

Program EVALPLOT
(Version 2018-1)

by

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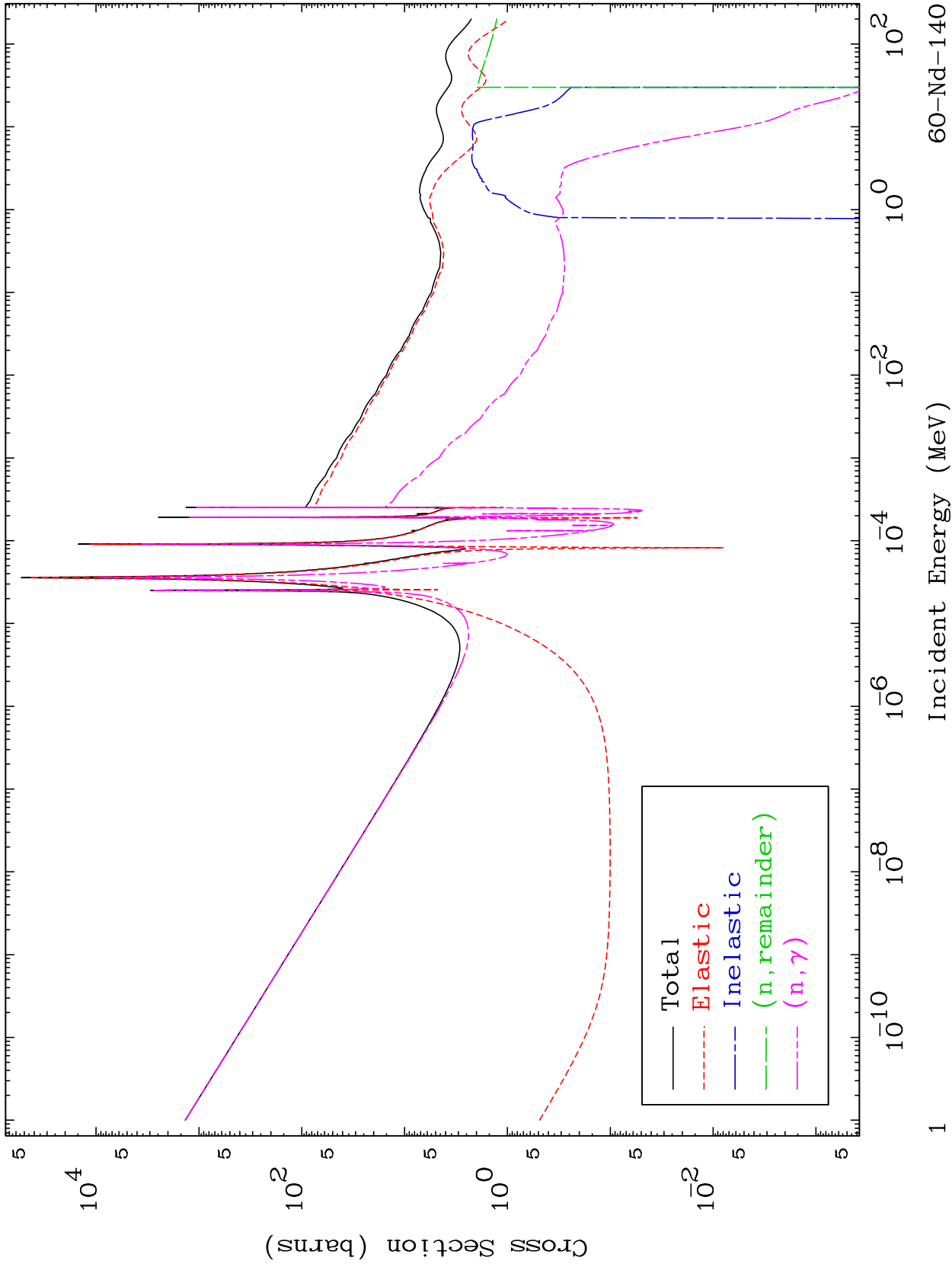
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6019

Major
293 Kelvin Cross Sections

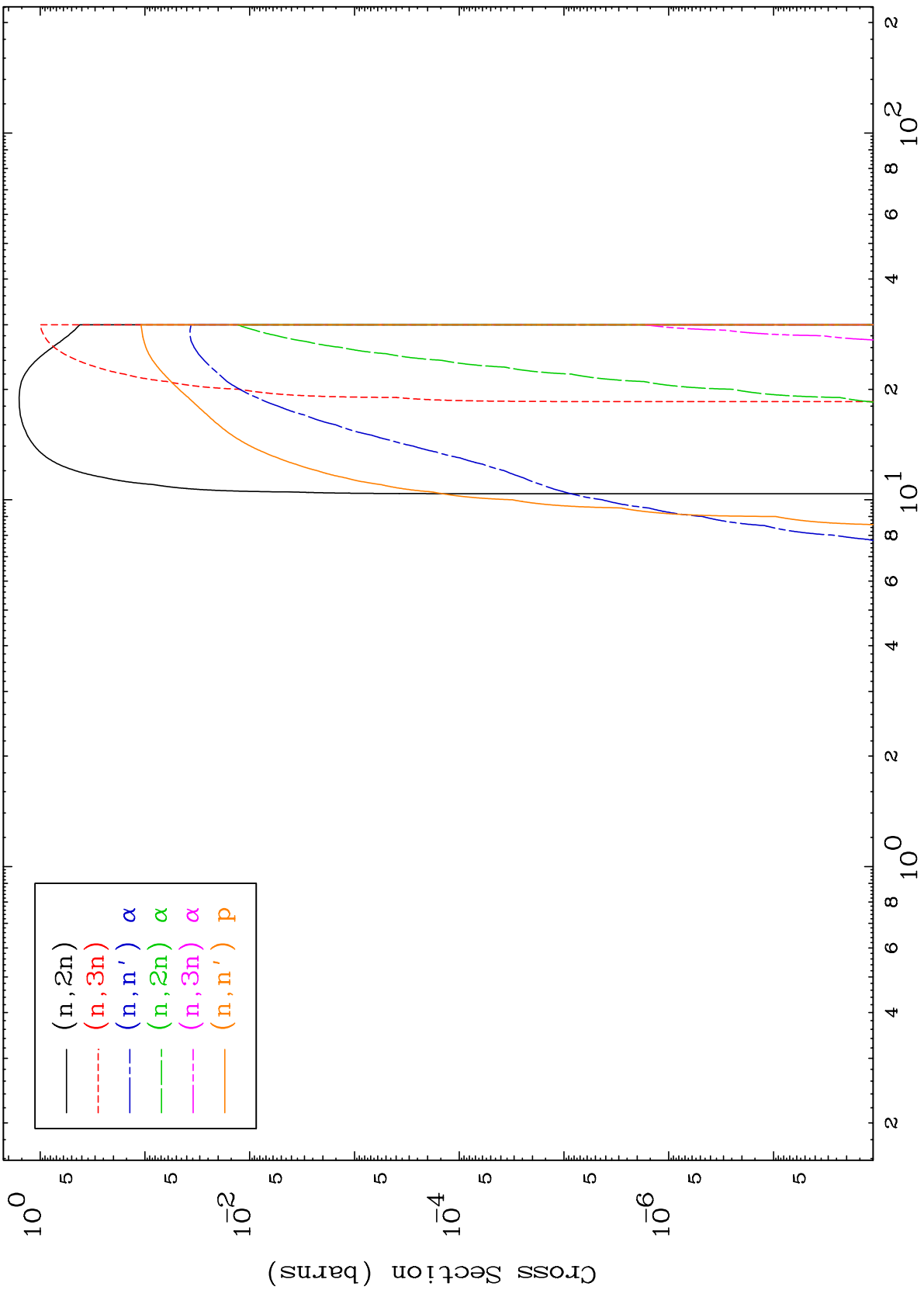
60-Nd-140



MAT 6019

Neutron Production
293 Kelvin Cross Sections

60-Nd-140



Incident Energy (MeV)

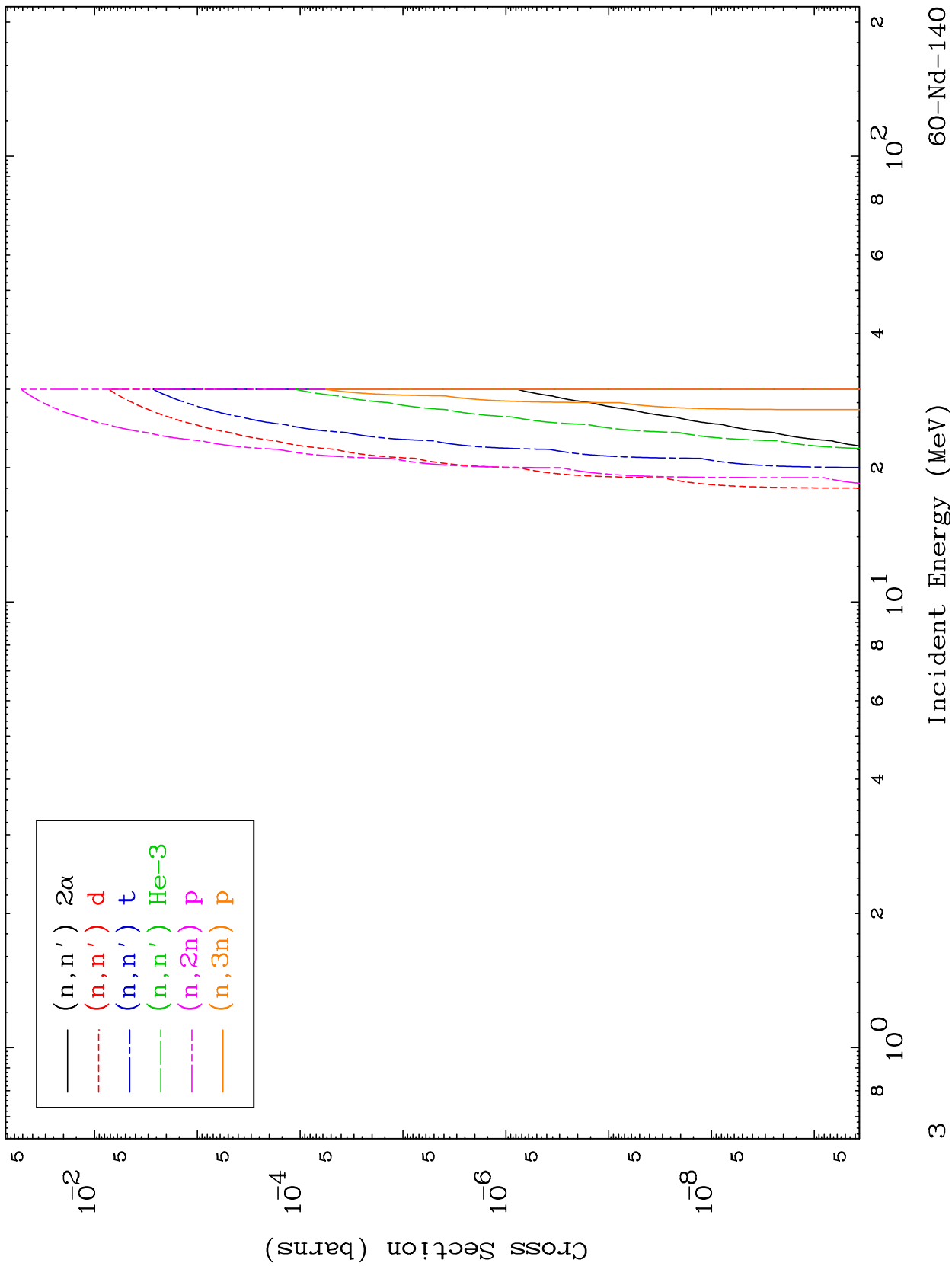
60-Nd-140

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MAT 6019

Neutron Production
293 Kelvin Cross Sections

60-Nd-140

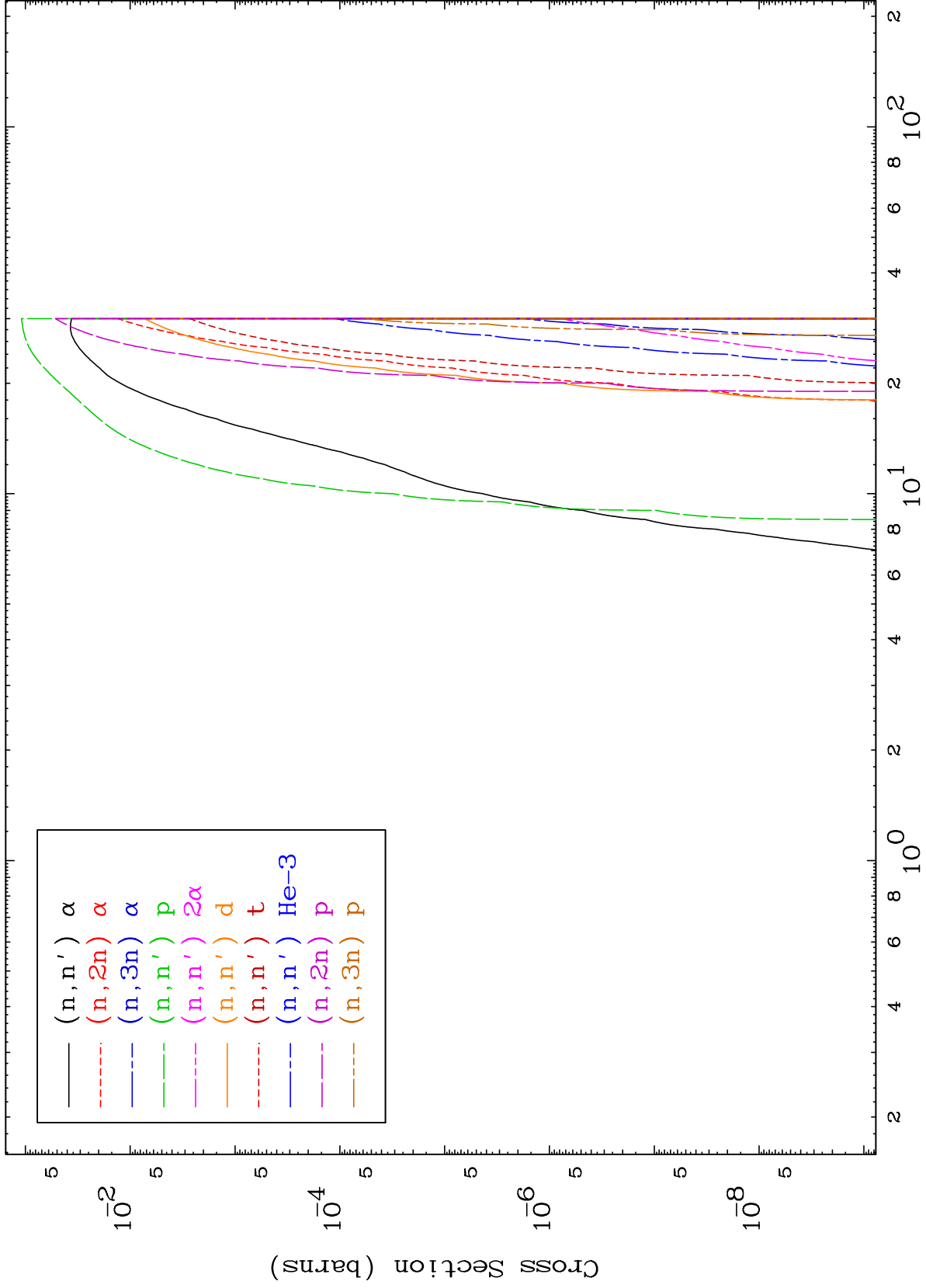


(n, n') 2 α
(n, n') d
(n, n') t
(n, n') He-3
(n, 2n) p
(n, 3n) p

MAT 6019

Charged Particle
293 Kelvin Cross Sections

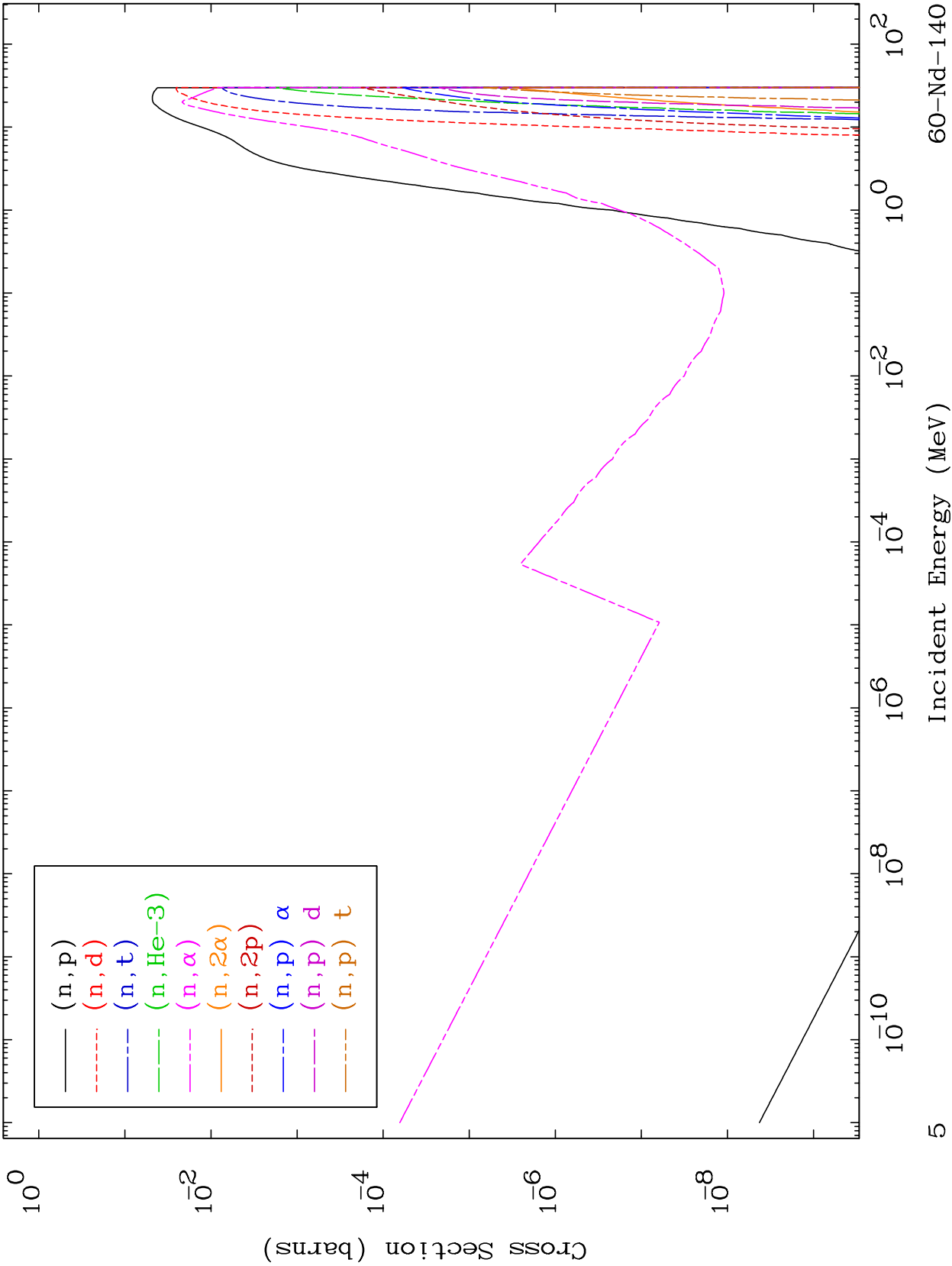
60-Nd-140



MAT 6019

Charged Particle
293 Kelvin Cross Sections

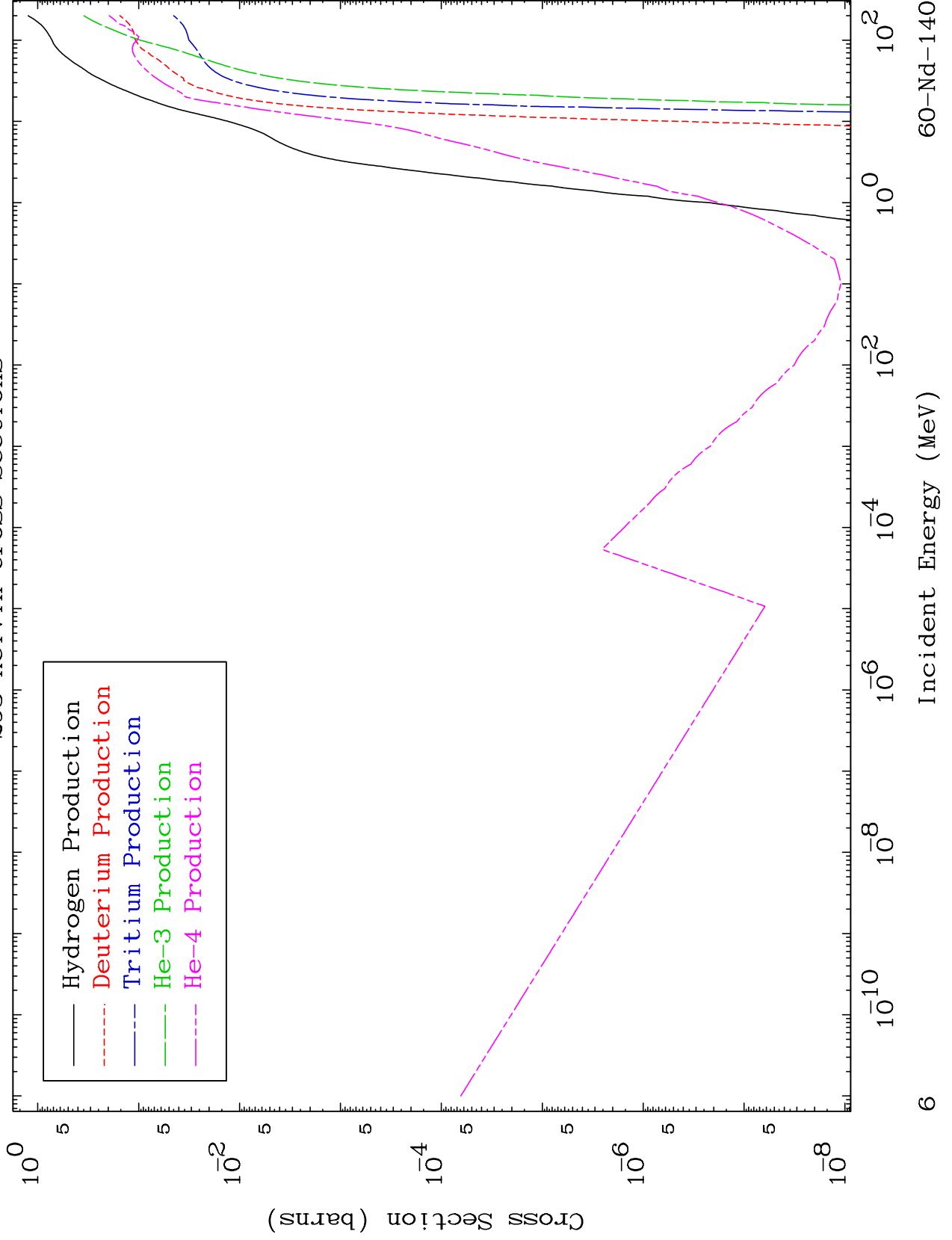
60-Nd-140



MAT 6019

Particle Production
293 Kelvin Cross Sections

60-Nd-140

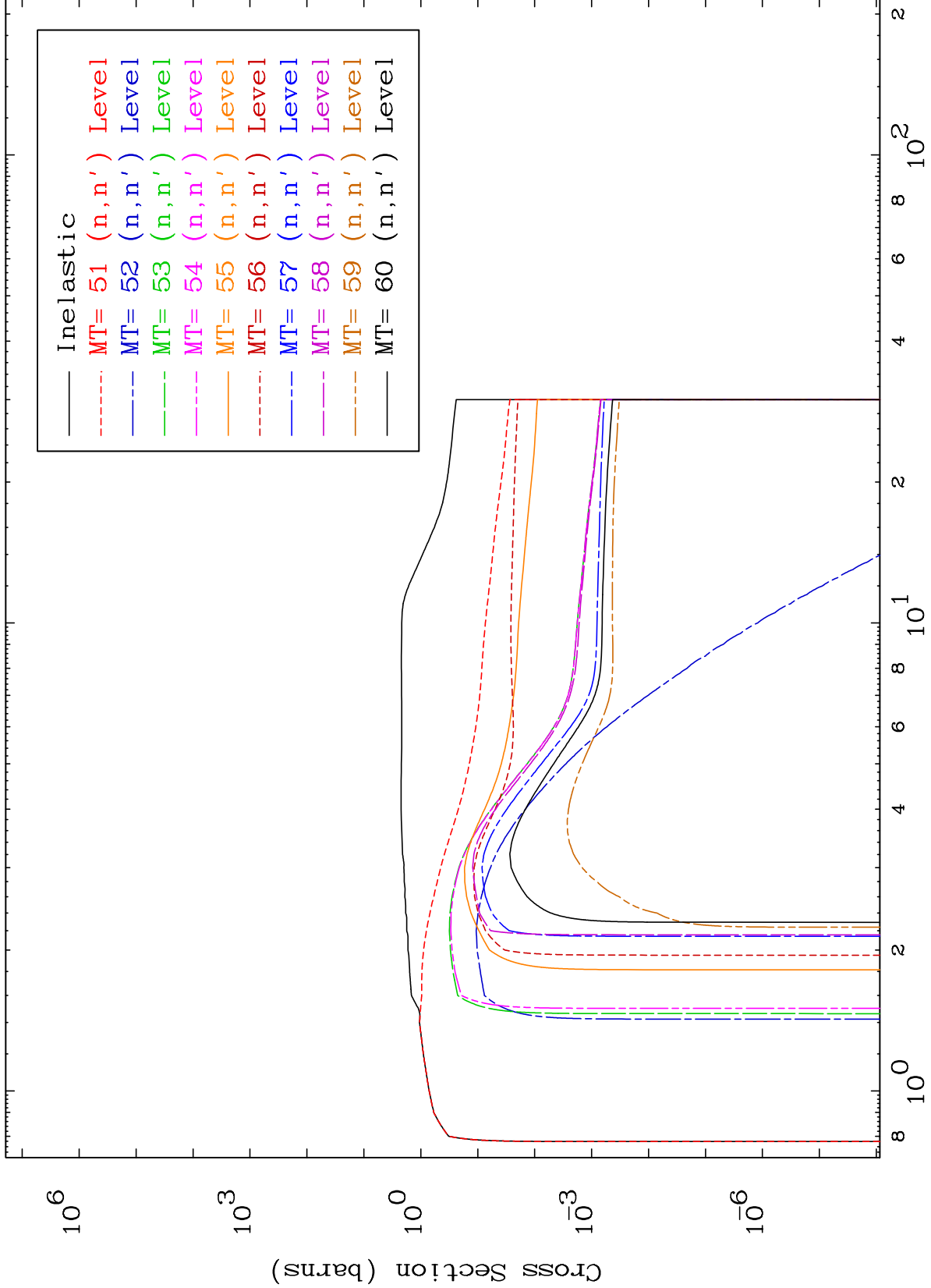


MAT 6019

(n,n') Level

60-Nd-140

293 Kelvin Cross Sections



Incident Energy (MeV)

60-Nd-140

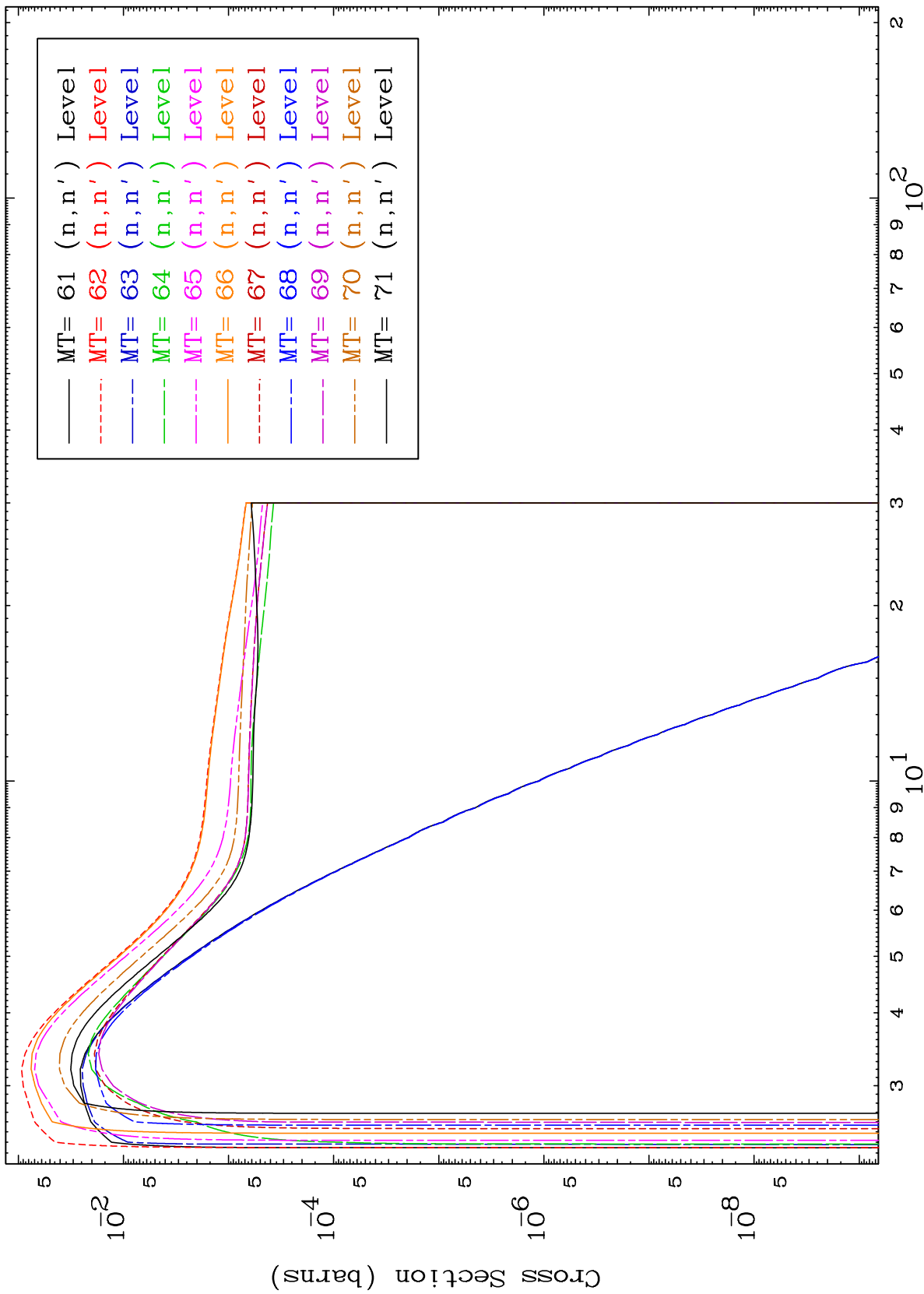
7

MAT 6019

(n,n') Level

60-Nd-140

293 Kelvin Cross Sections



8

Incident Energy (MeV)

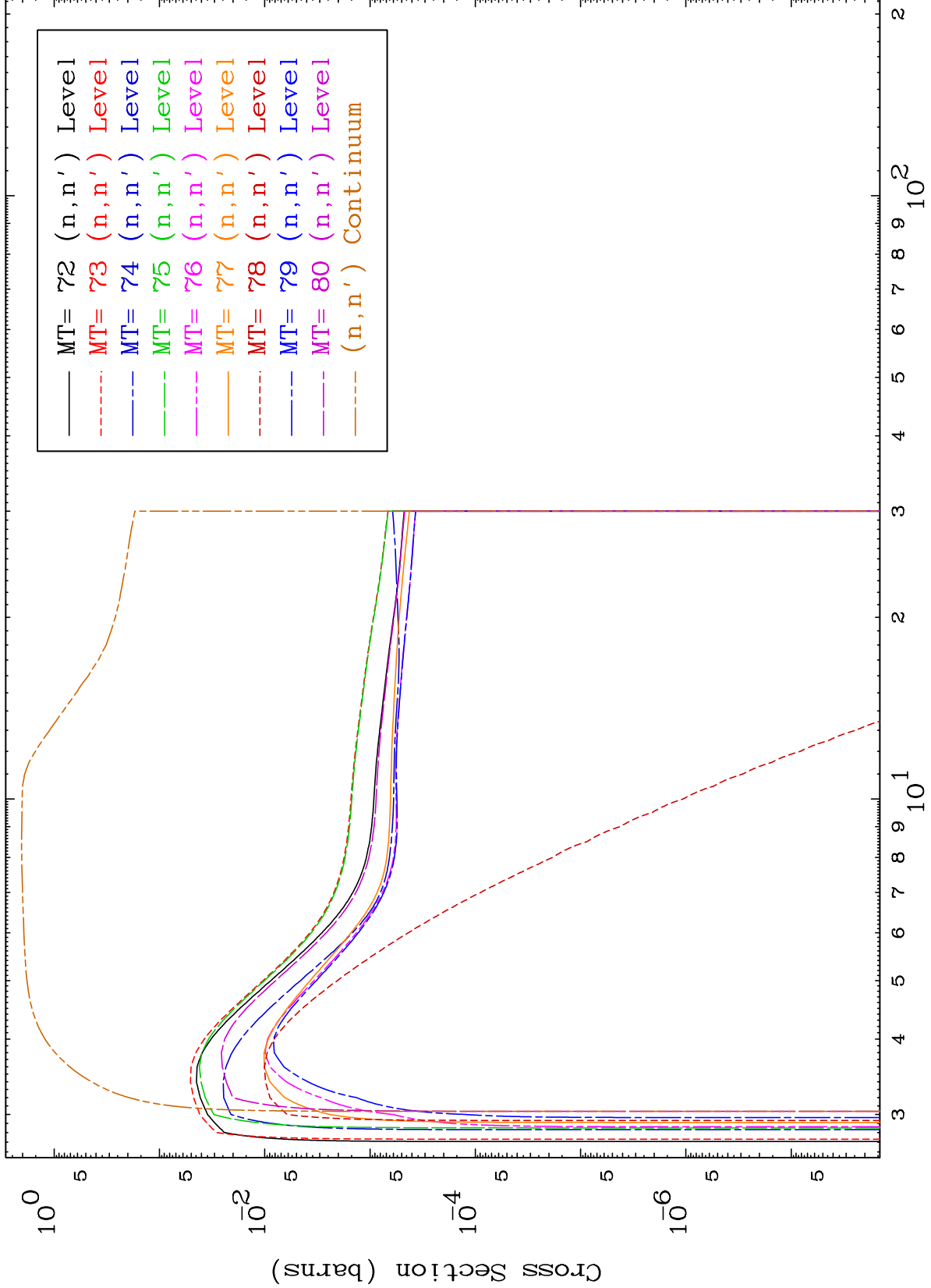
60-Nd-140

MAT 6019

(n,n') Level

60-Nd-140

293 Kelvin Cross Sections



9

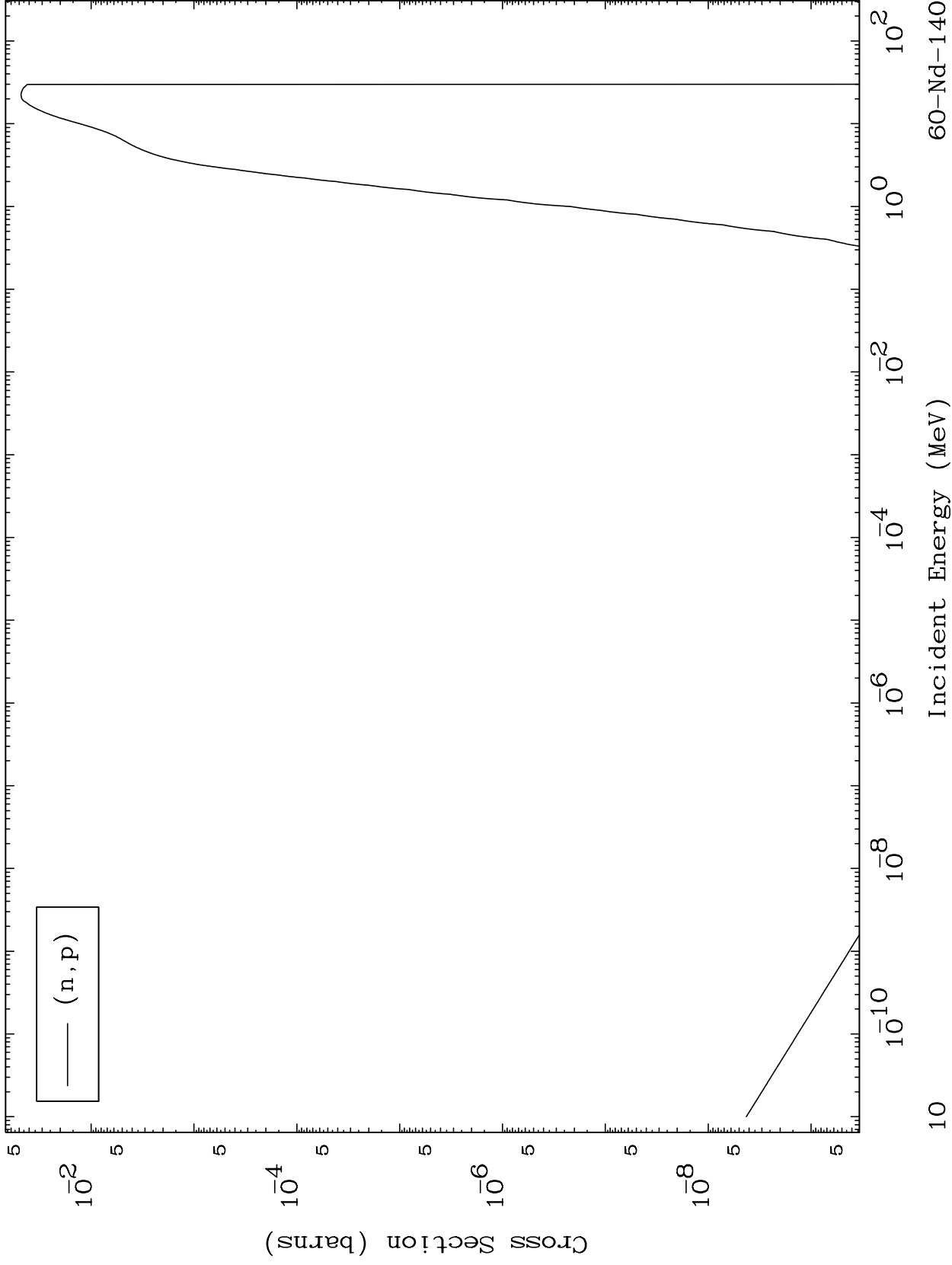
Incident Energy (MeV)

60-Nd-140

MAT 6019

(n,p) Levels
293 Kelvin Cross Sections

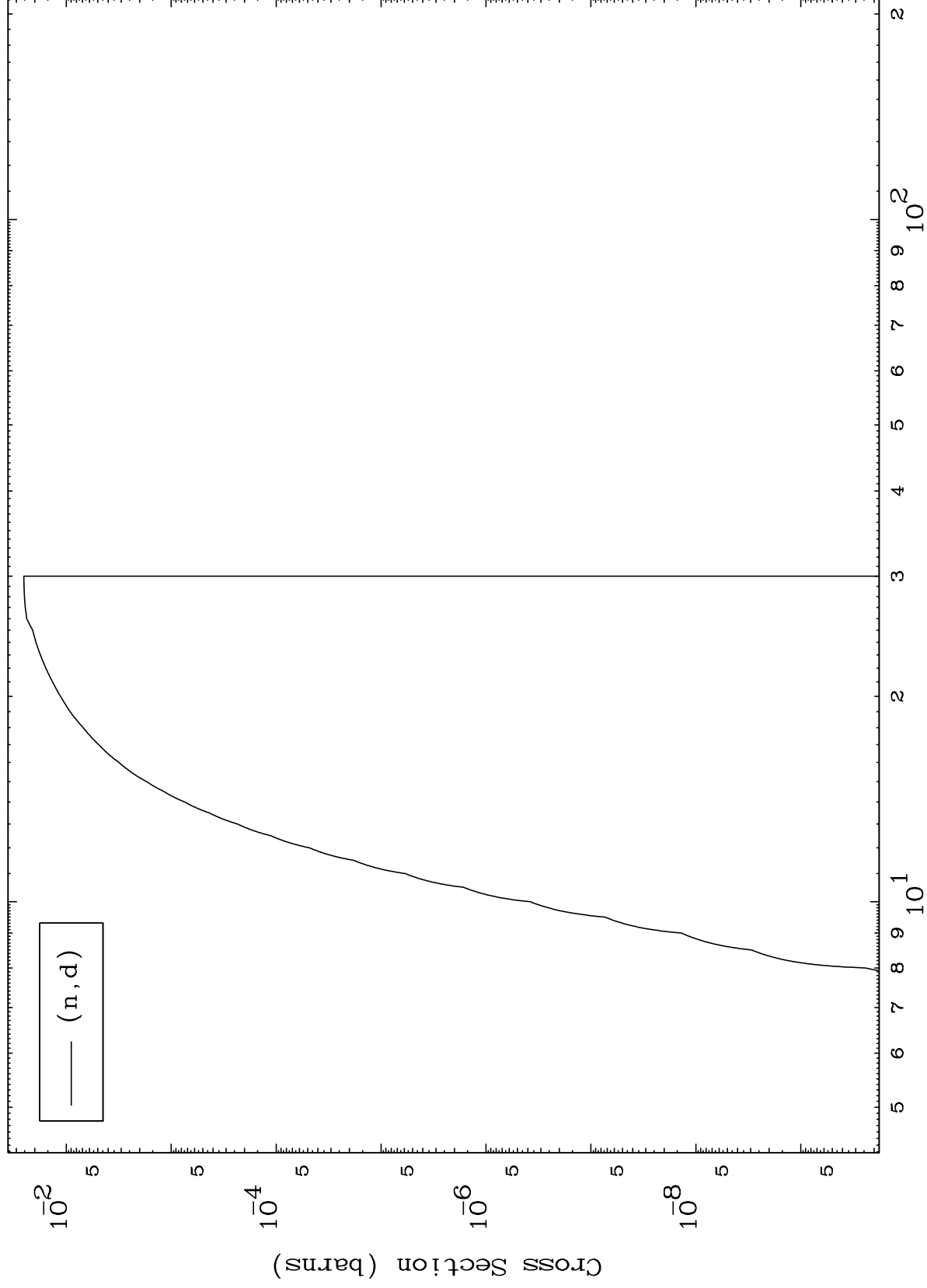
60-Nd-140



MAT 6019

(n,d) Levels
293 Kelvin Cross Sections

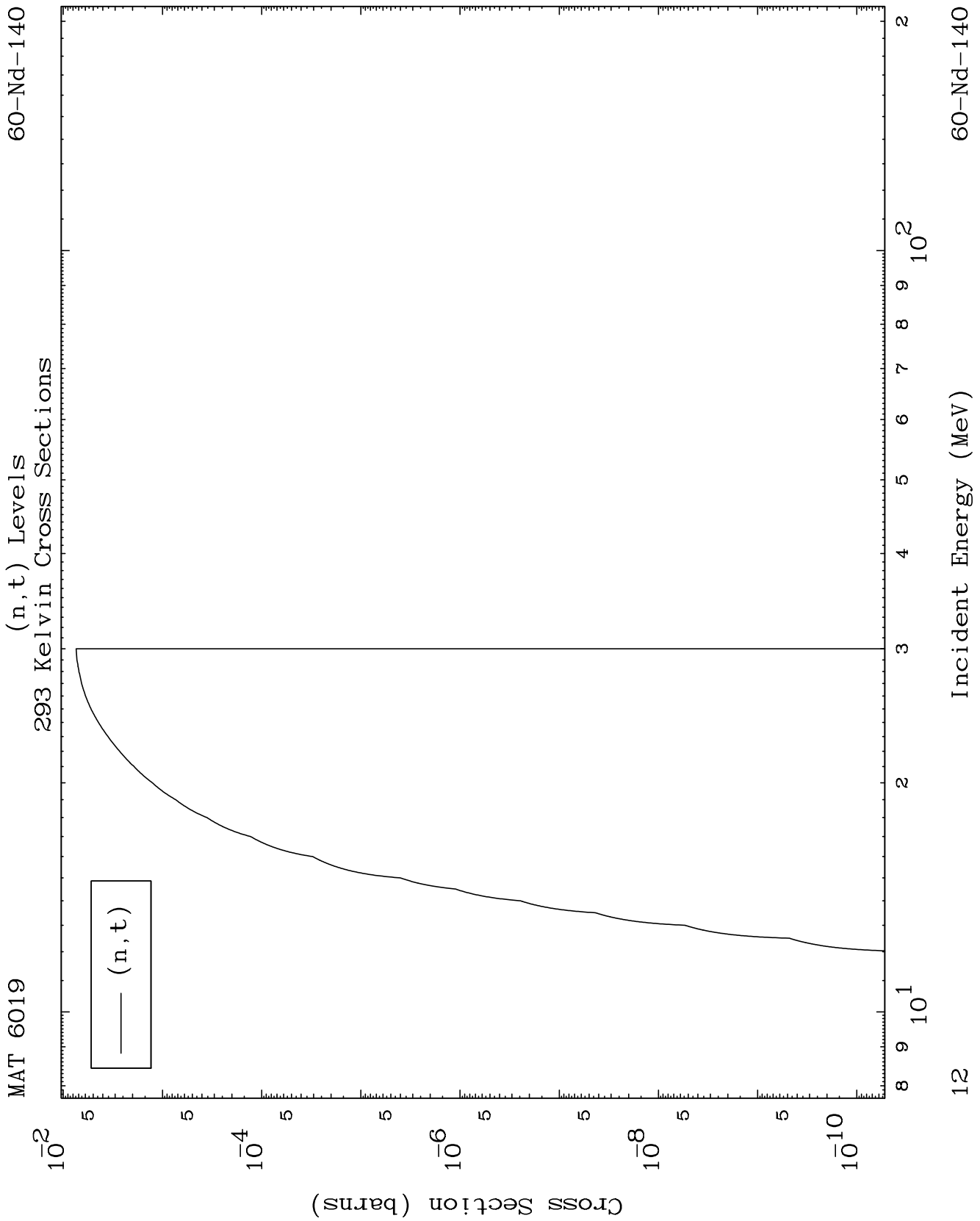
60-Nd-140



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Incident Energy (MeV)

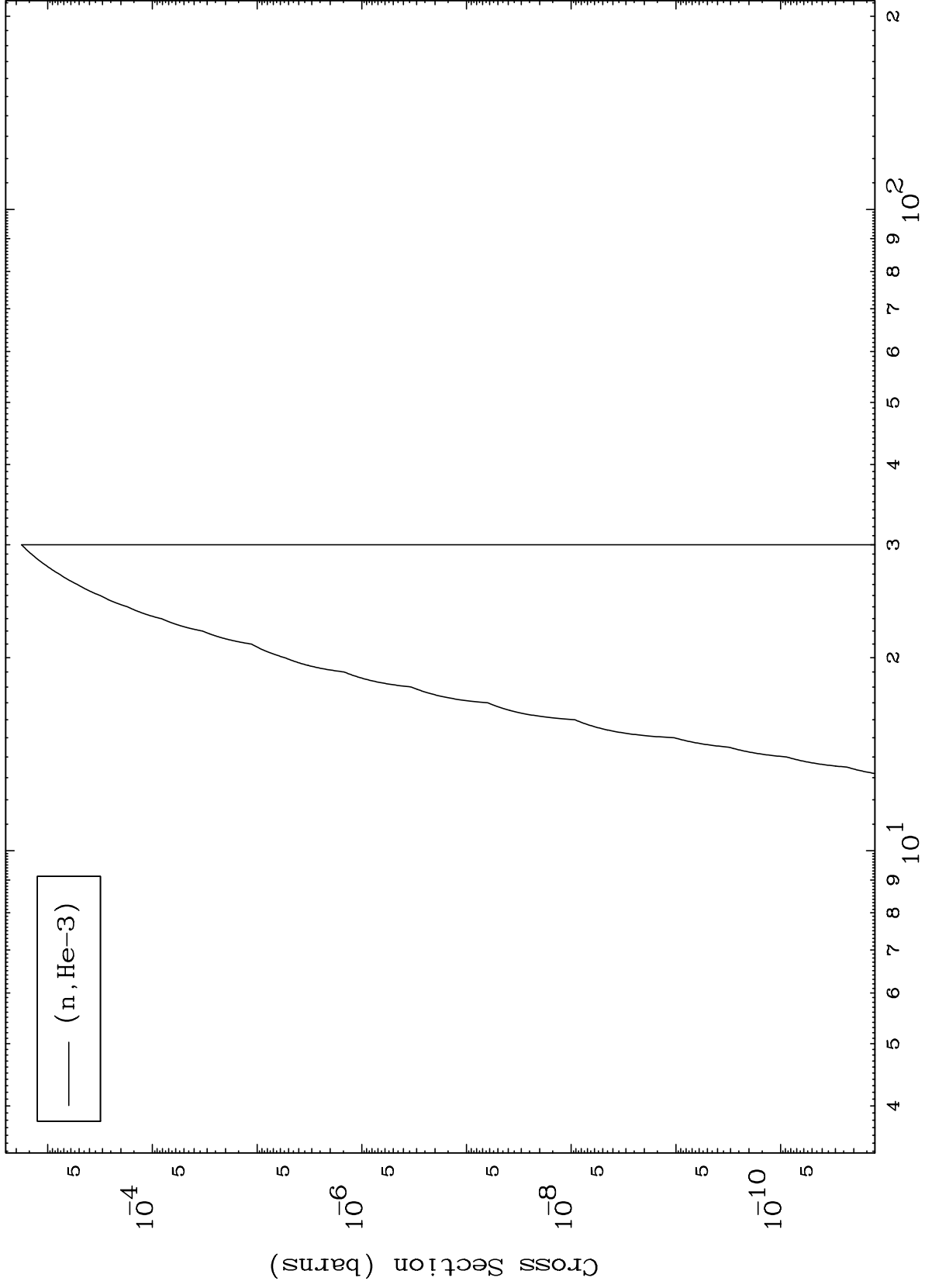
60-Nd-140



MAT 6019

(n,He3) Levels
293 Kelvin Cross Sections

60-Nd-140



13

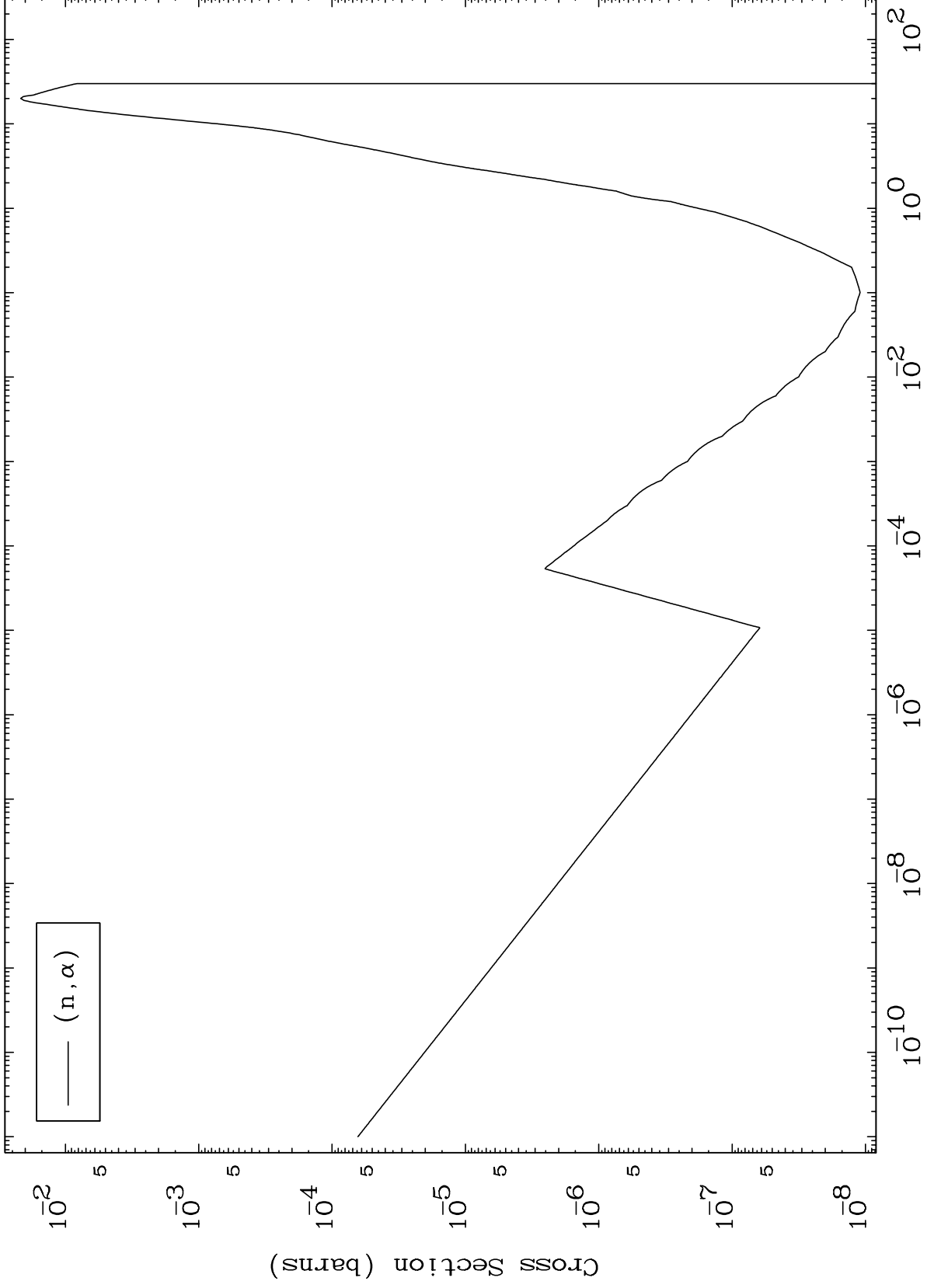
Incident Energy (MeV)

