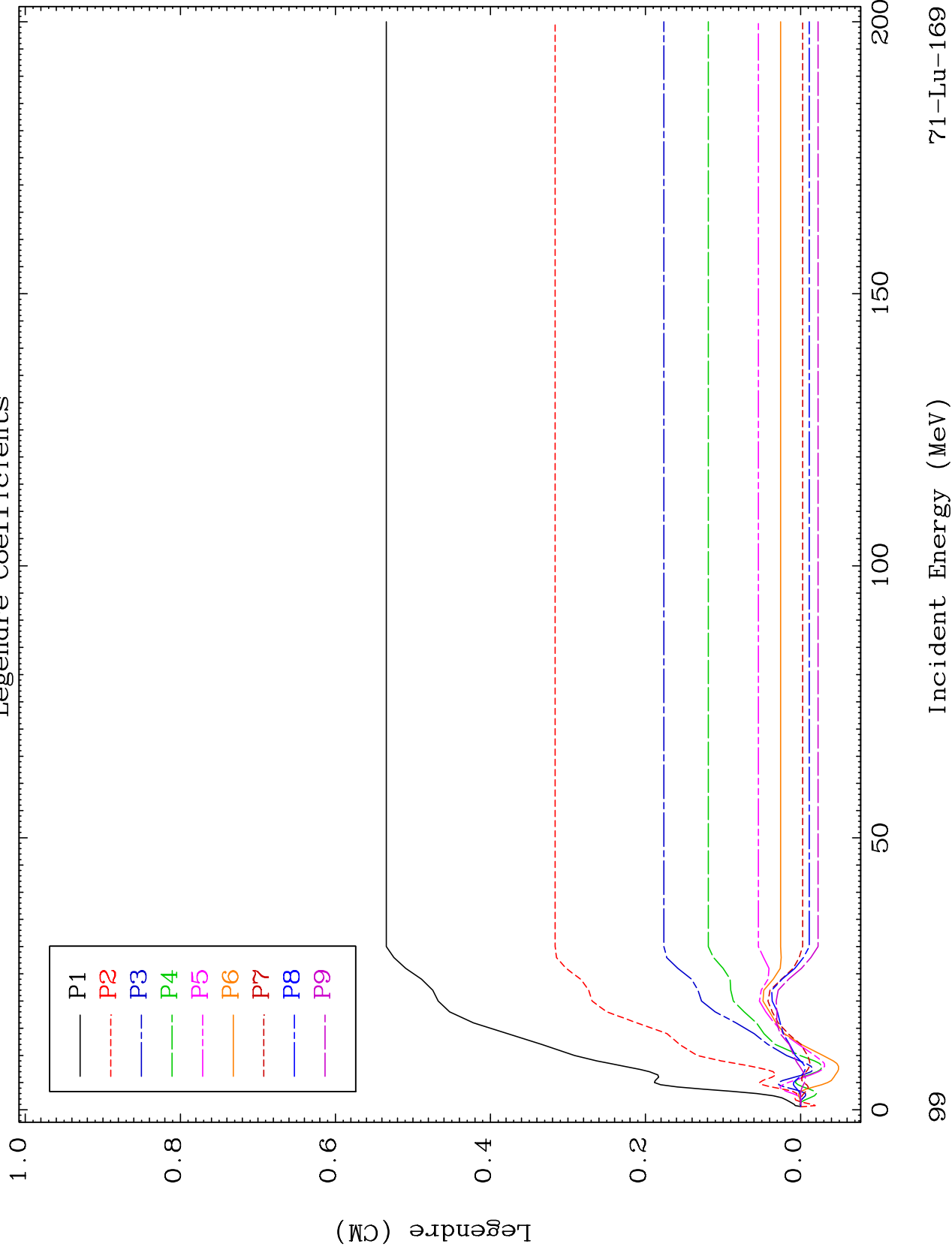
71-Lu-169



MAT 7107

546.1 keV (n, n') Level
Legendre Coefficients

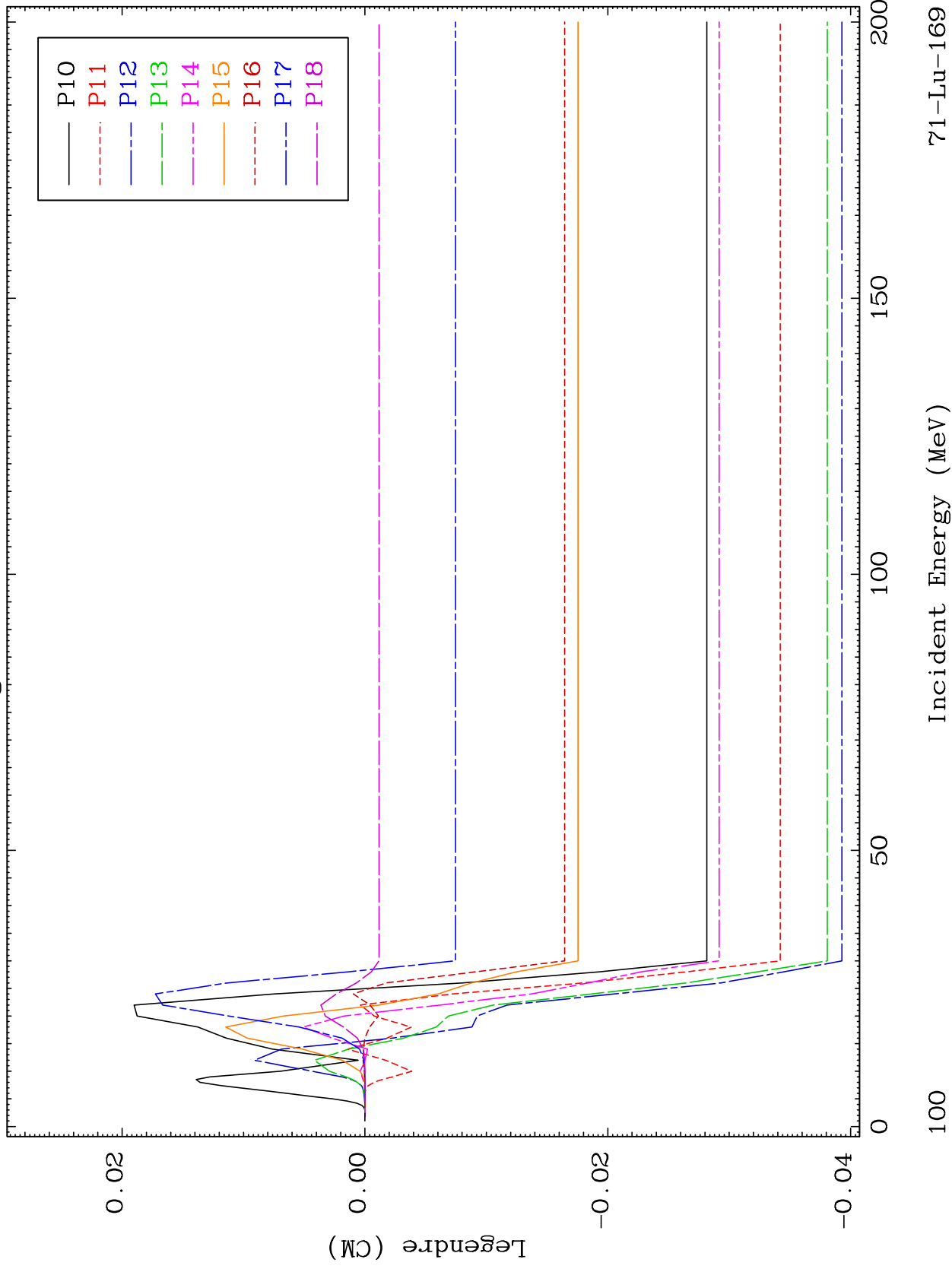
71-Lu-169



MAT 7107

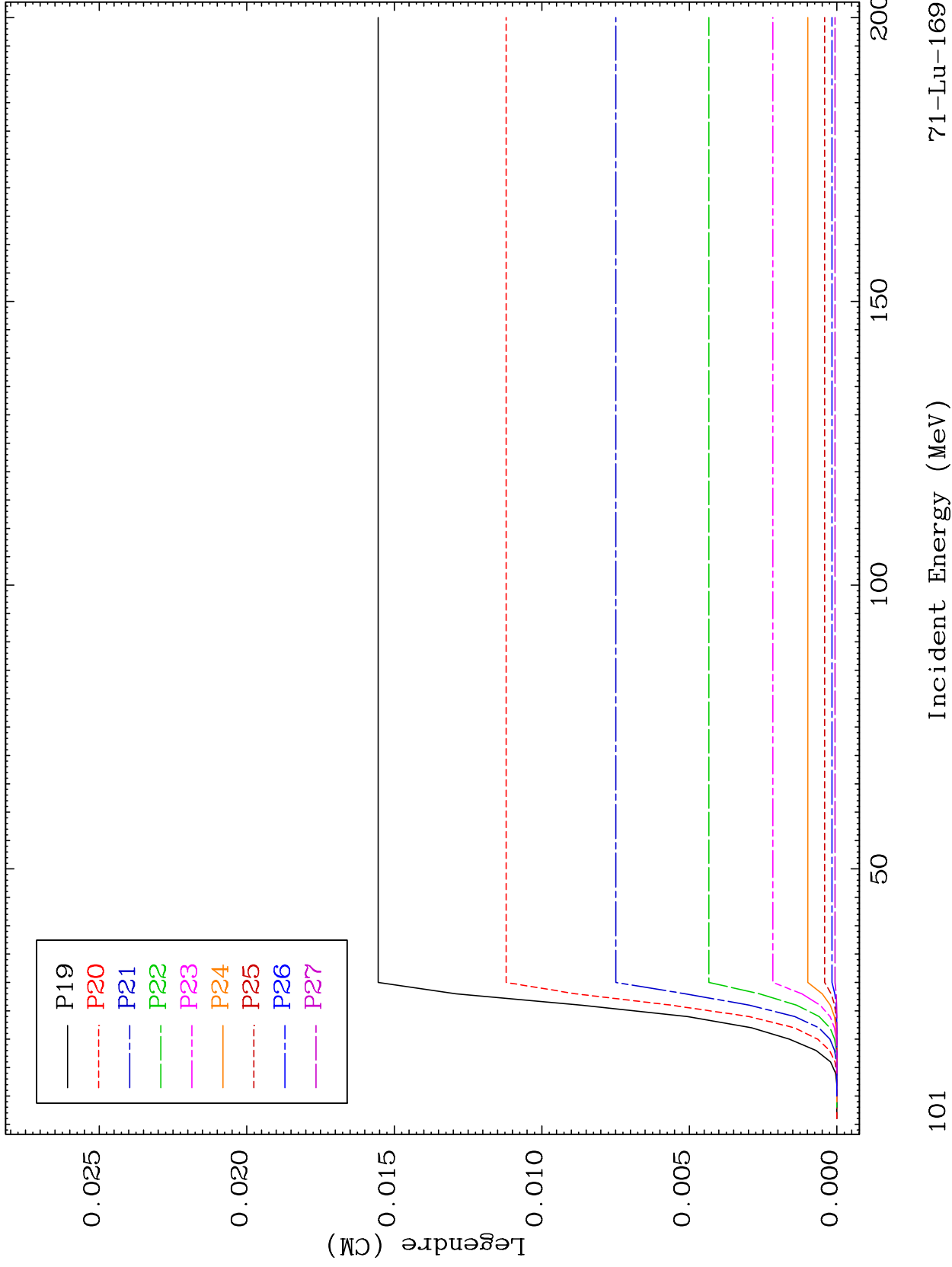
546.1 keV (n,n') Level
Legendre Coefficients

71-Lu-169



71-Lu-169

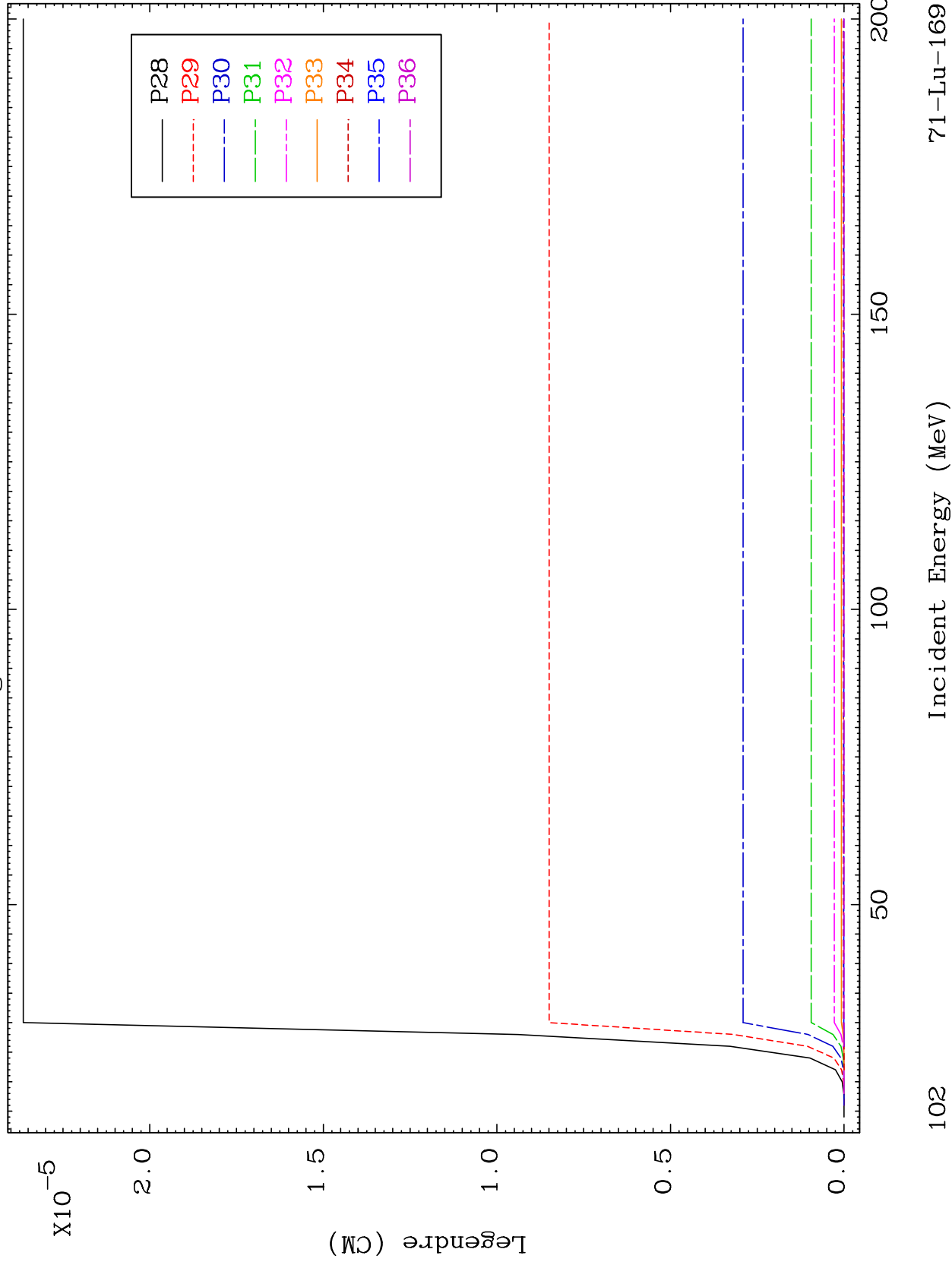
Incident Energy (MeV)



