

Program EVALPLOT  
(Version 2021-1)

by

Dermott E. Cullen  
(Present Contact Information)

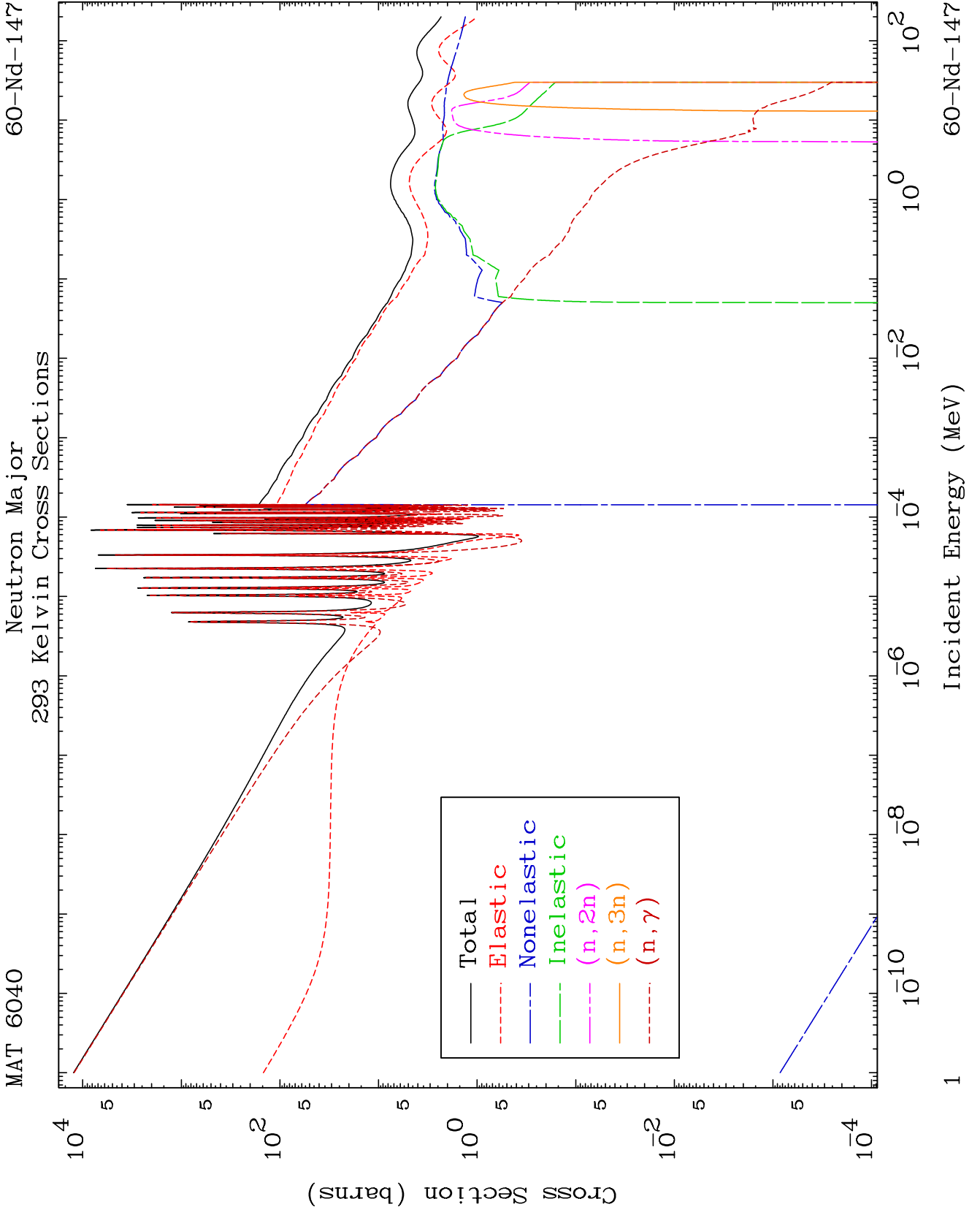
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Web:redcullen1.net/HOMEPAGE.NEW

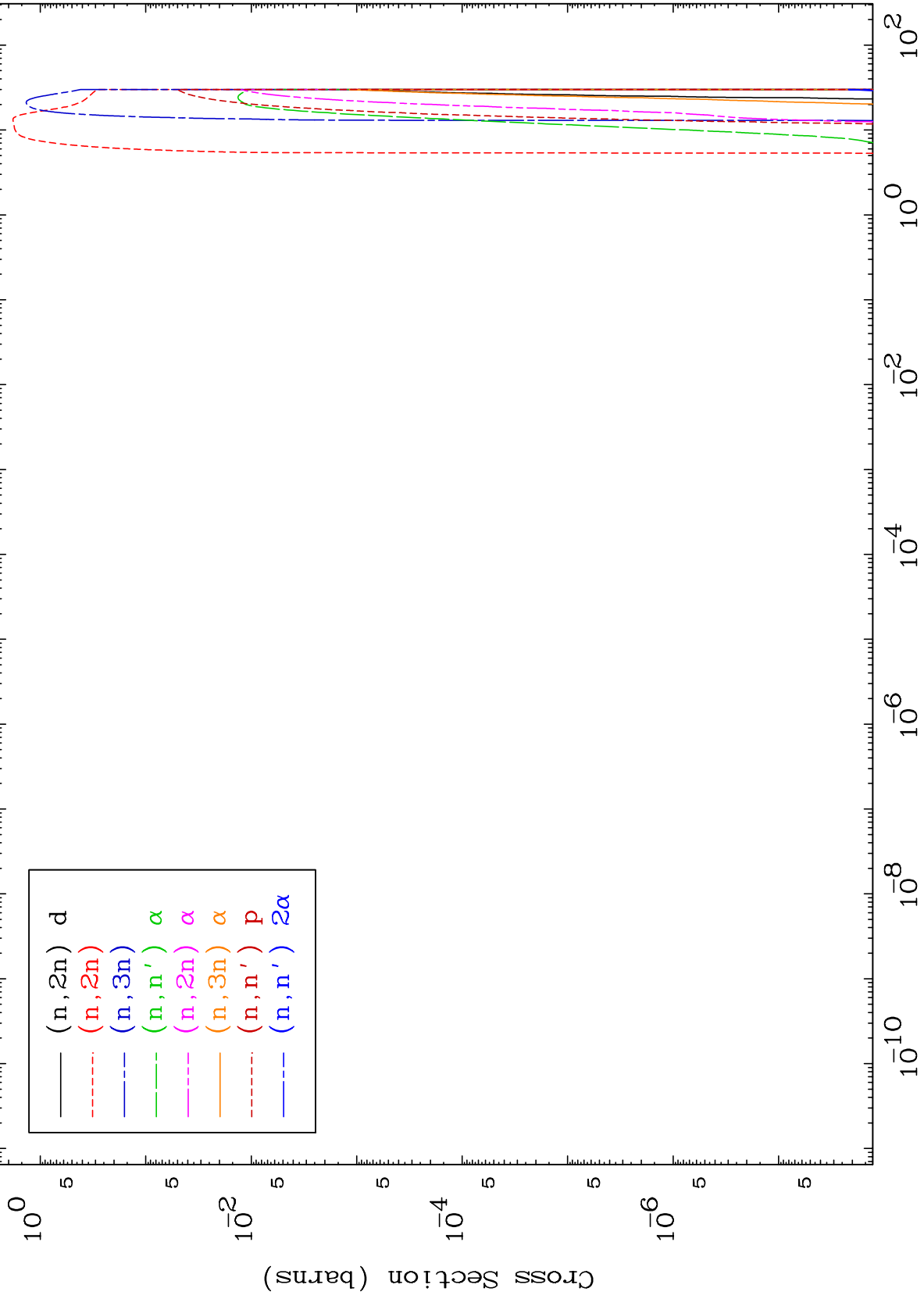
Press Mouse Button to Start



MAT 6040

Neutron Absorption  
293 Kelvin Cross Sections

60-Nd-147



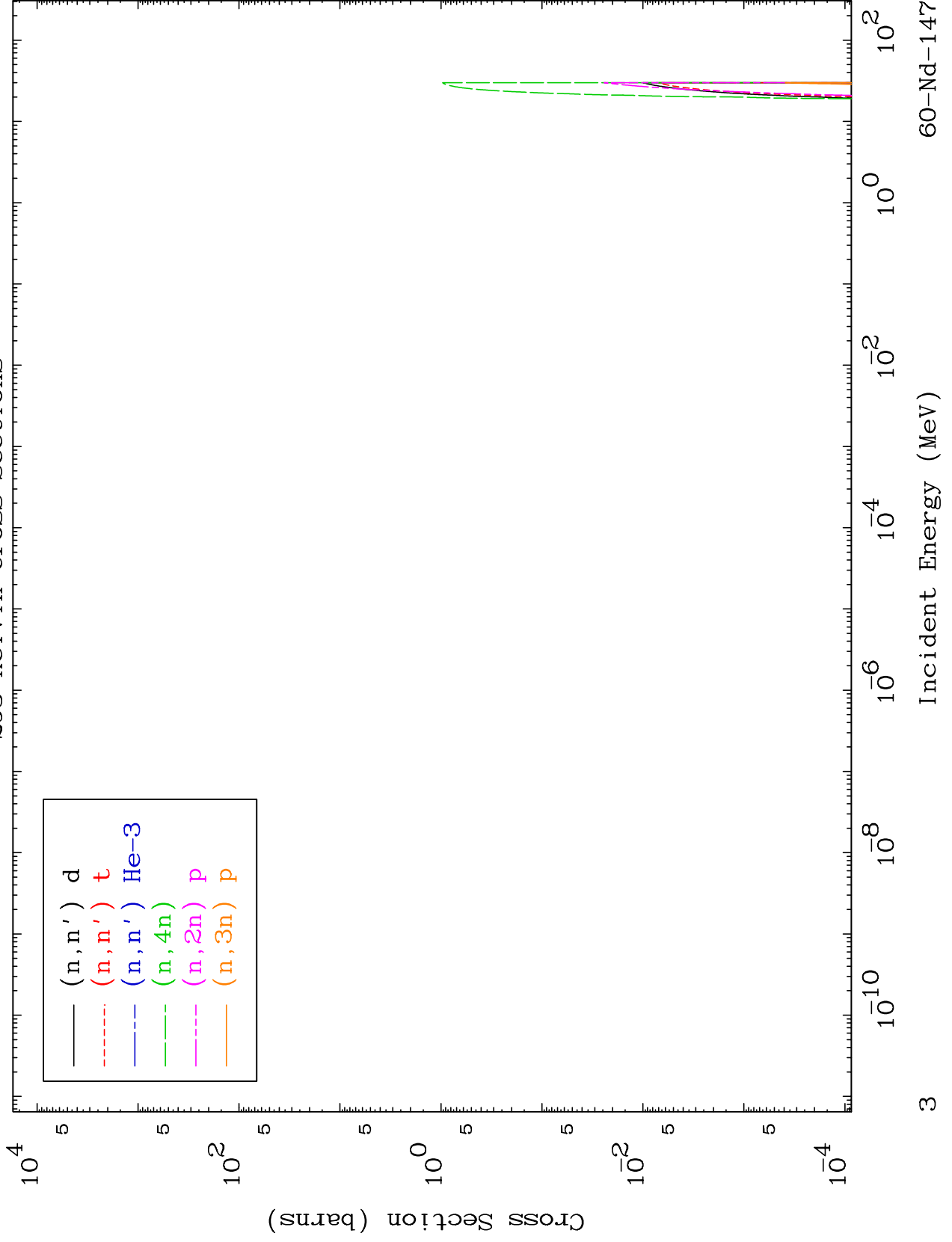
60-Nd-147

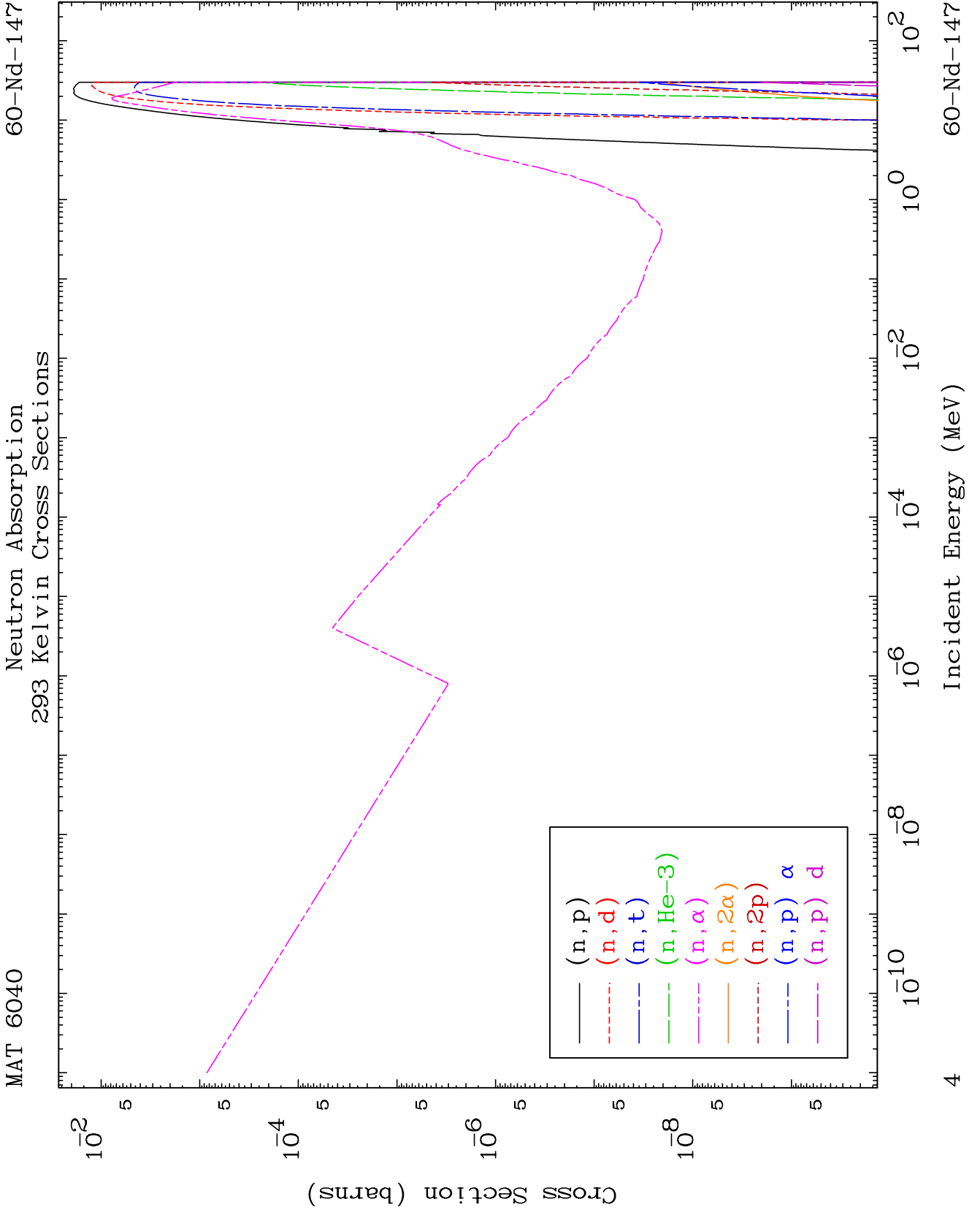
Incident Energy (MeV)

MAT 6040

Neutron Absorption  
293 Kelvin Cross Sections

60-Nd-147

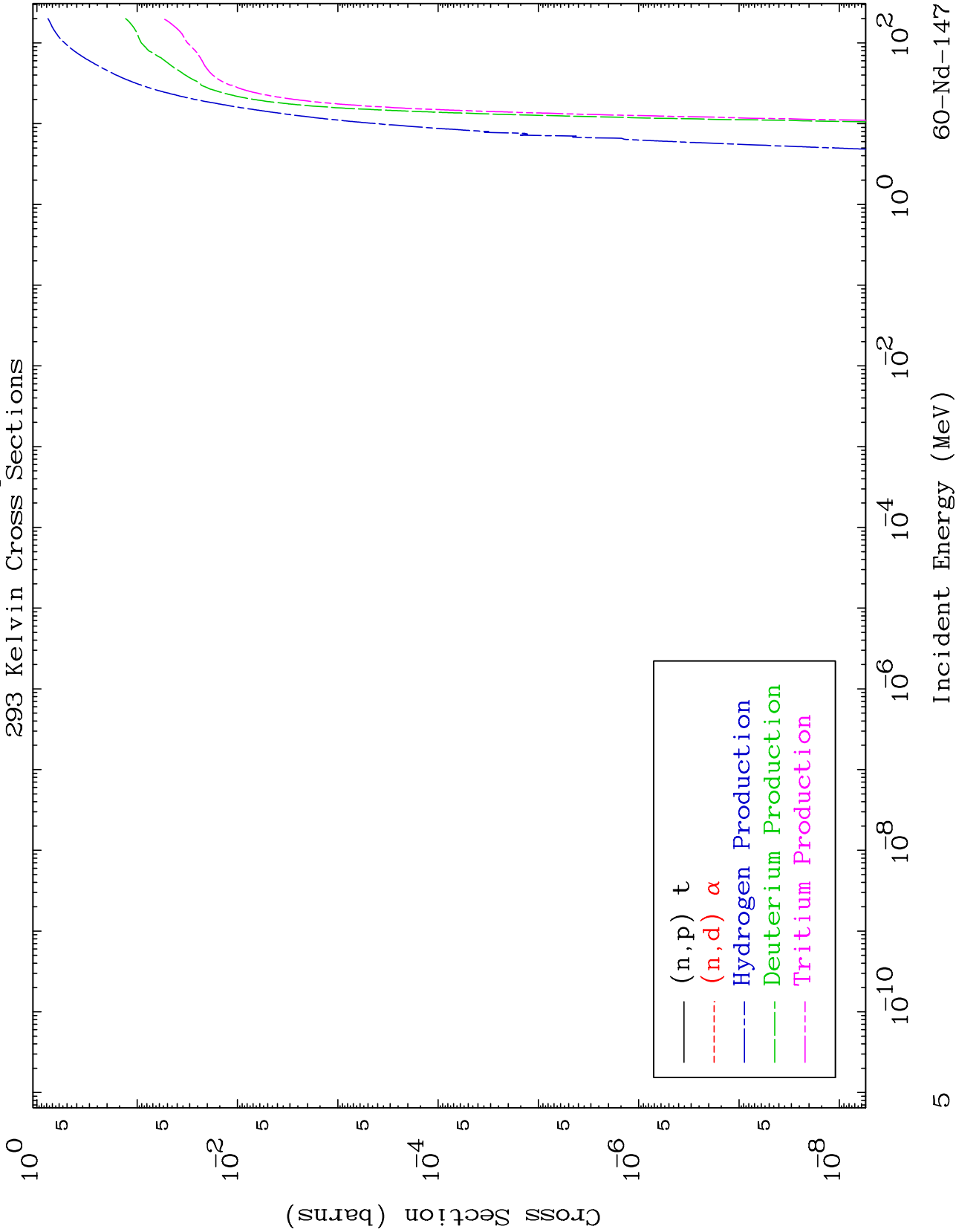




MAT 6040

Neutron Absorption  
293 Kelvin Cross Sections

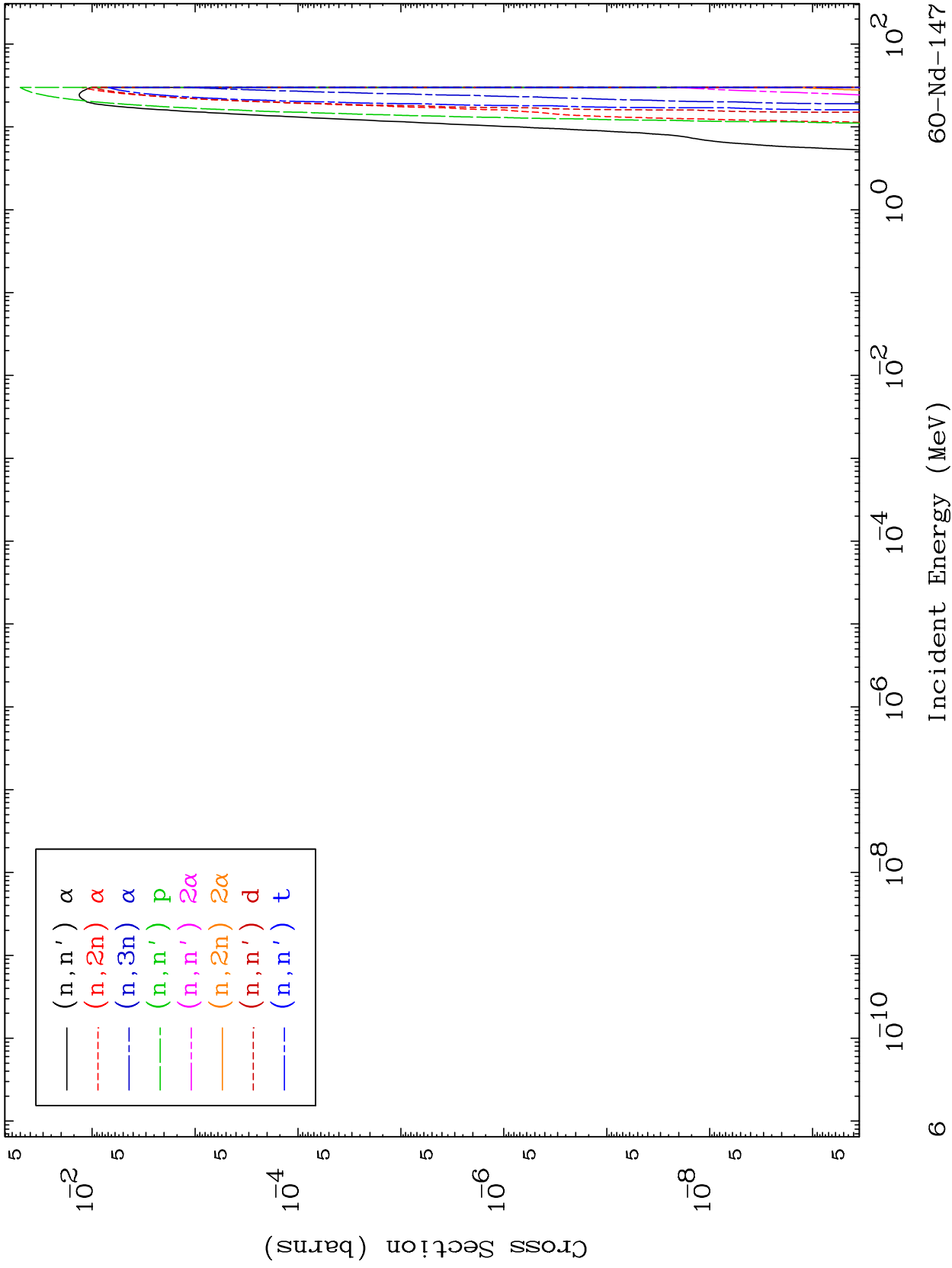
60-Nd-147



MAT 6040

Charged Particle  
293 Kelvin Cross Sections

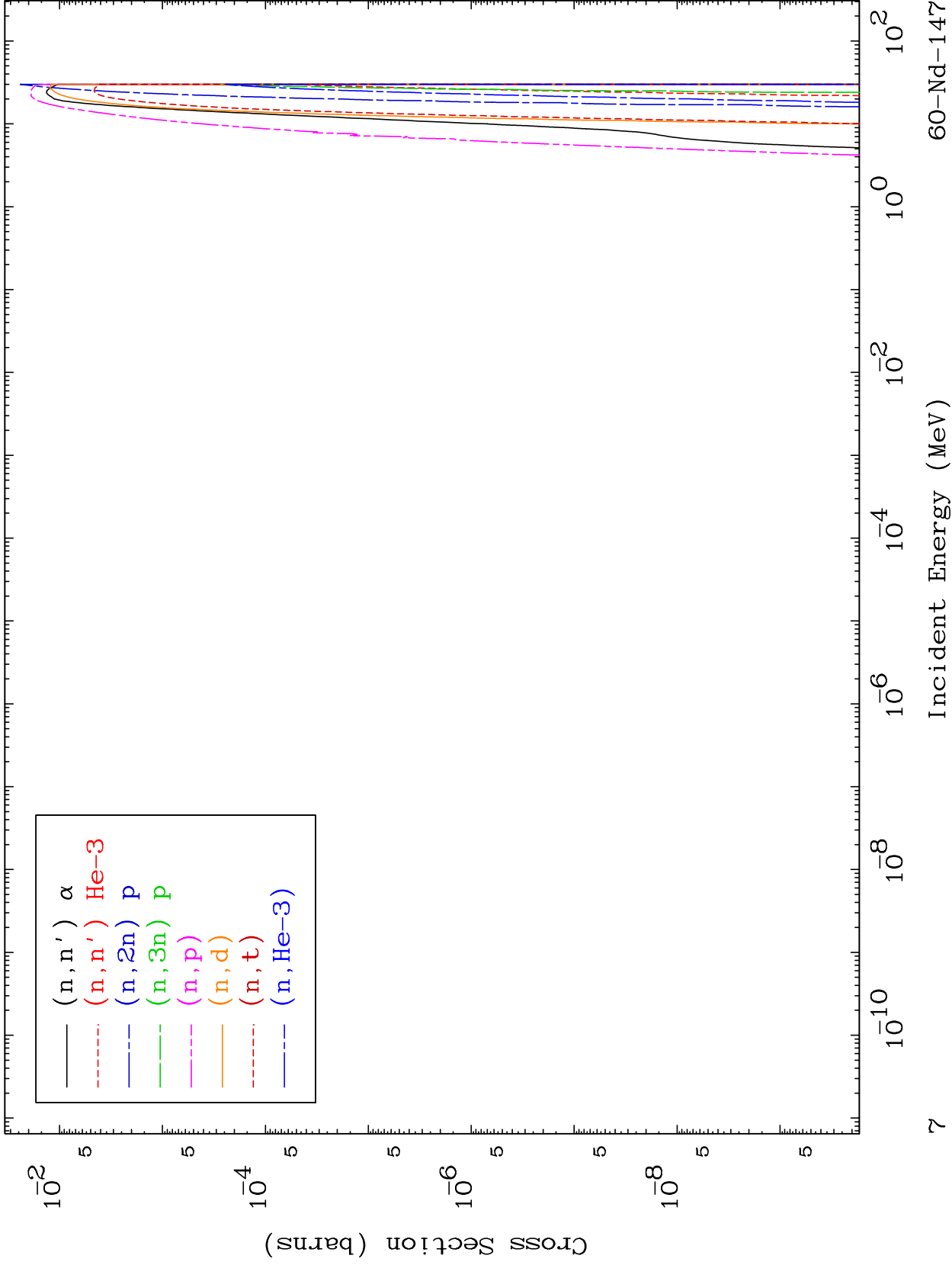
60-Nd-147



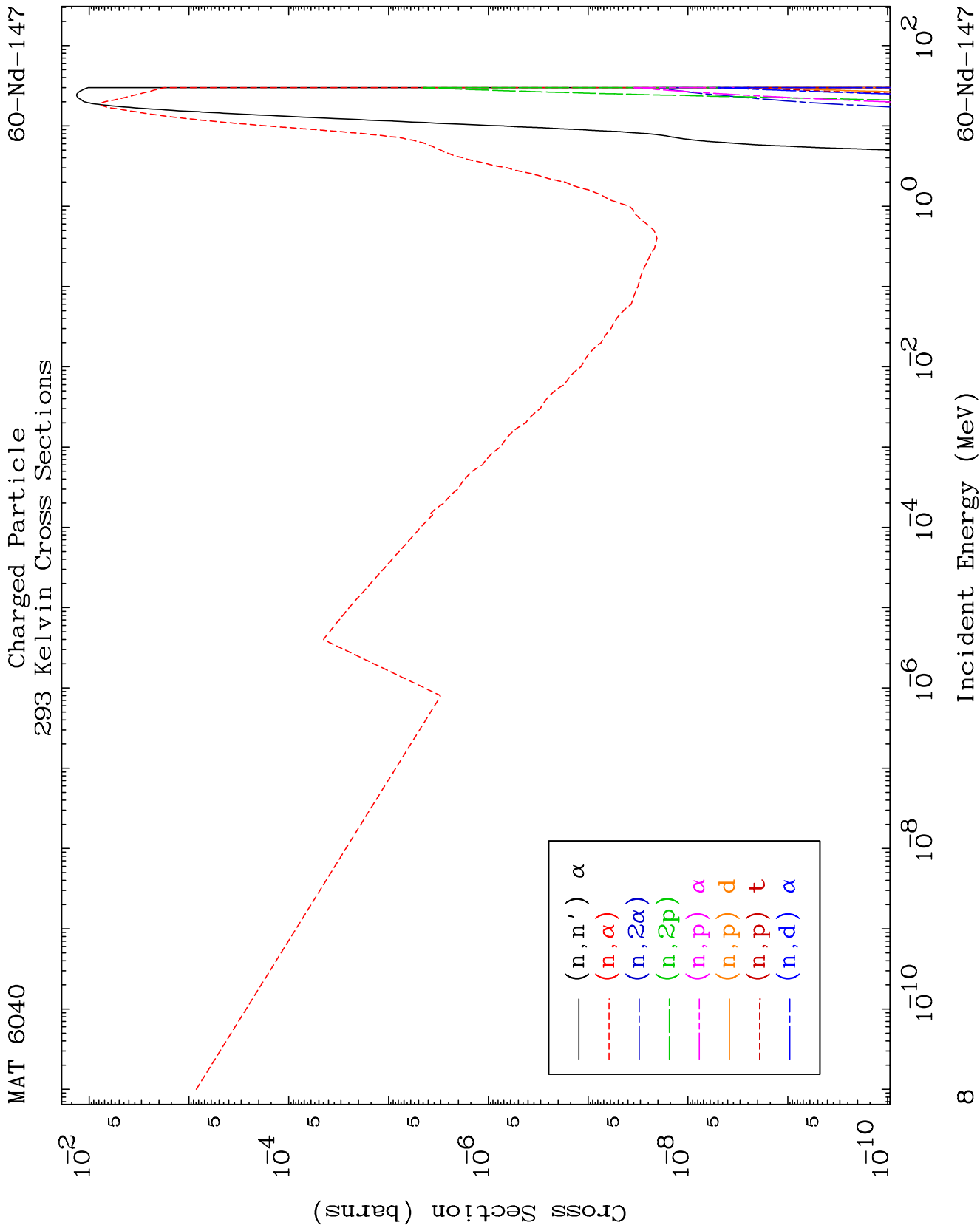
MAT 6040

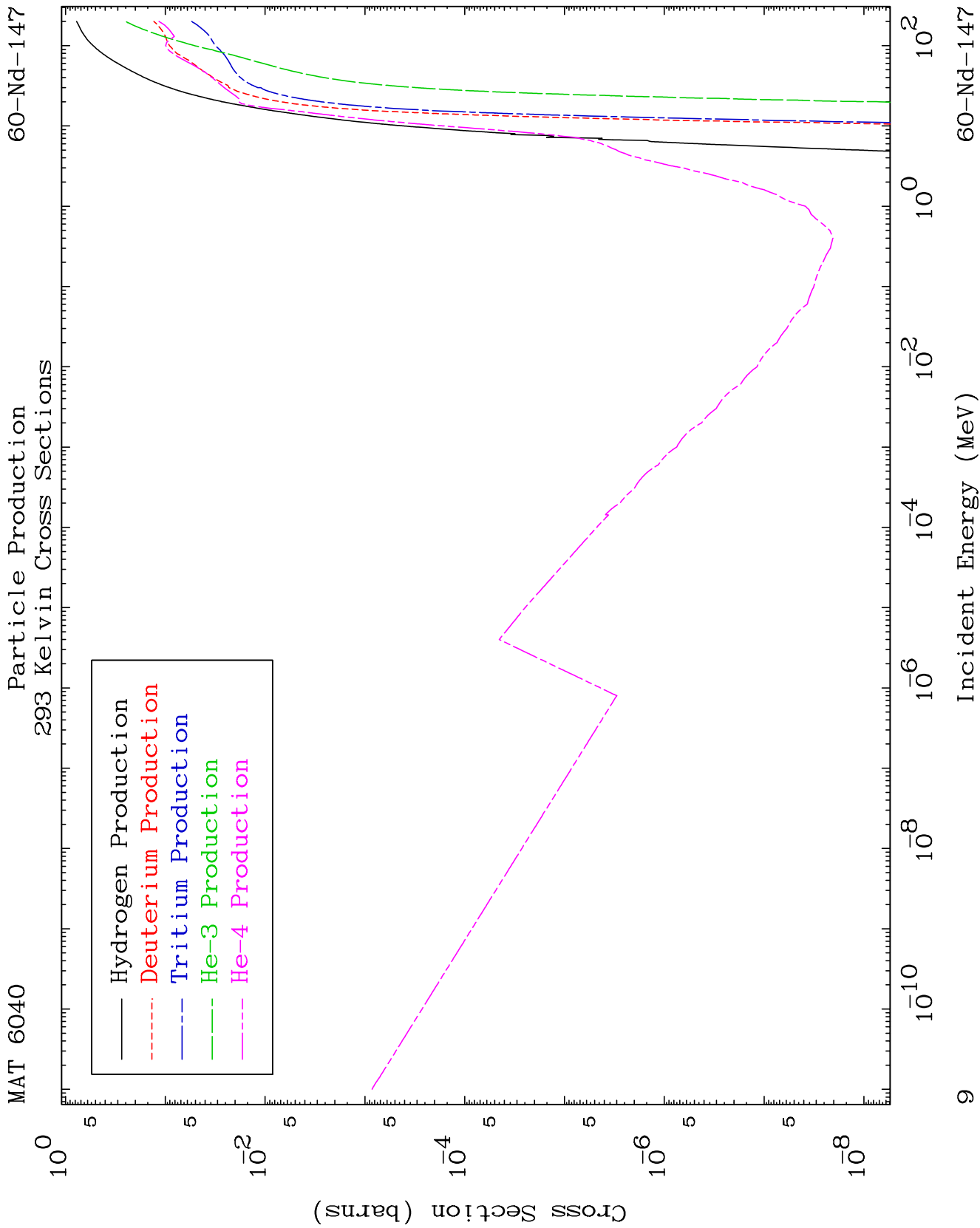
Charged Particle  
293 Kelvin Cross Sections

60-Nd-147







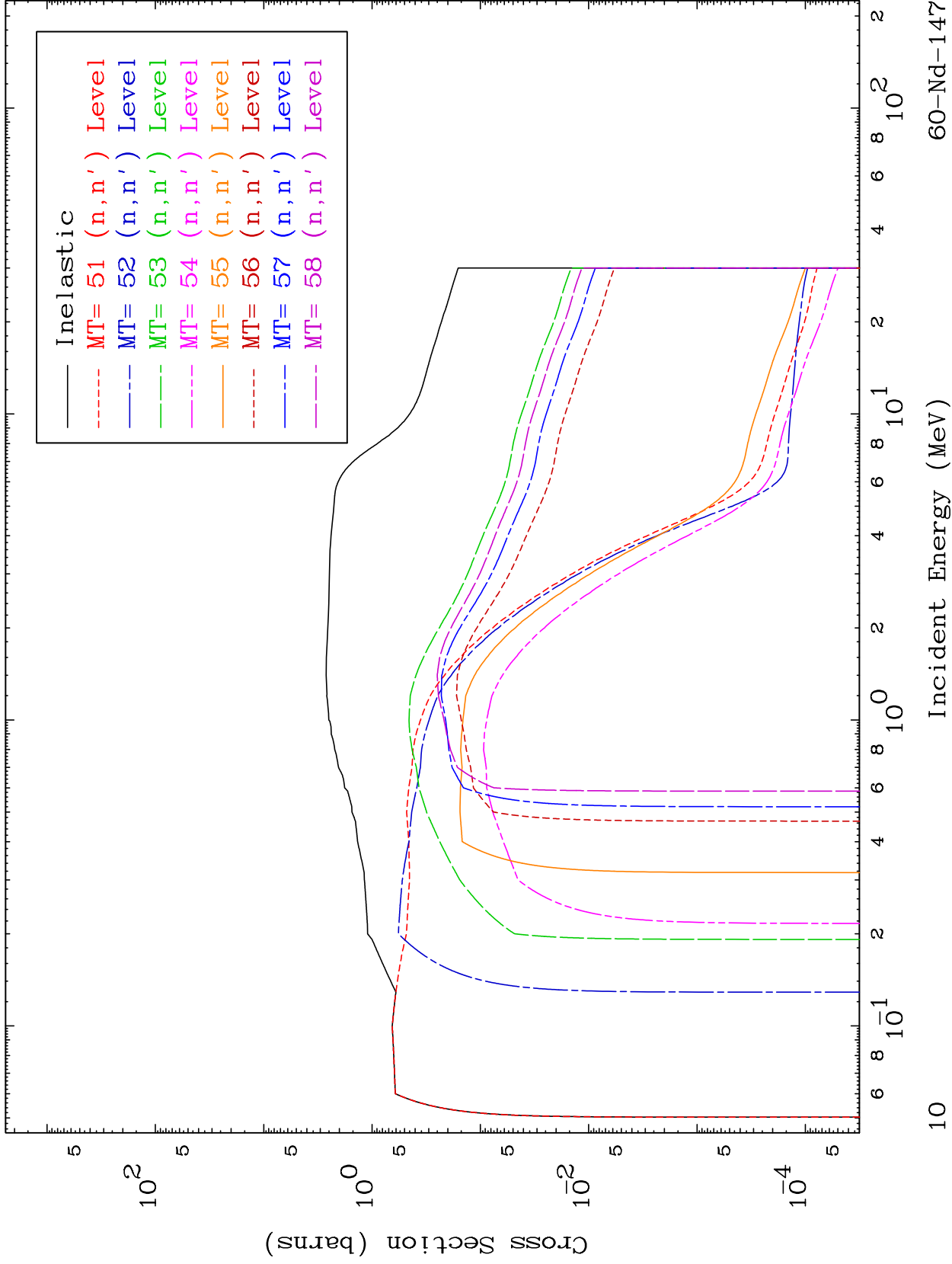


MAT 6040

(n,n') Levels

60-Nd-147

293 Kelvin Cross Sections



10

Incident Energy (MeV)

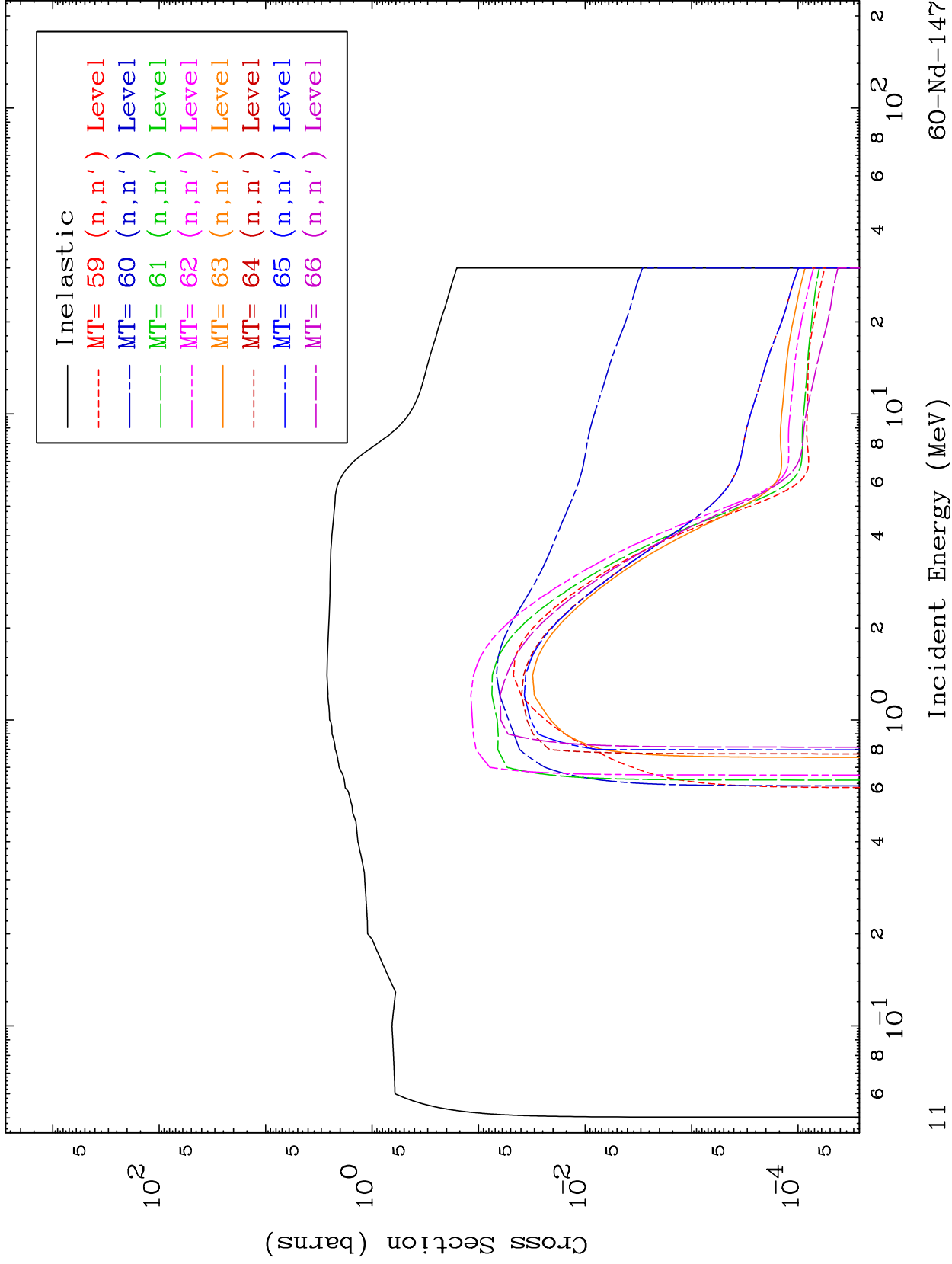
60-Nd-147

MAT 6040

(n,n') Levels

60-Nd-147

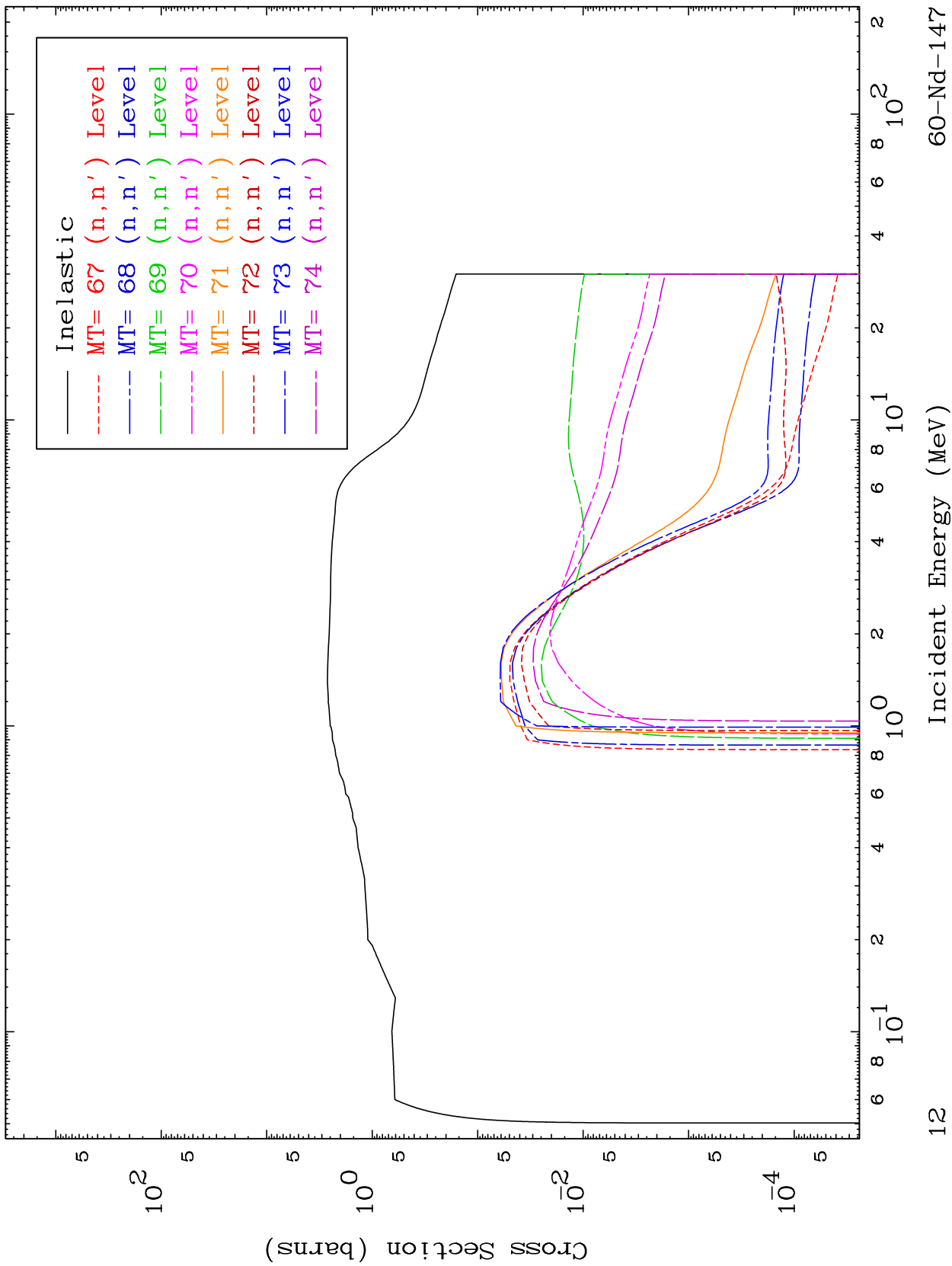
293 Kelvin Cross Sections



MAT 6040

(n,n') Levels  
293 Kelvin Cross Sections

60-Nd-147



12

Incident Energy (MeV)

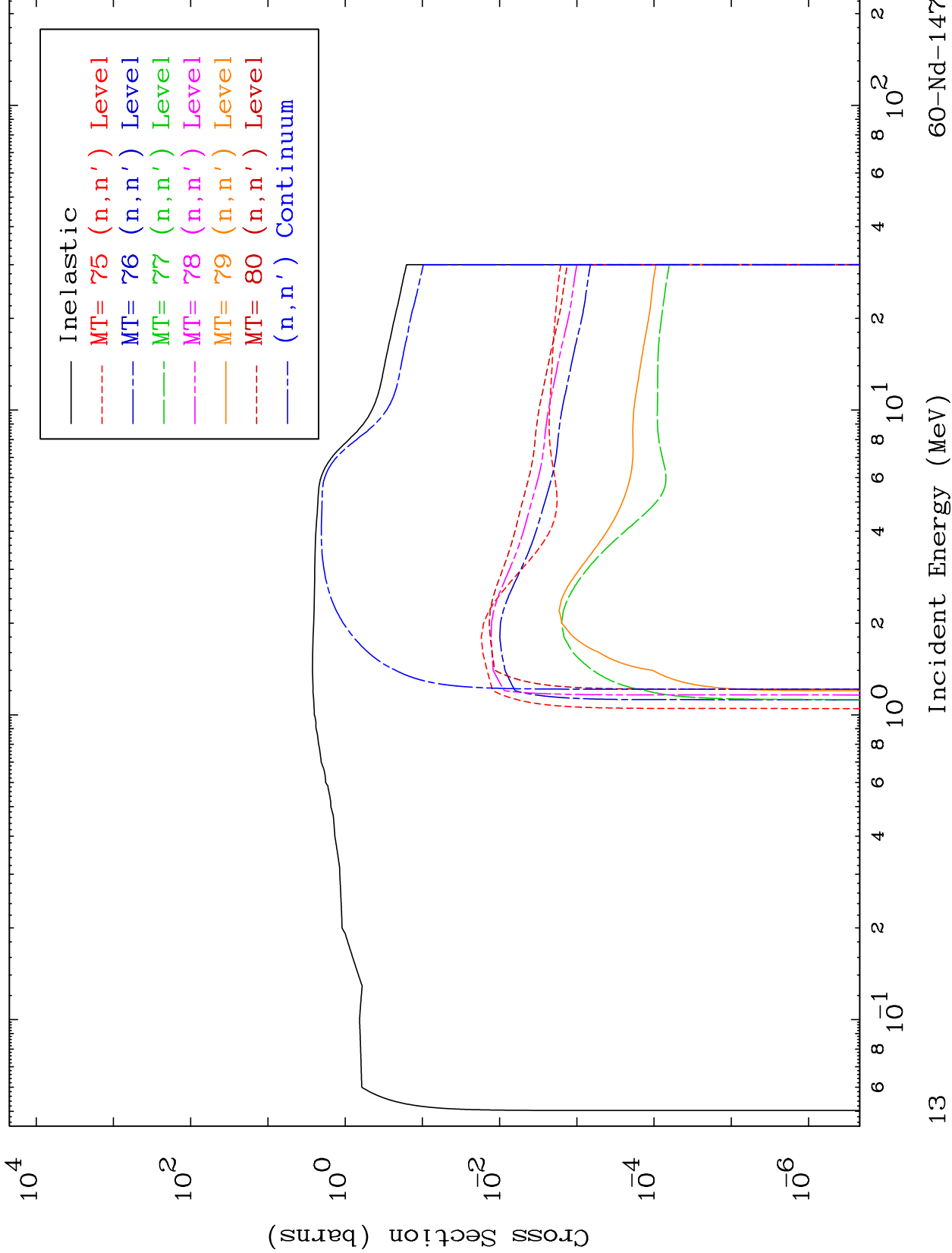
60-Nd-147

MAT 6040

(n,n') Levels

60-Nd-147

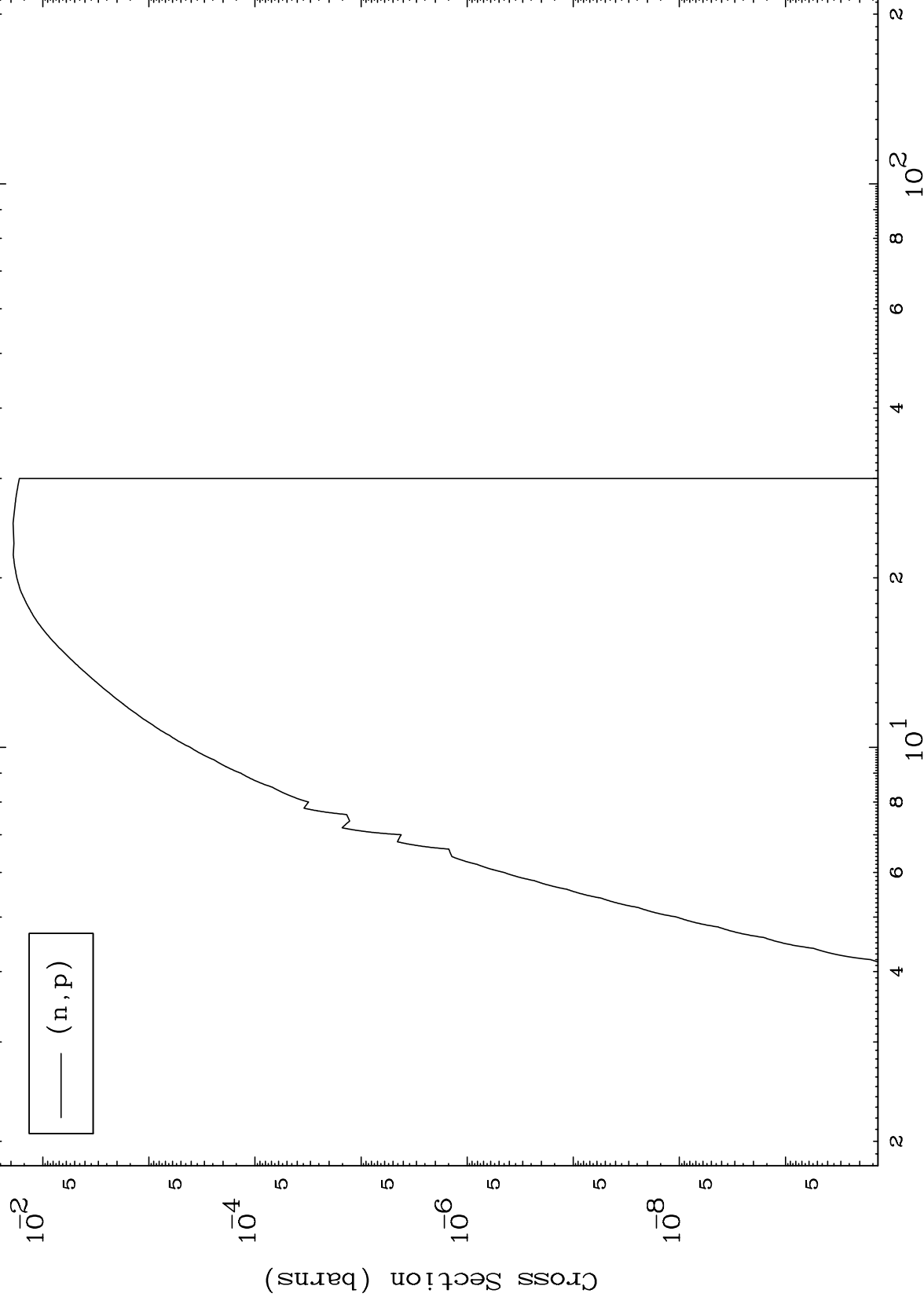
293 Kelvin Cross Sections



MAT 6040

(n,p) Levels  
293 Kelvin Cross Sections

60-Nd-147



14

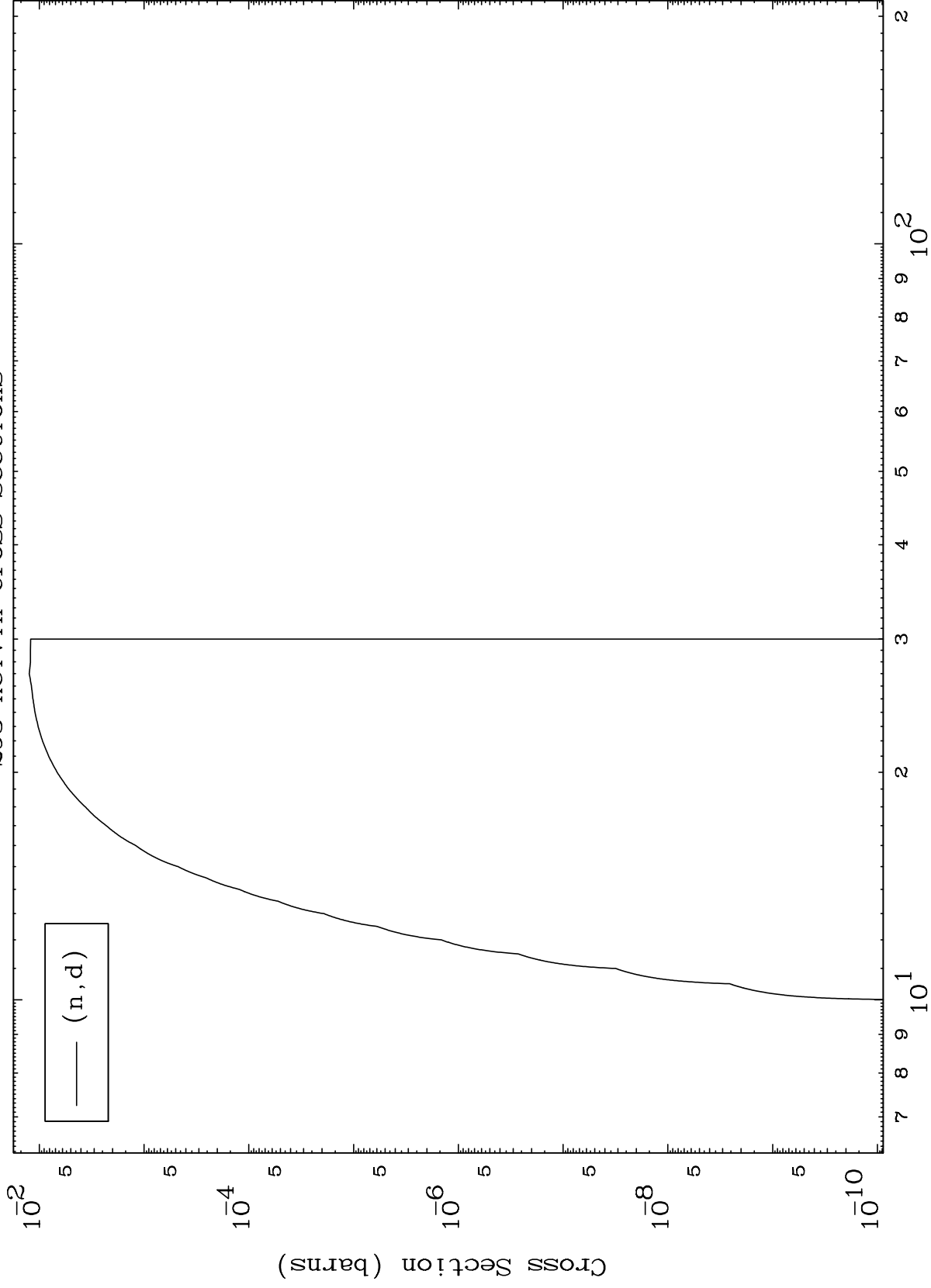
Incident Energy (MeV)

60-Nd-147

MAT 6040

(n,d) Levels  
293 Kelvin Cross Sections

60-Nd-147



15

Incident Energy (MeV)

