

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

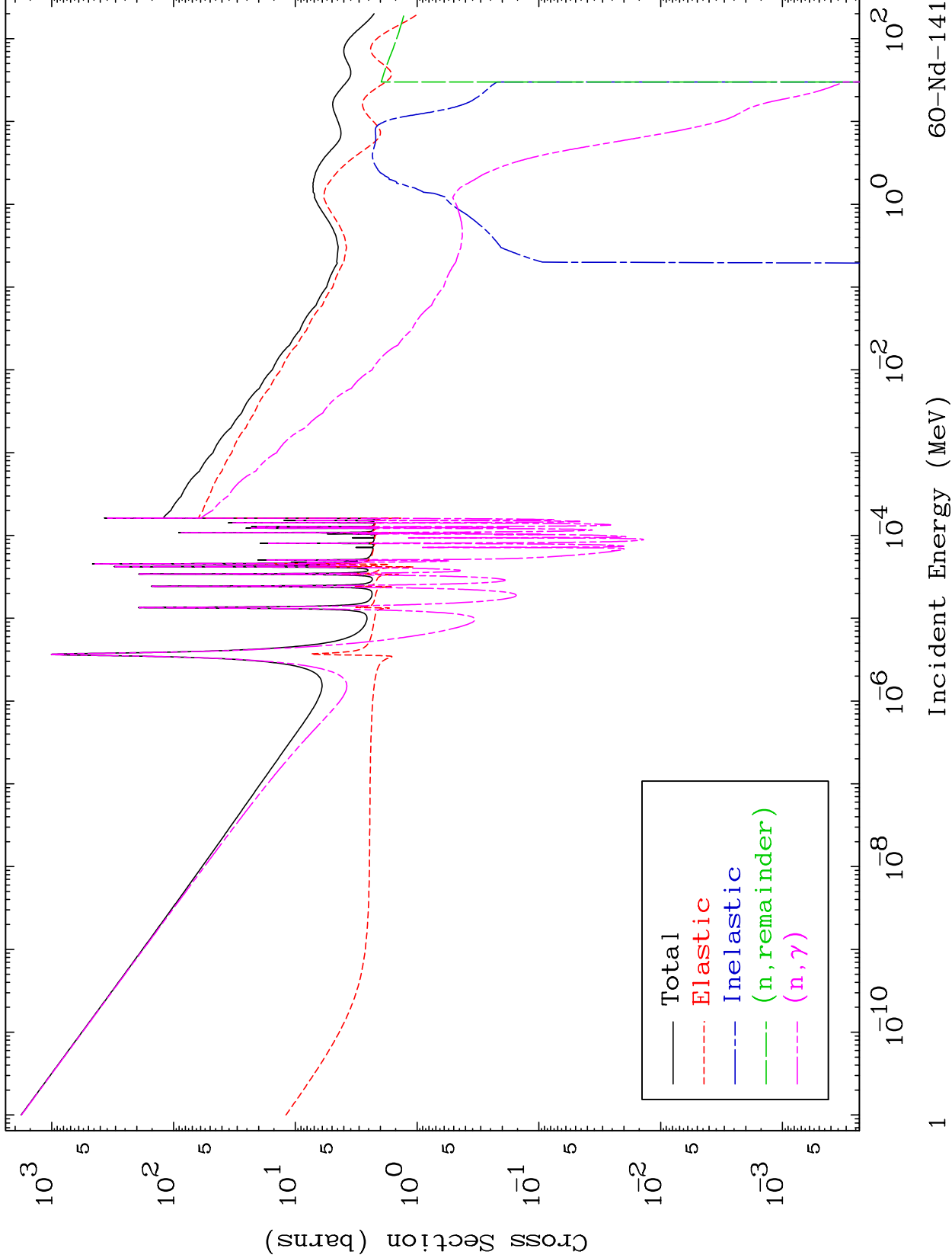
Press Mouse Button to Start

MAT 6022

Major

293 Kelvin Cross Sections

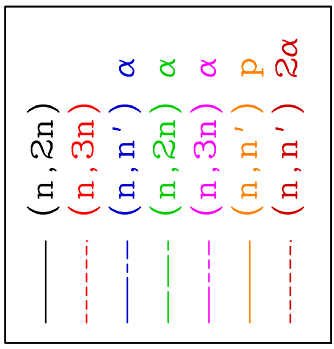
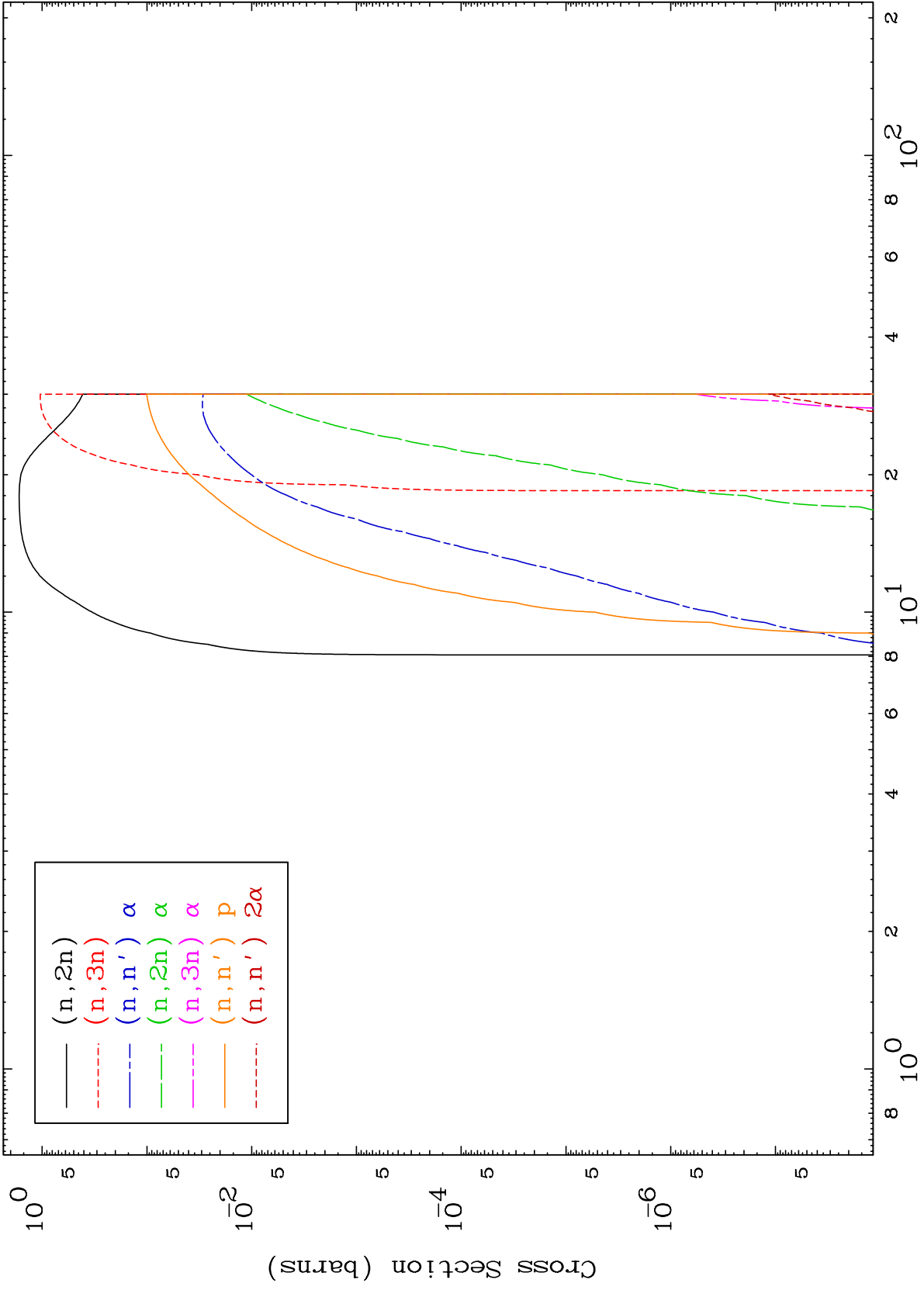
60-Nd-141



MAT 6022

Neutron Production
293 Kelvin Cross Sections

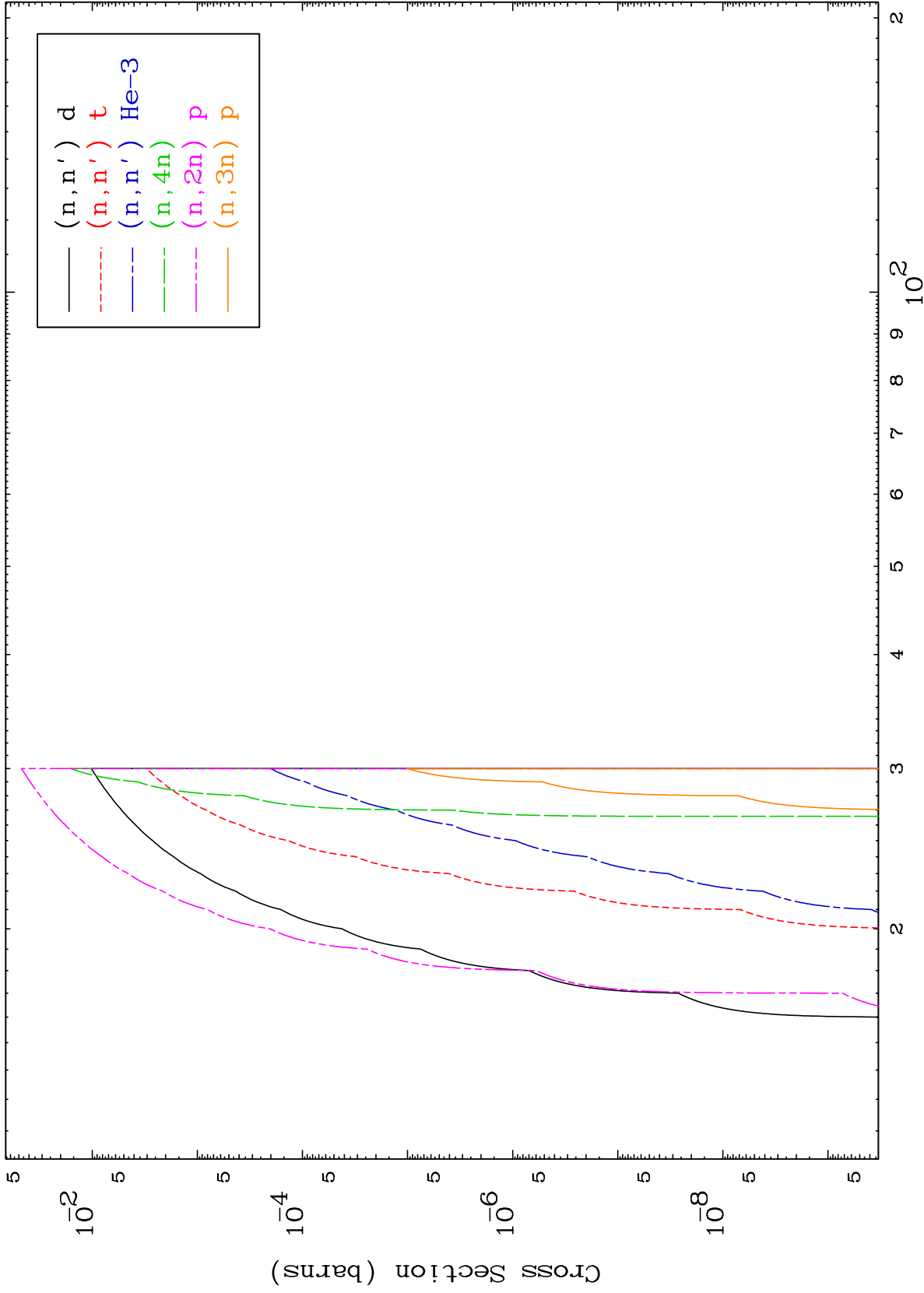
60-Nd-141



2

Incident Energy (MeV)

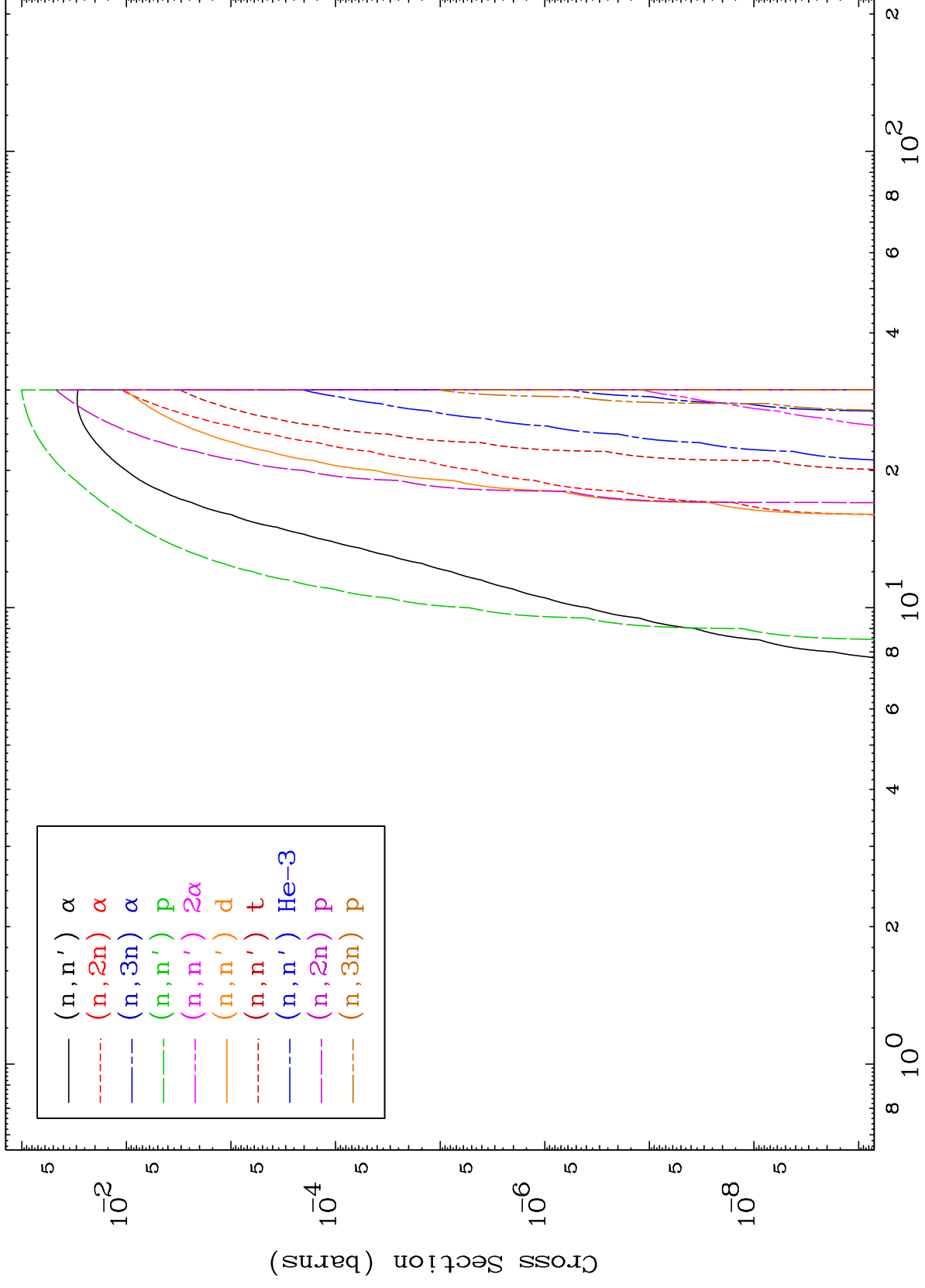
60-Nd-141



MAT 6022

Charged Particle
293 Kelvin Cross Sections

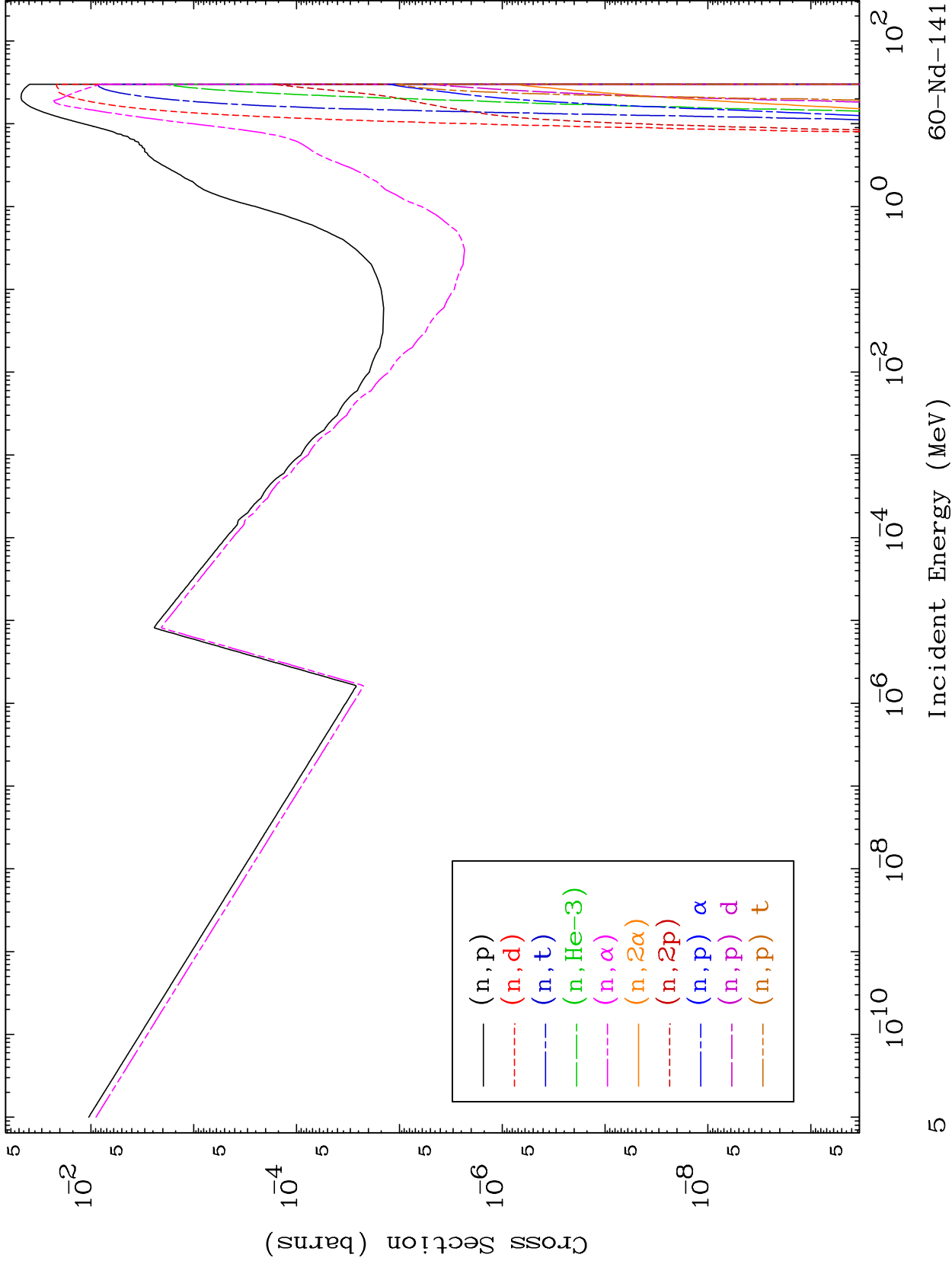
60-Nd-141



MAT 6022

Charged Particle
293 Kelvin Cross Sections

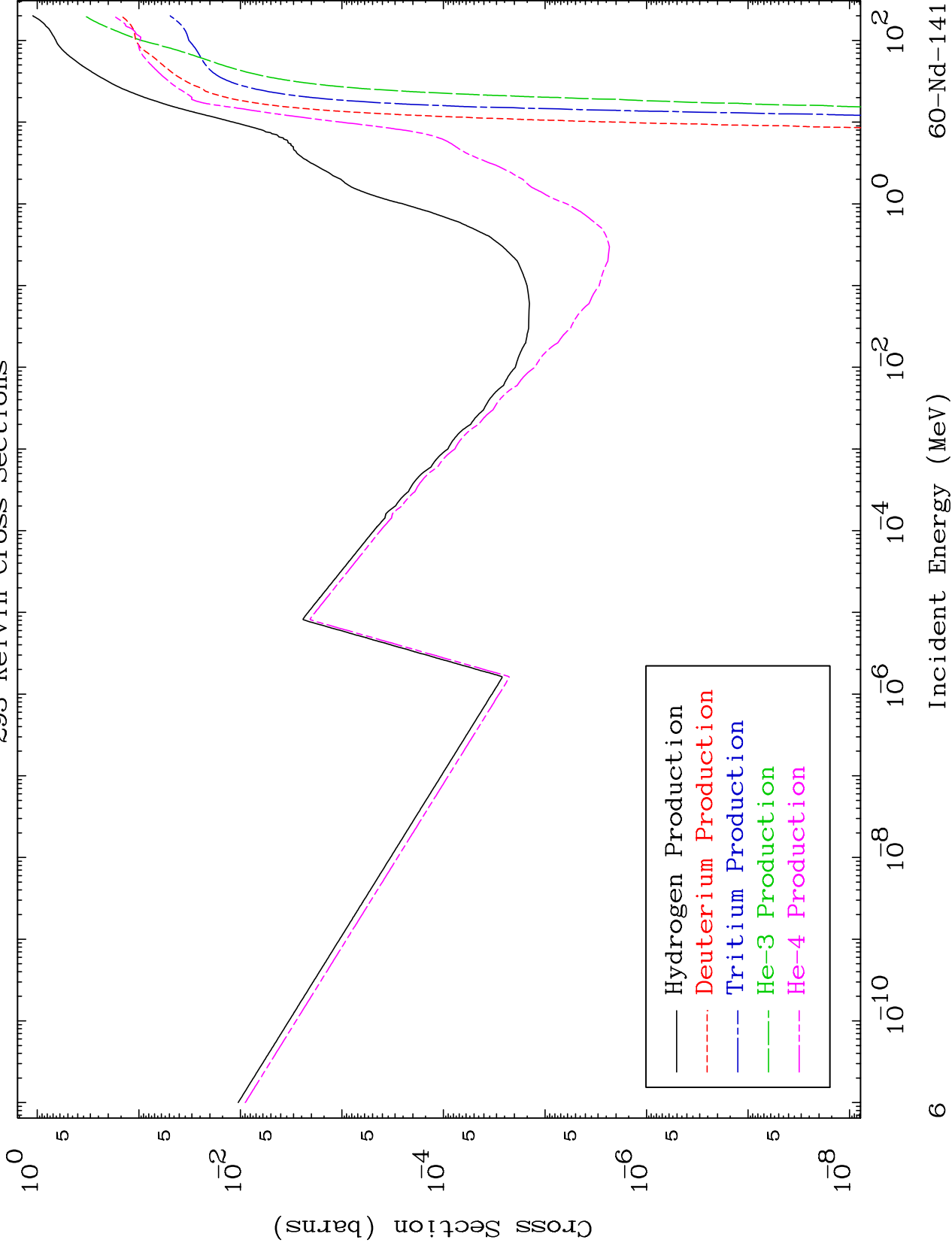
60-Nd-141



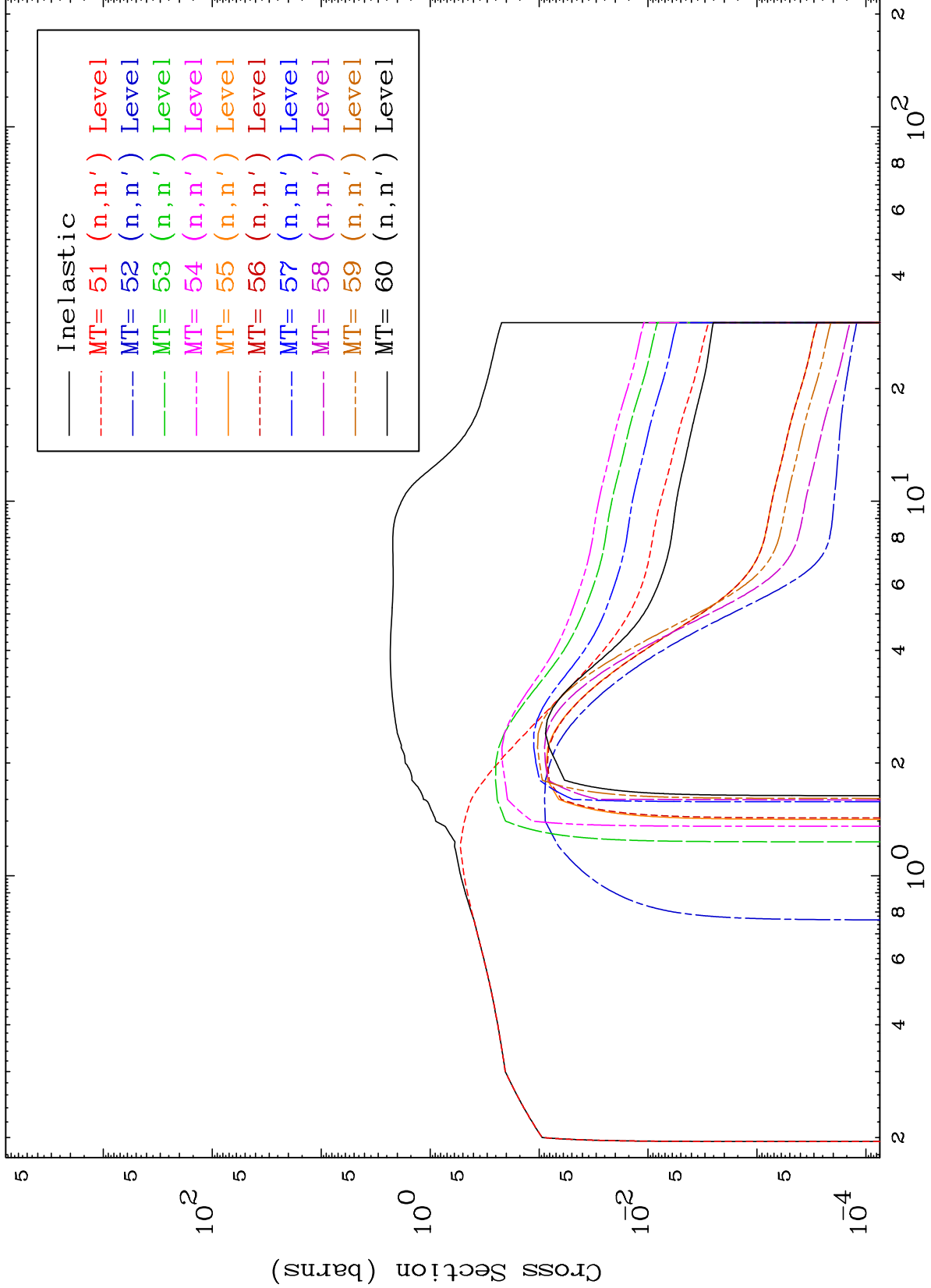
MAT 6022

Particle Production
293 Kelvin Cross Sections

60-Nd-141



293 Kelvin Cross Sections

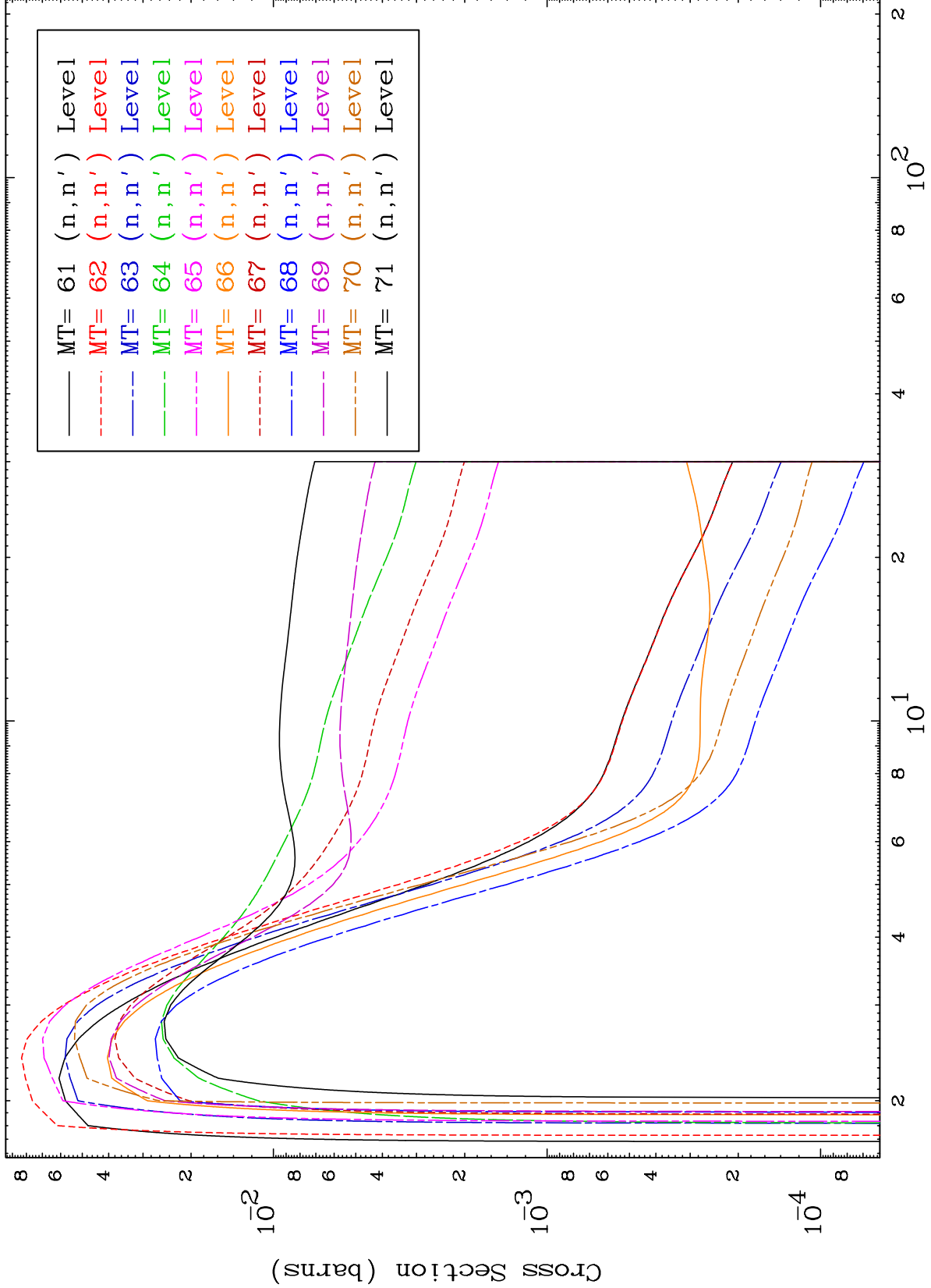


MAT 6022

(n,n') Level

60-Nd-141

293 Kelvin Cross Sections



8

Incident Energy (MeV)

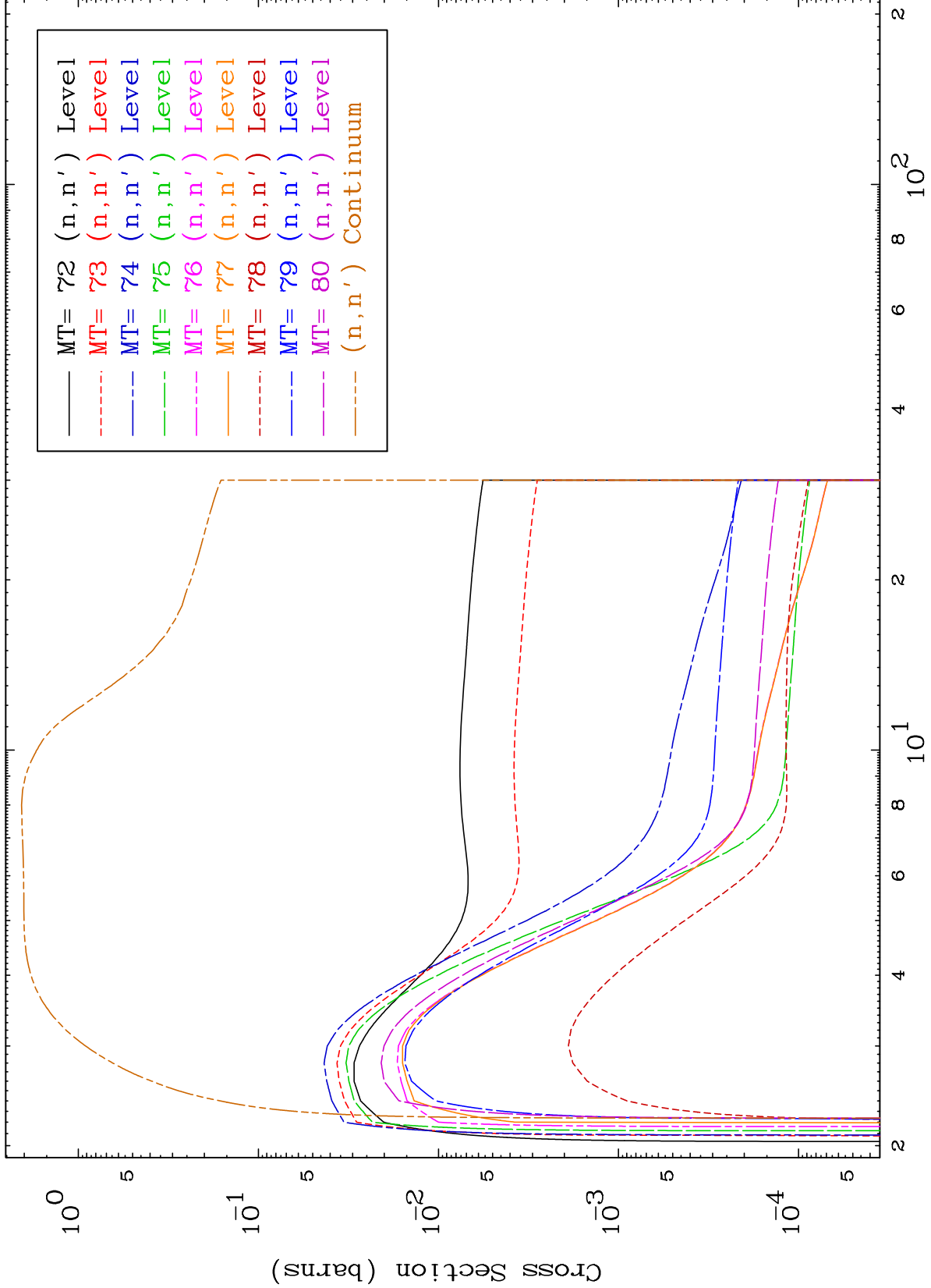
60-Nd-141

MAT 6022

(n,n') Level

60-Nd-141

293 Kelvin Cross Sections



9

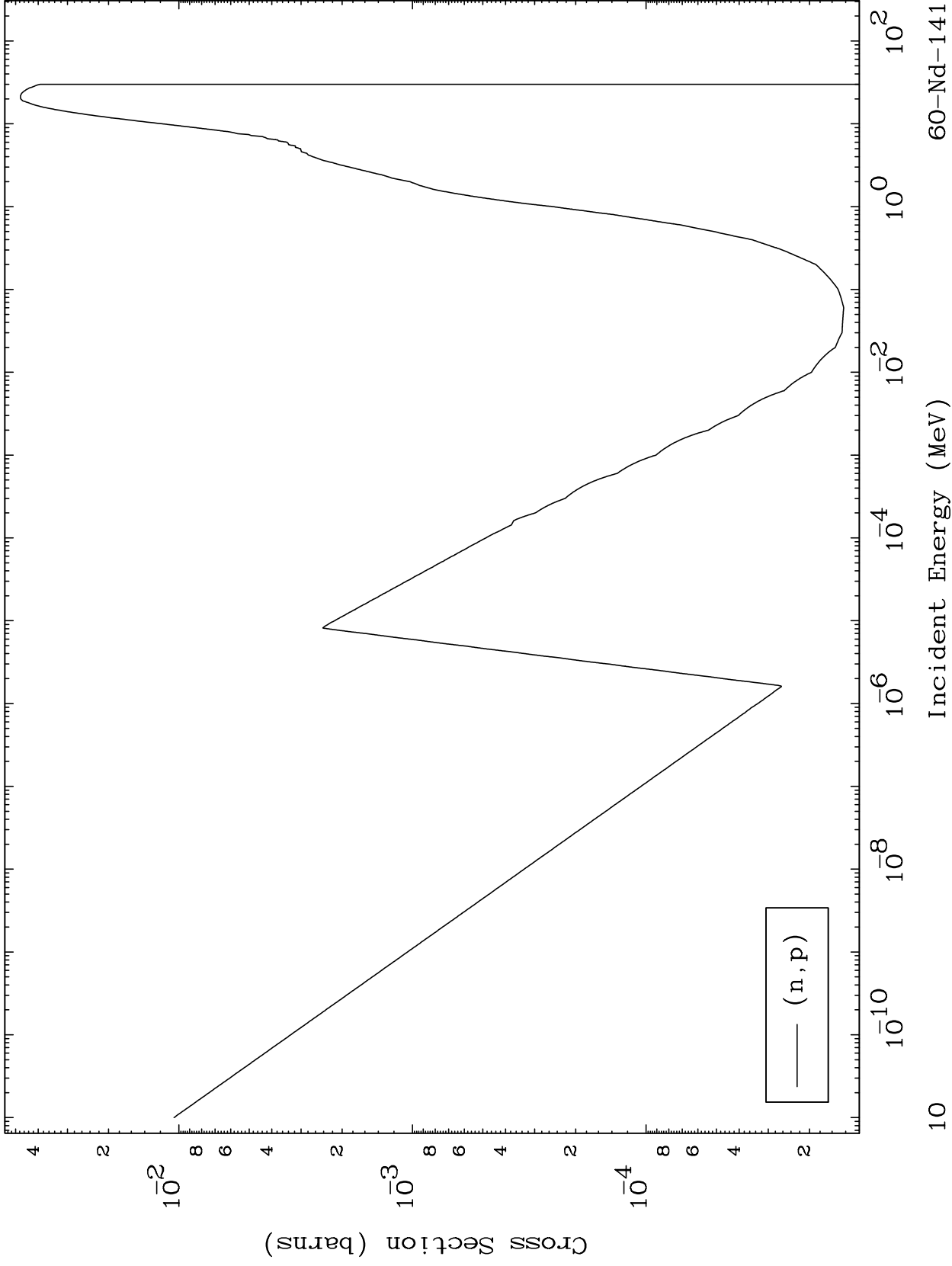
Incident Energy (MeV)

60-Nd-141

MAT 60222

(n,p) Levels
293 Kelvin Cross Sections

60-Nd-141



10

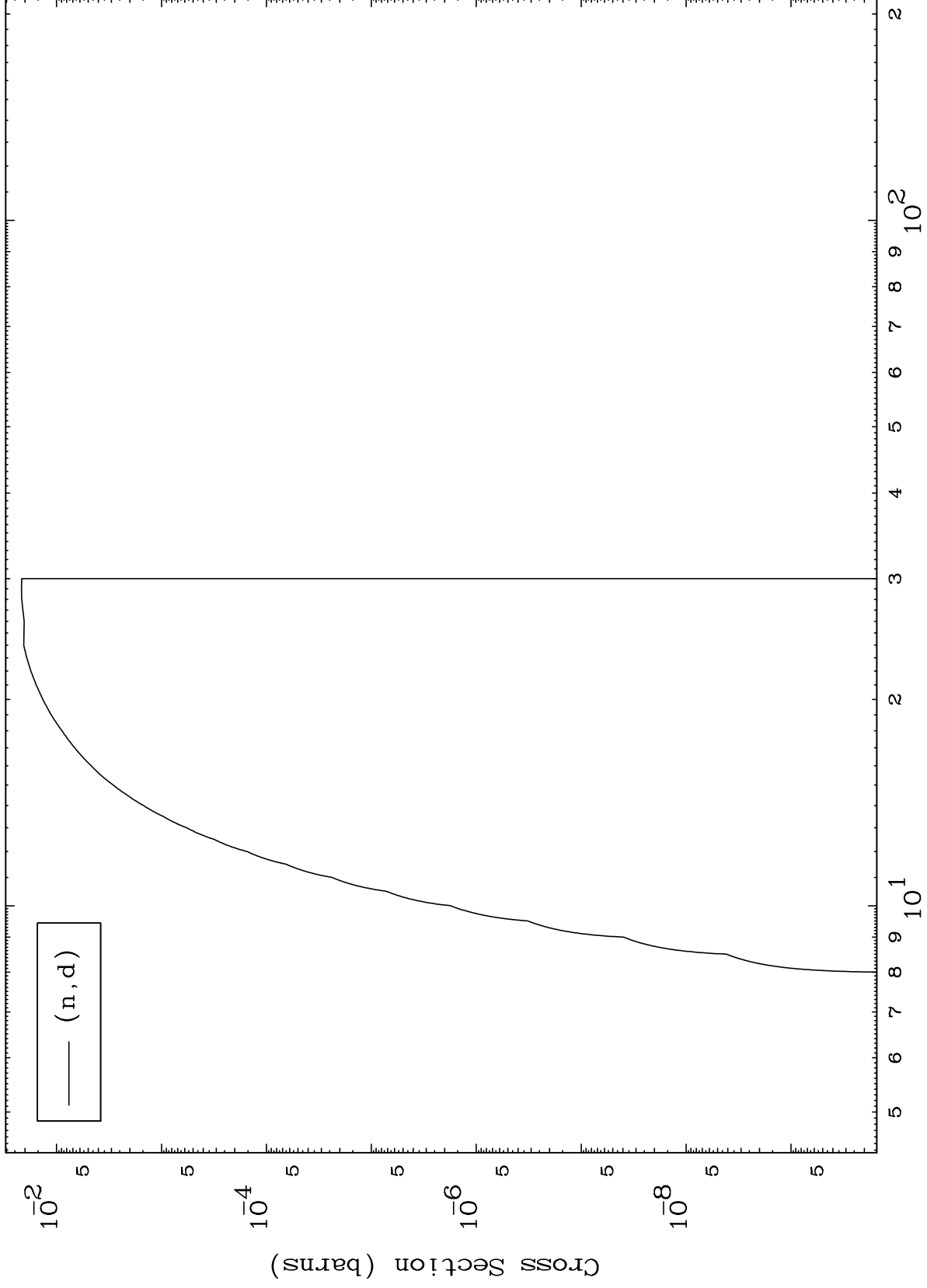
Incident Energy (MeV)

60-Nd-141

MAT 6022

(n,d) Levels
293 Kelvin Cross Sections

60-Nd-141



11

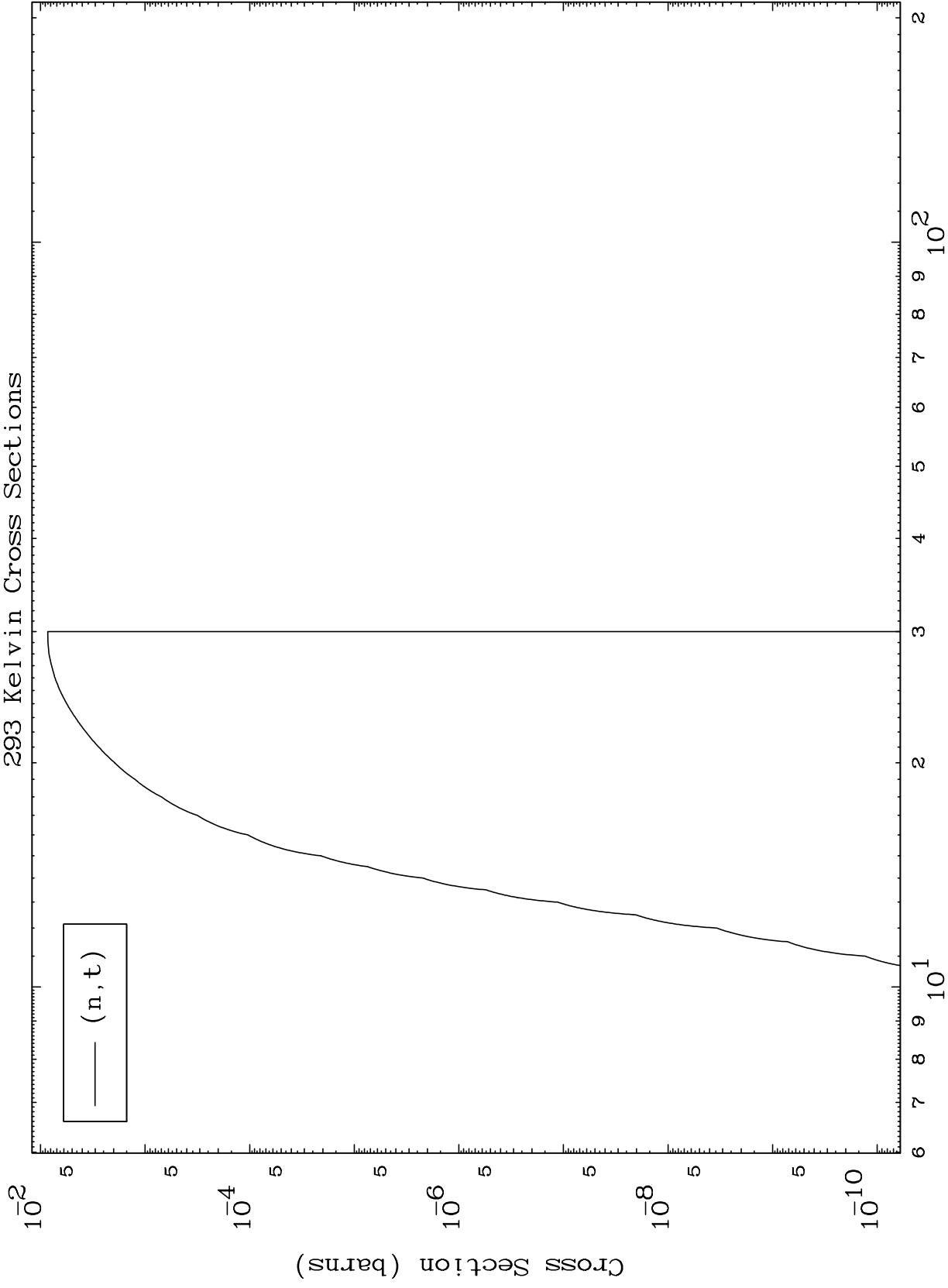
Incident Energy (MeV)

60-Nd-141

MAT 6022

(n,t) Levels
293 Kelvin Cross Sections

60-Nd-141



12

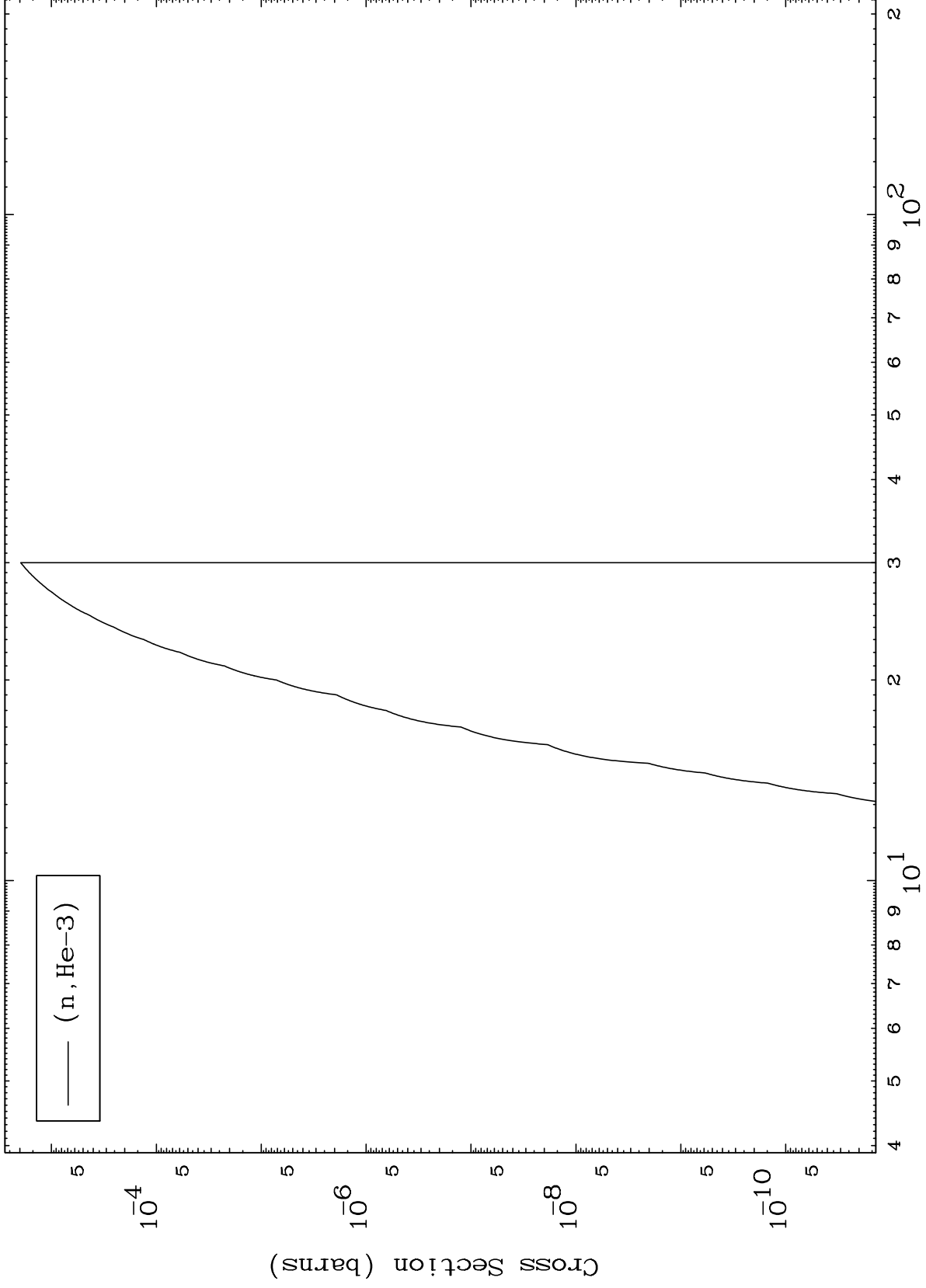
Incident Energy (MeV)

60-Nd-141

MAT 6022

(n,He3) Levels
293 Kelvin Cross Sections

60-Nd-141



13

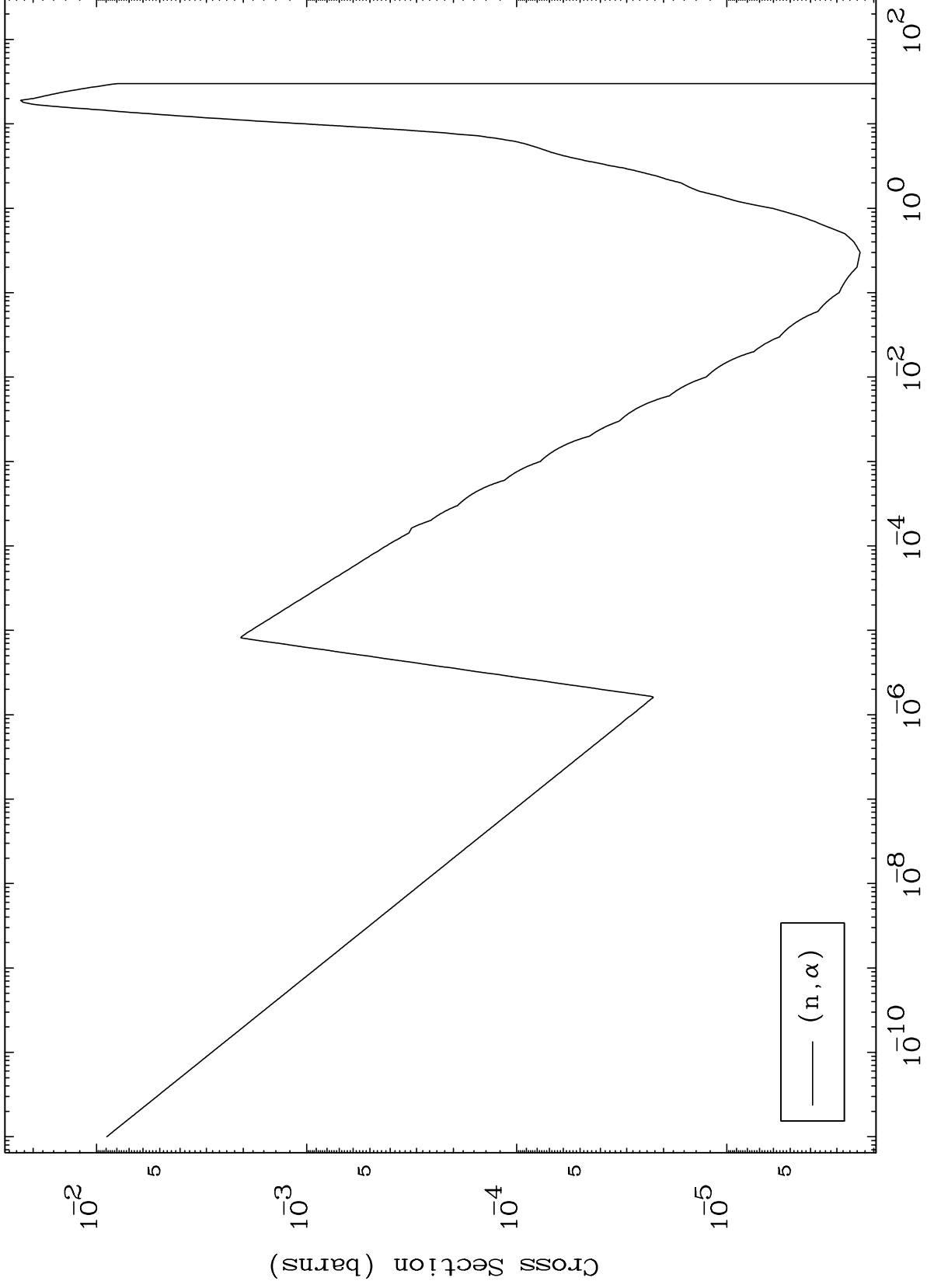
Incident Energy (MeV)

60-Nd-141

MAT 6022

(n, α) Levels
293 Kelvin Cross Sections

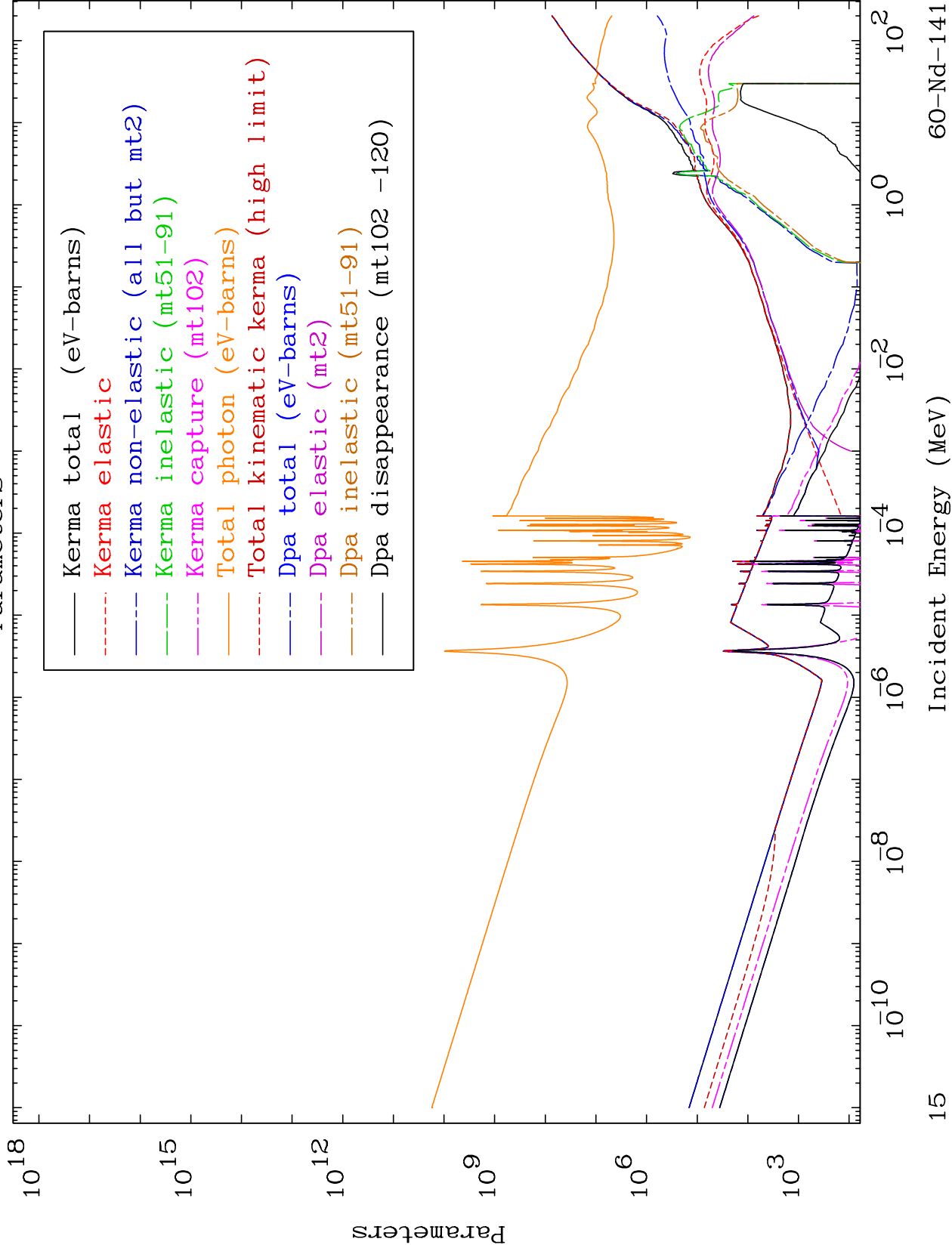
60-Nd-141

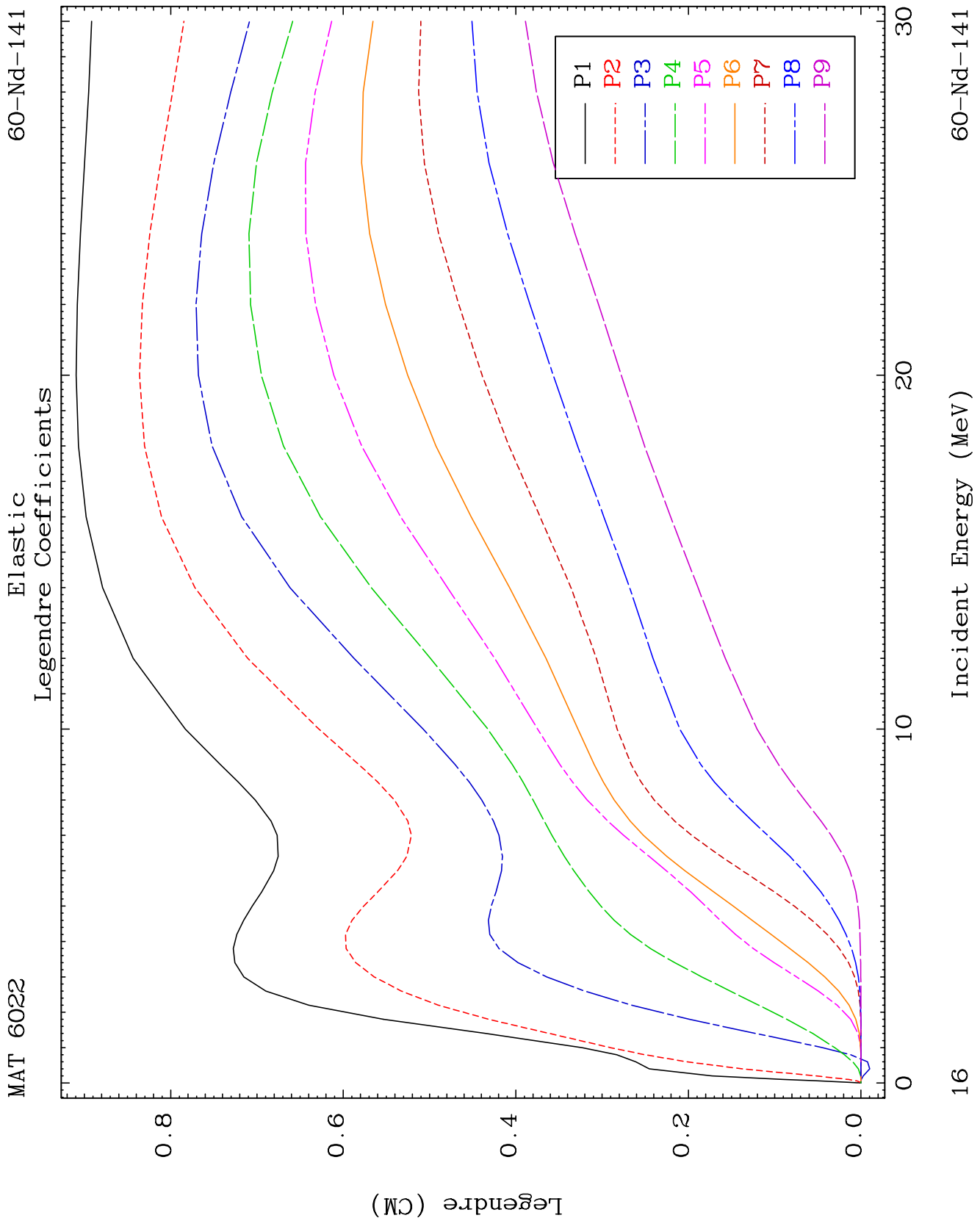


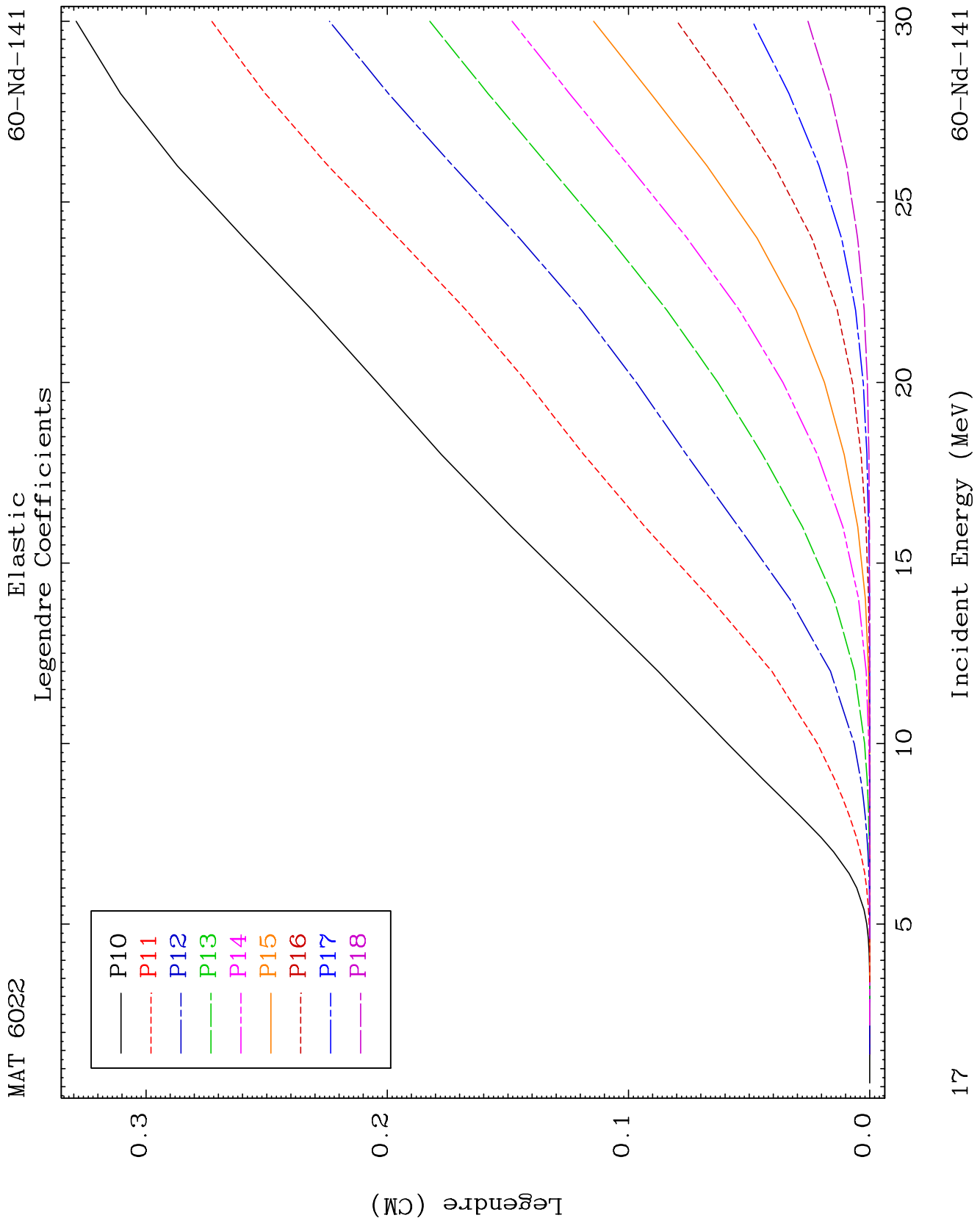
14

Incident Energy (MeV)

