

Program EVALPLOT
(Version 2018-1)

by

Dermott E. Cullen
(Present Contact Information)

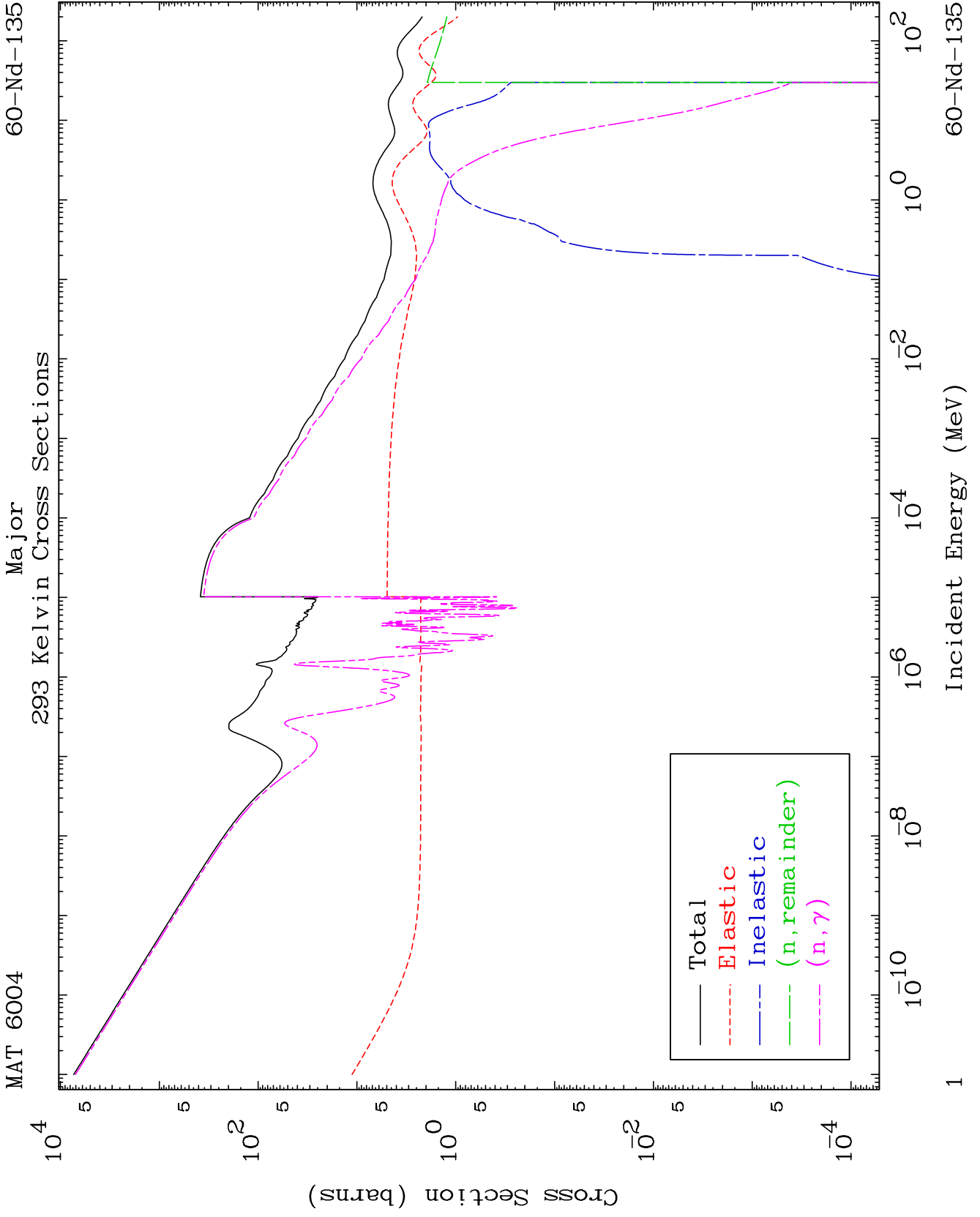
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.

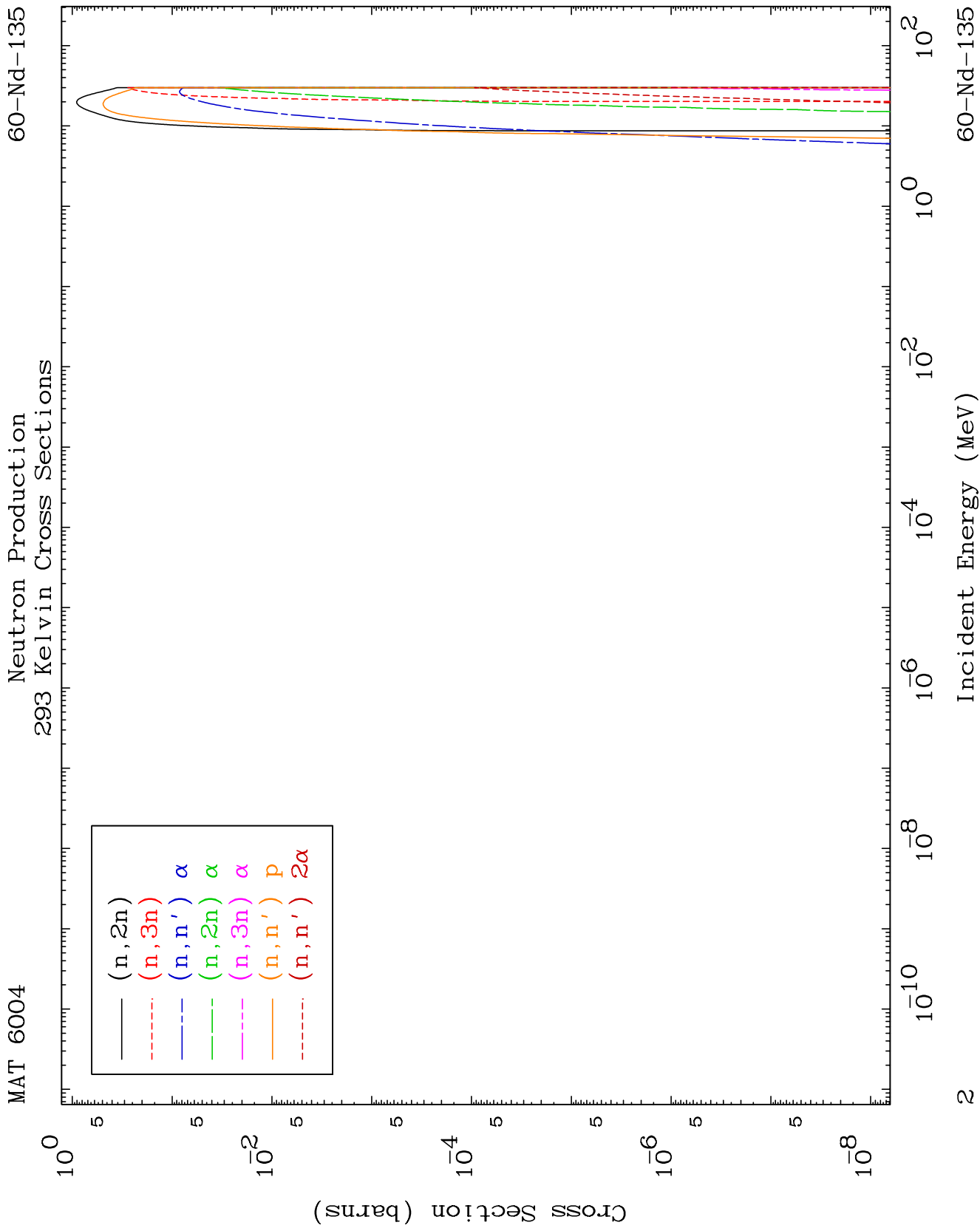
Tele: 925-443-1911

E.Mail:redcullen1@comcast.net

Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

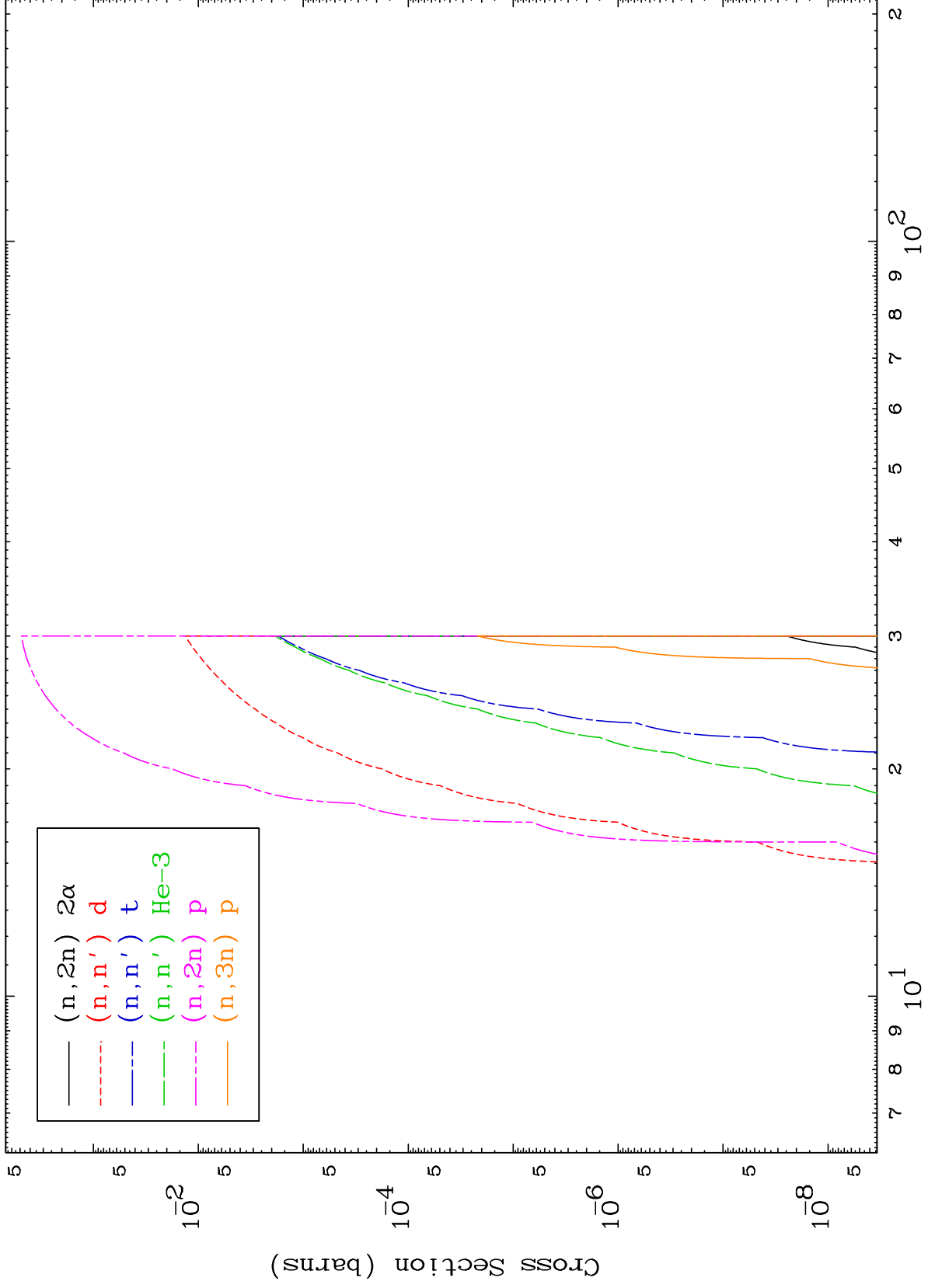




MAT 6004

Neutron Production
293 Kelvin Cross Sections

60-Nd-135



(n, 2n) 2α
(n, n') d
(n, n') t
(n, n') He-3
(n, 2n) p
(n, 3n) p

60-Nd-135

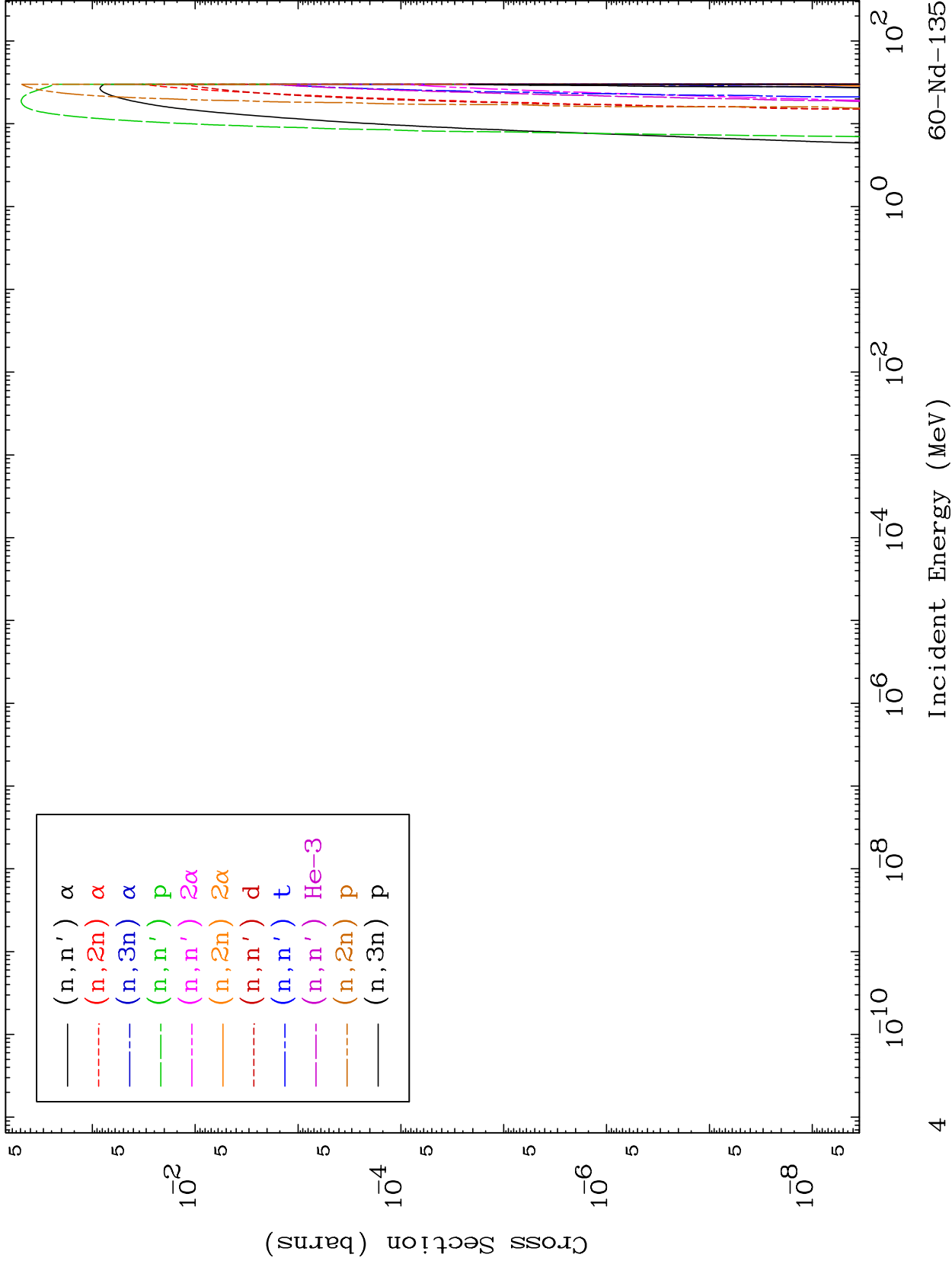
Incident Energy (MeV)

3

MAT 6004

Charged Particle
293 Kelvin Cross Sections

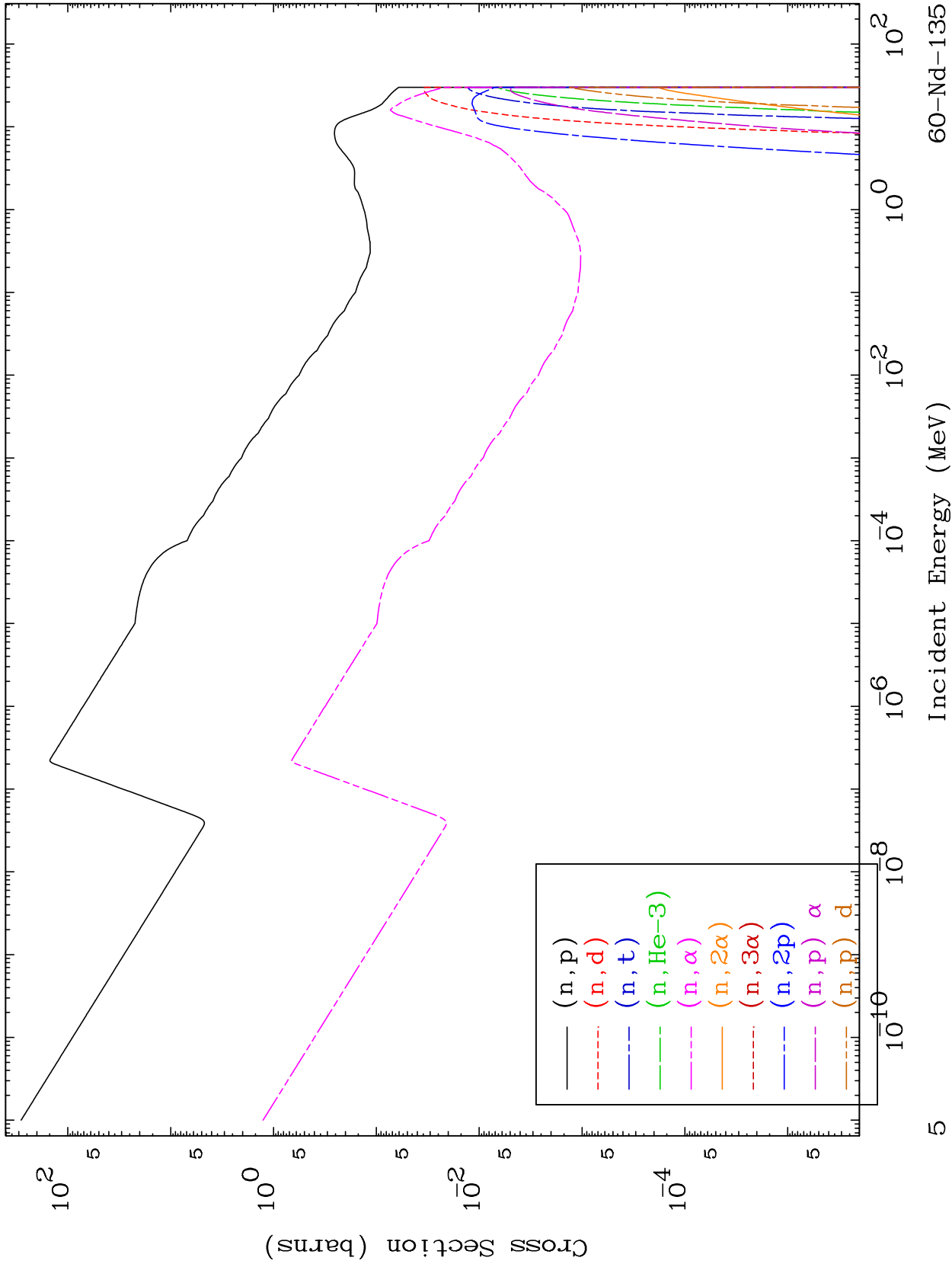
60-Nd-135



MAT 6004

Charged Particle
293 Kelvin Cross Sections

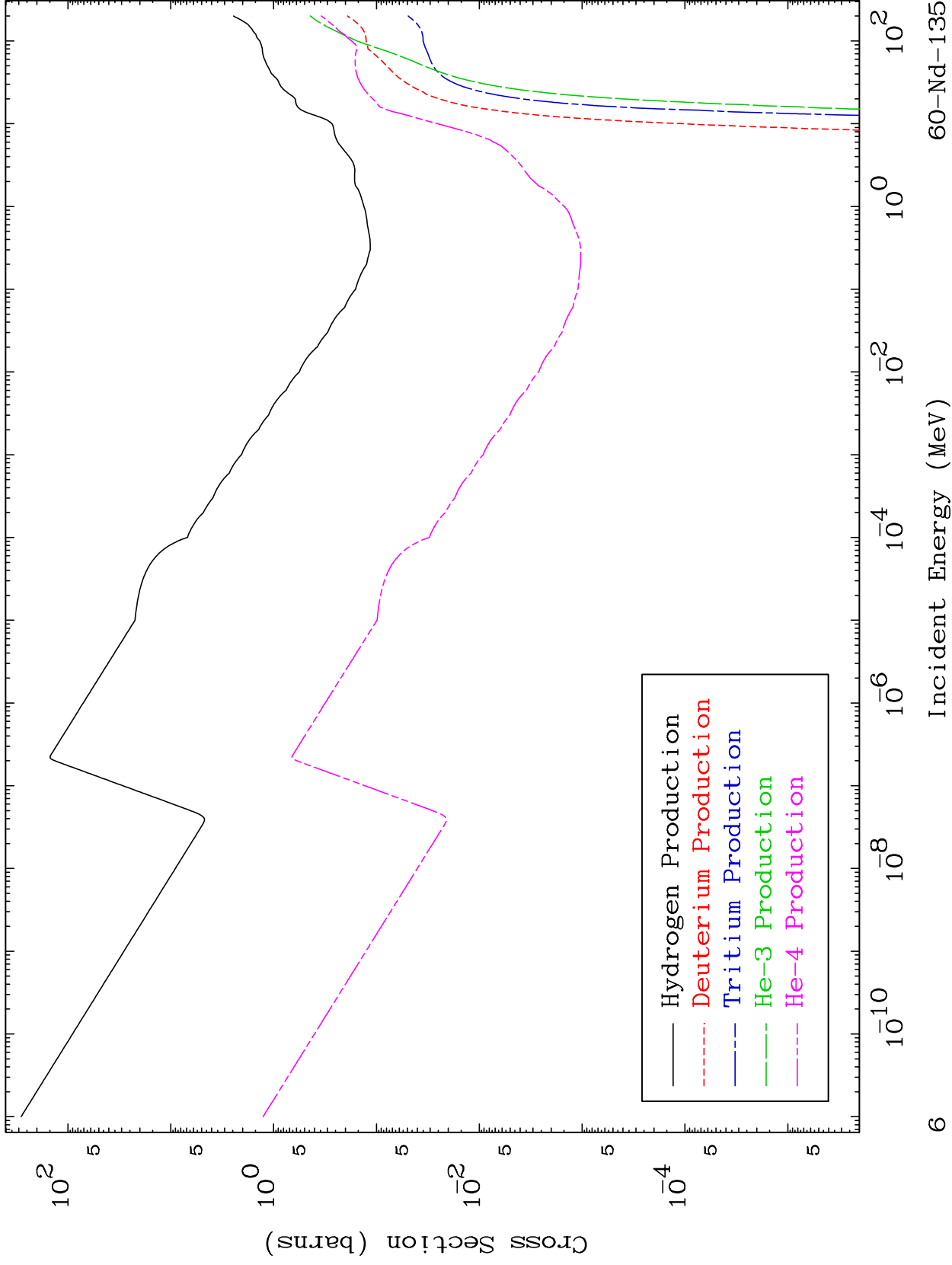
60-Nd-135



MAT 6004

Particle Production
293 Kelvin Cross Sections

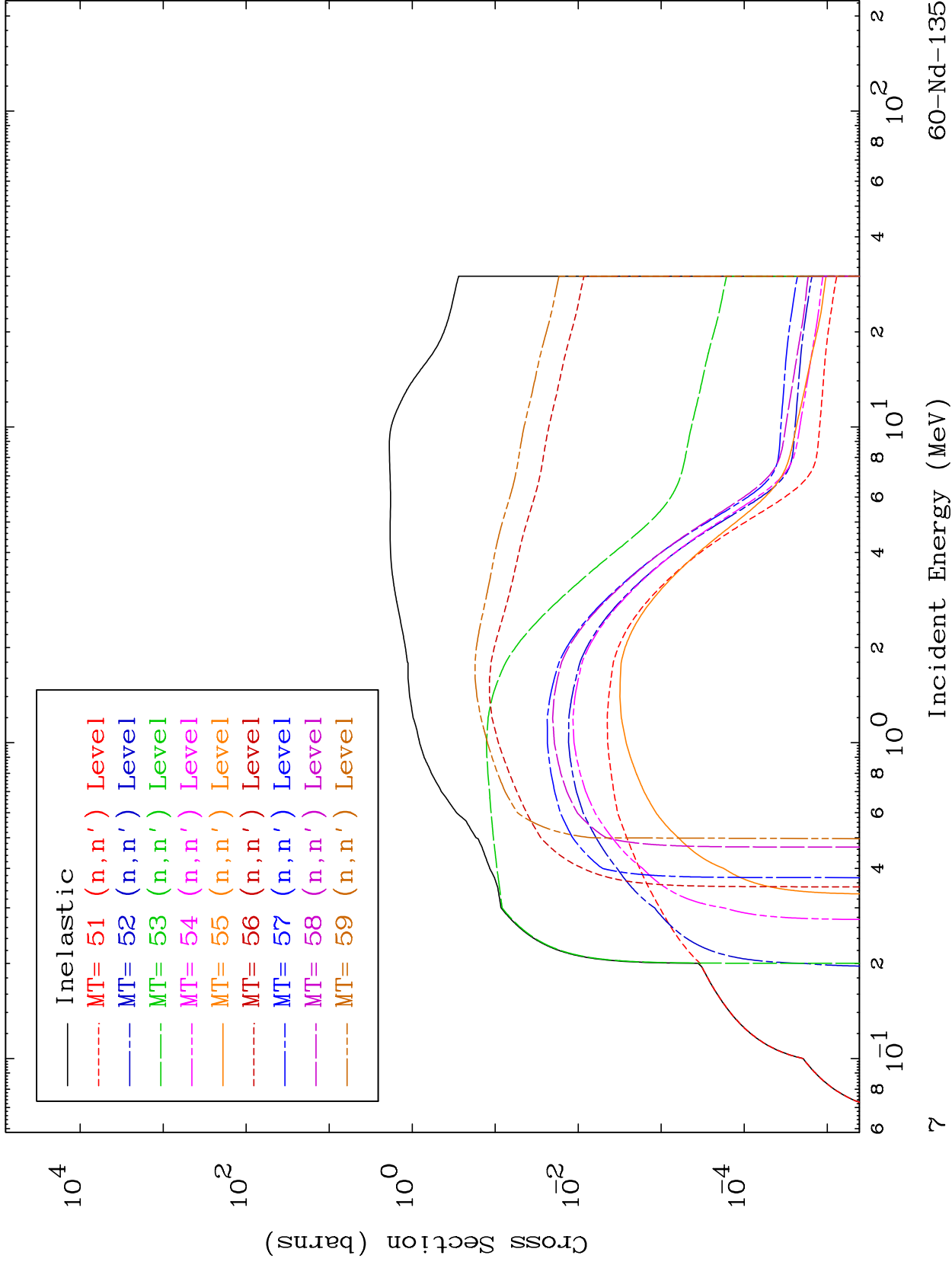
60-Nd-135



MAT 6004

(n,n') Level
293 Kelvin Cross Sections

60-Nd-135

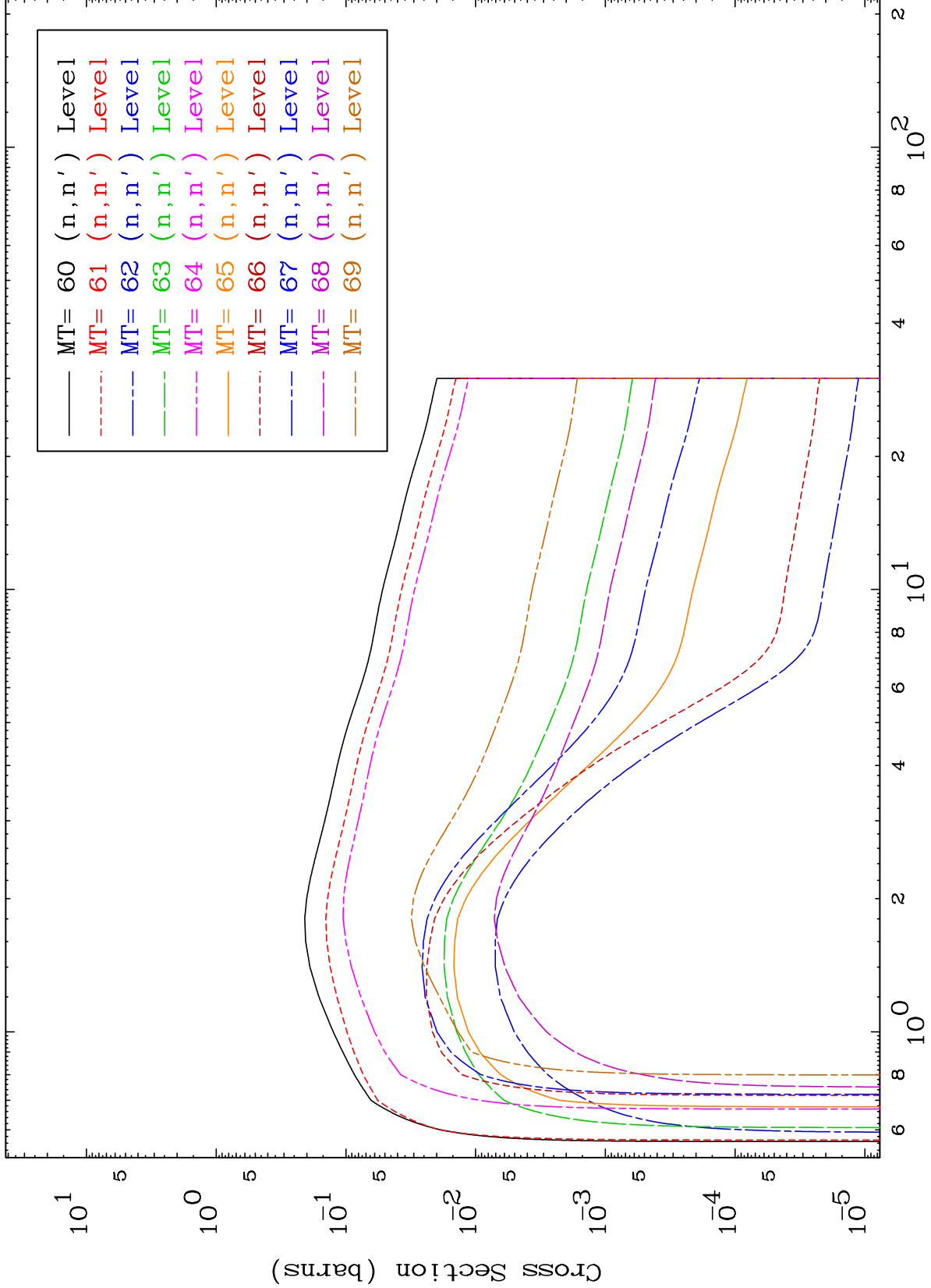


MAT 6004

(n,n') Level

60-Nd-135

293 Kelvin Cross Sections



8

Incident Energy (MeV)

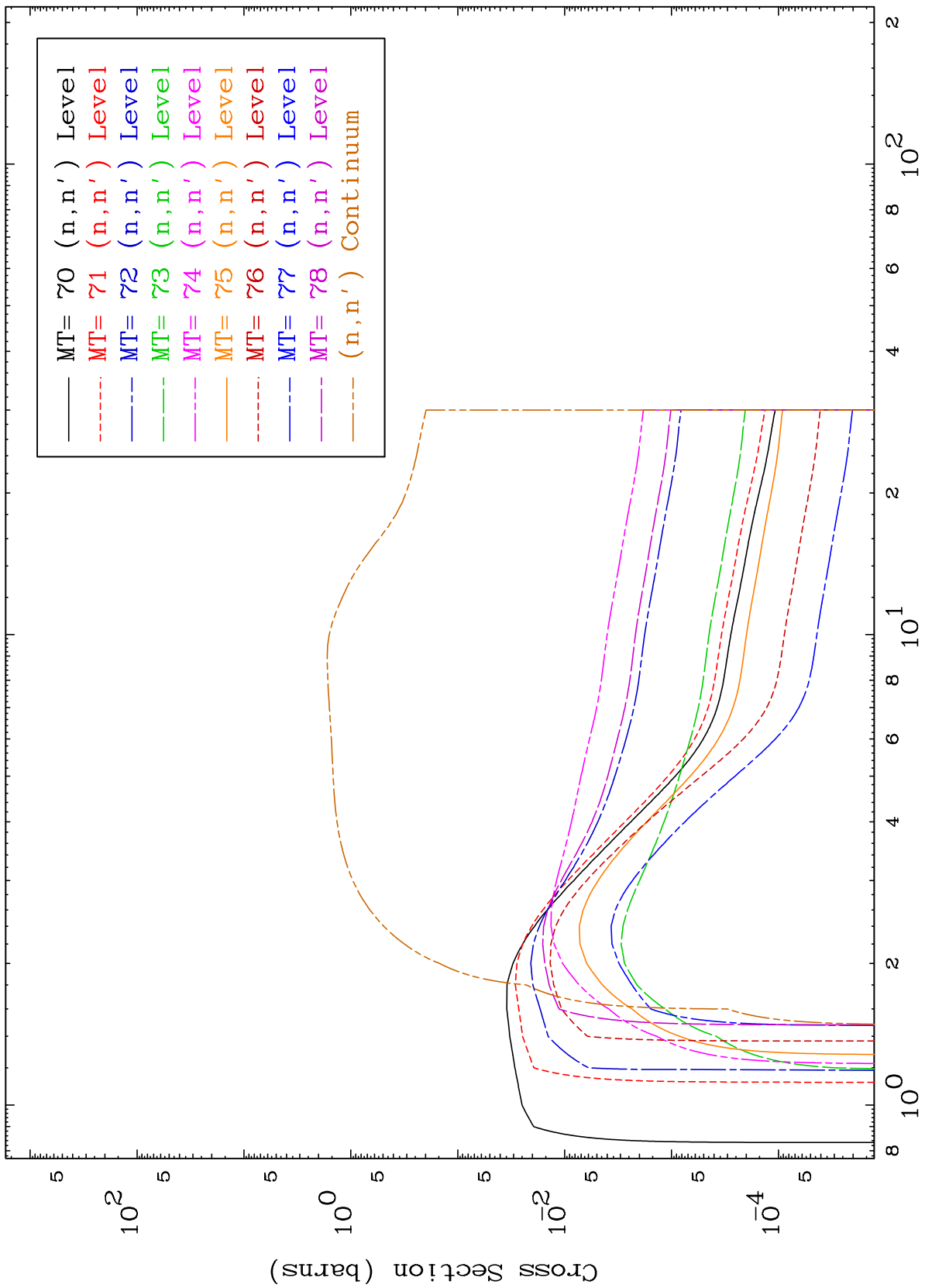
60-Nd-135

MAT 6004

(n,n') Level

60-Nd-135

293 Kelvin Cross Sections



Incident Energy (MeV)

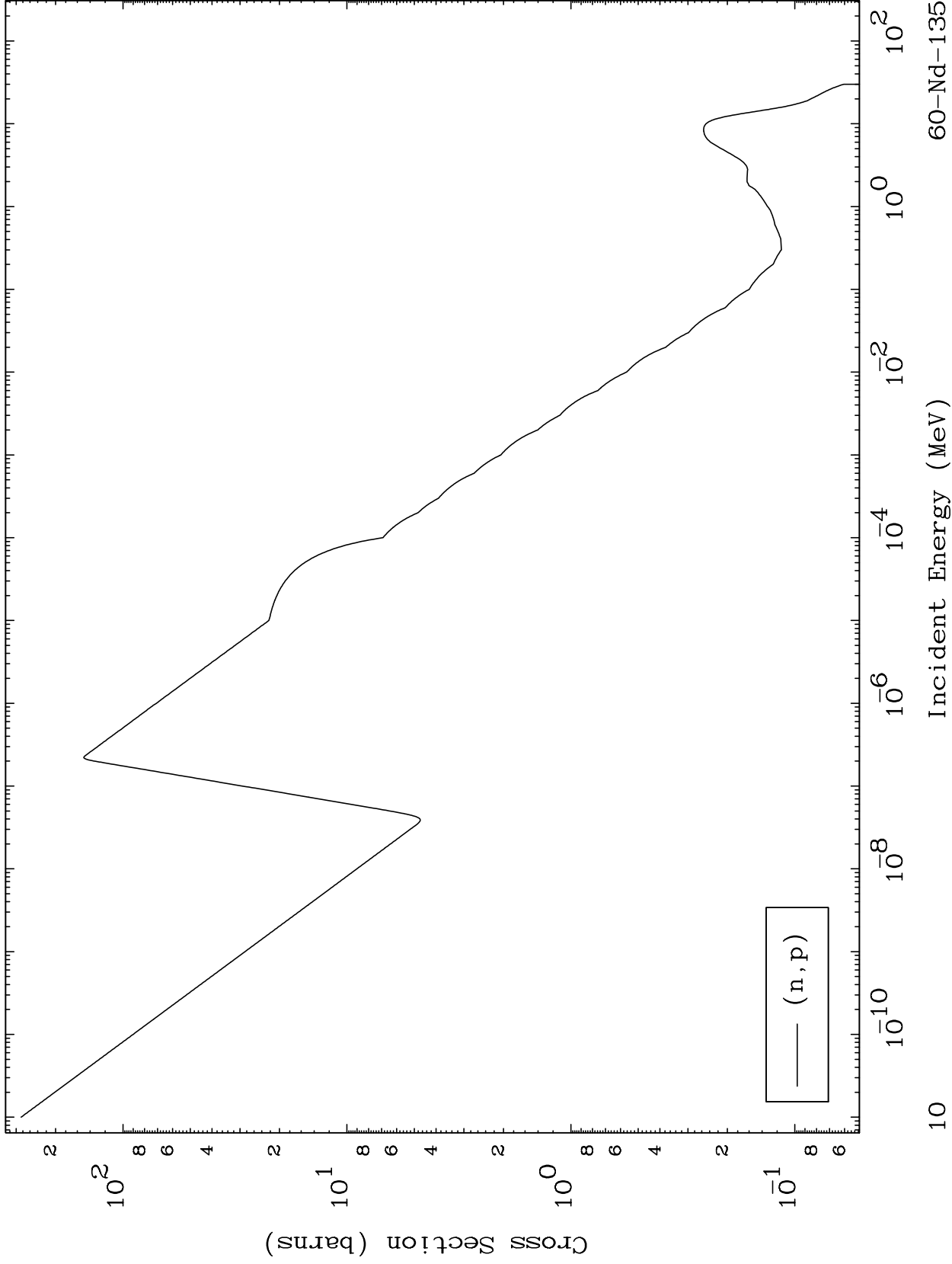
60-Nd-135

9

MAT 6004

(n,p) Levels
293 Kelvin Cross Sections

60-Nd-135



10

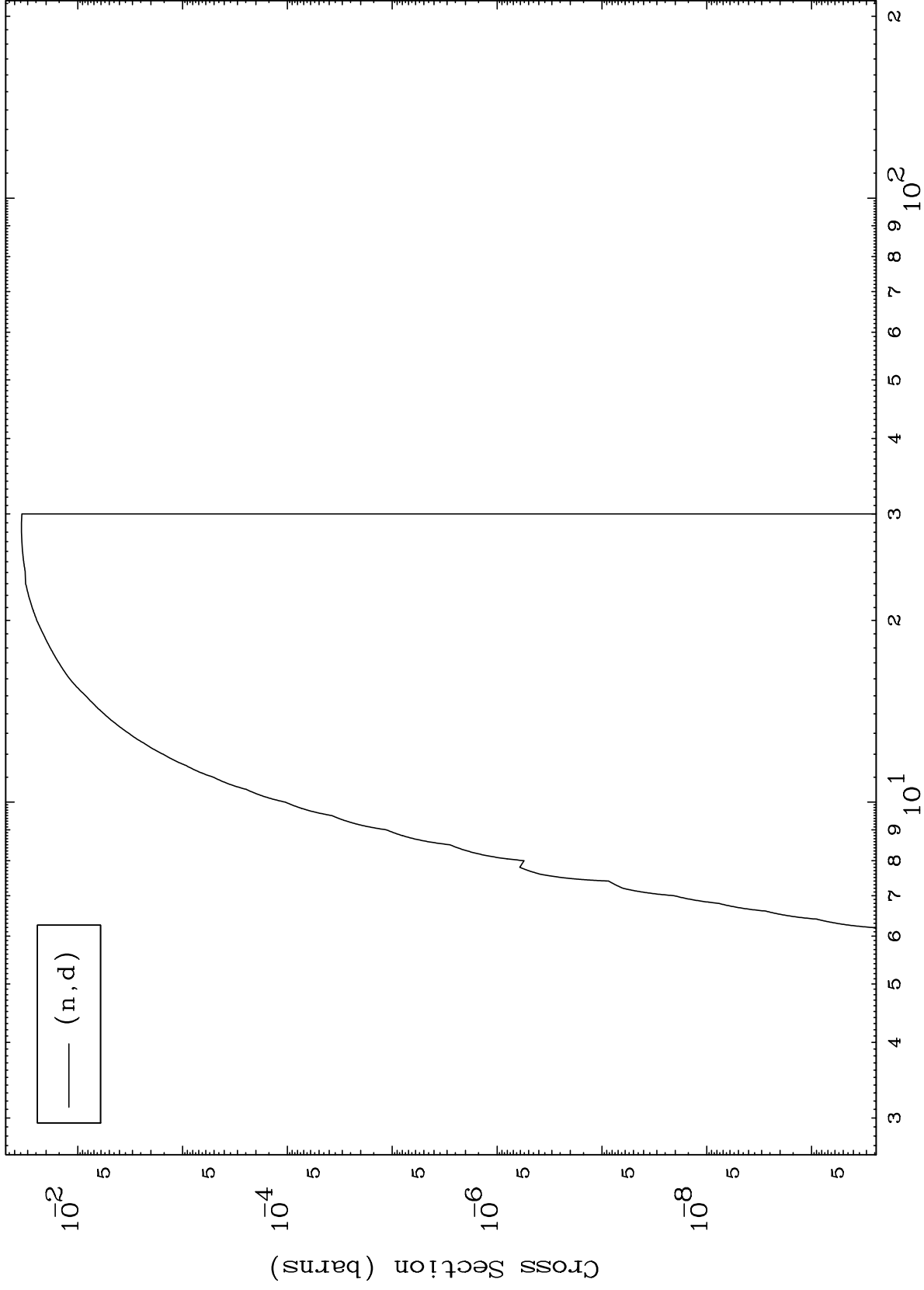
Incident Energy (MeV)

60-Nd-135

MAT 6004

(n,d) Levels
293 Kelvin Cross Sections

60-Nd-135



11

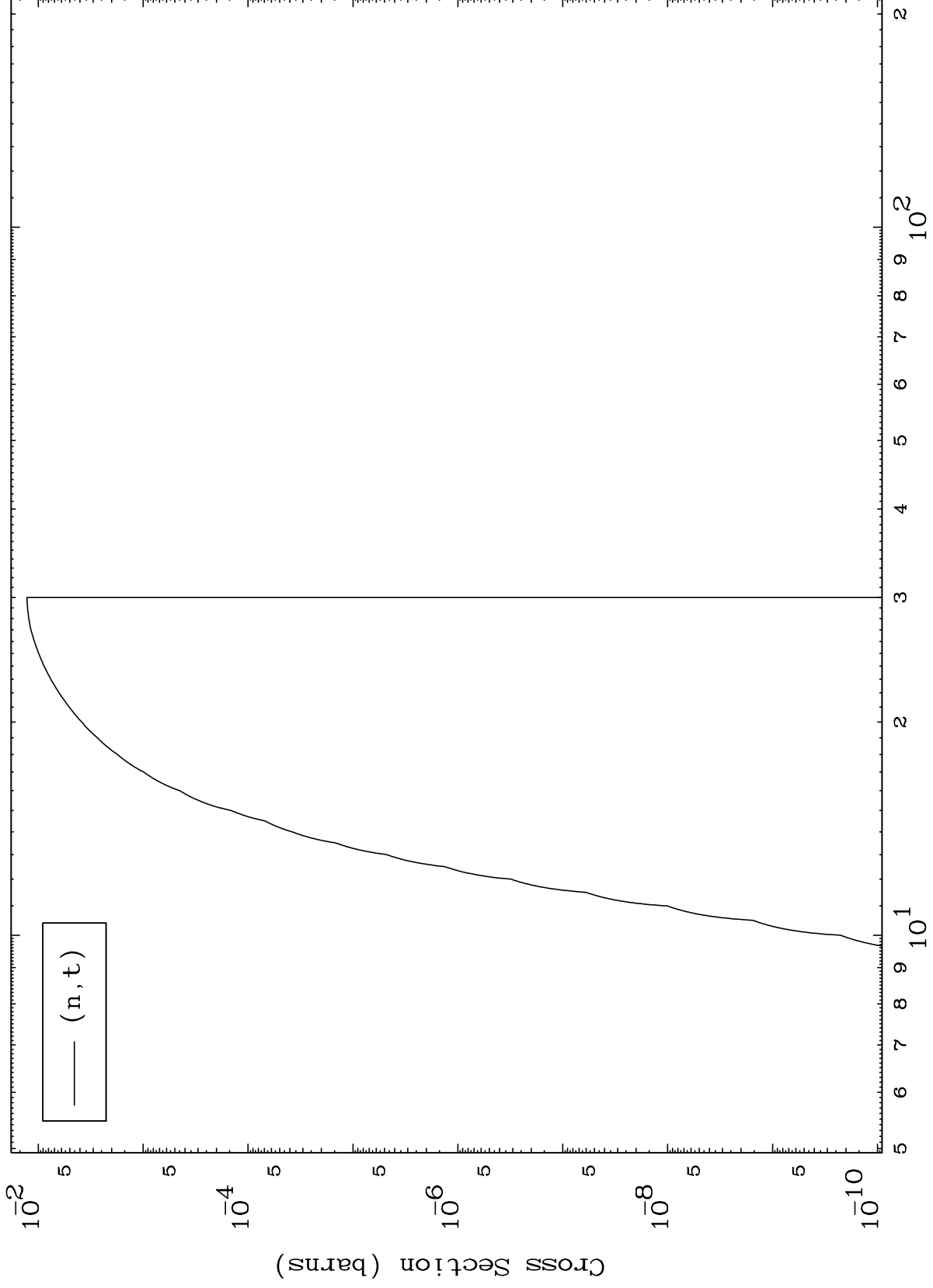
Incident Energy (MeV)

60-Nd-135

MAT 6004

(n,t) Levels
293 Kelvin Cross Sections

60-Nd-135



12

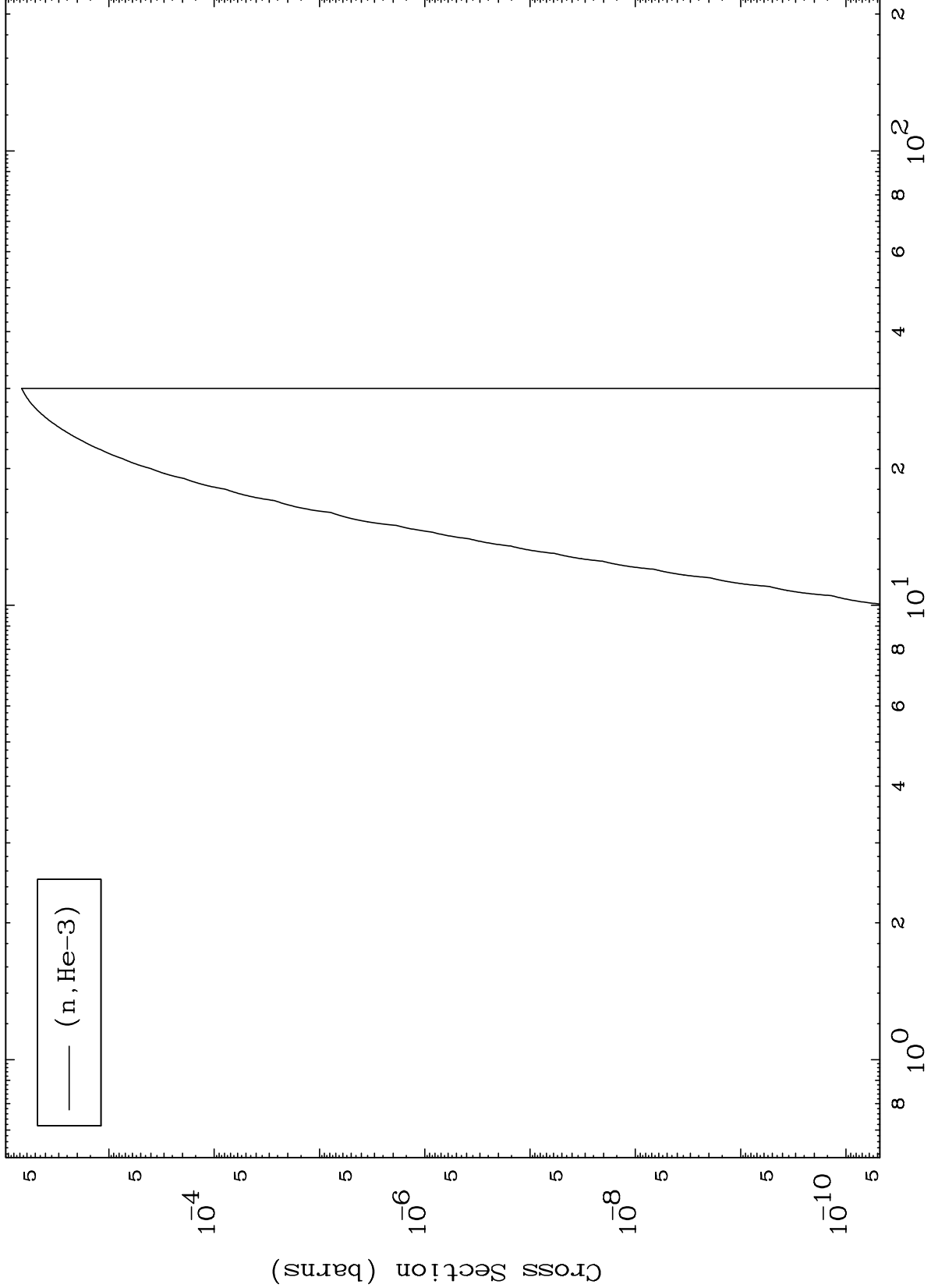
Incident Energy (MeV)

60-Nd-135

MAT 6004

(n,He3) Levels
293 Kelvin Cross Sections

60-Nd-135



13

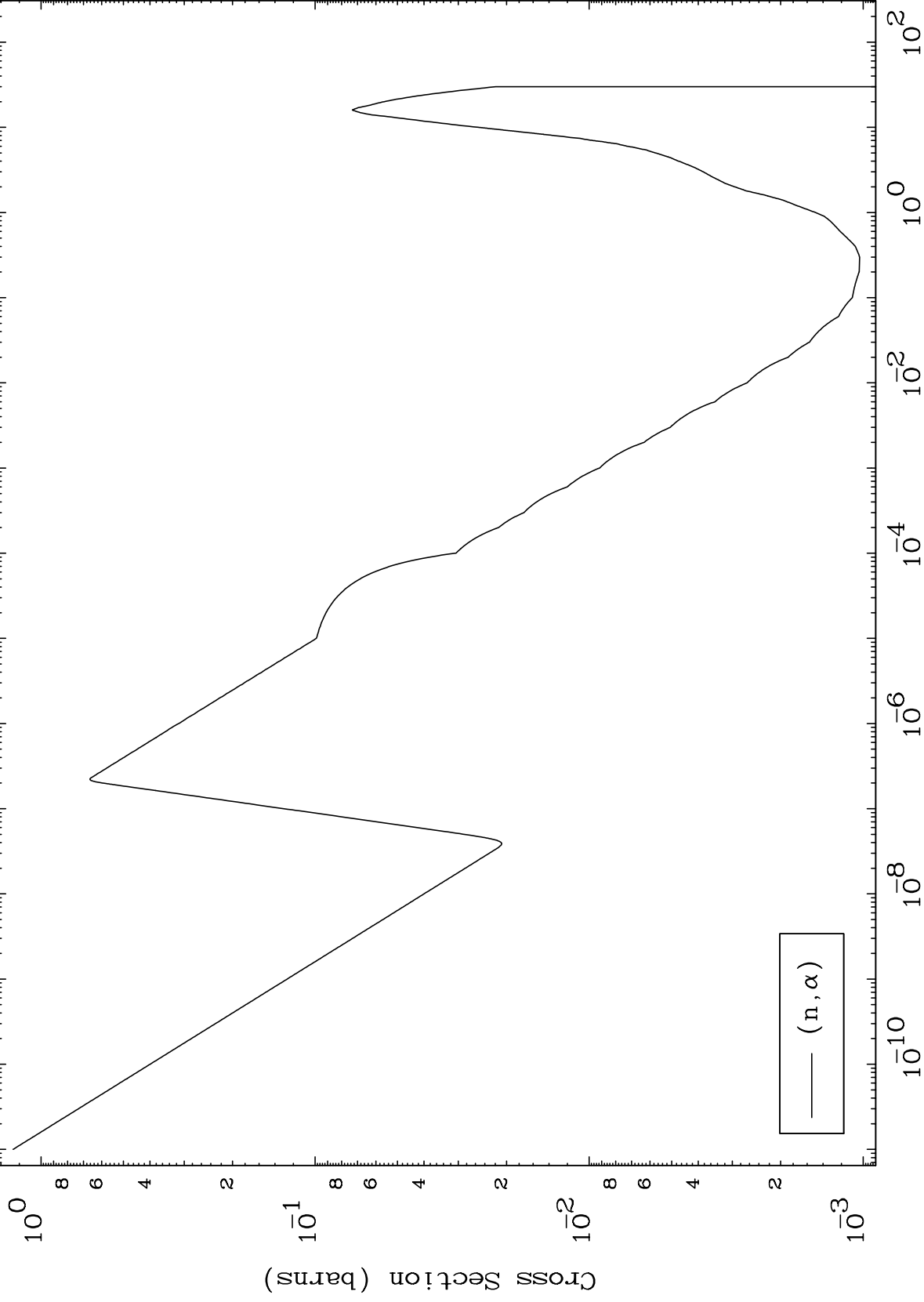
Incident Energy (MeV)

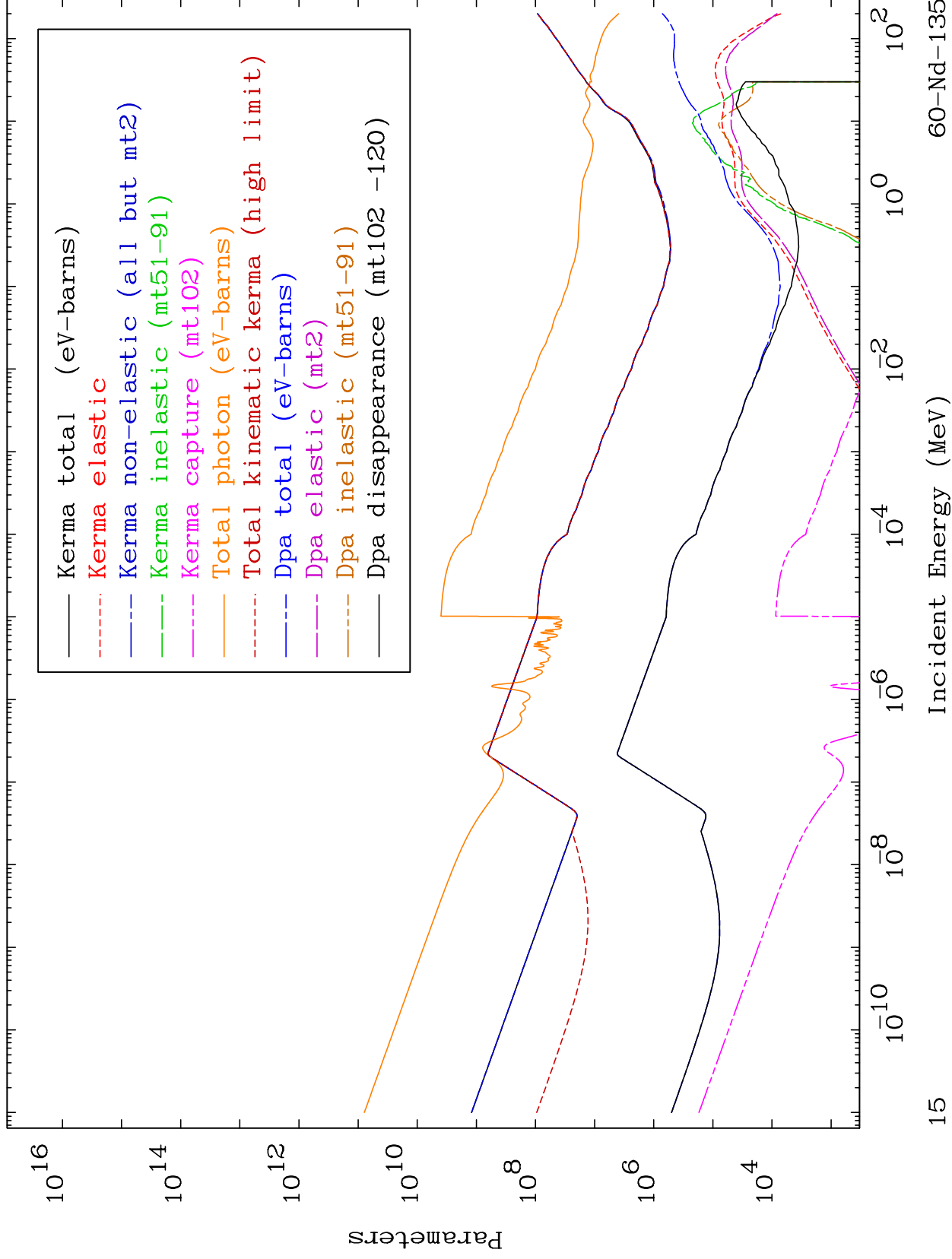
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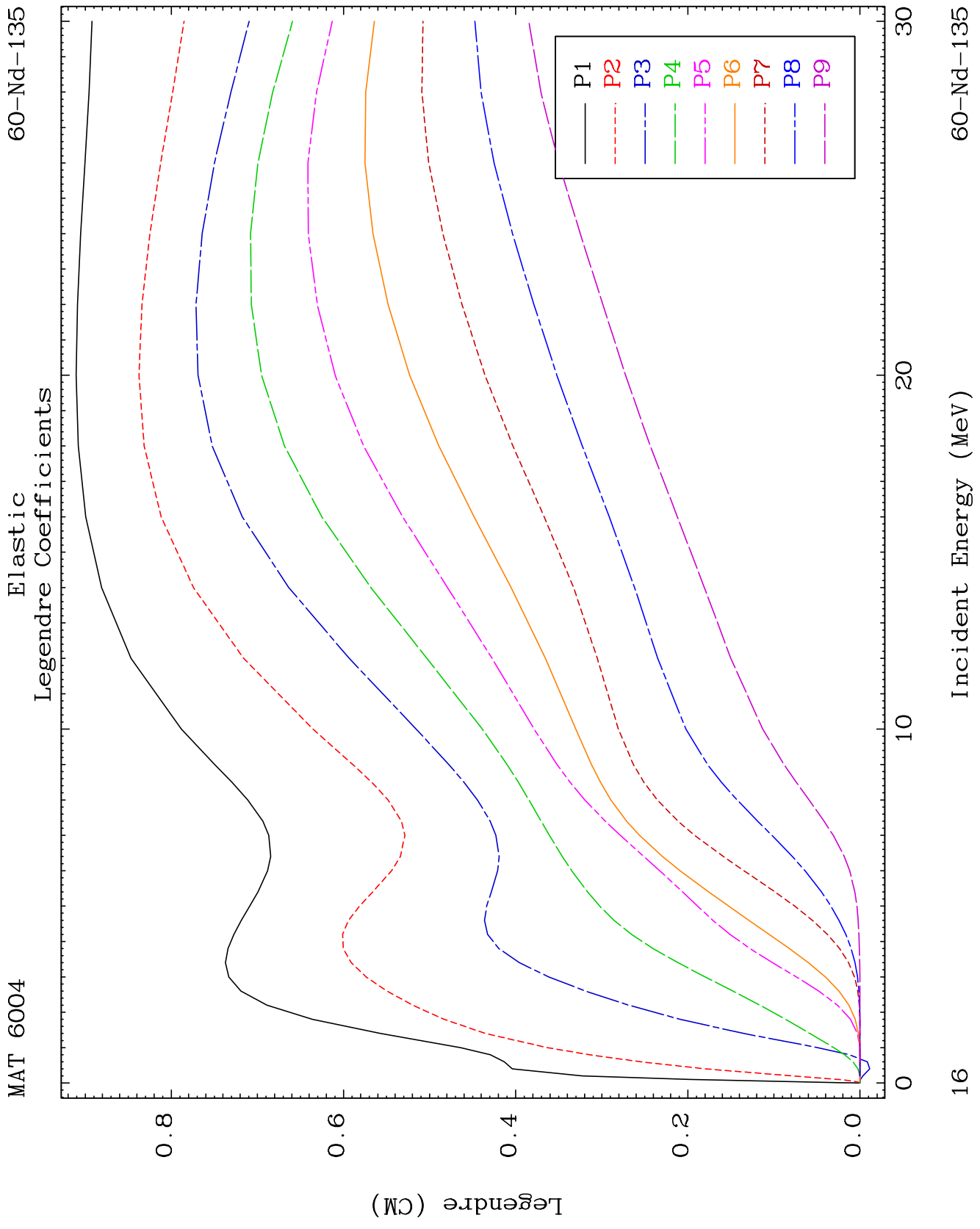
MAT 6004