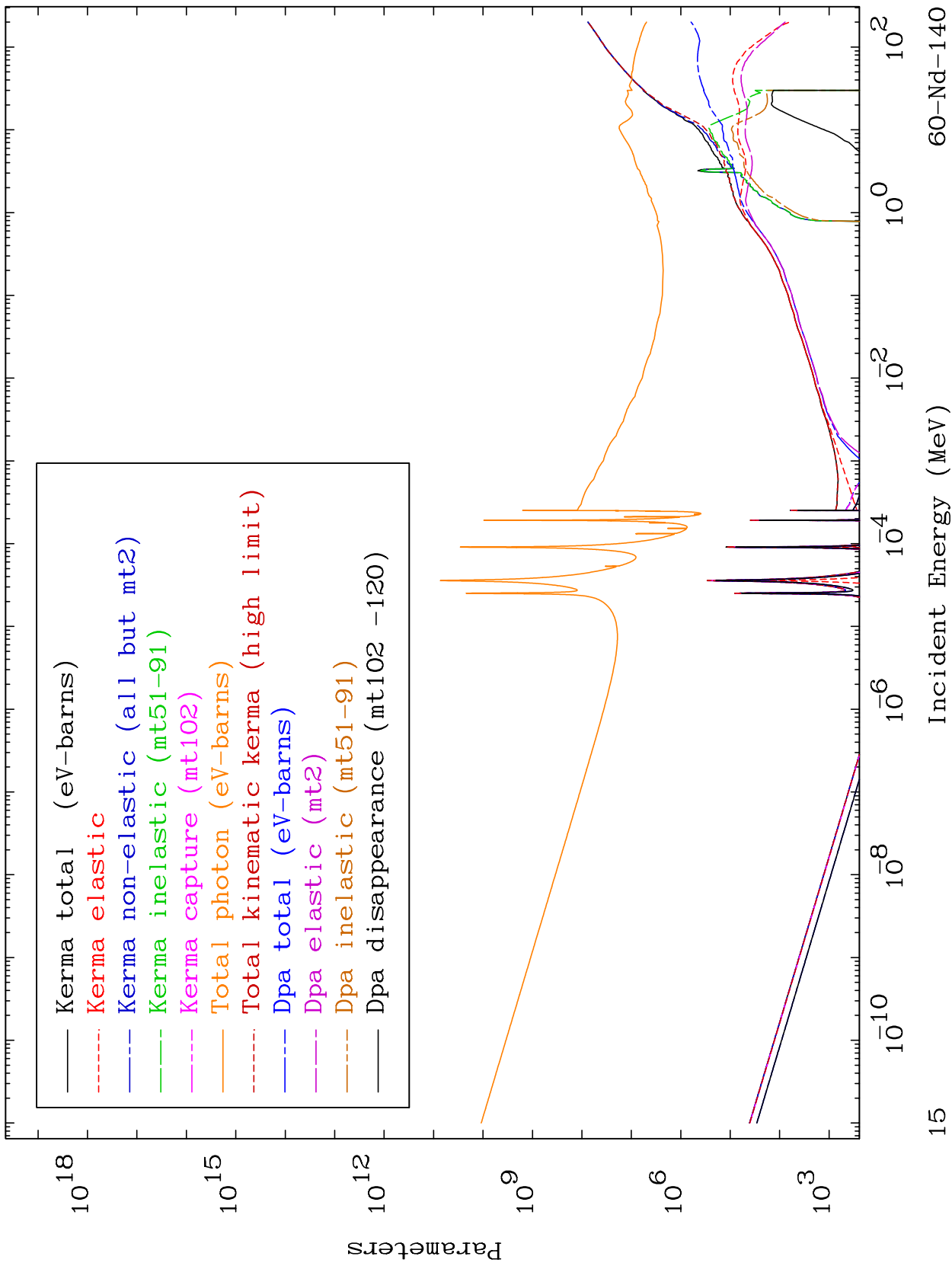
60-Nd-140

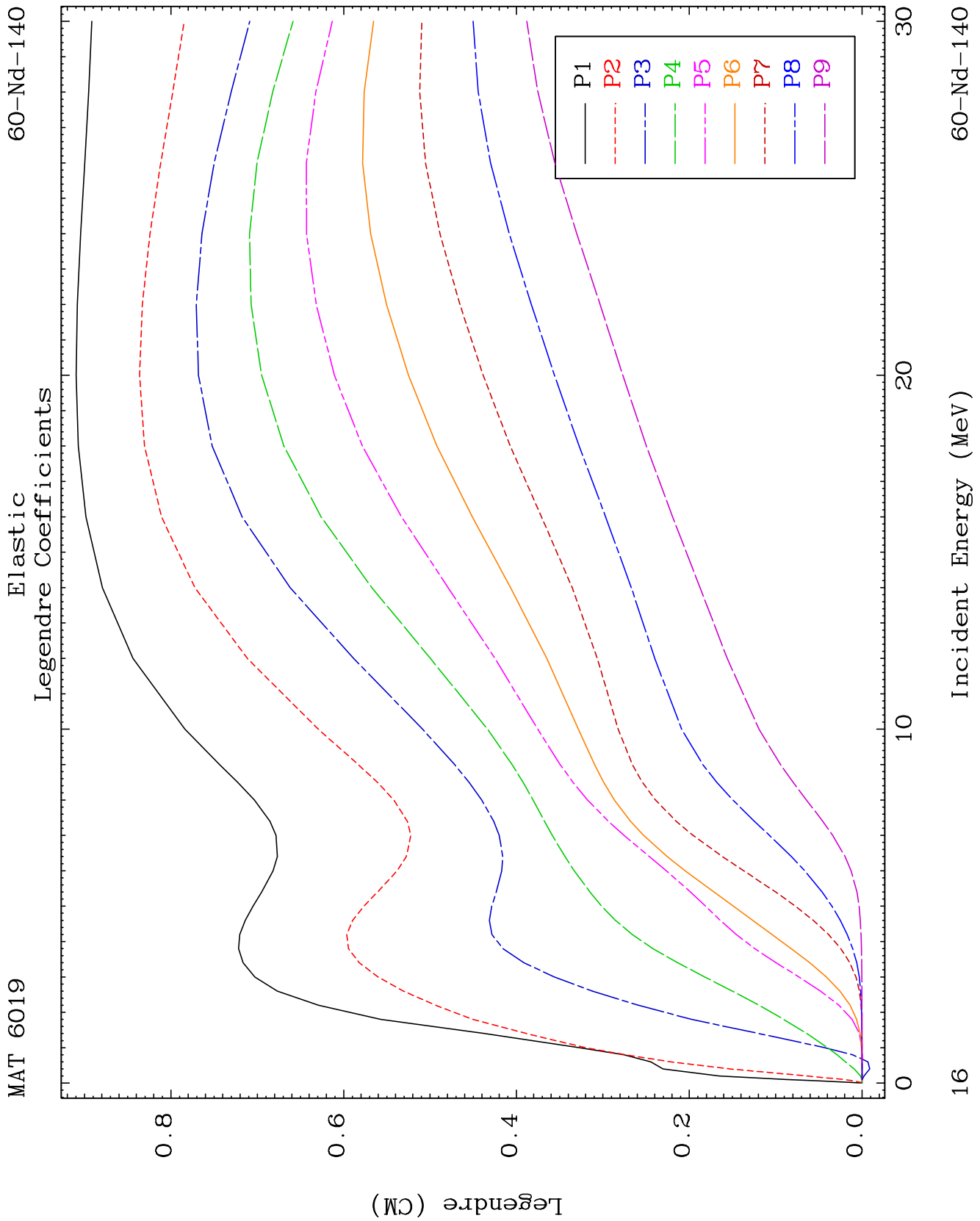
MAT 6019

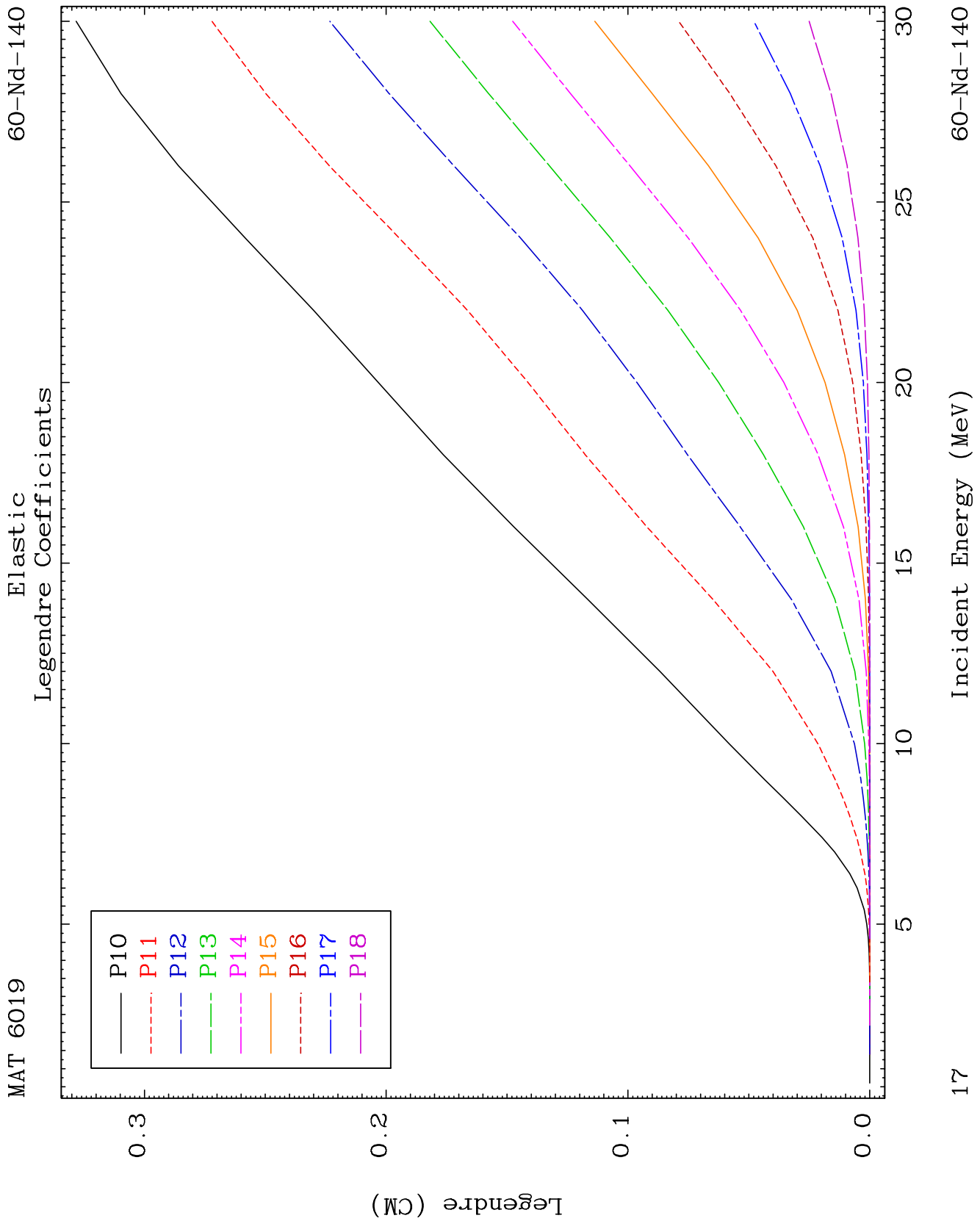
(n, α) Levels
293 Kelvin Cross Sections

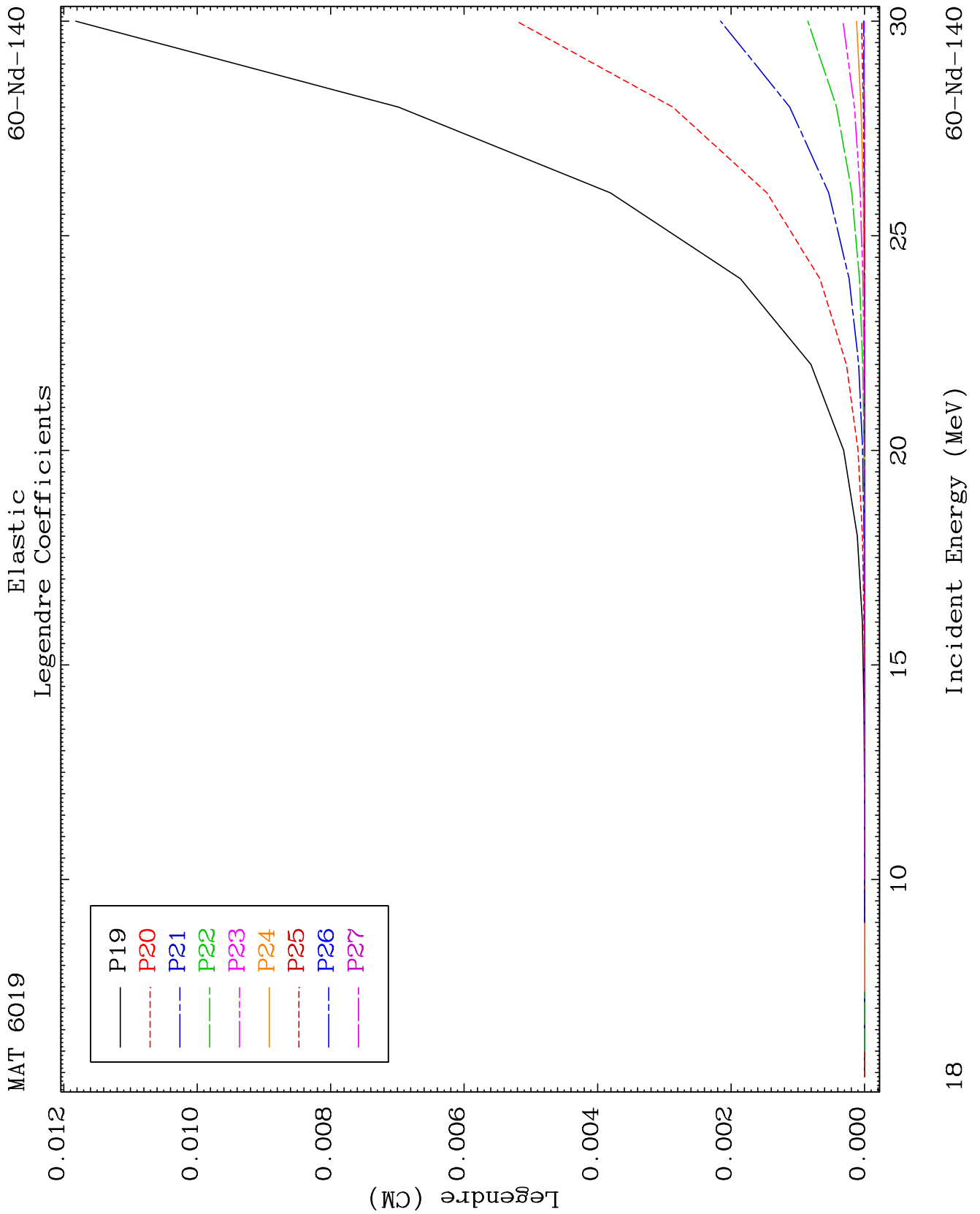
60-Nd-140







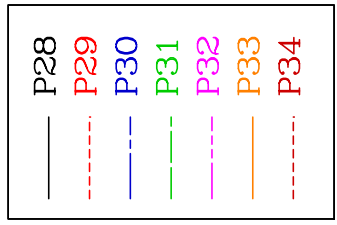




MAT 6019

Elastic
Legendre Coefficients

60-Nd-140



$\times 10^{-6}$

1.2

Legendre (CM)

0.8

0.4

0.0

15

20

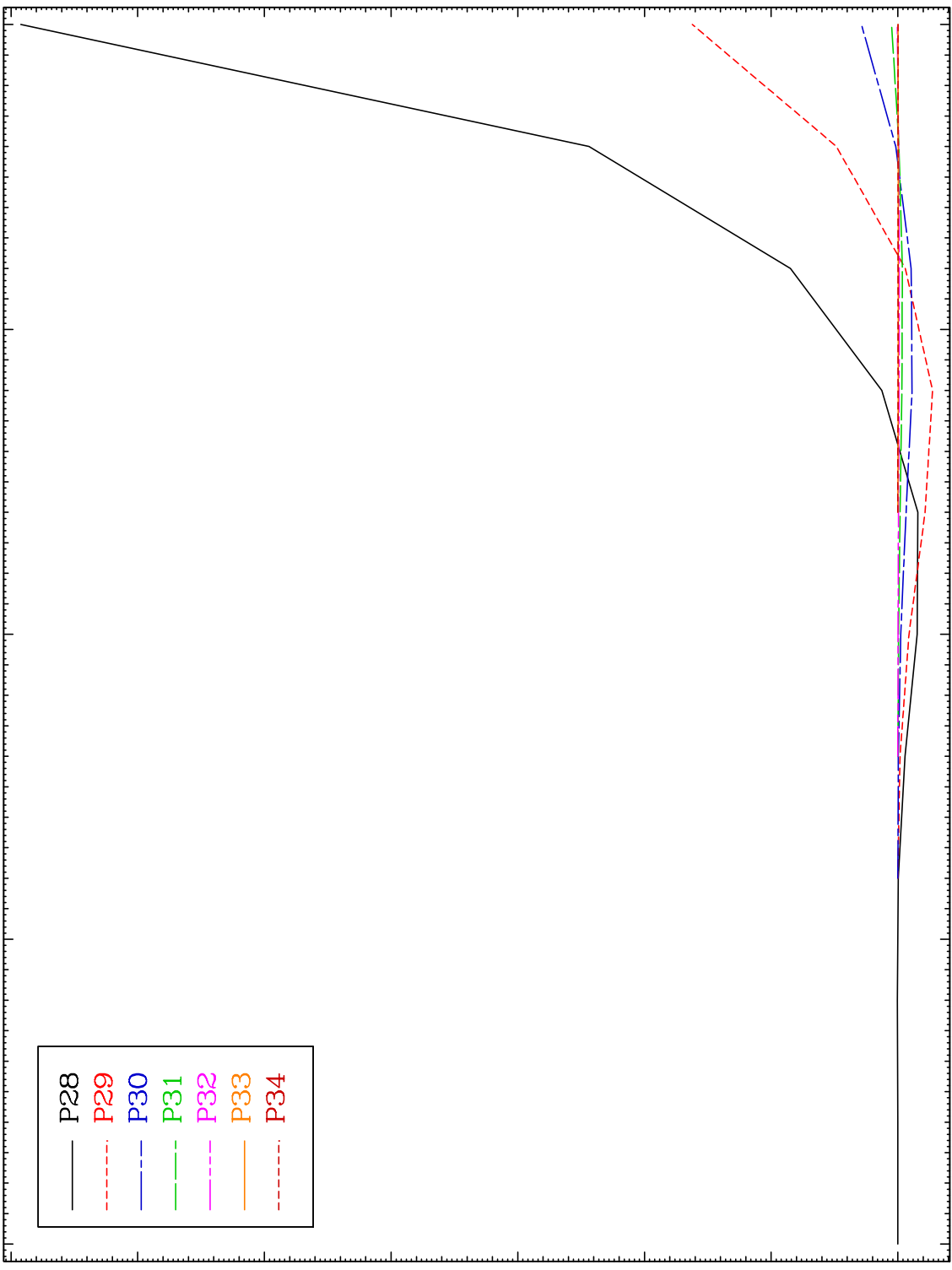
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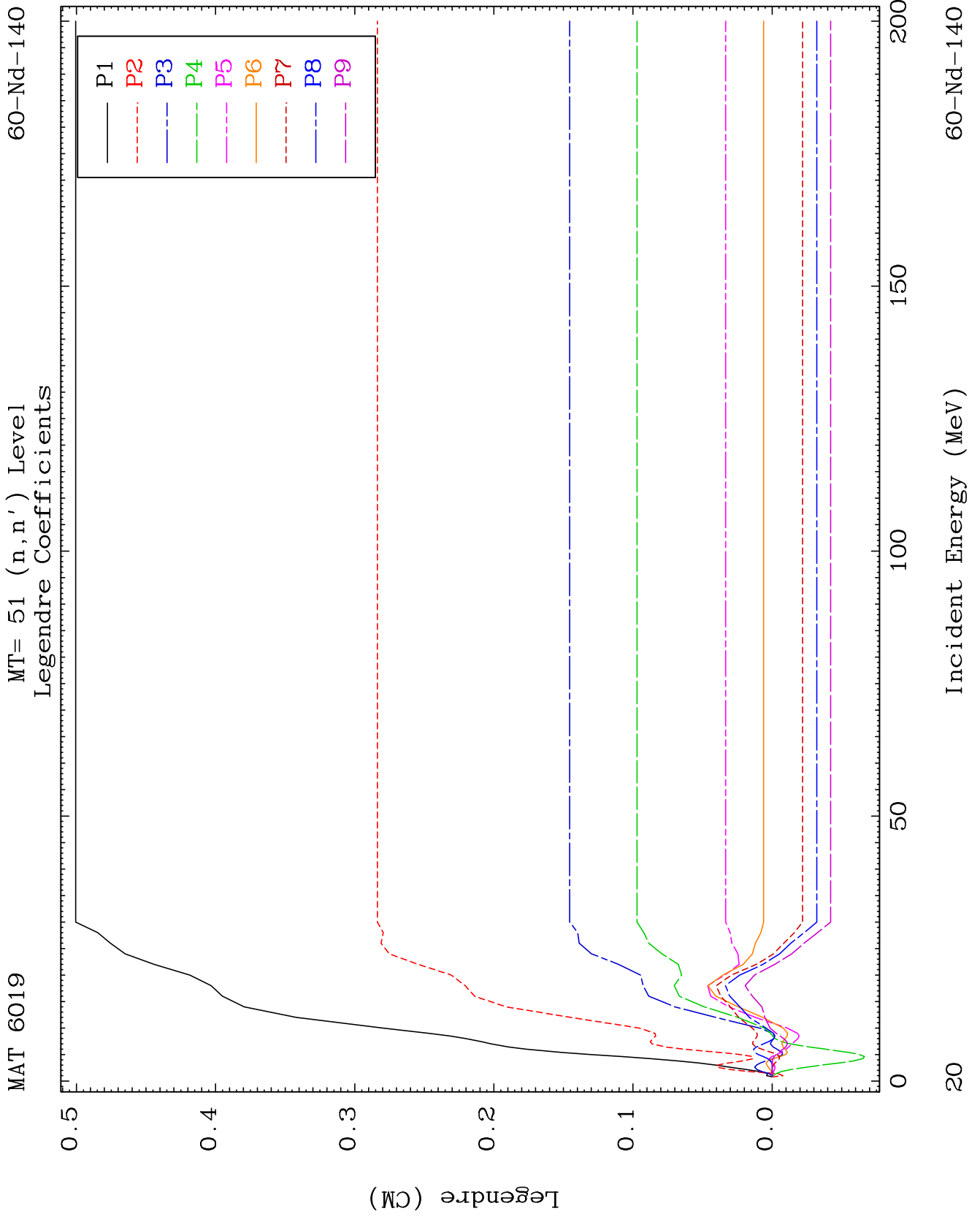
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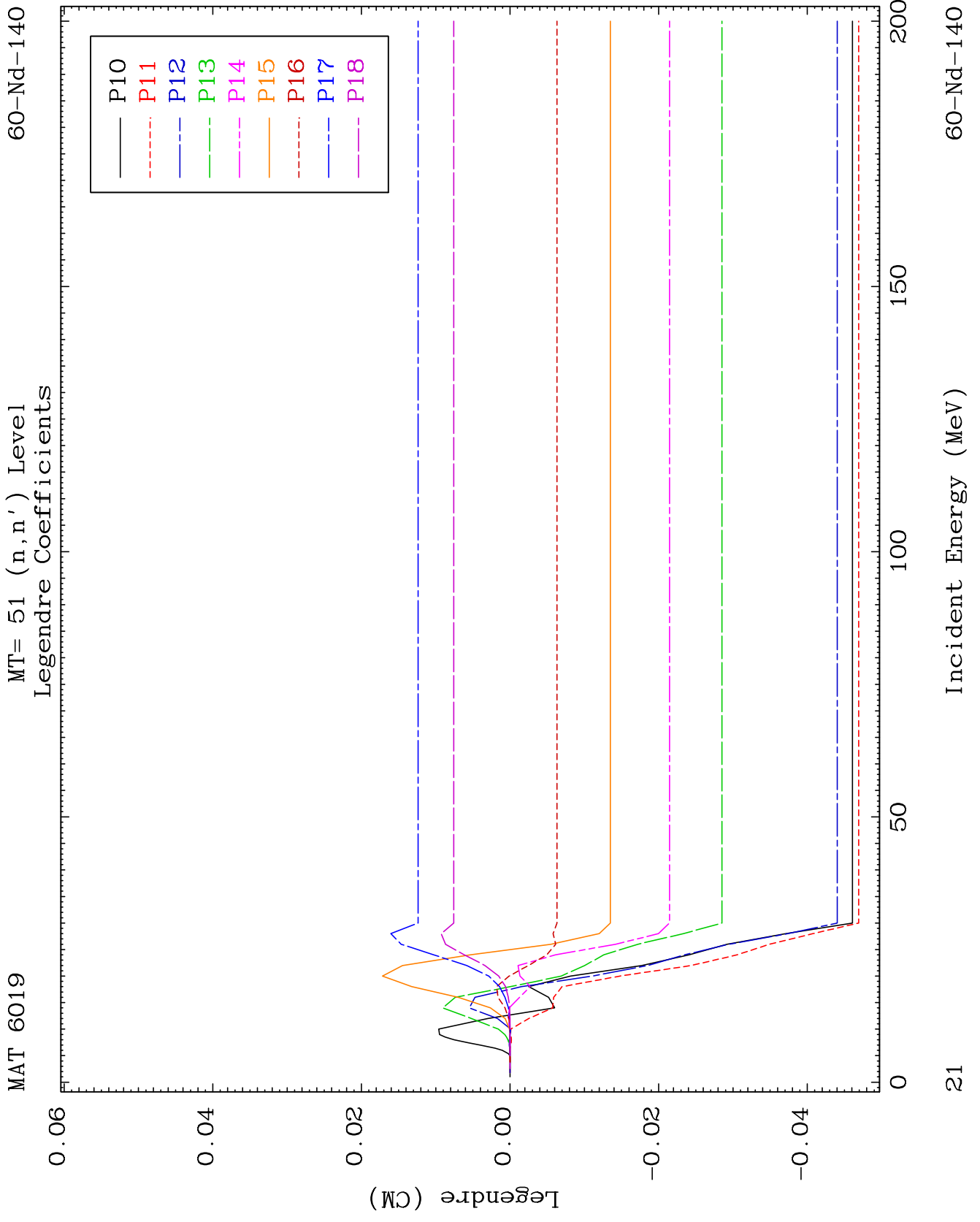
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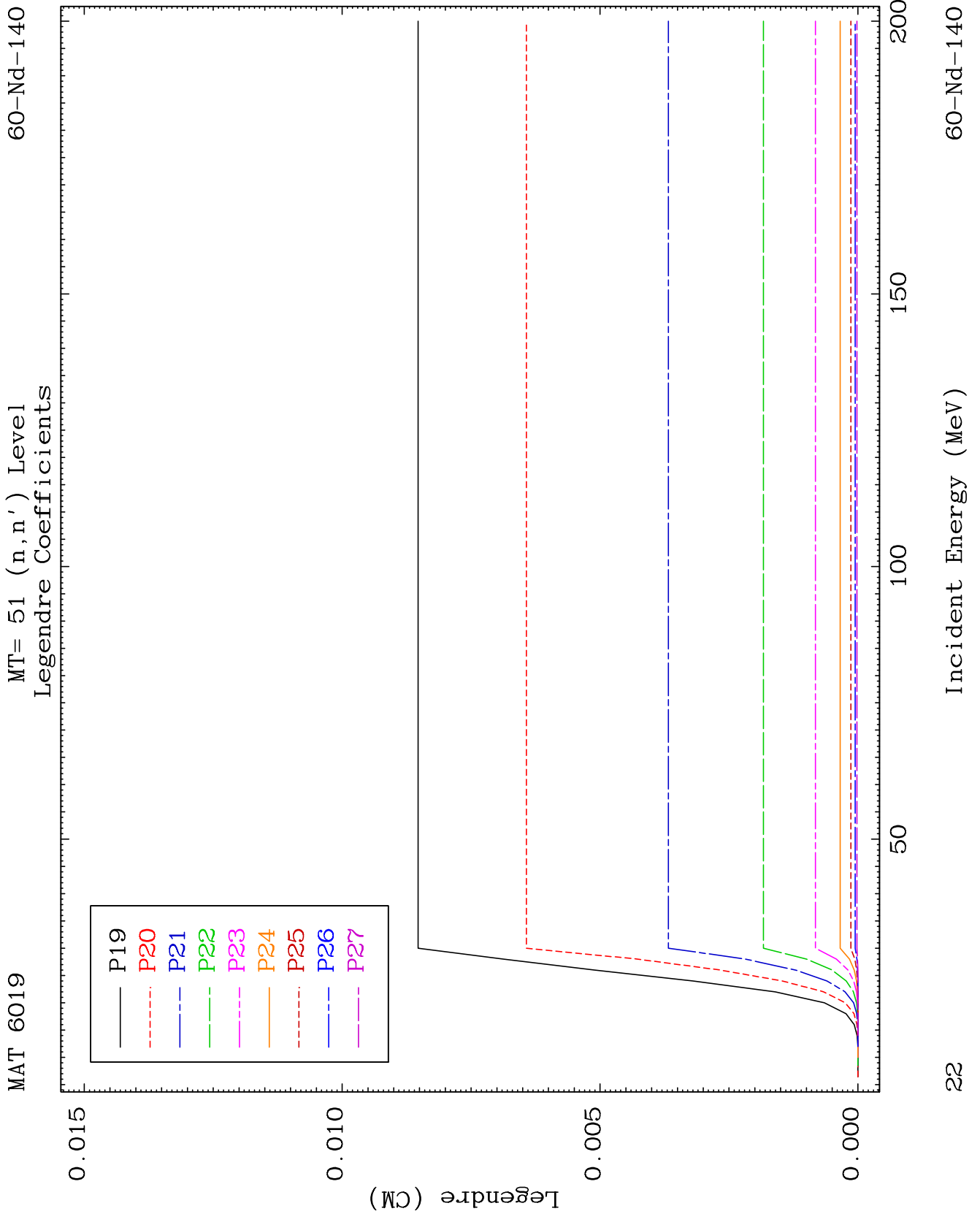
Incident Energy (MeV)