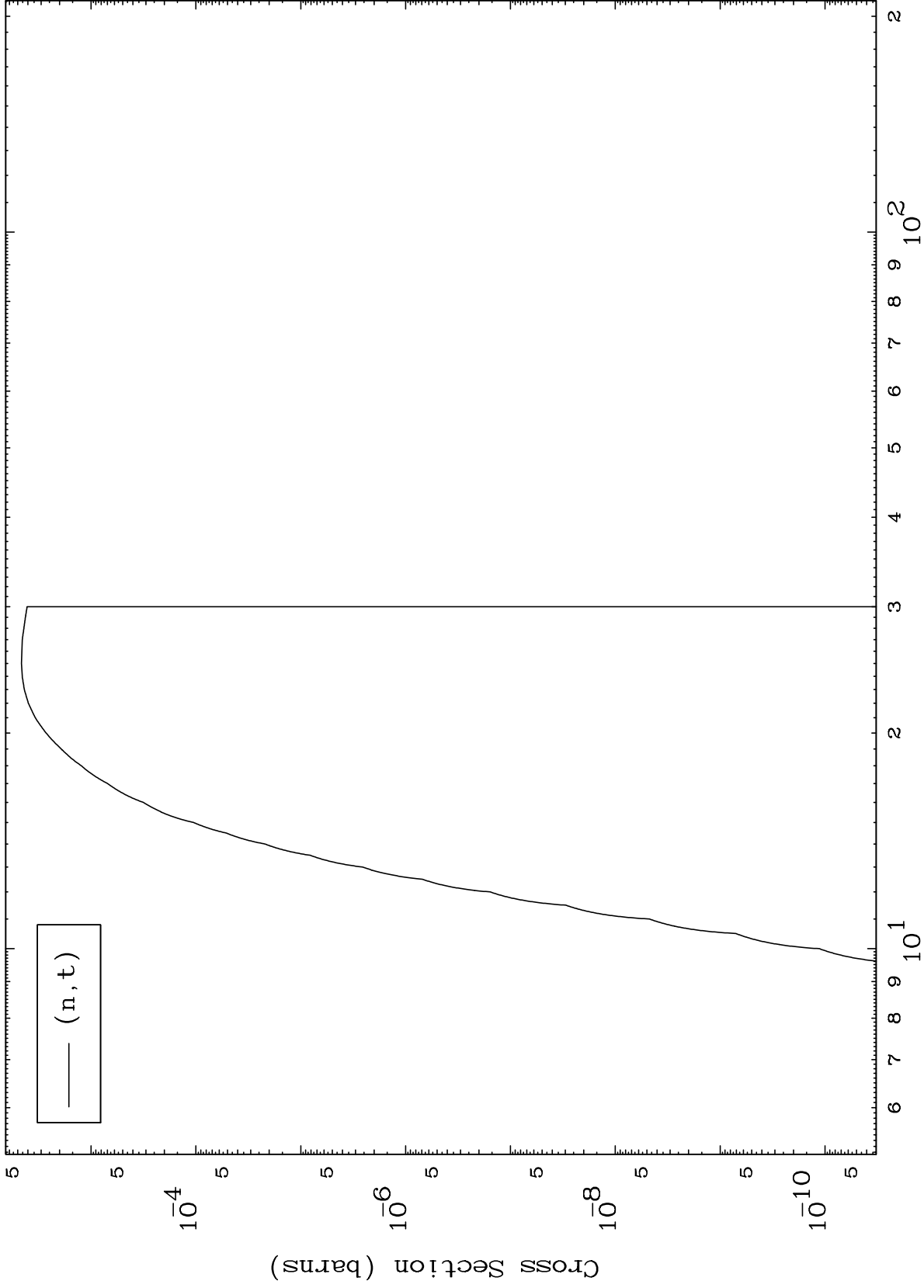
60-Nd-147



MAT 6040

(n,t) Levels  
293 Kelvin Cross Sections

60-Nd-147



16

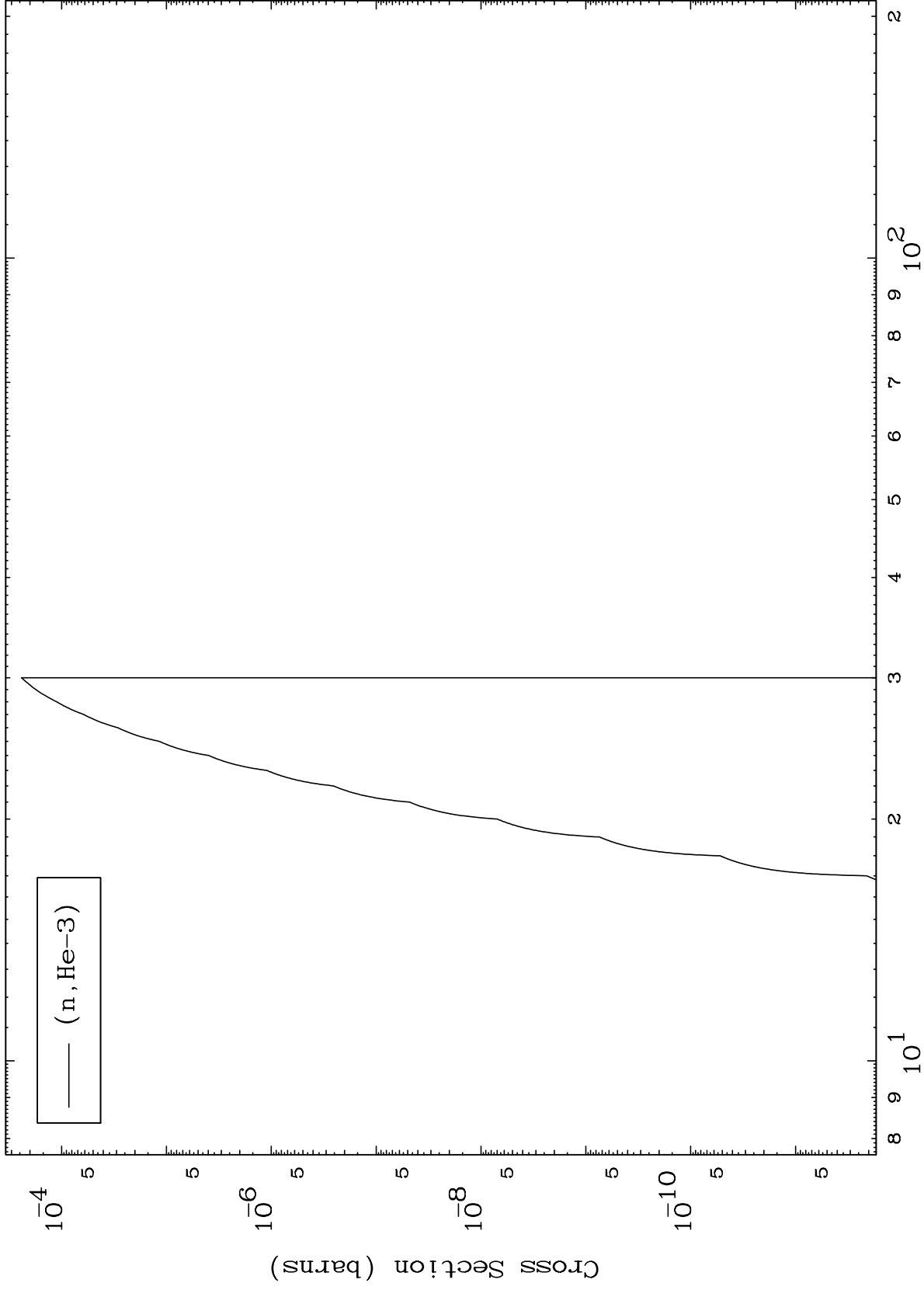
Incident Energy (MeV)

60-Nd-147

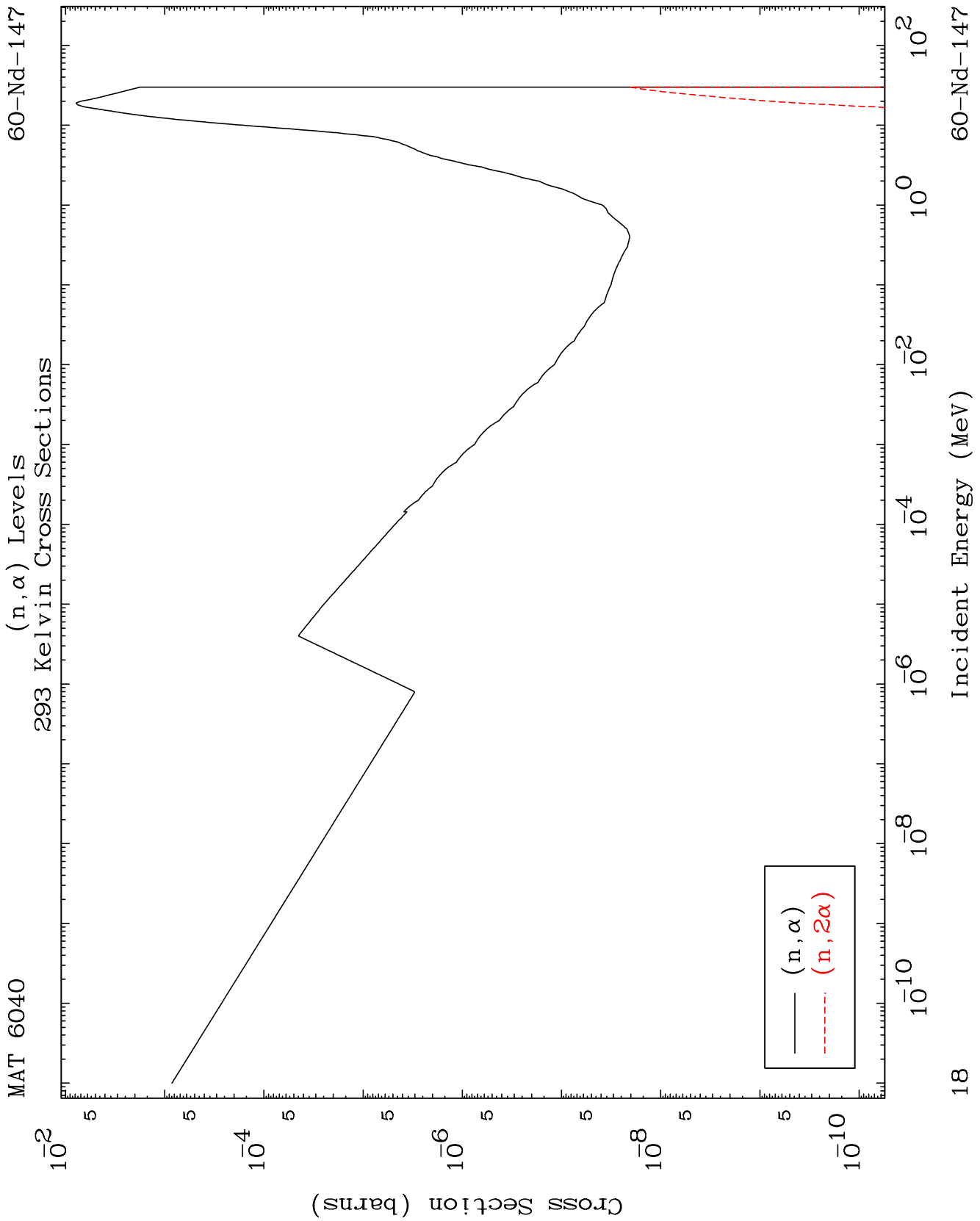
MAT 6040

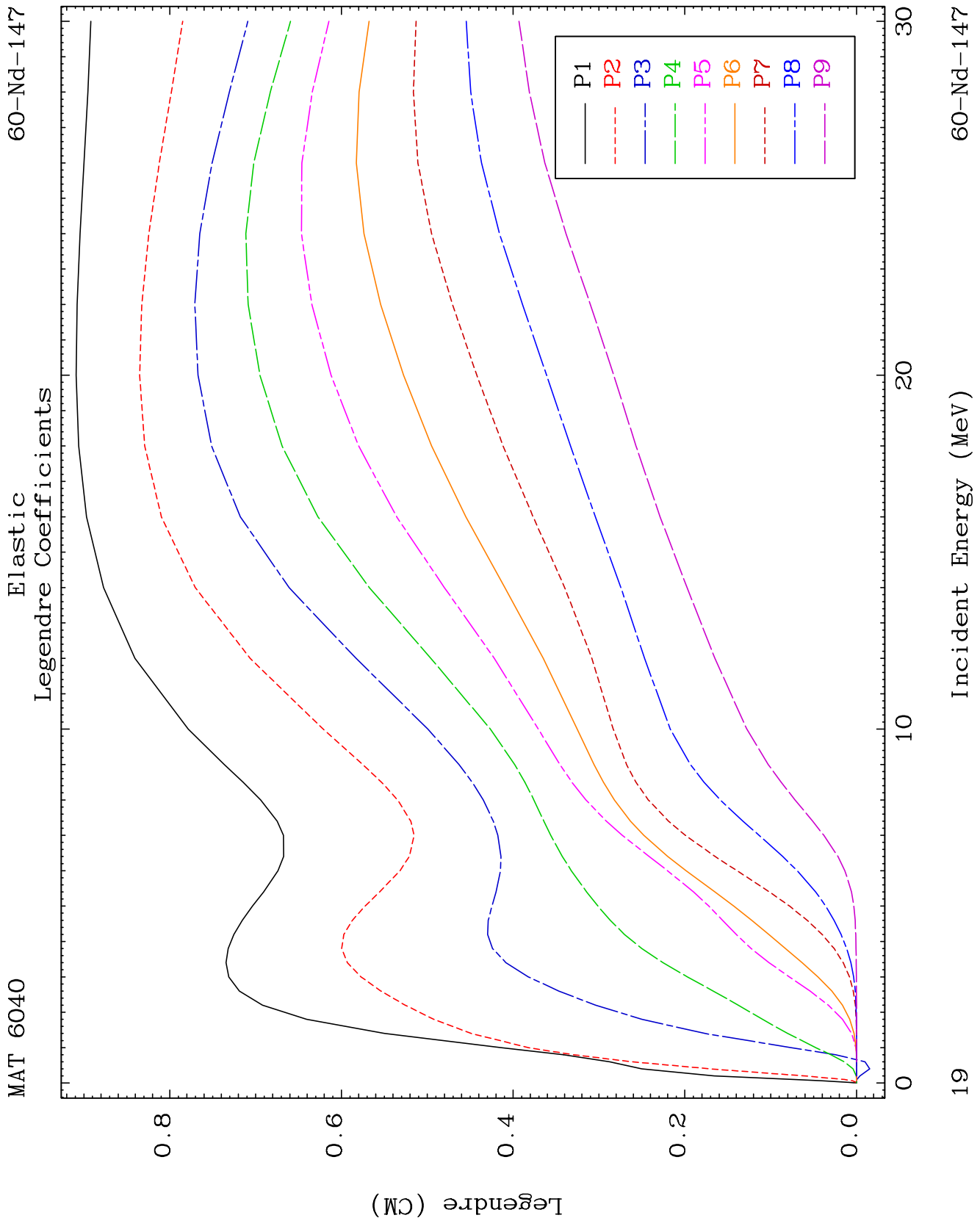
(n,He3) Levels  
293 Kelvin Cross Sections

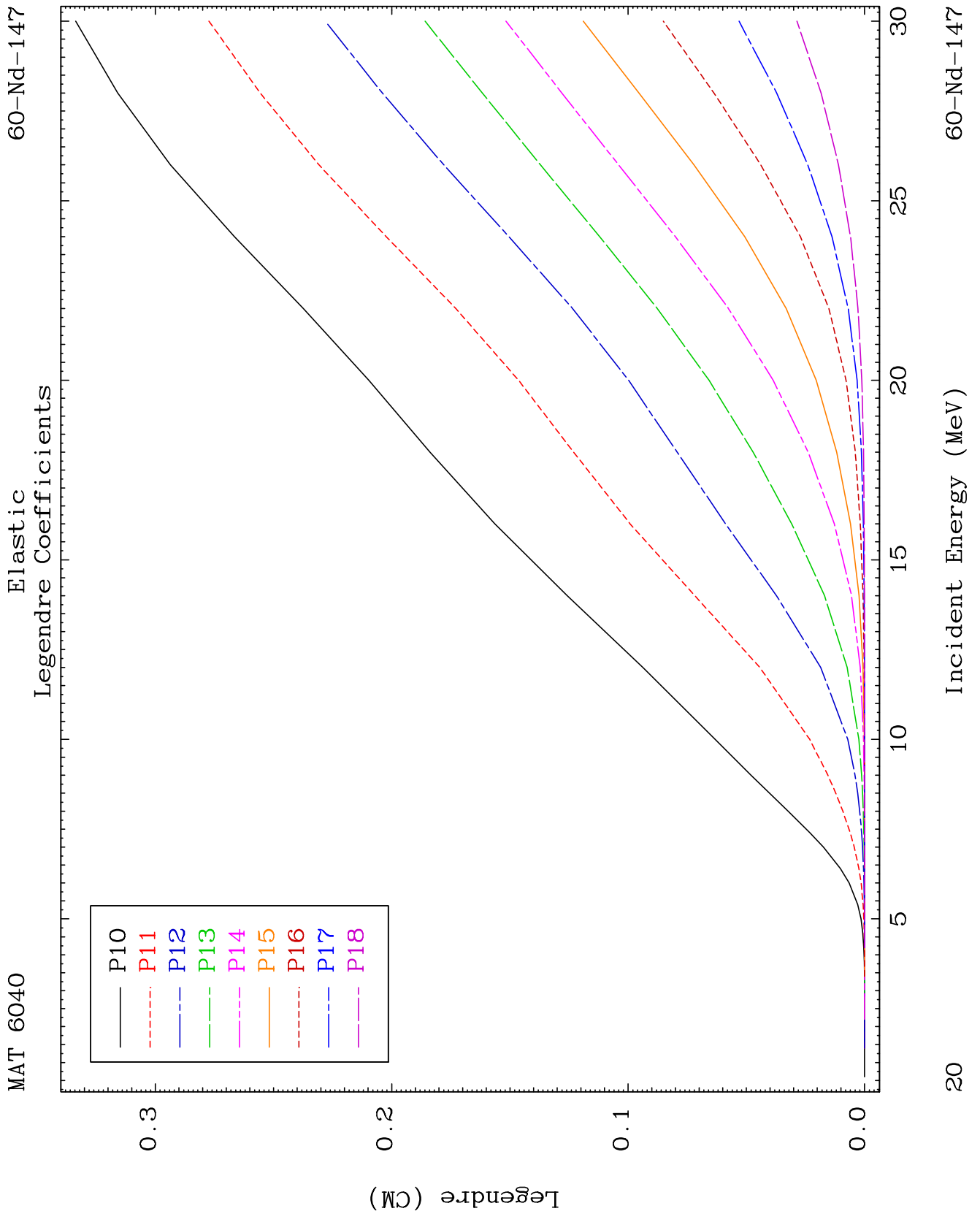
60-Nd-147

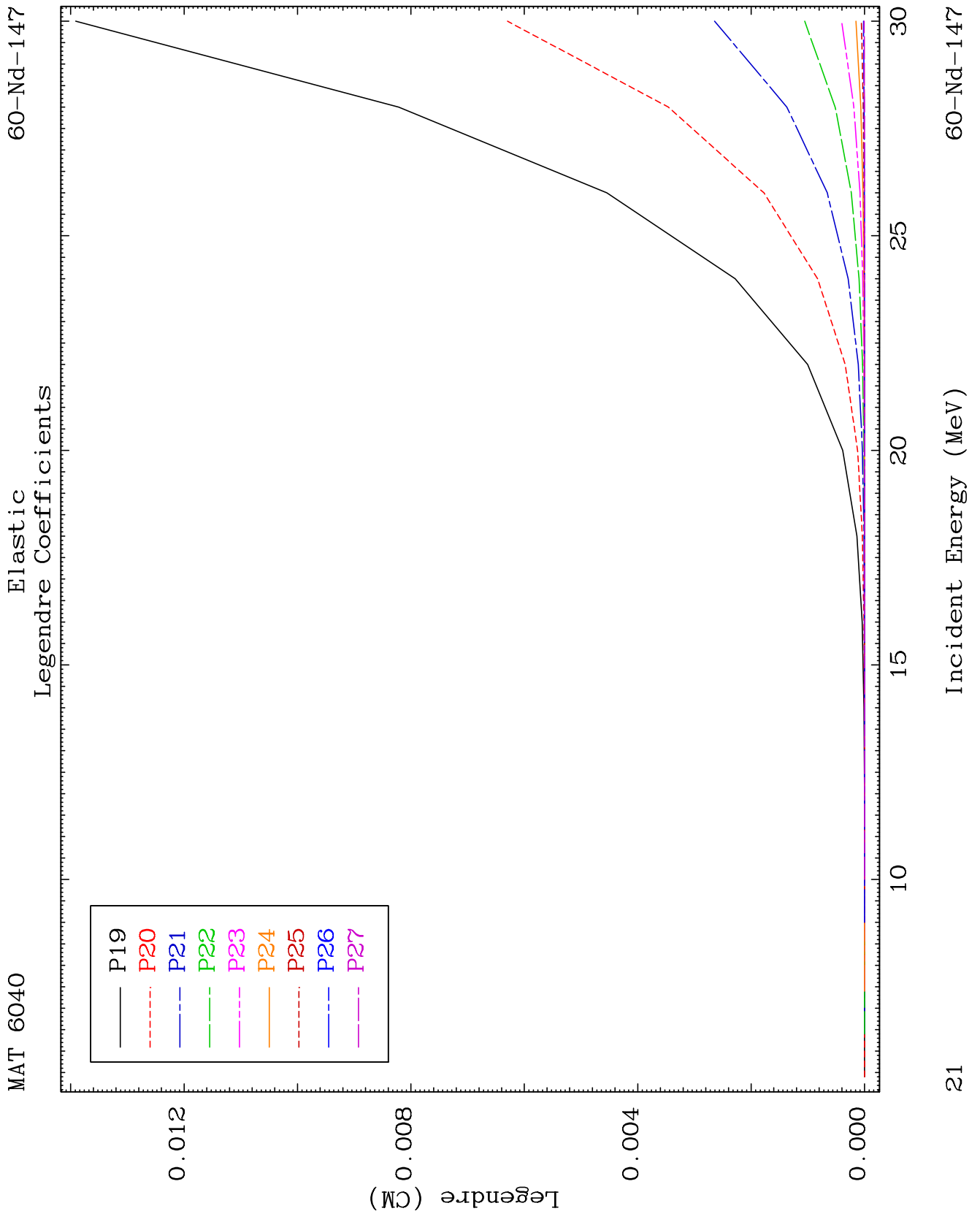


60-Nd-147





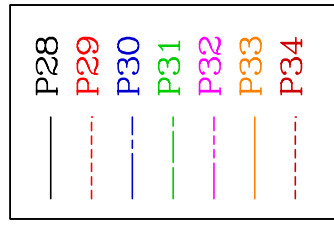




MAT 6040

Elastic  
Legendre Coefficients

60-Nd-147



$\times 10^{-6}$

1.5

1.0

0.5

0.0

15

20

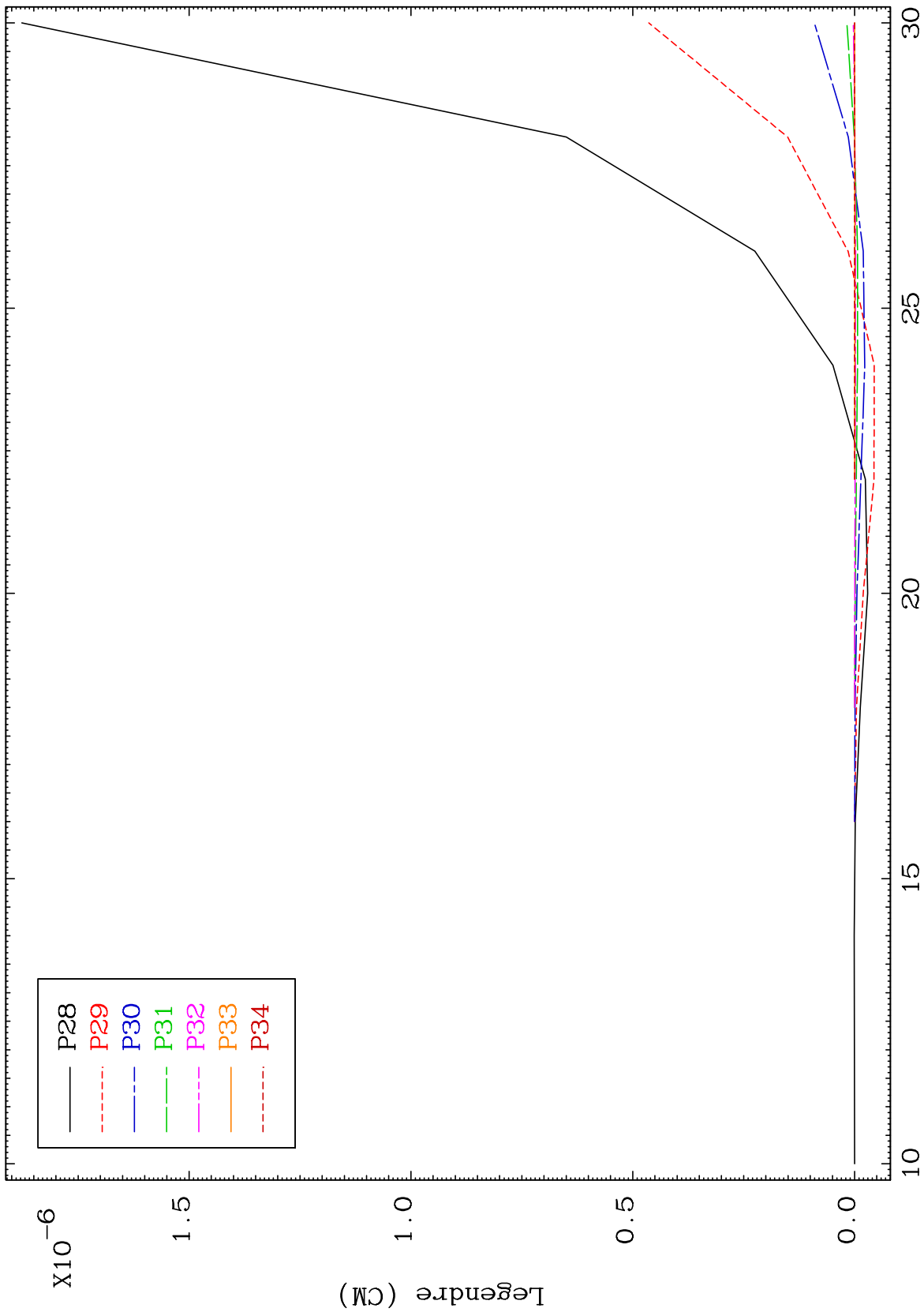
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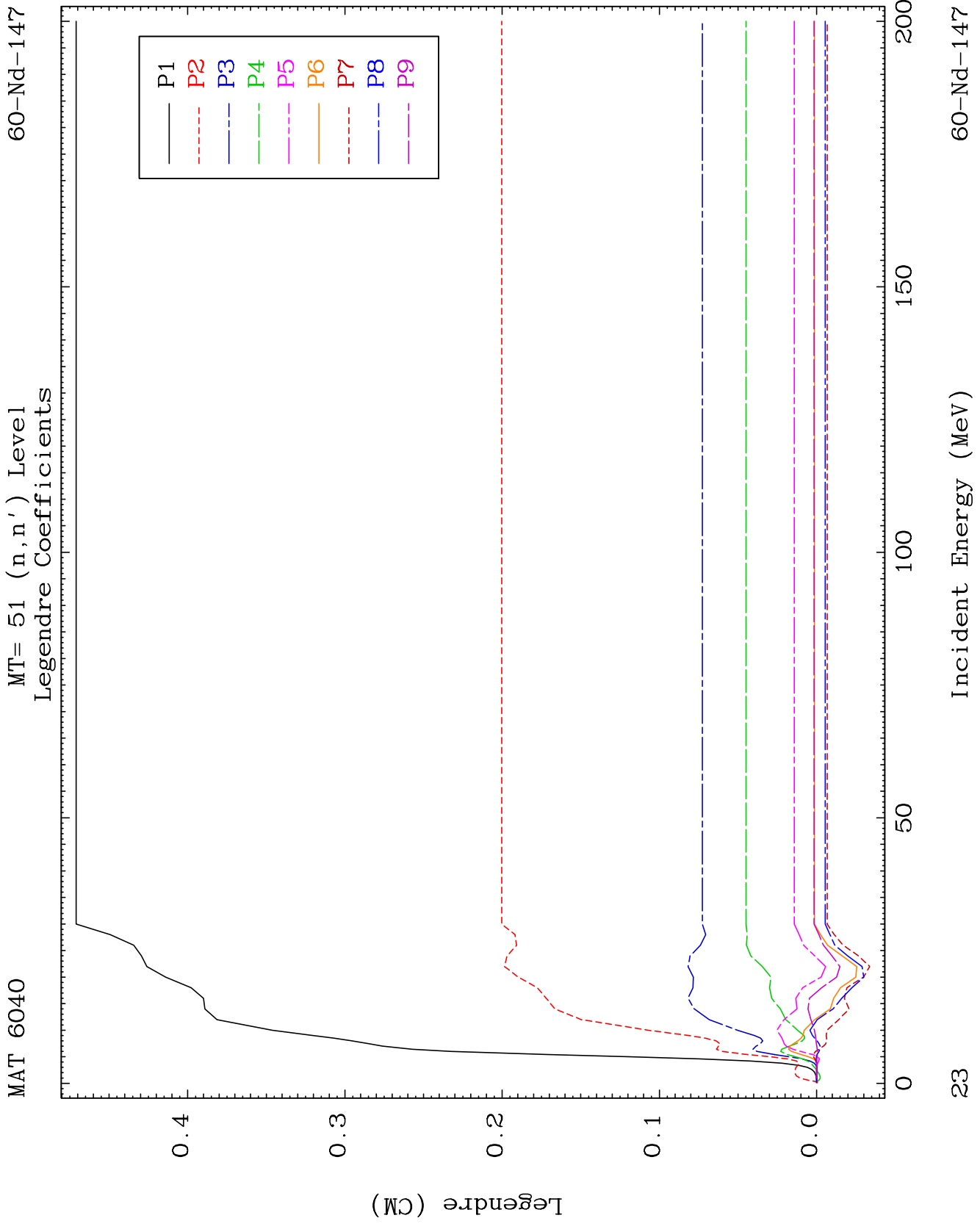
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22

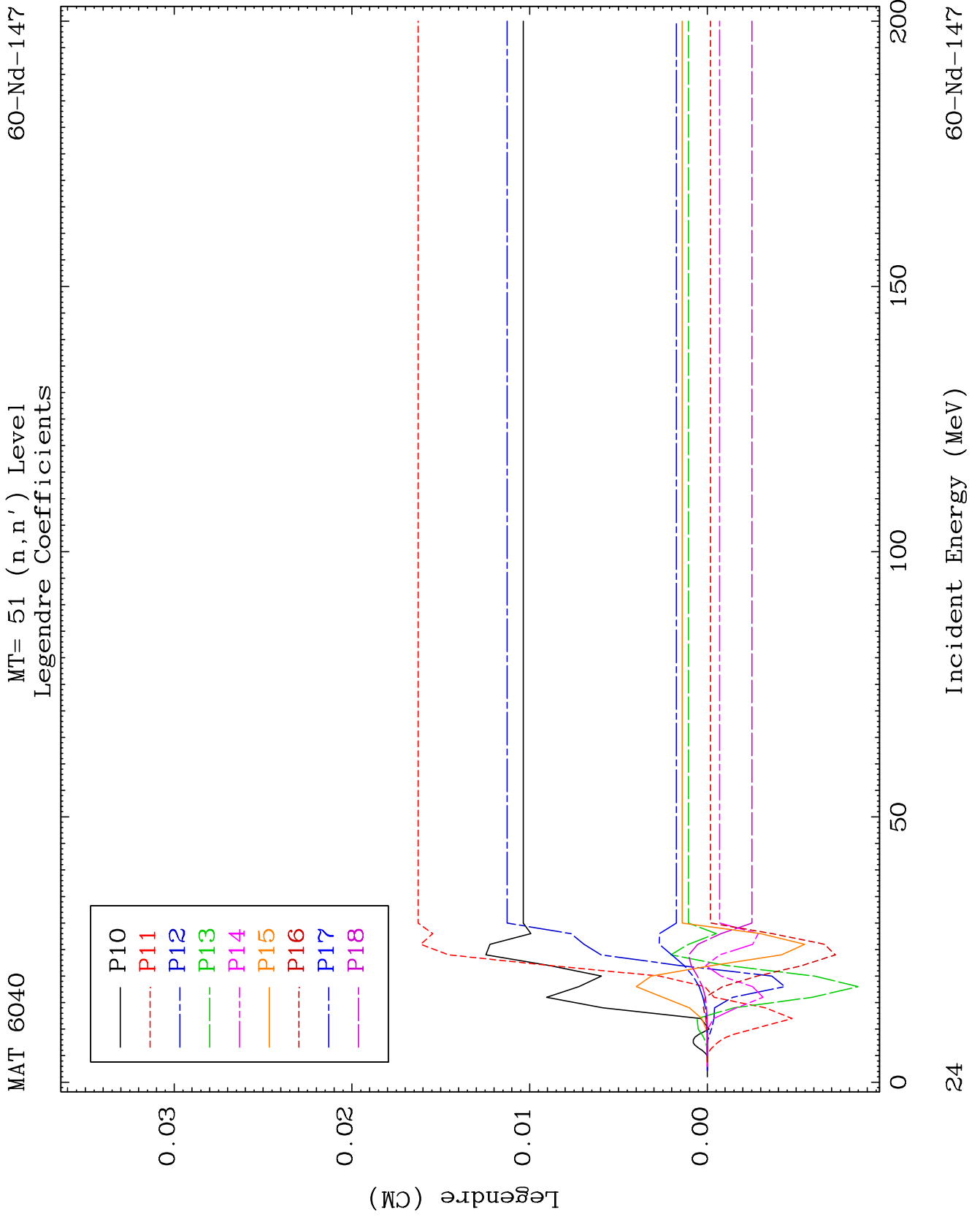
Incident Energy (MeV)

60-Nd-147





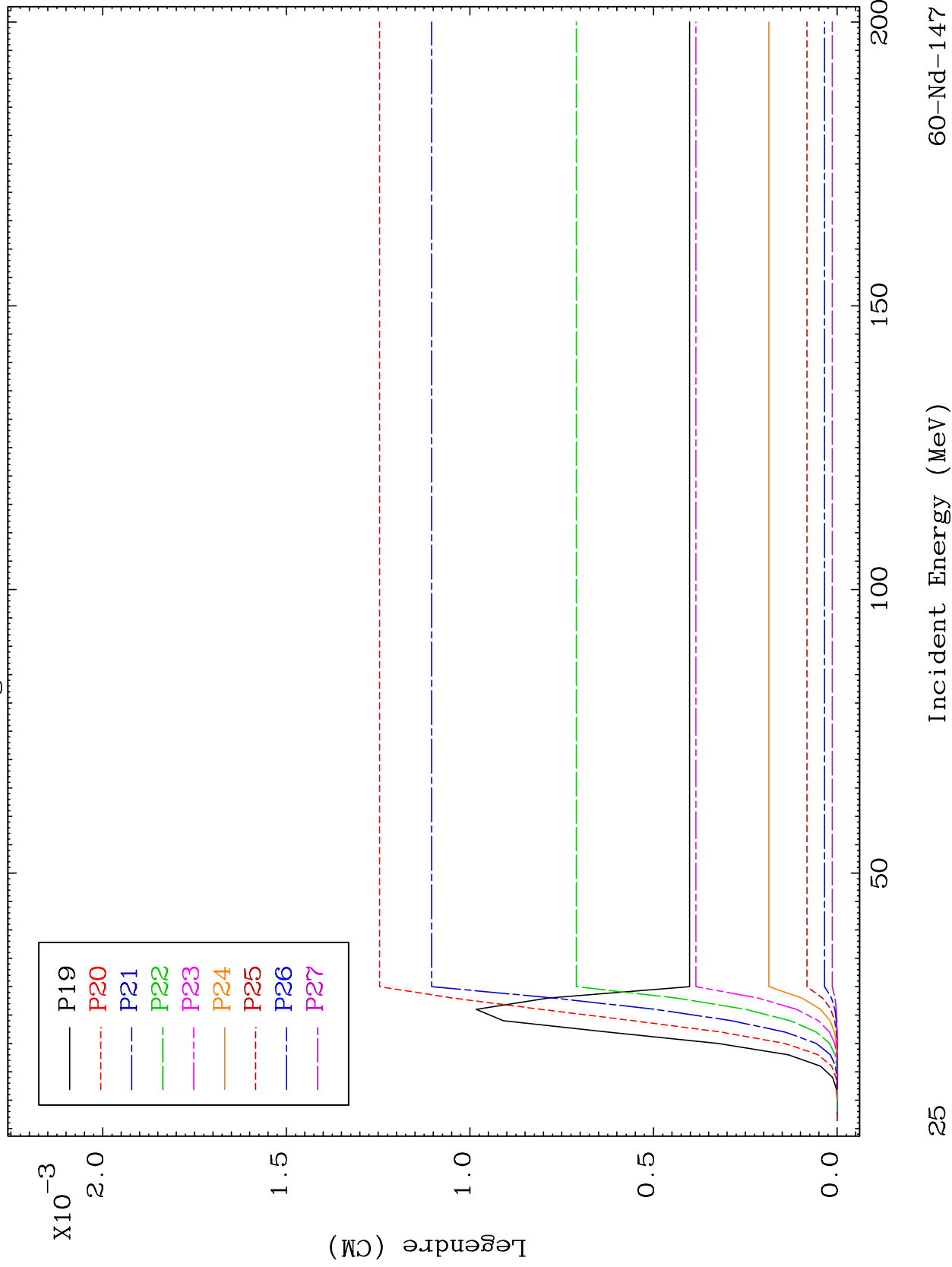




MAT 6040

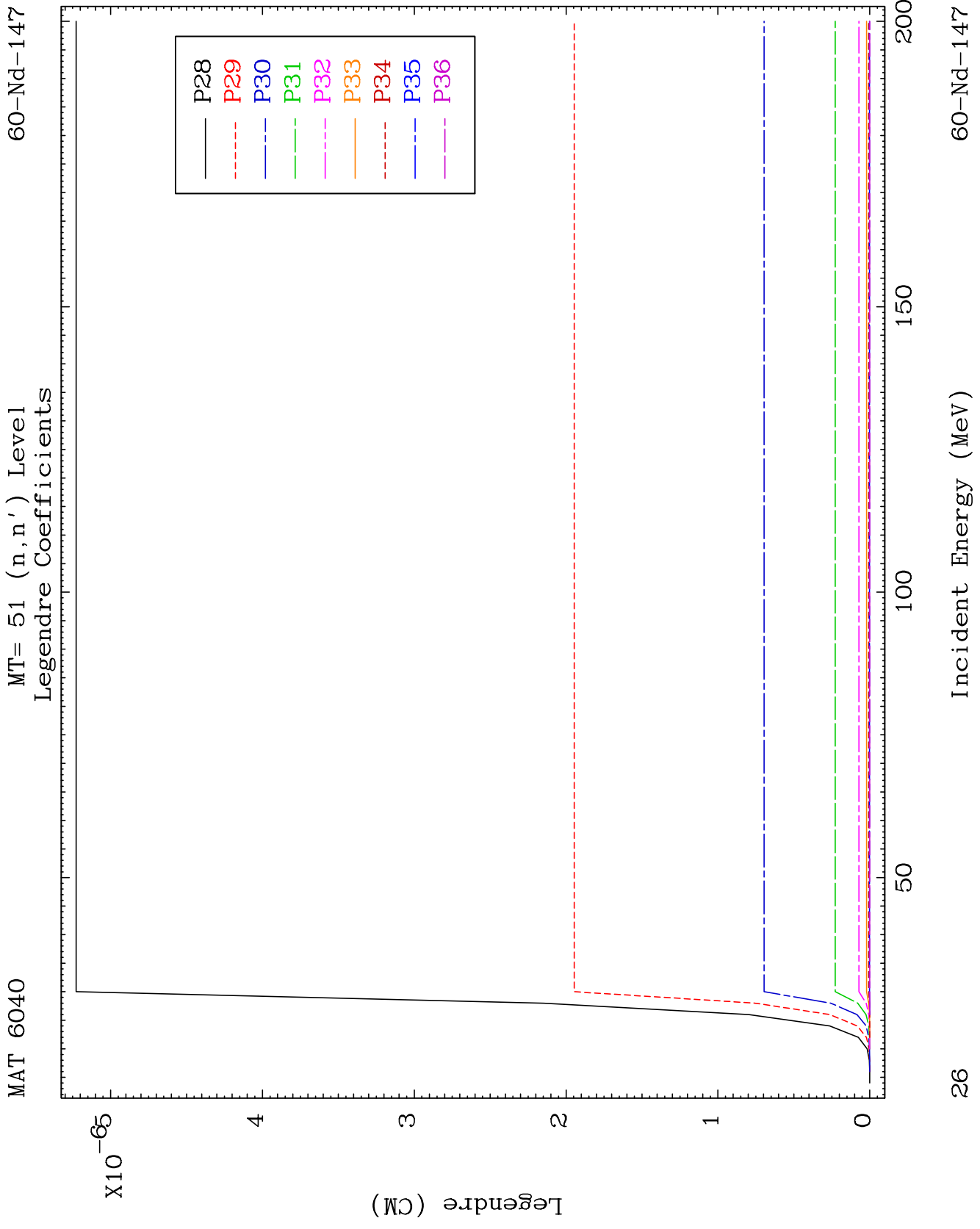
MT= 51 (n,n') Level  
Legendre Coefficients

60-Nd-147



60-Nd-147

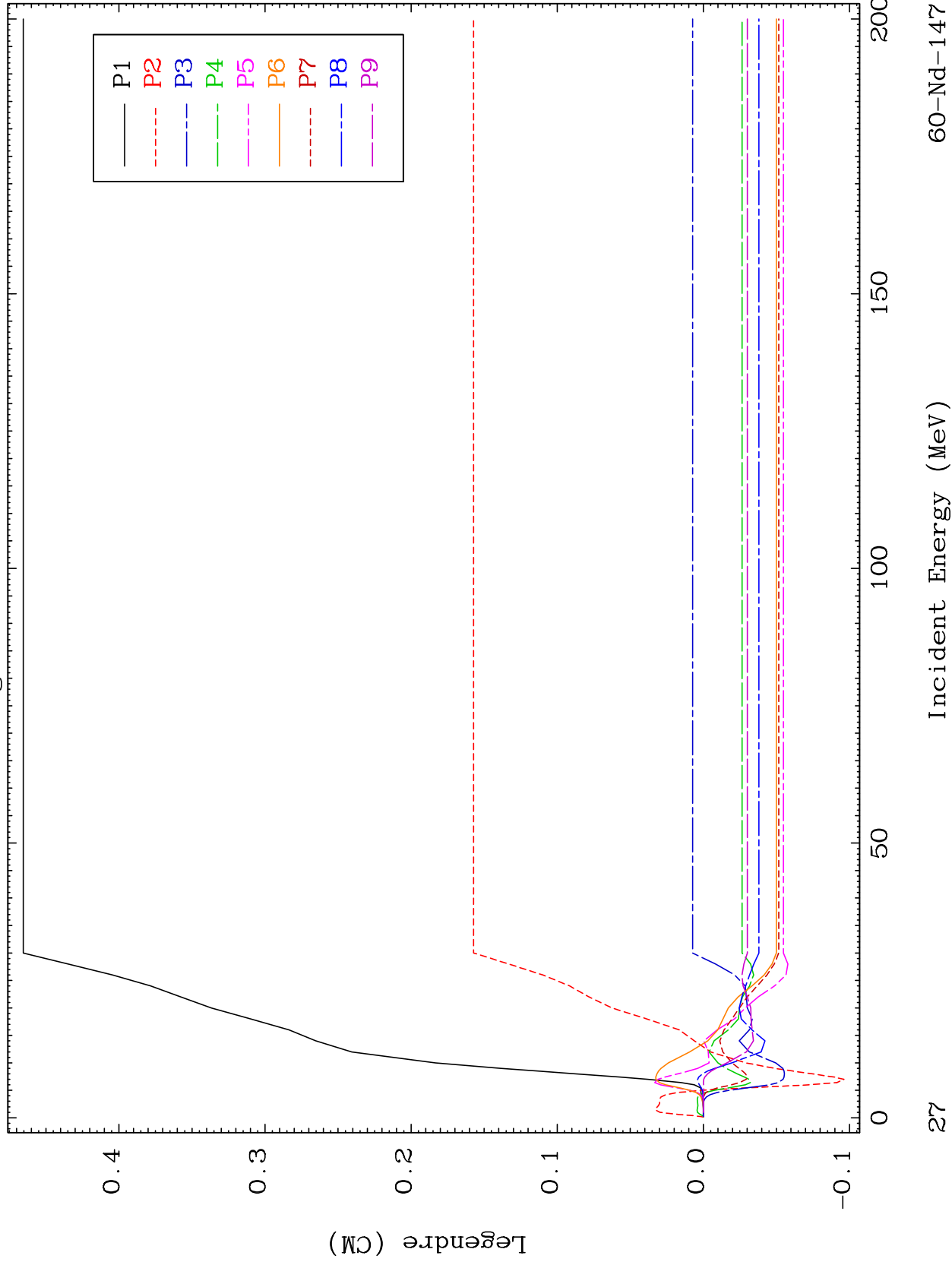
25



MAT 6040

MT= 52 (n,n') Level  
Legendre Coefficients

60-Nd-147



60-Nd-147

Incident Energy (MeV)

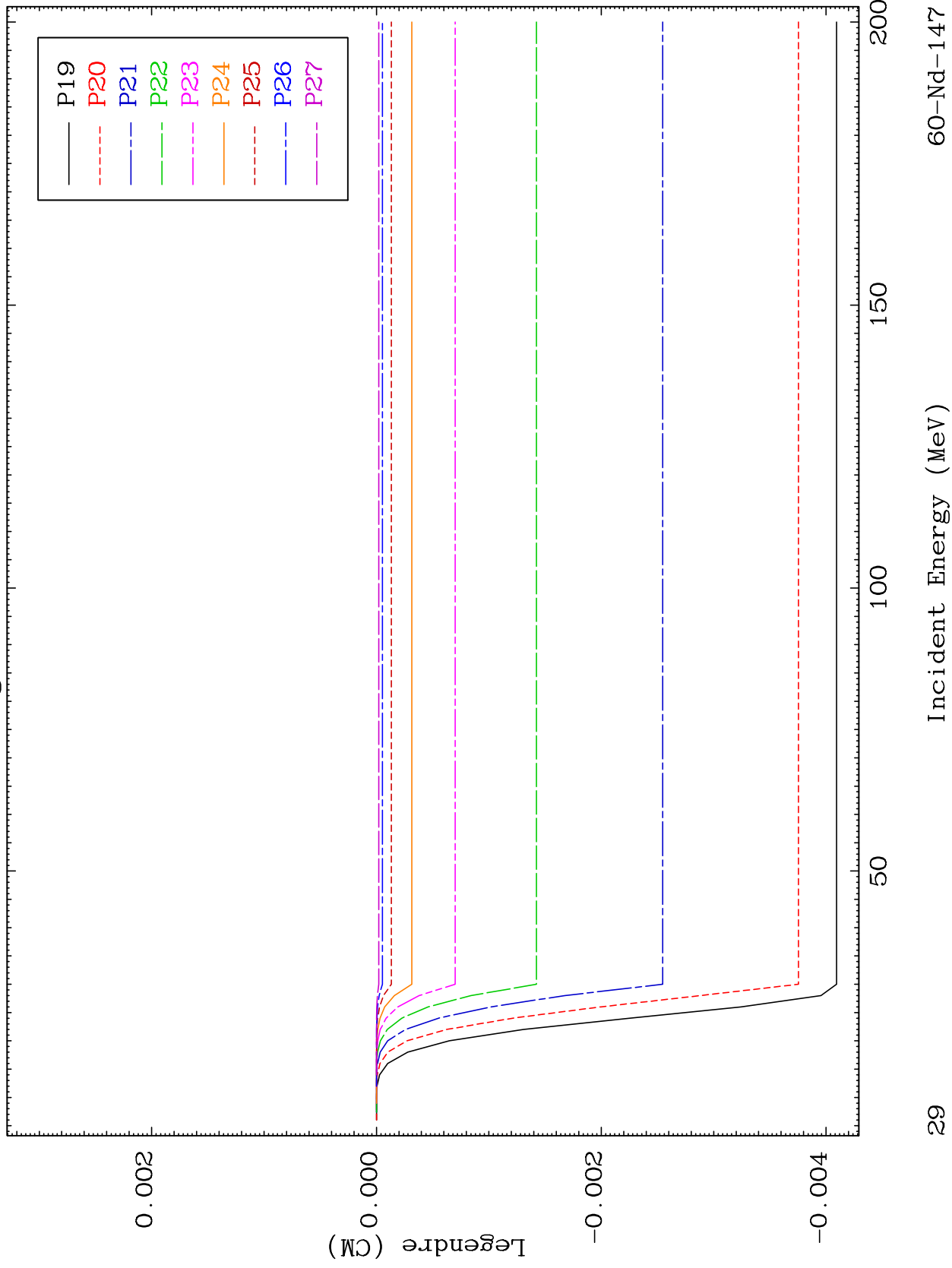
27



MAT 6040

MT= 52 (n,n') Level  
Legendre Coefficients

60-Nd-147

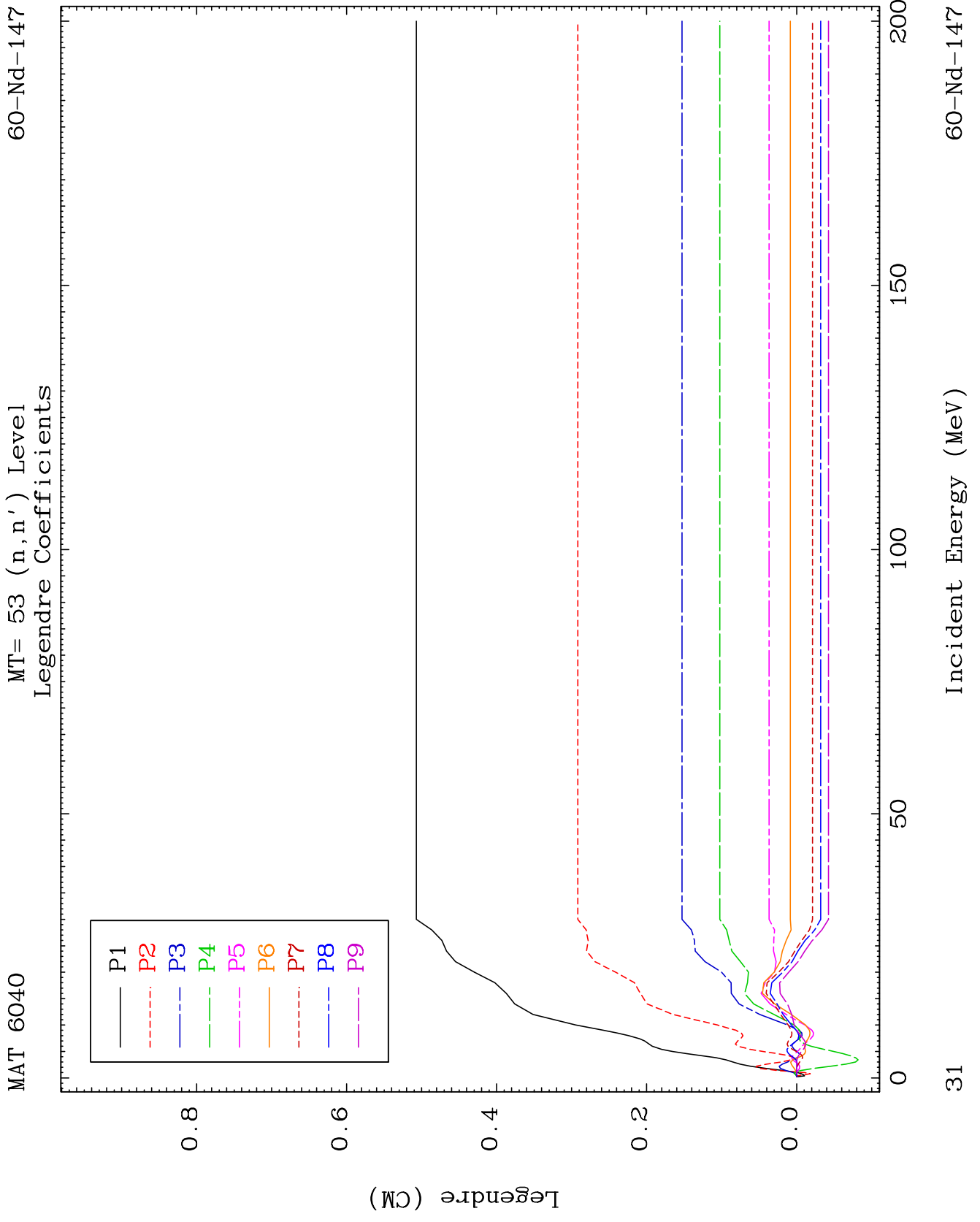


29

Incident Energy (MeV)

60-Nd-147



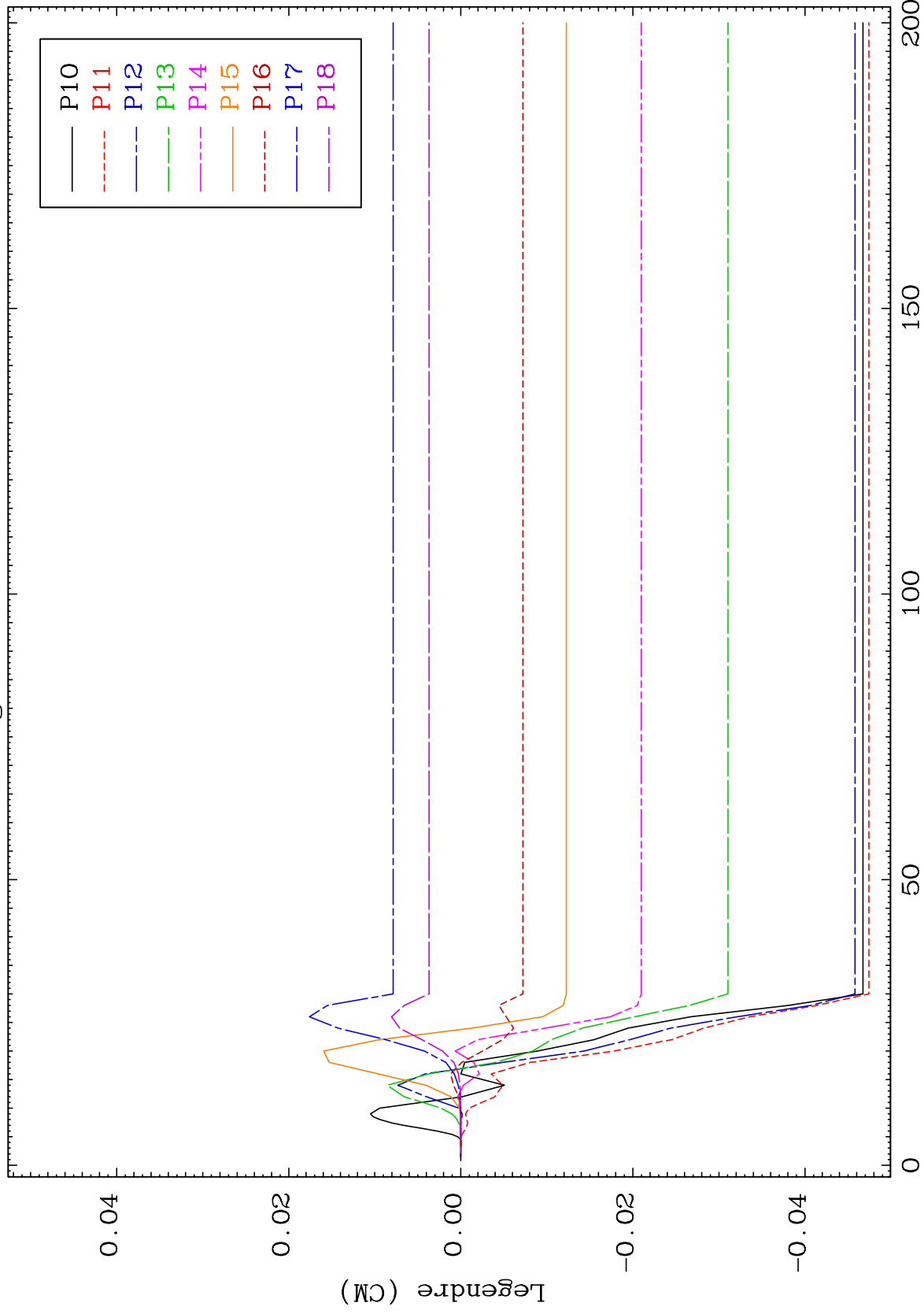




MAT 6040

MT= 53 (n,n') Level  
Legendre Coefficients

60-Nd-147



32

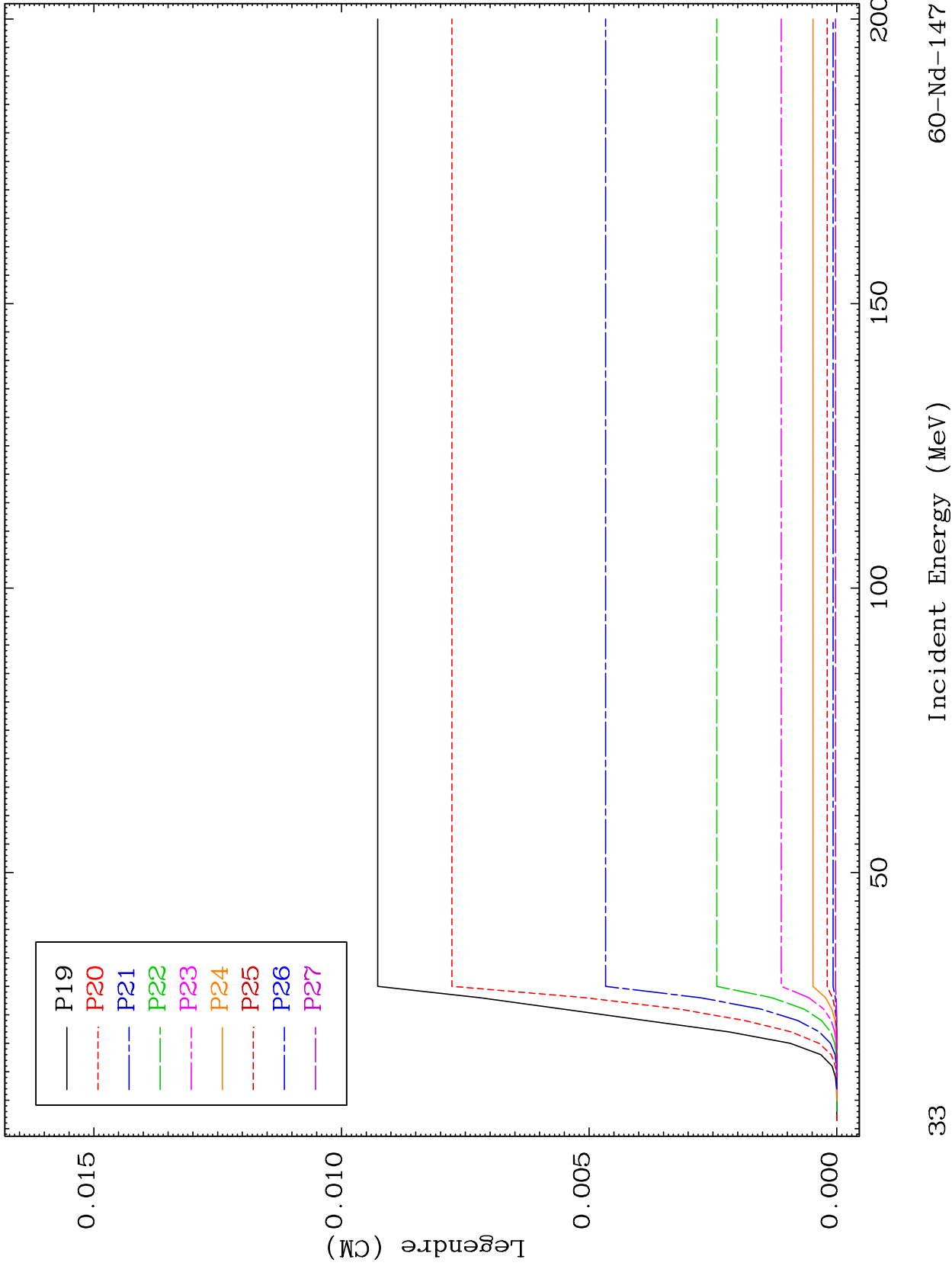
Incident Energy (MeV)

