

Program EVALPLOT  
(Version 2015-2)

by

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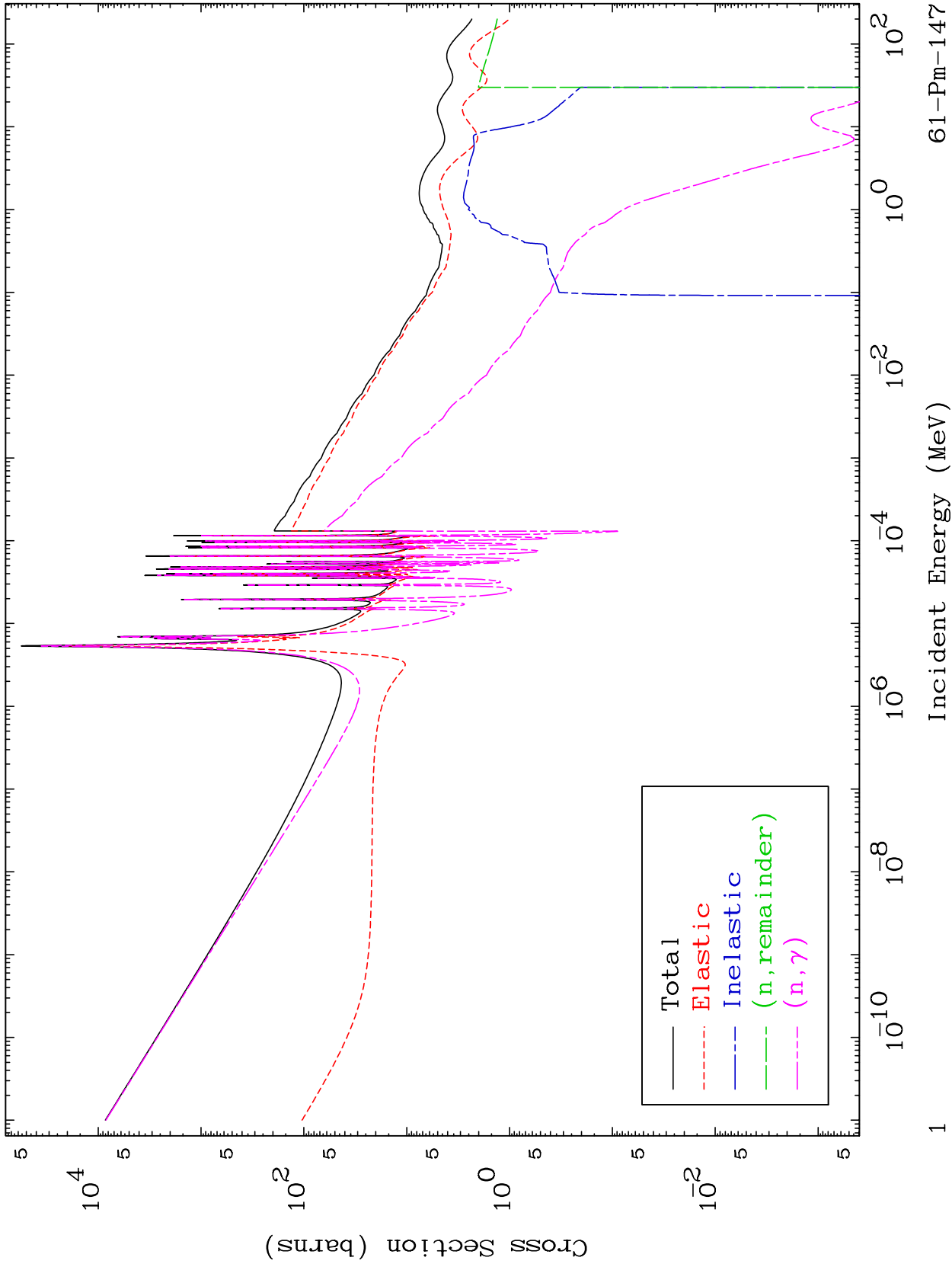
E.Mail:redcullen1@comcast.net  
Web:home.comcast.net/~redcullen1

Press Mouse Button to Start

MAT 6149

Major  
293 Kelvin Cross Sections

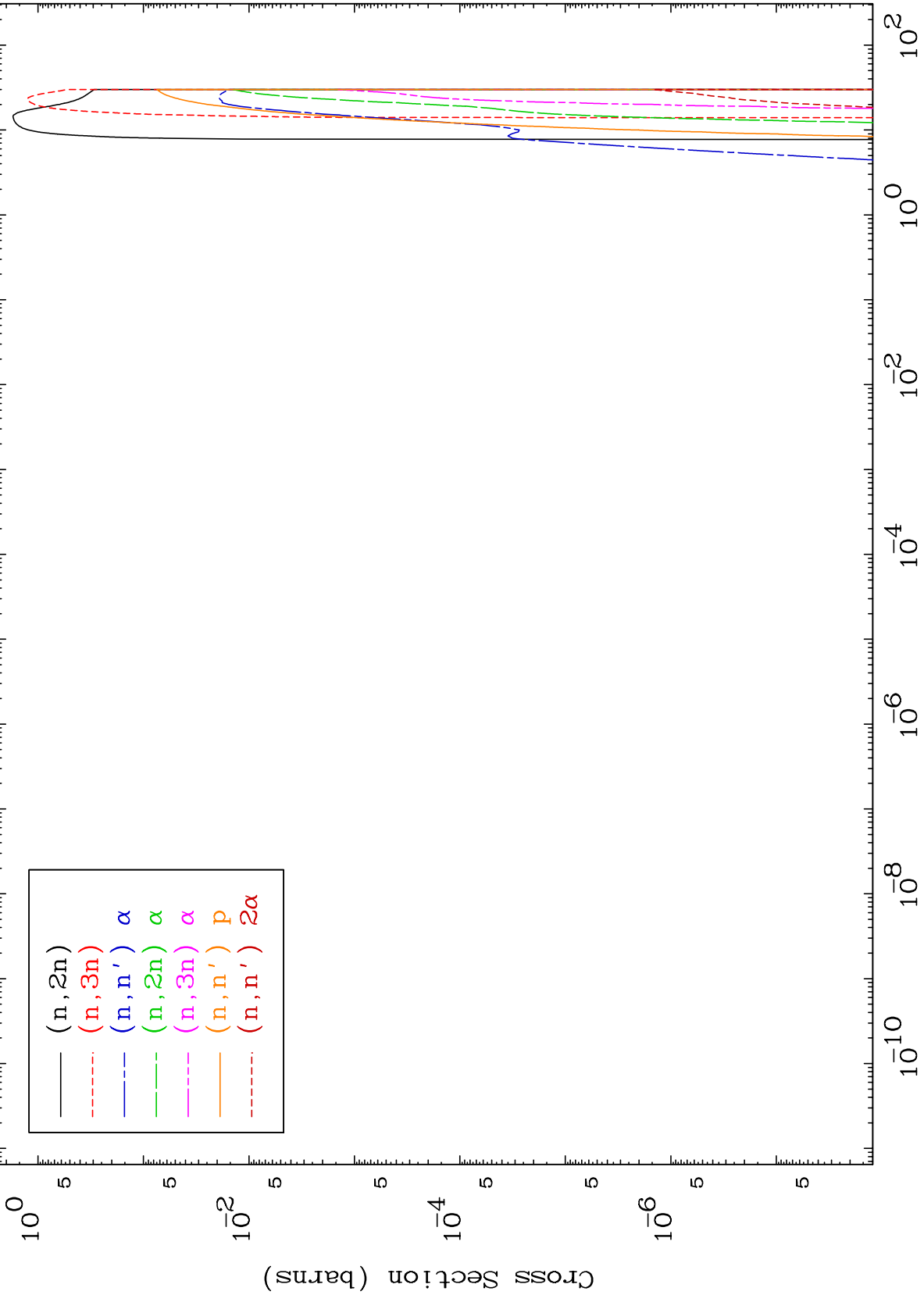
61-Pm-147



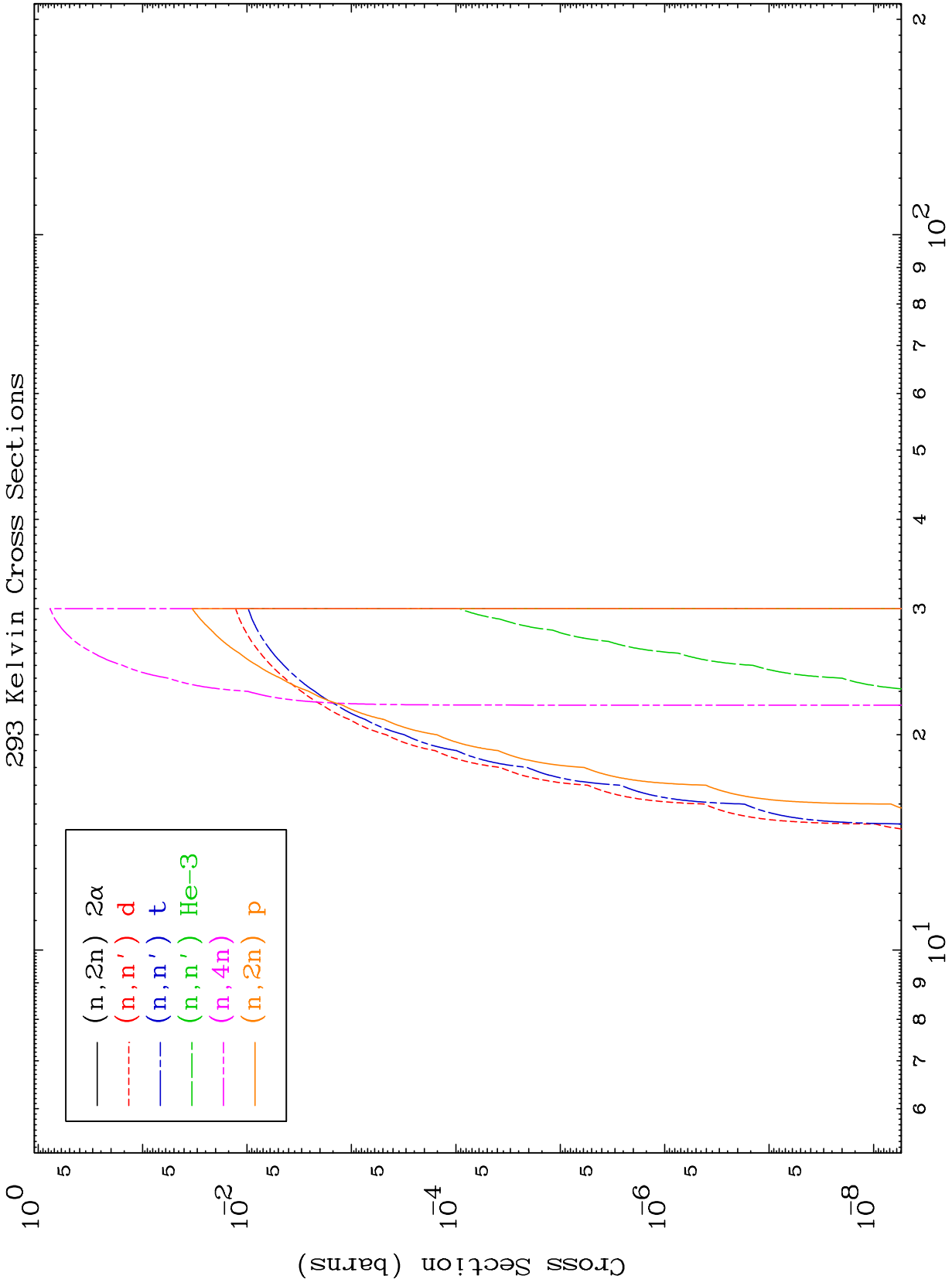
MAT 6149

Neutron Production  
293 Kelvin Cross Sections

61-Pm-147



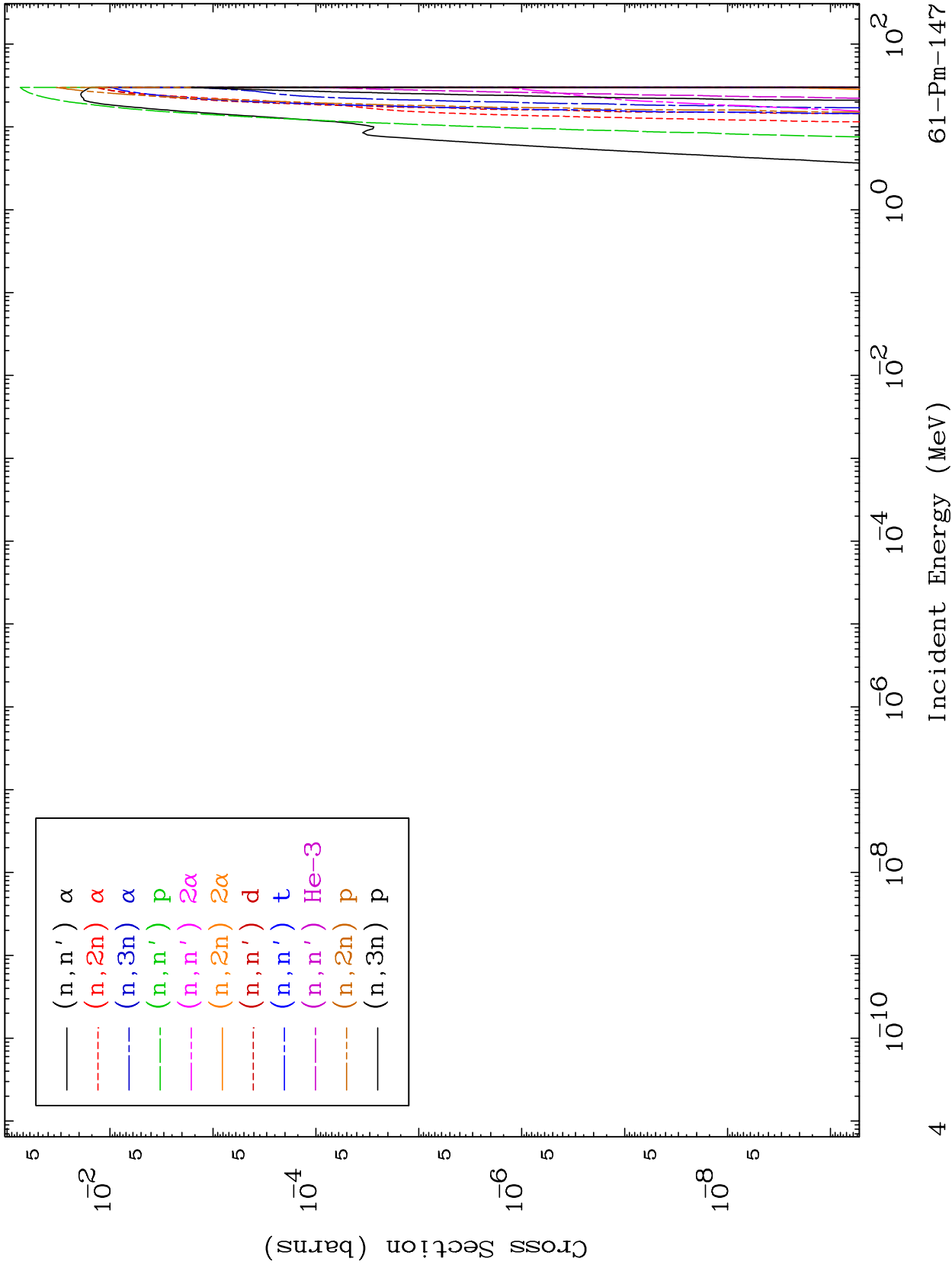
61-Pm-147



MAT 6149

Charged Particle  
293 Kelvin Cross Sections

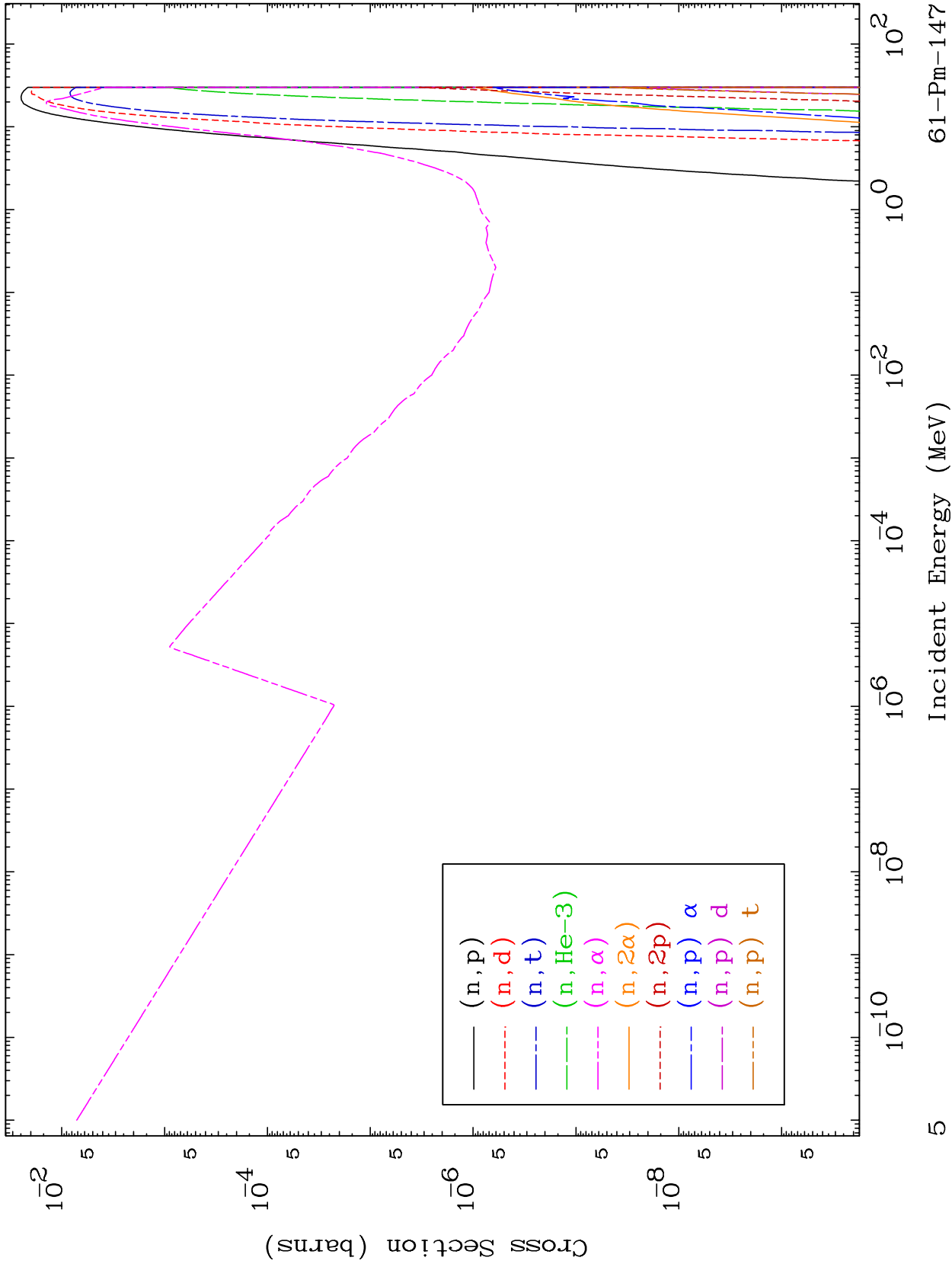
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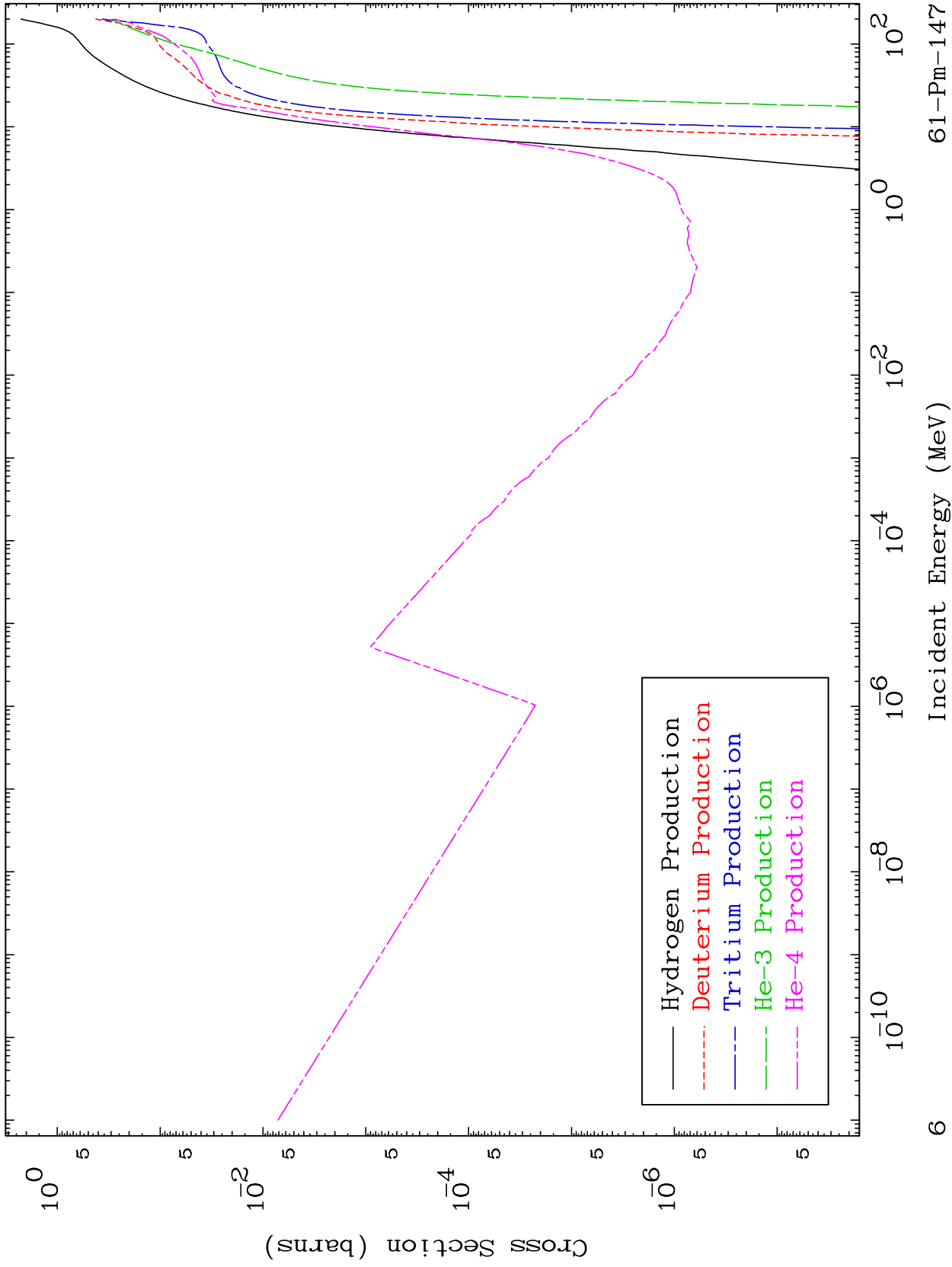


MAT 6149

Charged Particle  
293 Kelvin Cross Sections

61-Pm-147

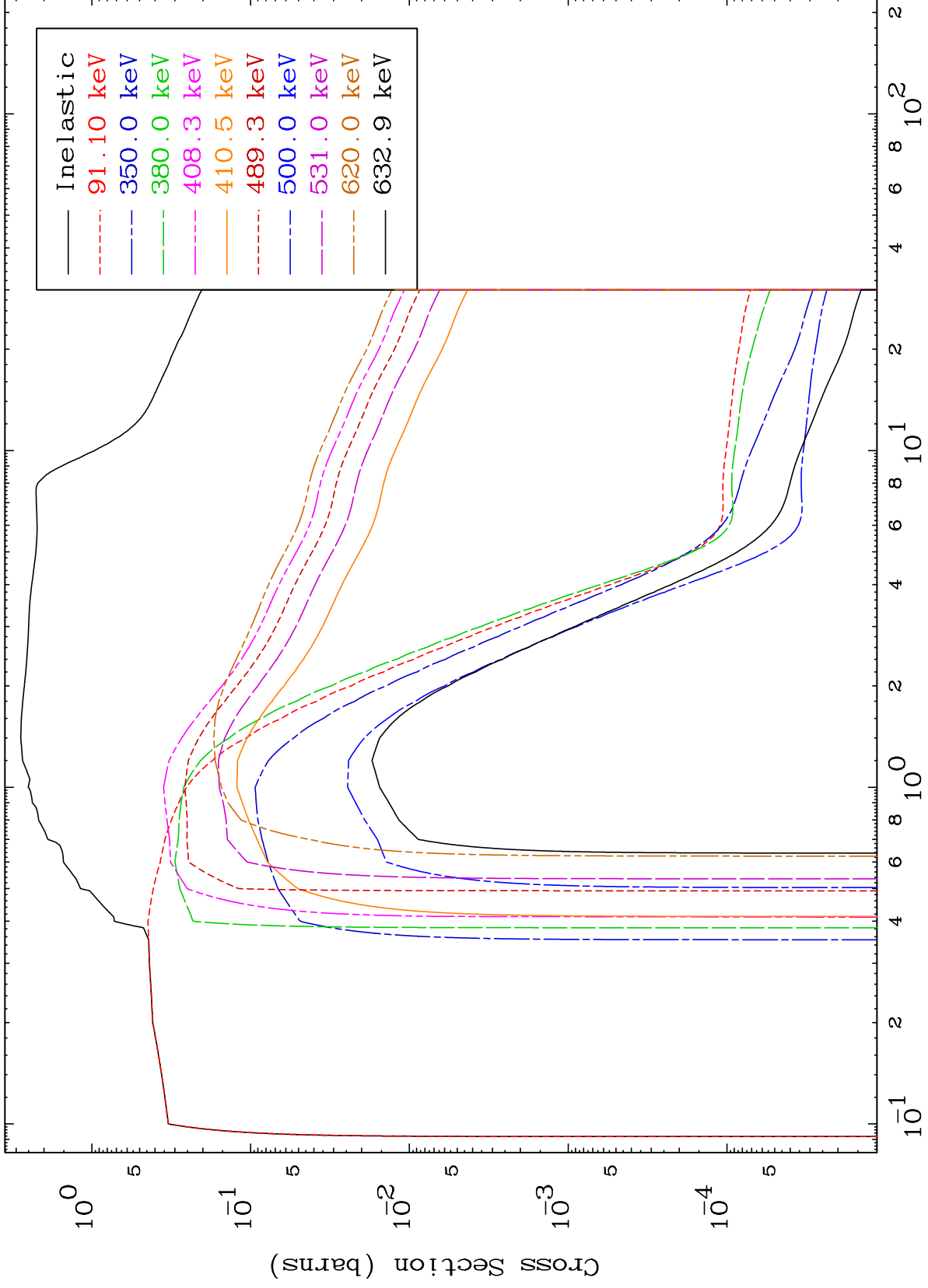




MAT 6149

(n,n') Level  
293 Kelvin Cross Sections

61-Pm-147



Incident Energy (MeV)

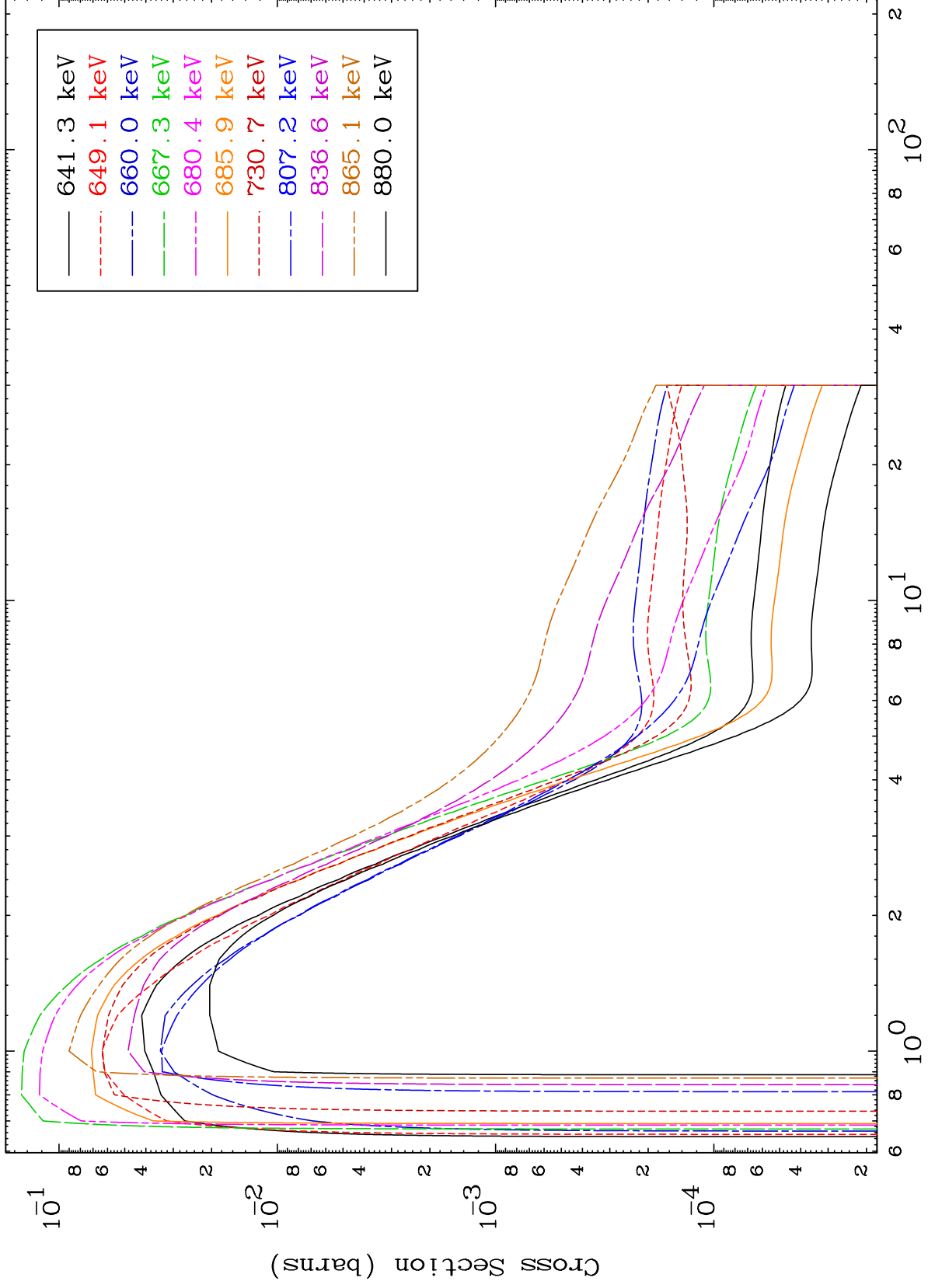
61-Pm-147



MAT 6149

(n,n') Level  
293 Kelvin Cross Sections

61-Pm-147



61-Pm-147

Incident Energy (MeV)

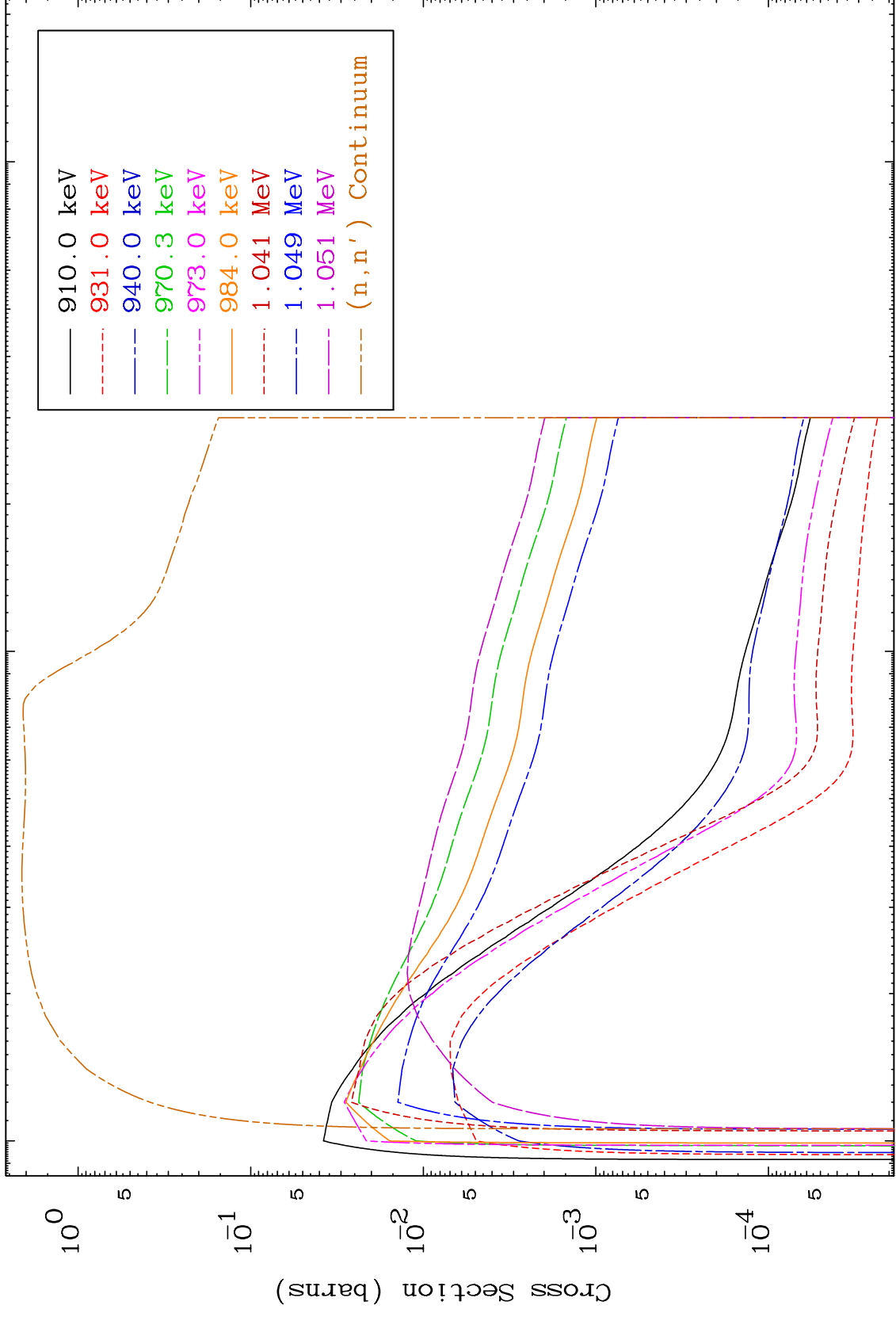
8

MAT 6149

(n,n') Level

61-Pm-147

293 Kelvin Cross Sections



61-Pm-147

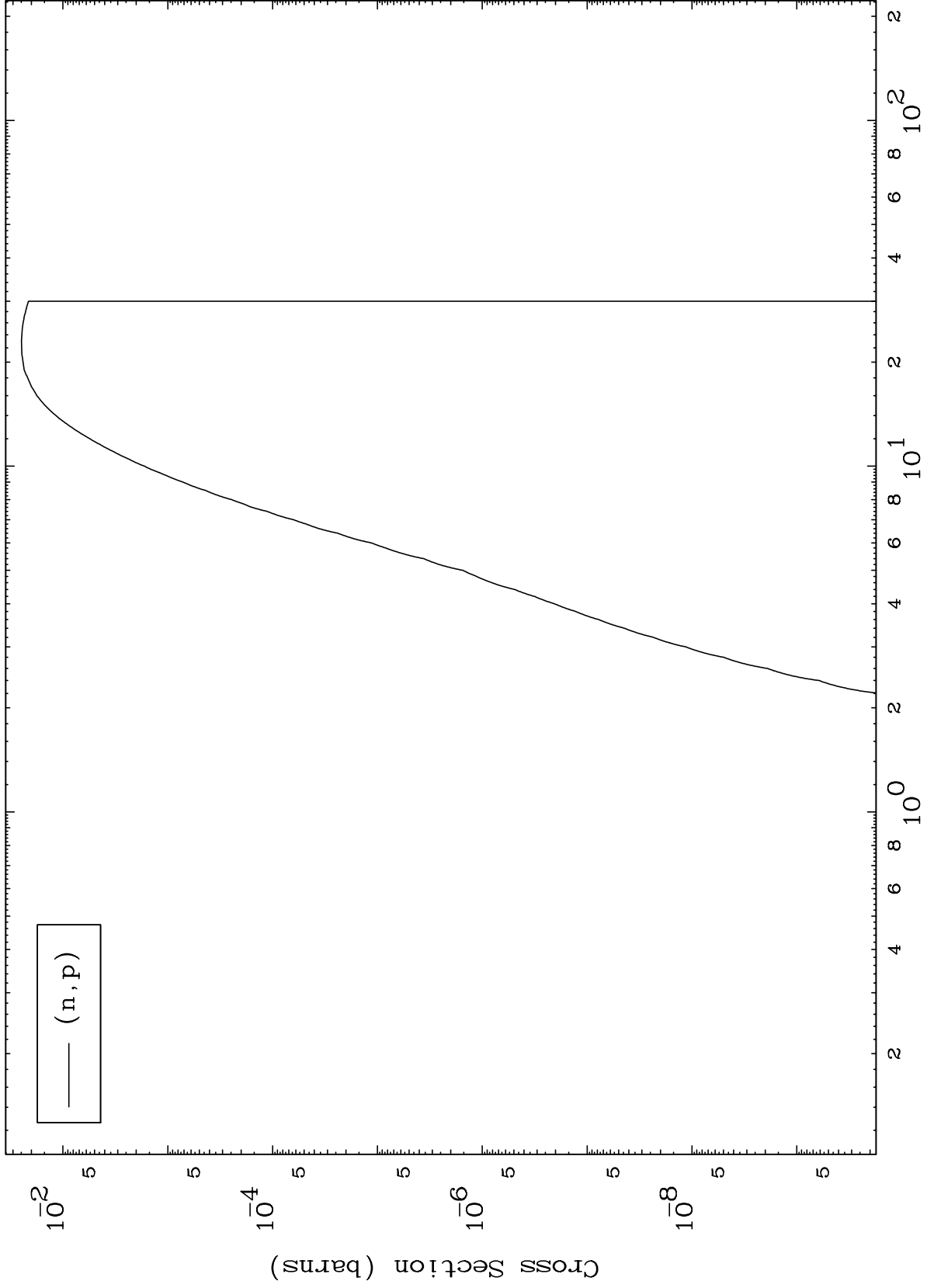
Incident Energy (MeV)

61-Pm-147

MAT 6149

(n,p) Levels  
293 Kelvin Cross Sections

61-Pm-147



10

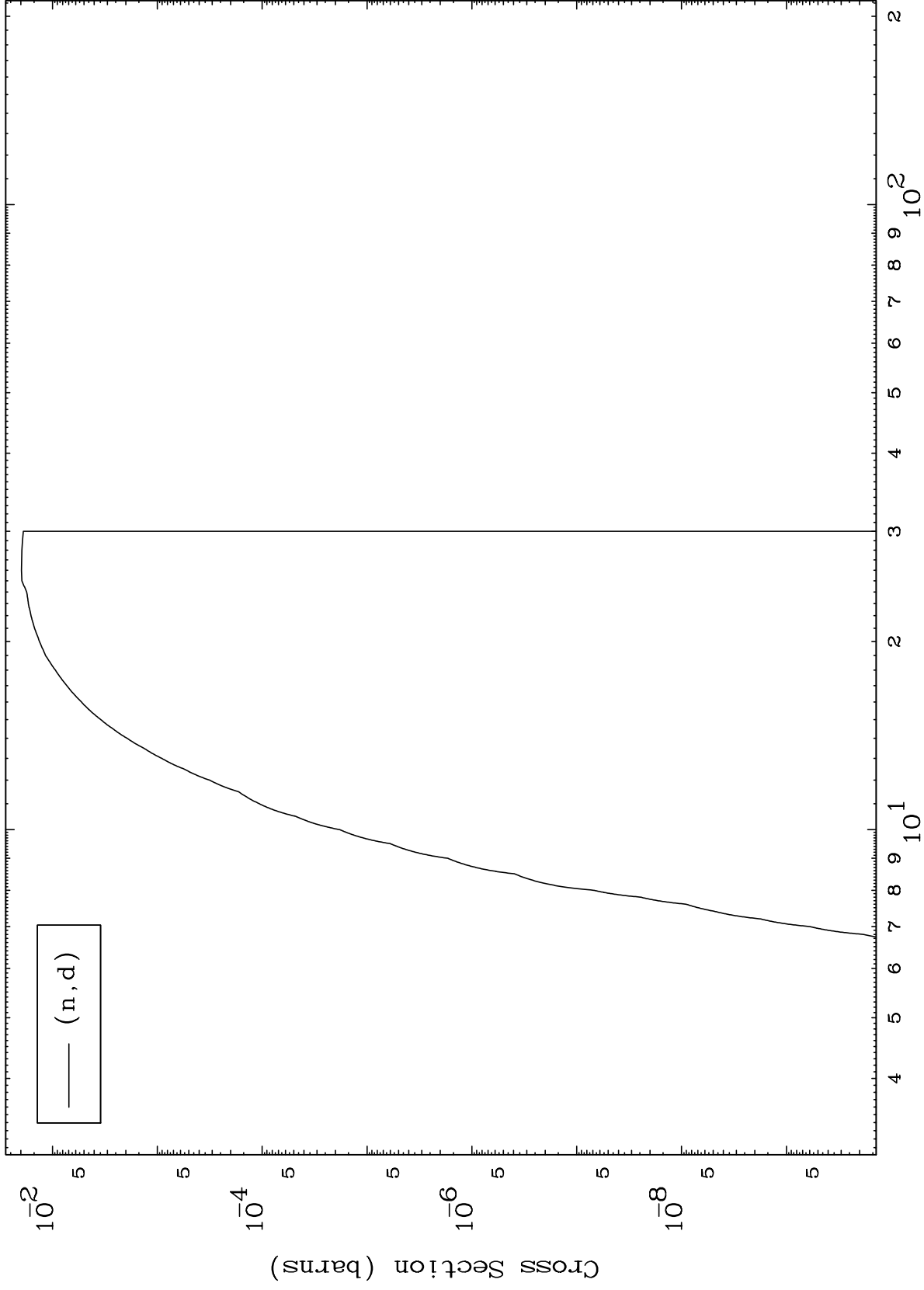
Incident Energy (MeV)

61-Pm-147

MAT 6149

(n,d) Levels  
293 Kelvin Cross Sections

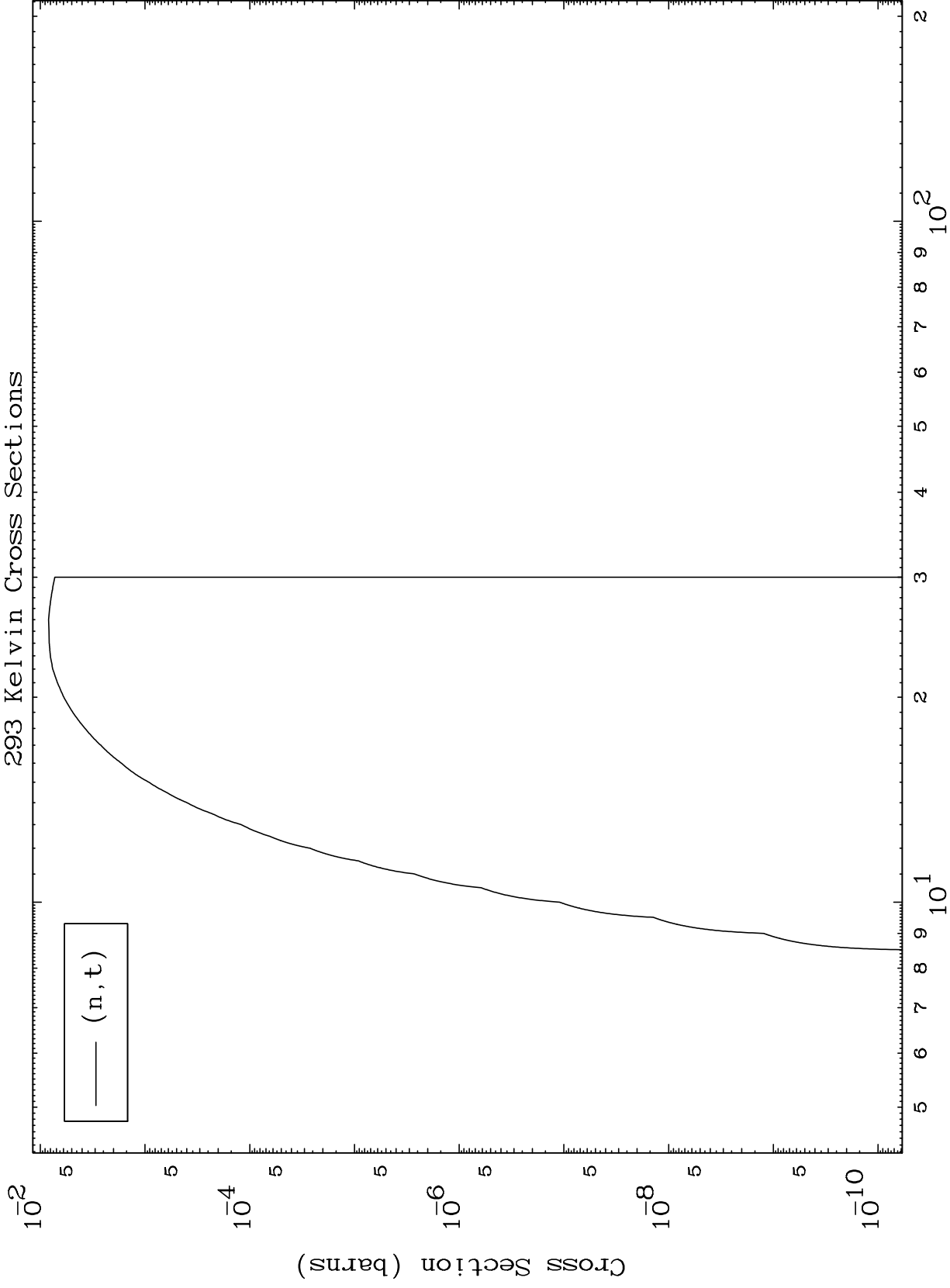
61-Pm-147



MAT 6149

(n,t) Levels  
293 Kelvin Cross Sections

61-Pm-147



12

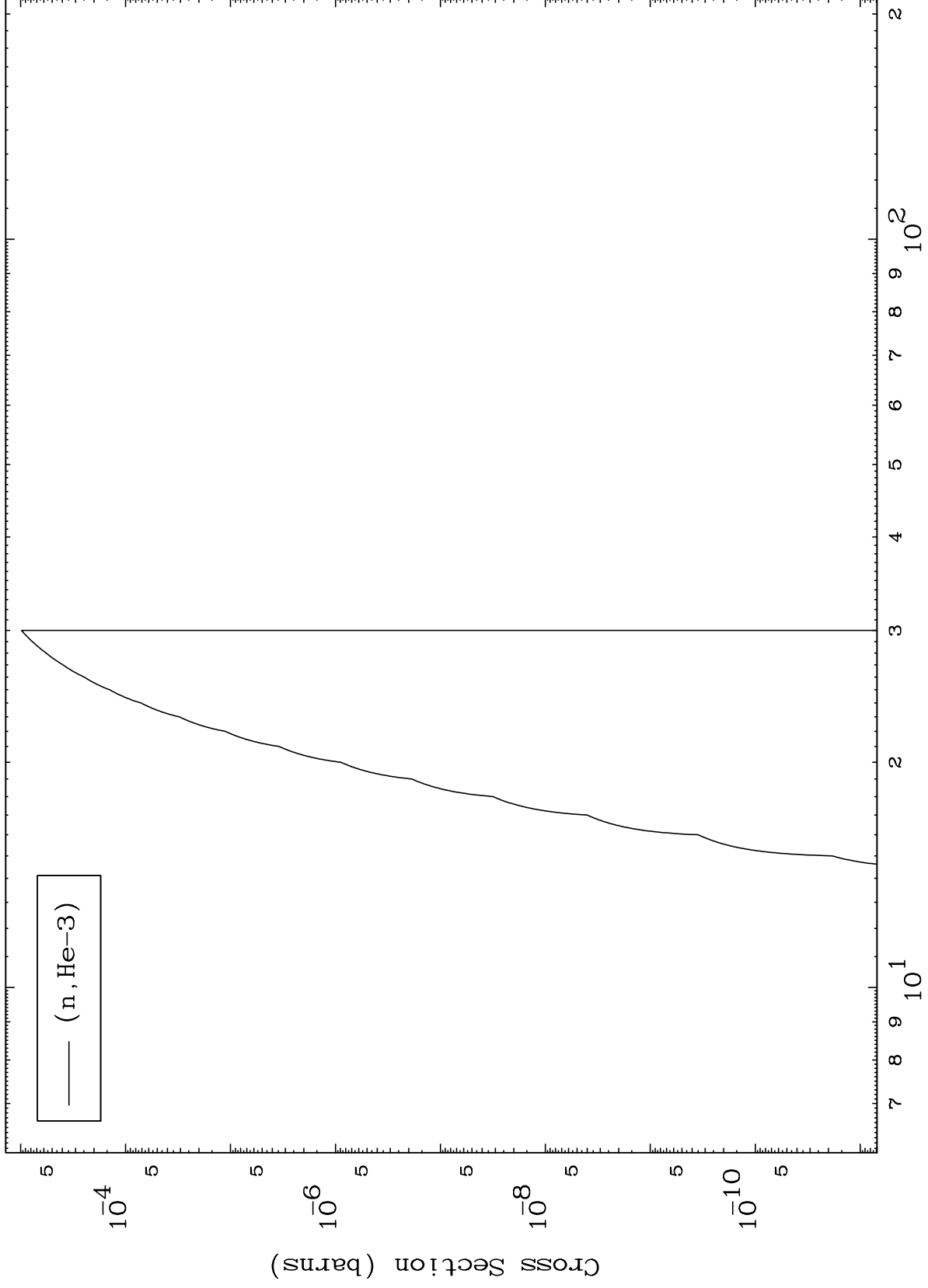
Incident Energy (MeV)

61-Pm-147

MAT 6149

(n,He3) Levels  
293 Kelvin Cross Sections

61-Pm-147



13

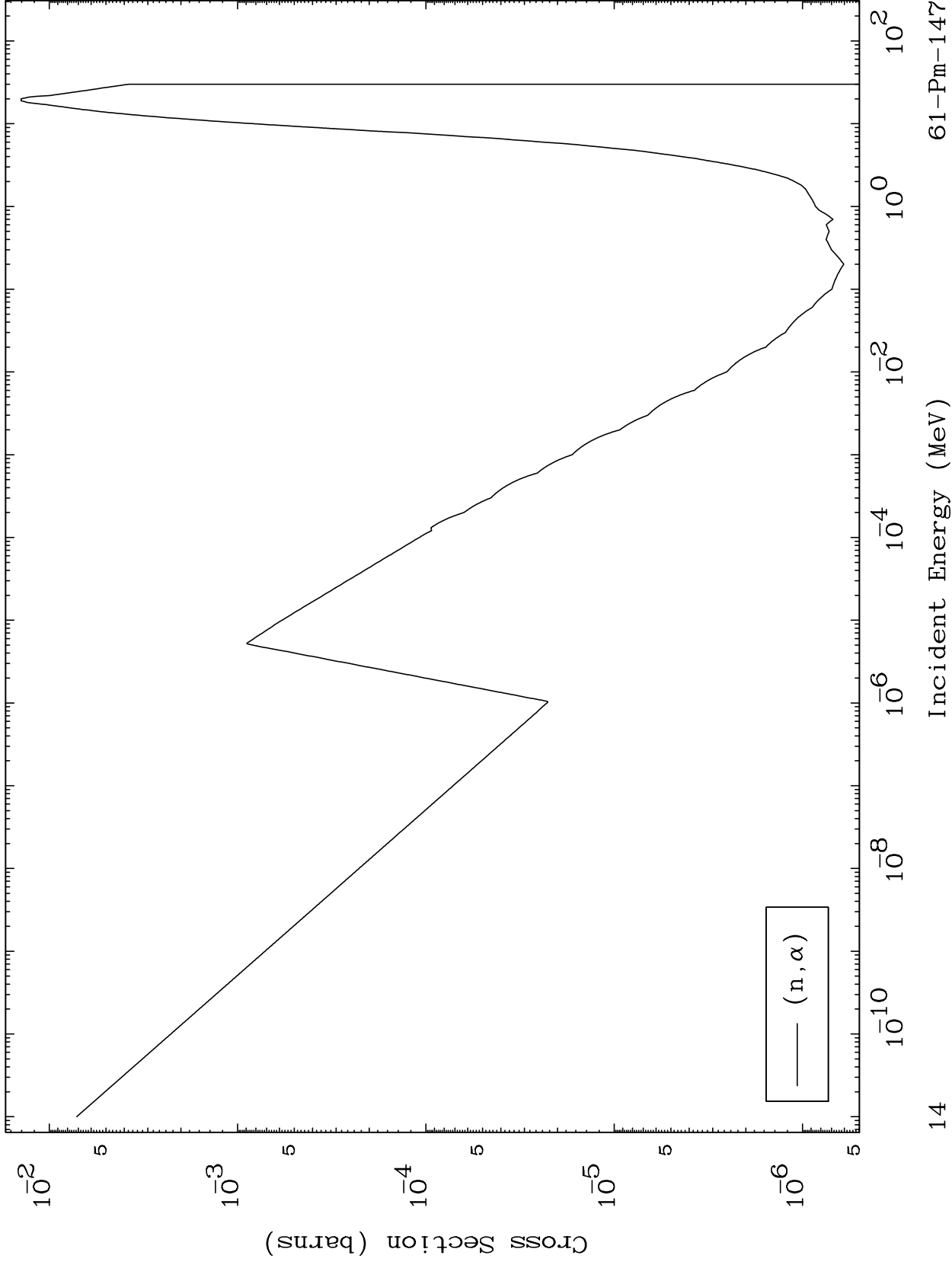
Incident Energy (MeV)

61-Pm-147

MAT 6149

(n,α) Levels  
293 Kelvin Cross Sections

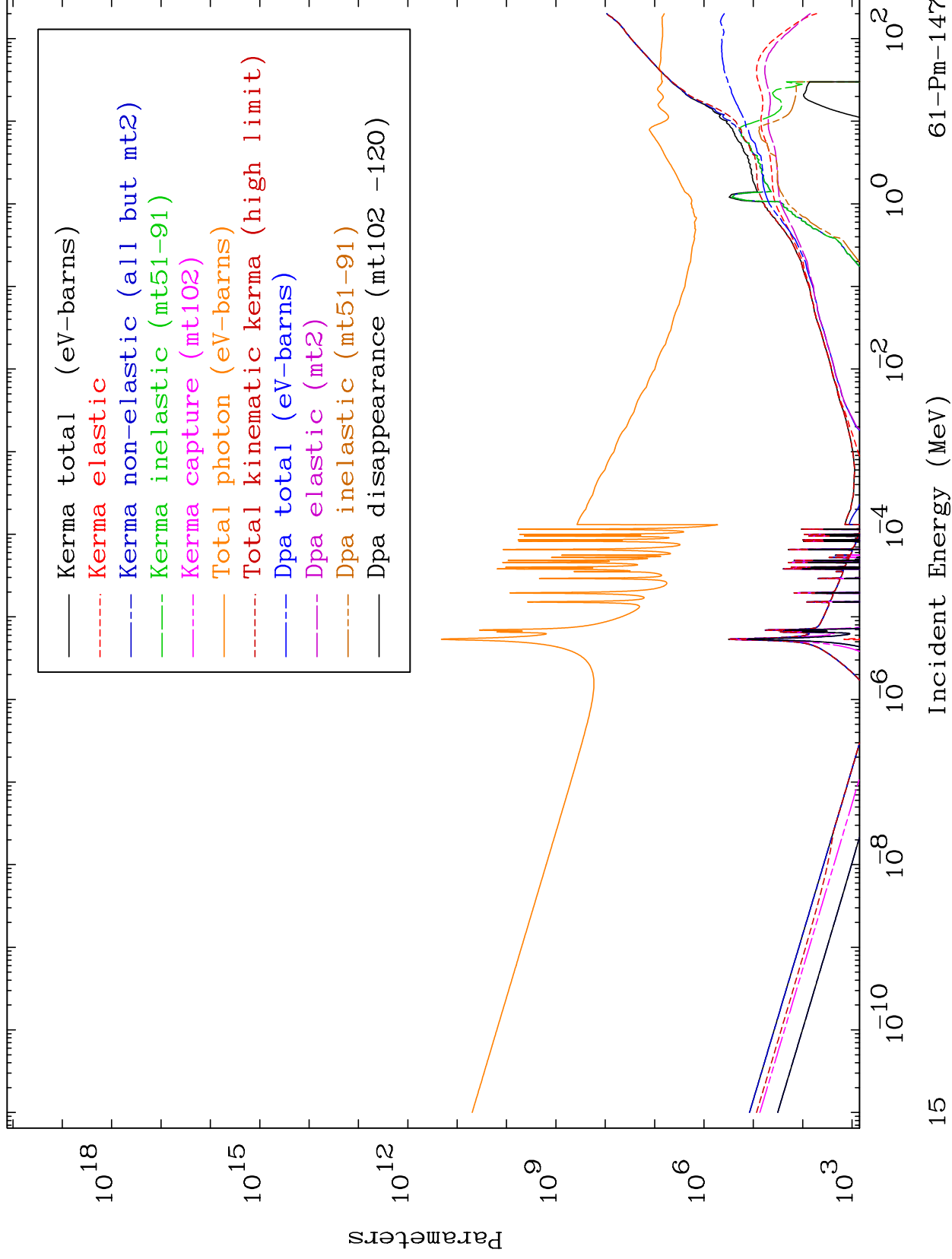
61-Pm-147



14

Incident Energy (MeV)

