

Program EVALPLOT
(Version 2021-1)

by

Dermott E. Cullen
(Present Contact Information)

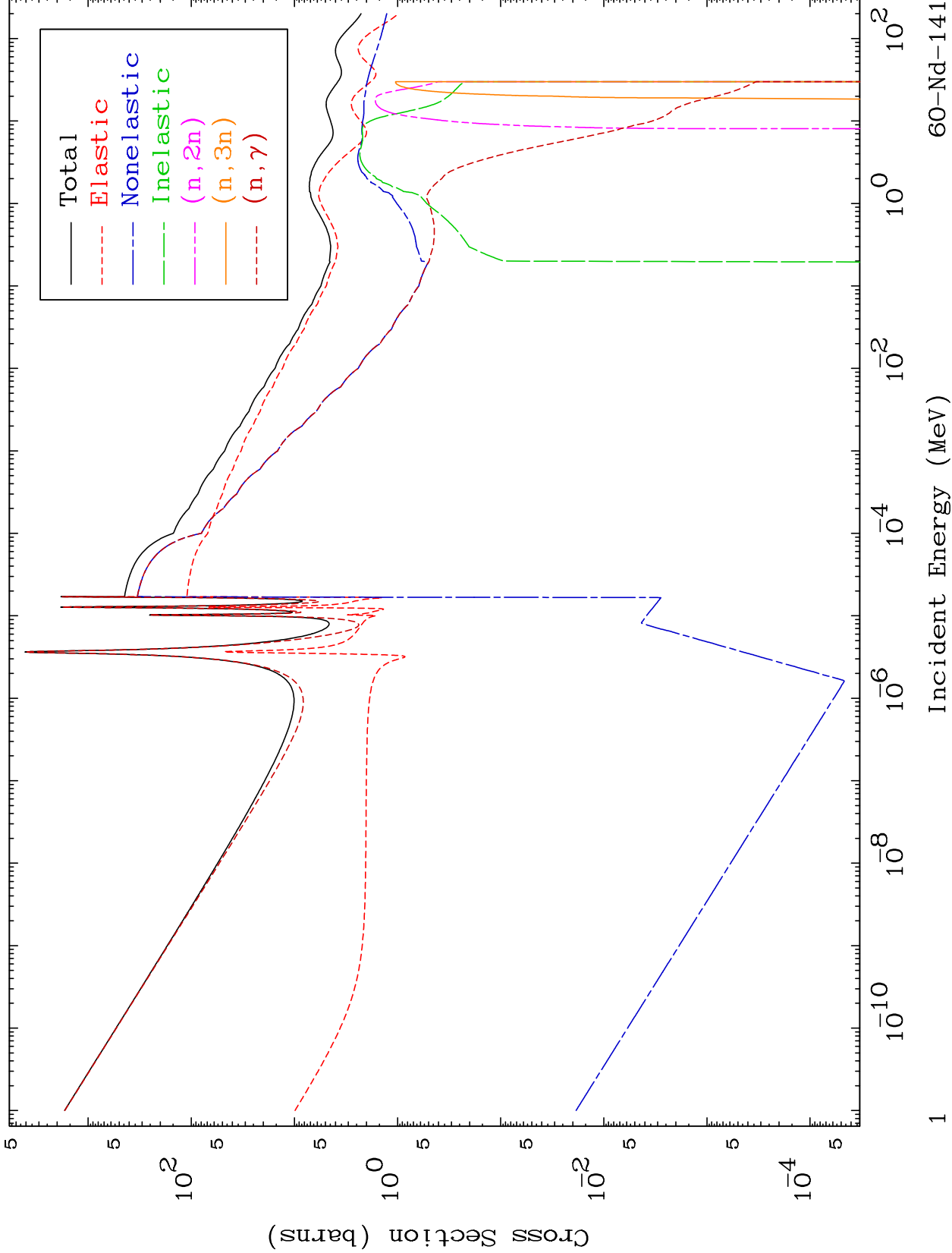
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1466 Hudson Way
Livermore, CA 94550
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Tele: 925-443-1911

E.Mail:redcullen1@comcast.net

Web:redcullen1.net/HOMEPAGE.NEW

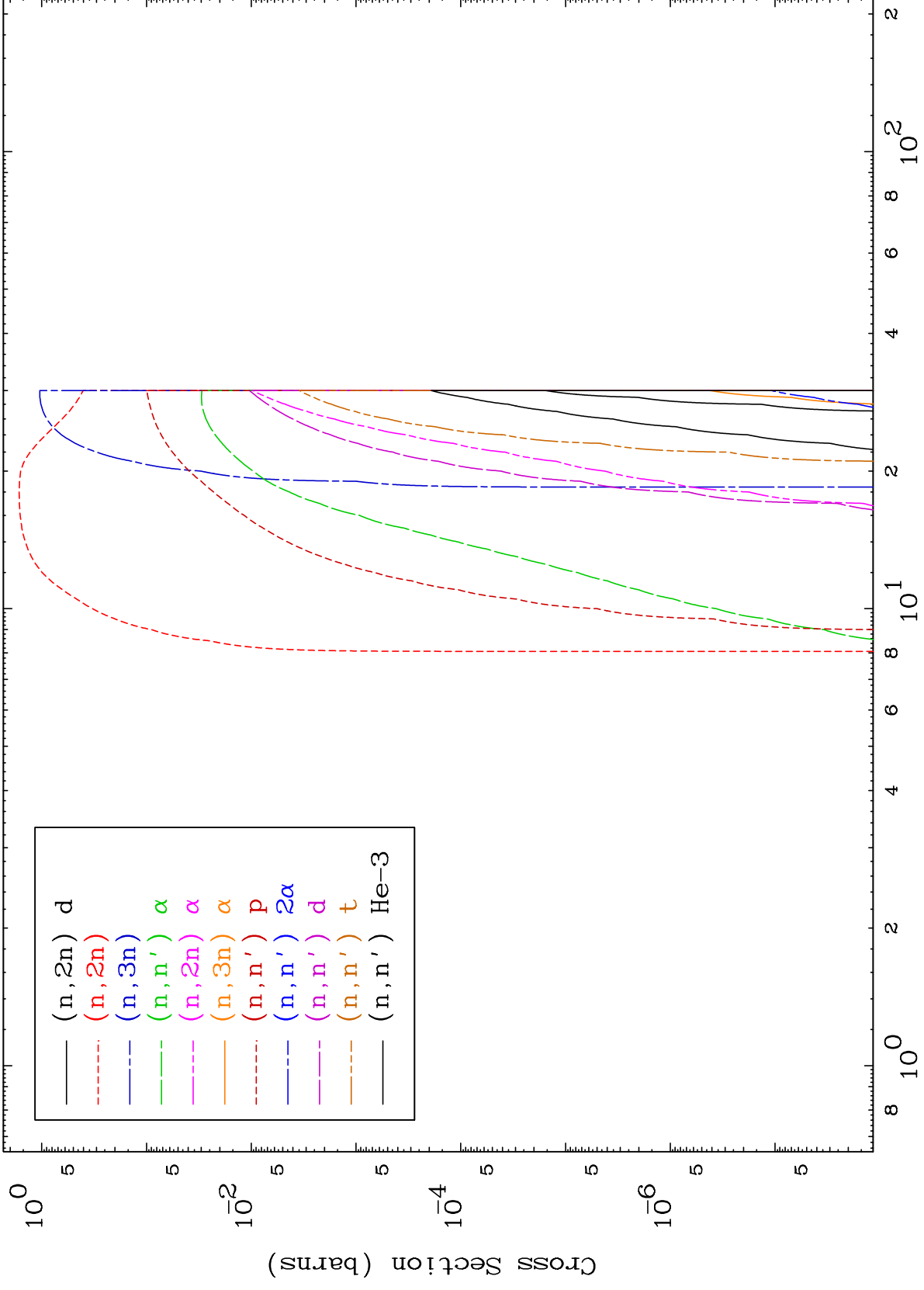
Press Mouse Button to Start



MAT 6022

Neutron Absorption
293 Kelvin Cross Sections

60-Nd-141

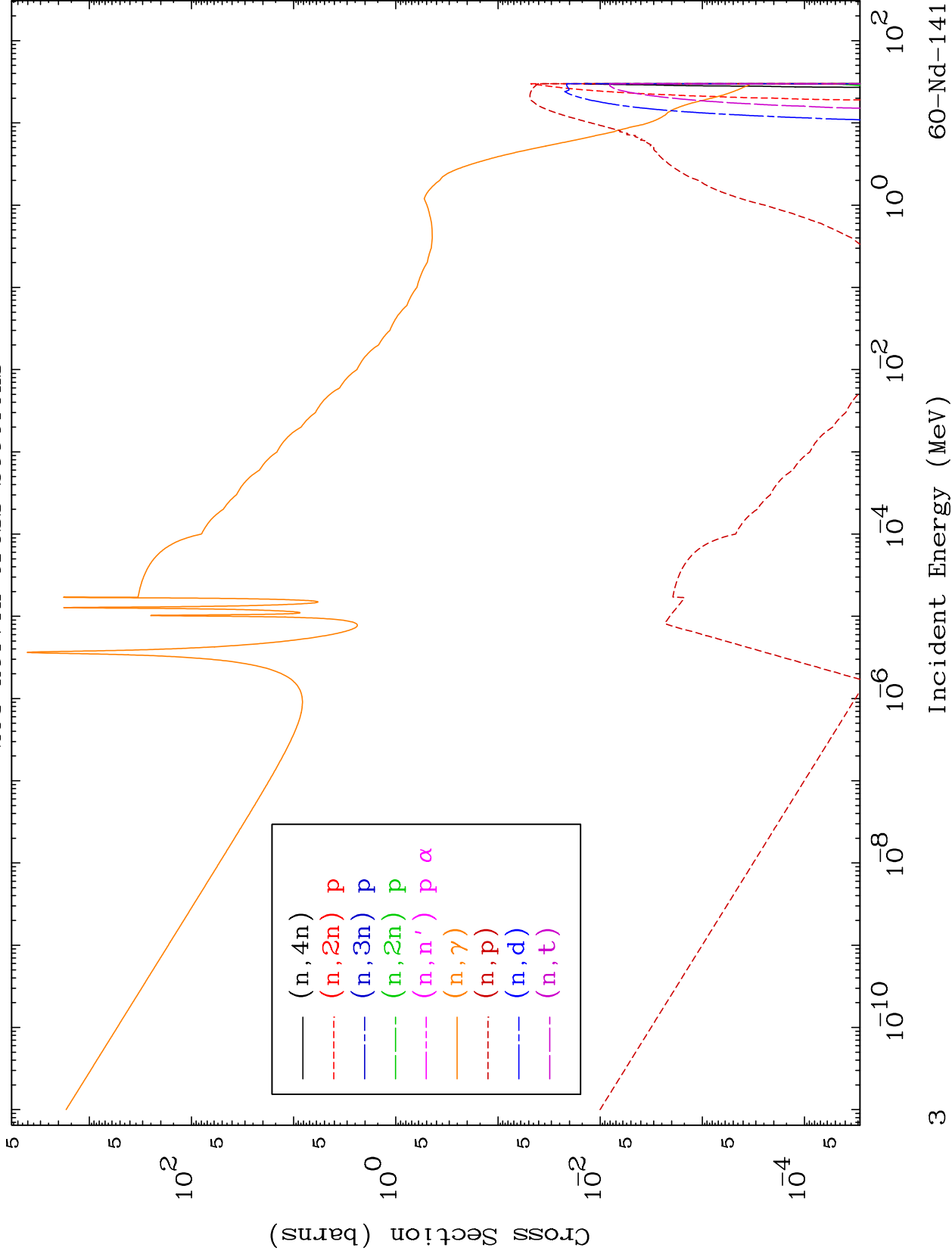


—	(n, 2n) d
- - -	(n, 2n)
- · - ·	(n, 3n)
- · - ·	(n, n') α
- · - ·	(n, 2n) α
- · - ·	(n, 3n) α
- · - ·	(n, n') p
- · - ·	(n, n') 2α
- · - ·	(n, n') d
- · - ·	(n, n') t
- · - ·	(n, n') He-3

60-Nd-141

Incident Energy (MeV)

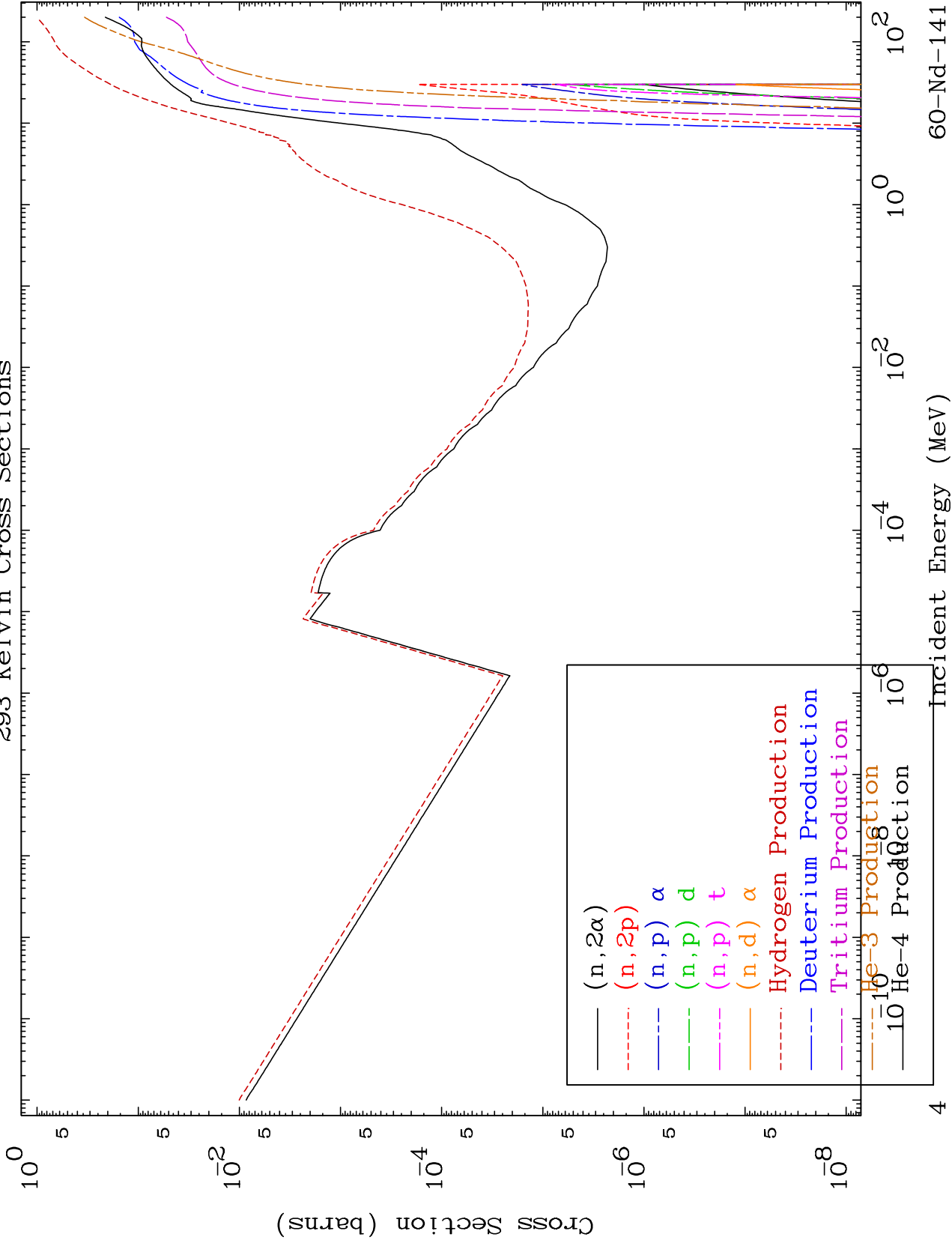
2



MAT 6022

Neutron Absorption
293 Kelvin Cross Sections

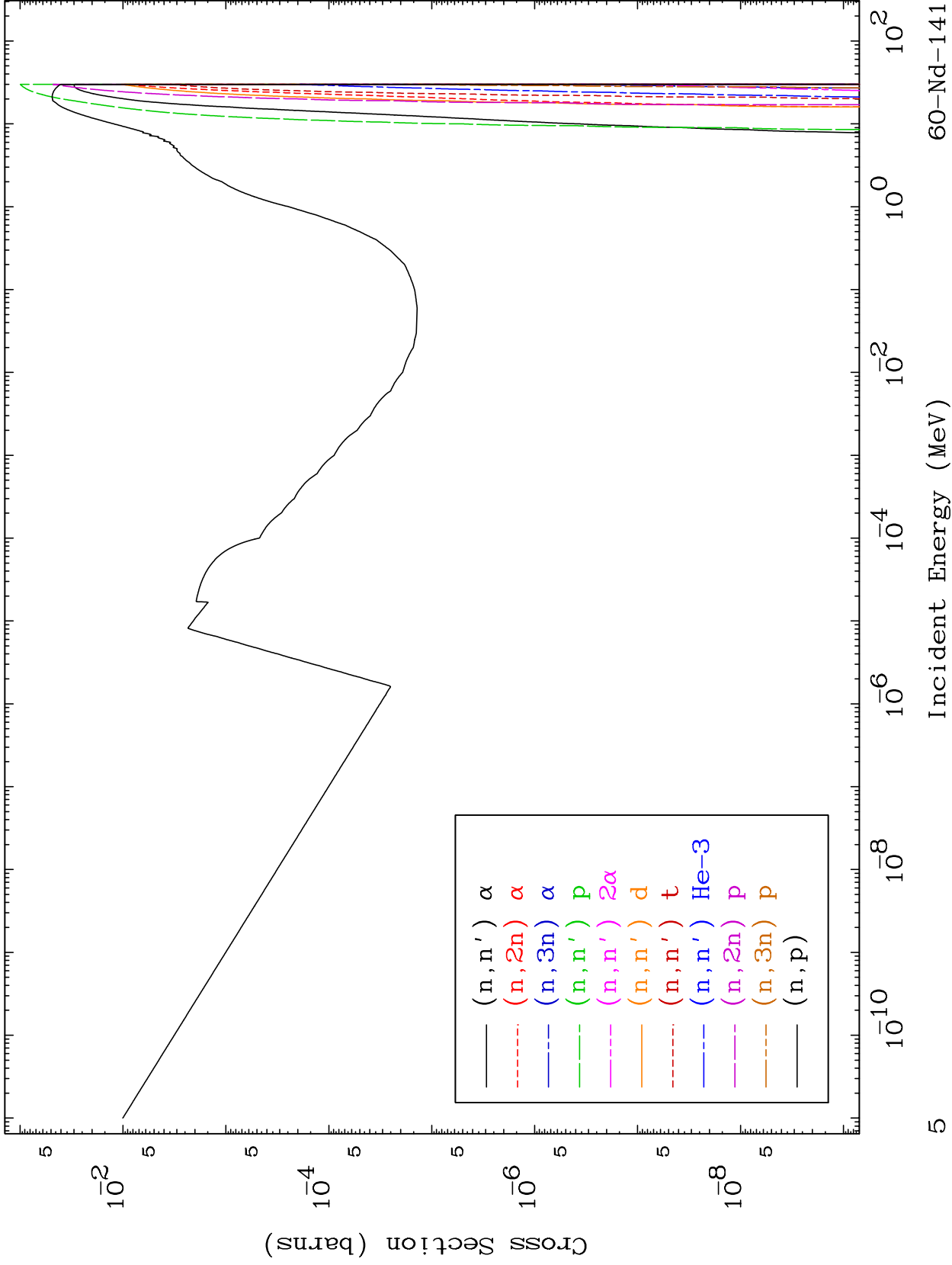
60-Nd-141



MAT 6022

Charged Particle
293 Kelvin Cross Sections

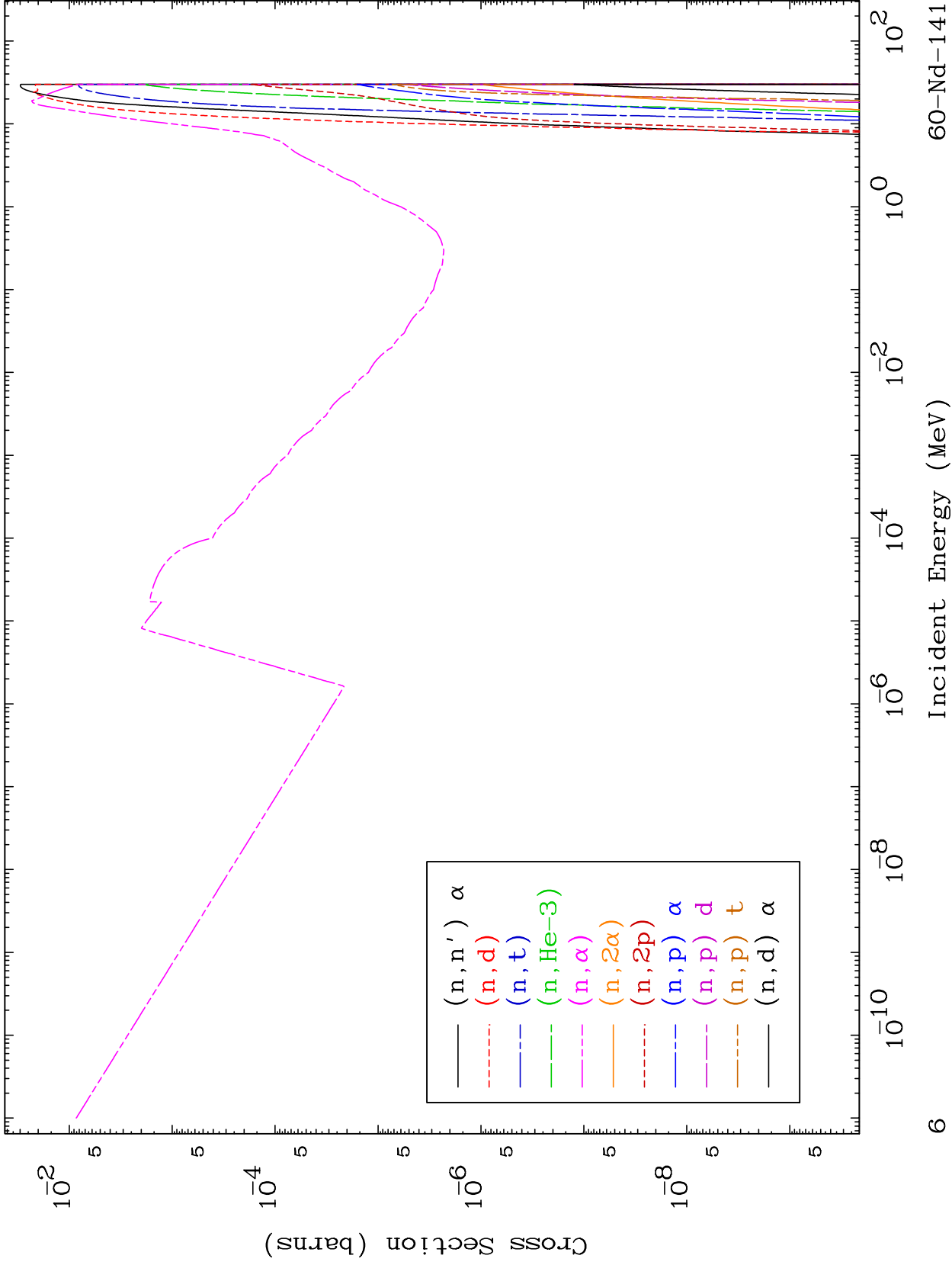
60-Nd-141



MAT 6022

Charged Particle
293 Kelvin Cross Sections

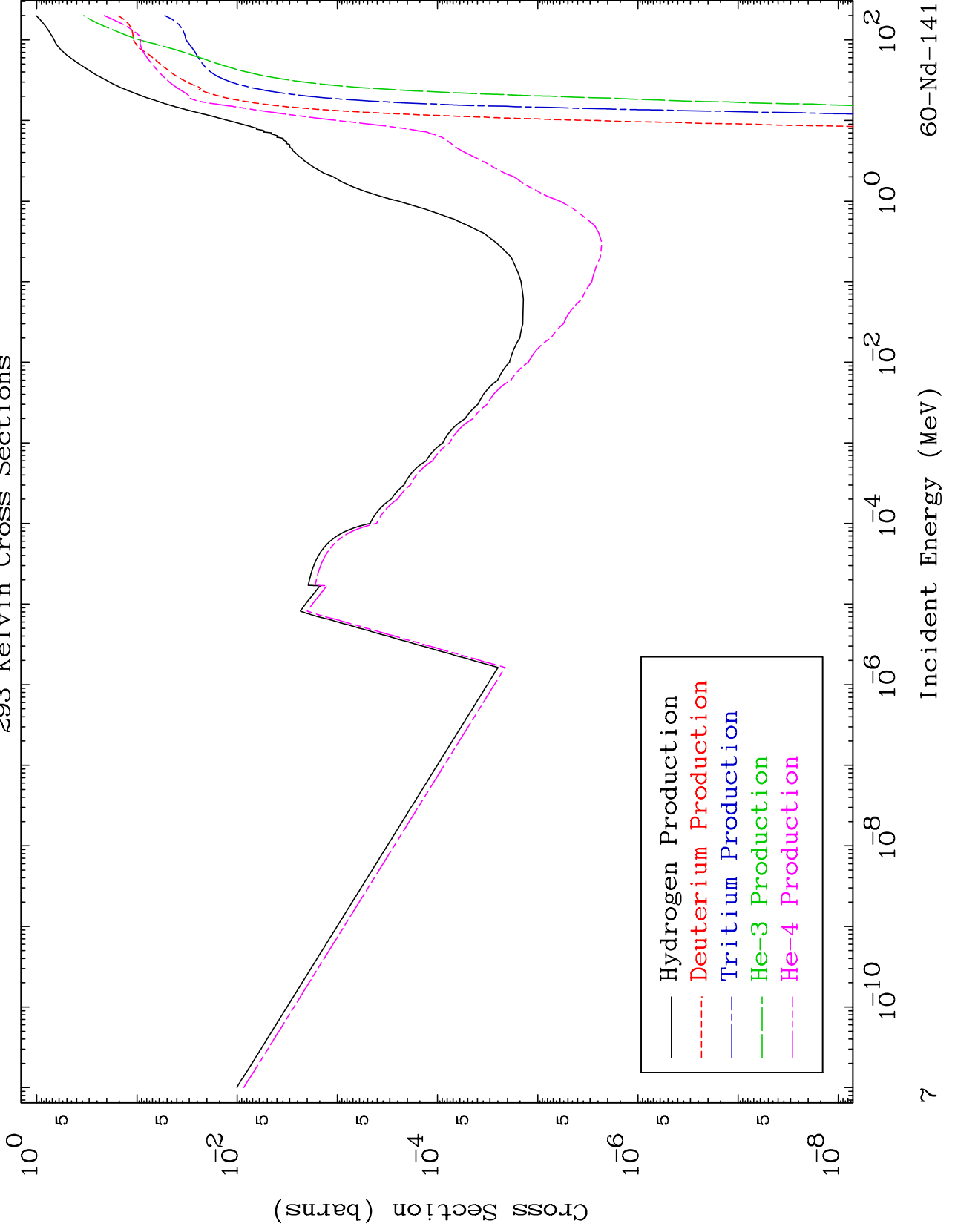
60-Nd-141



MAT 6022

Particle Production
293 Kelvin Cross Sections

60-Nd-141

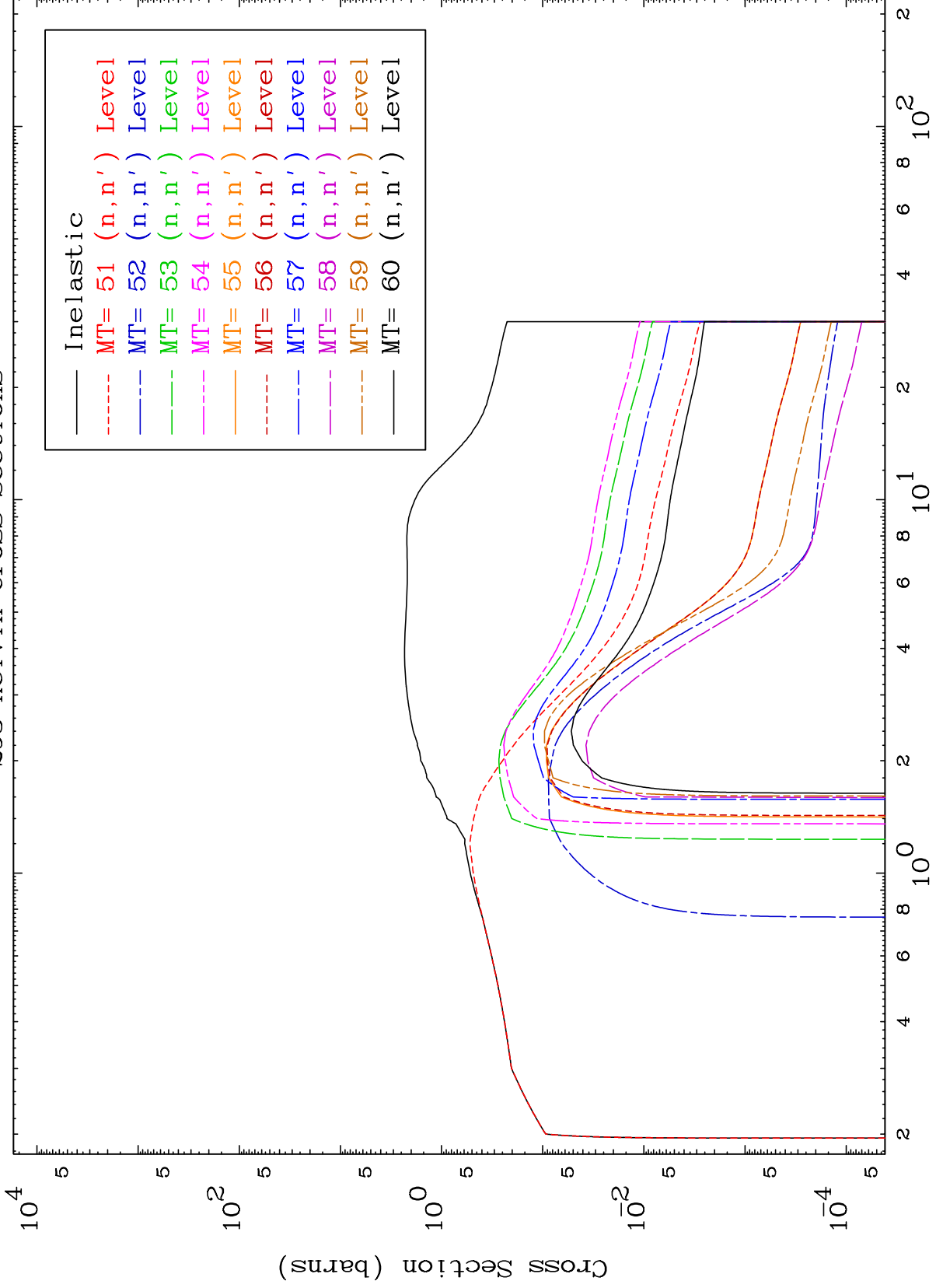


MAT 6022

(n,n') Levels

60-Nd-141

293 Kelvin Cross Sections



8

Incident Energy (MeV)

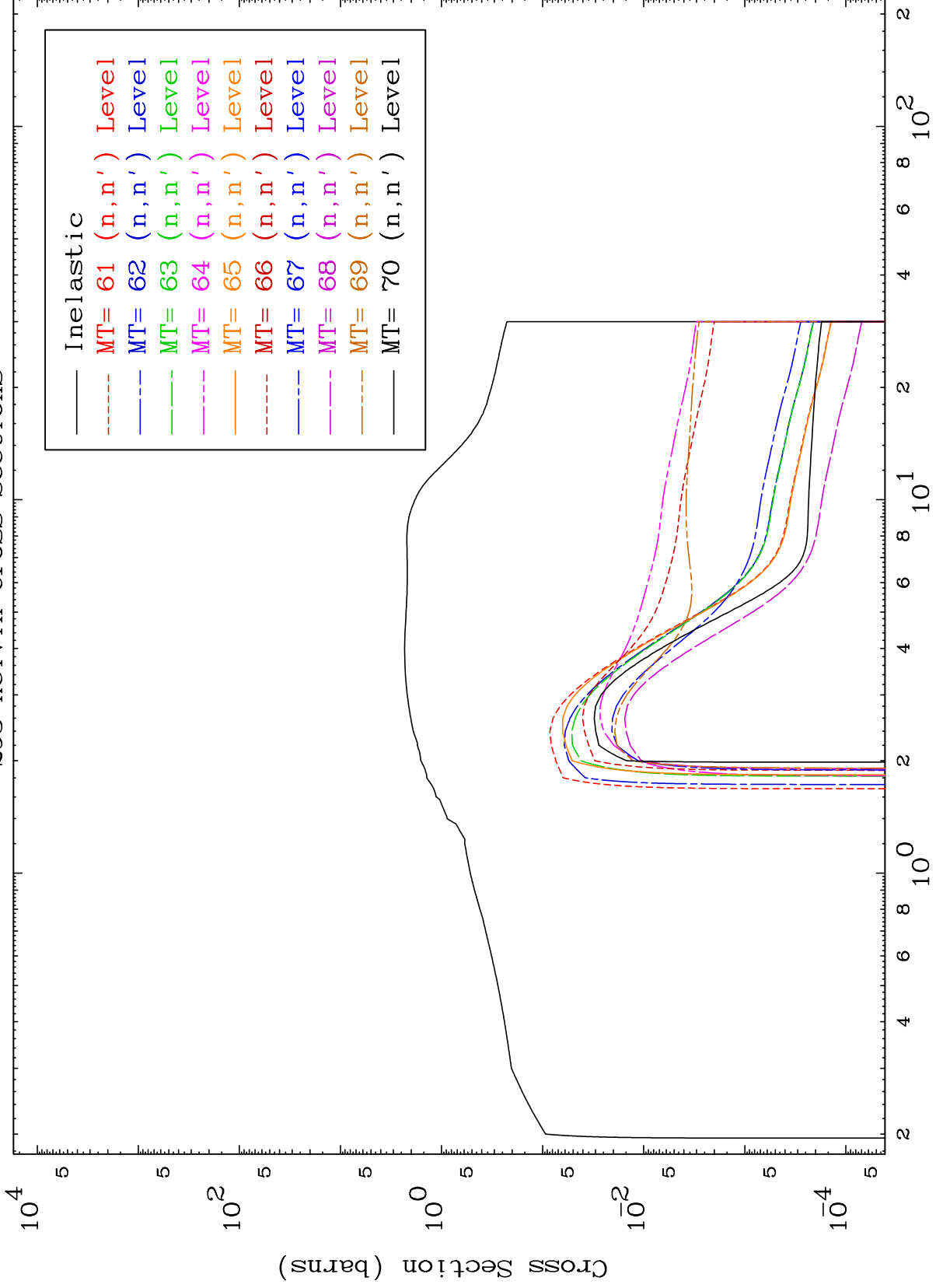
60-Nd-141

MAT 6022

(n,n') Levels

60-Nd-141

293 Kelvin Cross Sections



9

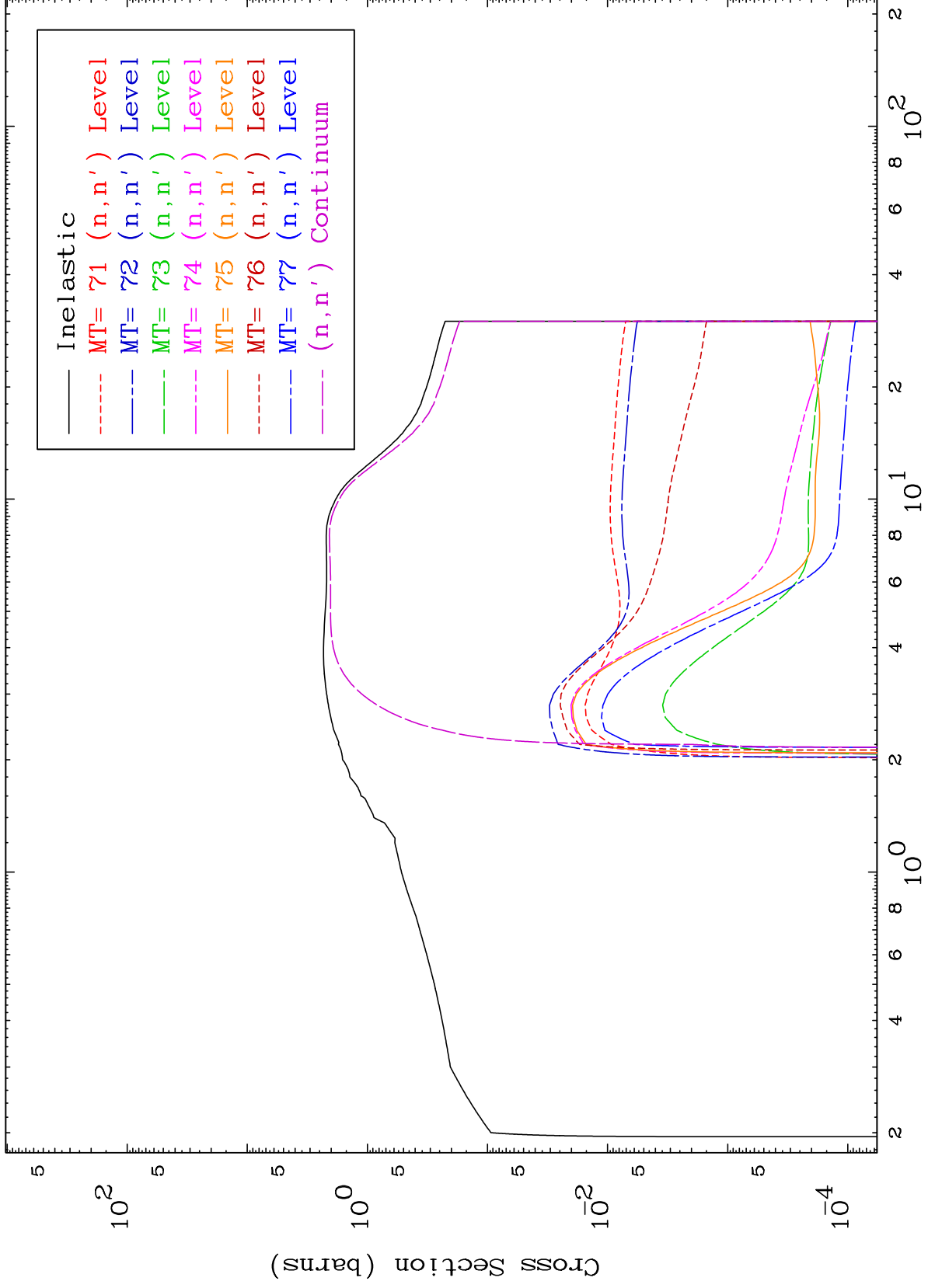
Incident Energy (MeV)

60-Nd-141

MAT 6022

(n,n') Levels
293 Kelvin Cross Sections

60-Nd-141



10

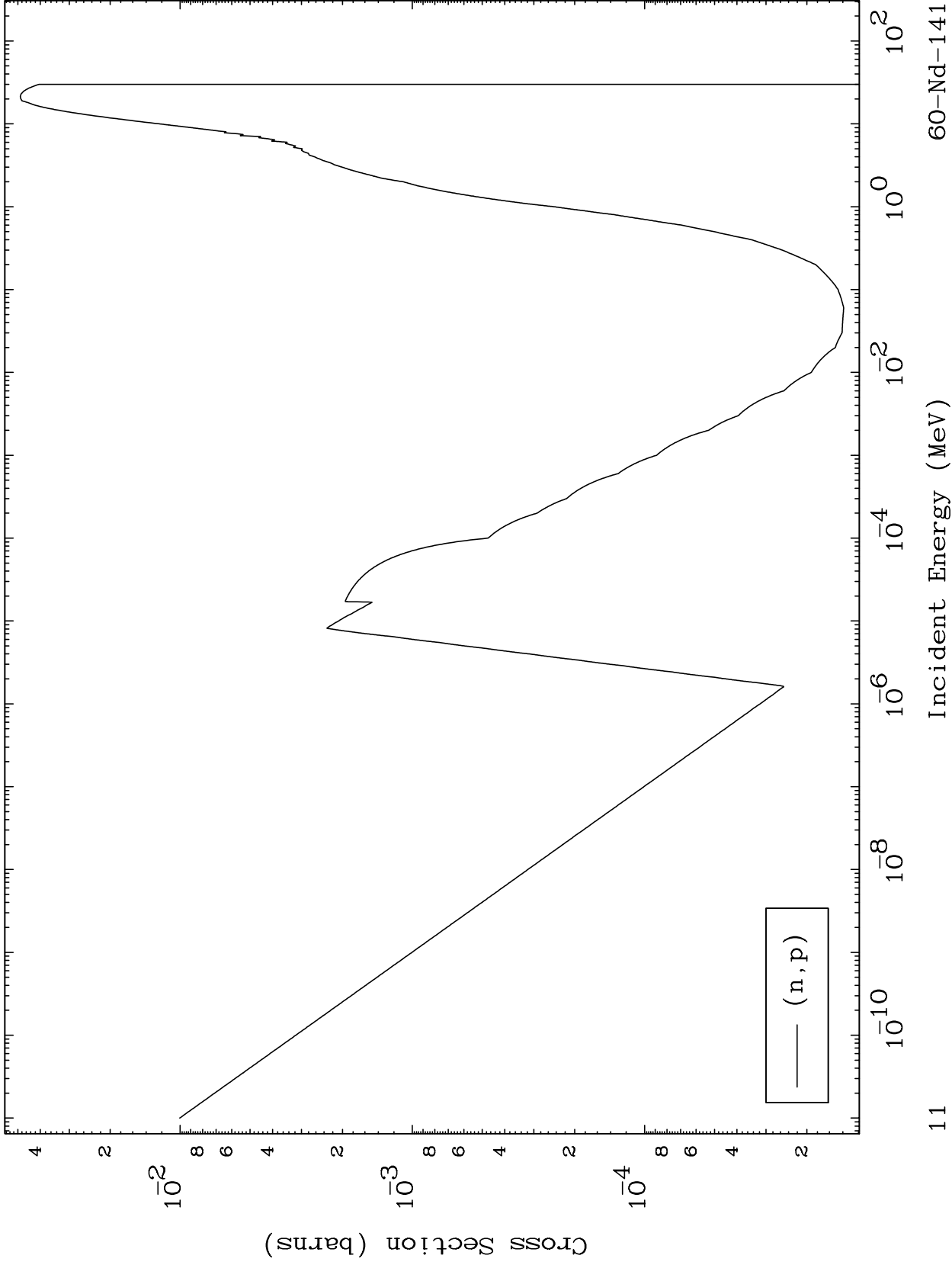
Incident Energy (MeV)

60-Nd-141

MAT 60222

(n,p) Levels
293 Kelvin Cross Sections

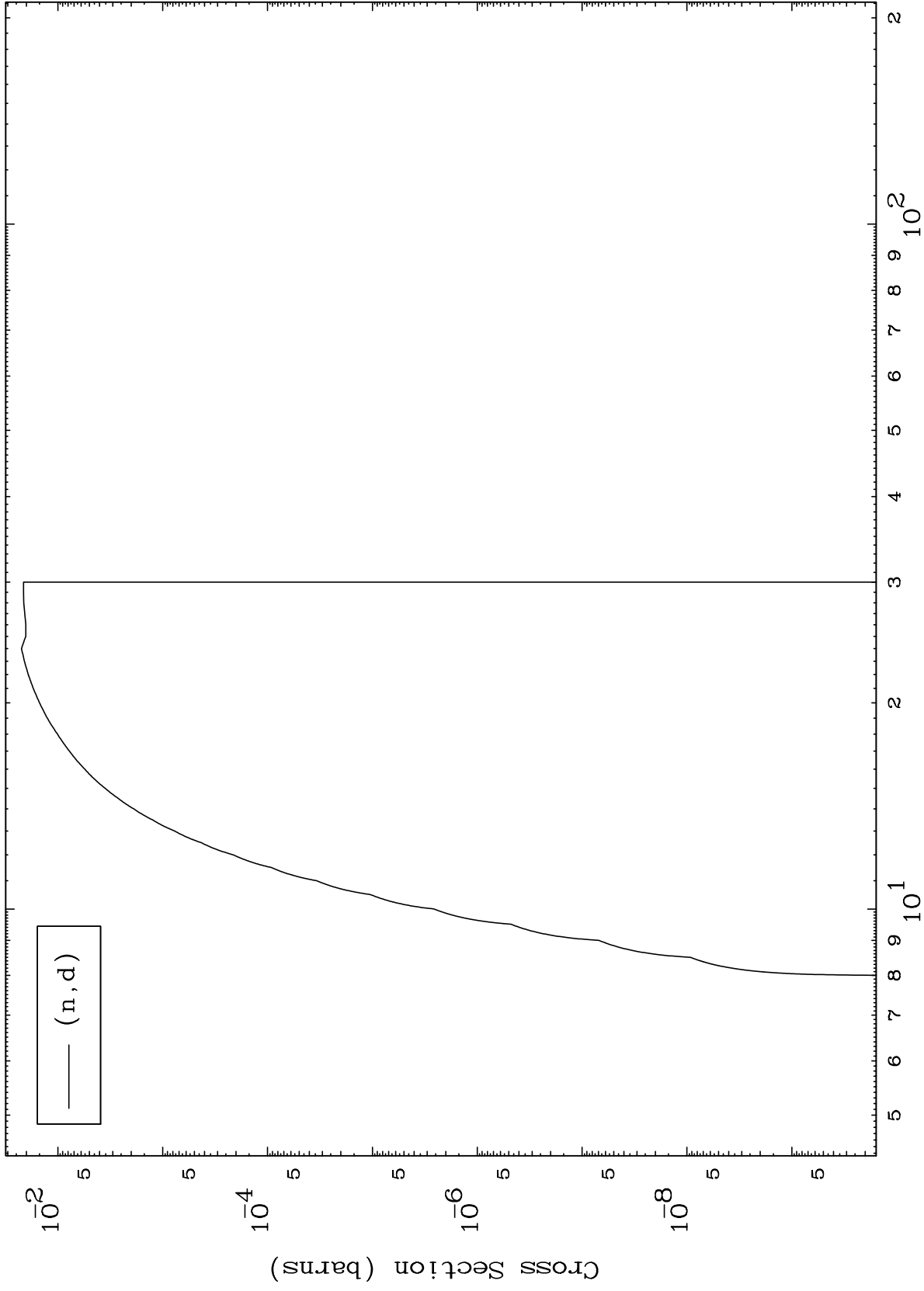
60-Nd-141



MAT 6022

(n,d) Levels
293 Kelvin Cross Sections

60-Nd-141



12

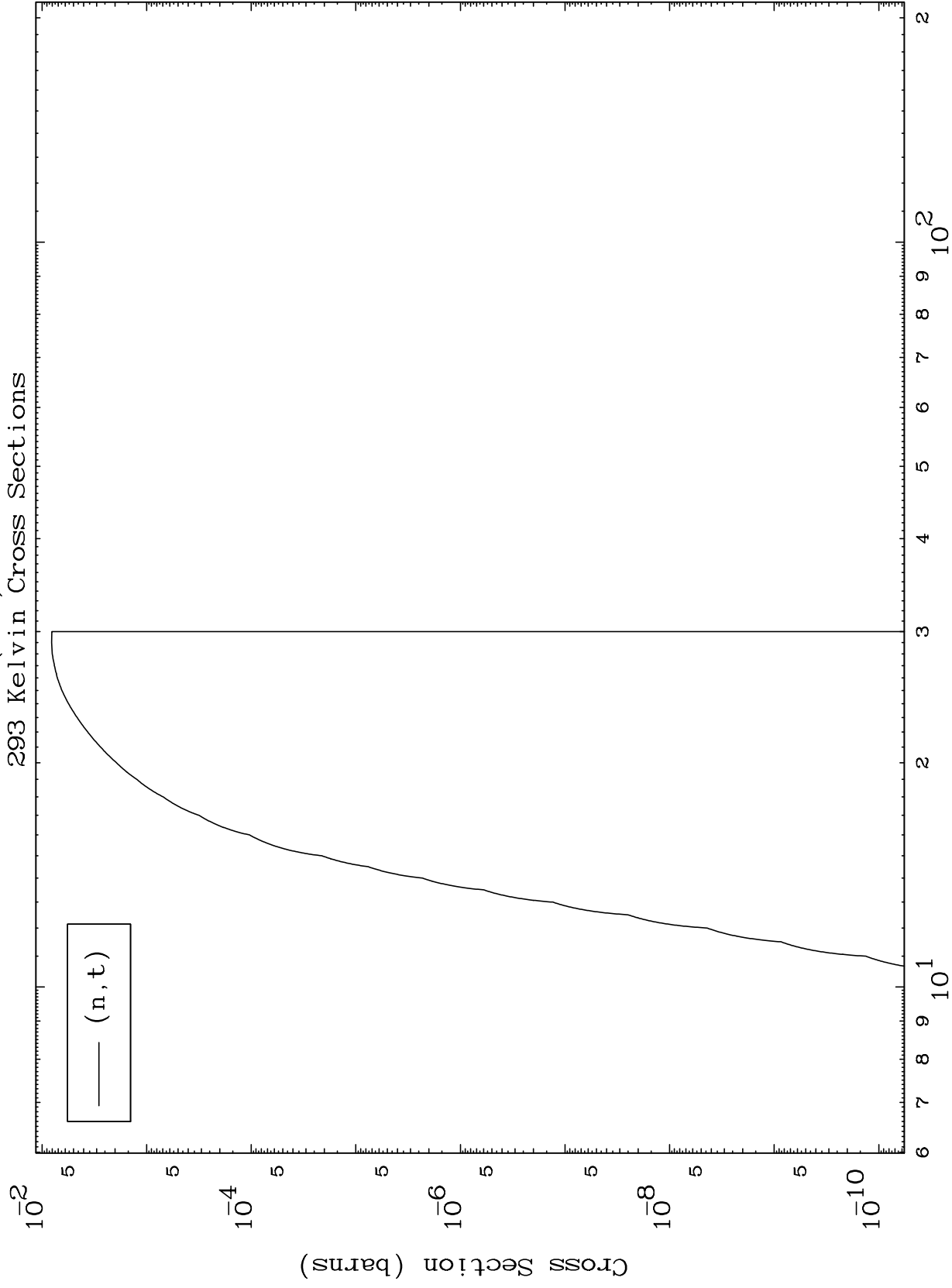
Incident Energy (MeV)

60-Nd-141

MAT 6022

(n,t) Levels
293 Kelvin Cross Sections

60-Nd-141



13

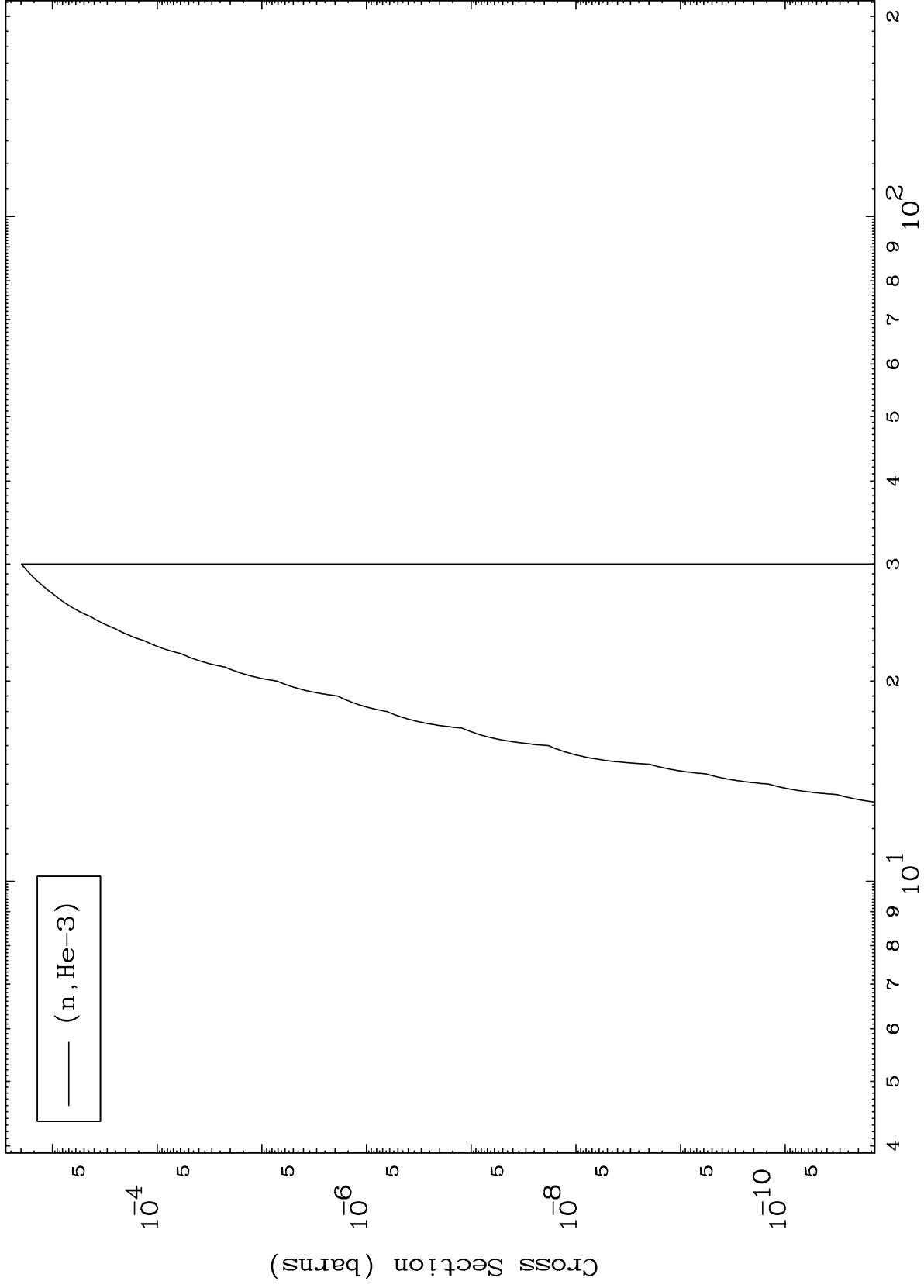
Incident Energy (MeV)

60-Nd-141

MAT 6022

(n,He3) Levels
293 Kelvin Cross Sections

60-Nd-141



14

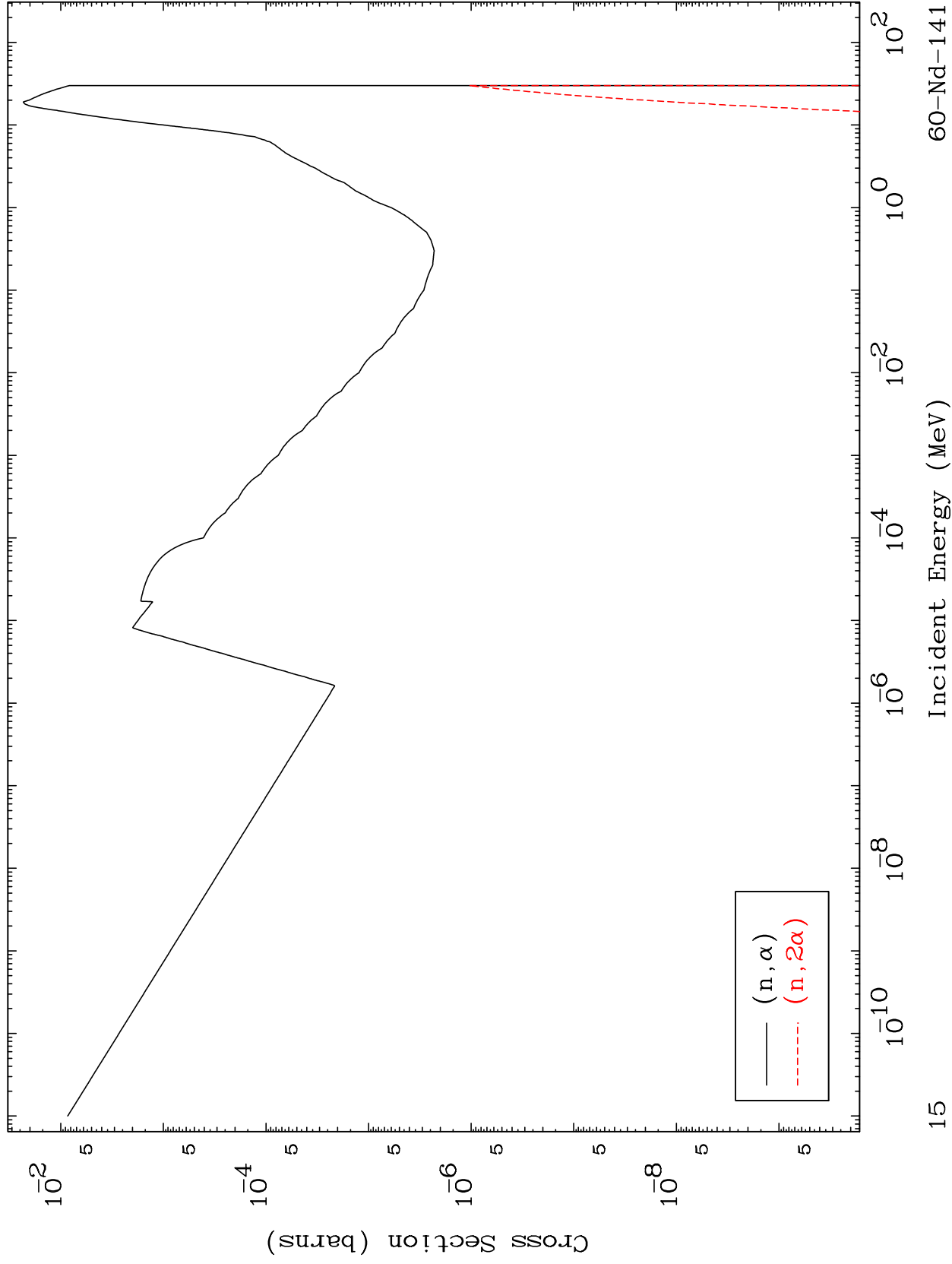
Incident Energy (MeV)