60-Nd-141



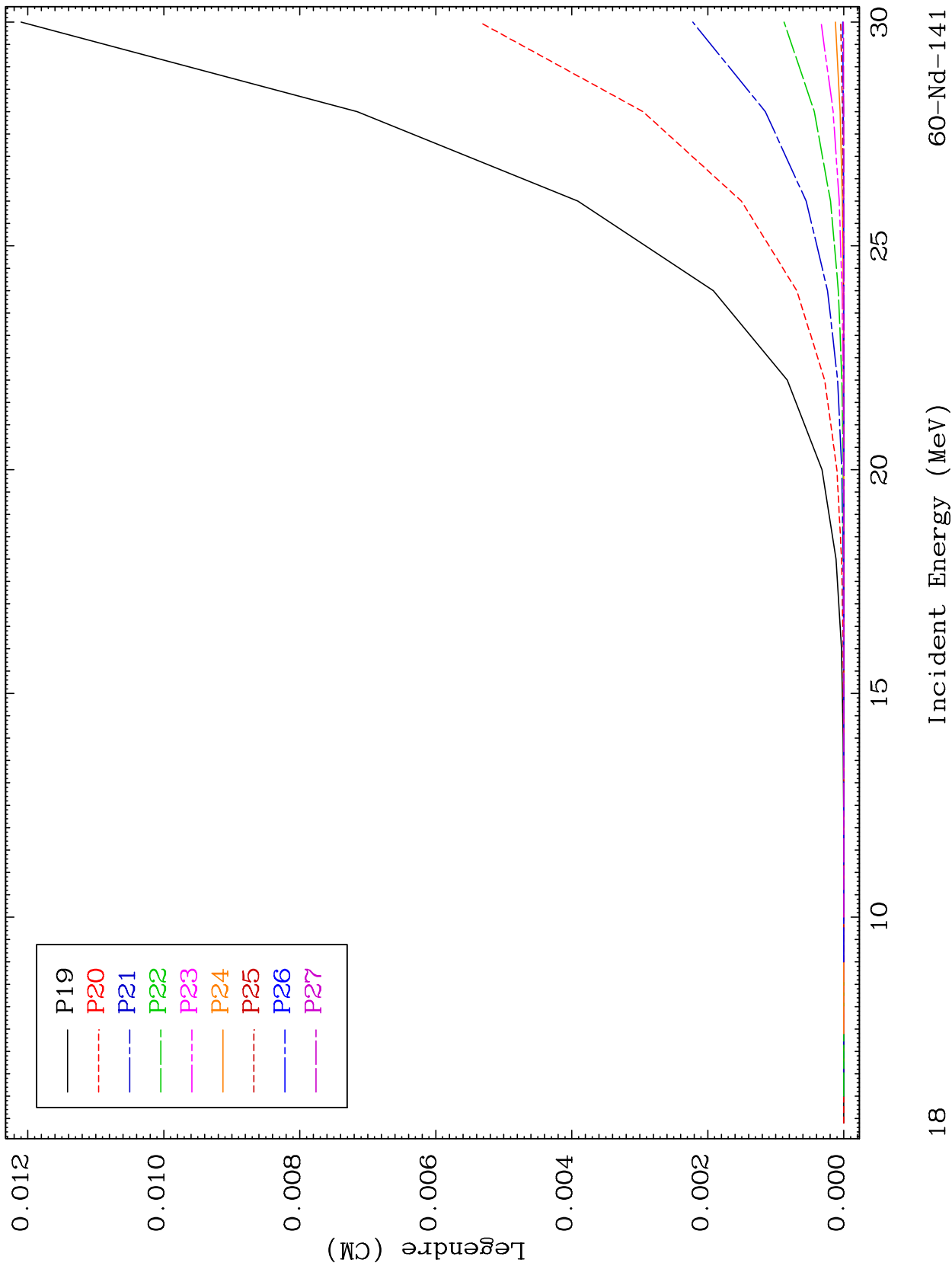




MAT 6022

Elastic Legendre Coefficients

⁶⁰Nd-141



18

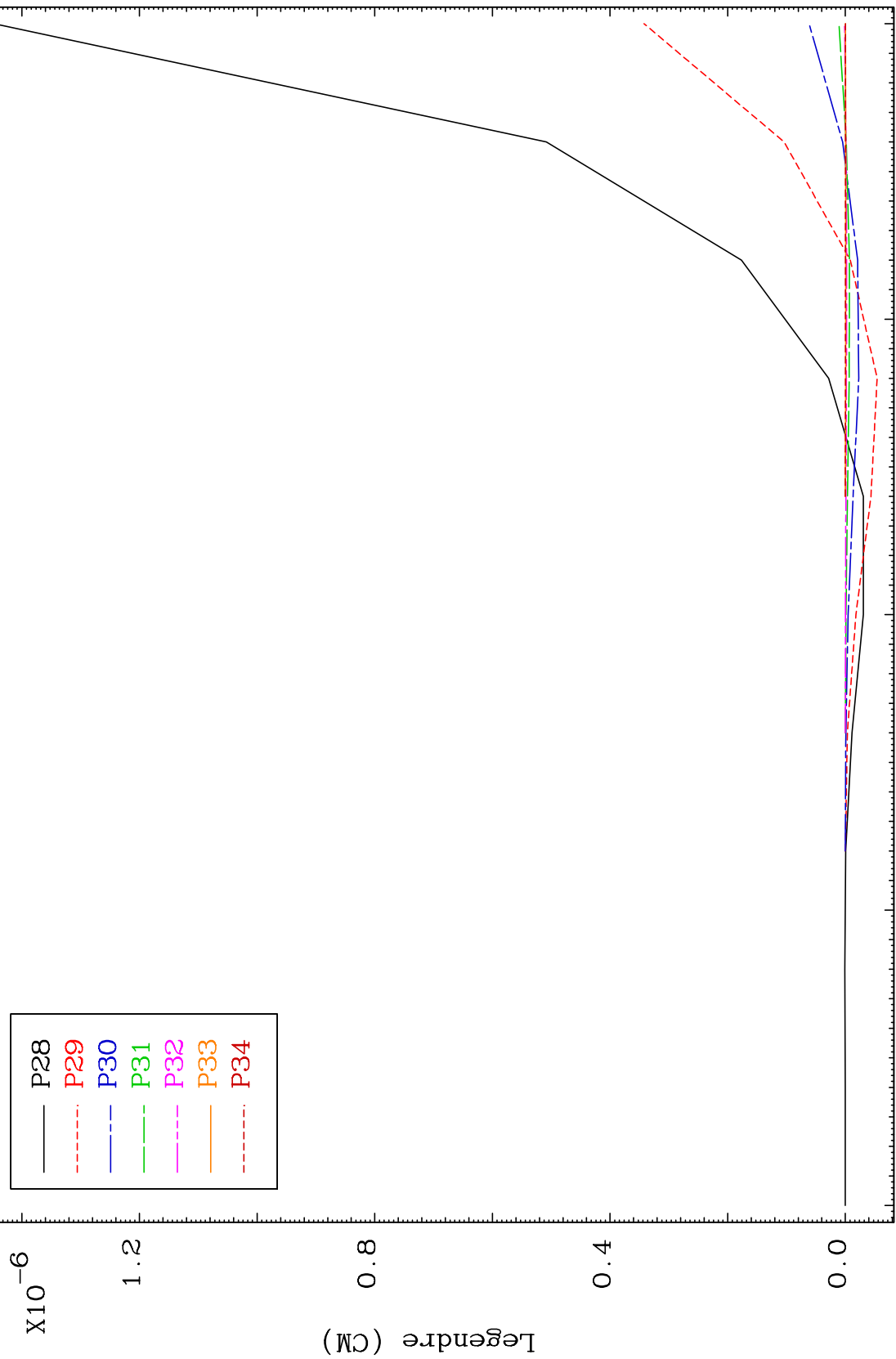
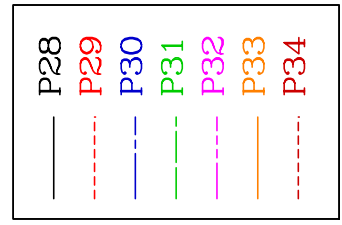
Incident Energy (MeV)

⁶⁰Nd-141

MAT 6022

Elastic Legendre Coefficients

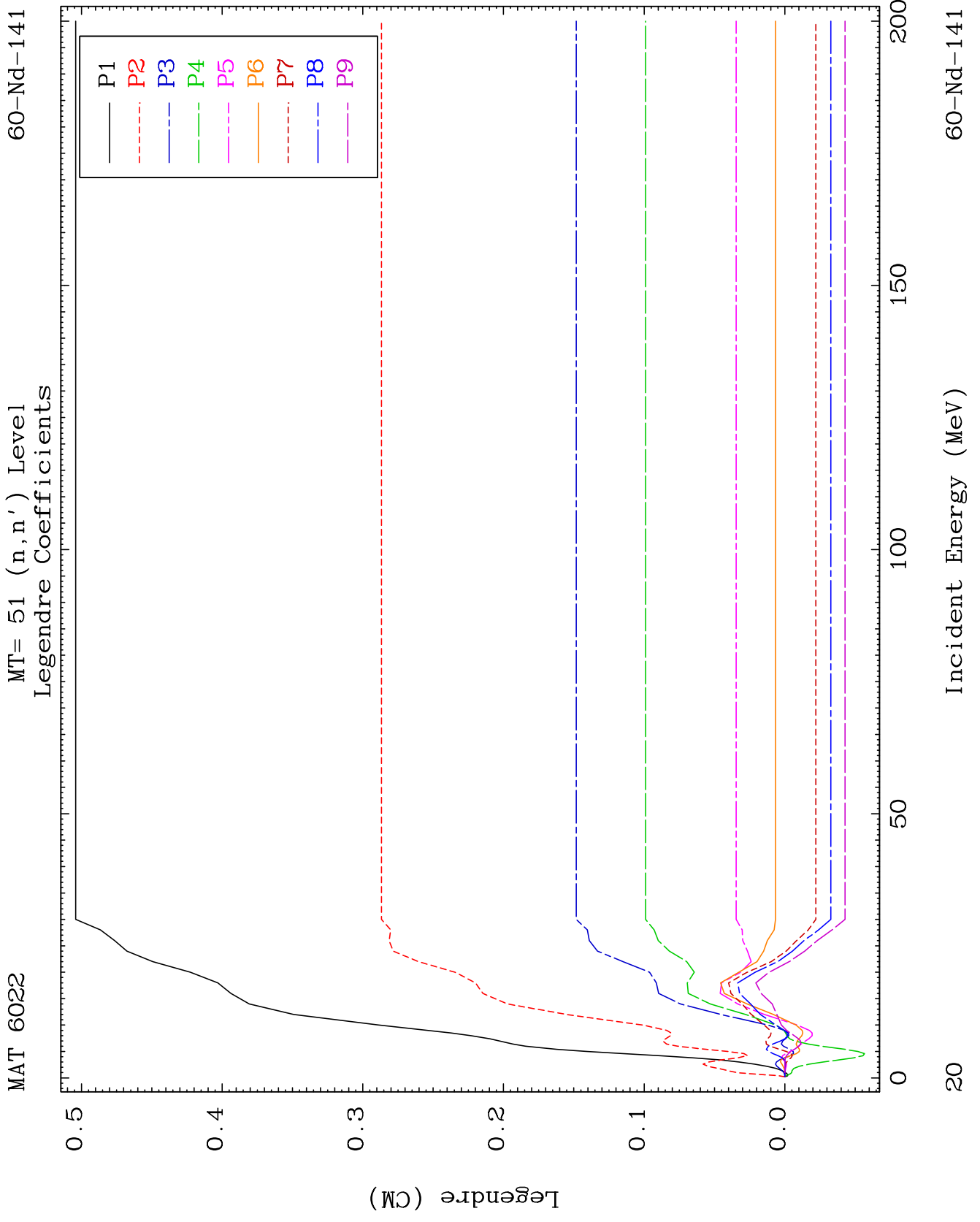
60-Nd-141



60-Nd-141

Incident Energy (MeV)

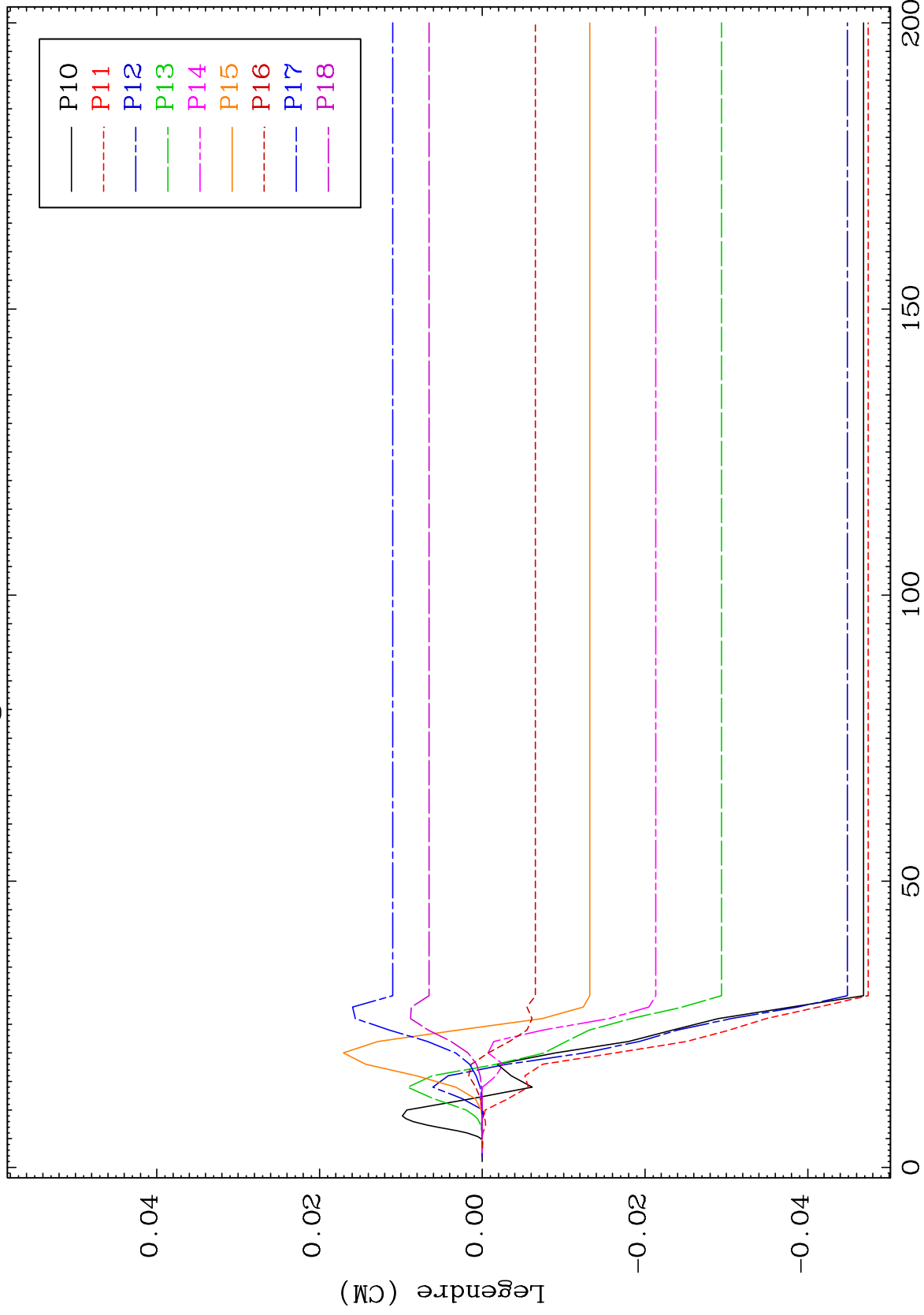
19



MAT 6022

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

60-Nd-141



21

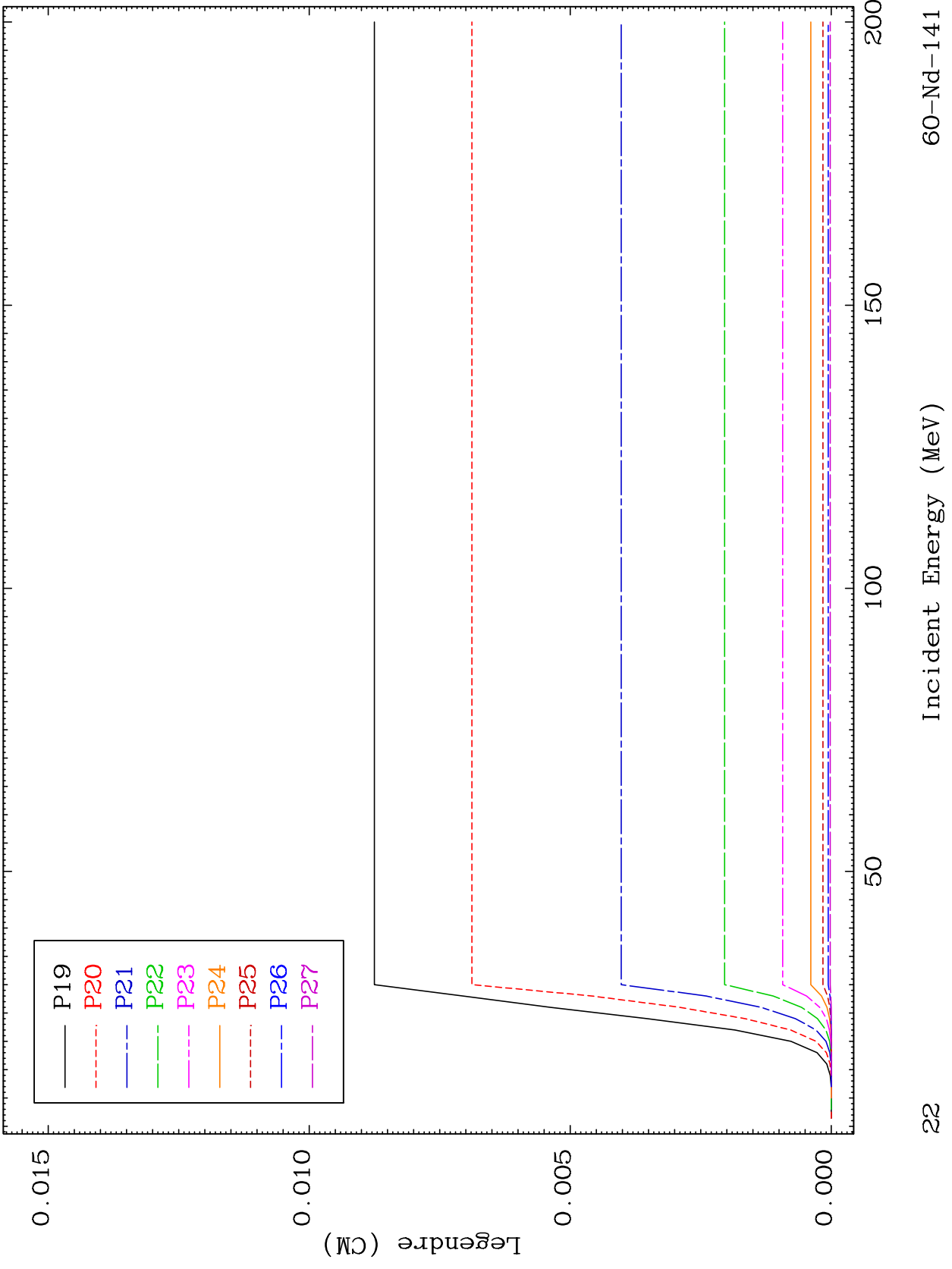
Incident Energy (MeV)

60-Nd-141

MAT 6022

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

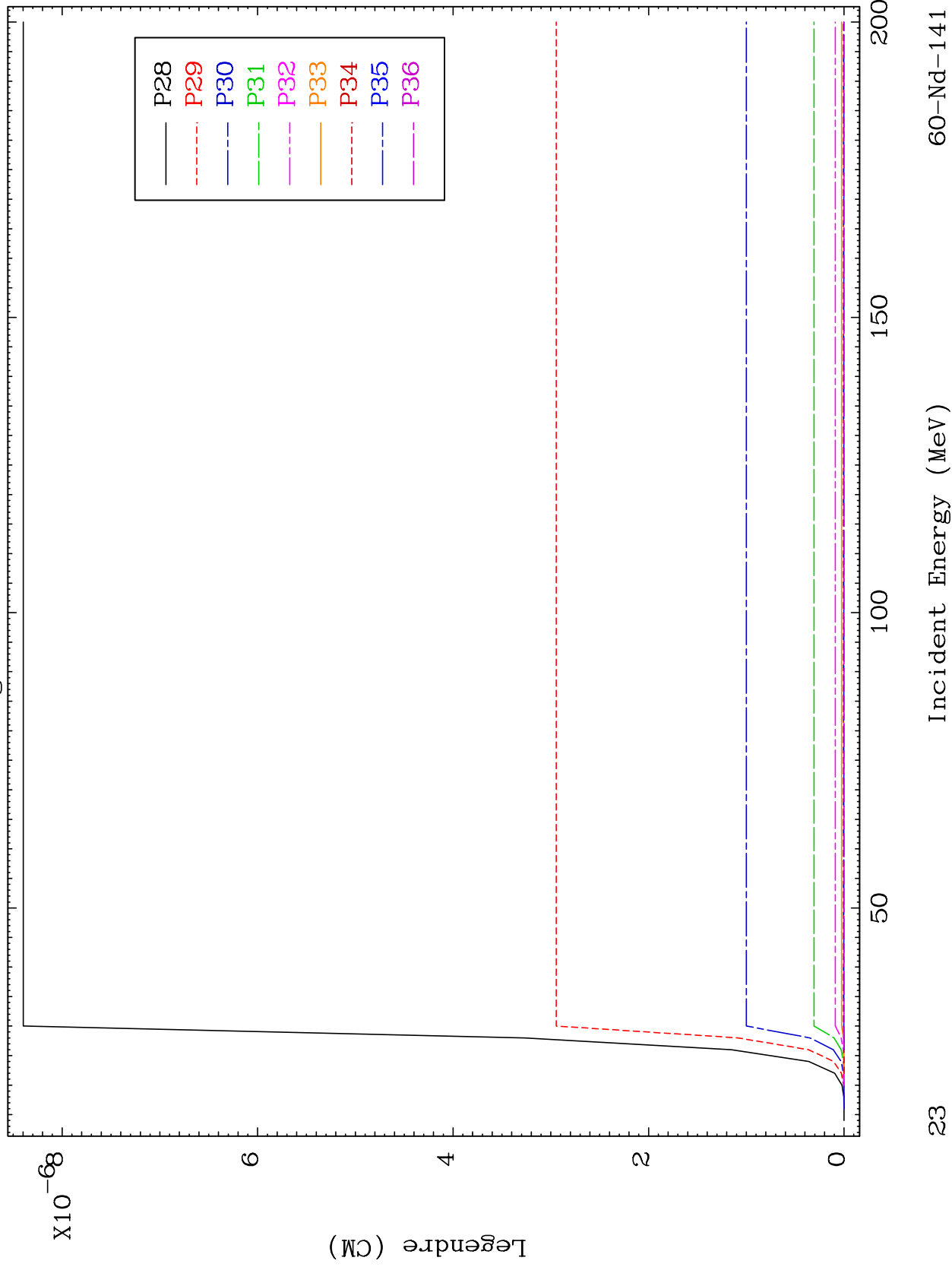
60-Nd-141

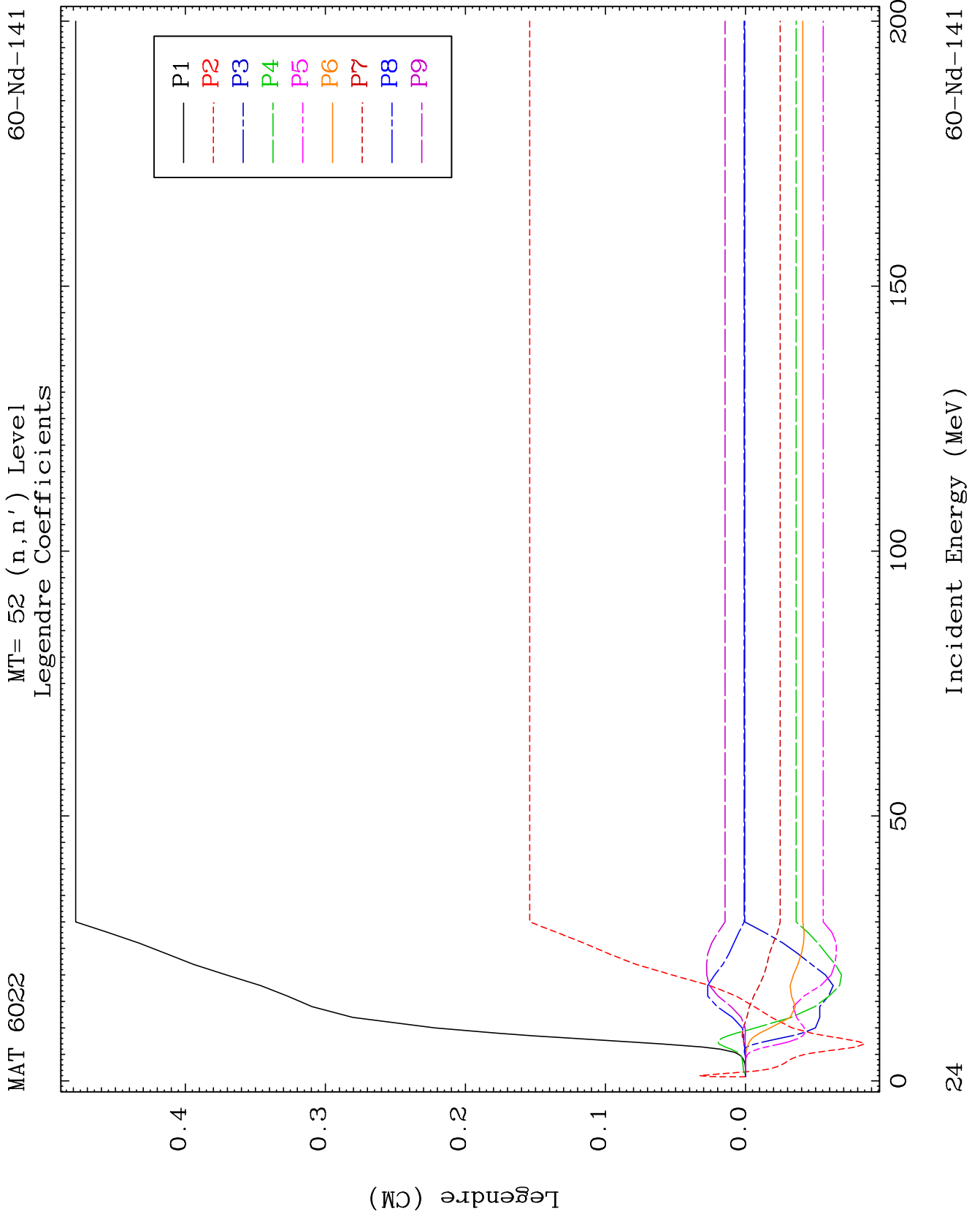


MAT 6022

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

60-Nd-141

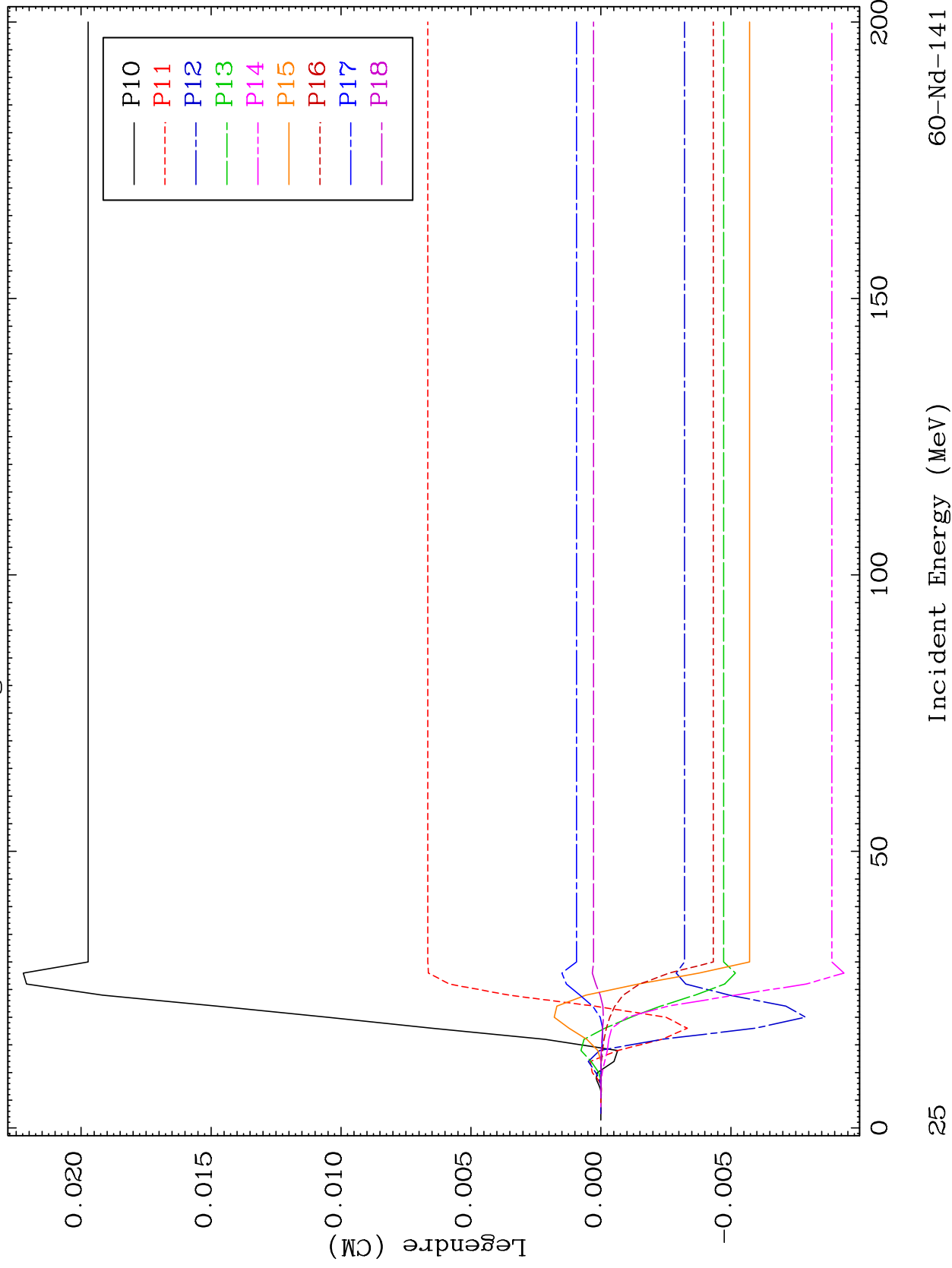




MAT 6022

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

60-Nd-141



60-Nd-141

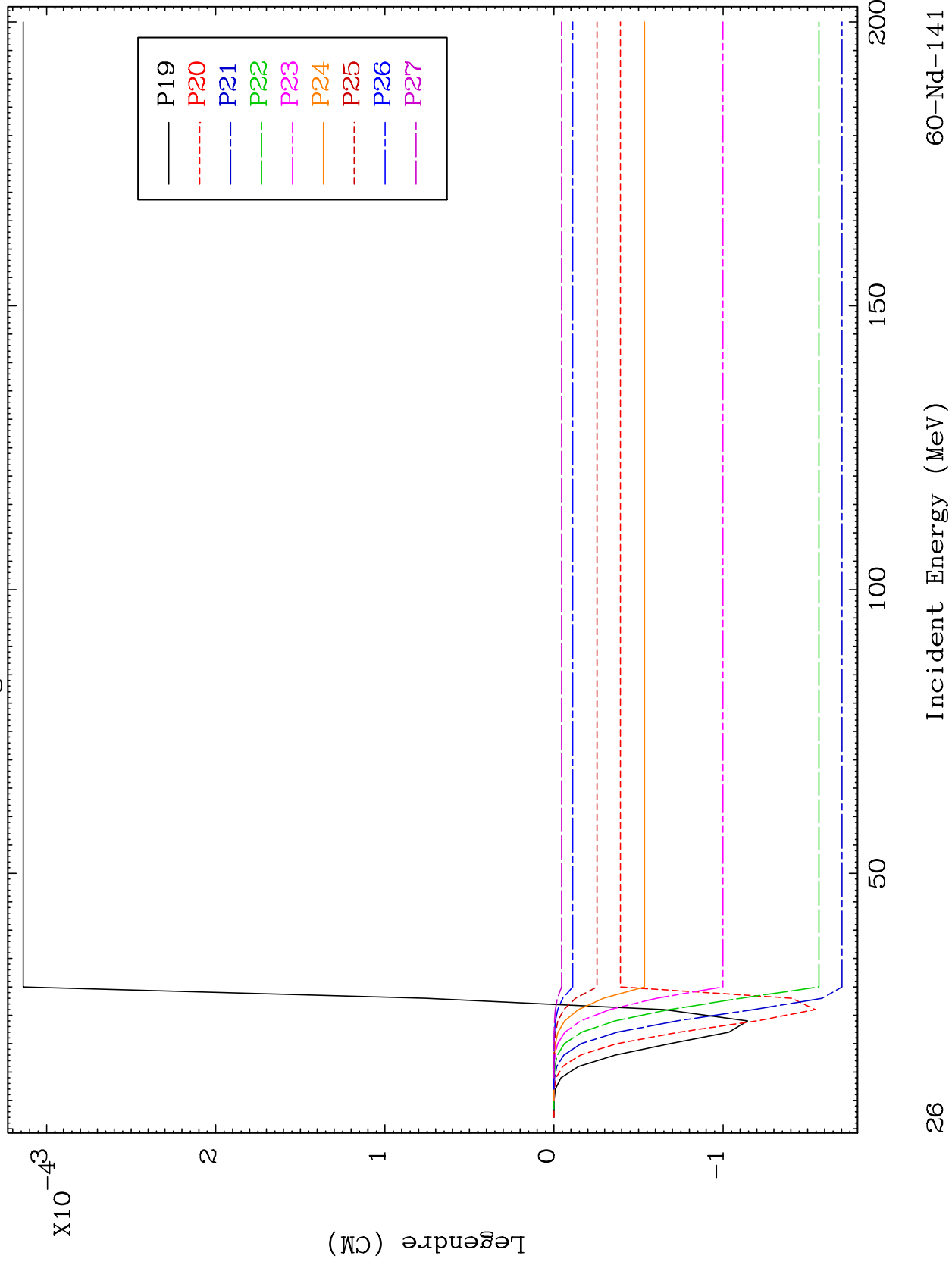
Incident Energy (MeV)

25

MAT 6022

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

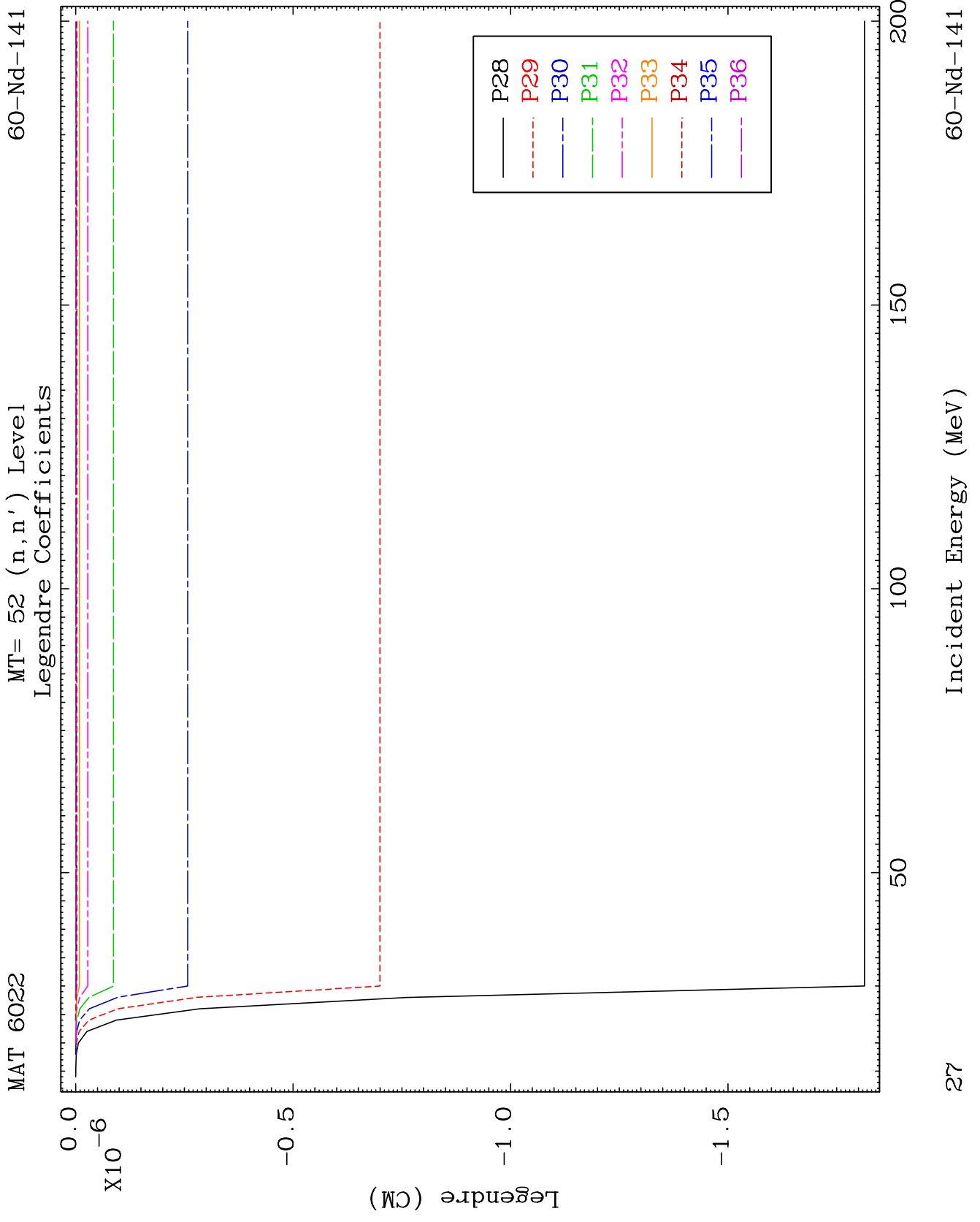
60-Nd-141

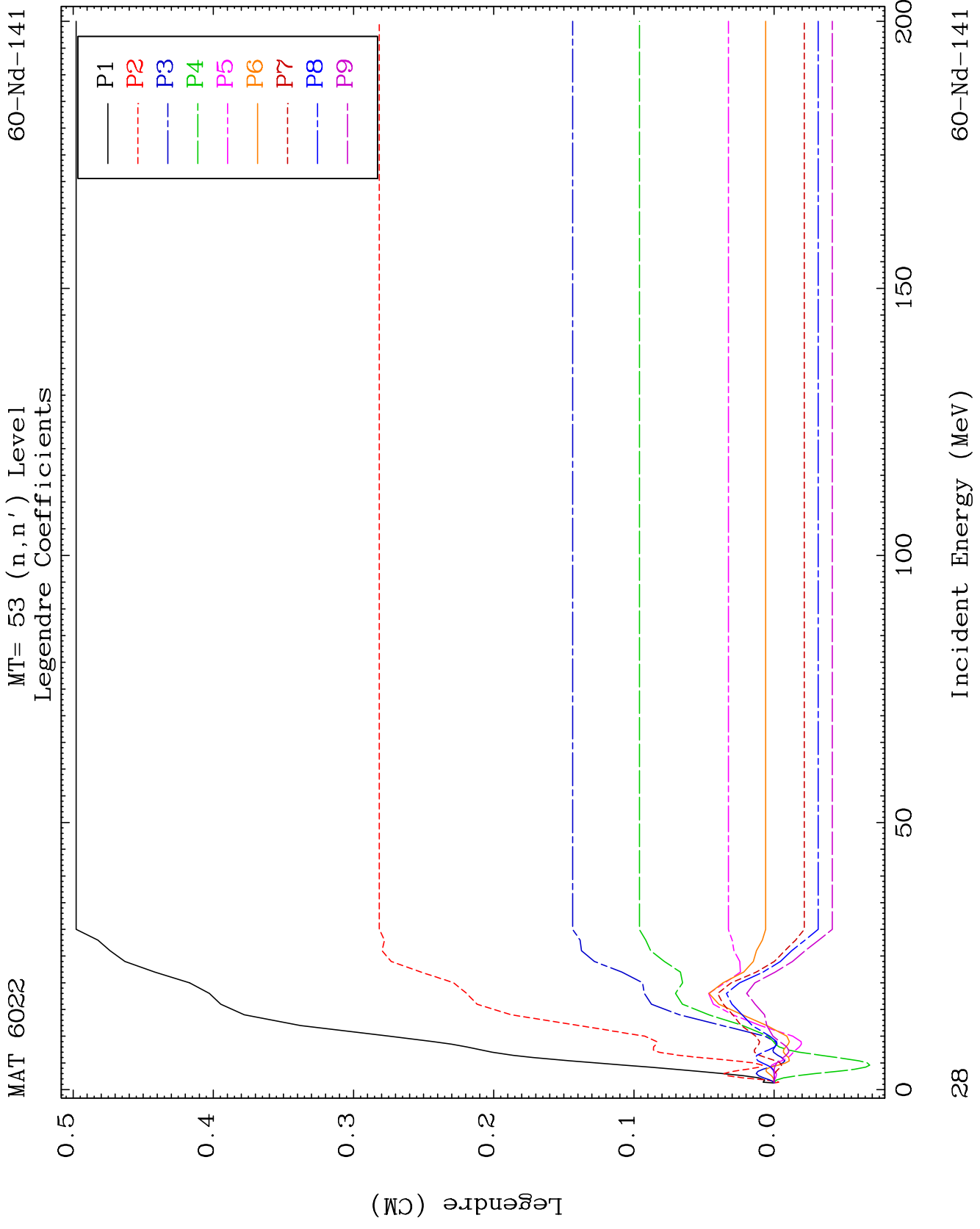


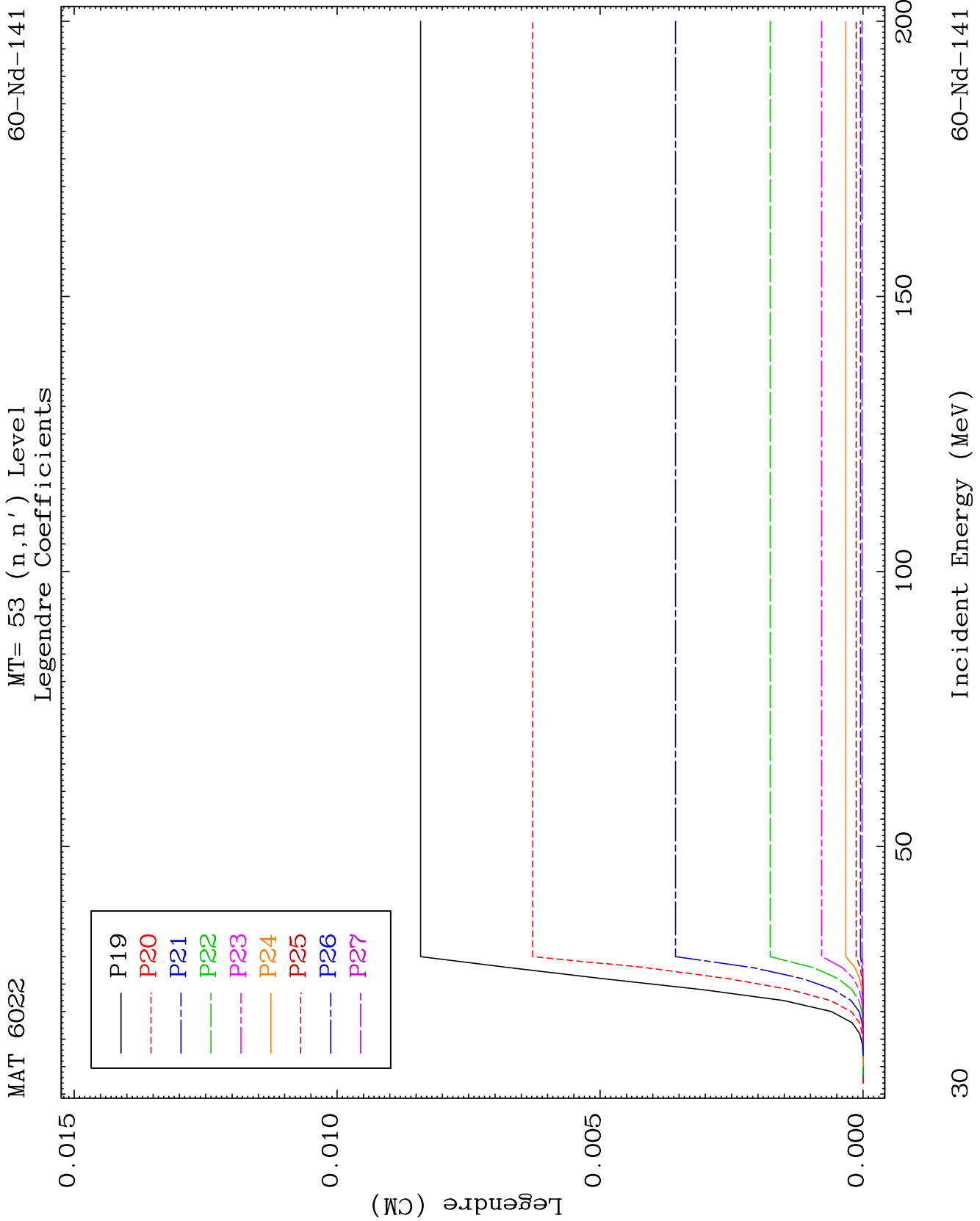
26

Incident Energy (MeV)

60-Nd-141



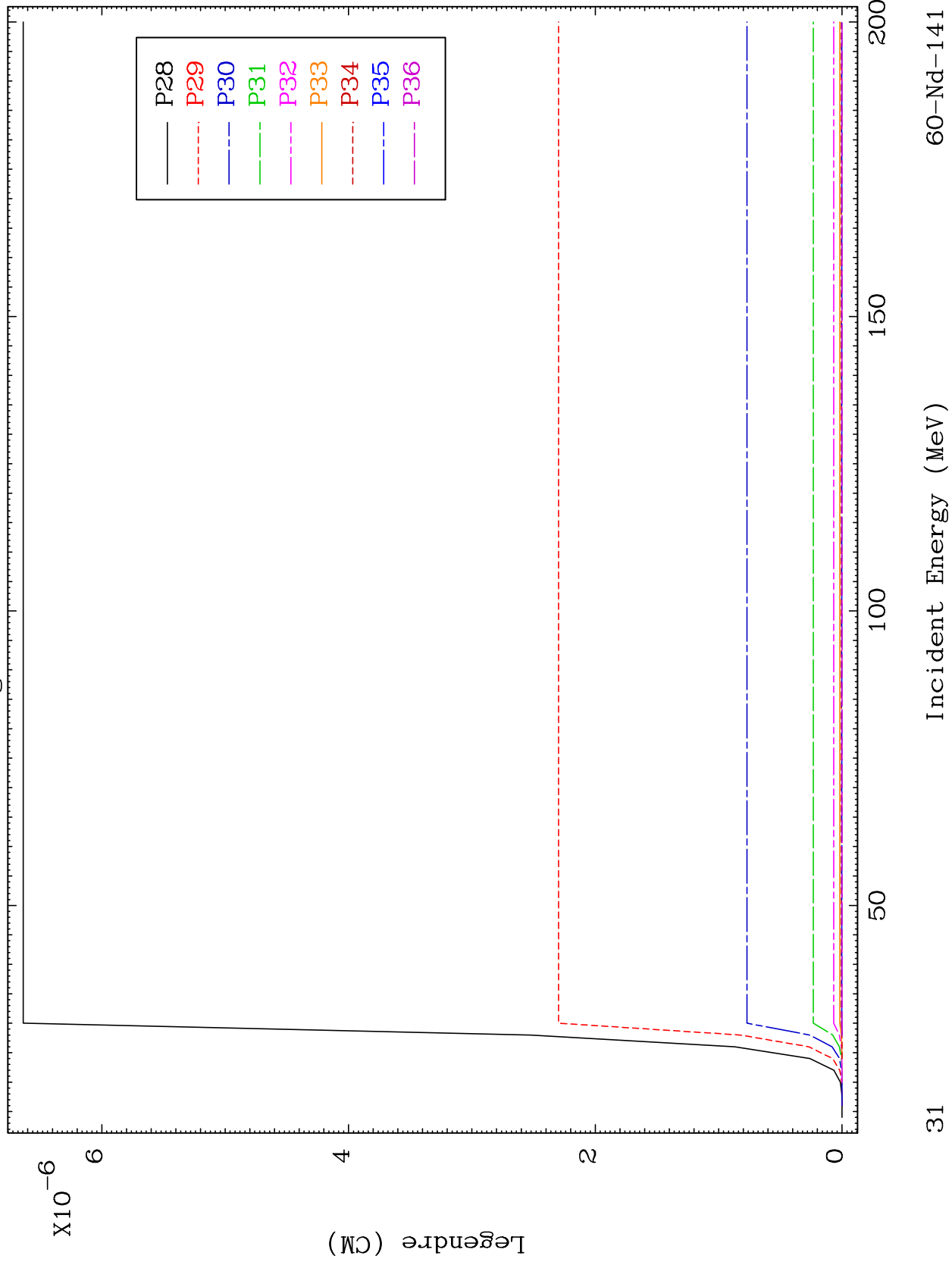




MAT 6022

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

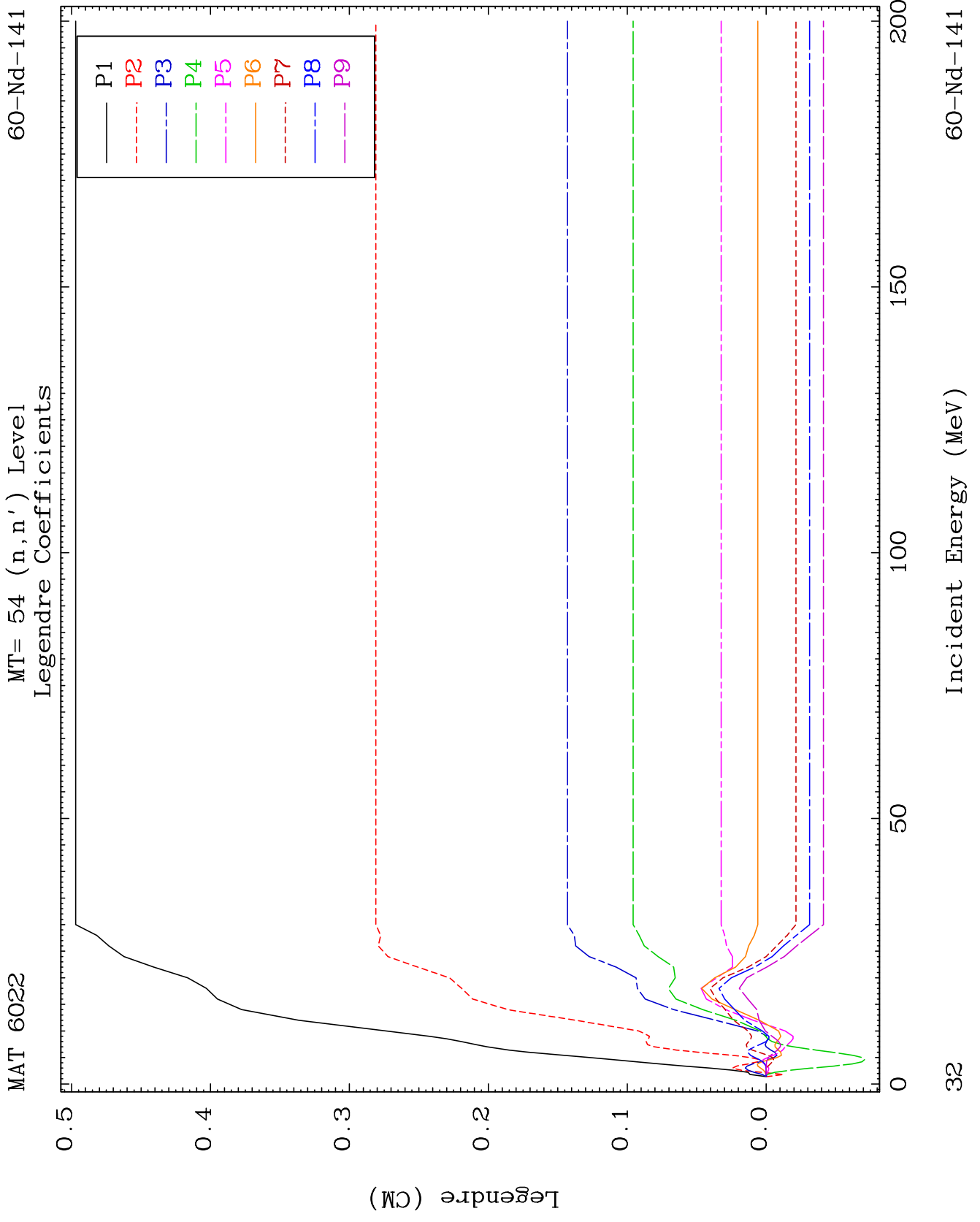
60-Nd-141

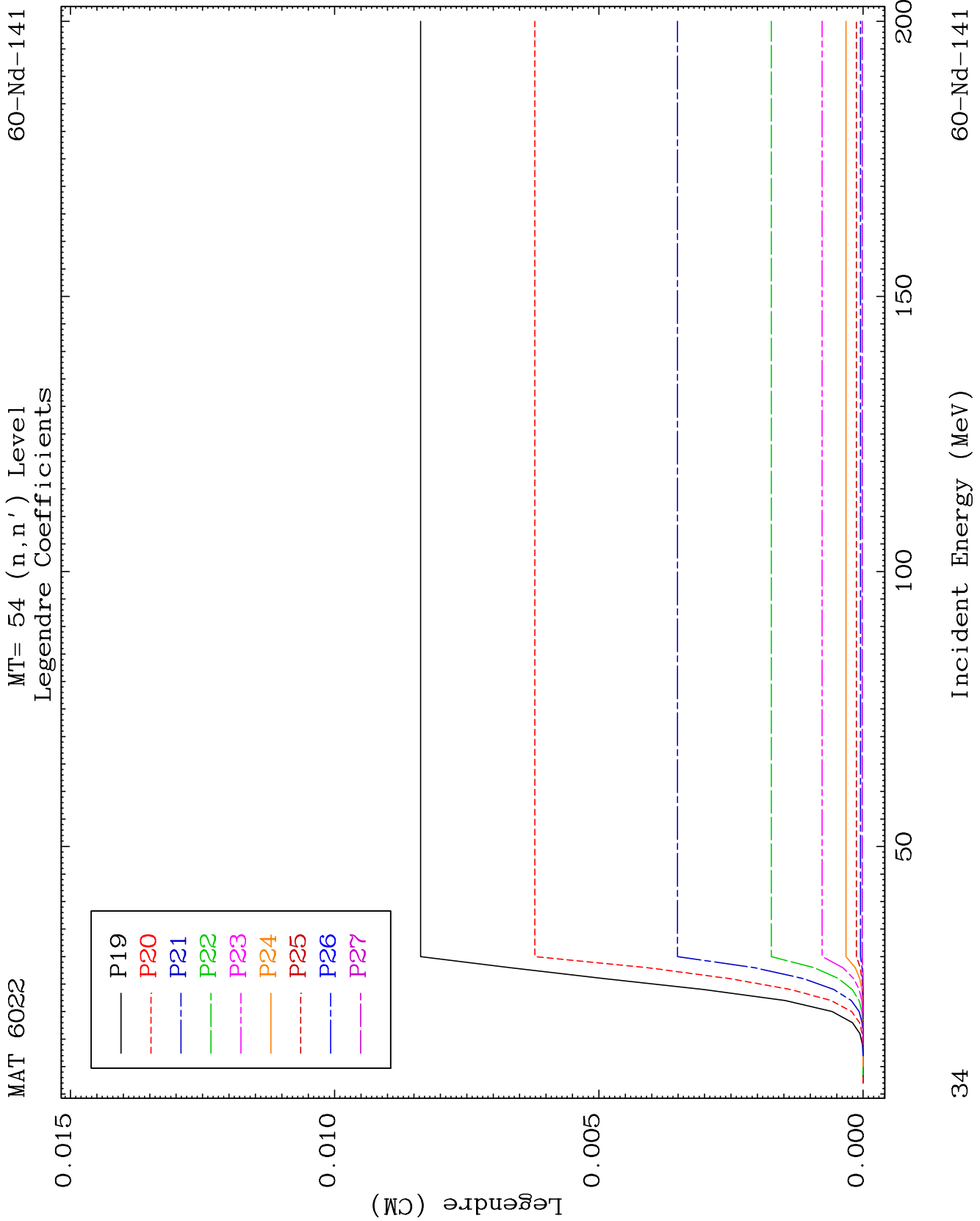


31

Incident Energy (MeV)