61-Pm-147

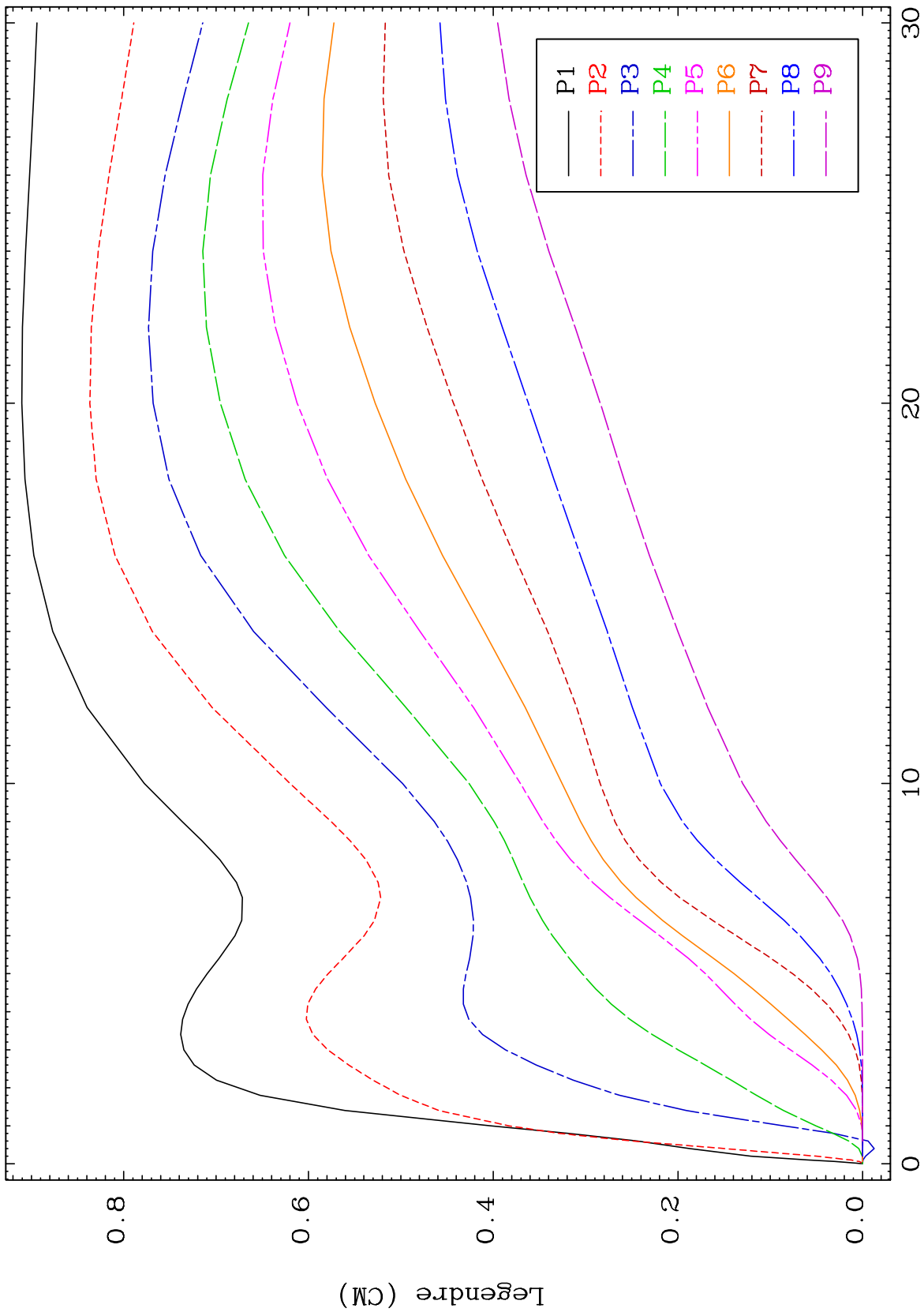




MAT 6149

61-Pm-147

Elastic Legendre Coefficients



16

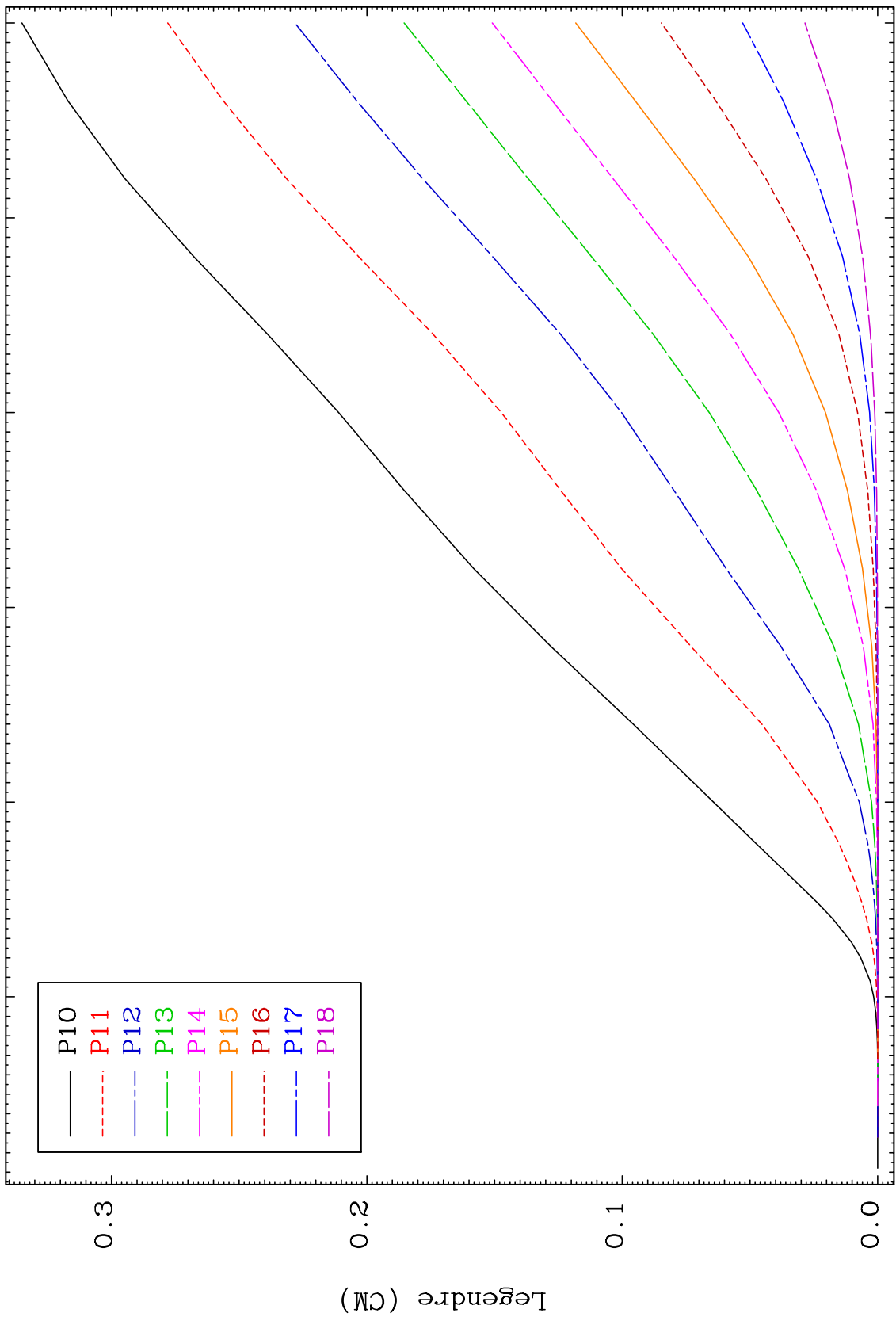
Incident Energy (MeV)

61-Pm-147

MAT 6149

Elastic Legendre Coefficients

61-Pm-147



17

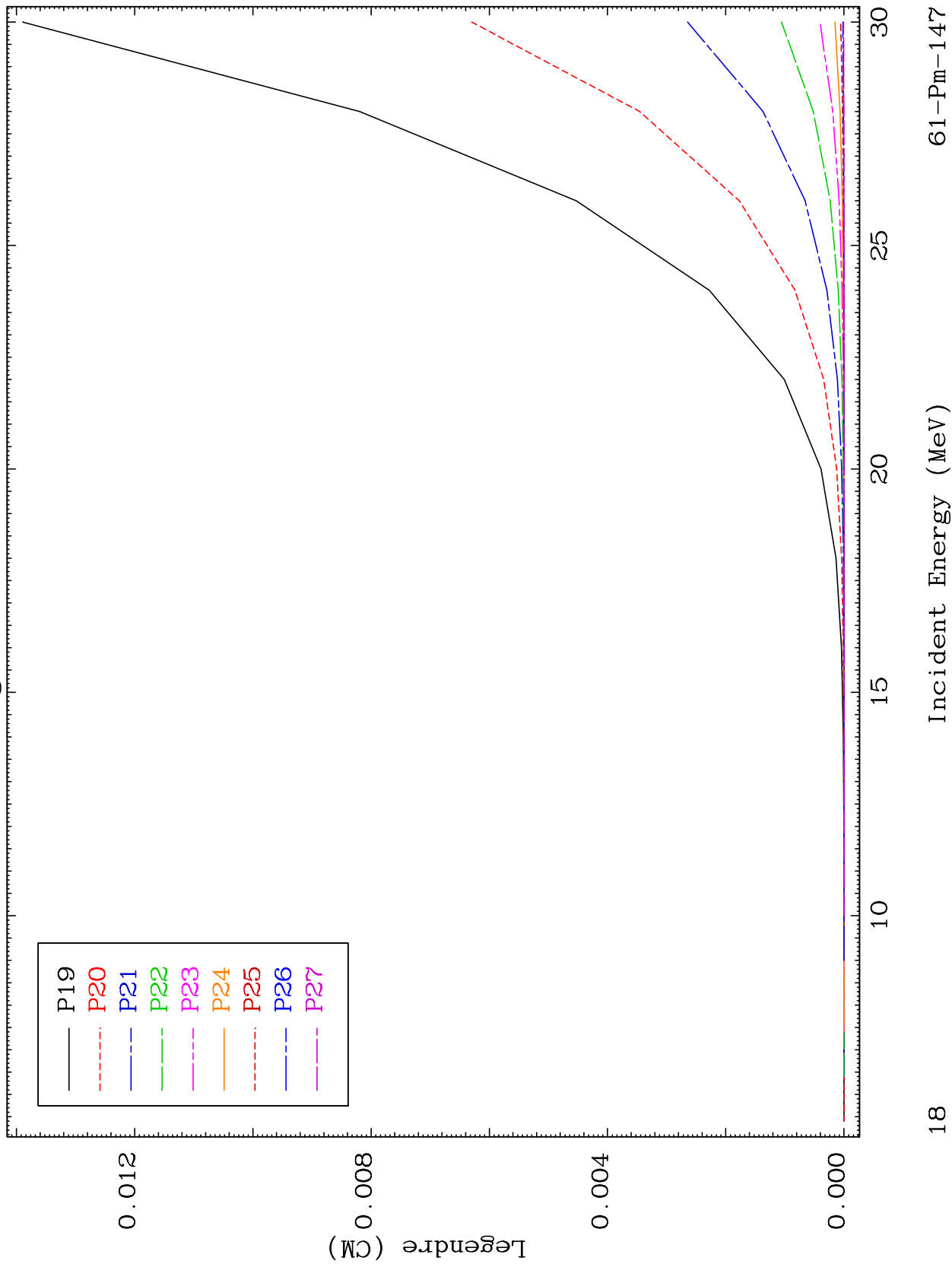
Incident Energy (MeV)

61-Pm-147

MAT 6149

### Elastic Legendre Coefficients

61-Pm-147



18

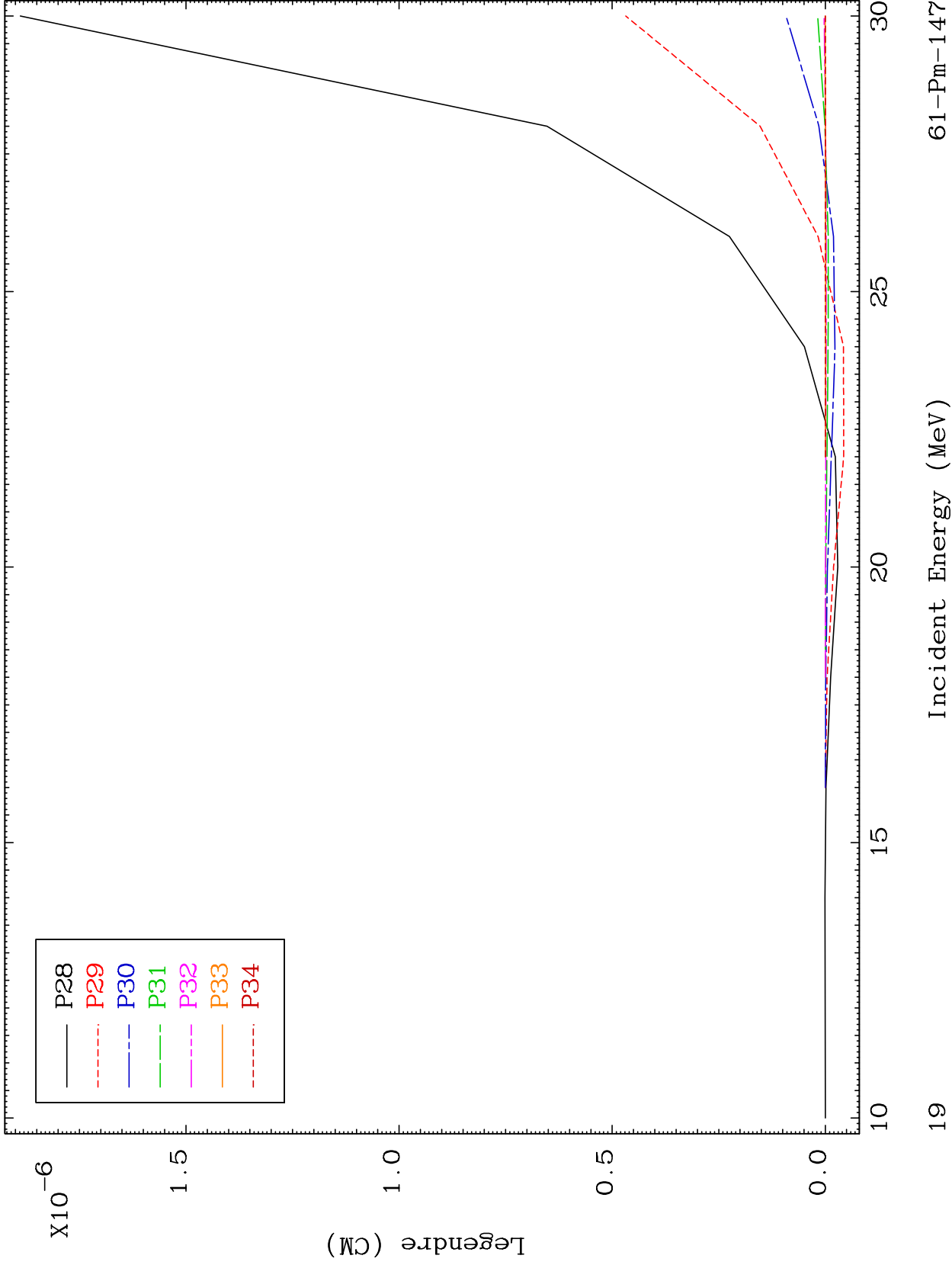
Incident Energy (MeV)

61-Pm-147

MAT 6149

Elastic Legendre Coefficients

61-Pm-147



19

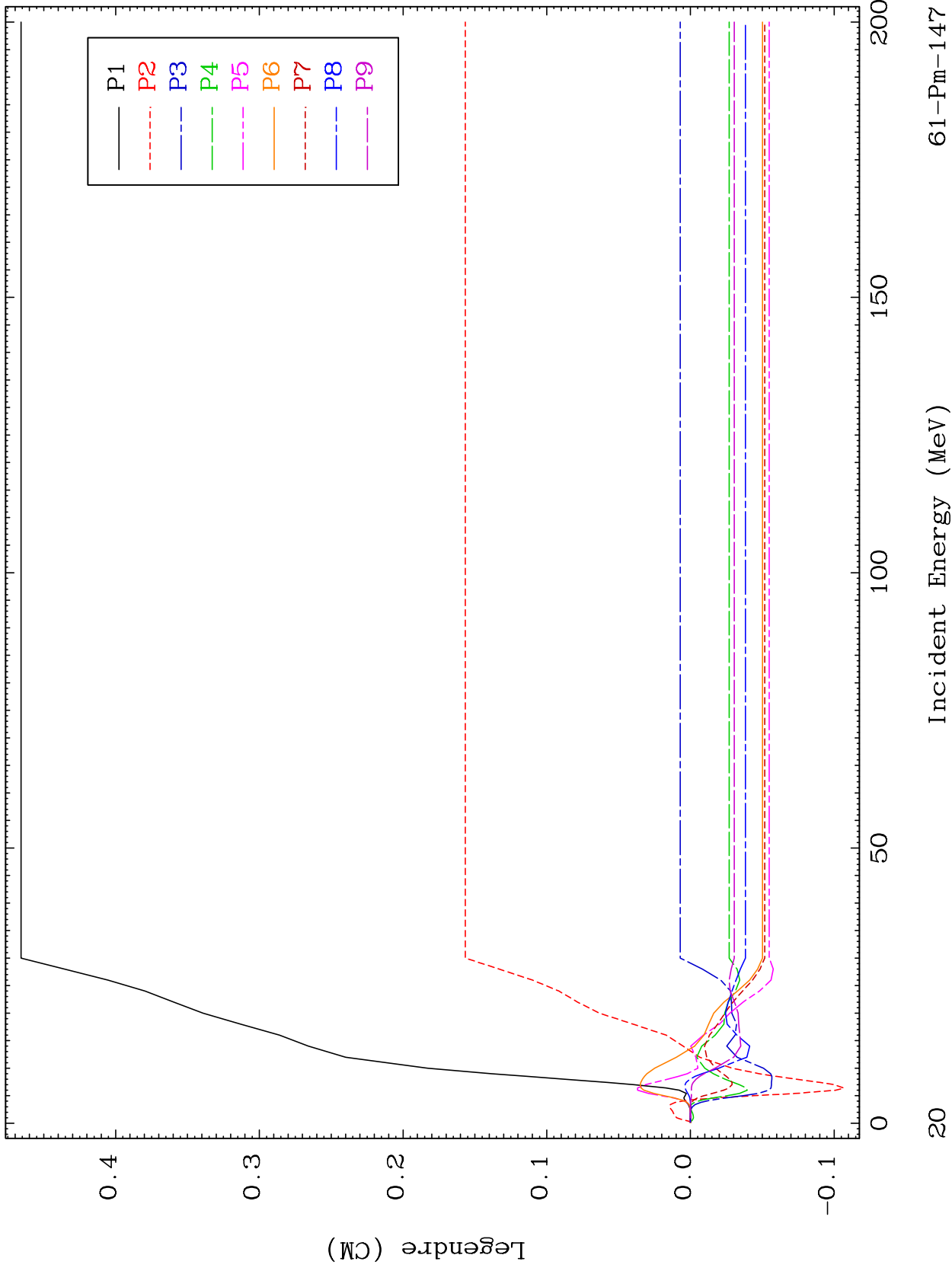
Incident Energy (MeV)

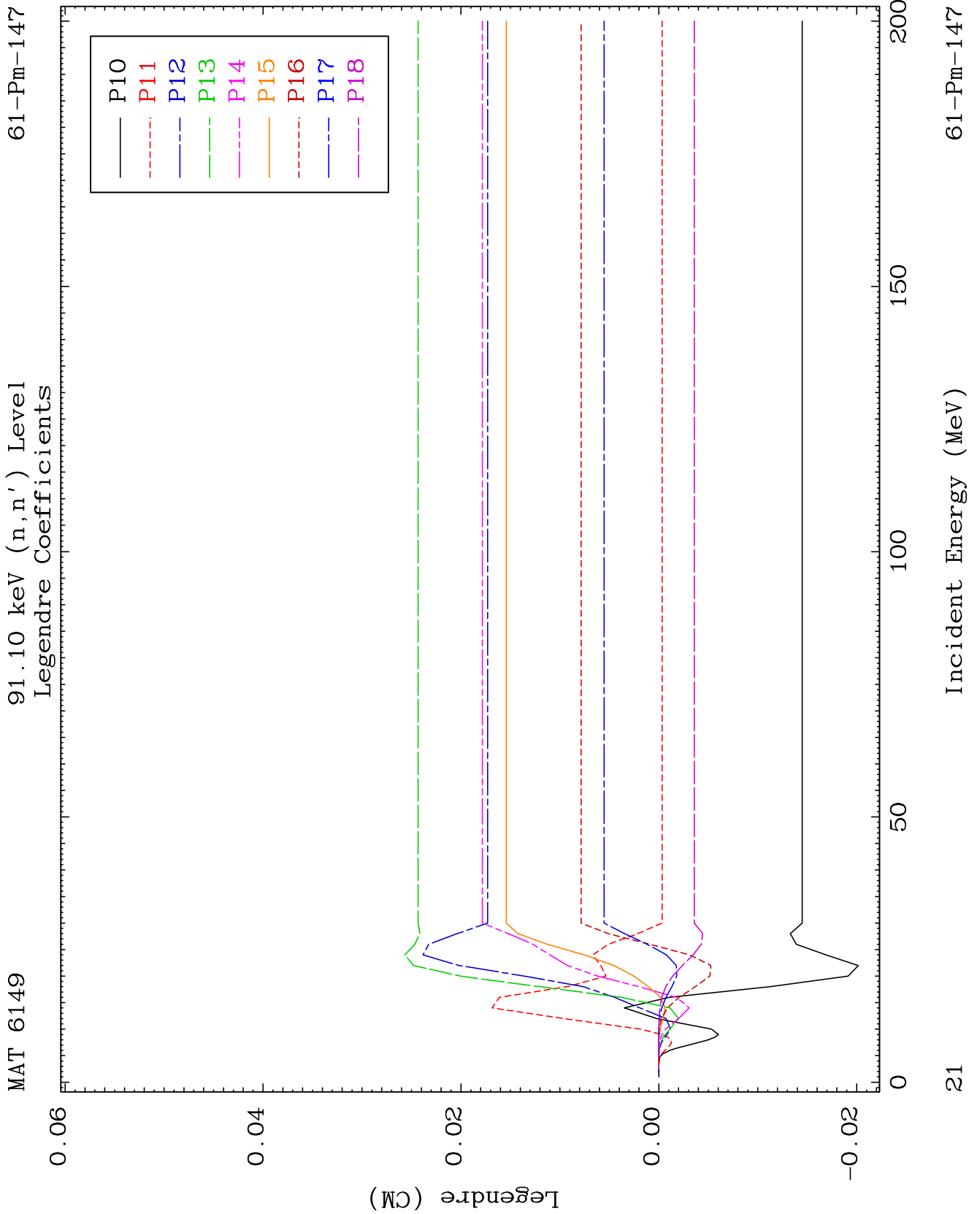
61-Pm-147

MAT 6149

91.10 keV (n,n') Level  
Legendre Coefficients

61-Pm-147

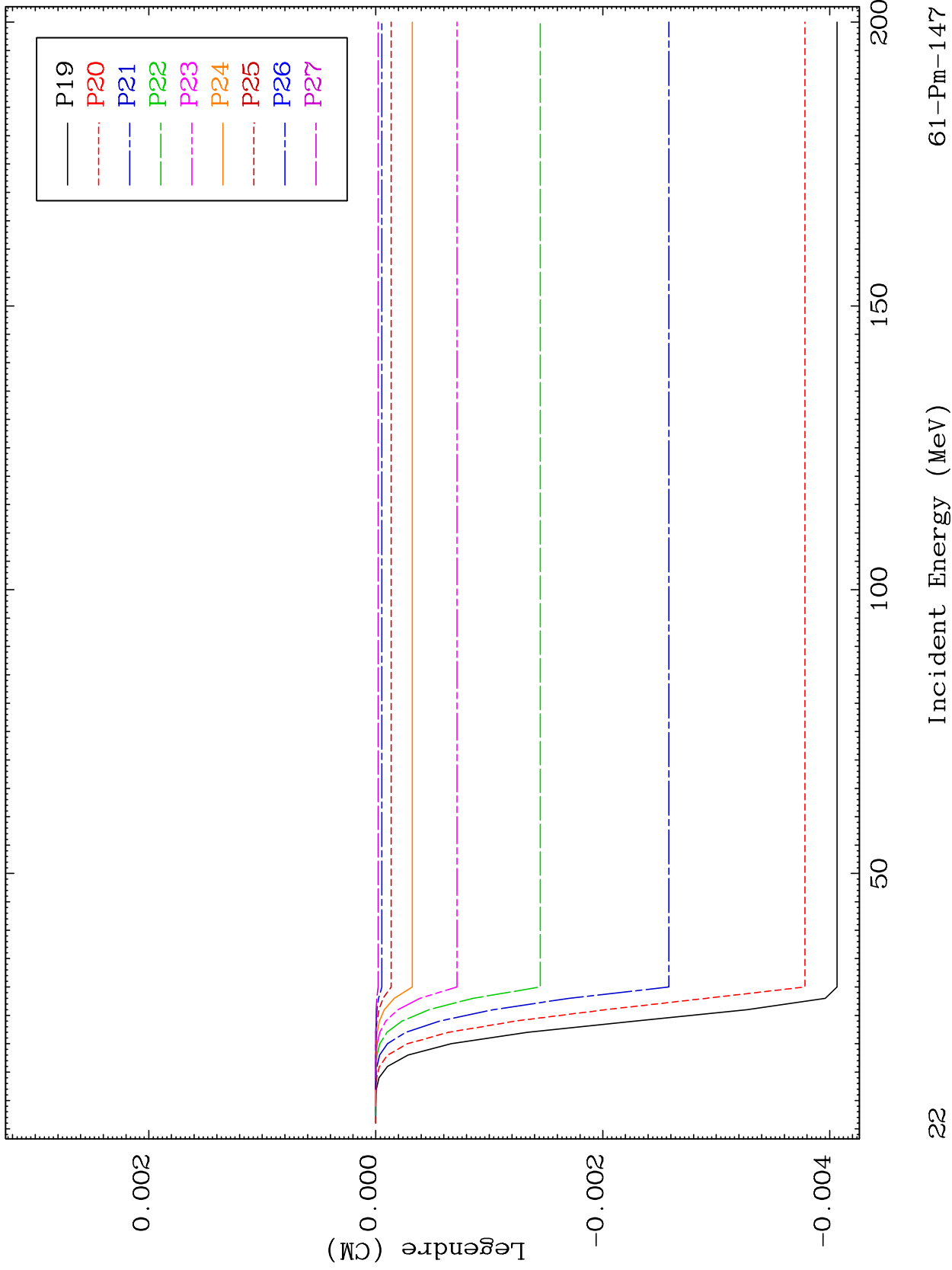




MAT 6149

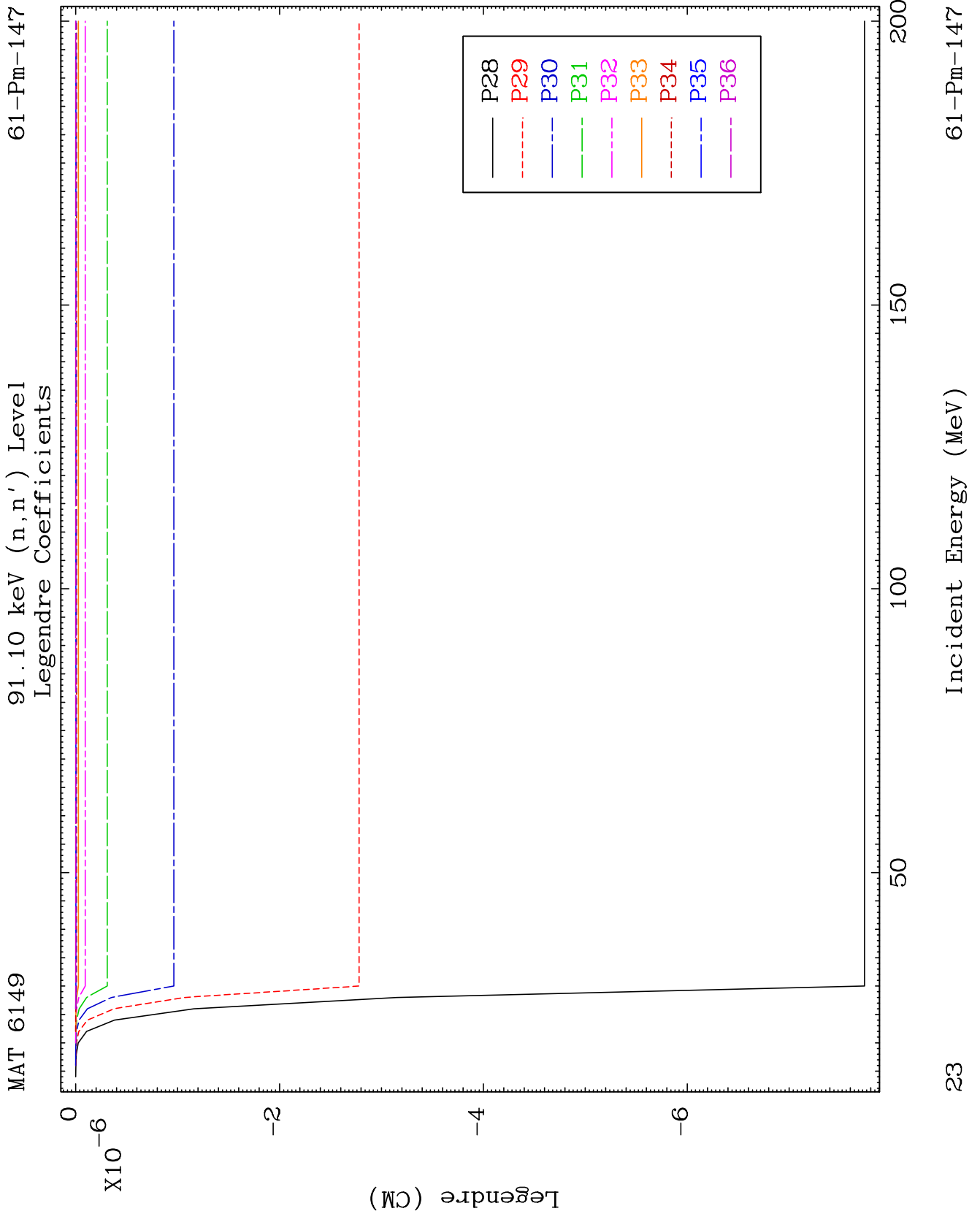
91.10 keV (n,n') Level  
Legendre Coefficients

61-Pm-147



22

61-Pm-147

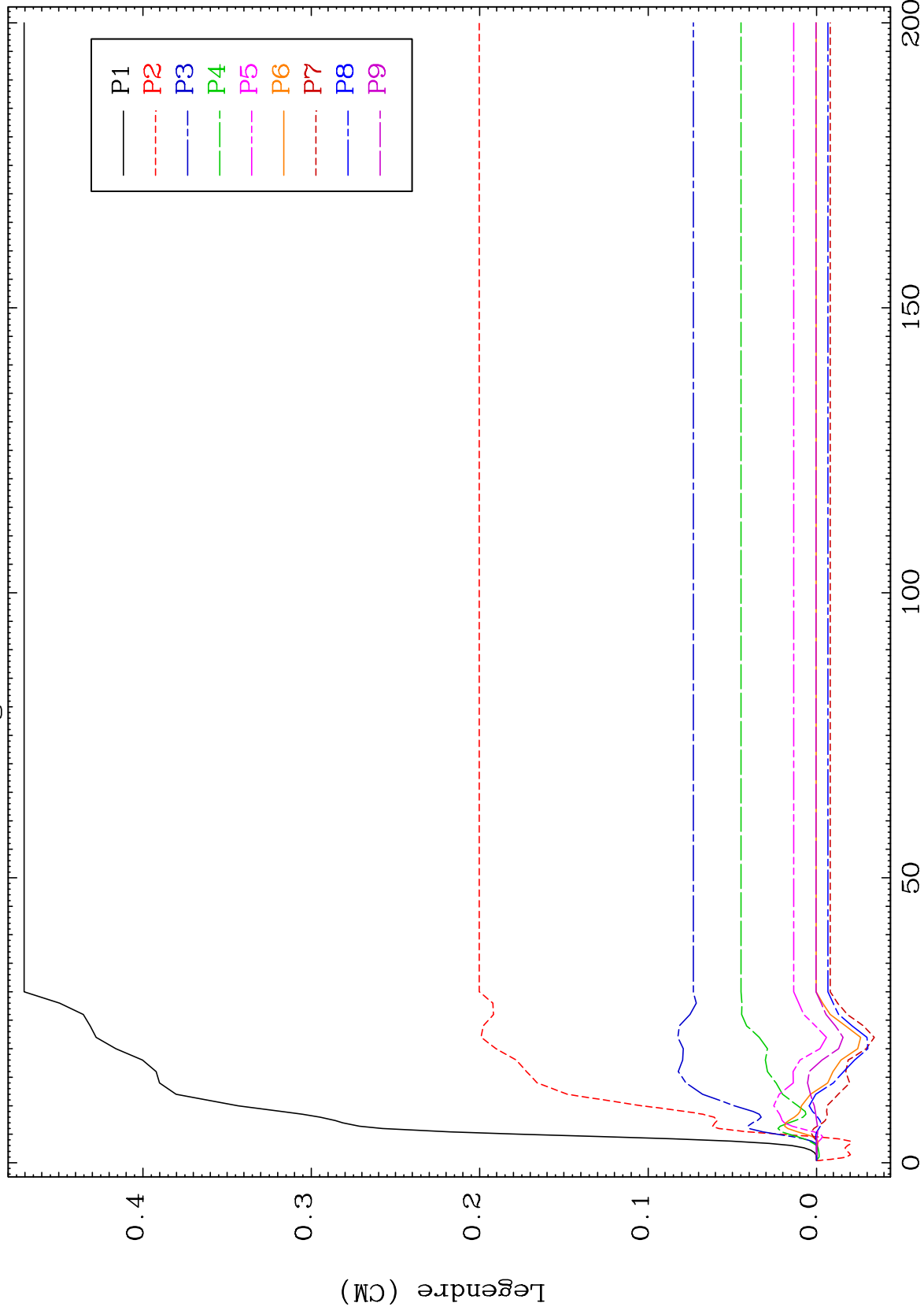




MAT 6149

350.0 keV (n,n') Level  
Legendre Coefficients

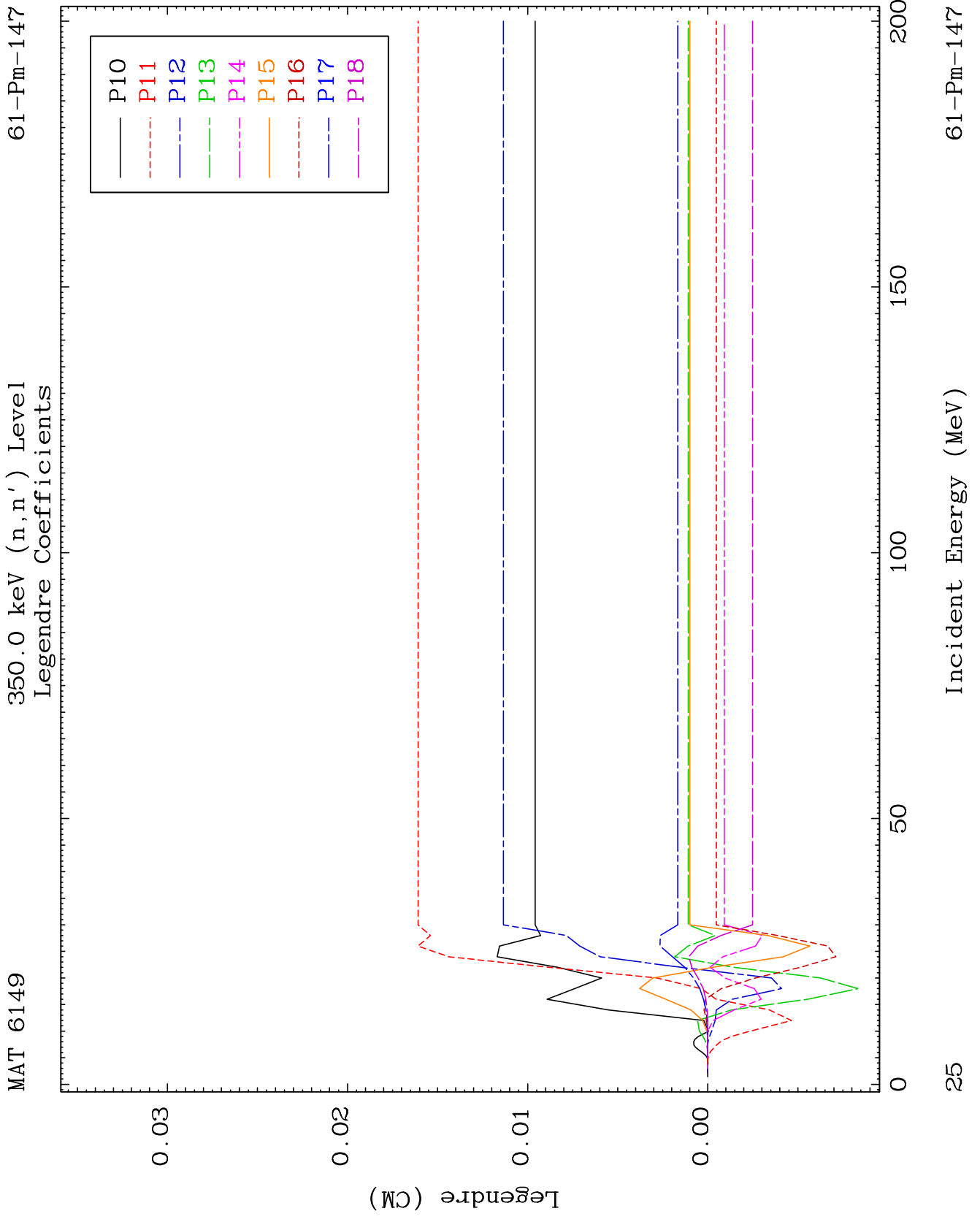
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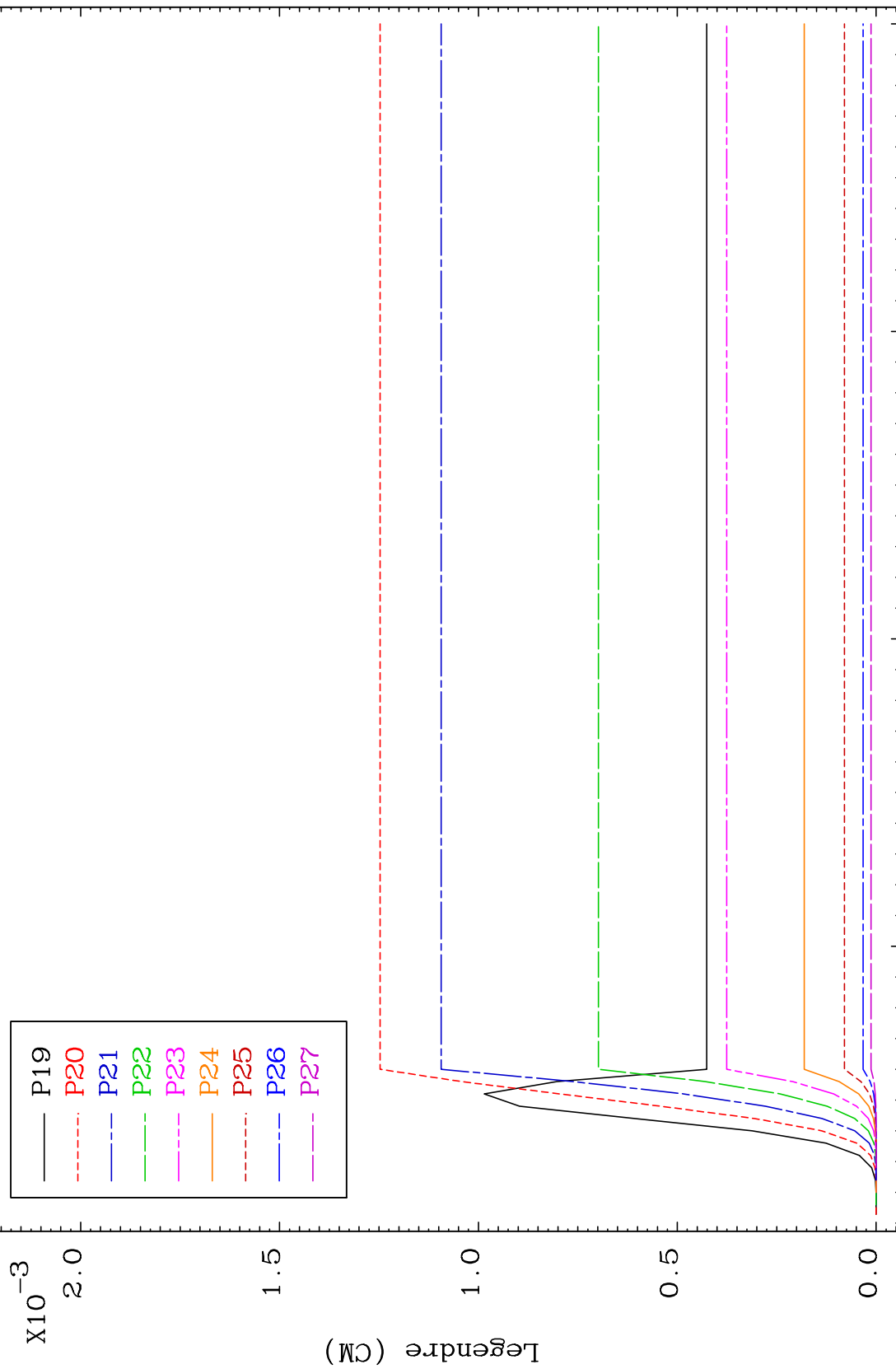
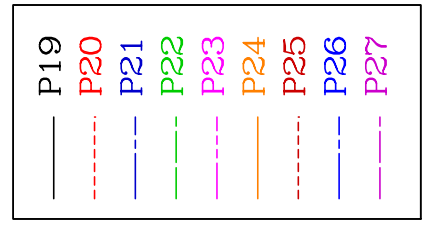


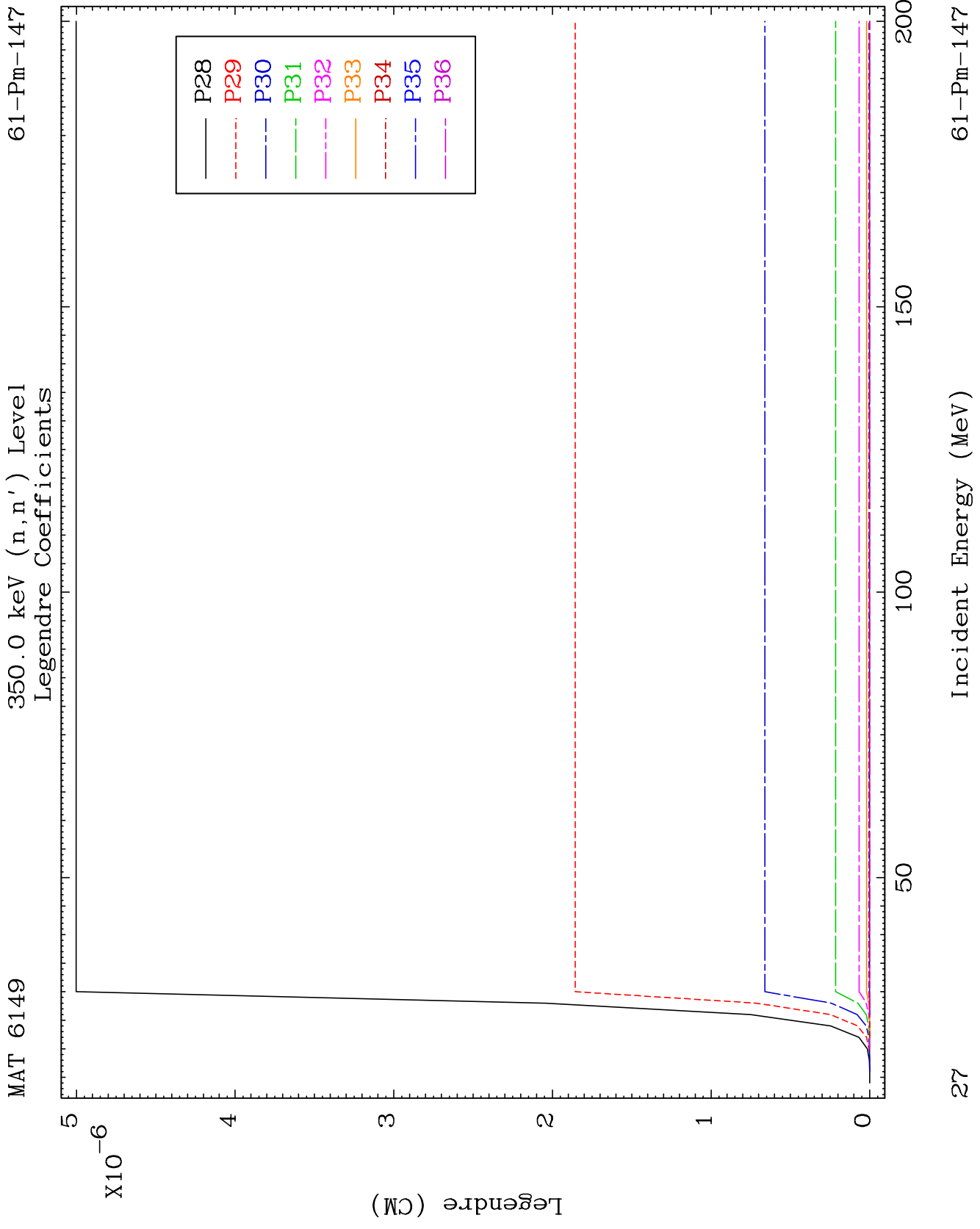
24

Incident Energy (MeV)

61-Pm-147



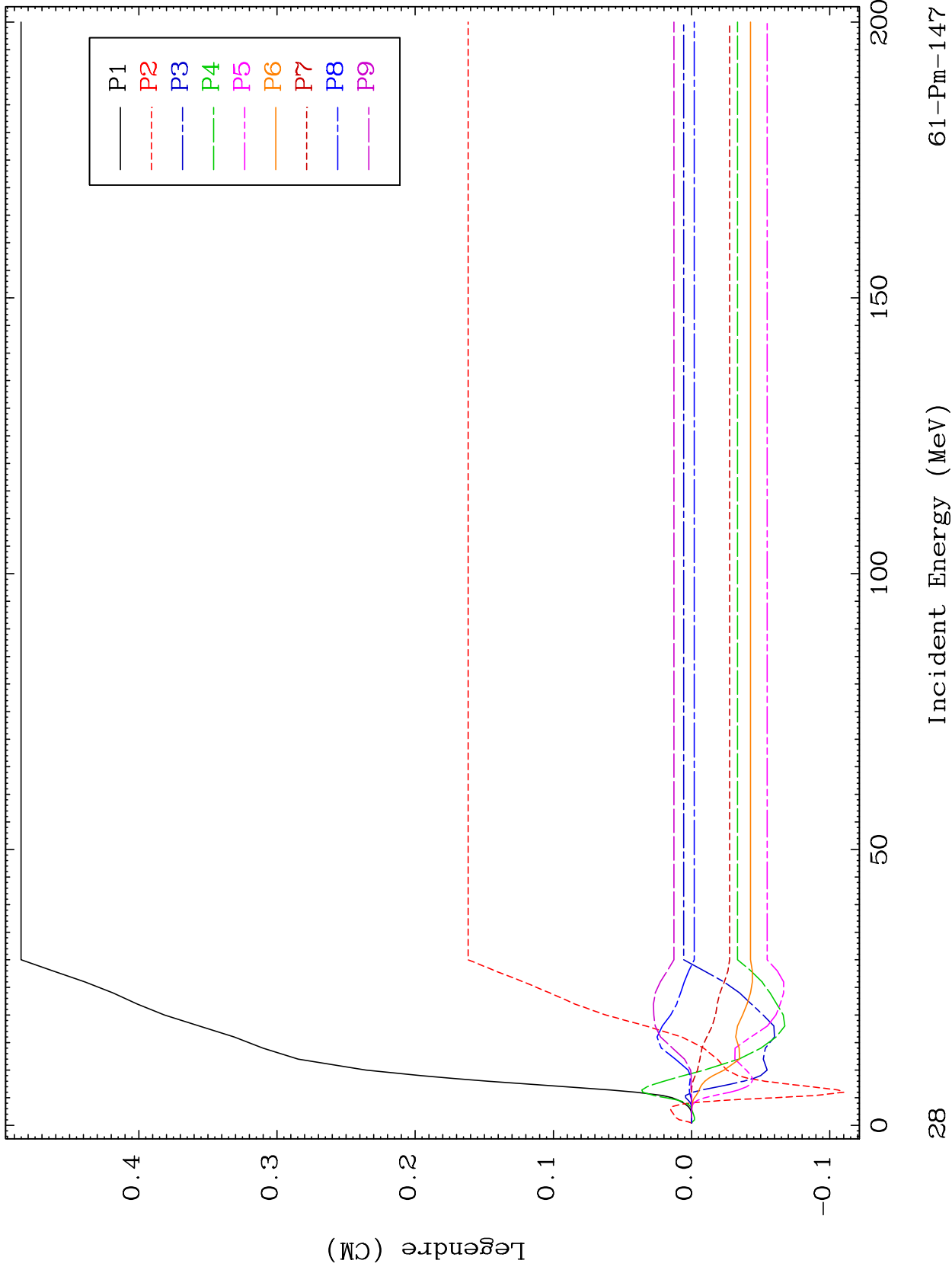




MAT 6149

380.0 keV (n,n') Level  
Legendre Coefficients

61-Pm-147



61-Pm-147

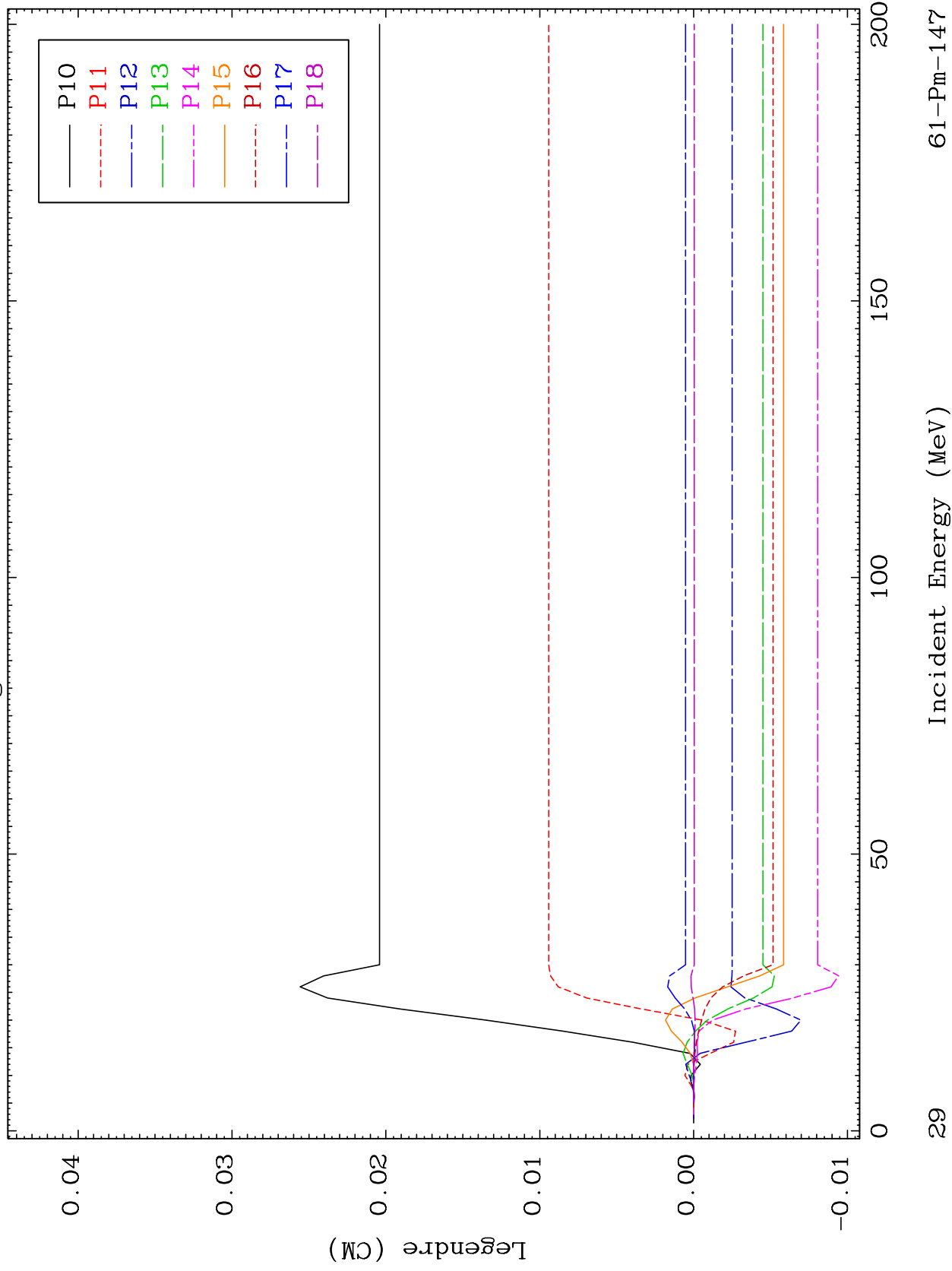
Incident Energy (MeV)

28

MAT 6149

380.0 keV (n,n') Level  
Legendre Coefficients

61-Pm-147



29

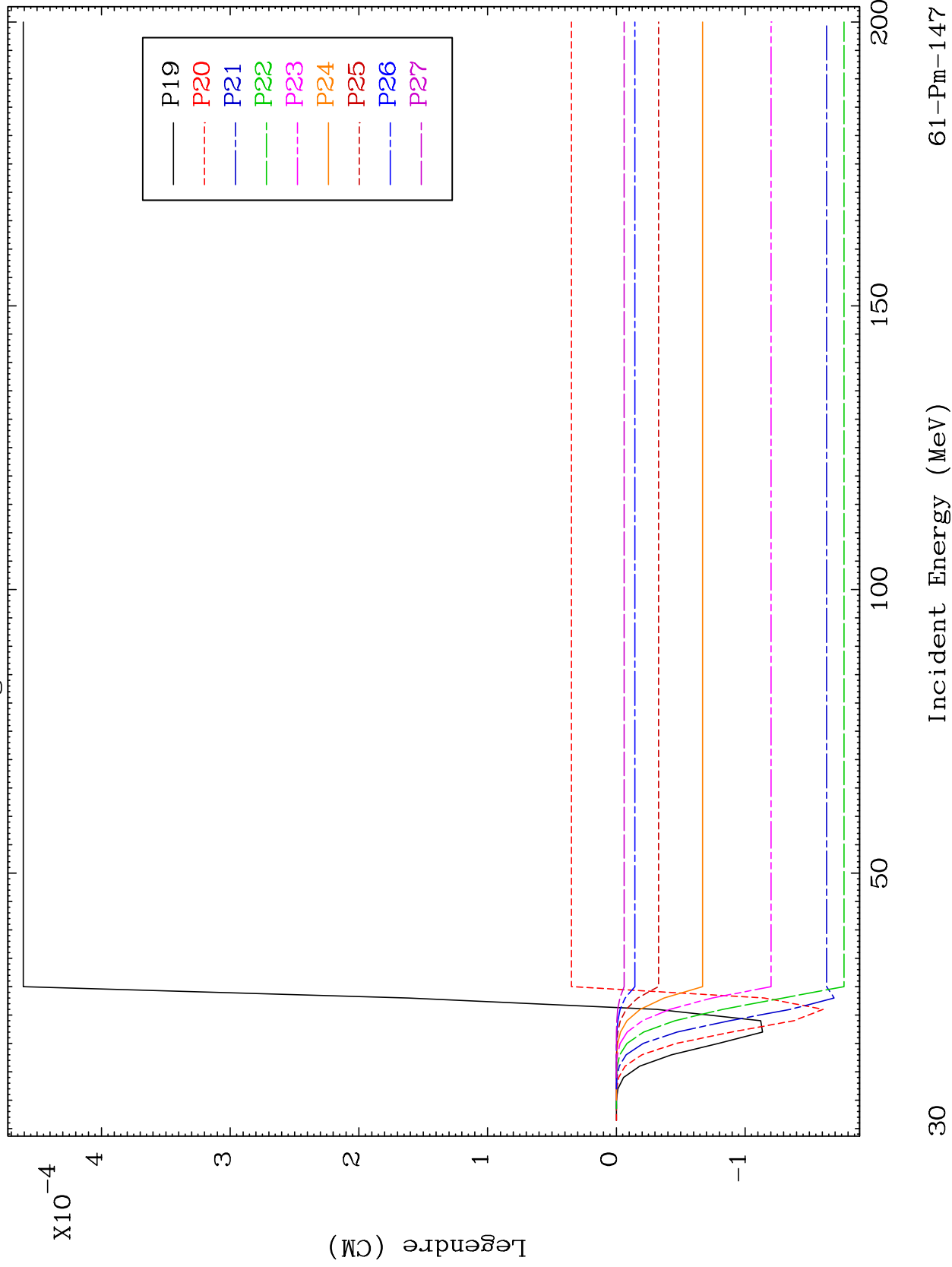
Incident Energy (MeV)

61-Pm-147

MAT 6149

380.0 keV (n,n') Level  
Legendre Coefficients

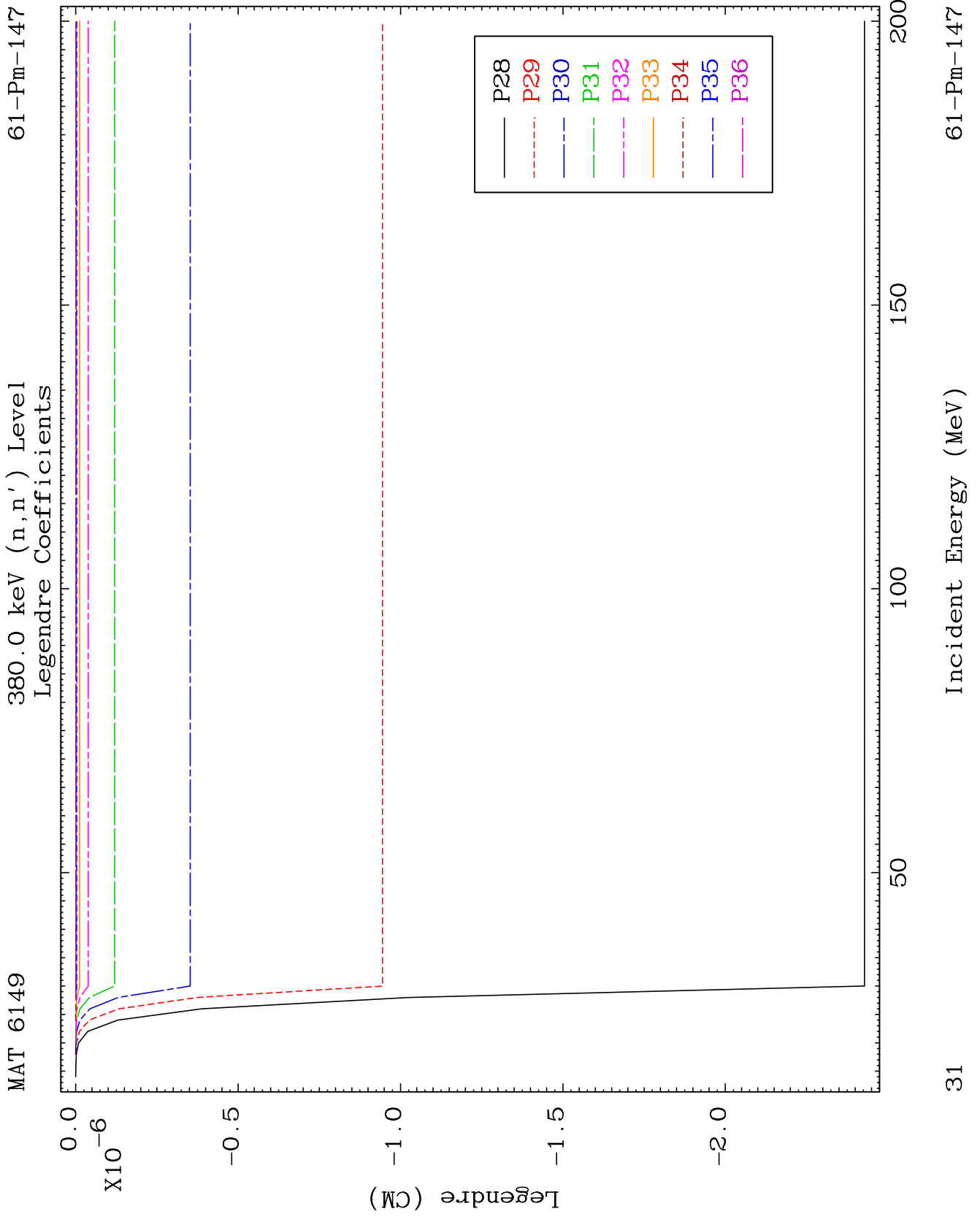
61-Pm-147



30

Incident Energy (MeV)