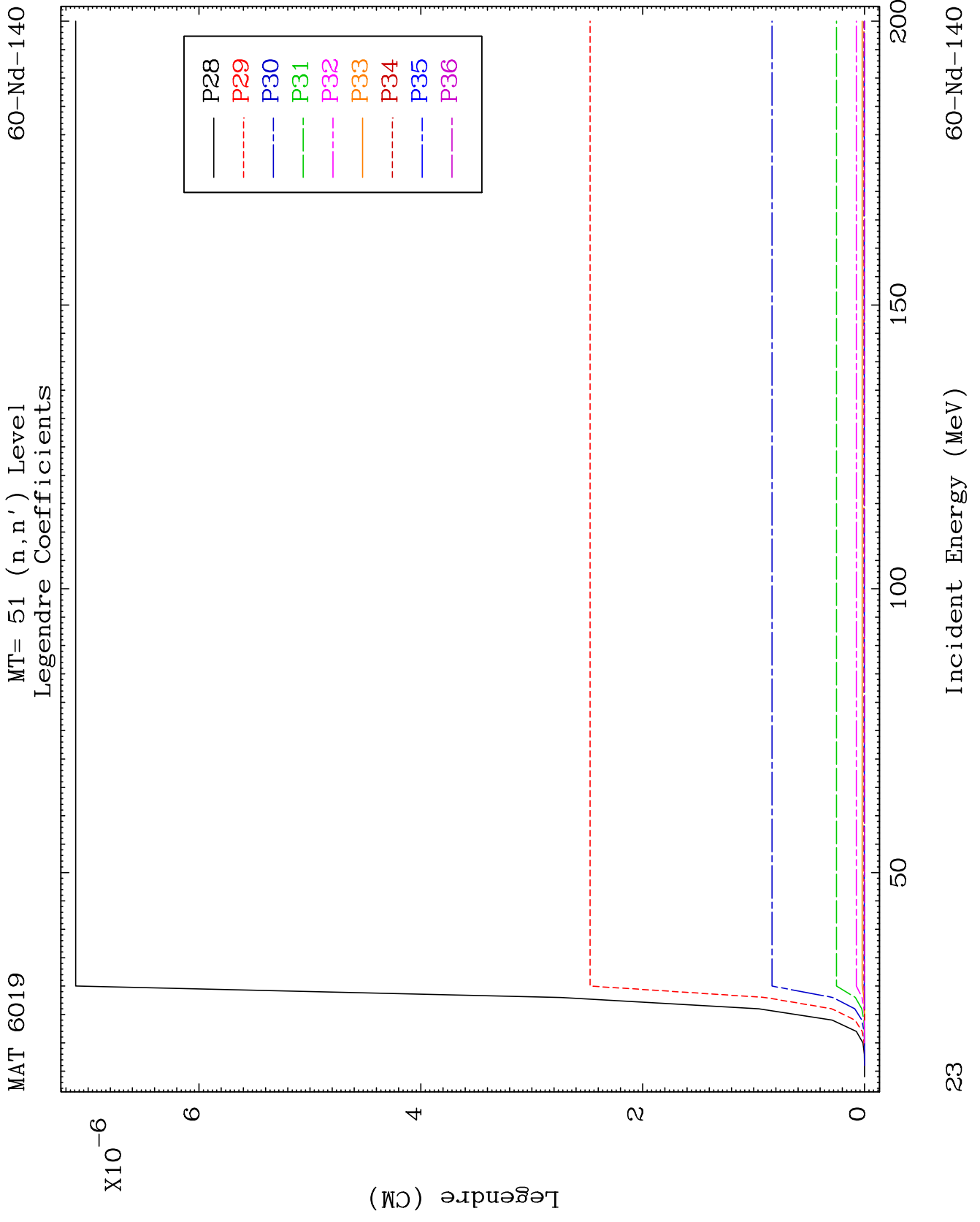
60-Nd-140

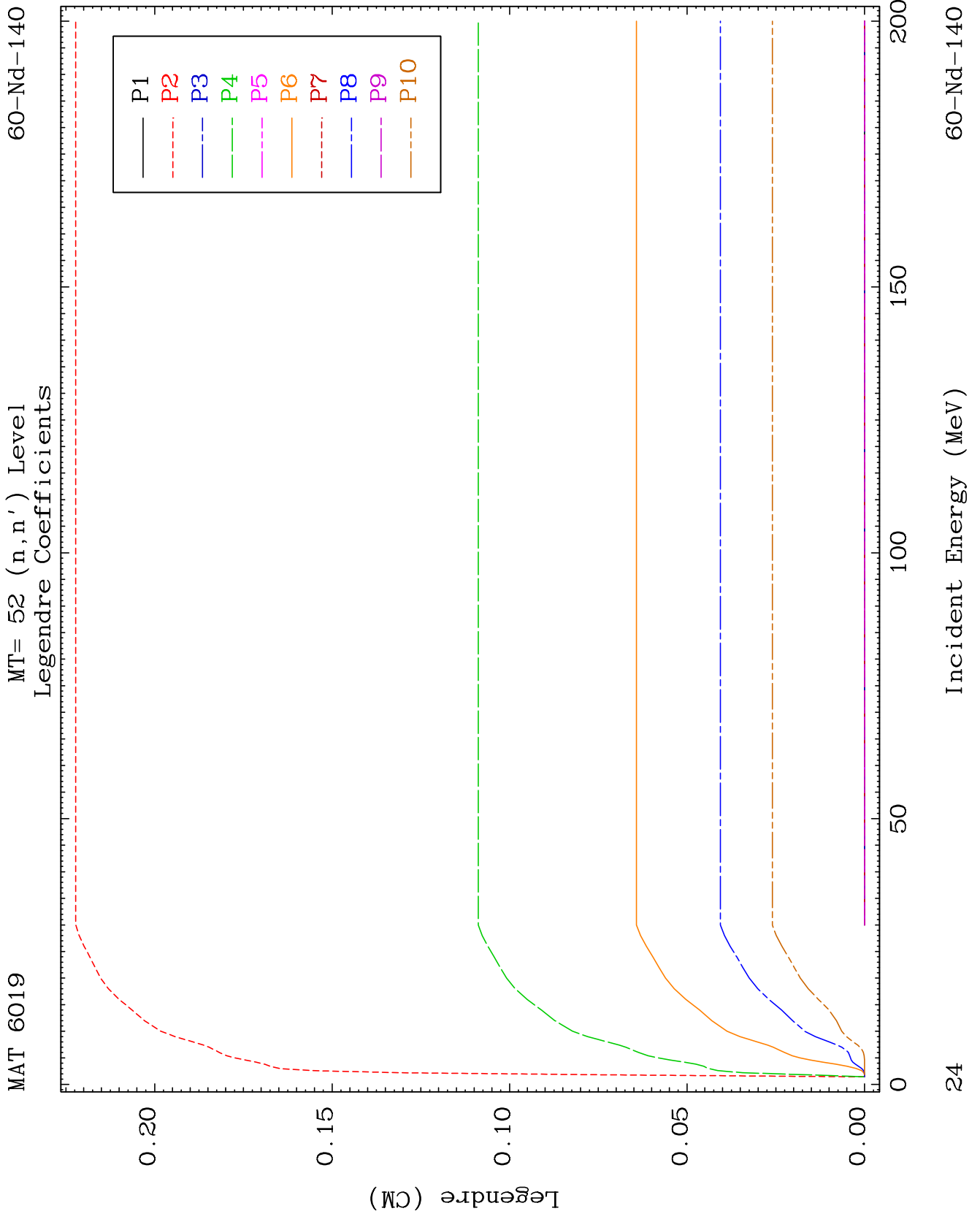


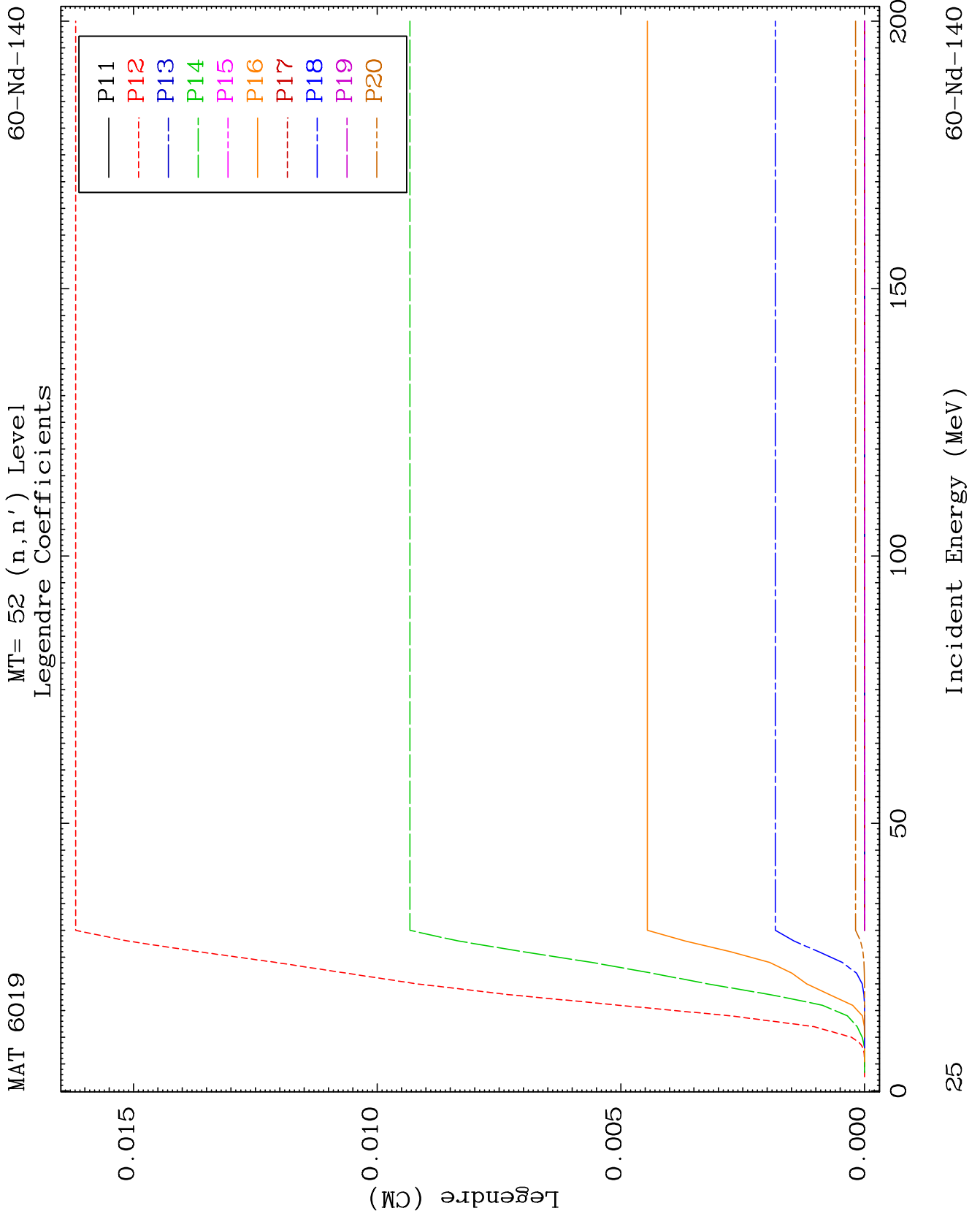


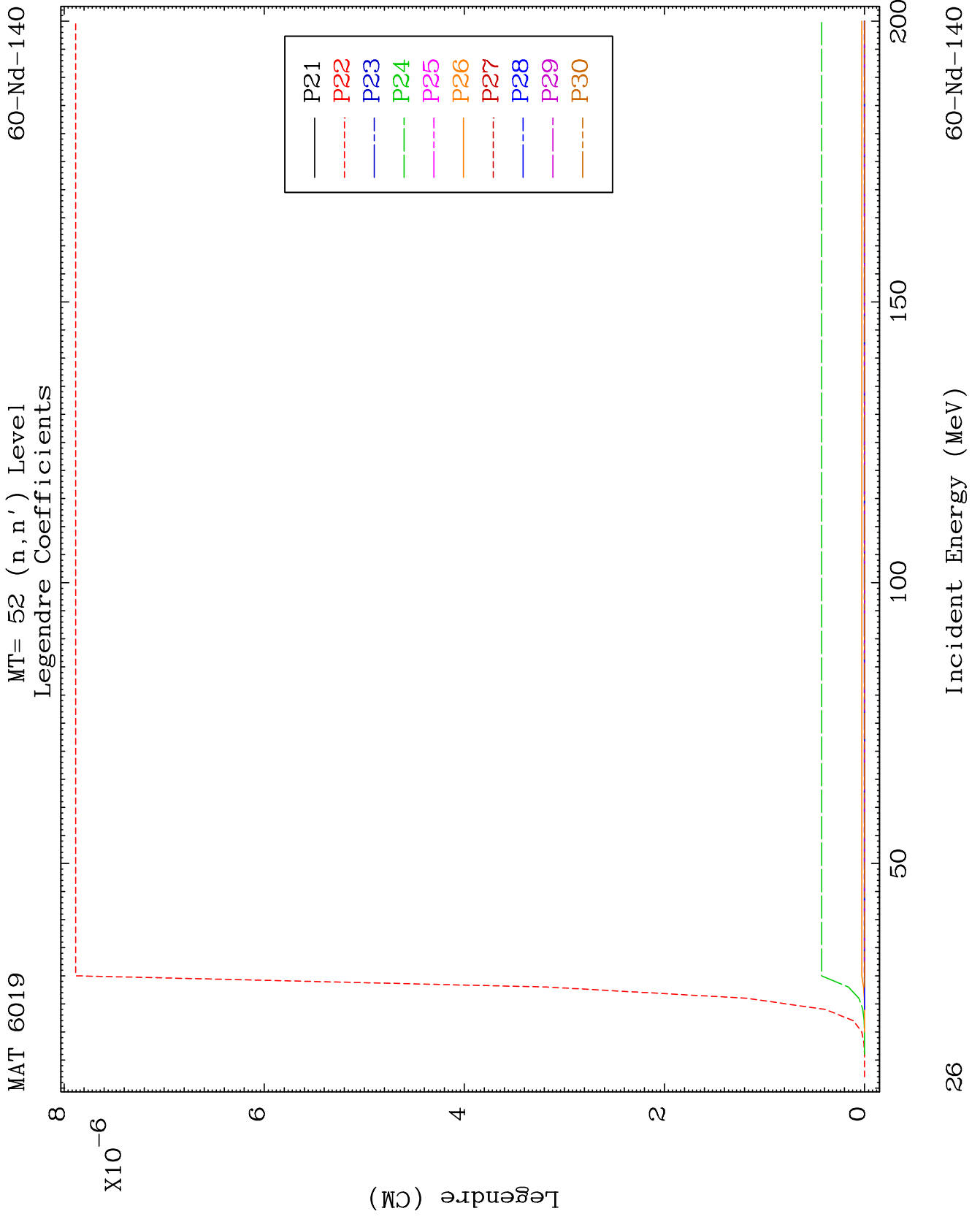


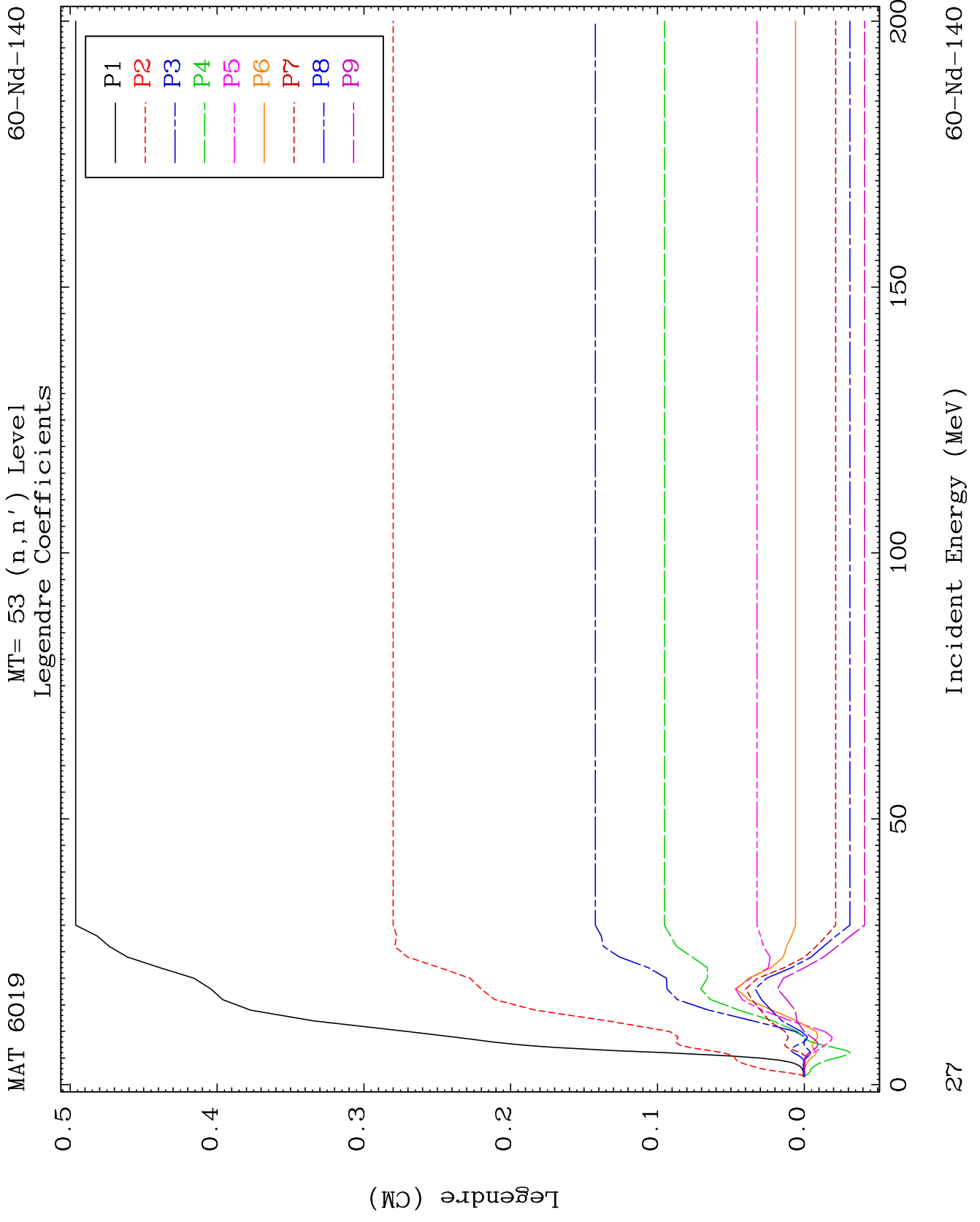


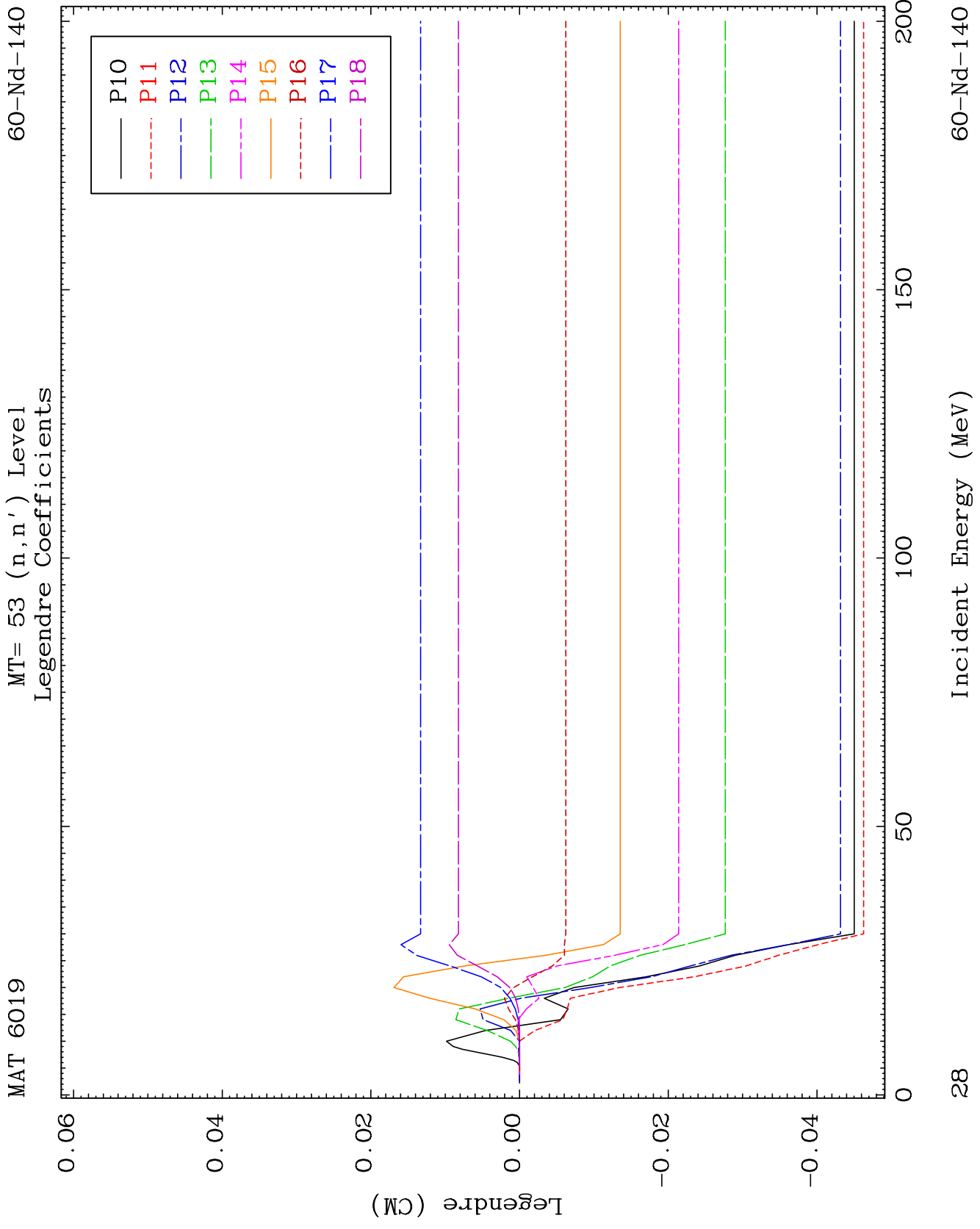


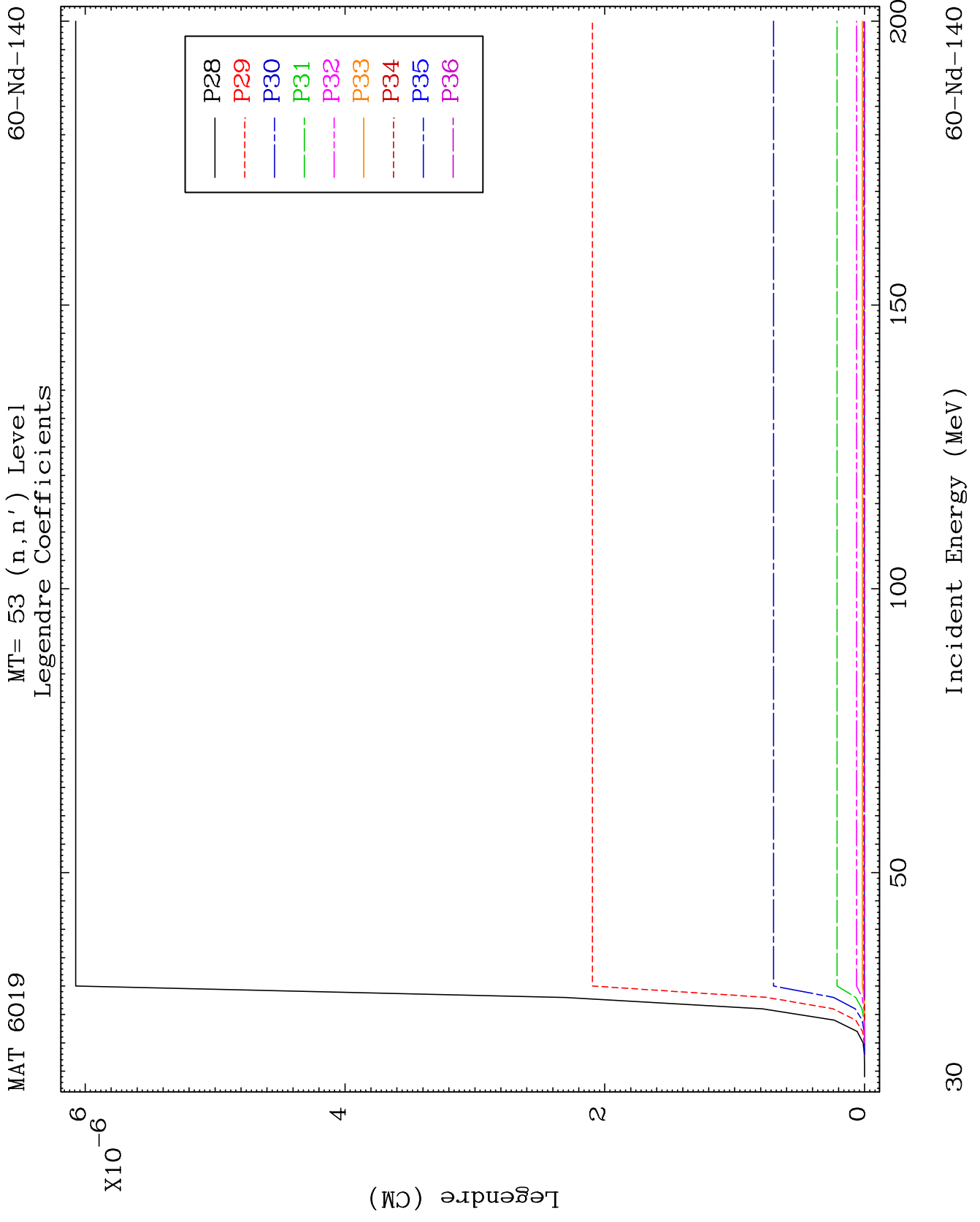


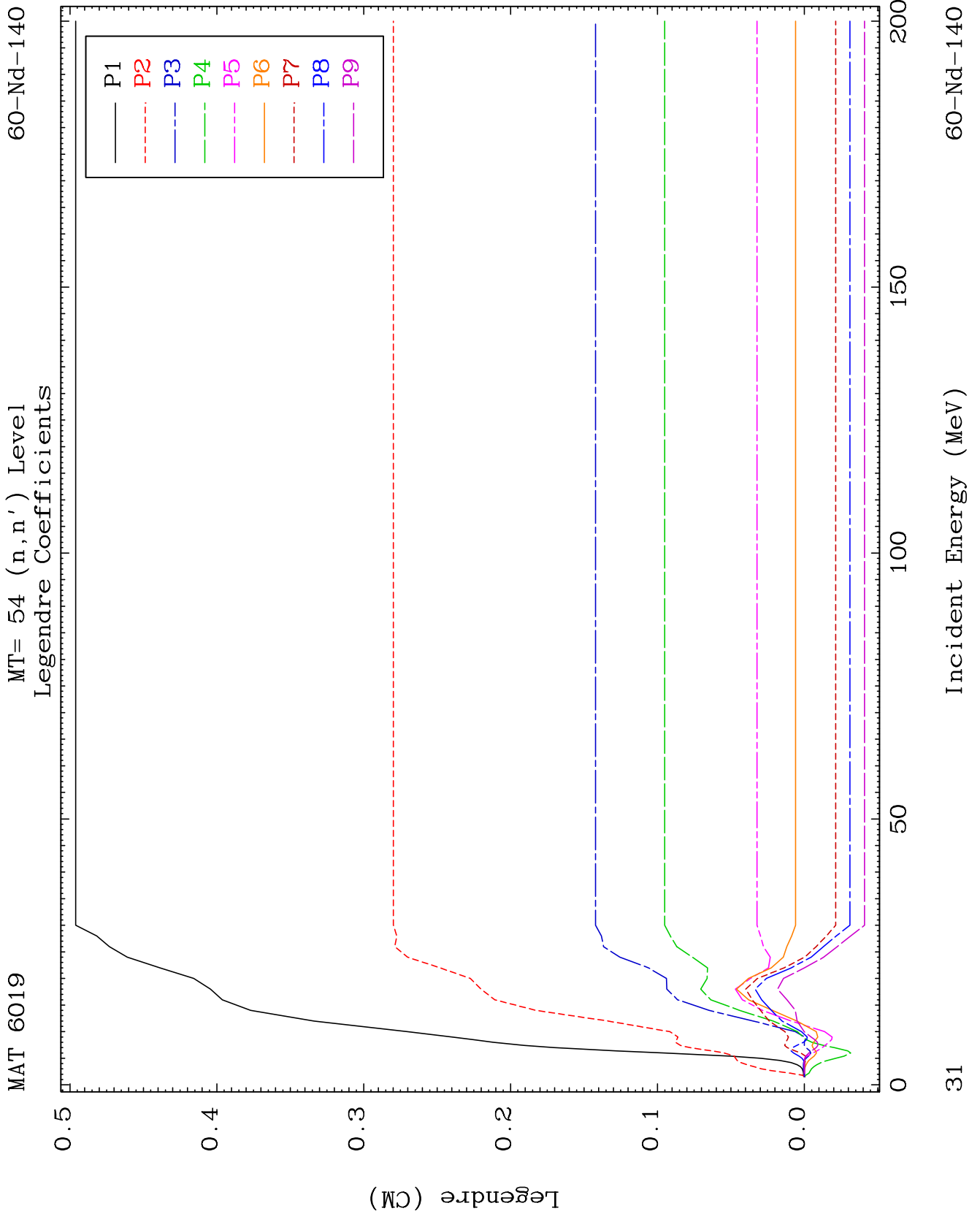


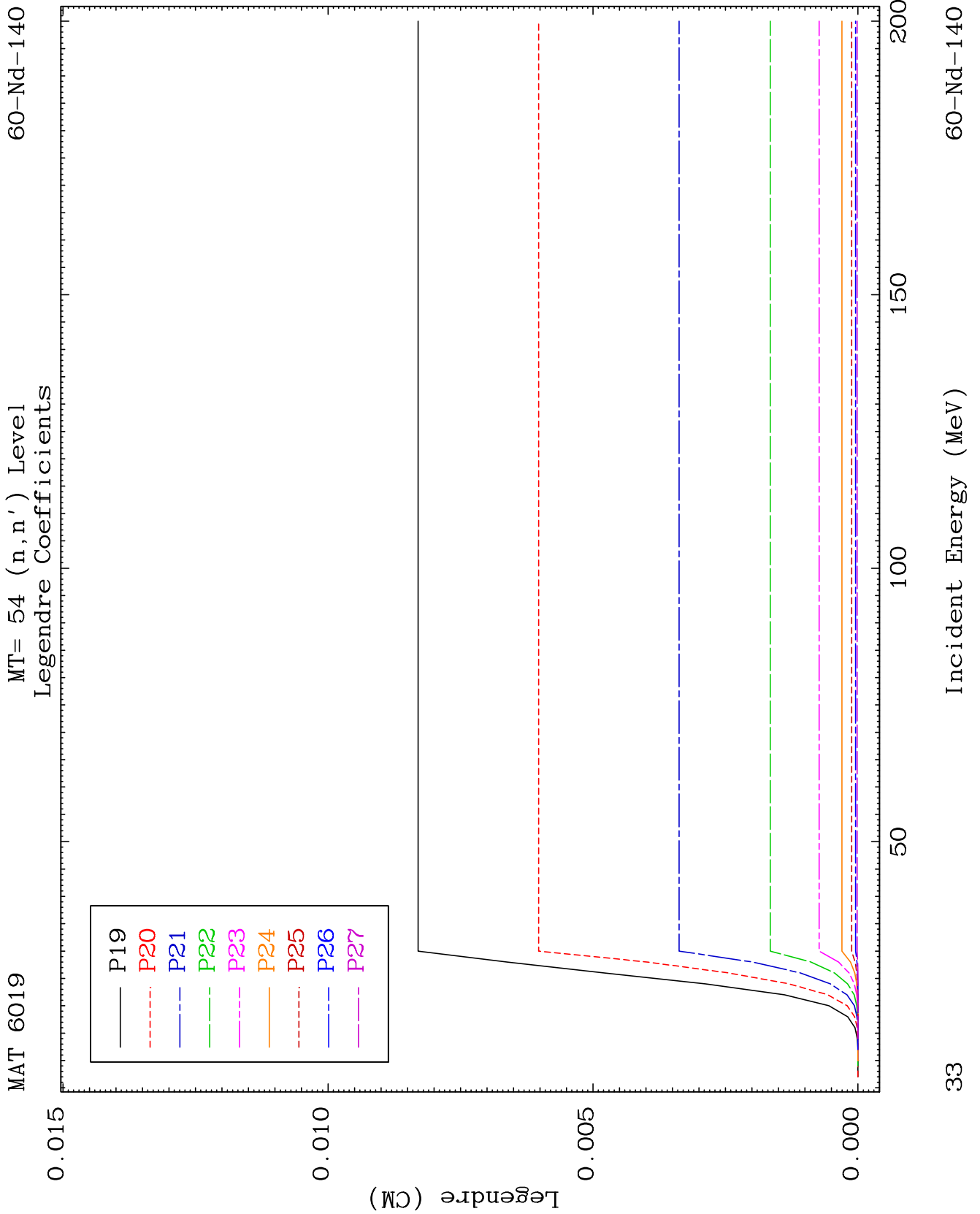


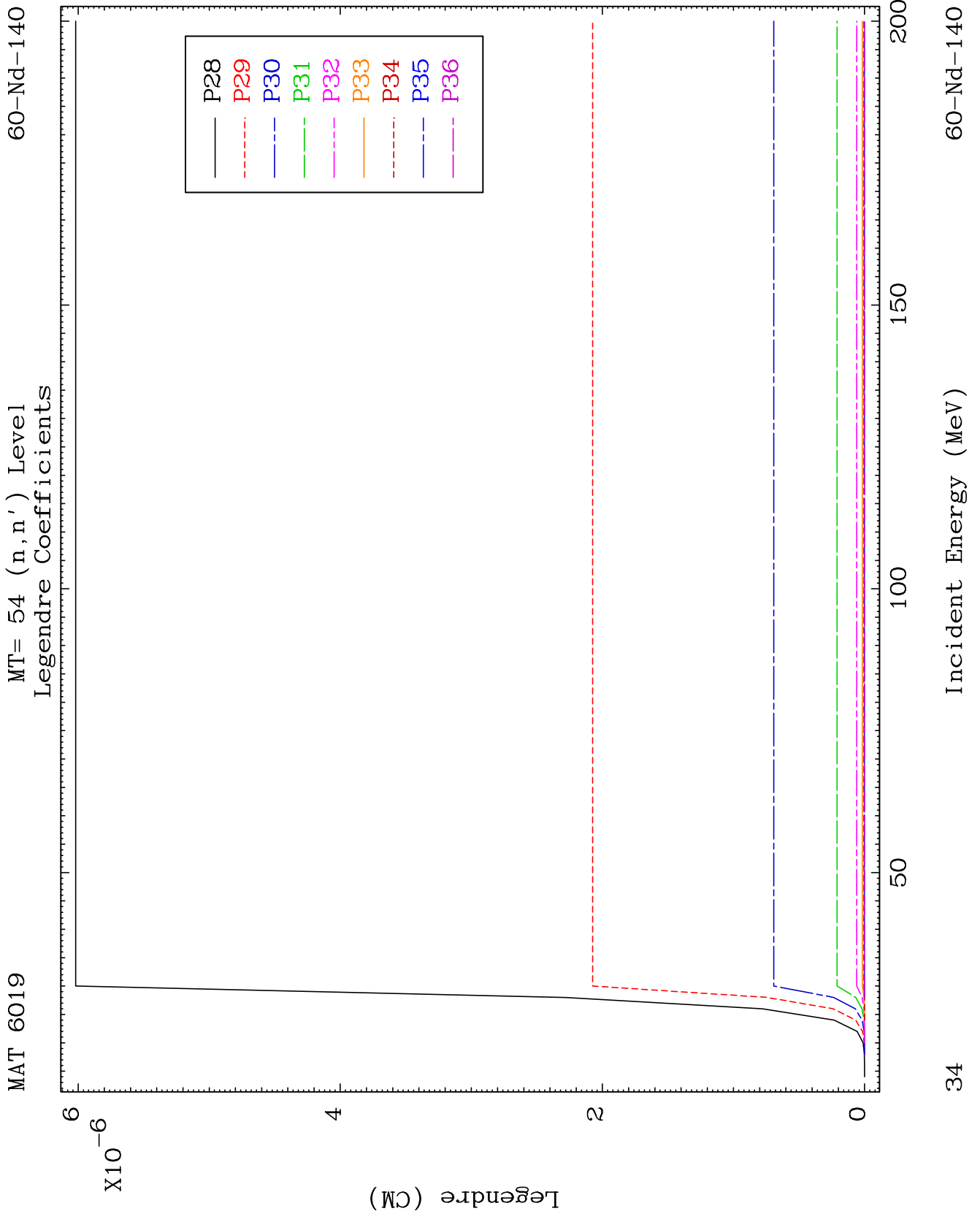


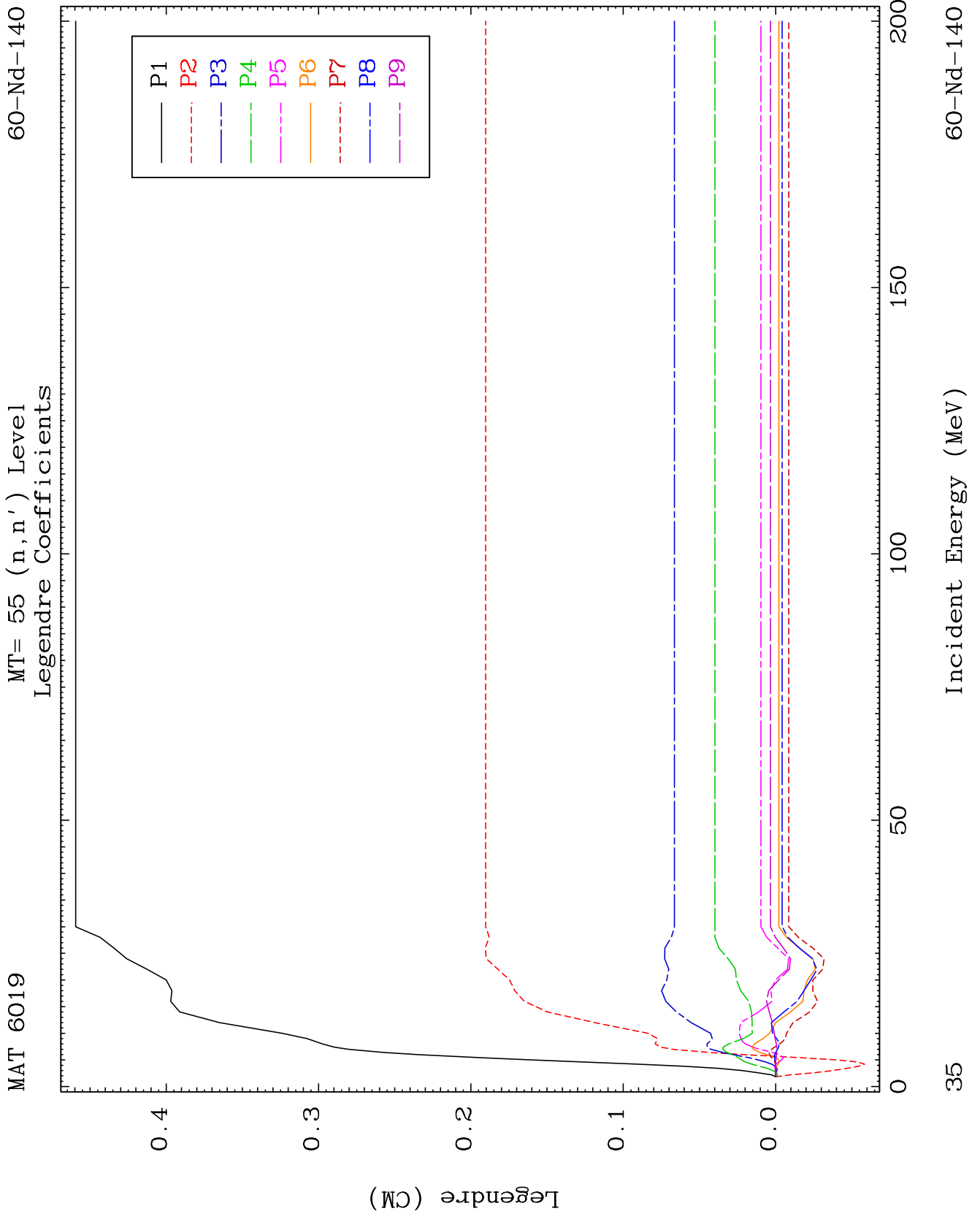








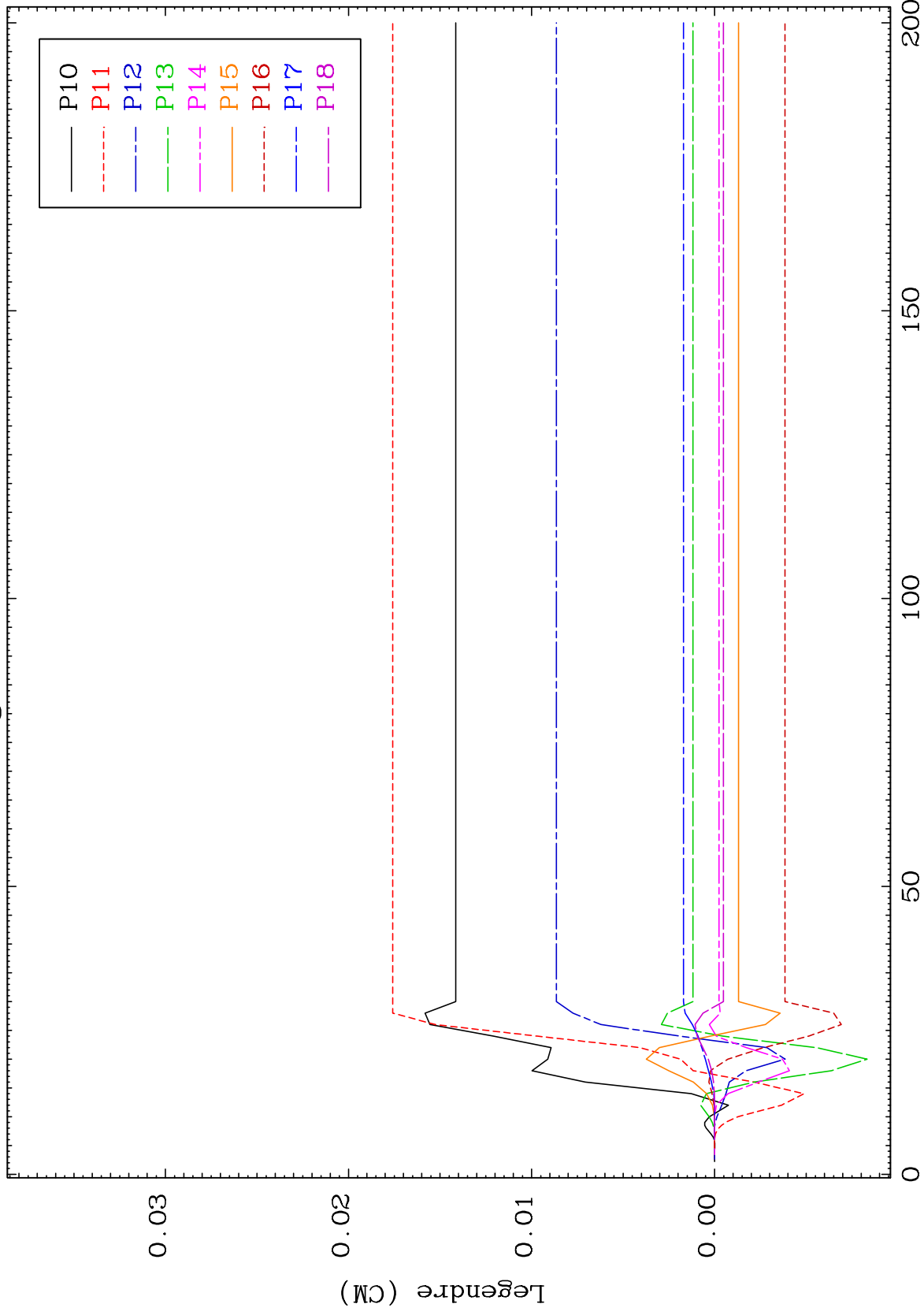




MAT 6019

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

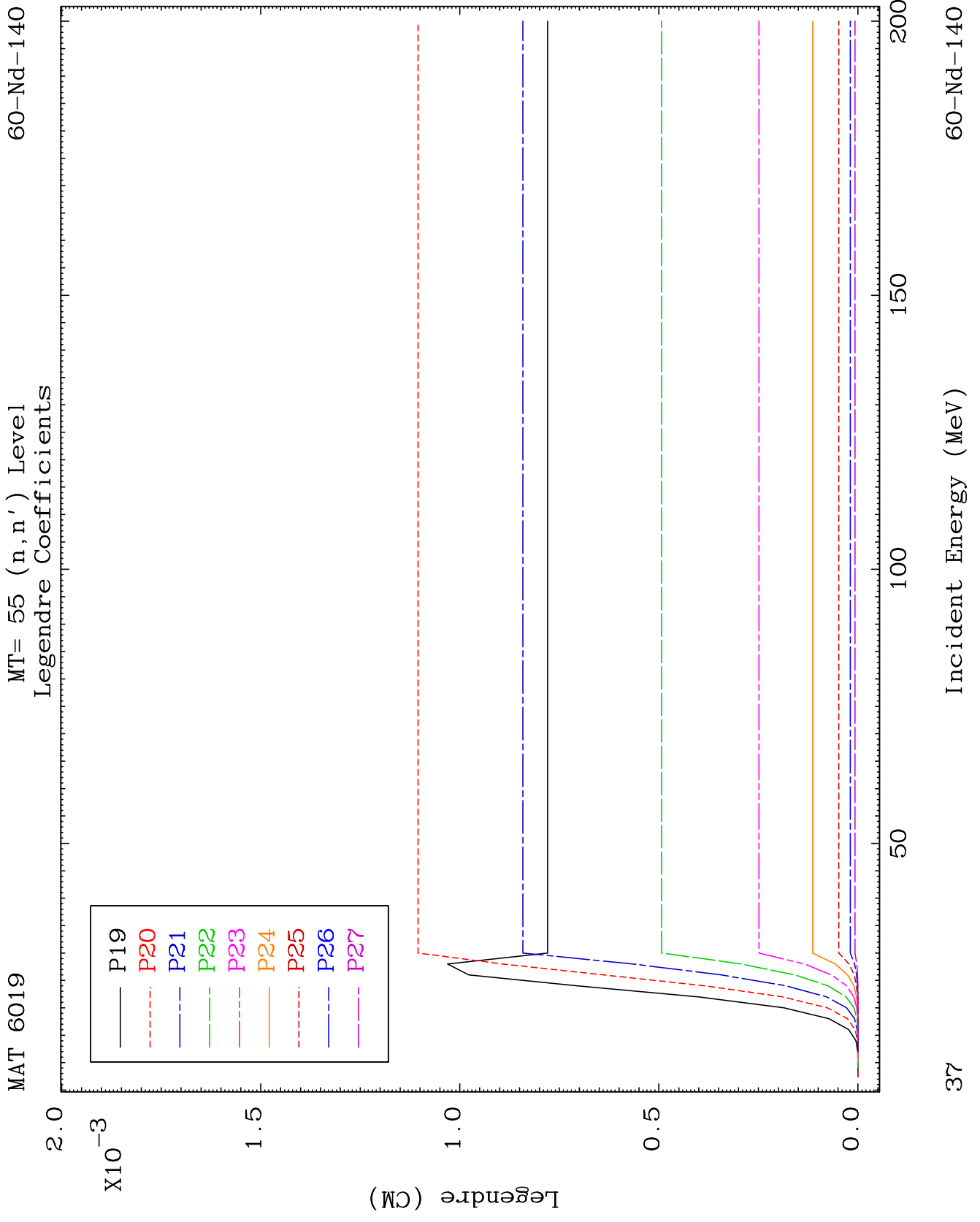
60-Nd-140

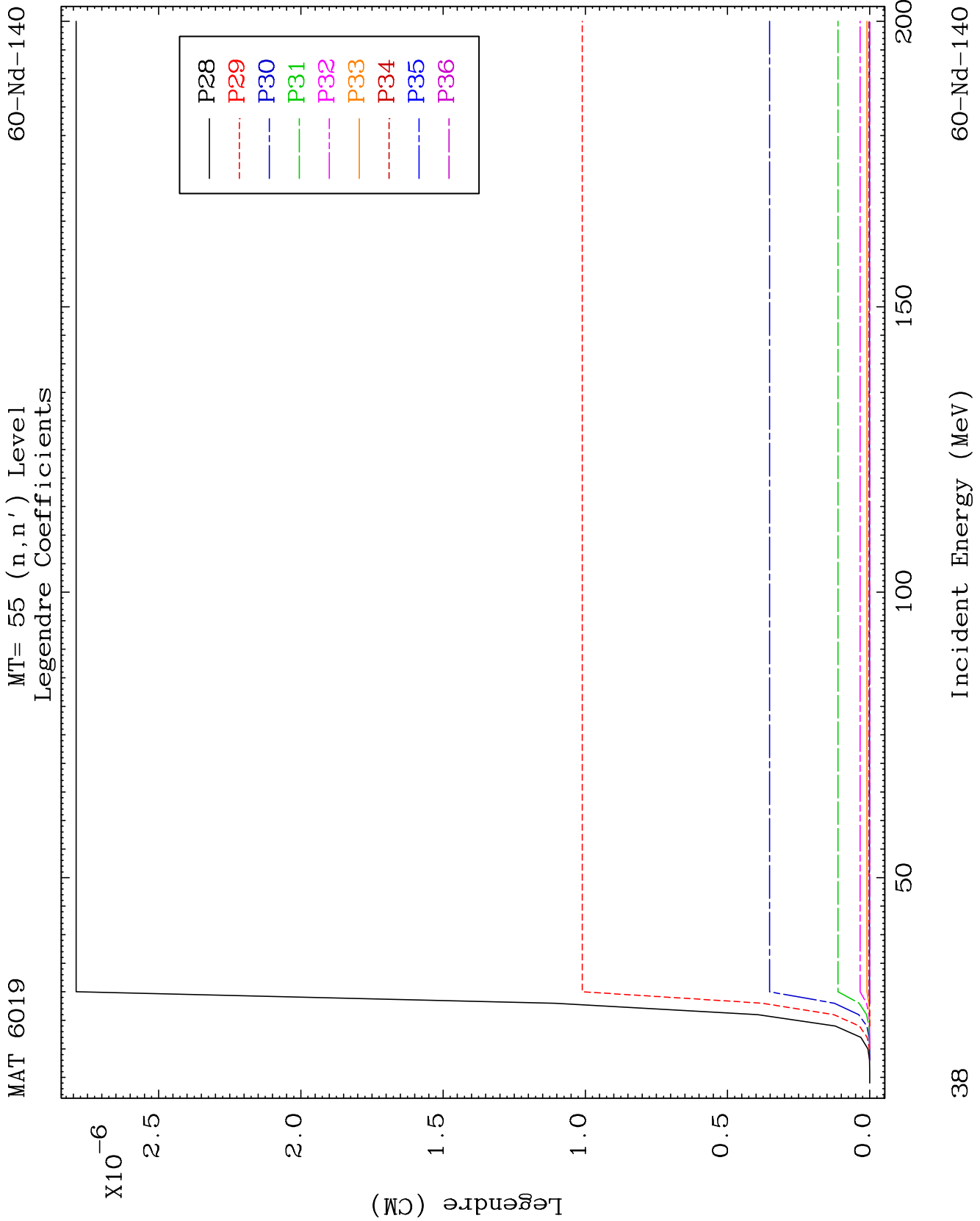


36

Incident Energy (MeV)

60-Nd-140

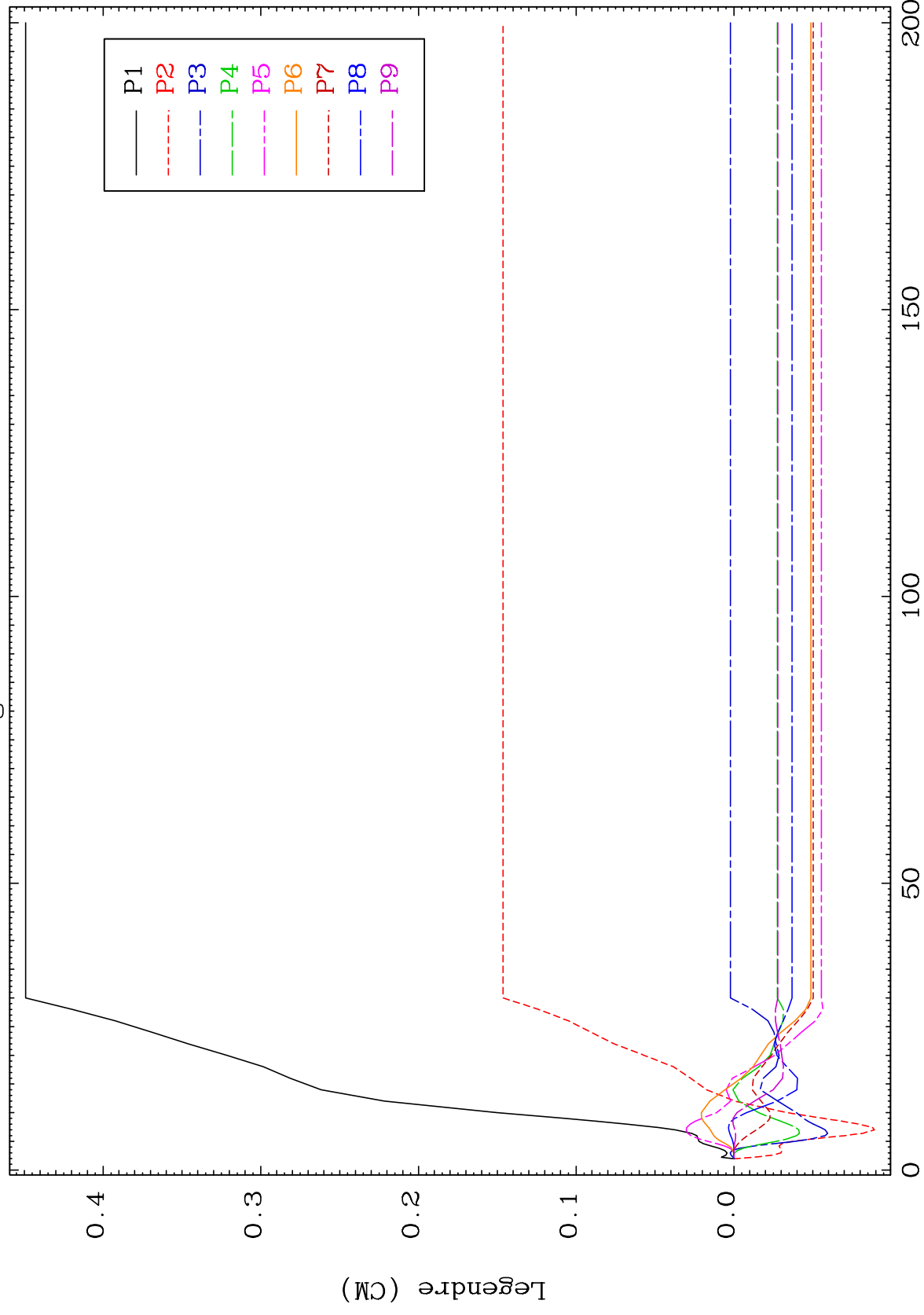




MAT 6019

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

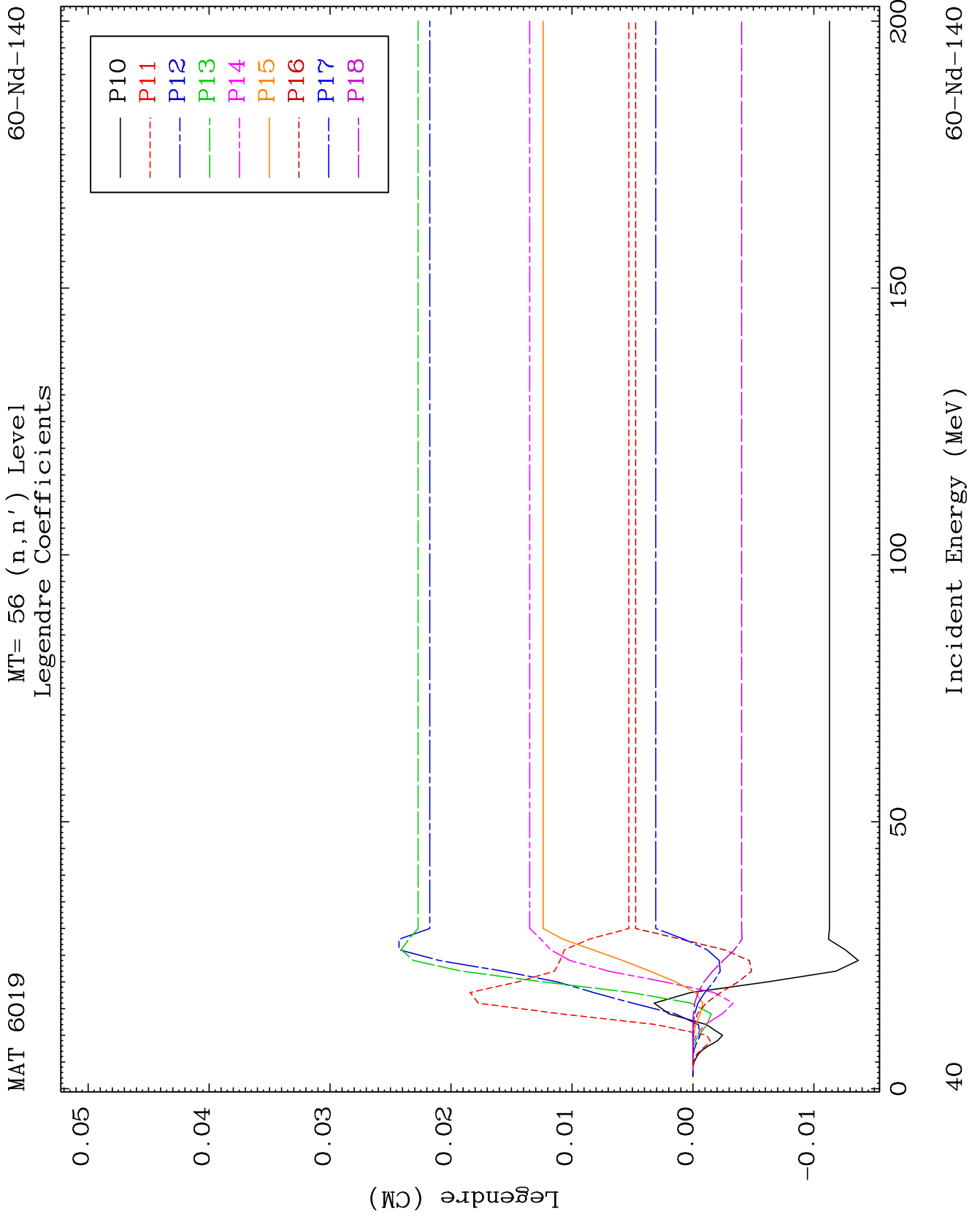
60-Nd-140



60-Nd-140

Incident Energy (MeV)

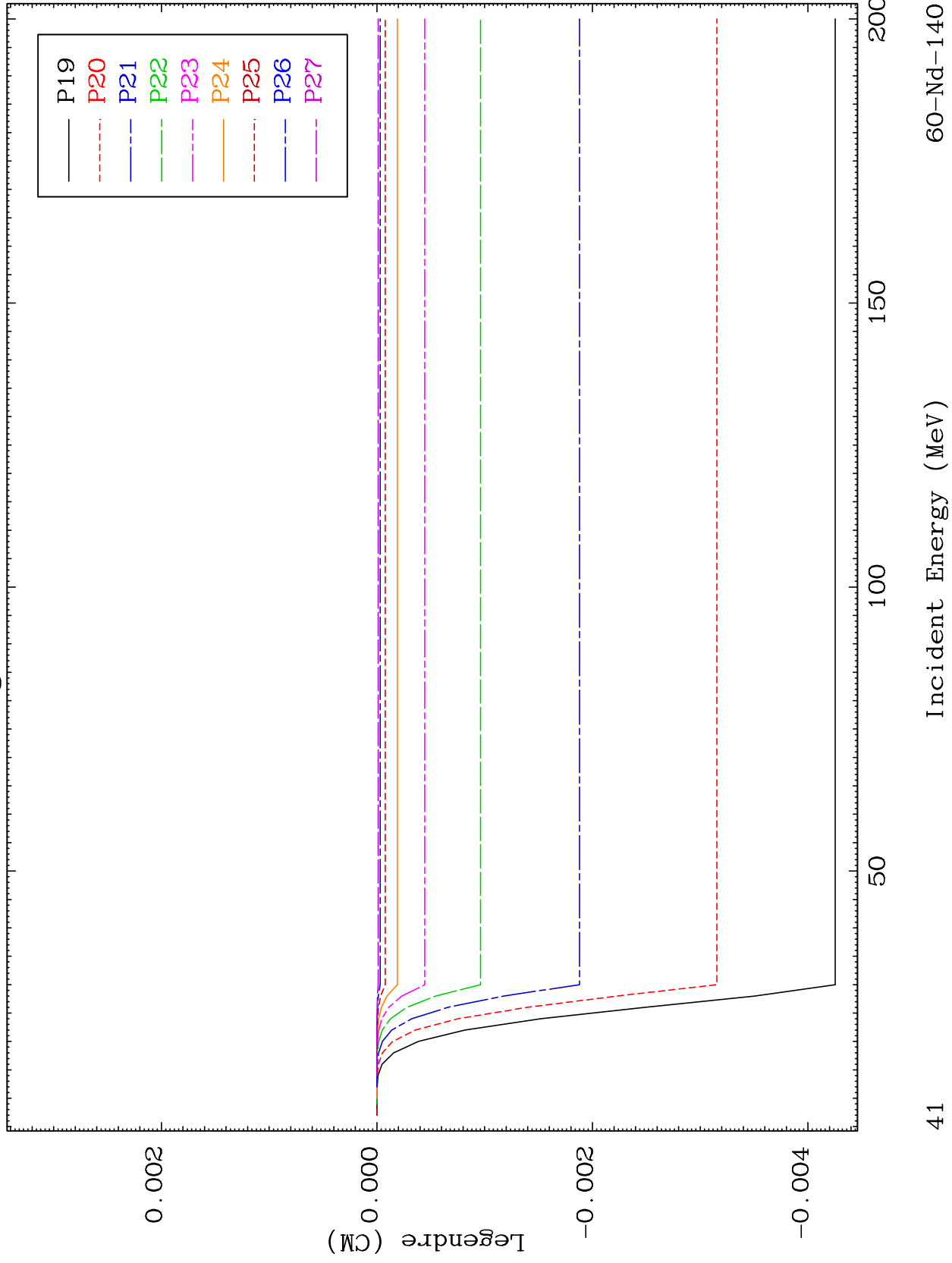
39



MAT 6019

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

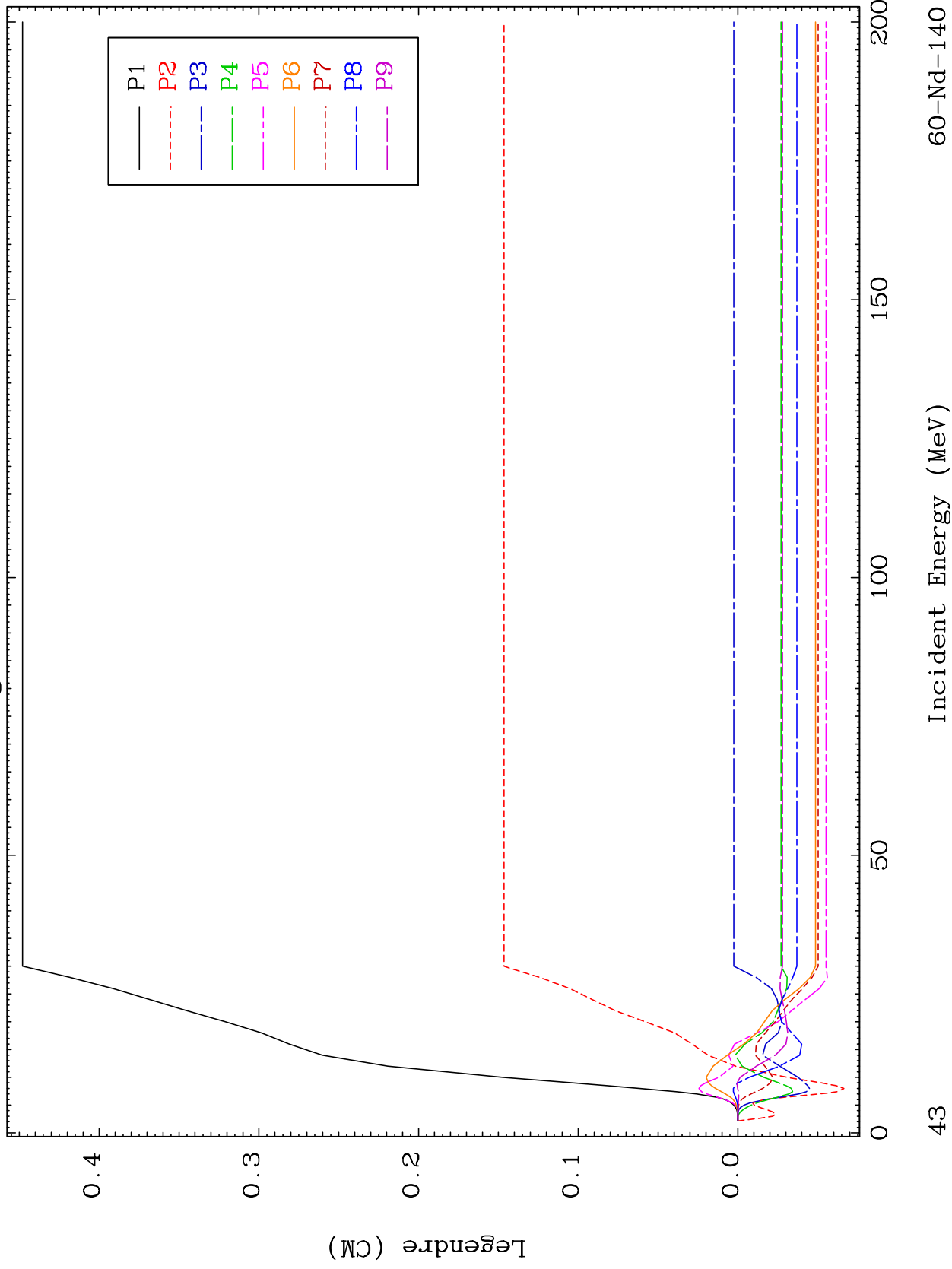
60-Nd-140



MAT 6019

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

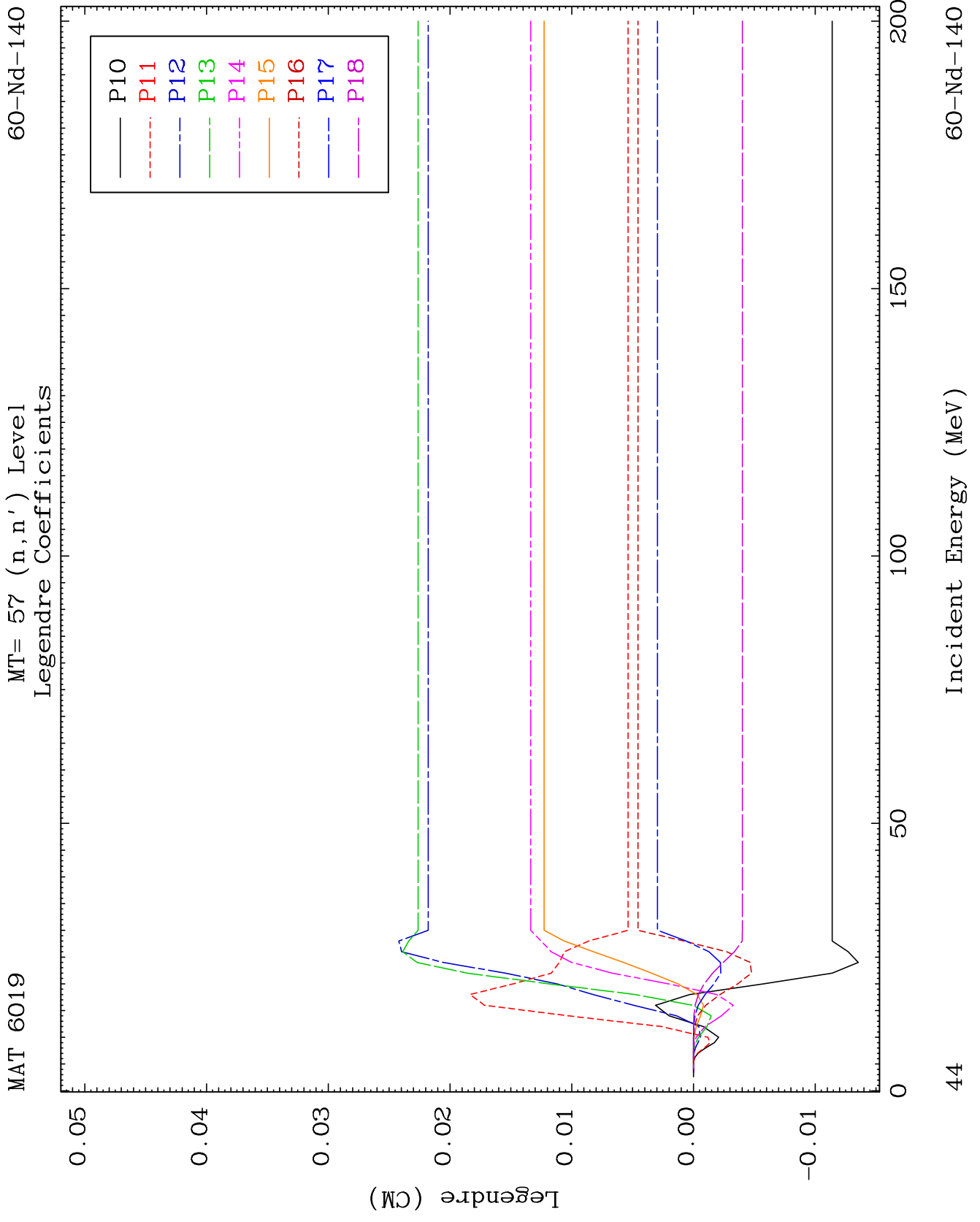
60-Nd-140

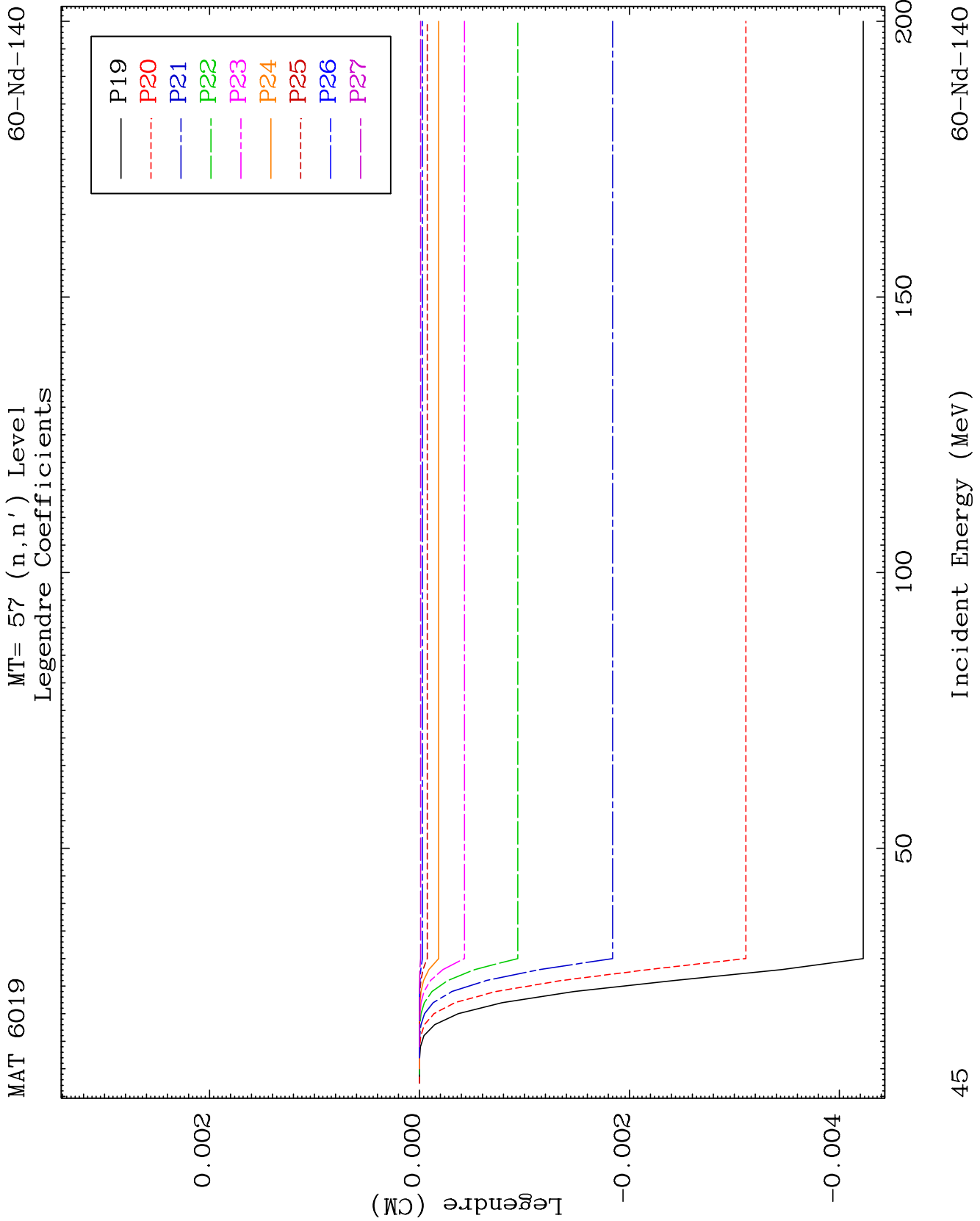


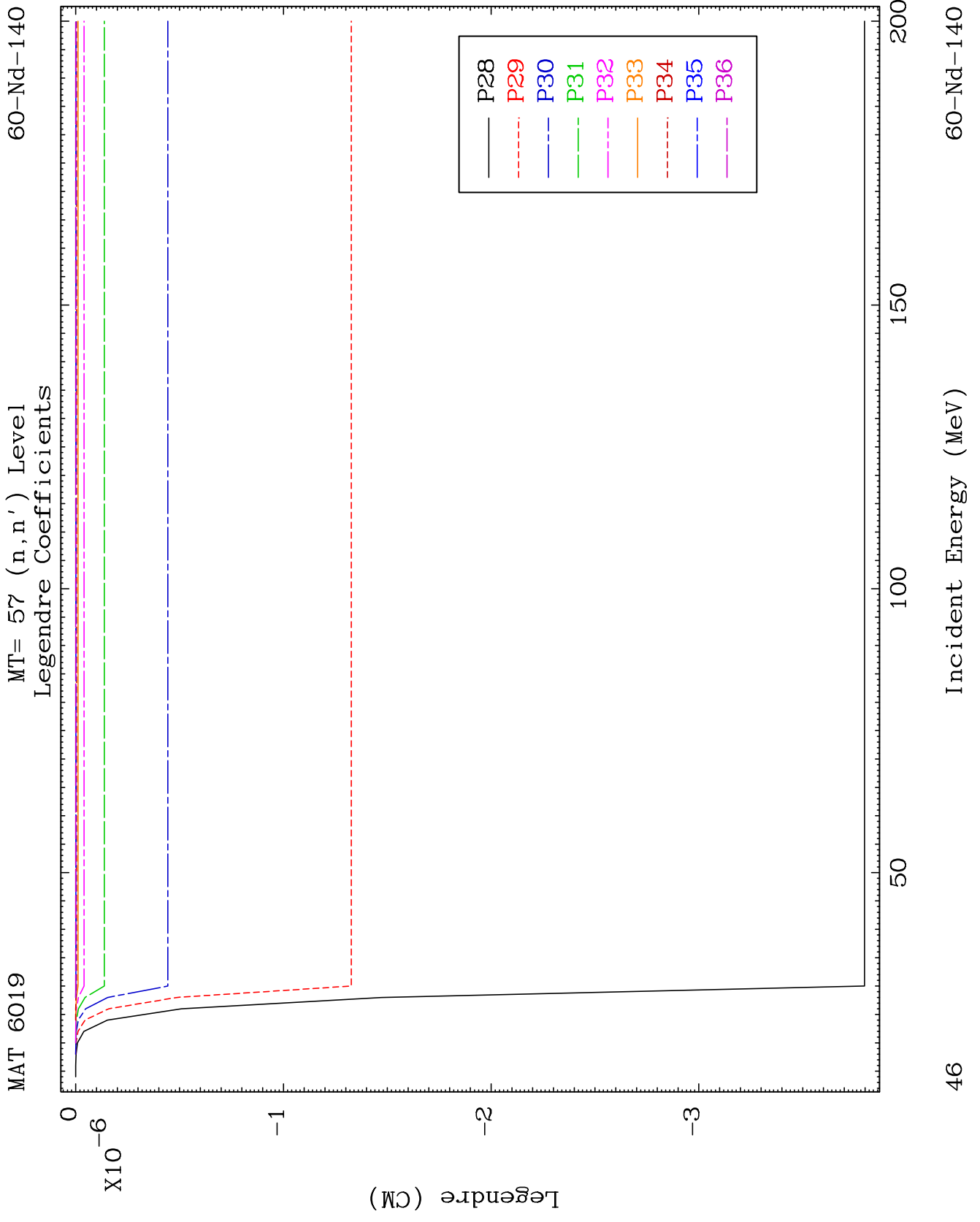
60-Nd-140

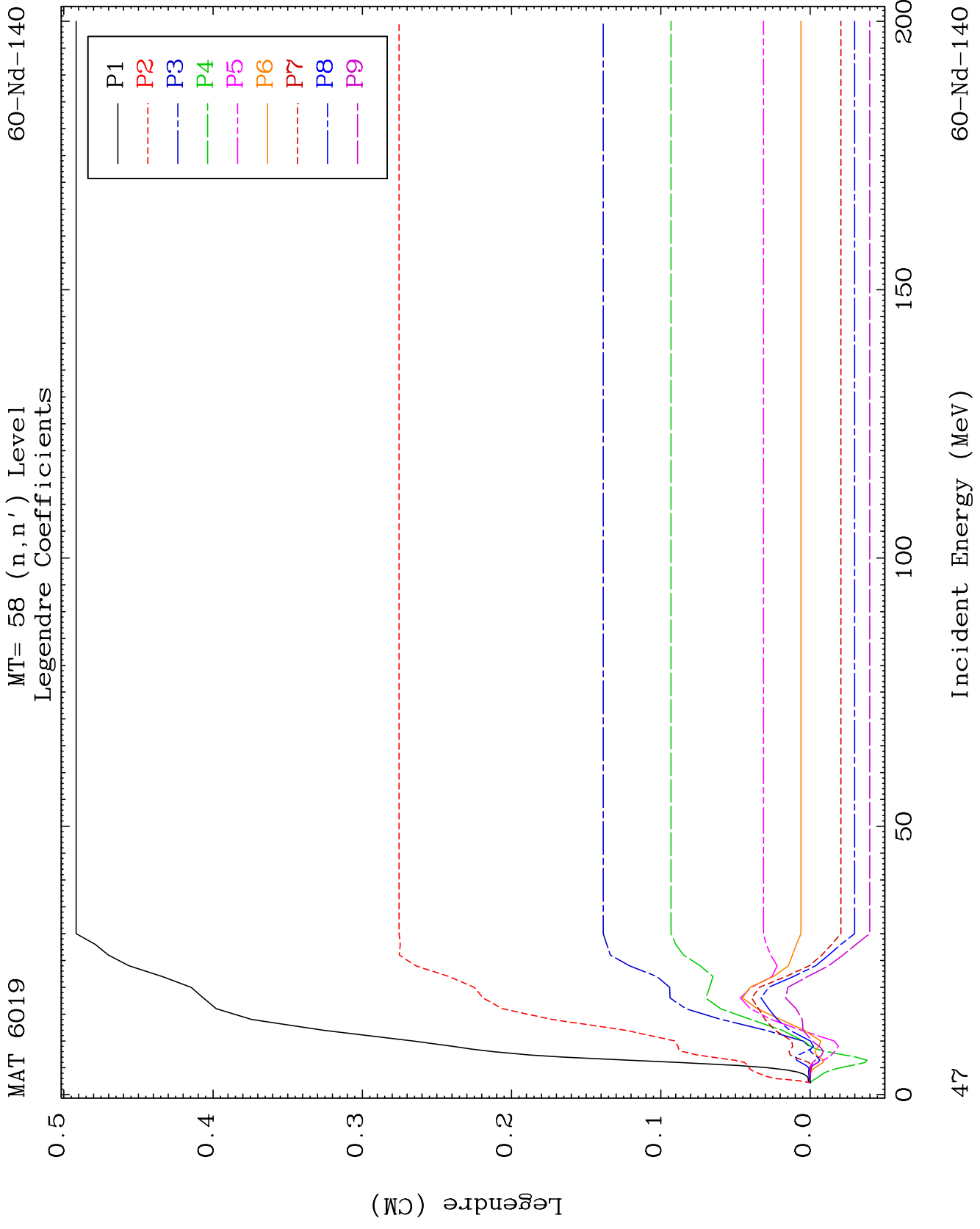
Incident Energy (MeV)

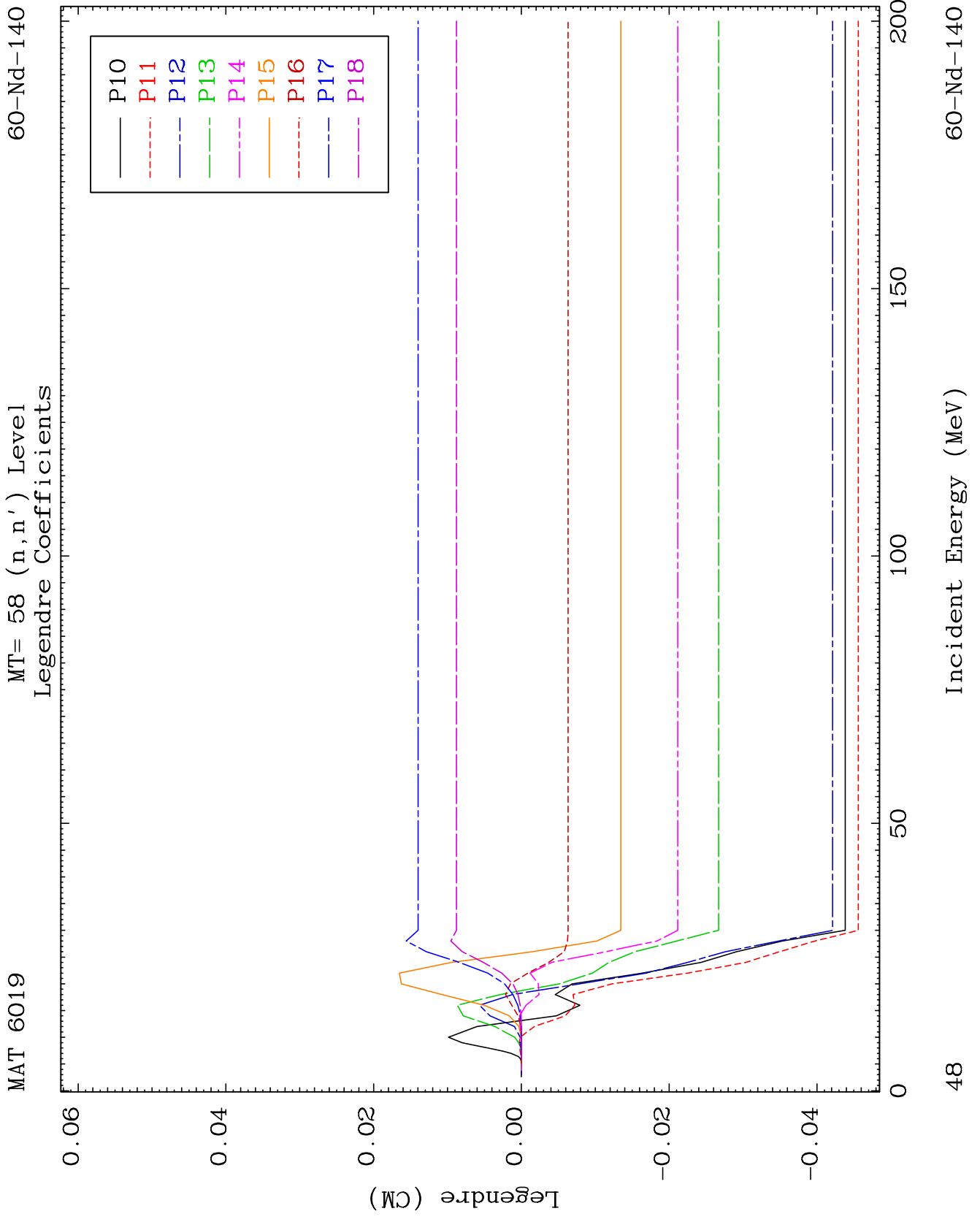
43







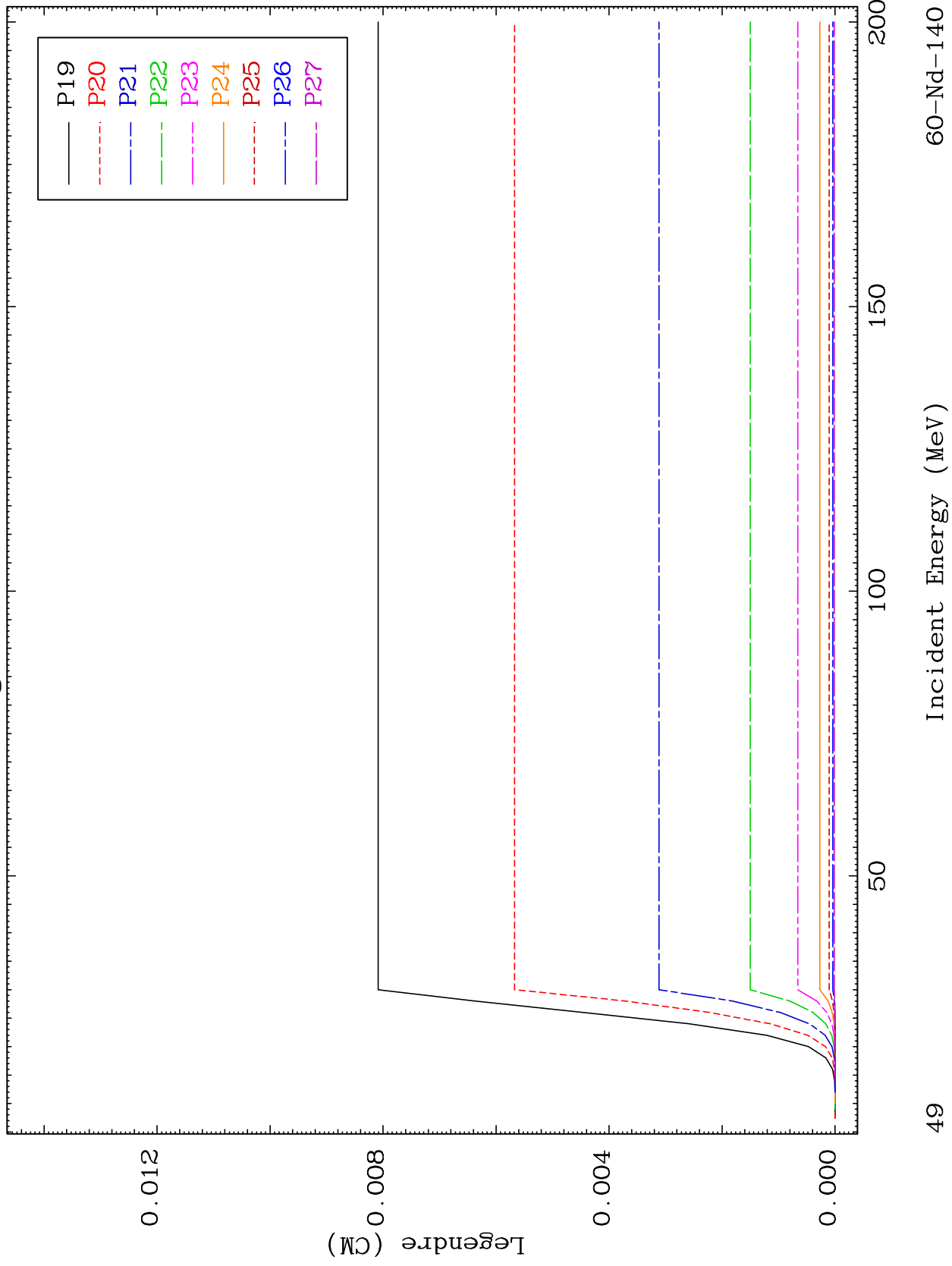




MAT 6019

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

60-Nd-140



49

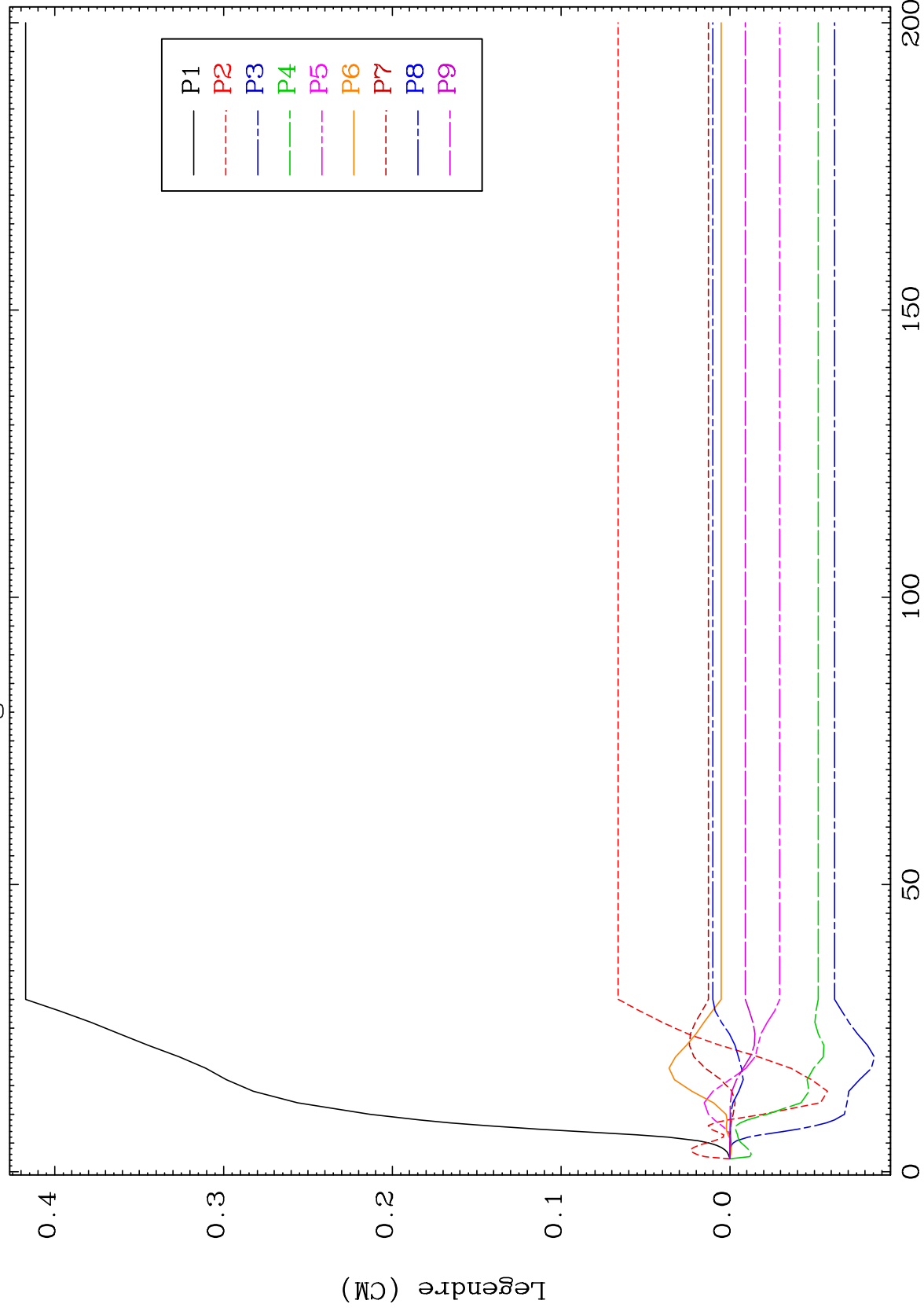
Incident Energy (MeV)

60-Nd-140

MAT 6019

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

60-Nd-140



60-Nd-140

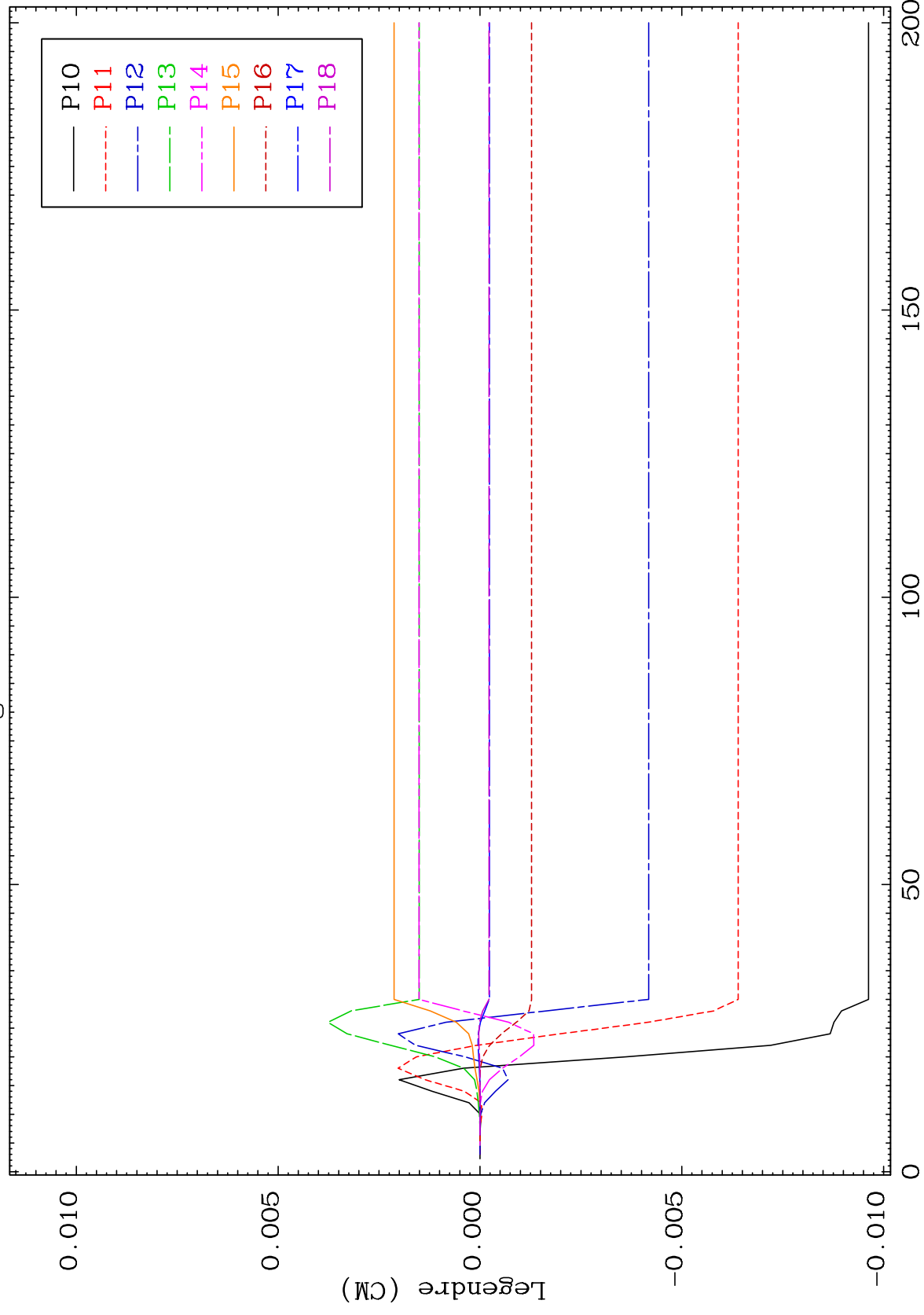
Incident Energy (MeV)