MAT 7107

546.1 keV (n,n') Level
Legendre Coefficients

71-Lu-169

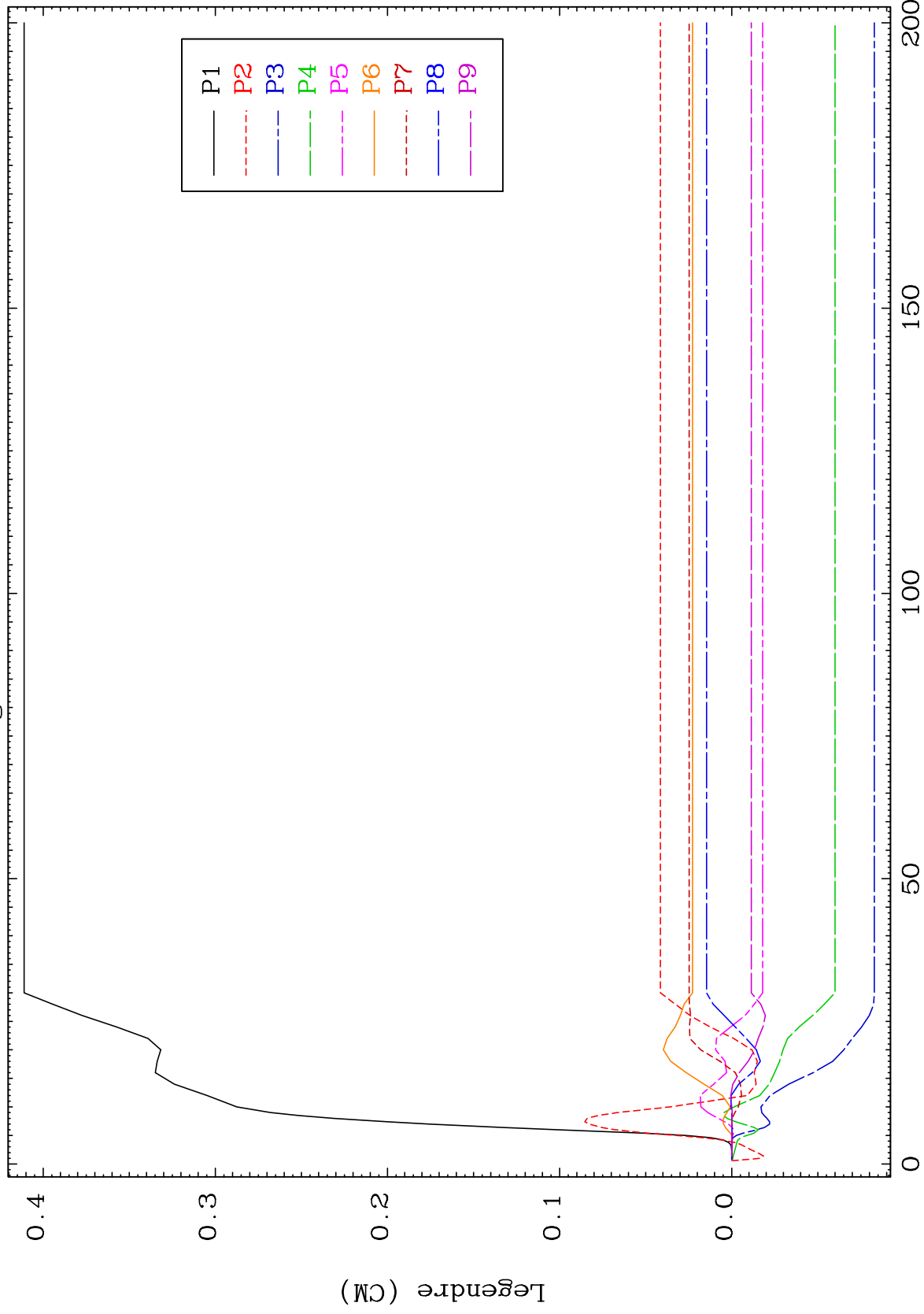


102

MAT 7107

568.4 keV (n,n') Level
Legendre Coefficients

71-Lu-169



103

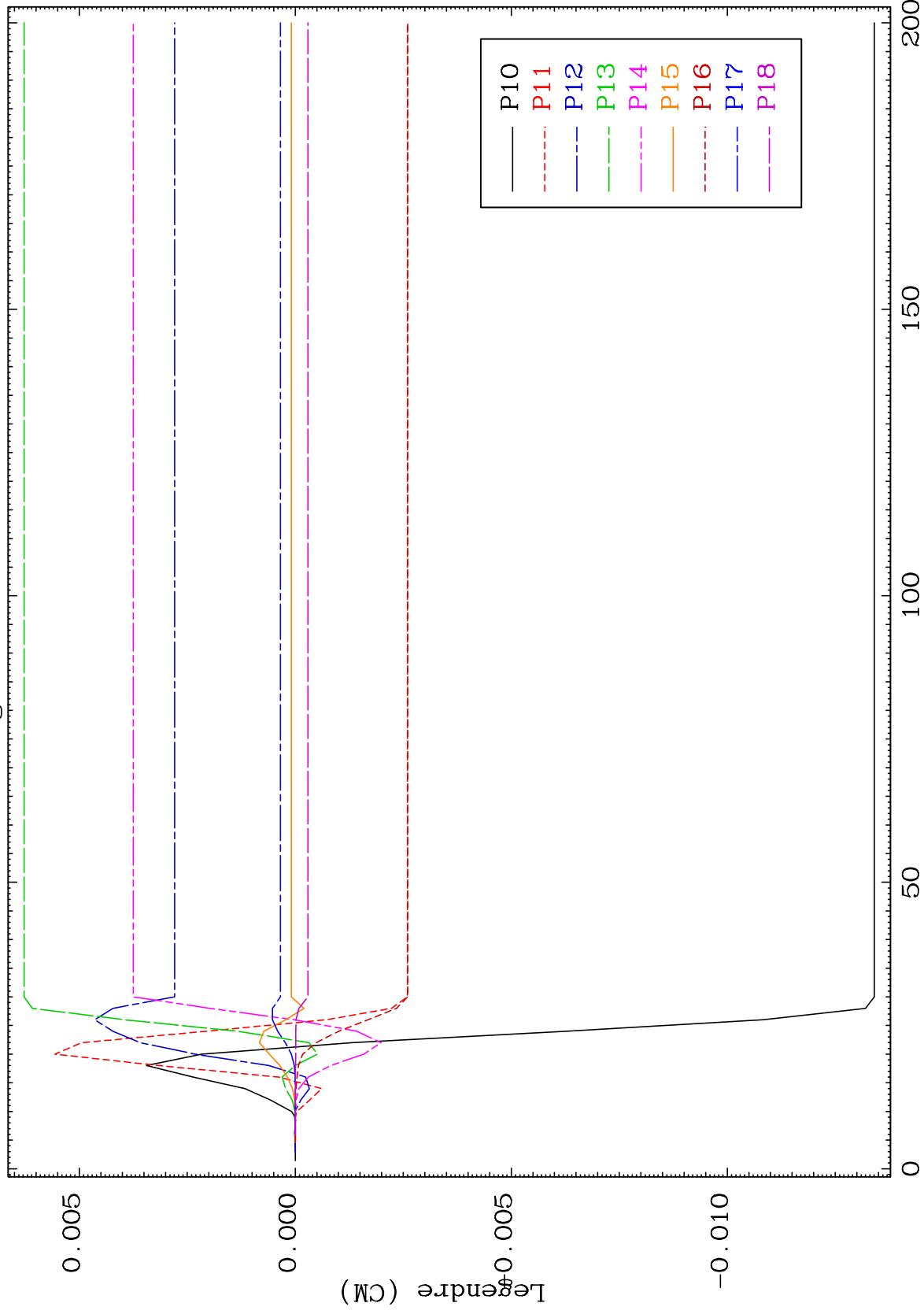
Incident Energy (MeV)

71-Lu-169

MAT 7107

568.4 keV (n,n') Level
Legendre Coefficients

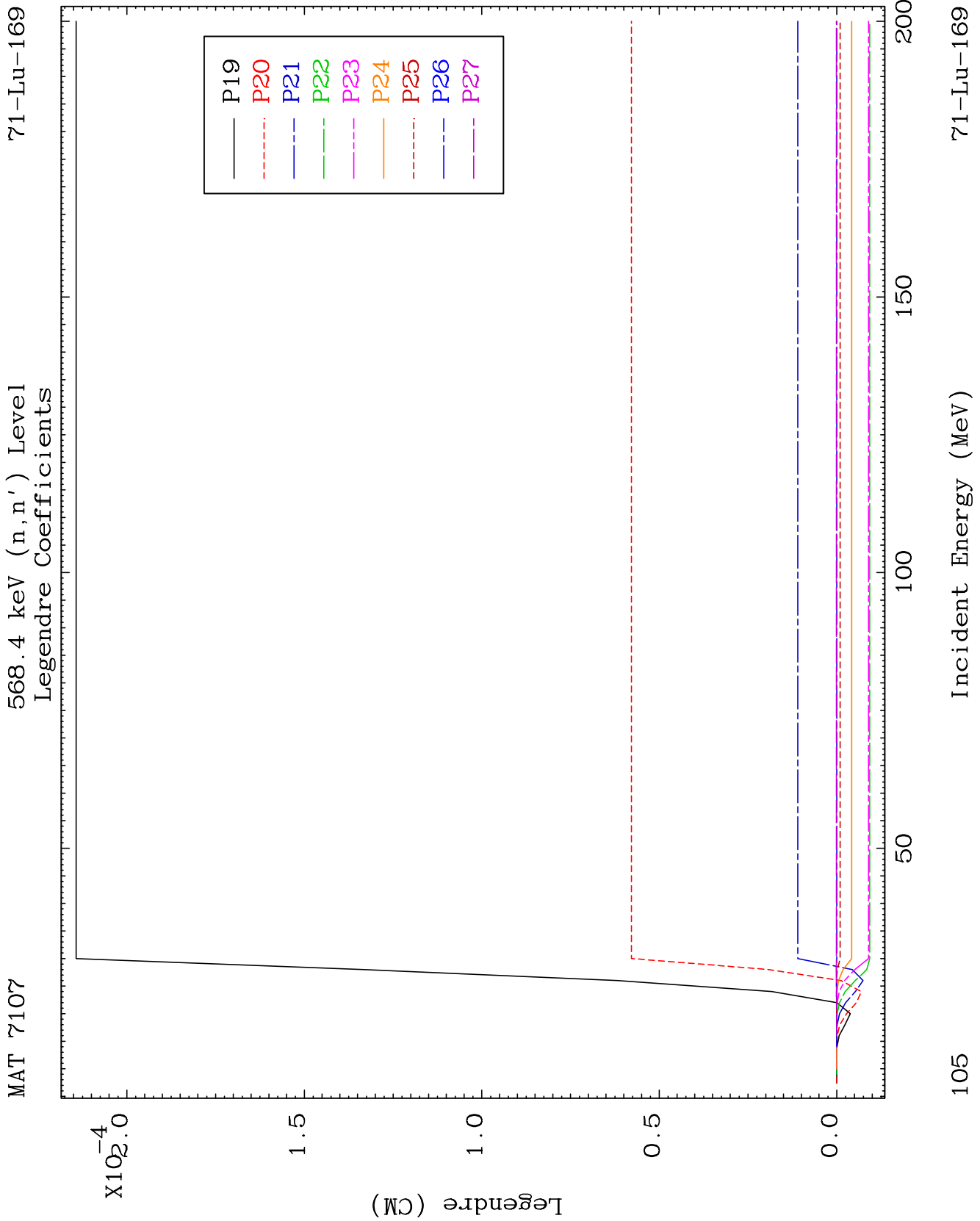
71-Lu-169

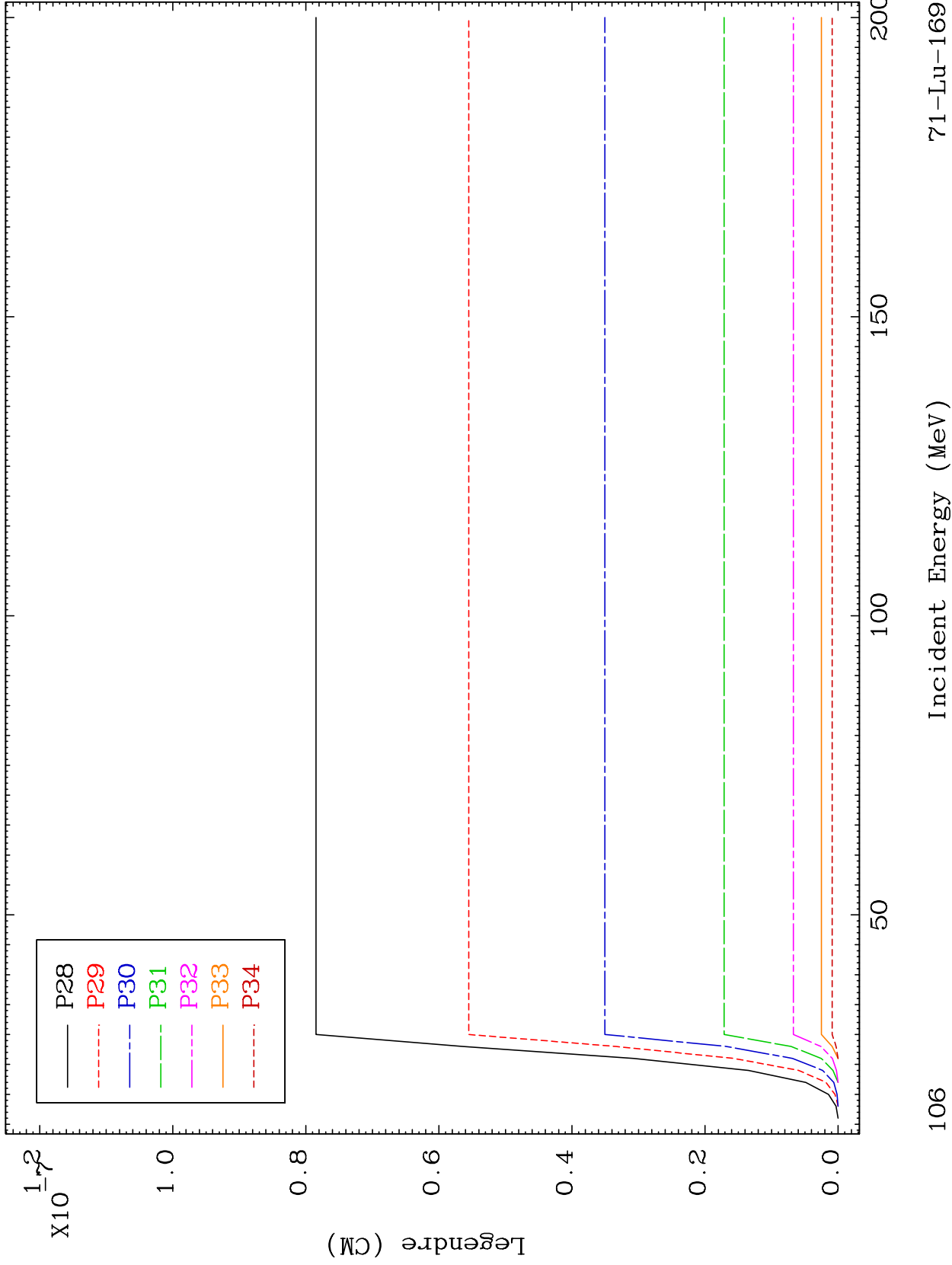


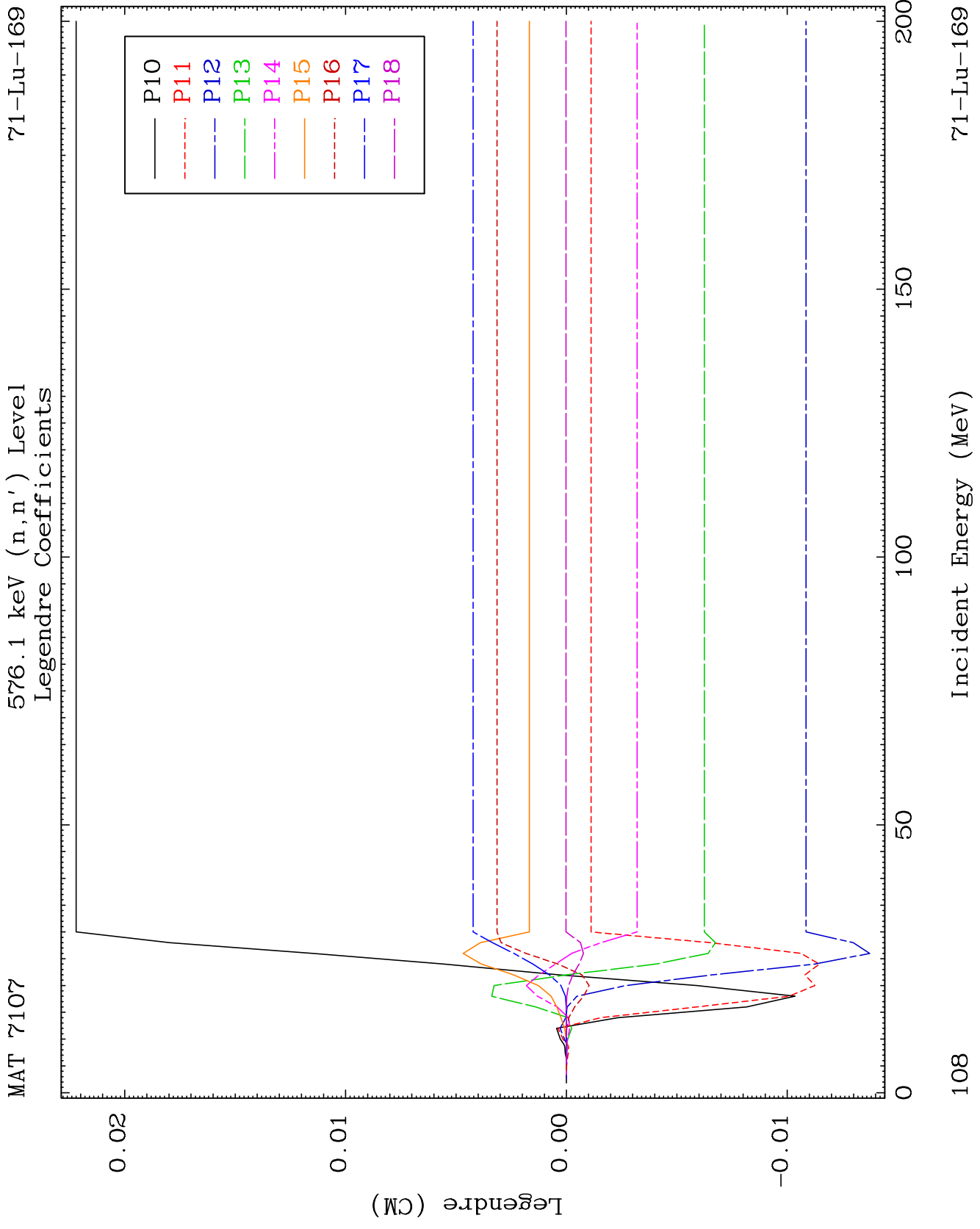
104

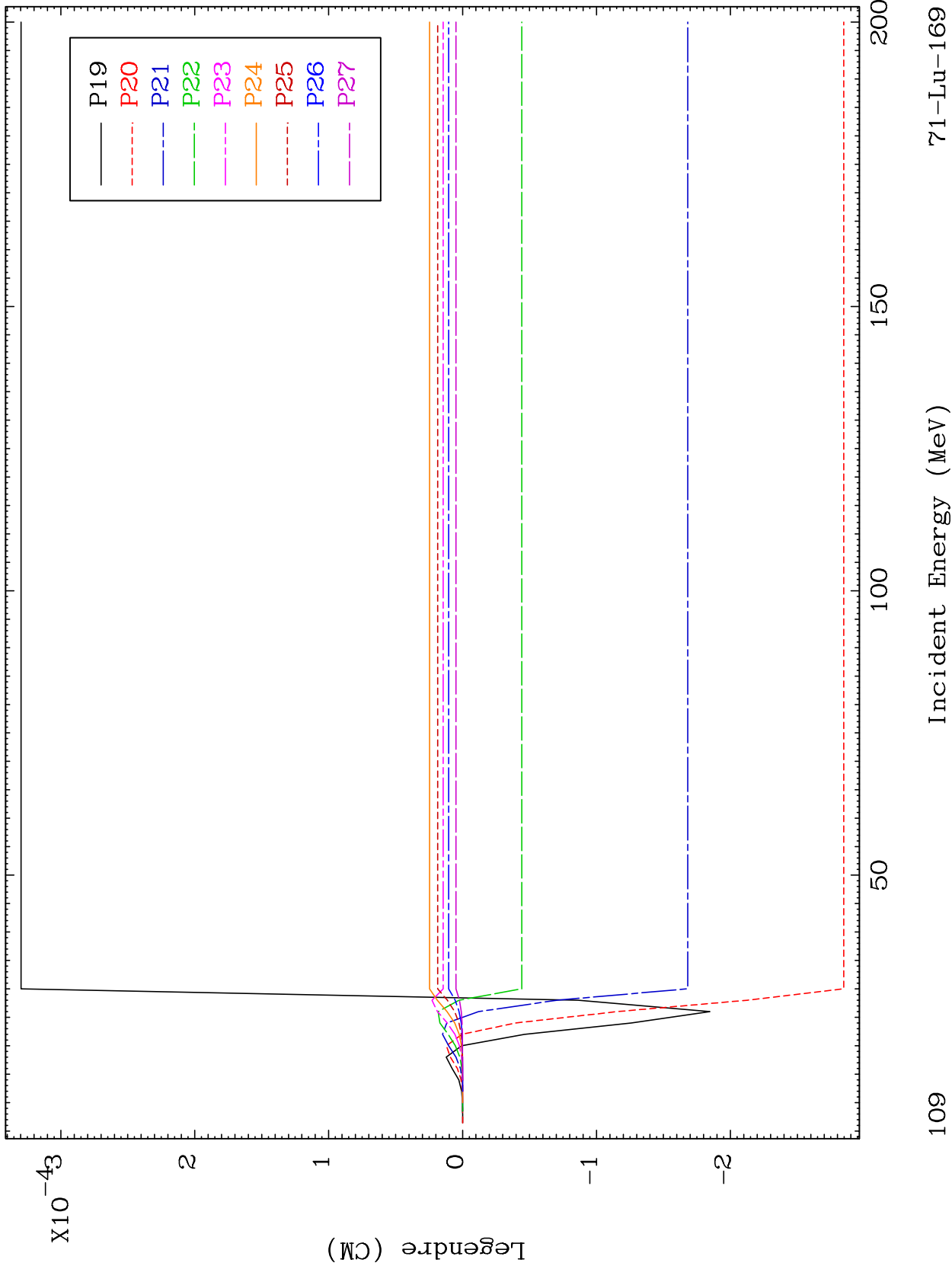
Incident Energy (MeV)