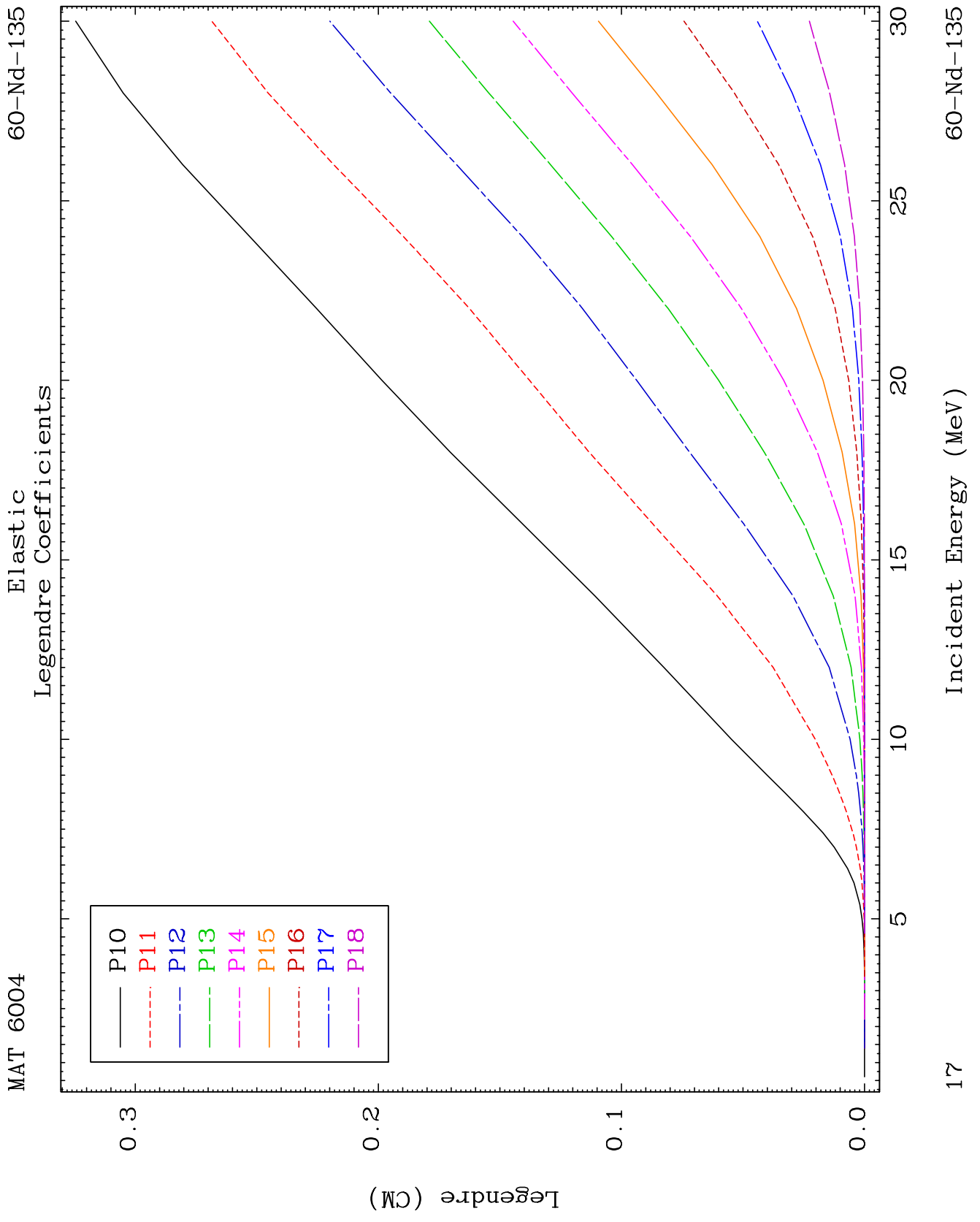
(n, α) Levels
293 Kelvin Cross Sections

60-Nd-135





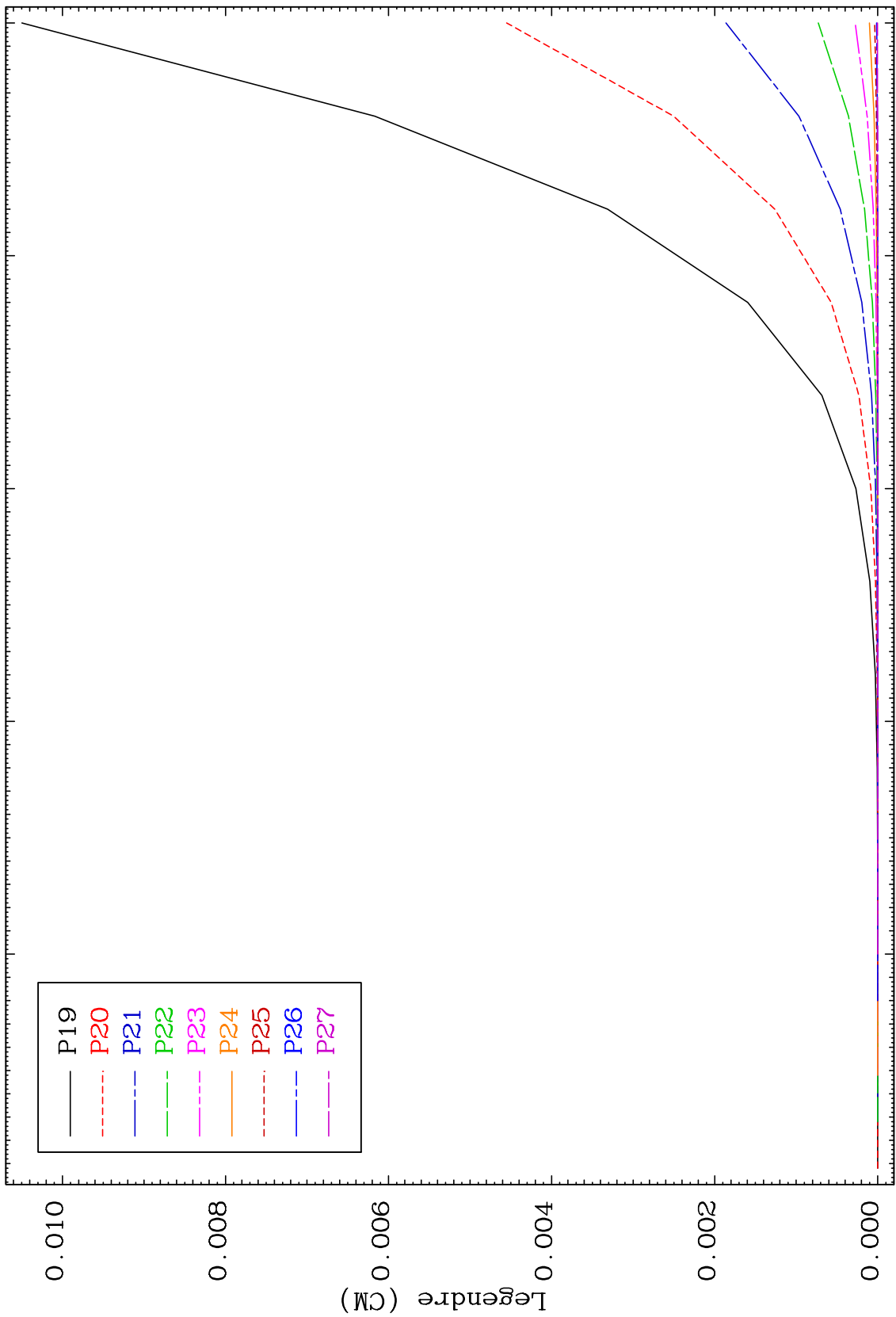




MAT 6004

Elastic Legendre Coefficients

60-Nd-135



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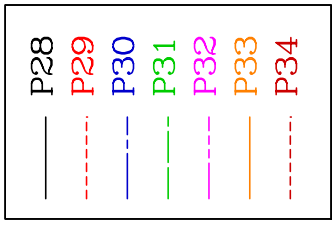
Incident Energy (MeV)

60-Nd-135

MAT 6004

Elastic
Legendre Coefficients

60-Nd-135



$\times 10^{-6}$
Legendre (CM)



19

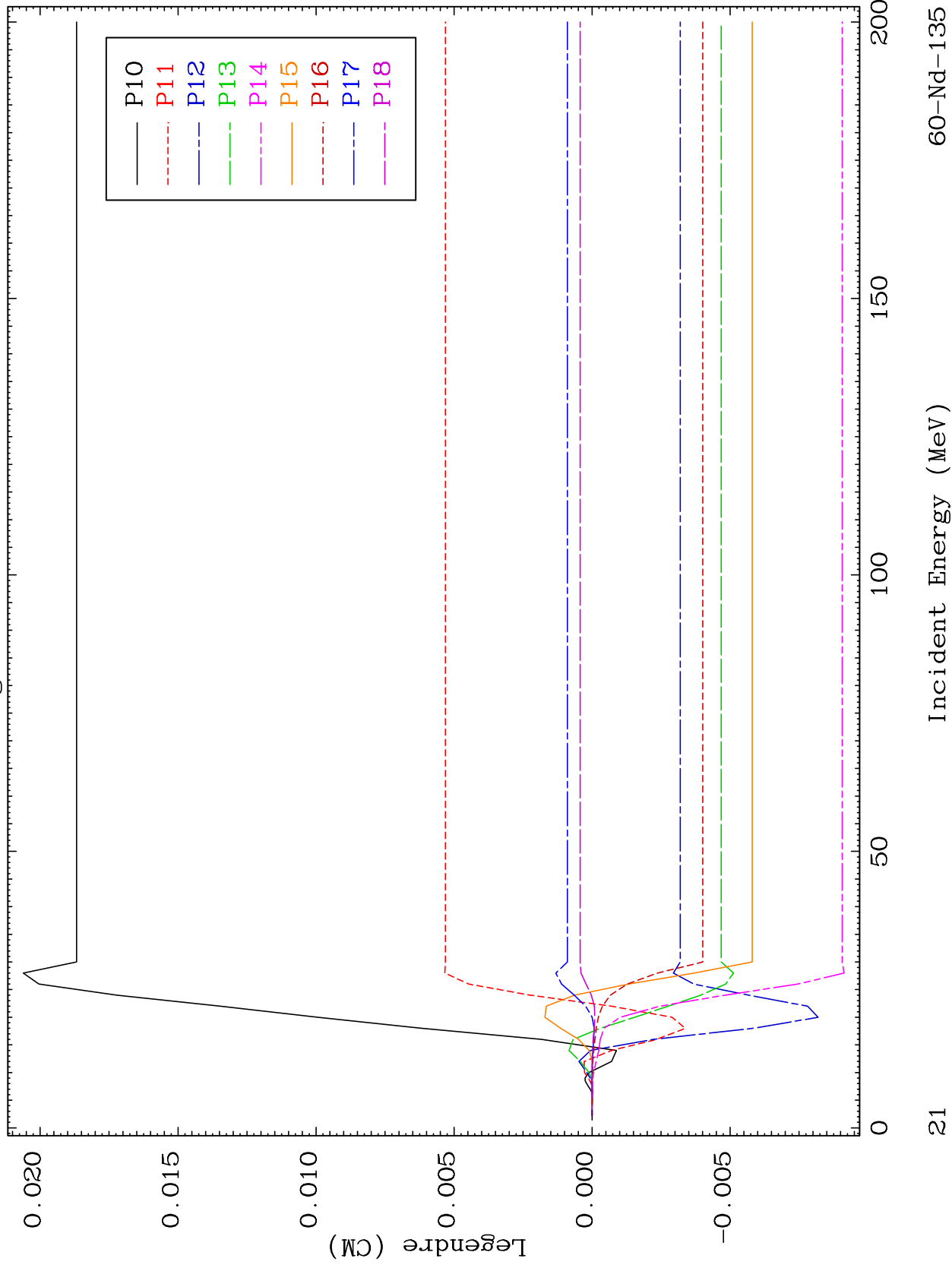
Incident Energy (MeV)

60-Nd-135

MAT 6004

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

60-Nd-135



21

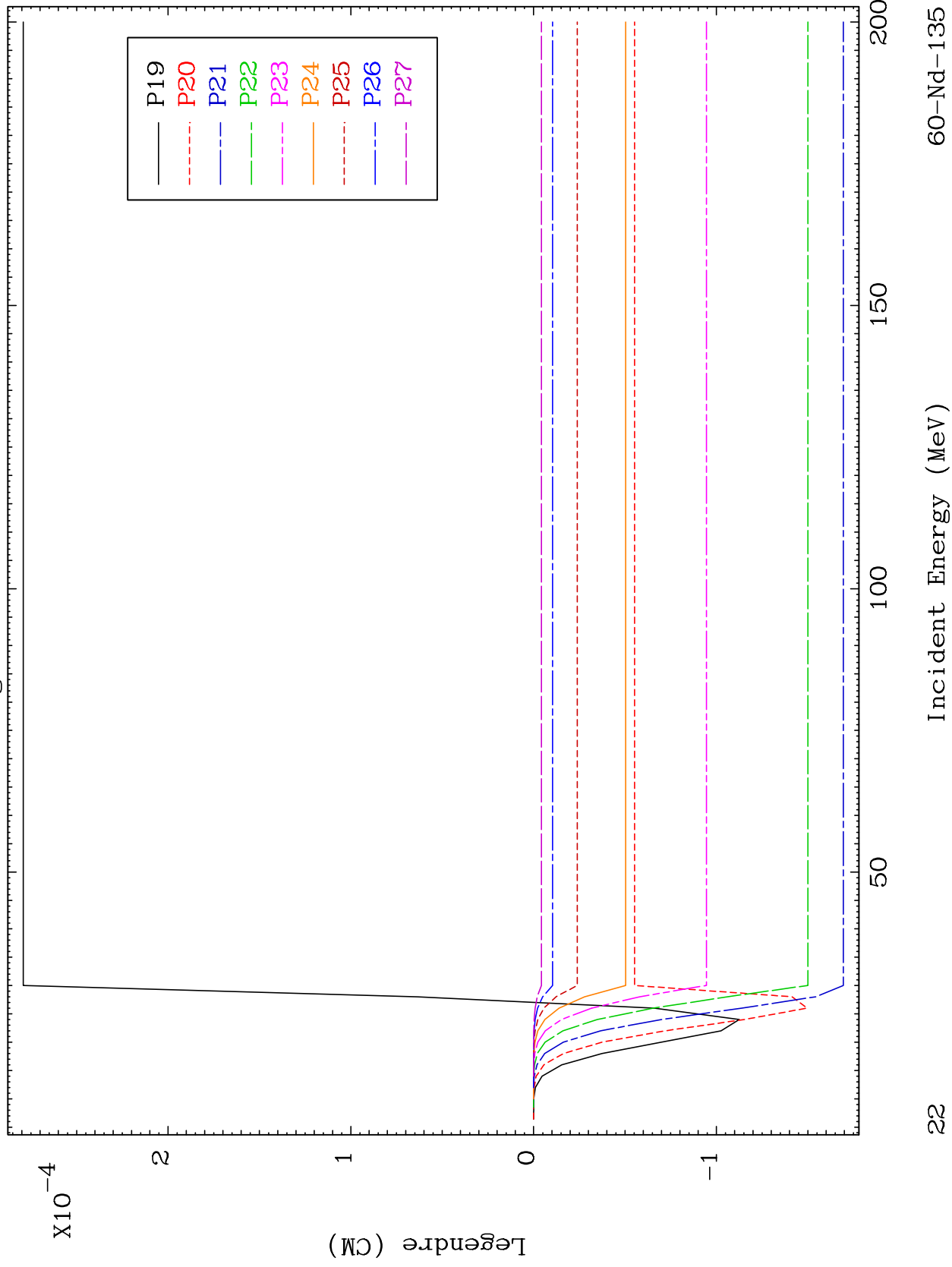
Incident Energy (MeV)

60-Nd-135

MAT 6004

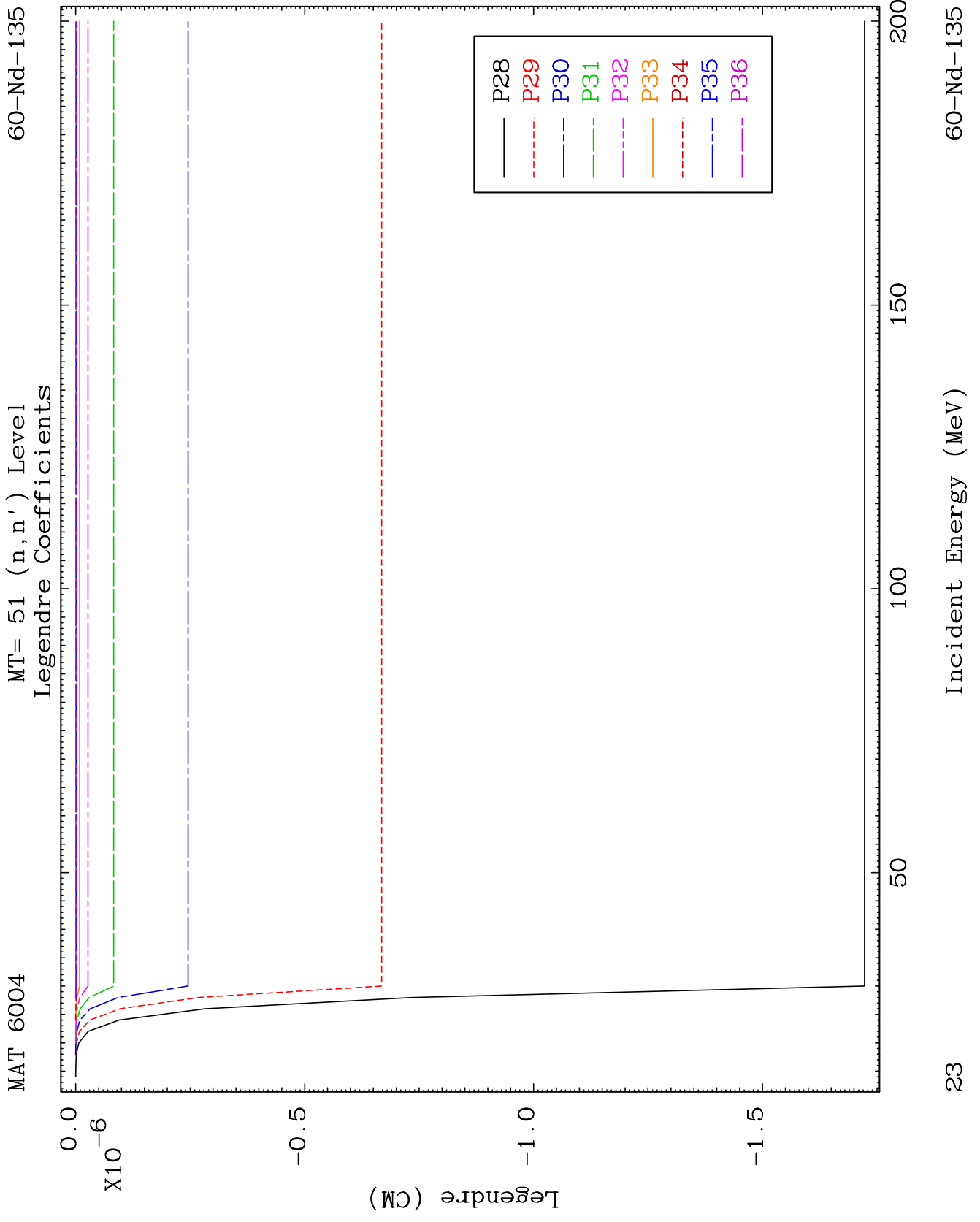
MT= 51 (n,n') Level
Legendre Coefficients

60-Nd-135



22

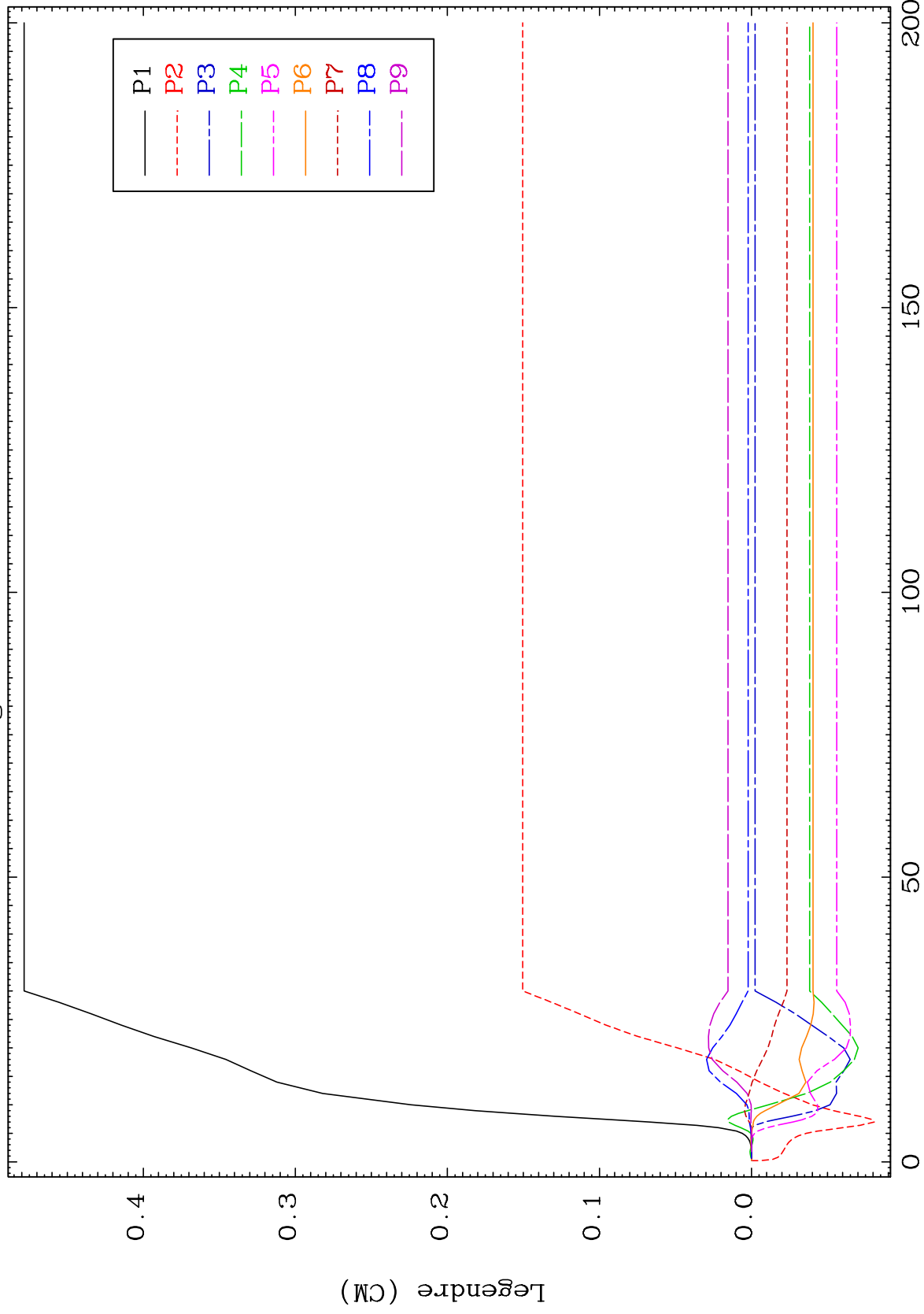
60-Nd-135



MAT 6004

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

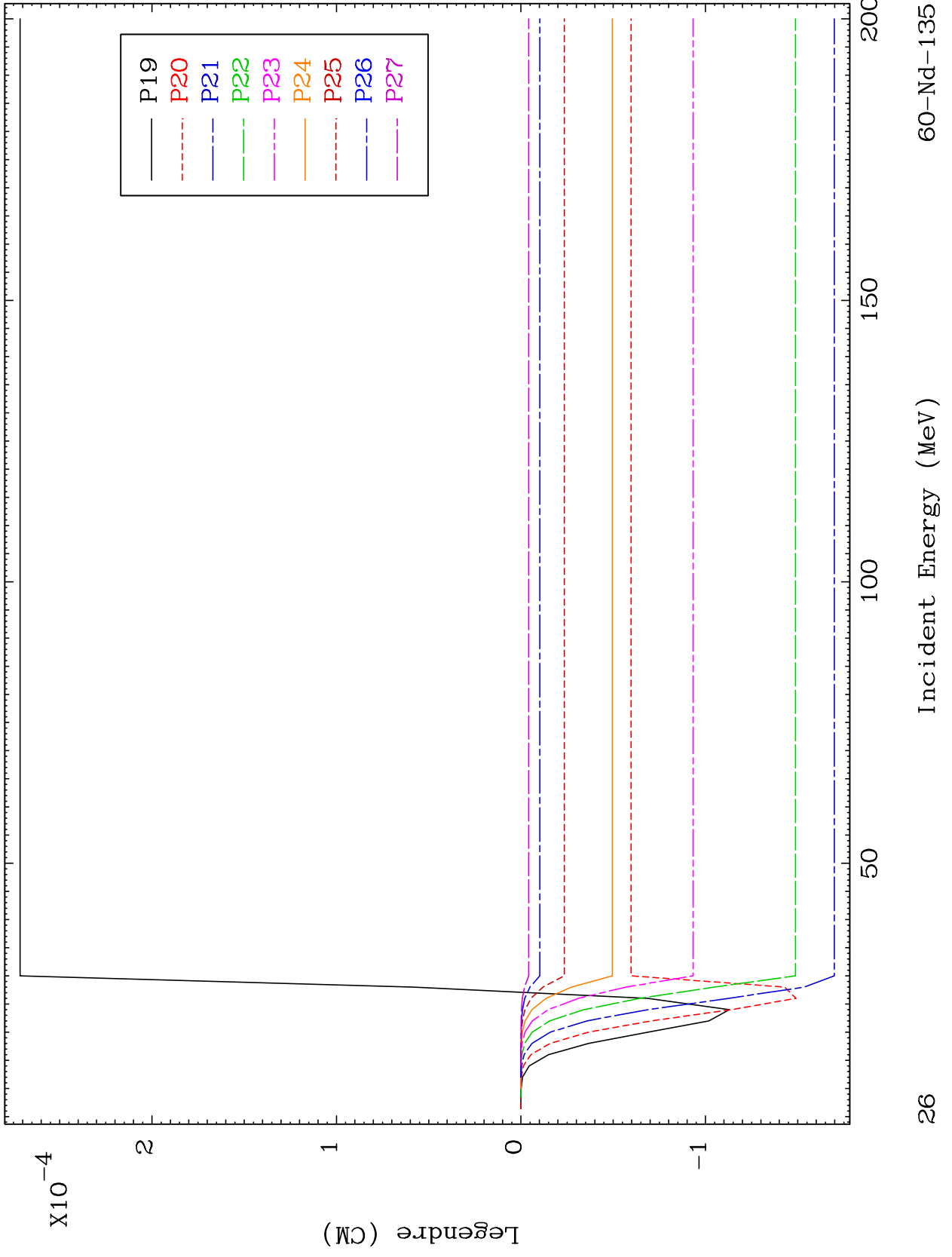
60-Nd-135

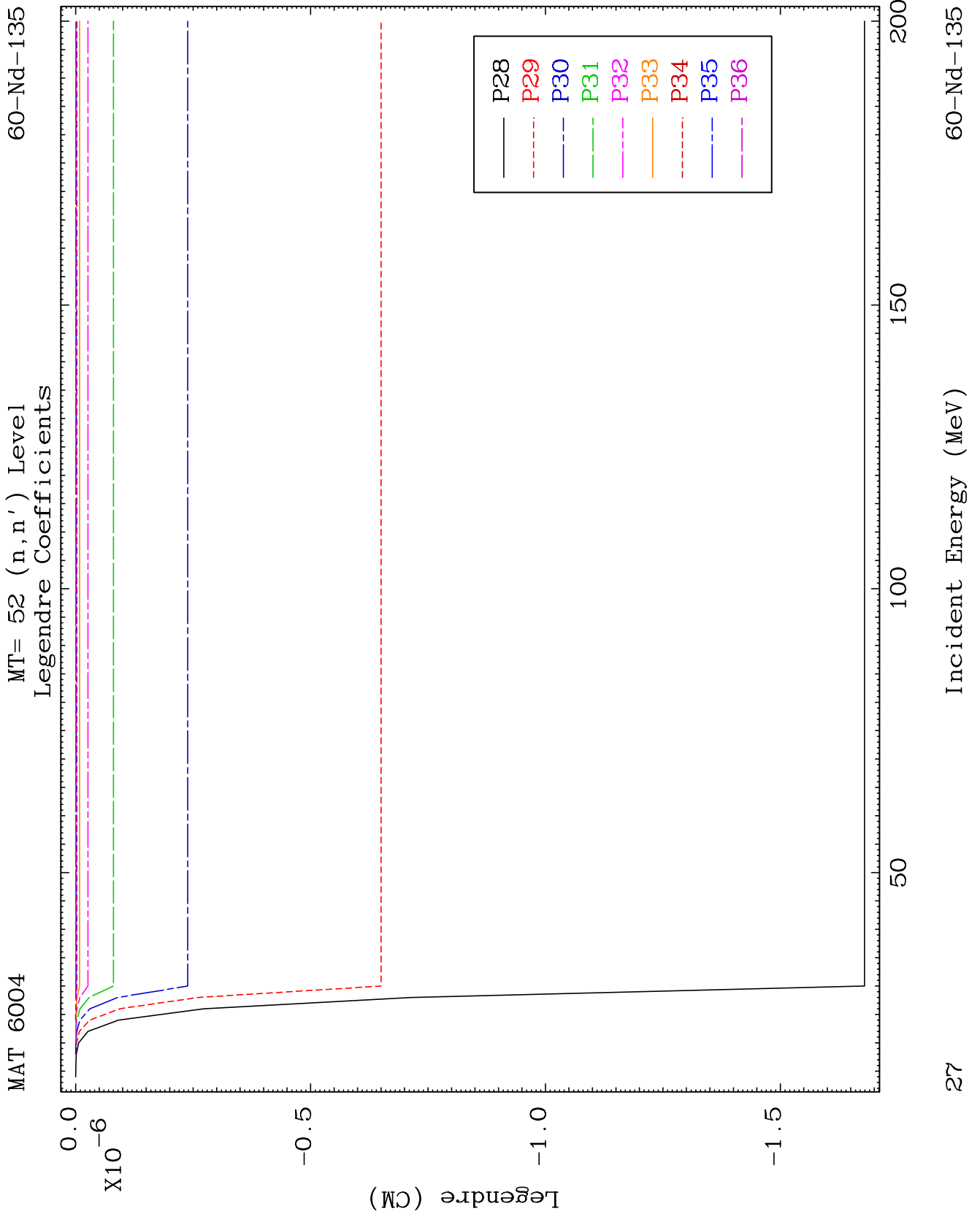


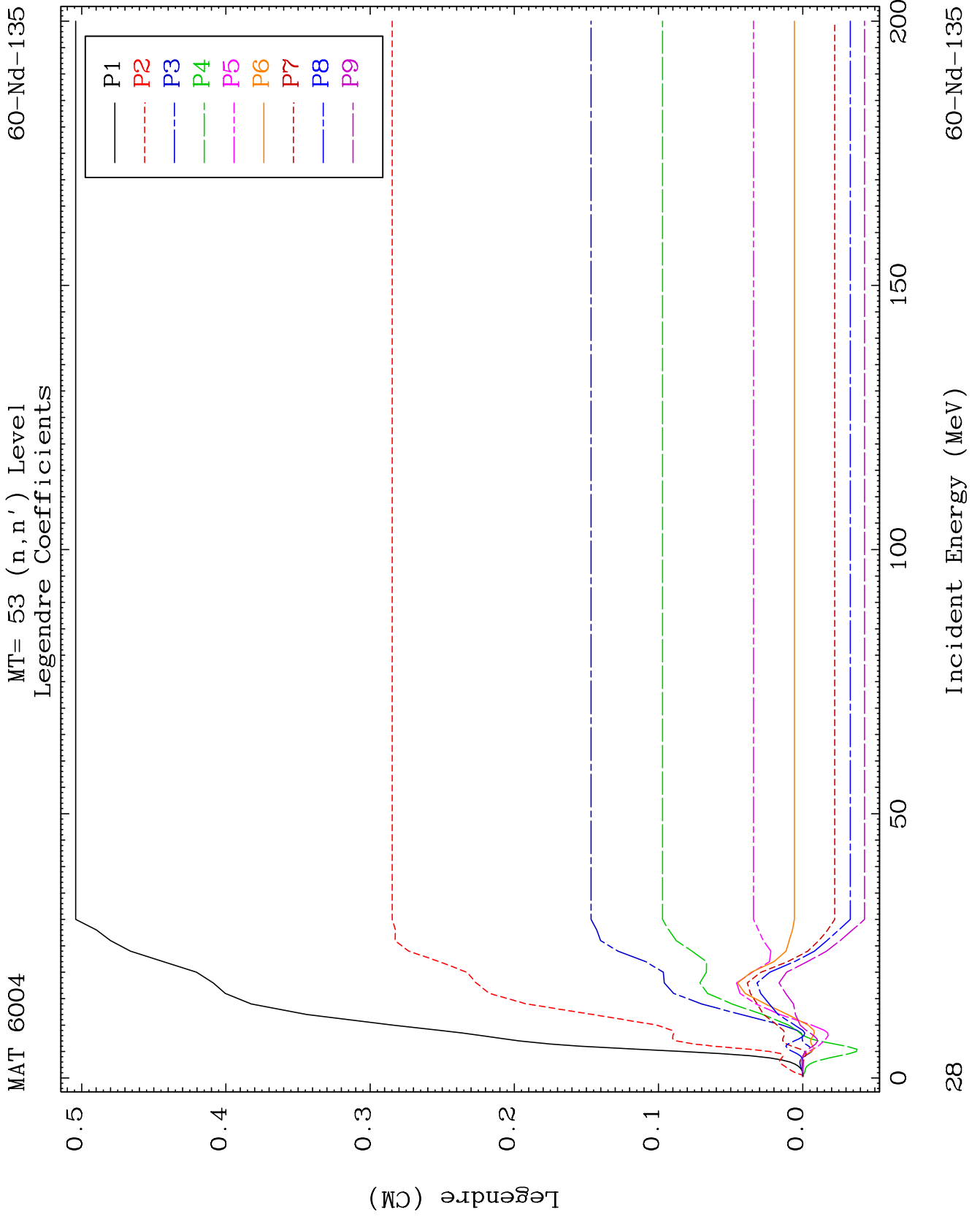
24

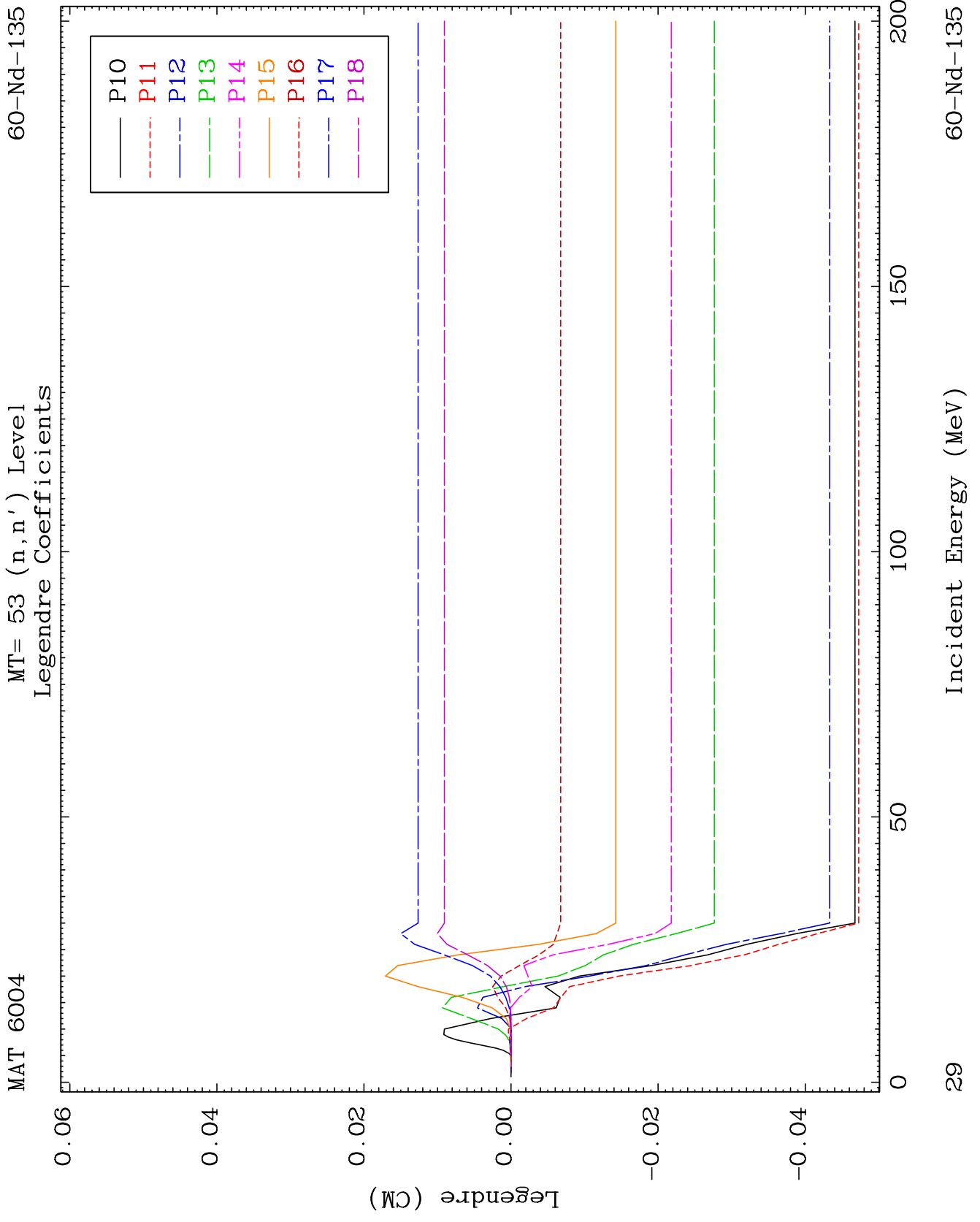
Incident Energy (MeV)

60-Nd-135





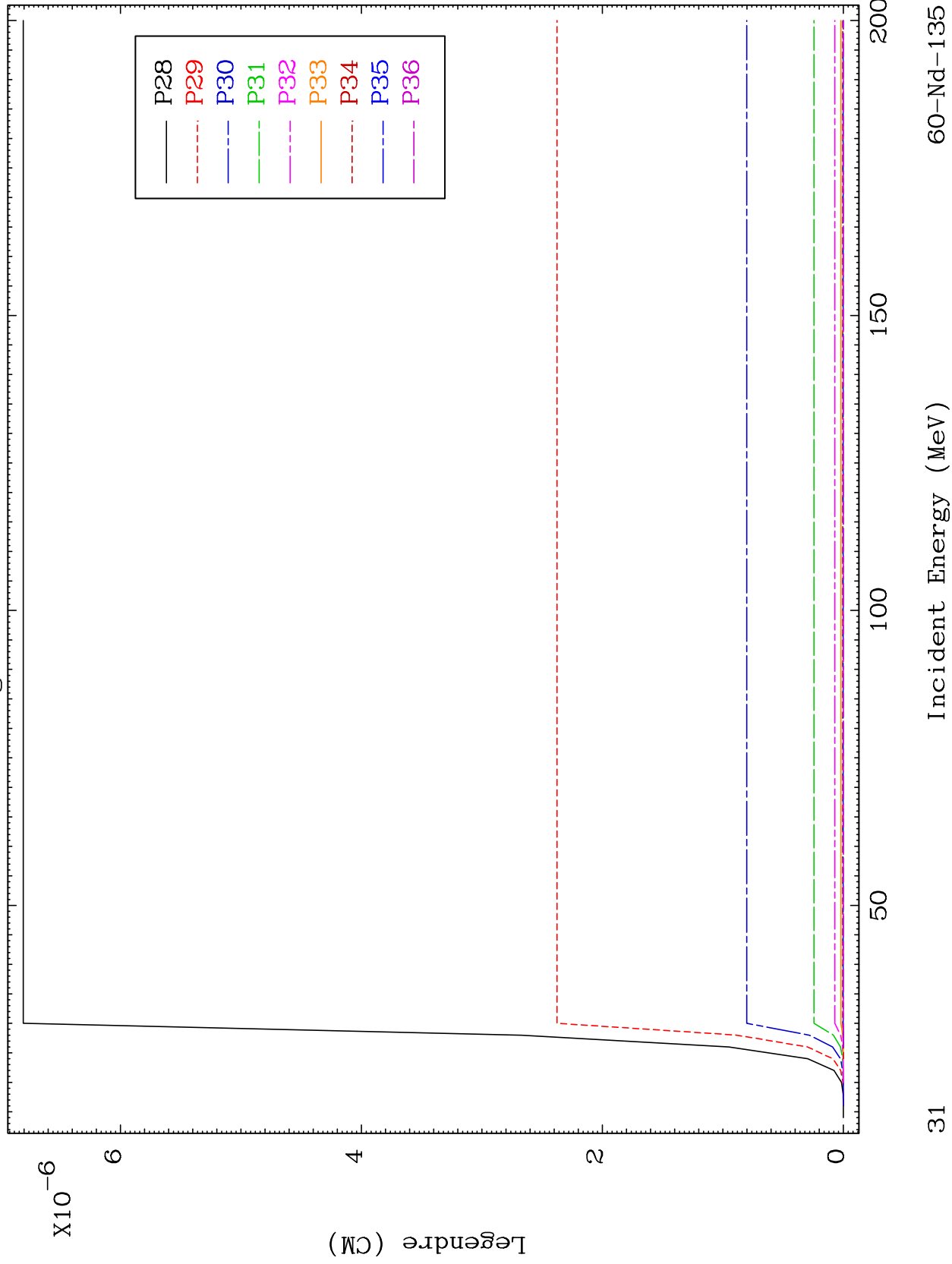




MAT 6004

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

60-Nd-135



31

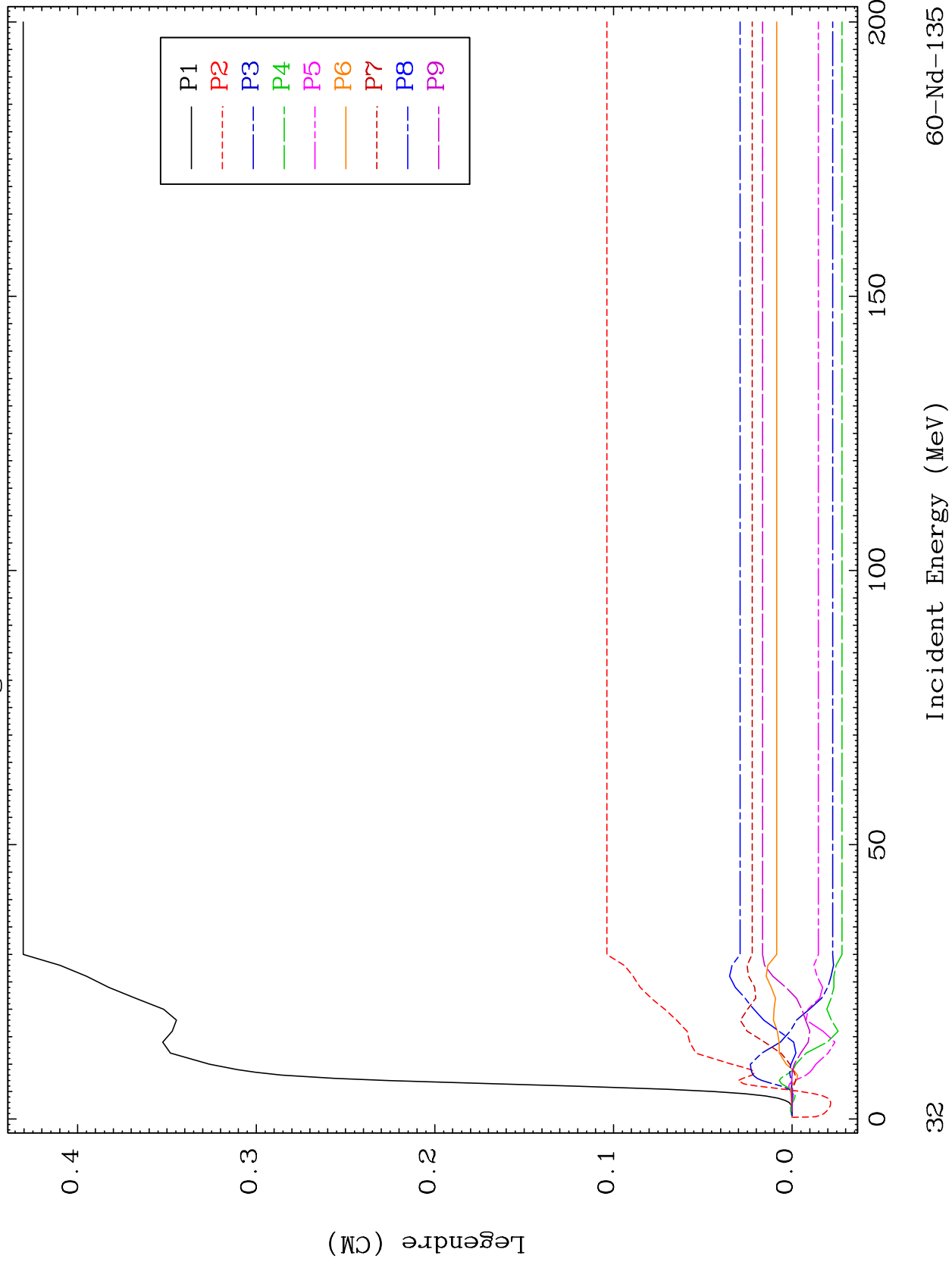
Incident Energy (MeV)

60-Nd-135

MAT 6004

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

60-Nd-135



32

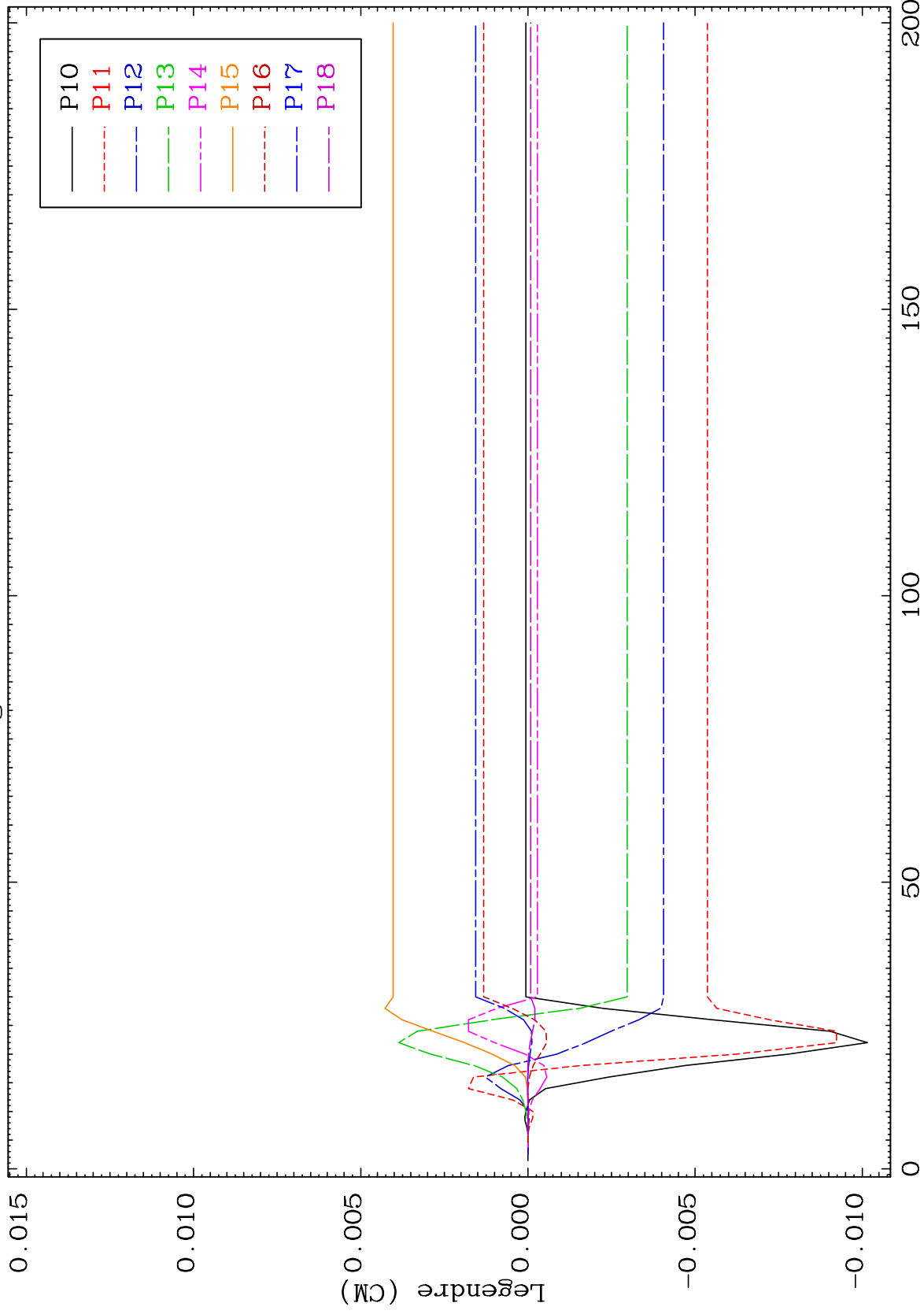
Incident Energy (MeV)

60-Nd-135

MAT 6004

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

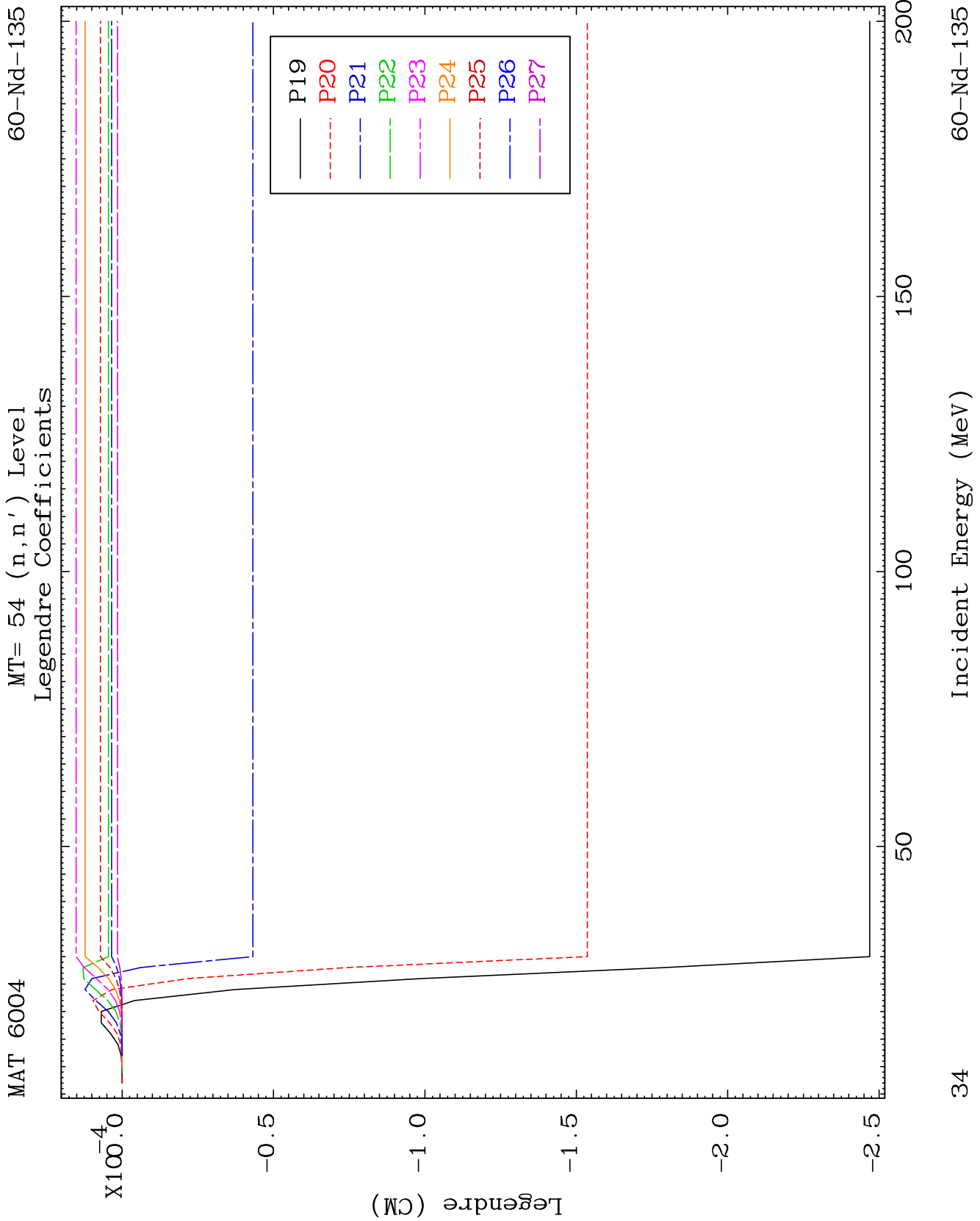
60-Nd-135



33

Incident Energy (MeV)

