

Program EVALPLOT
(Version 2015-2)

by

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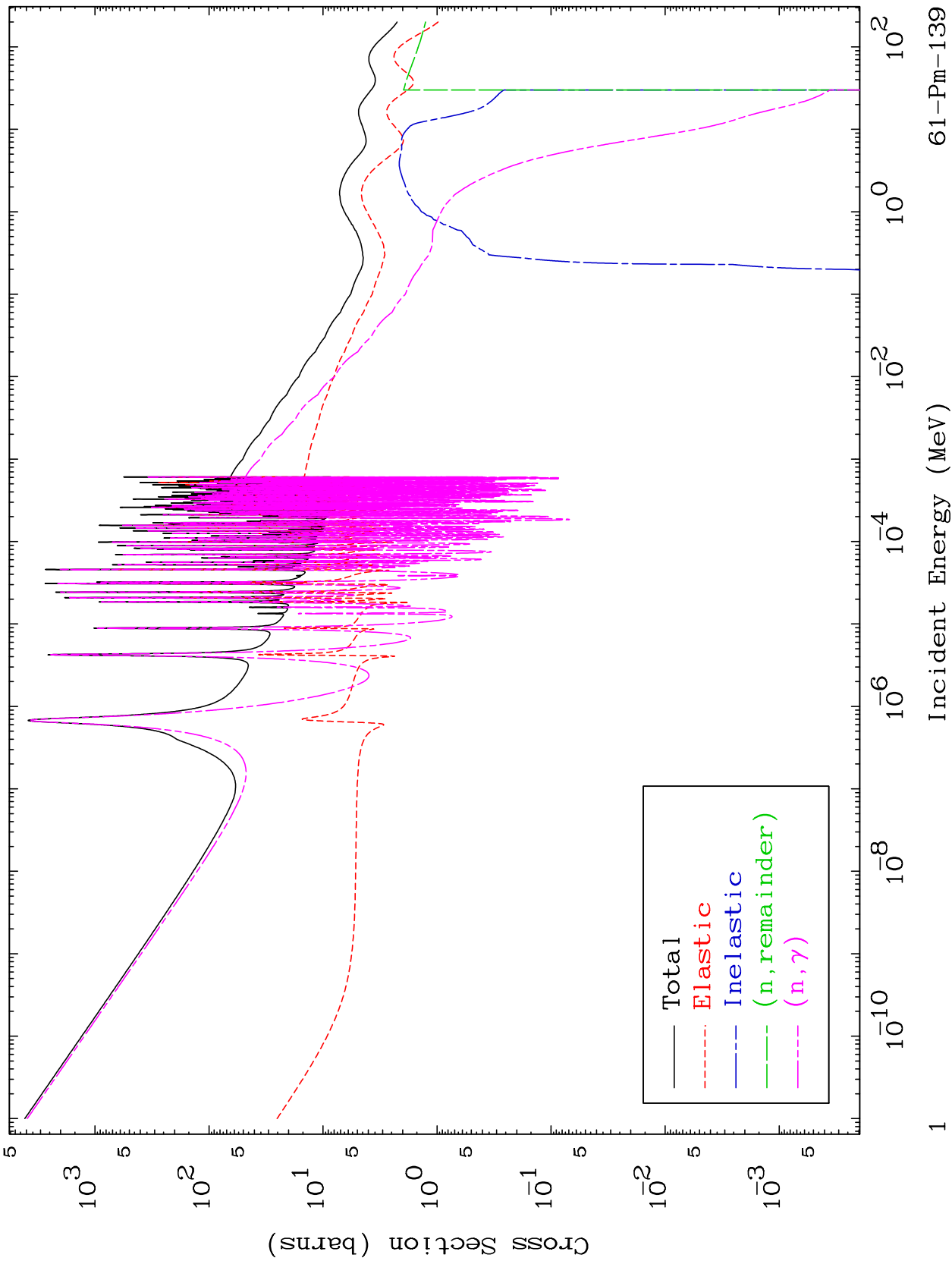
Press Mouse Button to Start

MAT 6125

Major

293 Kelvin Cross Sections

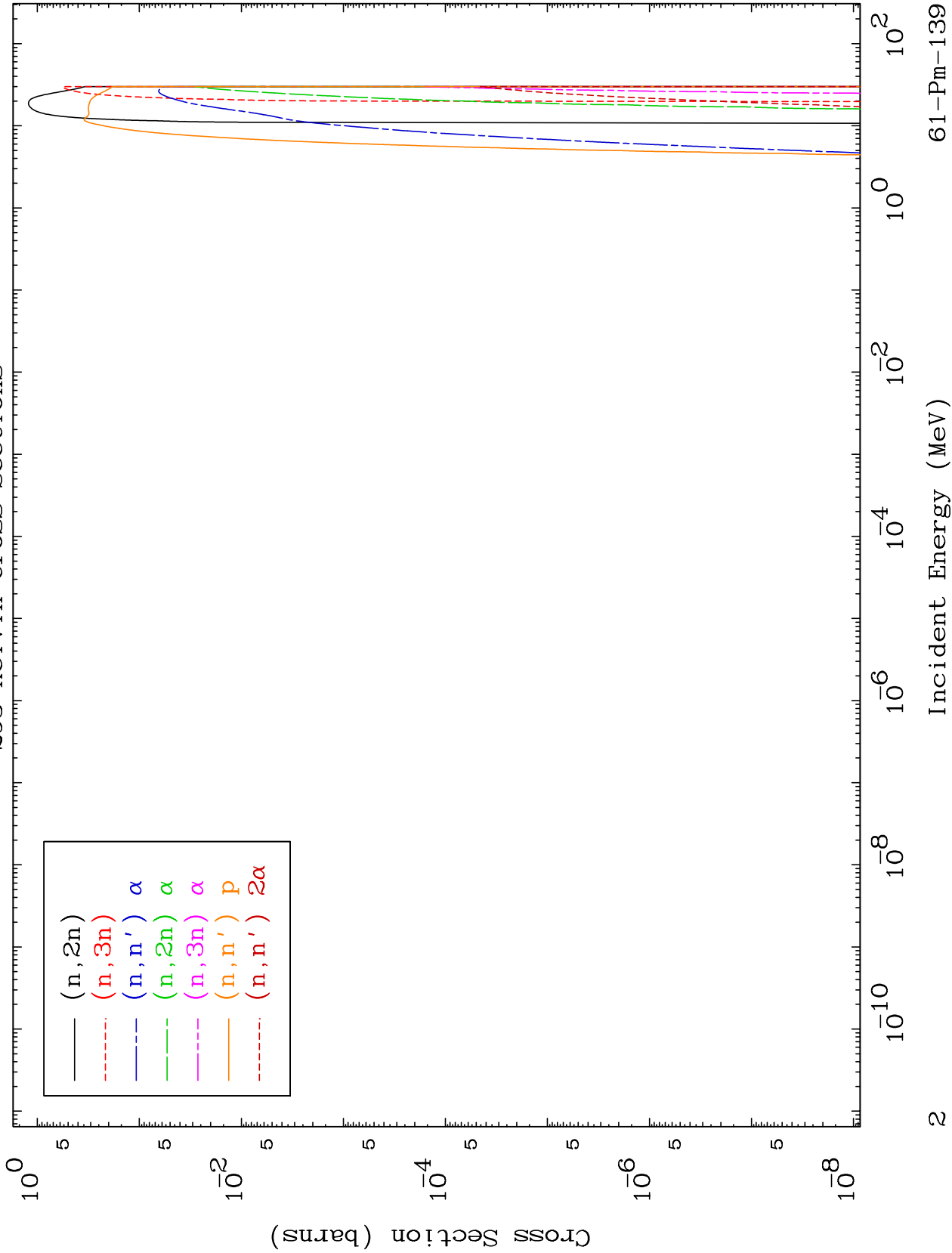
61-Pm-139

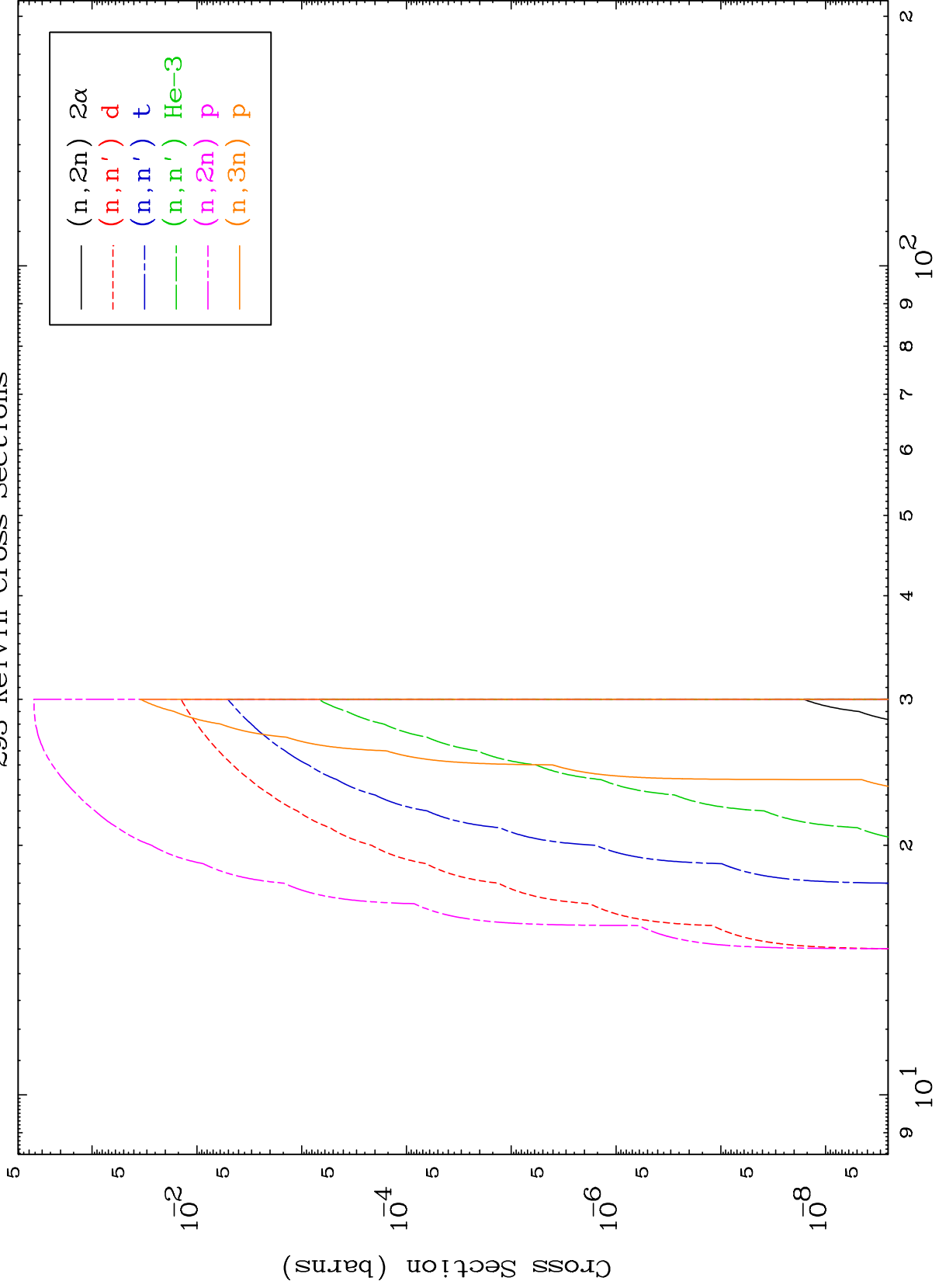


MAT 6125

Neutron Production
293 Kelvin Cross Sections

61-Pm-139

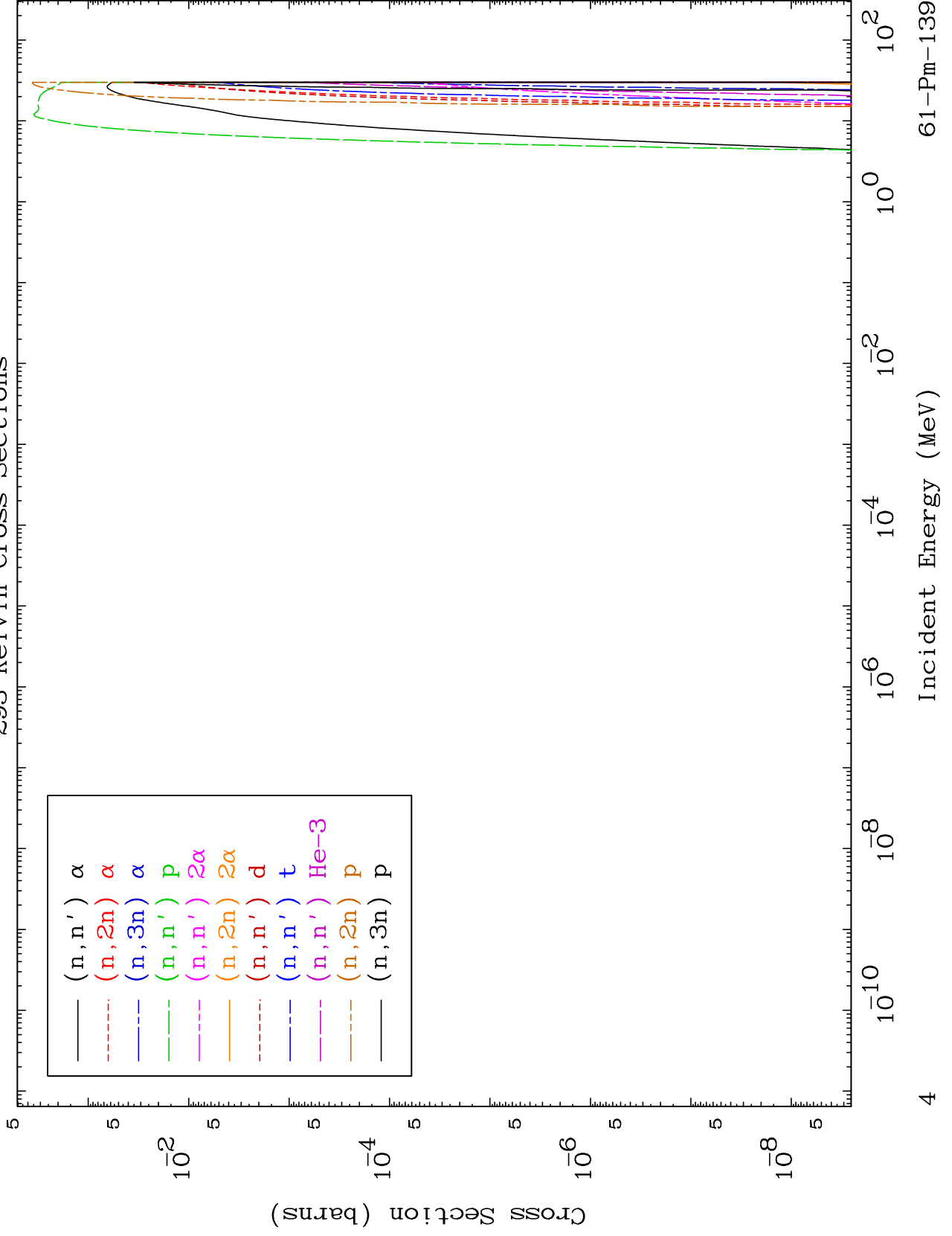




MAT 6125

Charged Particle
293 Kelvin Cross Sections

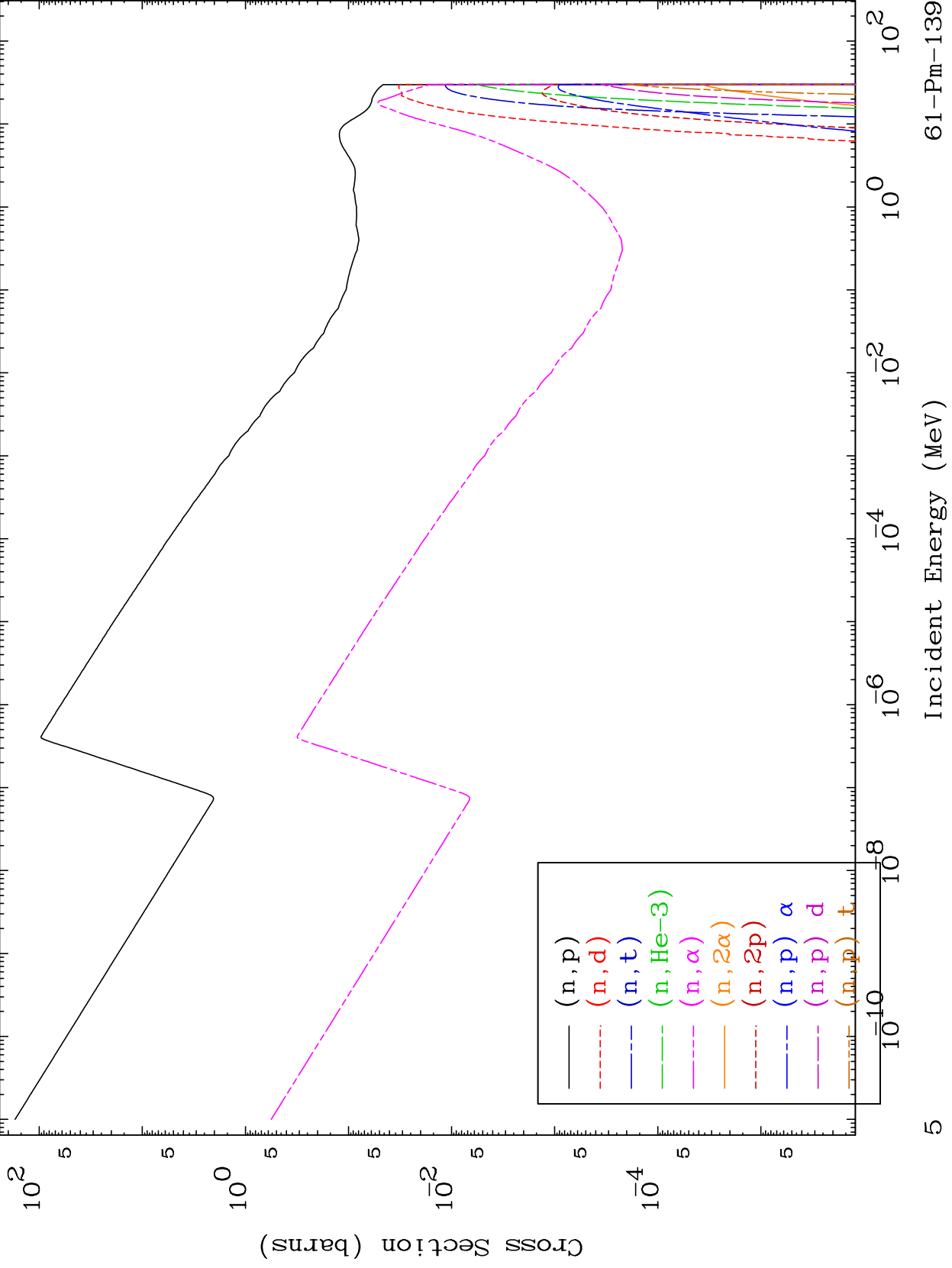
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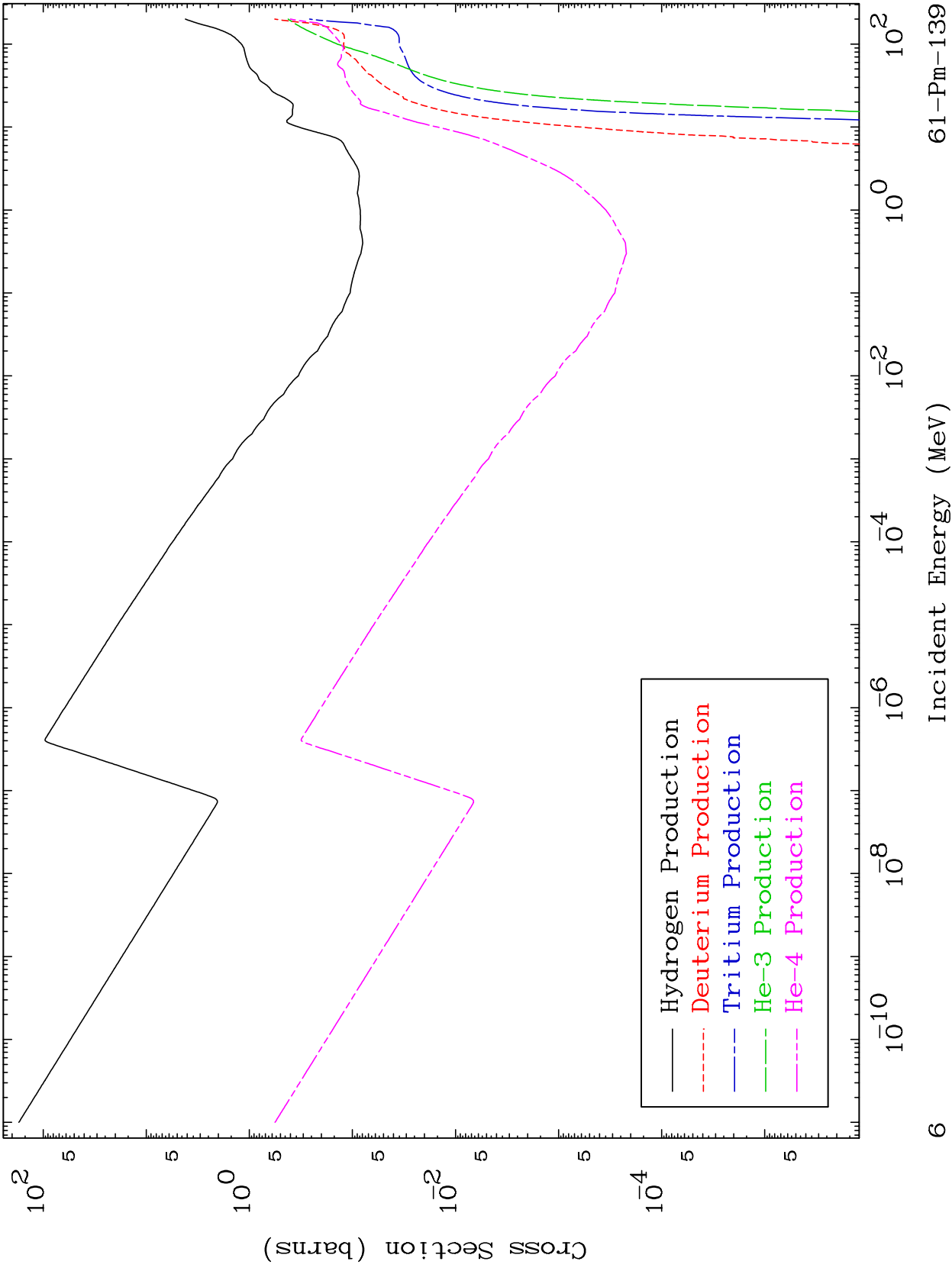


MAT 6125

Charged Particle
293 Kelvin Cross Sections

61-Pm-139

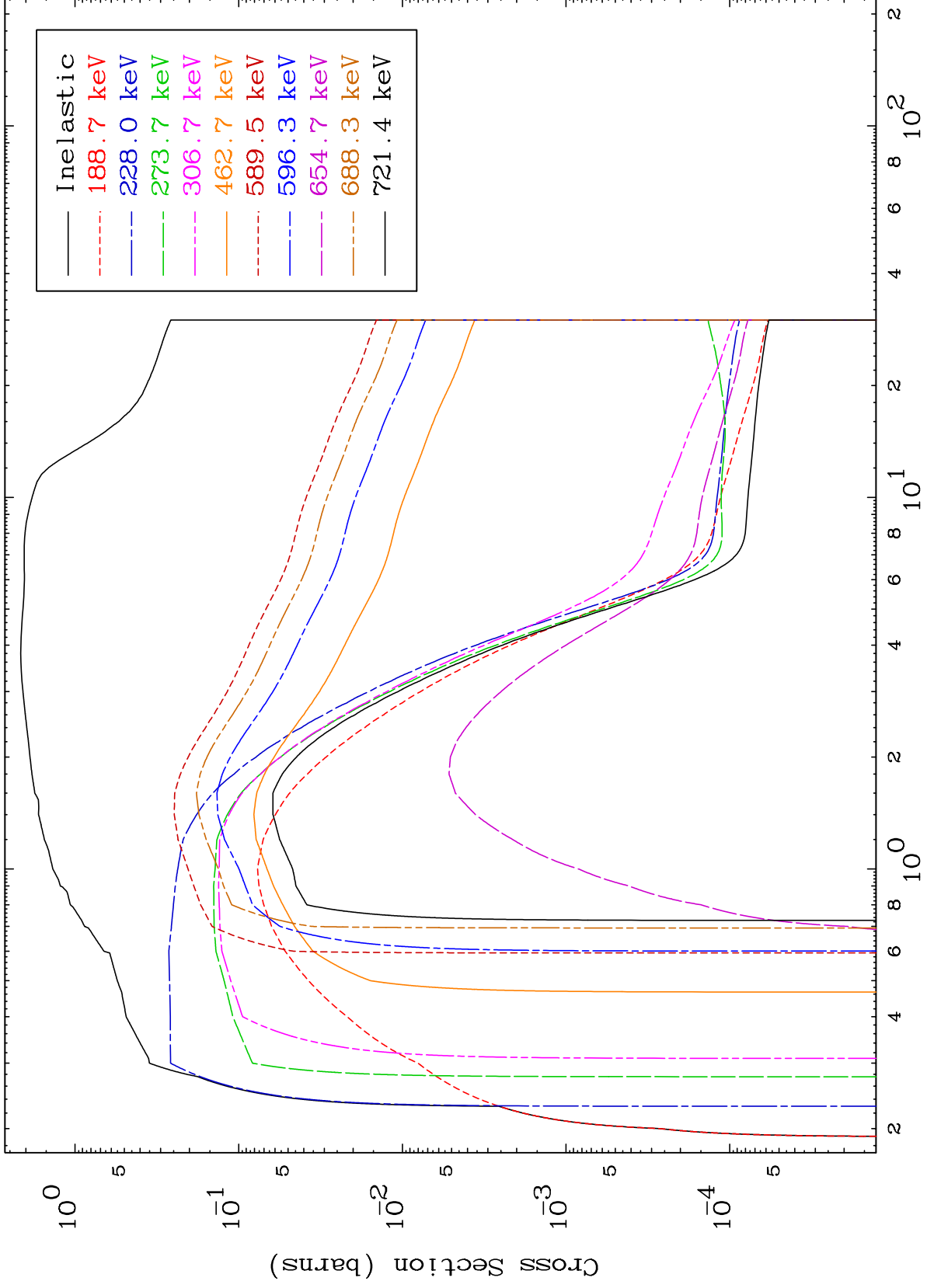




MAT 6125

(n,n') Level
293 Kelvin Cross Sections

61-Pm-139



7

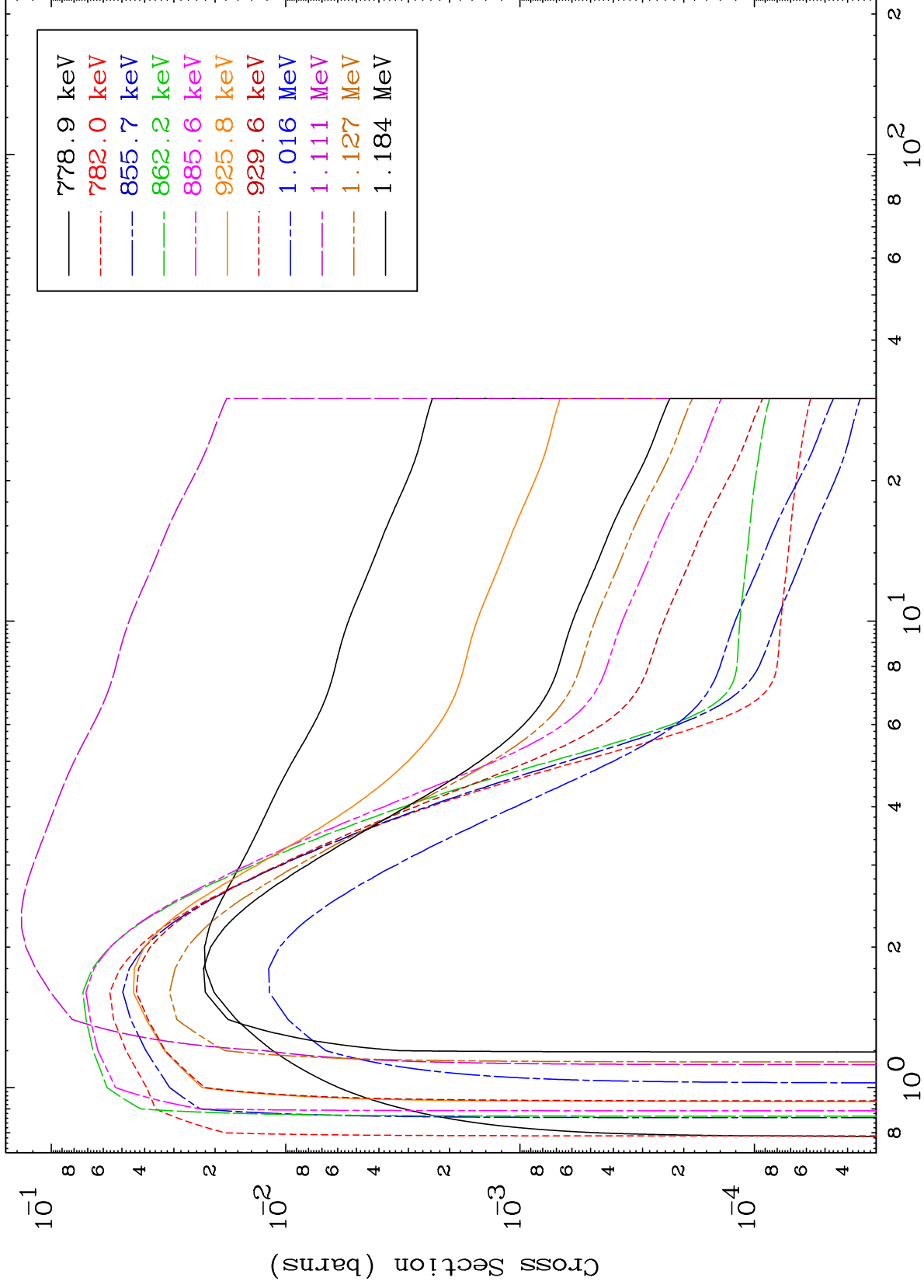
Incident Energy (MeV)

61-Pm-139

MAT 6125

(n,n') Level
293 Kelvin Cross Sections

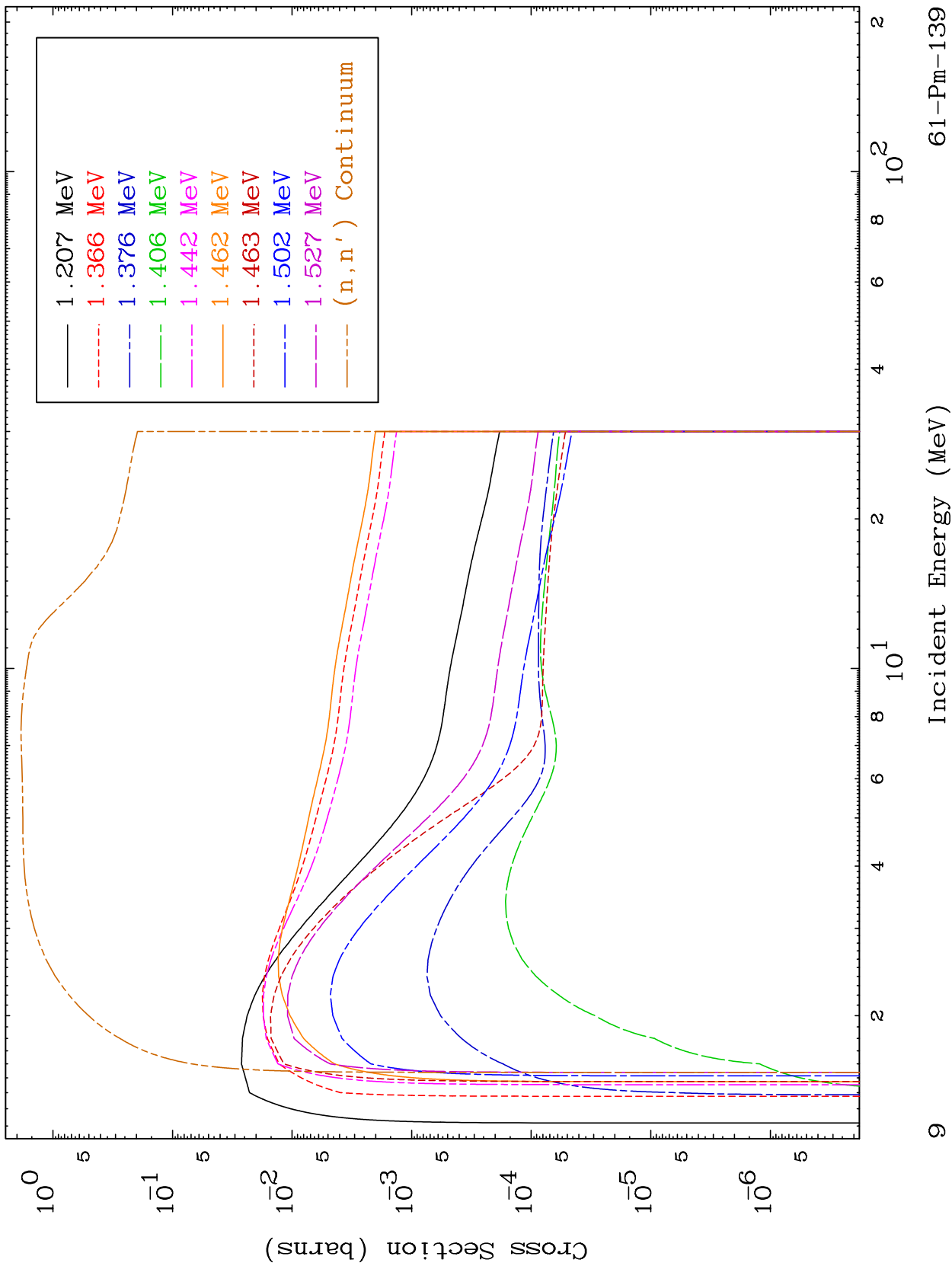
61-Pm-139



Incident Energy (MeV)

61-Pm-139

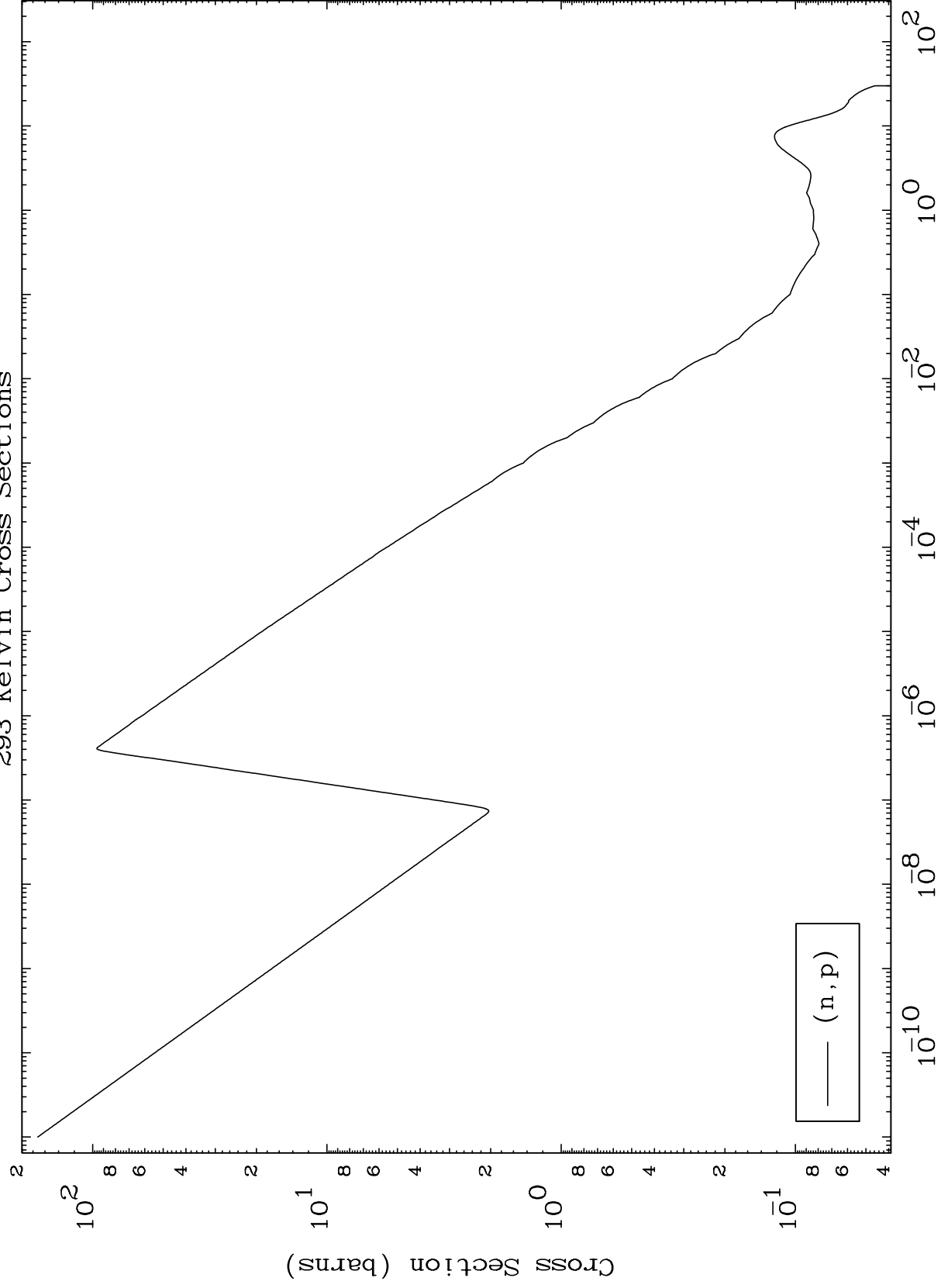
293 Kelvin Cross Sections



MAT 6125

(n,p) Levels
293 Kelvin Cross Sections

61-Pm-139



10

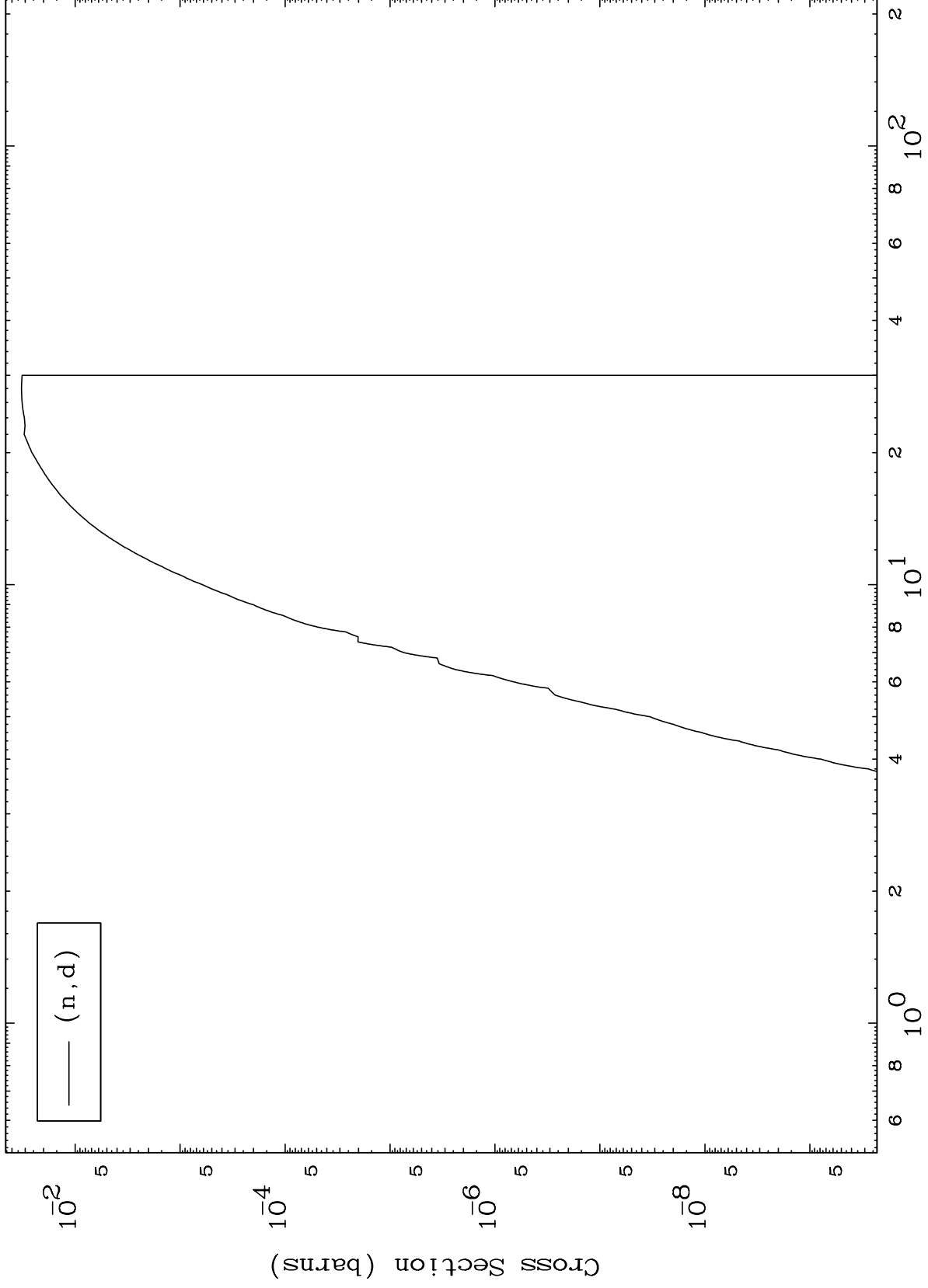
Incident Energy (MeV)

61-Pm-139

MAT 6125

(n,d) Levels
293 Kelvin Cross Sections

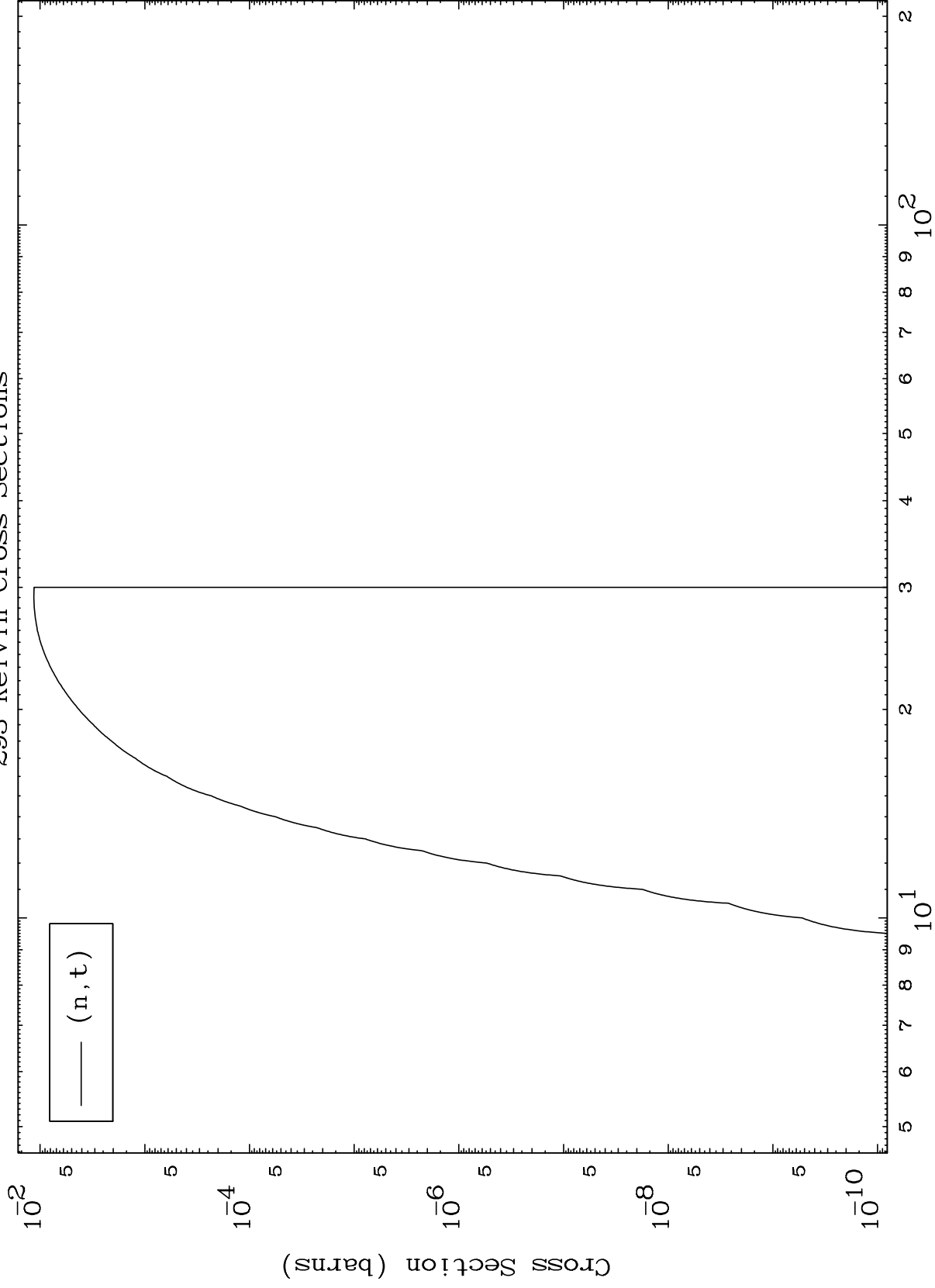
61-Pm-139



MAT 6125

(n,t) Levels
293 Kelvin Cross Sections

61-Pm-139



12

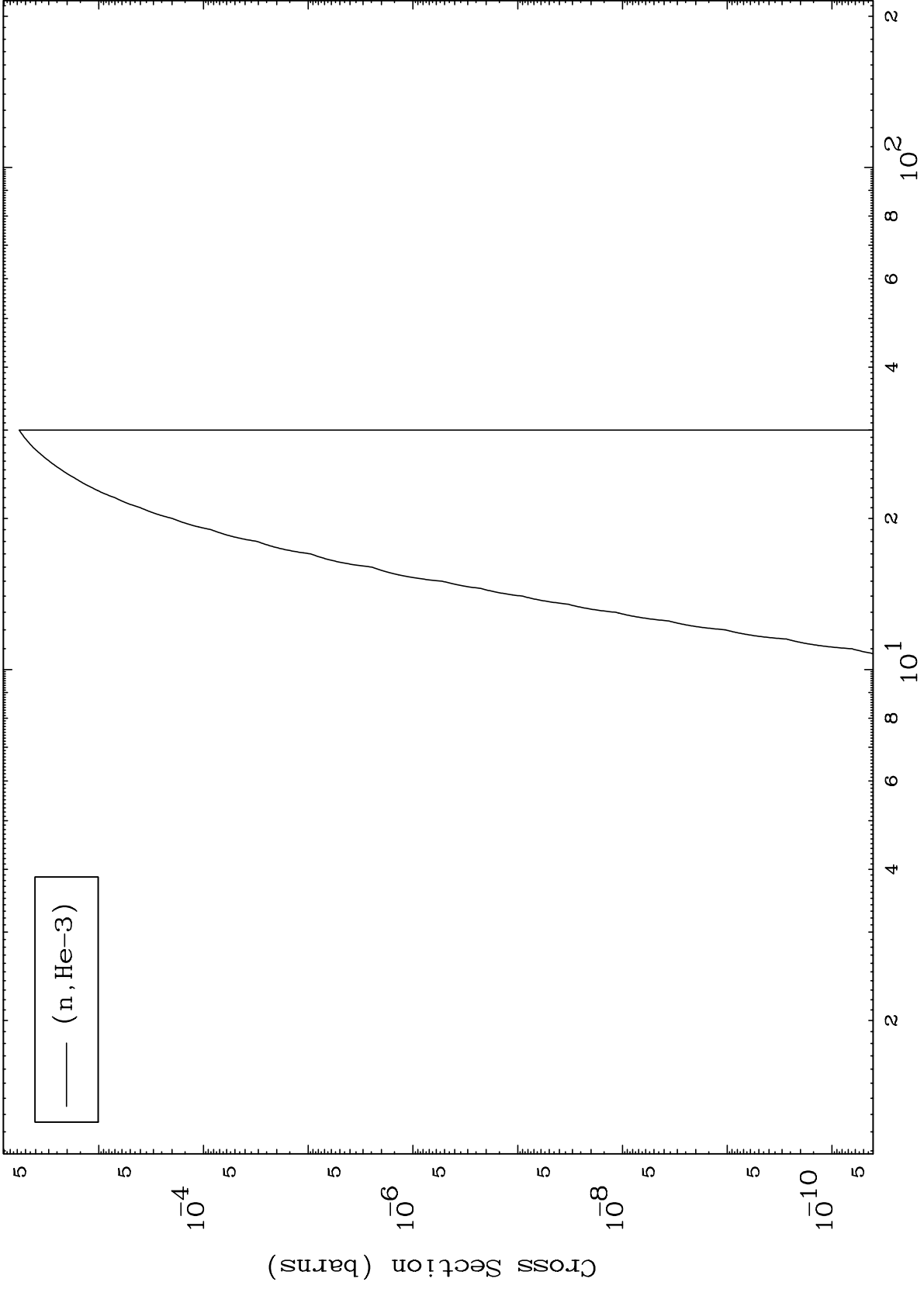
Incident Energy (MeV)

61-Pm-139

MAT 6125

(n,He3) Levels
293 Kelvin Cross Sections

61-Pm-139



13

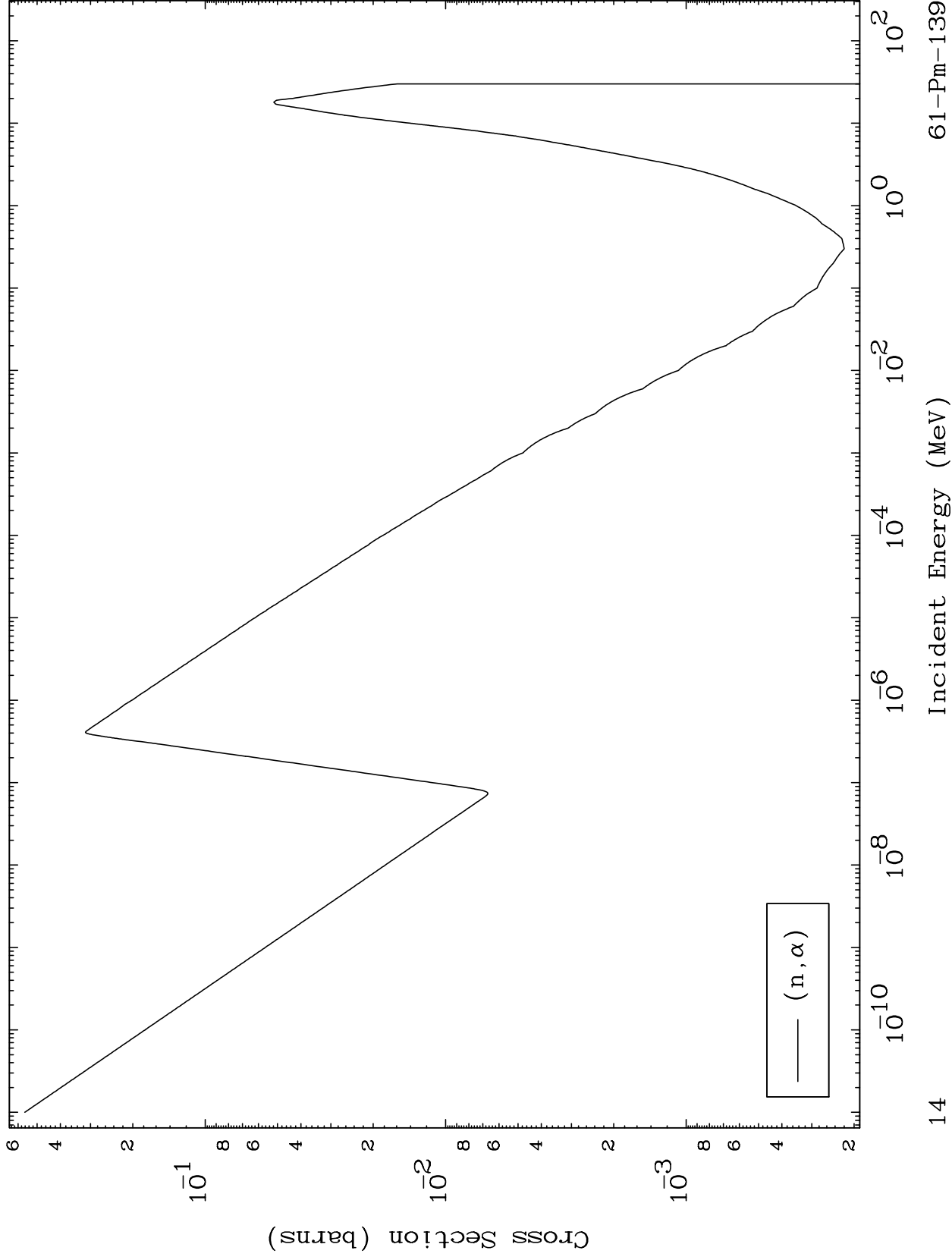
Incident Energy (MeV)

61-Pm-139

MAT 6125

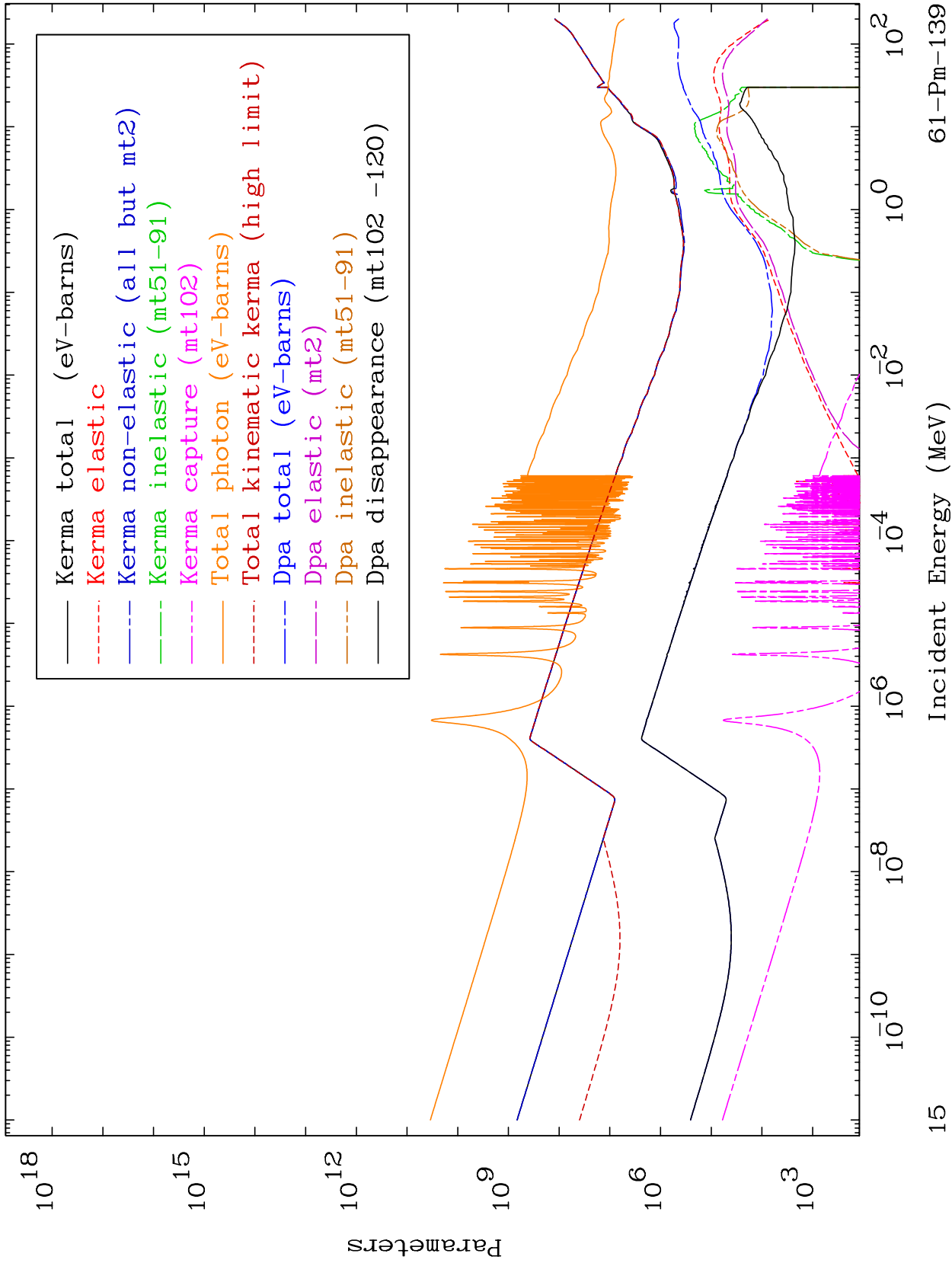
(n, α) Levels
293 Kelvin Cross Sections

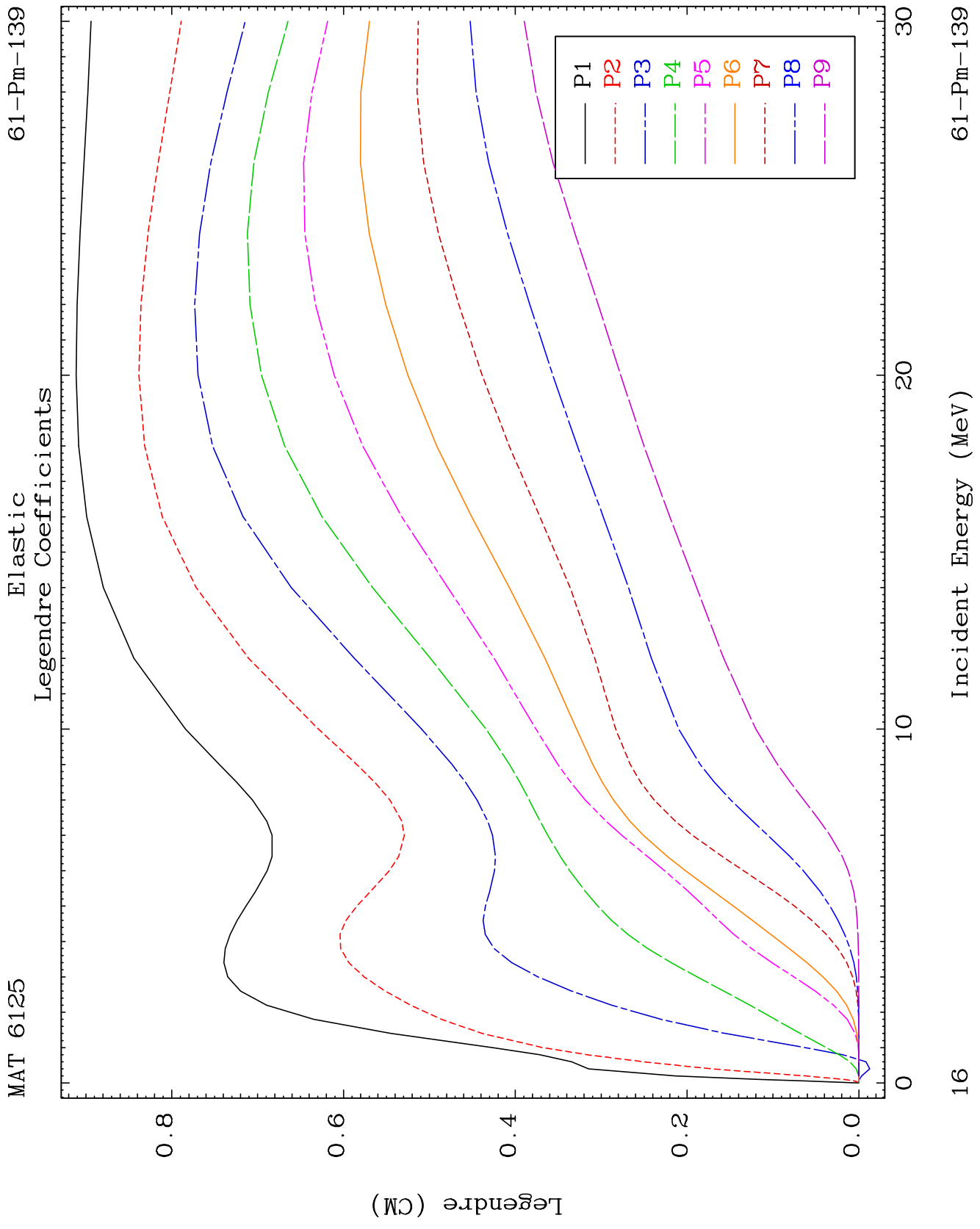
61-Pm-139



14

61-Pm-139

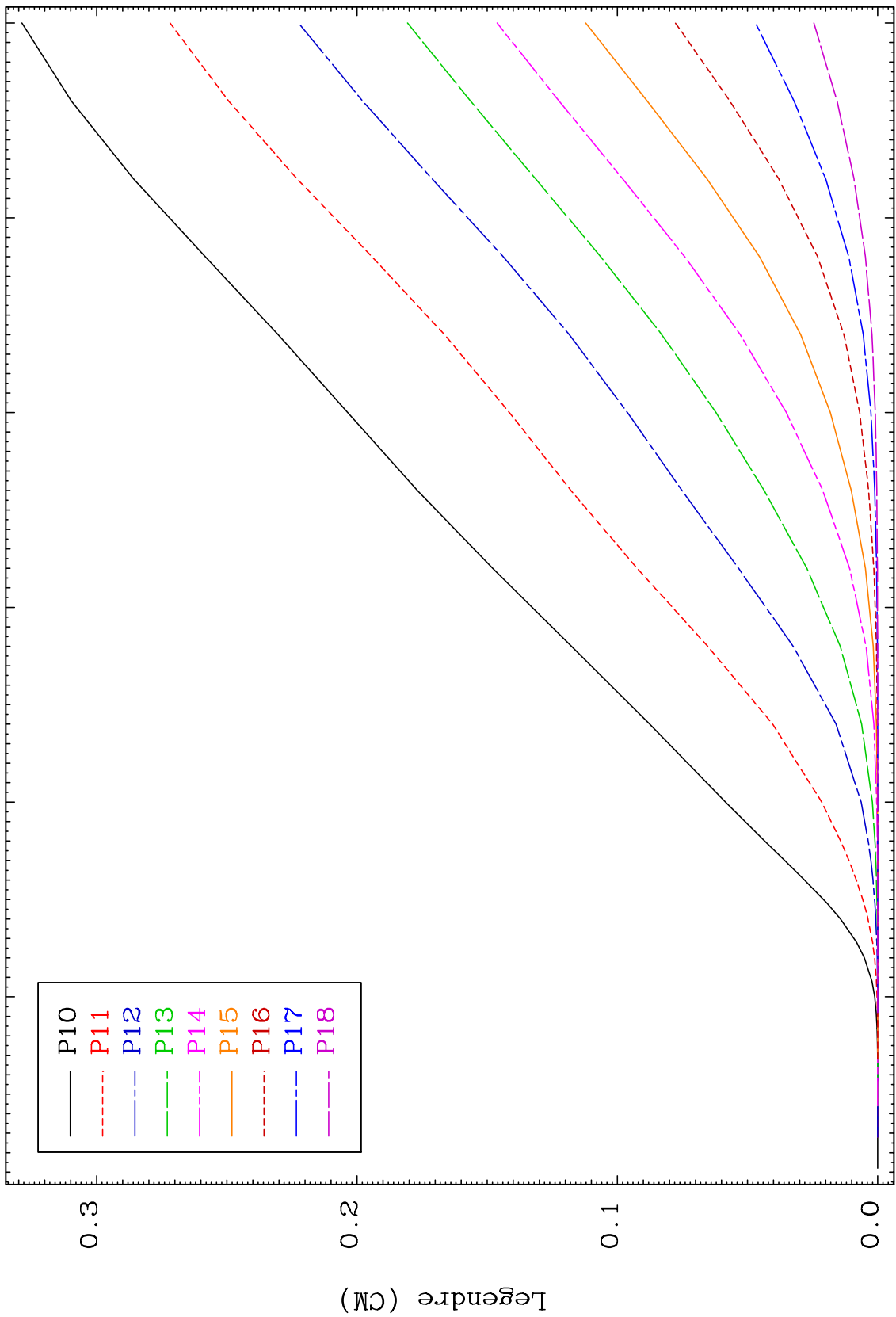




MAT 6125

Elastic Legendre Coefficients

61-Pm-139



17

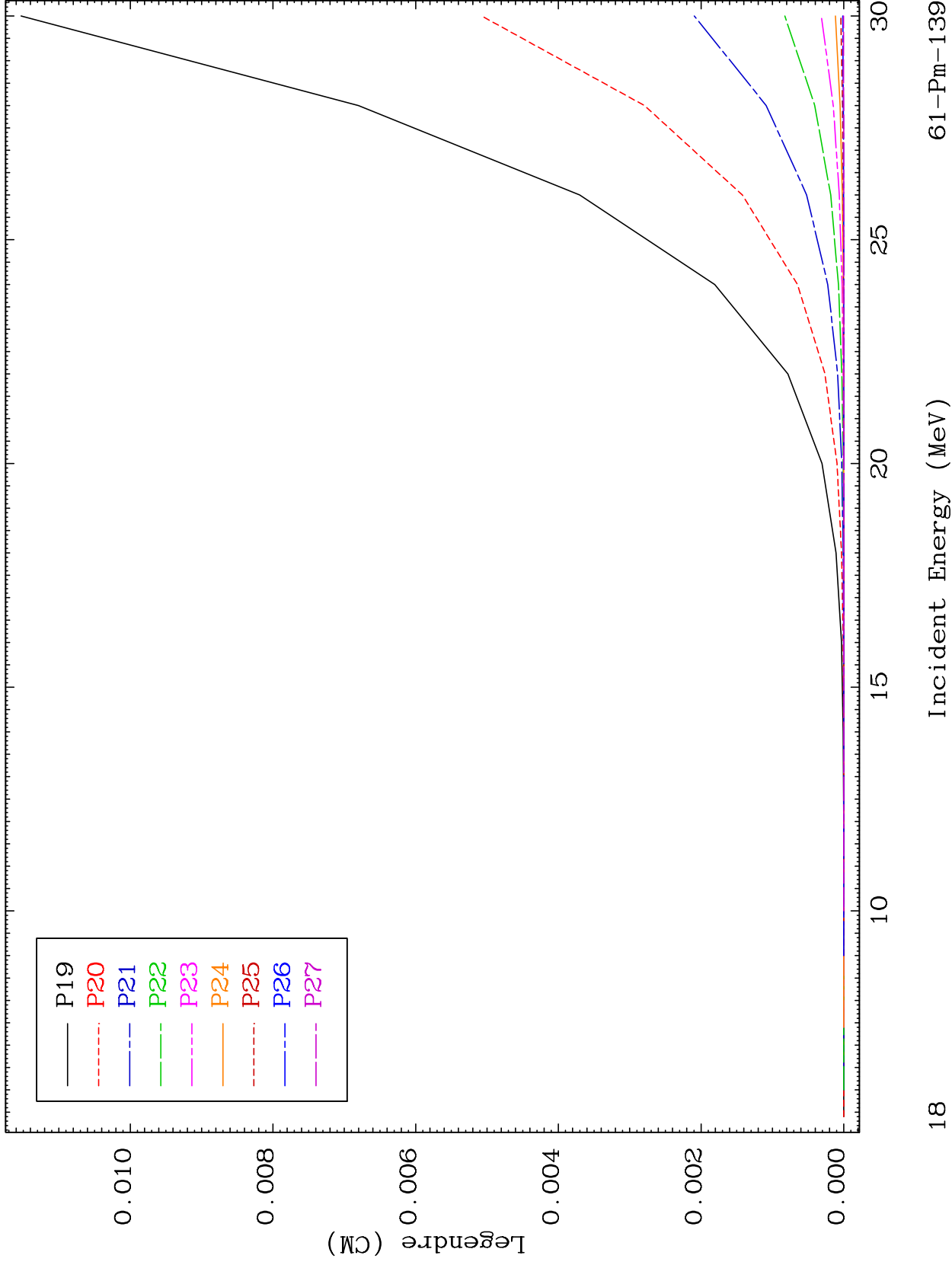
Incident Energy (MeV)