61-Pm-147

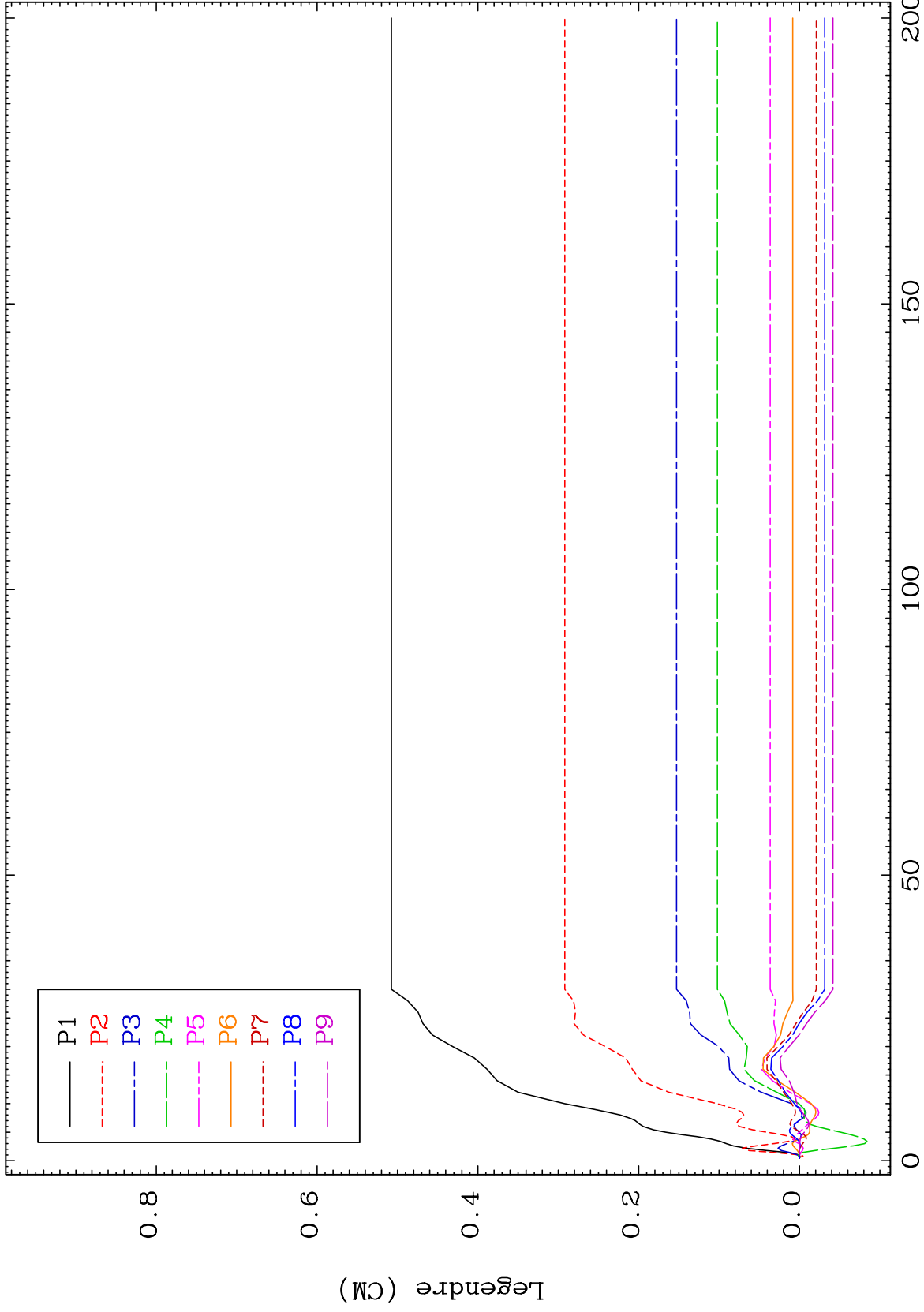




MAT 6149

408.3 keV (n,n') Level  
Legendre Coefficients

61-Pm-147



32

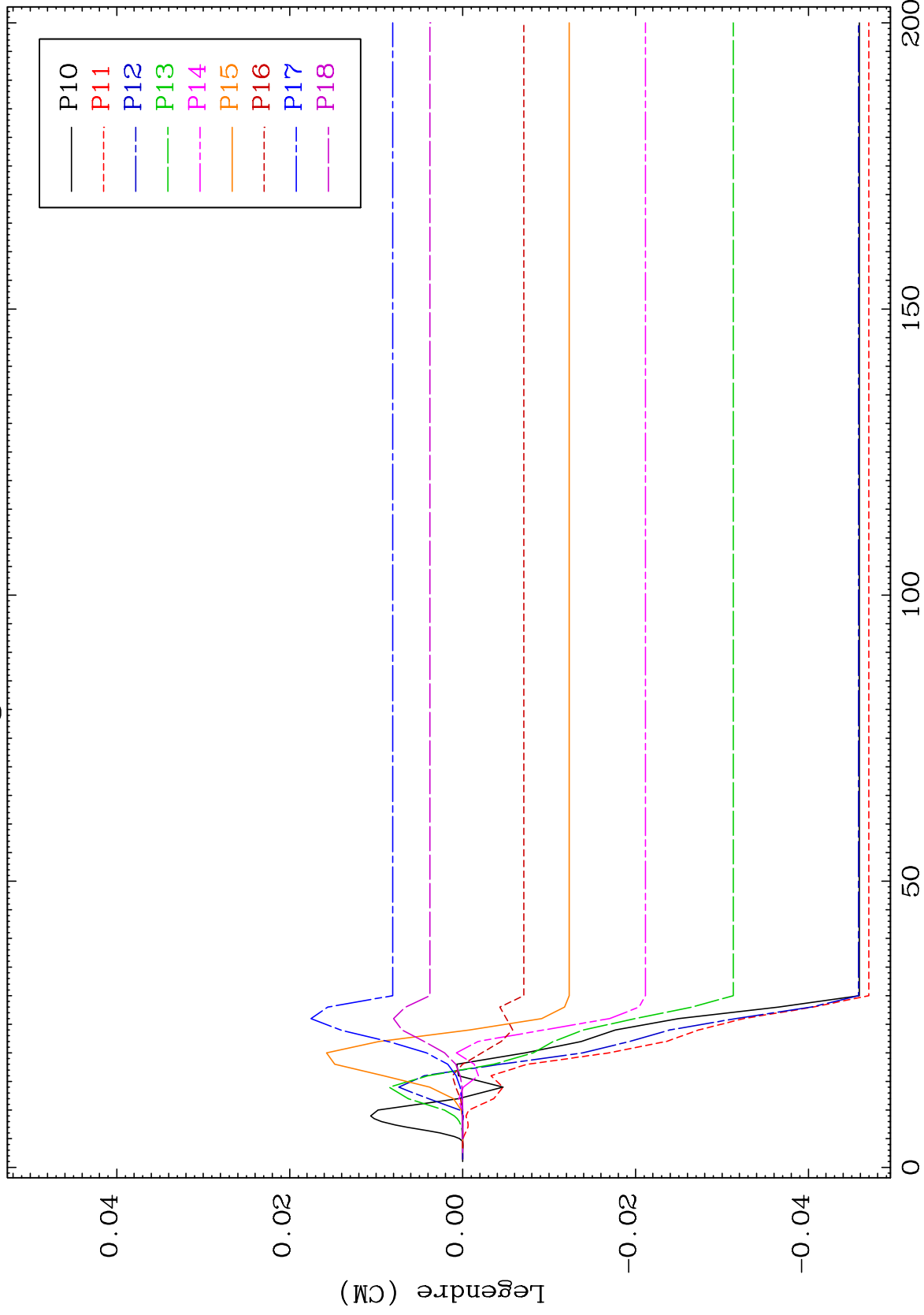
Incident Energy (MeV)

61-Pm-147

MAT 6149

408.3 keV (n,n') Level  
Legendre Coefficients

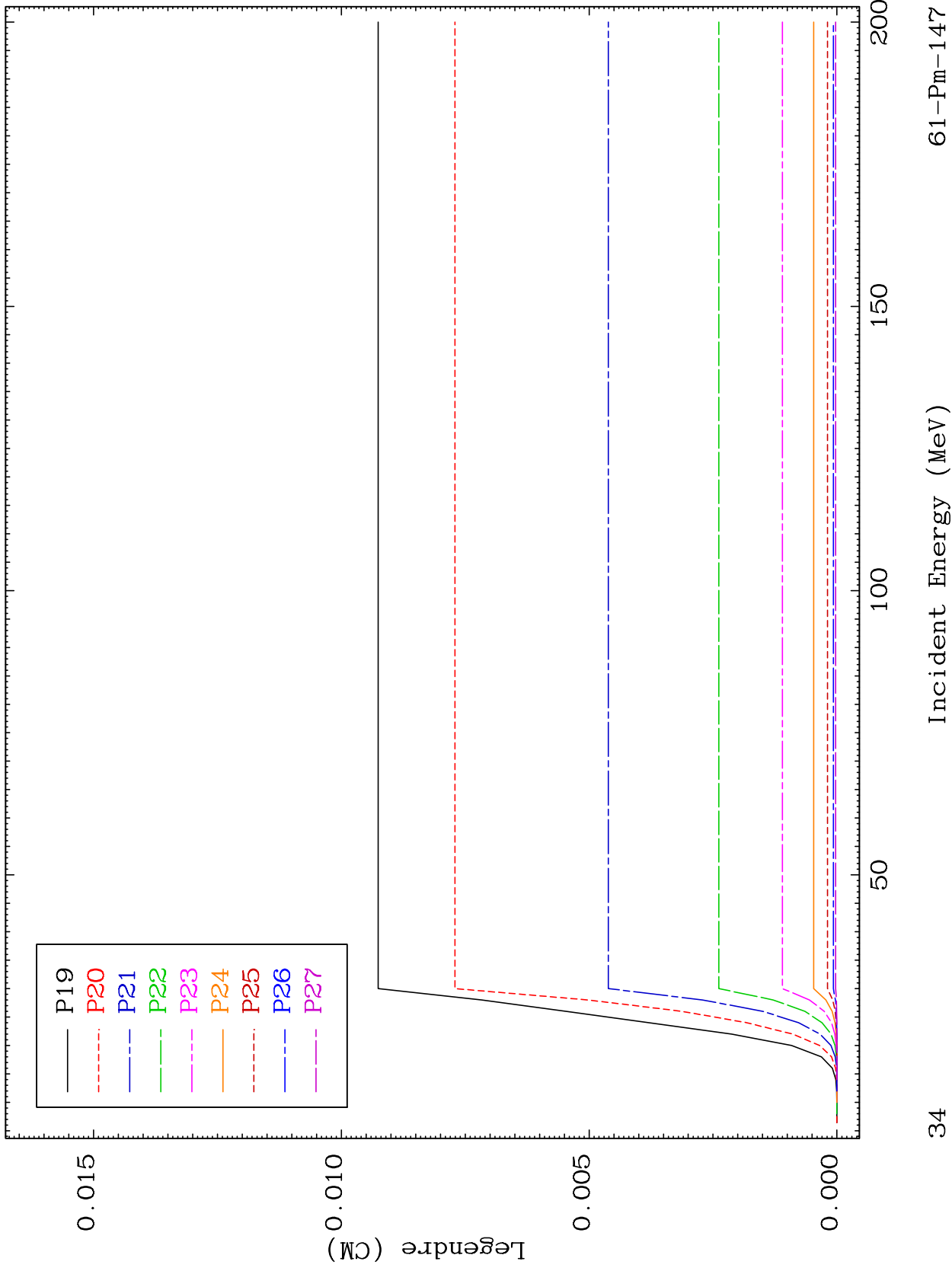
61-Pm-147



33

Incident Energy (MeV)

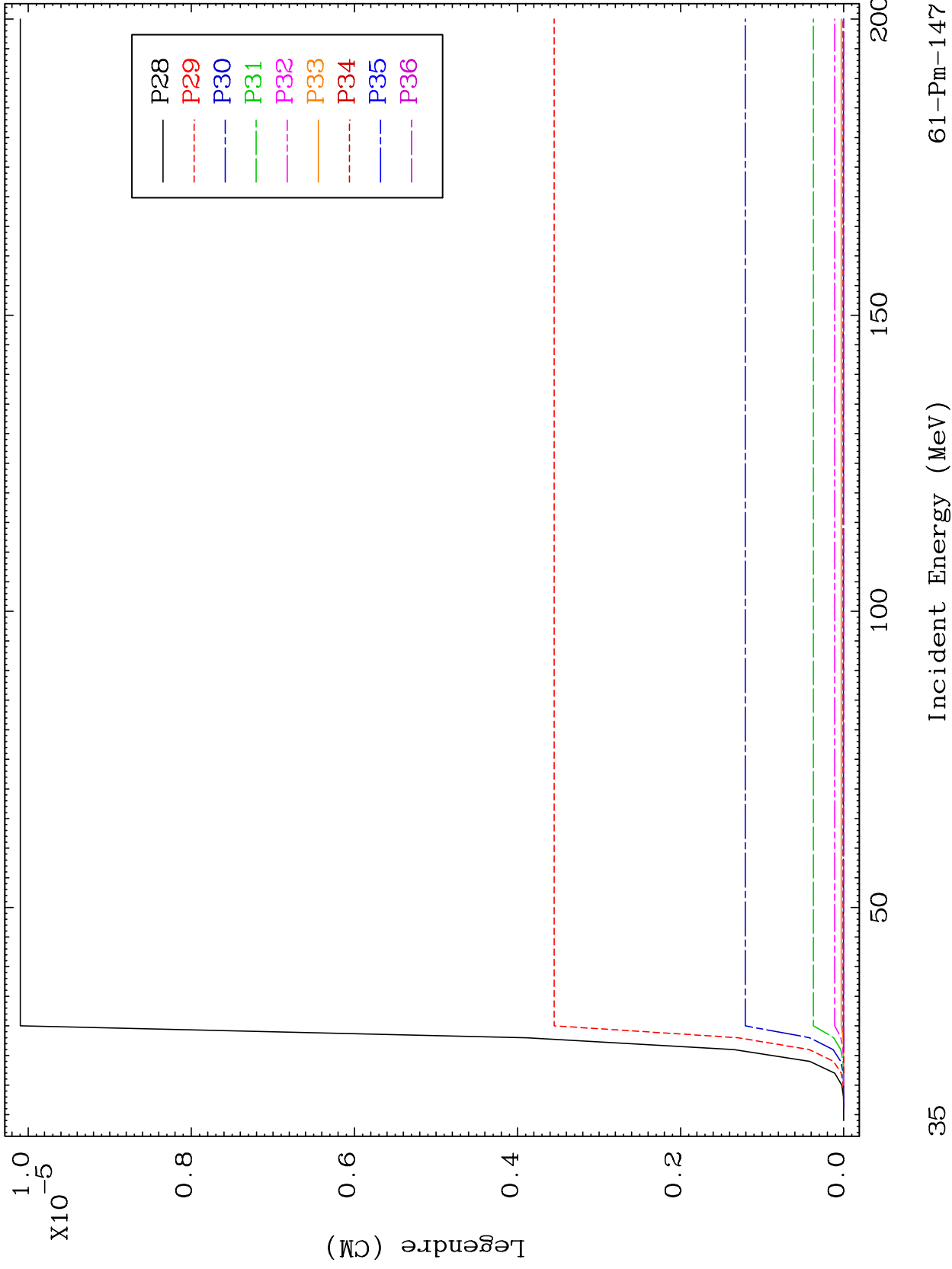
61-Pm-147



MAT 6149

408.3 keV (n, n') Level  
Legendre Coefficients

61-Pm-147



35

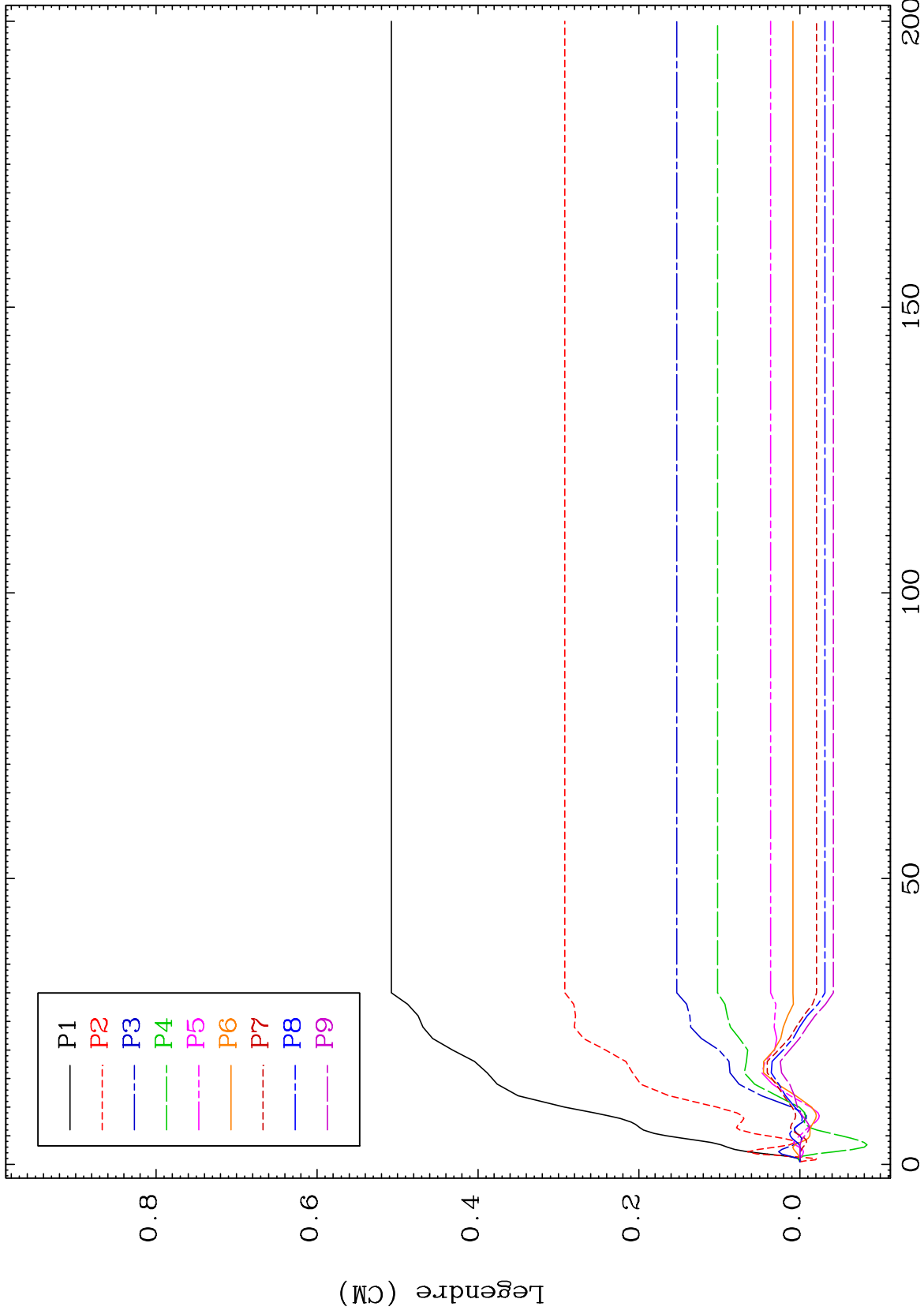
Incident Energy (MeV)

61-Pm-147

MAT 6149

410.5 keV (n,n') Level  
Legendre Coefficients

61-Pm-147

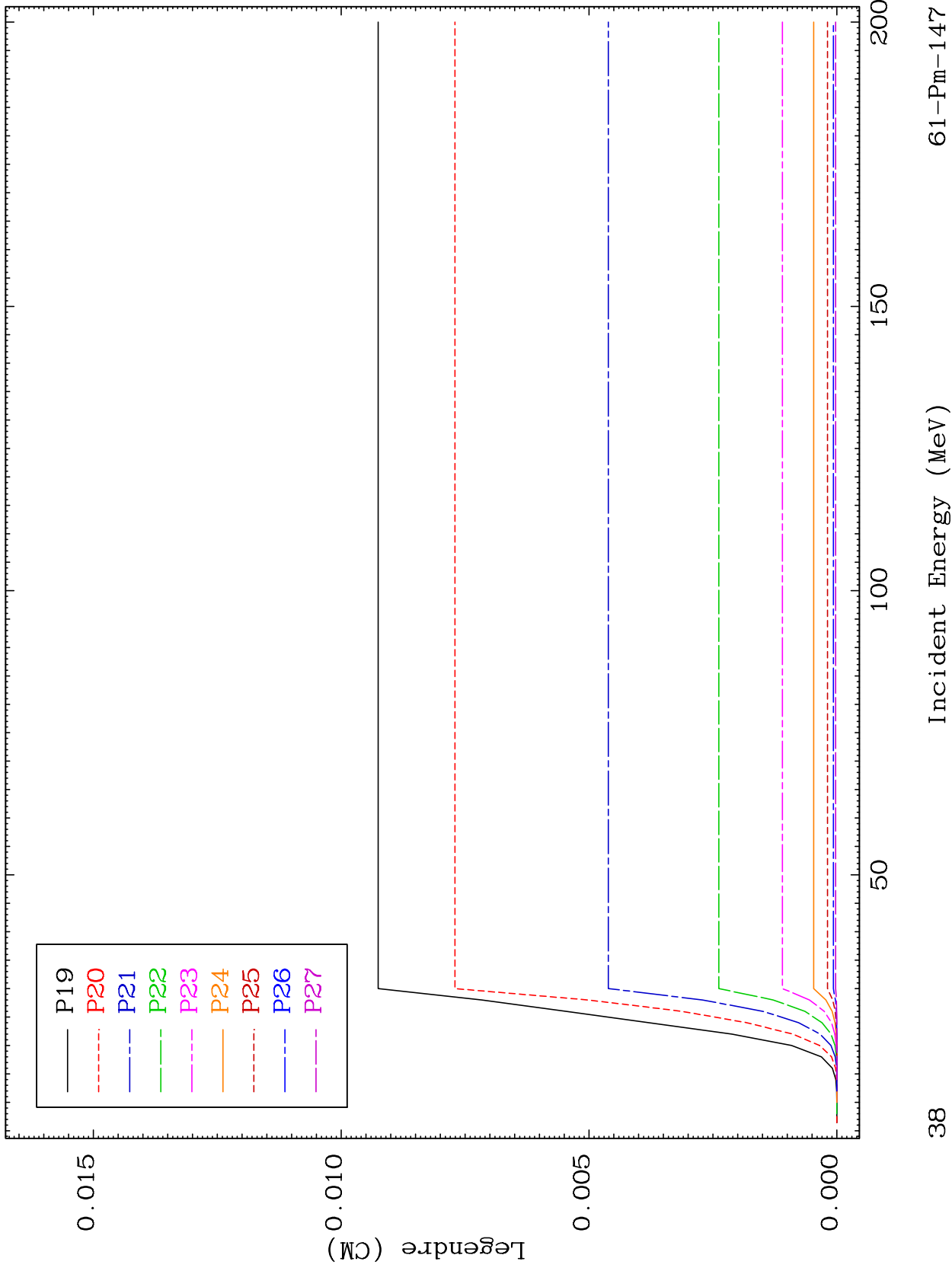


61-Pm-147

Incident Energy (MeV)

36

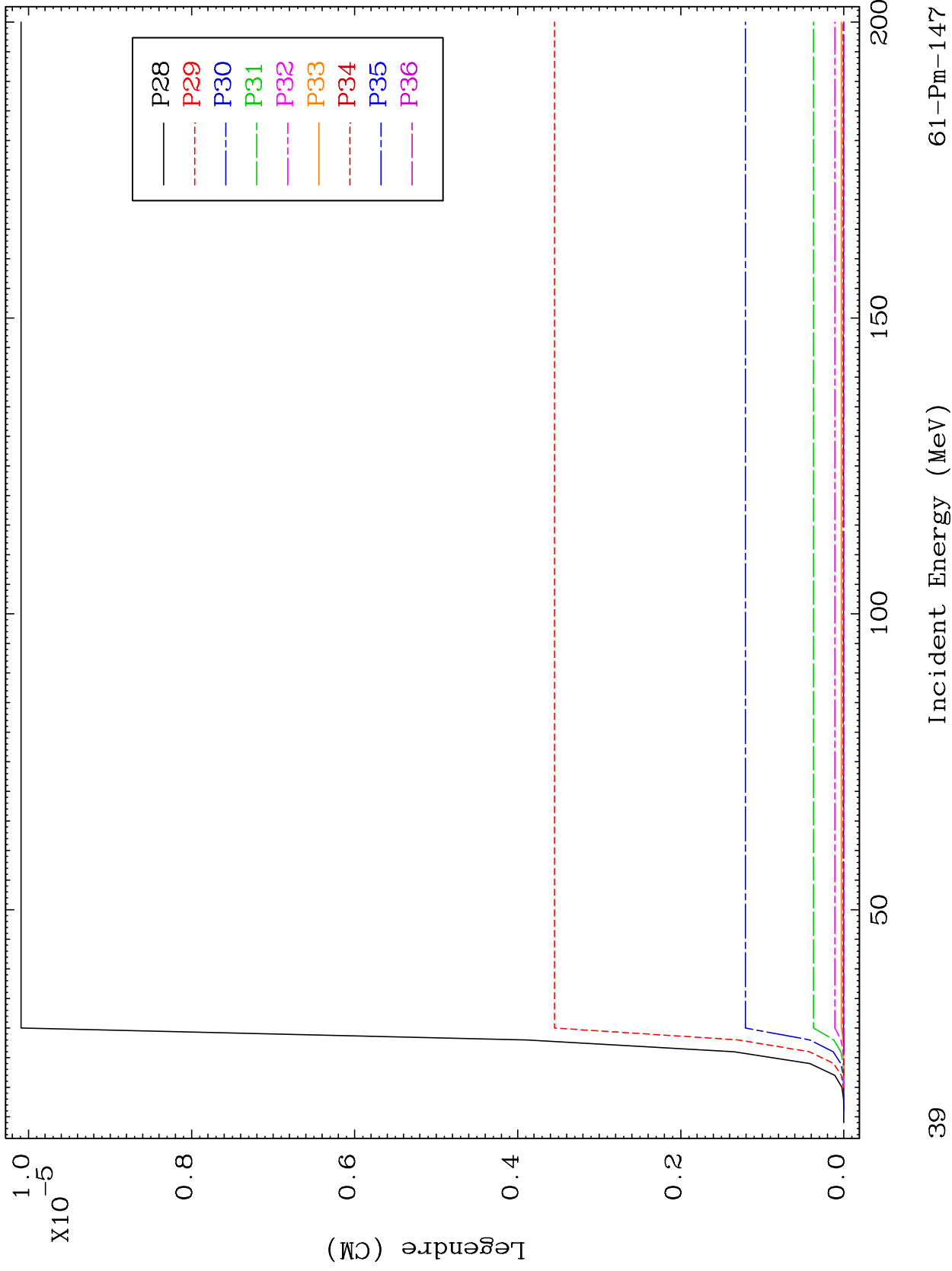




MAT 6149

410.5 keV (n, n') Level  
Legendre Coefficients

61-Pm-147



39

Incident Energy (MeV)

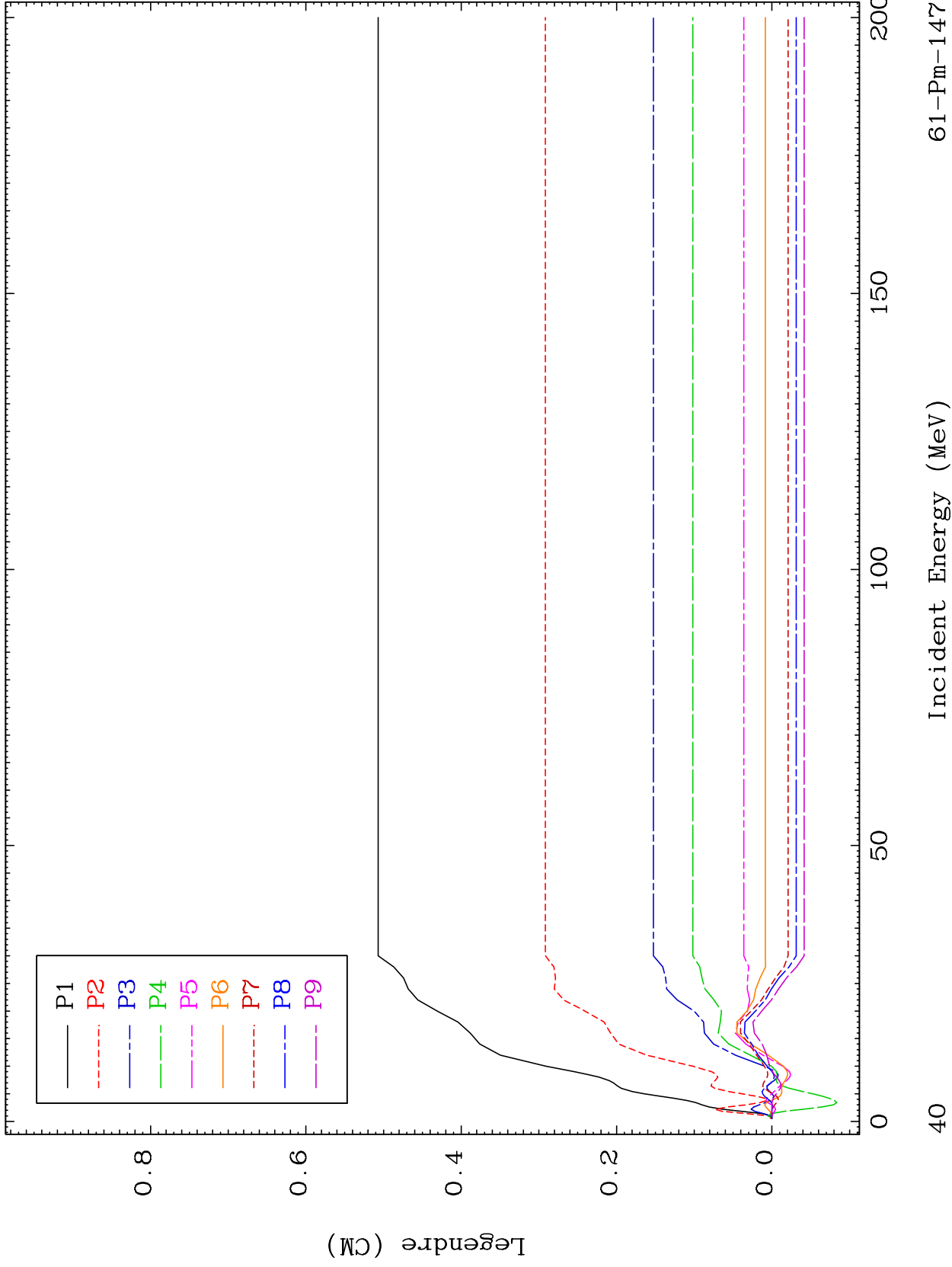
61-Pm-147



MAT 6149

489.3 keV (n,n') Level  
Legendre Coefficients

61-Pm-147



61-Pm-147

Incident Energy (MeV)

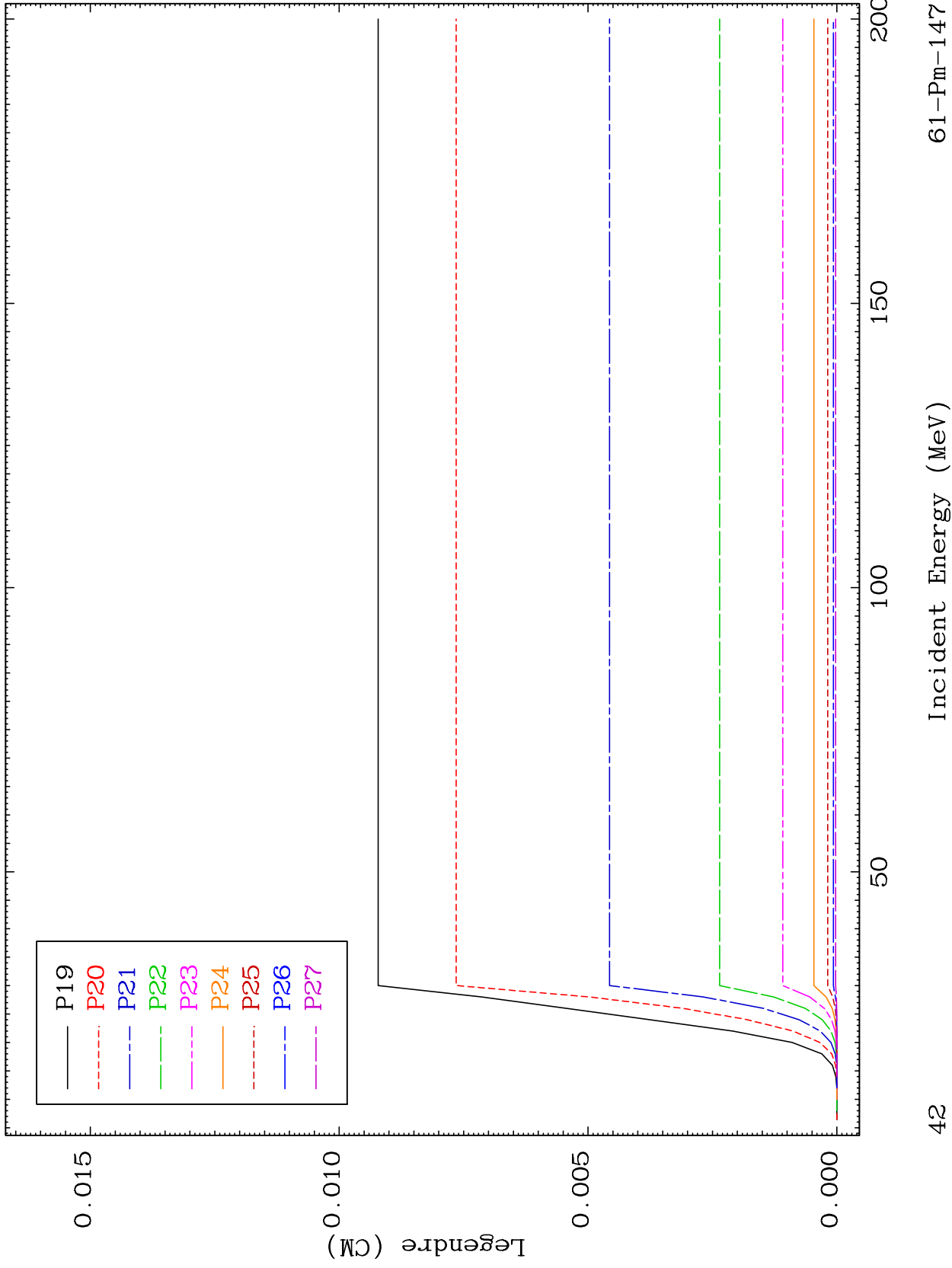
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MAT 6149

489.3 keV (n,n') Level  
Legendre Coefficients

61-Pm-147



42

Incident Energy (MeV)

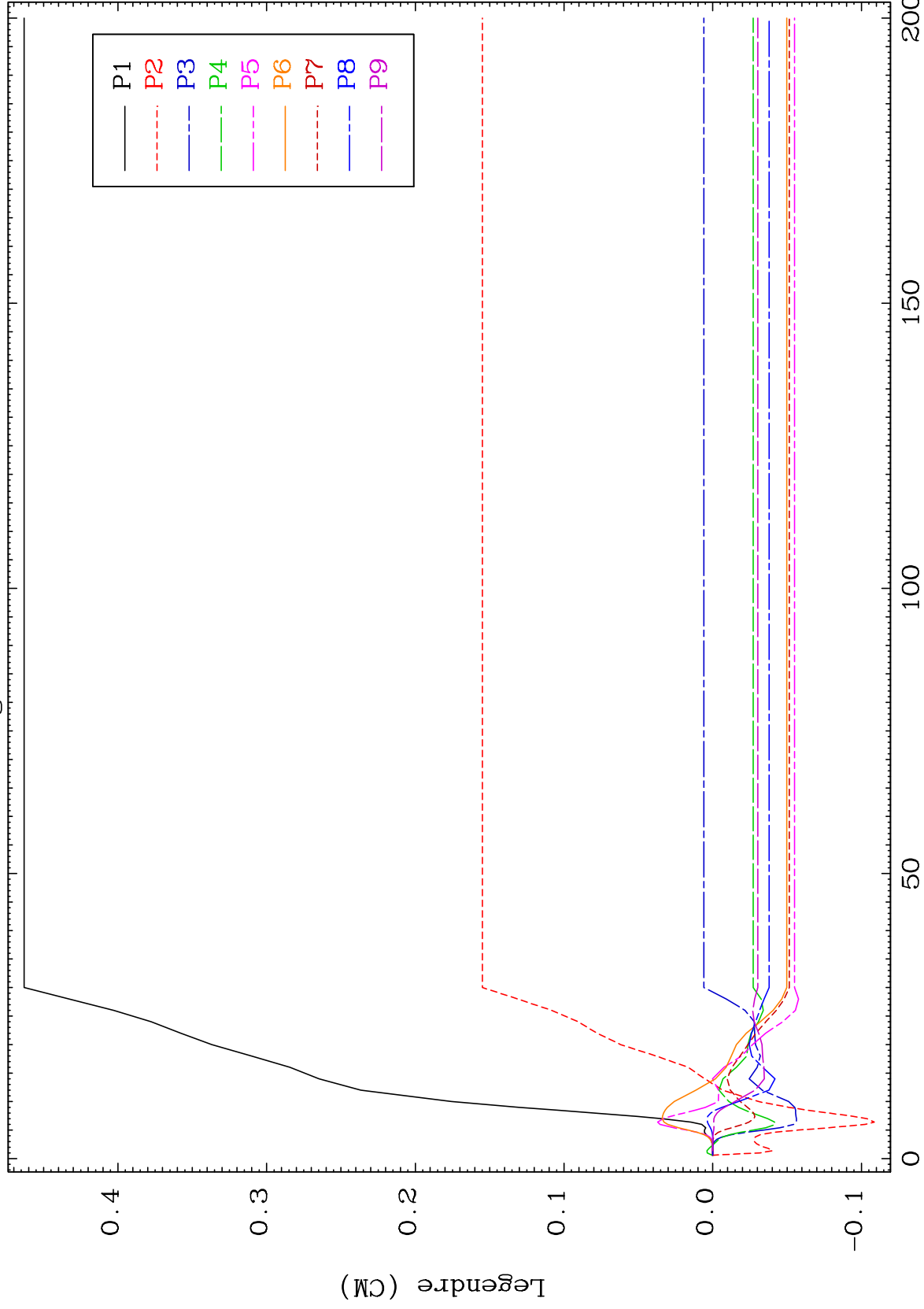
61-Pm-147



MAT 6149

500.0 keV (n,n') Level  
Legendre Coefficients

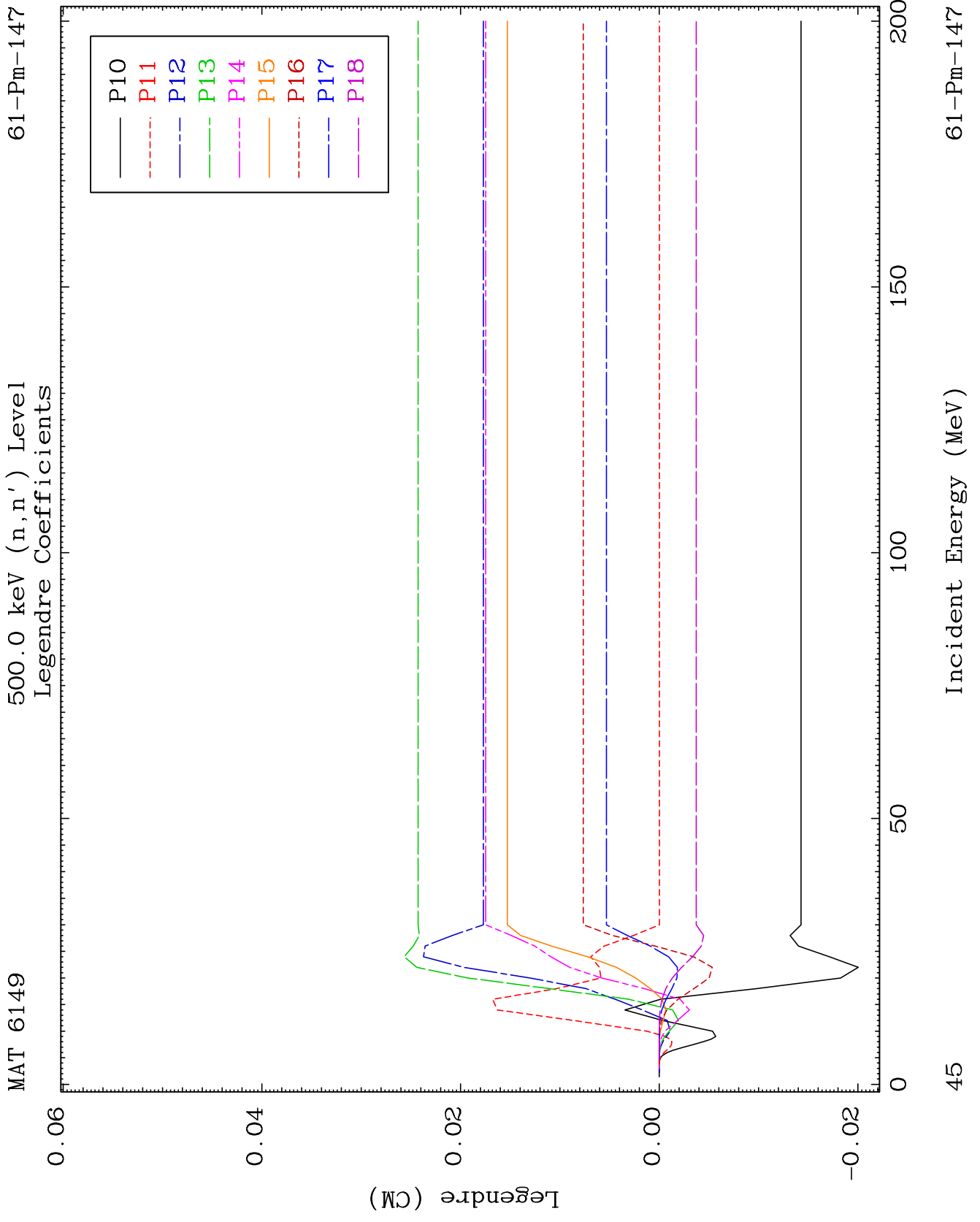
61-Pm-147



61-Pm-147

Incident Energy (MeV)

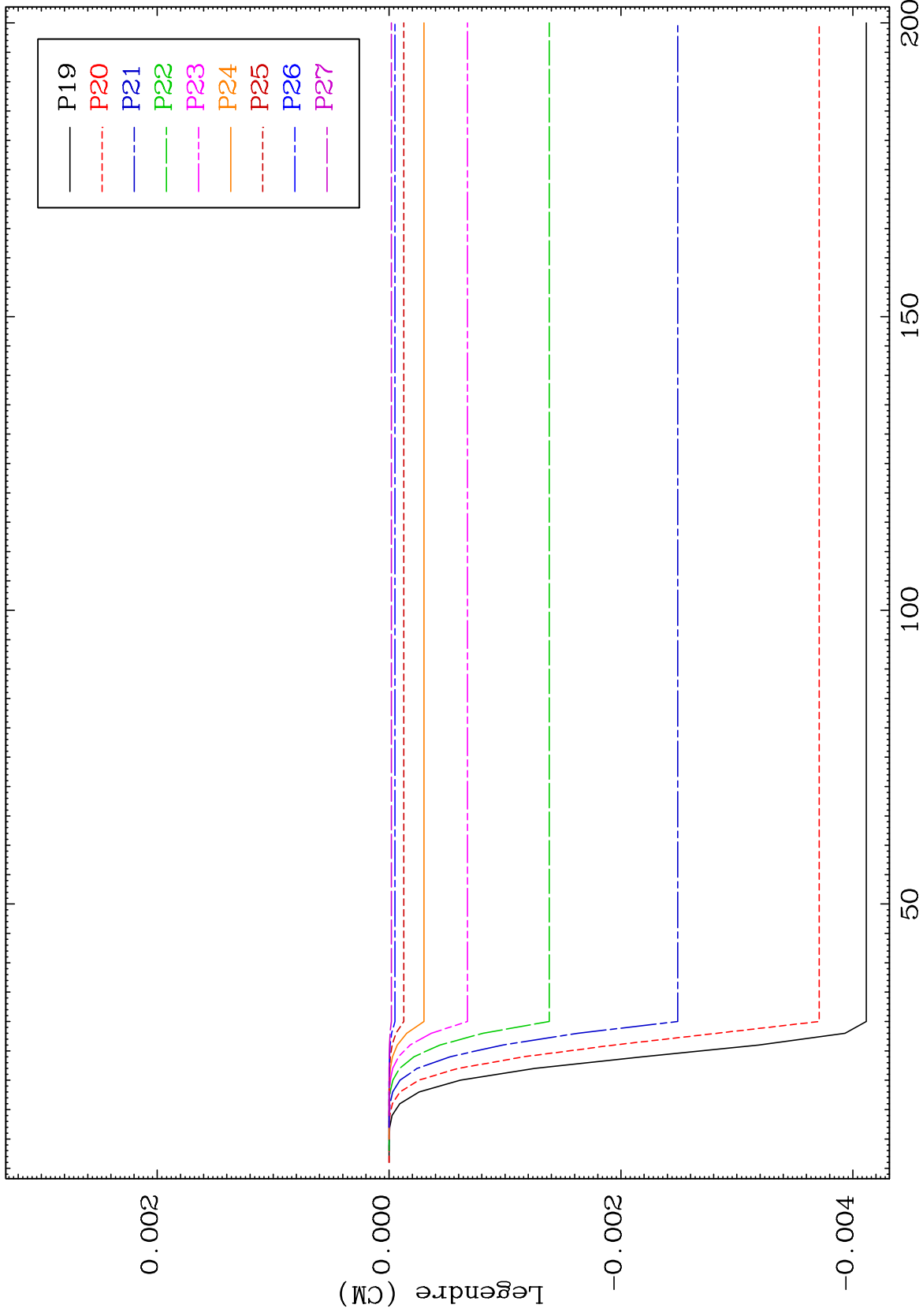
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MAT 6149

500.0 keV (n,n') Level  
Legendre Coefficients

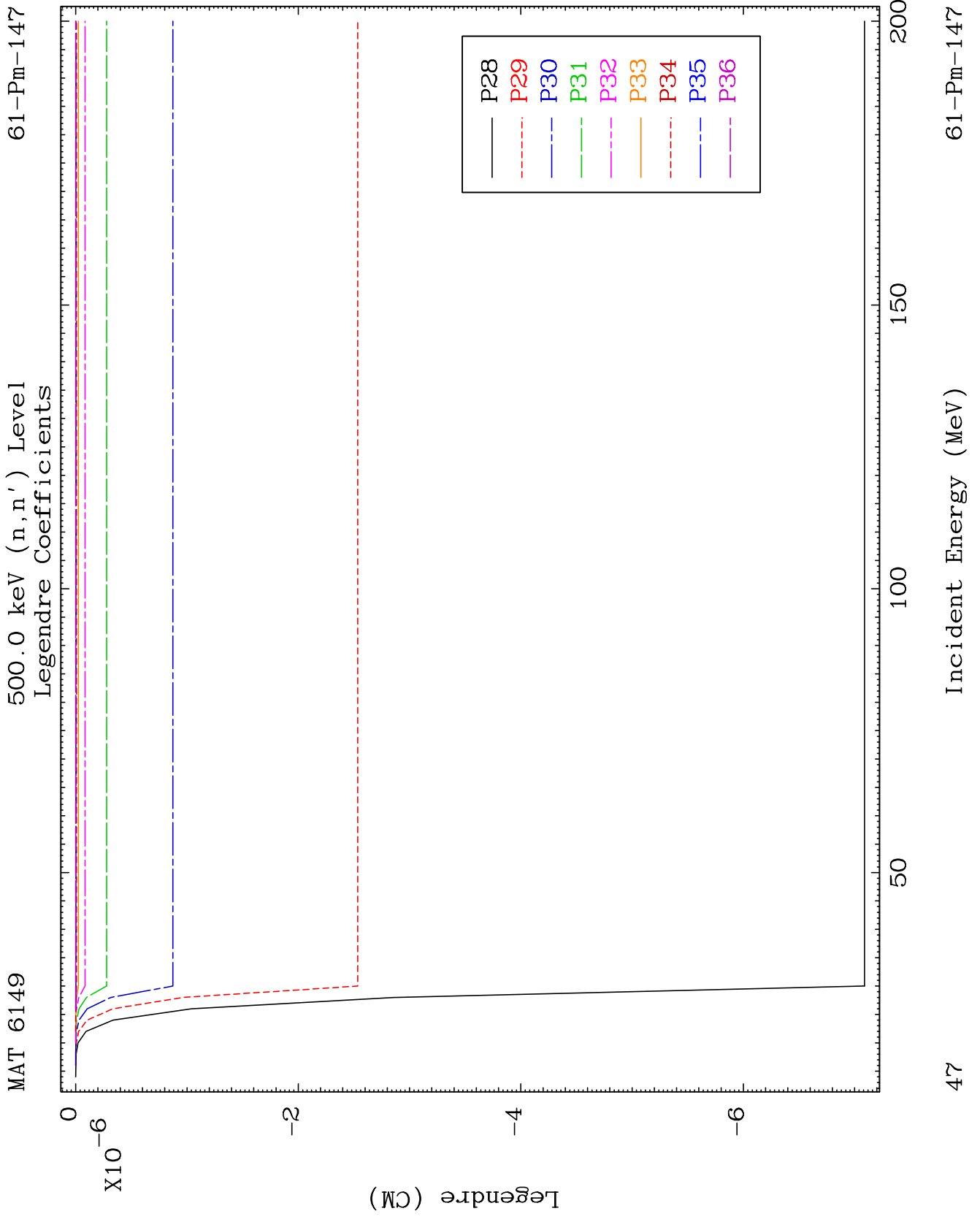
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46

Incident Energy (MeV)

61-Pm-147

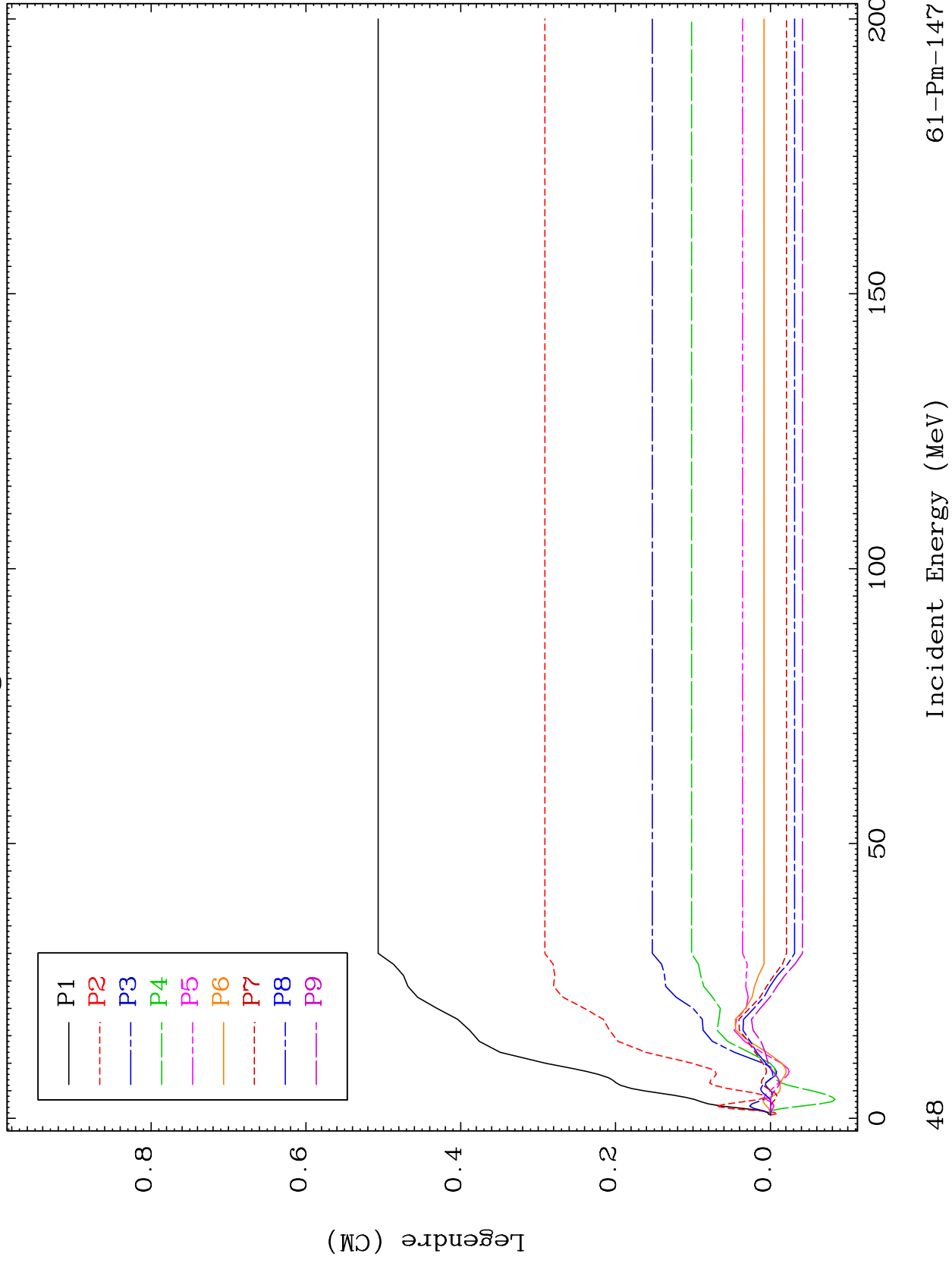




MAT 6149

531.0 keV (n,n') Level  
Legendre Coefficients

61-Pm-147



61-Pm-147

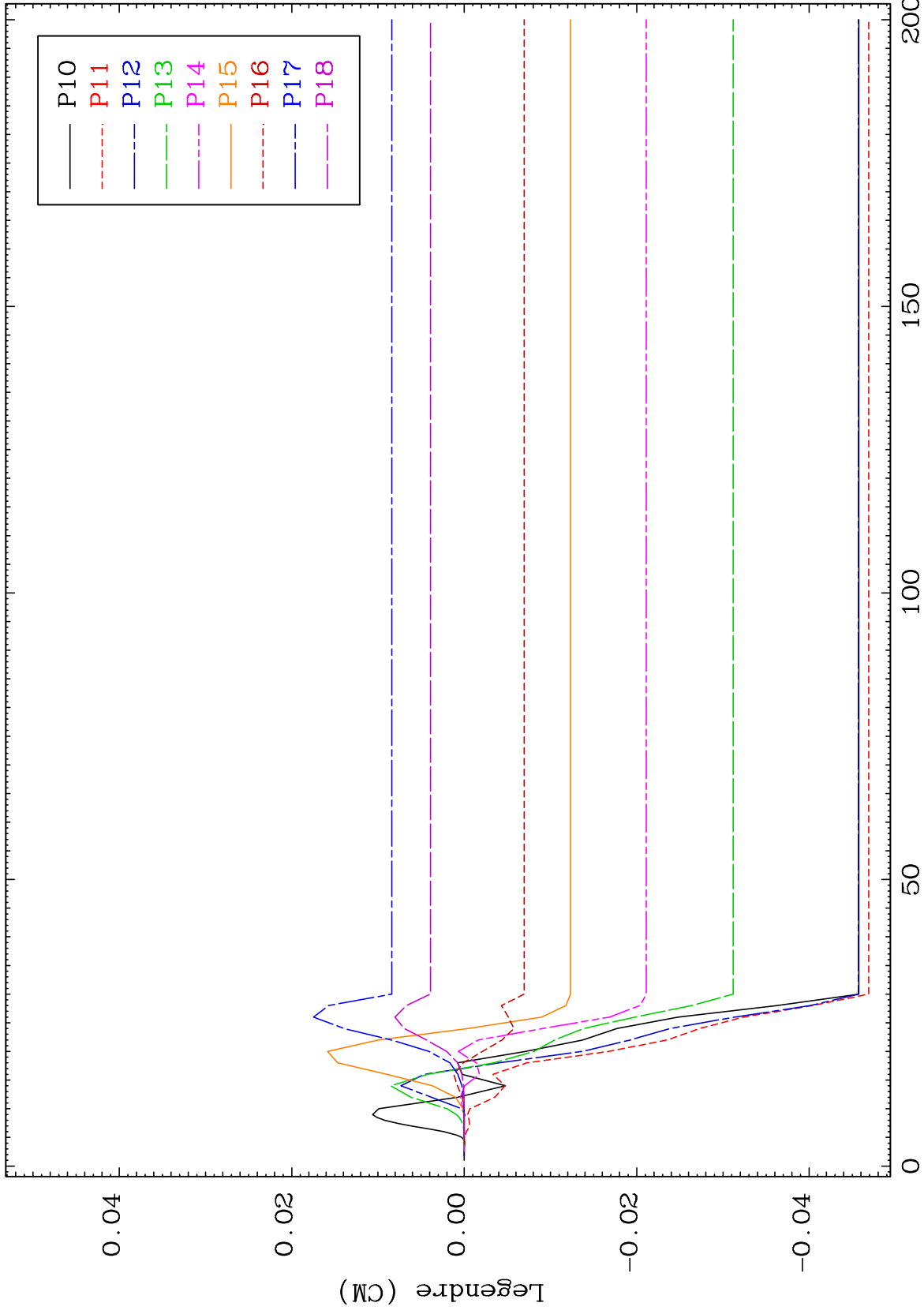
Incident Energy (MeV)

48

MAT 6149

531.0 keV (n,n') Level  
Legendre Coefficients

61-Pm-147



49

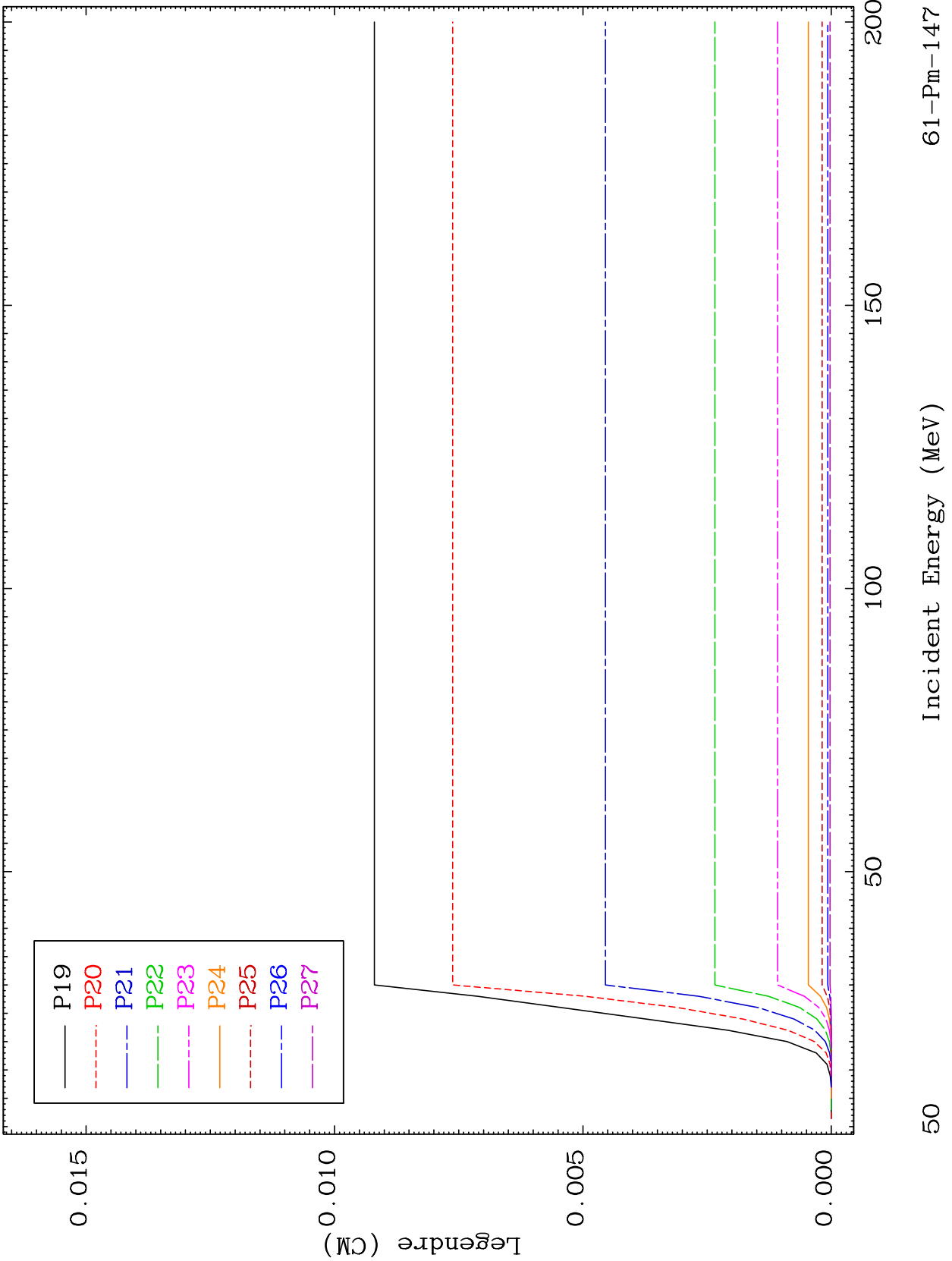
Incident Energy (MeV)