60-Nd-141

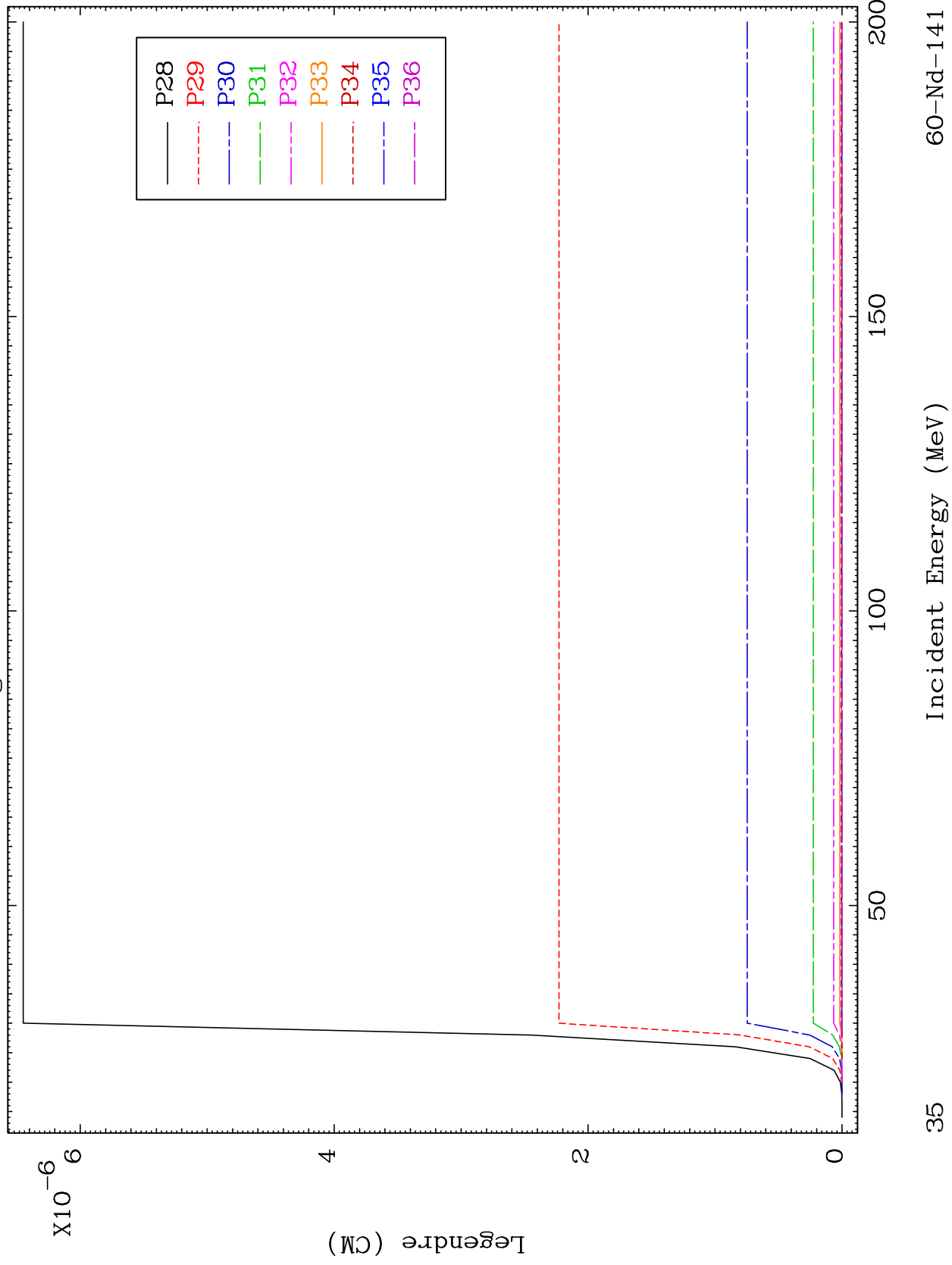




MAT 6022

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

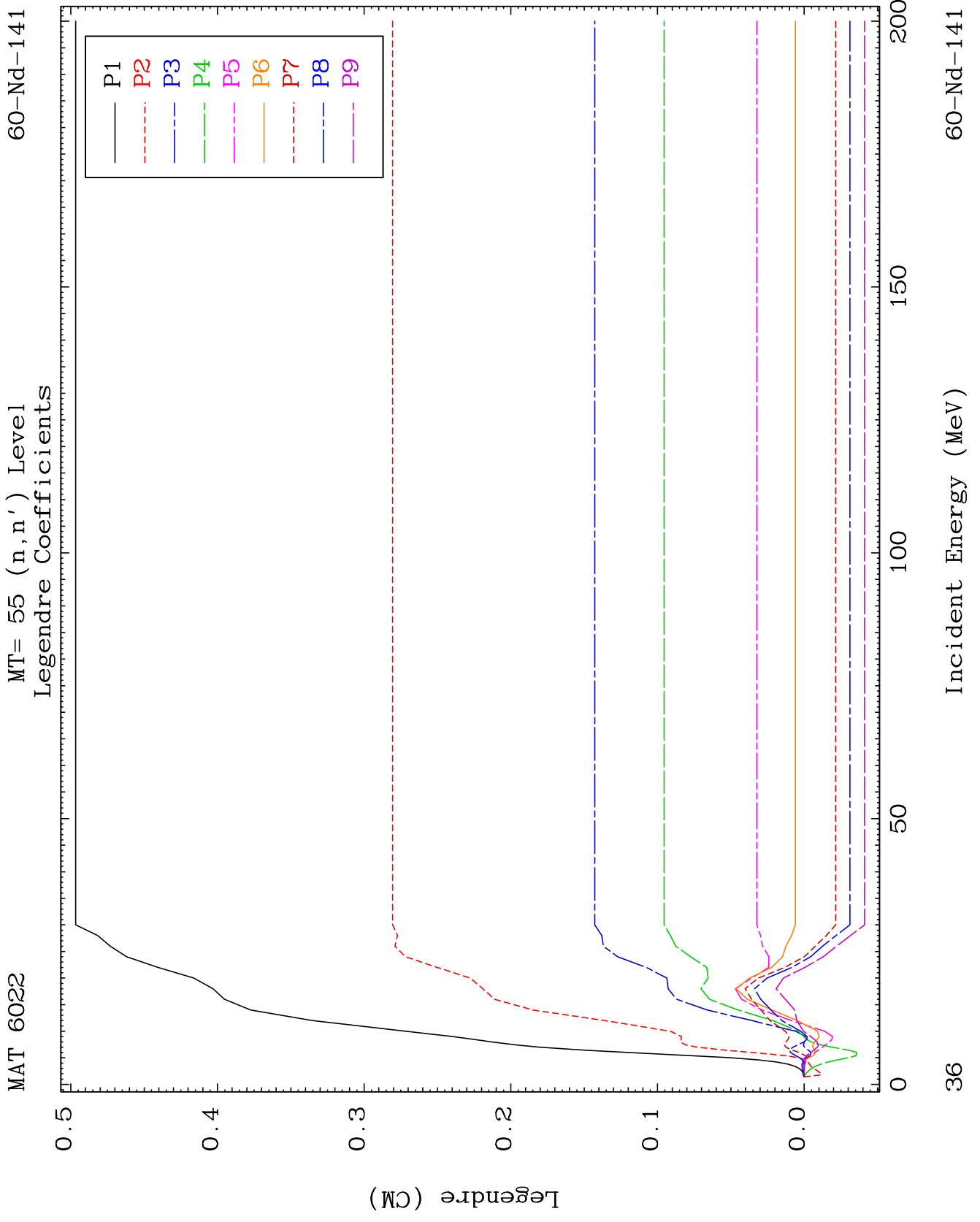
60-Nd-141

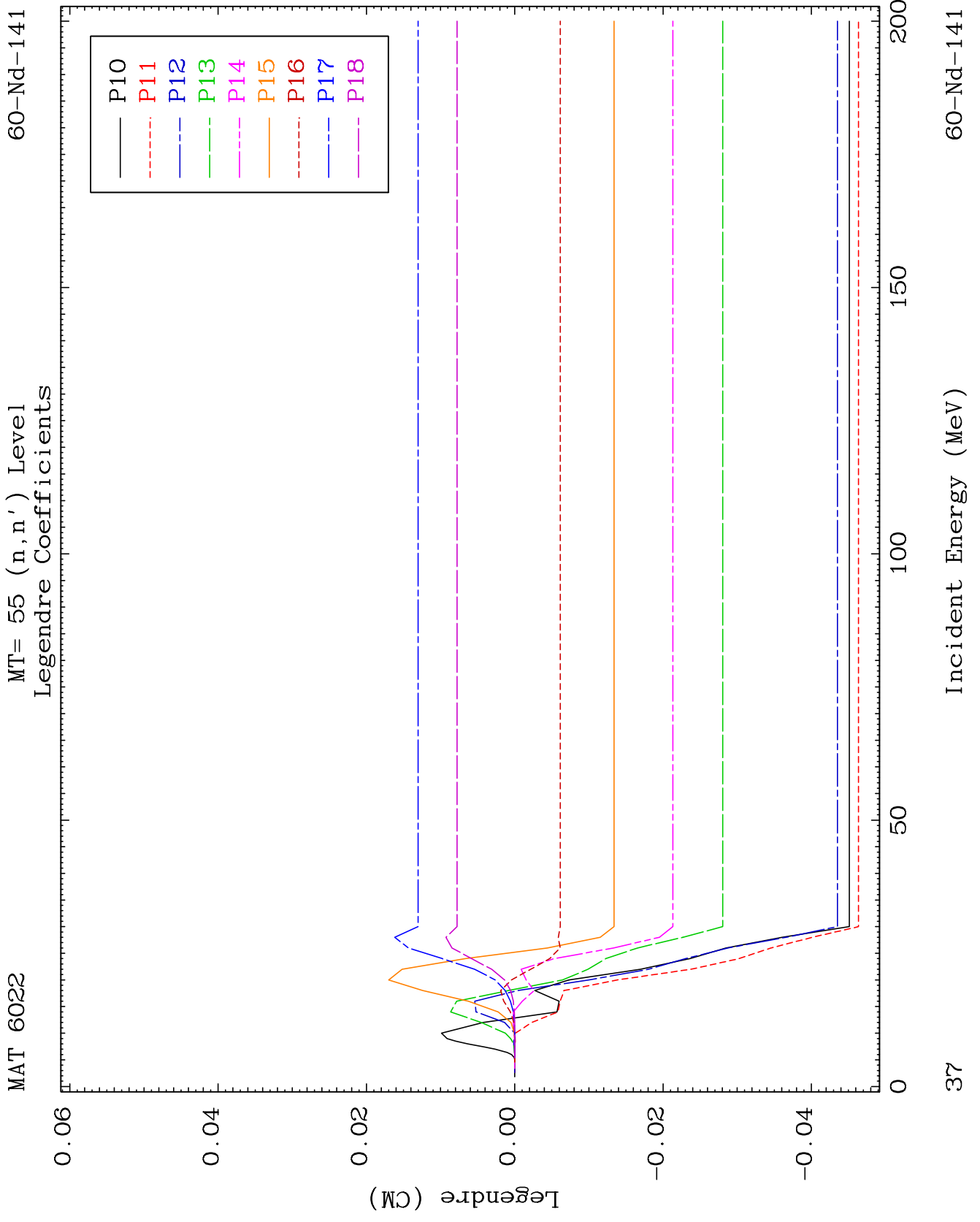


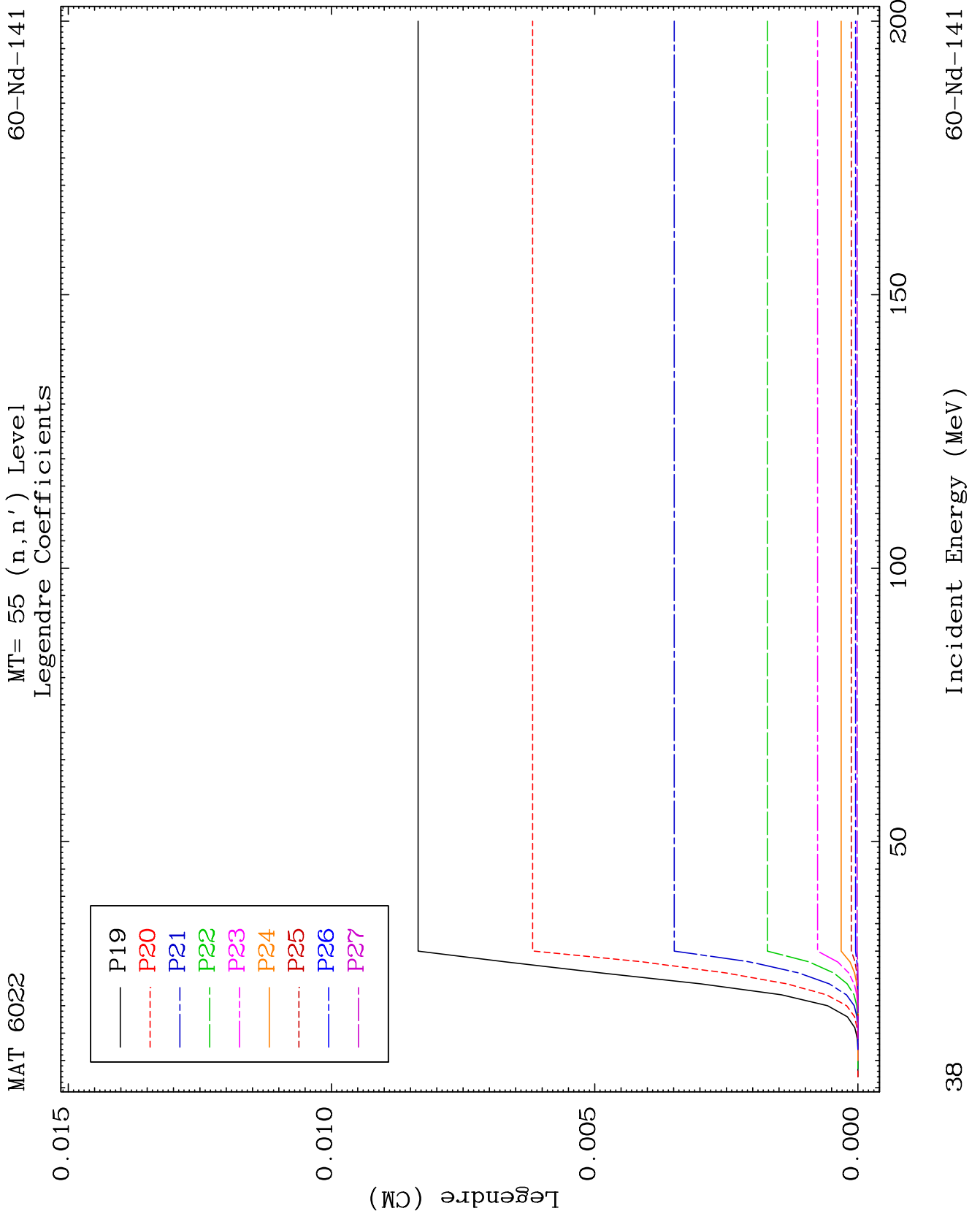
60-Nd-141

Incident Energy (MeV)

35



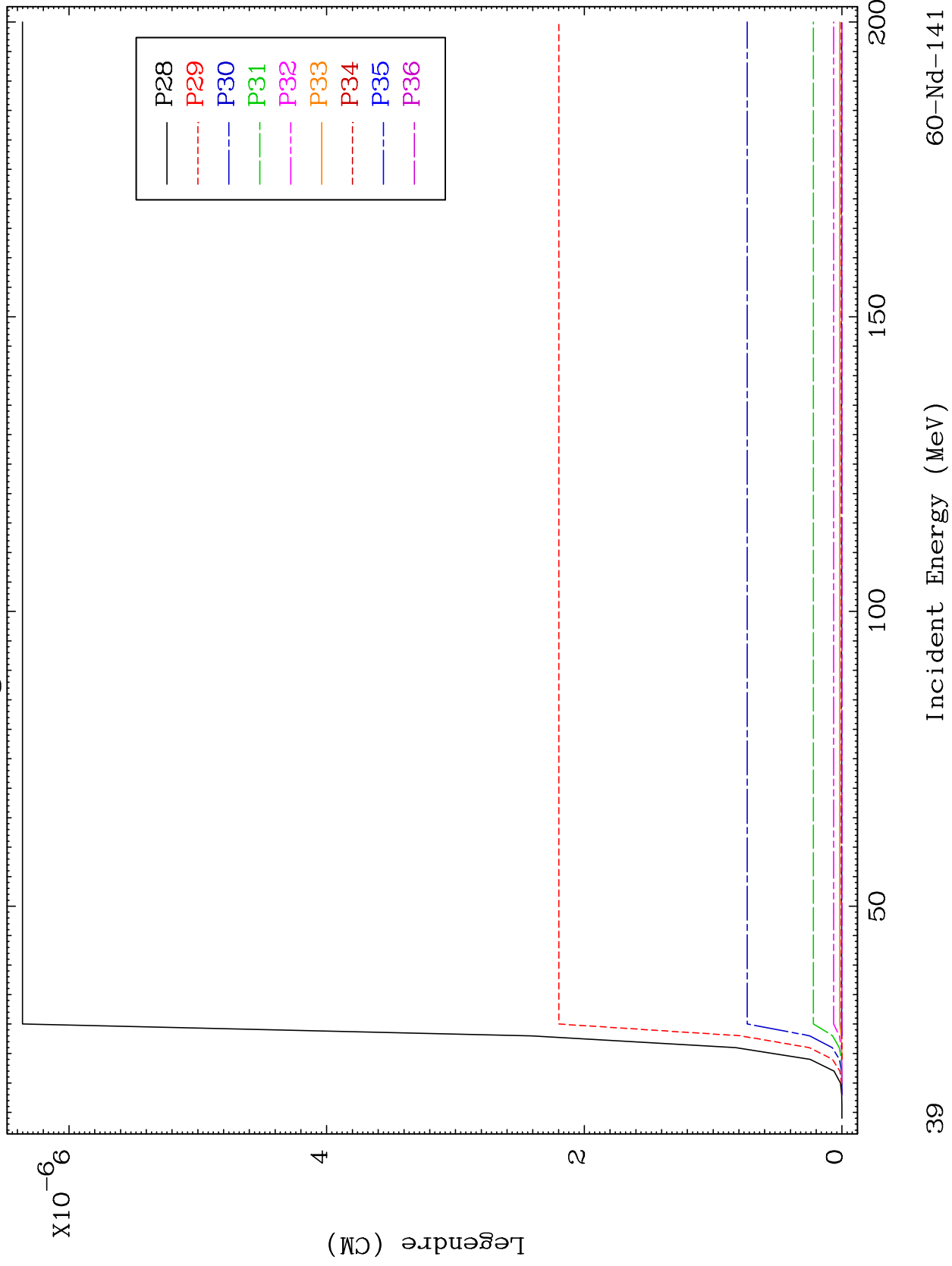




MAT 6022

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

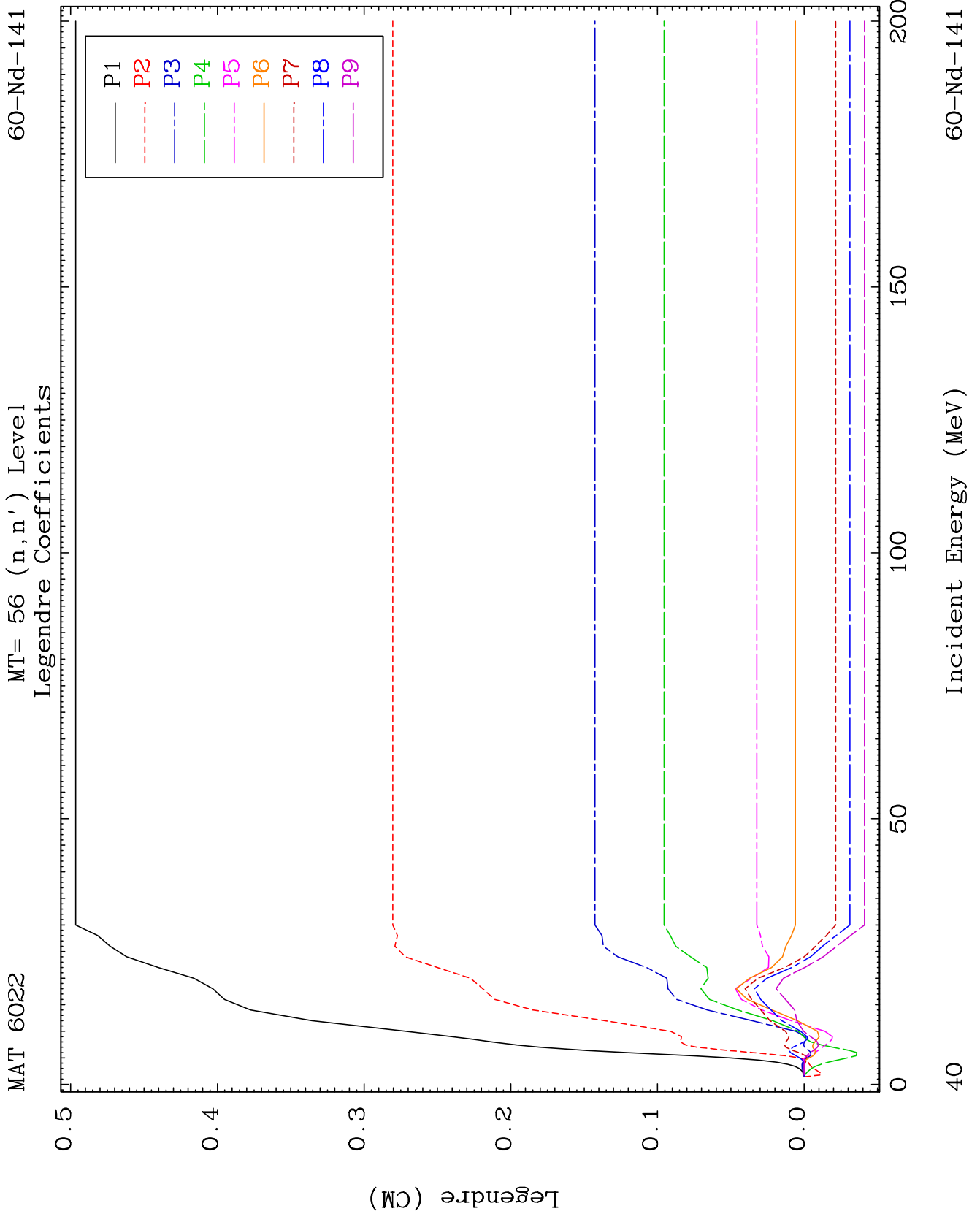
60-Nd-141

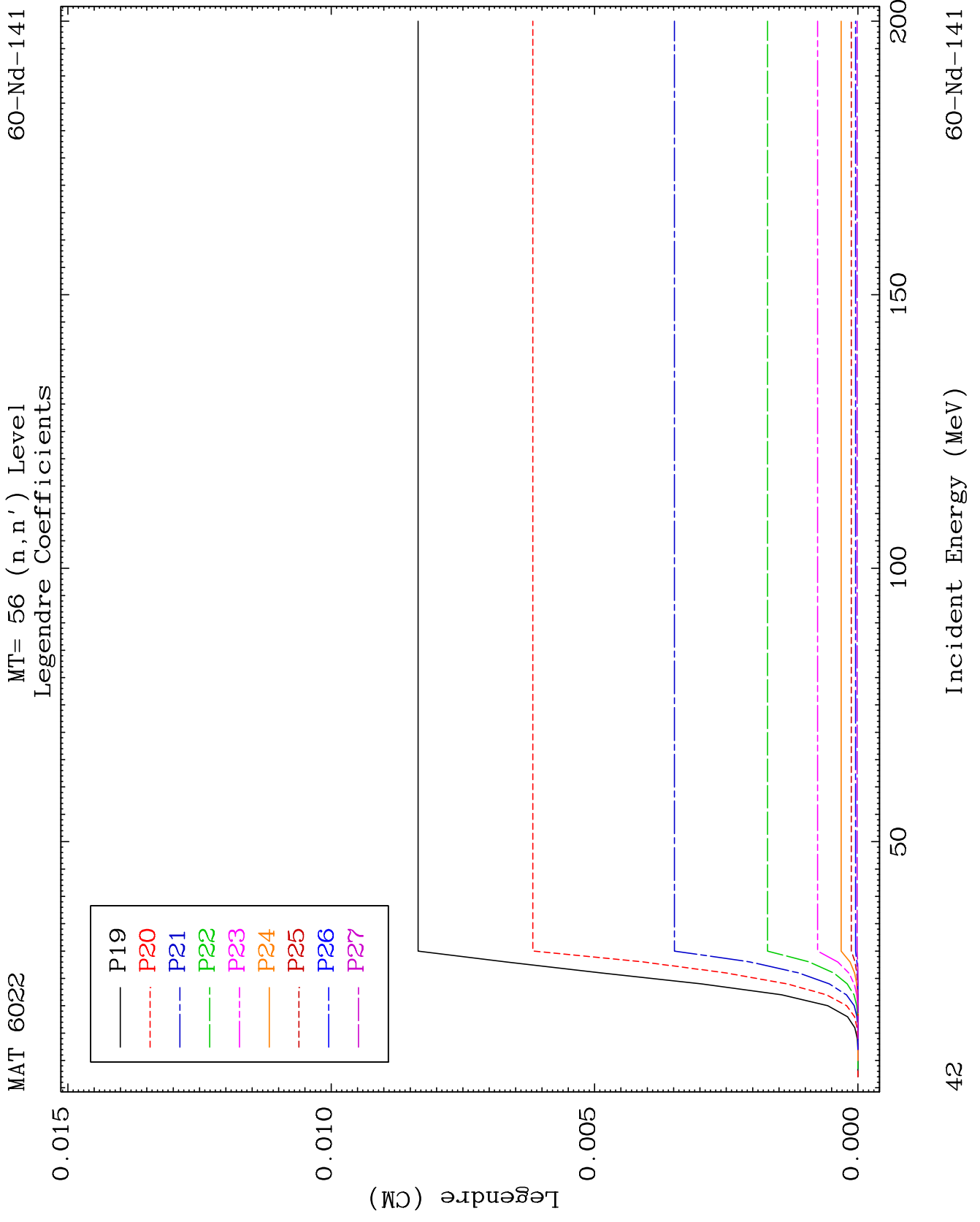


39

Incident Energy (MeV)

60-Nd-141

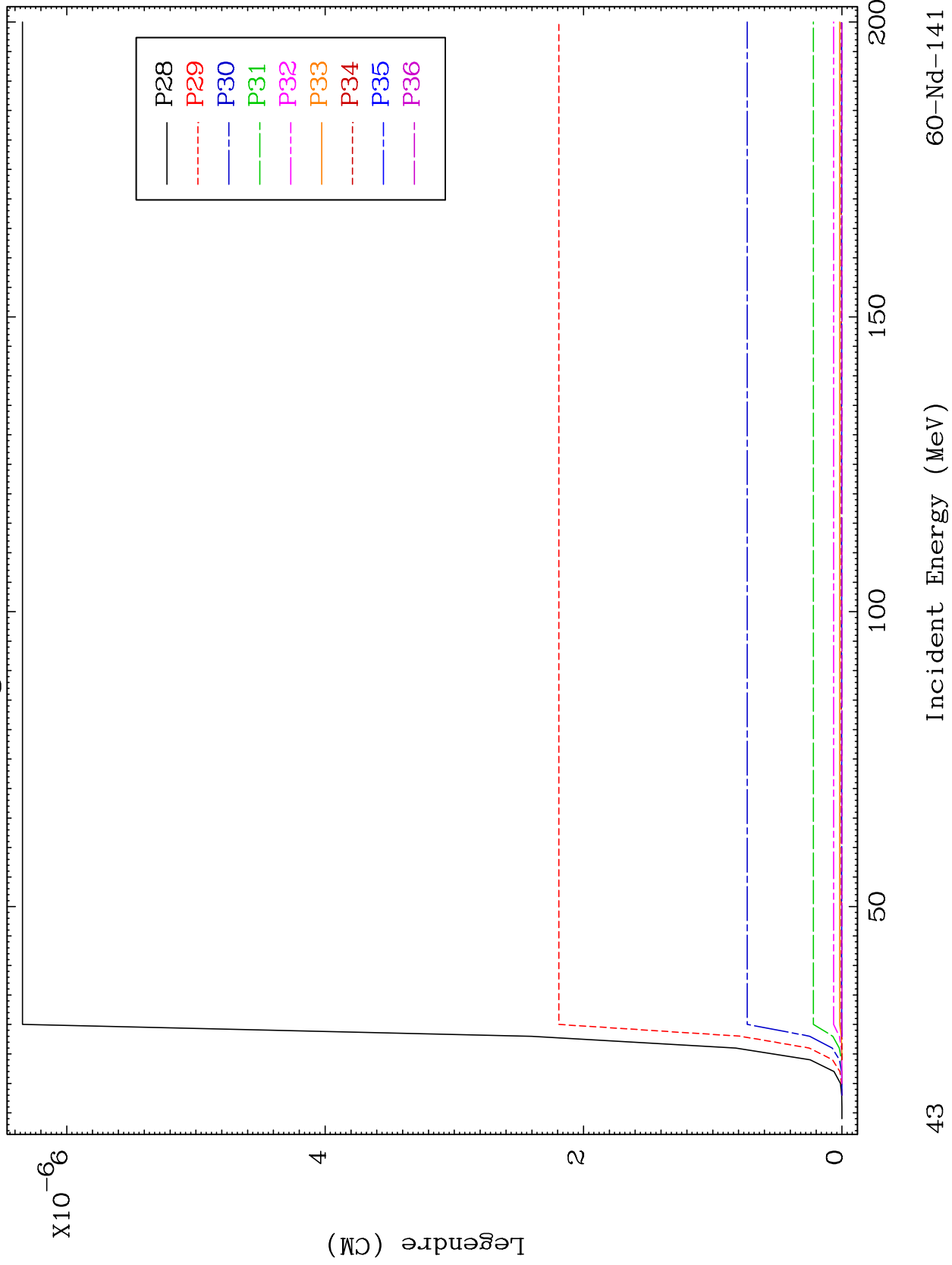


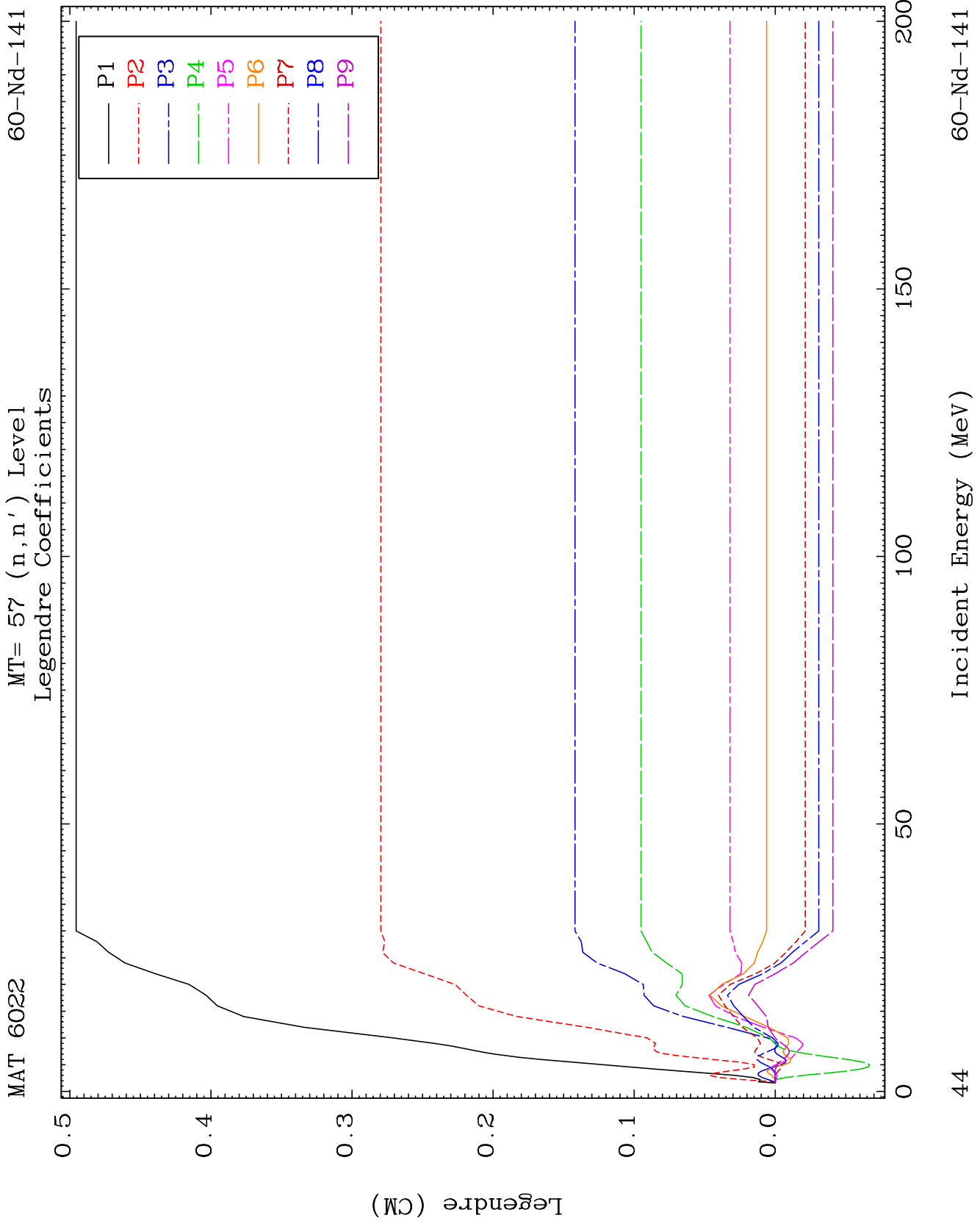


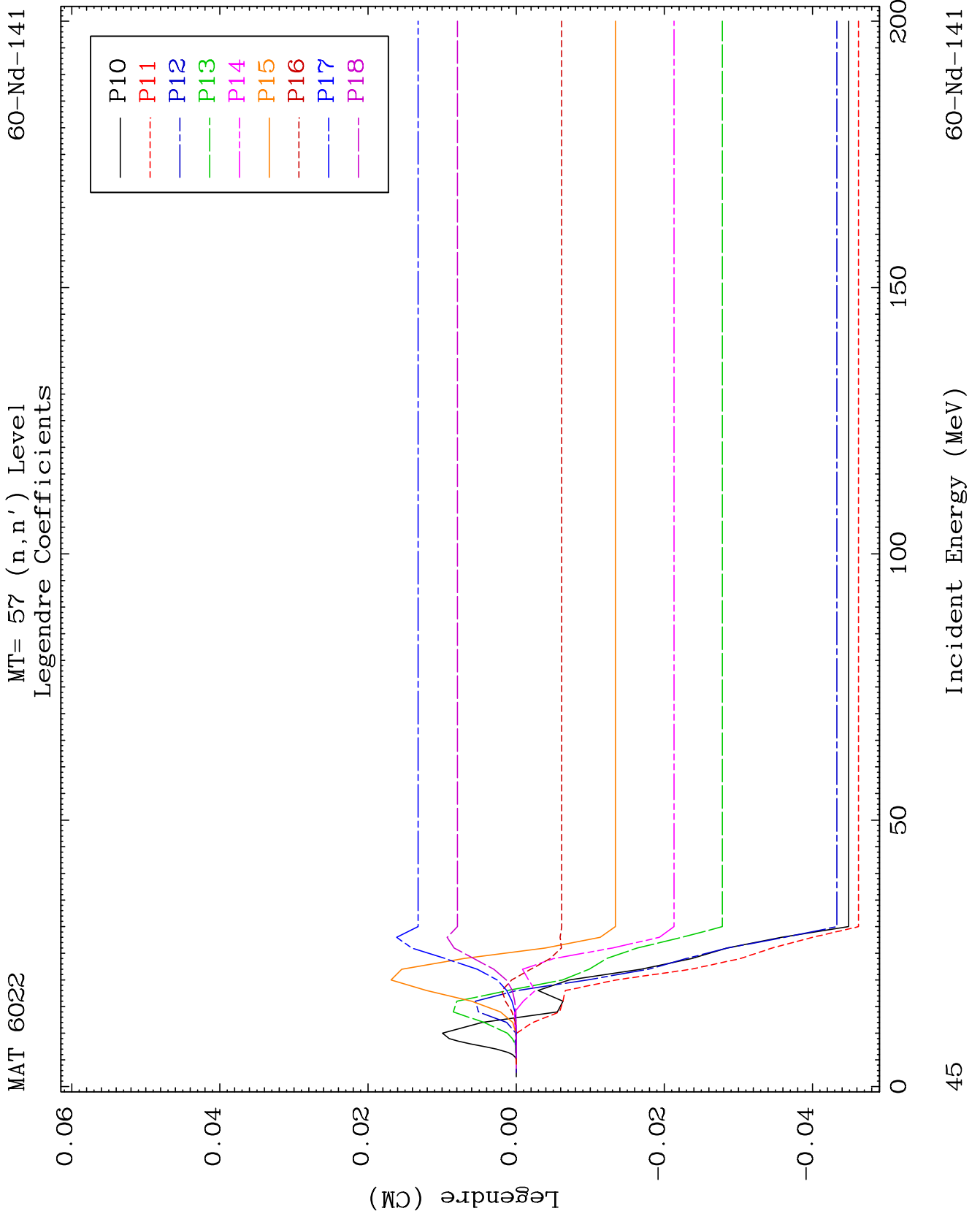
MAT 6022

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

60-Nd-141



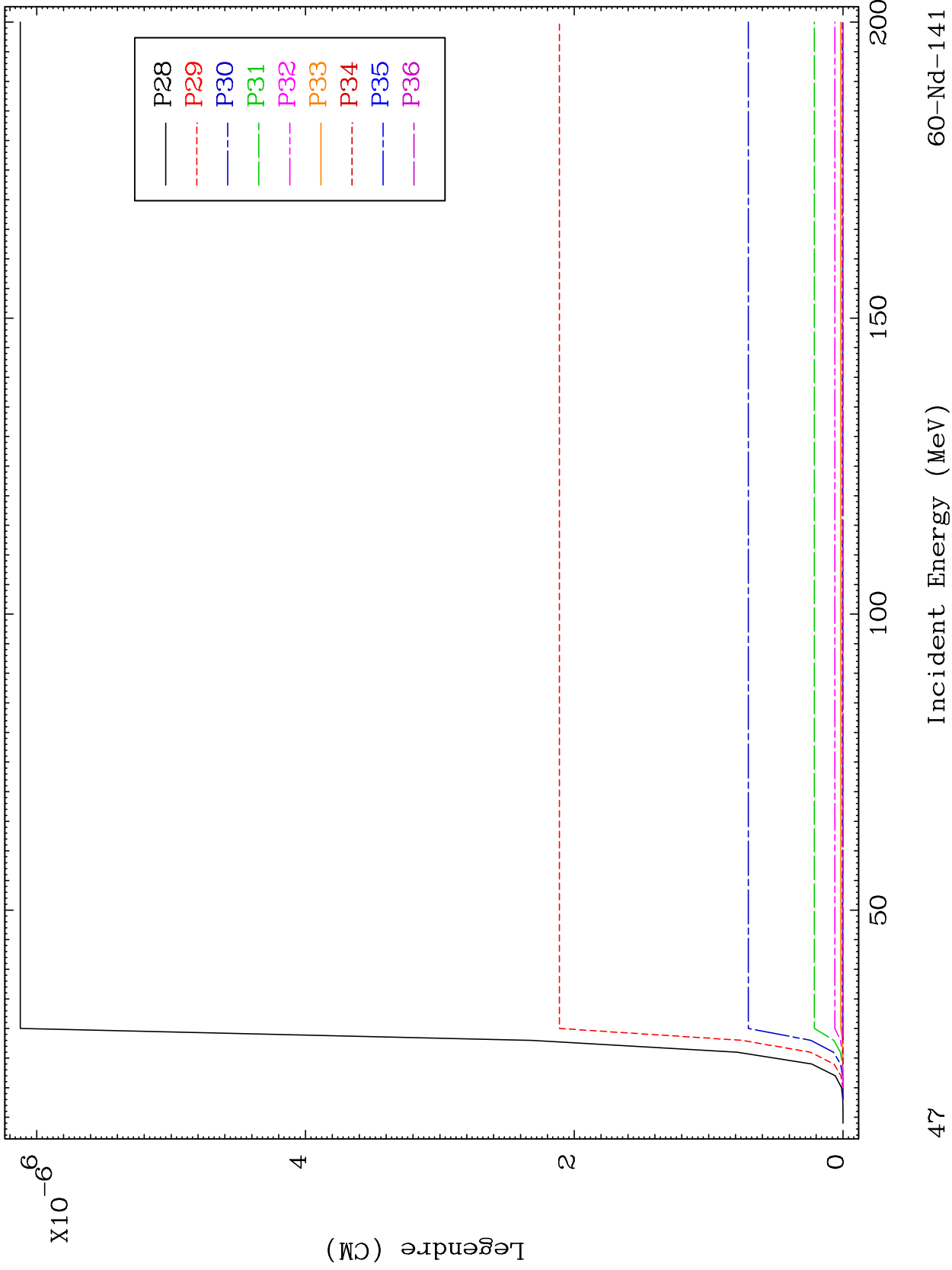




MAT 6022

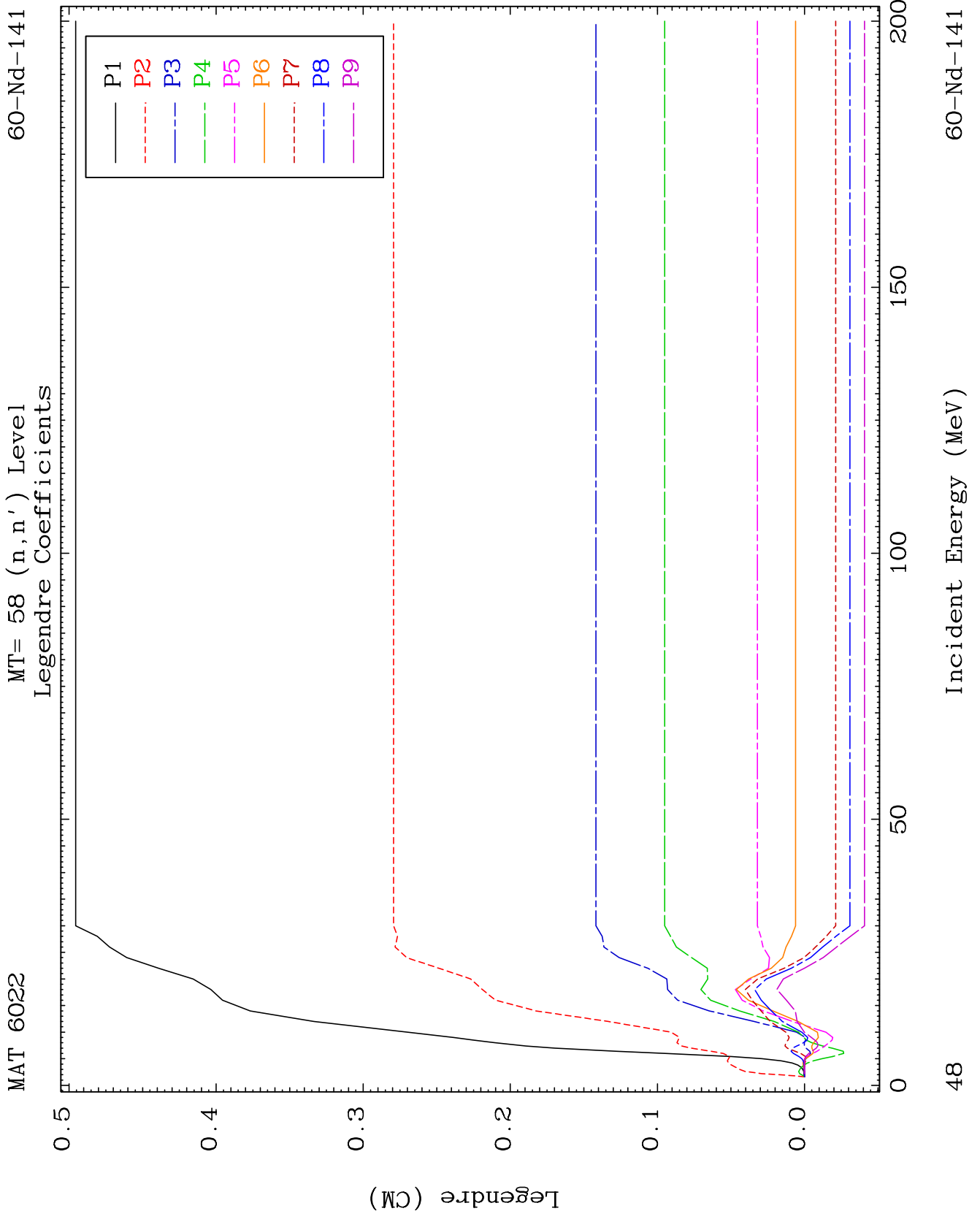
MT= 57 (n,n') Level
Legendre Coefficients

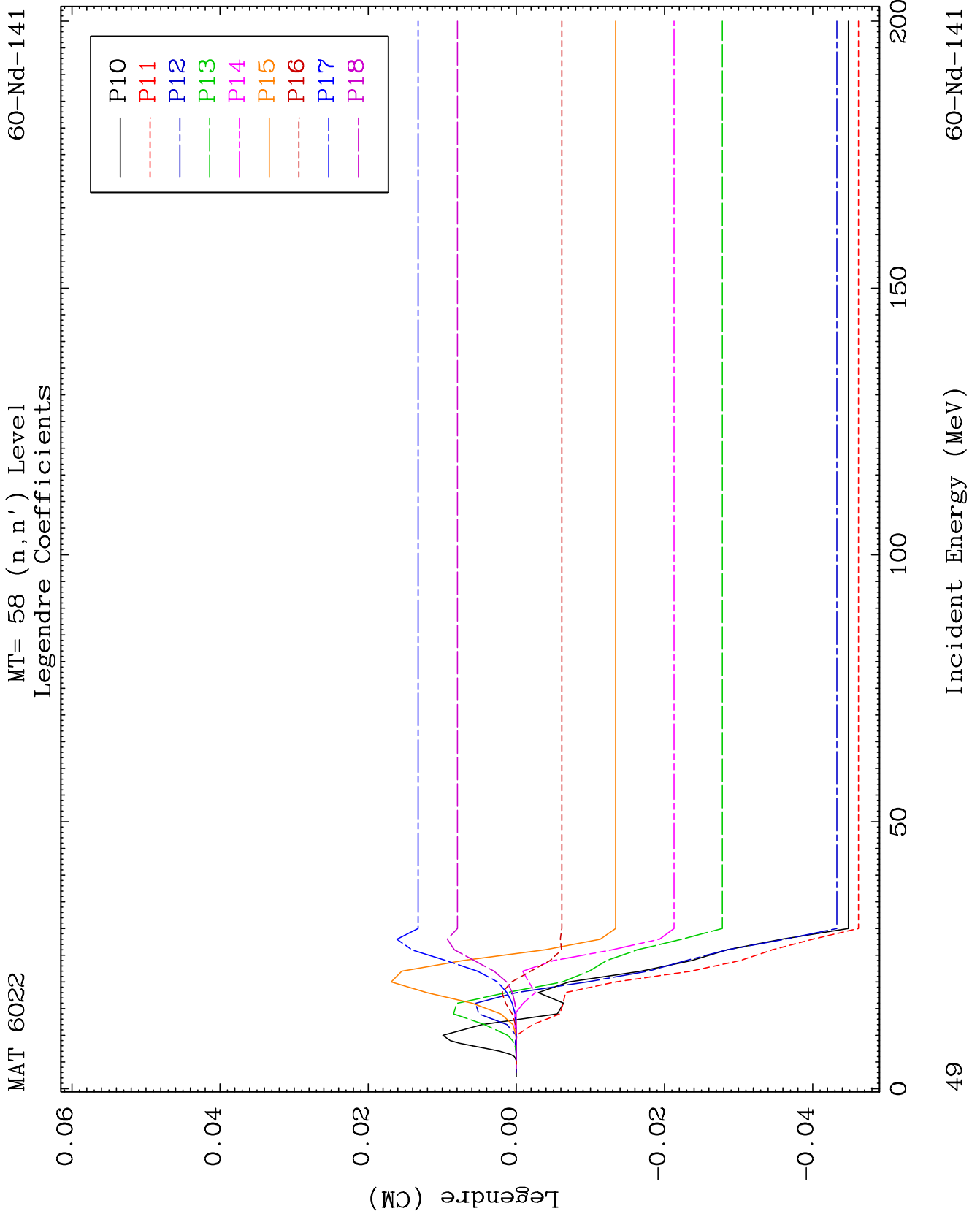
60-Nd-141

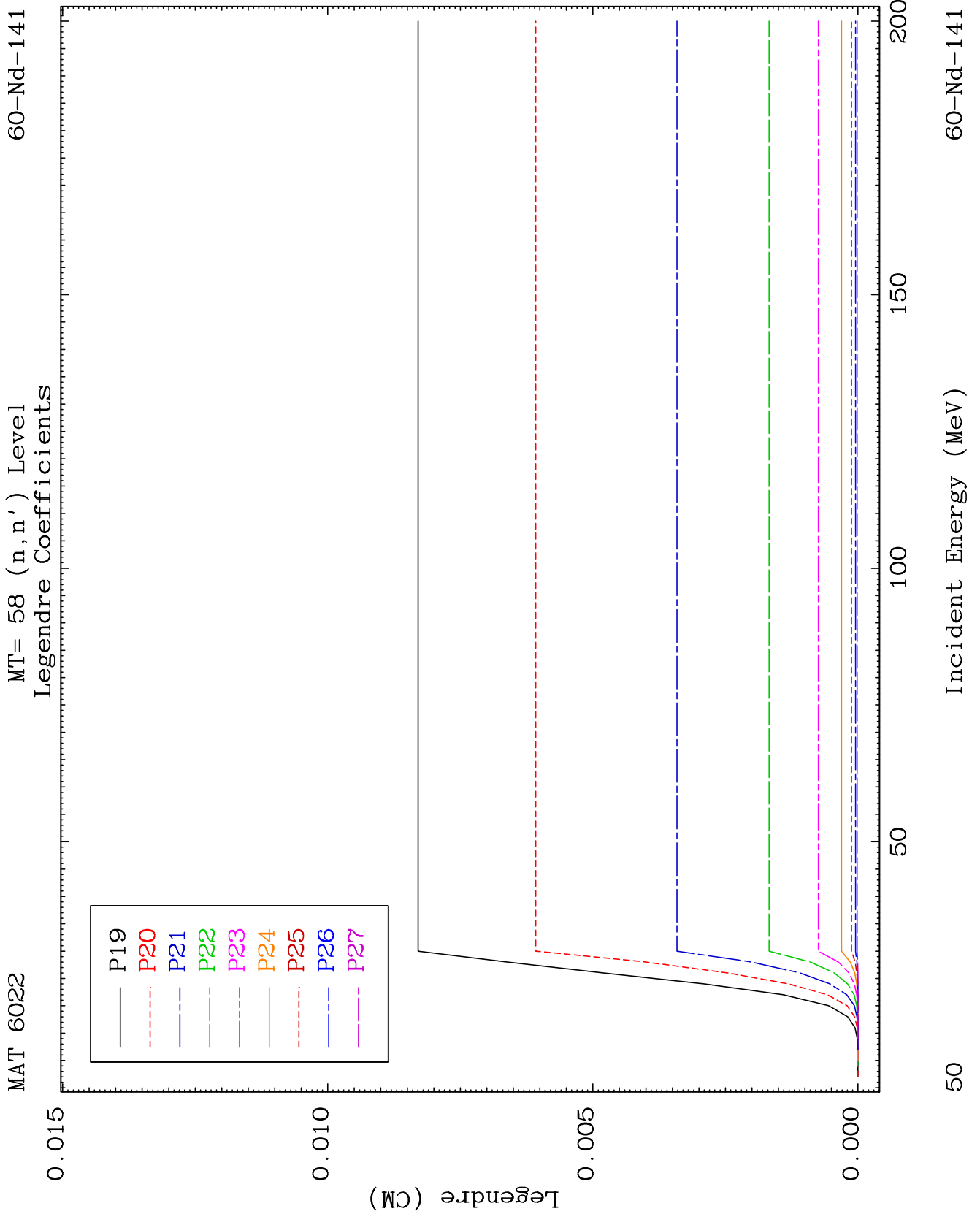


47

60-Nd-141



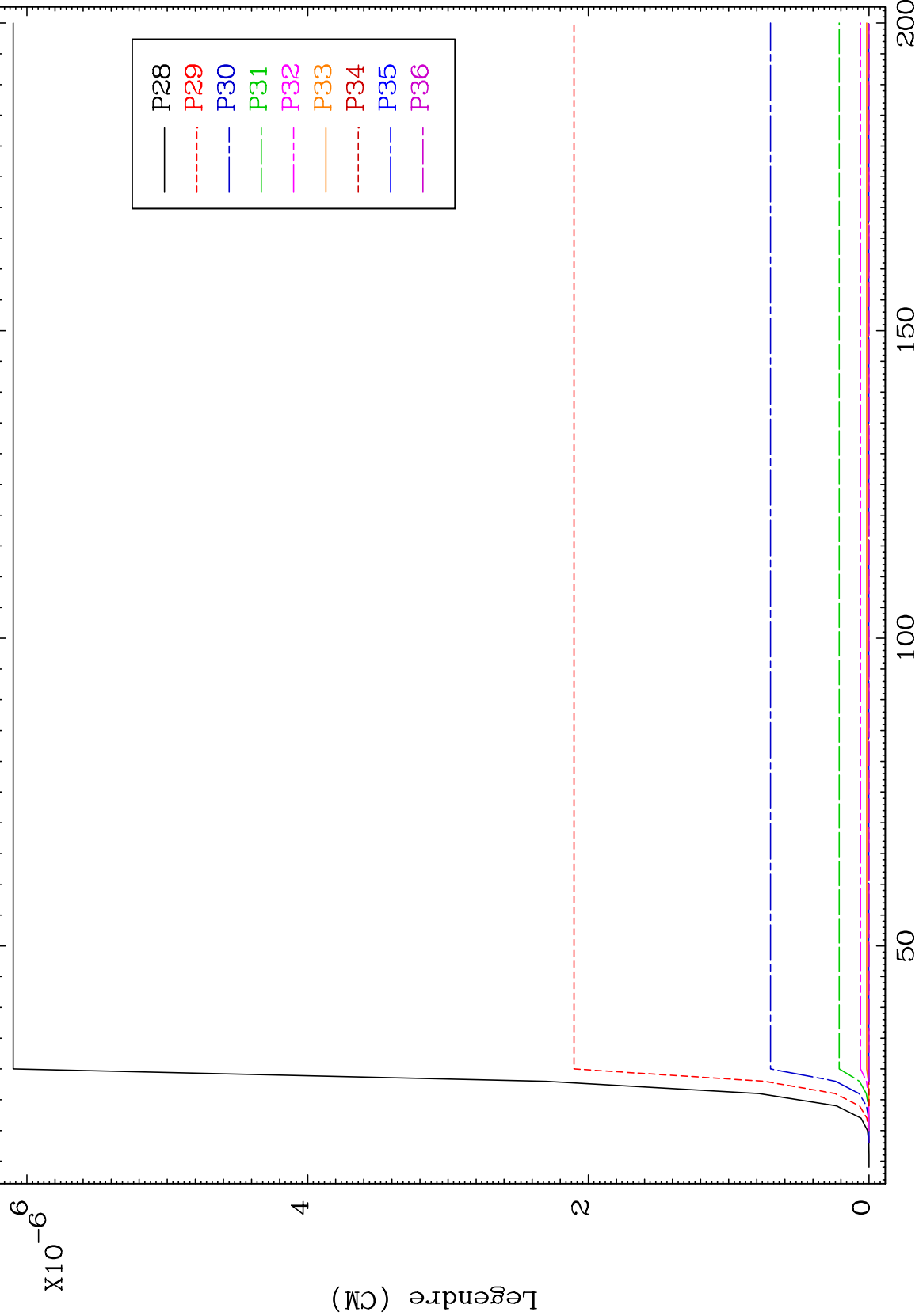




MAT 6022

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

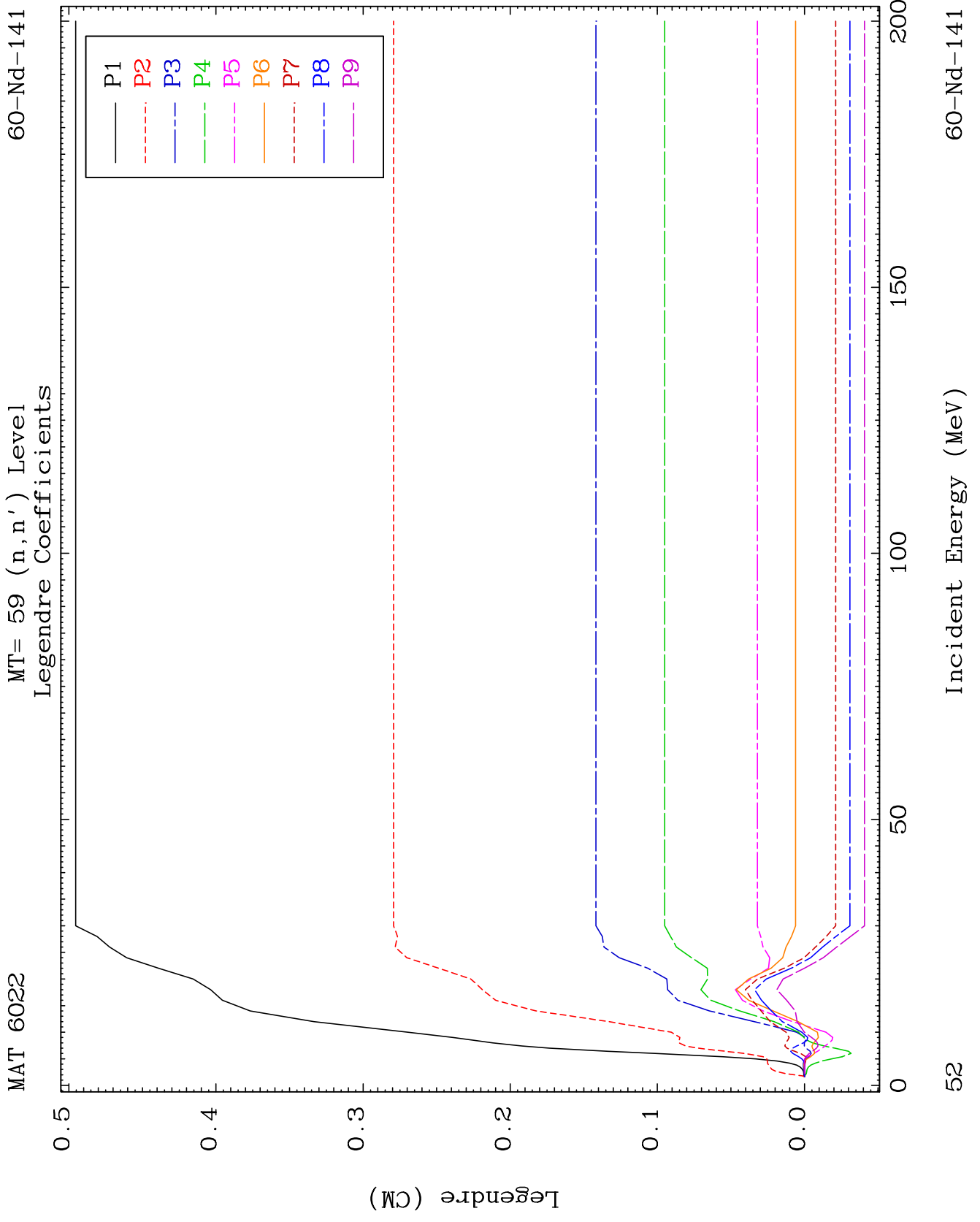
60-Nd-141

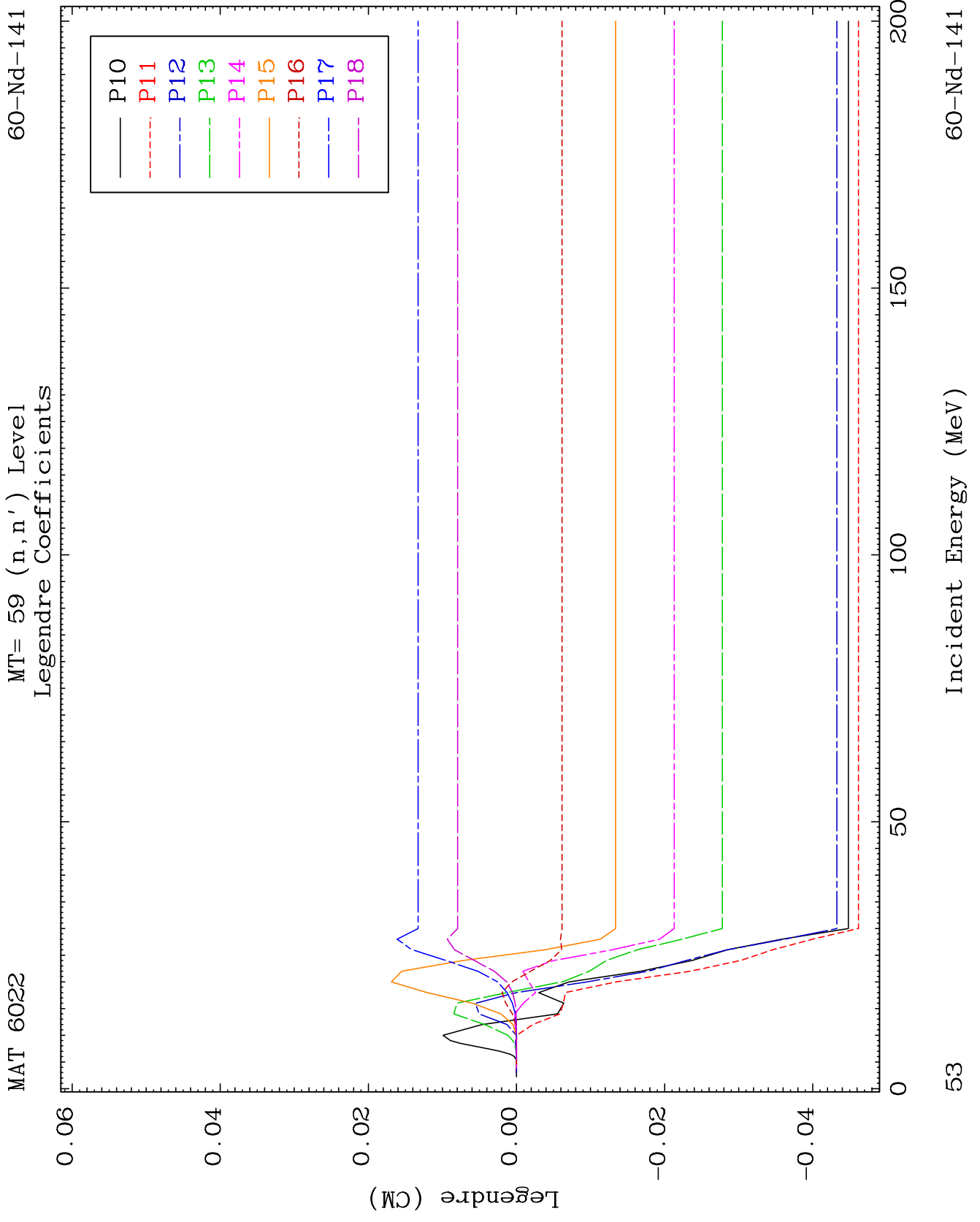


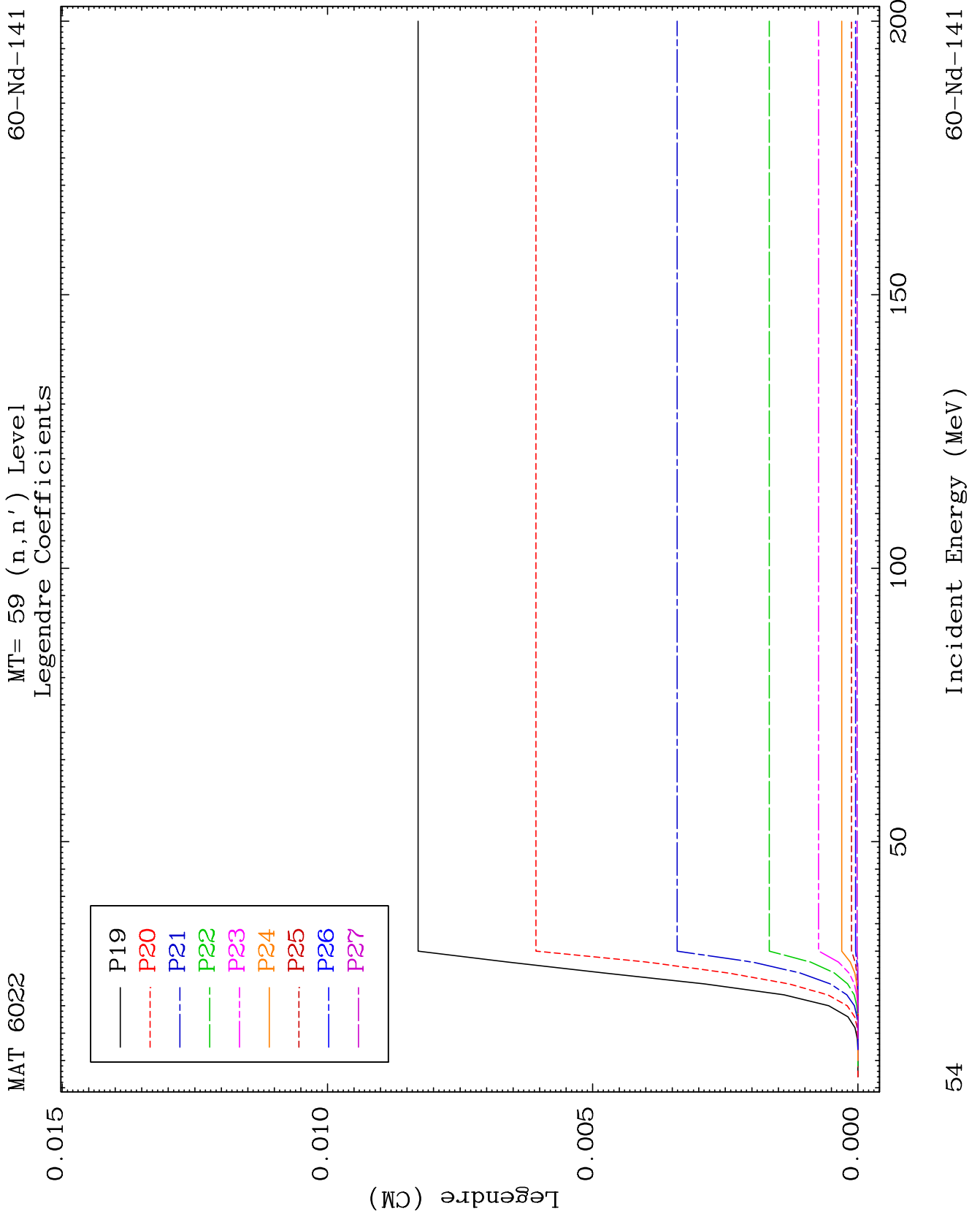
51

Incident Energy (MeV)