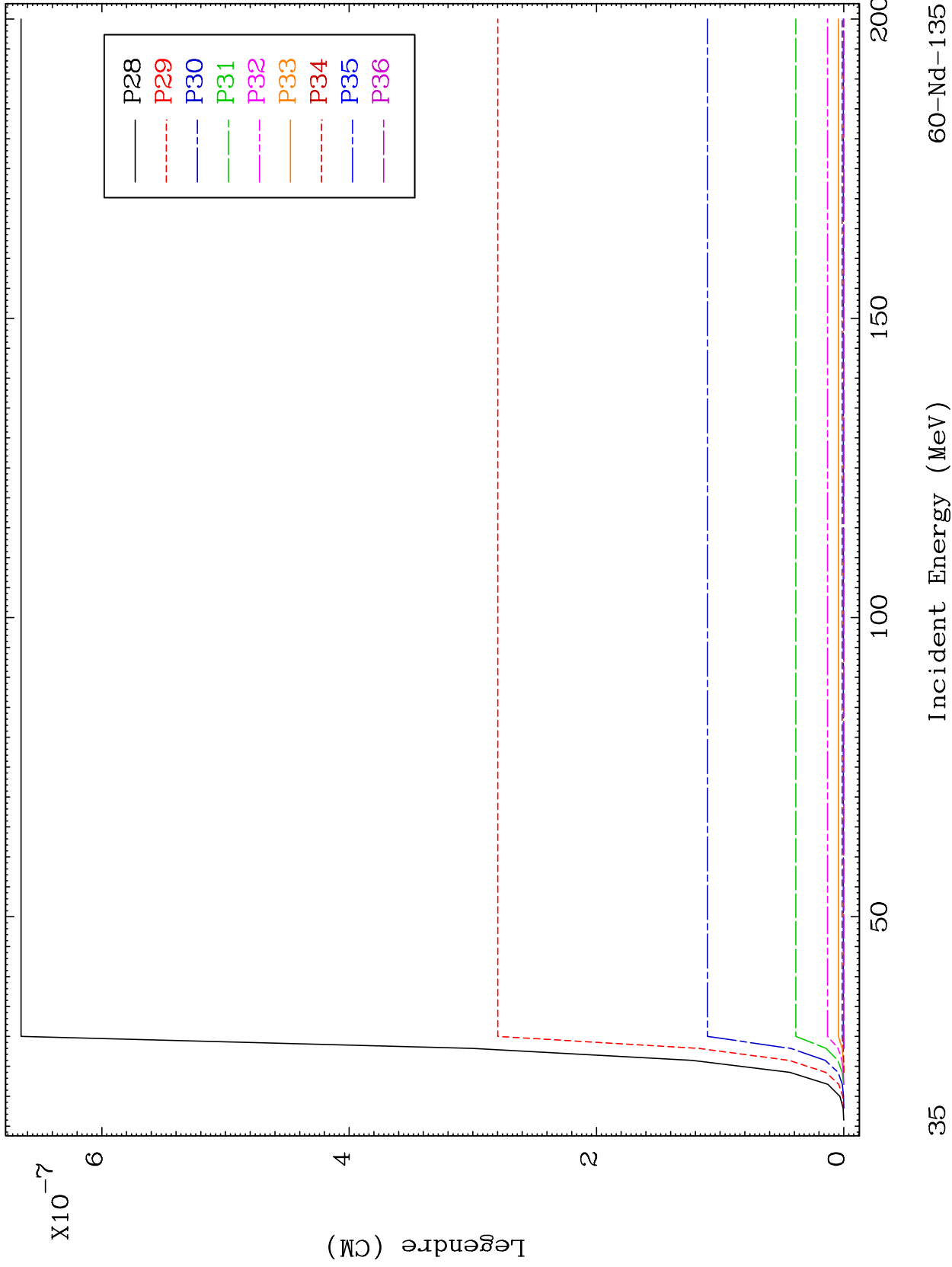
60-Nd-135



MAT 6004

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

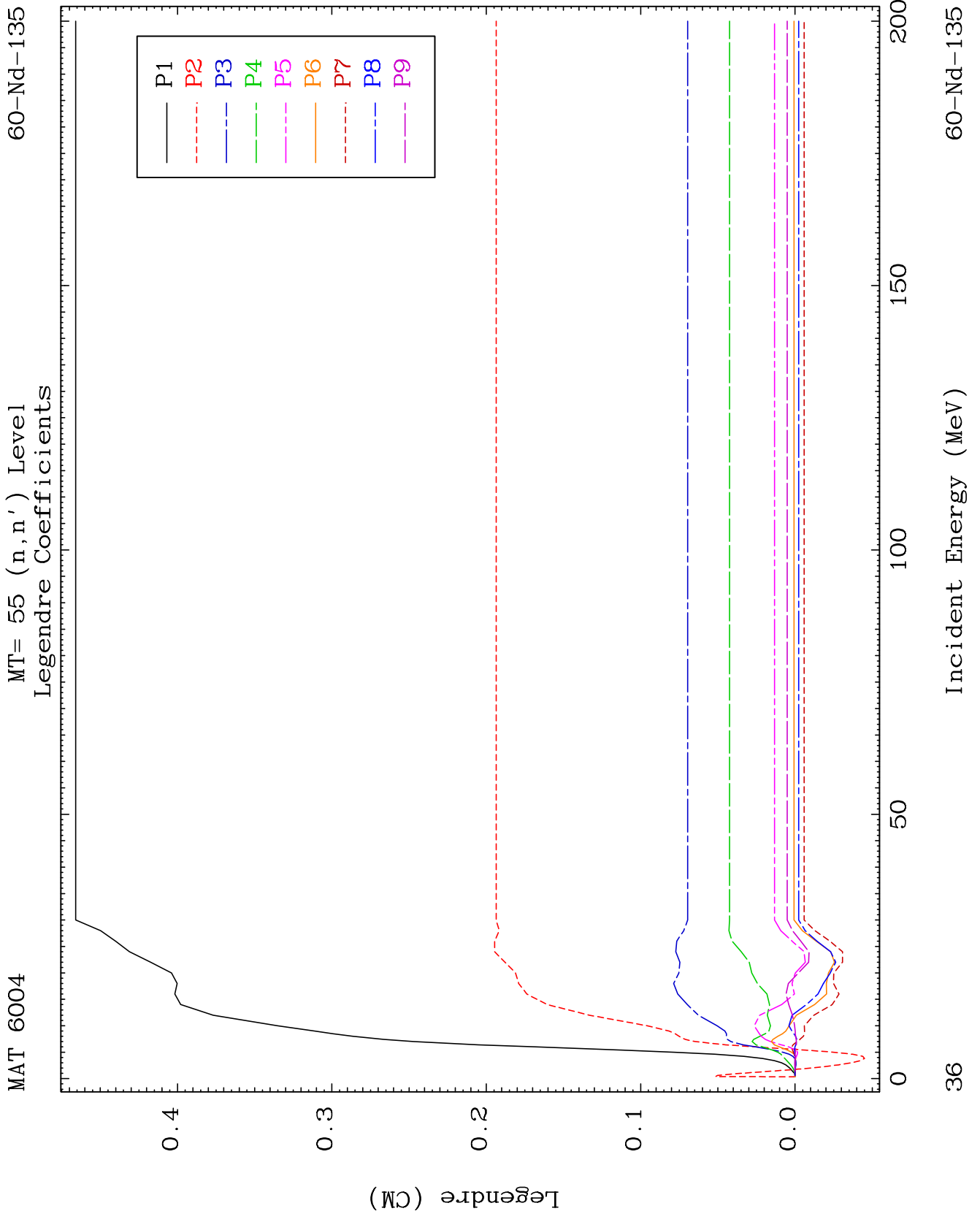
60-Nd-135



35

Incident Energy (MeV)

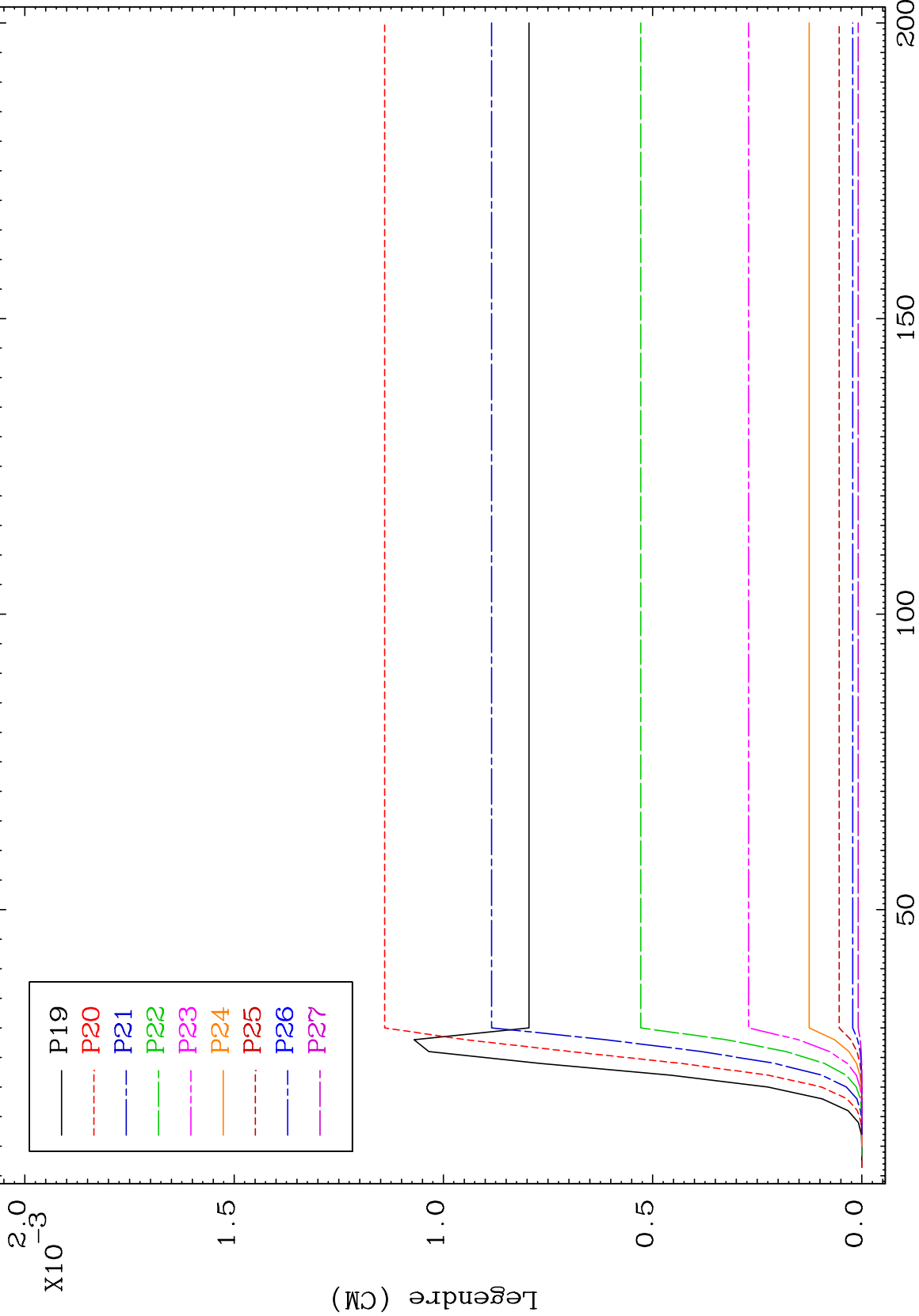
60-Nd-135



MAT 6004

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

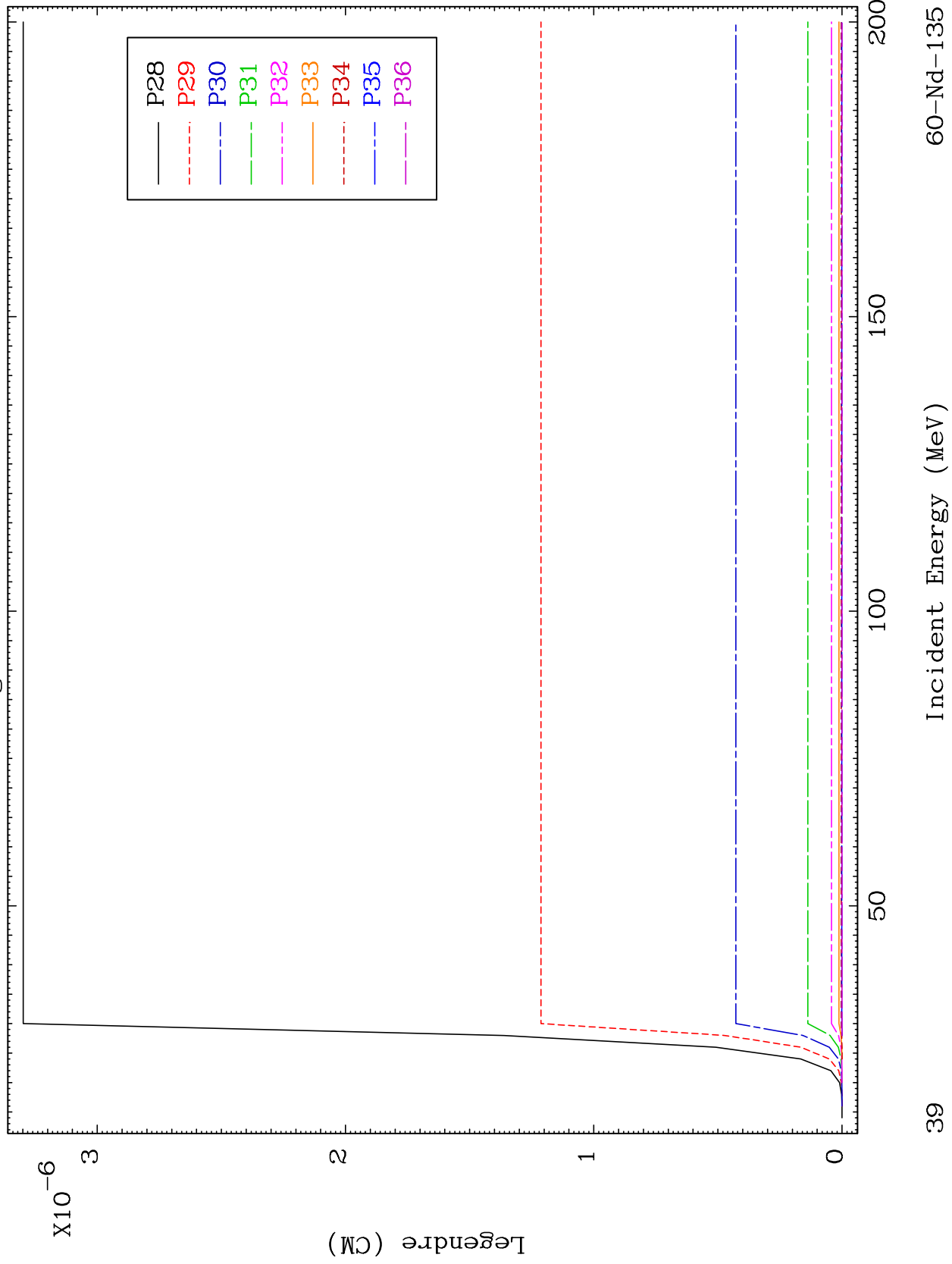
60-Nd-135



MAT 6004

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

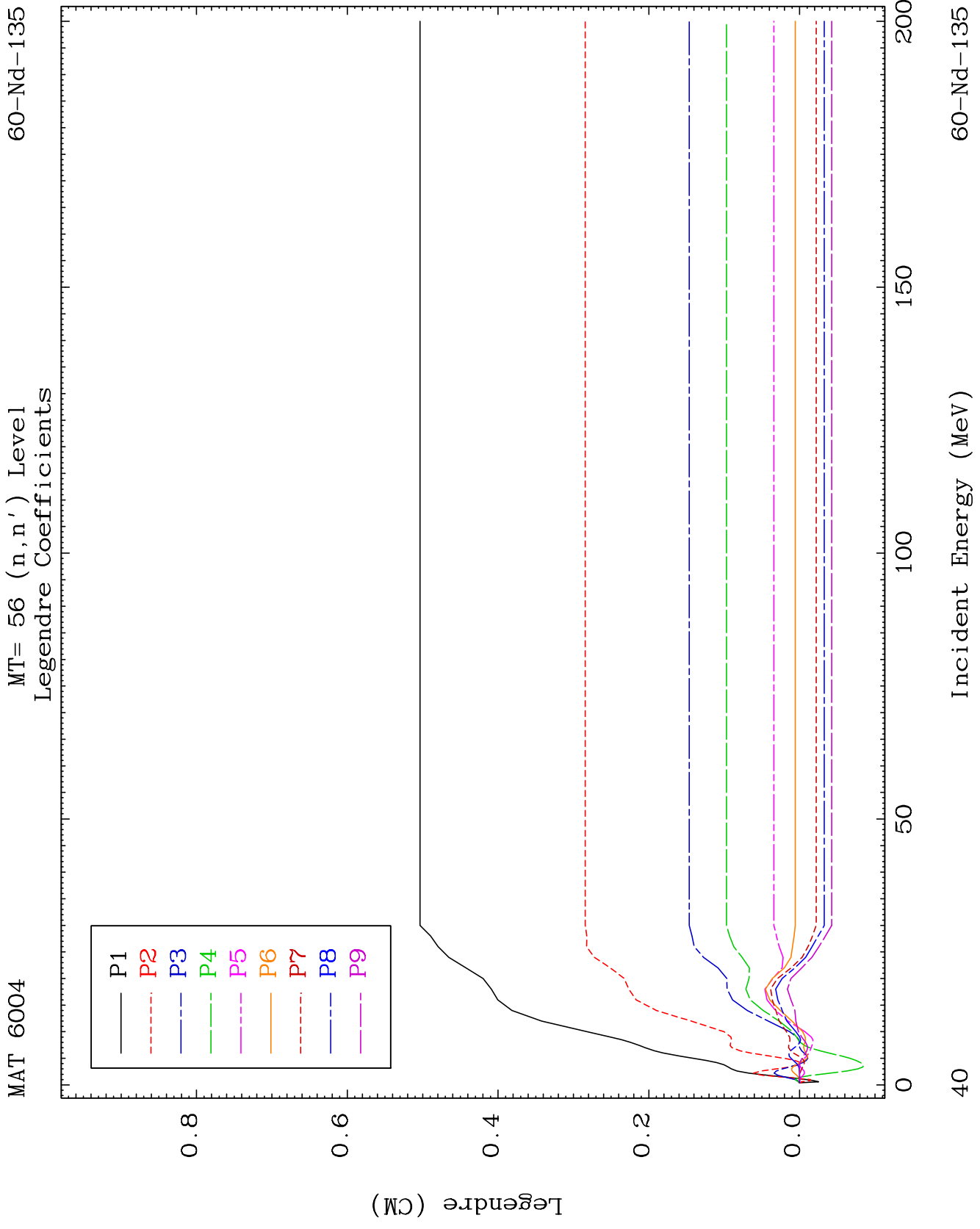
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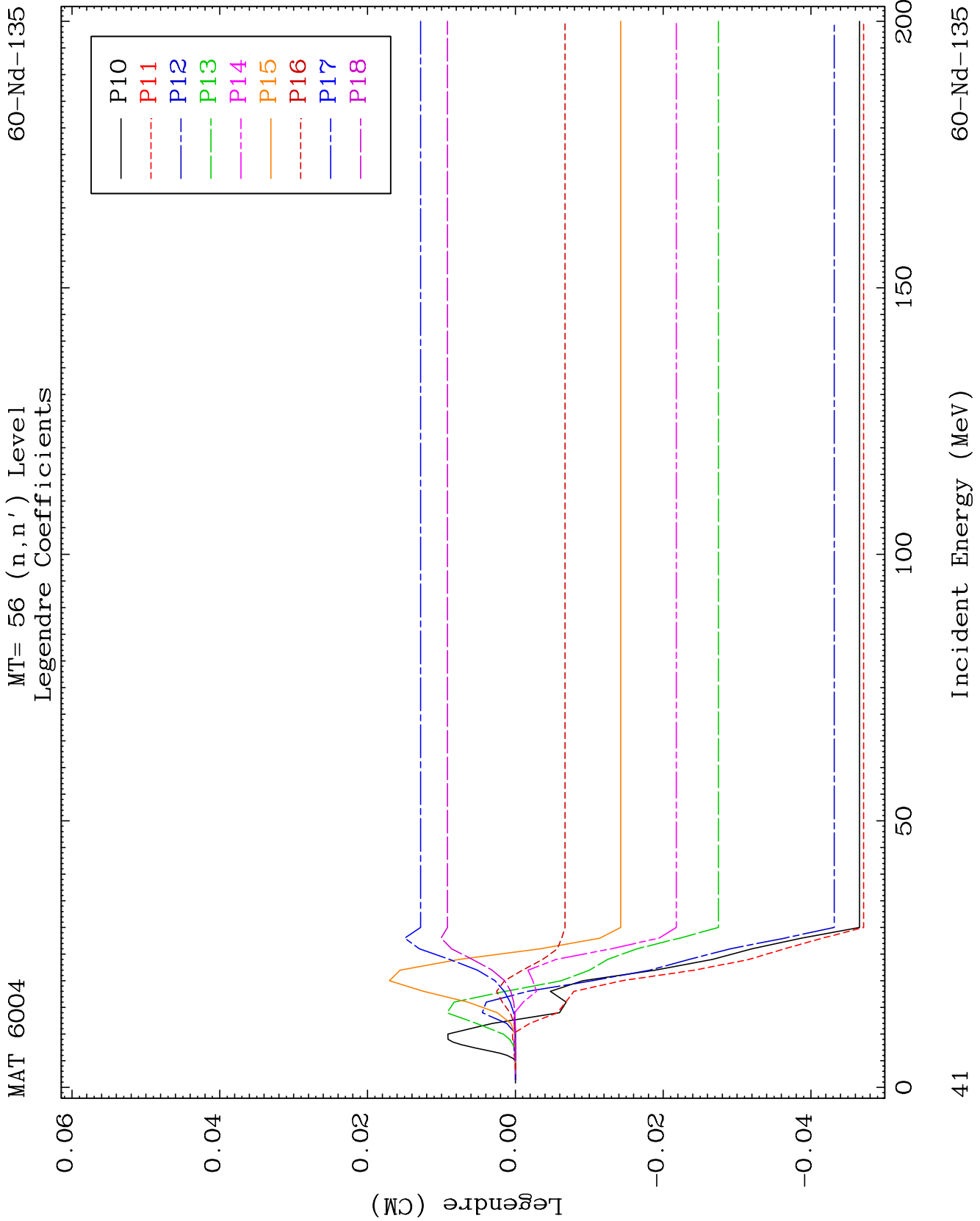


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Incident Energy (MeV)

60-Nd-135

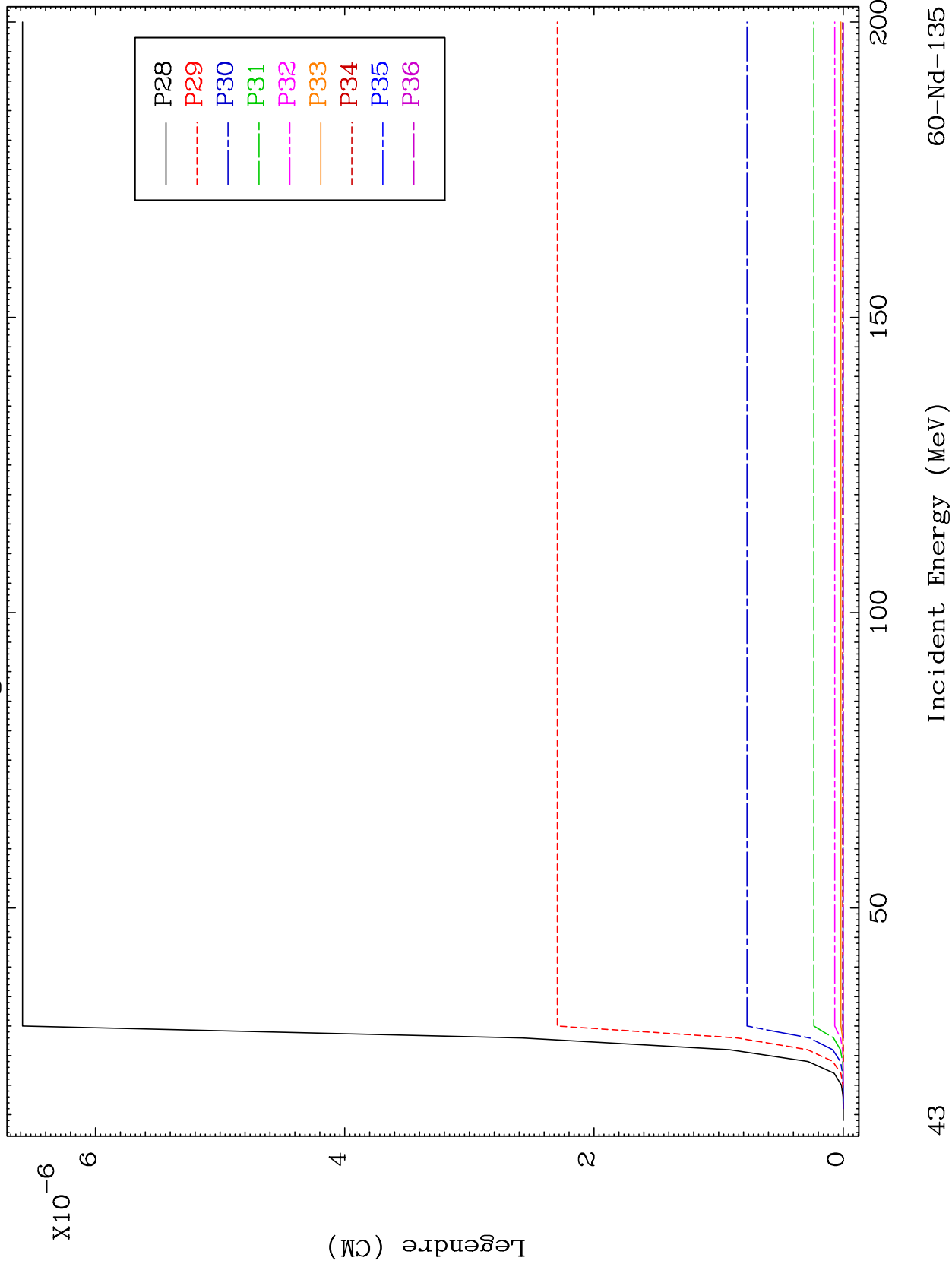




MAT 6004

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

60-Nd-135



43

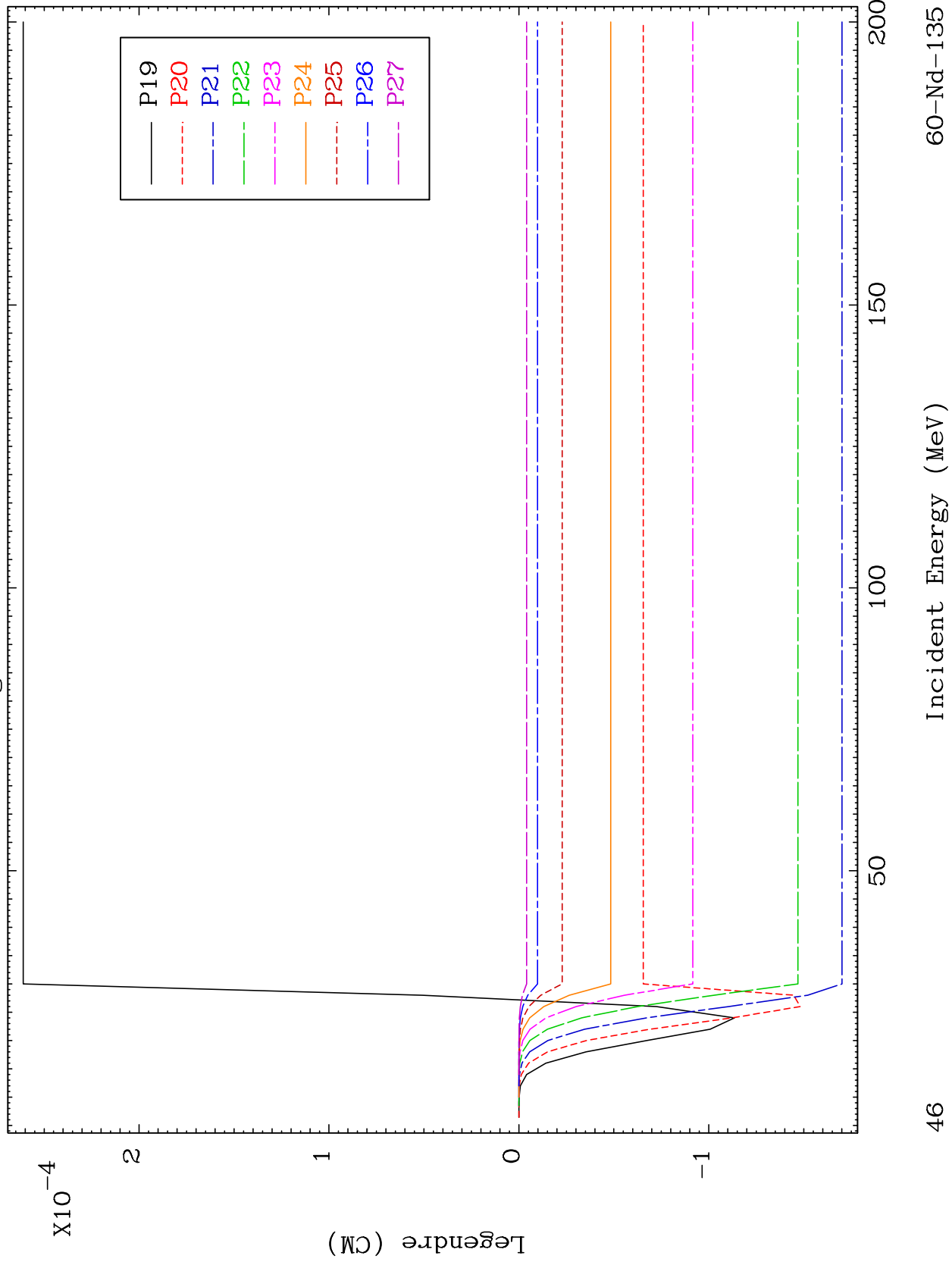
Incident Energy (MeV)

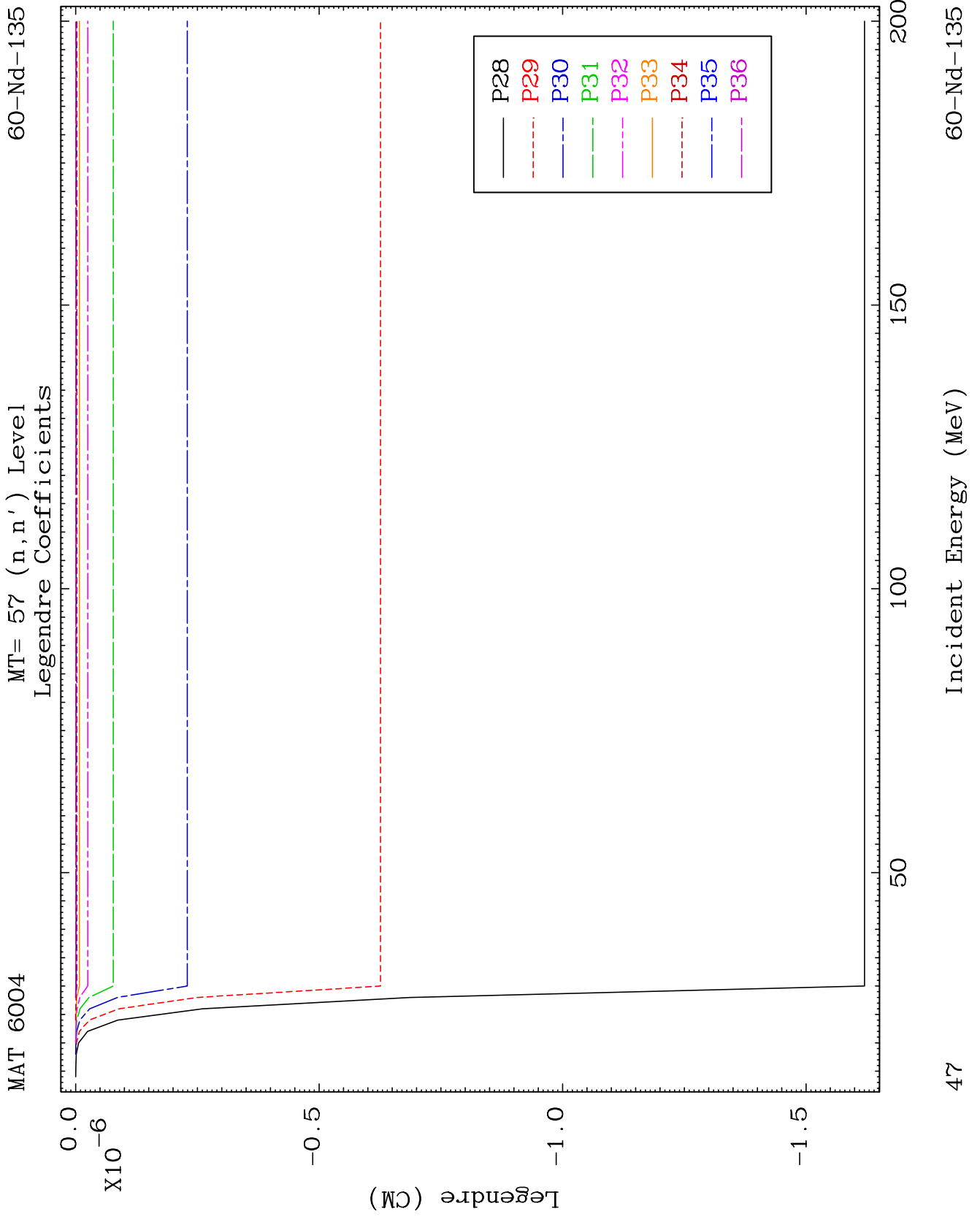
60-Nd-135

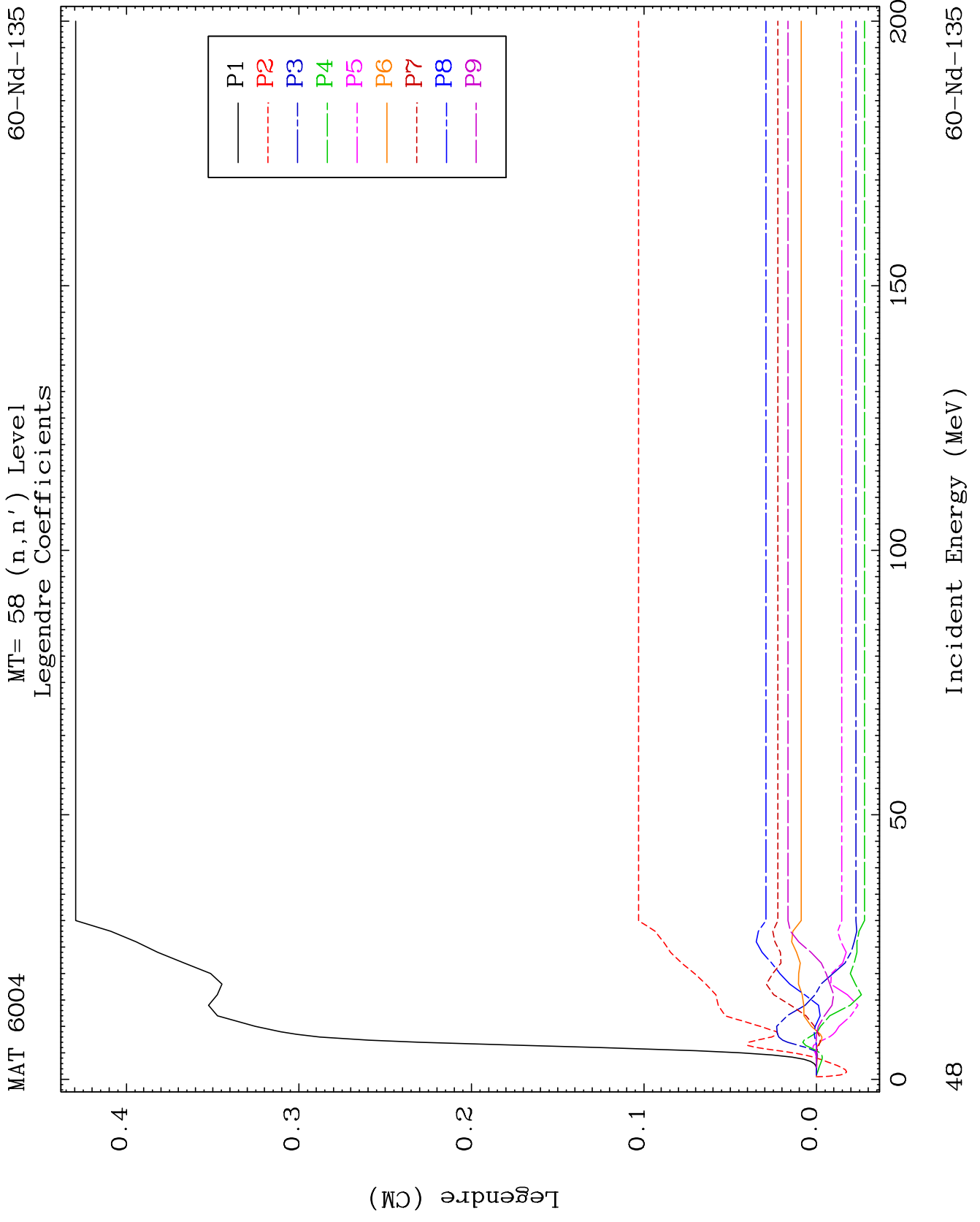
MAT 6004

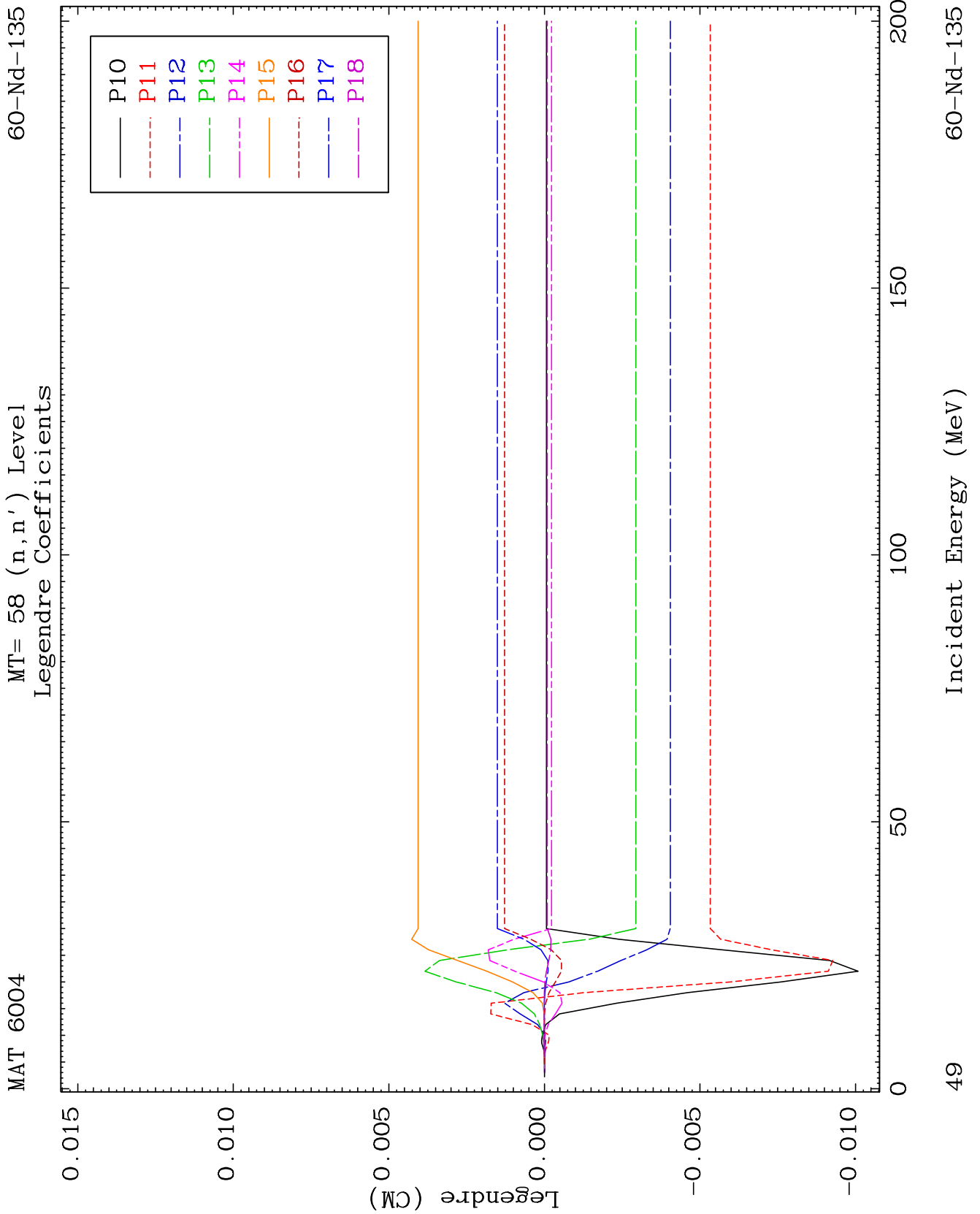
MT= 57 (n,n') Level
Legendre Coefficients

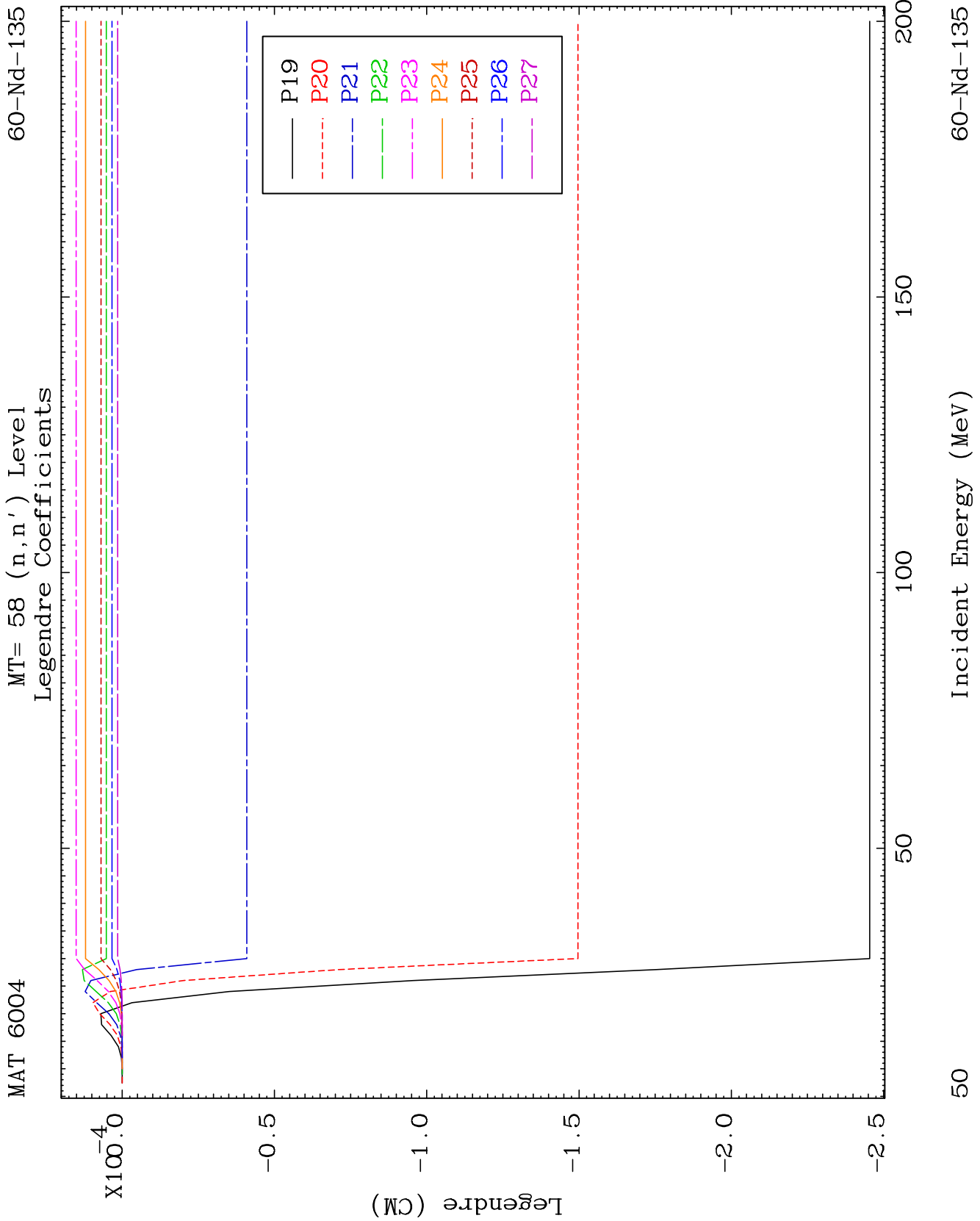
60-Nd-135







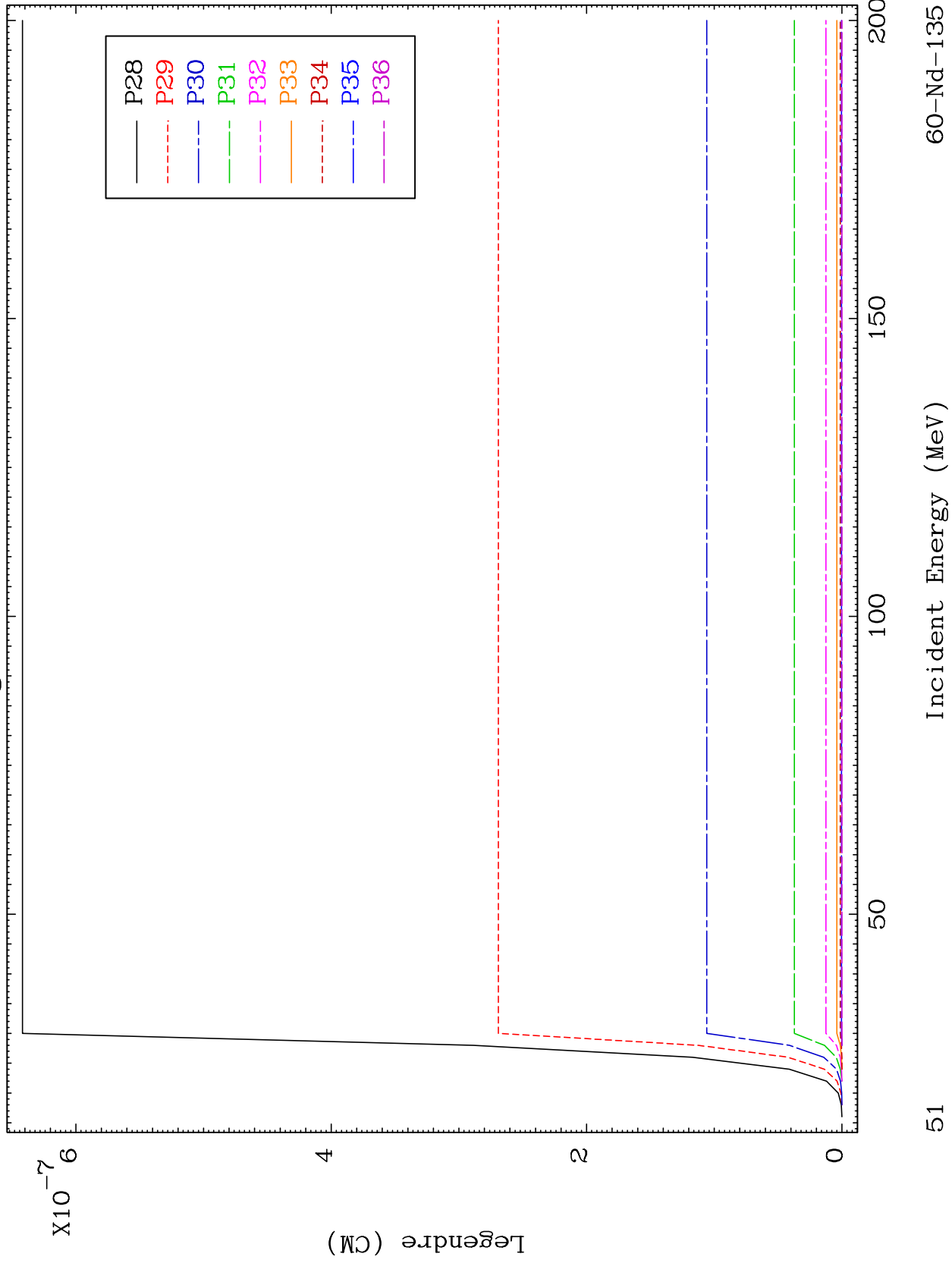




MAT 6004

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

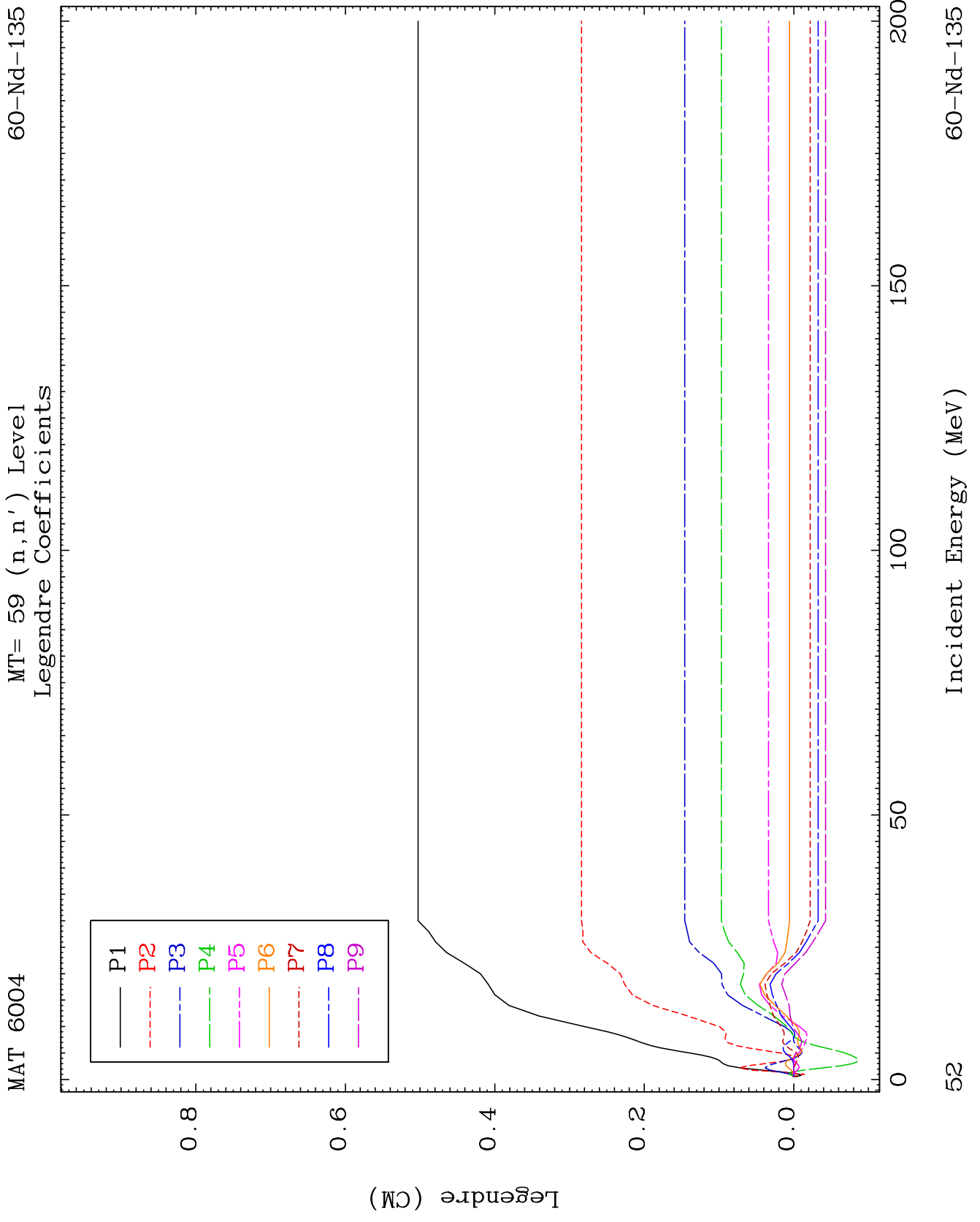
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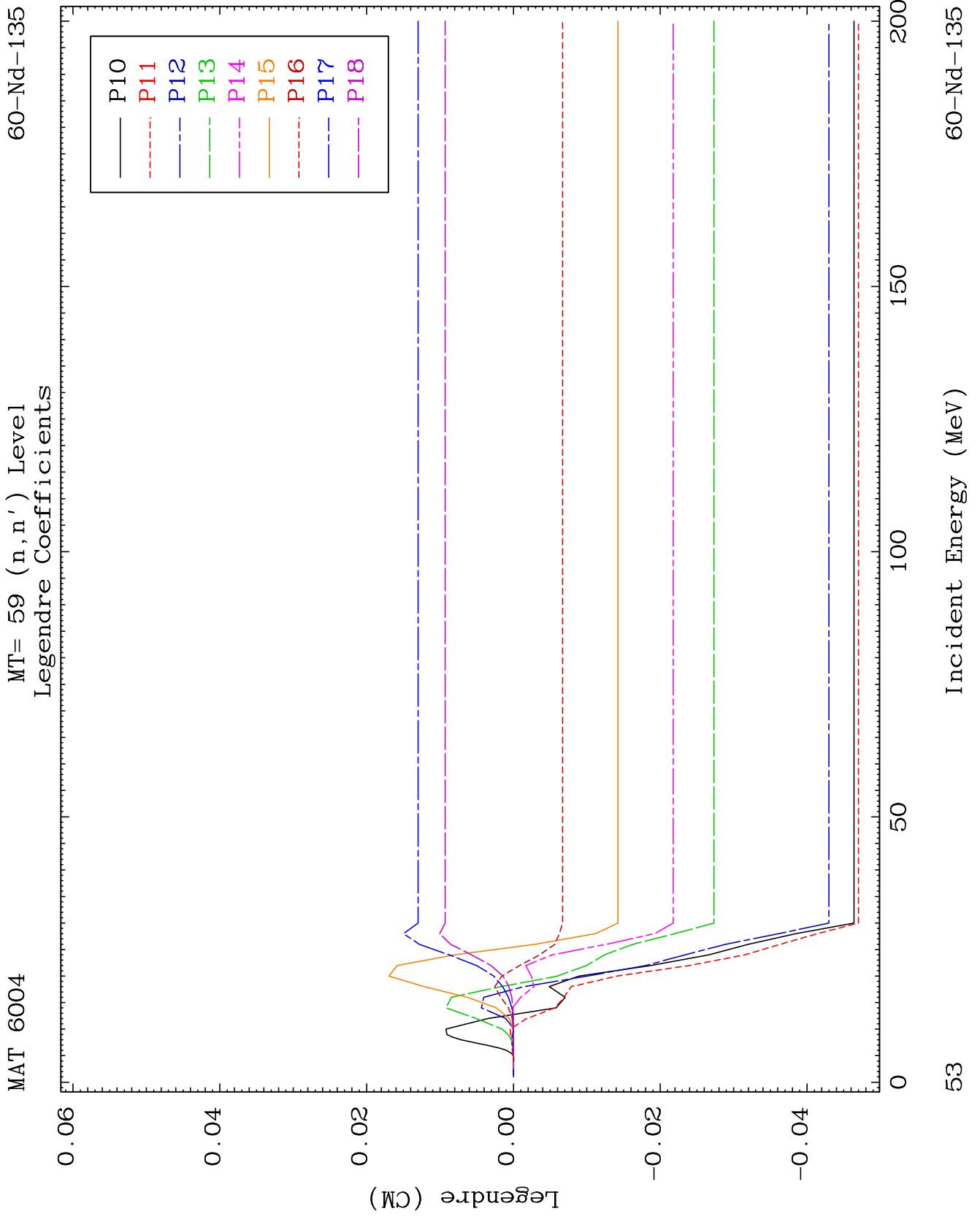


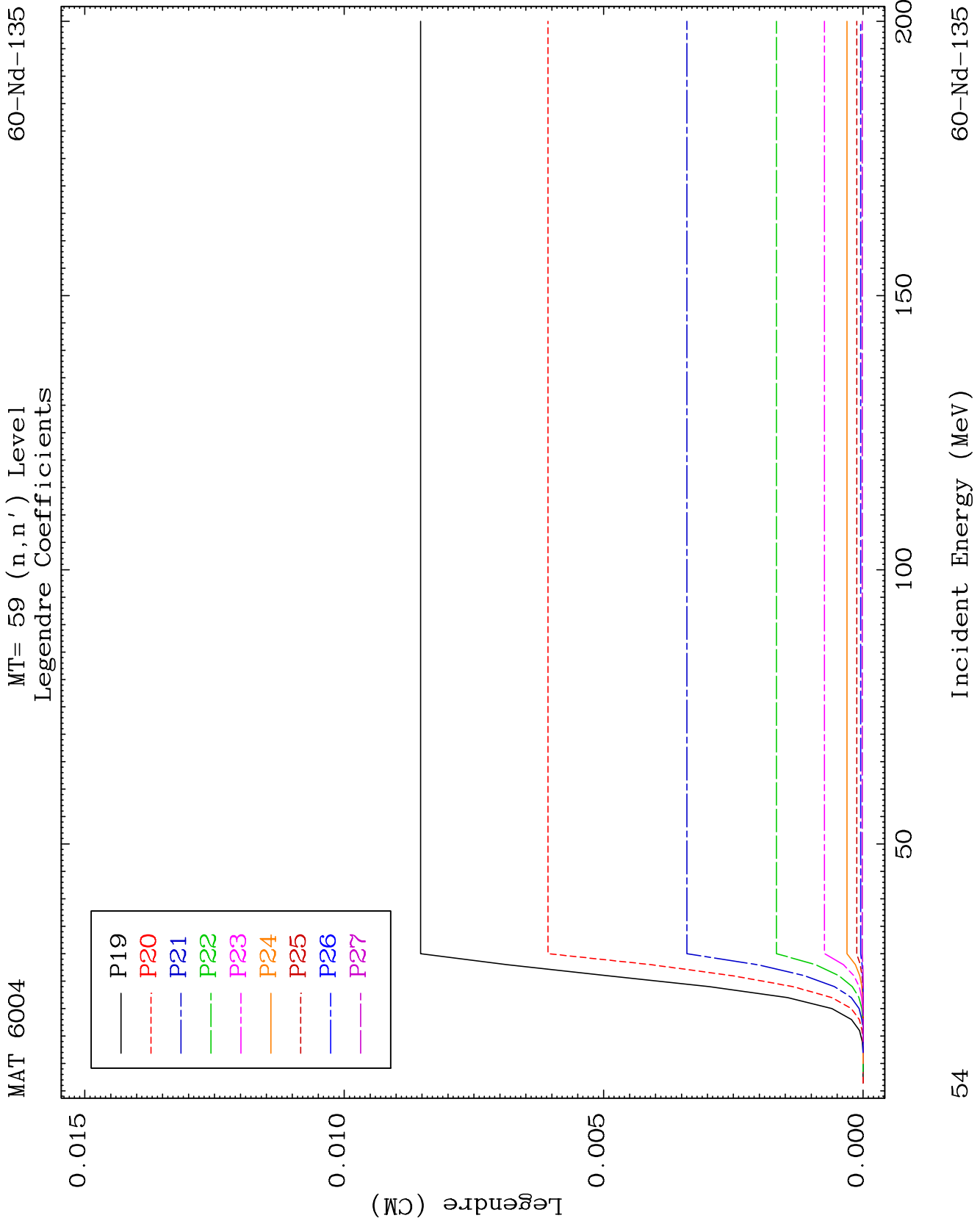
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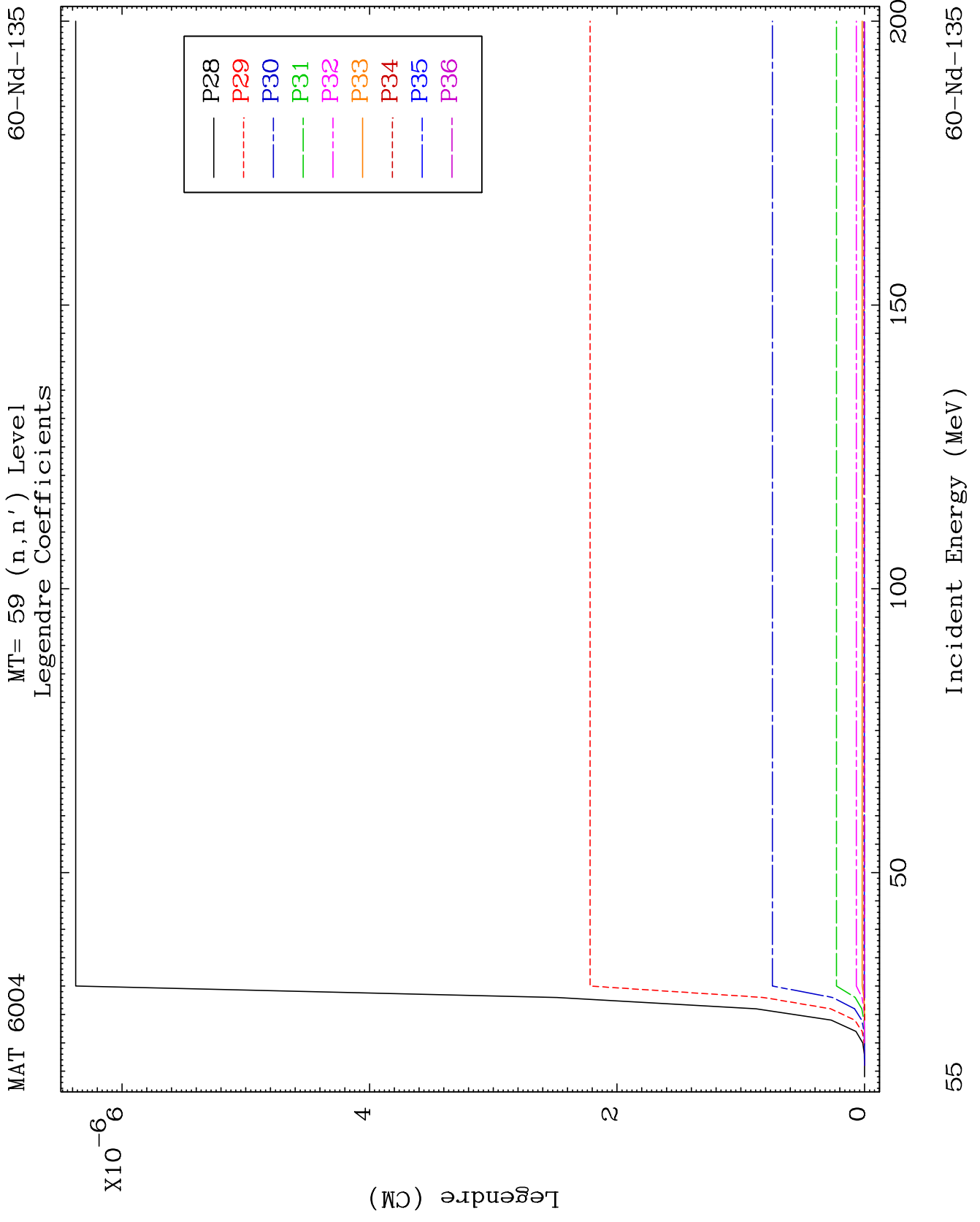
Incident Energy (MeV)