61-Pm-147

MAT 6149

531.0 keV (n,n') Level  
Legendre Coefficients

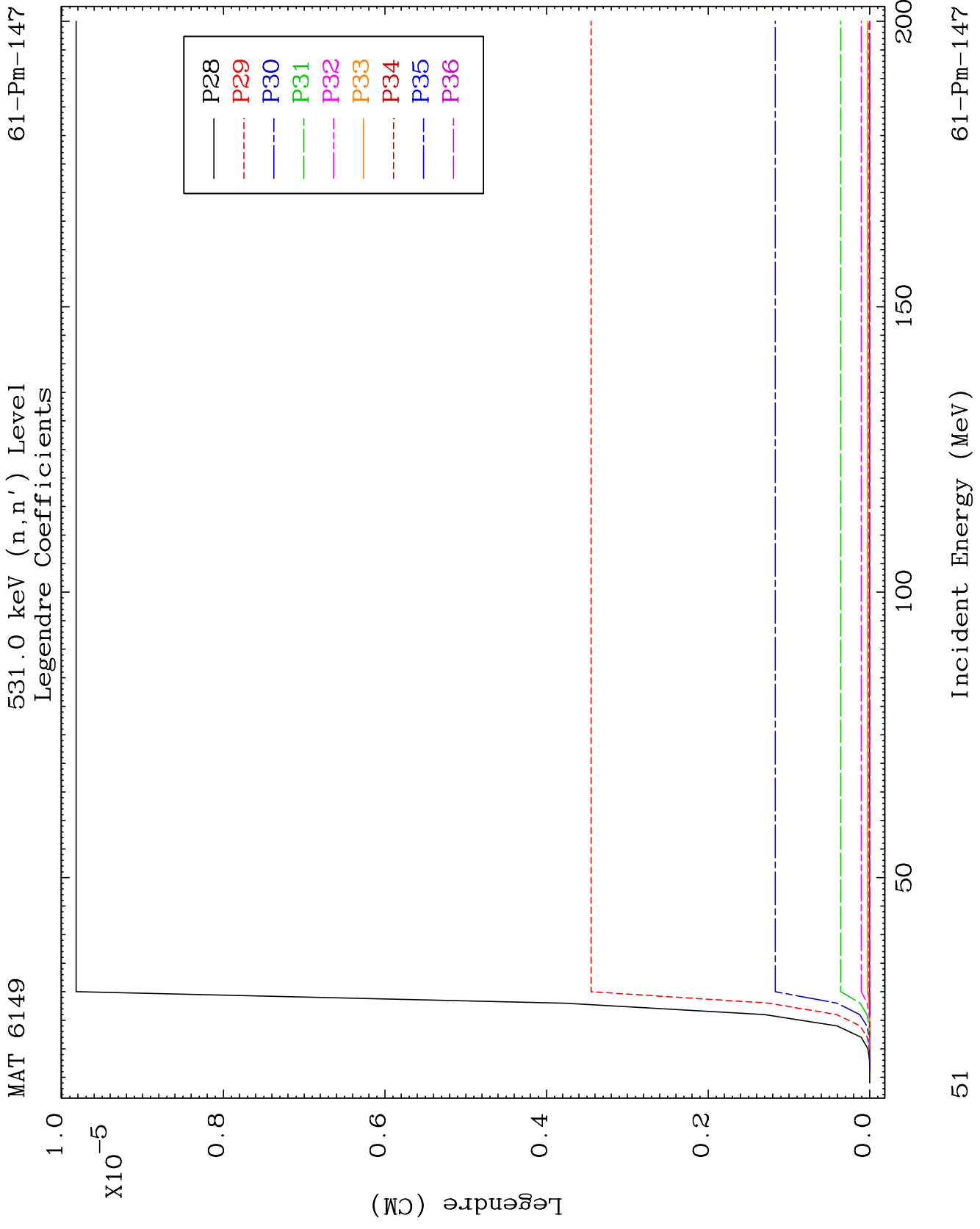
61-Pm-147



61-Pm-147

Incident Energy (MeV)

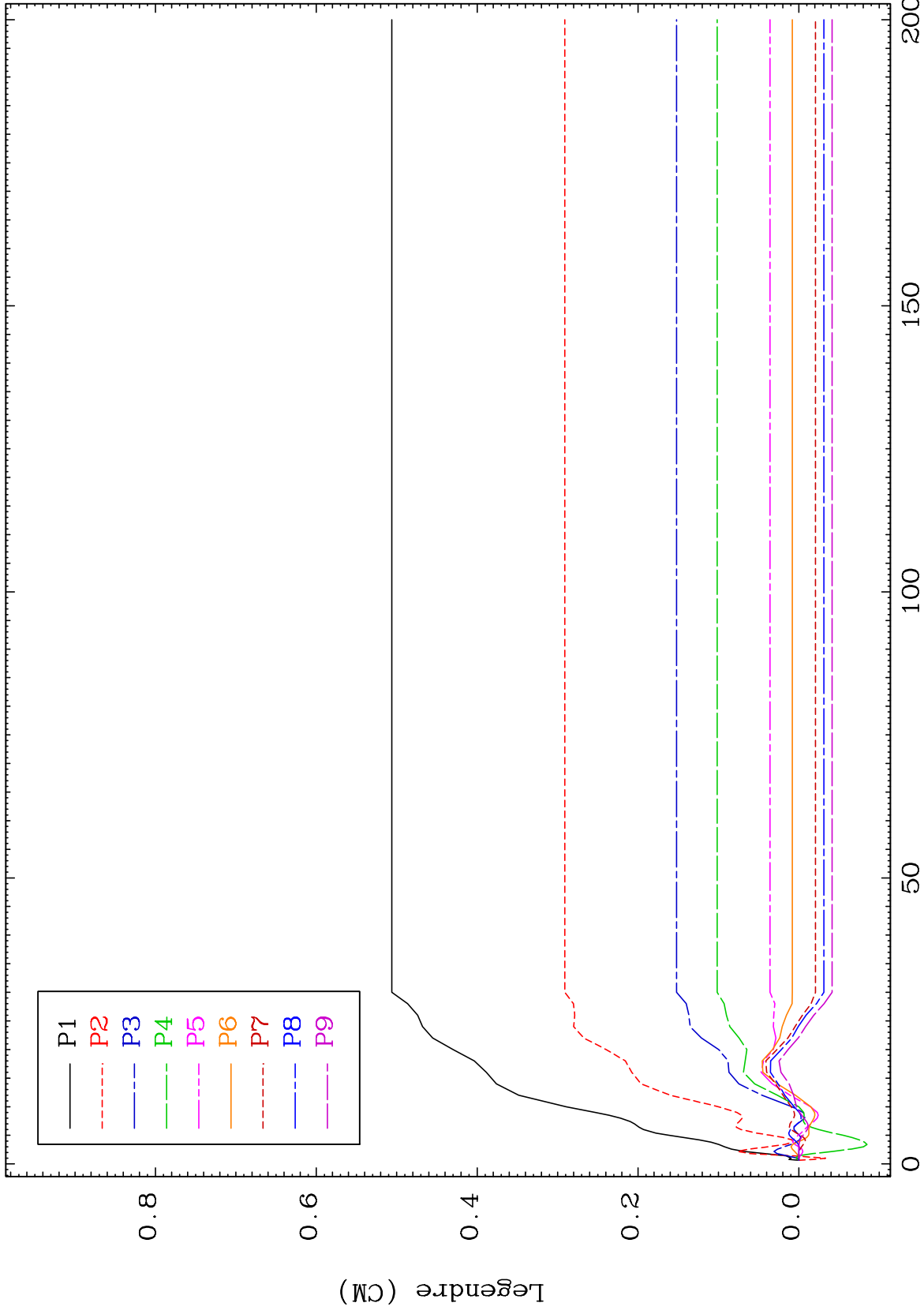
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MAT 6149

620.0 keV (n,n') Level  
Legendre Coefficients

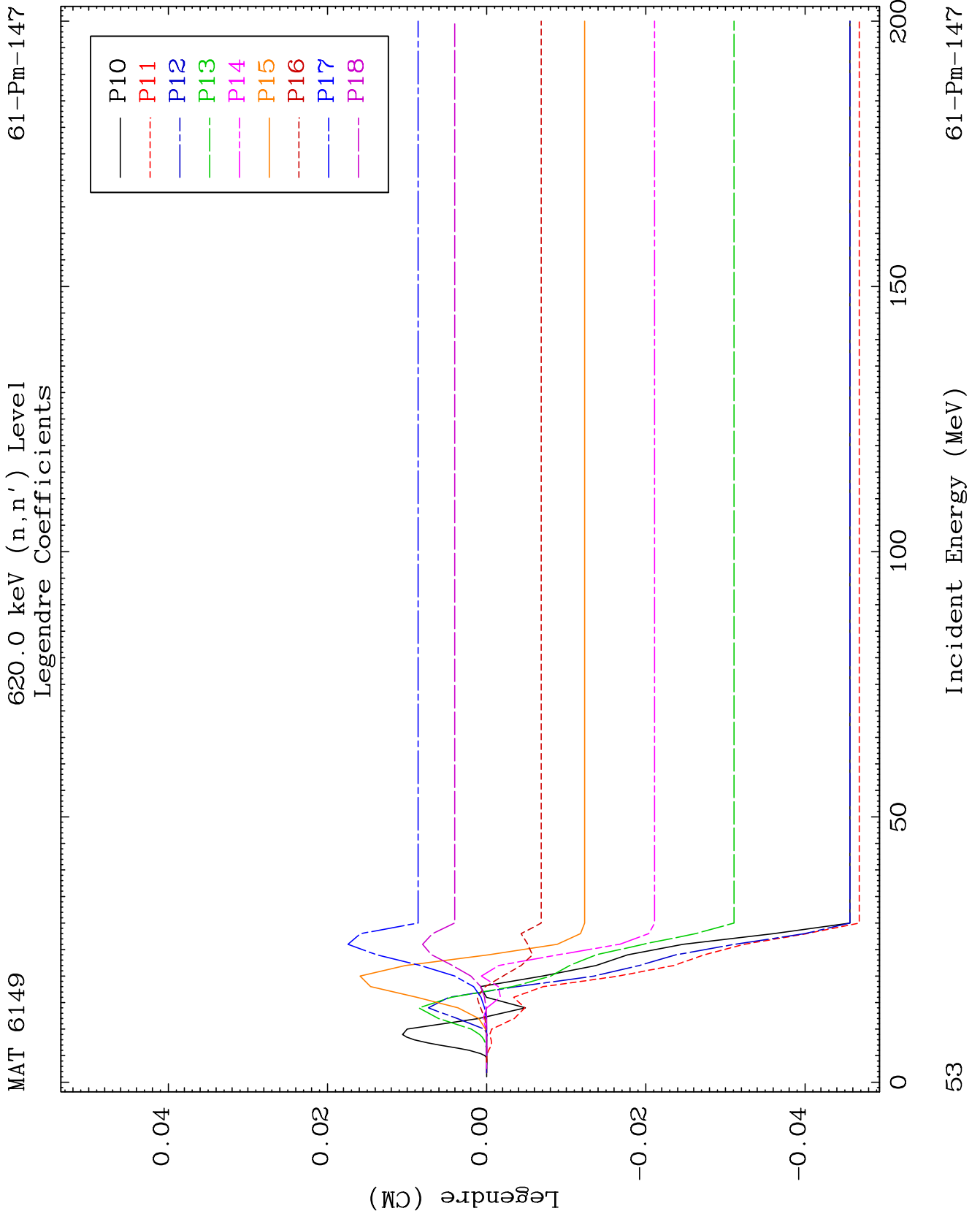
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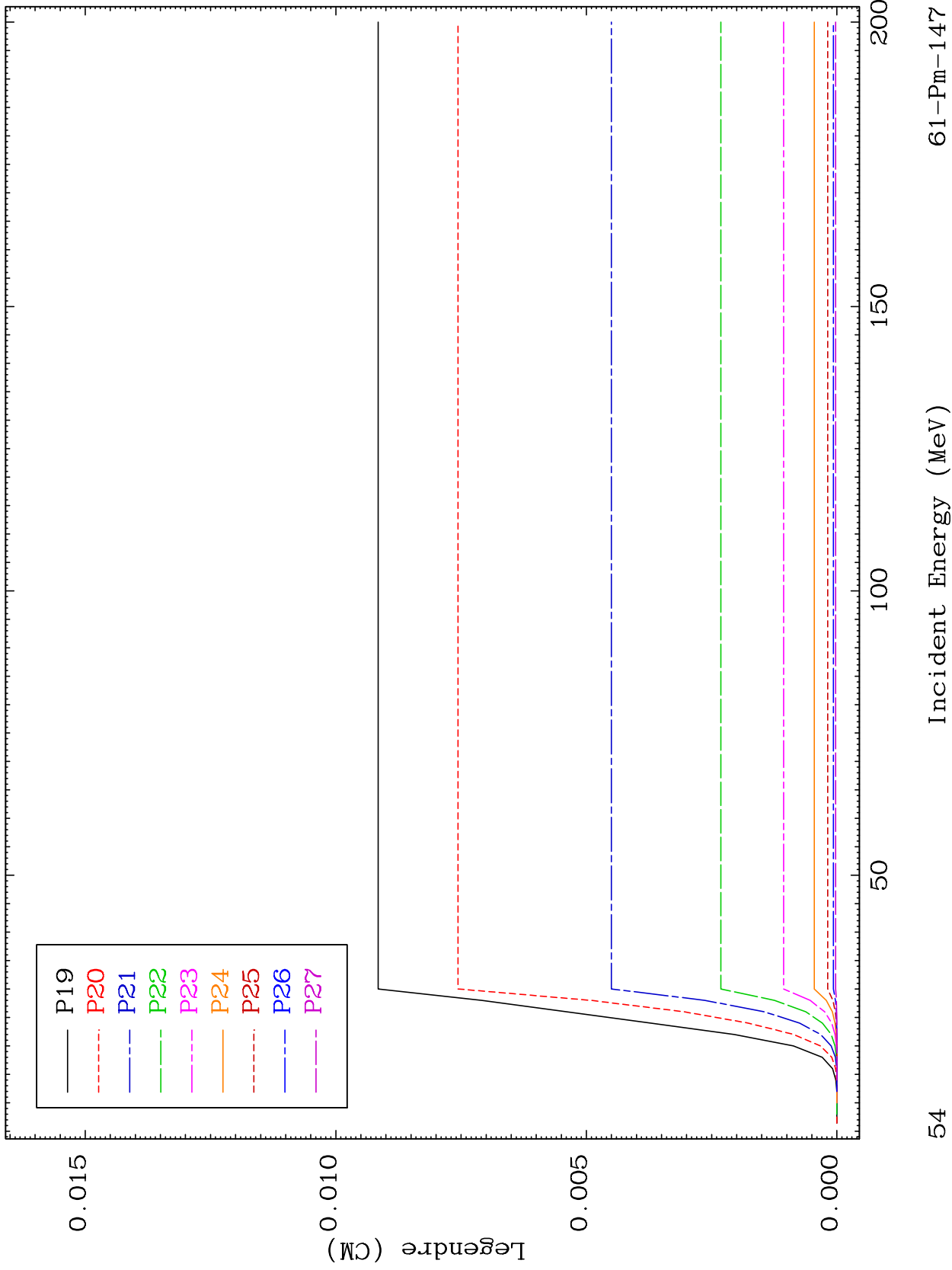


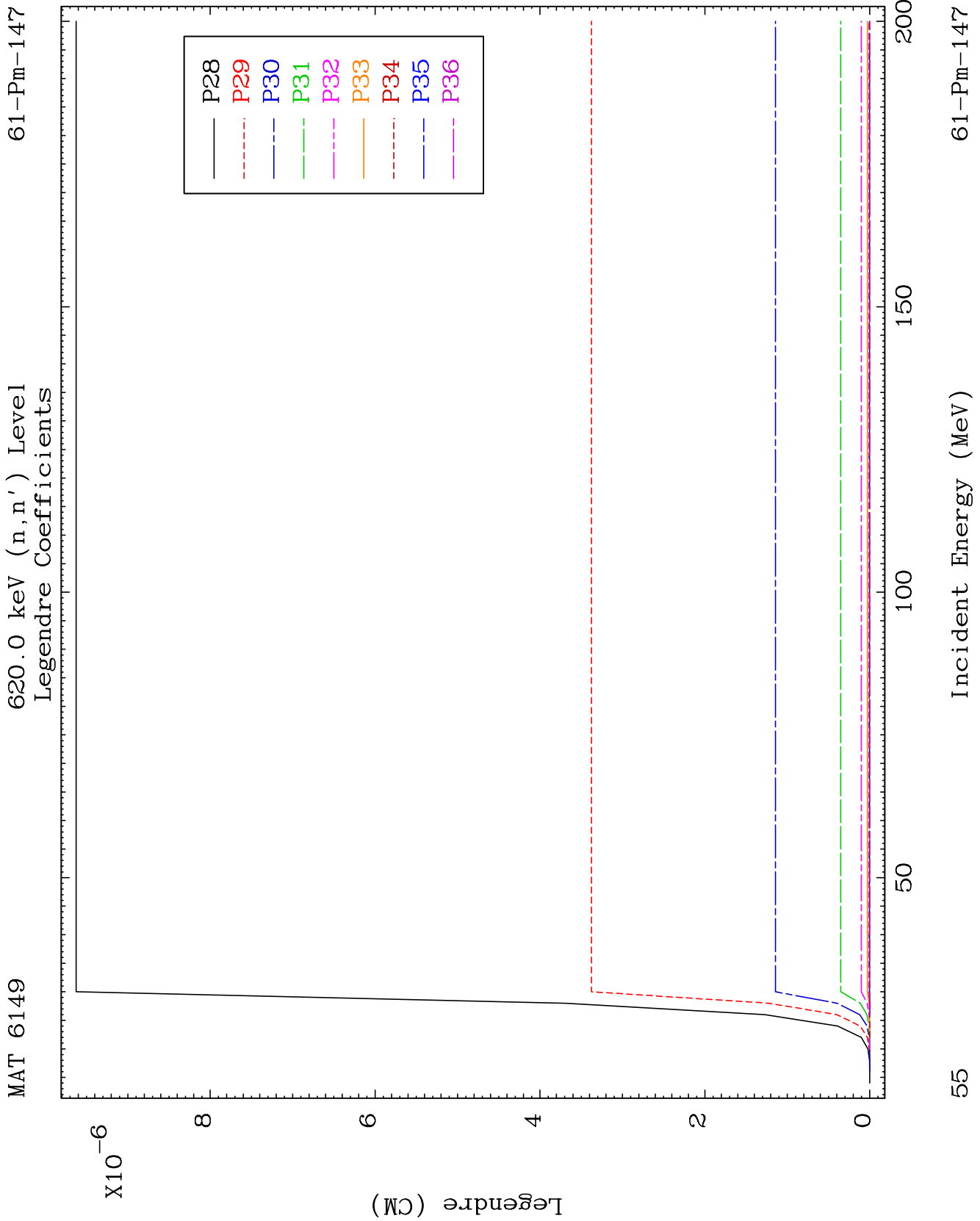
Incident Energy (MeV)

61-Pm-147

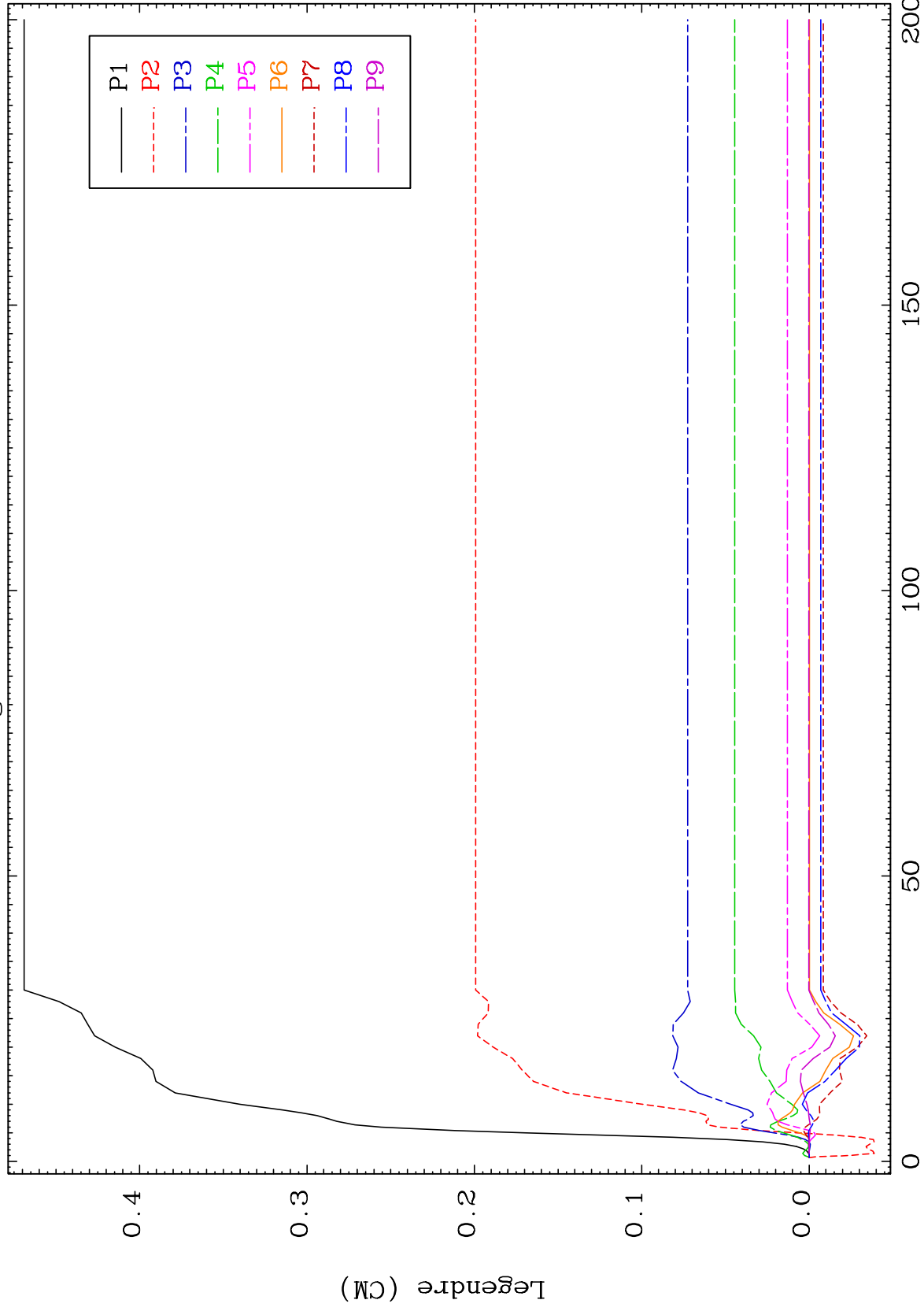
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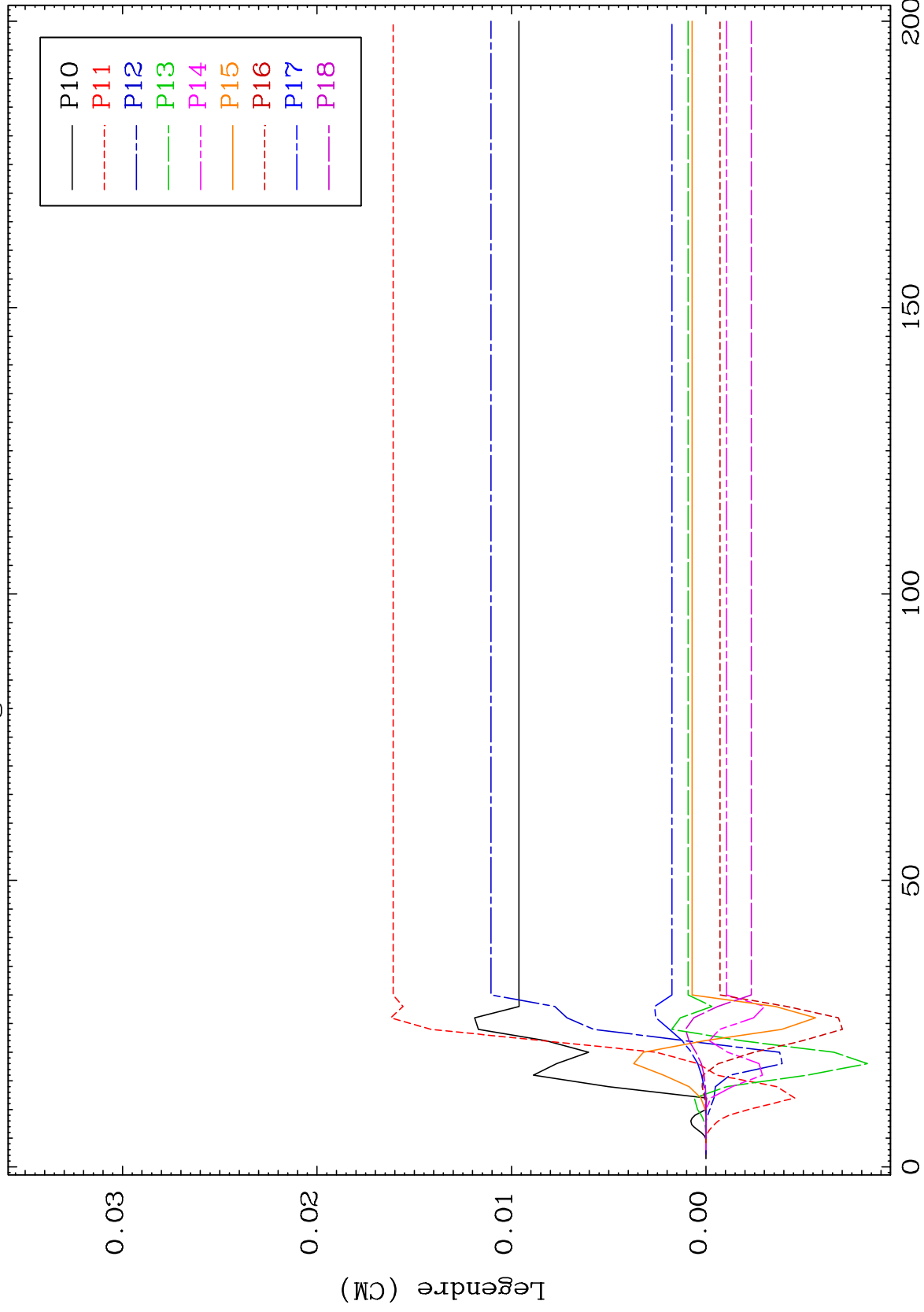




MAT 6149

632.9 keV (n,n') Level  
Legendre Coefficients

61-Pm-147



57

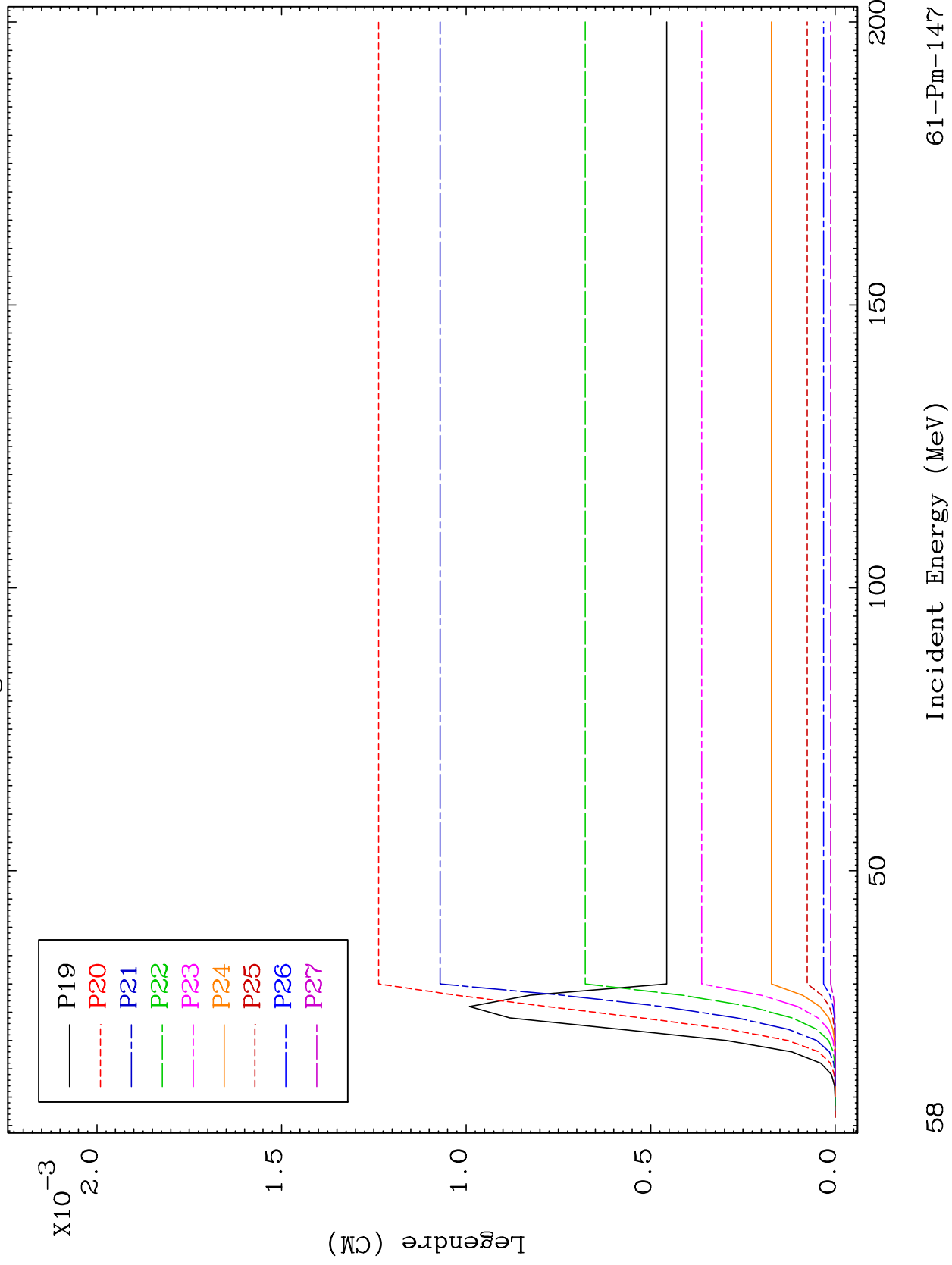
Incident Energy (MeV)

61-Pm-147

MAT 6149

632.9 keV (n,n') Level  
Legendre Coefficients

61-Pm-147



58

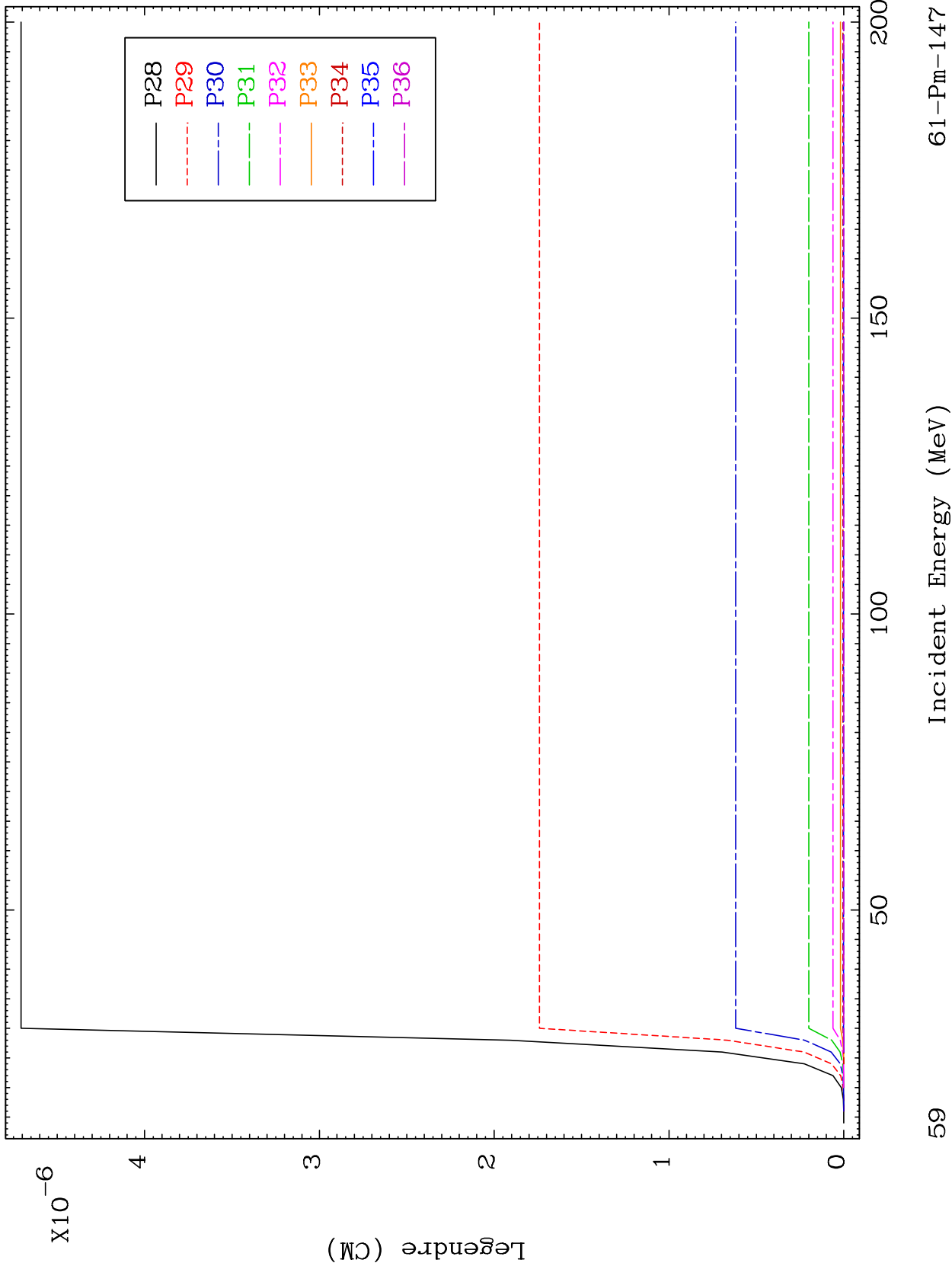
Incident Energy (MeV)

61-Pm-147

MAT 6149

632.9 keV (n,n') Level  
Legendre Coefficients

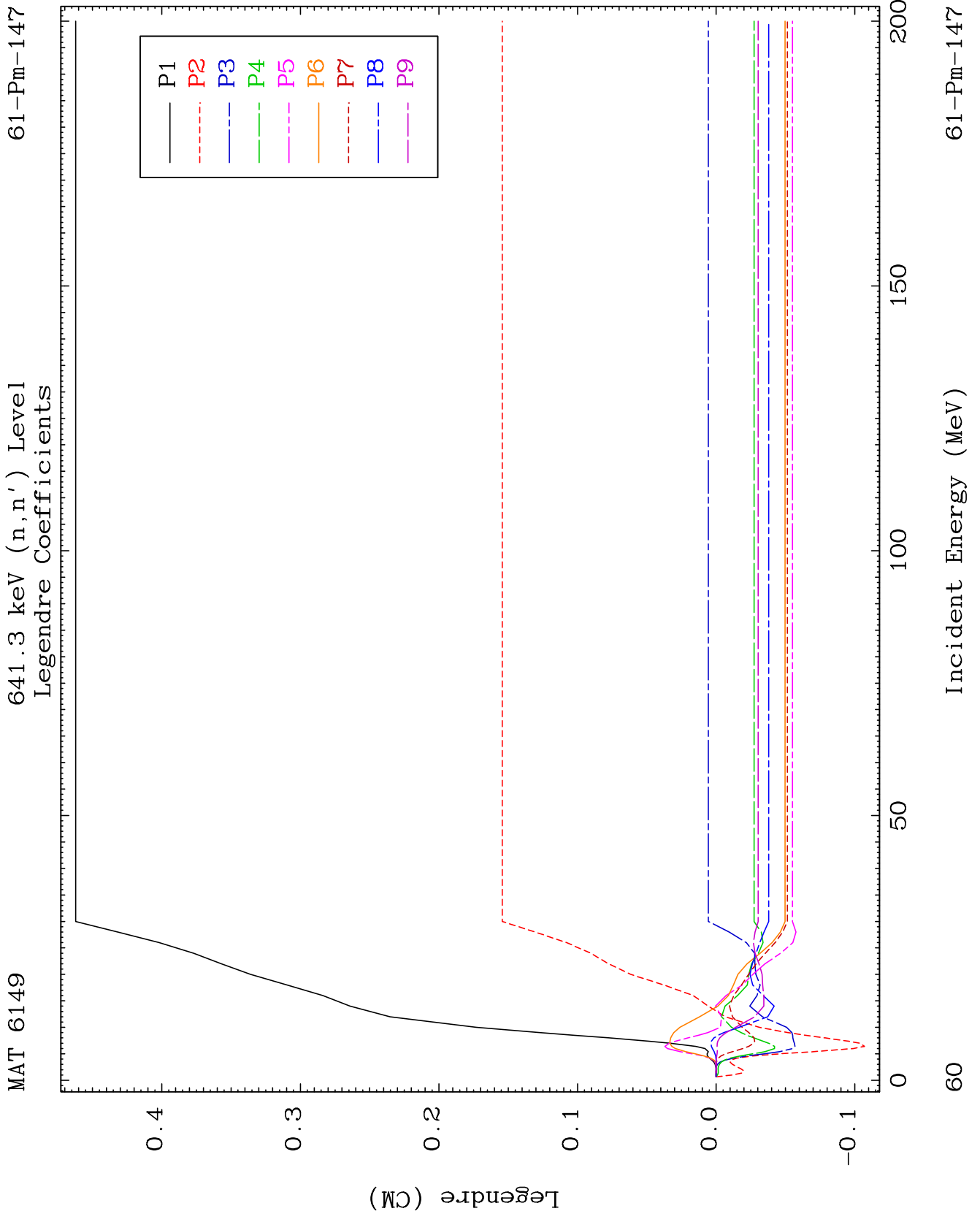
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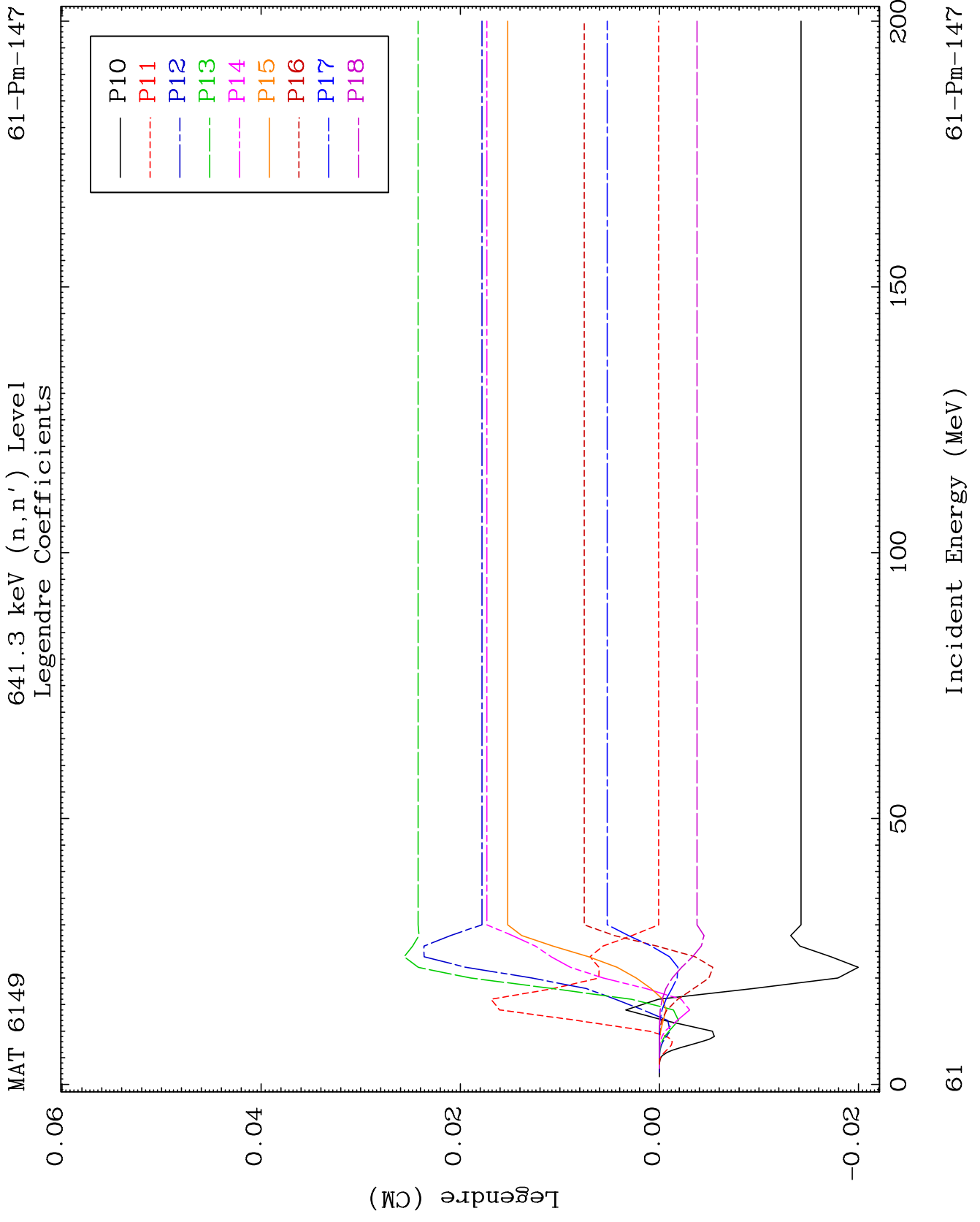


59

Incident Energy (MeV)

61-Pm-147

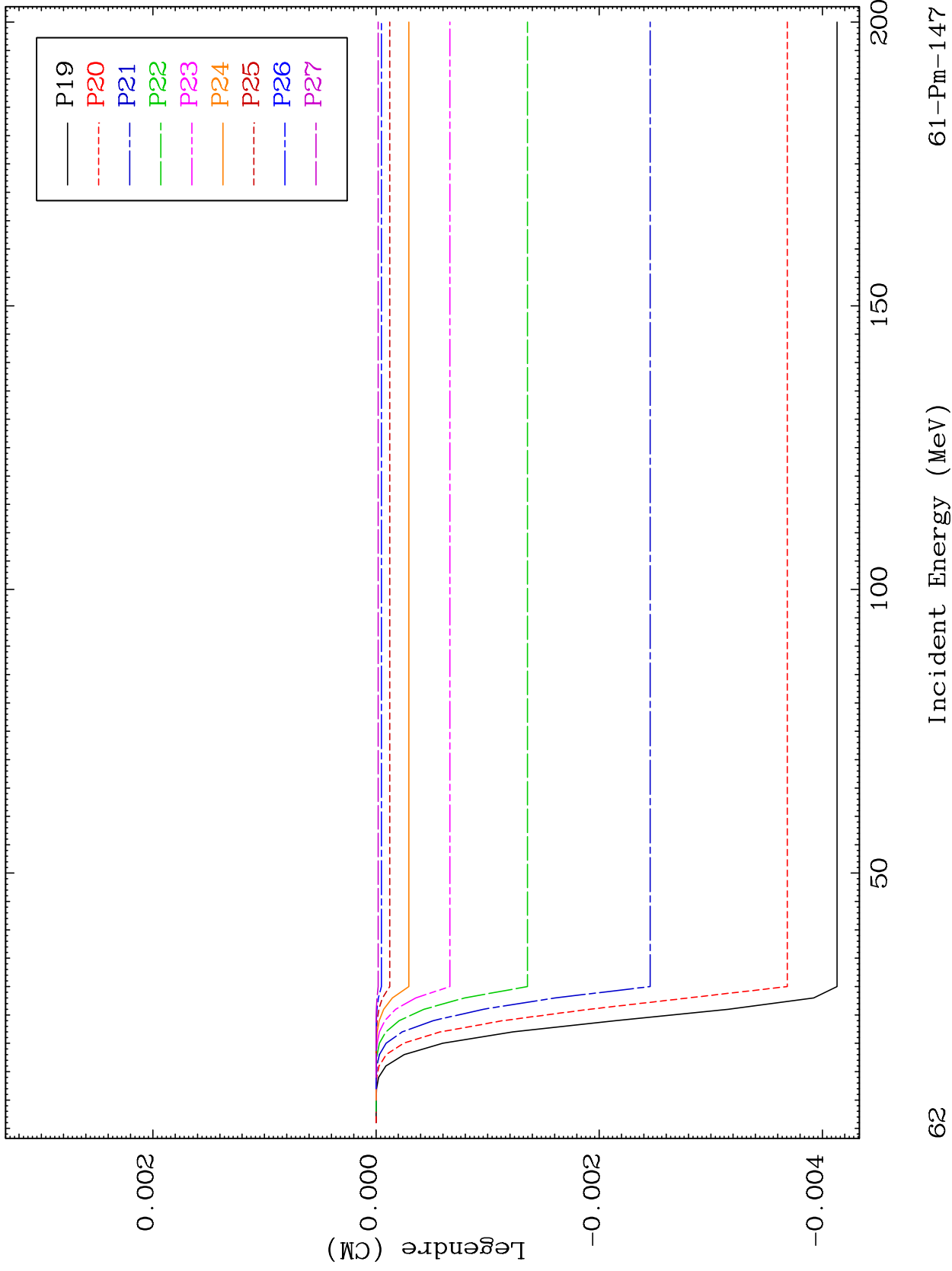




MAT 6149

641.3 keV (n,n') Level  
Legendre Coefficients

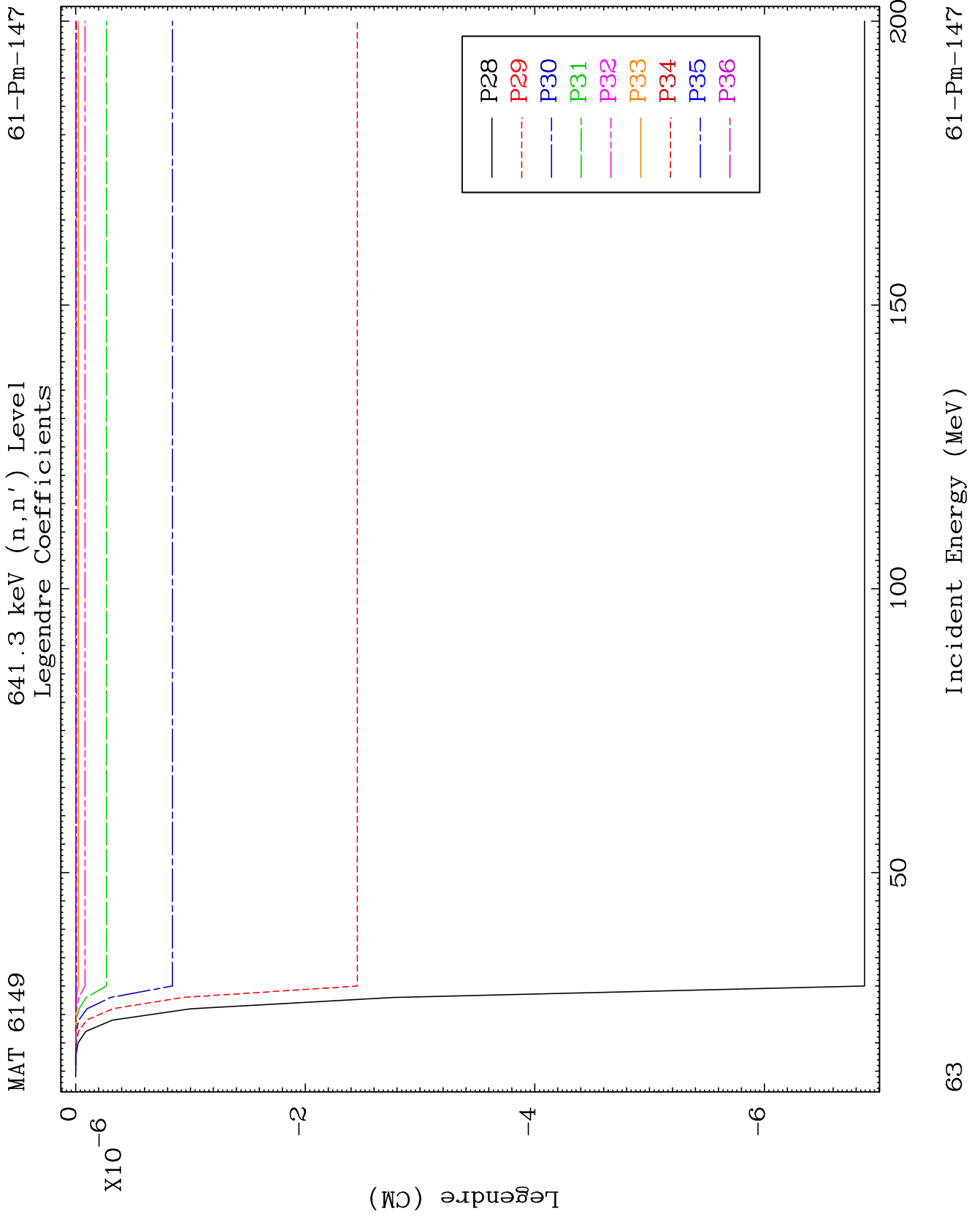
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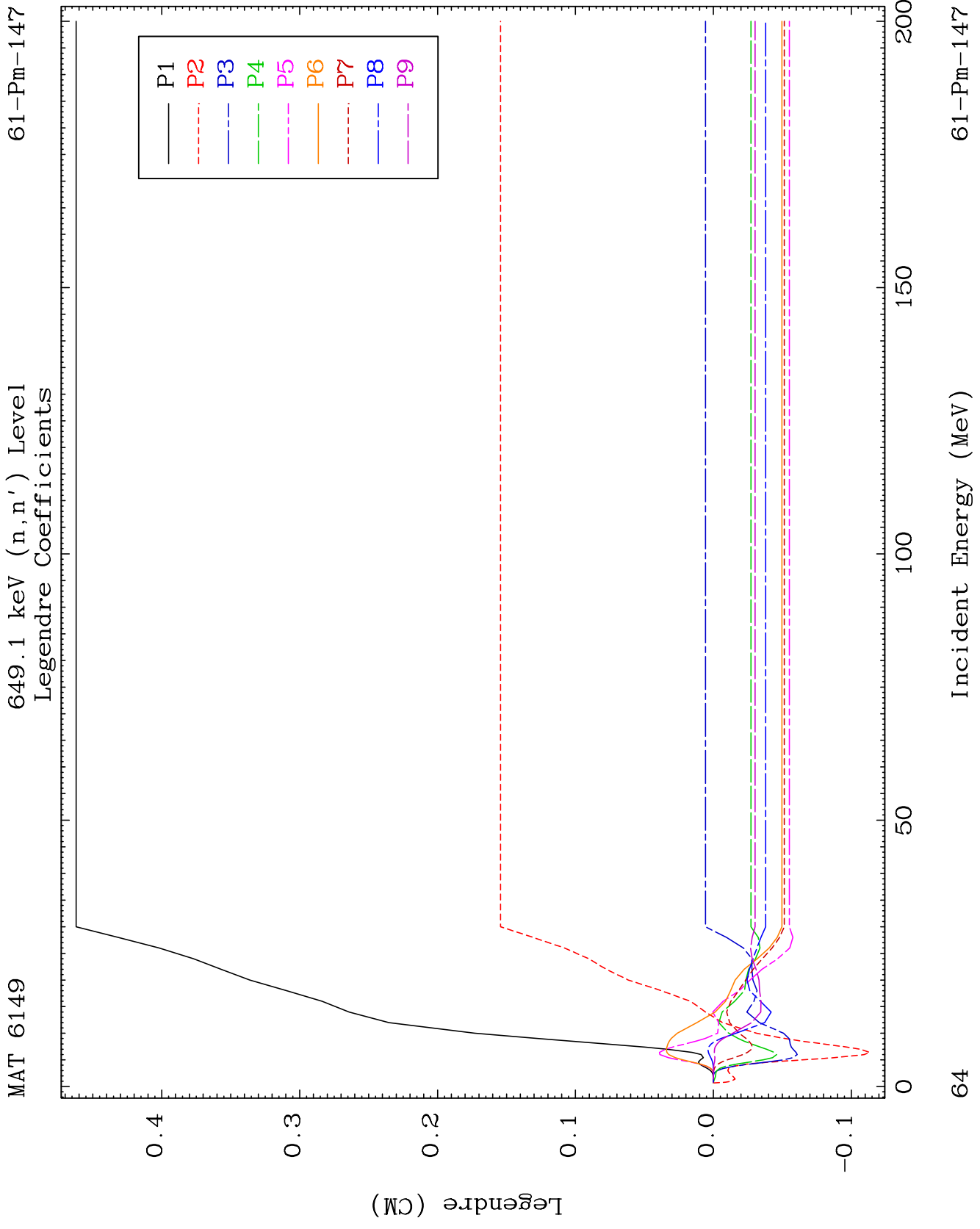
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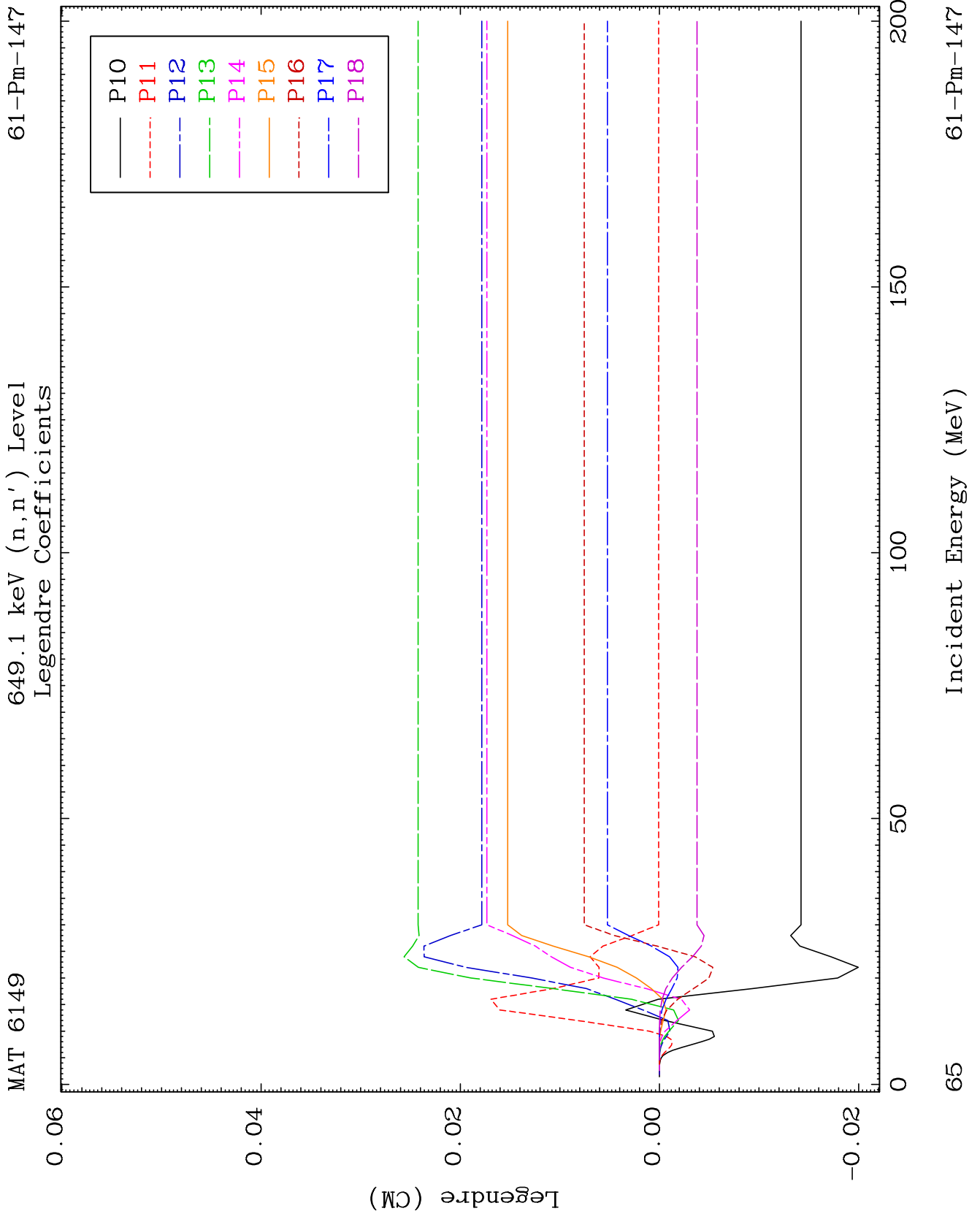
Incident Energy (MeV)