60-Nd-141



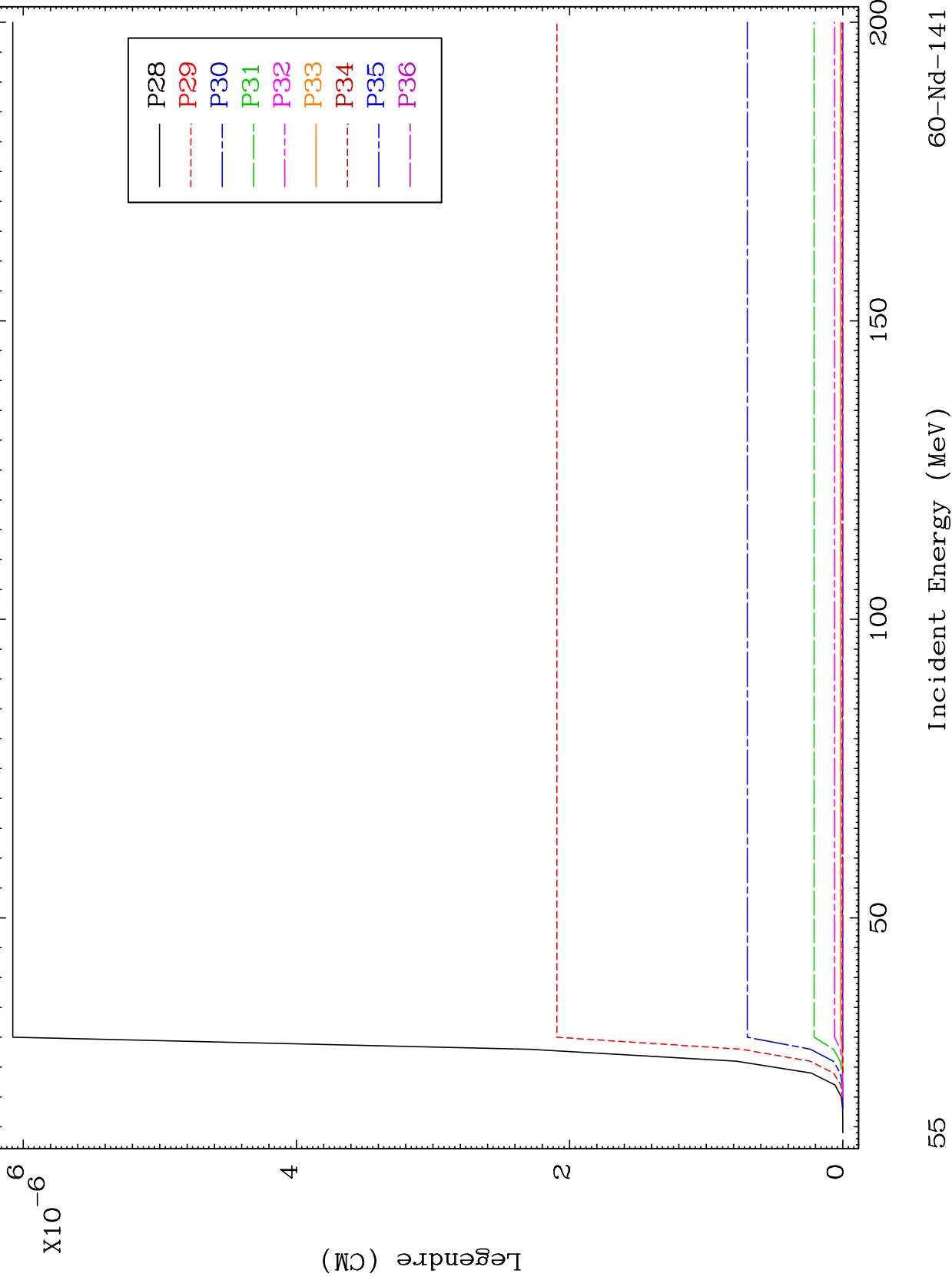


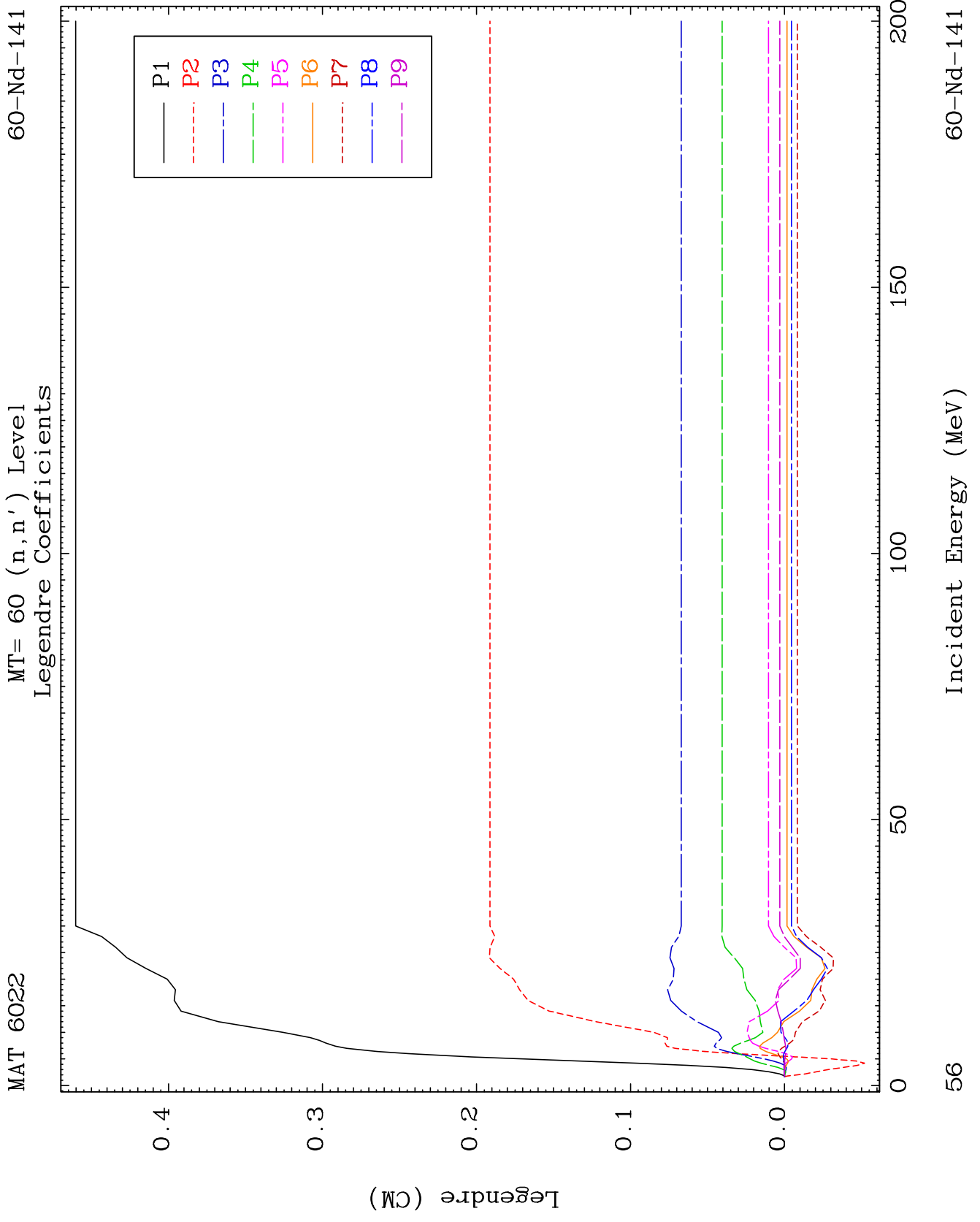


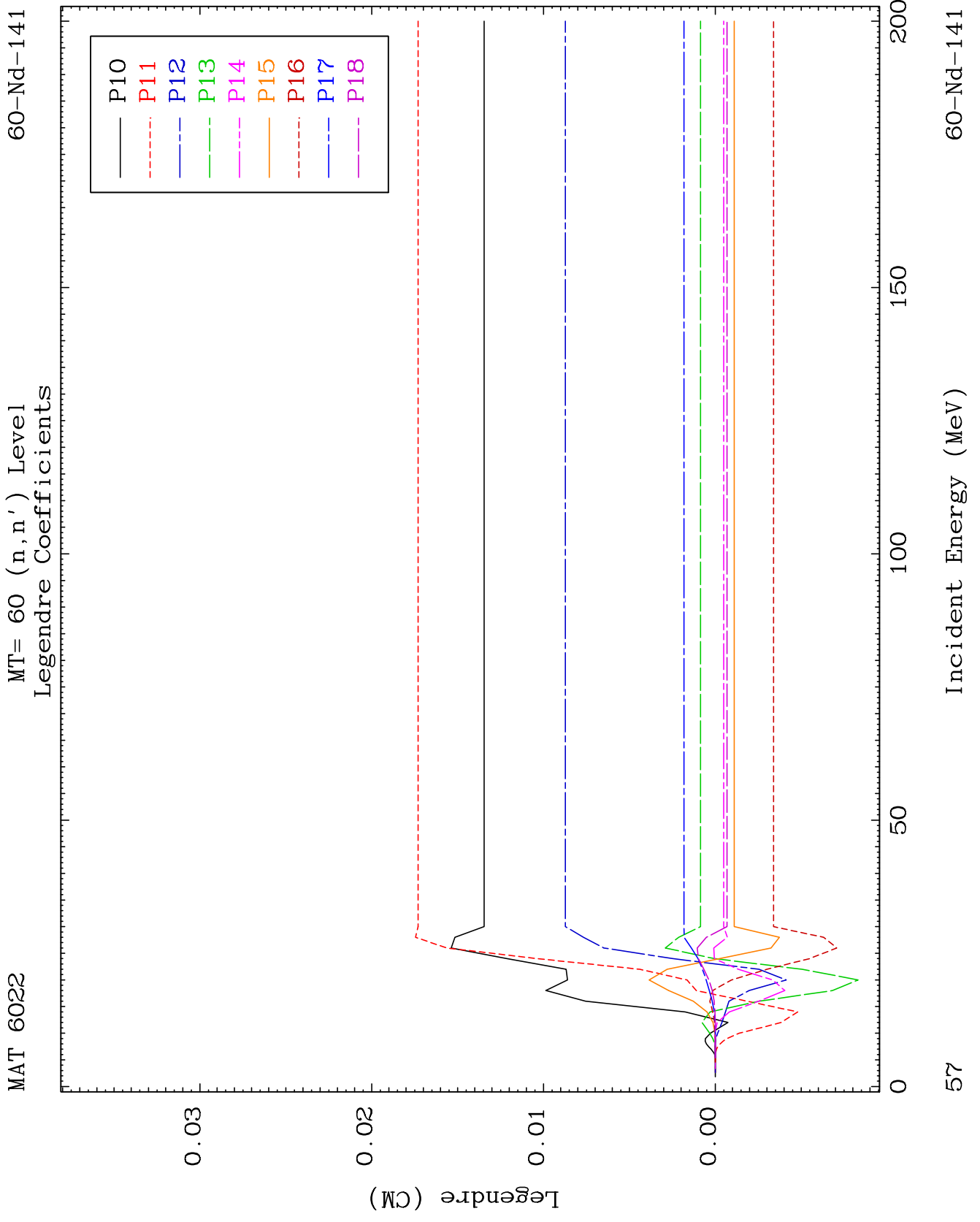
MAT 6022

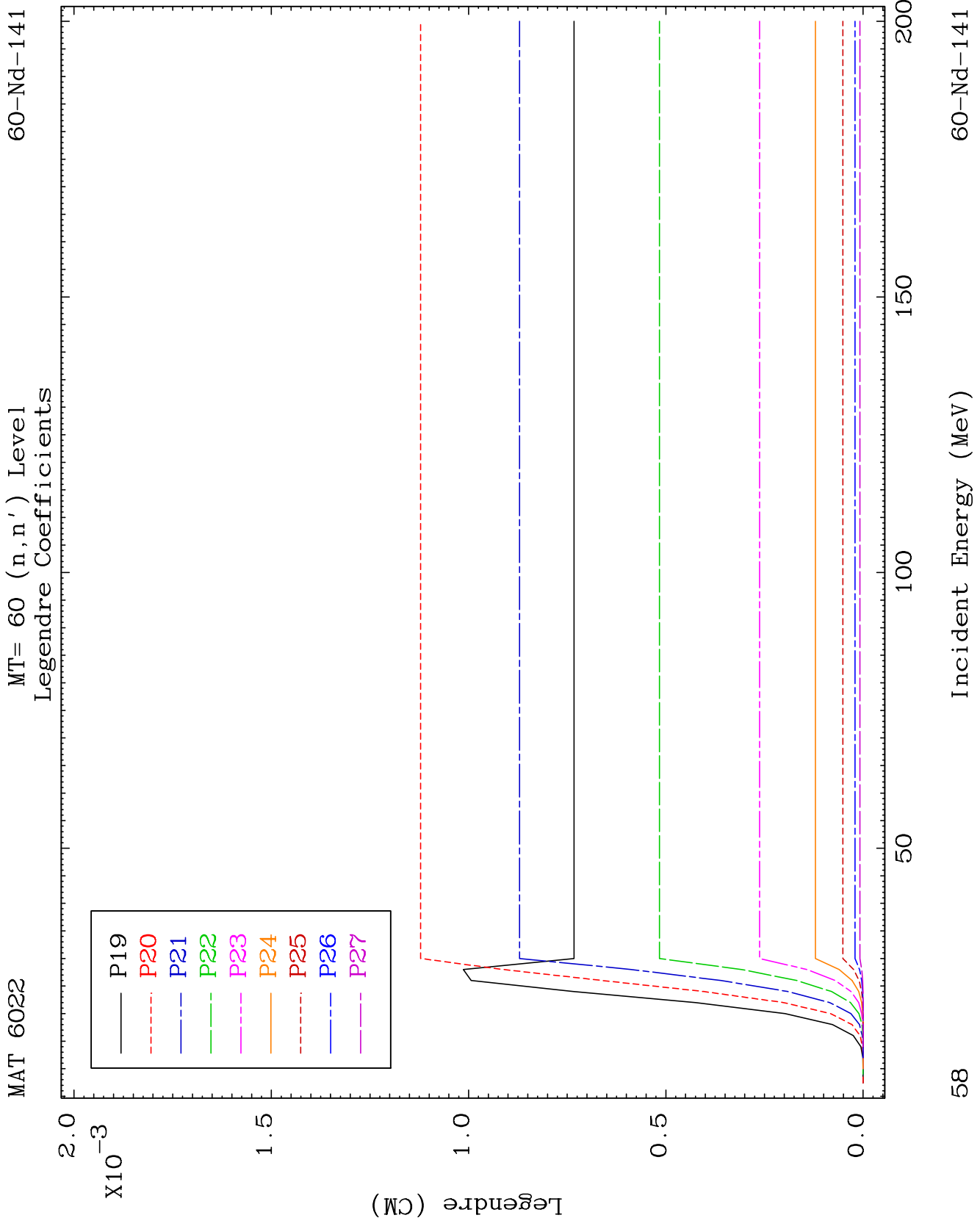
MT= 59 (n,n') Level
Legendre Coefficients

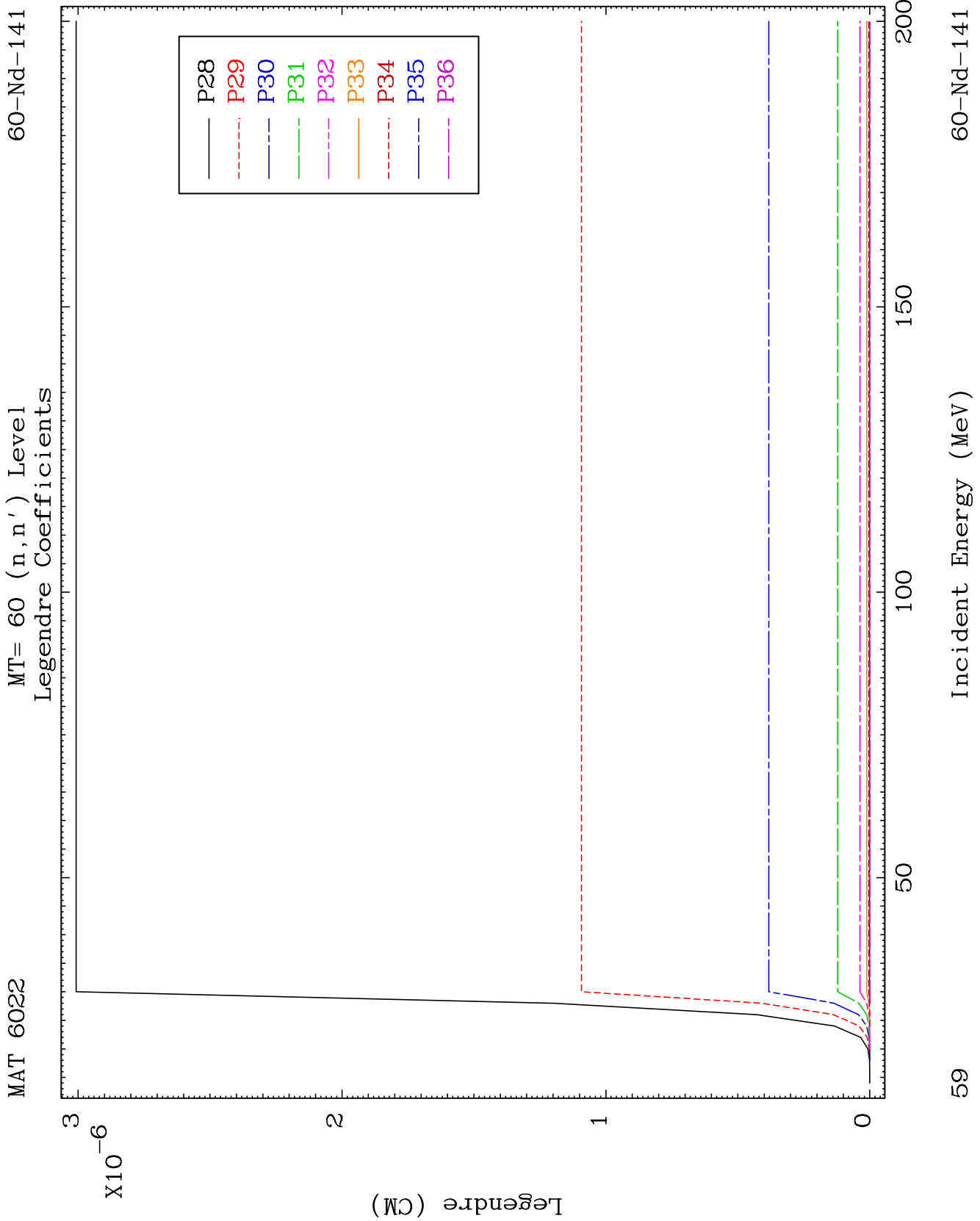
60-Nd-141

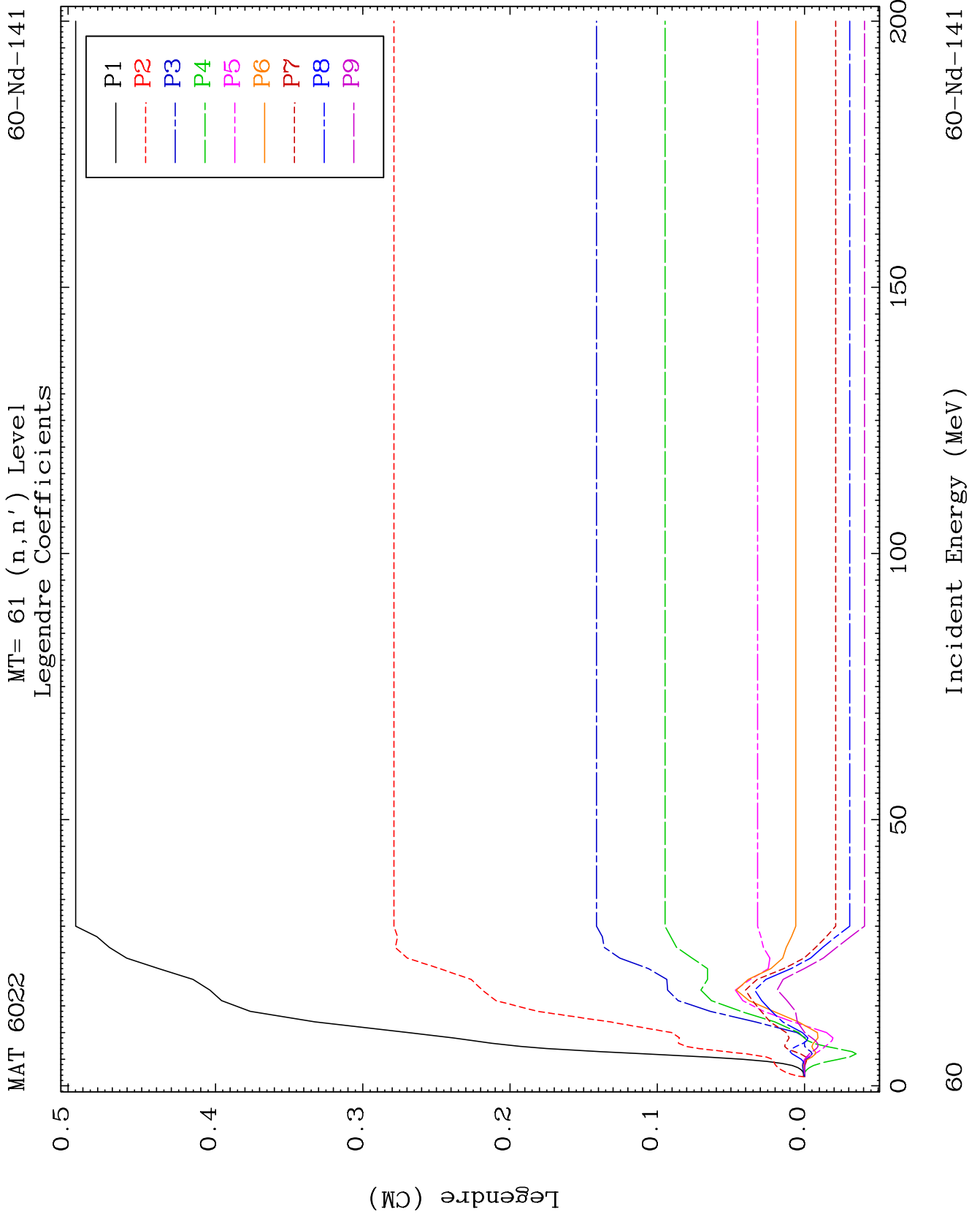


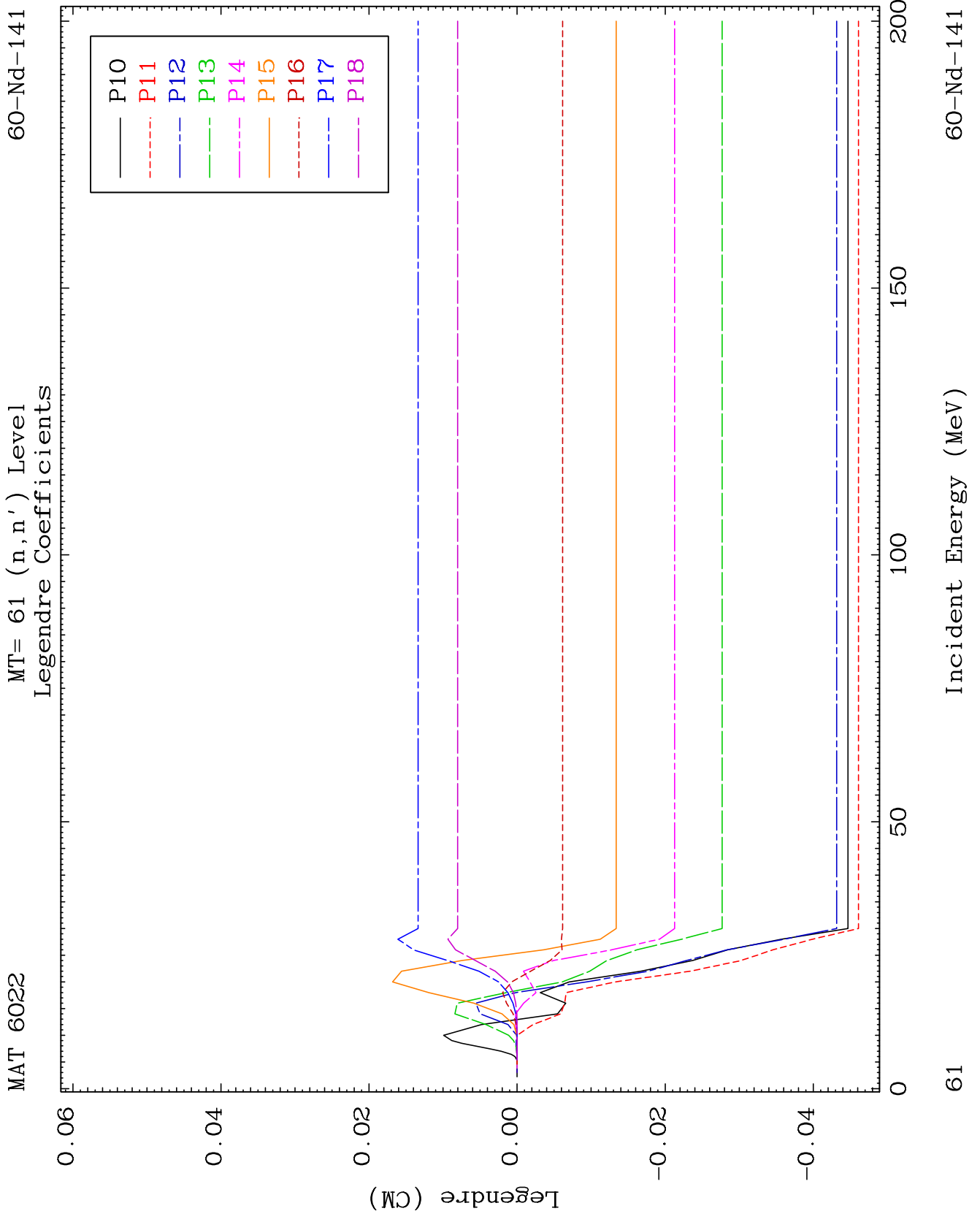








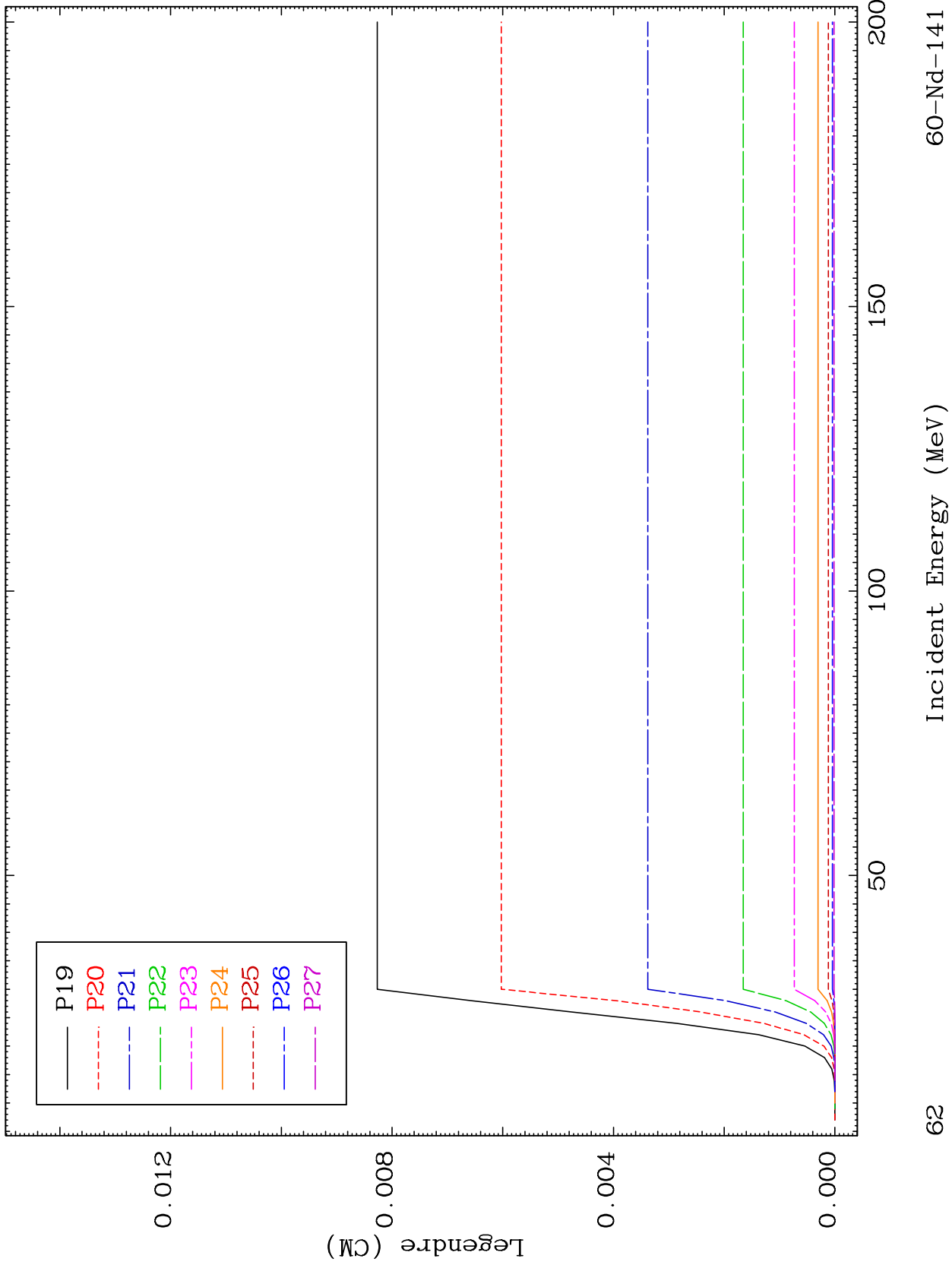




MAT 6022

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

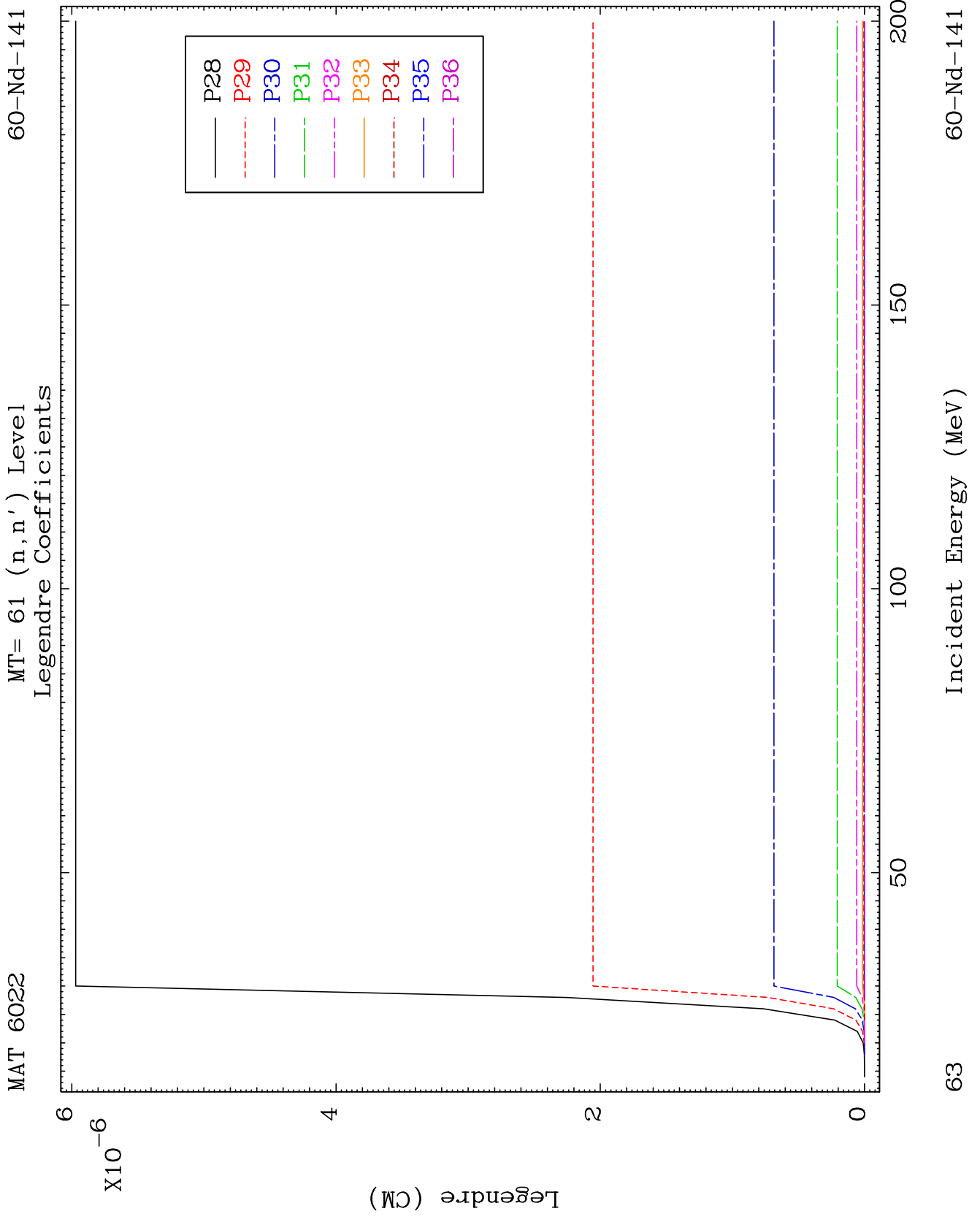
60-Nd-141

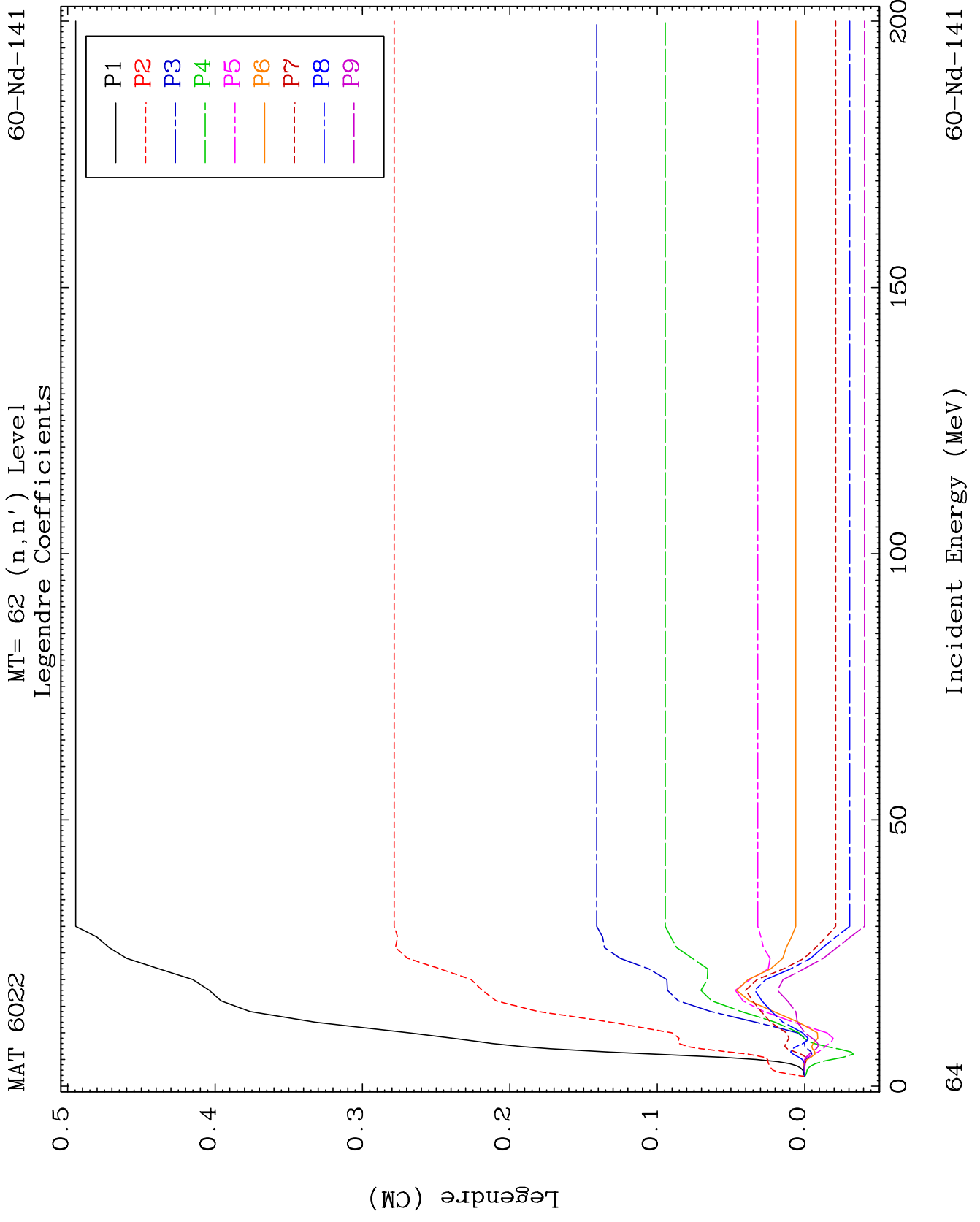


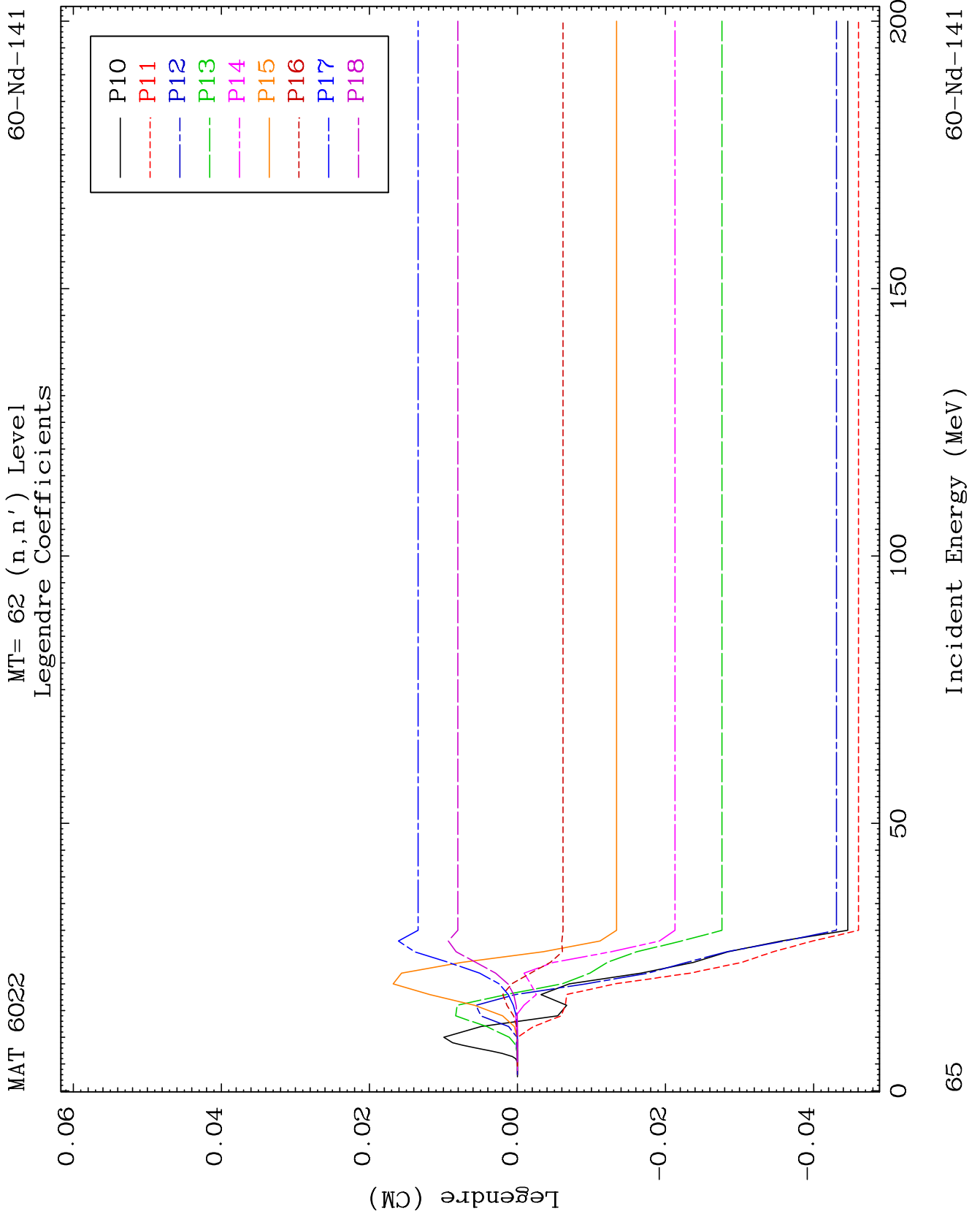
62

Incident Energy (MeV)

60-Nd-141



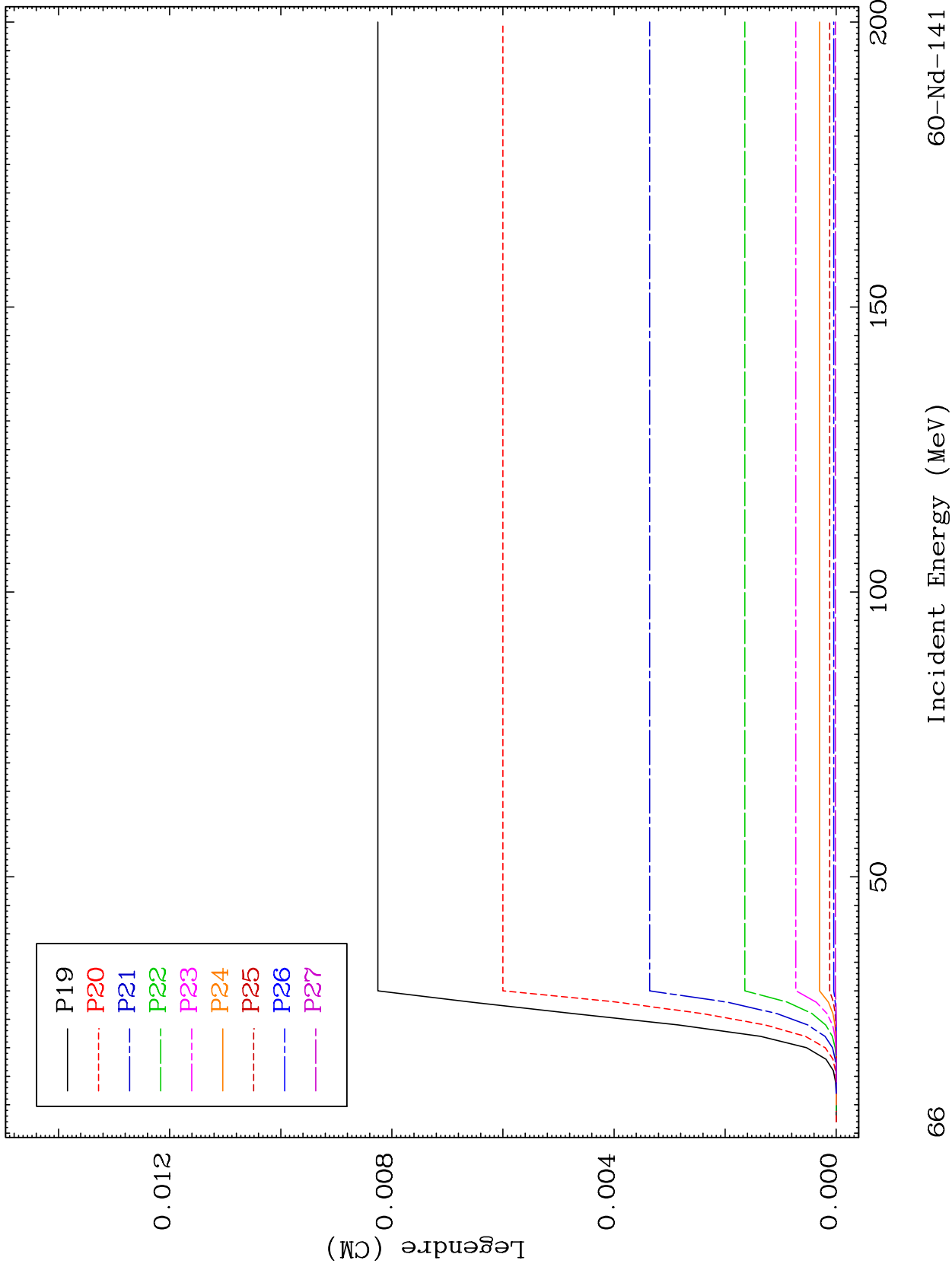




MAT 6022

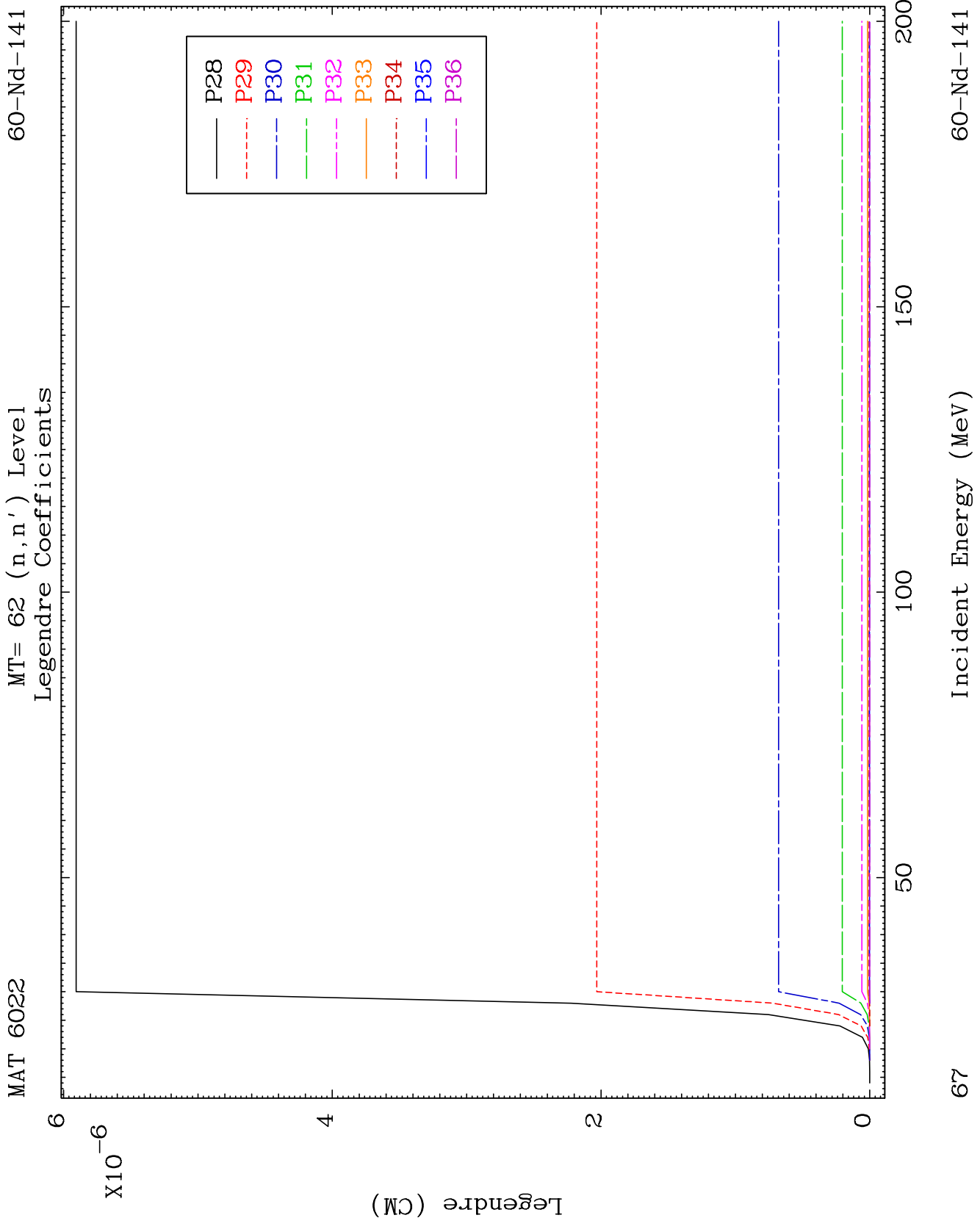
MT= 62 (n,n') Level
Legendre Coefficients

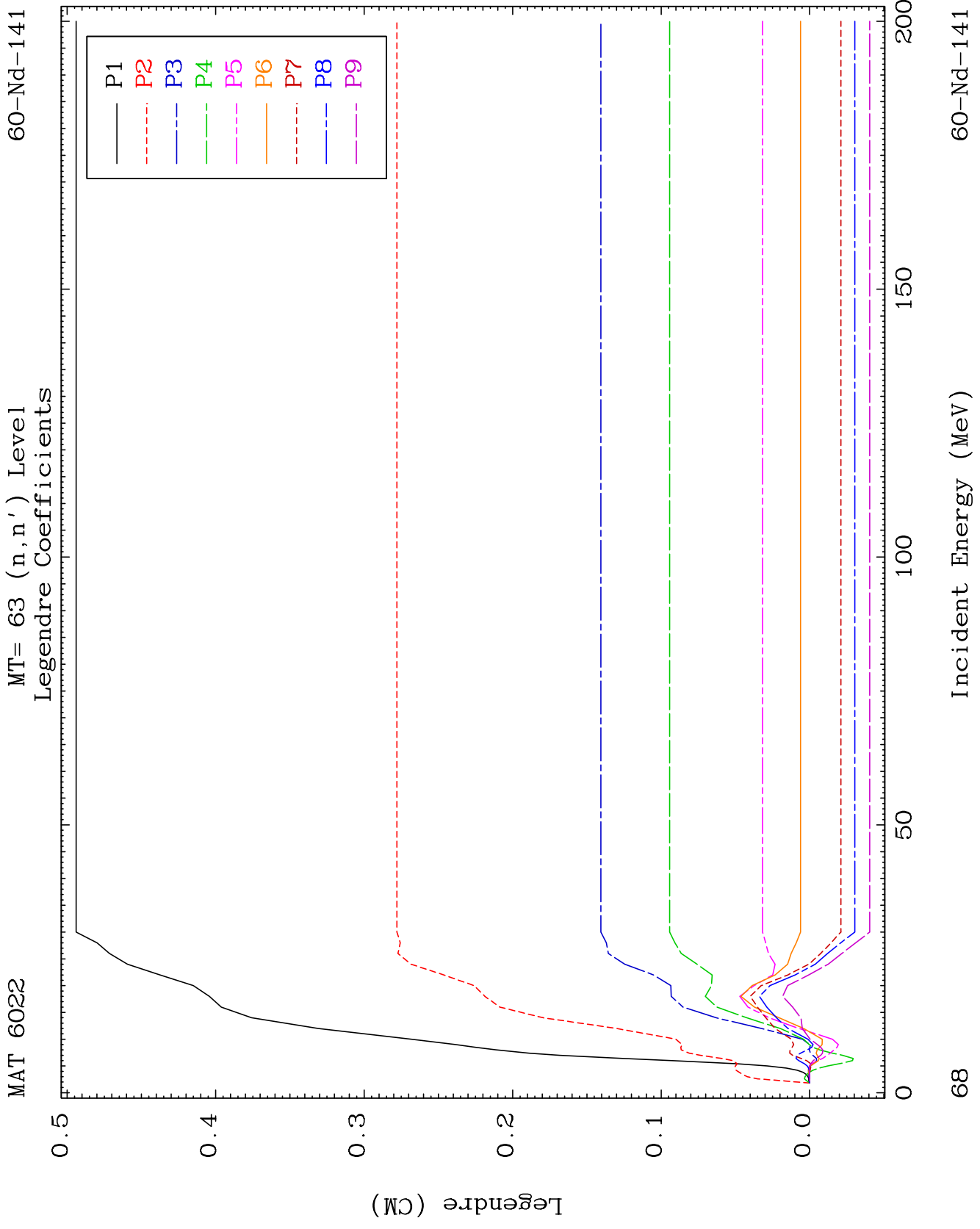
60-Nd-141

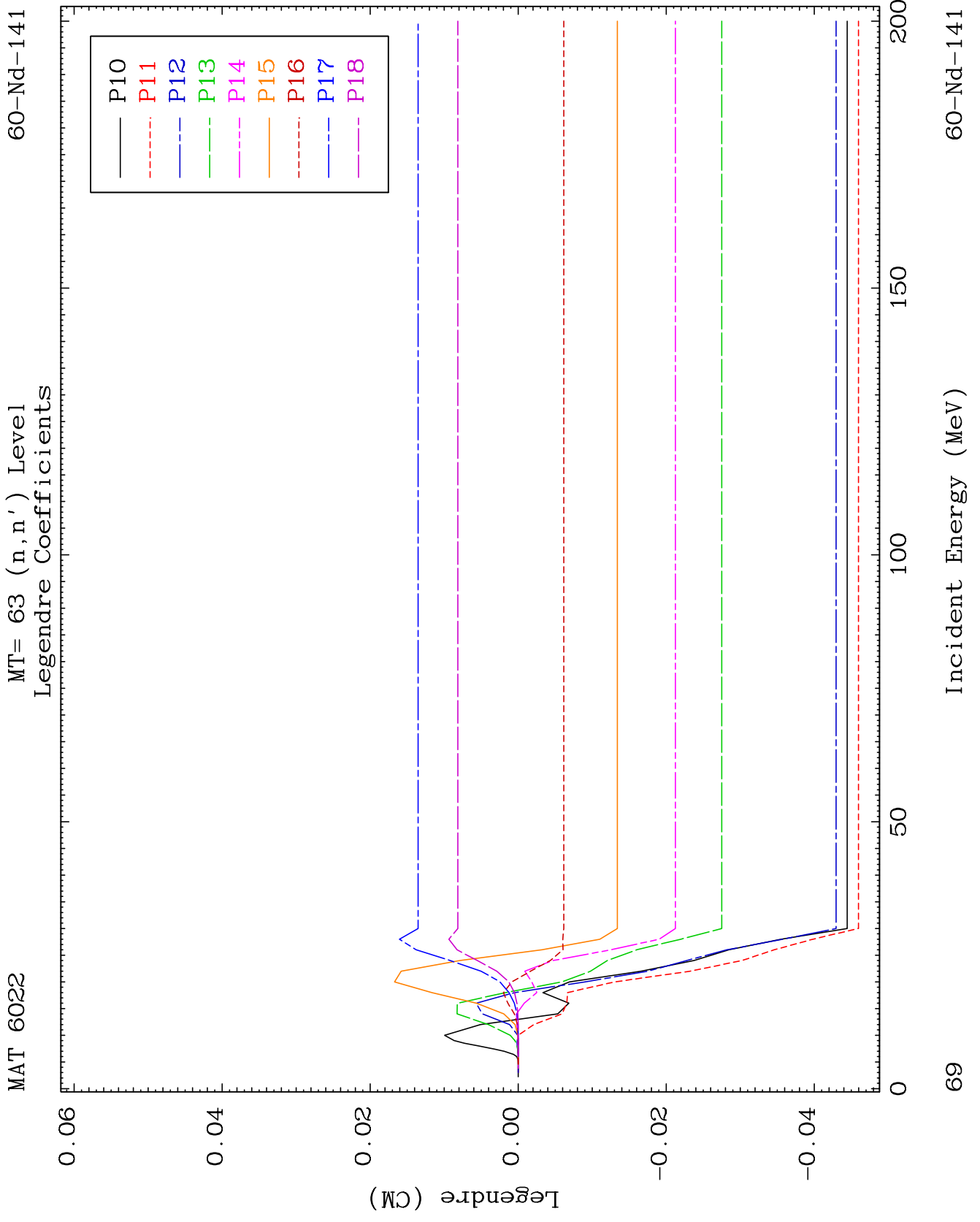


66

60-Nd-141



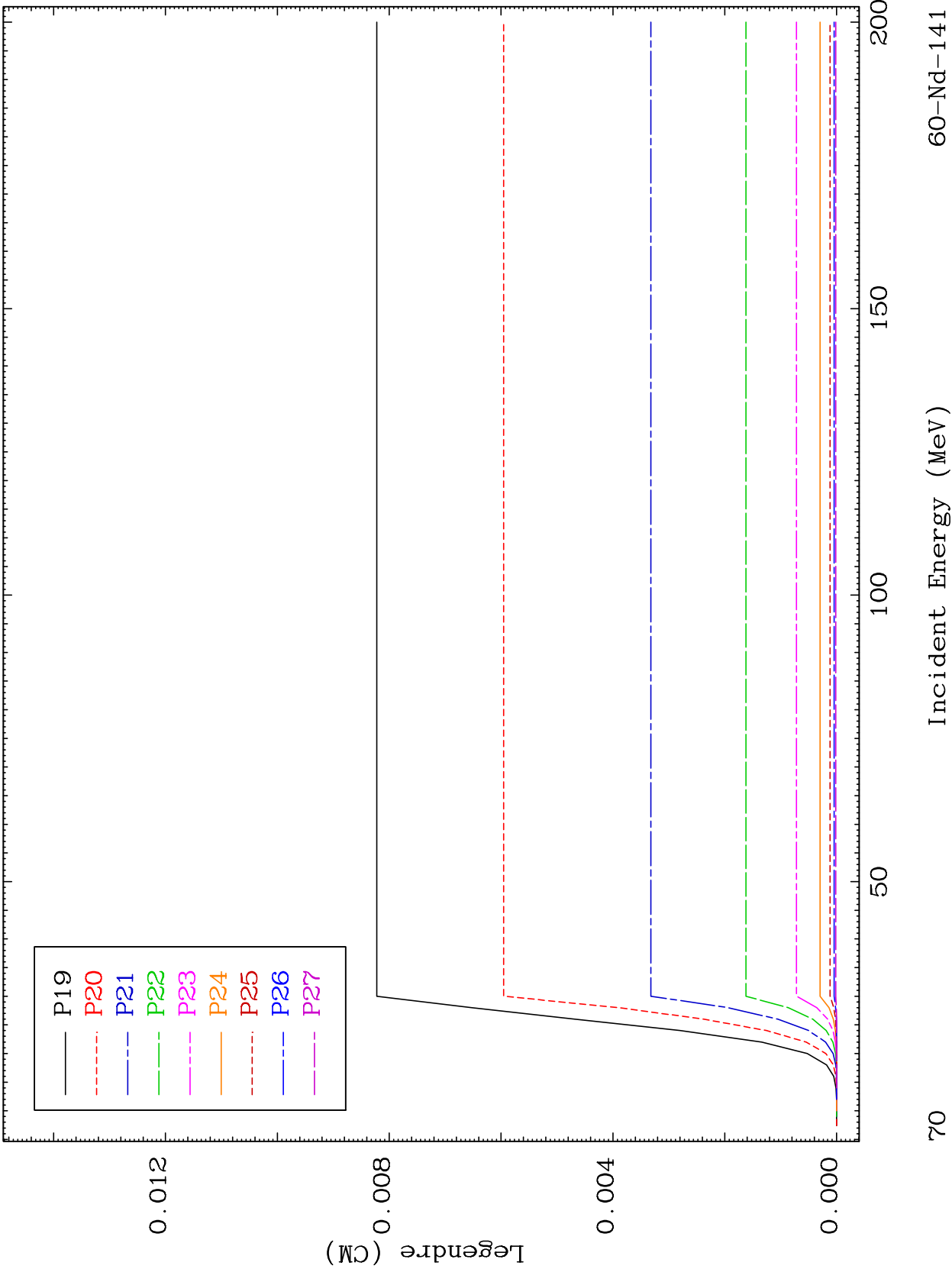




MAT 6022

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

60-Nd-141



70

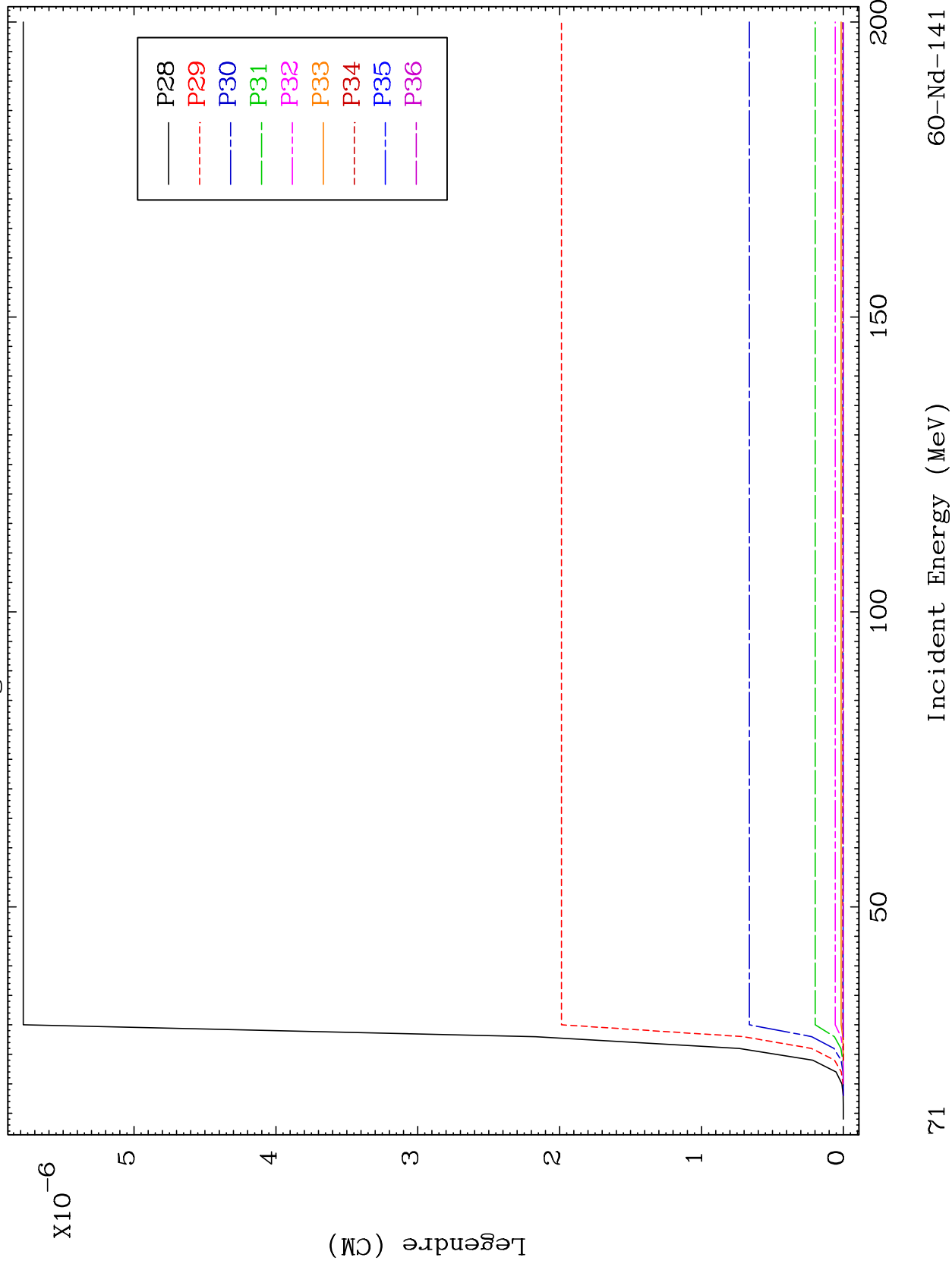
Incident Energy (MeV)

60-Nd-141

MAT 6022

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

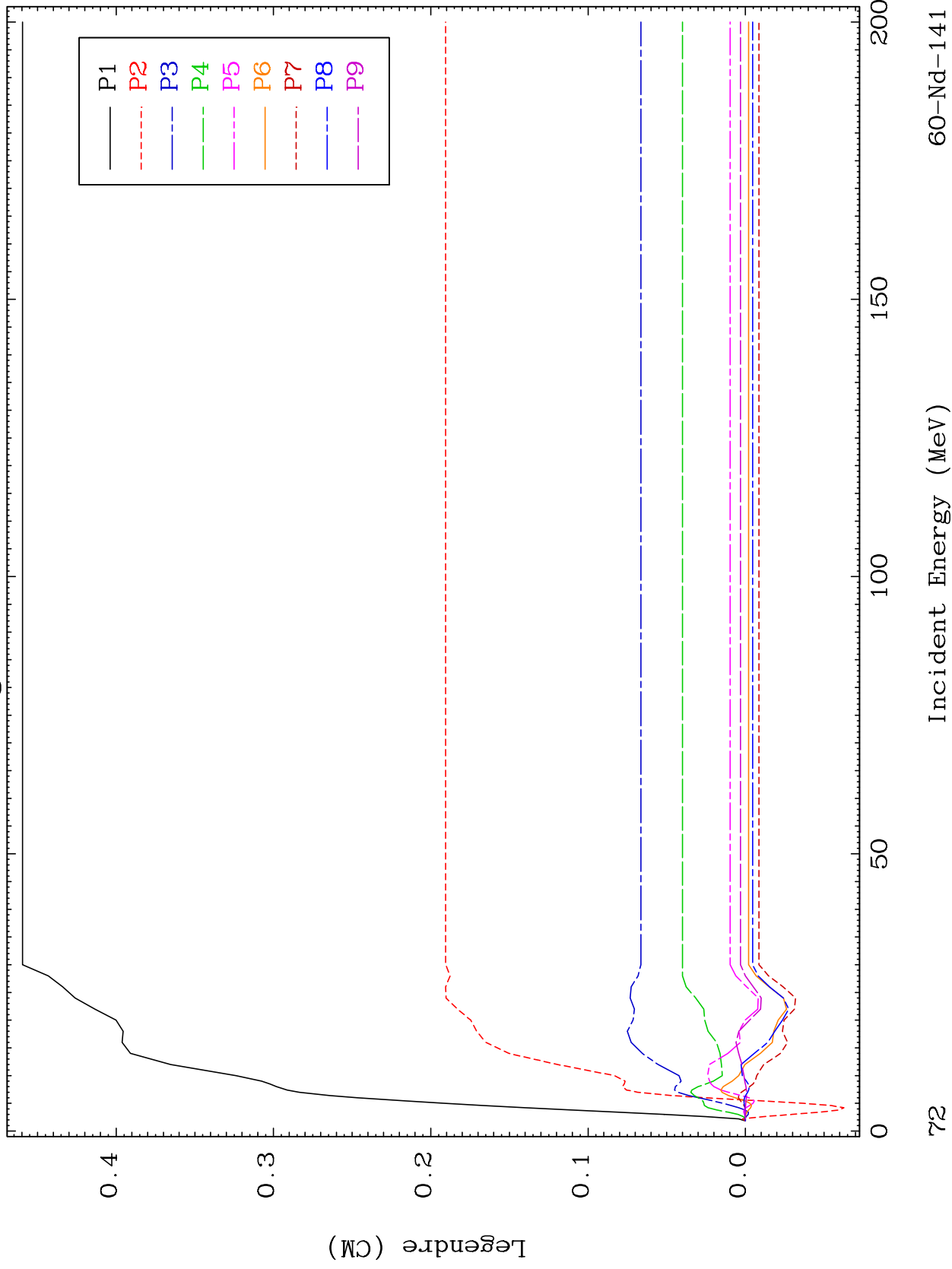
60-Nd-141



MAT 6022

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

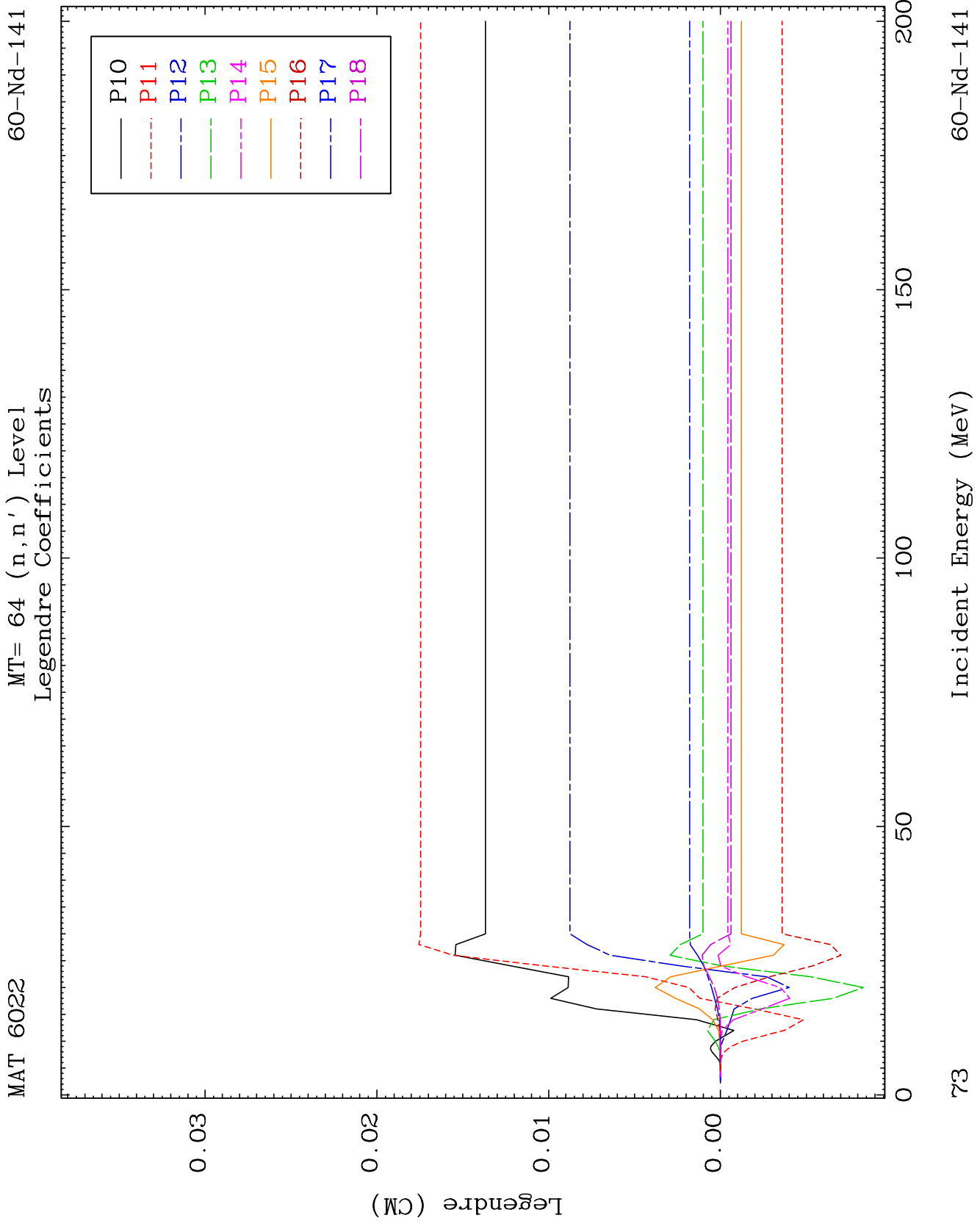
60-Nd-141

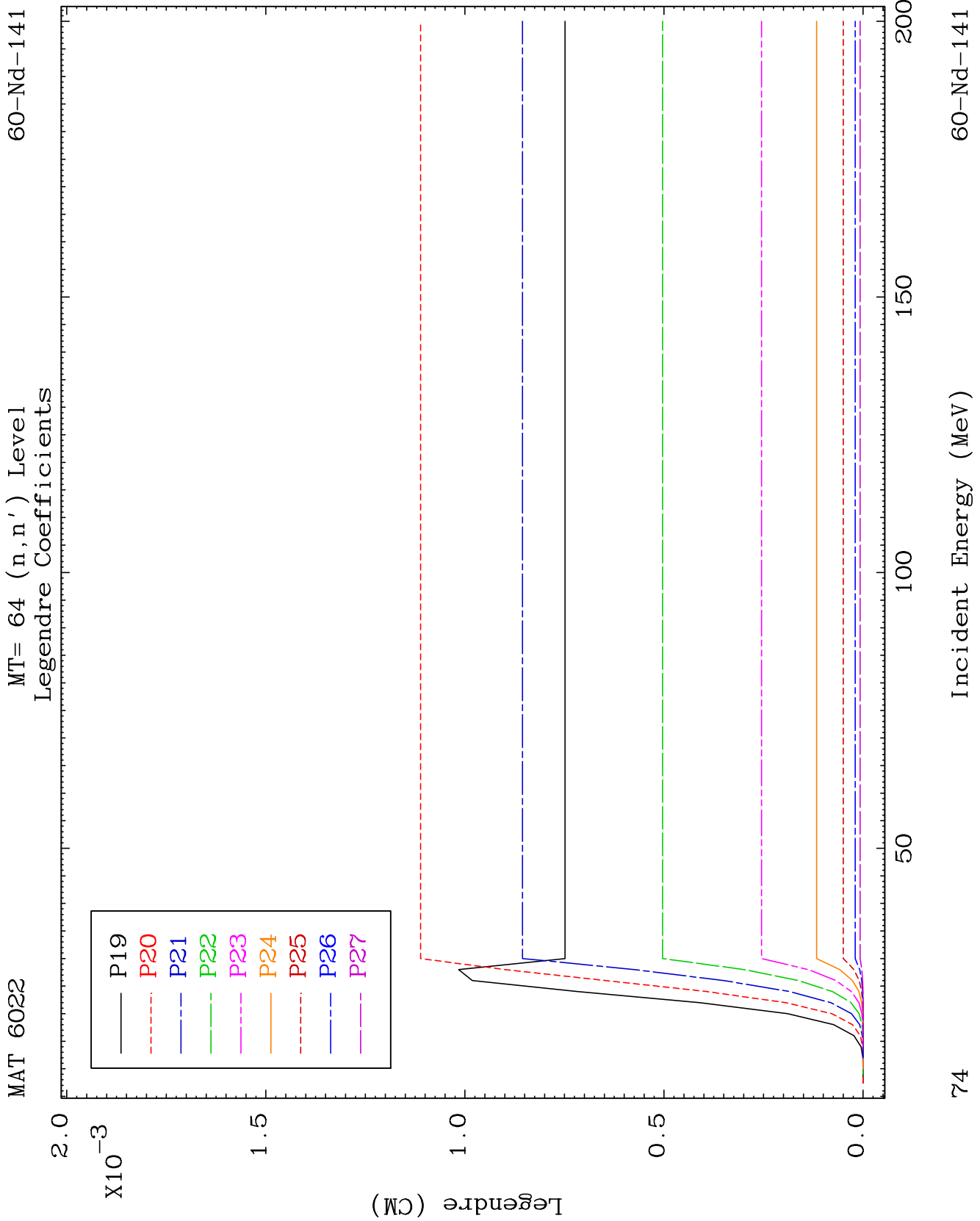


60-Nd-141

Incident Energy (MeV)