60-Nd-147

MAT 6040

MT= 53 (n,n') Level  
Legendre Coefficients

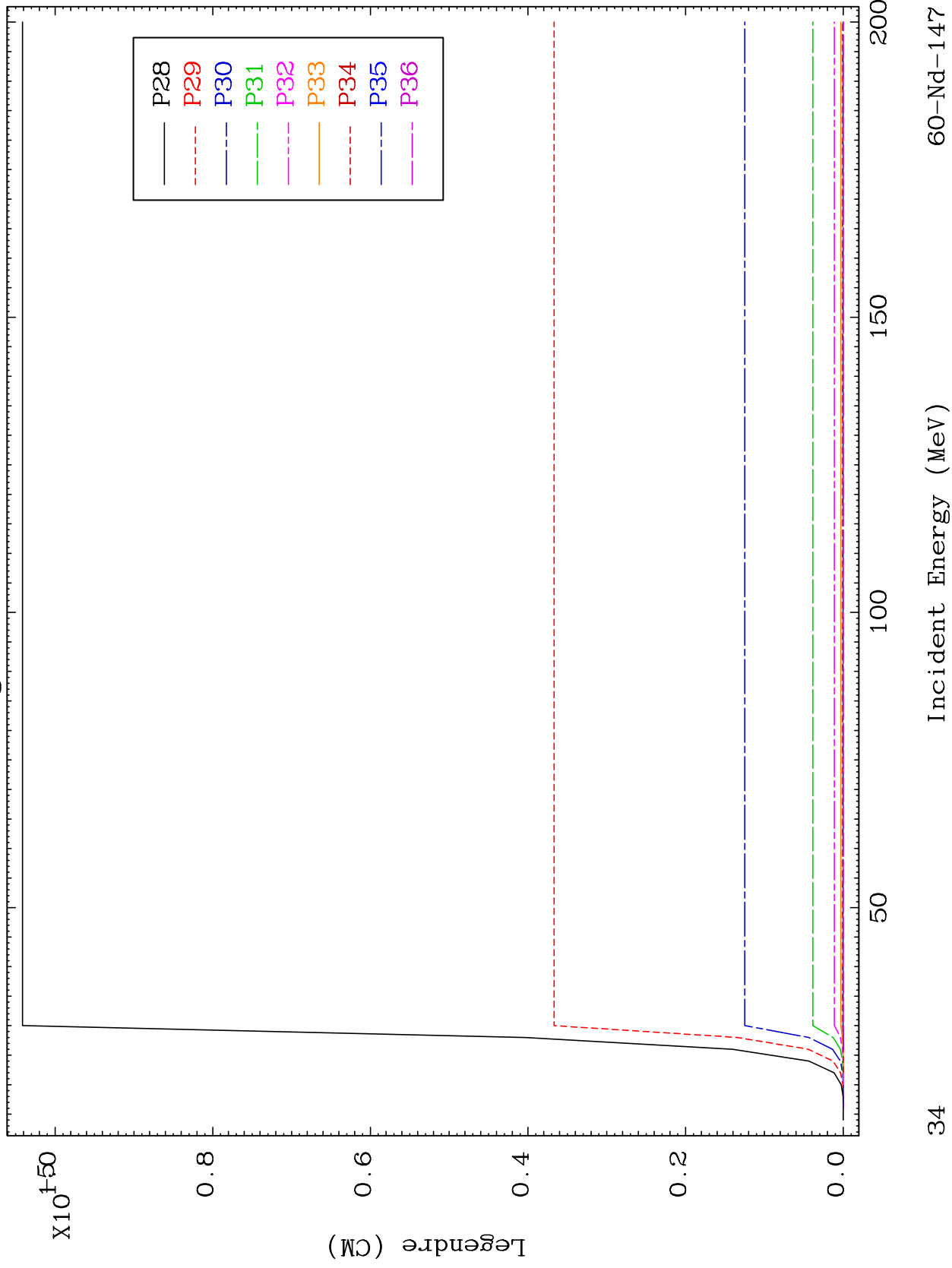
60-Nd-147

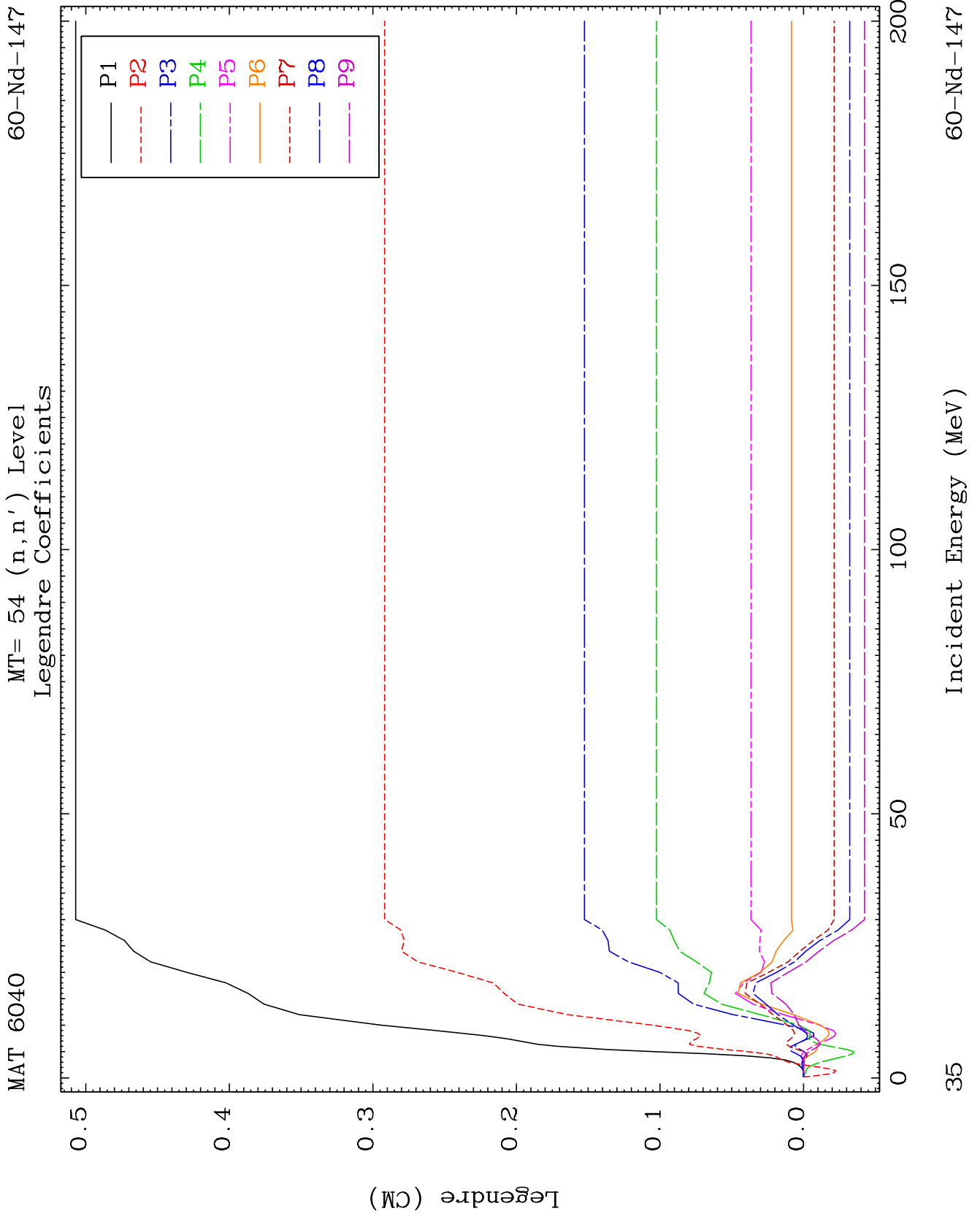


MAT 6040

MT= 53 (n,n') Level  
Legendre Coefficients

60-Nd-147



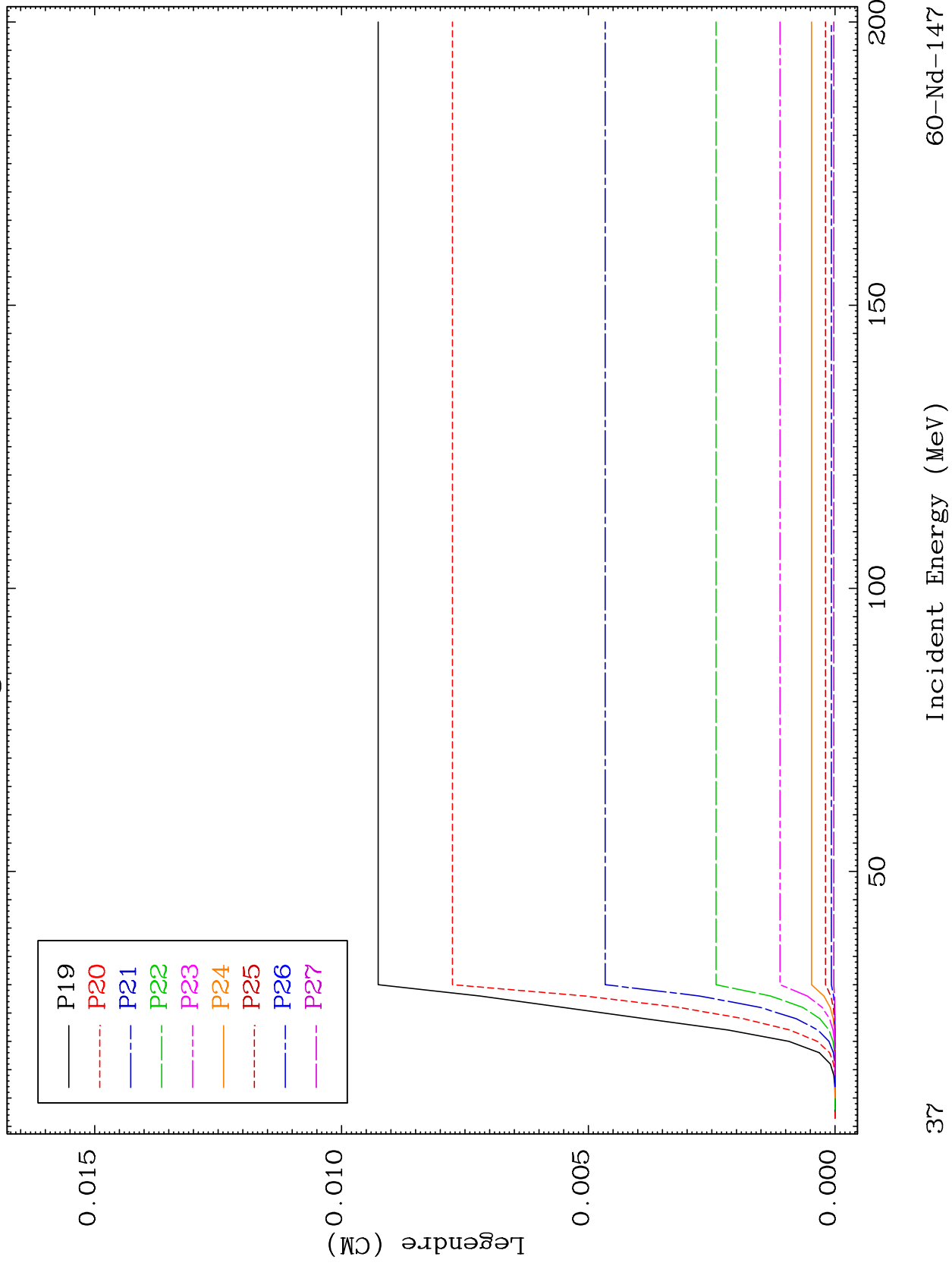




MAT 6040

MT= 54 (n,n') Level  
Legendre Coefficients

60-Nd-147



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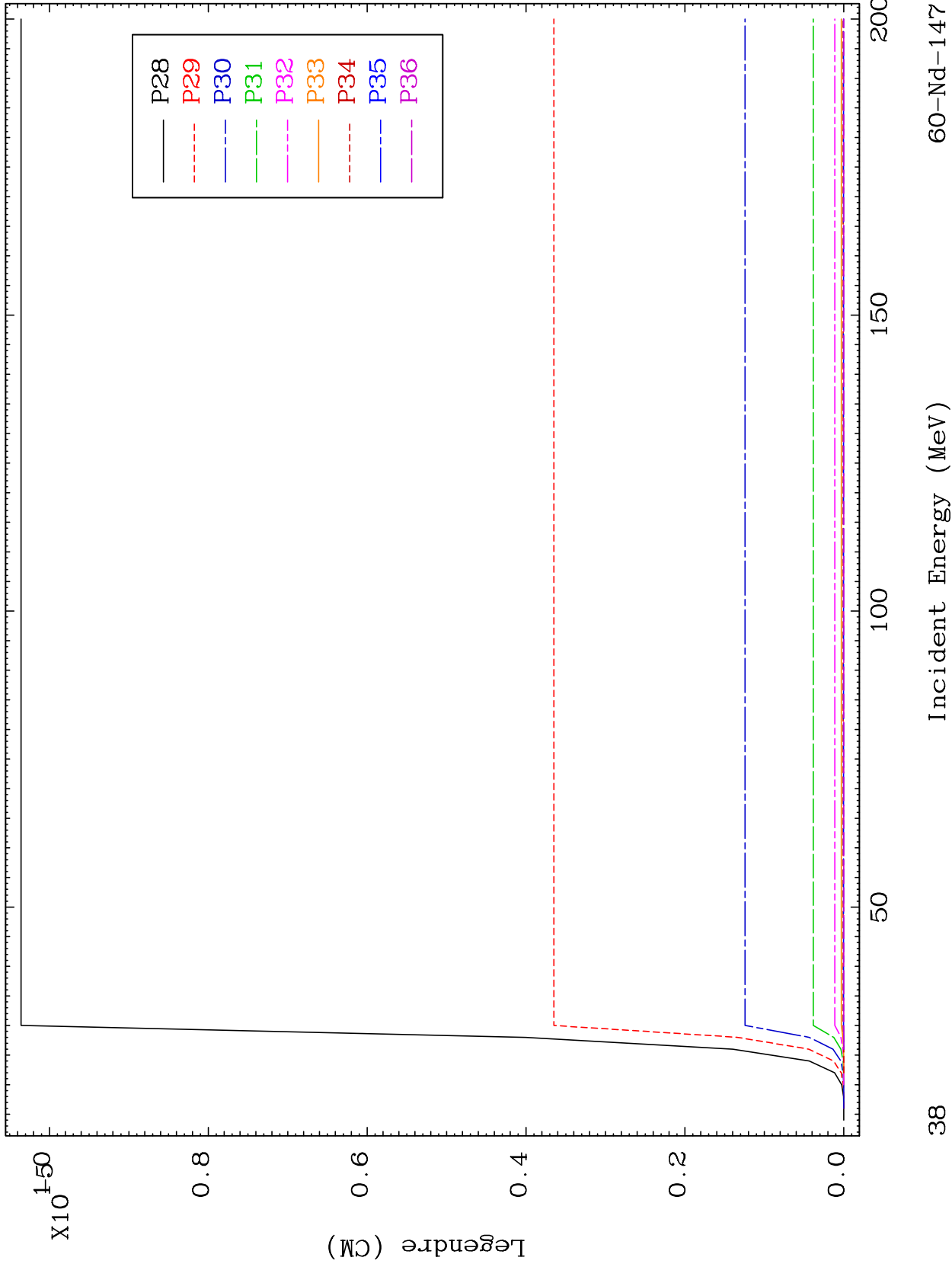
Incident Energy (MeV)

60-Nd-147

MAT 6040

MT= 54 (n,n') Level  
Legendre Coefficients

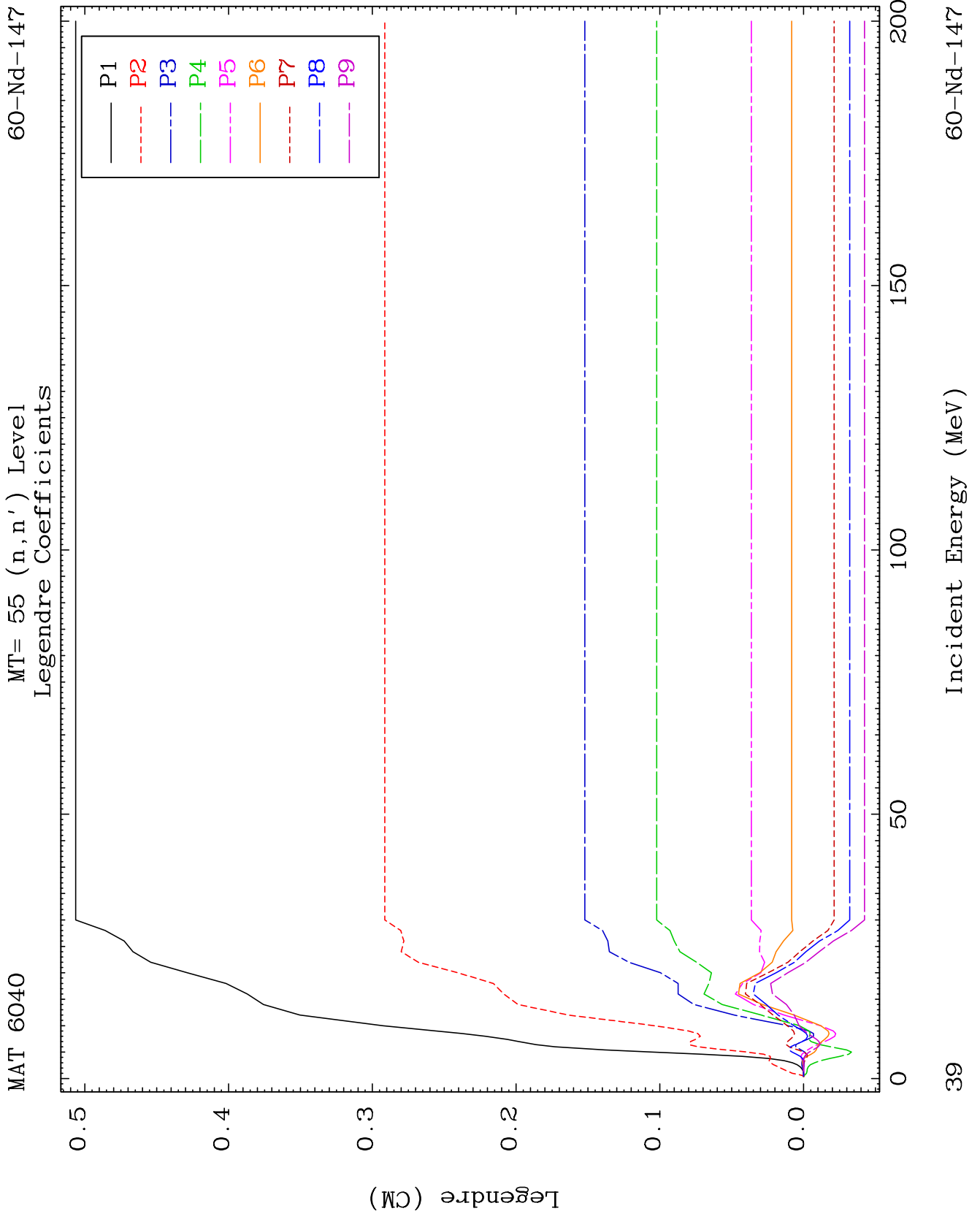
60-Nd-147



38

Incident Energy (MeV)

60-Nd-147



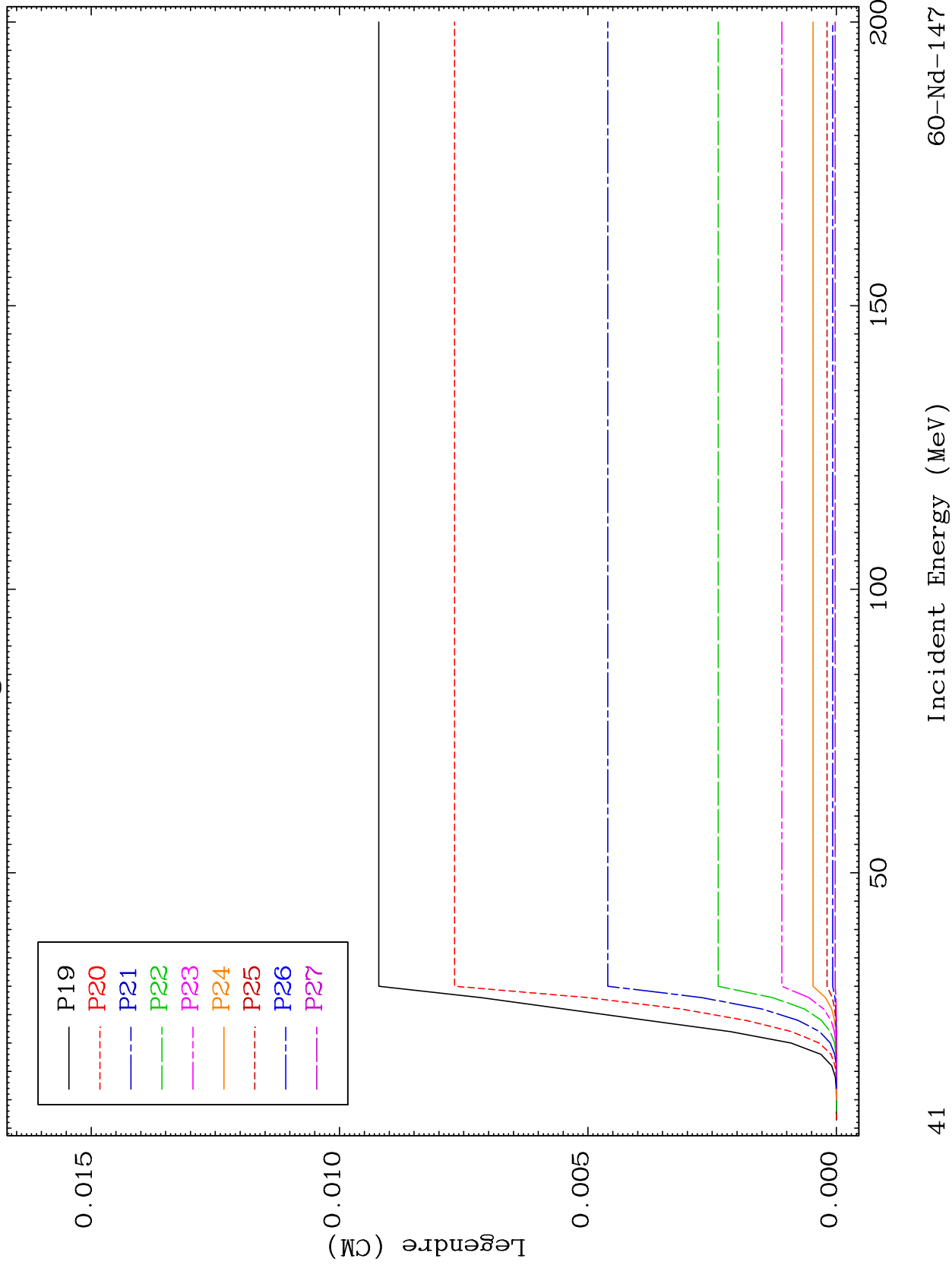




MAT 6040

MT= 55 (n,n') Level  
Legendre Coefficients

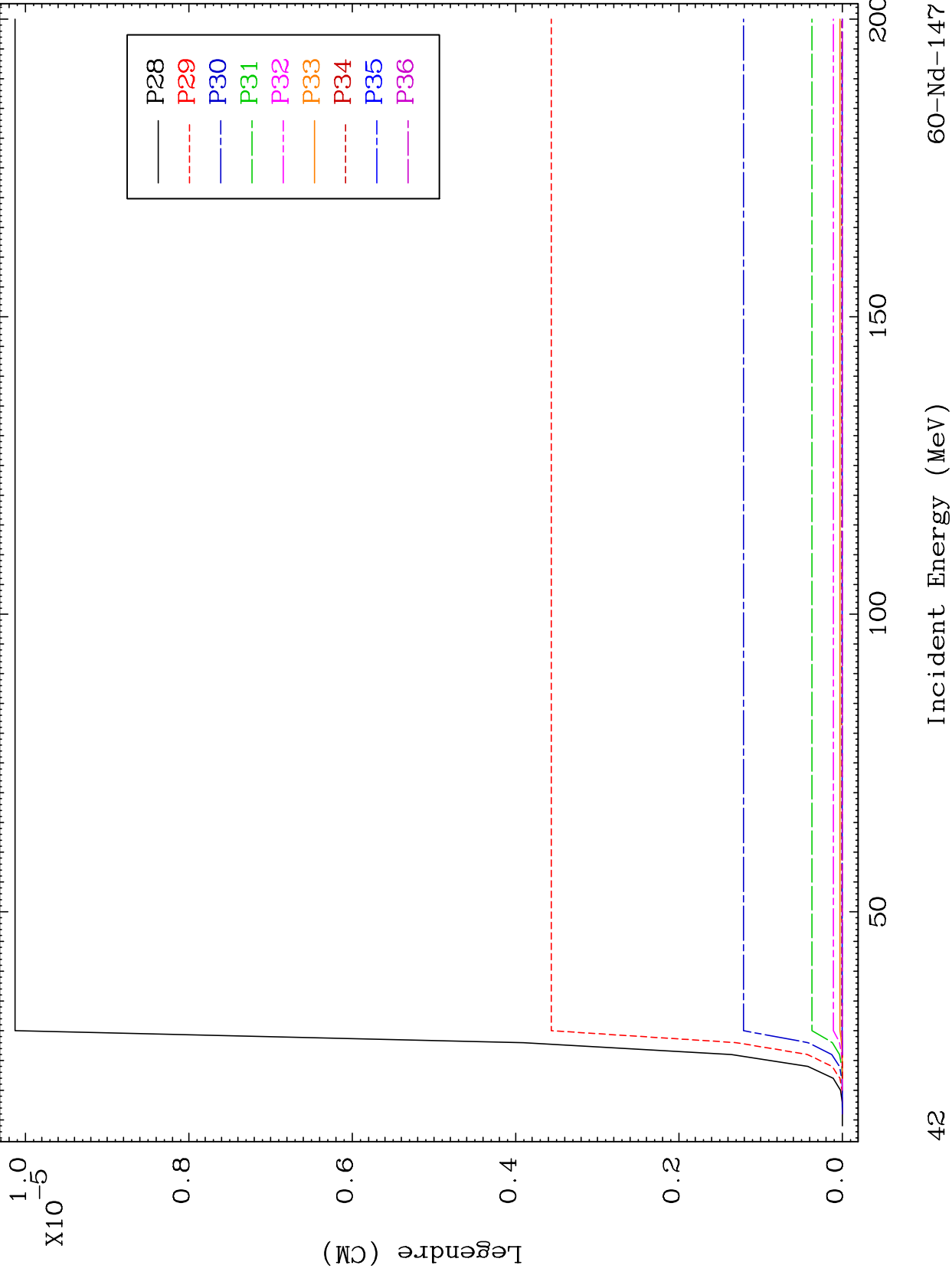
60-Nd-147

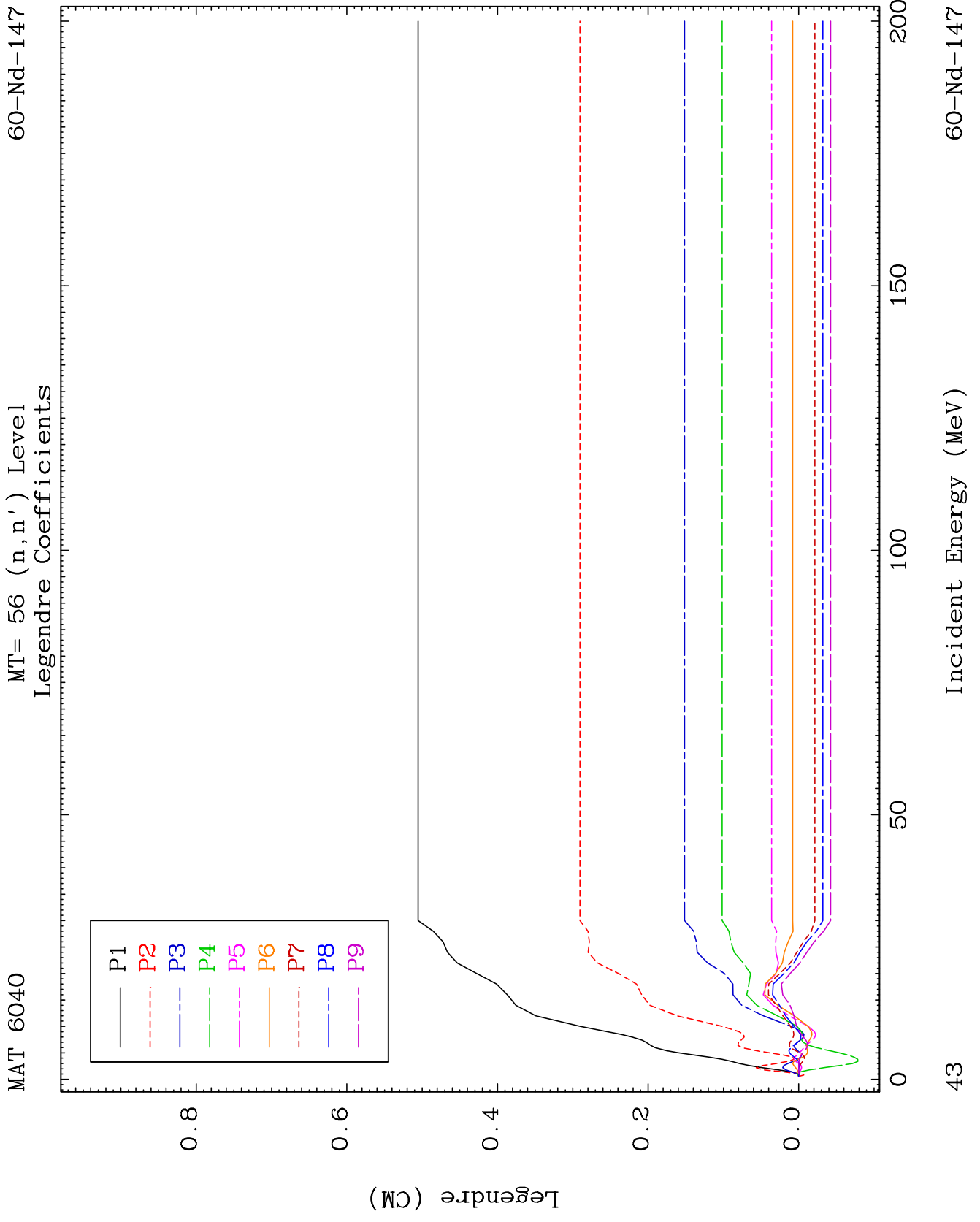


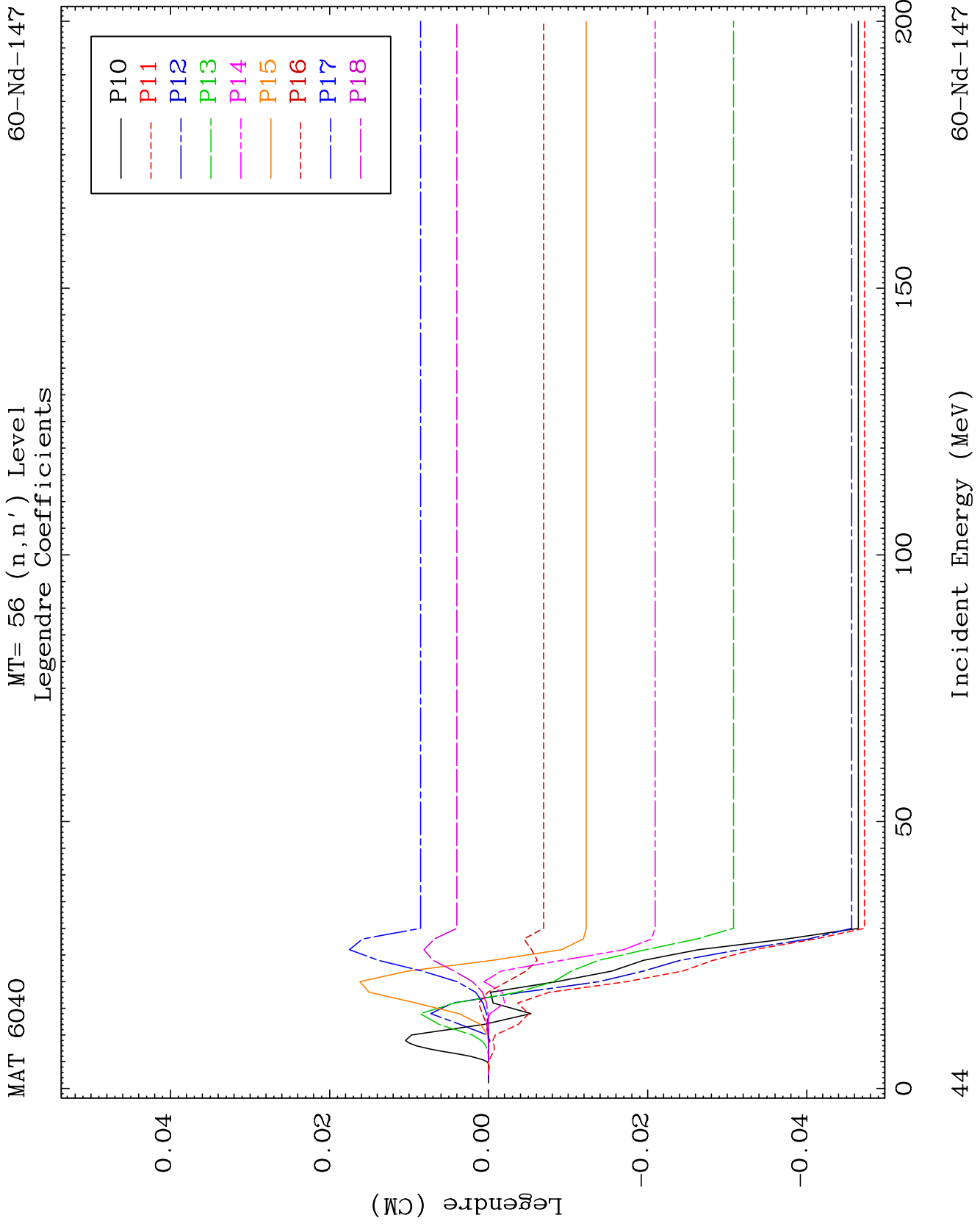
MAT 6040

MT= 55 (n,n') Level  
Legendre Coefficients

60-Nd-147



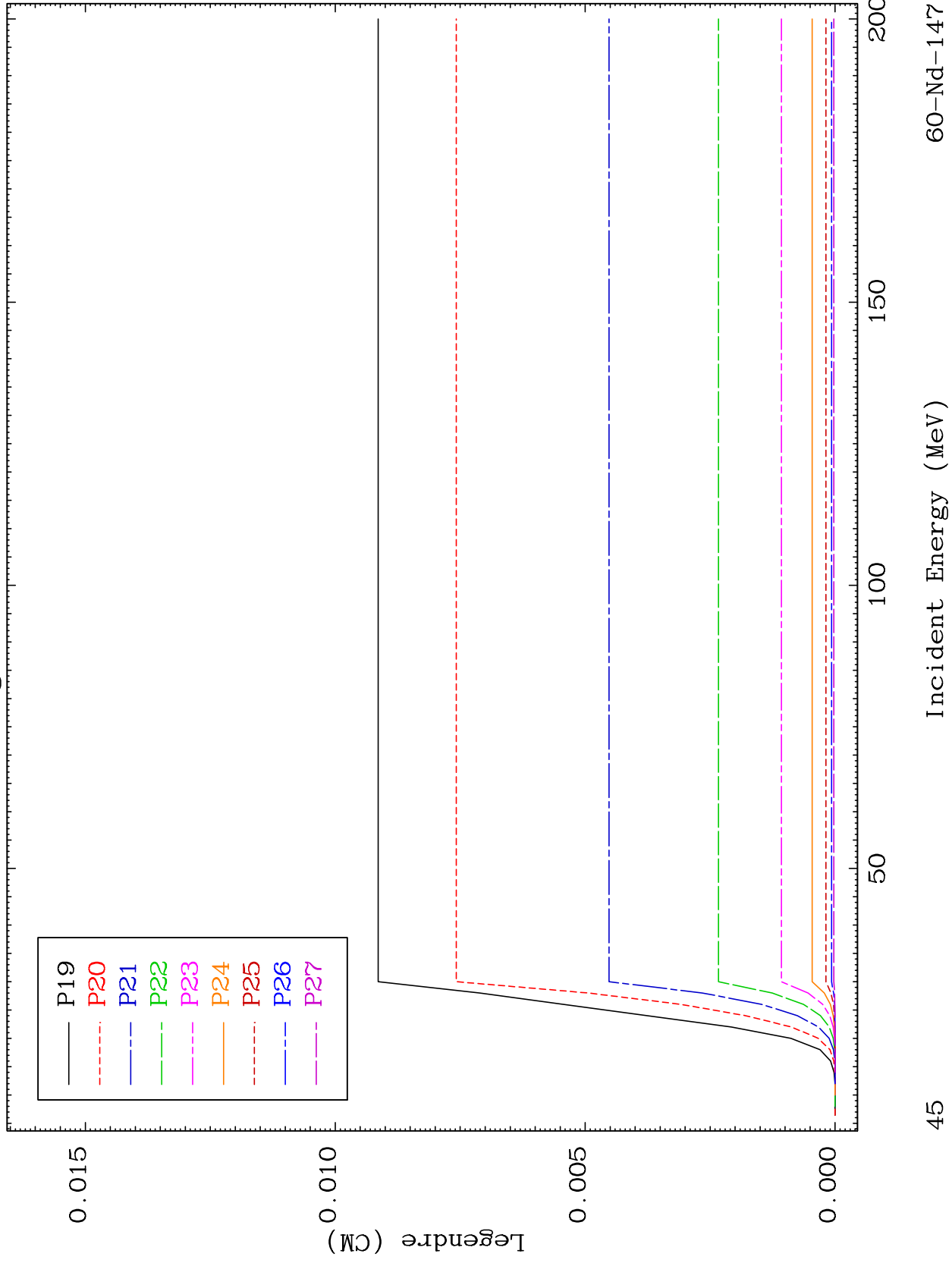




MAT 6040

MT= 56 (n,n') Level  
Legendre Coefficients

60-Nd-147



45

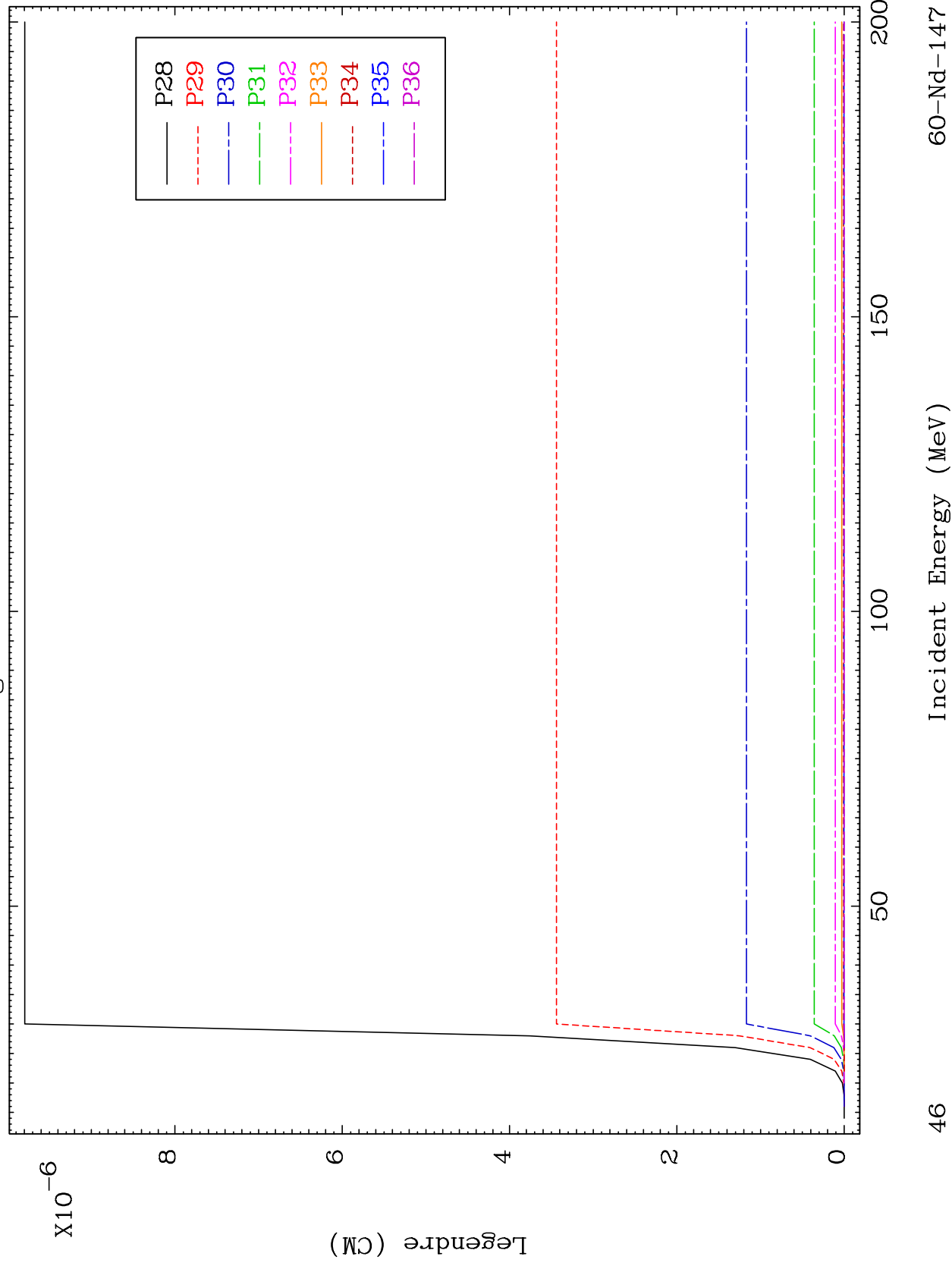
Incident Energy (MeV)

60-Nd-147

MAT 6040

MT= 56 (n,n') Level  
Legendre Coefficients

60-Nd-147



46

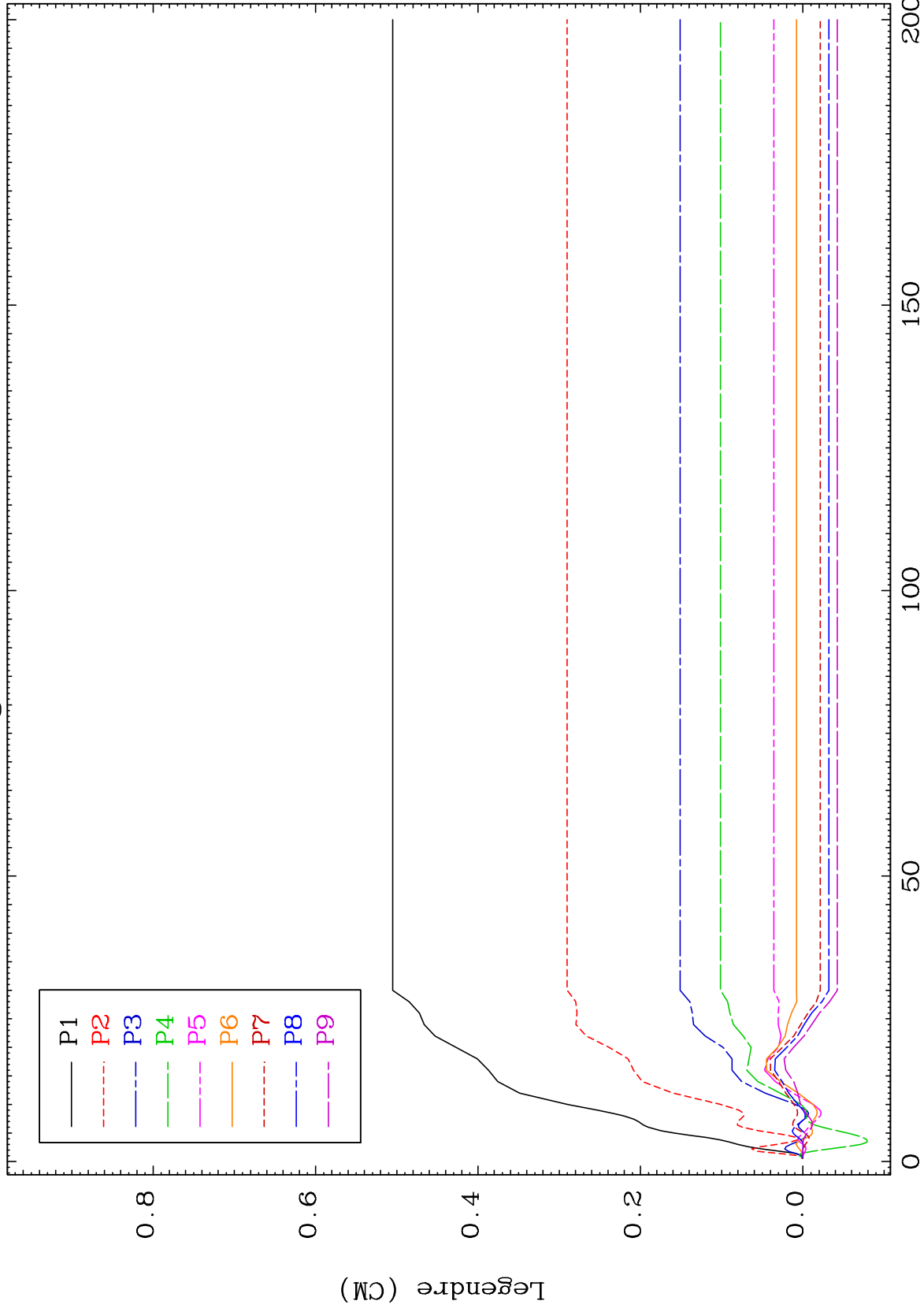
Incident Energy (MeV)

60-Nd-147

MAT 6040

MT= 57 (n,n') Level  
Legendre Coefficients

60-Nd-147

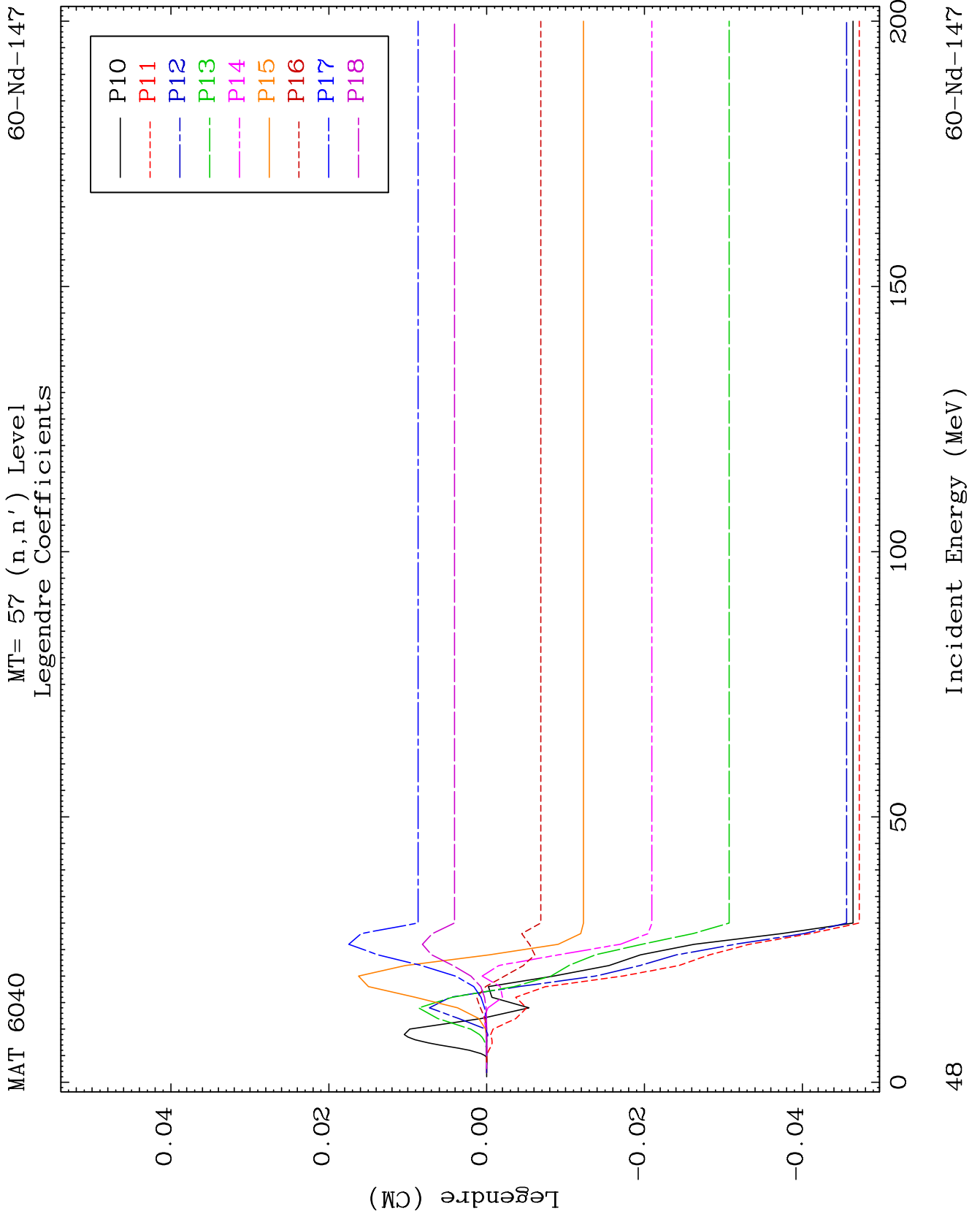


47

Incident Energy (MeV)

60-Nd-147

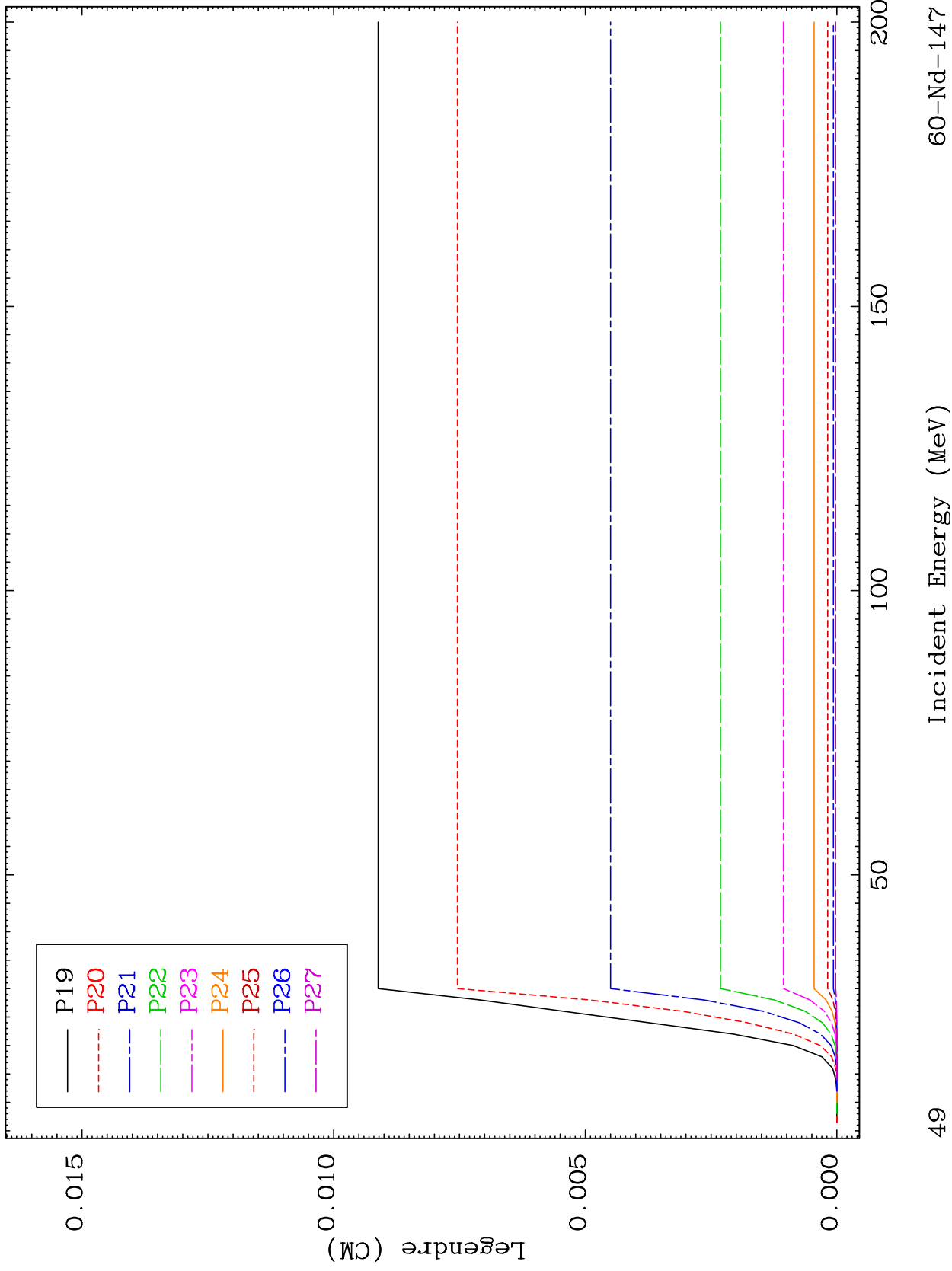




MAT 6040

MT= 57 (n,n') Level  
Legendre Coefficients

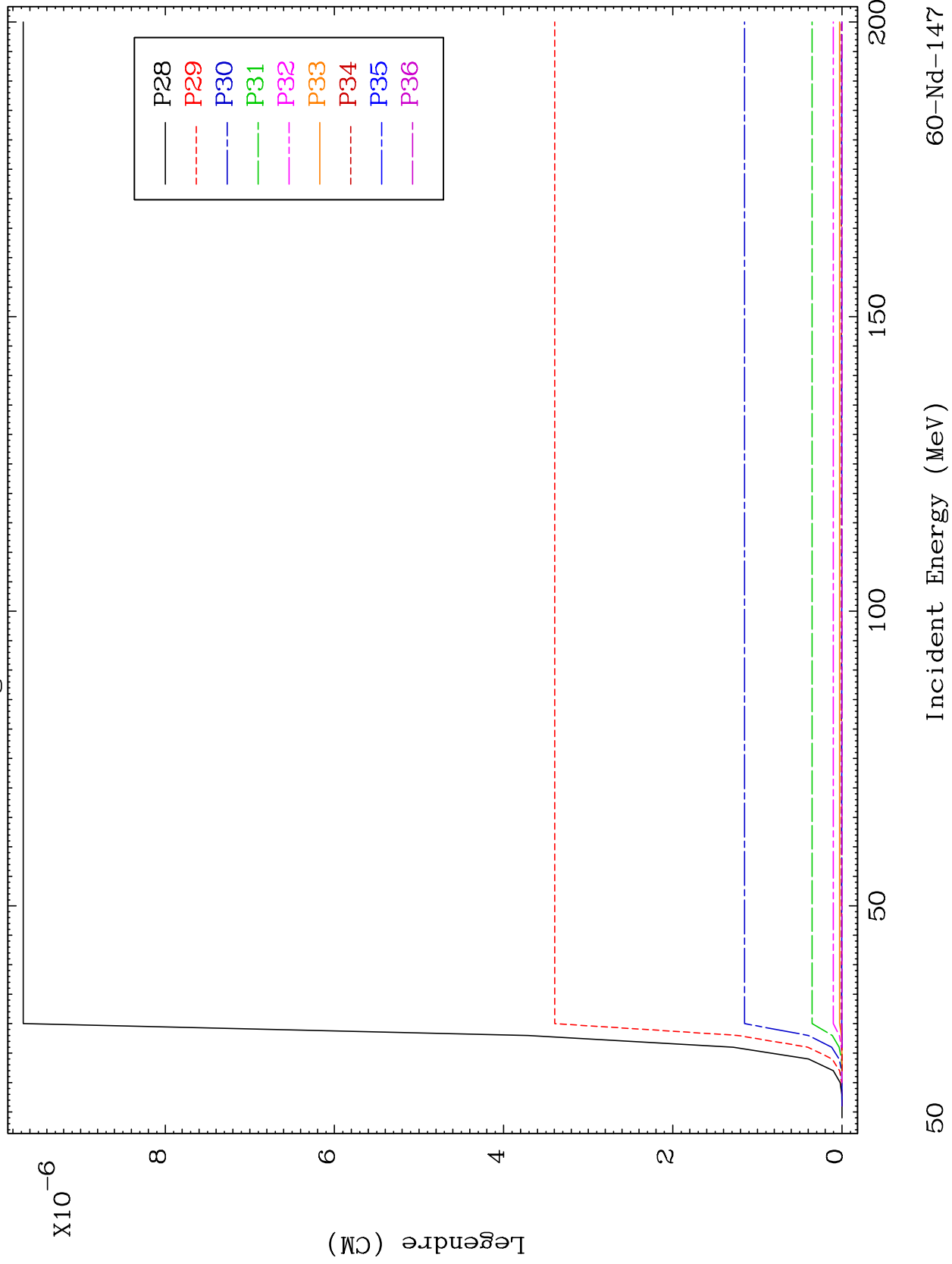
60-Nd-147



MAT 6040

MT= 57 (n,n') Level  
Legendre Coefficients

60-Nd-147

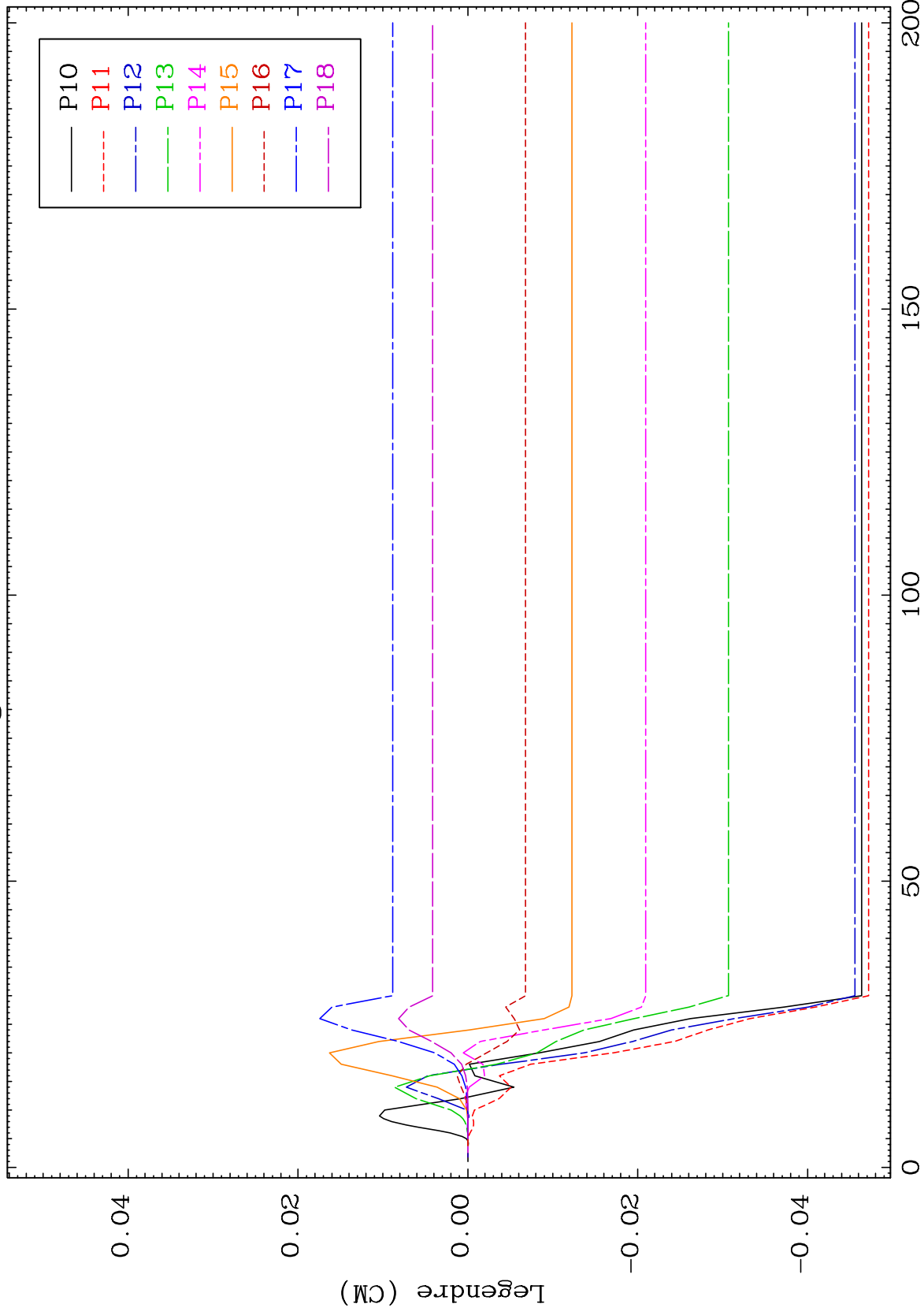




MAT 6040

MT= 58 (n,n') Level  
Legendre Coefficients

60-Nd-147



52

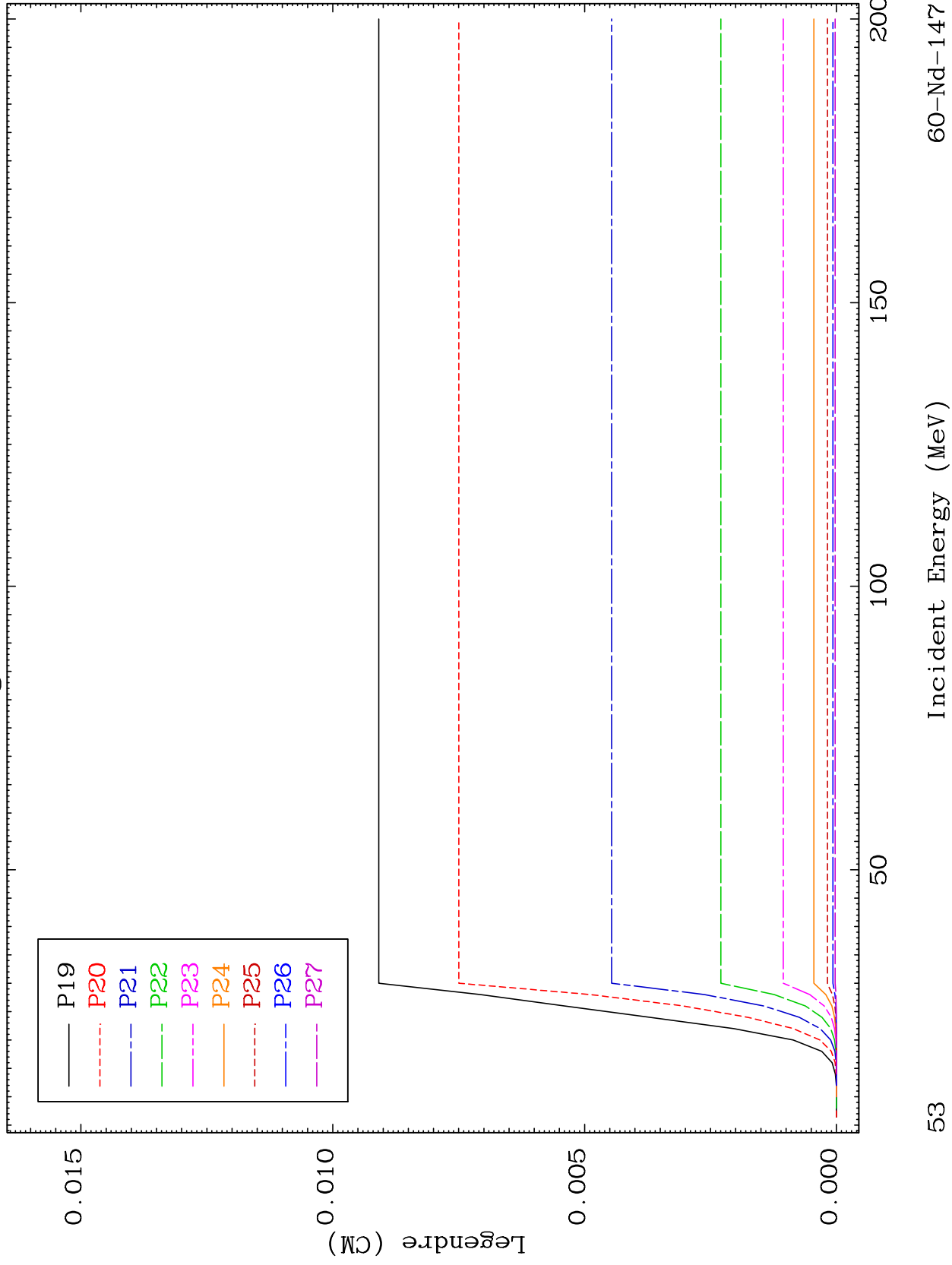
Incident Energy (MeV)