61-Pm-147





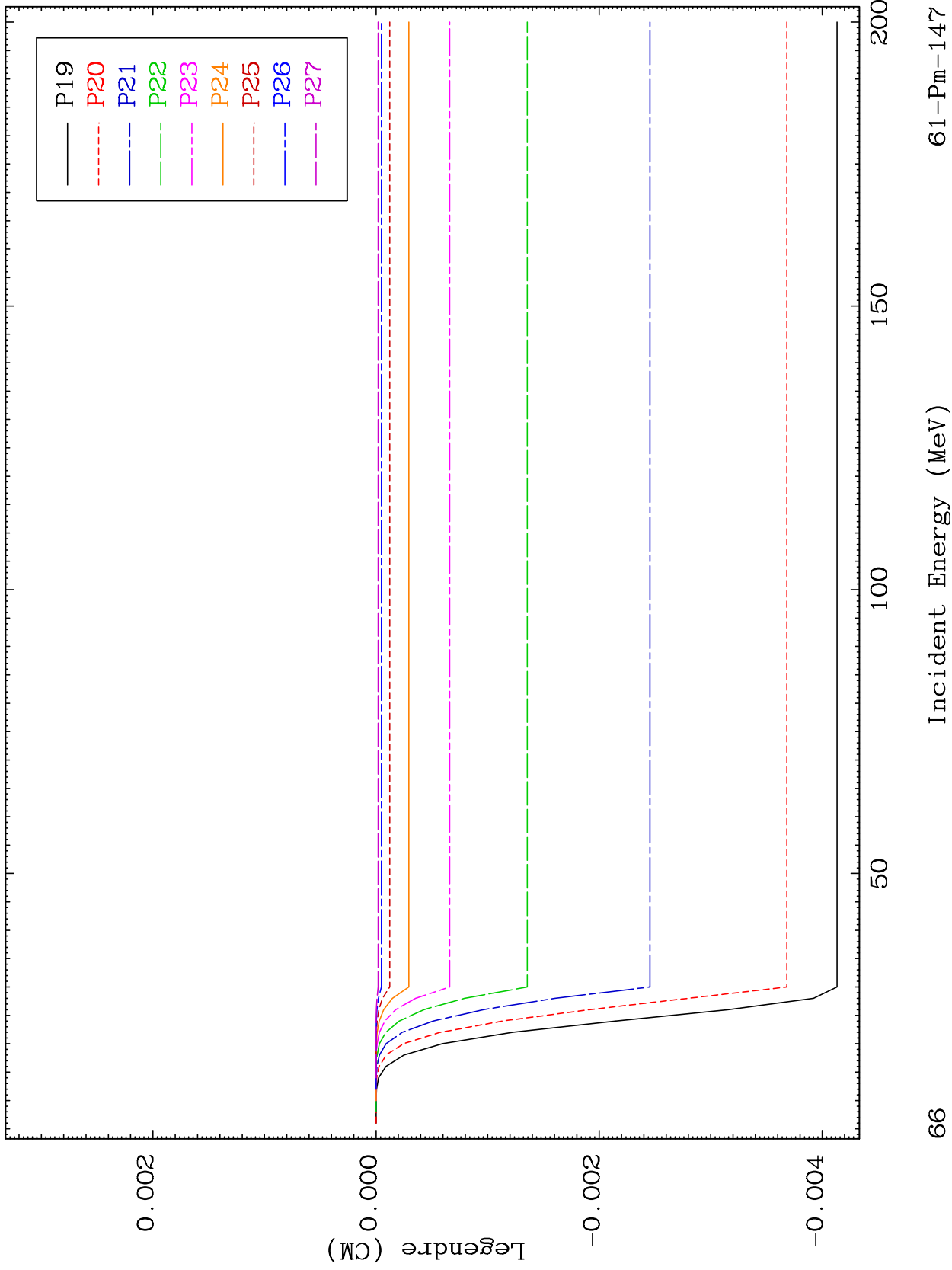




MAT 6149

649.1 keV (n,n') Level  
Legendre Coefficients

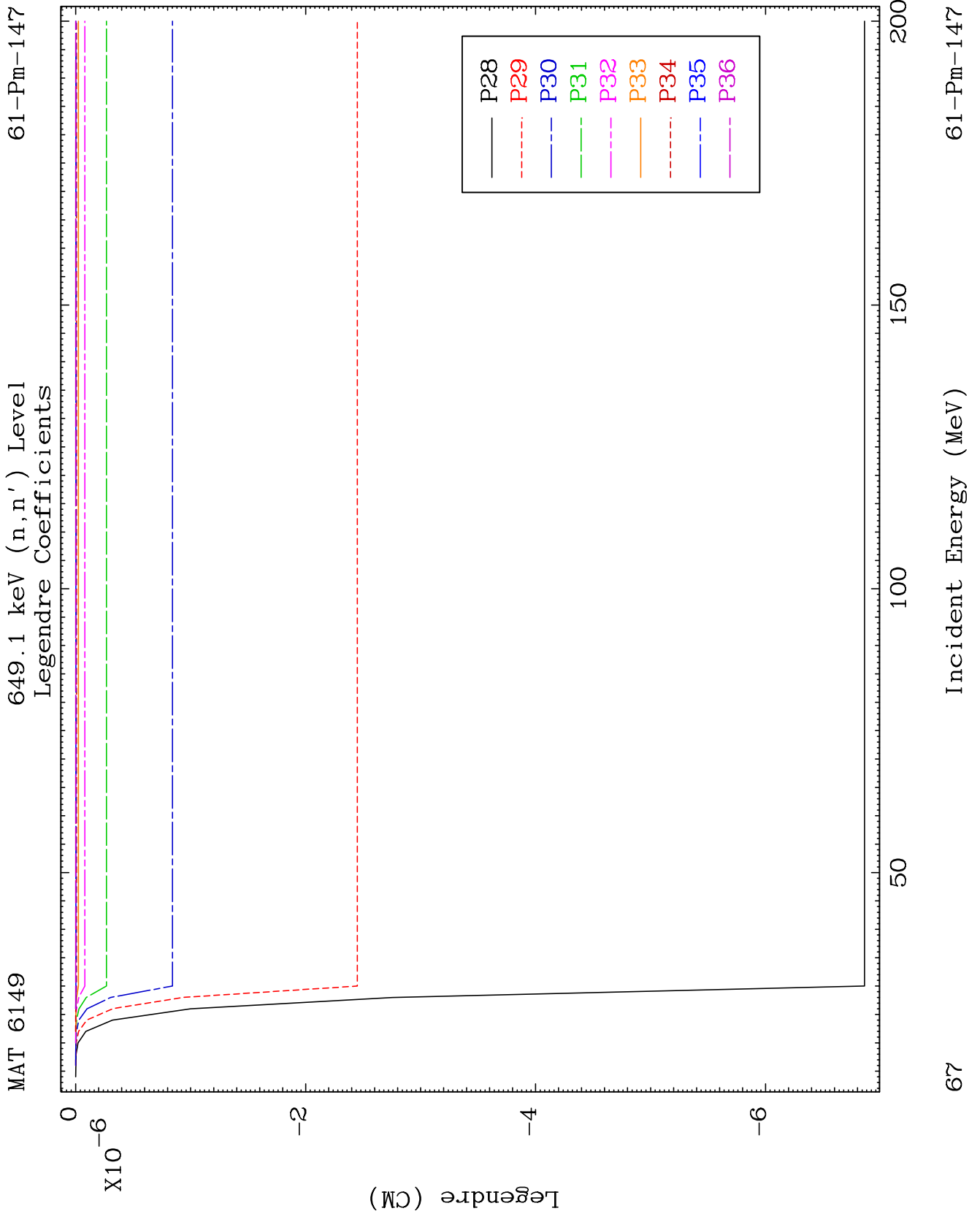
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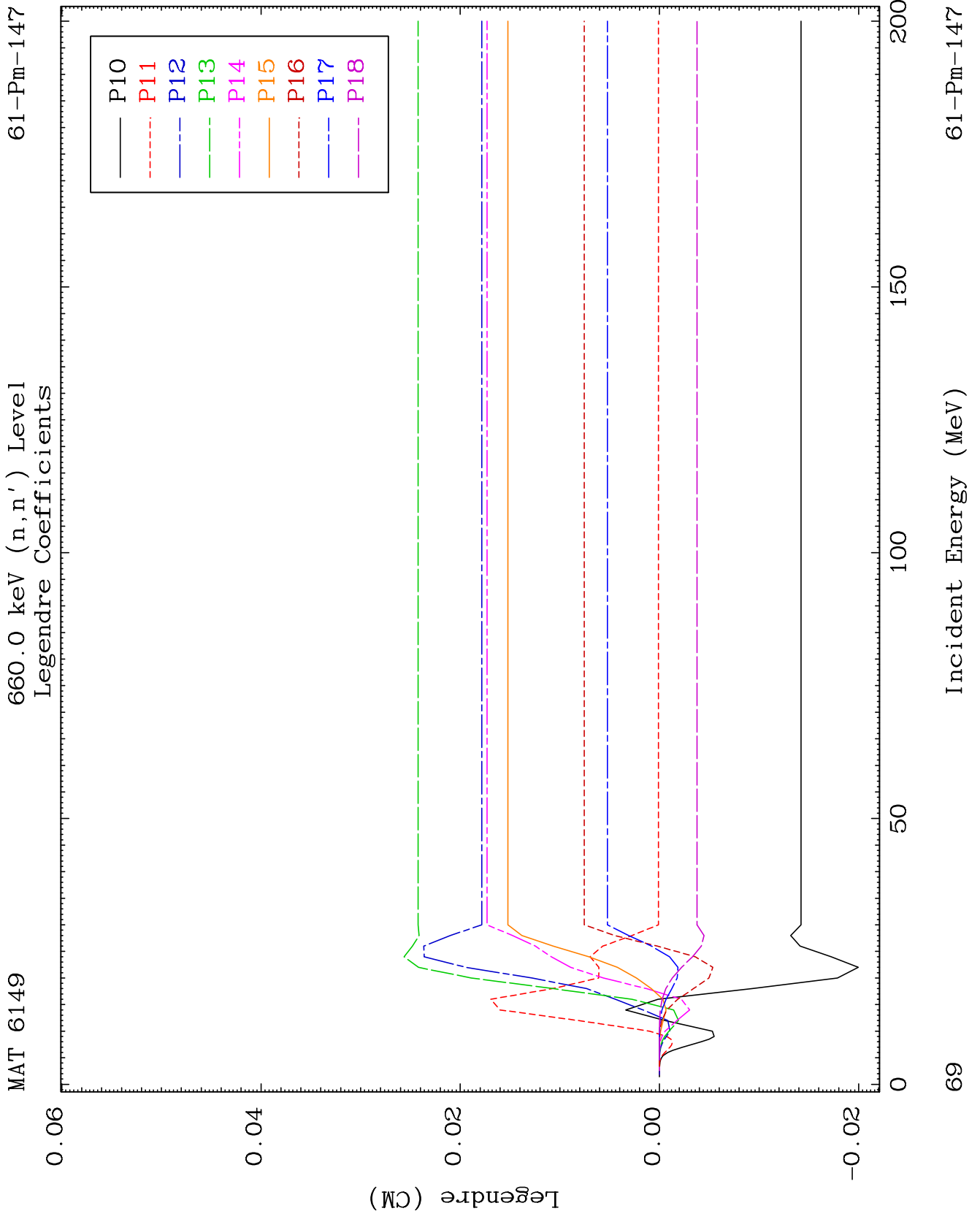
66

Incident Energy (MeV)

61-Pm-147



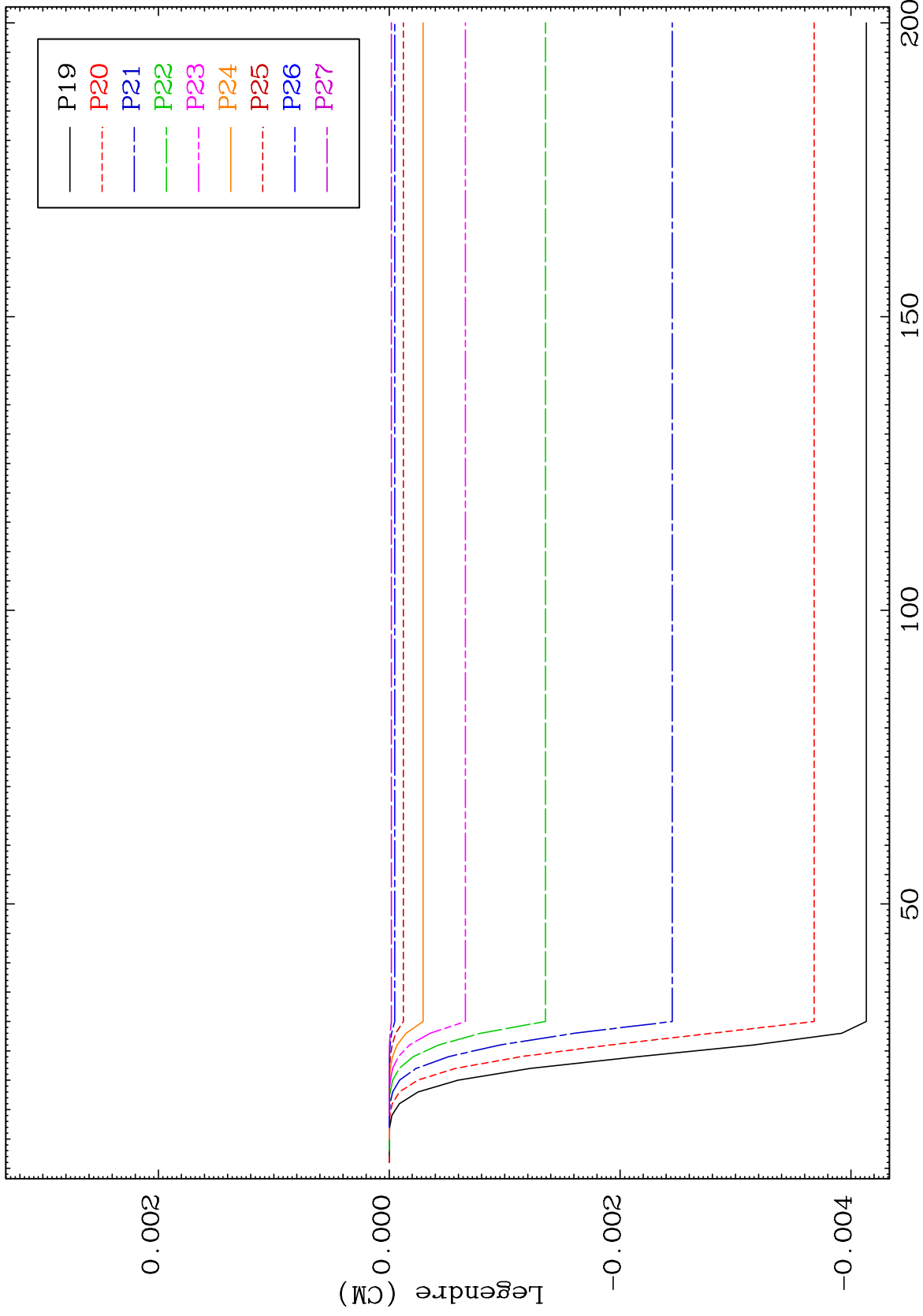




MAT 6149

660.0 keV (n,n') Level  
Legendre Coefficients

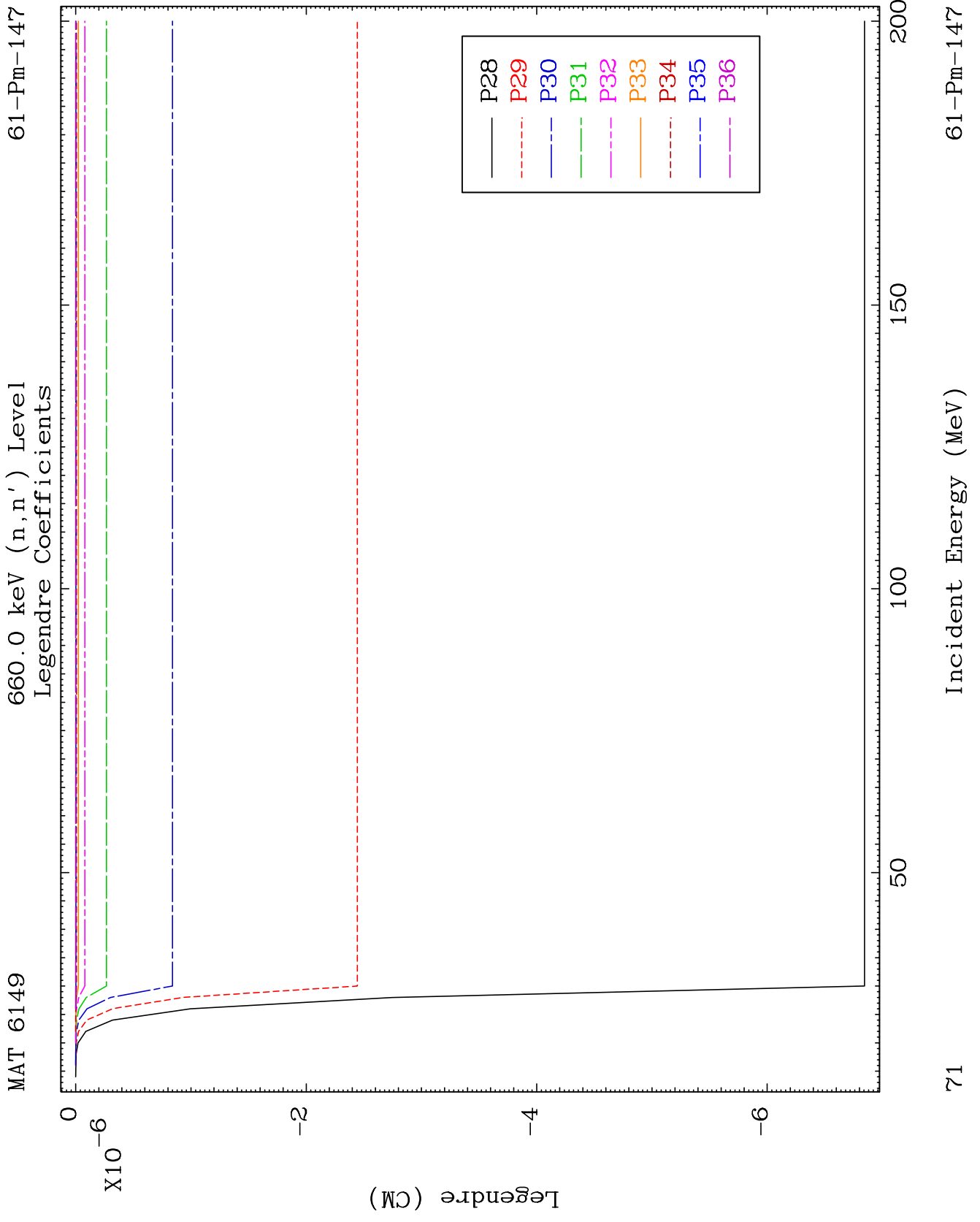
61-Pm-147



70

Incident Energy (MeV)

61-Pm-147

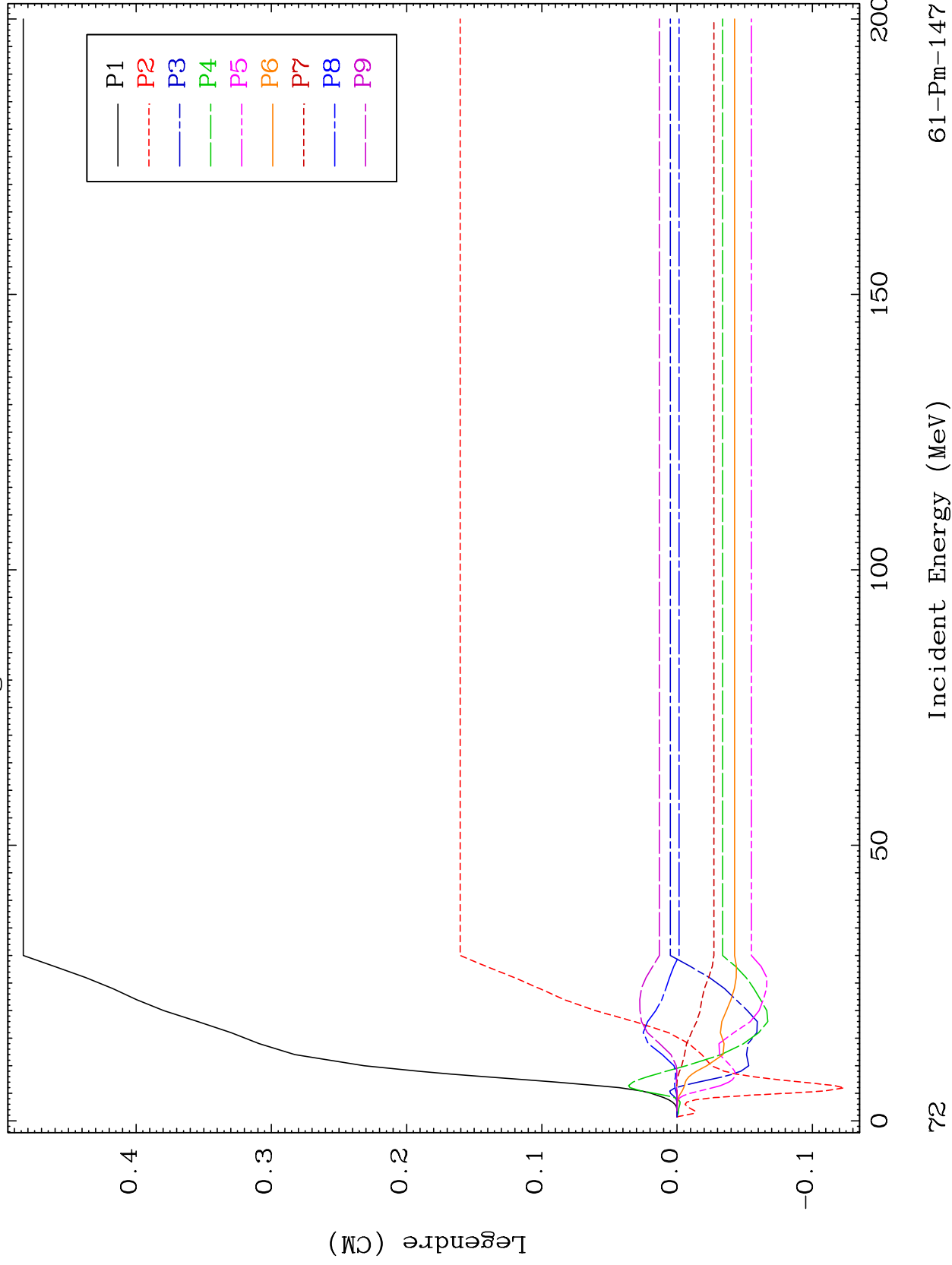




MAT 6149

667.3 keV (n,n') Level  
Legendre Coefficients

61-Pm-147



61-Pm-147

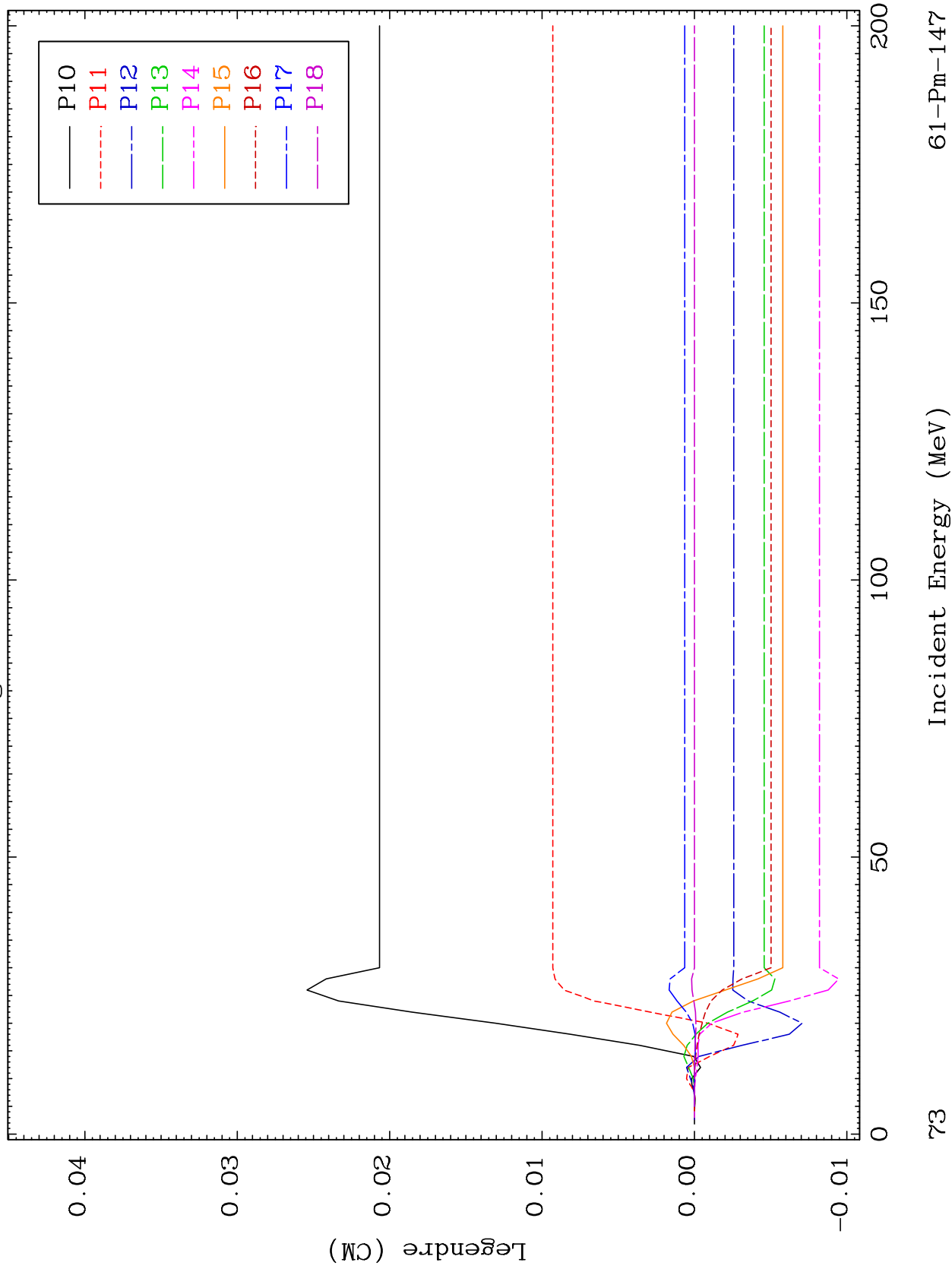
Incident Energy (MeV)

72

MAT 6149

667.3 keV (n,n') Level  
Legendre Coefficients

61-Pm-147



73

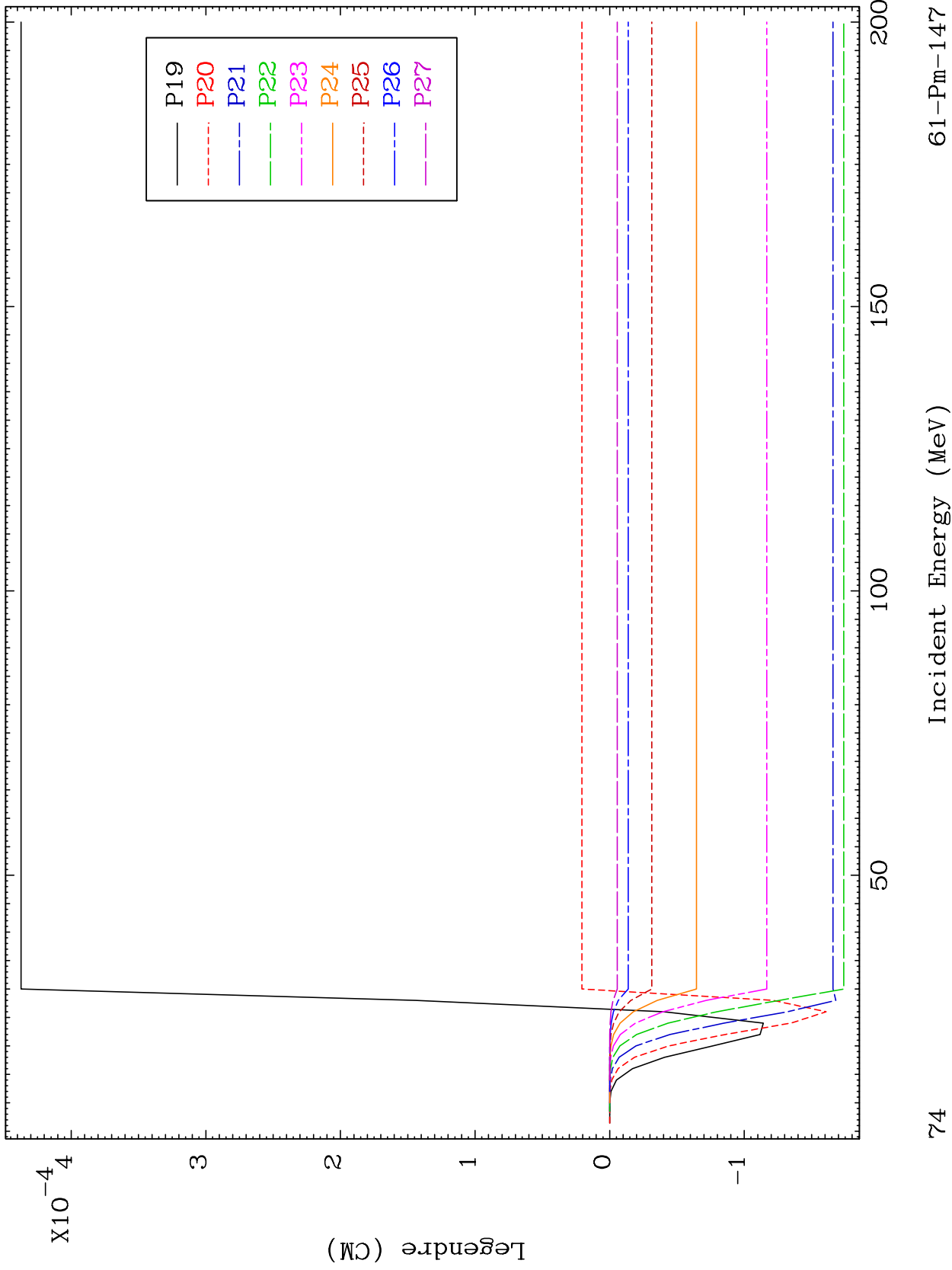
Incident Energy (MeV)

61-Pm-147

MAT 6149

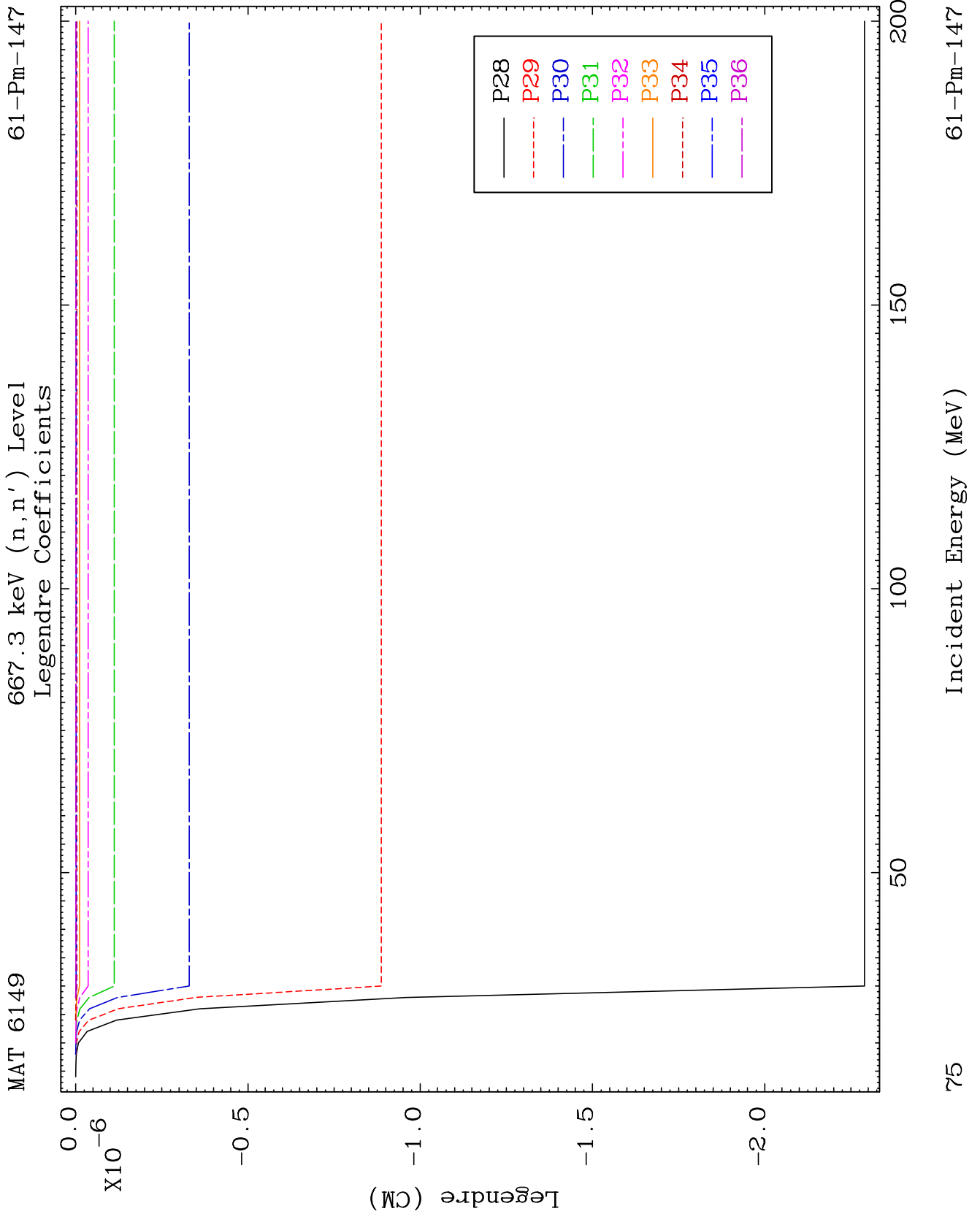
667.3 keV (n,n') Level  
Legendre Coefficients

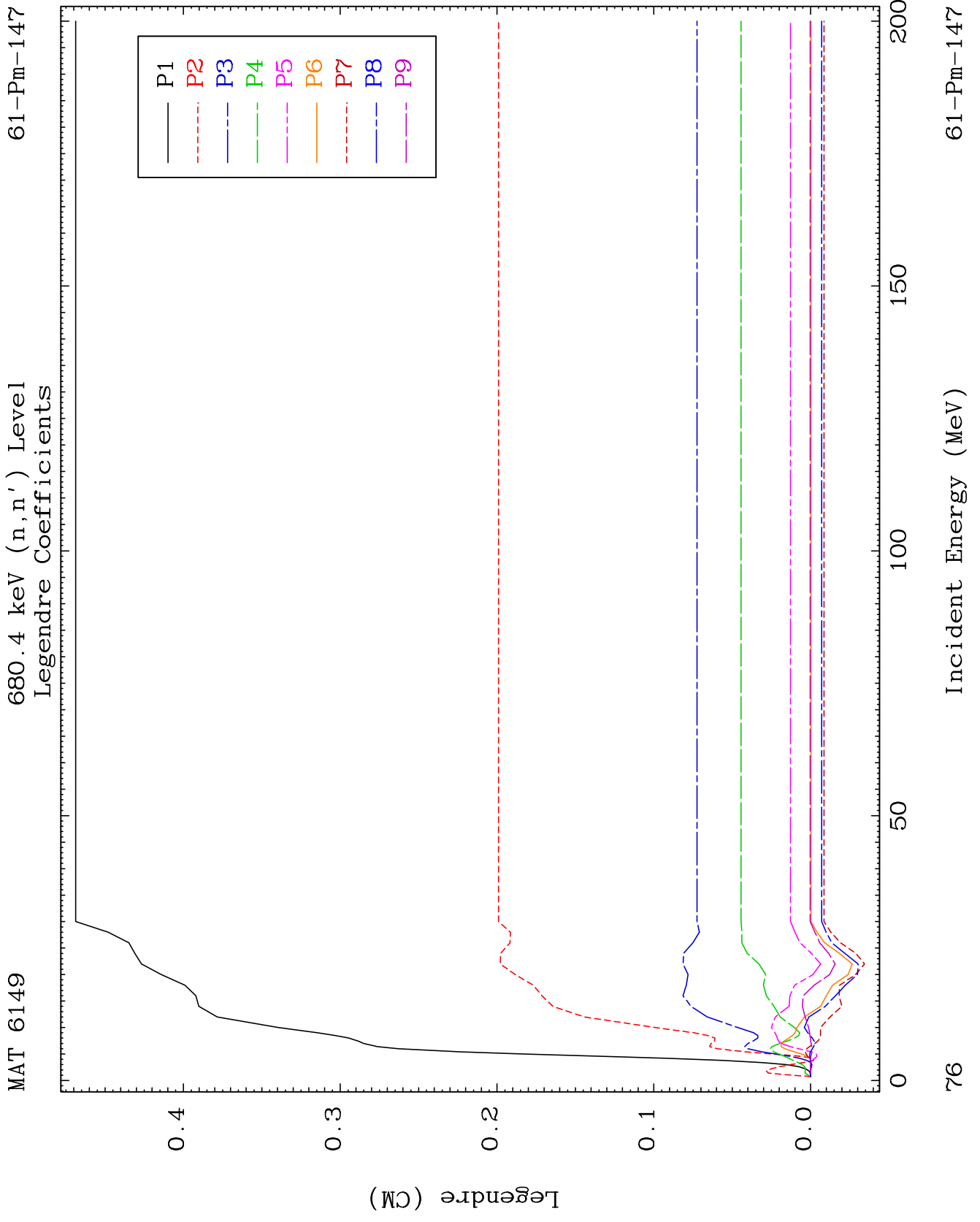
61-Pm-147



74

61-Pm-147



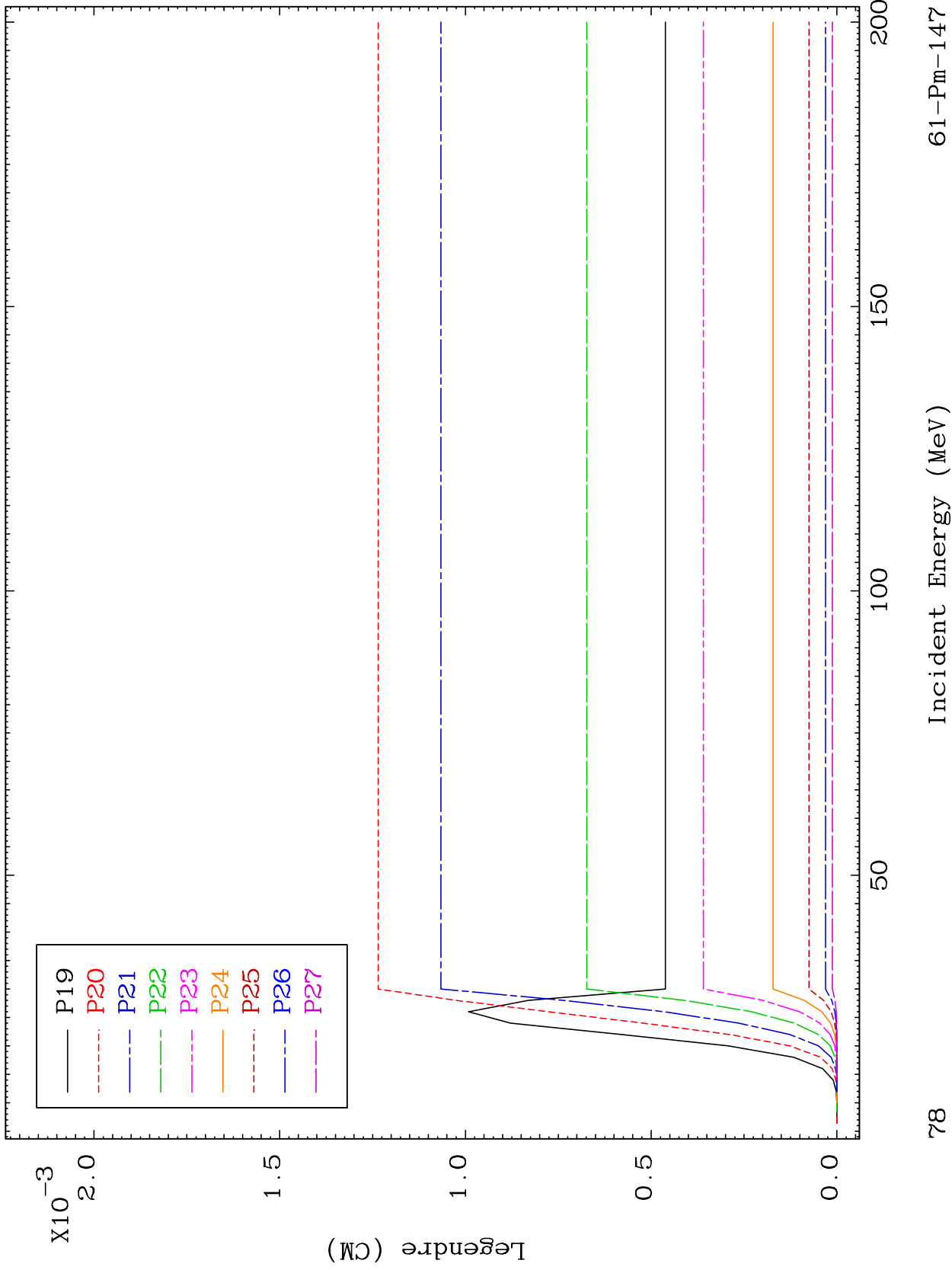




MAT 6149

680.4 keV (n,n') Level  
Legendre Coefficients

61-Pm-147



78

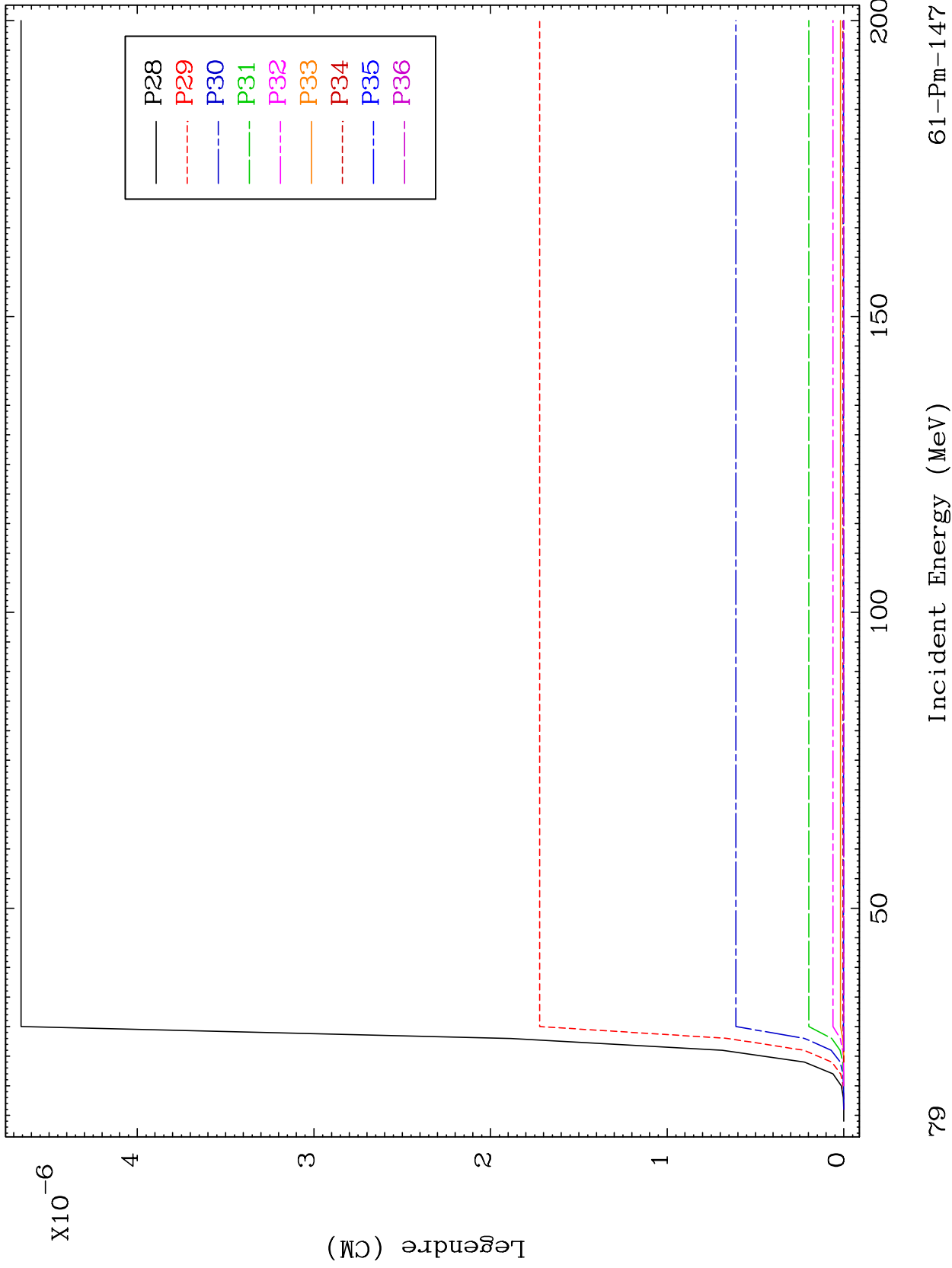
Incident Energy (MeV)

61-Pm-147

MAT 6149

680.4 keV (n,n') Level  
Legendre Coefficients

61-Pm-147



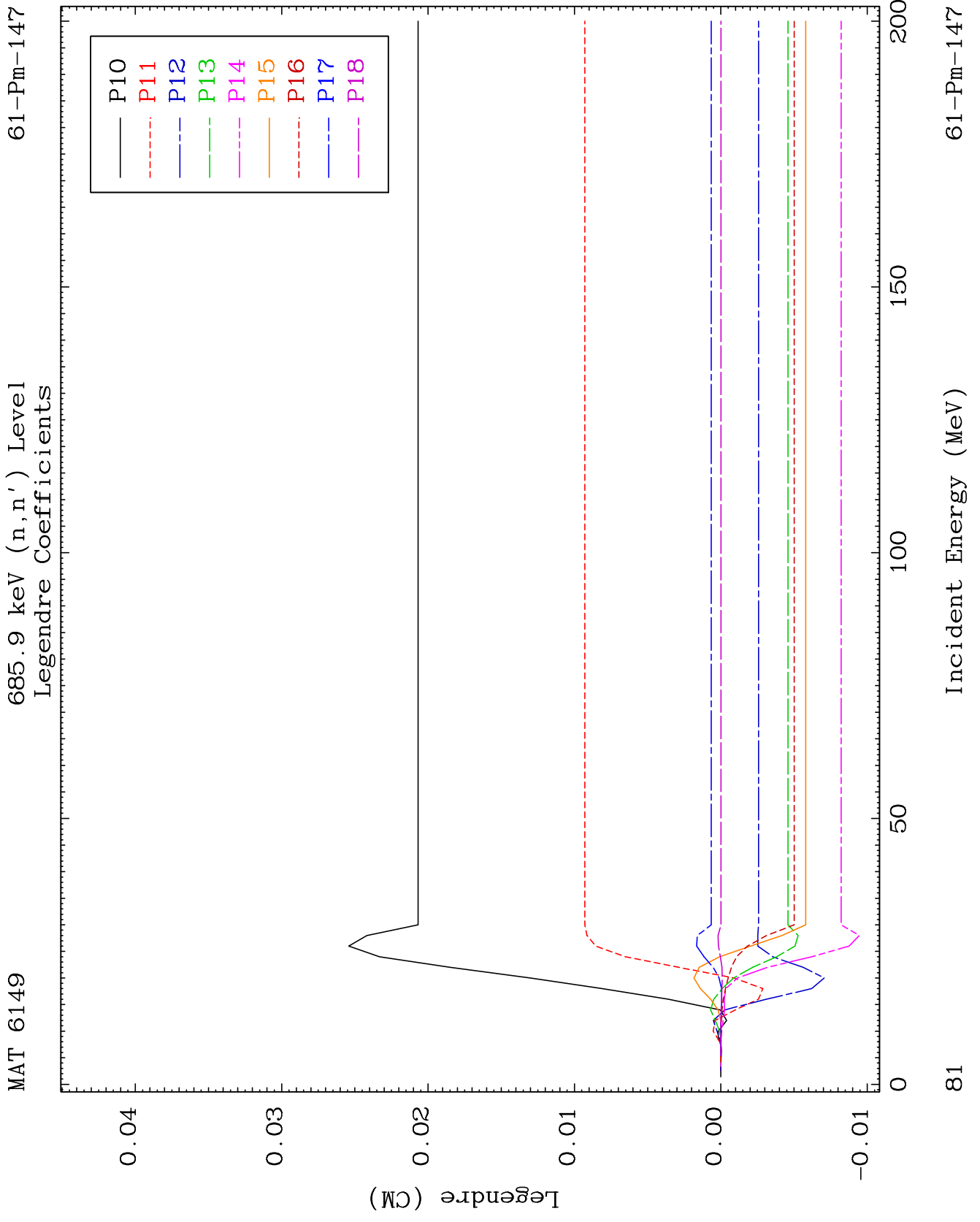
61-Pm-147

Incident Energy (MeV)

79



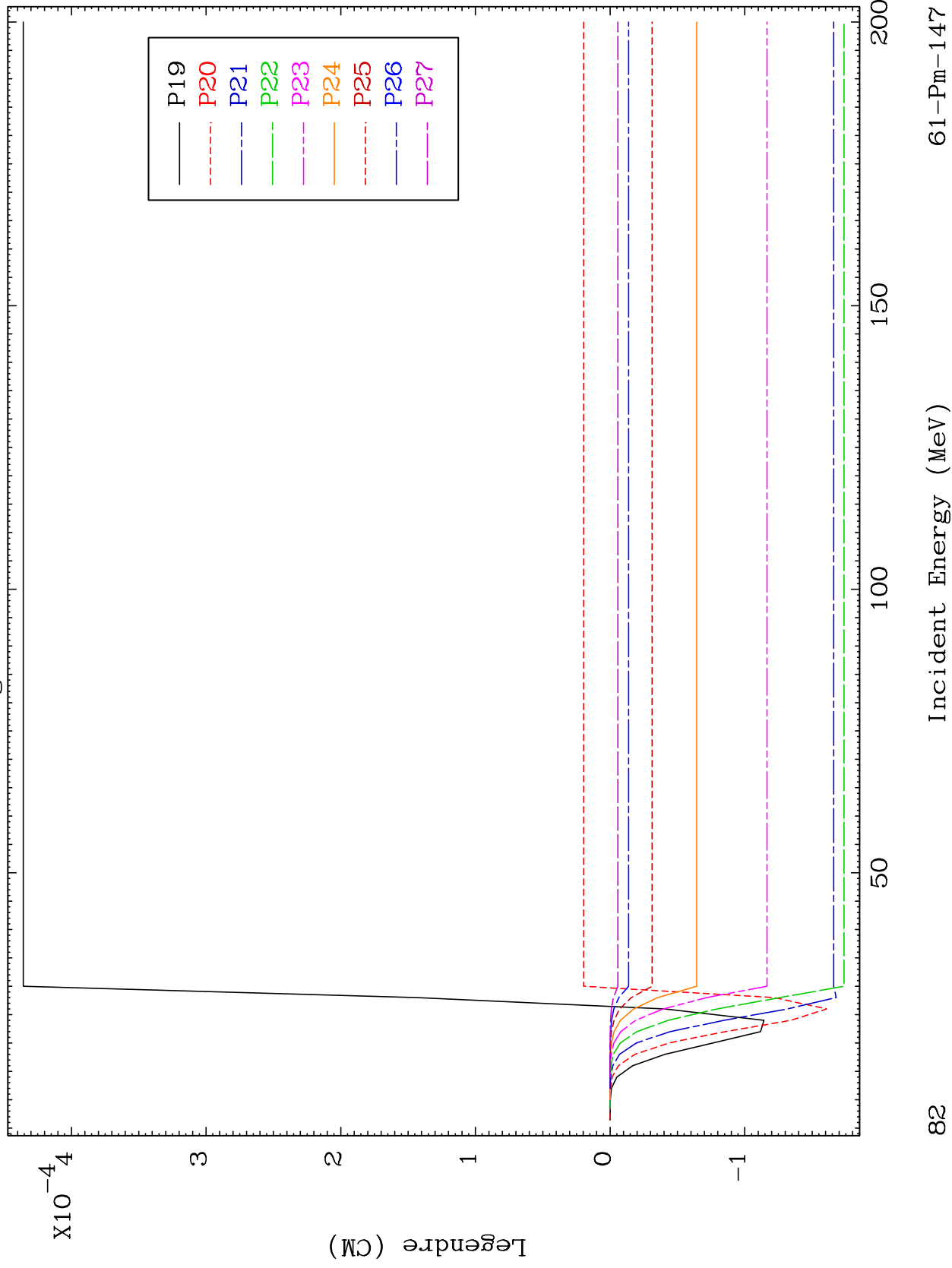




MAT 6149

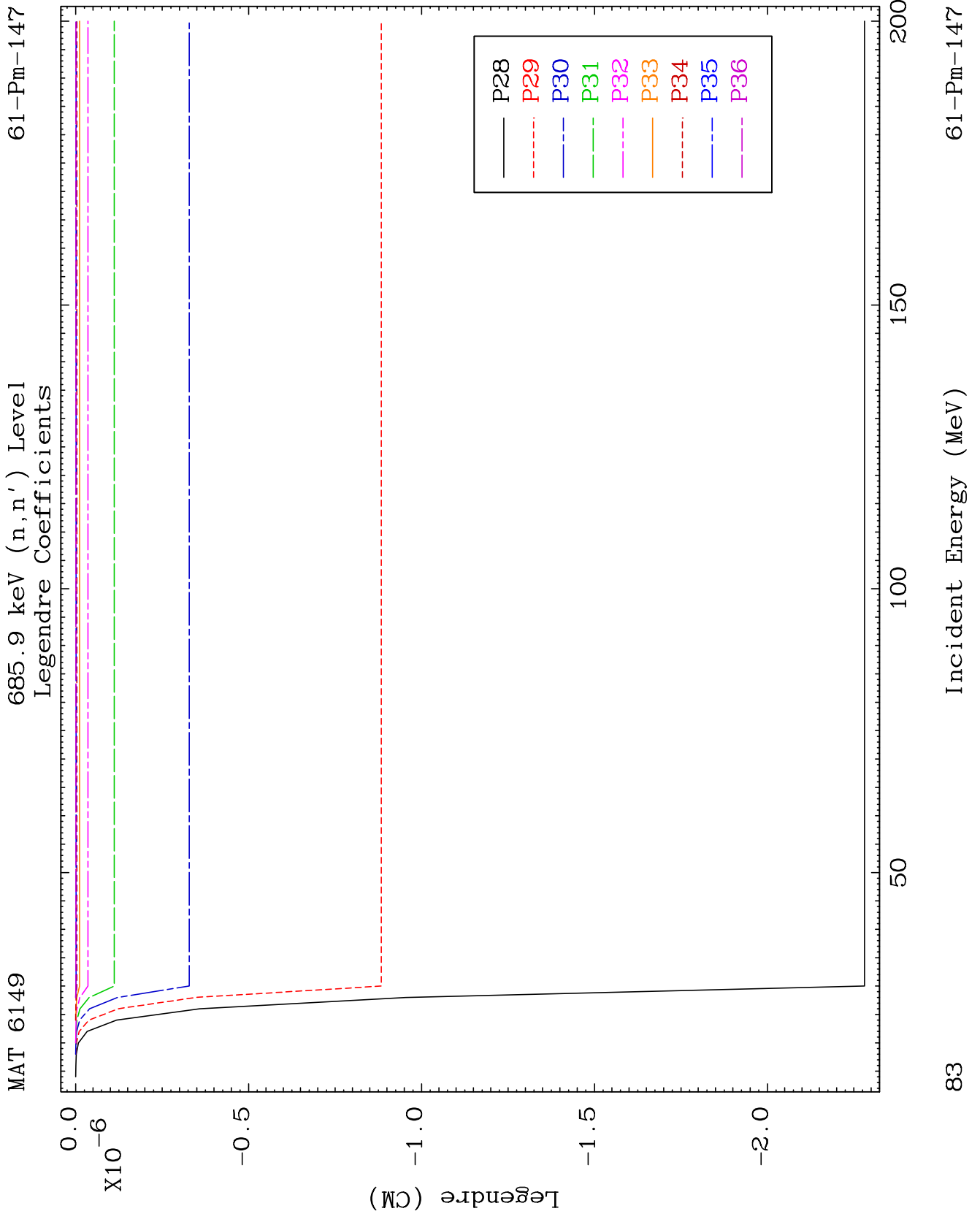
685.9 keV (n, n') Level  
Legendre Coefficients

61-Pm-147



82

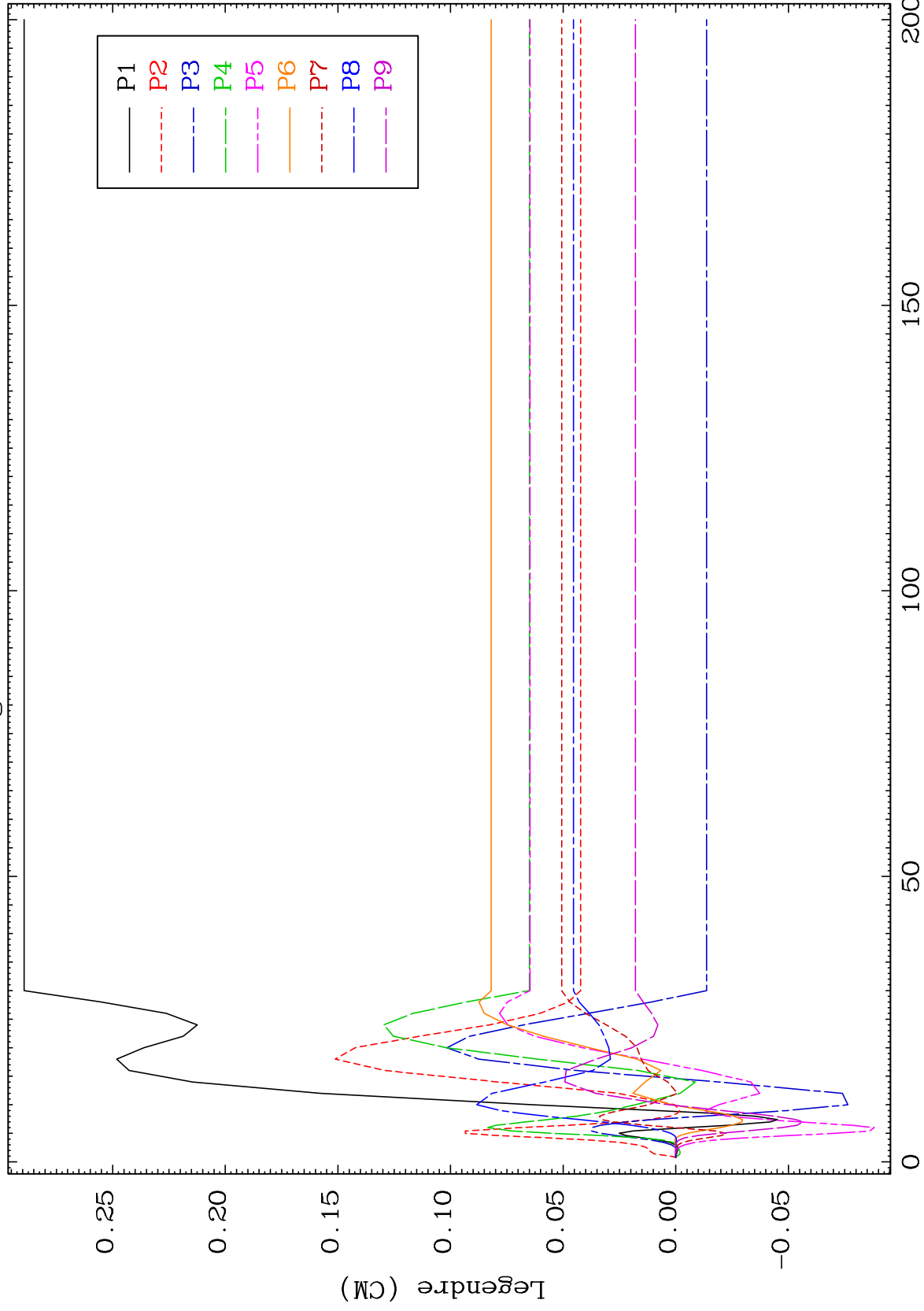
61-Pm-147



MAT 6149

730.7 keV (n,n') Level  
Legendre Coefficients

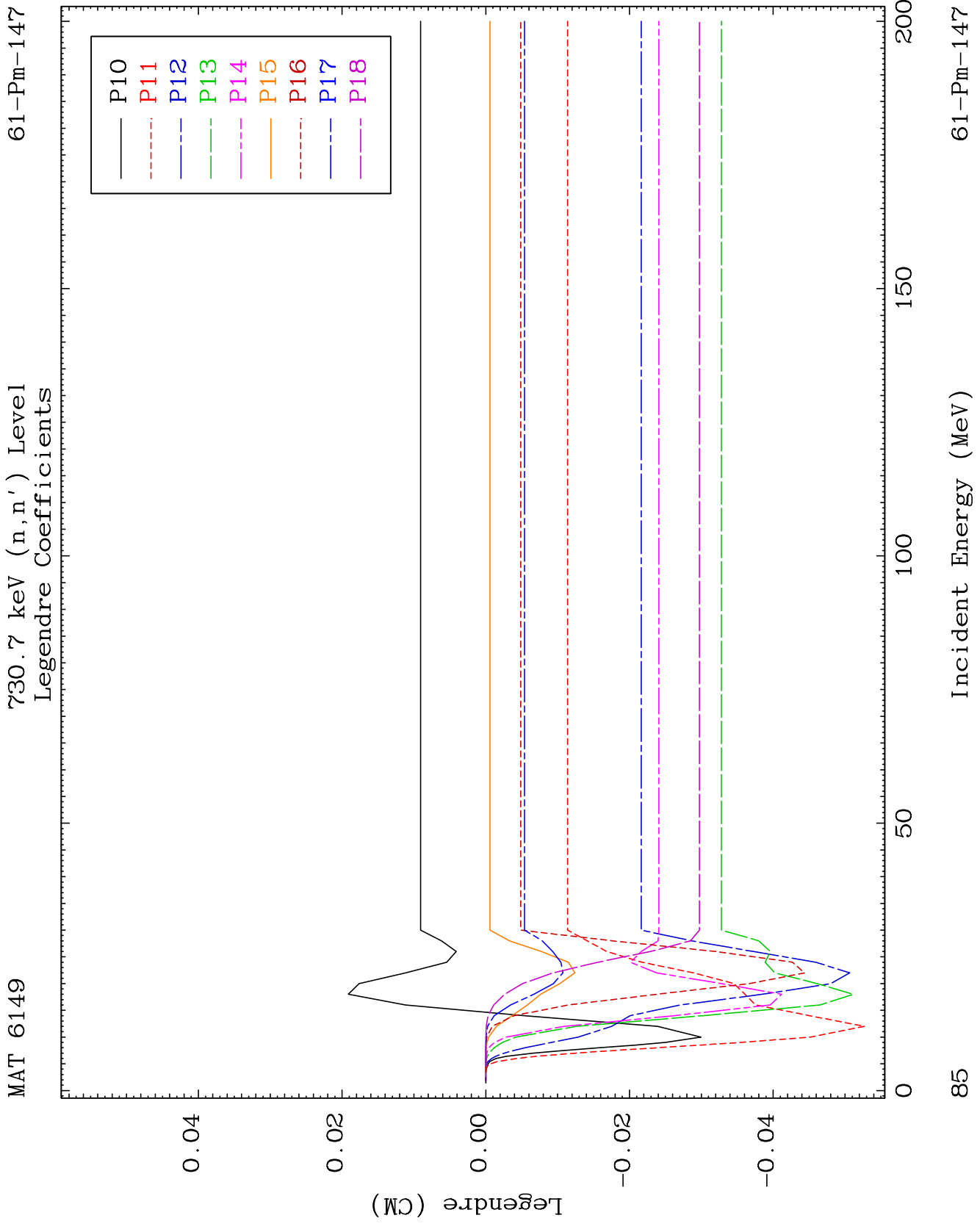
61-Pm-147

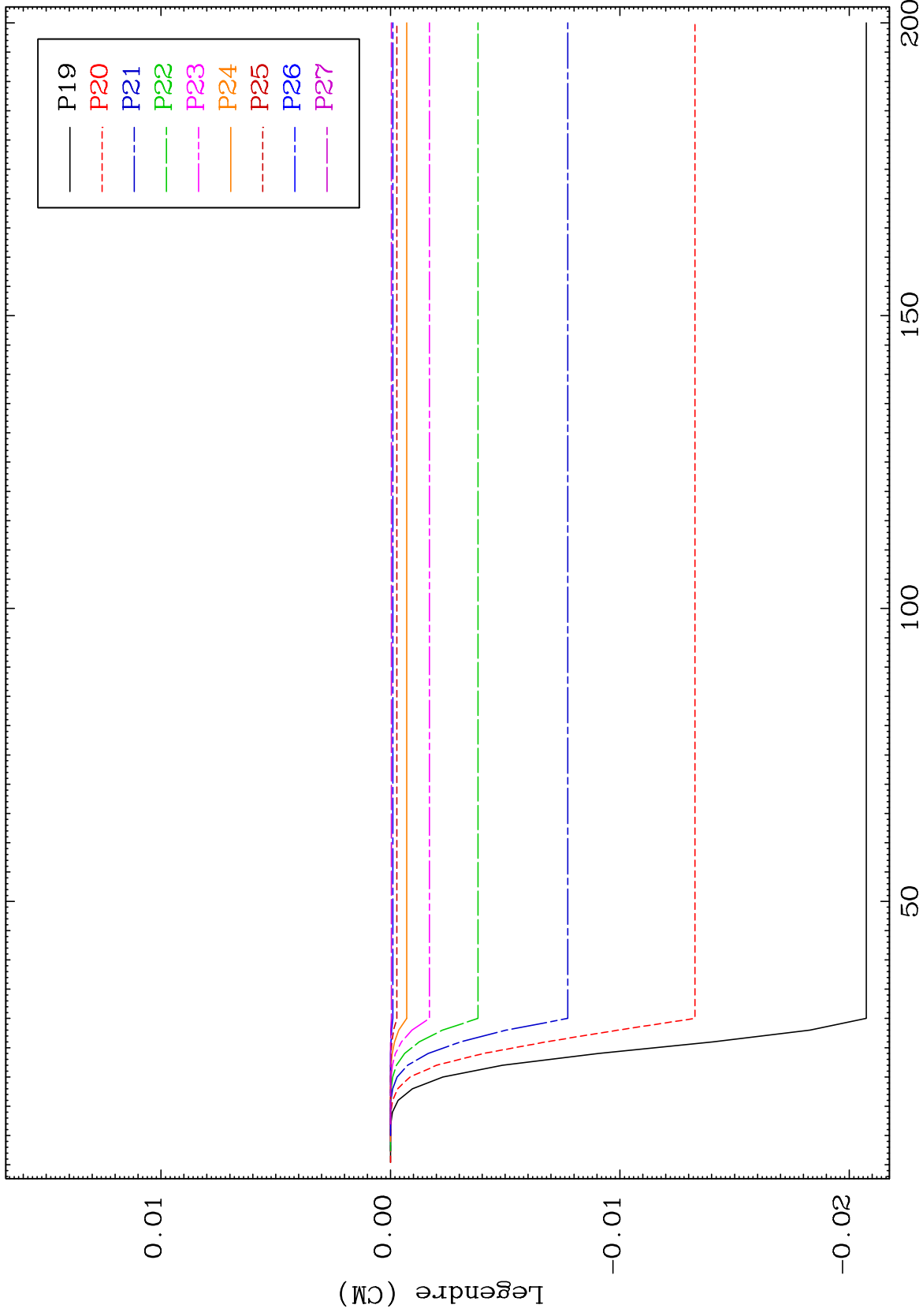


84

Incident Energy (MeV)