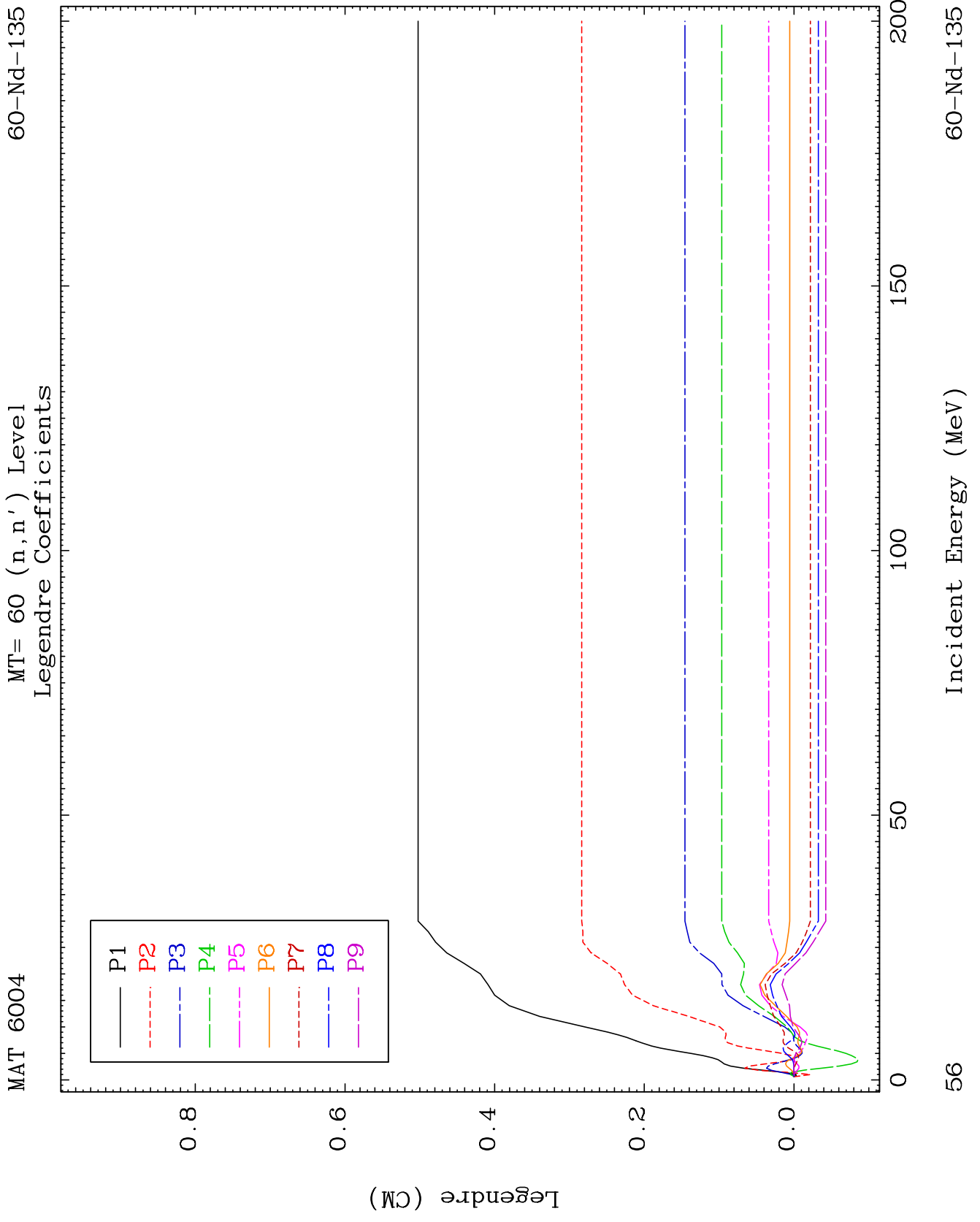
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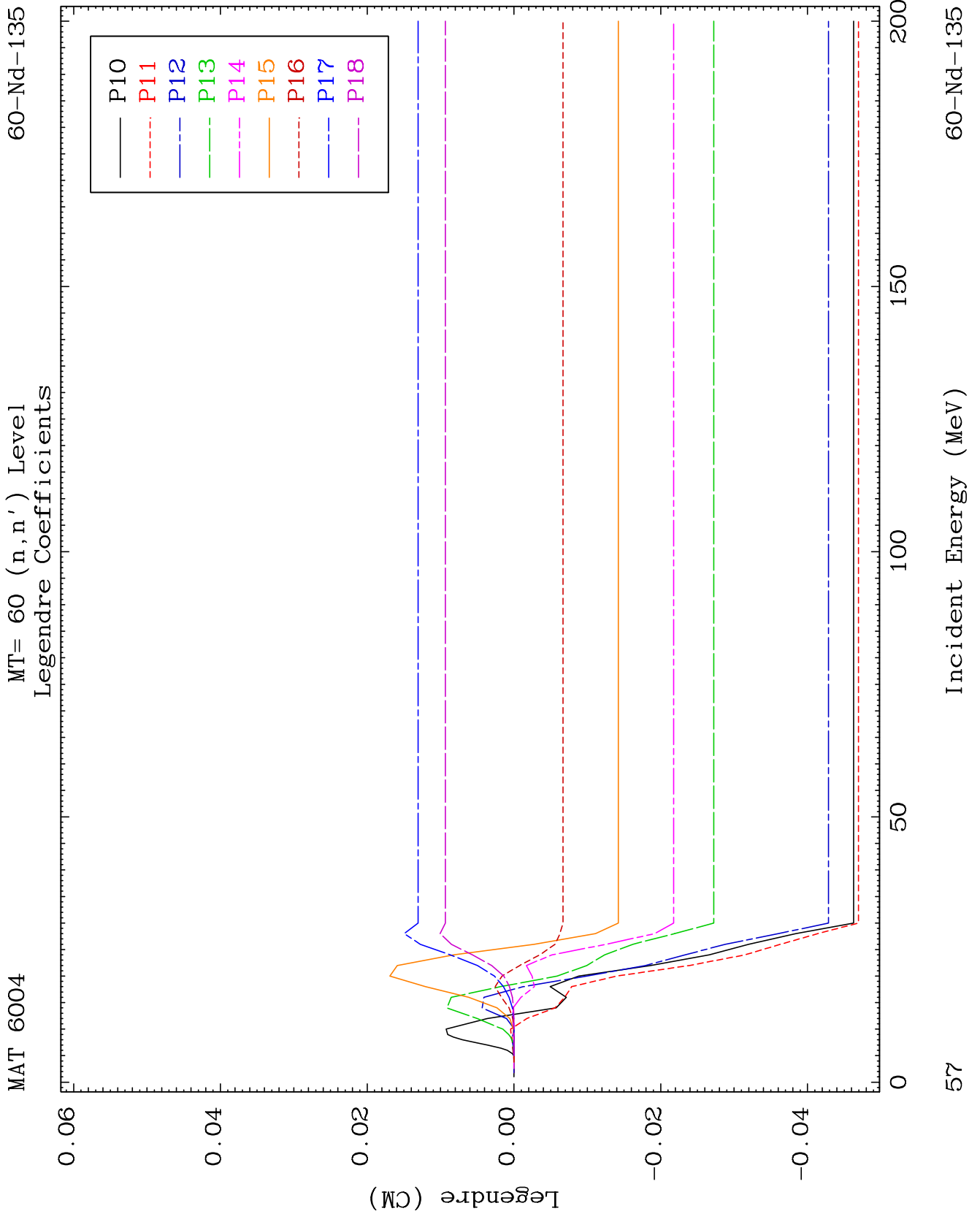


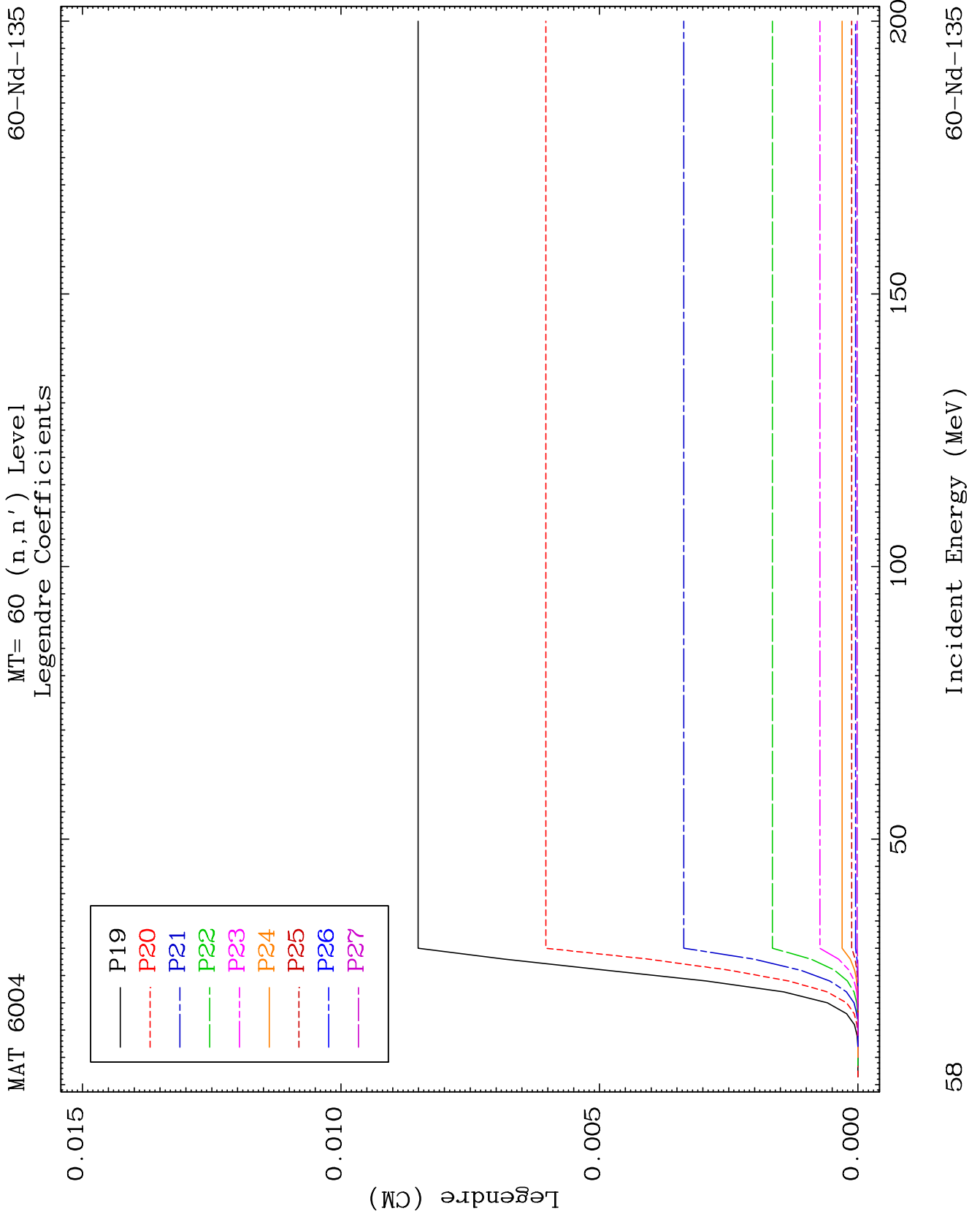


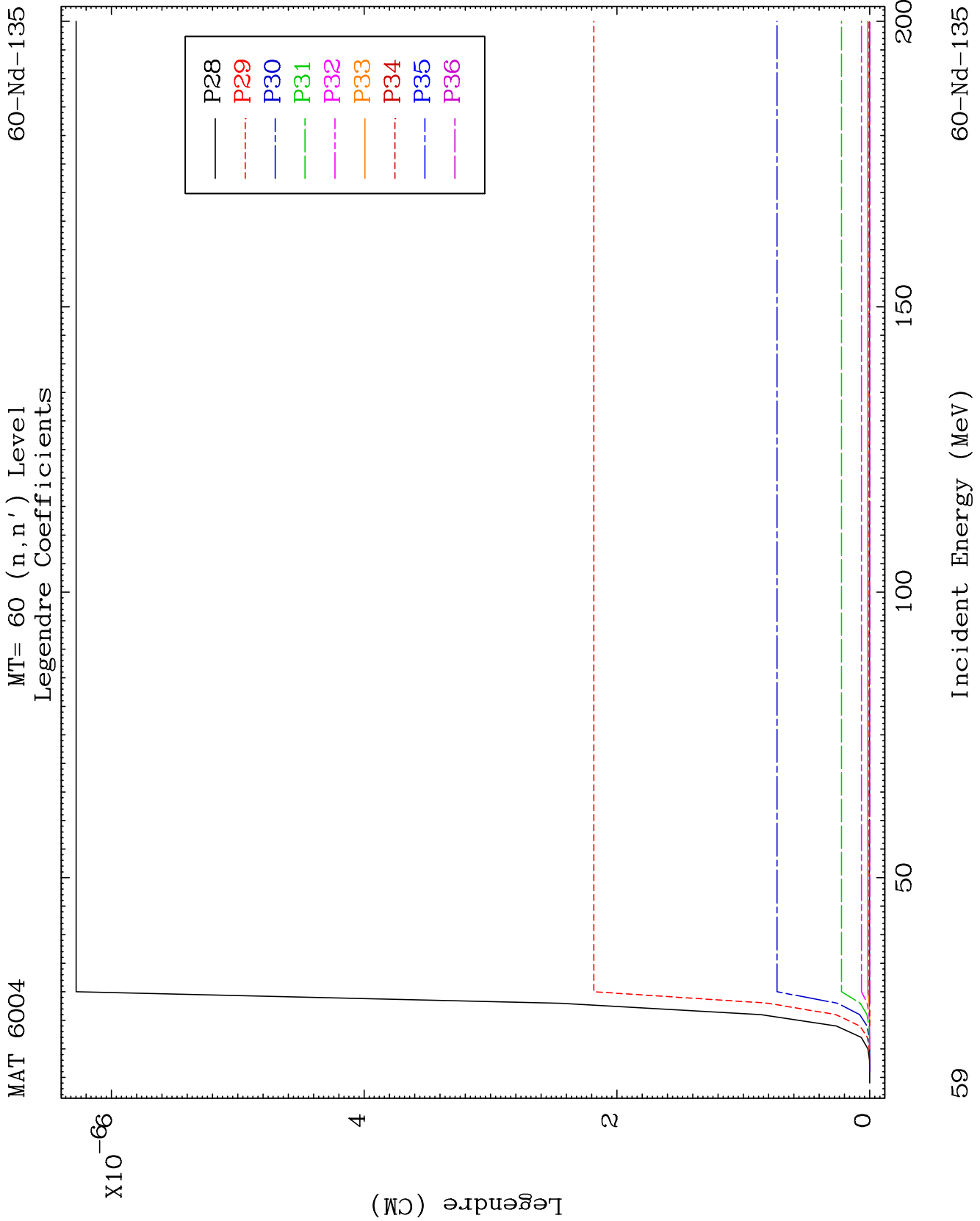


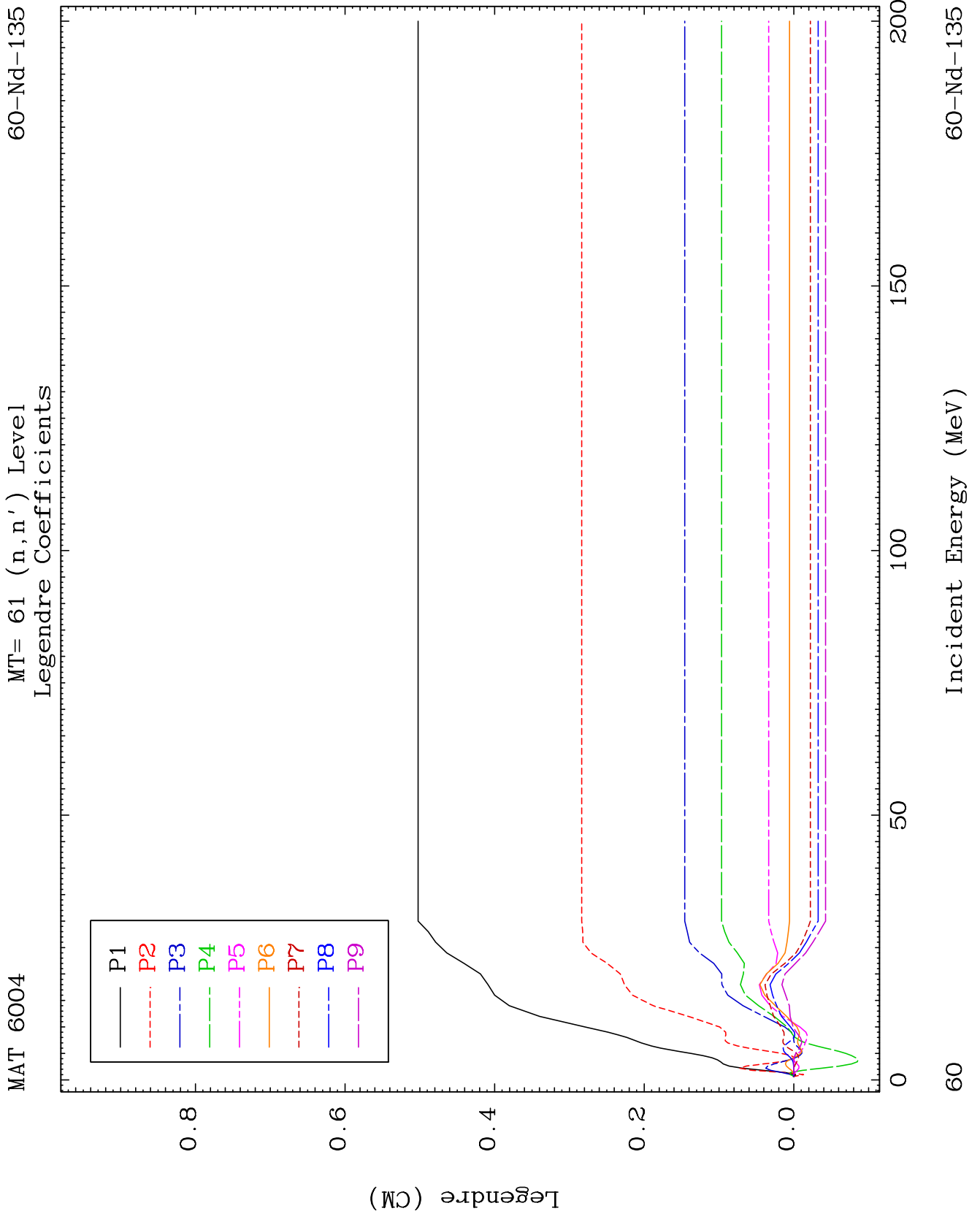


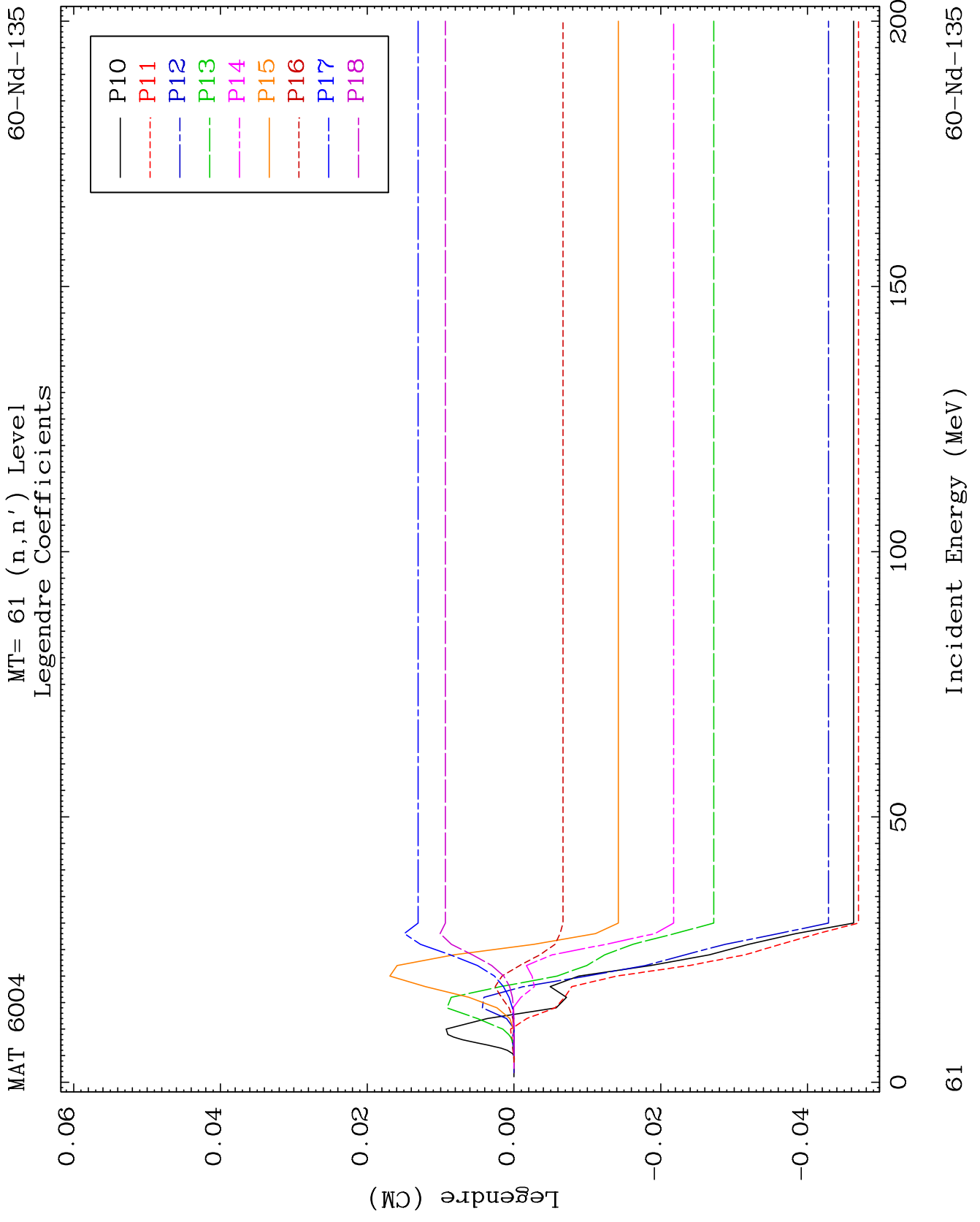


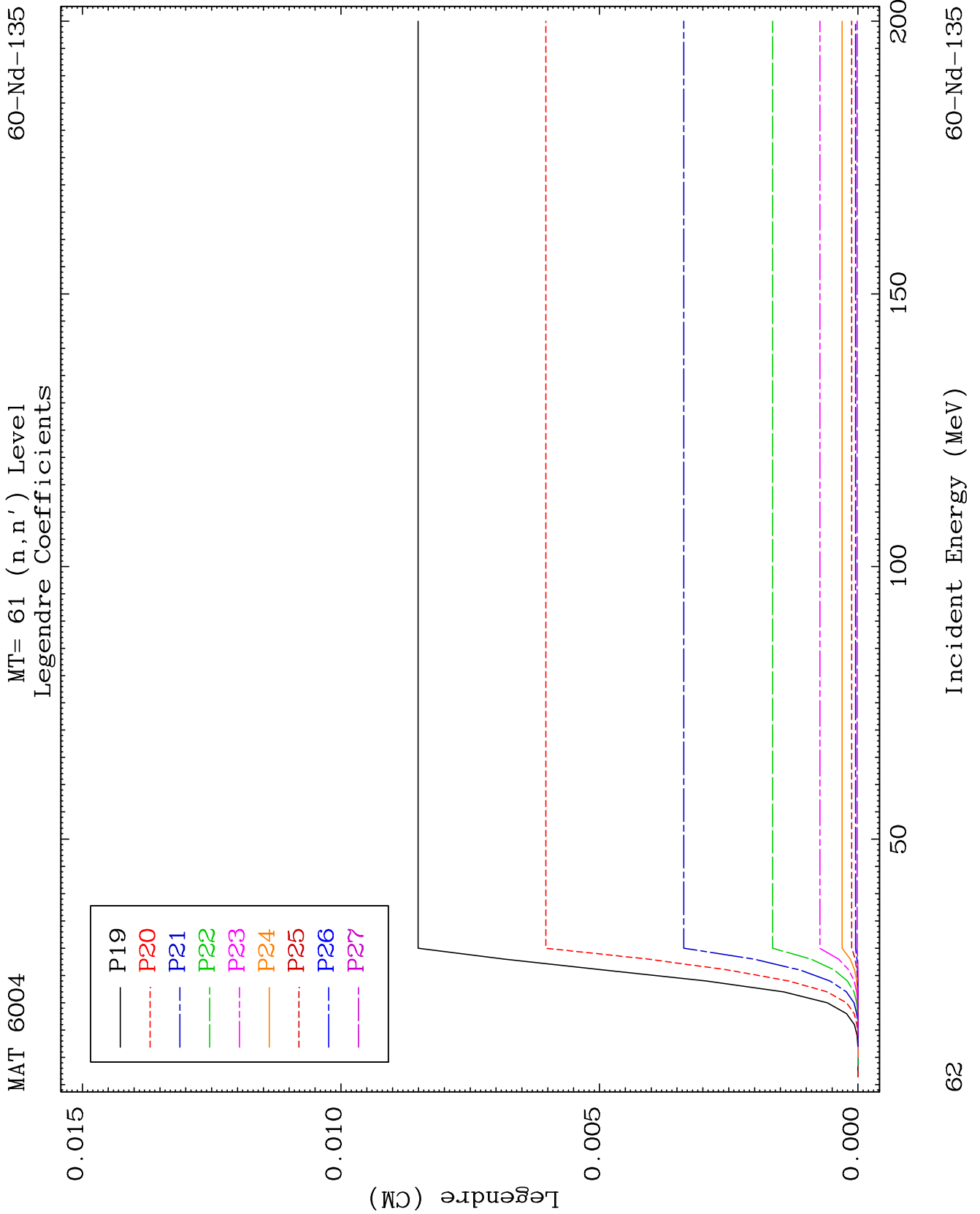








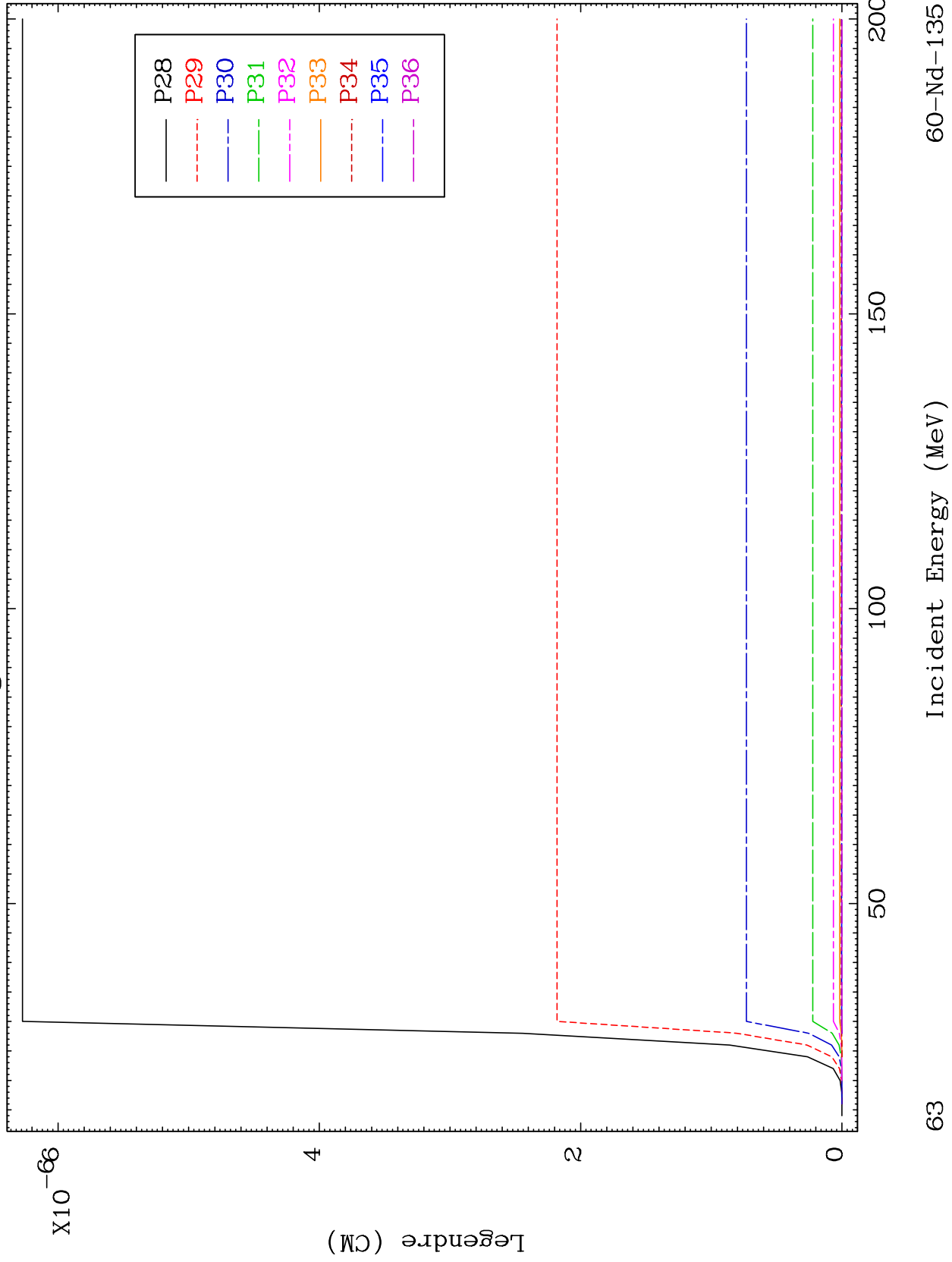




MAT 6004

MT= 61 (n,n') Level
Legendre Coefficients

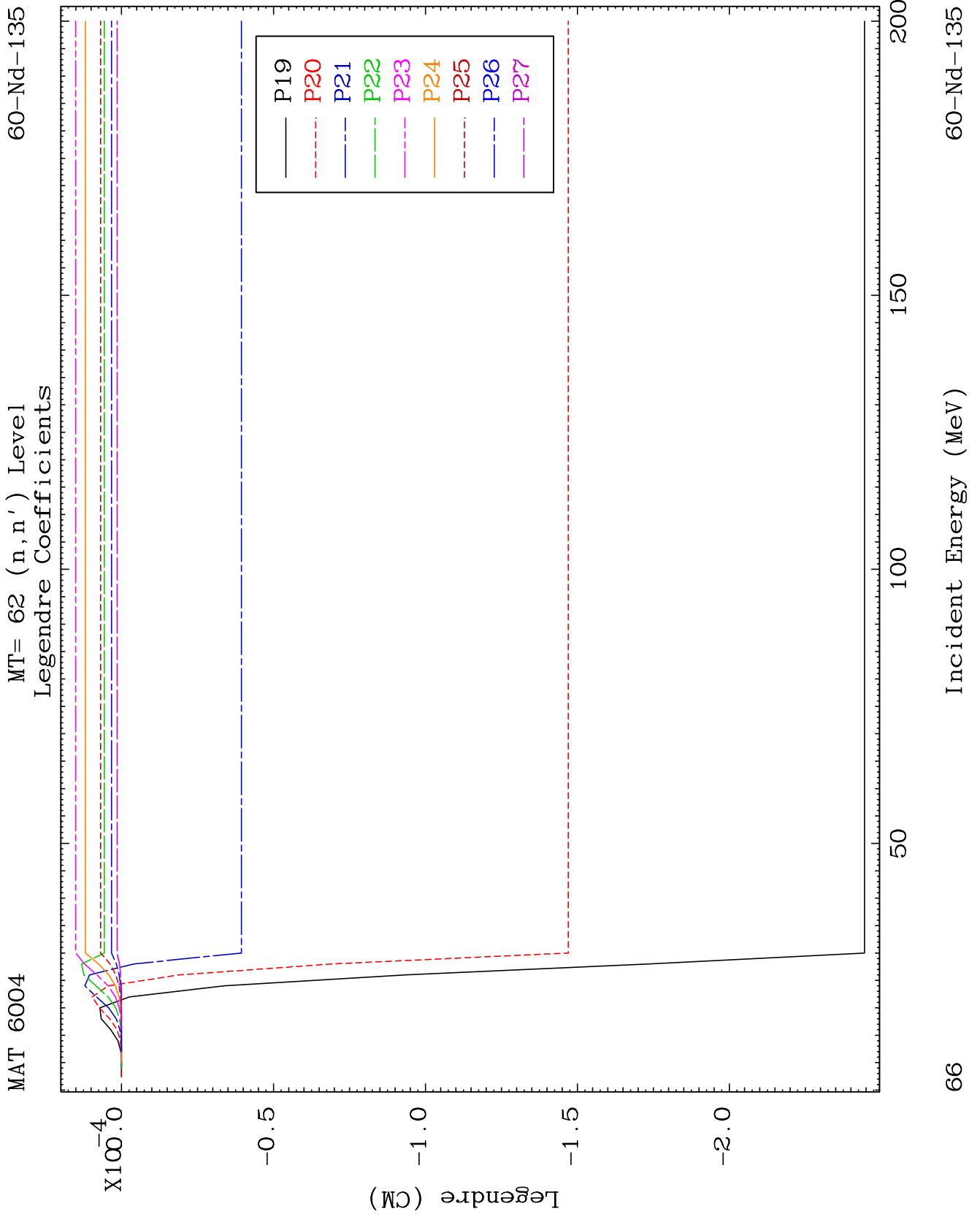
60-Nd-135



63

Incident Energy (MeV)

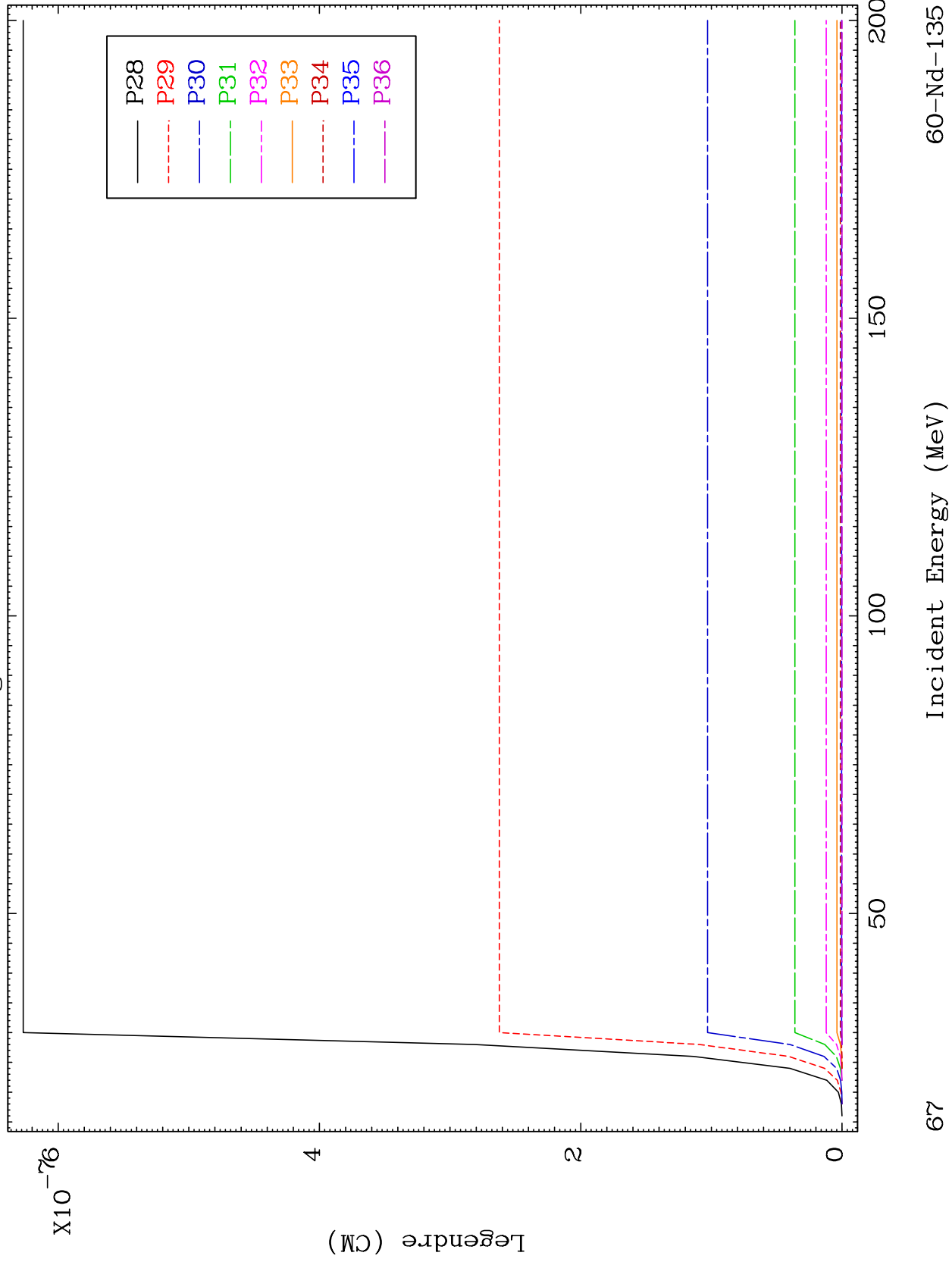
60-Nd-135



MAT 6004

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

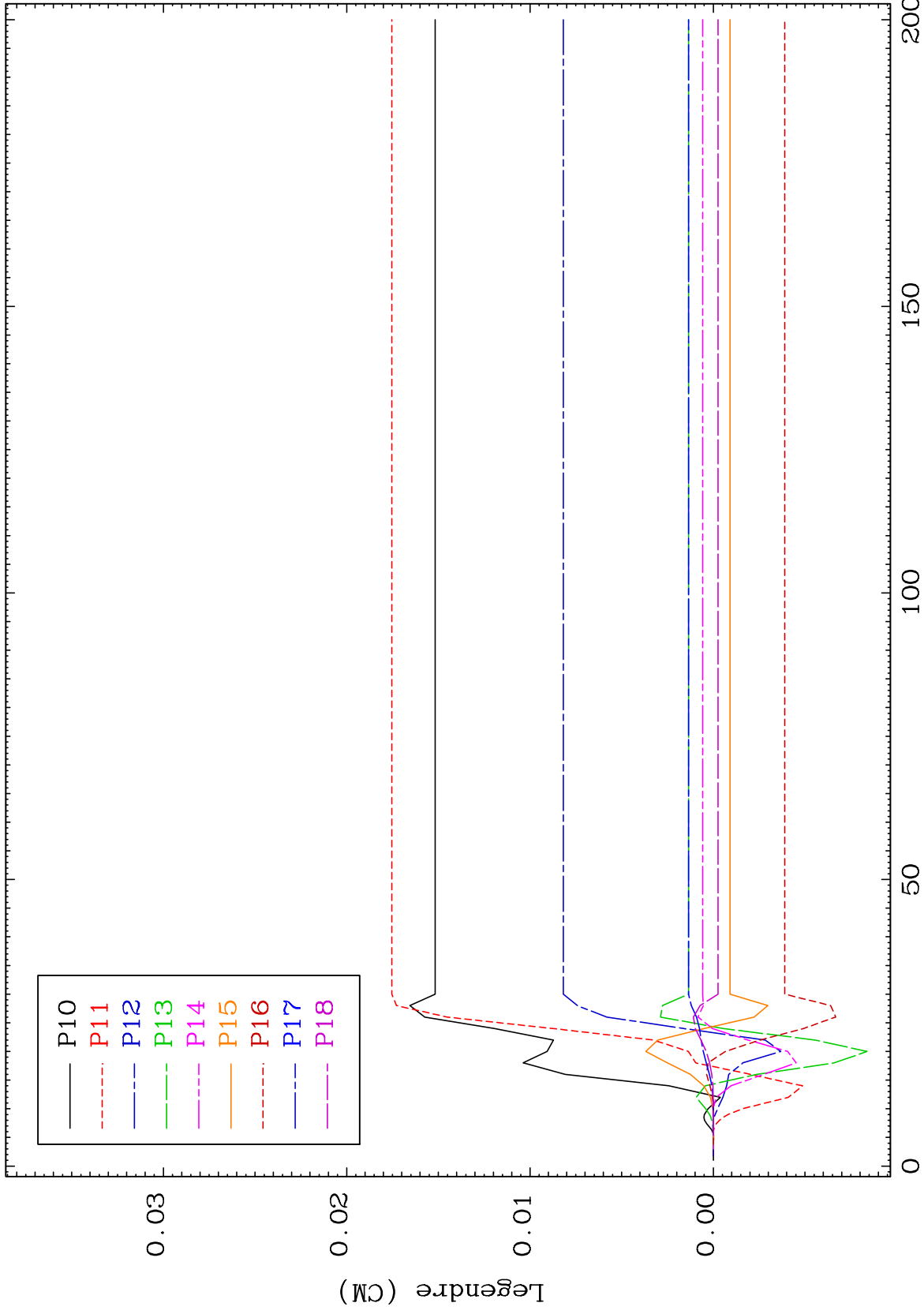
60-Nd-135



MAT 6004

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

60-Nd-135



69

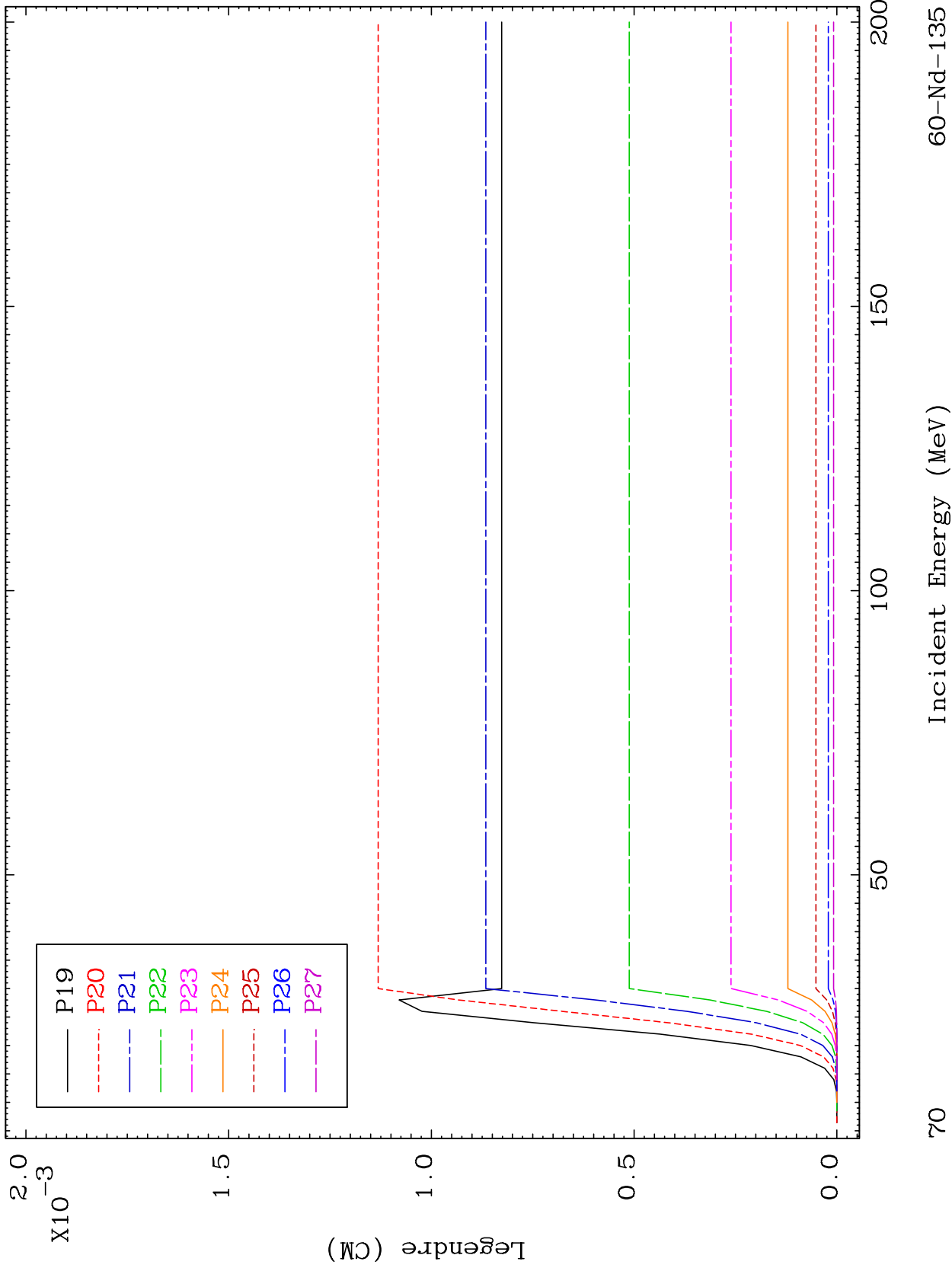
Incident Energy (MeV)

60-Nd-135

MAT 6004

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

60-Nd-135



70

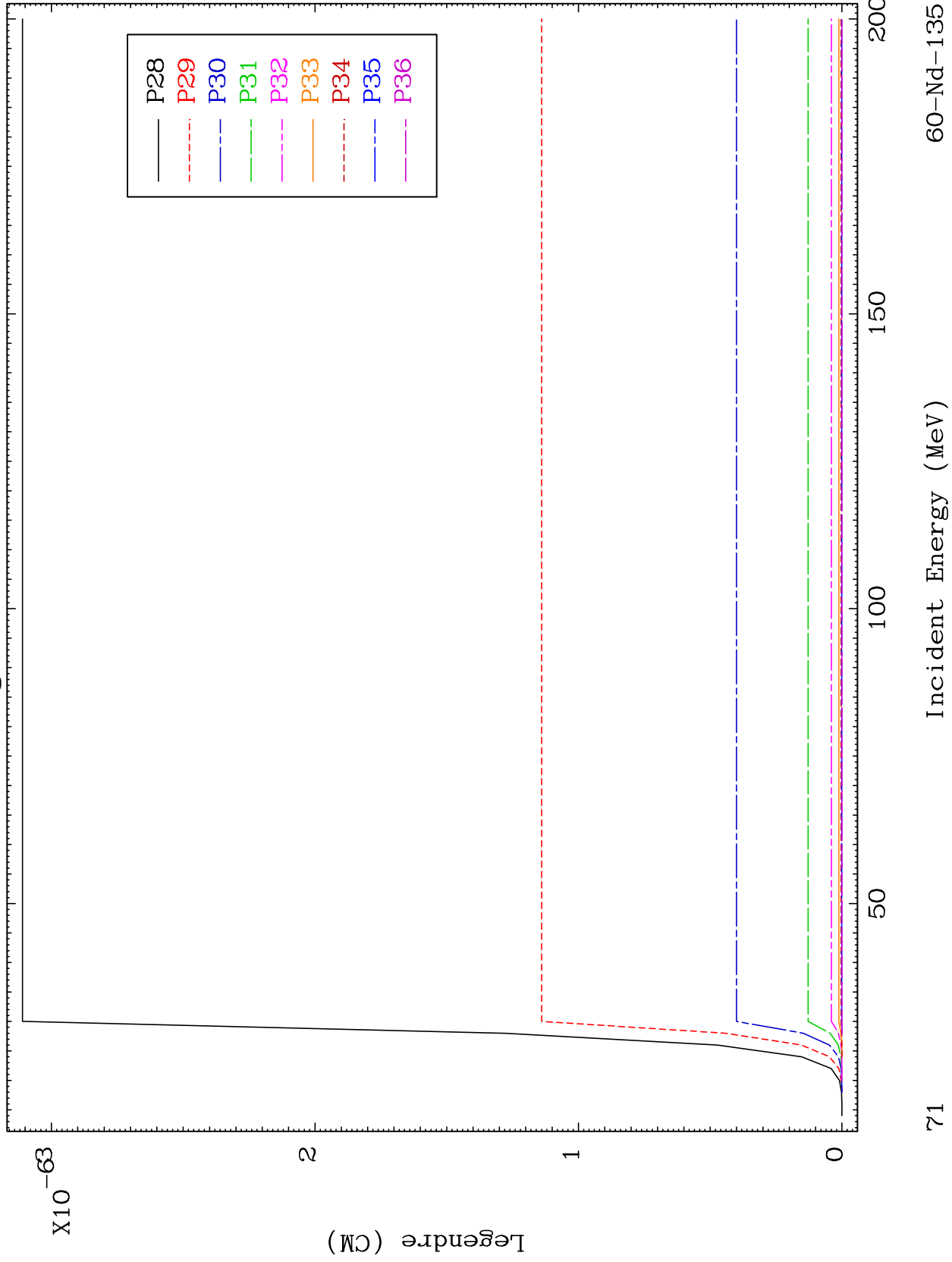
Incident Energy (MeV)

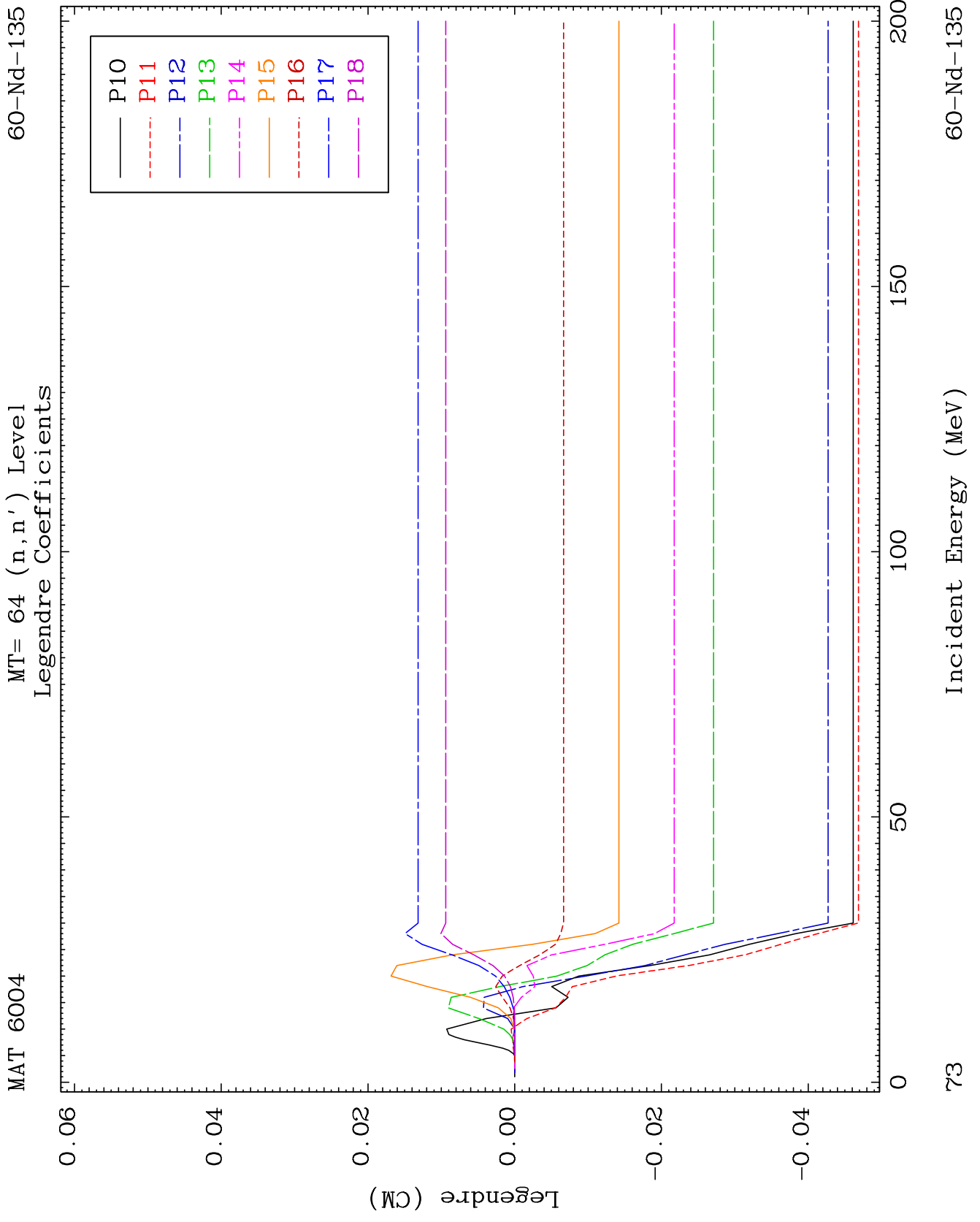
60-Nd-135

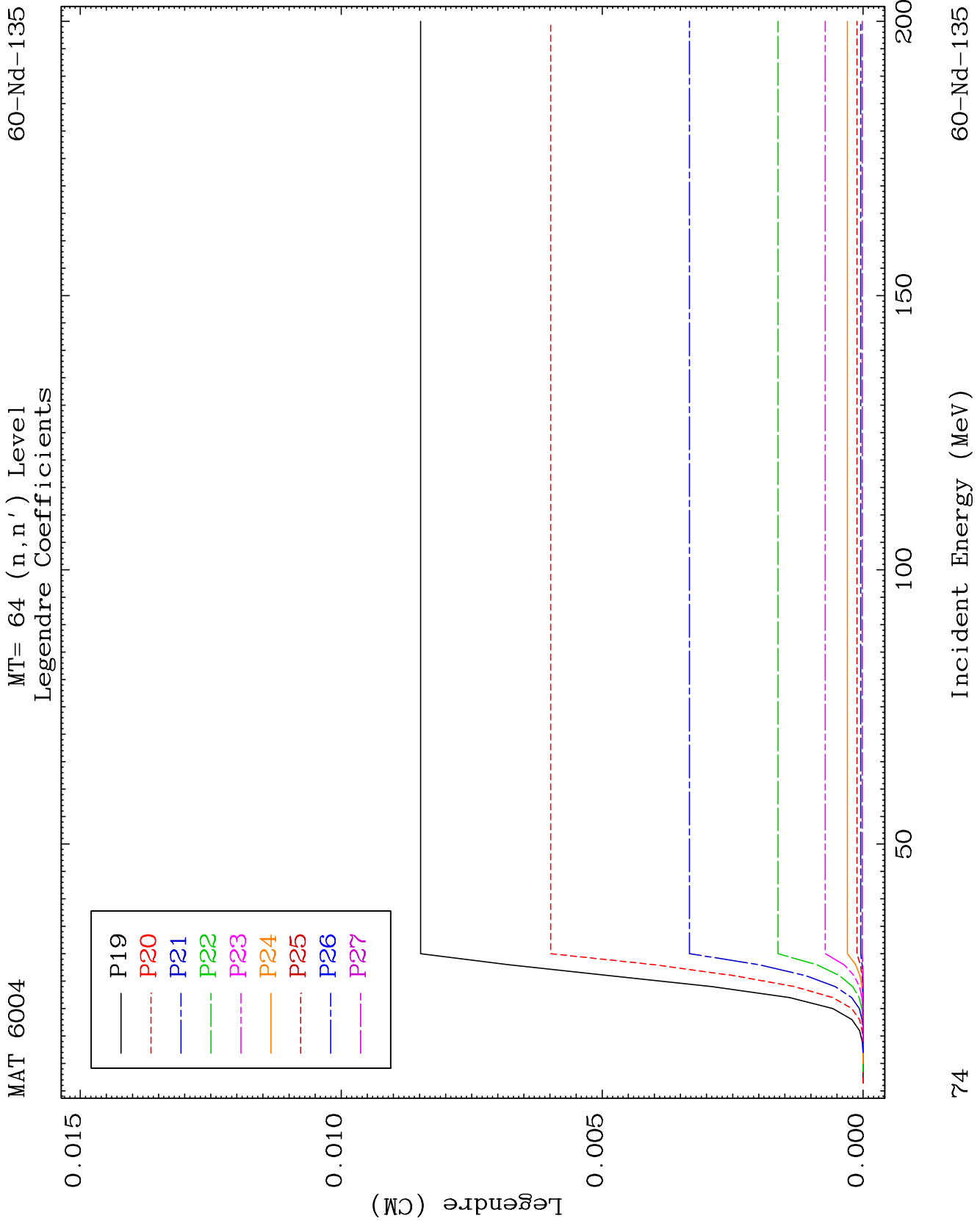
MAT 6004

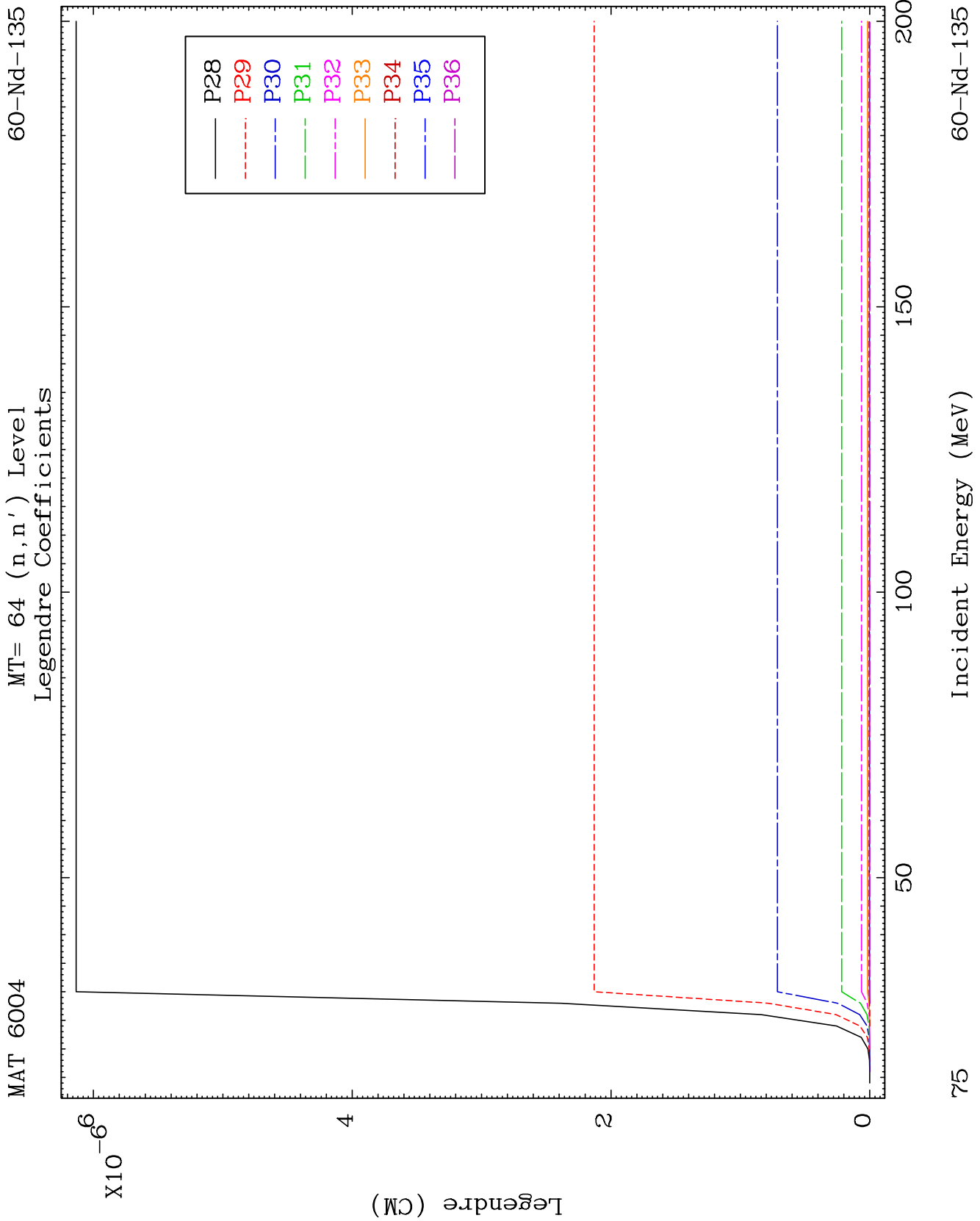
MT= 63 (n,n') Level
Legendre Coefficients