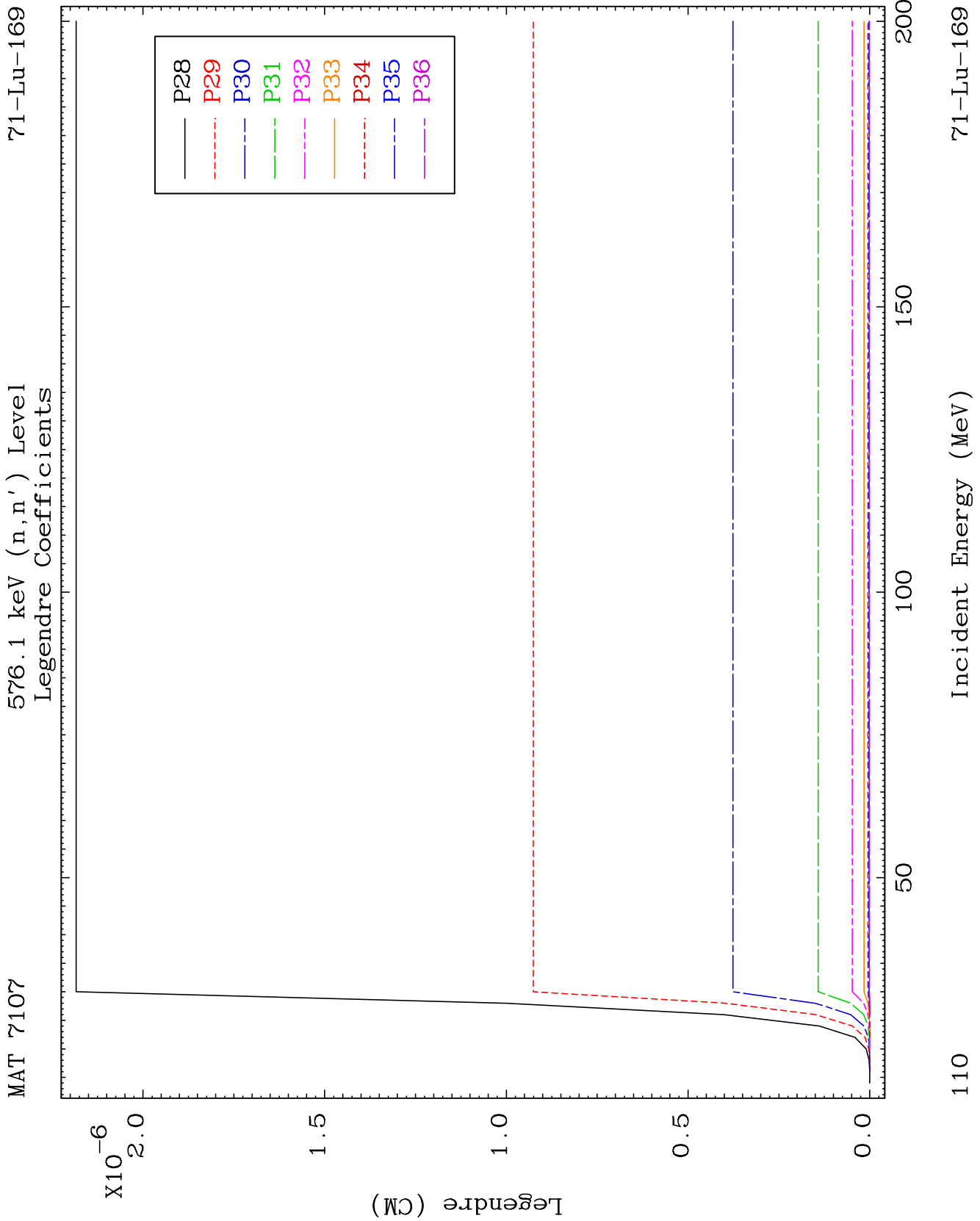
71-Lu-169







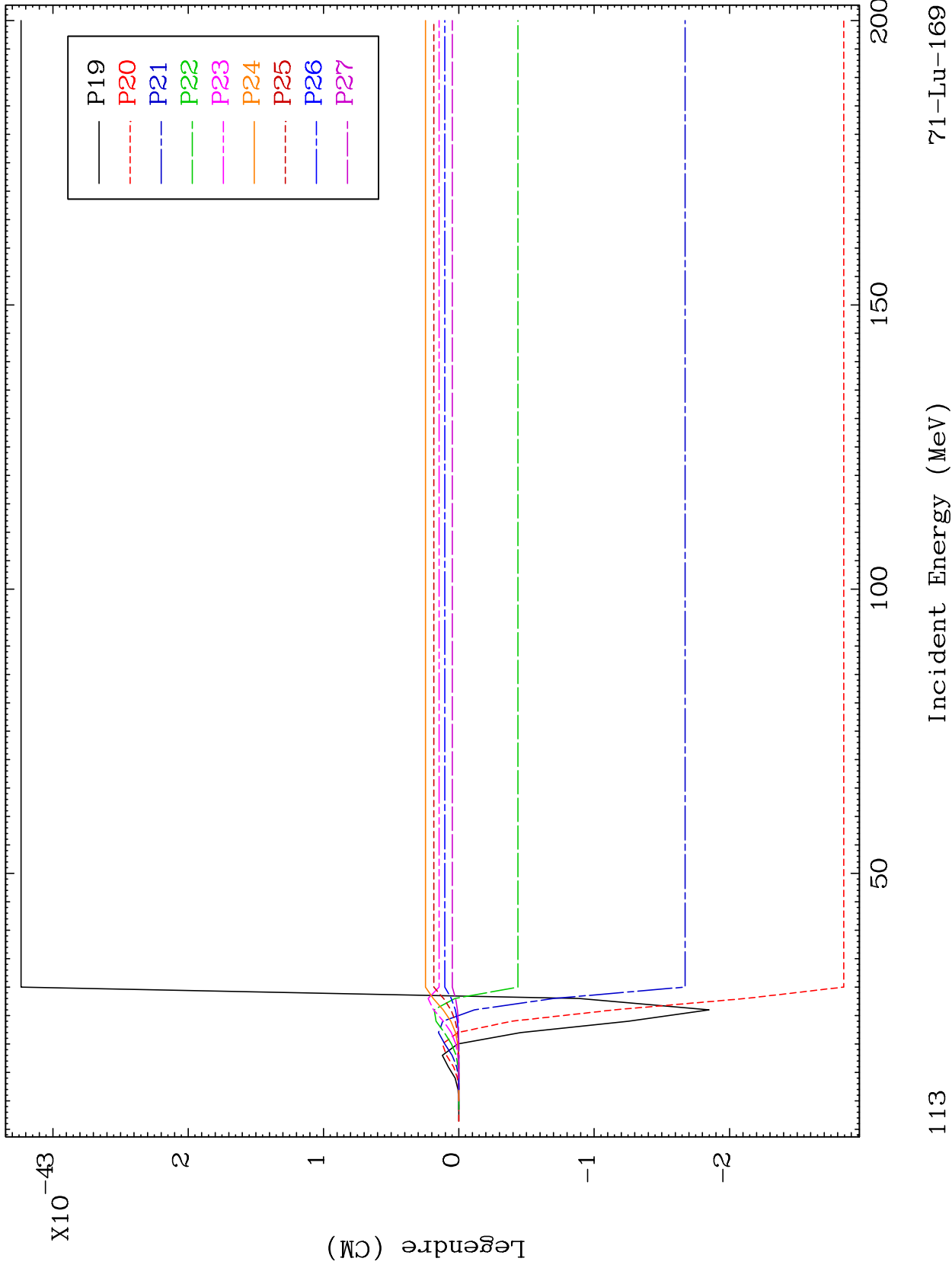




MAT 7107

610.8 keV (n,n') Level
Legendre Coefficients

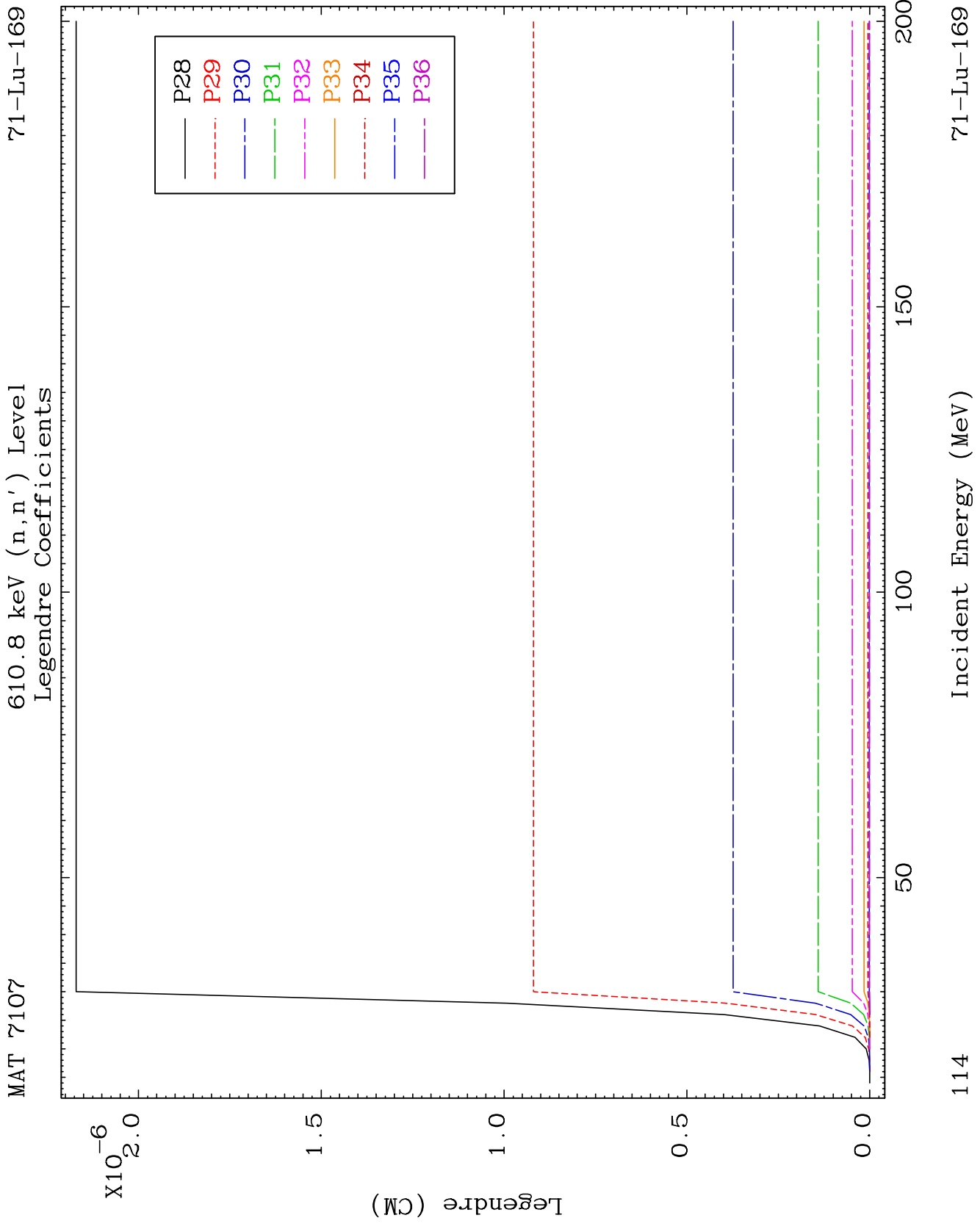
71-Lu-169

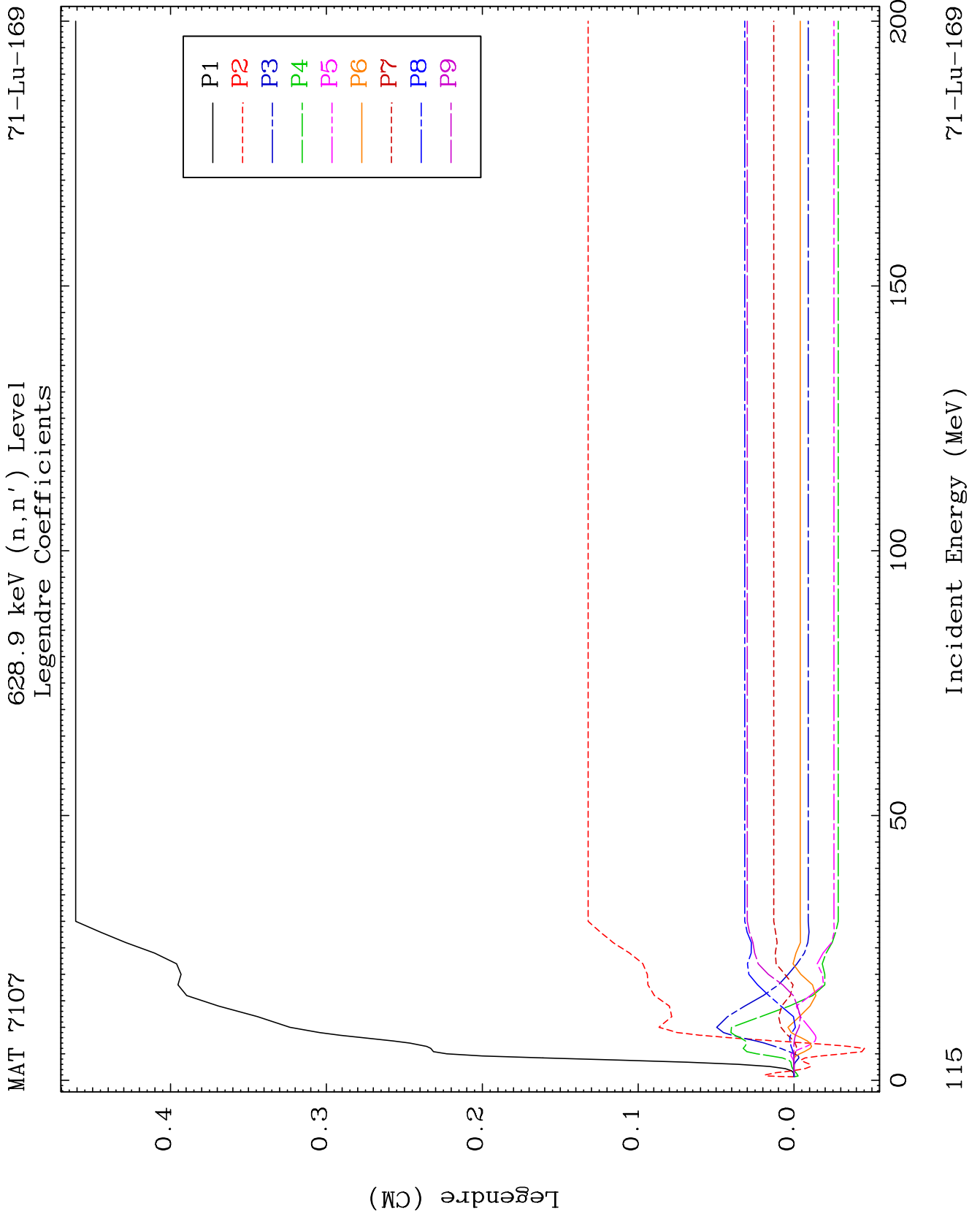


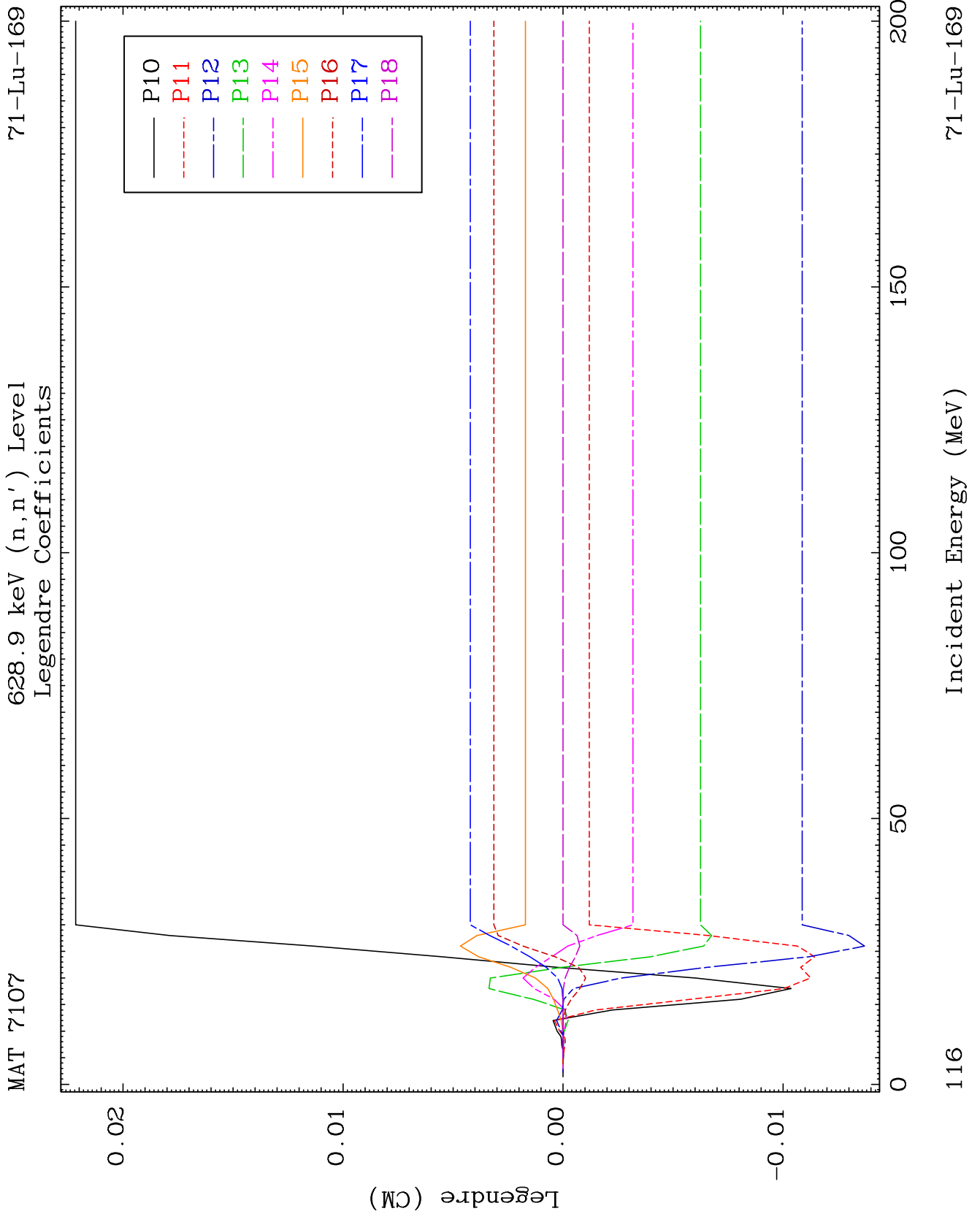
113