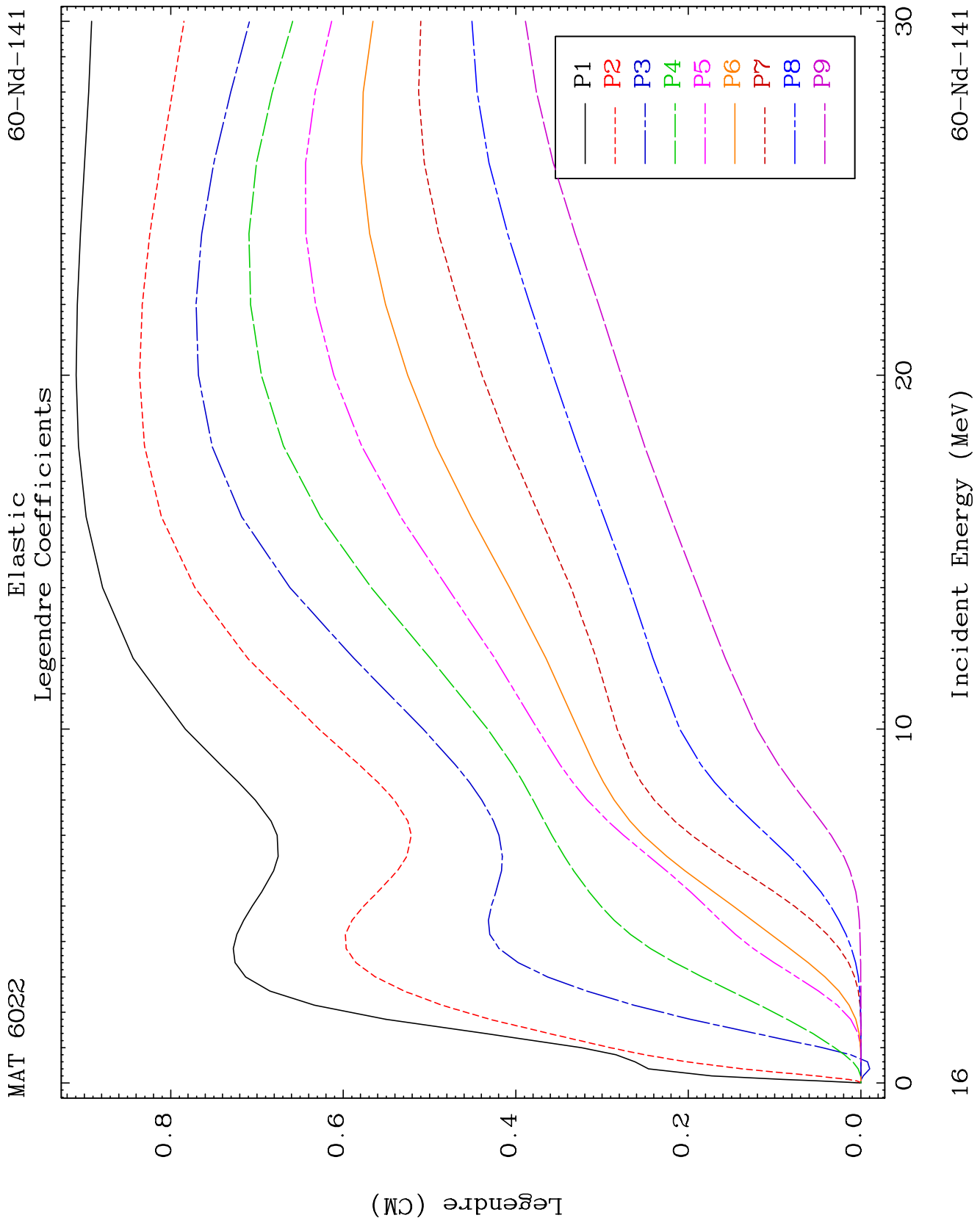
60-Nd-141

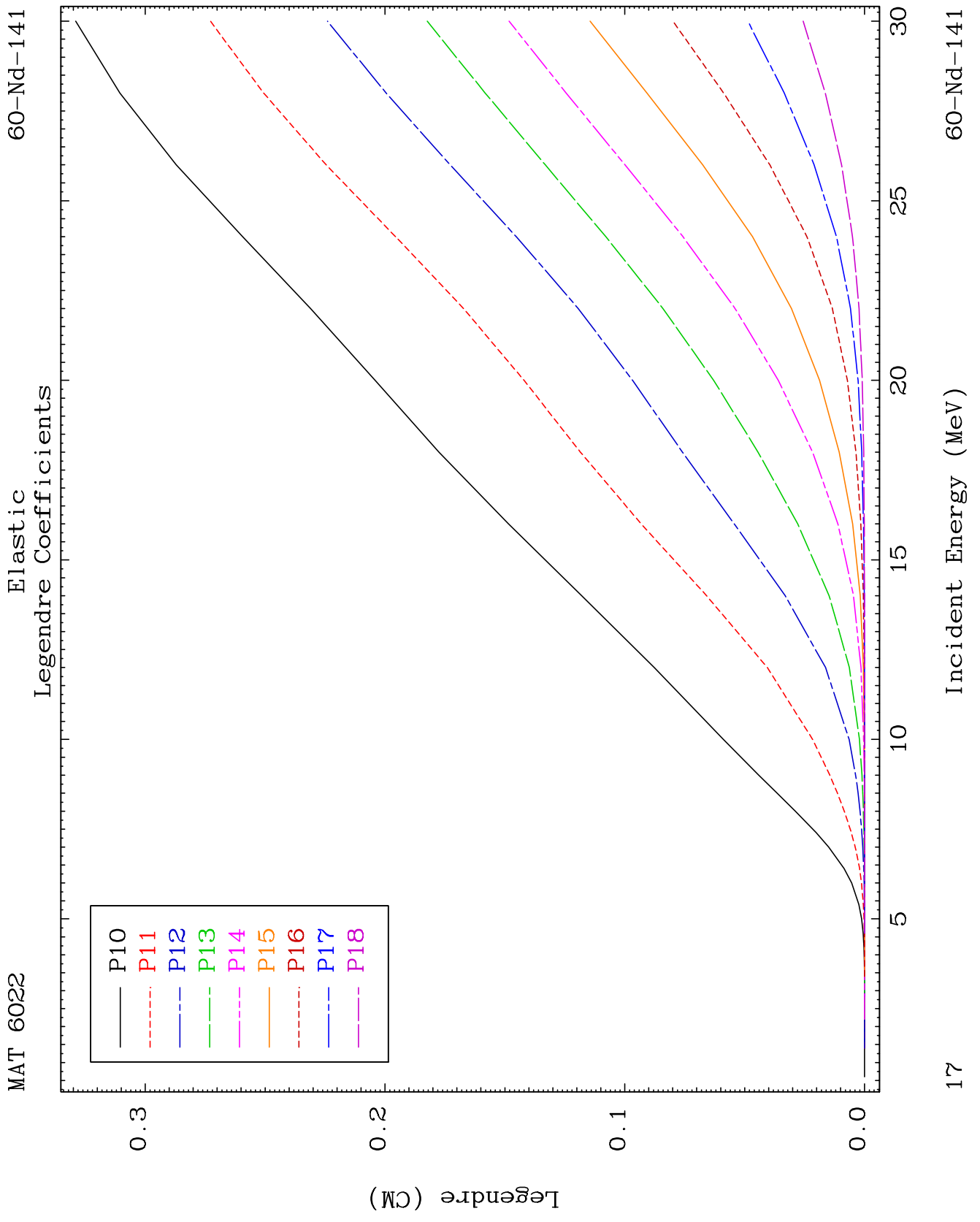
MAT 6022

(n, α) Levels
293 Kelvin Cross Sections

60-Nd-141



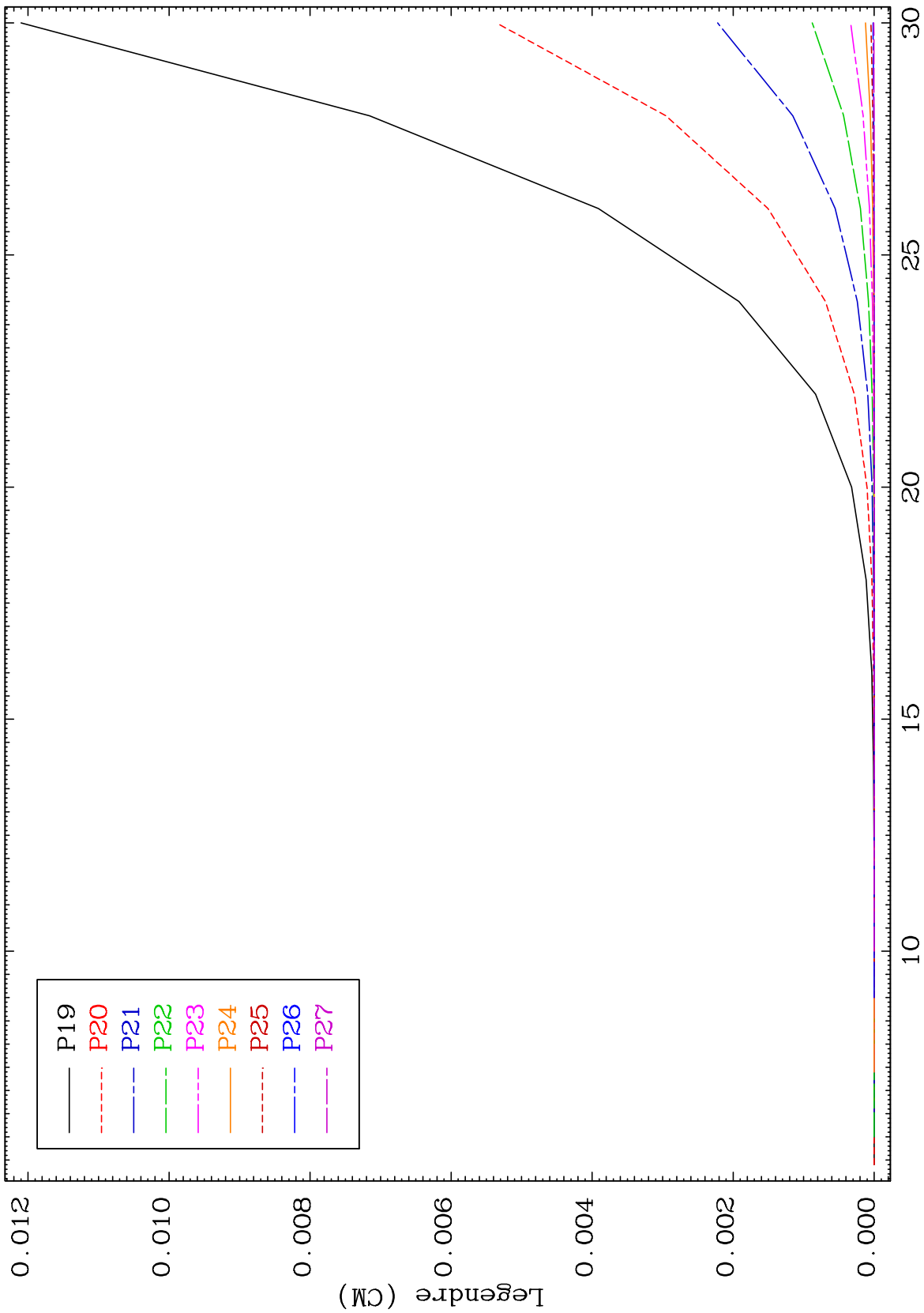




MAT 6022

Elastic
Legendre Coefficients

⁶⁰Nd-141



18

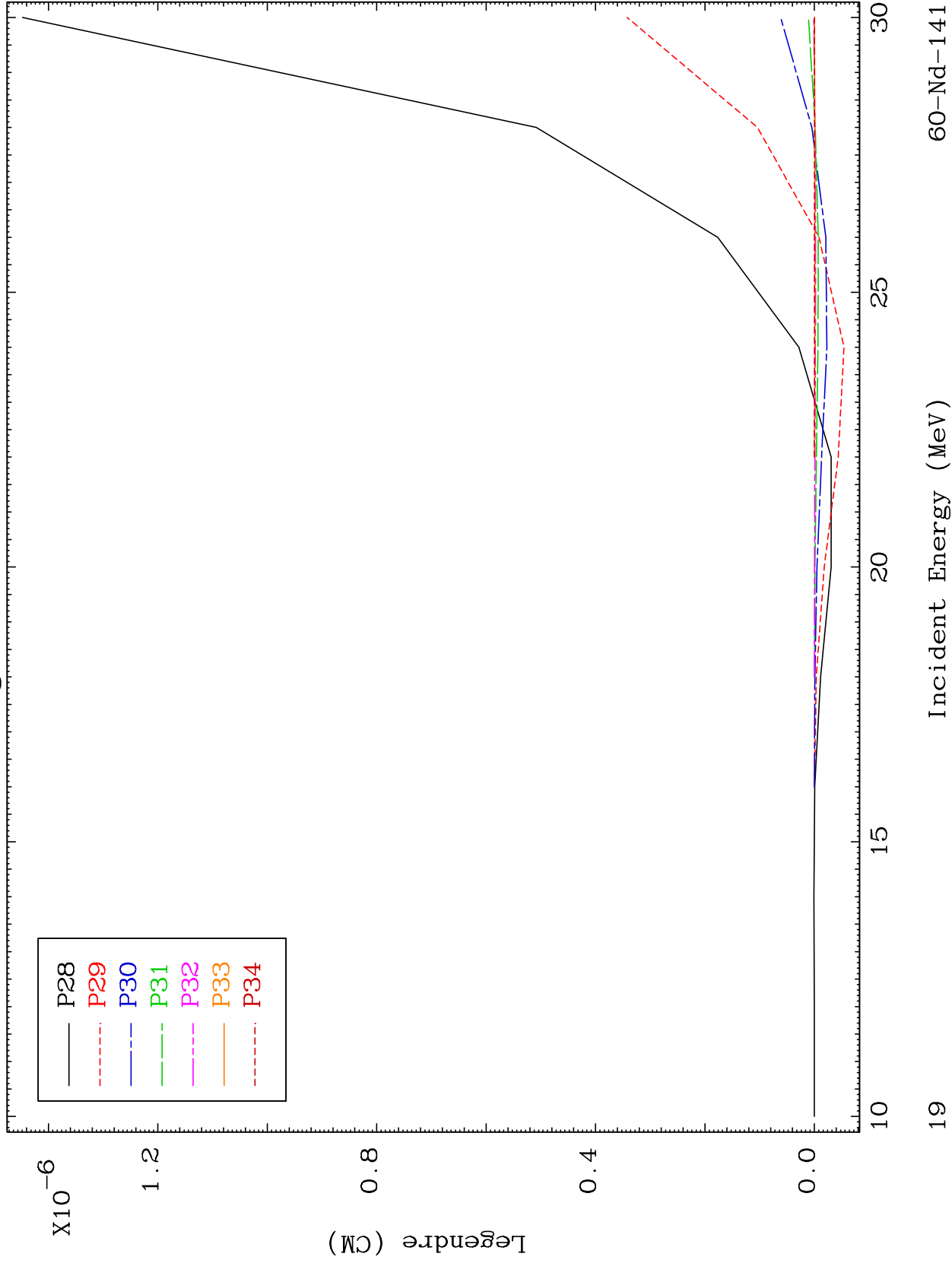
Incident Energy (MeV)

⁶⁰Nd-141

MAT 6022

Elastic Legendre Coefficients

60-Nd-141



19

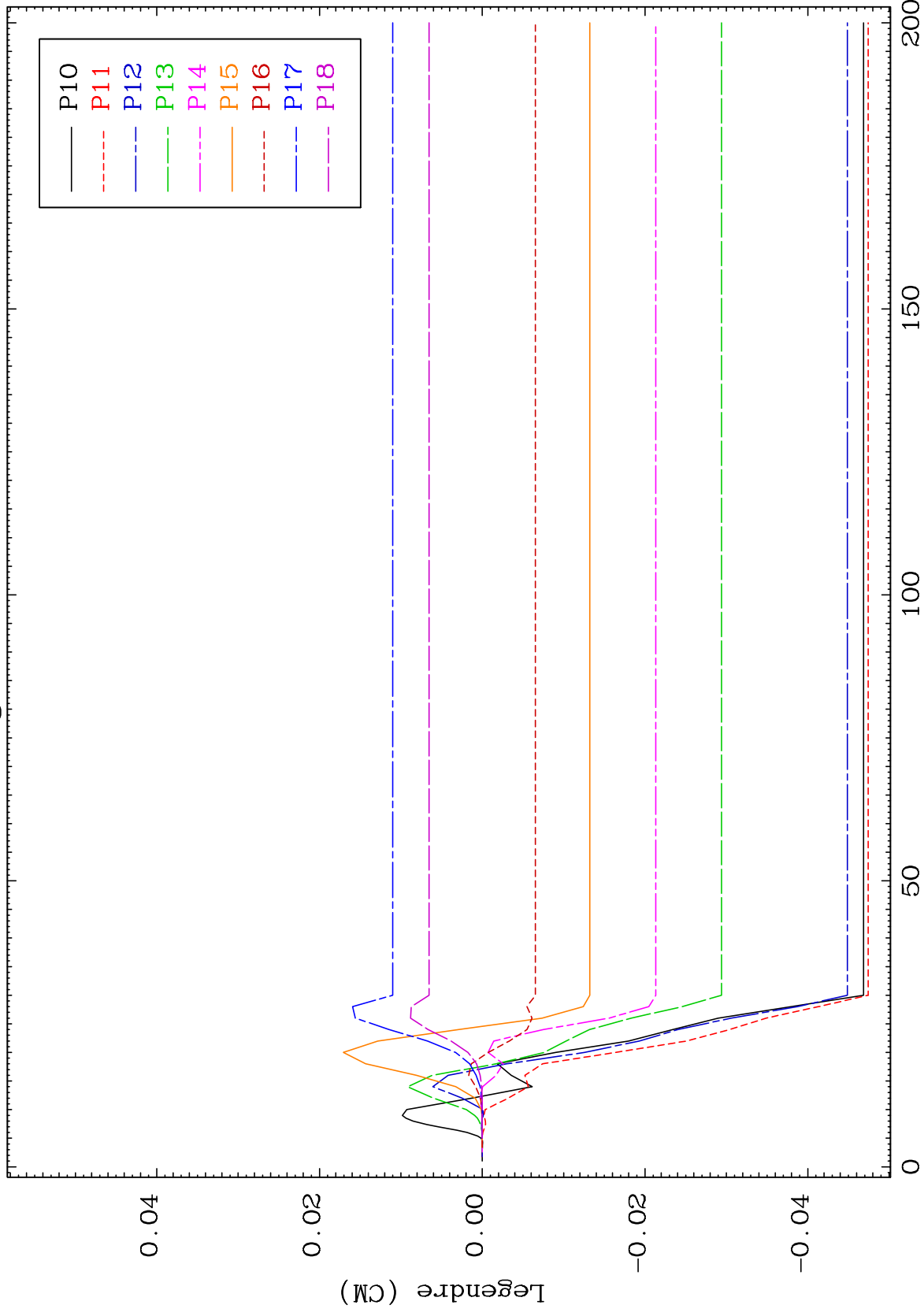
Incident Energy (MeV)

60-Nd-141

MAT 6022

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

60-Nd-141



21

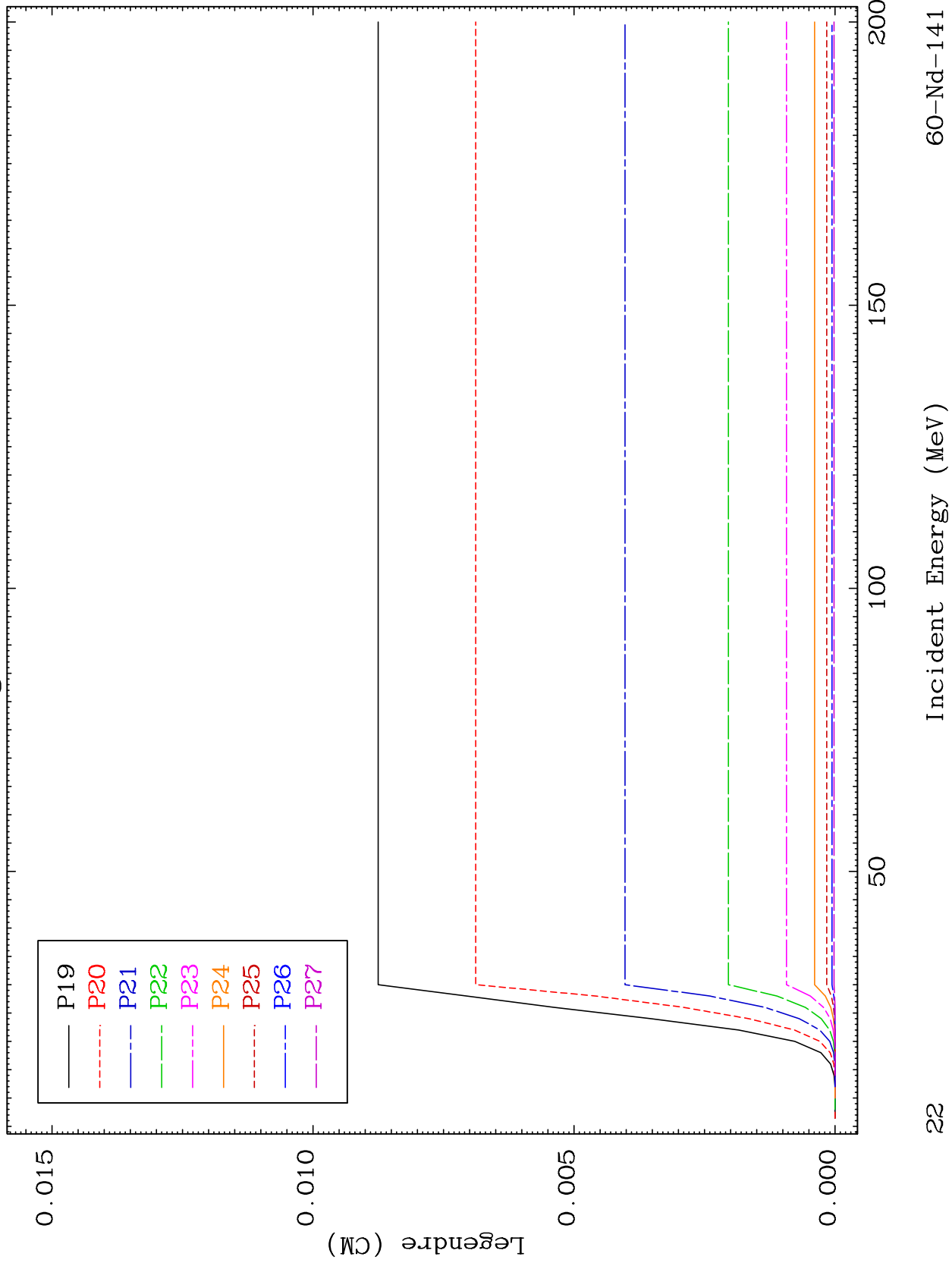
Incident Energy (MeV)

60-Nd-141

MAT 6022

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

60-Nd-141



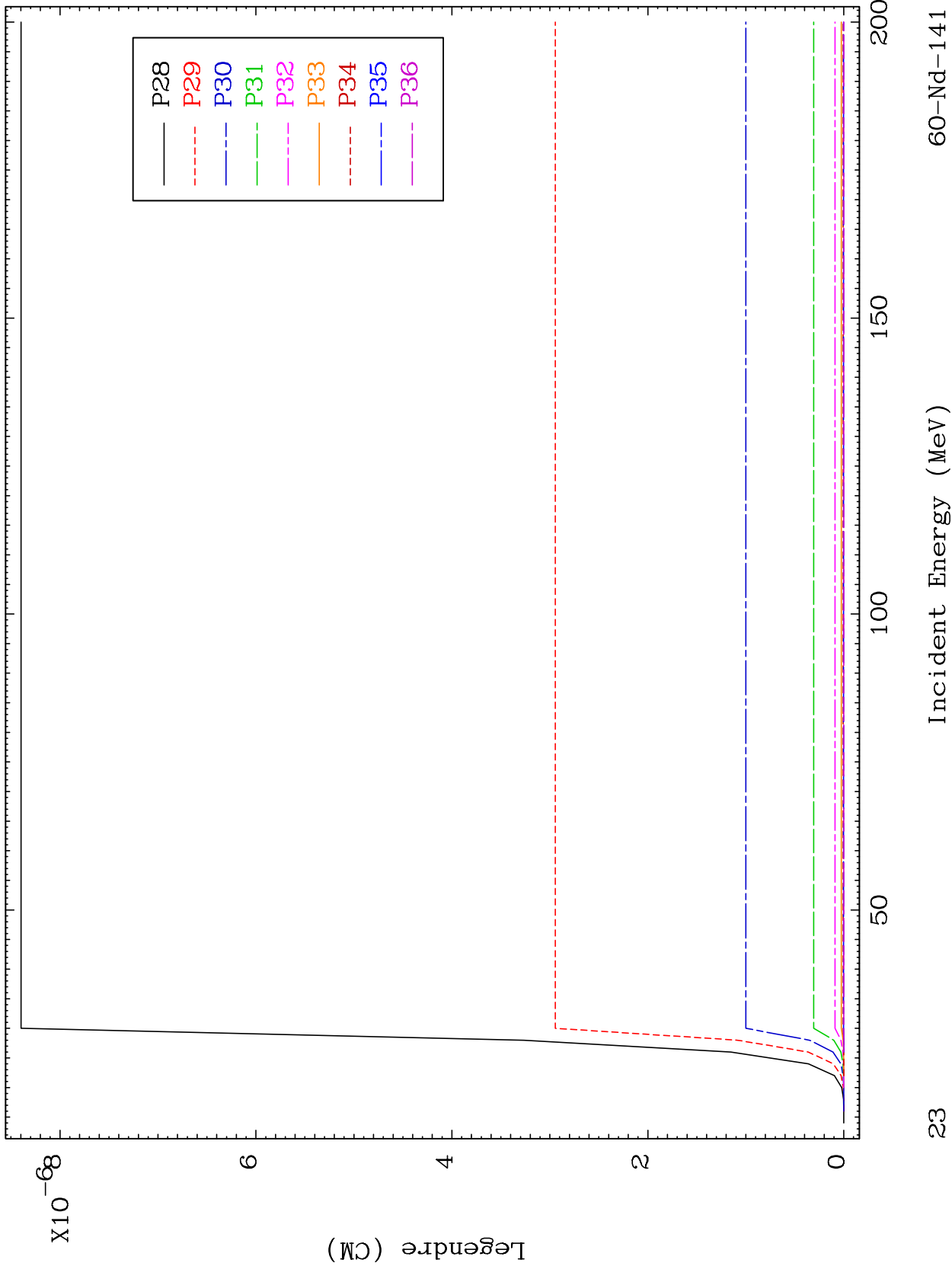
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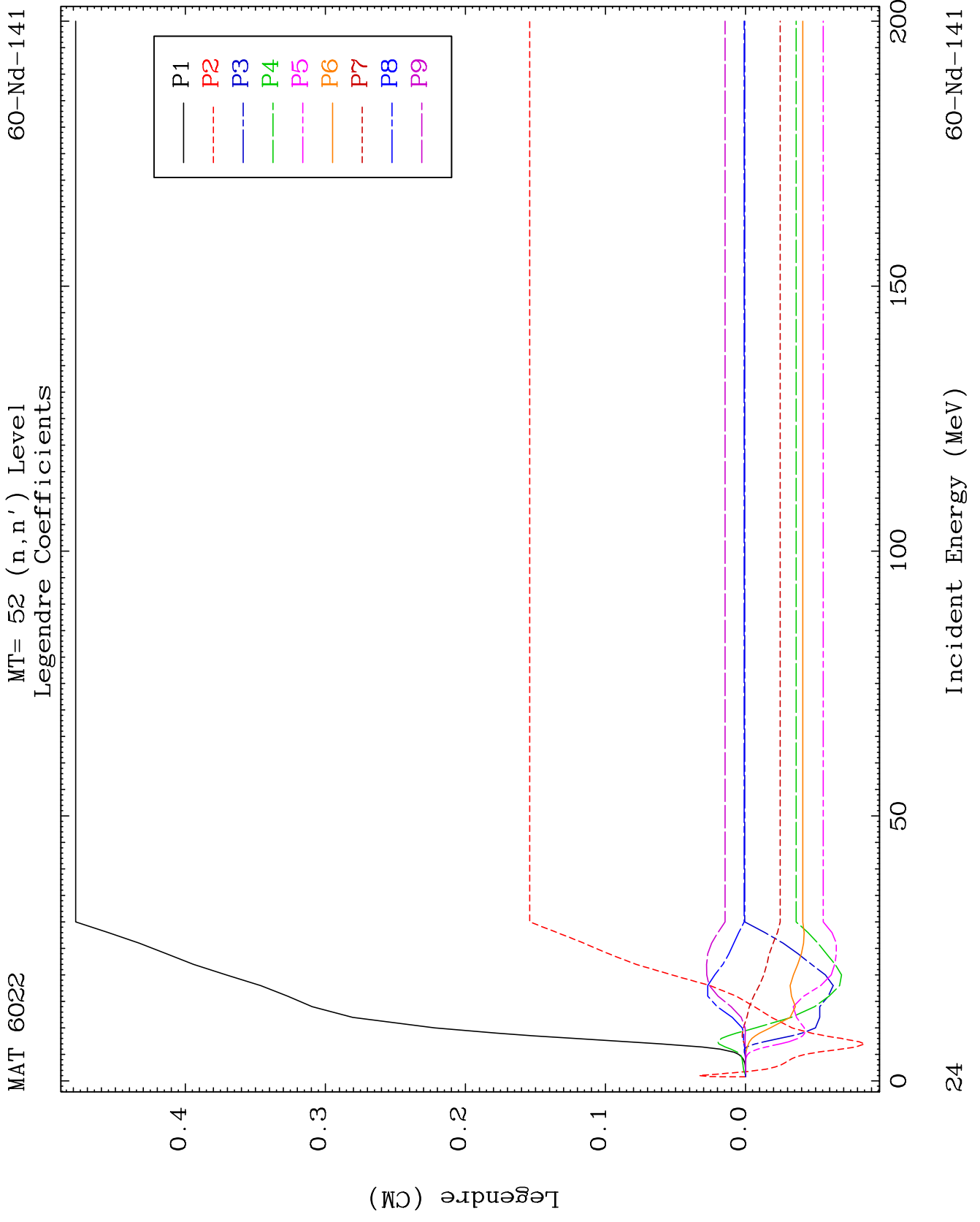
60-Nd-141

MAT 6022

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

60-Nd-141

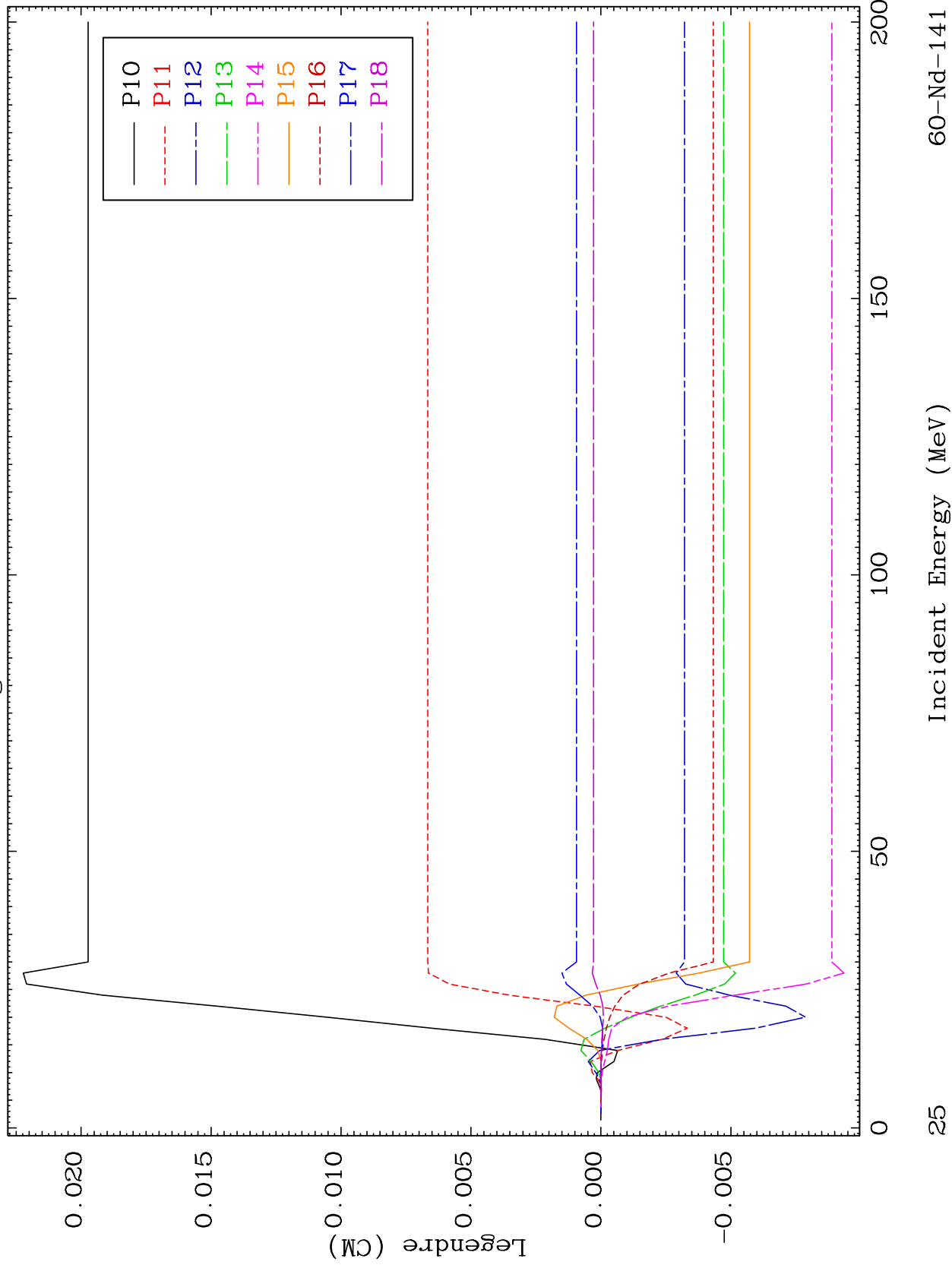




MAT 6022

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

60-Nd-141



60-Nd-141

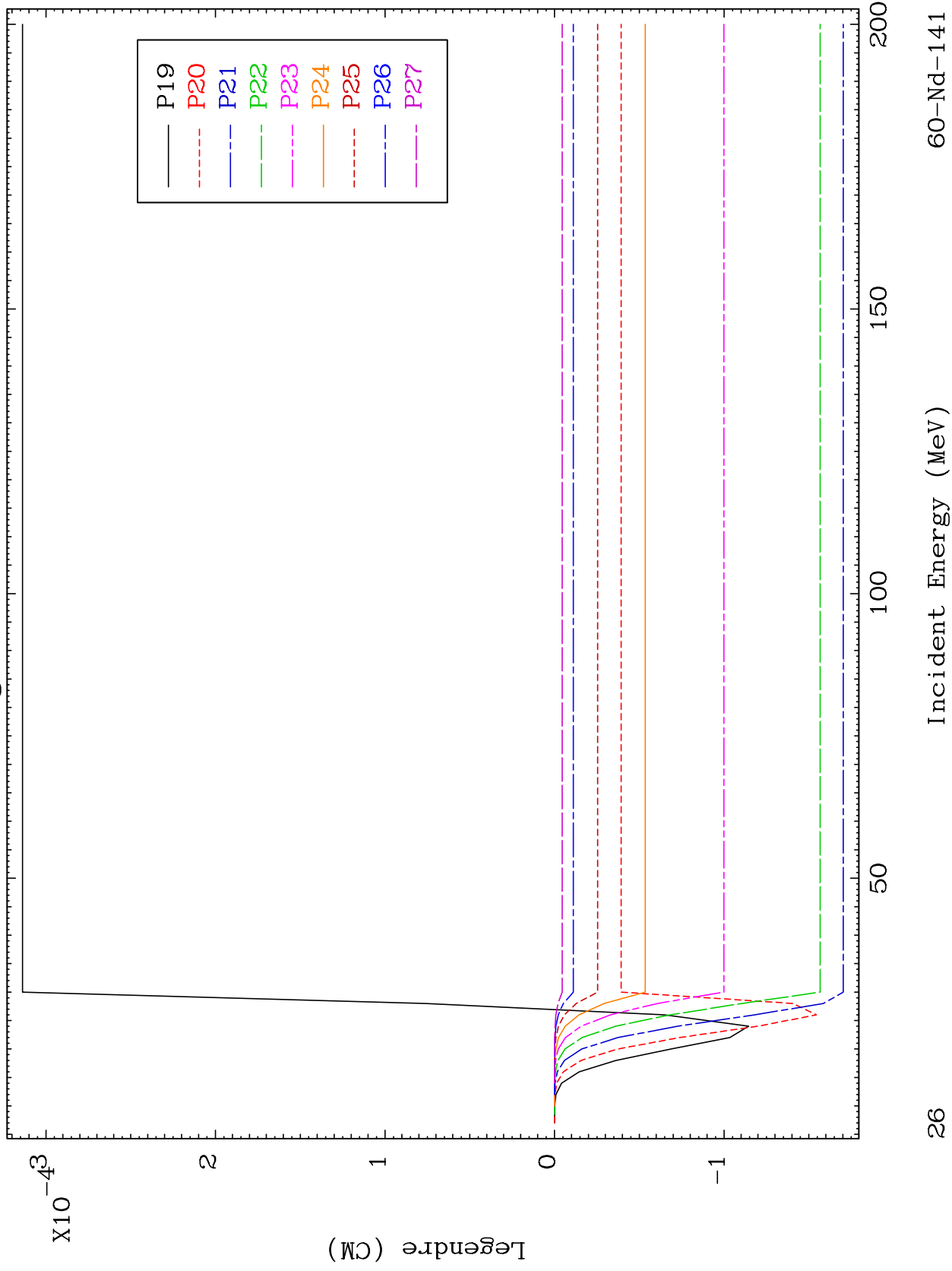
Incident Energy (MeV)

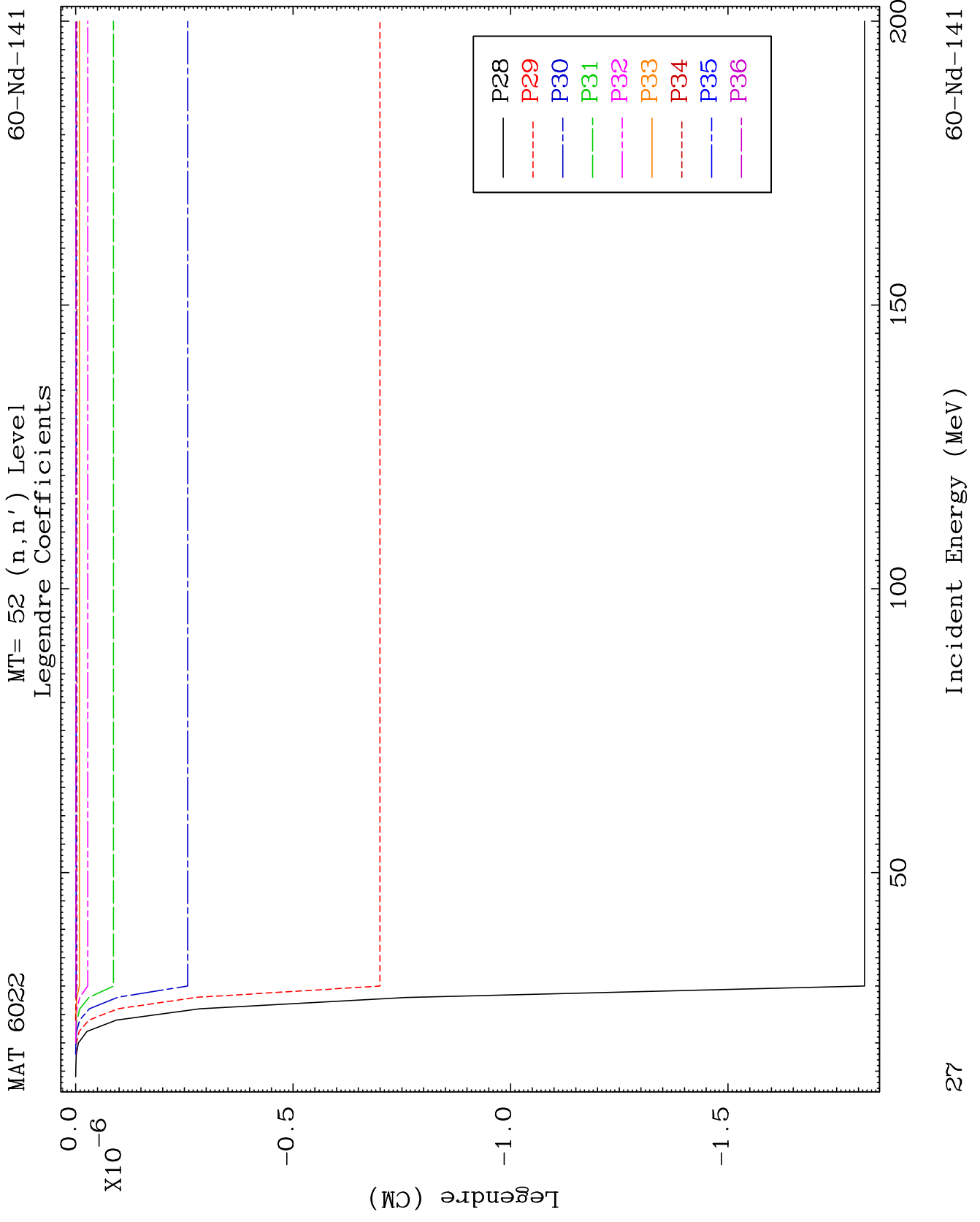
25

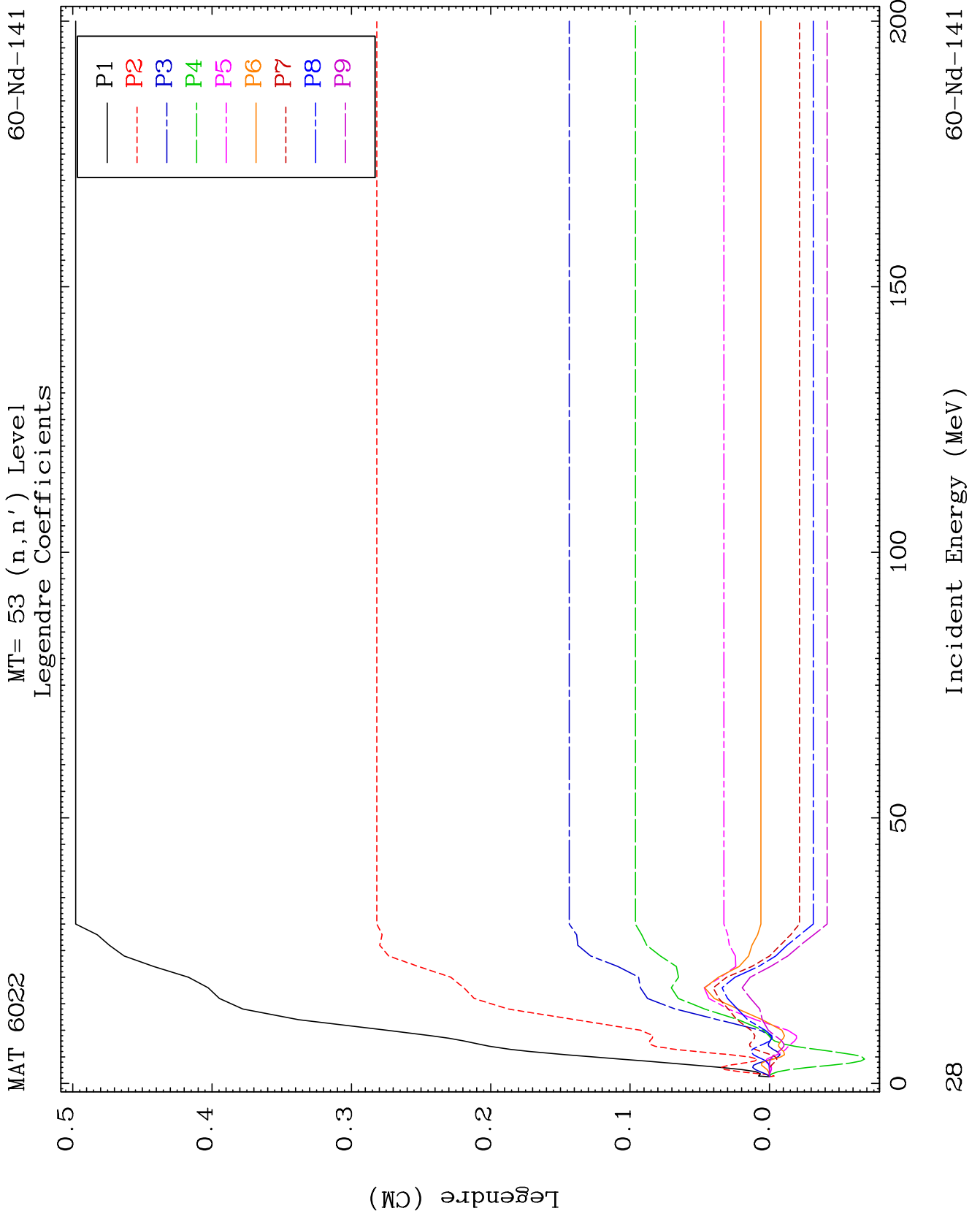
MAT 6022

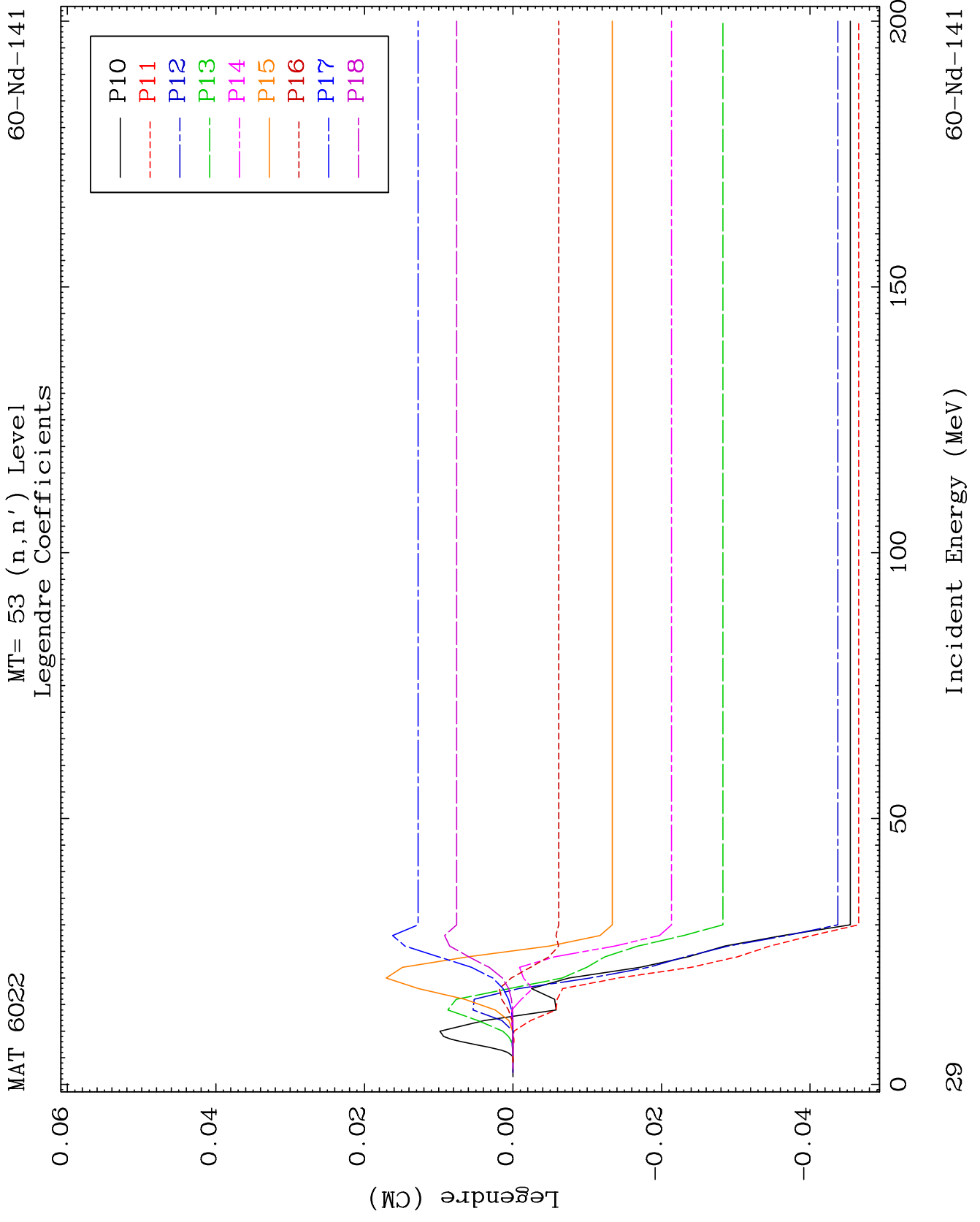
MT= 52 (n,n') Level
Legendre Coefficients

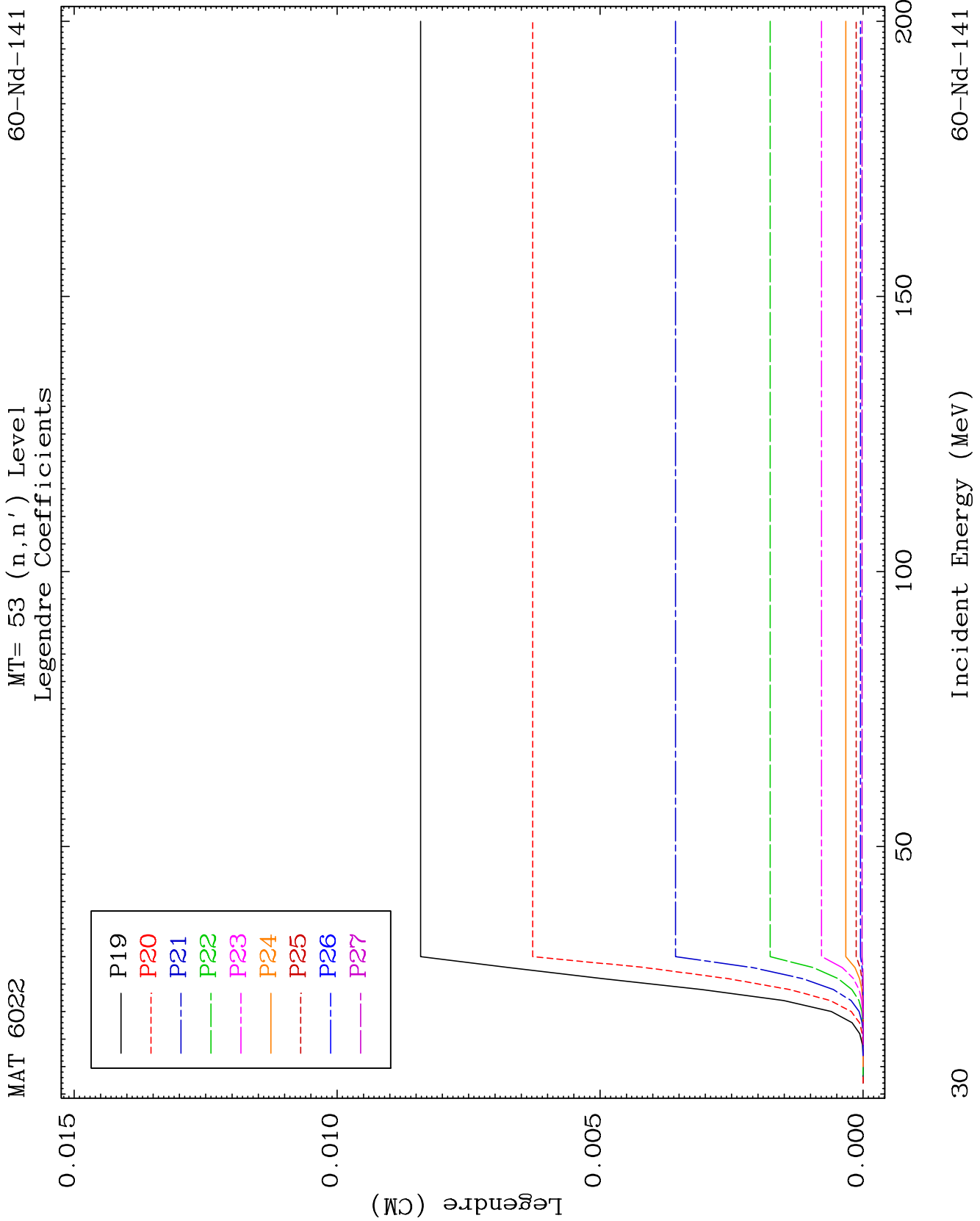
60-Nd-141







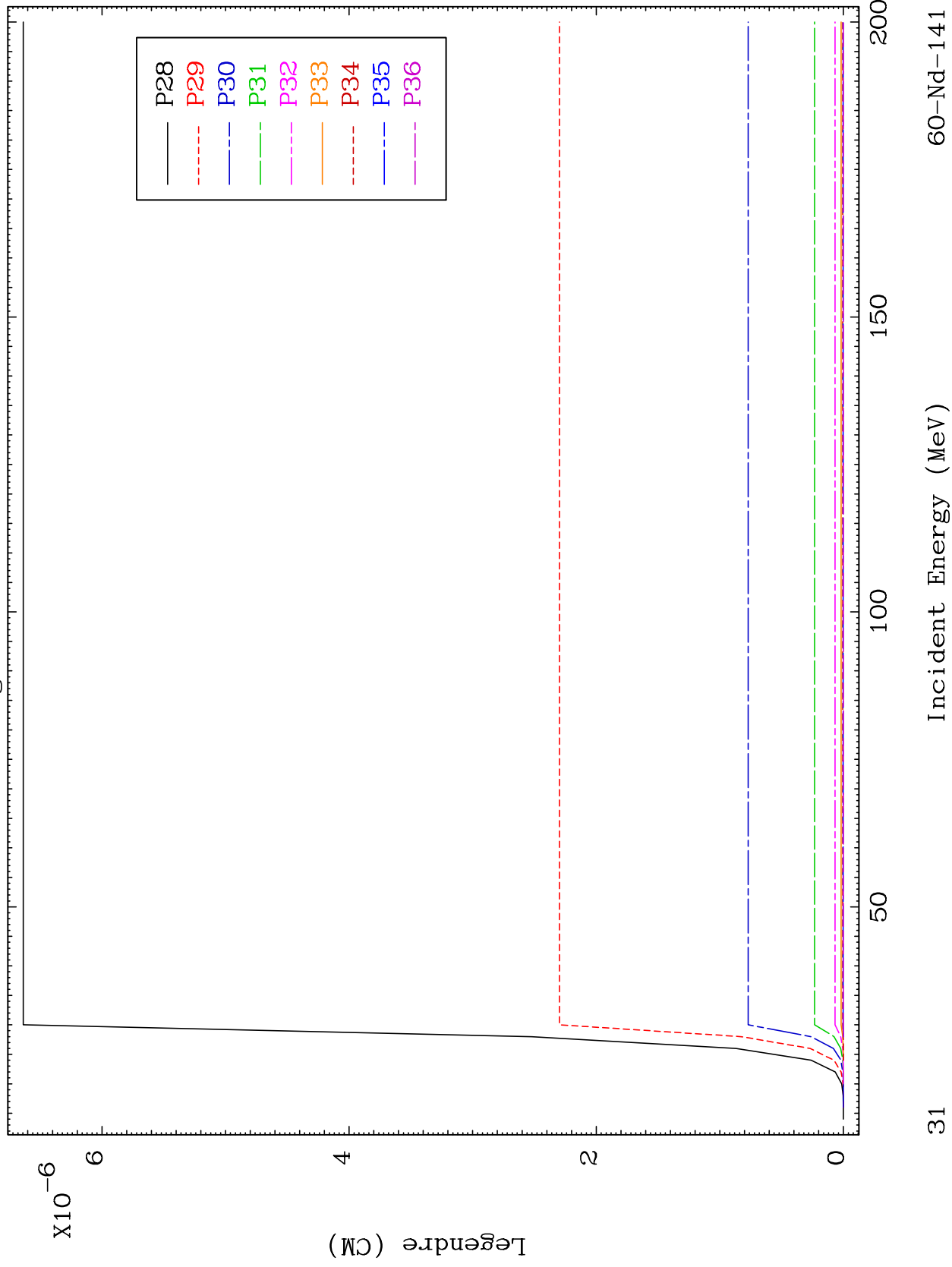




MAT 6022

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

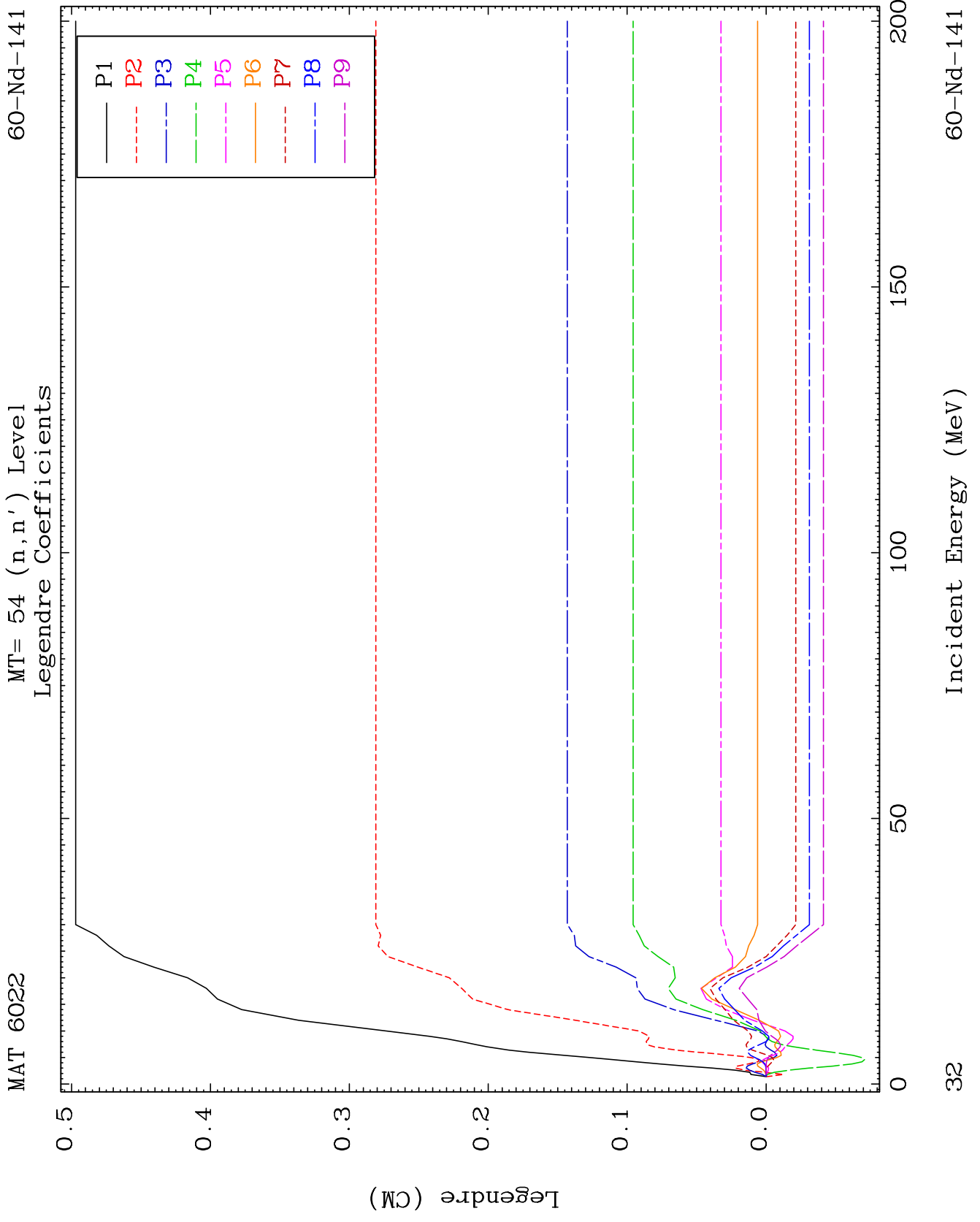
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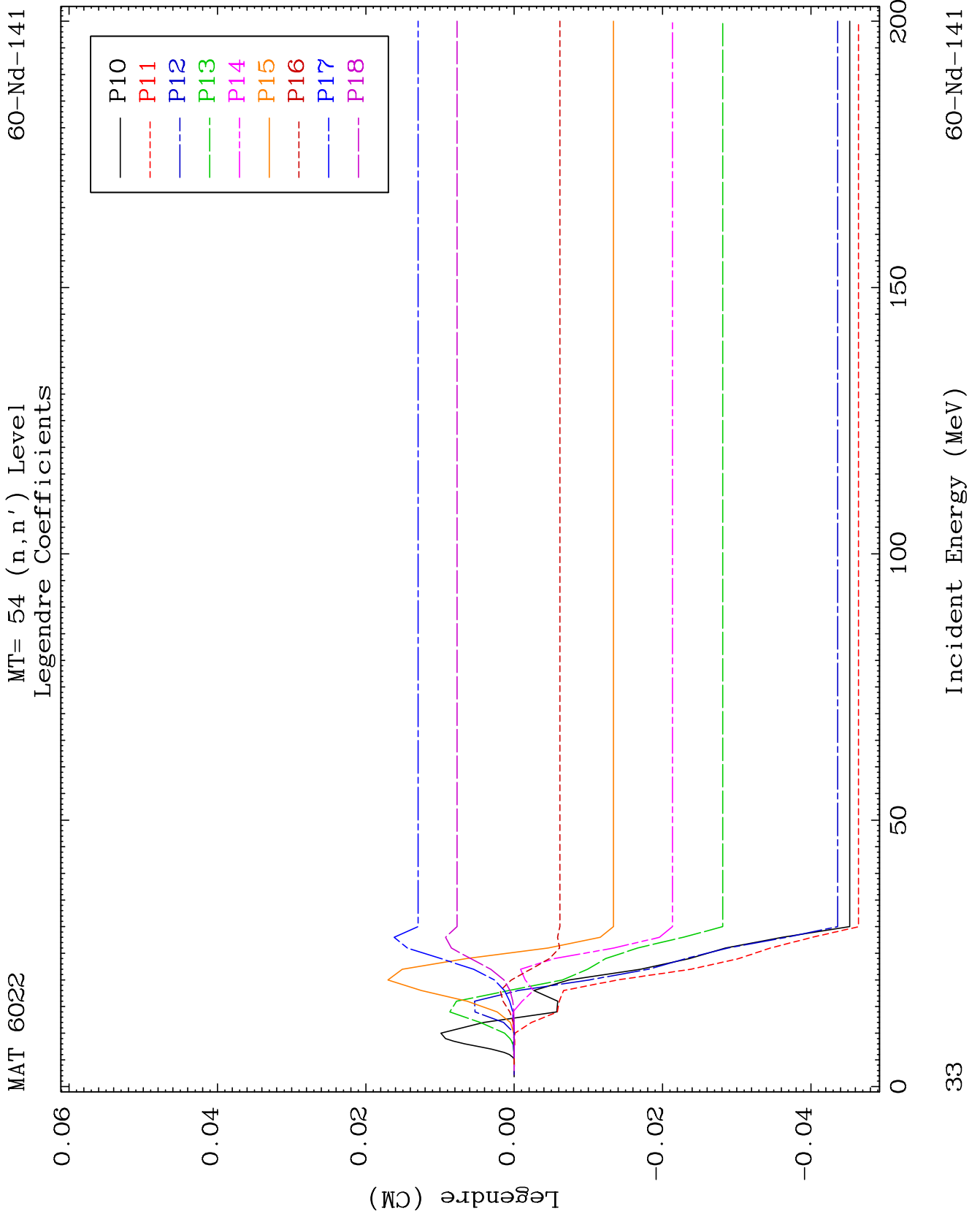