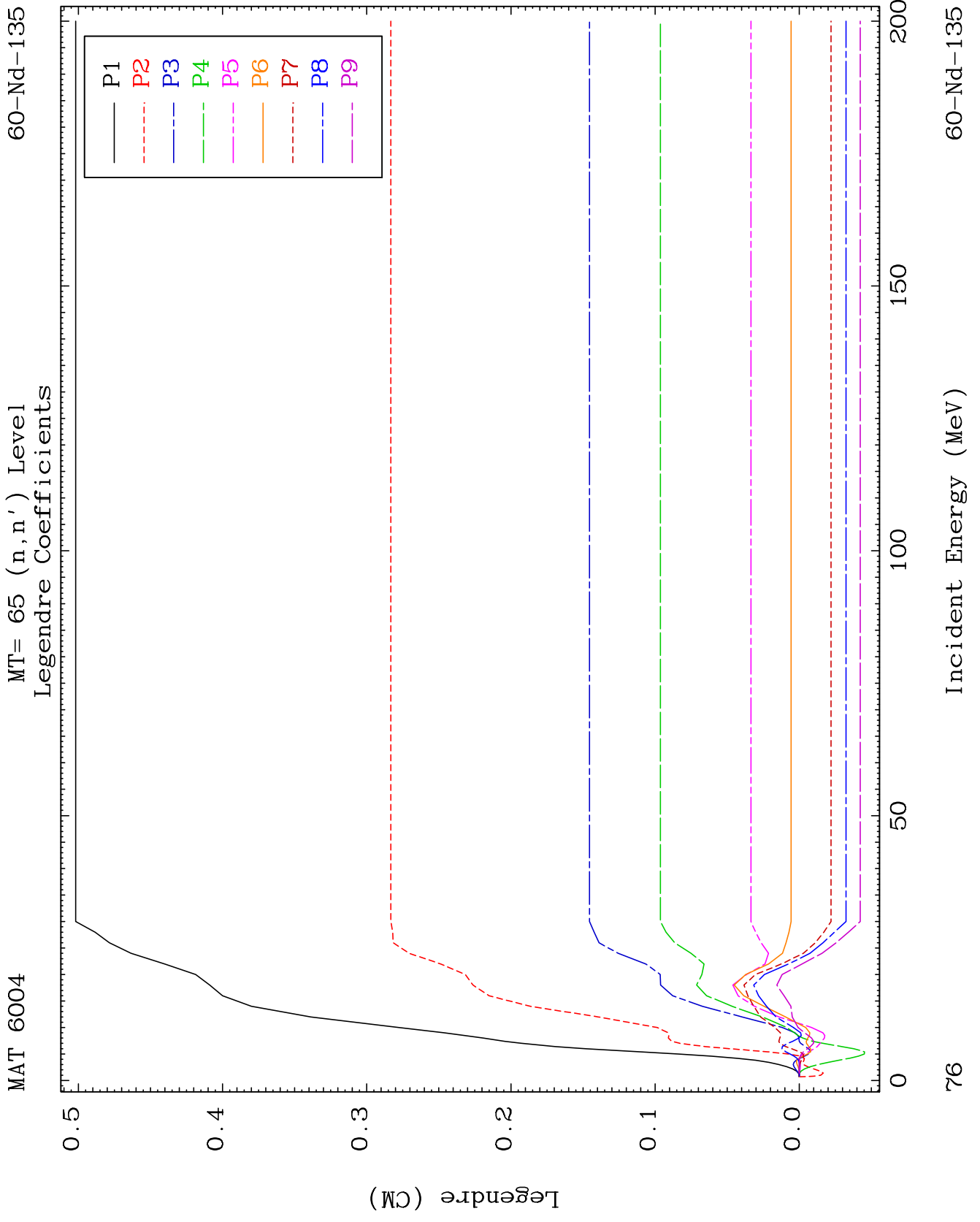
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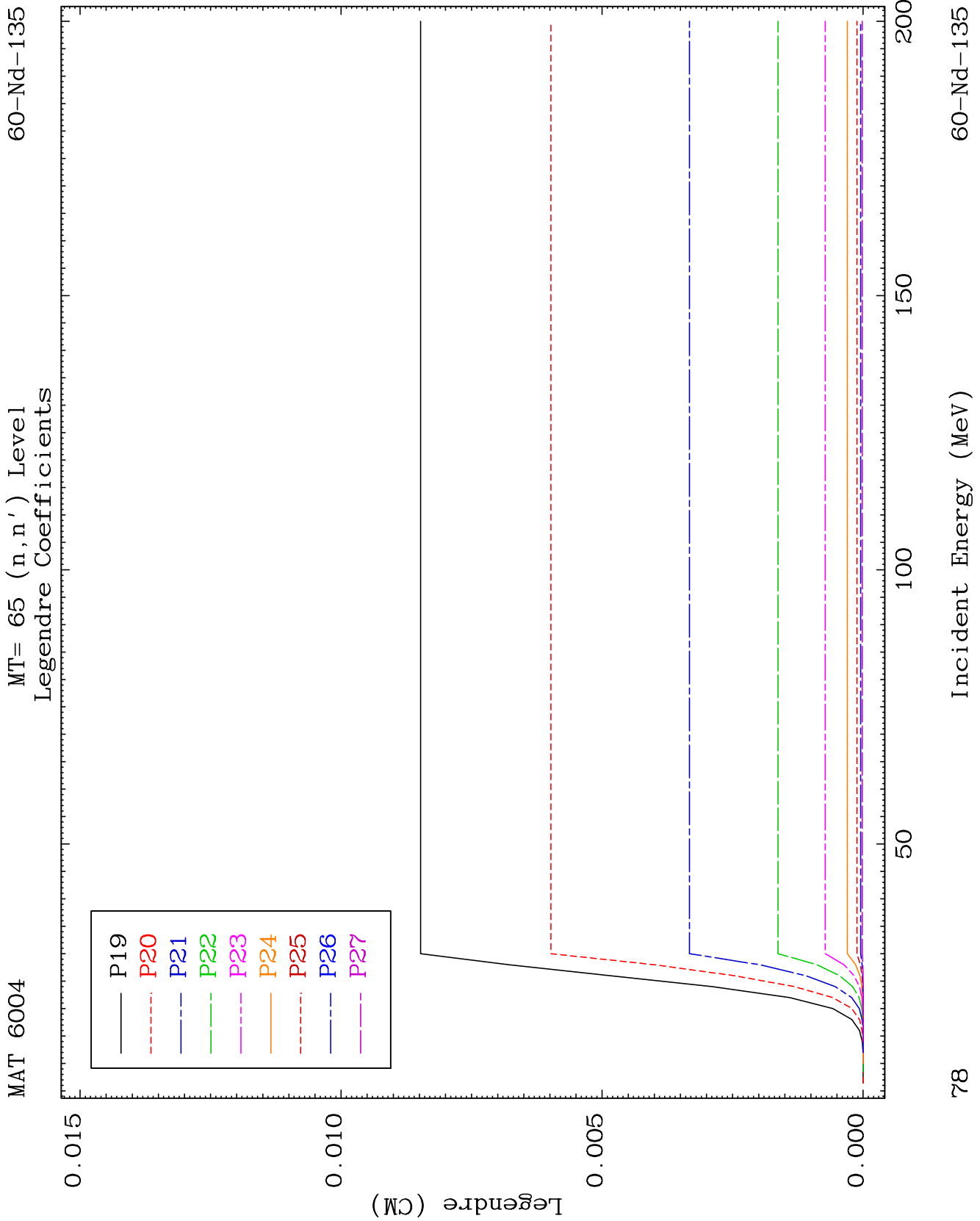








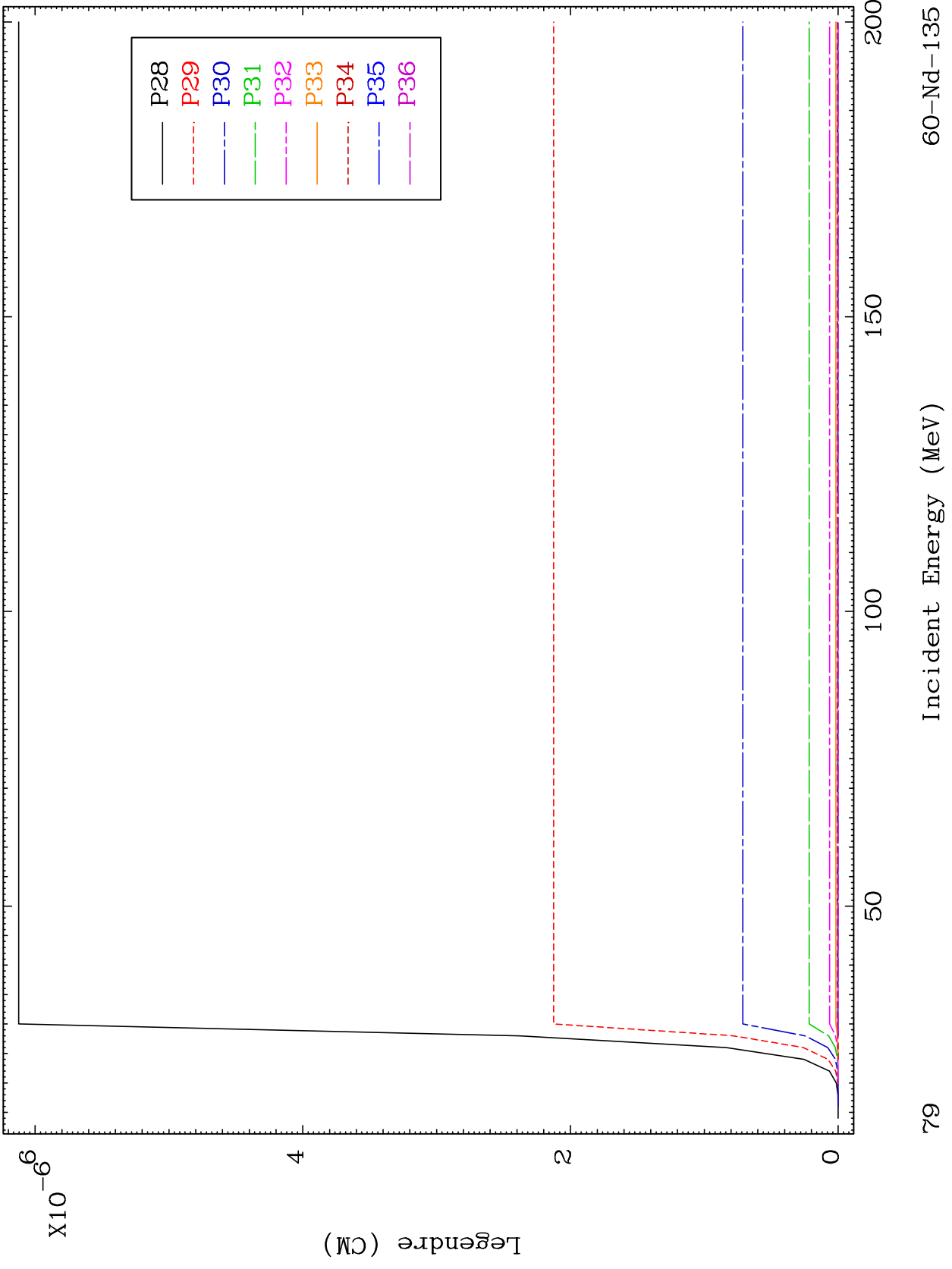




MAT 6004

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

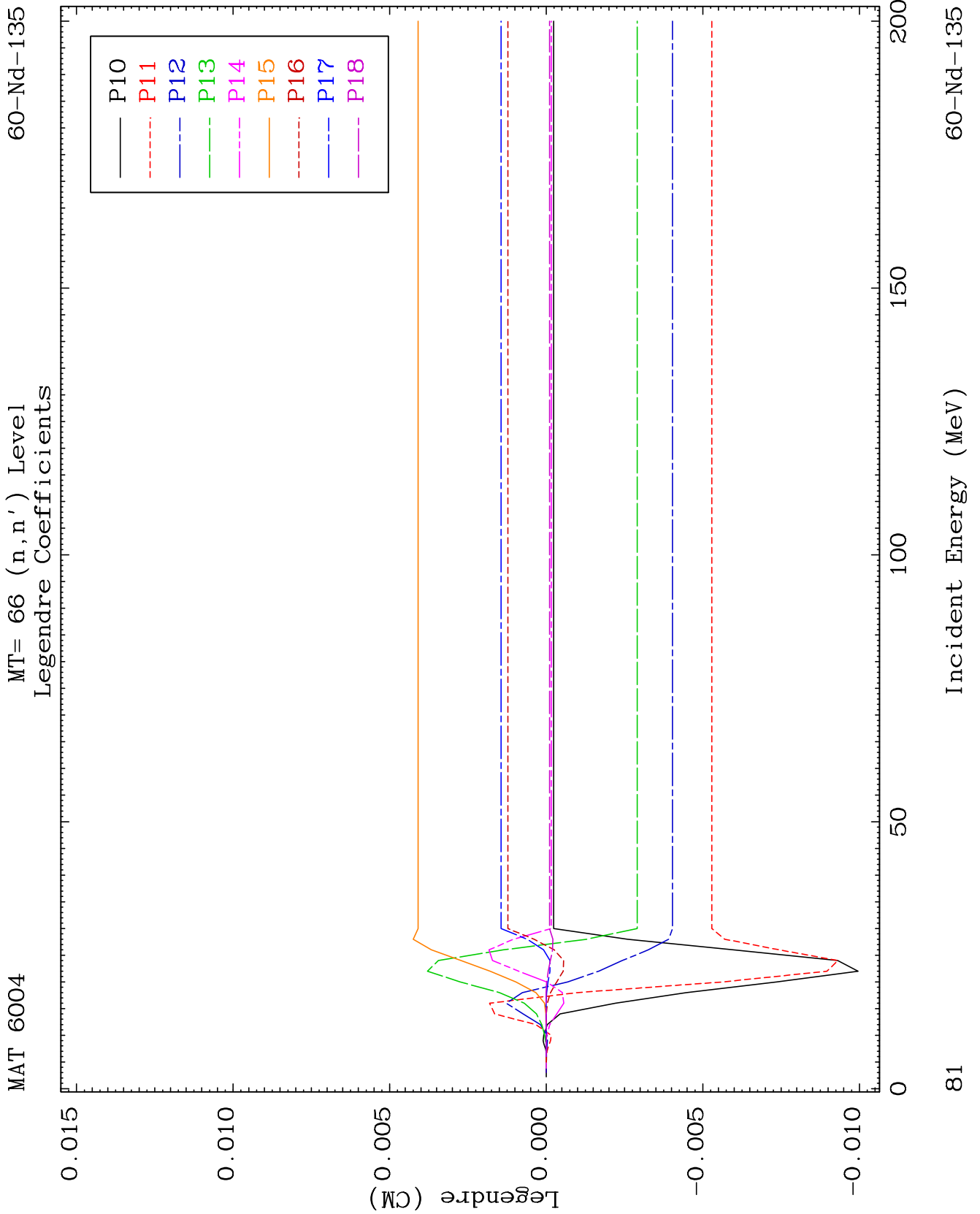
60-Nd-135

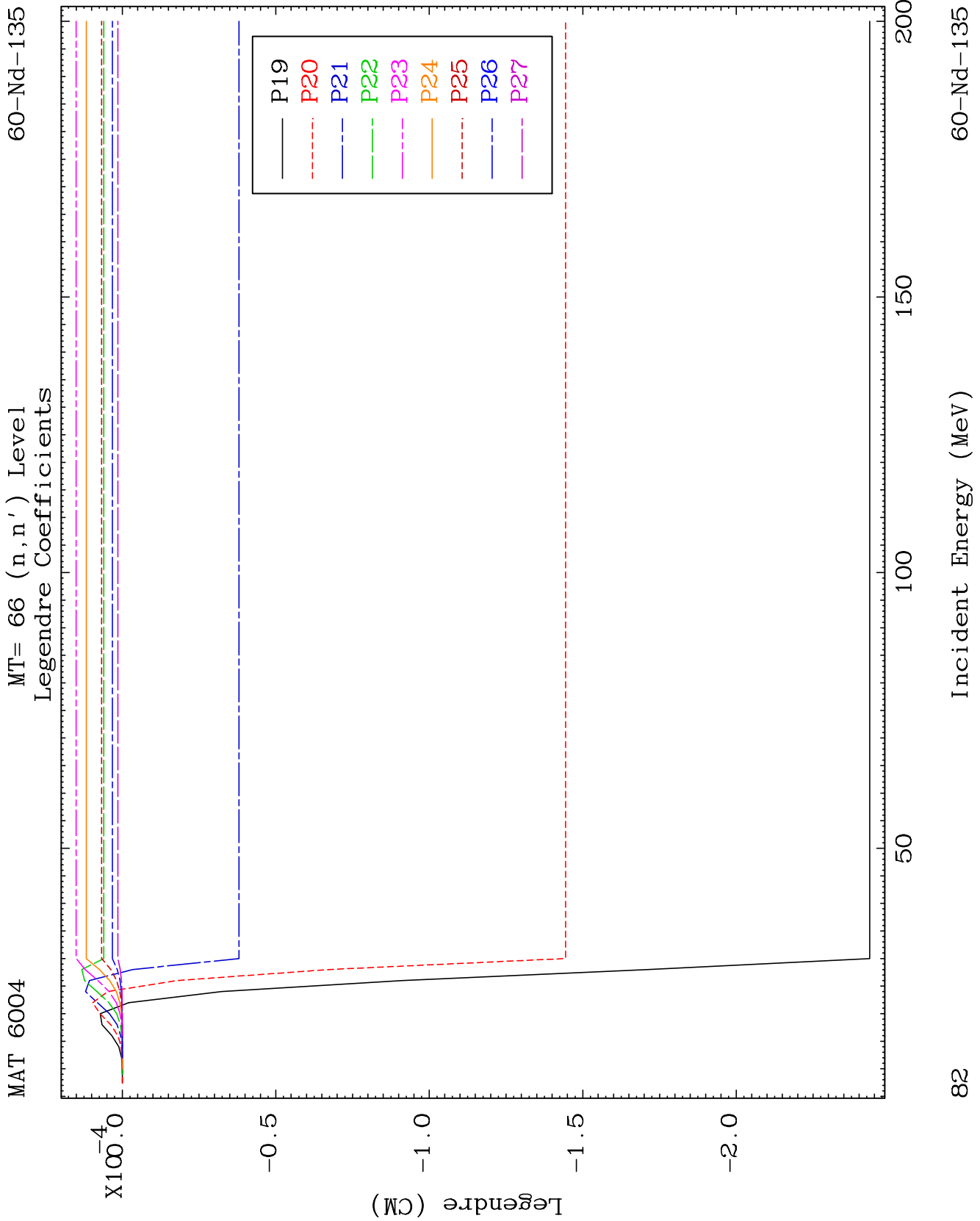


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Incident Energy (MeV)

60-Nd-135

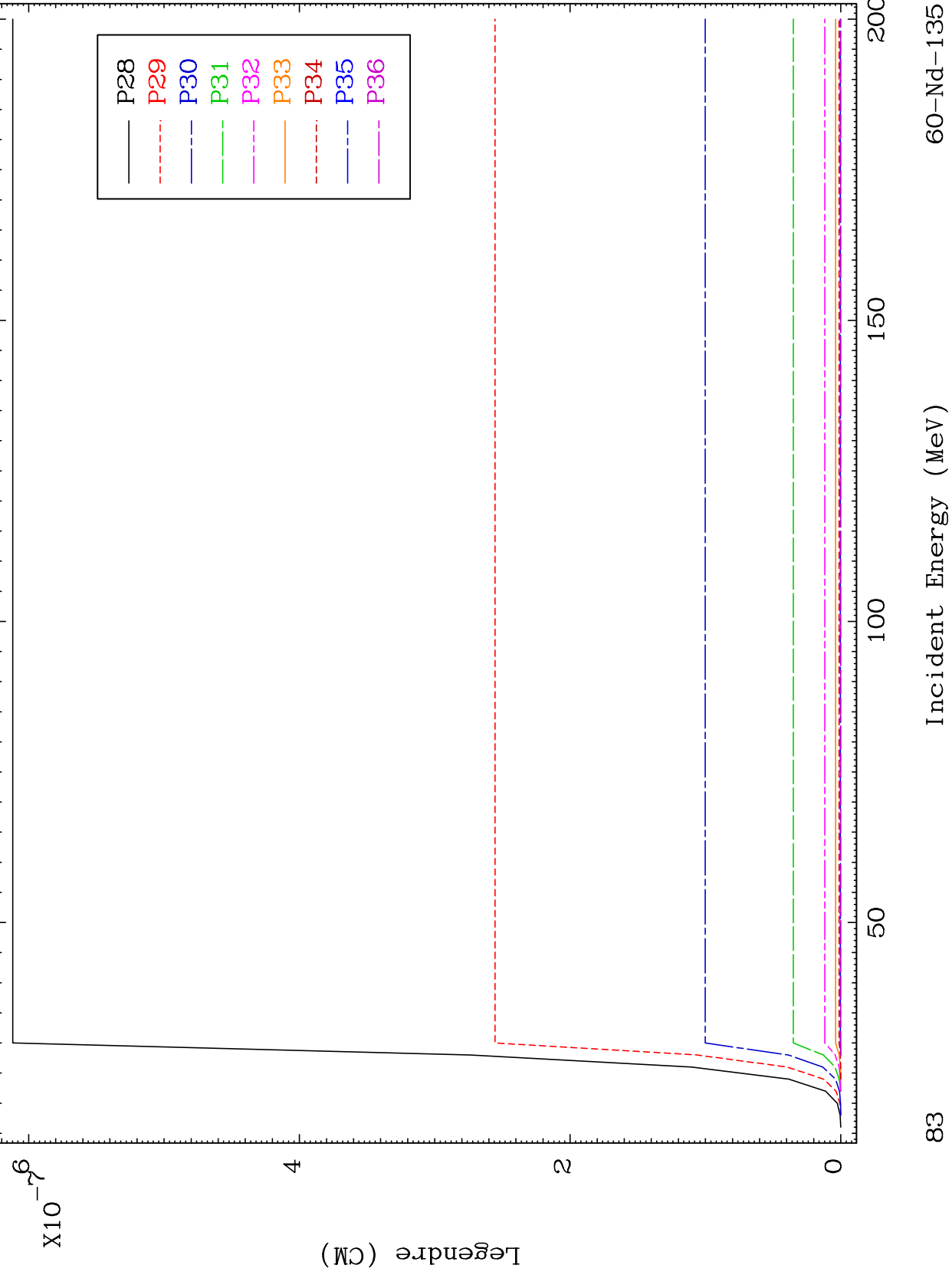


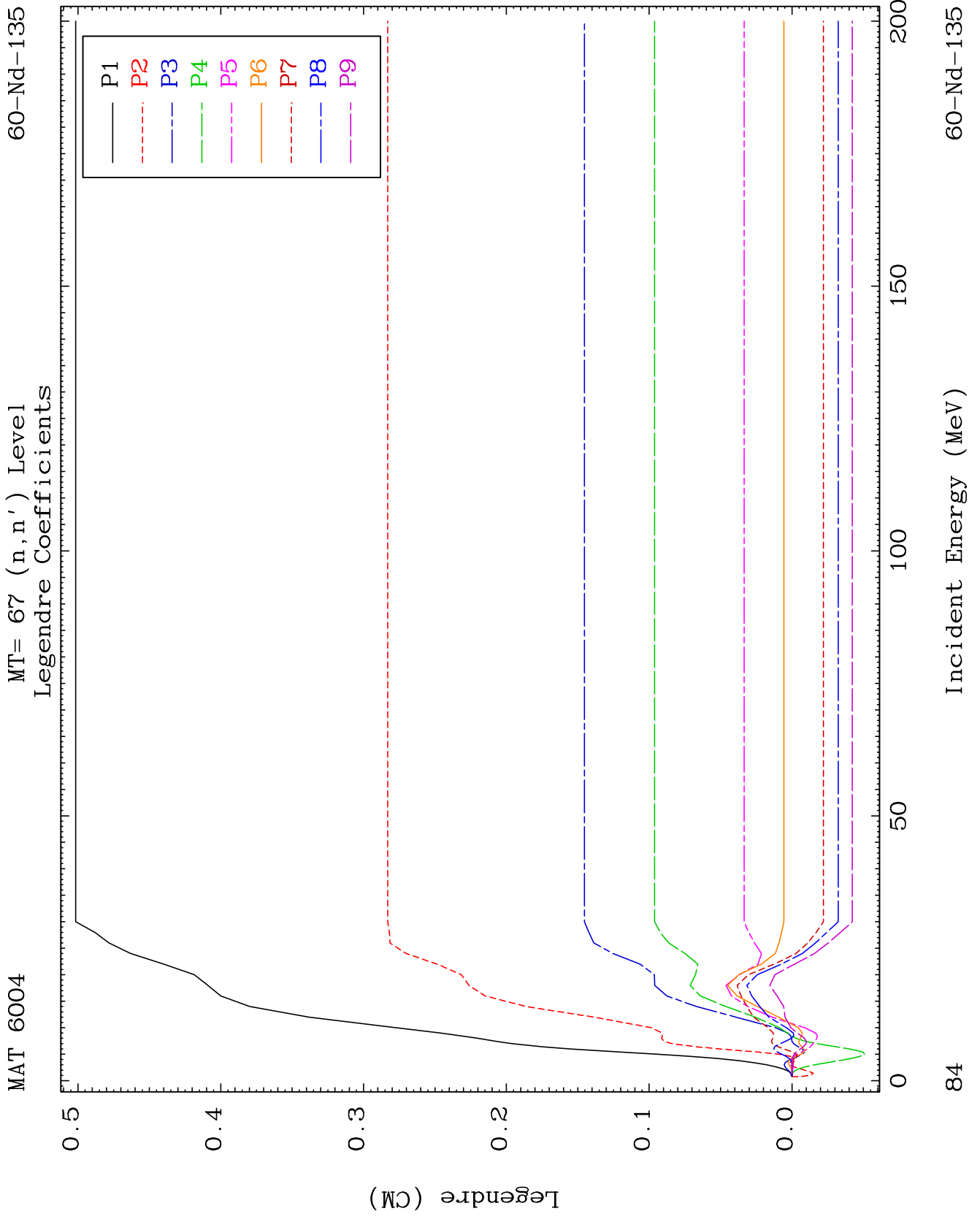


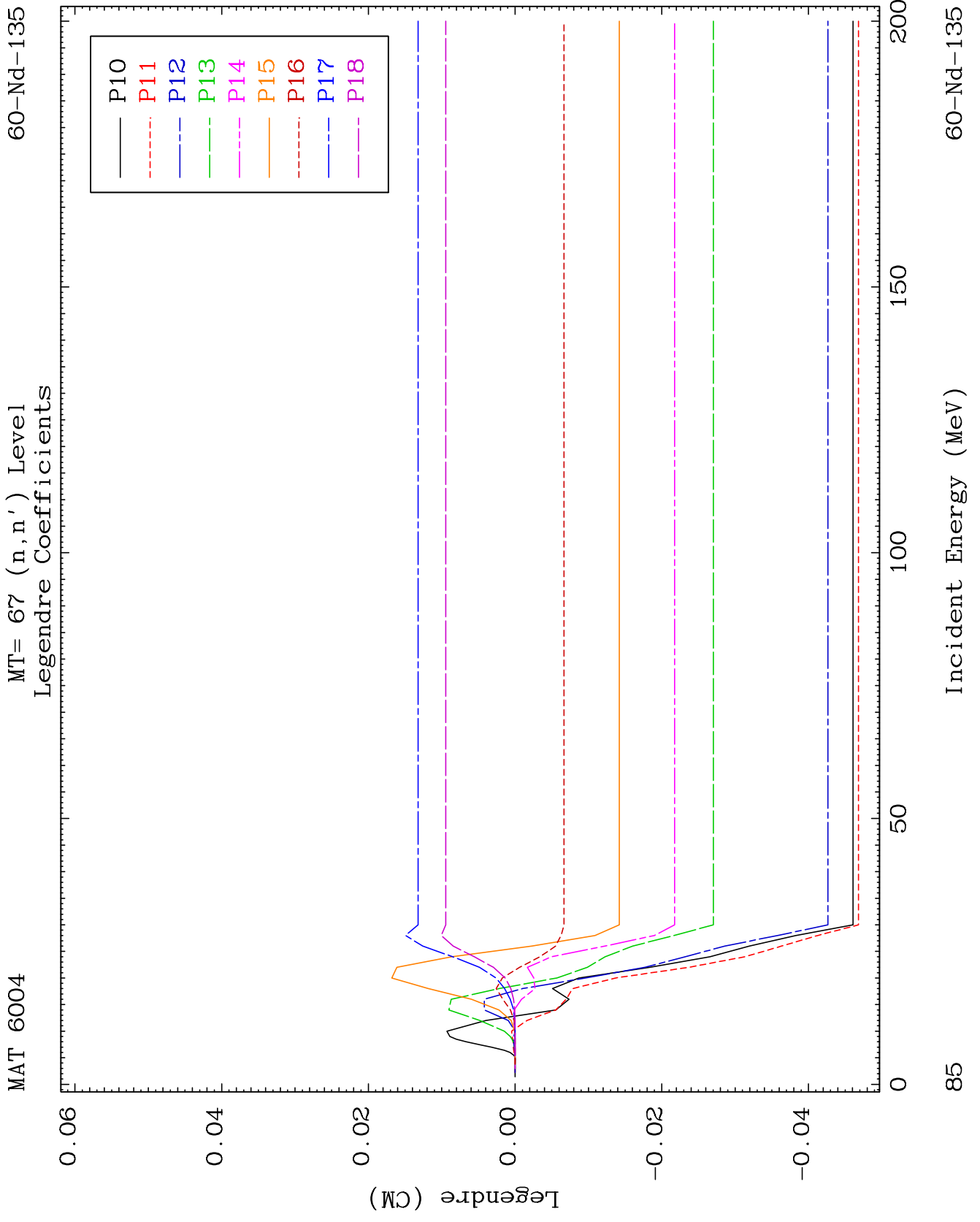
MAT 6004

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

60-Nd-135



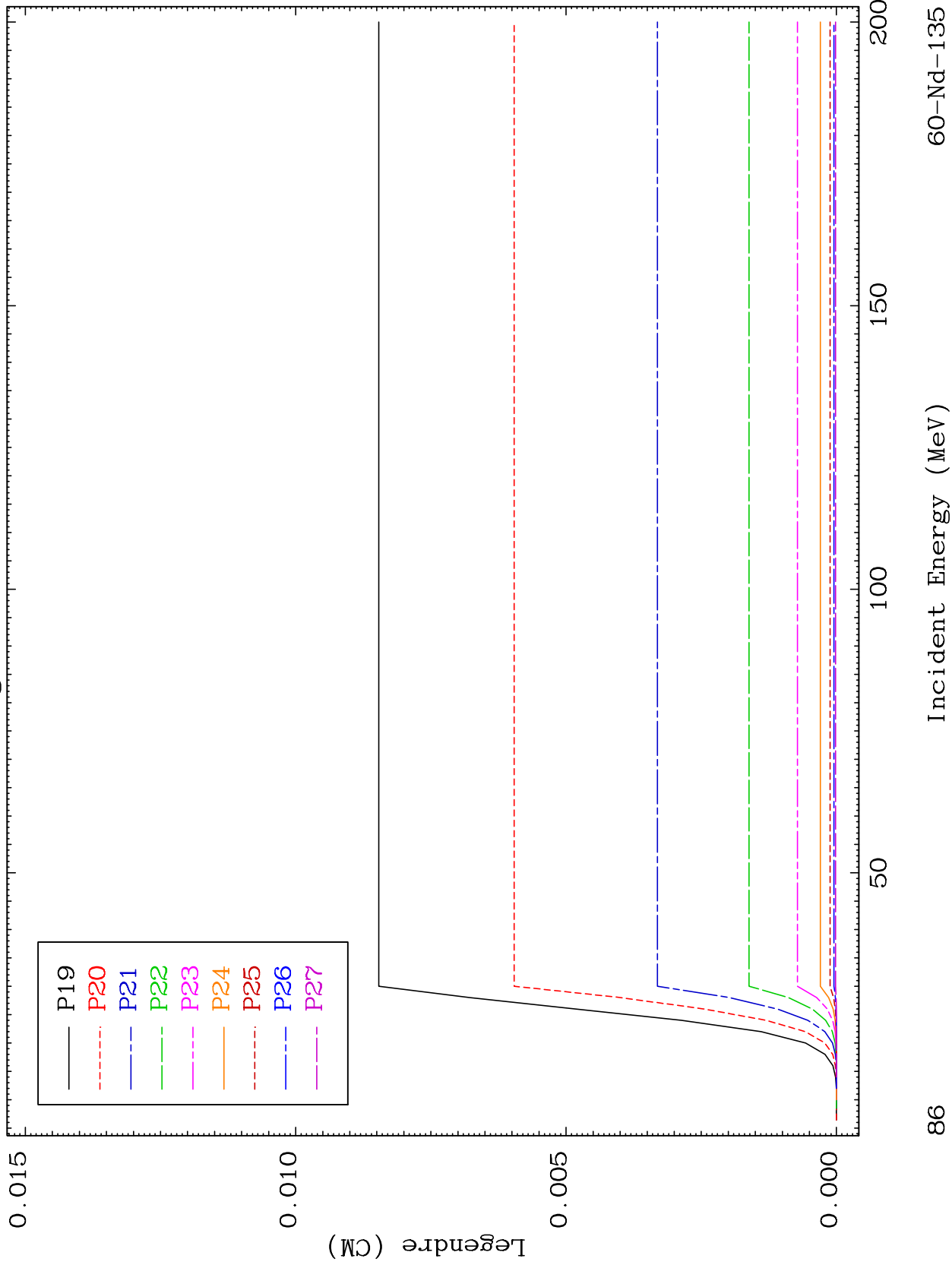




MAT 6004

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

60-Nd-135



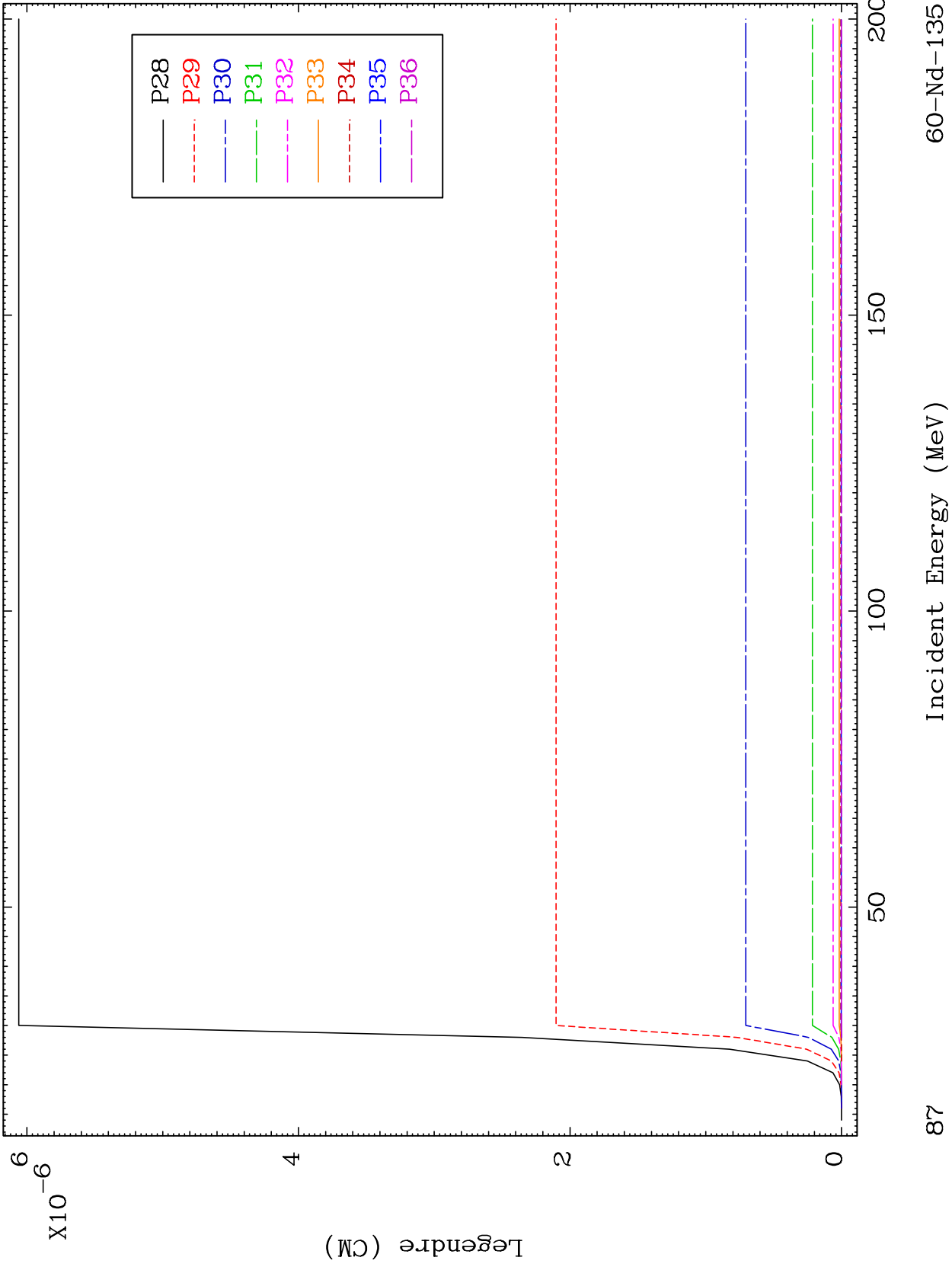
86

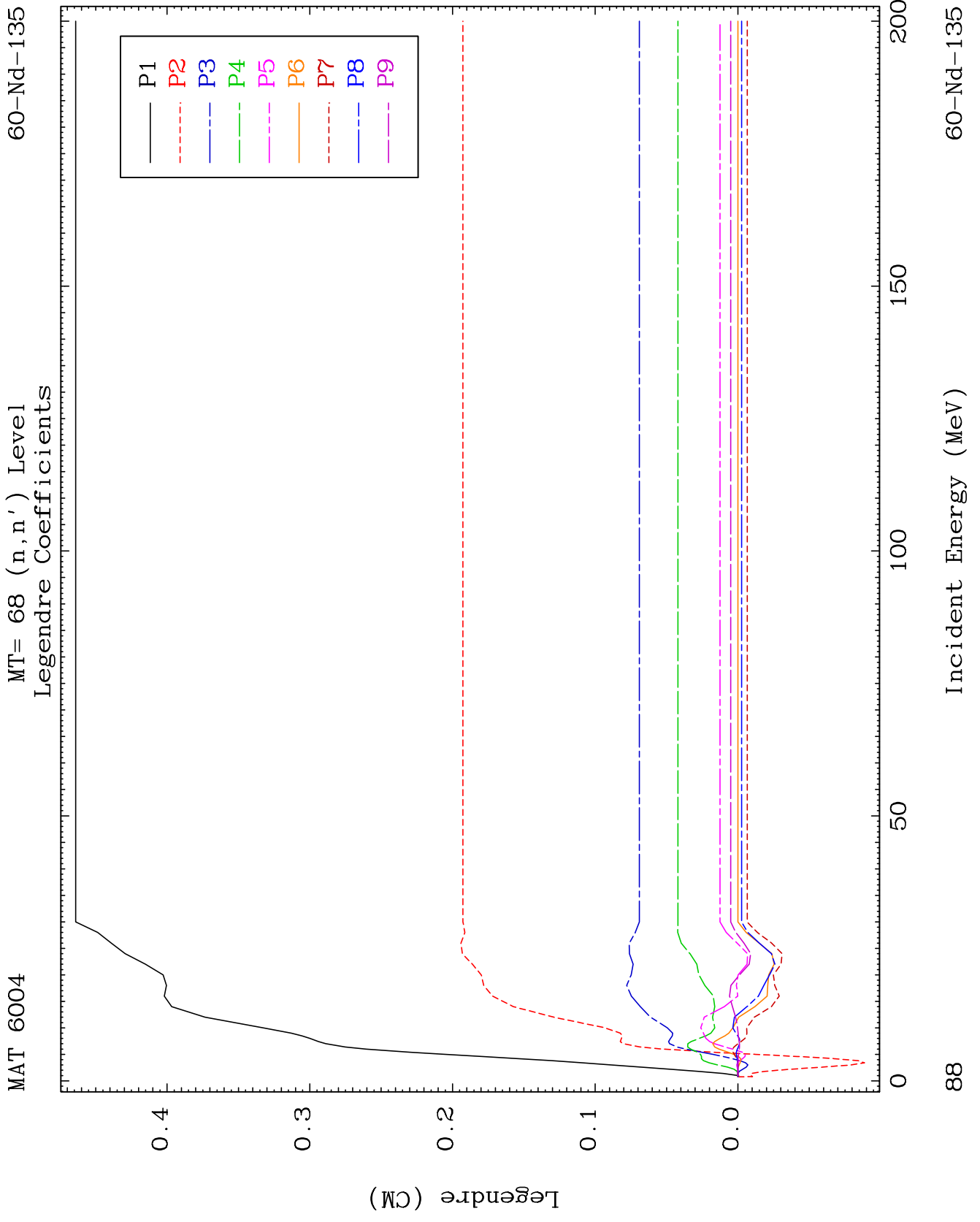
60-Nd-135

MAT 6004

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

60-Nd-135

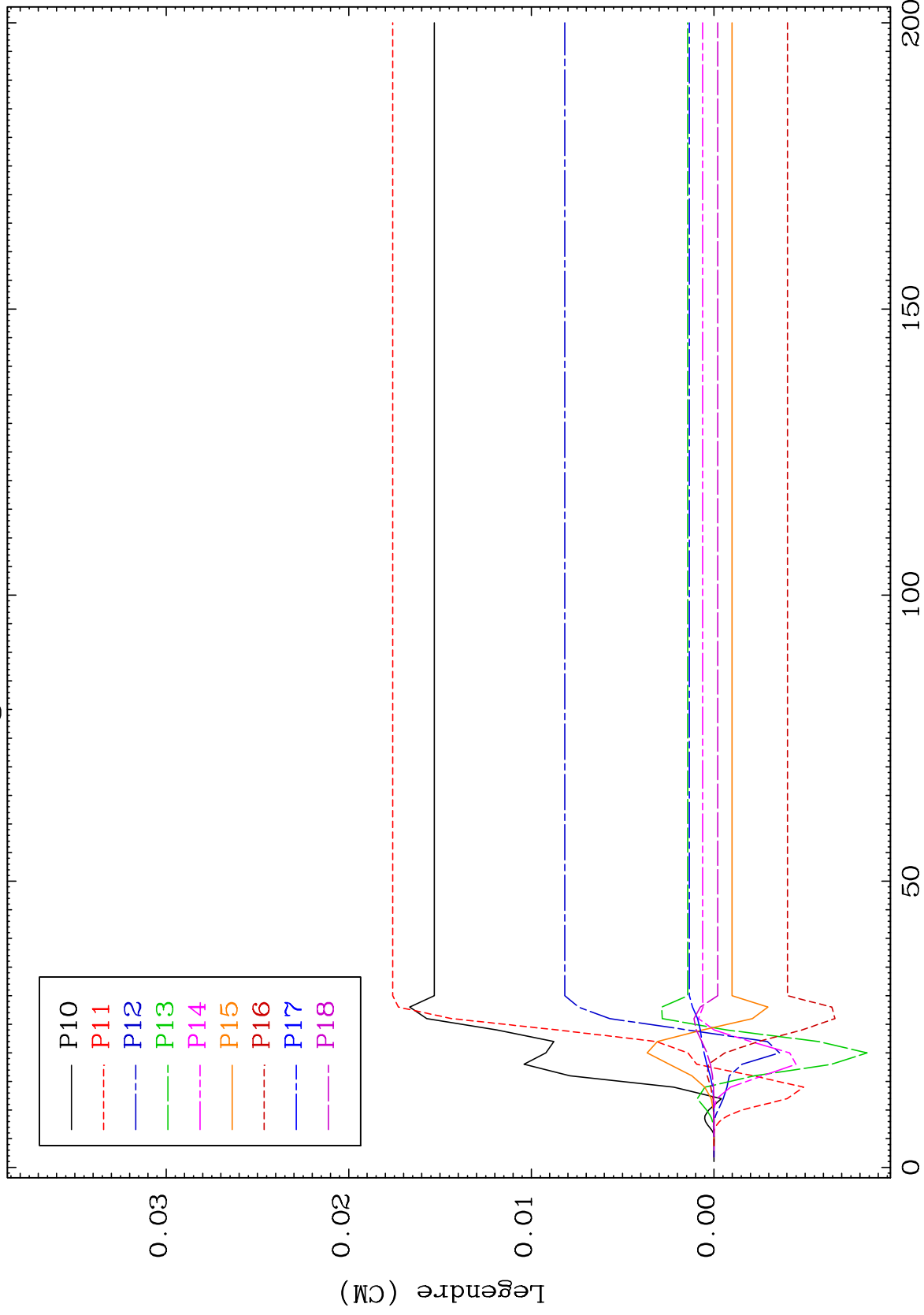




MAT 6004

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

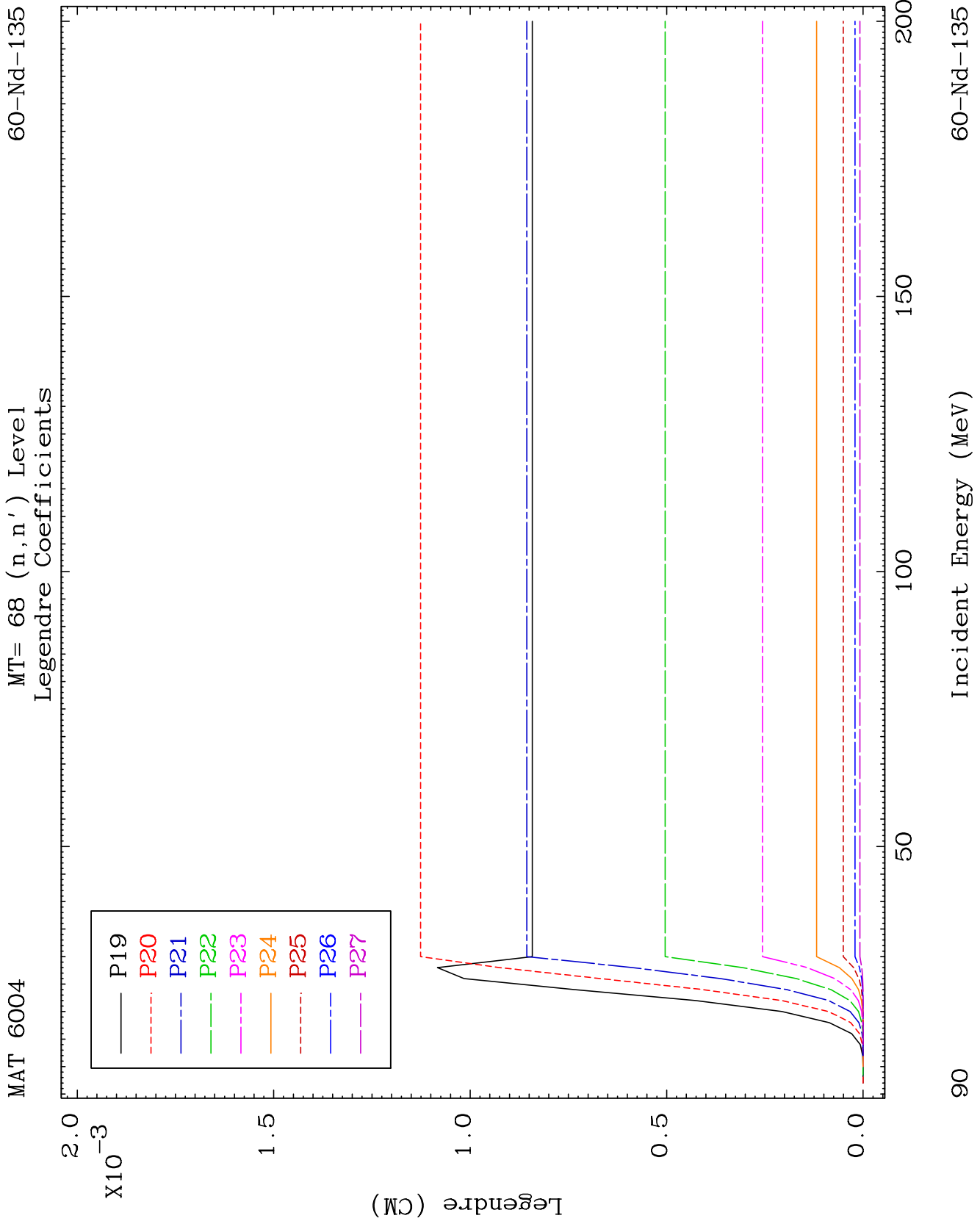
60-Nd-135



89

Incident Energy (MeV)

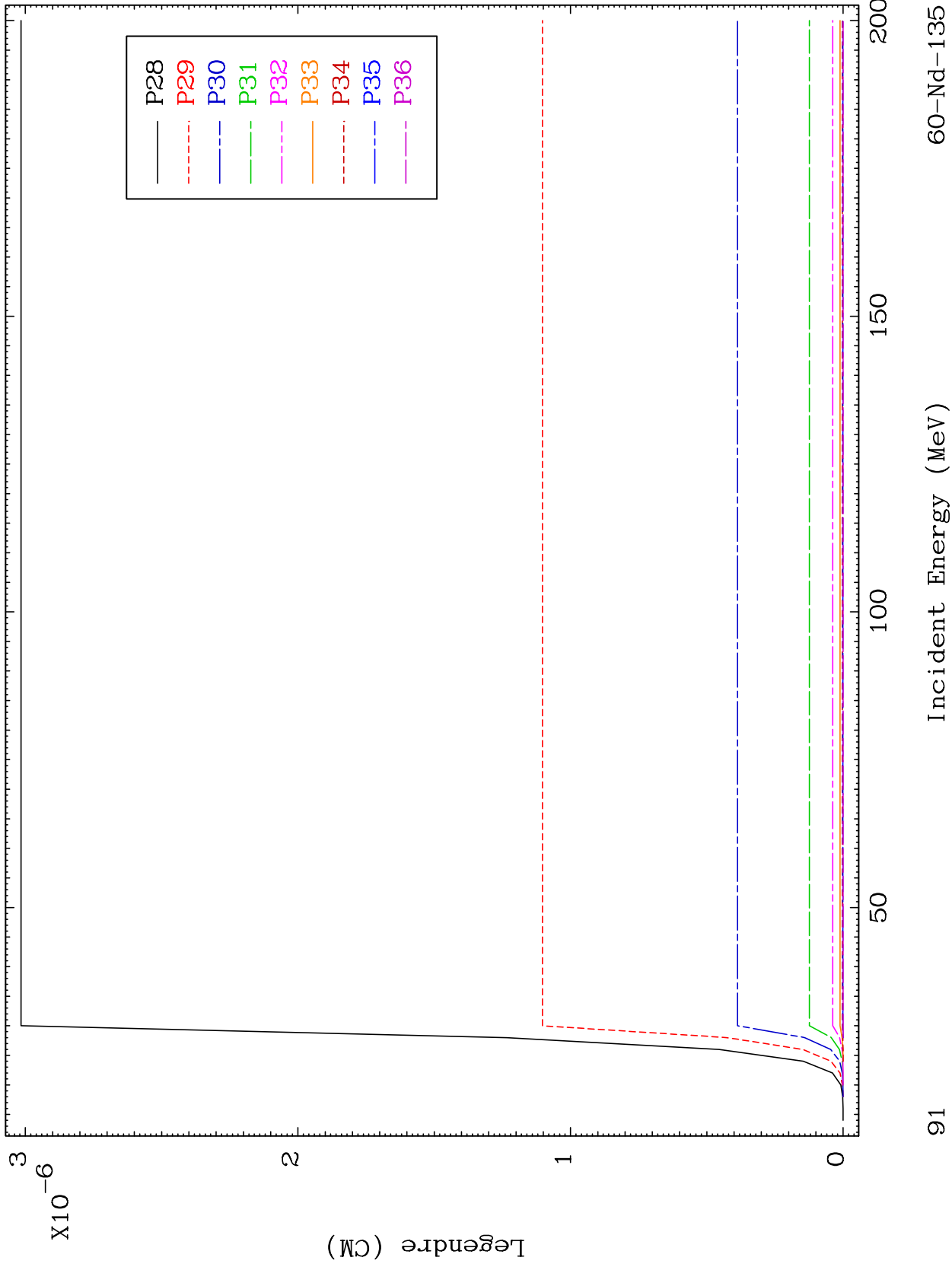
60-Nd-135

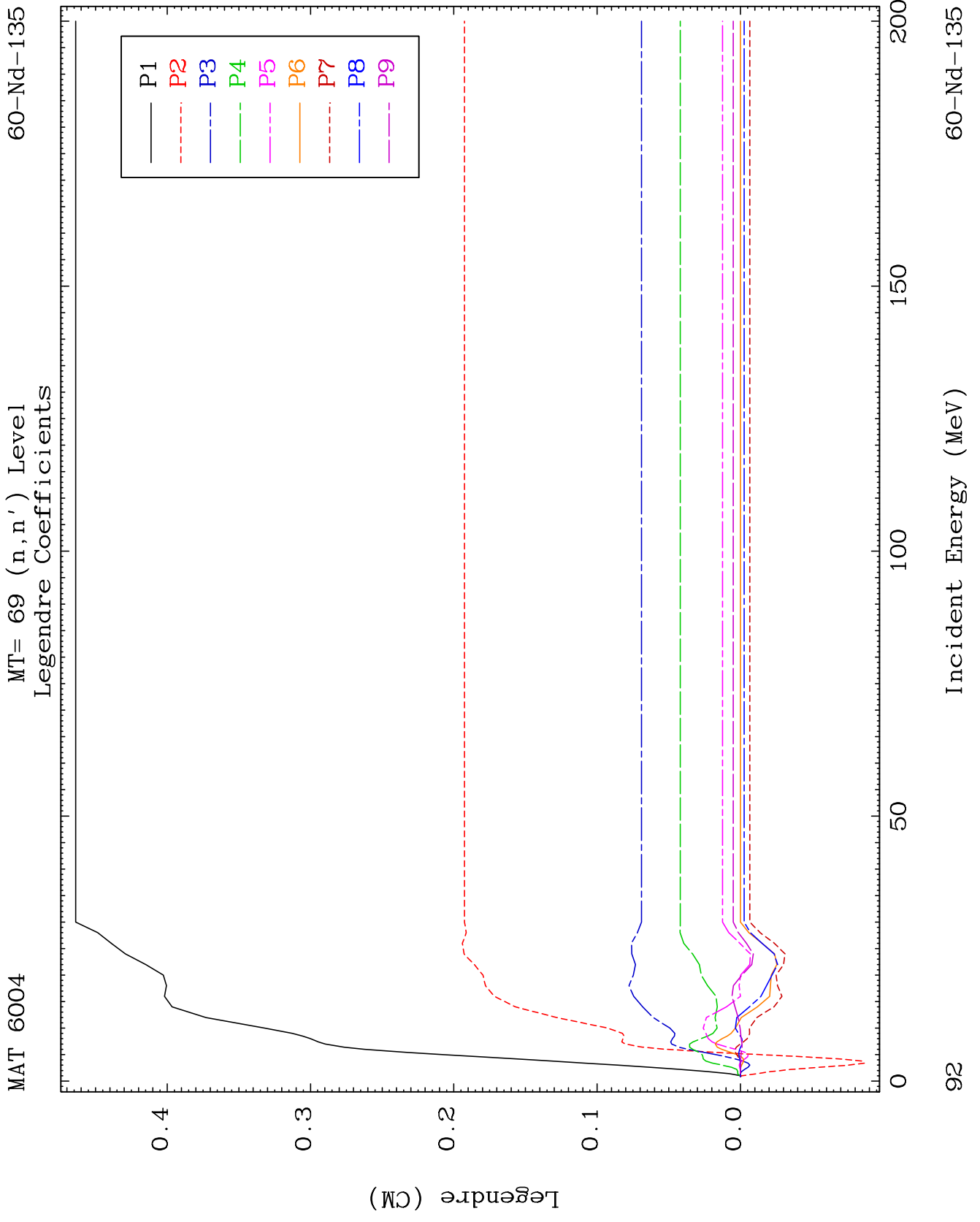


MAT 6004

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

60-Nd-135

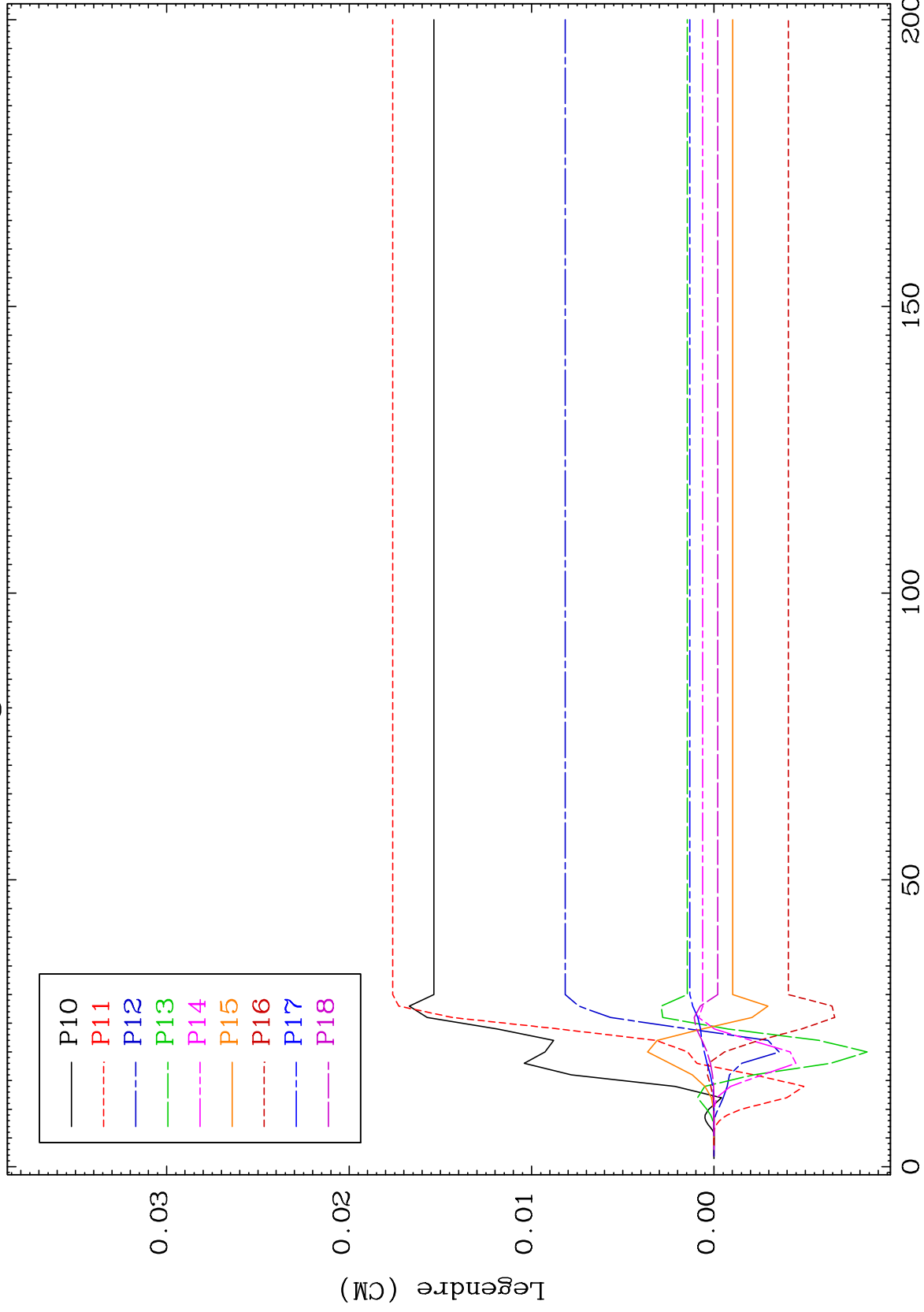




MAT 6004

MT= 69 (n,n') Level
Legendre Coefficients

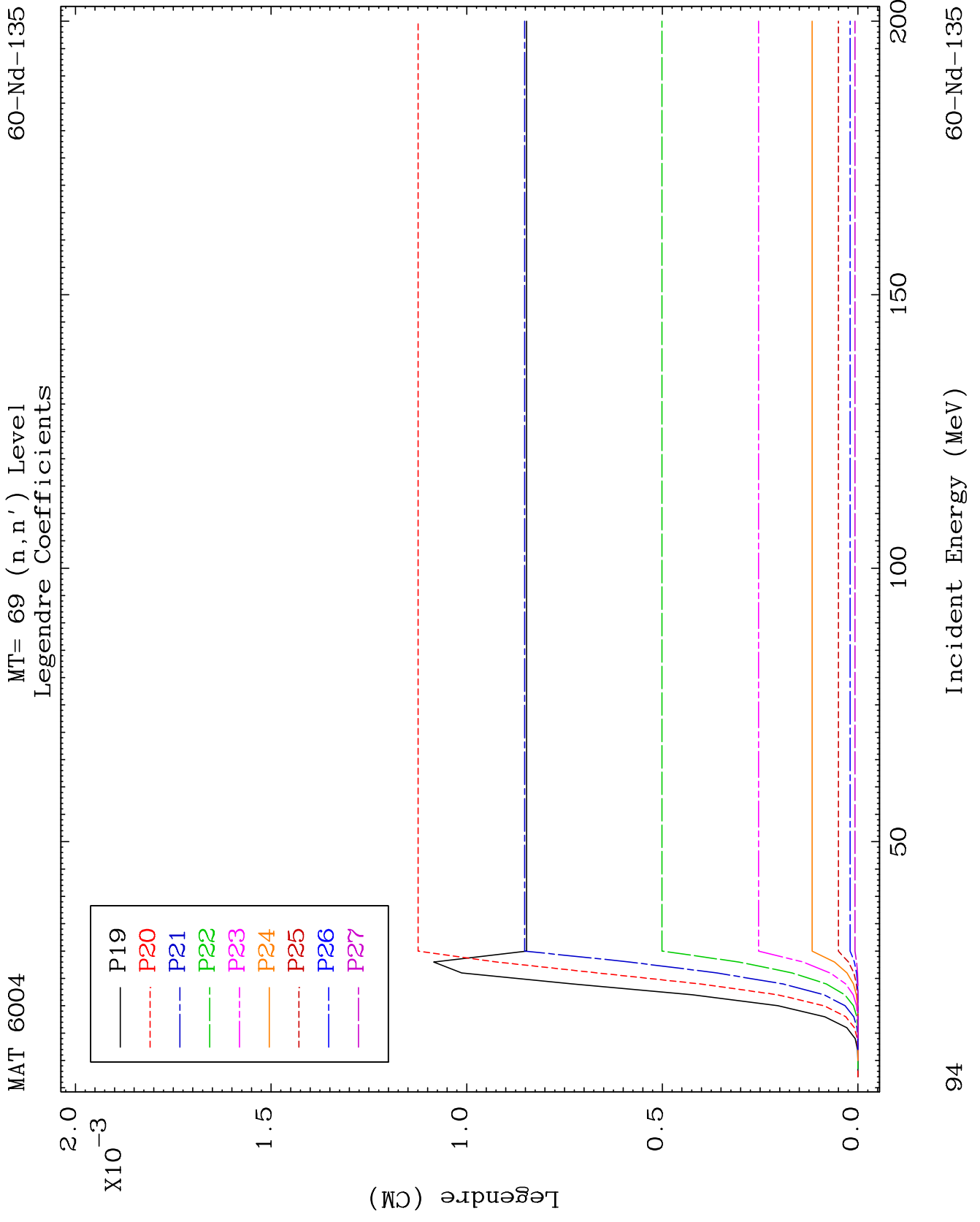
60-Nd-135



93

Incident Energy (MeV)