51

MAT 6019

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

60-Nd-140



52

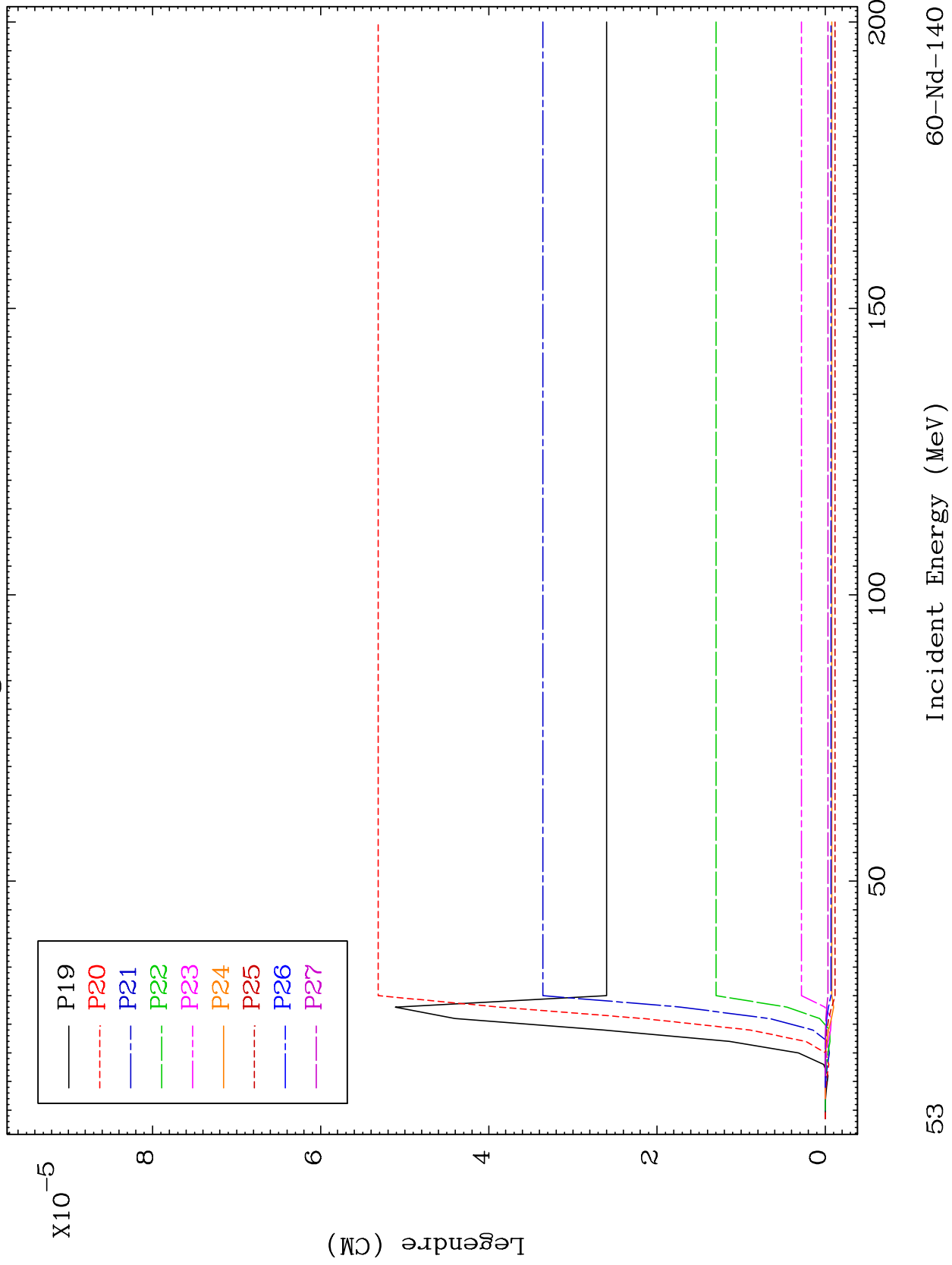
Incident Energy (MeV)

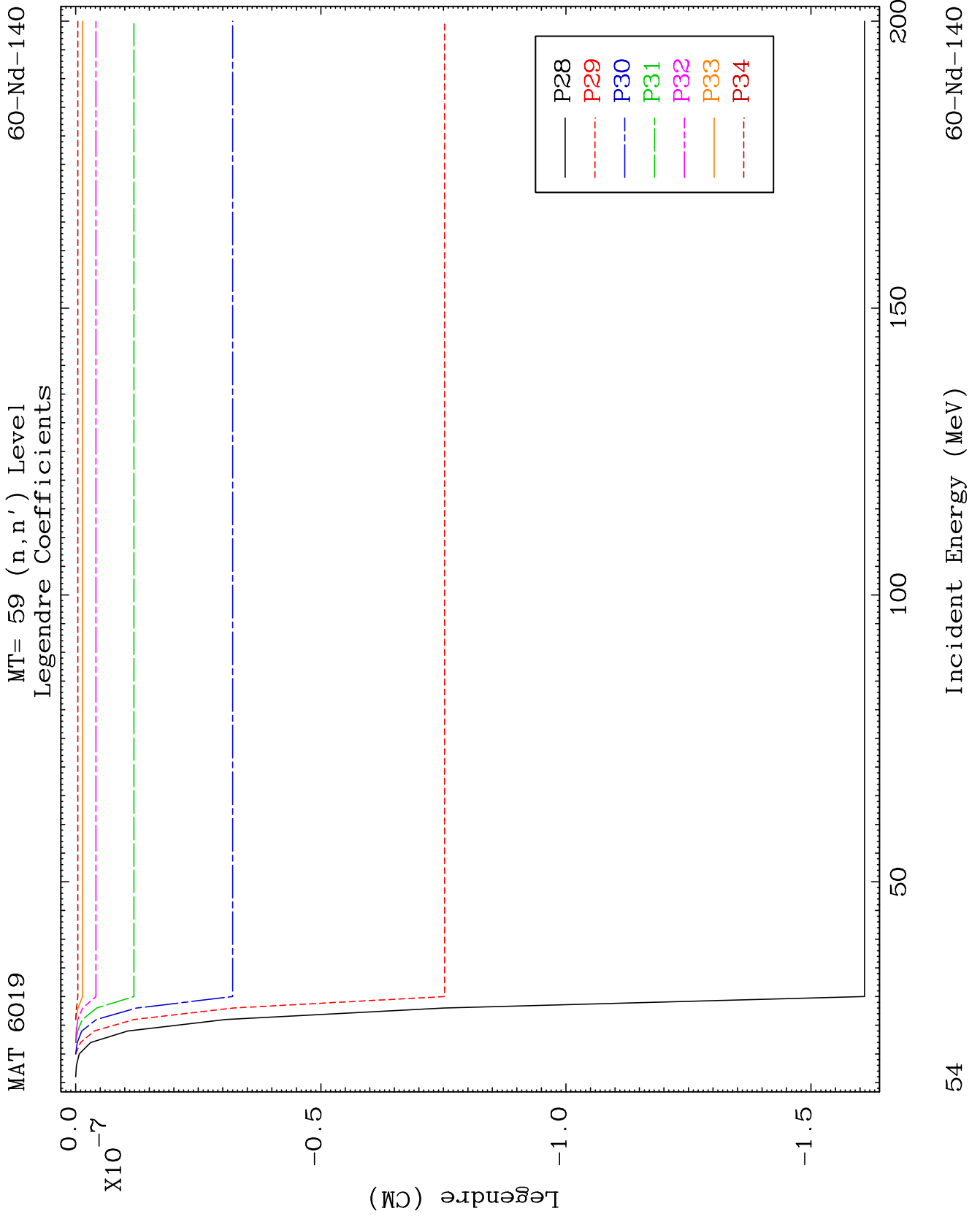
60-Nd-140

MAT 6019

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

60-Nd-140

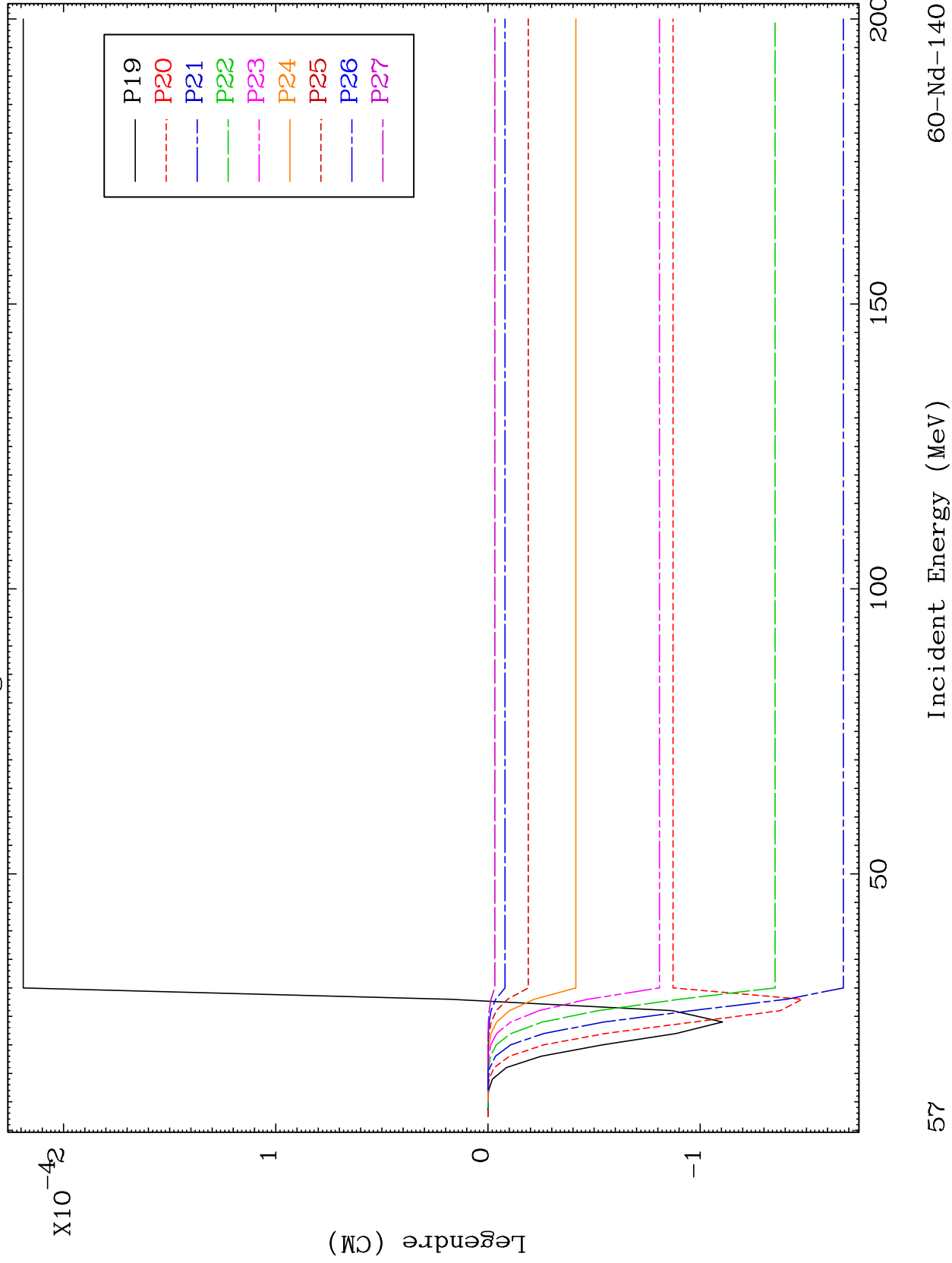


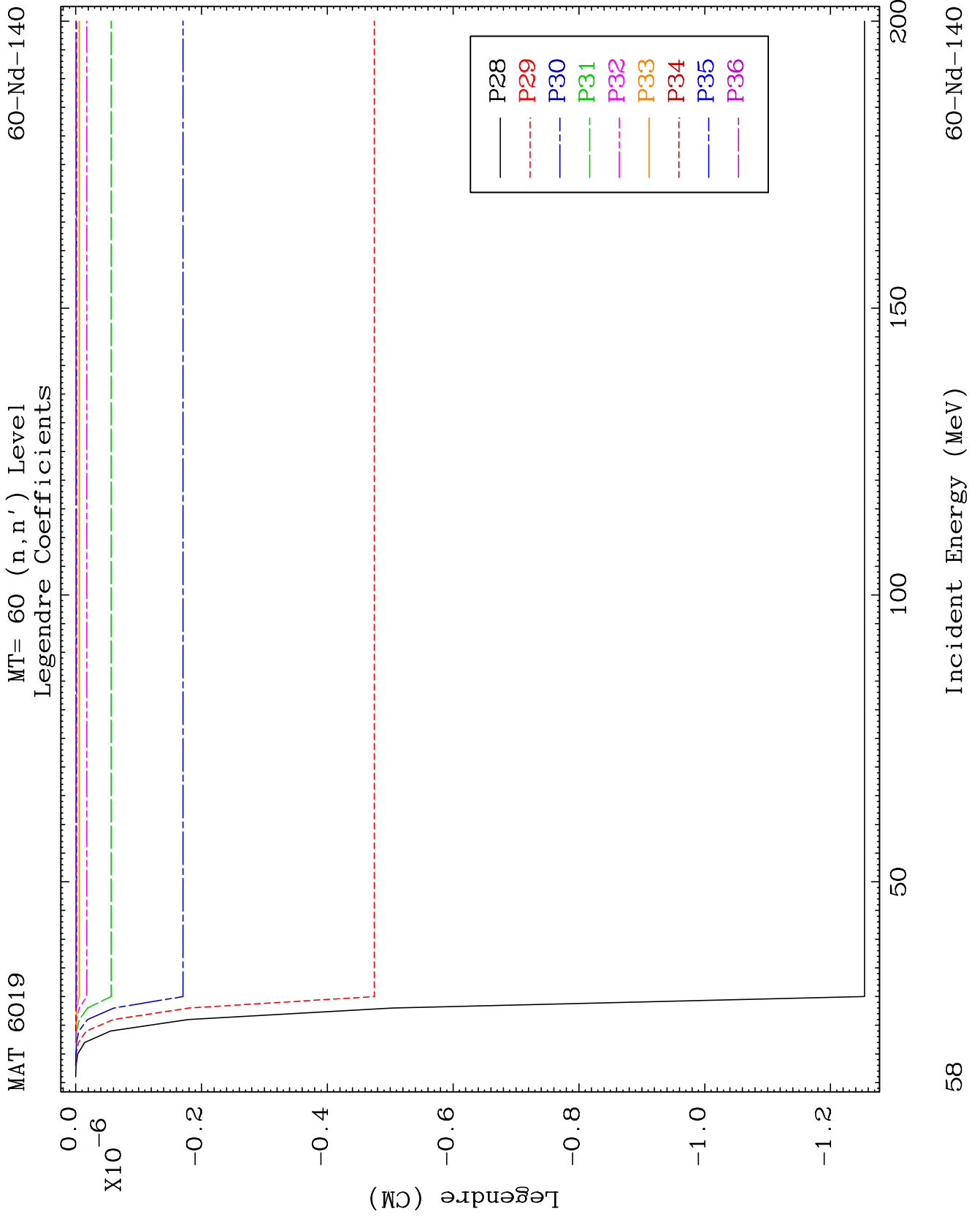


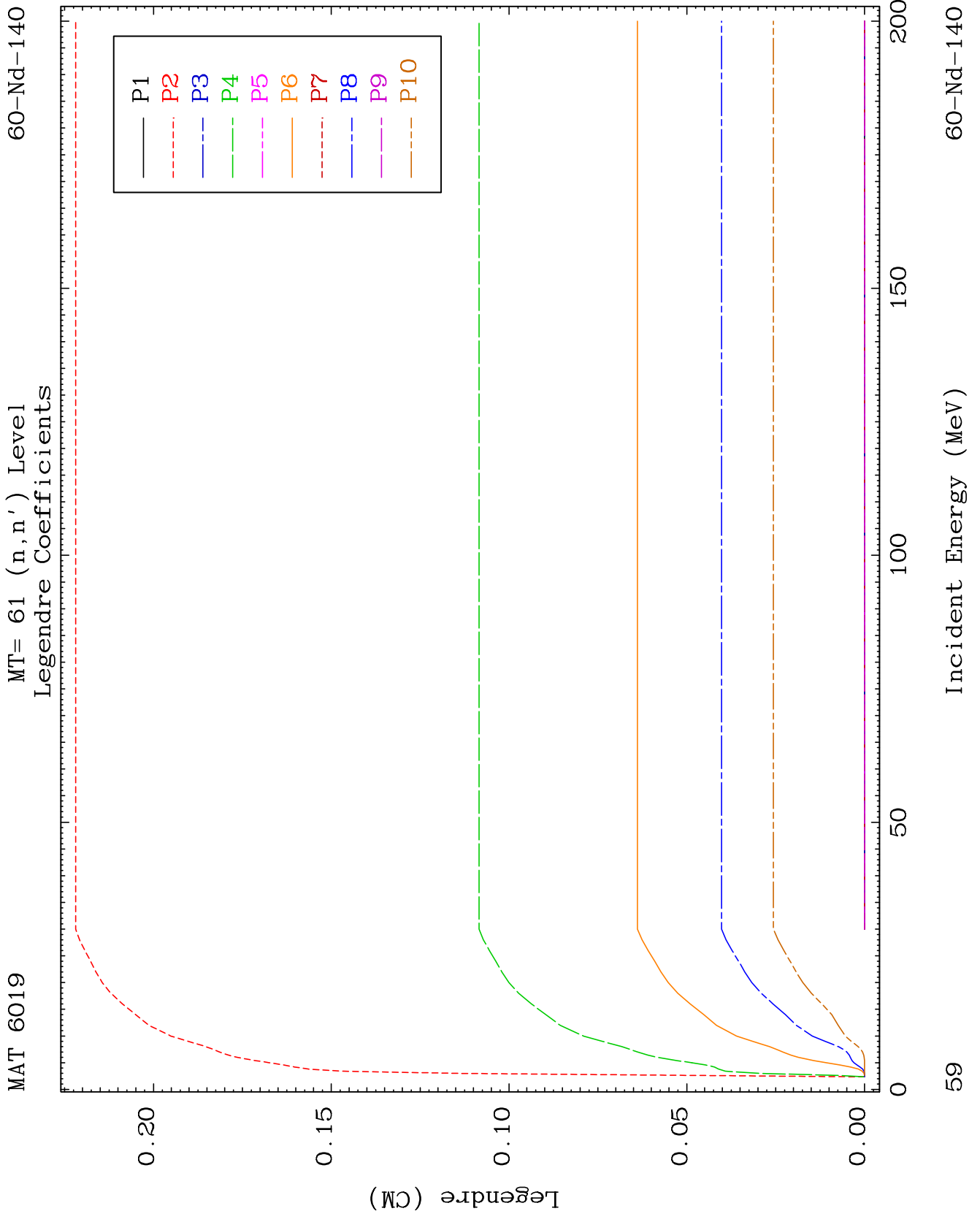
MAT 6019

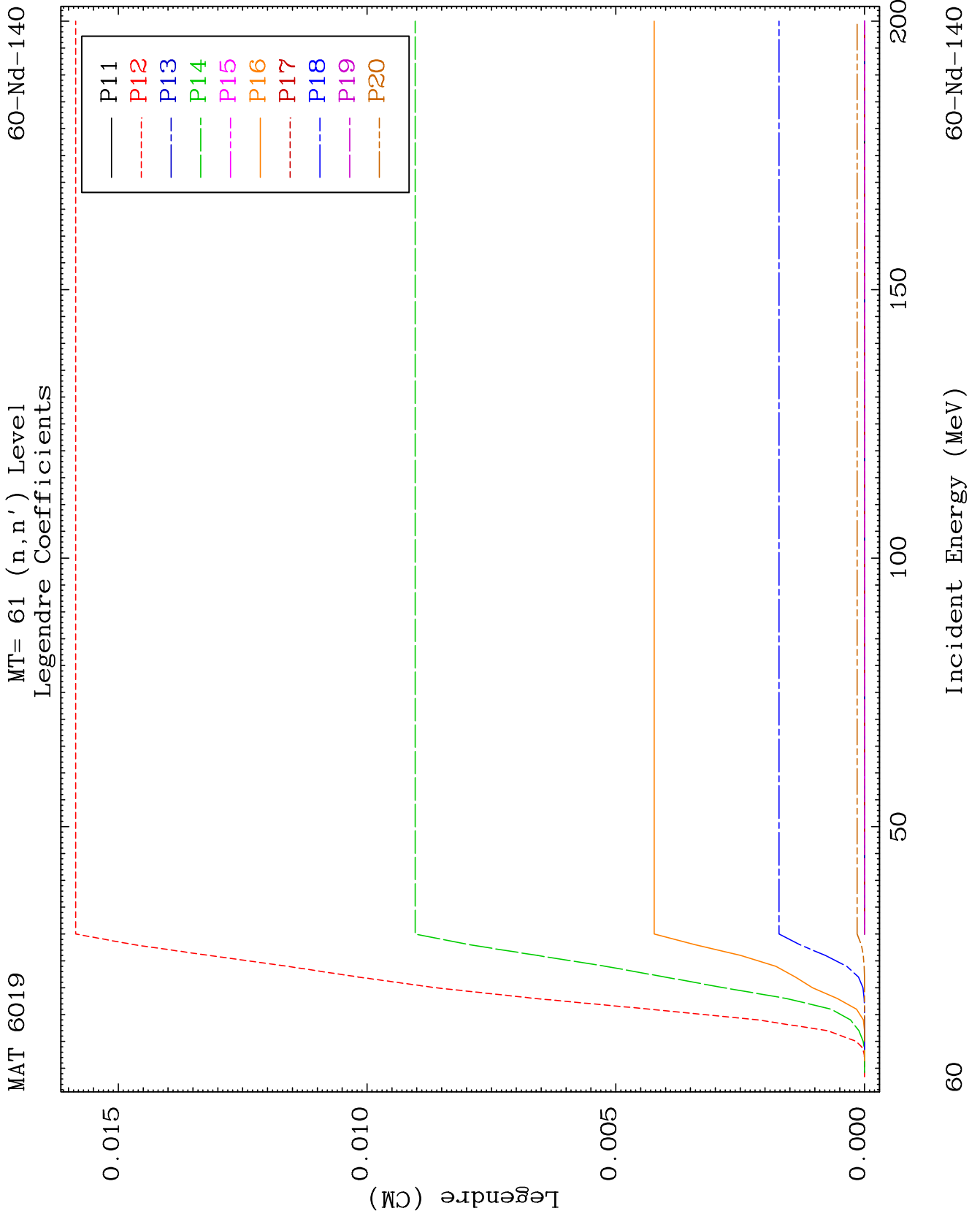
MT= 60 (n,n') Level
Legendre Coefficients

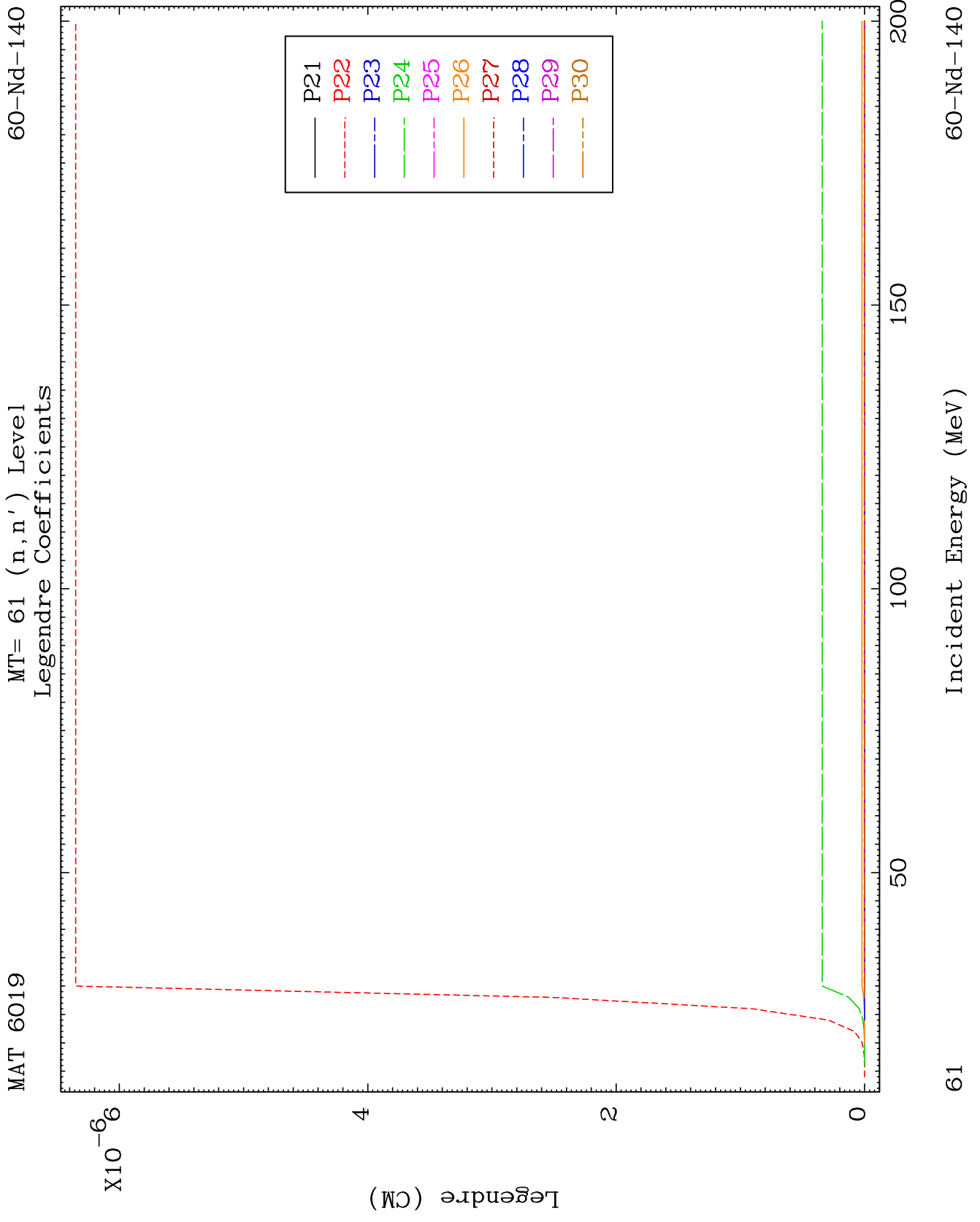
60-Nd-140

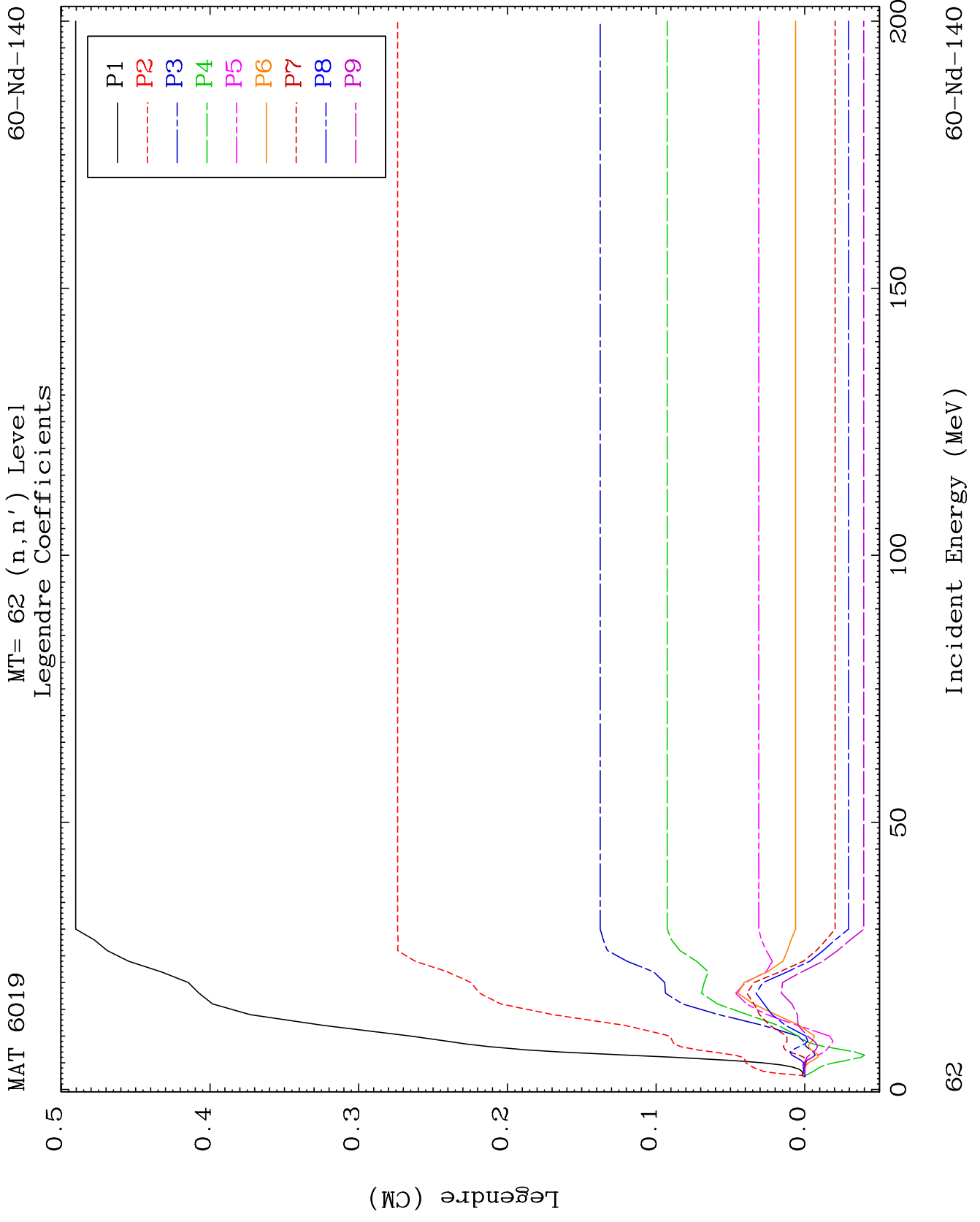


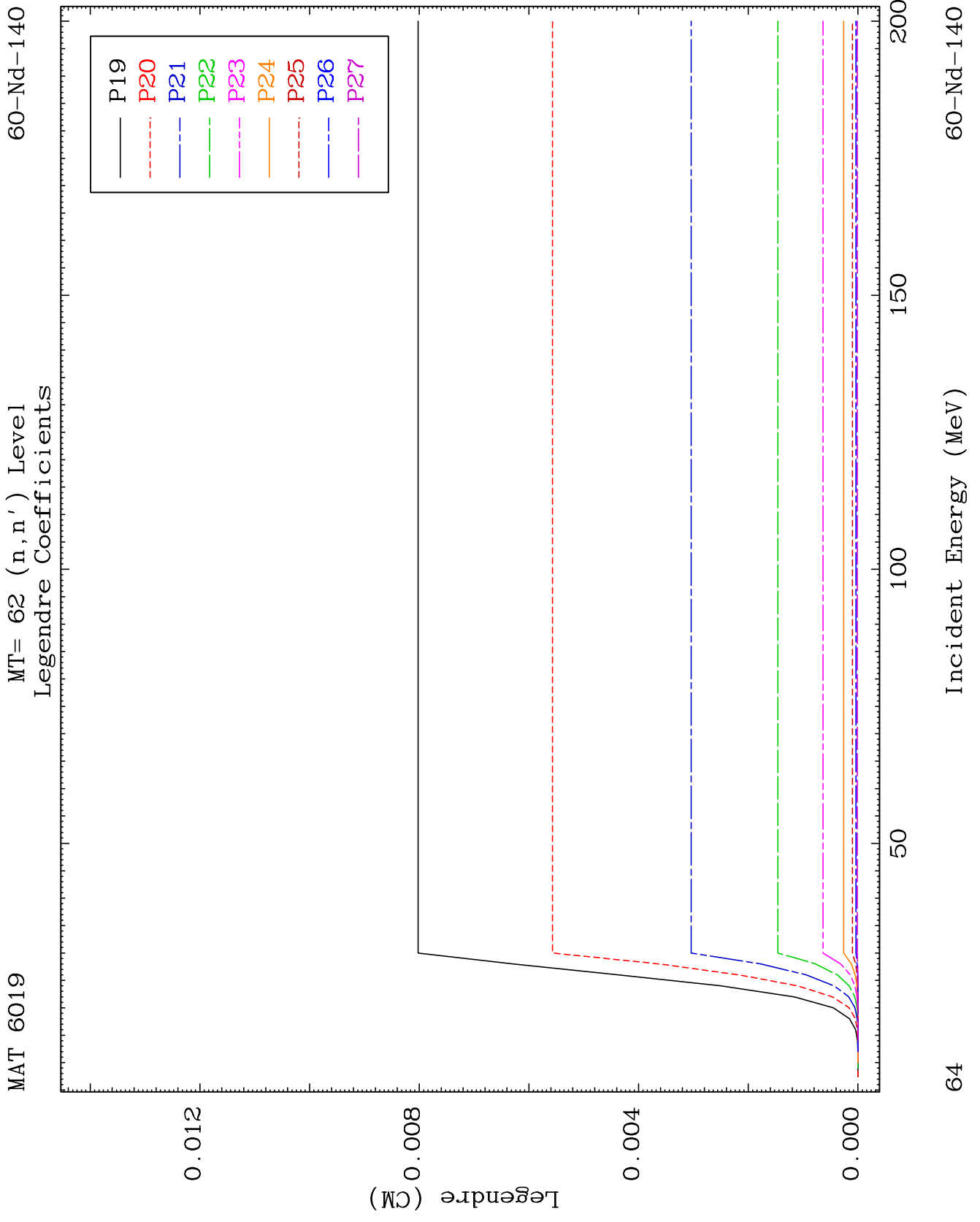


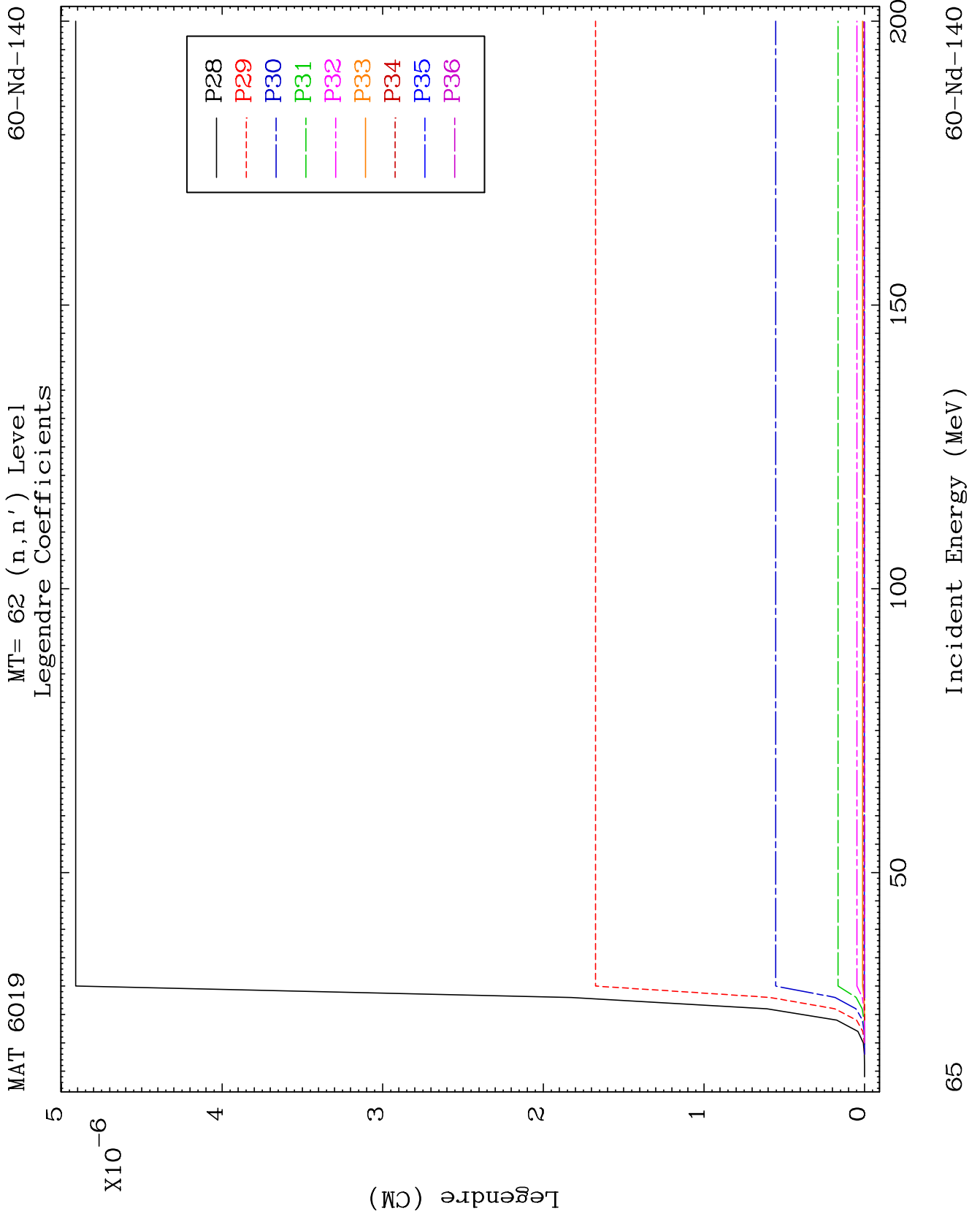


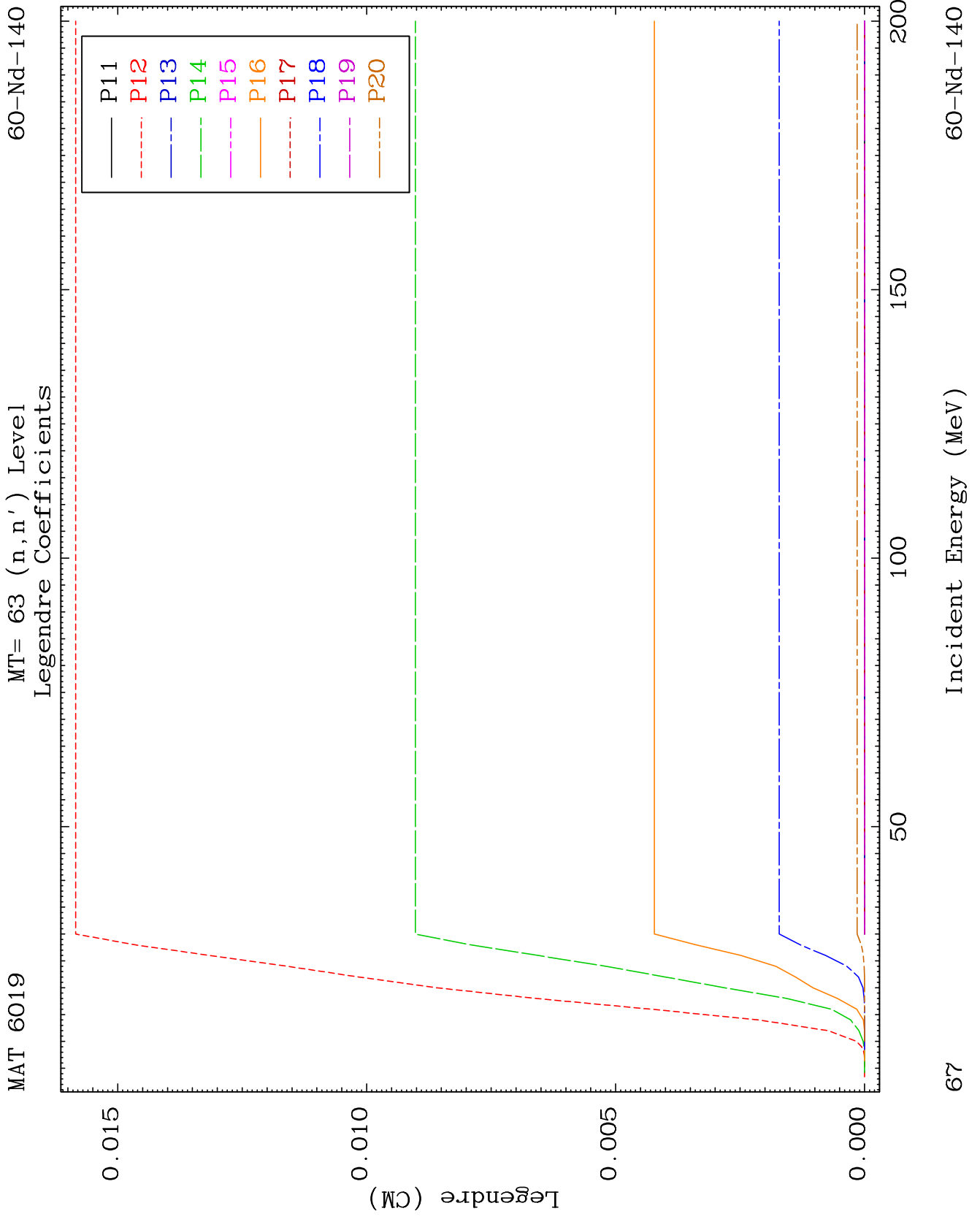


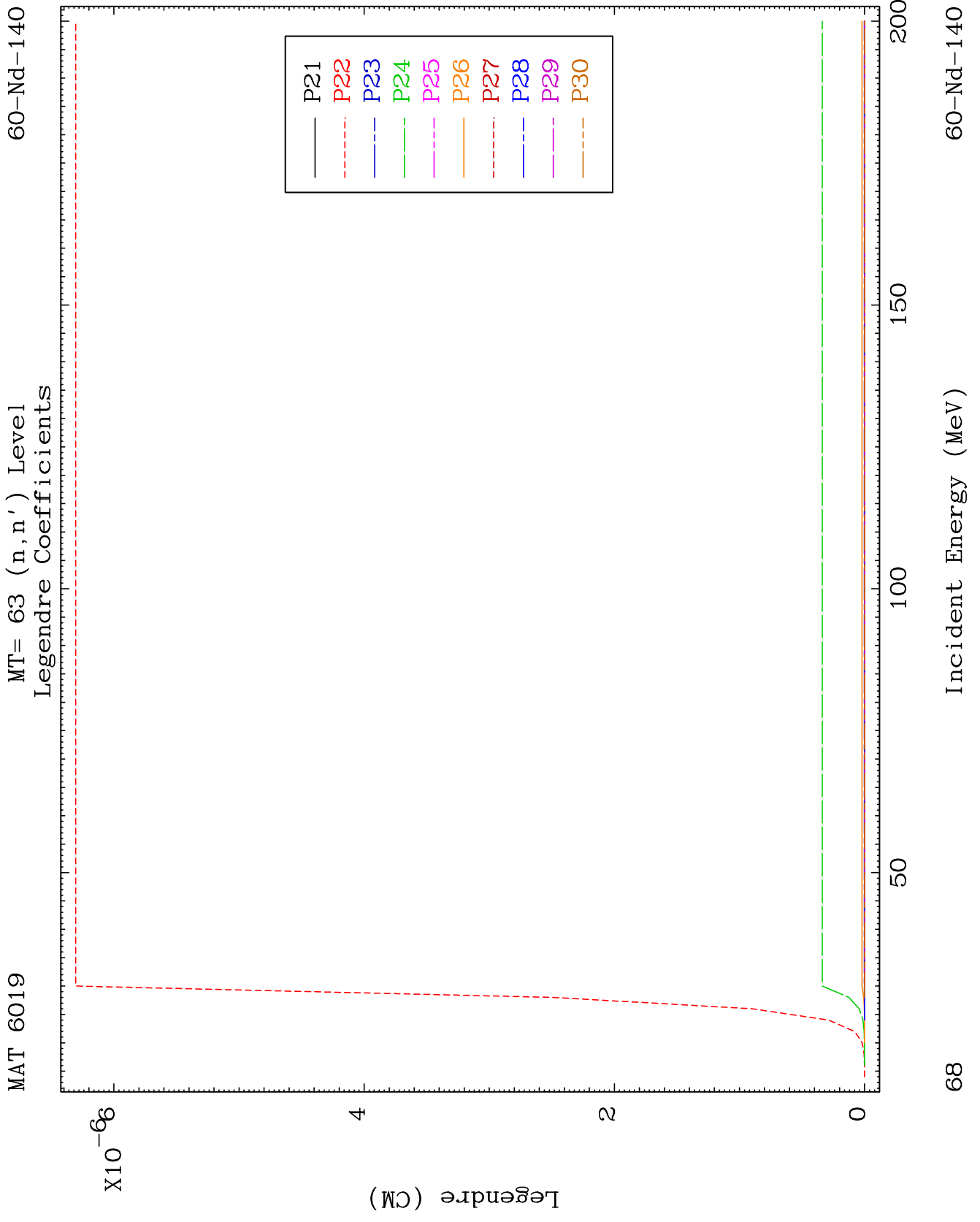


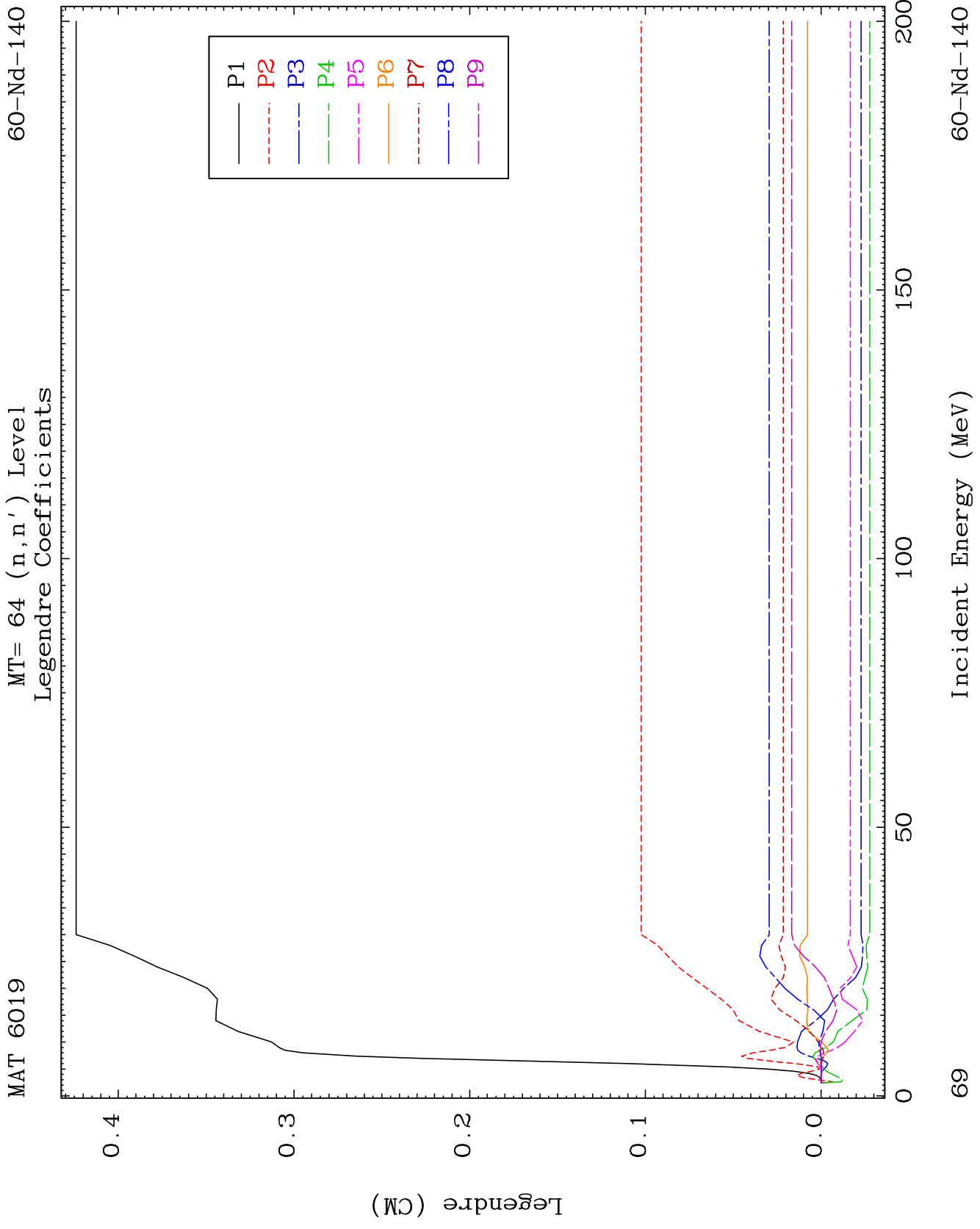








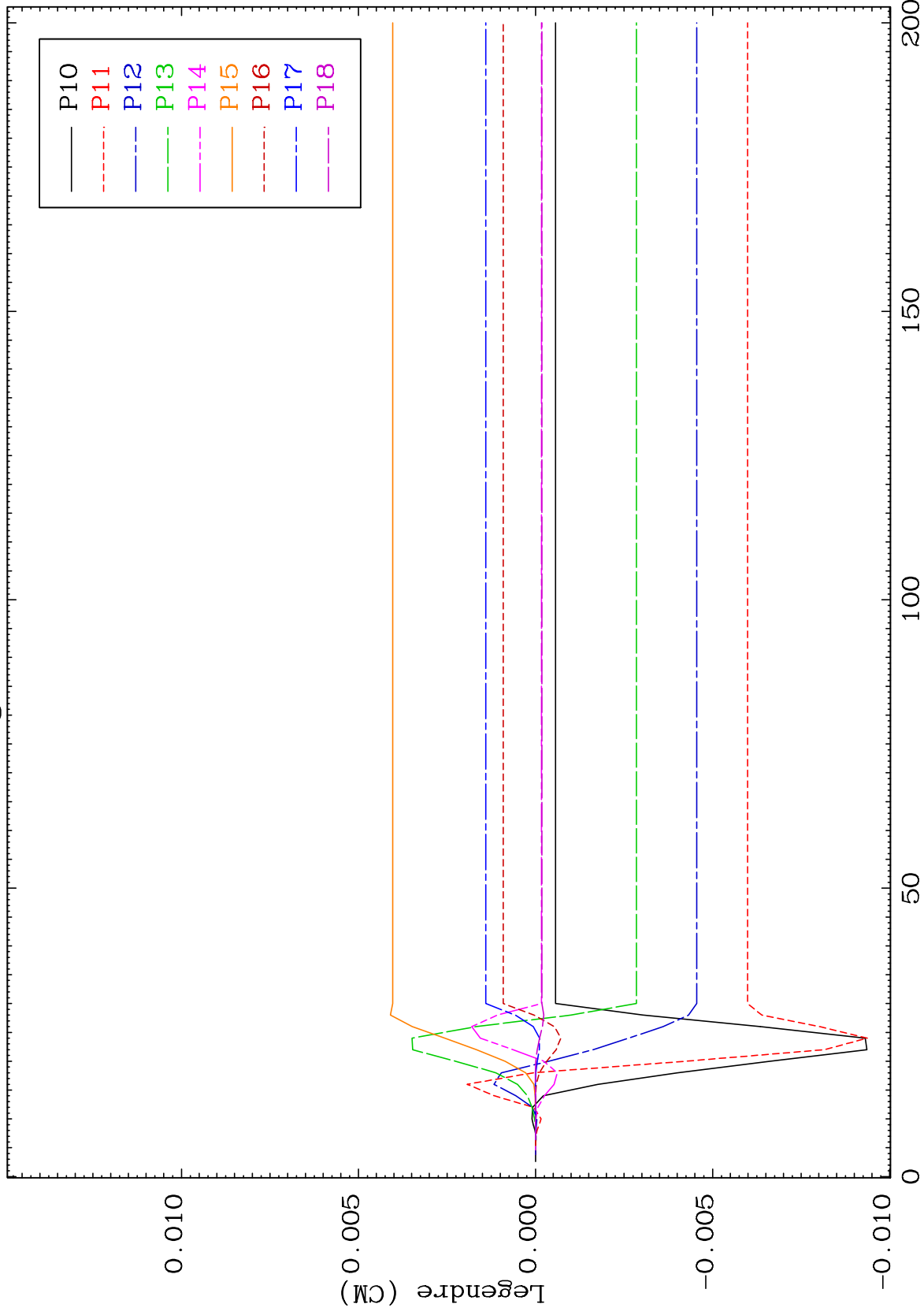




MAT 6019

MT= 64 (n,n') Level
Legendre Coefficients

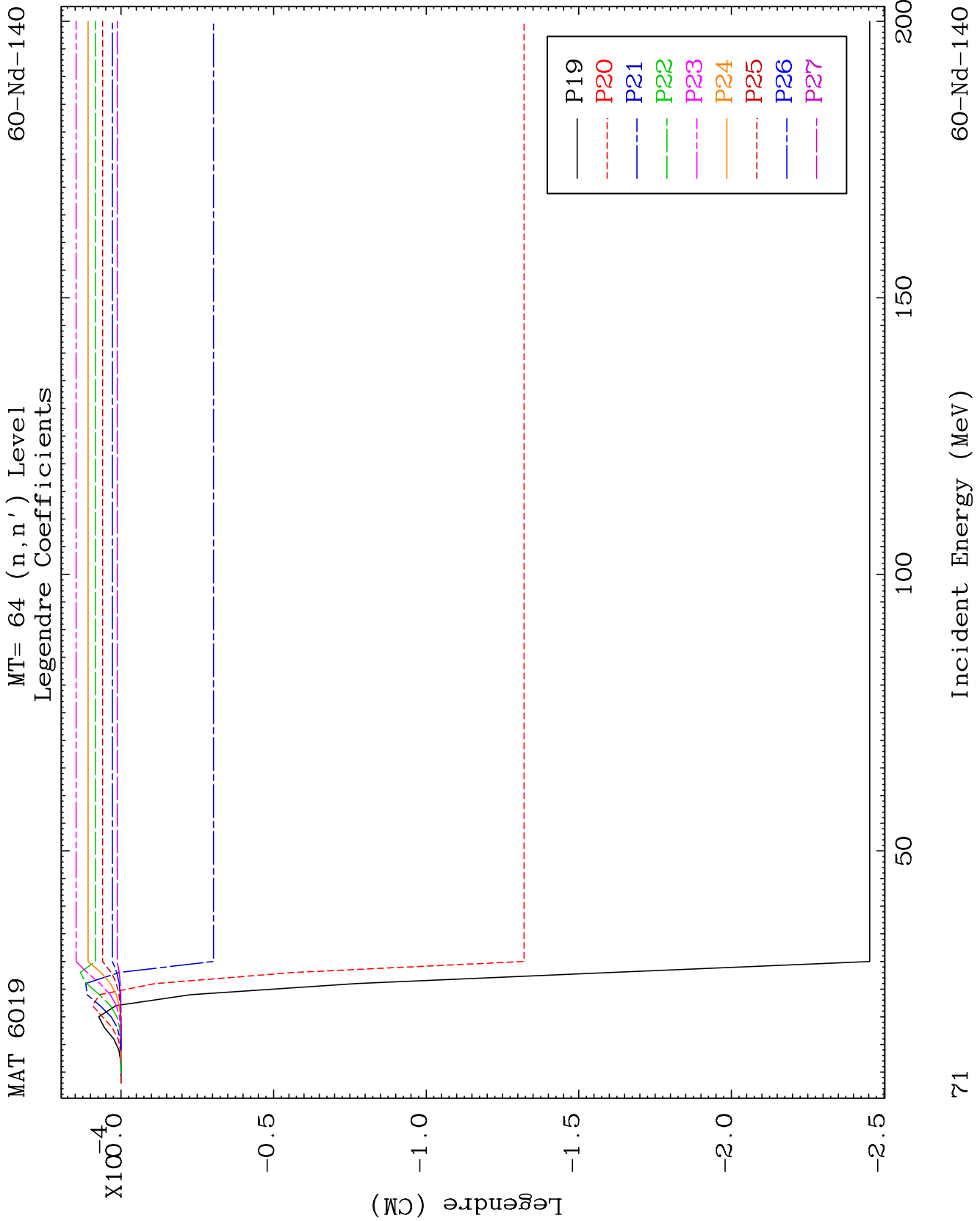
60-Nd-140



70

Incident Energy (MeV)