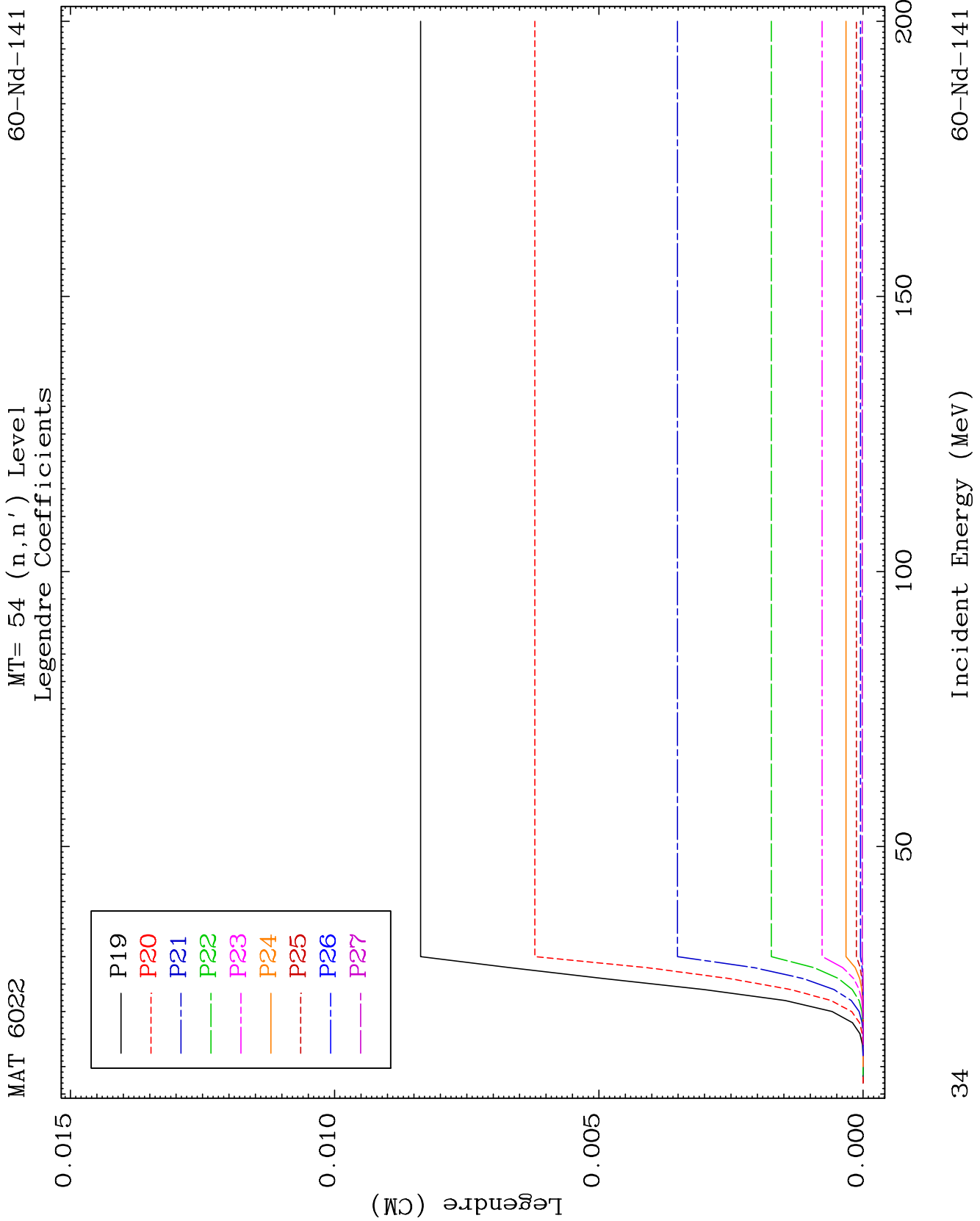
31

Incident Energy (MeV)

60-Nd-141



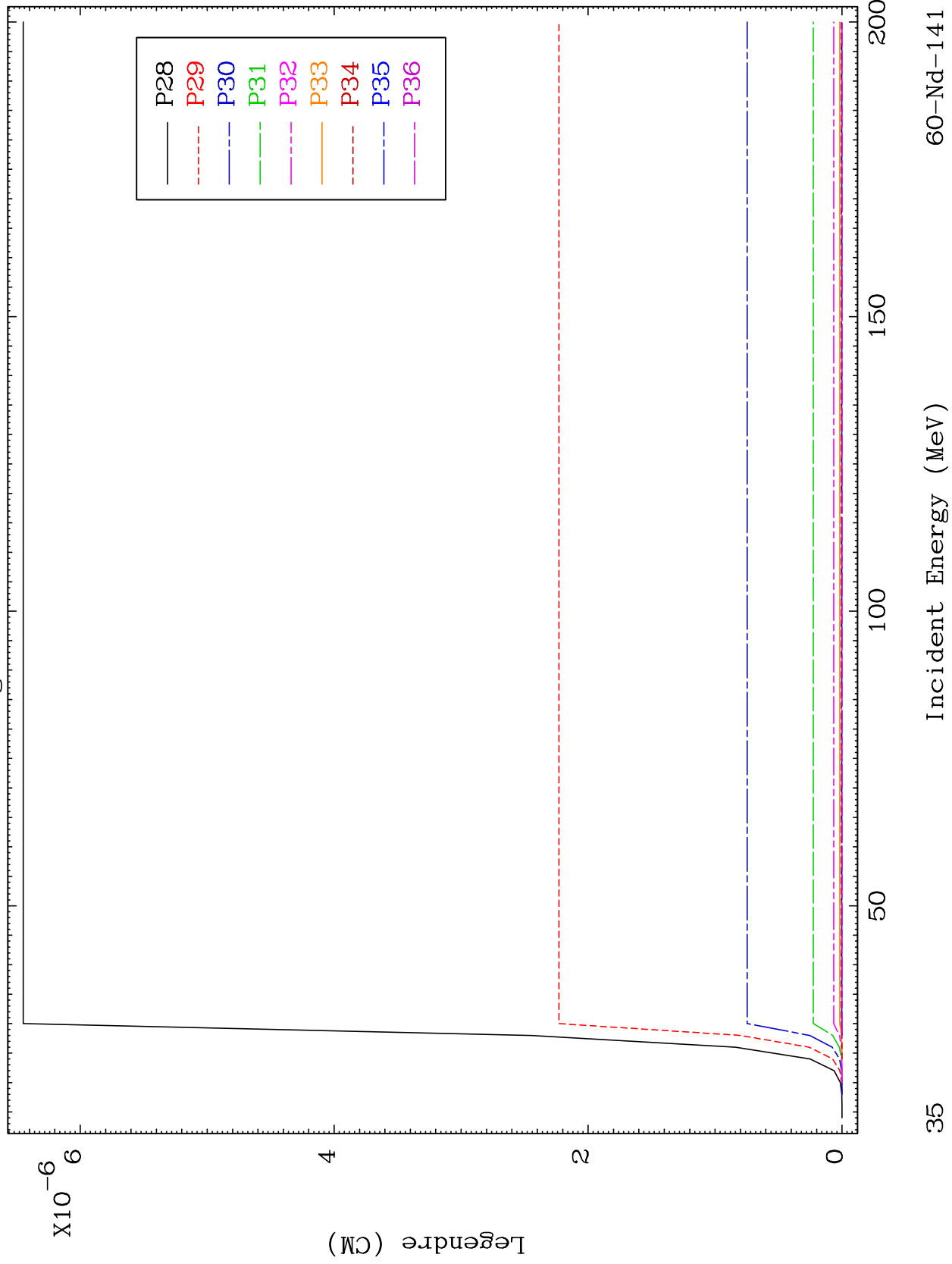




MAT 6022

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

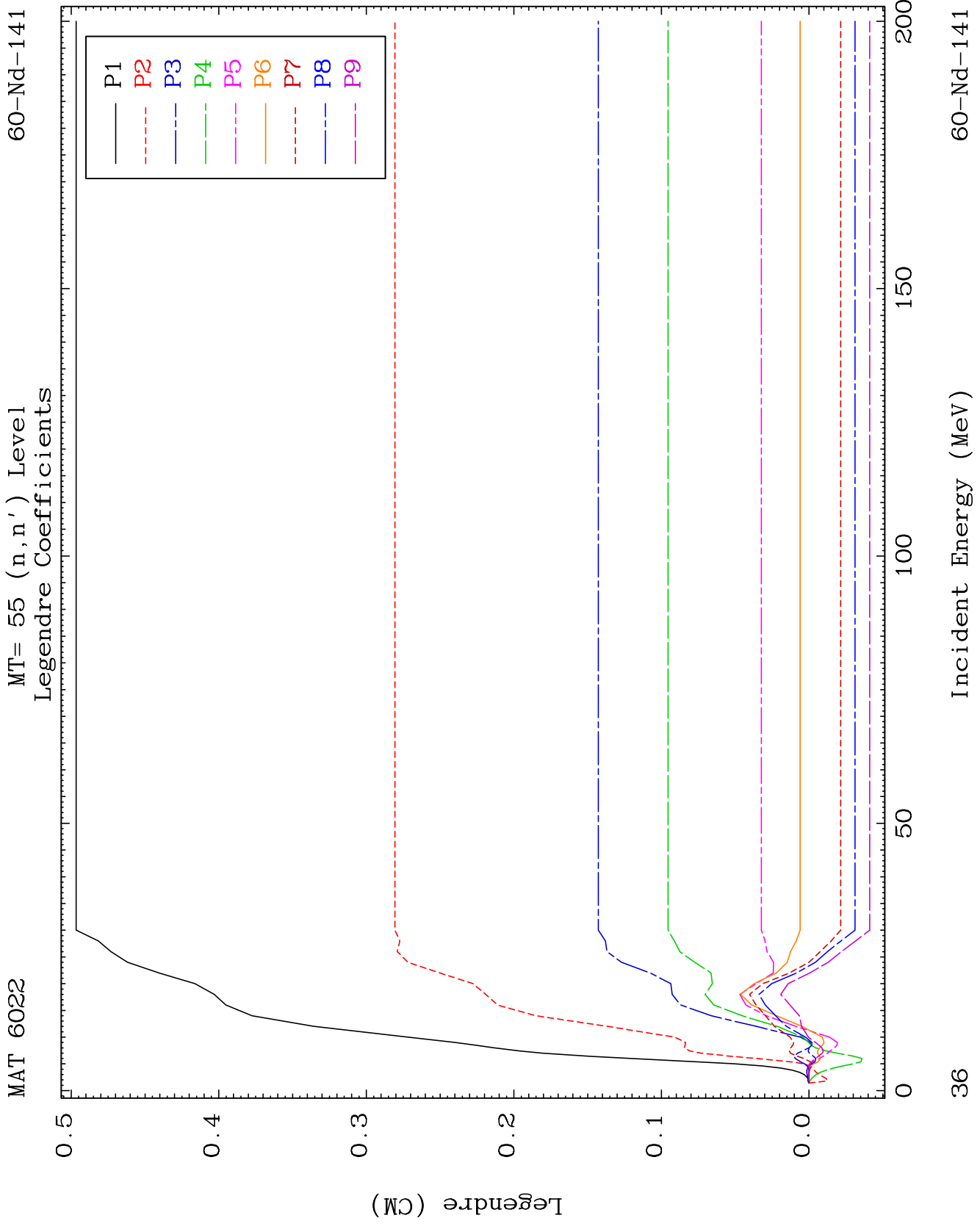
60-Nd-141

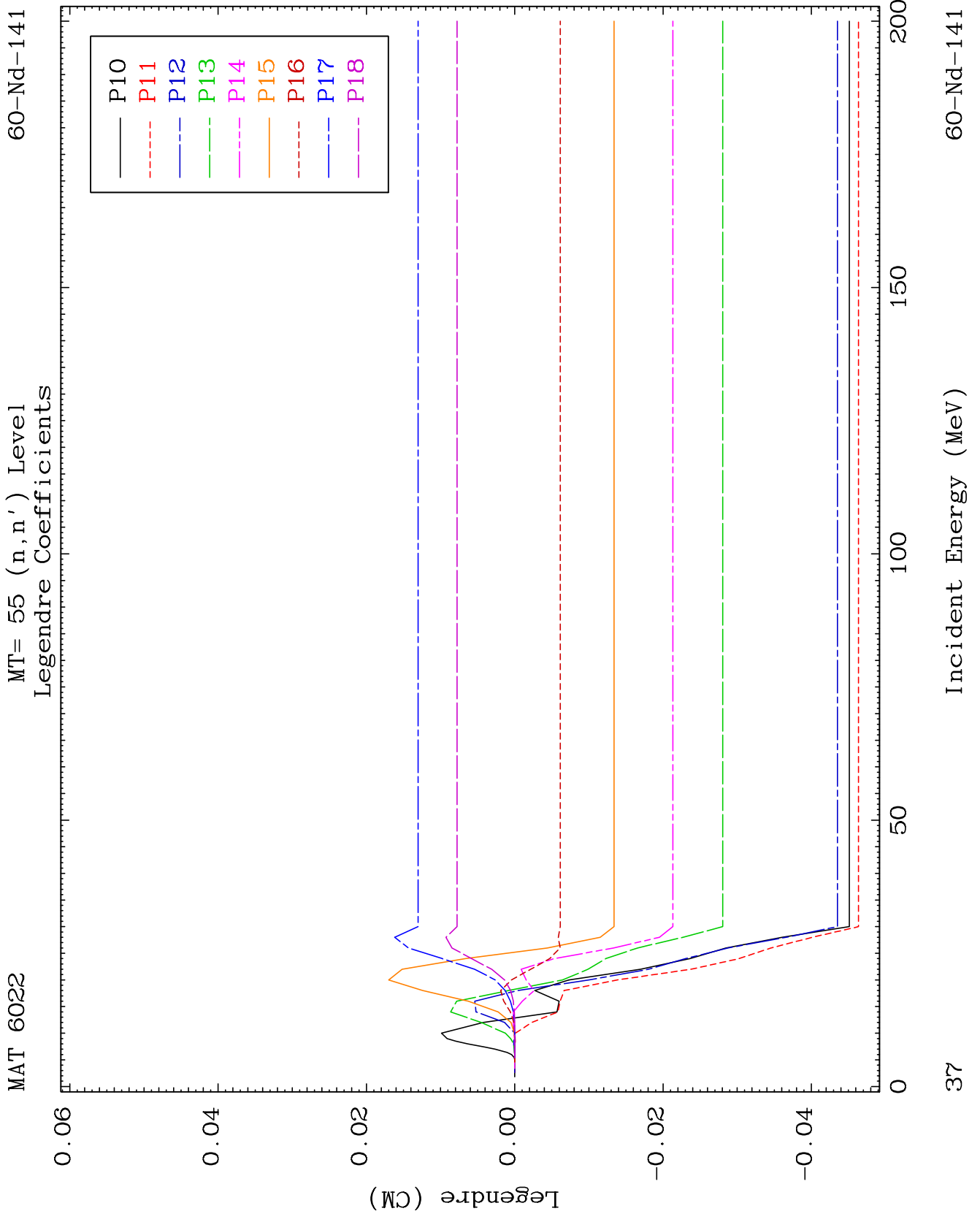


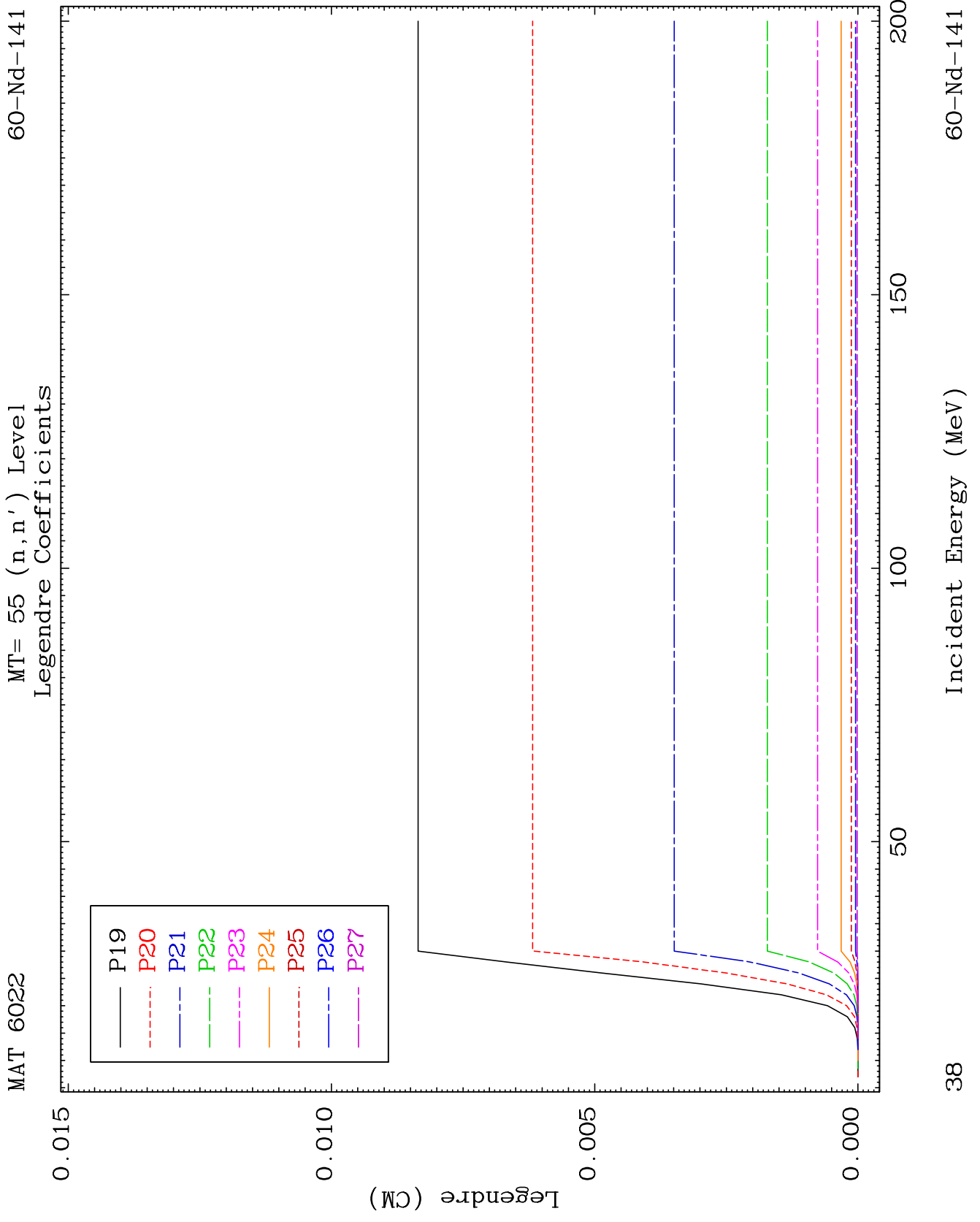
35

Incident Energy (MeV)

60-Nd-141



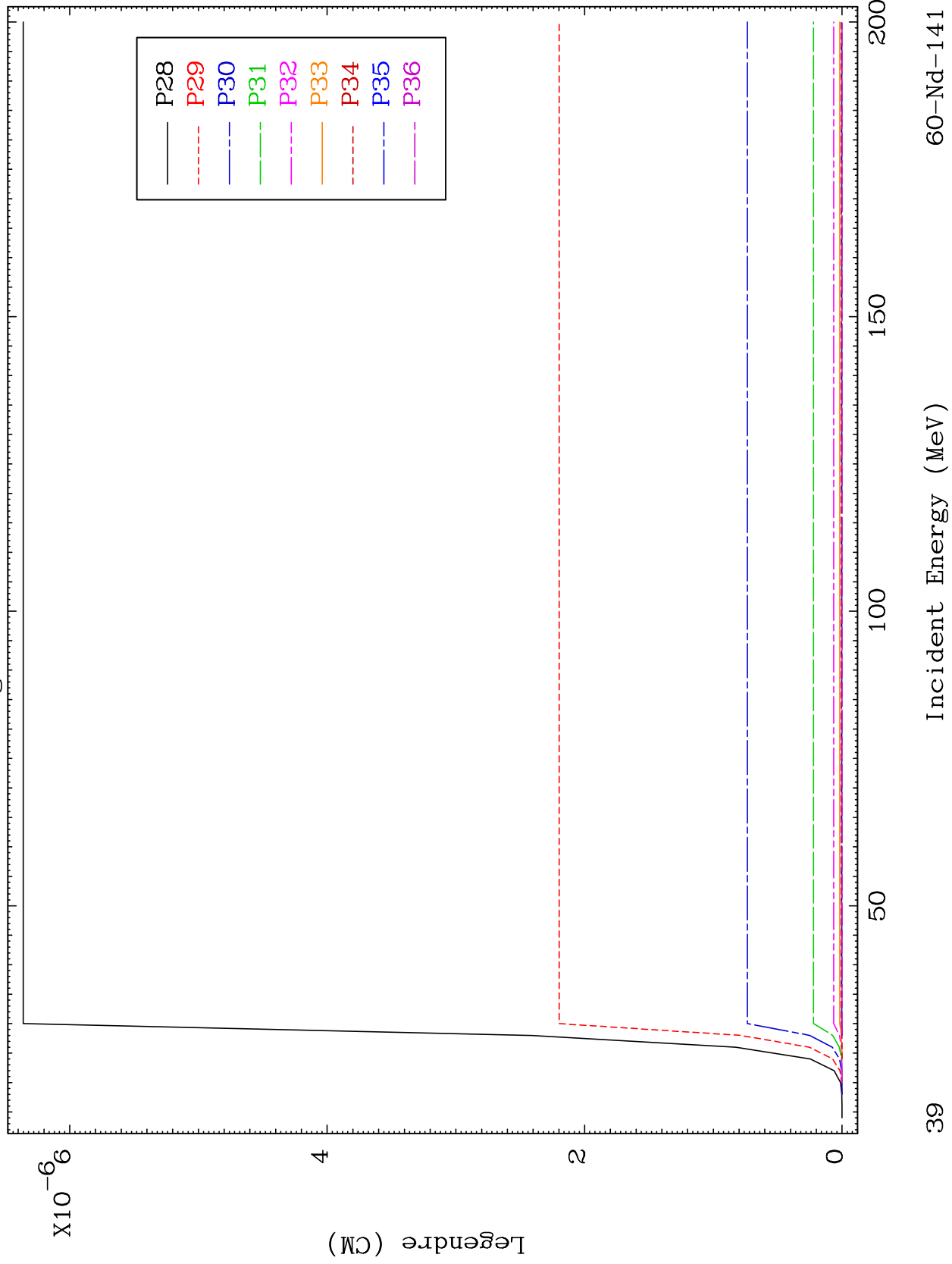




MAT 6022

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

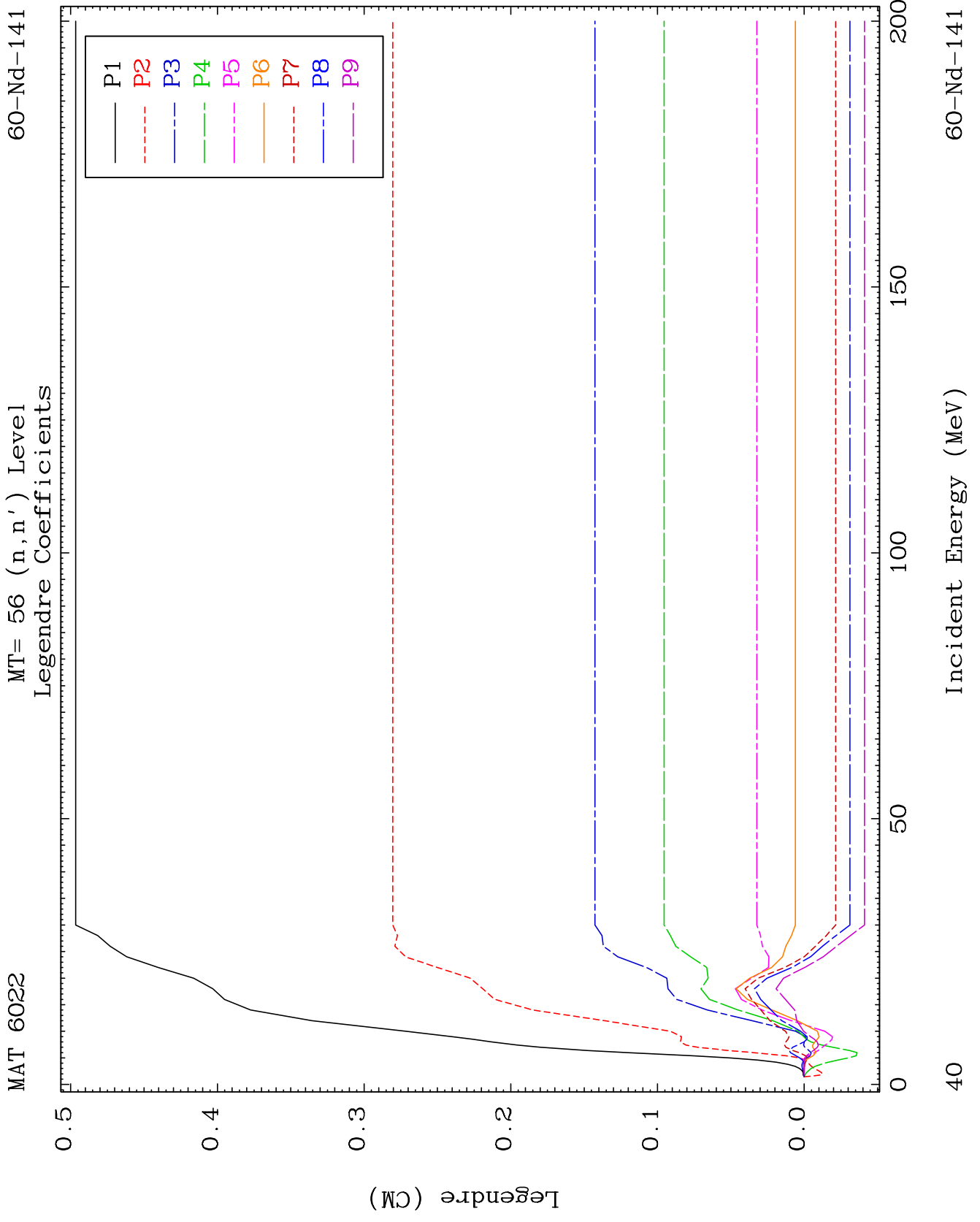
60-Nd-141

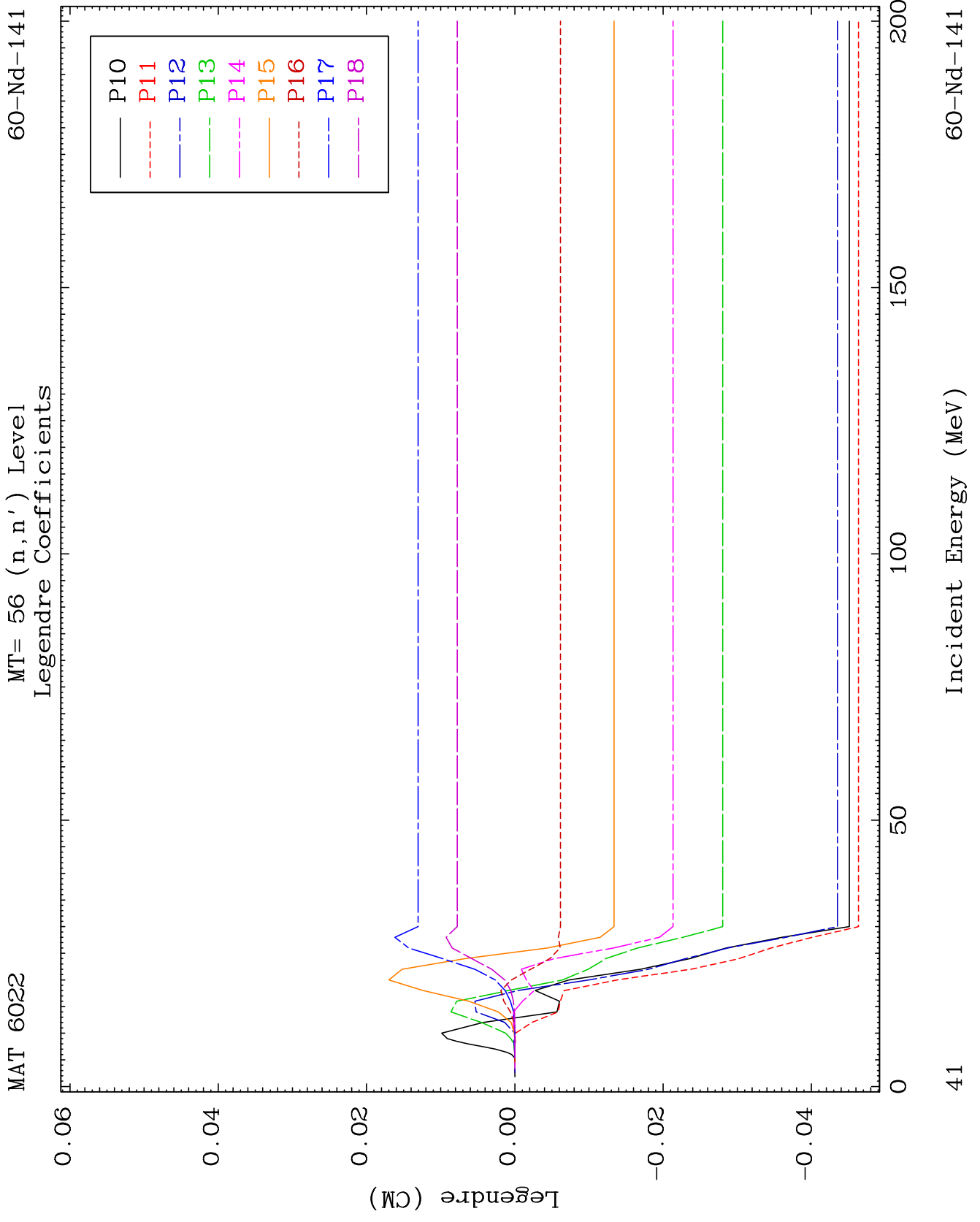


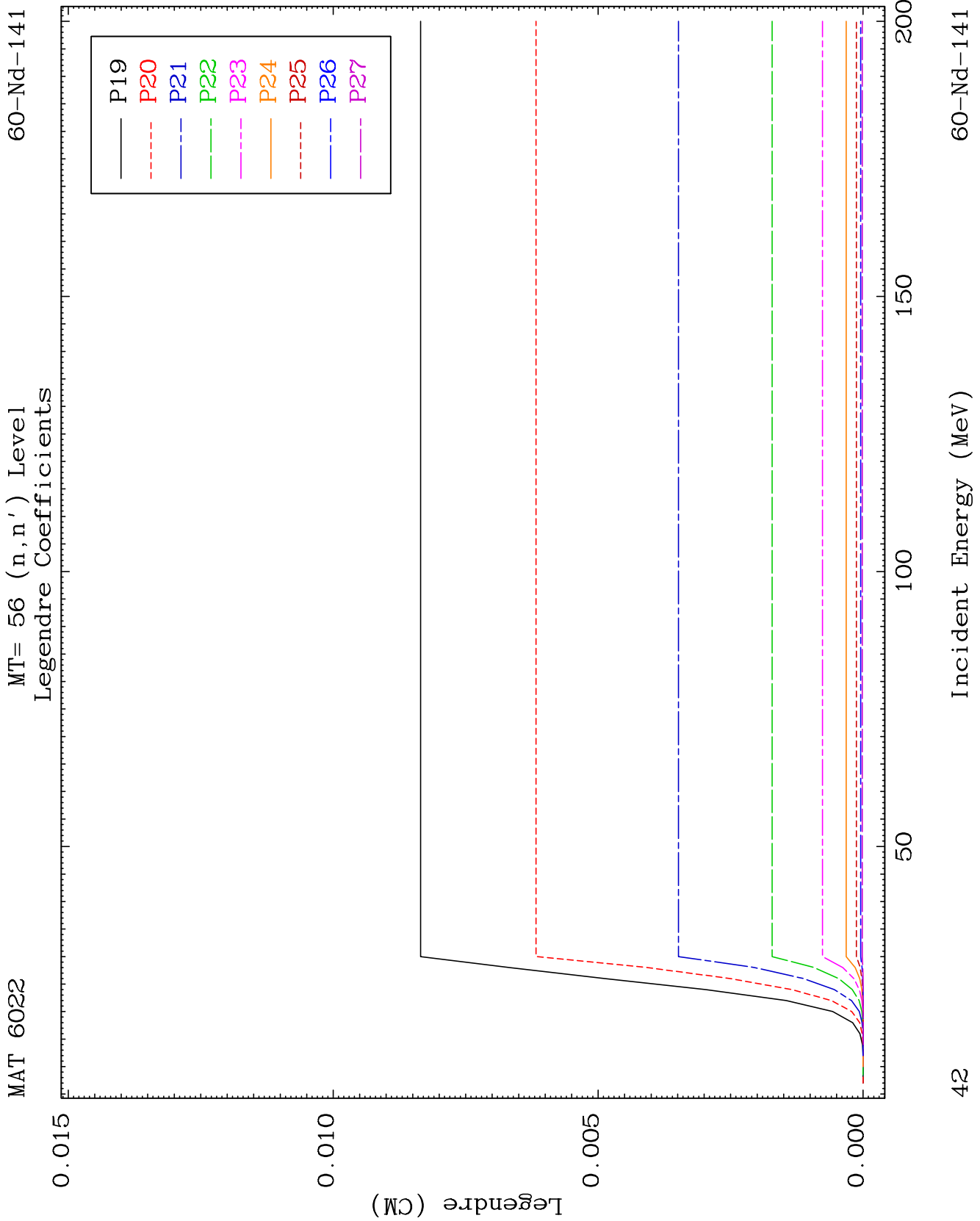
39

Incident Energy (MeV)

60-Nd-141



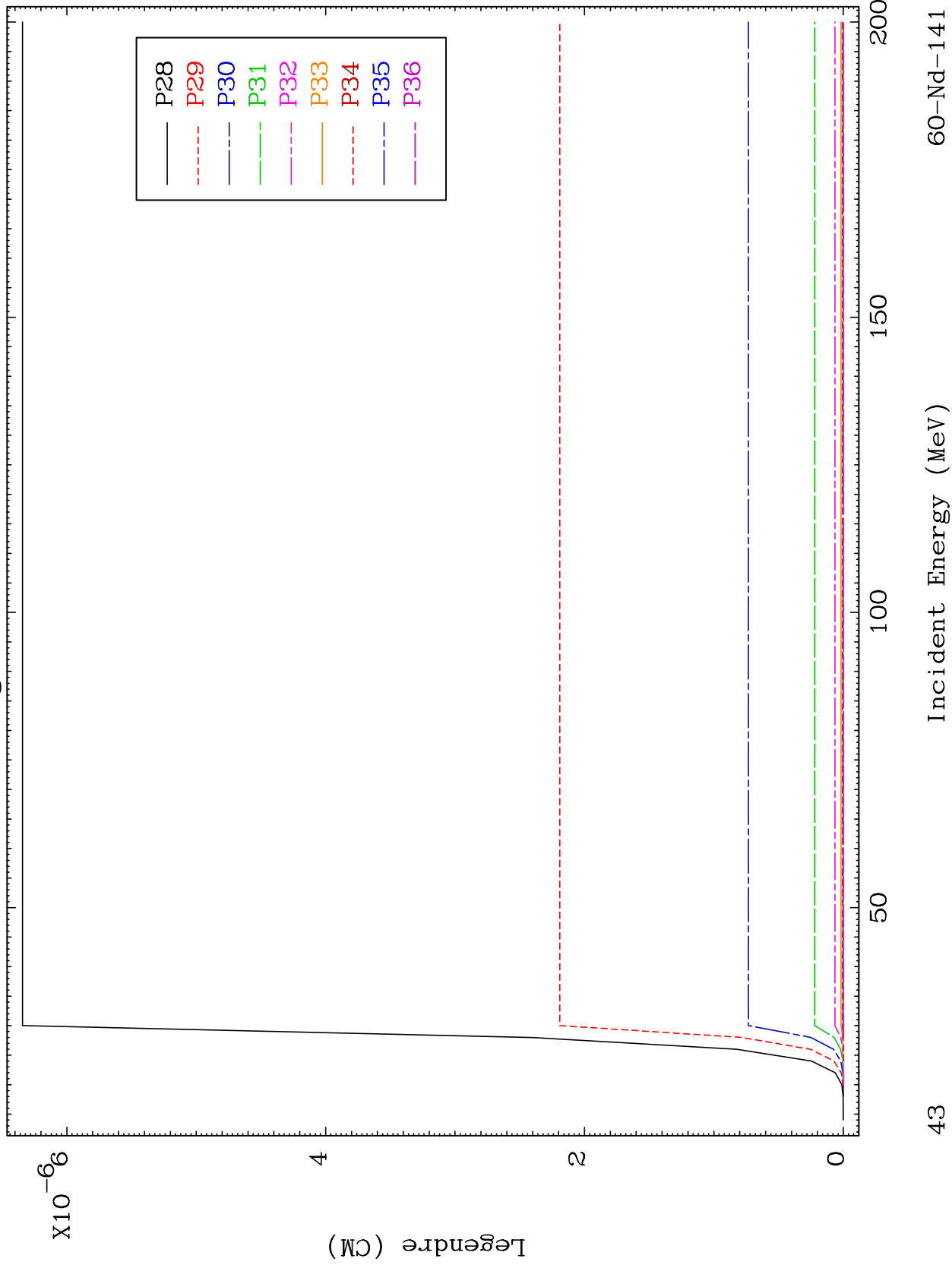




MAT 6022

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

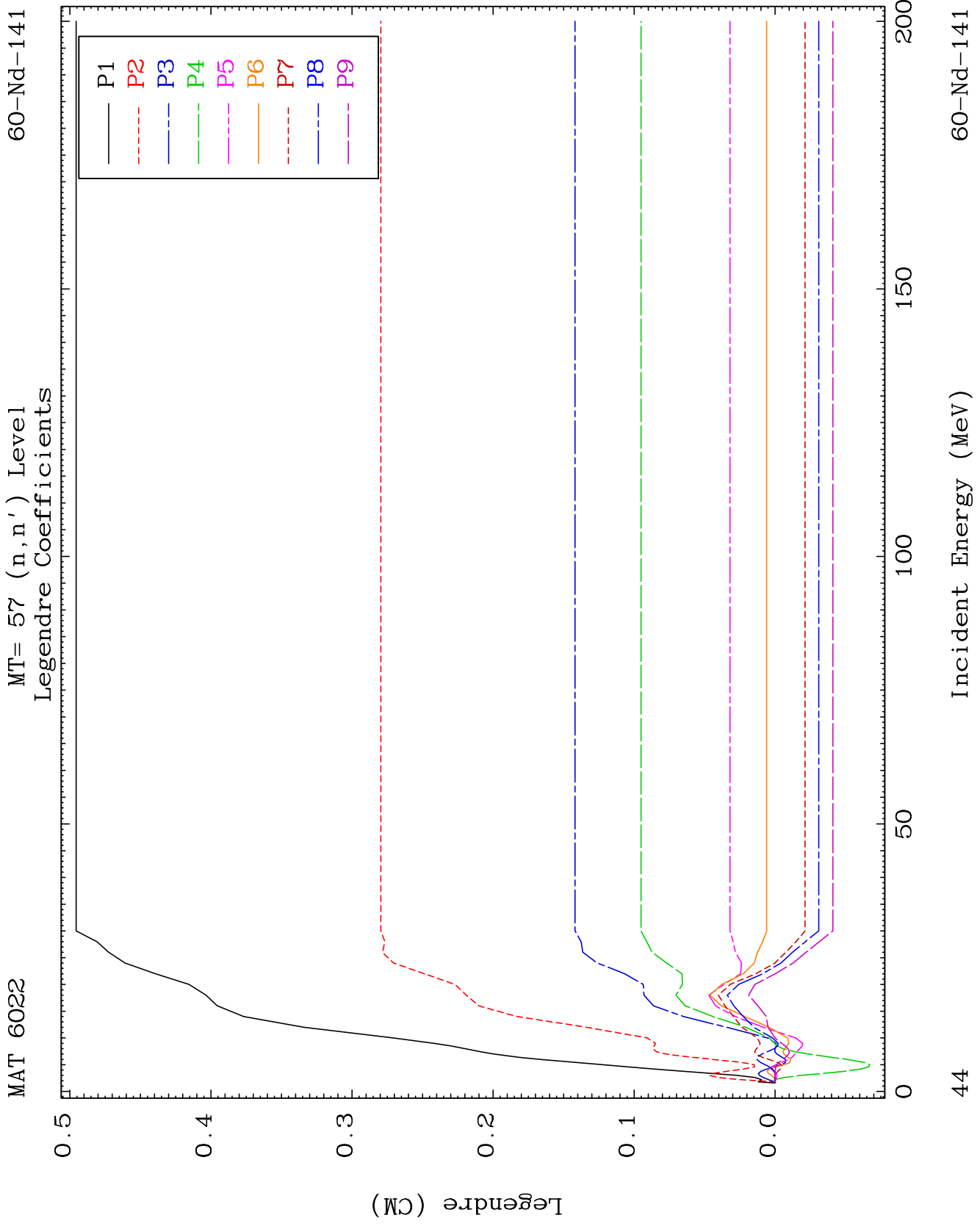
60-Nd-141

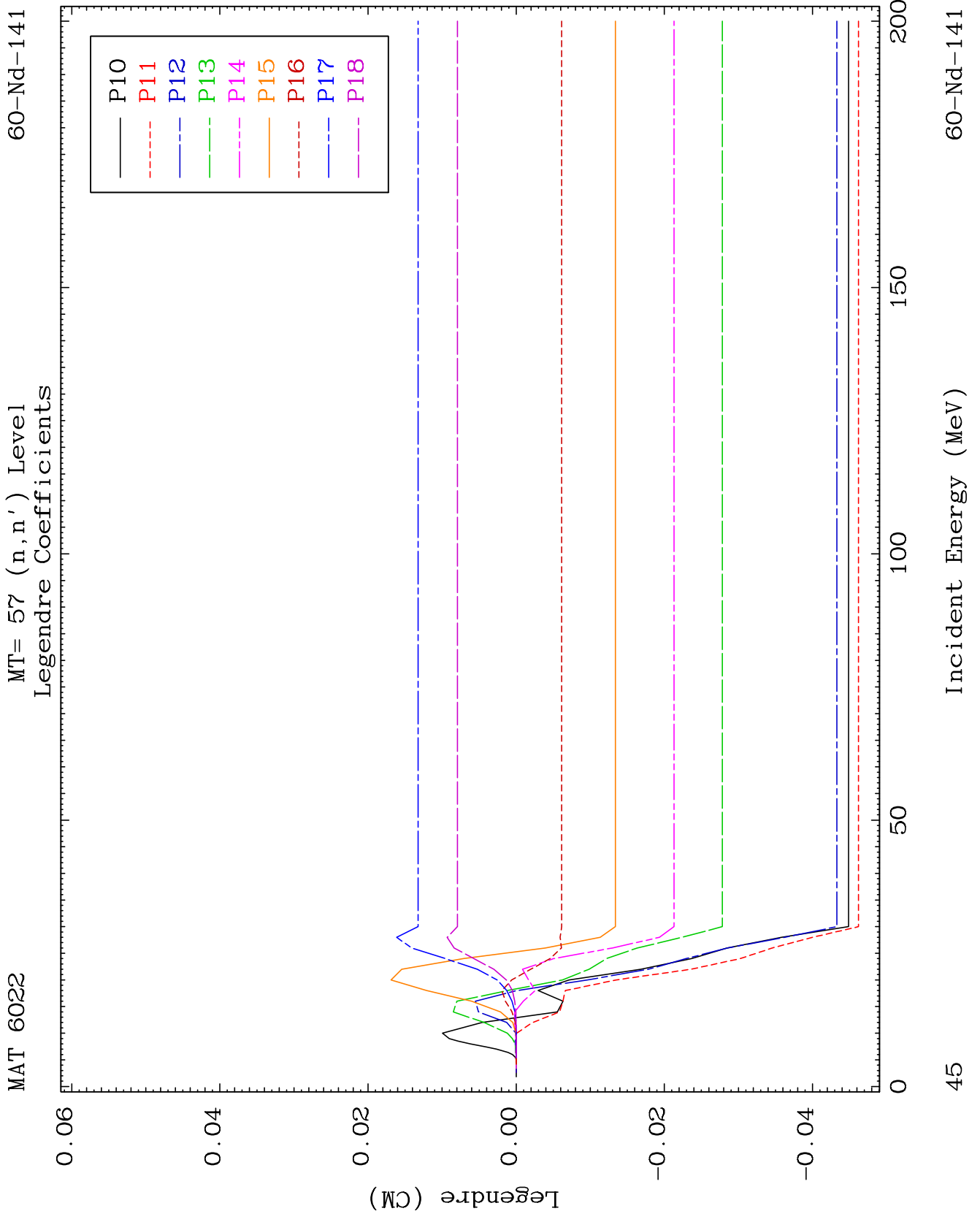


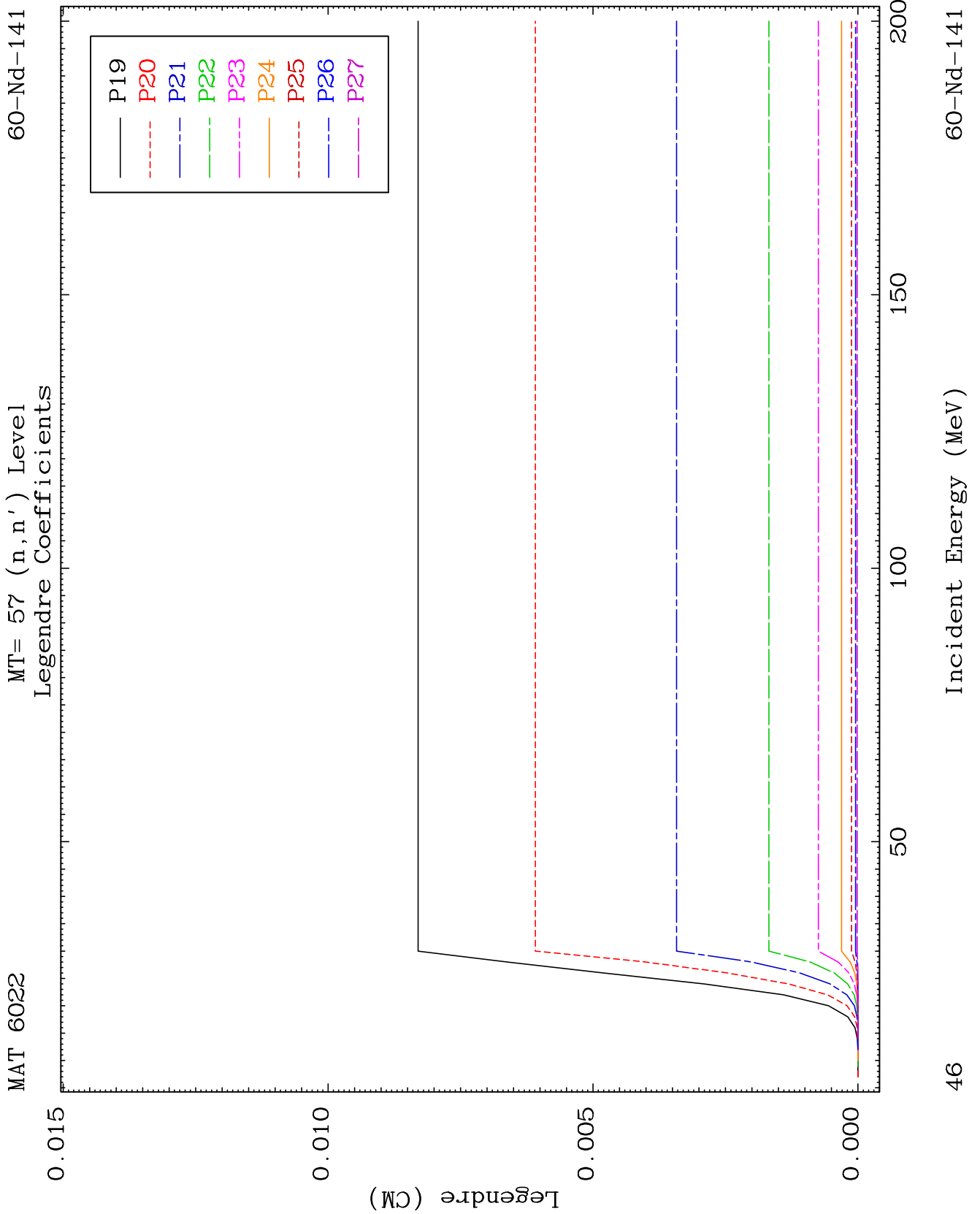
43

Incident Energy (MeV)