60-Nd-147

MAT 6040

MT= 58 (n,n') Level  
Legendre Coefficients

60-Nd-147



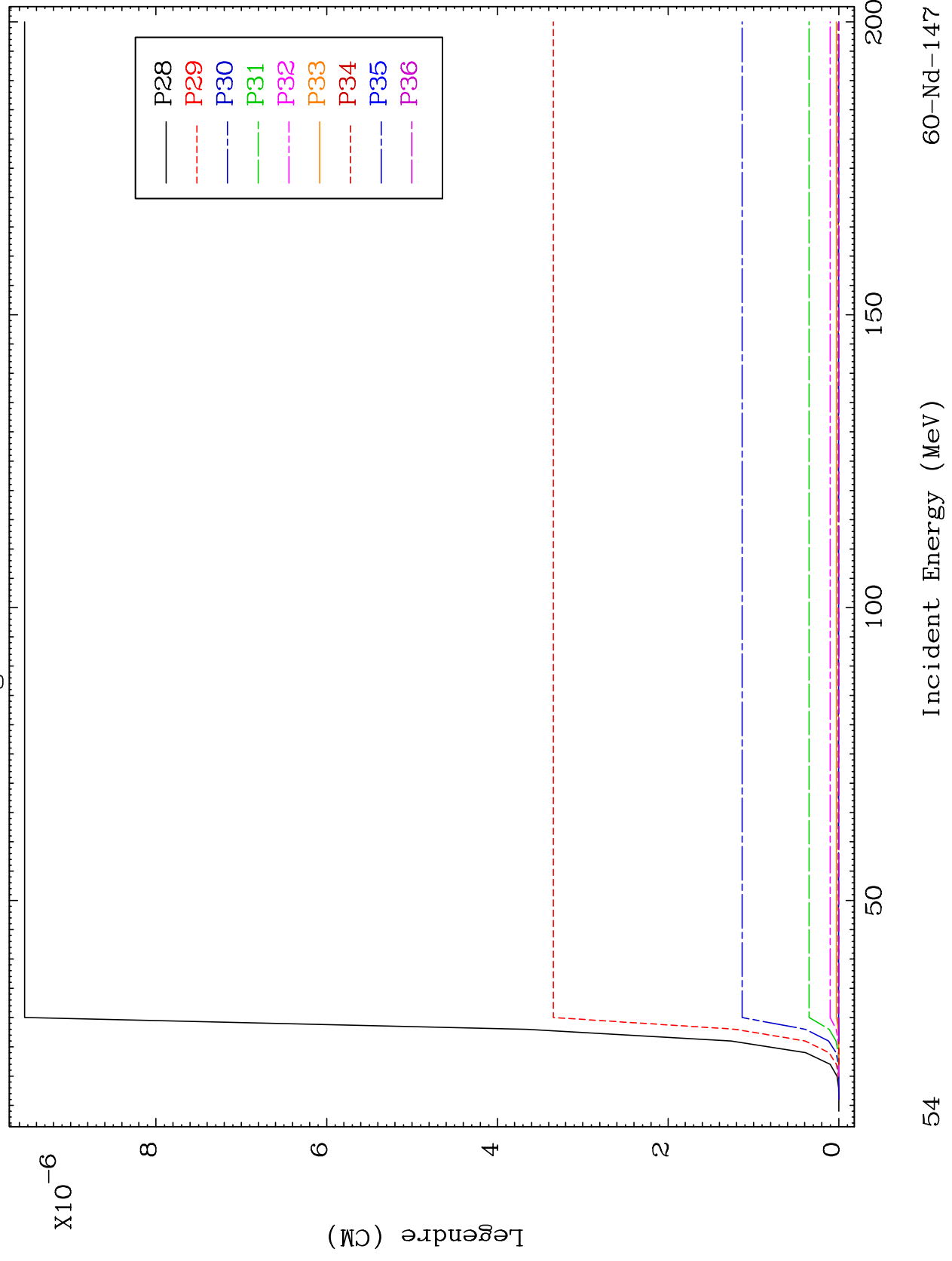
53

60-Nd-147

MAT 6040

MT= 58 (n,n') Level  
Legendre Coefficients

60-Nd-147



54

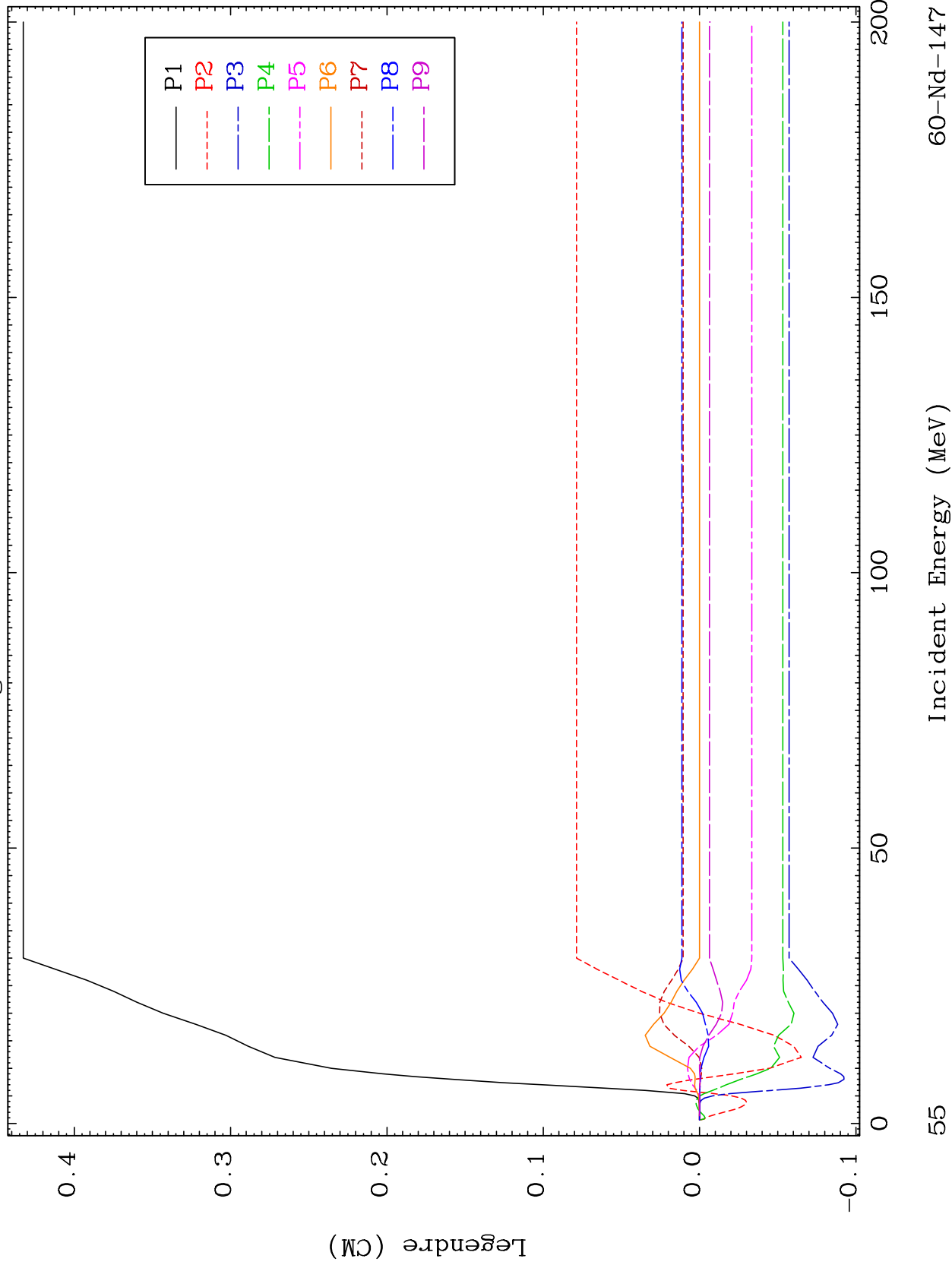
Incident Energy (MeV)

60-Nd-147

MAT 6040

MT= 59 (n,n') Level  
Legendre Coefficients

60-Nd-147



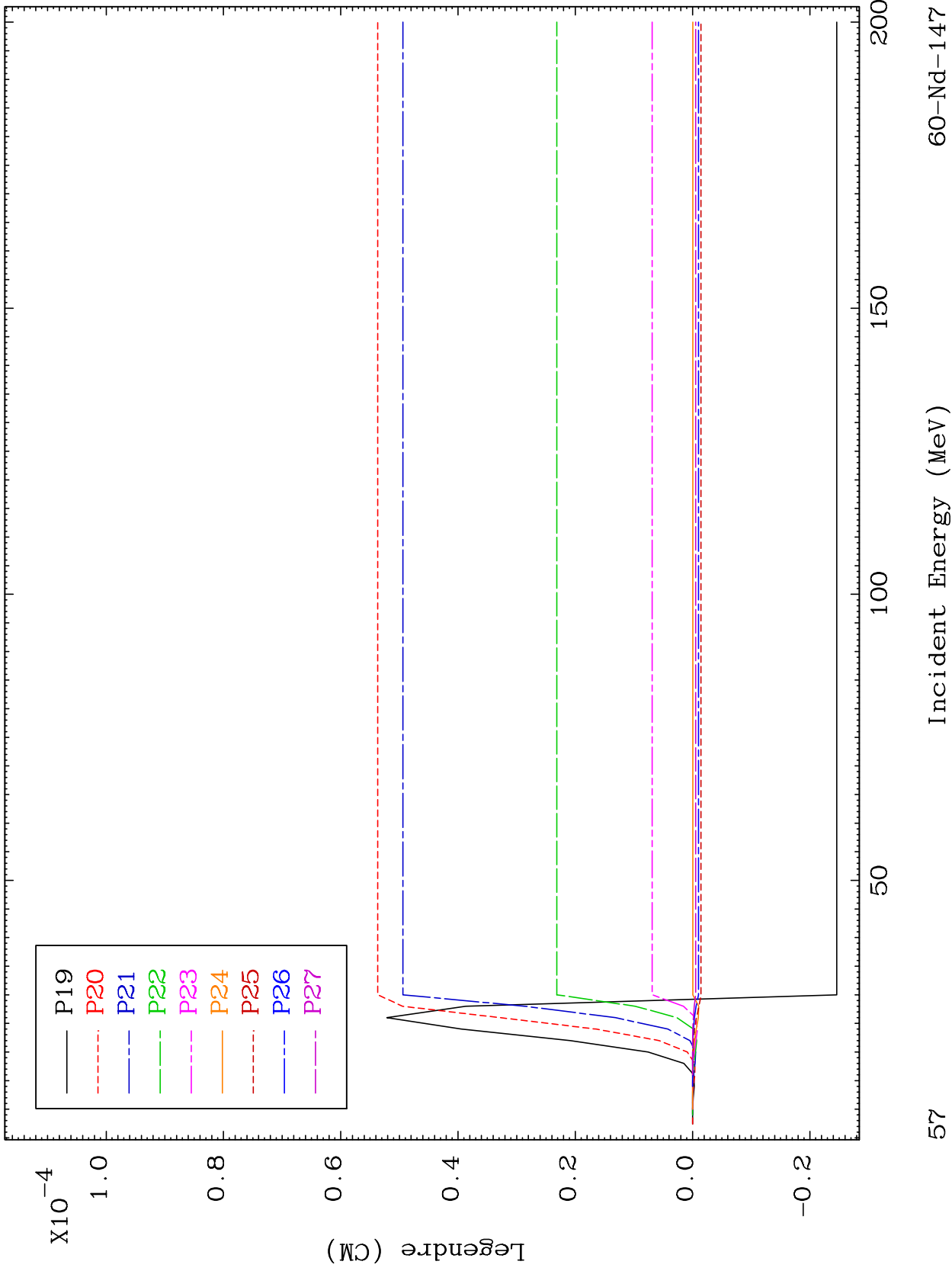
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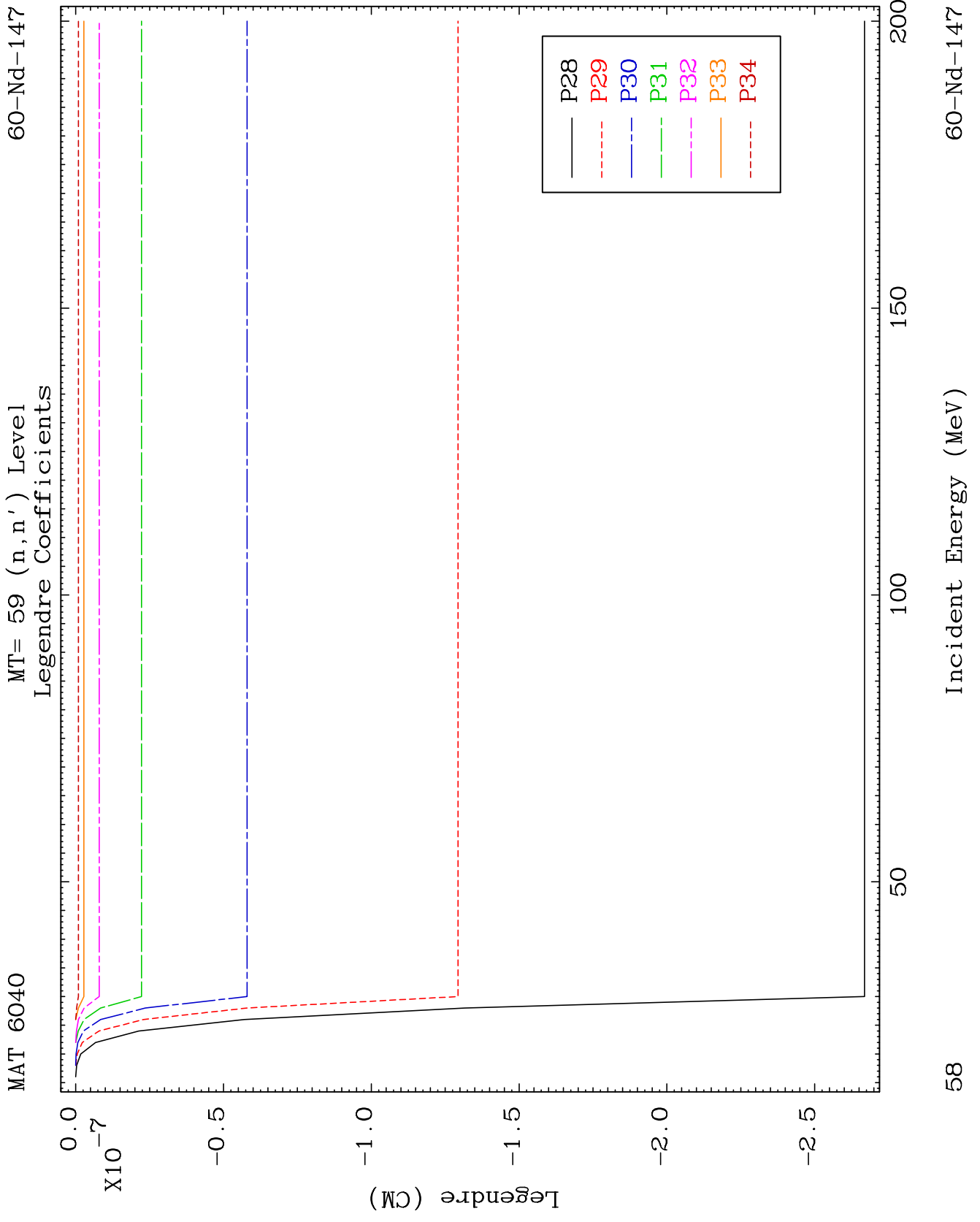
Incident Energy (MeV)

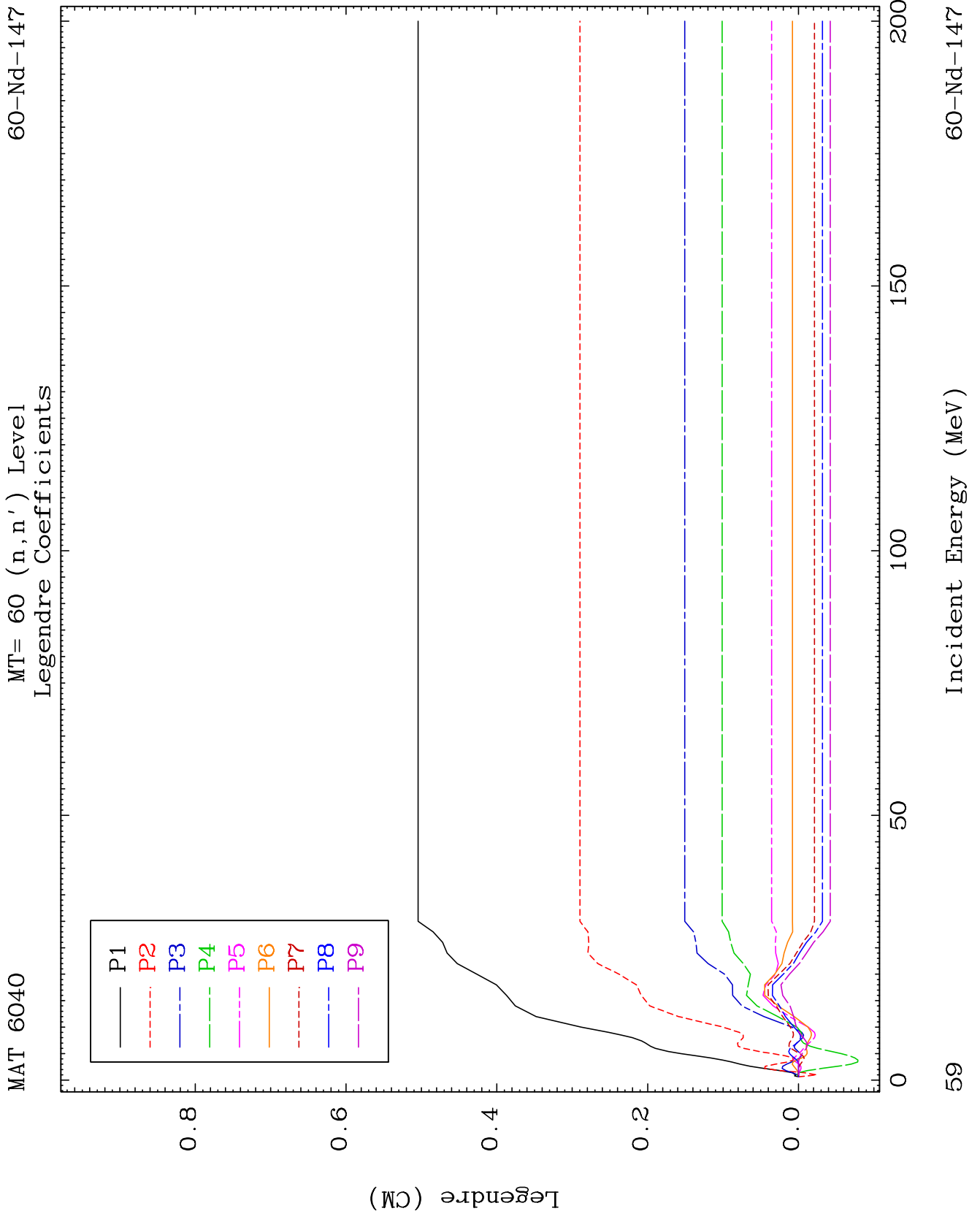
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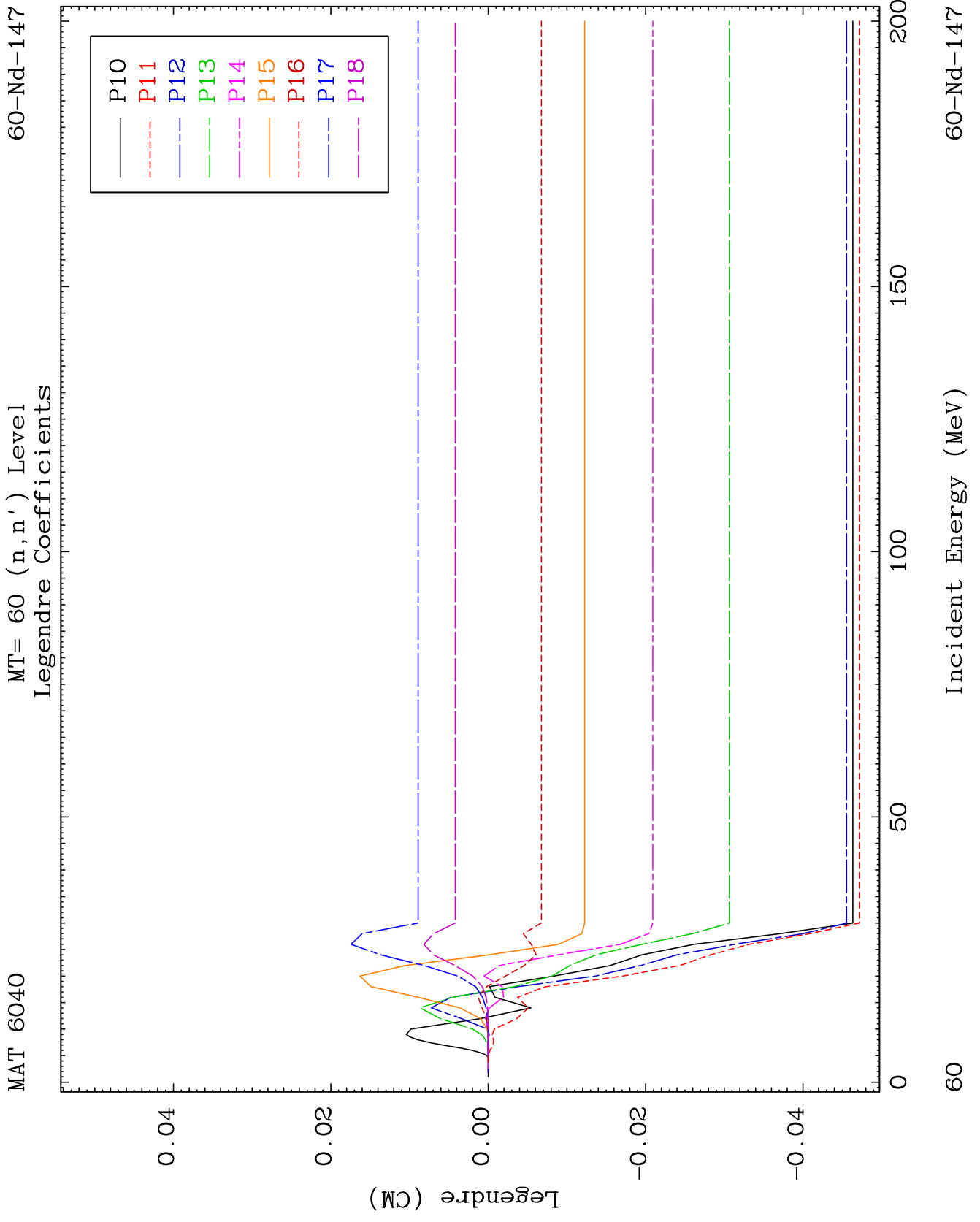








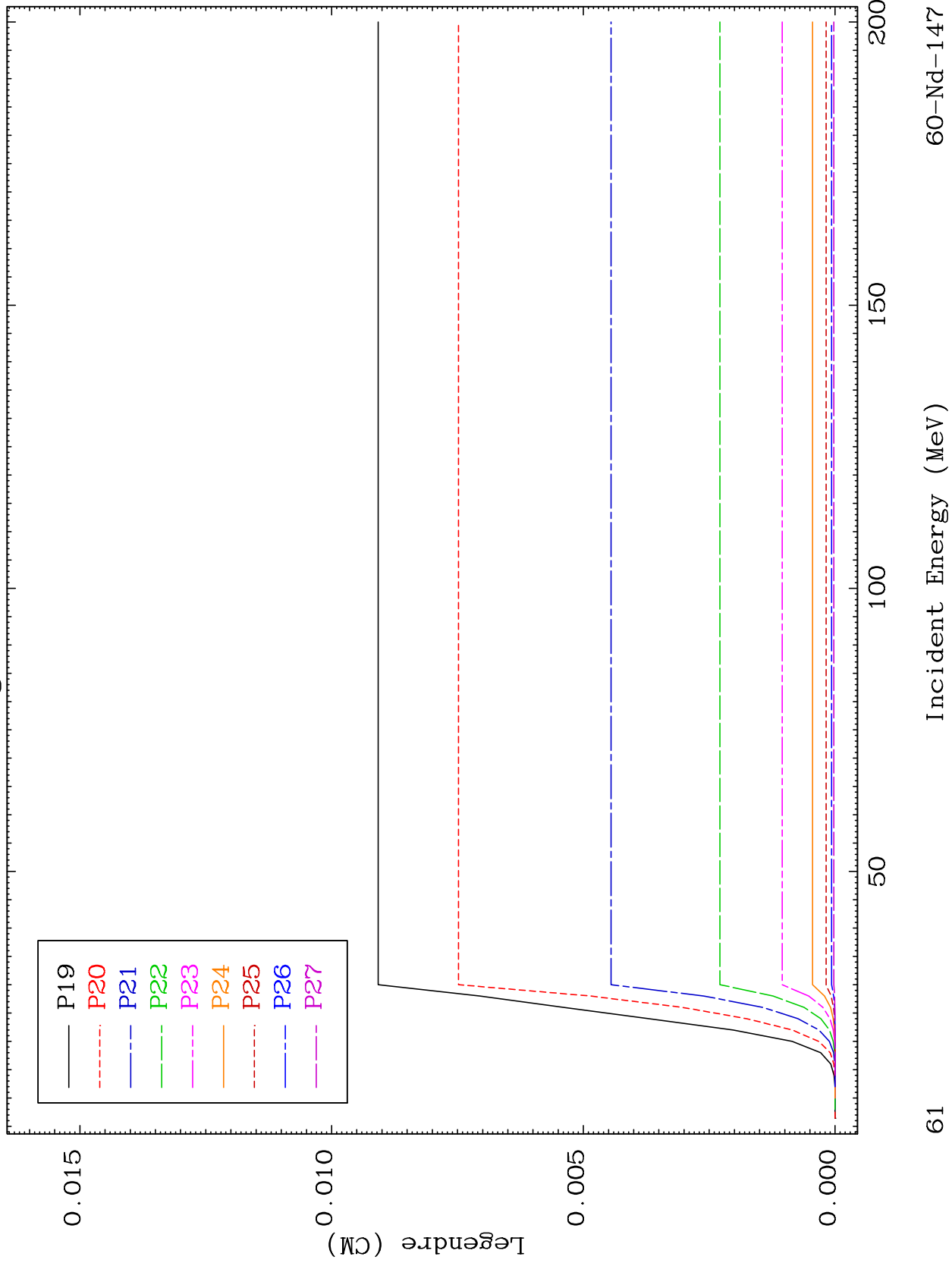




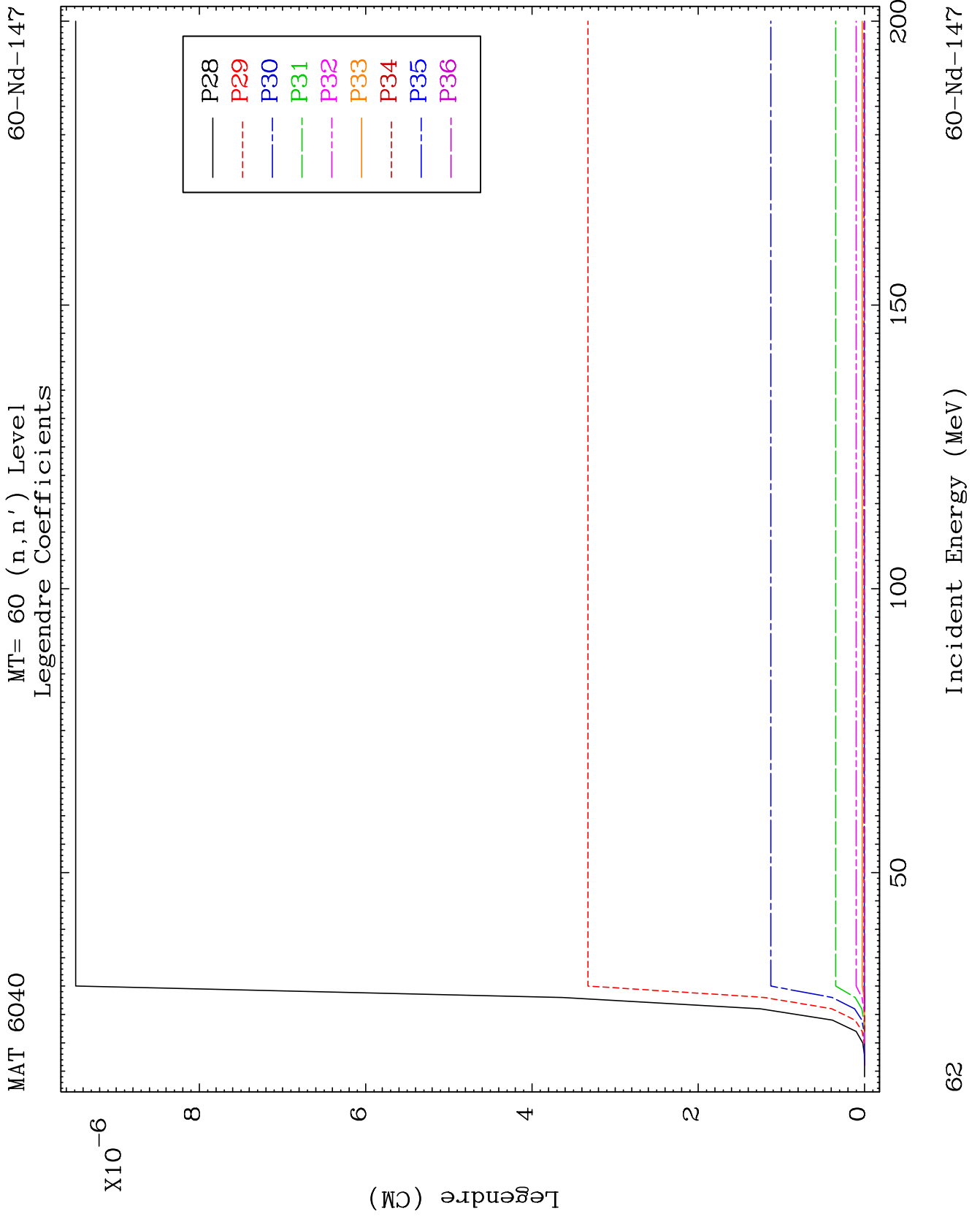
MAT 6040

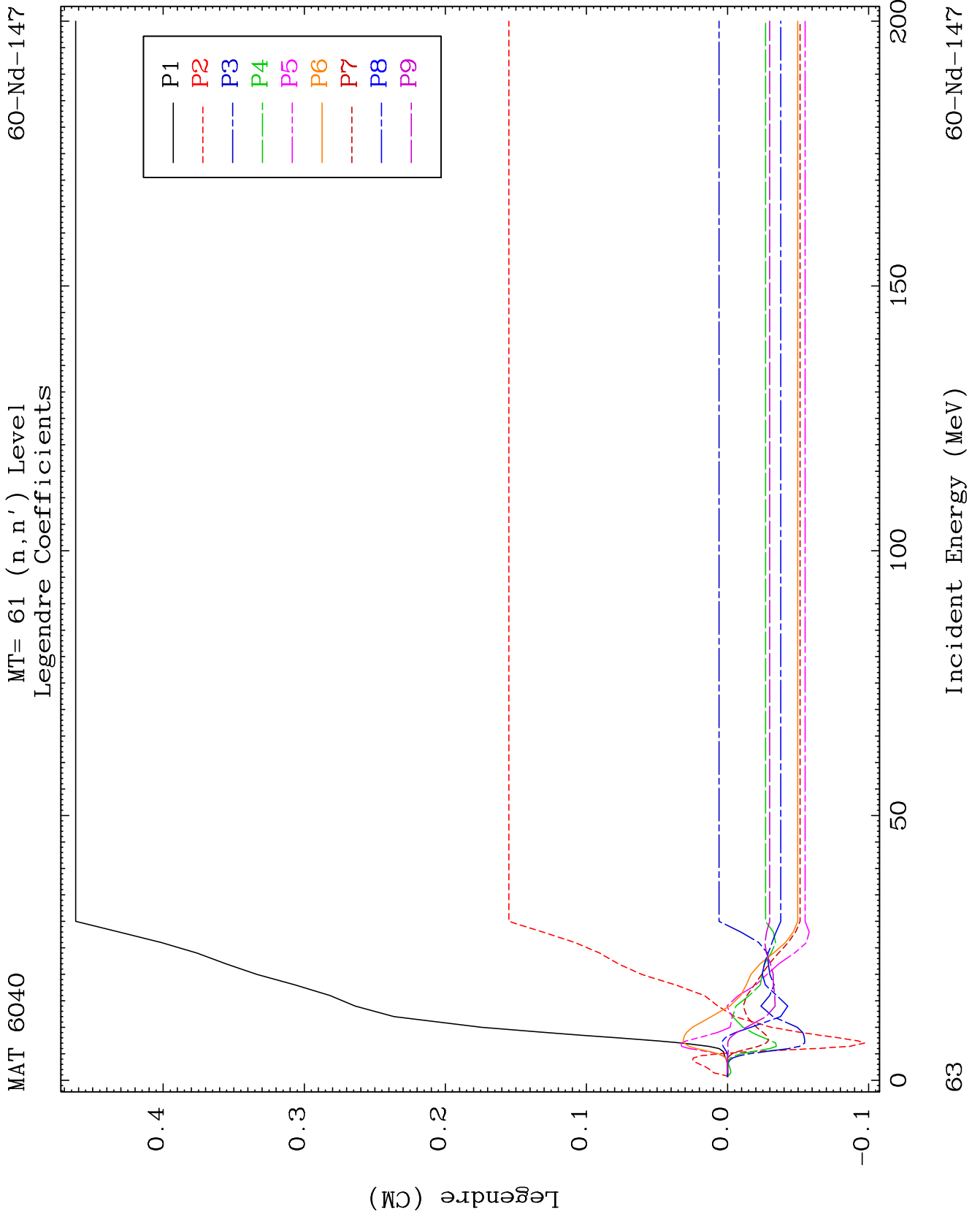
MT= 60 (n,n') Level  
Legendre Coefficients

60-Nd-147



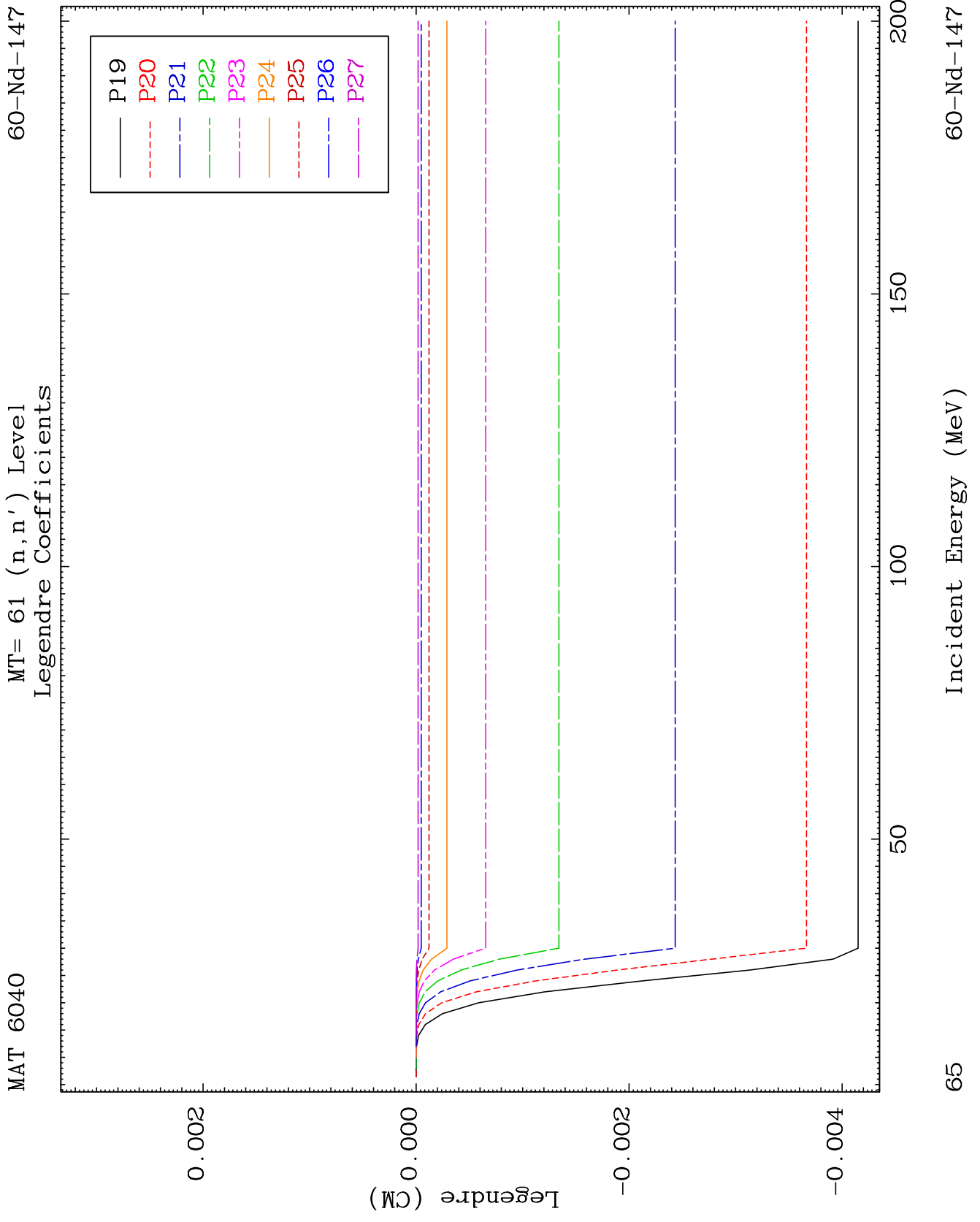
61



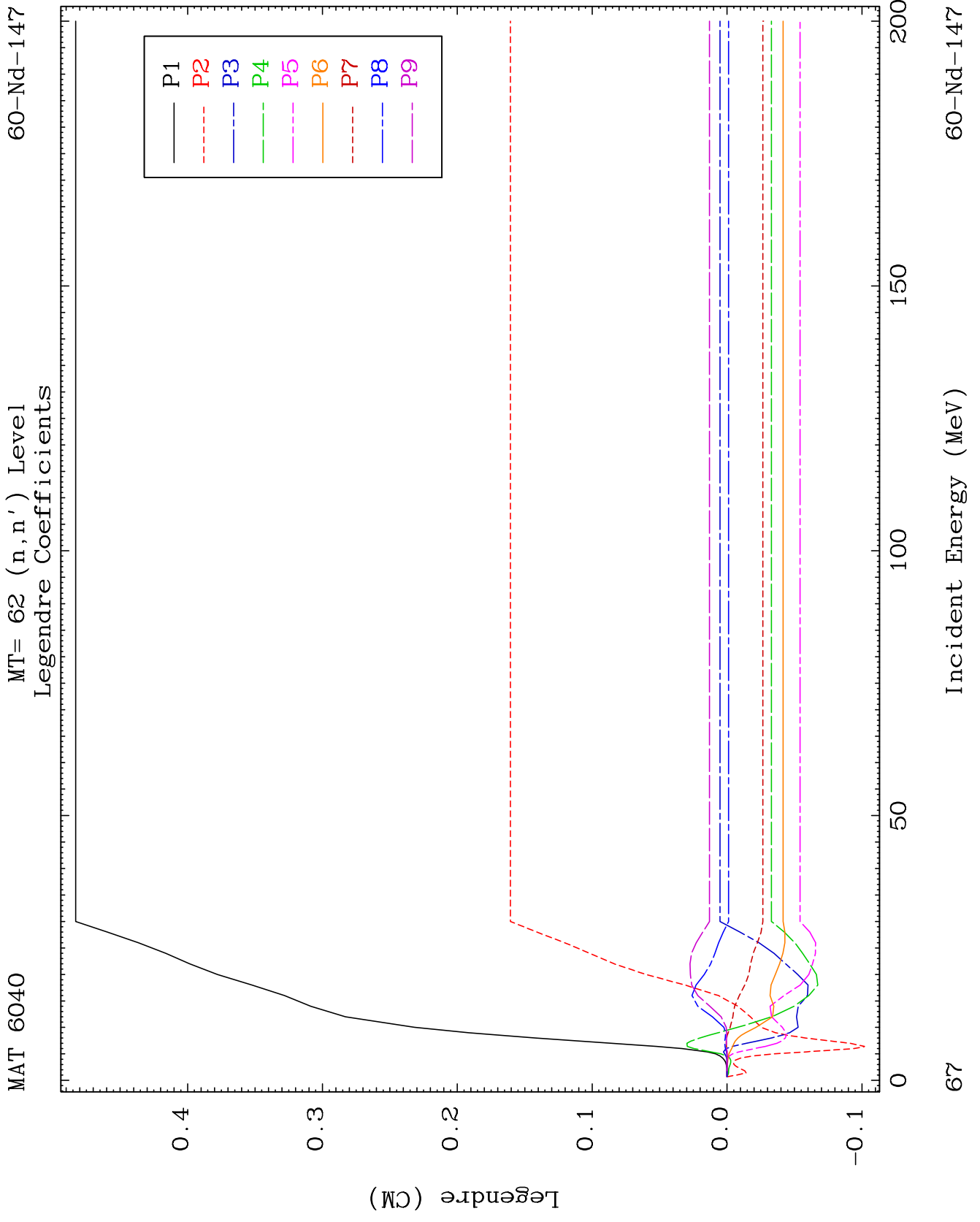










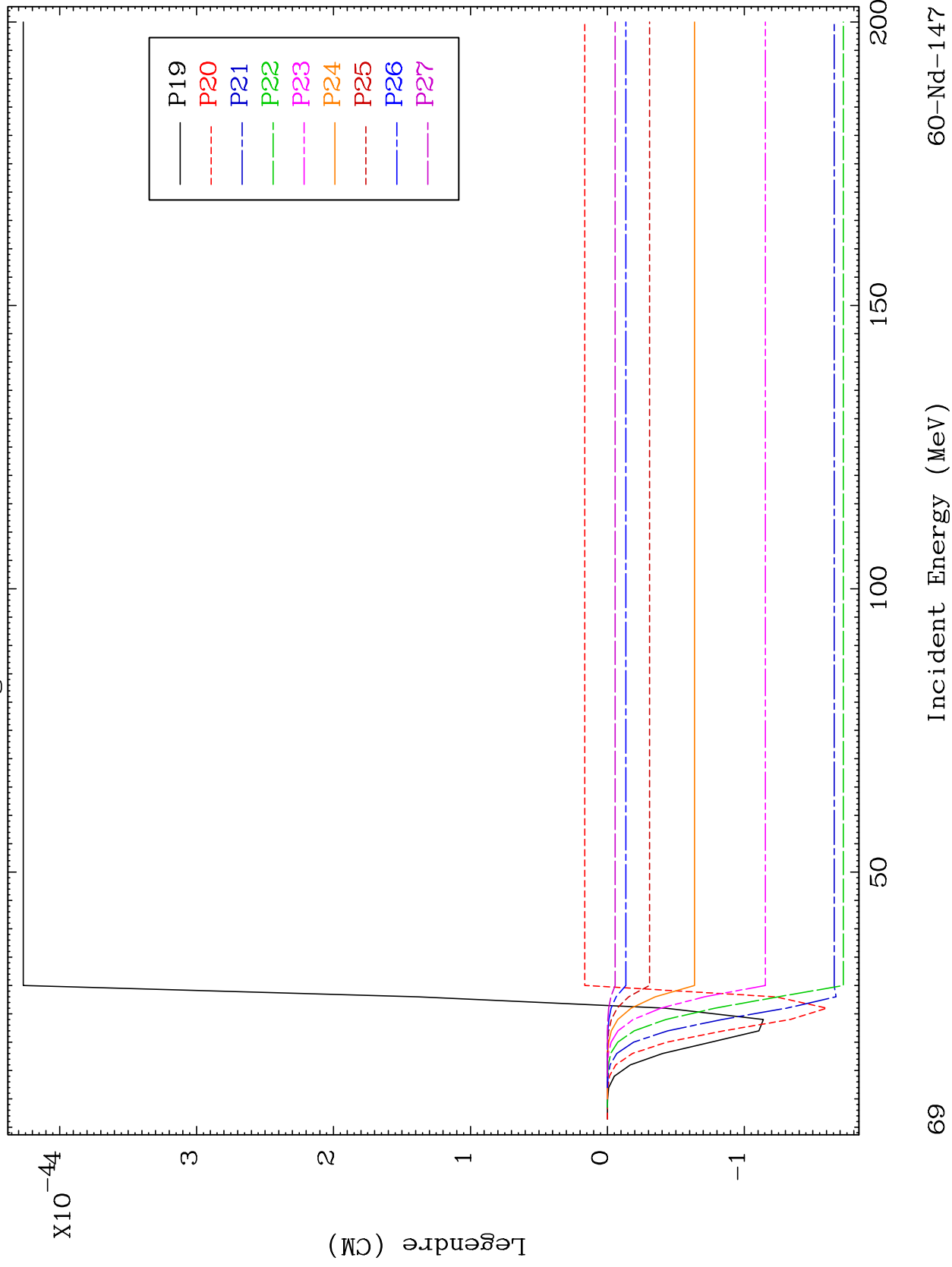




MAT 6040

MT= 62 (n,n') Level  
Legendre Coefficients

60-Nd-147

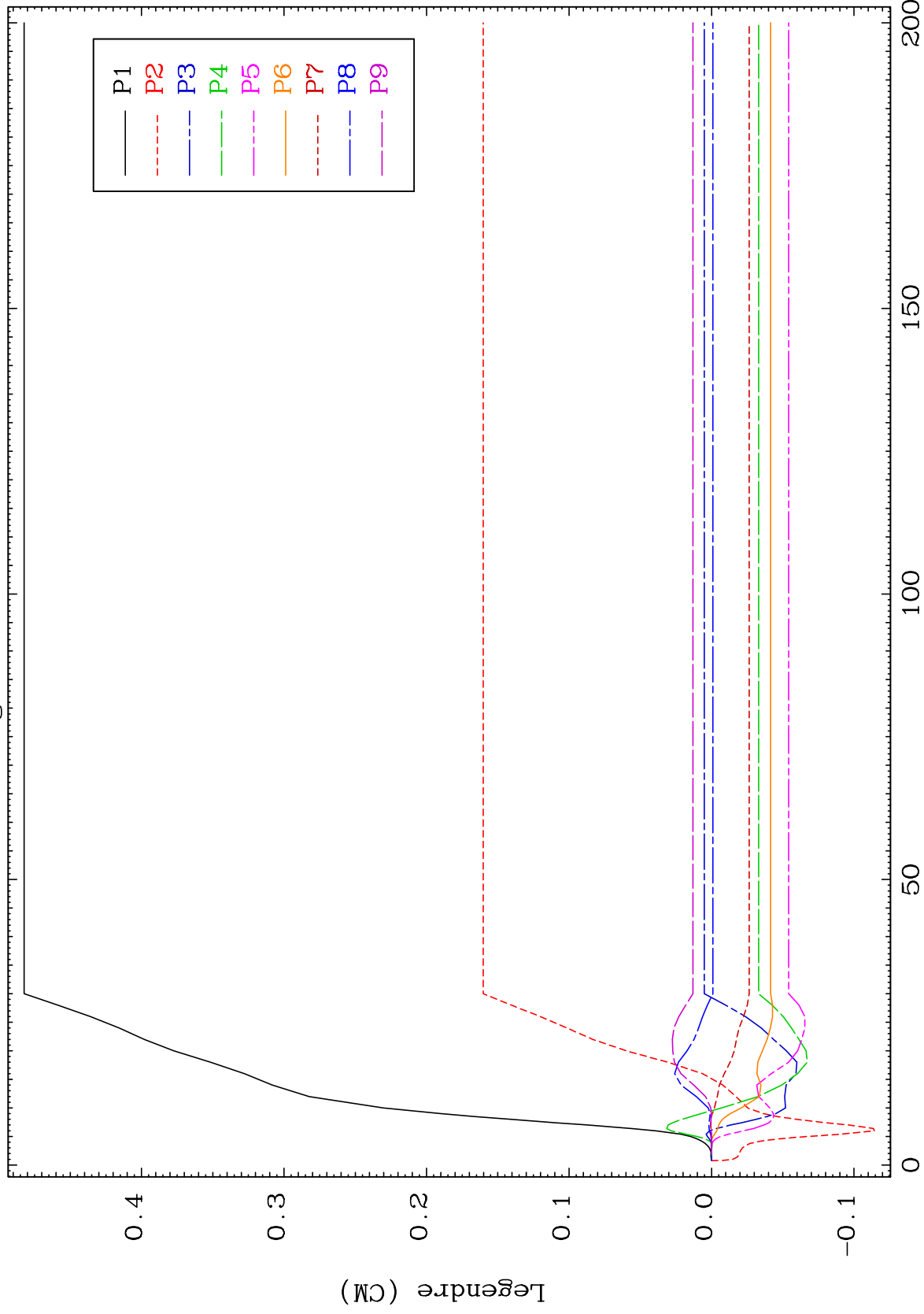




MAT 6040

MT= 63 (n,n') Level  
Legendre Coefficients

60-Nd-147

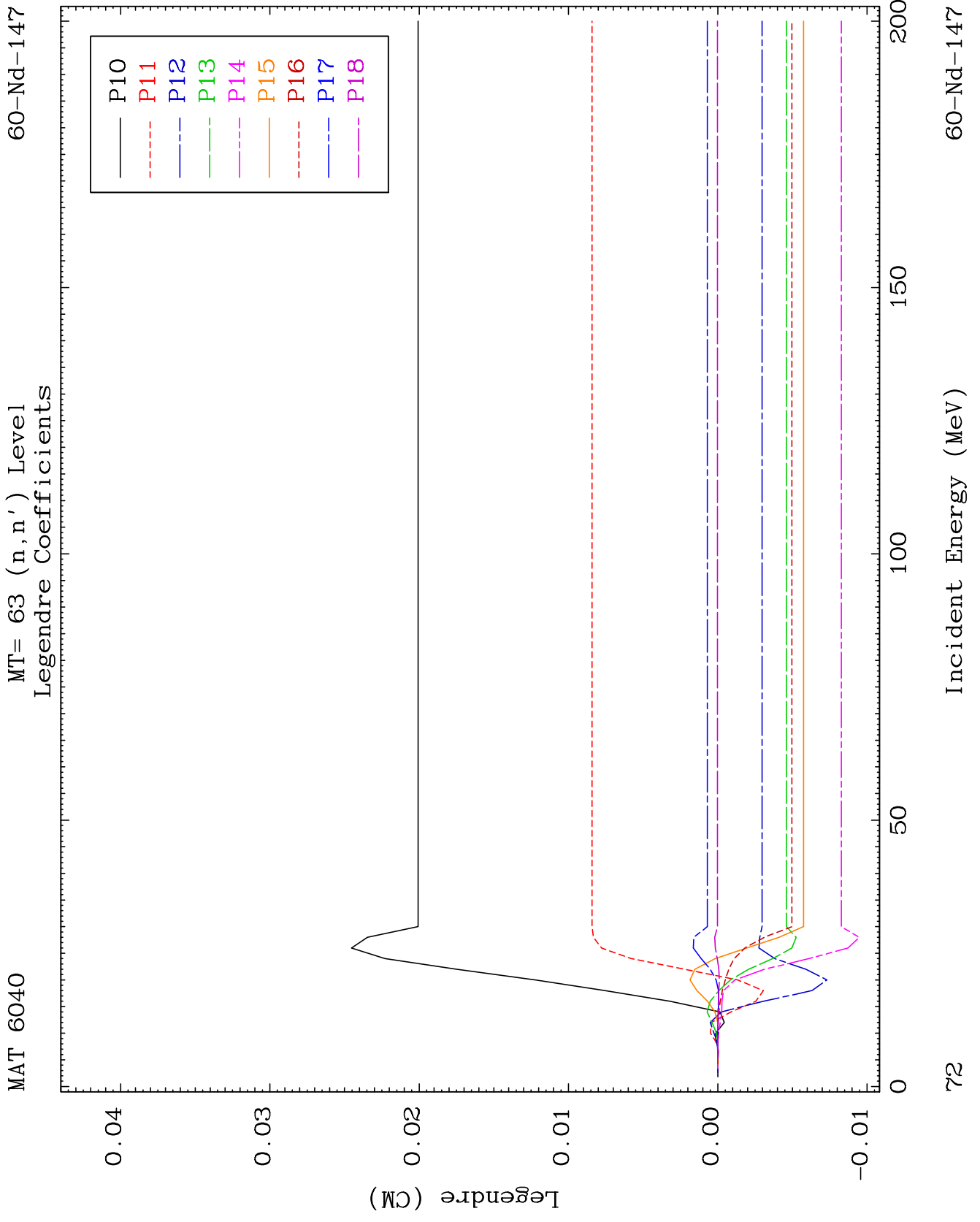


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Incident Energy (MeV)

60-Nd-147

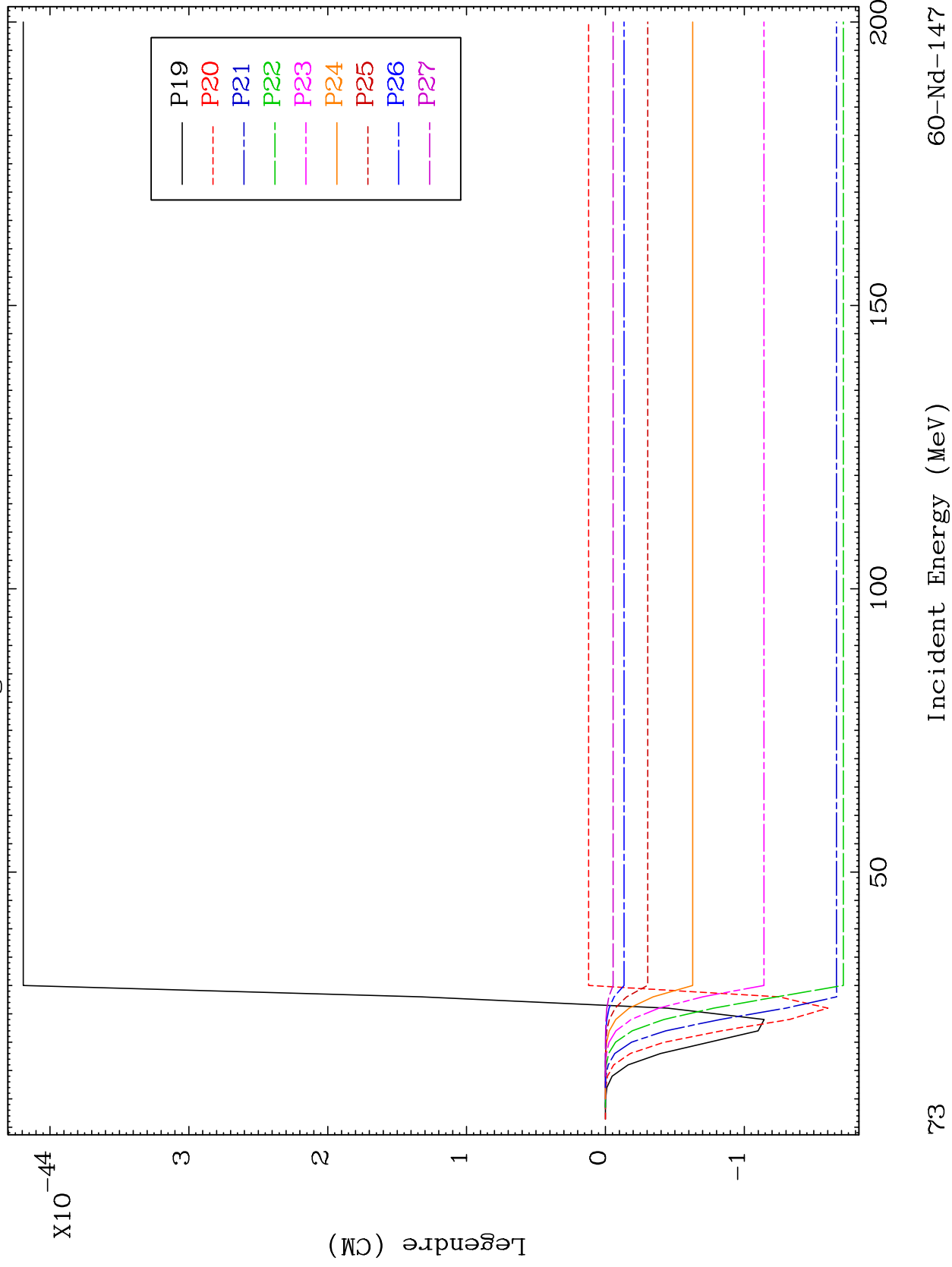


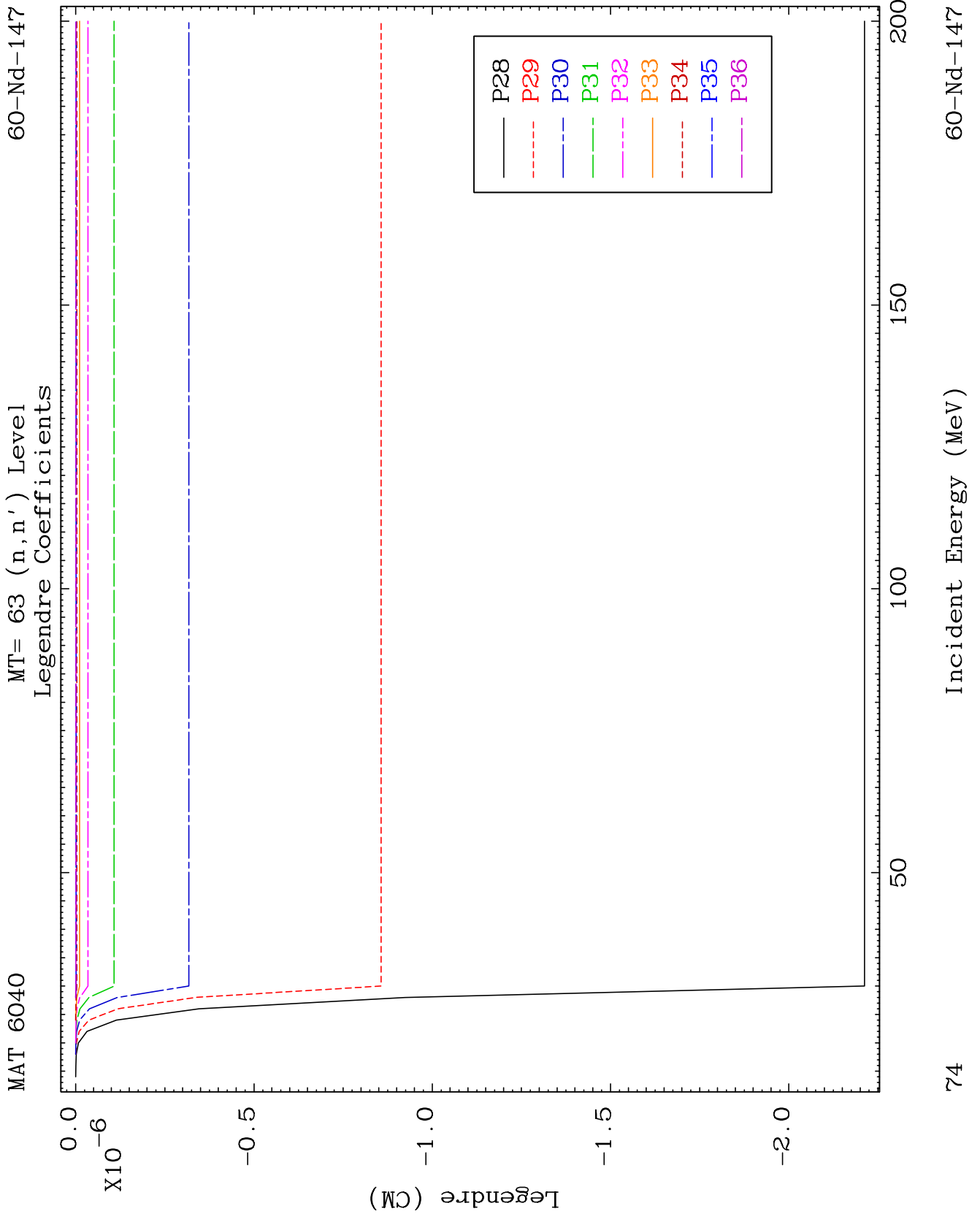


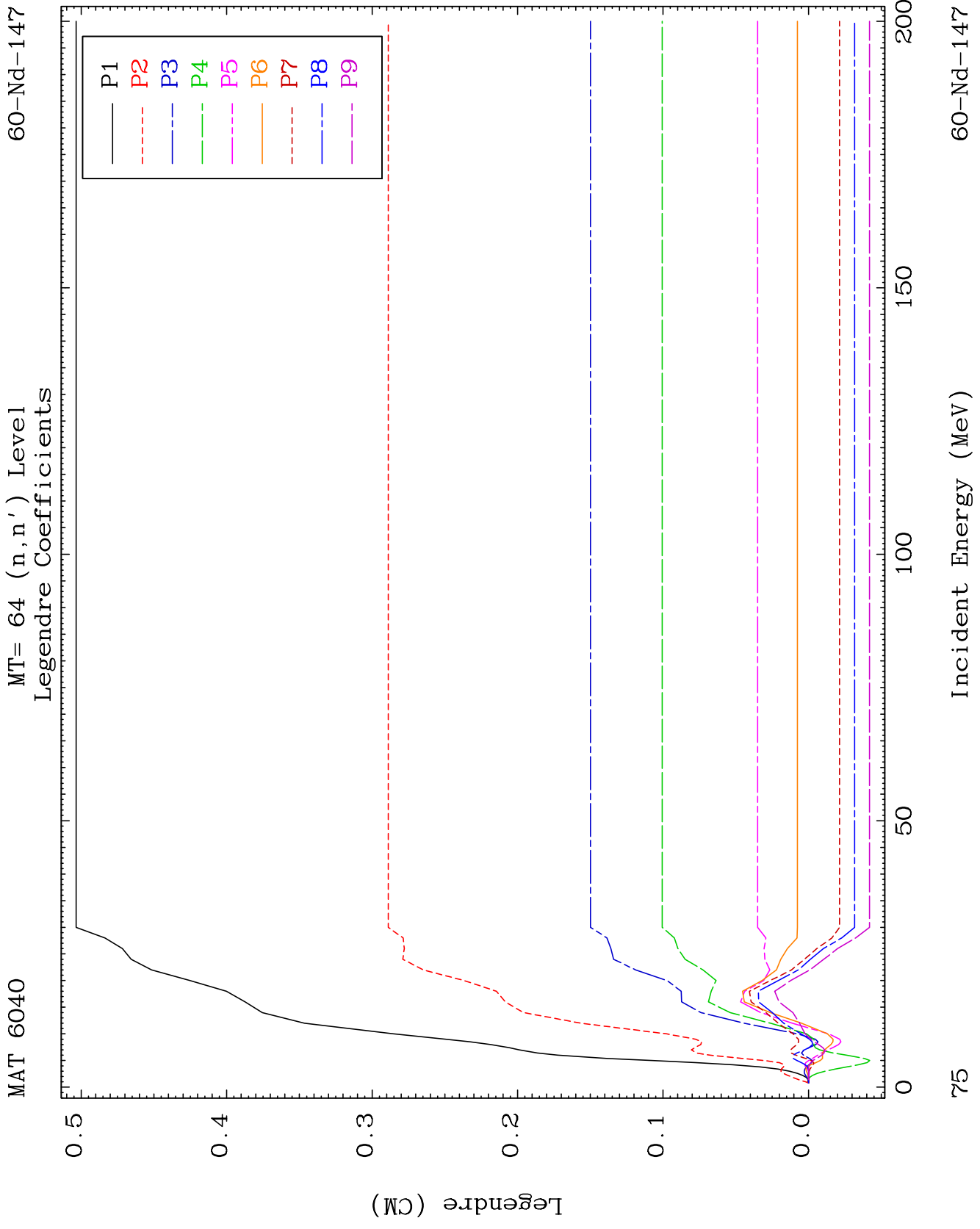
MAT 6040

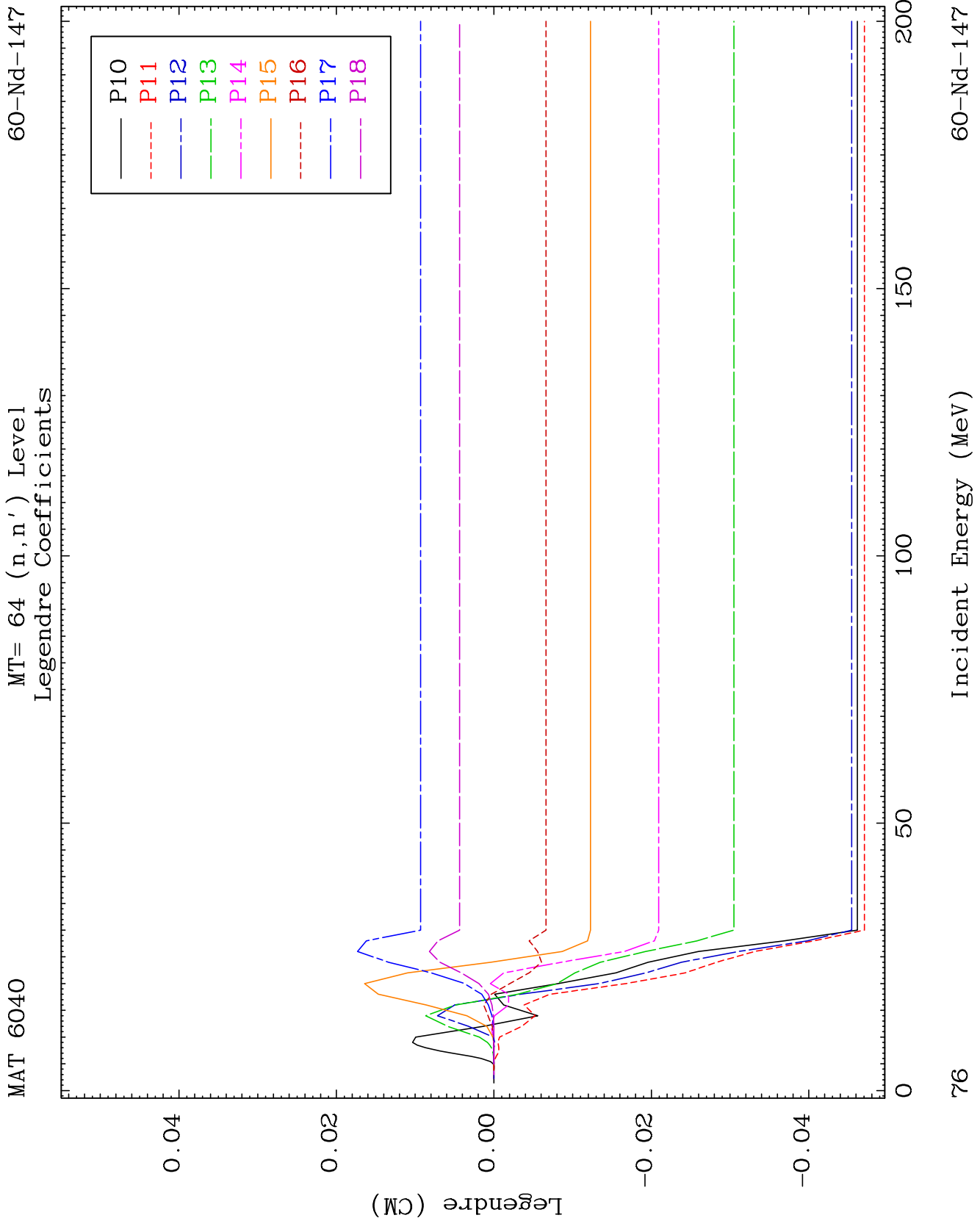
MT= 63 (n,n') Level  
Legendre Coefficients