72

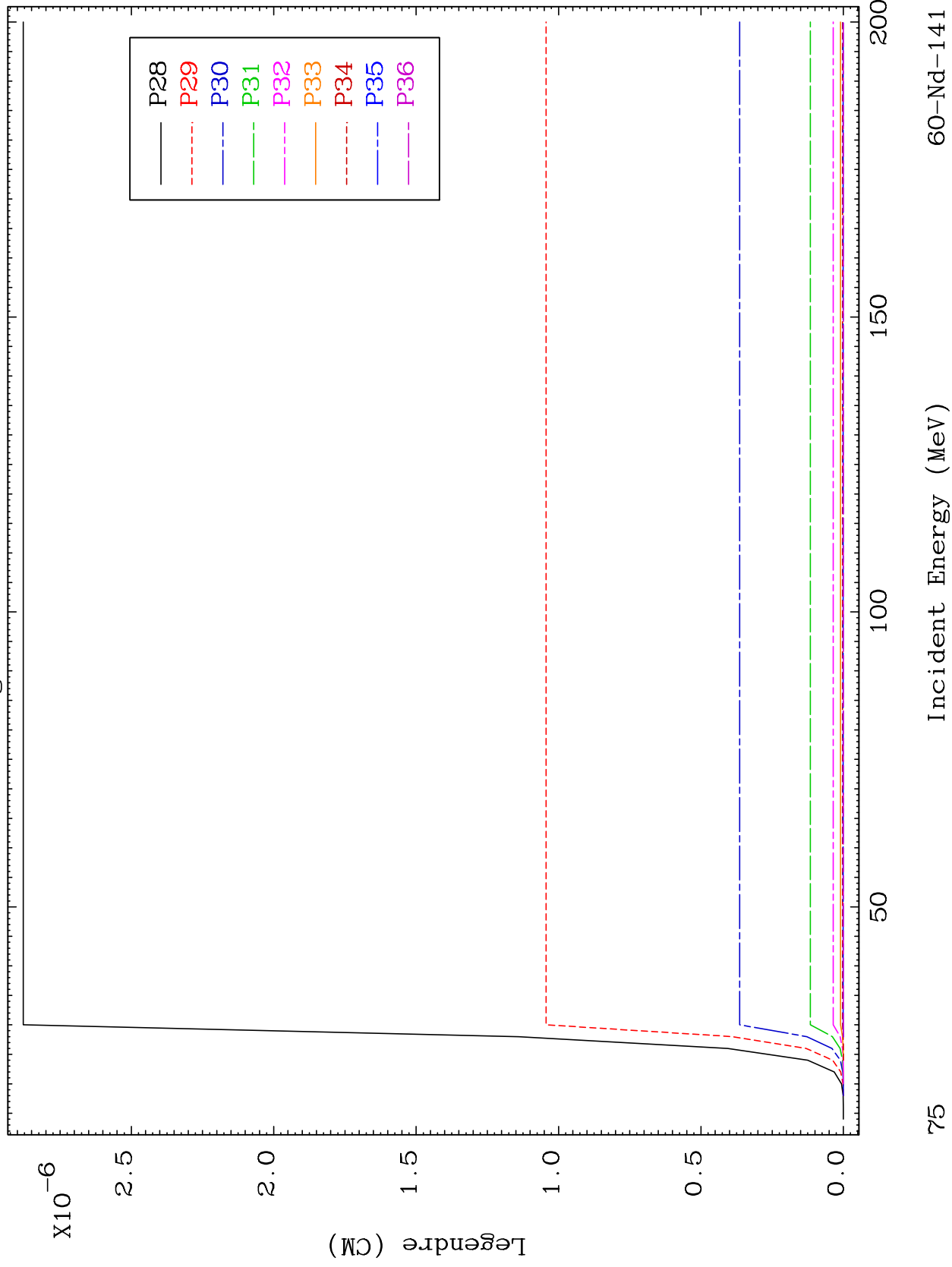




MAT 6022

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

60-Nd-141



75

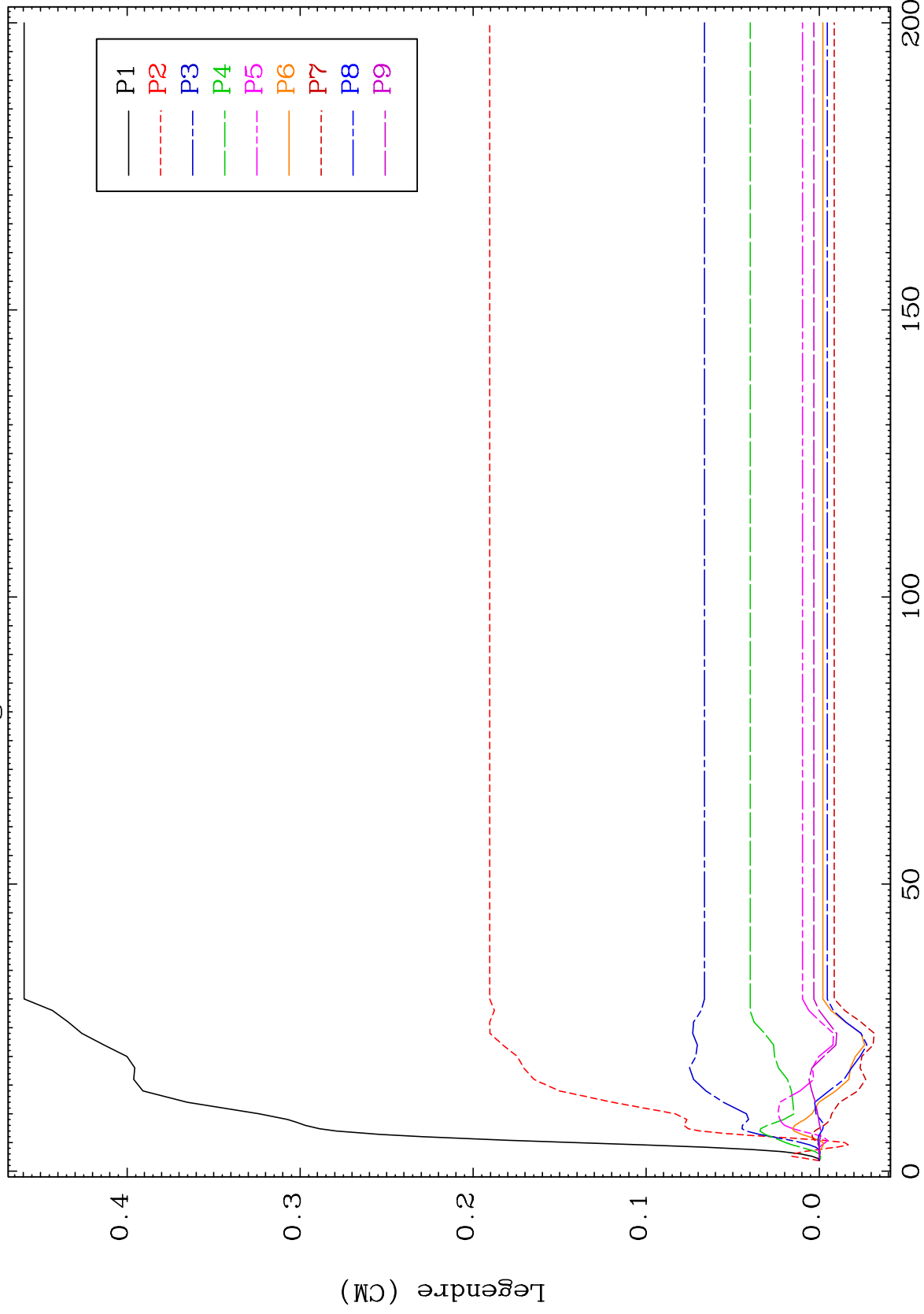
Incident Energy (MeV)

60-Nd-141

MAT 6022

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

60-Nd-141



76

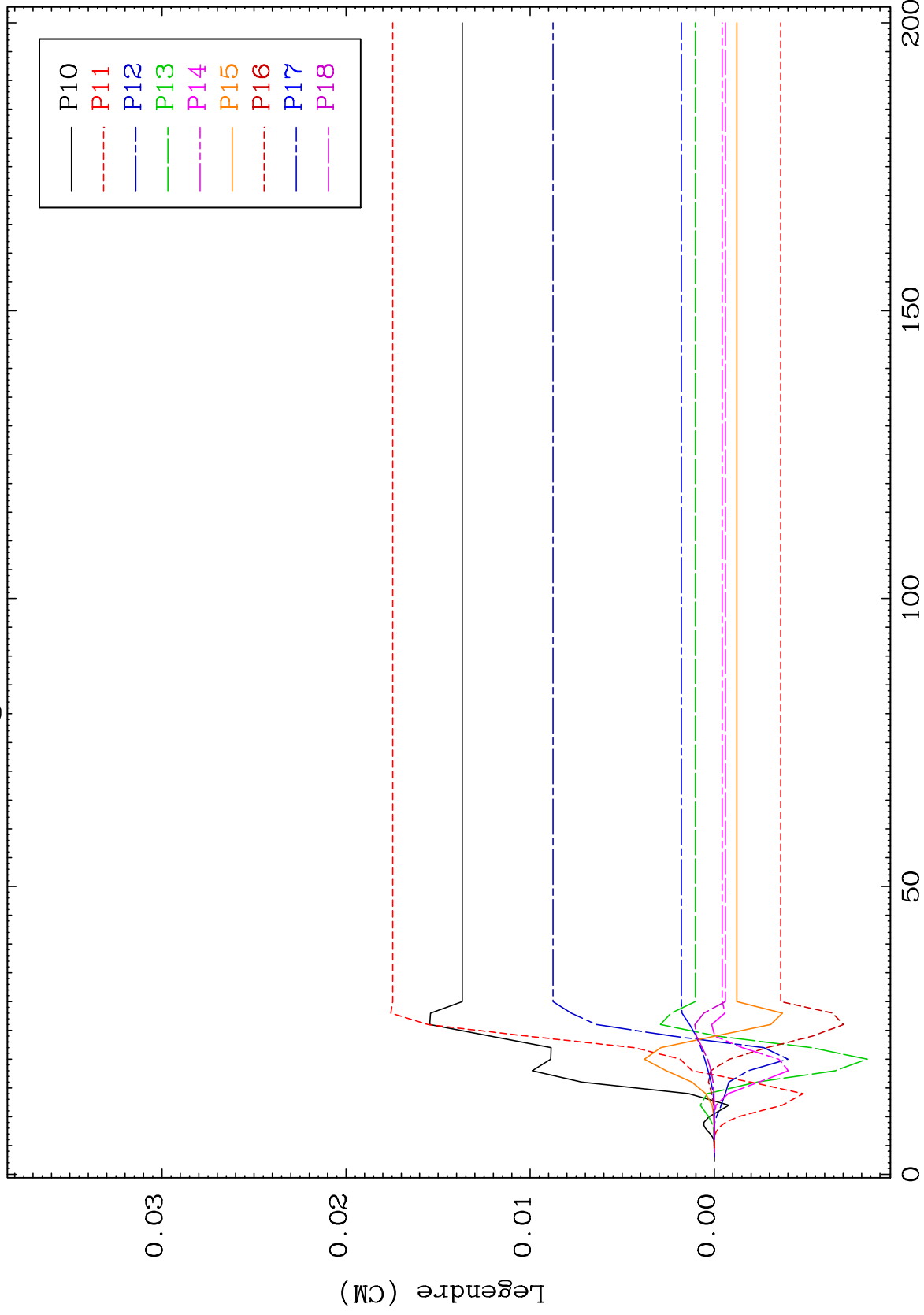
Incident Energy (MeV)

60-Nd-141

MAT 6022

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

60-Nd-141



77

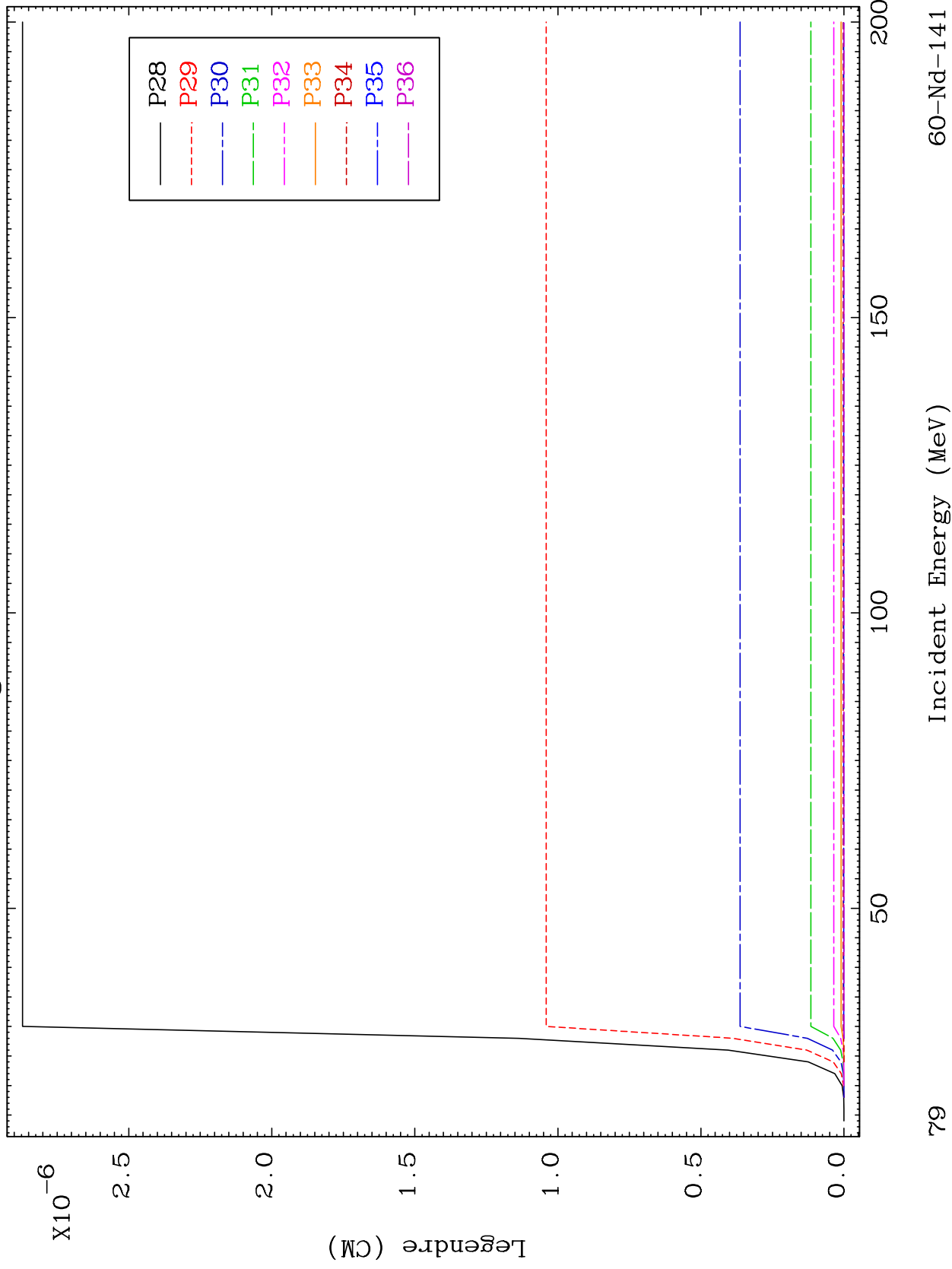
Incident Energy (MeV)

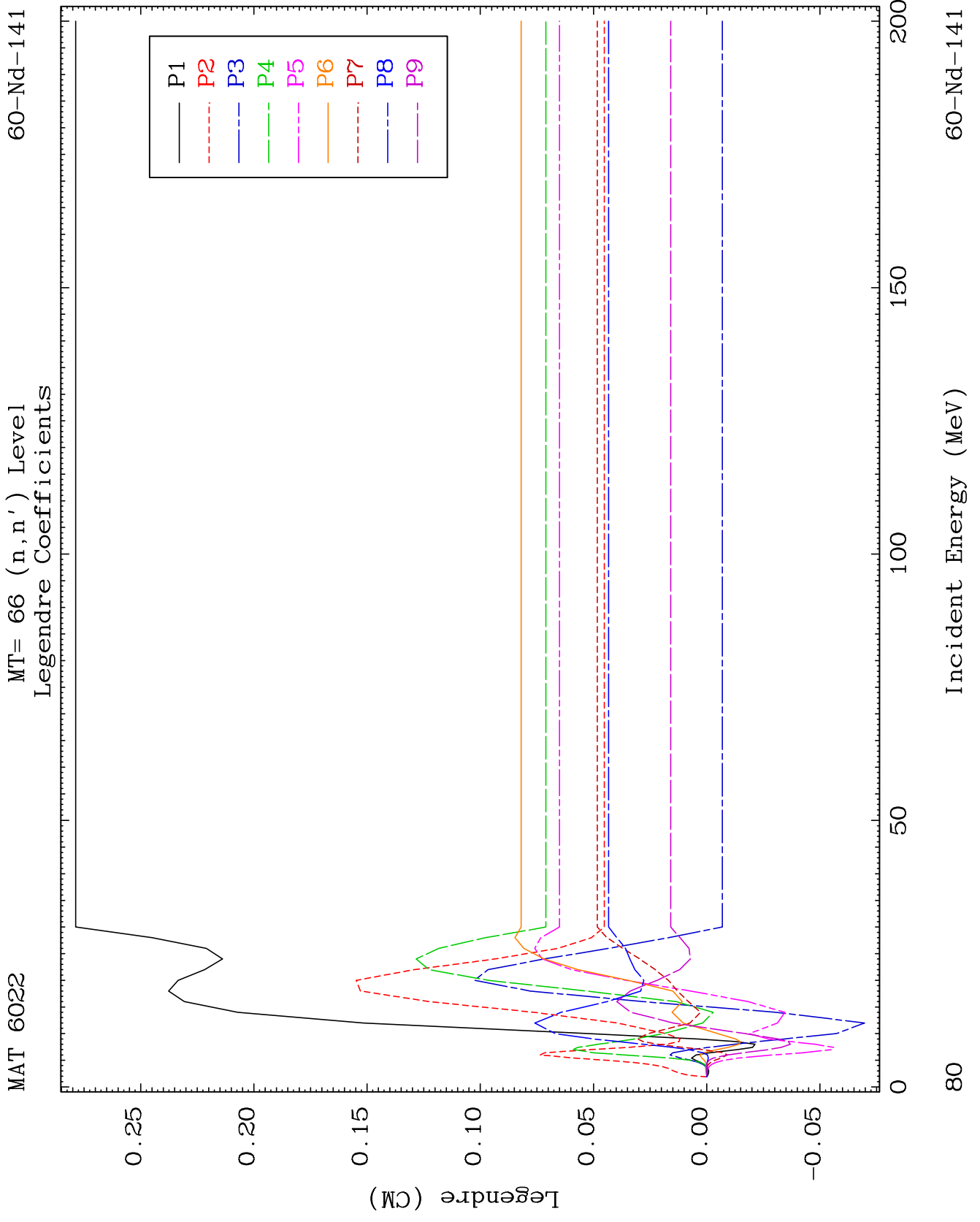
60-Nd-141

MAT 6022

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

60-Nd-141

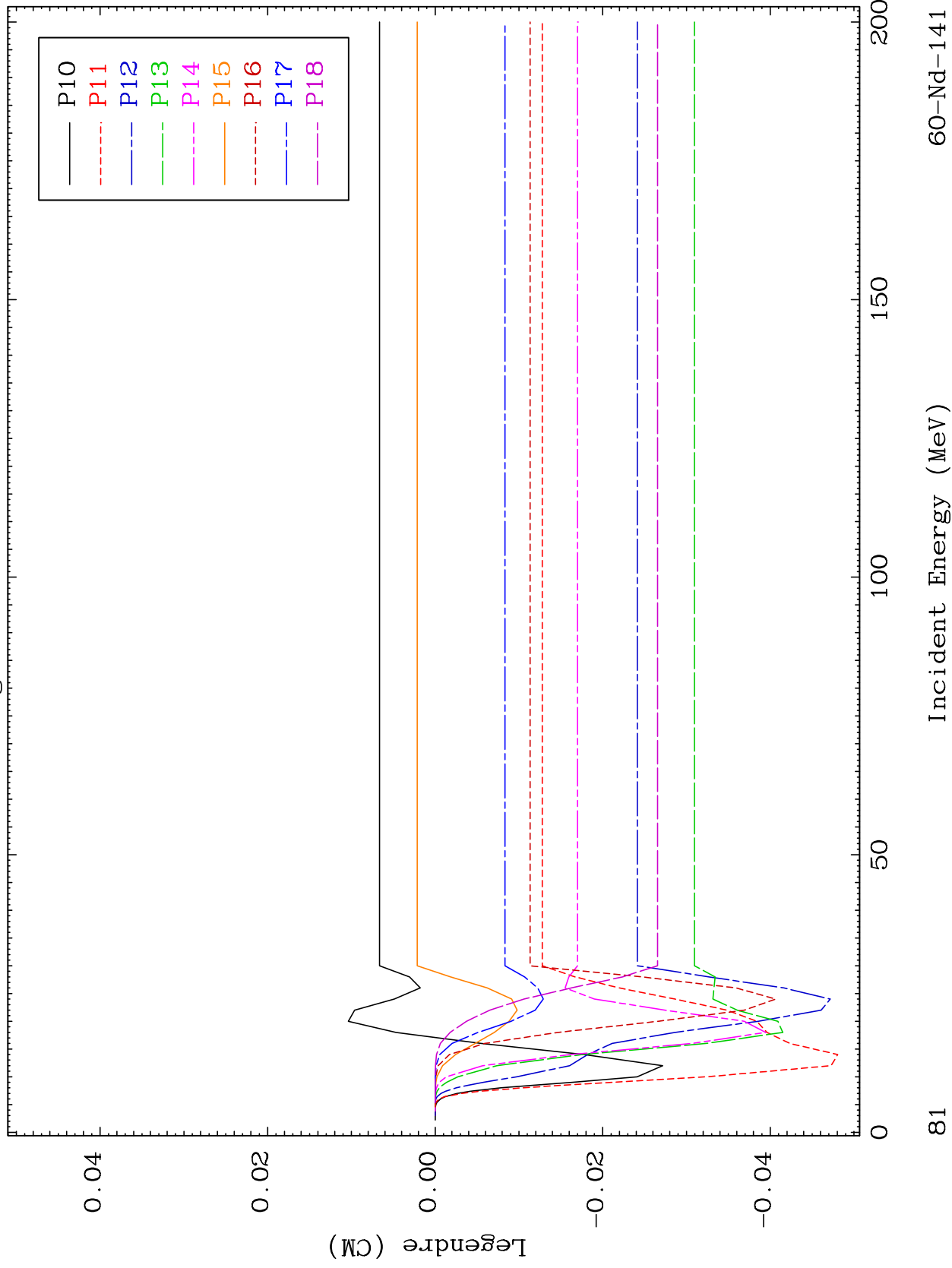




MAT 6022

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

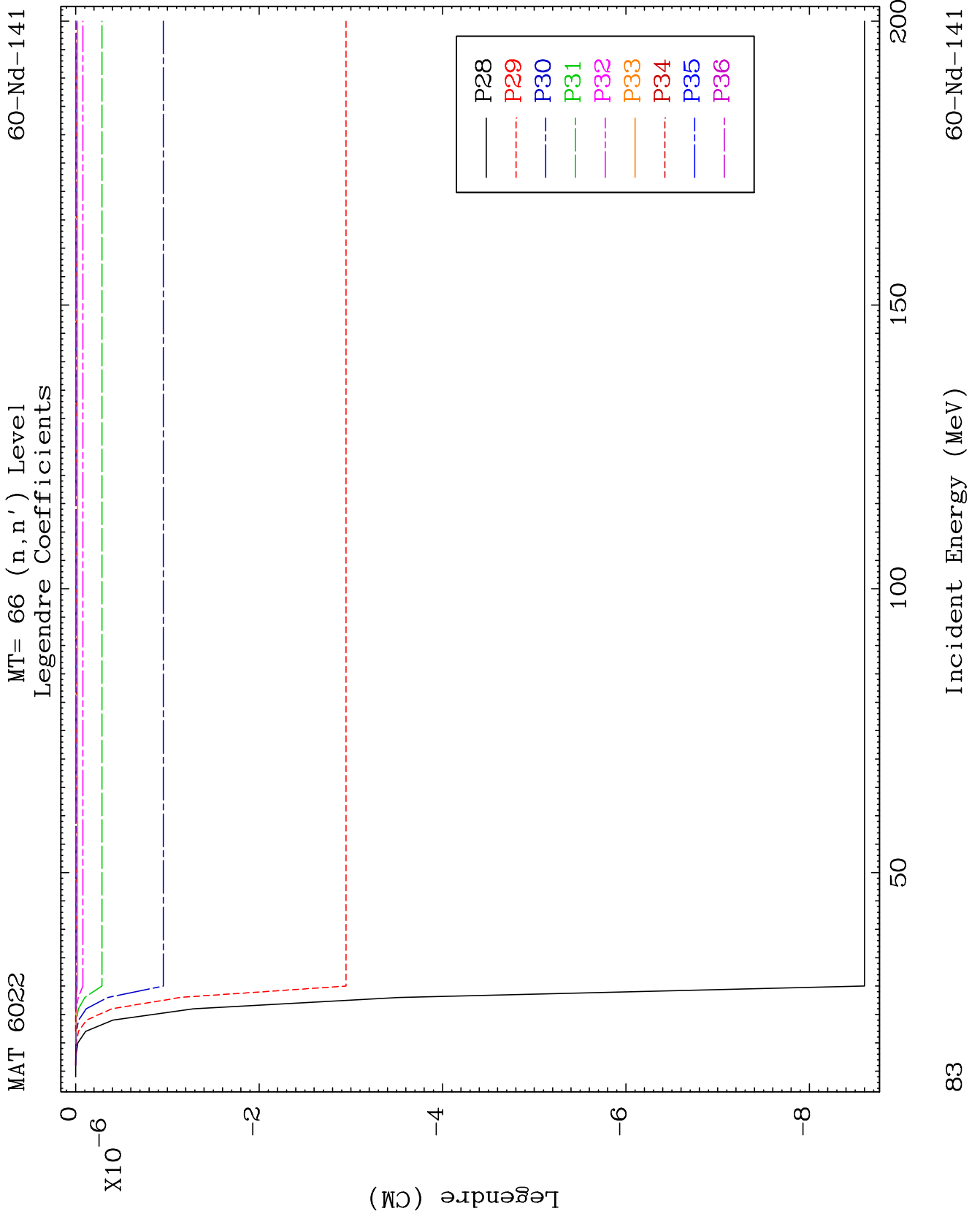
60-Nd-141



81

Incident Energy (MeV)

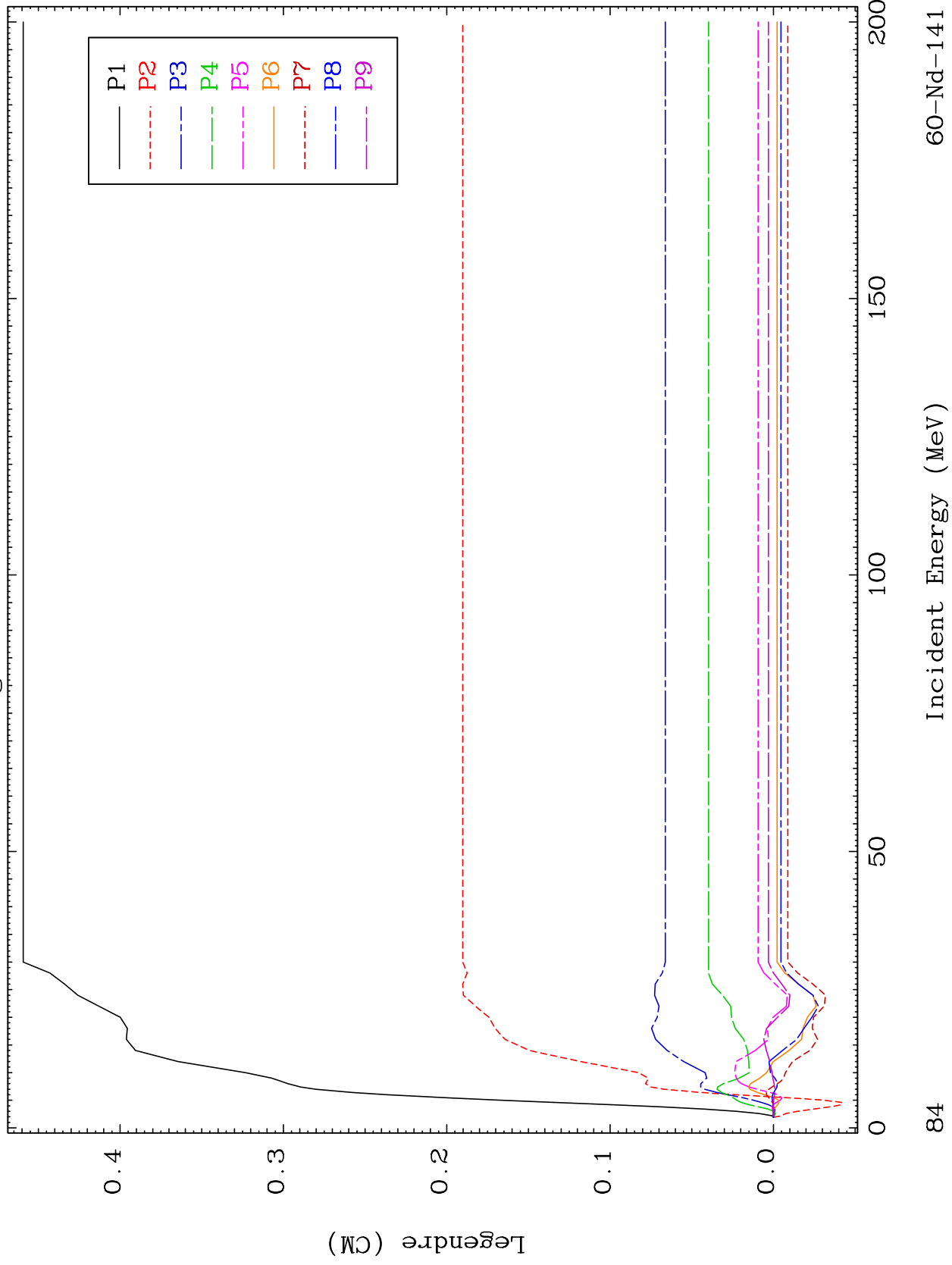
60-Nd-141

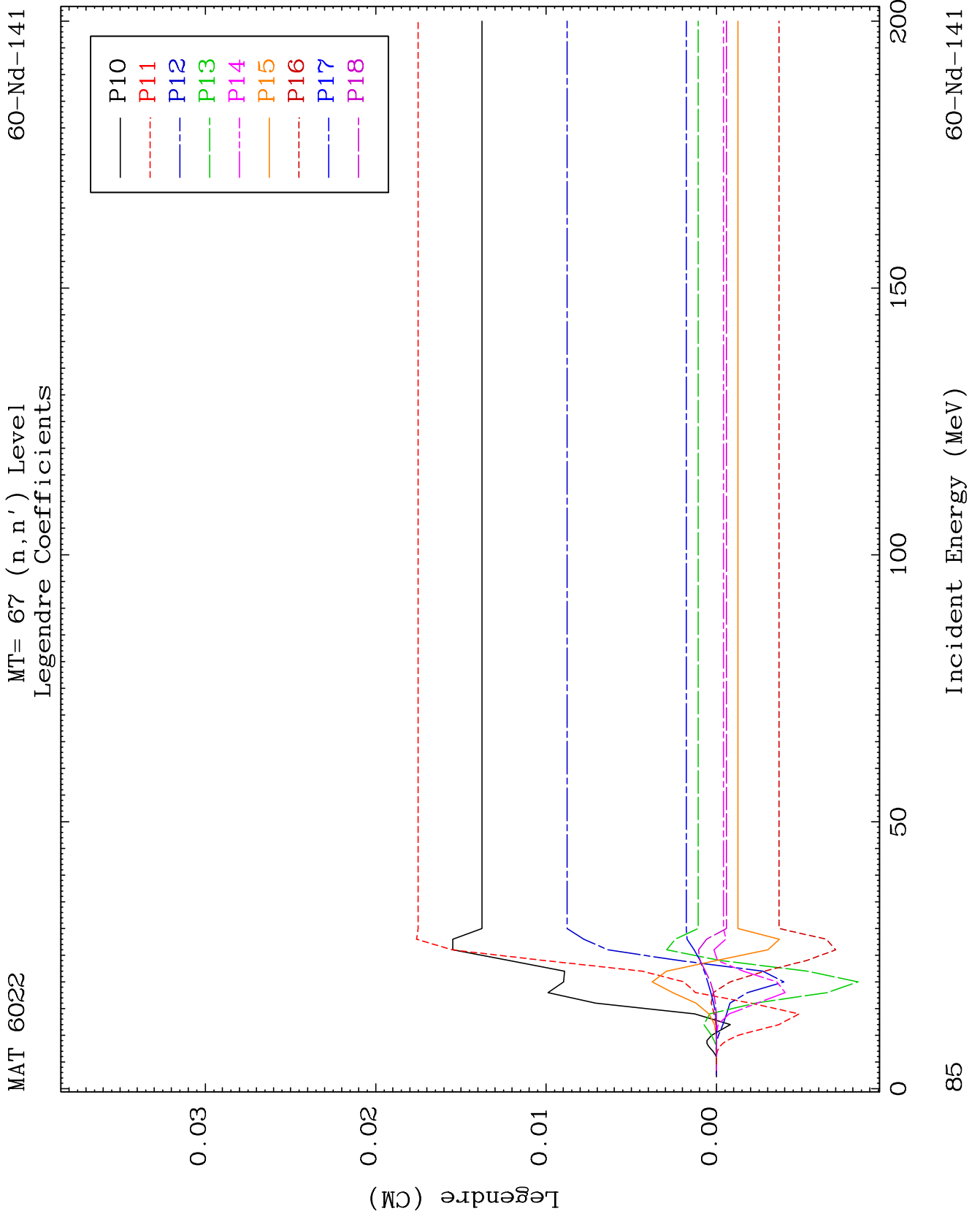


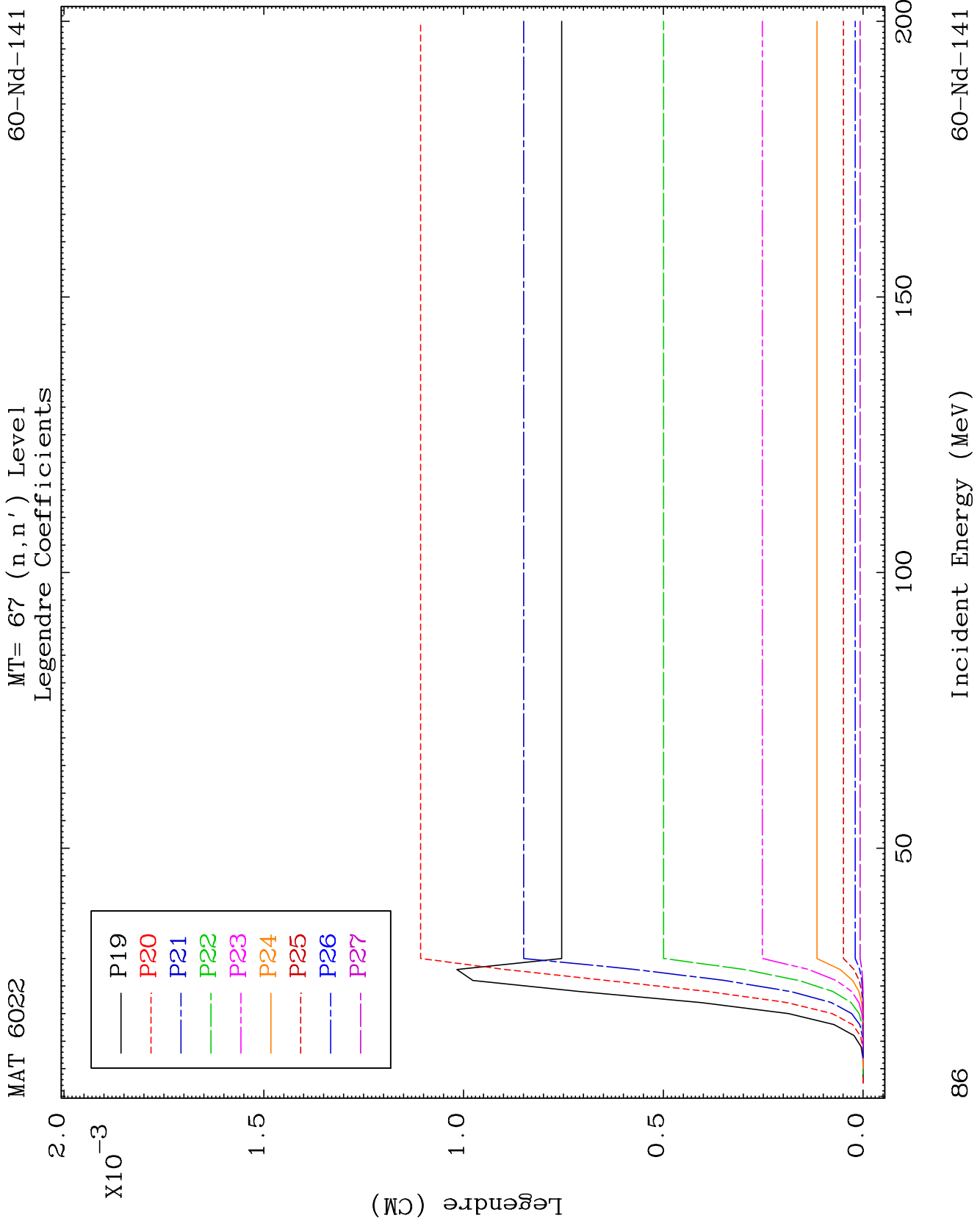
MAT 6022

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

60-Nd-141



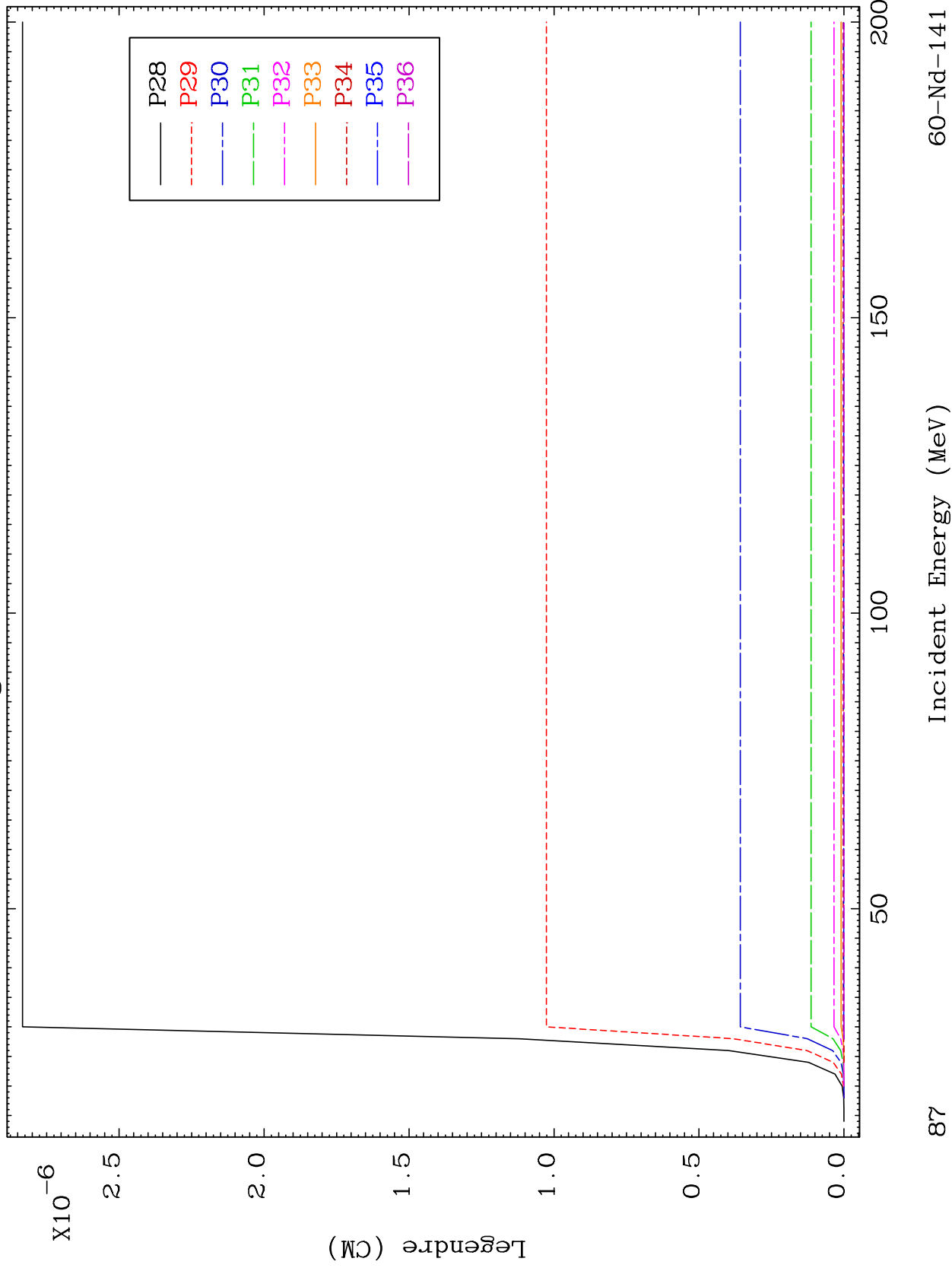


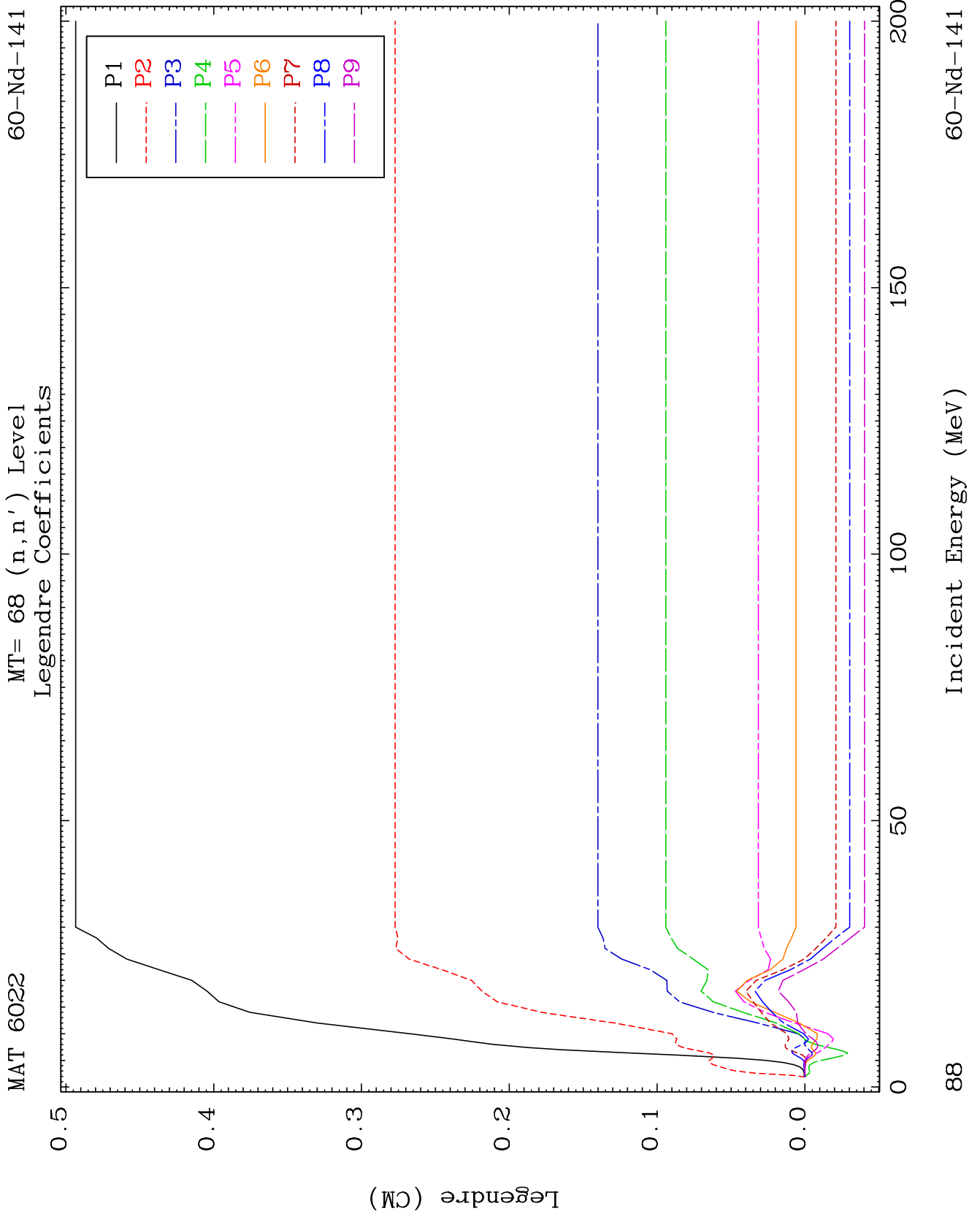


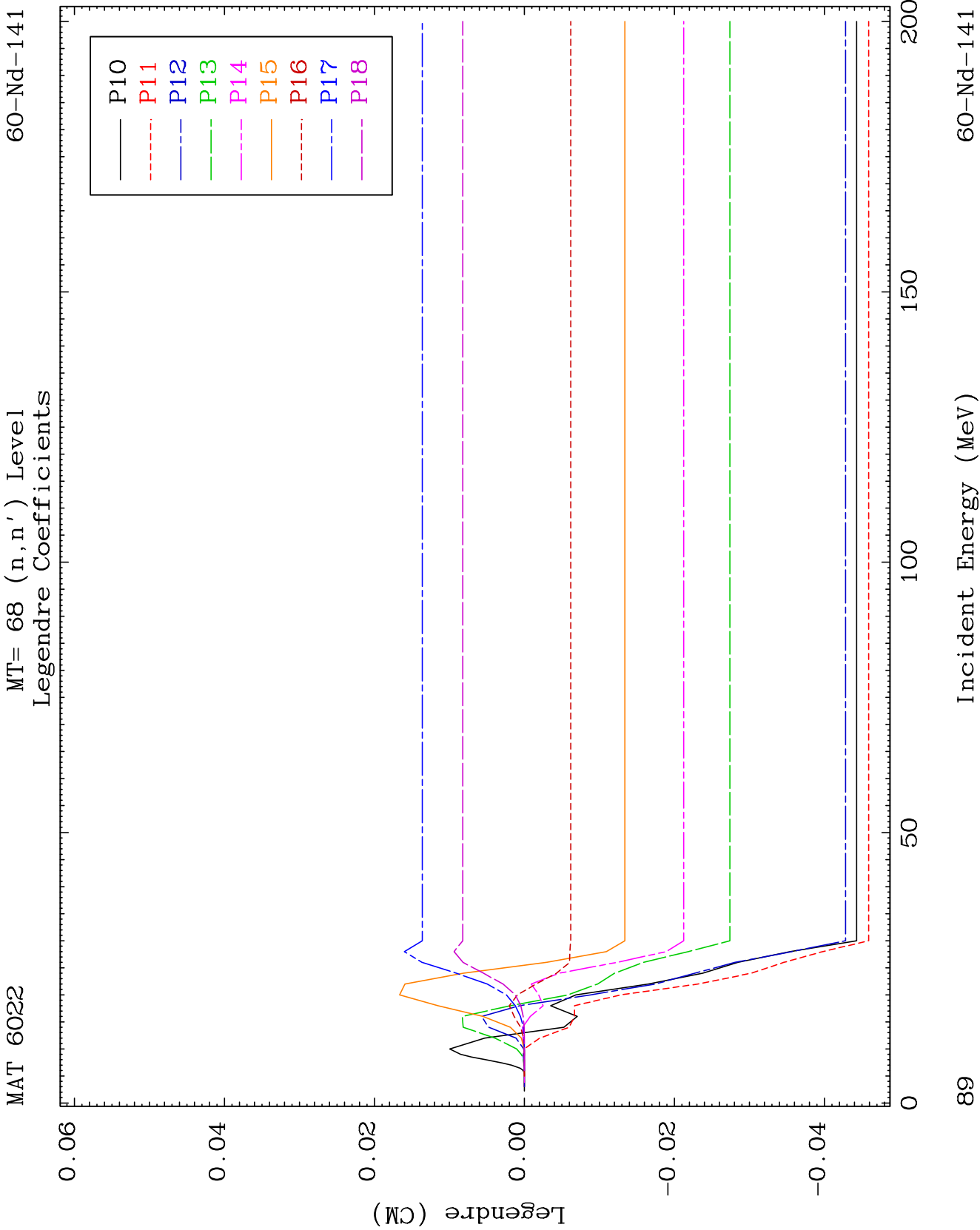
MAT 6022

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

60-Nd-141



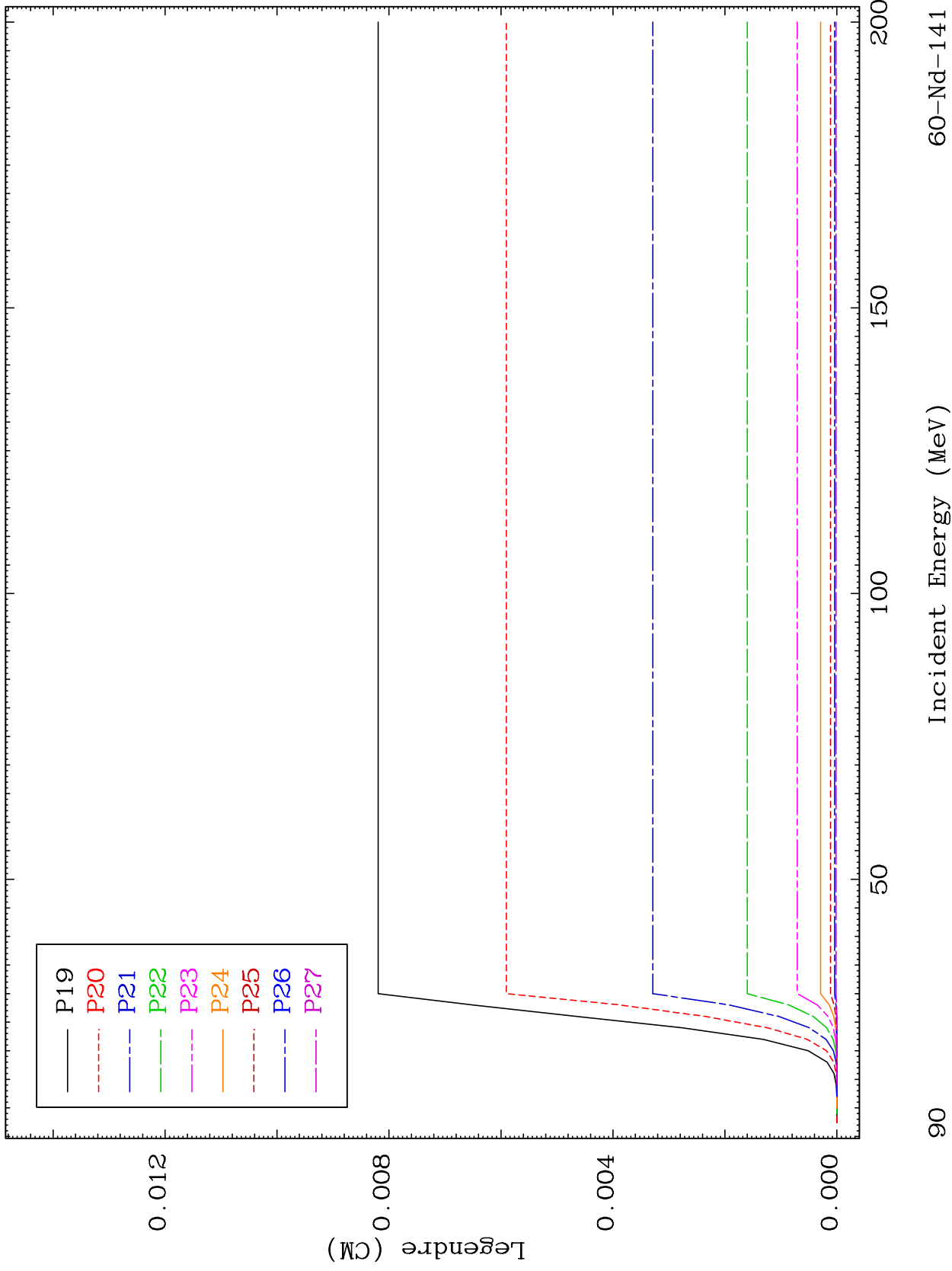




MAT 6022

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

60-Nd-141



90

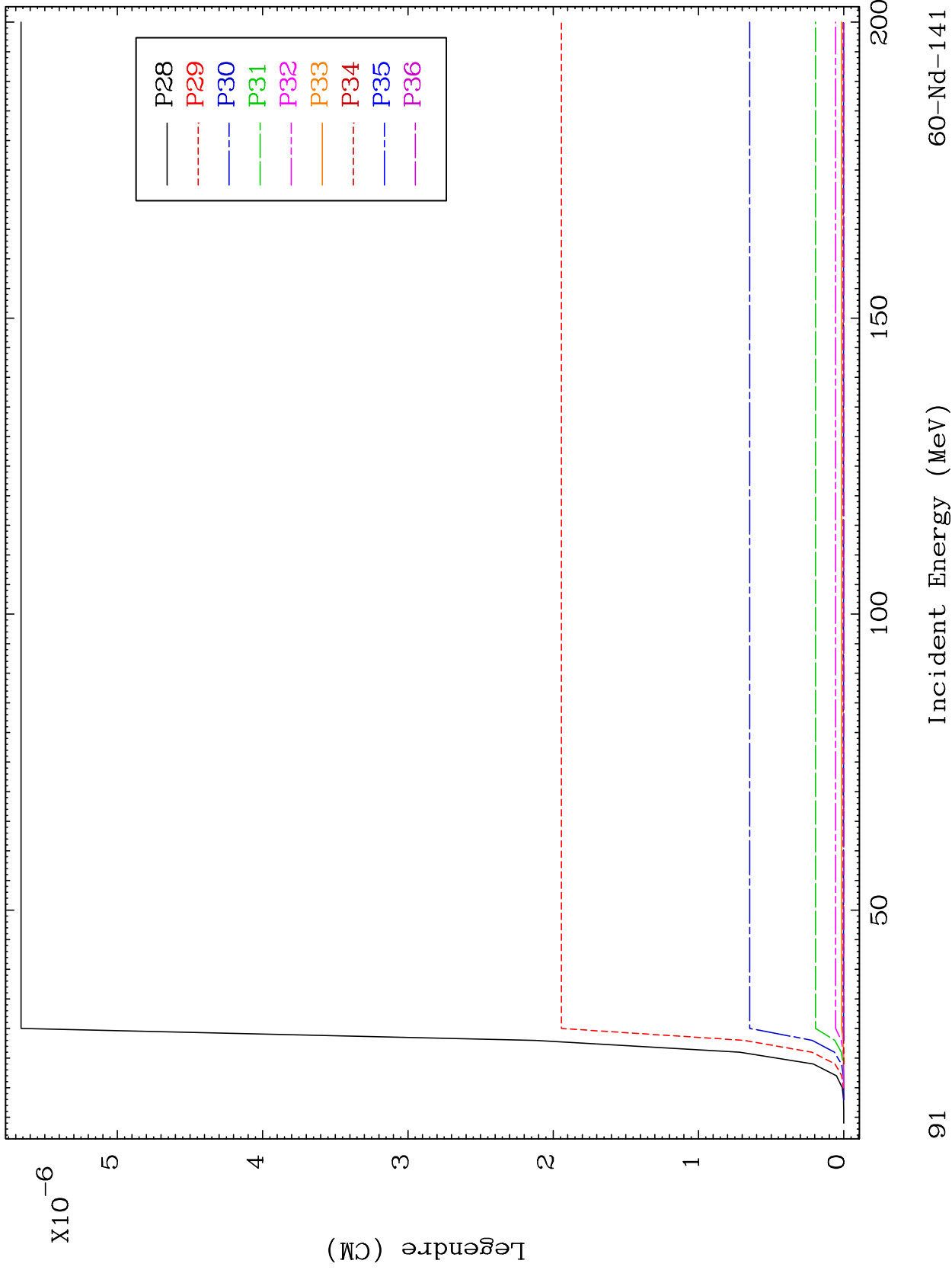
Incident Energy (MeV)