60-Nd-141



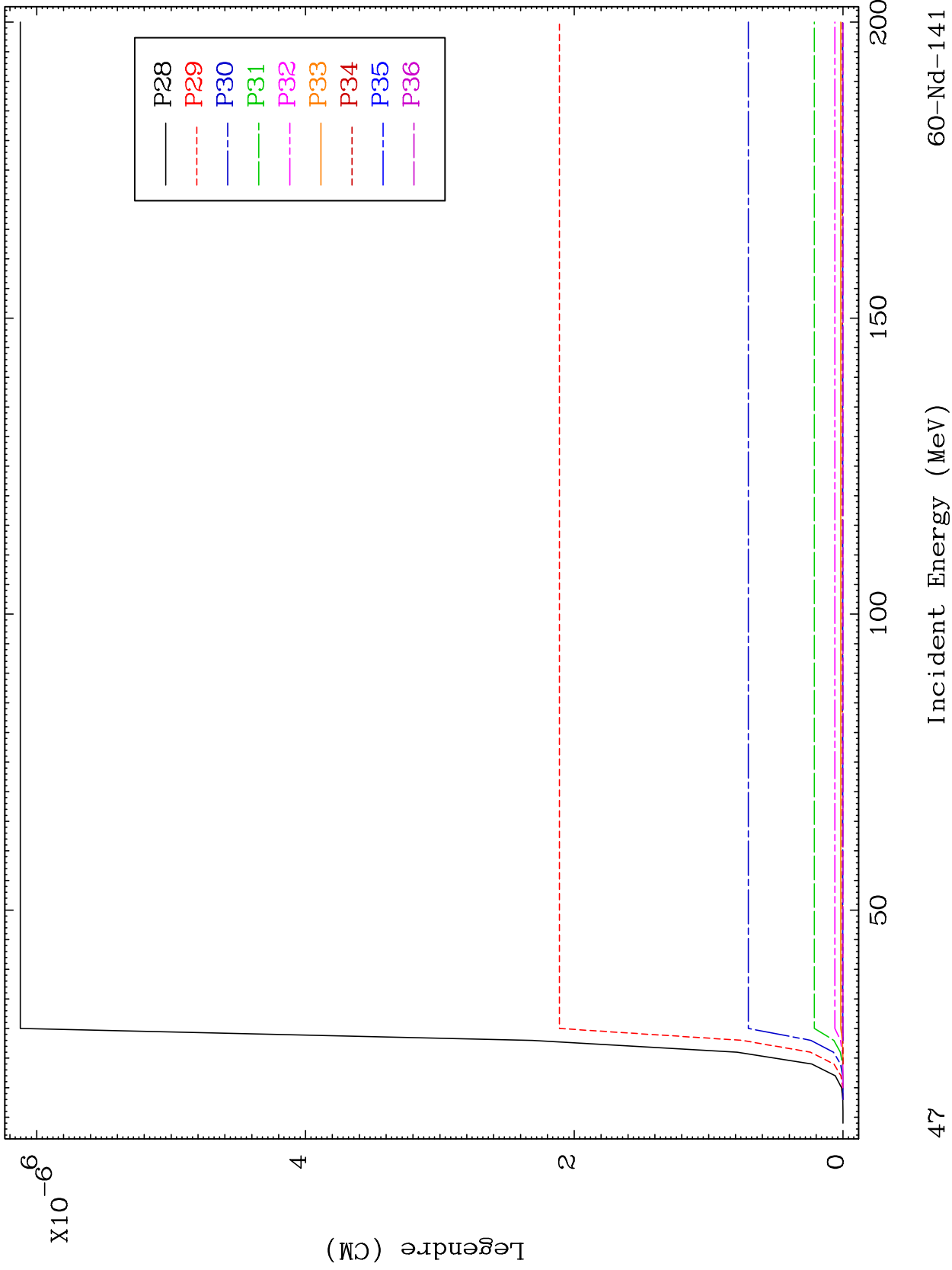


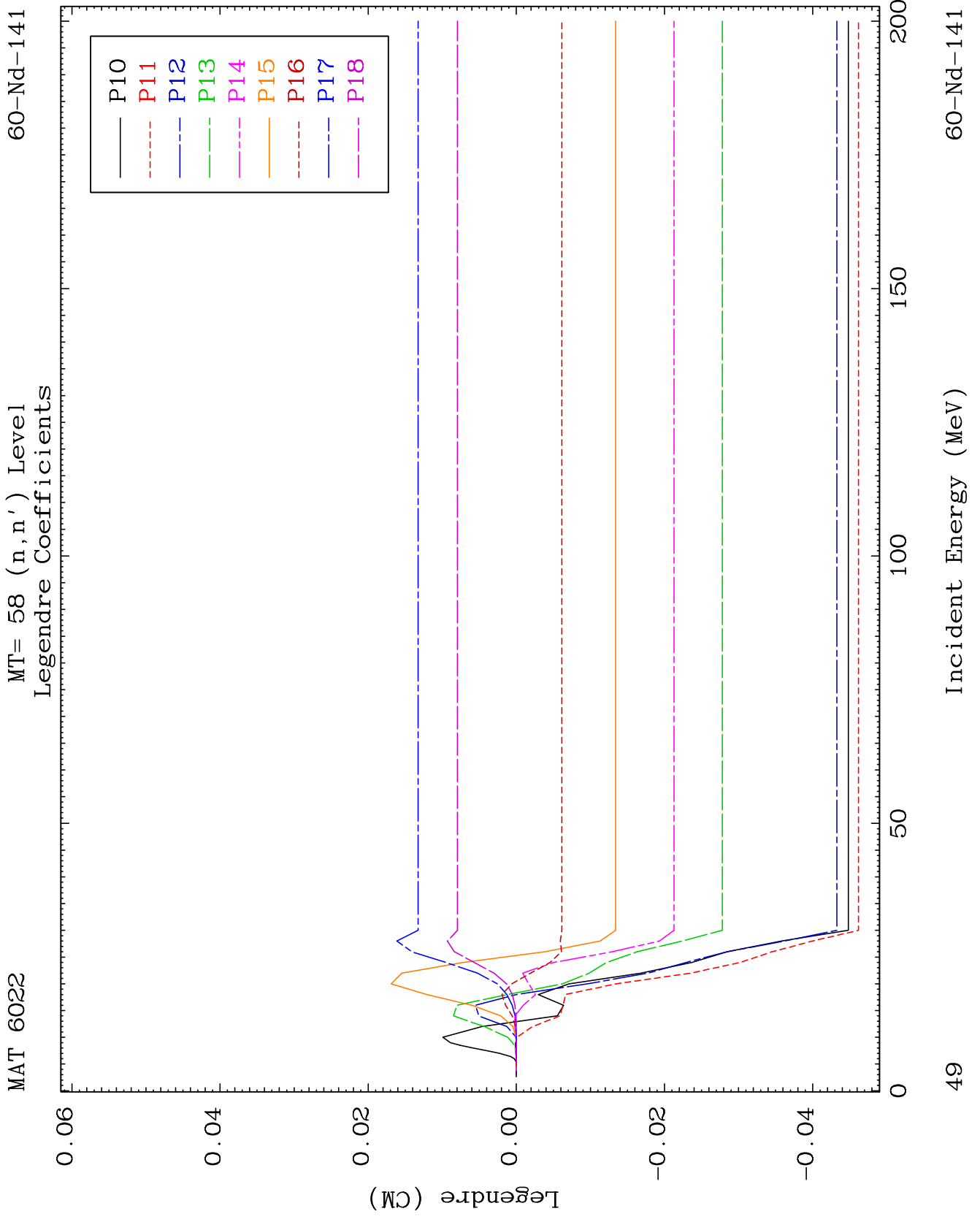


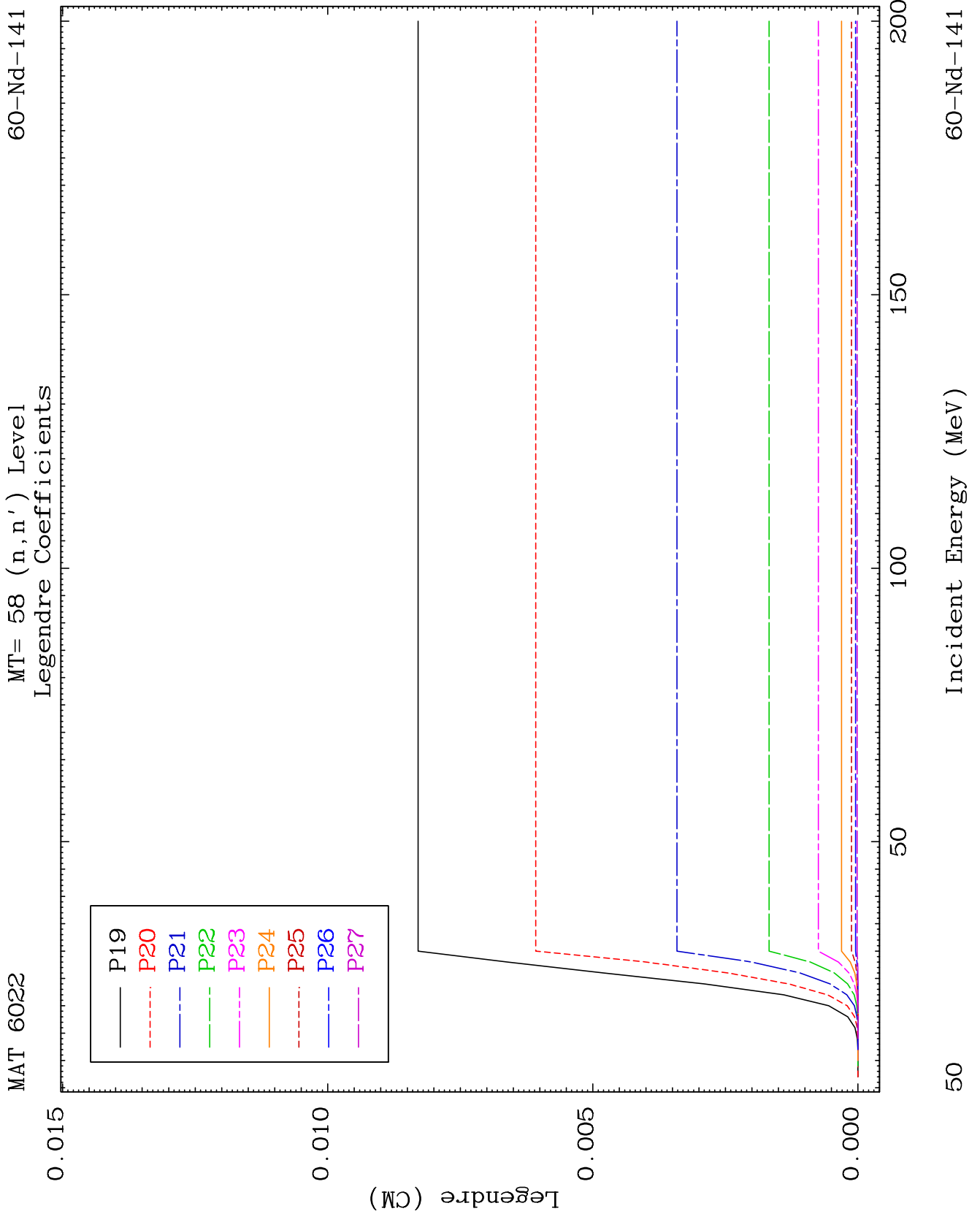
MAT 6022

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

60-Nd-141



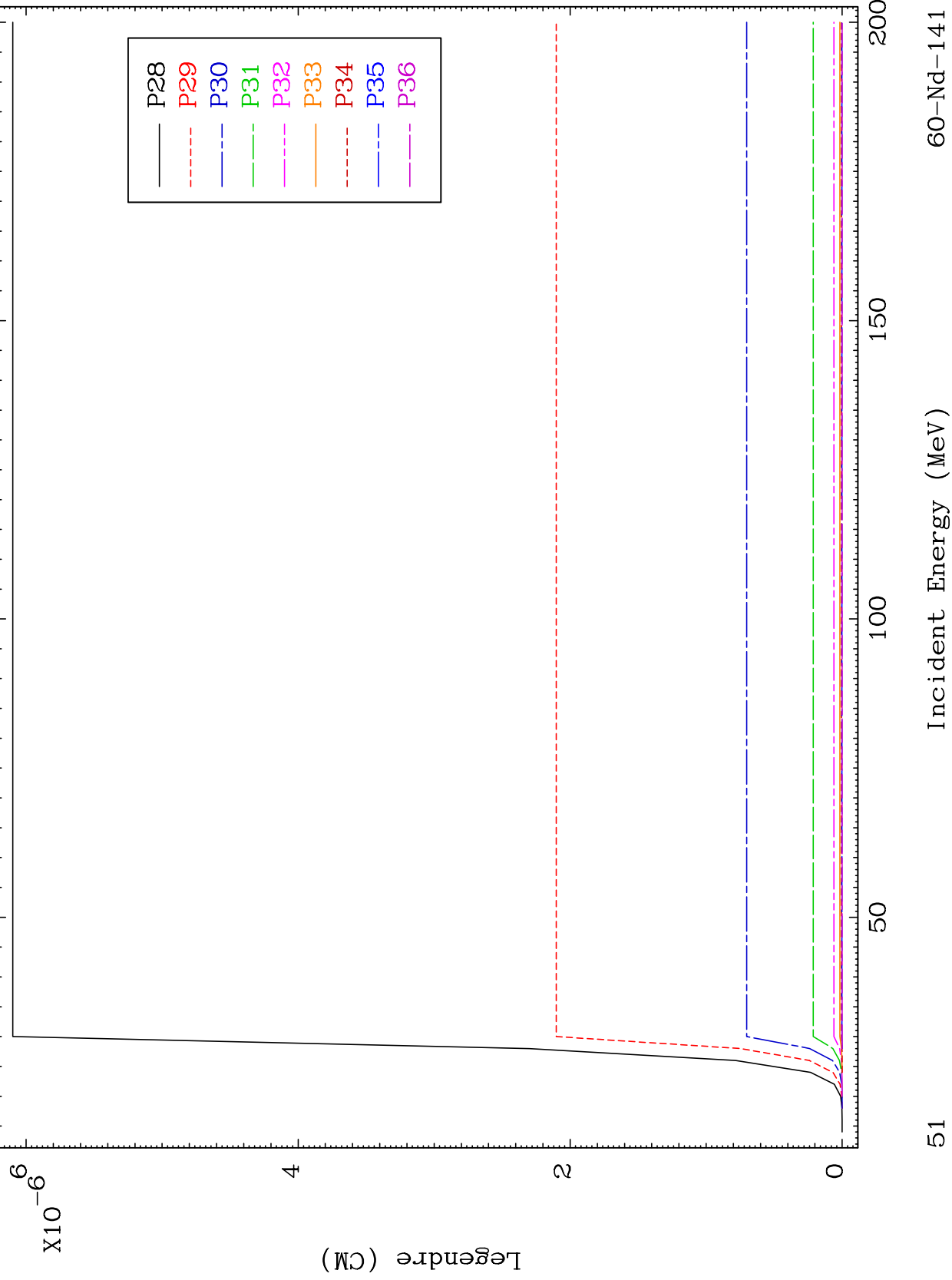




MAT 6022

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

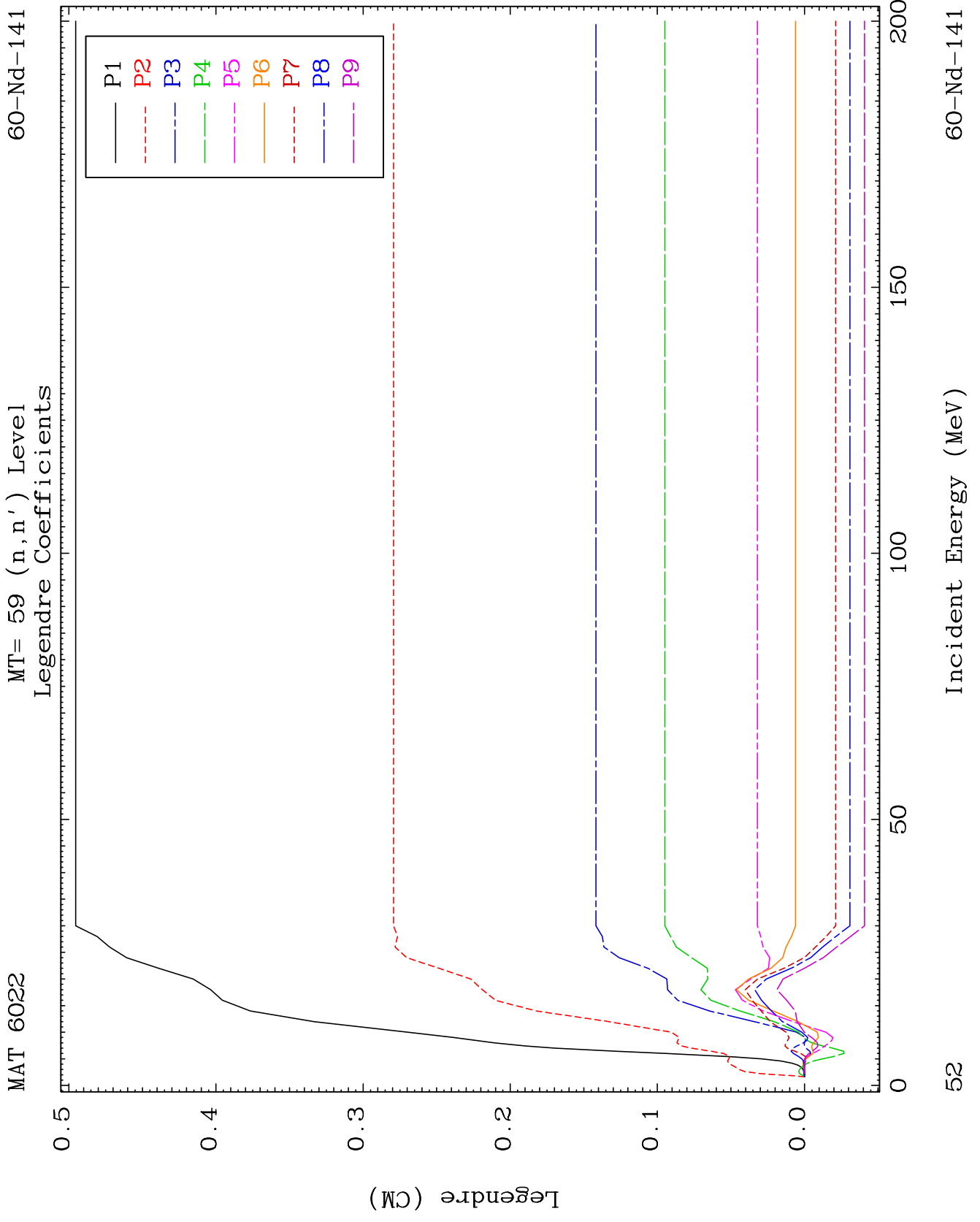
60-Nd-141

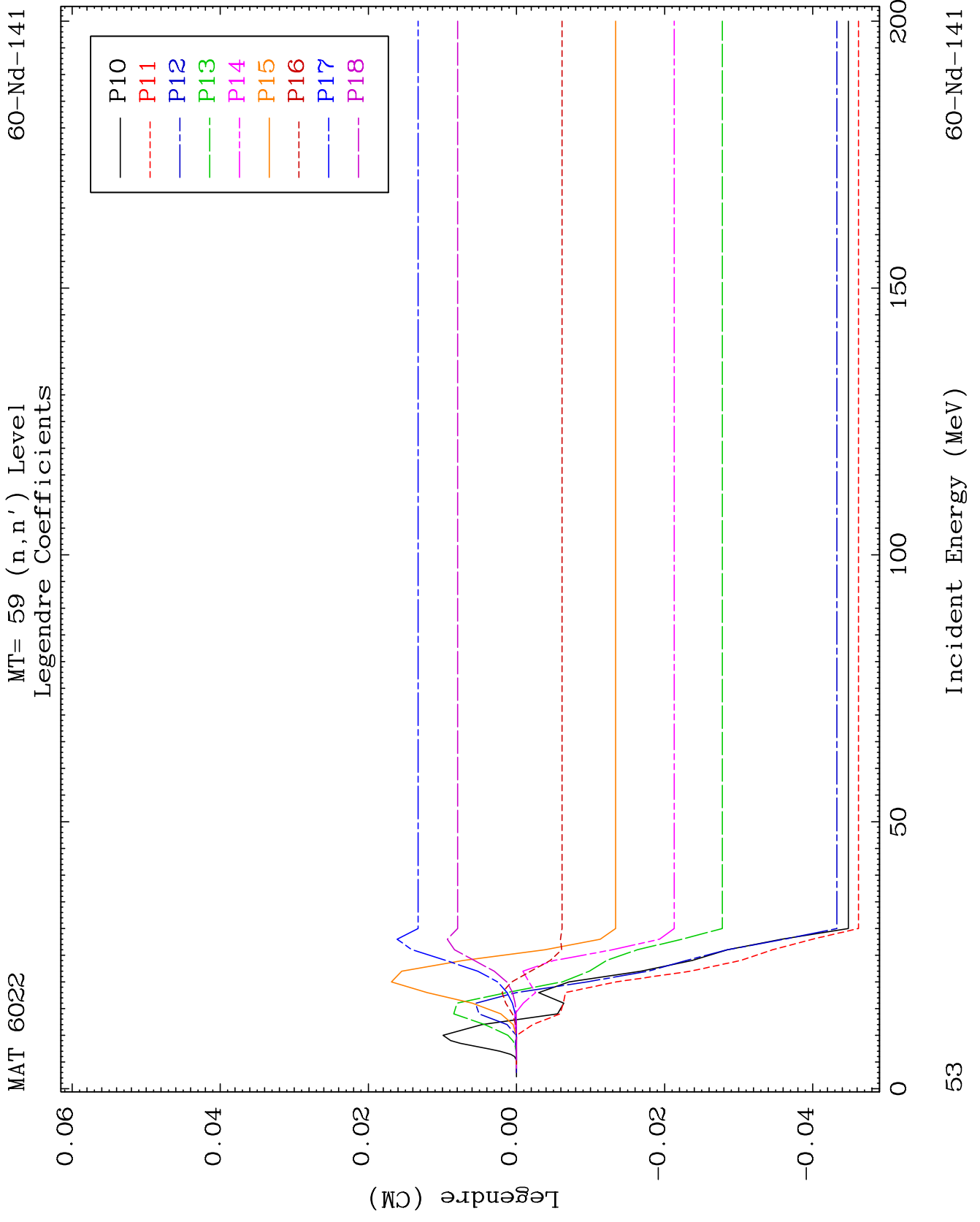


51

Incident Energy (MeV)

60-Nd-141

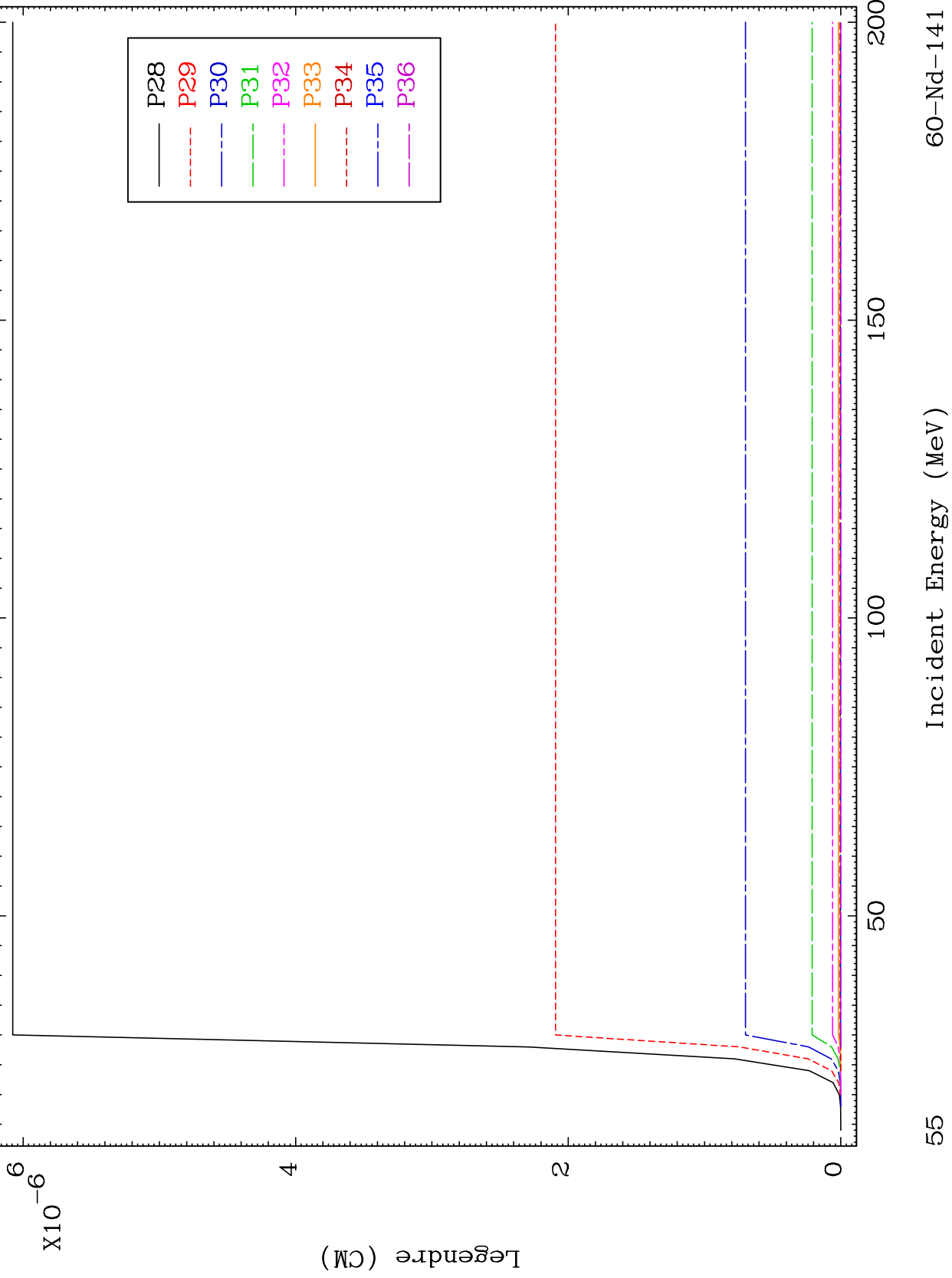


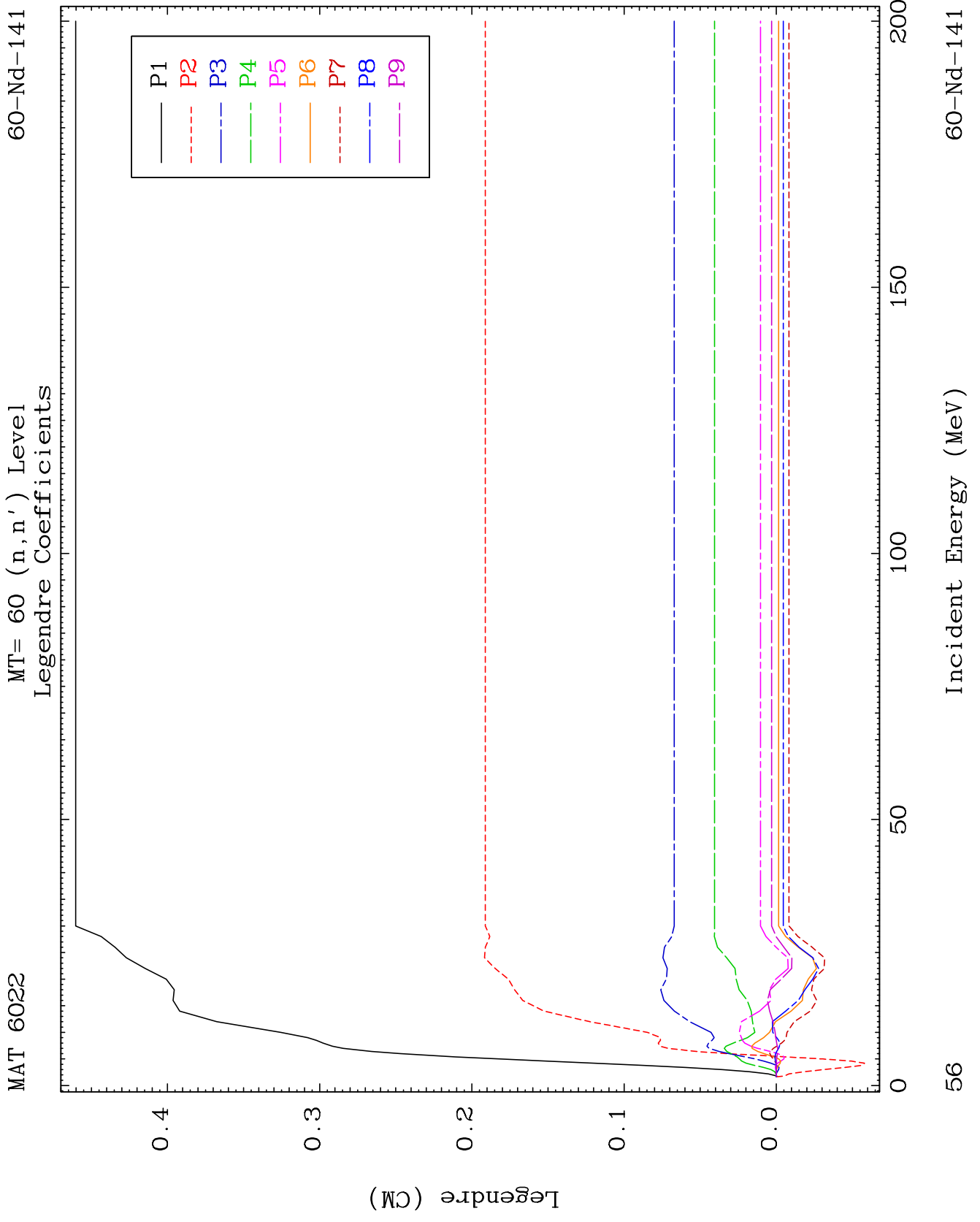


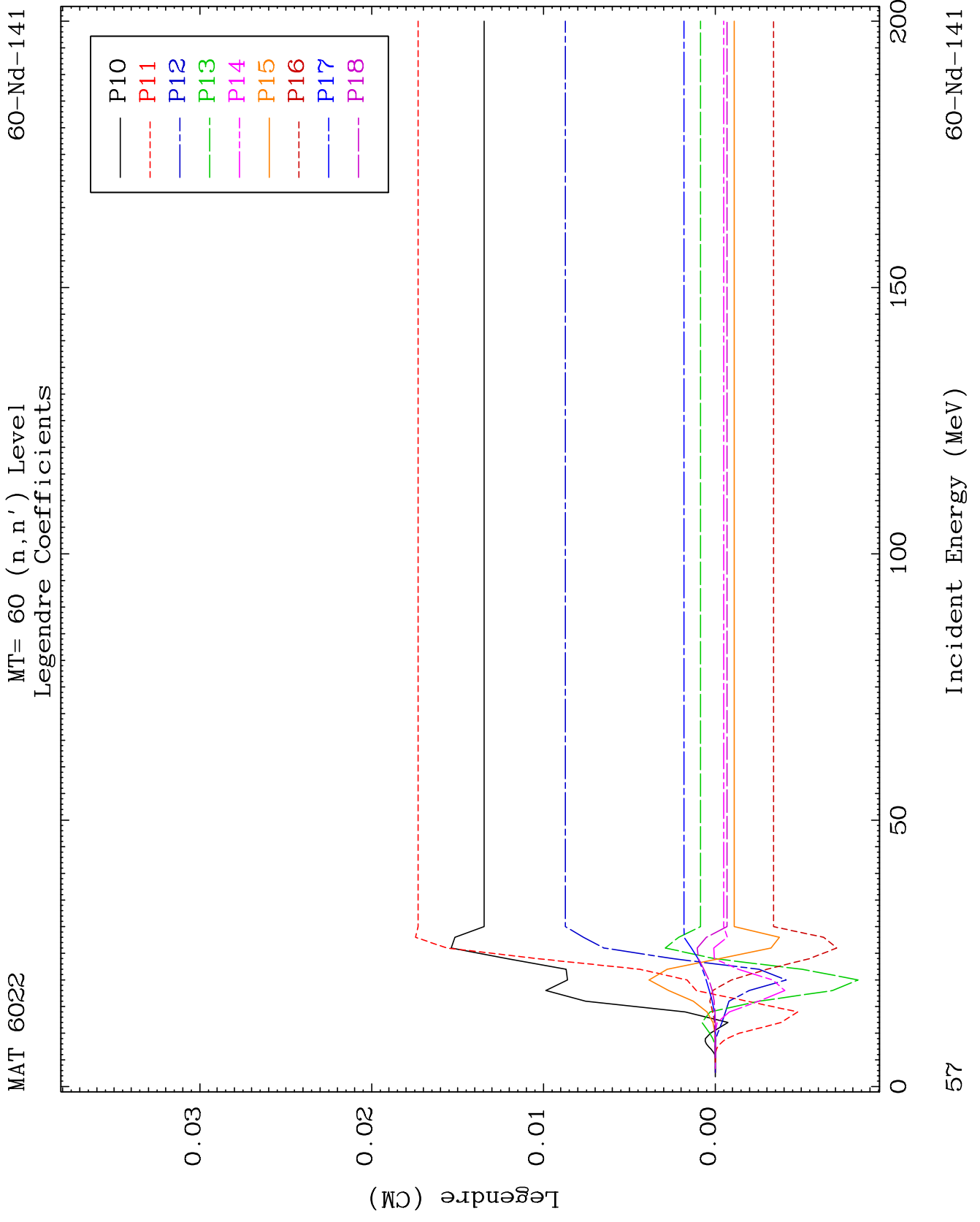
MAT 6022

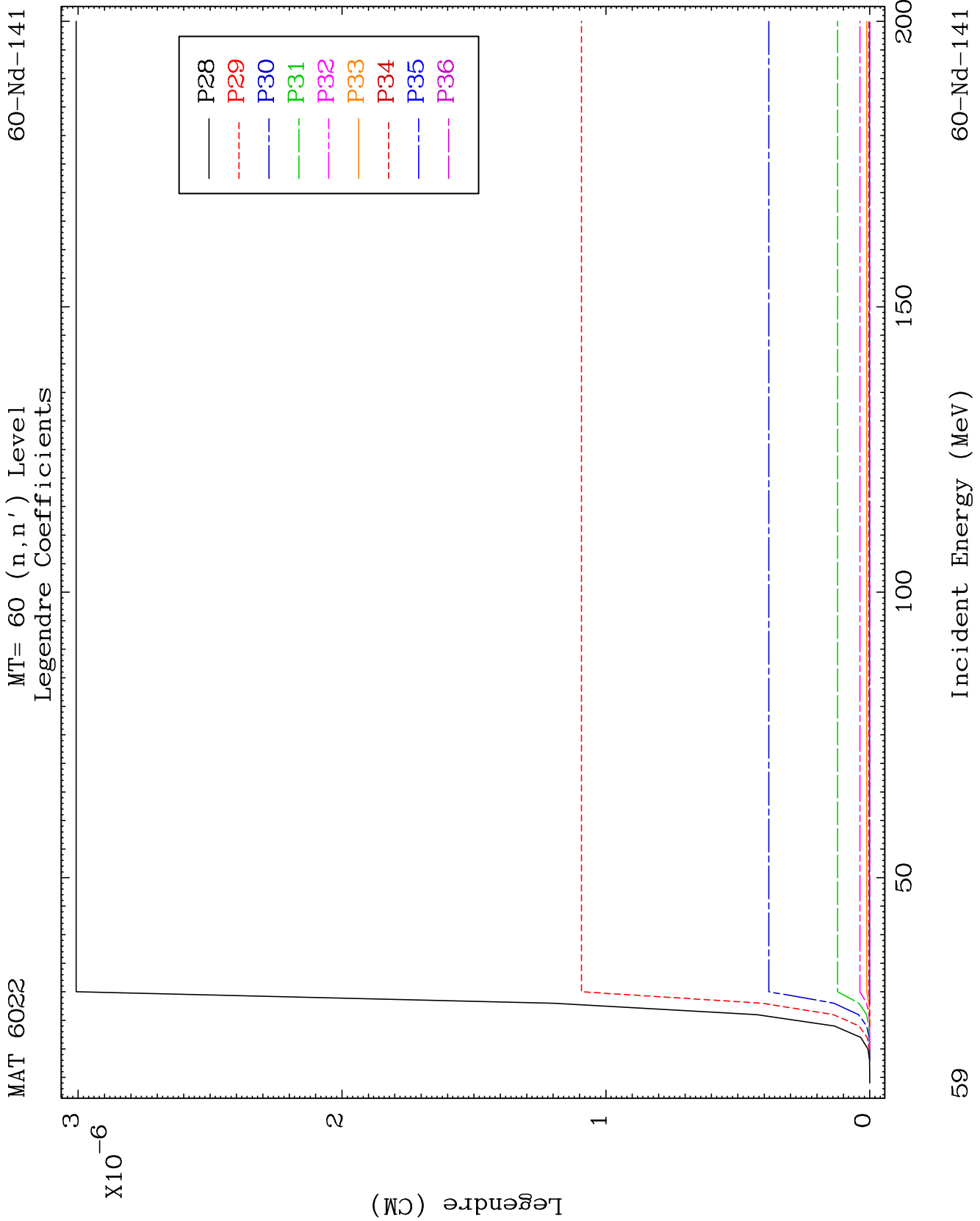
MT= 59 (n,n') Level
Legendre Coefficients

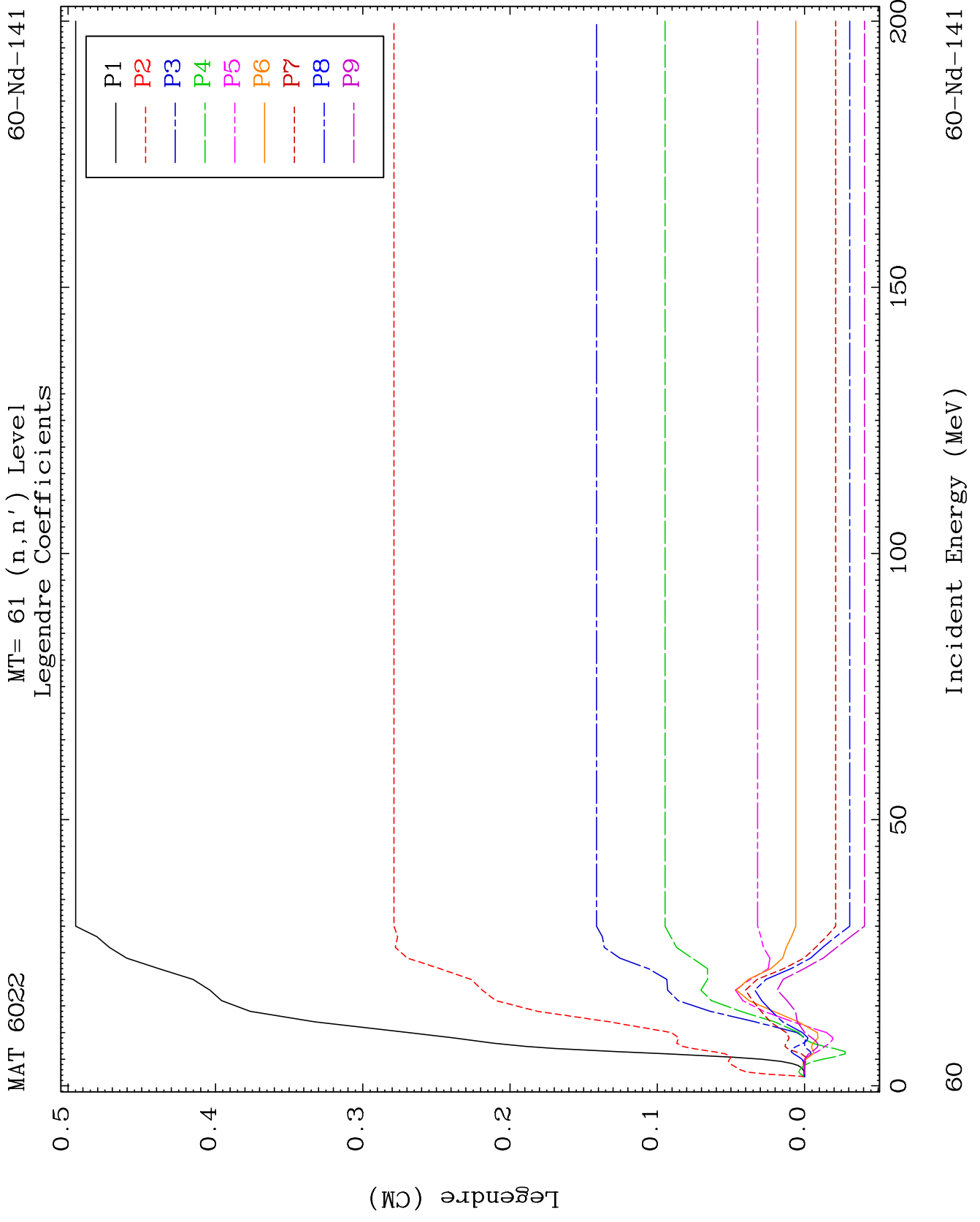
60-Nd-141

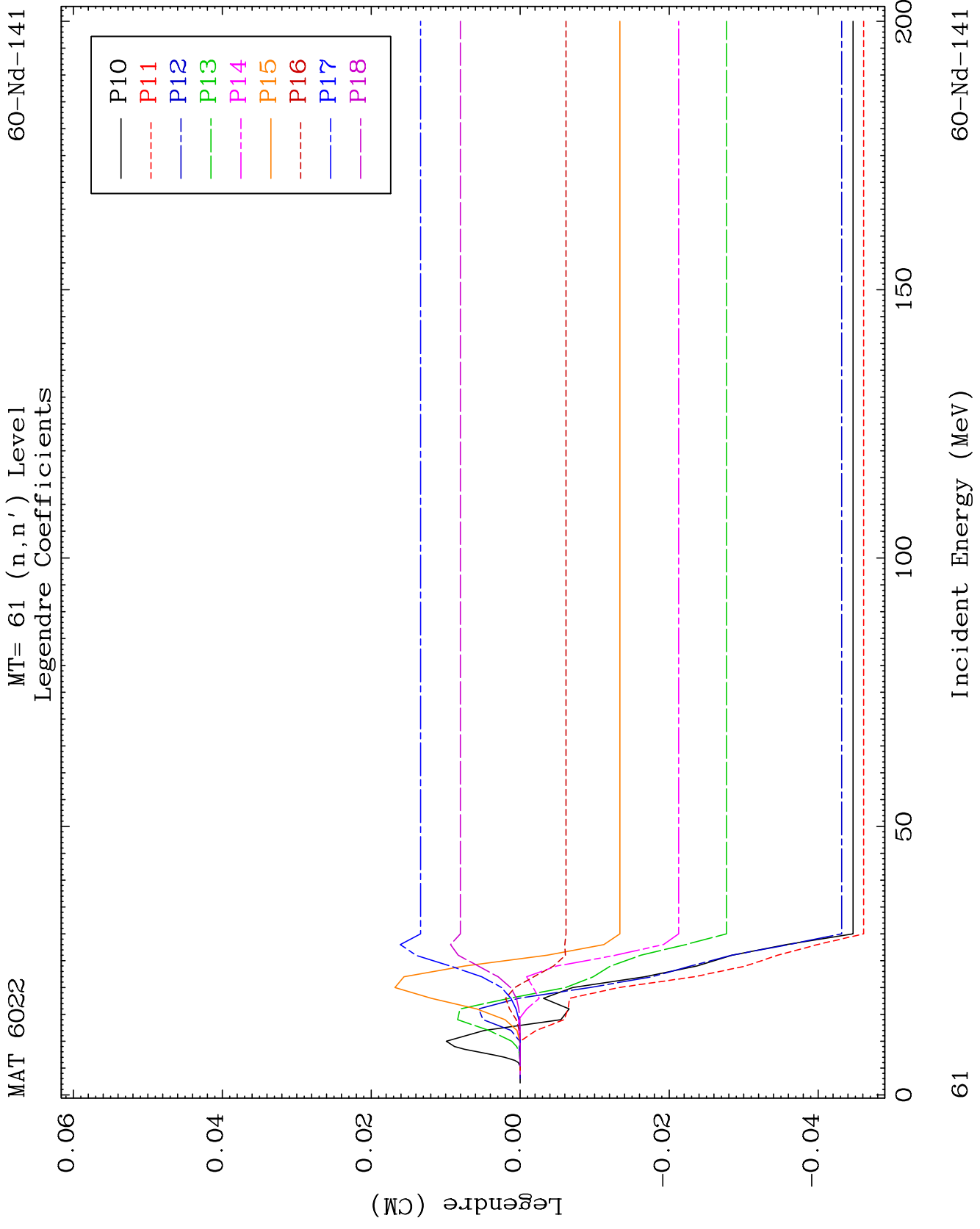








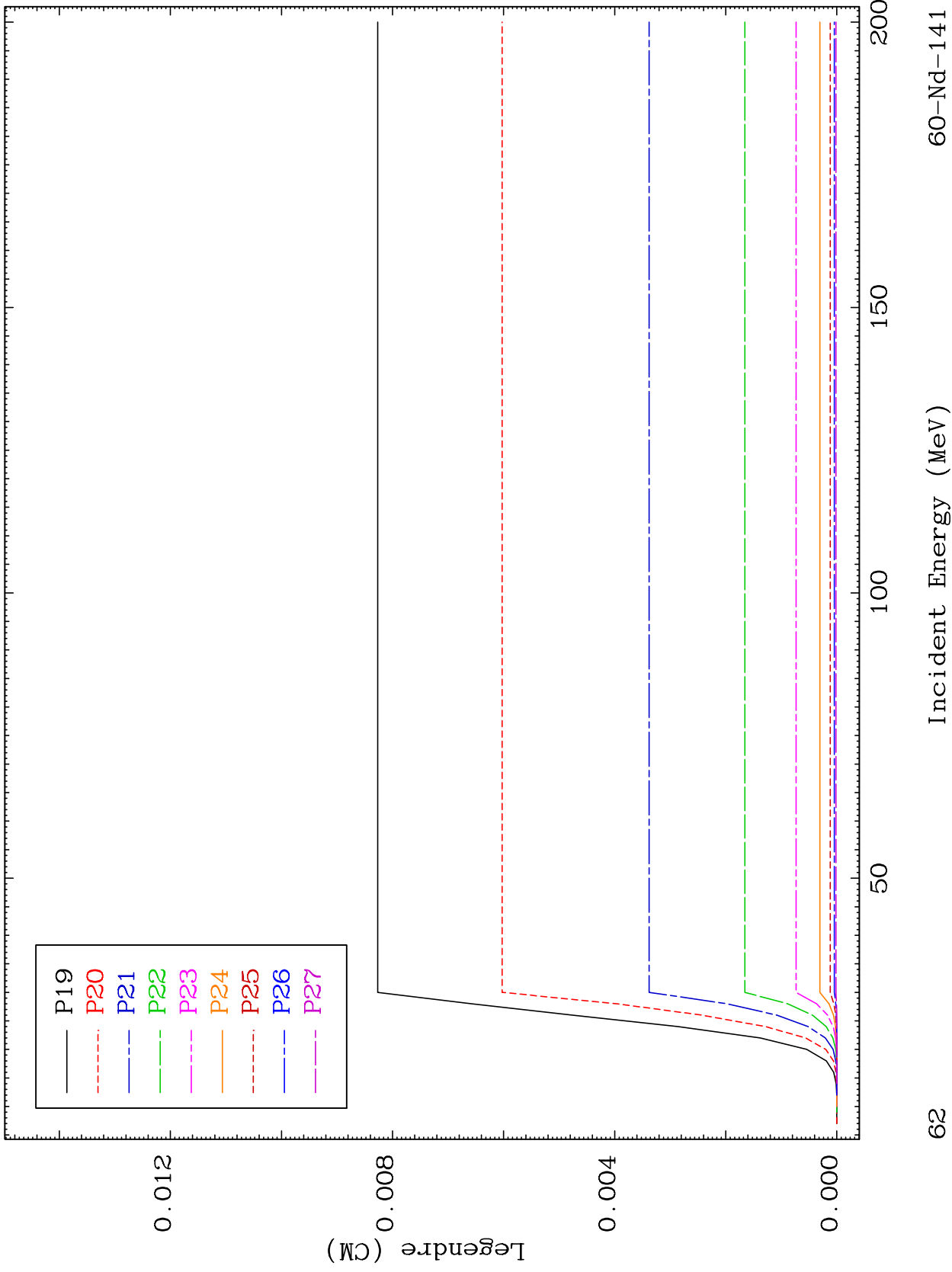




MAT 6022

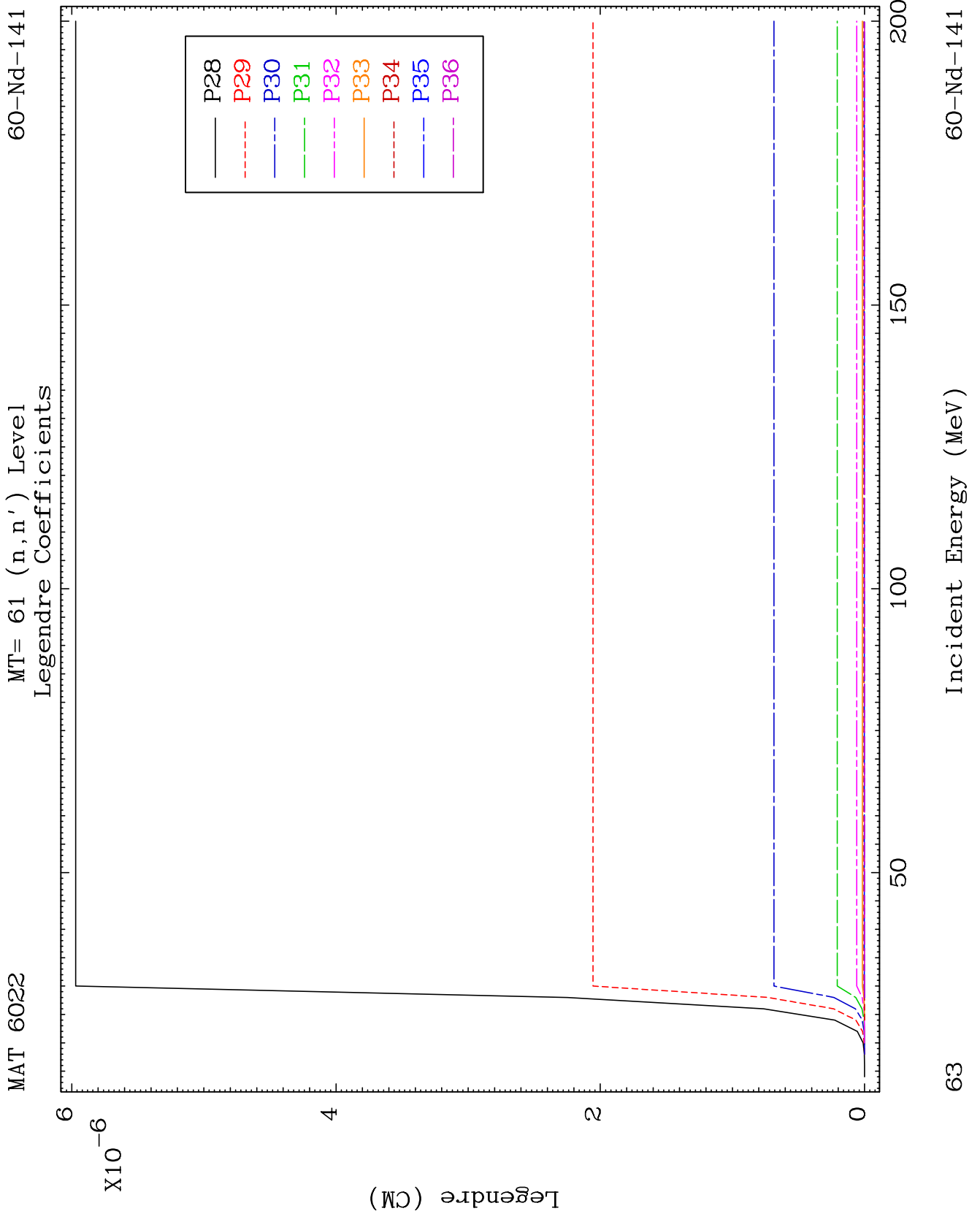
MT= 61 (n,n') Level
Legendre Coefficients

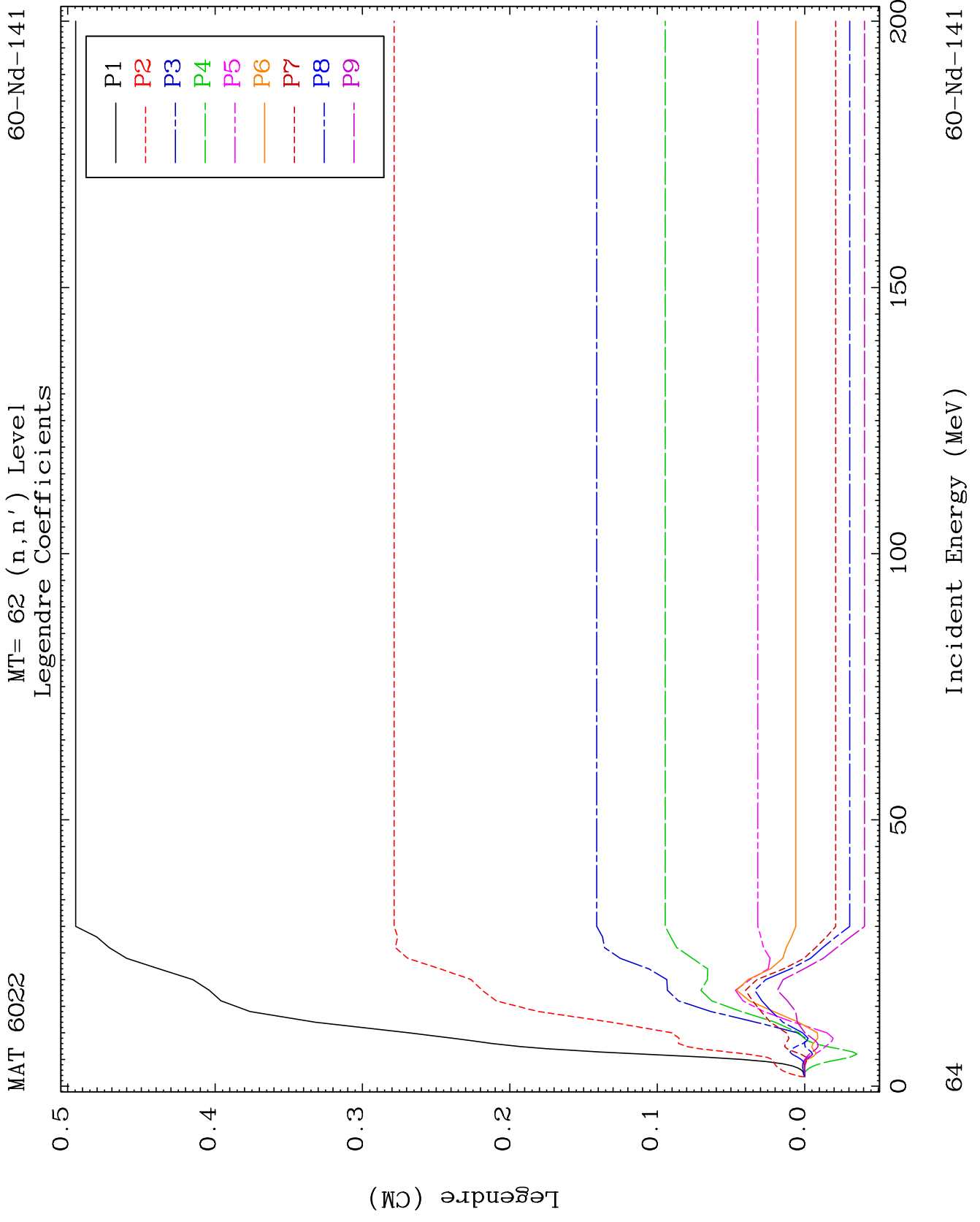
60-Nd-141

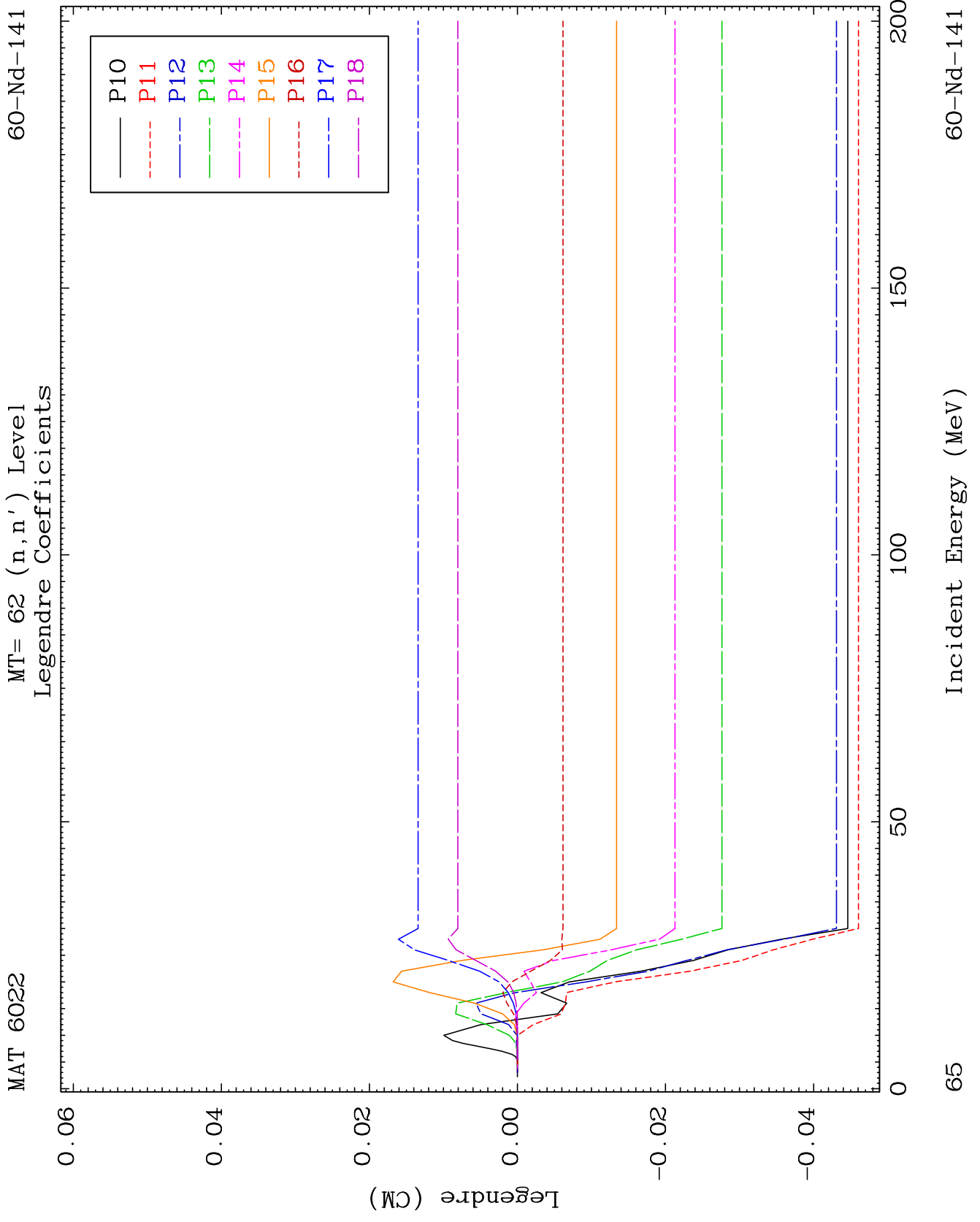


62

60-Nd-141



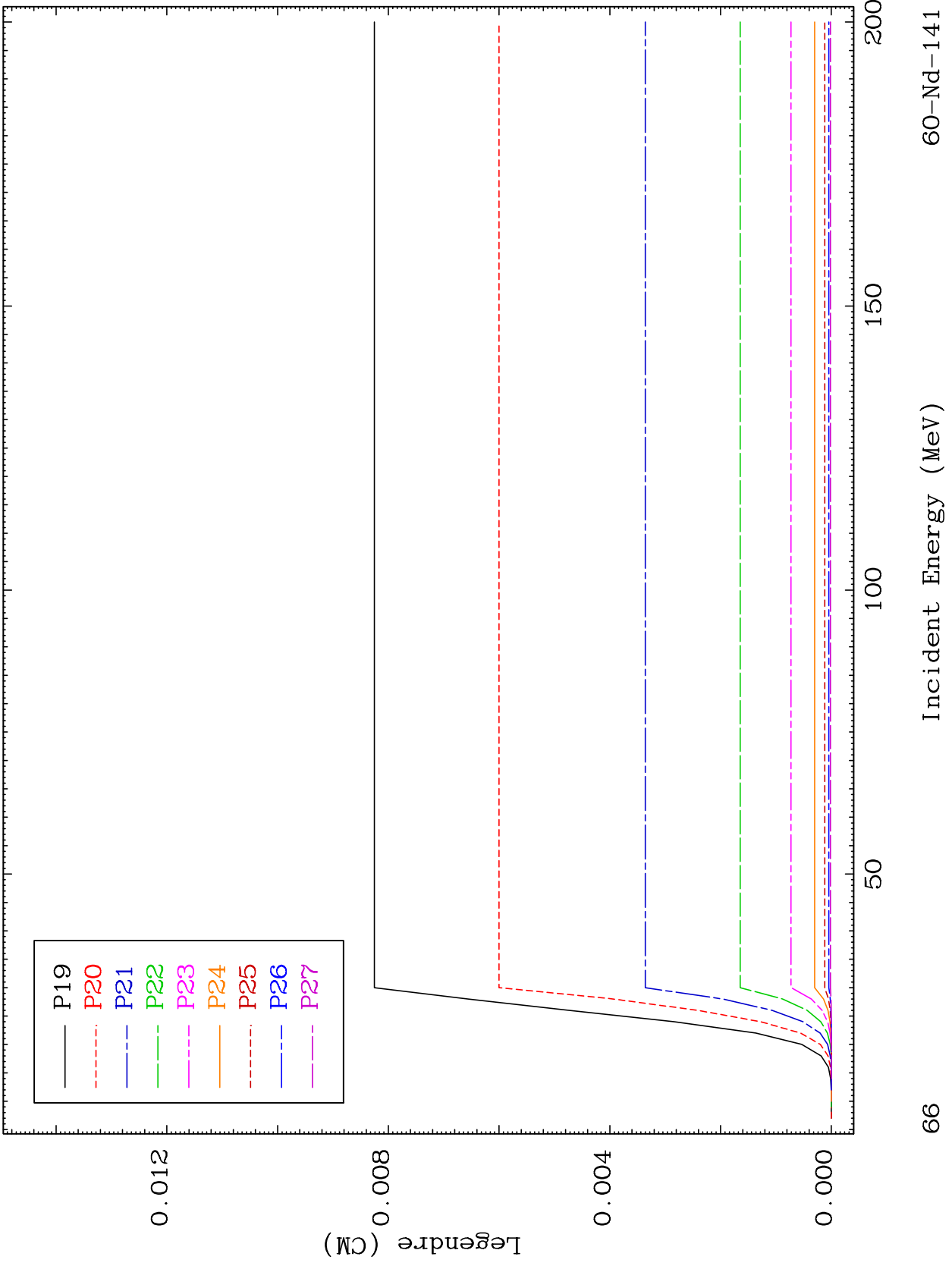




MAT 6022

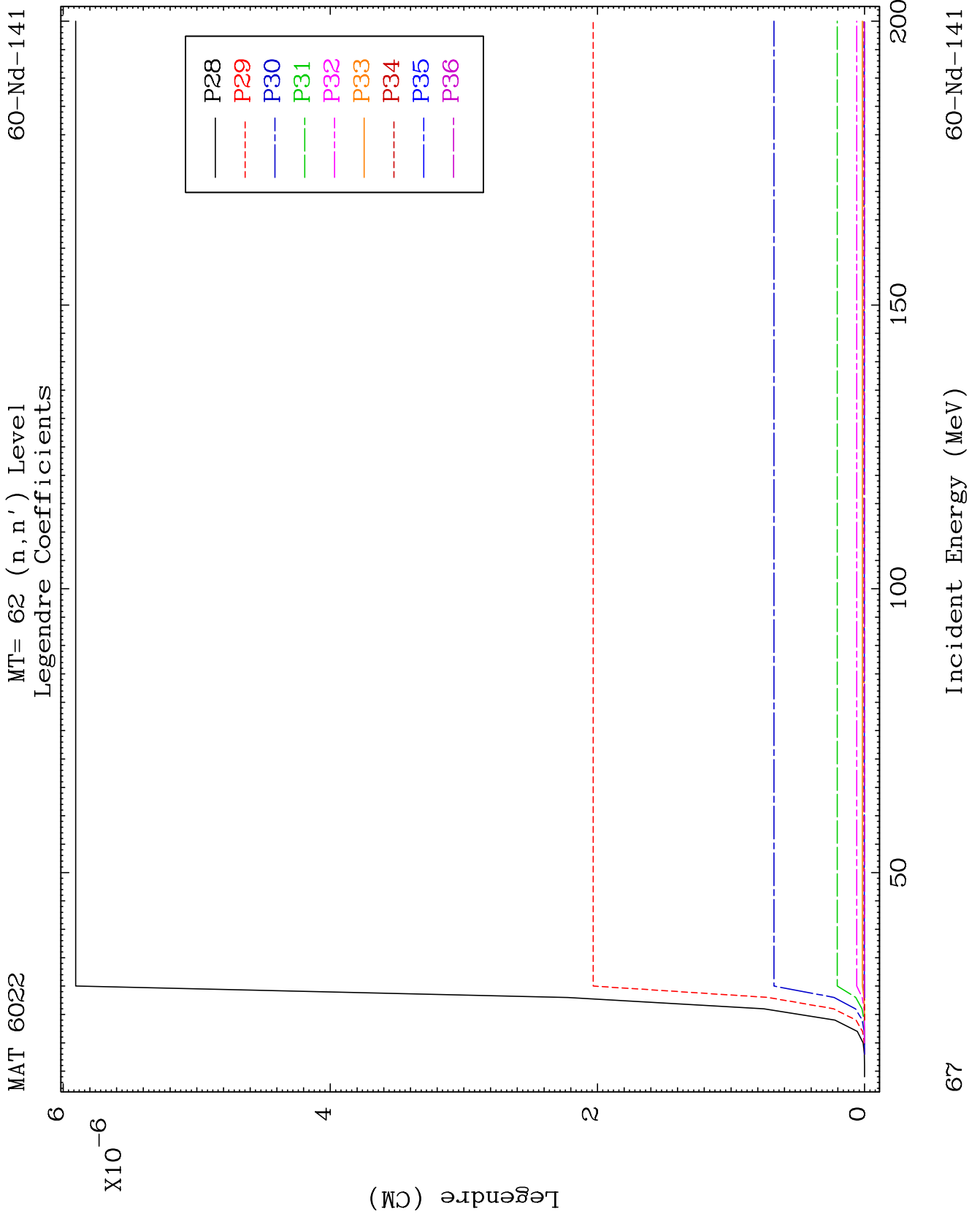
MT= 62 (n,n') Level
Legendre Coefficients