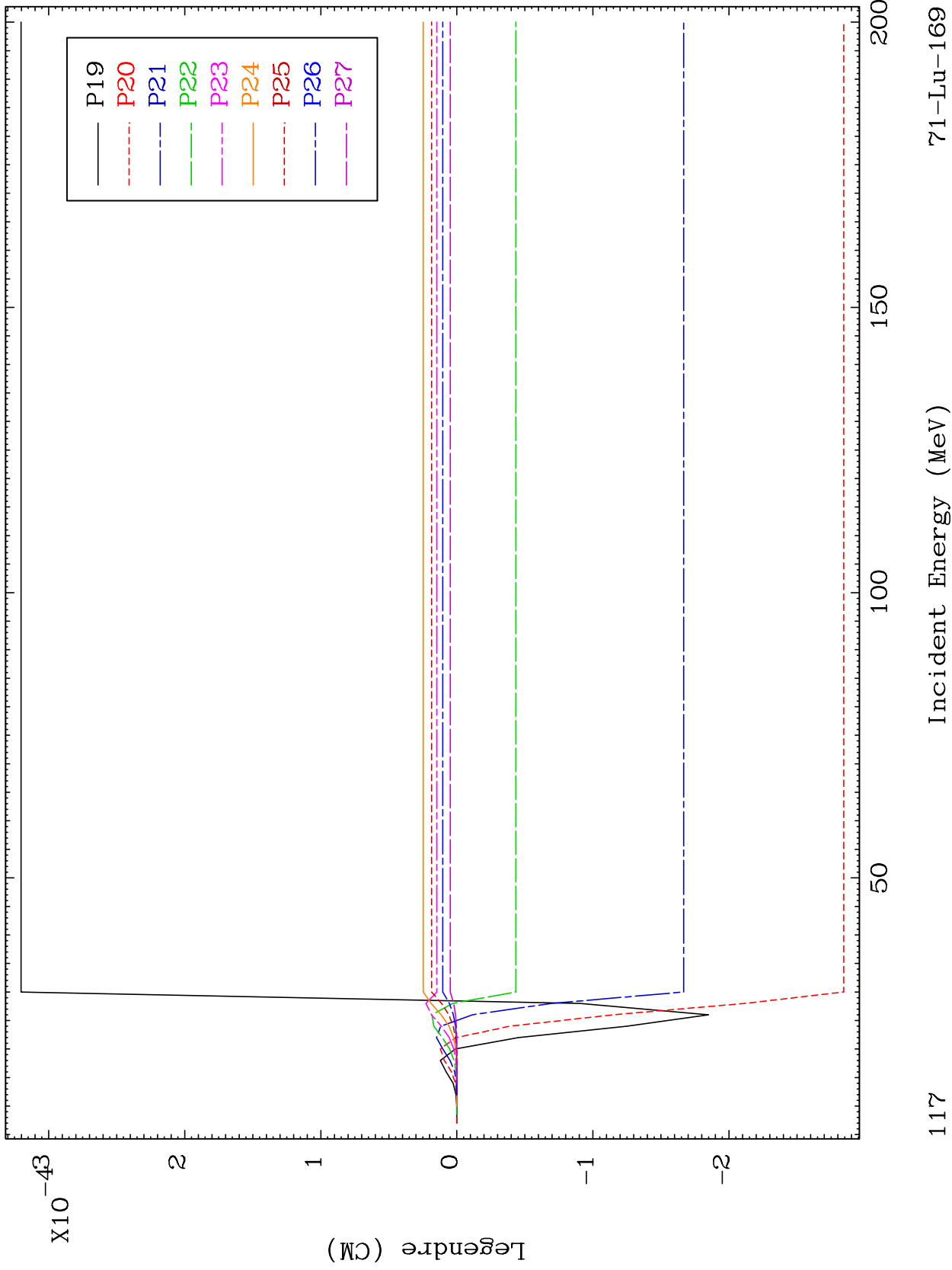
Incident Energy (MeV)

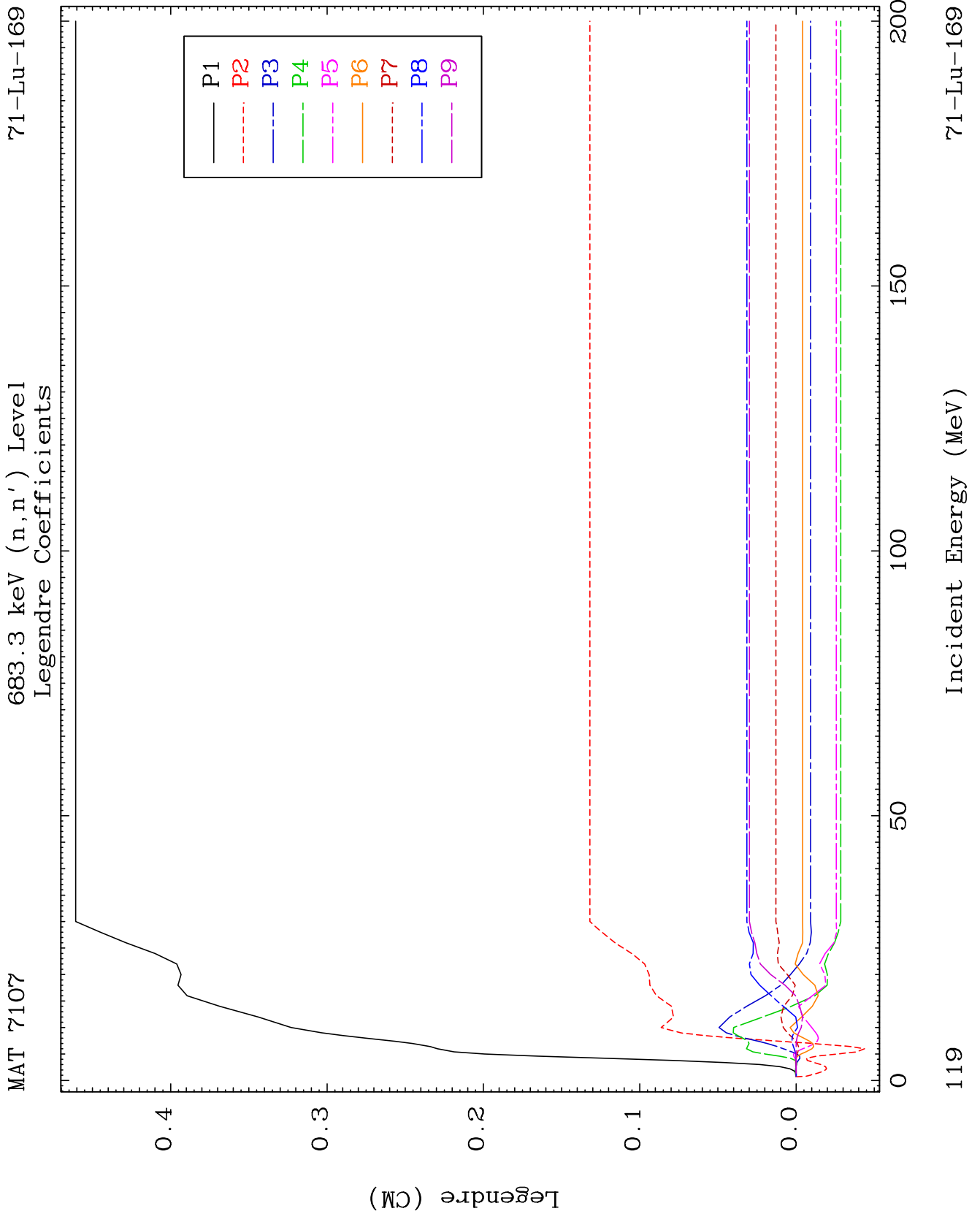
71-Lu-169







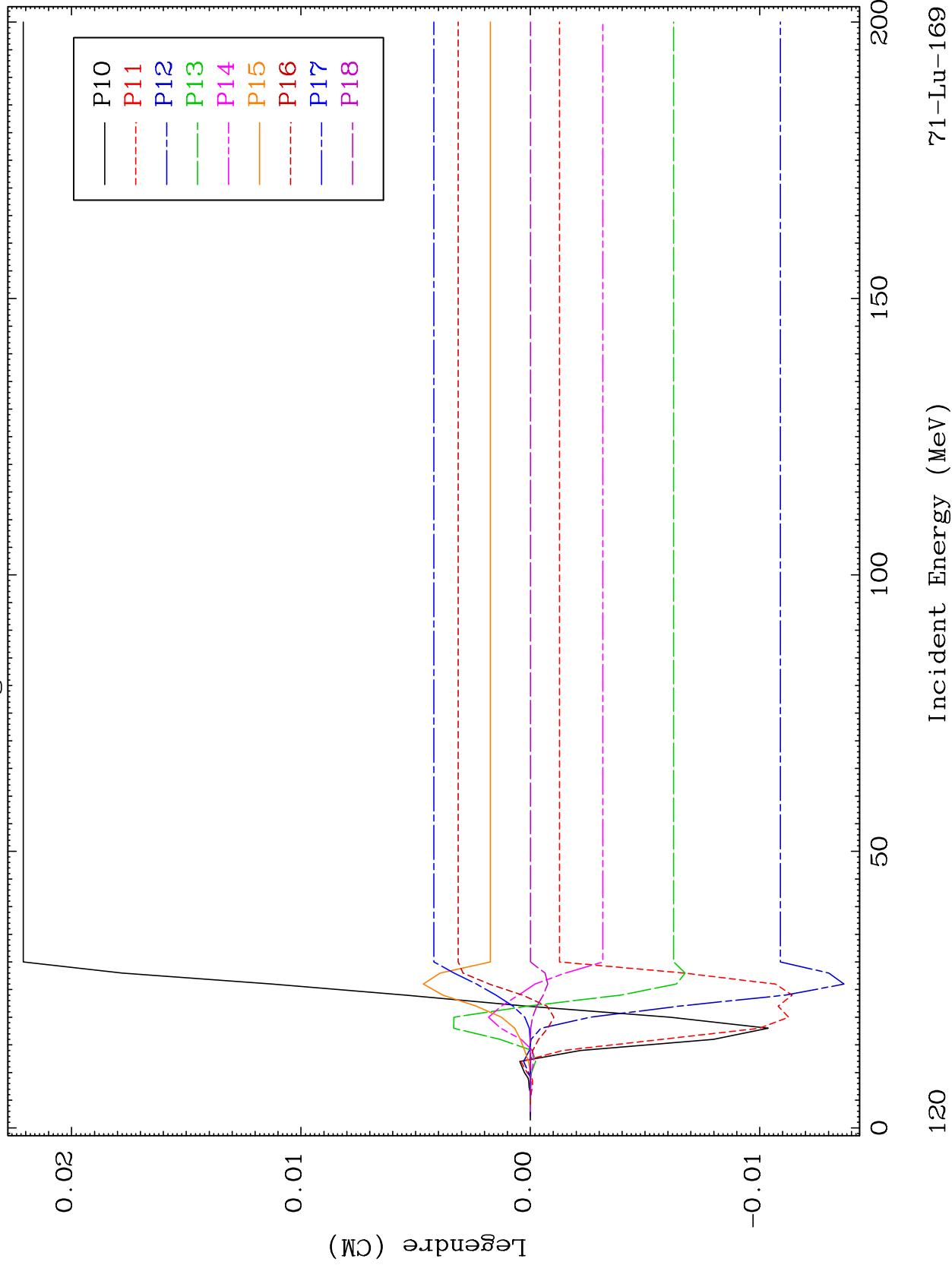




MAT 7107

683.3 keV (n,n') Level
Legendre Coefficients

71-Lu-169



71-Lu-169

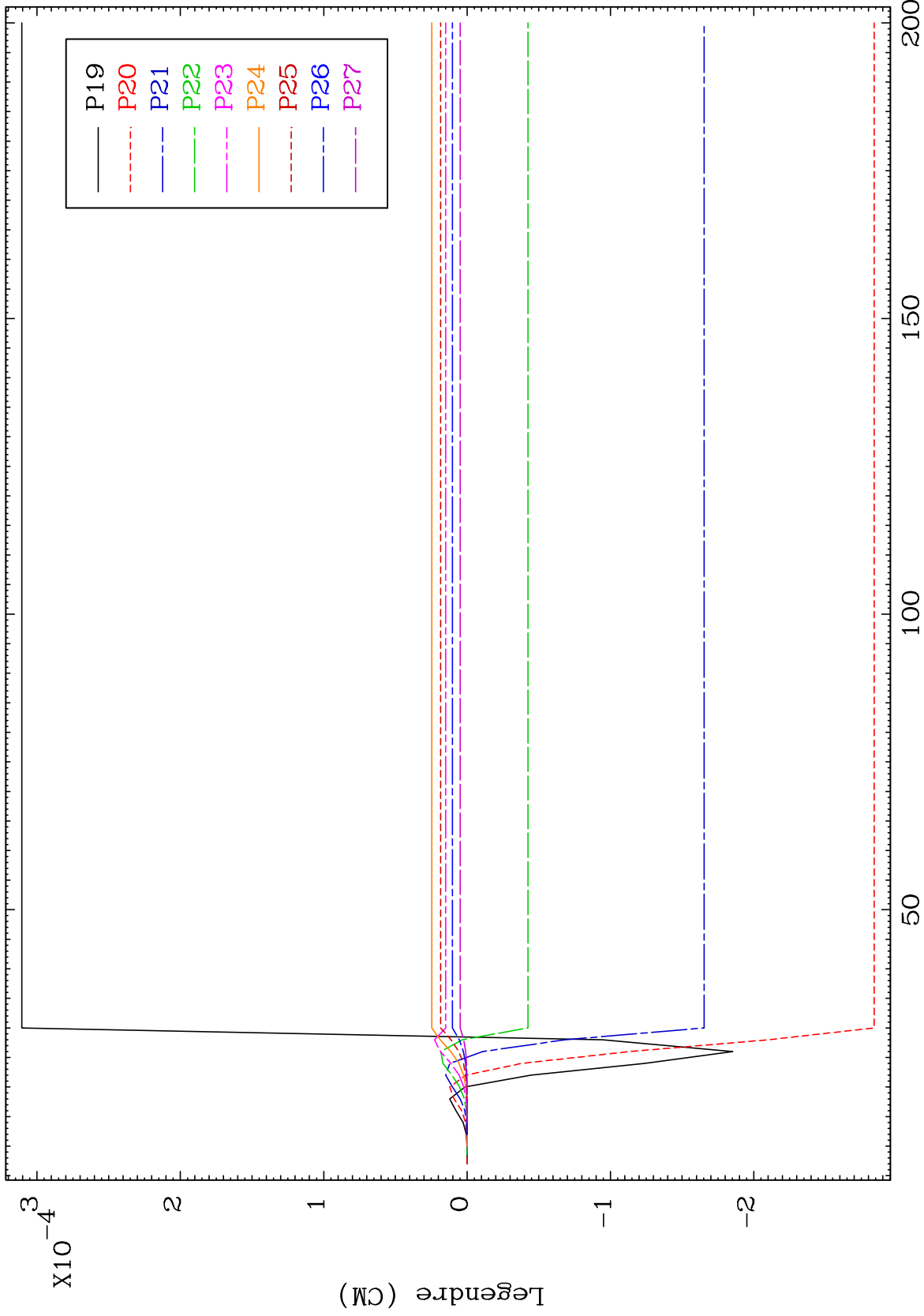
Incident Energy (MeV)