60-Nd-141

MAT 6022

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

60-Nd-141

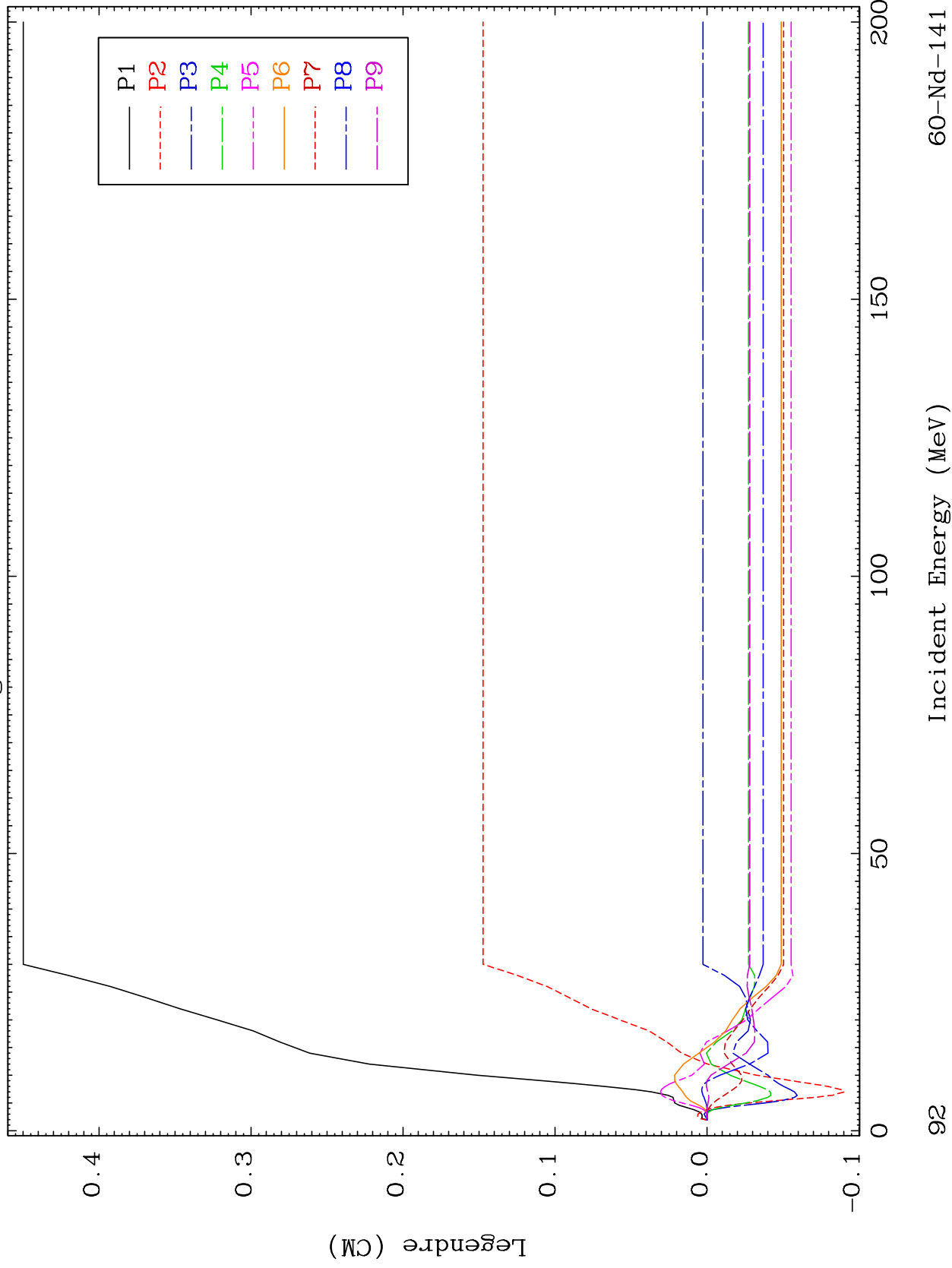


91

MAT 6022

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

60-Nd-141



60-Nd-141

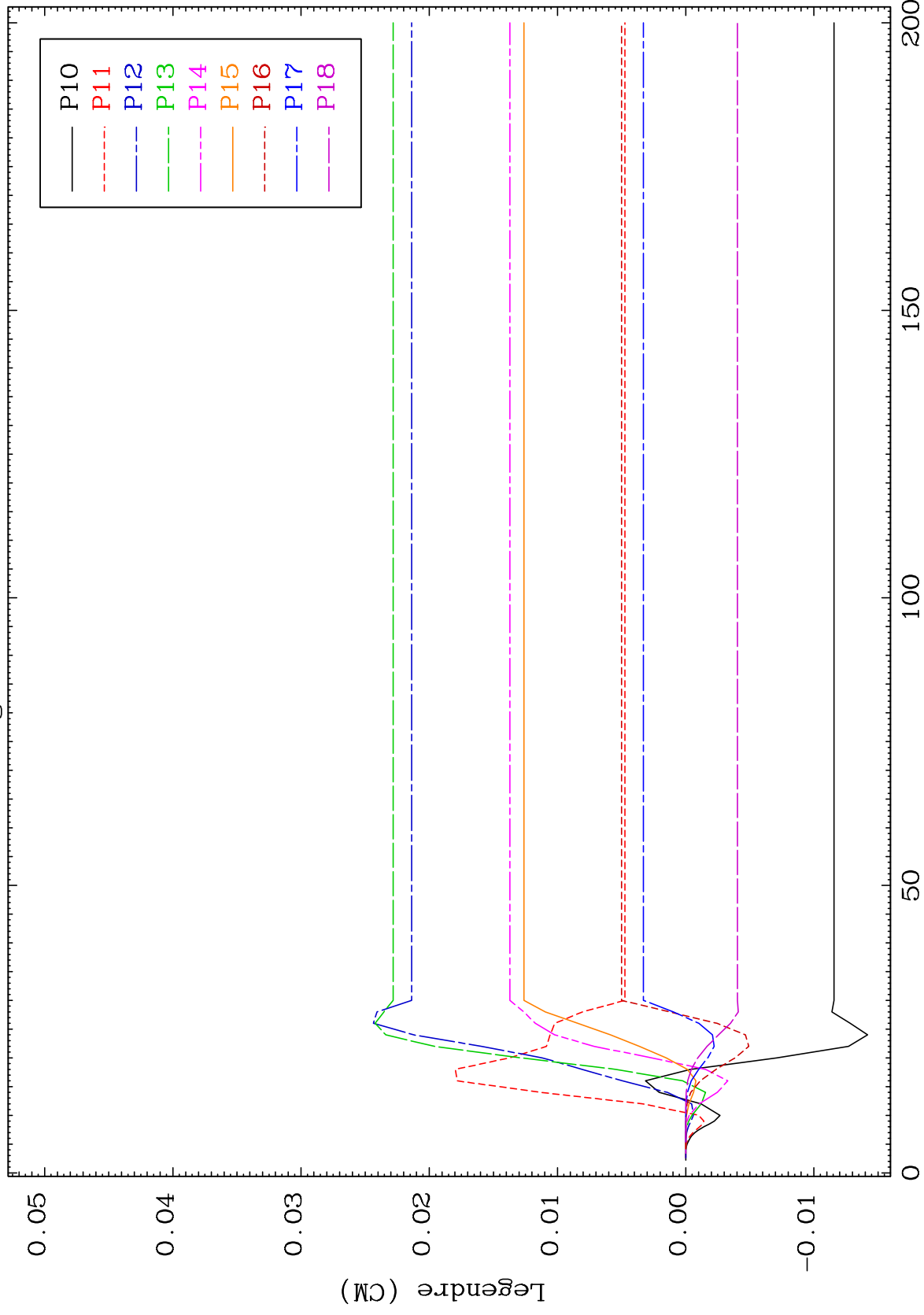
Incident Energy (MeV)

92

MAT 6022

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

60-Nd-141



93

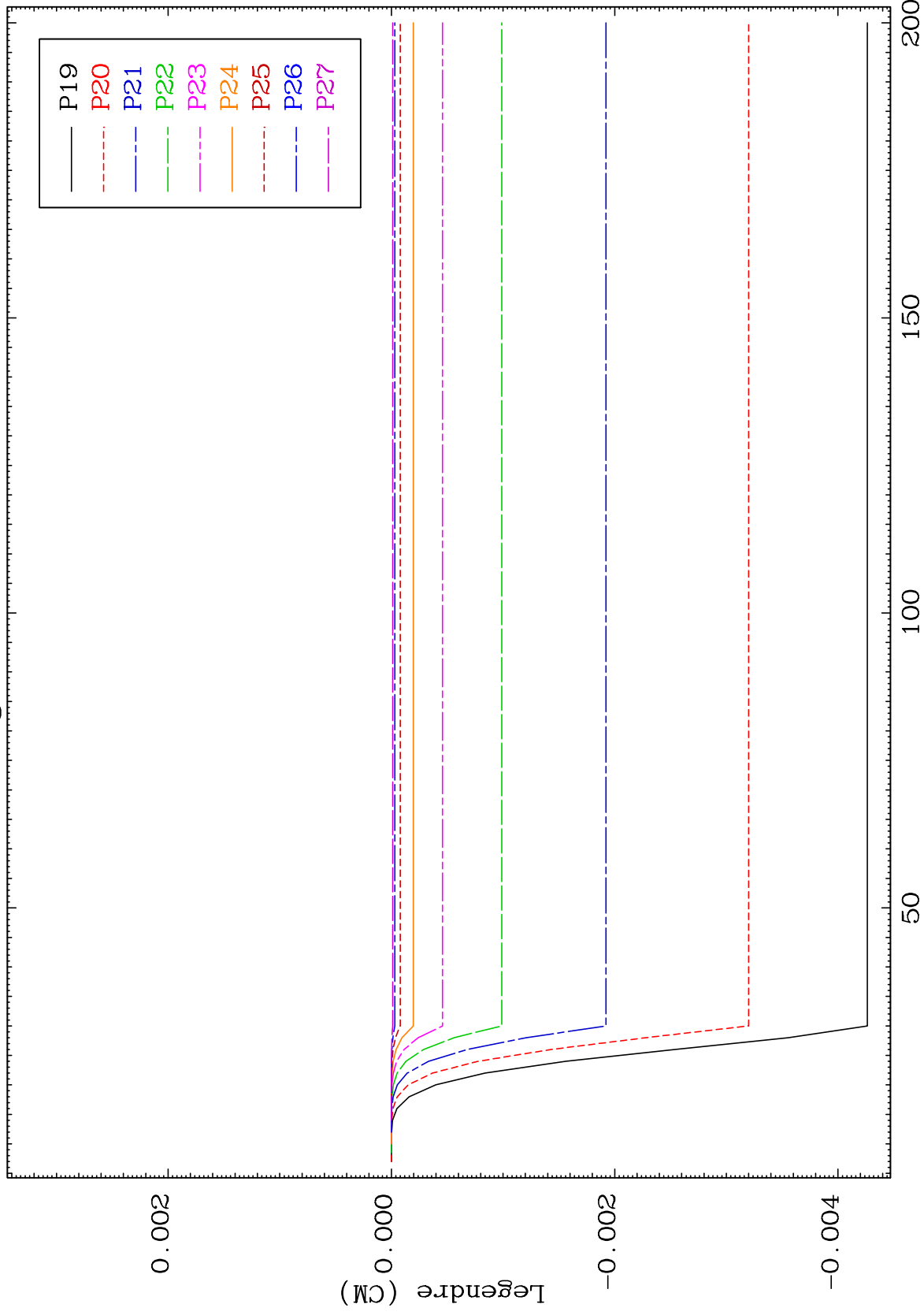
Incident Energy (MeV)

60-Nd-141

MAT 6022

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

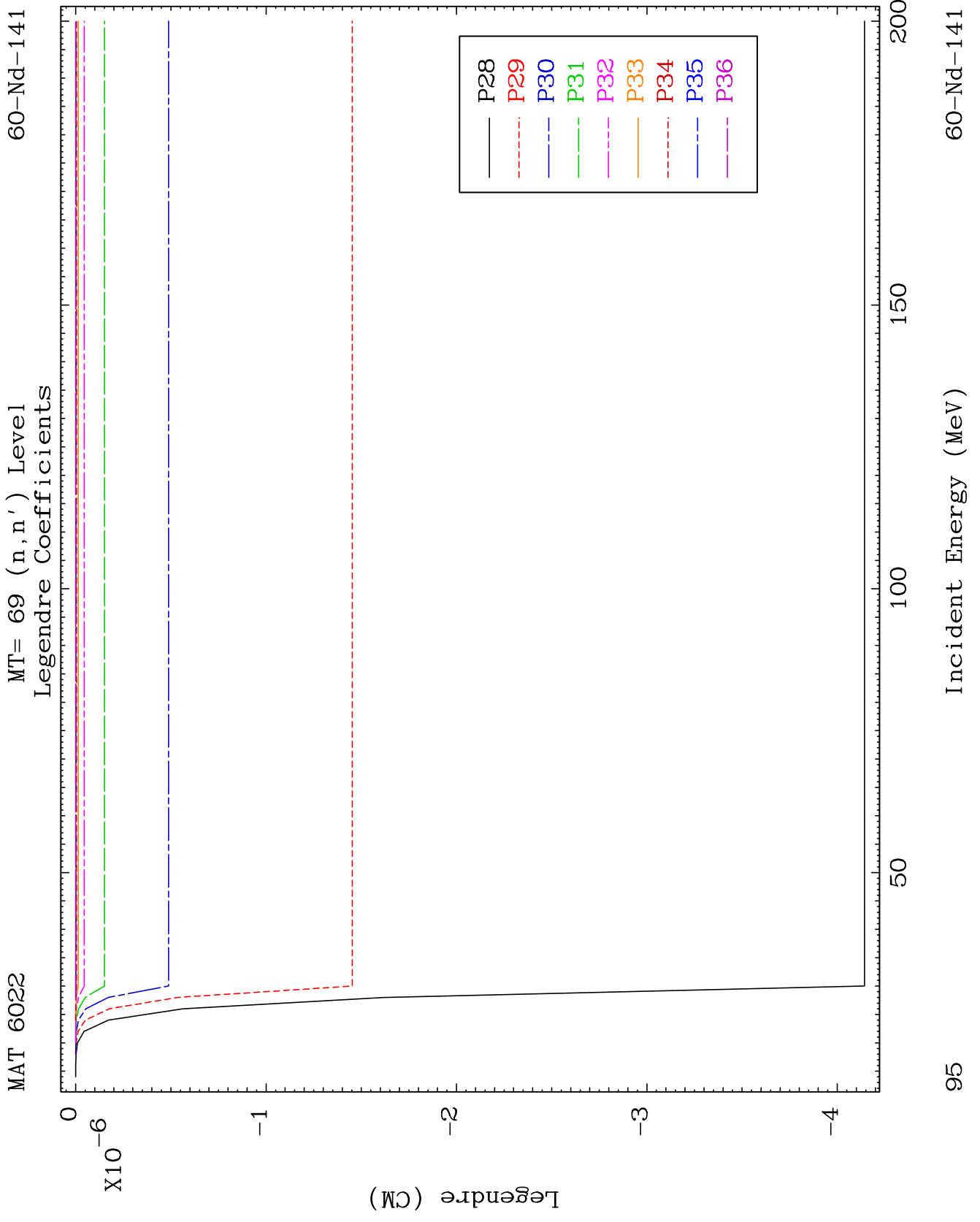
60-Nd-141



94

Incident Energy (MeV)

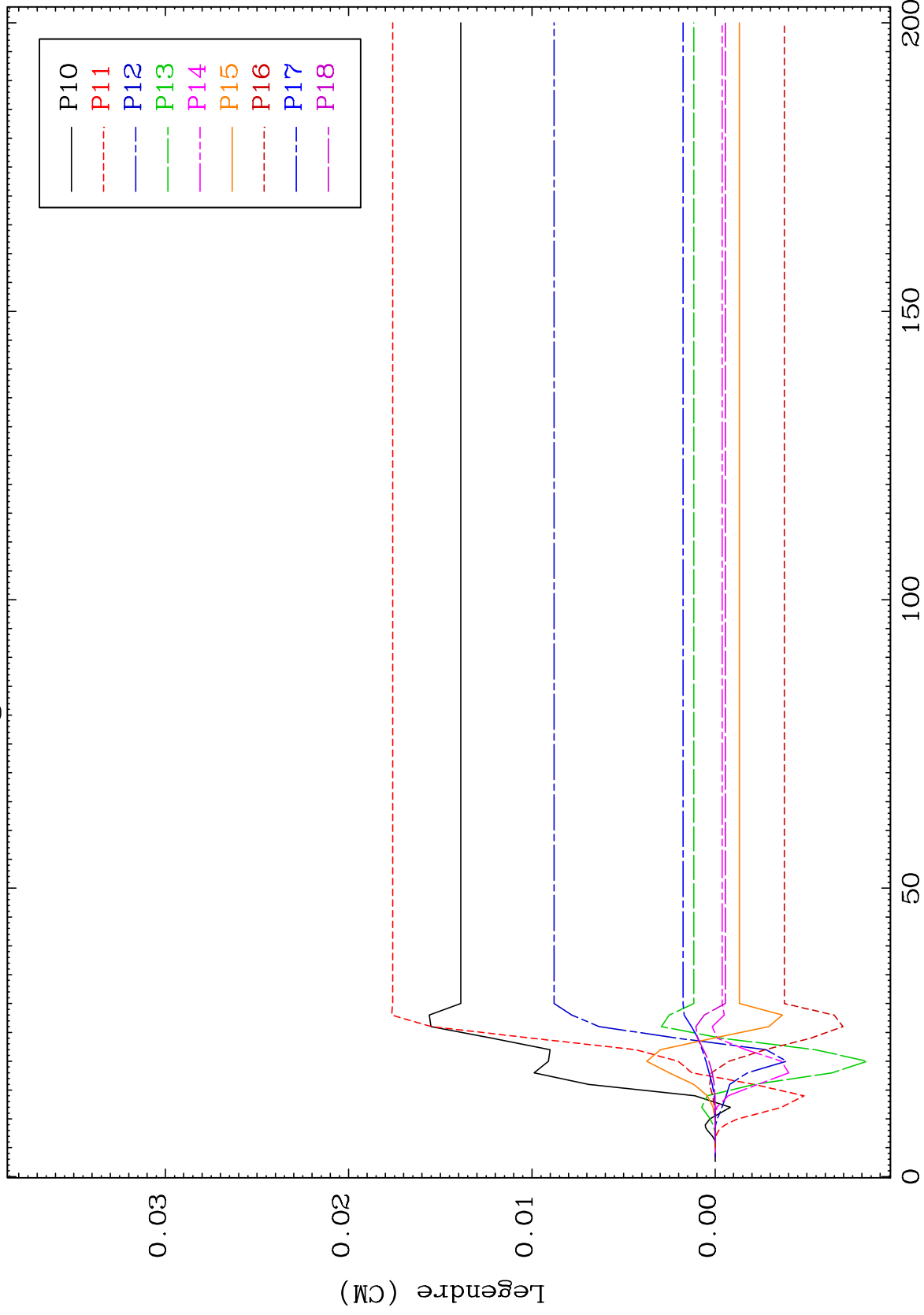
60-Nd-141



MAT 6022

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

60-Nd-141



97

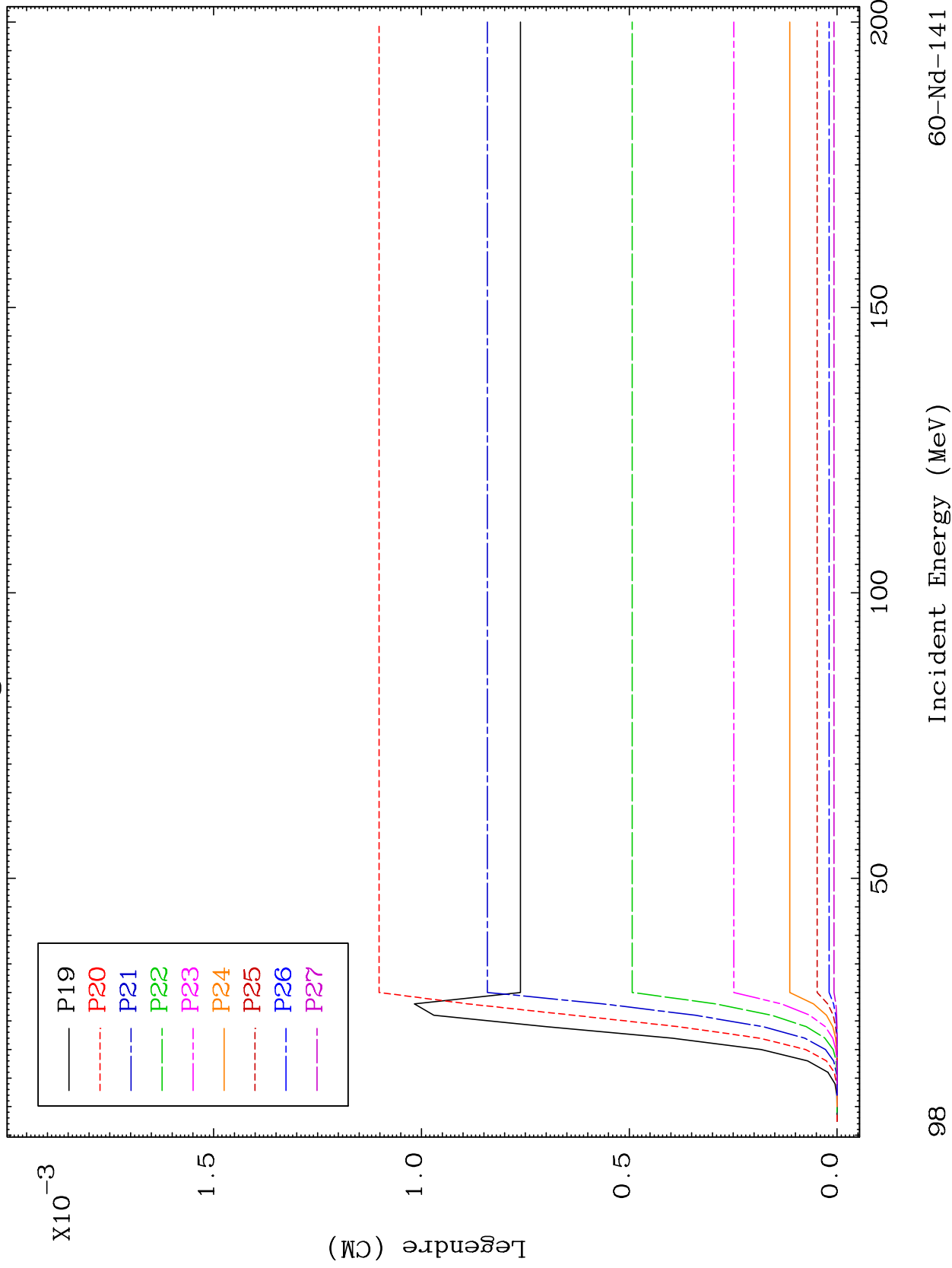
Incident Energy (MeV)

60-Nd-141

MAT 6022

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

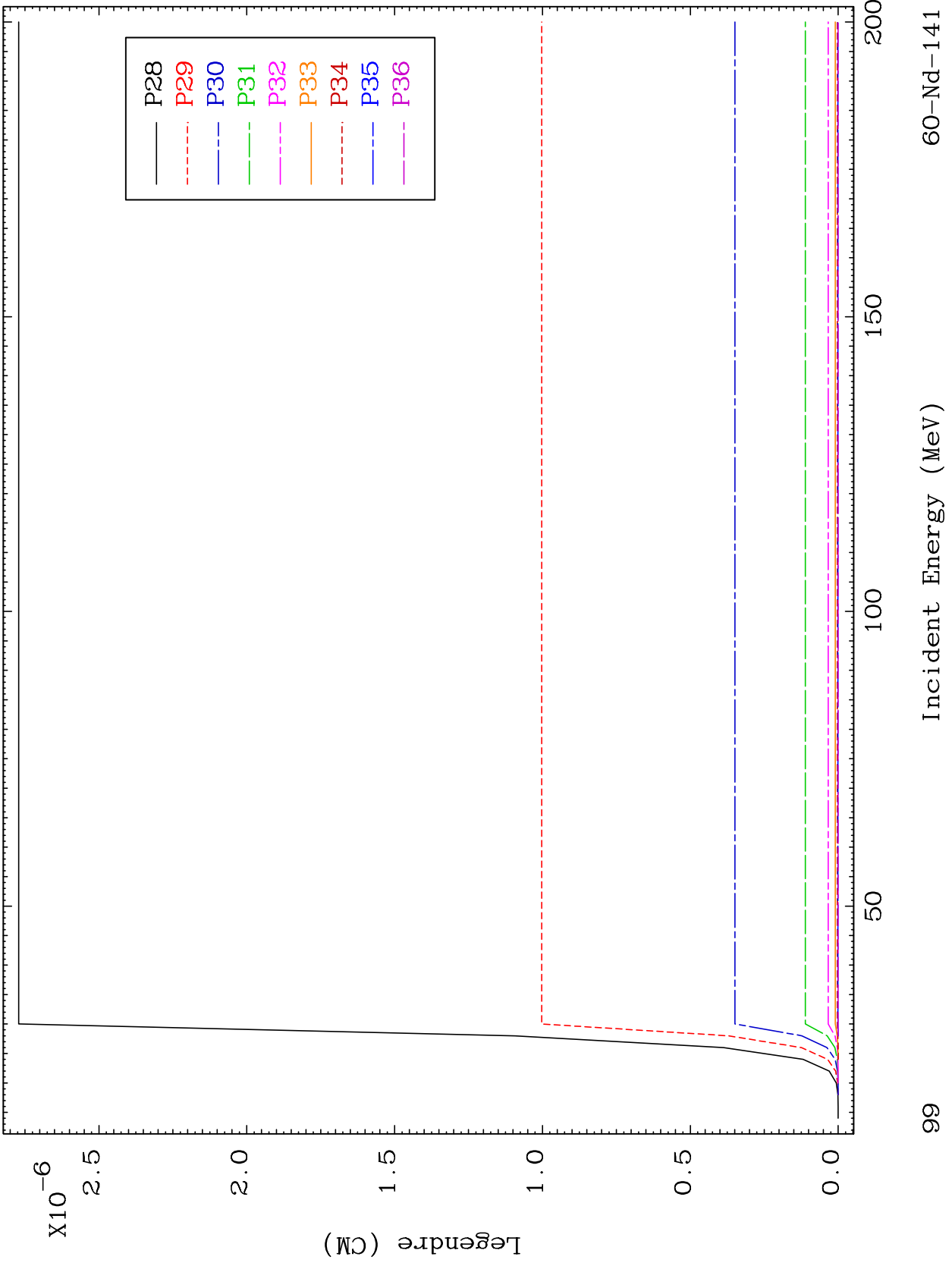
60-Nd-141



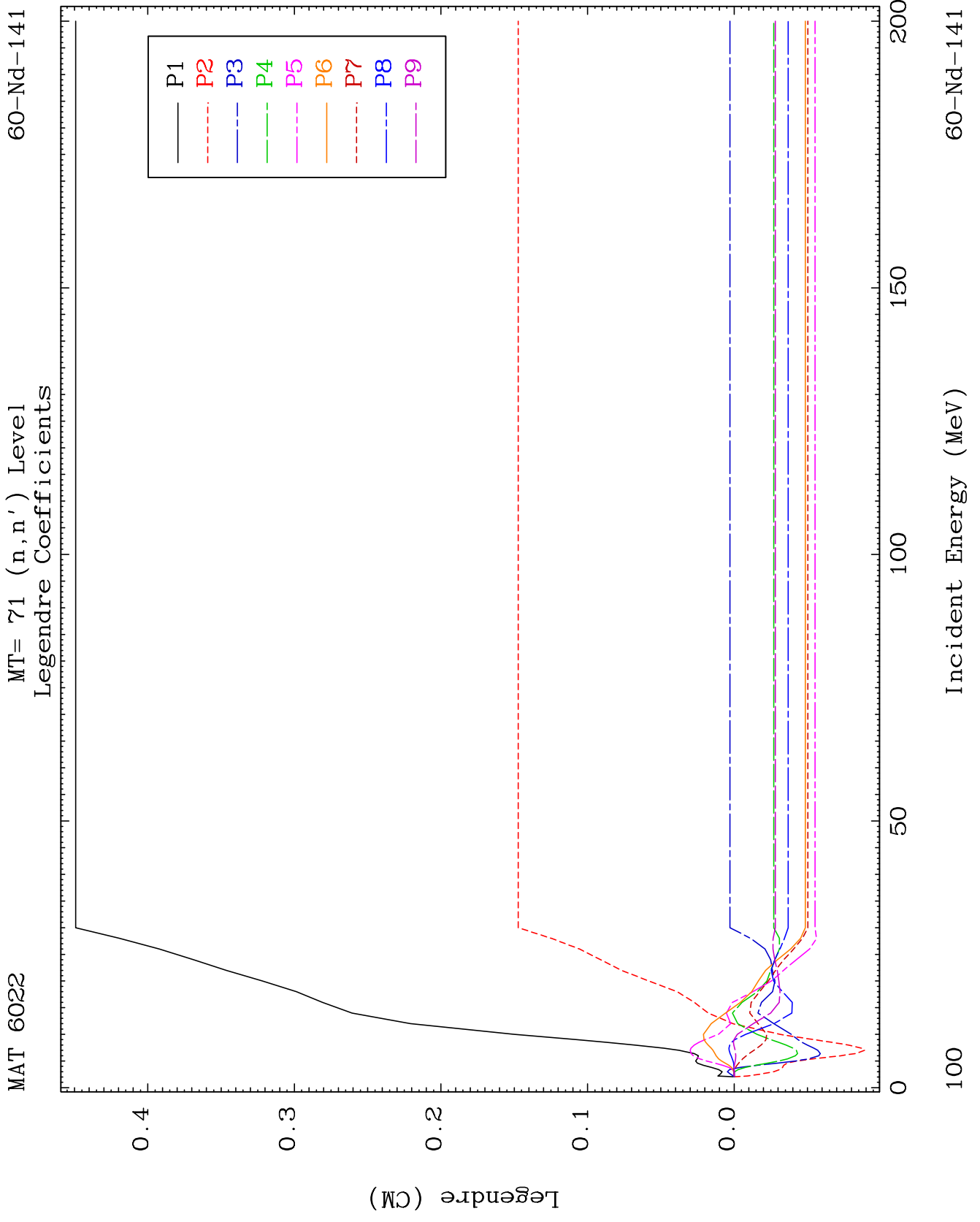
MAT 6022

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

60-Nd-141



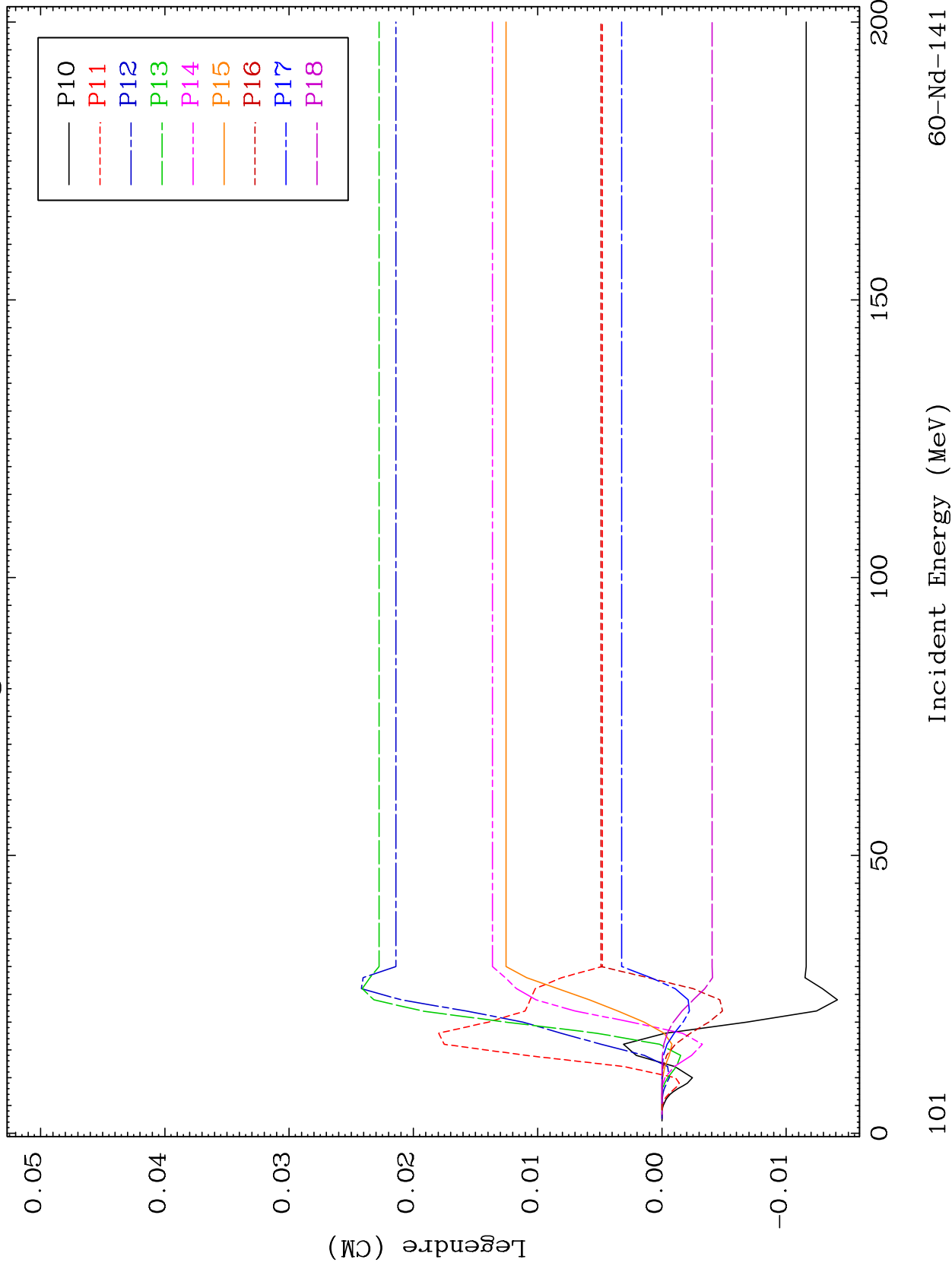
99



MAT 6022

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

60-Nd-141



60-Nd-141

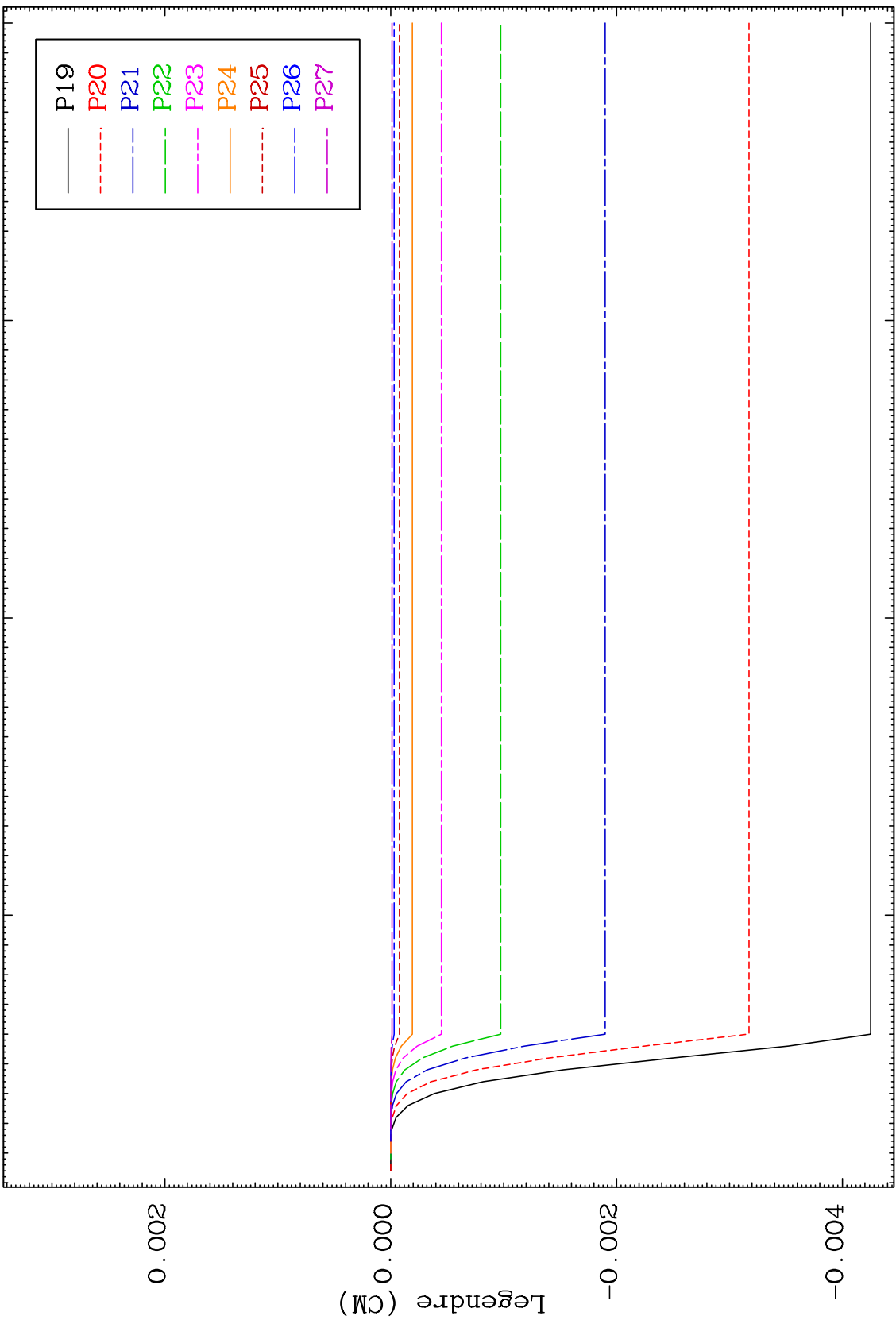
Incident Energy (MeV)

101

MAT 6022

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

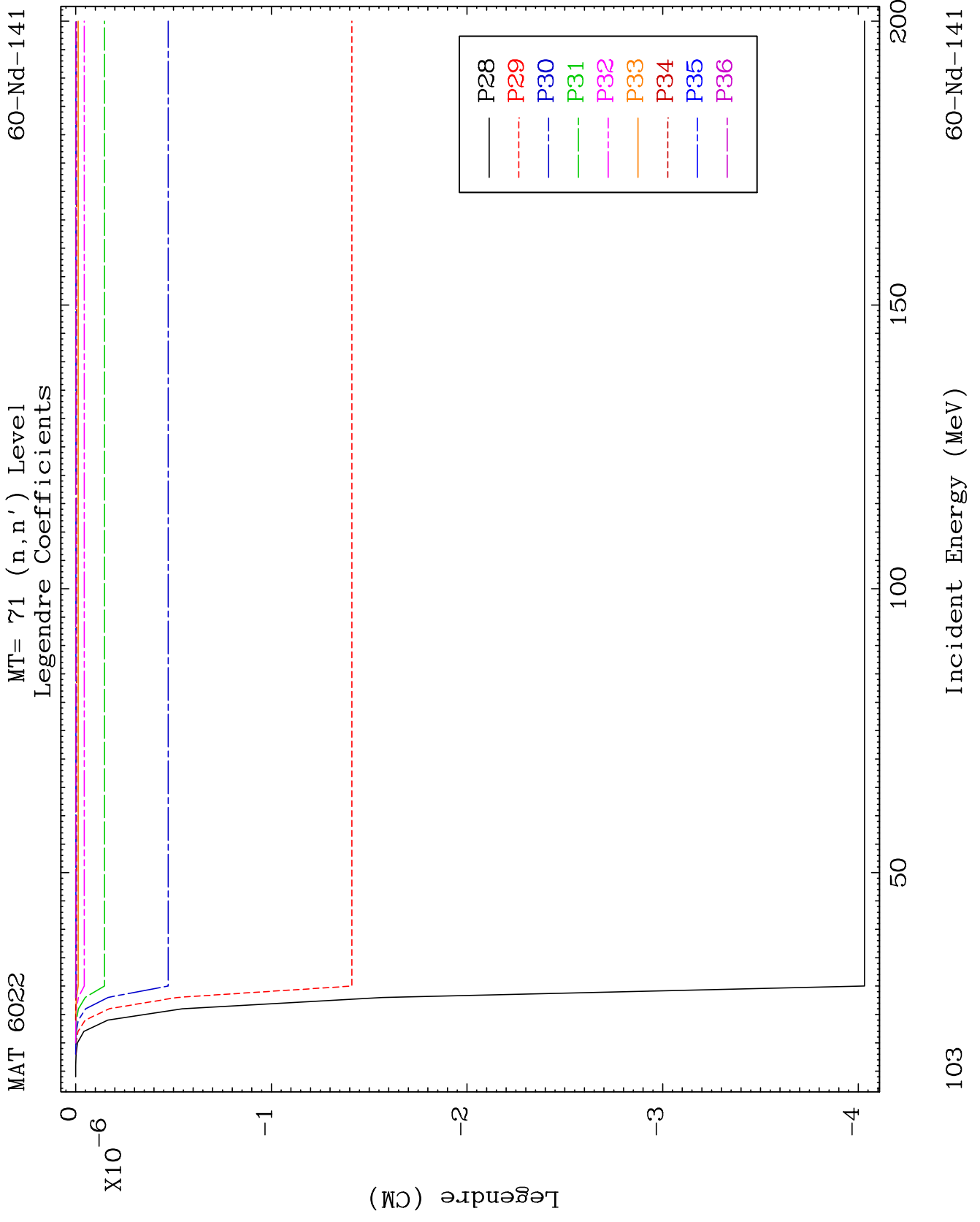
60-Nd-141



102

Incident Energy (MeV)

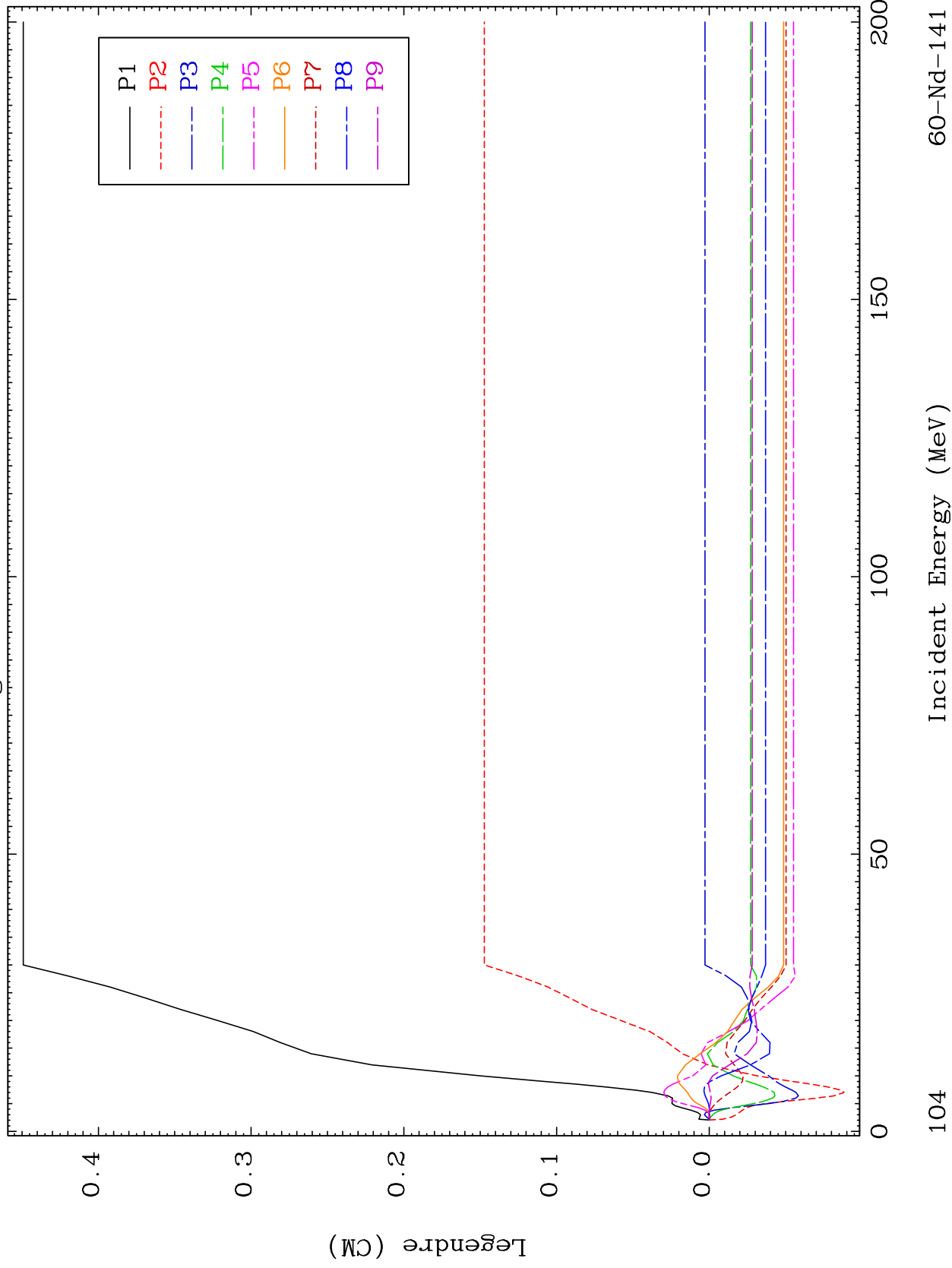
60-Nd-141



MAT 6022

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

60-Nd-141



60-Nd-141

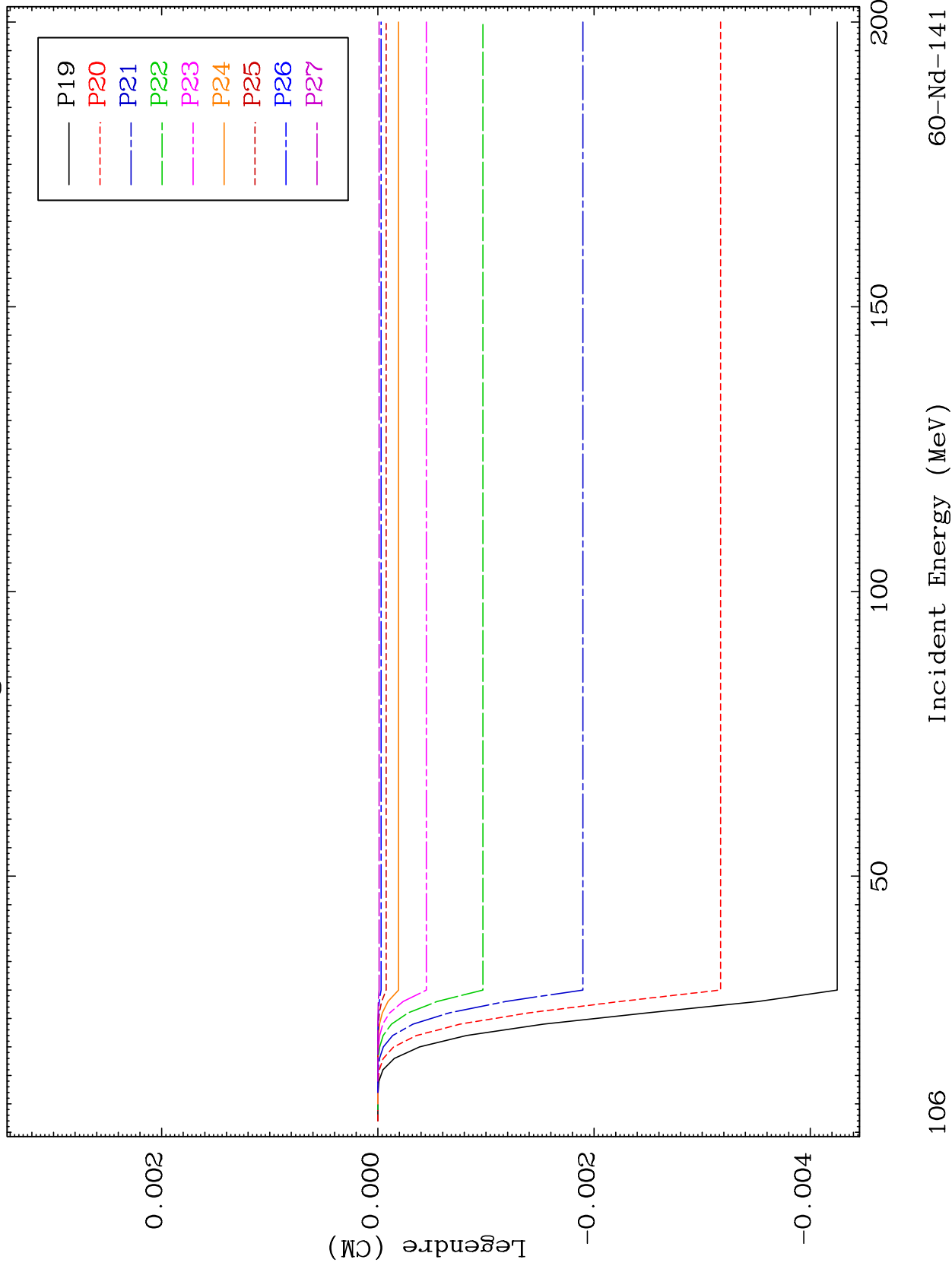
Incident Energy (MeV)

104

MAT 6022

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

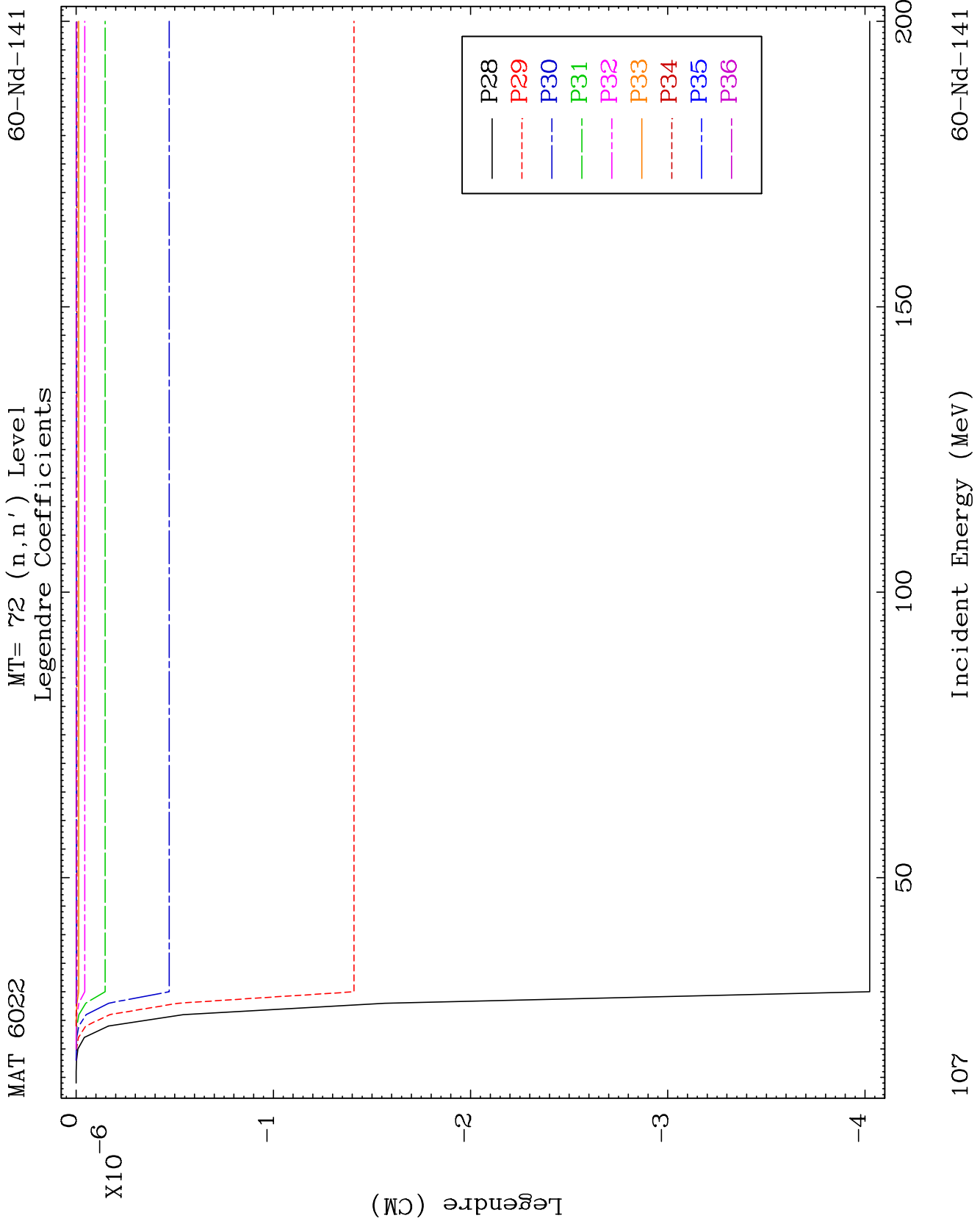
60-Nd-141



106

Incident Energy (MeV)

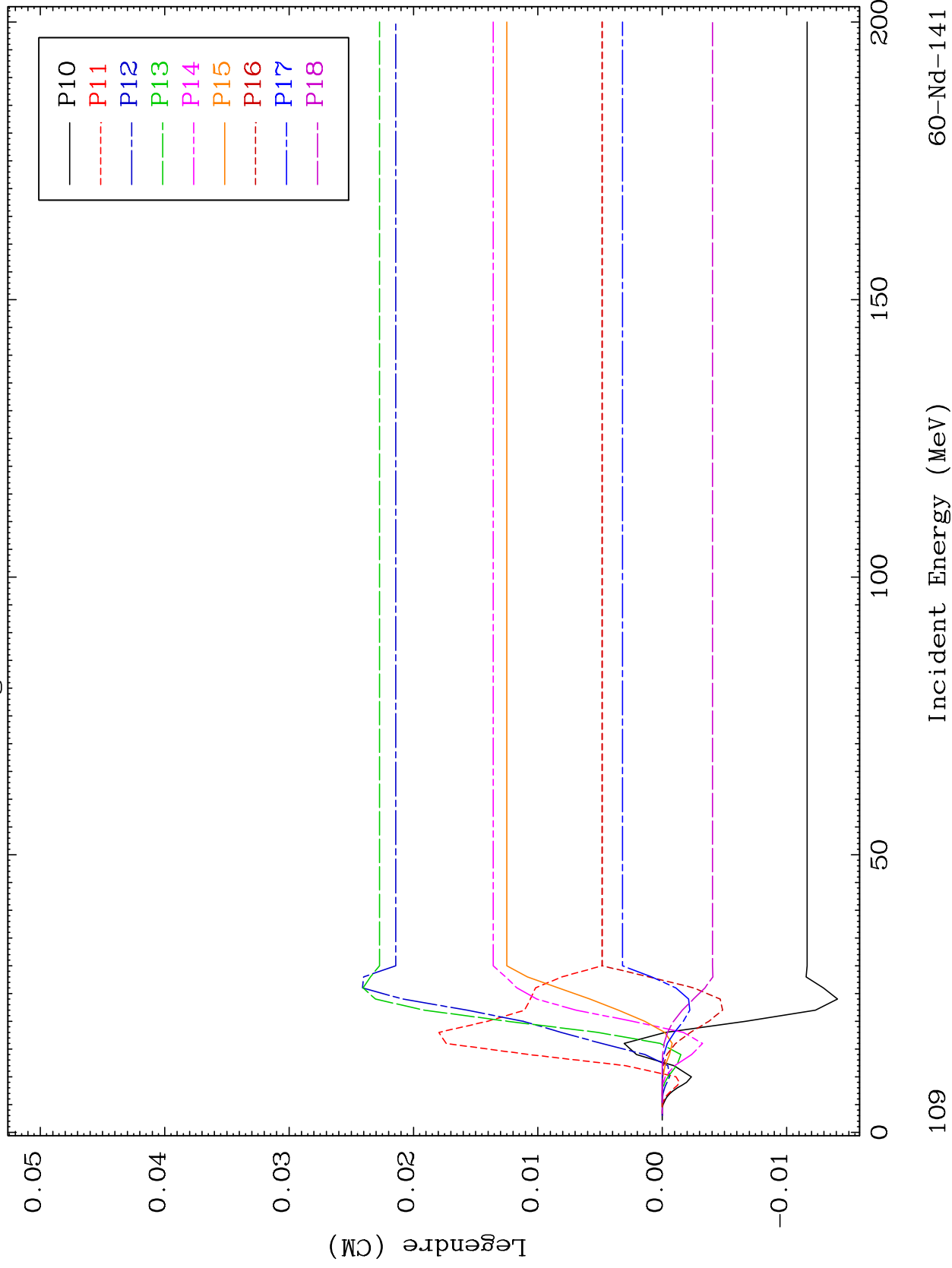
60-Nd-141



MAT 6022

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

60-Nd-141

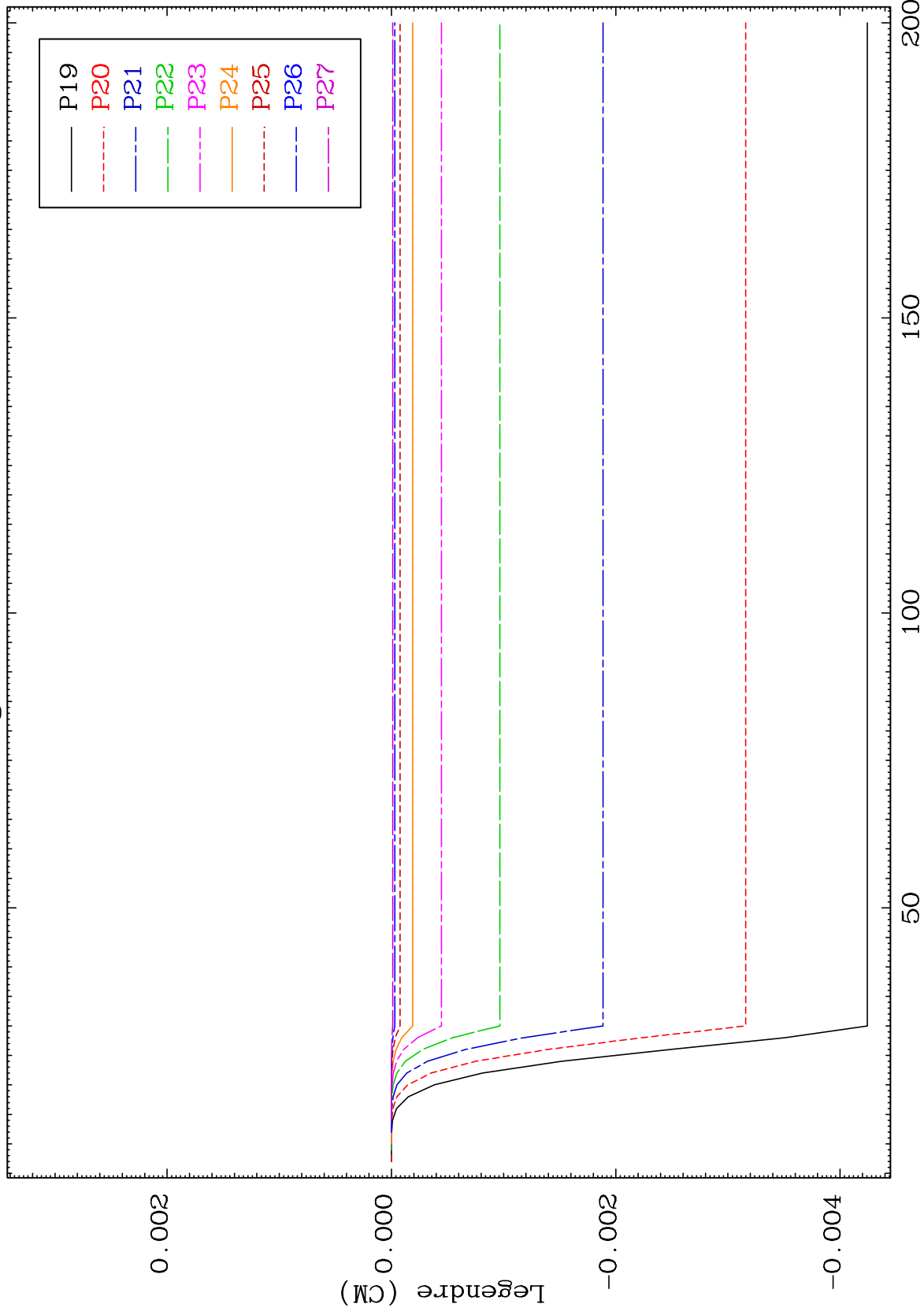


109

MAT 6022

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

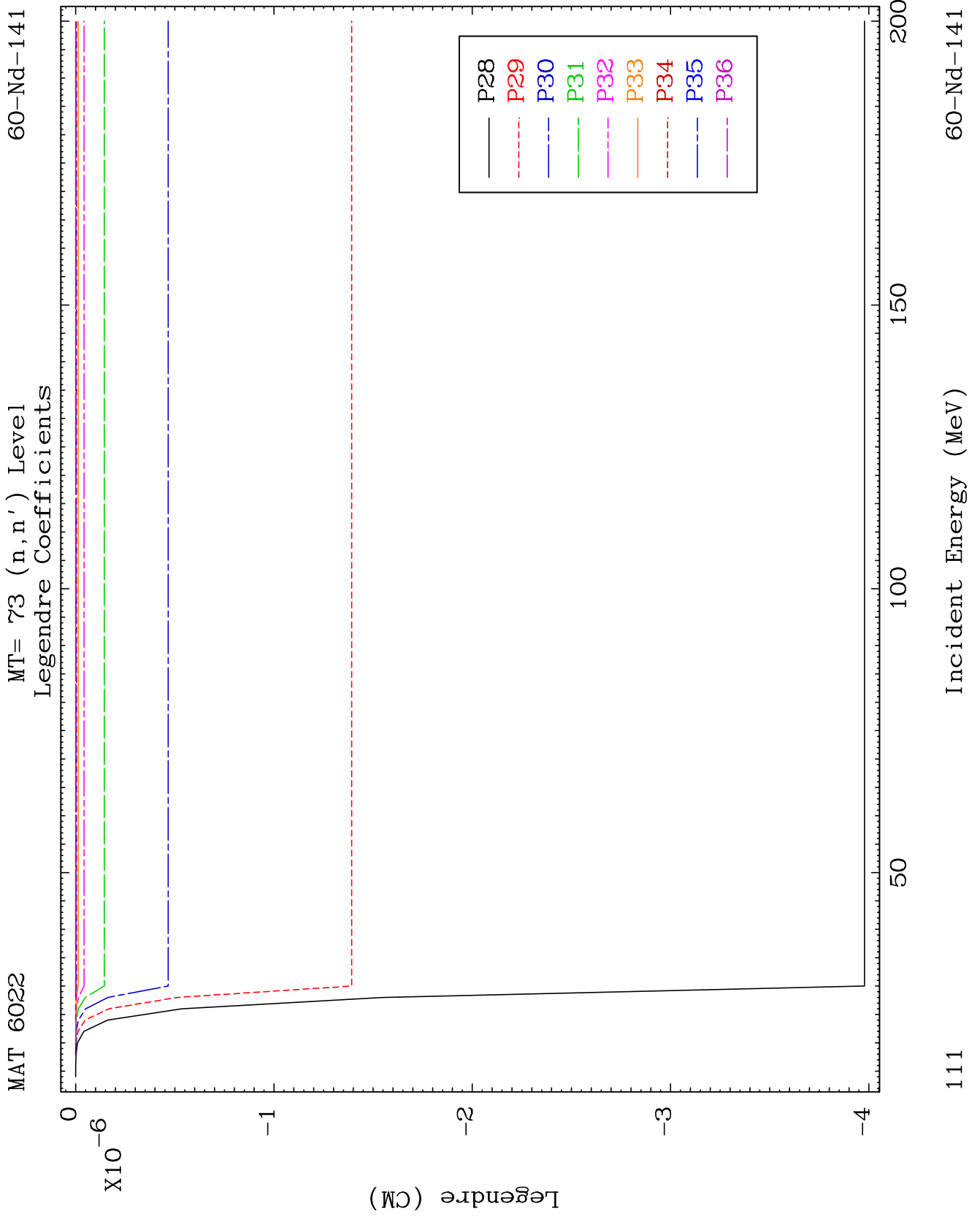
60-Nd-141

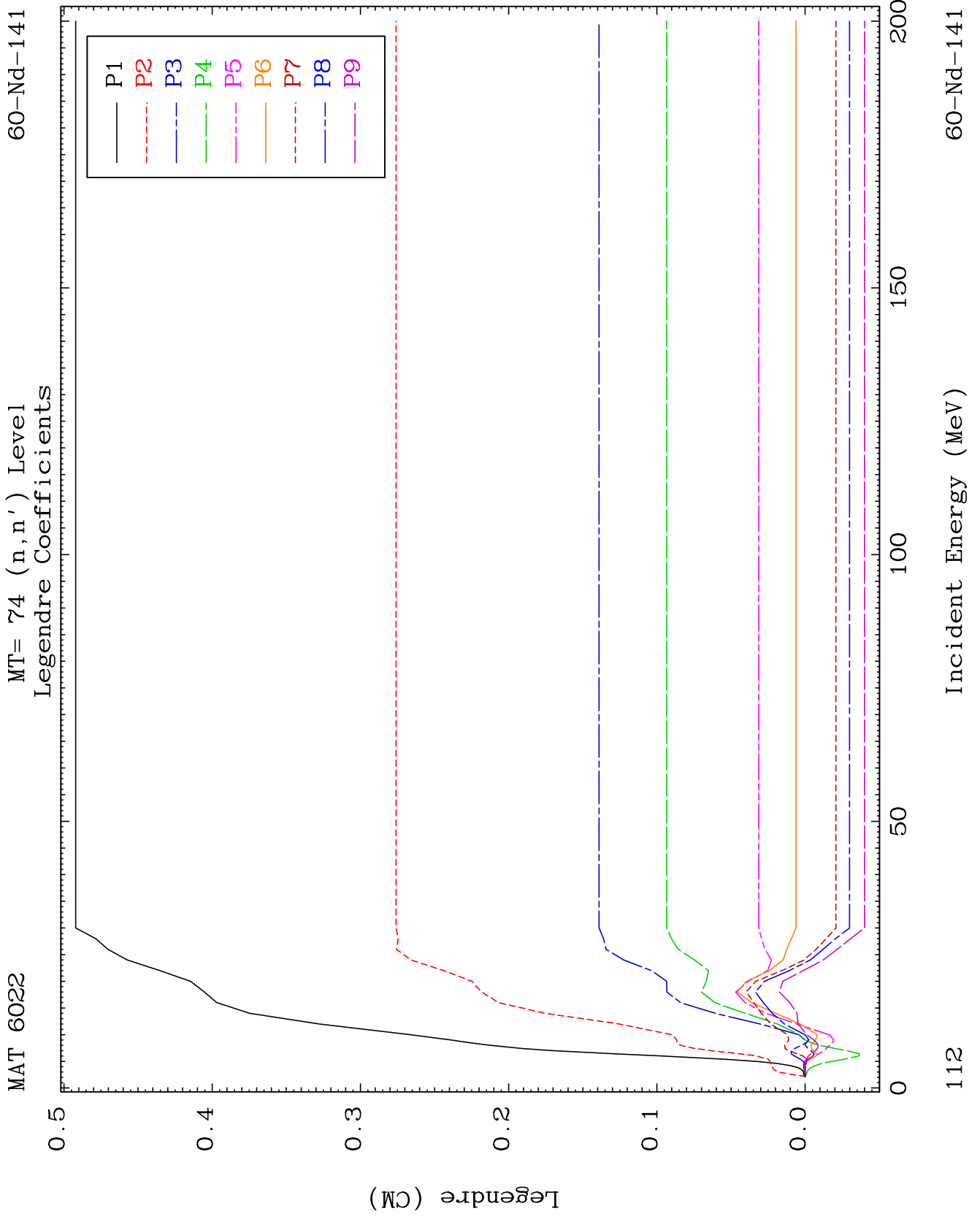


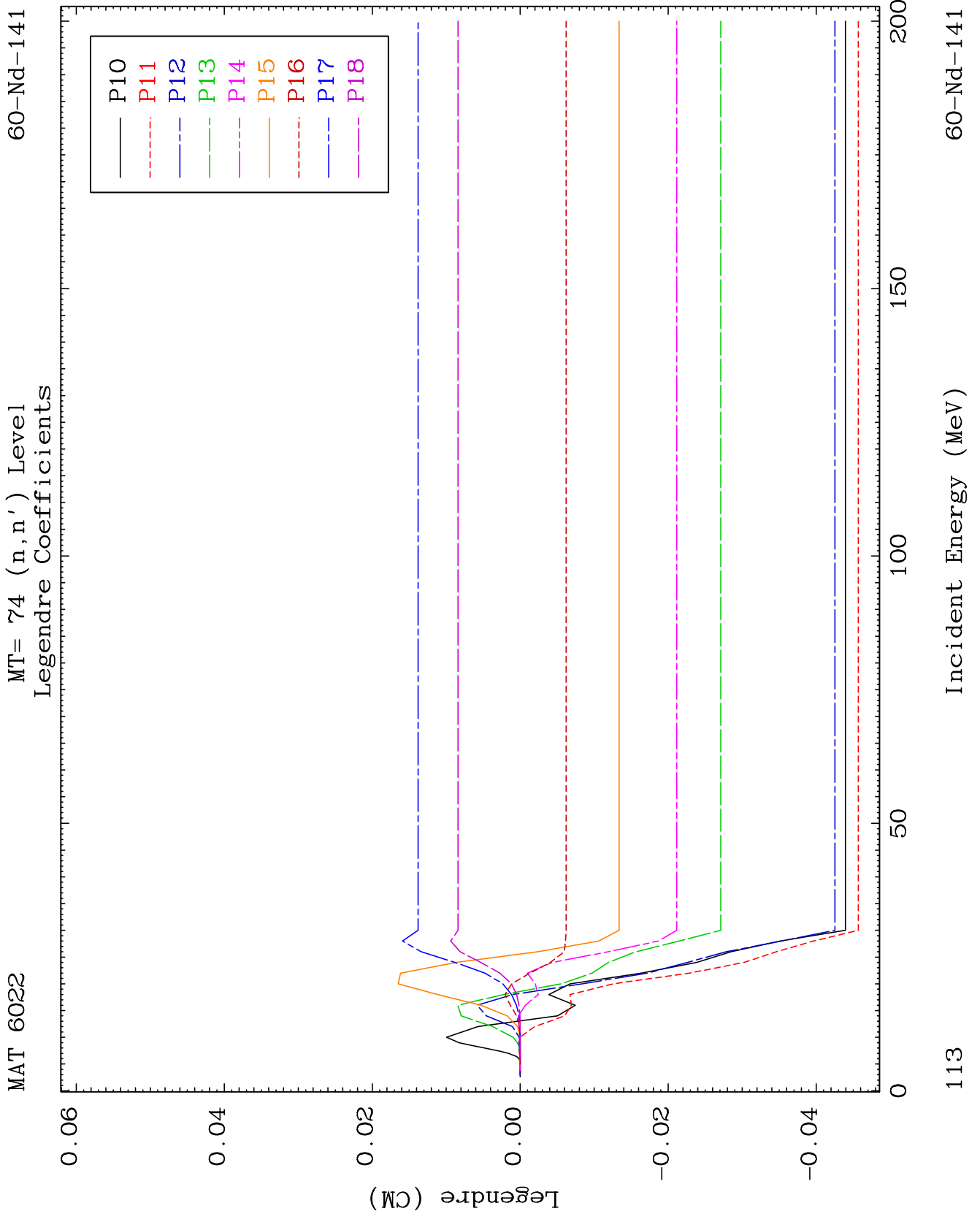
110

Incident Energy (MeV)