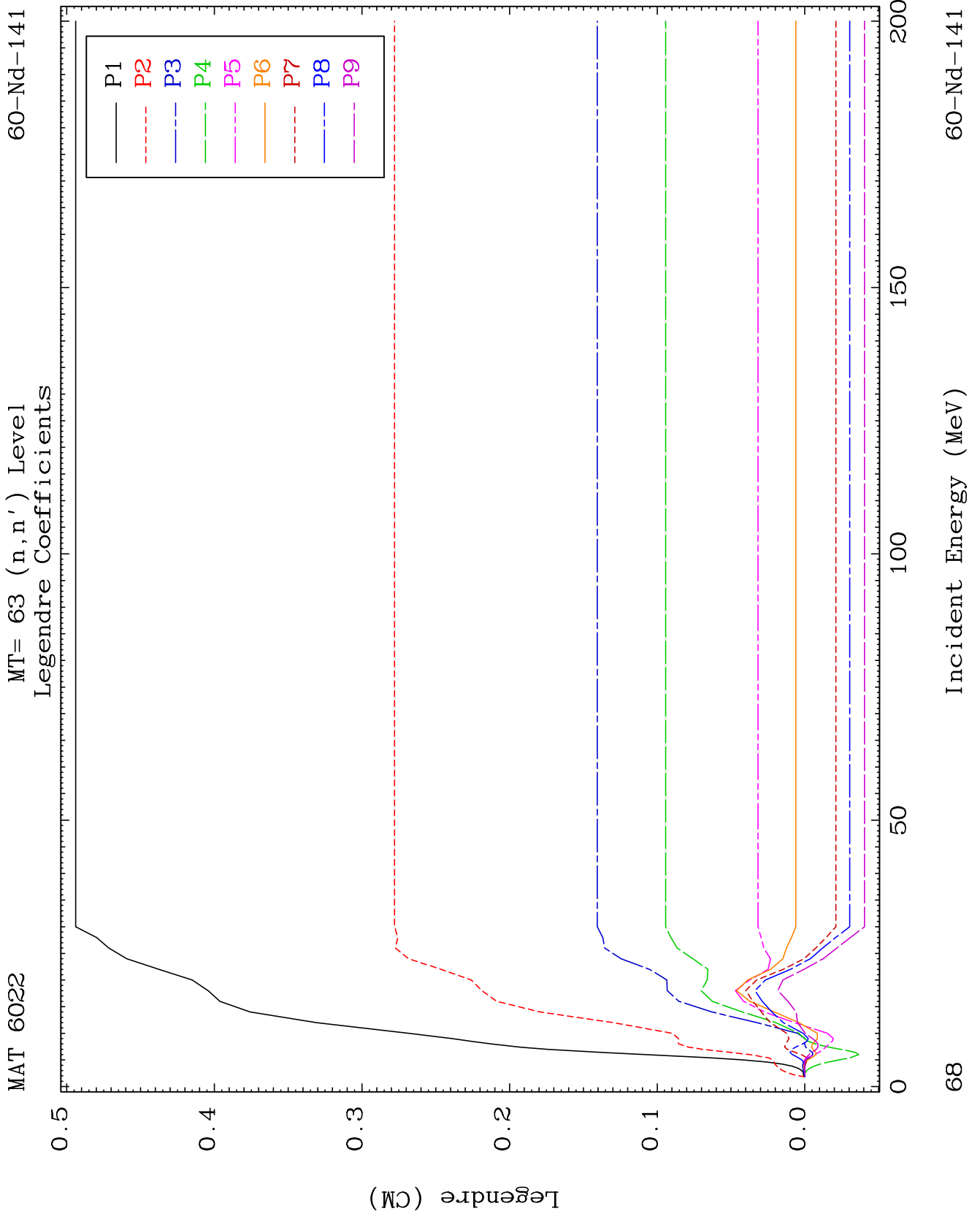
60-Nd-141



66

60-Nd-141

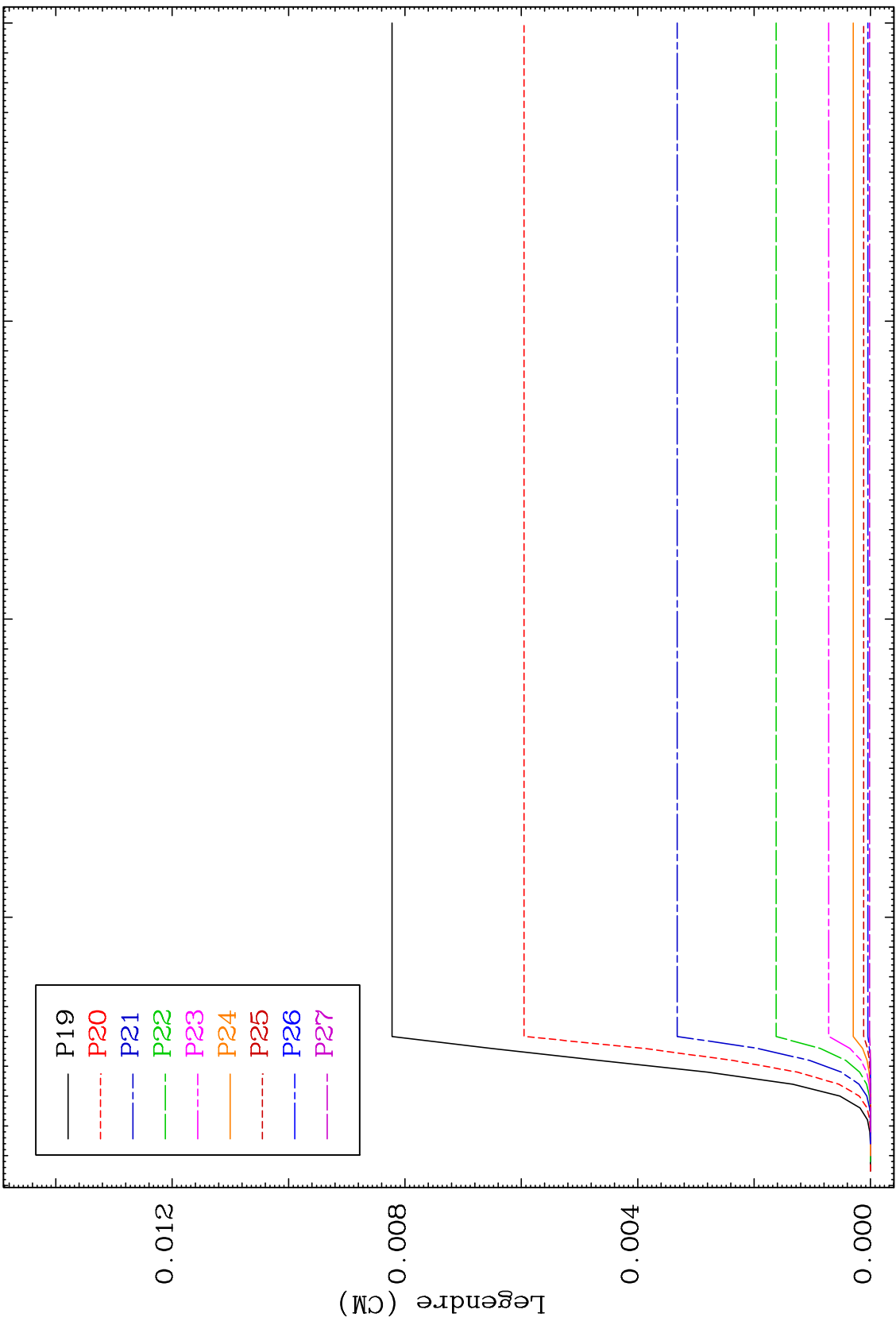




MAT 6022

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

60-Nd-141



70

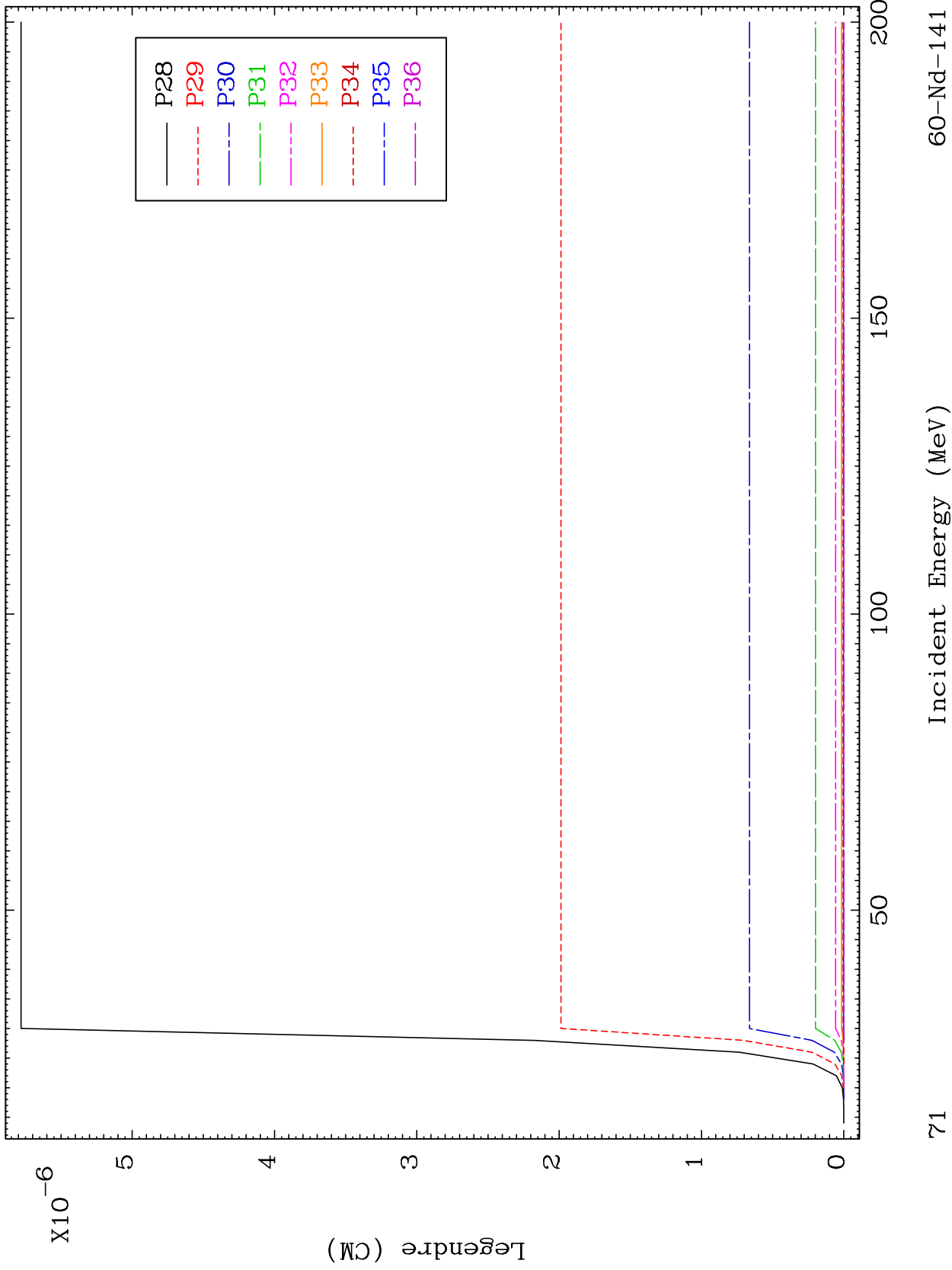
Incident Energy (MeV)

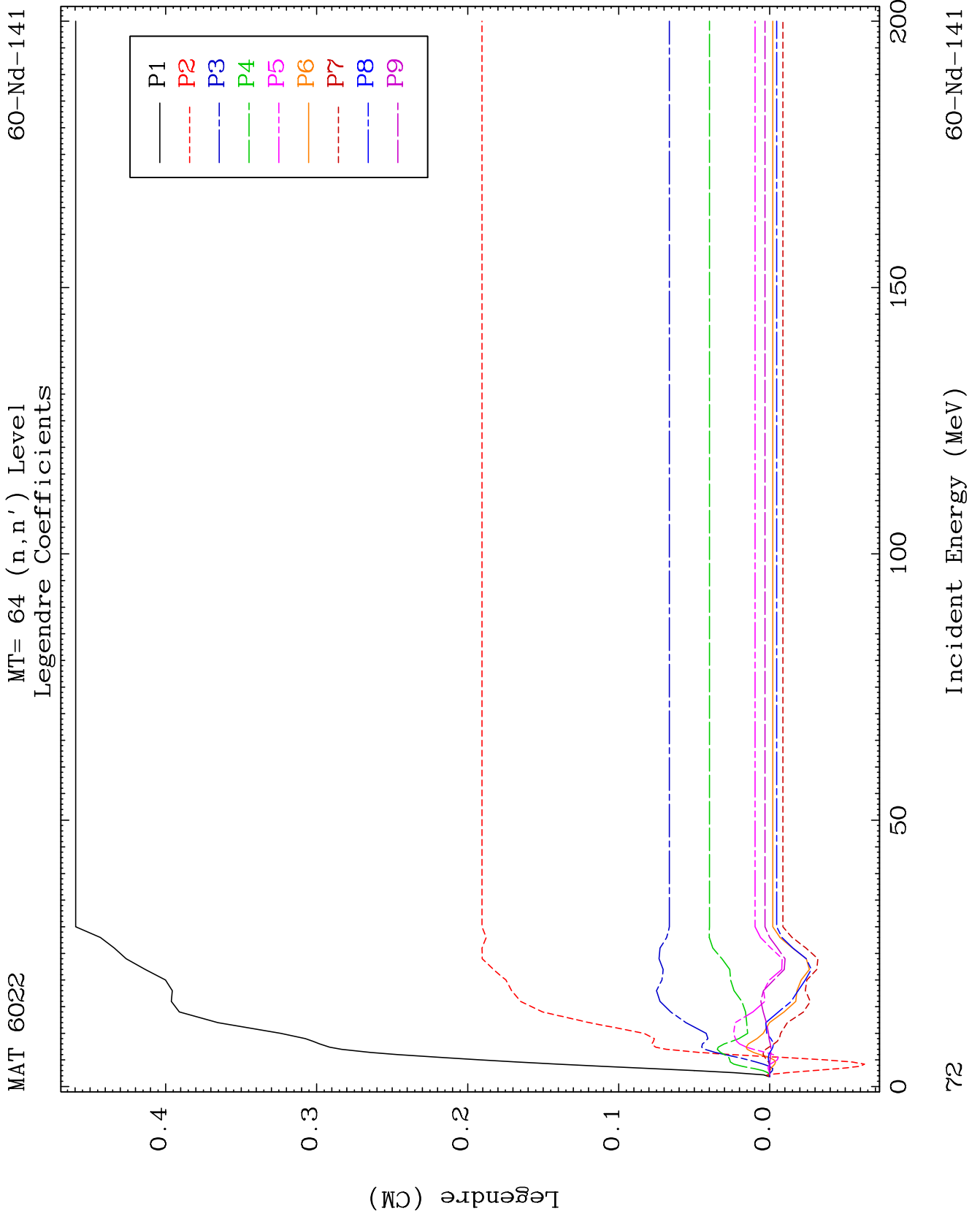
60-Nd-141

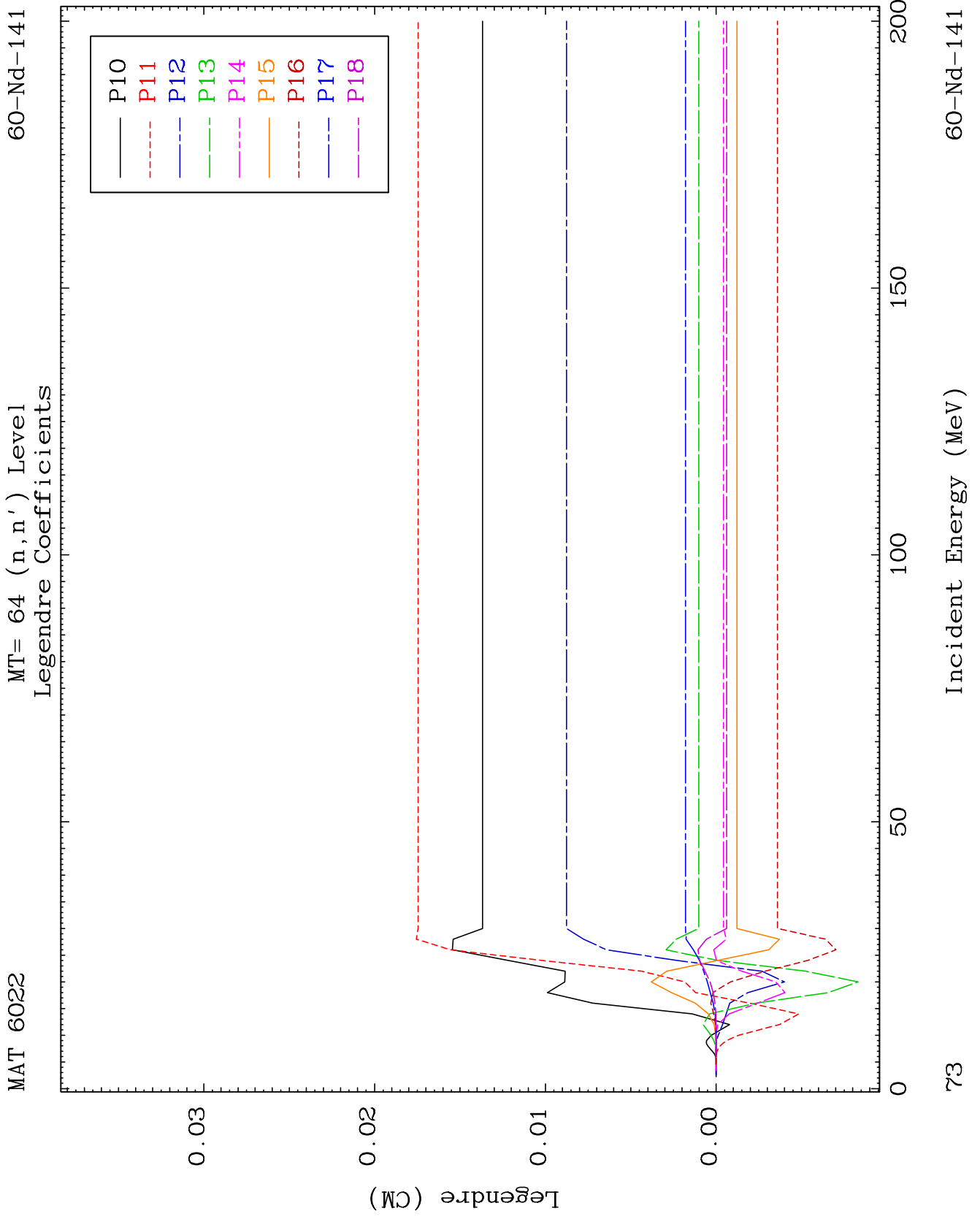
MAT 6022

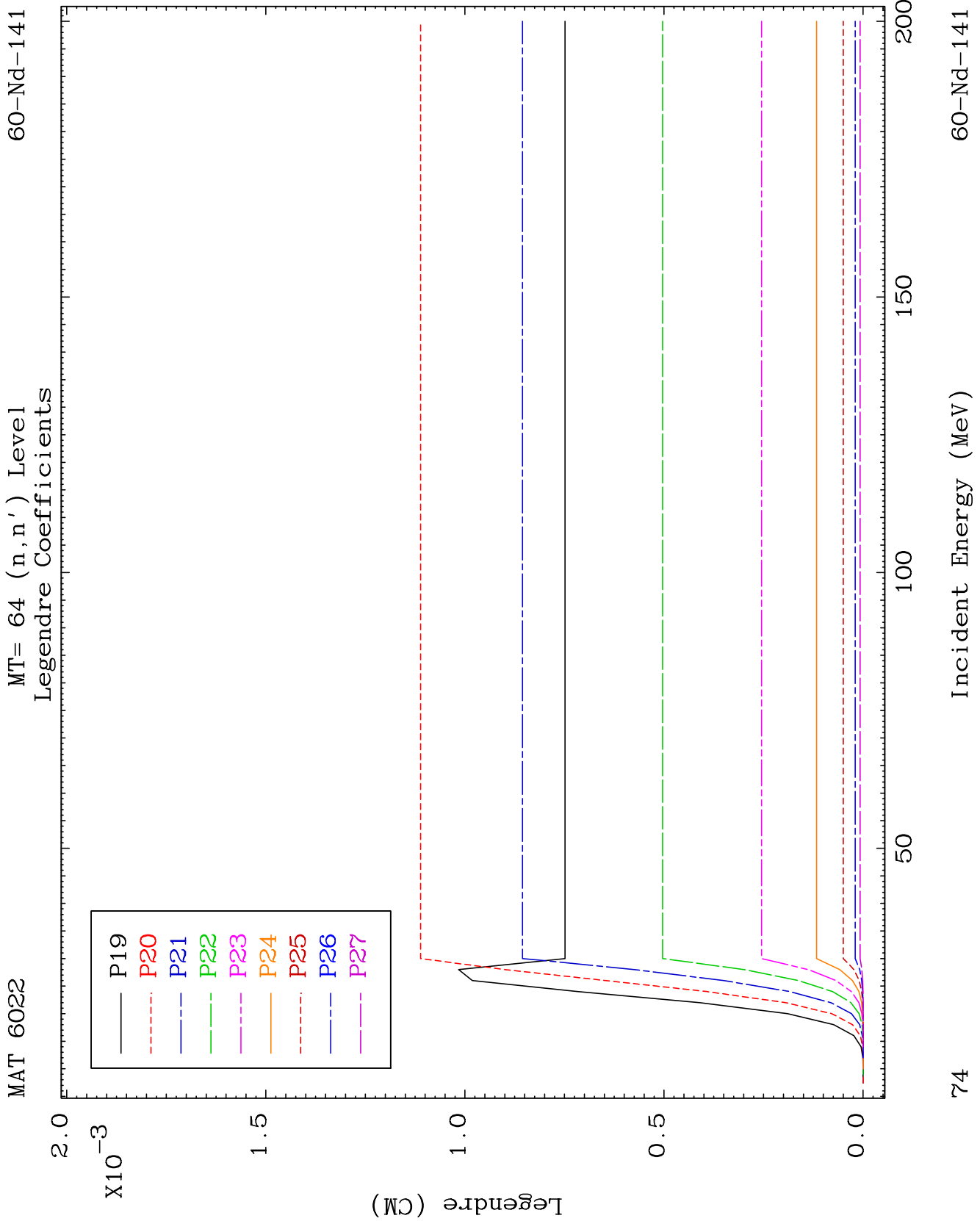
MT= 63 (n,n') Level
Legendre Coefficients

60-Nd-141





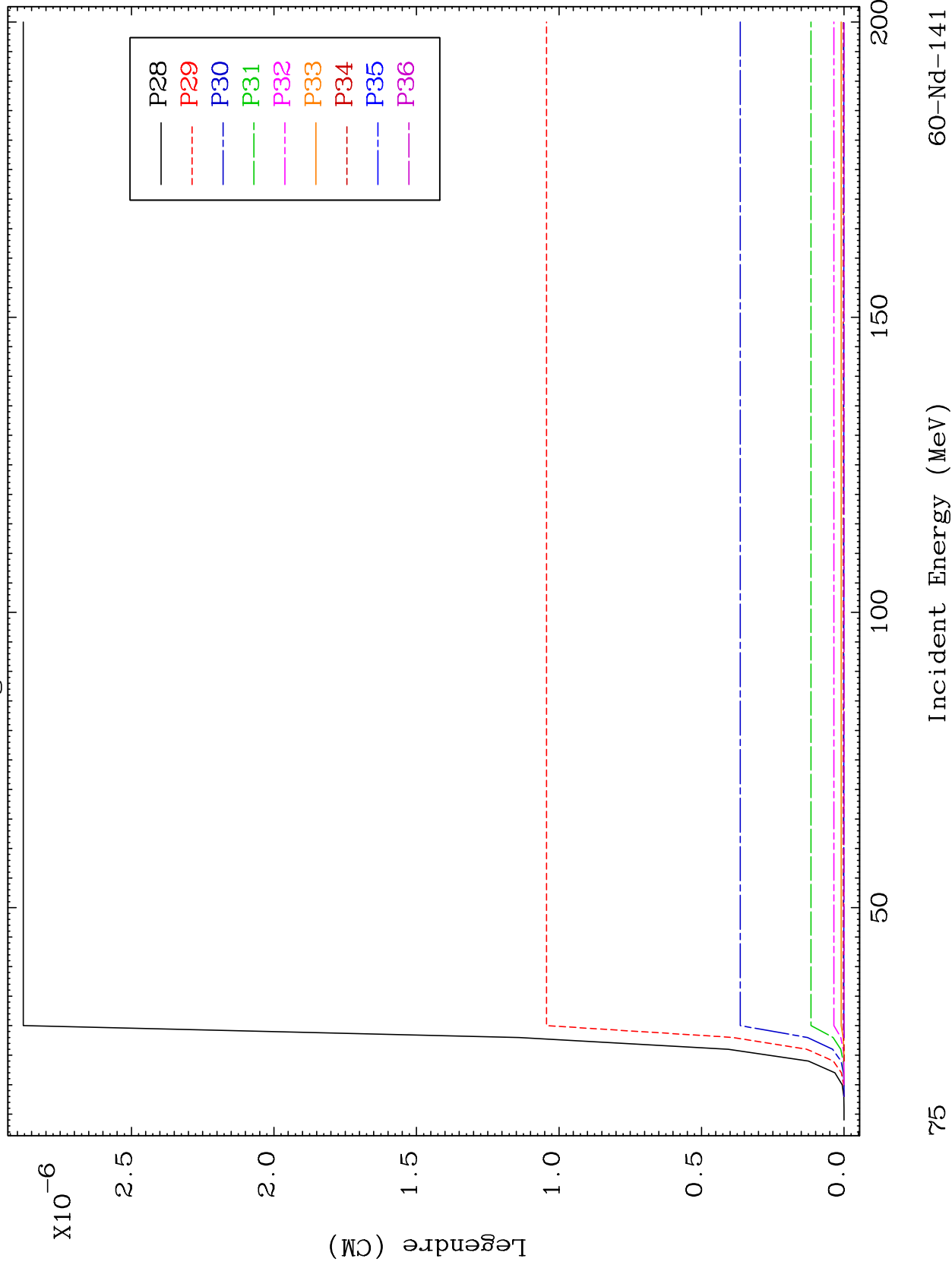




MAT 6022

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

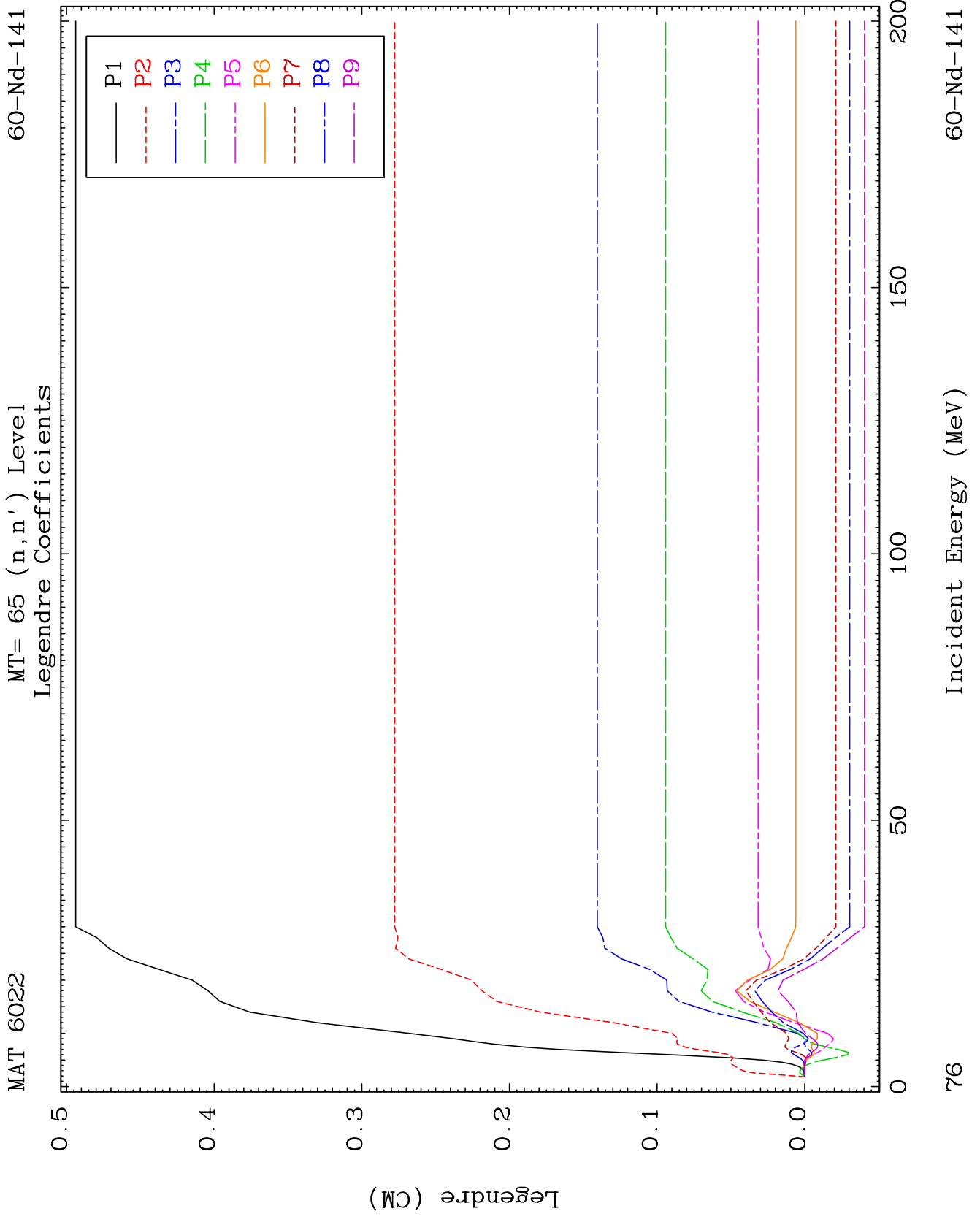
60-Nd-141



75

Incident Energy (MeV)

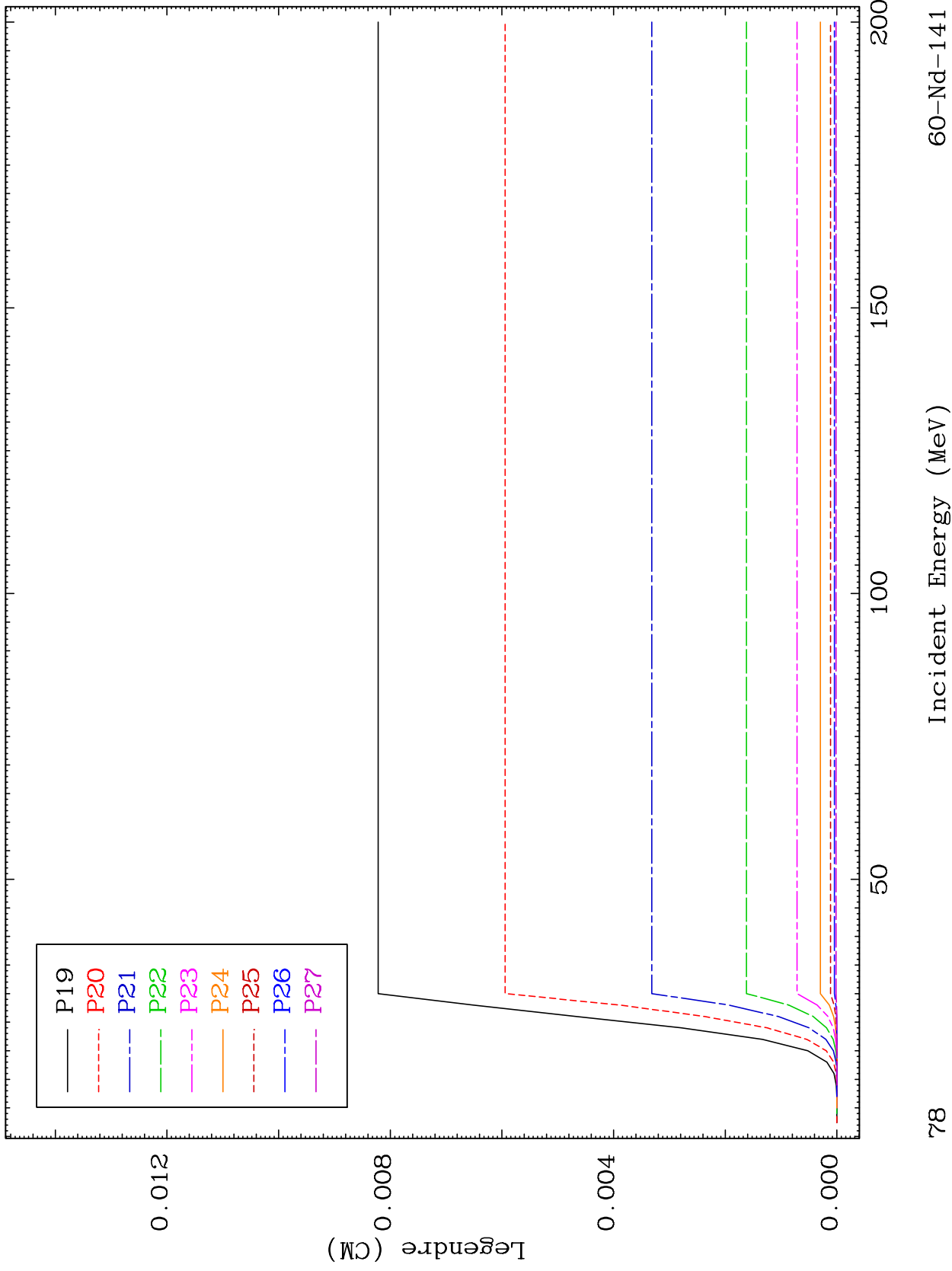
60-Nd-141



MAT 6022

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

60-Nd-141



78

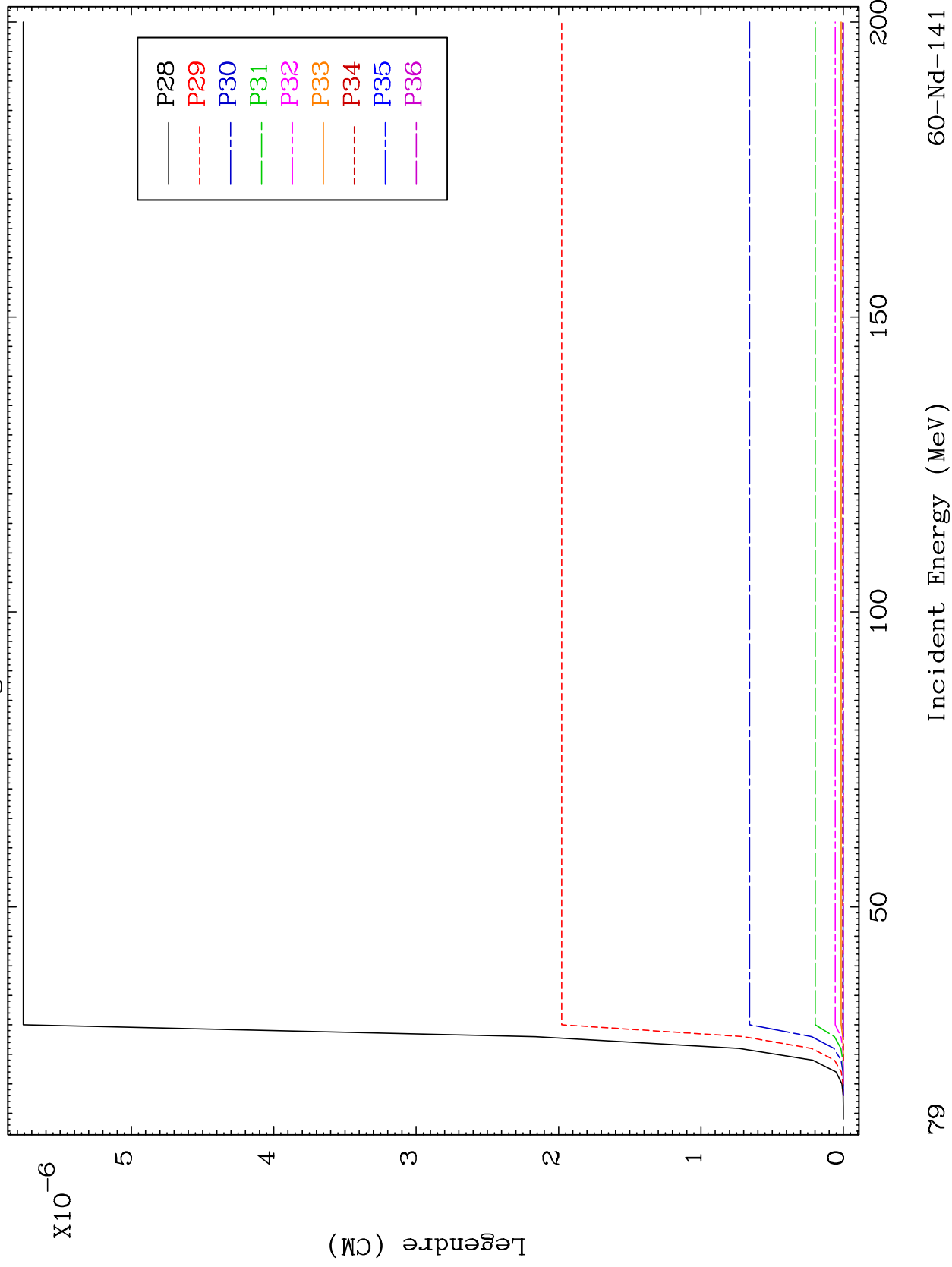
Incident Energy (MeV)

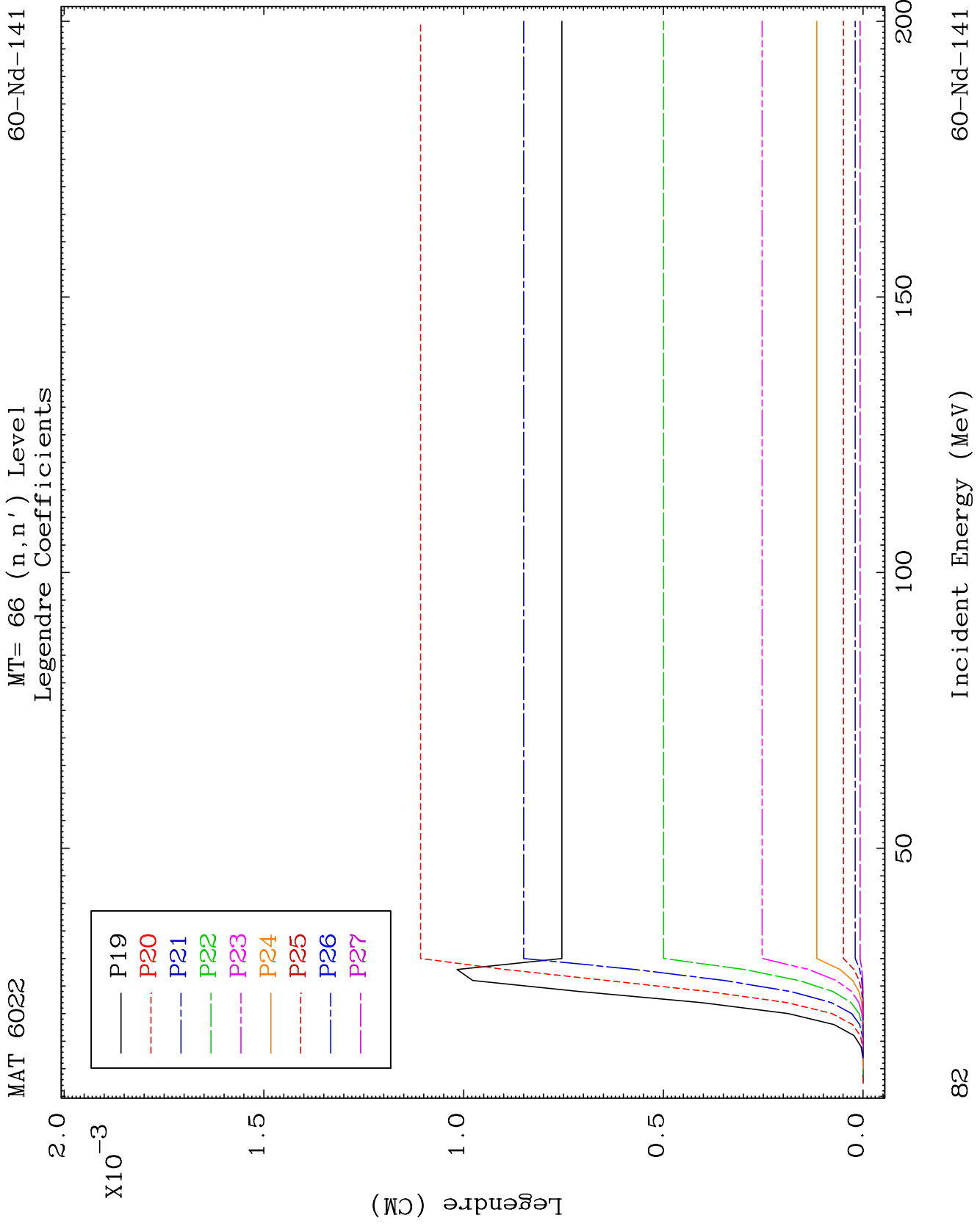
60-Nd-141

MAT 6022

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

60-Nd-141

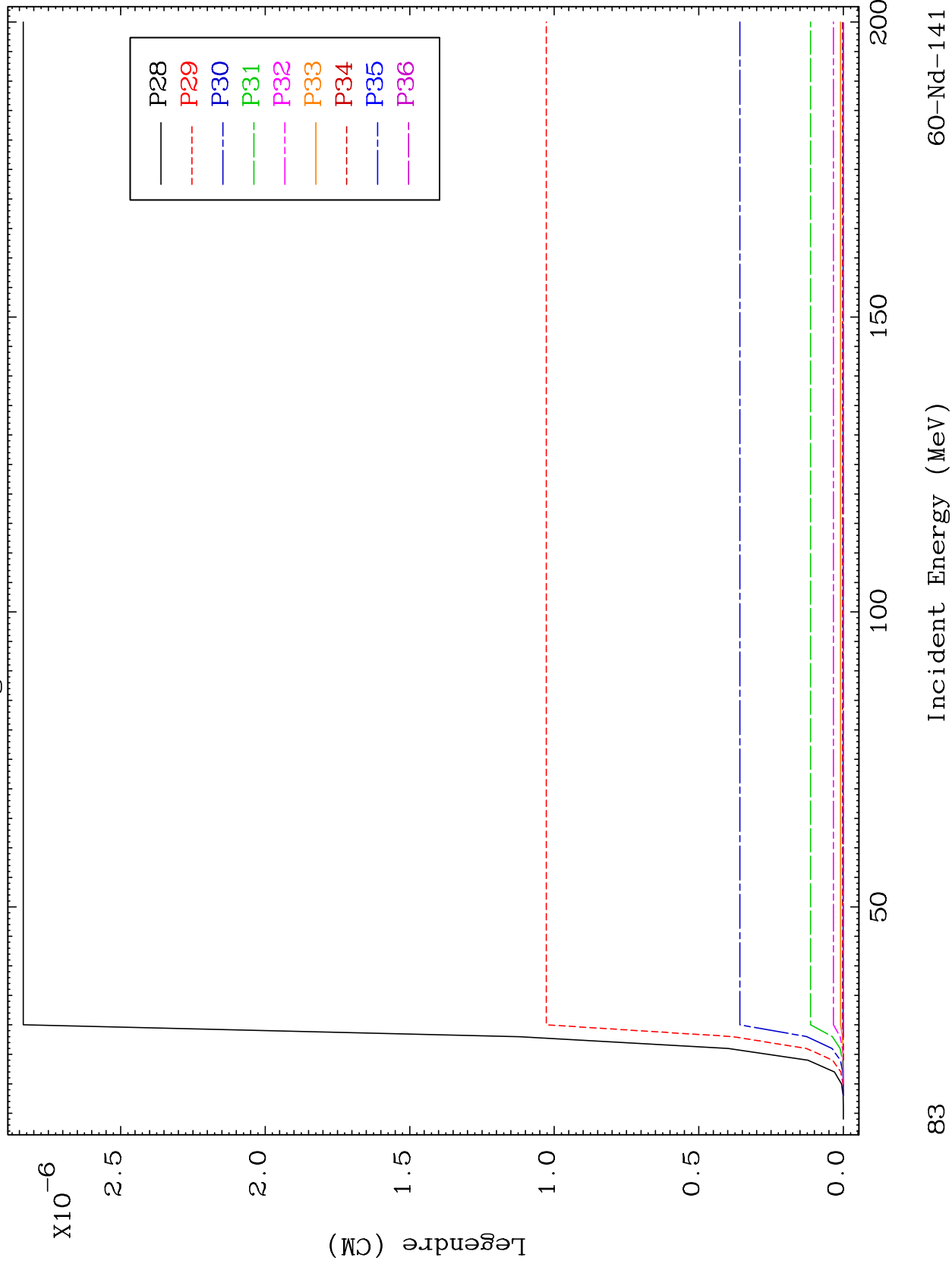


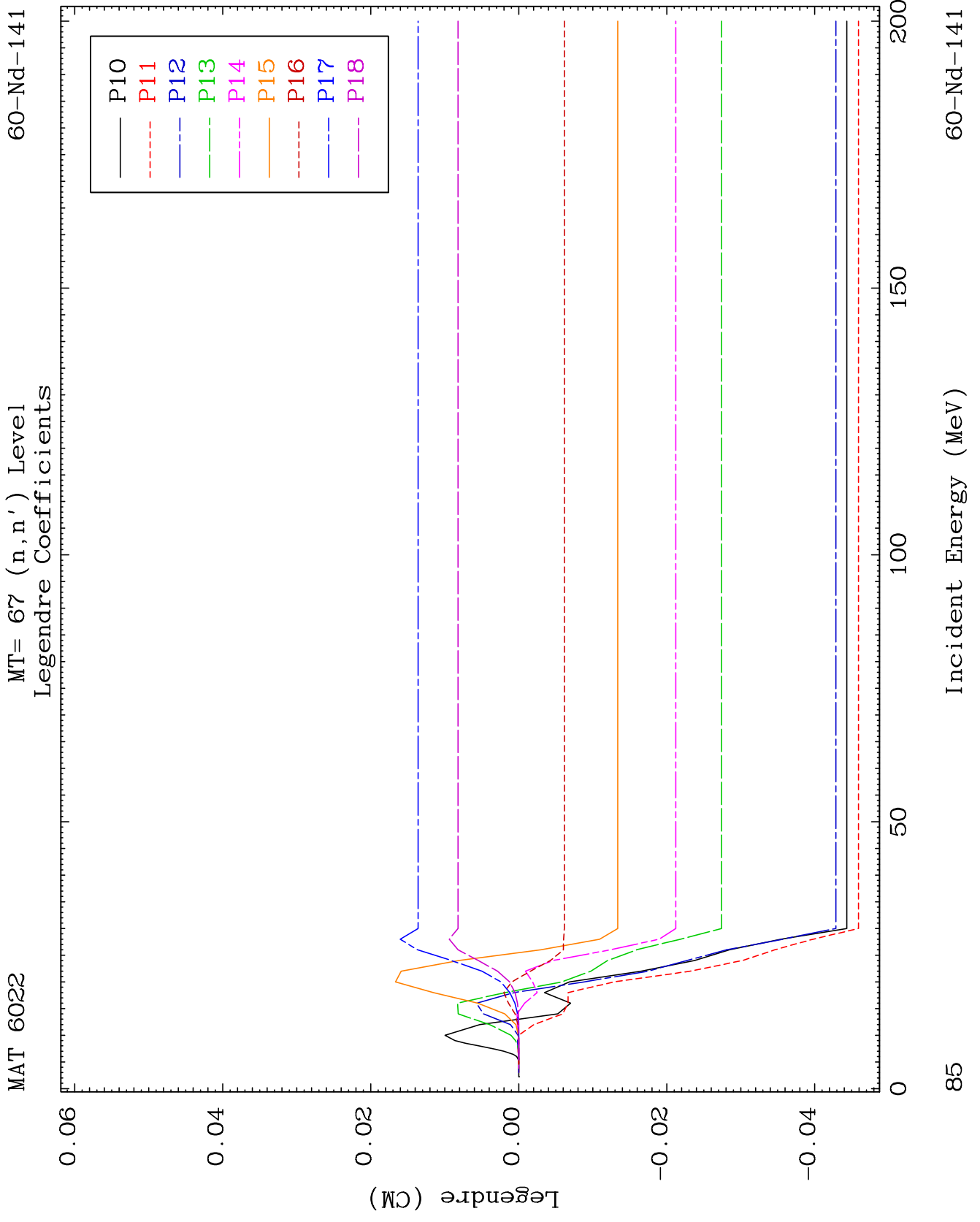


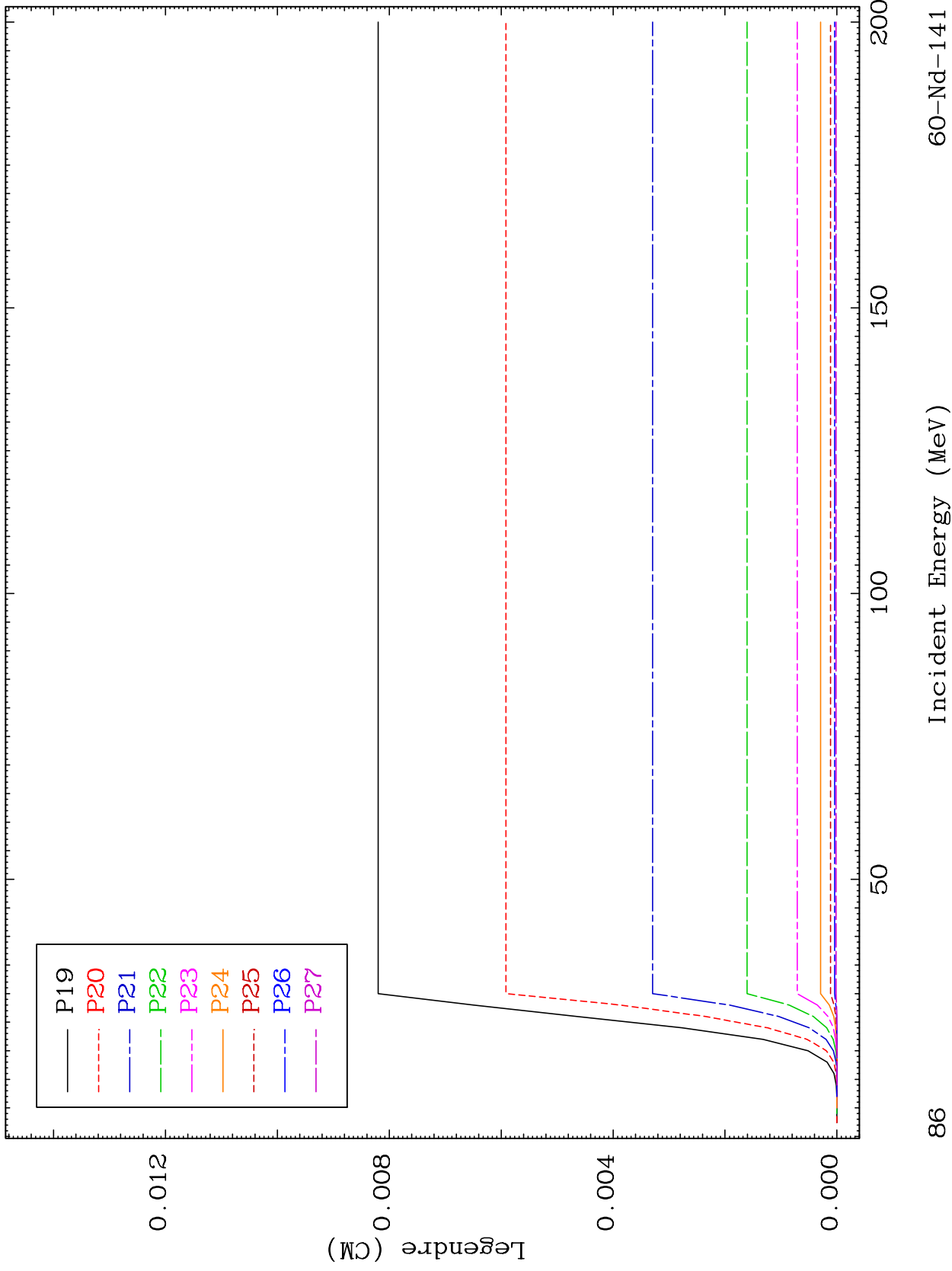
MAT 6022

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

60-Nd-141



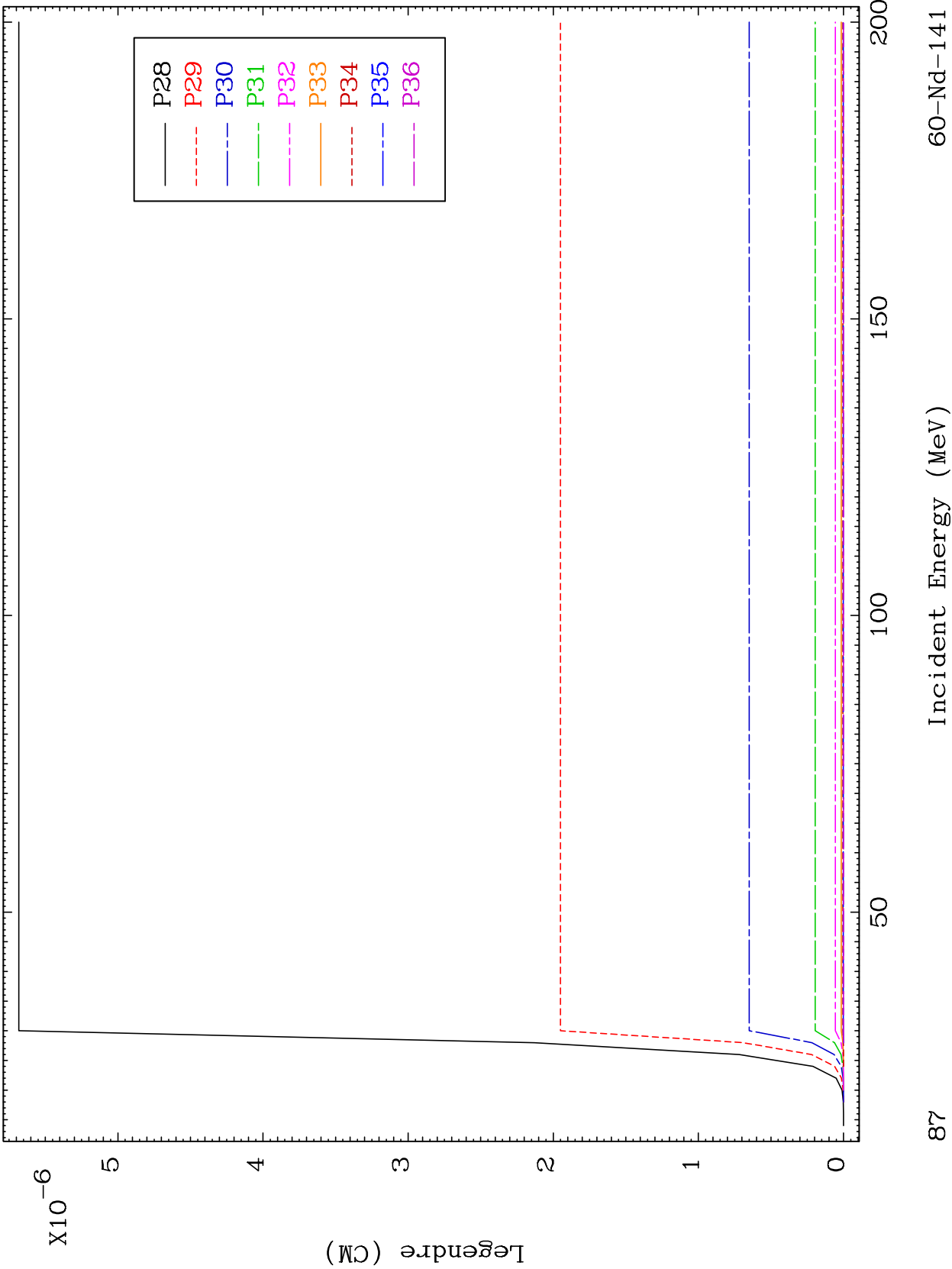




MAT 6022

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

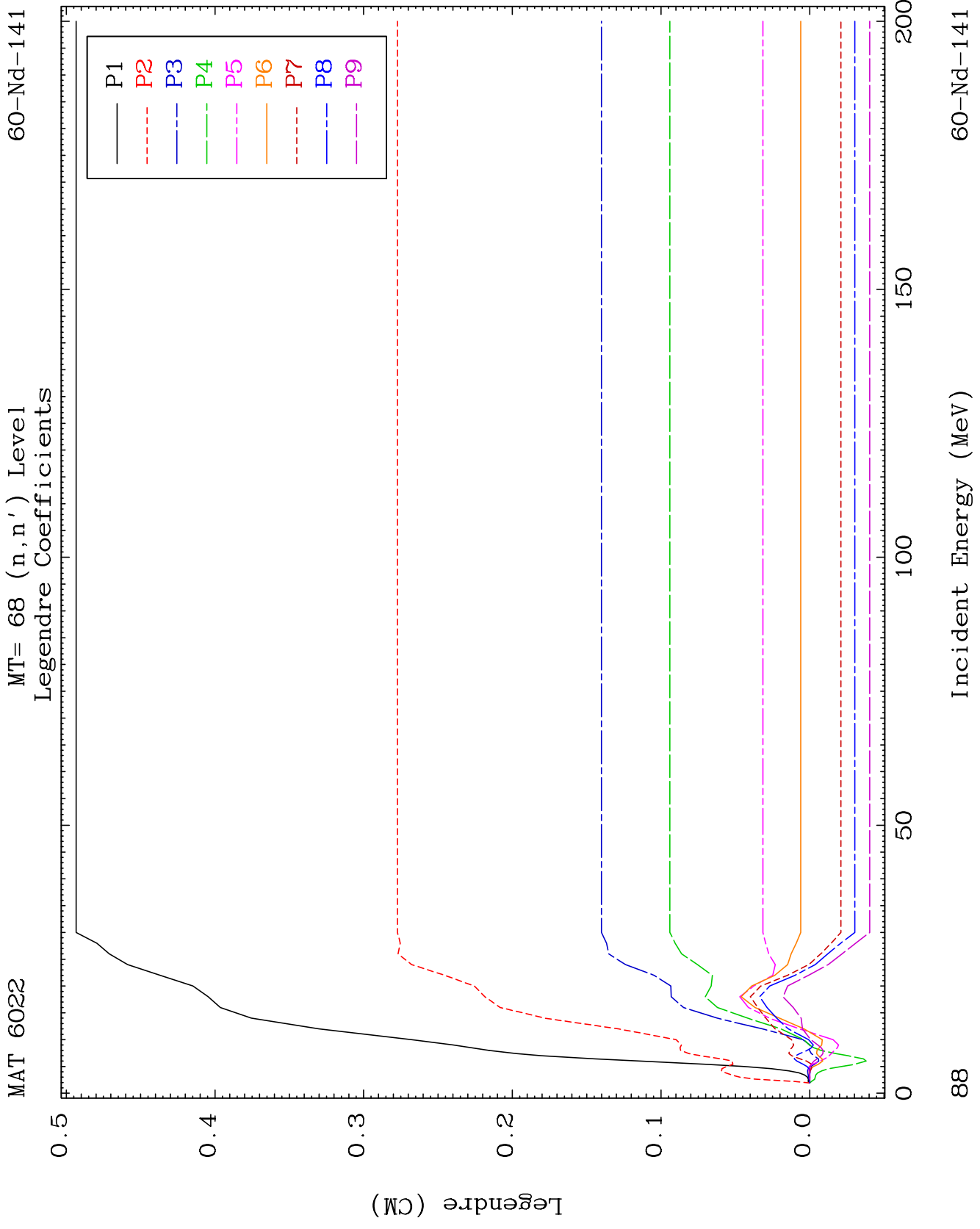
60-Nd-141



87

Incident Energy (MeV)