61-Pm-147







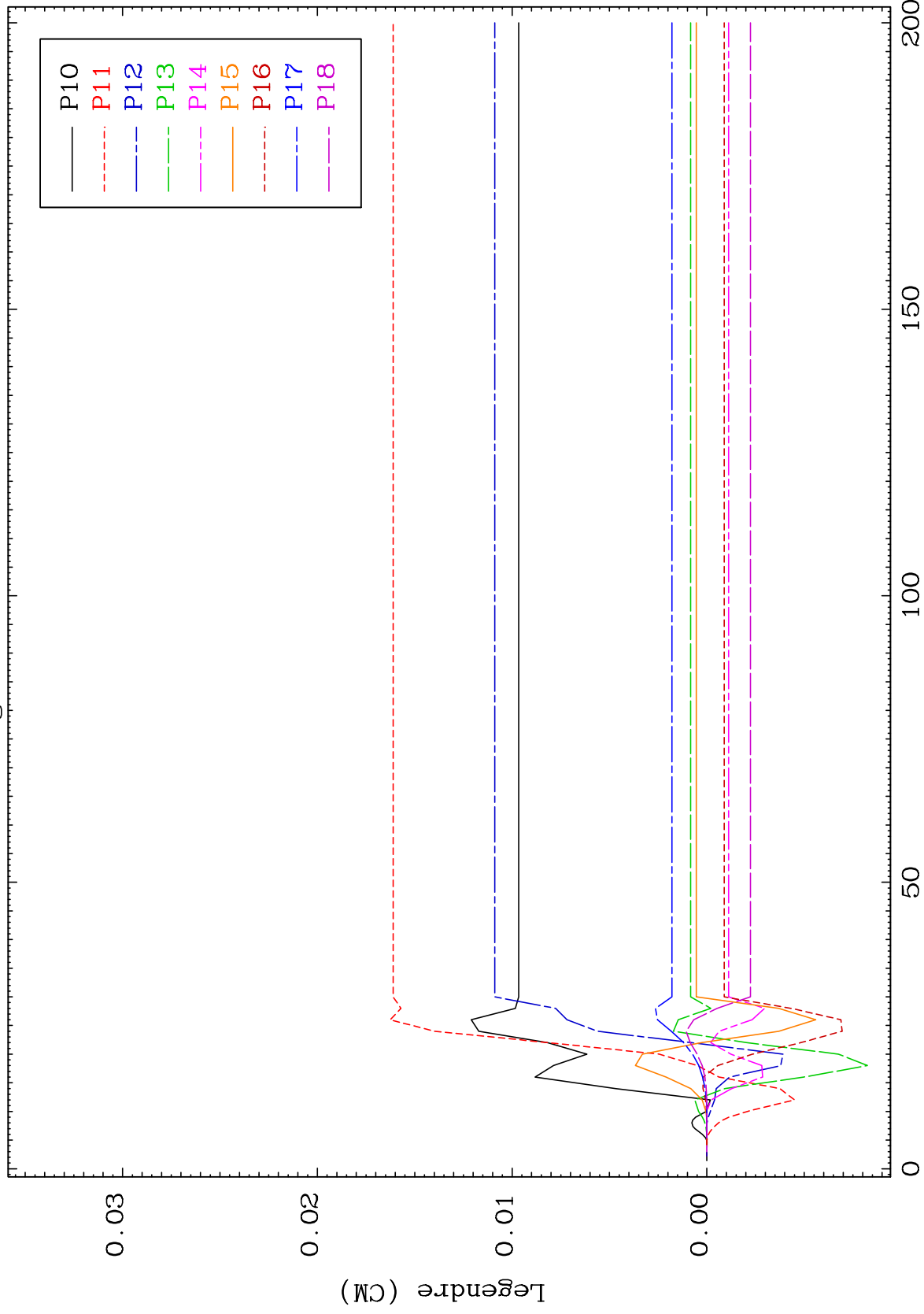




MAT 6149

807.2 keV (n,n') Level  
Legendre Coefficients

61-Pm-147



89

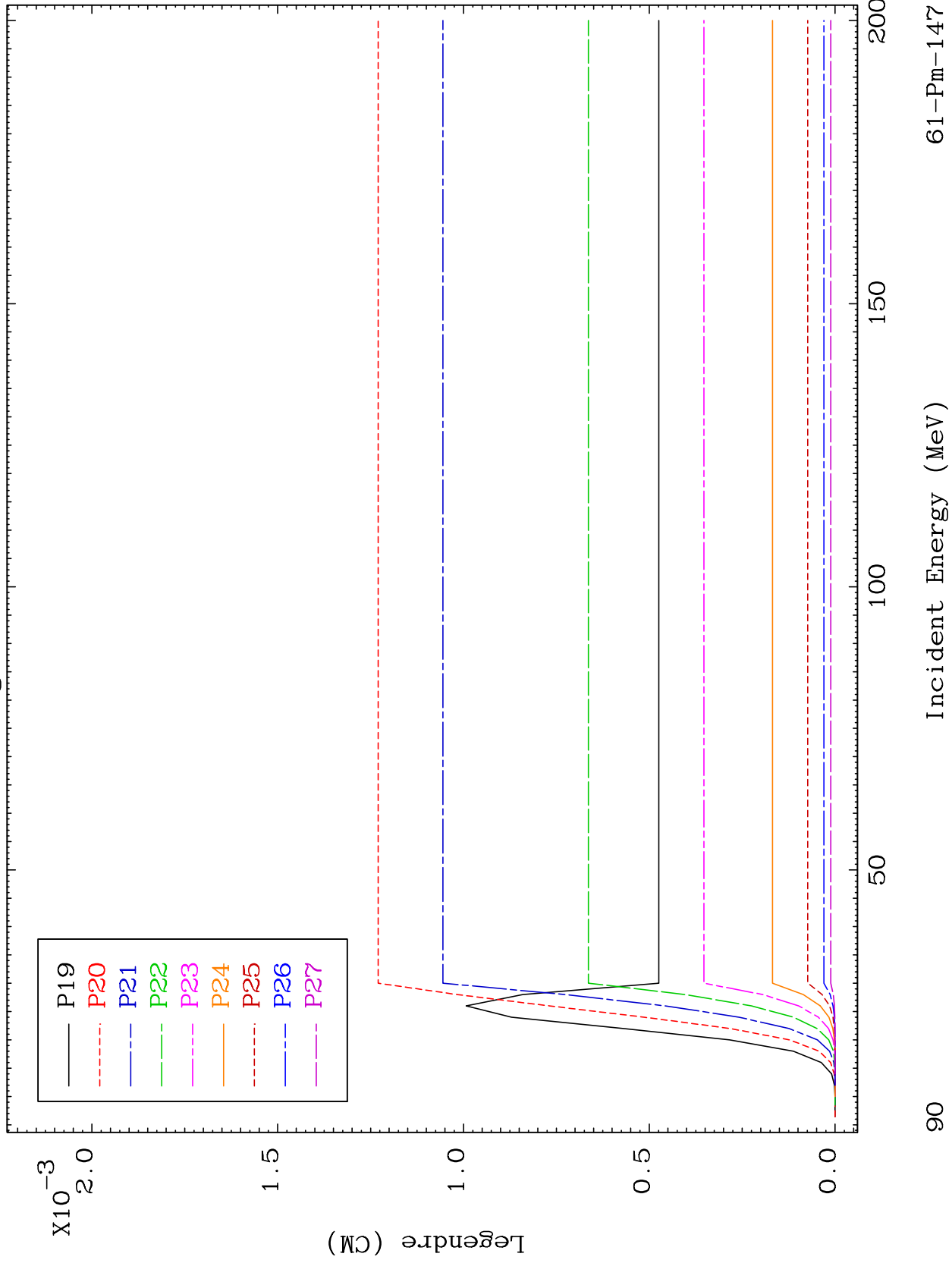
Incident Energy (MeV)

61-Pm-147

MAT 6149

807.2 keV (n,n') Level  
Legendre Coefficients

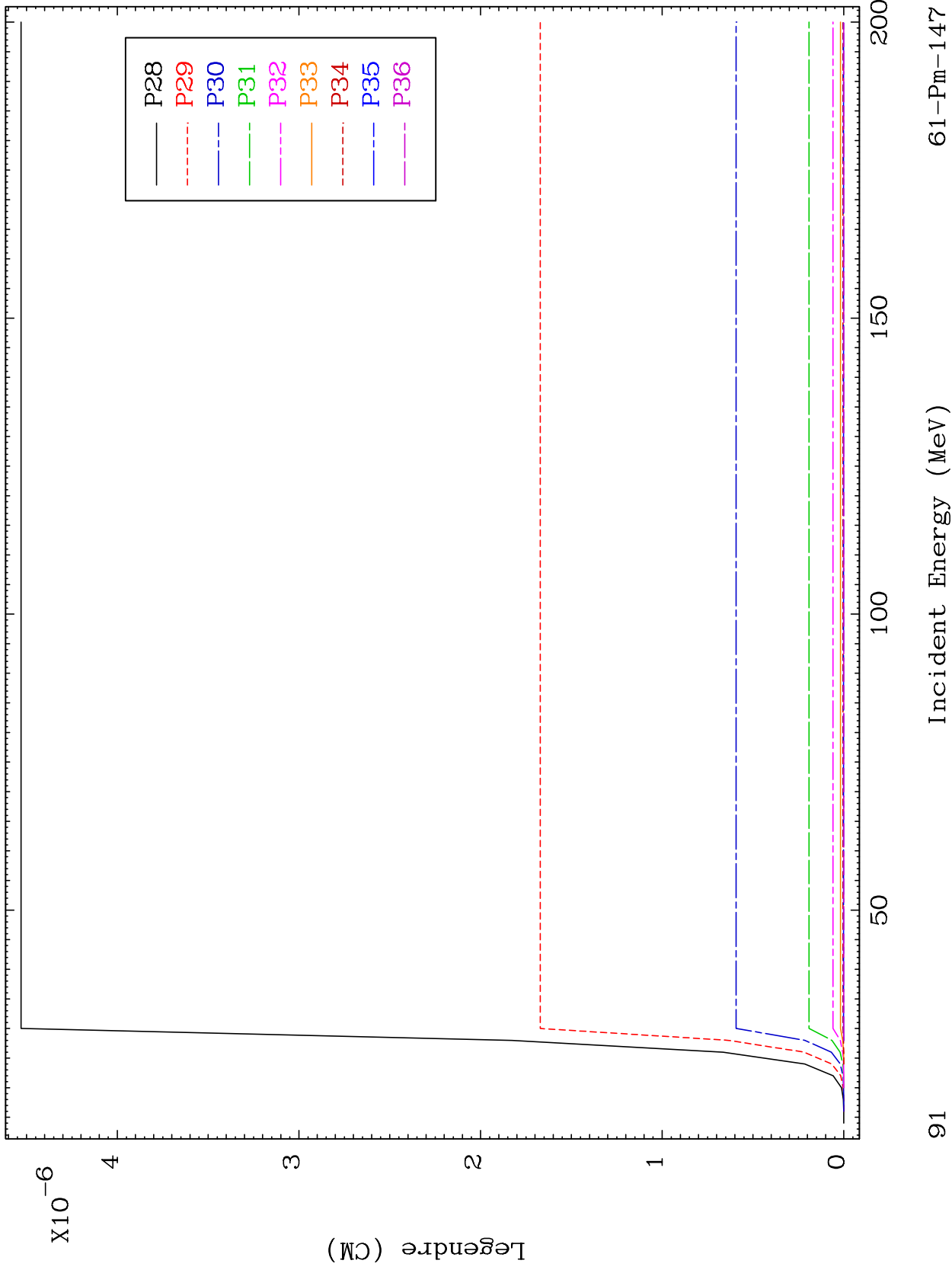
61-Pm-147

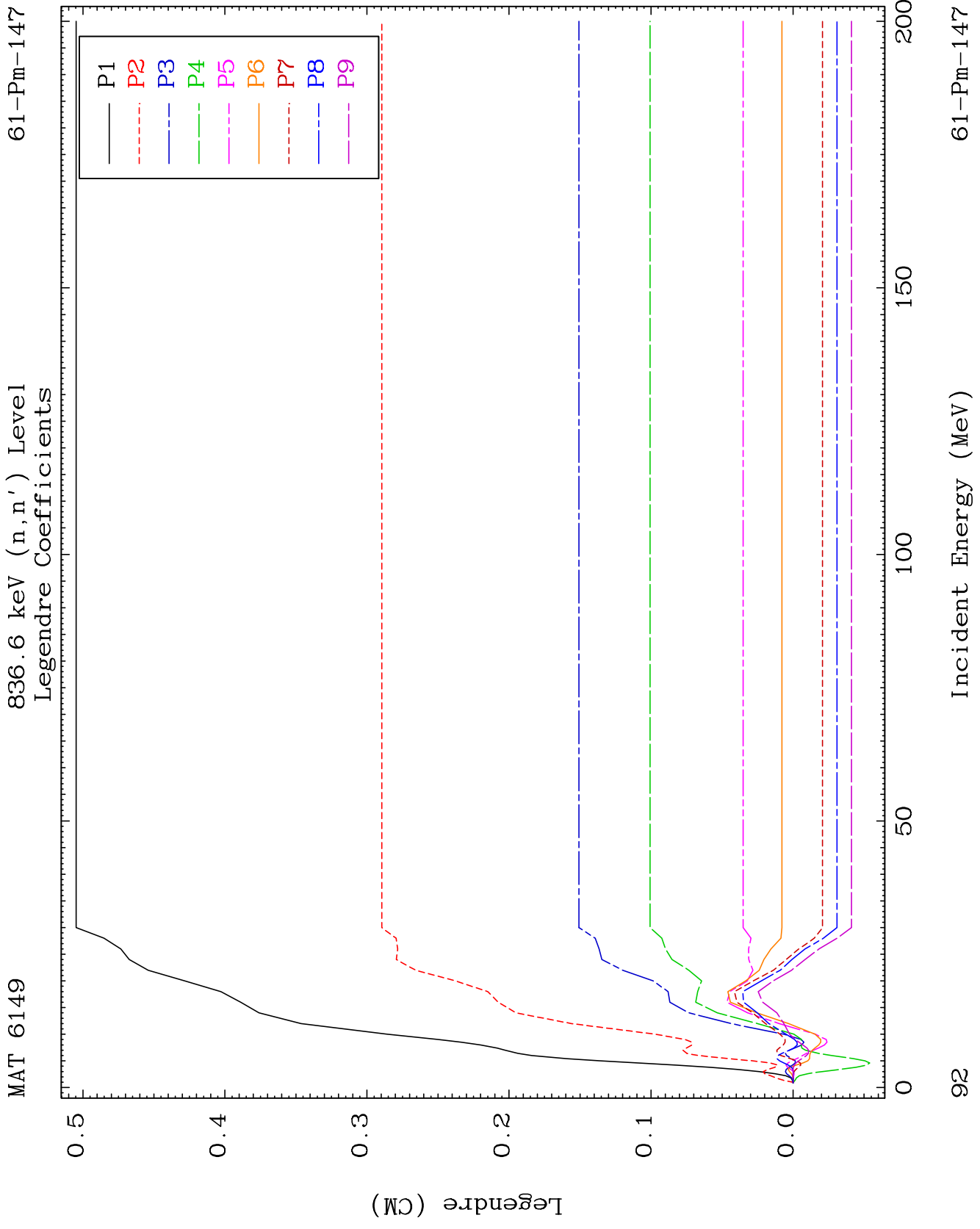


MAT 6149

807.2 keV (n,n') Level  
Legendre Coefficients

61-Pm-147

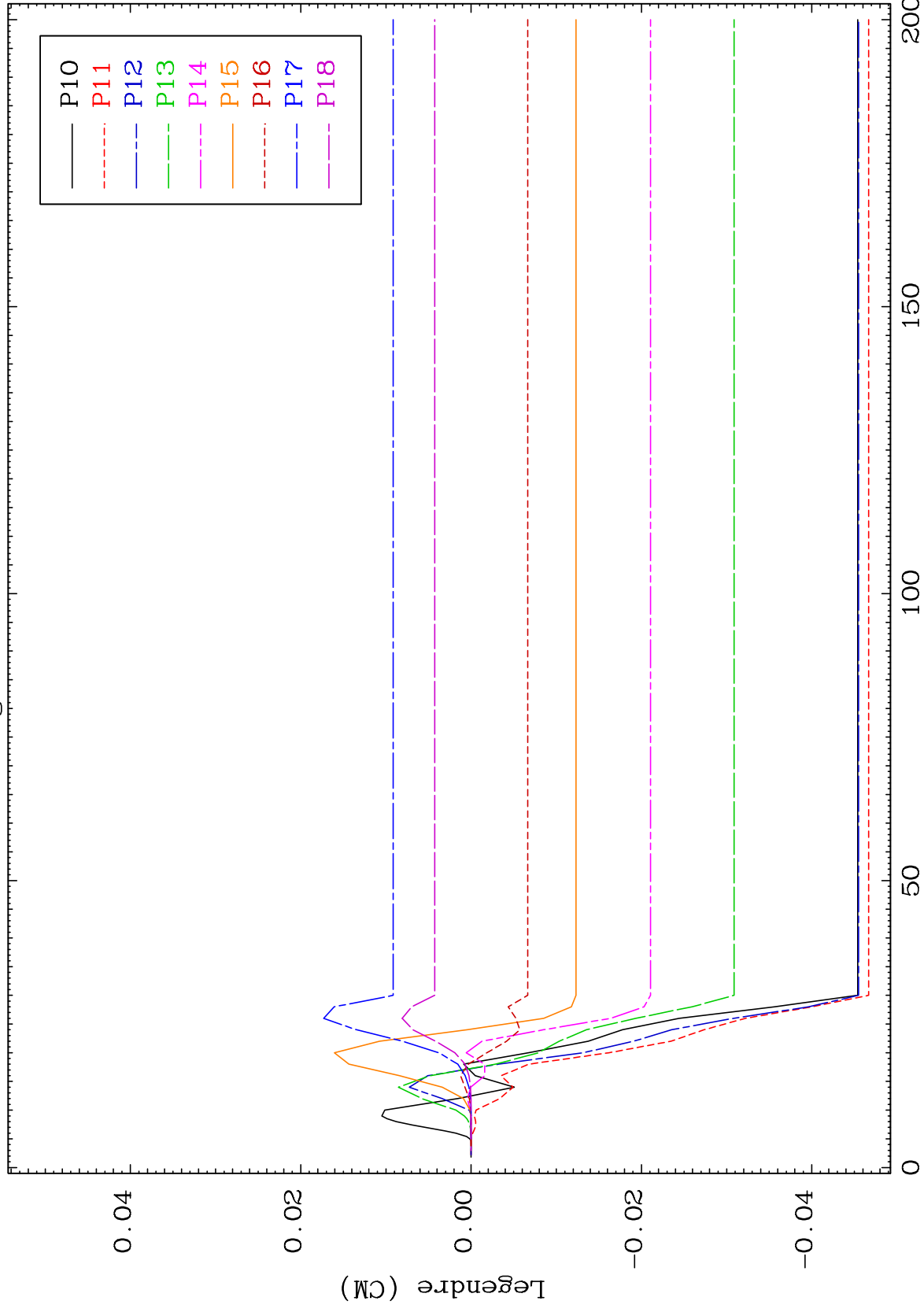




MAT 6149

836.6 keV (n,n') Level  
Legendre Coefficients

61-Pm-147



93

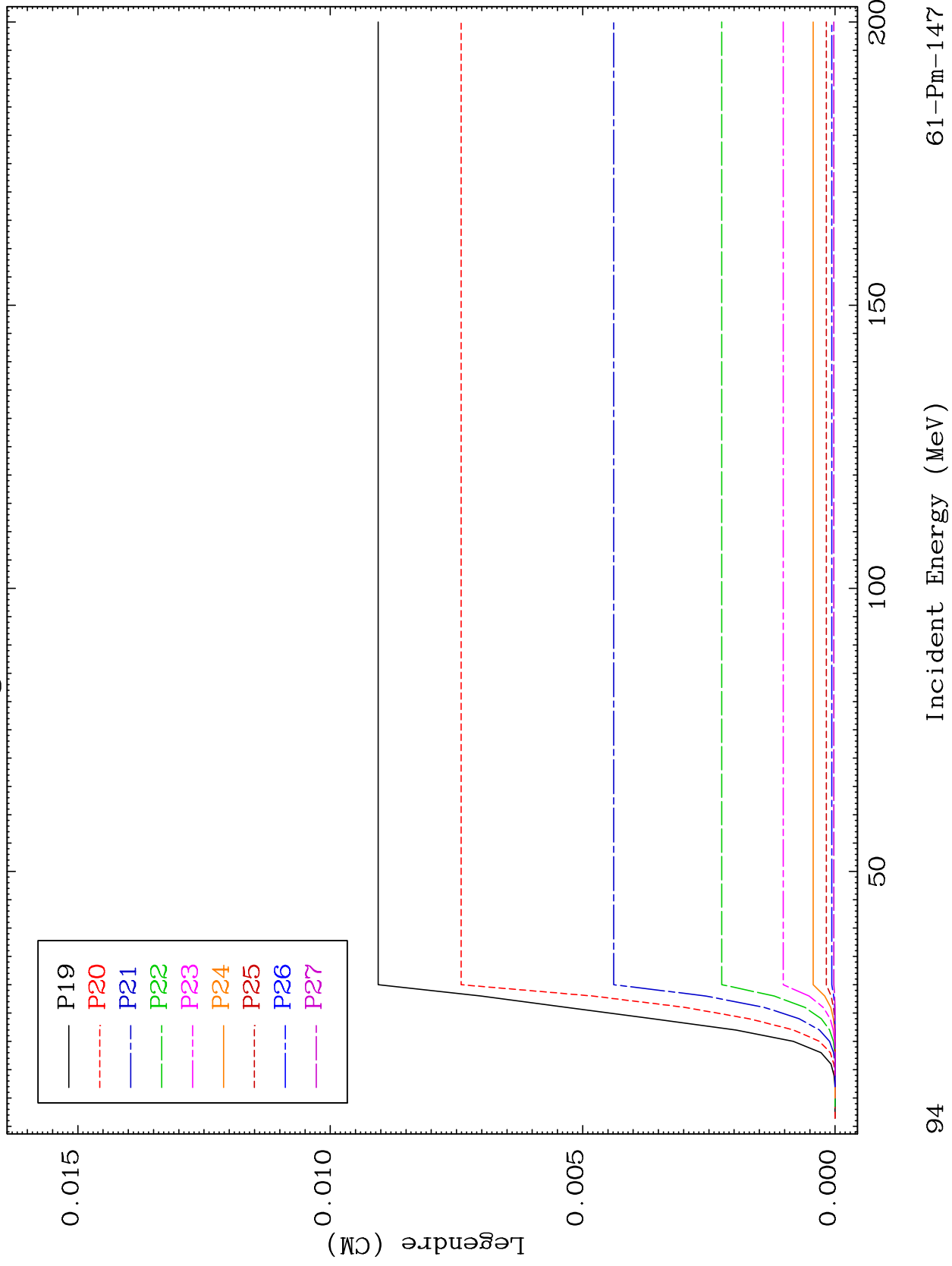
Incident Energy (MeV)

61-Pm-147

MAT 6149

836.6 keV (n,n') Level  
Legendre Coefficients

61-Pm-147



94

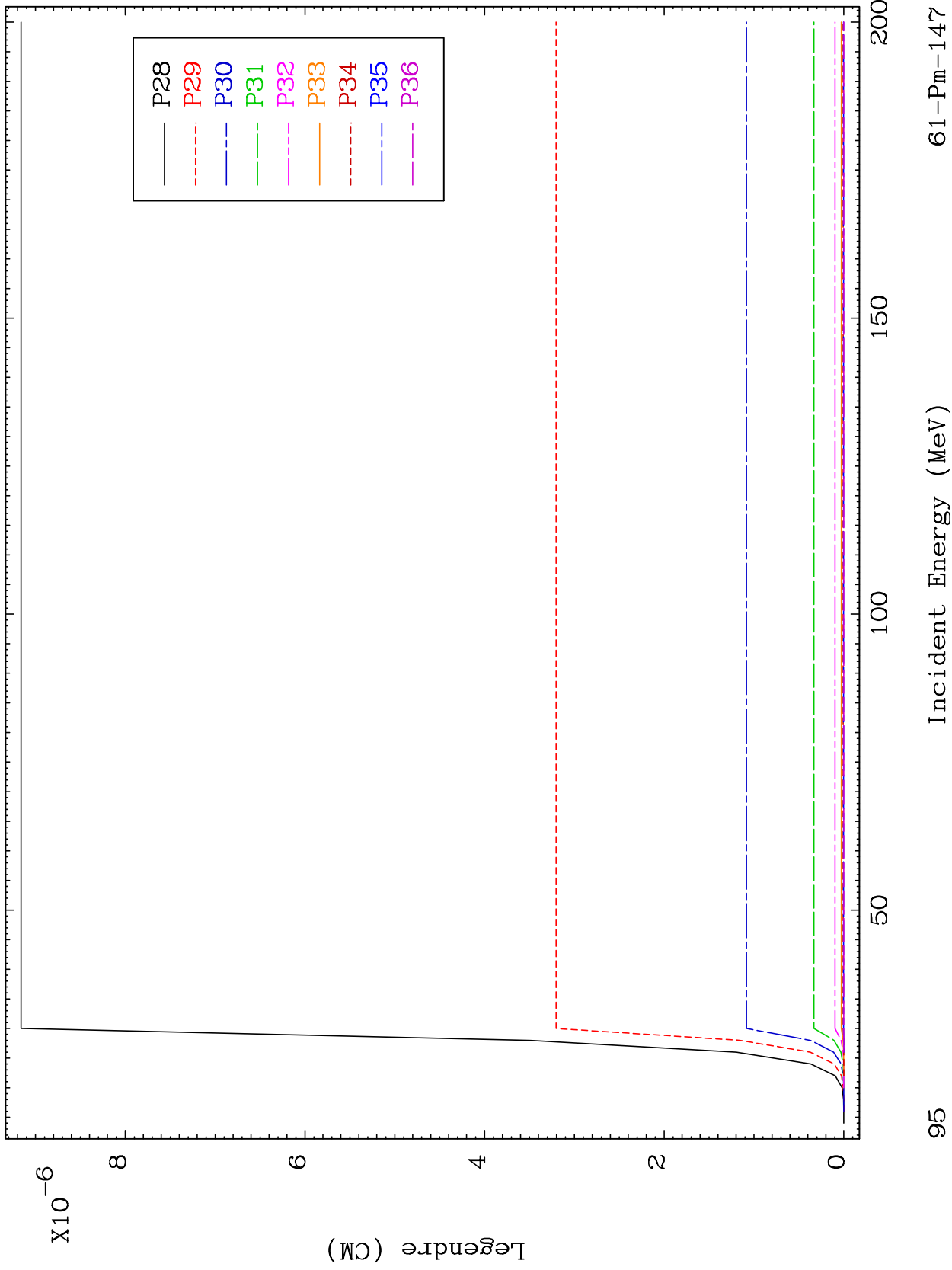
Incident Energy (MeV)

61-Pm-147

MAT 6149

836.6 keV (n,n') Level  
Legendre Coefficients

61-Pm-147

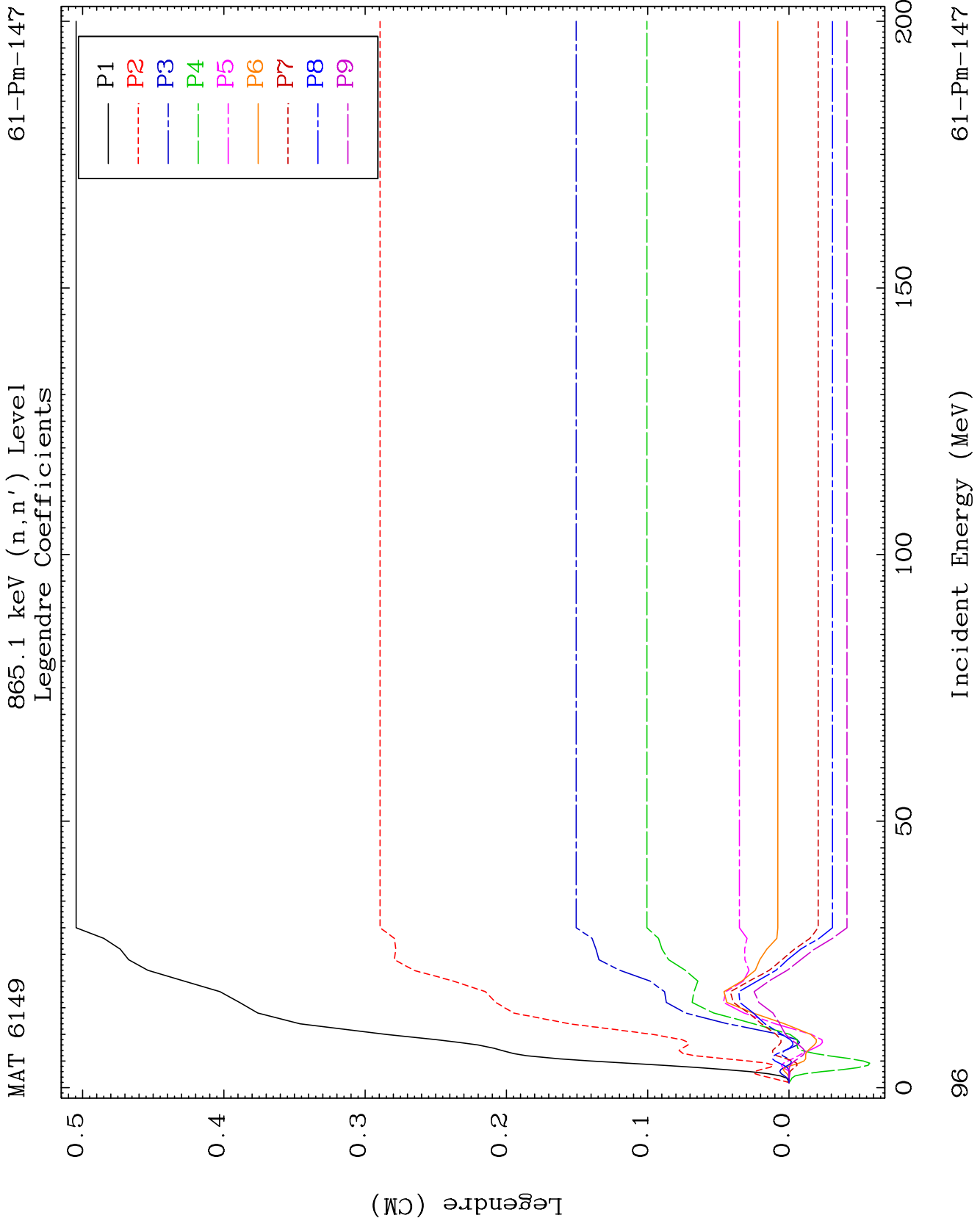


95

Incident Energy (MeV)

61-Pm-147

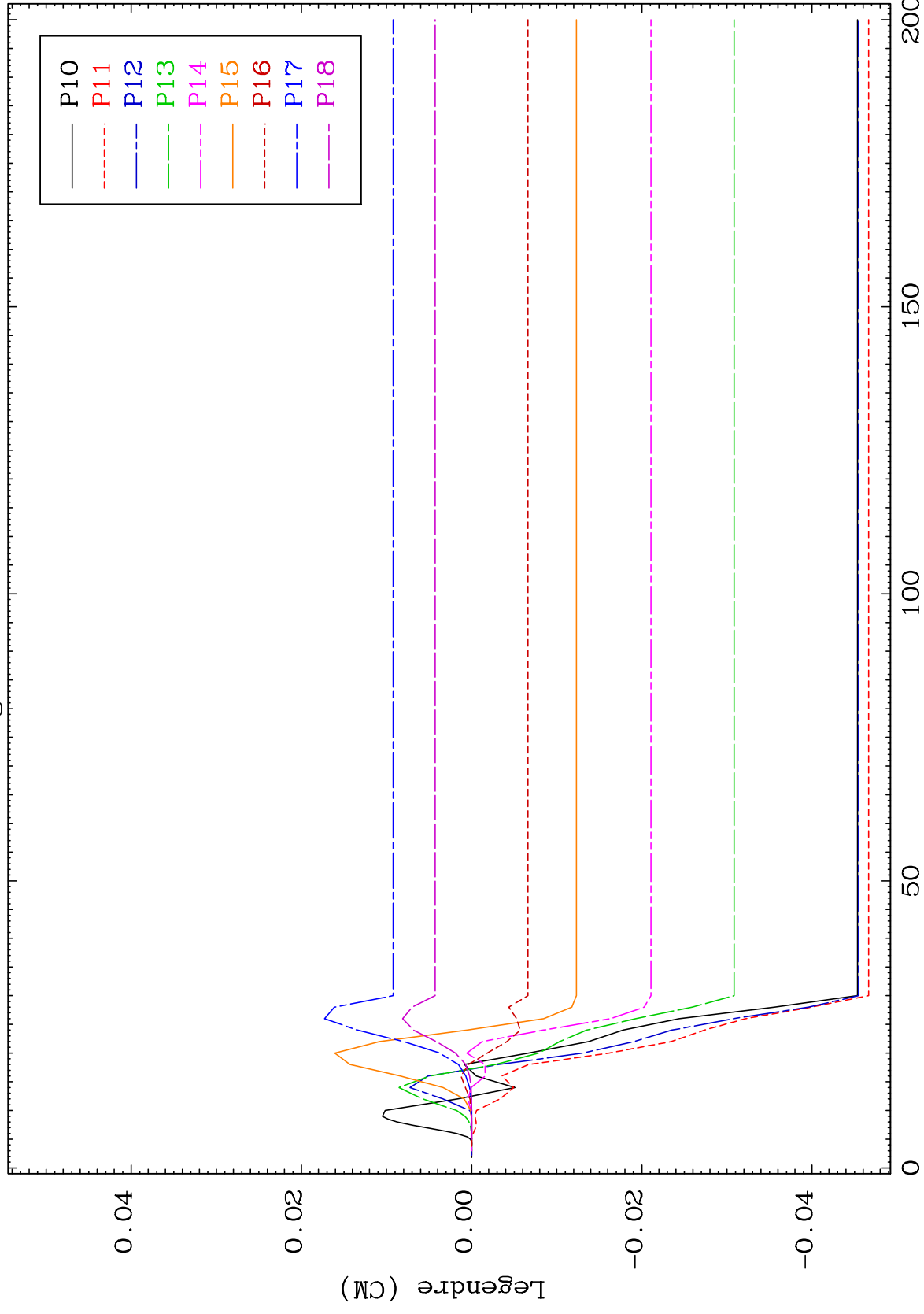




MAT 6149

865.1 keV (n,n') Level  
Legendre Coefficients

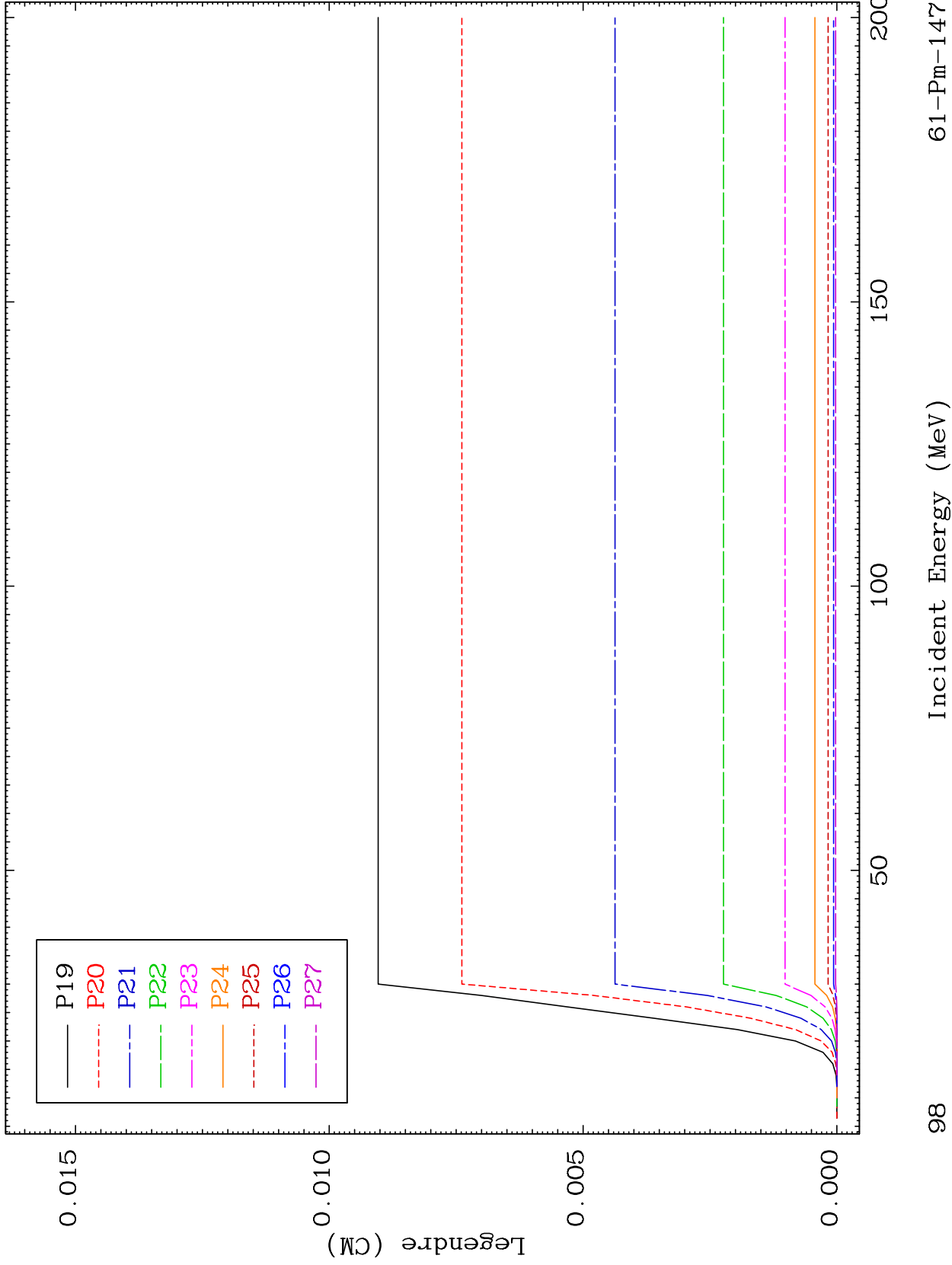
61-Pm-147



97

Incident Energy (MeV)

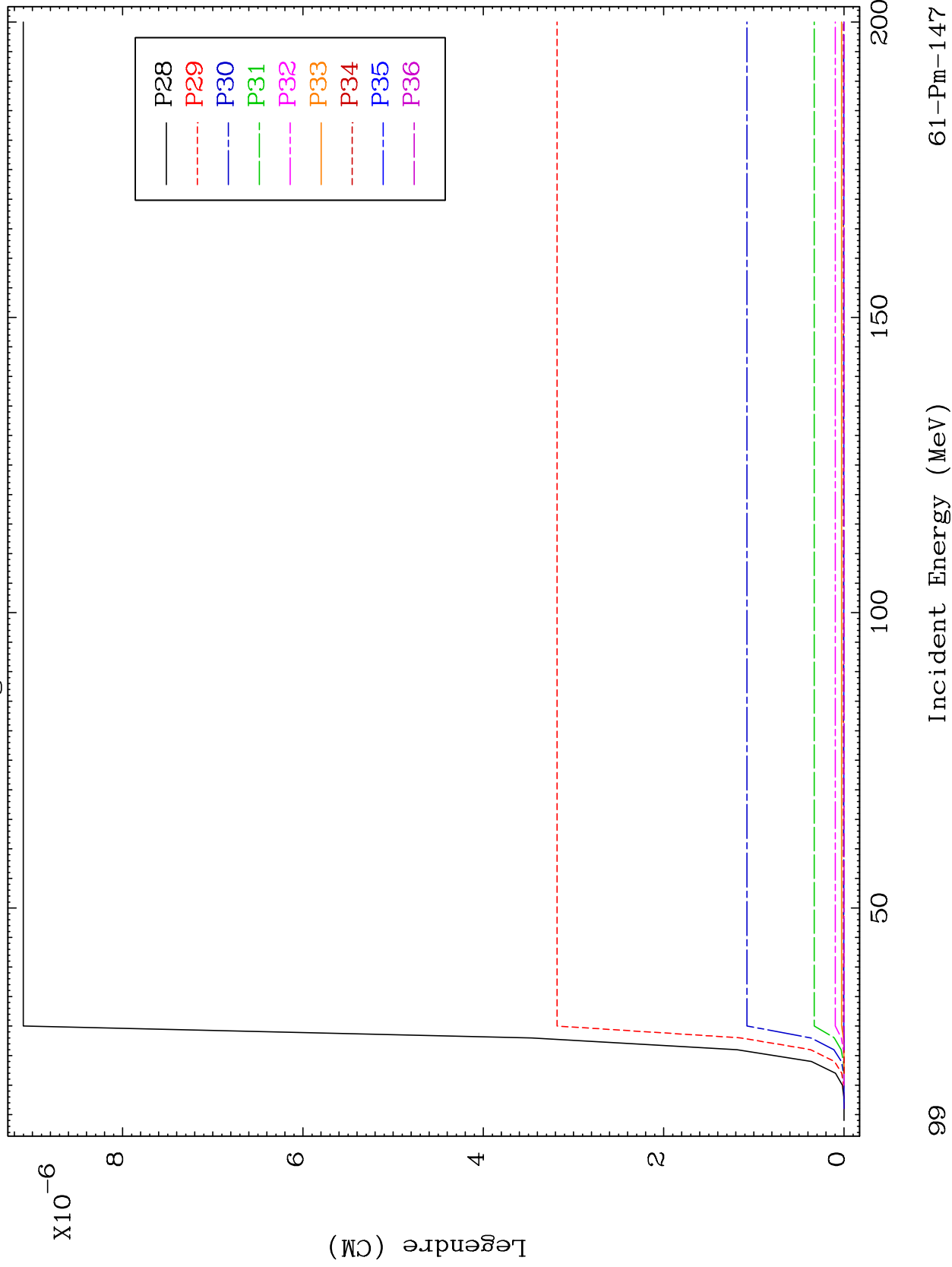
61-Pm-147



MAT 6149

865.1 keV (n,n') Level  
Legendre Coefficients

61-Pm-147

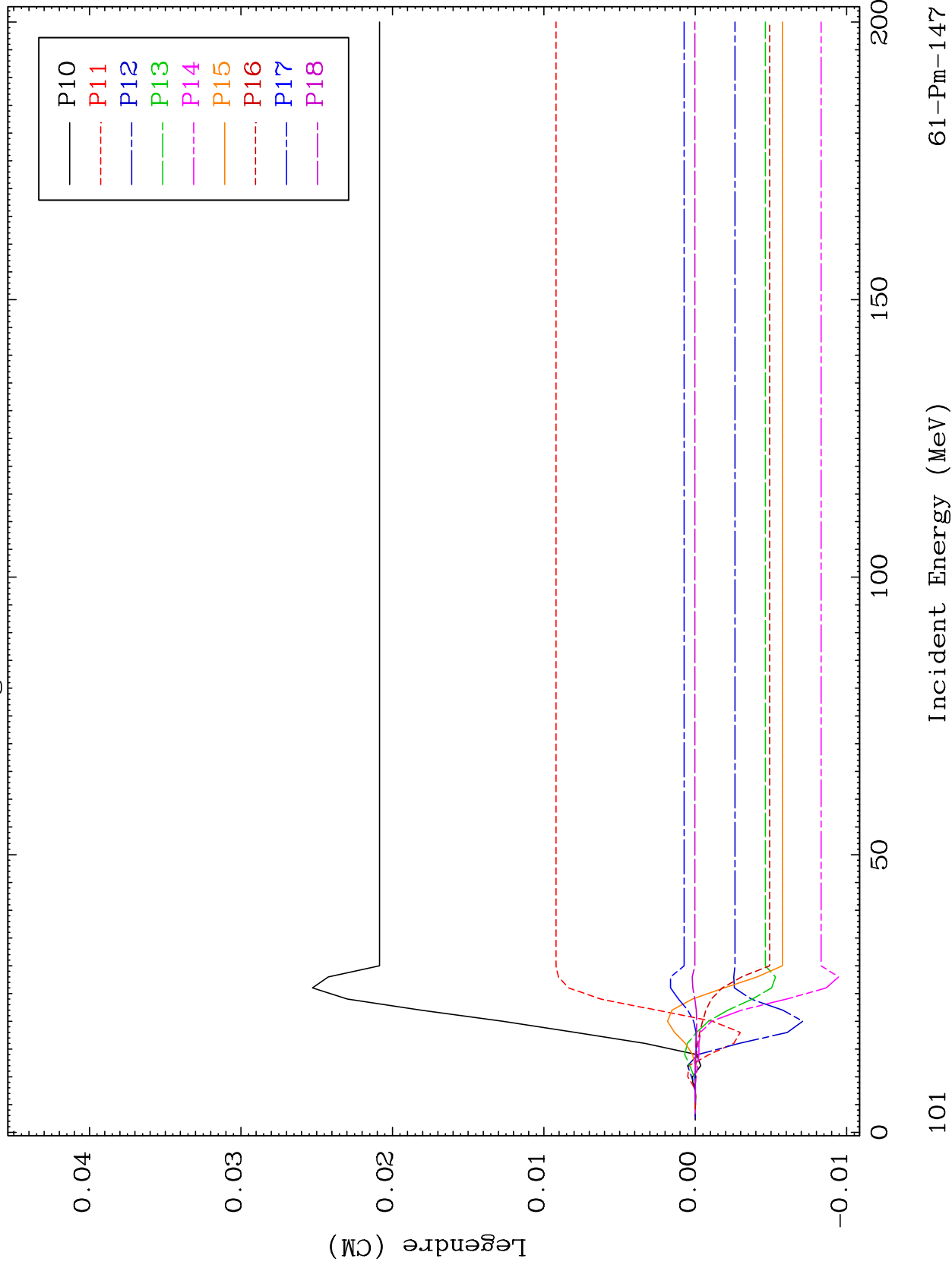




MAT 6149

880.0 keV (n,n') Level  
Legendre Coefficients

61-Pm-147



101

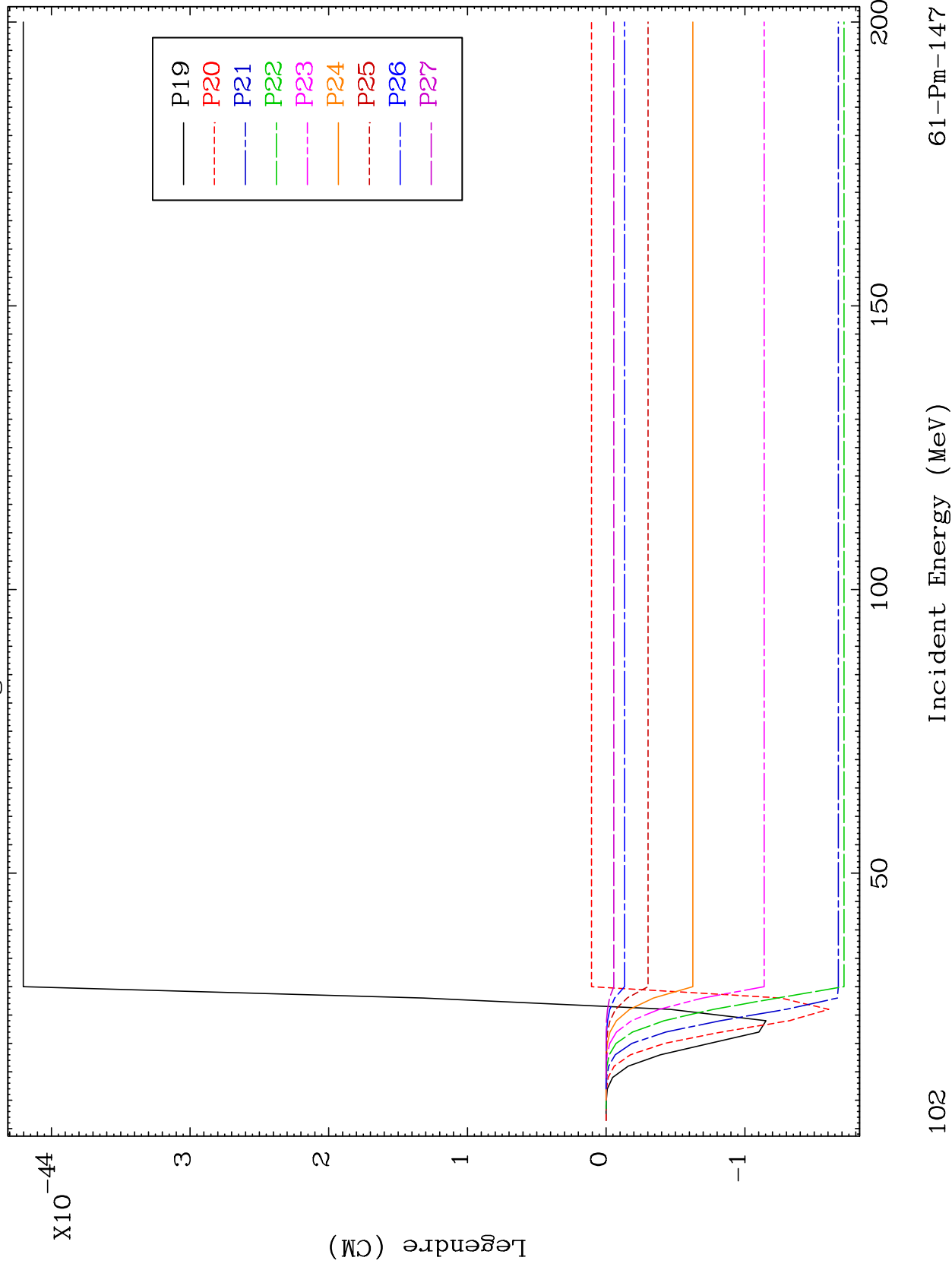
Incident Energy (MeV)