120

MAT 7107

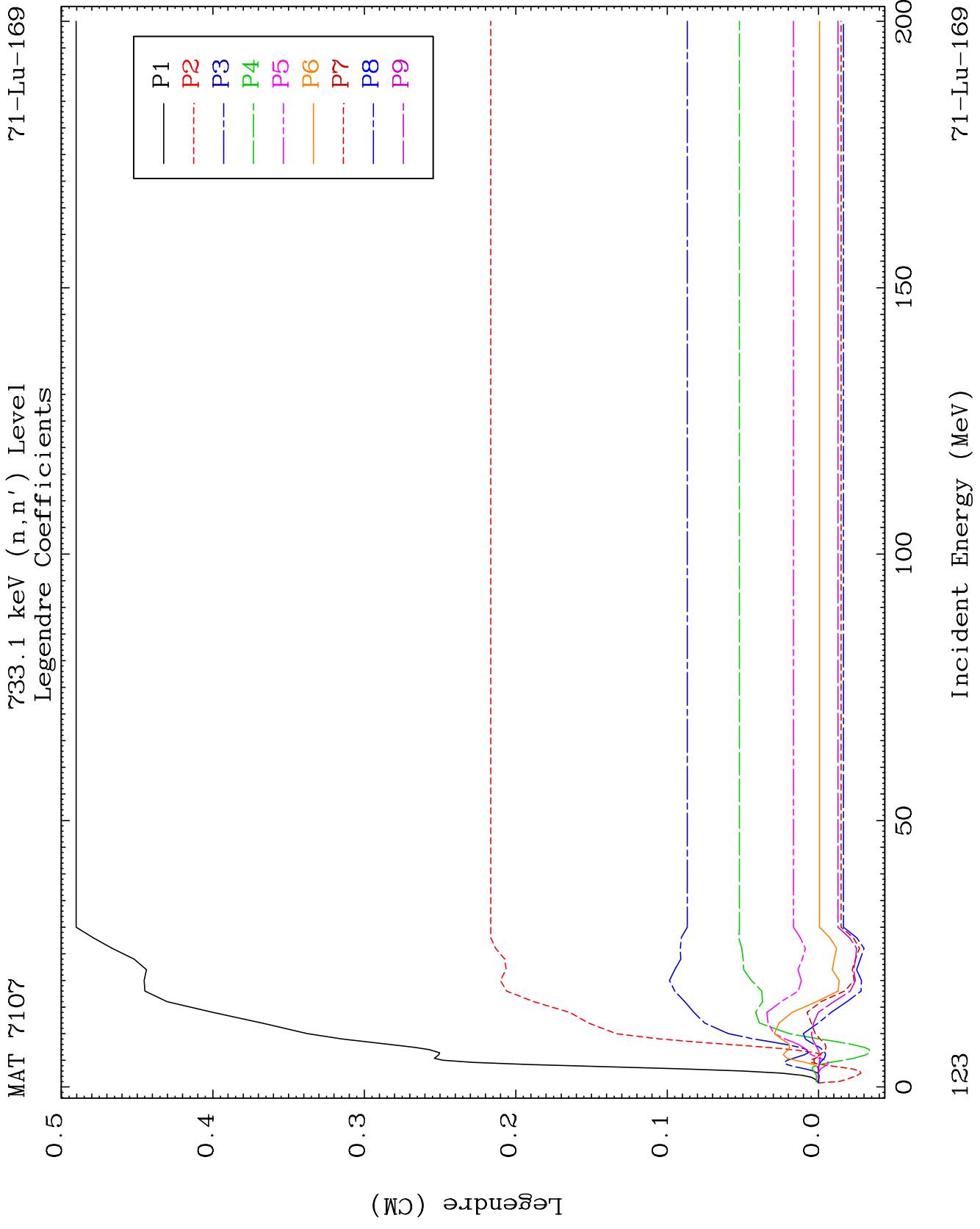
683.3 keV (n,n') Level
Legendre Coefficients

71-Lu-169



121

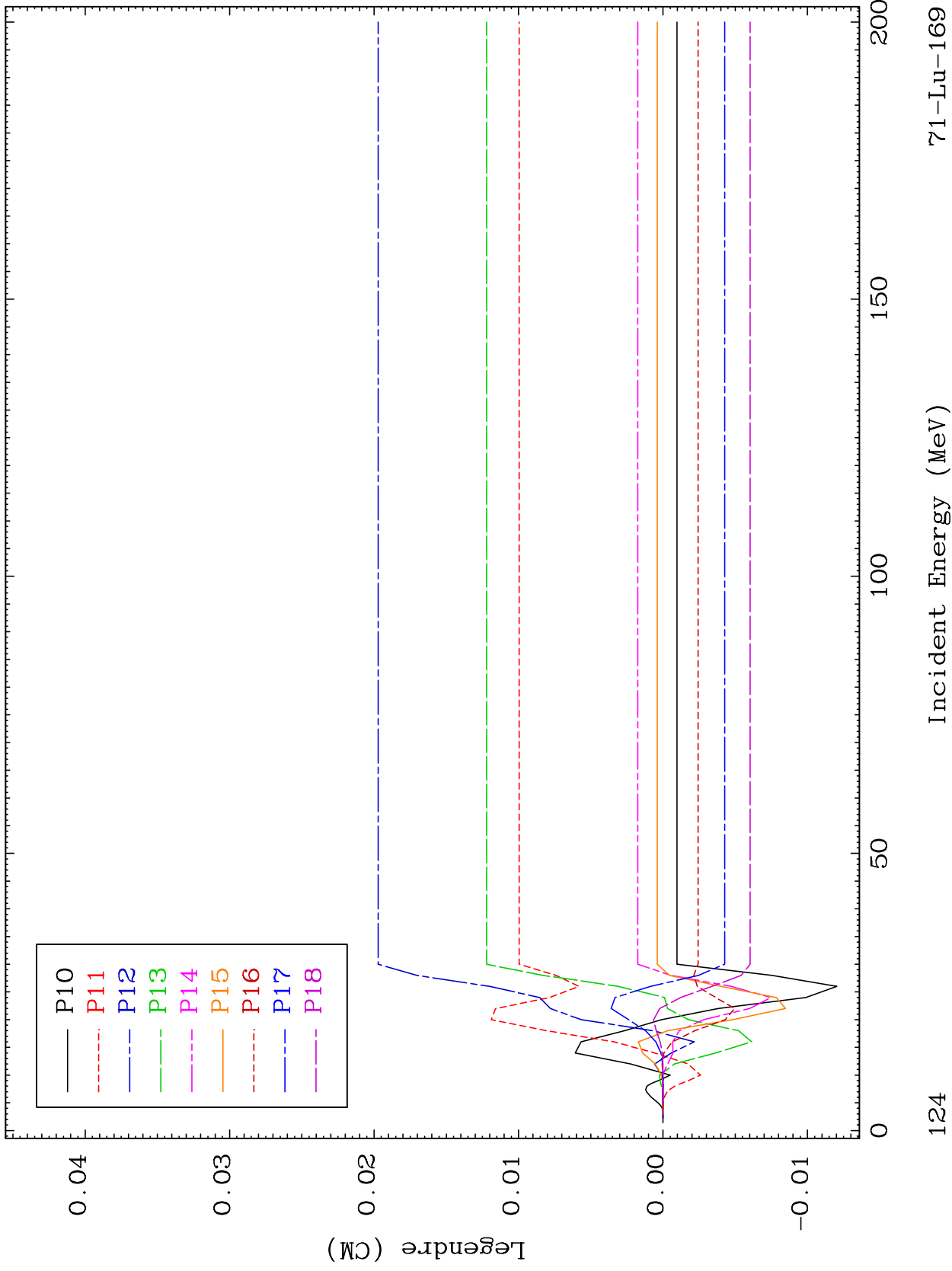
71-Lu-169



MAT 7107

733.1 keV (n,n') Level
Legendre Coefficients

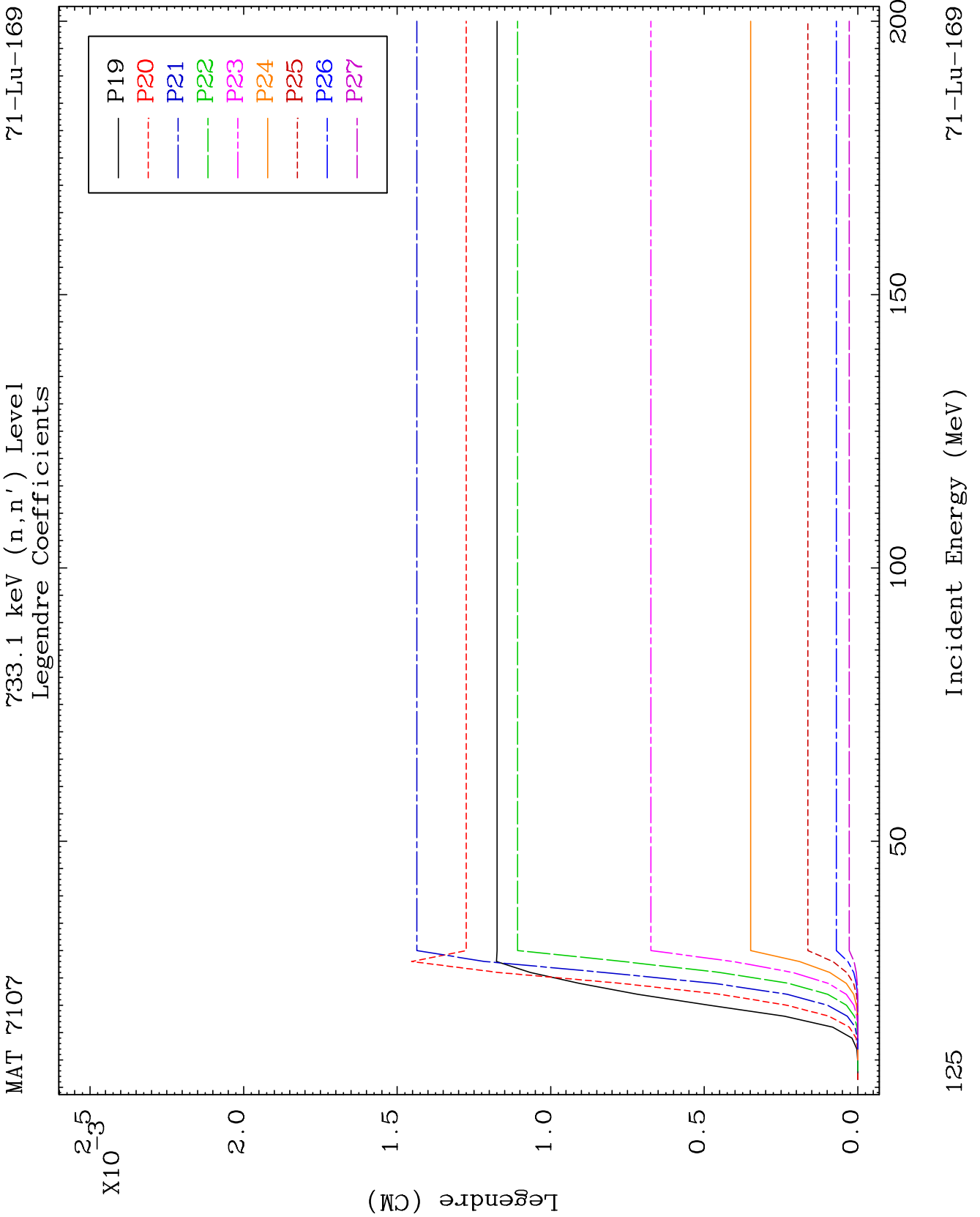
71-Lu-169

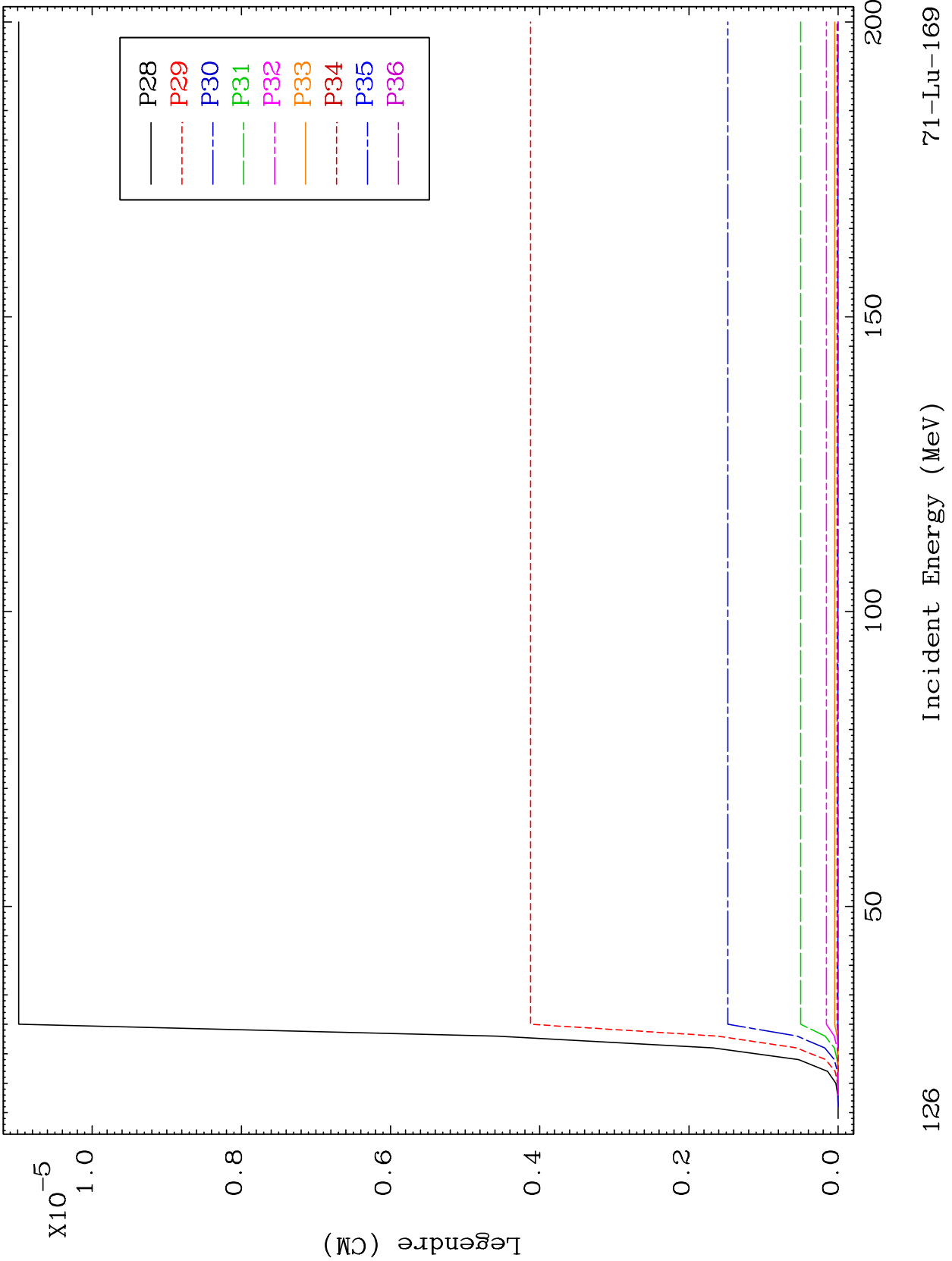


71-Lu-169

Incident Energy (MeV)