60-Nd-141



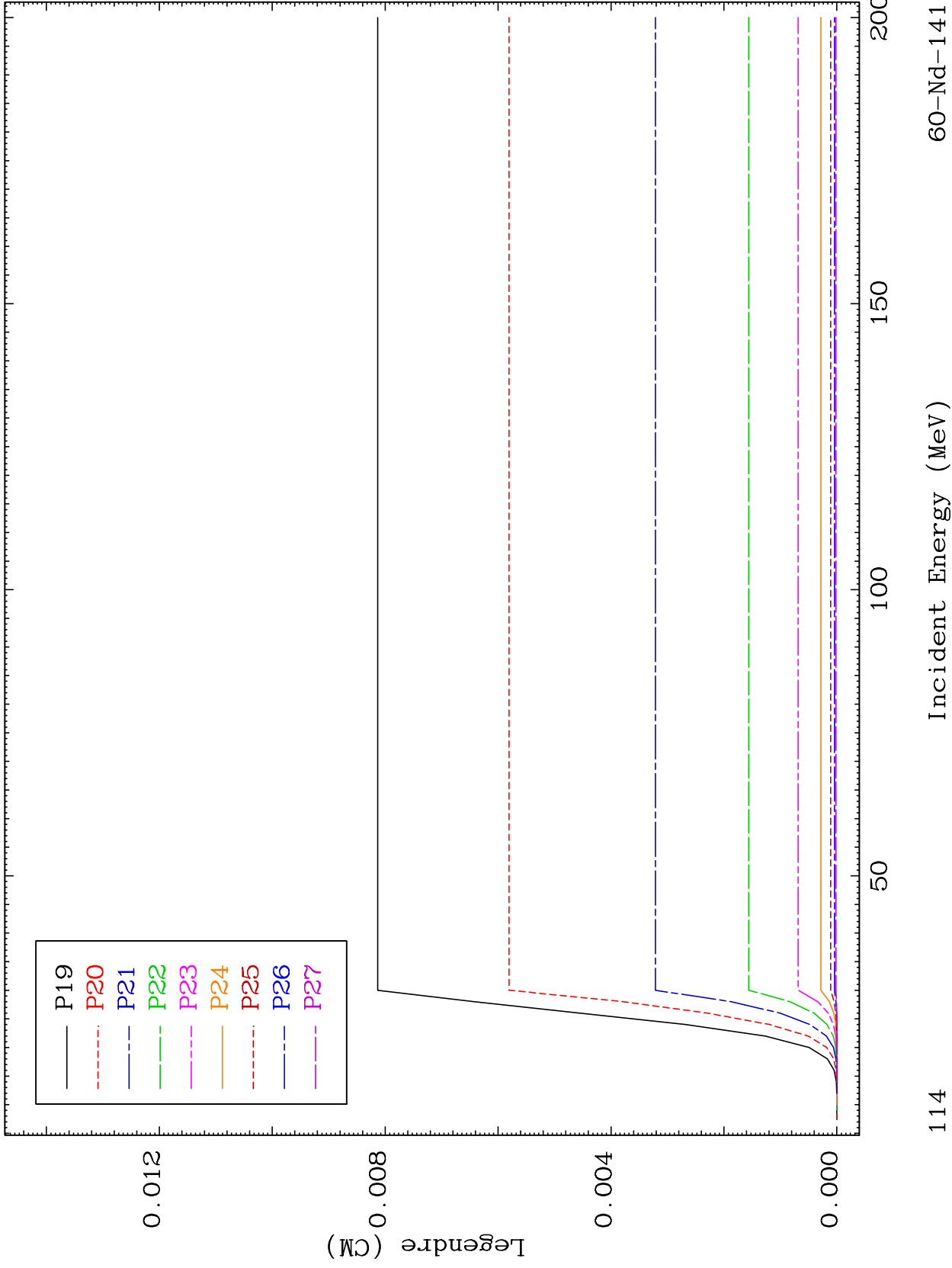




MAT 6022

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

60-Nd-141



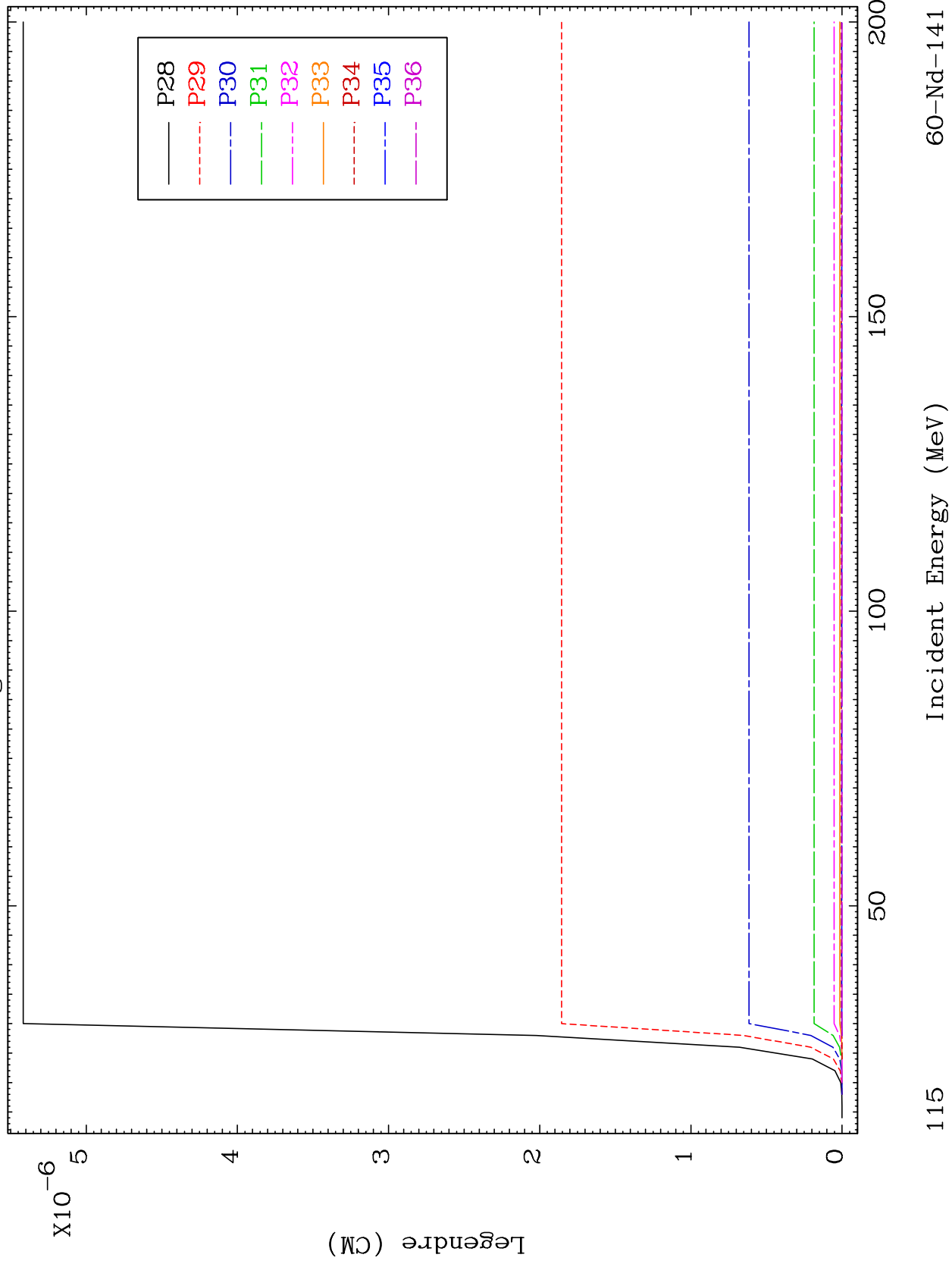
114

60-Nd-141

MAT 6022

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

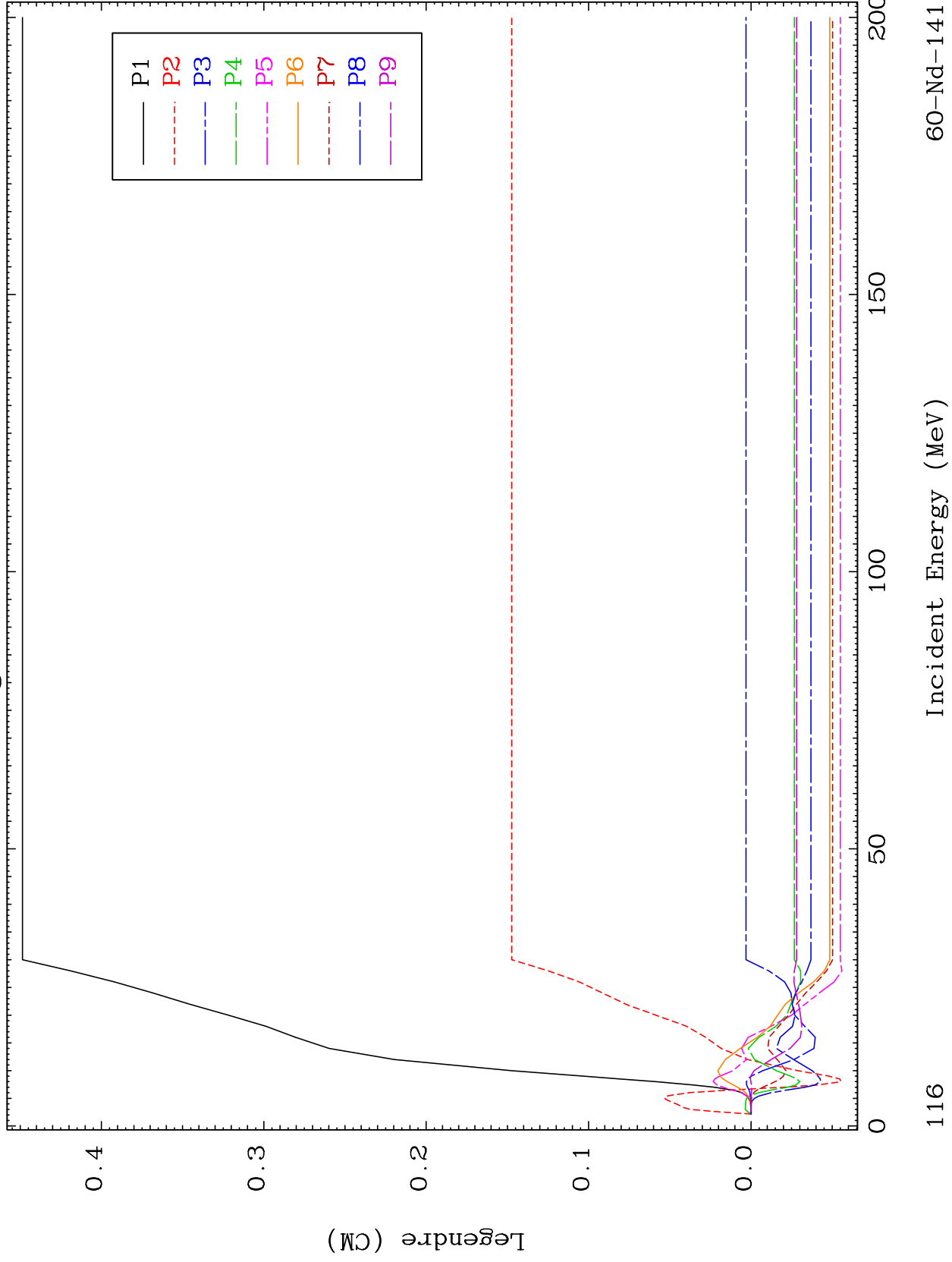
60-Nd-141



MAT 6022

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

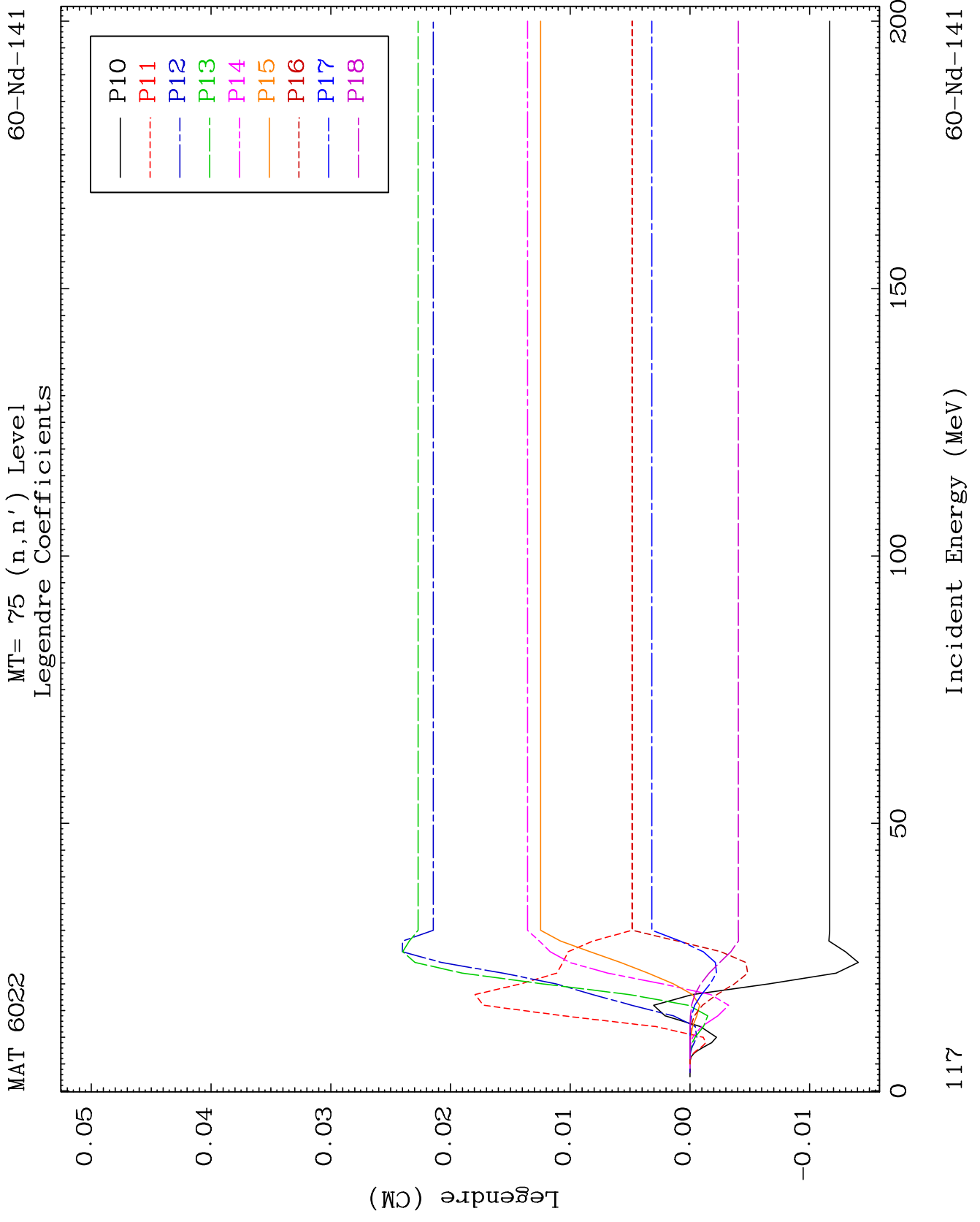
60-Nd-141



60-Nd-141

Incident Energy (MeV)

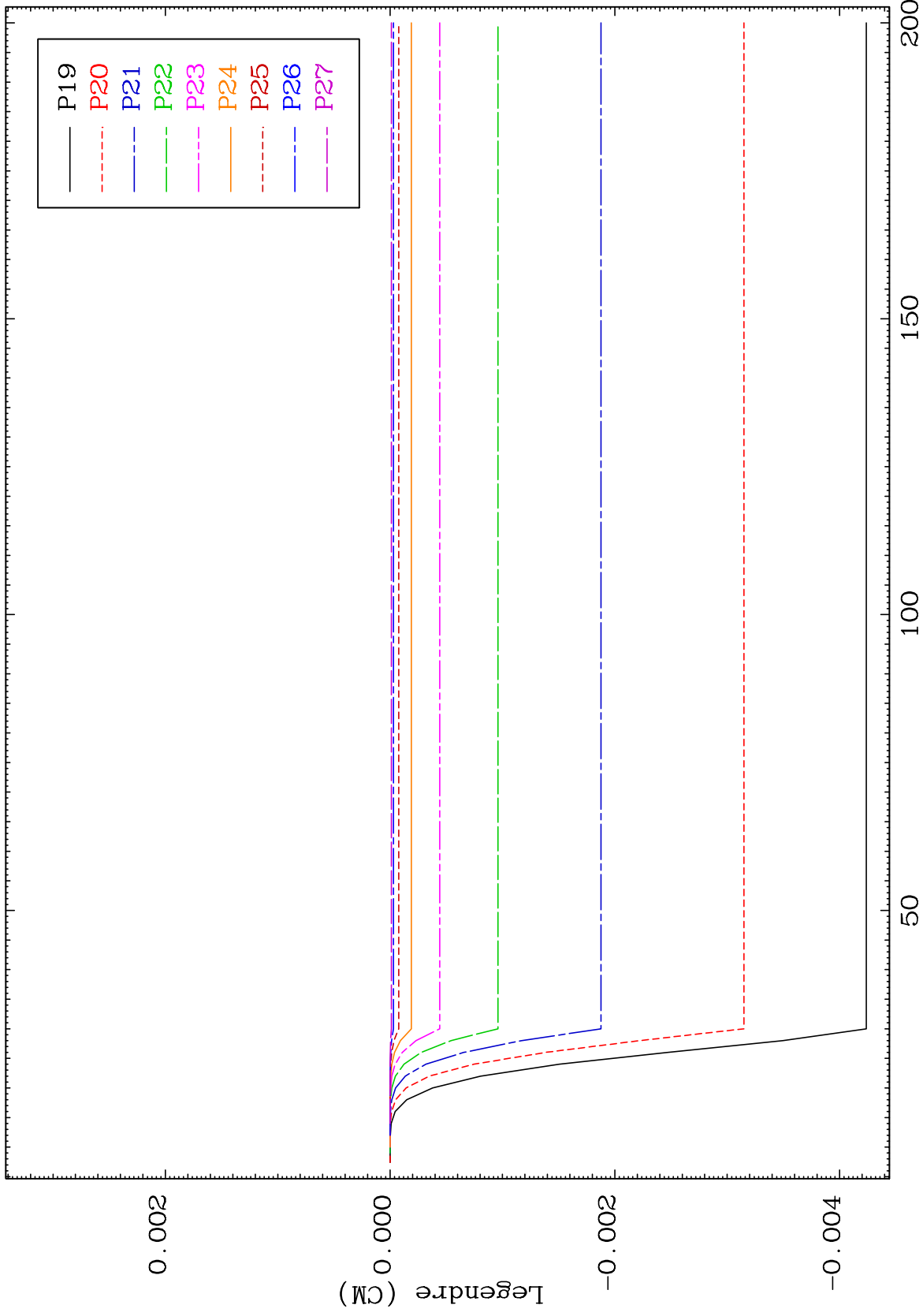
116



MAT 6022

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

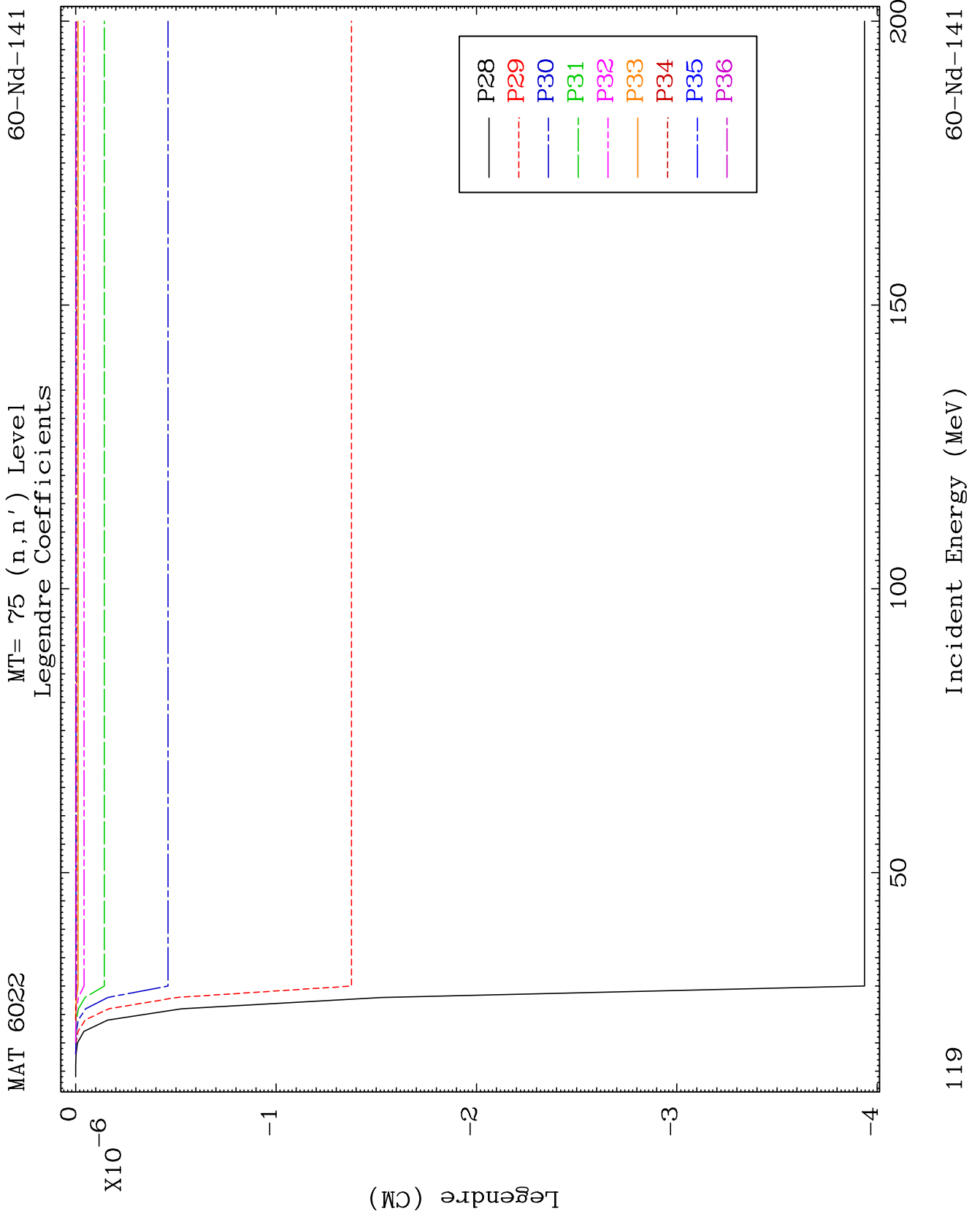
60-Nd-141

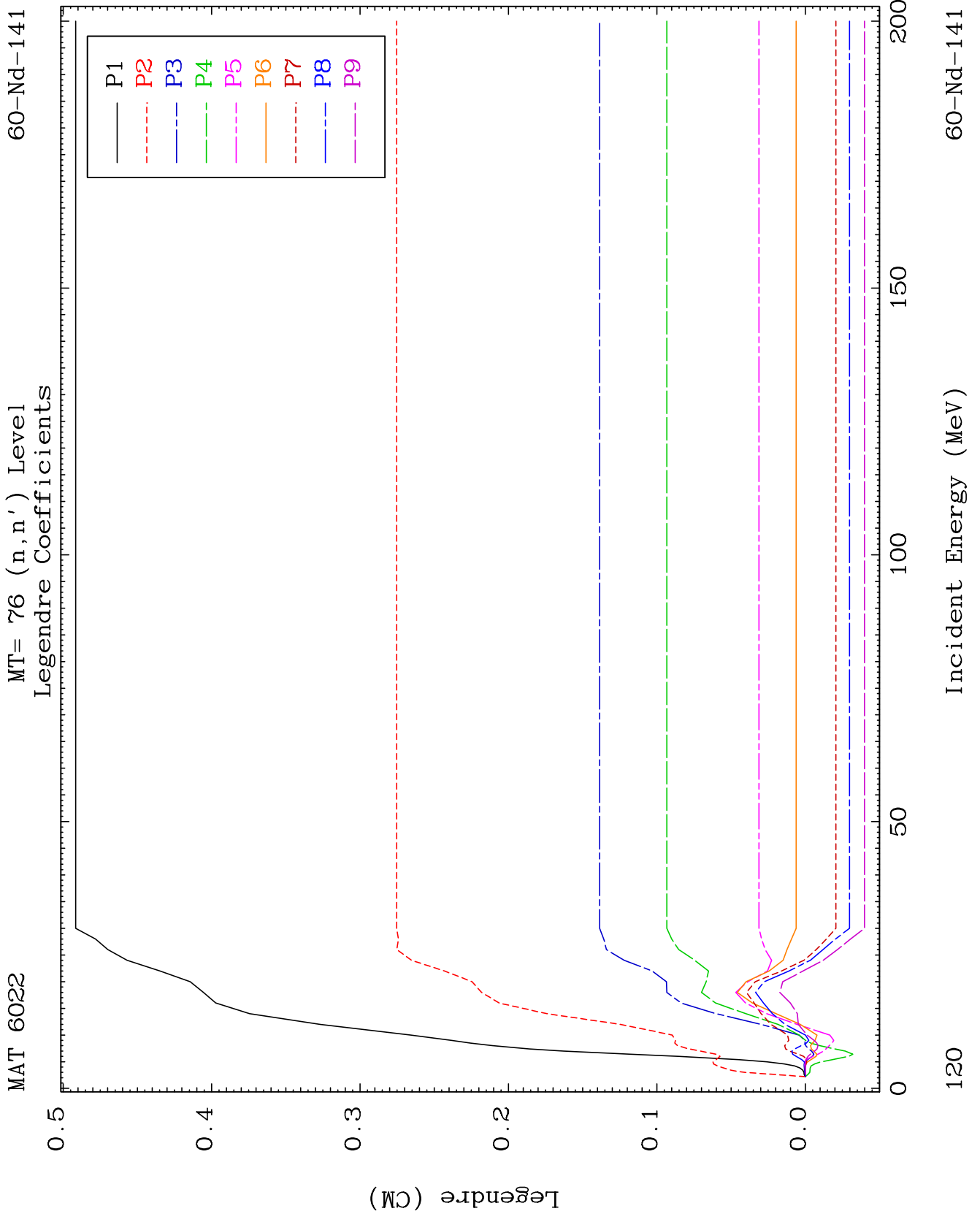


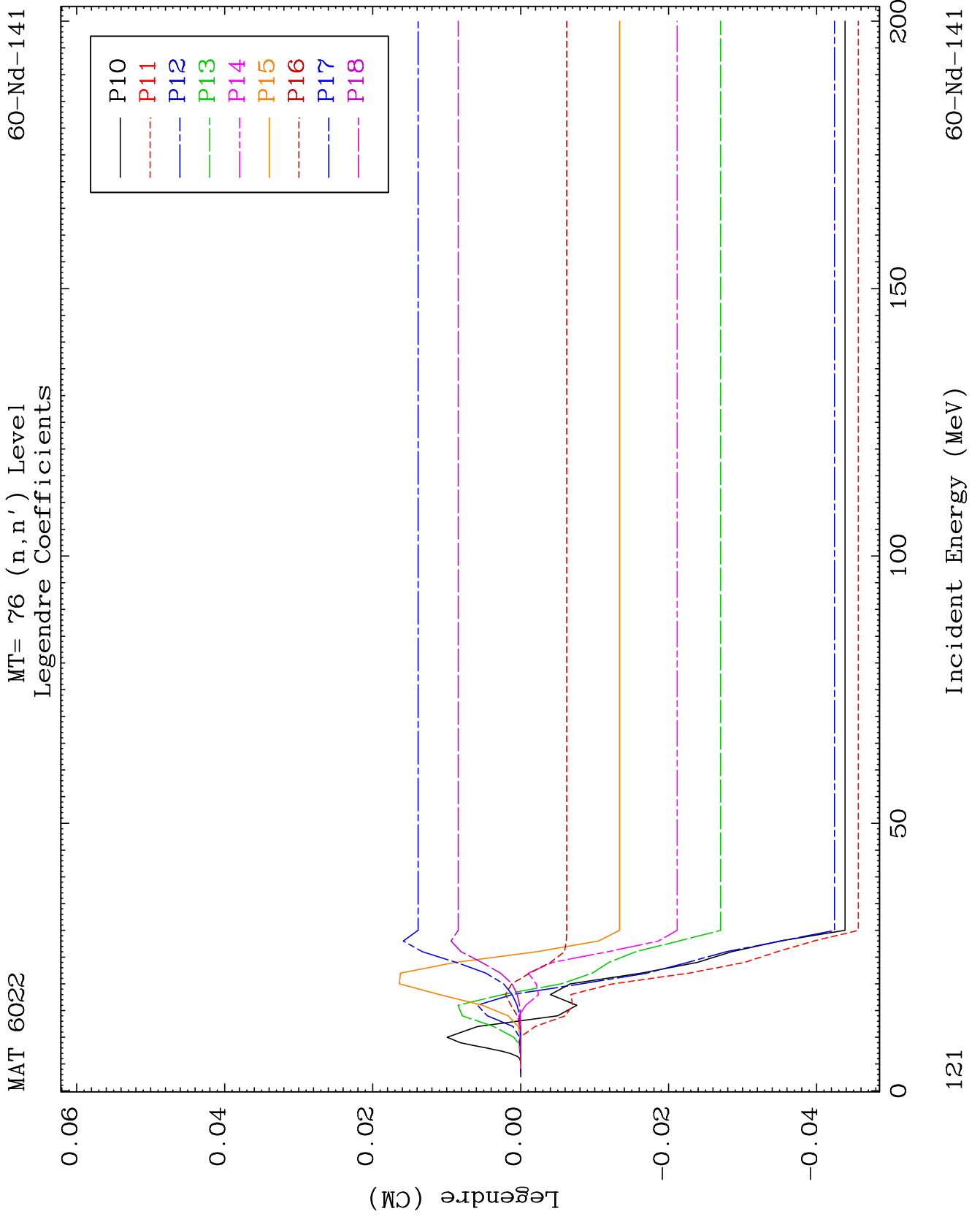
118

Incident Energy (MeV)

60-Nd-141



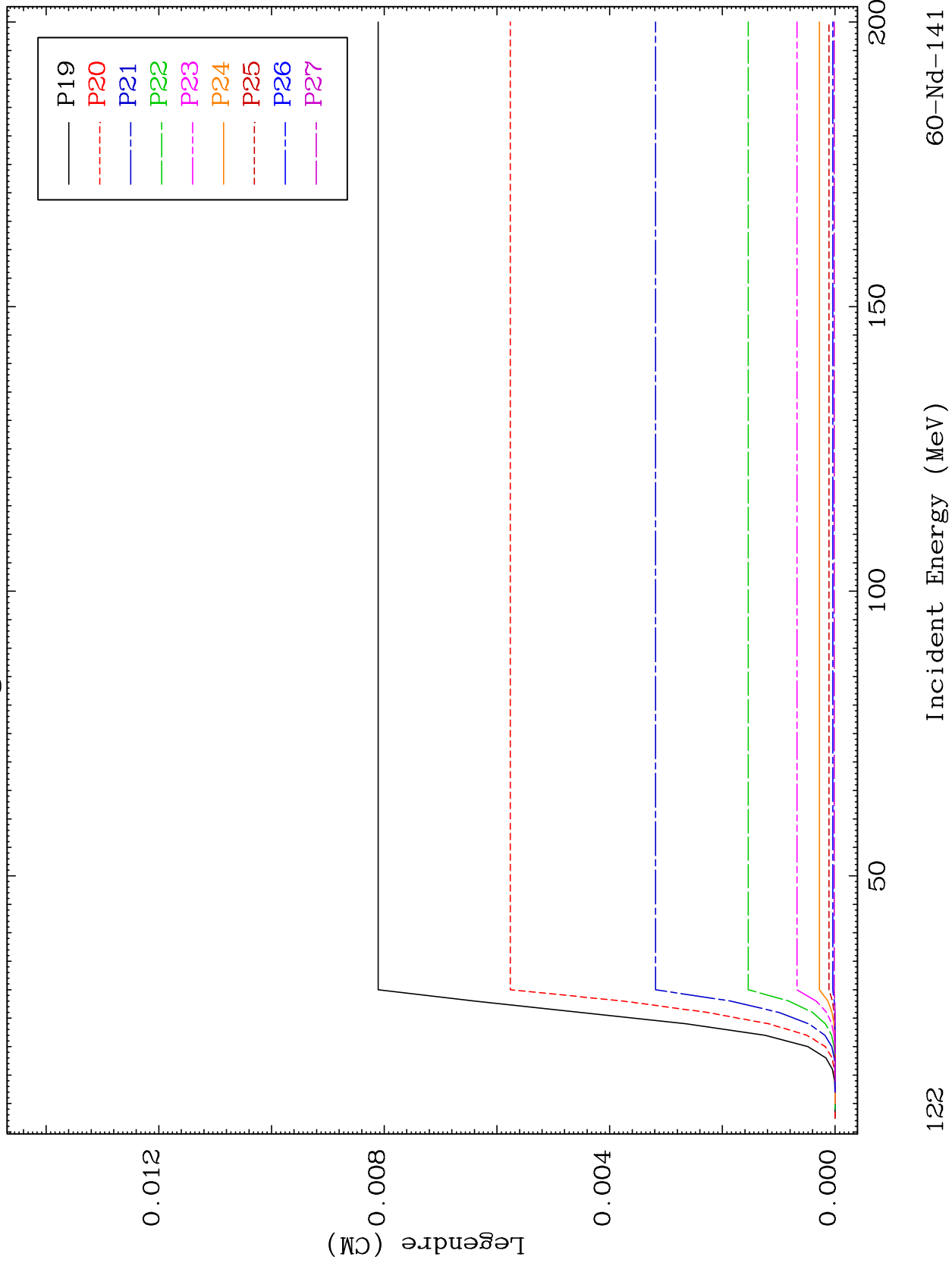




MAT 6022

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

60-Nd-141



122

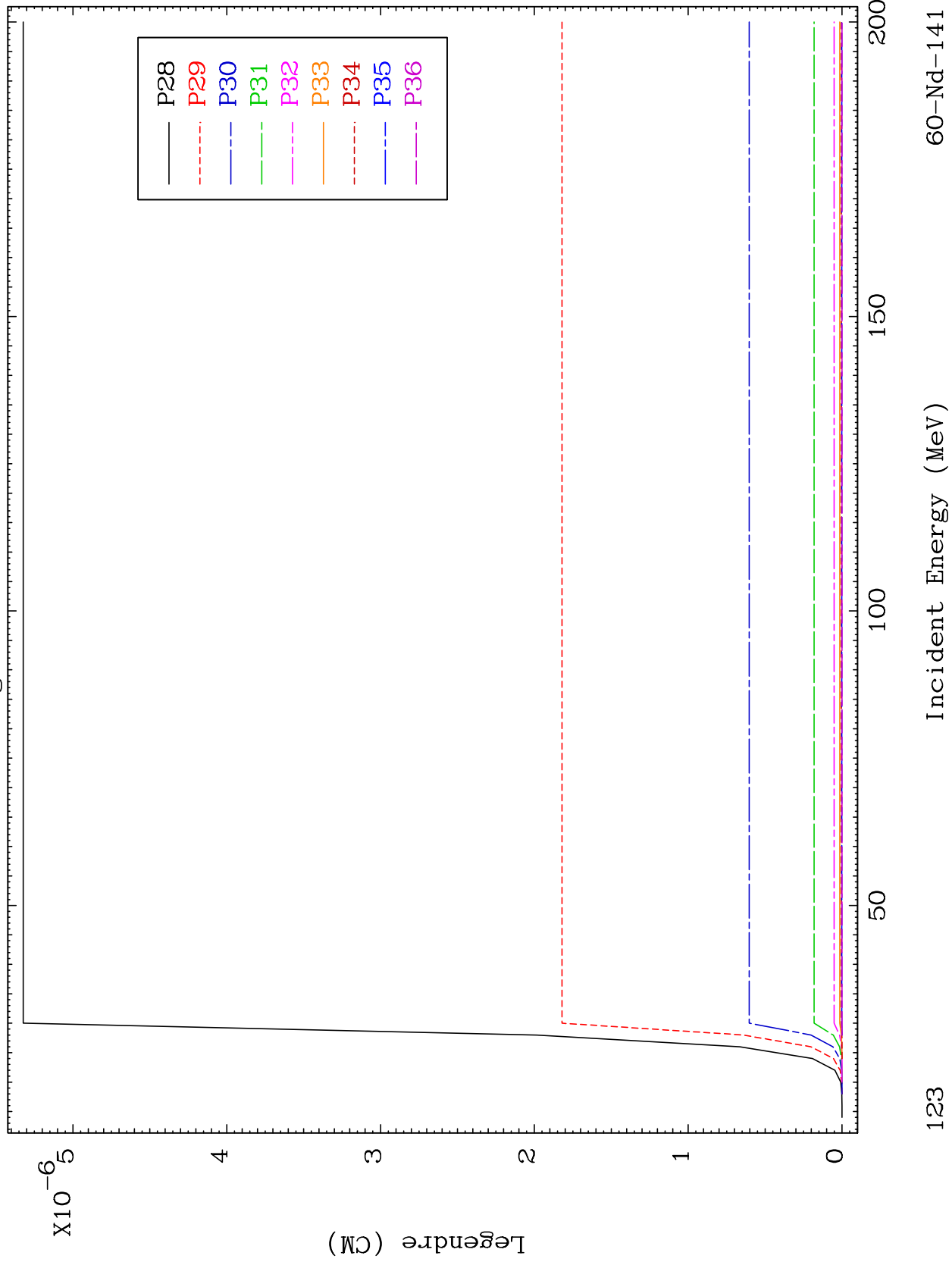
Incident Energy (MeV)

60-Nd-141

MAT 6022

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

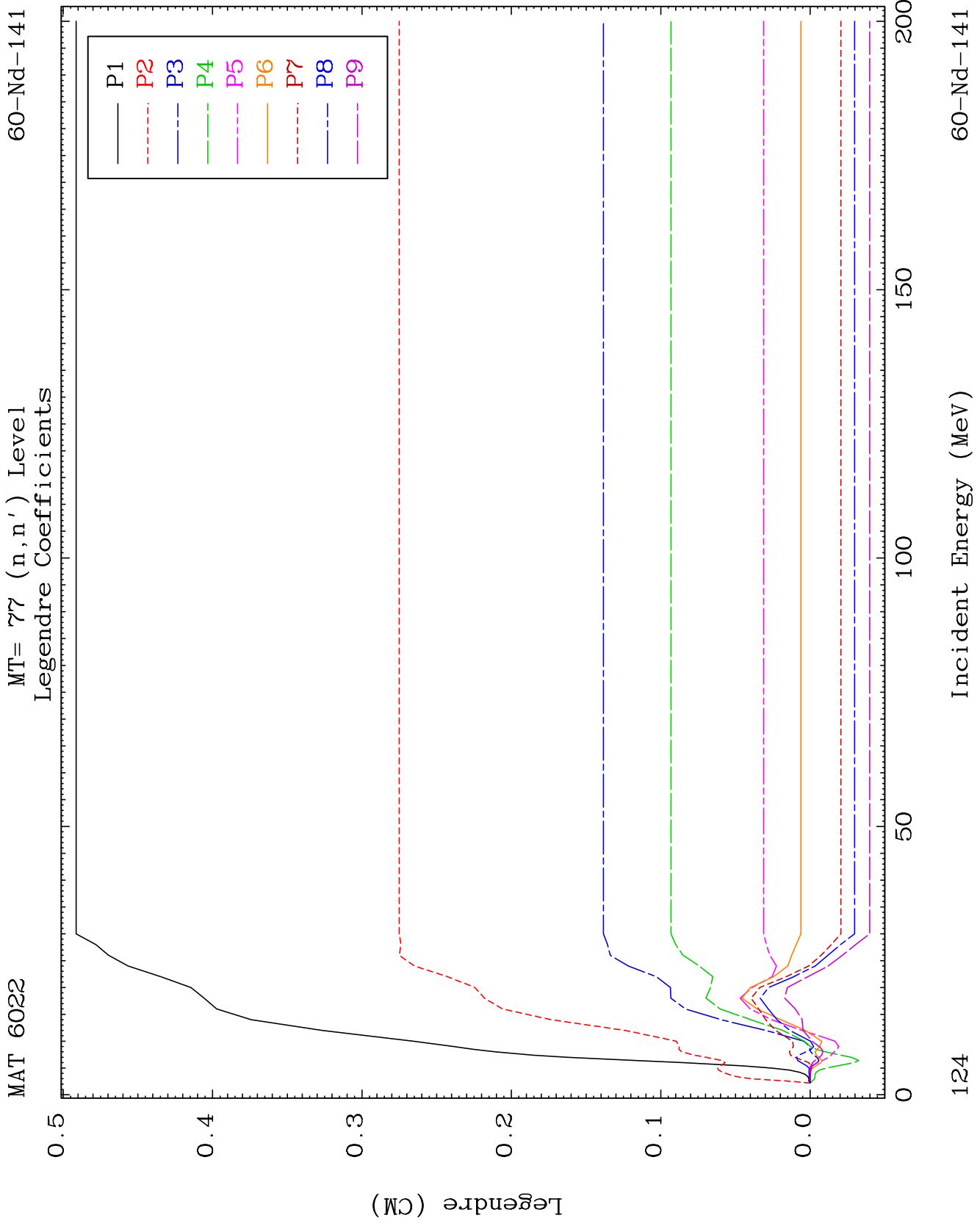
60-Nd-141

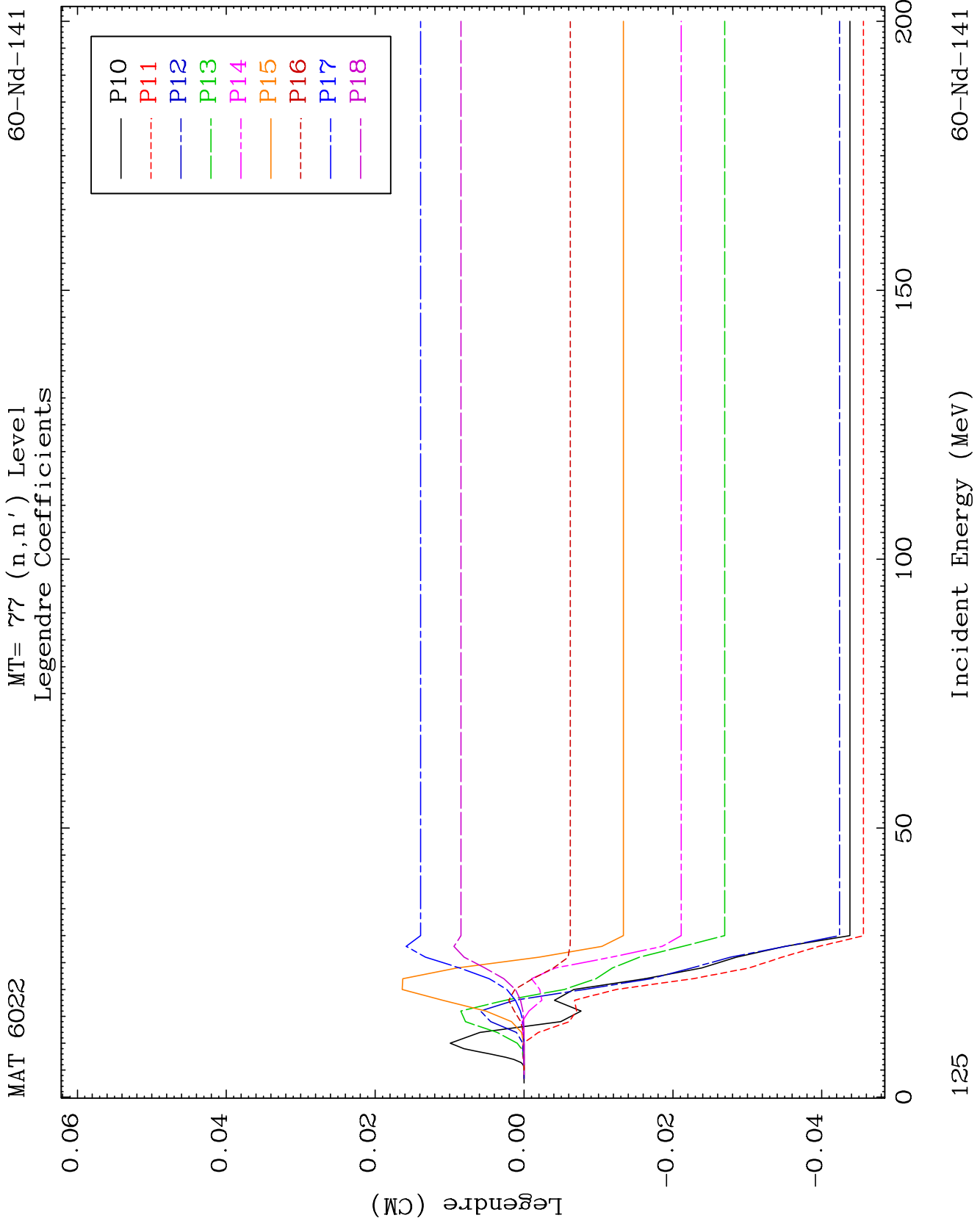


123

Incident Energy (MeV)

60-Nd-141

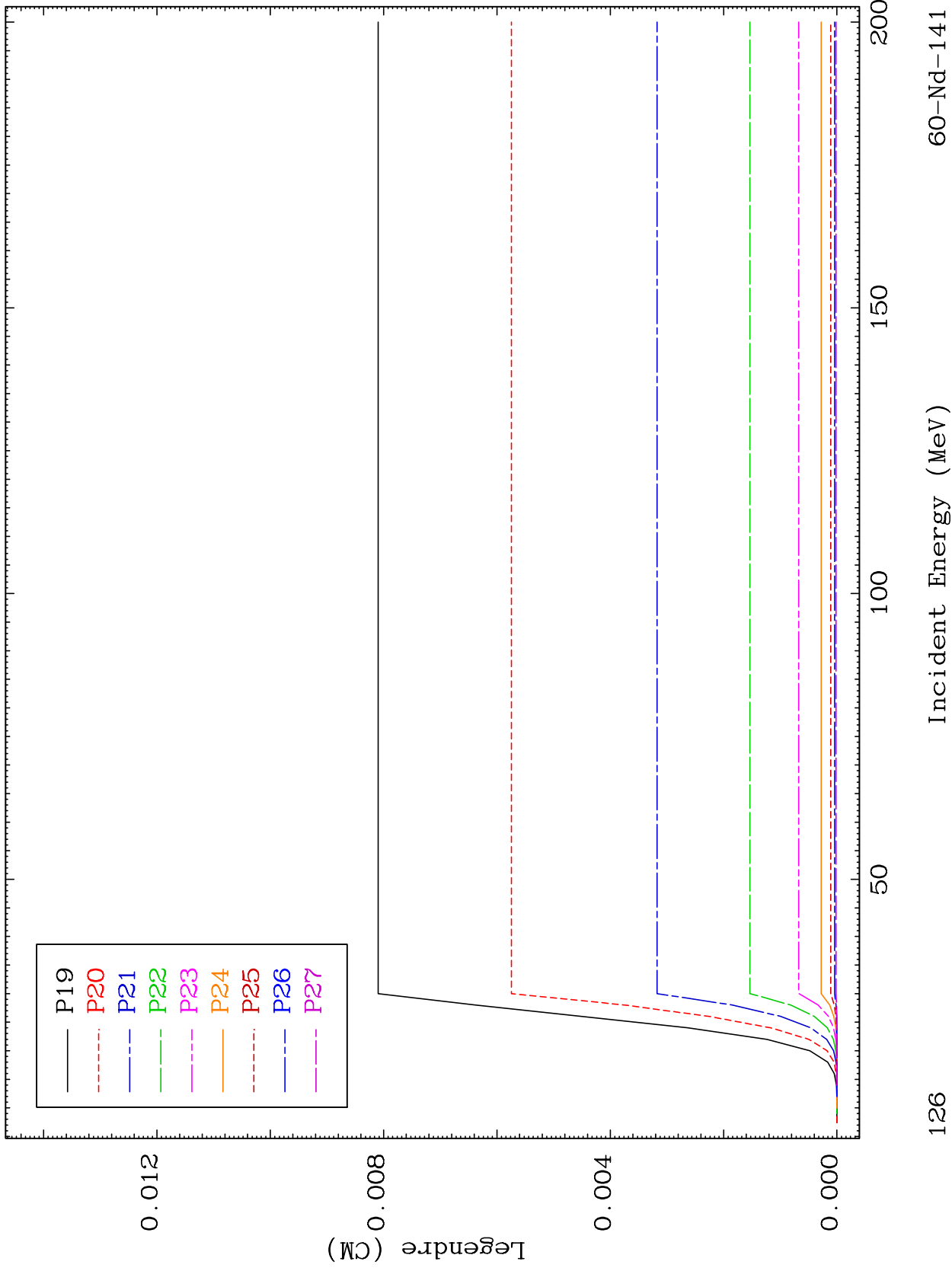




MAT 6022

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

60-Nd-141



126

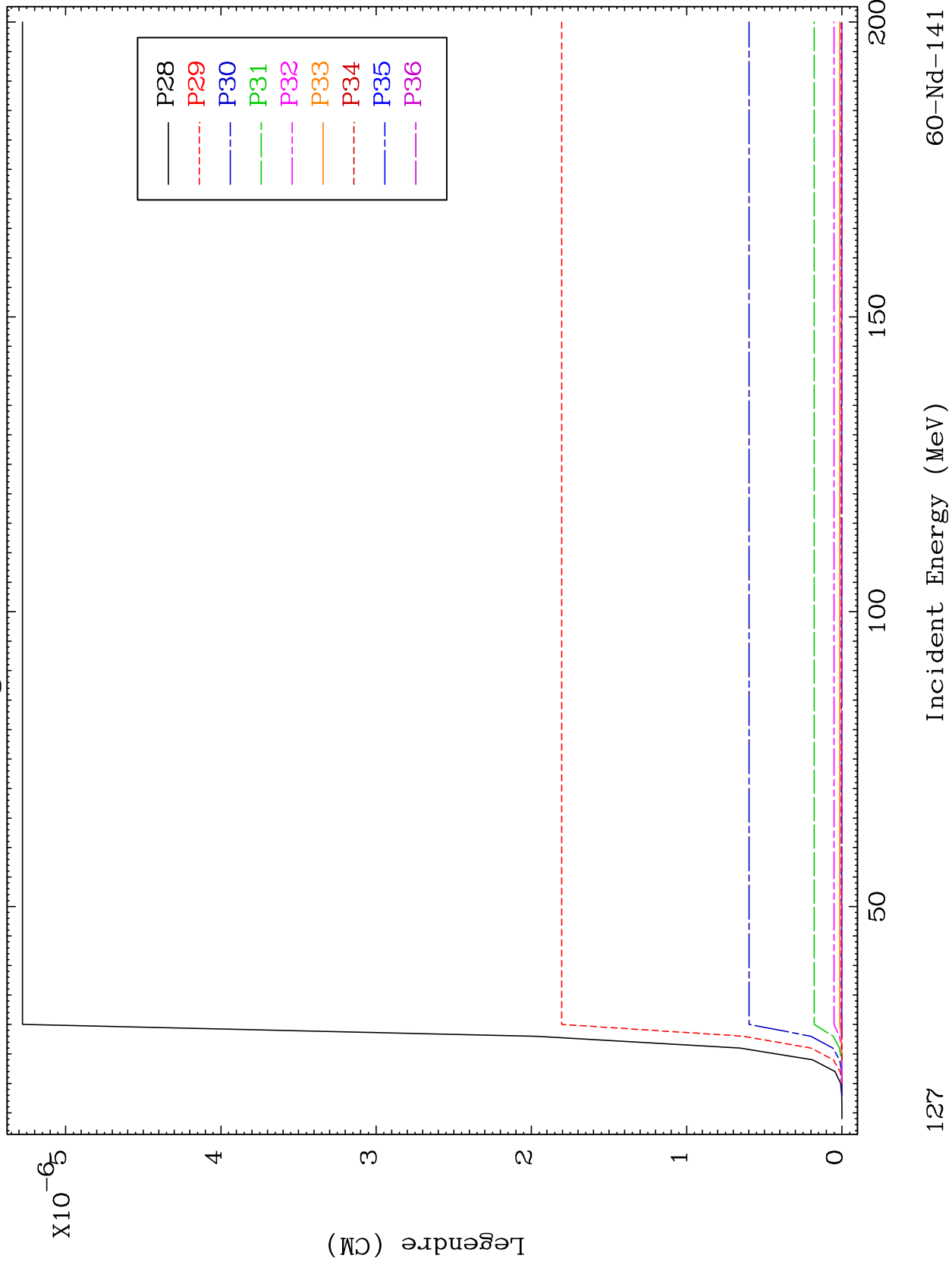
Incident Energy (MeV)

60-Nd-141

MAT 6022

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

60-Nd-141

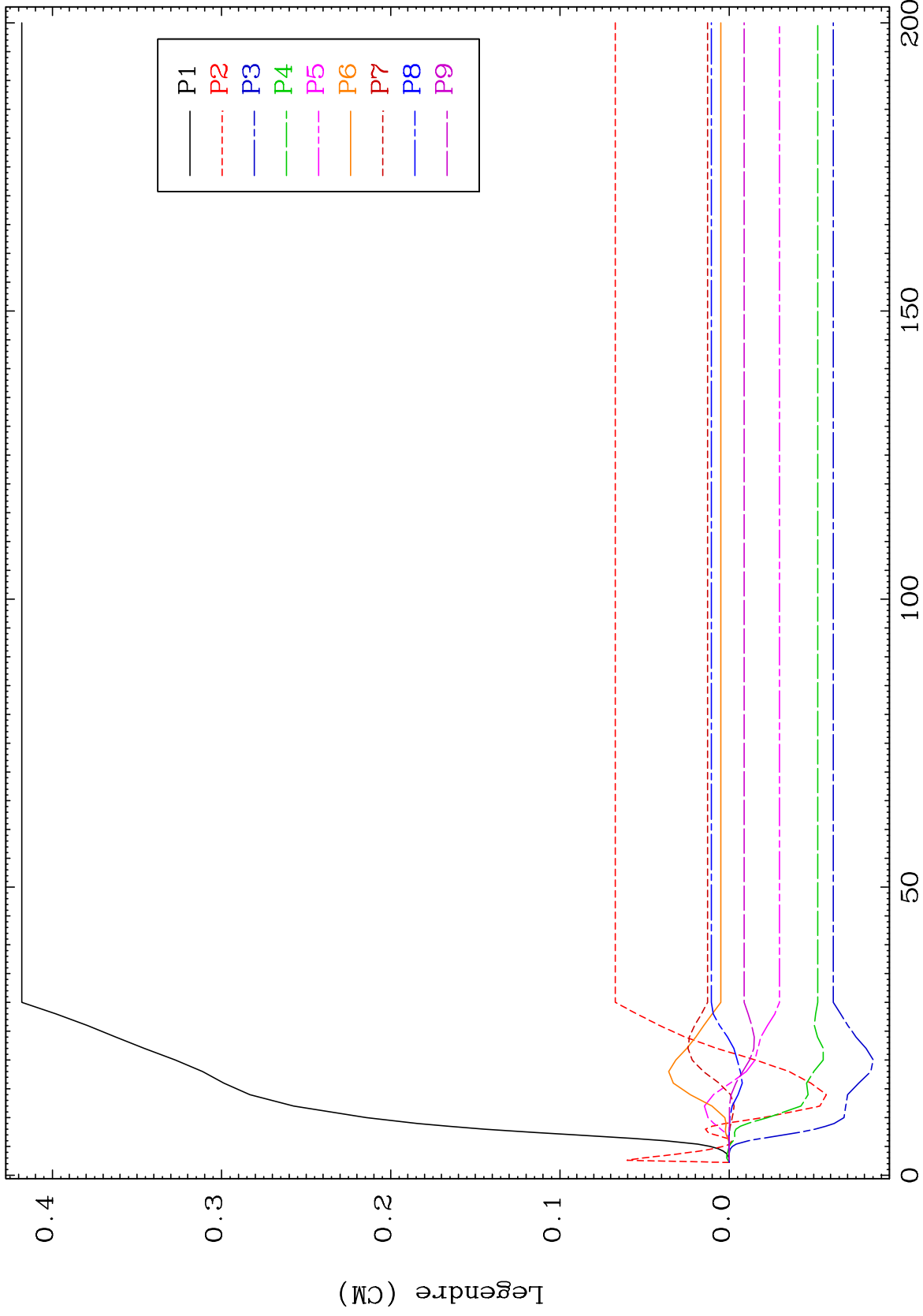


127

MAT 6022

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

60-Nd-141



60-Nd-141

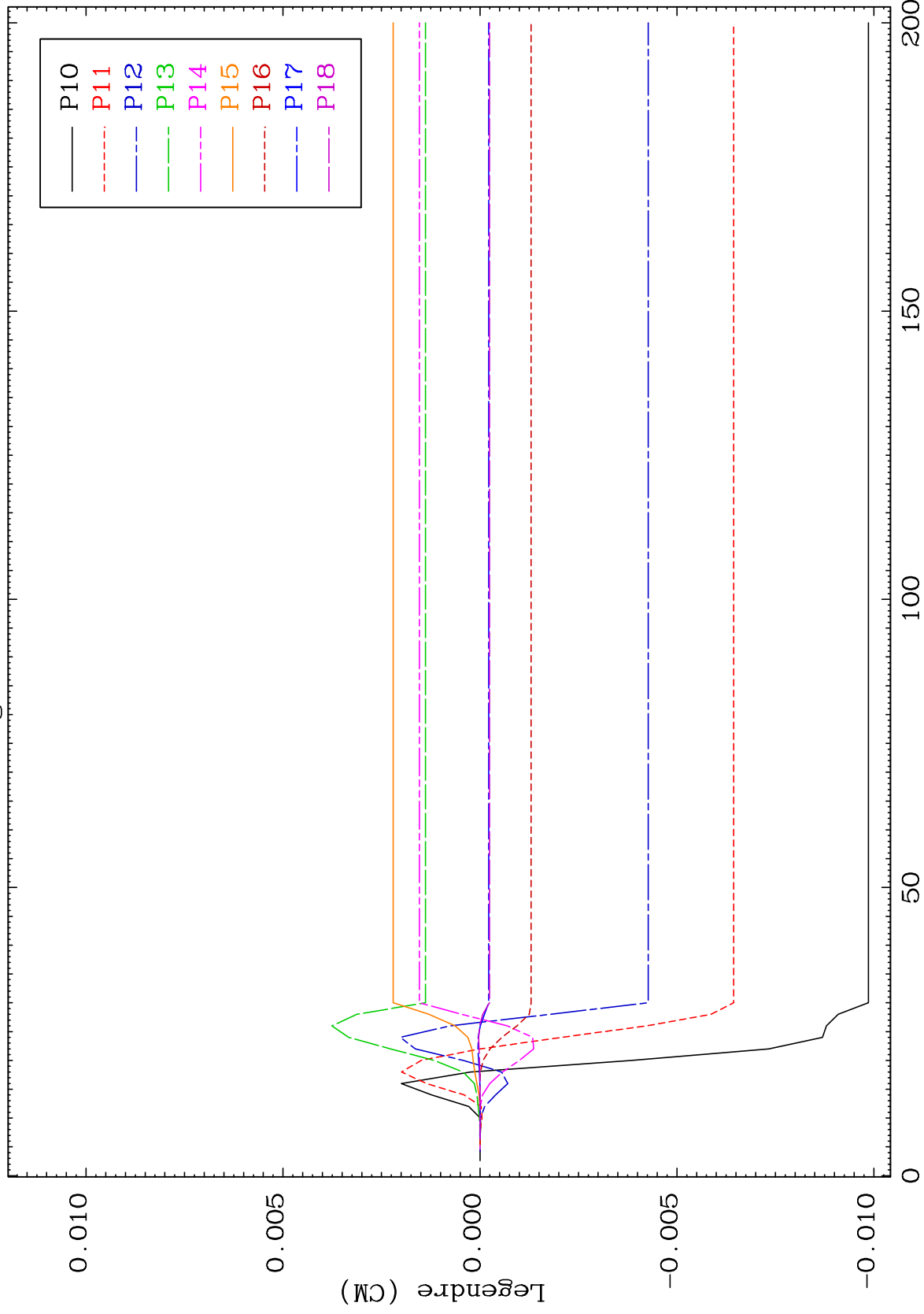
Incident Energy (MeV)