61-Pm-139

MAT 6125

Elastic Legendre Coefficients

61-Pm-139



18

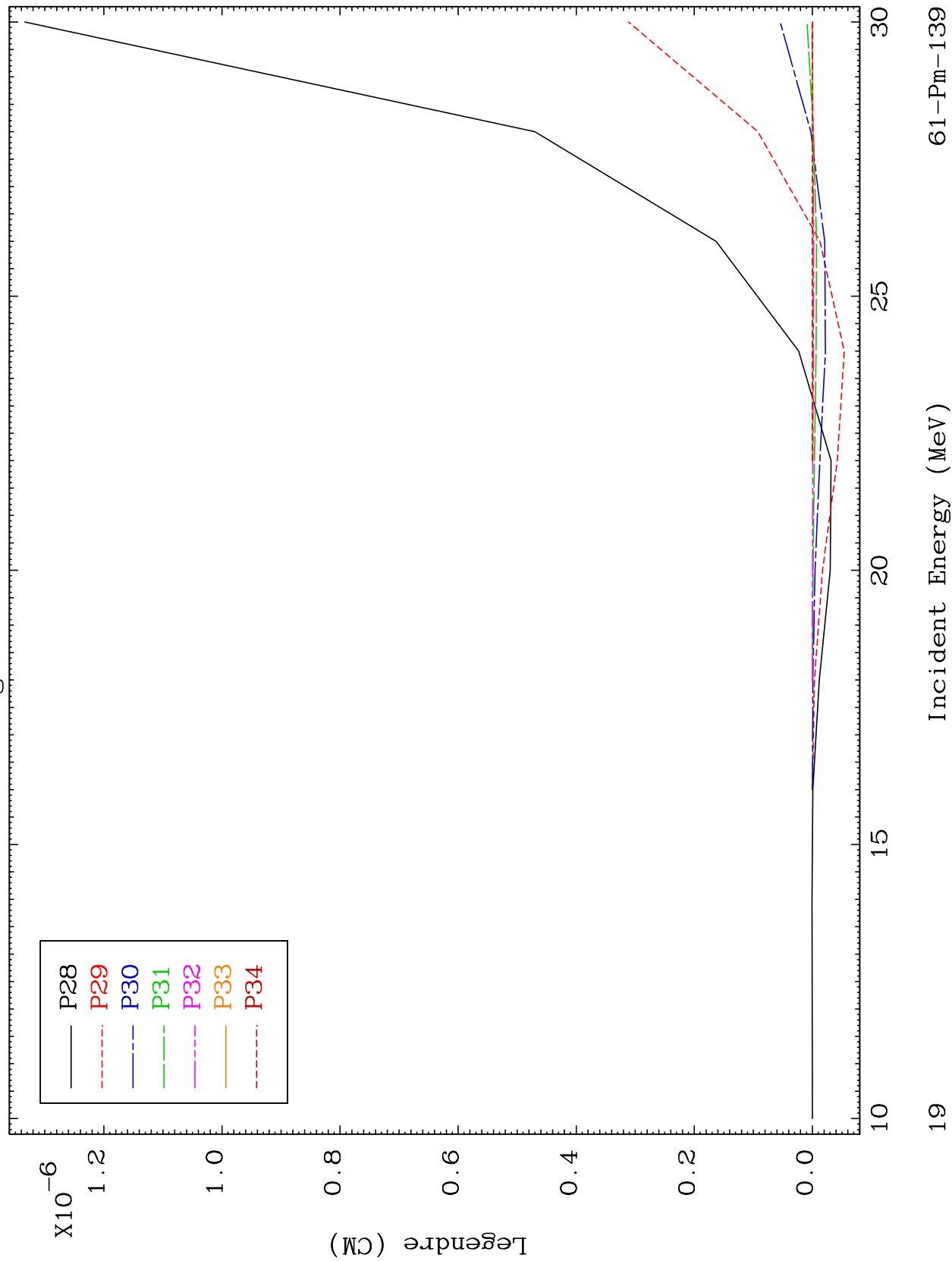
Incident Energy (MeV)

61-Pm-139

MAT 6125

Elastic Legendre Coefficients

61-Pm-139



19

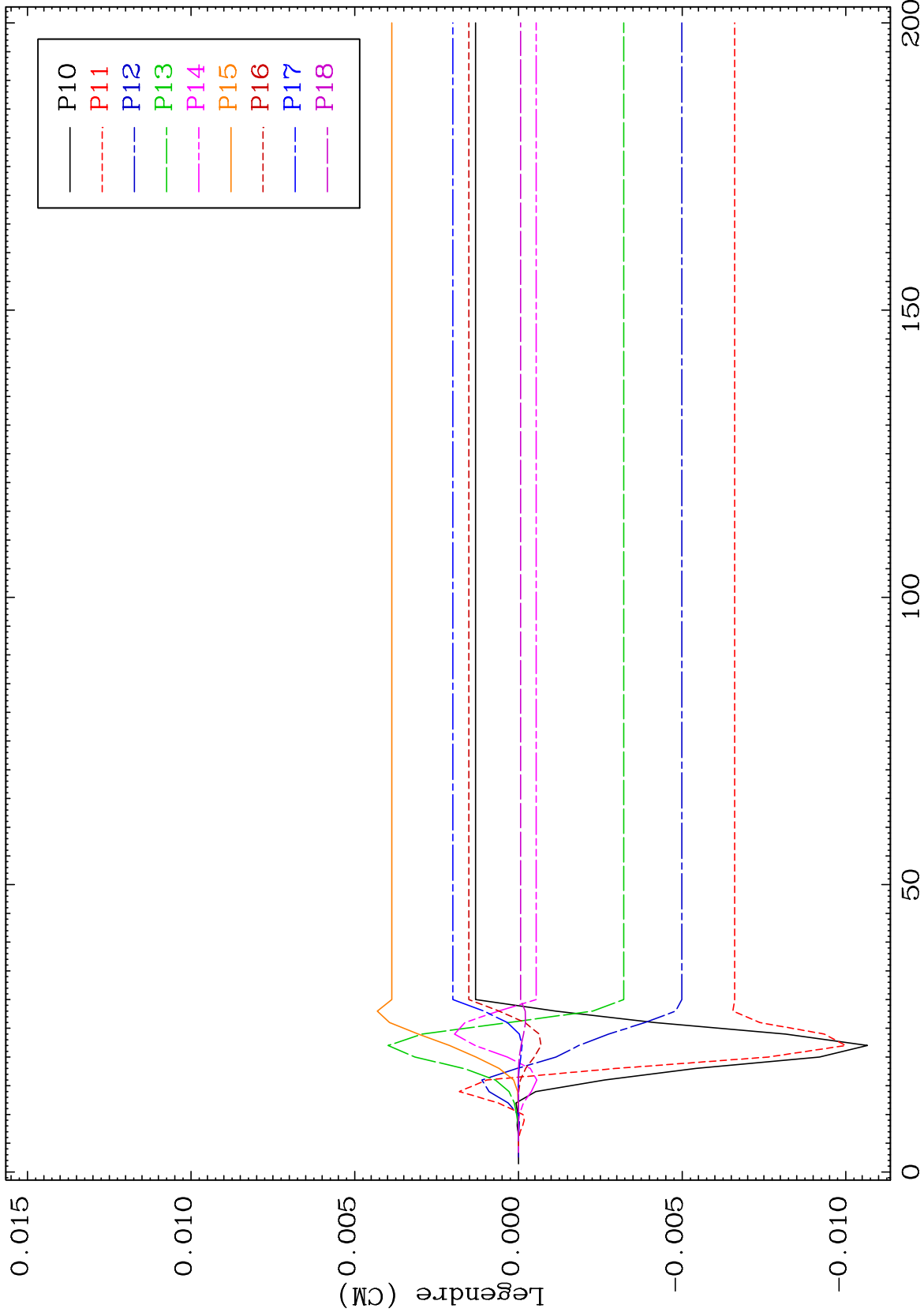
Incident Energy (MeV)

61-Pm-139

MAT 6125

188.7 keV (n,n') Level
Legendre Coefficients

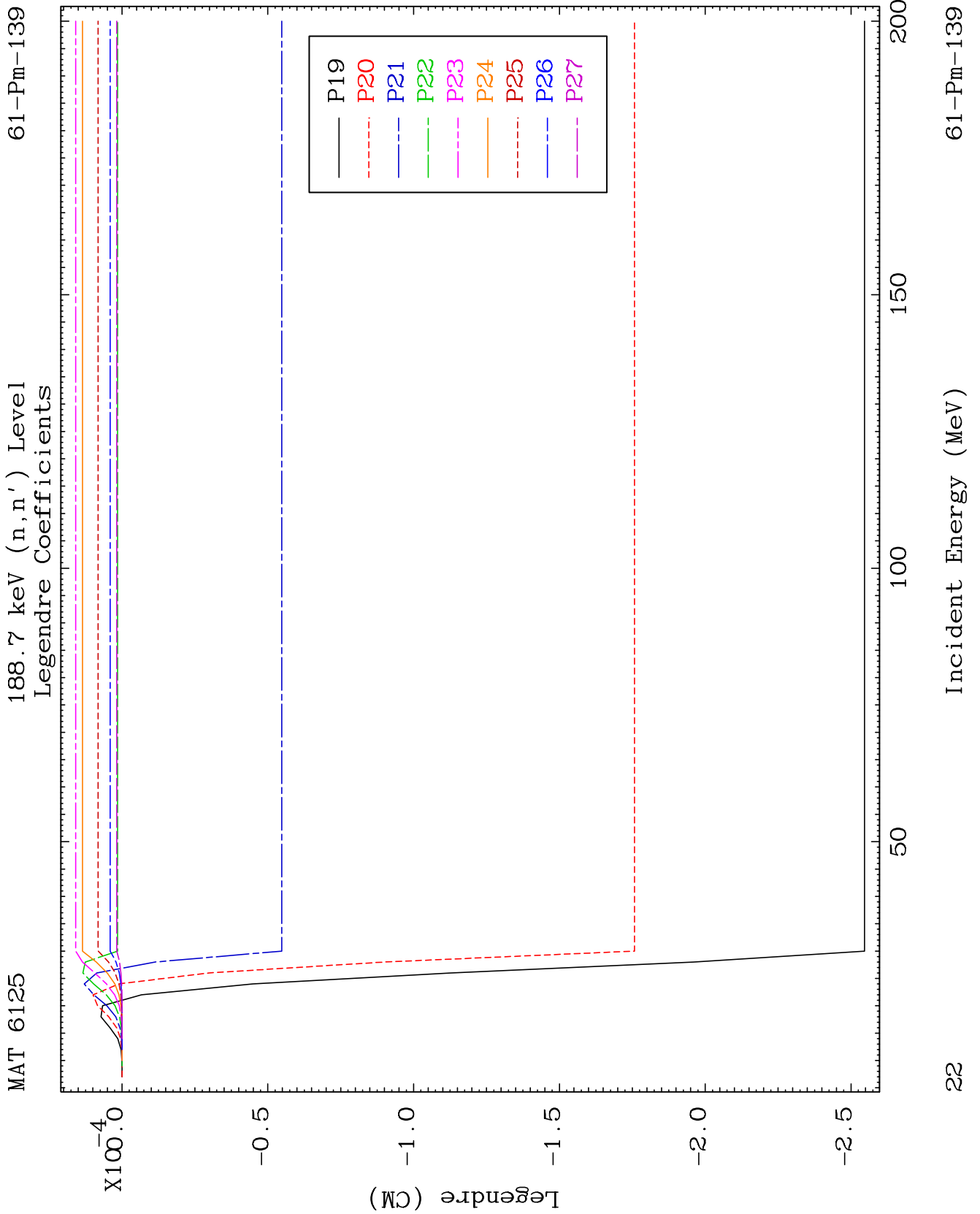
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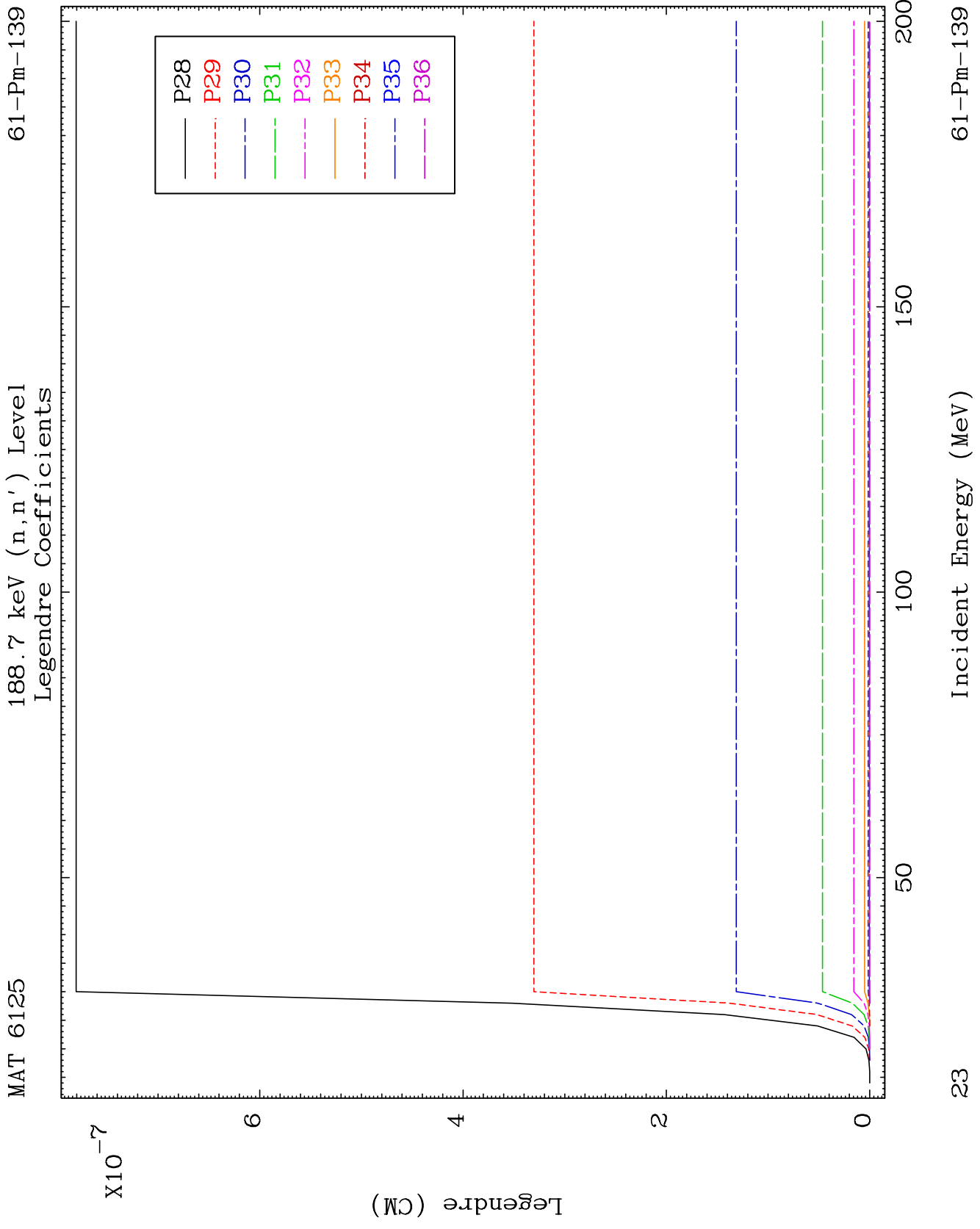


21

Incident Energy (MeV)

61-Pm-139

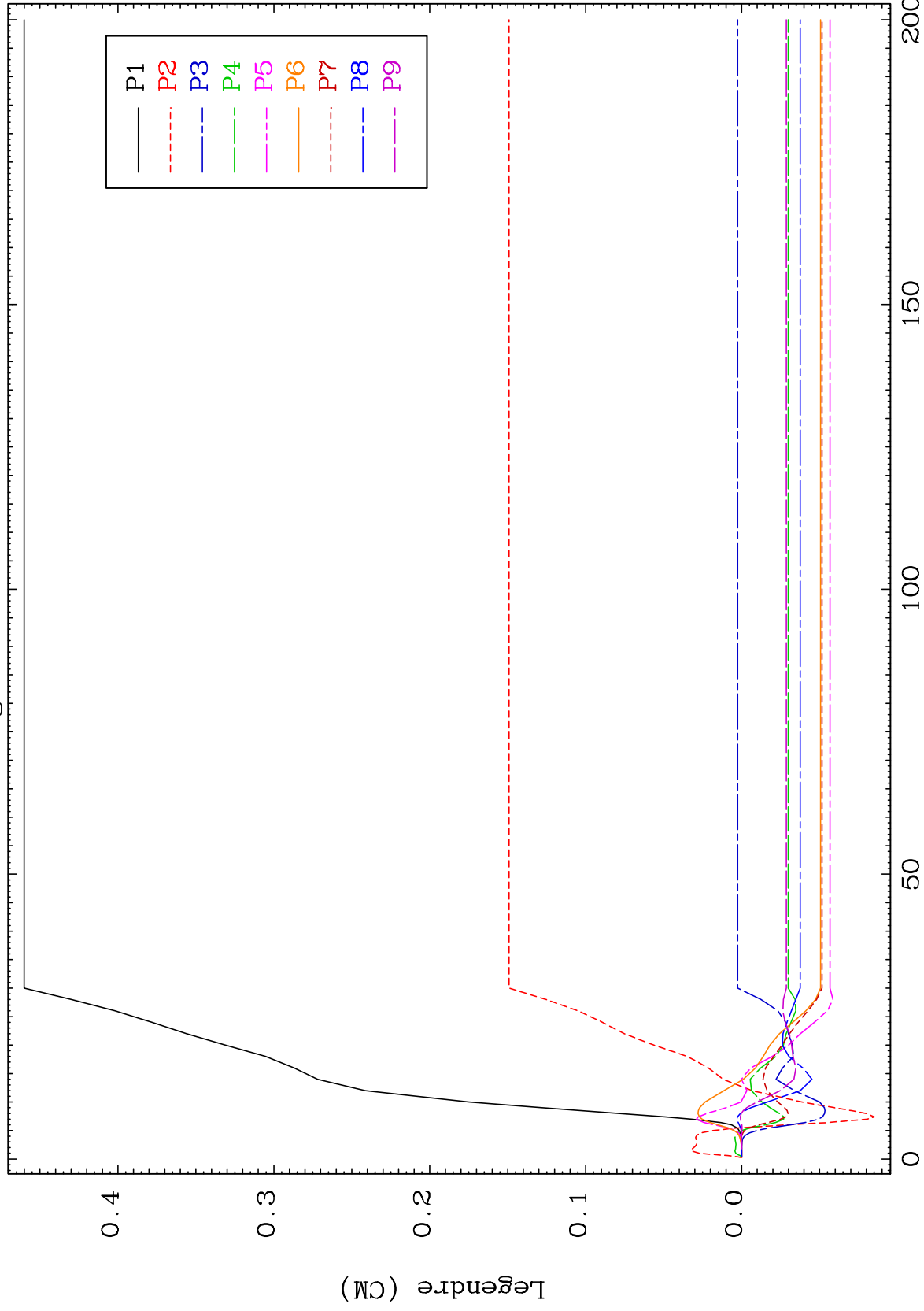




MAT 6125

228.0 keV (n,n') Level
Legendre Coefficients

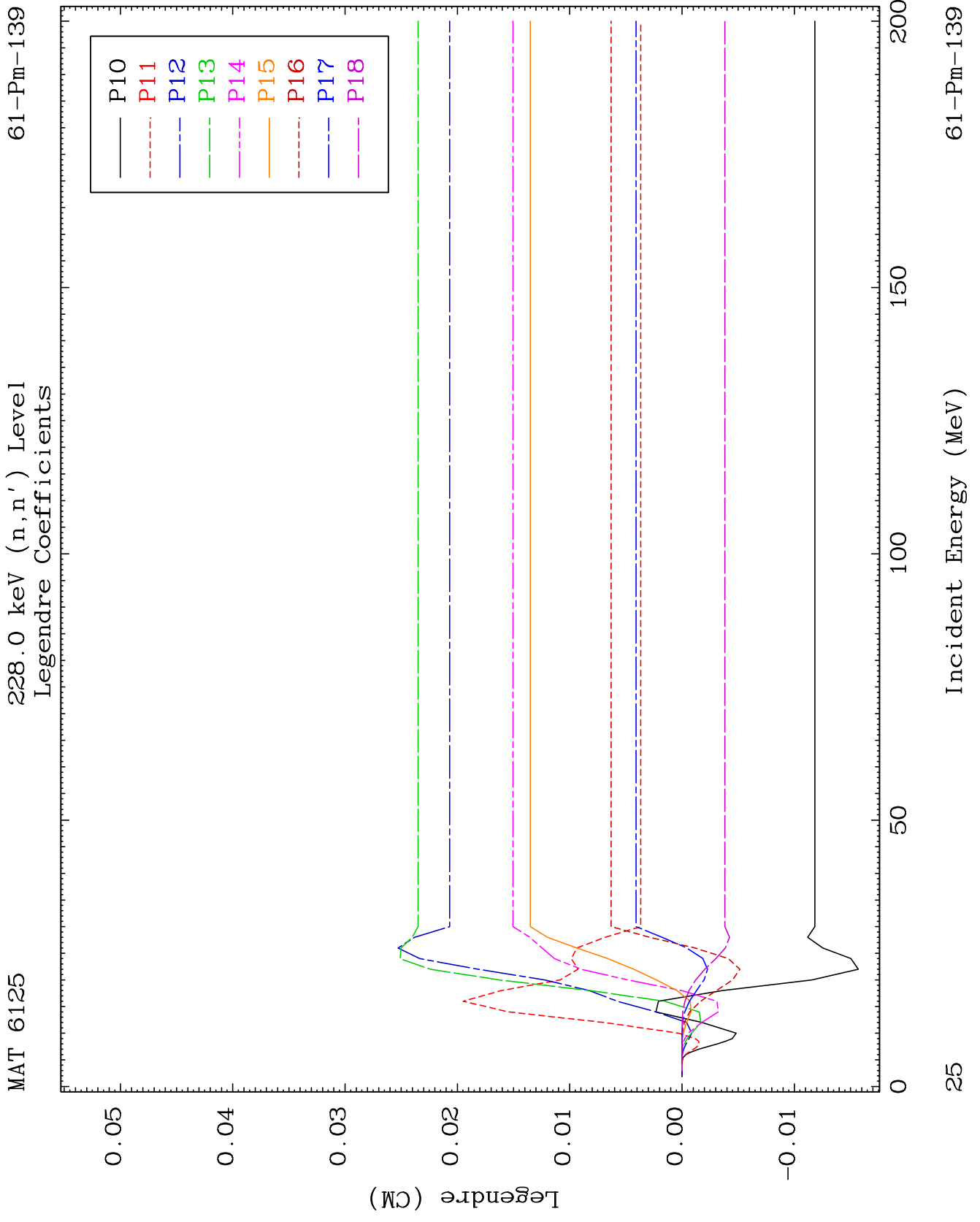
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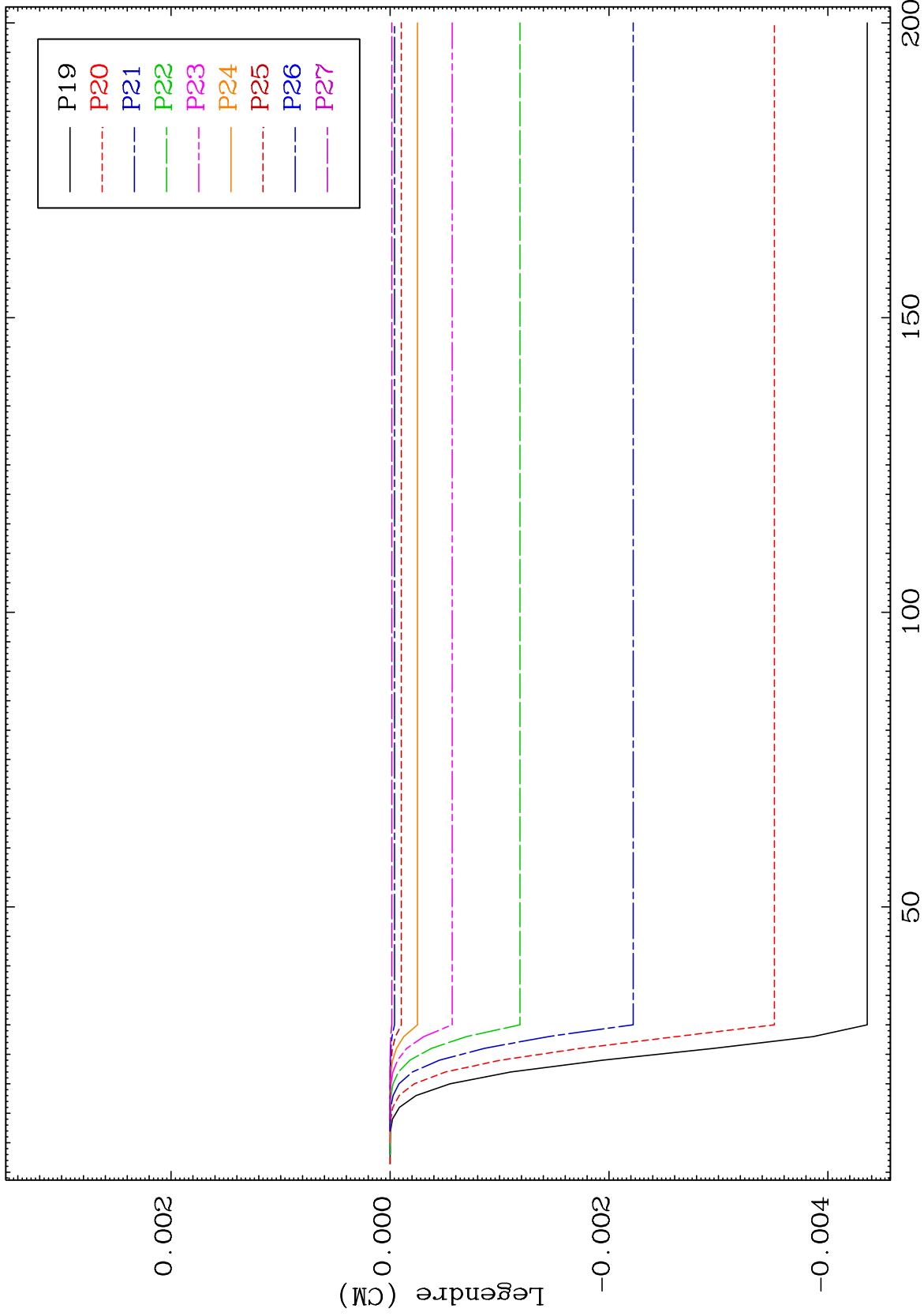


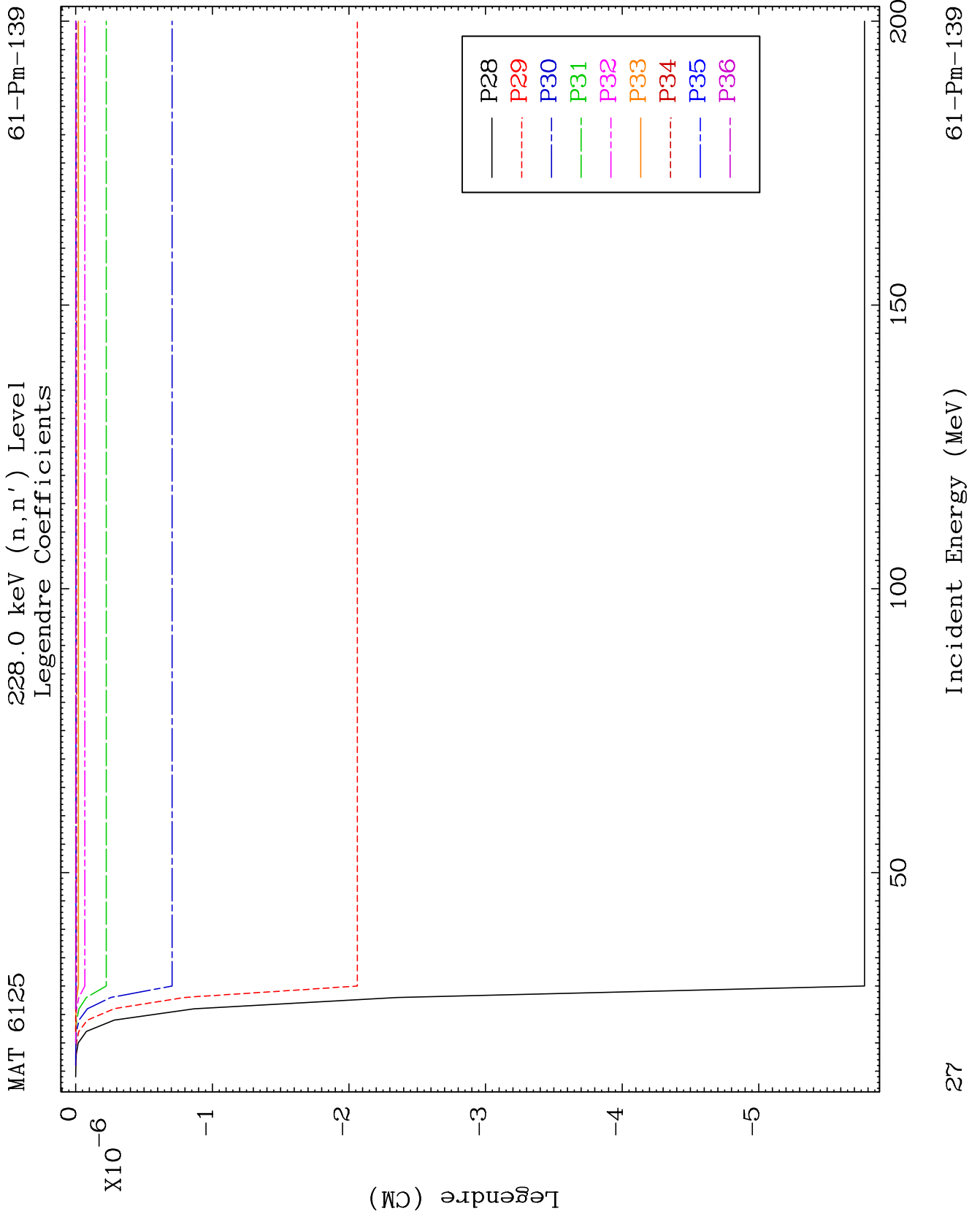
24

Incident Energy (MeV)

61-Pm-139



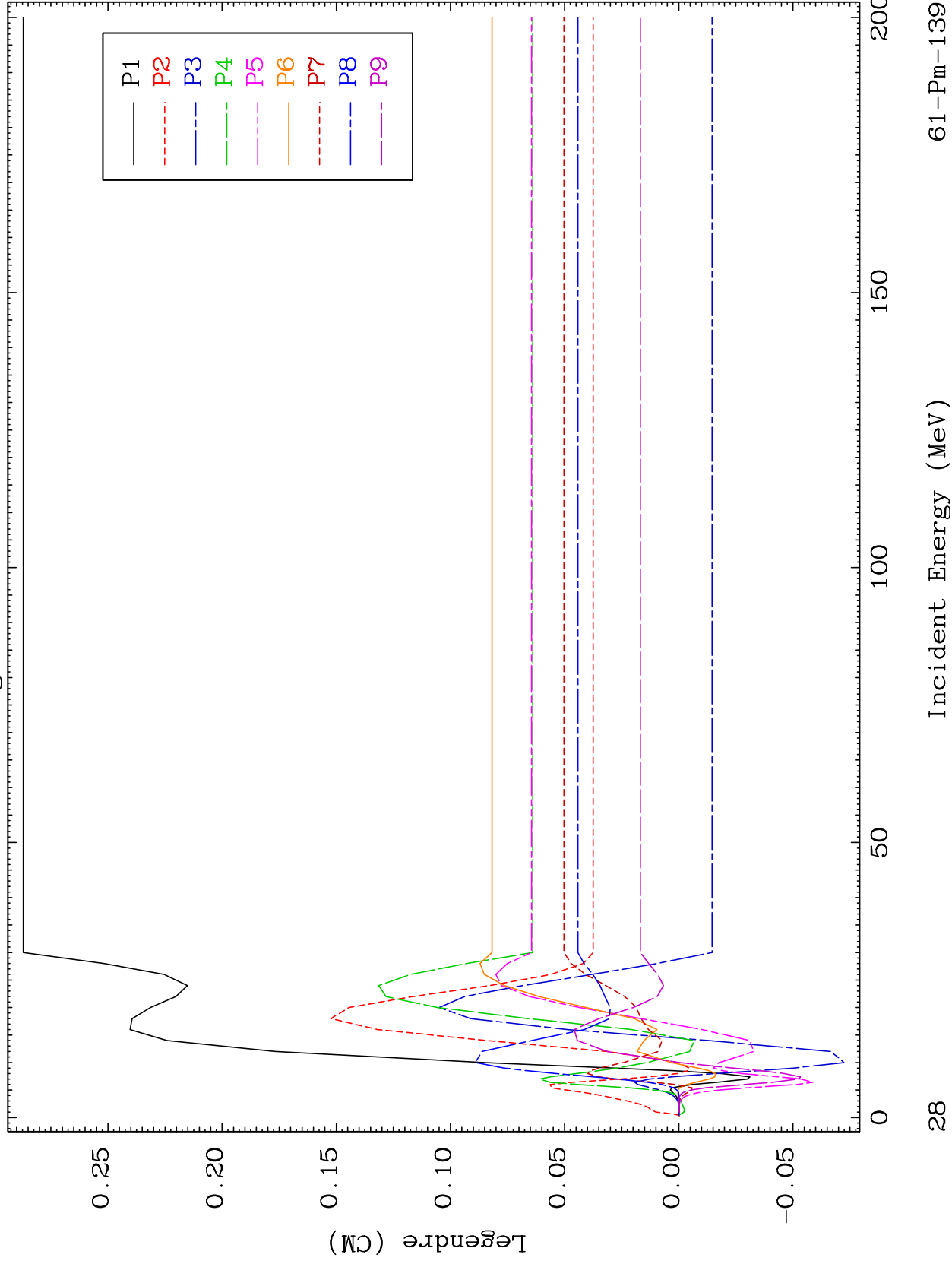




MAT 6125

273.7 keV (n,n') Level
Legendre Coefficients

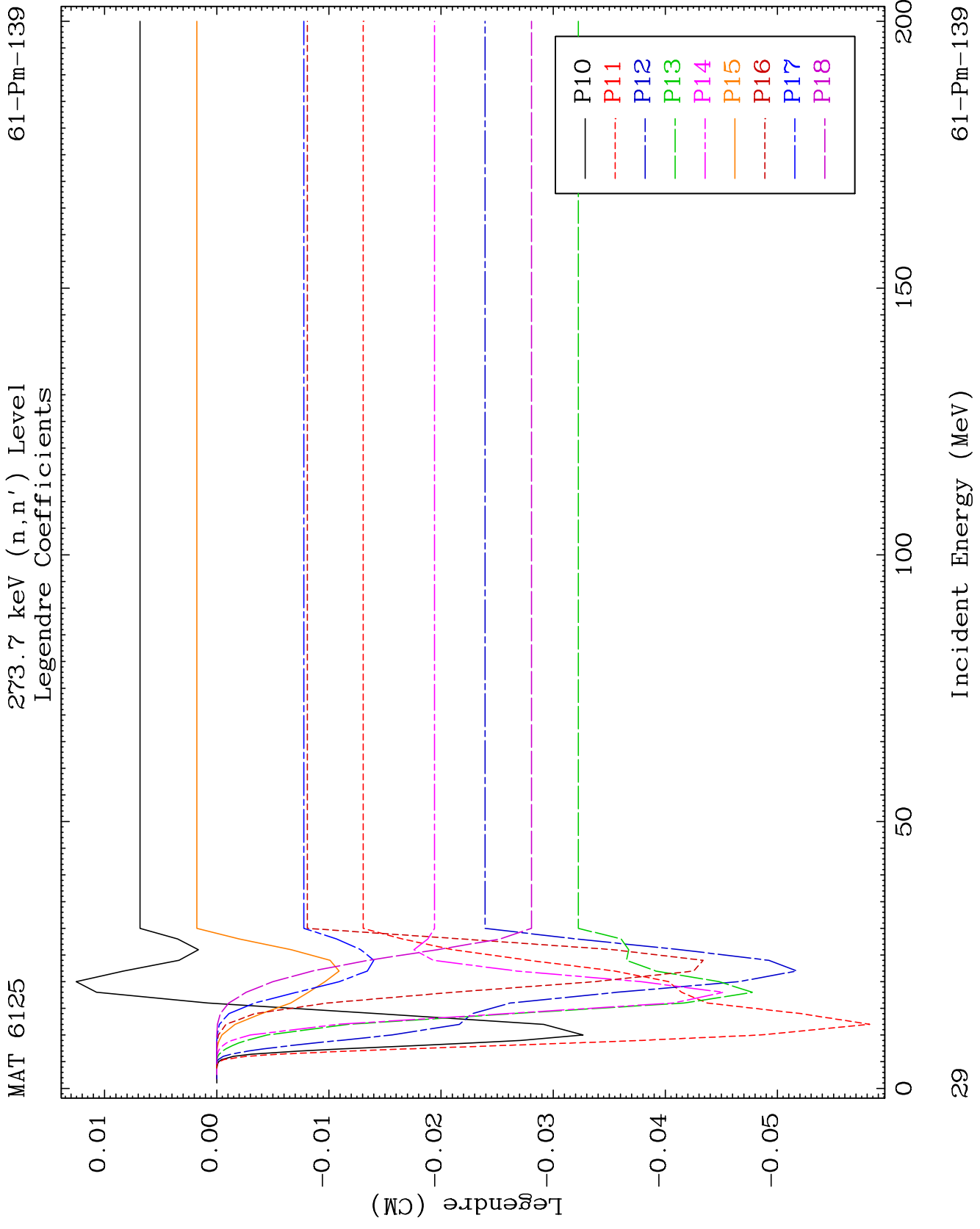
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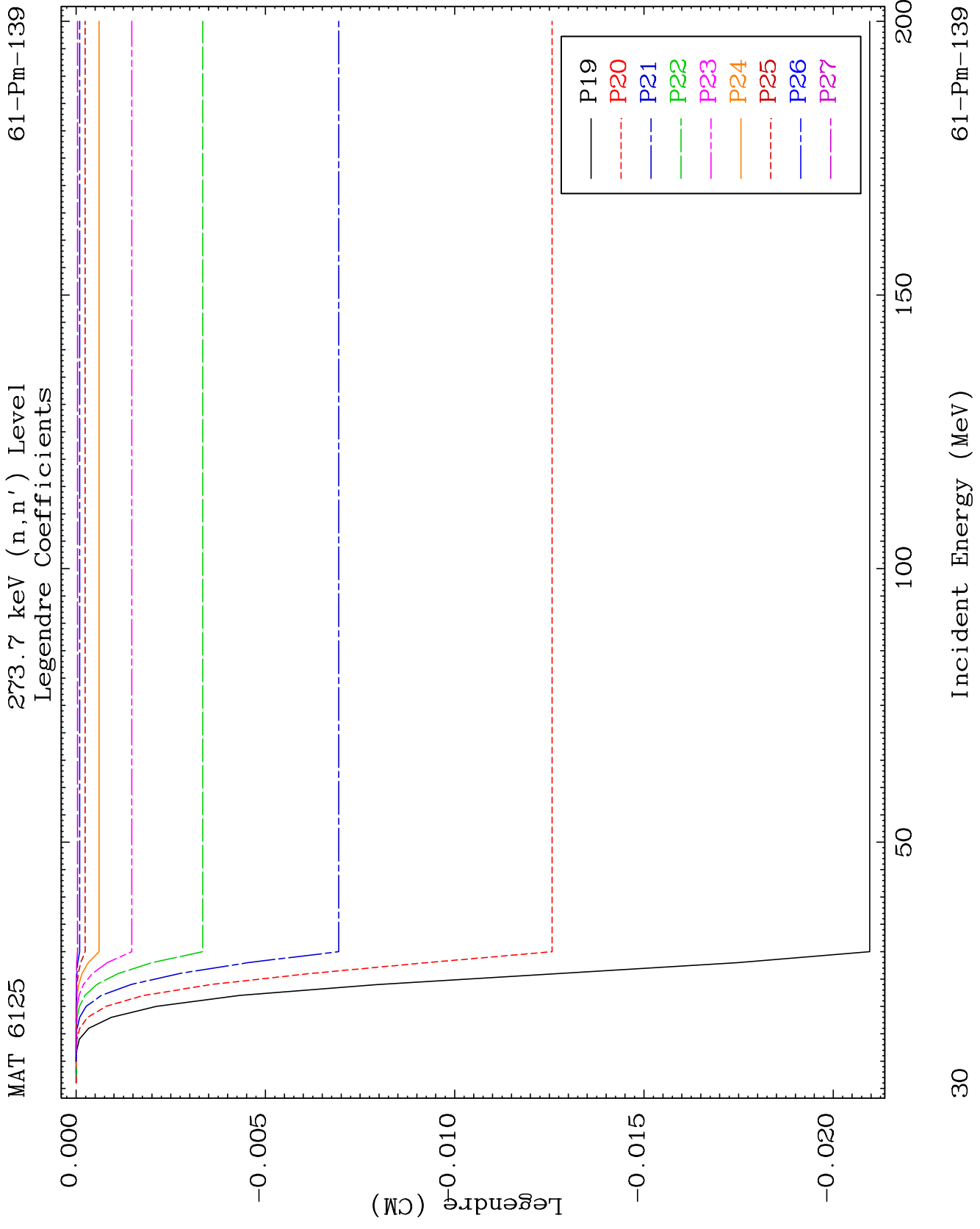


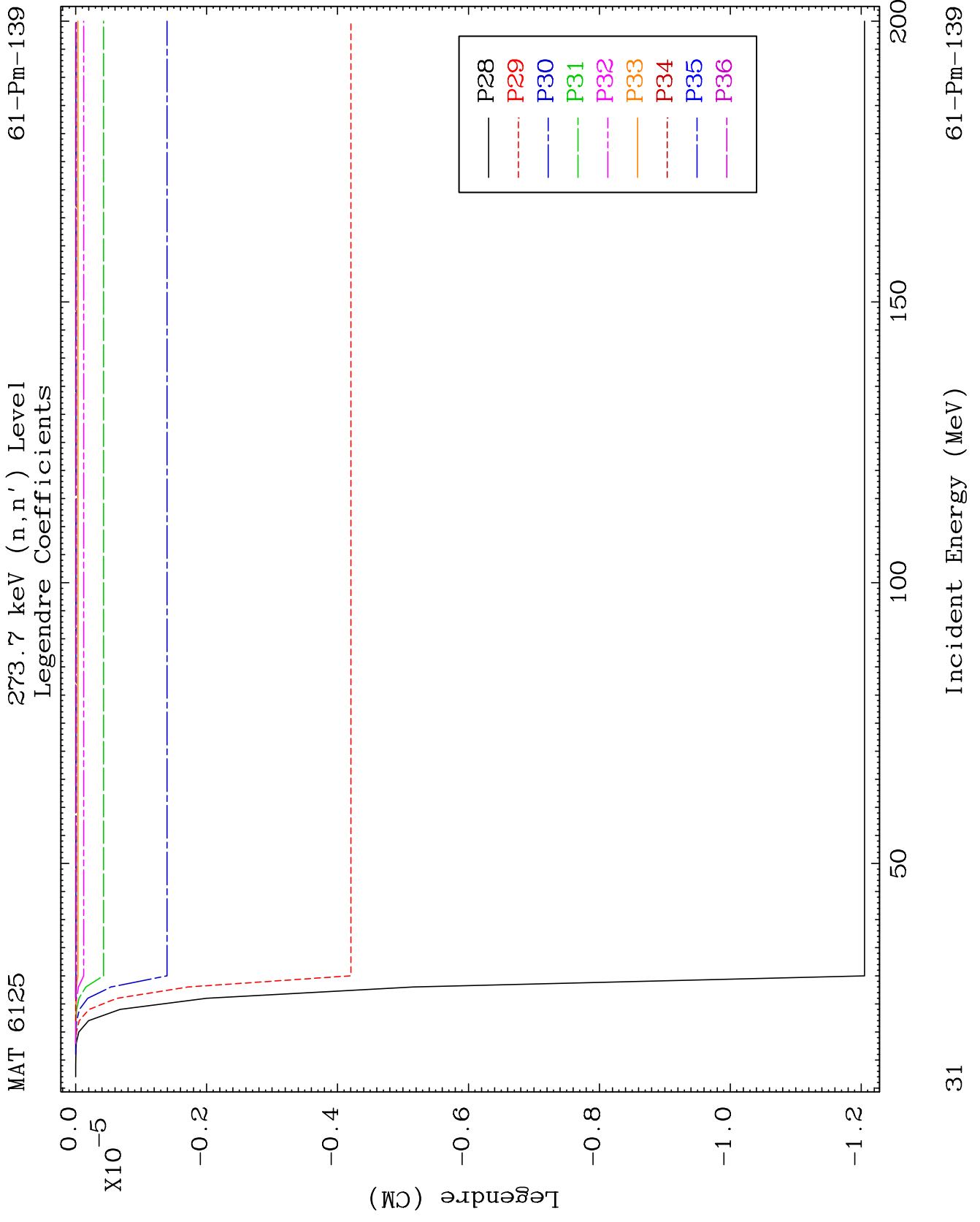
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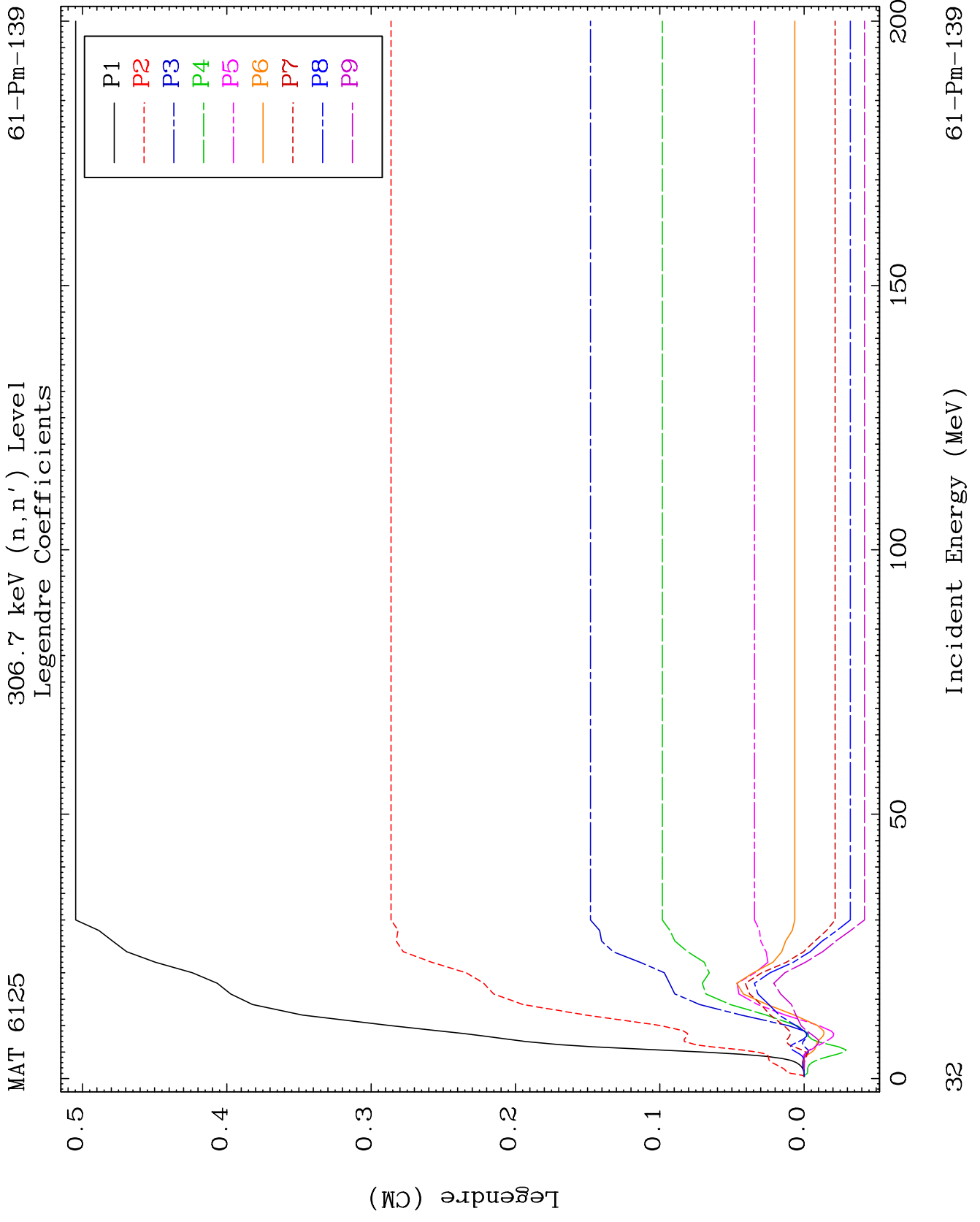
Incident Energy (MeV)

28





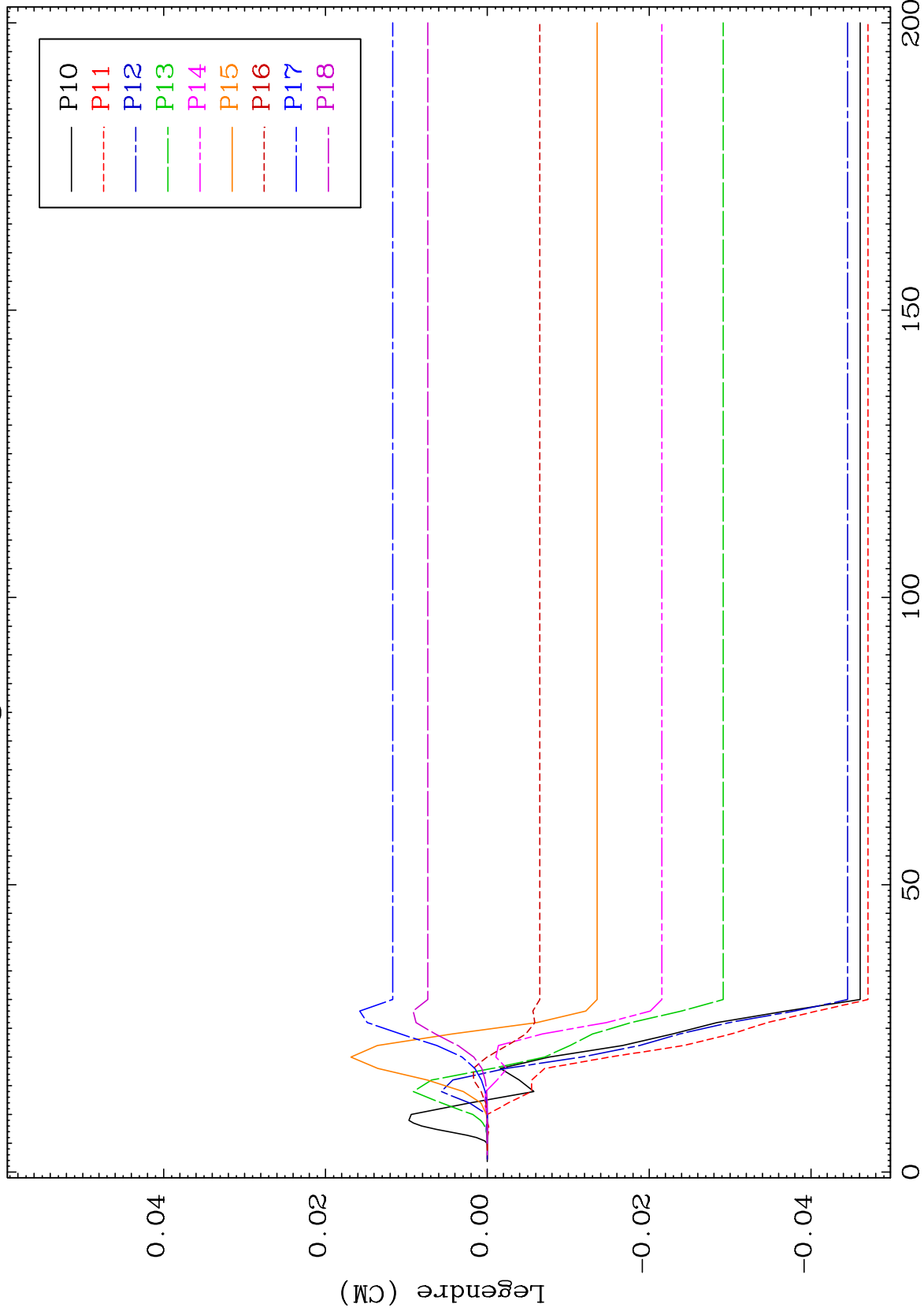




MAT 6125

306.7 keV (n,n') Level
Legendre Coefficients

61-Pm-139



33

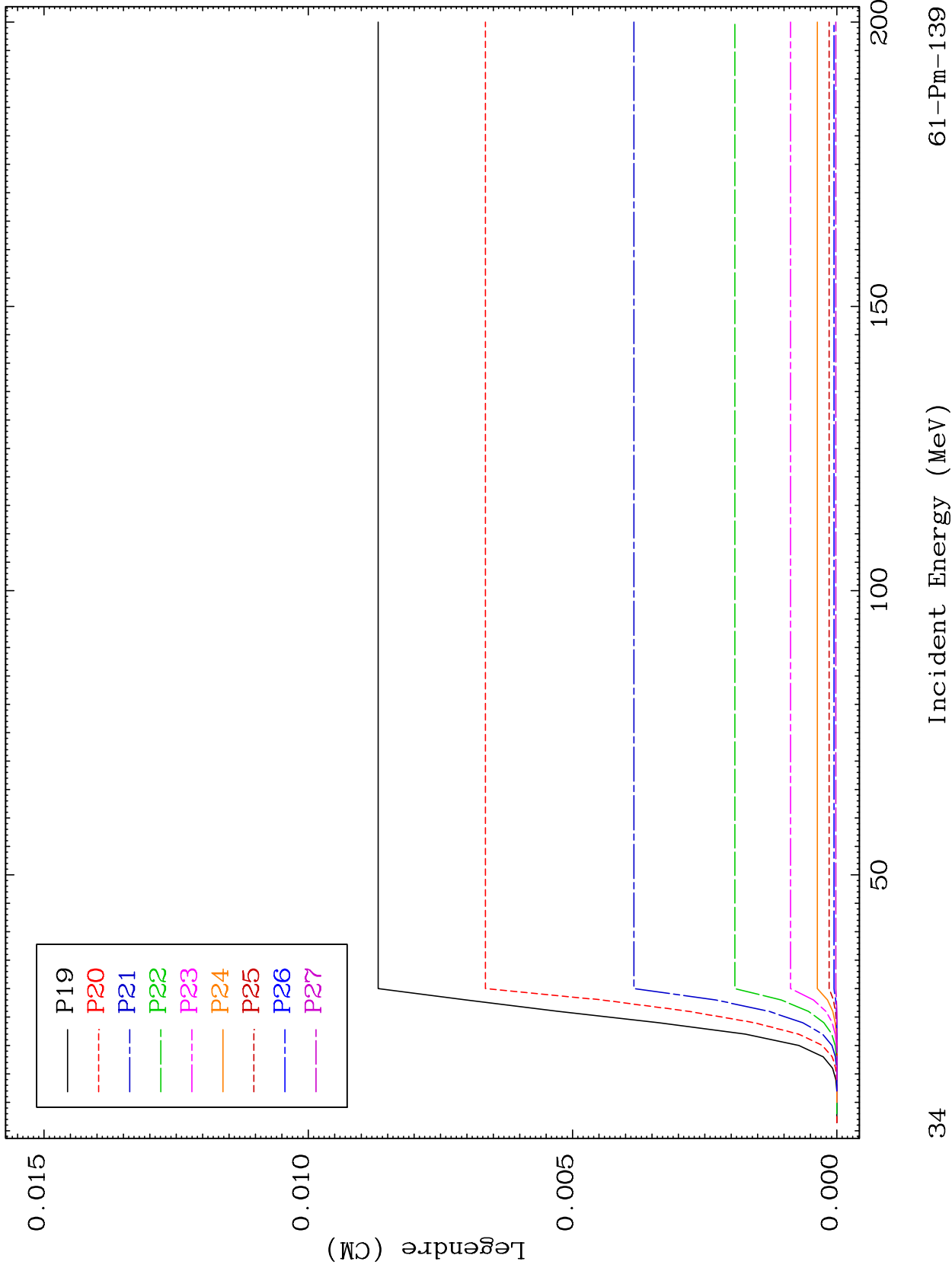
Incident Energy (MeV)

61-Pm-139

MAT 6125

306.7 keV (n,n') Level
Legendre Coefficients

61-Pm-139



34

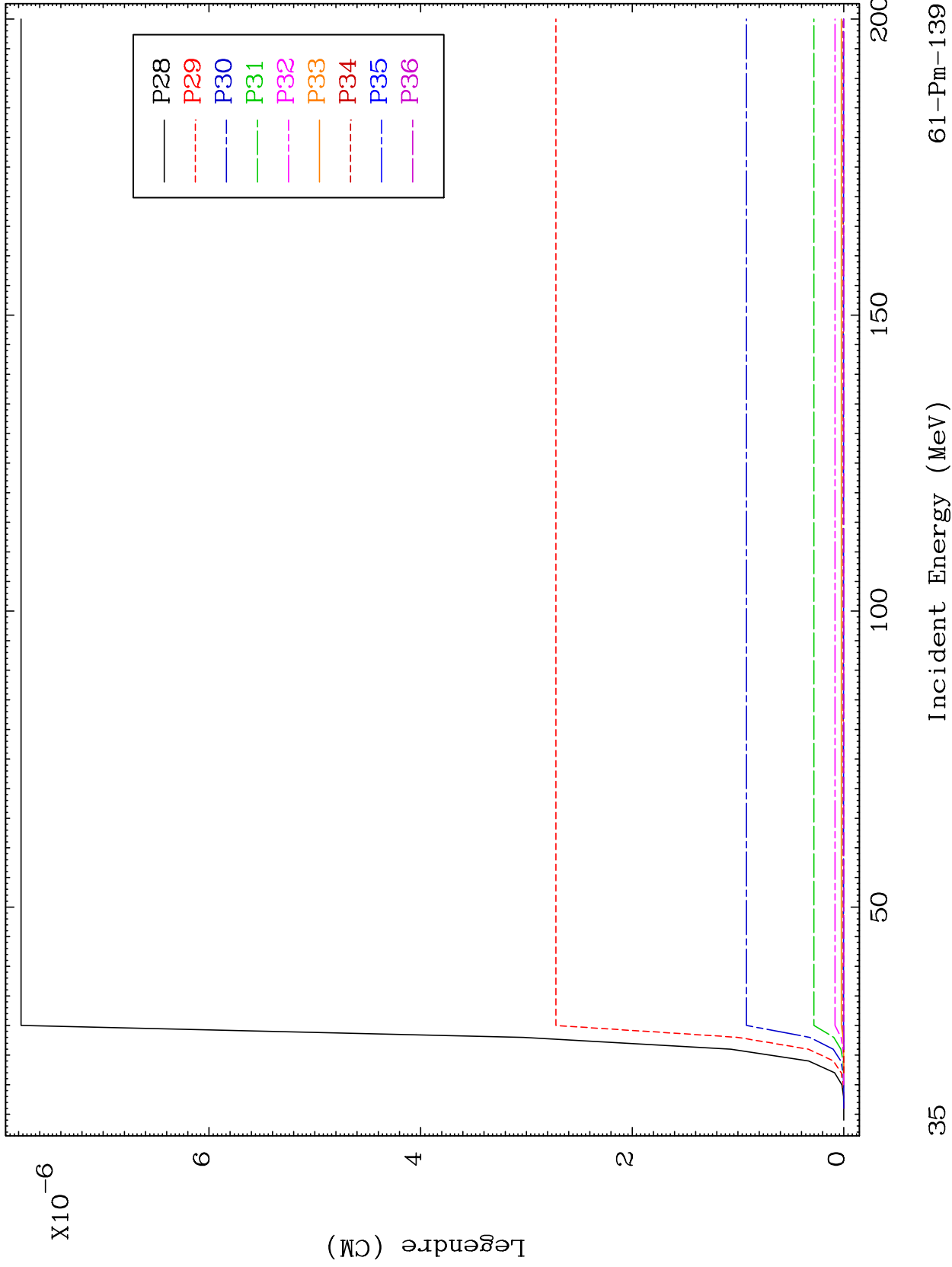
Incident Energy (MeV)