124

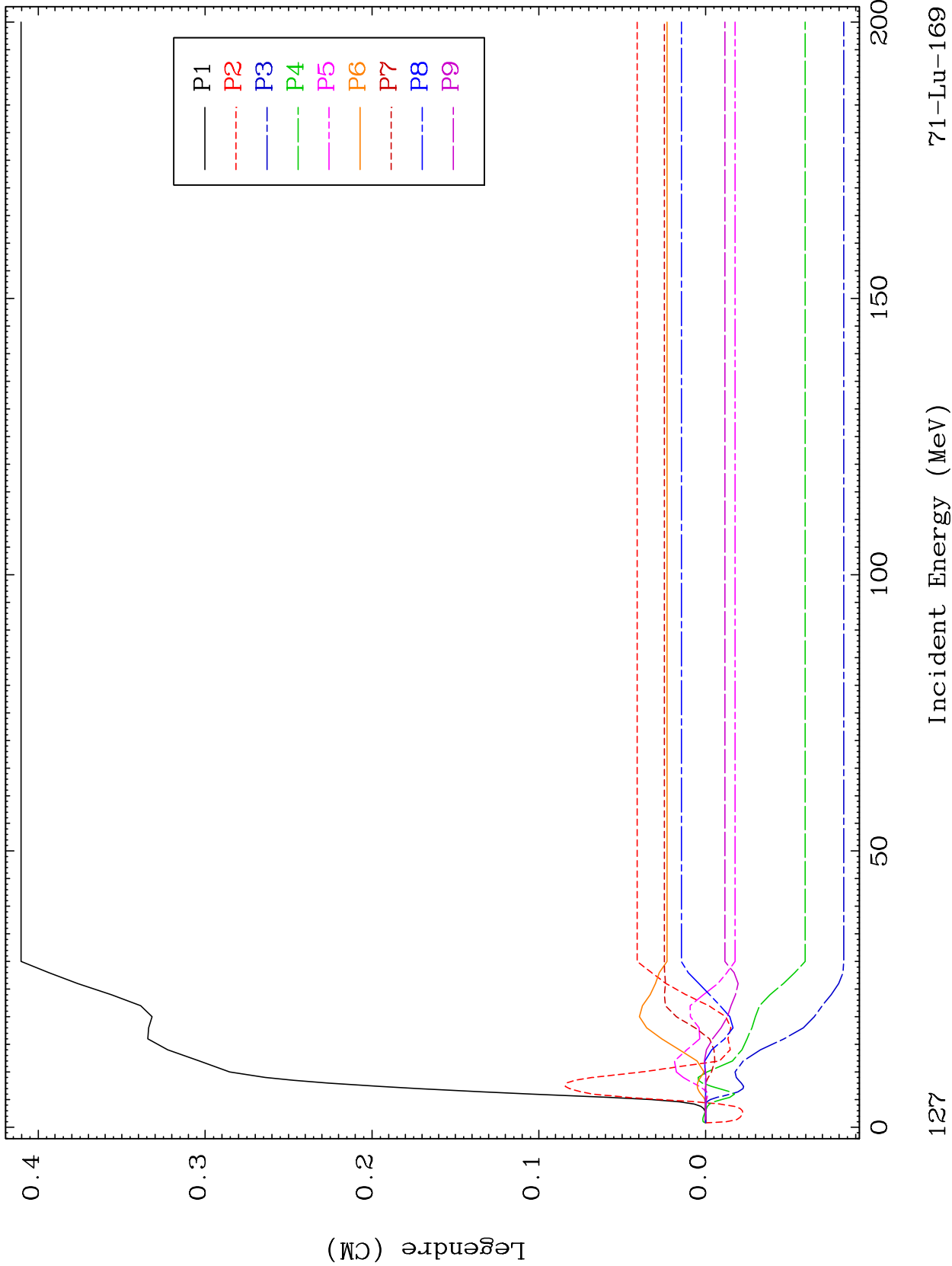




MAT 7107

763.1 keV (n,n') Level
Legendre Coefficients

71-Lu-169



127

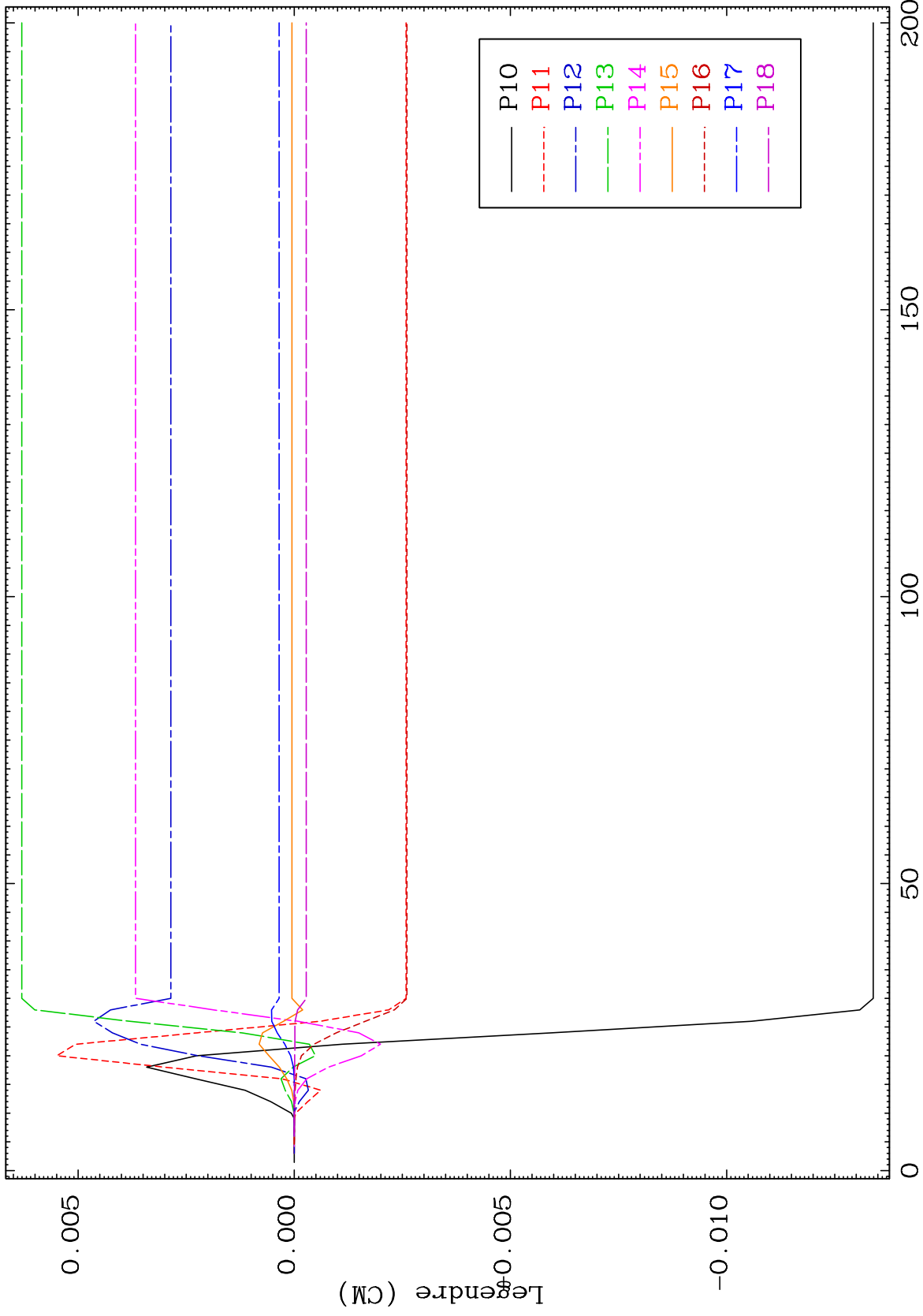
Incident Energy (MeV)

71-Lu-169

MAT 7107

763.1 keV (n,n') Level
Legendre Coefficients

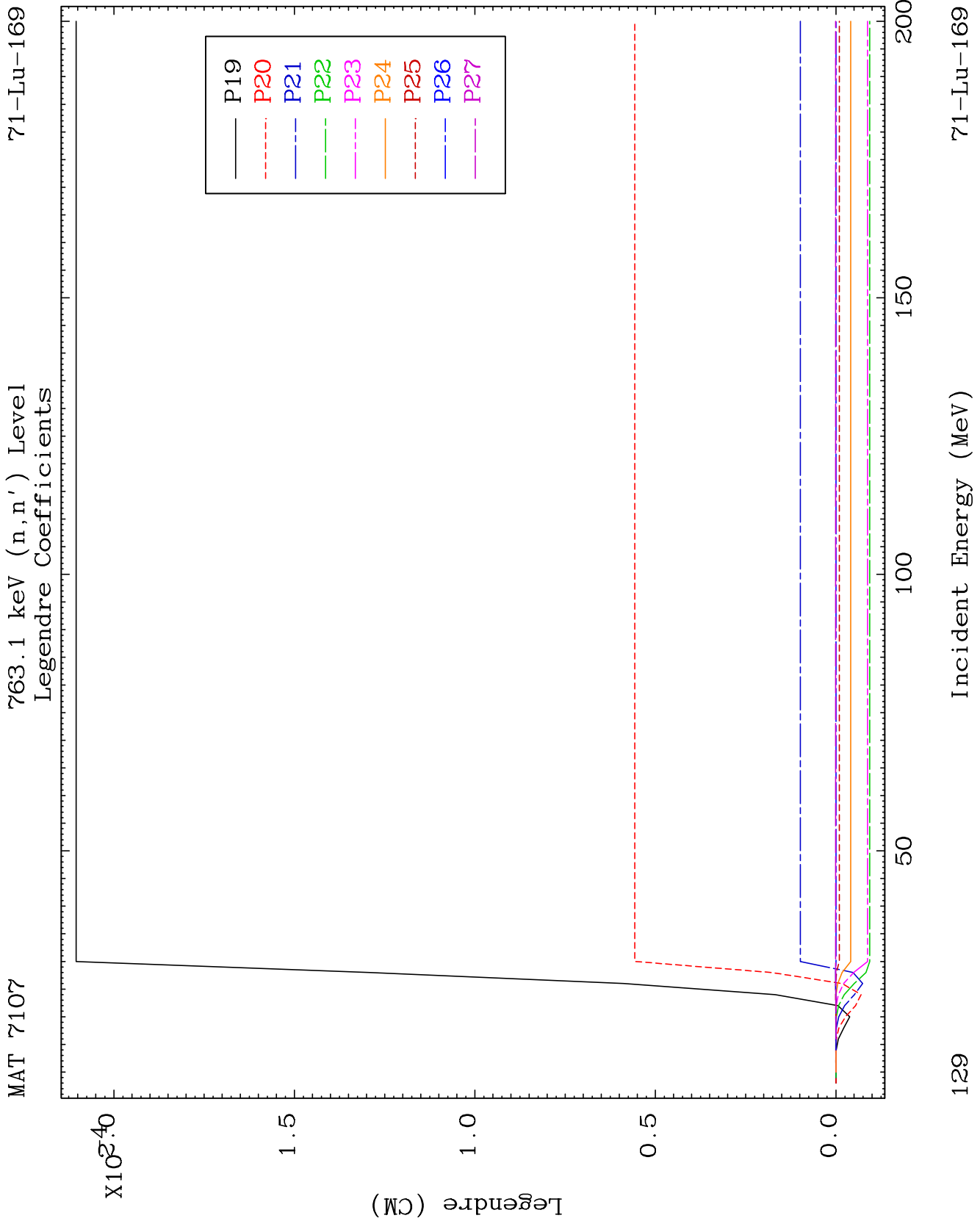
71-Lu-169

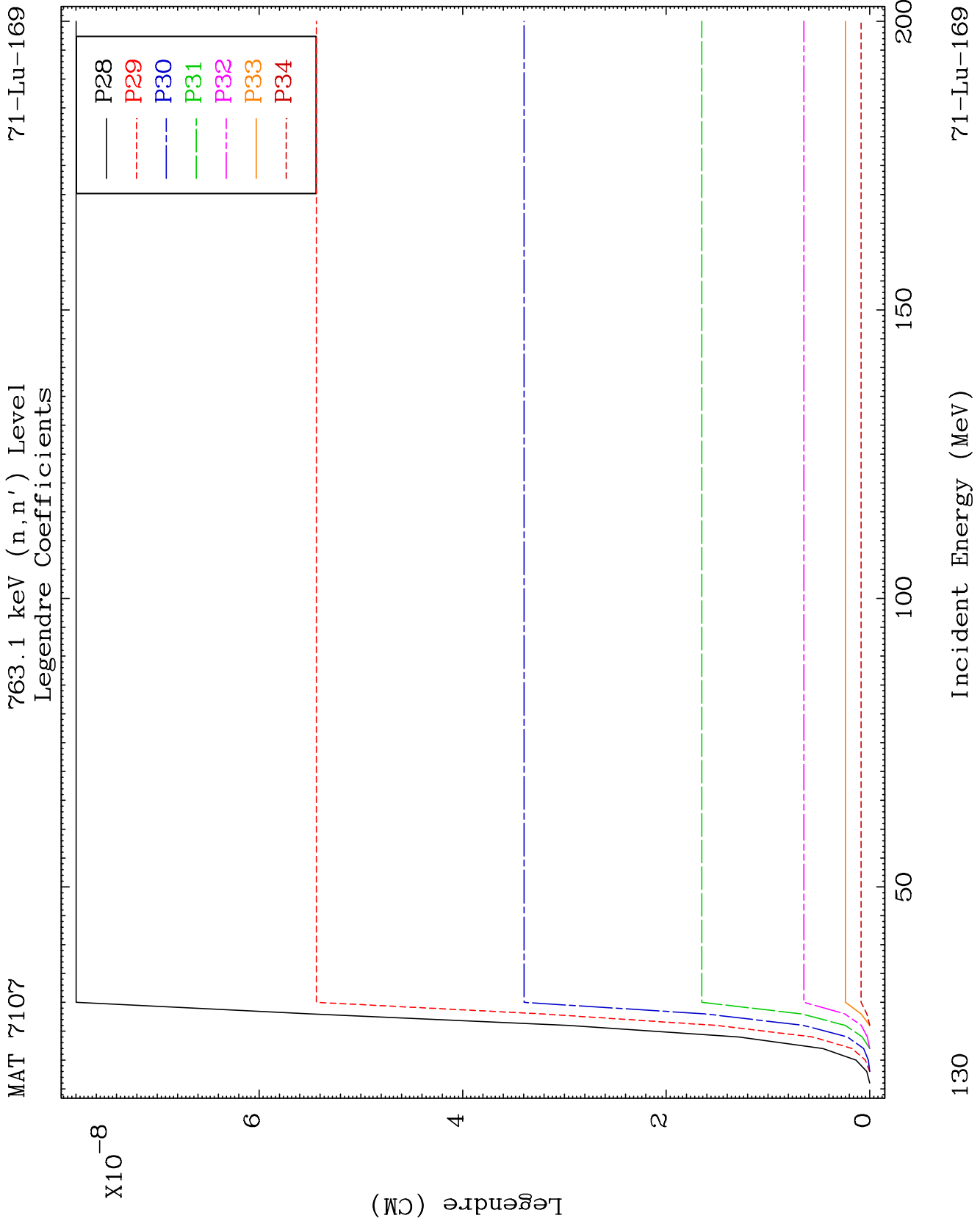


128

Incident Energy (MeV)