61-Pm-147

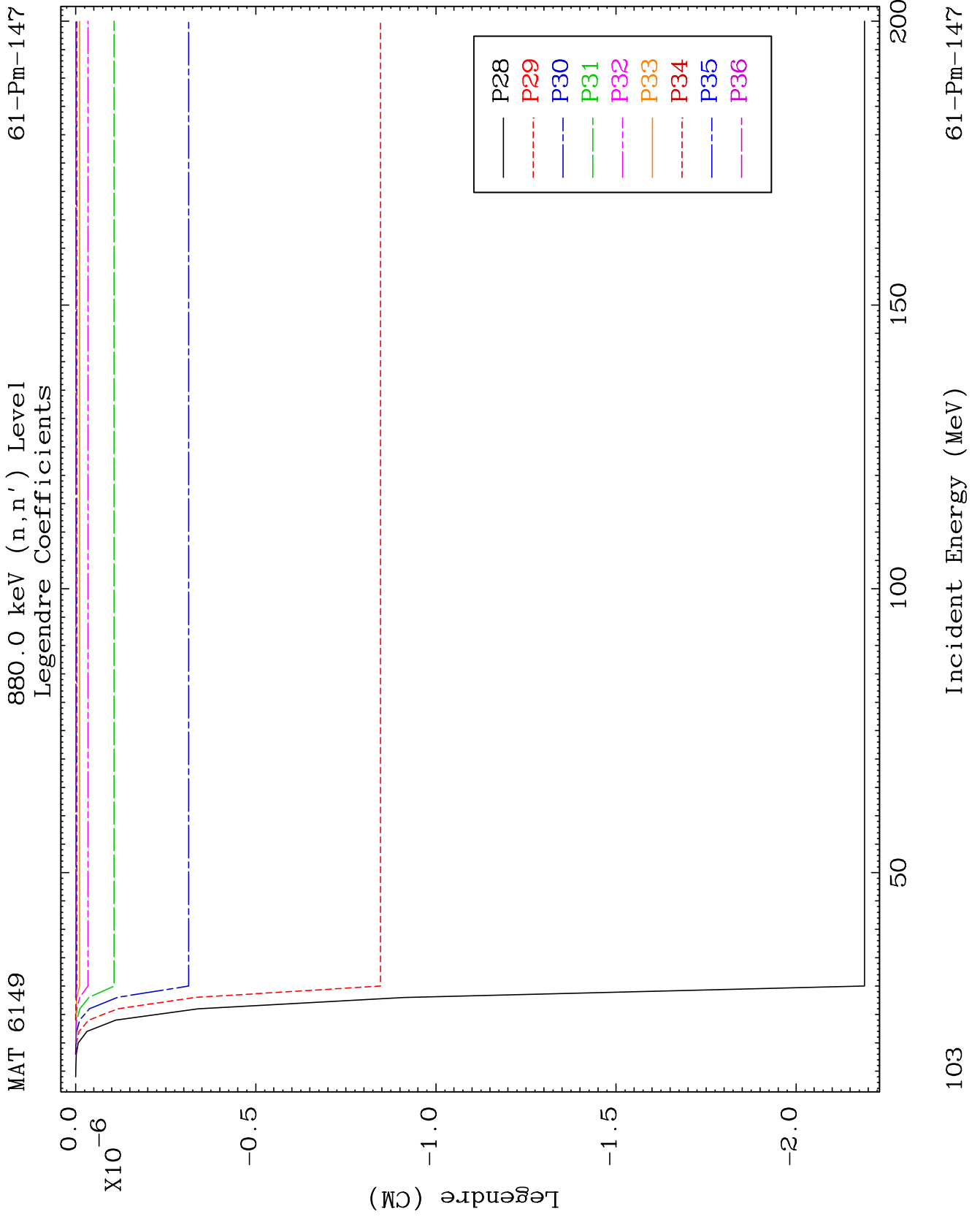
MAT 6149

880.0 keV (n,n') Level  
Legendre Coefficients

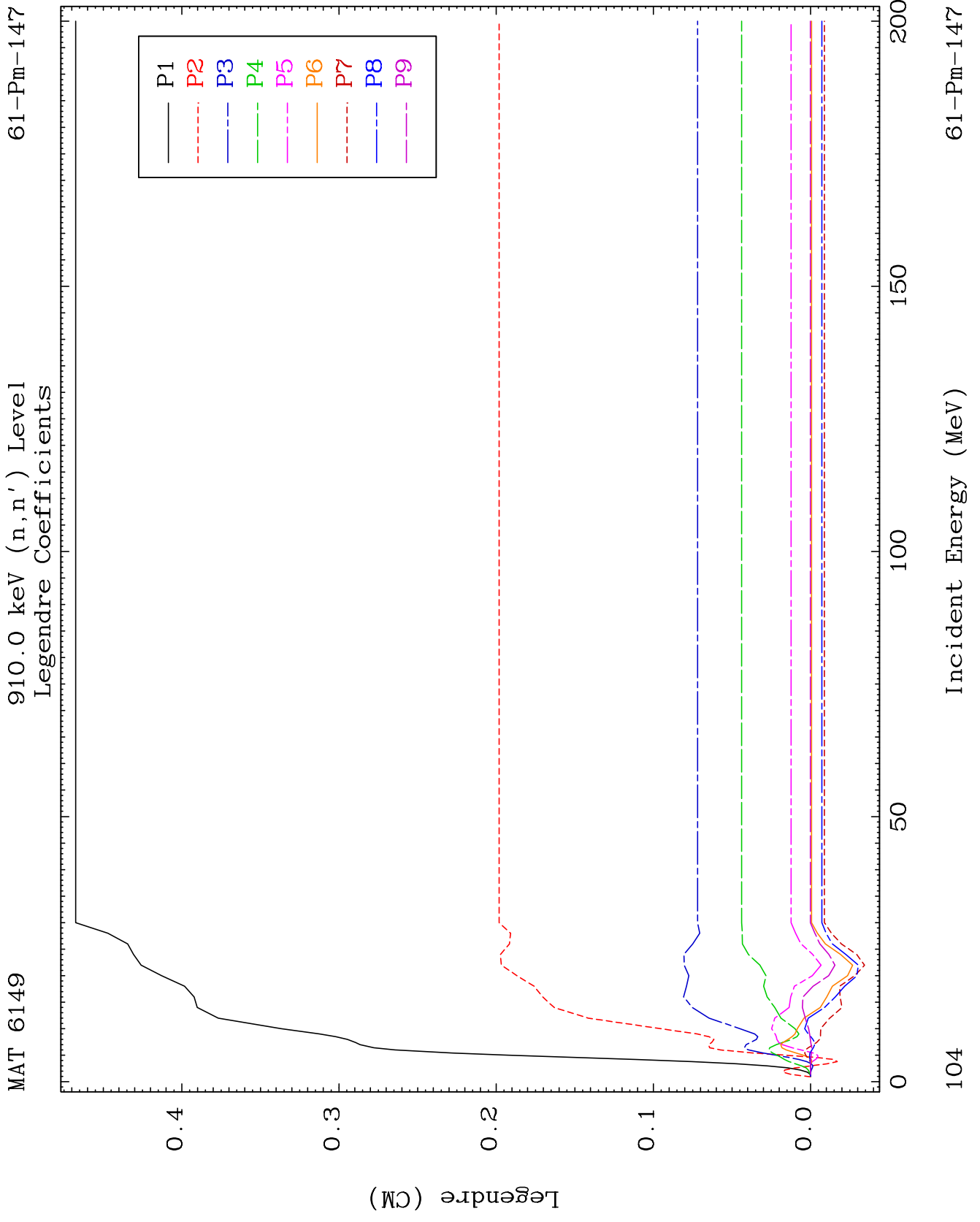
61-Pm-147

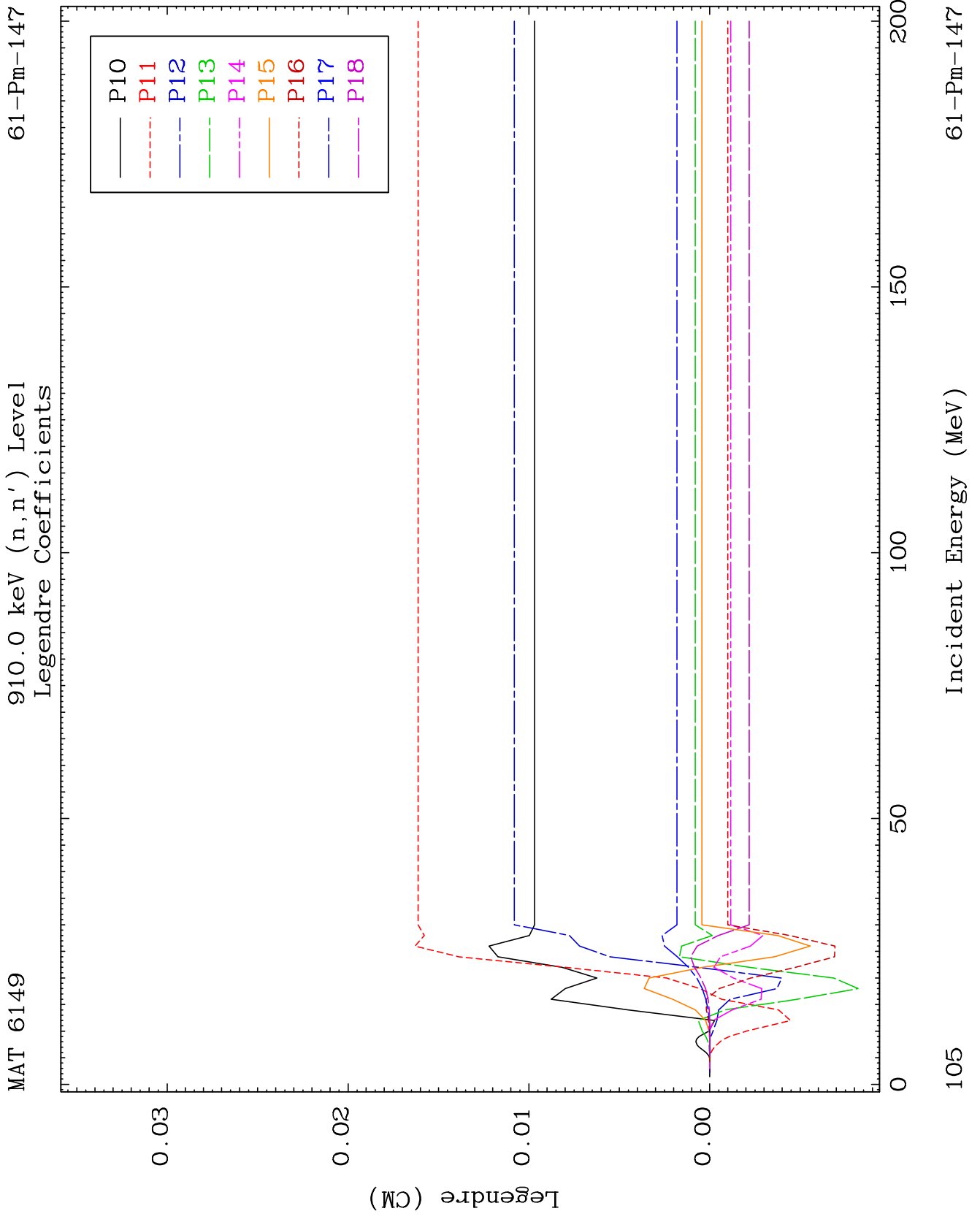


102





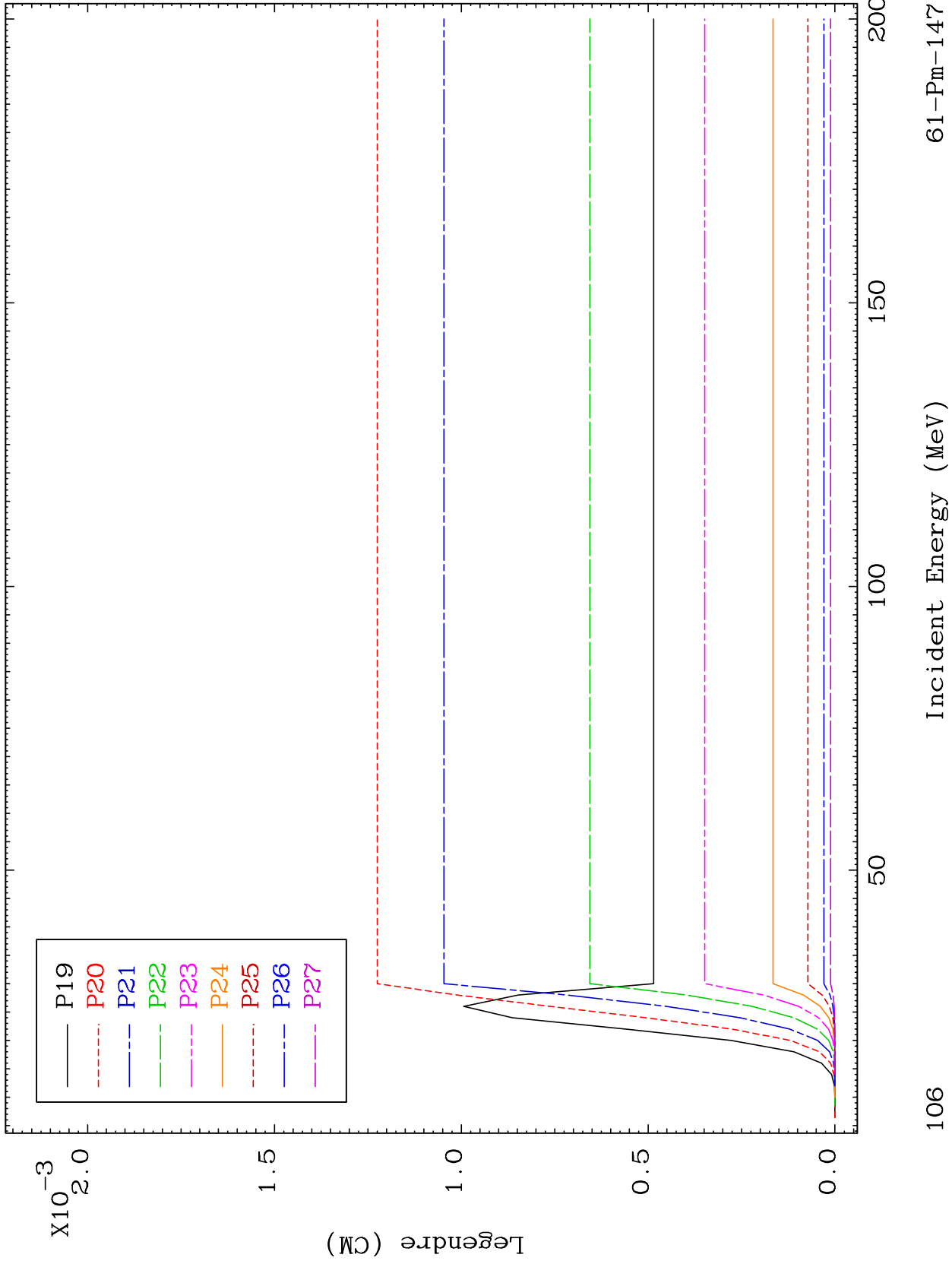




MAT 6149

910.0 keV (n,n') Level  
Legendre Coefficients

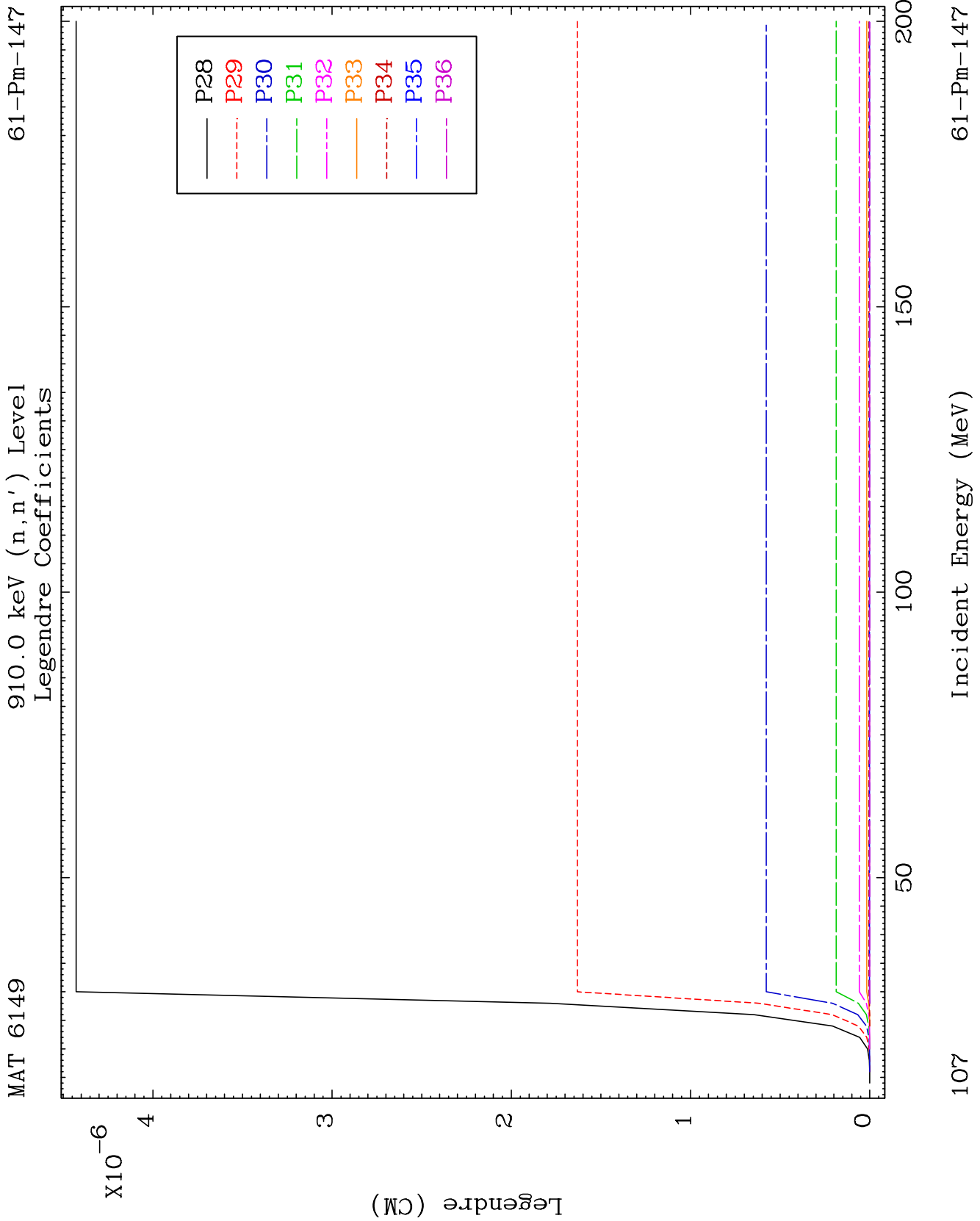
61-Pm-147



106

Incident Energy (MeV)

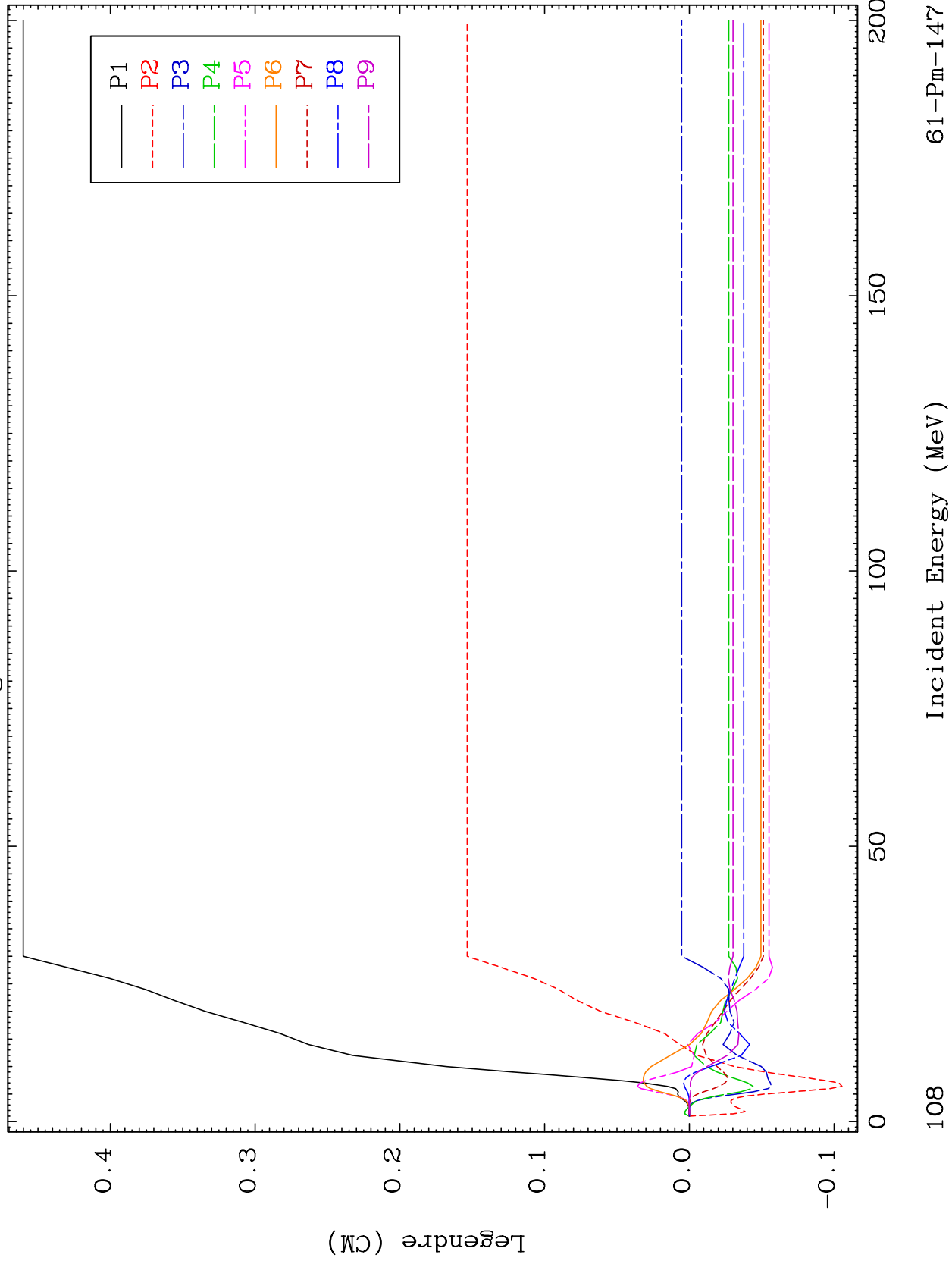
61-Pm-147



MAT 6149

931.0 keV (n,n') Level  
Legendre Coefficients

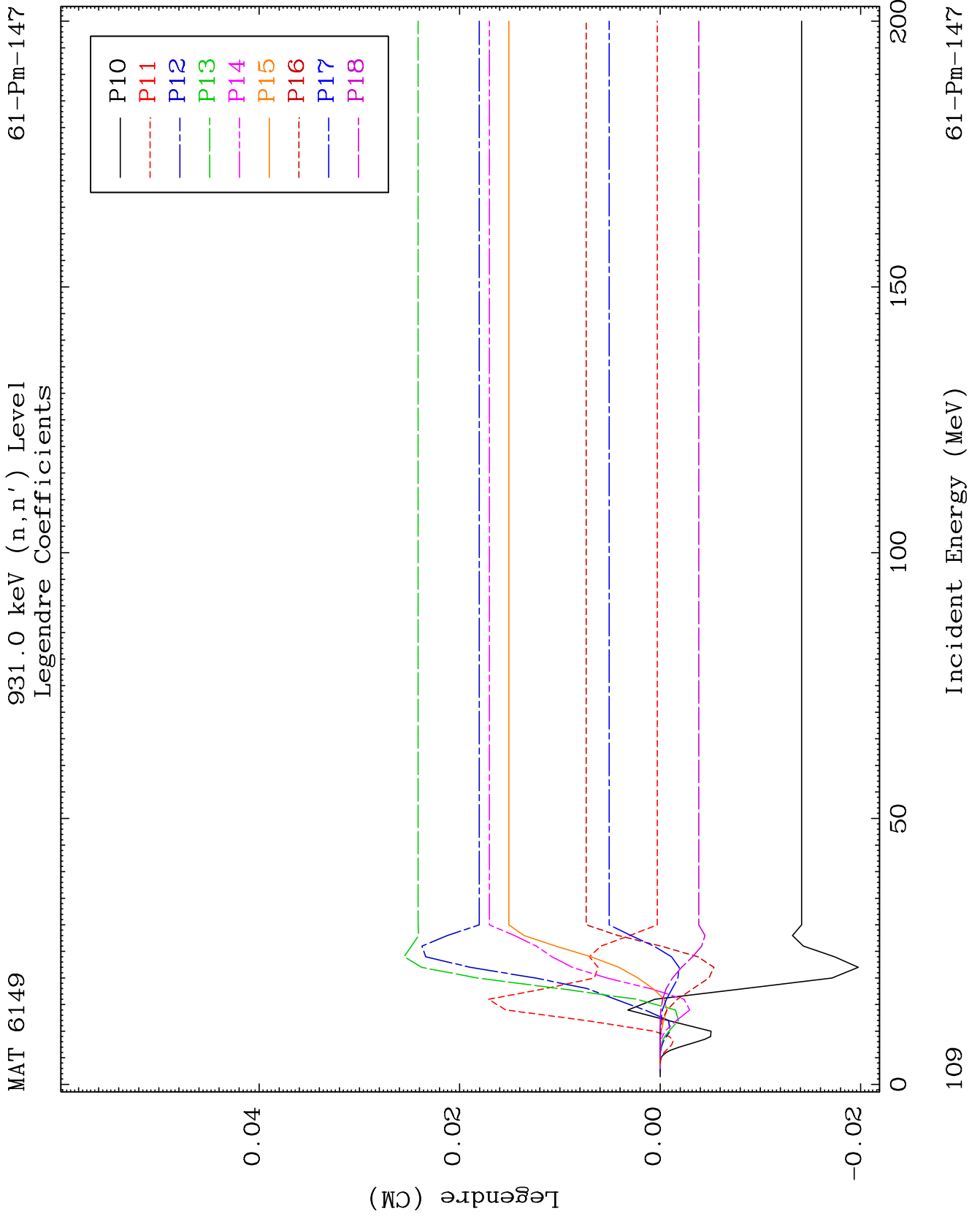
61-Pm-147



108

Incident Energy (MeV)

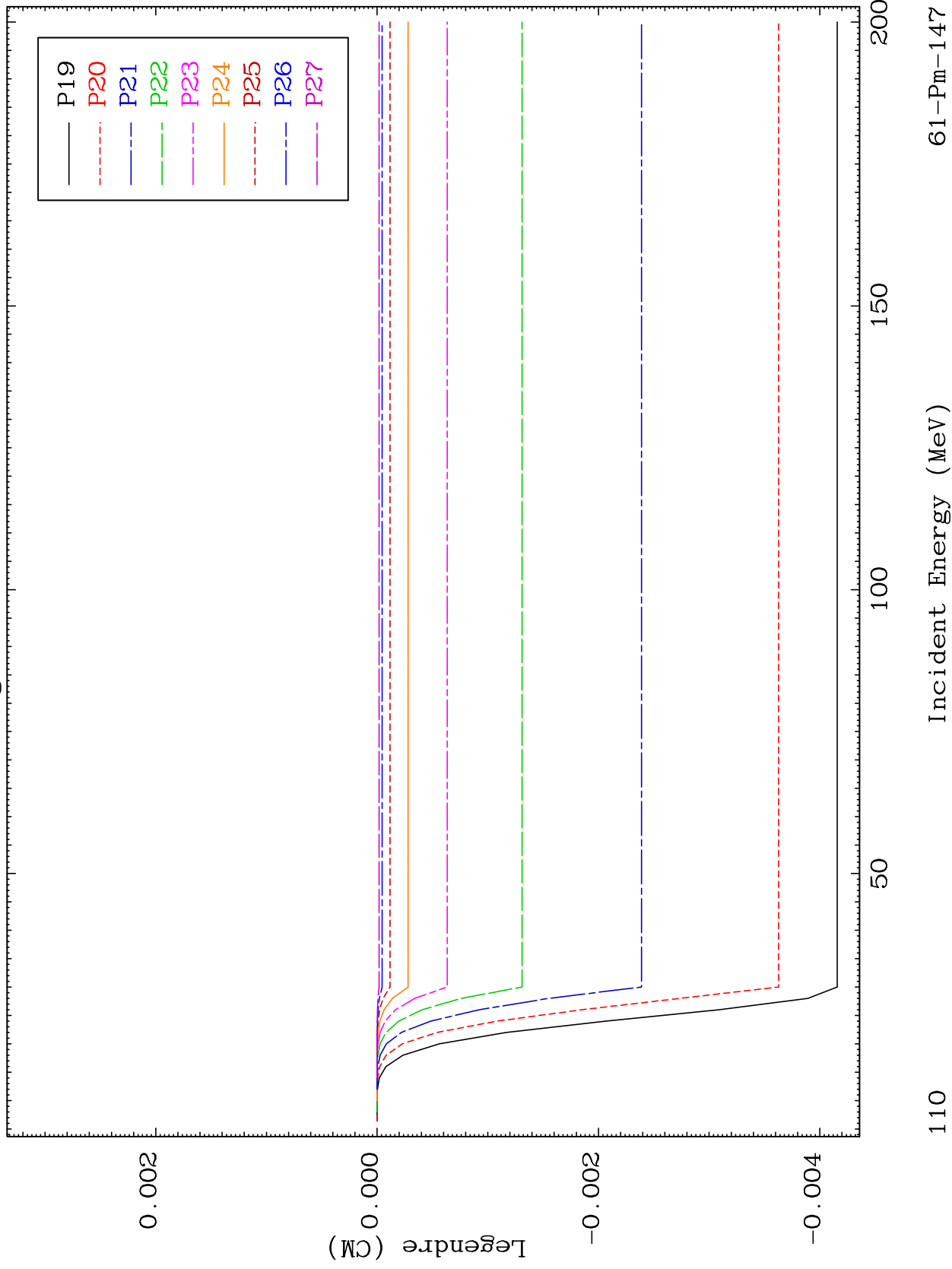
61-Pm-147



MAT 6149

931.0 keV (n,n') Level  
Legendre Coefficients

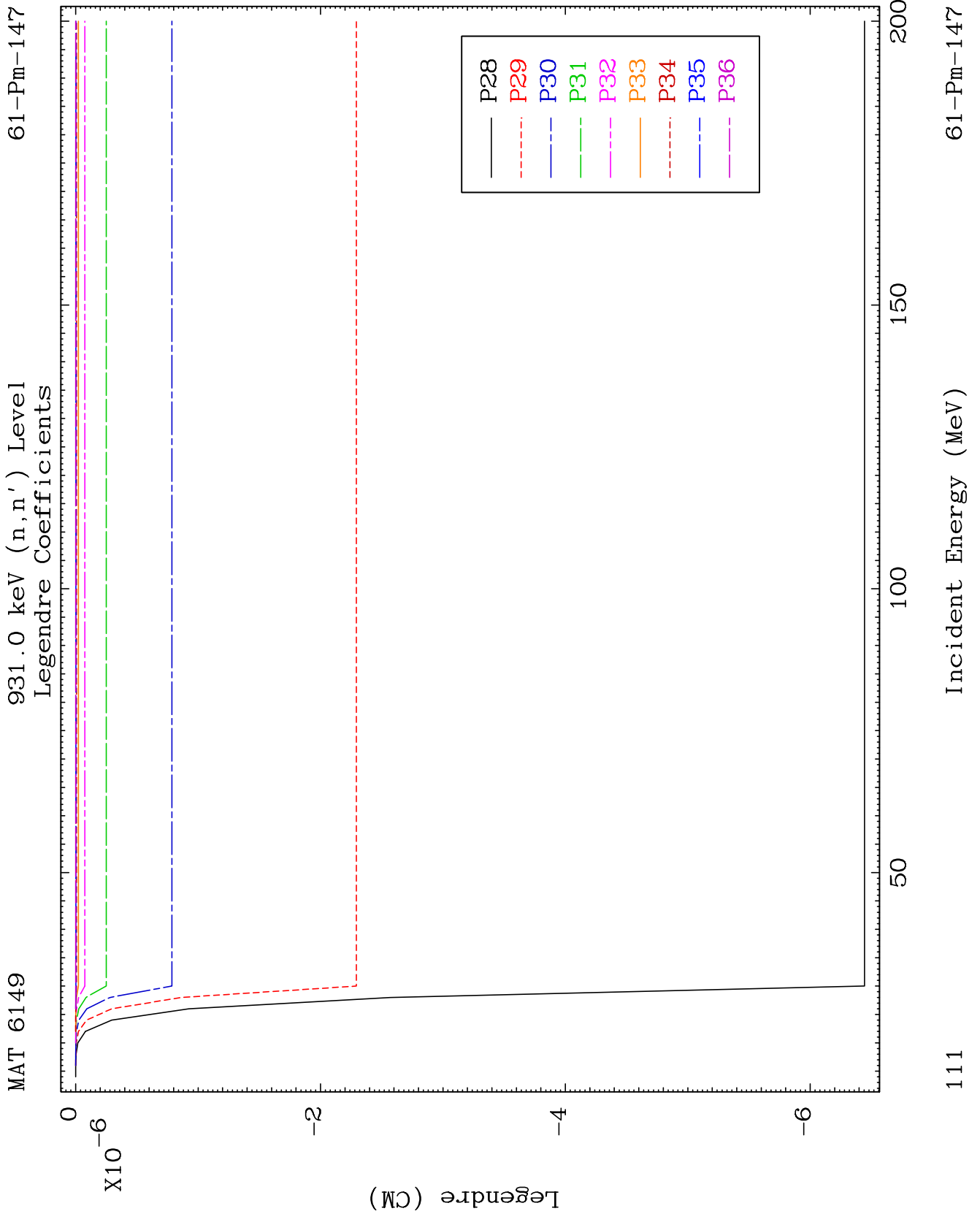
61-Pm-147



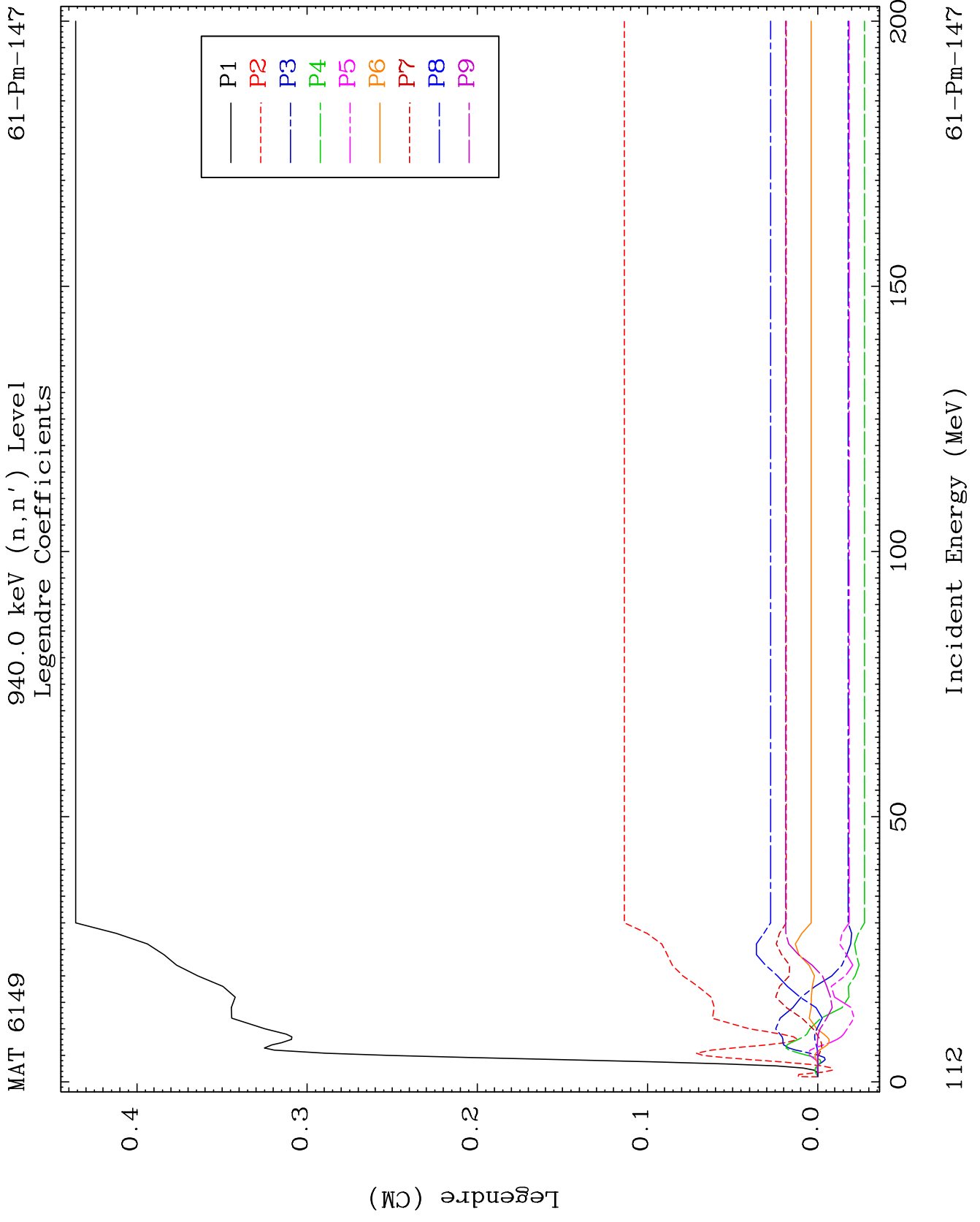
110

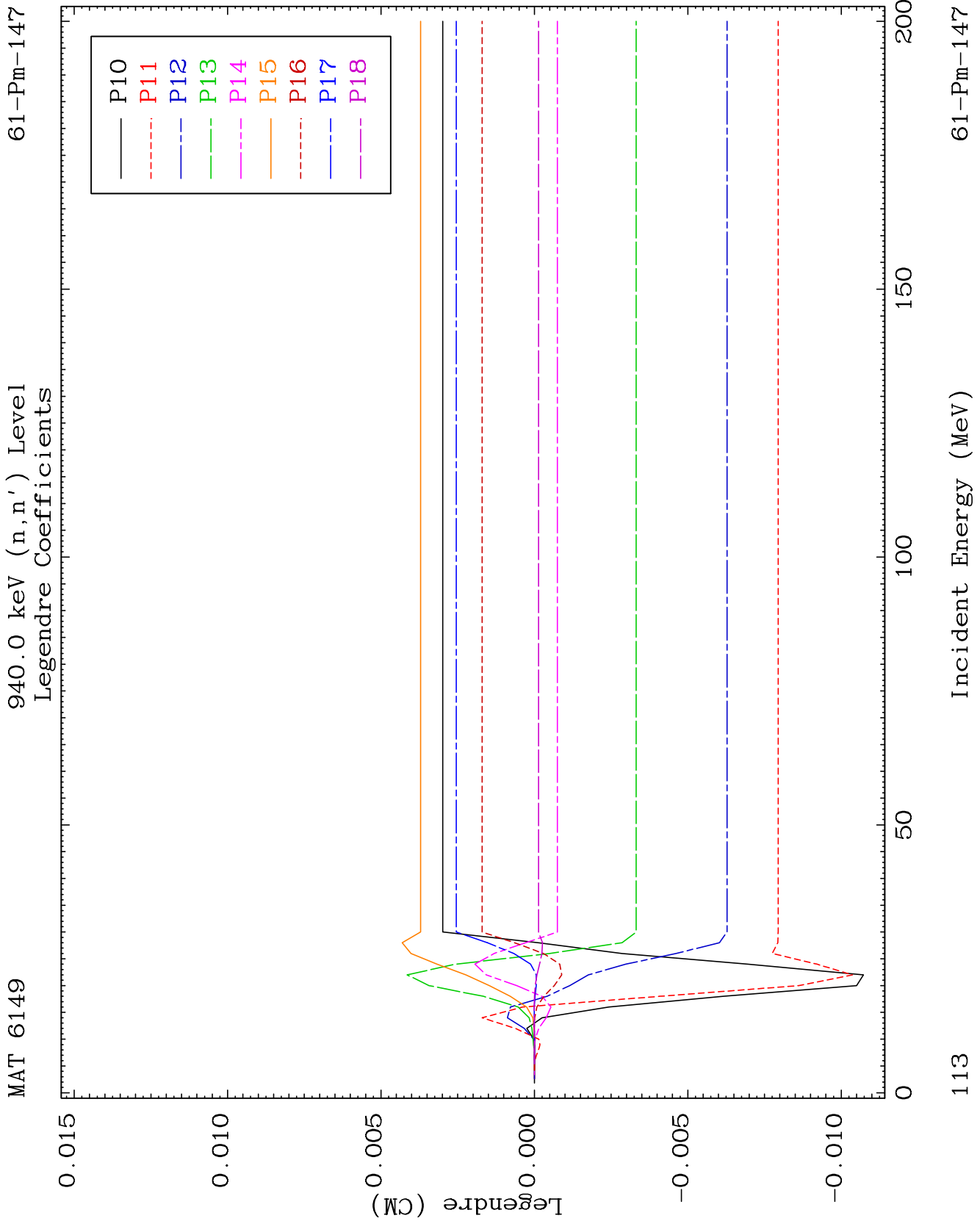
Incident Energy (MeV)

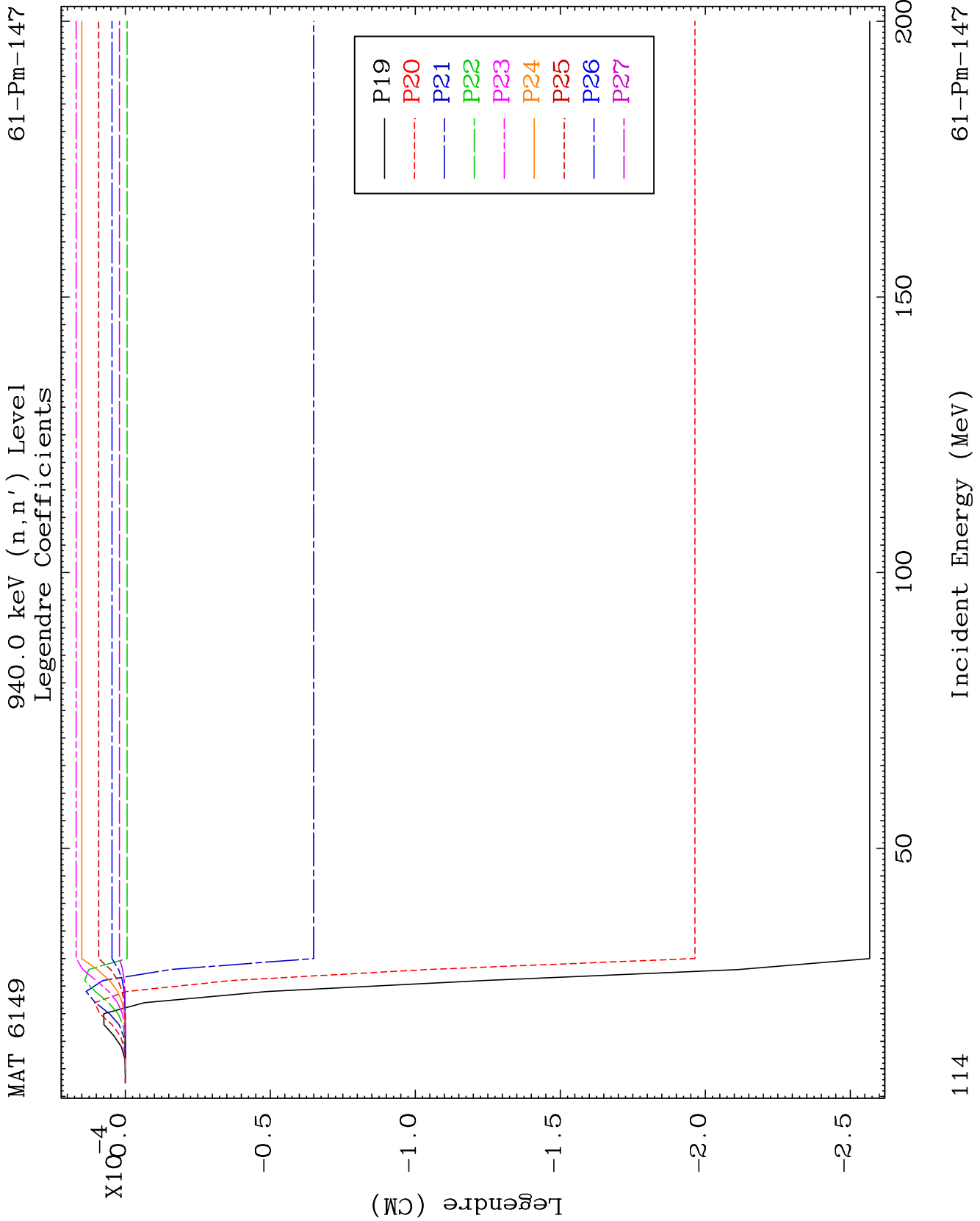
61-Pm-147













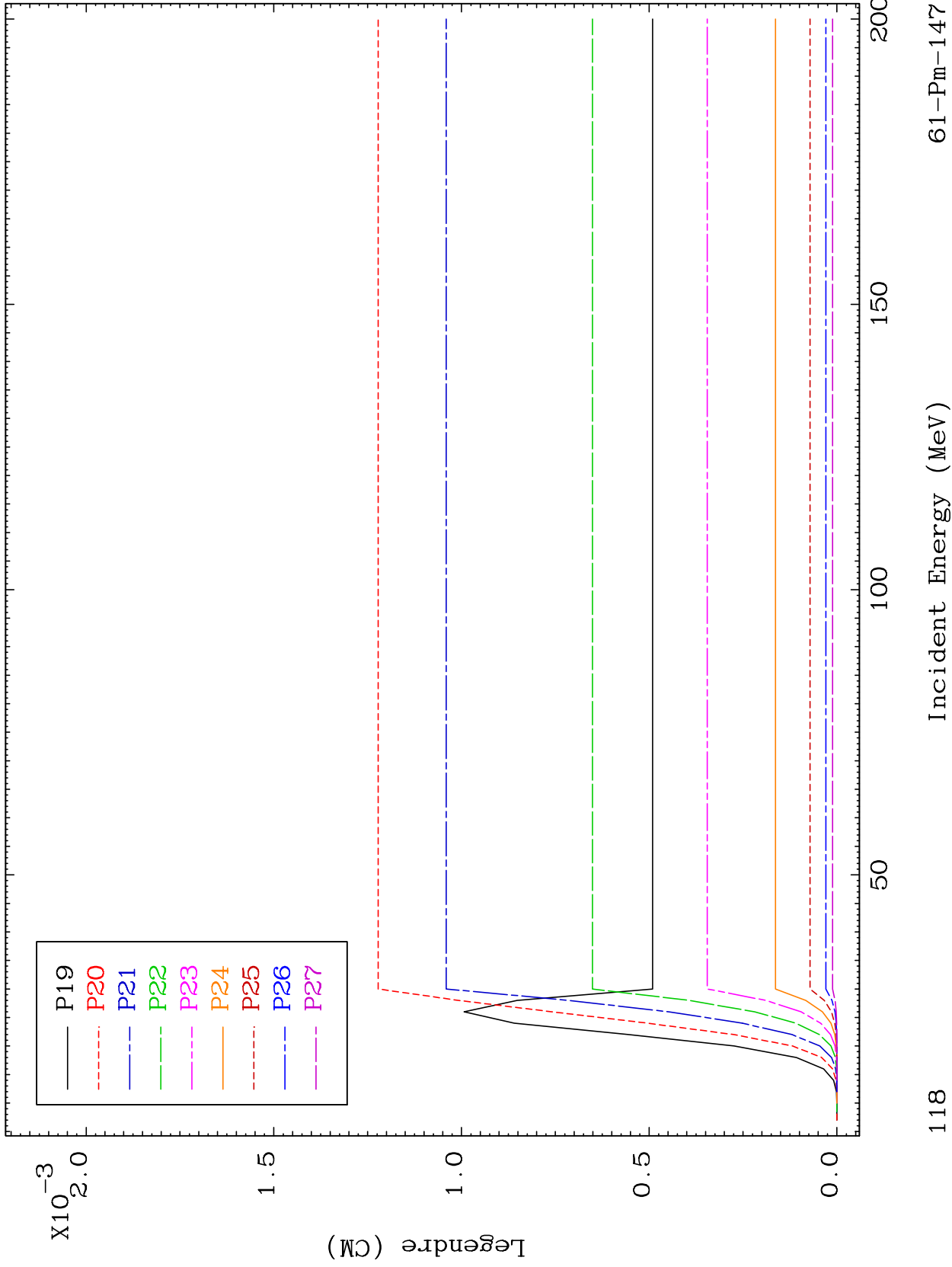


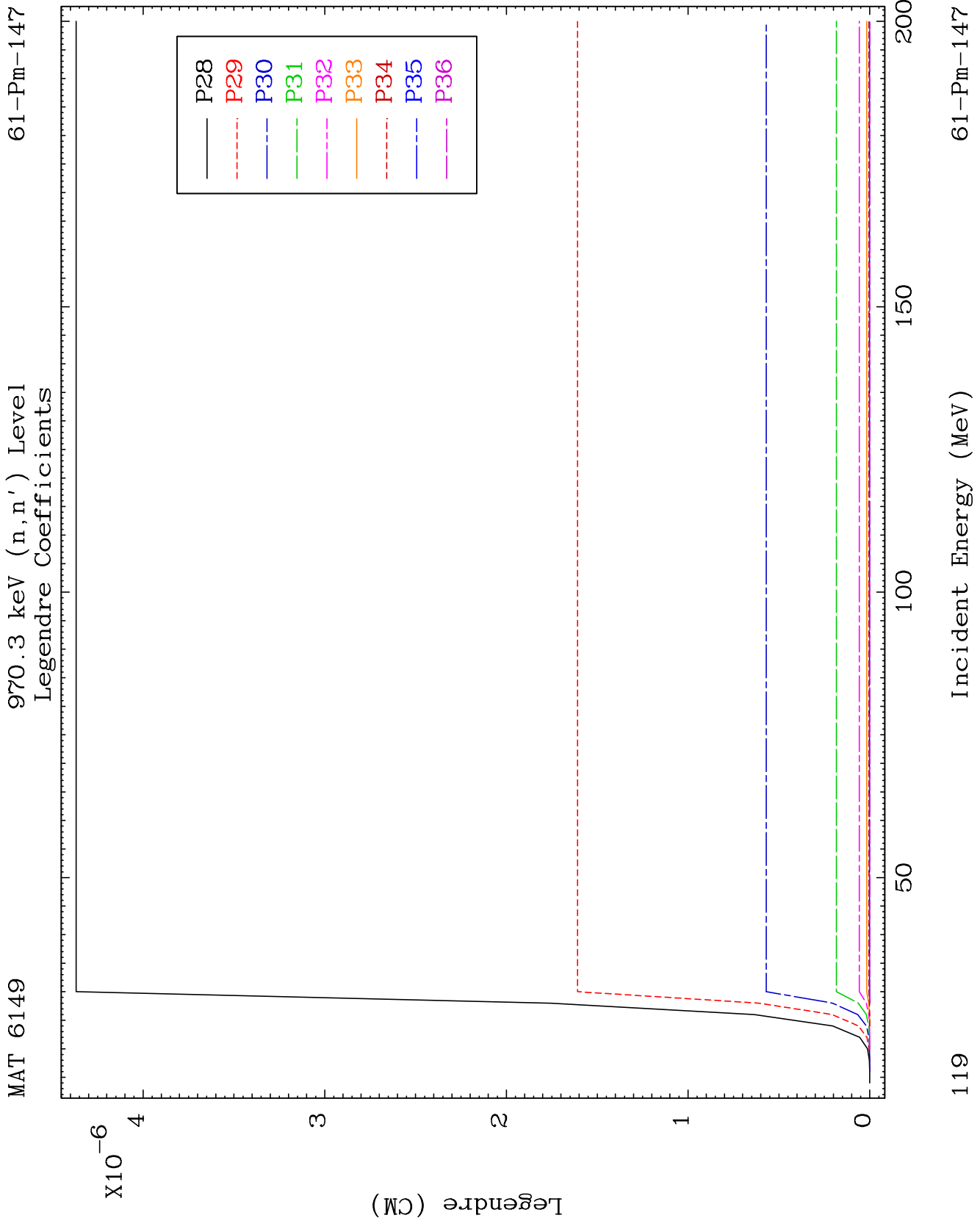


MAT 6149

970.3 keV (n,n') Level  
Legendre Coefficients

61-Pm-147





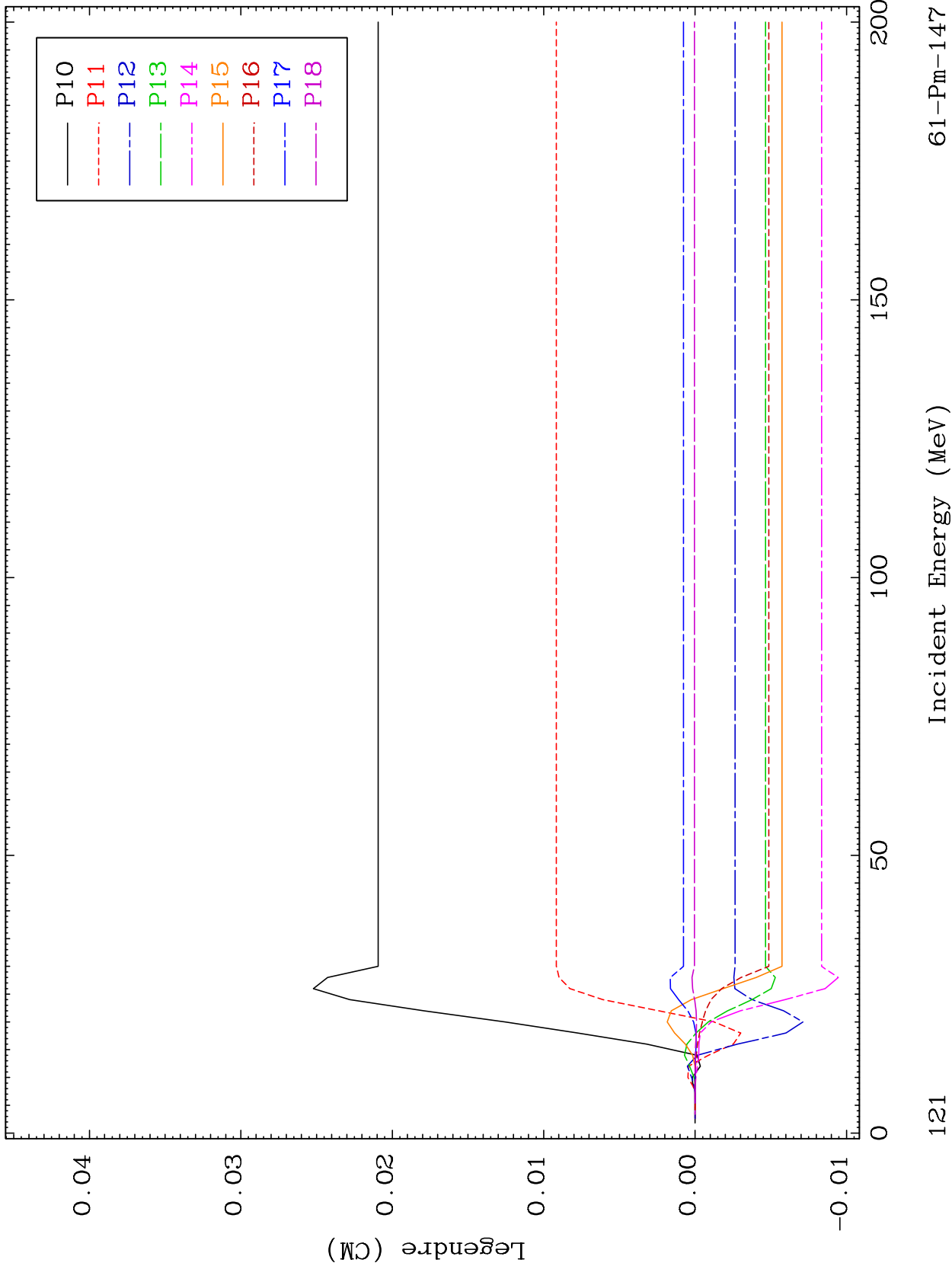




MAT 6149

973.0 keV (n,n') Level  
Legendre Coefficients

61-Pm-147



61-Pm-147

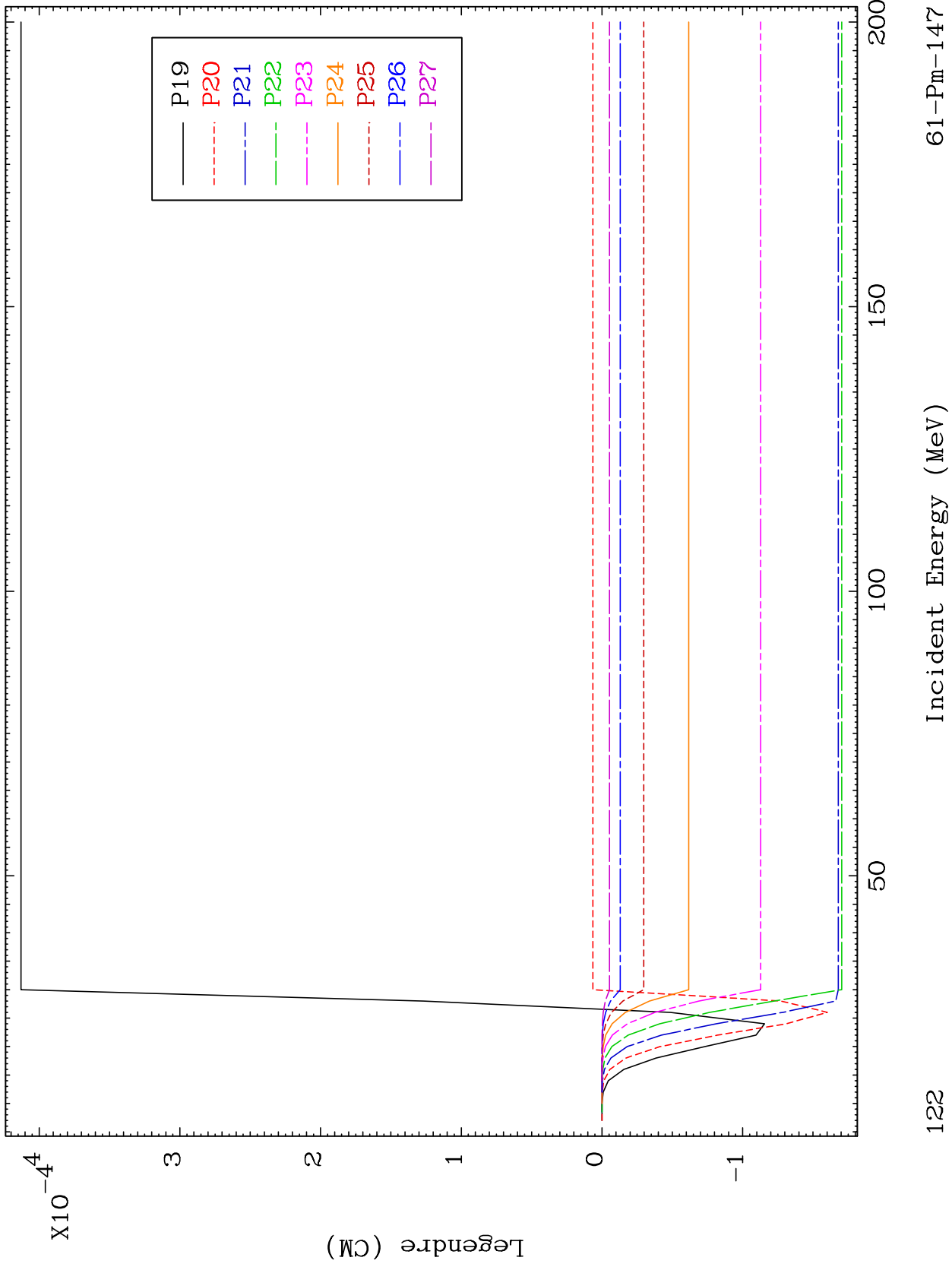
Incident Energy (MeV)

121

MAT 6149

973.0 keV (n,n') Level  
Legendre Coefficients

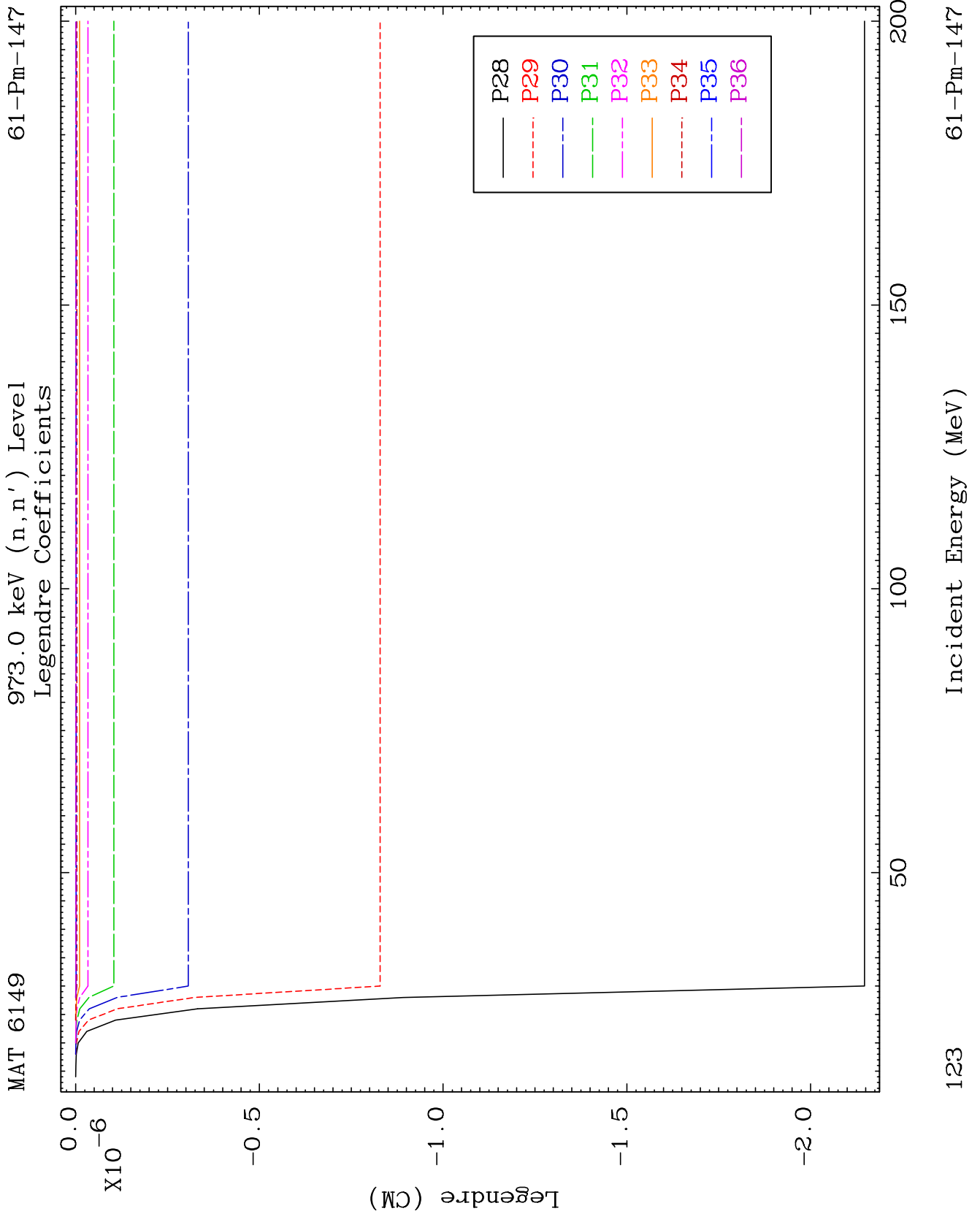
61-Pm-147

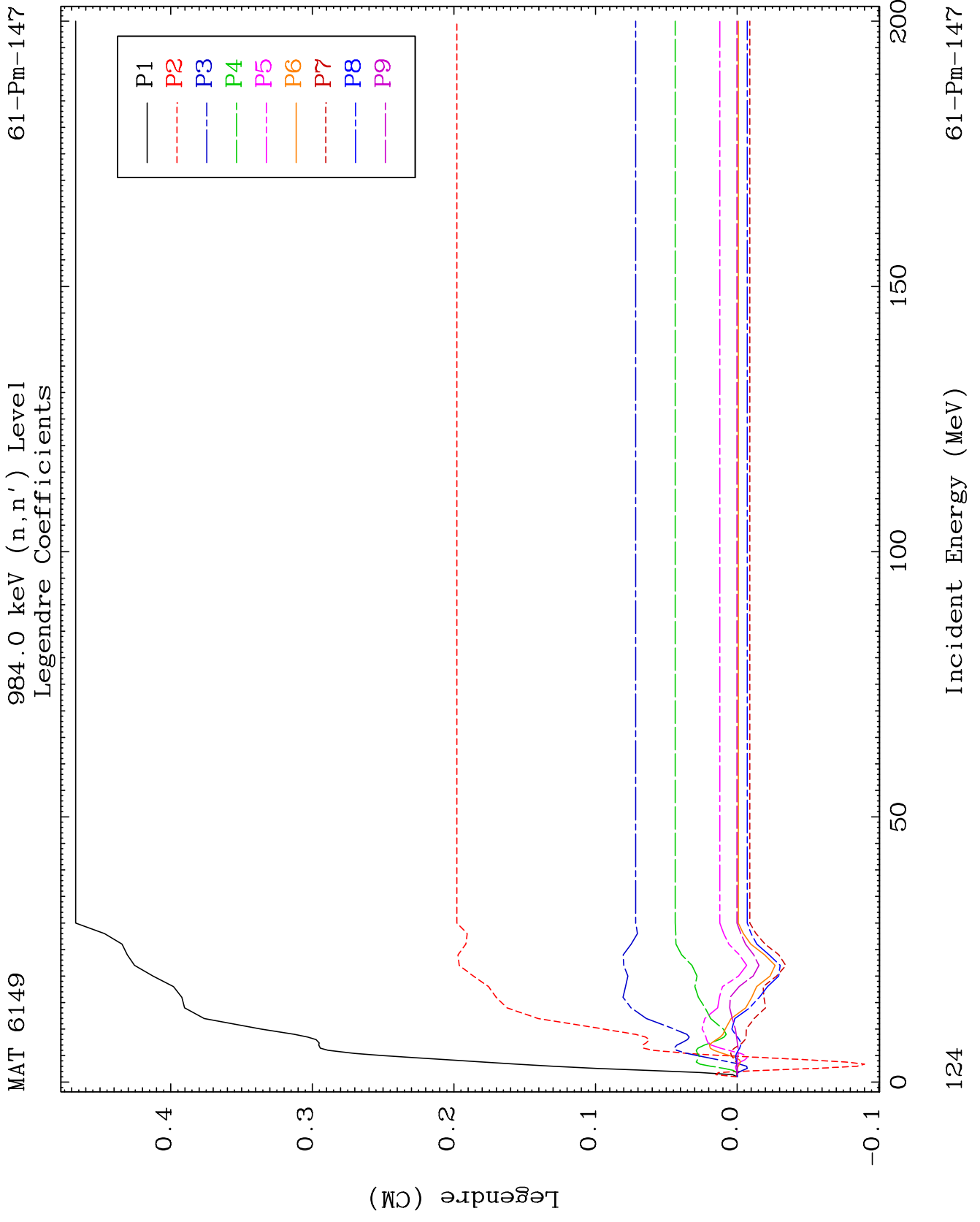


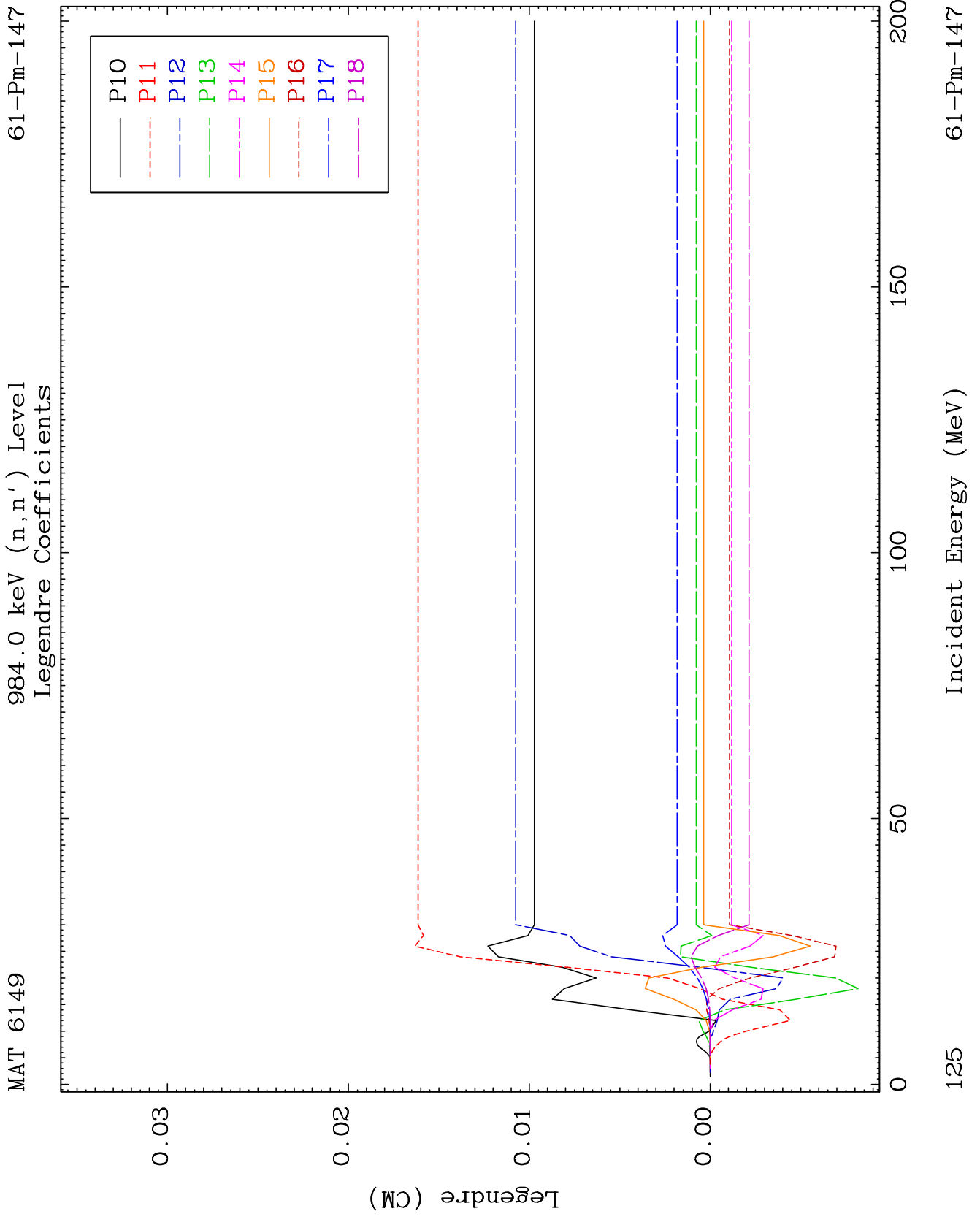
122

Incident Energy (MeV)