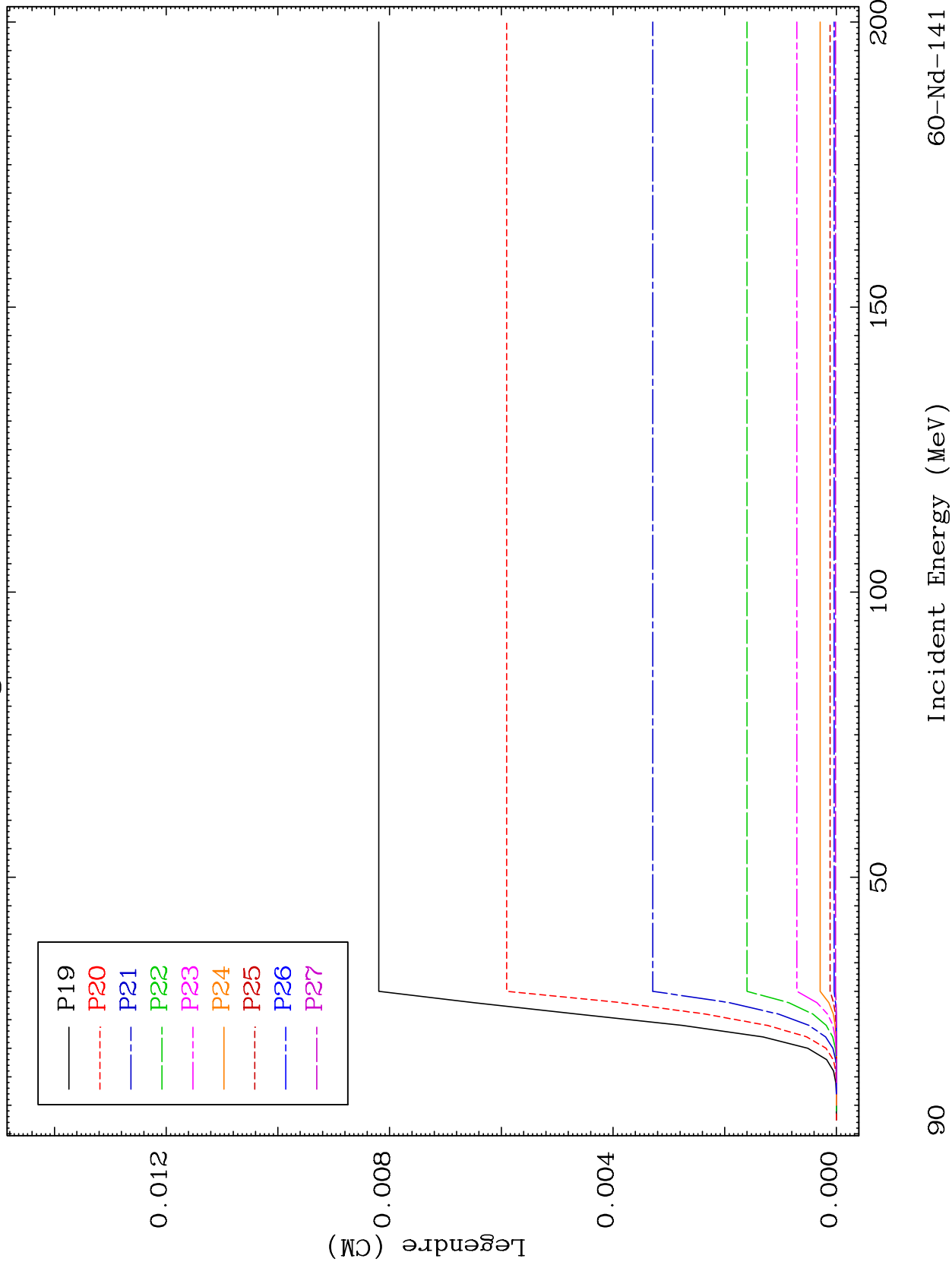
60-Nd-141



MAT 6022

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

60-Nd-141



90

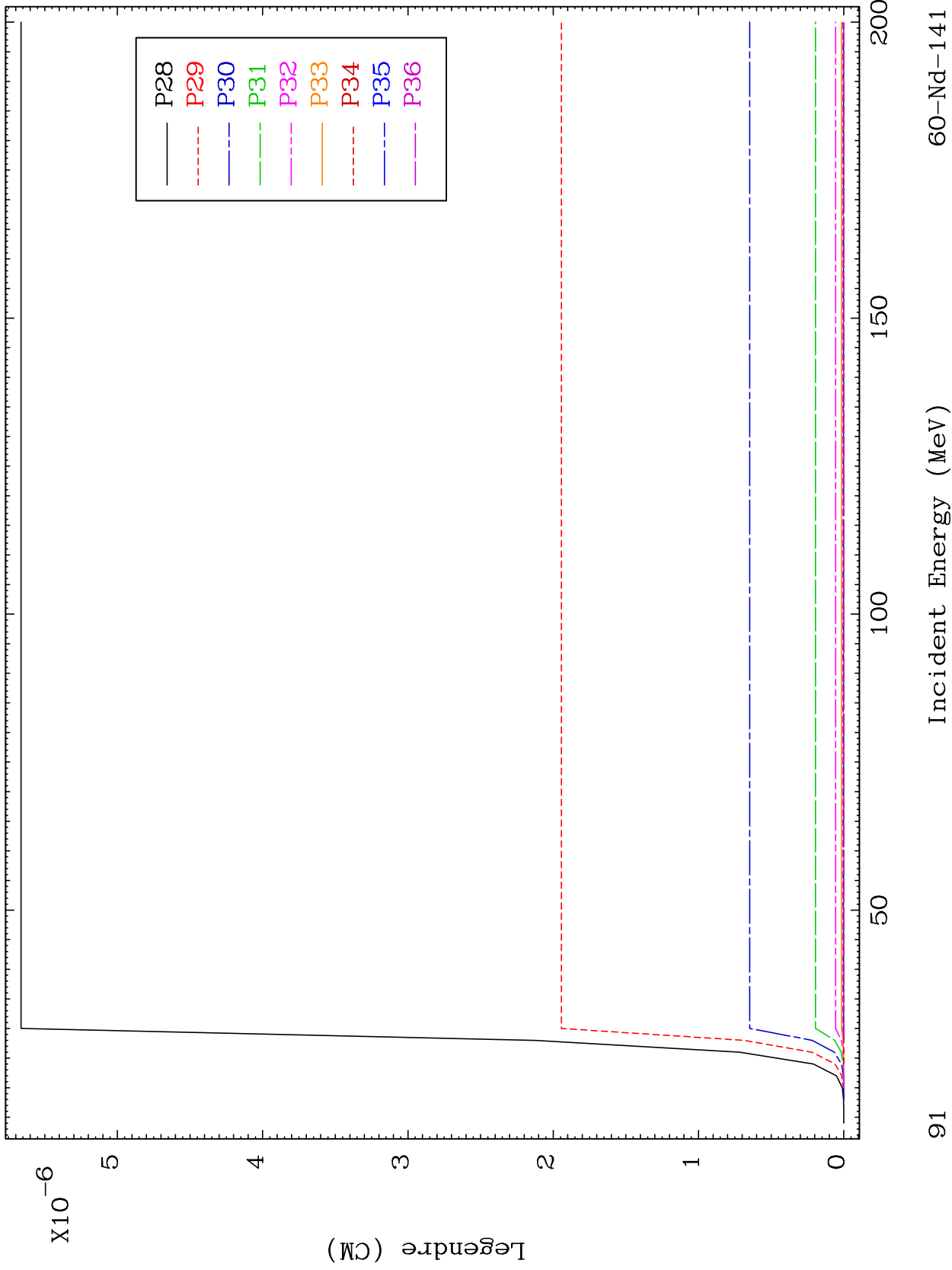
Incident Energy (MeV)

60-Nd-141

MAT 6022

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

60-Nd-141

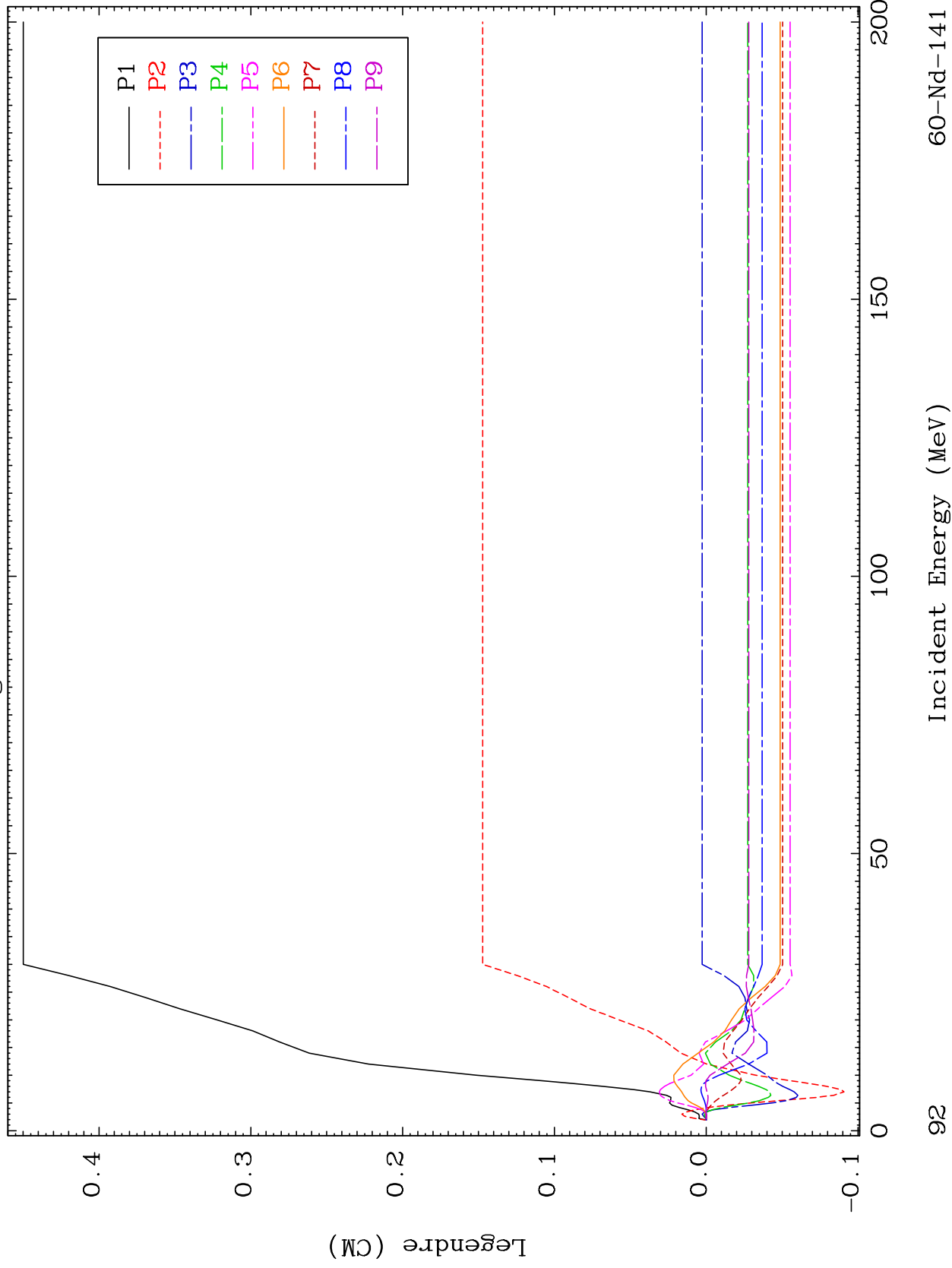


91

MAT 6022

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

60-Nd-141



60-Nd-141

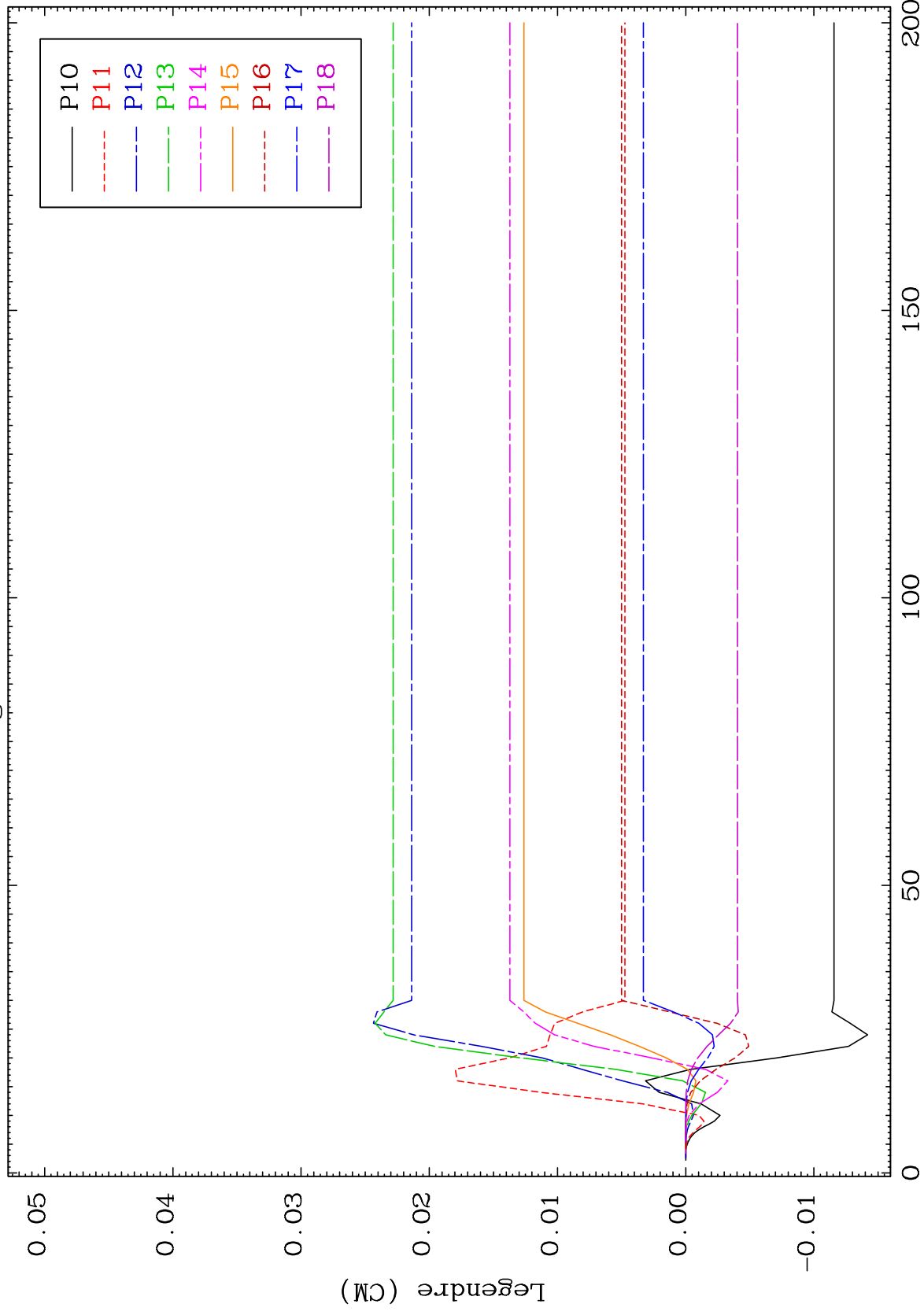
Incident Energy (MeV)

92

MAT 6022

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

60-Nd-141



93

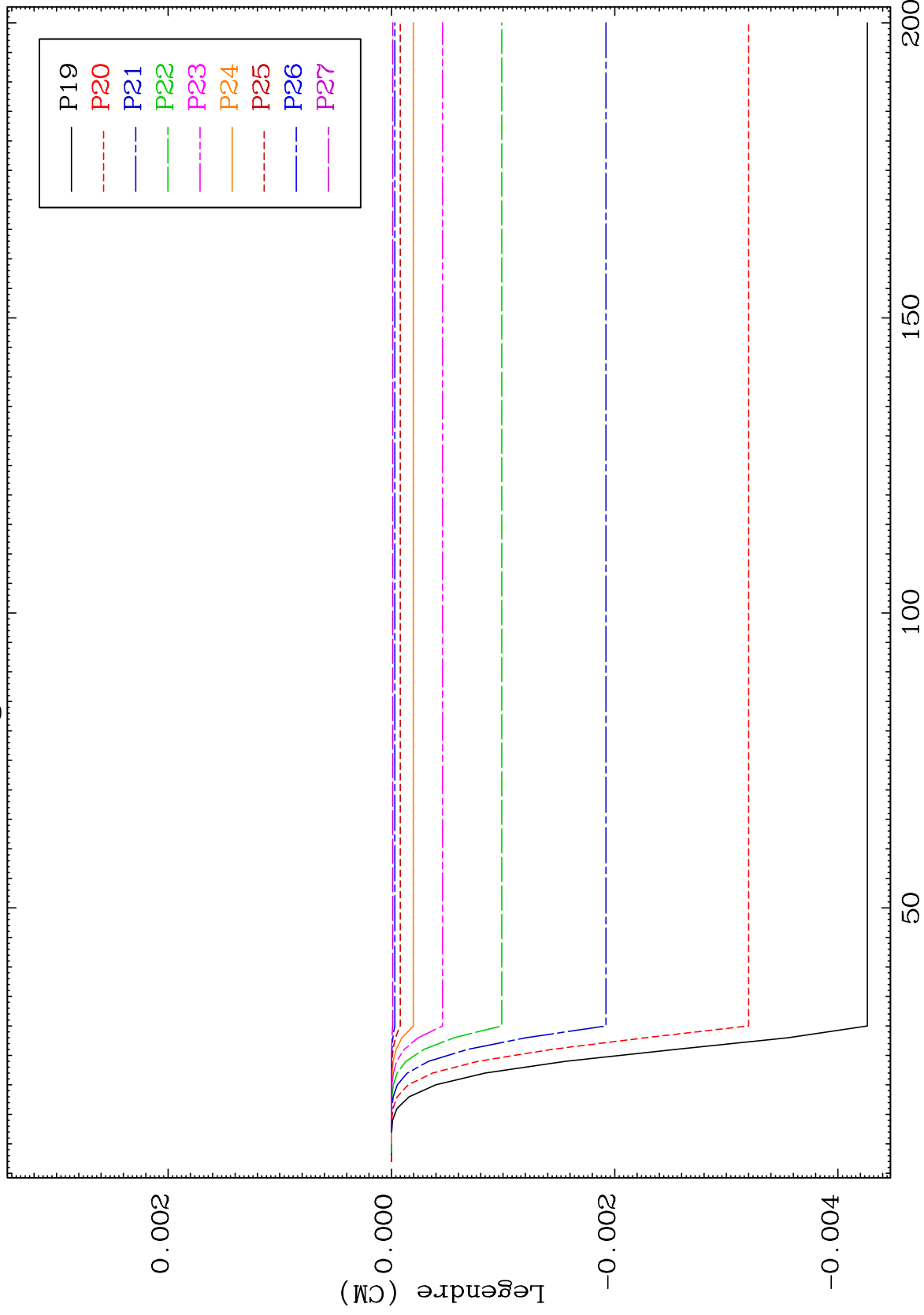
Incident Energy (MeV)

60-Nd-141

MAT 6022

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

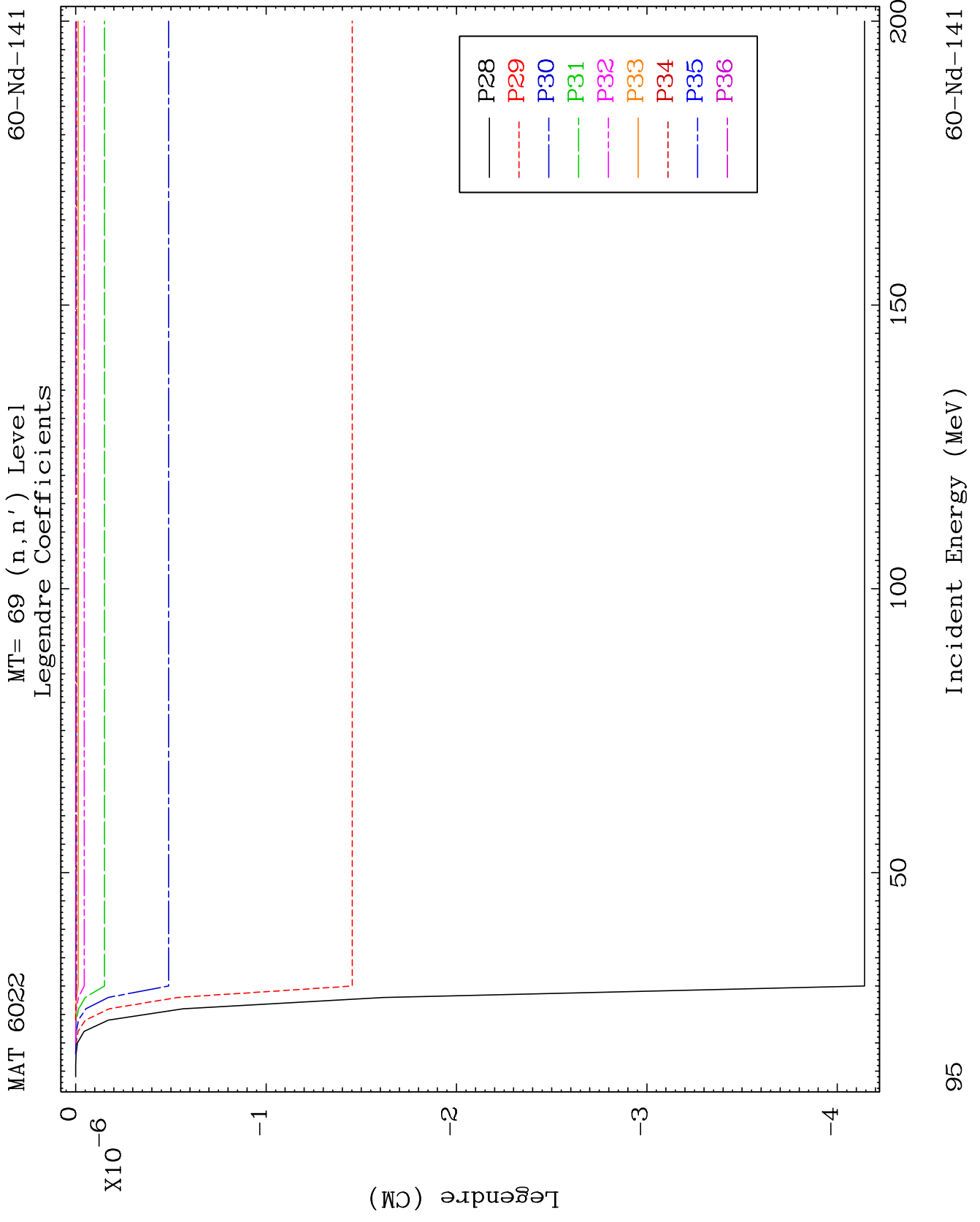
60-Nd-141



94

Incident Energy (MeV)

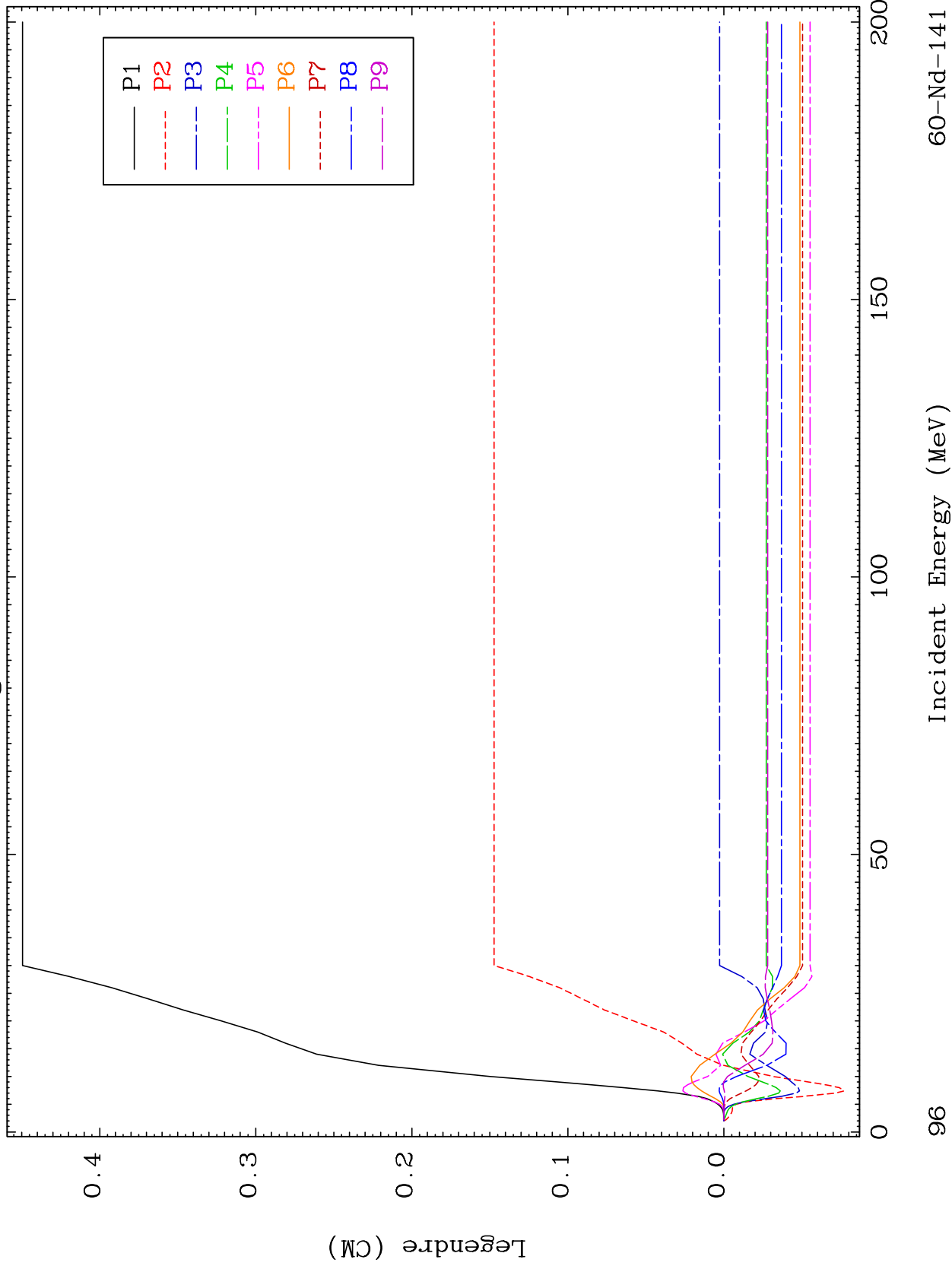
60-Nd-141



MAT 6022

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

60-Nd-141



60-Nd-141

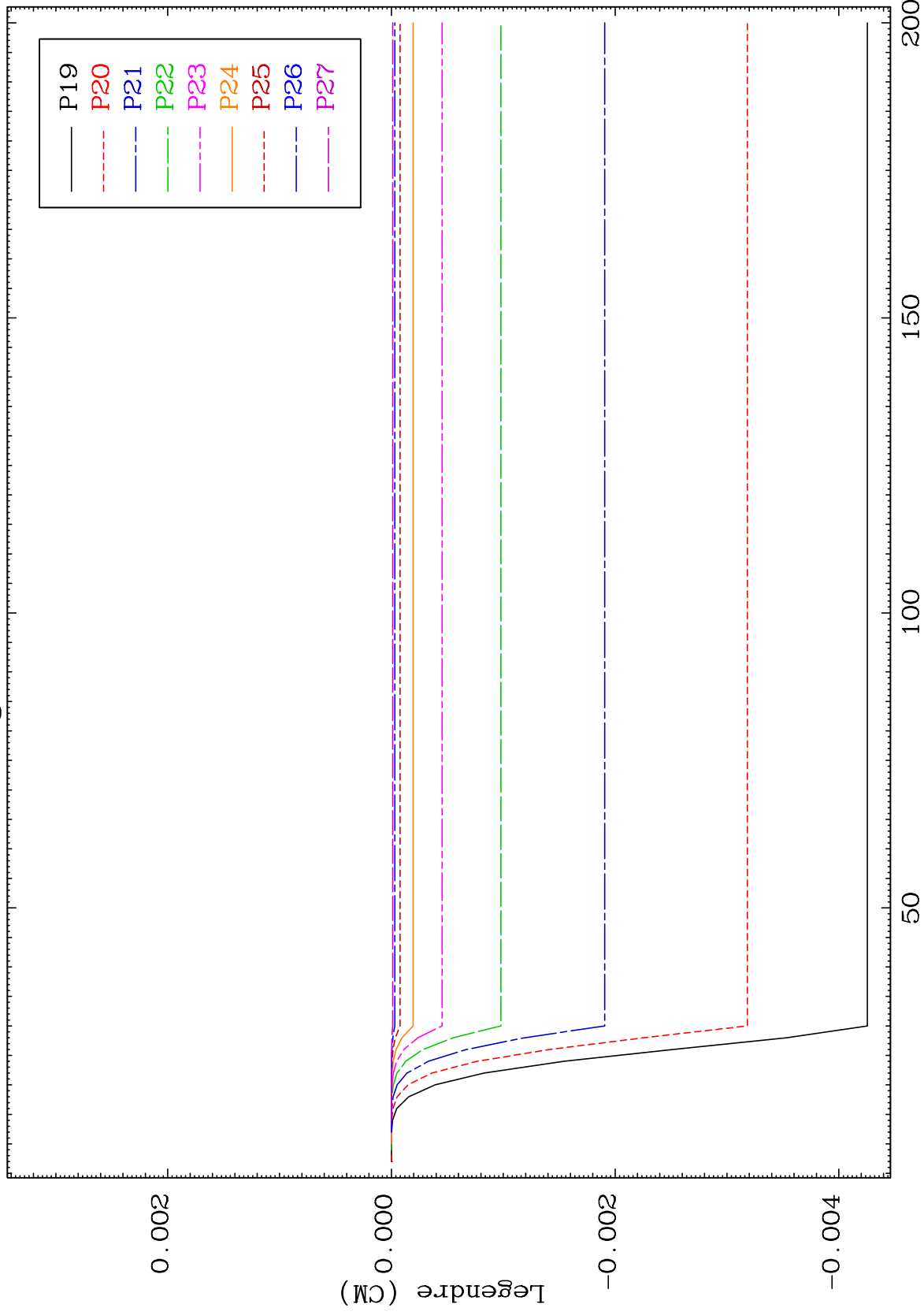
Incident Energy (MeV)

96

MAT 6022

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

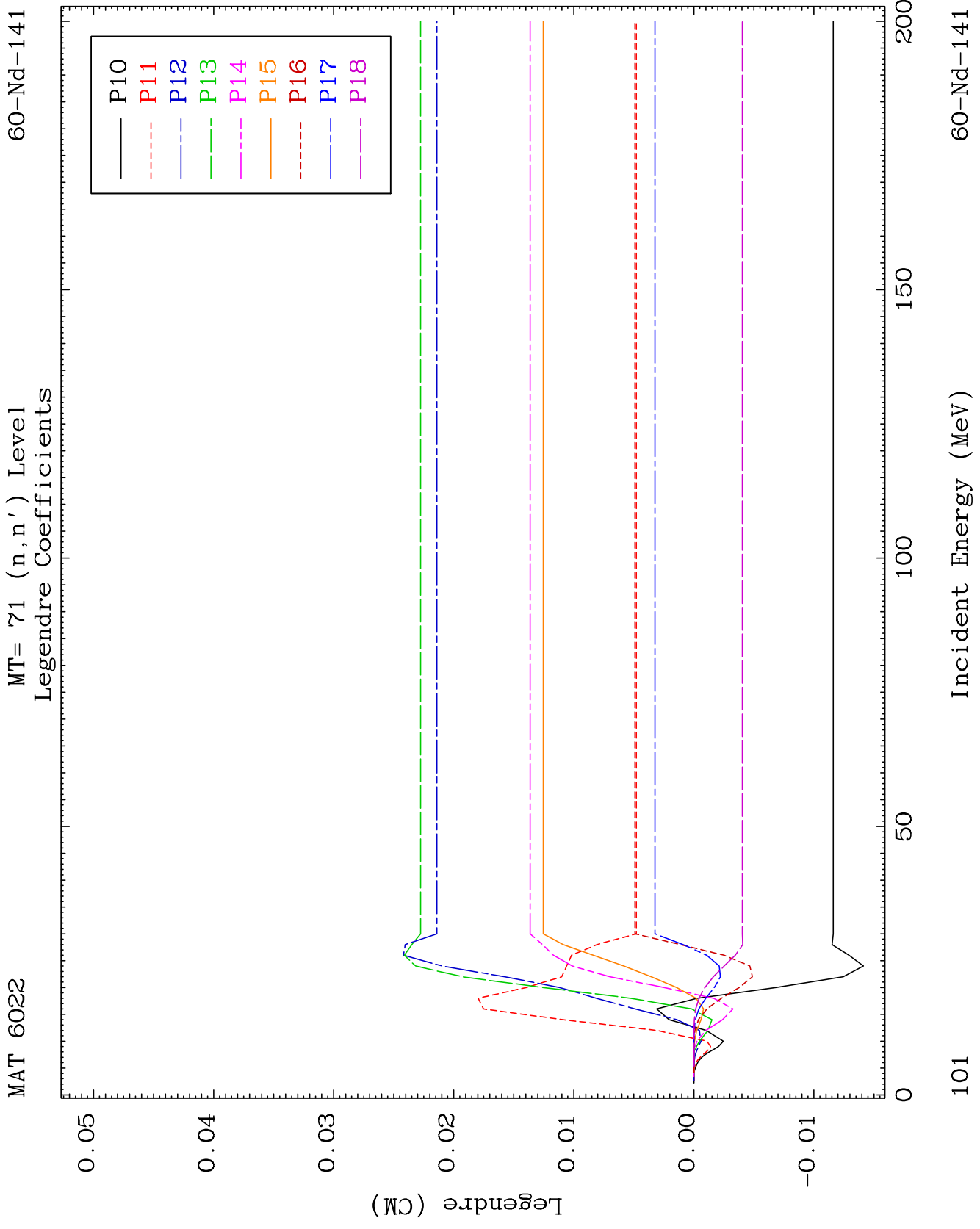
60-Nd-141

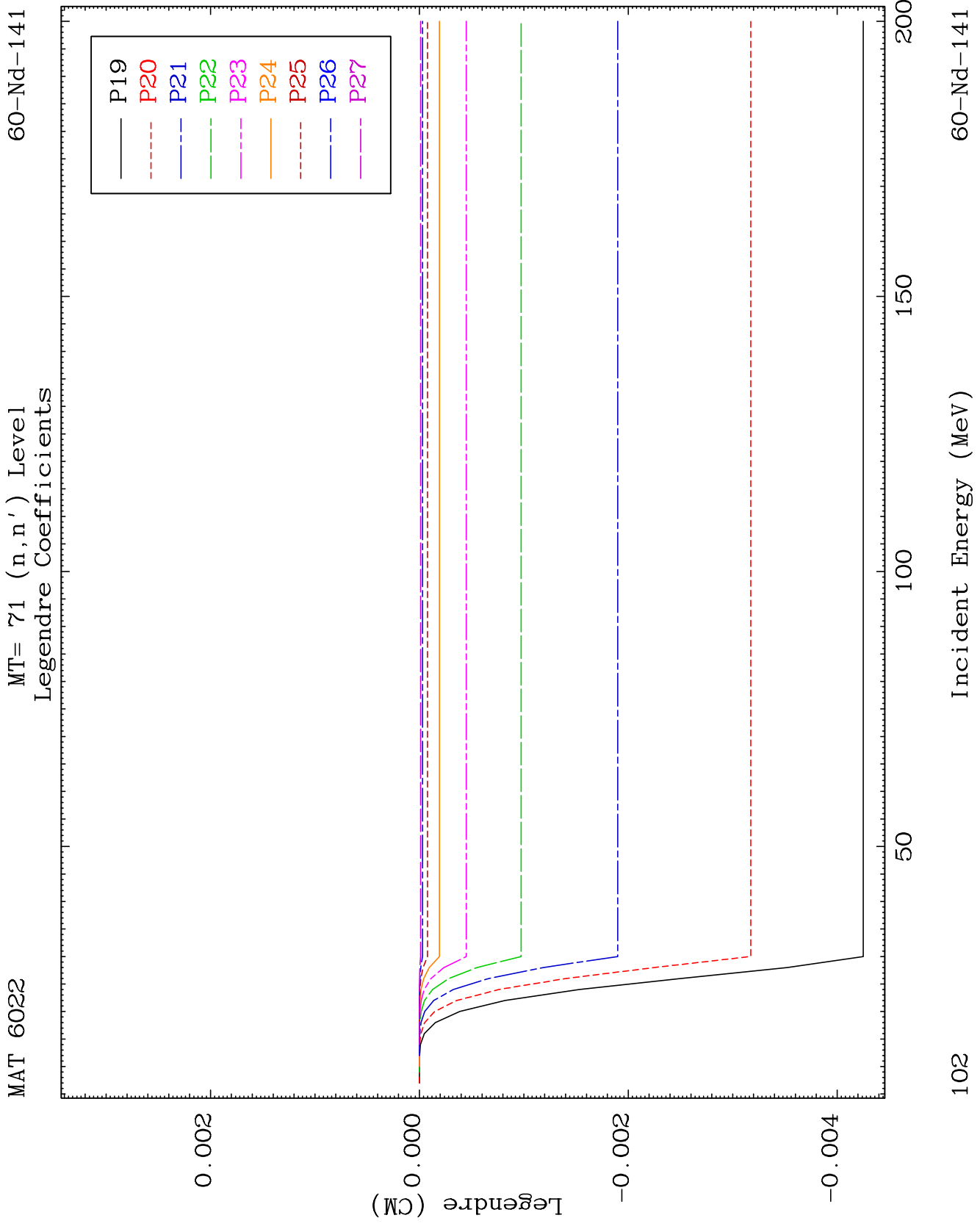


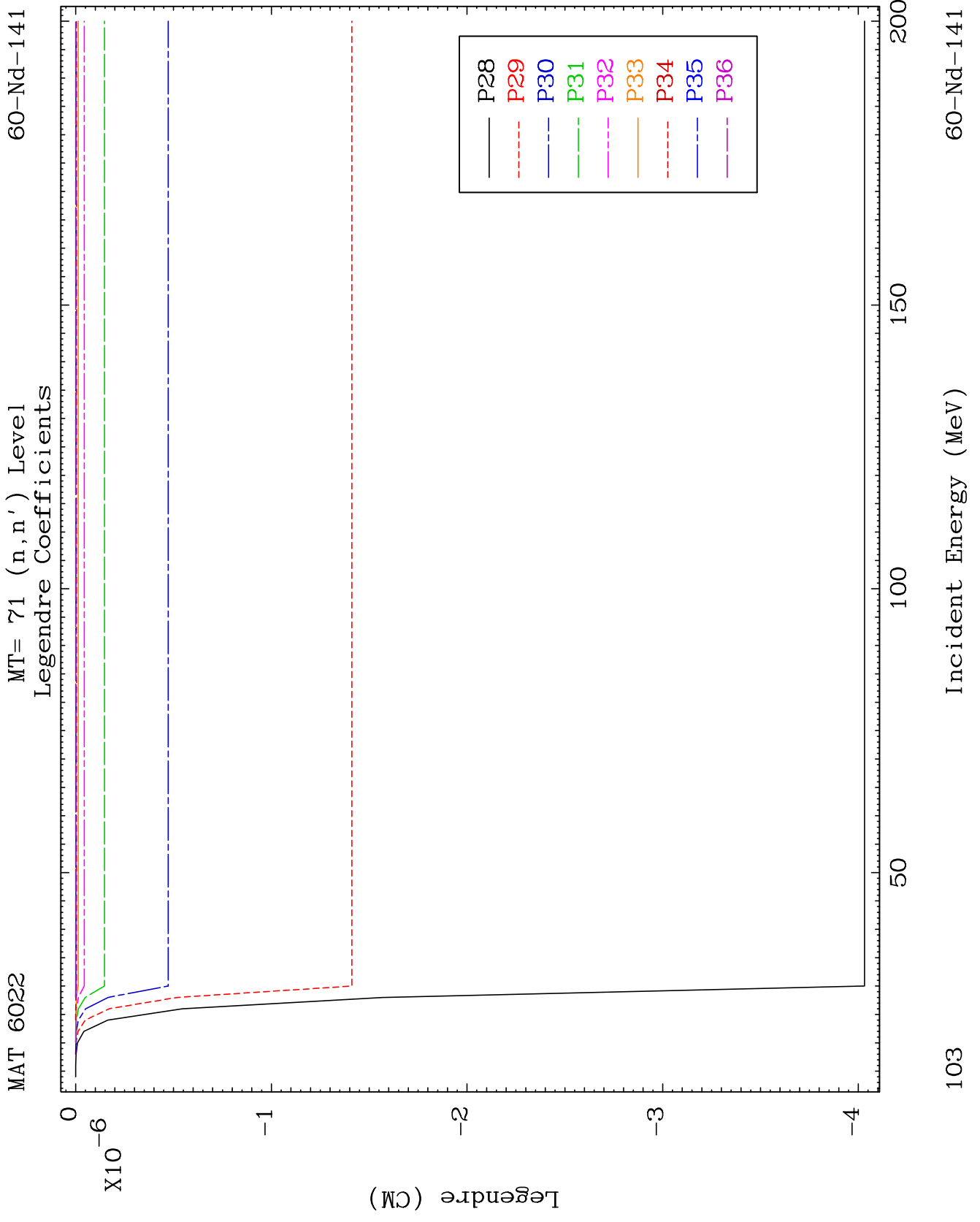
98

Incident Energy (MeV)

60-Nd-141



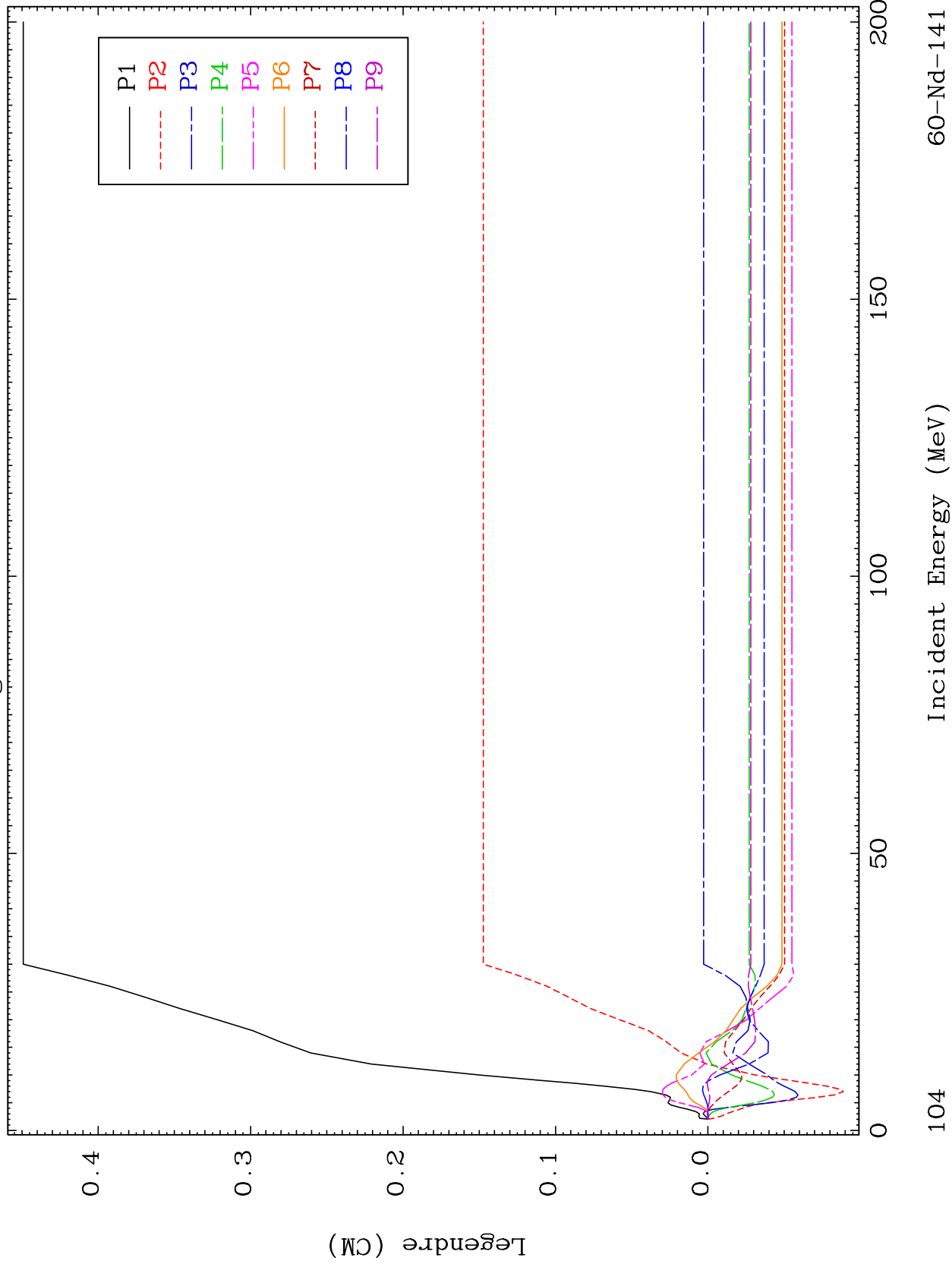




MAT 6022

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

60-Nd-141



60-Nd-141

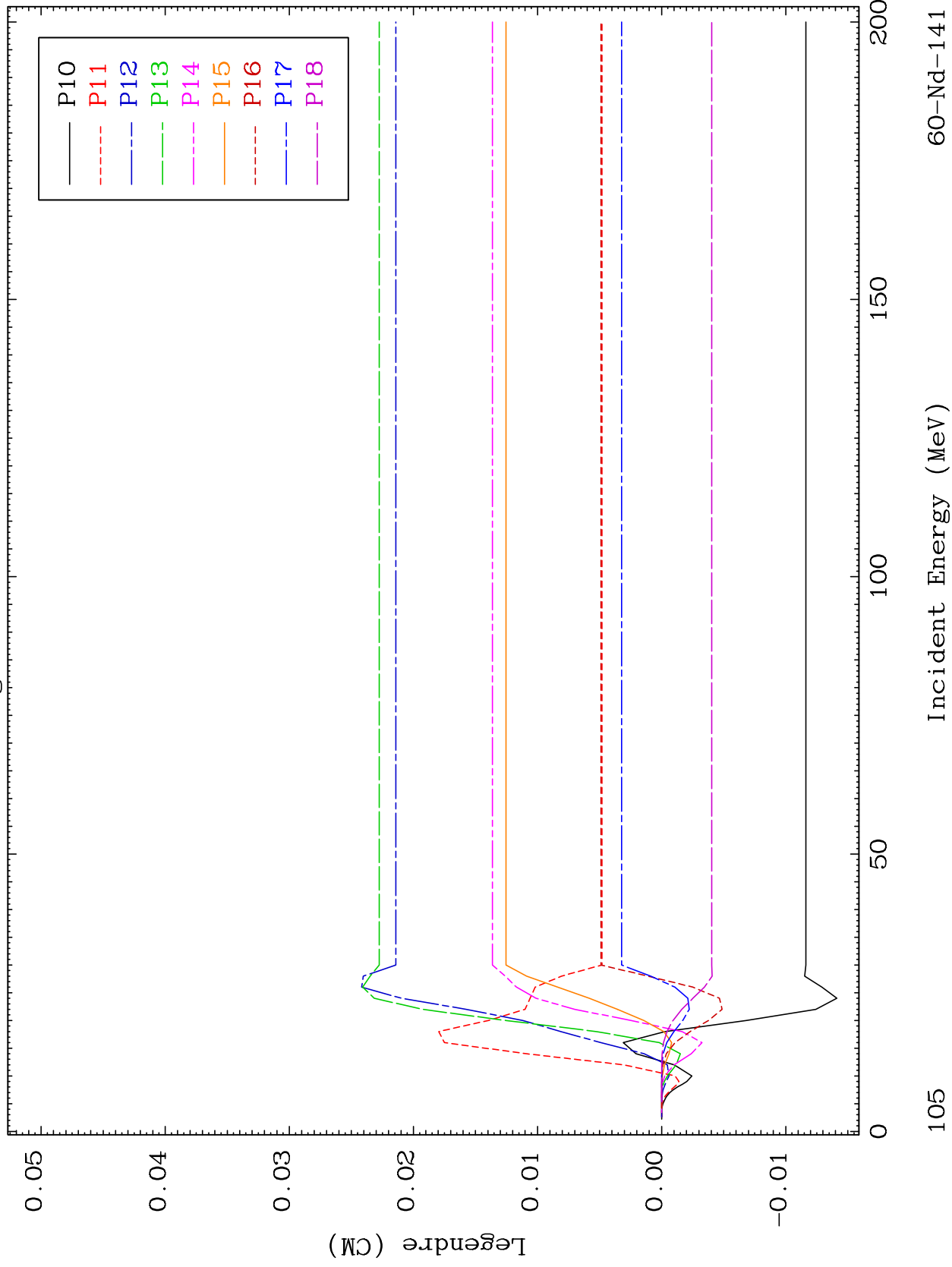
Incident Energy (MeV)

104

MAT 6022

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

60-Nd-141



60-Nd-141

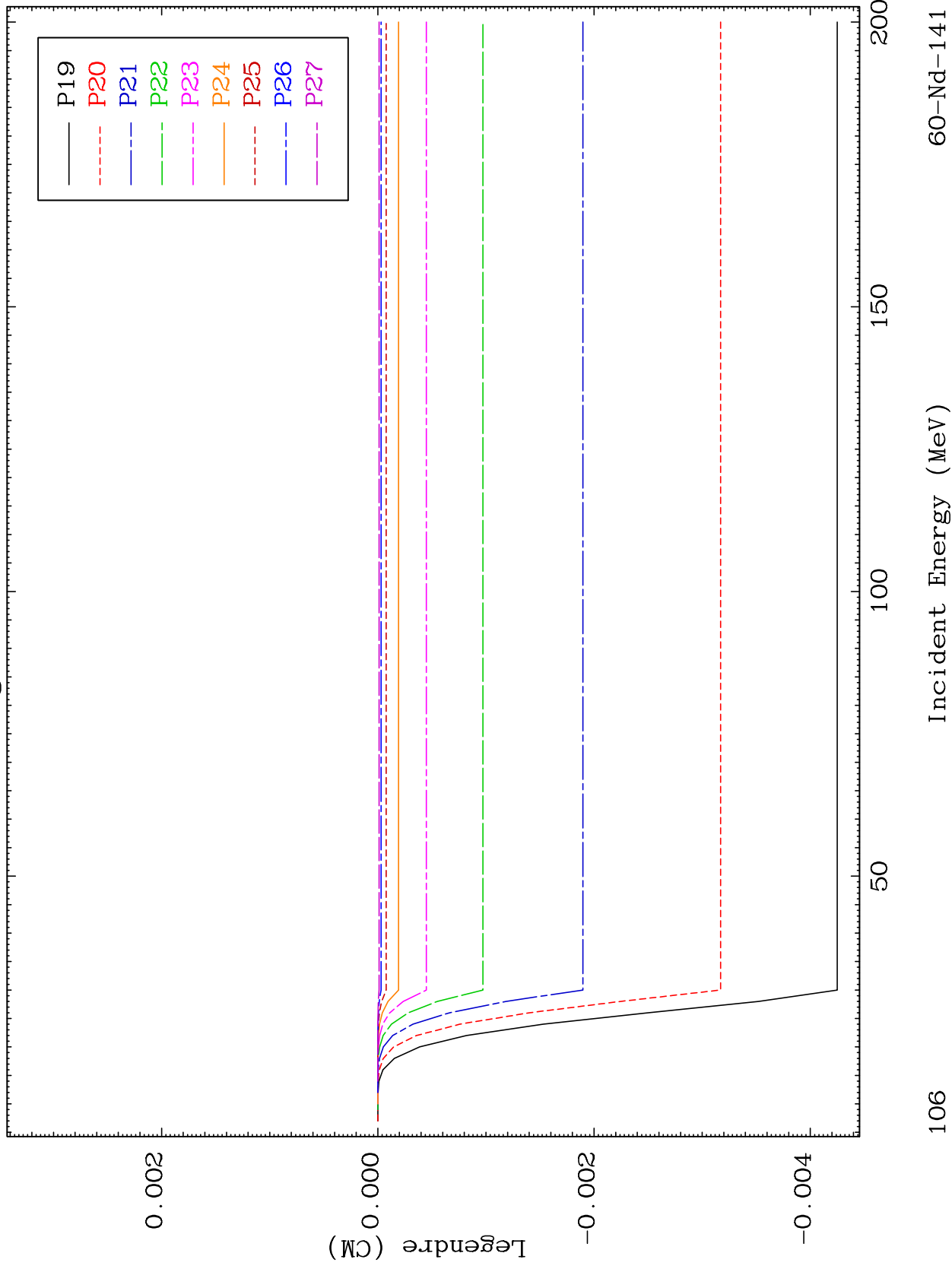
Incident Energy (MeV)

Legendre (CM)

MAT 6022

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

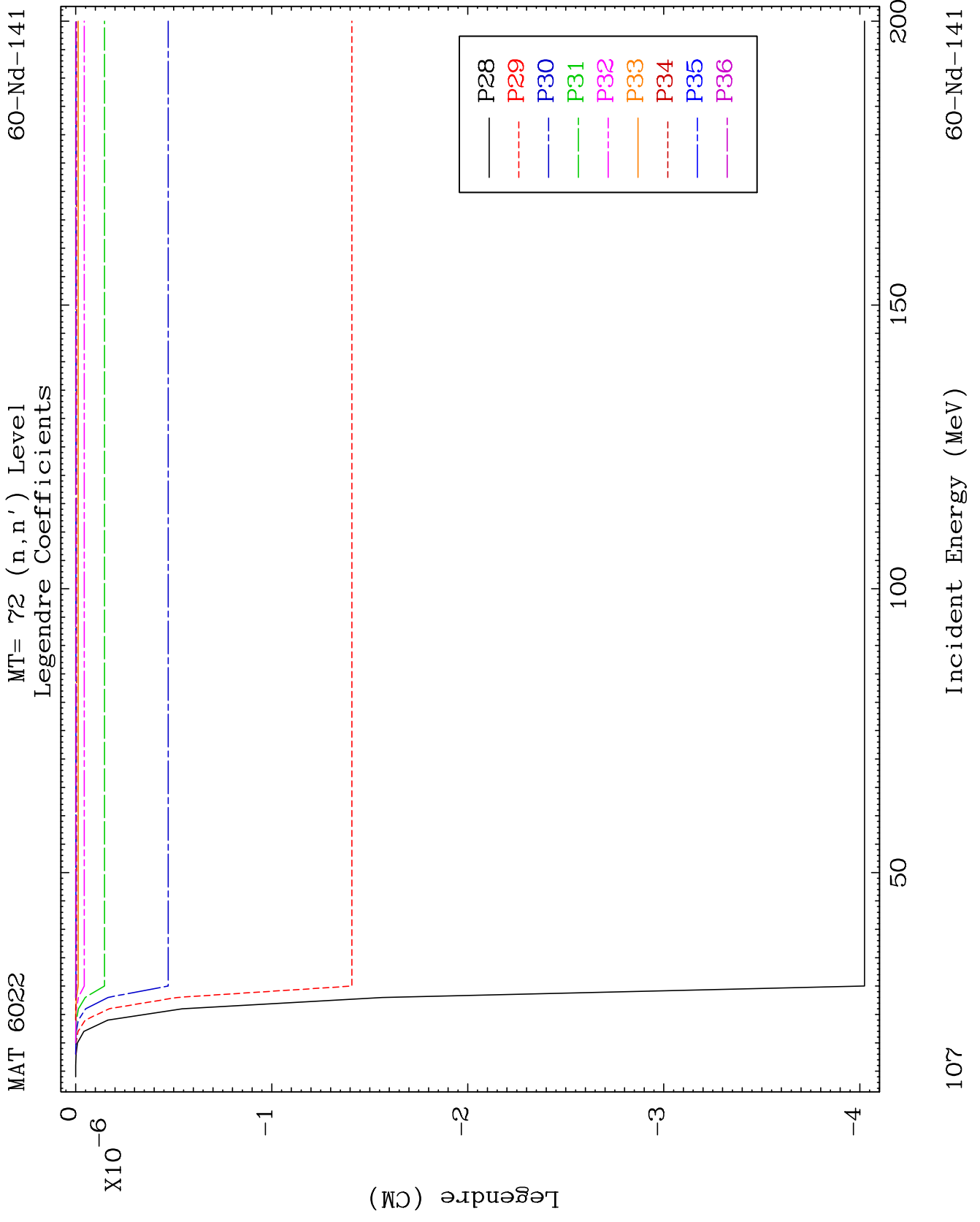
60-Nd-141



106

Incident Energy (MeV)

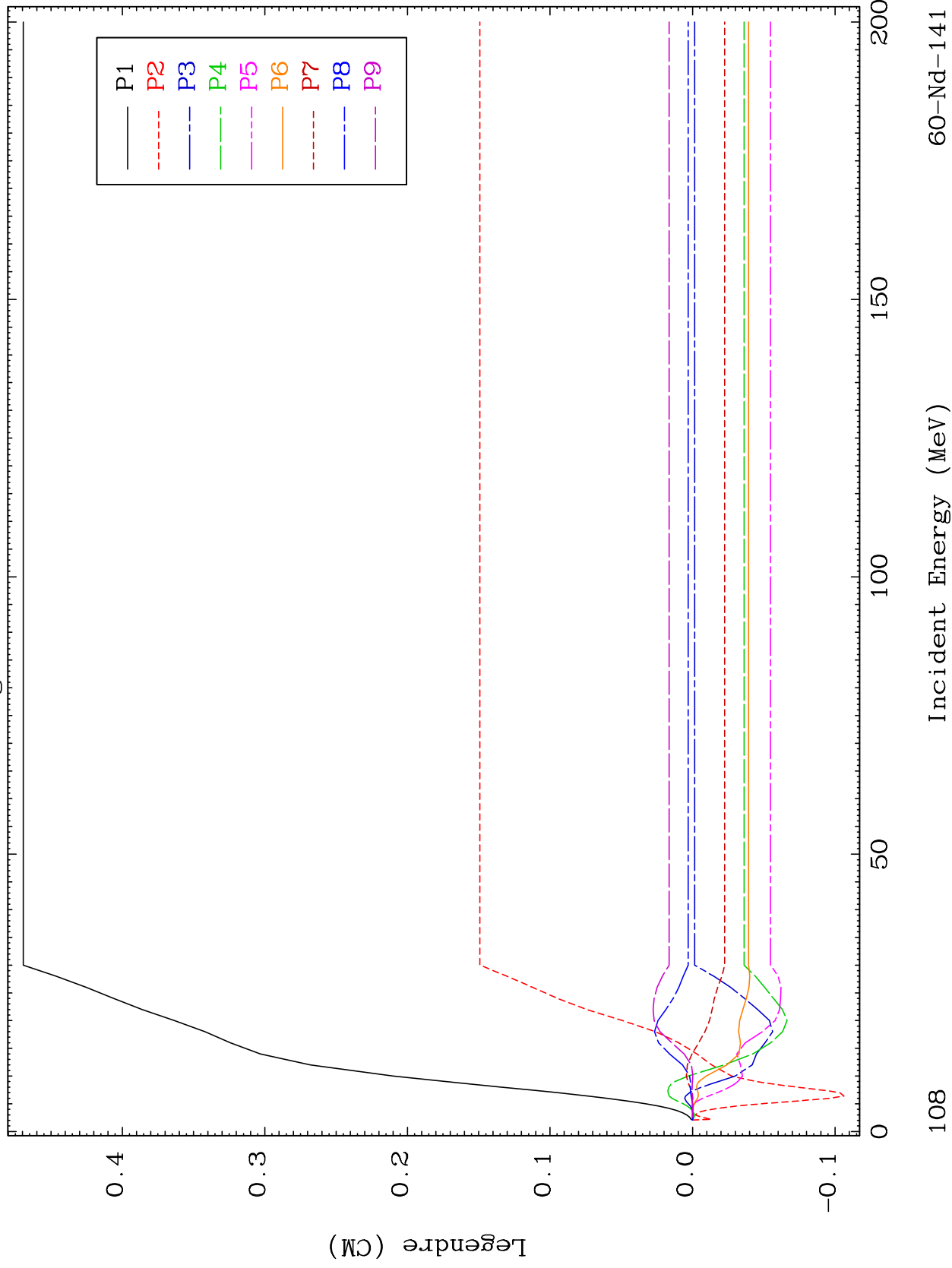
60-Nd-141



MAT 6022

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

60-Nd-141



60-Nd-141

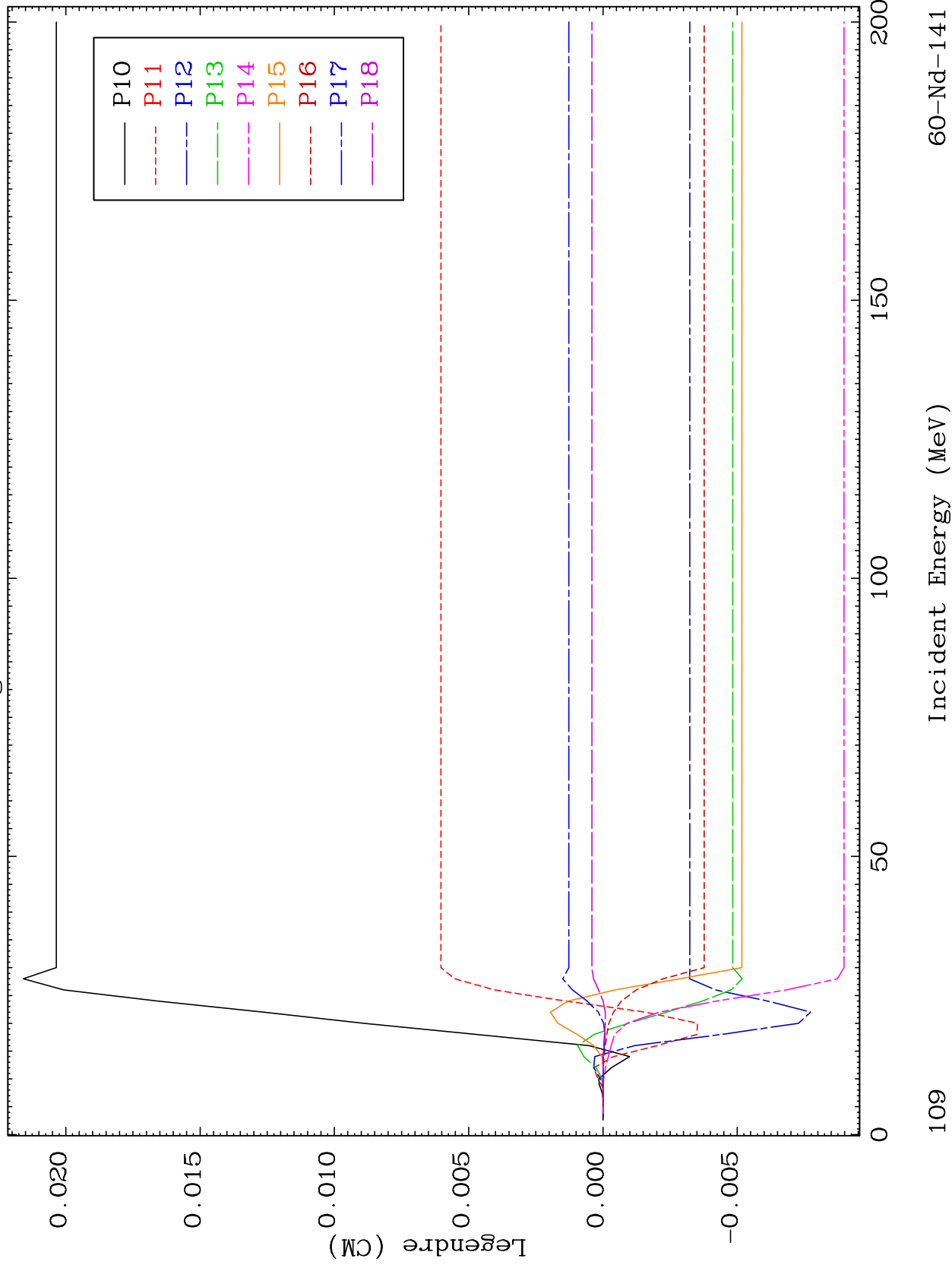
Incident Energy (MeV)