71-Lu-169

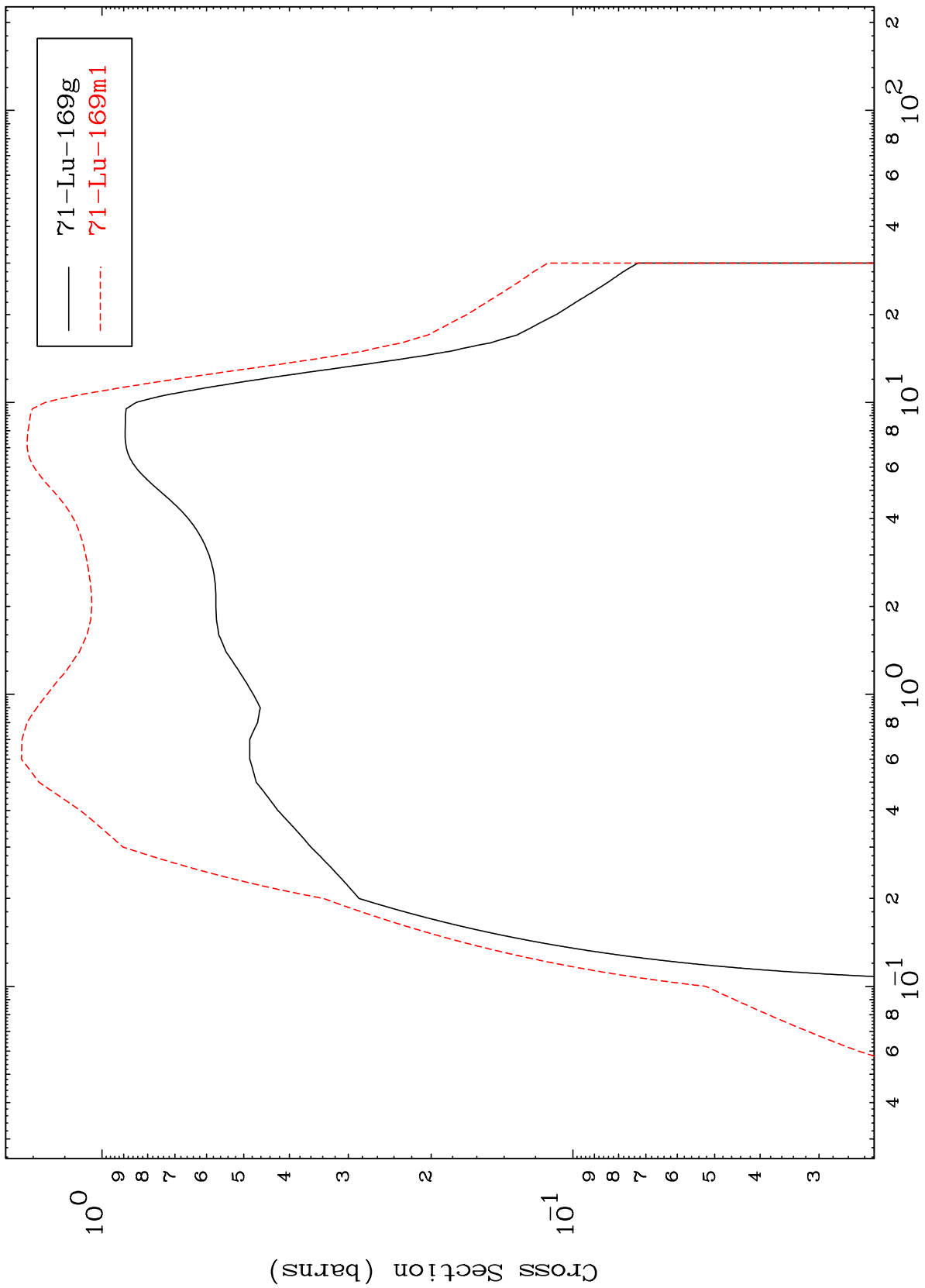




MAT 7107

71-Lu-169

Inelastic
Radionuclide Production Cross Section



131

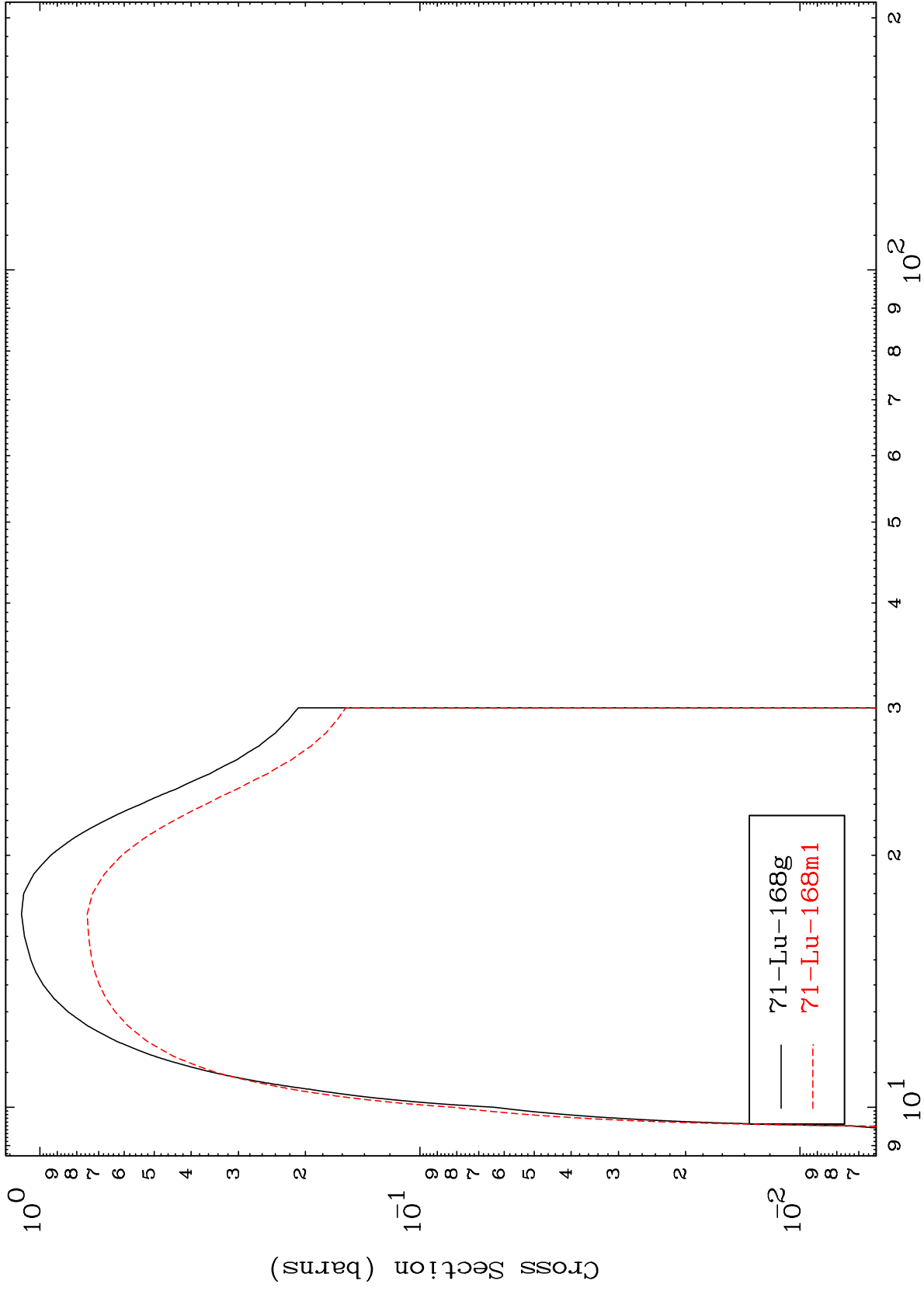
71-Lu-169

Incident Energy (MeV)

MAT 7107

71-Lu-169

Radionuclide Production Cross Section
(n,2n)



71-Lu-169

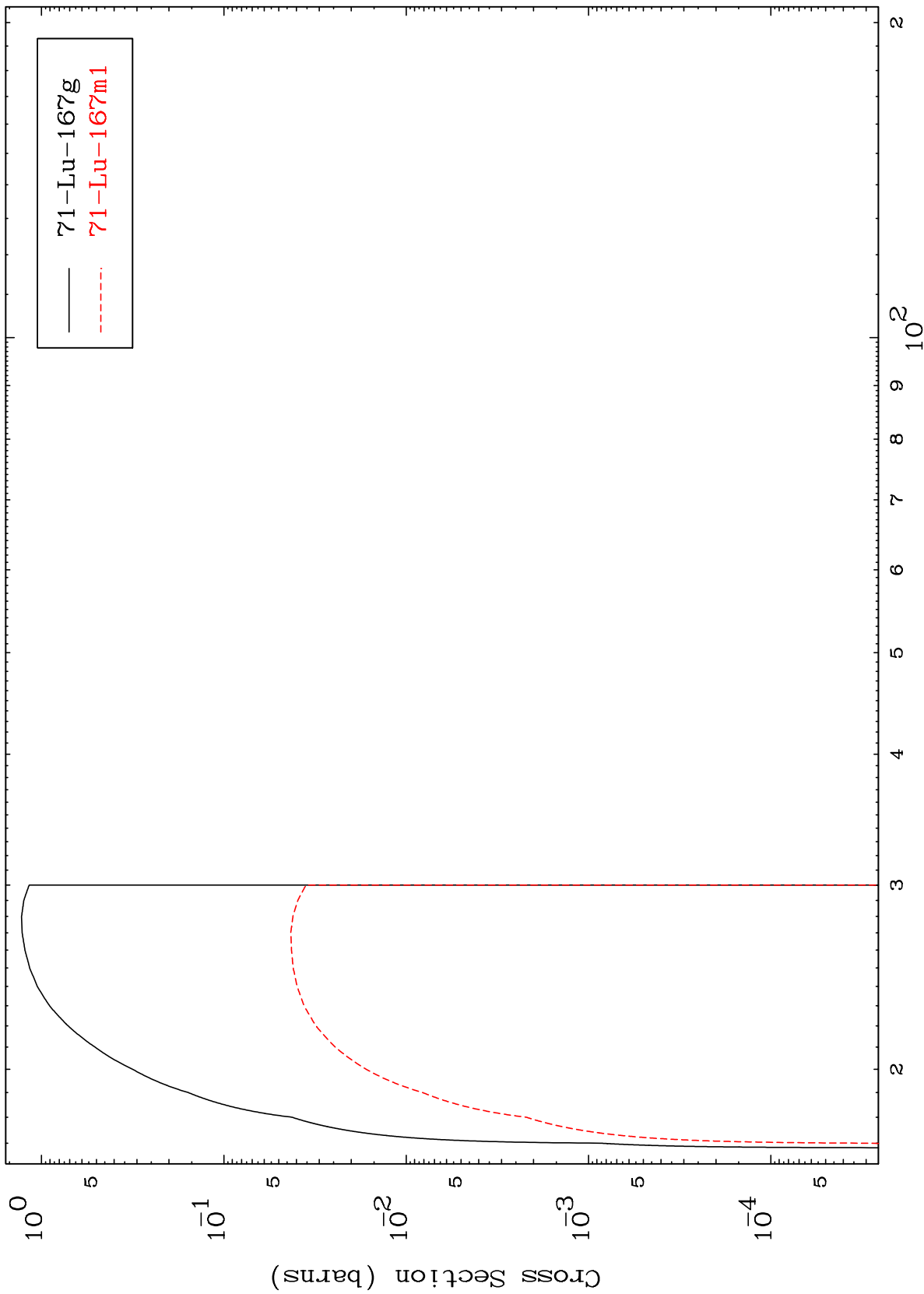
Incident Energy (MeV)

132

MAT 7107

71-Lu-169

(n,3n)
Radionuclide Production Cross Section



133

71-Lu-169

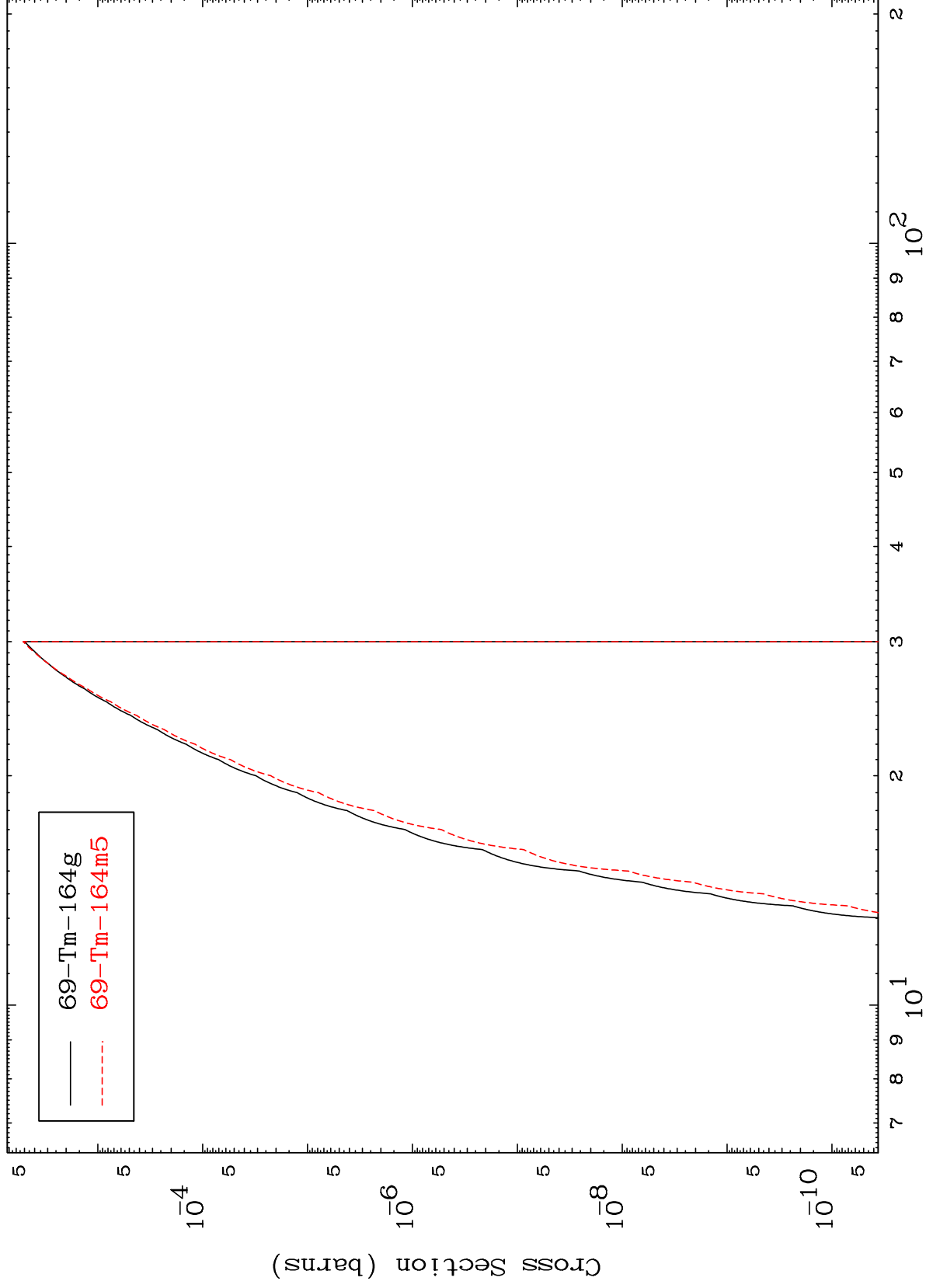
Incident Energy (MeV)

MAT 7107

$(n,2n) \alpha$

$^{71}\text{Lu-169}$

Radionuclide Production Cross Section



134

Incident Energy (MeV)

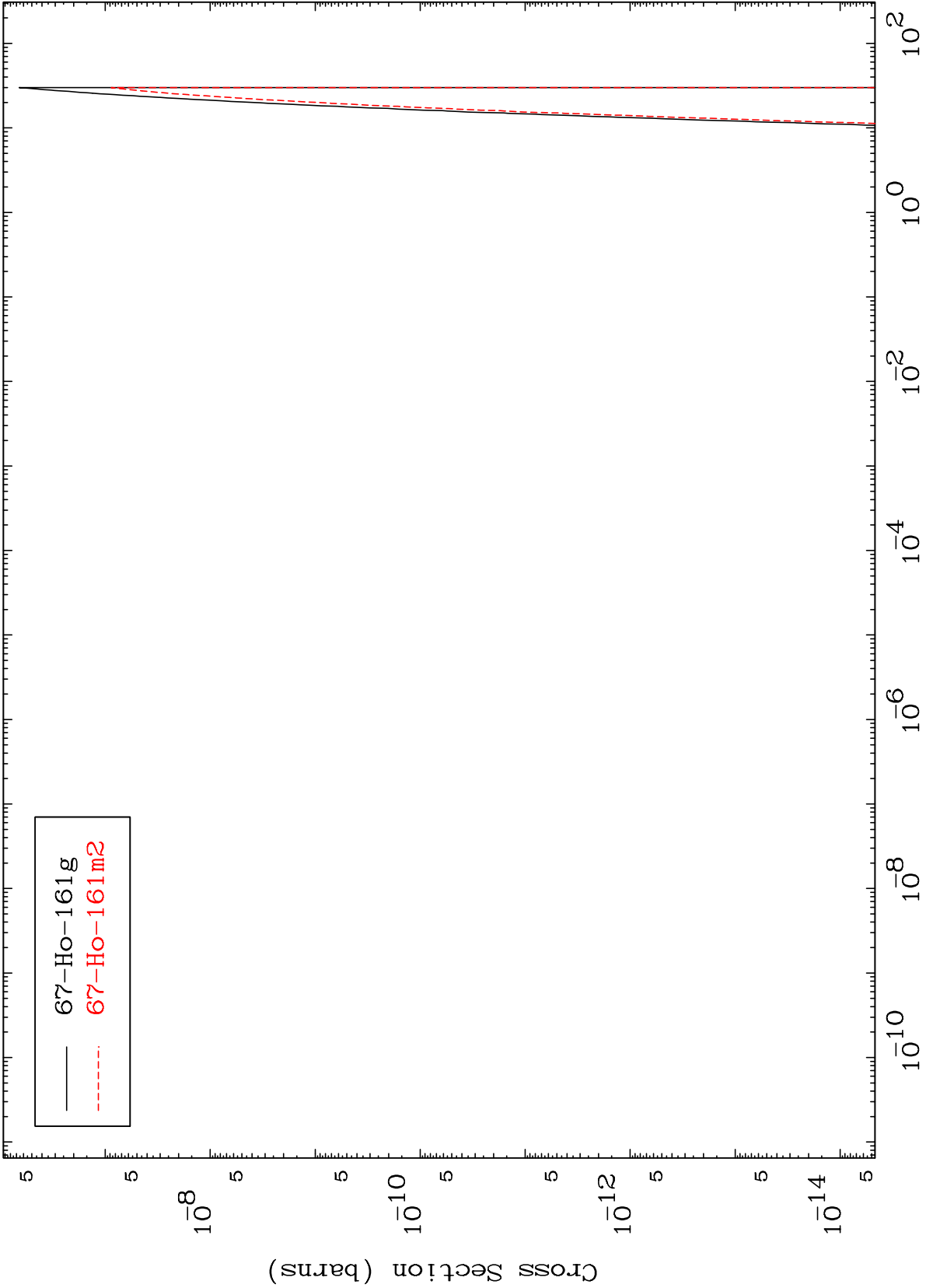
$^{71}\text{Lu-169}$

MAT 7107

(n,n') 2α

71-Lu-169

Radionuclide Production Cross Section



135

Incident Energy (MeV)