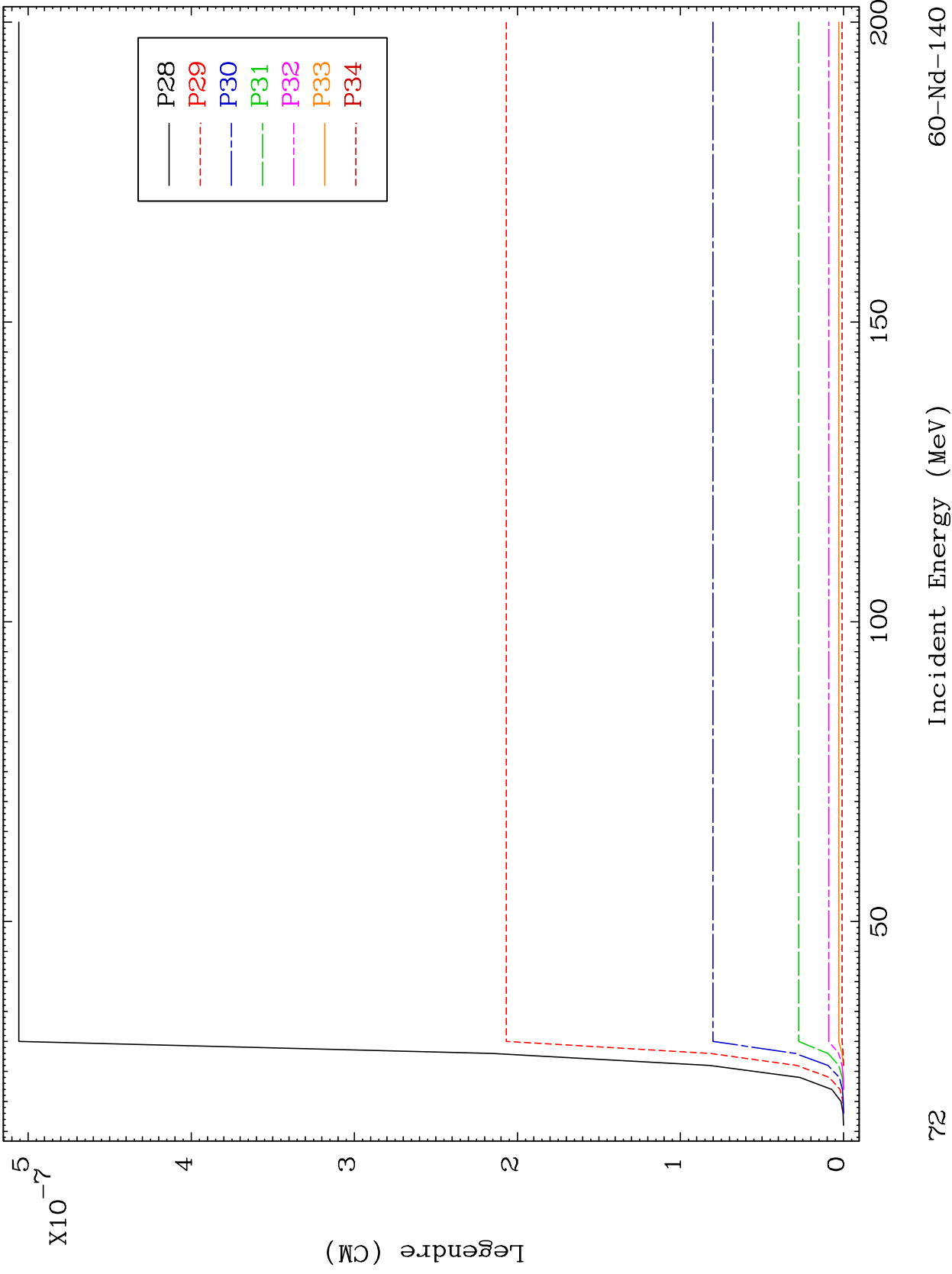
60-Nd-140

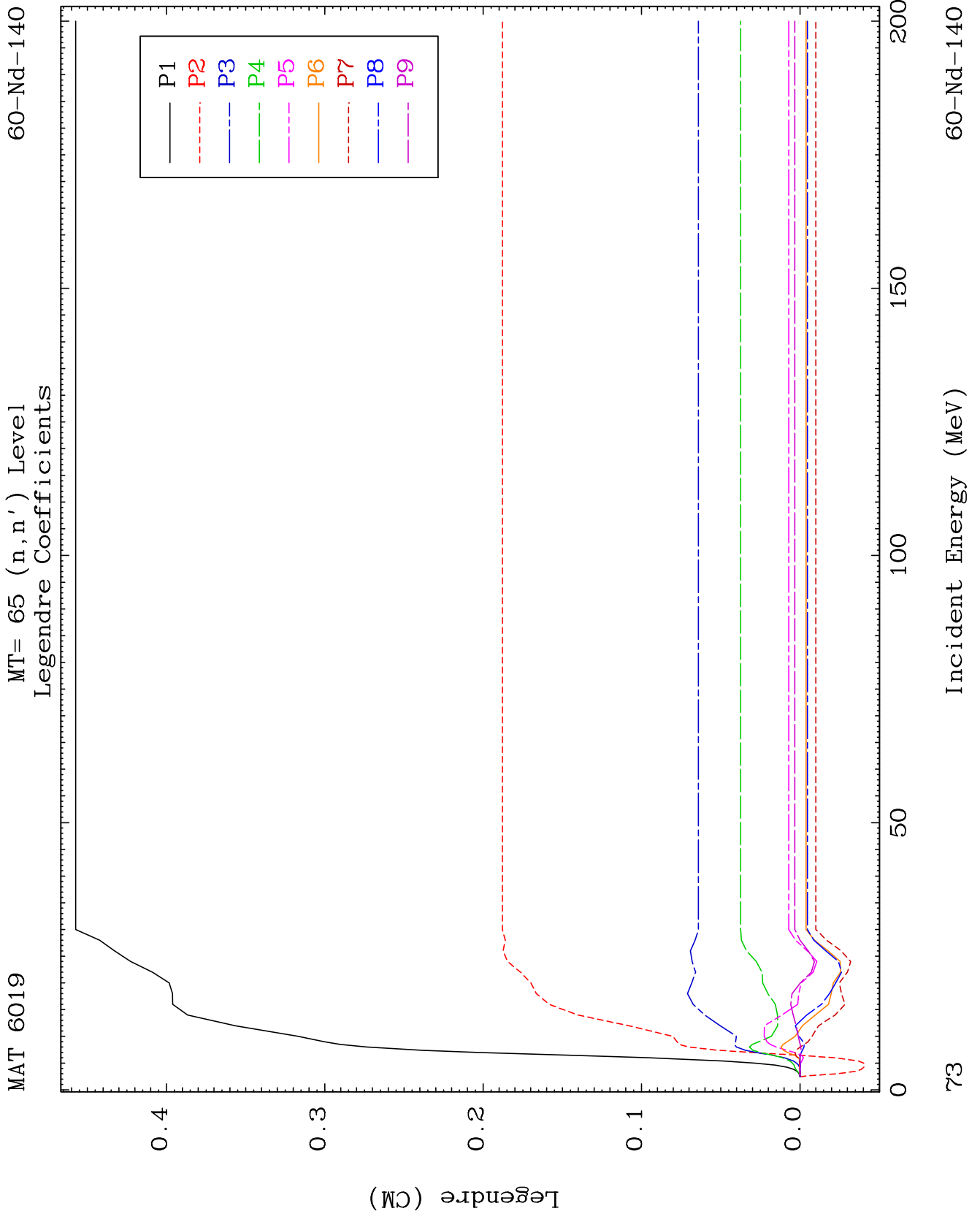


MAT 6019

MT= 64 (n,n') Level
Legendre Coefficients

60-Nd-140

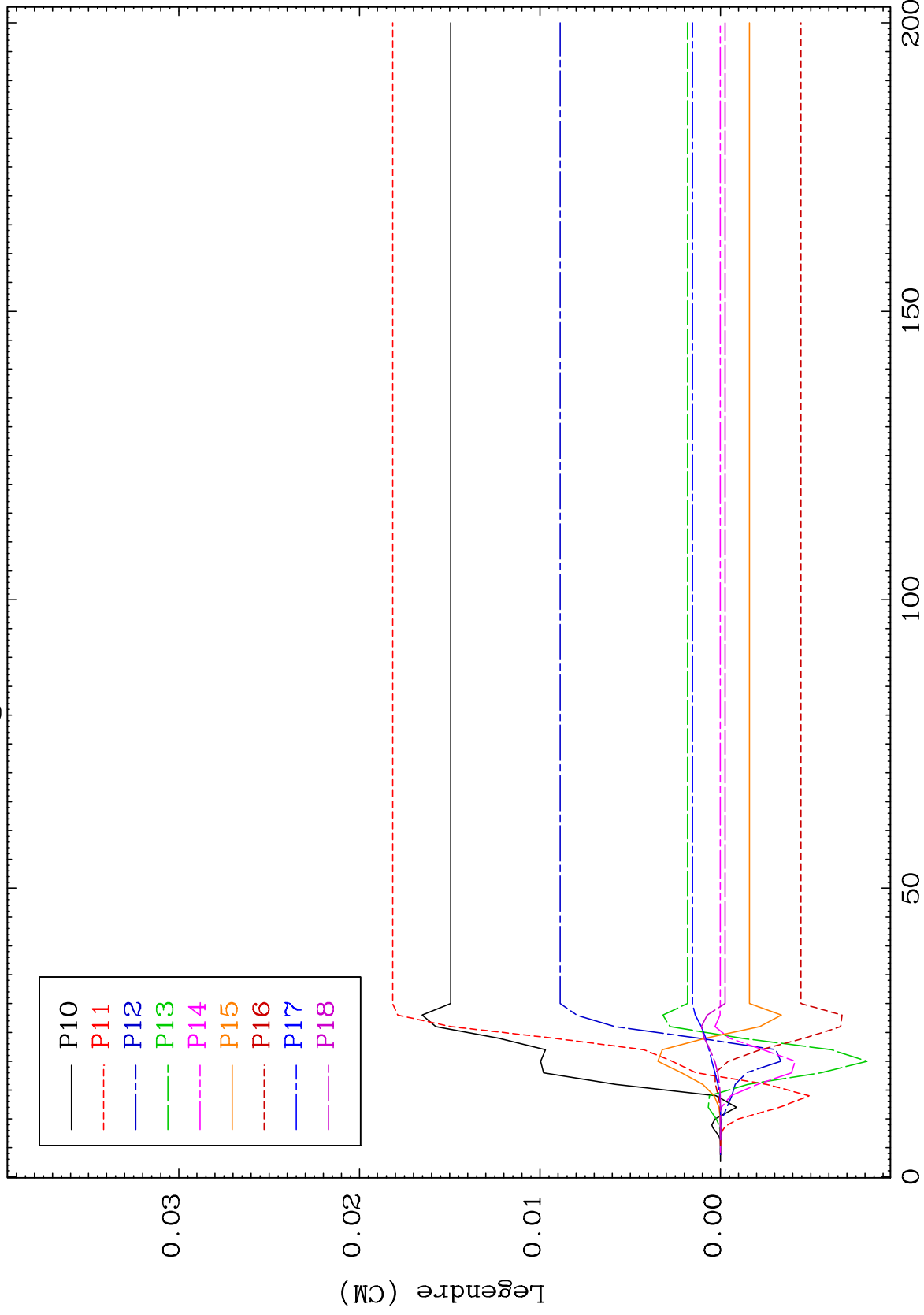




MAT 6019

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

60-Nd-140



74

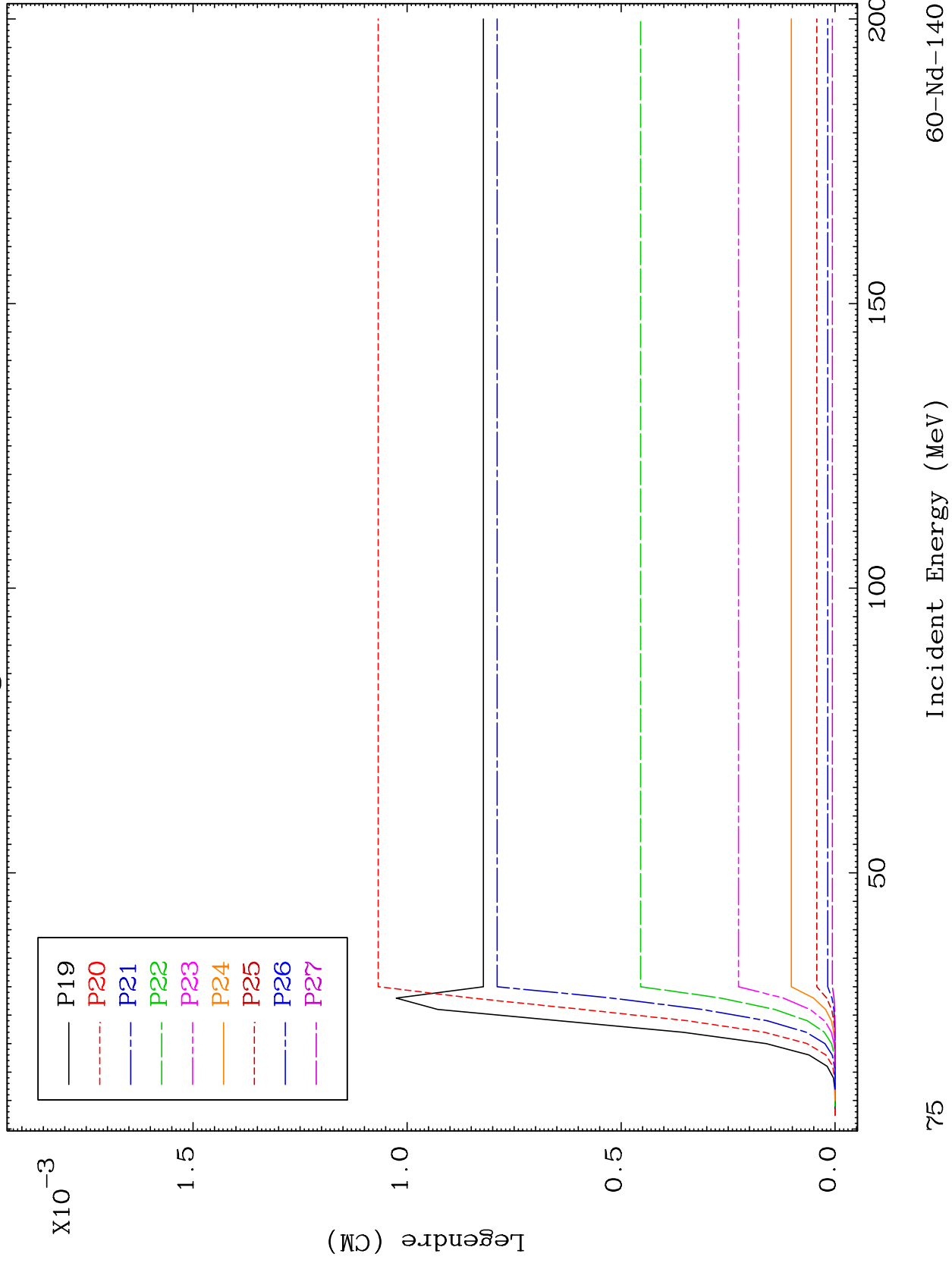
Incident Energy (MeV)

60-Nd-140

MAT 6019

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

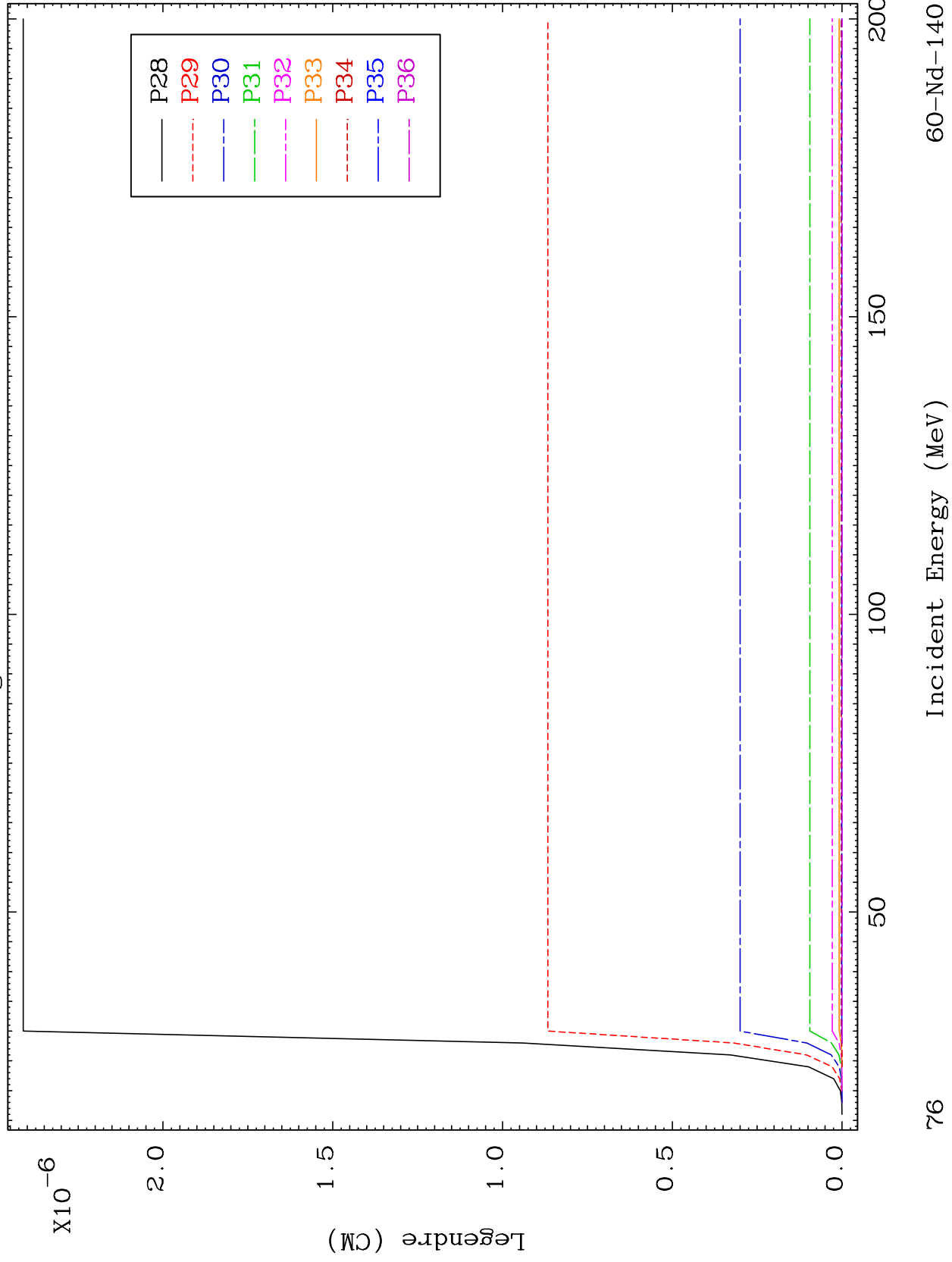
60-Nd-140



MAT 6019

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

60-Nd-140



76

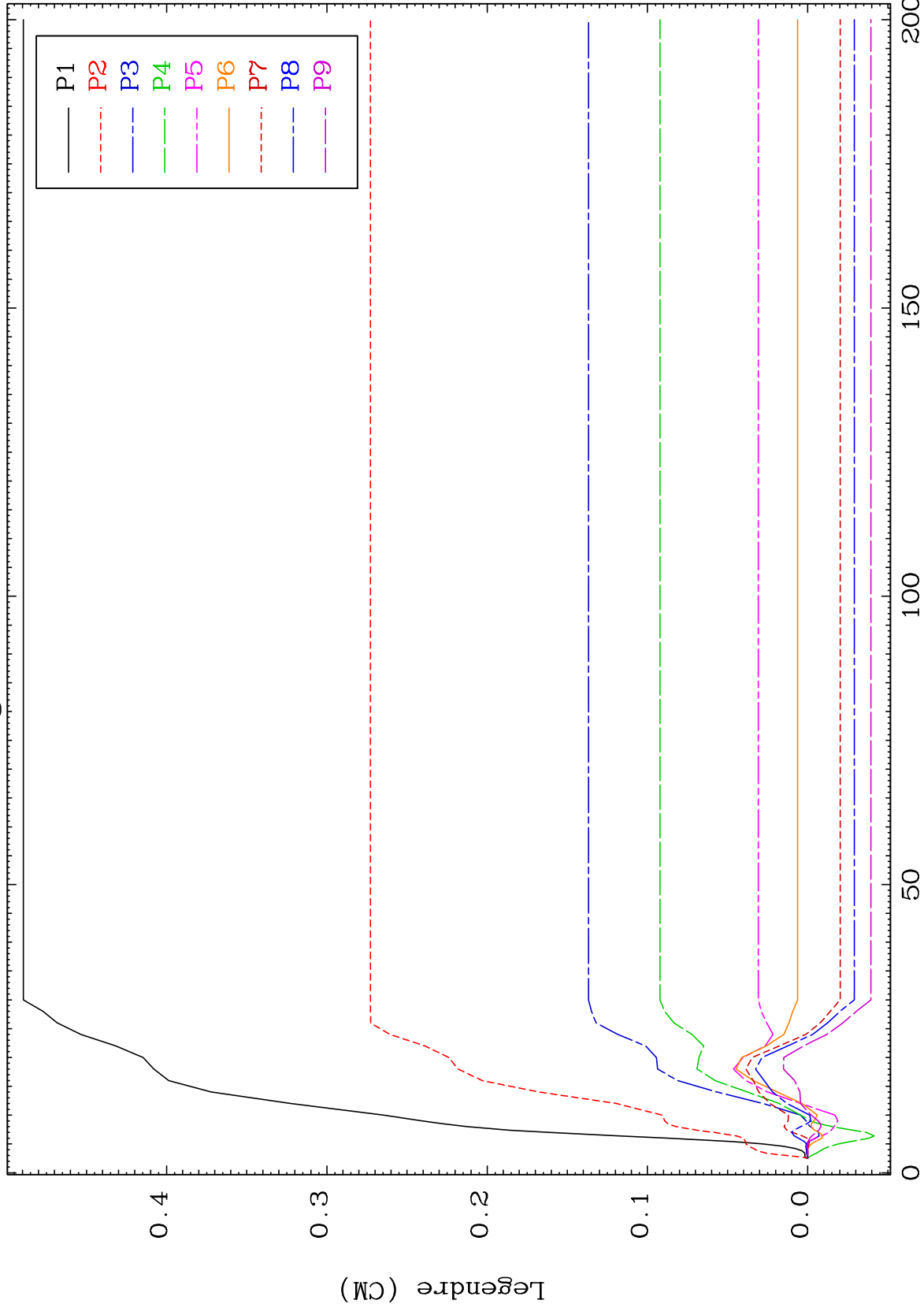
Incident Energy (MeV)

60-Nd-140

MAT 6019

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

60-Nd-140



77

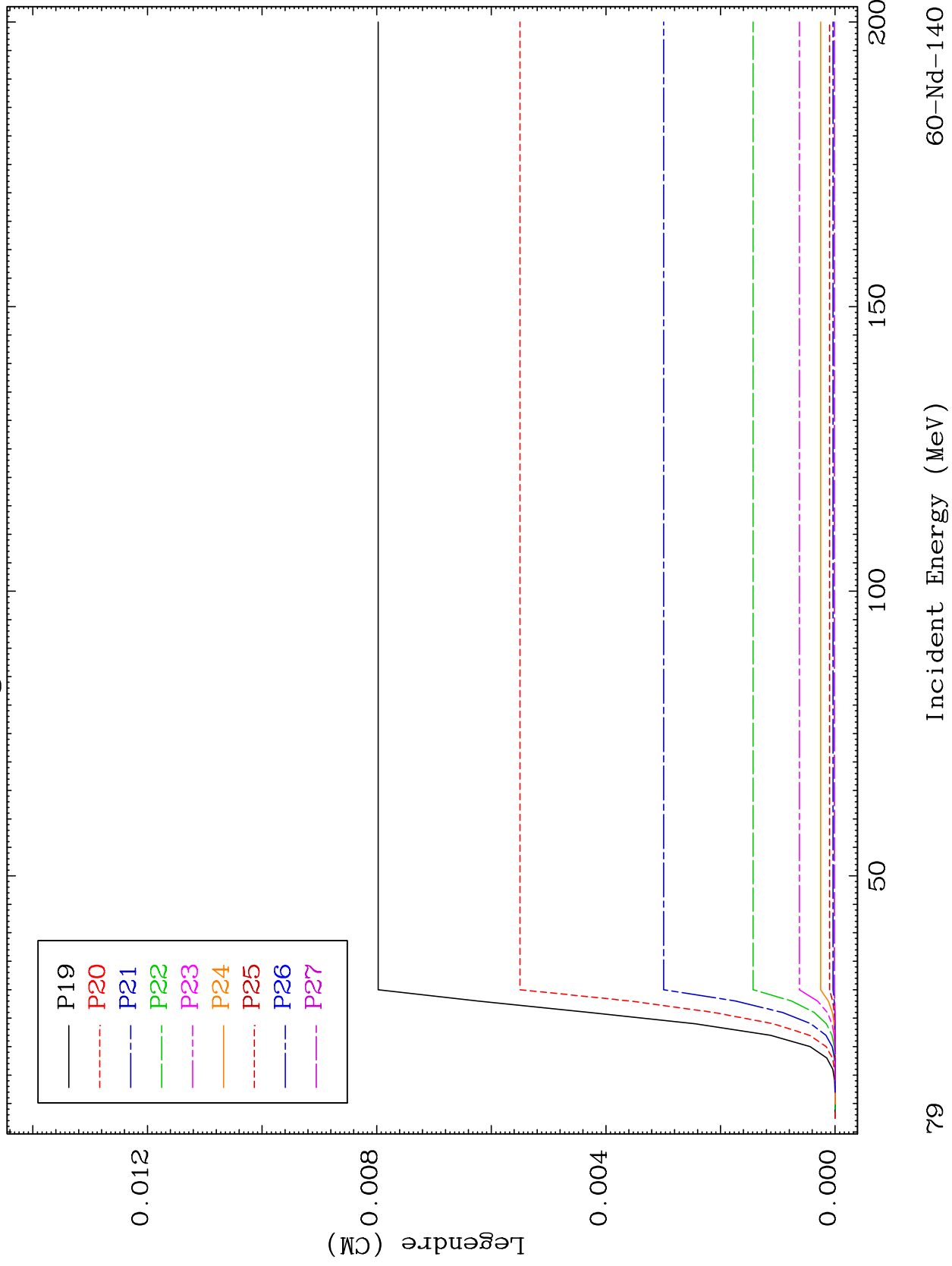
Incident Energy (MeV)

60-Nd-140

MAT 6019

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

60-Nd-140



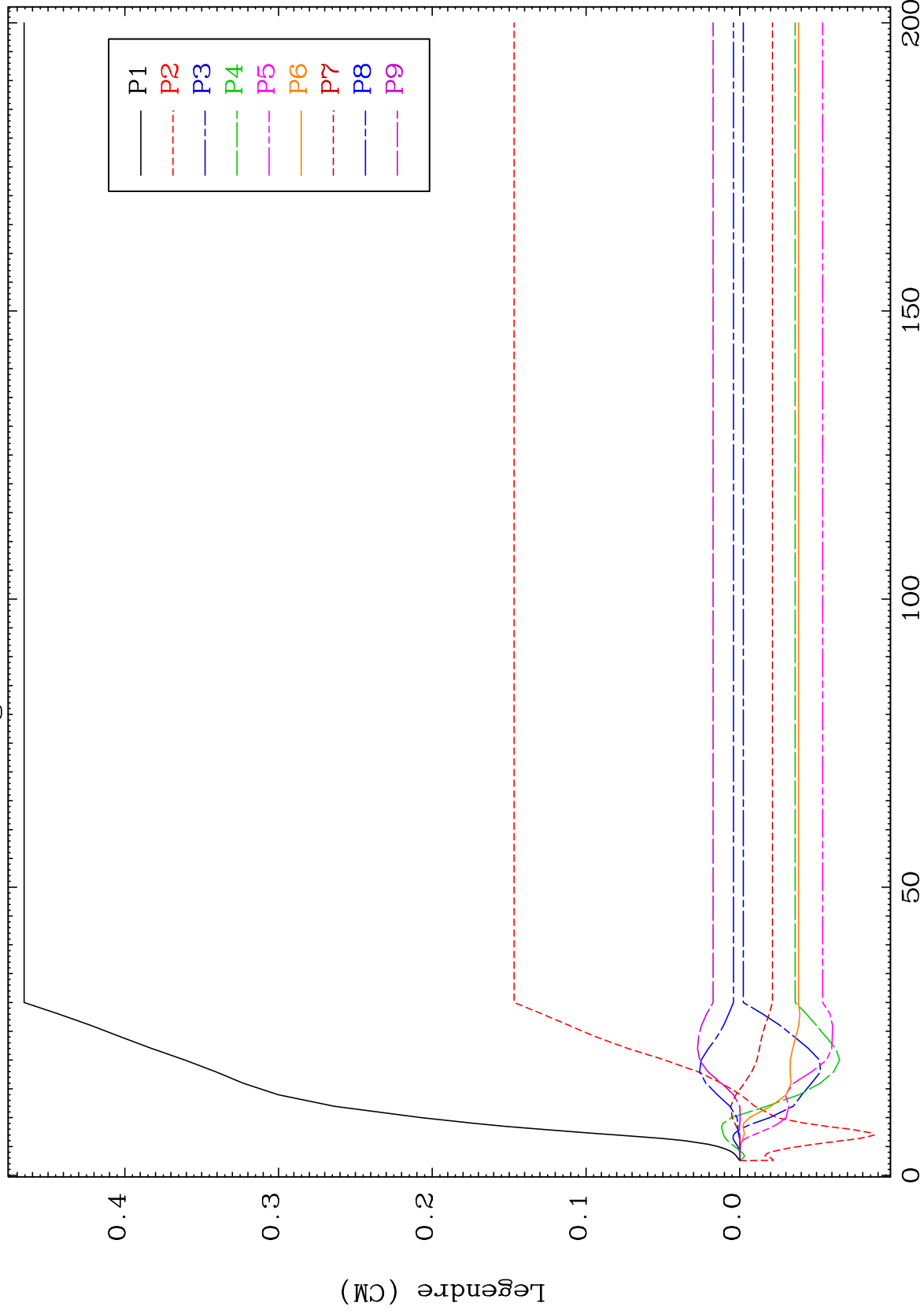
79

60-Nd-140

MAT 6019

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

60-Nd-140



81

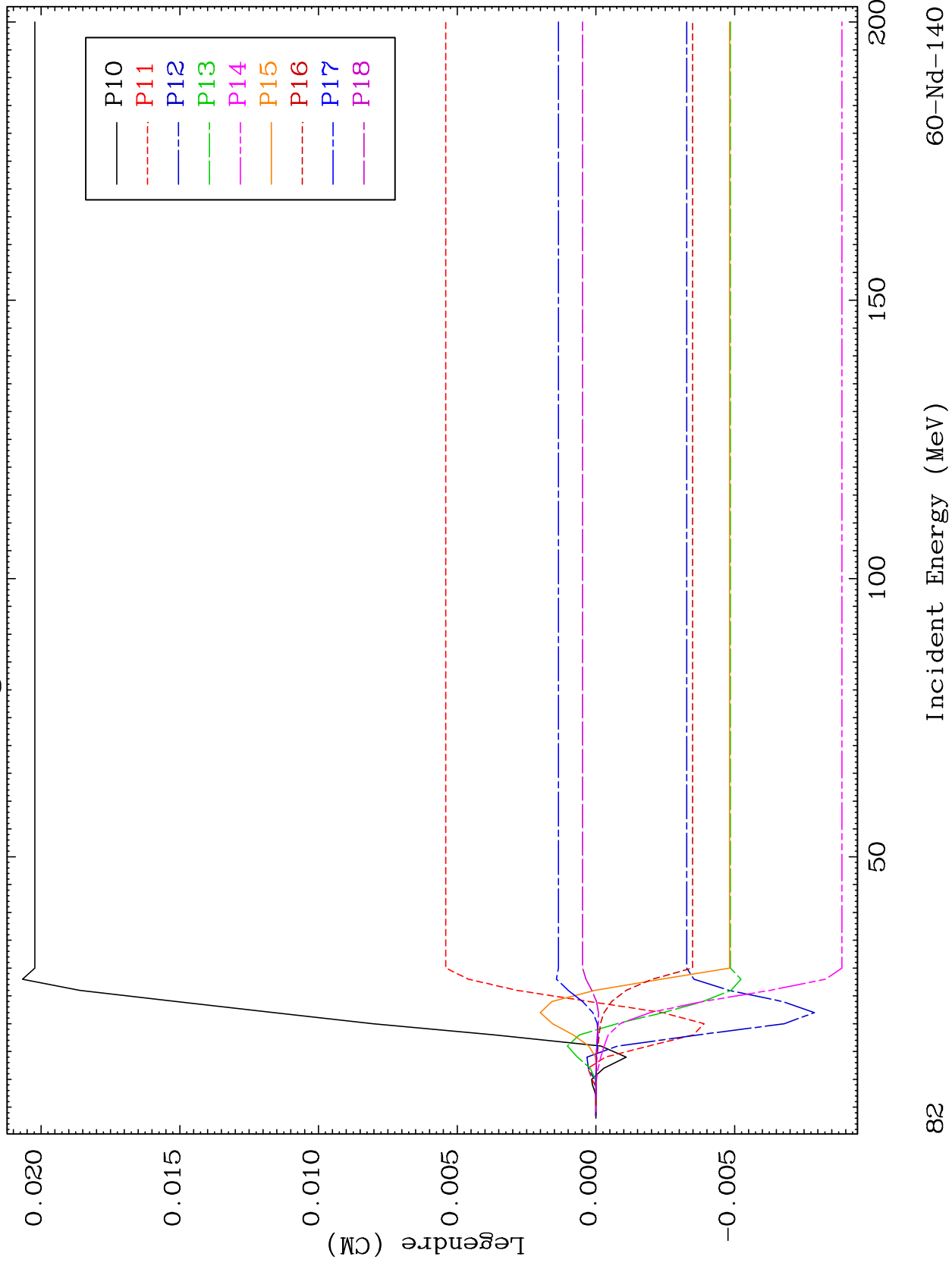
Incident Energy (MeV)

60-Nd-140

MAT 6019

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

60-Nd-140



82

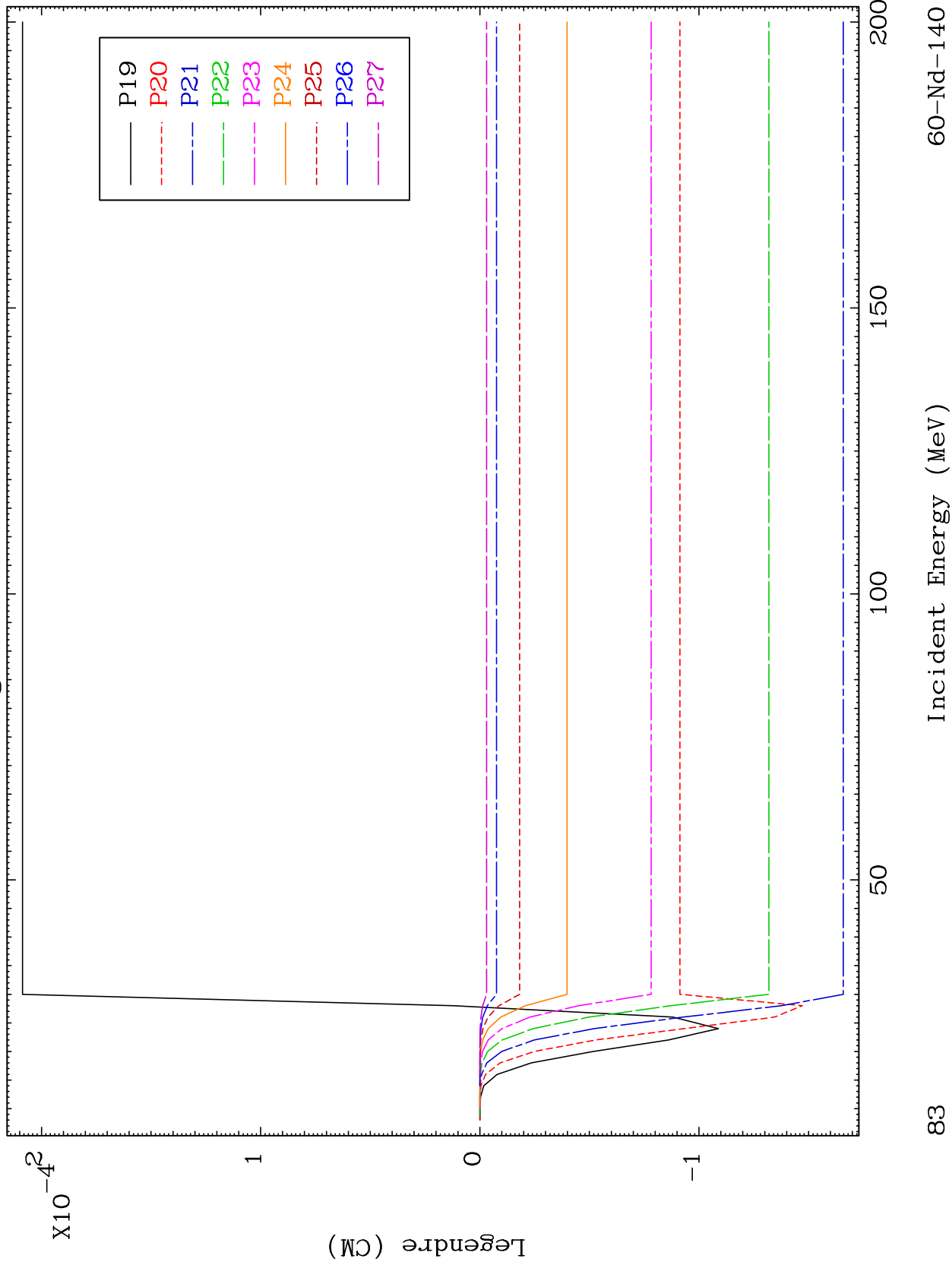
Incident Energy (MeV)

60-Nd-140

MAT 6019

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

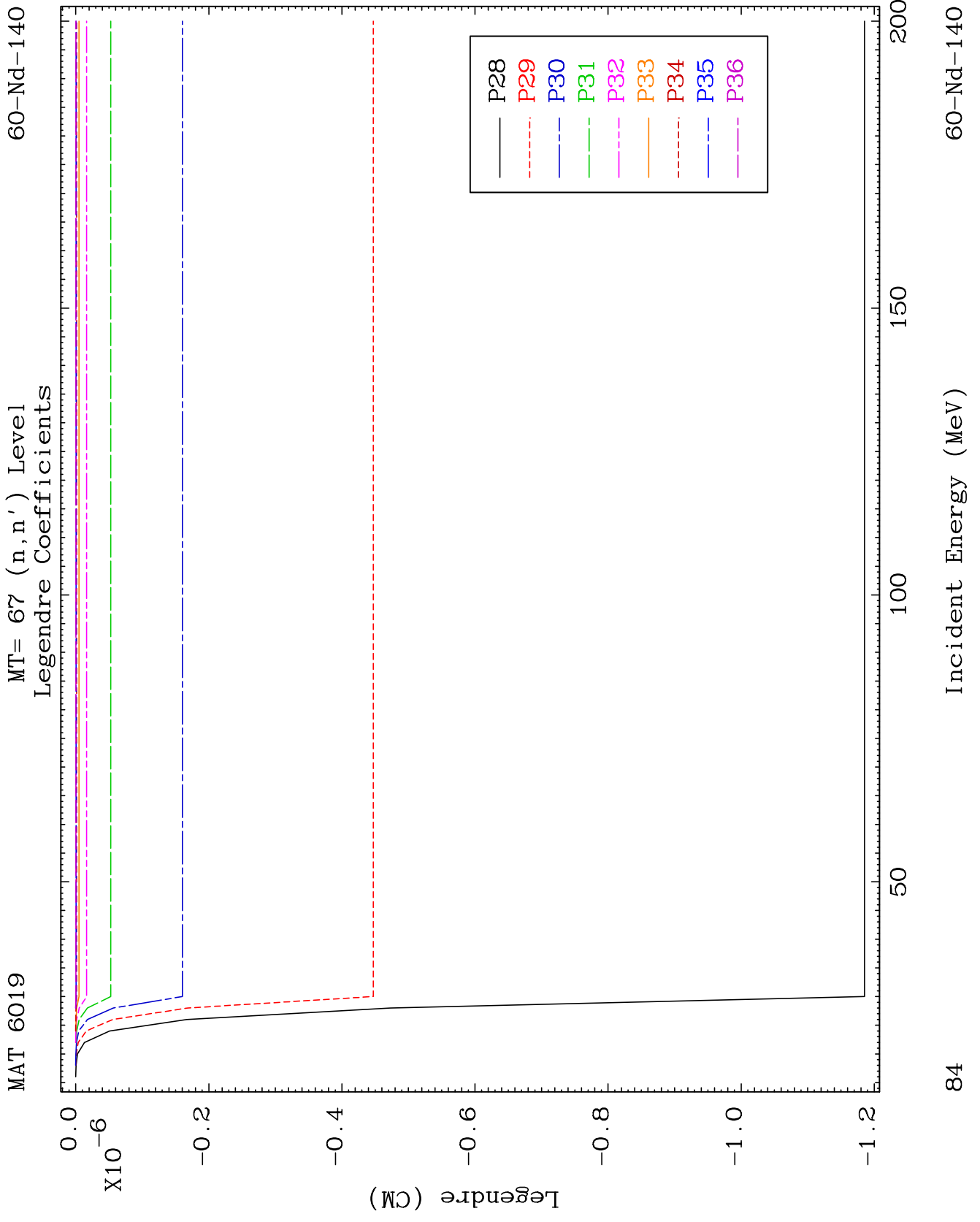
60-Nd-140

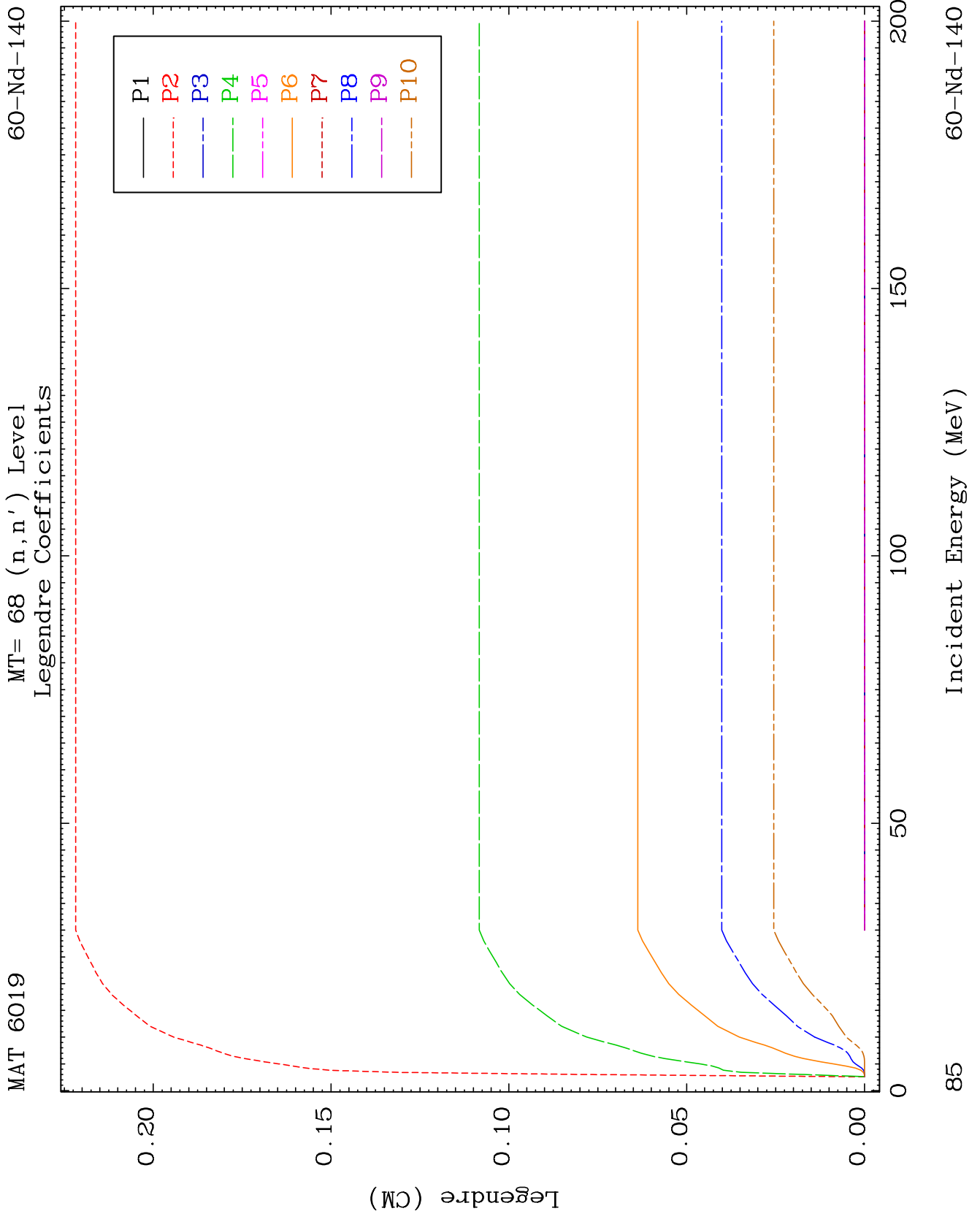


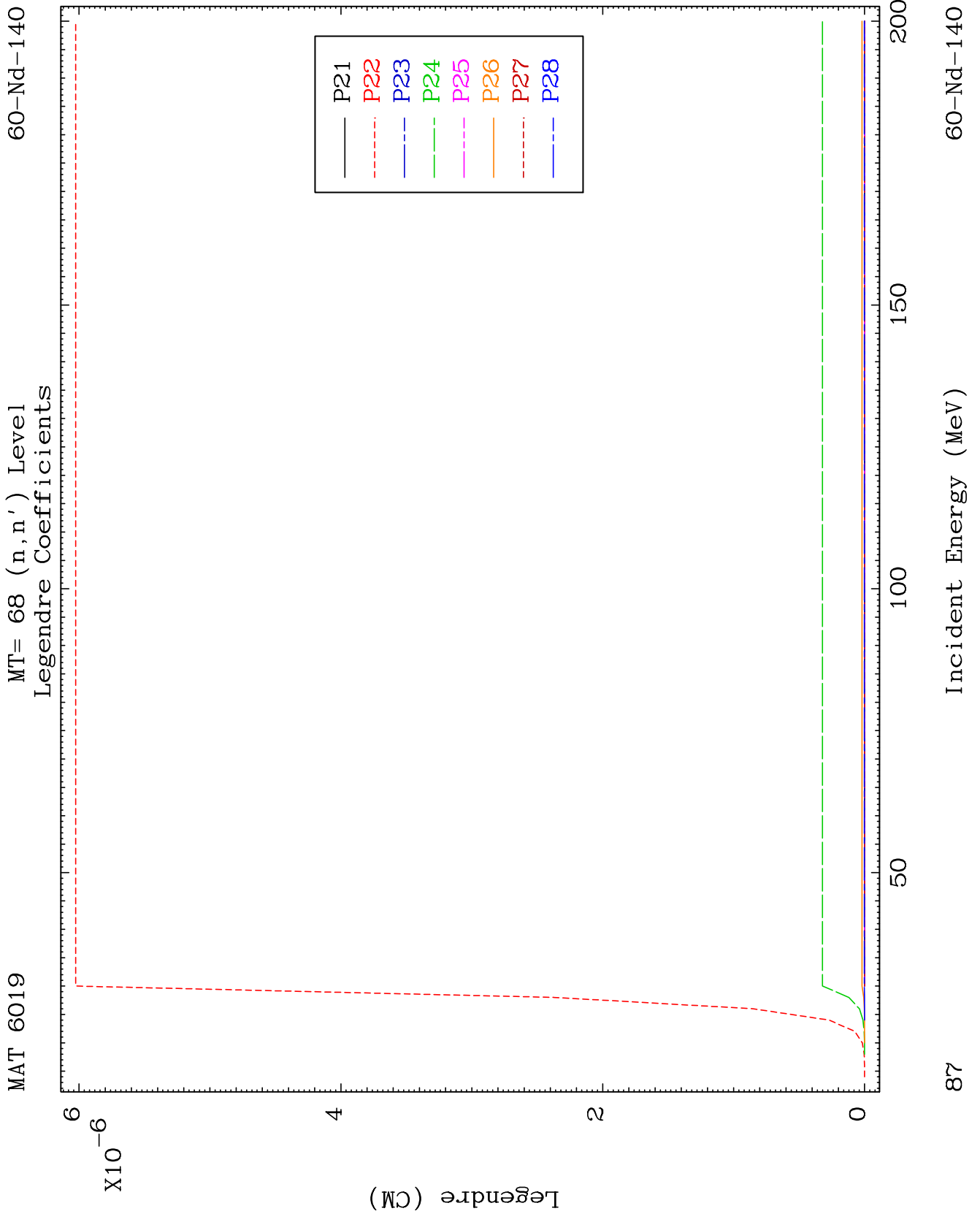
83

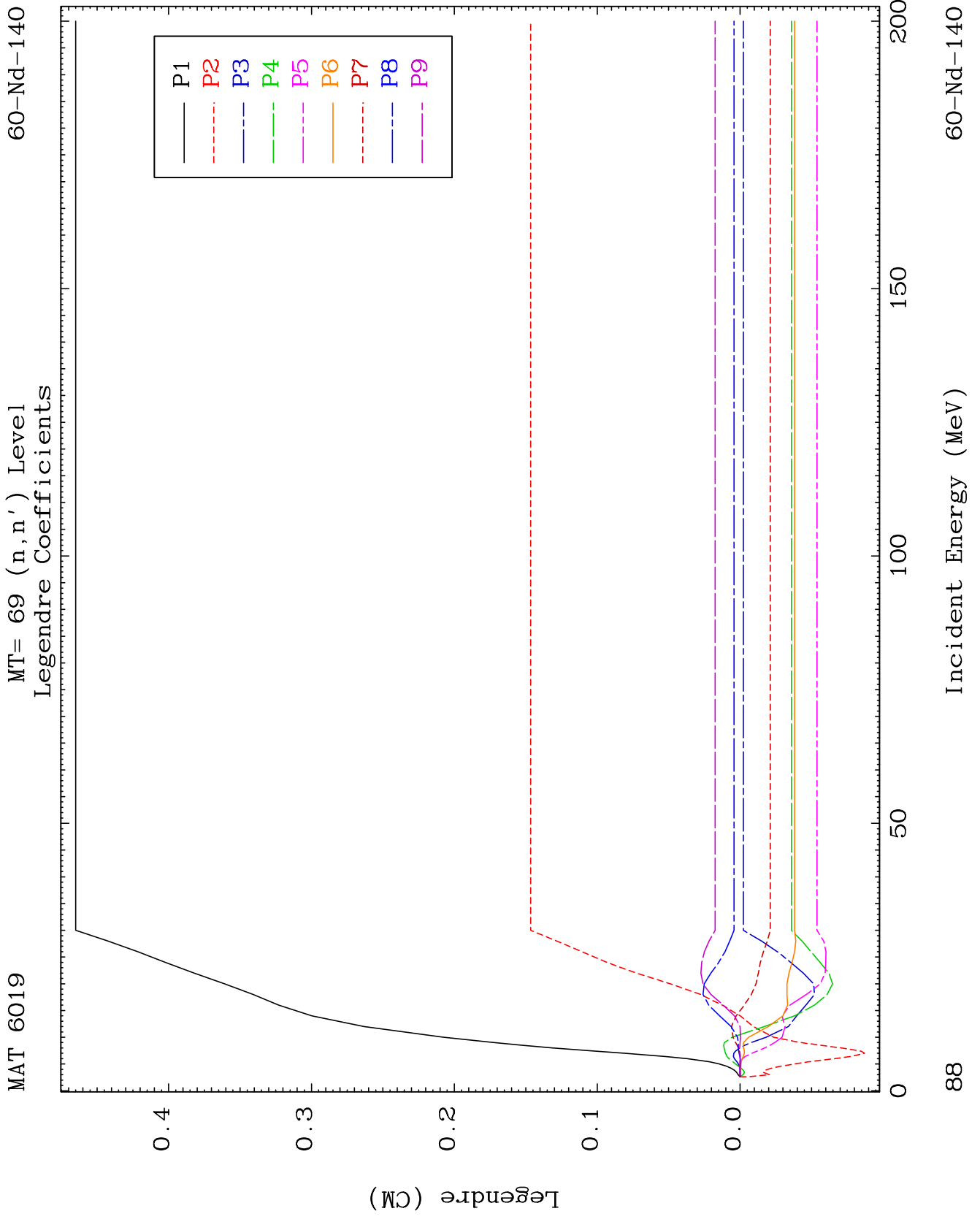
Incident Energy (MeV)

60-Nd-140





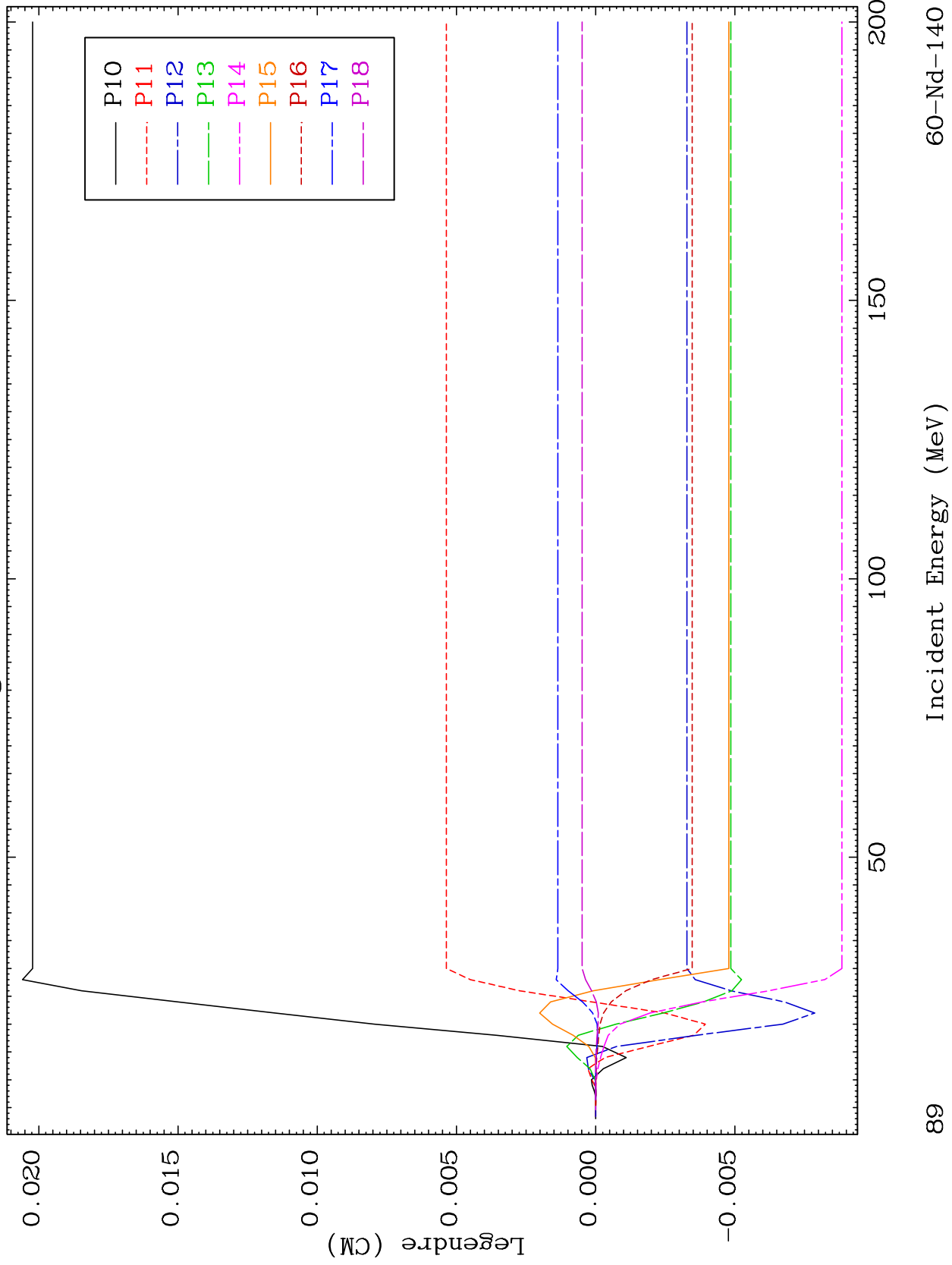




MAT 6019

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

60-Nd-140



89

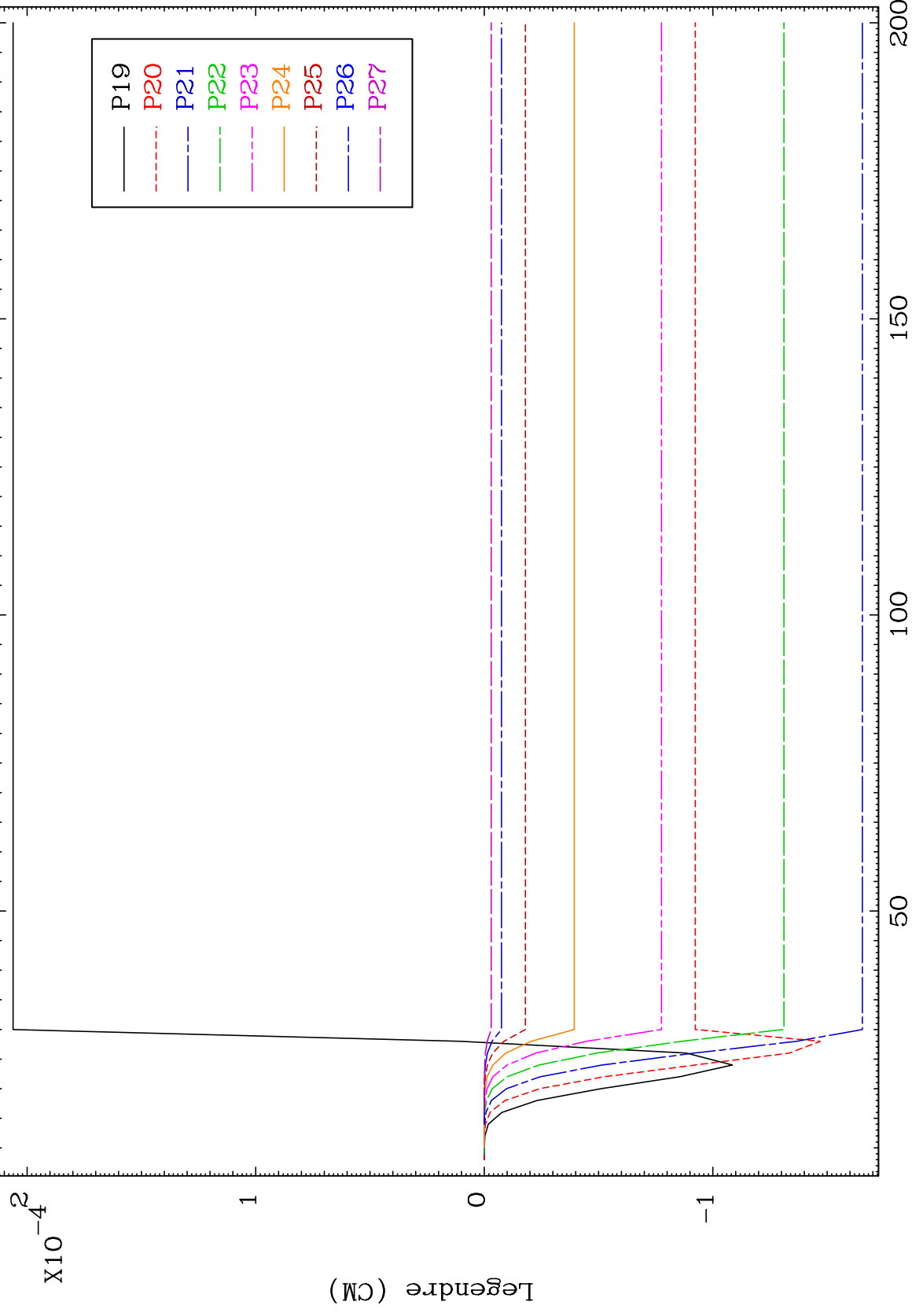
Incident Energy (MeV)