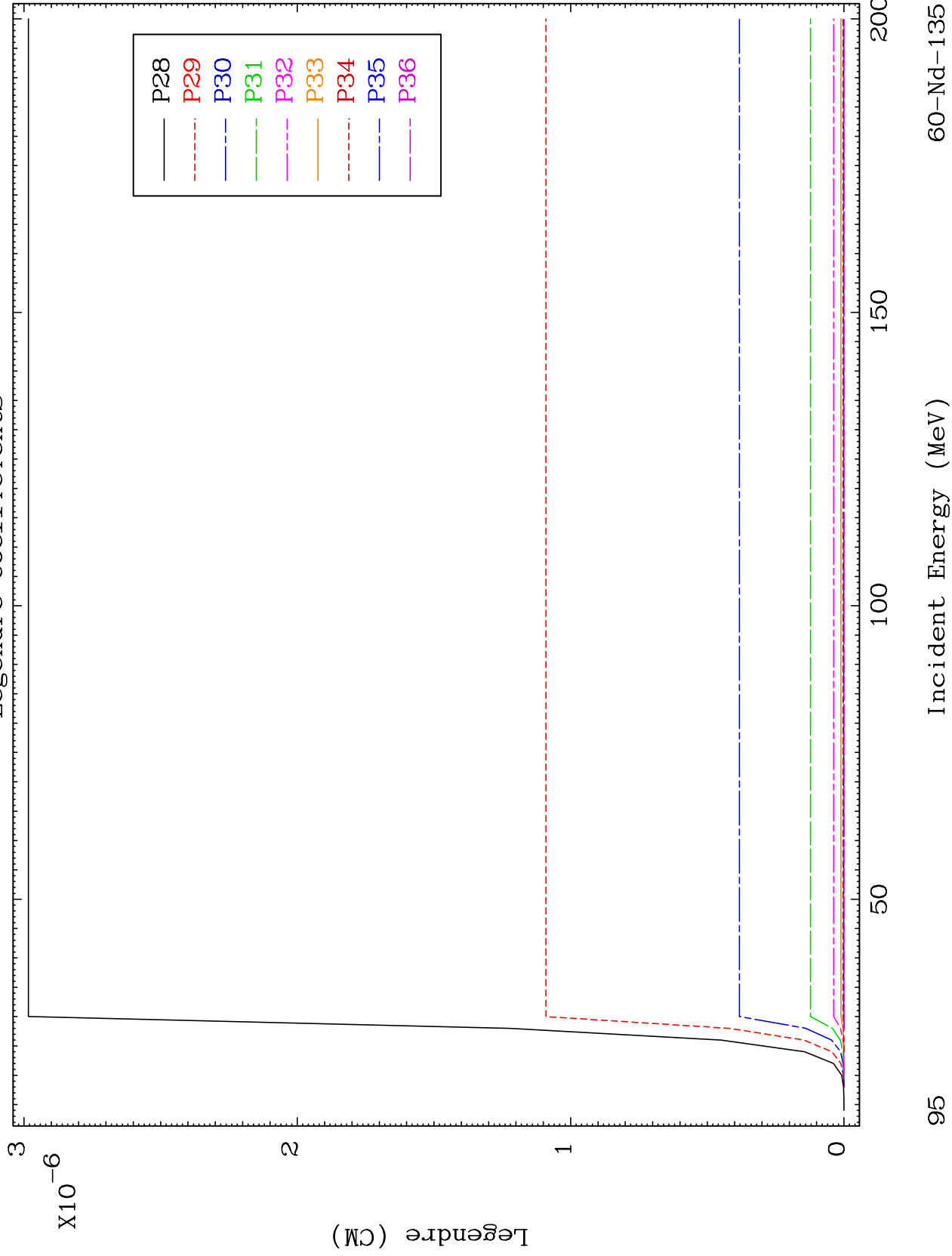
60-Nd-135



MAT 6004

MT= 69 (n,n') Level
Legendre Coefficients

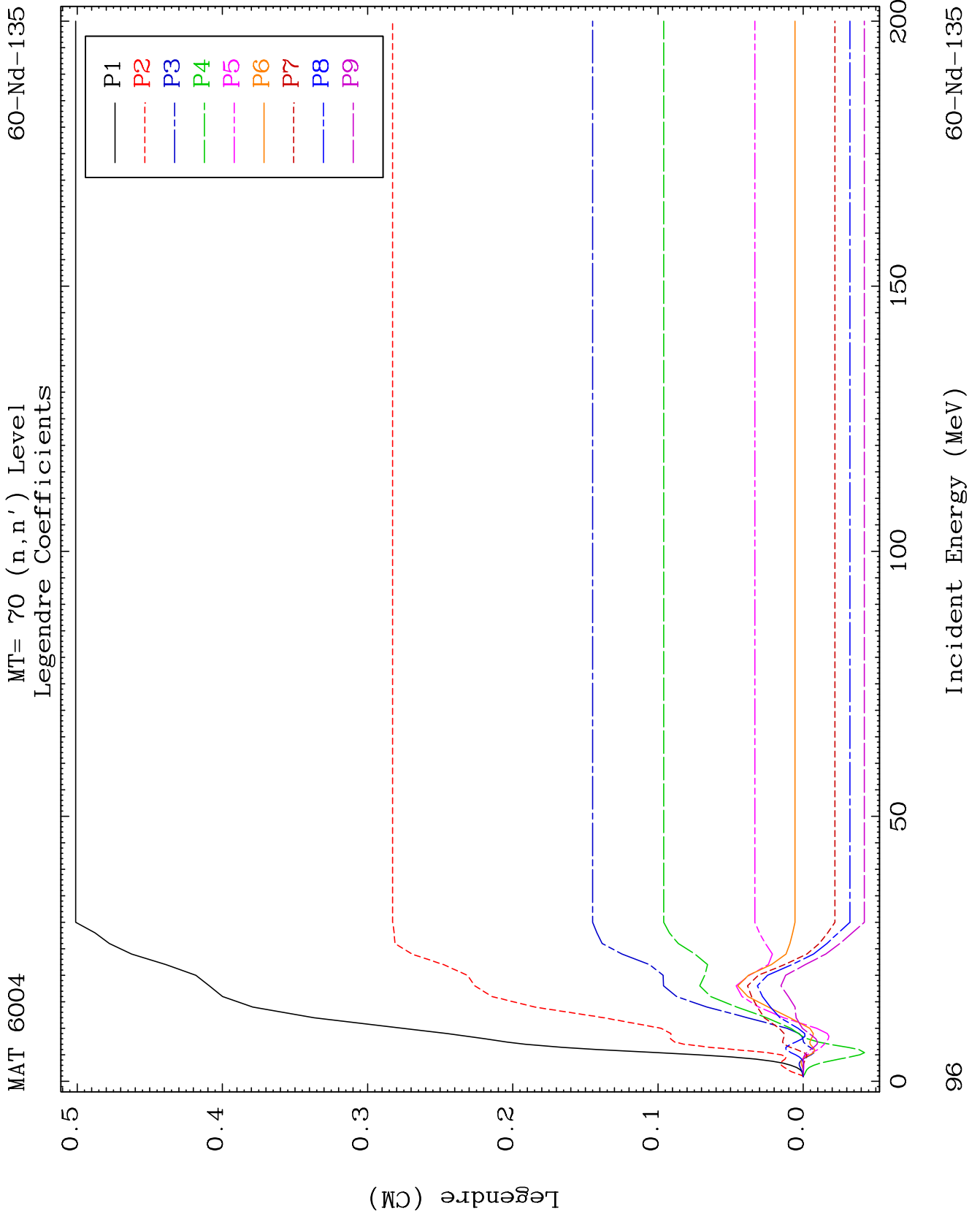
60-Nd-135

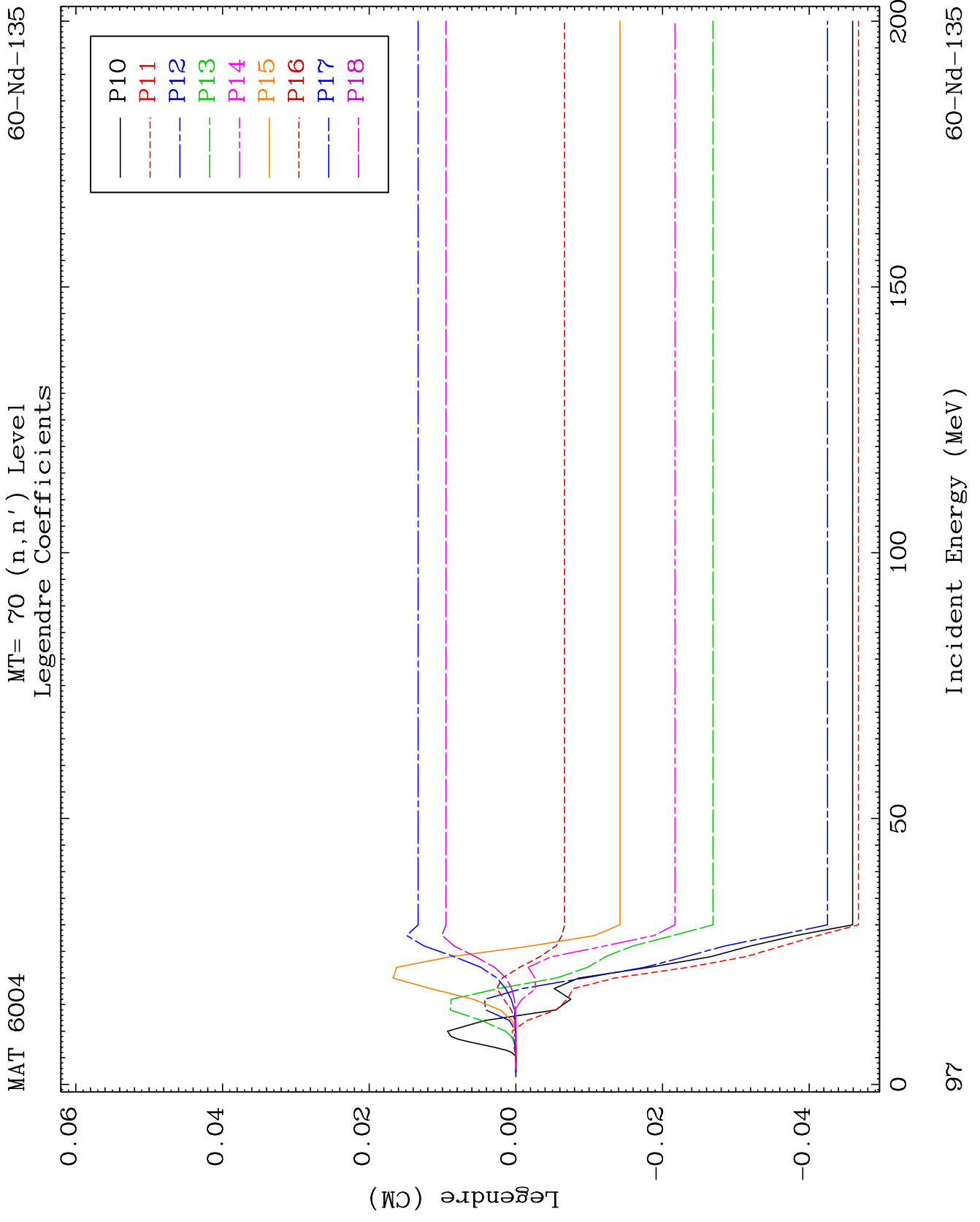


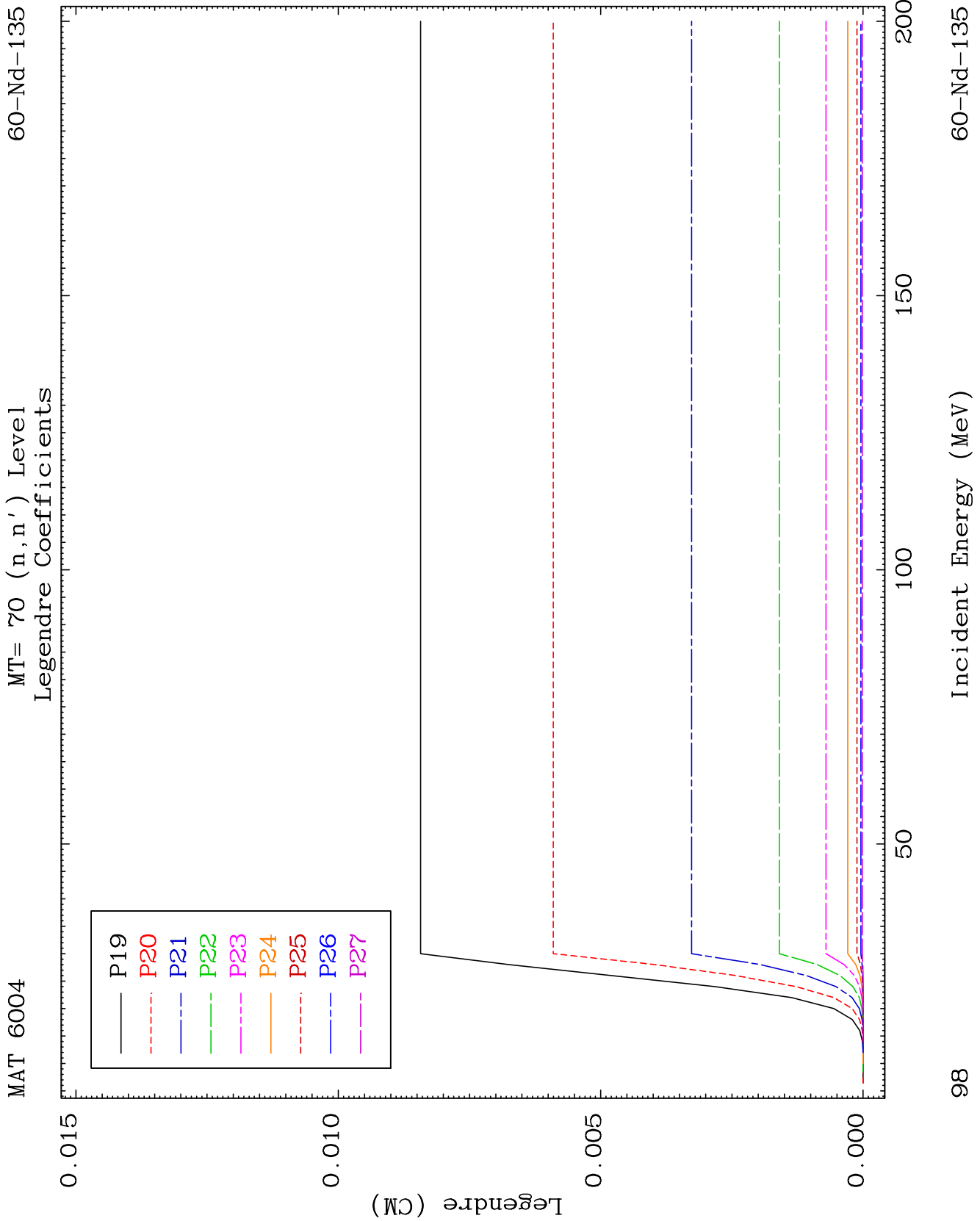
95

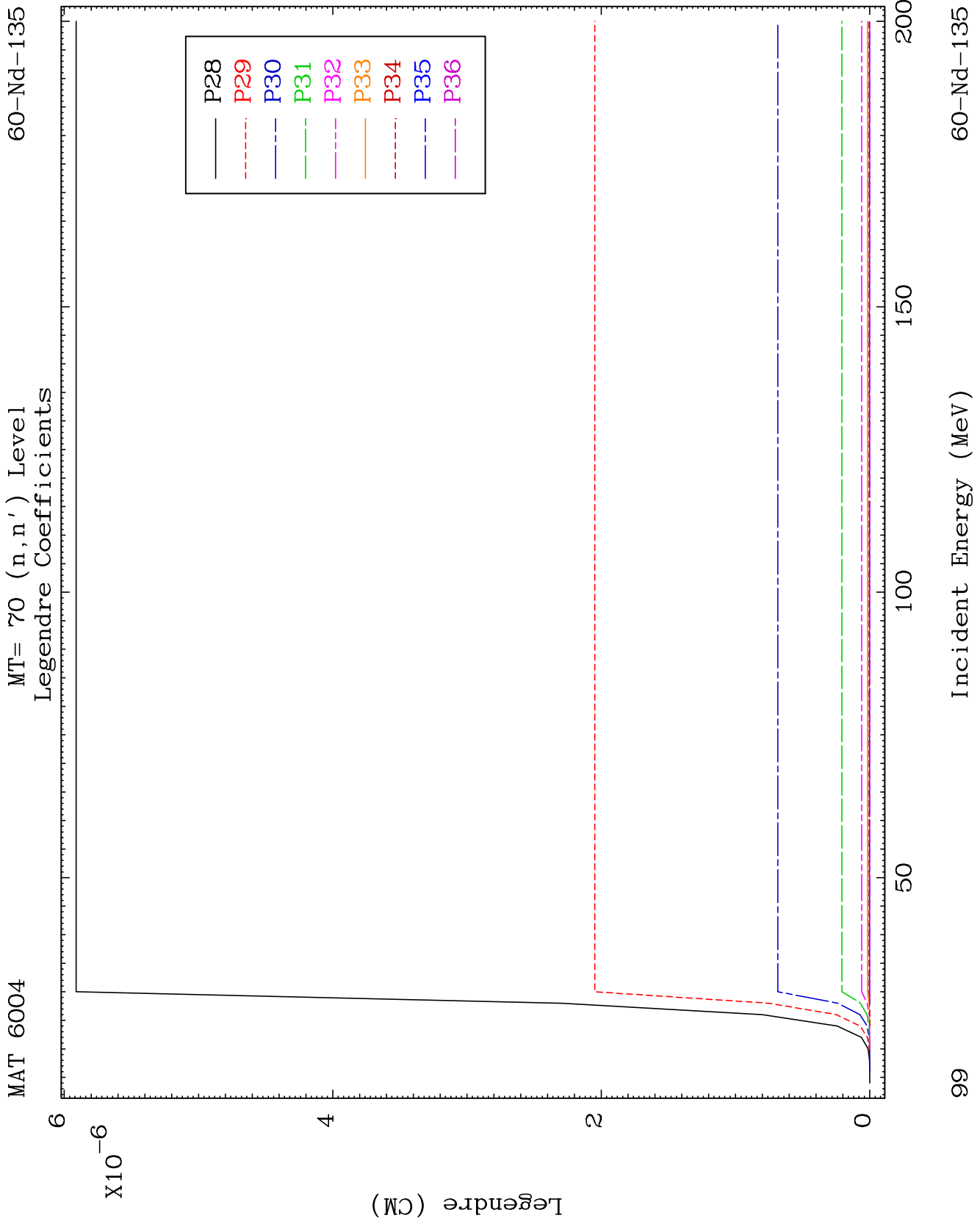
Incident Energy (MeV)

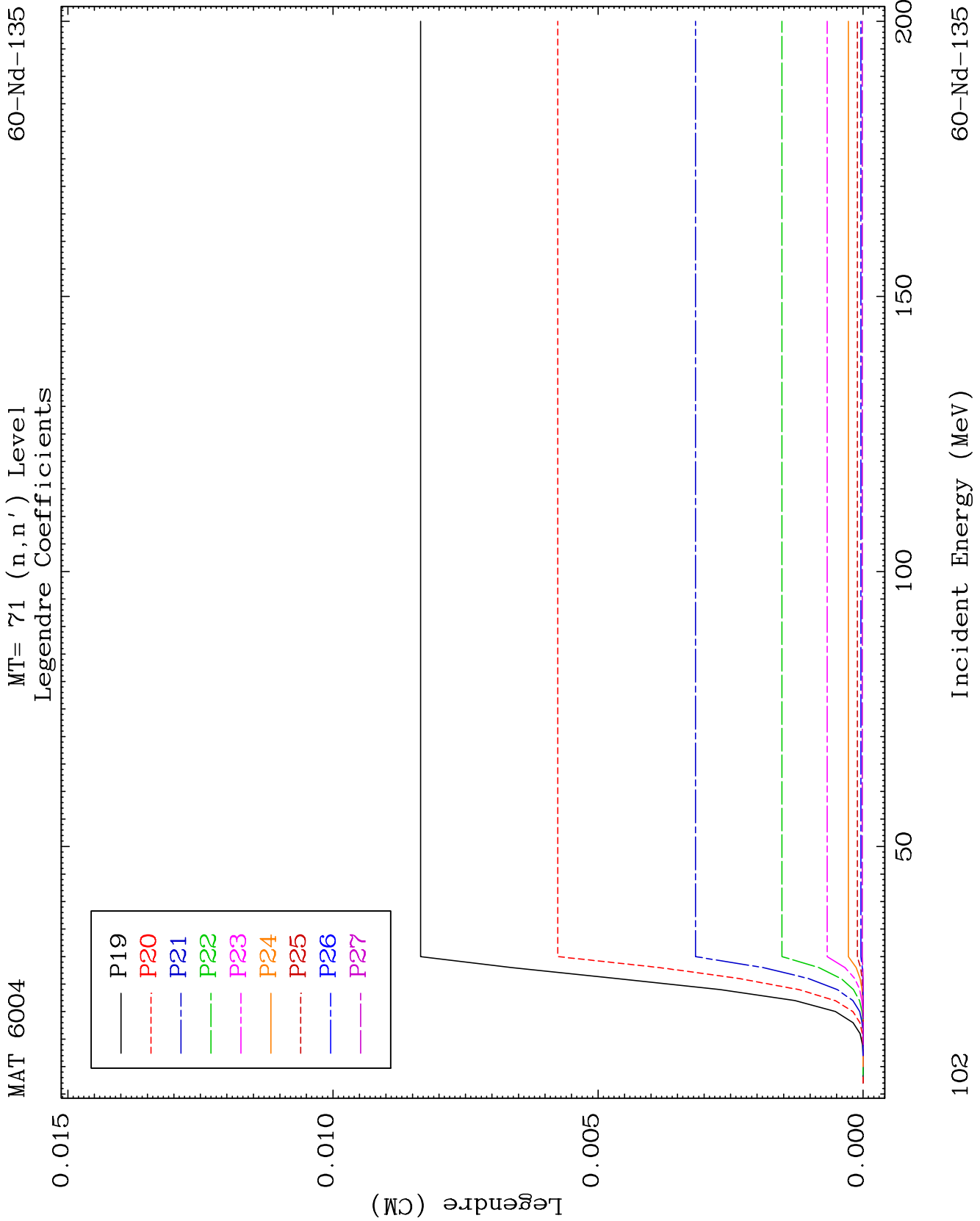
60-Nd-135

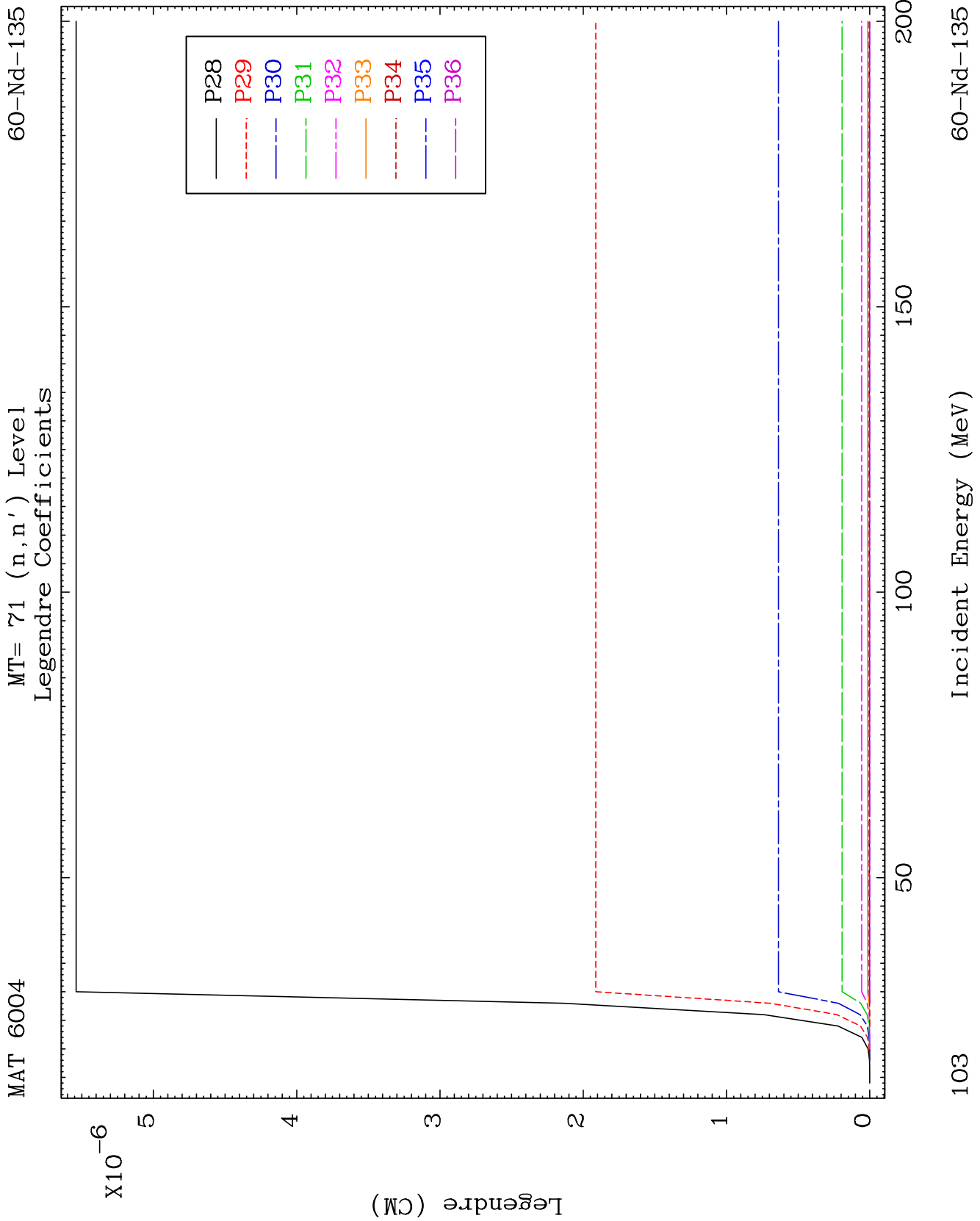


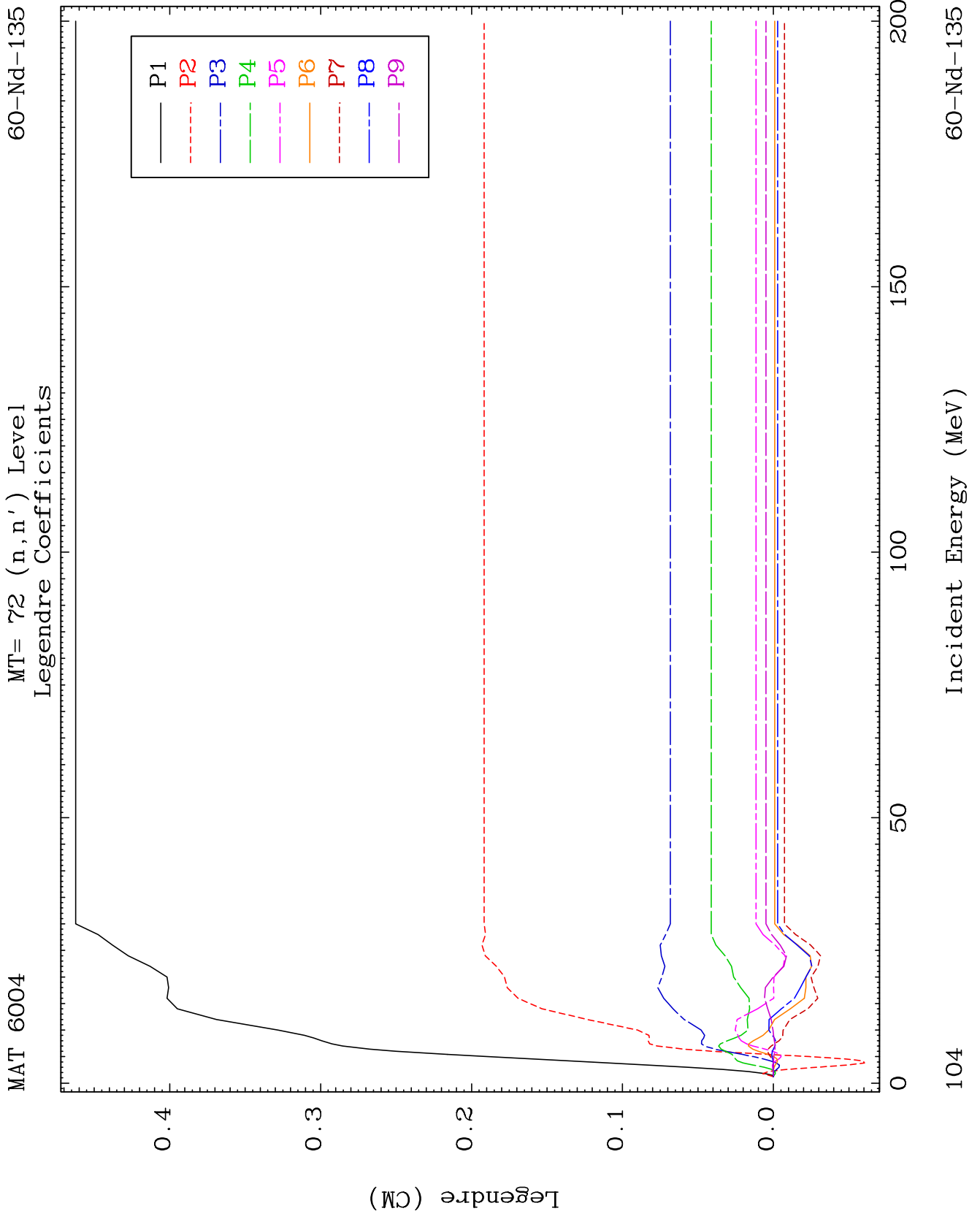








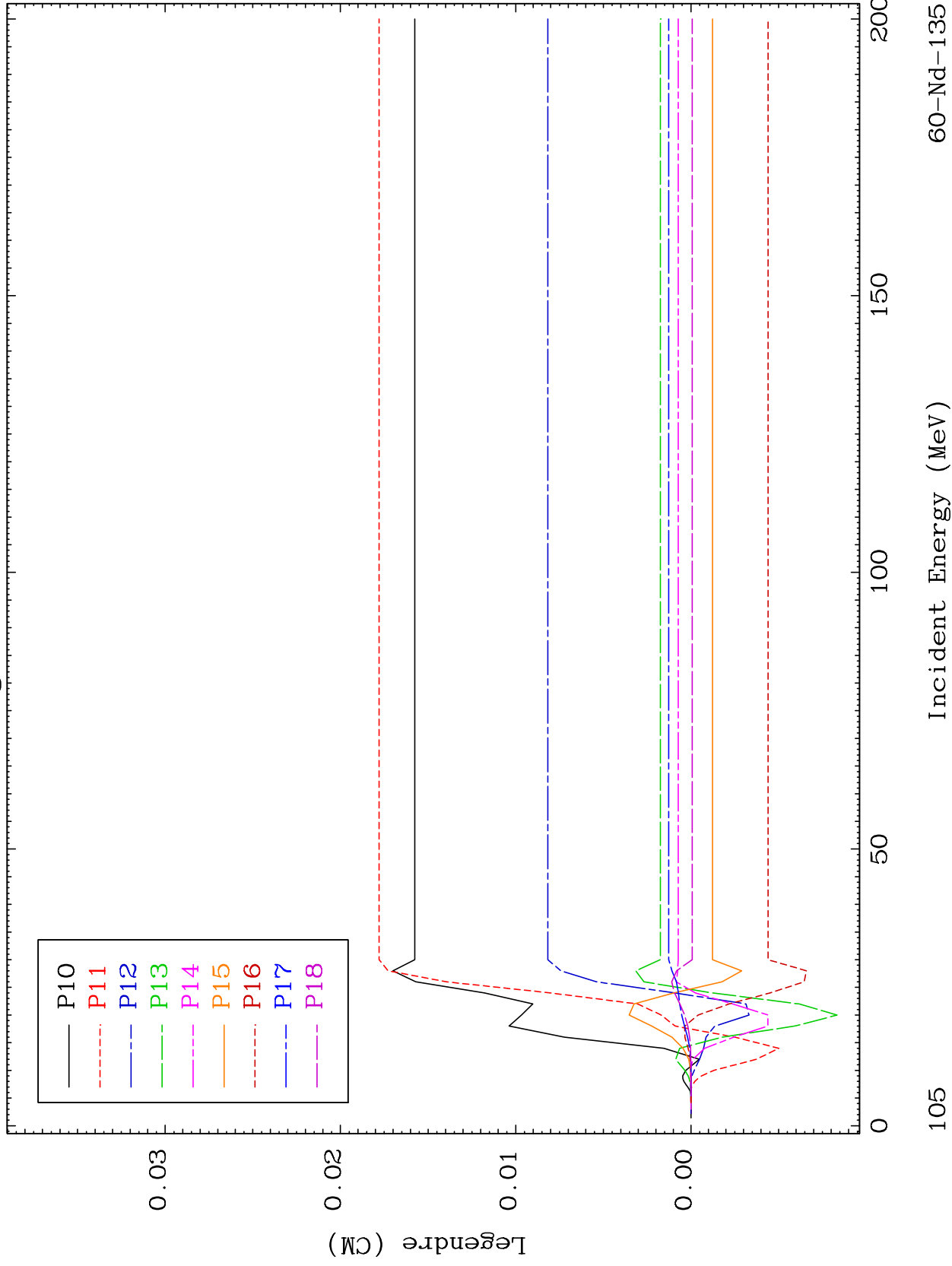




MAT 6004

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

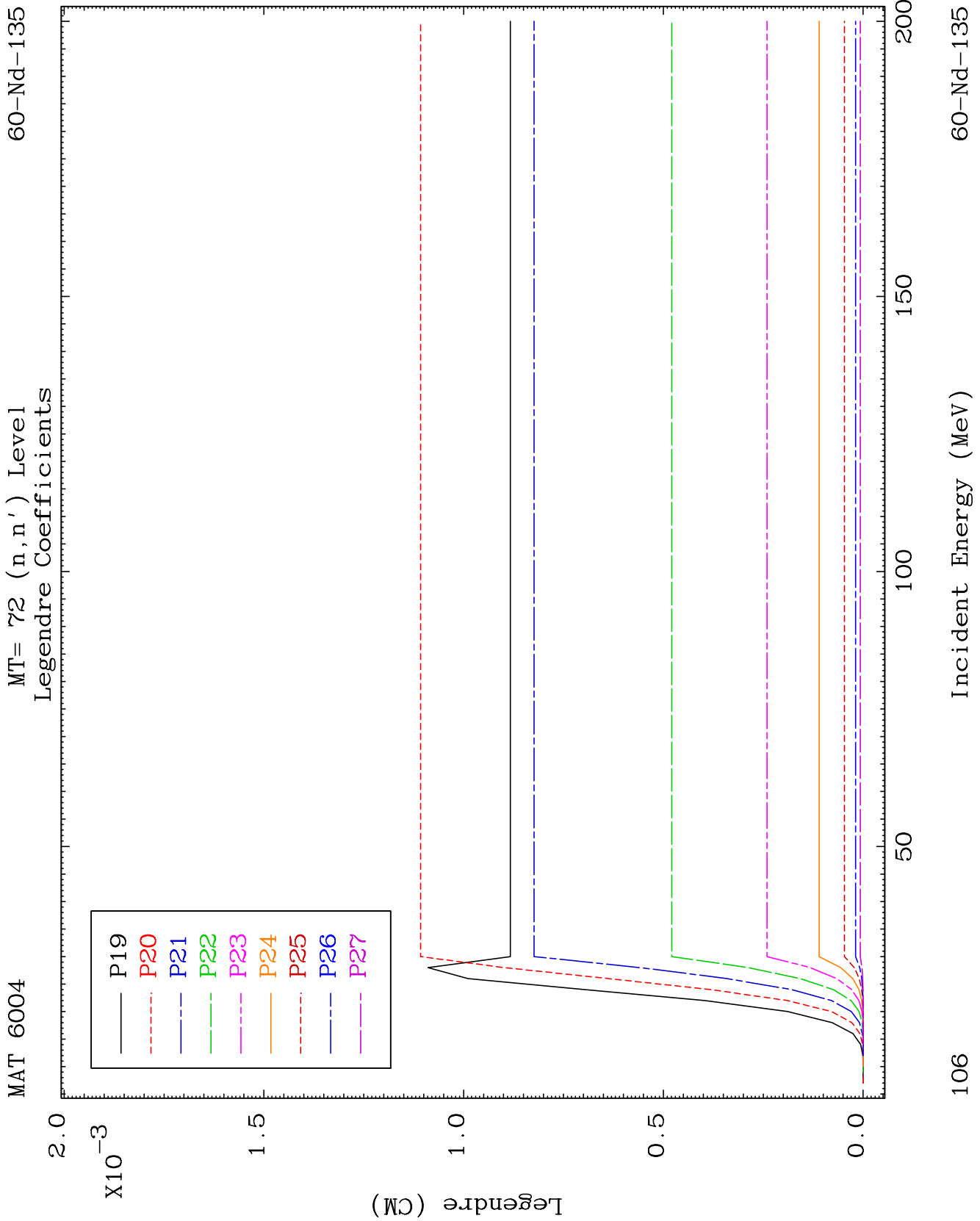
60-Nd-135



60-Nd-135

Incident Energy (MeV)

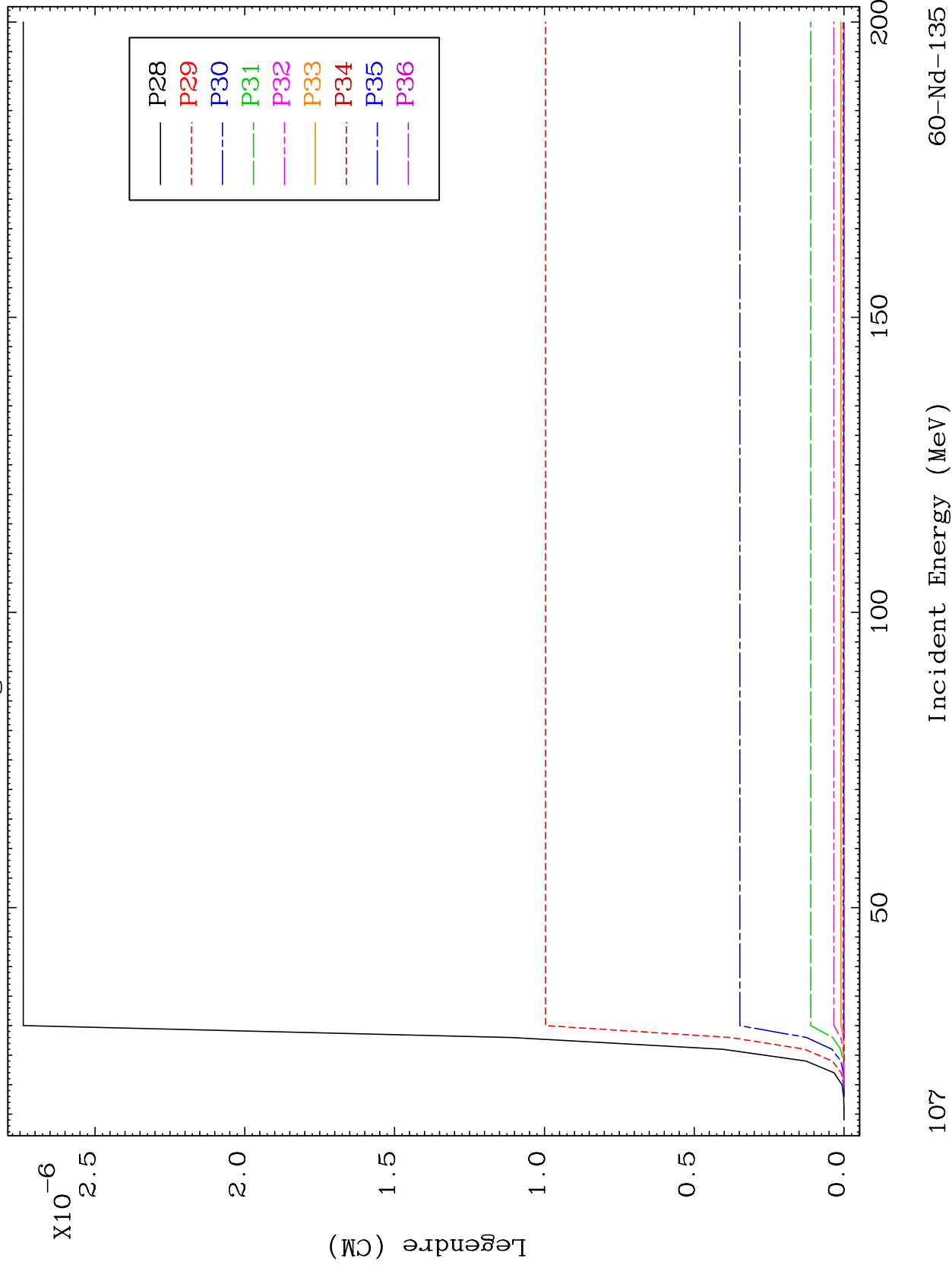
105



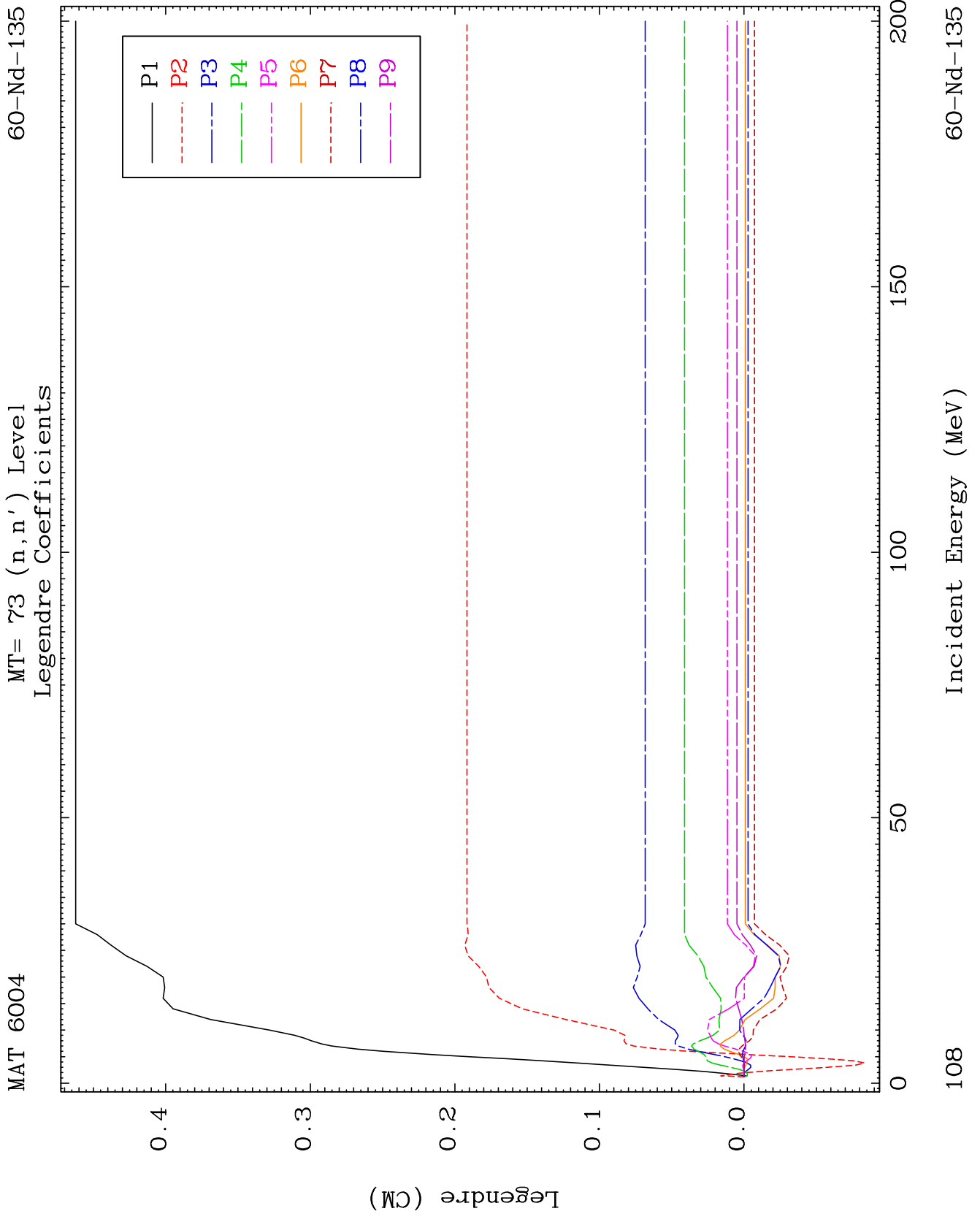
MAT 6004

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

60-Nd-135



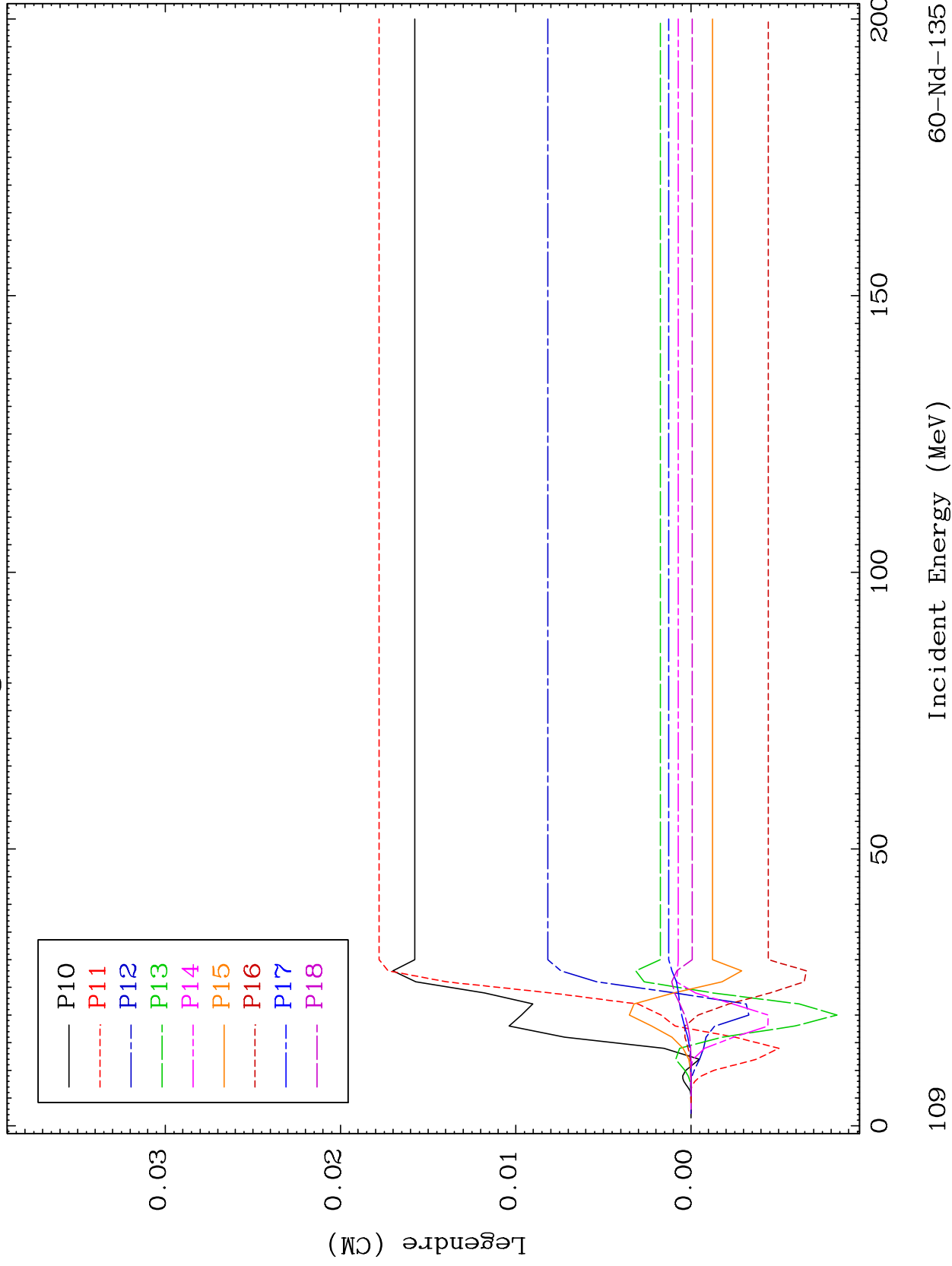
107



MAT 6004

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

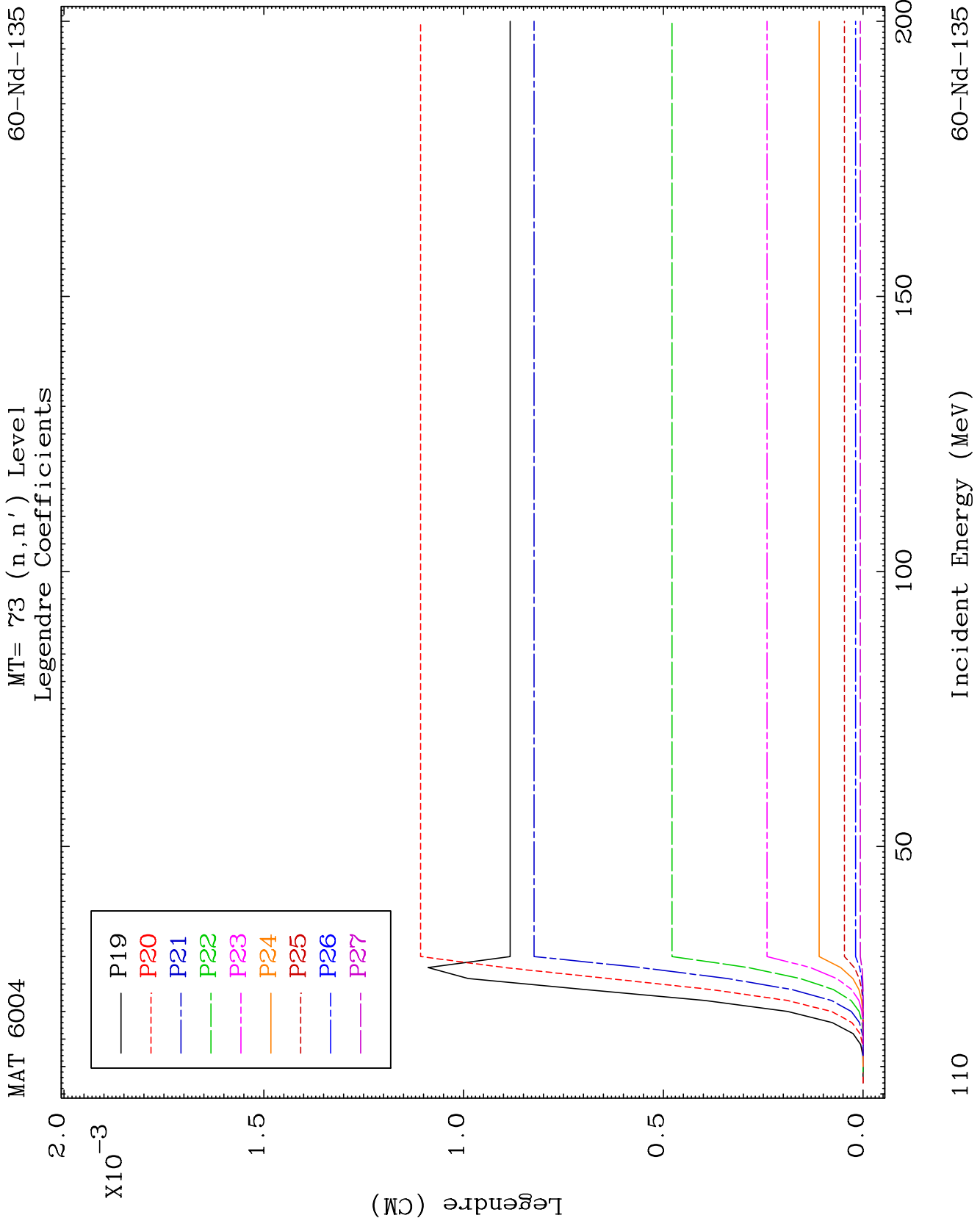
60-Nd-135



109

Incident Energy (MeV)