61-Pm-147



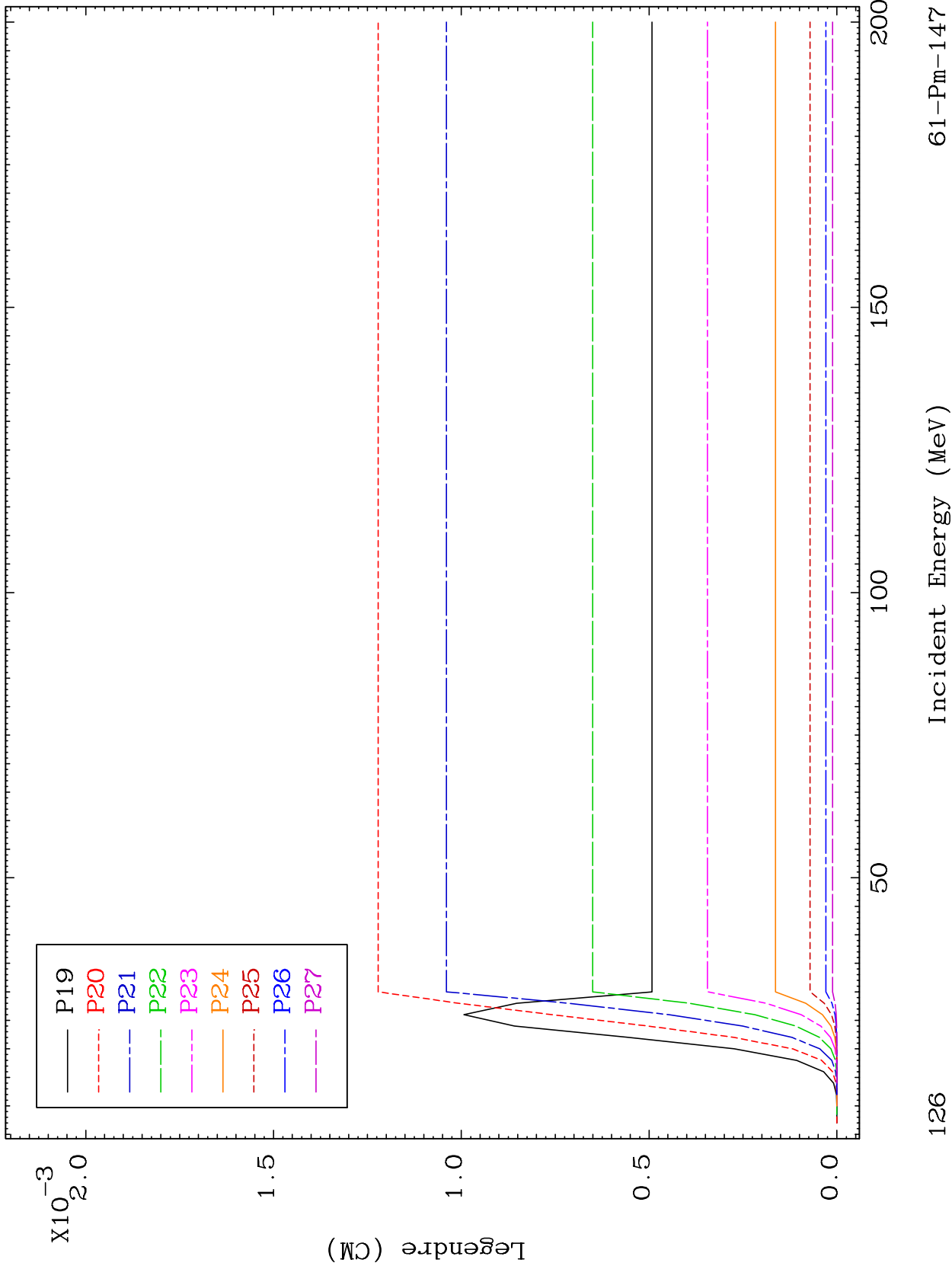


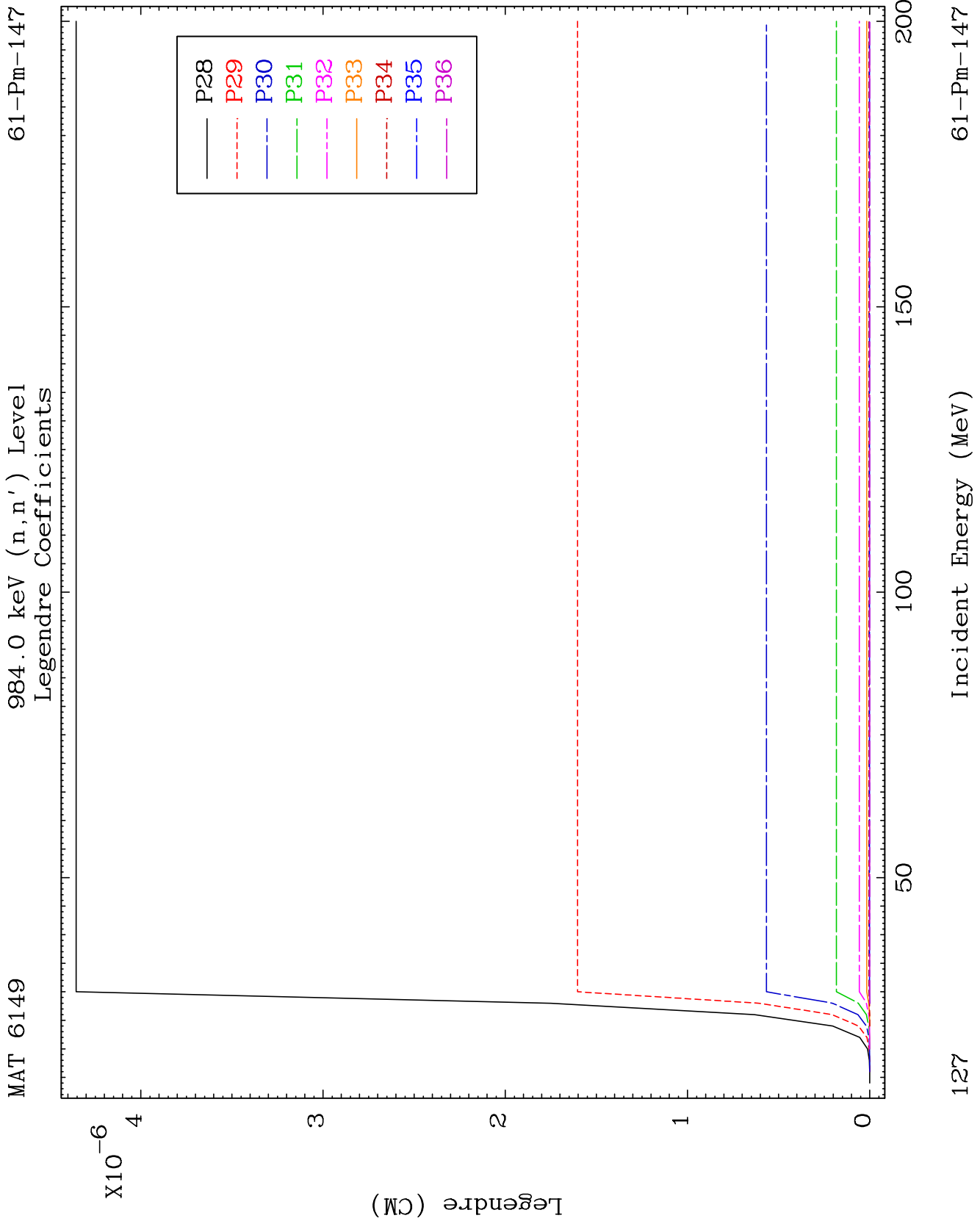


MAT 6149

984.0 keV (n,n') Level  
Legendre Coefficients

61-Pm-147





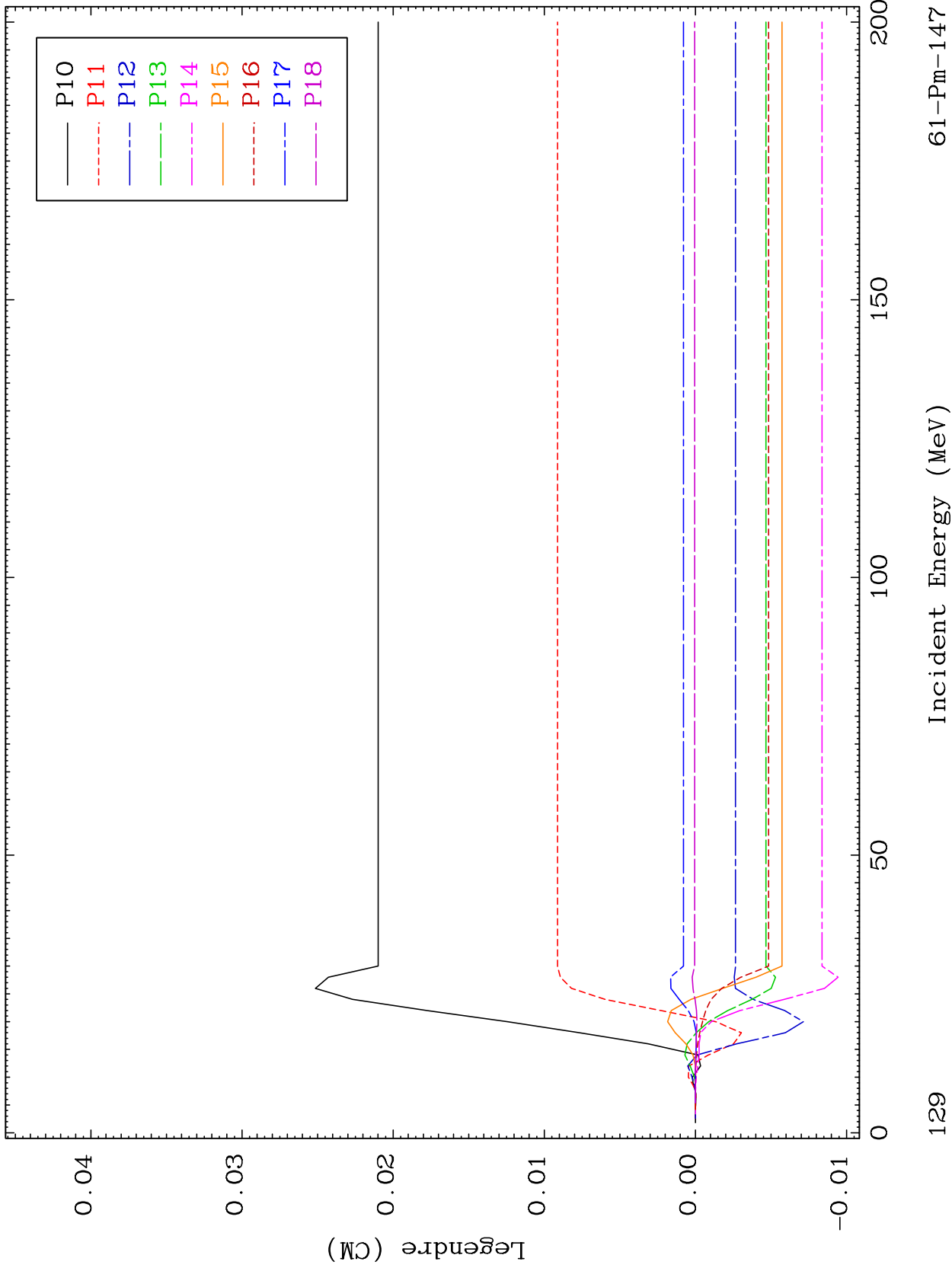




MAT 6149

1.041 MeV (n,n') Level  
Legendre Coefficients

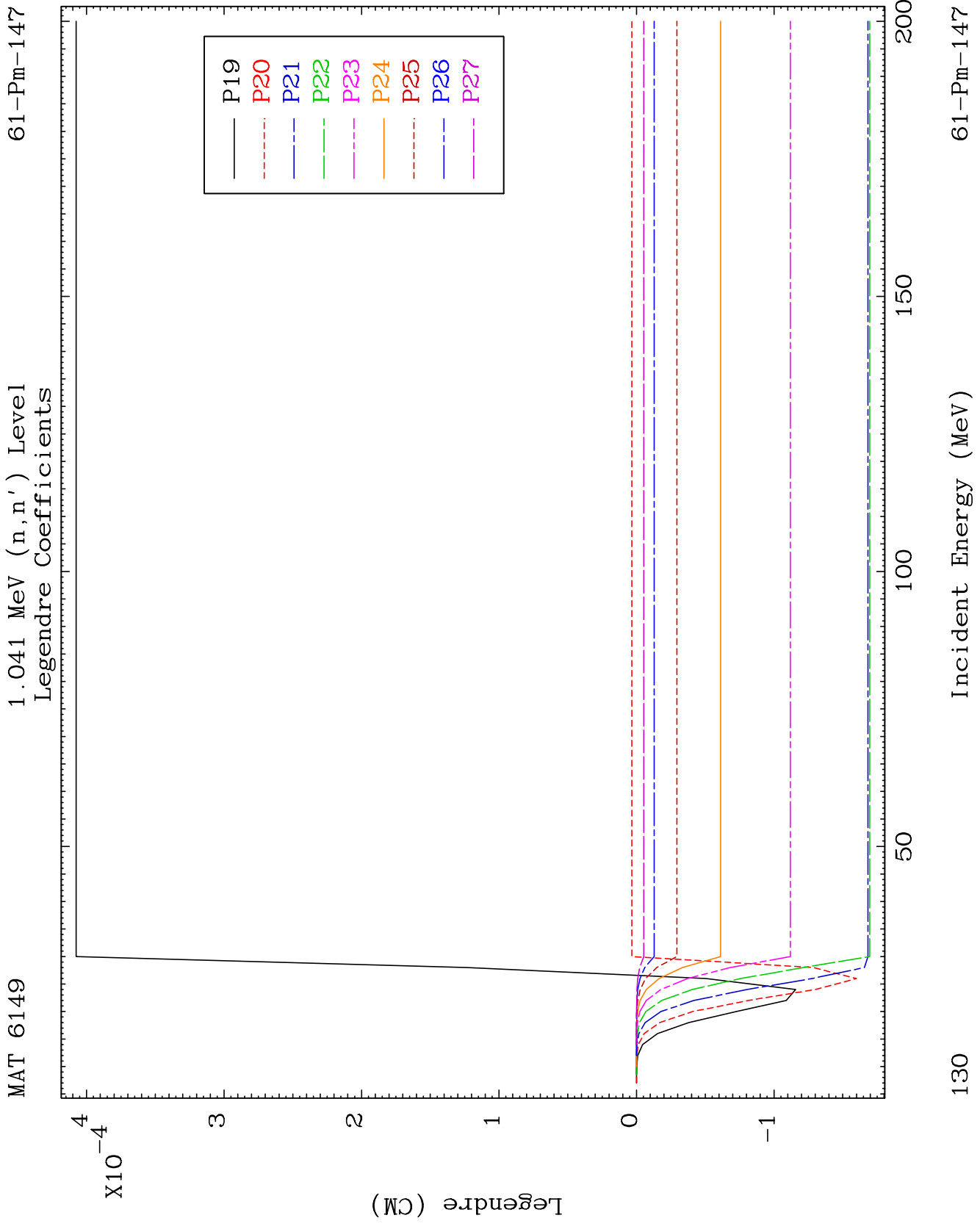
61-Pm-147

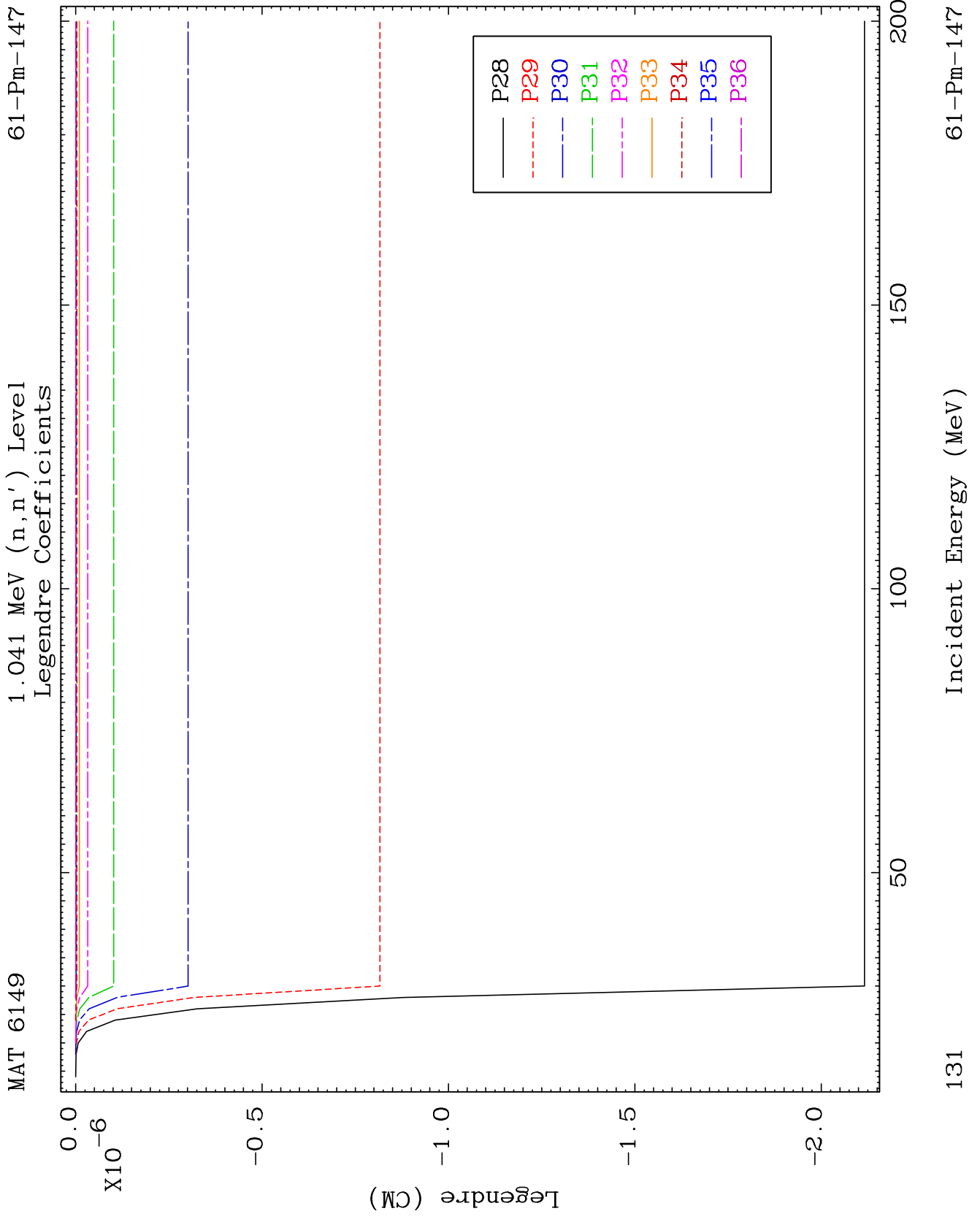


129

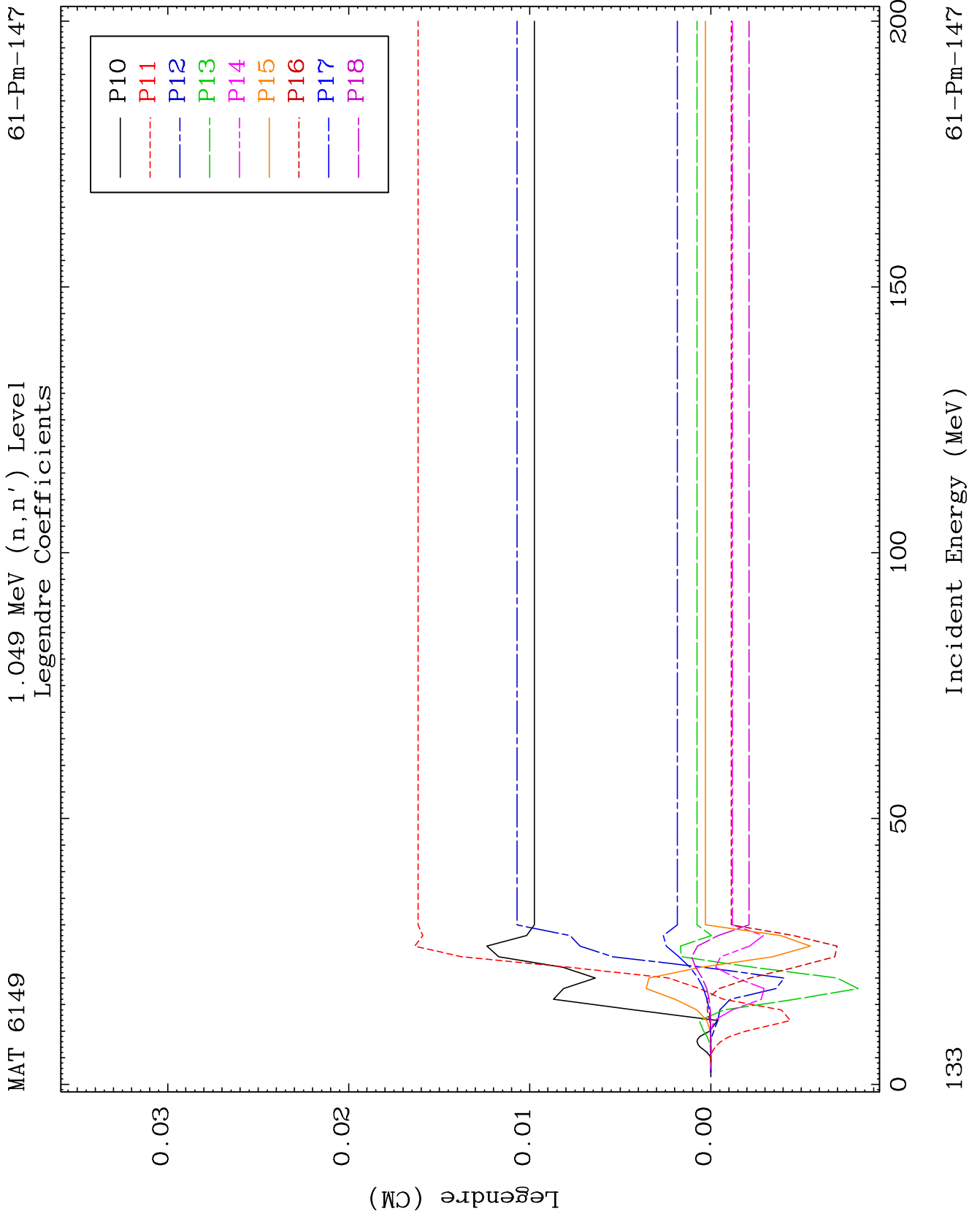
Incident Energy (MeV)

61-Pm-147





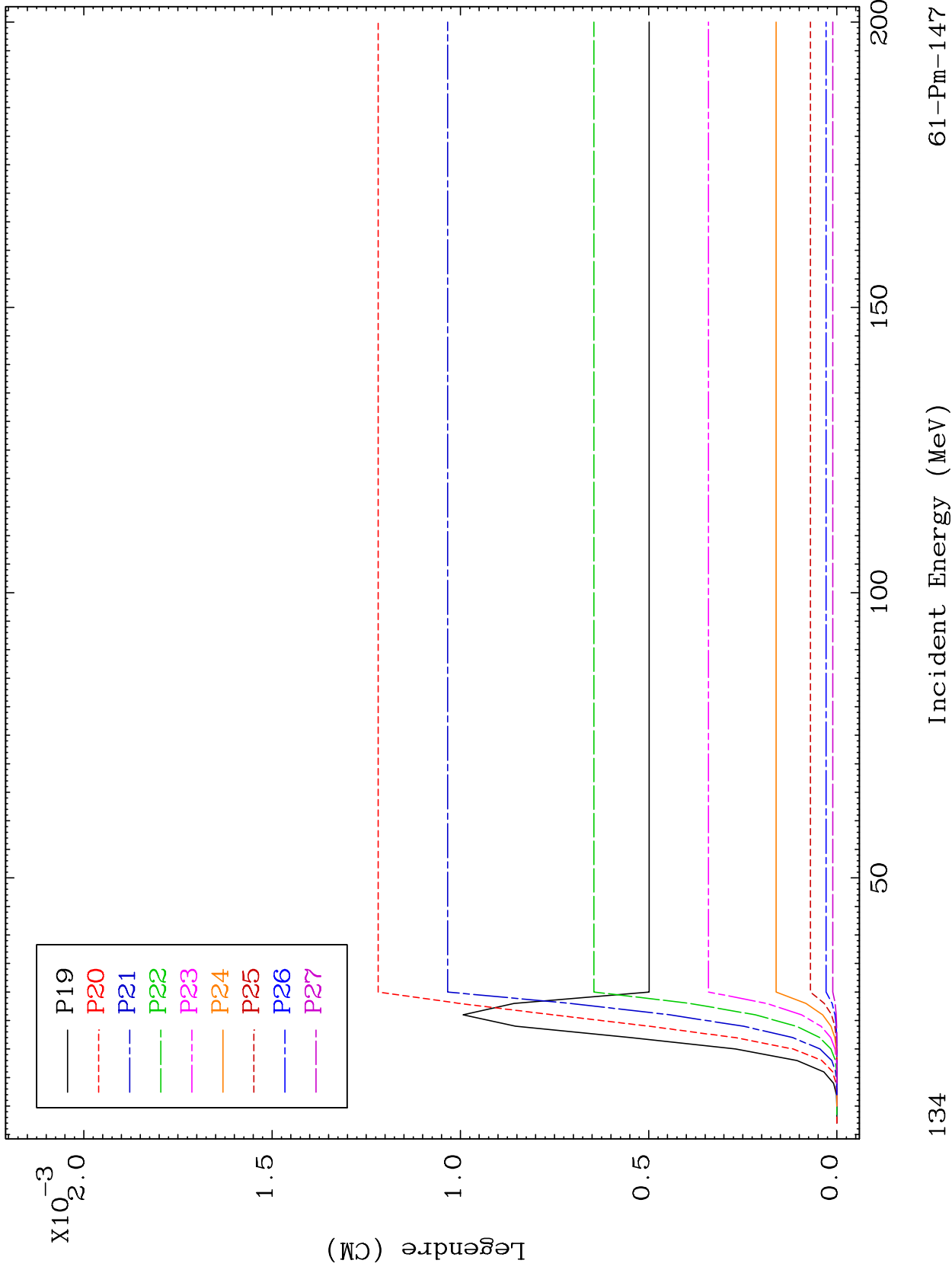




MAT 6149

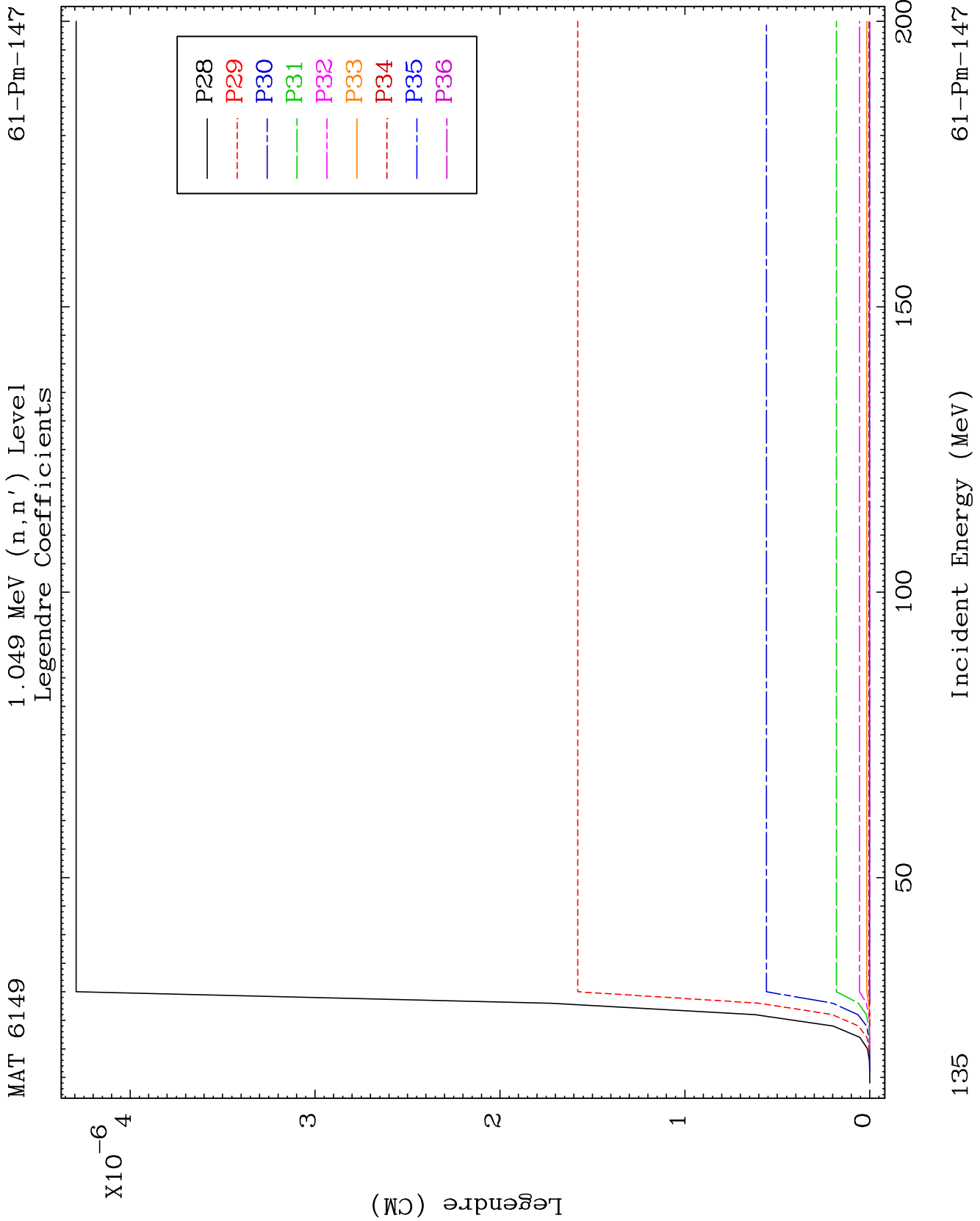
1.049 MeV (n,n') Level  
Legendre Coefficients

61-Pm-147



134

61-Pm-147





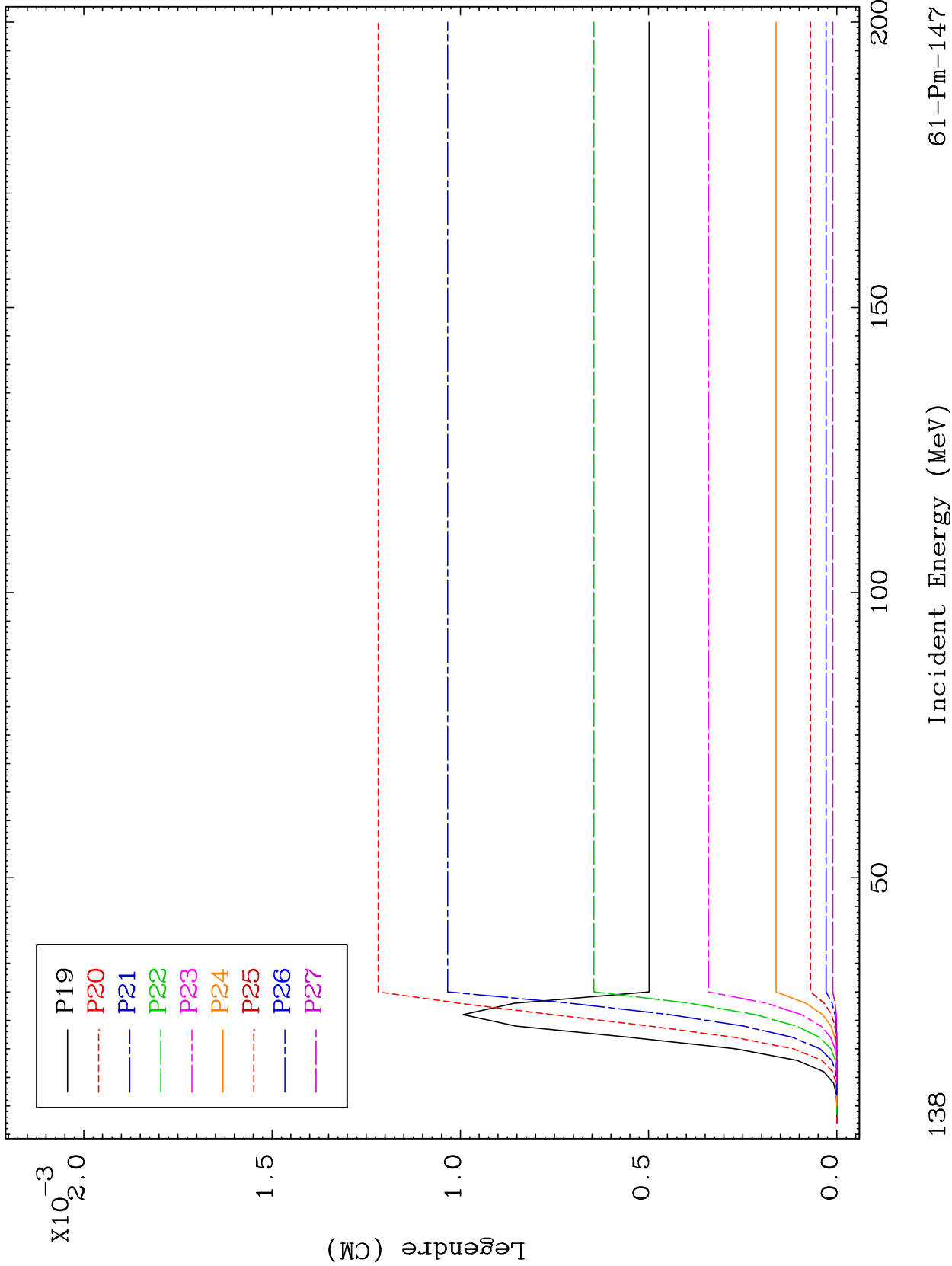




MAT 6149

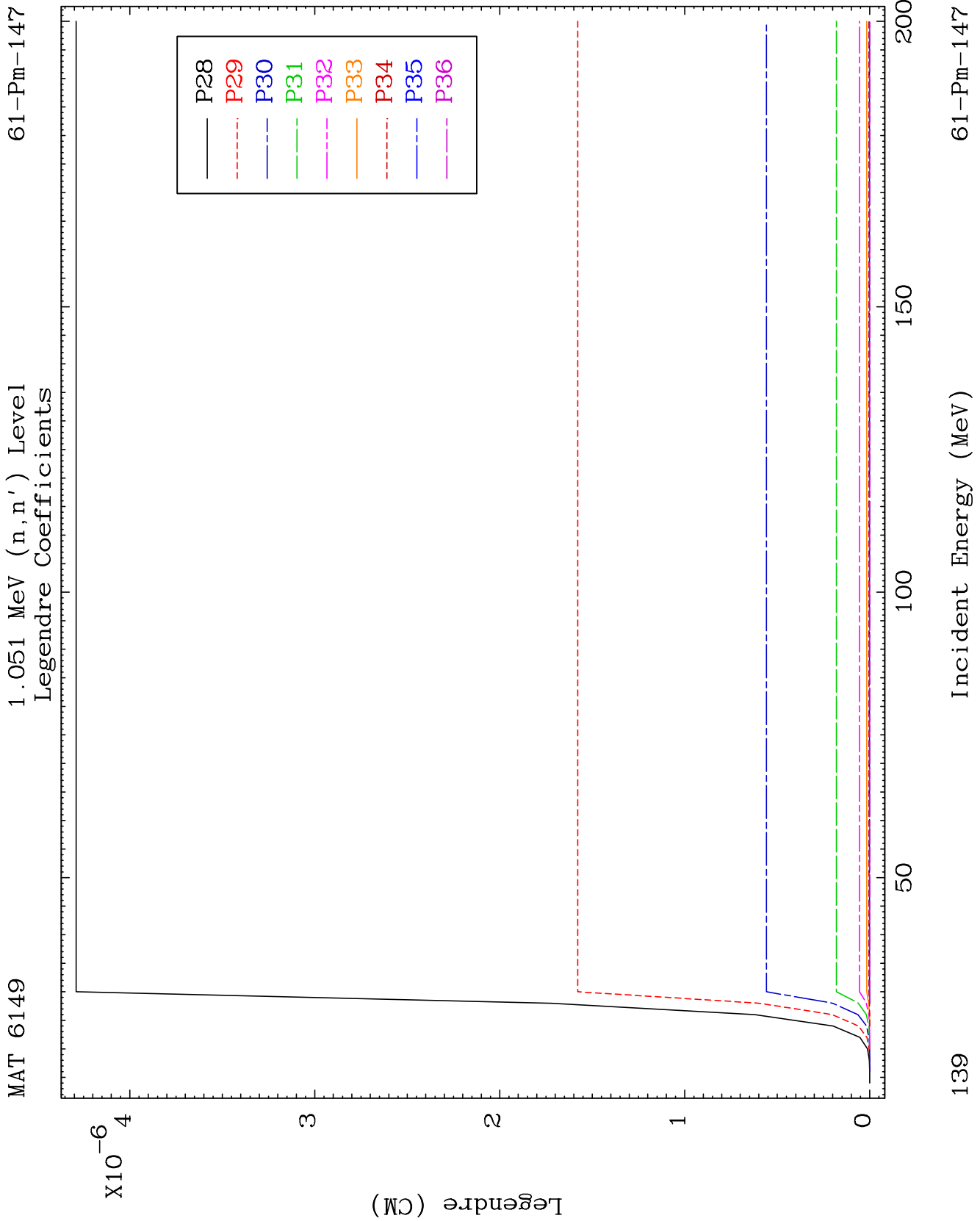
1.051 MeV (n,n') Level  
Legendre Coefficients

61-Pm-147



138

61-Pm-147

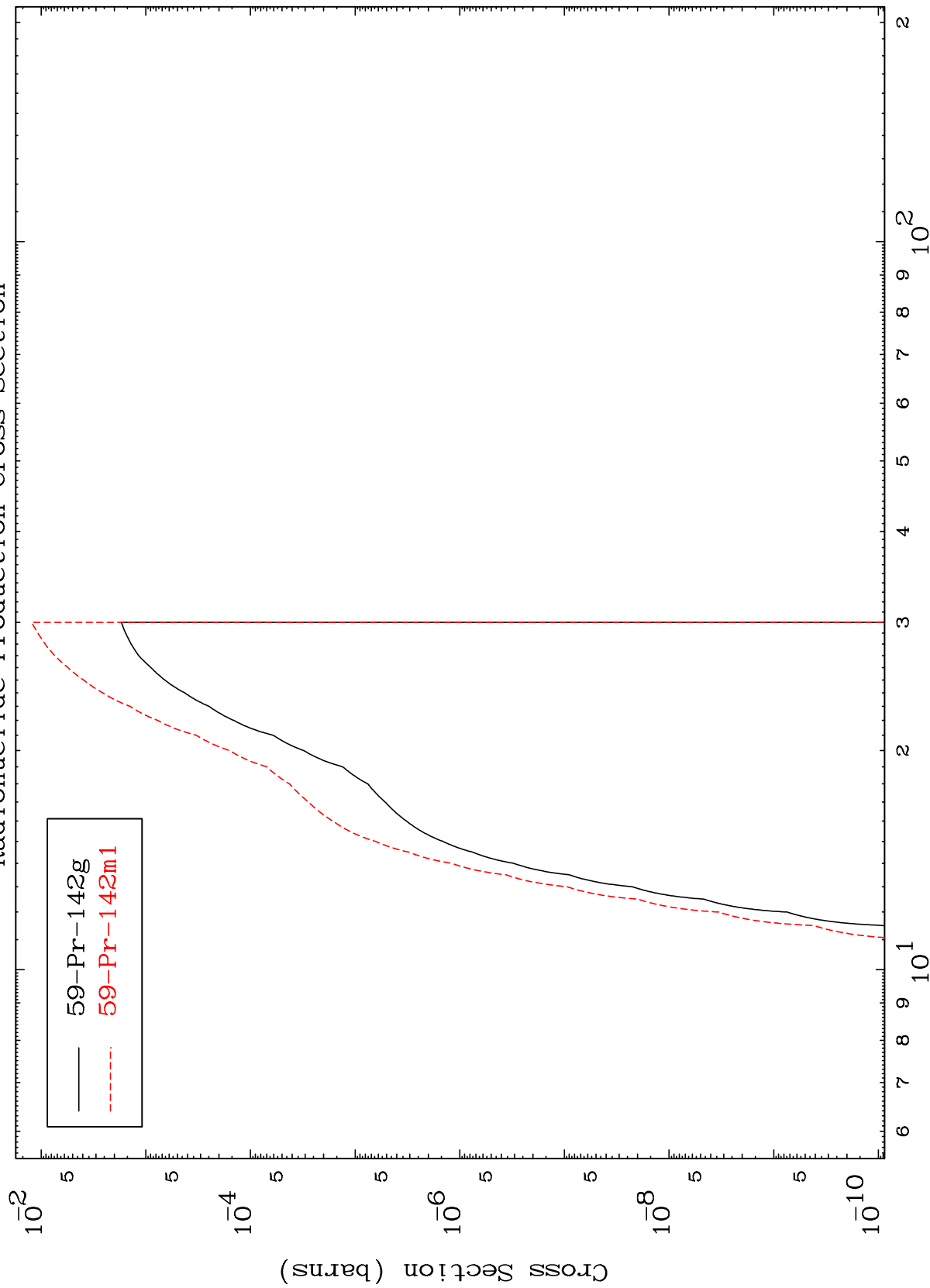


MAT 6149

$(n,2n) \alpha$

61-Pm-147

Radionuclide Production Cross Section



59-Pr-142g  
59-Pr-142m1

140

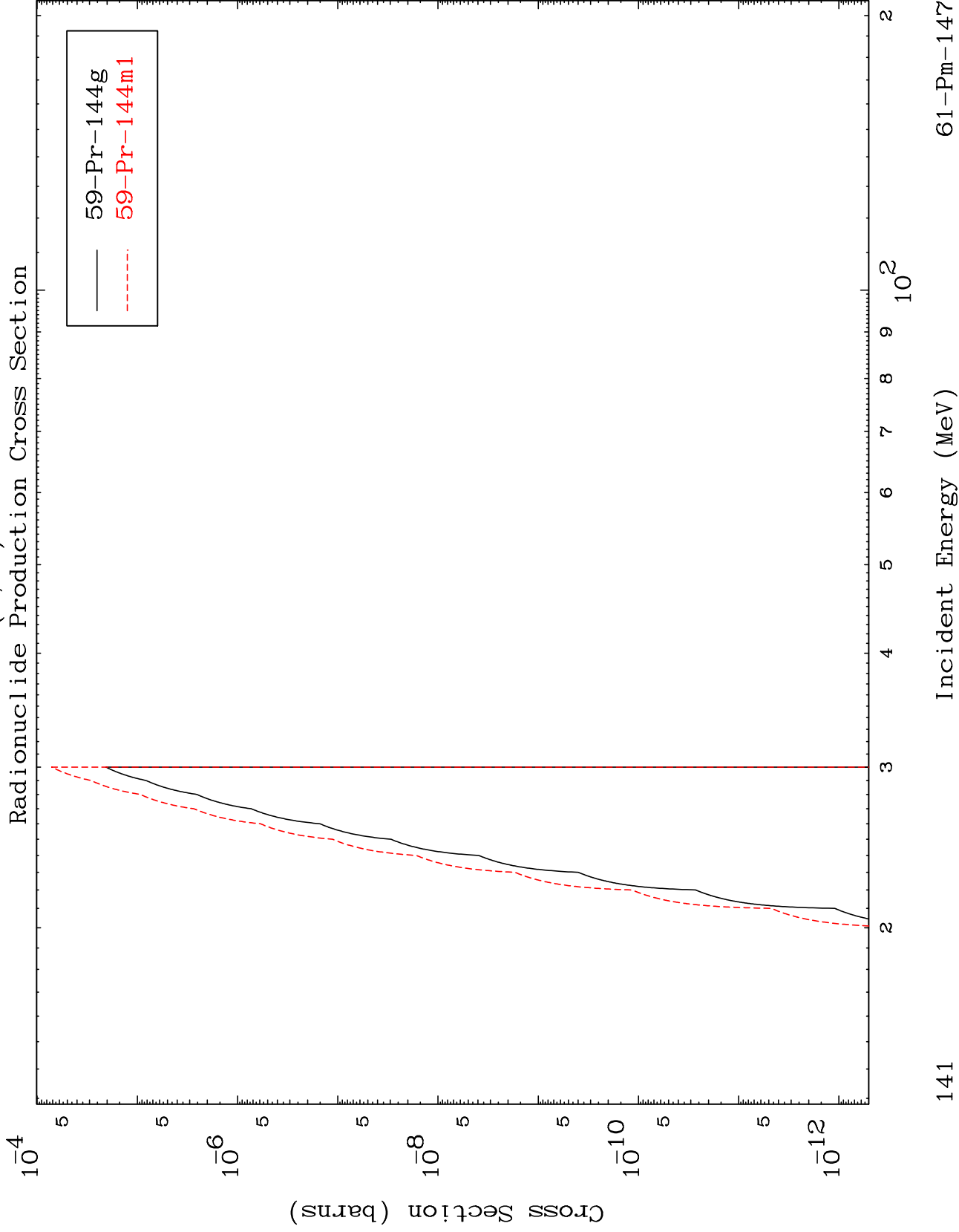
Incident Energy (MeV)

61-Pm-147

MAT 6149

(n,n') He-3

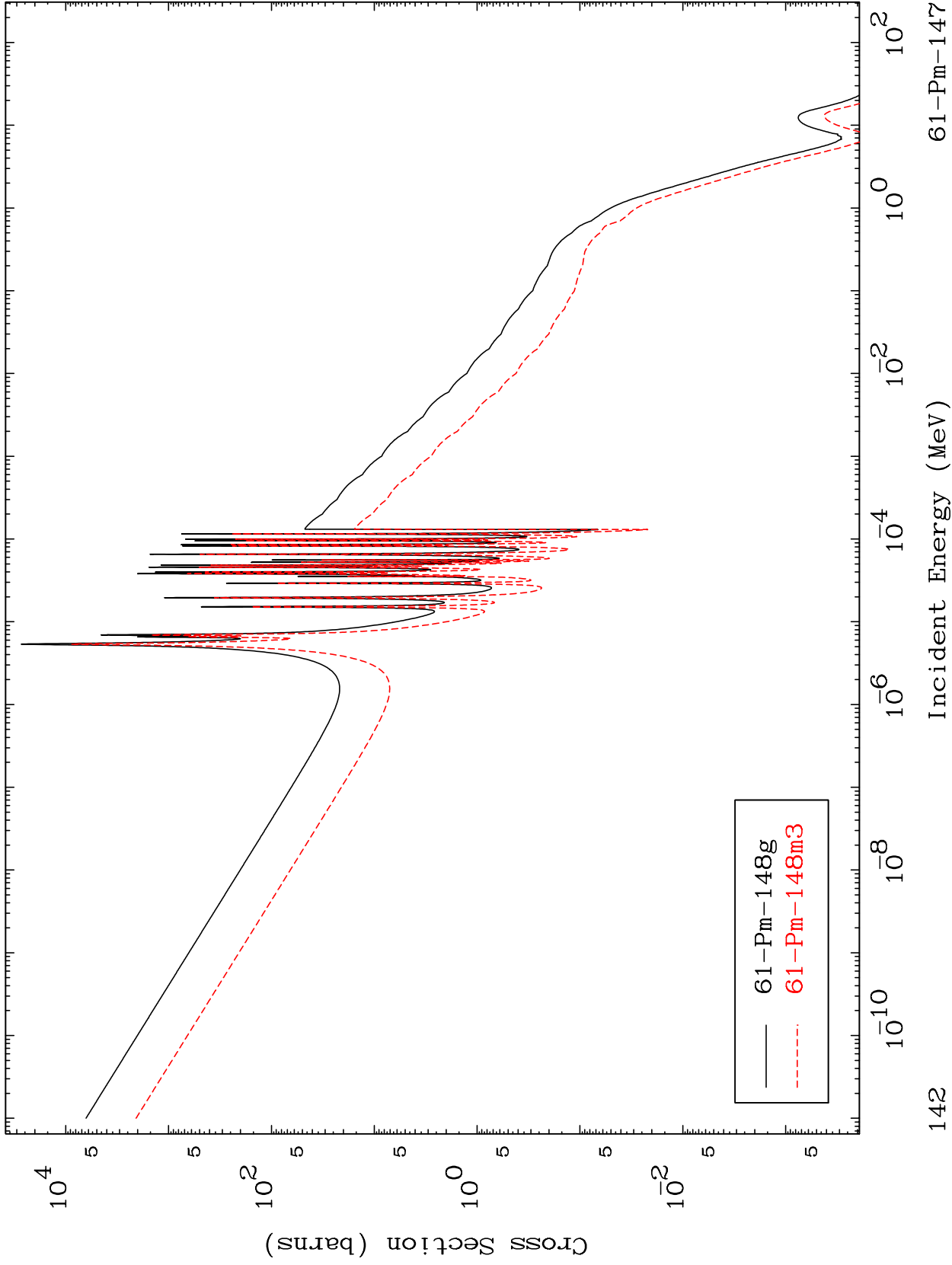
61-Pm-147



141

61-Pm-147

(n,γ)  
Radionuclide Production Cross Section

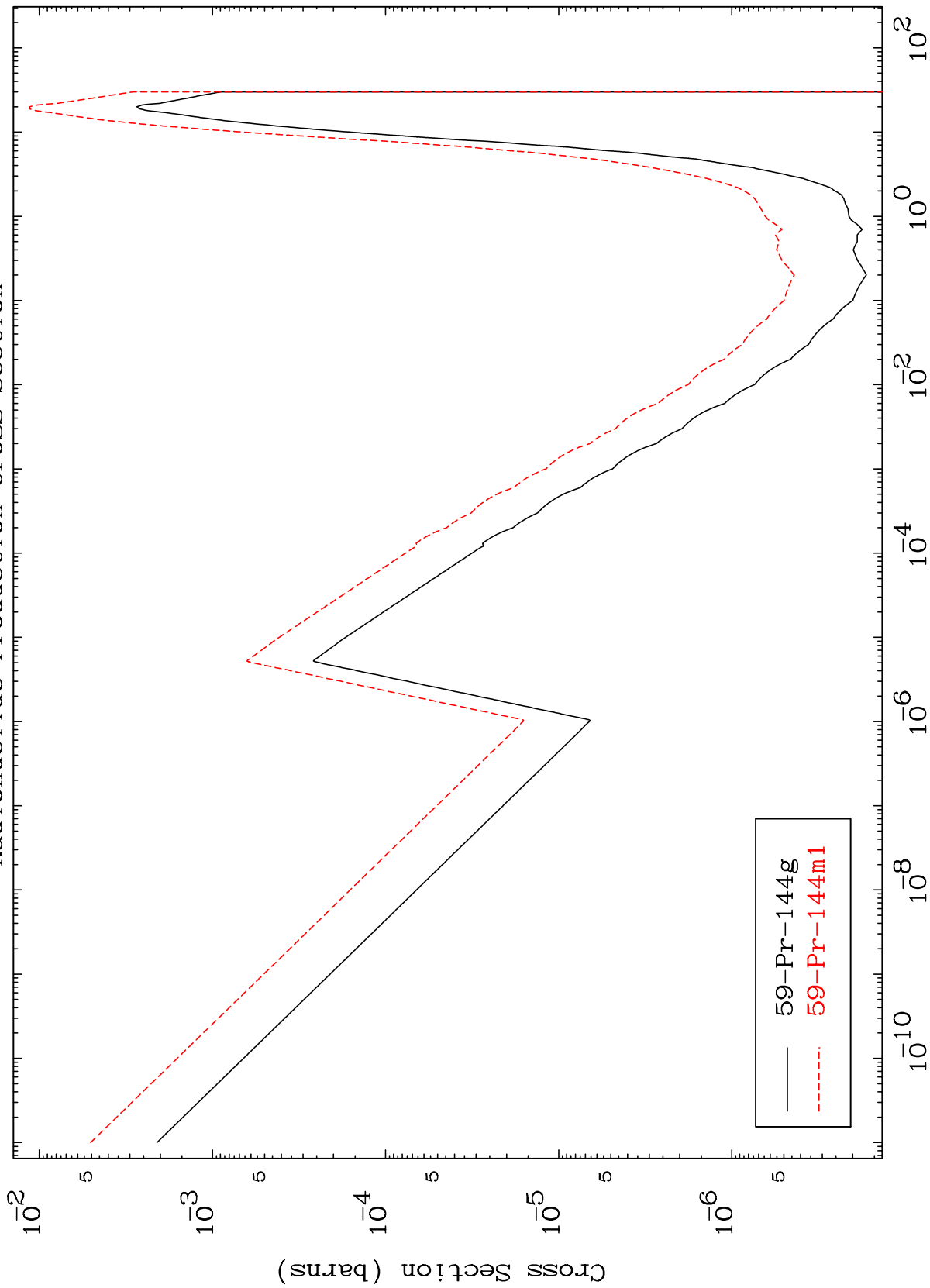


MAT 6149

(n,  $\alpha$ )

61-Pm-147

Radionuclide Production Cross Section



143

Incident Energy (MeV)

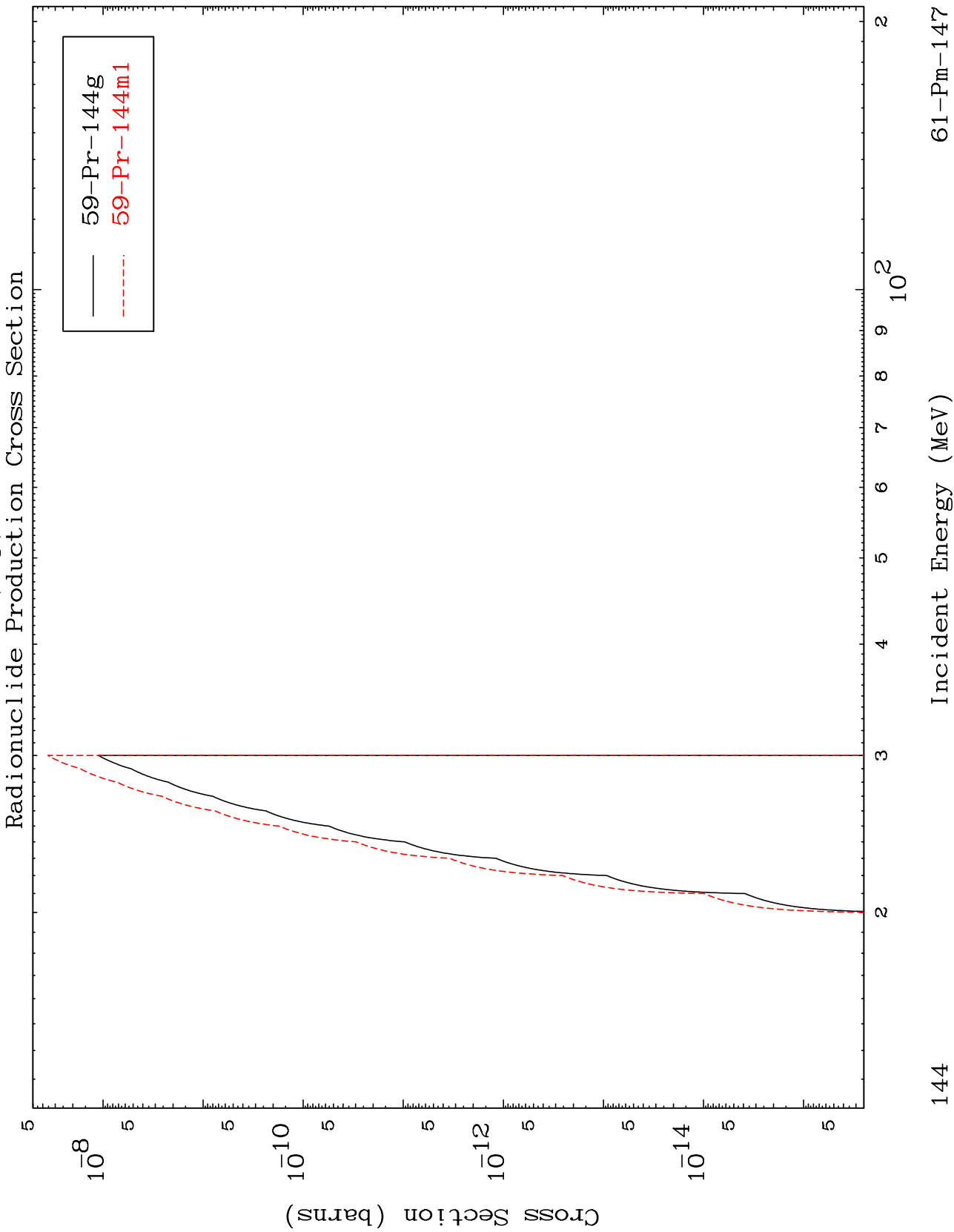
61-Pm-147



MAT 6149

(n,p) t

61-Pm-147



144

Incident Energy (MeV)

61-Pm-147