61-Pm-139

MAT 6125

306.7 keV (n,n') Level
Legendre Coefficients

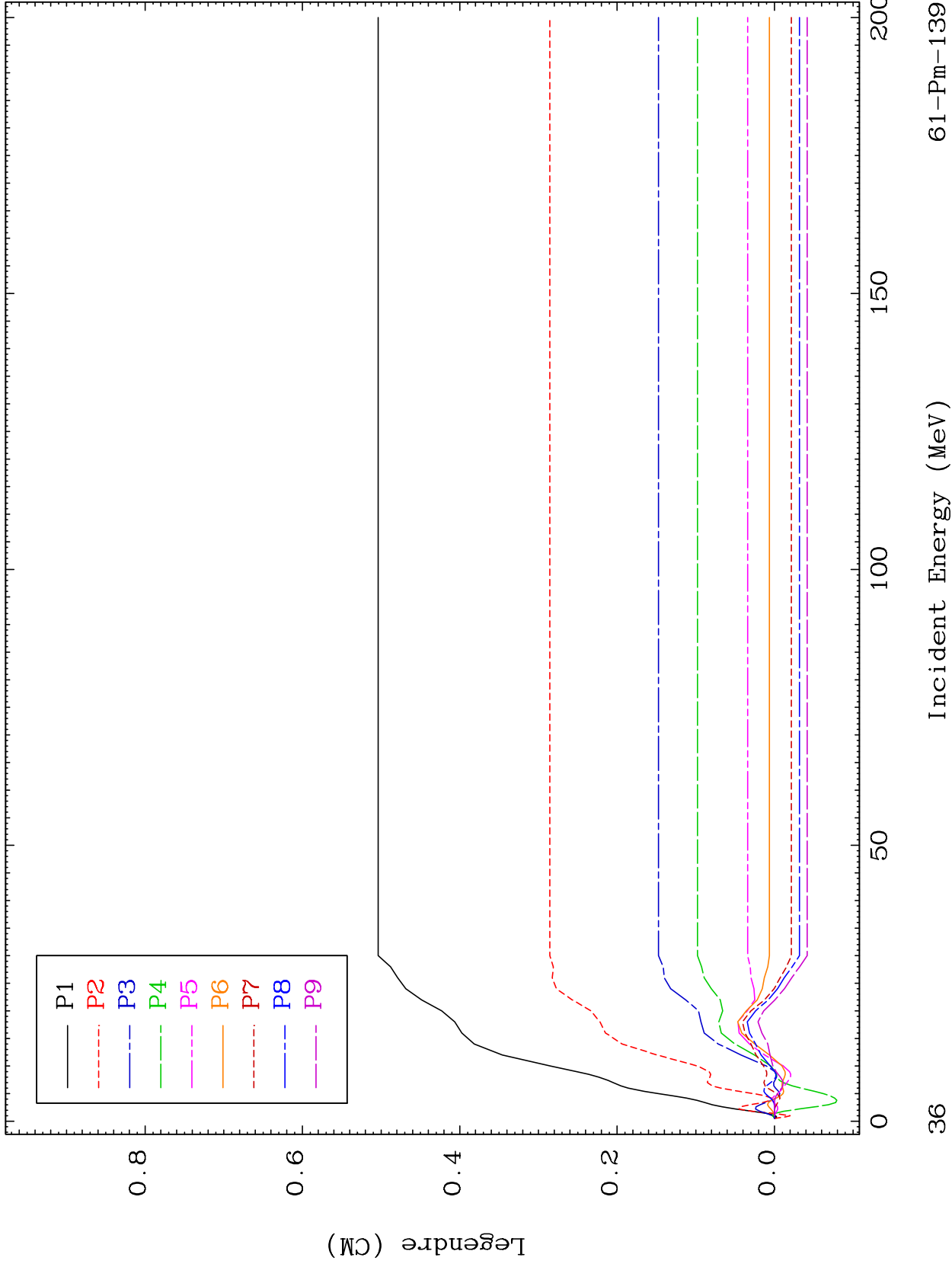
61-Pm-139



MAT 6125

462.7 keV (n,n') Level
Legendre Coefficients

61-Pm-139



36

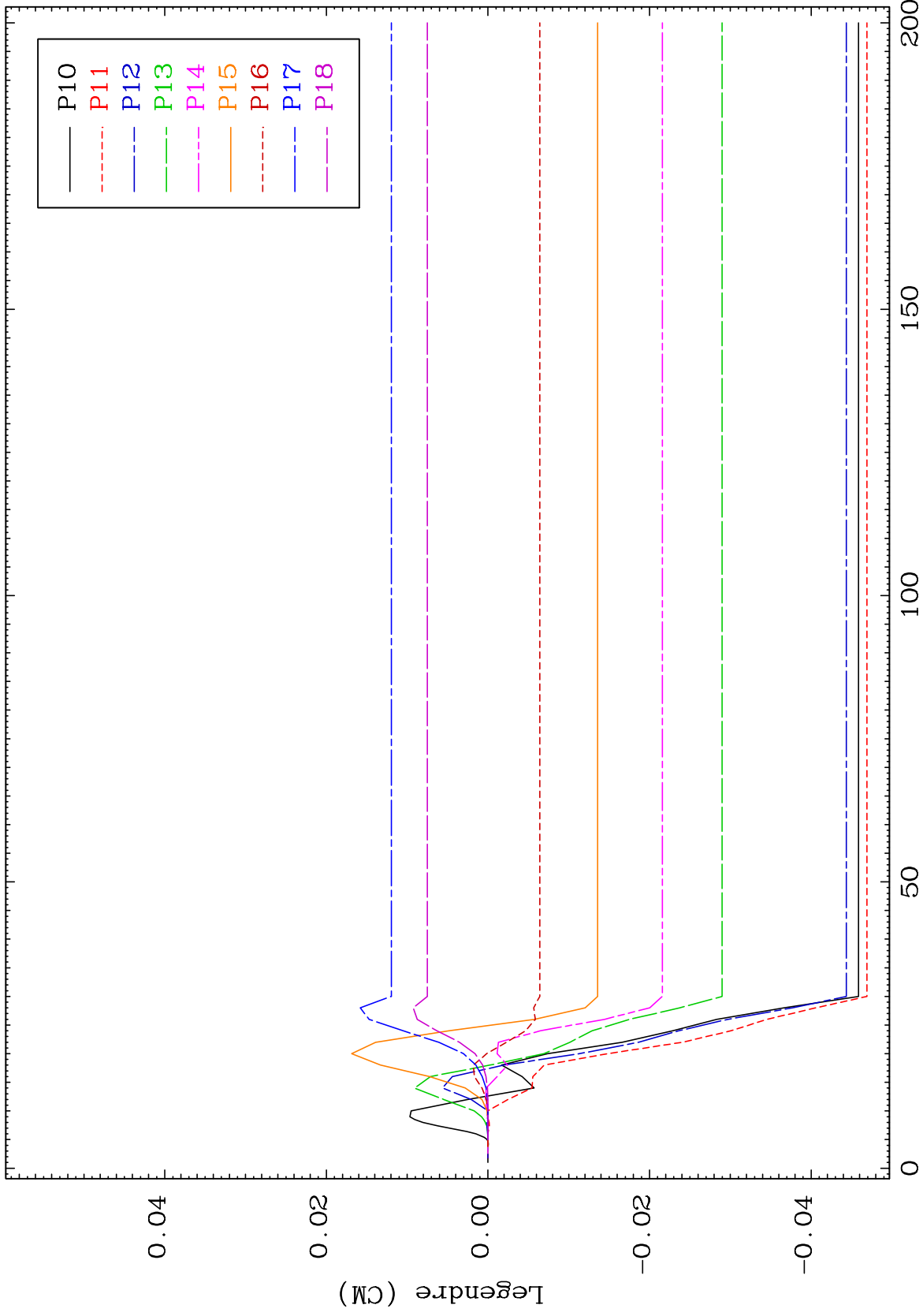
Incident Energy (MeV)

61-Pm-139

MAT 6125

462.7 keV (n,n') Level
Legendre Coefficients

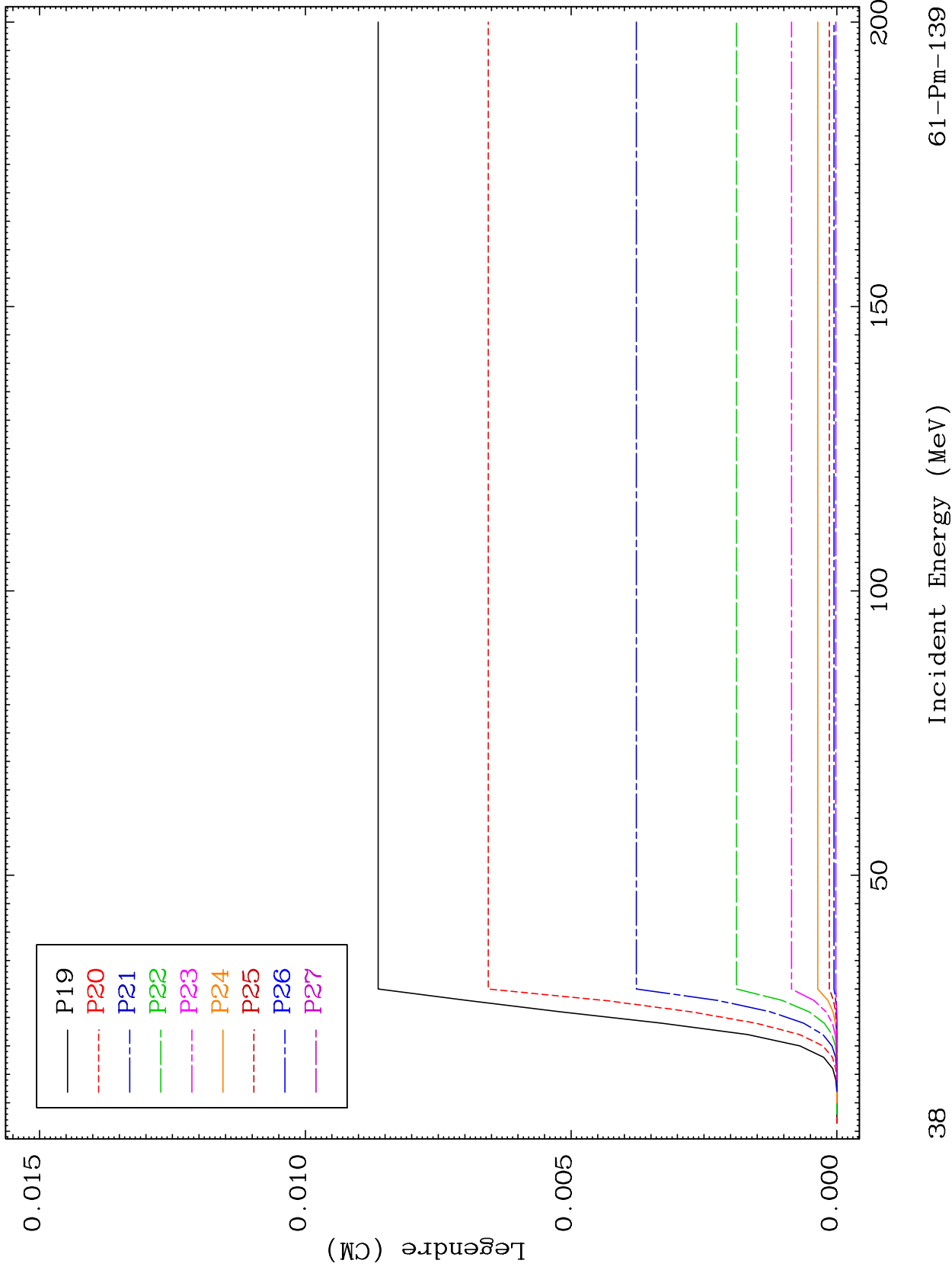
61-Pm-139



37

Incident Energy (MeV)

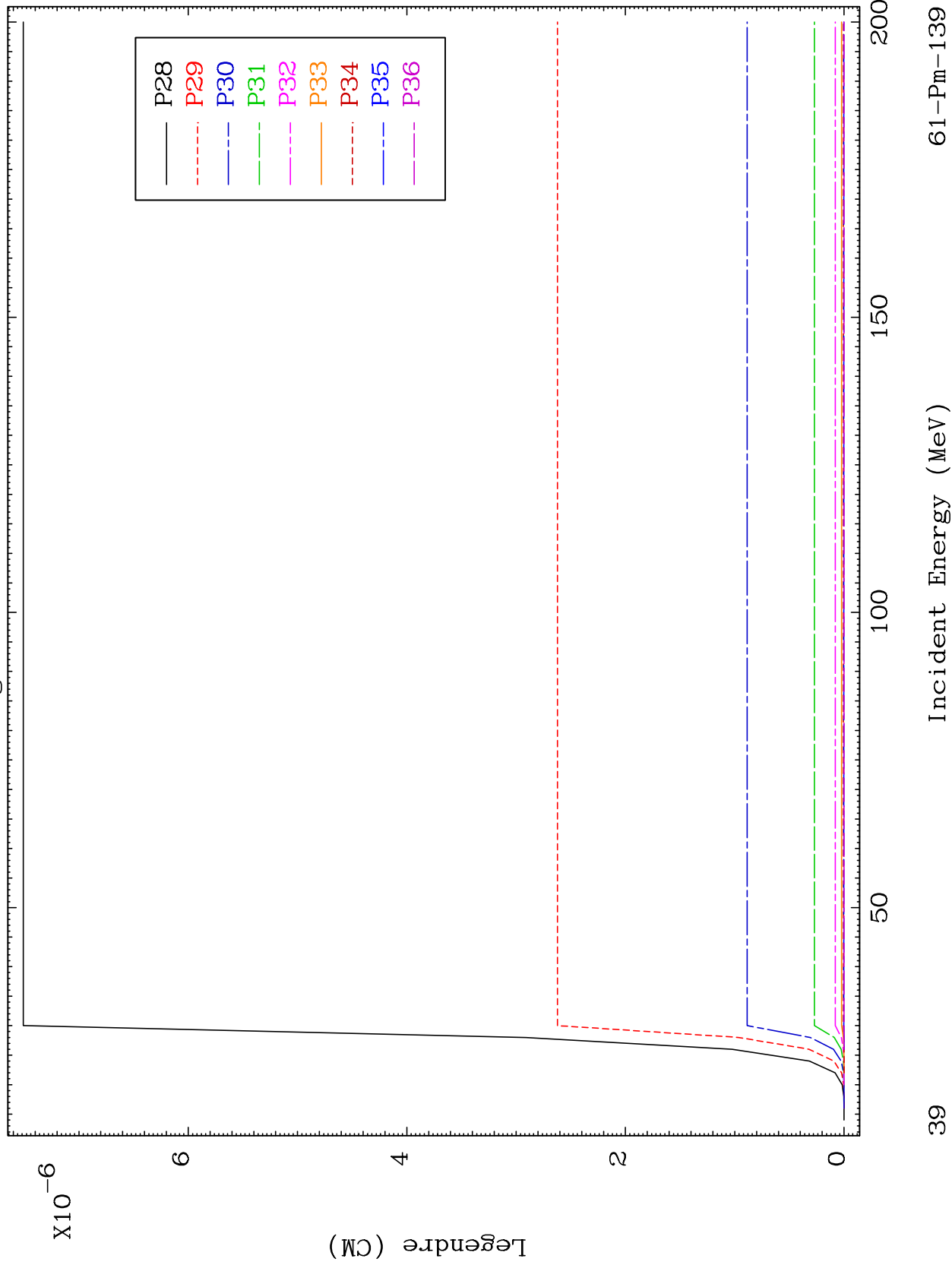
61-Pm-139



MAT 6125

462.7 keV (n, n') Level
Legendre Coefficients

61-Pm-139



39

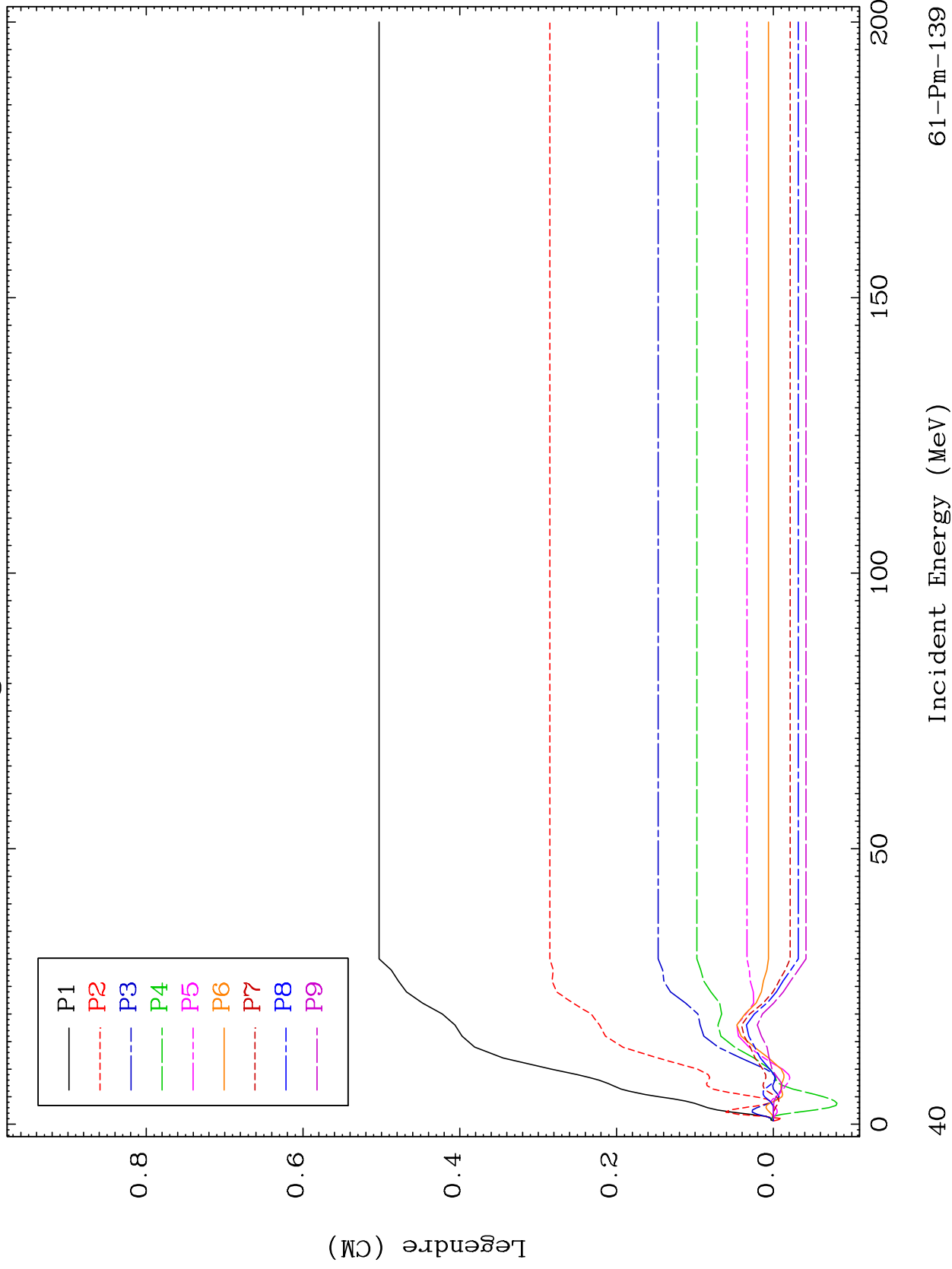
Incident Energy (MeV)

61-Pm-139

MAT 6125

589.5 keV (n,n') Level
Legendre Coefficients

61-Pm-139



61-Pm-139

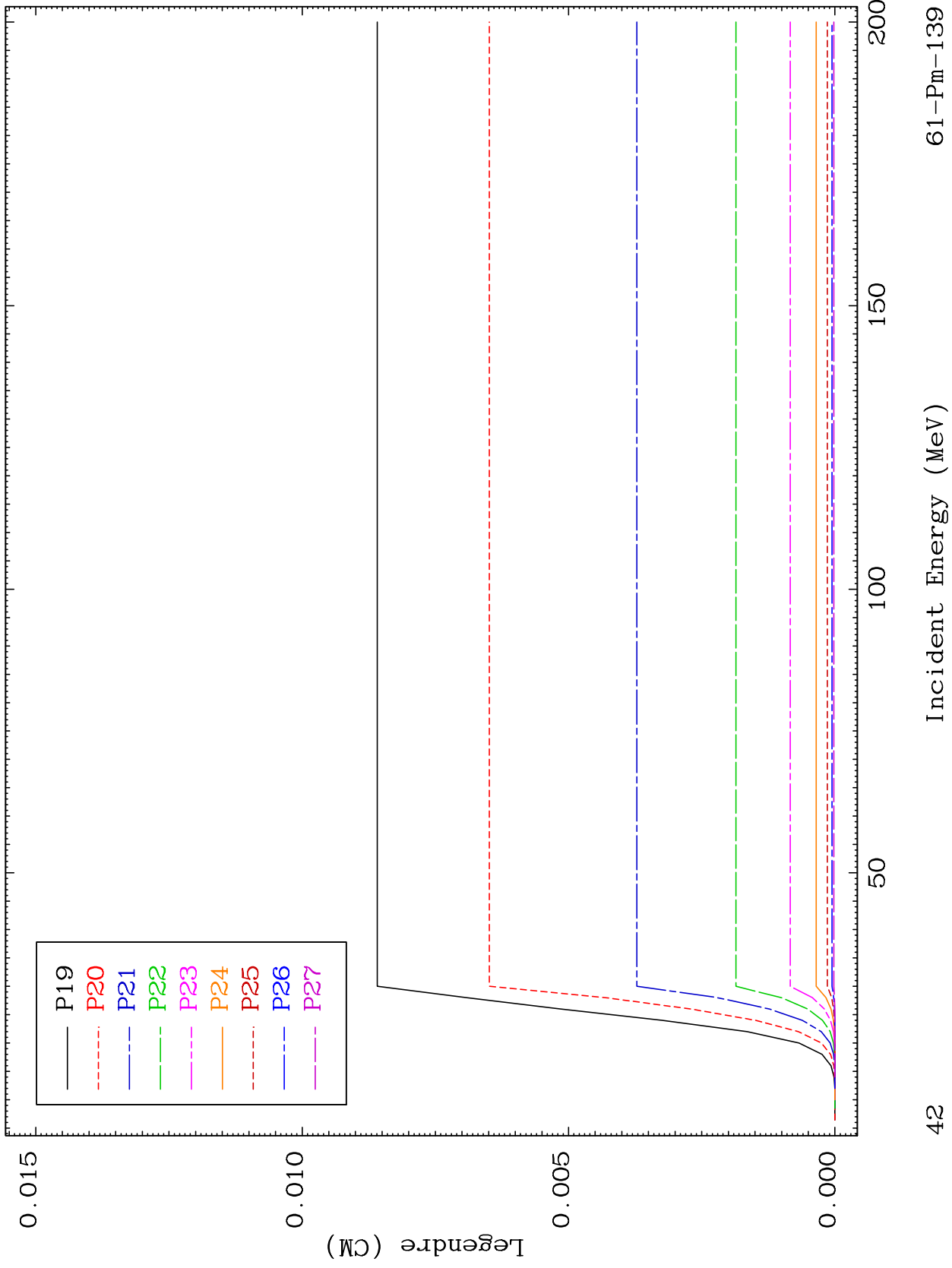
Incident Energy (MeV)

40

MAT 6125

589.5 keV (n,n') Level
Legendre Coefficients

61-Pm-139



42

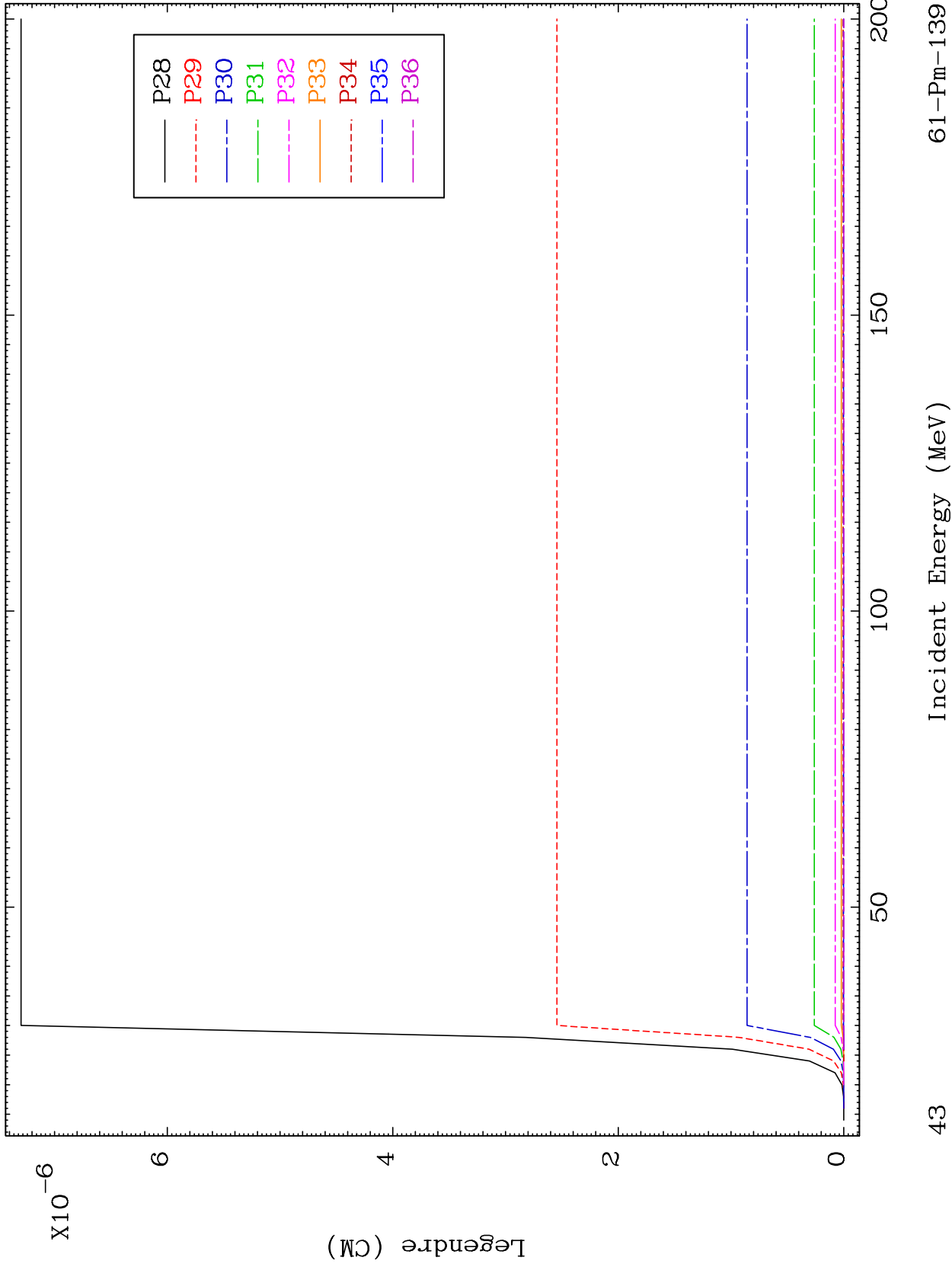
Incident Energy (MeV)

61-Pm-139

MAT 6125

589.5 keV (n,n') Level
Legendre Coefficients

61-Pm-139



43

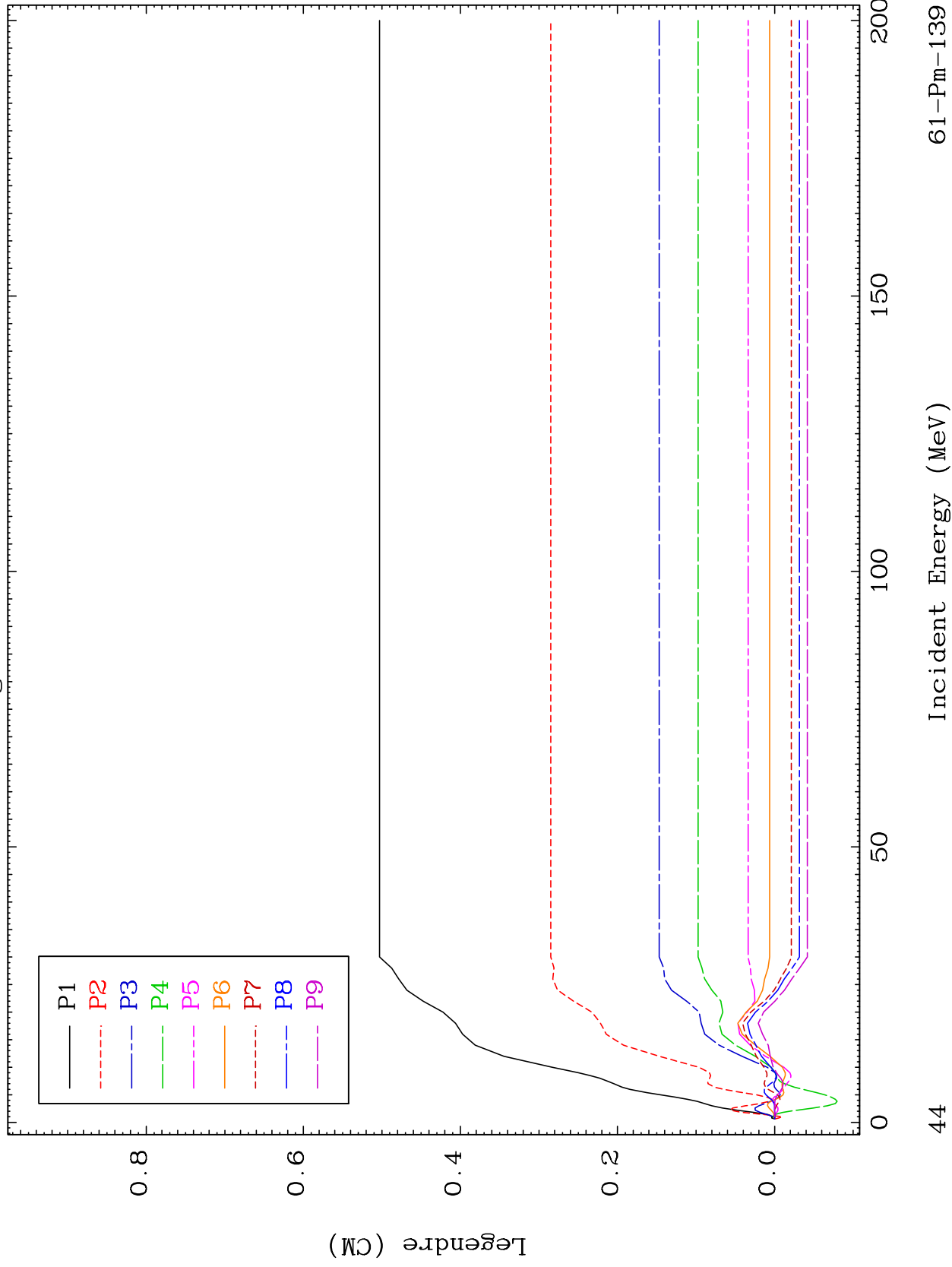
Incident Energy (MeV)

61-Pm-139

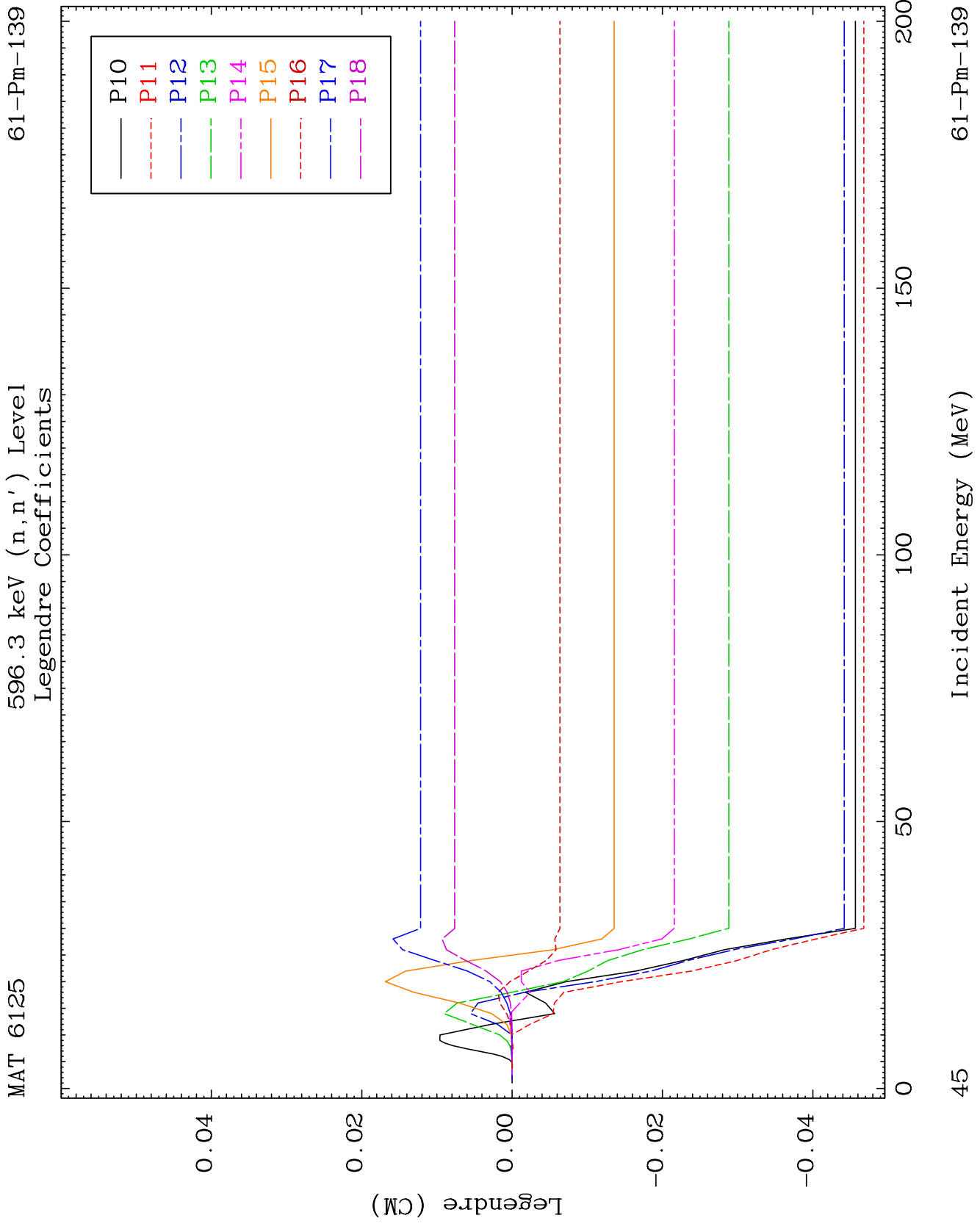
MAT 6125

596.3 keV (n,n') Level
Legendre Coefficients

61-Pm-139



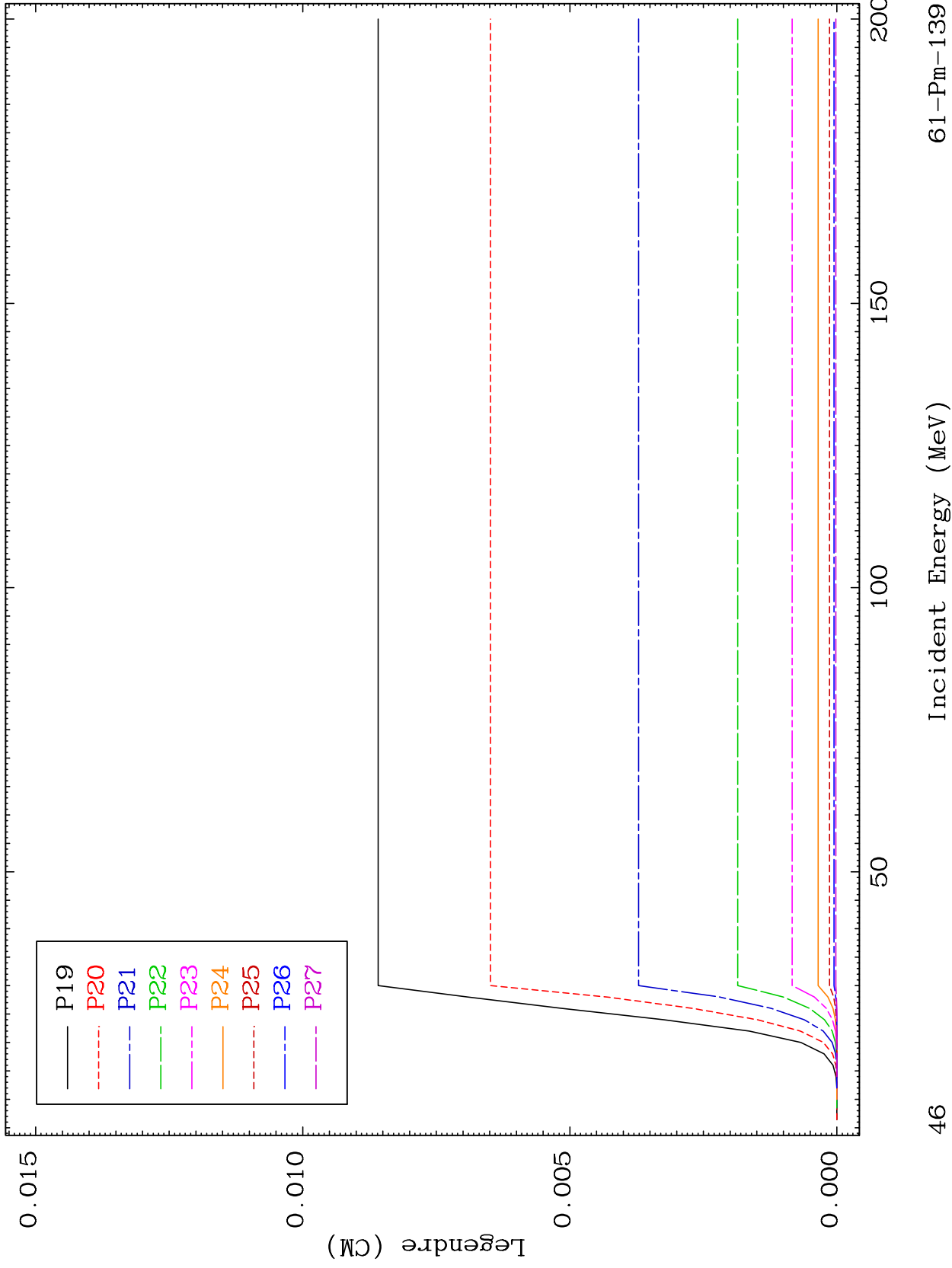
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MAT 6125

596.3 keV (n,n') Level
Legendre Coefficients

61-Pm-139



61-Pm-139

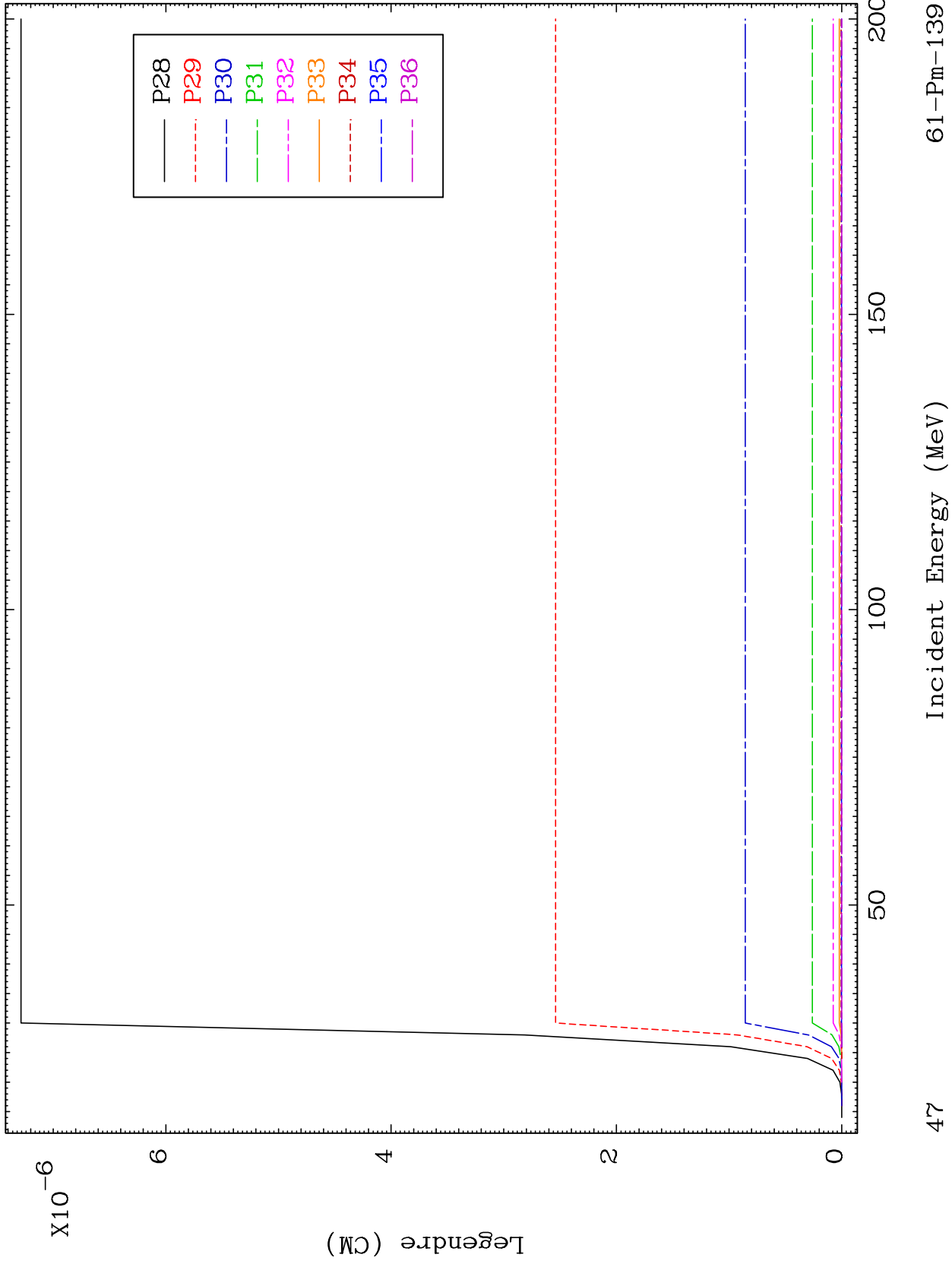
Incident Energy (MeV)

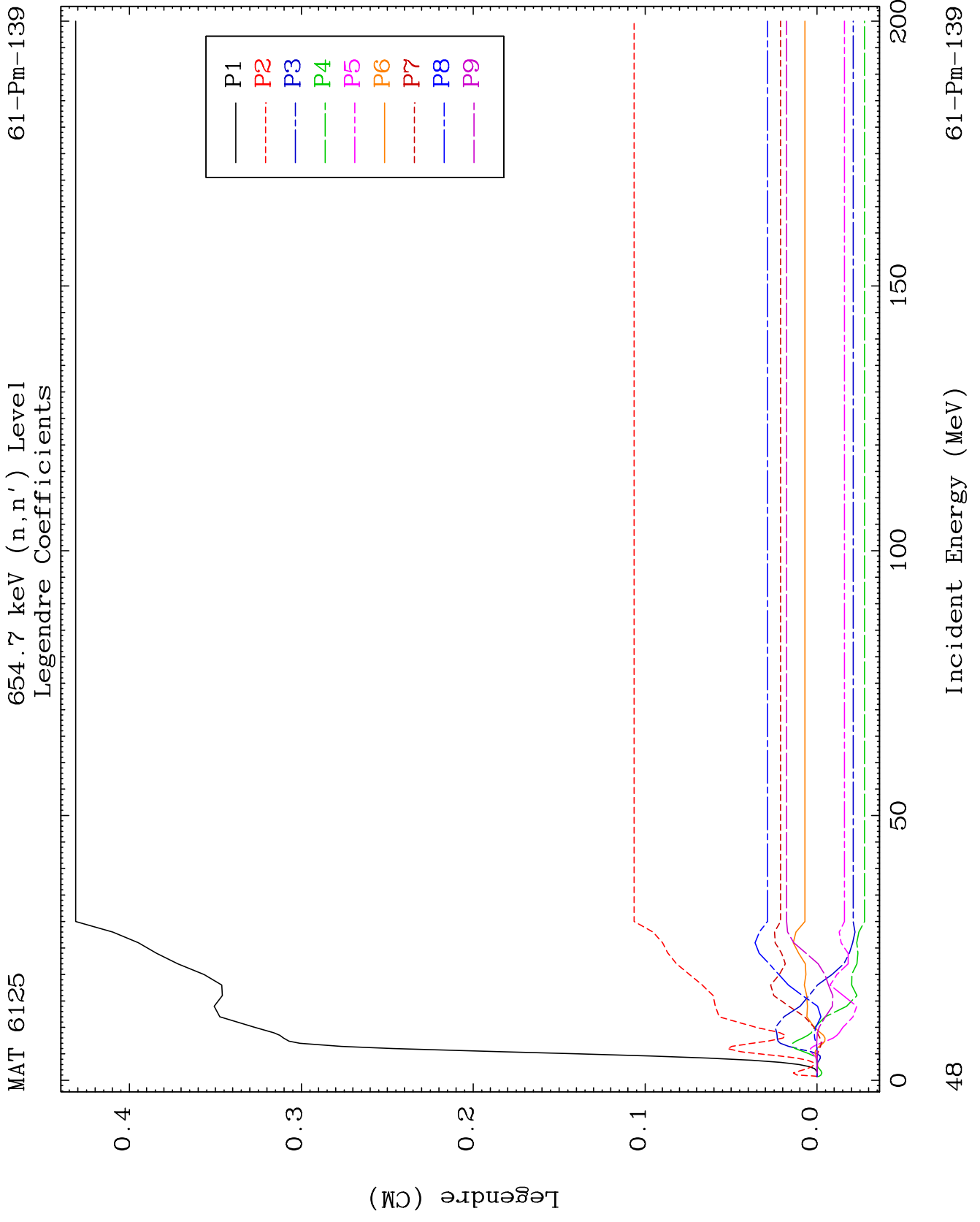
46

MAT 6125

596.3 keV (n,n') Level
Legendre Coefficients

61-Pm-139

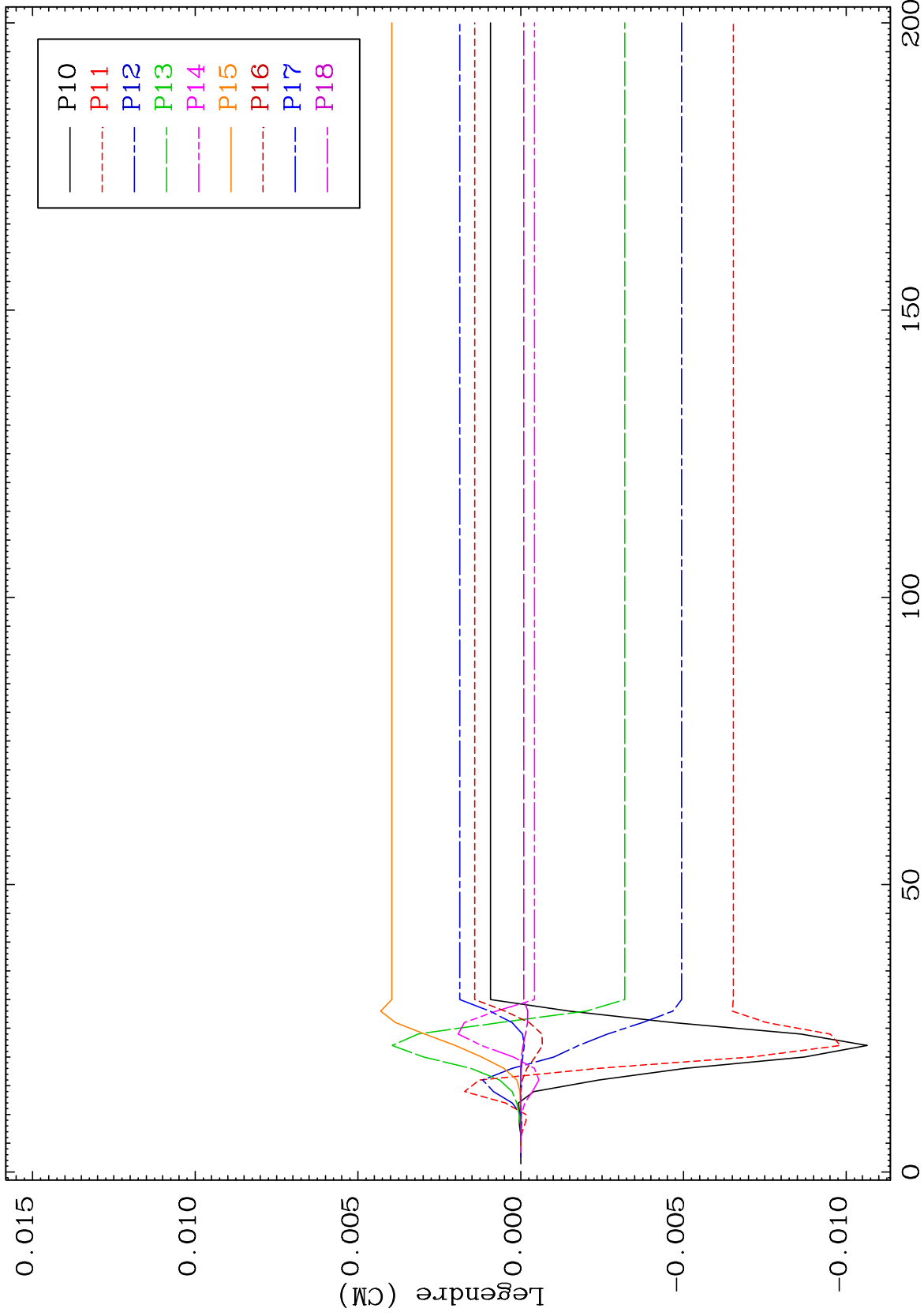




MAT 6125

654.7 keV (n,n') Level
Legendre Coefficients

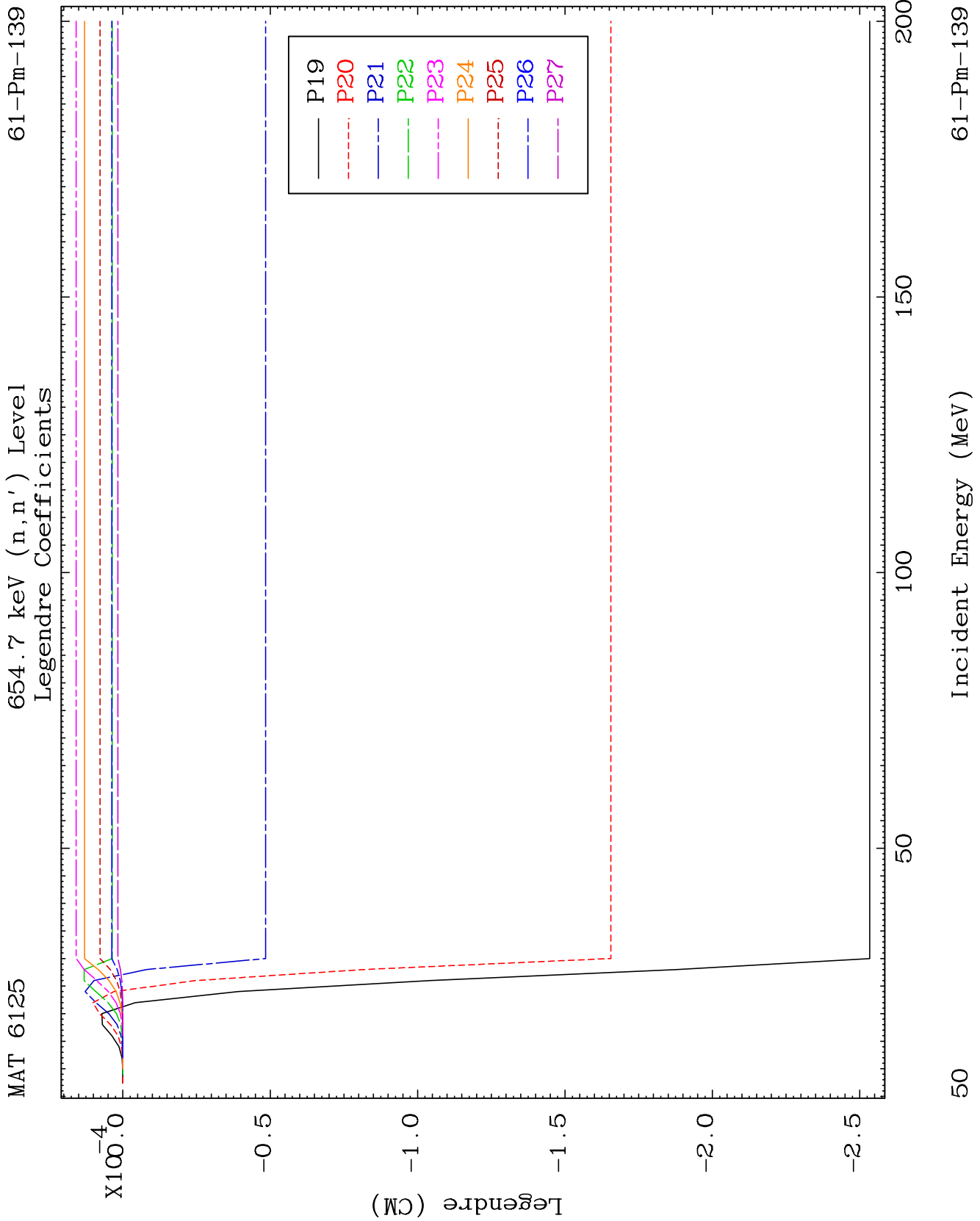
61-Pm-139



49

Incident Energy (MeV)

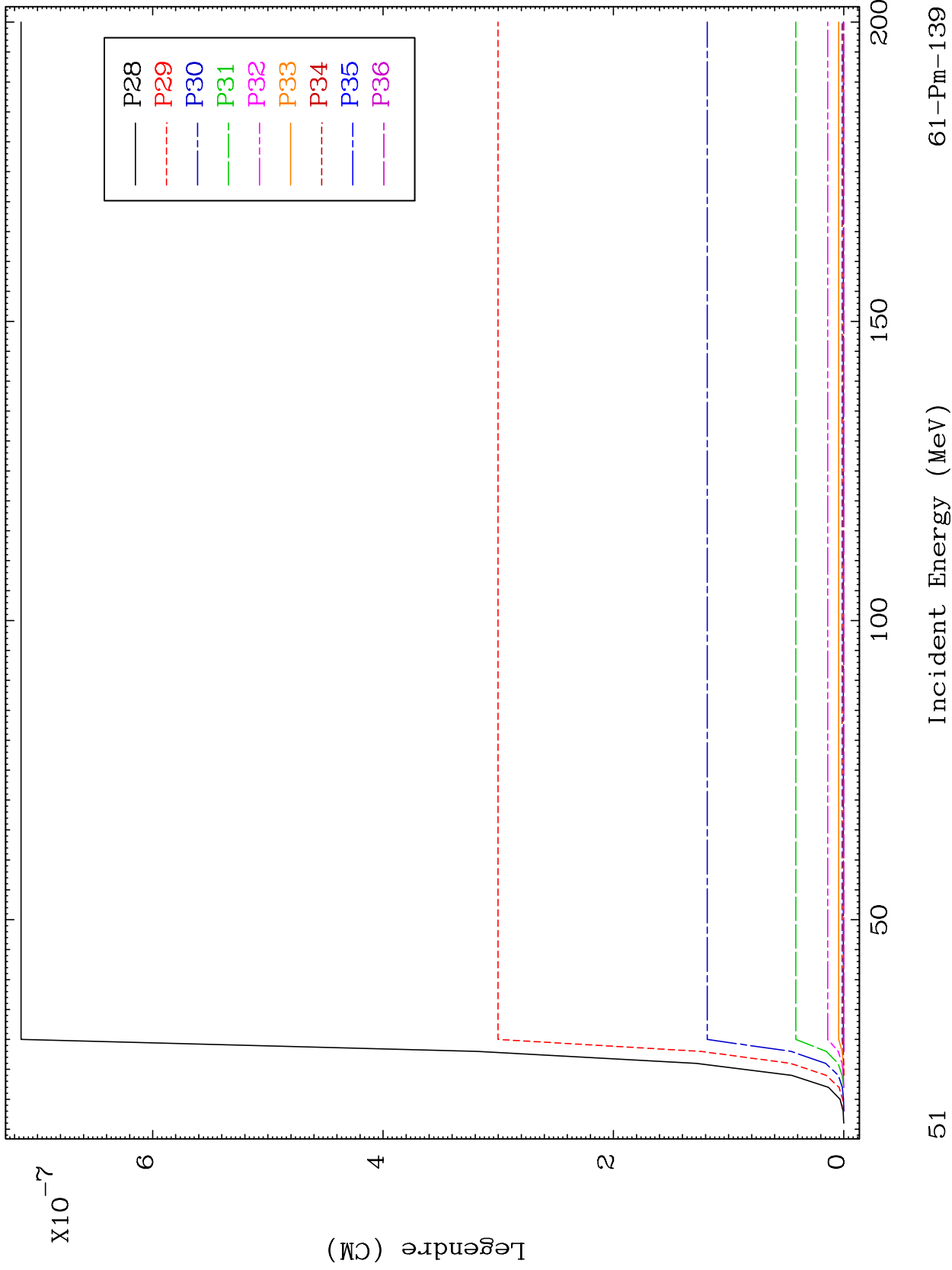
61-Pm-139



MAT 6125

654.7 keV (n, n') Level
Legendre Coefficients

61-Pm-139



51

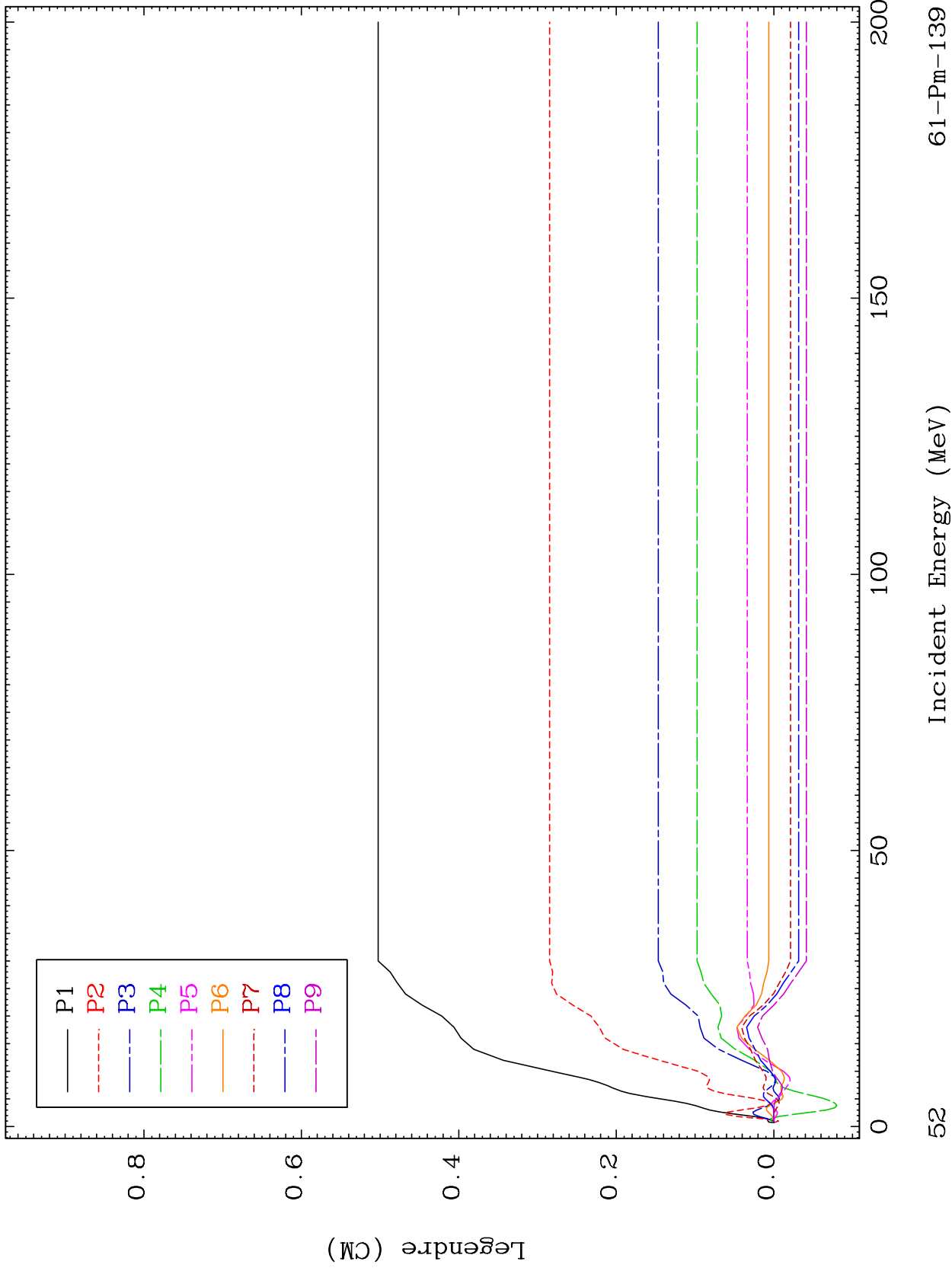
Incident Energy (MeV)