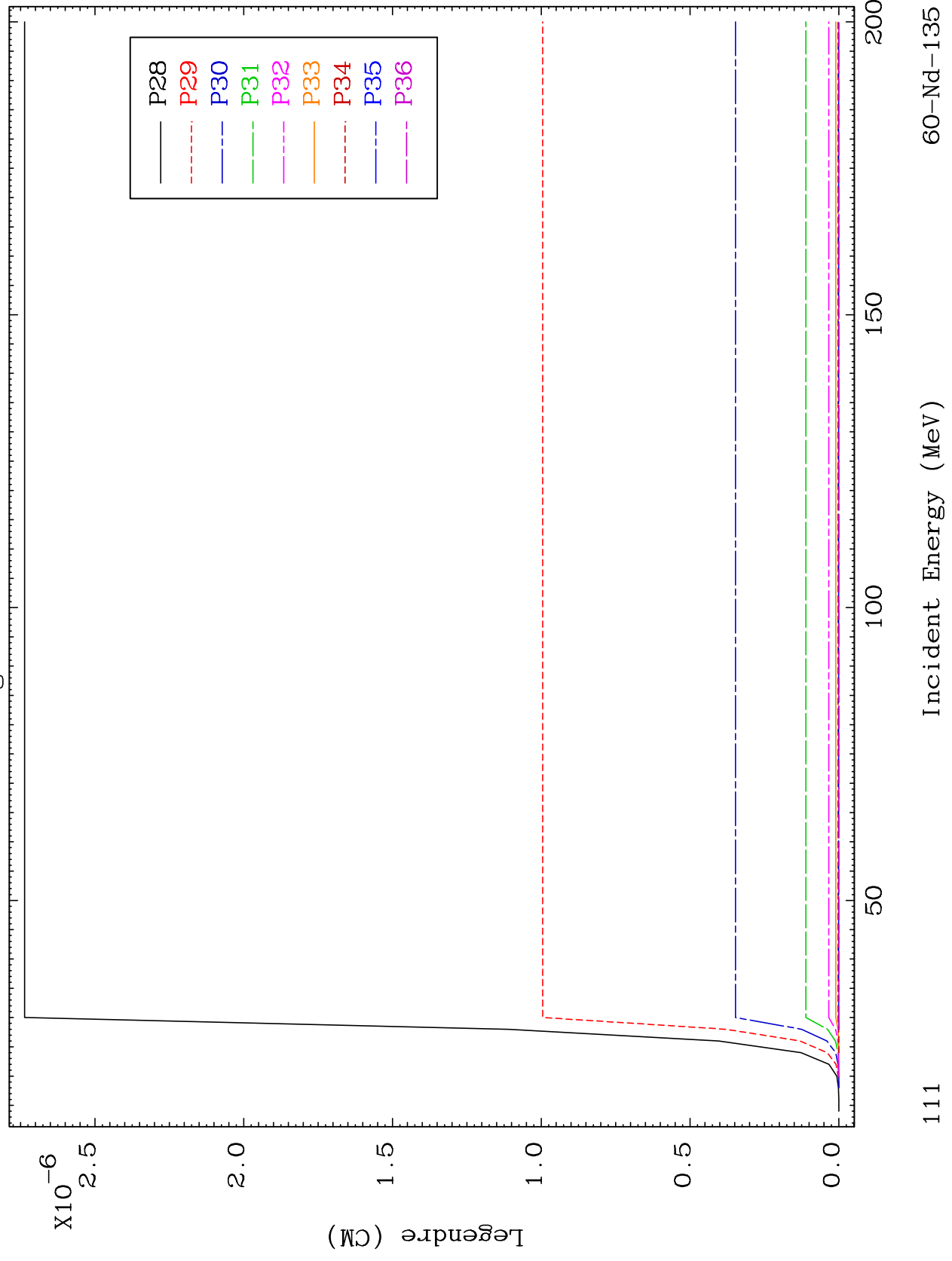
60-Nd-135



MAT 6004

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

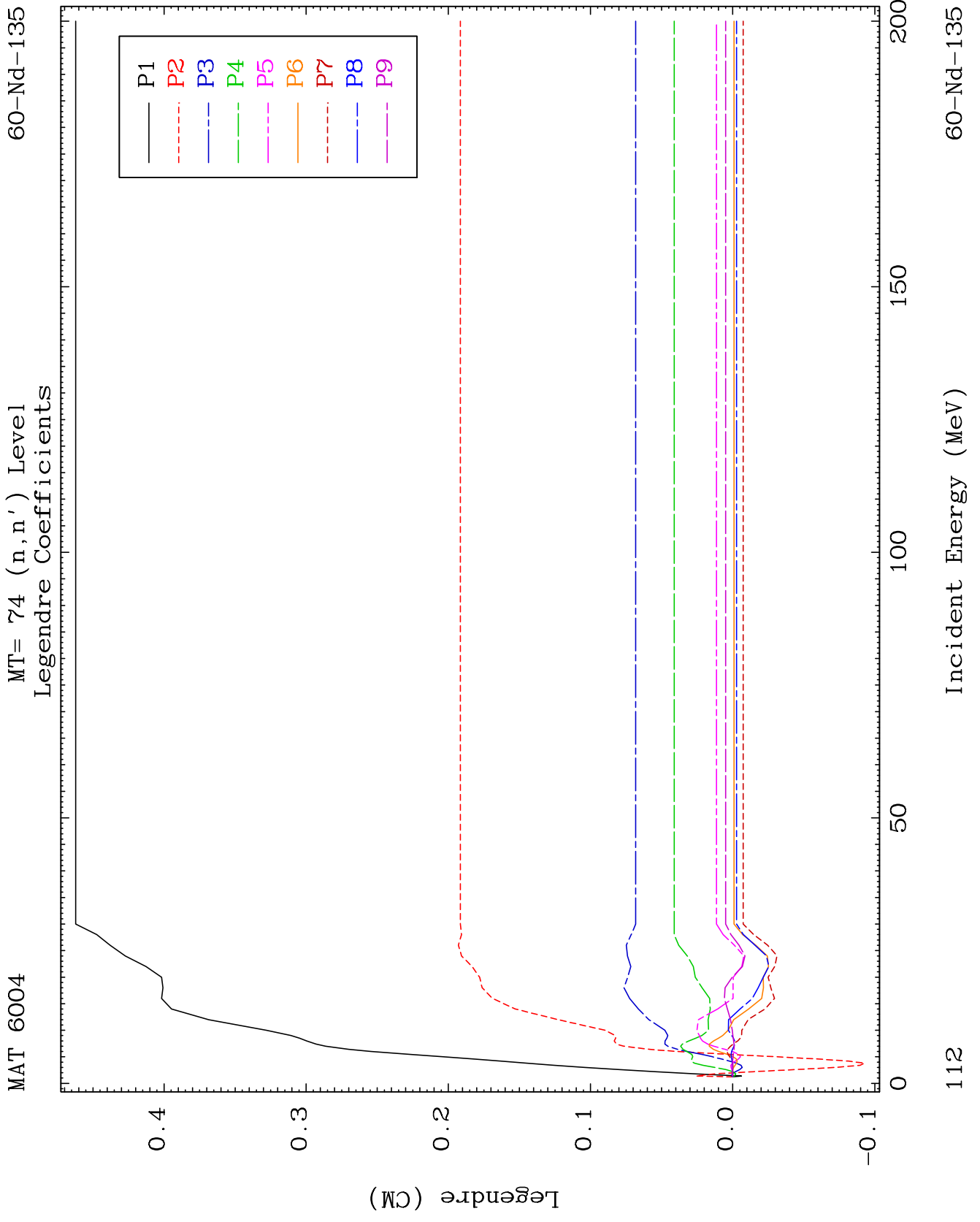
60-Nd-135



60-Nd-135

Incident Energy (MeV)

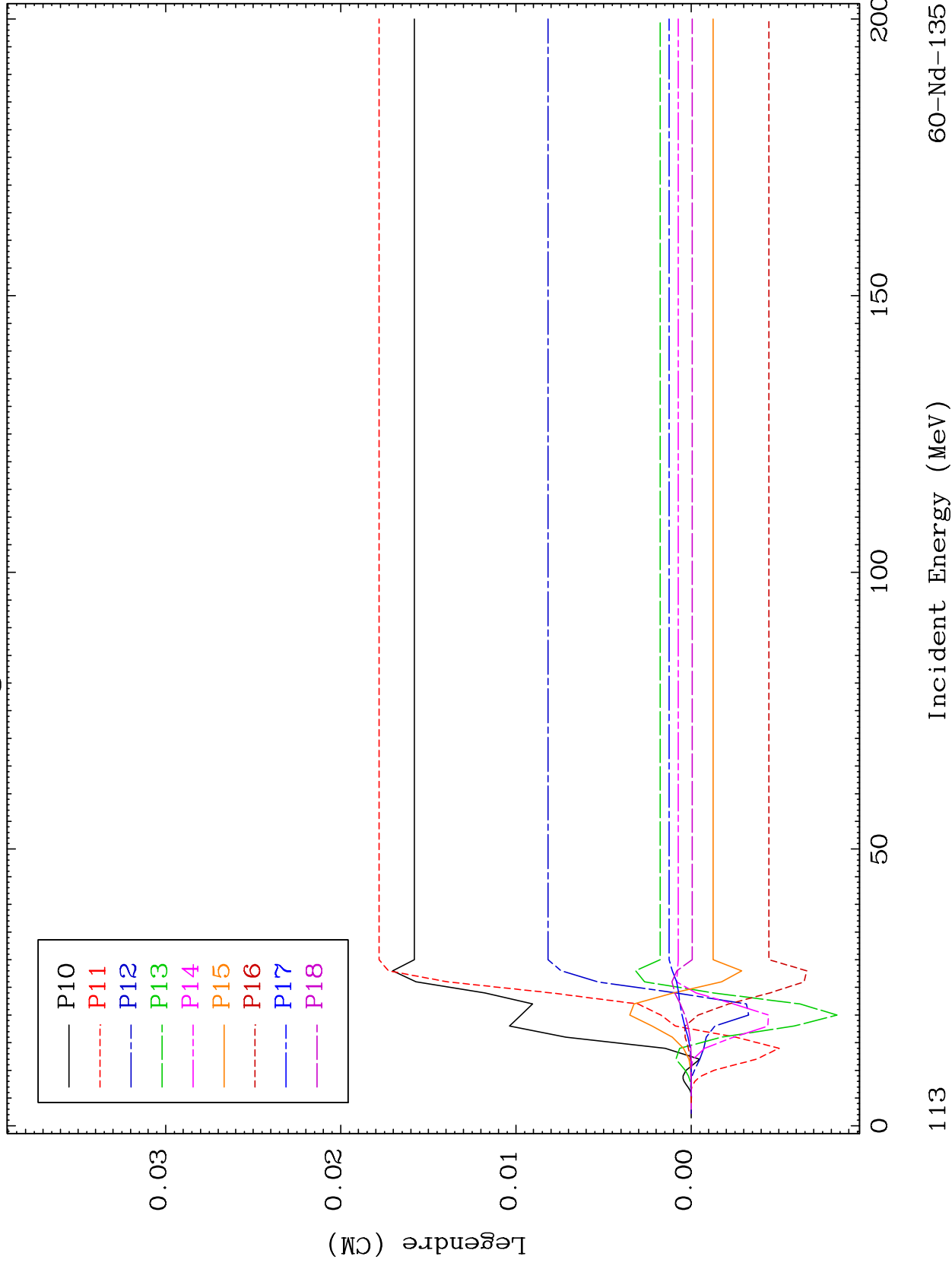
111



MAT 6004

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

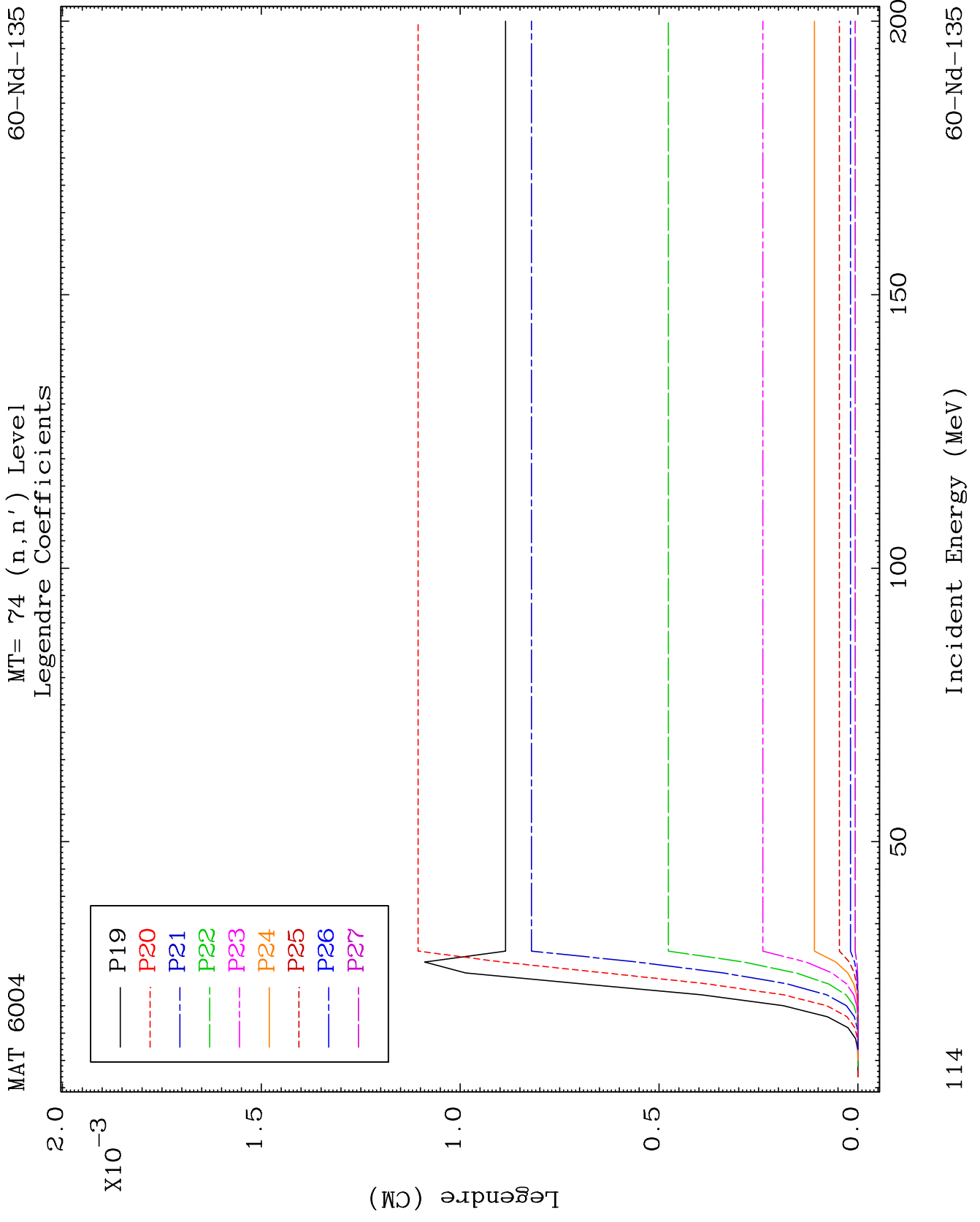
60-Nd-135

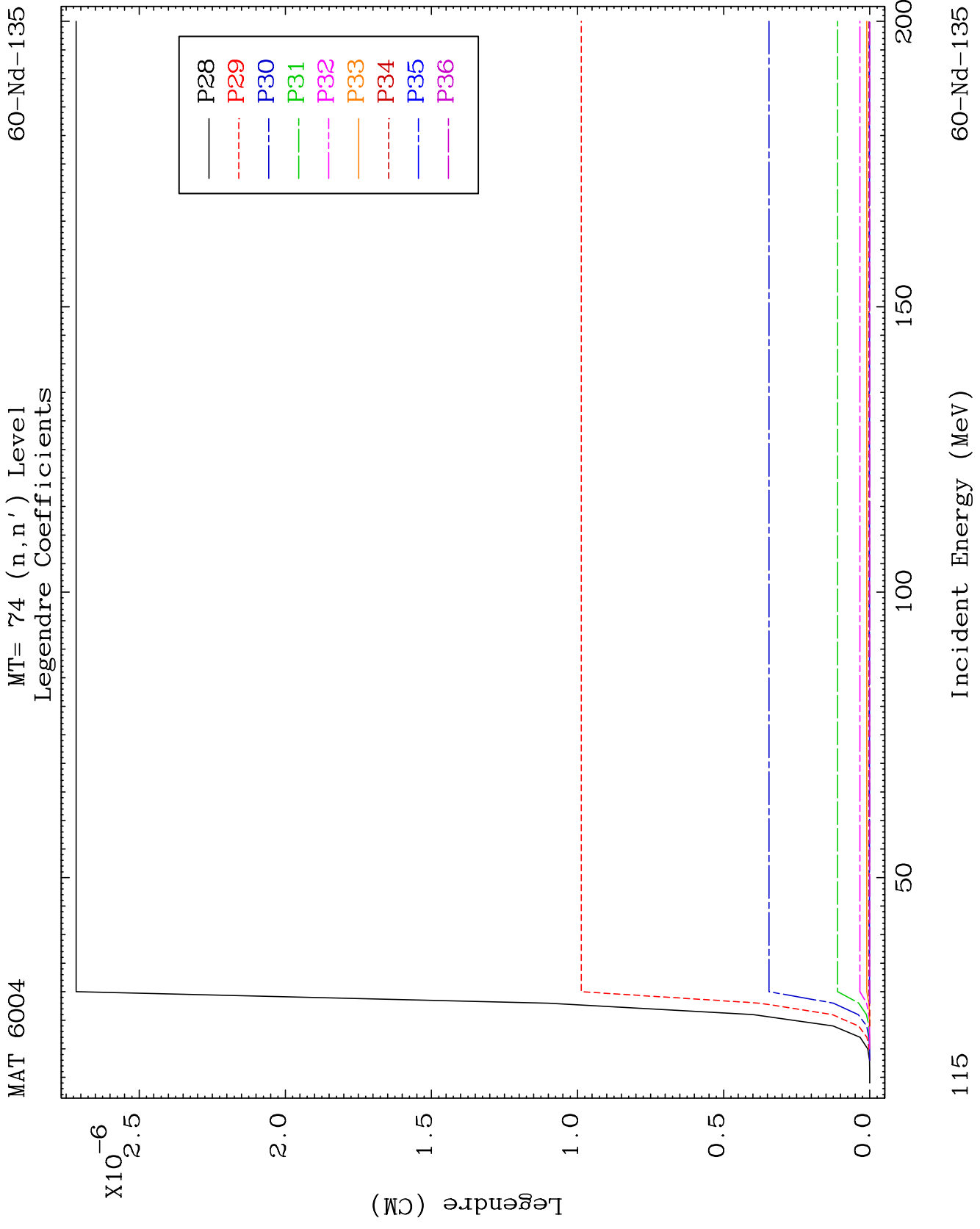


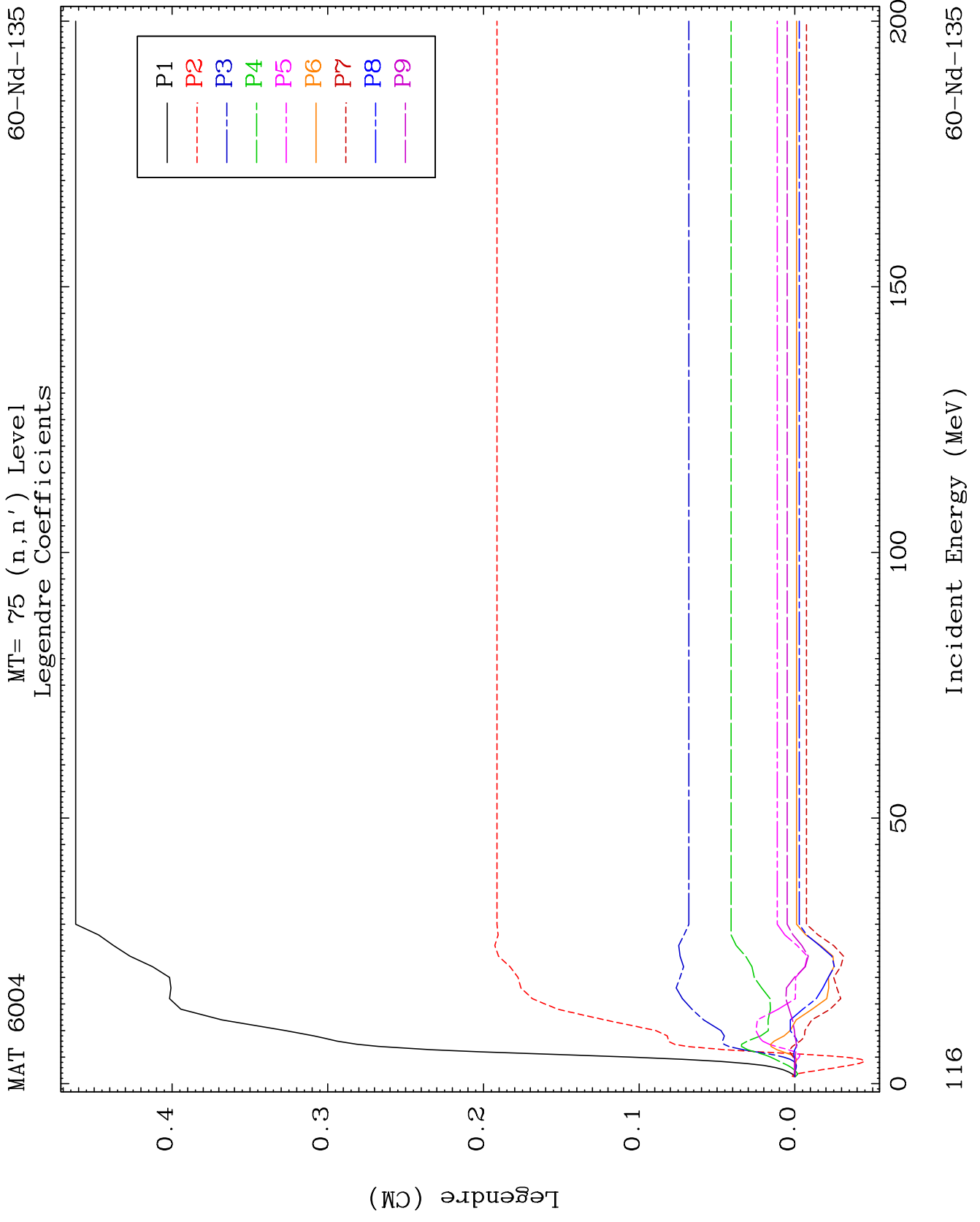
113

Incident Energy (MeV)

60-Nd-135



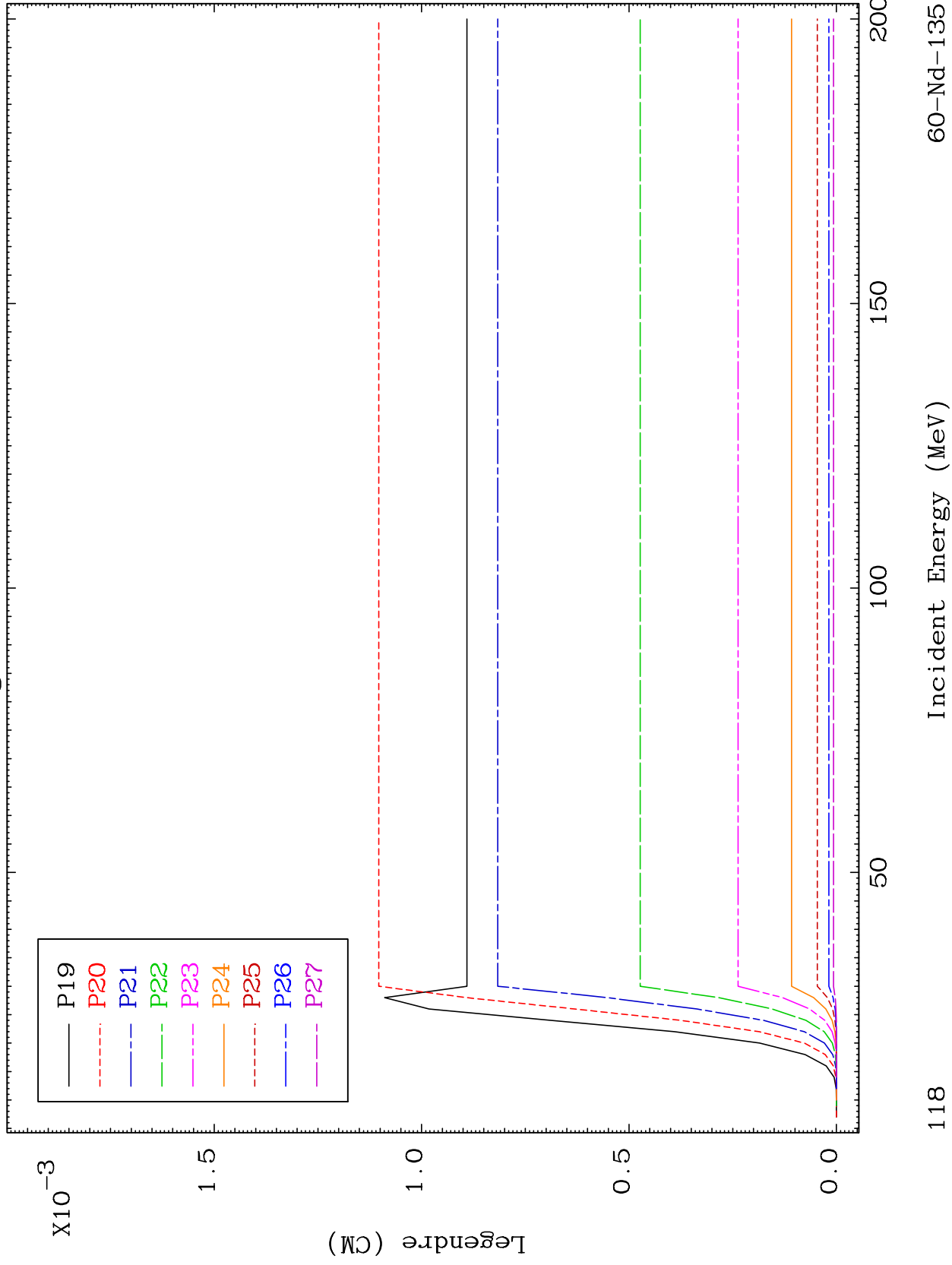




MAT 6004

MT= 75 (n,n') Level
Legendre Coefficients

60-Nd-135

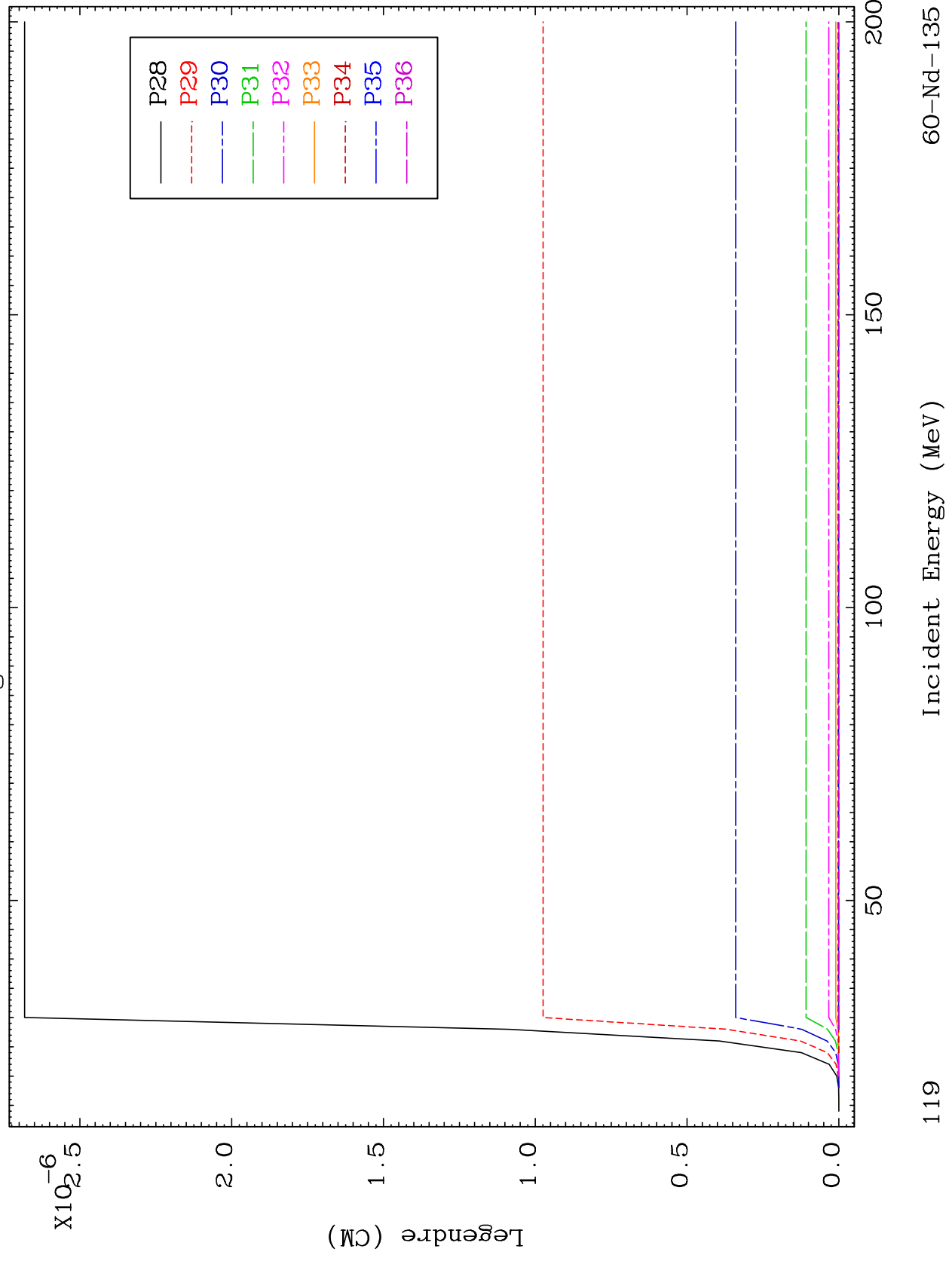


118

MAT 6004

MT= 75 (n,n') Level
Legendre Coefficients

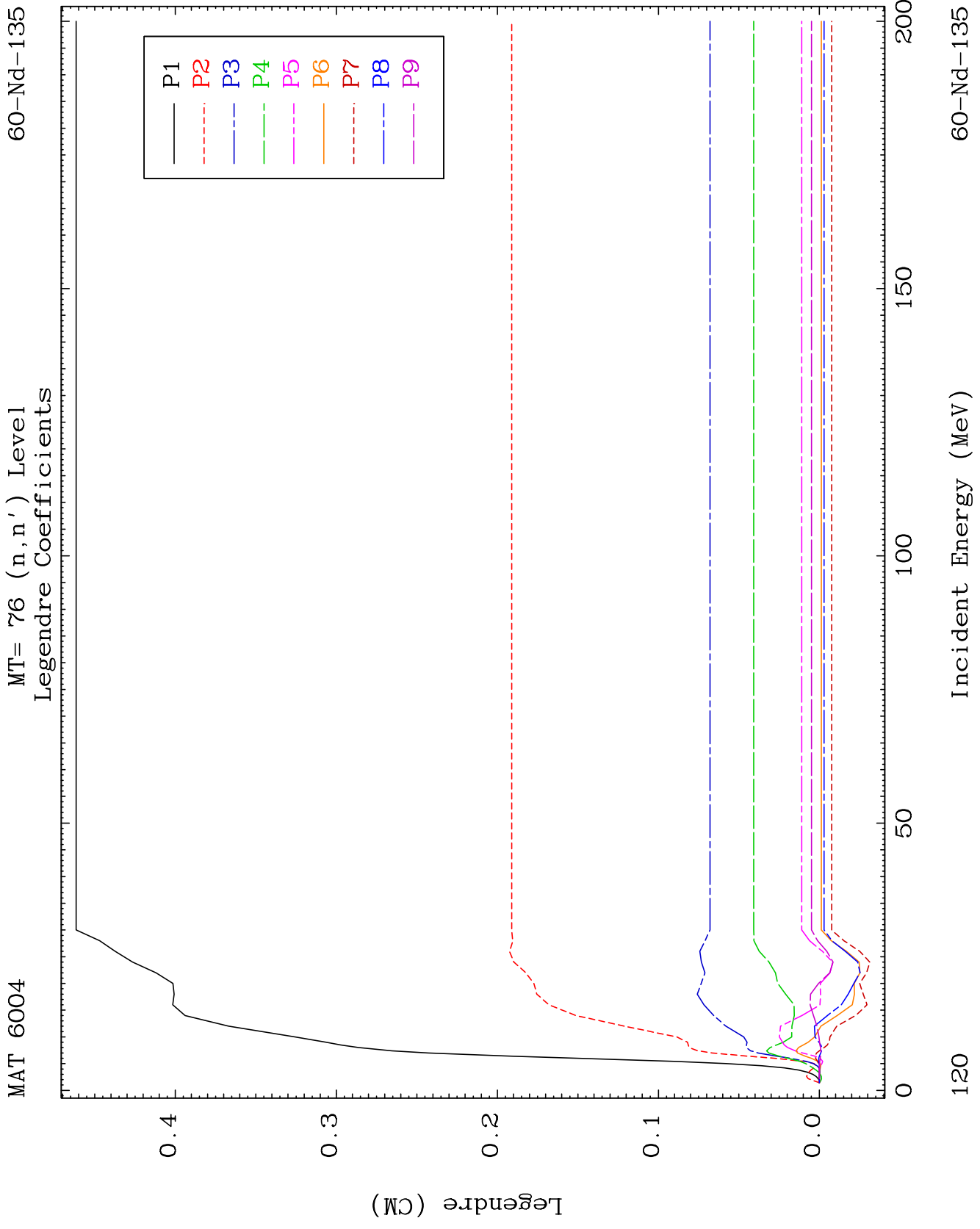
60-Nd-135



60-Nd-135

Incident Energy (MeV)

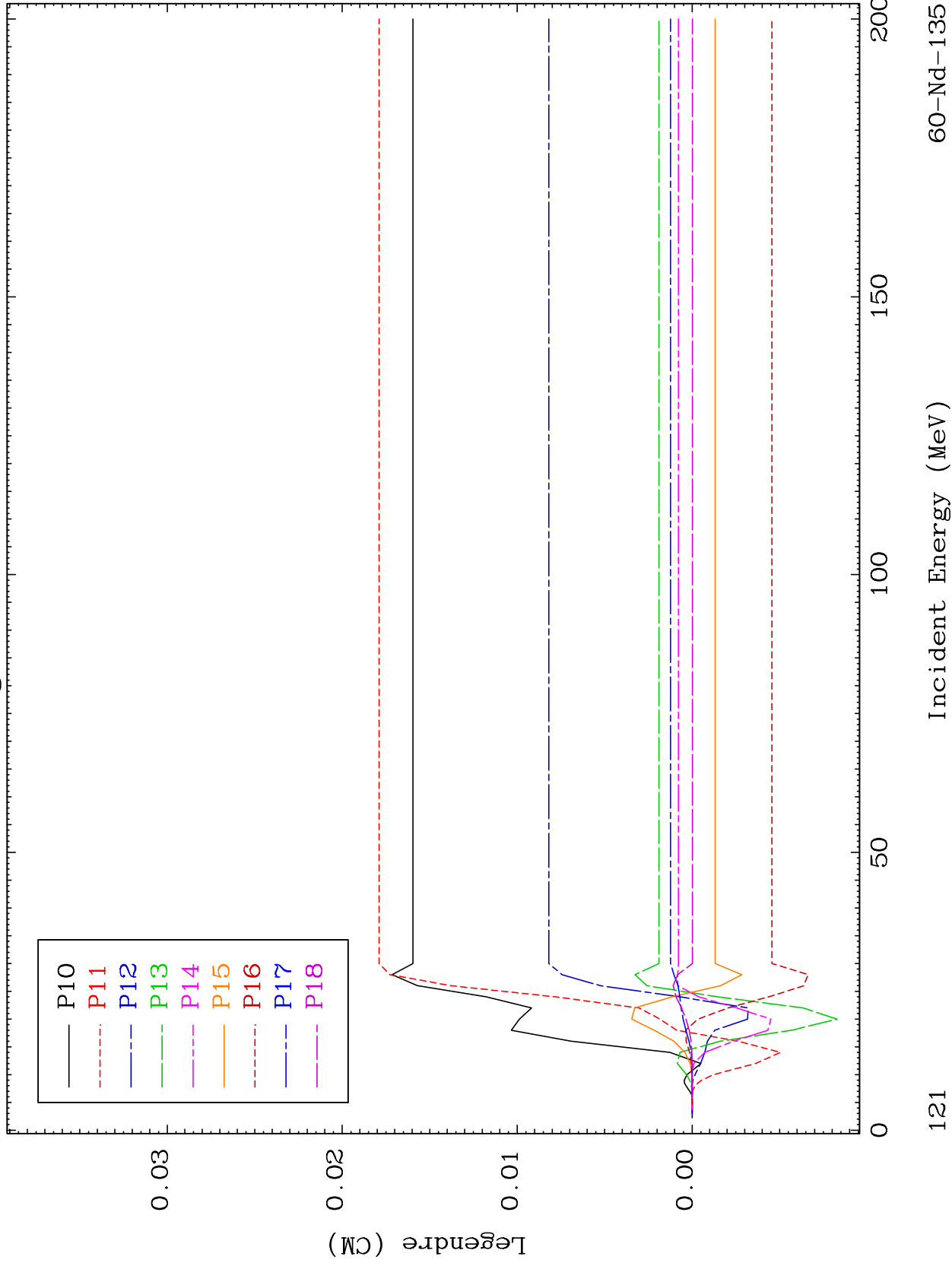
119



MAT 6004

MT= 76 (n,n') Level
Legendre Coefficients

60-Nd-135



121

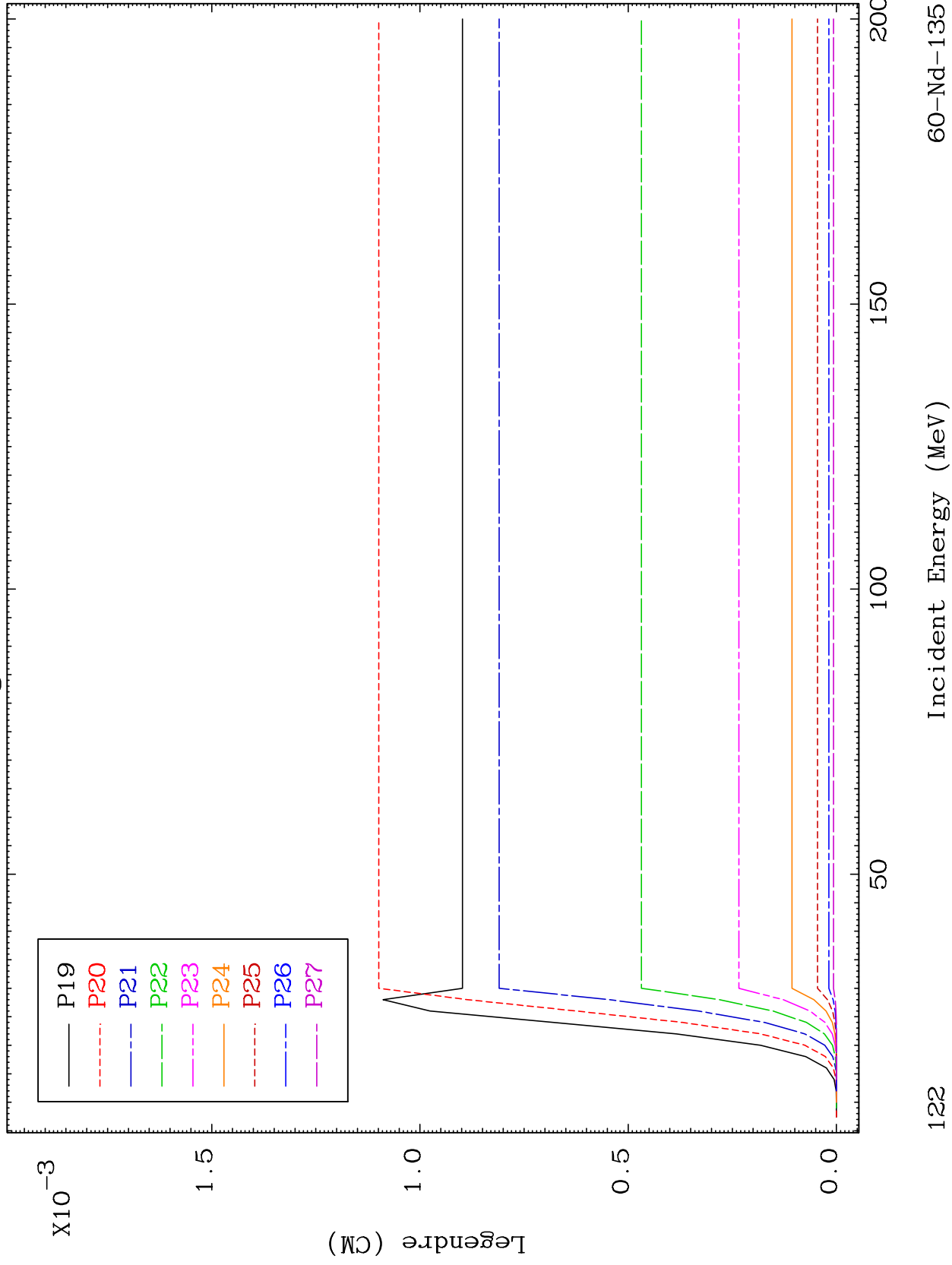
Incident Energy (MeV)

60-Nd-135

MAT 6004

MT= 76 (n,n') Level
Legendre Coefficients

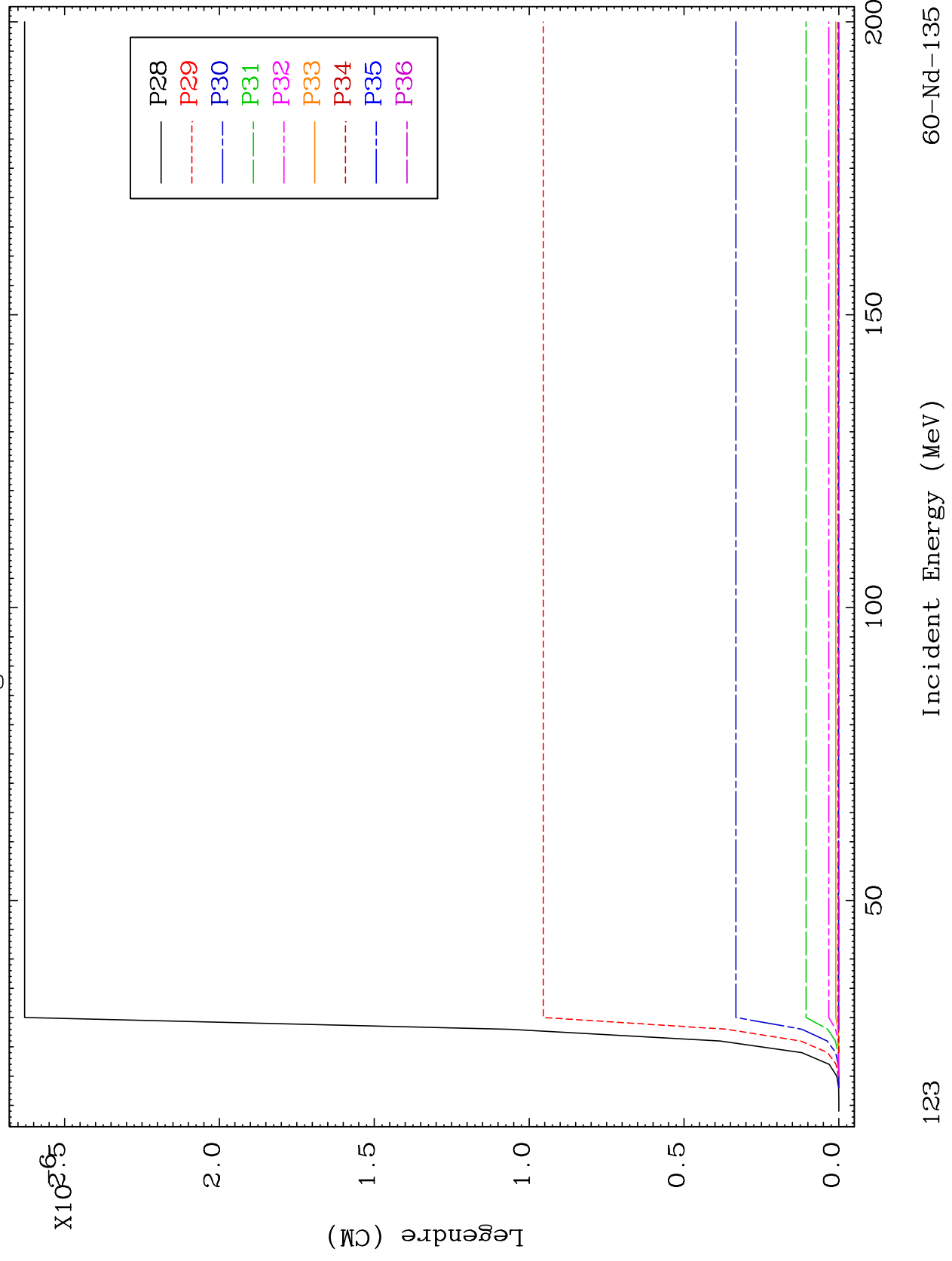
60-Nd-135



MAT 6004

MT= 76 (n,n') Level
Legendre Coefficients

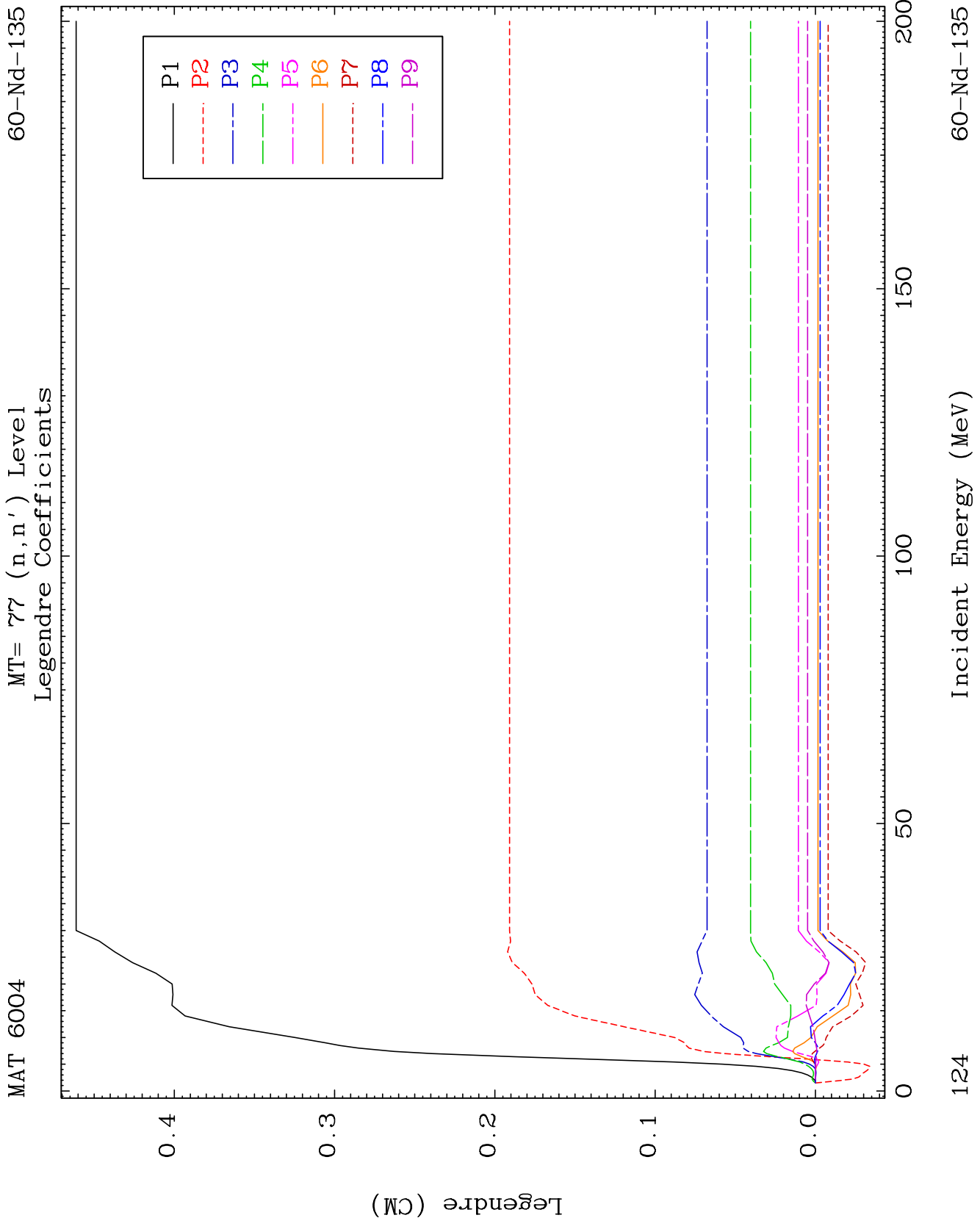
60-Nd-135



60-Nd-135

Incident Energy (MeV)

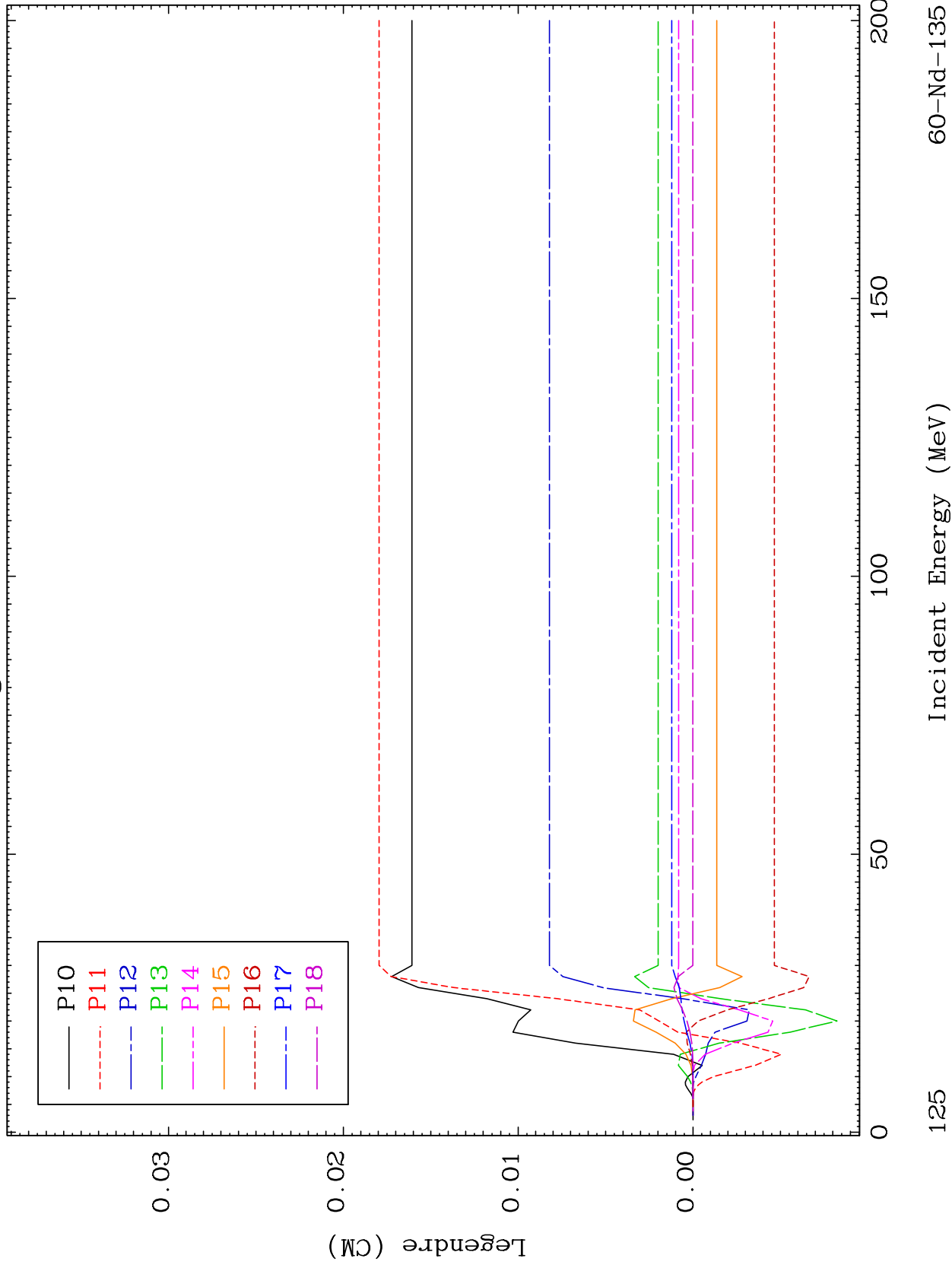
123



MAT 6004

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

60-Nd-135



60-Nd-135

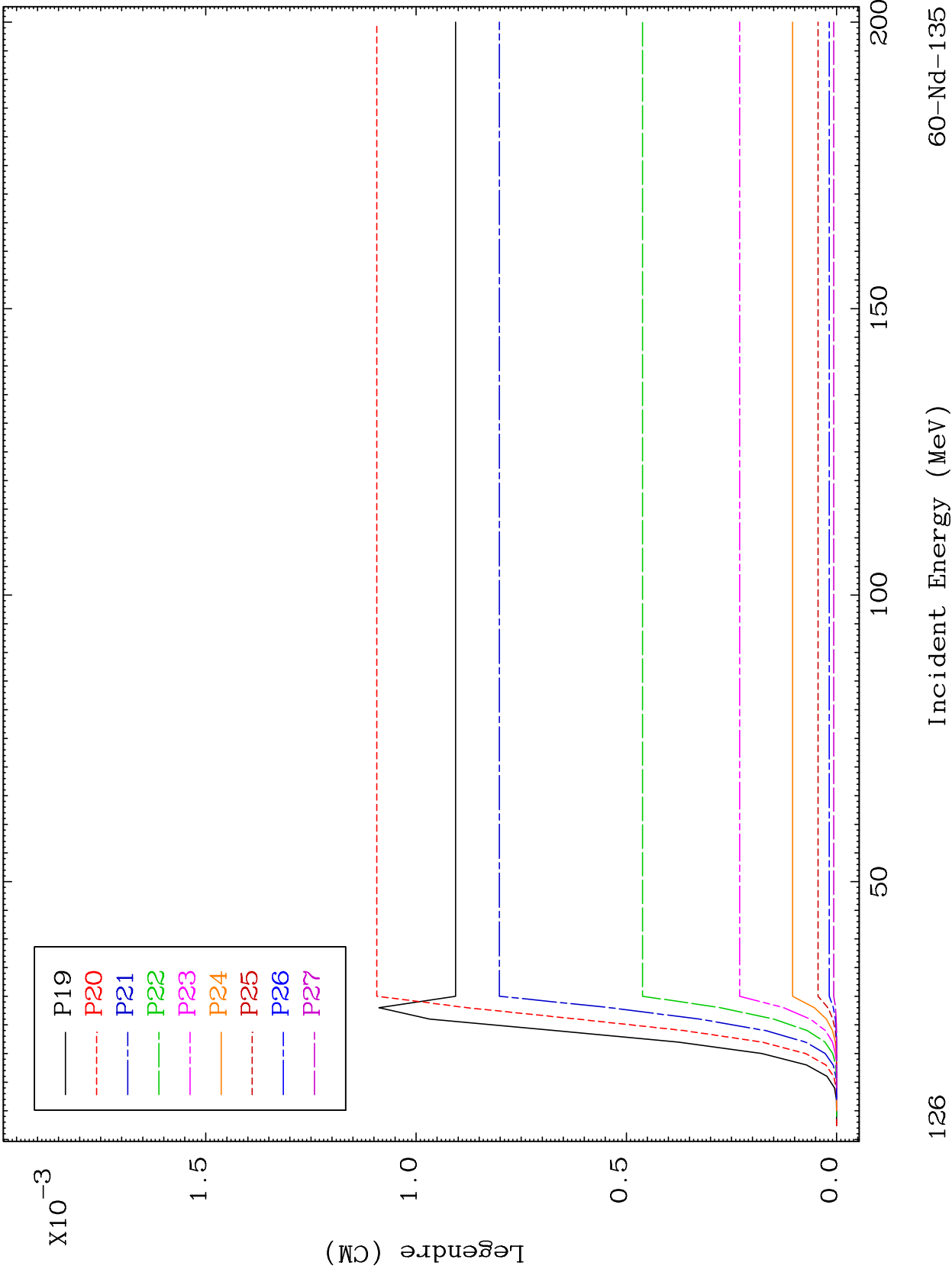
Incident Energy (MeV)

125

MAT 6004

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

60-Nd-135



126

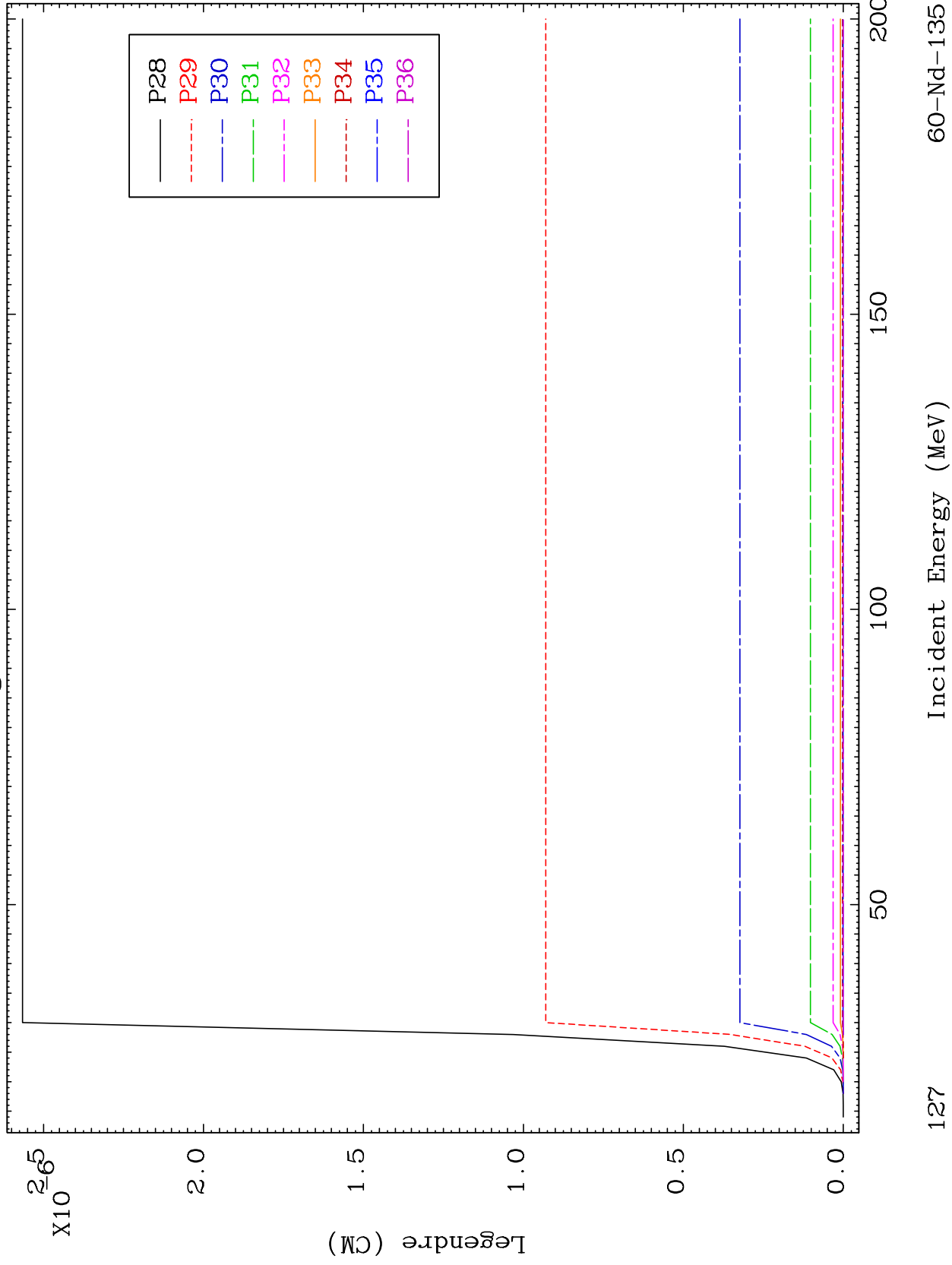
Incident Energy (MeV)