108

MAT 6022

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

60-Nd-141



60-Nd-141

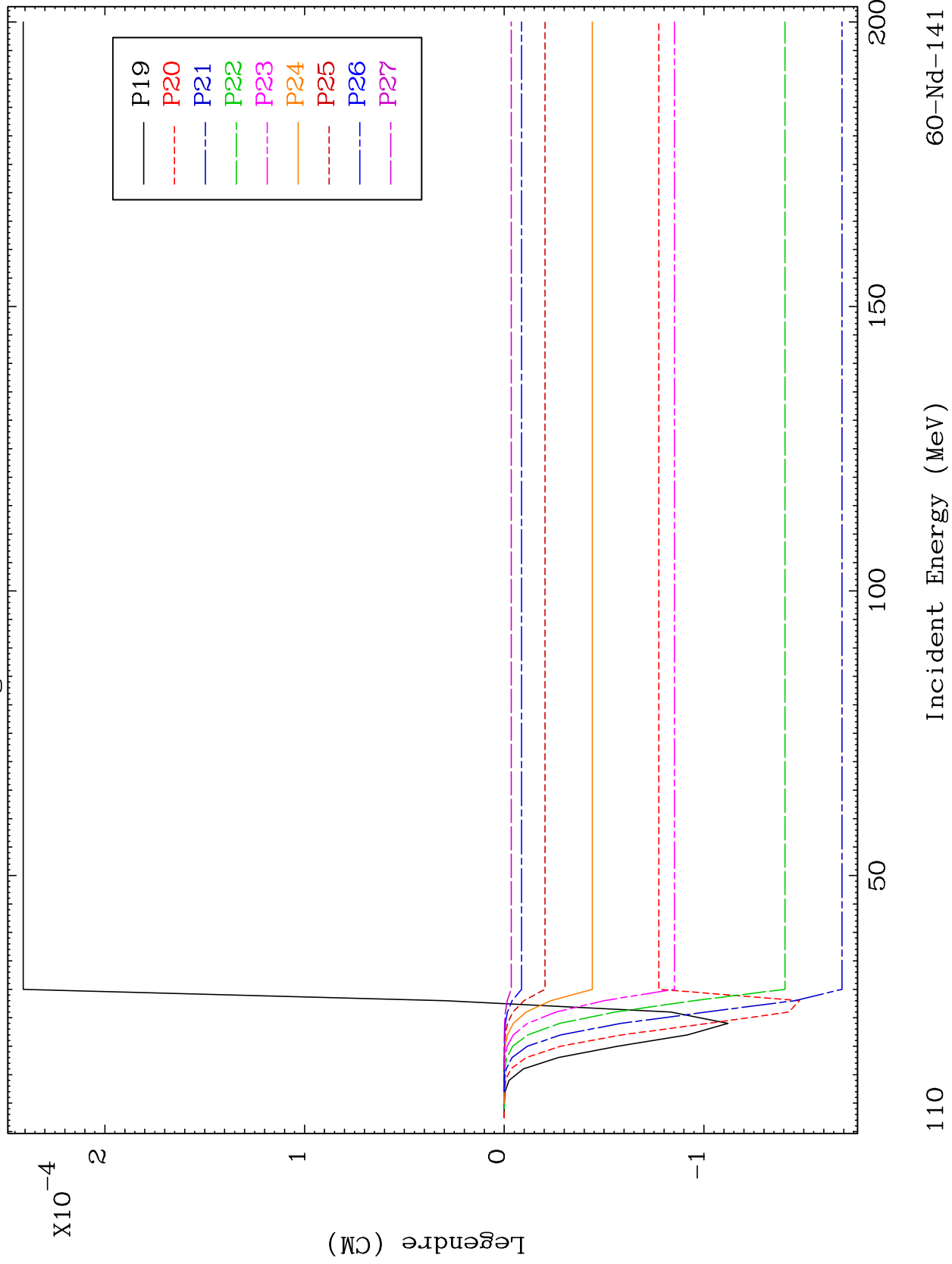
Incident Energy (MeV)

109

MAT 6022

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

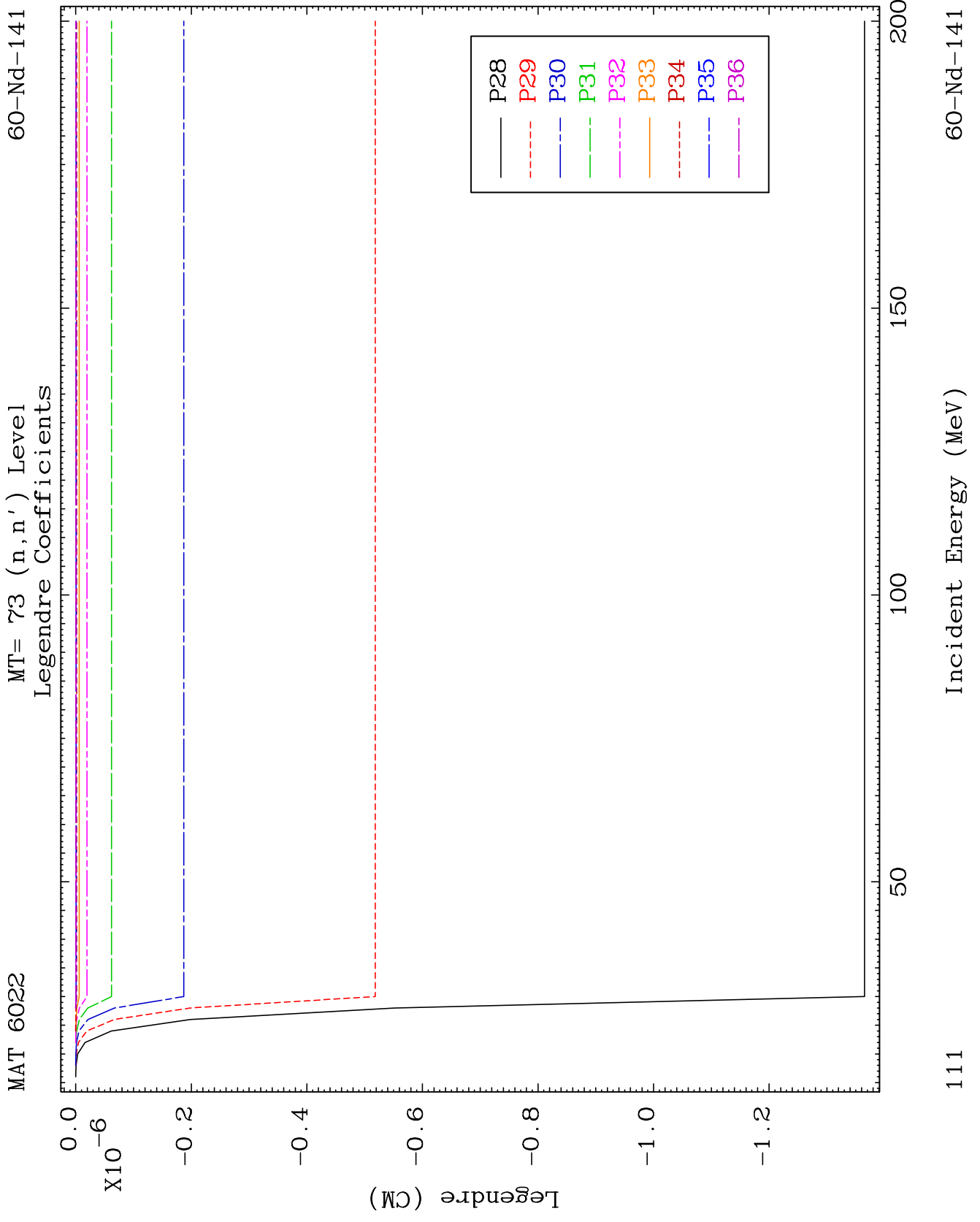
60-Nd-141

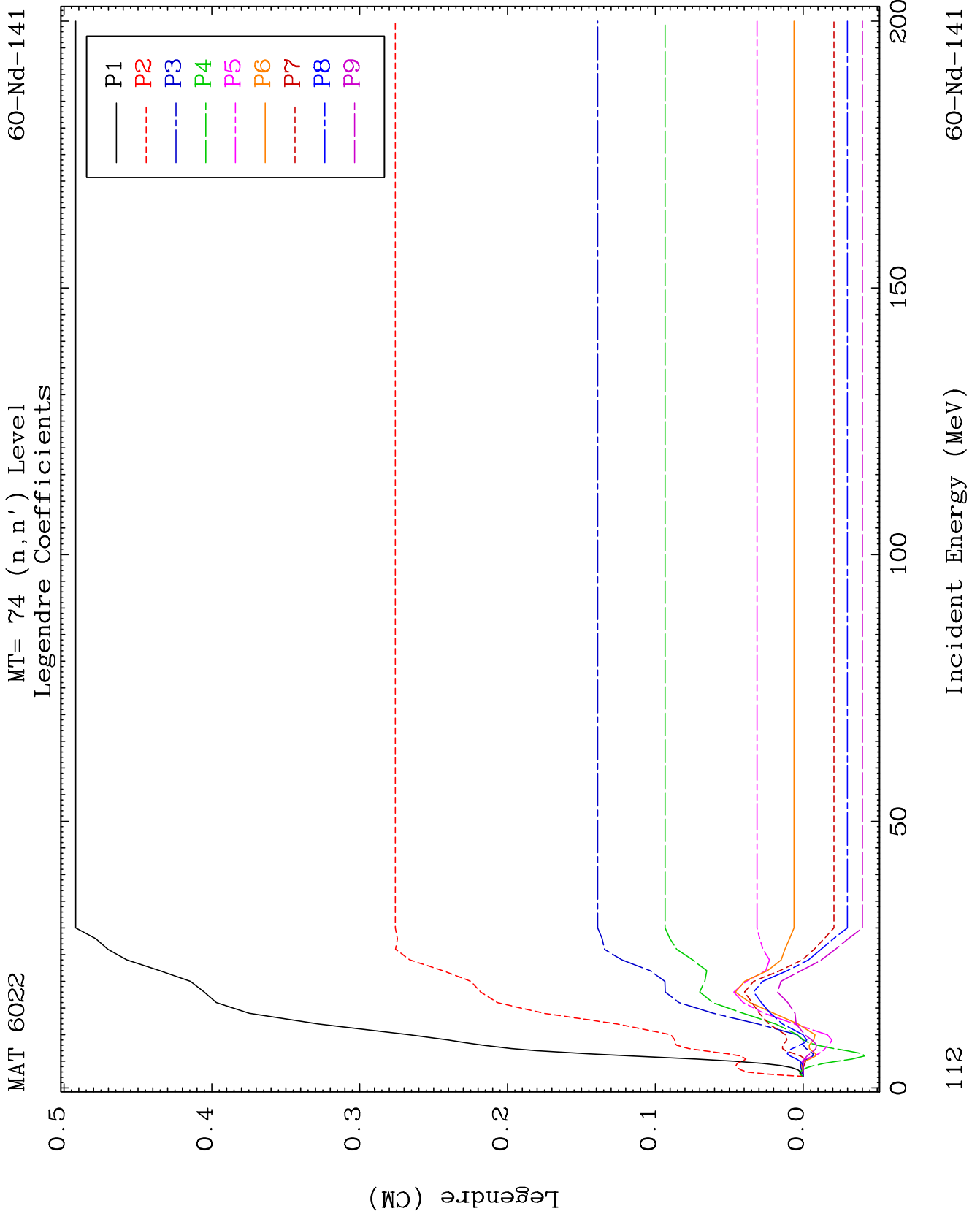


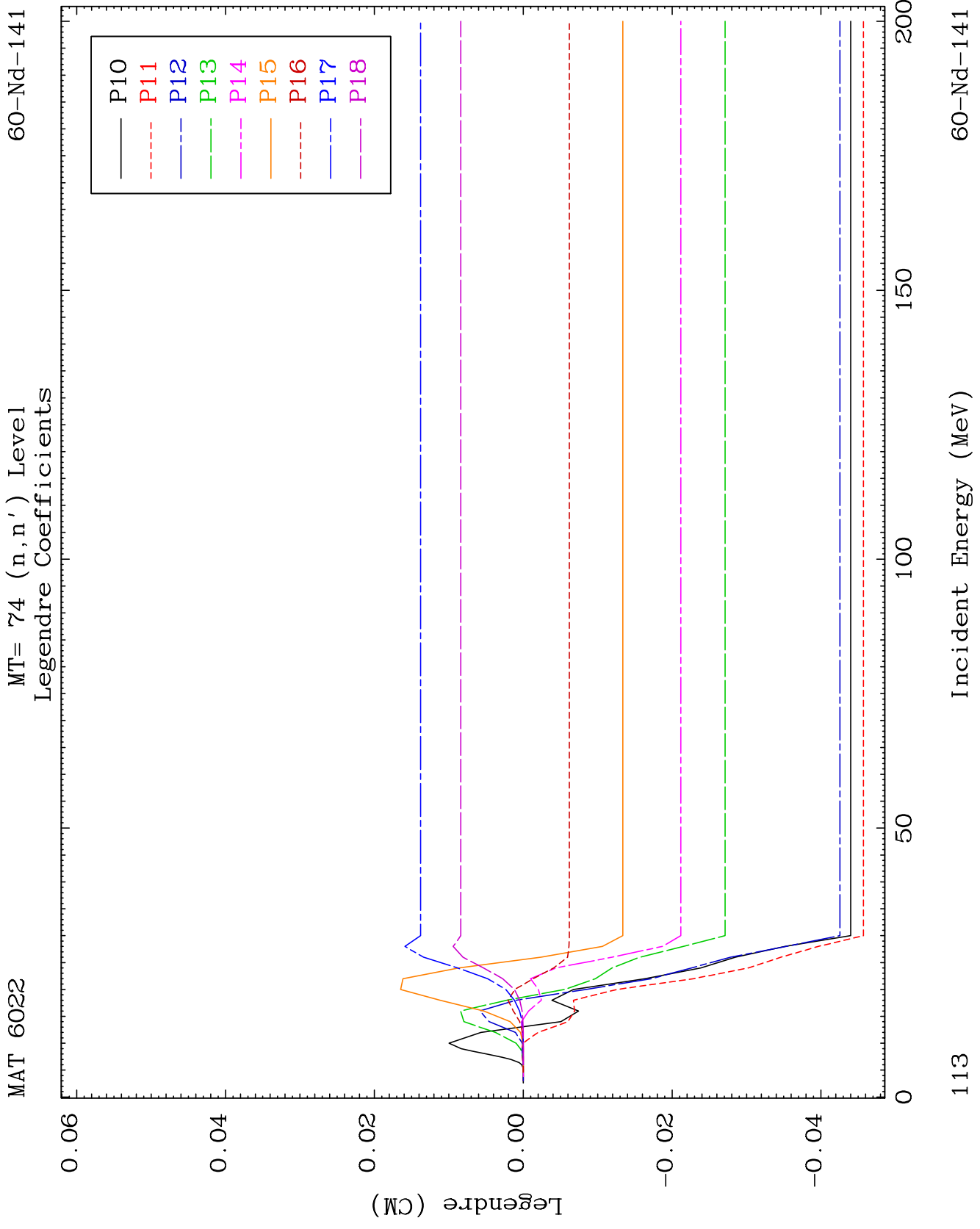
110

Incident Energy (MeV)

60-Nd-141



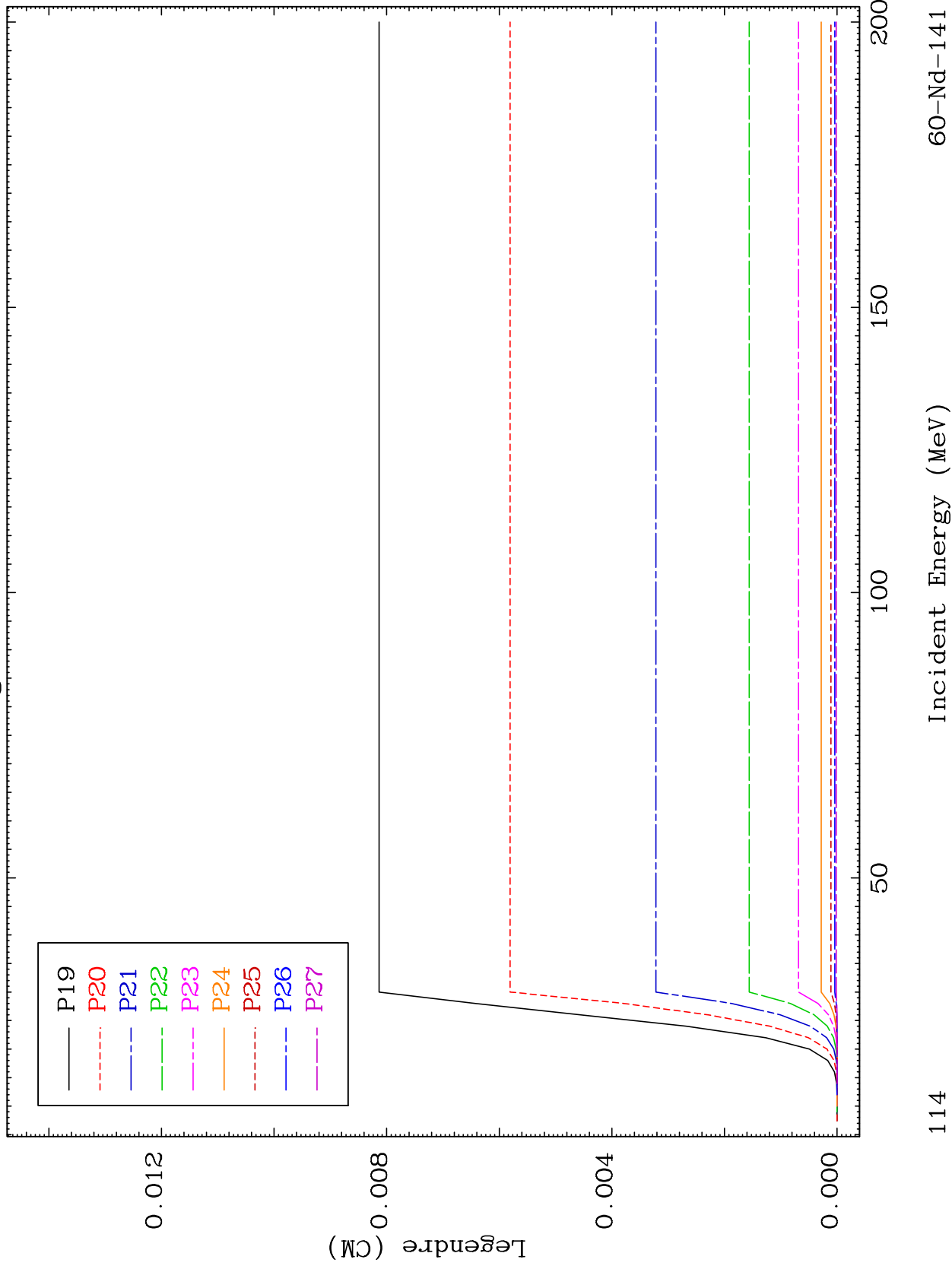




MAT 6022

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

60-Nd-141



114

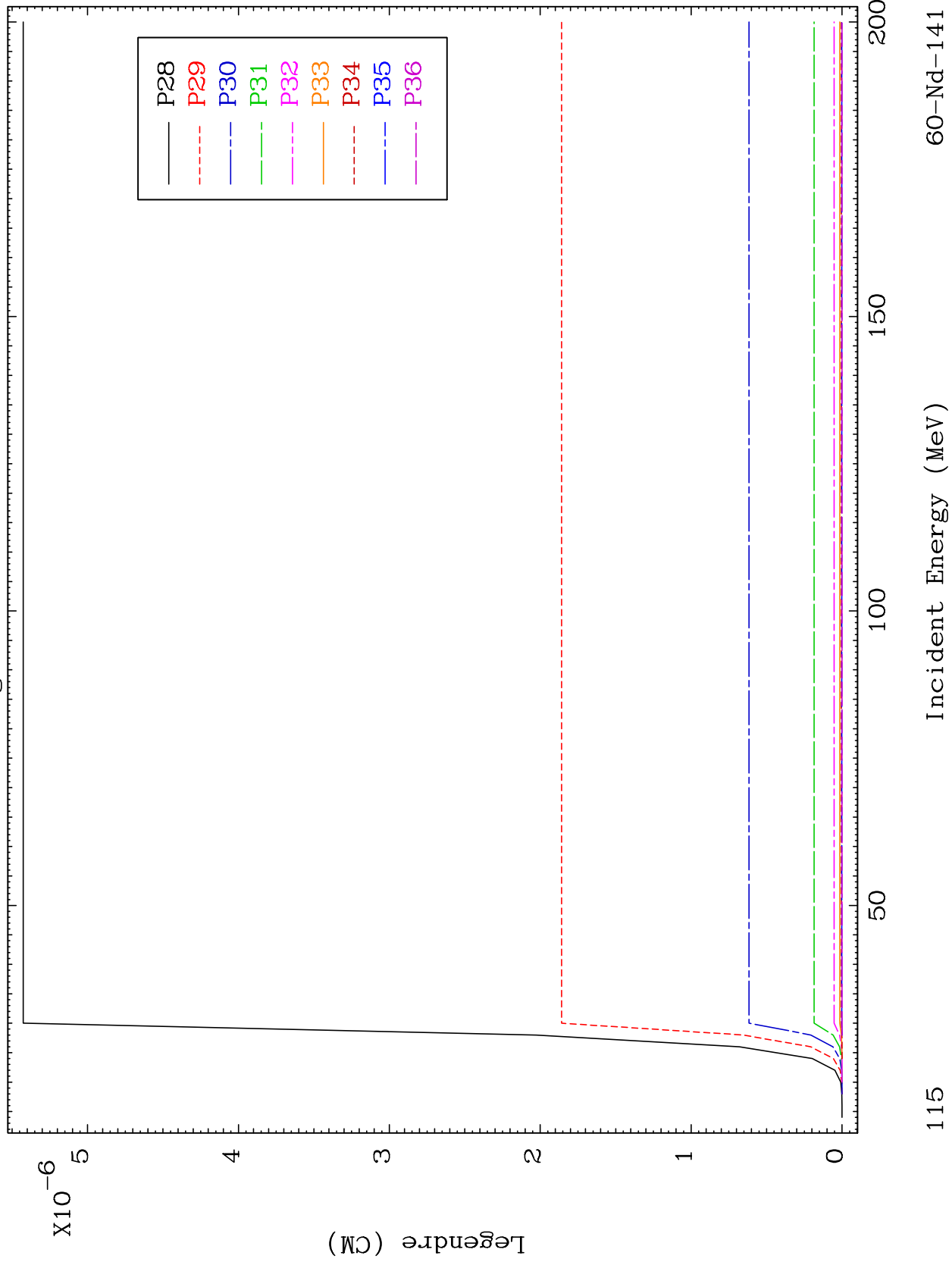
Incident Energy (MeV)

60-Nd-141

MAT 6022

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

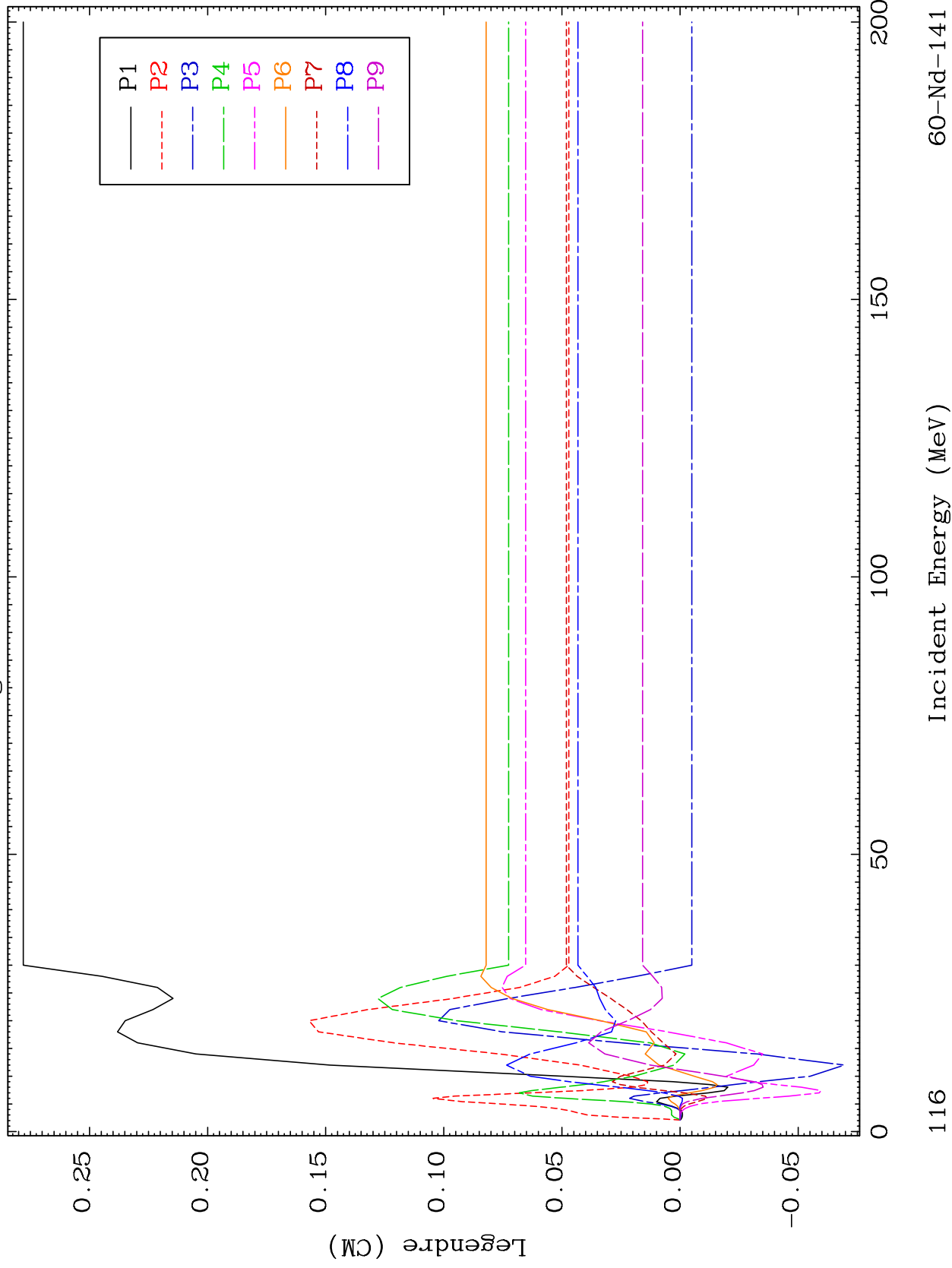
60-Nd-141



MAT 6022

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

60-Nd-141



60-Nd-141

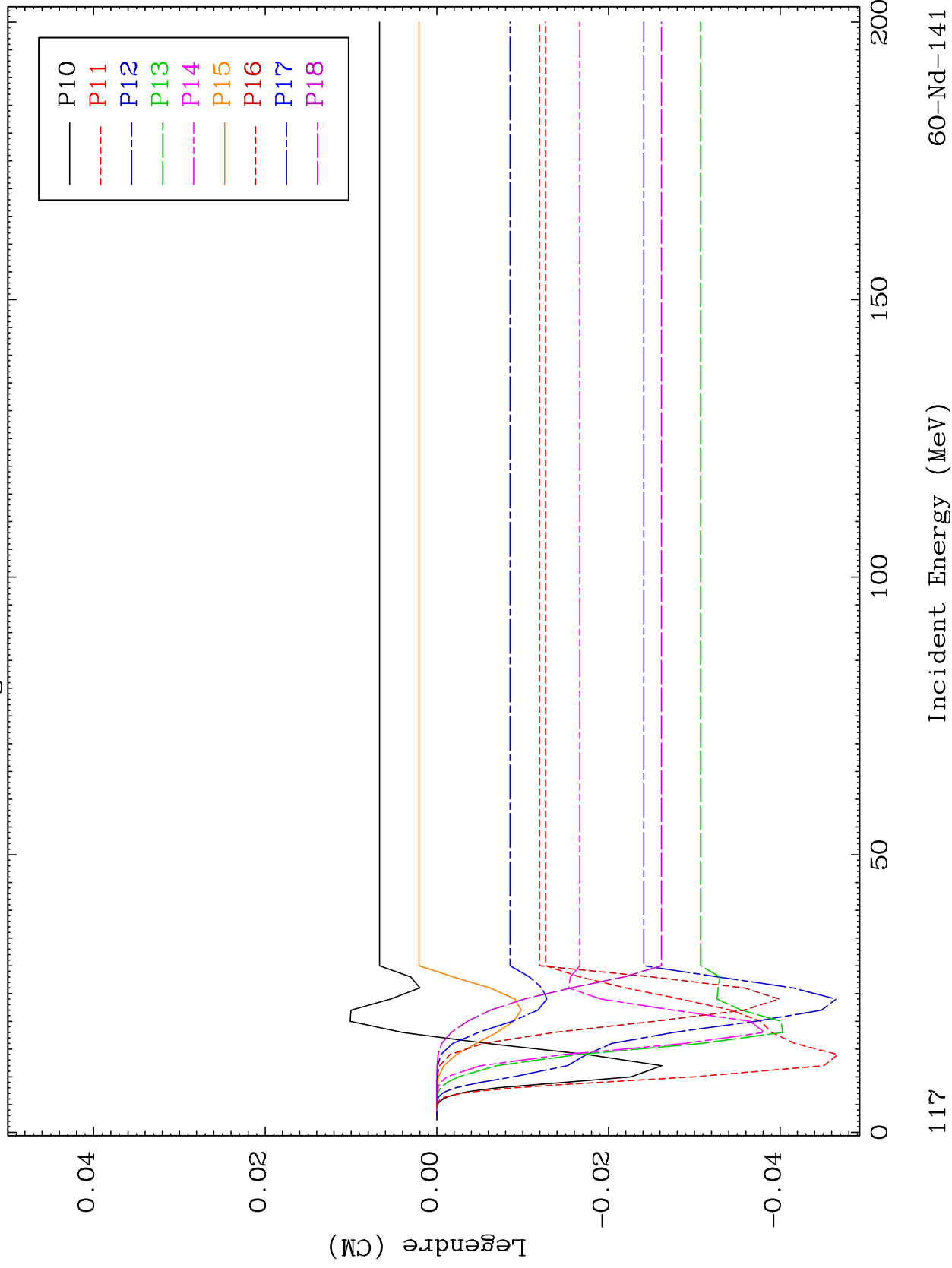
Incident Energy (MeV)

116

MAT 6022

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

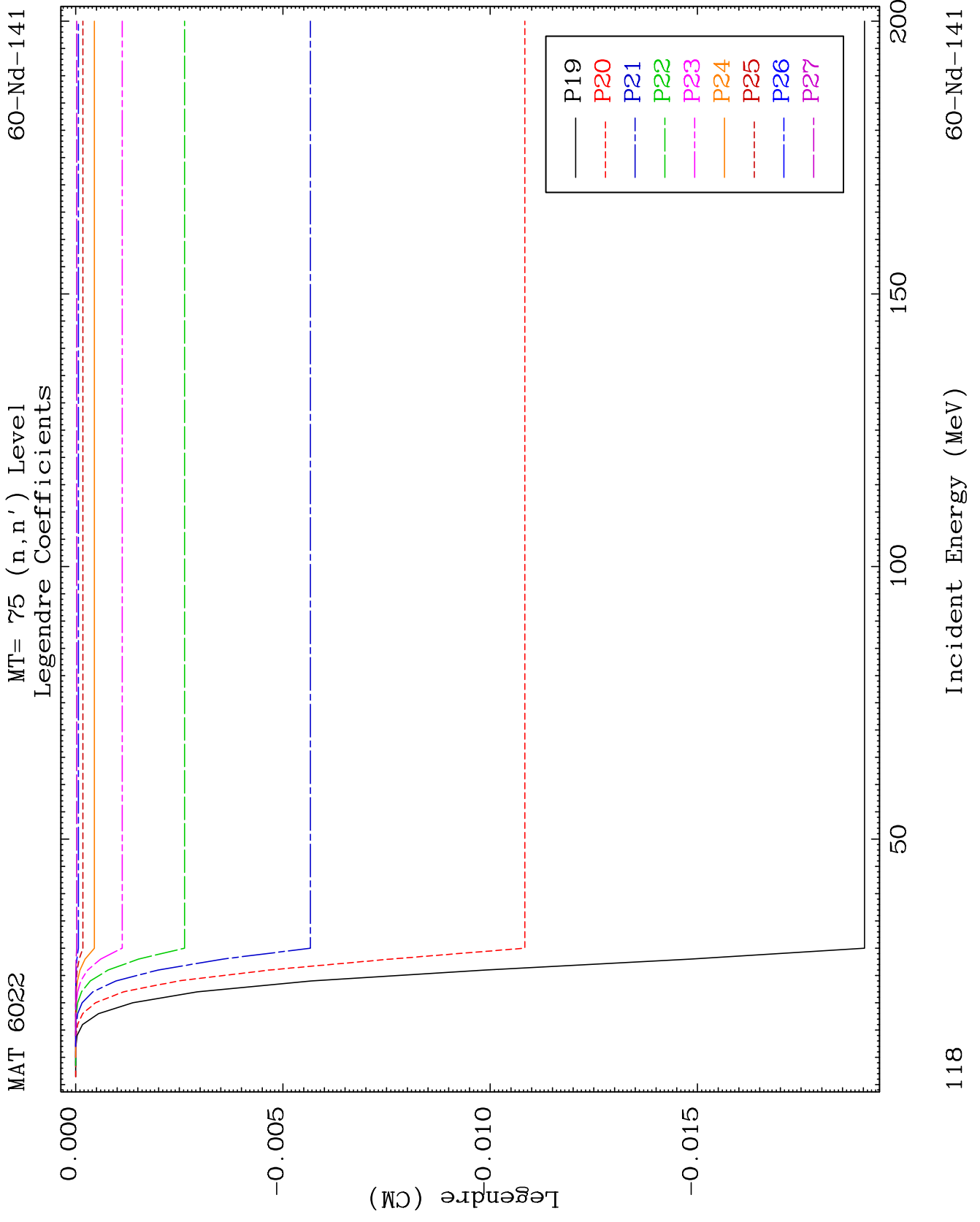
60-Nd-141

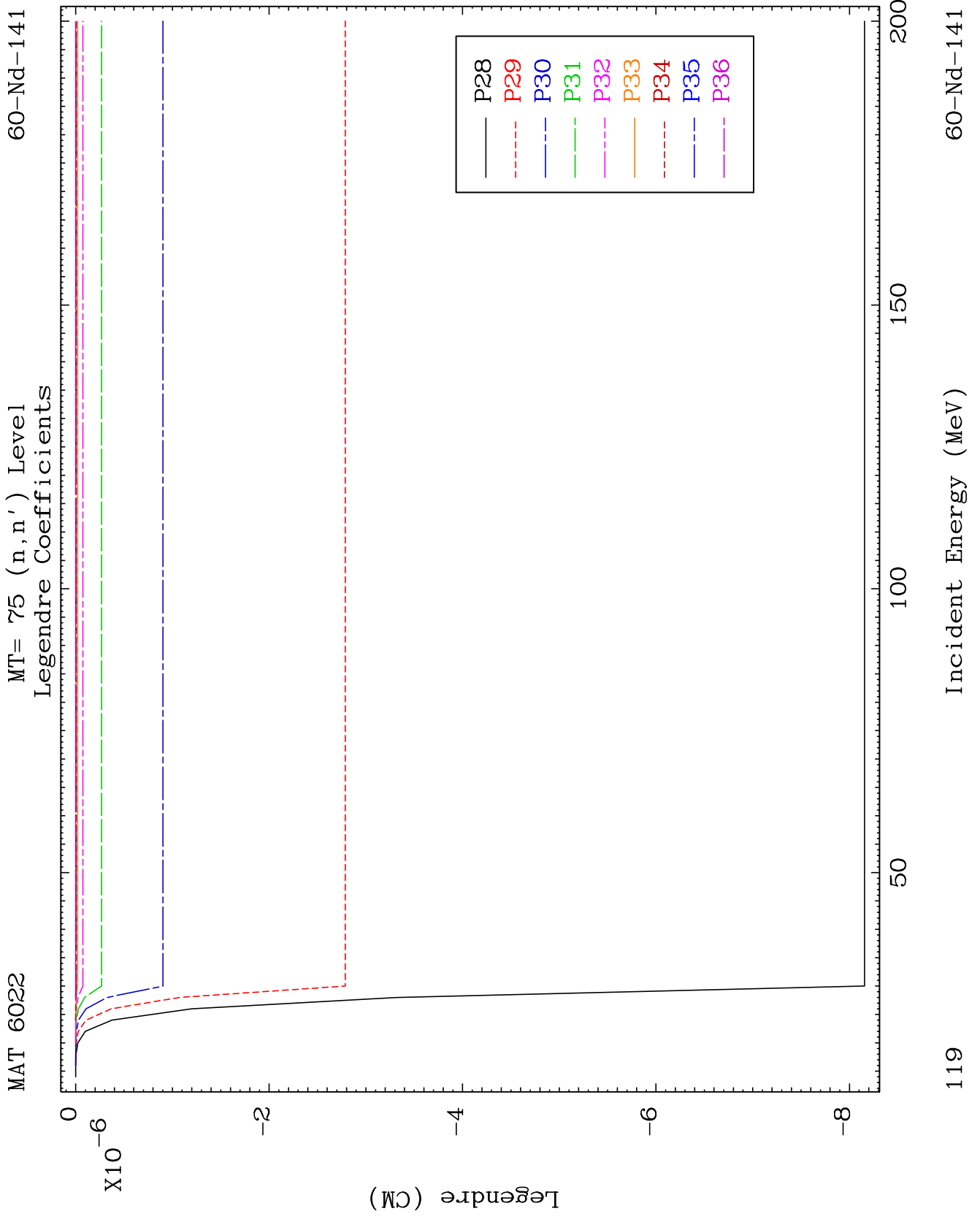


60-Nd-141

Incident Energy (MeV)

117

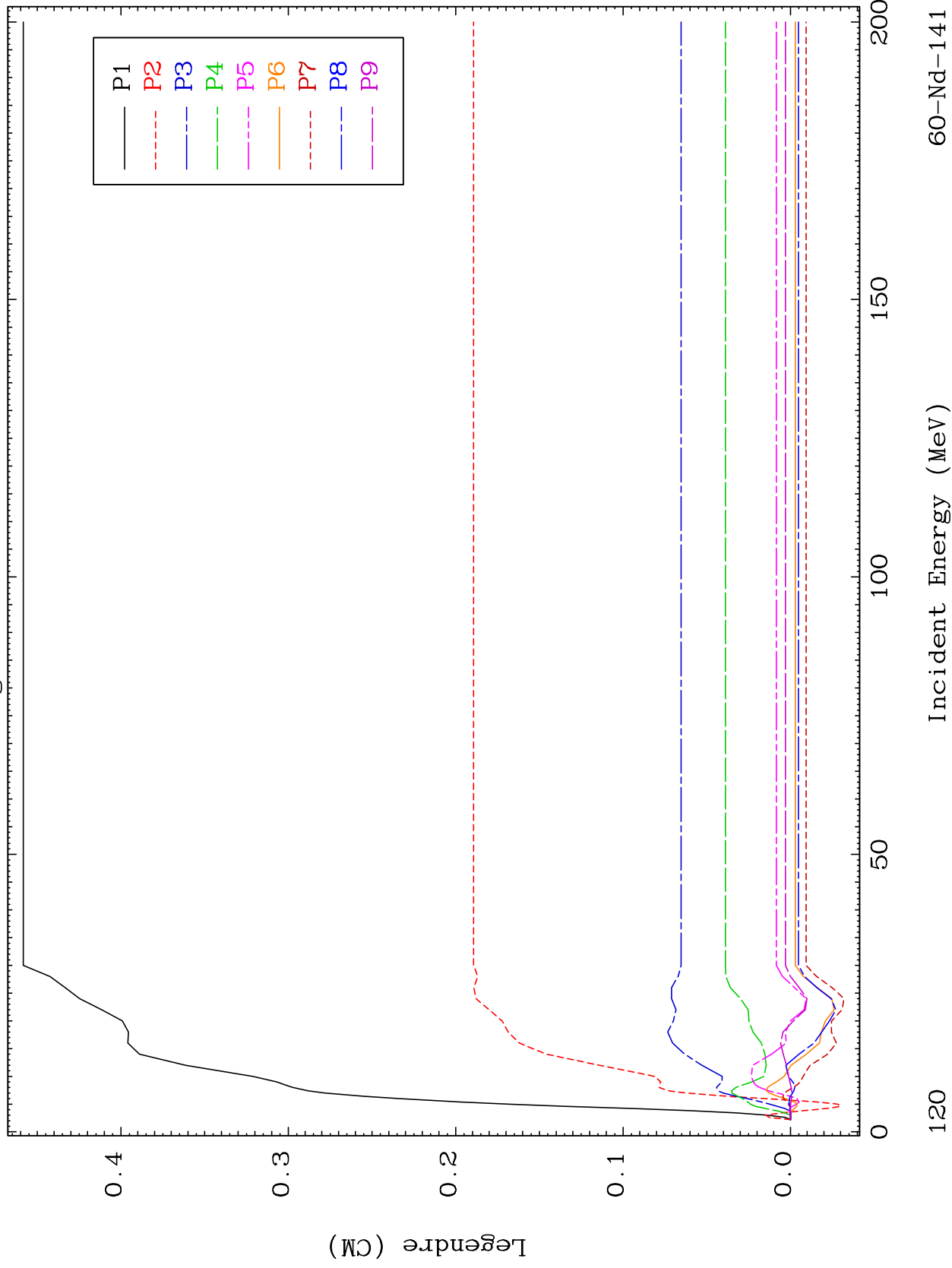


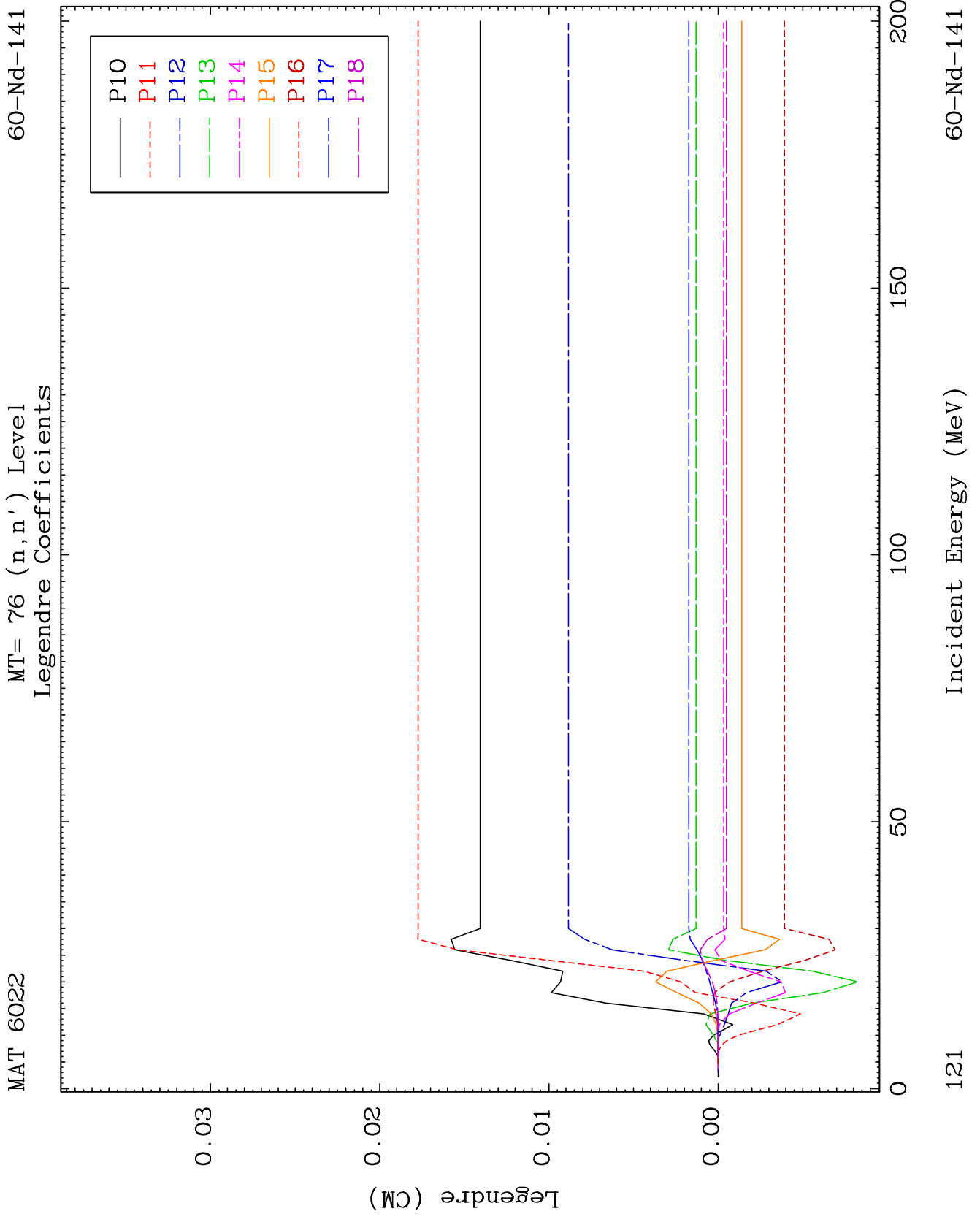


MAT 6022

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

60-Nd-141

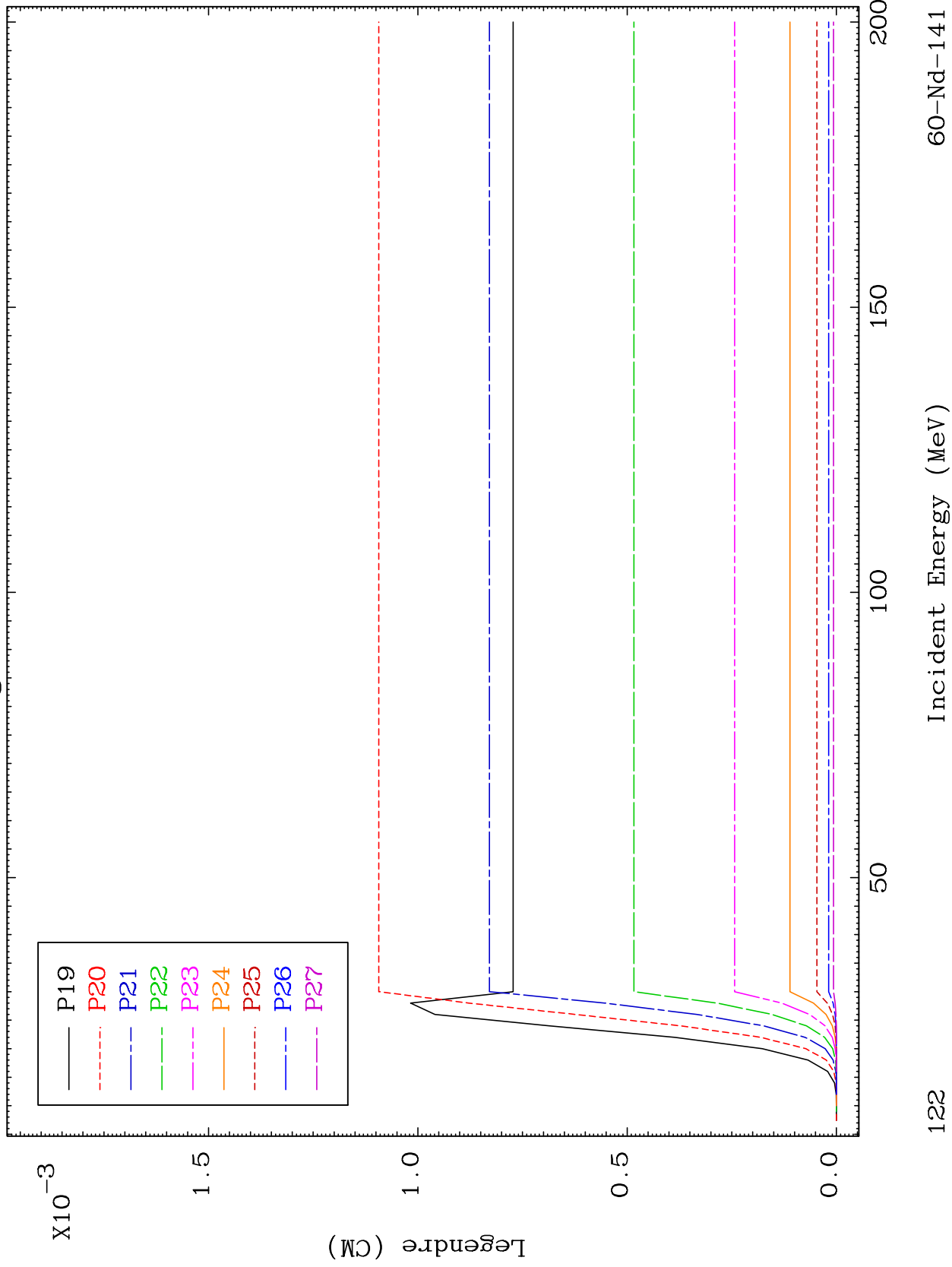




MAT 6022

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

60-Nd-141

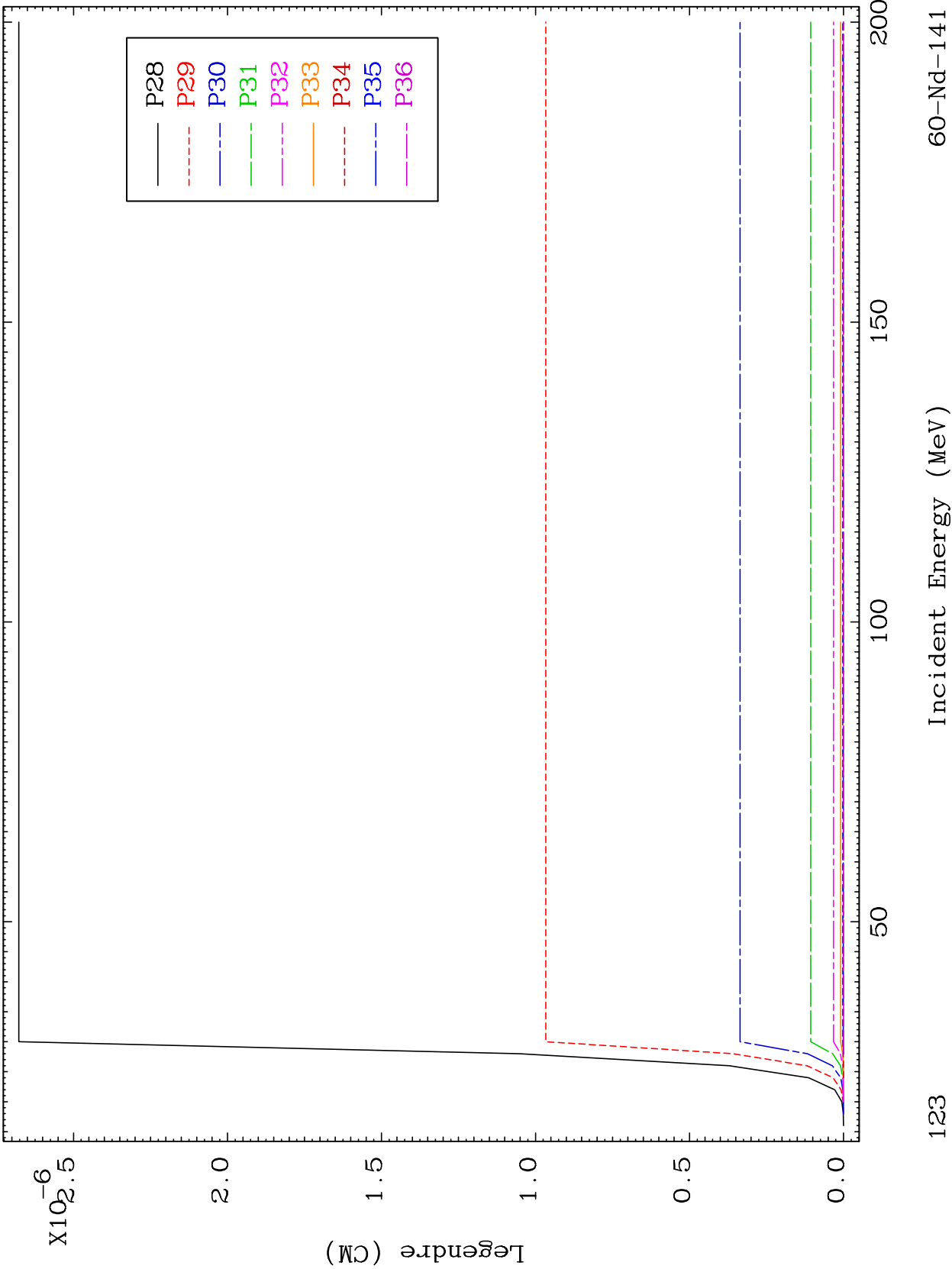


122

MAT 6022

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

60-Nd-141

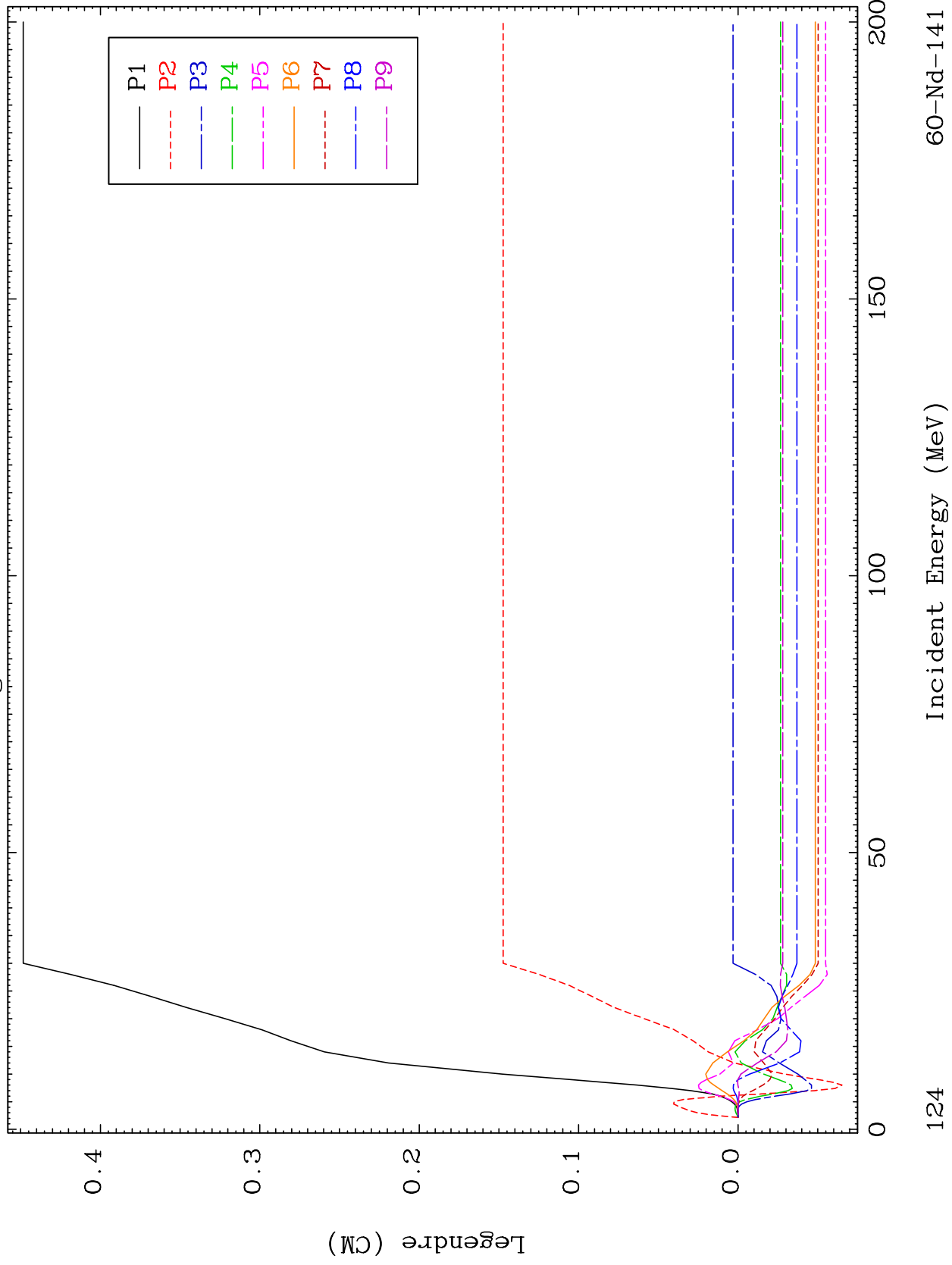


123

MAT 6022

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

60-Nd-141



60-Nd-141

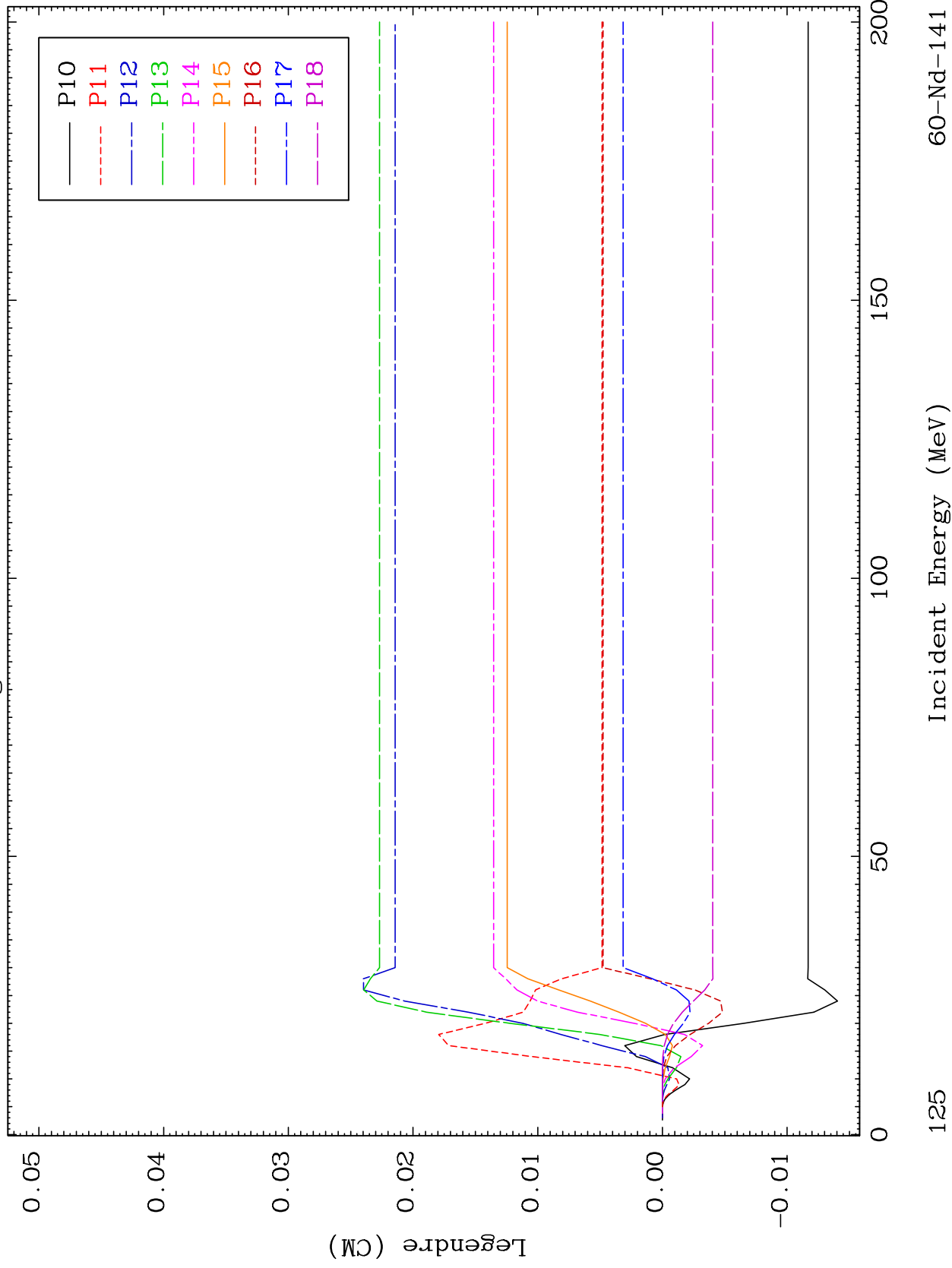
Incident Energy (MeV)