60-Nd-147

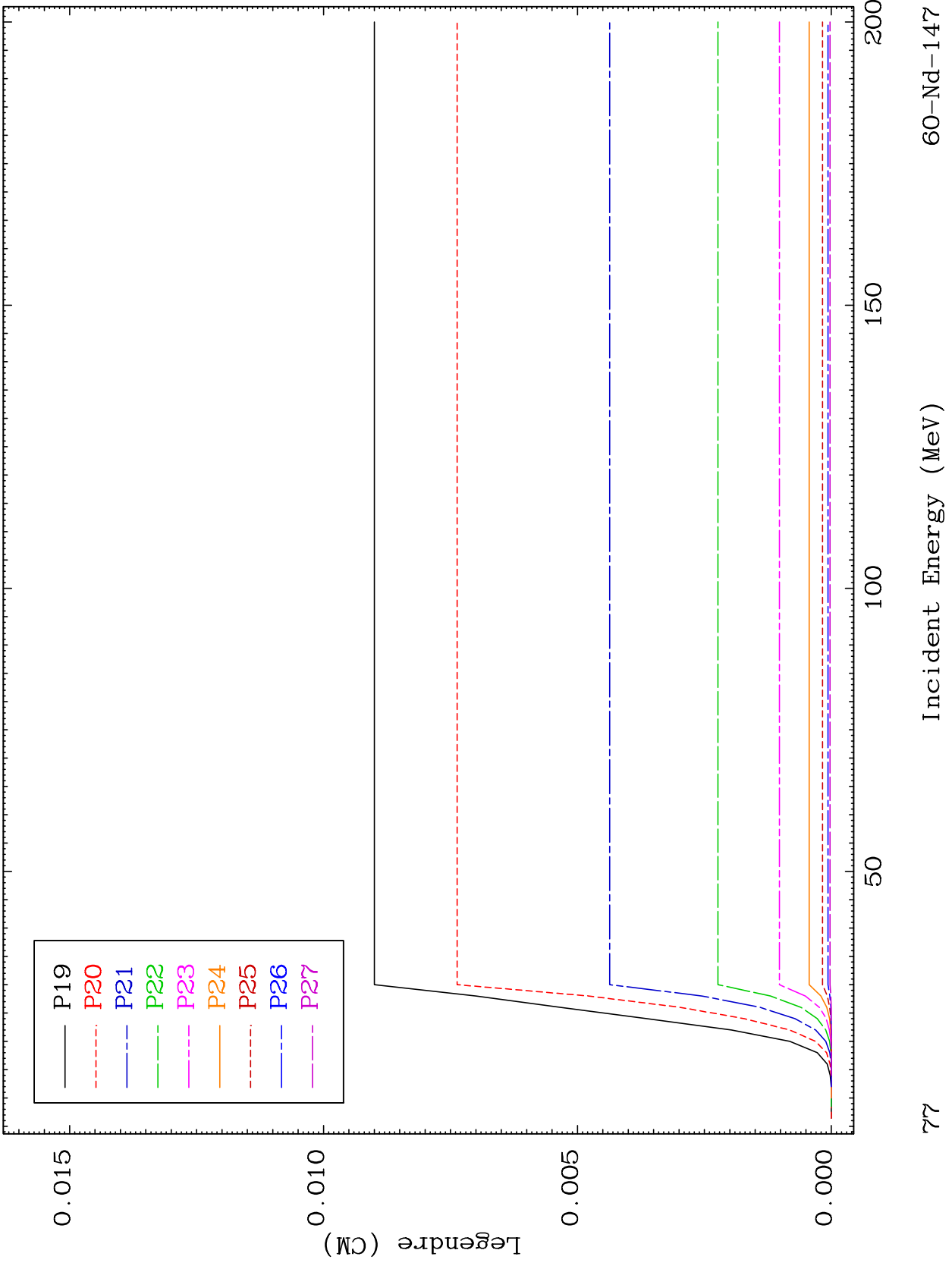


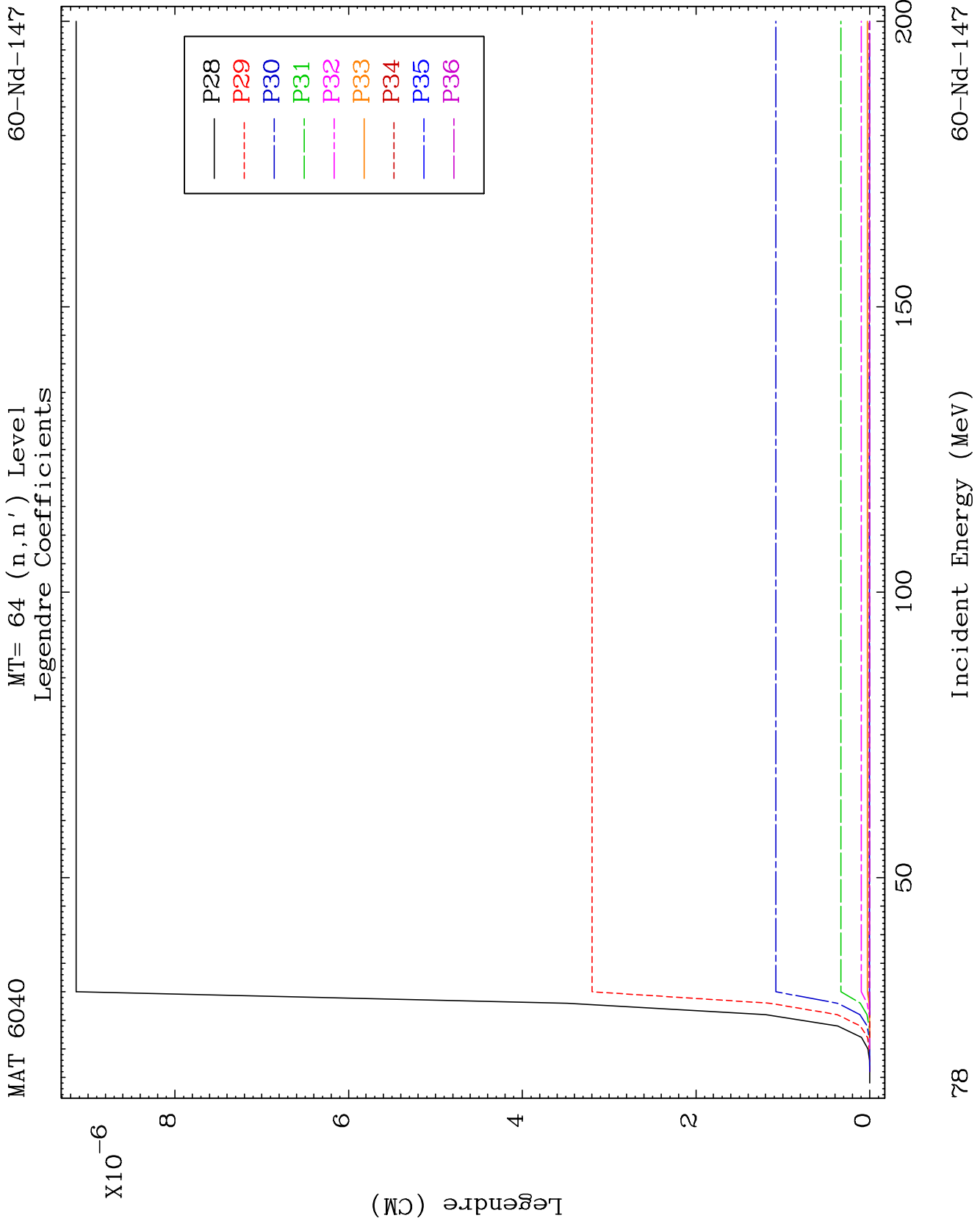


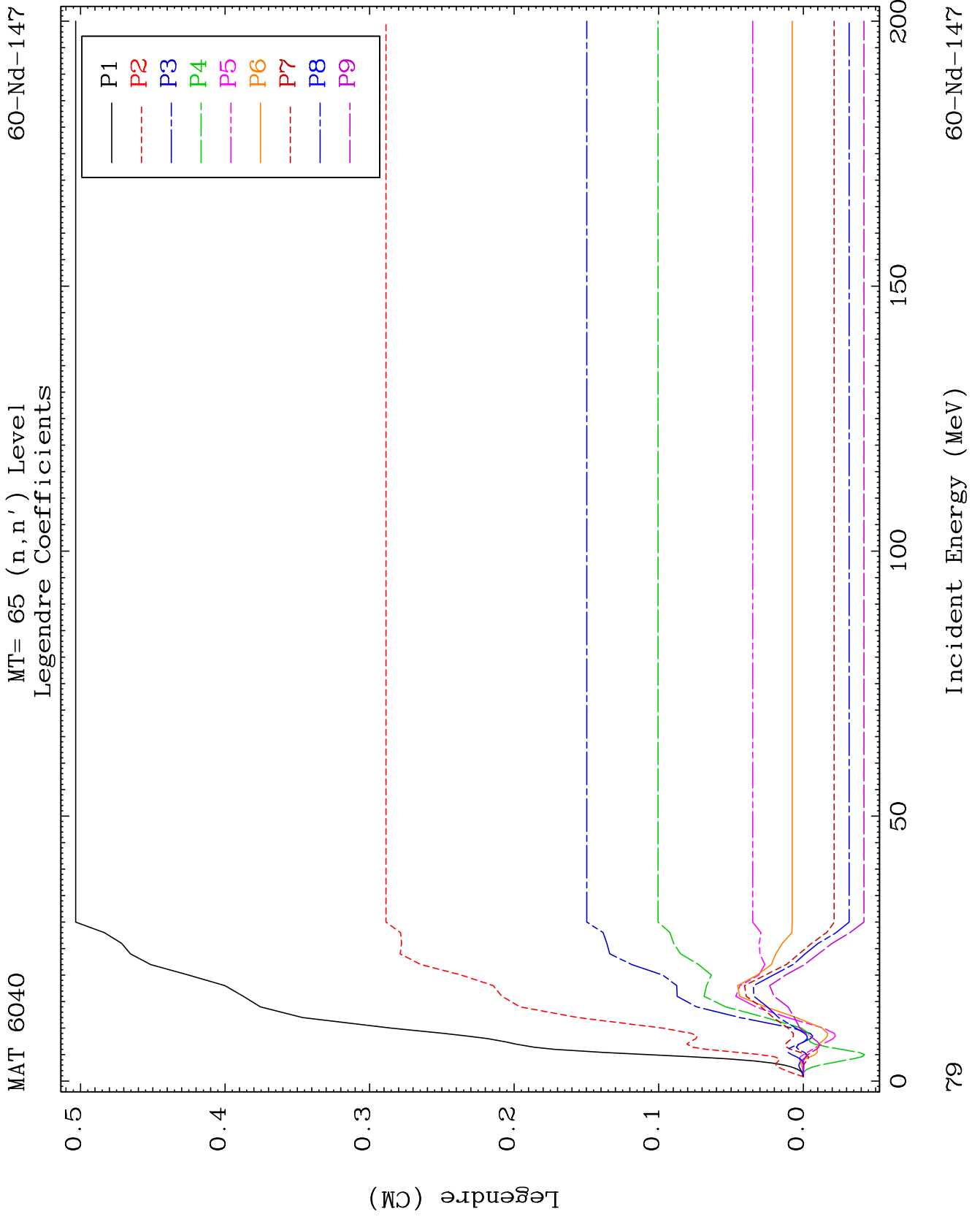




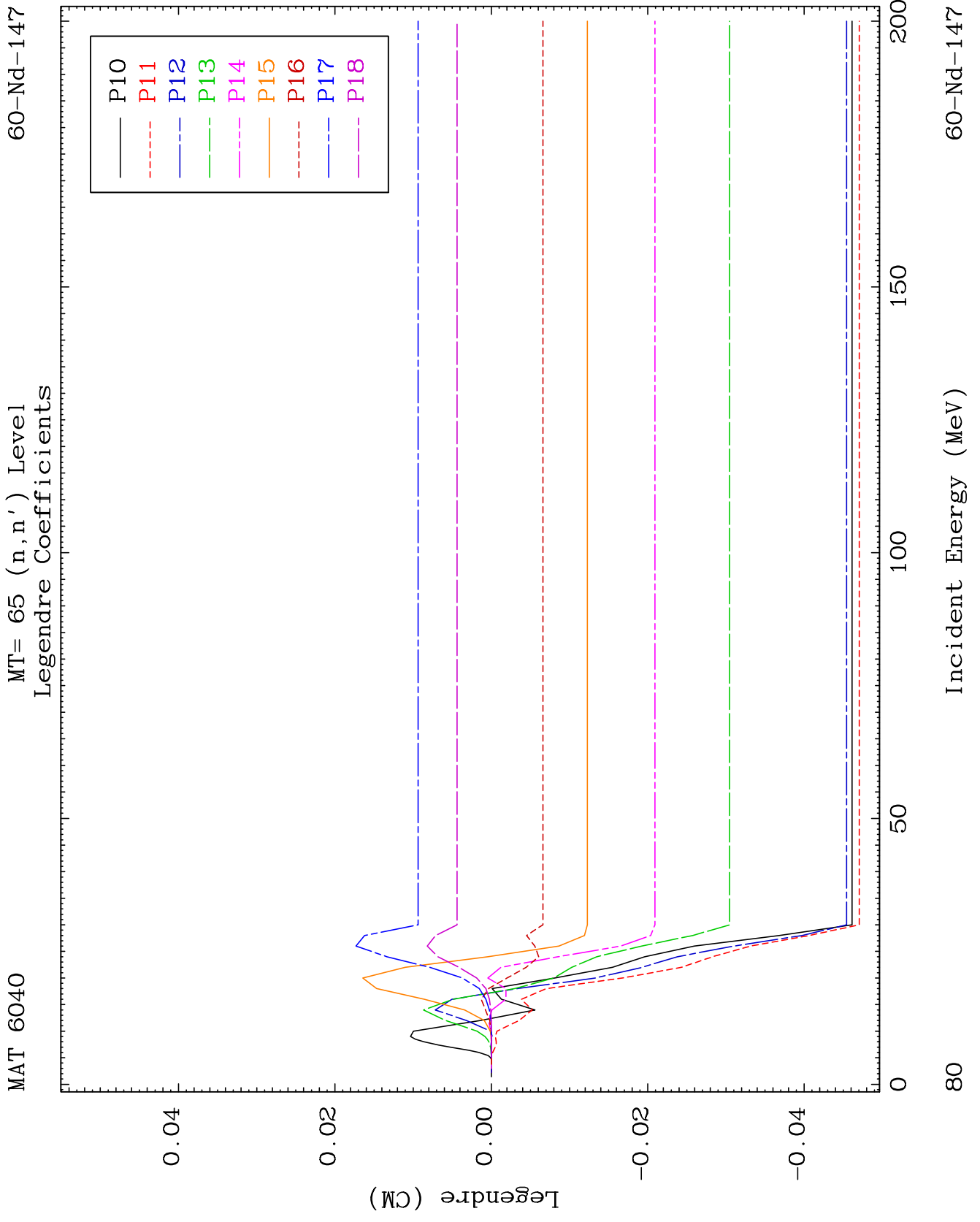
MAT 6040 MT= 64 (n,n') Level Legendre Coefficients 60-Nd-147







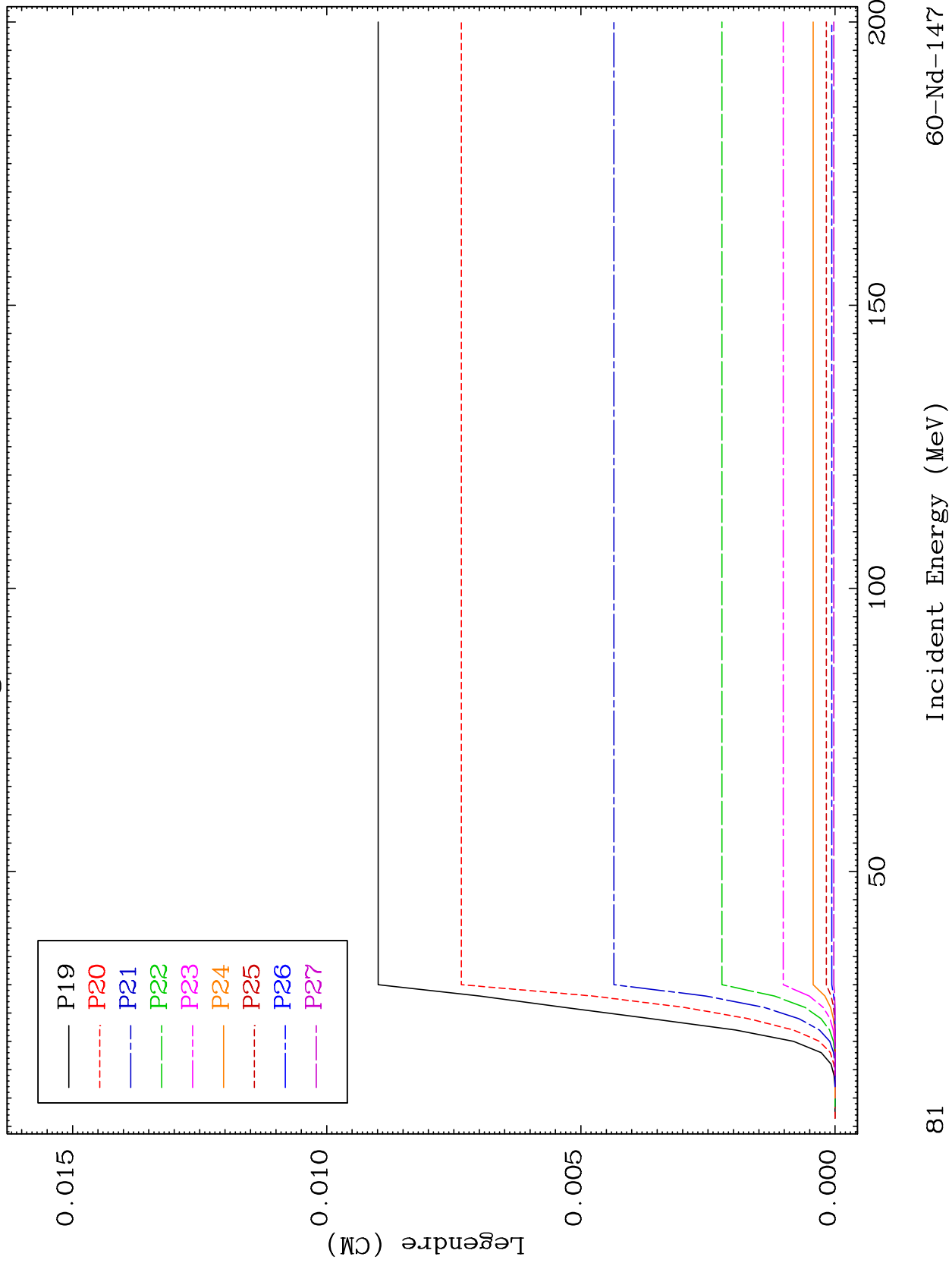




MAT 6040

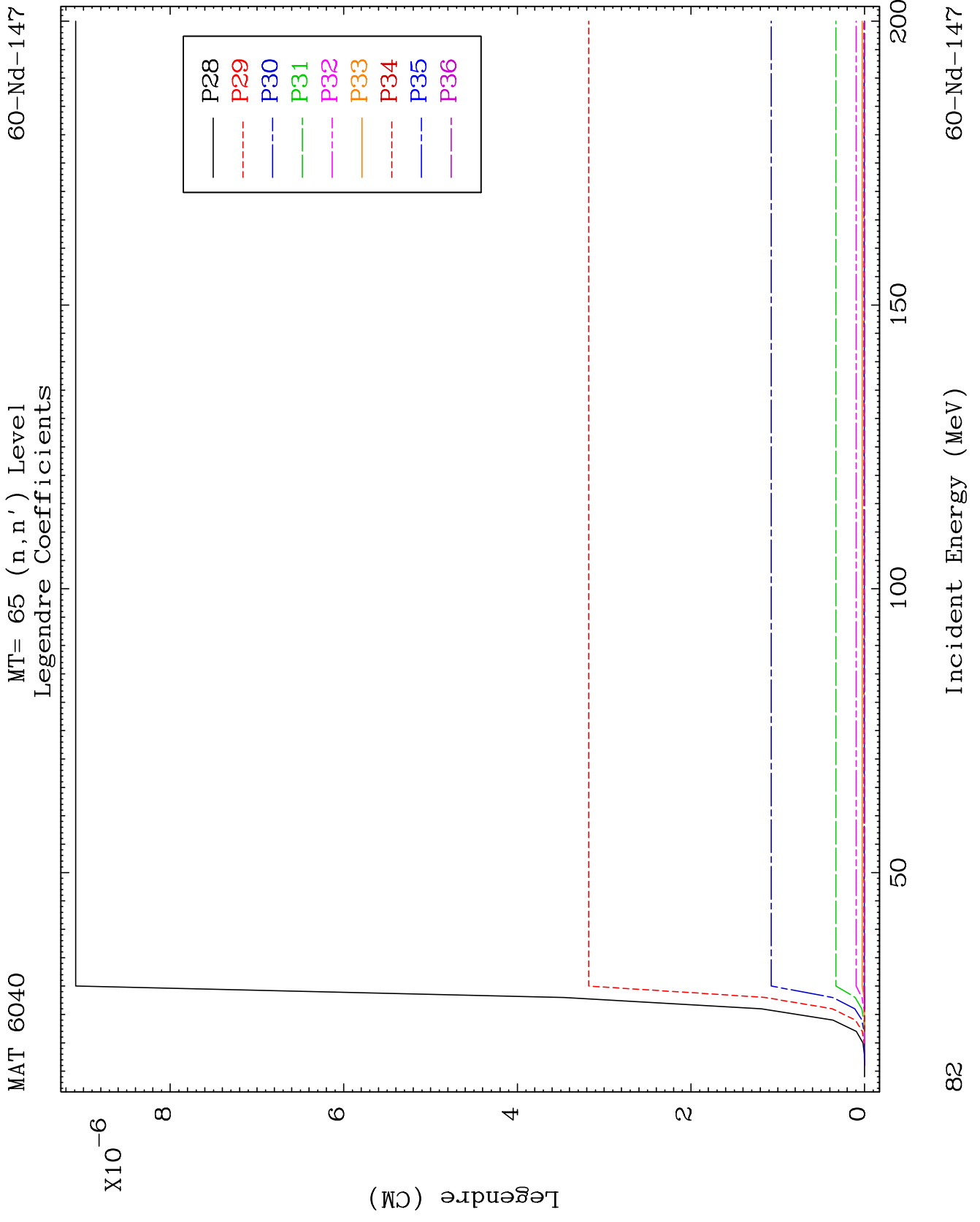
MT= 65 (n,n') Level  
Legendre Coefficients

60-Nd-147



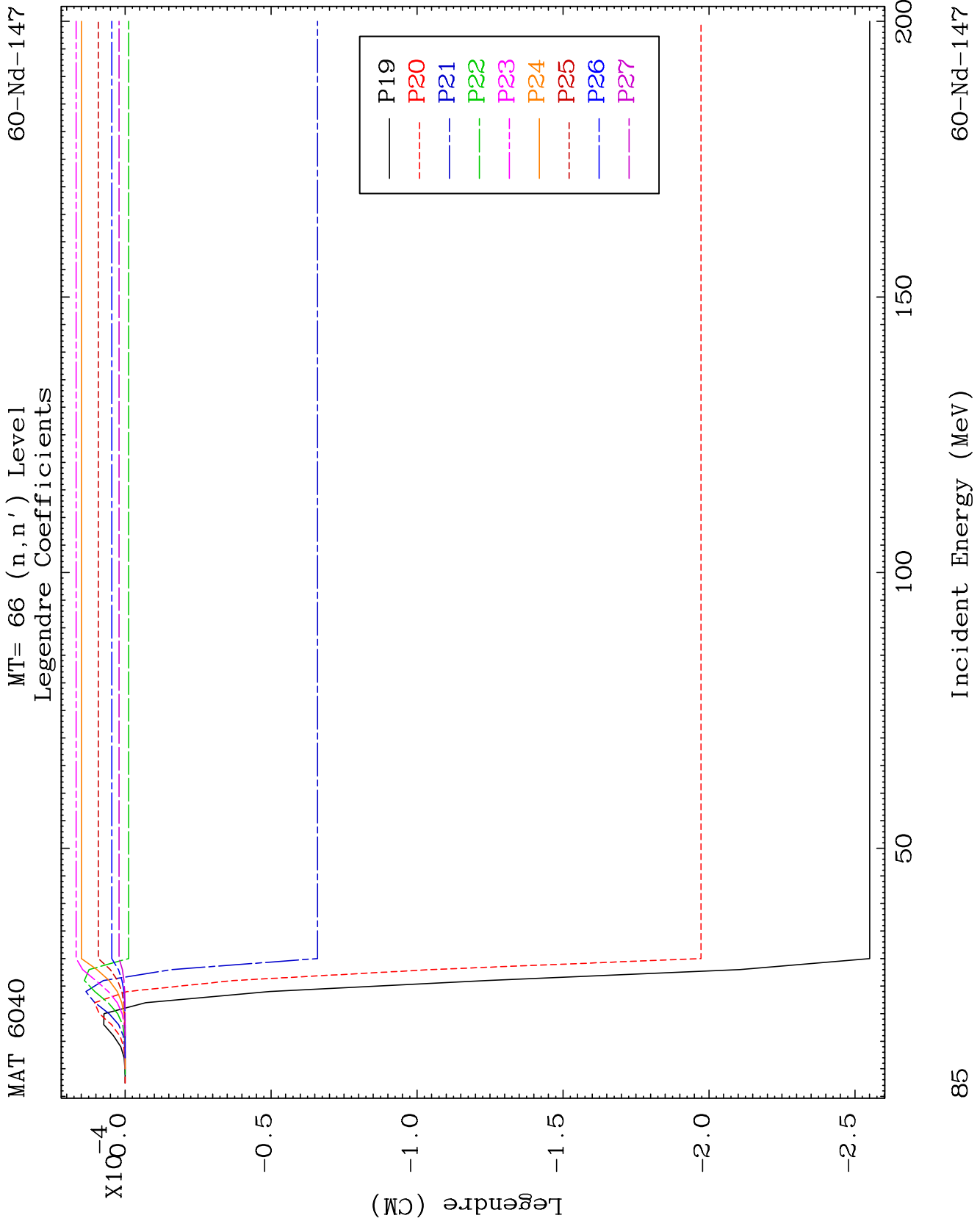
81

60-Nd-147





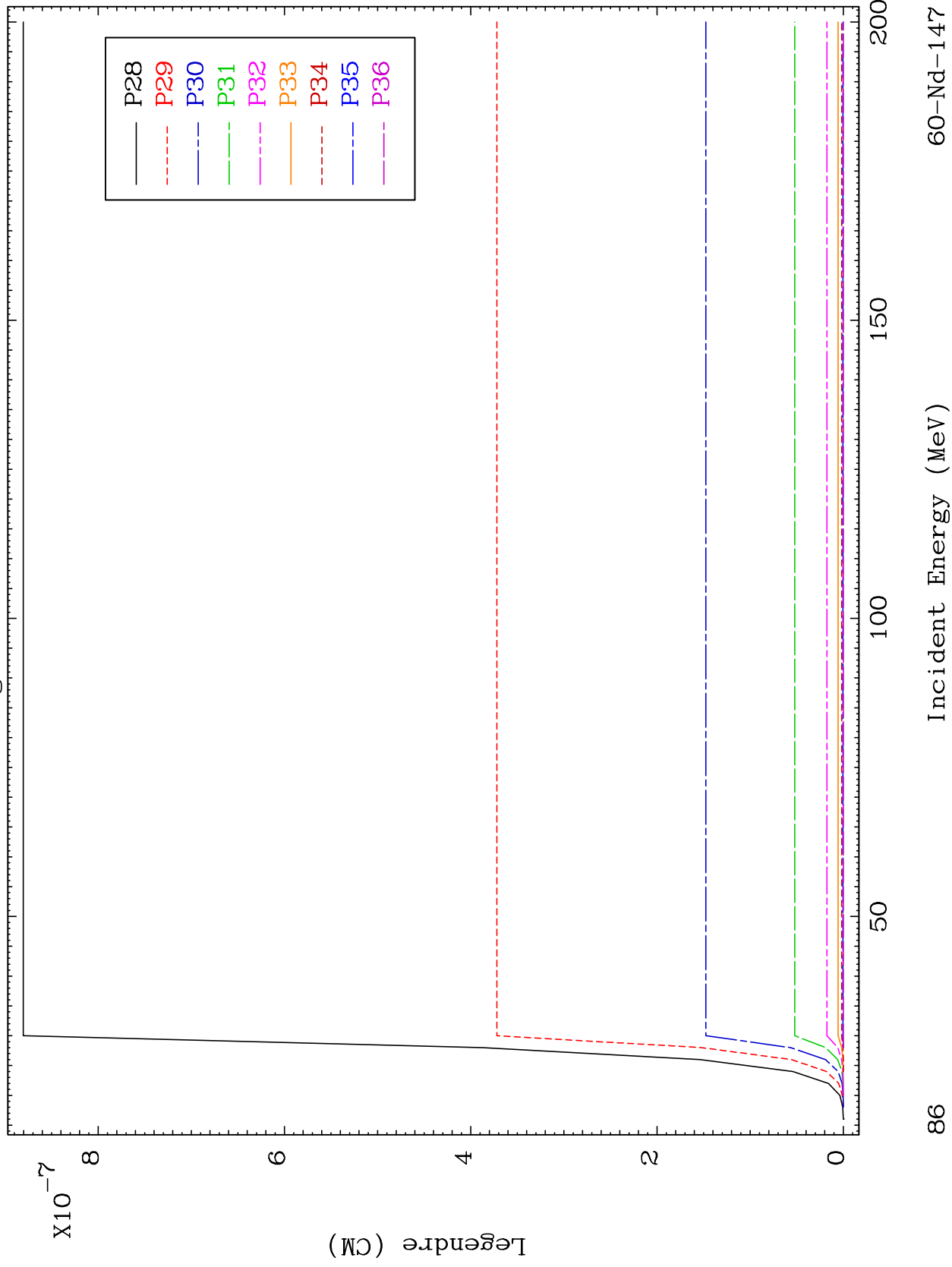




MAT 6040

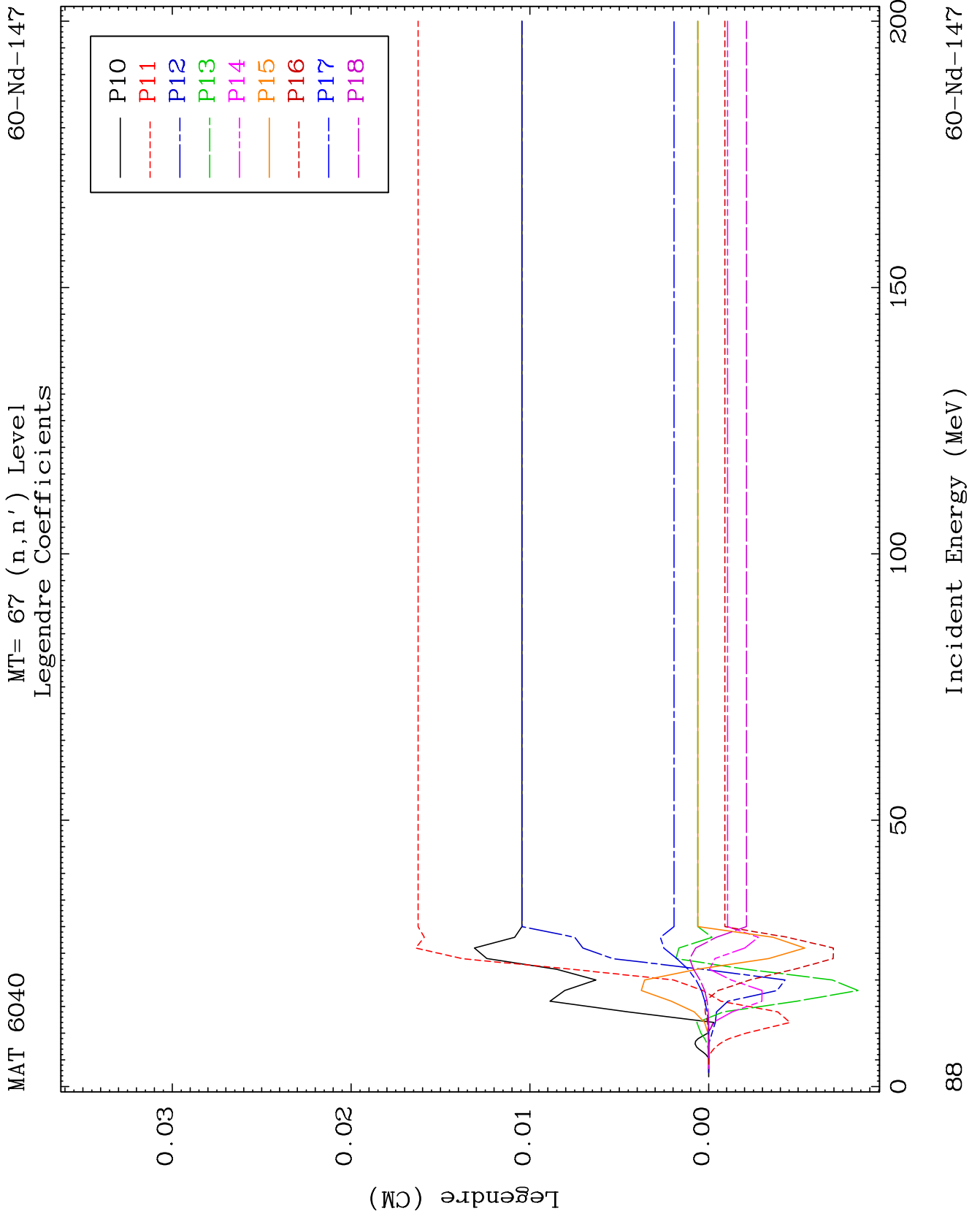
MT= 66 (n,n') Level  
Legendre Coefficients

60-Nd-147





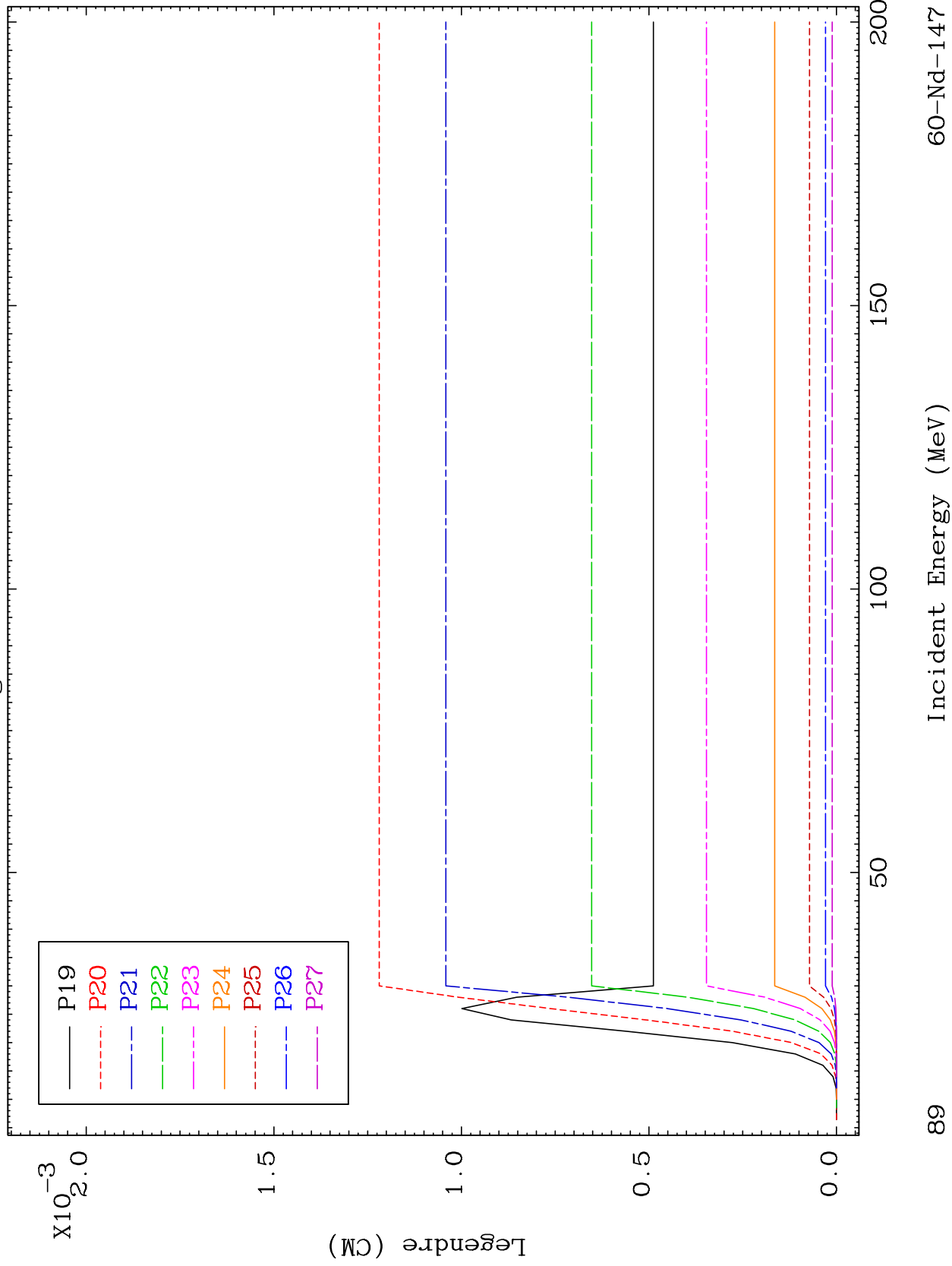




MAT 6040

MT= 67 (n,n') Level  
Legendre Coefficients

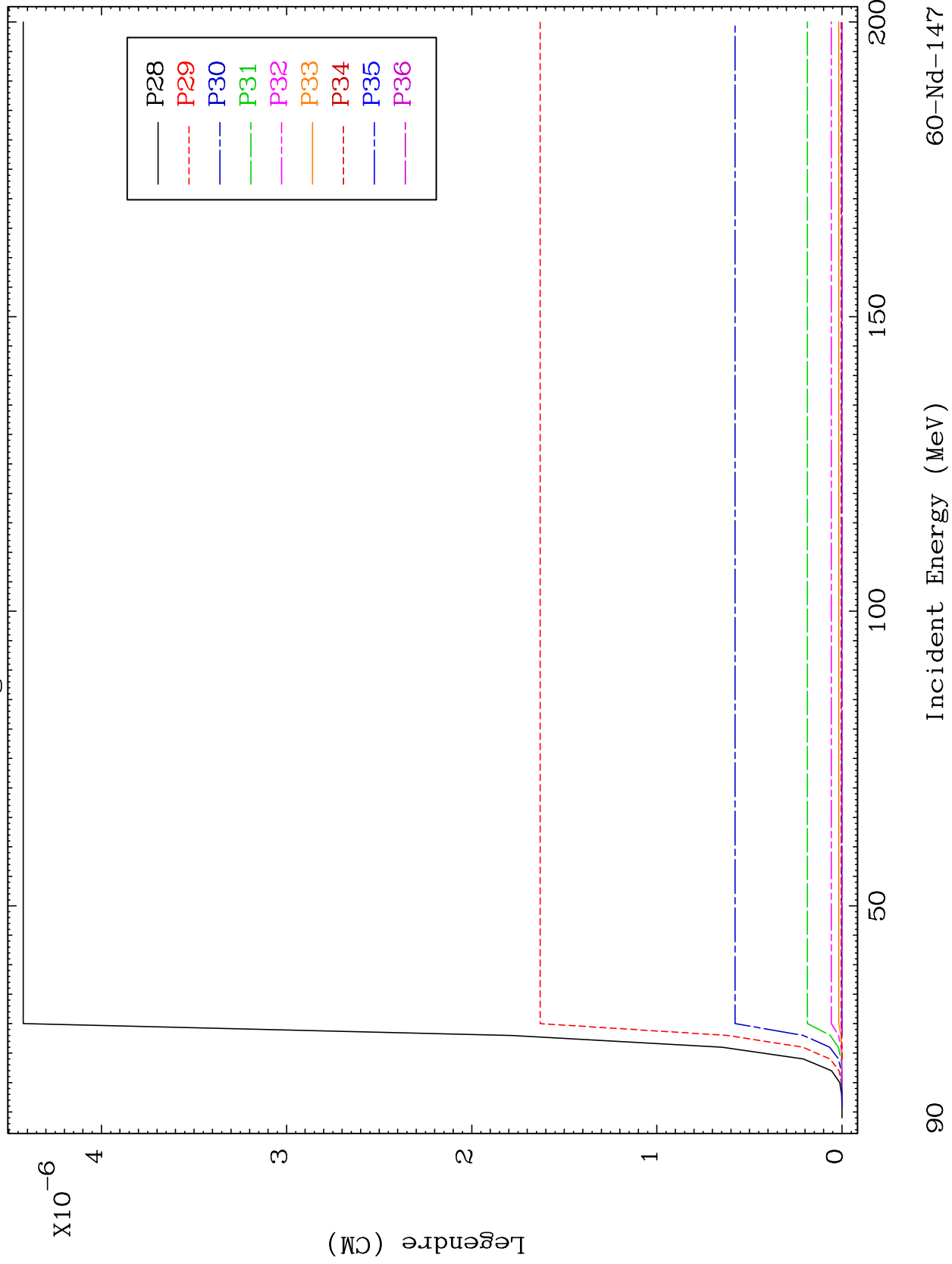
60-Nd-147



MAT 6040

MT= 67 (n,n') Level  
Legendre Coefficients

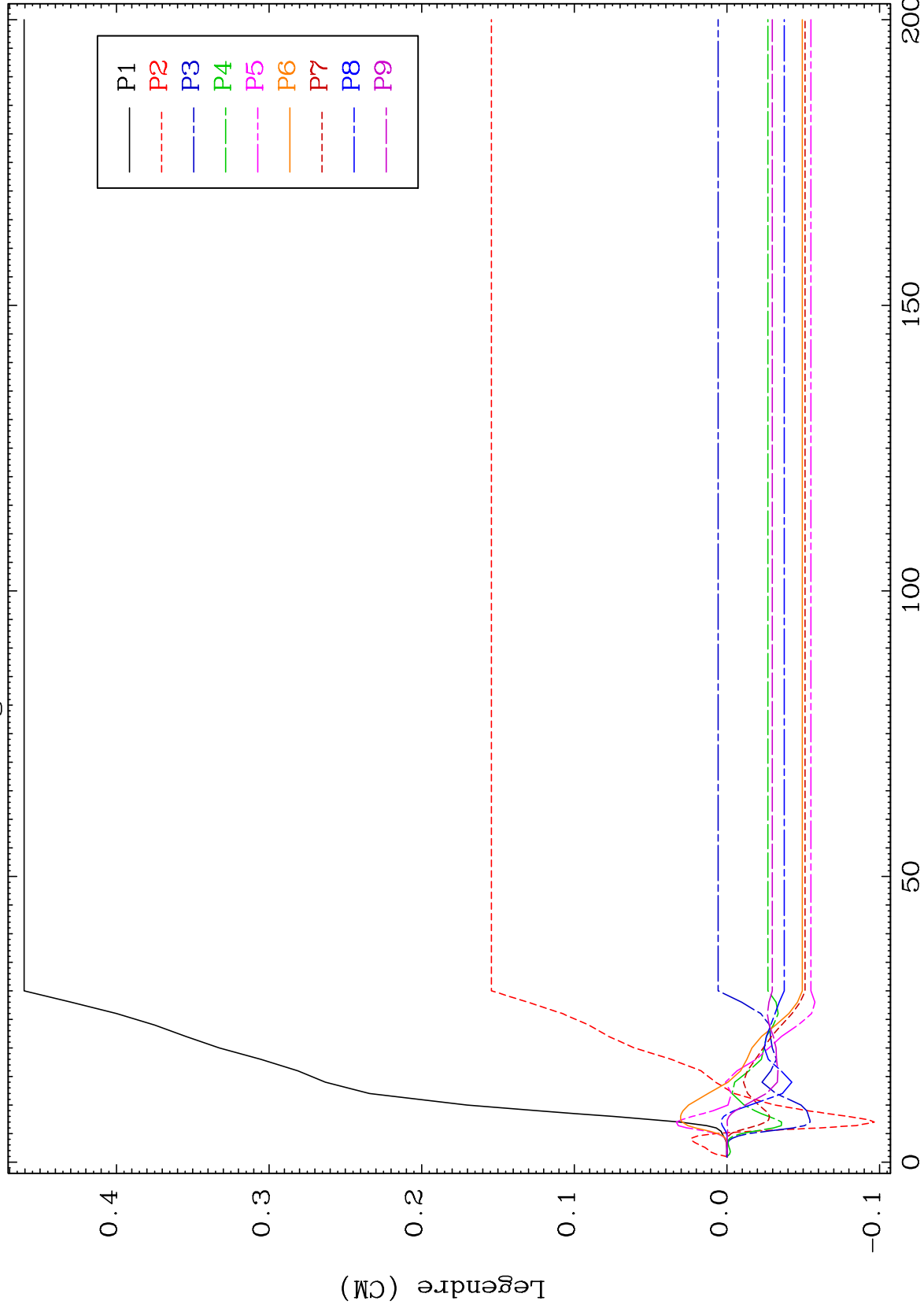
60-Nd-147



MAT 6040

MT= 68 (n,n') Level  
Legendre Coefficients

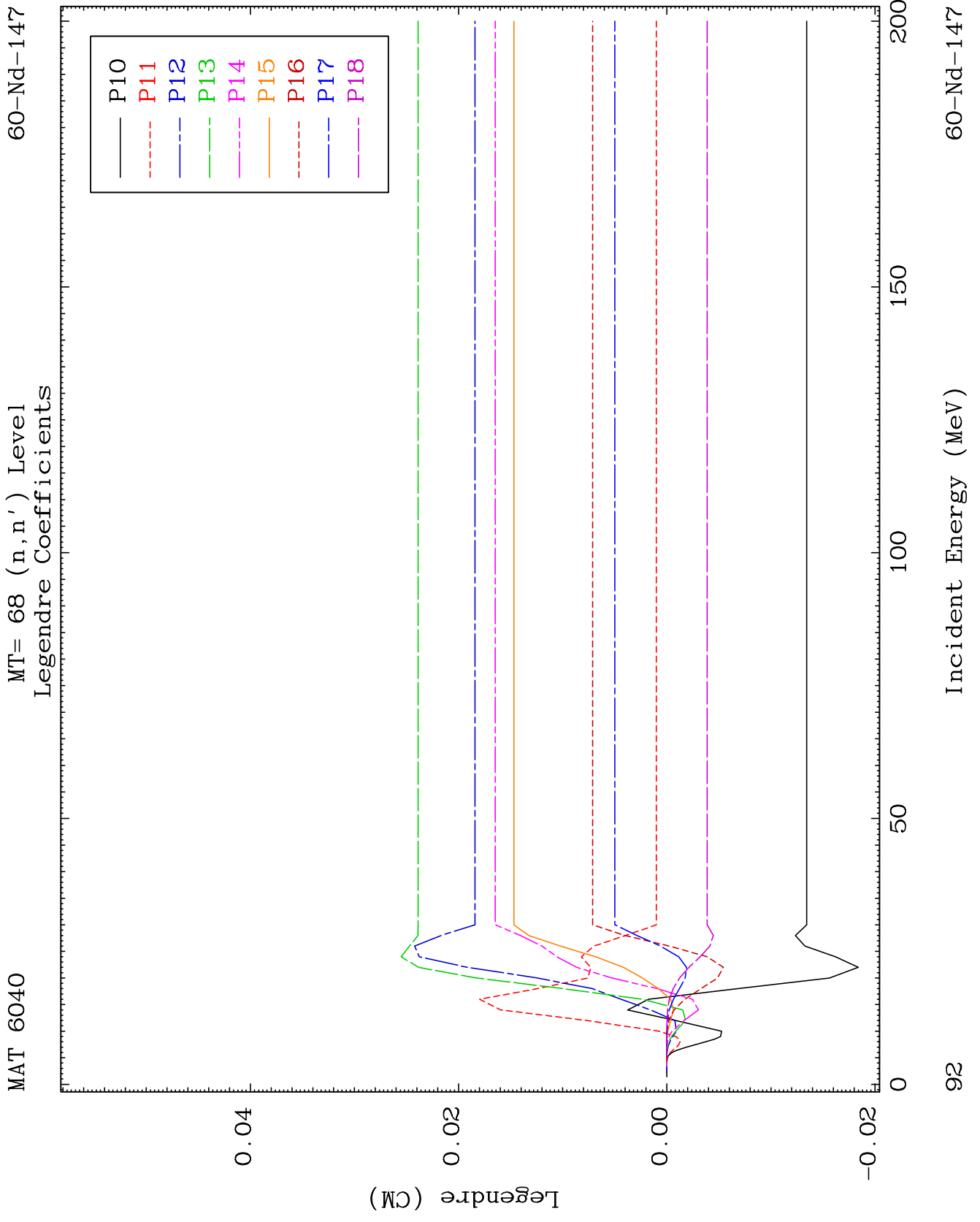
60-Nd-147



91

Incident Energy (MeV)