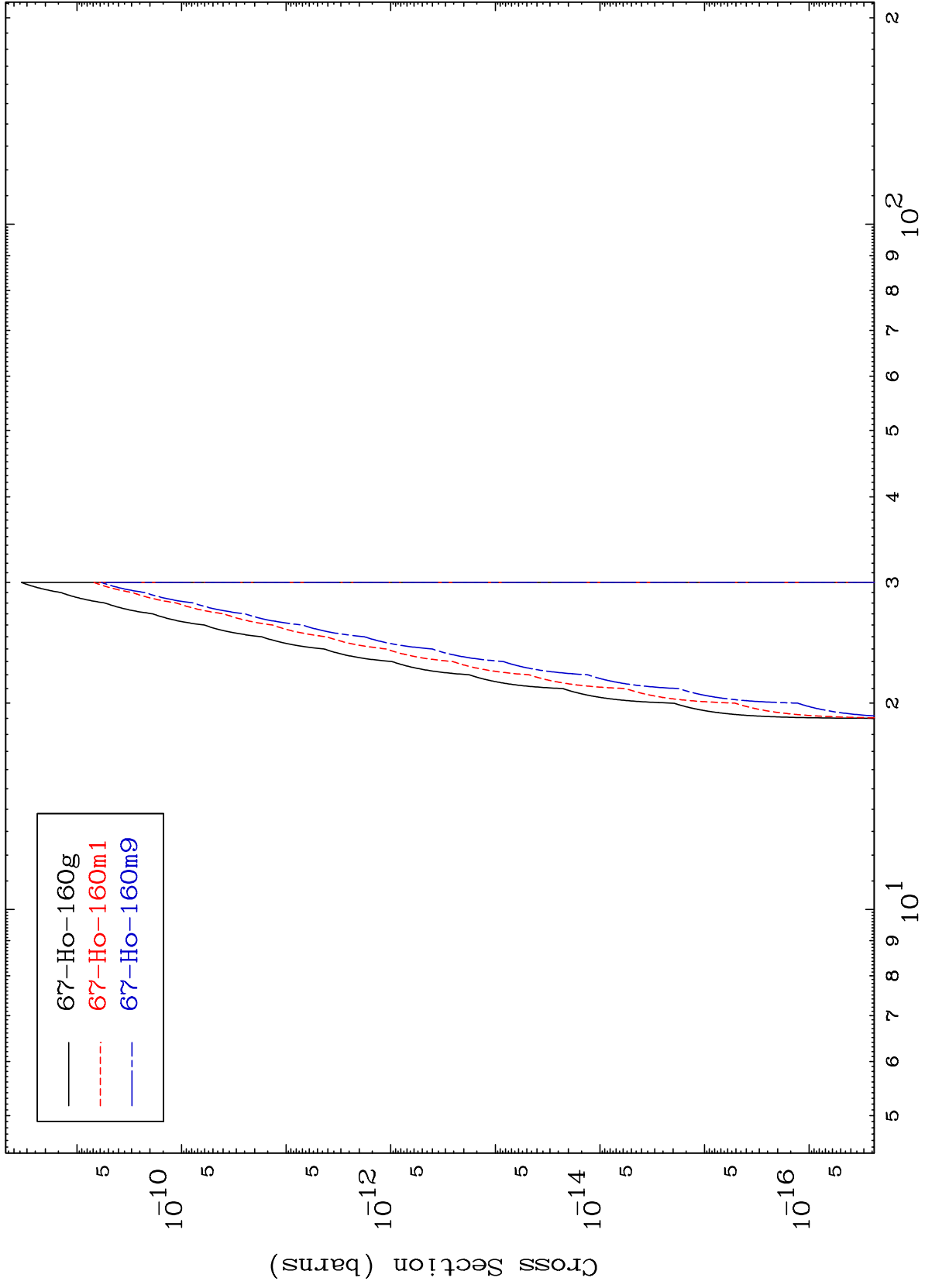
71-Lu-169

MAT 7107

$(n,2n) 2\alpha$

$^{71}\text{Lu-169}$

Radionuclide Production Cross Section



Legend:
— $^{67}\text{Ho-160g}$
- - $^{67}\text{Ho-160m1}$
- - $^{67}\text{Ho-160m9}$

136

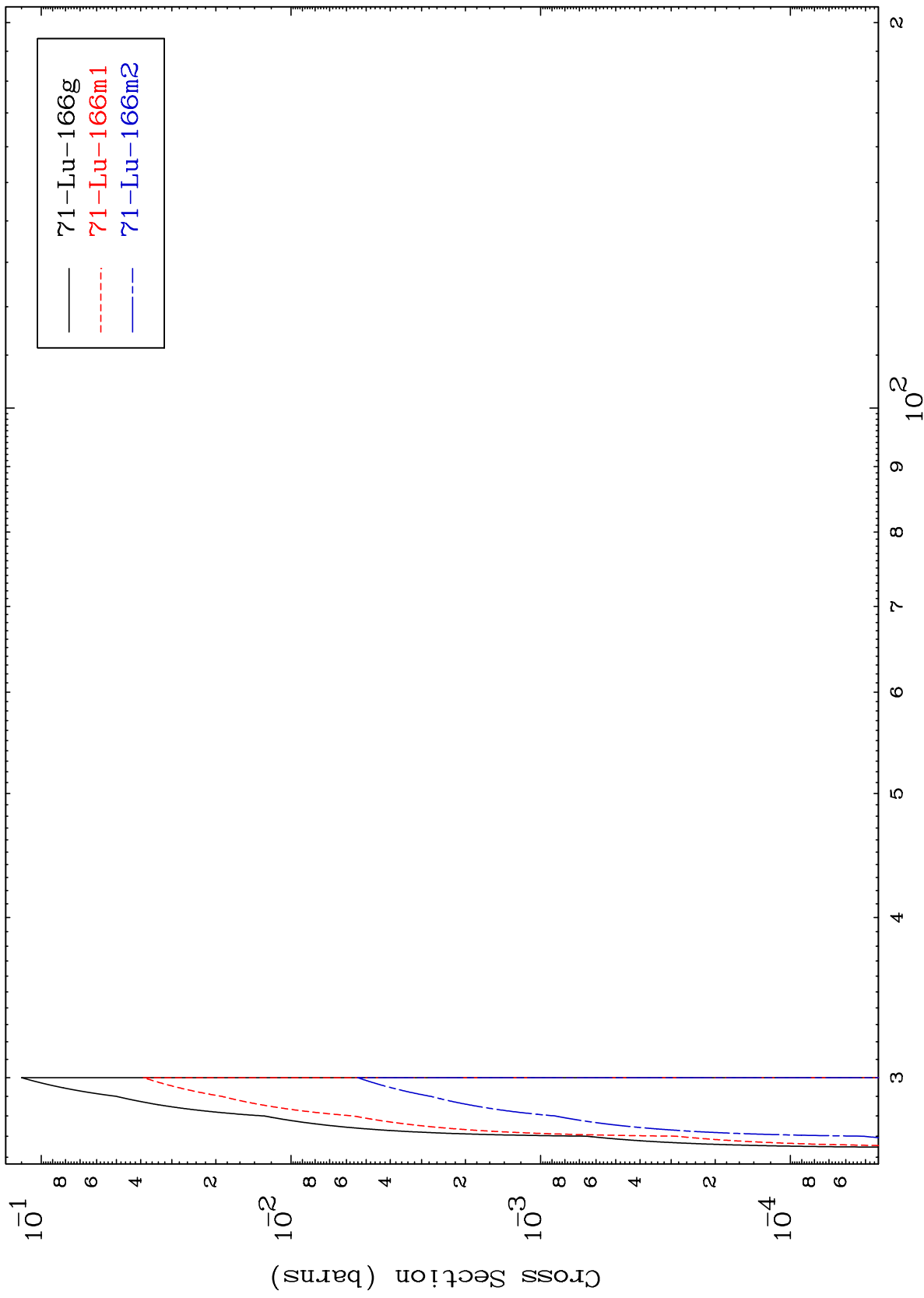
Incident Energy (MeV)

$^{71}\text{Lu-169}$

MAT 7107

71-Lu-169

(n,4n)
Radionuclide Production Cross Section



71-Lu-169

Incident Energy (MeV)

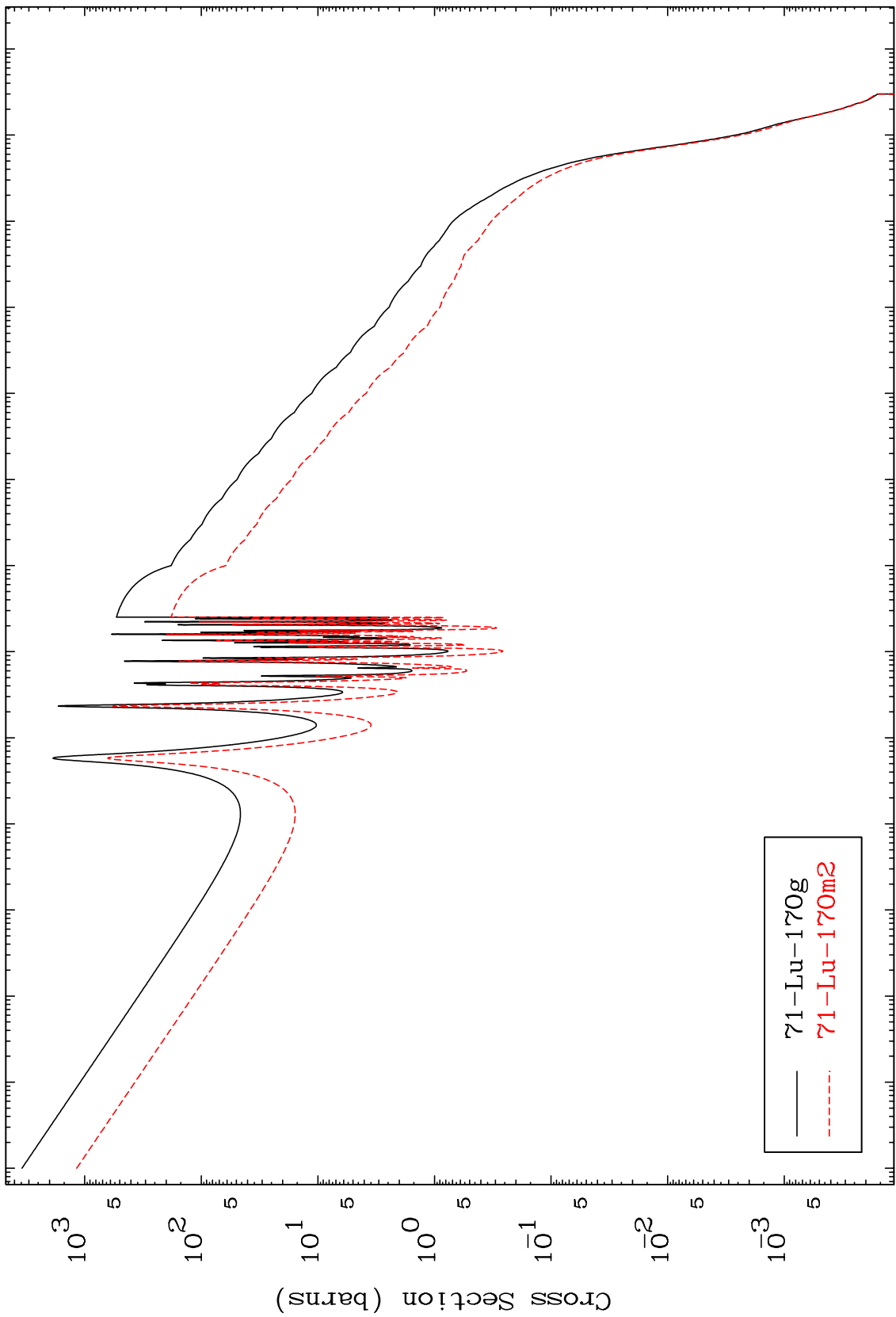
137

MAT 7107

71-Lu-169

Radionuclide Production Cross Section

(n, γ)



71-Lu-169

10⁰

10⁻⁴

10⁻⁶

10⁻⁸

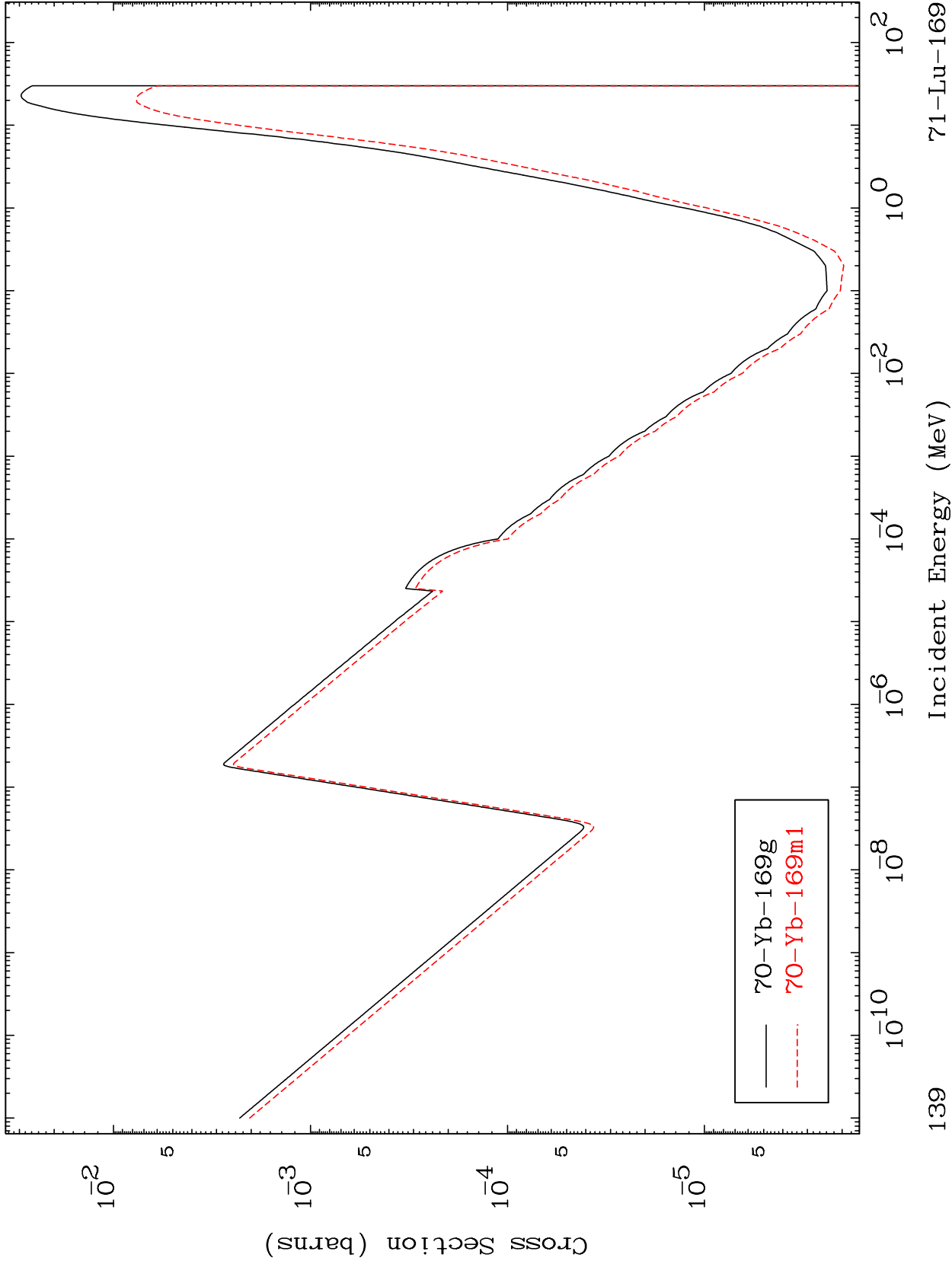
10⁻¹⁰

10²

Incident Energy (MeV)

138

(n,p)
Radionuclide Production Cross Section

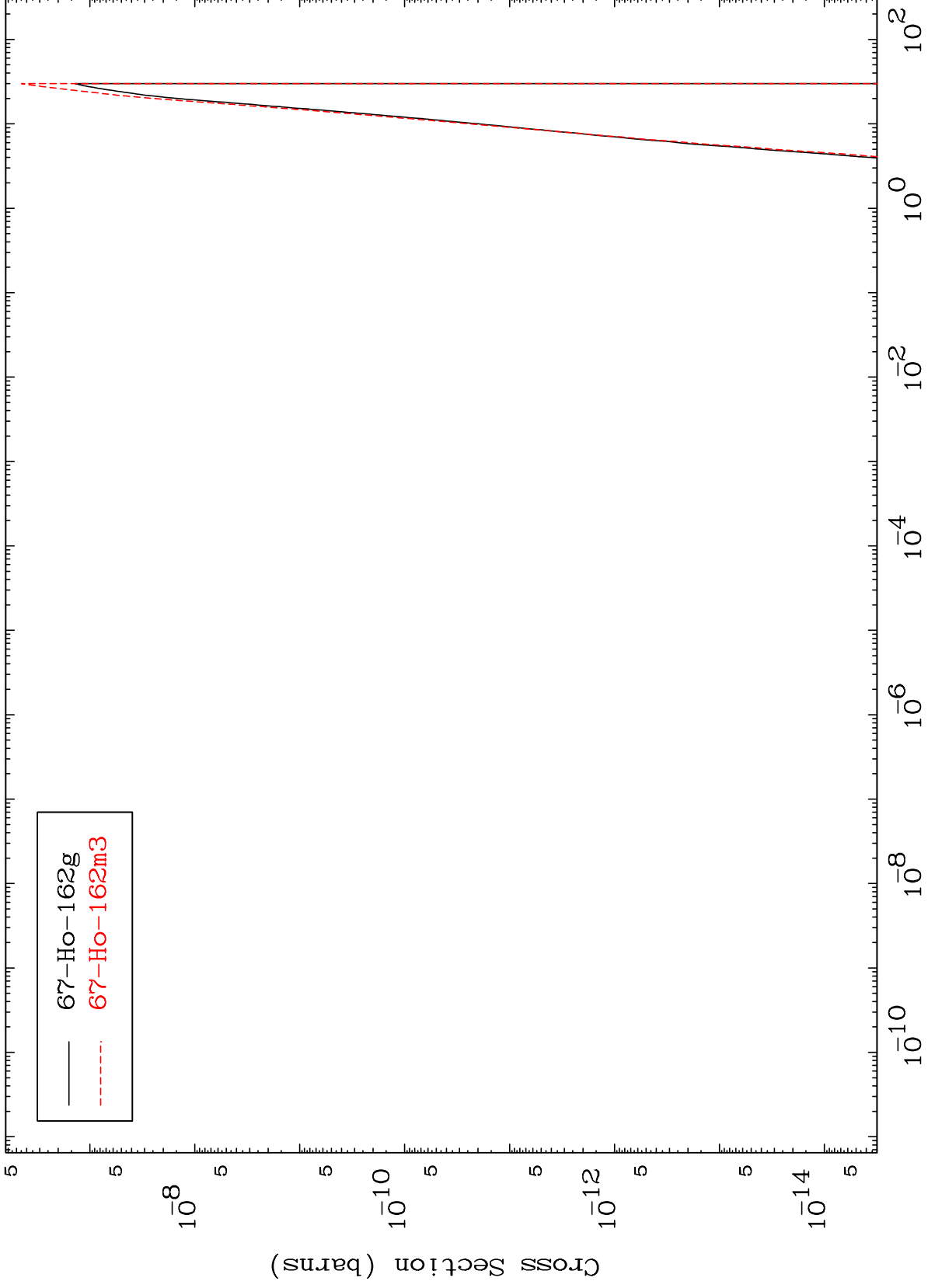


MAT 7107

(n,2α)

⁷¹Lu-169

Radionuclide Production Cross Section



140

Incident Energy (MeV)

⁷¹Lu-169