61-Pm-139

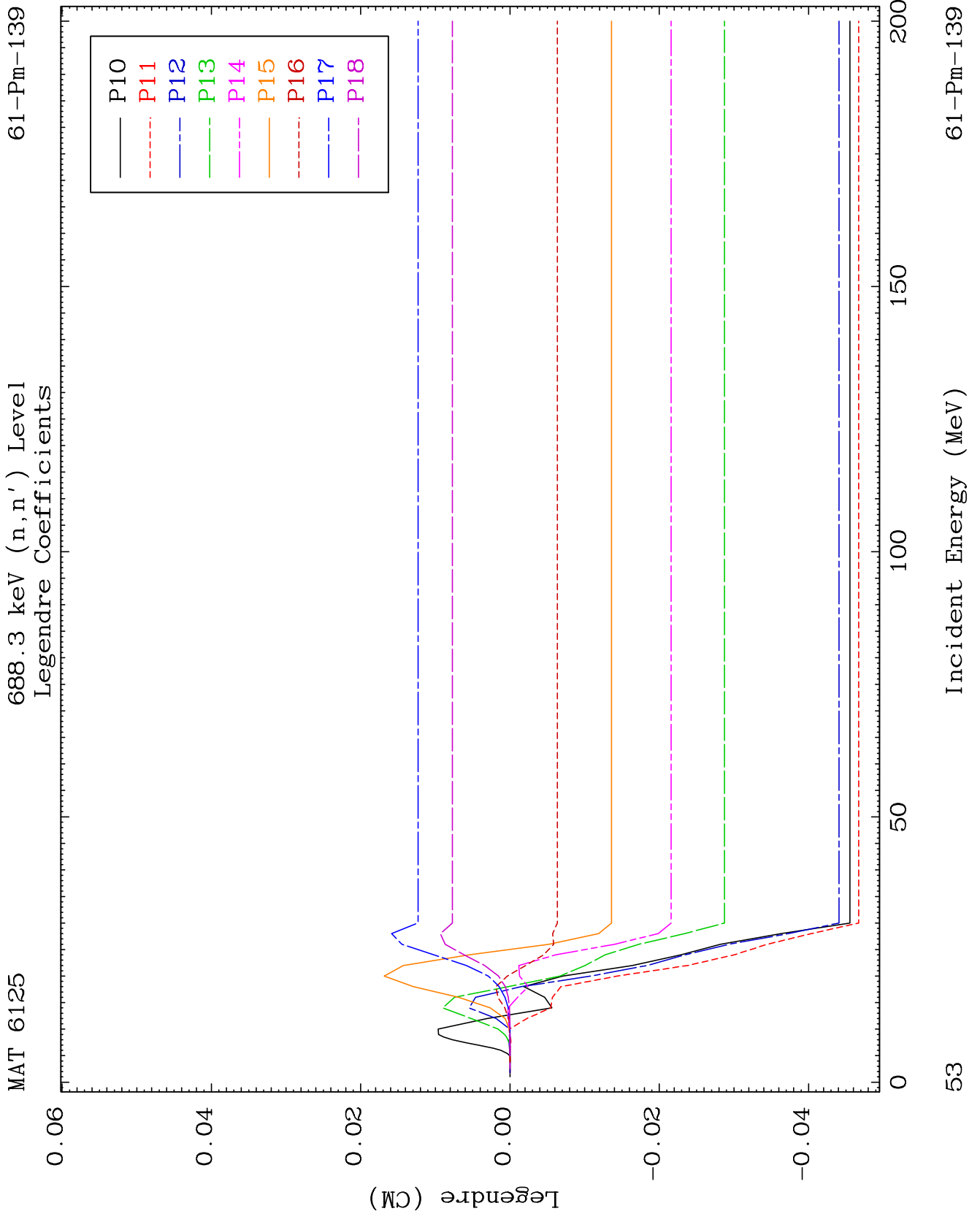
MAT 6125

688.3 keV (n,n') Level
Legendre Coefficients

61-Pm-139



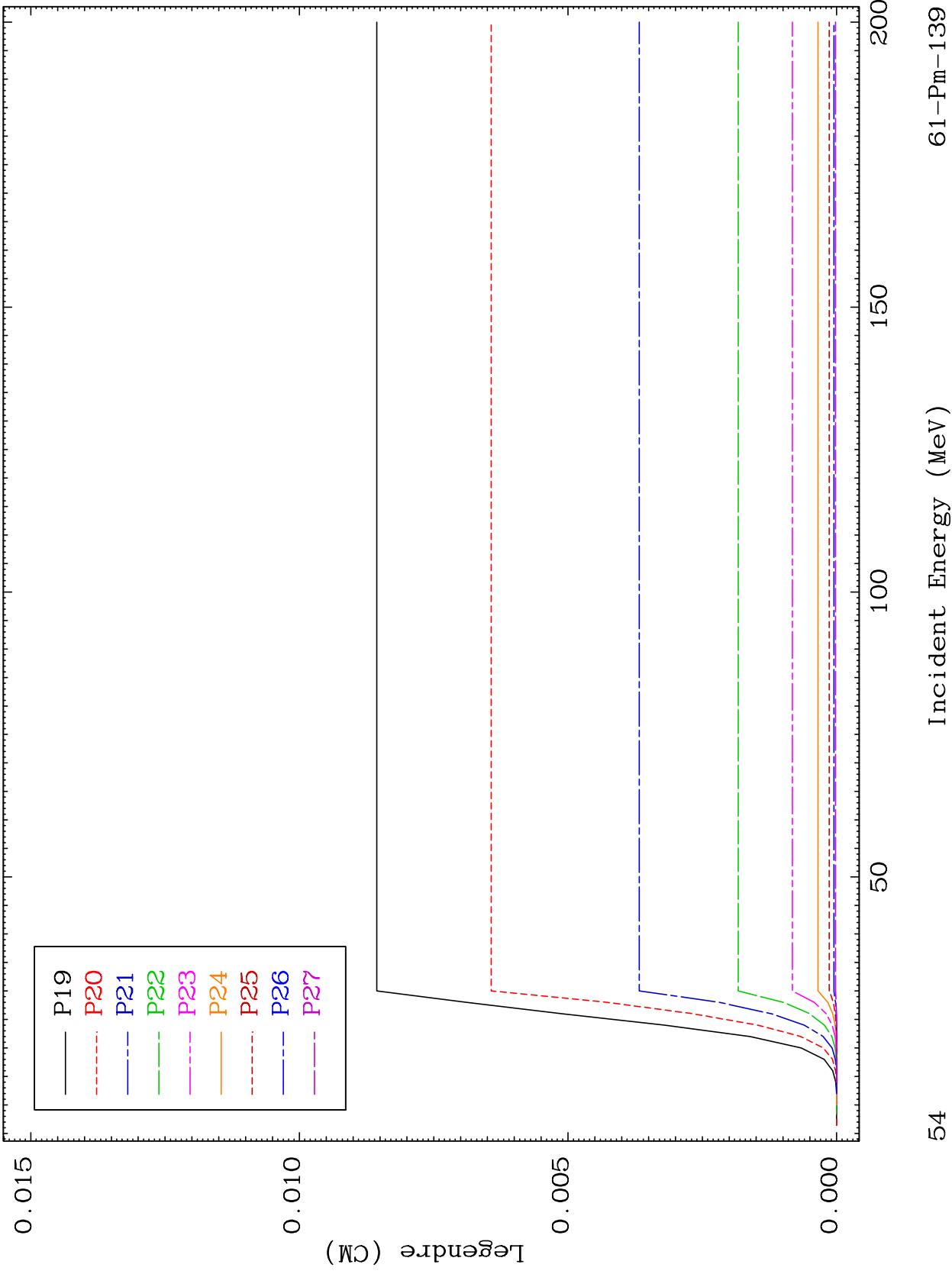
52



MAT 6125

688.3 keV (n,n') Level
Legendre Coefficients

61-Pm-139



54

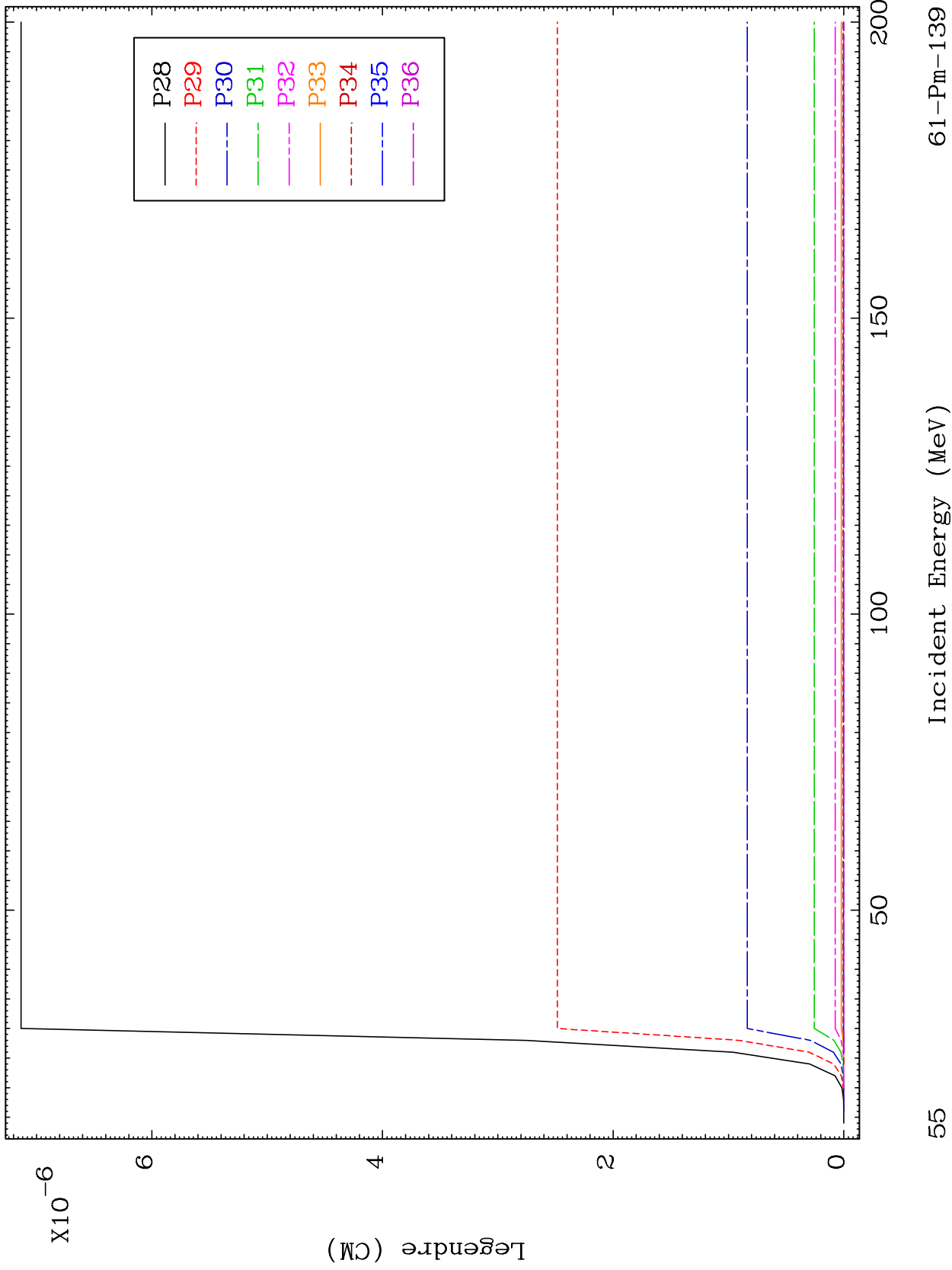
Incident Energy (MeV)

61-Pm-139

MAT 6125

688.3 keV (n,n') Level
Legendre Coefficients

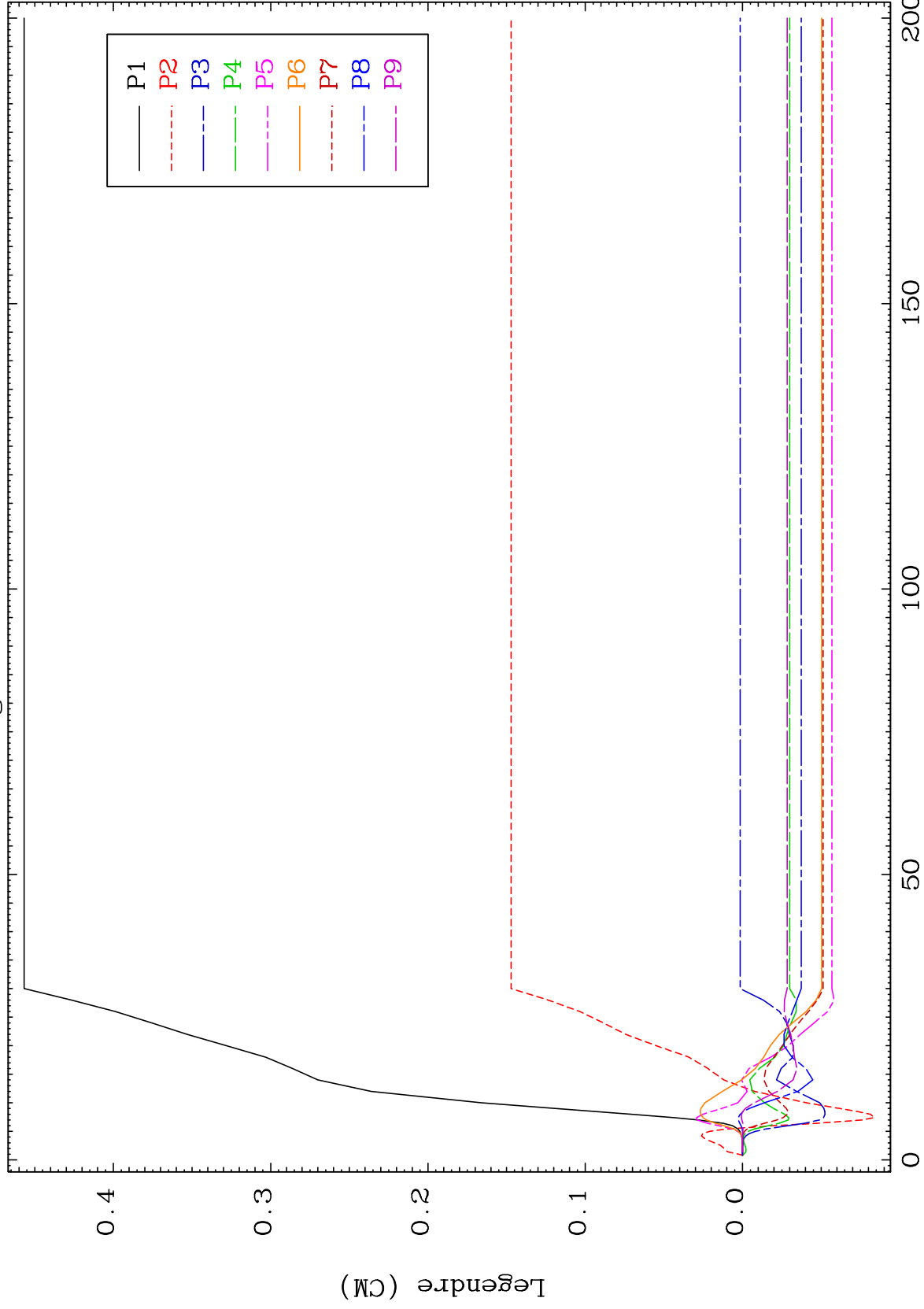
61-Pm-139



MAT 6125

721.4 keV (n,n') Level
Legendre Coefficients

61-Pm-139



56

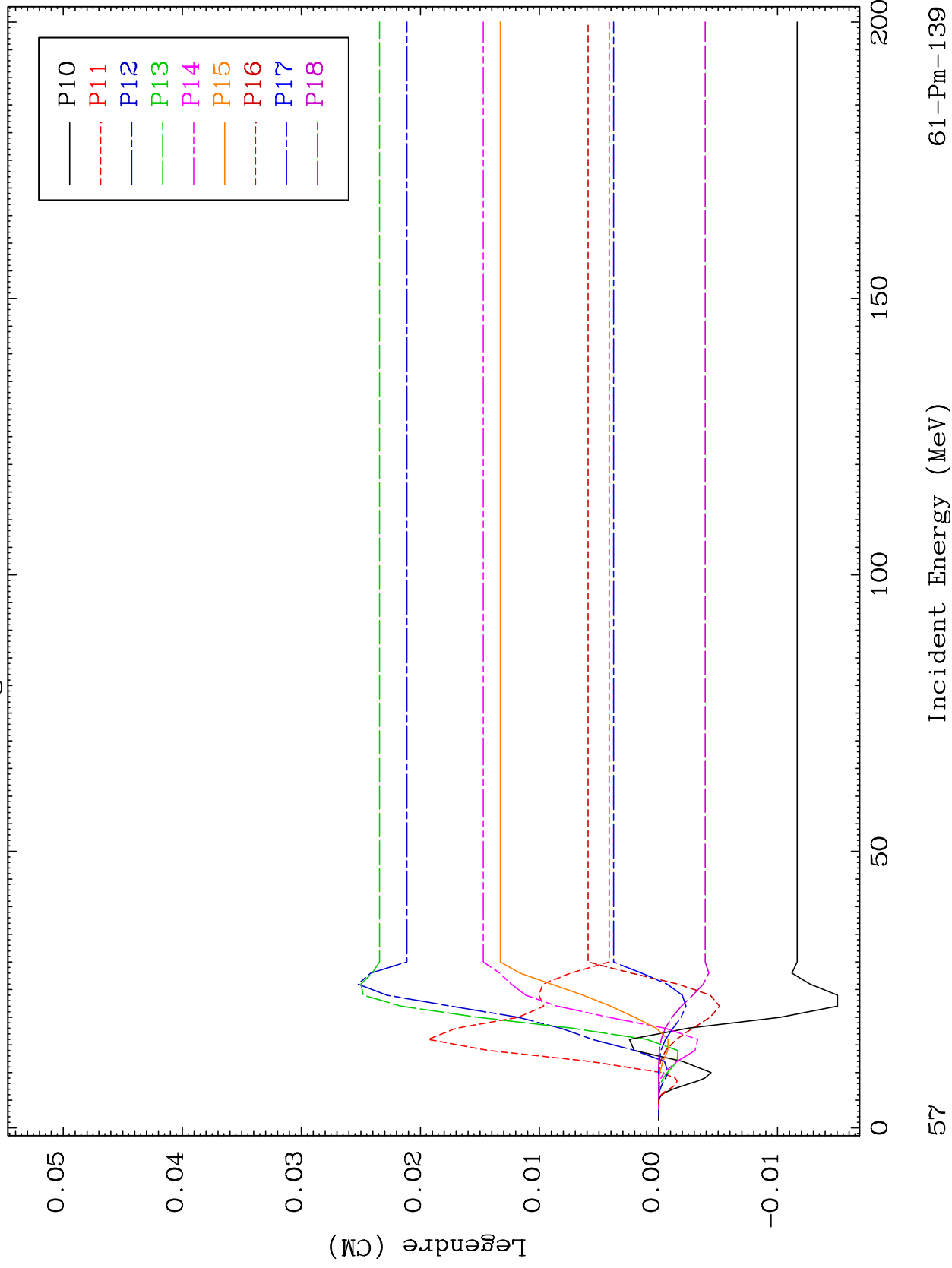
Incident Energy (MeV)

61-Pm-139

MAT 6125

721.4 keV (n,n') Level
Legendre Coefficients

61-Pm-139



57

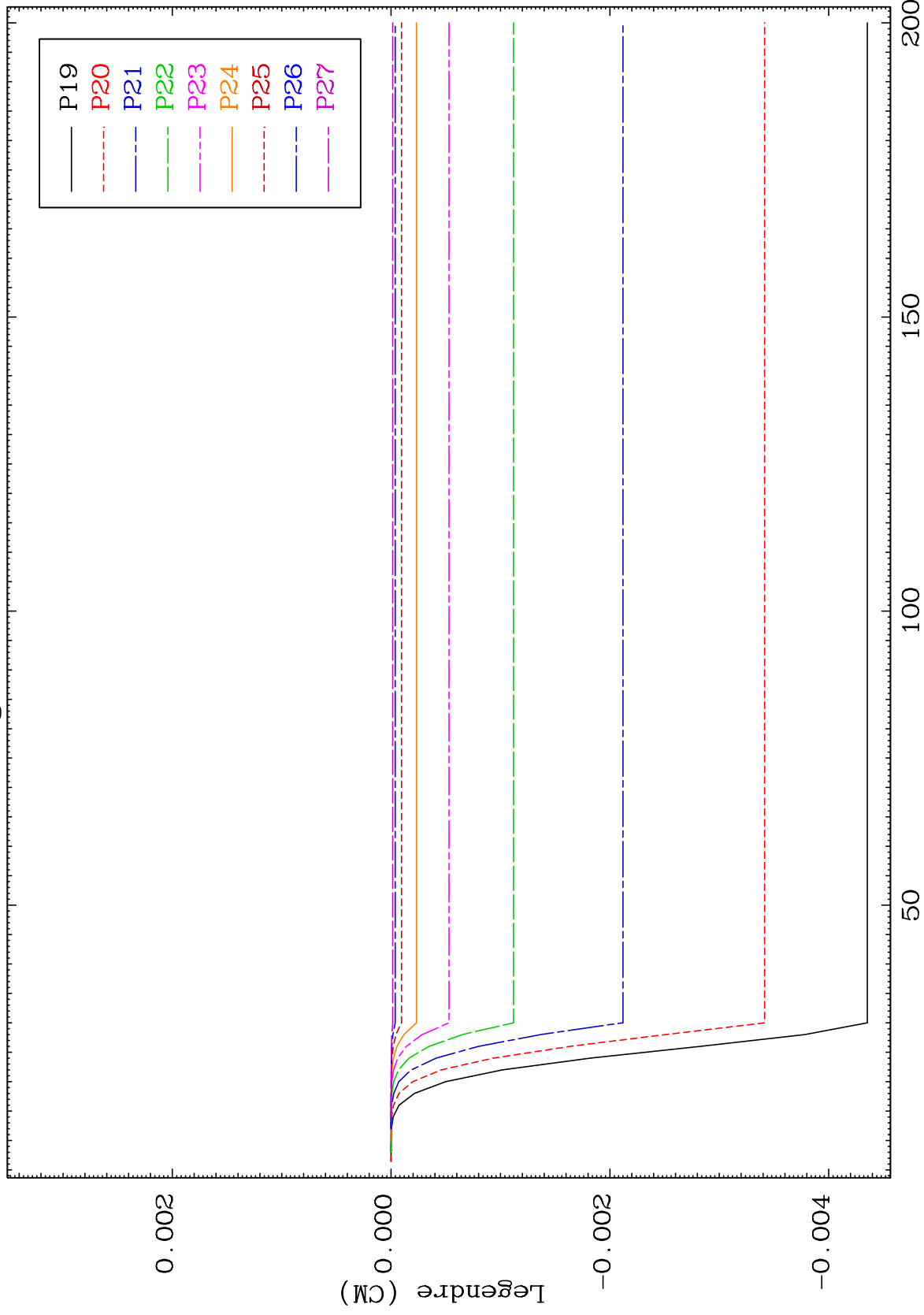
Incident Energy (MeV)

61-Pm-139

MAT 6125

721.4 keV (n,n') Level
Legendre Coefficients

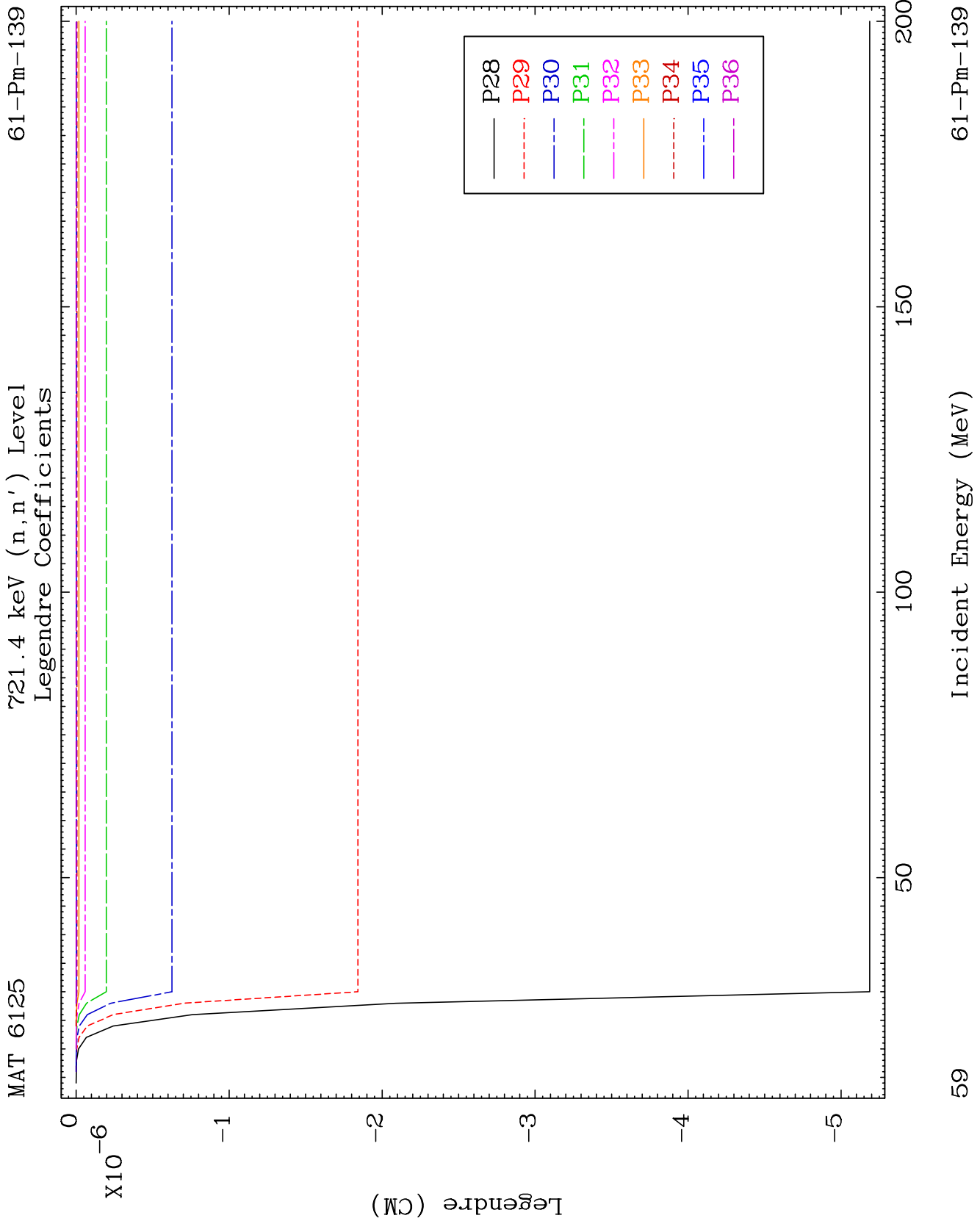
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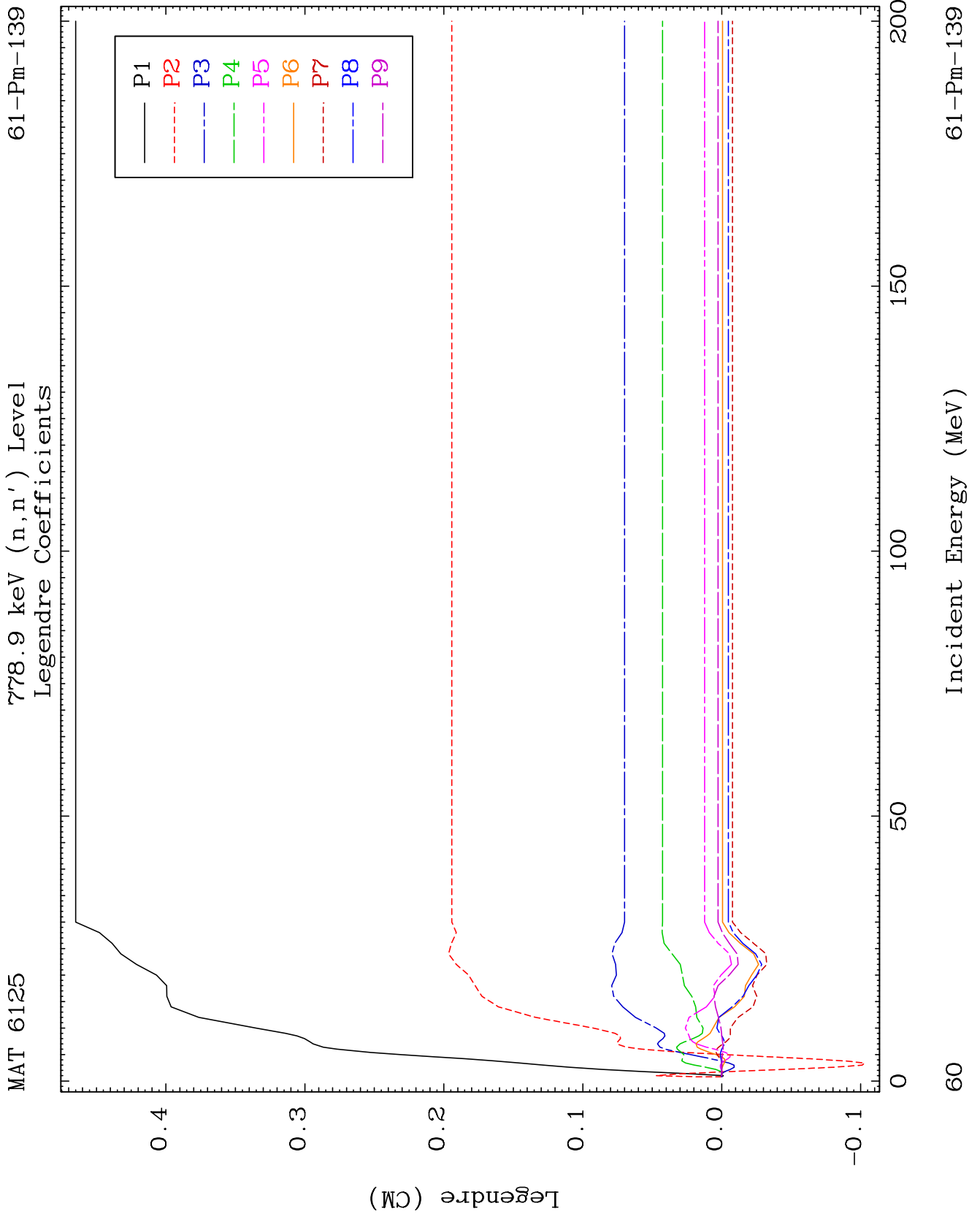


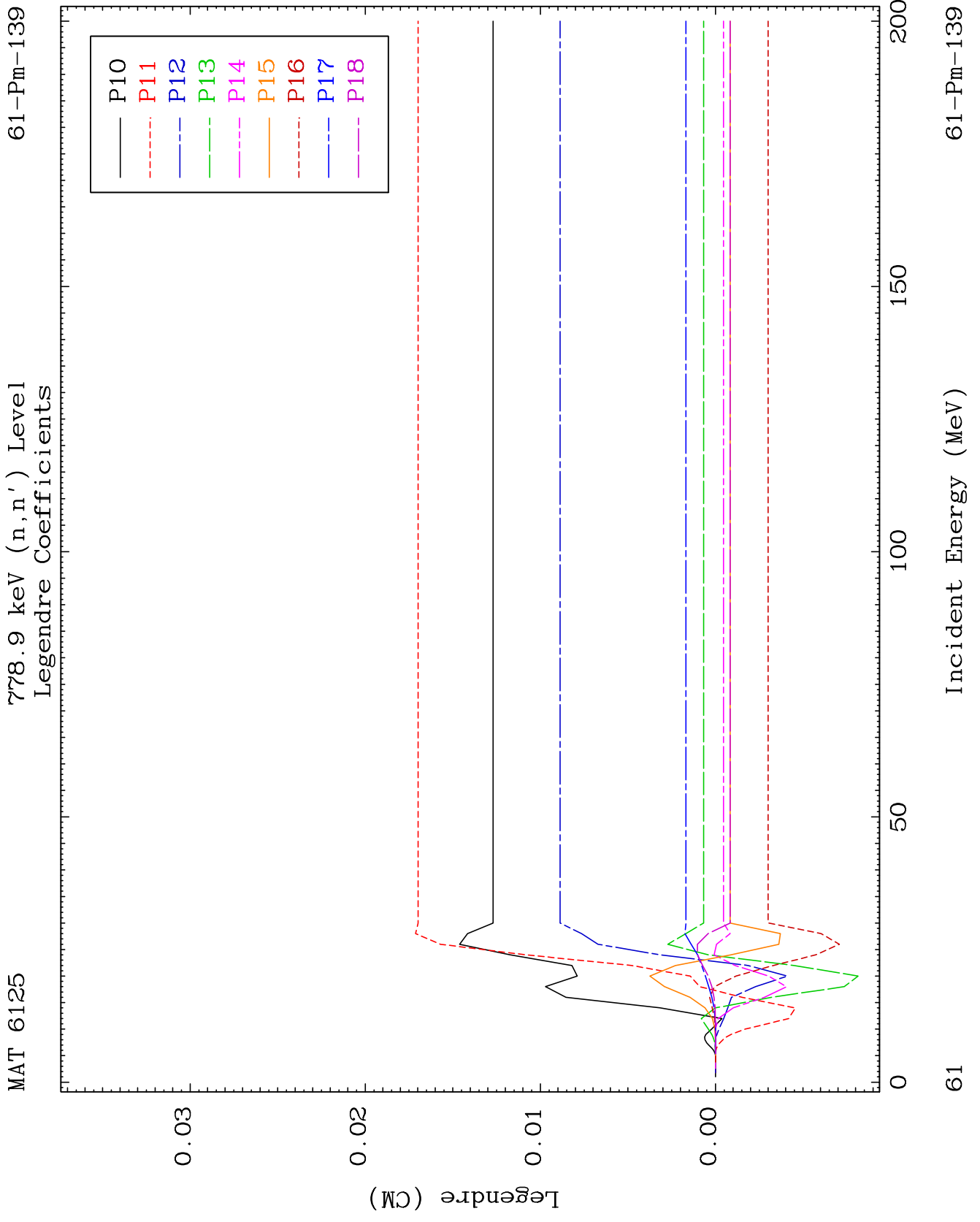
58

Incident Energy (MeV)

61-Pm-139



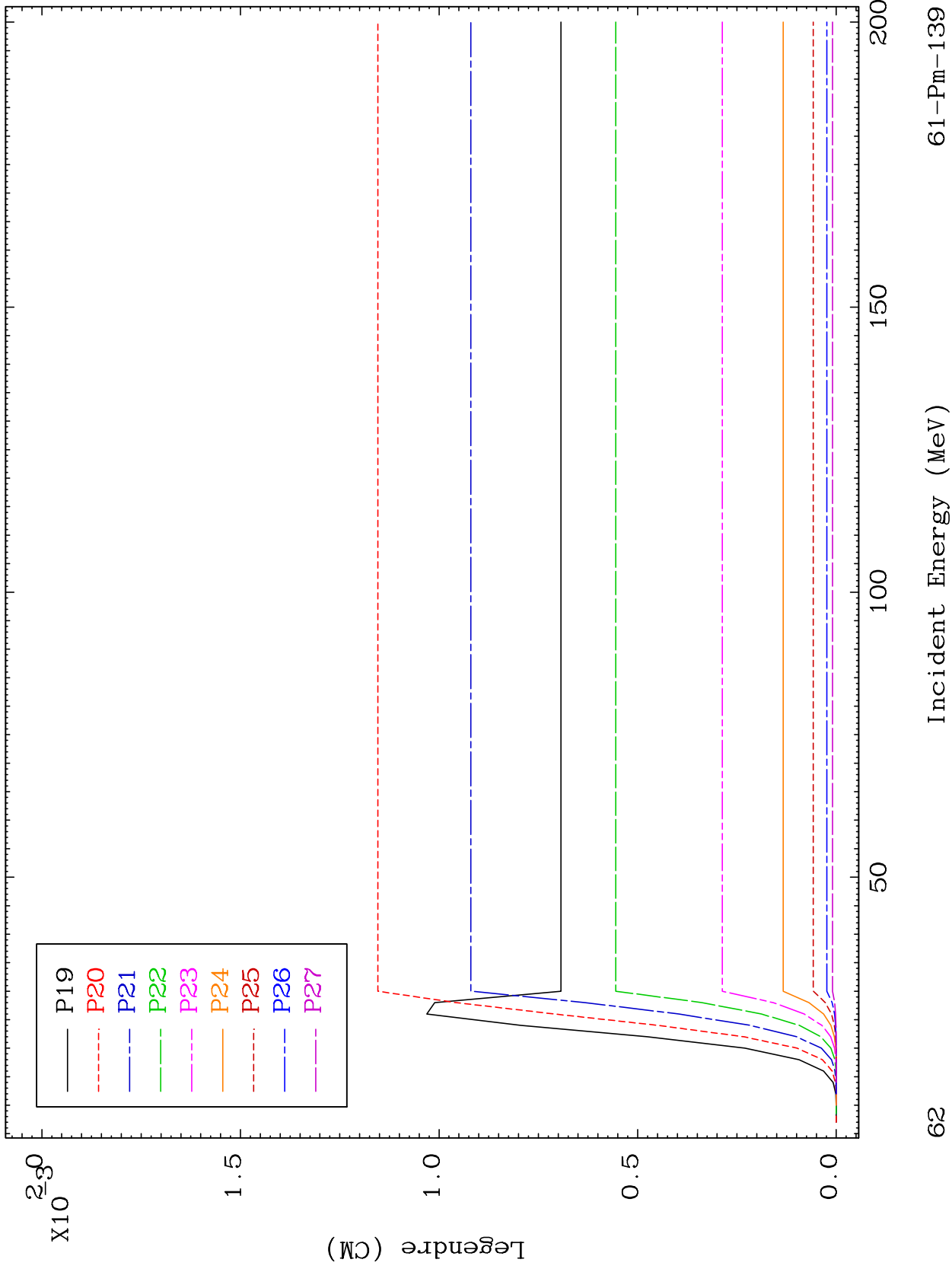




MAT 6125

778.9 keV (n, n') Level
Legendre Coefficients

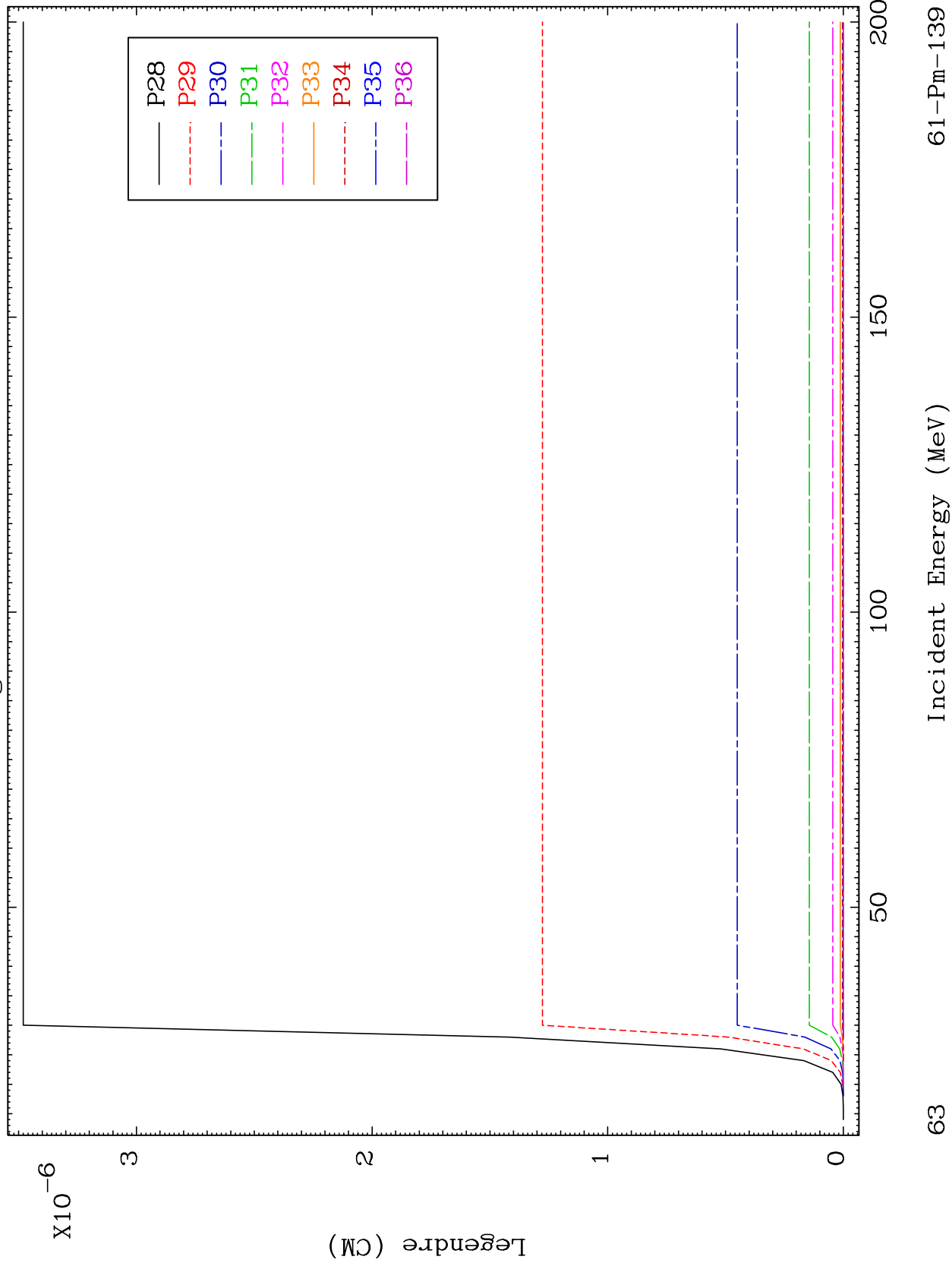
61-Pm-139



MAT 6125

778.9 keV (n,n') Level
Legendre Coefficients

61-Pm-139



63

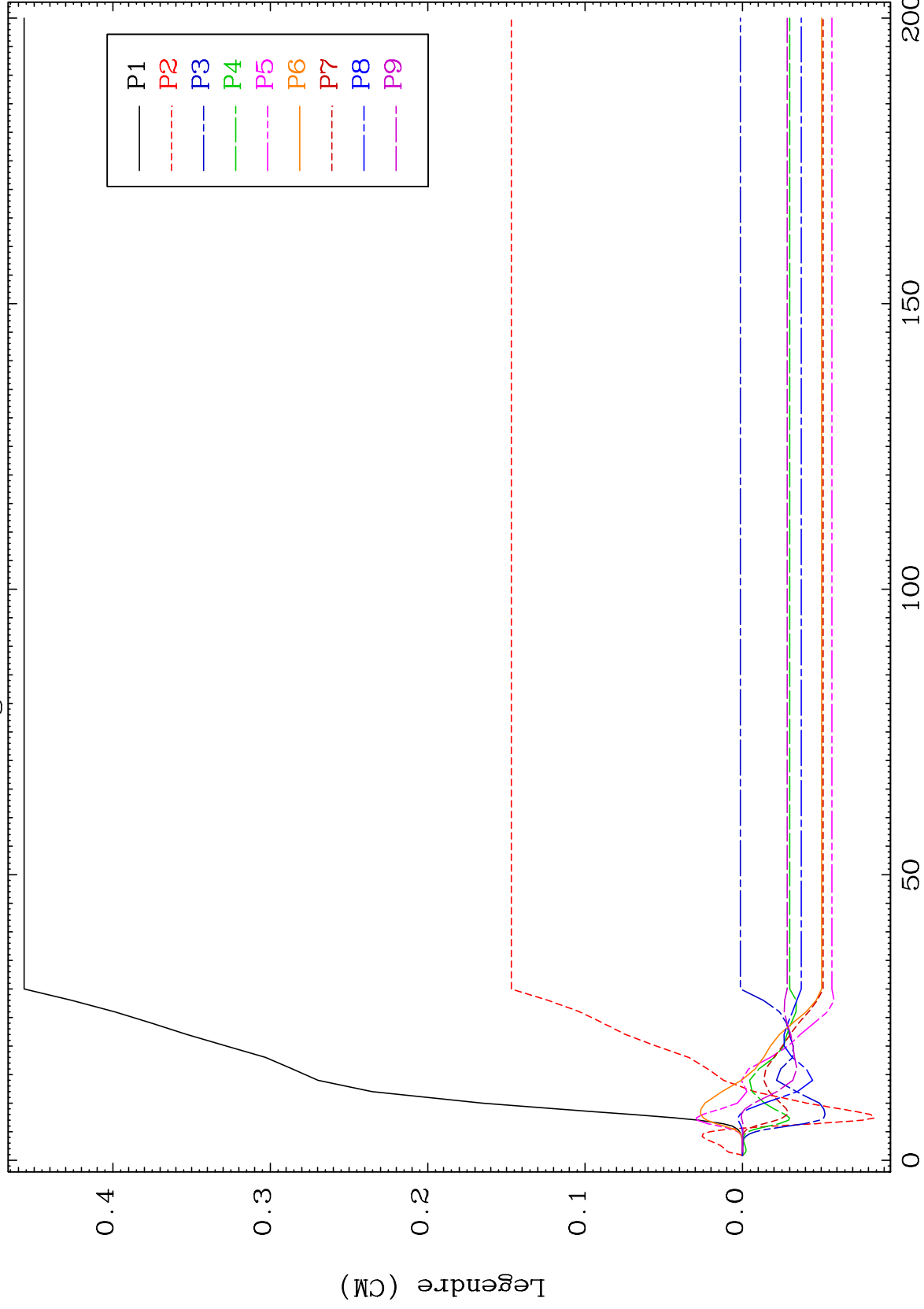
Incident Energy (MeV)

61-Pm-139

MAT 6125

782.0 keV (n,n') Level
Legendre Coefficients

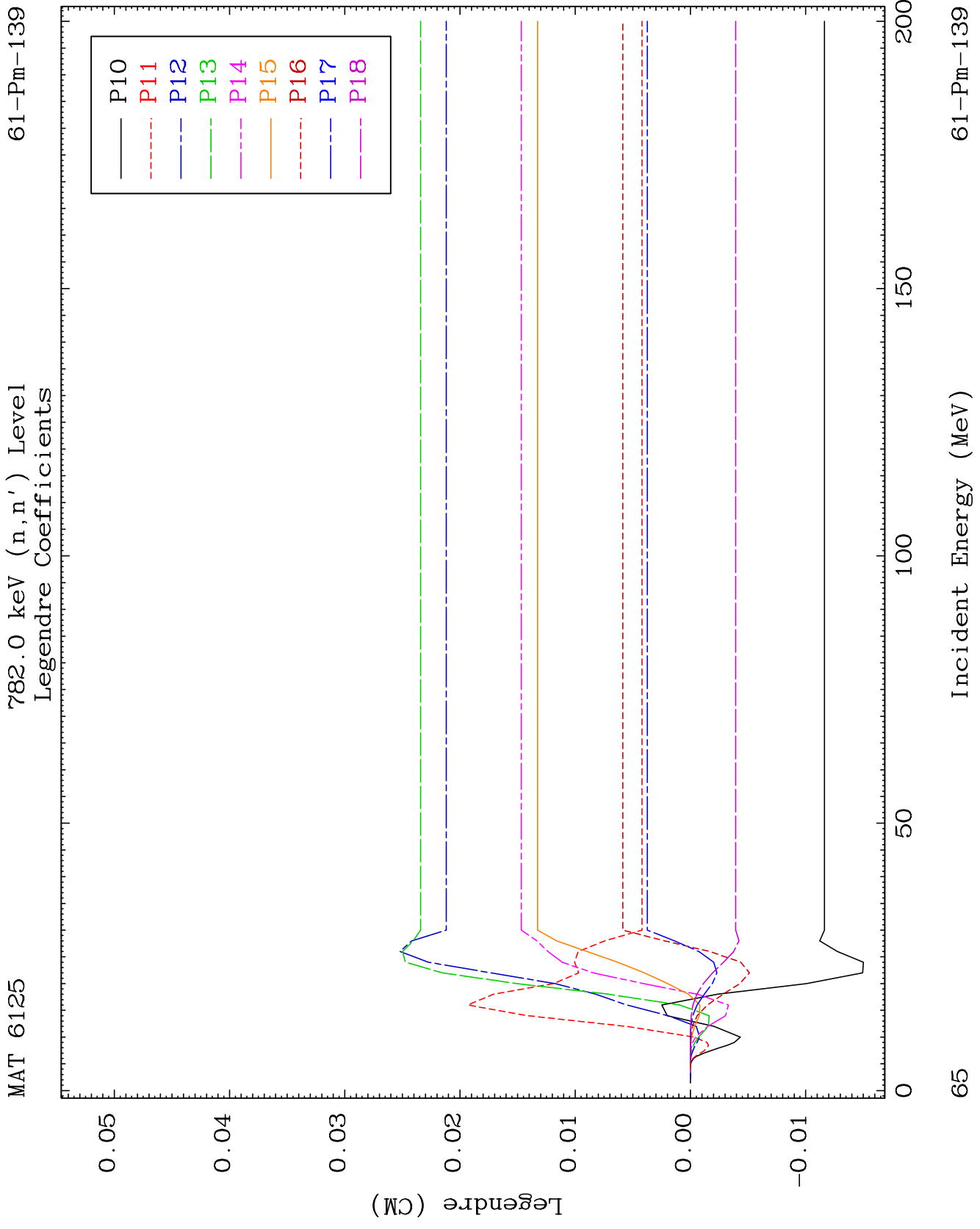
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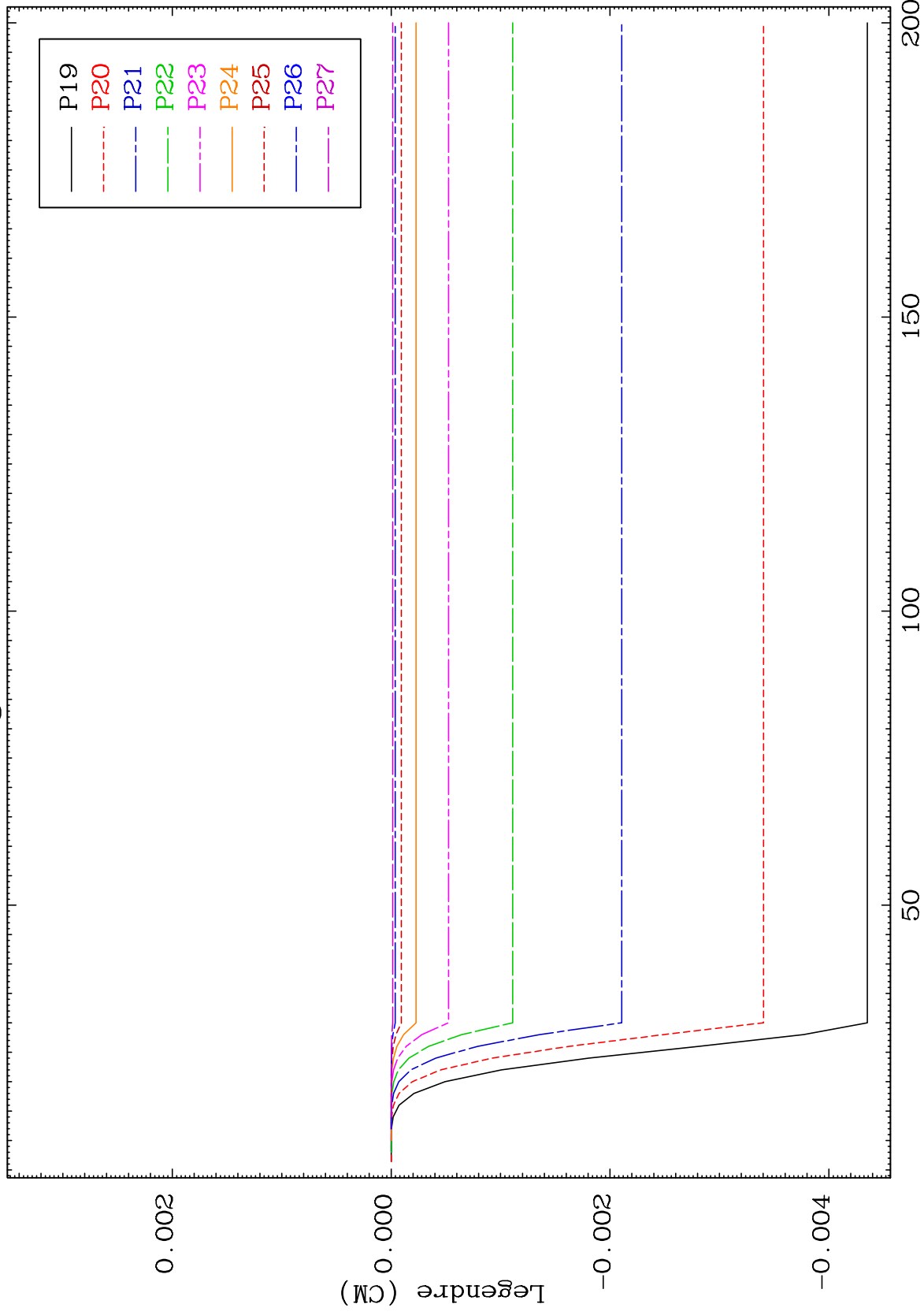


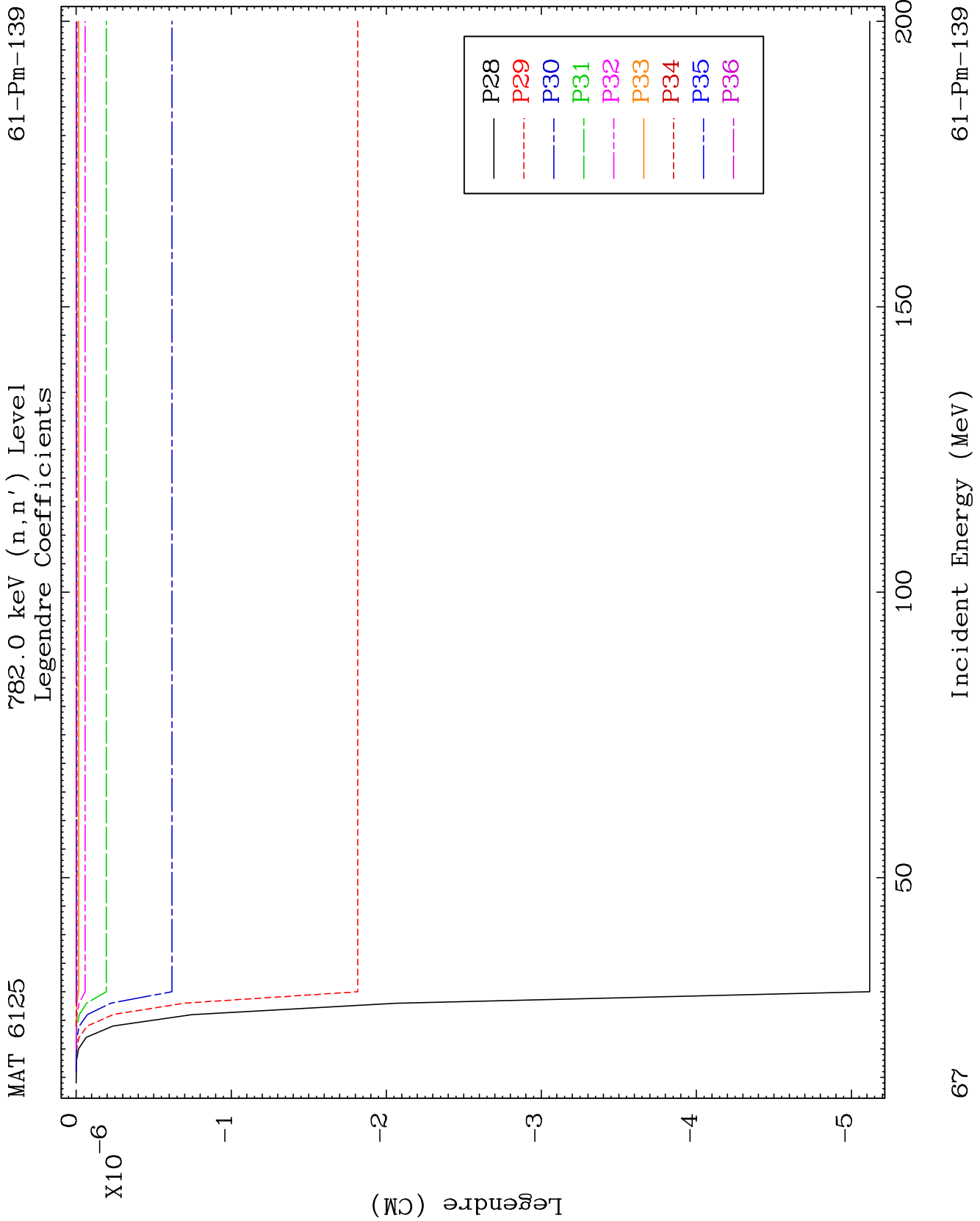
64

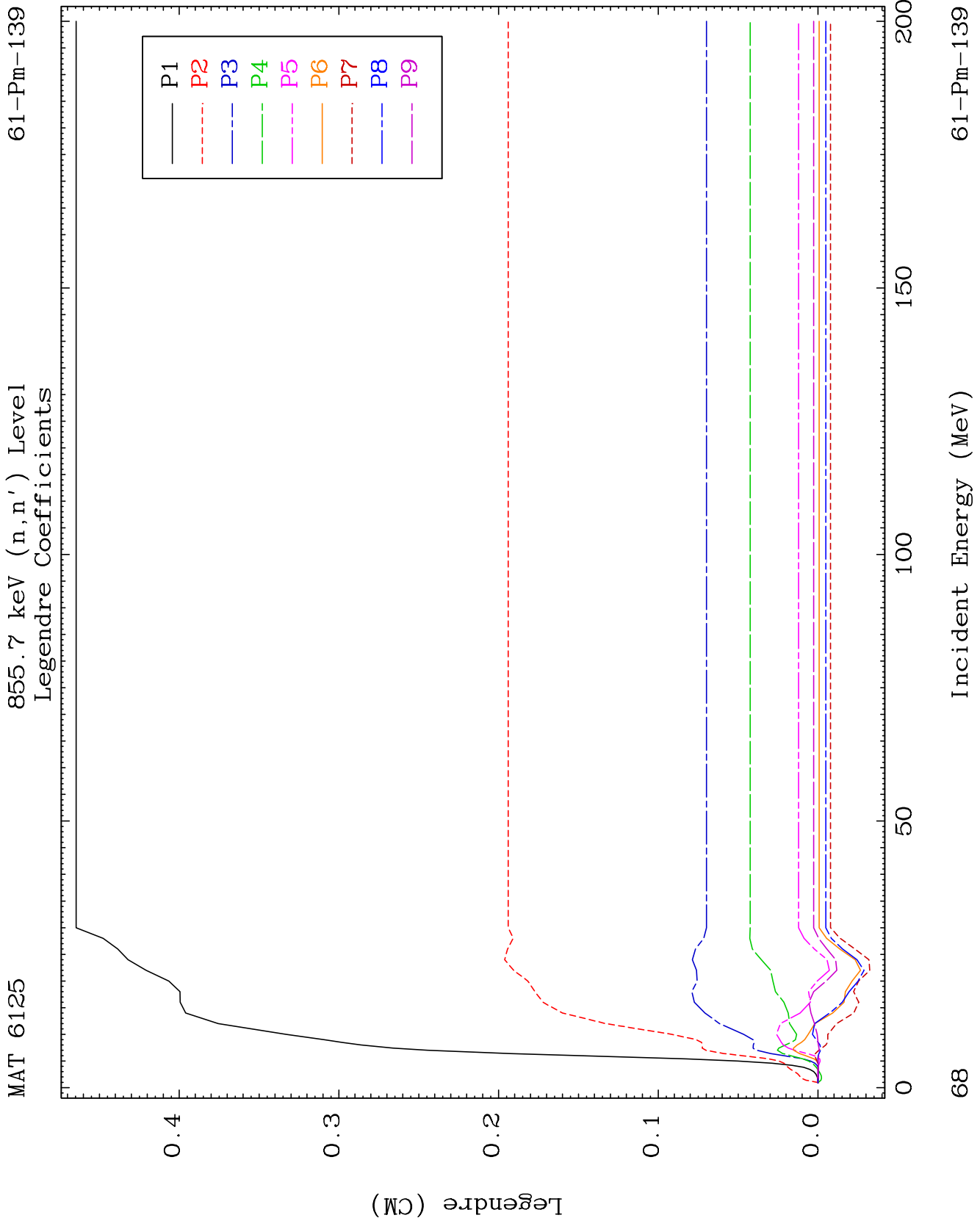
Incident Energy (MeV)