60-Nd-140

MAT 6019

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

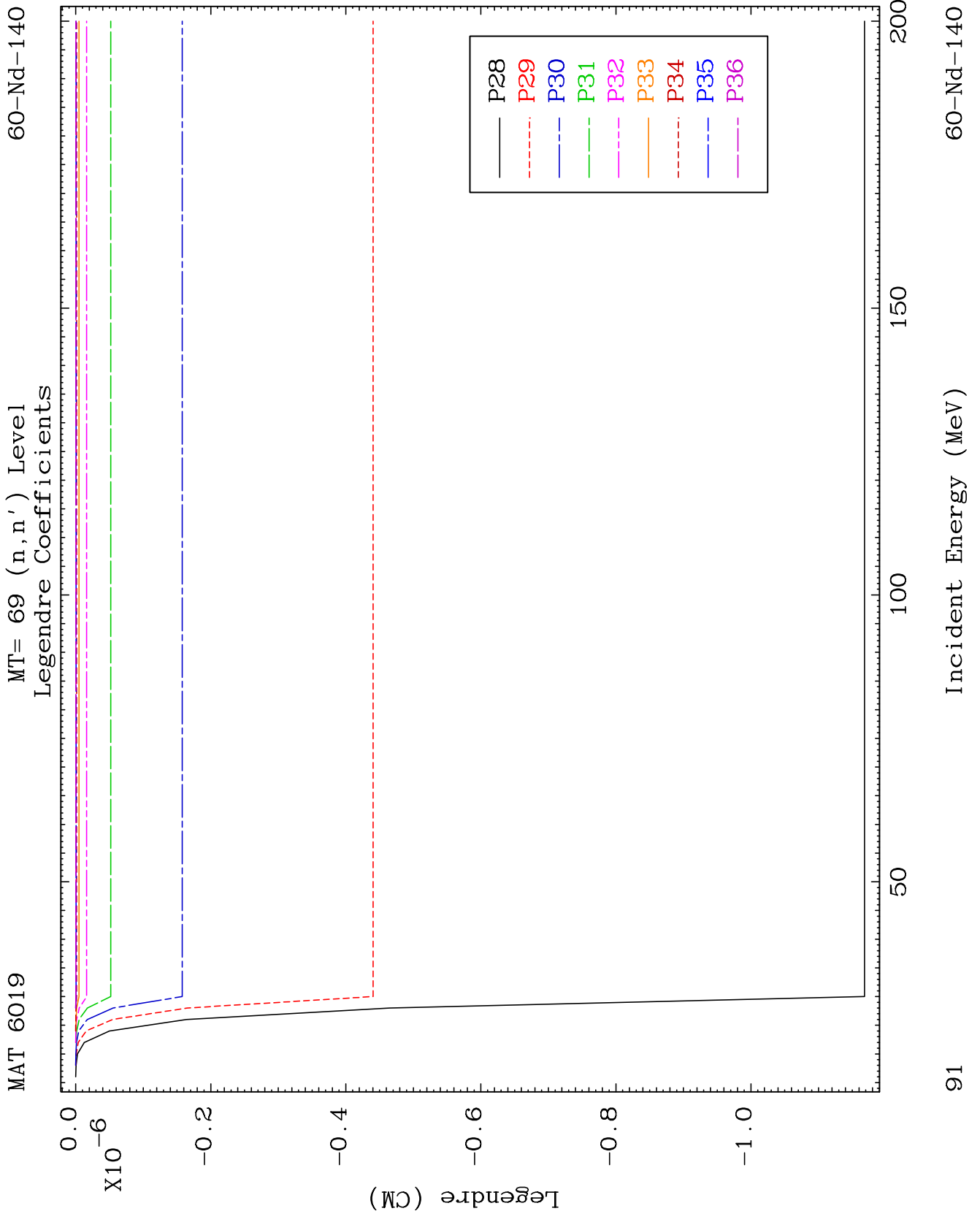
60-Nd-140

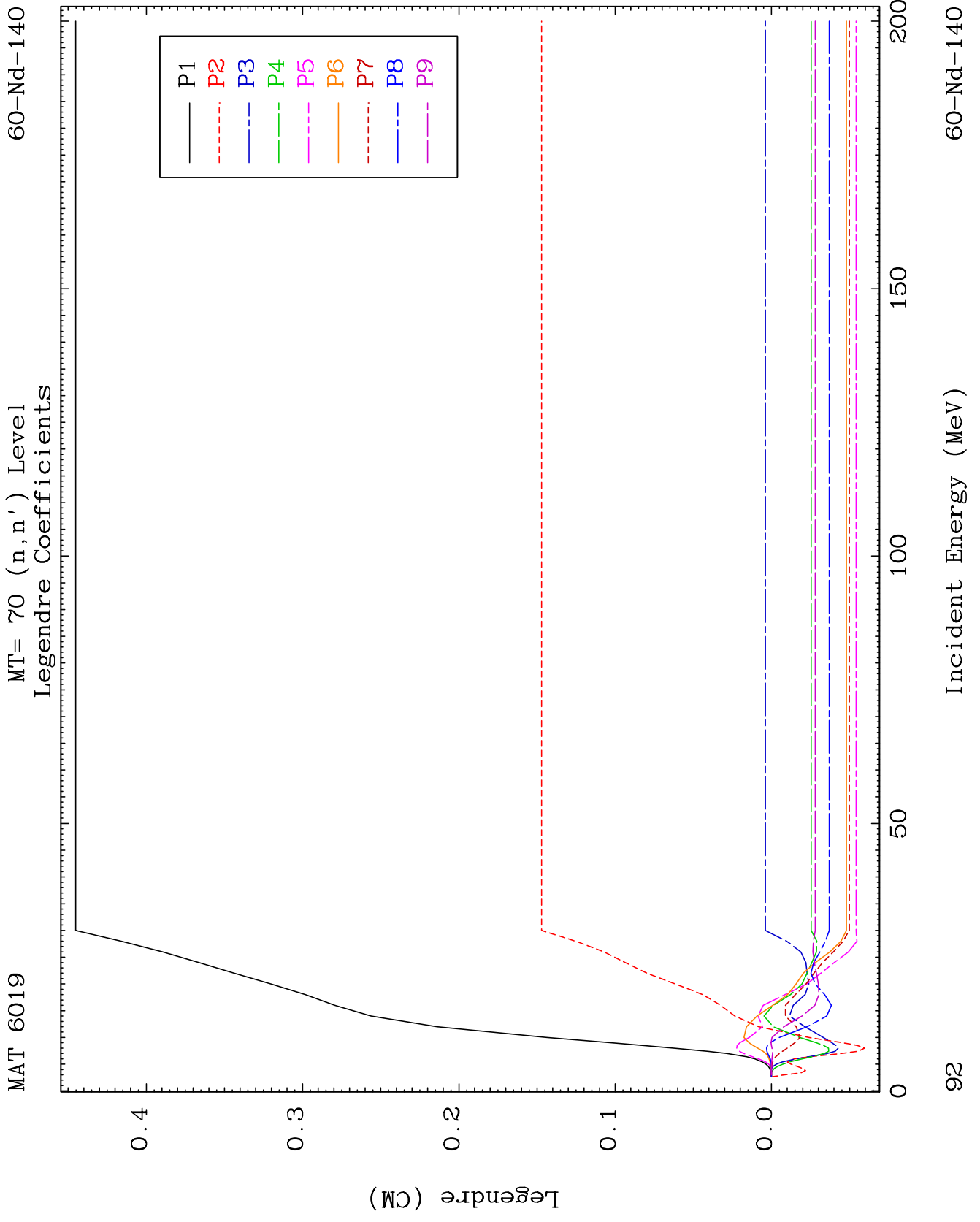


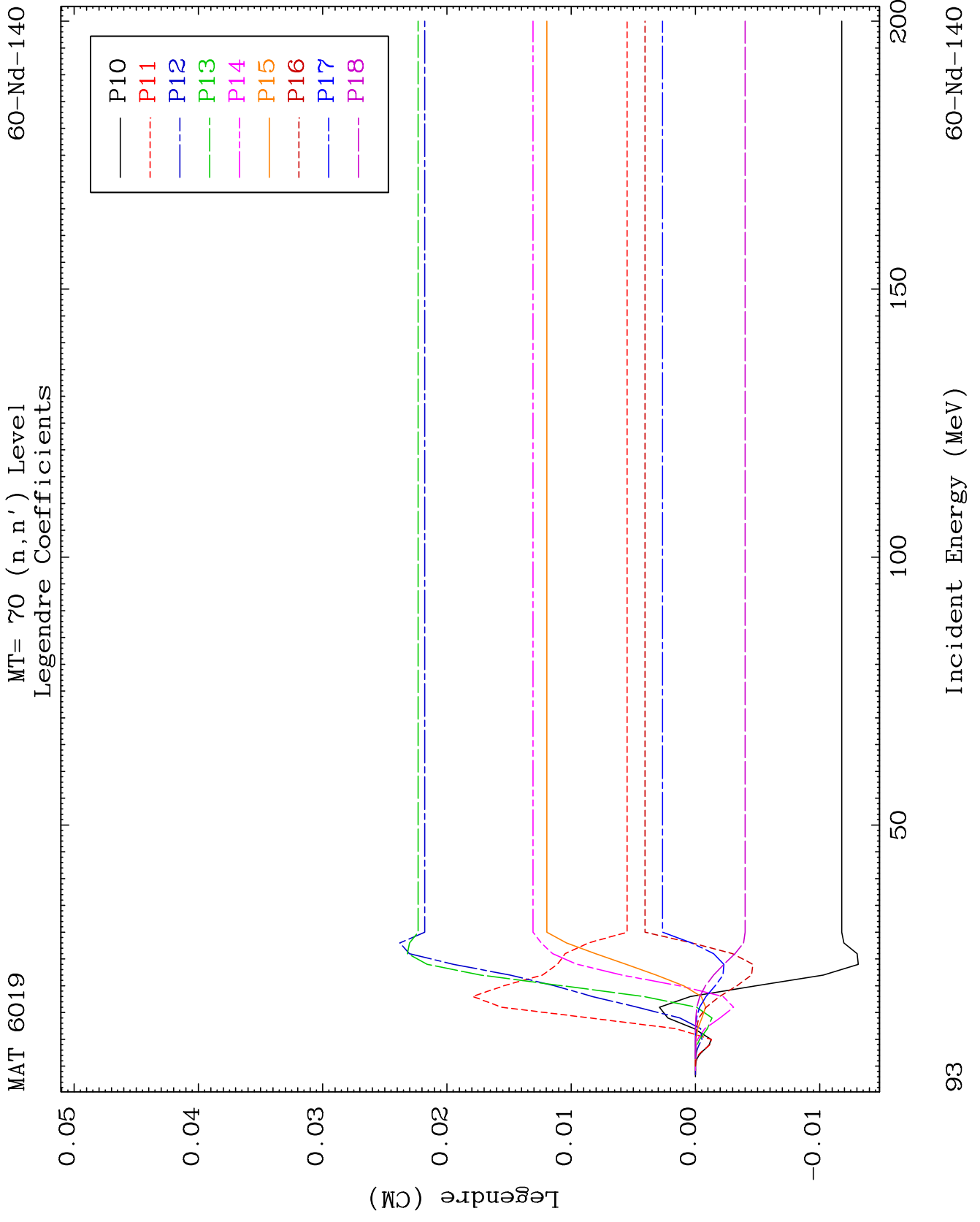
90

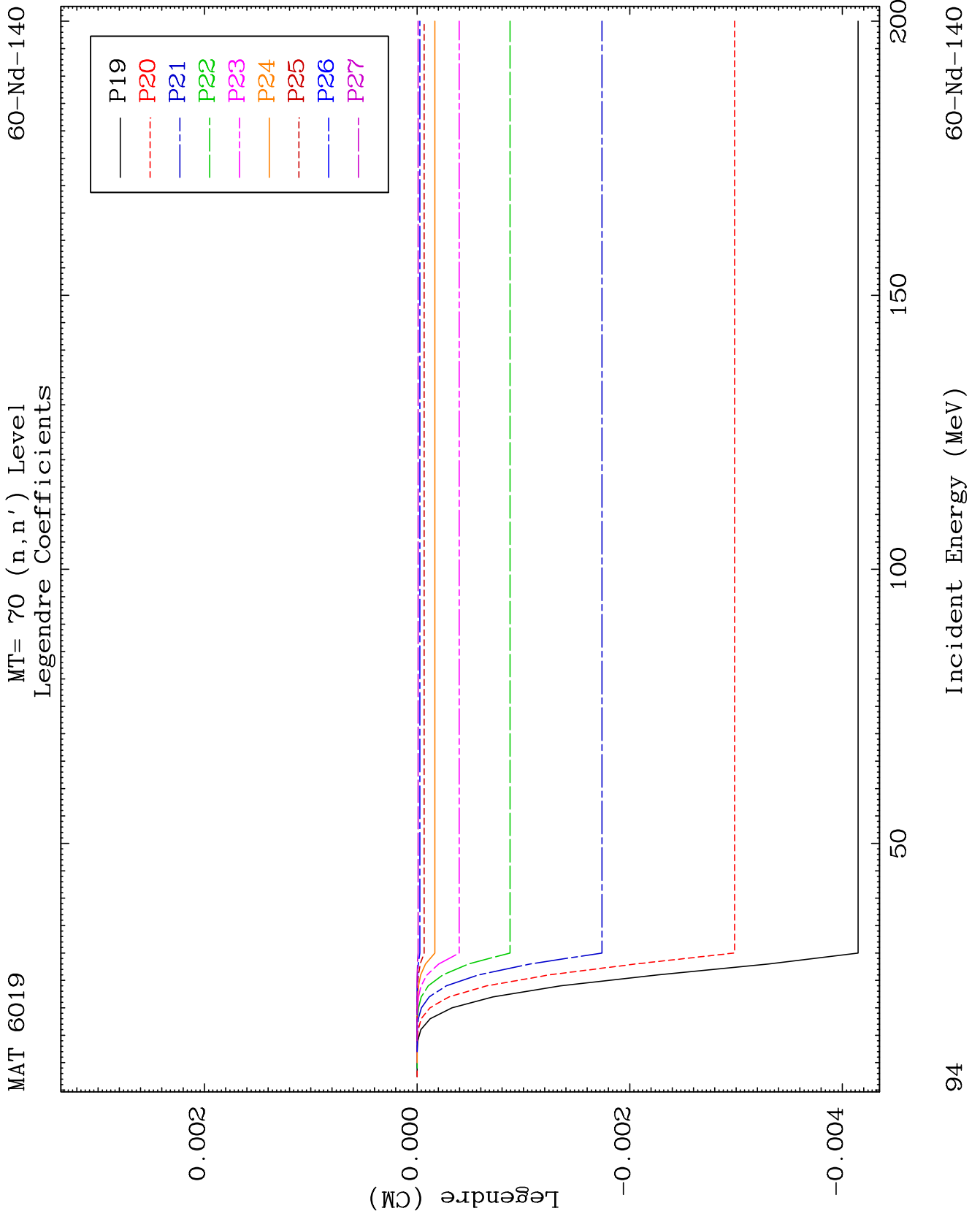
Incident Energy (MeV)

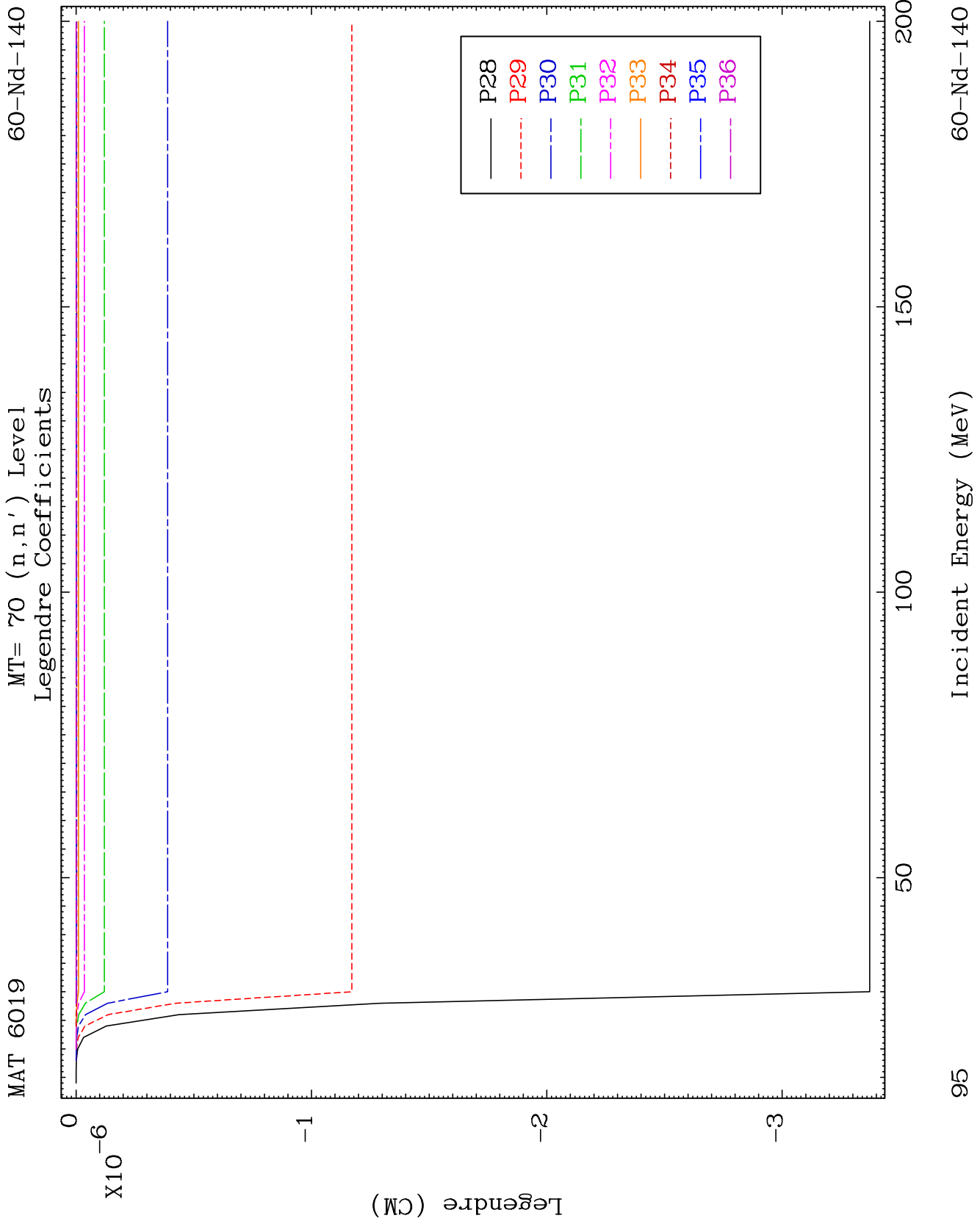
60-Nd-140

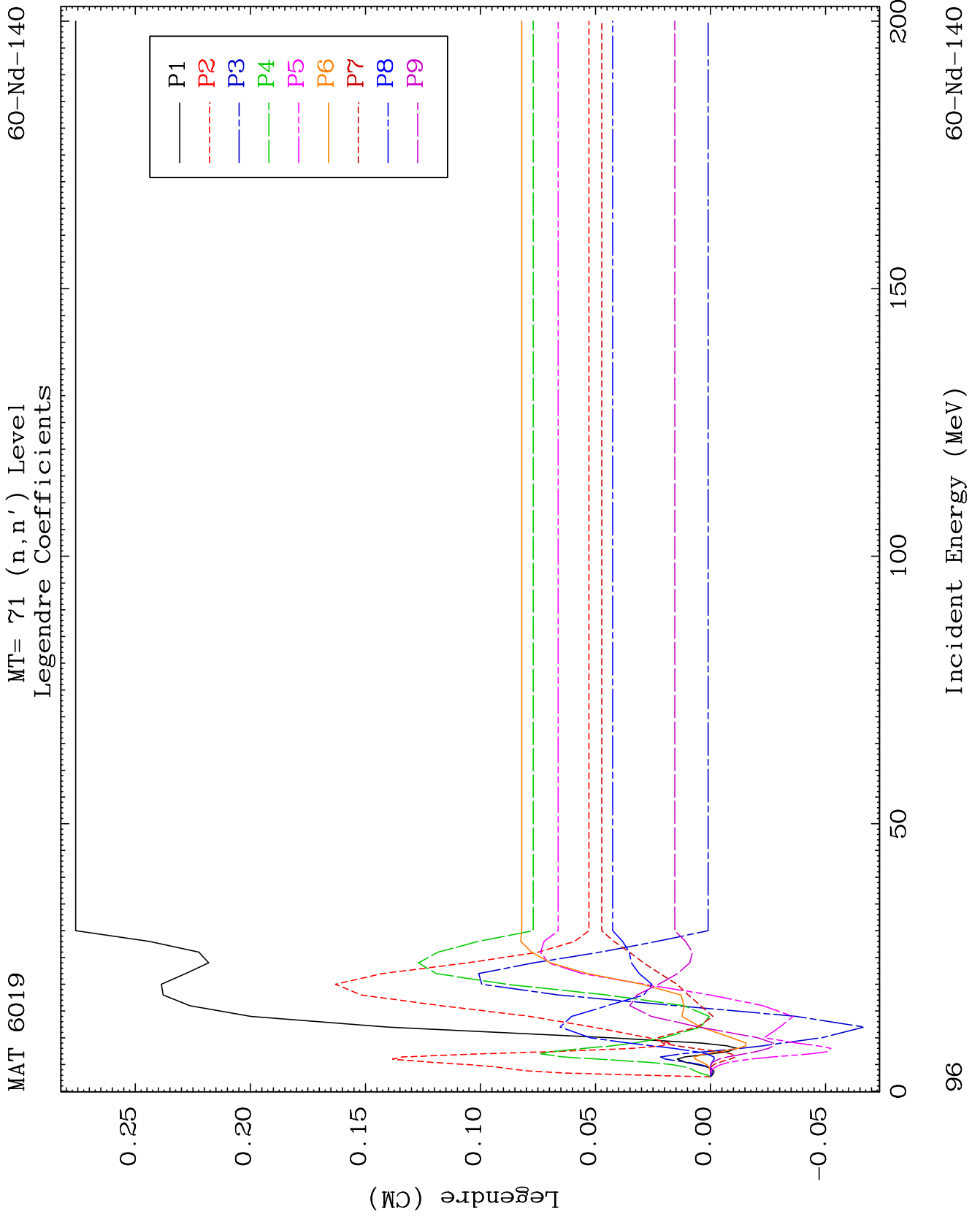








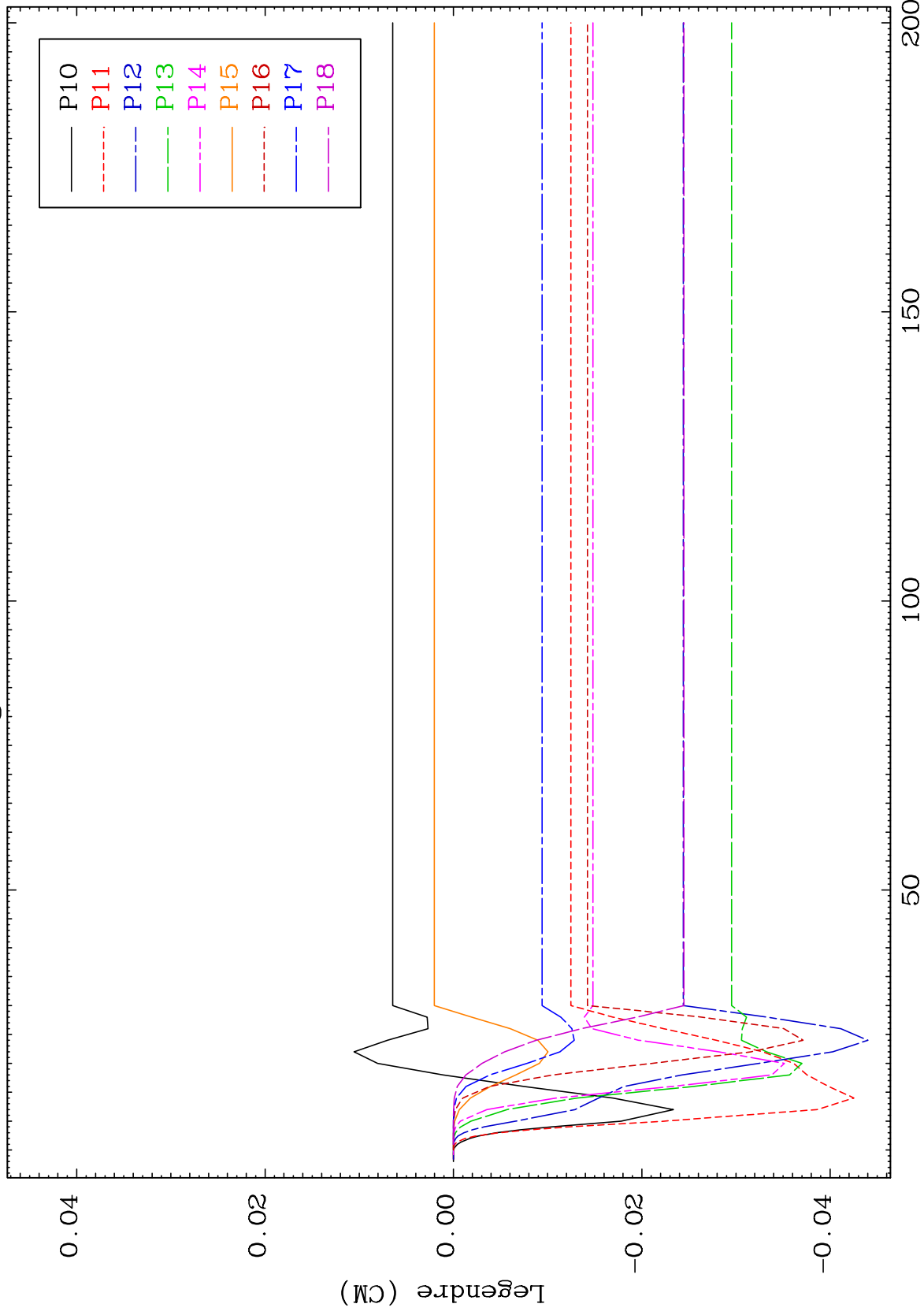




MAT 6019

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

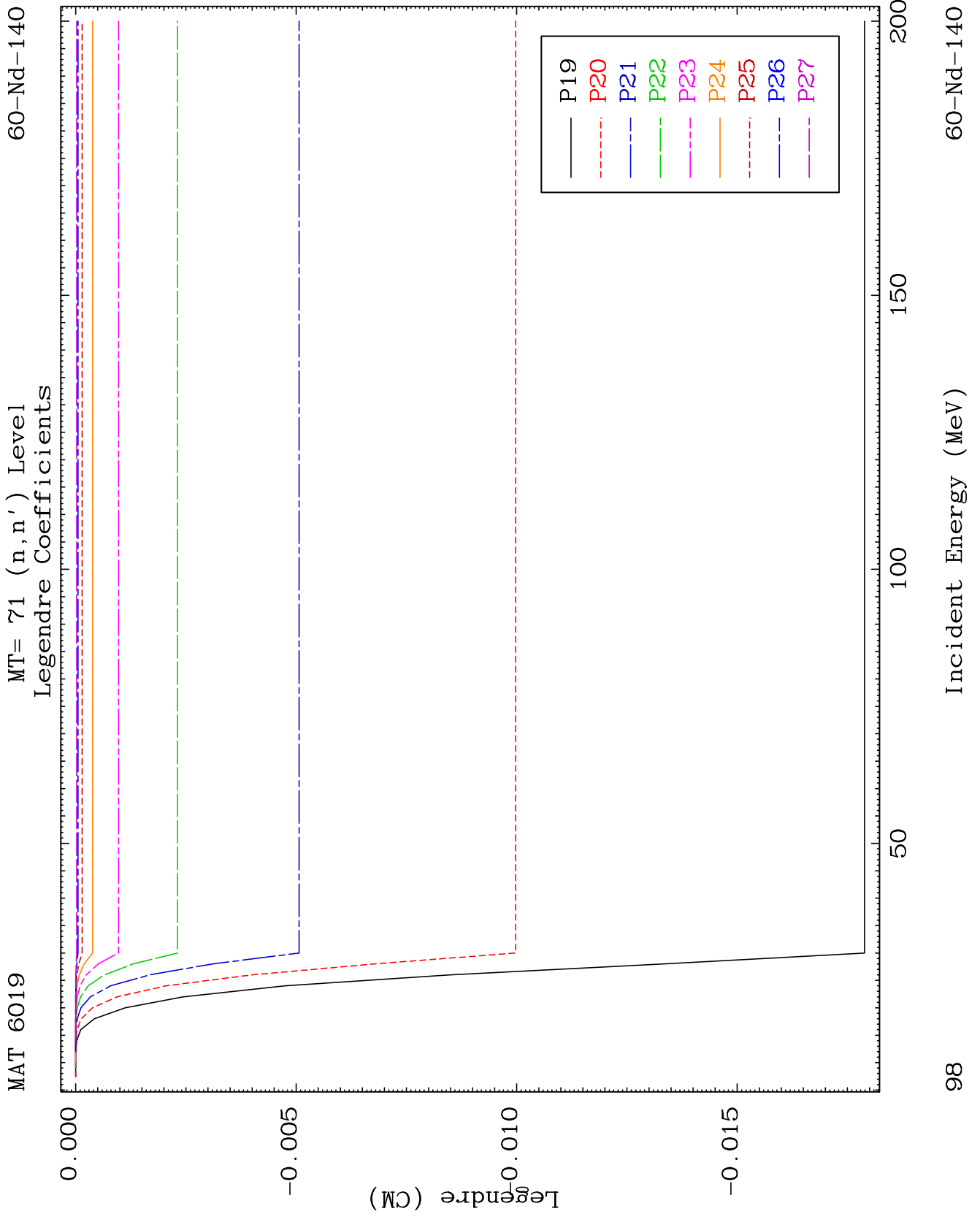
60-Nd-140

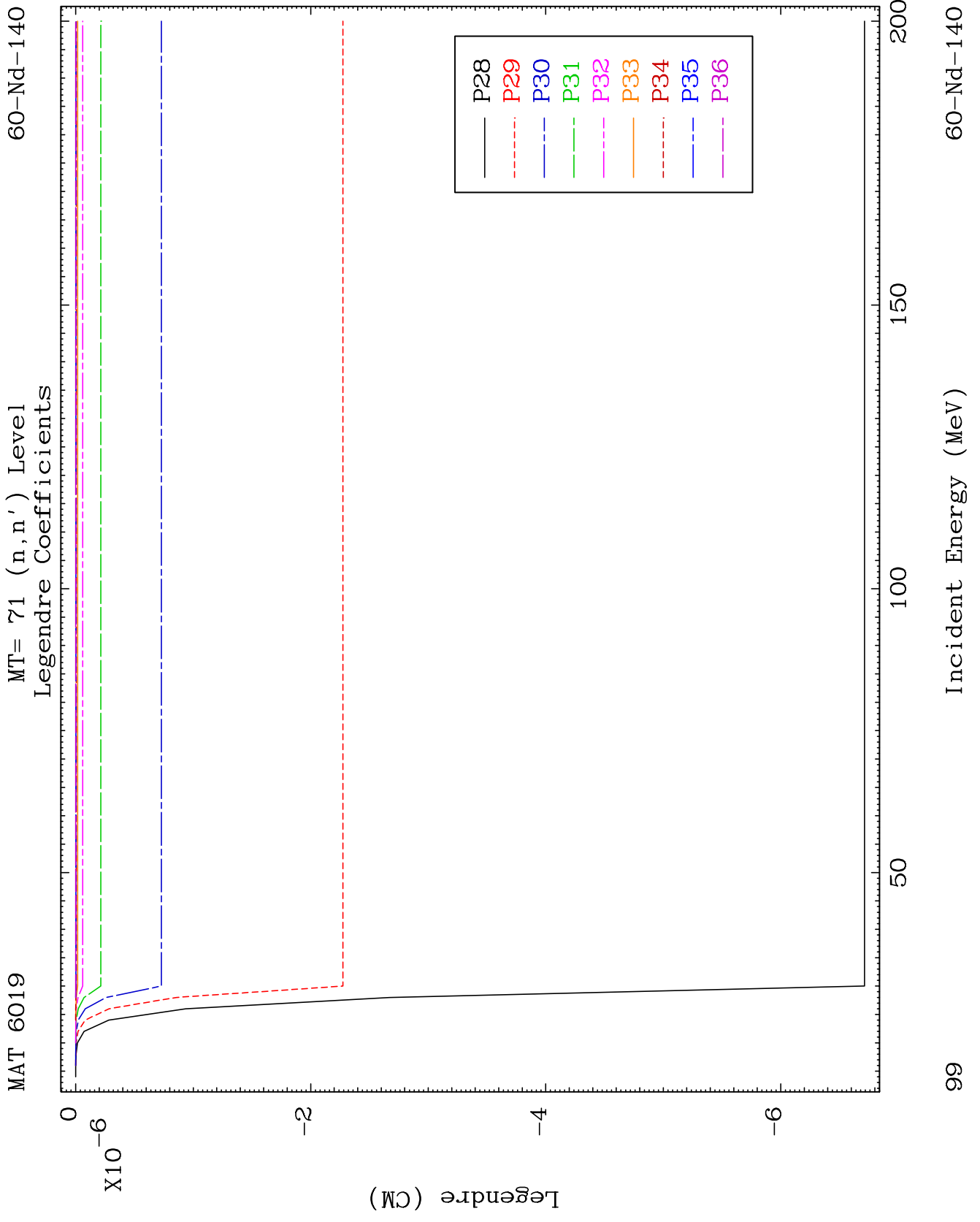


97

Incident Energy (MeV)

60-Nd-140

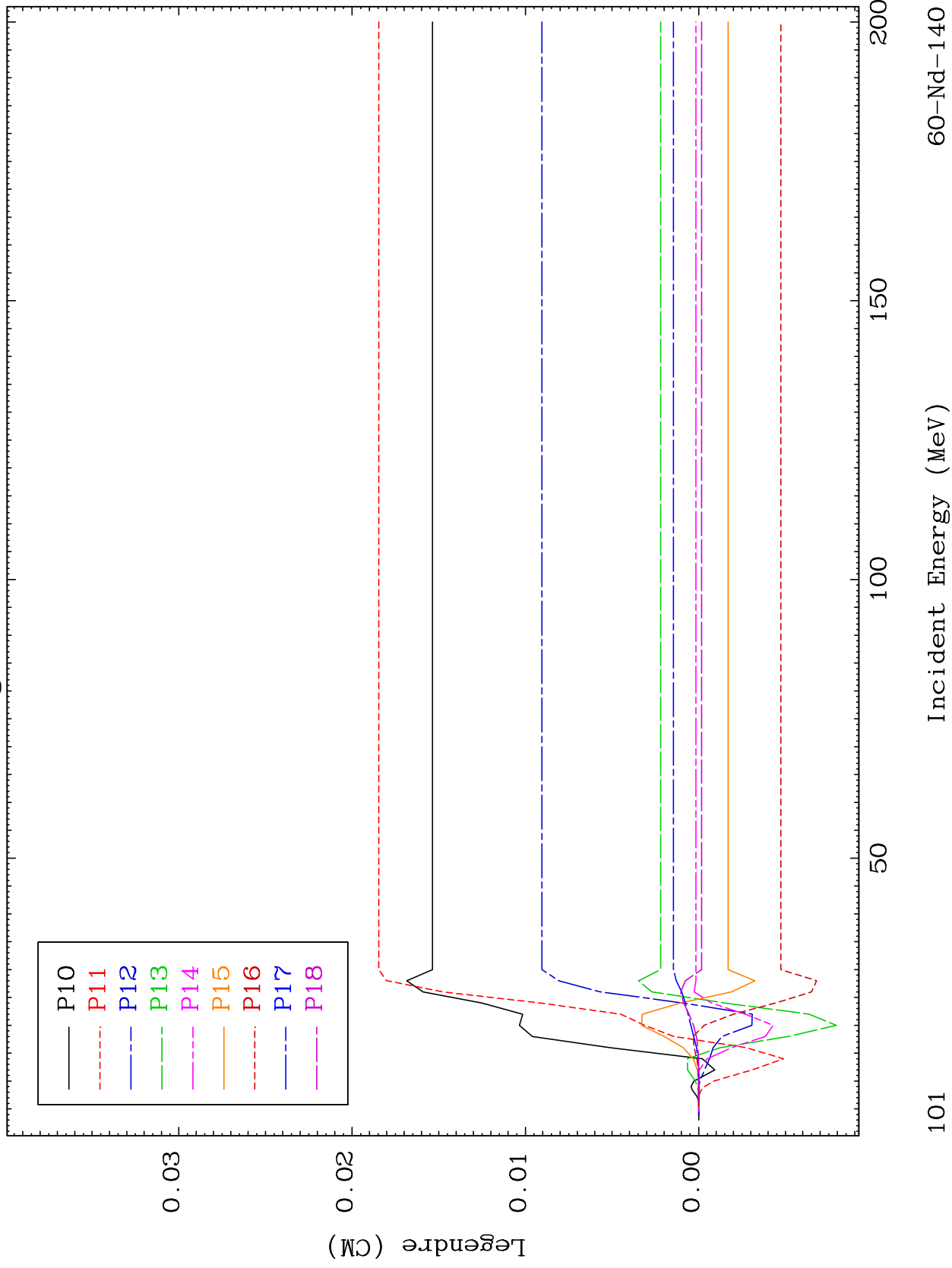




MAT 6019

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

60-Nd-140



101

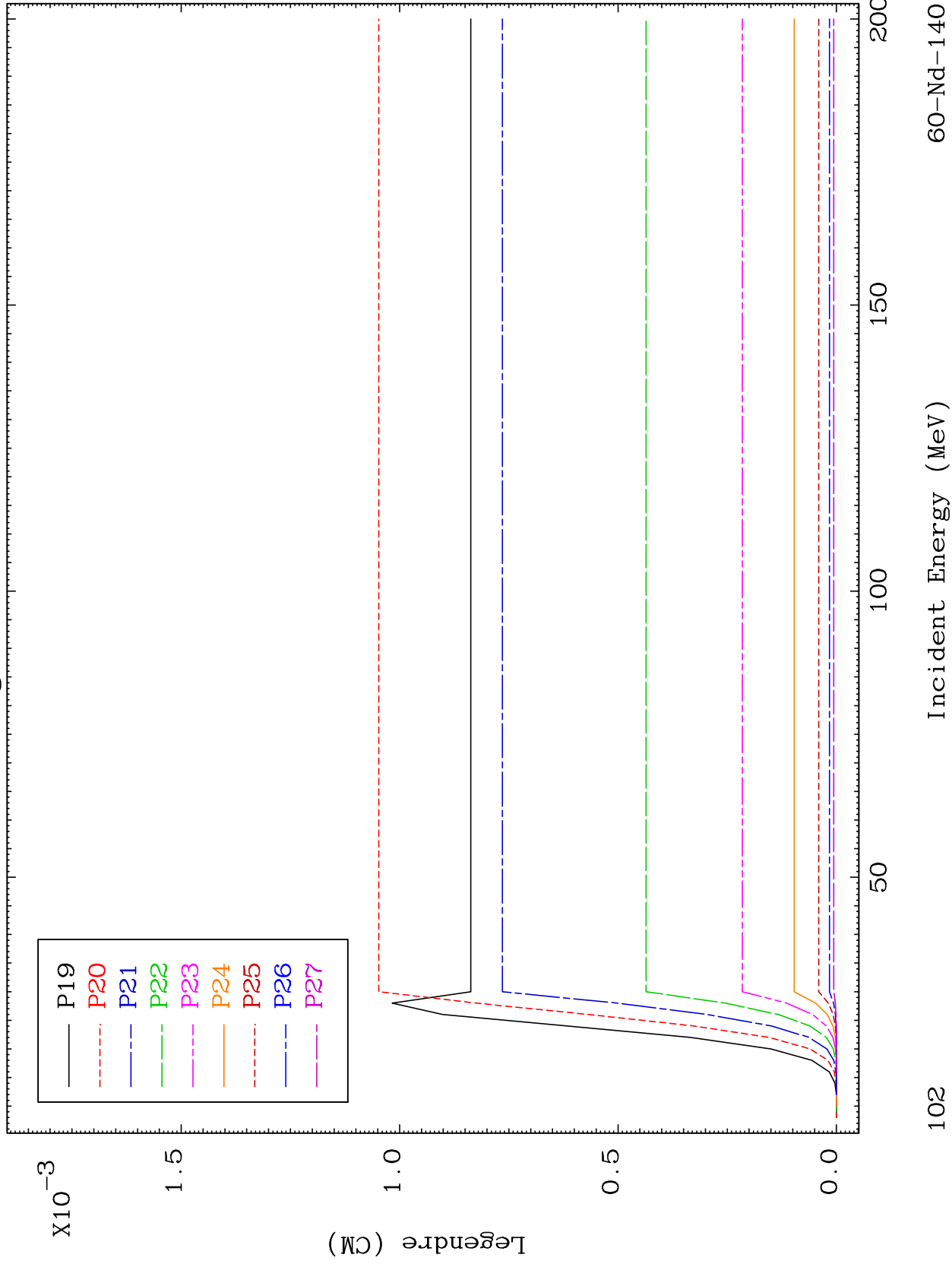
Incident Energy (MeV)

60-Nd-140

MAT 6019

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

60-Nd-140

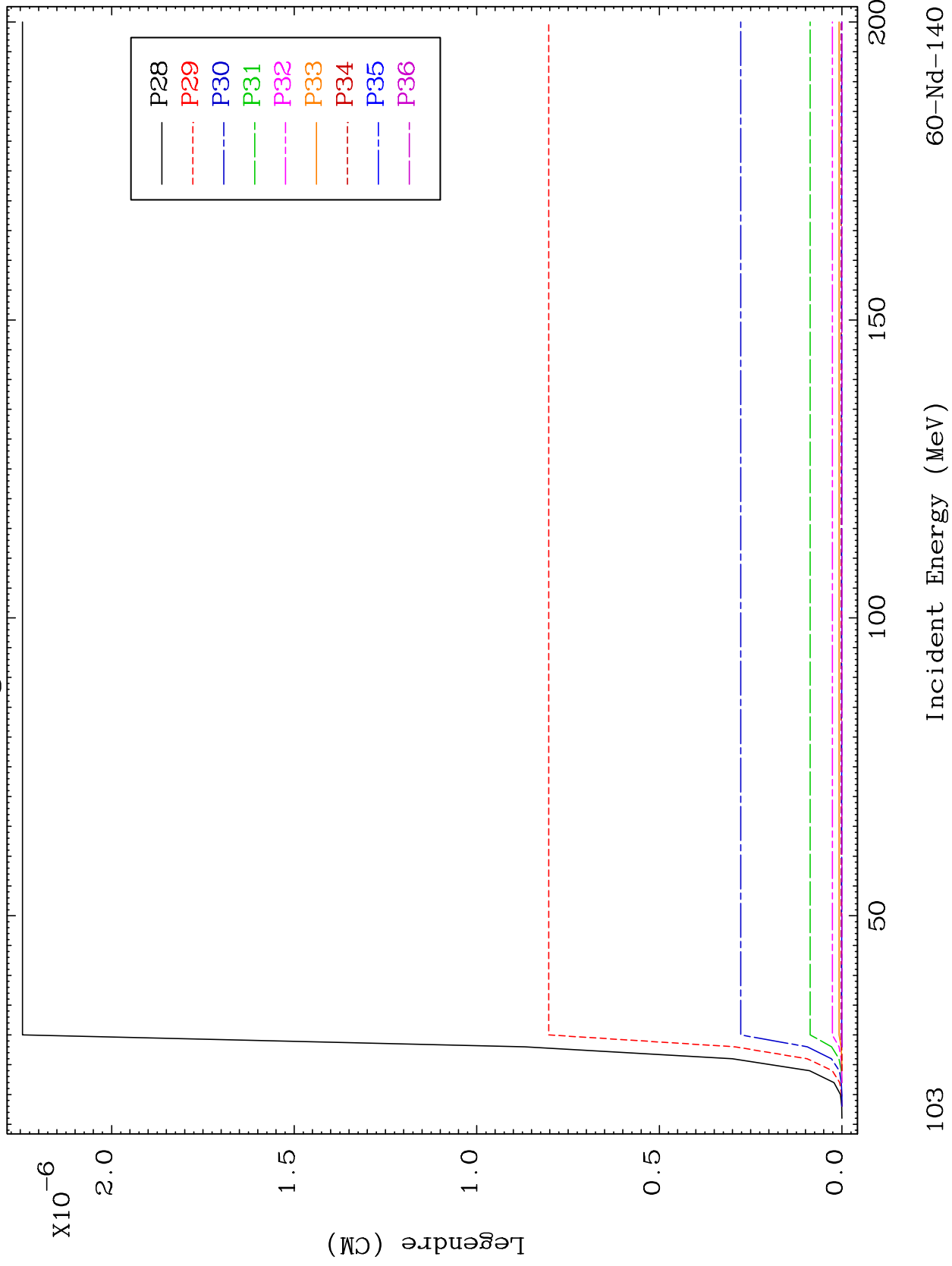


102

MAT 6019

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

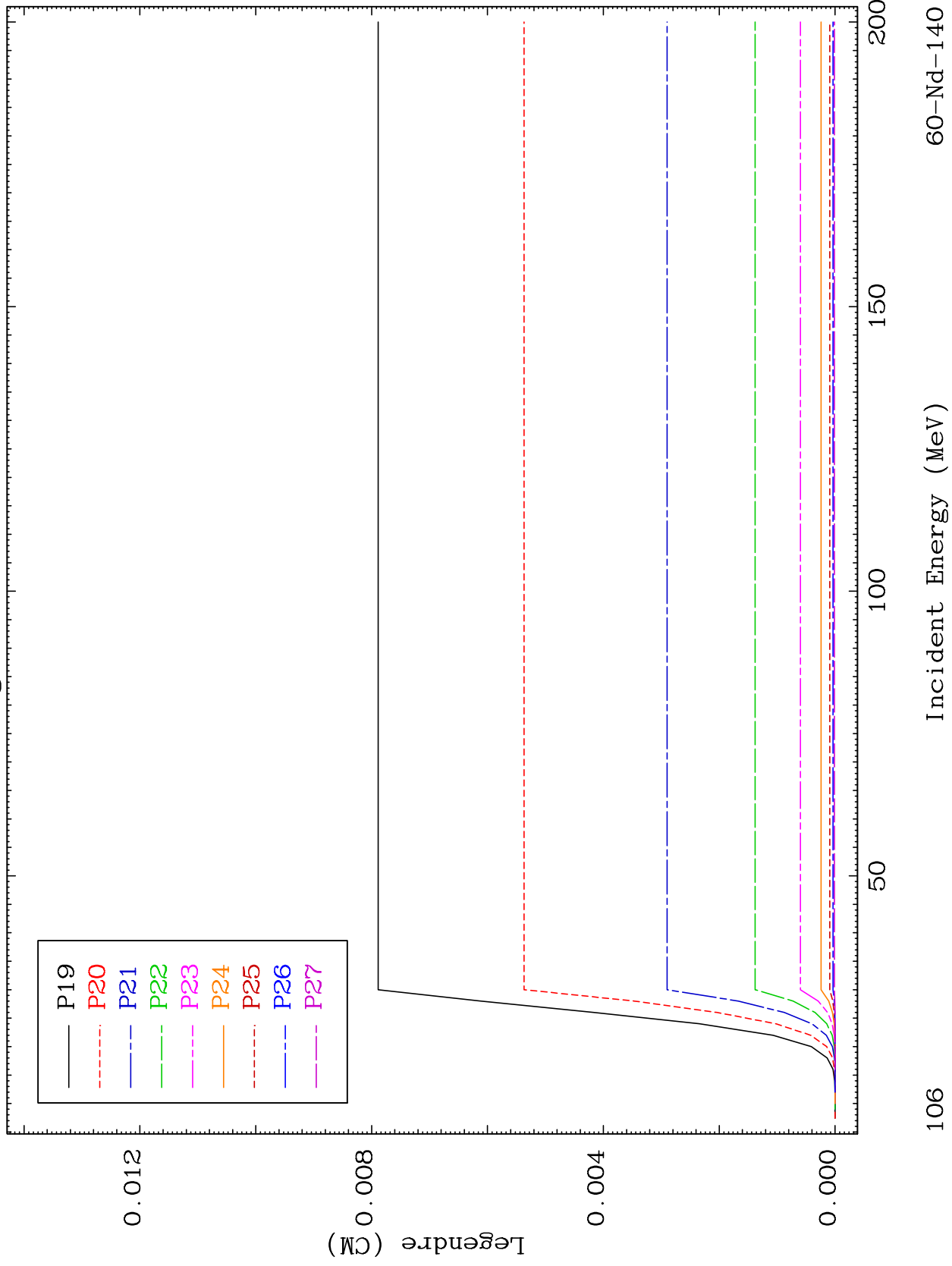
60-Nd-140



MAT 6019

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

60-Nd-140



106

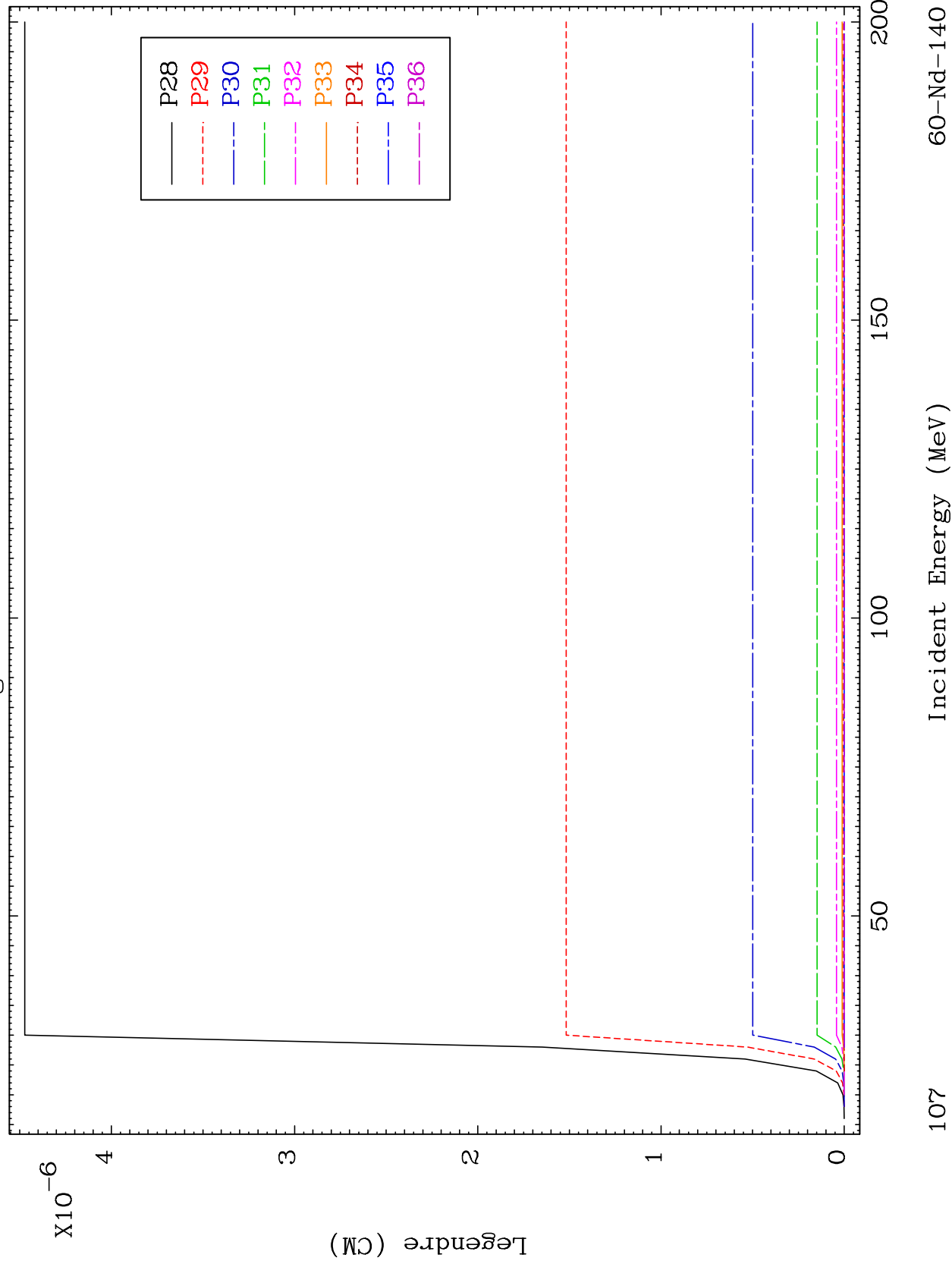
Incident Energy (MeV)

60-Nd-140

MAT 6019

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

60-Nd-140



107

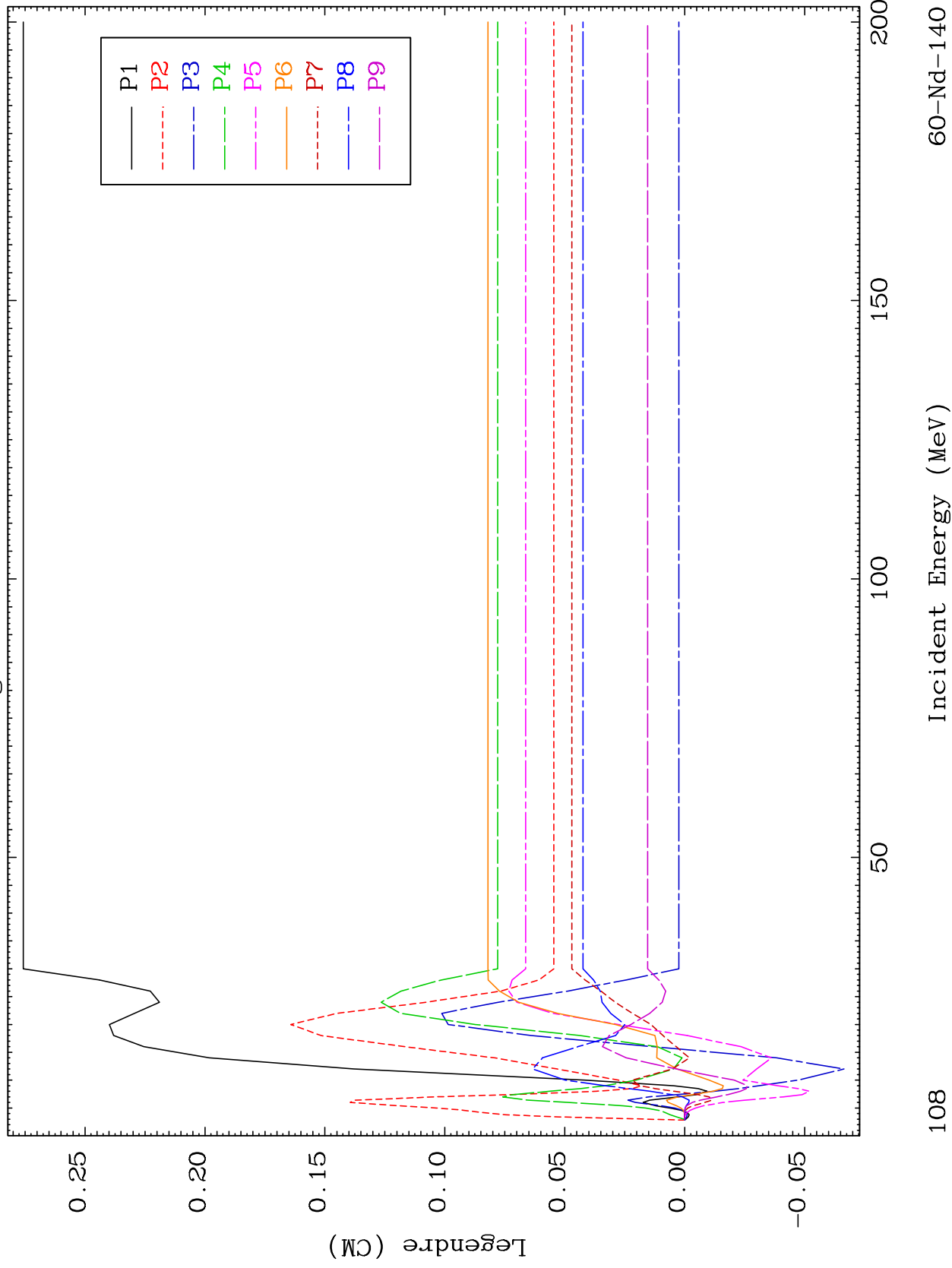
Incident Energy (MeV)

60-Nd-140

MAT 6019

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

60-Nd-140



60-Nd-140

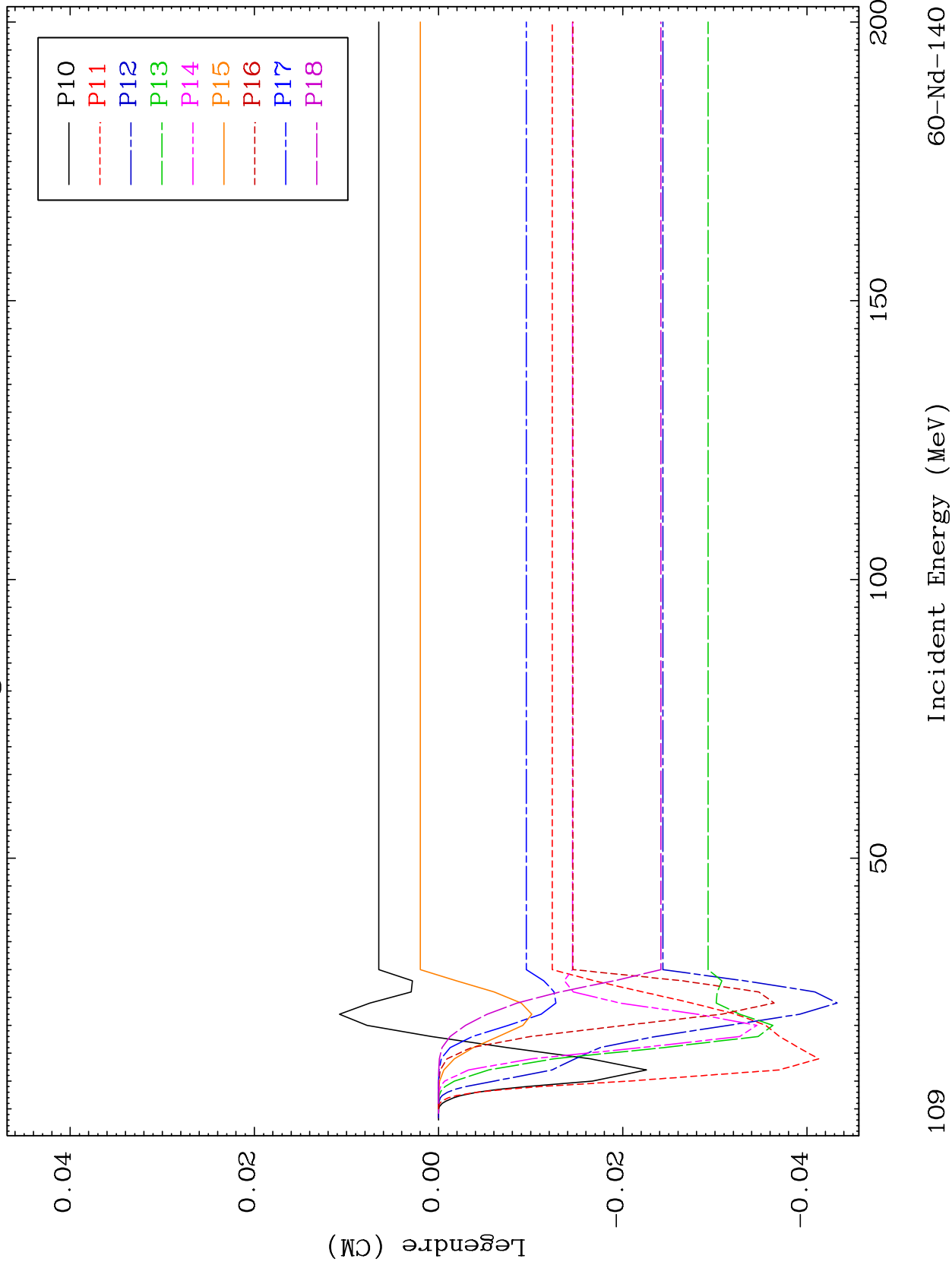
Incident Energy (MeV)