124

MAT 6022

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

60-Nd-141



60-Nd-141

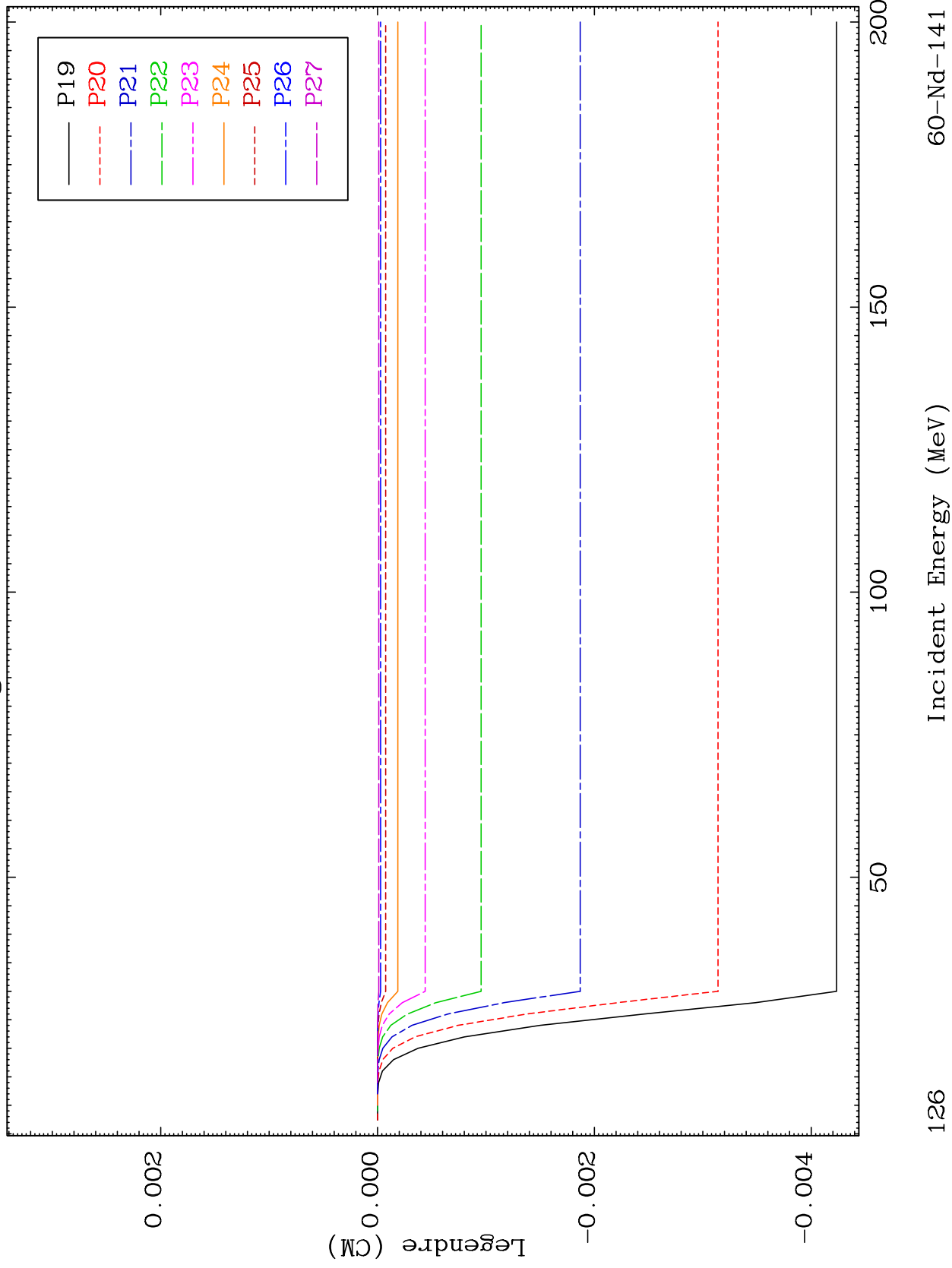
Incident Energy (MeV)

125

MAT 6022

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

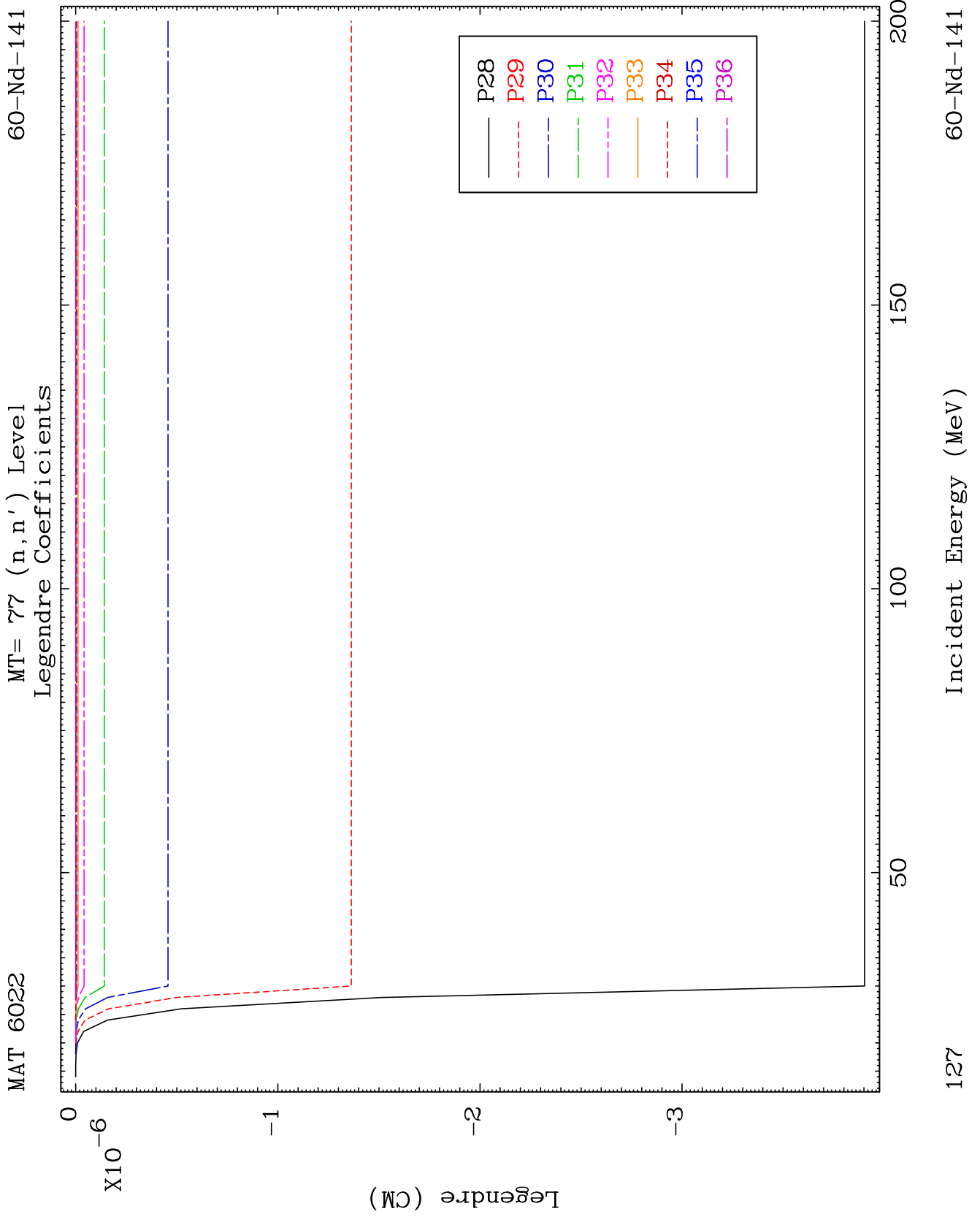
60-Nd-141



126

Incident Energy (MeV)

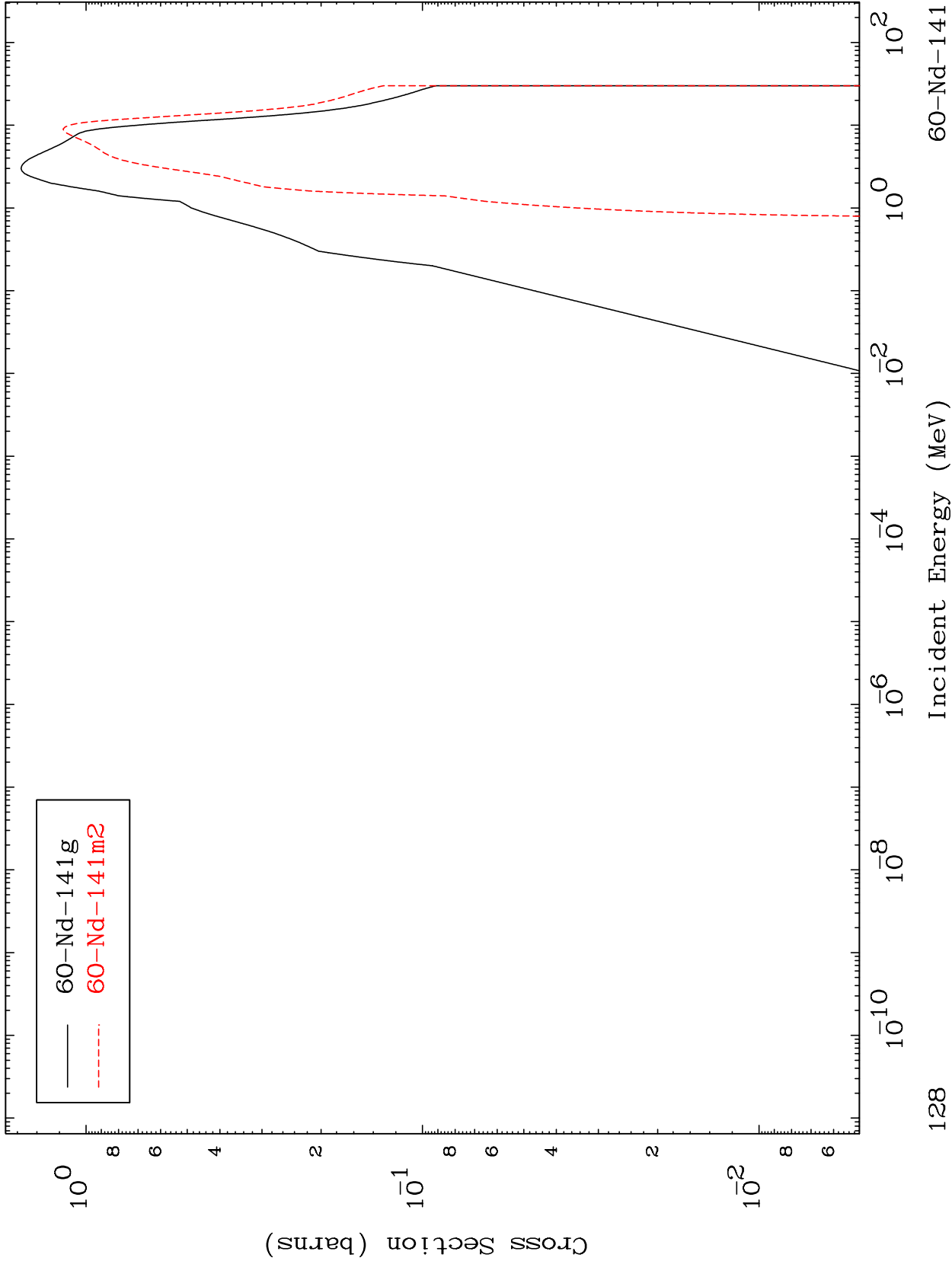
60-Nd-141



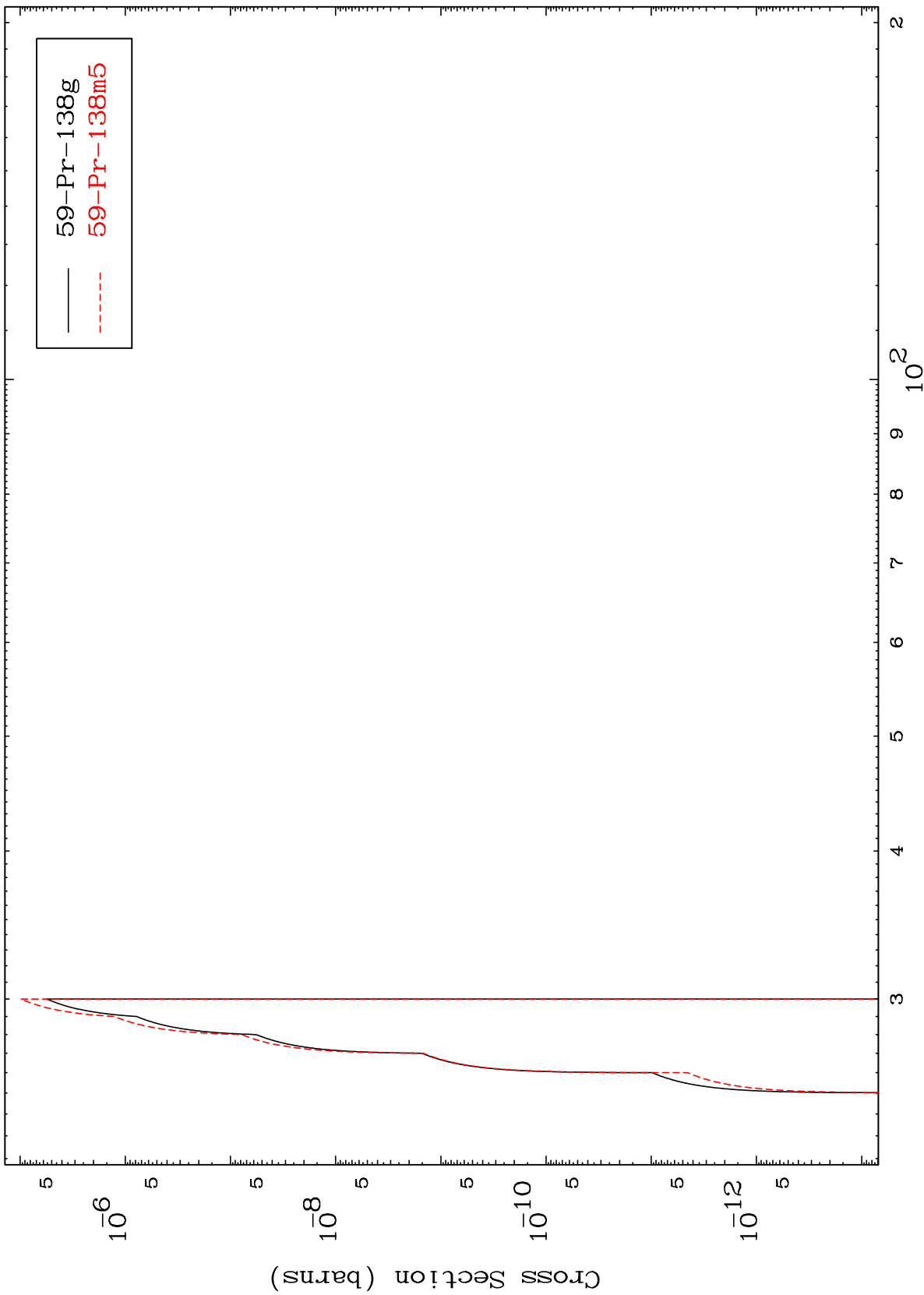
MAT 6022

Inelastic
Radionuclide Production Cross Section

⁶⁰Nd-141



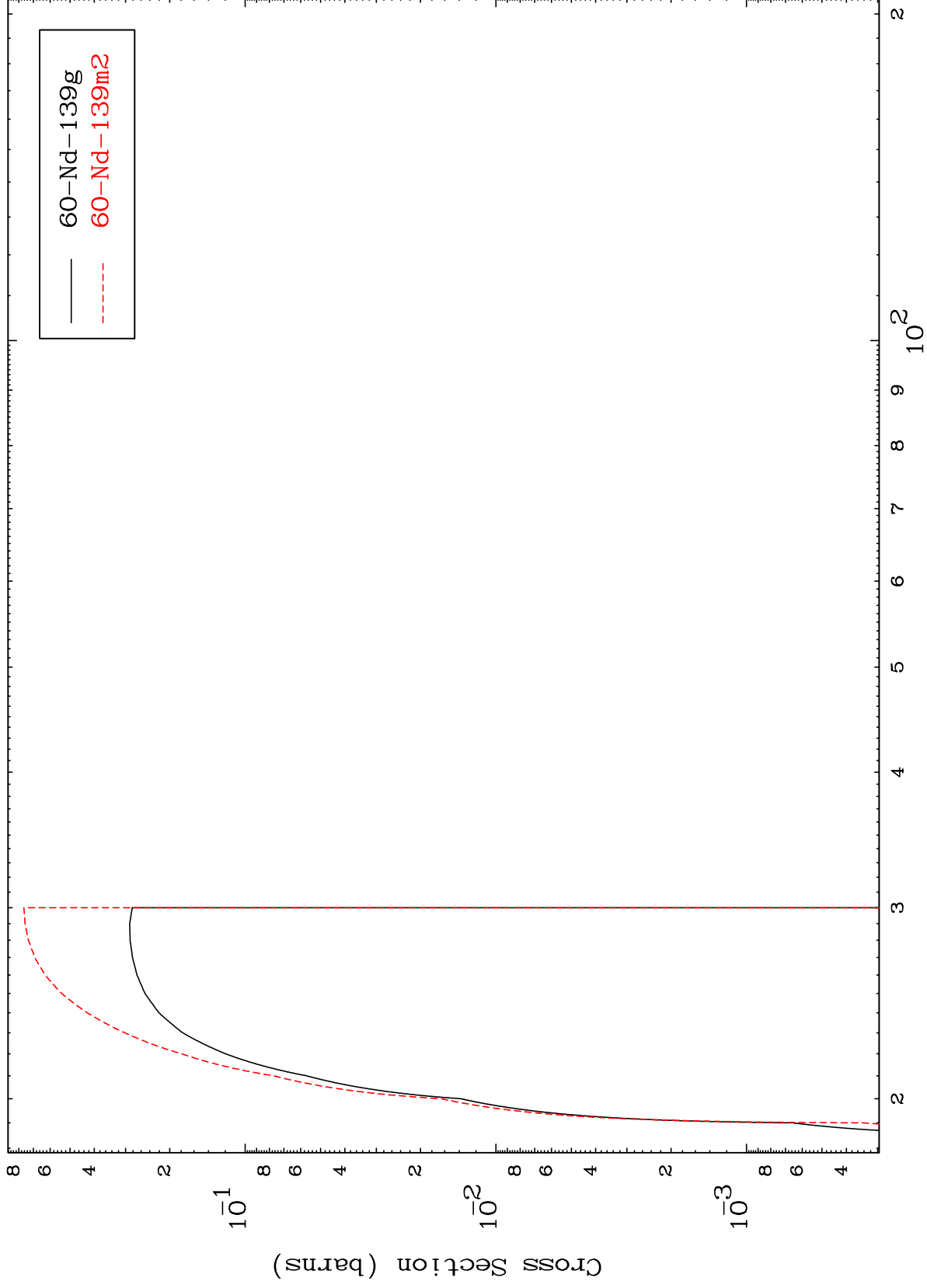
Radionuclide Production Cross Section



MAT 6022

60-Nd-141

(n,3n)
Radionuclide Production Cross Section



130

Incident Energy (MeV)

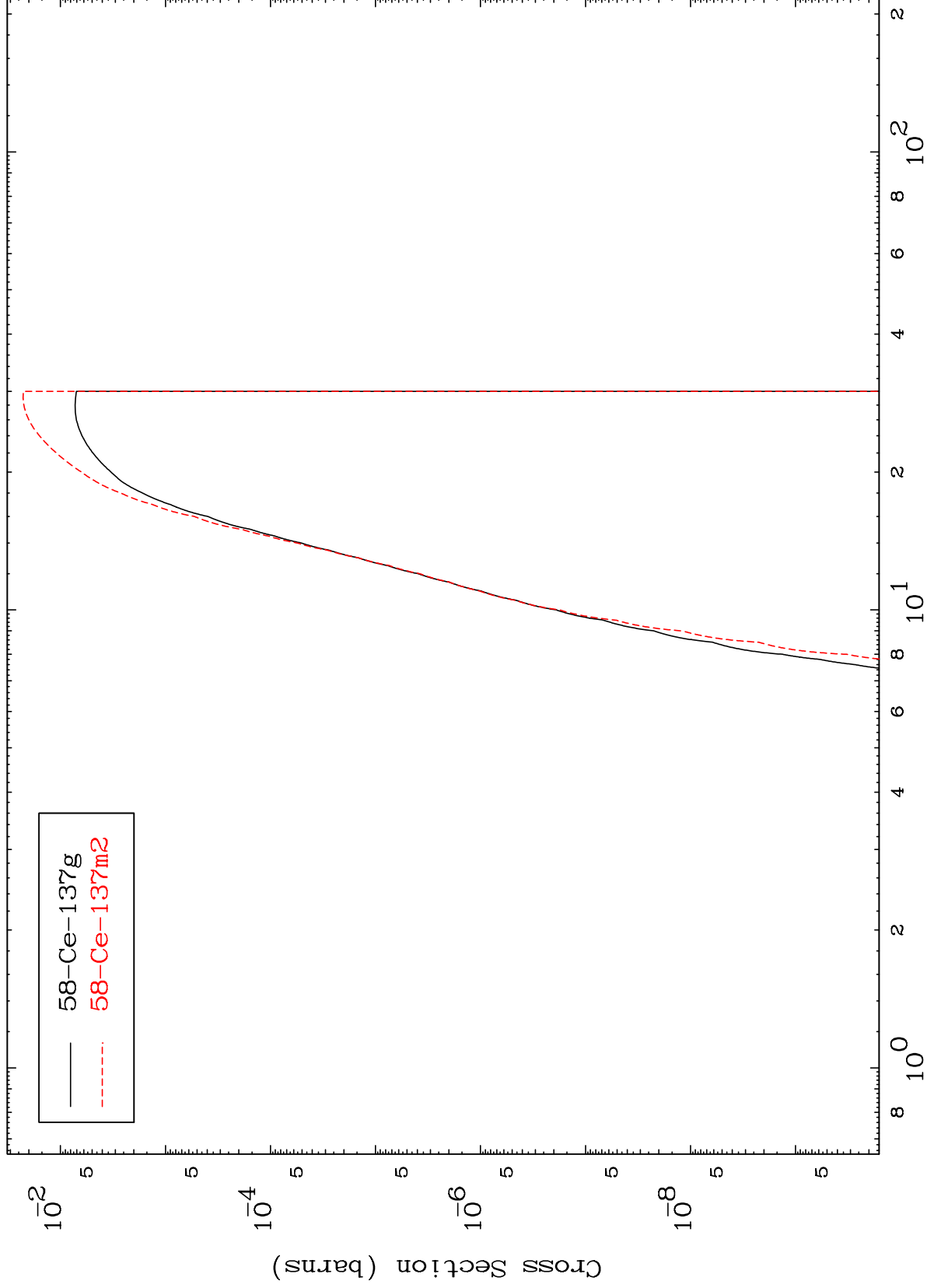
60-Nd-141

MAT 6022

$(n, n') \alpha$

60-Nd-141

Radionuclide Production Cross Section



131

Incident Energy (MeV)

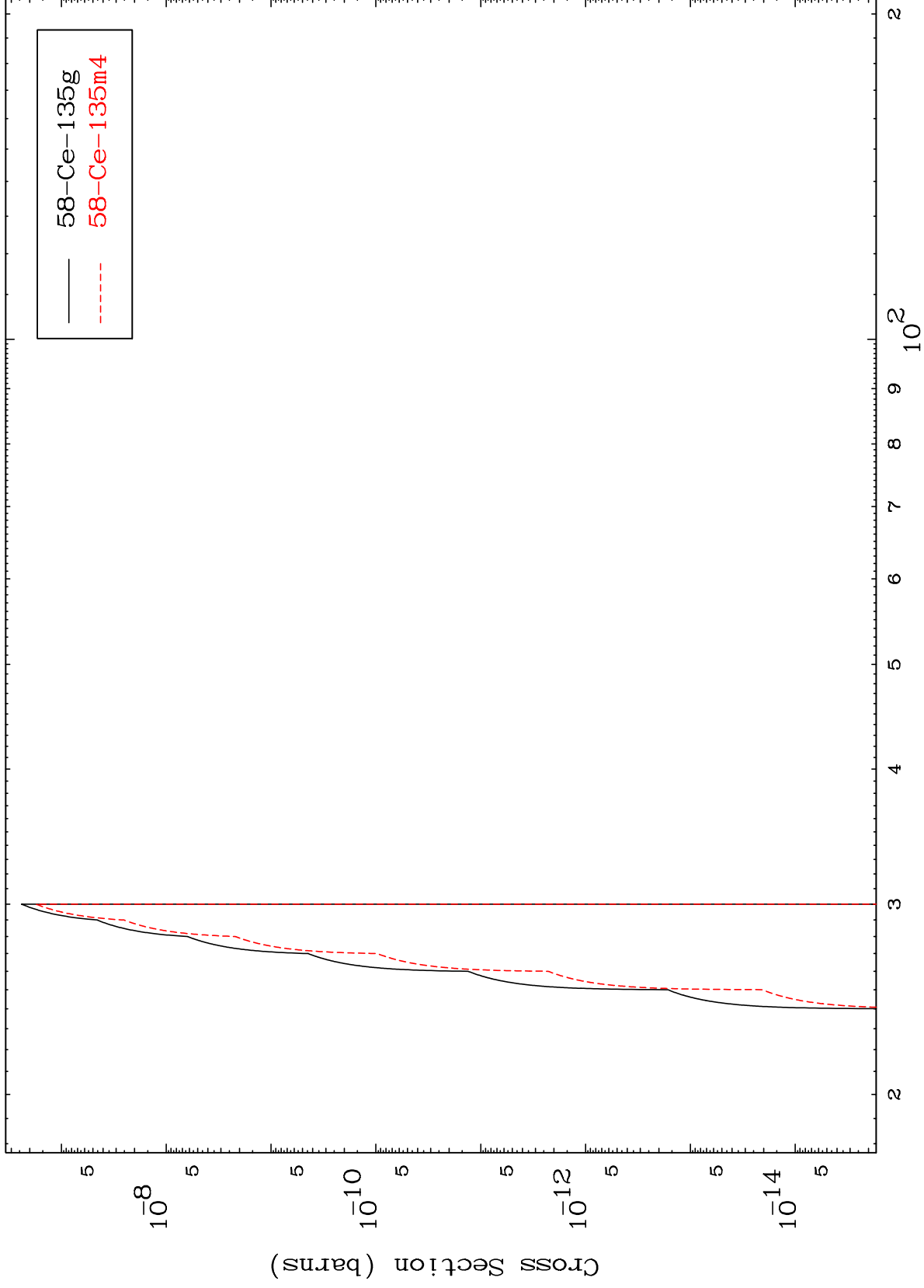
60-Nd-141

MAT 6022

$(n,3n) \alpha$

60-Nd-141

Radionuclide Production Cross Section



132

Incident Energy (MeV)

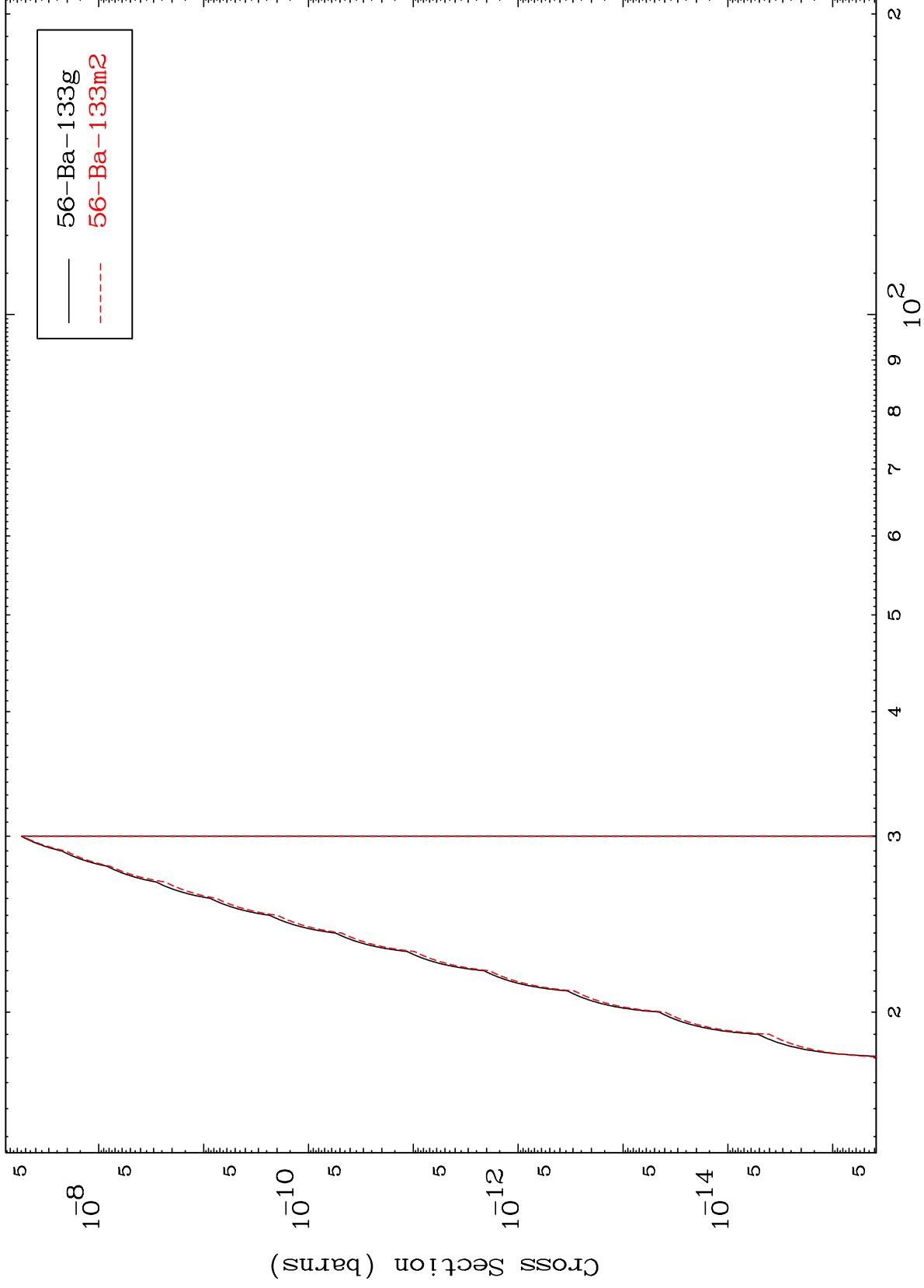
60-Nd-141

MAT 6022

(n,n') 2 α

60-Nd-141

Radionuclide Production Cross Section

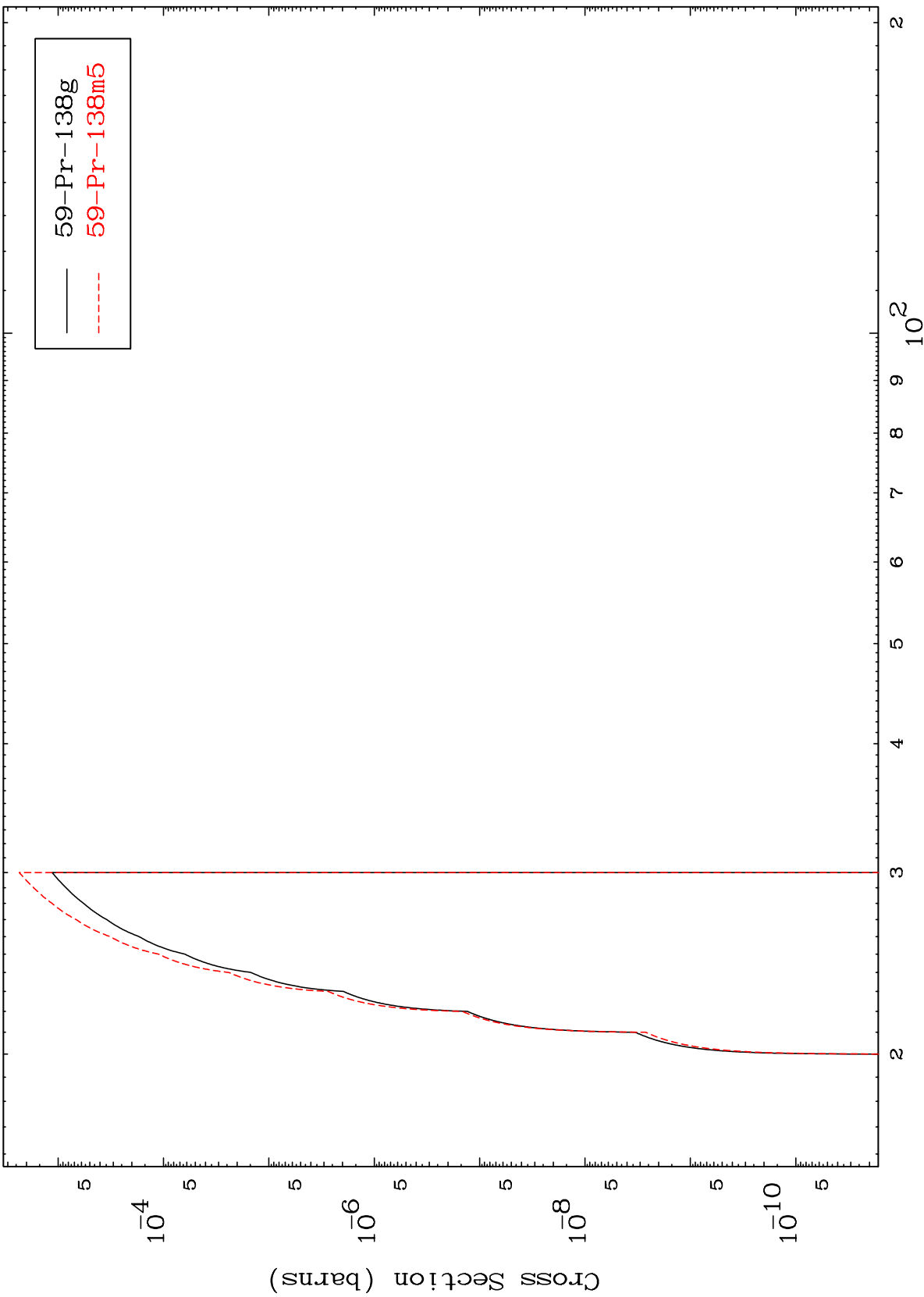


133

Incident Energy (MeV)

60-Nd-141

Radionuclide Production Cross Section

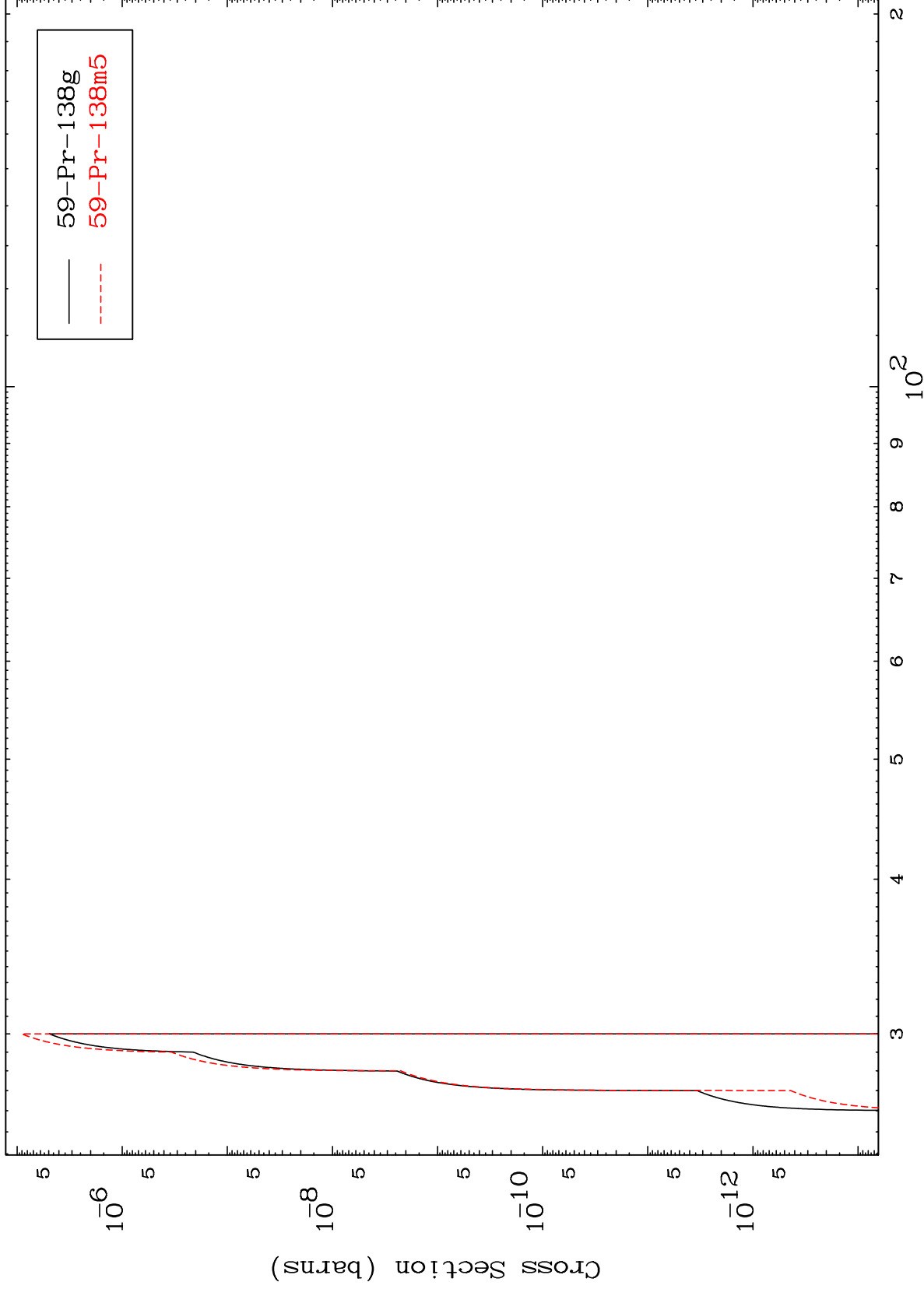


MAT 6022

(n,3n) p

60-Nd-141

Radionuclide Production Cross Section



135

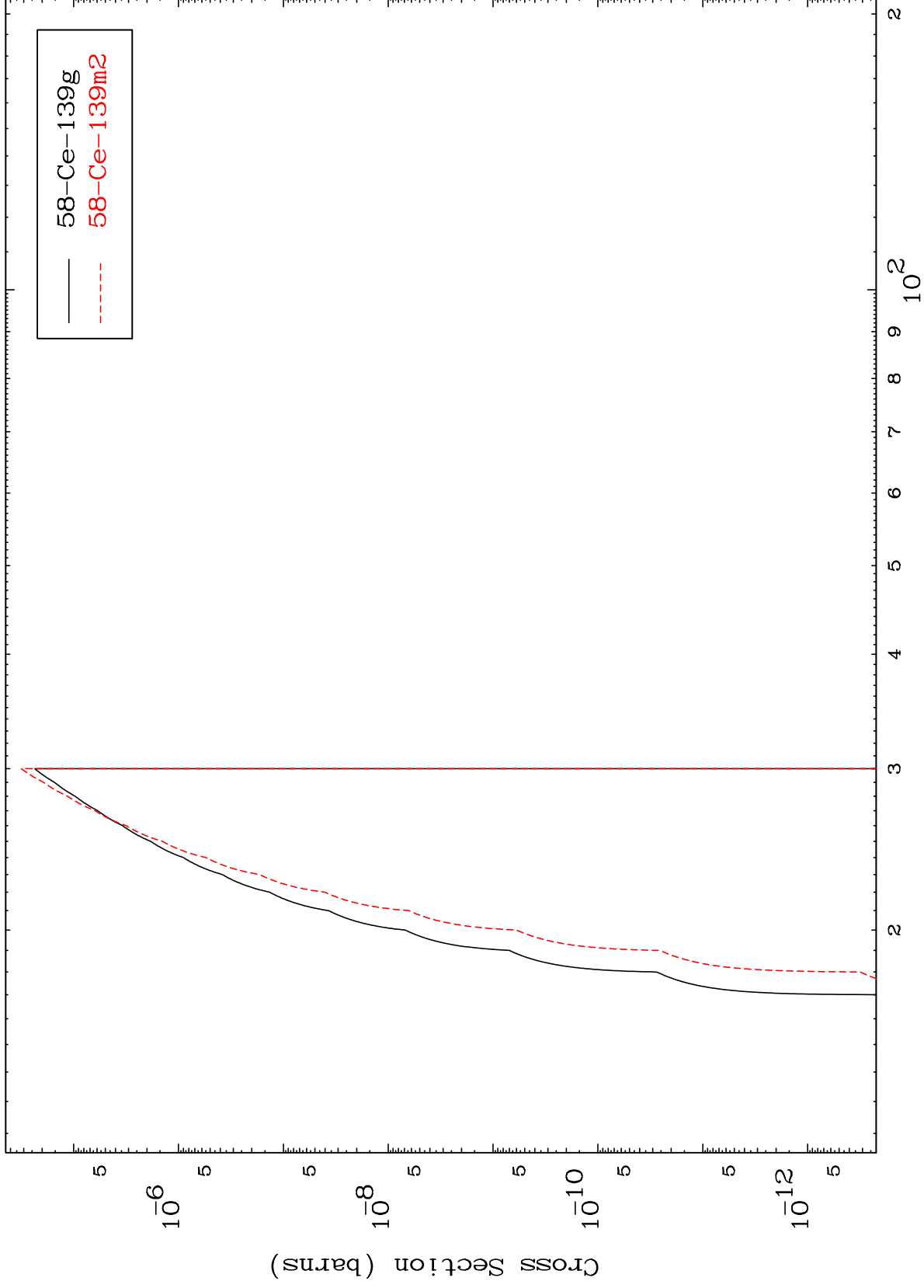
Incident Energy (MeV)

60-Nd-141

MAT 6022

60-Nd-141

(n,2n) p
Radionuclide Production Cross Section



136

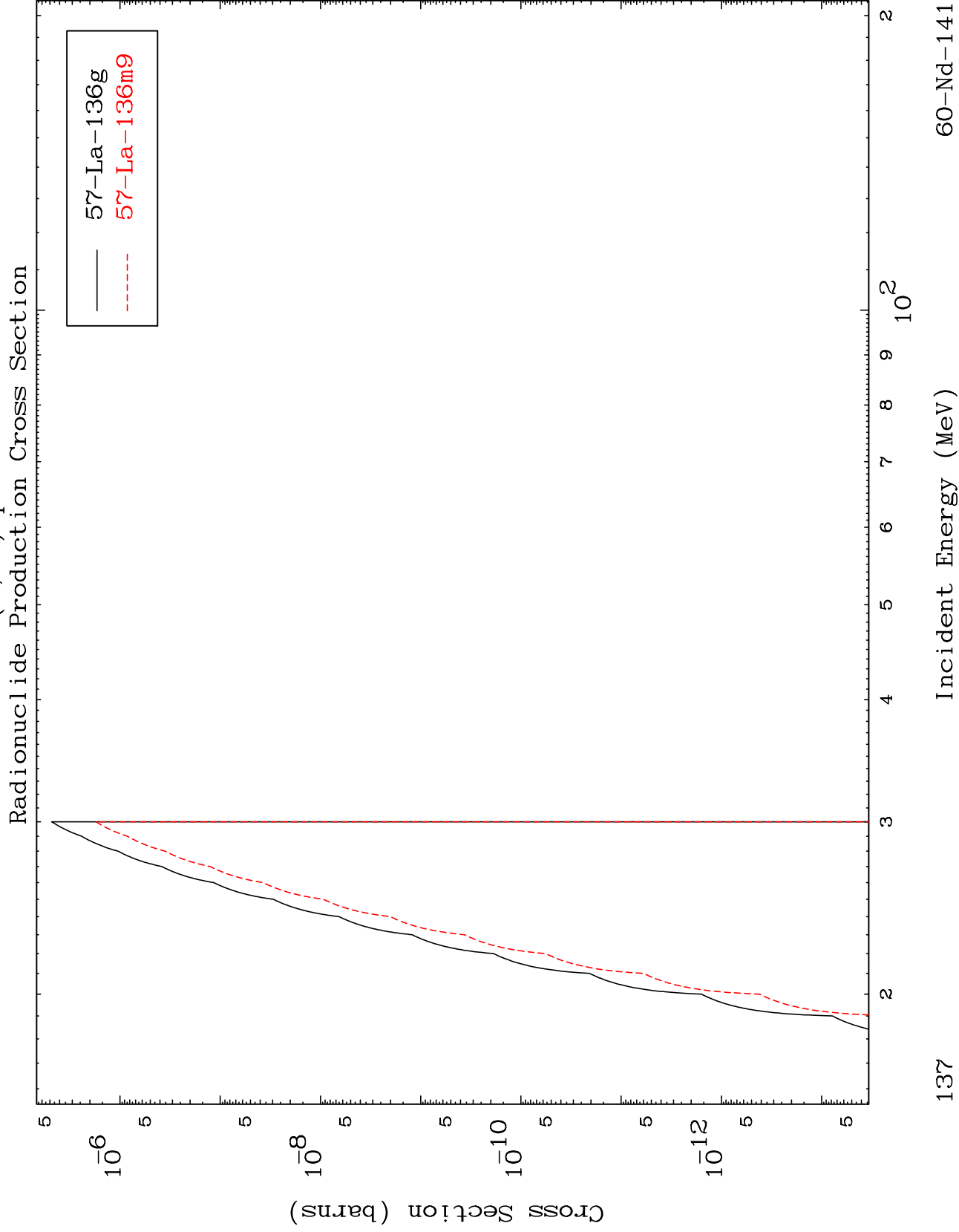
Incident Energy (MeV)

60-Nd-141

MAT 6022

(n,n') p α

60-Nd-141



137

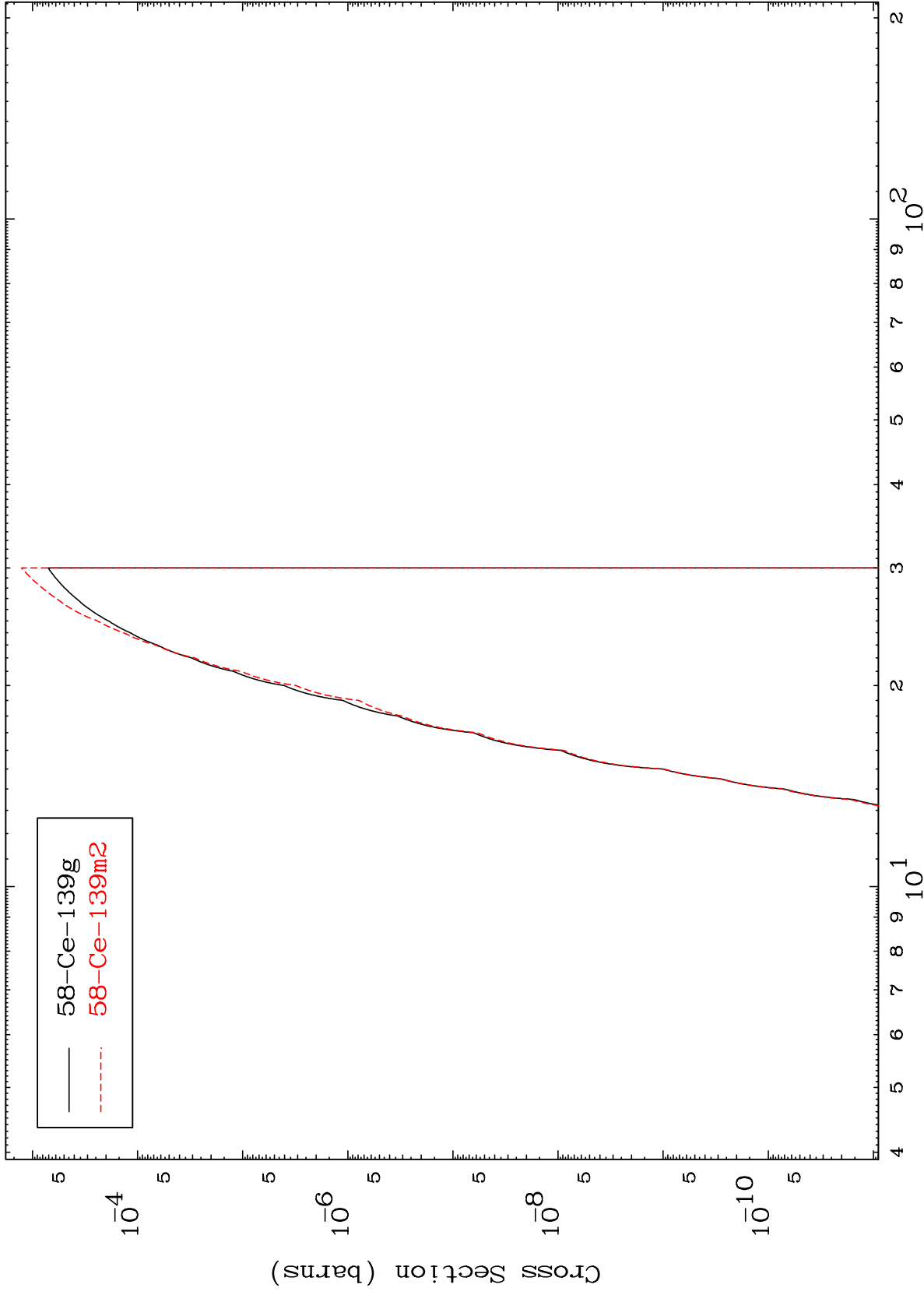
60-Nd-141

MAT 6022

(n,He-3)

60-Nd-141

Radionuclide Production Cross Section



138

Incident Energy (MeV)

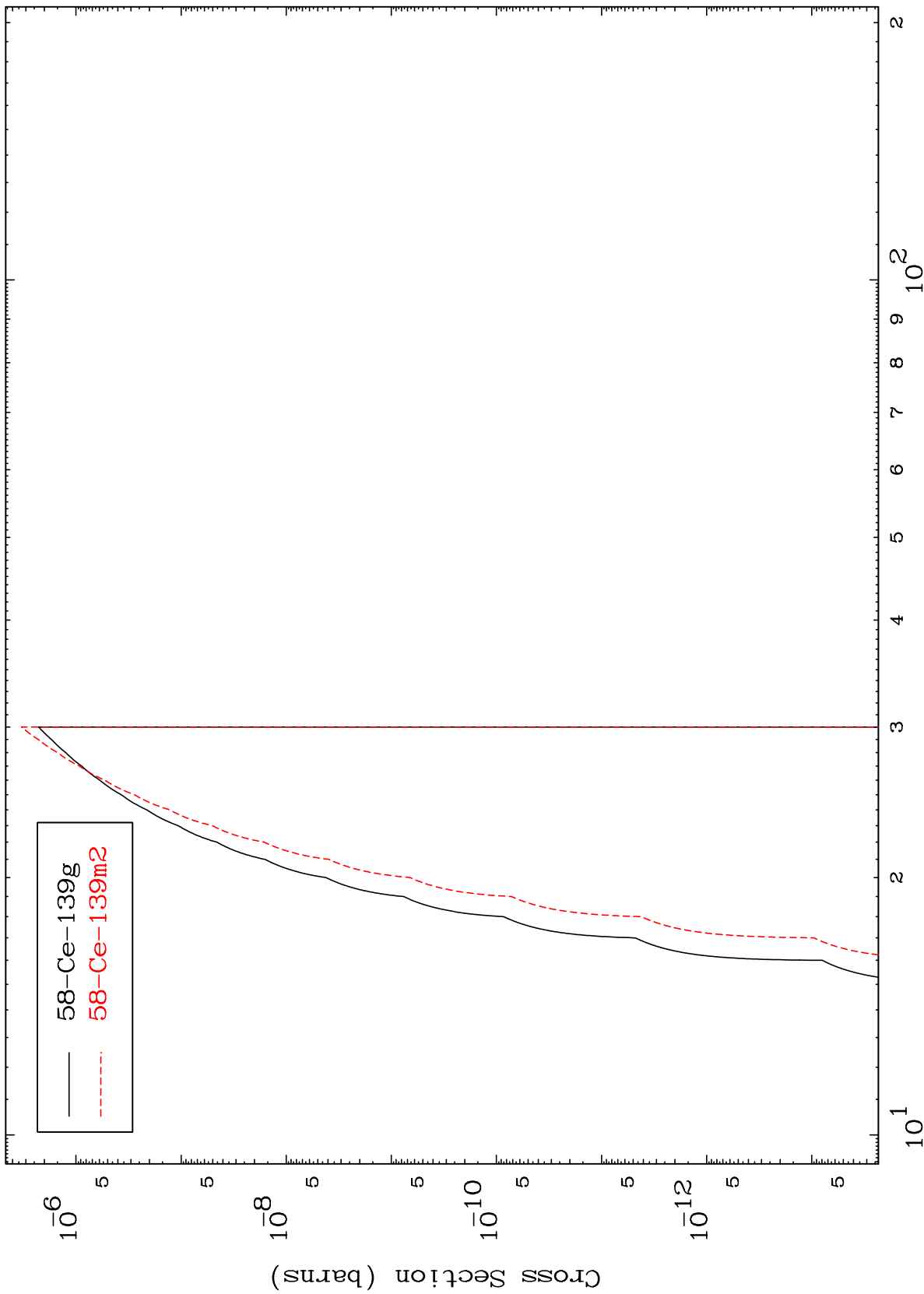
60-Nd-141

MAT 6022

(n,p) d

60-Nd-141

Radionuclide Production Cross Section



58-Ce-139g
58-Ce-139m2

Incident Energy (MeV)

60-Nd-141

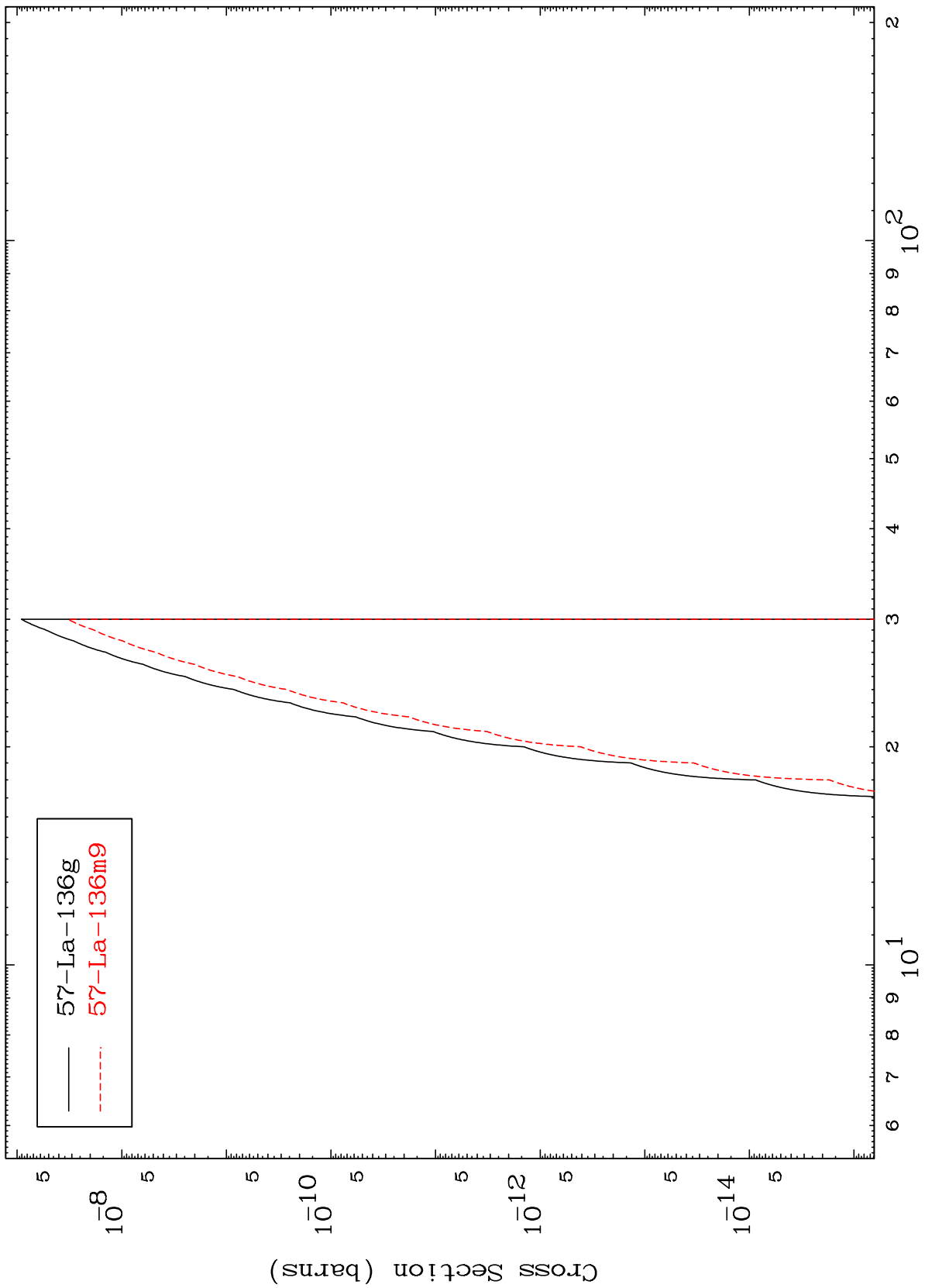
139

MAT 6022

(n,d) α

60-Nd-141

Radionuclide Production Cross Section



— 57-La-136g
- - - 57-La-136m9

140

Incident Energy (MeV)

60-Nd-141