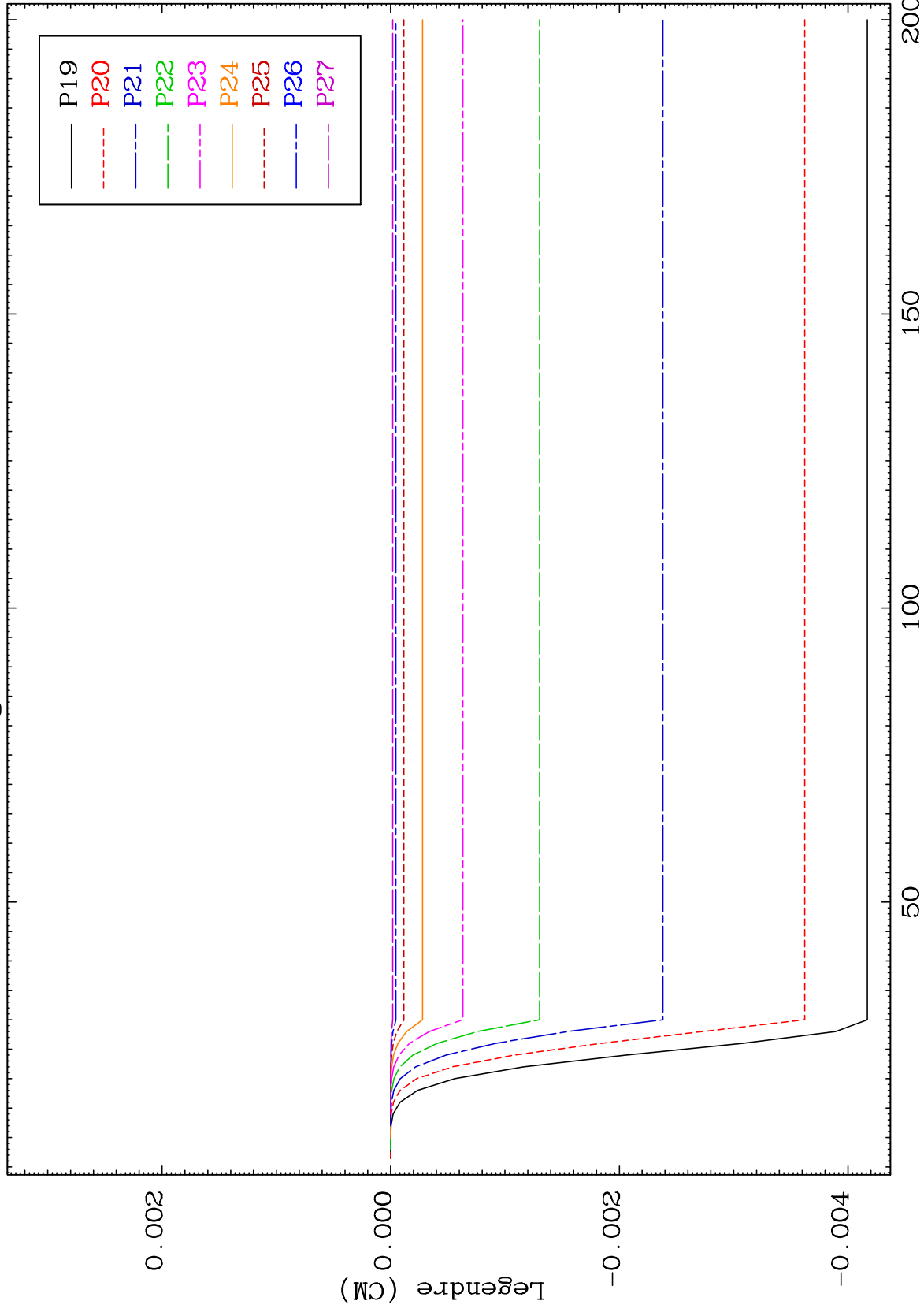
60-Nd-147



MAT 6040

MT= 68 (n,n') Level  
Legendre Coefficients

60-Nd-147

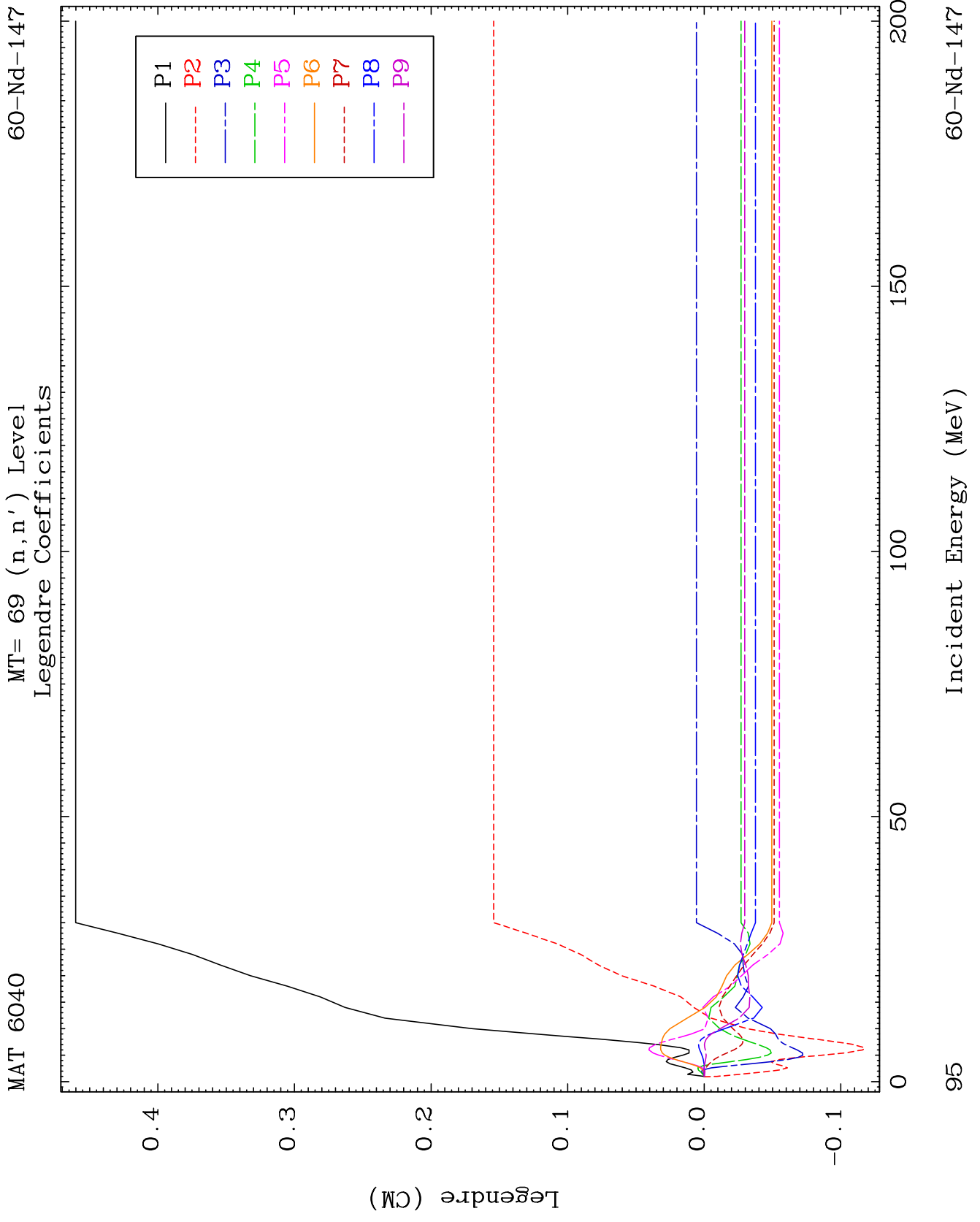


93

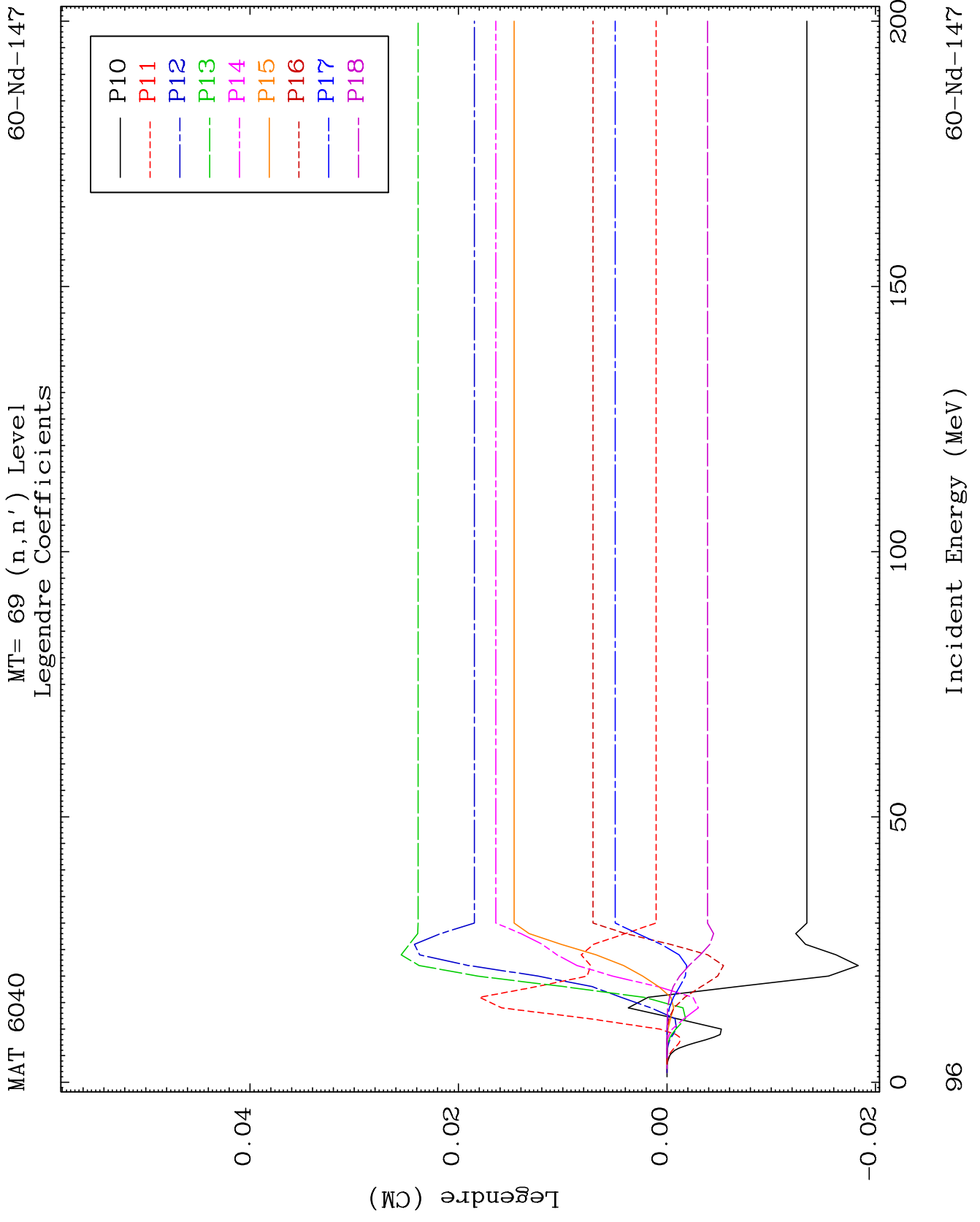
Incident Energy (MeV)

60-Nd-147

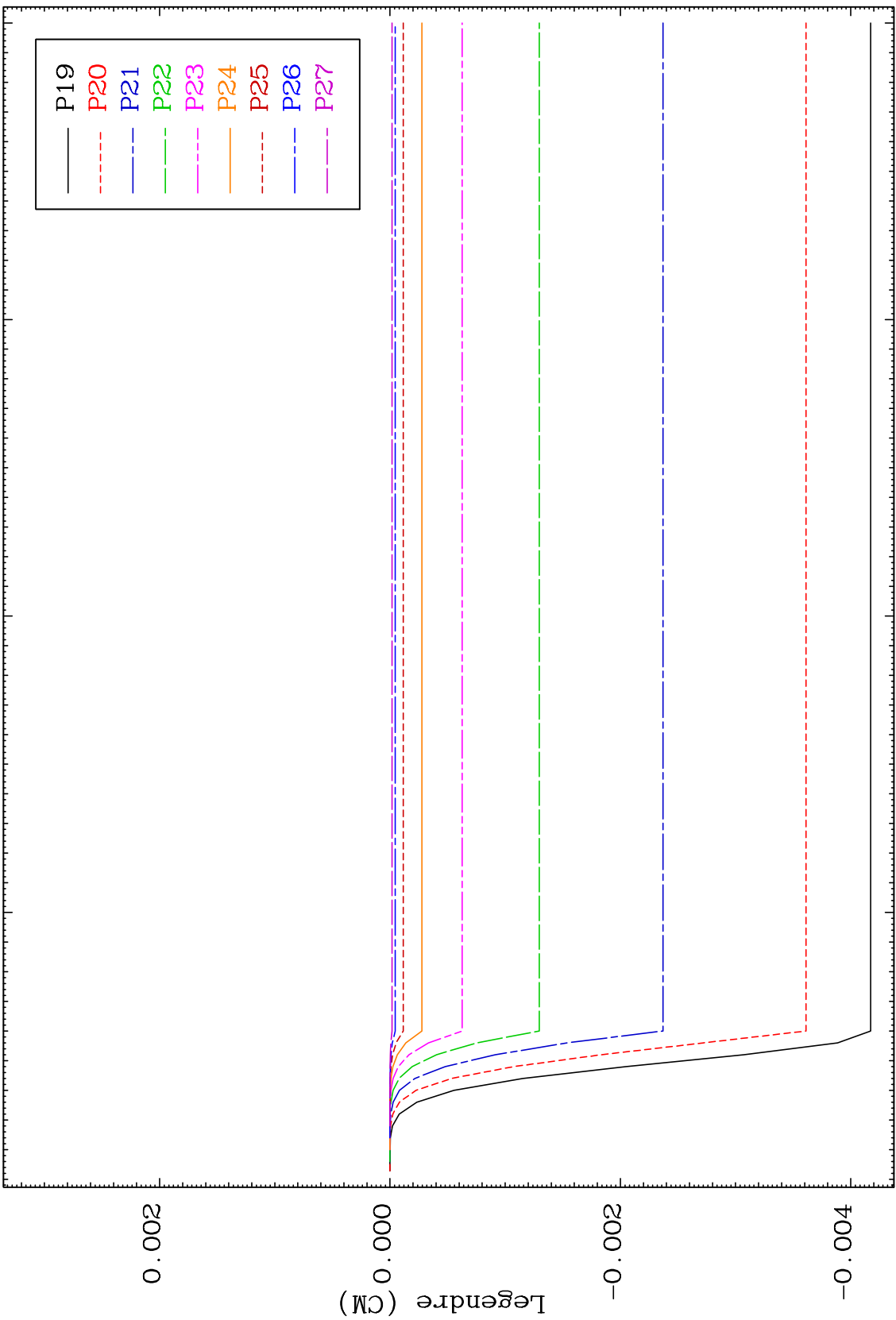


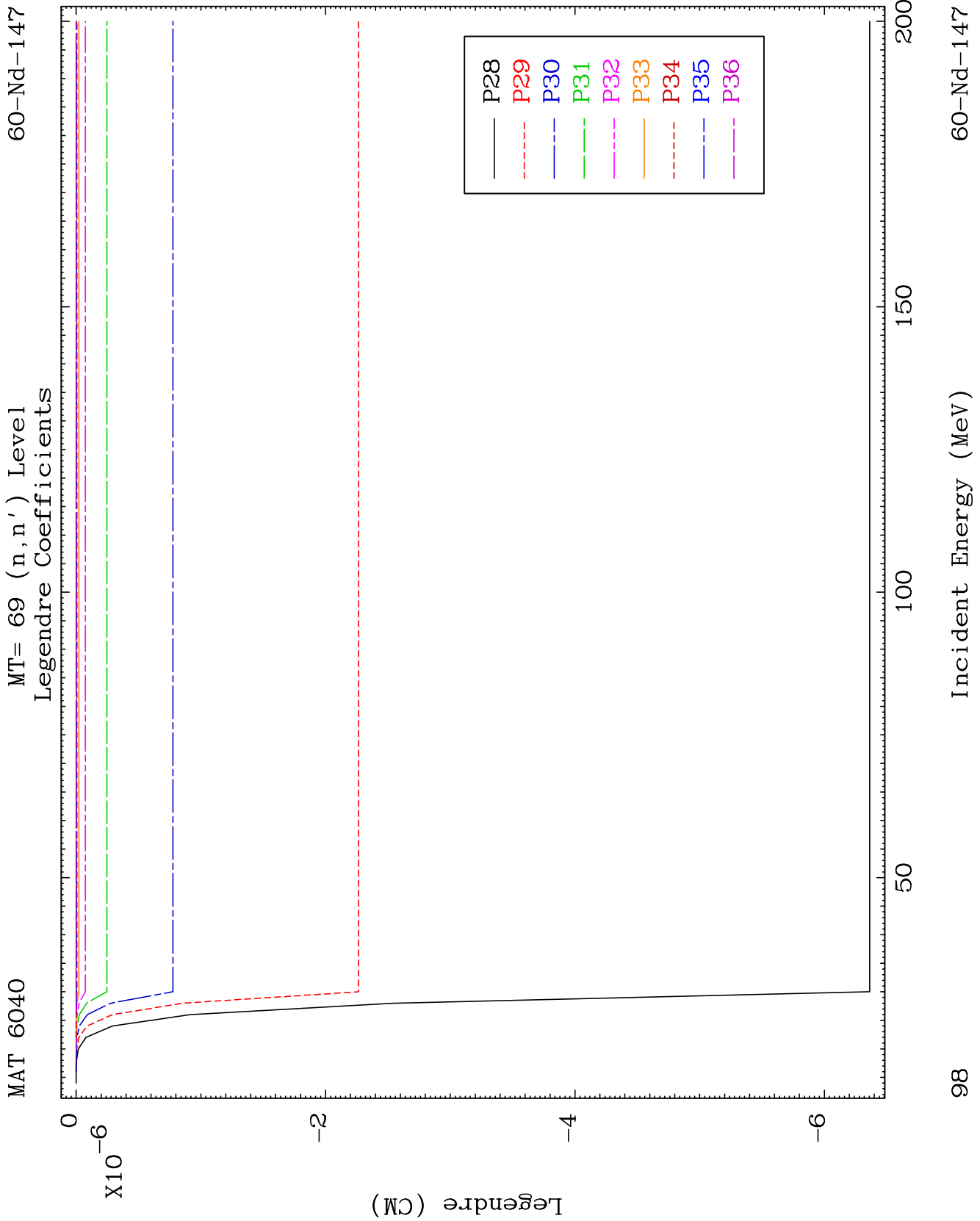


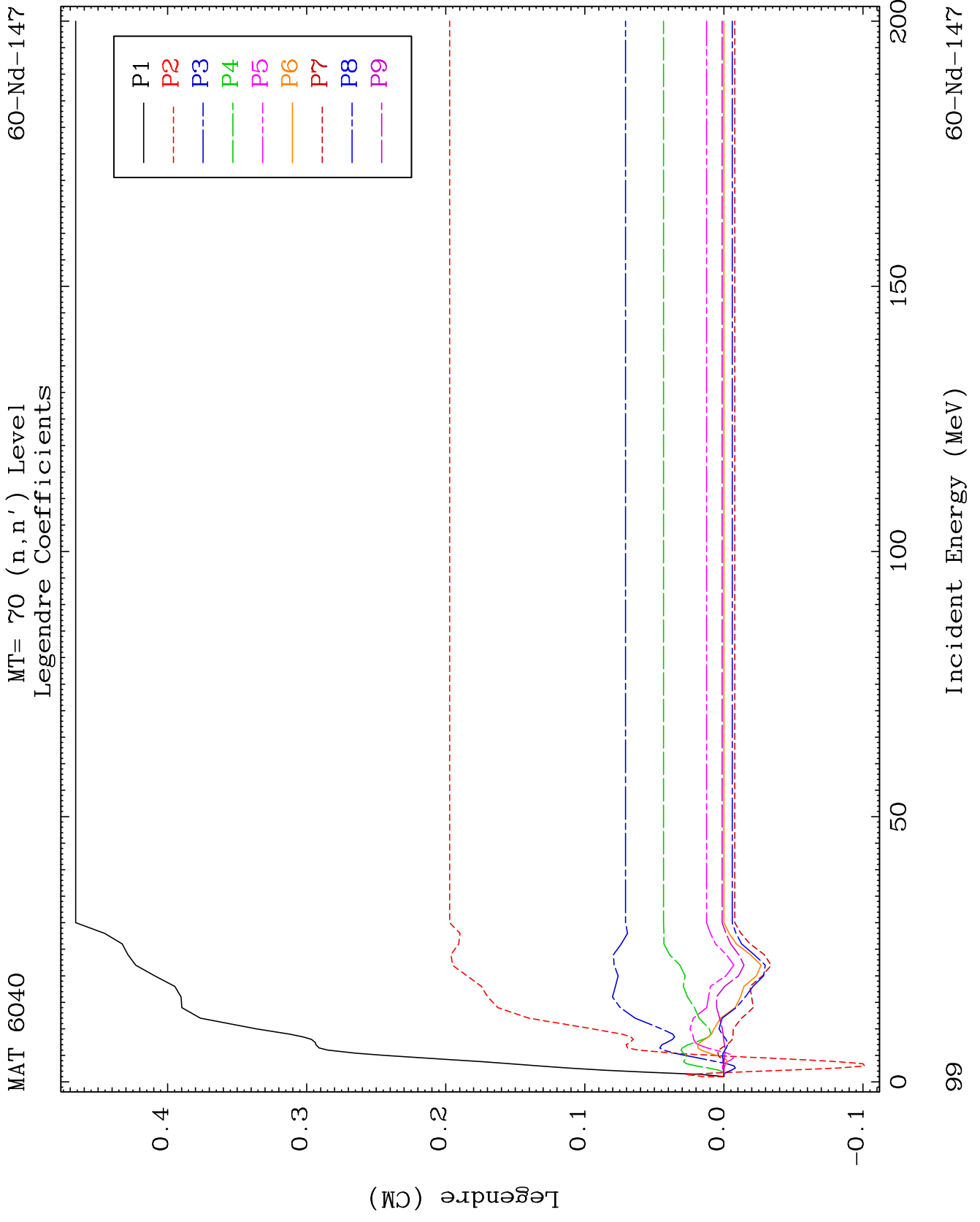


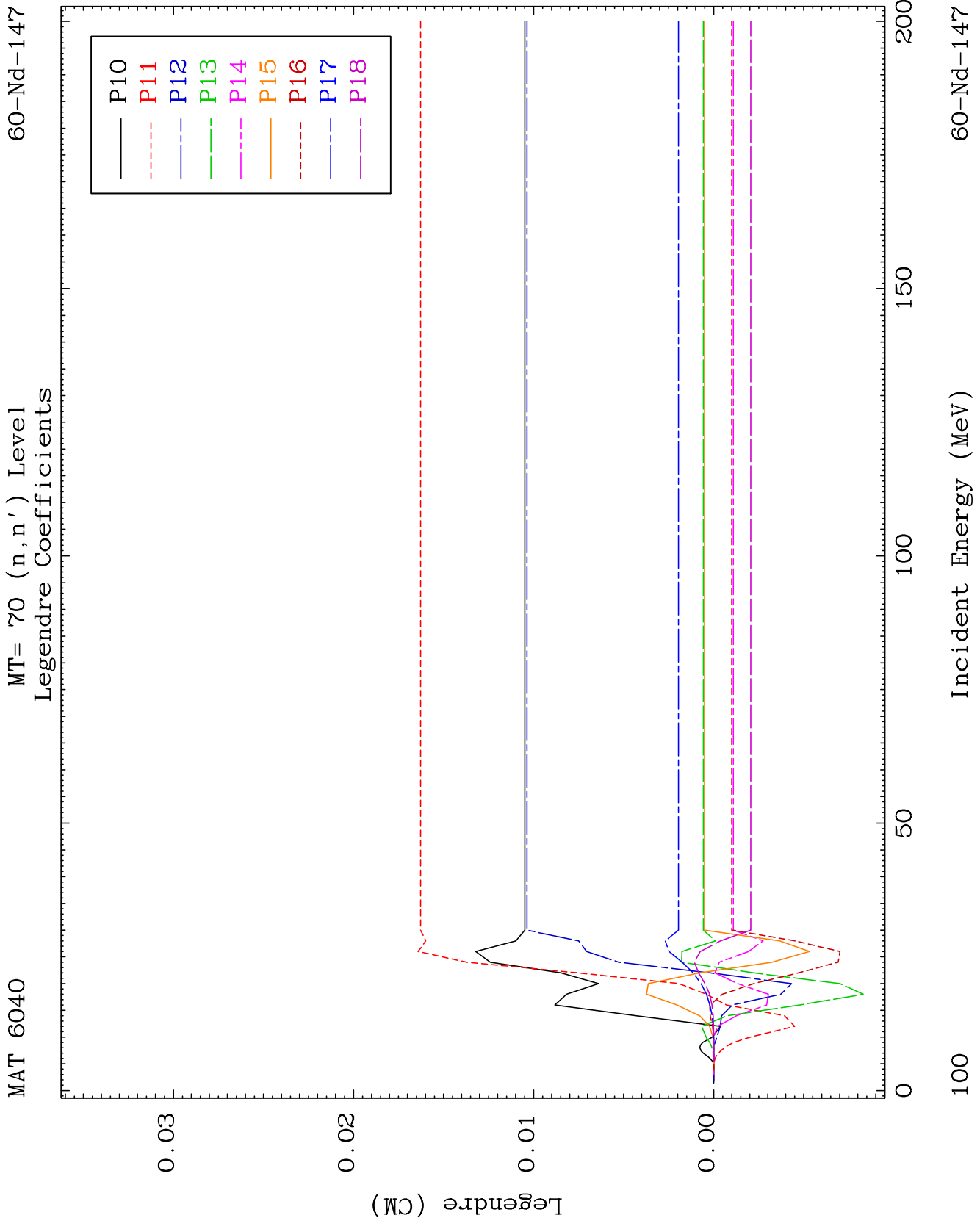


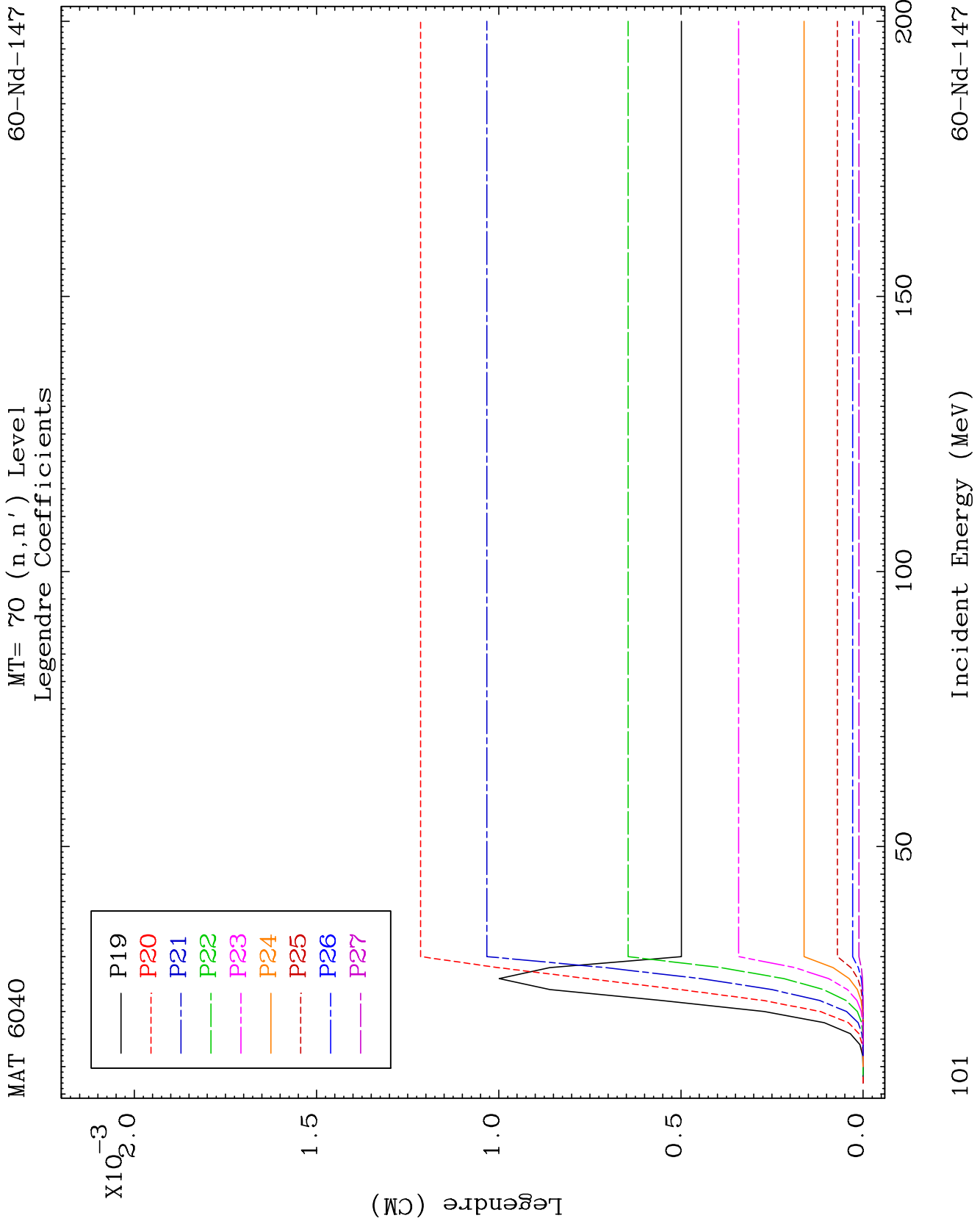
MAT 6040 MT= 69 (n,n') Level Legendre Coefficients 60-Nd-147







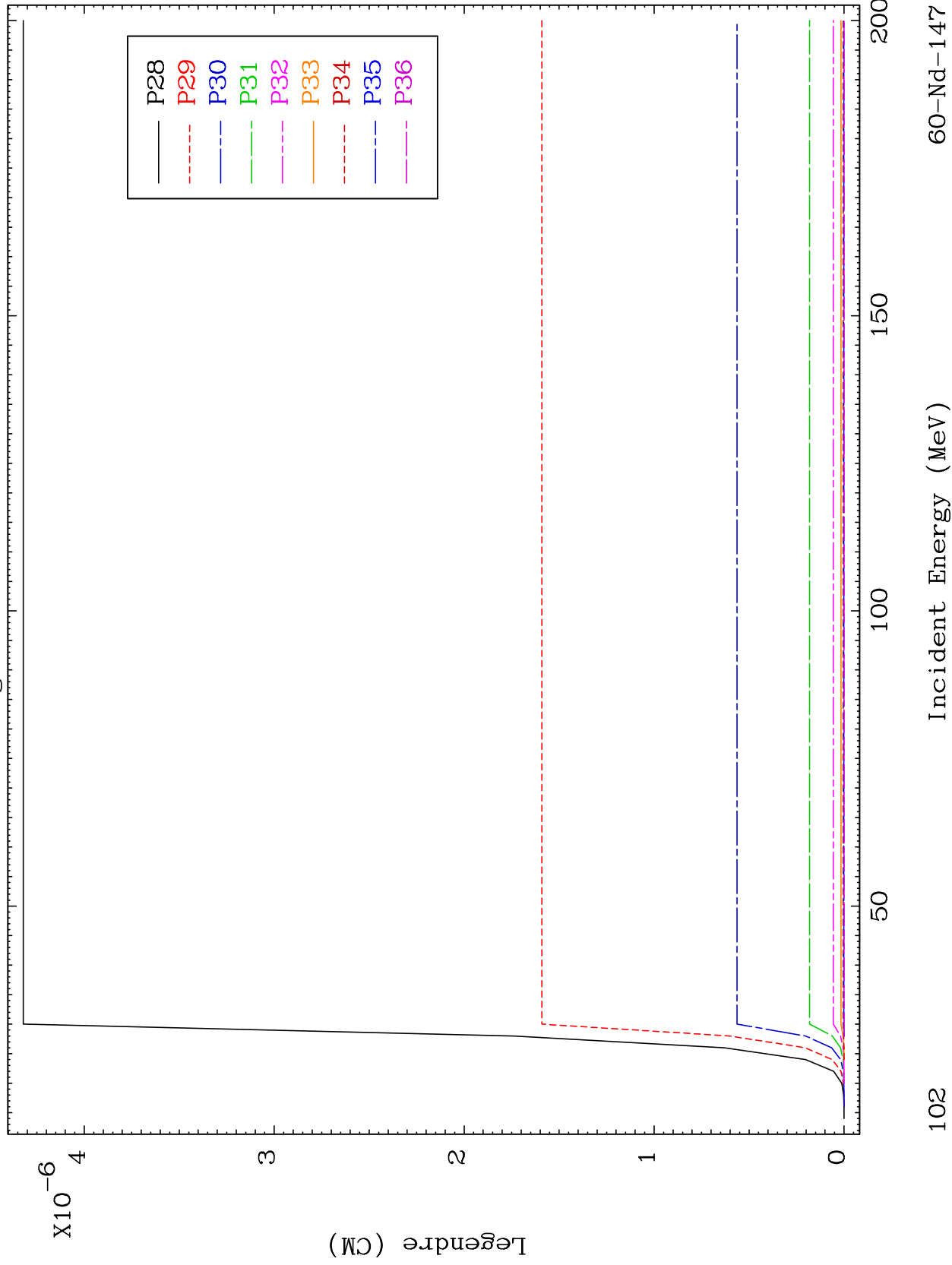




MAT 6040

MT= 70 (n,n') Level  
Legendre Coefficients

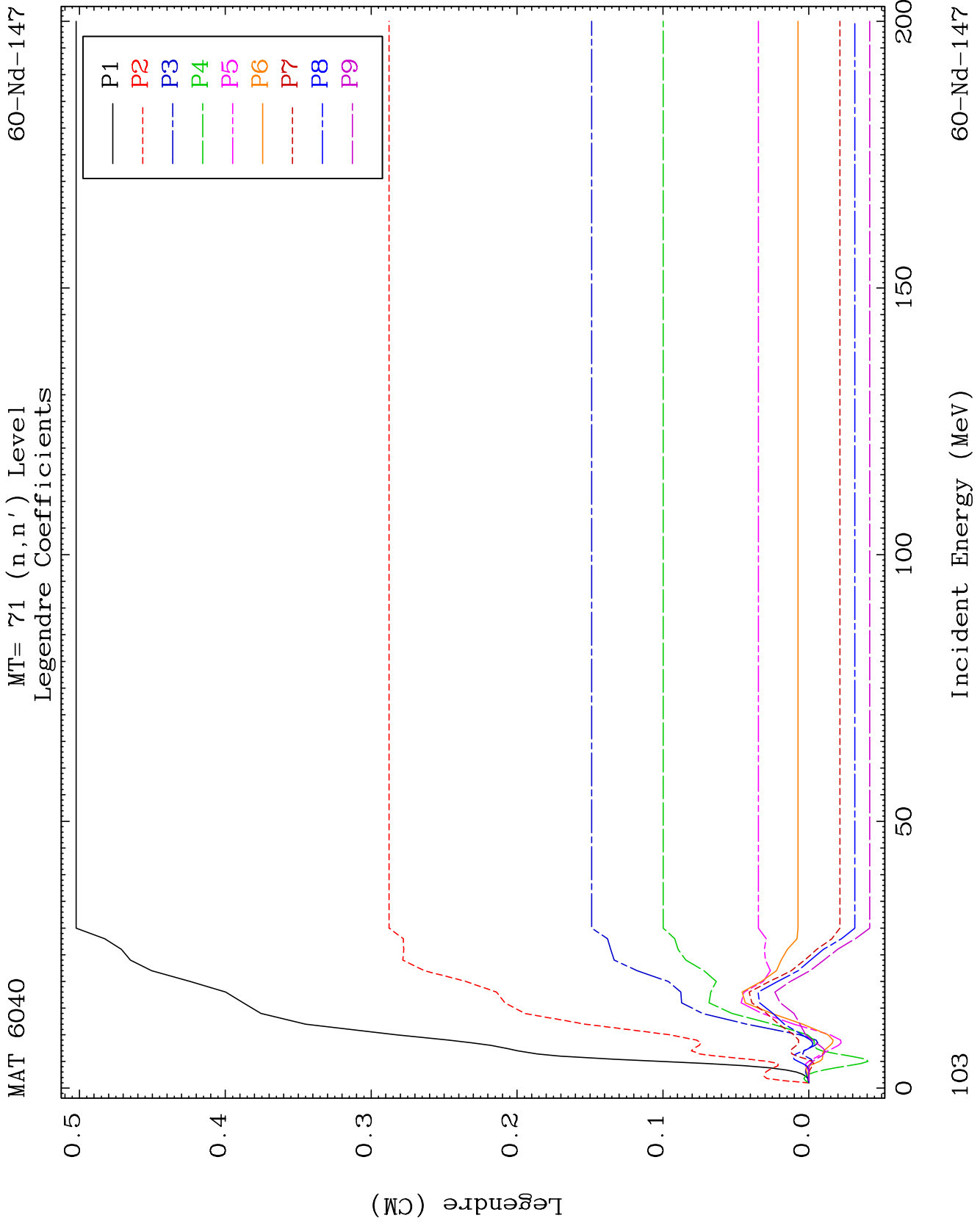
60-Nd-147



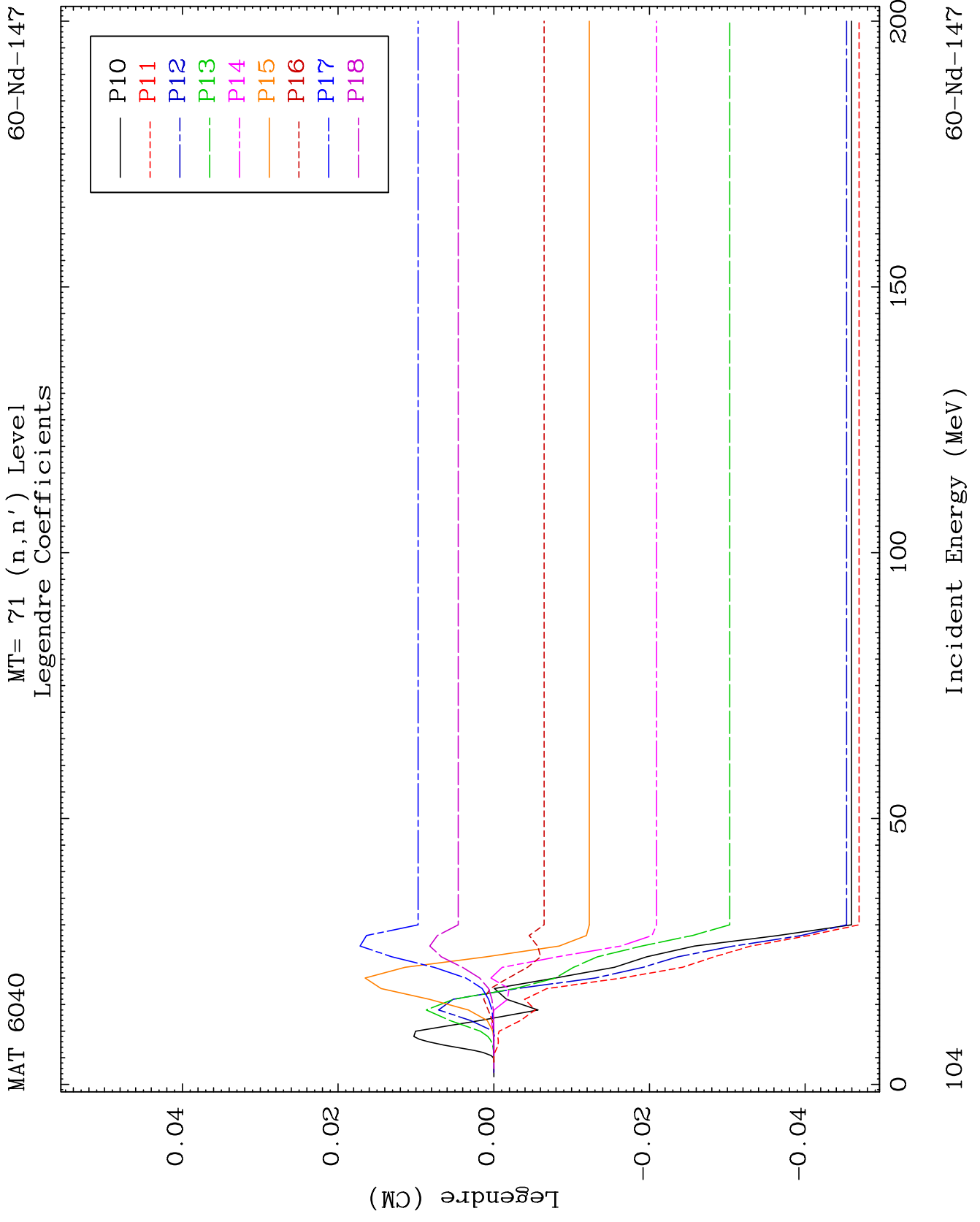
102

Incident Energy (MeV)

60-Nd-147



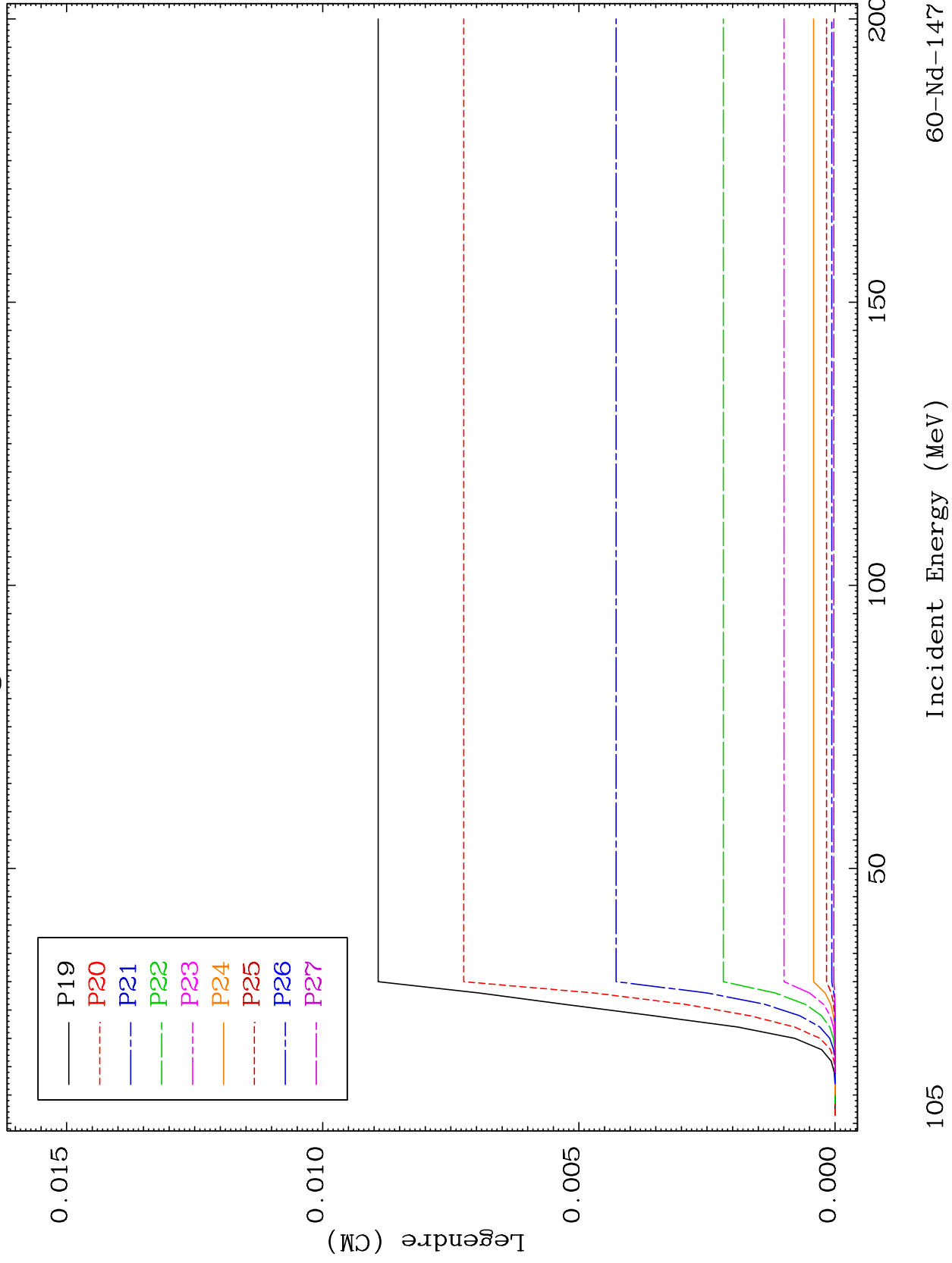




MAT 6040

MT= 71 (n,n') Level  
Legendre Coefficients

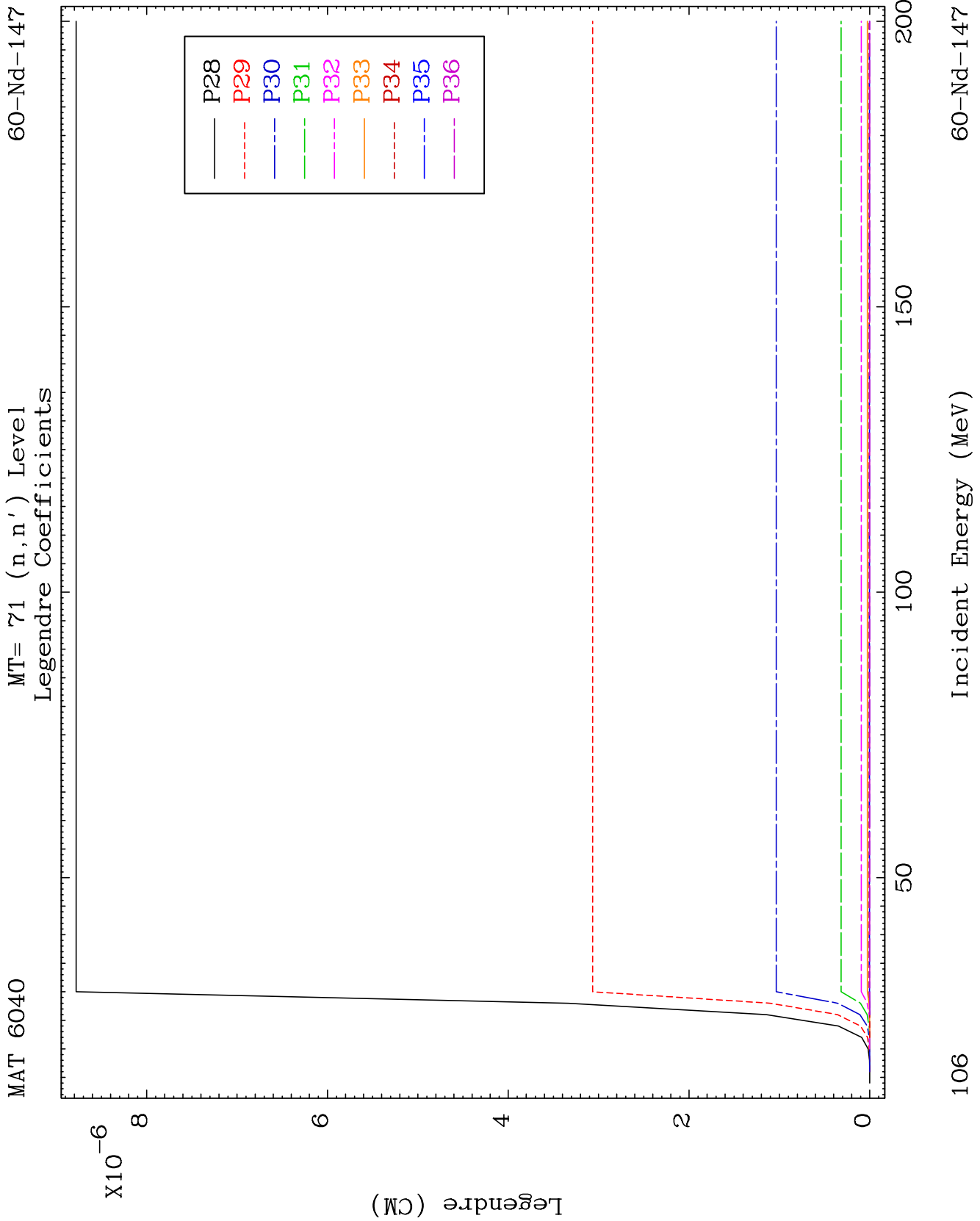
60-Nd-147



105

Incident Energy (MeV)

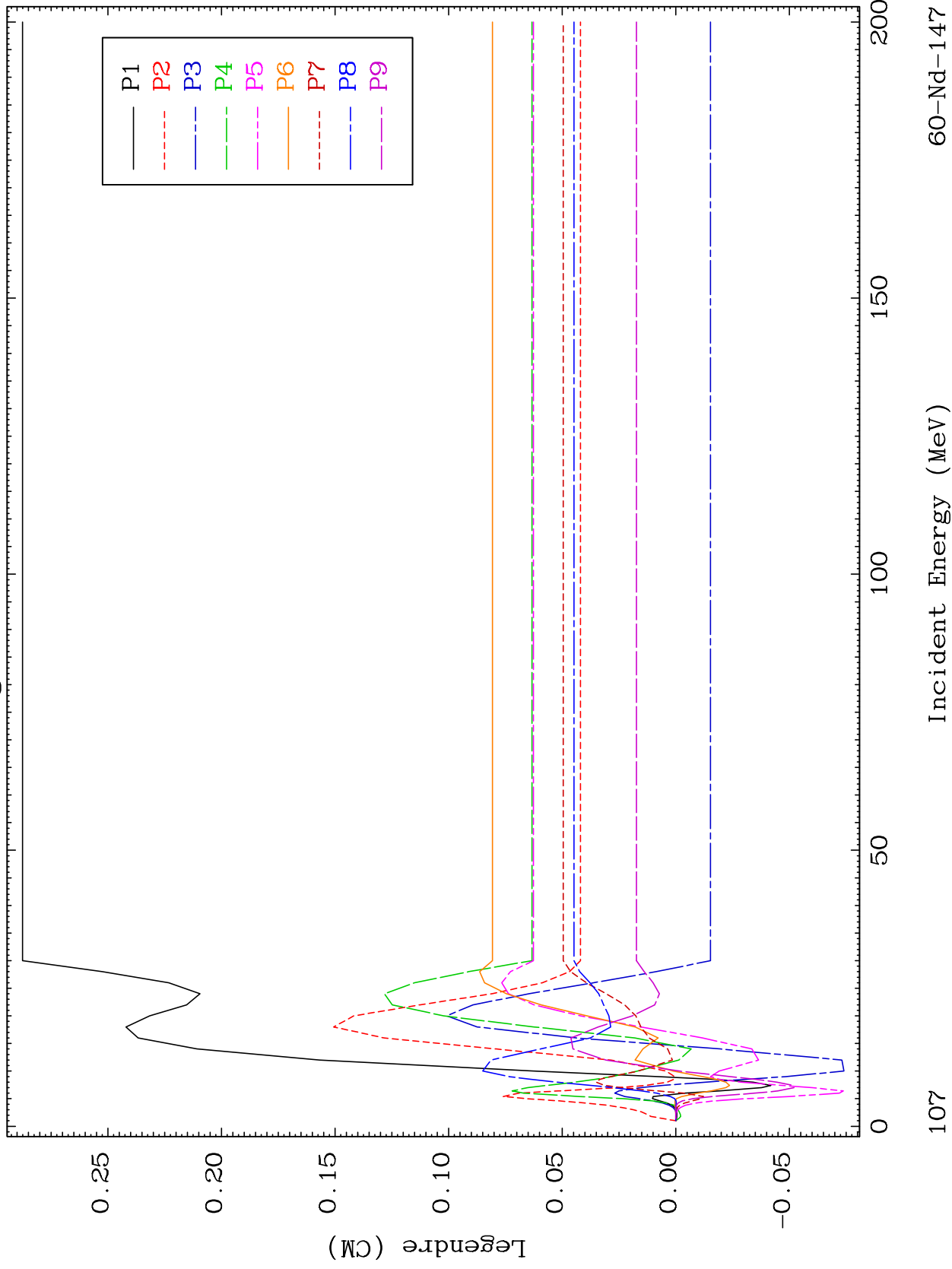
60-Nd-147



MAT 6040

MT= 72 (n,n') Level  
Legendre Coefficients

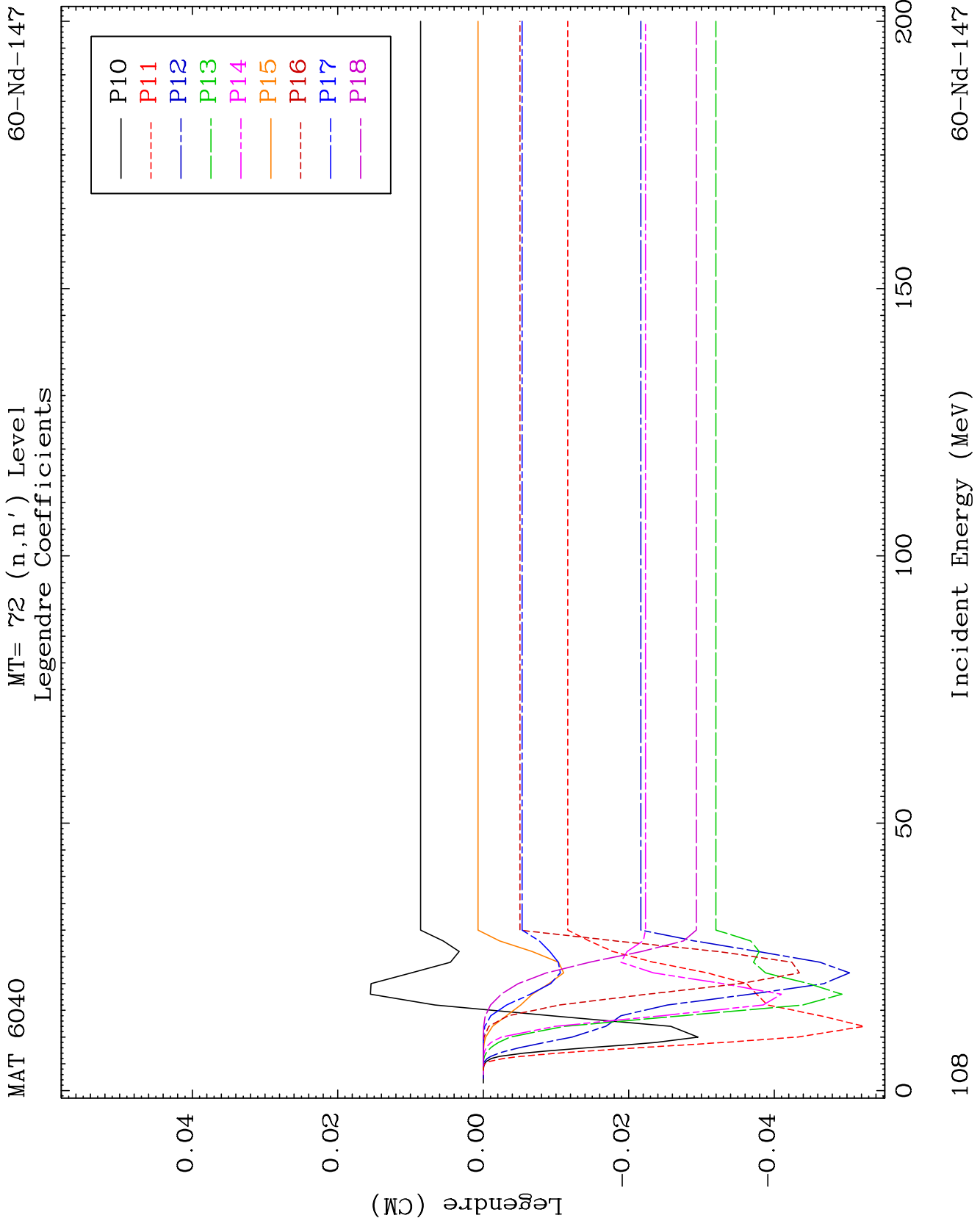
60-Nd-147



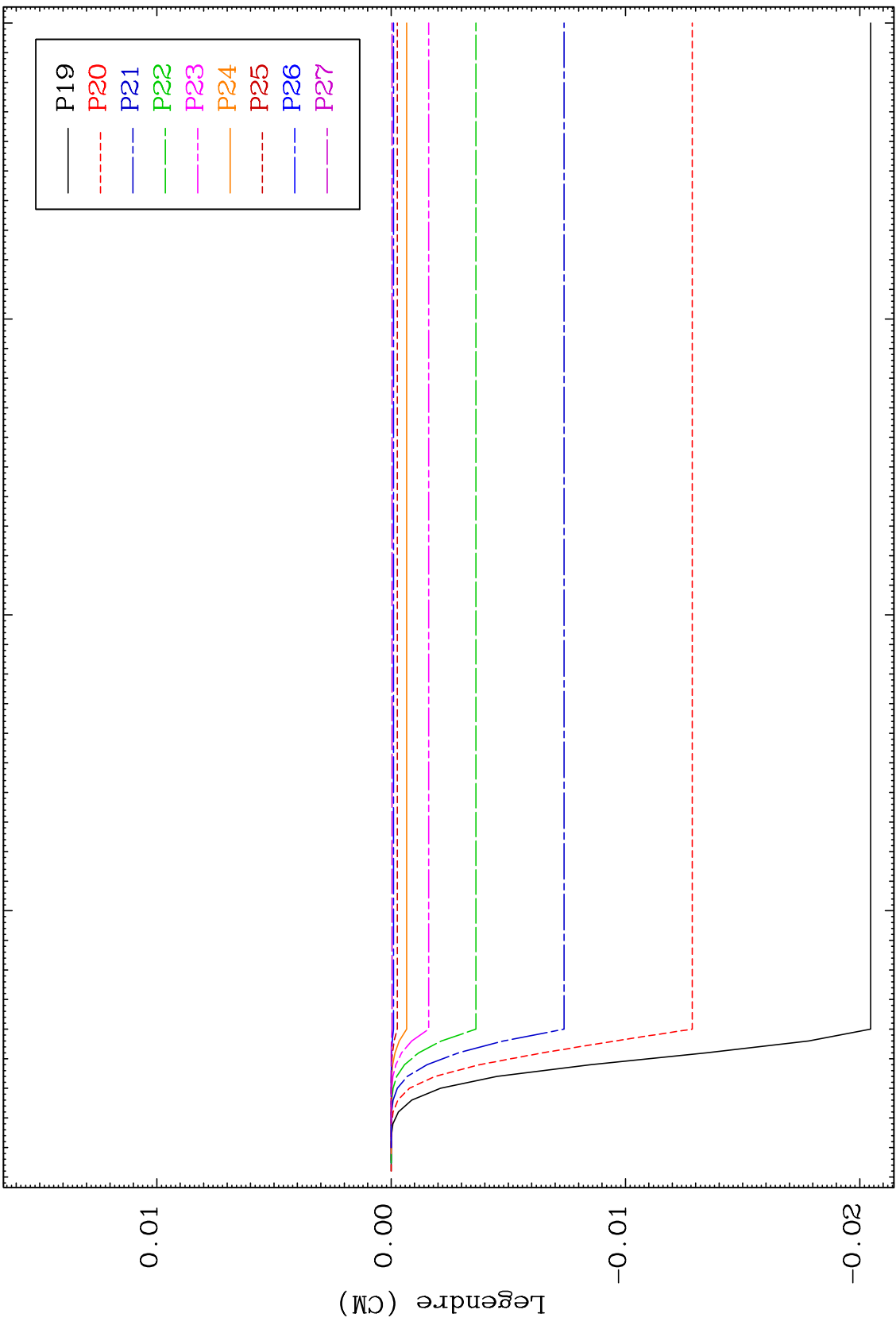
60-Nd-147

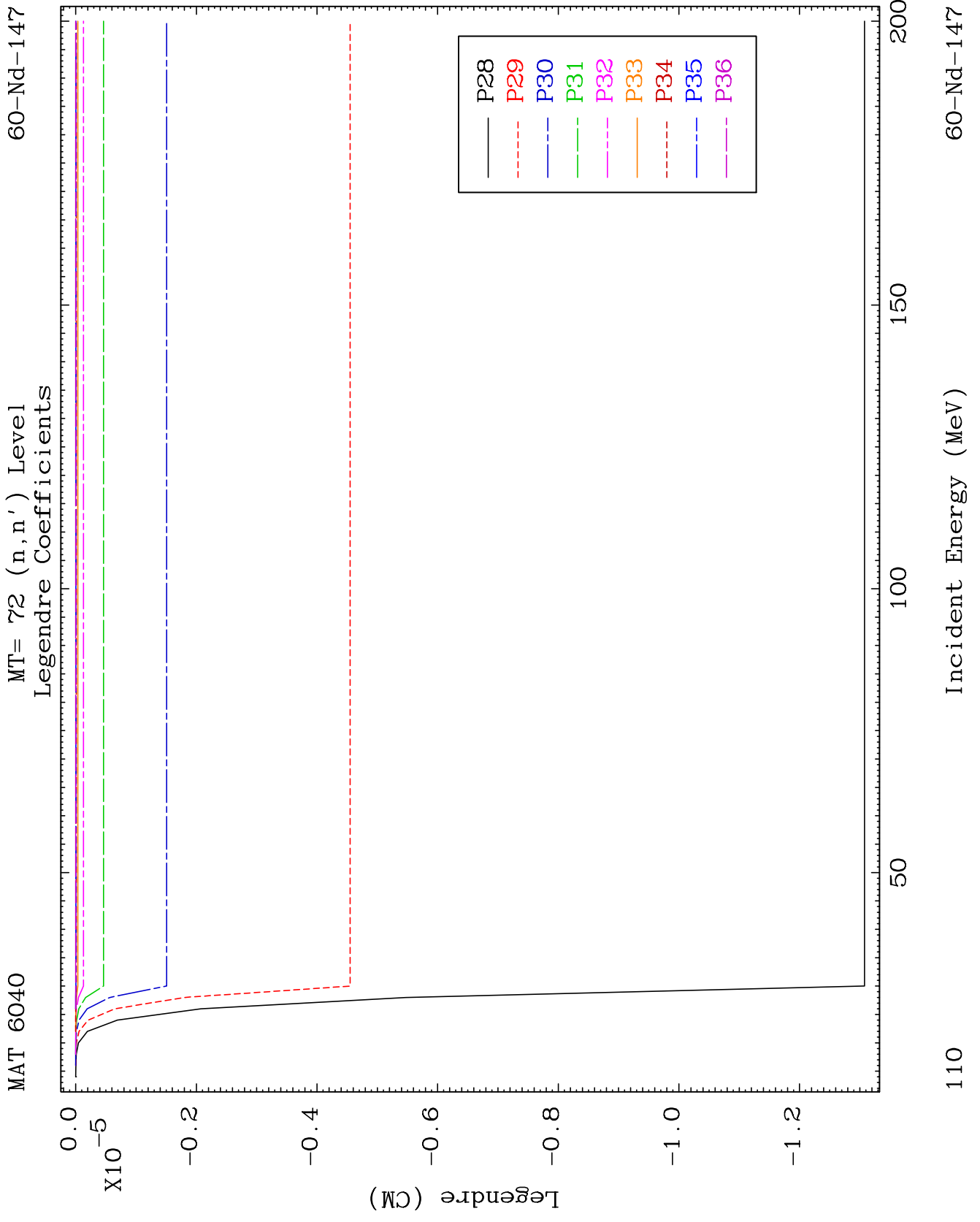
Incident Energy (MeV)