108

MAT 6019

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

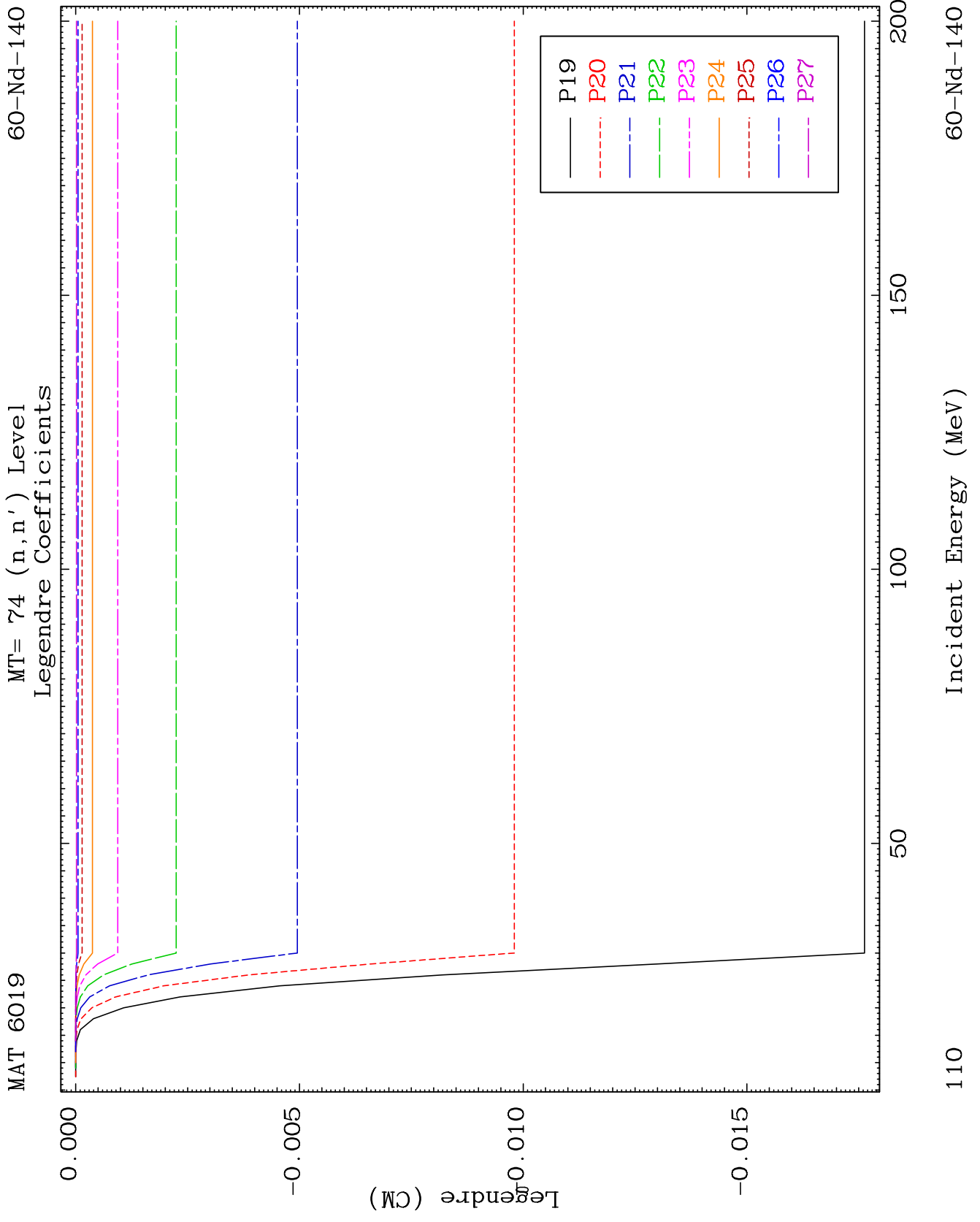
60-Nd-140

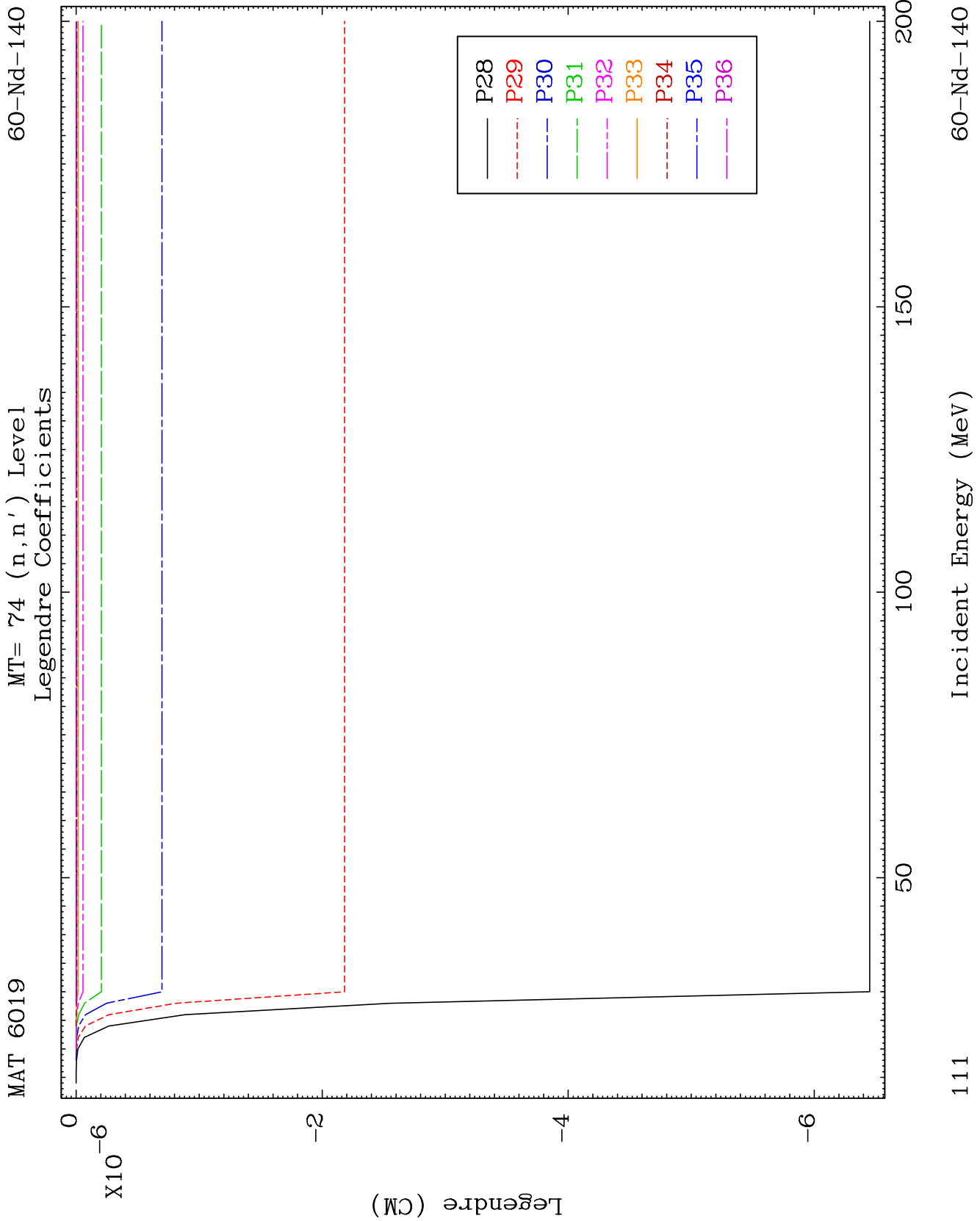


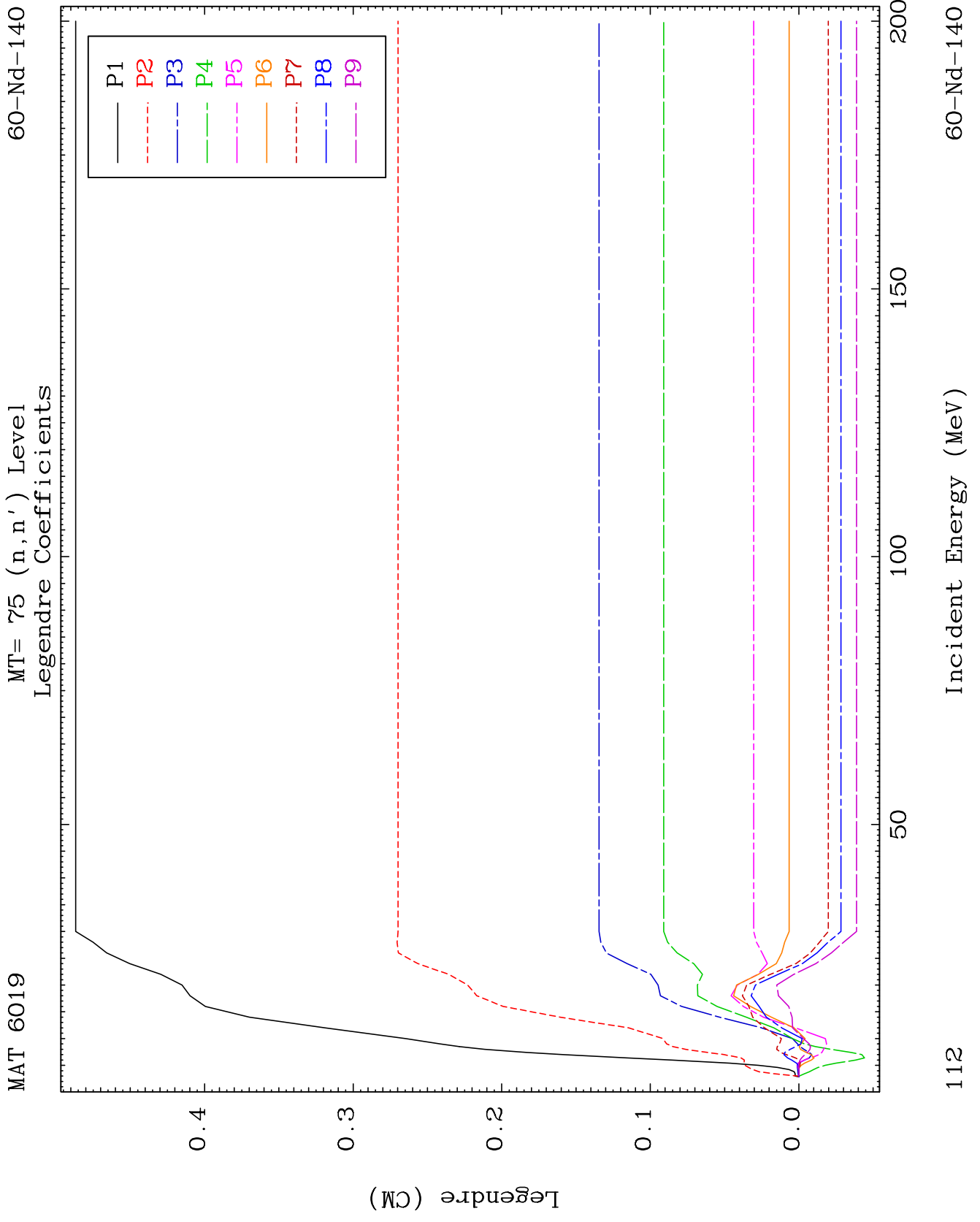
109

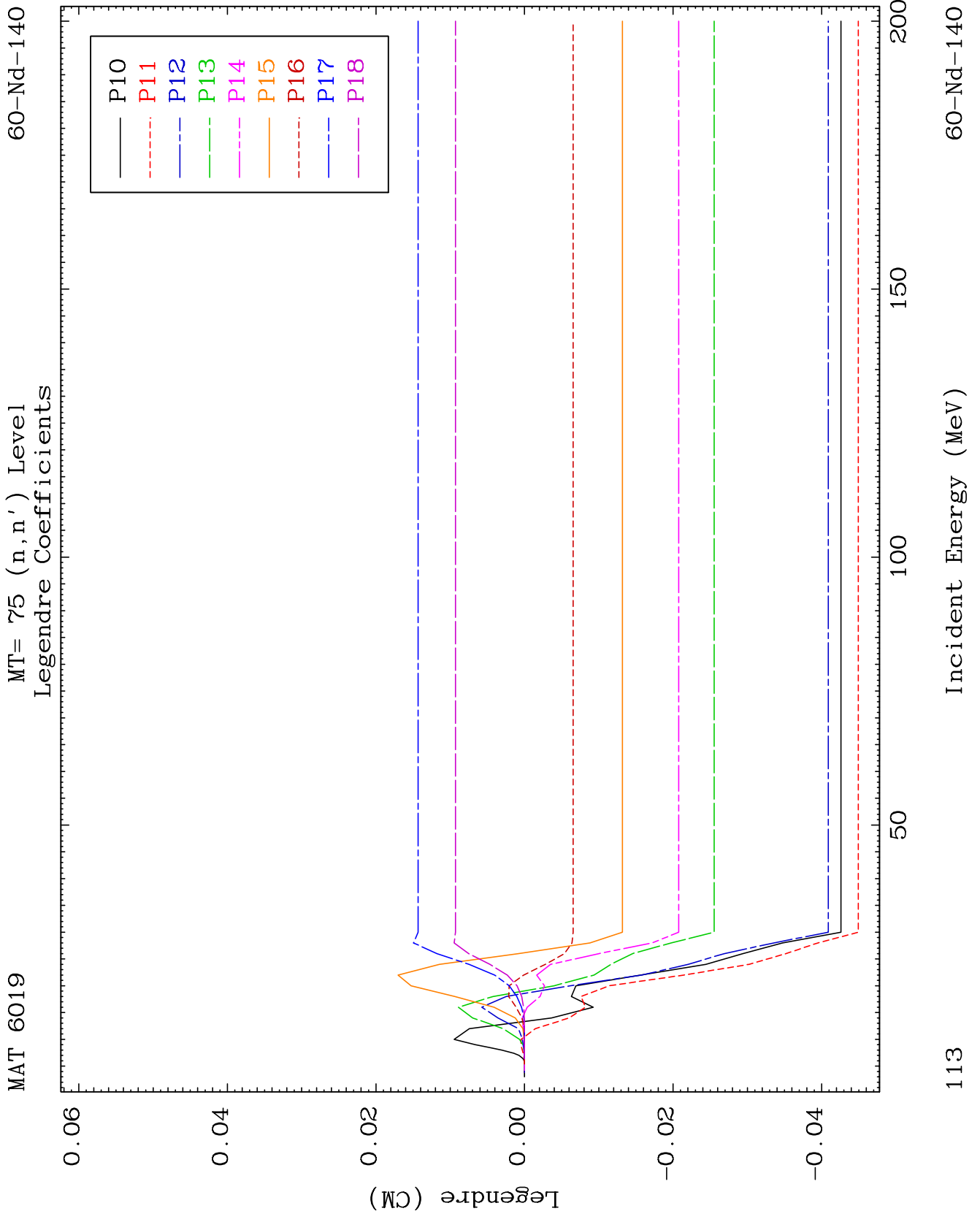
Incident Energy (MeV)

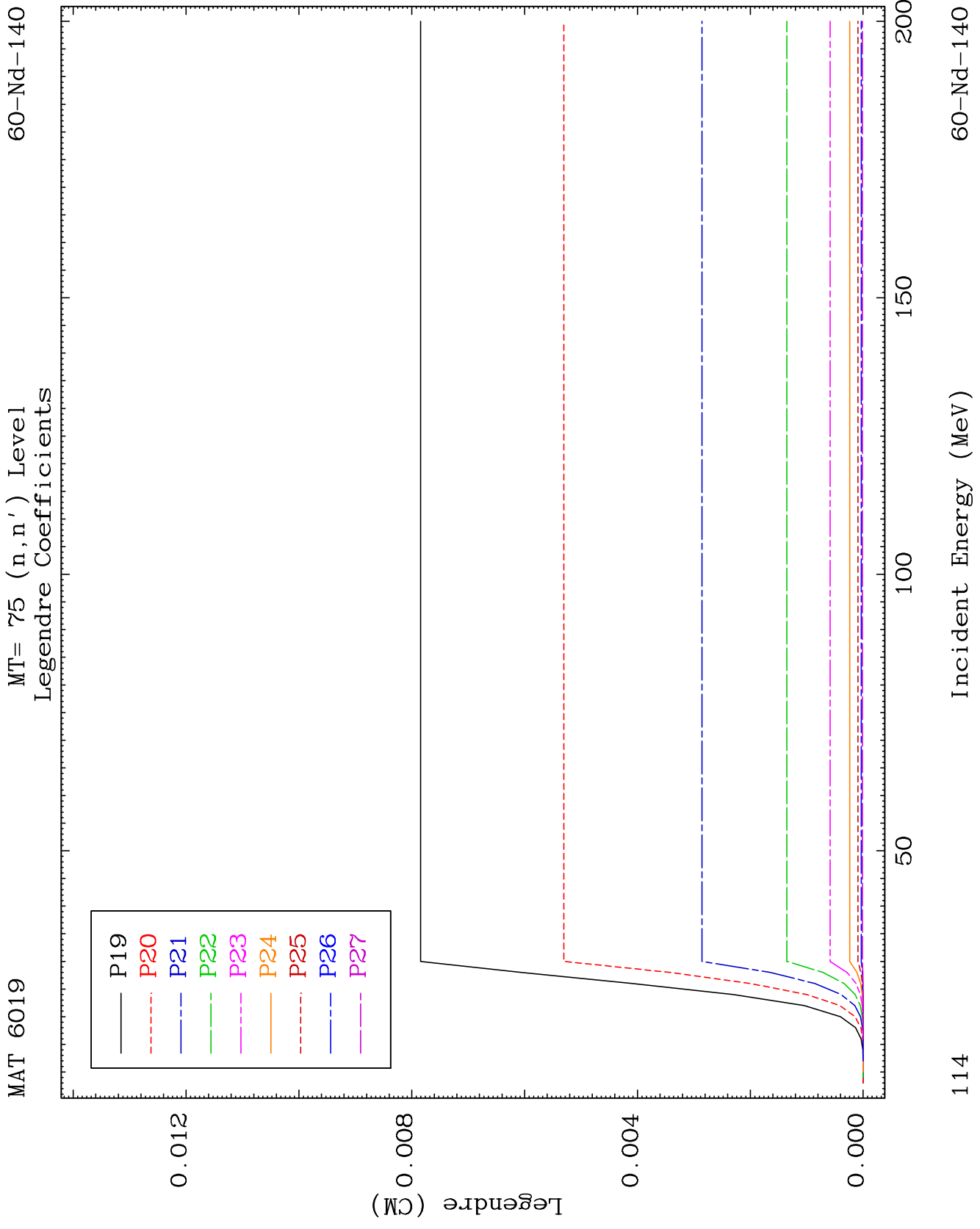
60-Nd-140

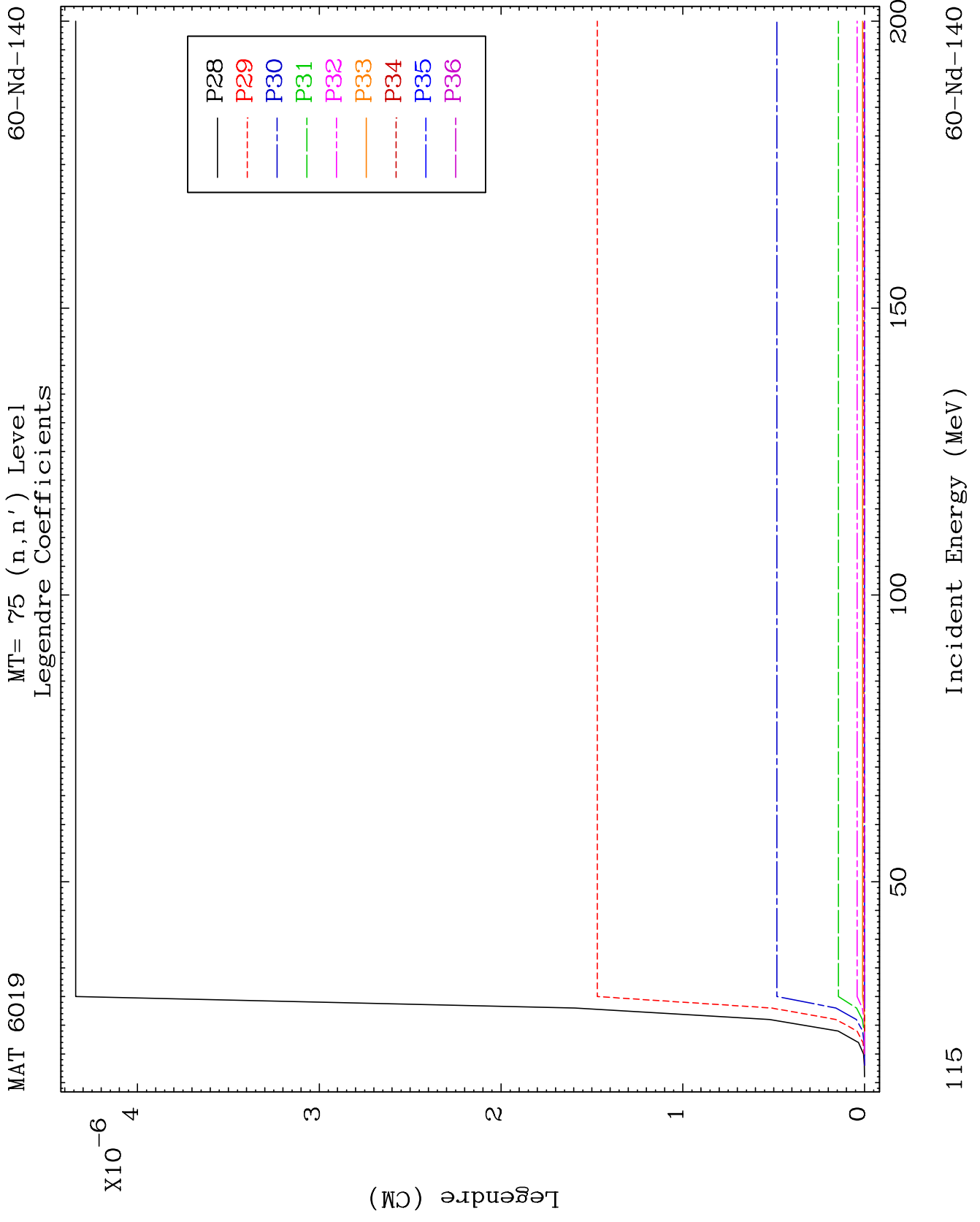


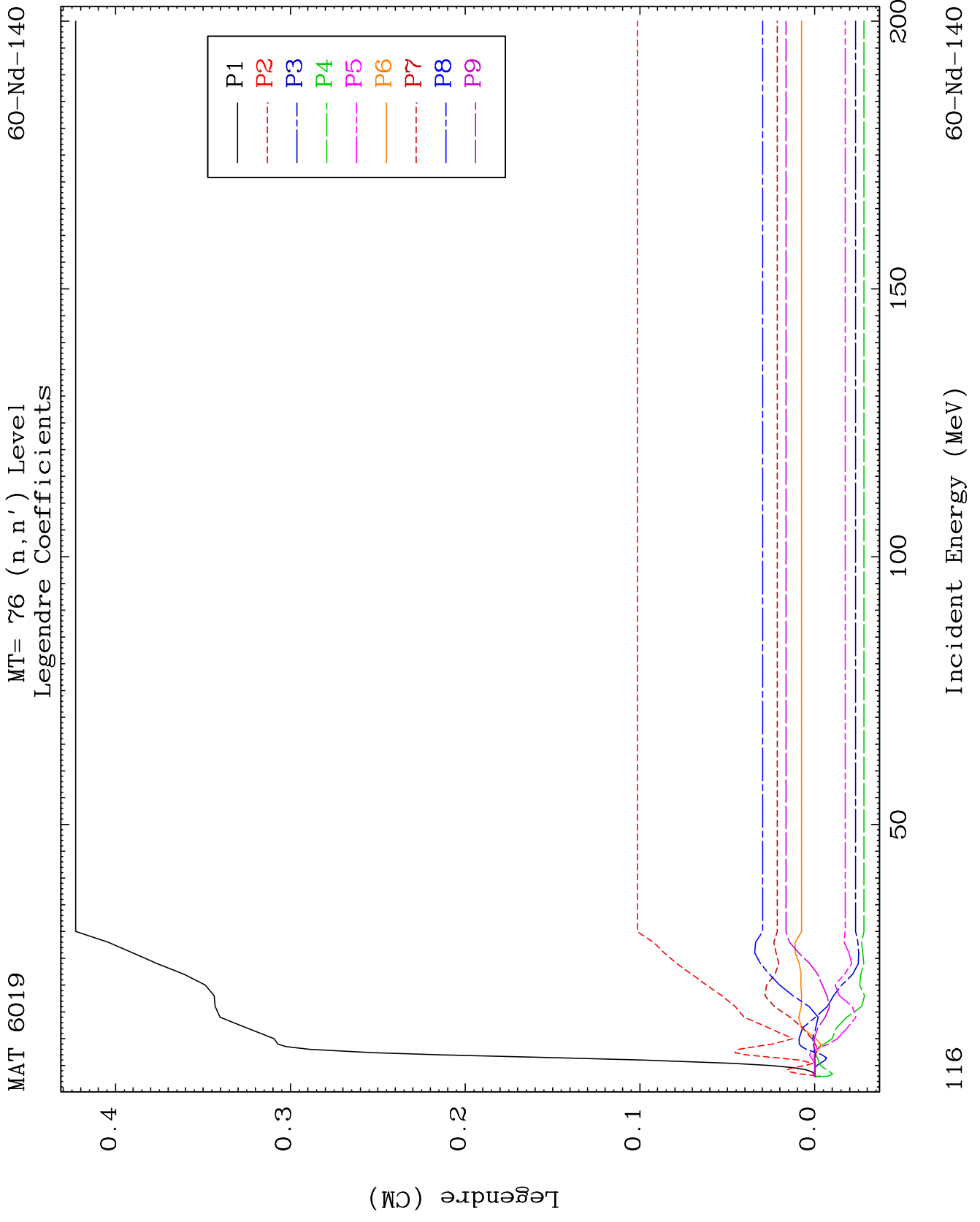








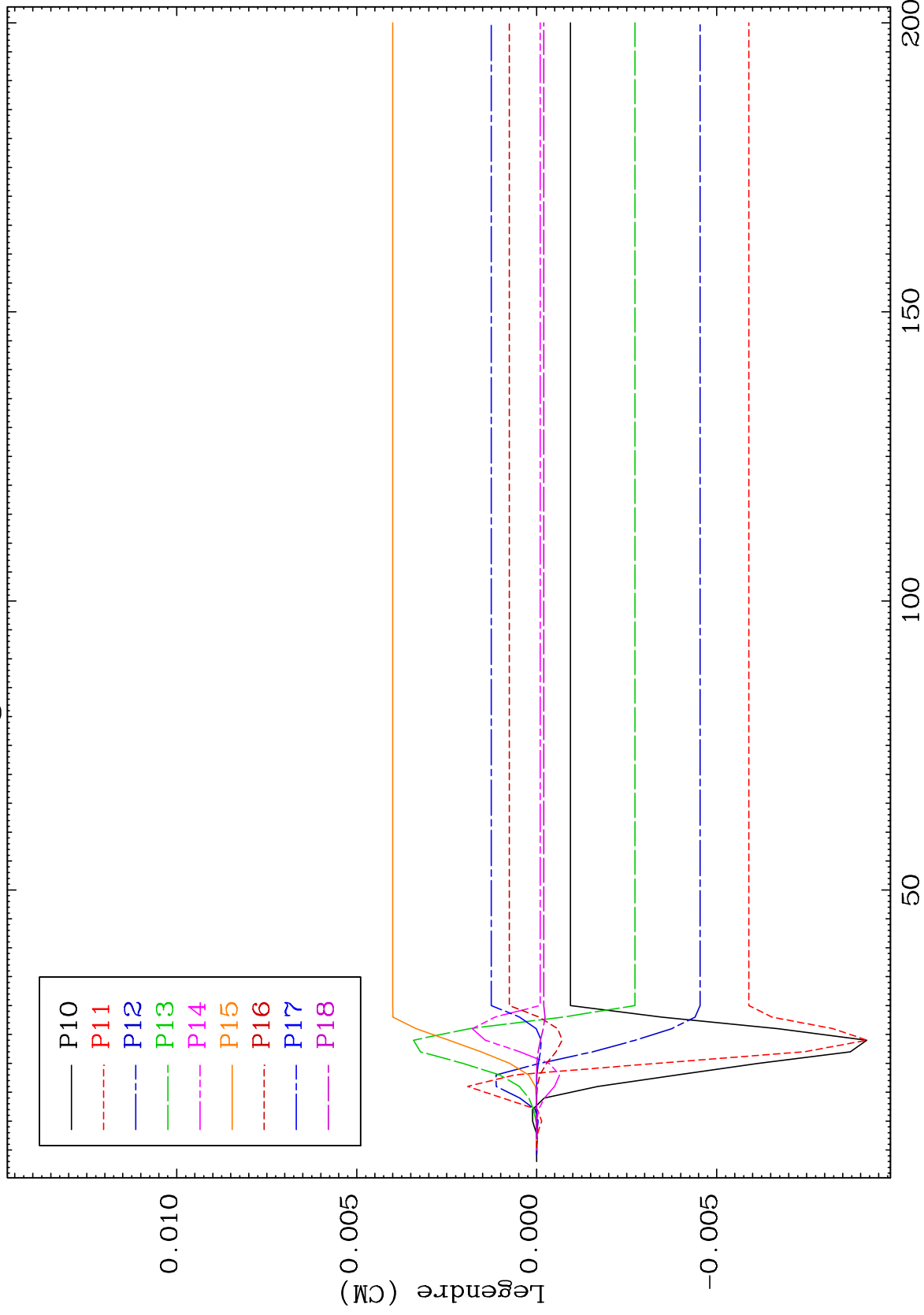




MAT 6019

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

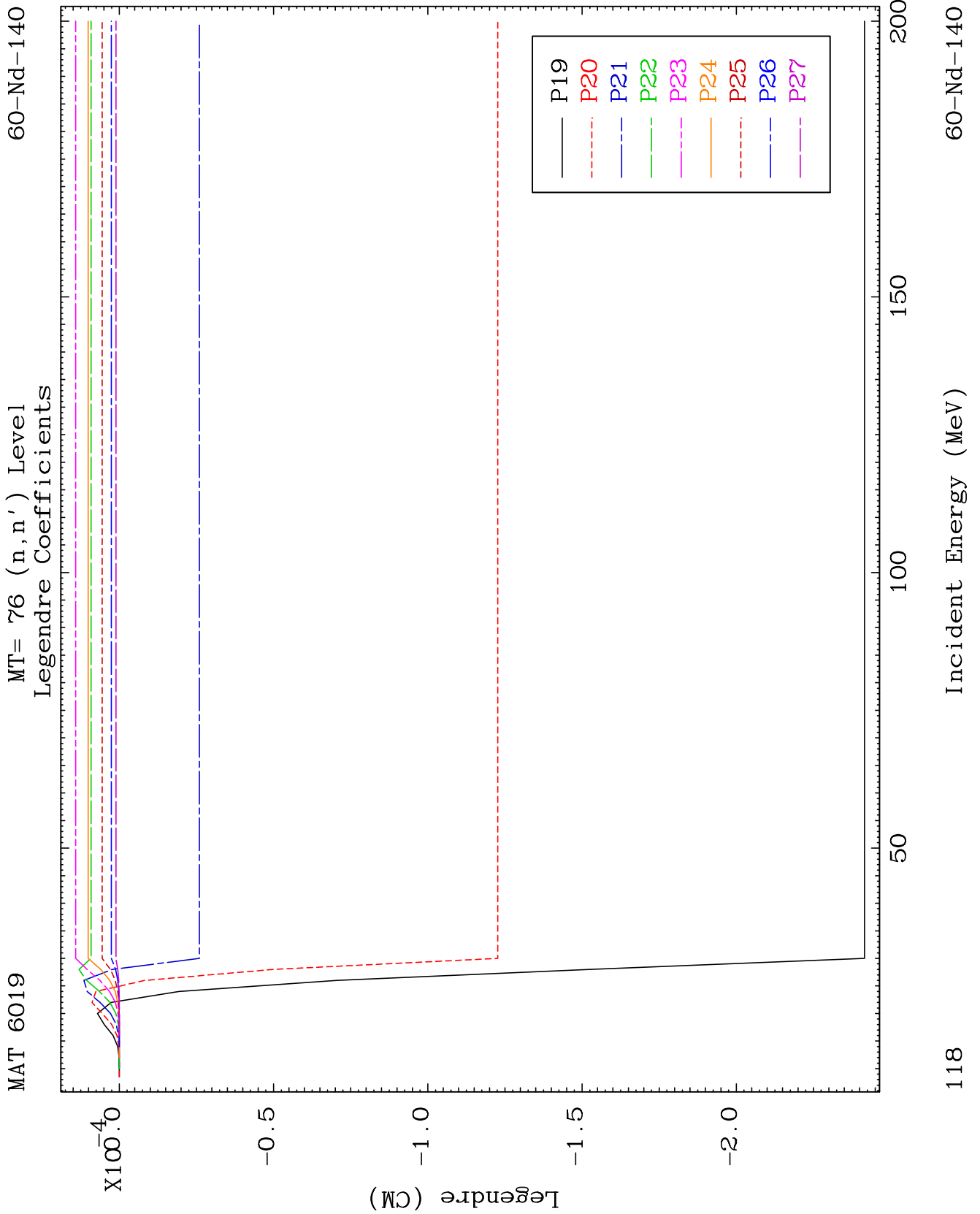
60-Nd-140



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Incident Energy (MeV)

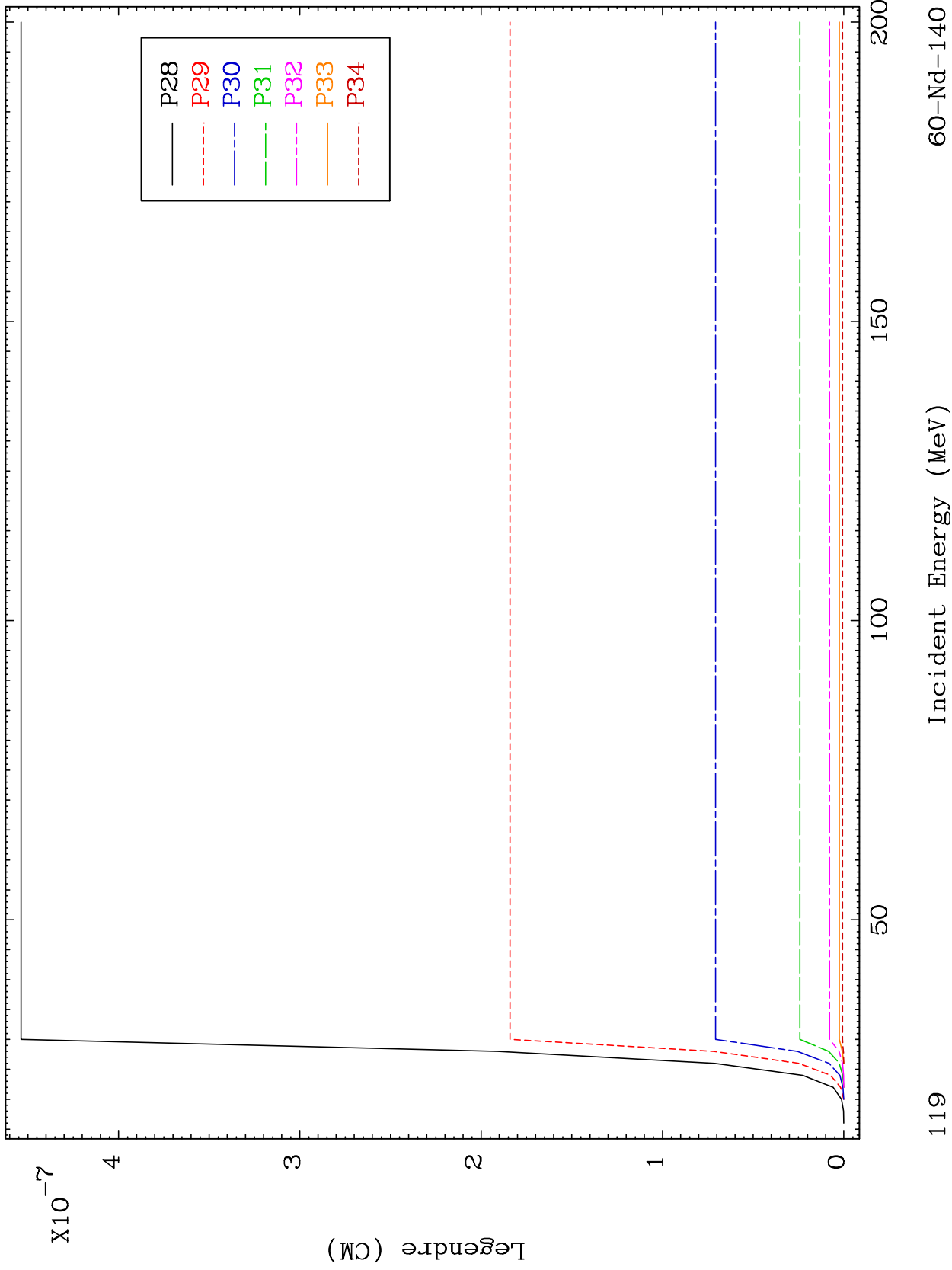
60-Nd-140



MAT 6019

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

60-Nd-140

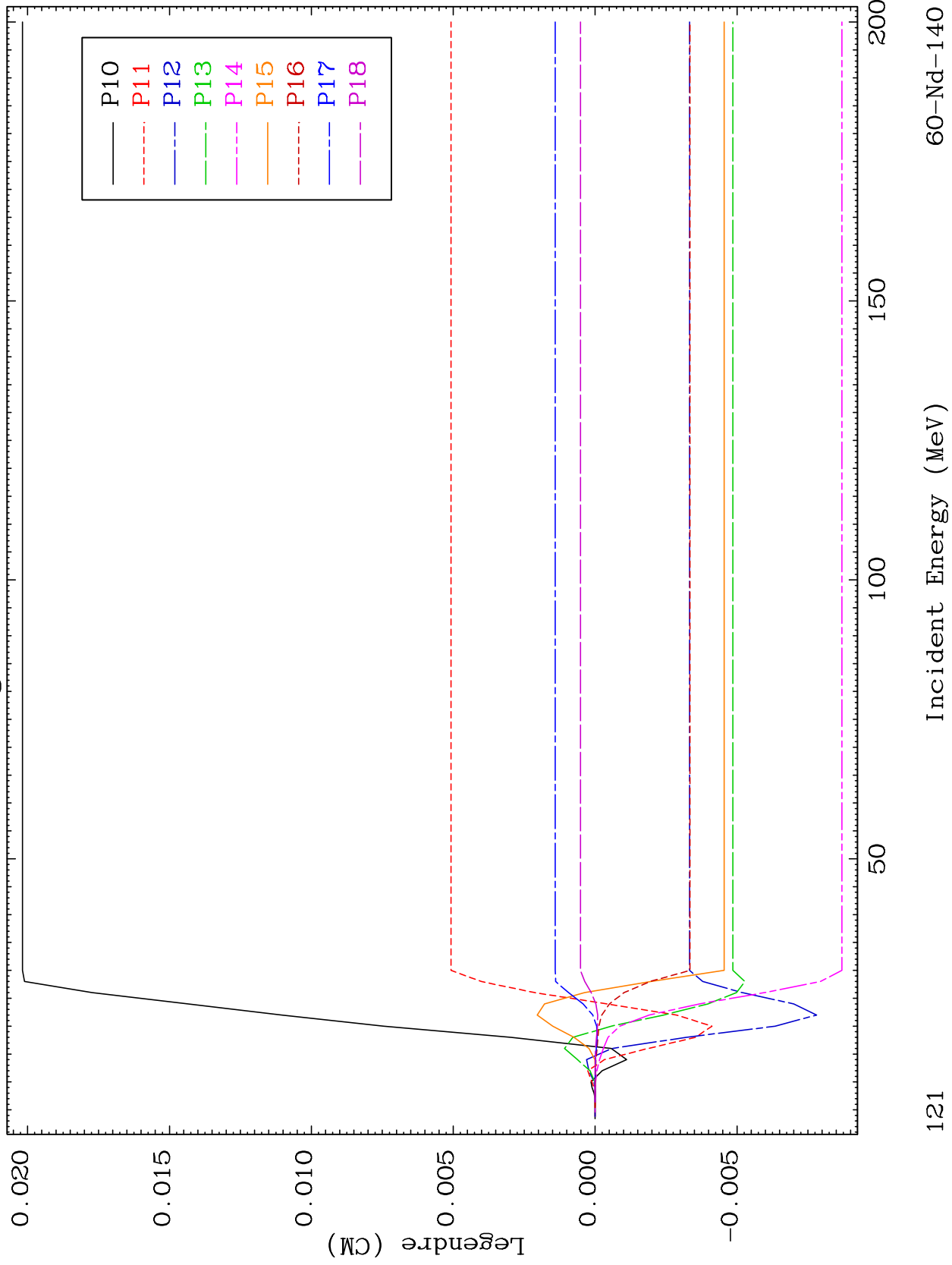


119

MAT 6019

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

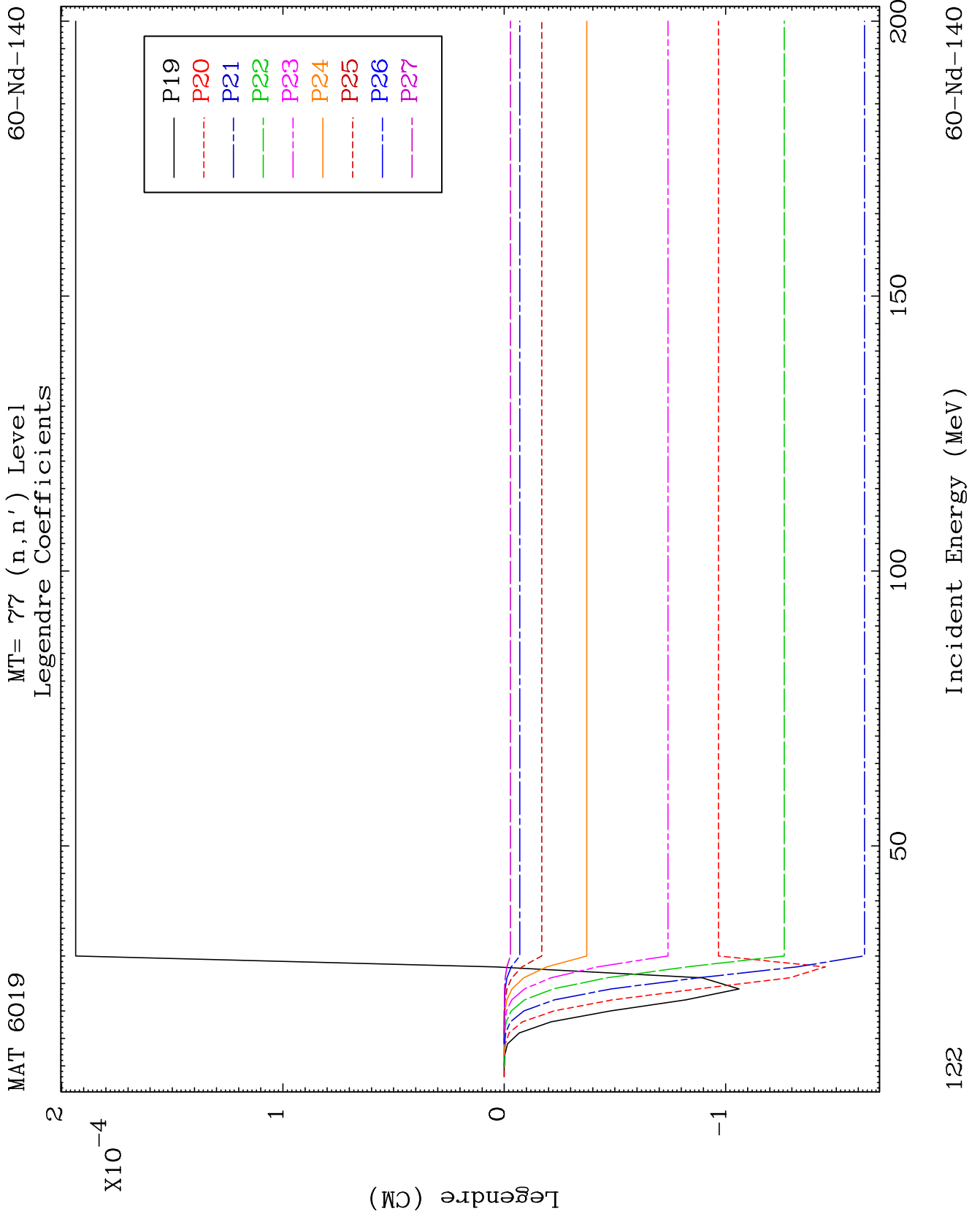
60-Nd-140

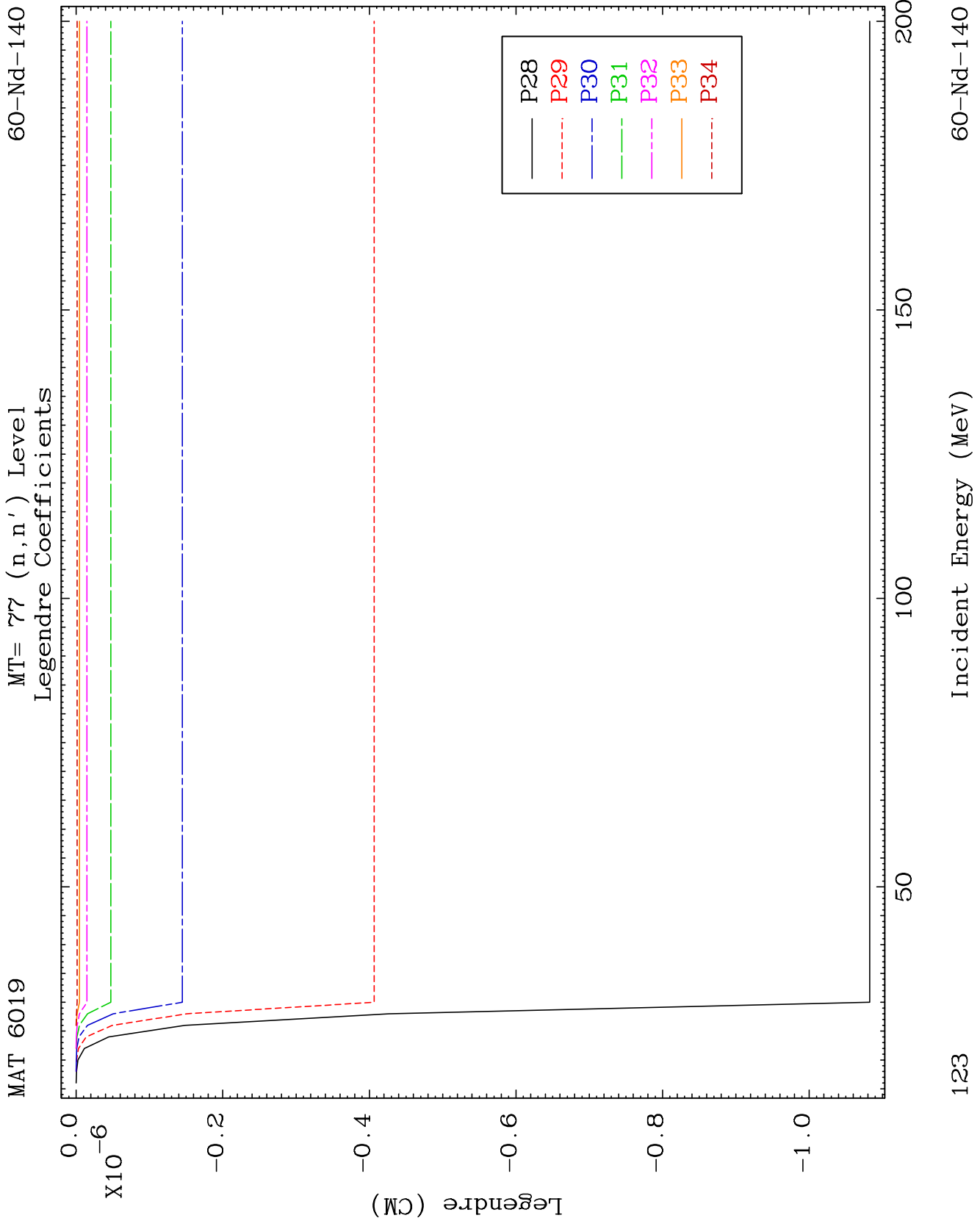


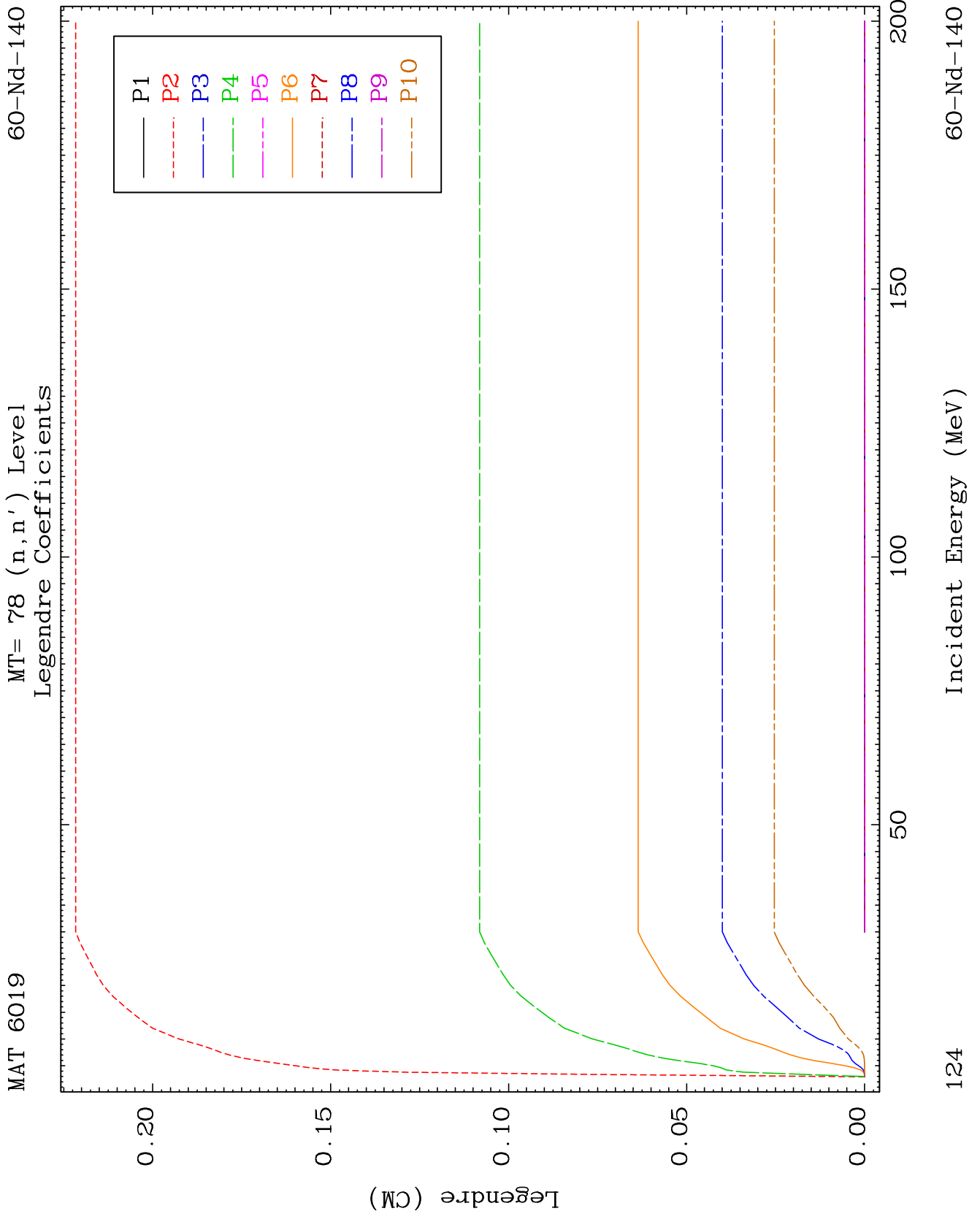
121

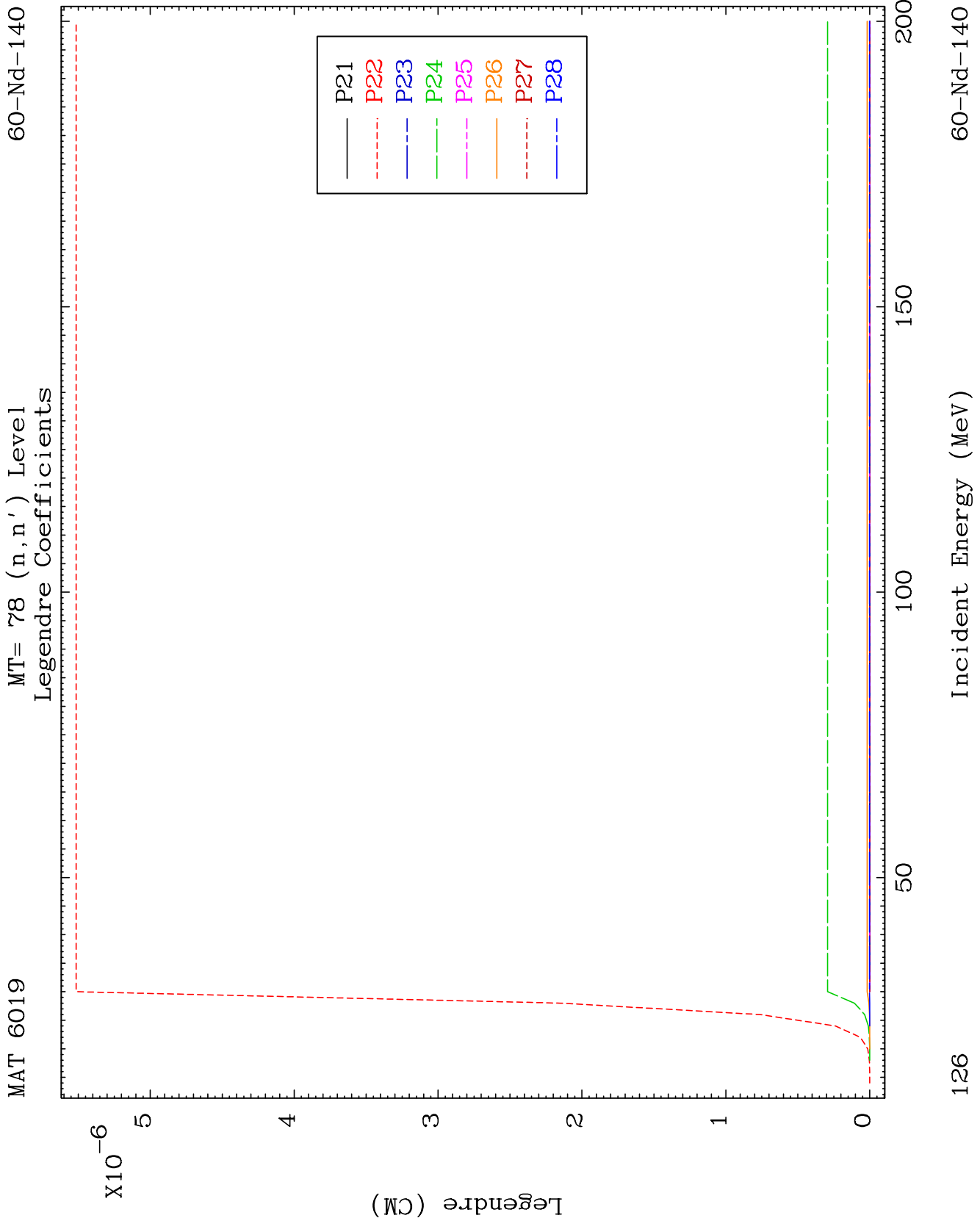
Incident Energy (MeV)