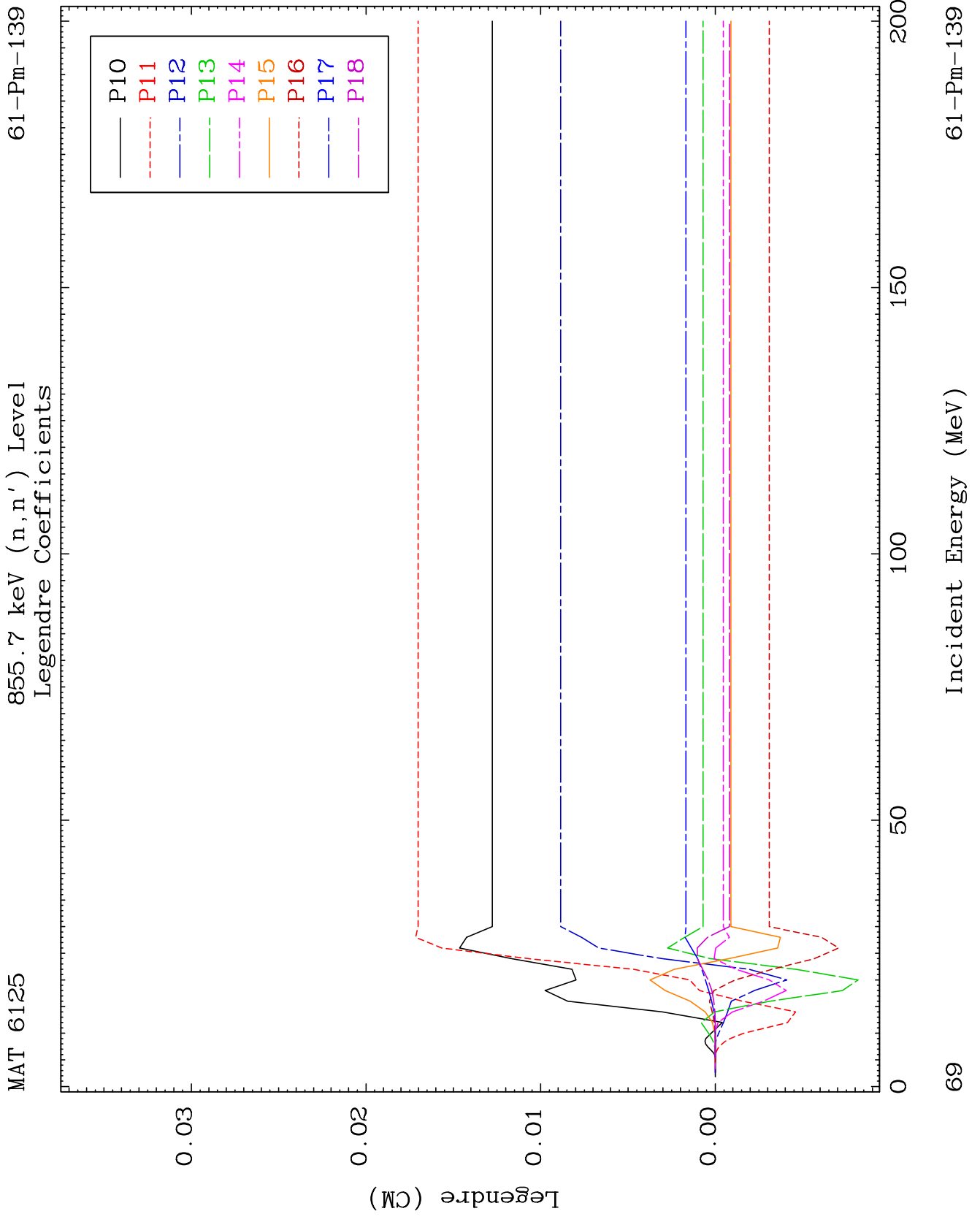
61-Pm-139







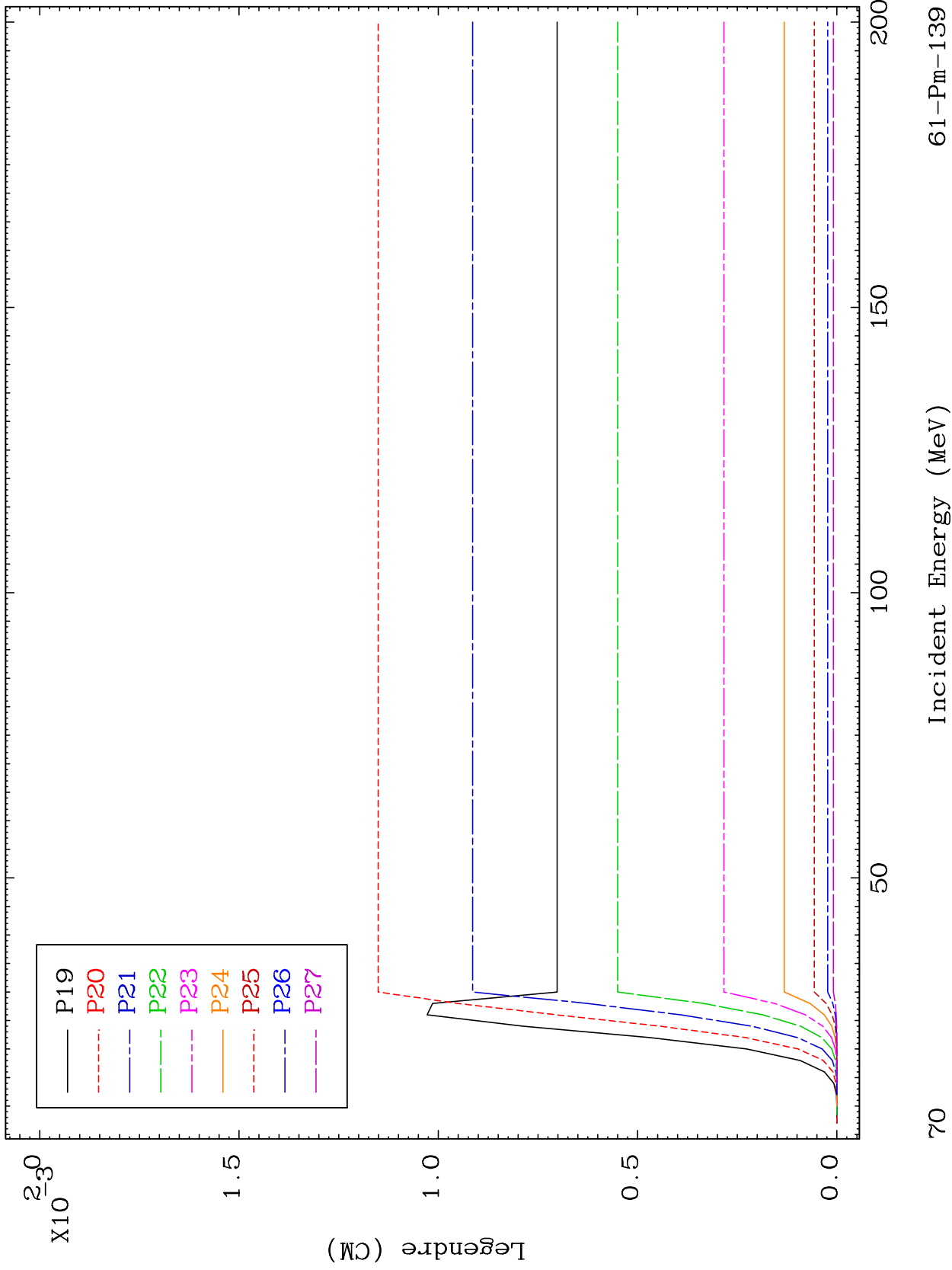




MAT 6125

855.7 keV (n, n') Level
Legendre Coefficients

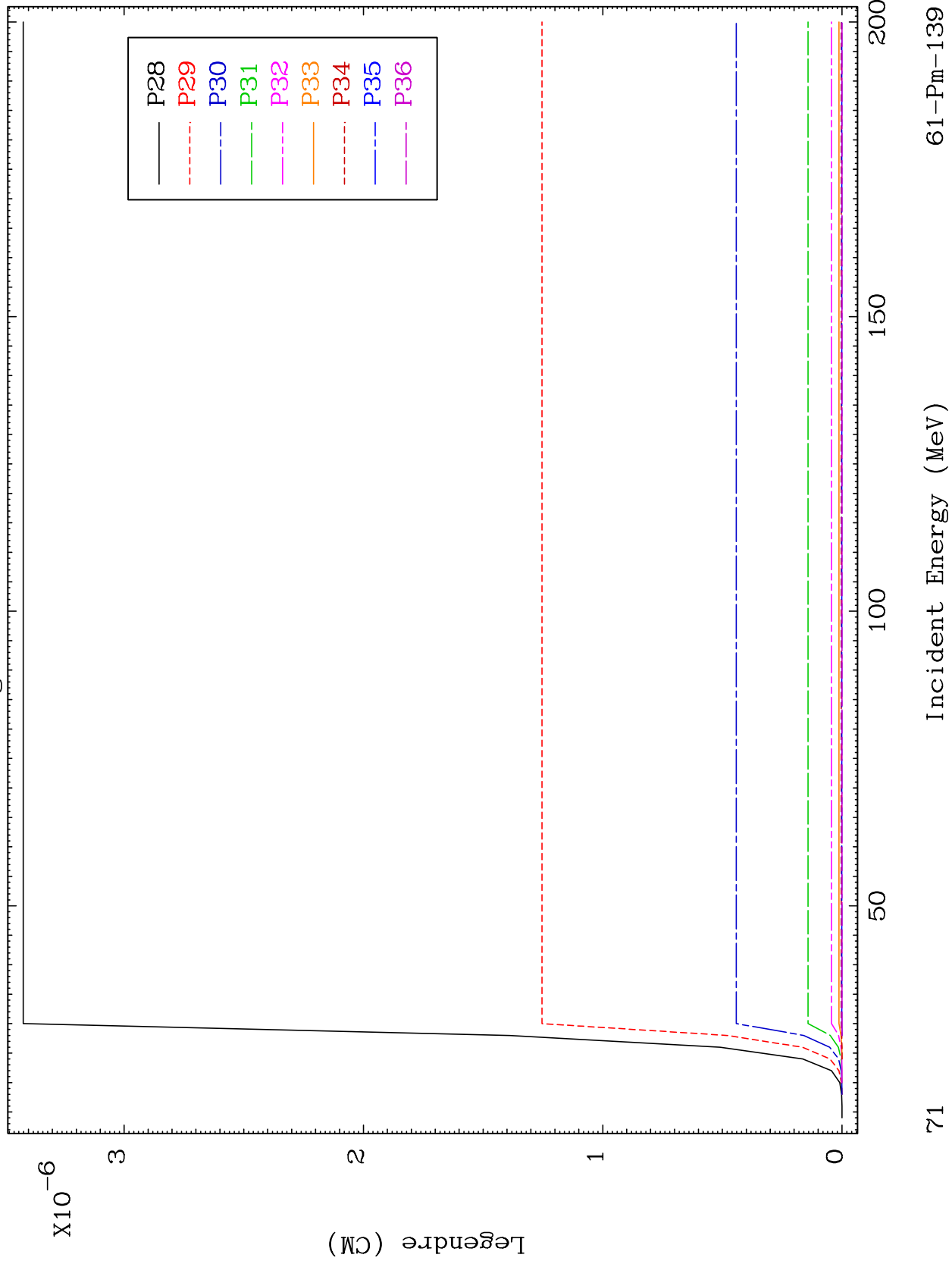
61-Pm-139



MAT 6125

855.7 keV (n,n') Level
Legendre Coefficients

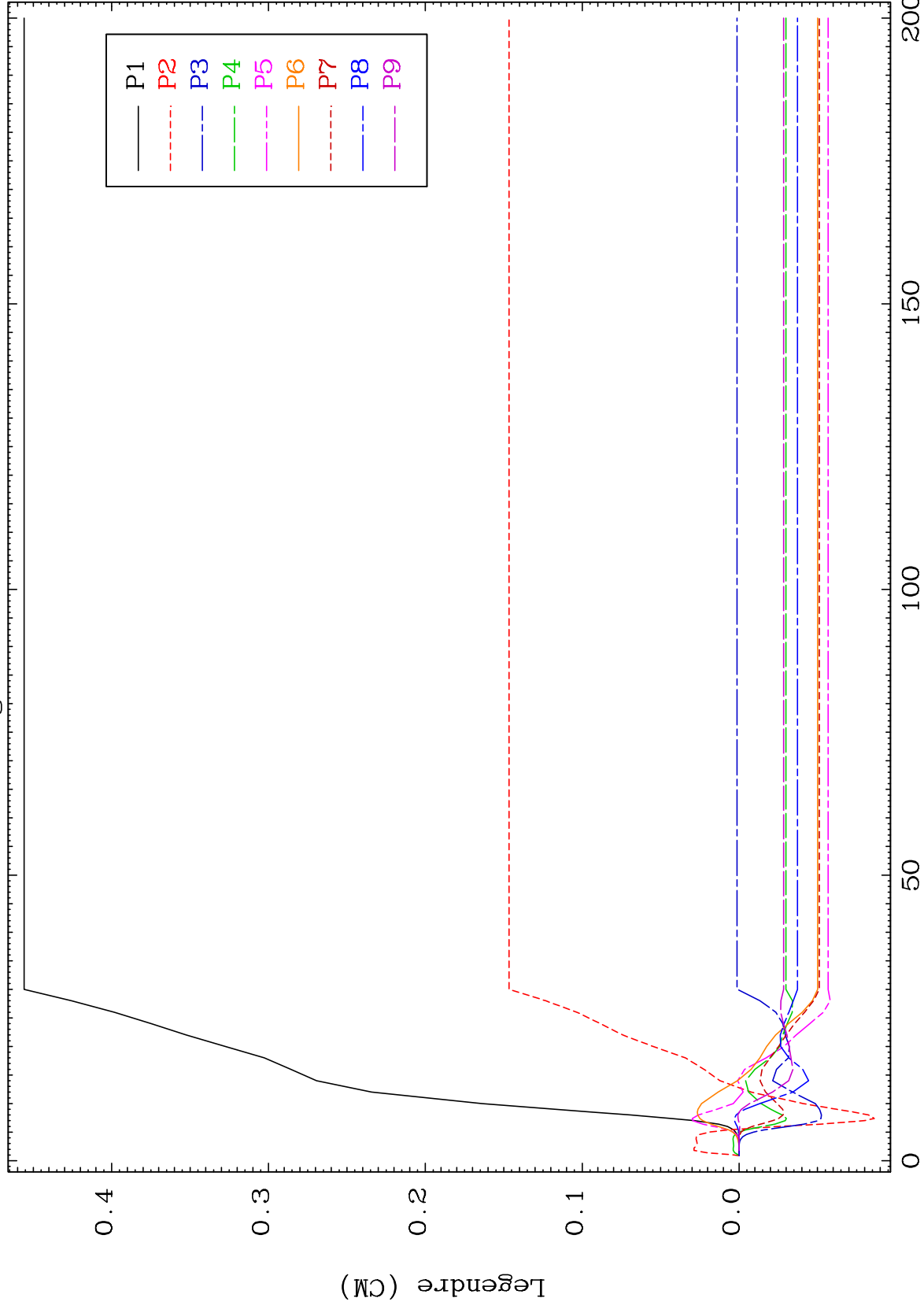
61-Pm-139



MAT 6125

862.2 keV (n,n') Level
Legendre Coefficients

61-Pm-139



72

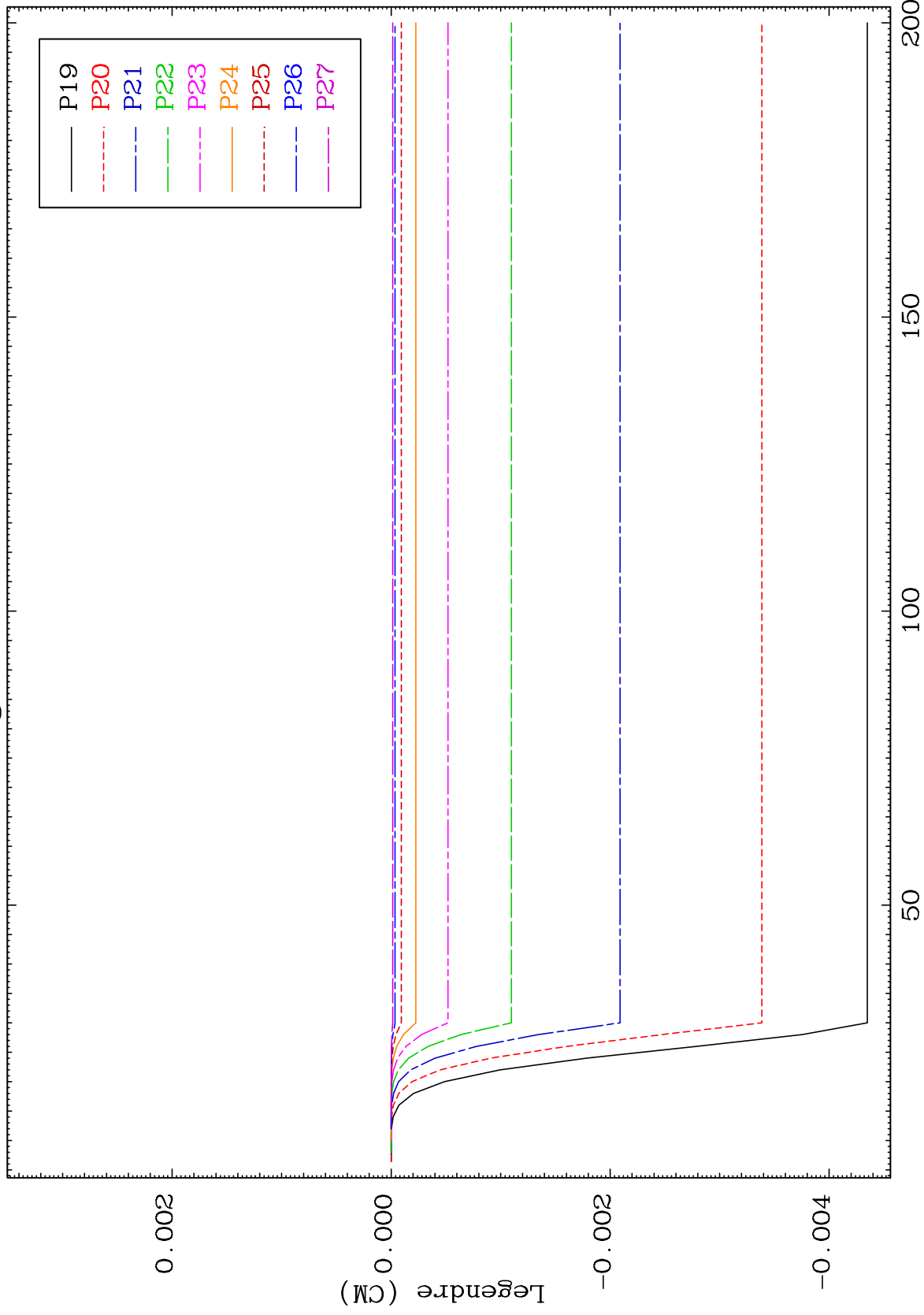
Incident Energy (MeV)

61-Pm-139

MAT 6125

862.2 keV (n,n') Level
Legendre Coefficients

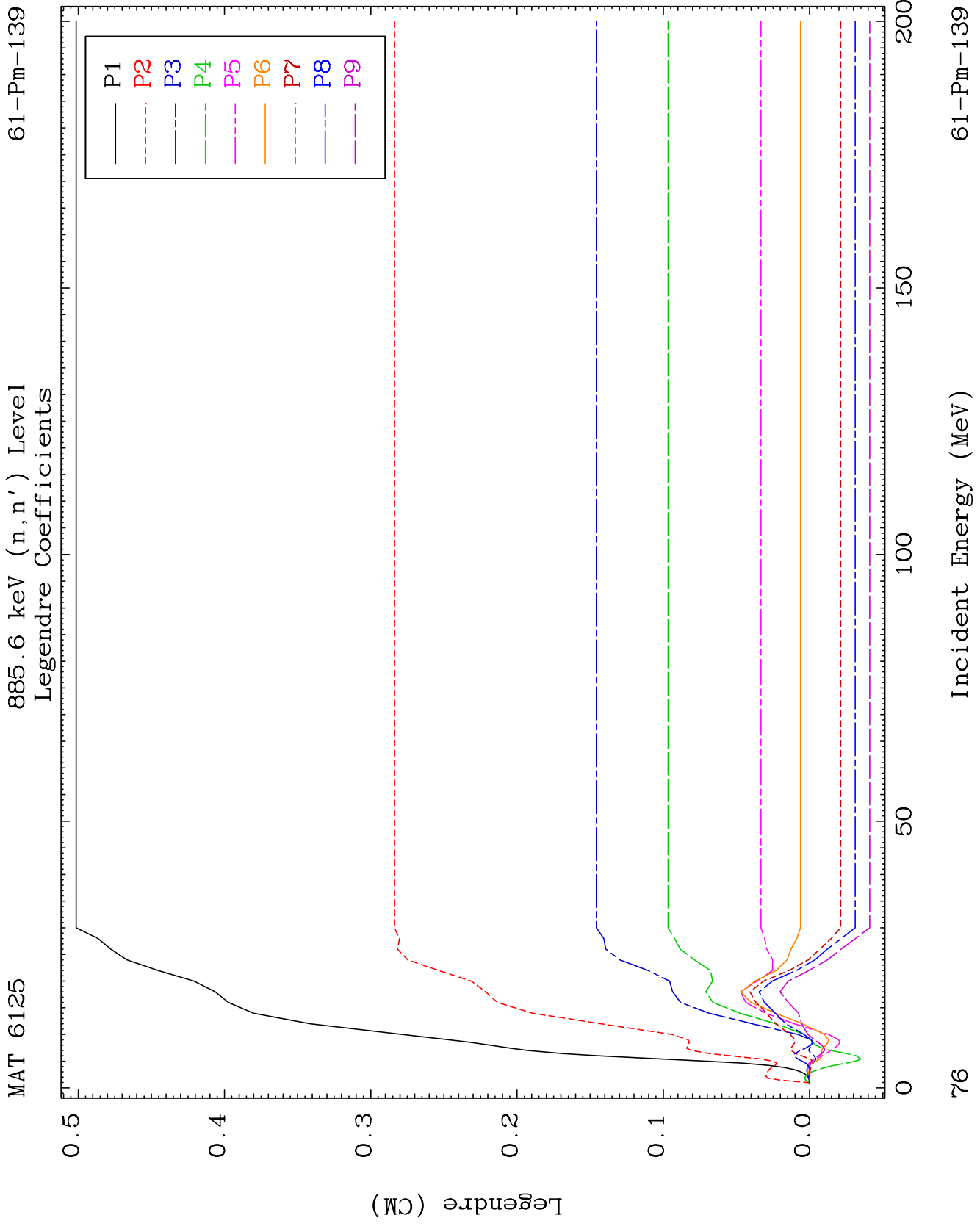
61-Pm-139

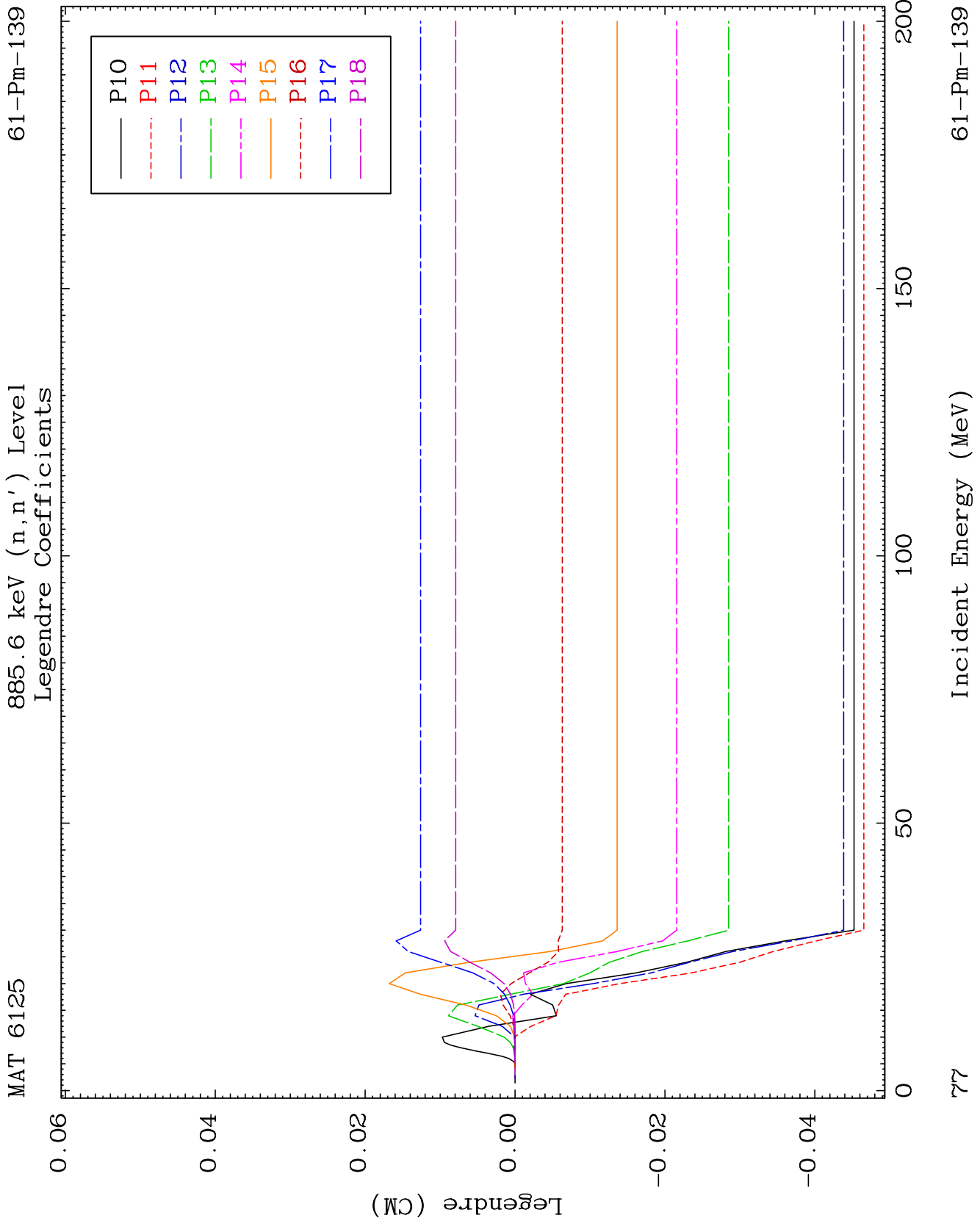


74

Incident Energy (MeV)

61-Pm-139

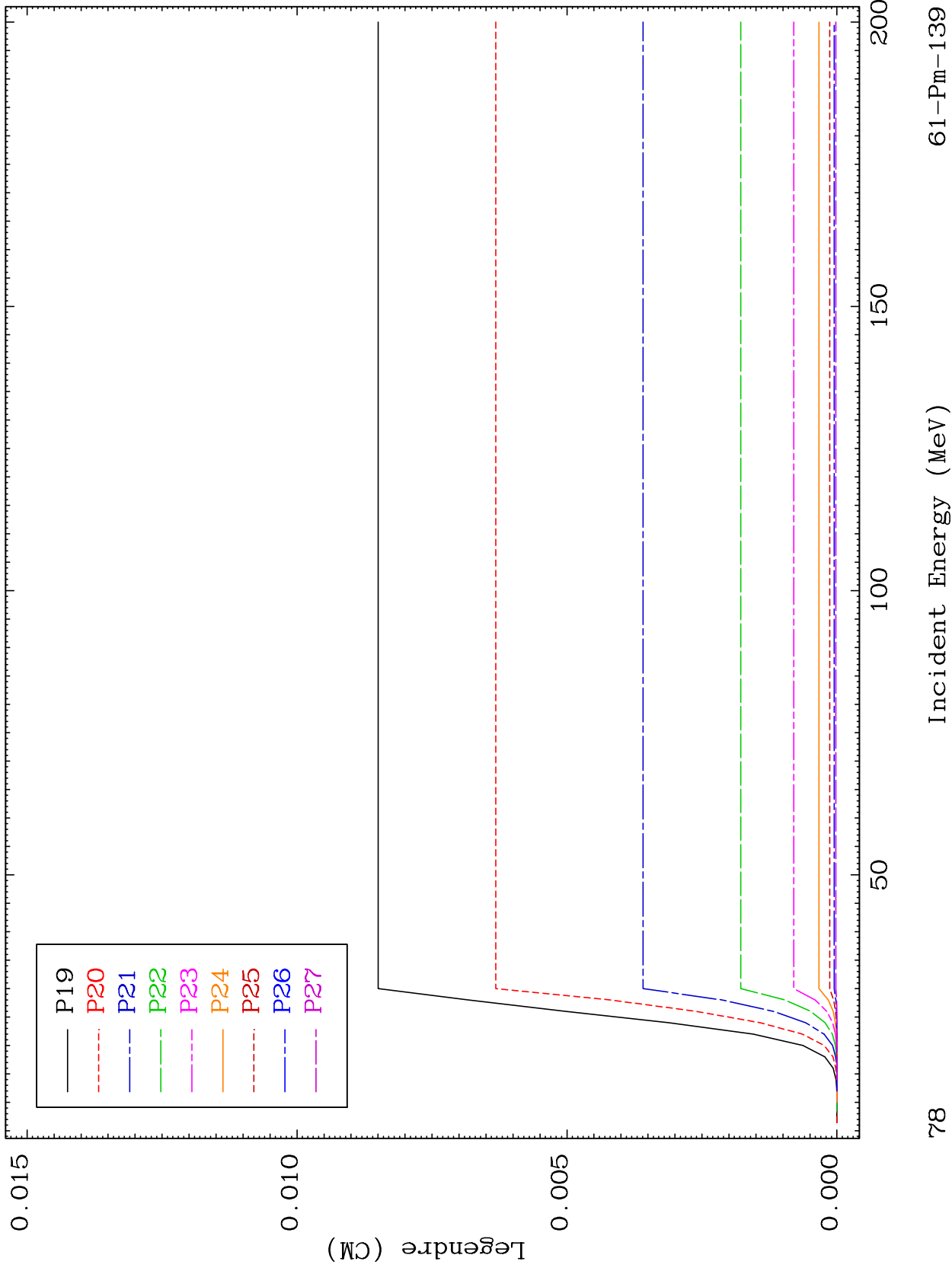




MAT 6125

885.6 keV (n,n') Level
Legendre Coefficients

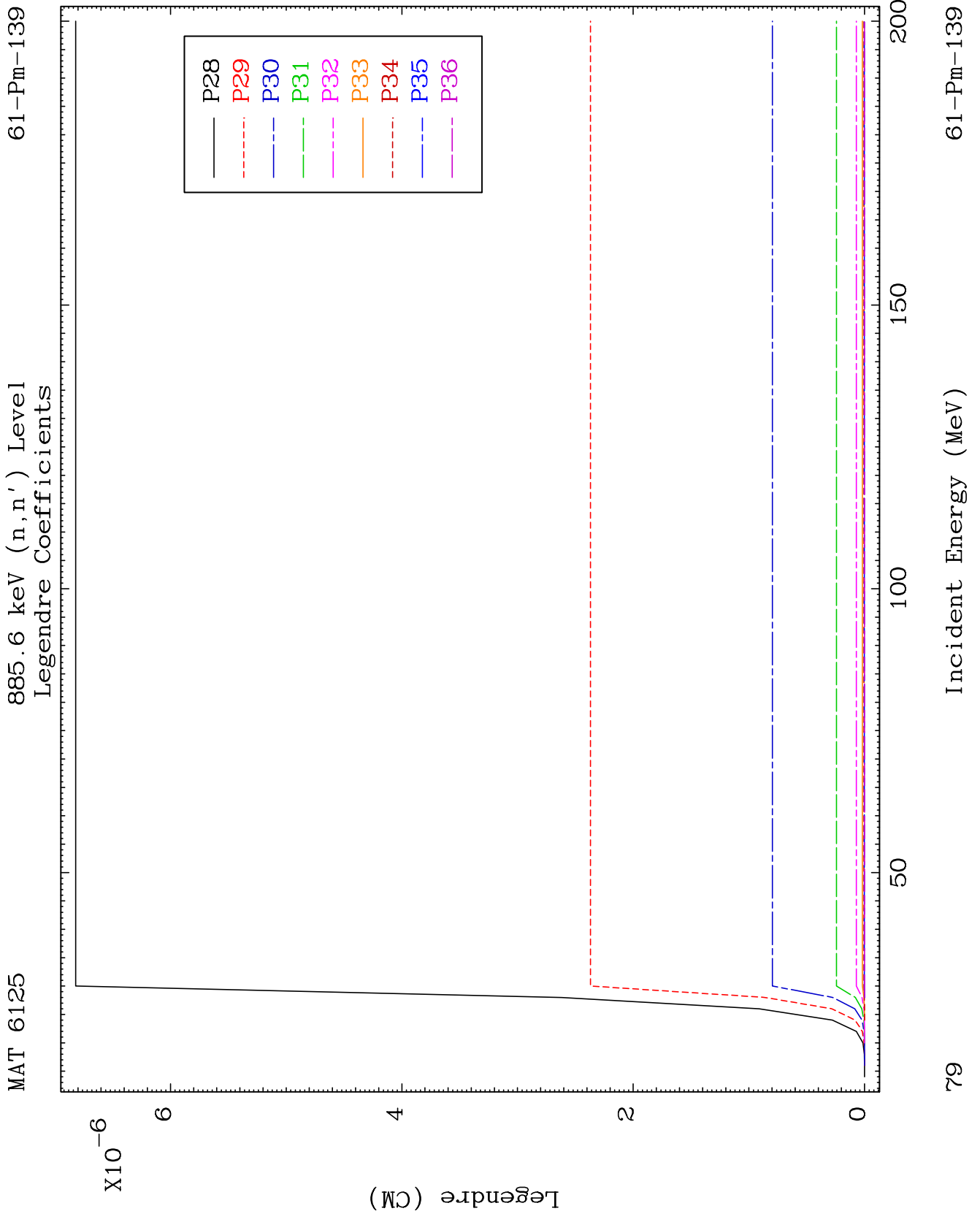
61-Pm-139

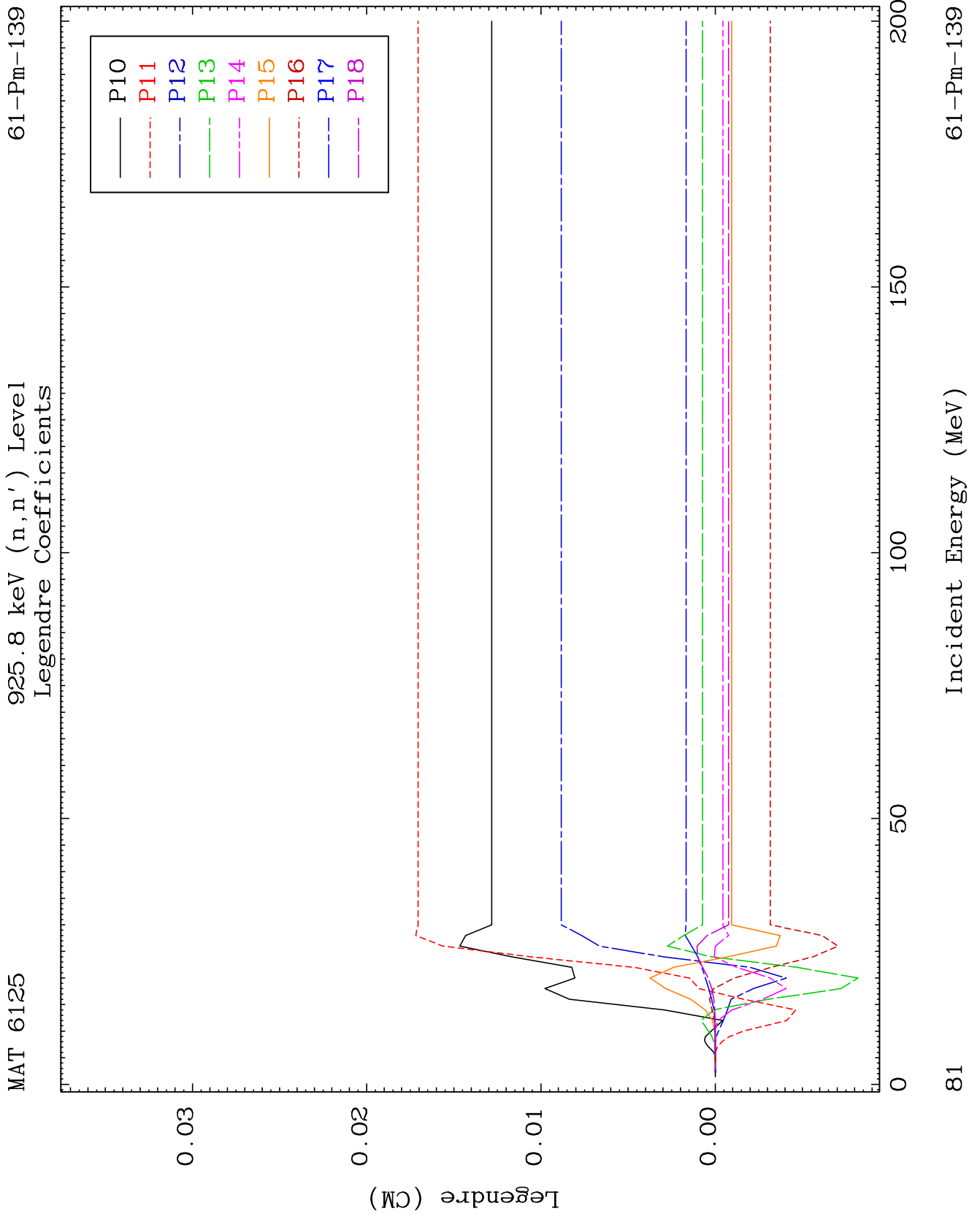


78

Incident Energy (MeV)