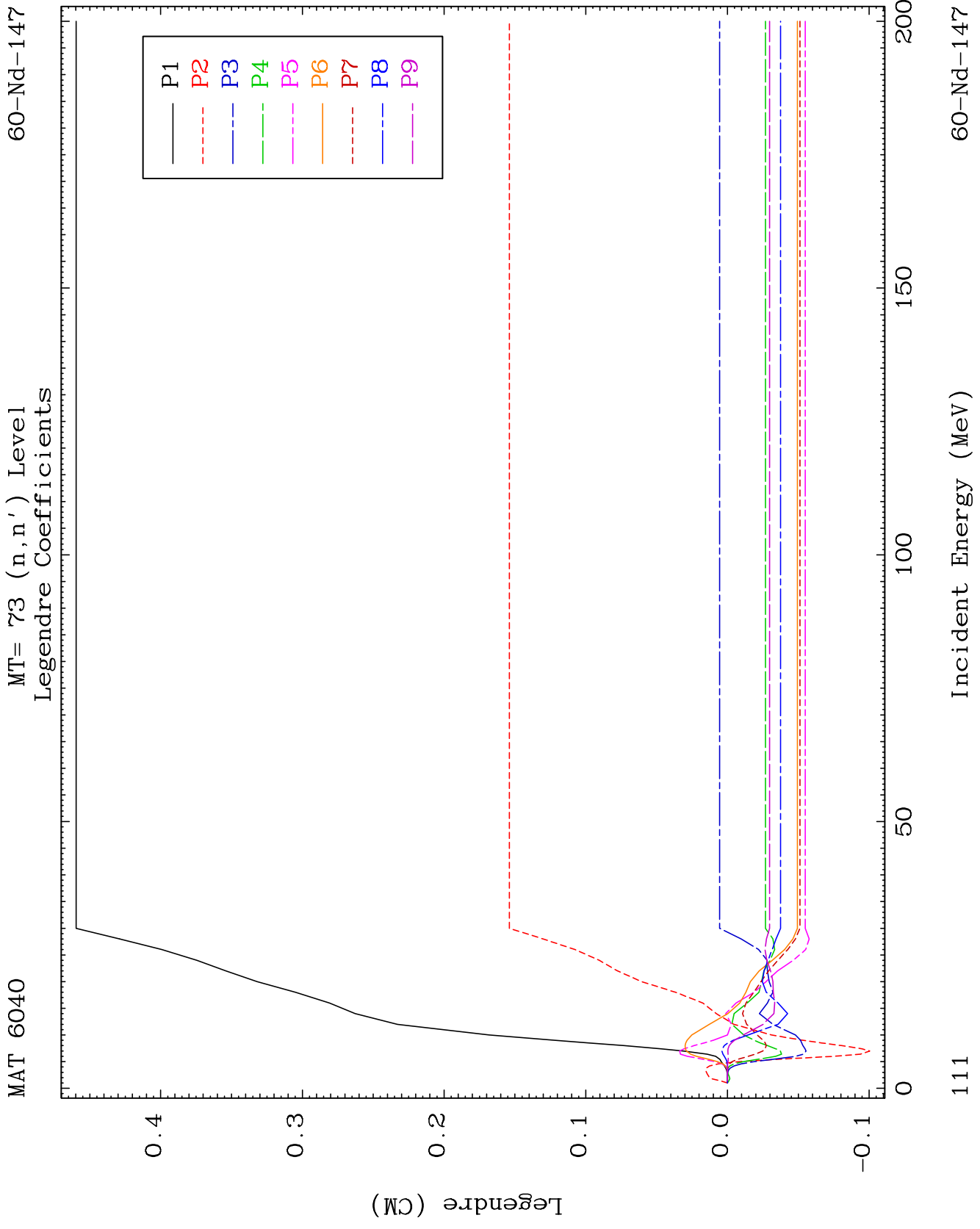
107



MAT 6040 MT= 72 (n,n') Level Legendre Coefficients 60-Nd-147





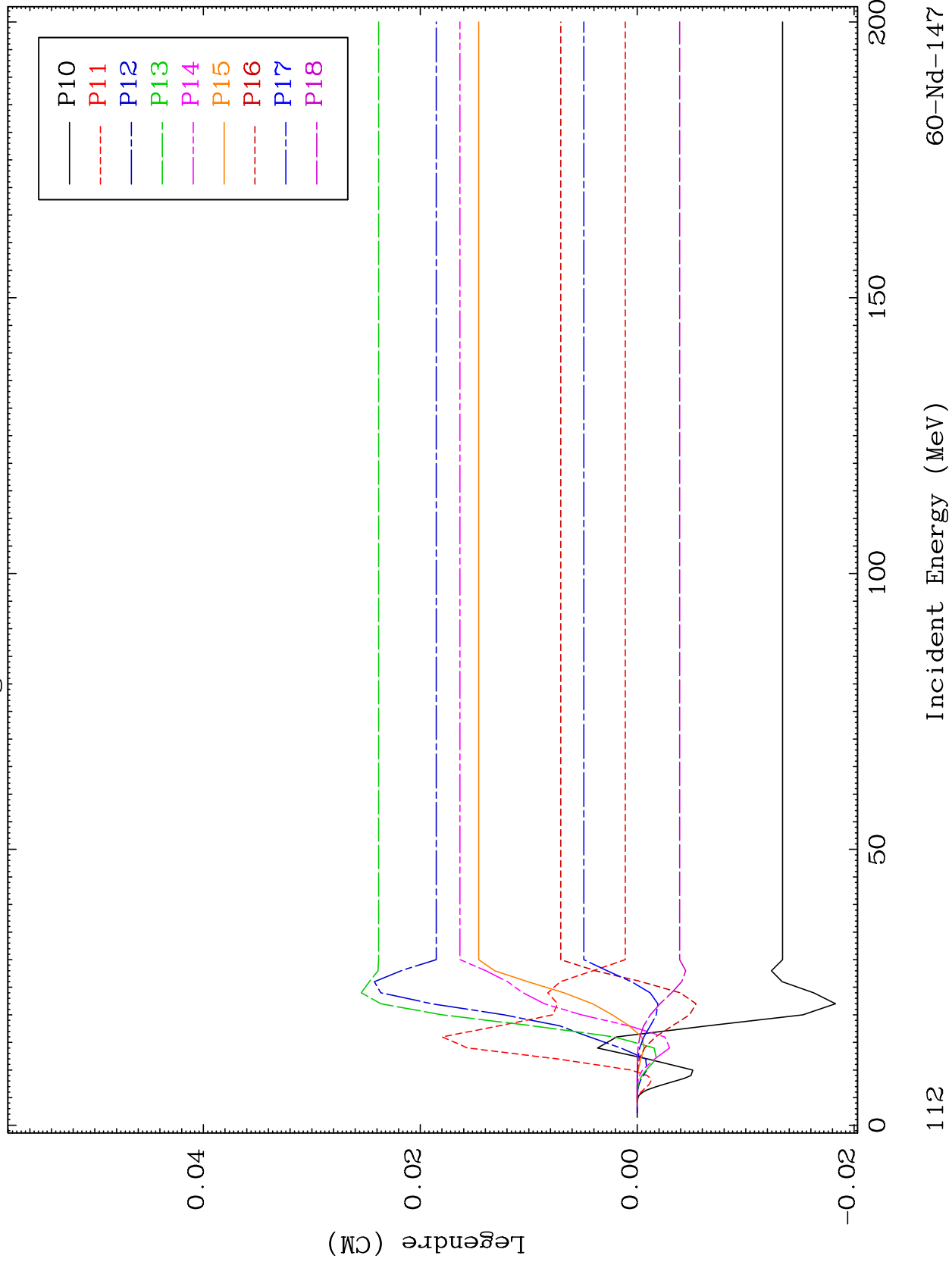




MAT 6040

MT= 73 (n,n') Level  
Legendre Coefficients

60-Nd-147



112

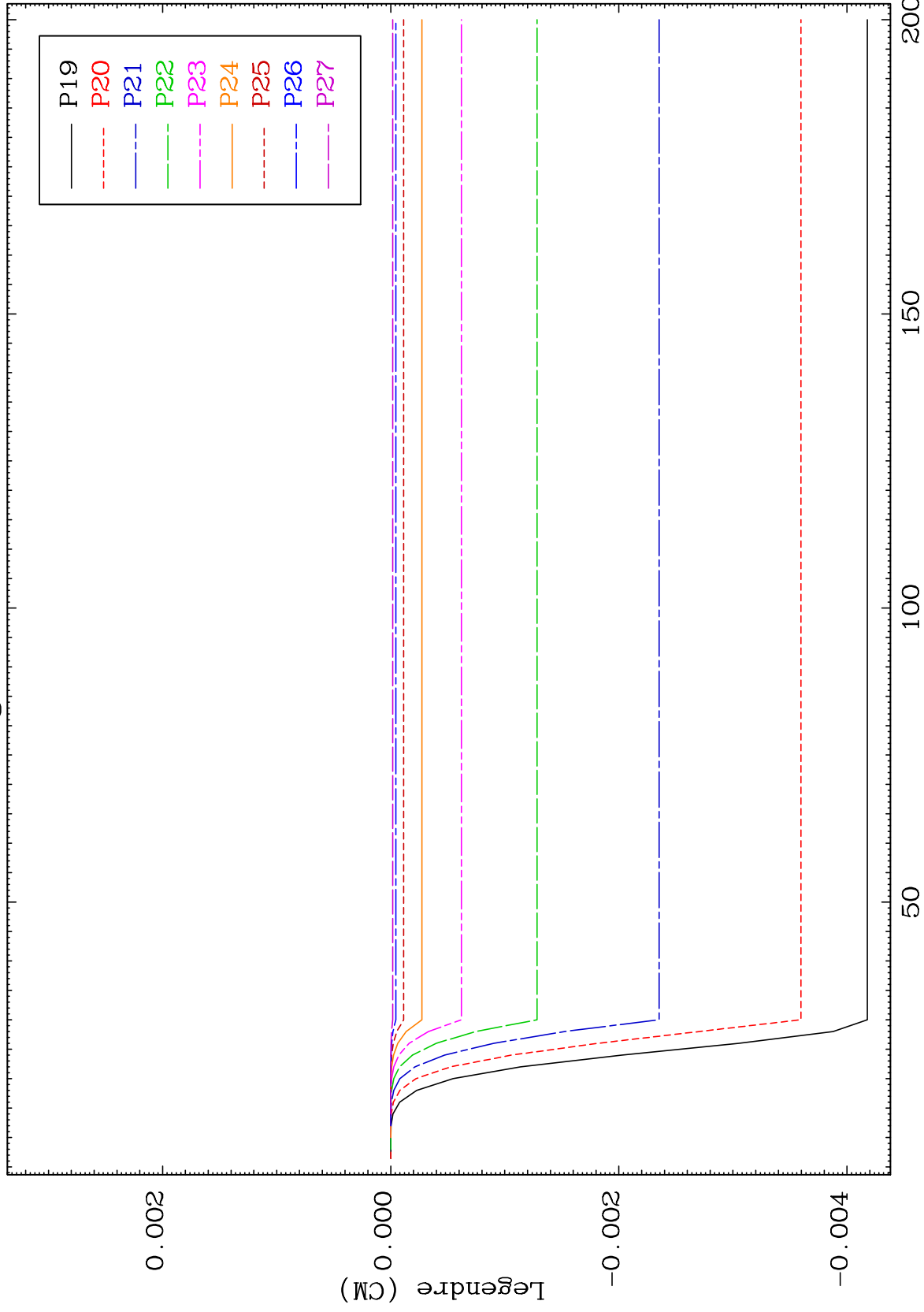
Incident Energy (MeV)

60-Nd-147

MAT 6040

MT= 73 (n,n') Level  
Legendre Coefficients

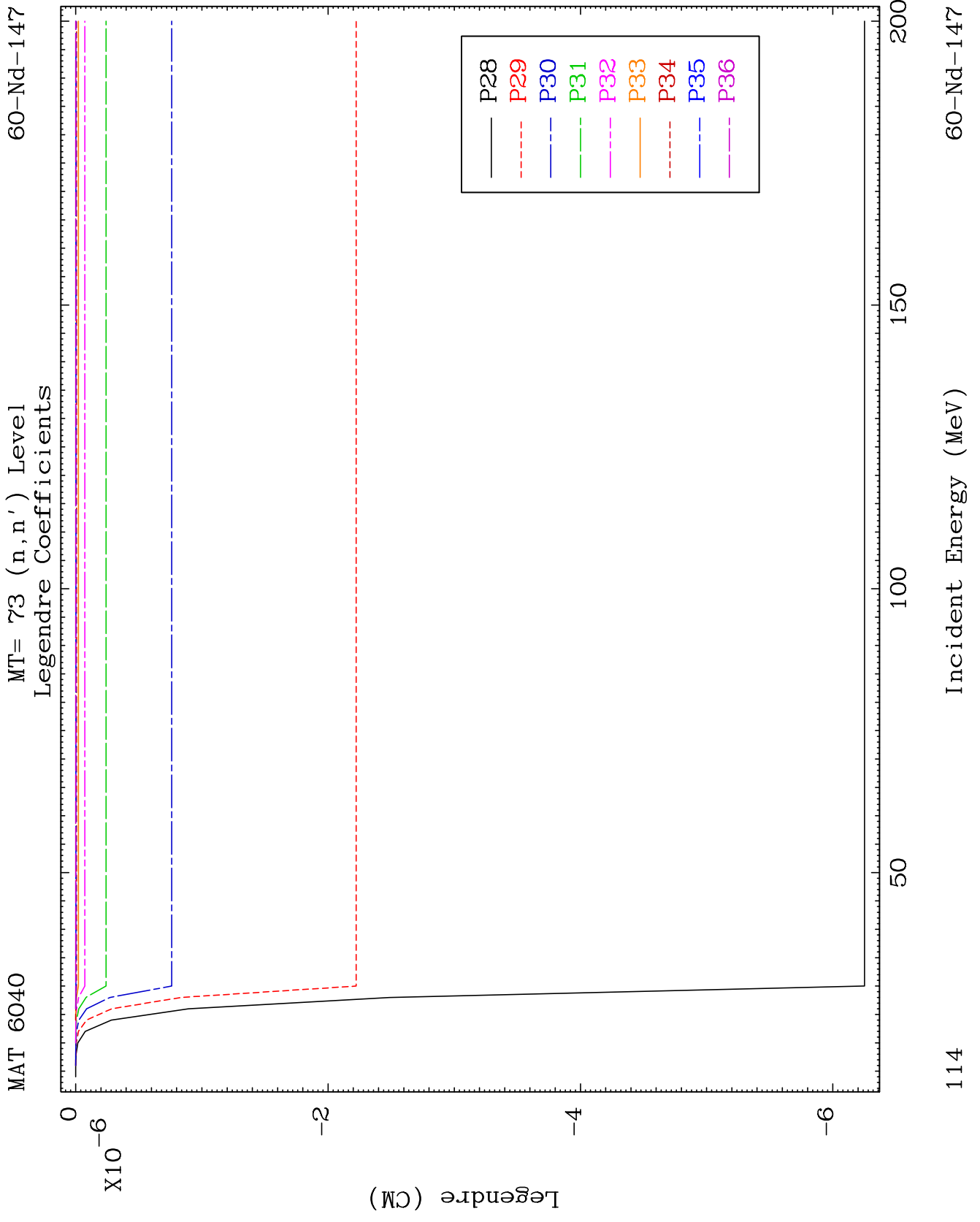
60-Nd-147

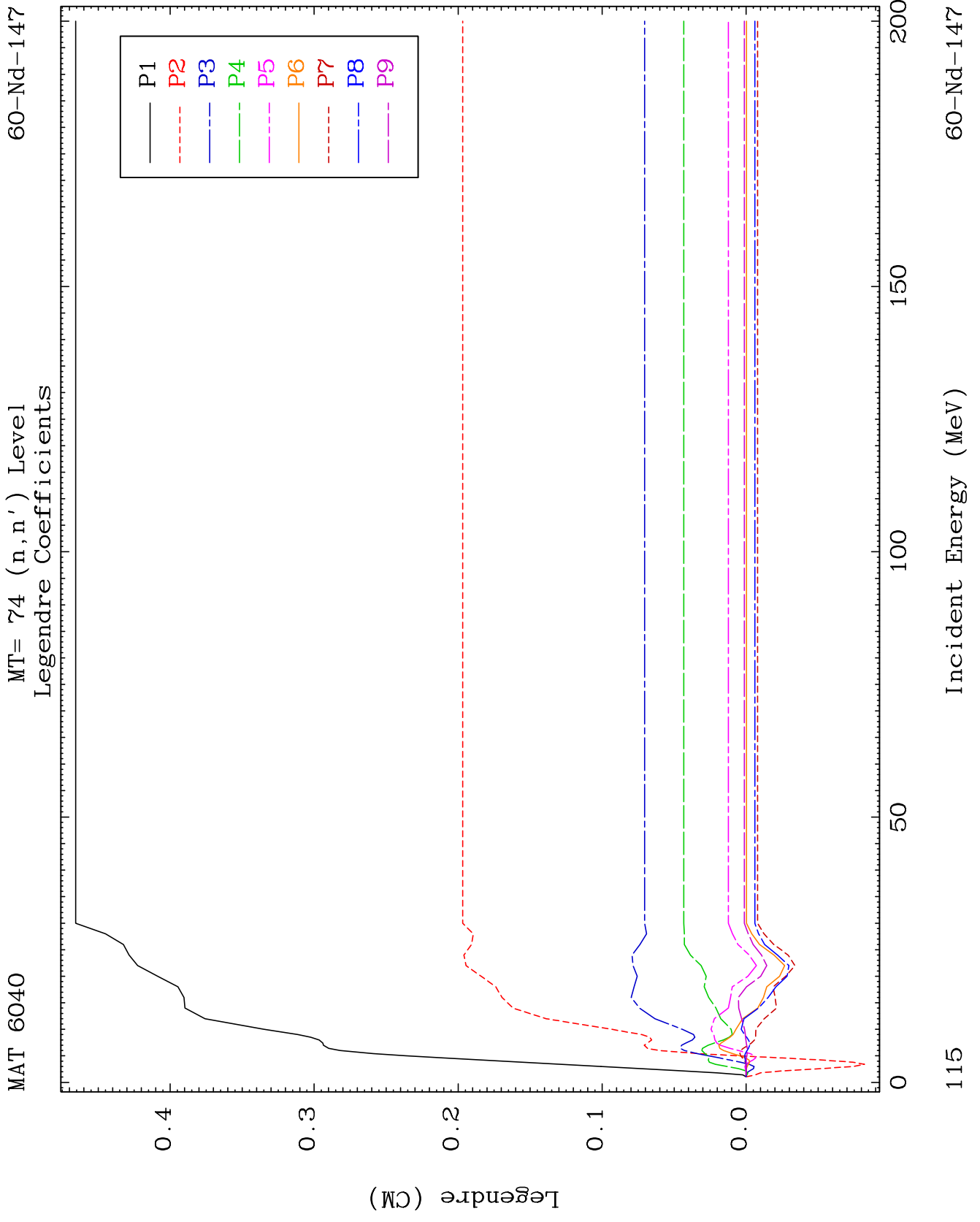


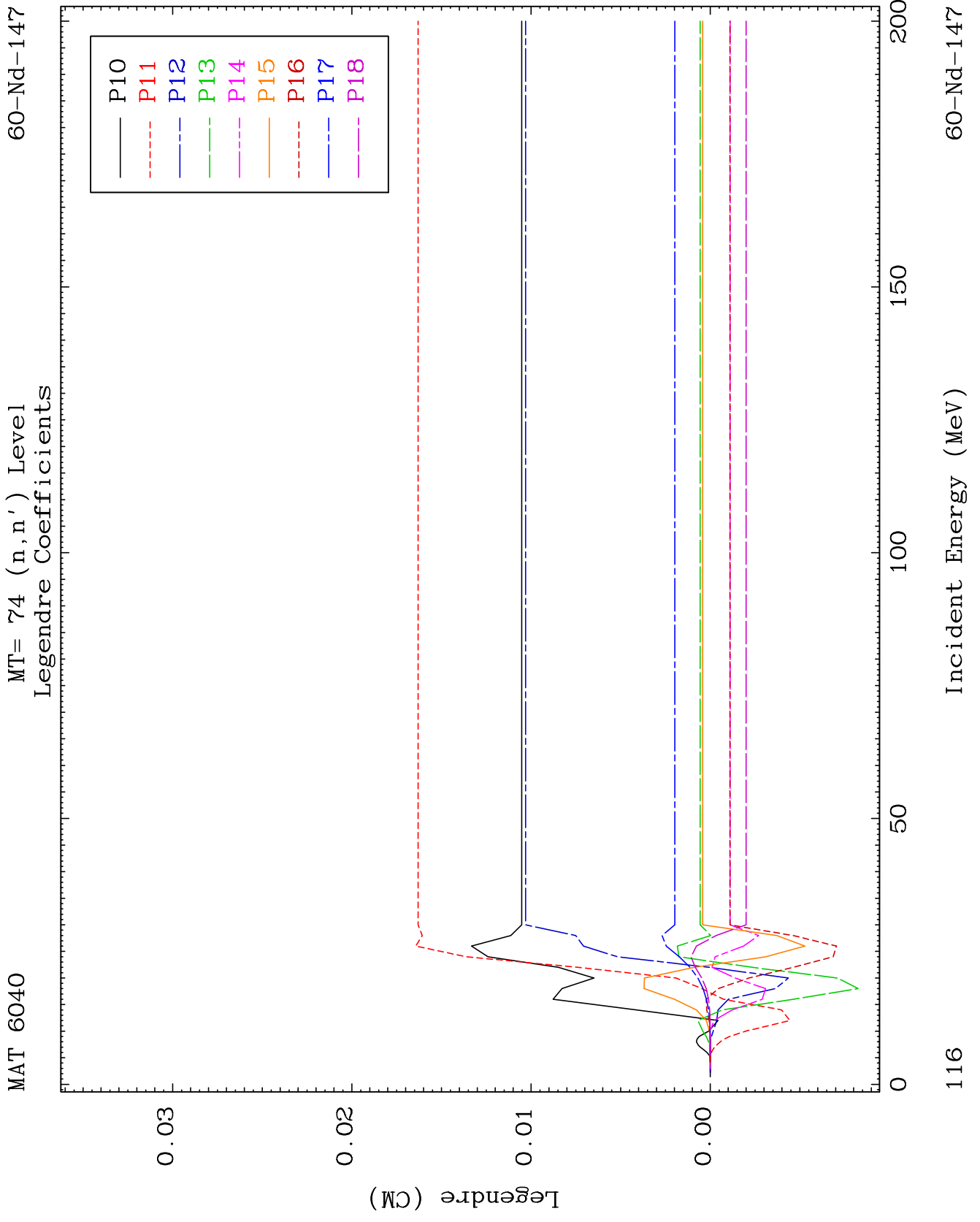
113

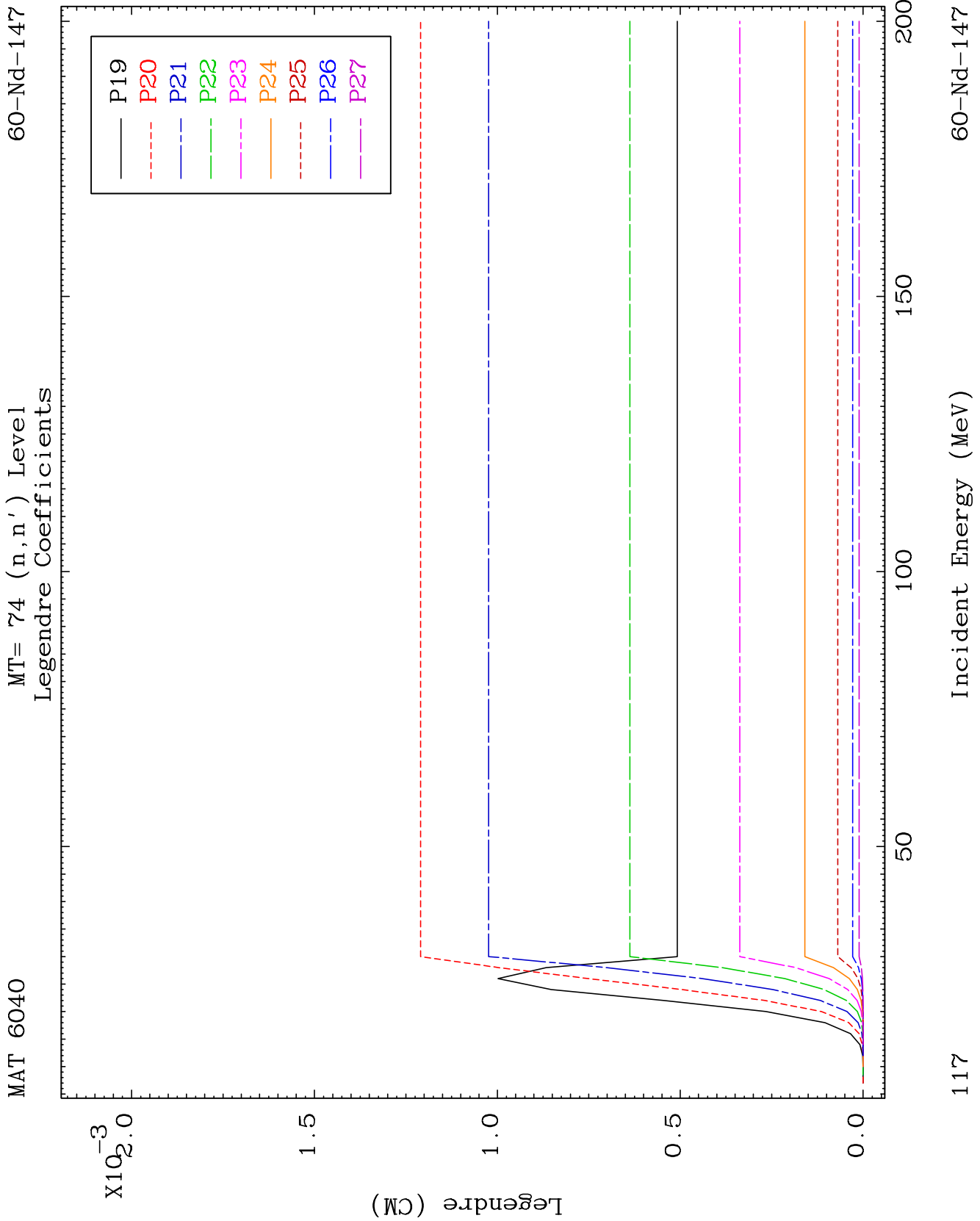
Incident Energy (MeV)

60-Nd-147





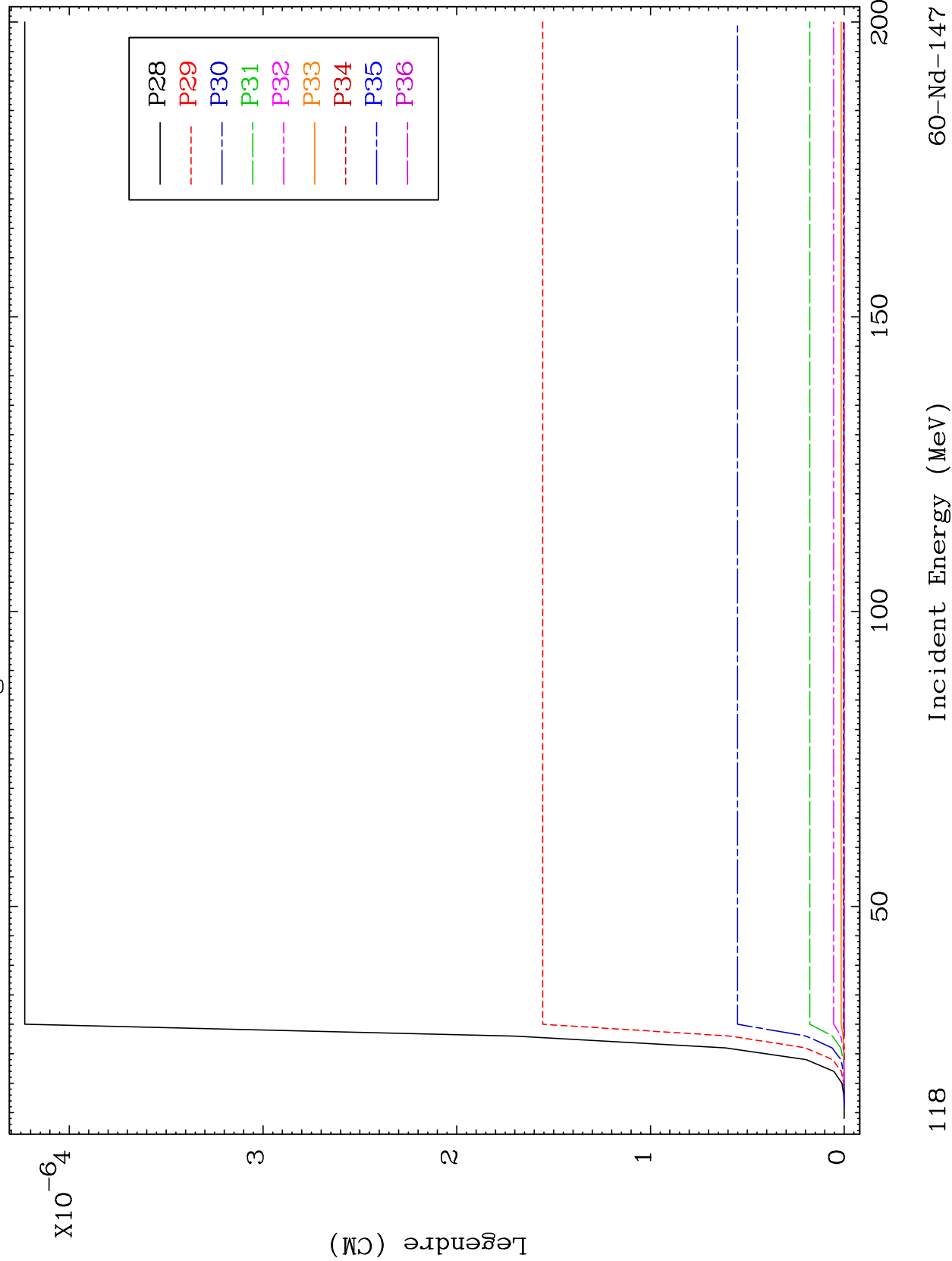




MAT 6040

MT= 74 (n,n') Level  
Legendre Coefficients

60-Nd-147



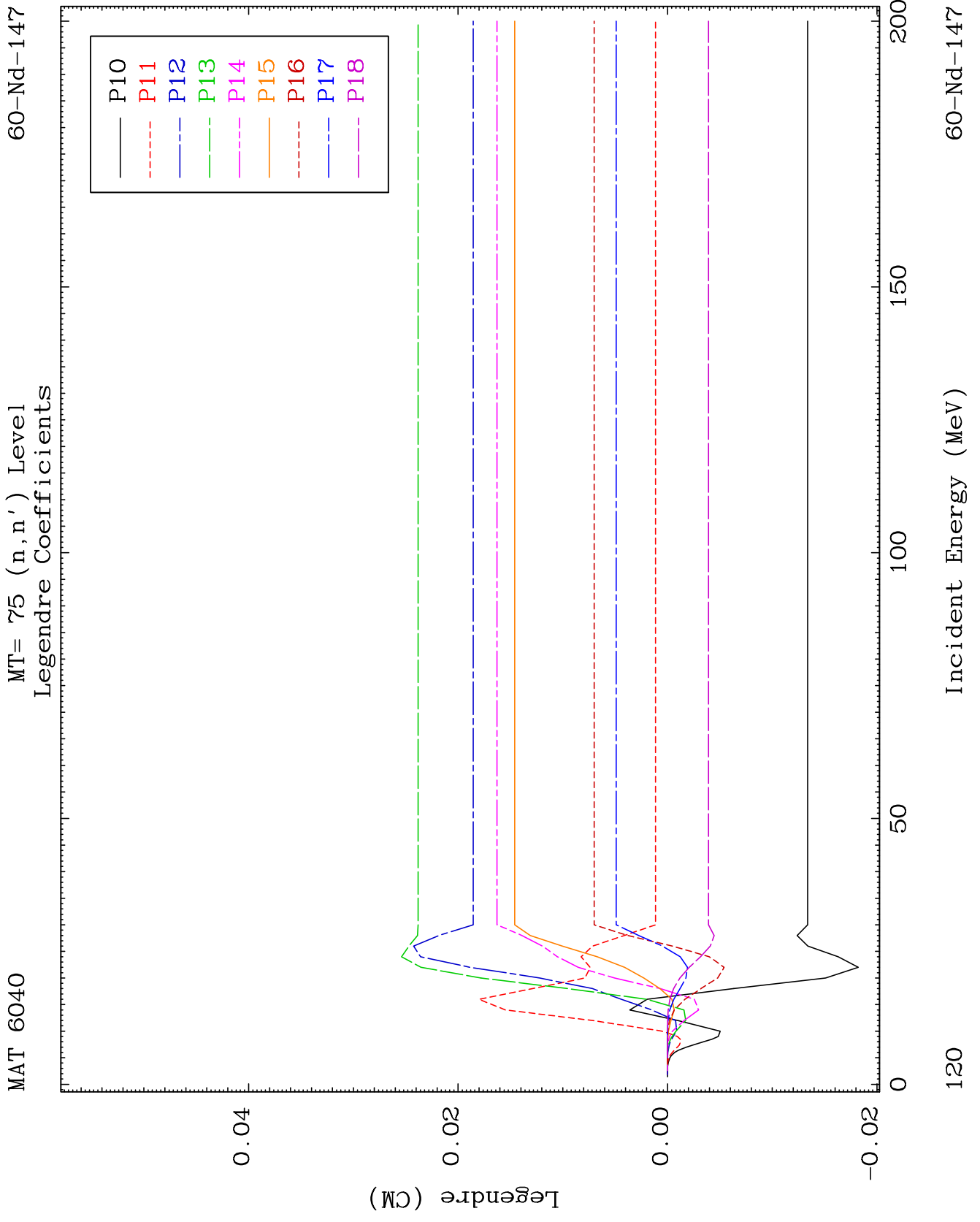
118

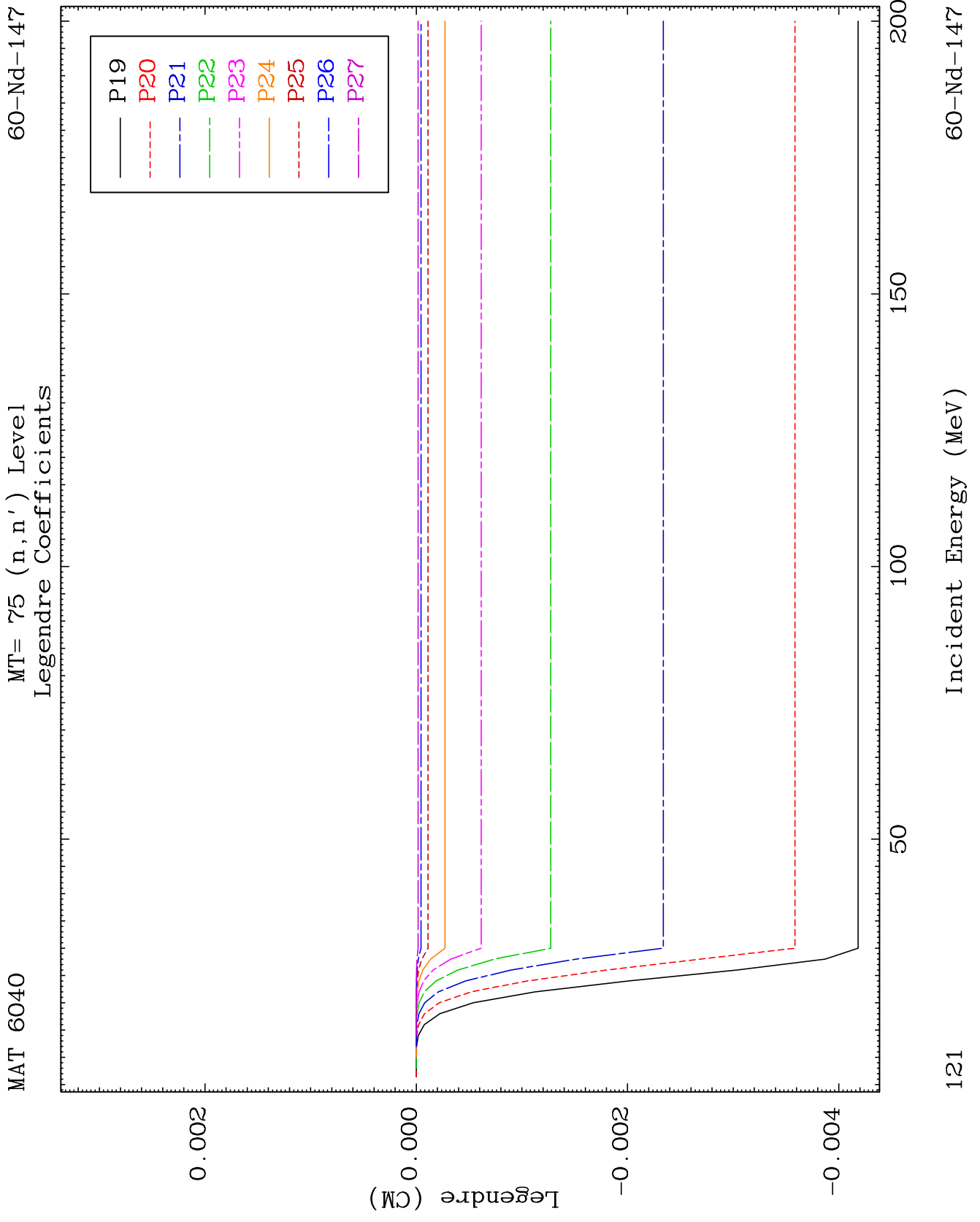
Incident Energy (MeV)

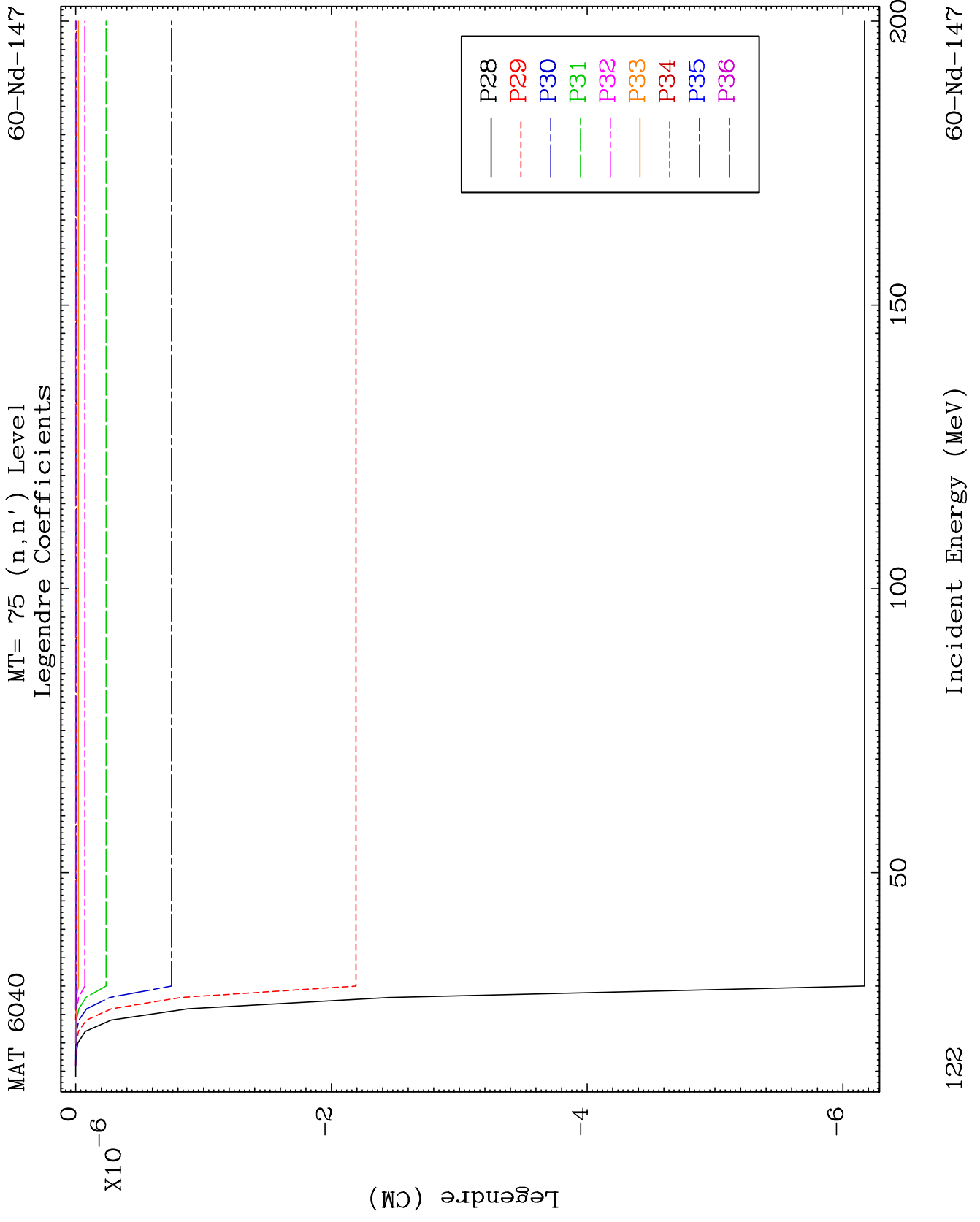
60-Nd-147

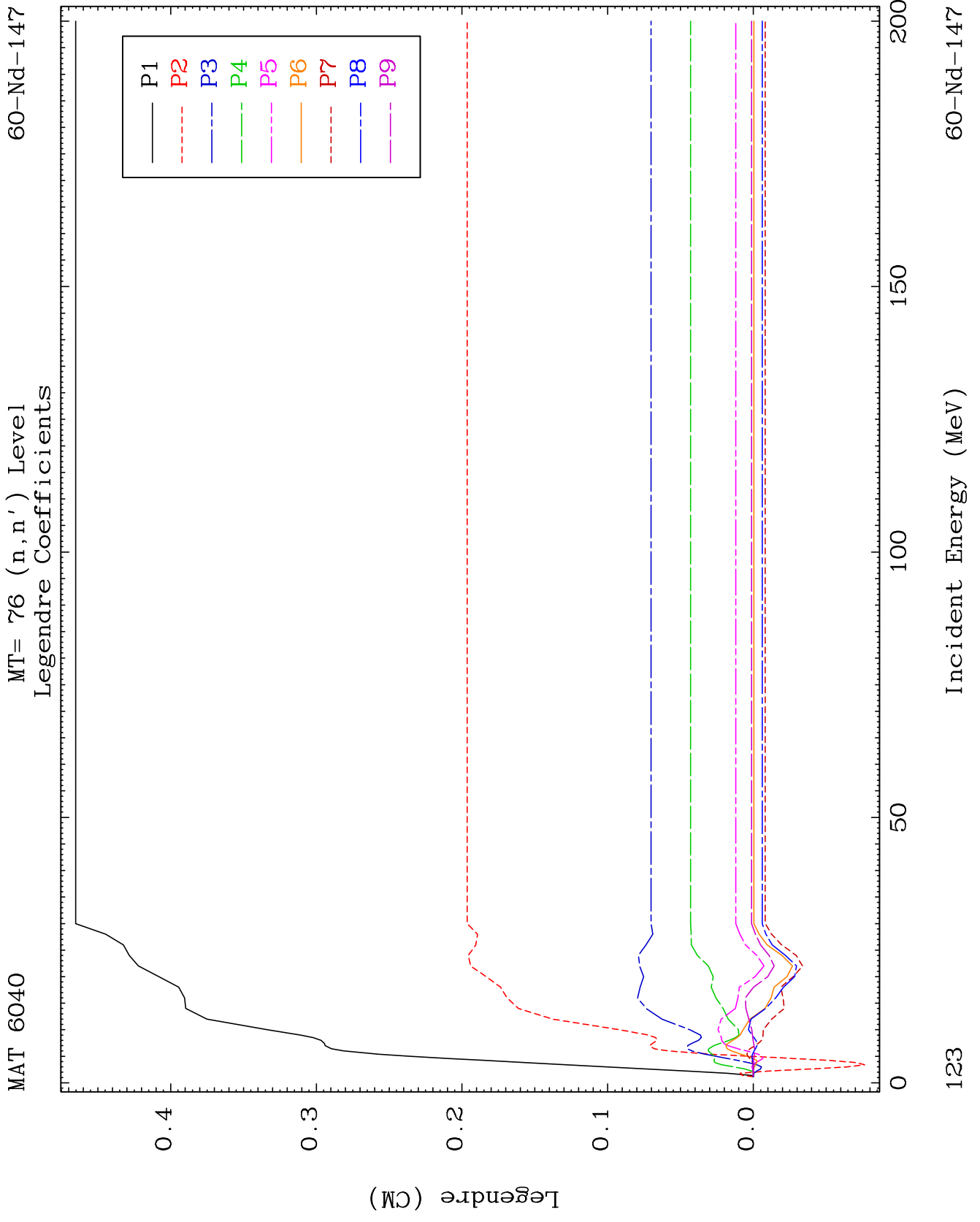


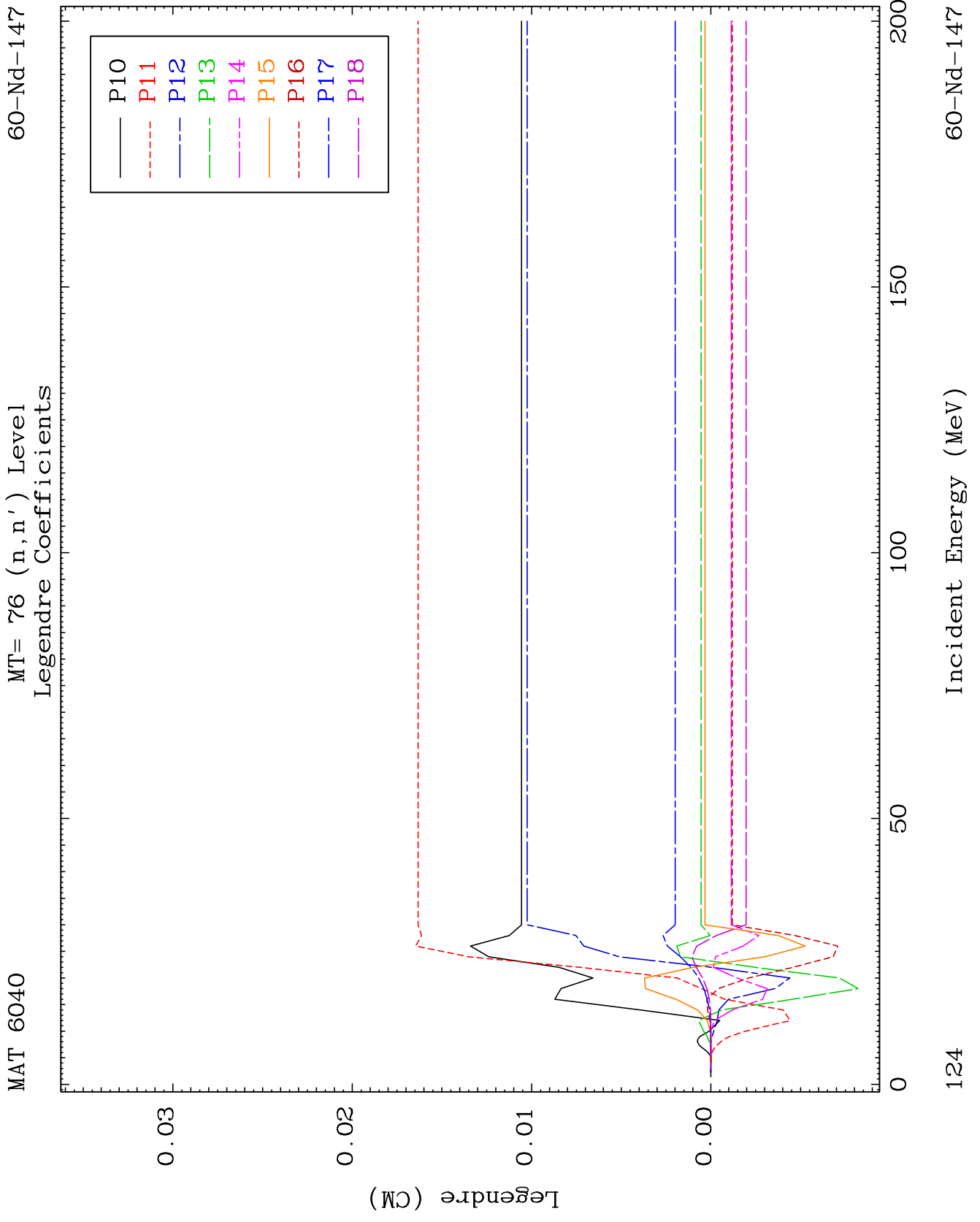


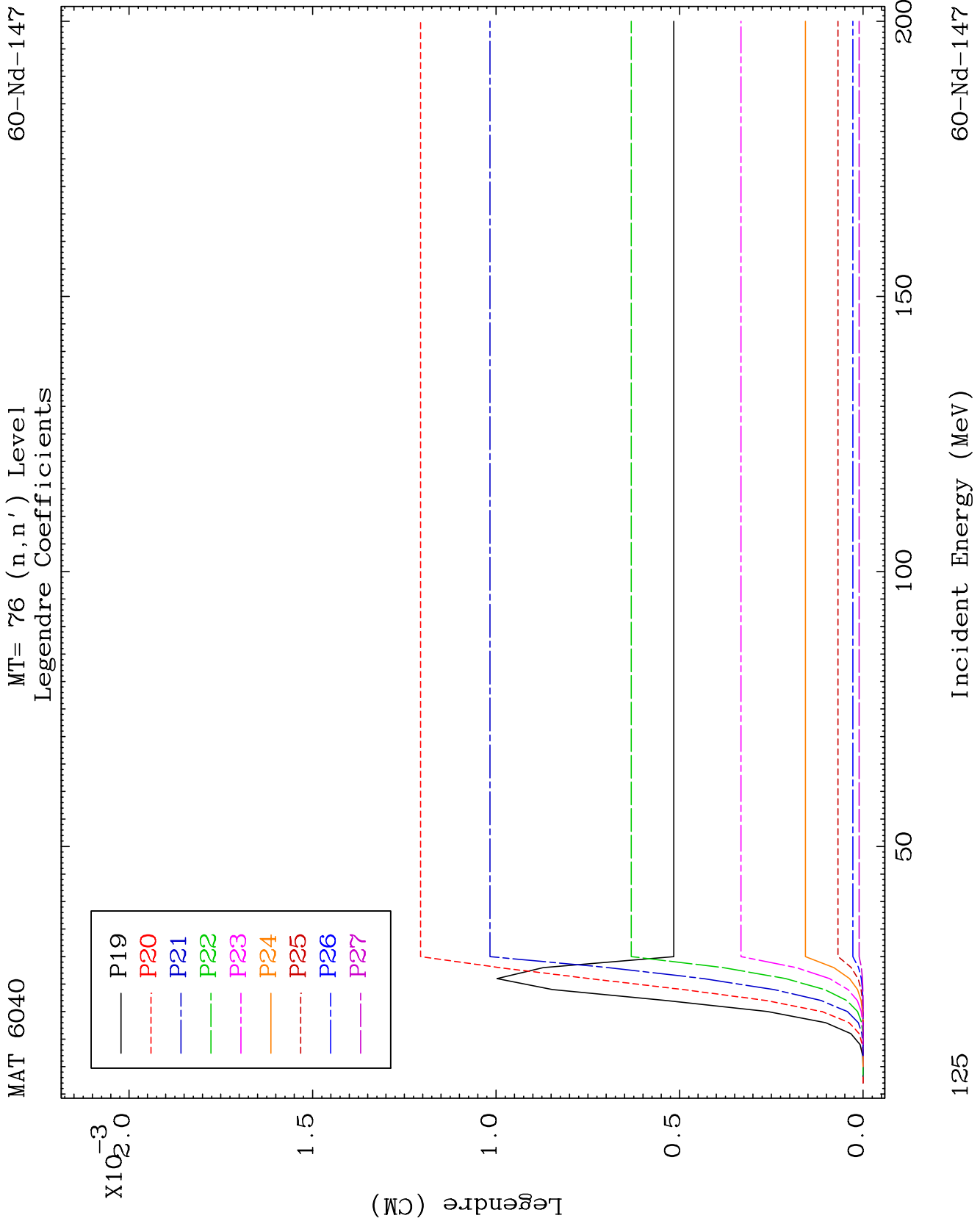


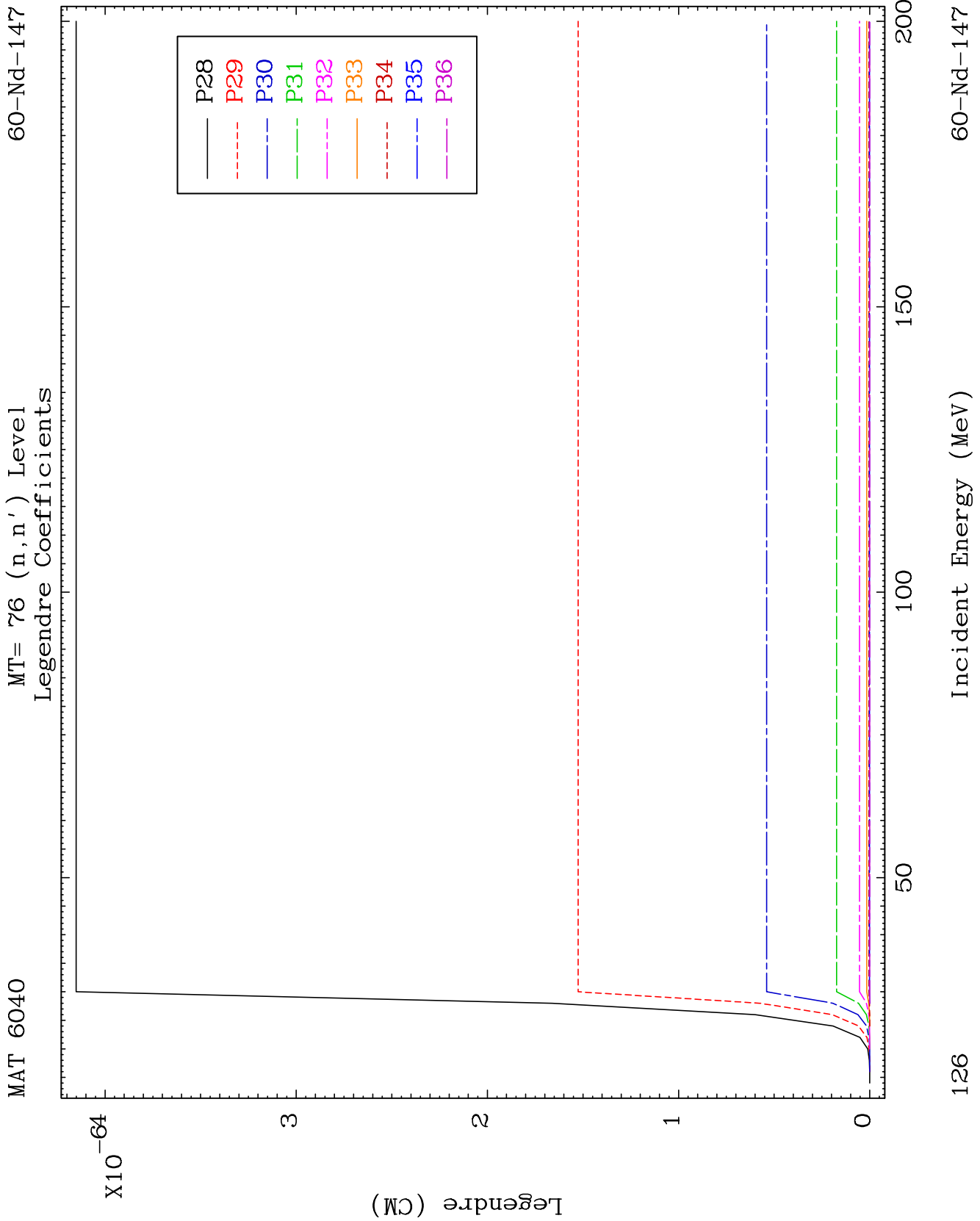


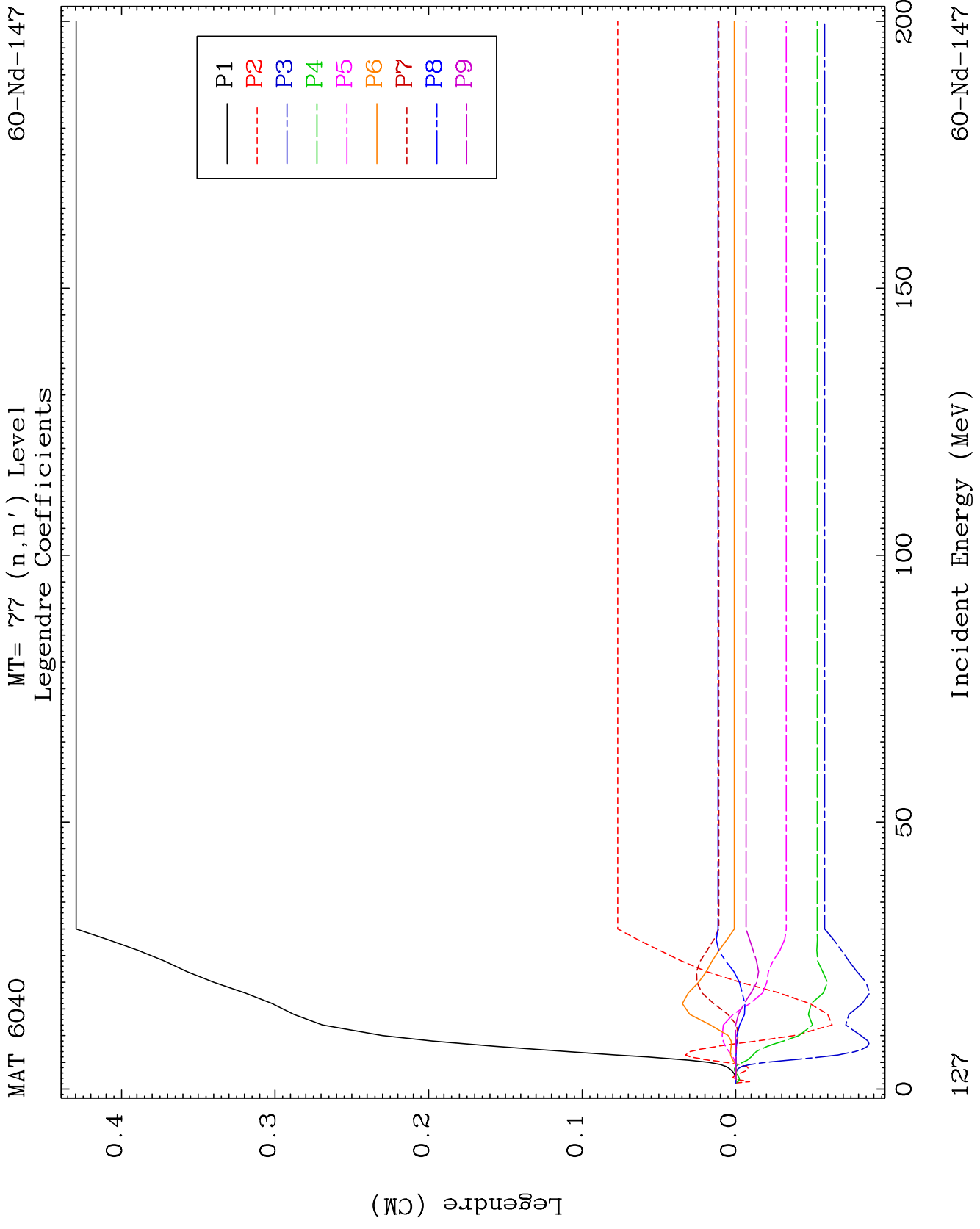










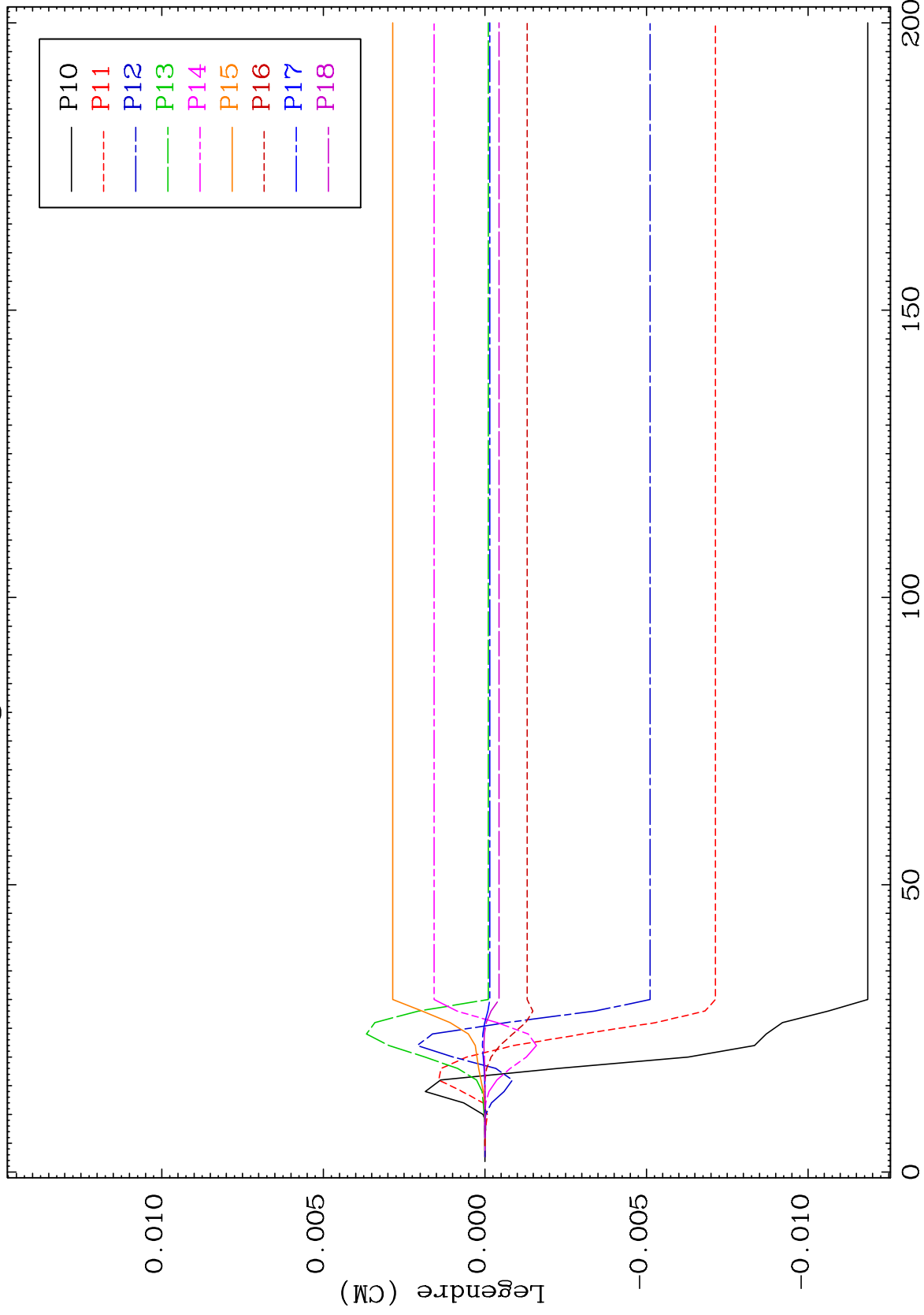




MAT 6040

MT= 77 (n,n') Level  
Legendre Coefficients

60-Nd-147



128

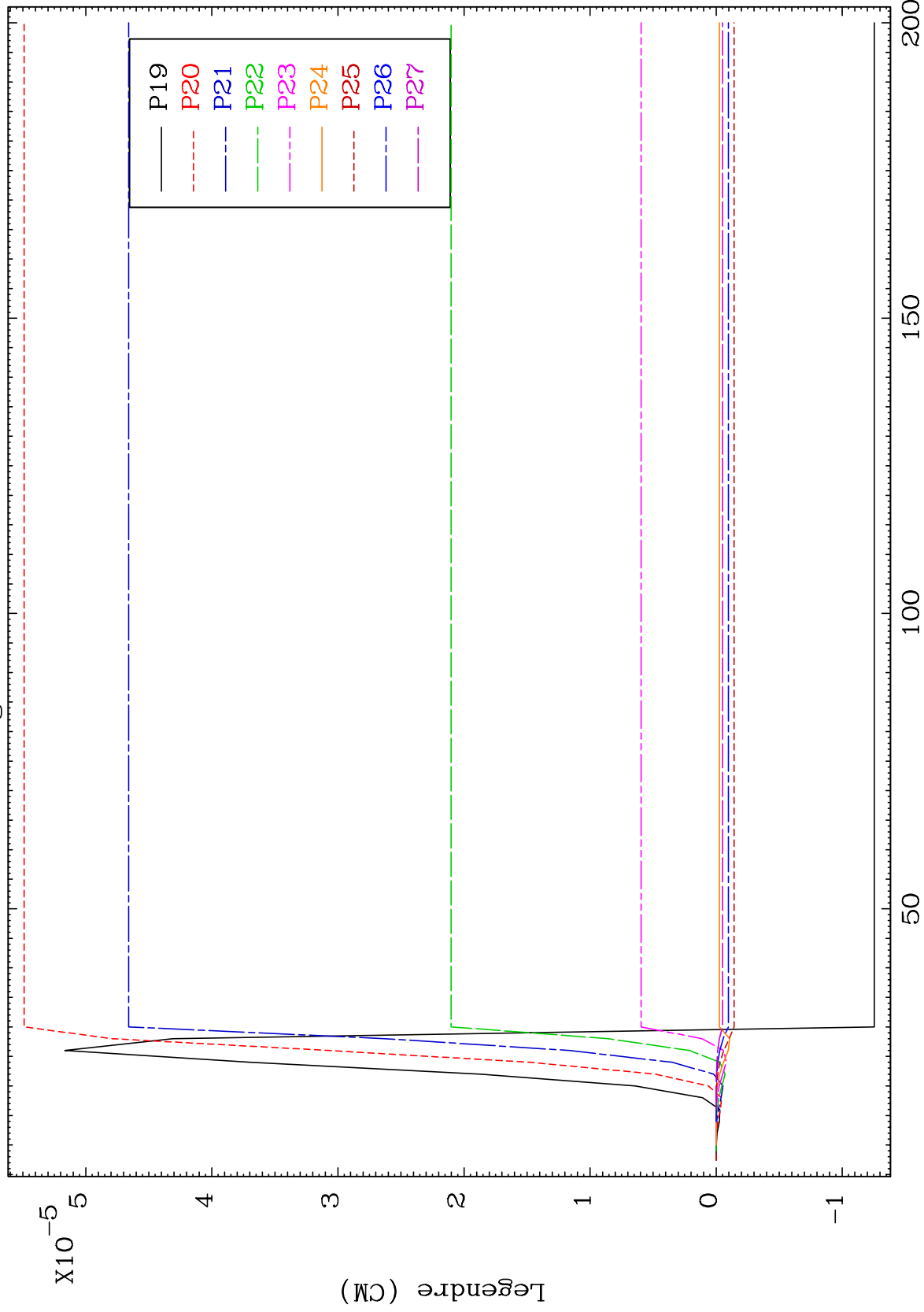
Incident Energy (MeV)