60-Nd-135

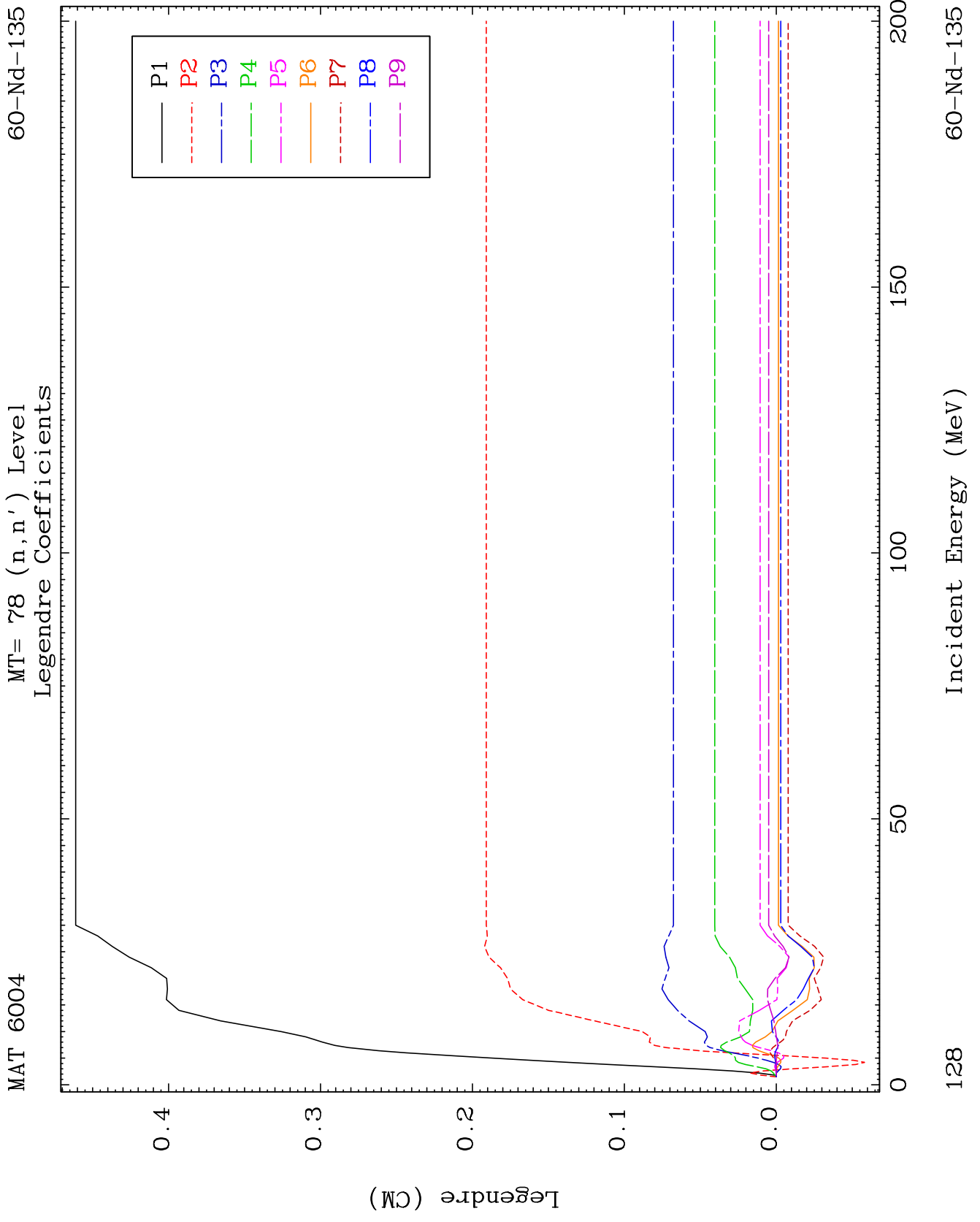
MAT 6004

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

60-Nd-135



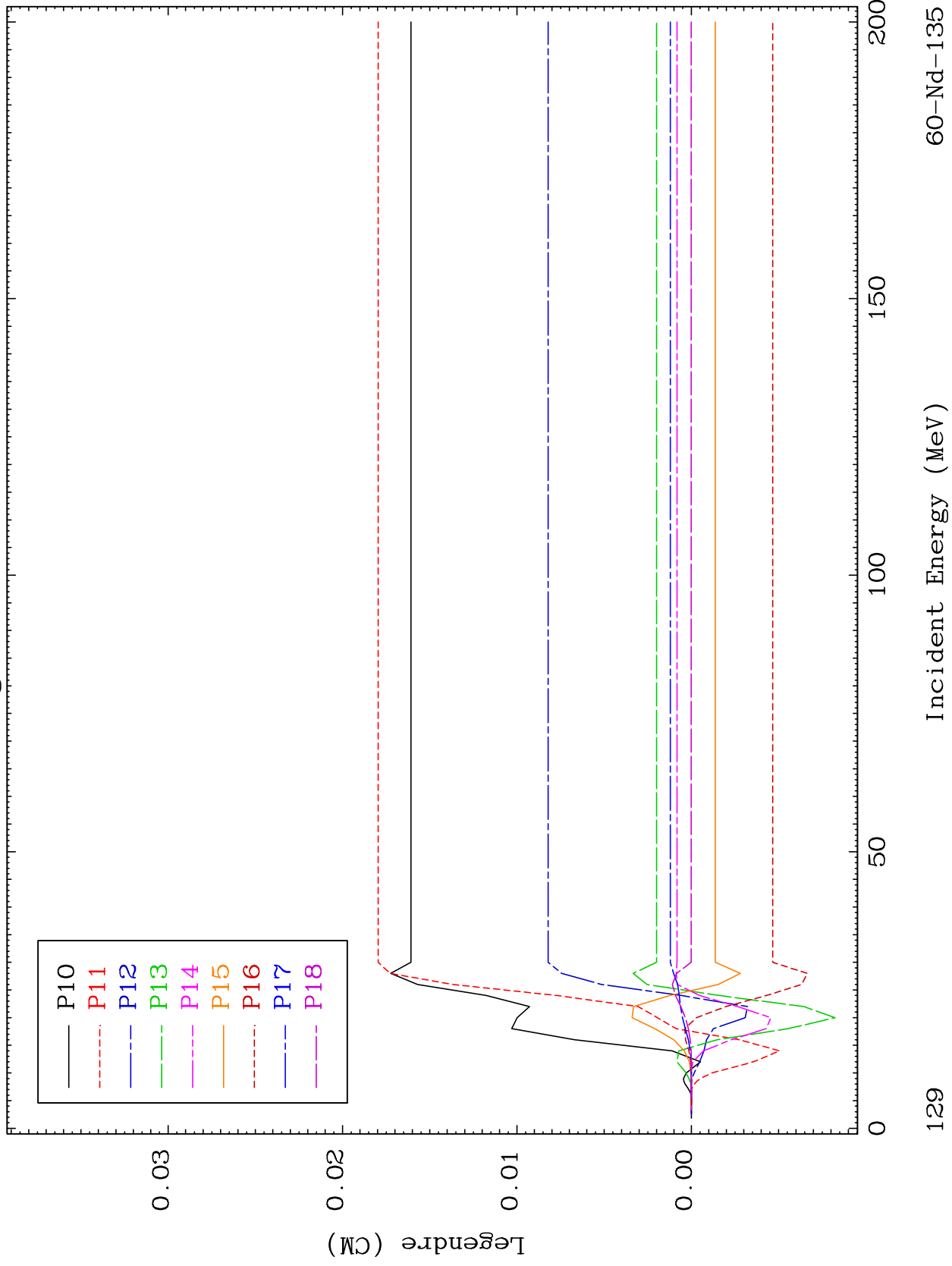
127



MAT 6004

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

60-Nd-135



129

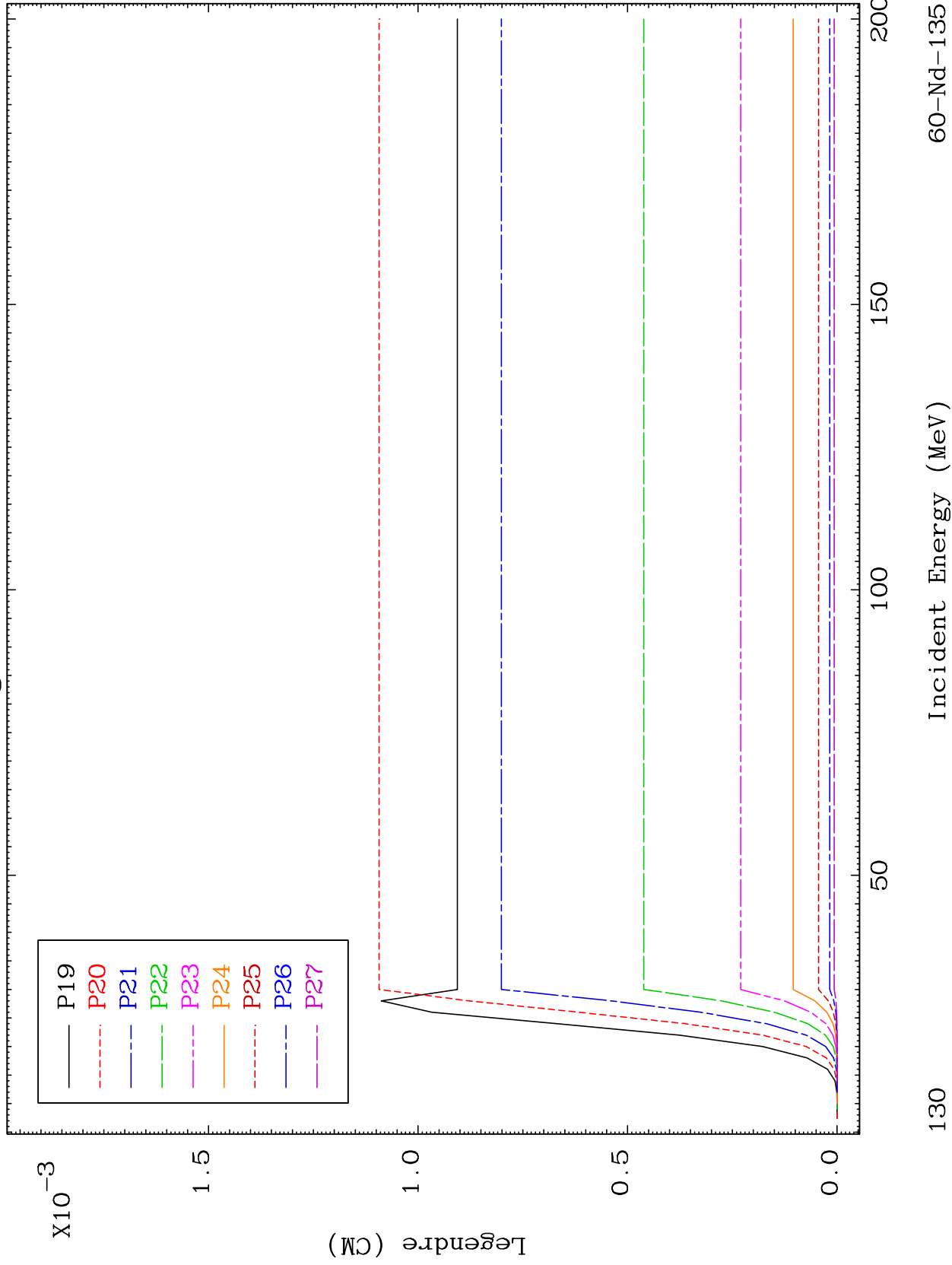
Incident Energy (MeV)

60-Nd-135

MAT 6004

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

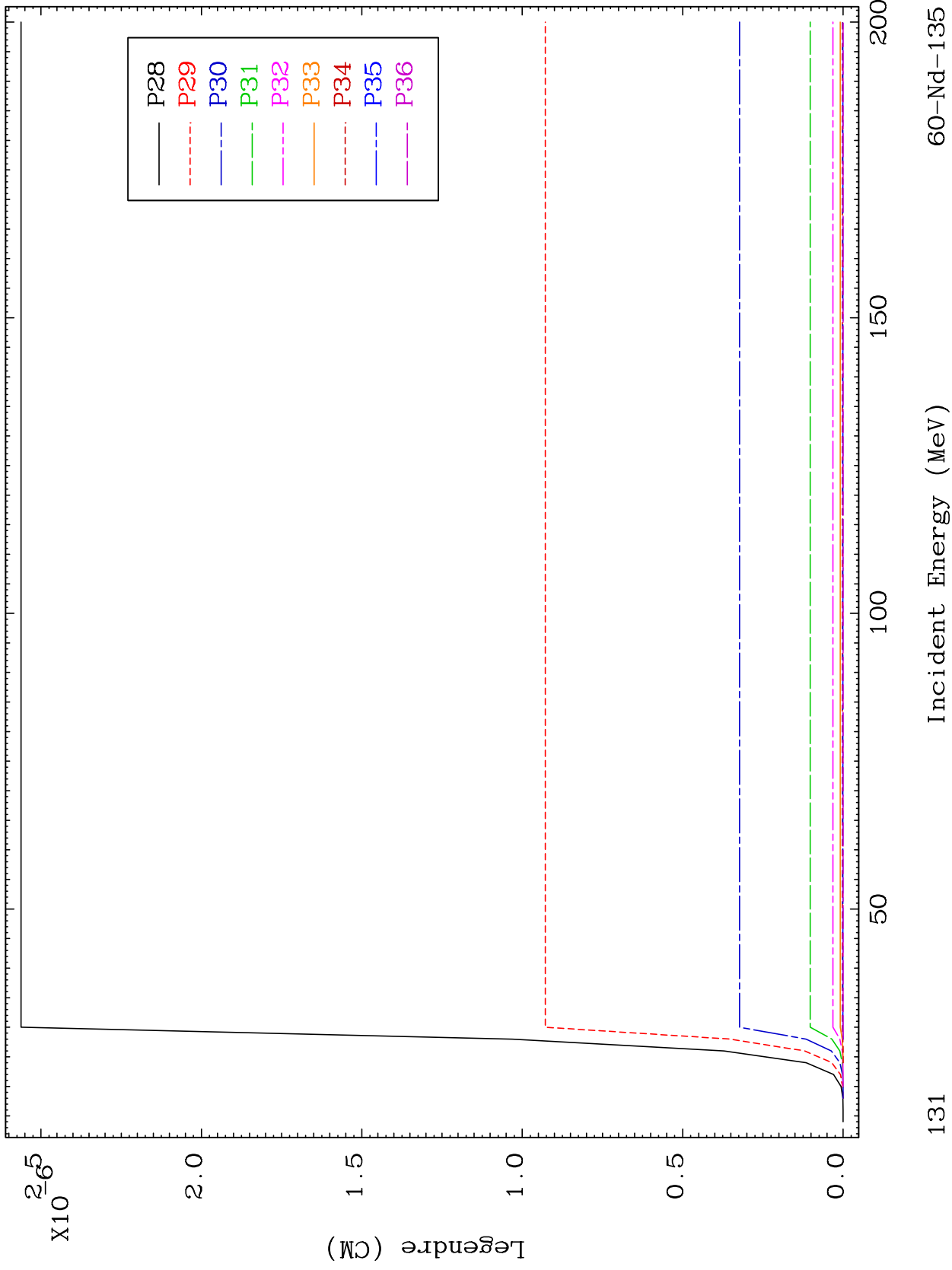
60-Nd-135



MAT 6004

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

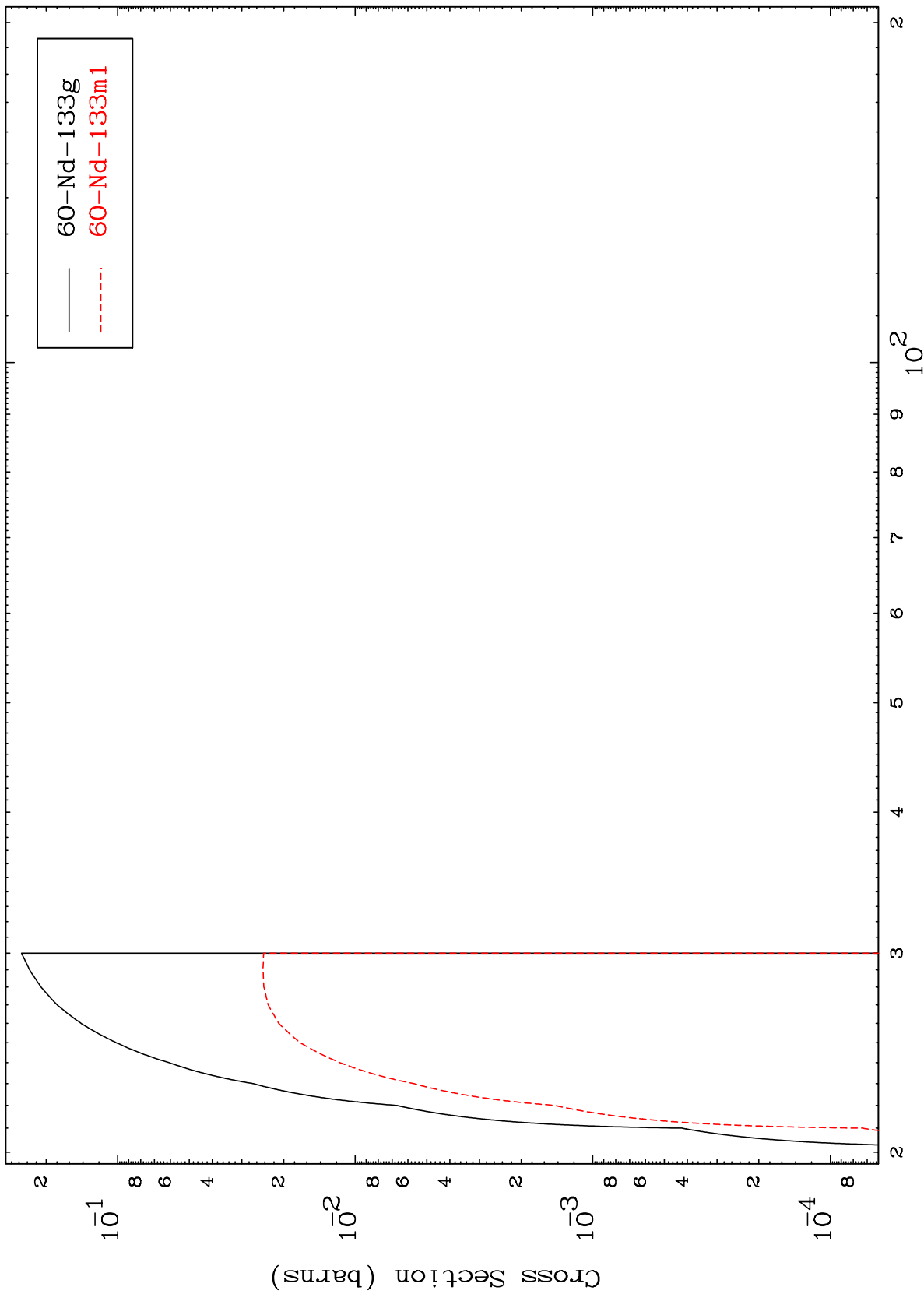
60-Nd-135



MAT 6004

60-Nd-135

(n,3n)
Radionuclide Production Cross Section



132

Incident Energy (MeV)

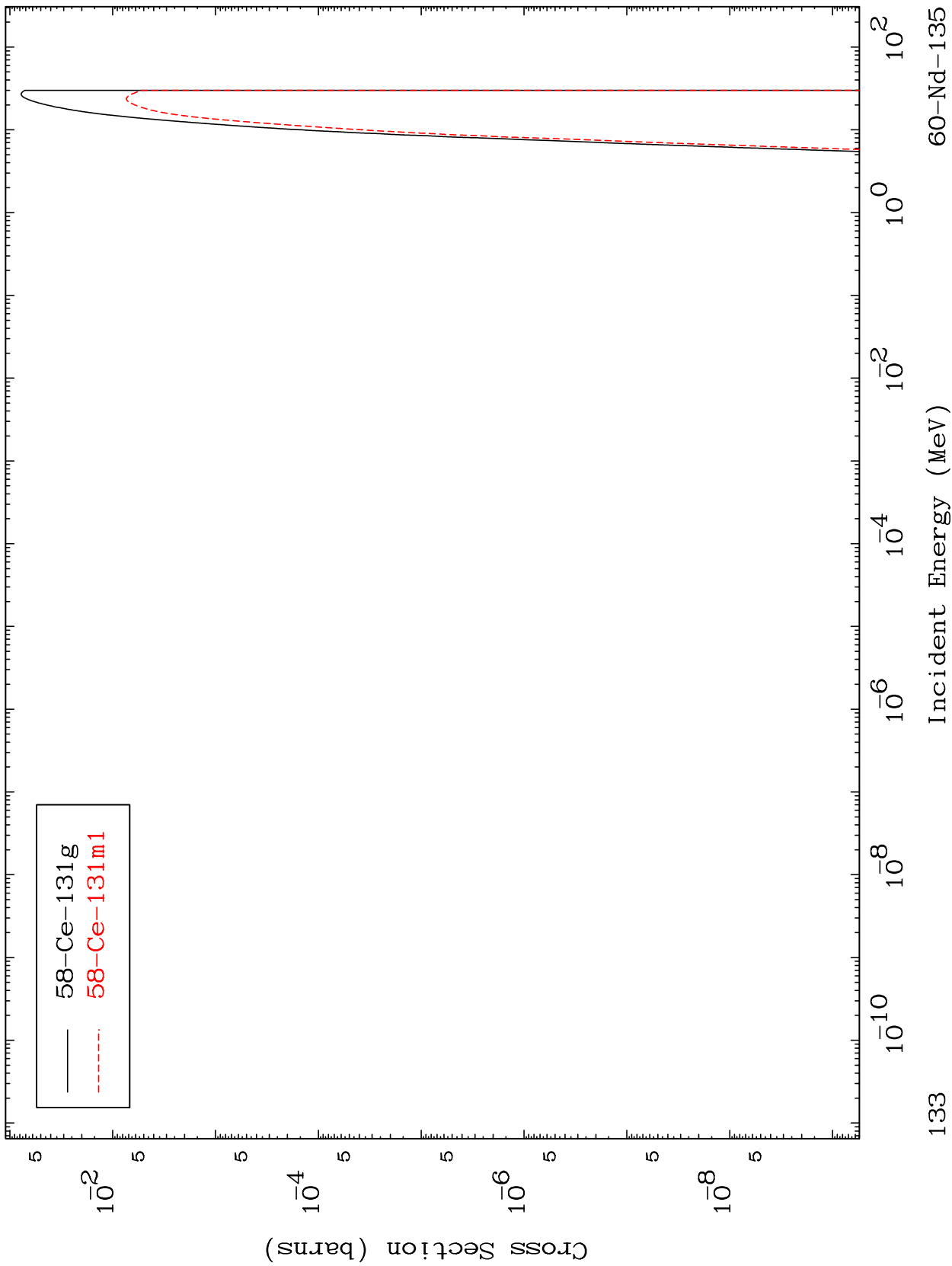
60-Nd-135

MAT 6004

$(n, n') \alpha$

60-Nd-135

Radionuclide Production Cross Section



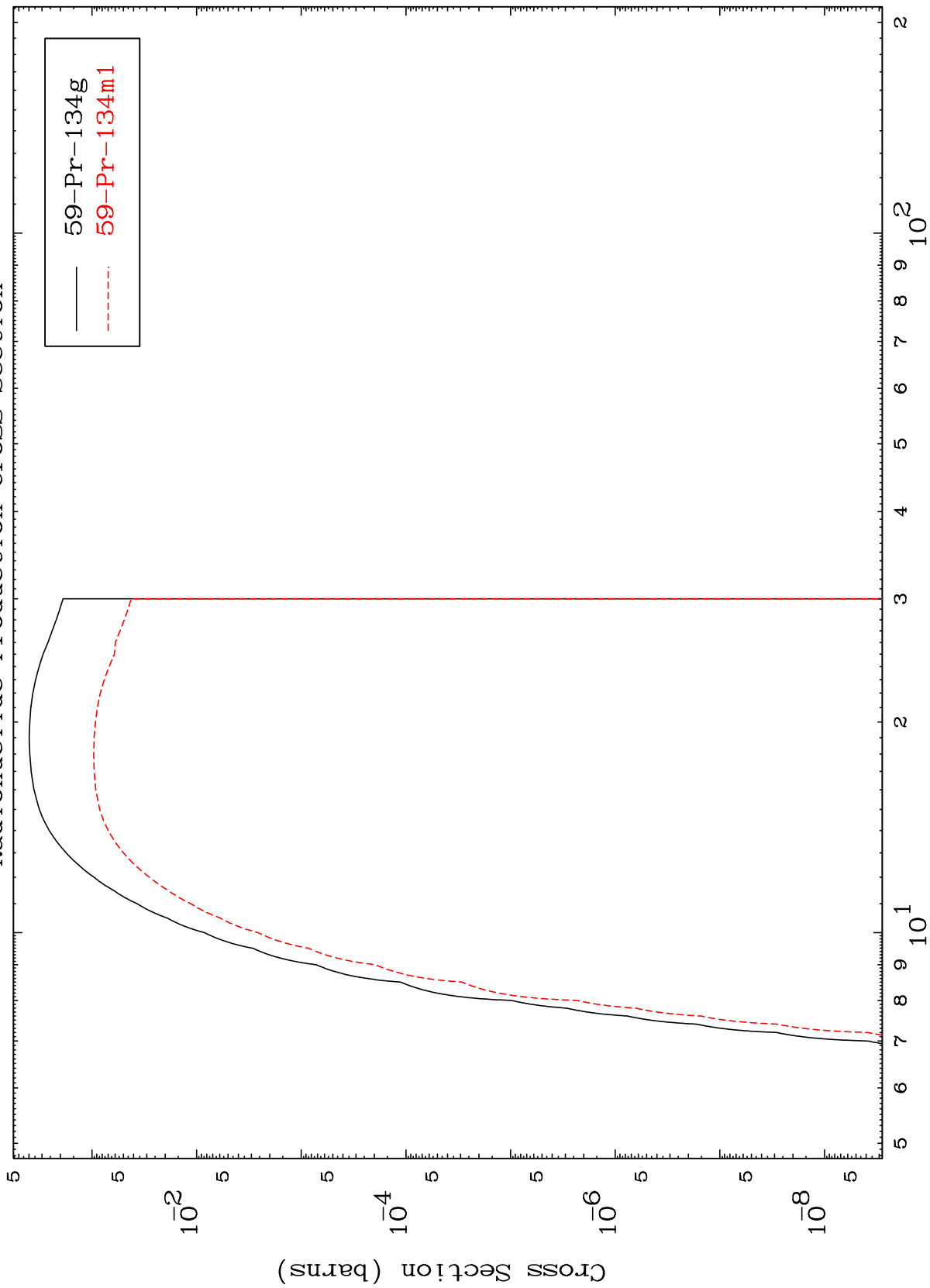
— 58-Ce-131g
- - - 58-Ce-131m1

MAT 6004

(n,n') p

60-Nd-135

Radionuclide Production Cross Section



134

Incident Energy (MeV)

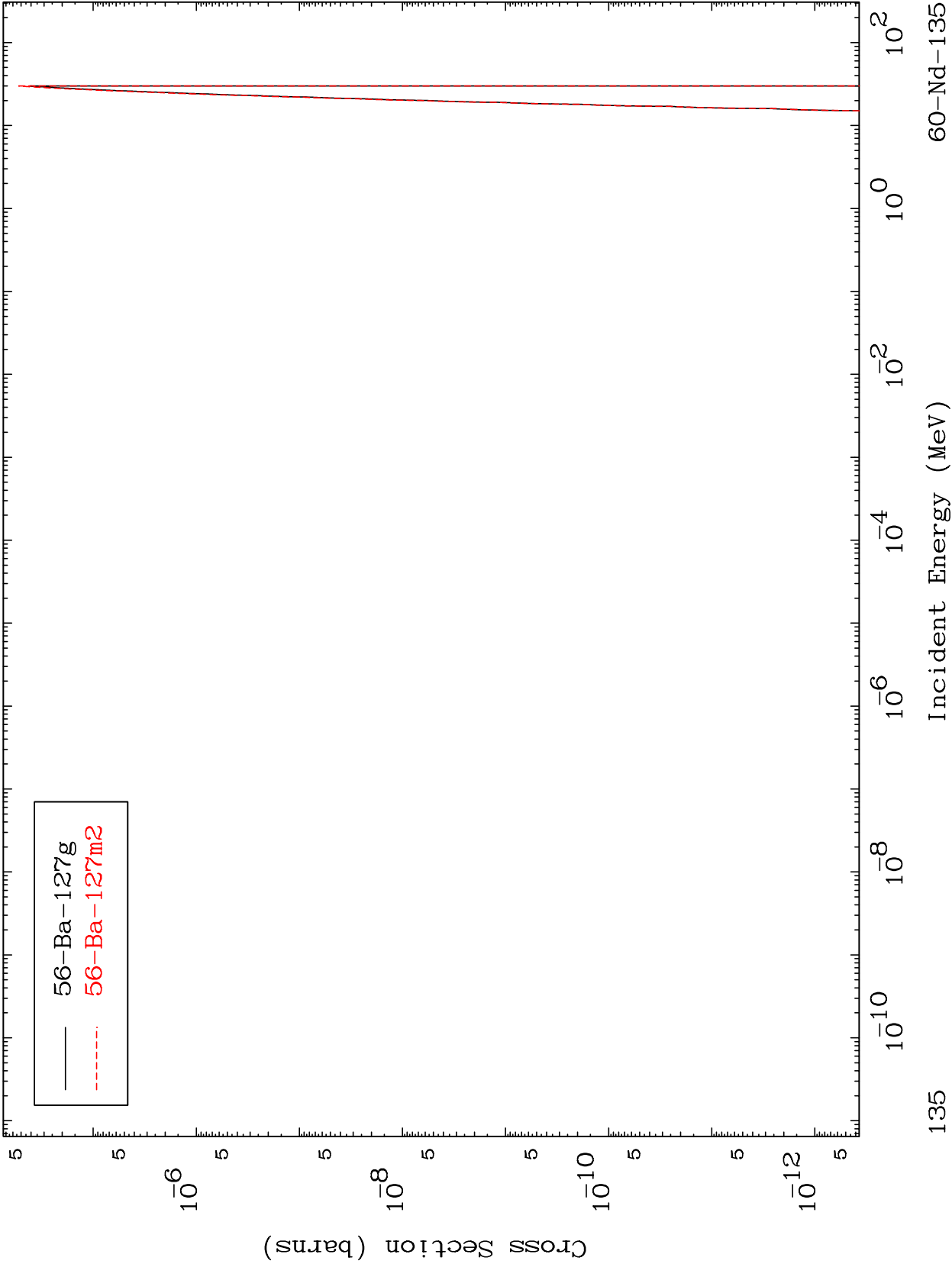
60-Nd-135

MAT 6004

(n,n') 2α

60-Nd-135

Radionuclide Production Cross Section



135

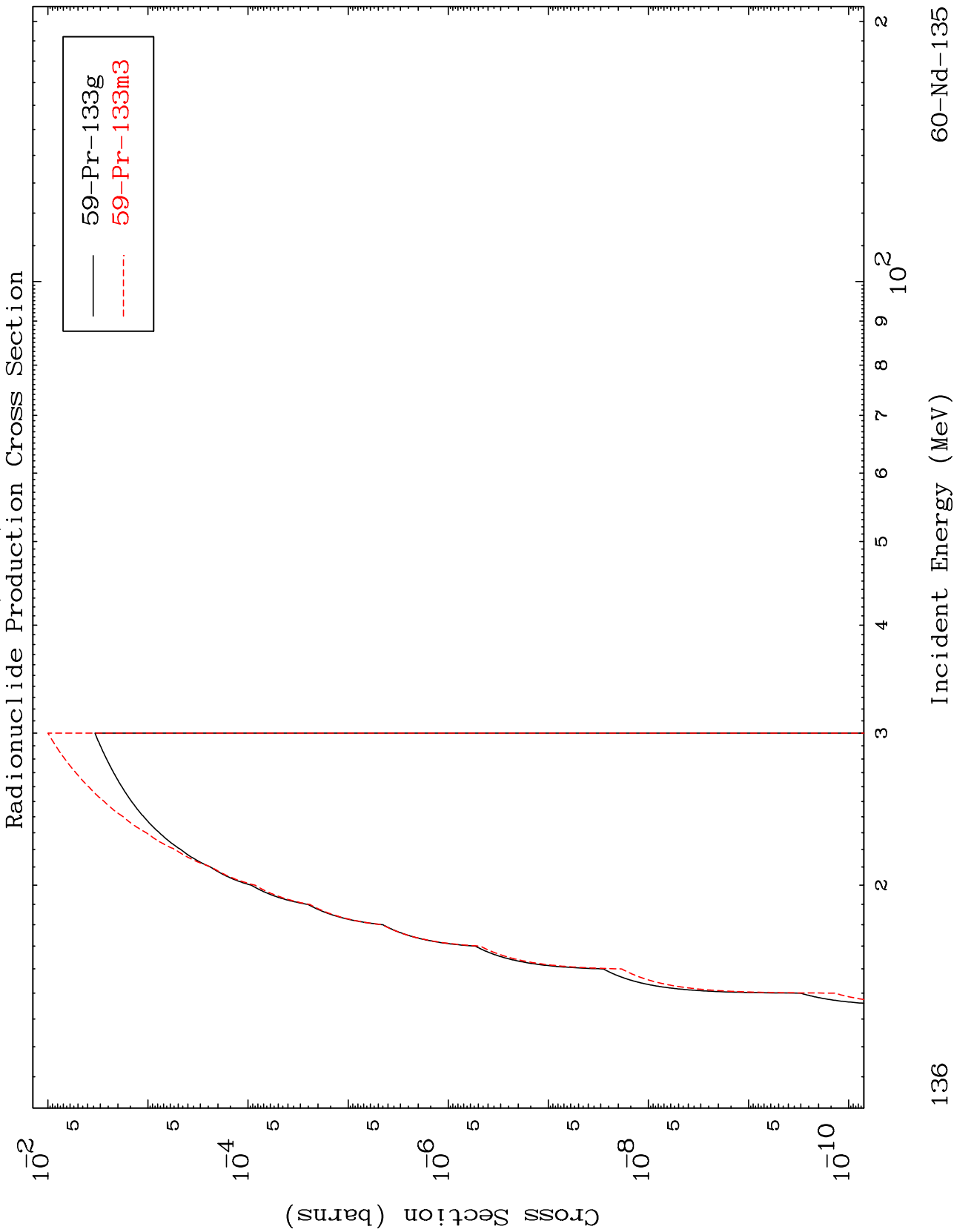
Incident Energy (MeV)

60-Nd-135

MAT 6004

(n,n') d

60-Nd-135



136

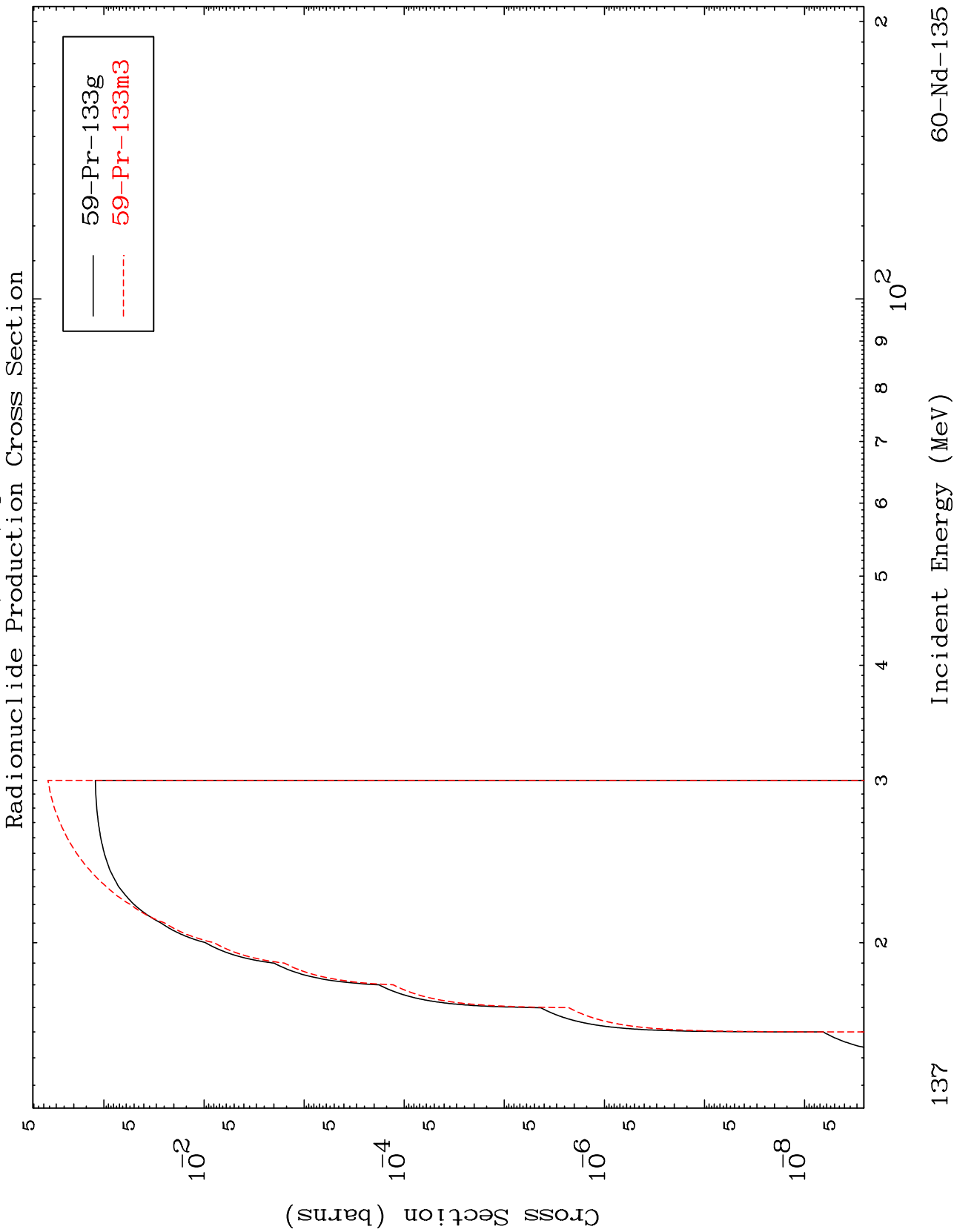
Incident Energy (MeV)

60-Nd-135

MAT 6004

(n,2n) p

60-Nd-135



137

Incident Energy (MeV)

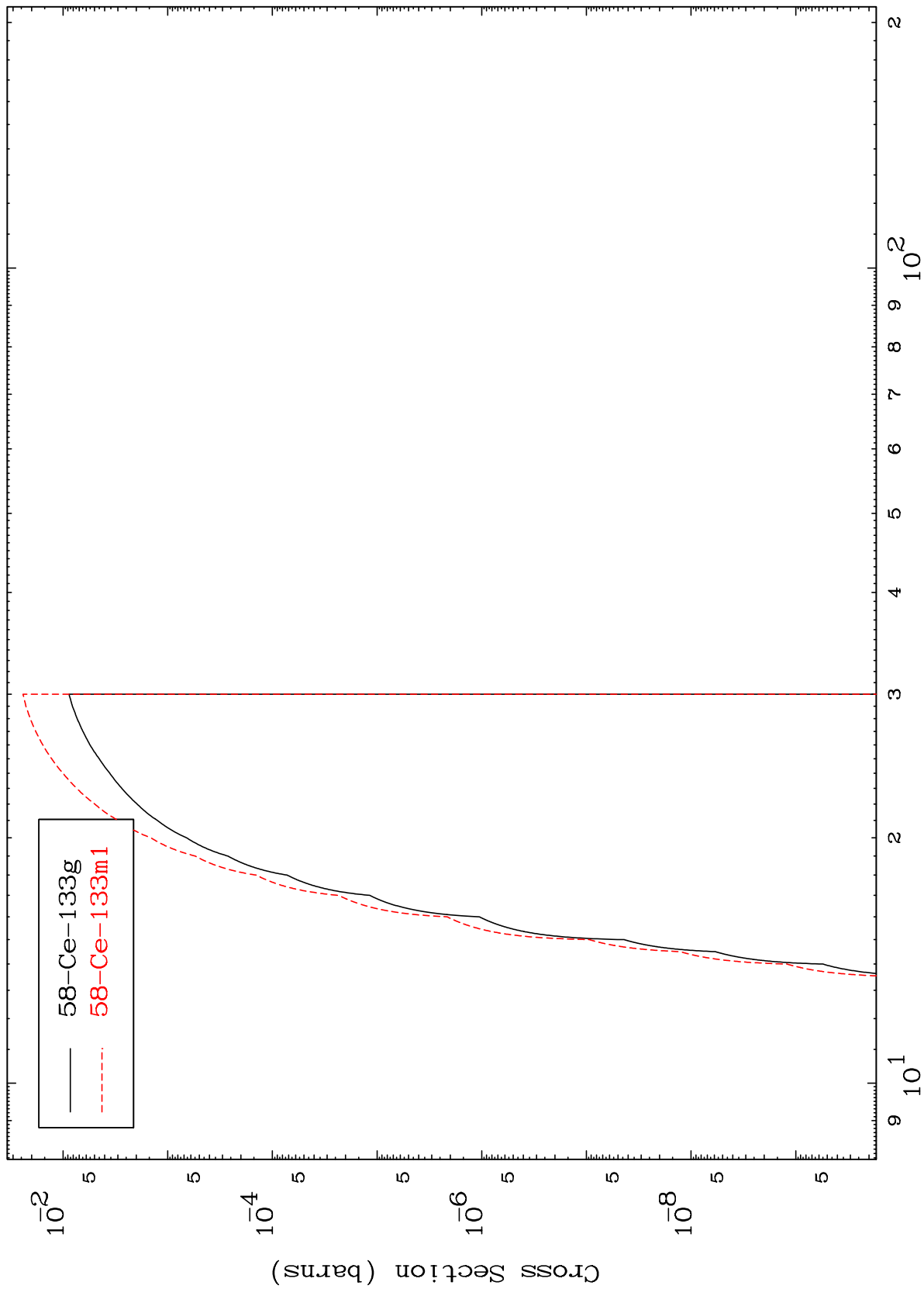
60-Nd-135

MAT 6004

(n,2n) p

60-Nd-135

Radionuclide Production Cross Section



138

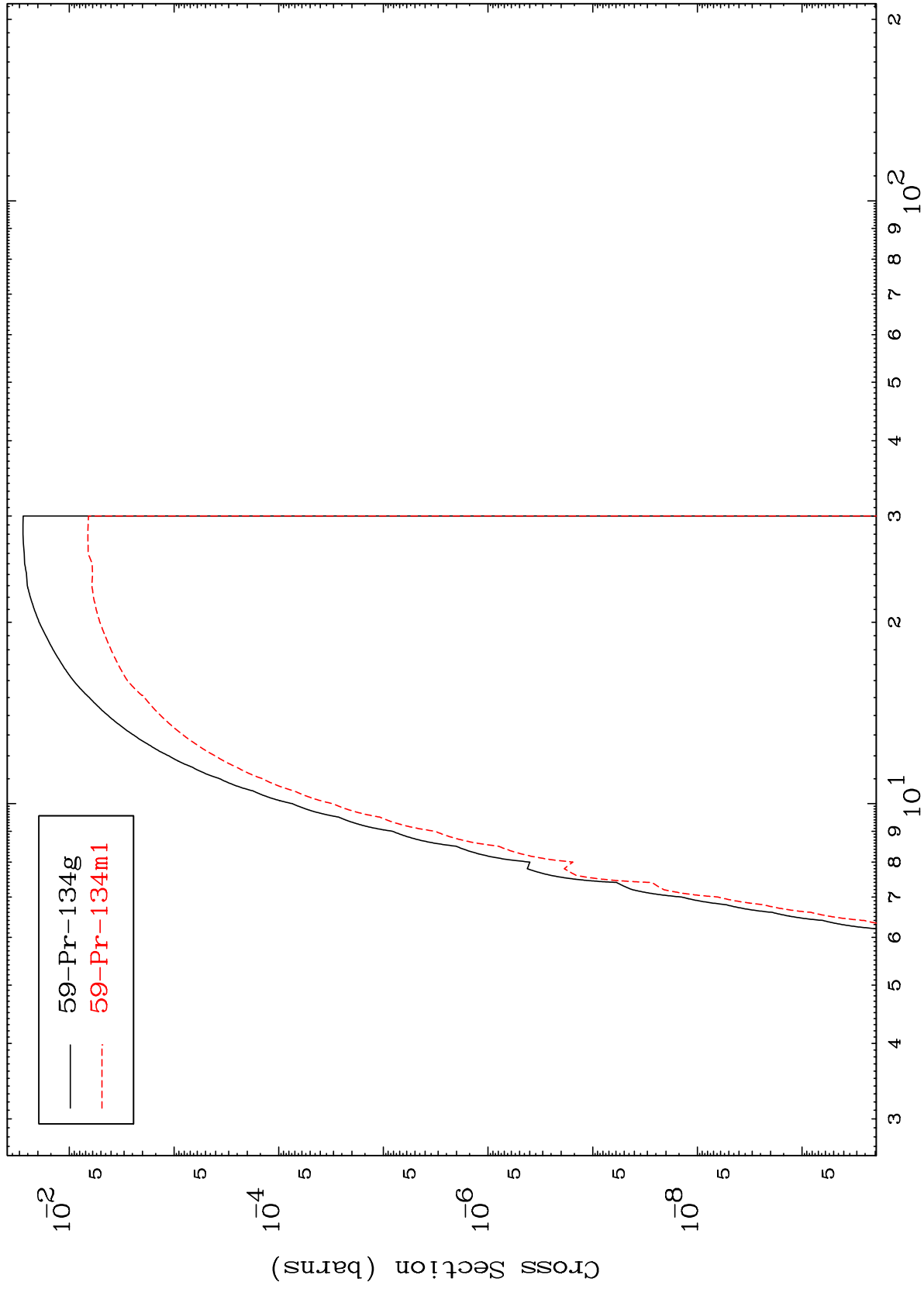
Incident Energy (MeV)

60-Nd-135

MAT 6004

60-Nd-135

(n,d)
Radionuclide Production Cross Section



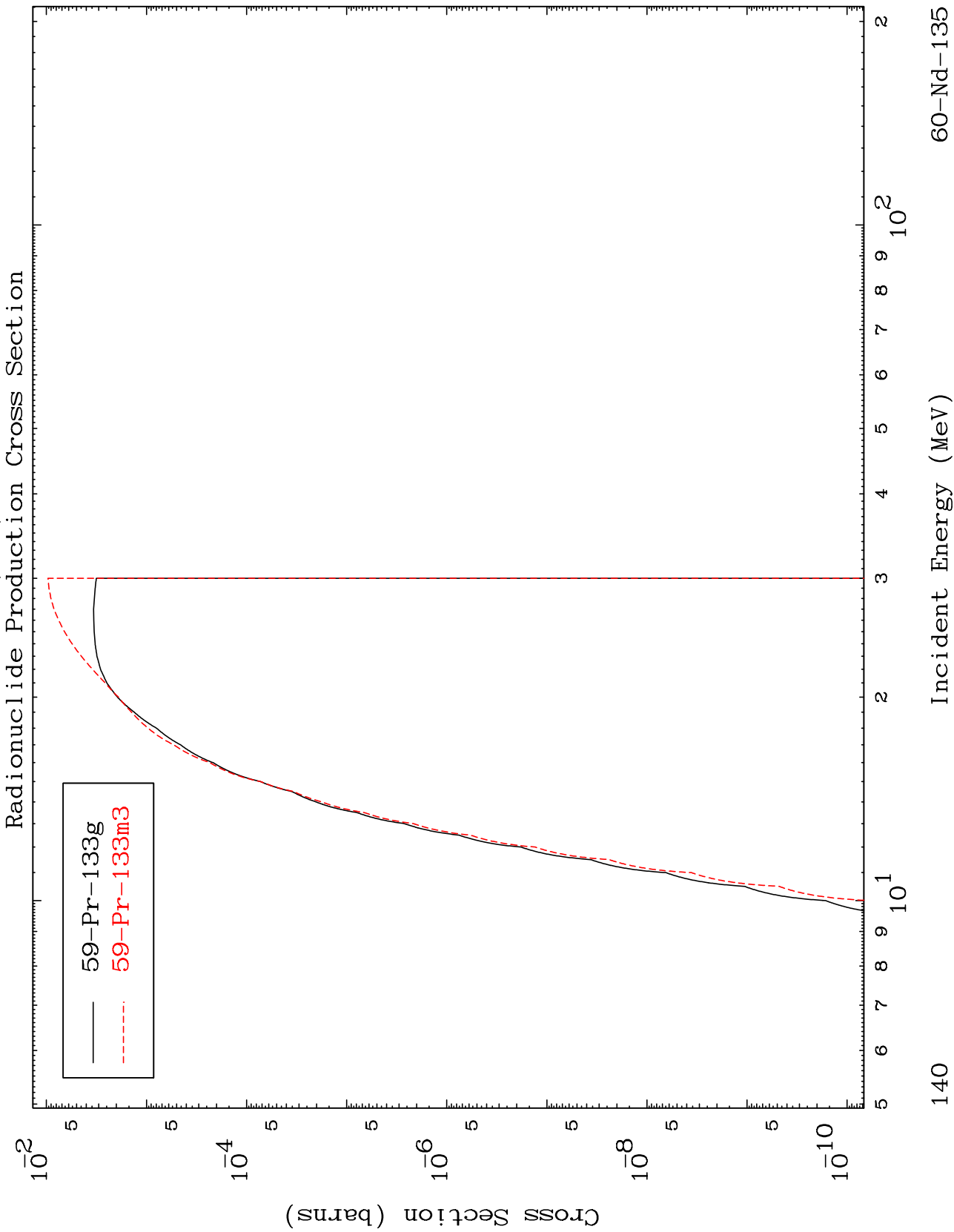
139

Incident Energy (MeV)

60-Nd-135

MAT 6004

60-Nd-135



140

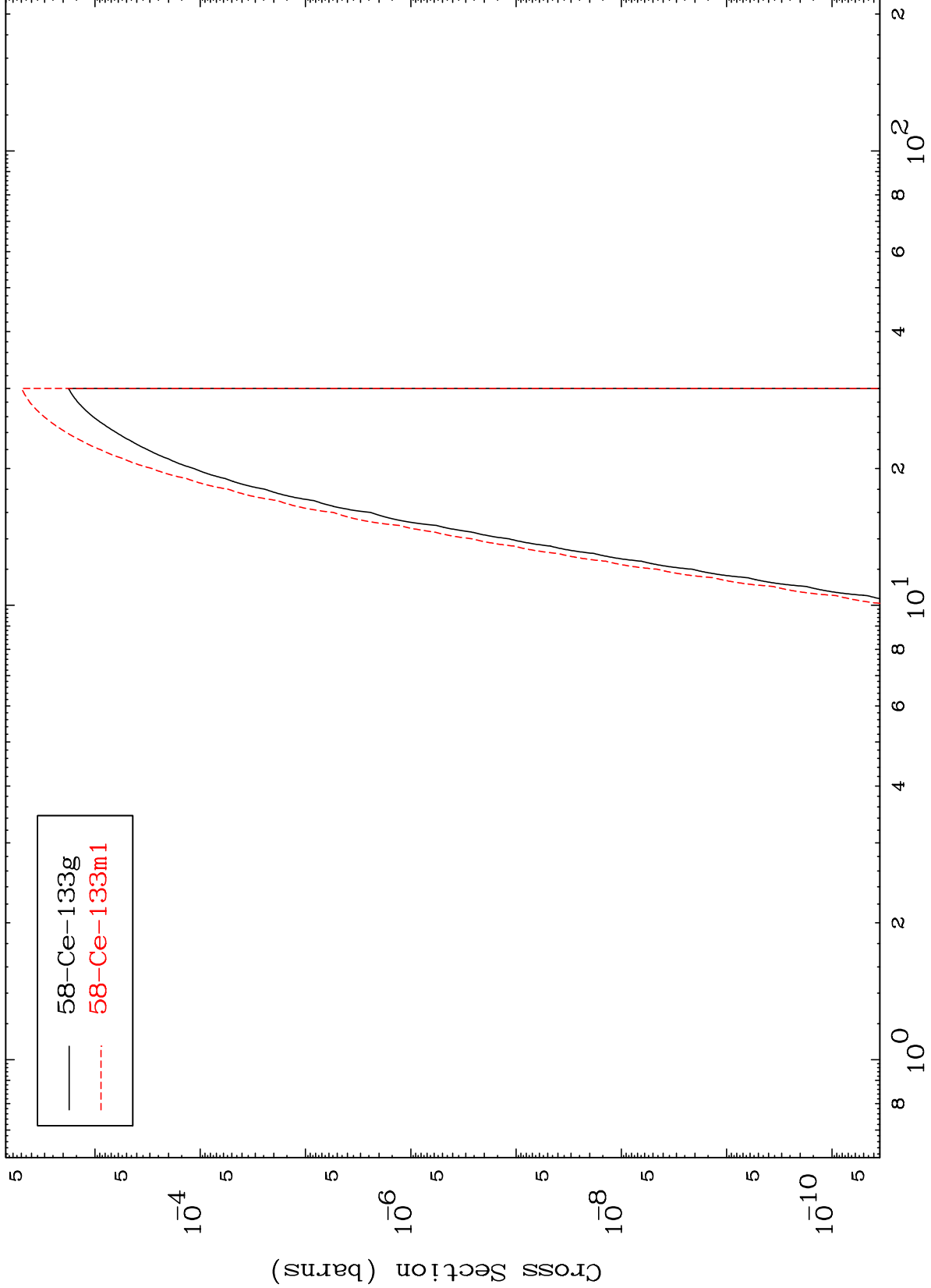
60-Nd-135

MAT 6004

(n,He-3)

60-Nd-135

Radionuclide Production Cross Section



141

Incident Energy (MeV)

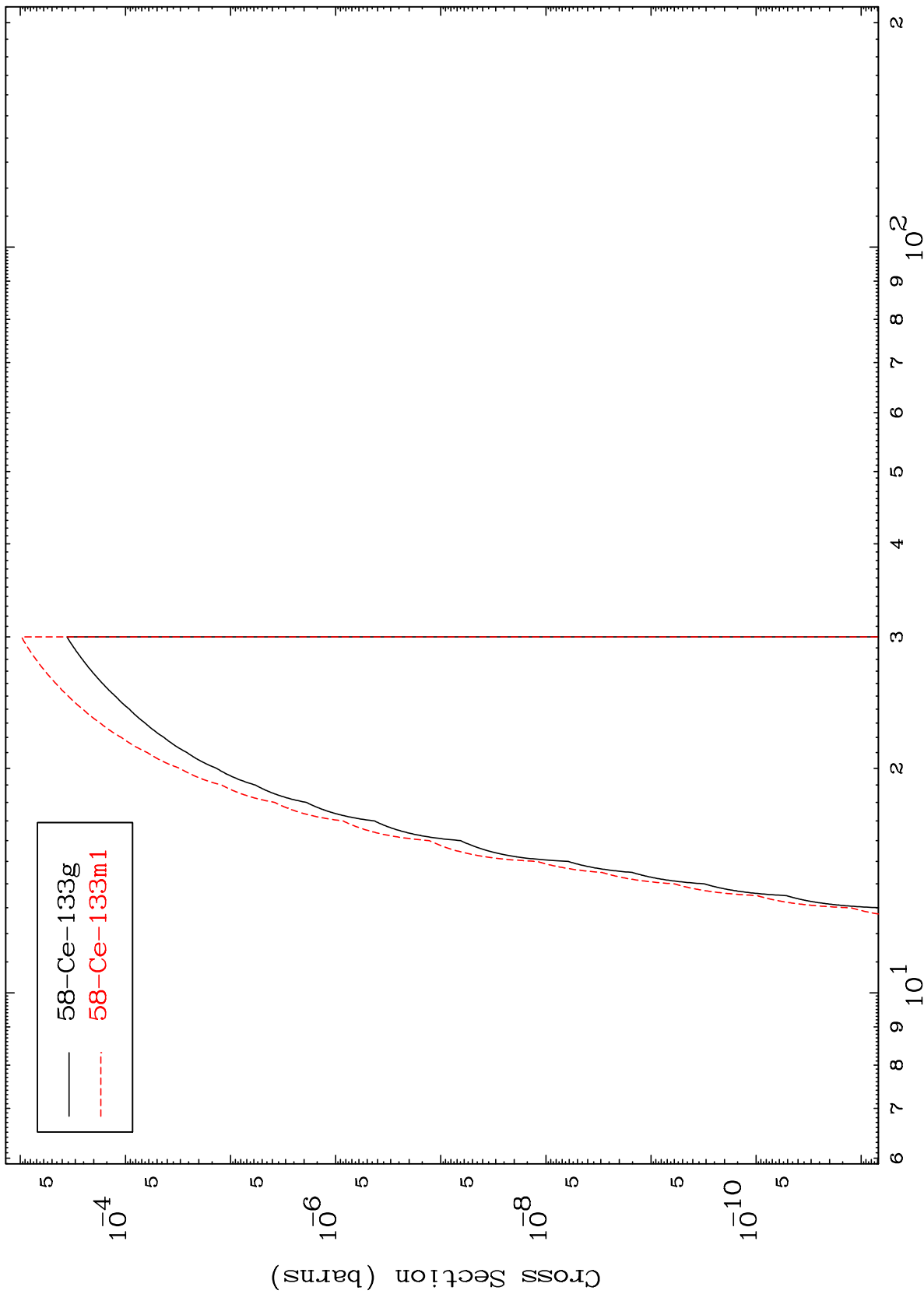
60-Nd-135

MAT 6004

(n,p) d

60-Nd-135

Radionuclide Production Cross Section



142

Incident Energy (MeV)

60-Nd-135