61-Pm-139

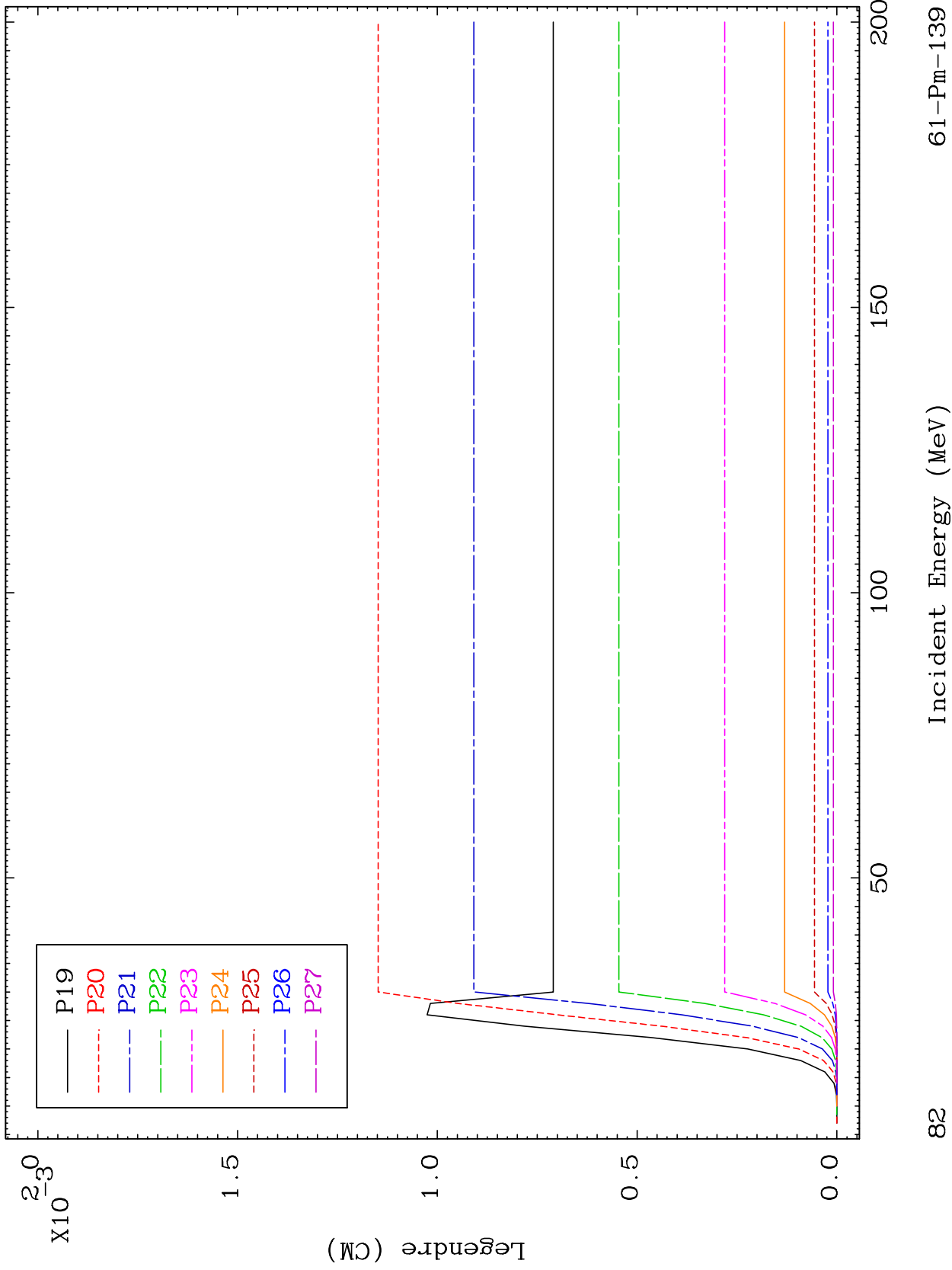




MAT 6125

925.8 keV (n, n') Level
Legendre Coefficients

61-Pm-139

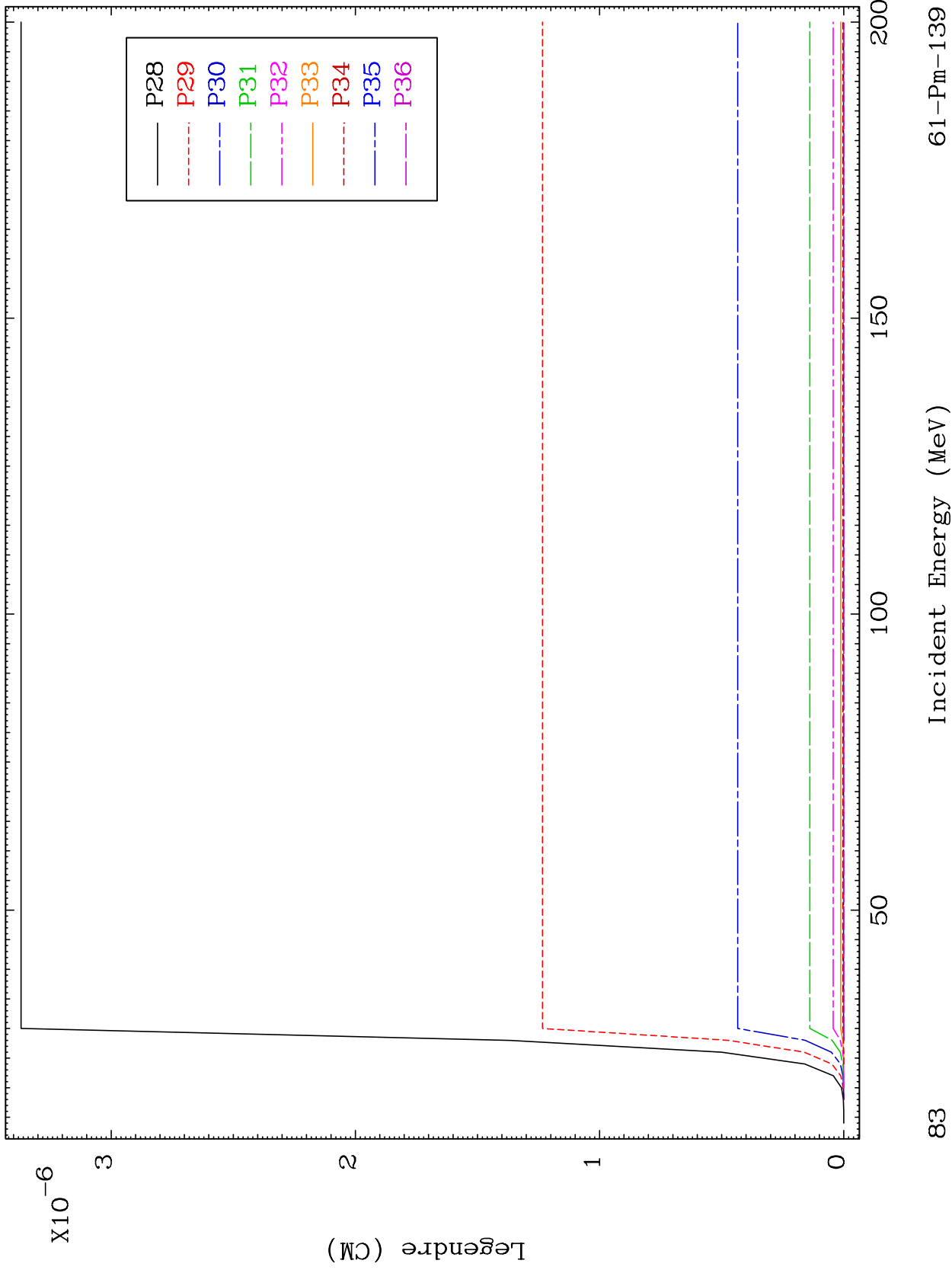


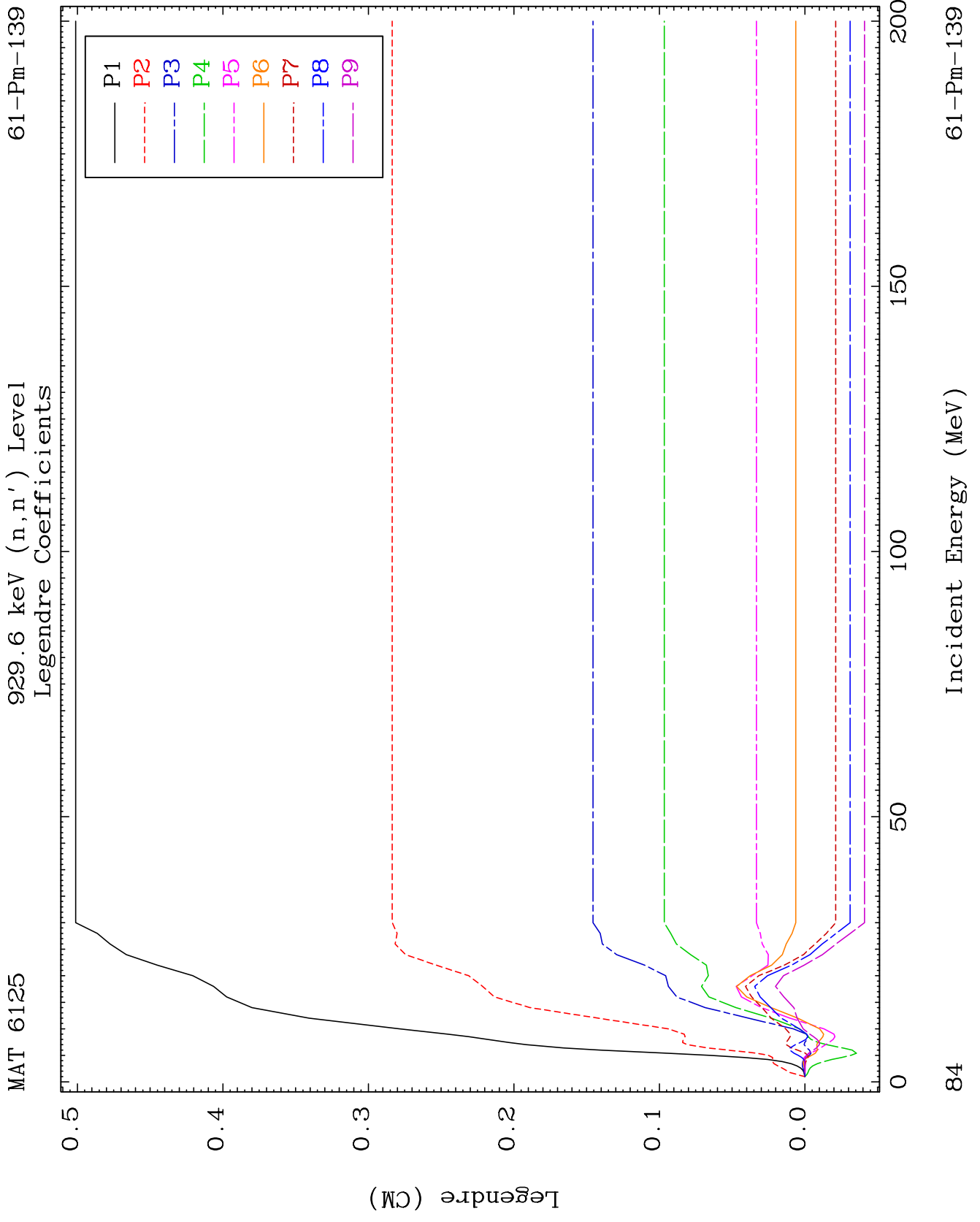
82

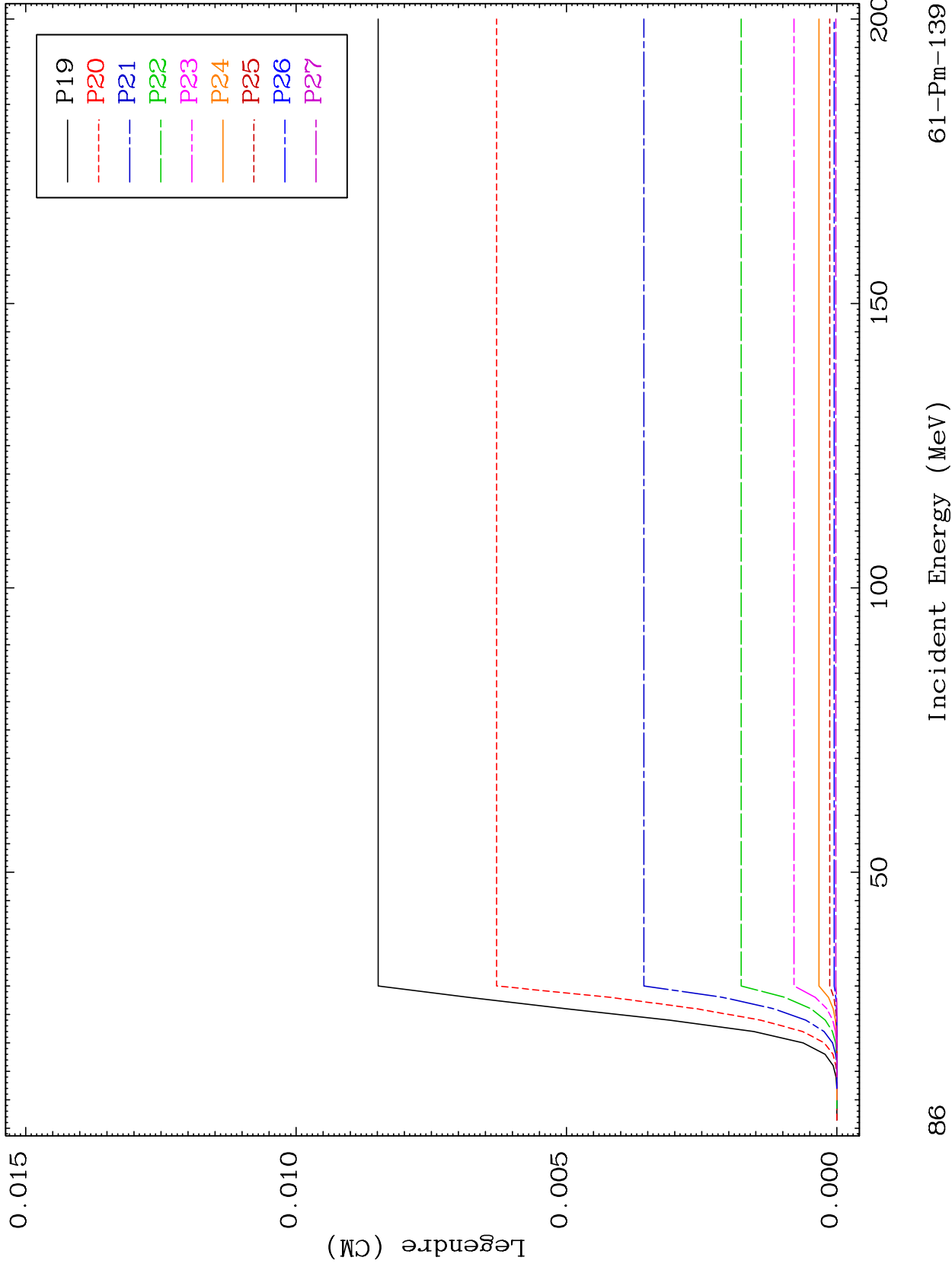
MAT 6125

925.8 keV (n,n') Level
Legendre Coefficients

61-Pm-139



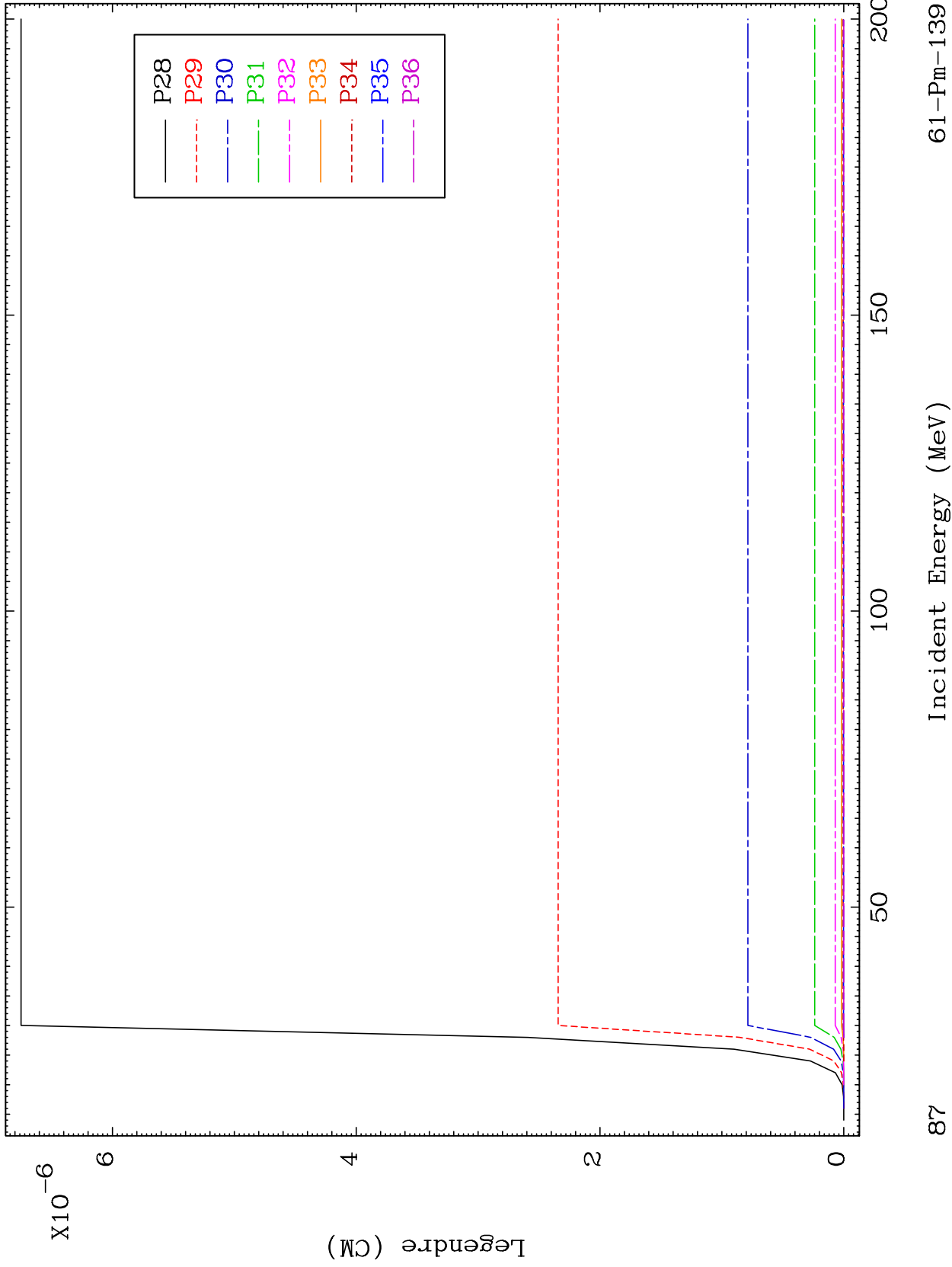


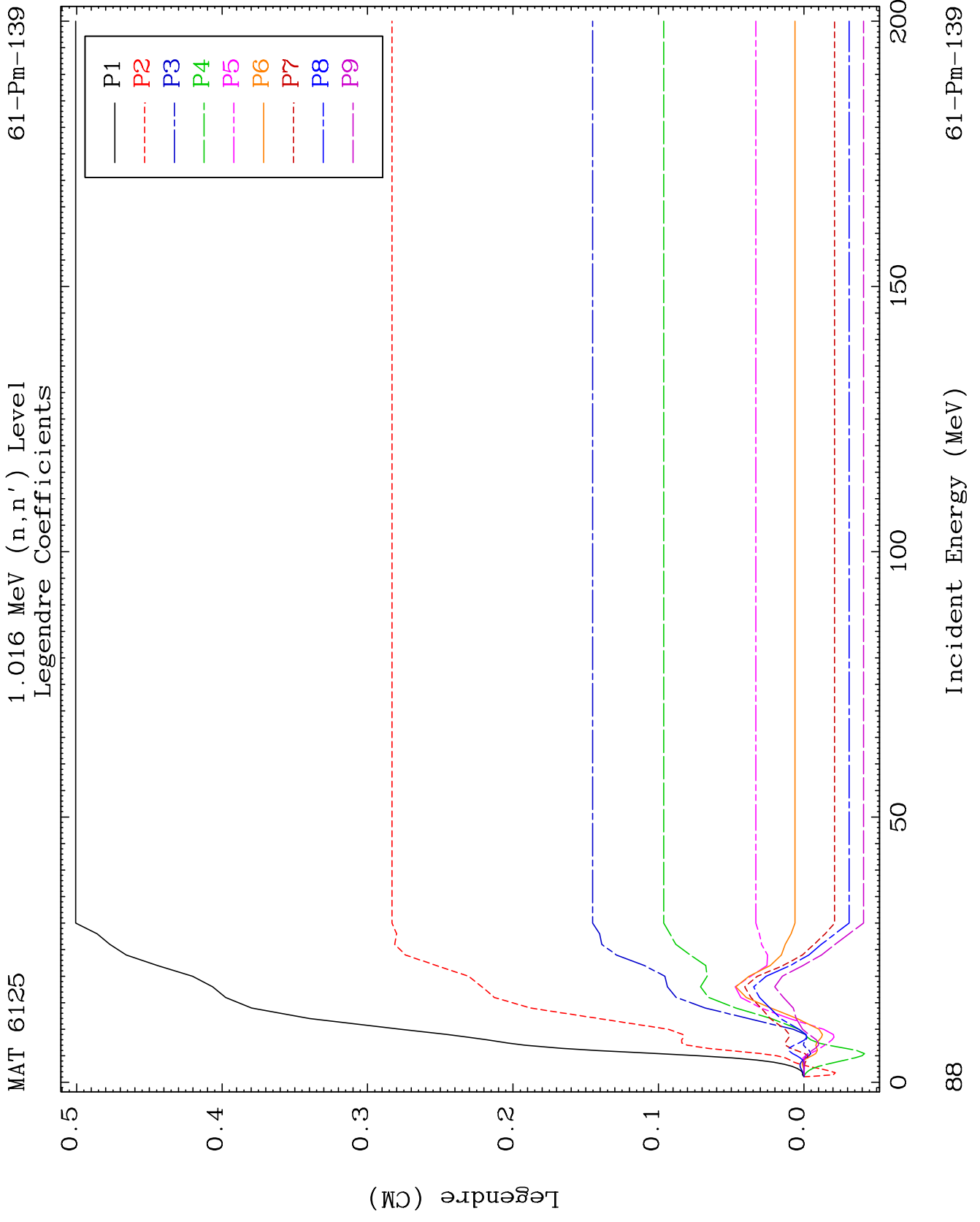


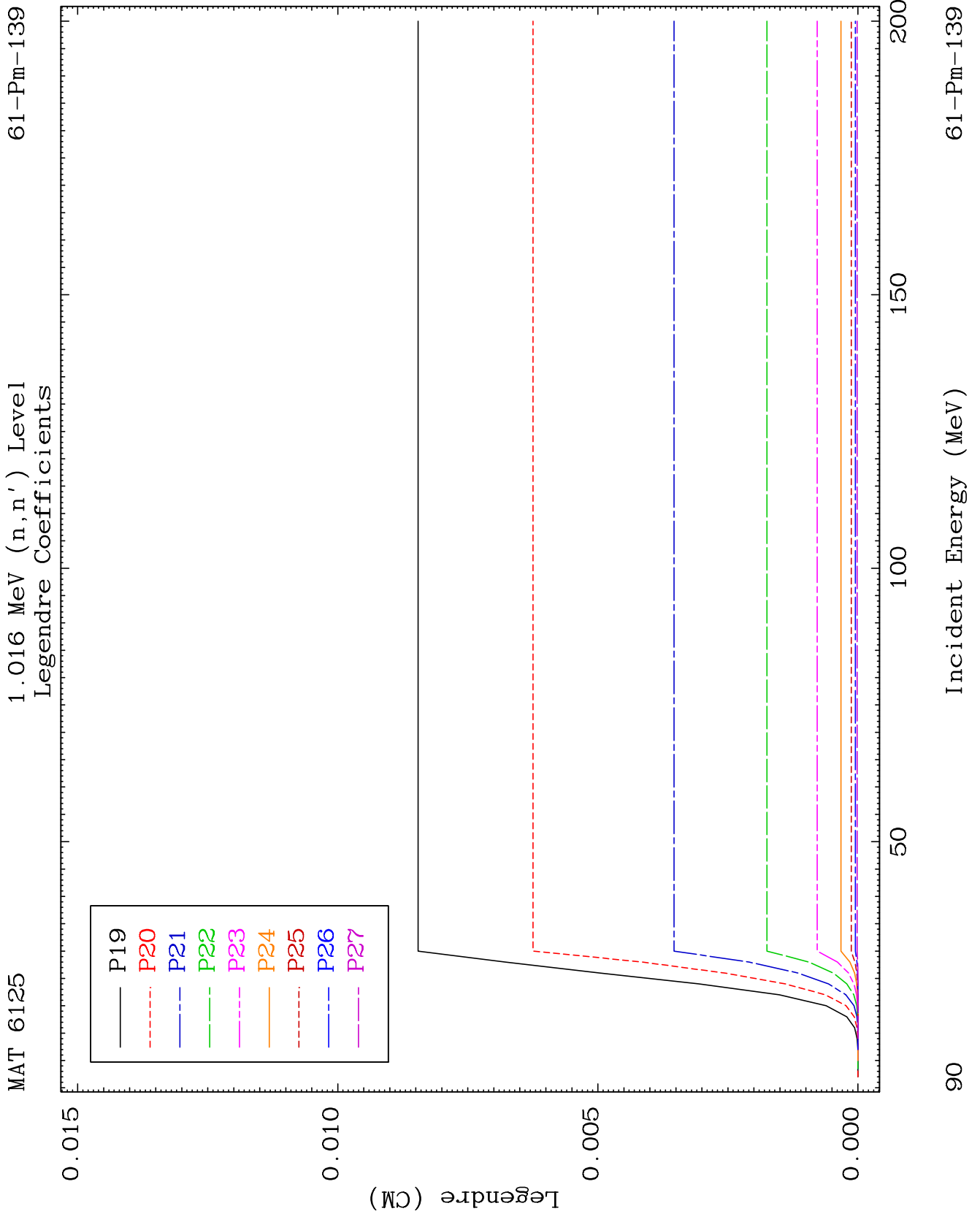
MAT 6125

929.6 keV (n,n') Level
Legendre Coefficients

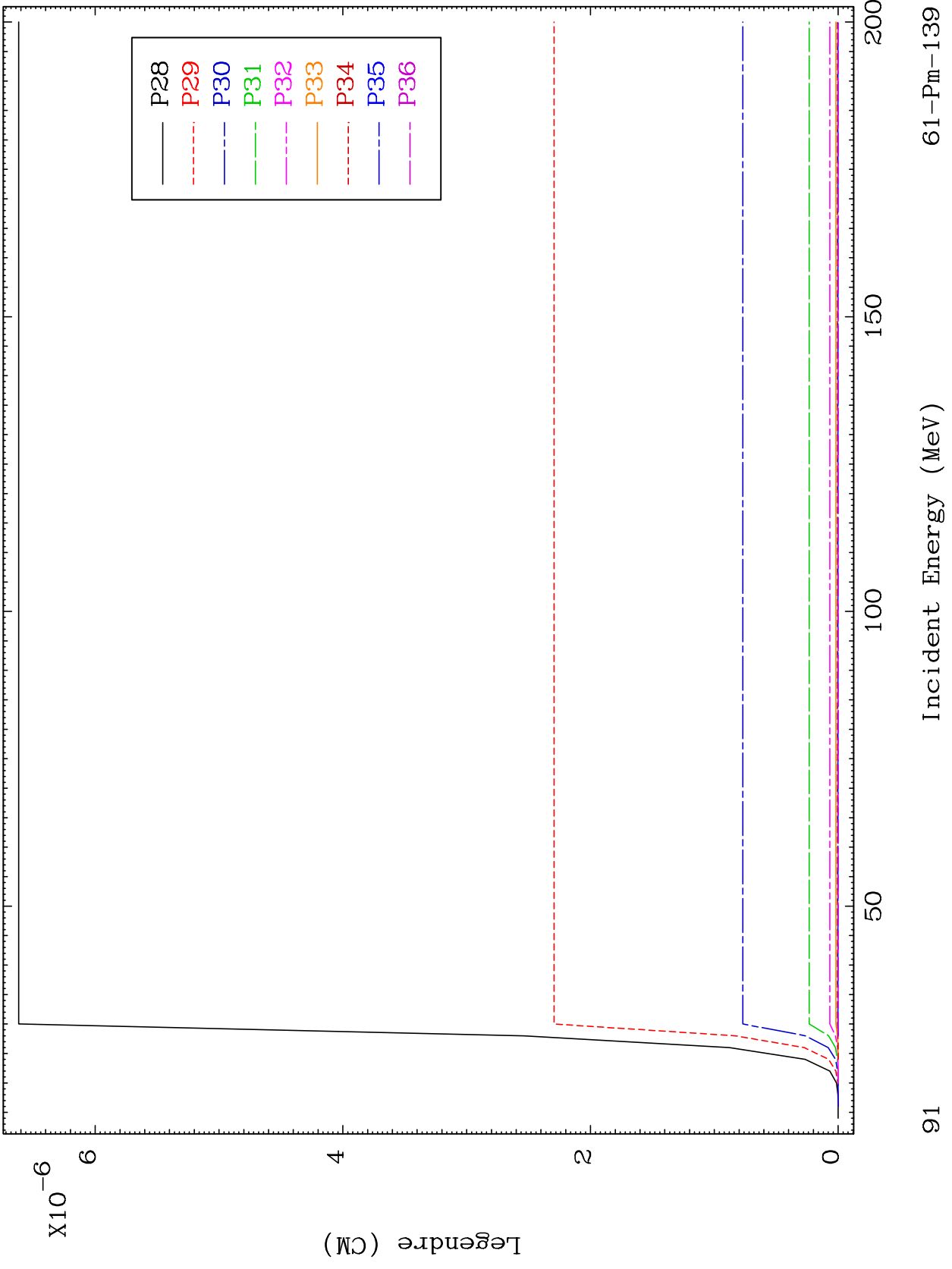
61-Pm-139







MAT 6125 1.016 MeV (n,n') Level Legendre Coefficients 61-Pm-139

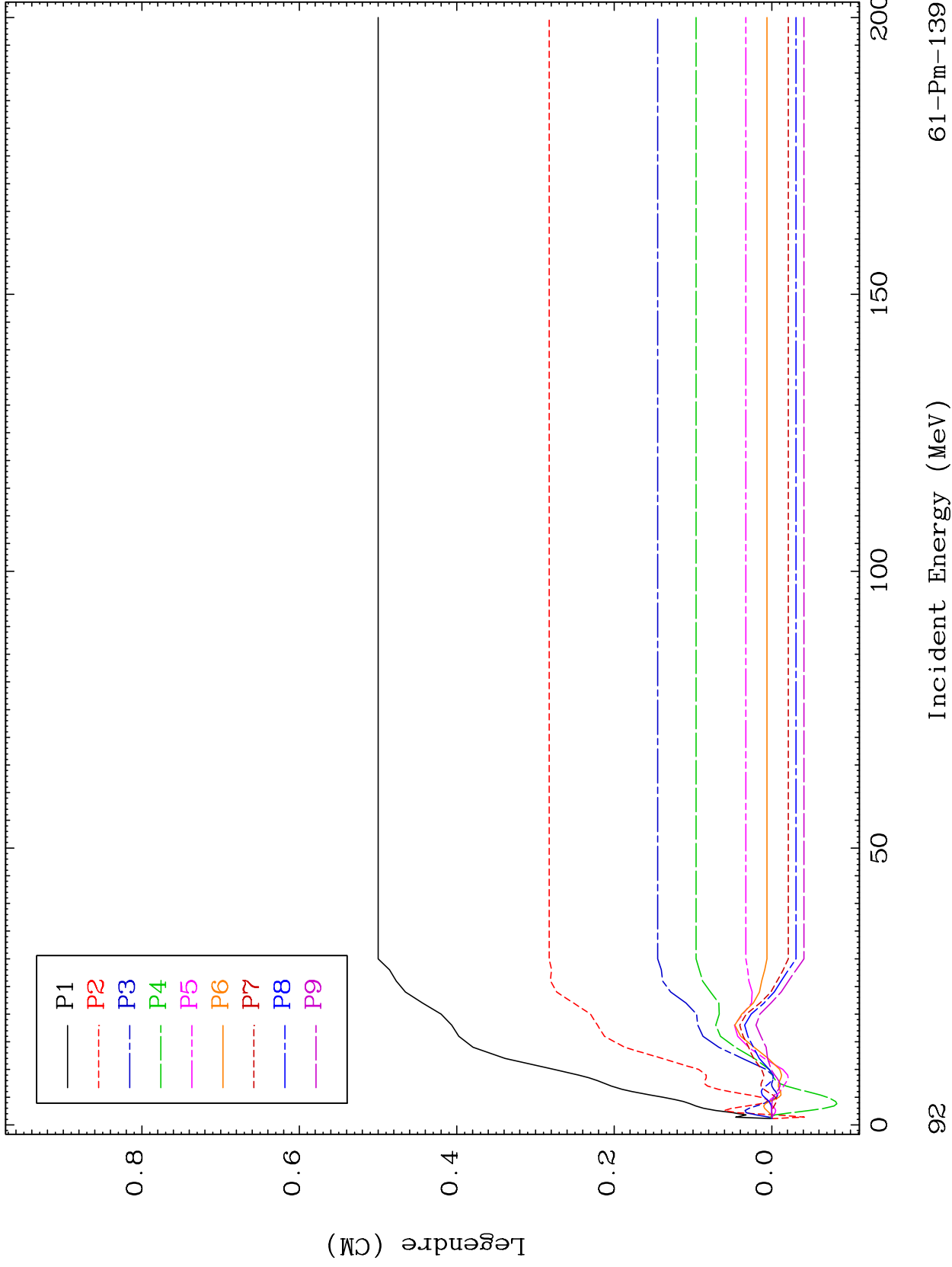


91 61-Pm-139

MAT 6125

1.111 MeV (n,n') Level
Legendre Coefficients

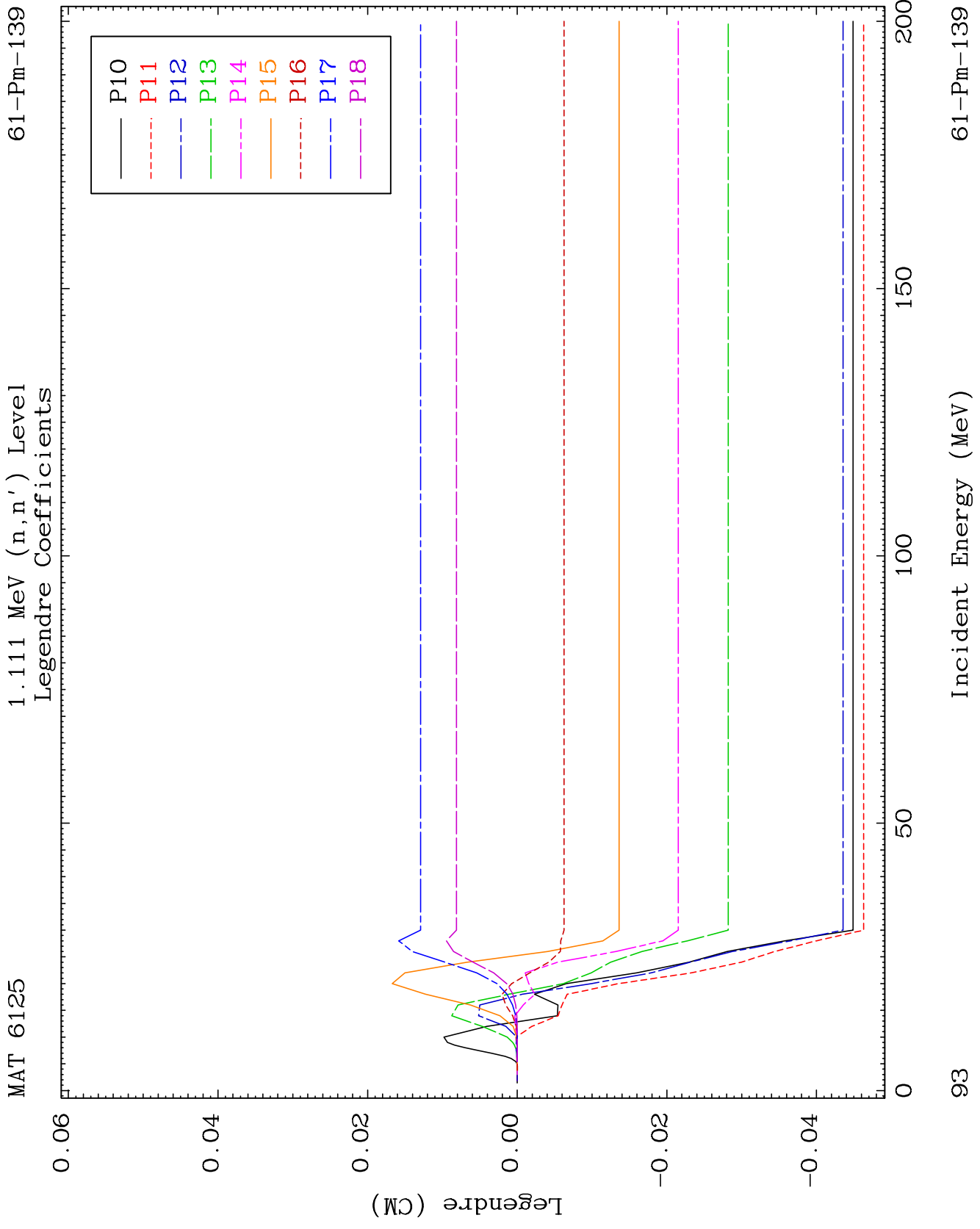
61-Pm-139

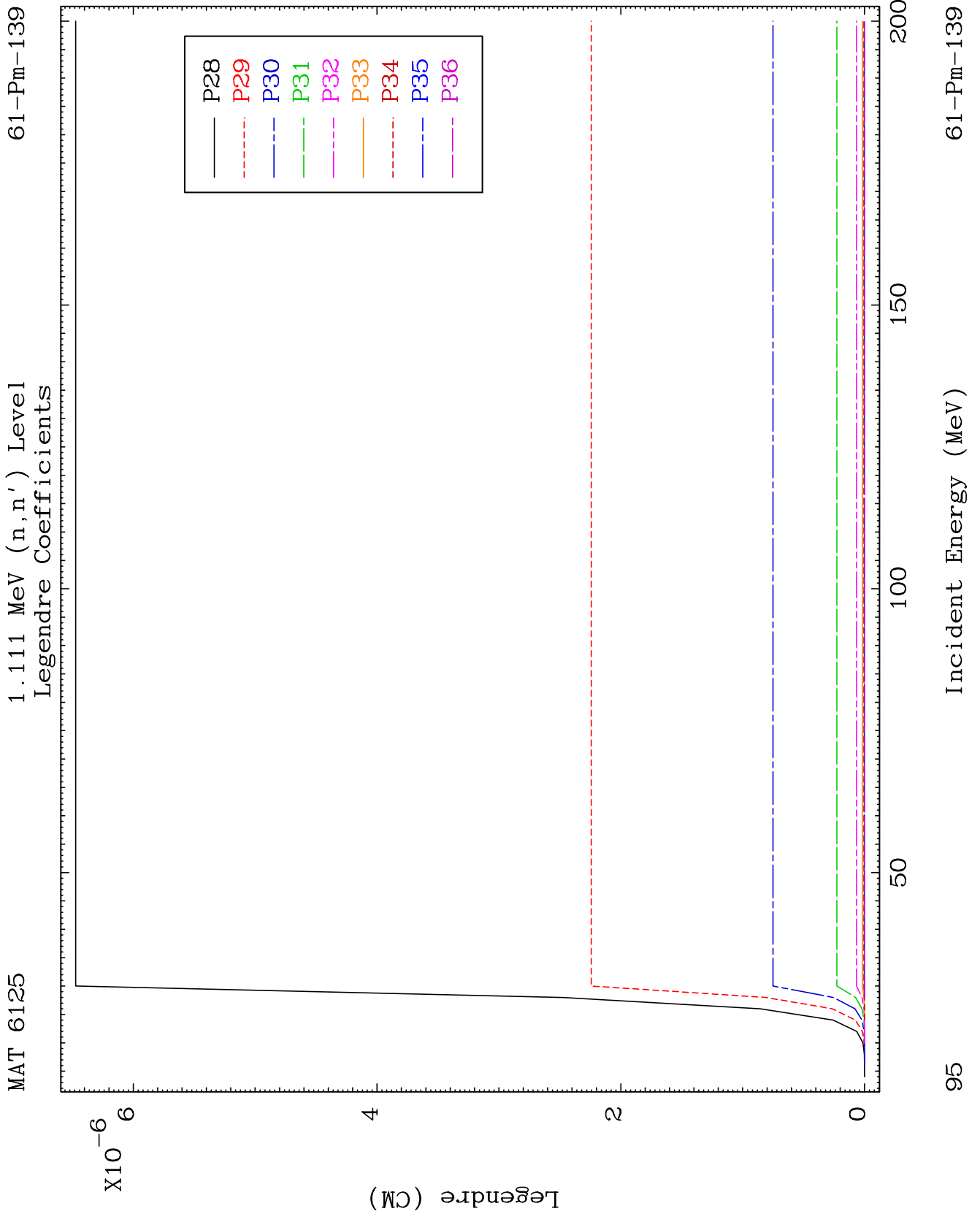


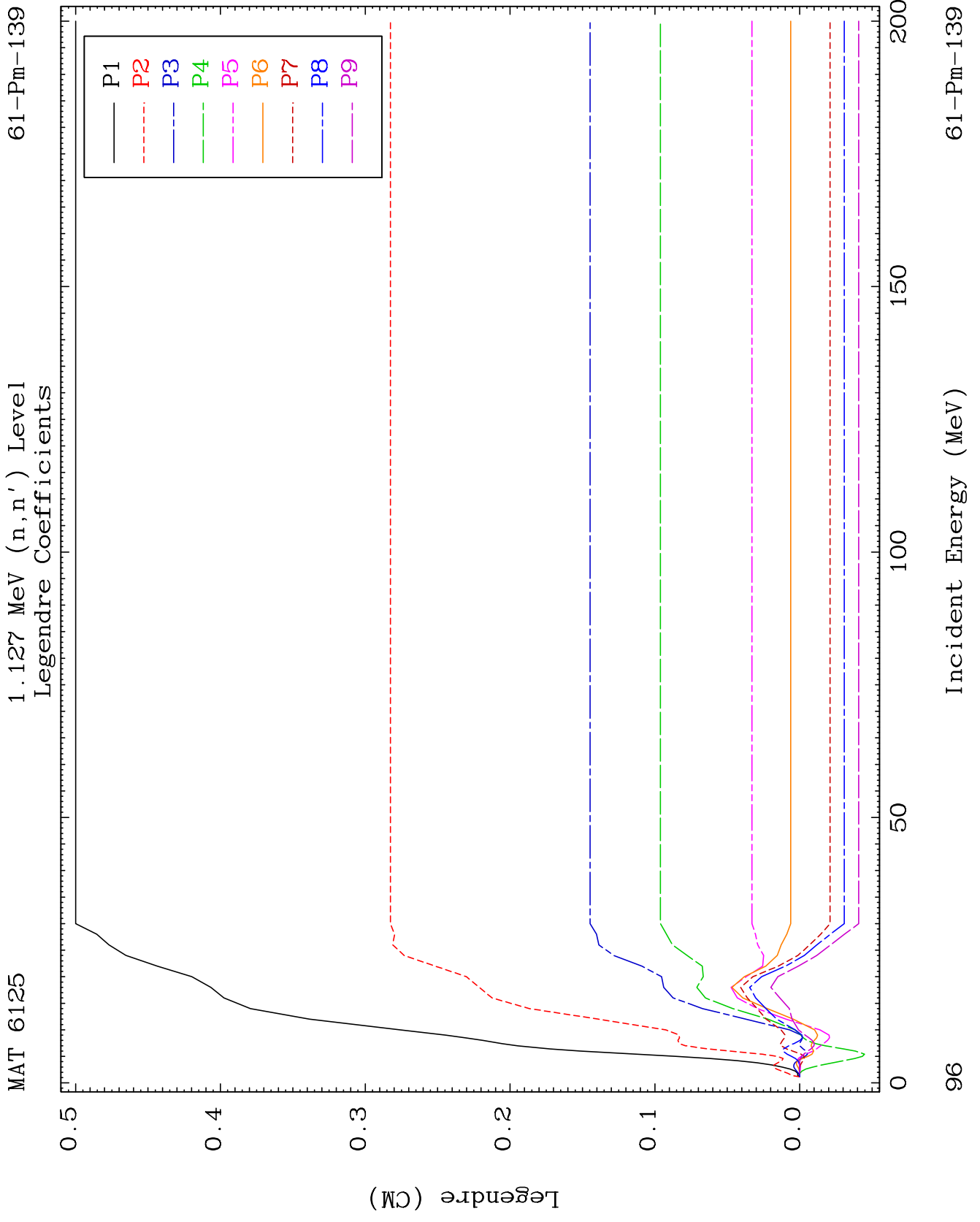
61-Pm-139

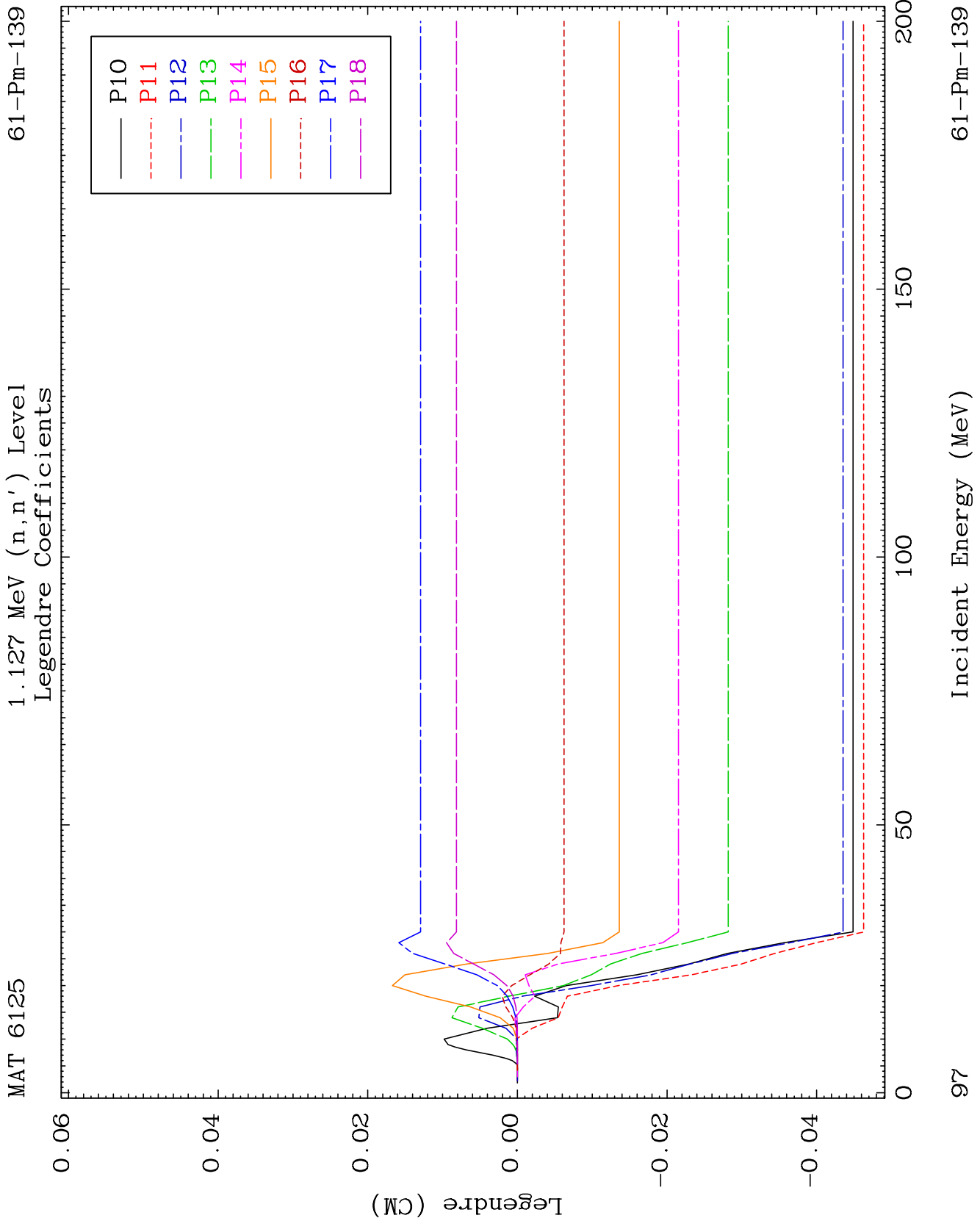
Incident Energy (MeV)