60-Nd-147

MAT 6040

MT= 77 (n,n') Level  
Legendre Coefficients

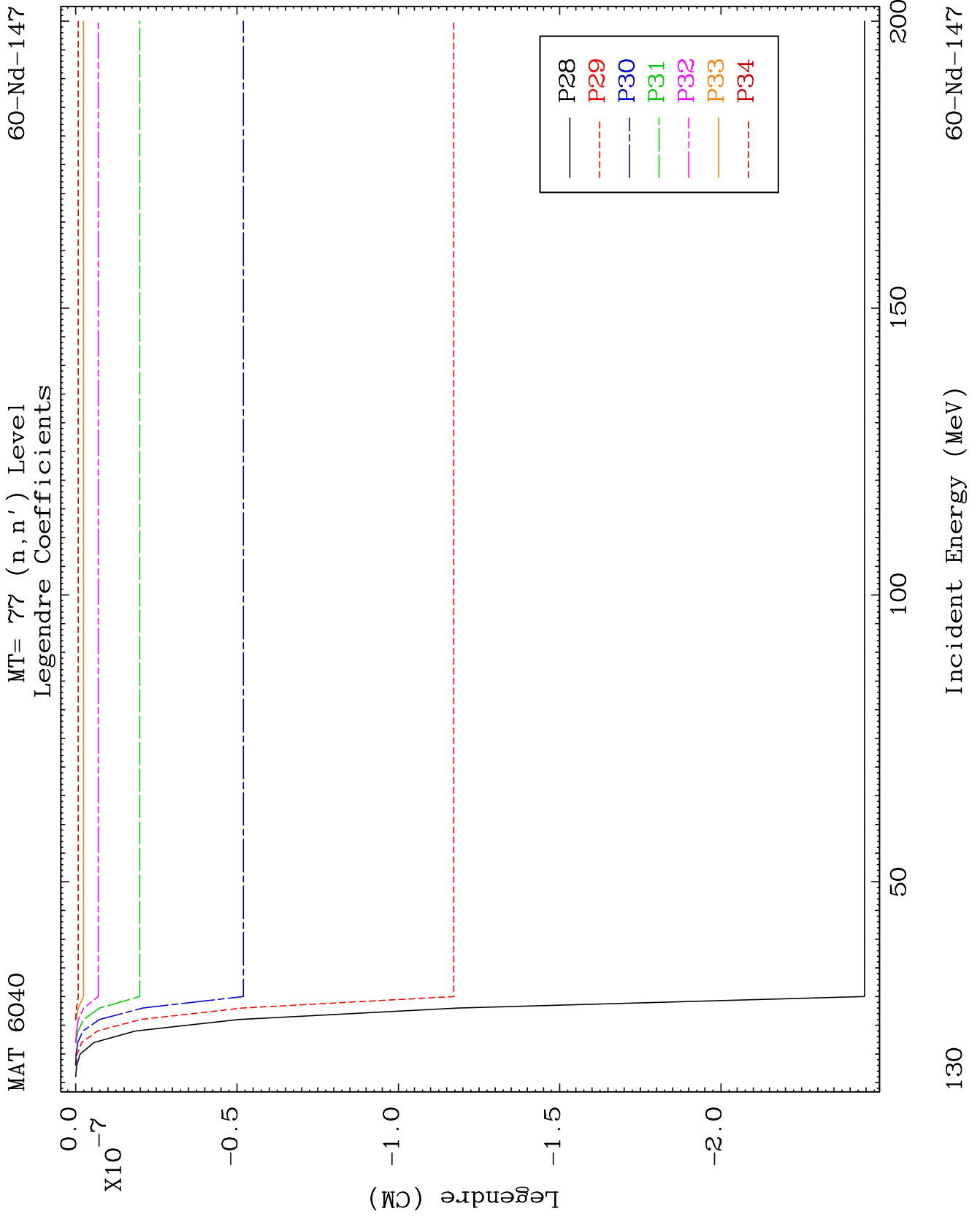
60-Nd-147

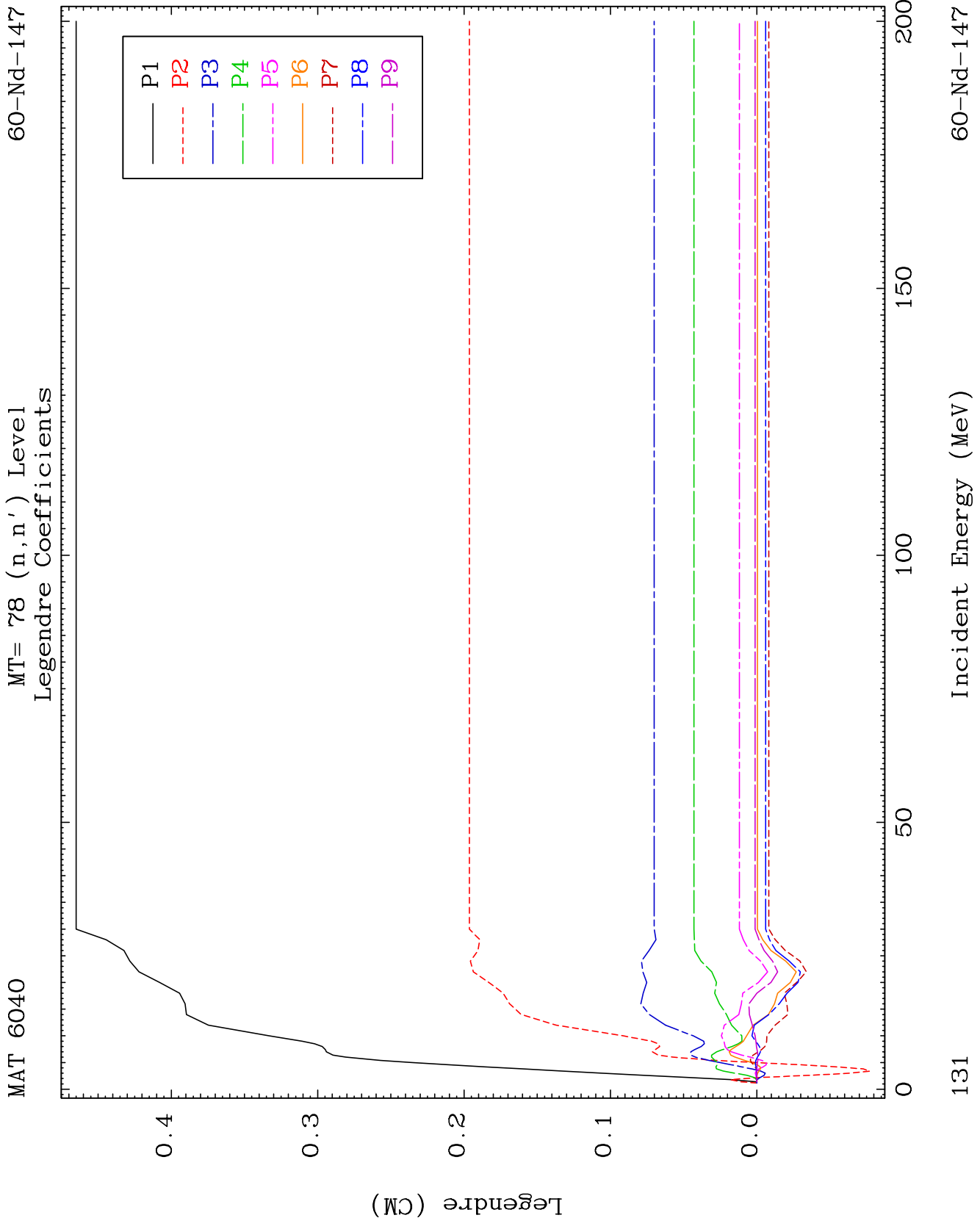


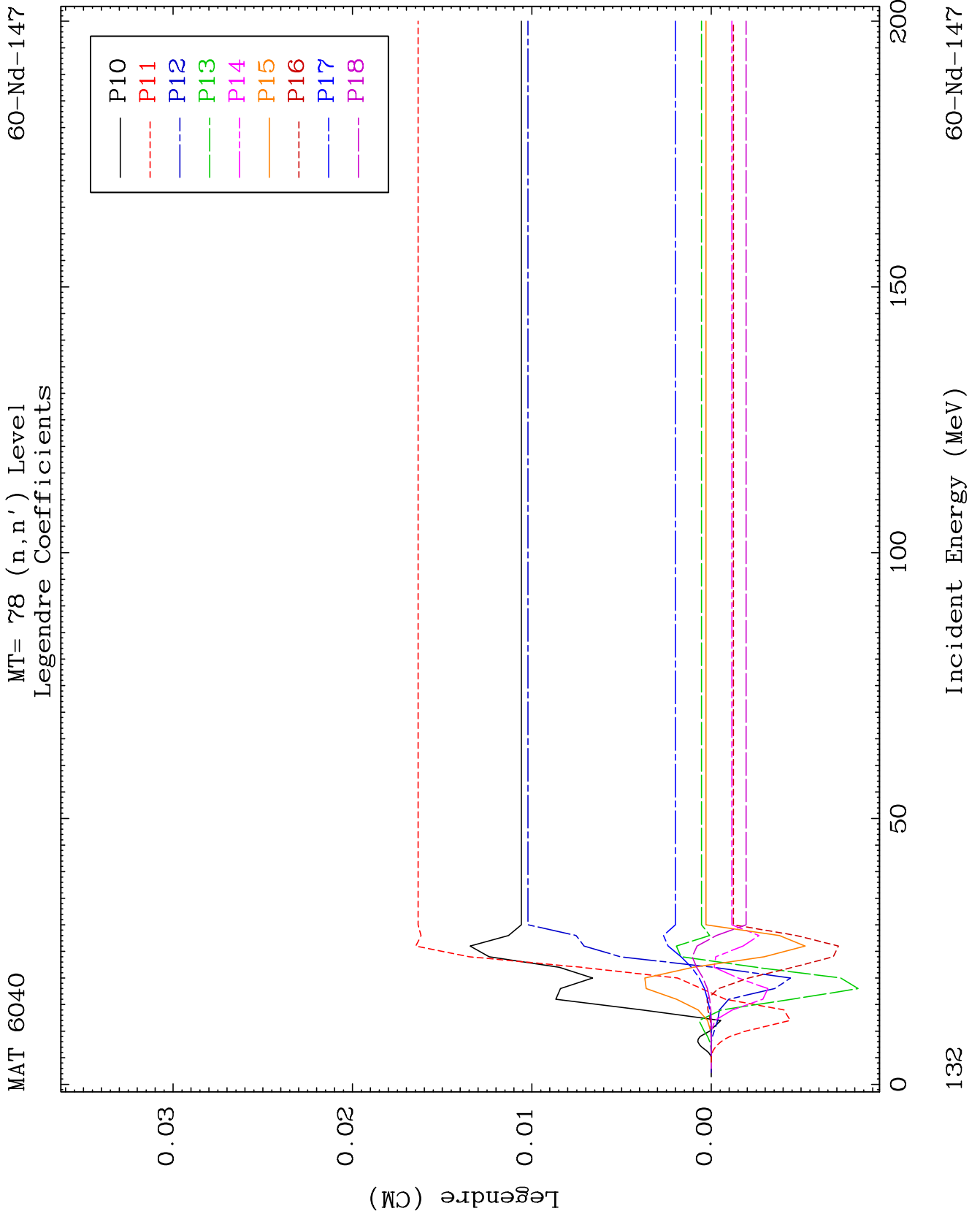
129

Incident Energy (MeV)

60-Nd-147



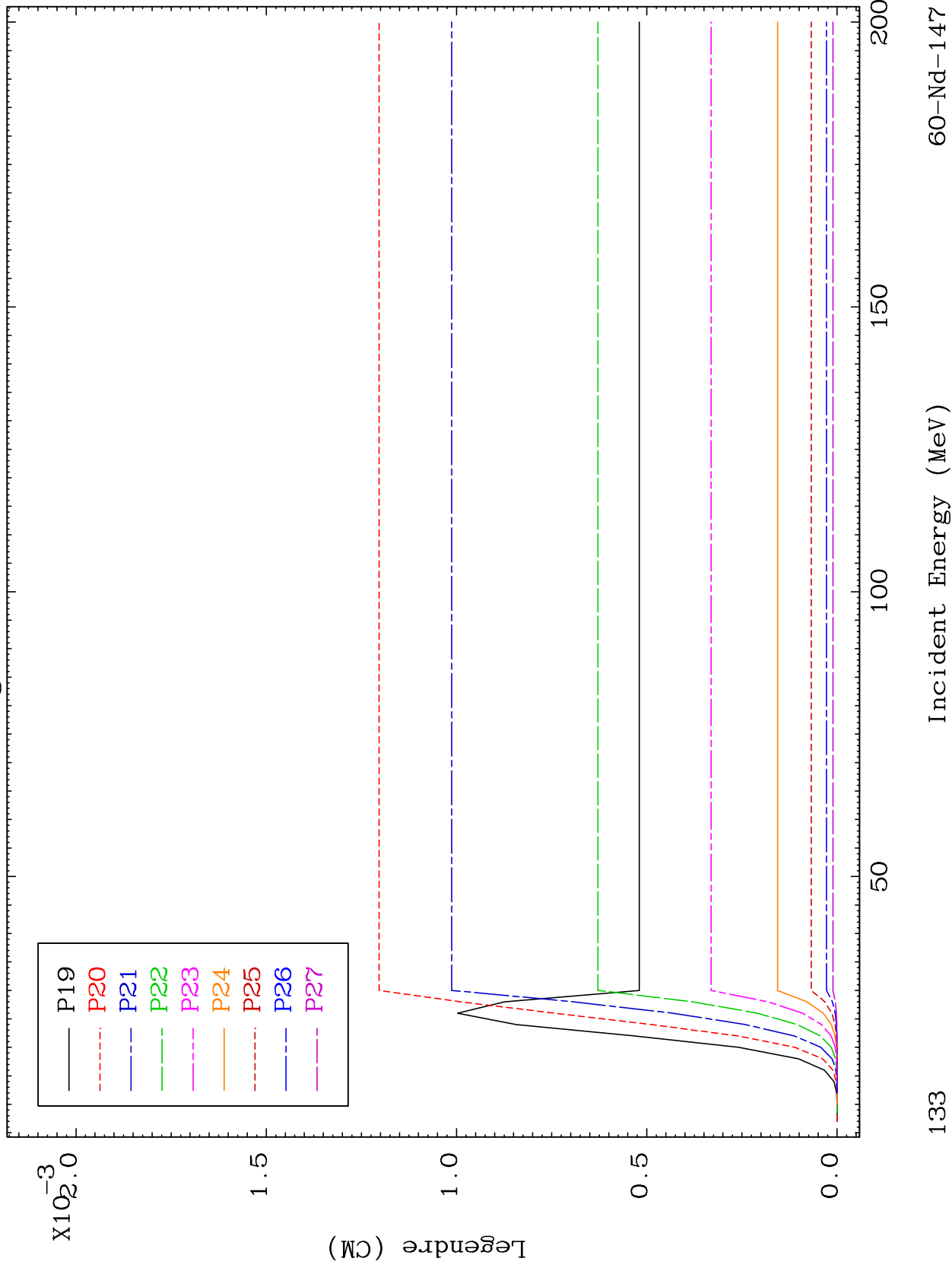




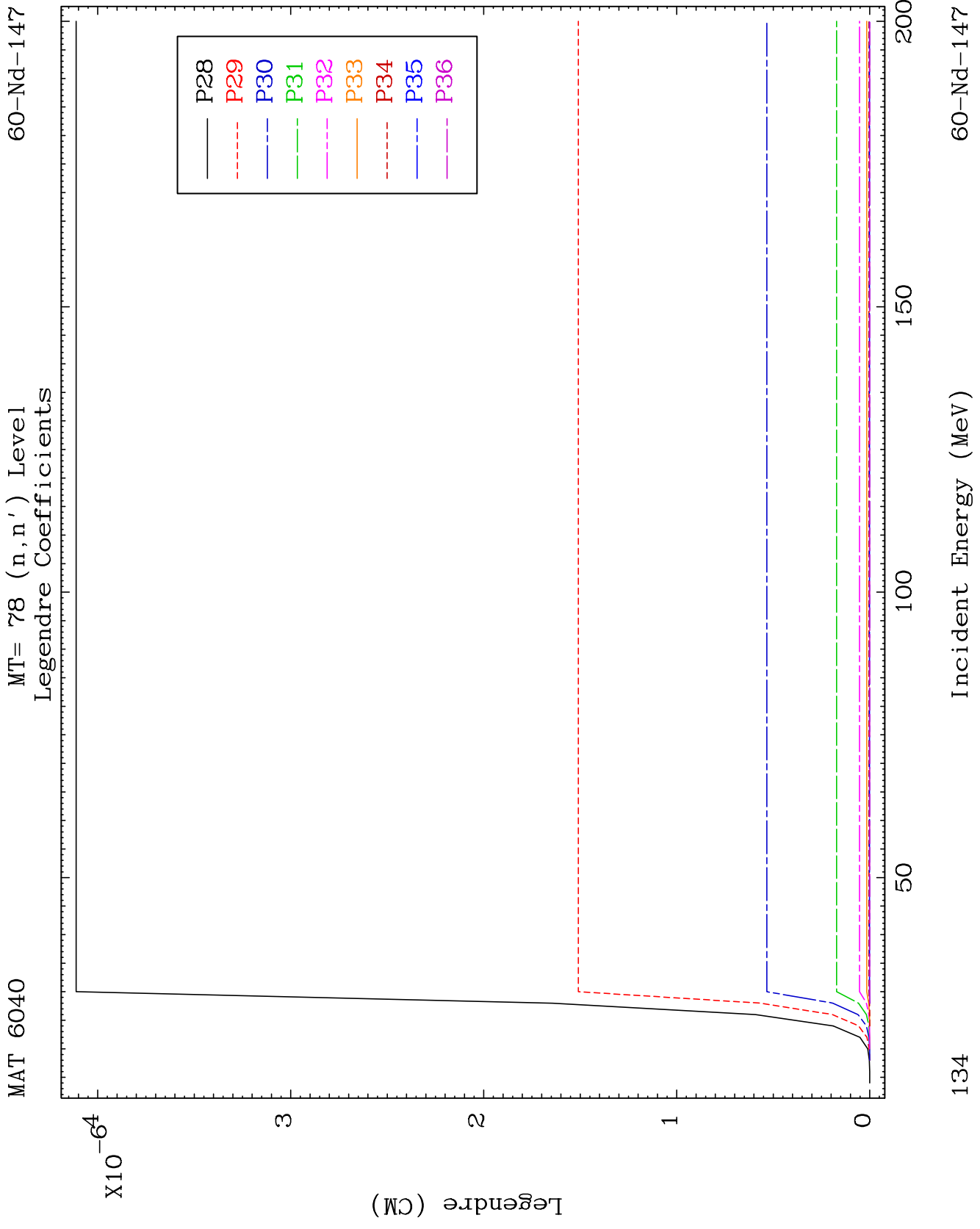
MAT 6040

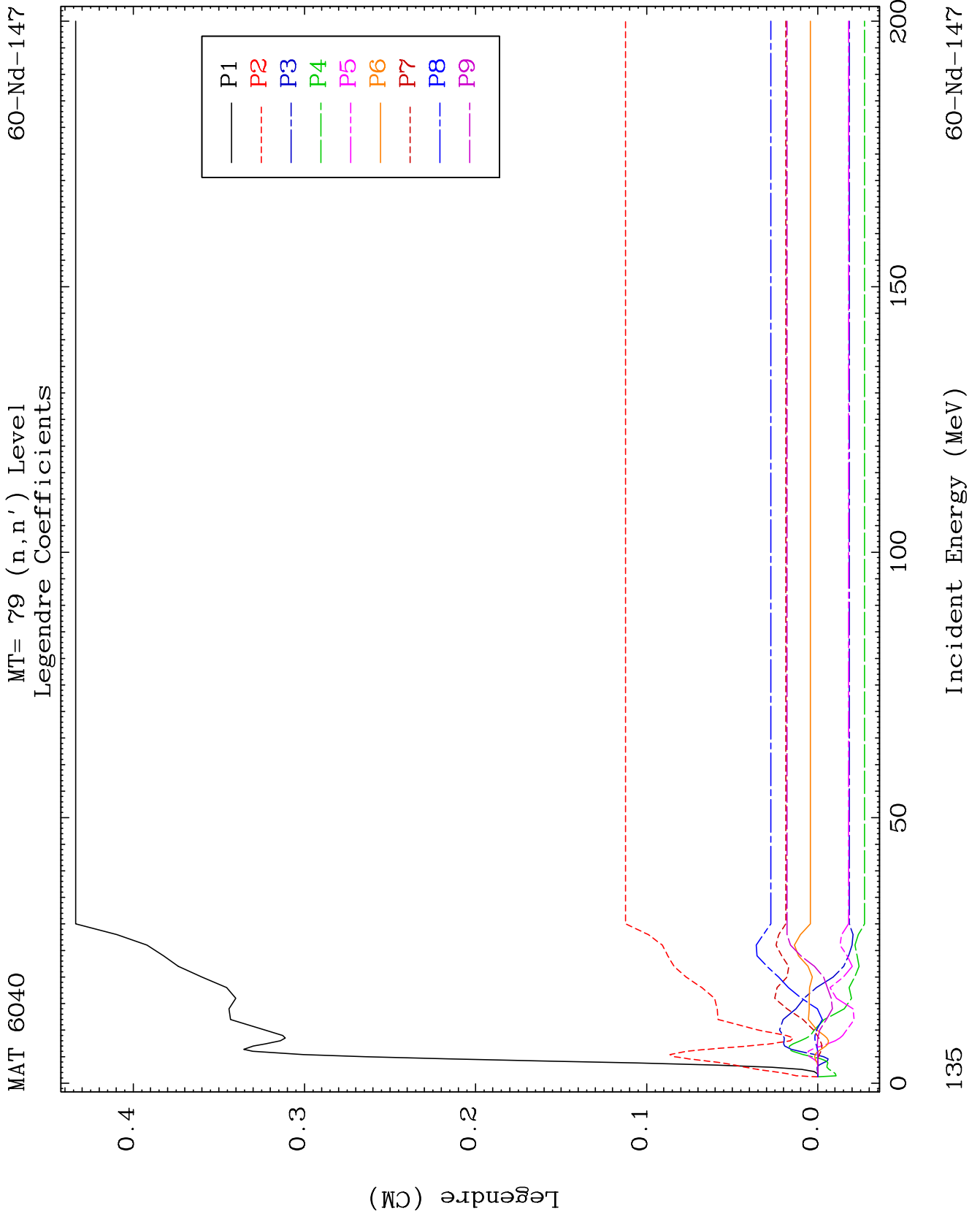
MT= 78 (n,n') Level  
Legendre Coefficients

60-Nd-147

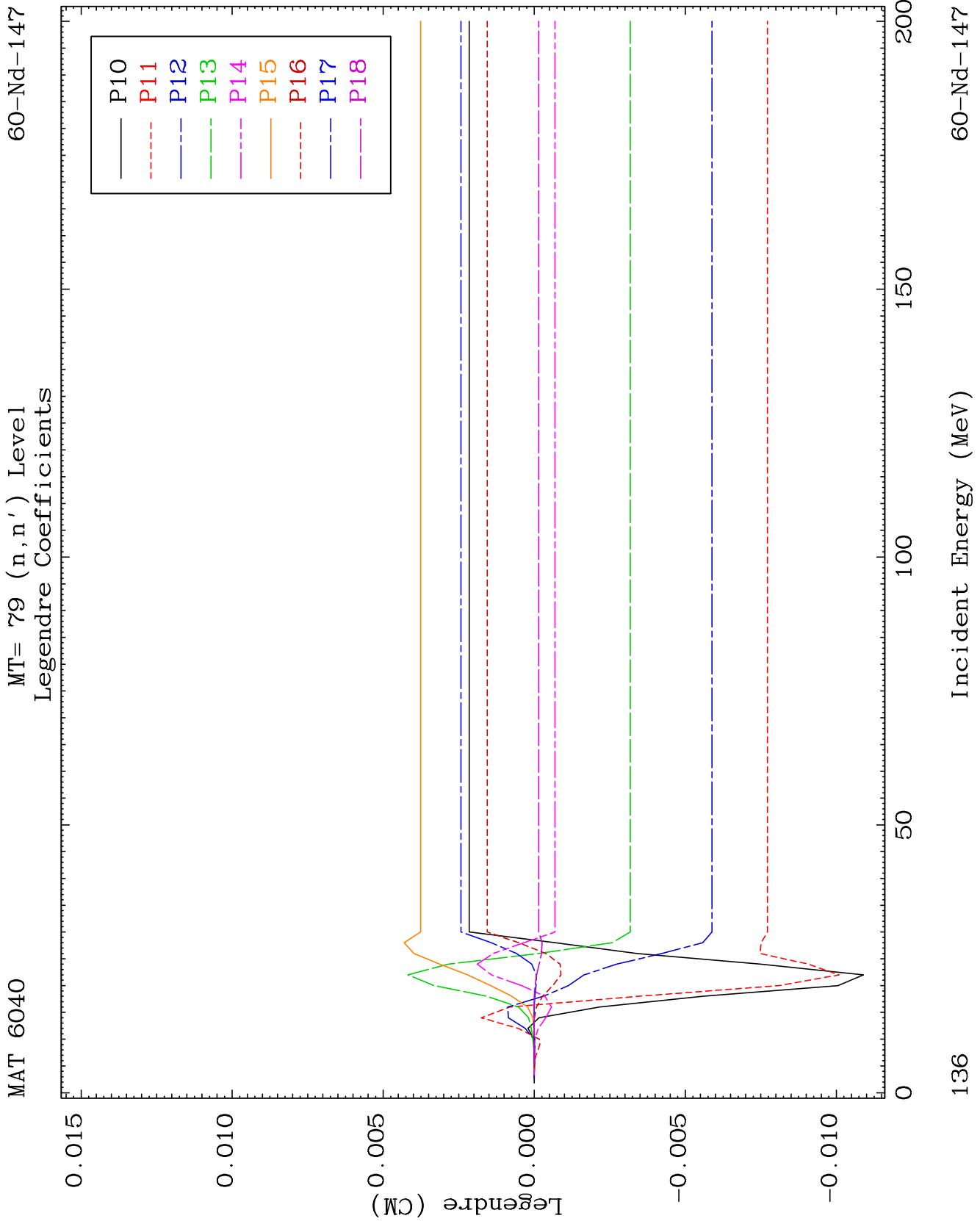


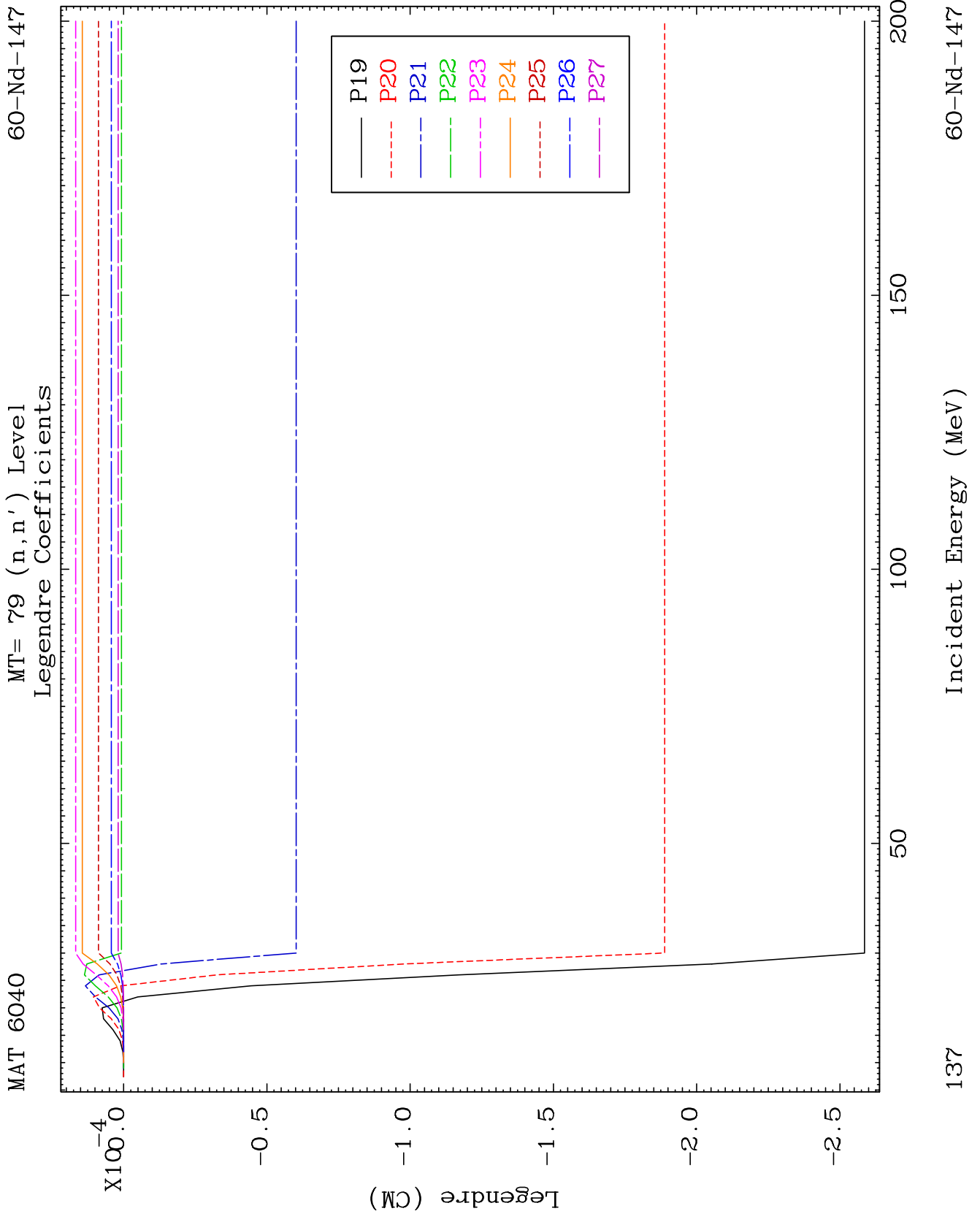
133

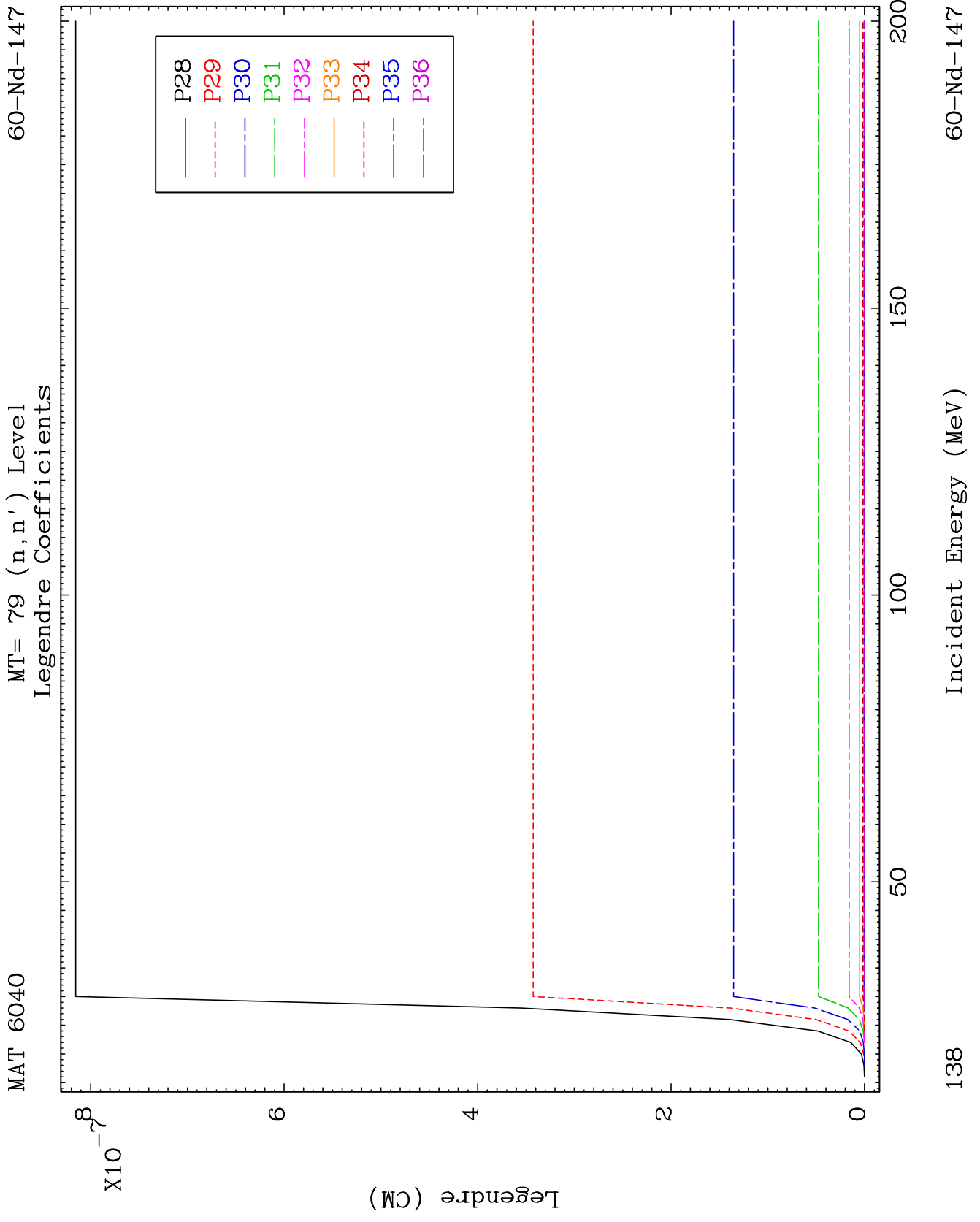


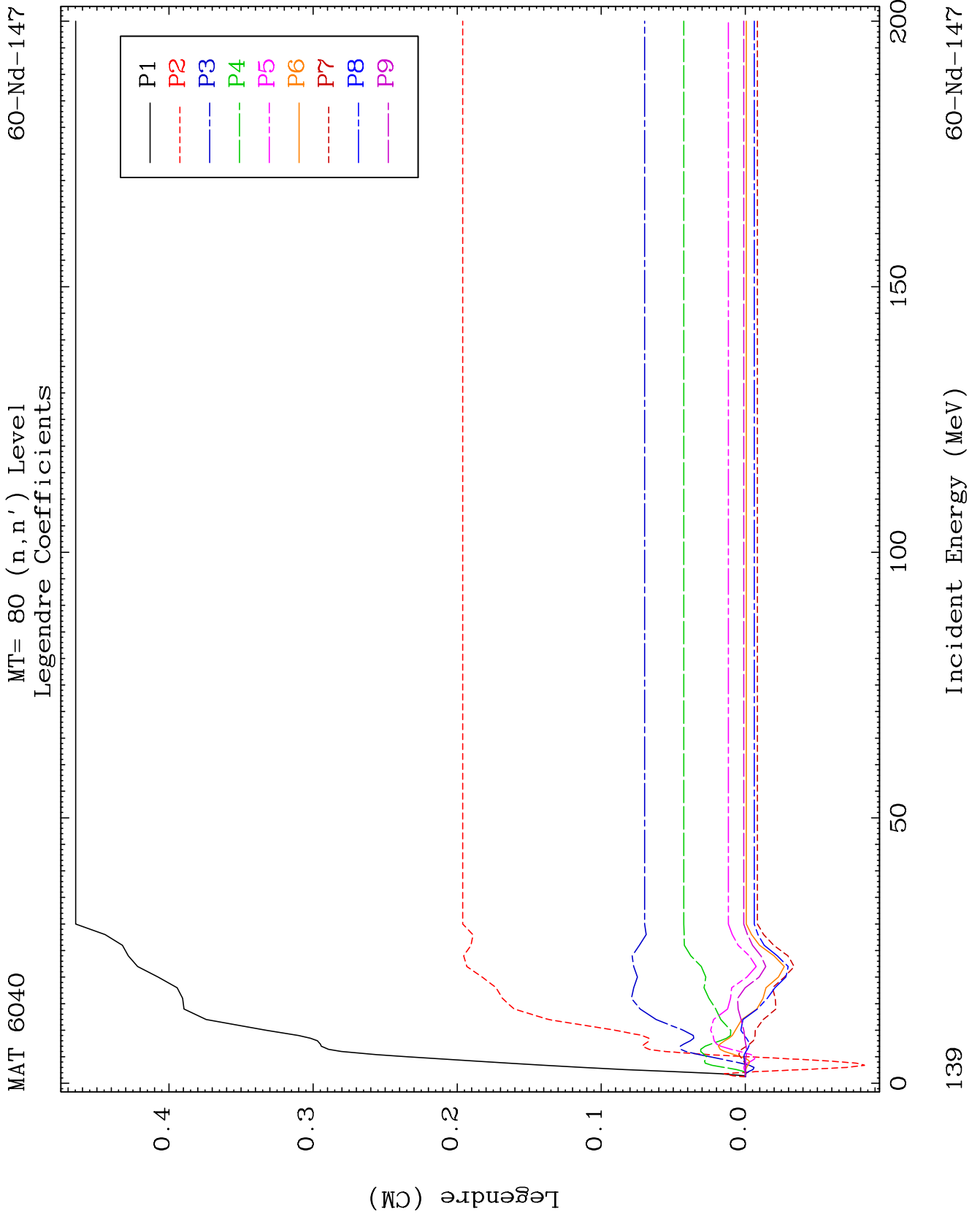




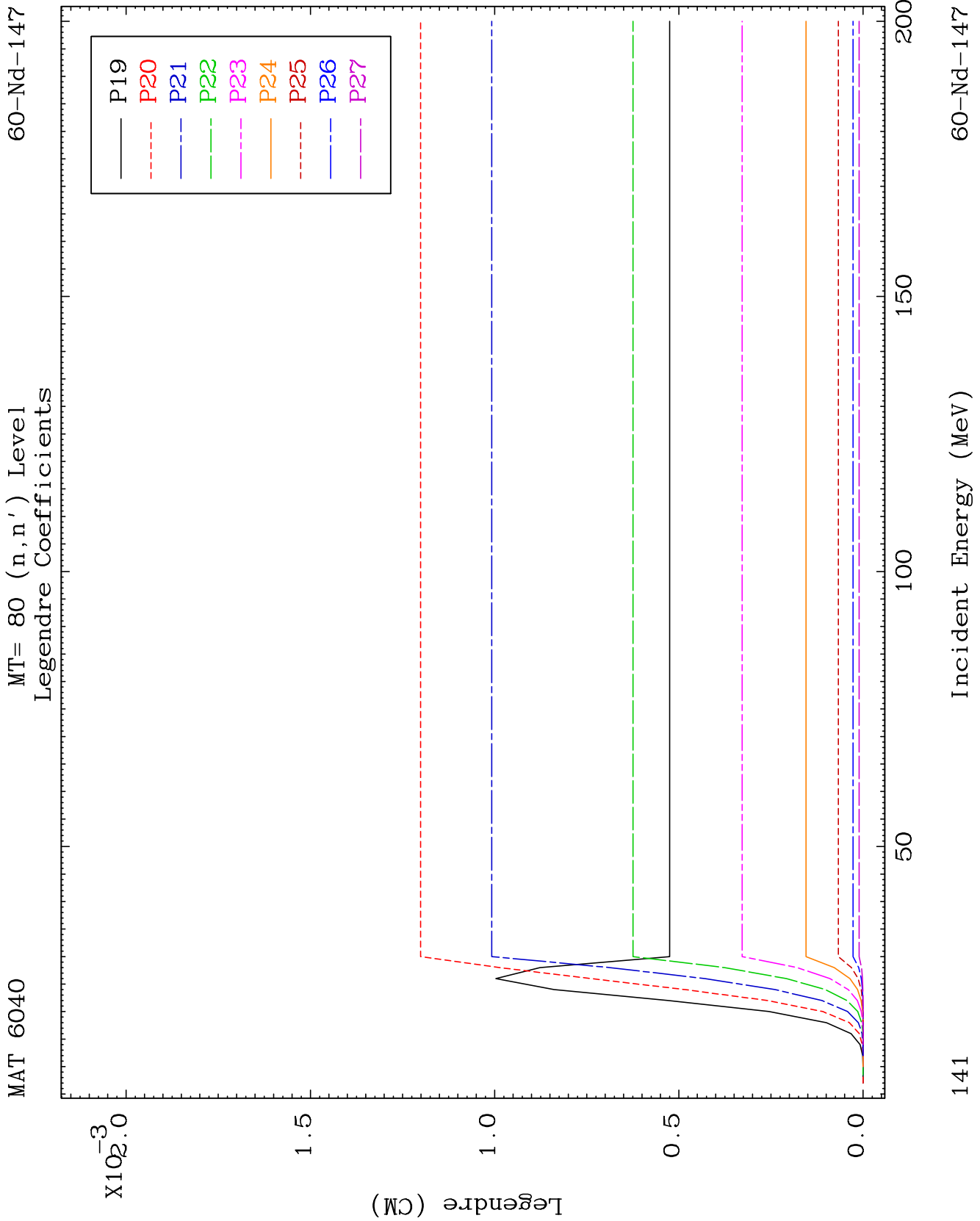


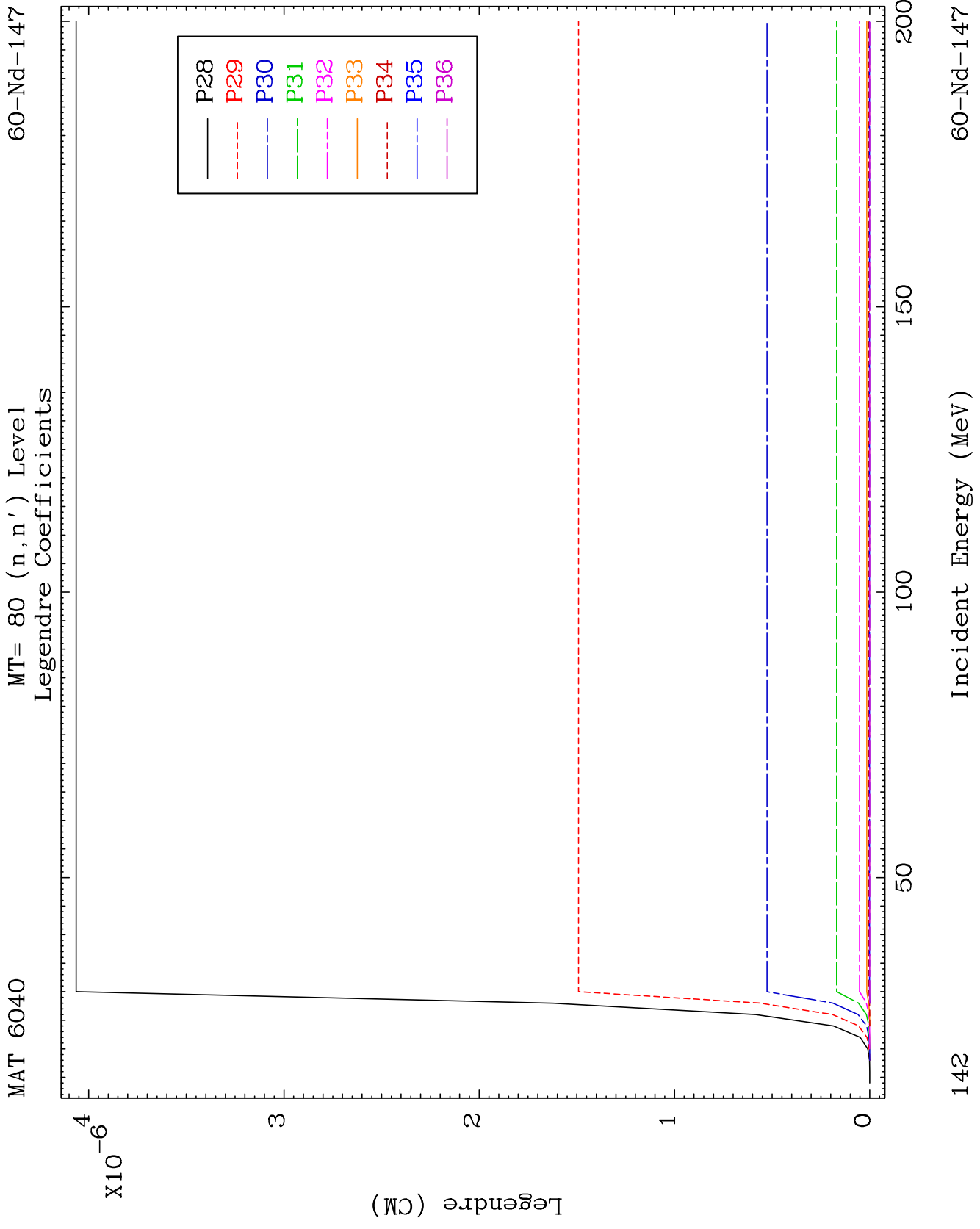










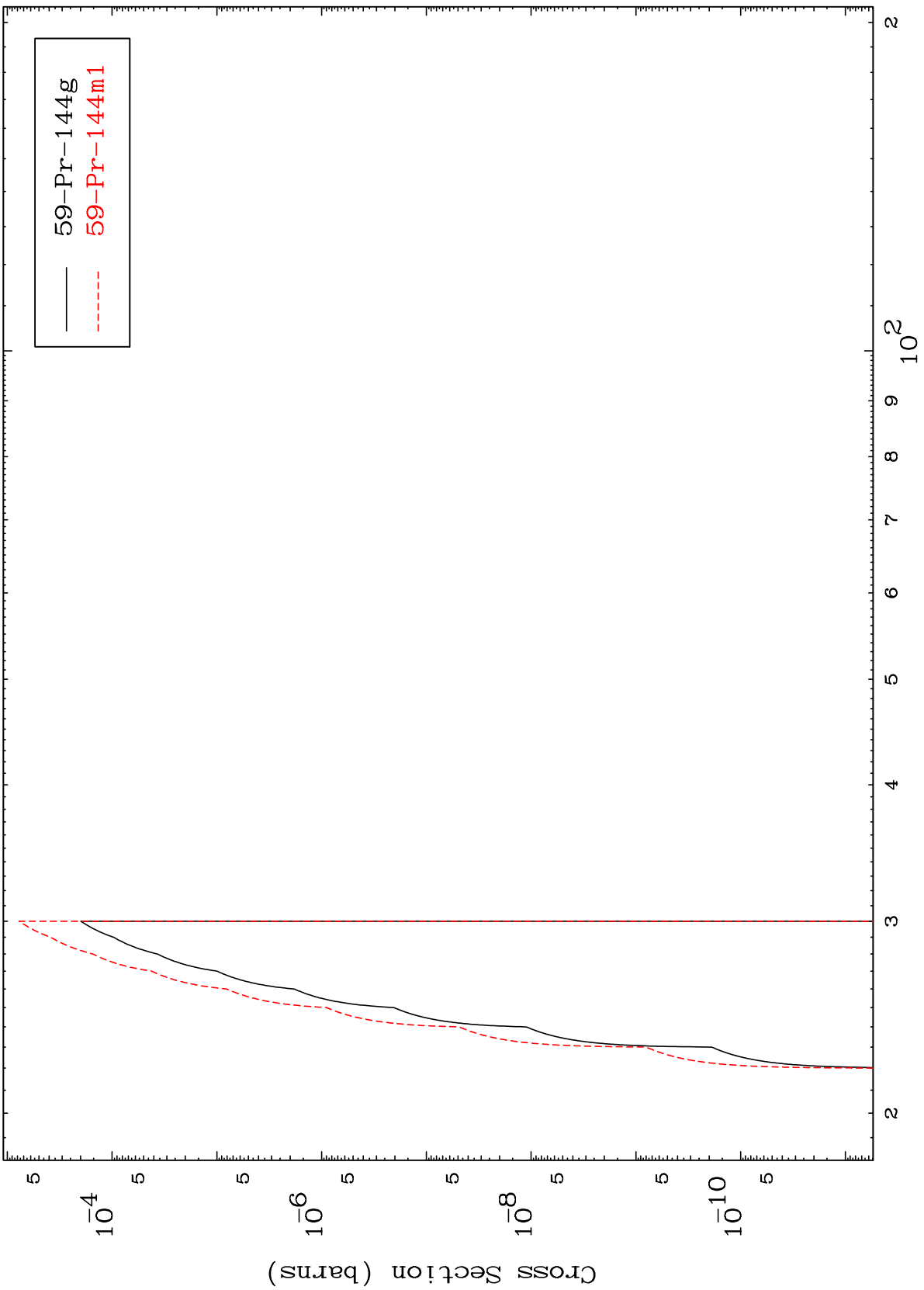


MAT 6040

(n,2n) d

60-Nd-147

Radionuclide Production Cross Section



59-Pr-144g  
59-Pr-144m1

143

Incident Energy (MeV)

60-Nd-147

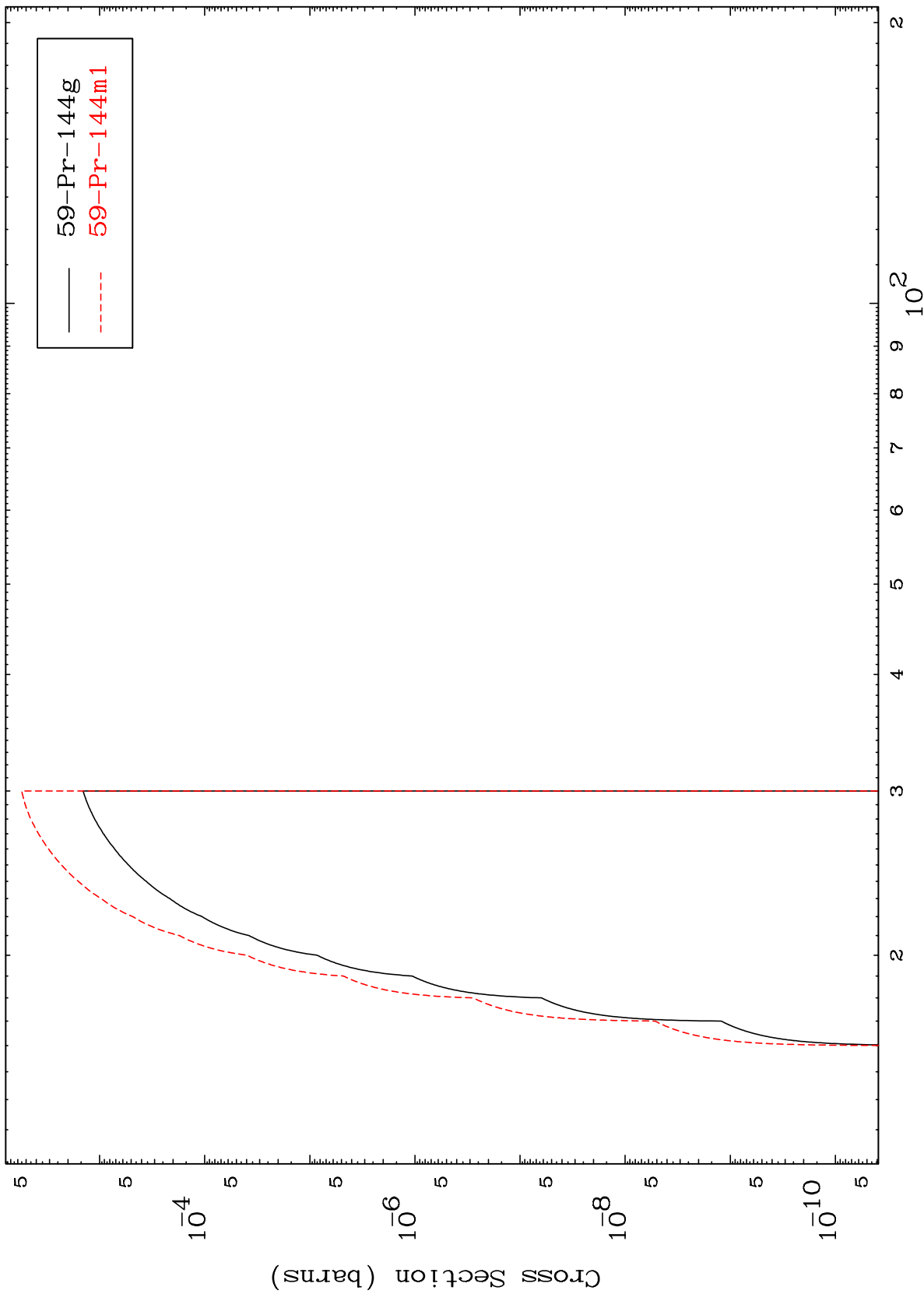


MAT 6040

(n,n') t

60-Nd-147

Radionuclide Production Cross Section



144

Incident Energy (MeV)

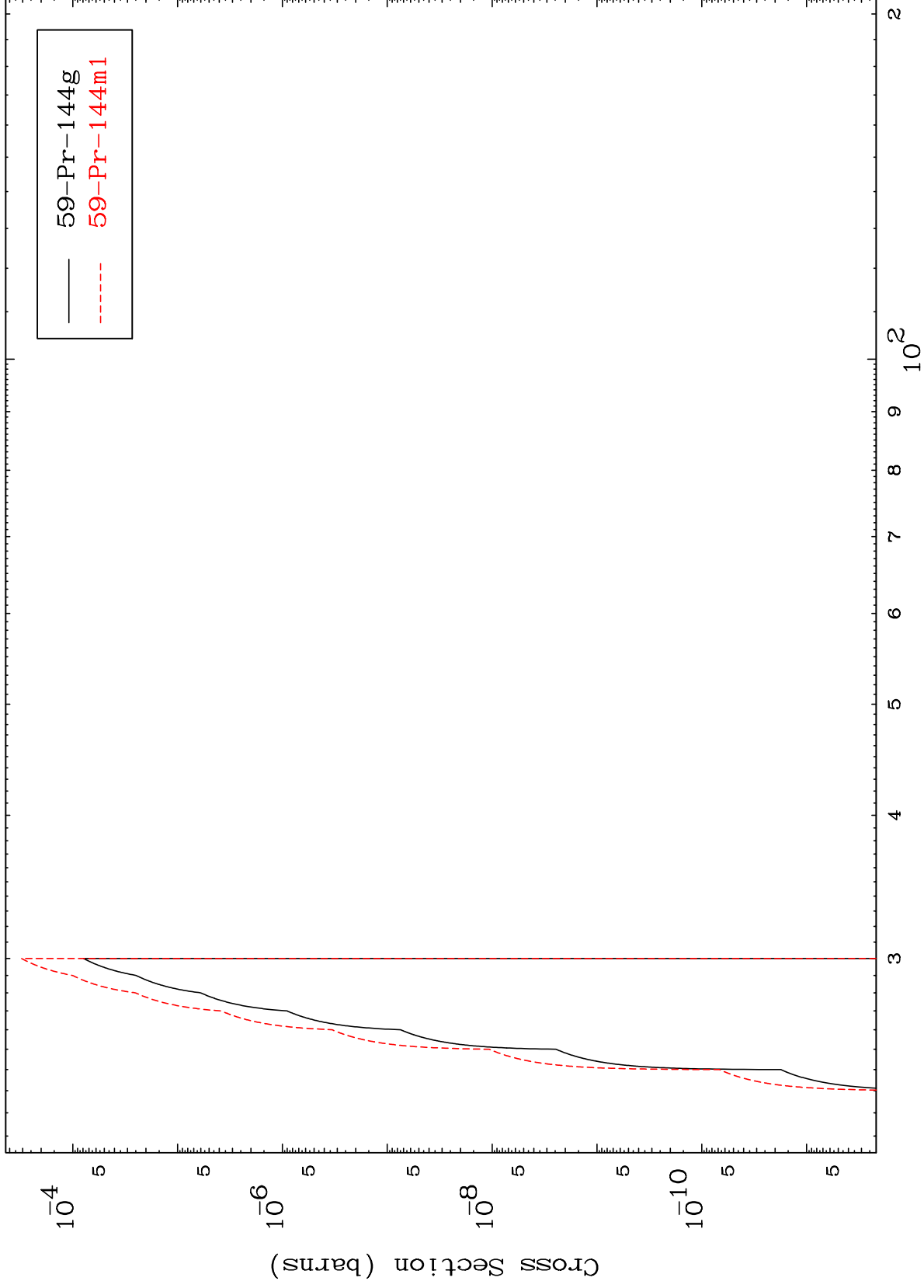
60-Nd-147

MAT 6040

(n,3n) p

60-Nd-147

Radionuclide Production Cross Section



145

Incident Energy (MeV)

60-Nd-147