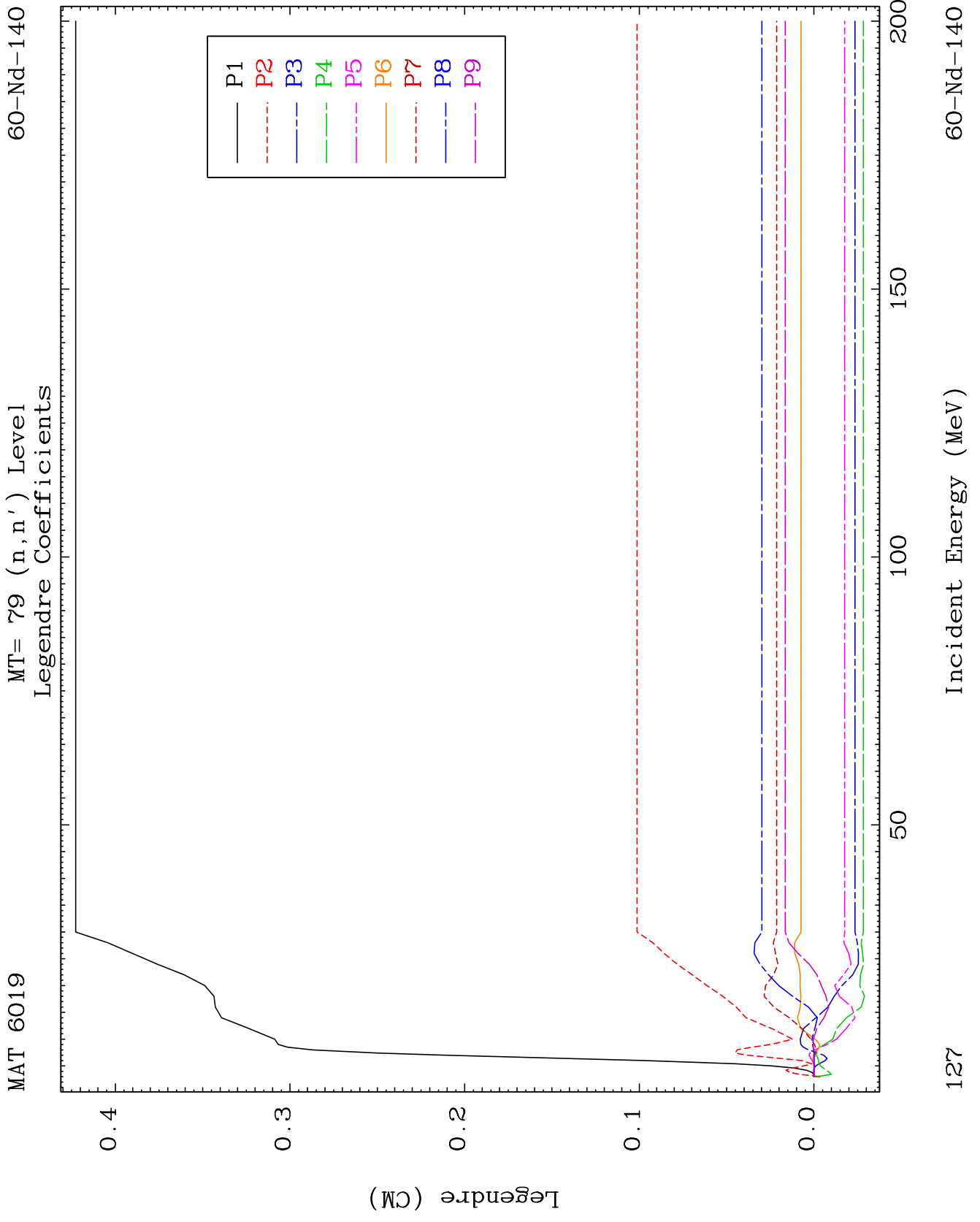
60-Nd-140







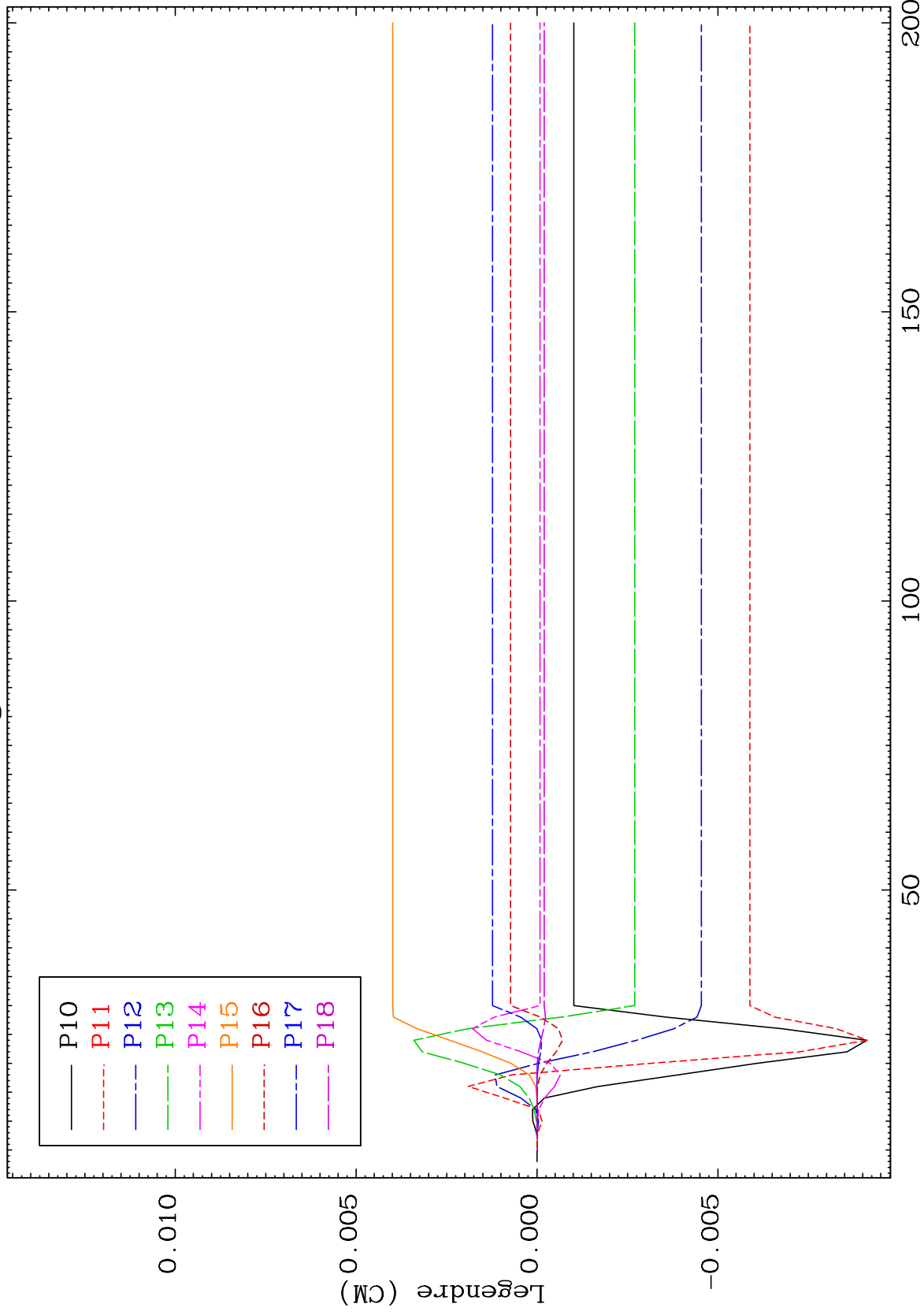




MAT 6019

MT= 79 (n,n') Level
Legendre Coefficients

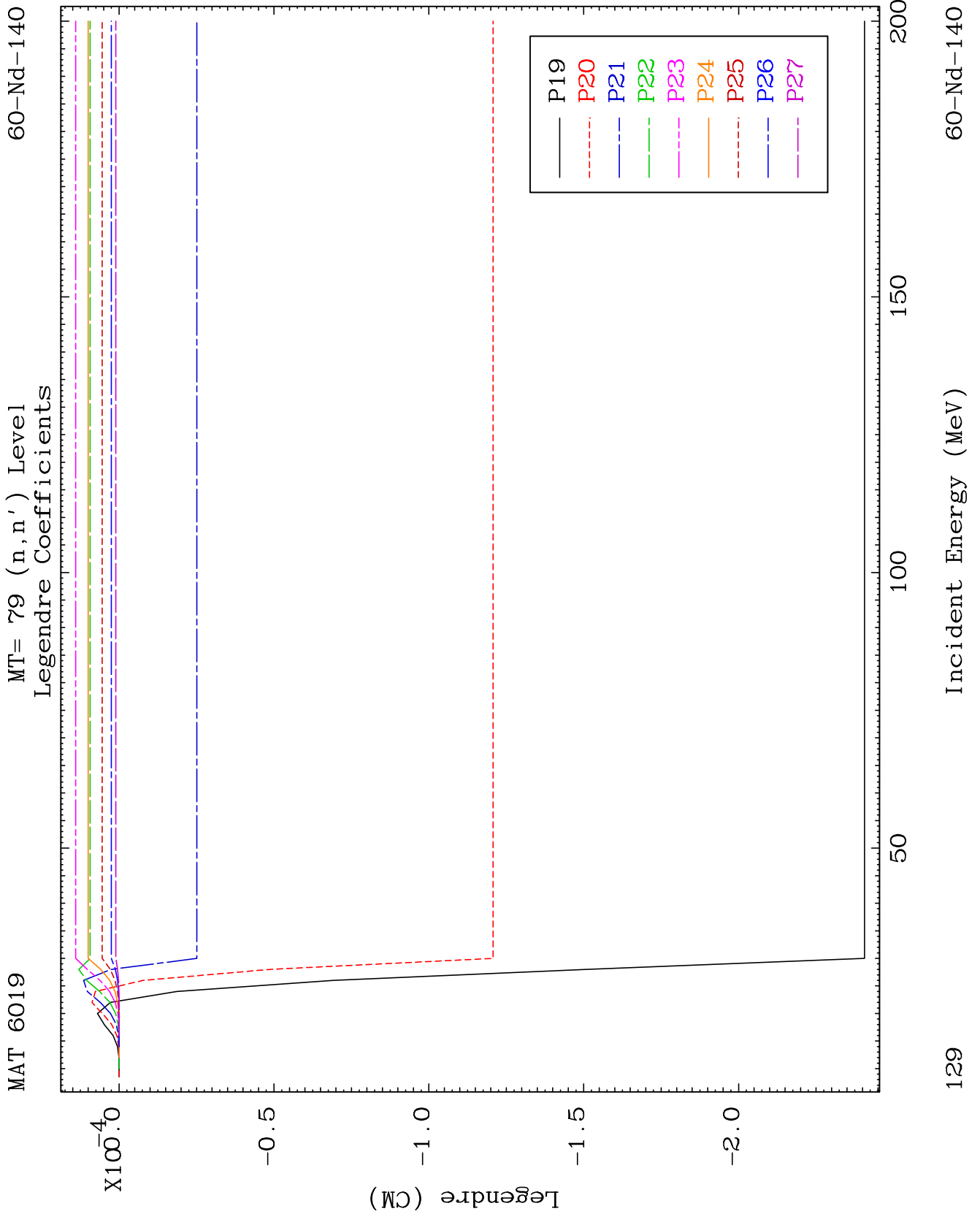
60-Nd-140

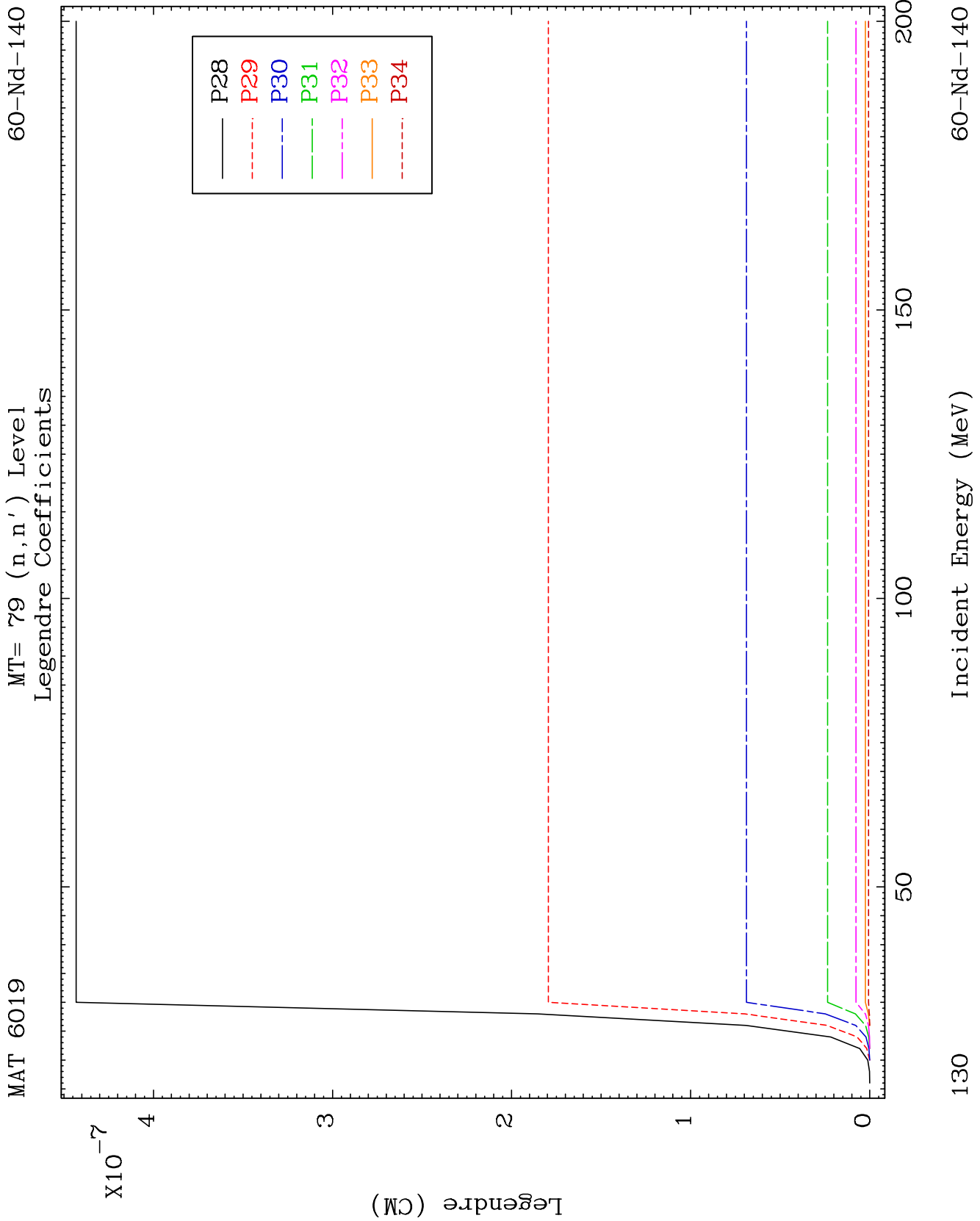


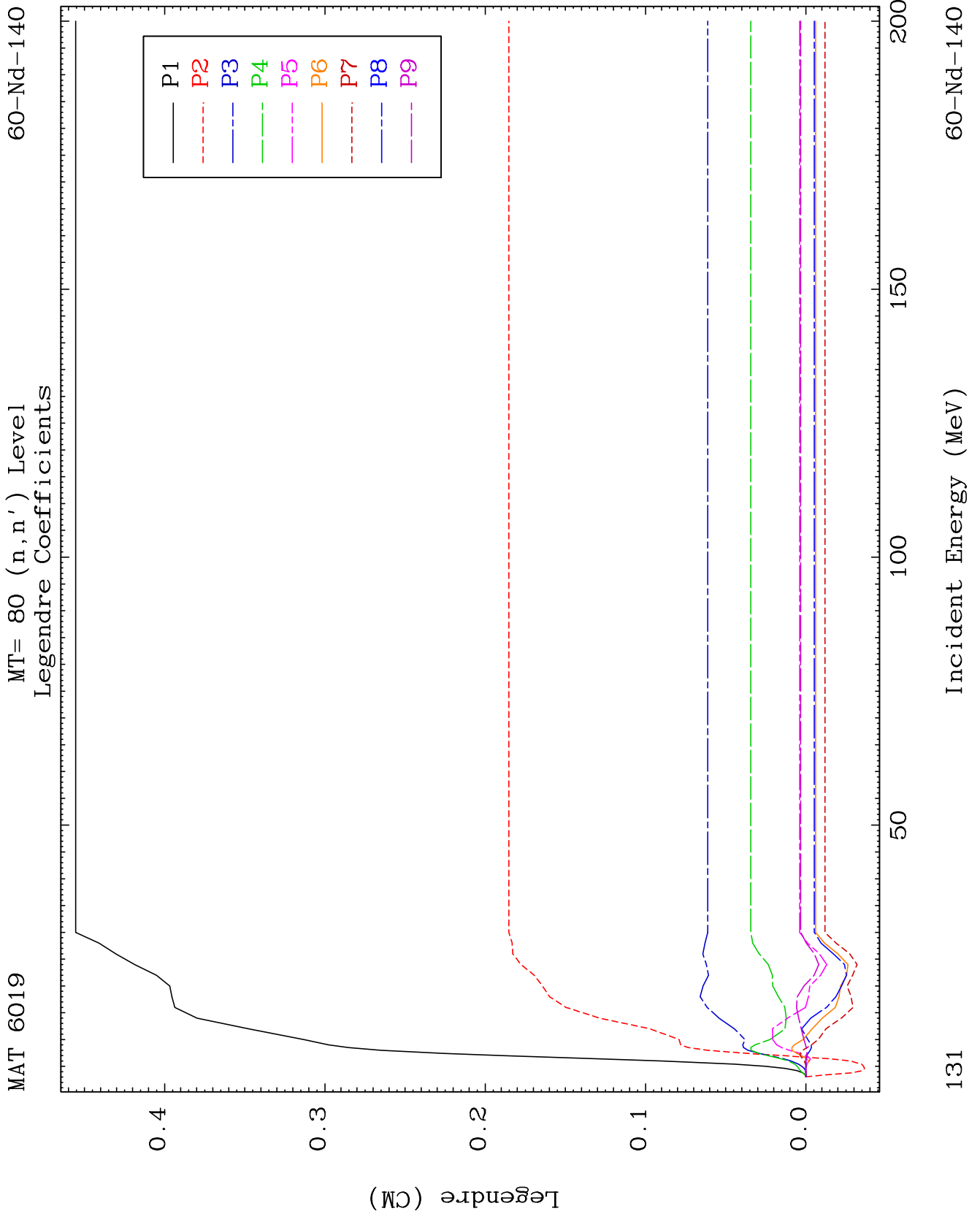
128

Incident Energy (MeV)

60-Nd-140



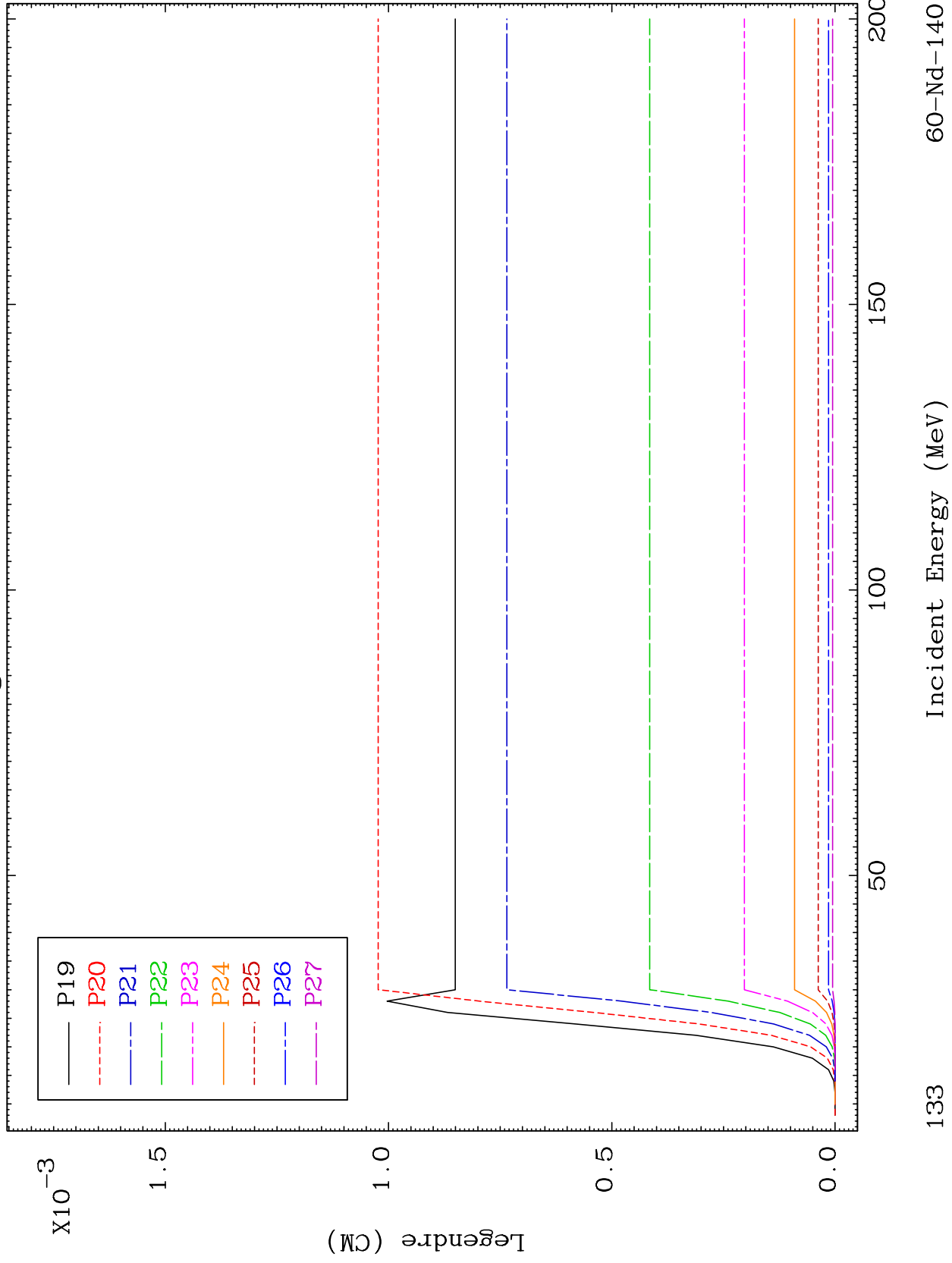




MAT 6019

MT= 80 (n,n') Level
Legendre Coefficients

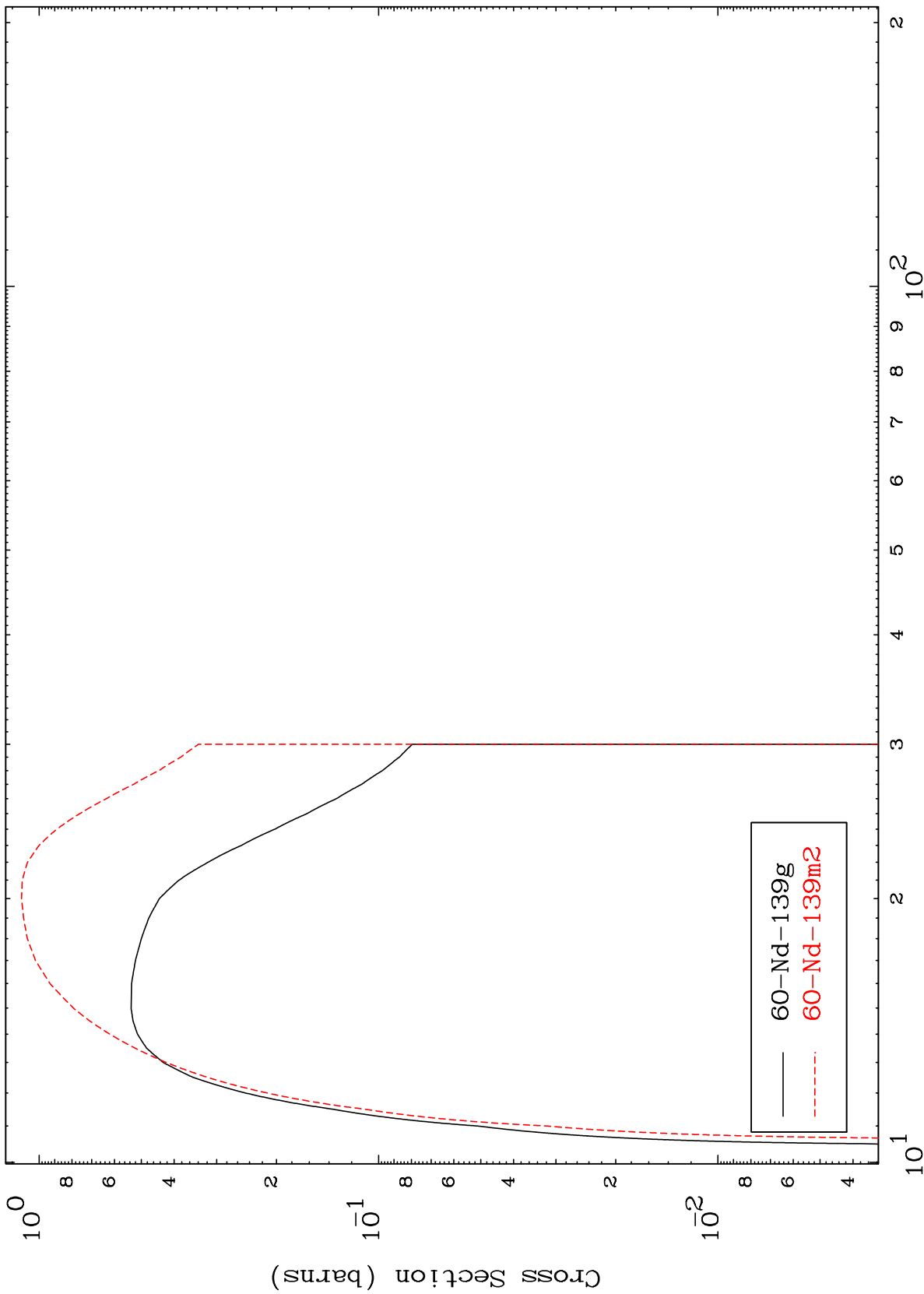
60-Nd-140



MAT 6019

60-Nd-140

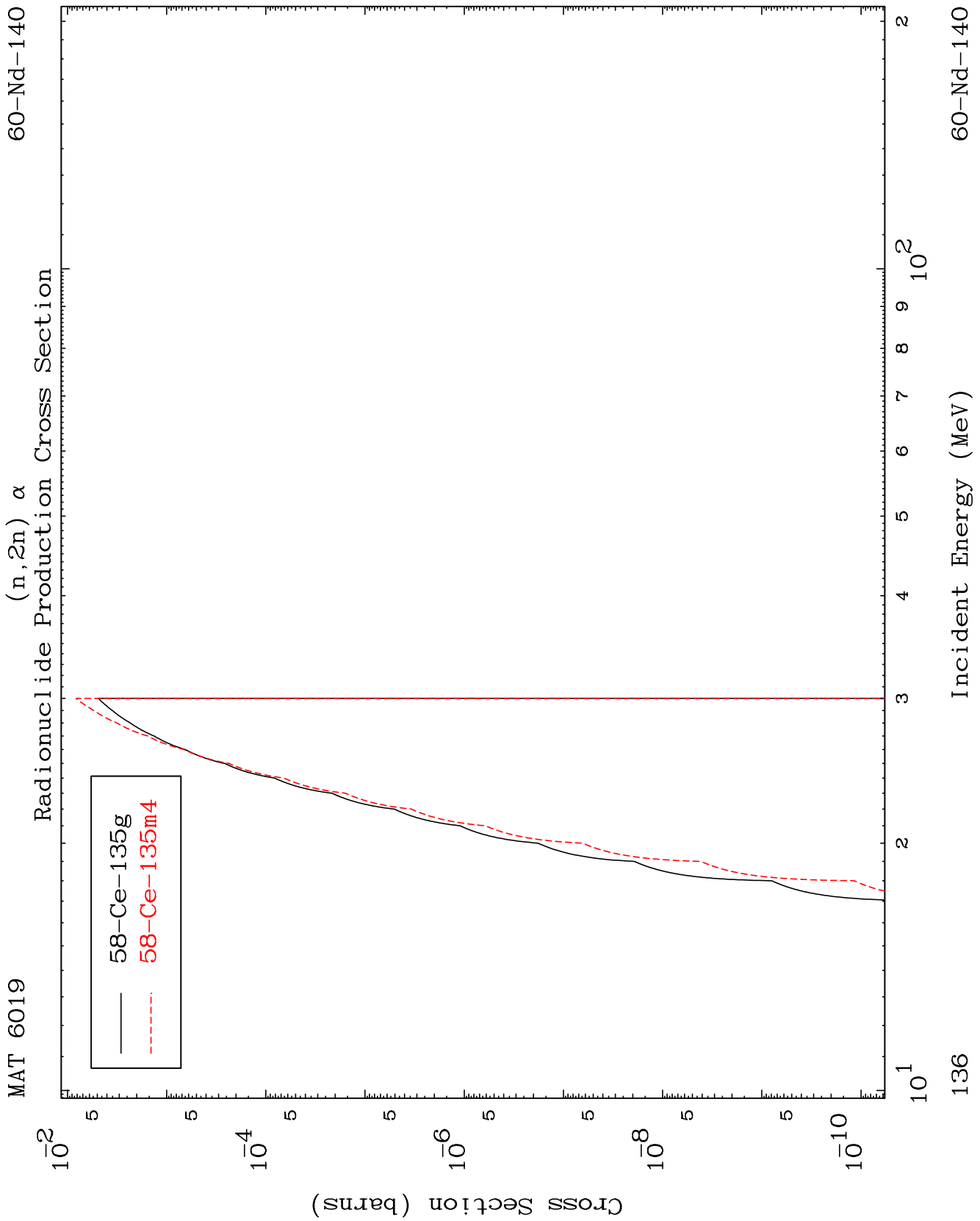
(n,2n)
Radionuclide Production Cross Section



60-Nd-140

Incident Energy (MeV)

135

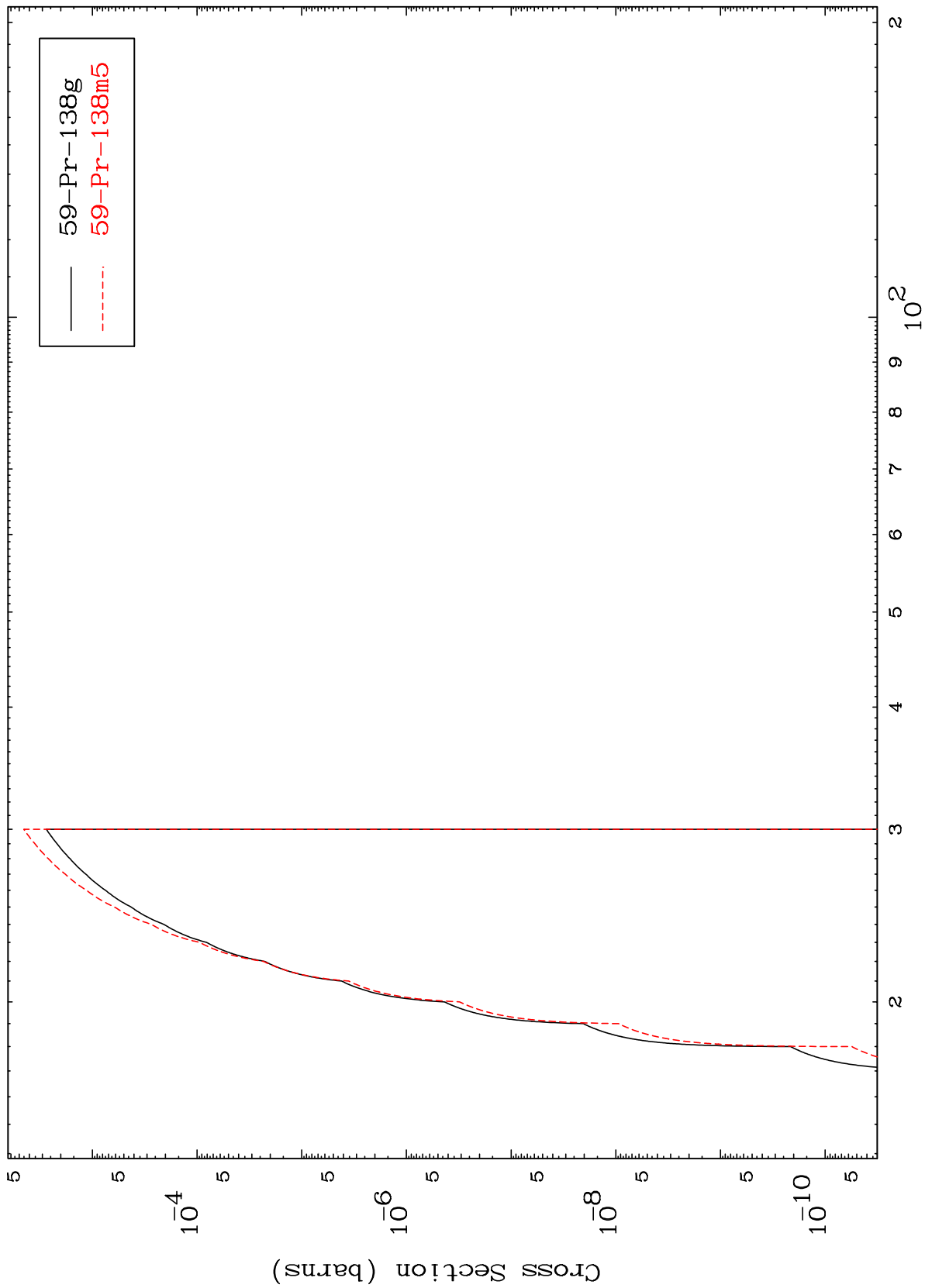


MAT 6019

(n,n') d

60-Nd-140

Radionuclide Production Cross Section



137

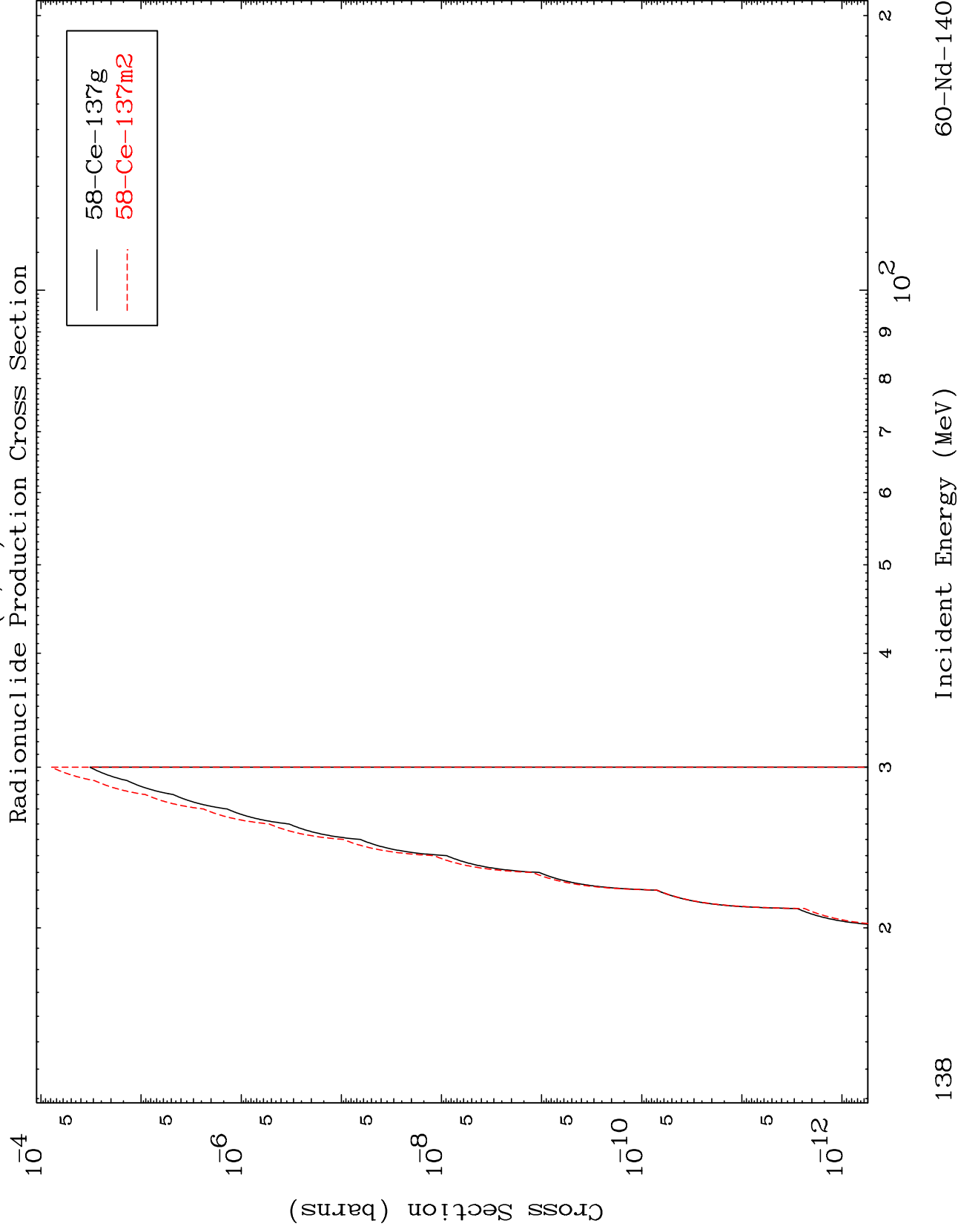
Incident Energy (MeV)

60-Nd-140

MAT 6019

(n,n') He-3

60-Nd-140



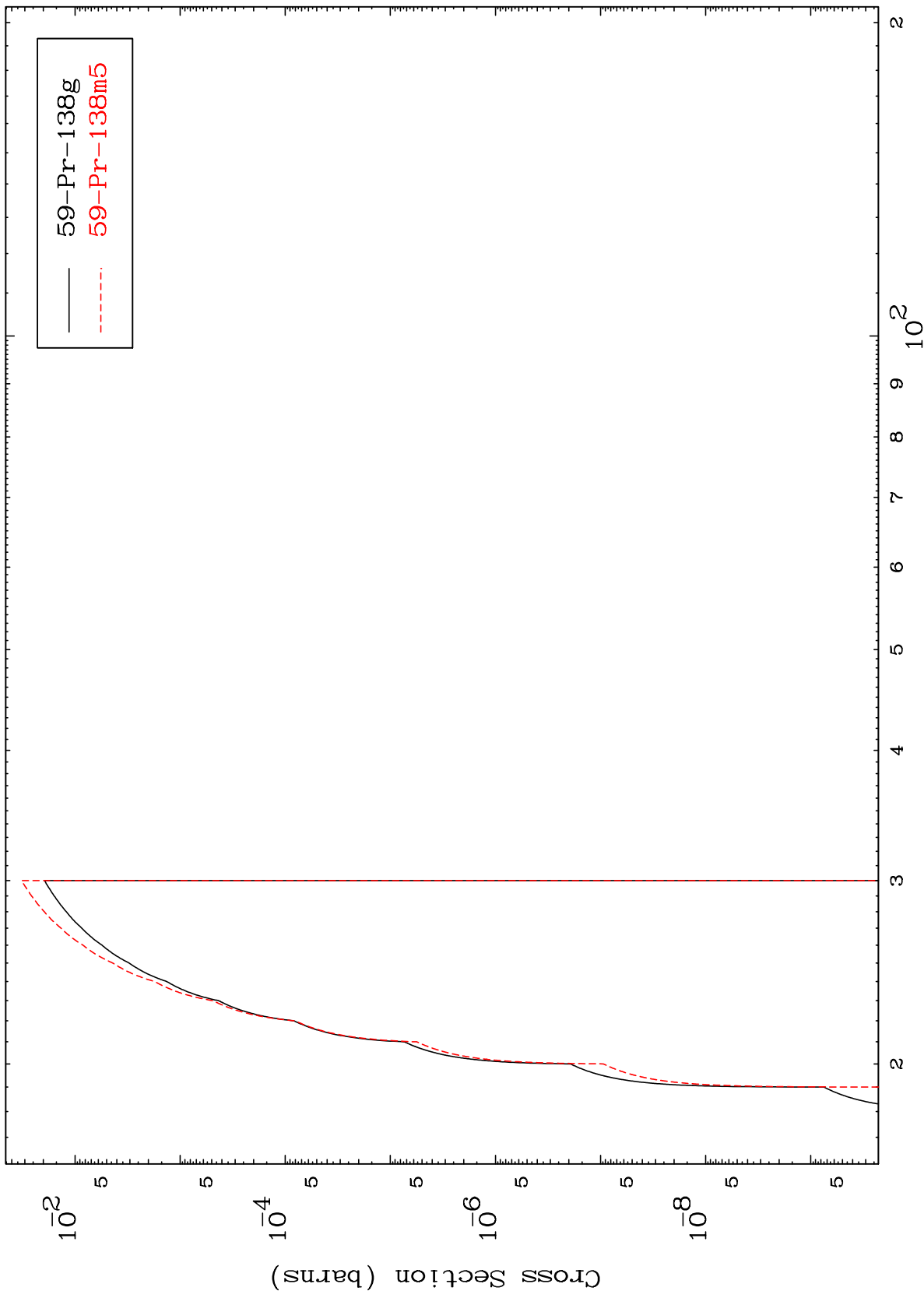
138

60-Nd-140

MAT 6019

60-Nd-140

$(n,2n)$ p
Radionuclide Production Cross Section



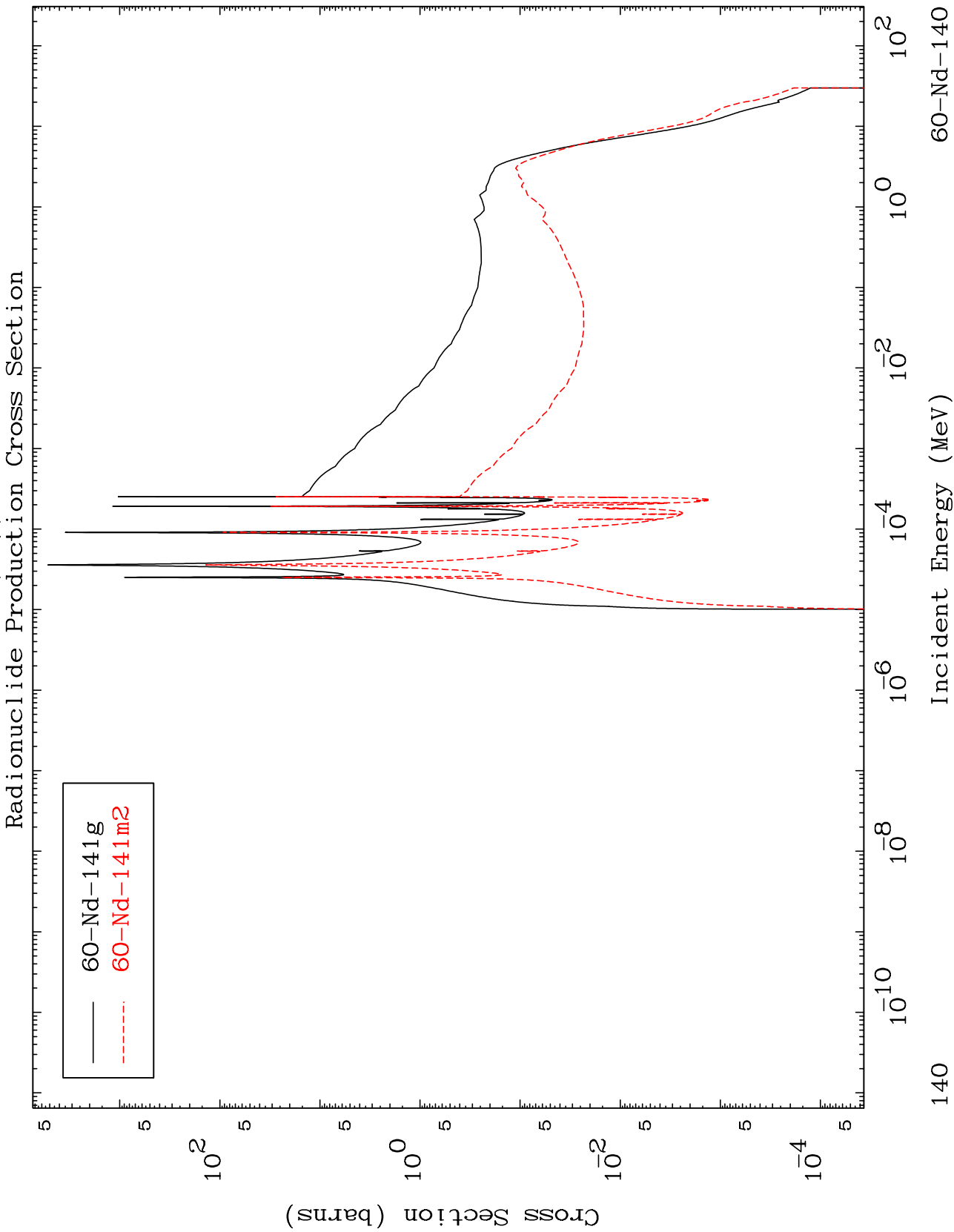
139

Incident Energy (MeV)

60-Nd-140

MAT 6019

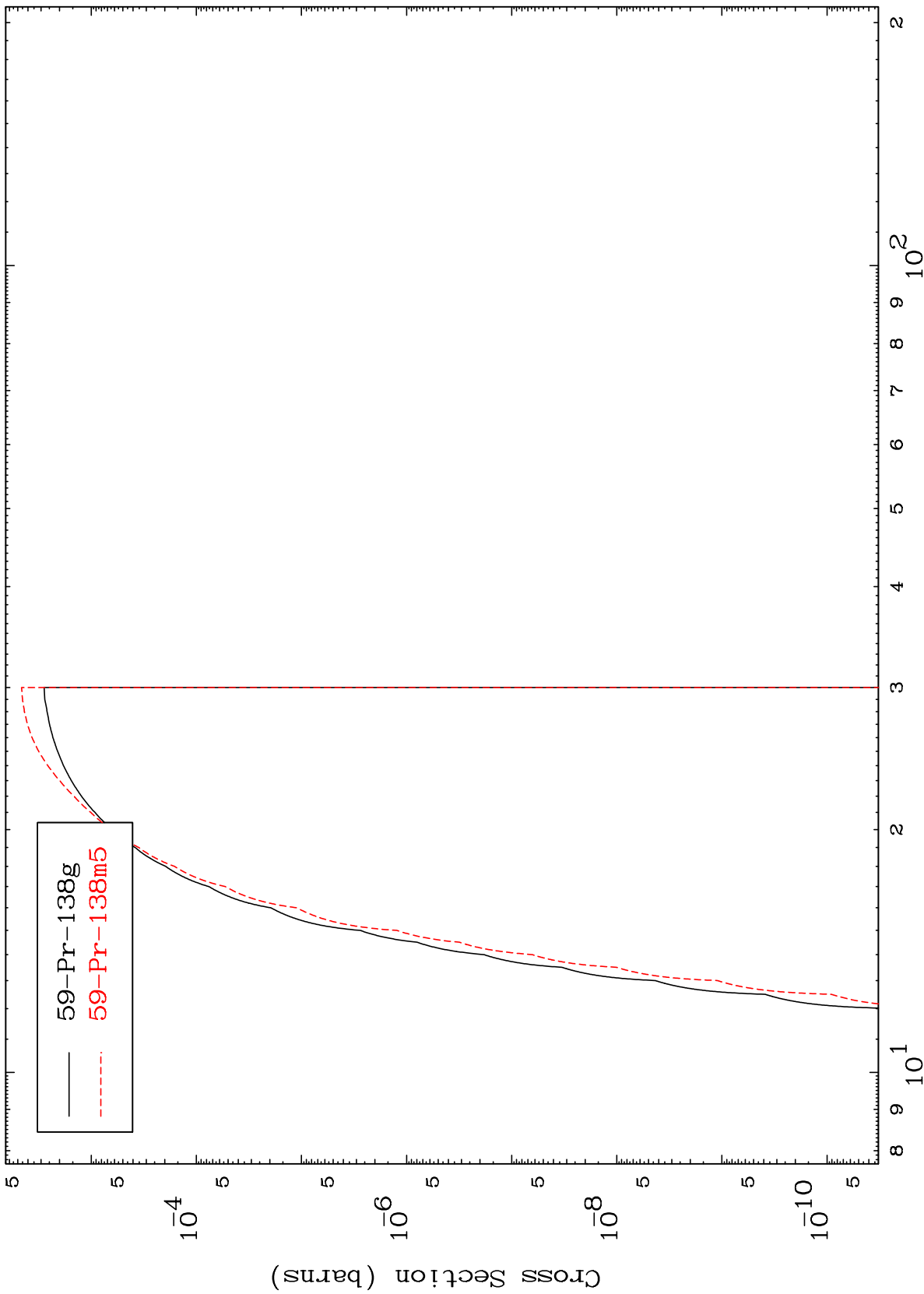
$^{60}\text{Nd-140}$



MAT 6019

60-Nd-140

(n, t)
Radionuclide Production Cross Section



141

Incident Energy (MeV)

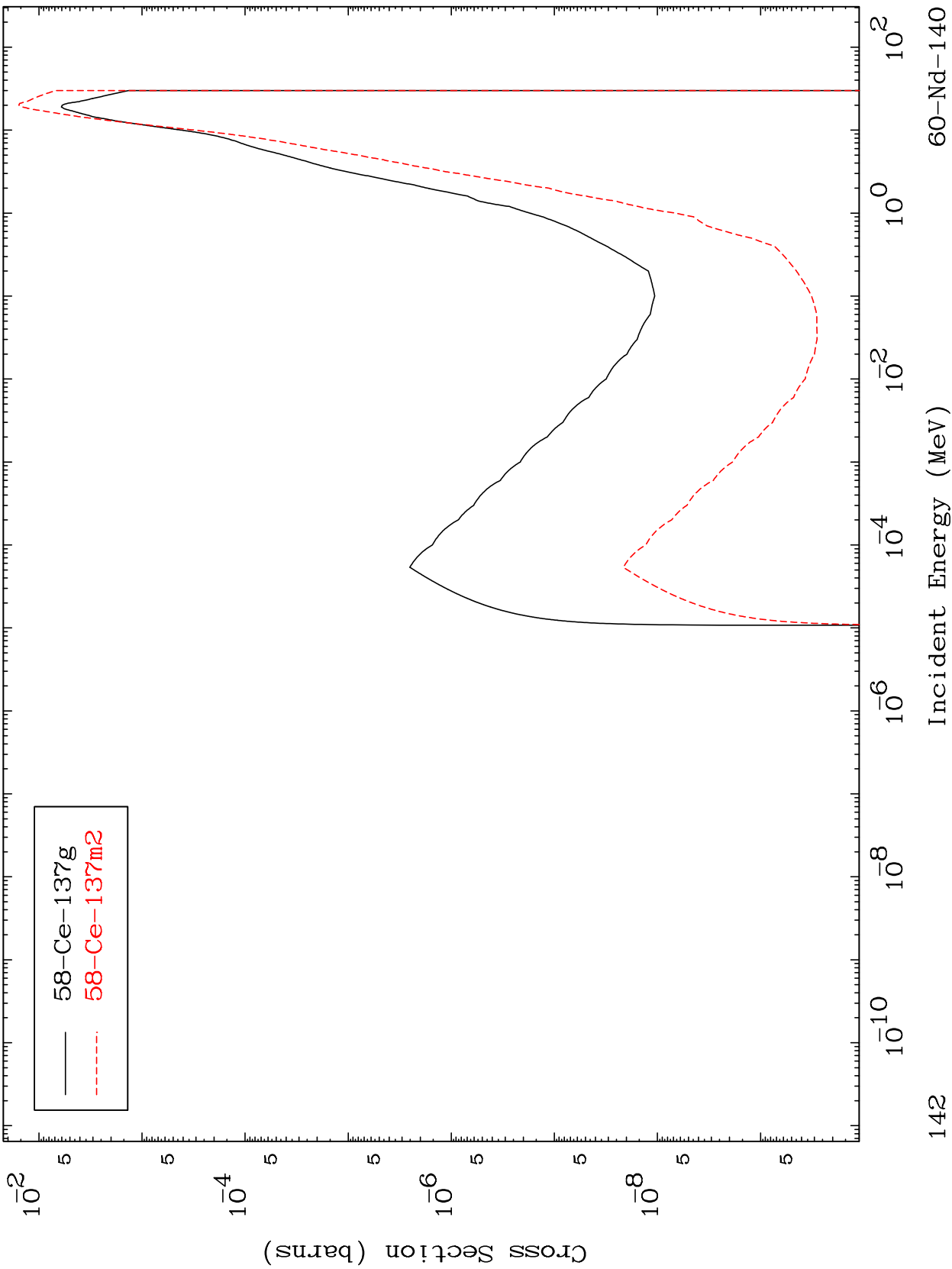
60-Nd-140

MAT 6019

(n, α)

60-Nd-140

Radionuclide Production Cross Section

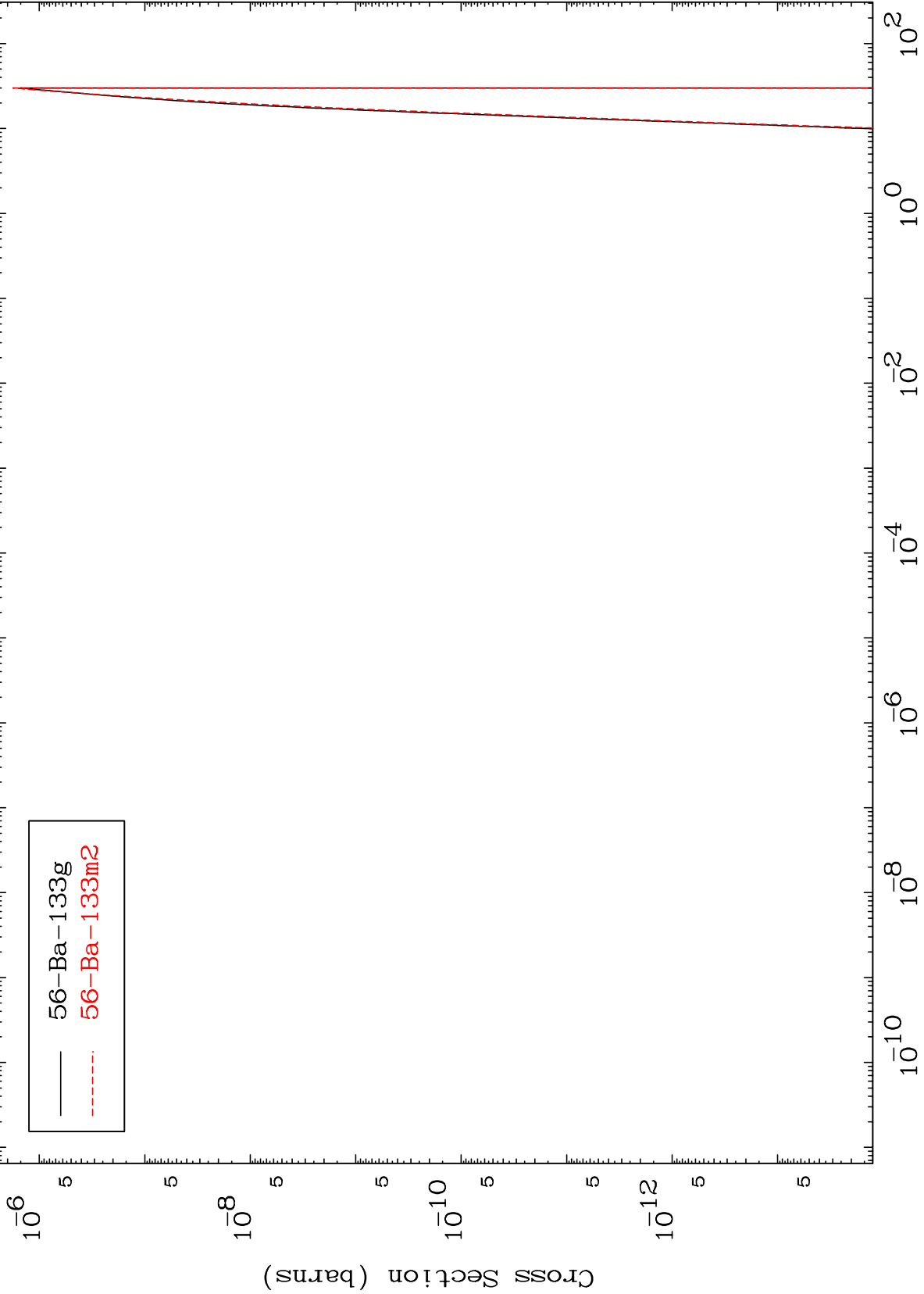


MAT 6019

(n,2α)

60-Nd-140

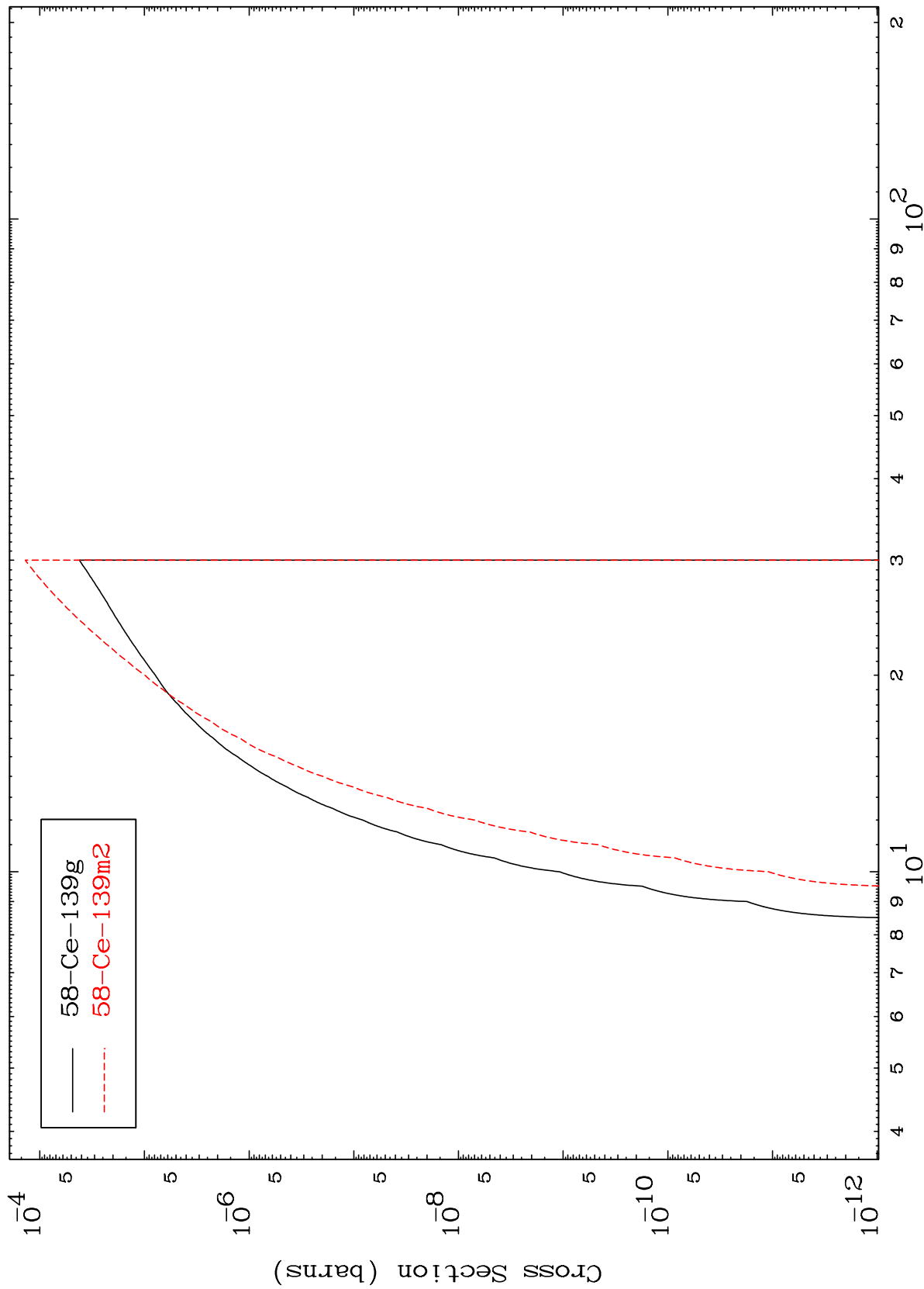
Radionuclide Production Cross Section



MAT 6019

60-Nd-140

Radionuclide Production Cross Section
(n,2p)



144

Incident Energy (MeV)

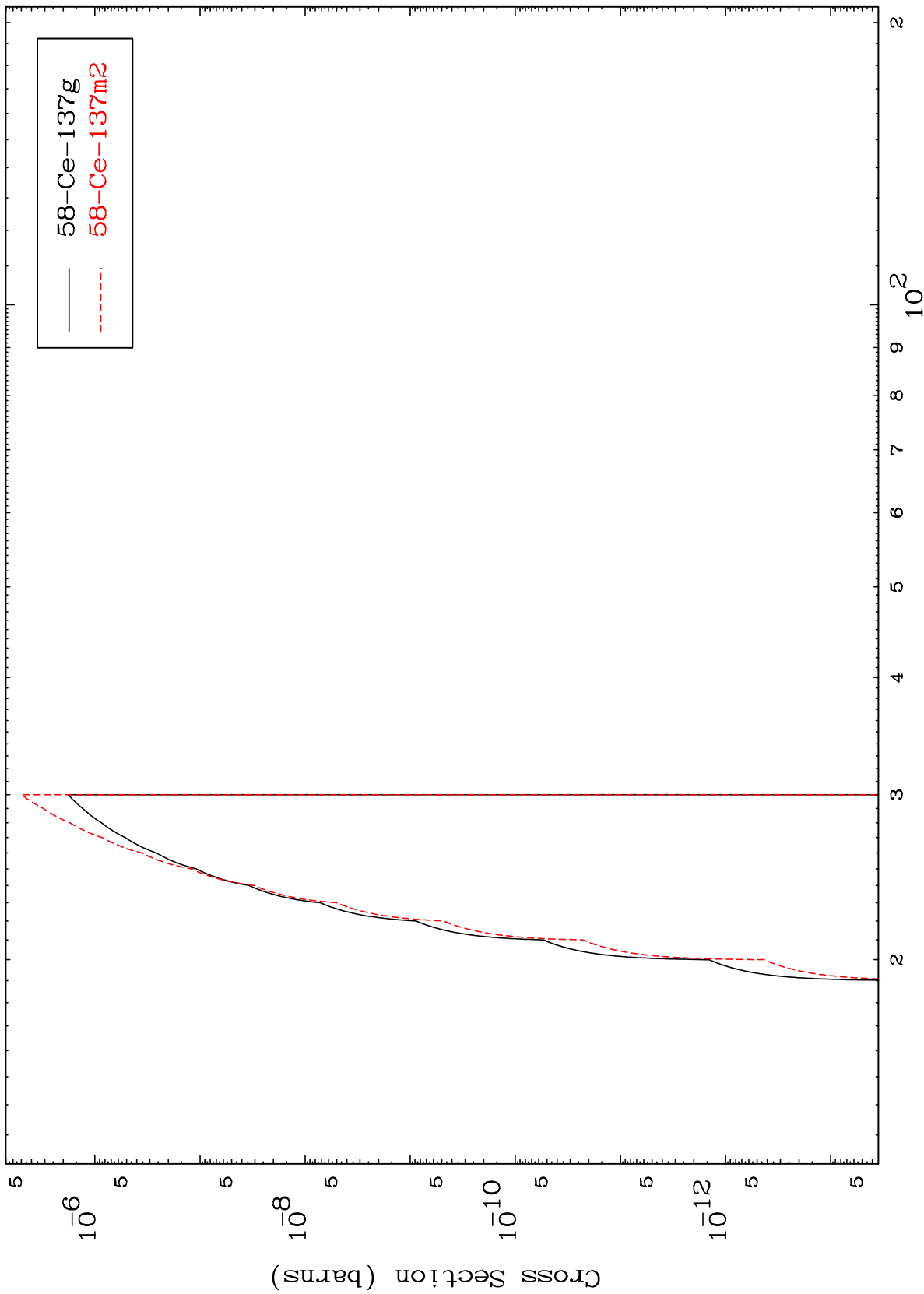
60-Nd-140

MAT 6019

(n,p) t

60-Nd-140

Radionuclide Production Cross Section



145

Incident Energy (MeV)

60-Nd-140