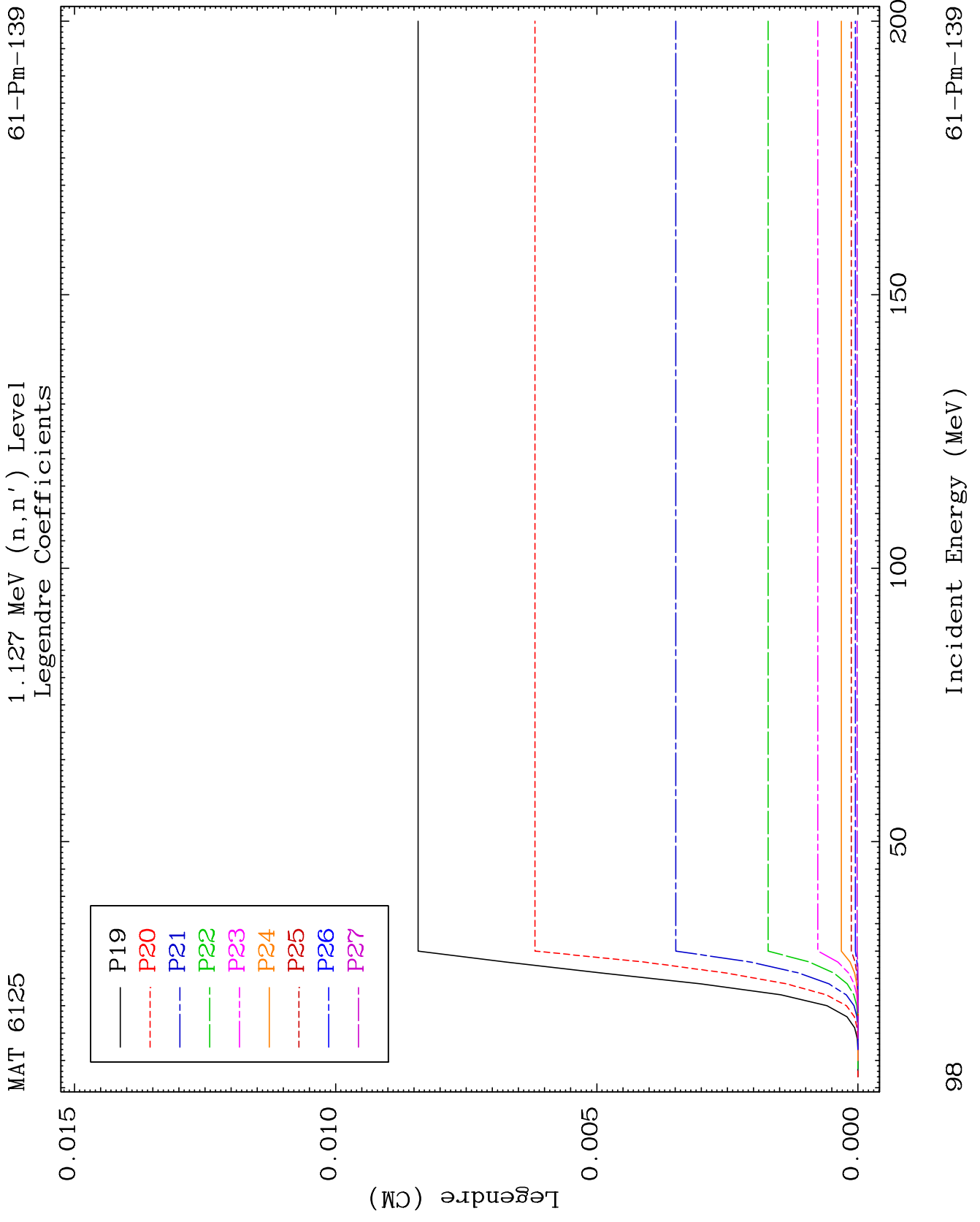
92

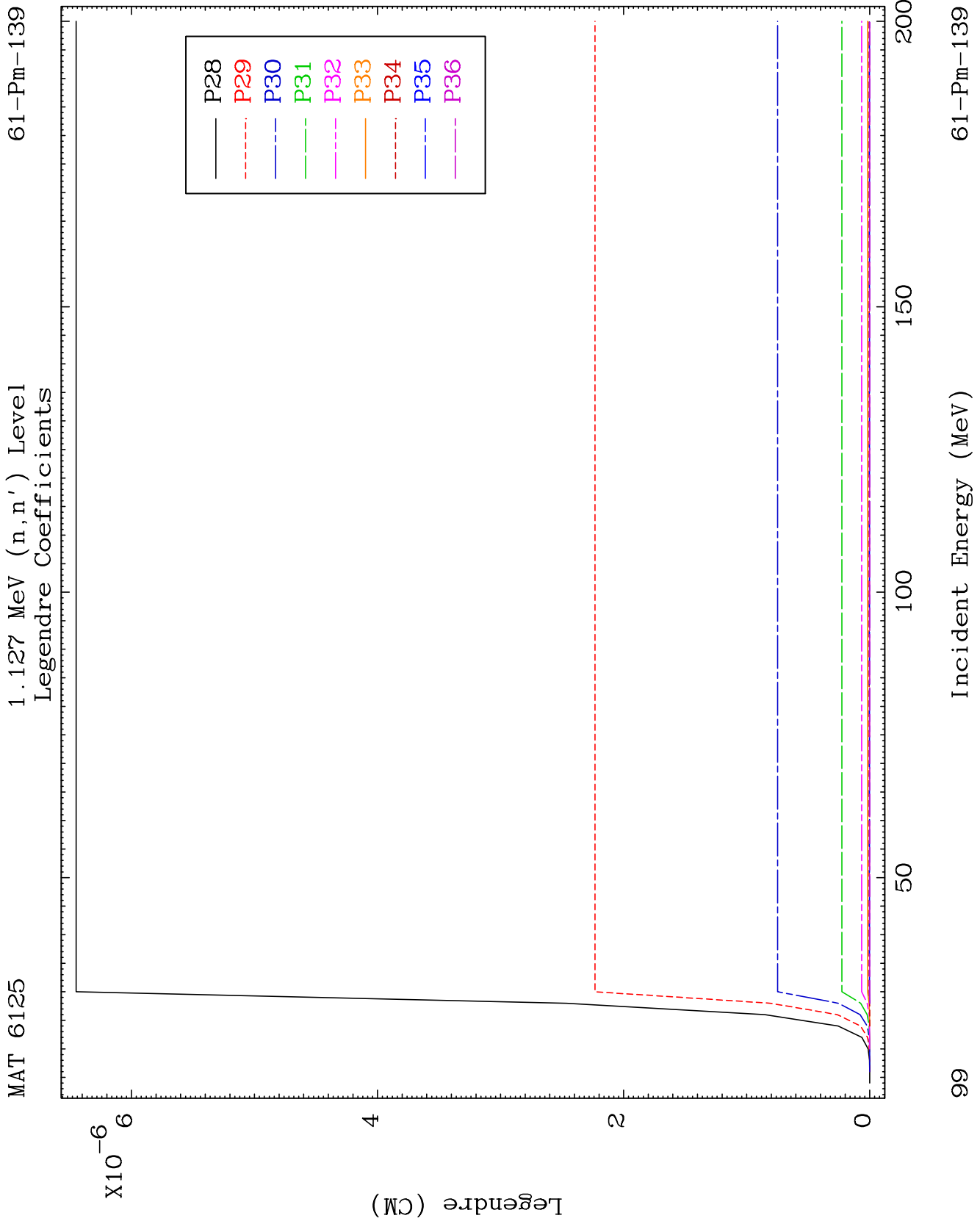


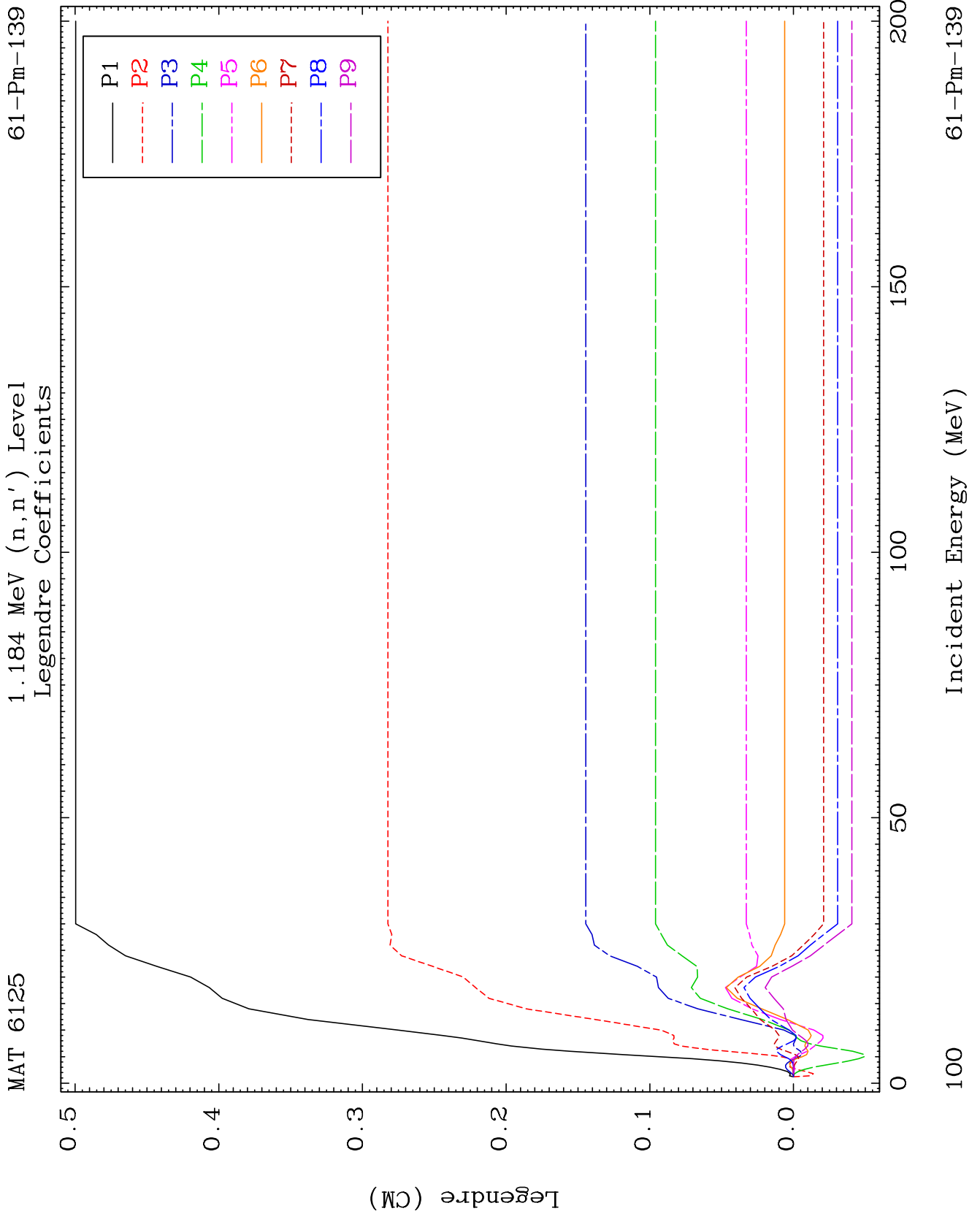


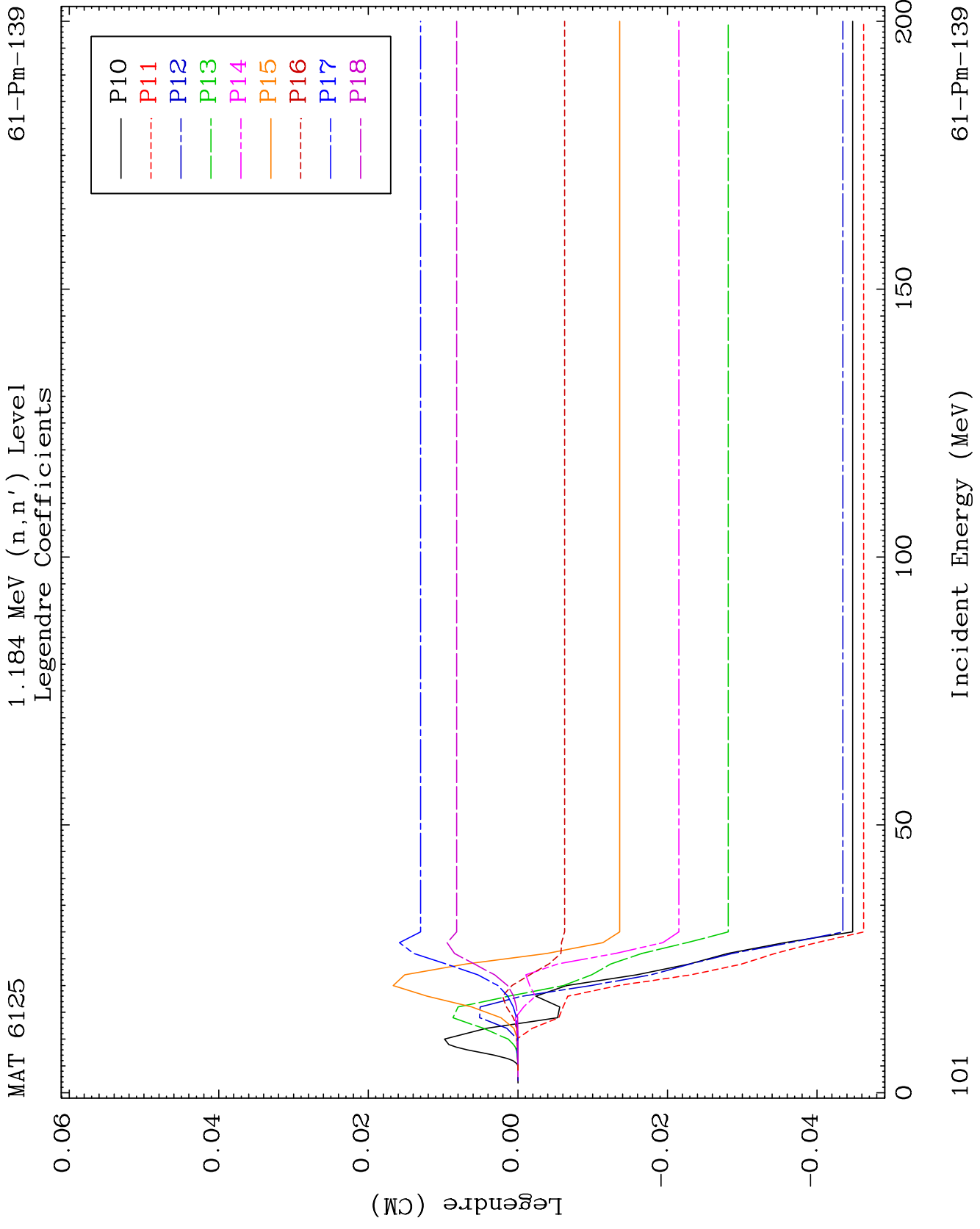


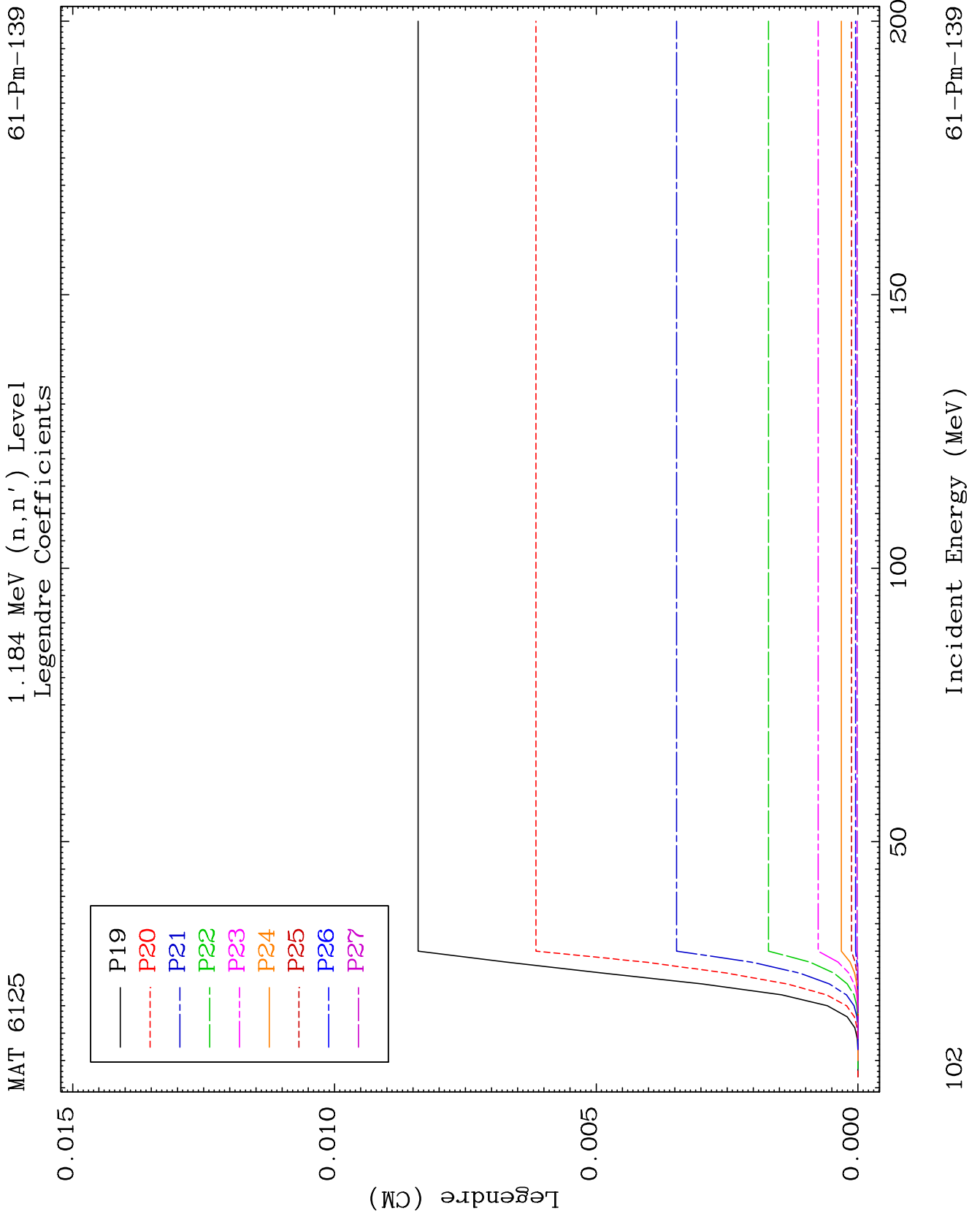


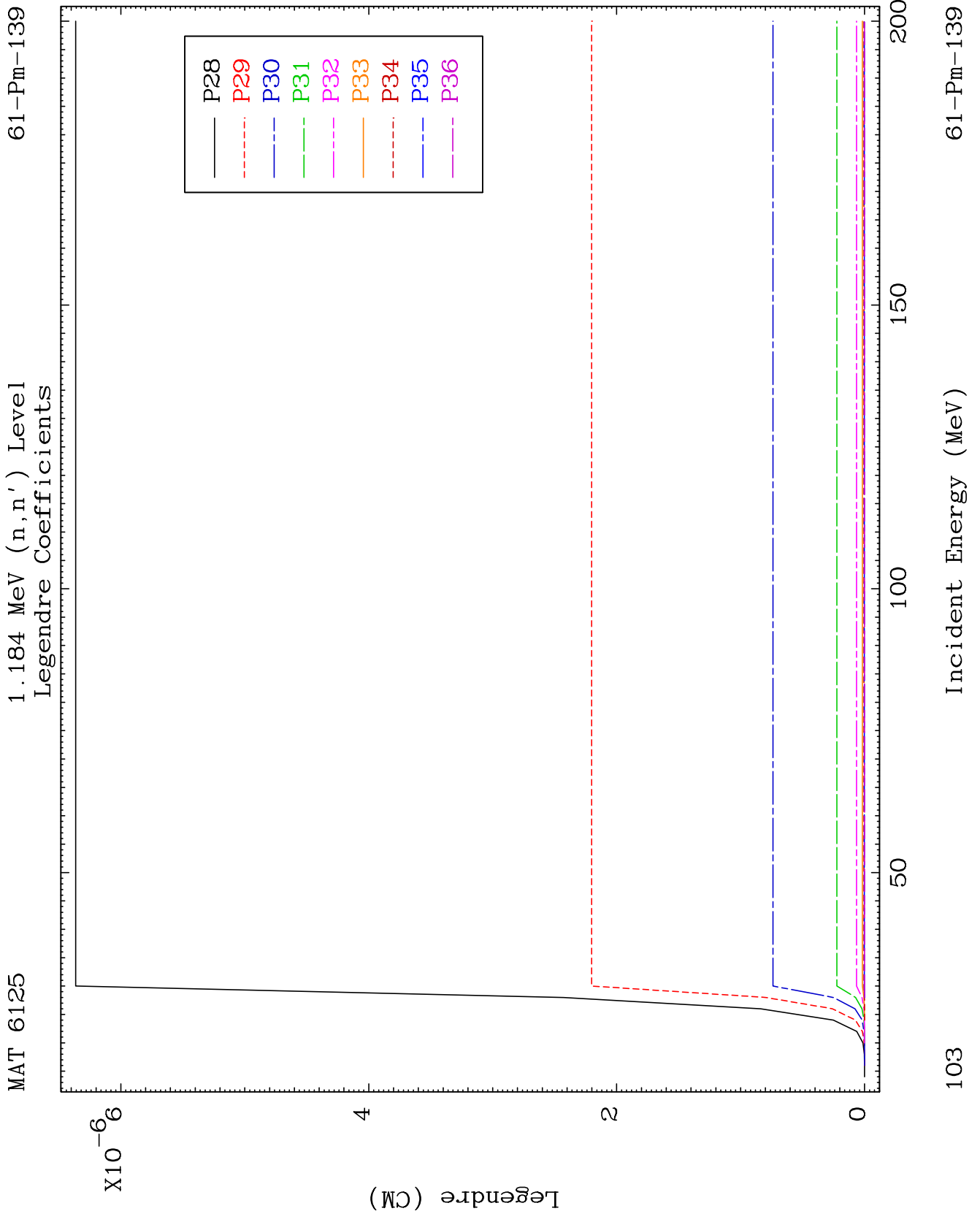


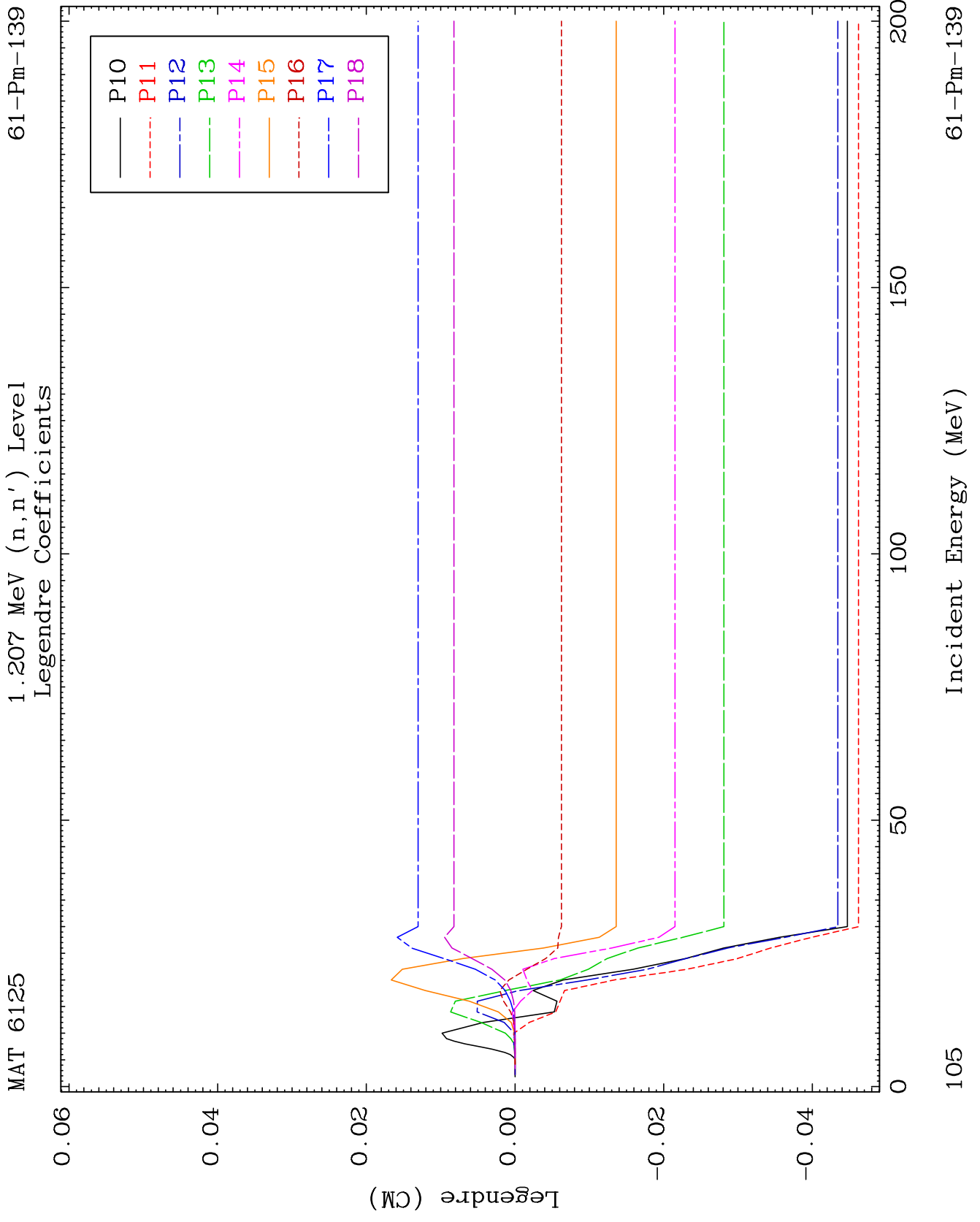


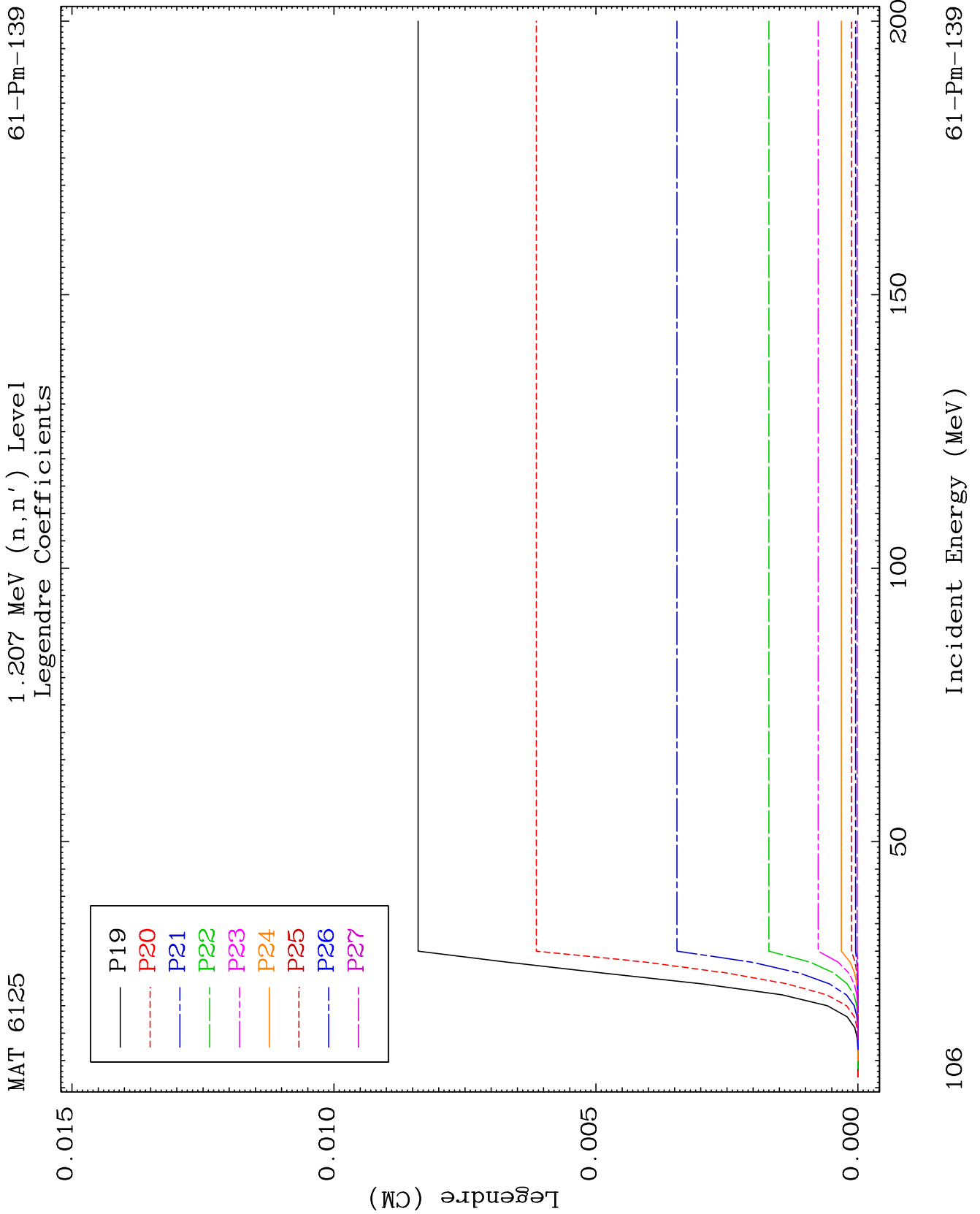


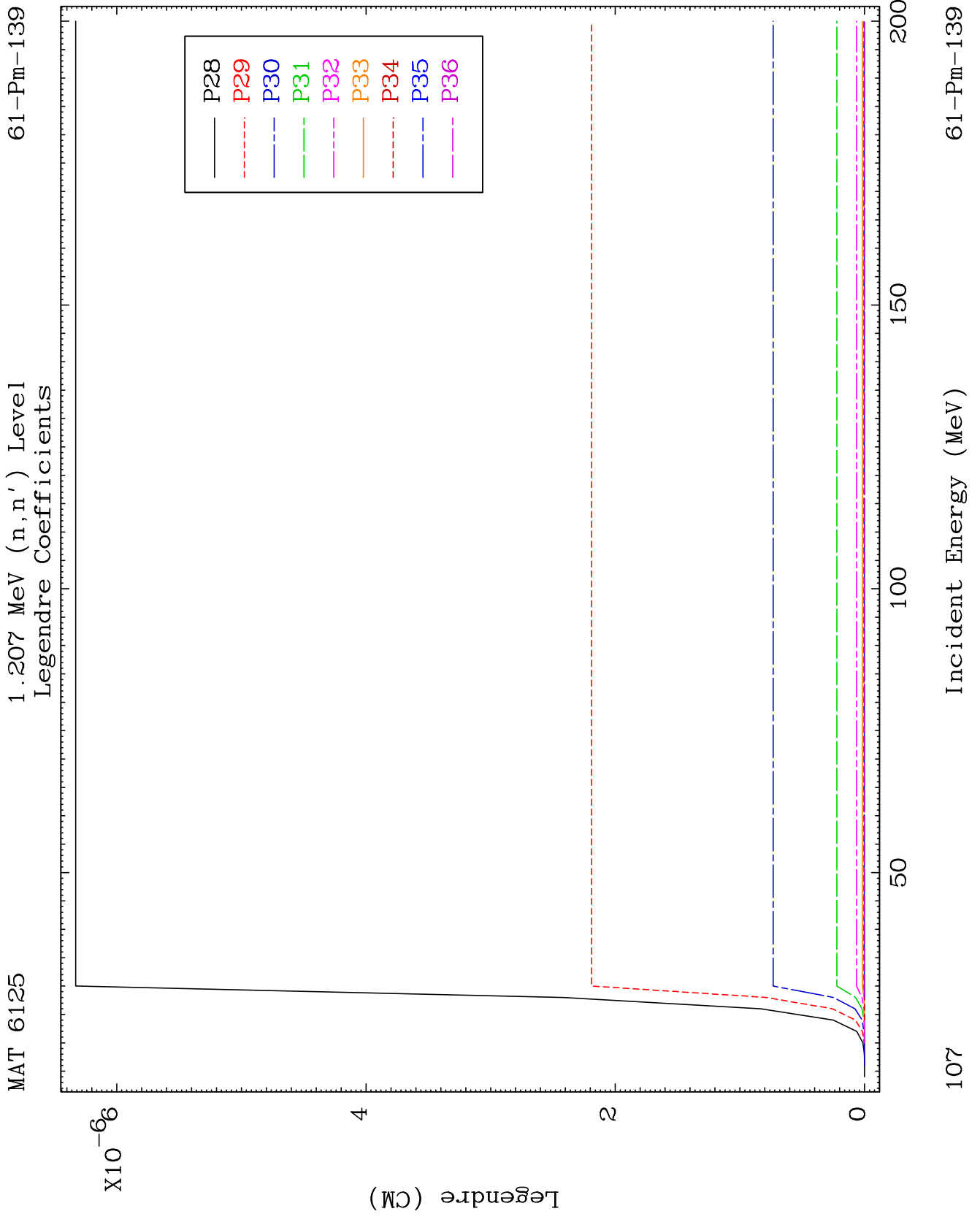


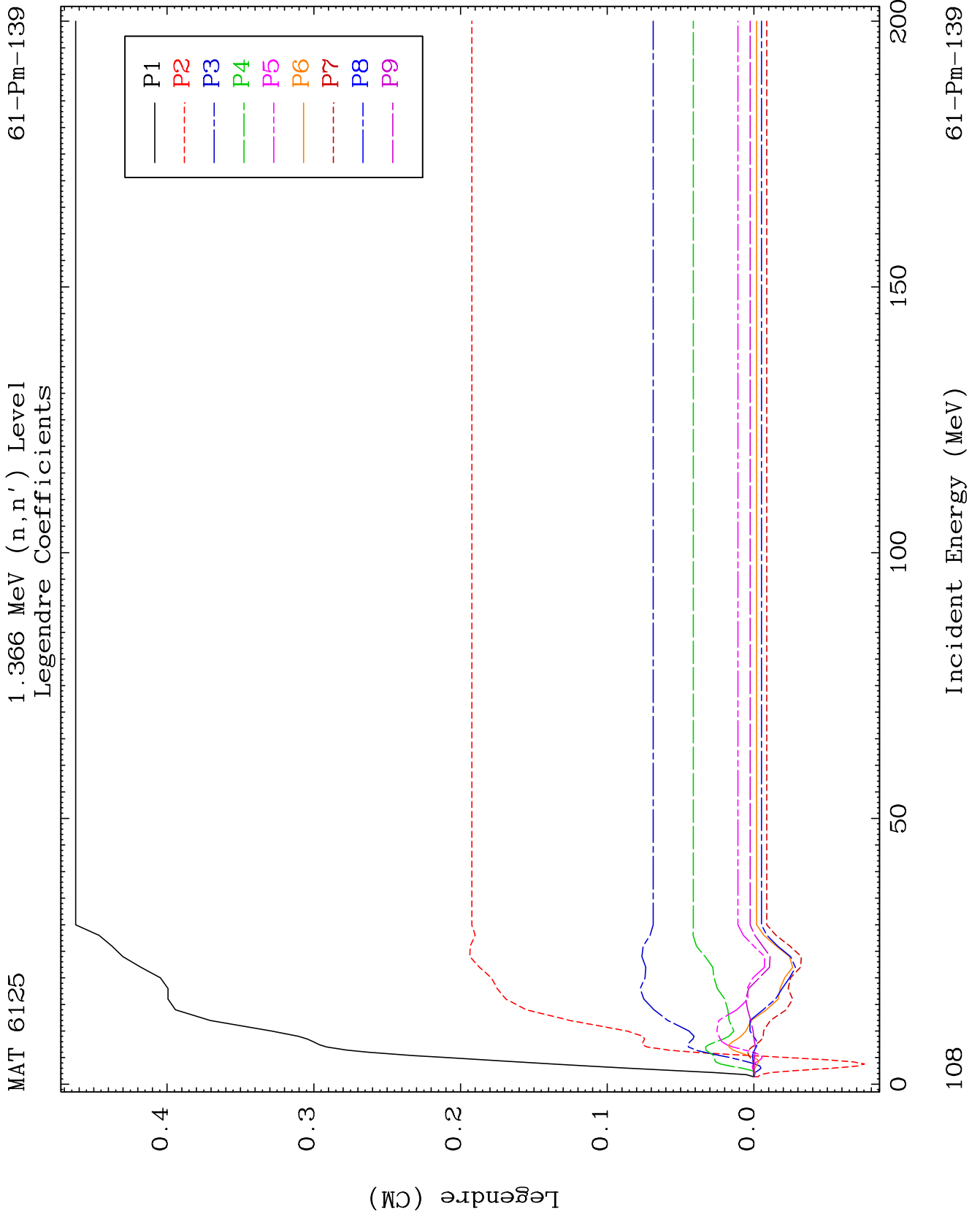


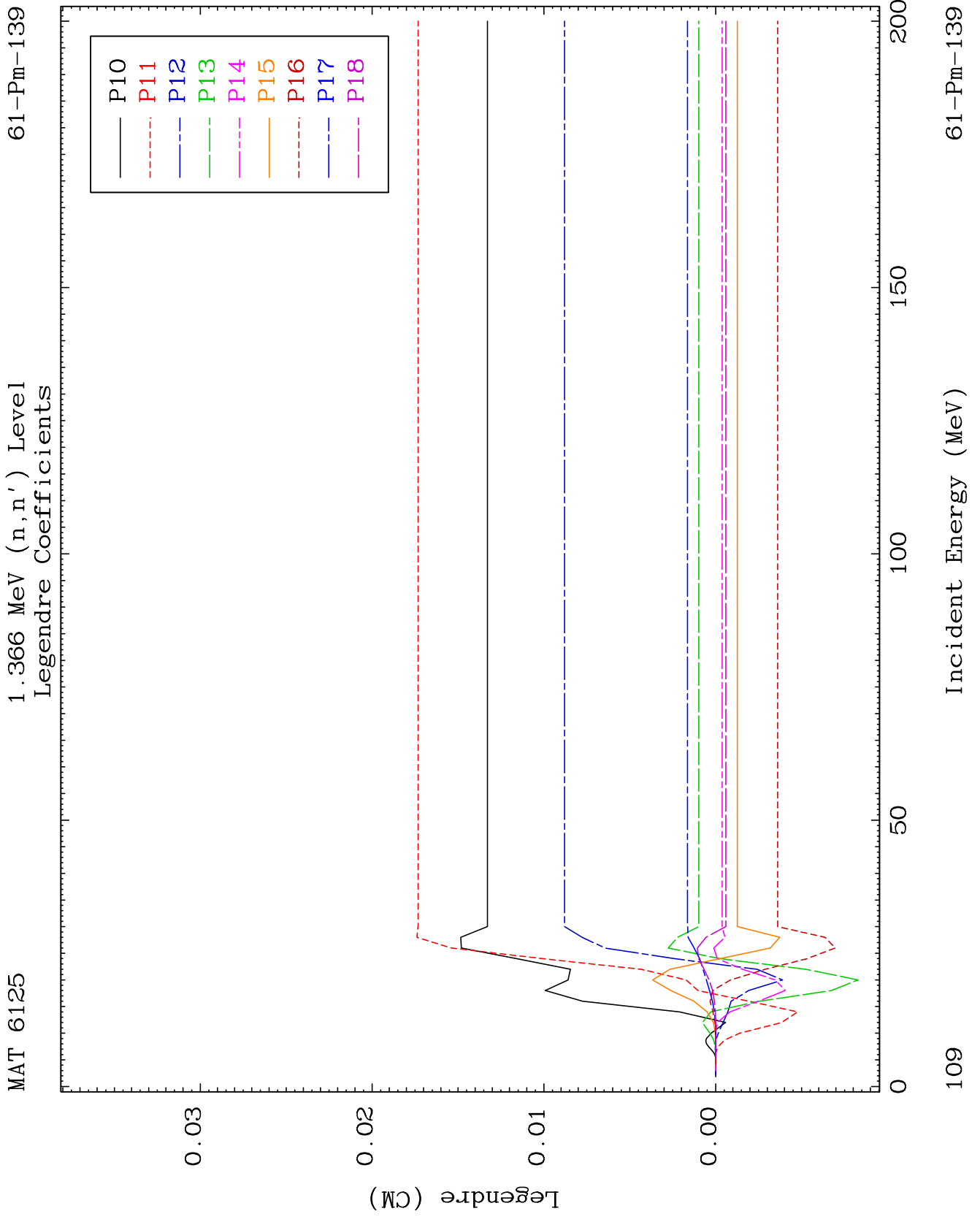


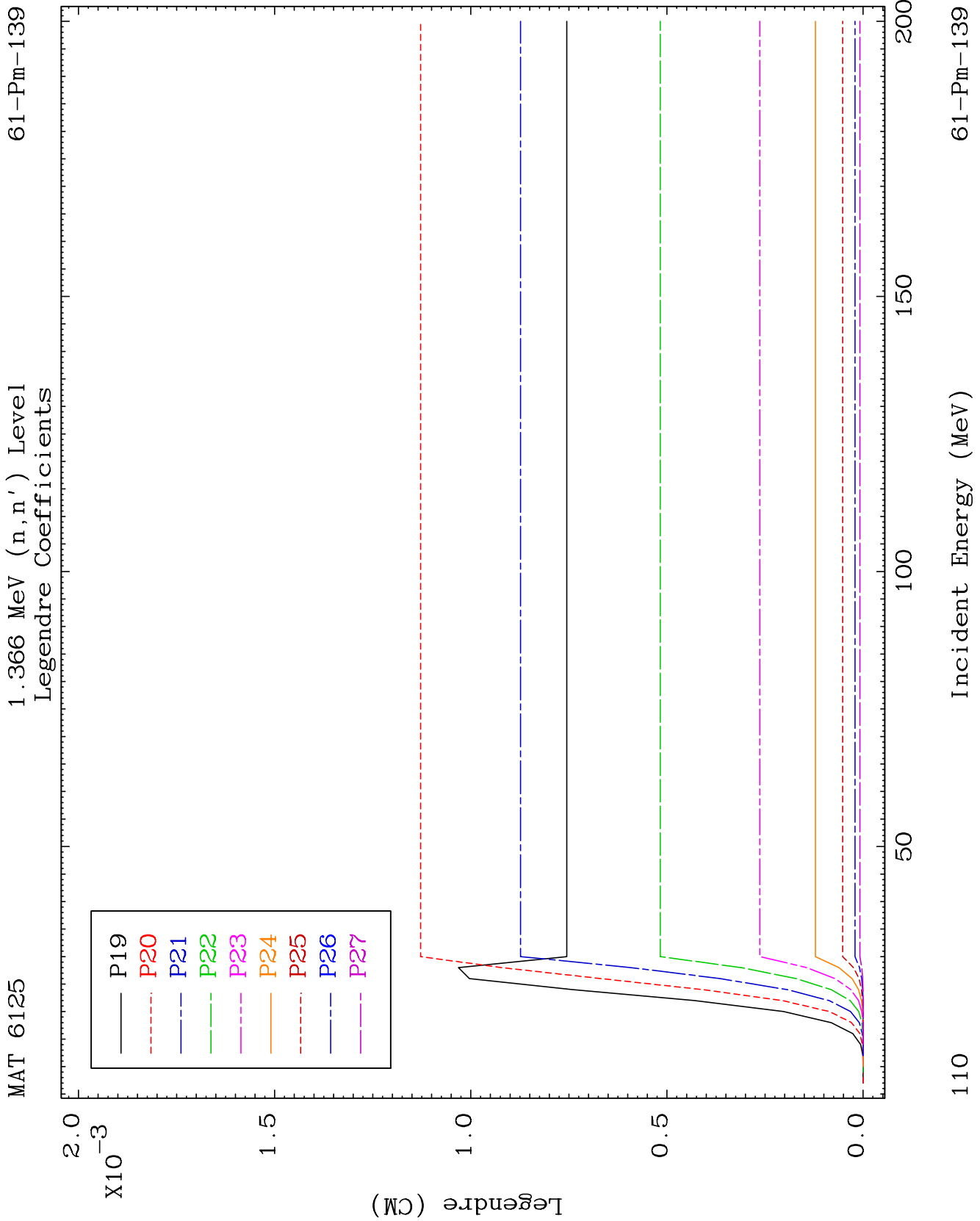


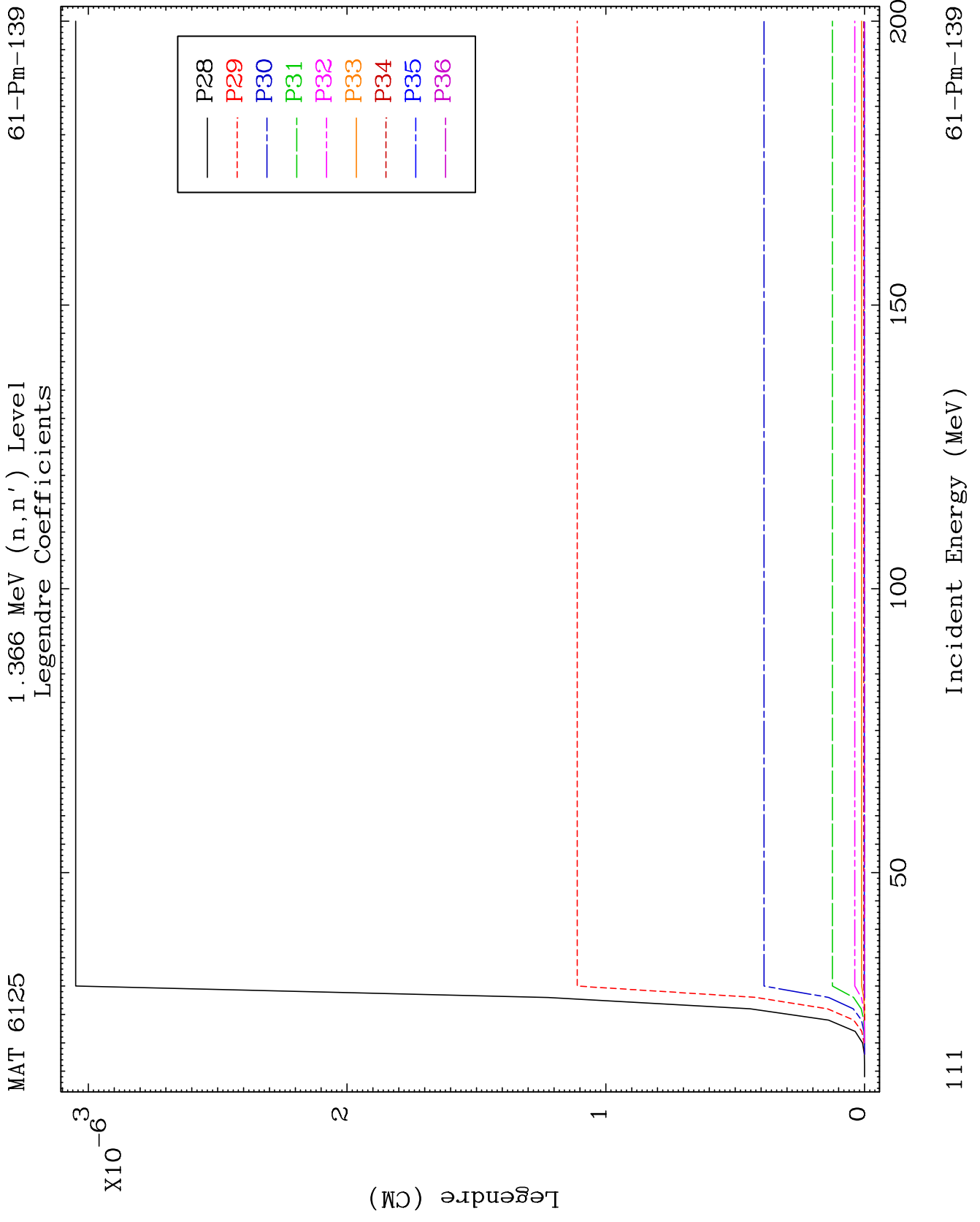


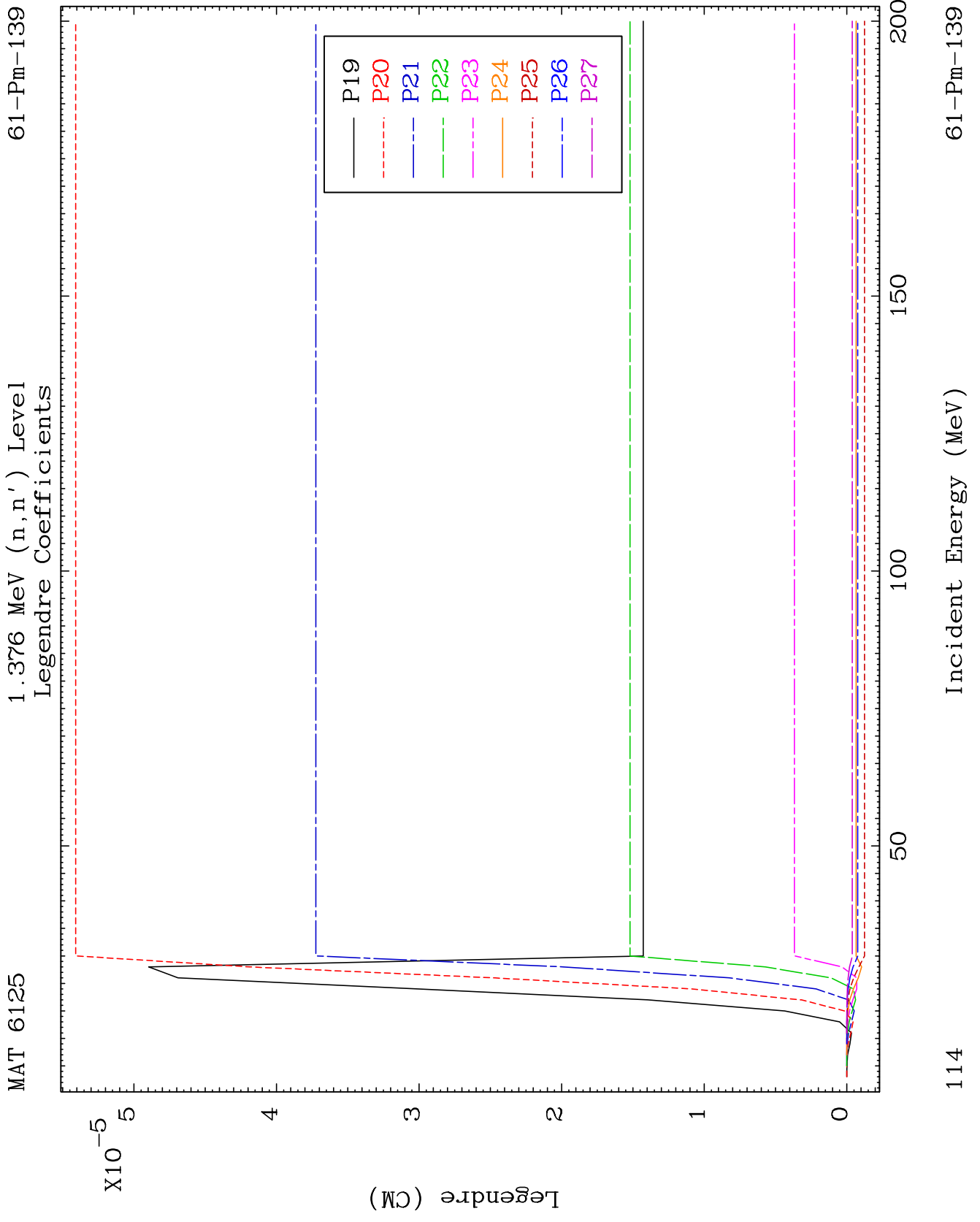


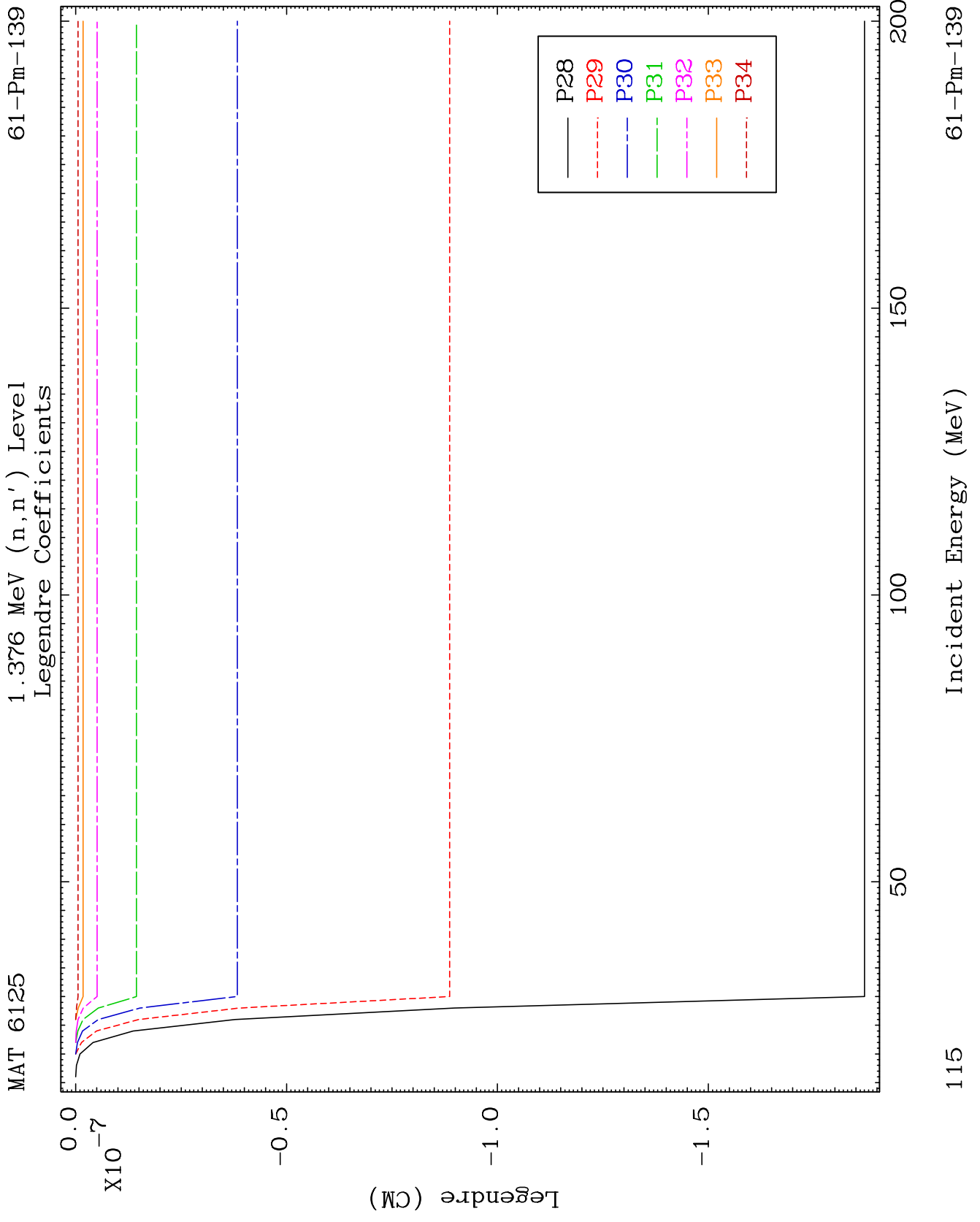


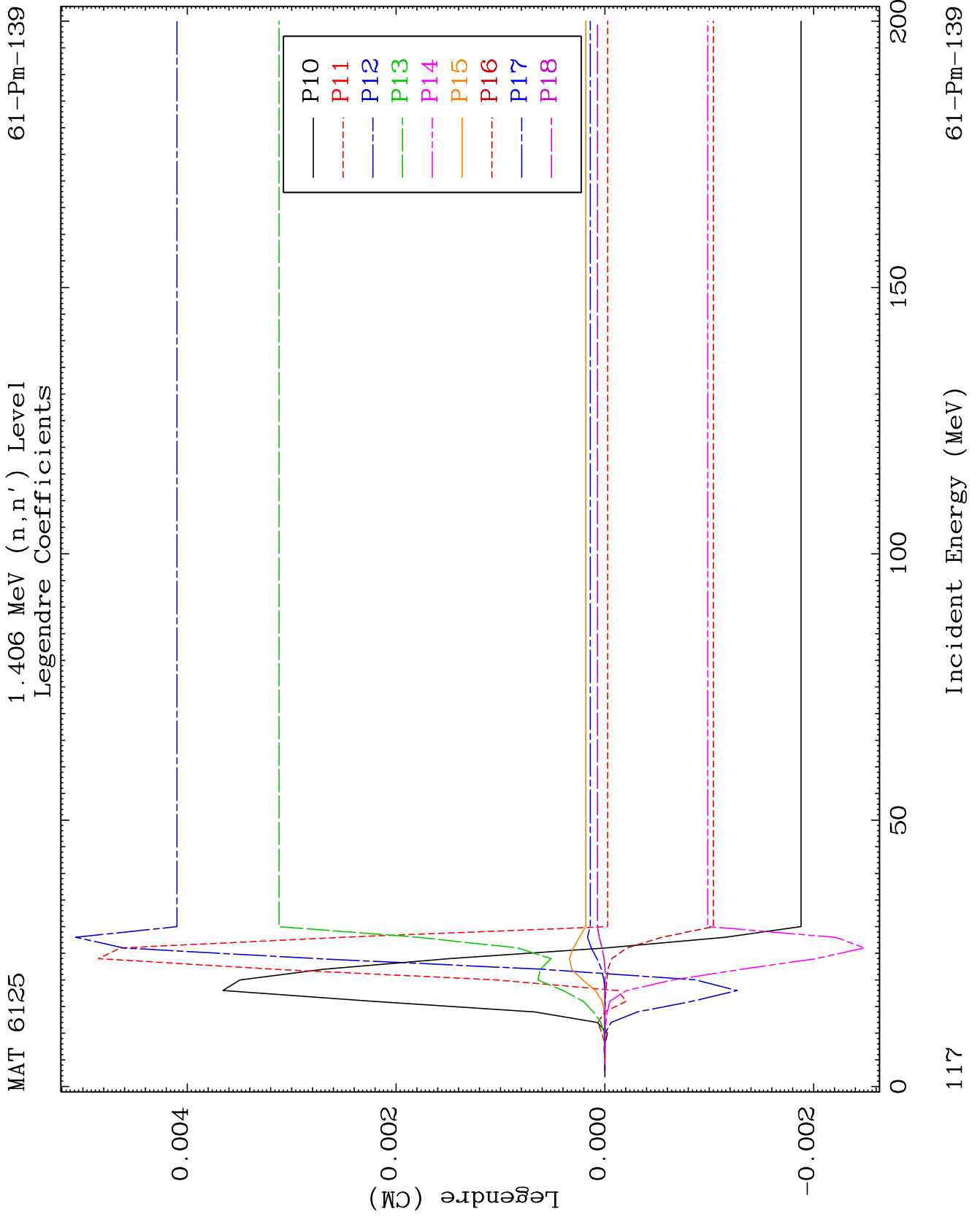








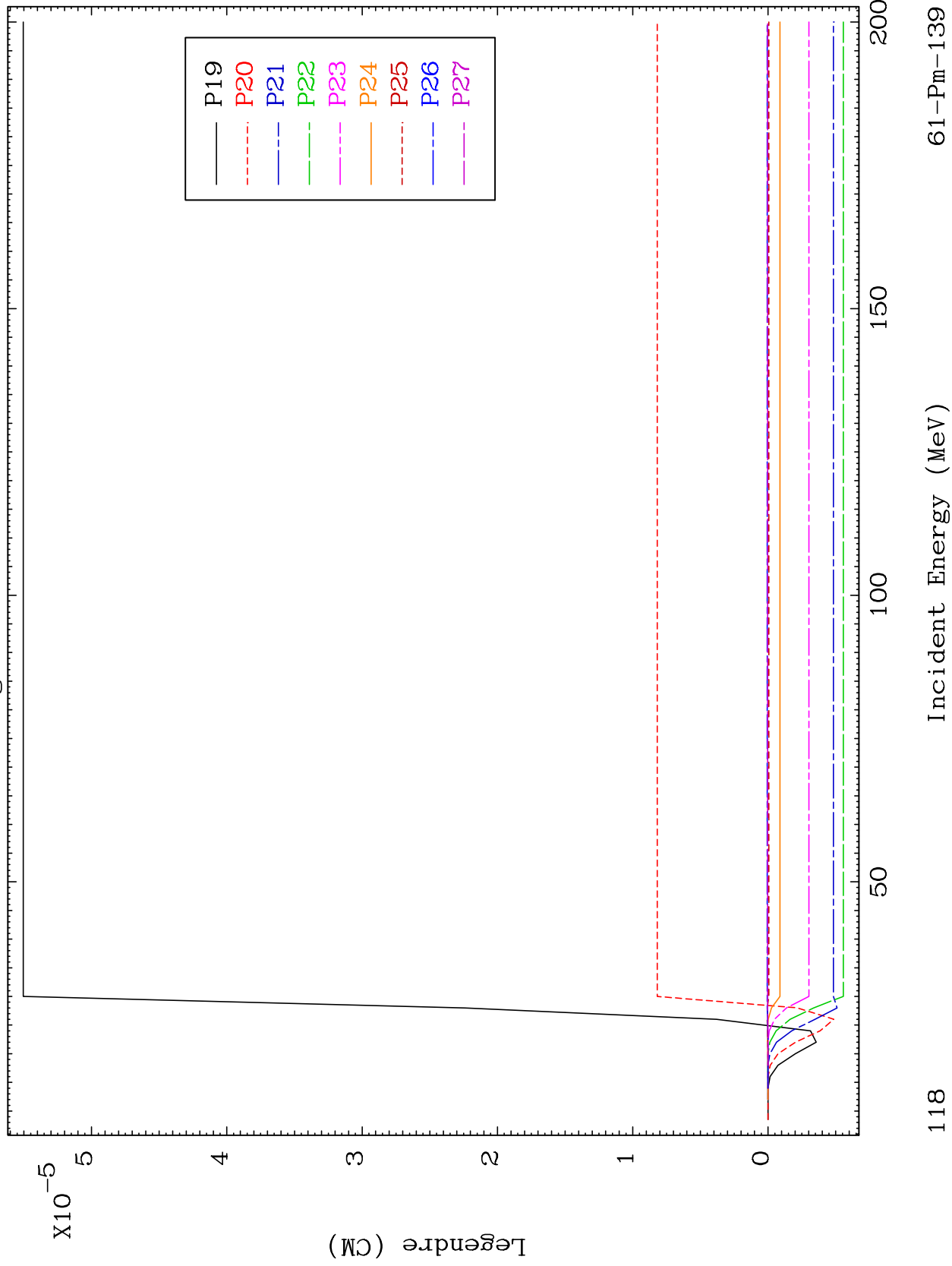




MAT 6125

1.406 MeV (n,n') Level
Legendre Coefficients

61-Pm-139



118

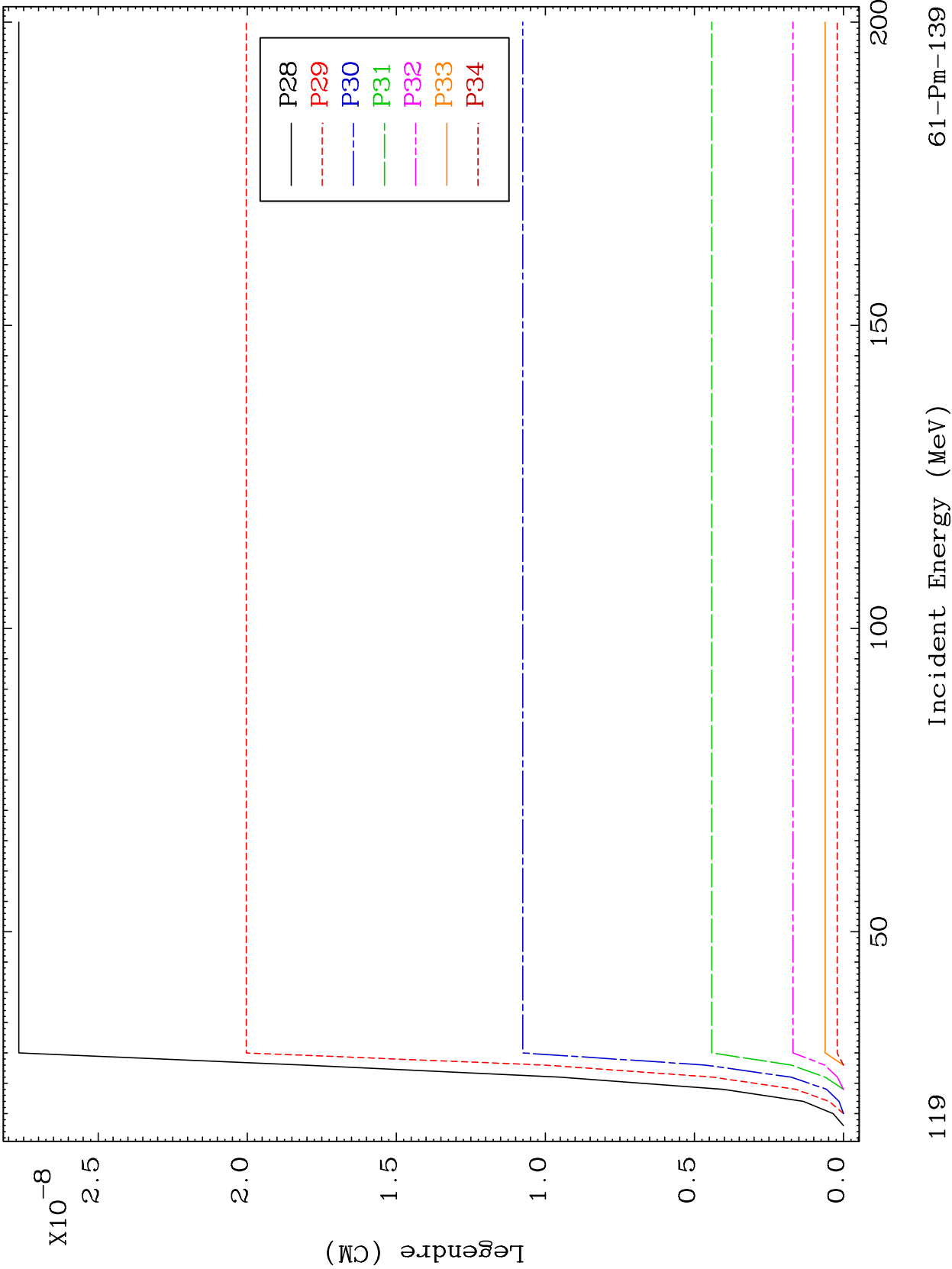
Incident Energy (MeV)

61-Pm-139

MAT 6125

1.406 MeV (n,n') Level
Legendre Coefficients

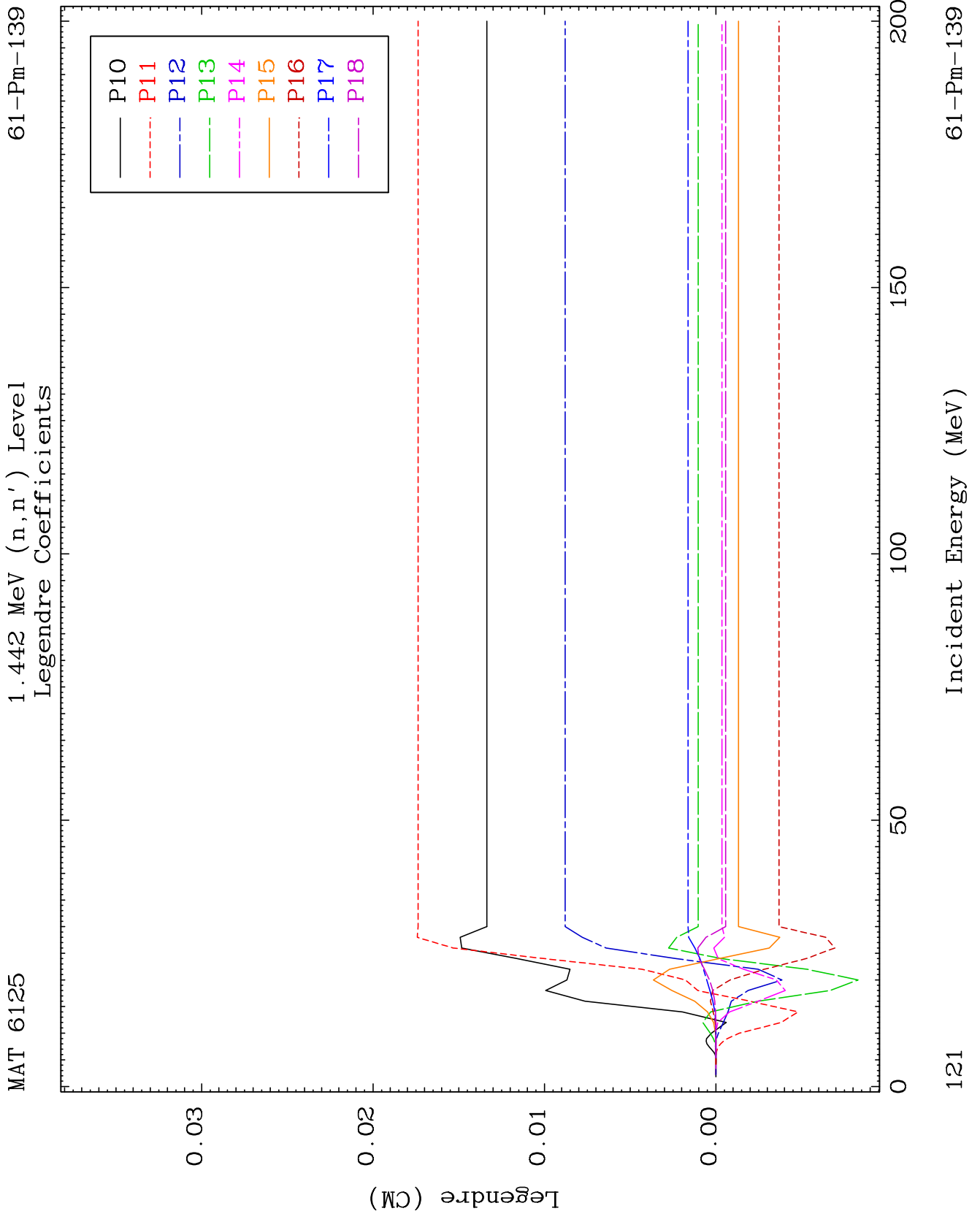
61-Pm-139



119

Incident Energy (MeV)

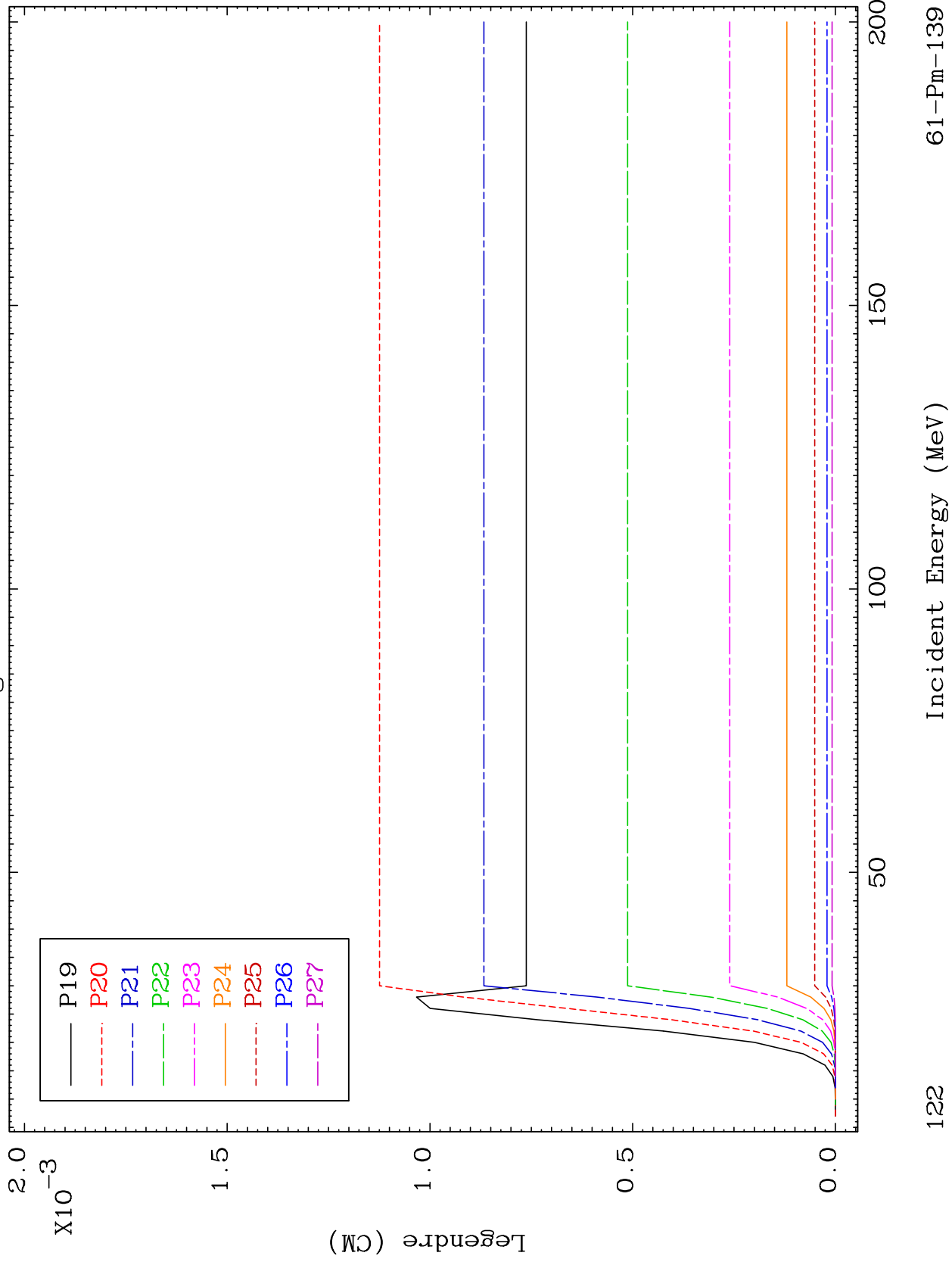
61-Pm-139



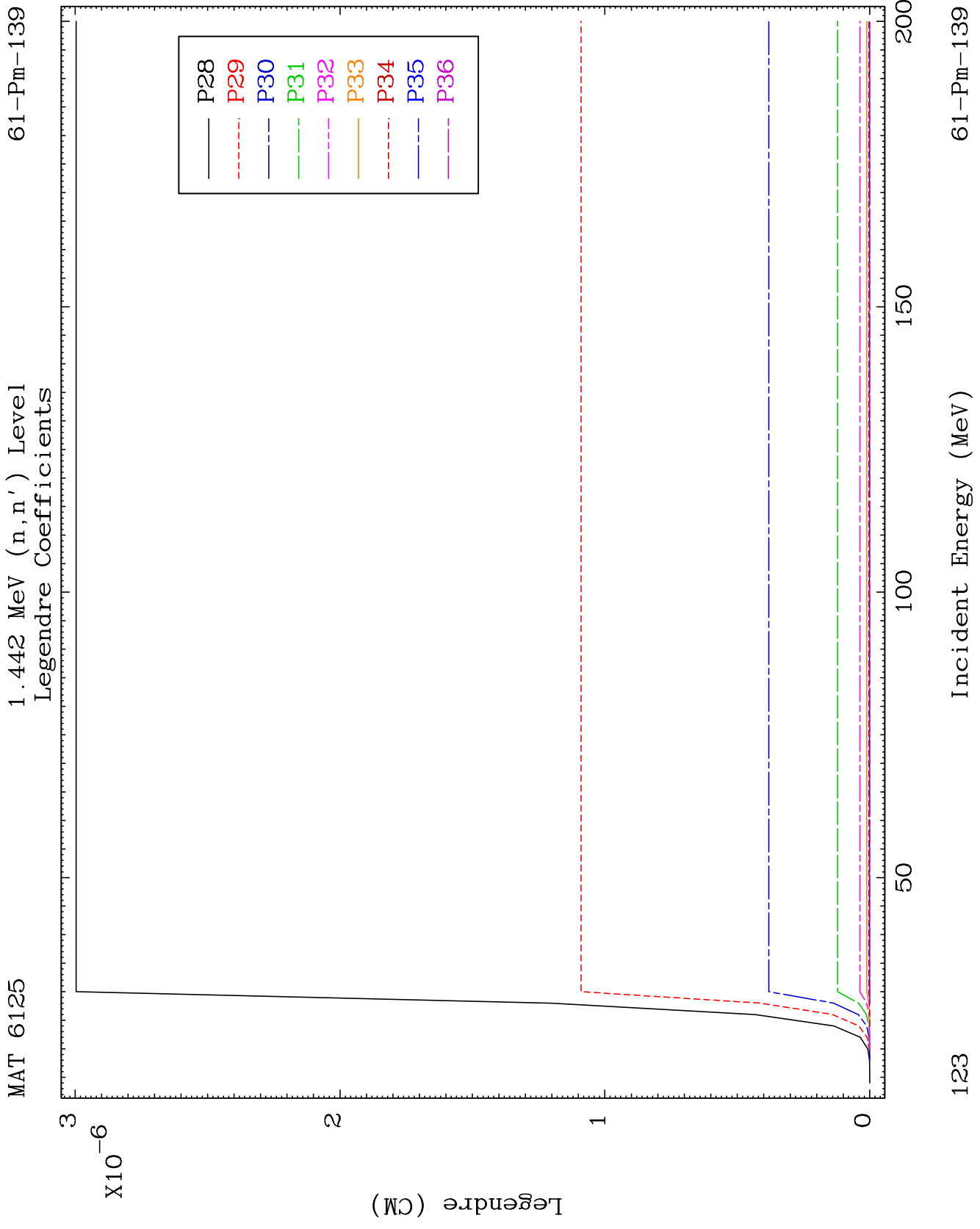
MAT 6125

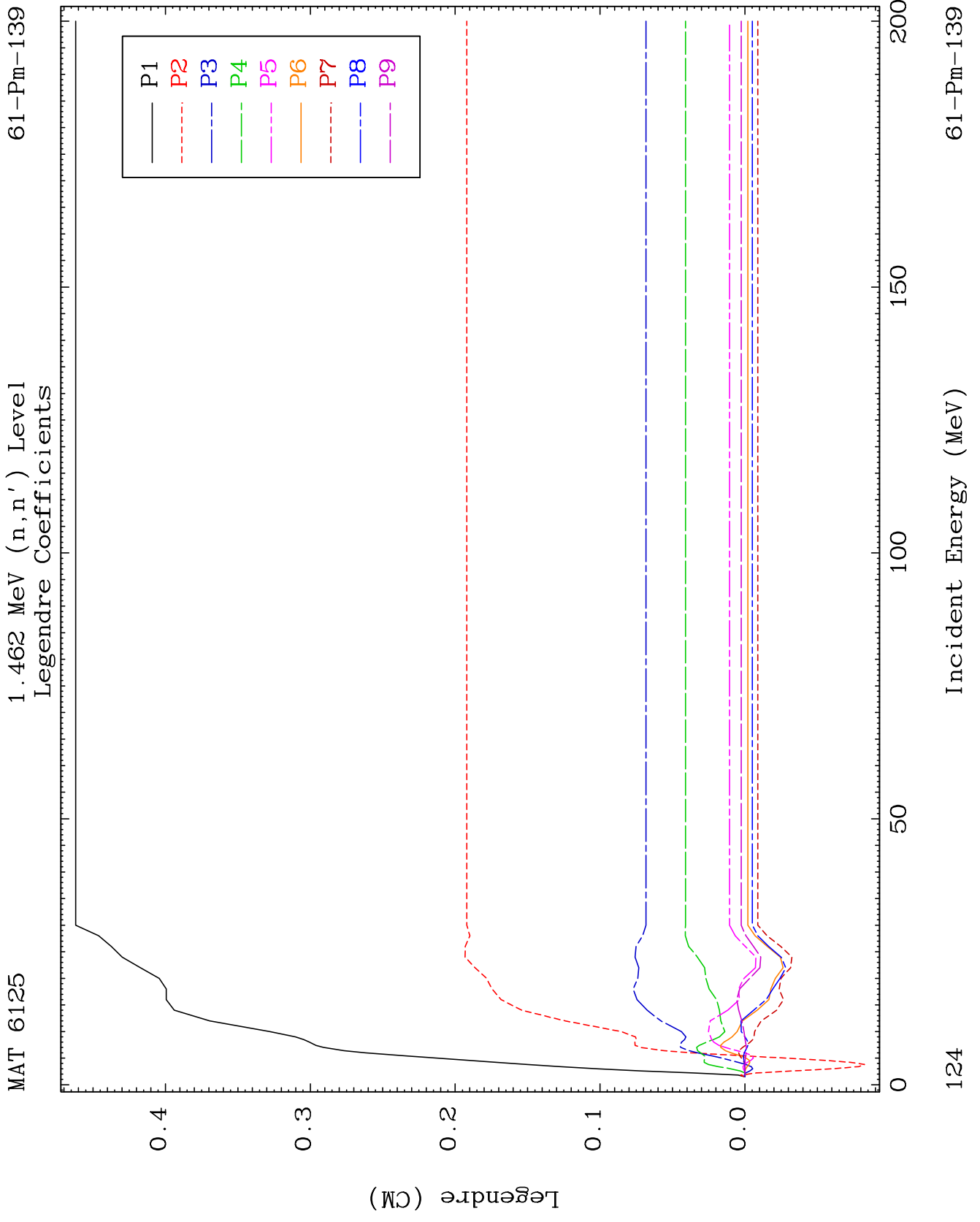
1.442 MeV (n,n') Level
Legendre Coefficients

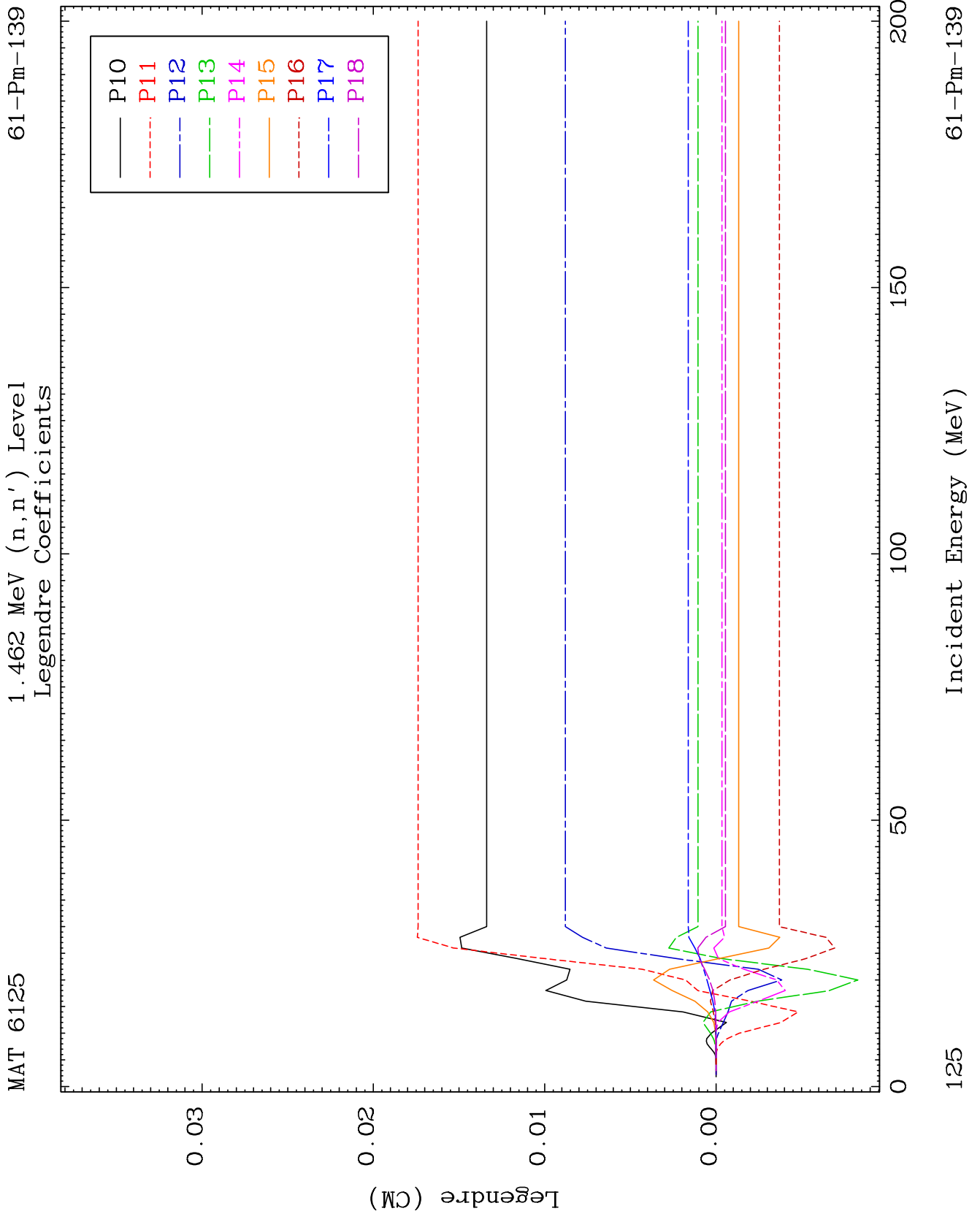
61-Pm-139



122



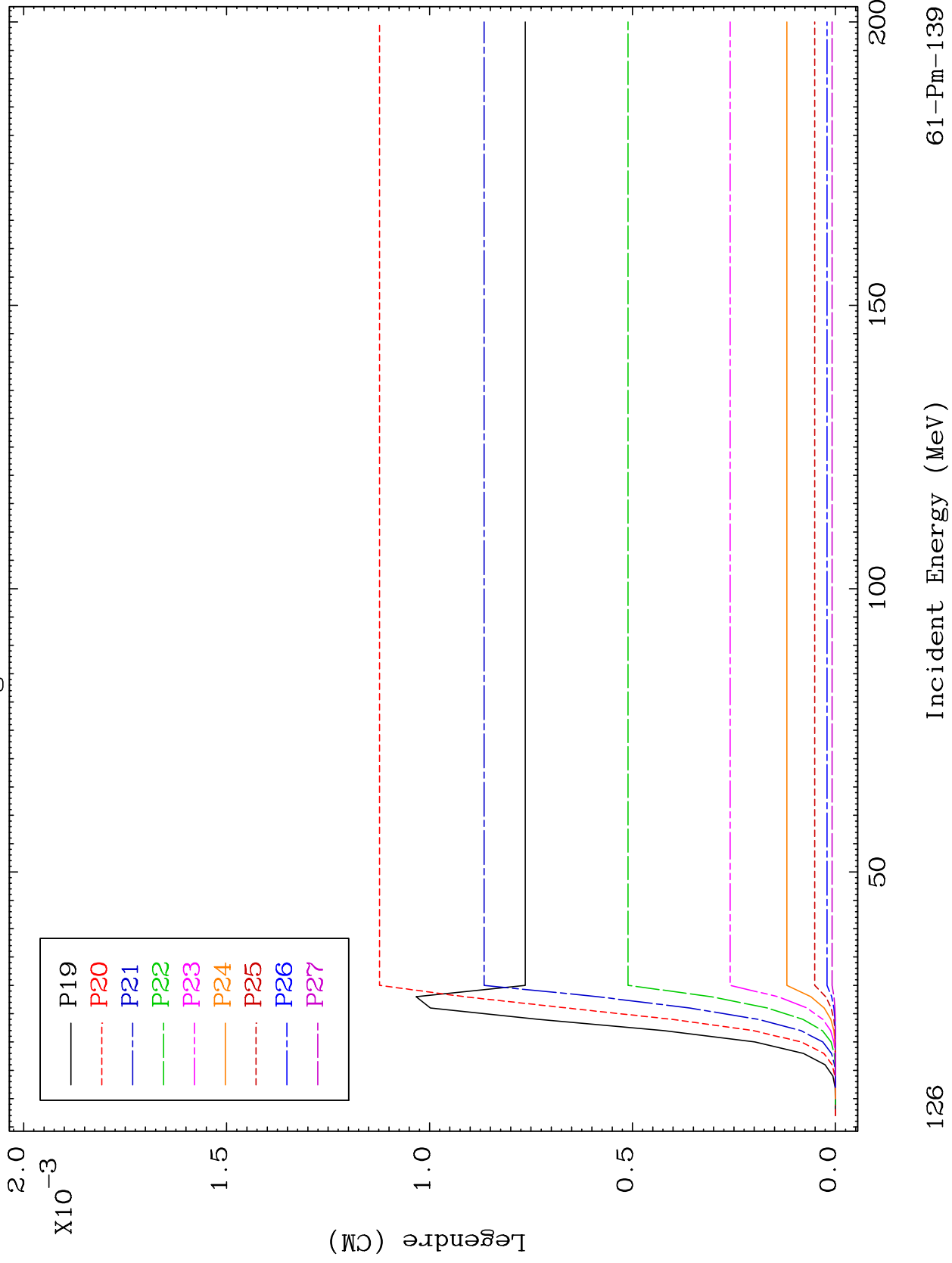




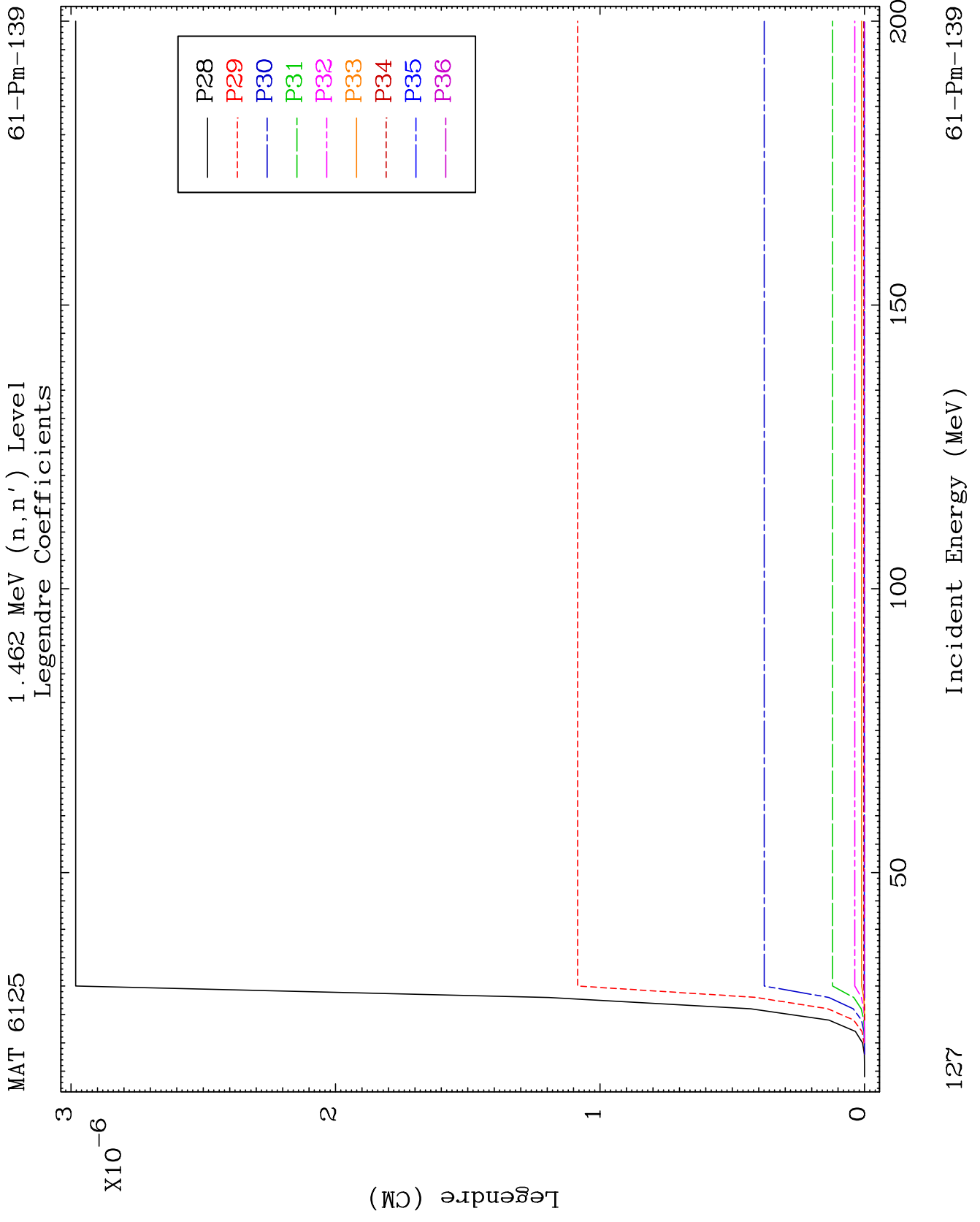
MAT 6125

1.462 MeV (n,n') Level
Legendre Coefficients

61-Pm-139



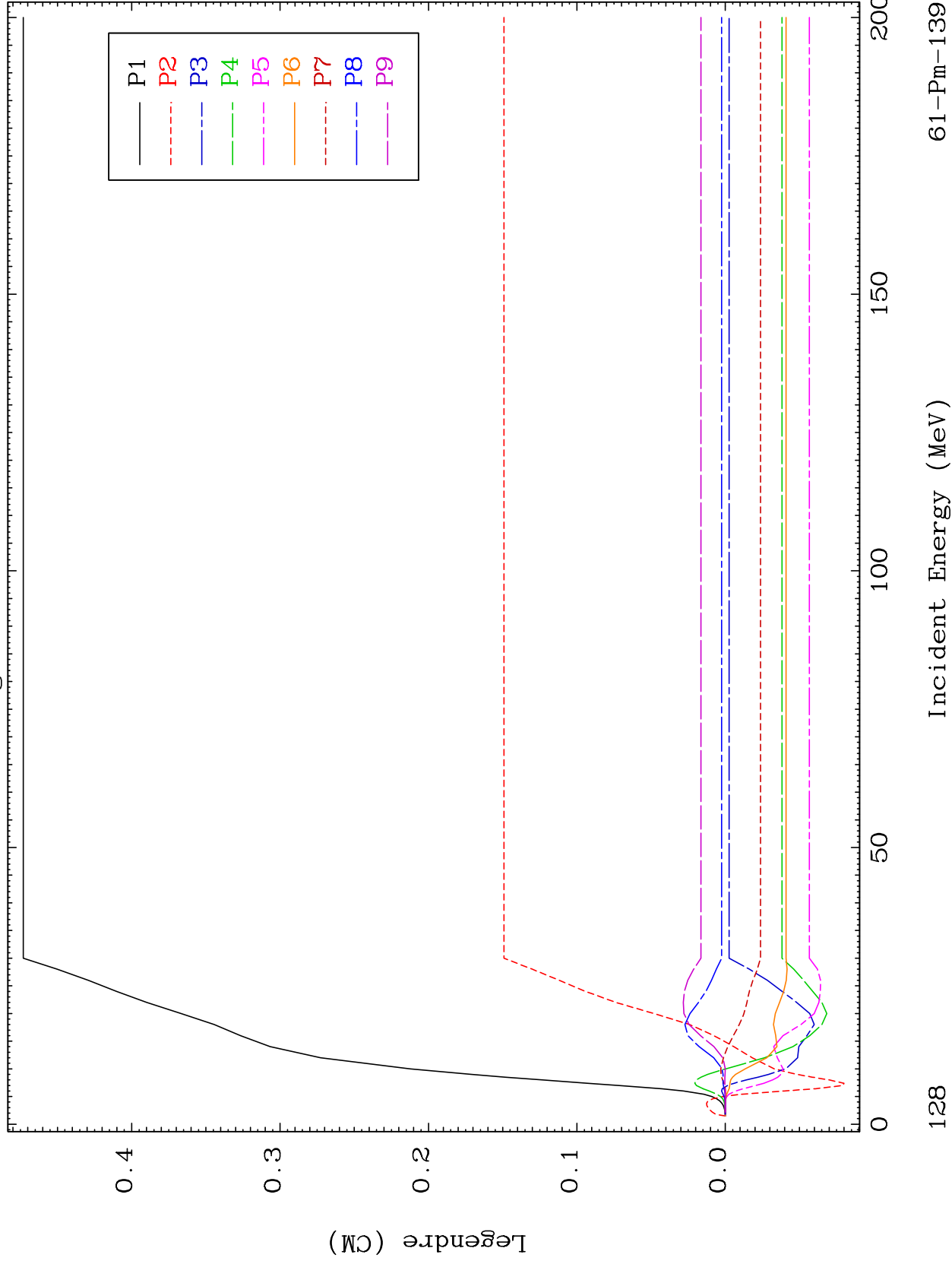
126



MAT 6125

1.463 MeV (n,n') Level
Legendre Coefficients

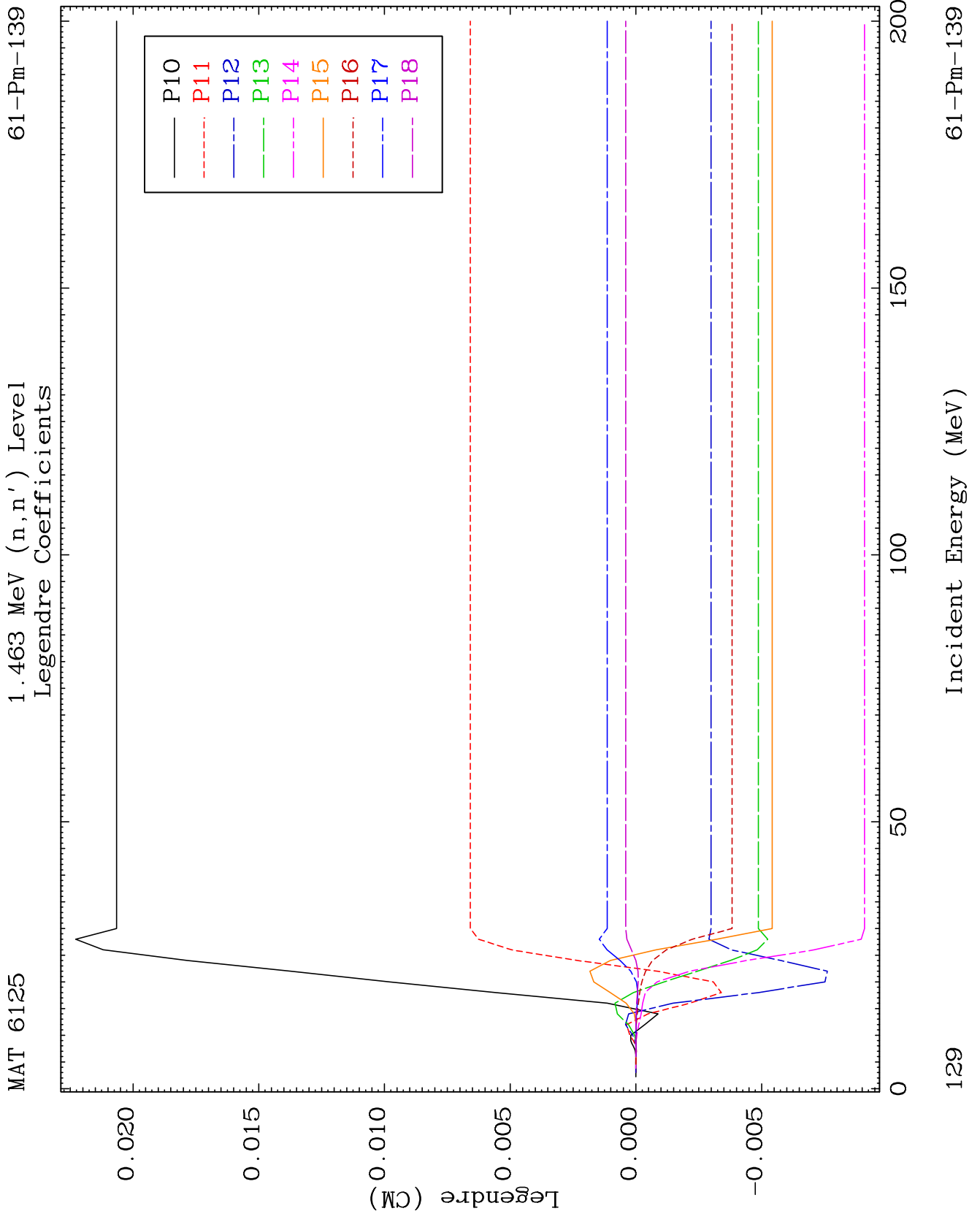
61-Pm-139



61-Pm-139

Incident Energy (MeV)

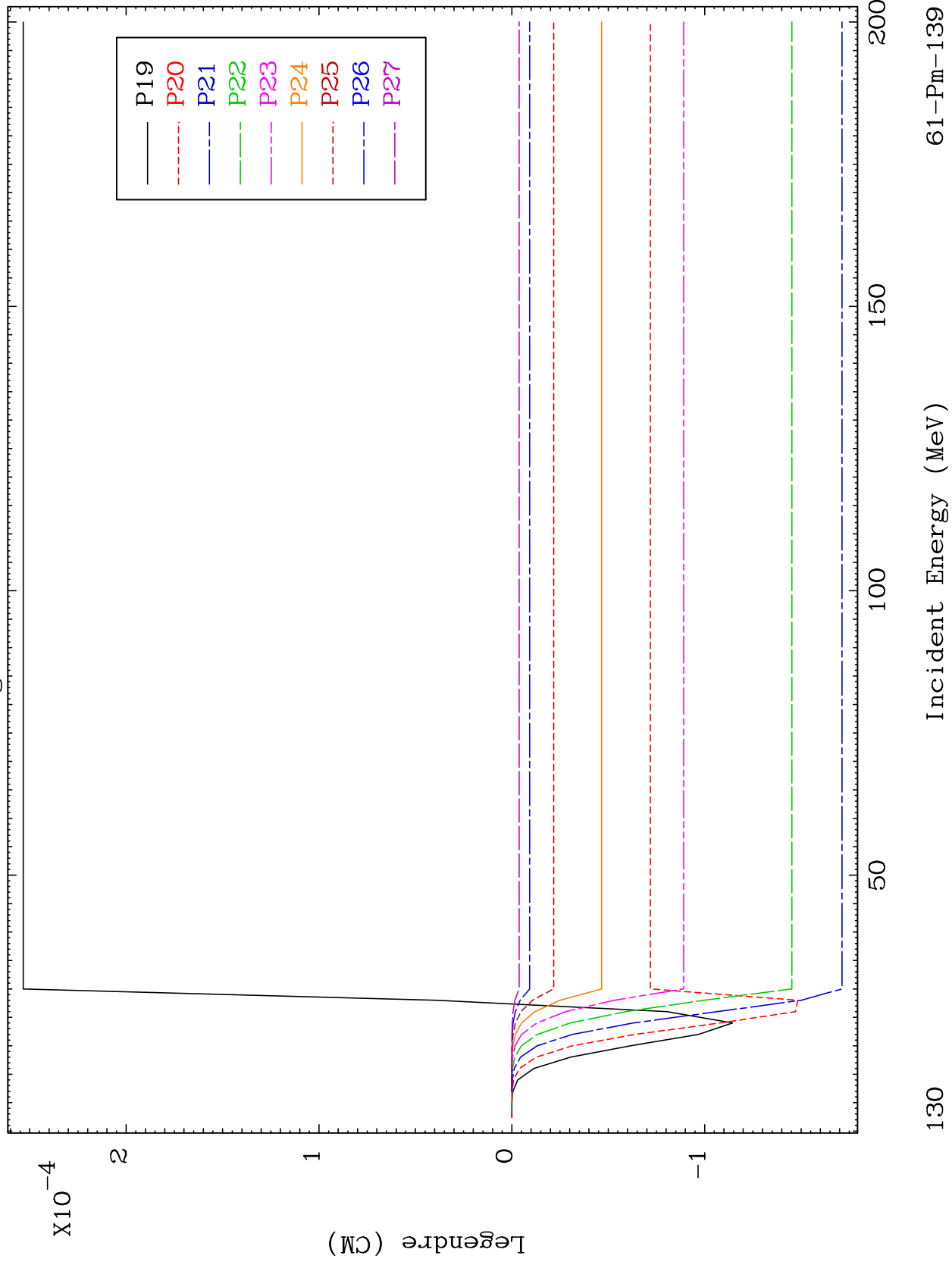
128



MAT 6125

1.463 MeV (n,n') Level
Legendre Coefficients

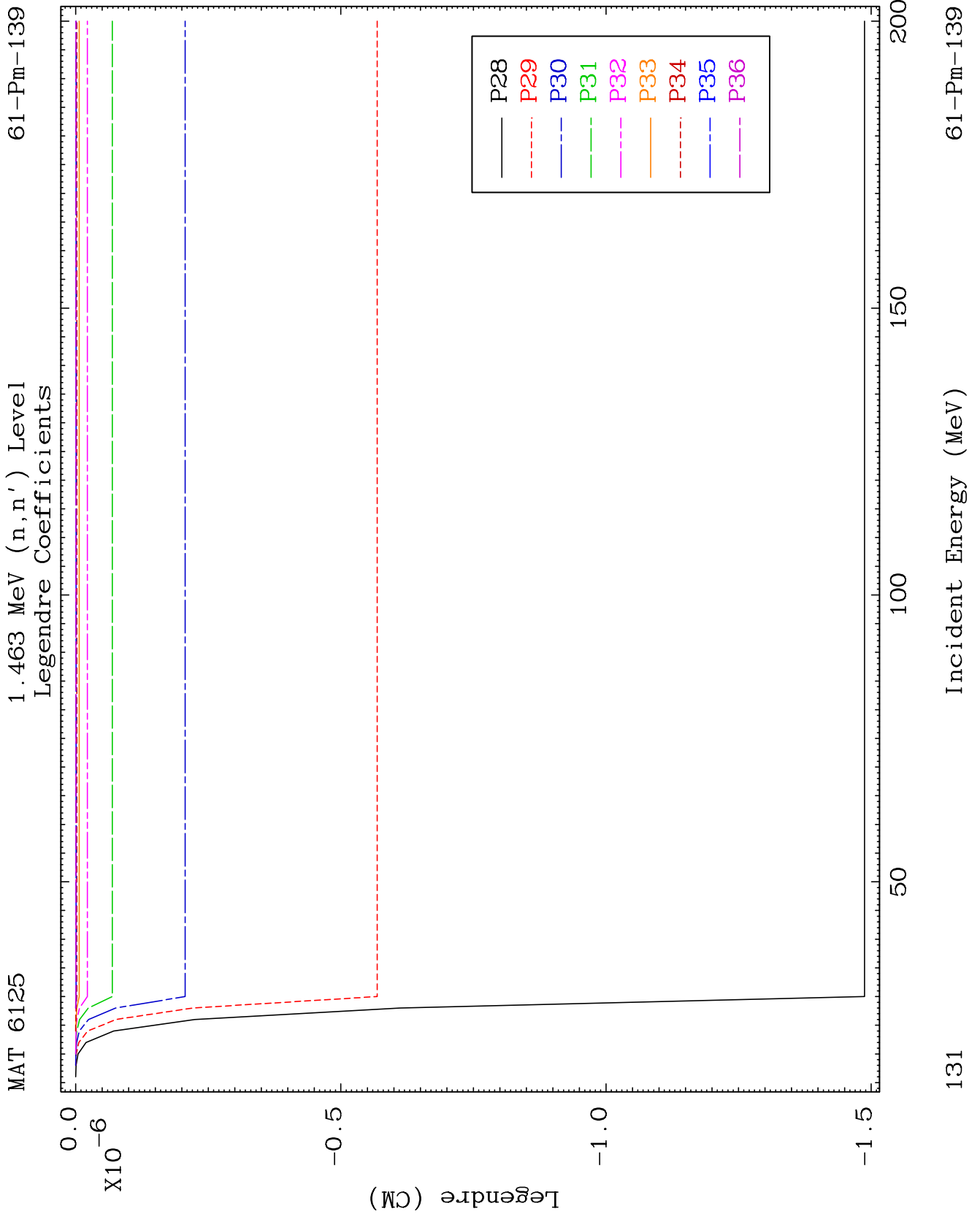
61-Pm-139

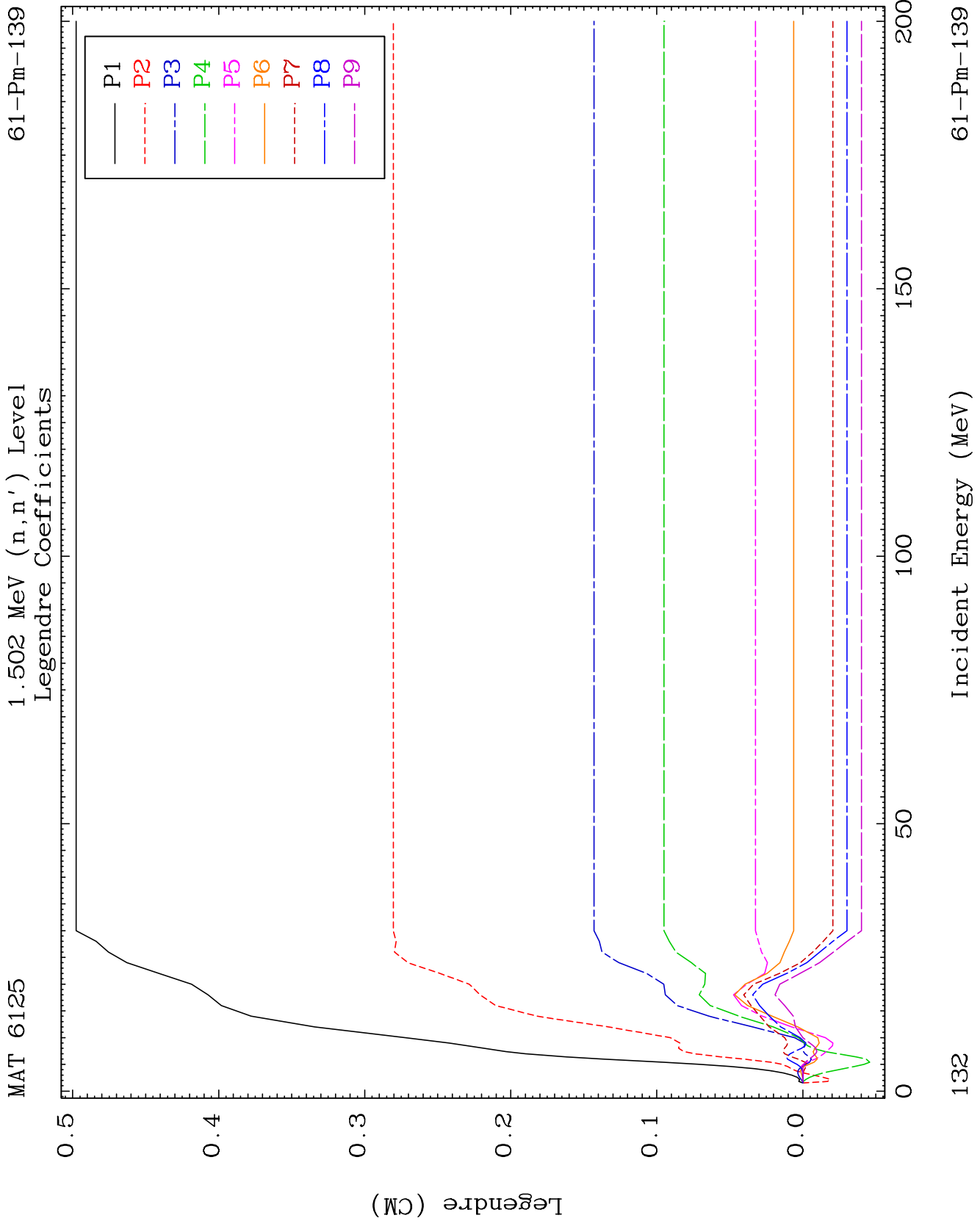


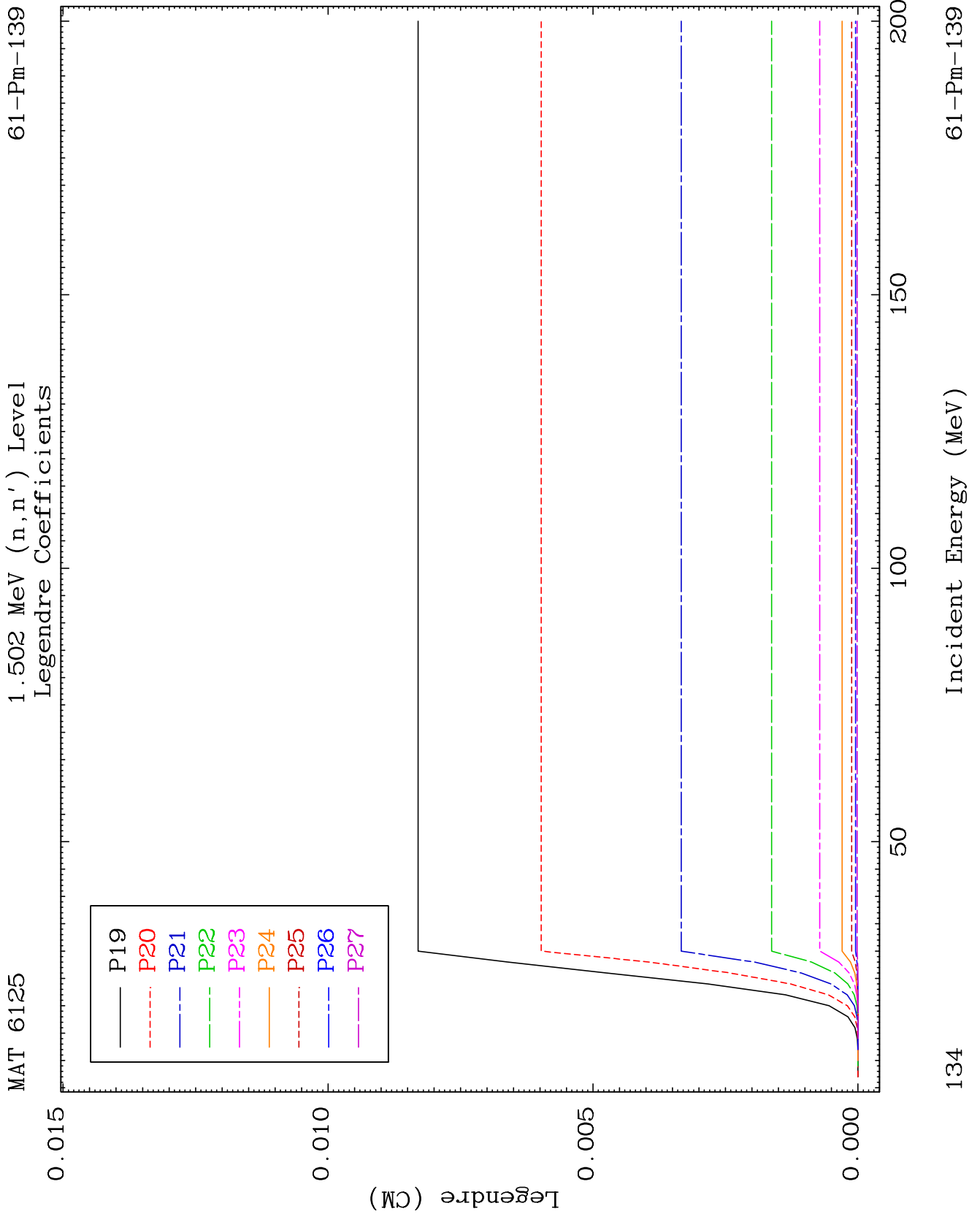
130

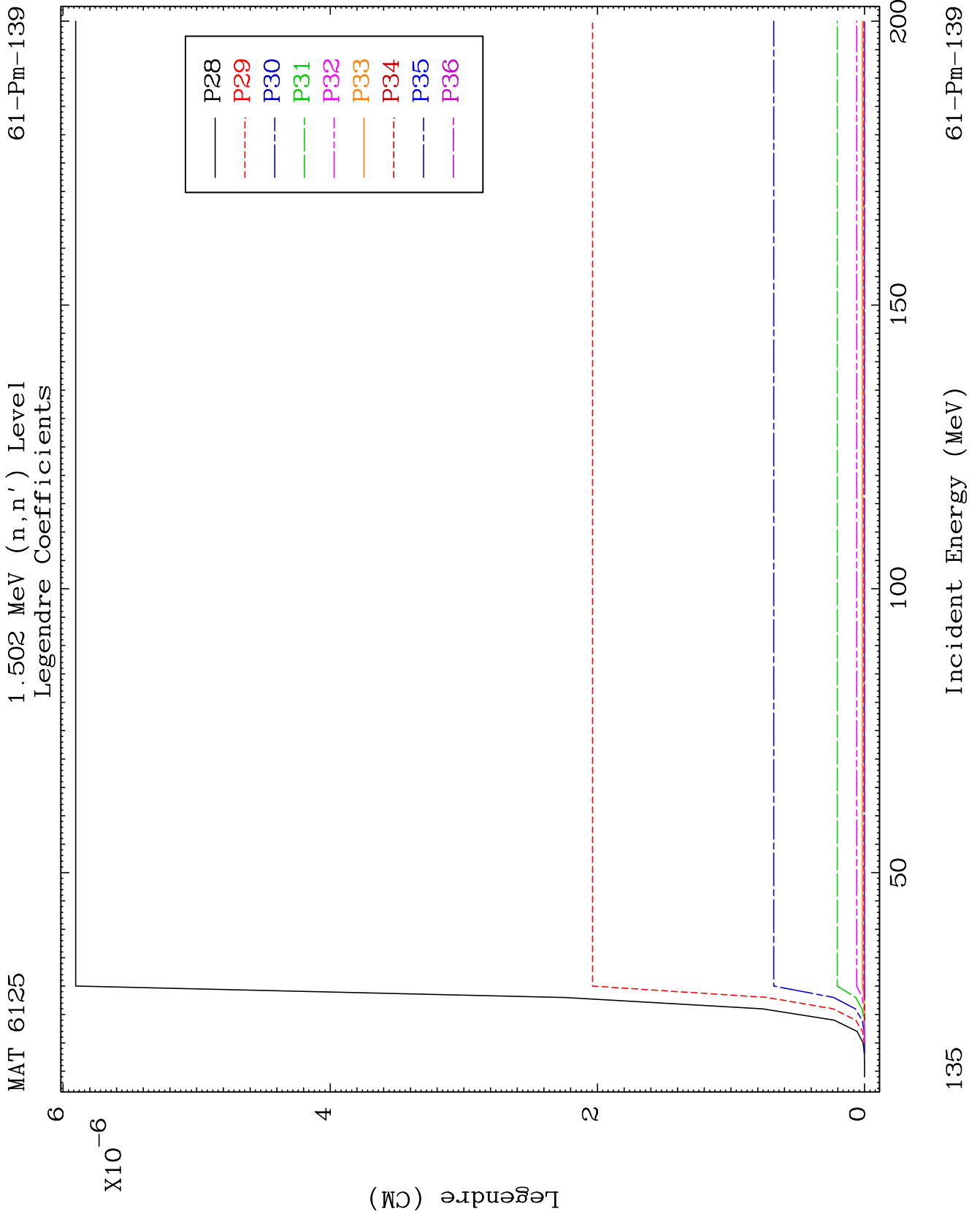
Incident Energy (MeV)

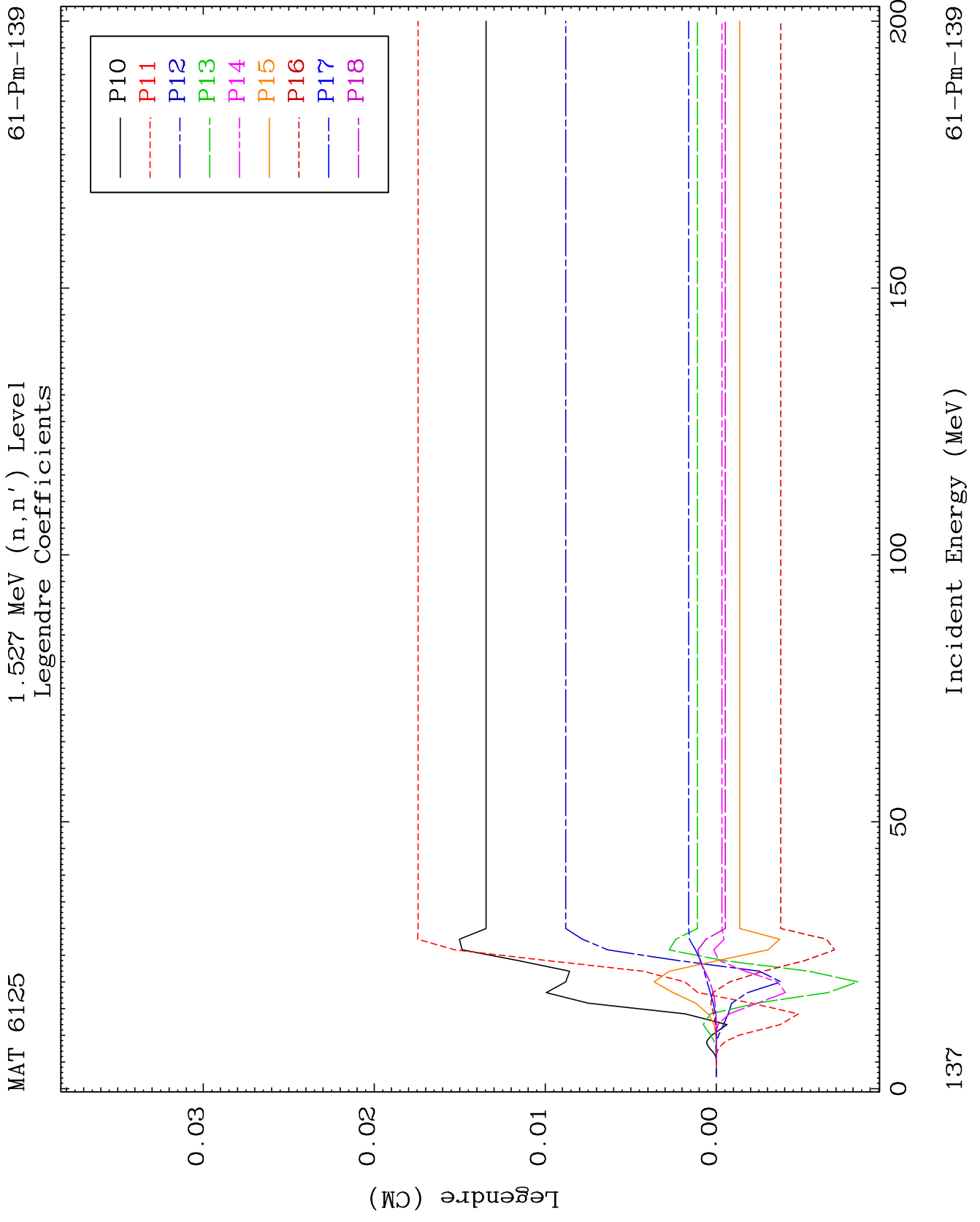
61-Pm-139

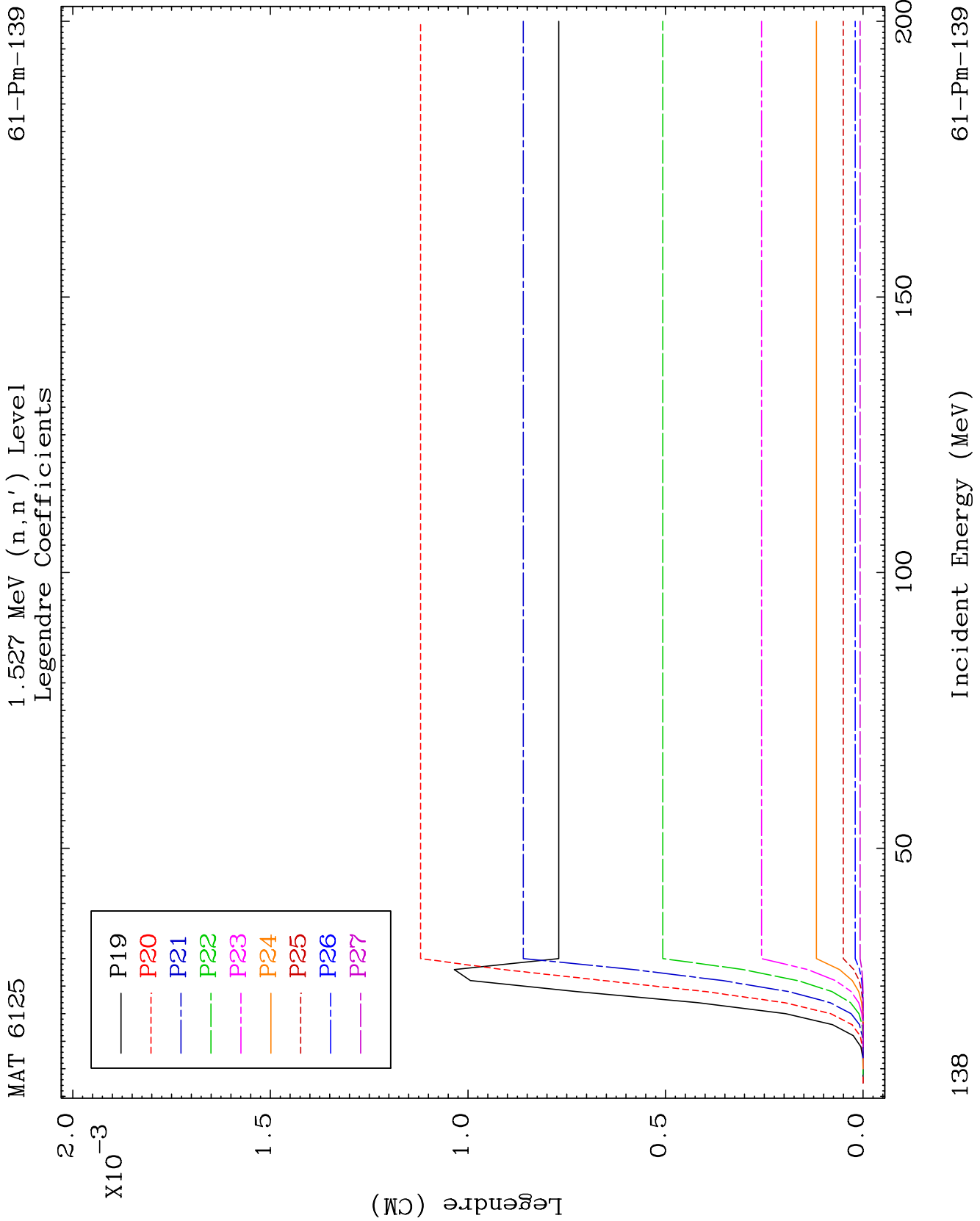


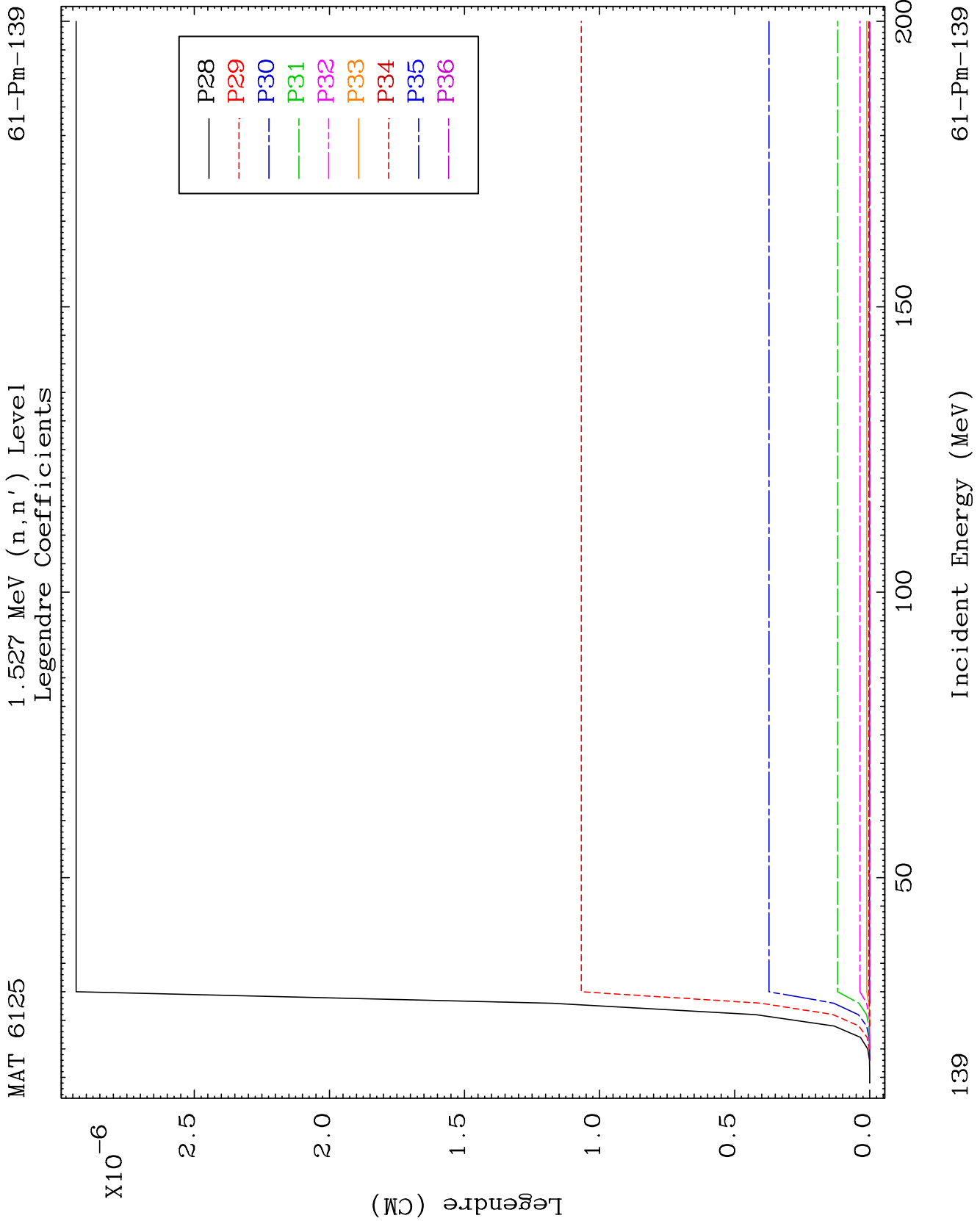








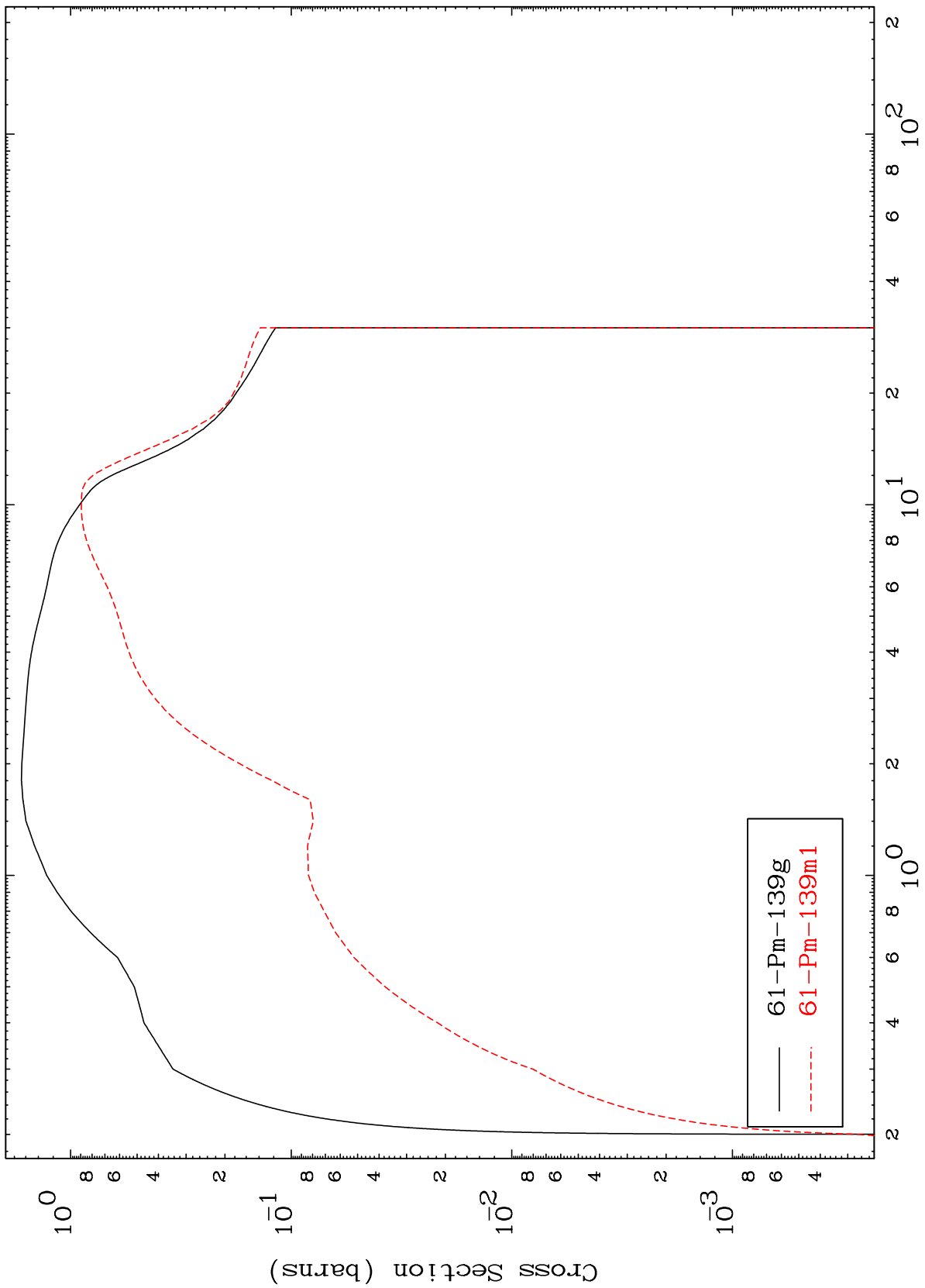




MAT 6125

61-Pm-139

Inelastic
Radionuclide Production Cross Section



61-Pm-139

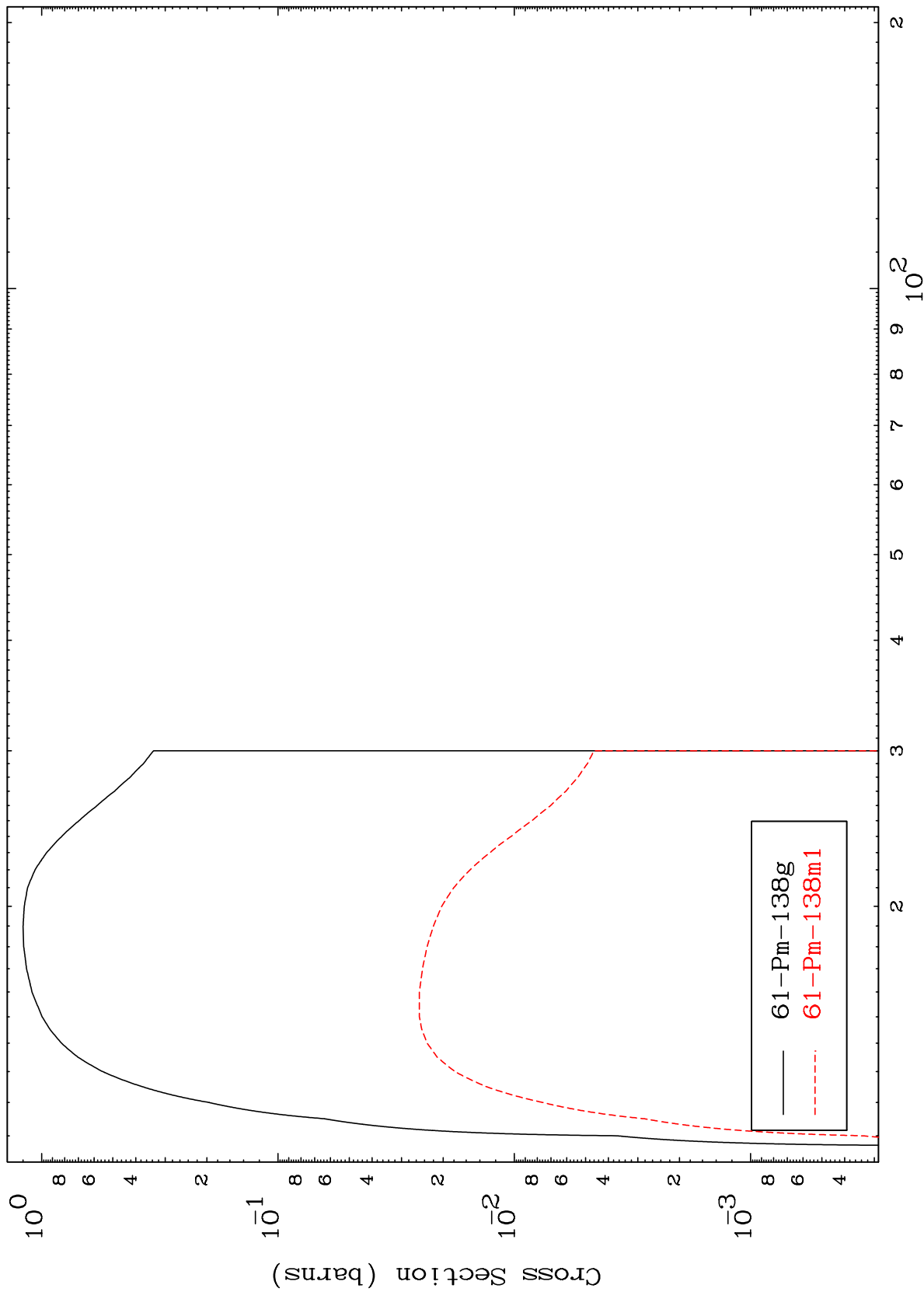
Incident Energy (MeV)

140

MAT 6125

61-Pm-139

Radionuclide Production Cross Section
(n,2n)



61-Pm-139

Incident Energy (MeV)

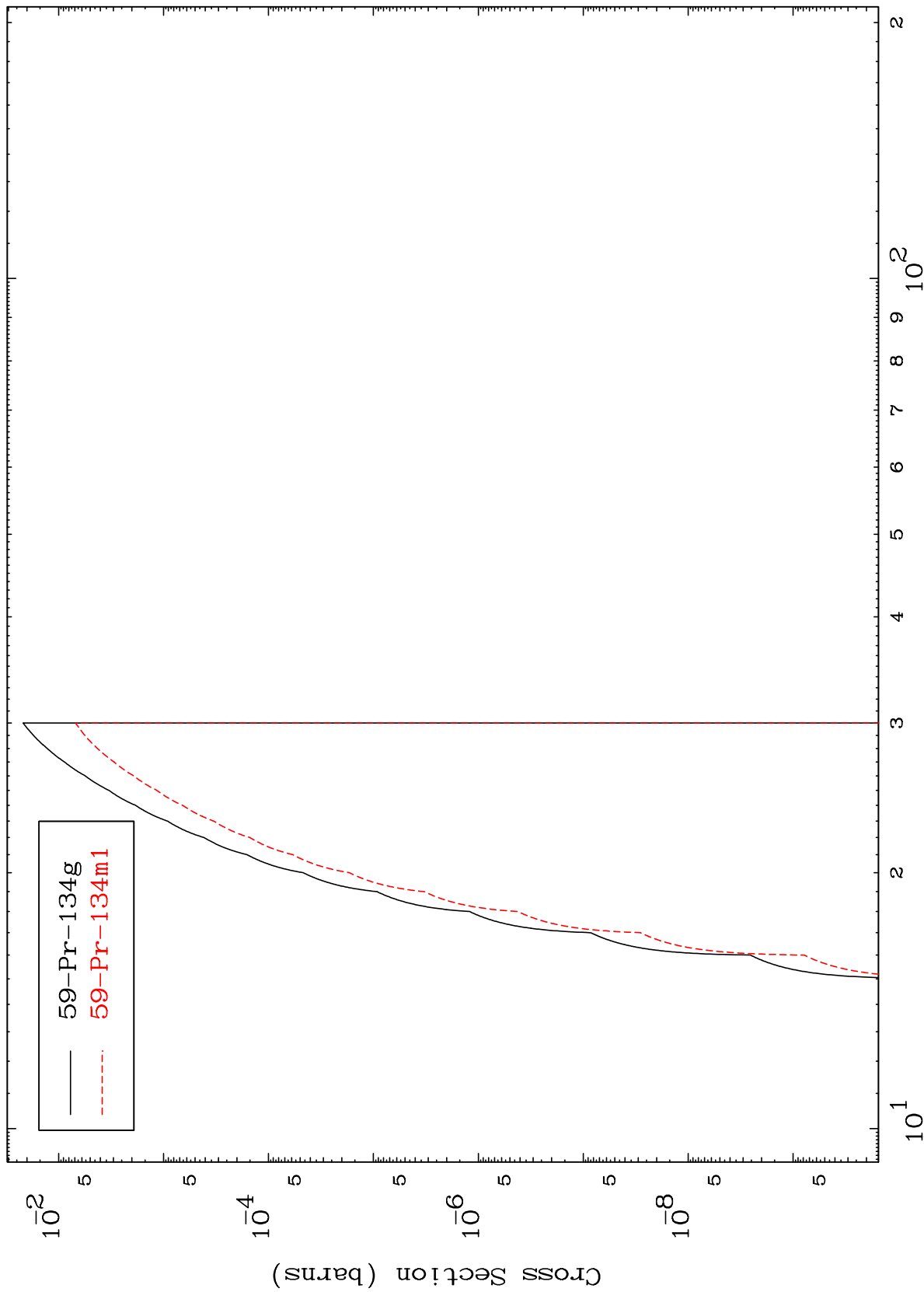
141

MAT 6125

(n,2n) α

61-Pm-139

Radionuclide Production Cross Section



142

Incident Energy (MeV)

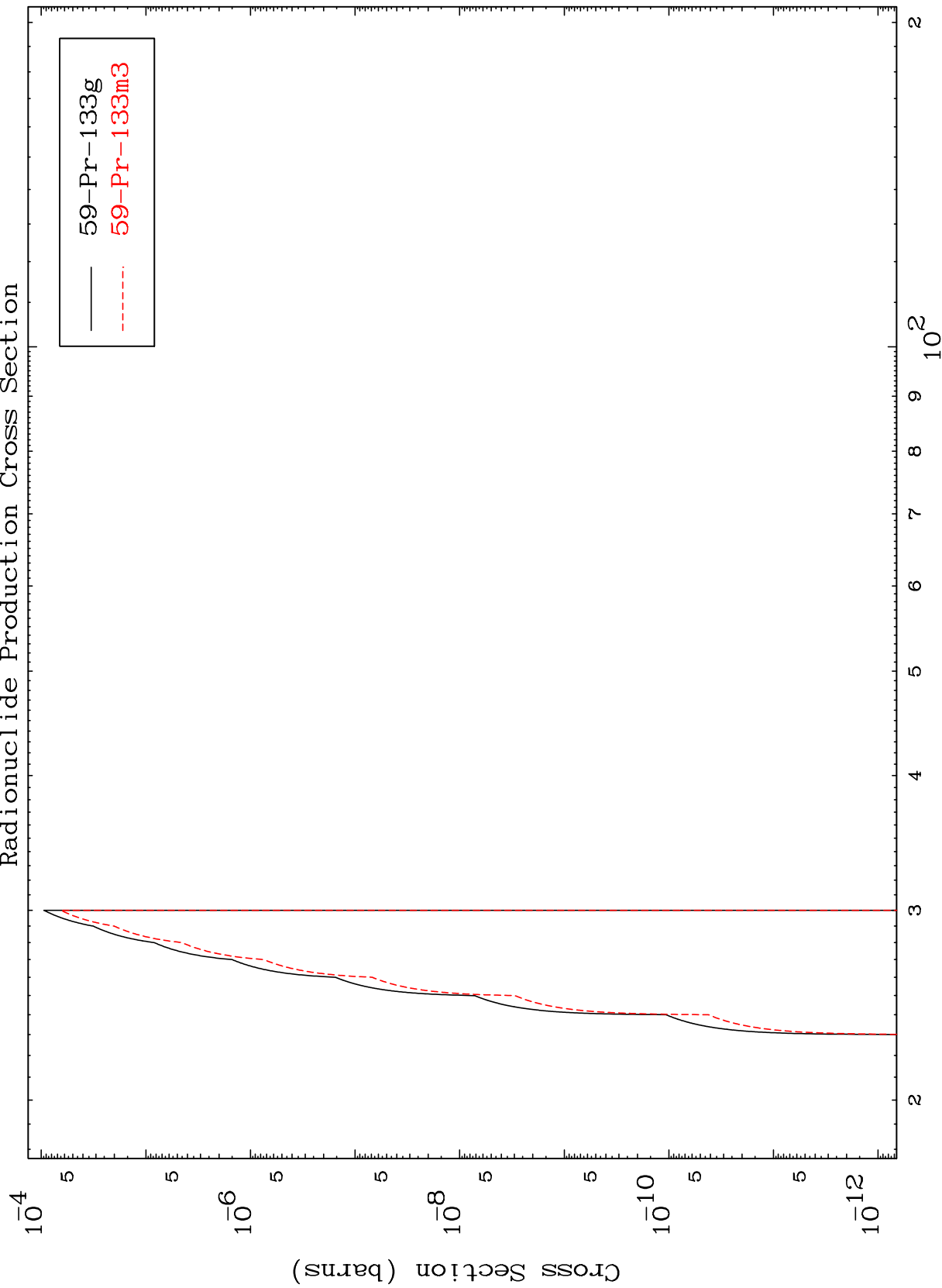
61-Pm-139

MAT 6125

(n,3n) α

61-Pm-139

Radionuclide Production Cross Section

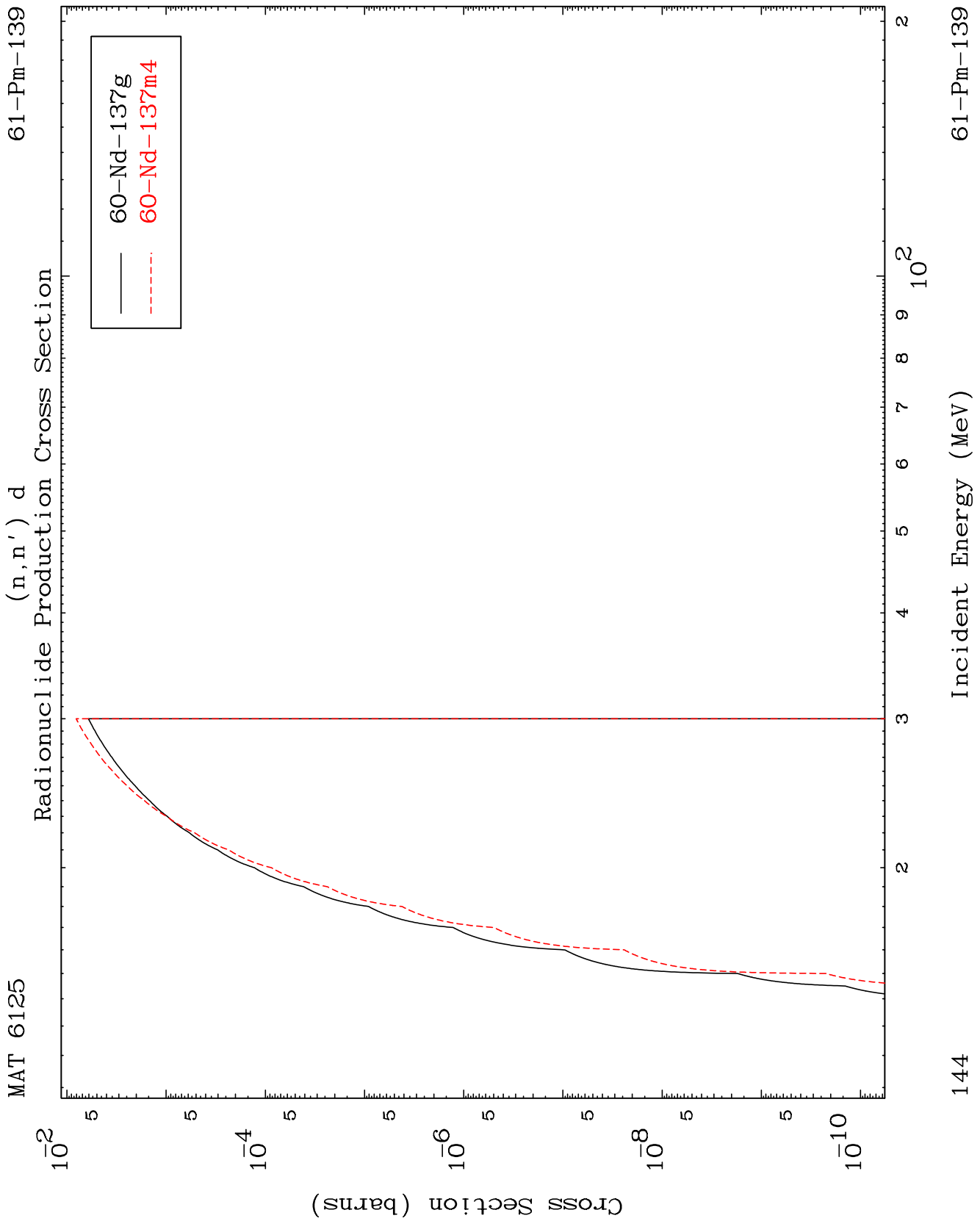


59-Pr-133g
59-Pr-133m3

143

Incident Energy (MeV)

61-Pm-139

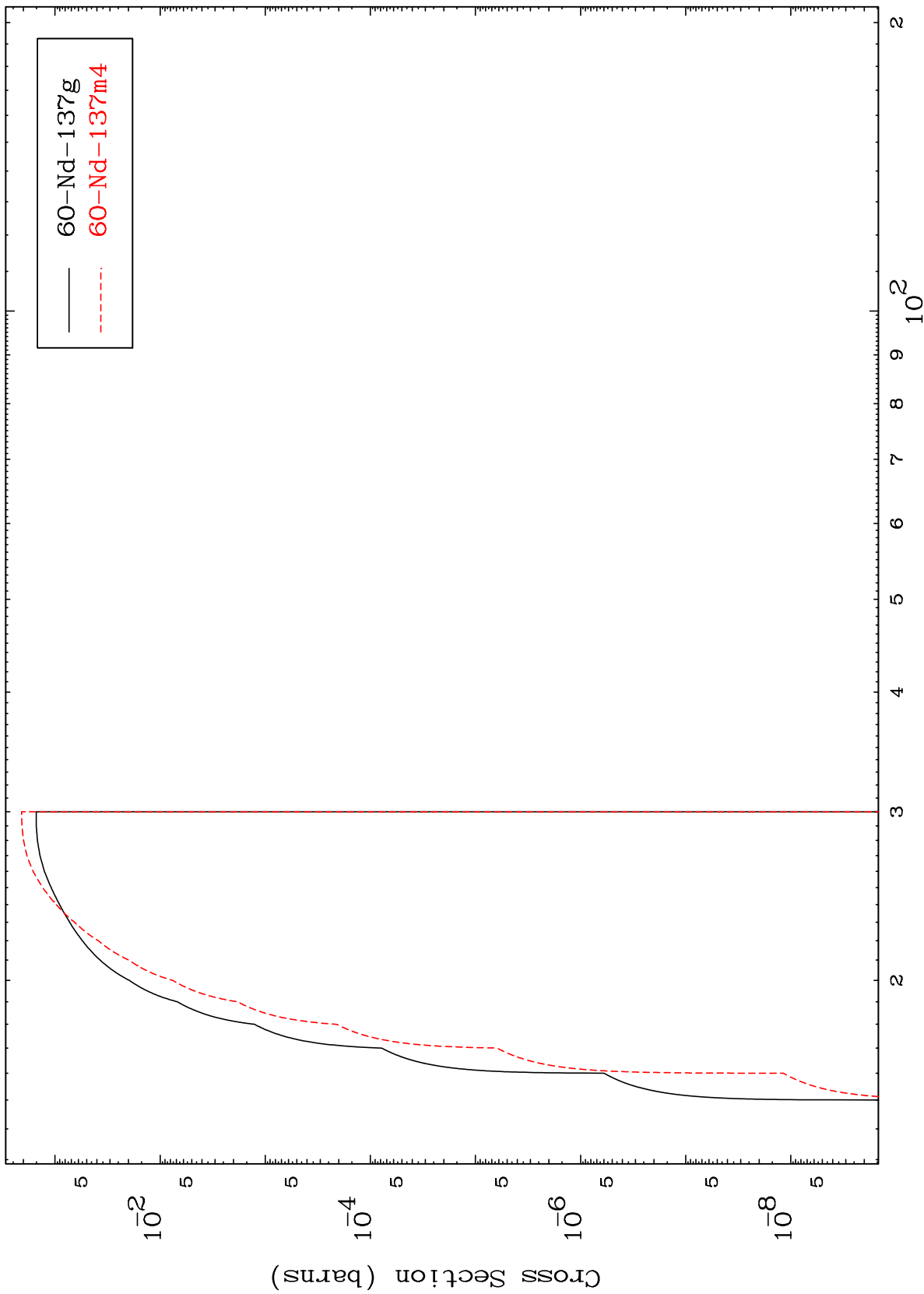


MAT 6125

(n,2n) p

61-Pm-139

Radionuclide Production Cross Section



145

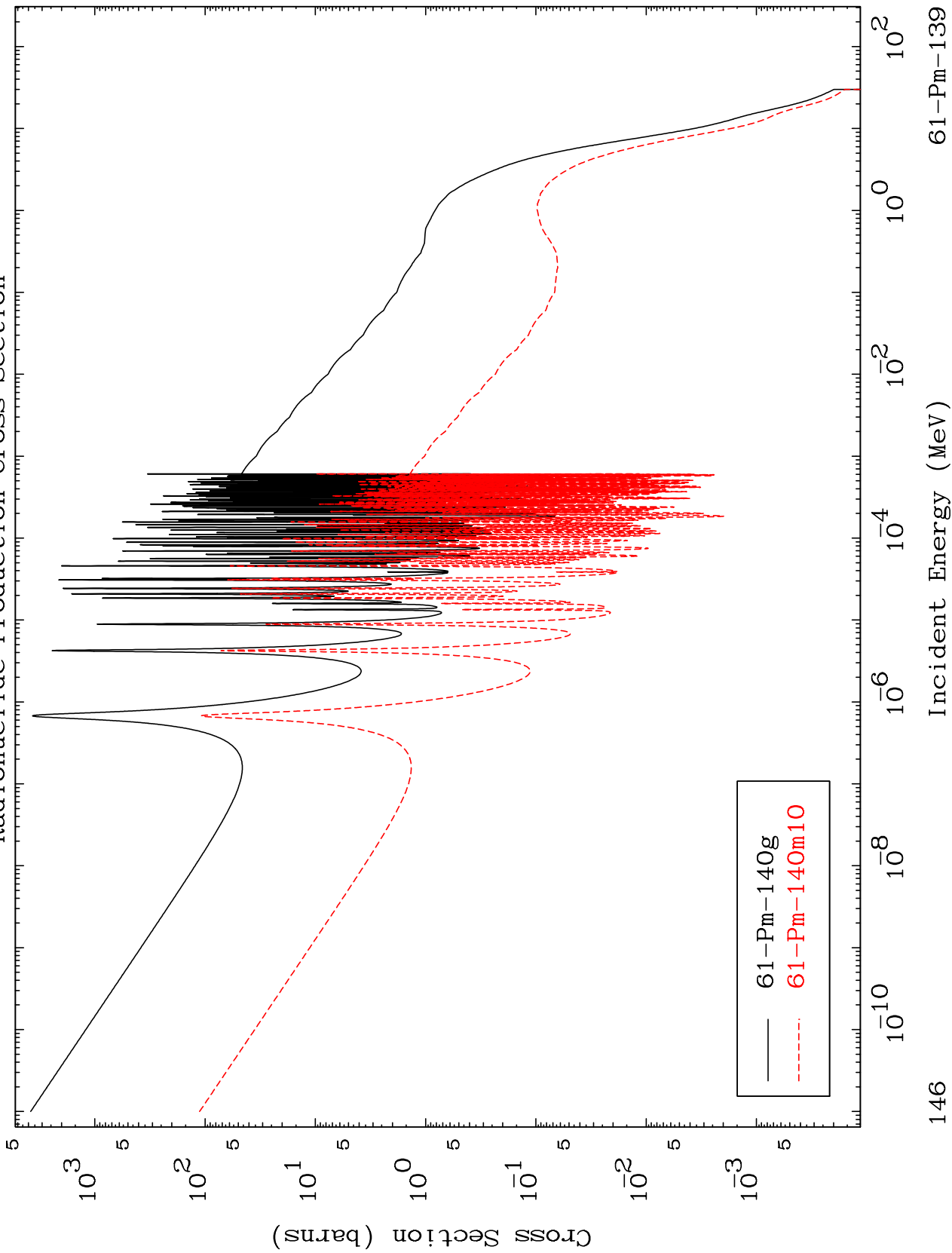
Incident Energy (MeV)

61-Pm-139

MAT 6125

61-Pm-139

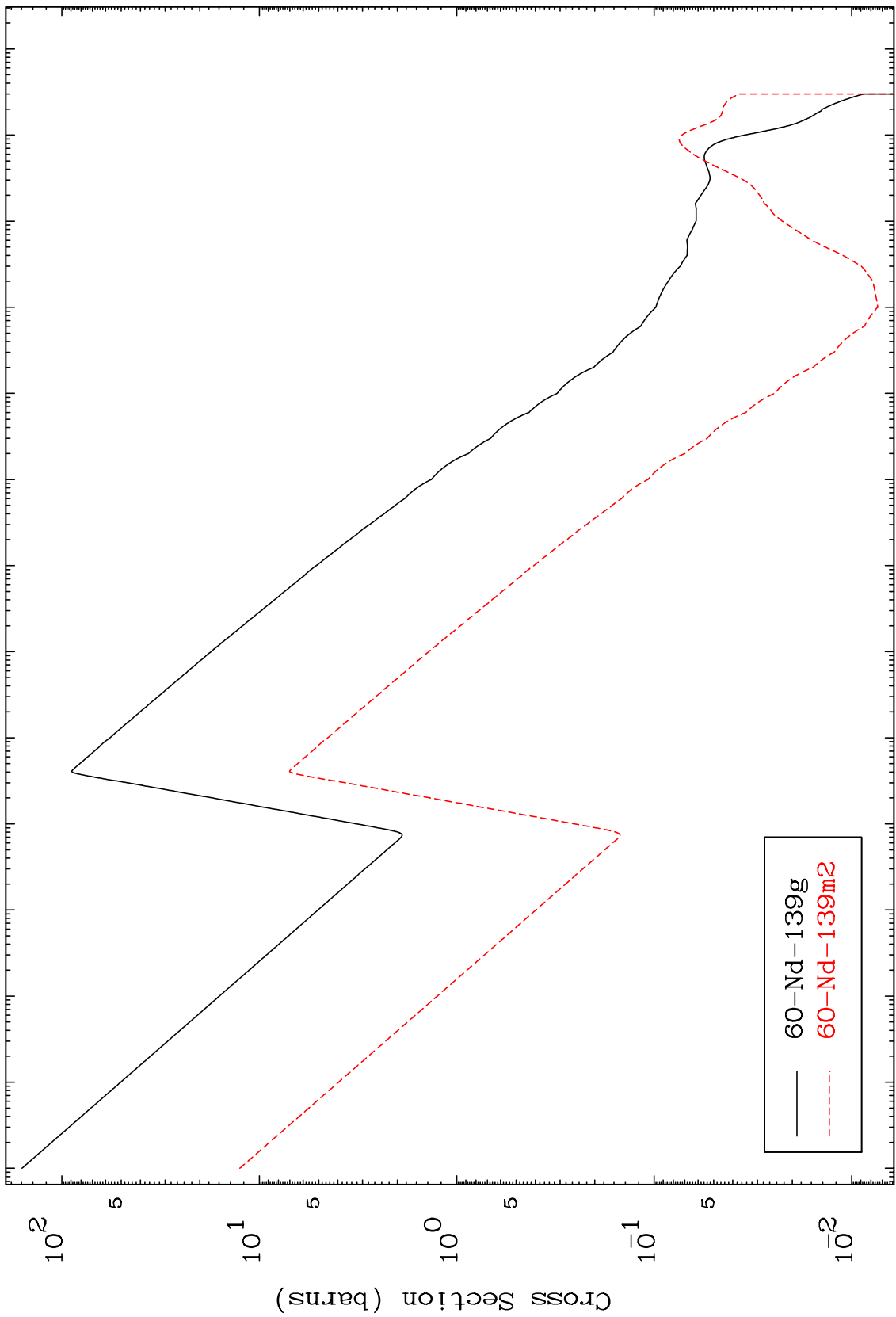
(n,γ)
Radionuclide Production Cross Section



MAT 6125

61-Pm-139

Radionuclide Production Cross Section



61-Pm-139

10^2

10^0

10^{-2}

10^{-4}

10^{-6}

10^{-8}

10^{-10}

Incident Energy (MeV)

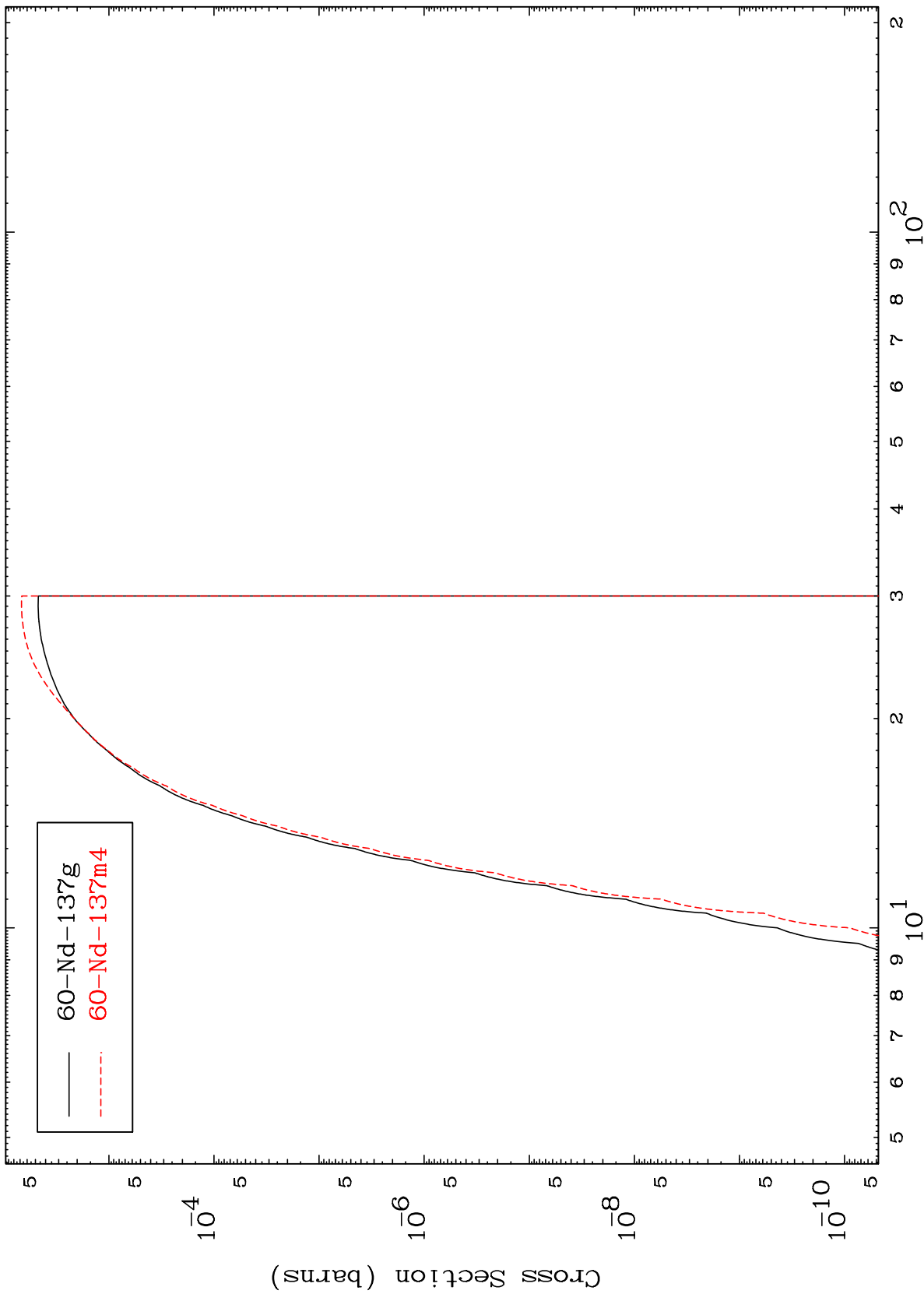
61-Pm-139

147

MAT 6125

61-Pm-139

(n, t)
Radionuclide Production Cross Section



148

Incident Energy (MeV)

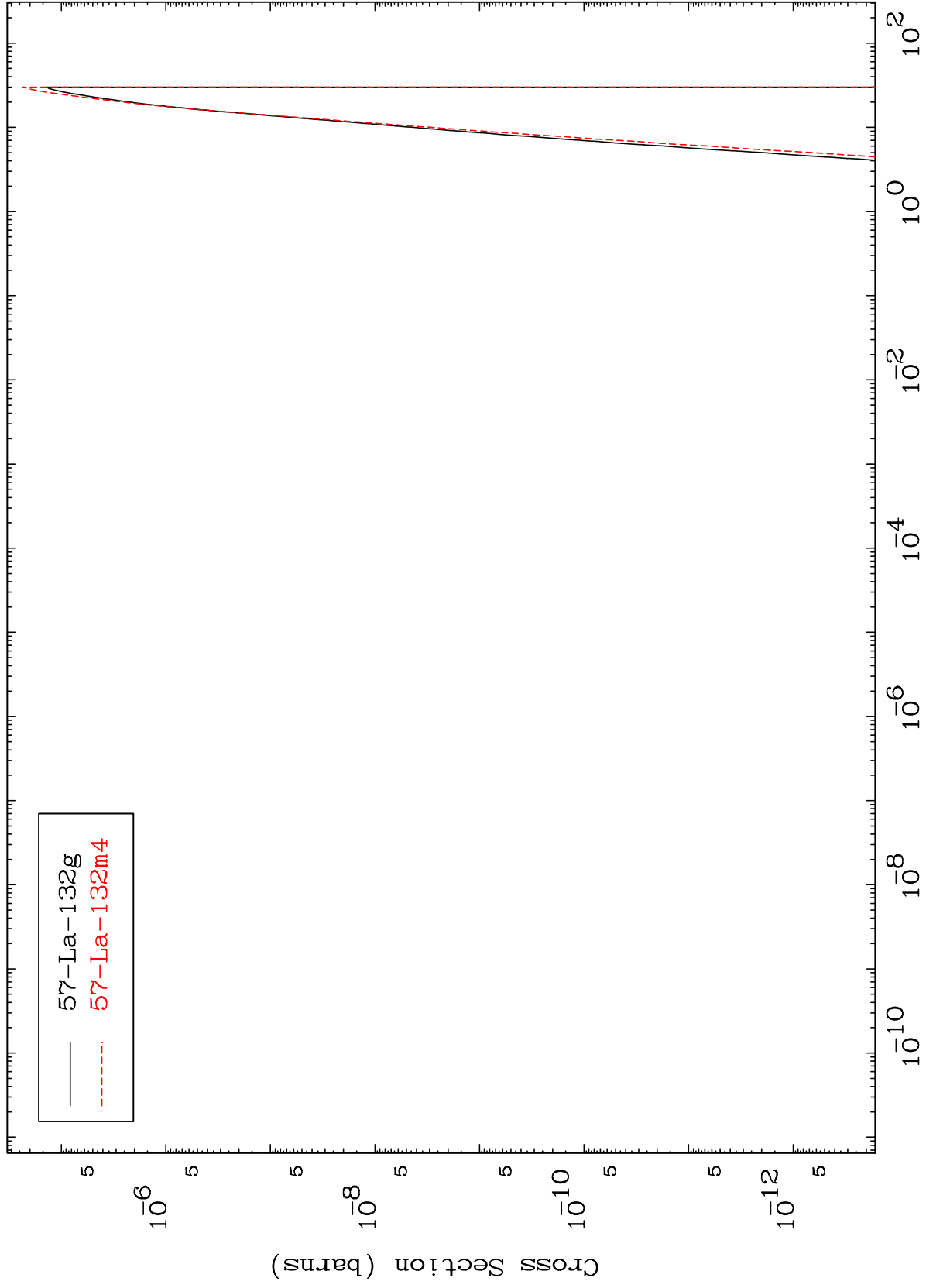
61-Pm-139

MAT 6125

(n,2α)

61-Pm-139

Radionuclide Production Cross Section



149

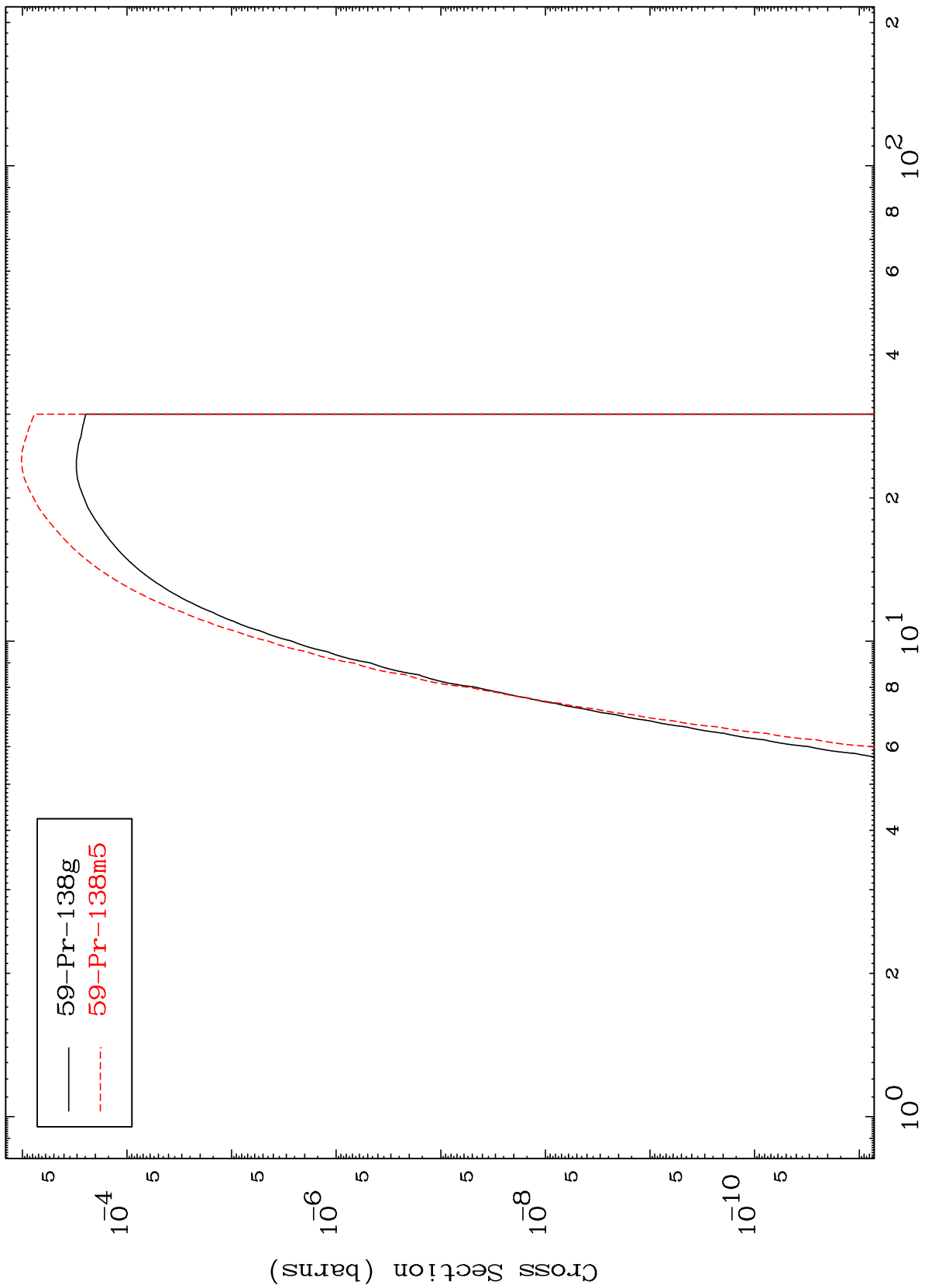
Incident Energy (MeV)

61-Pm-139

MAT 6125

61-Pm-139

(n,2p)
Radionuclide Production Cross Section



— 59-Pr-138g
- - - 59-Pr-138m5

61-Pm-139

Incident Energy (MeV)

150

MAT 6125

(n,p) α

61-Pm-139

Radionuclide Production Cross Section