128

MAT 6022

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

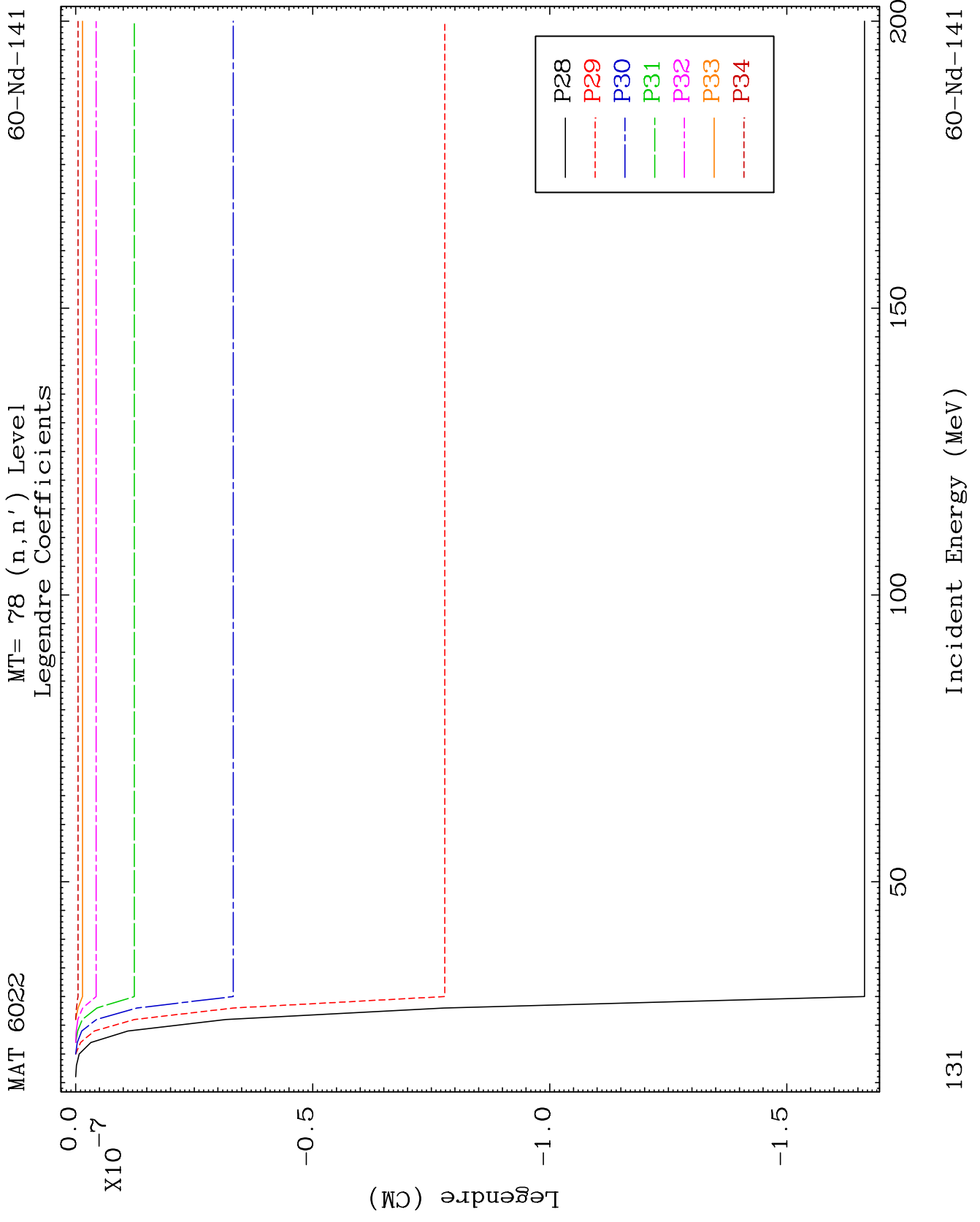
60-Nd-141



129

Incident Energy (MeV)

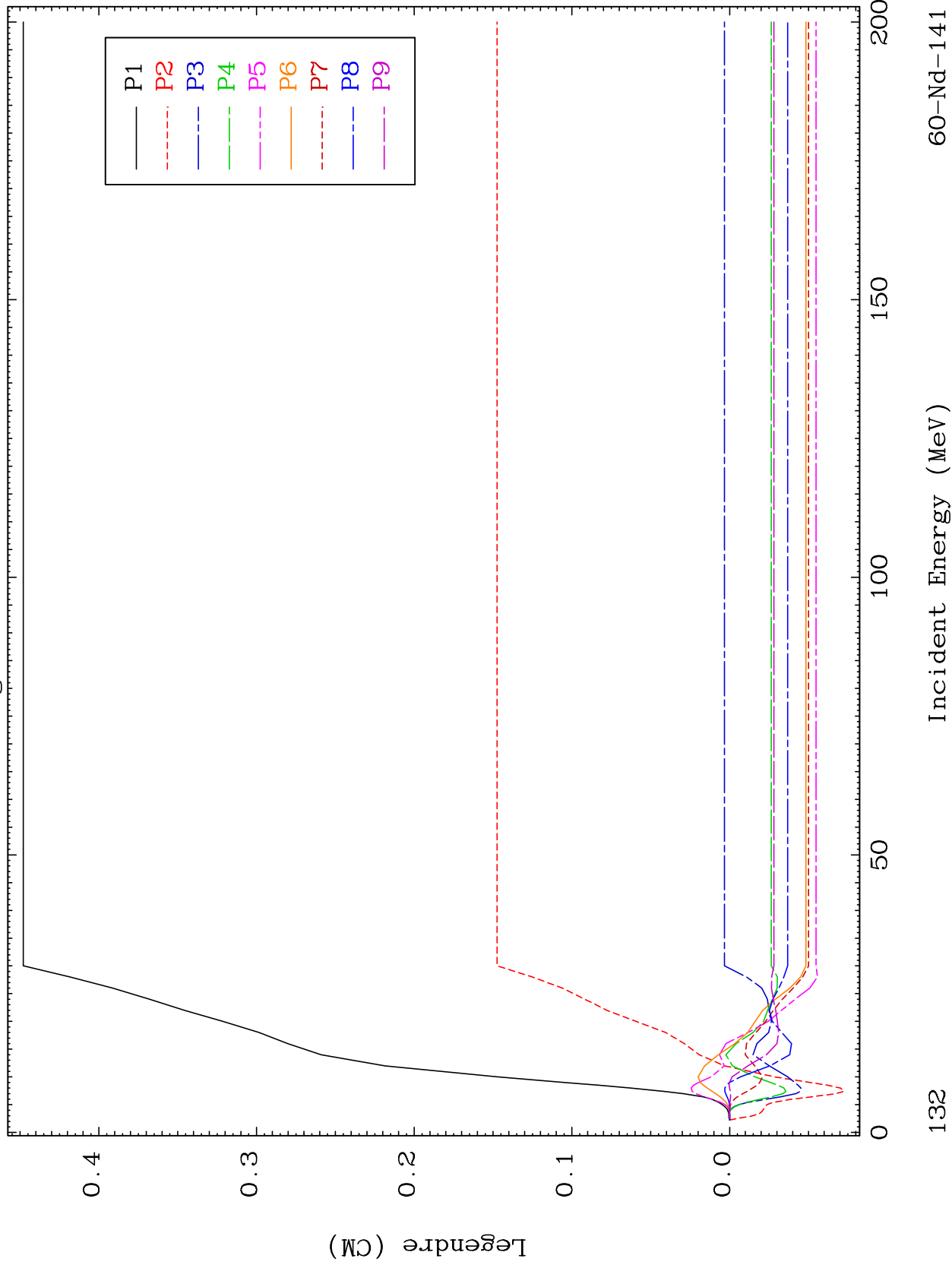
60-Nd-141



MAT 6022

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

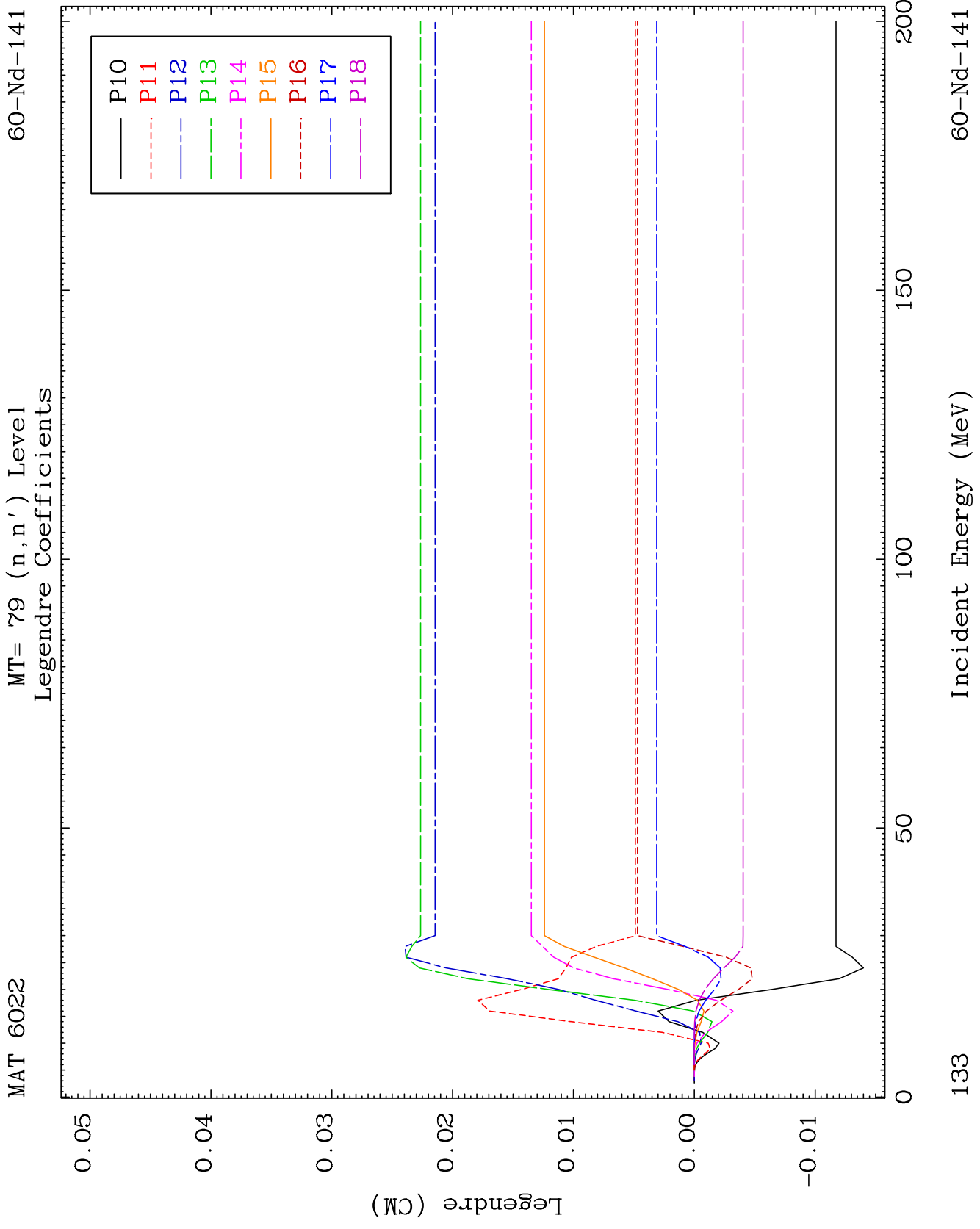
60-Nd-141



60-Nd-141

Incident Energy (MeV)

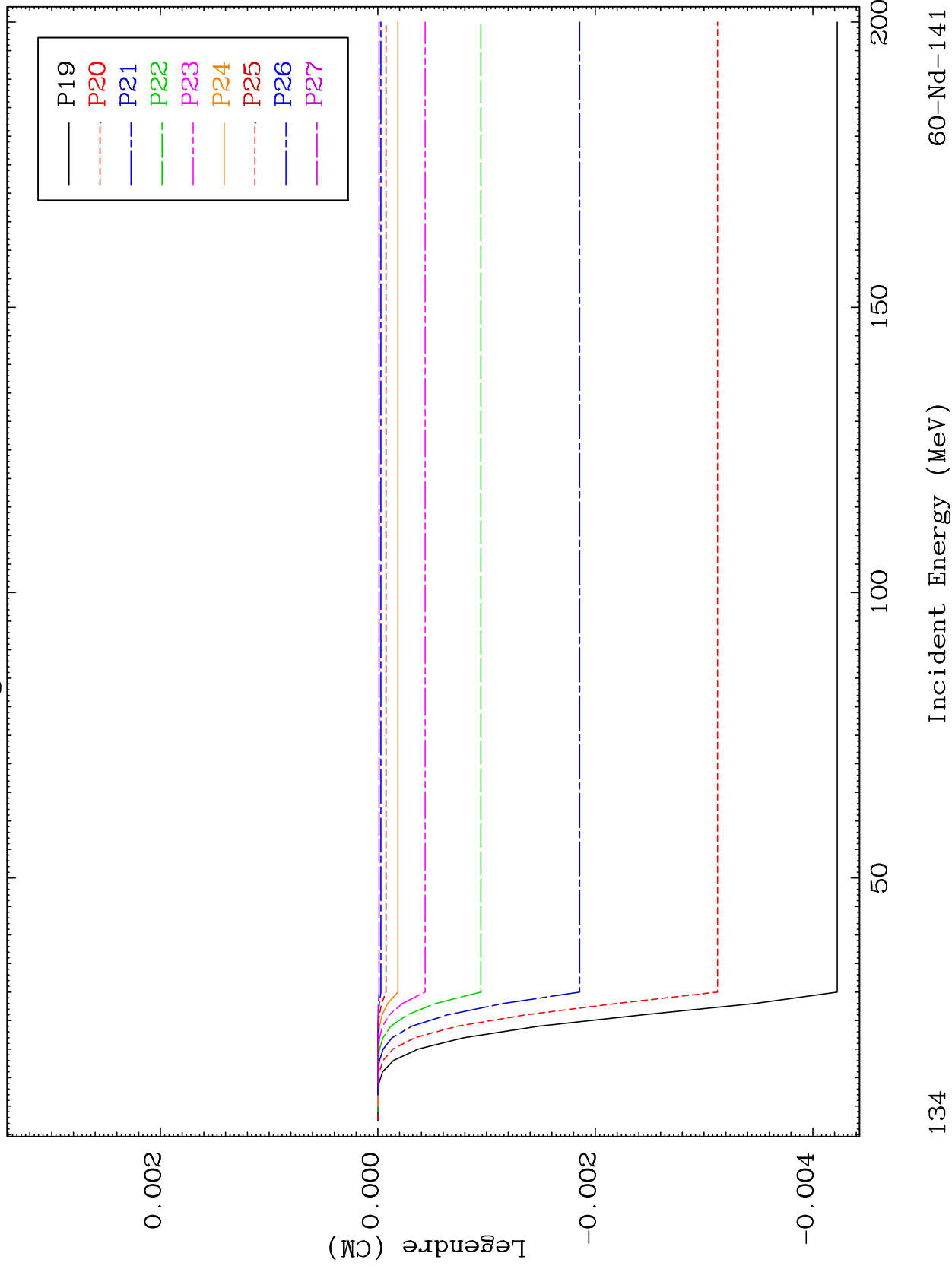
132



MAT 6022

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

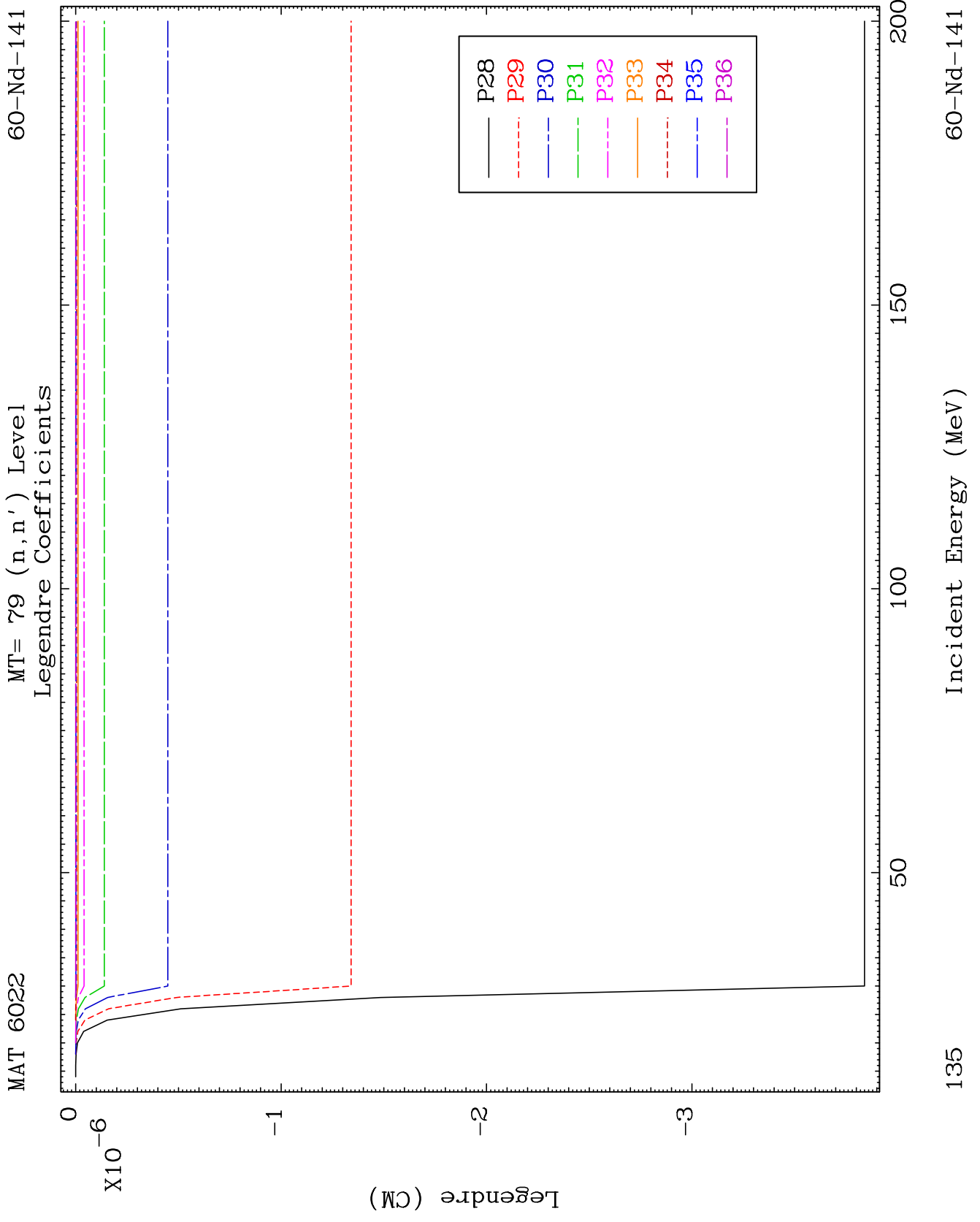
60-Nd-141

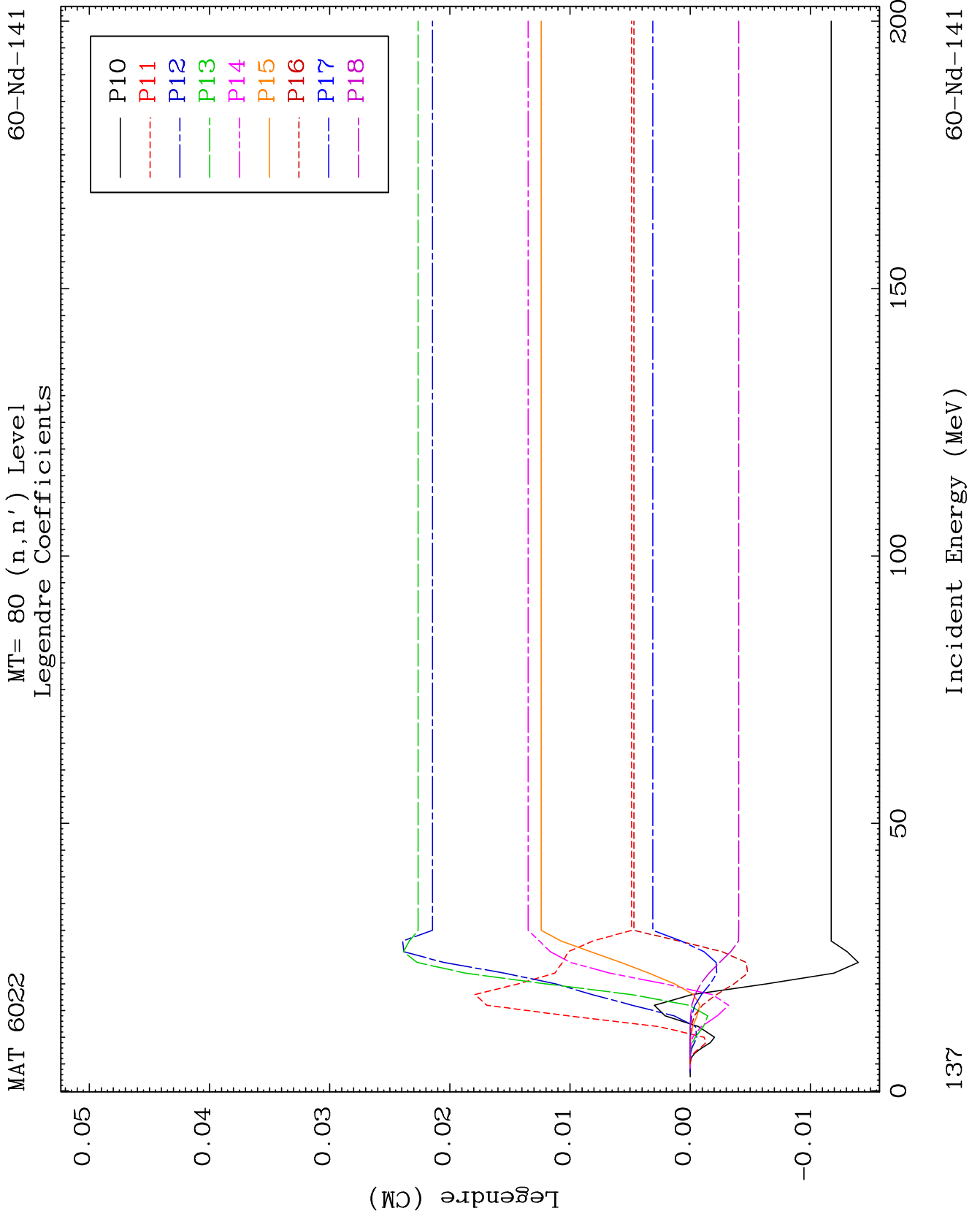


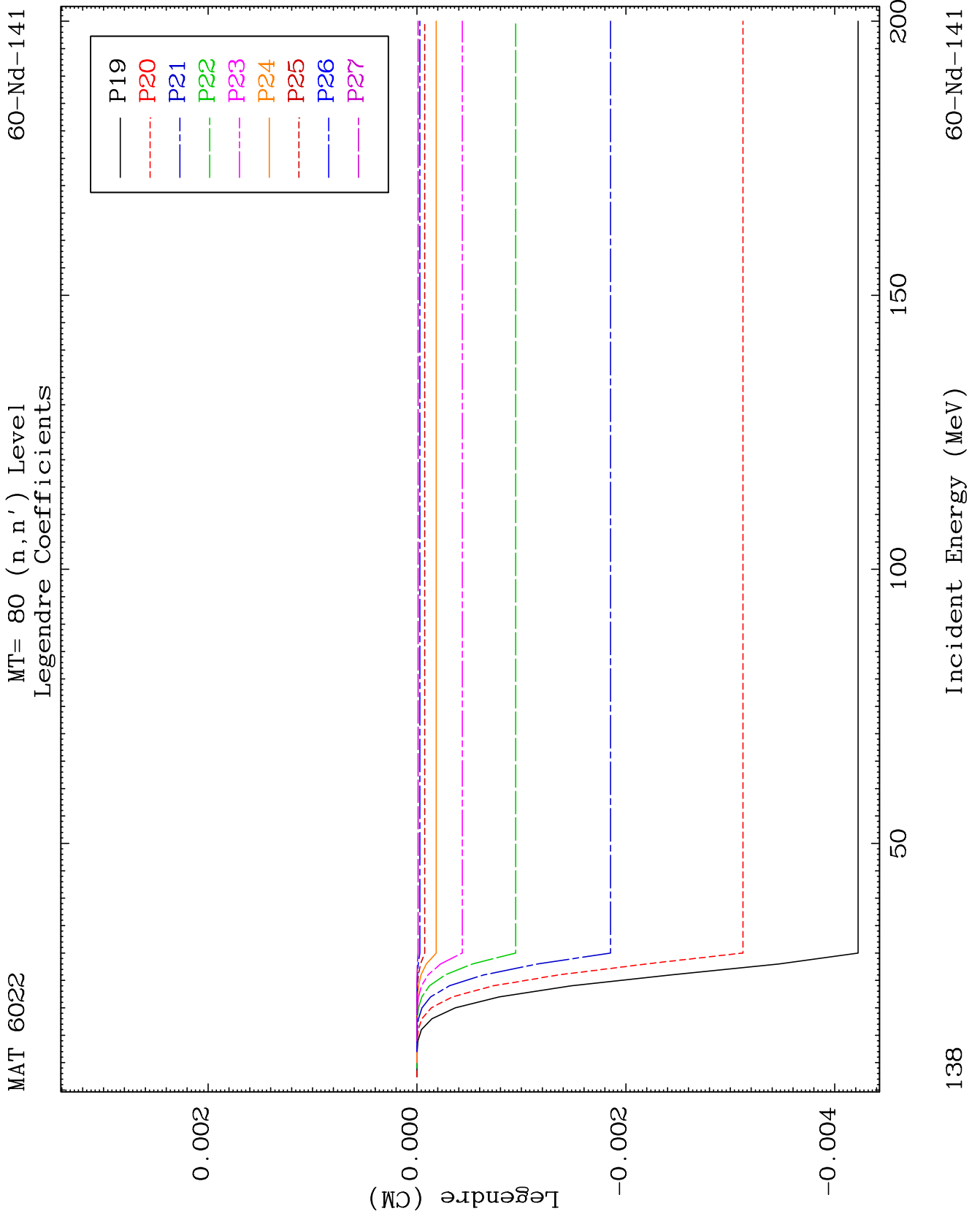
134

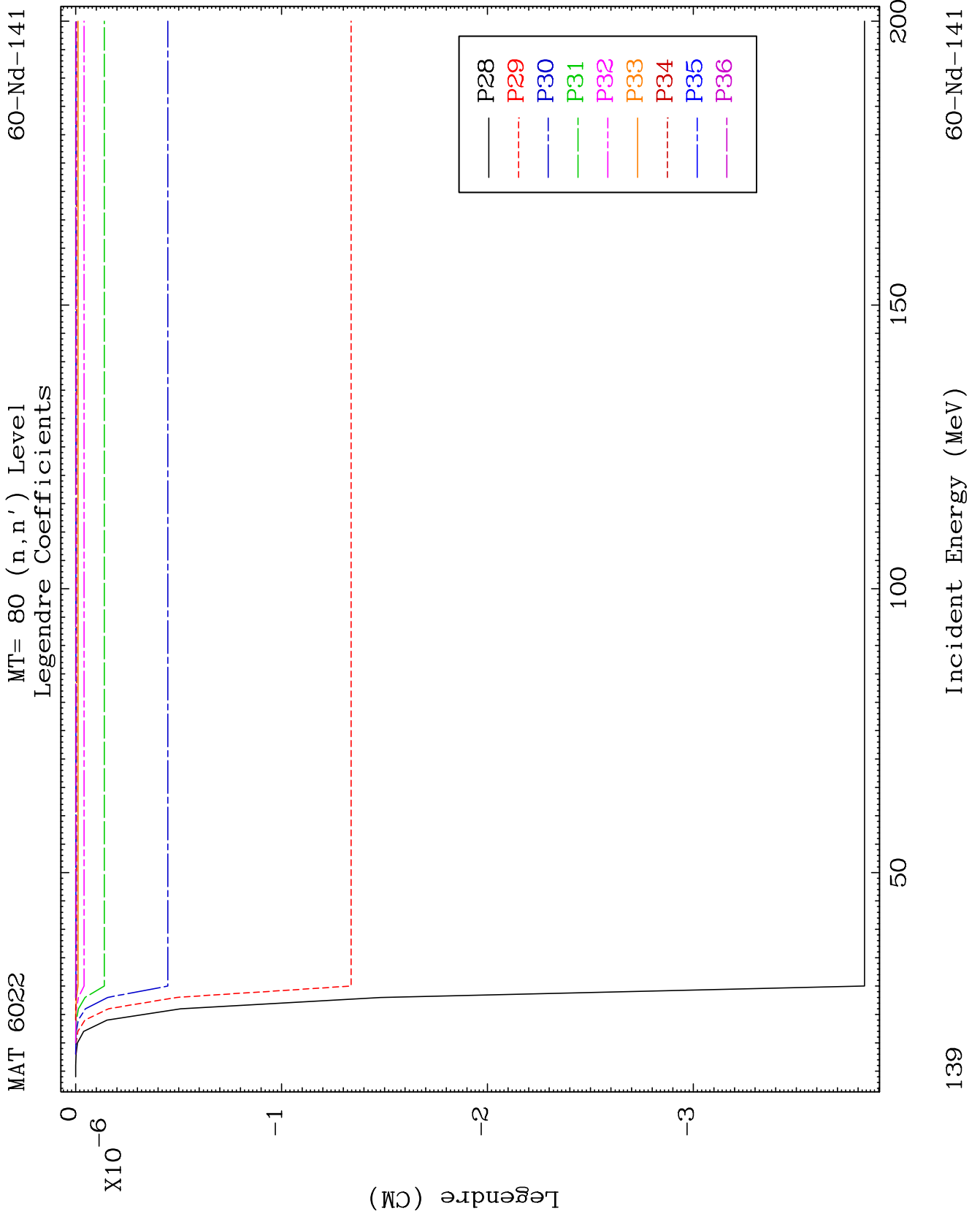
Incident Energy (MeV)

60-Nd-141





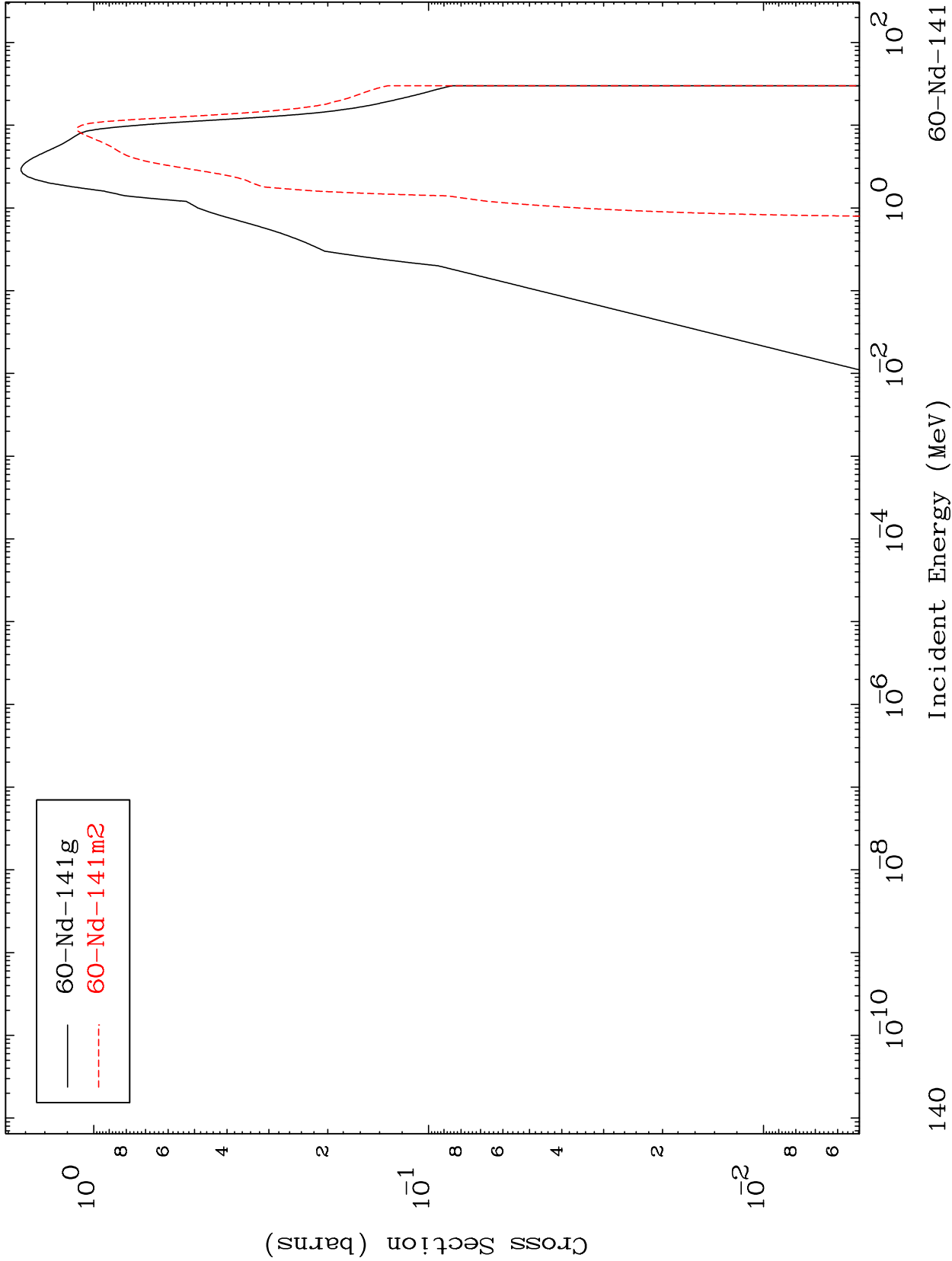




MAT 6022

Inelastic
Radionuclide Production Cross Section

⁶⁰Nd-141



140

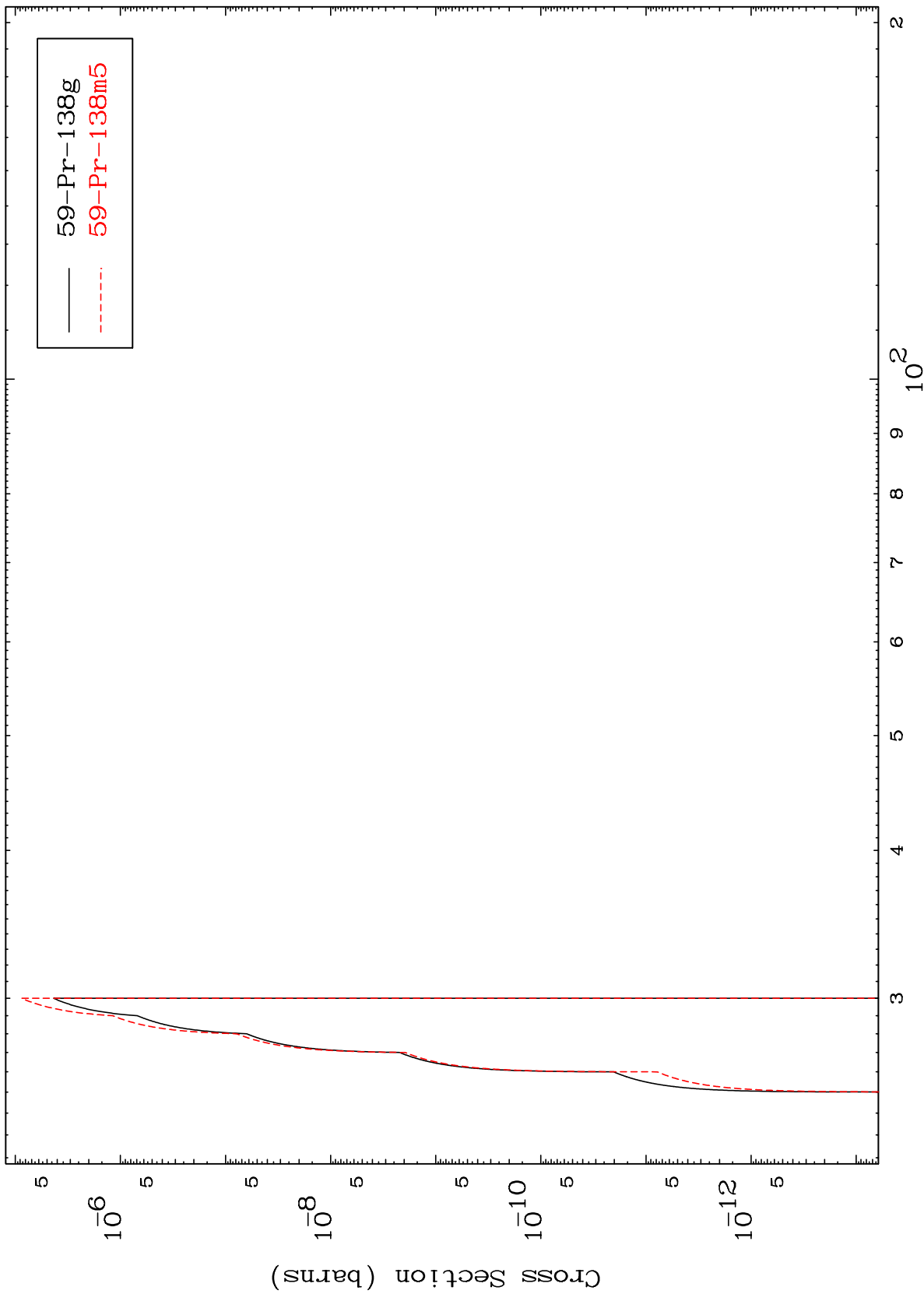
⁶⁰Nd-141

MAT 6022

(n,2n) d

60-Nd-141

Radionuclide Production Cross Section



141

Incident Energy (MeV)

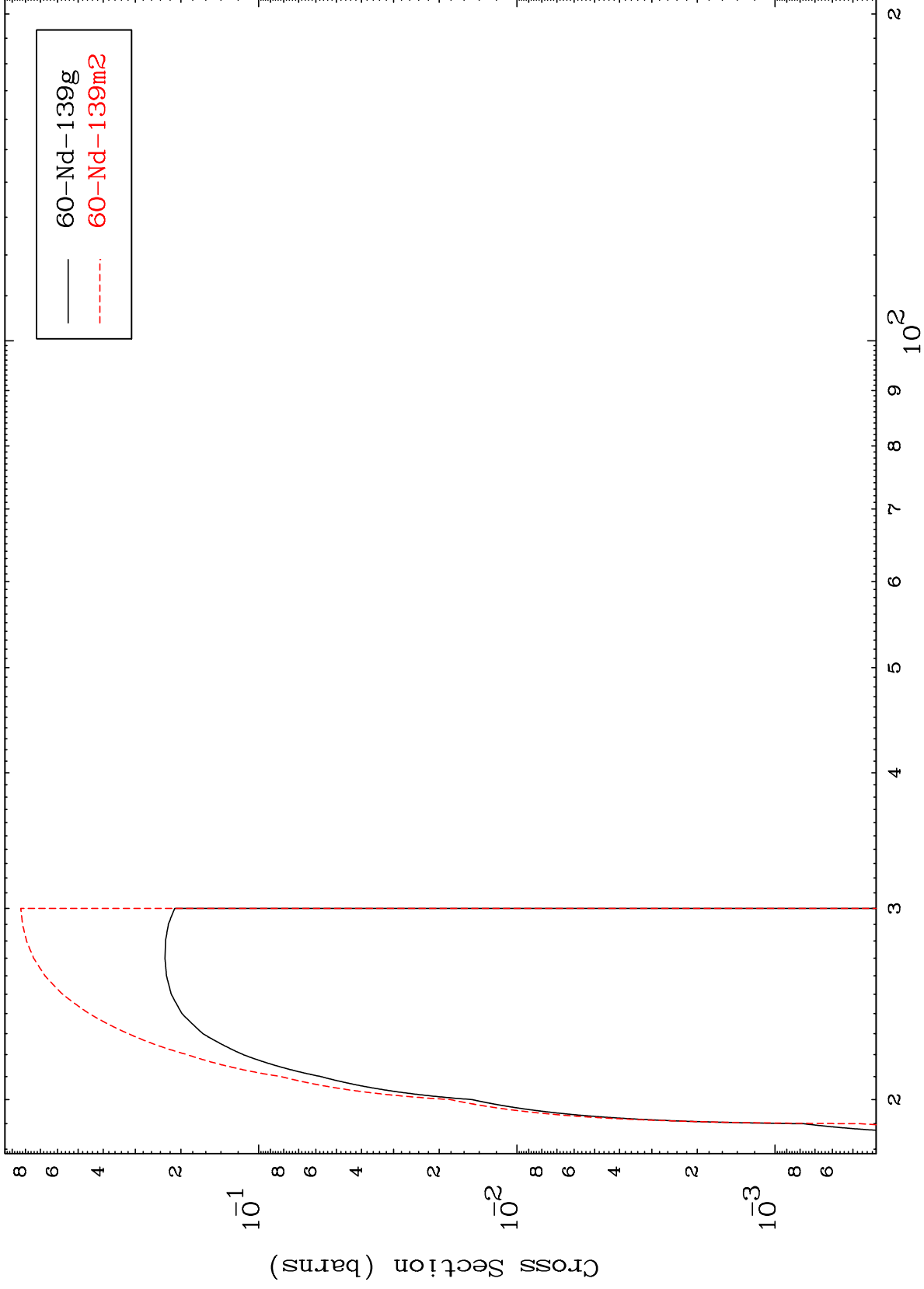
60-Nd-141

MAT 6022

(n,3n)

60-Nd-141

Radionuclide Production Cross Section



142

Incident Energy (MeV)

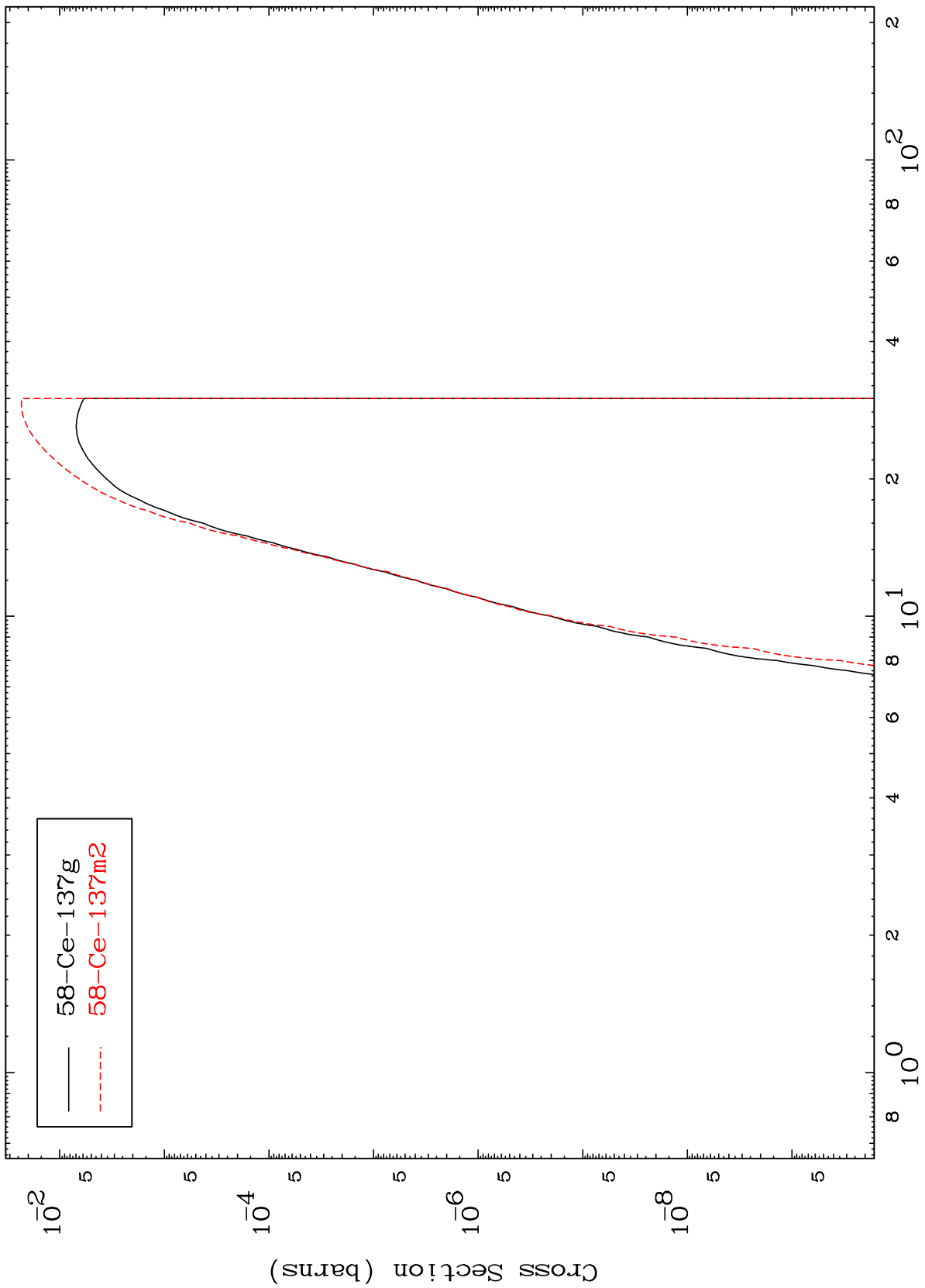
60-Nd-141

MAT 6022

$(n, n') \alpha$

60-Nd-141

Radionuclide Production Cross Section



— 58-Ce-137g
- - - 58-Ce-137m2

143

Incident Energy (MeV)

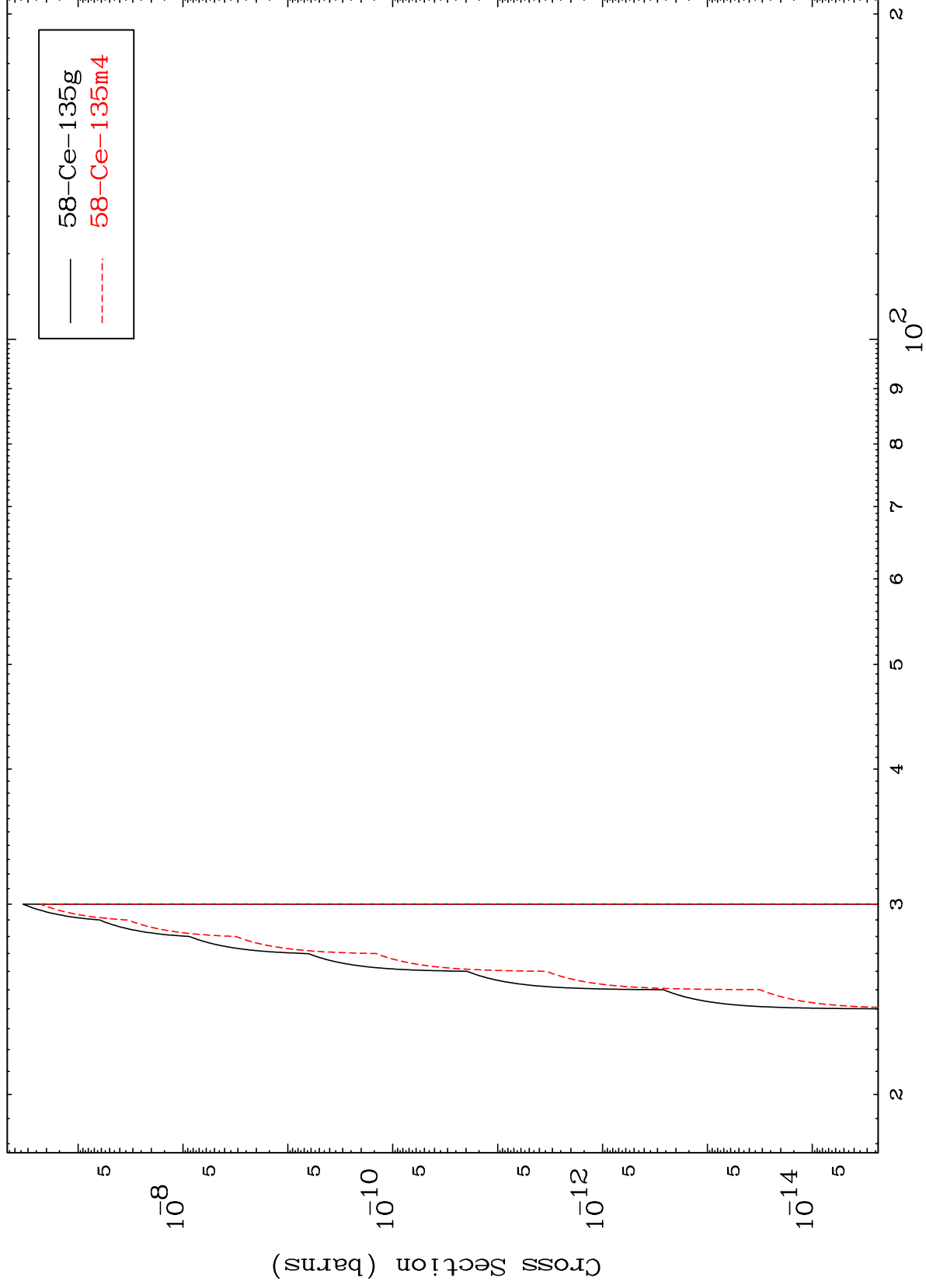
60-Nd-141

MAT 6022

$(n,3n) \alpha$

$^{60}\text{Nd-141}$

Radionuclide Production Cross Section



144

Incident Energy (MeV)

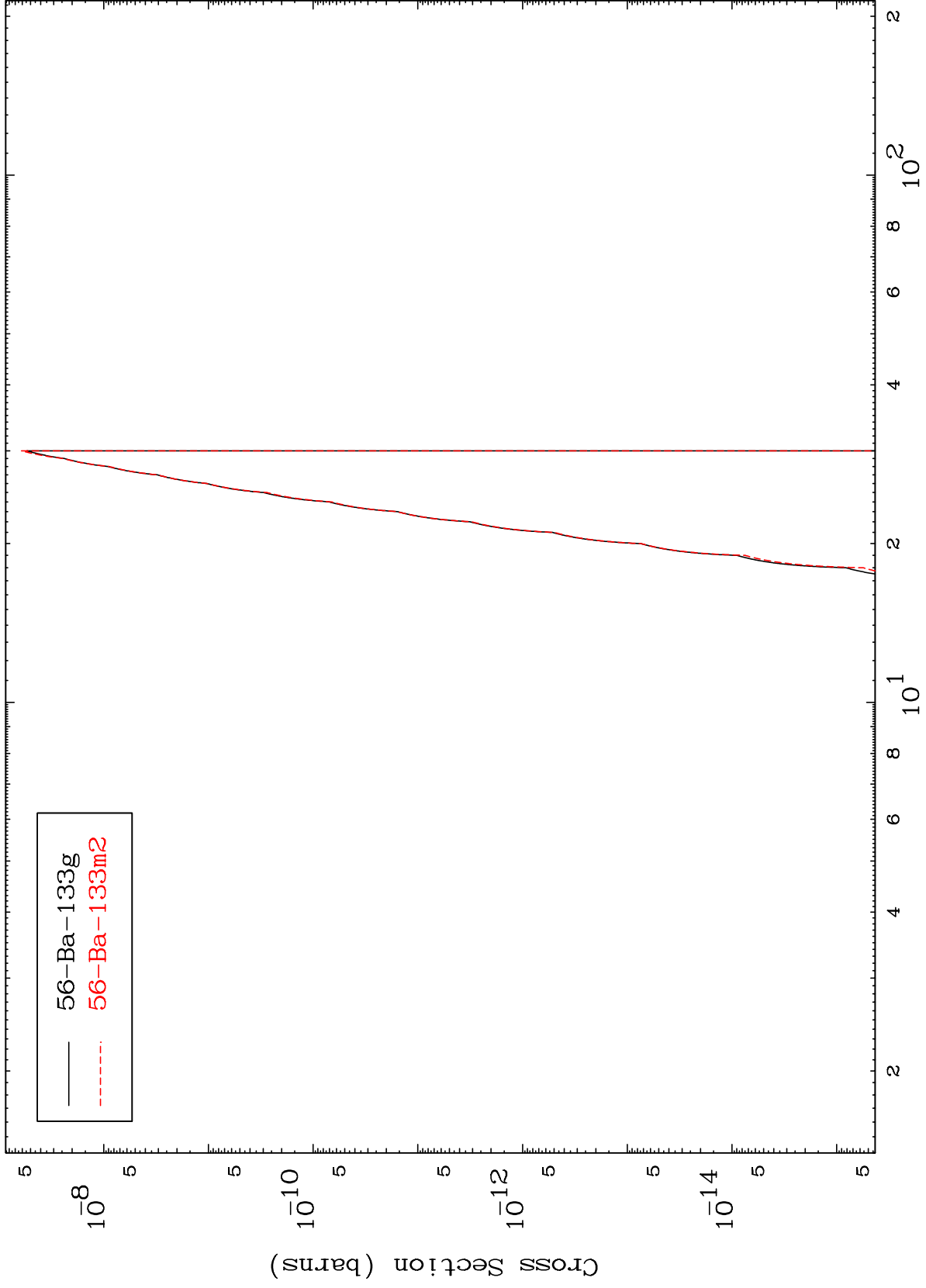
$^{60}\text{Nd-141}$

MAT 6022

(n,n') 2 α

60-Nd-141

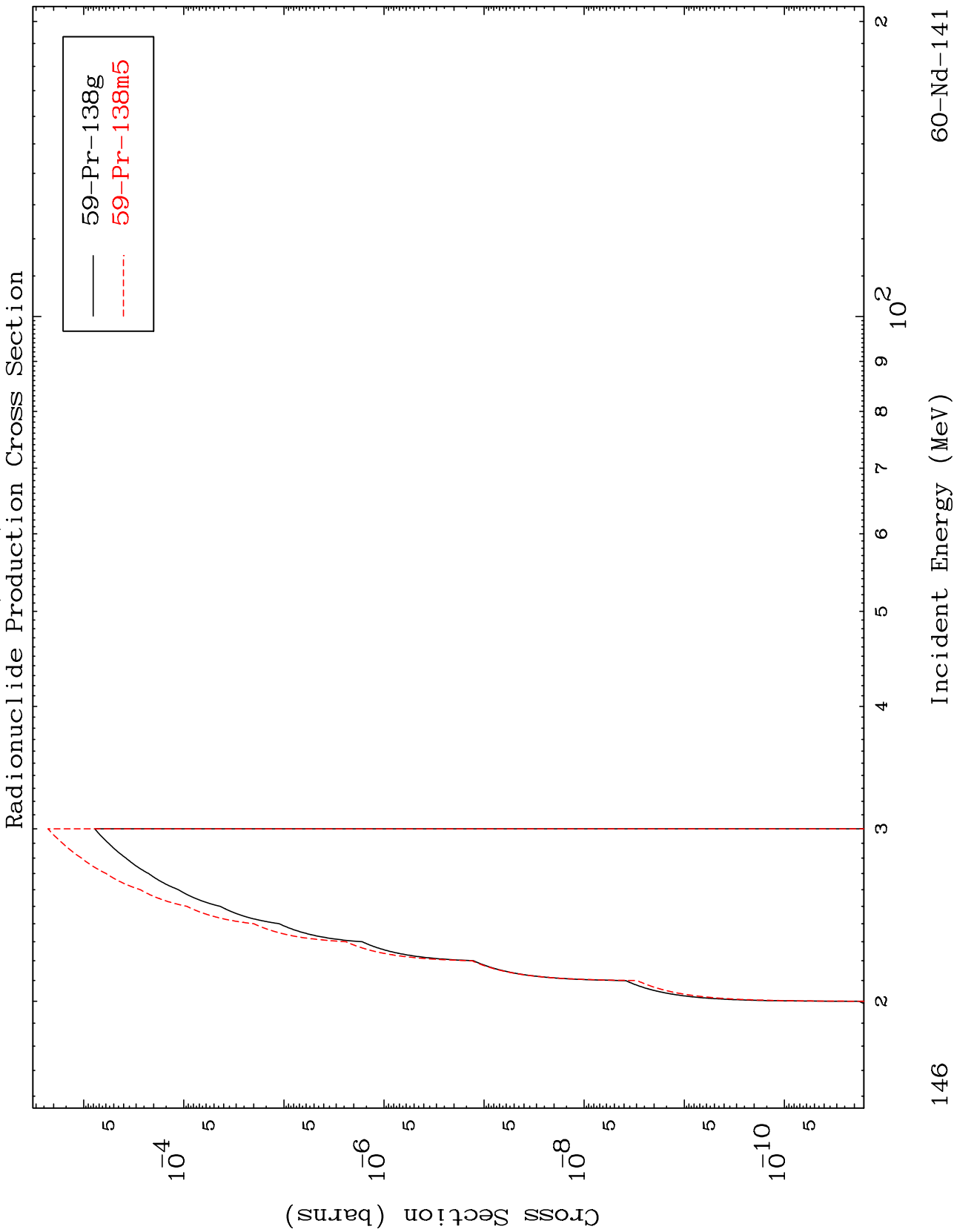
Radionuclide Production Cross Section



145

Incident Energy (MeV)

60-Nd-141

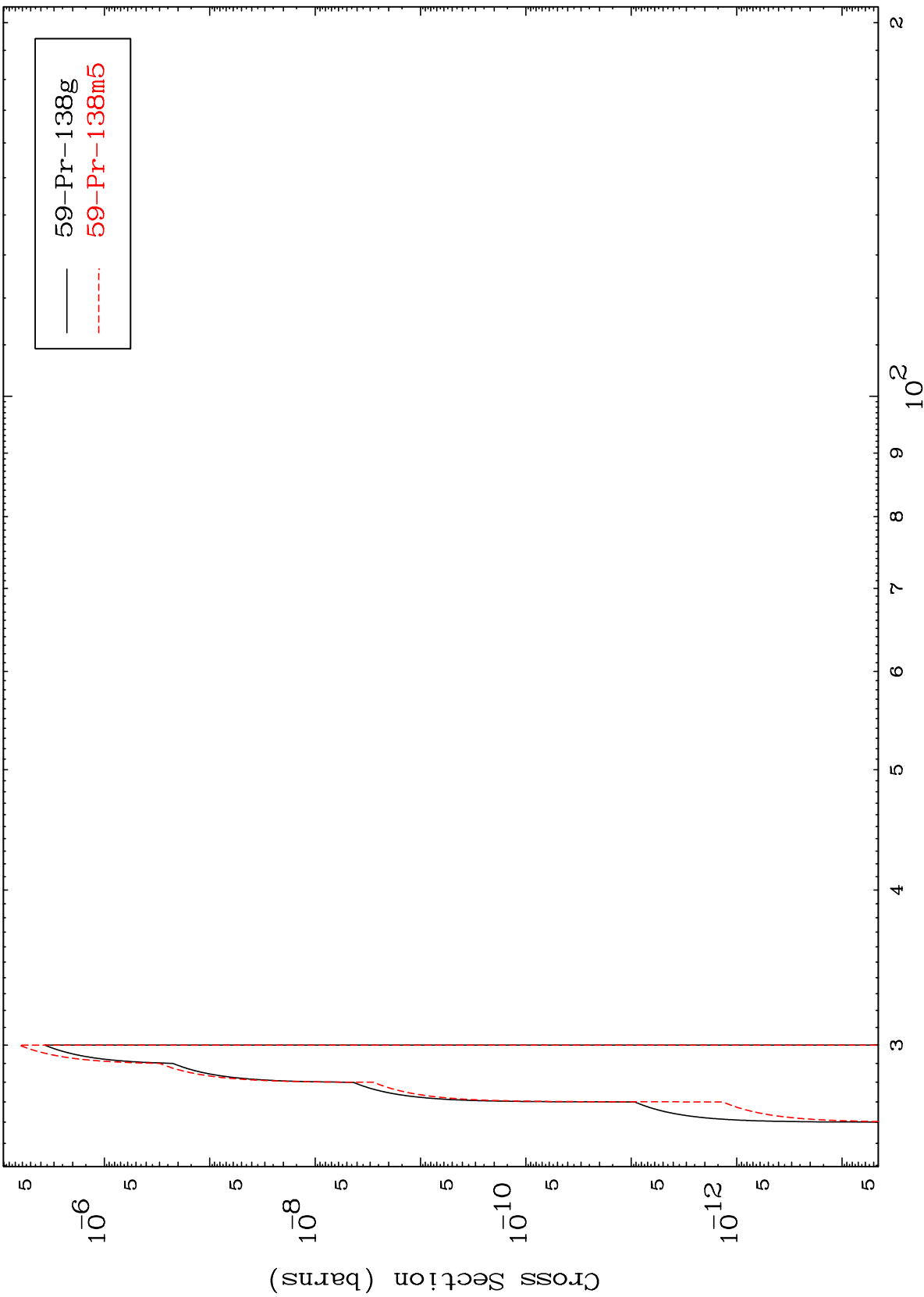


MAT 6022

(n,3n) p

60-Nd-141

Radionuclide Production Cross Section



147

Incident Energy (MeV)

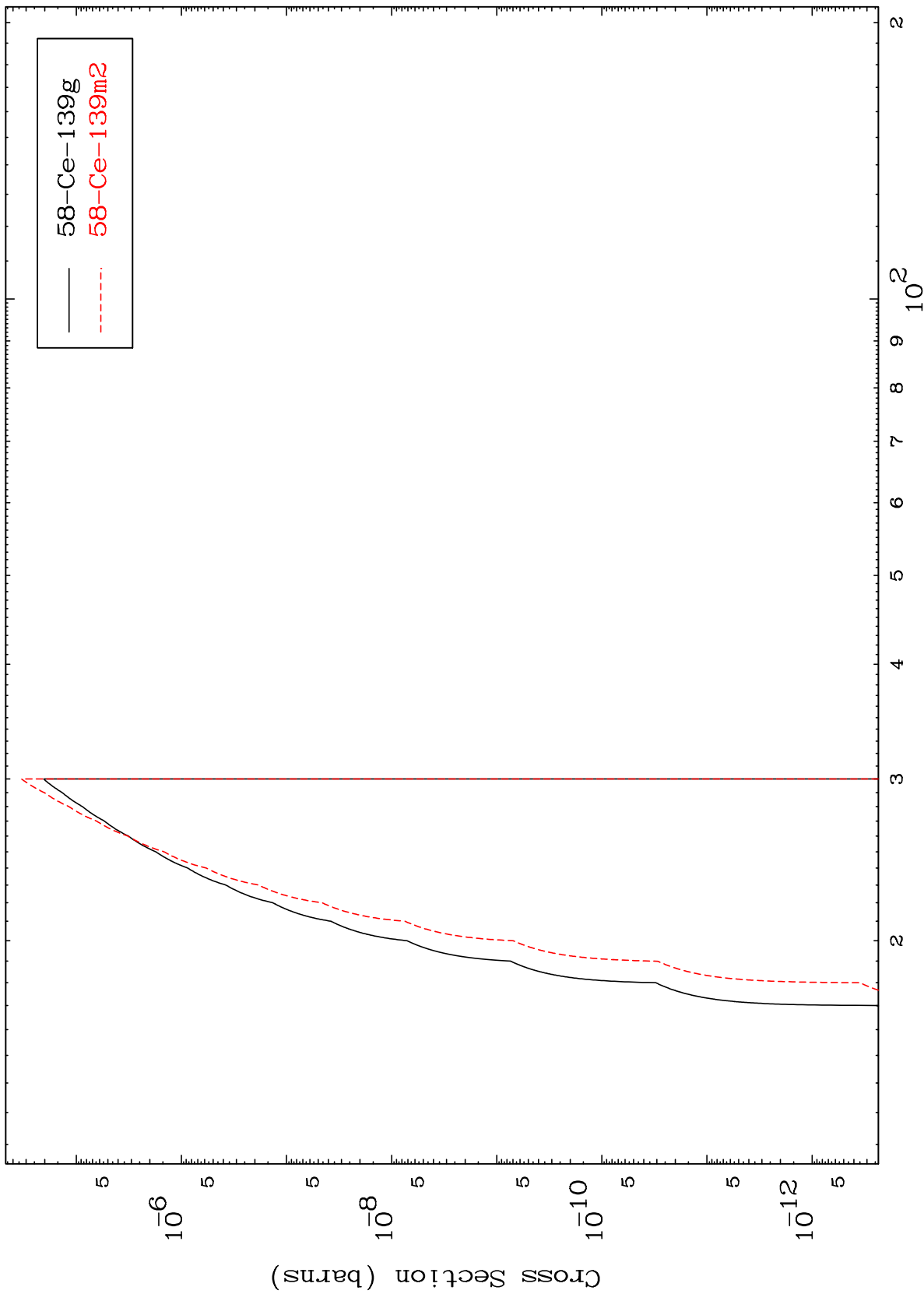
60-Nd-141

MAT 6022

(n,2n) p

60-Nd-141

Radionuclide Production Cross Section



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

148

Incident Energy (MeV)

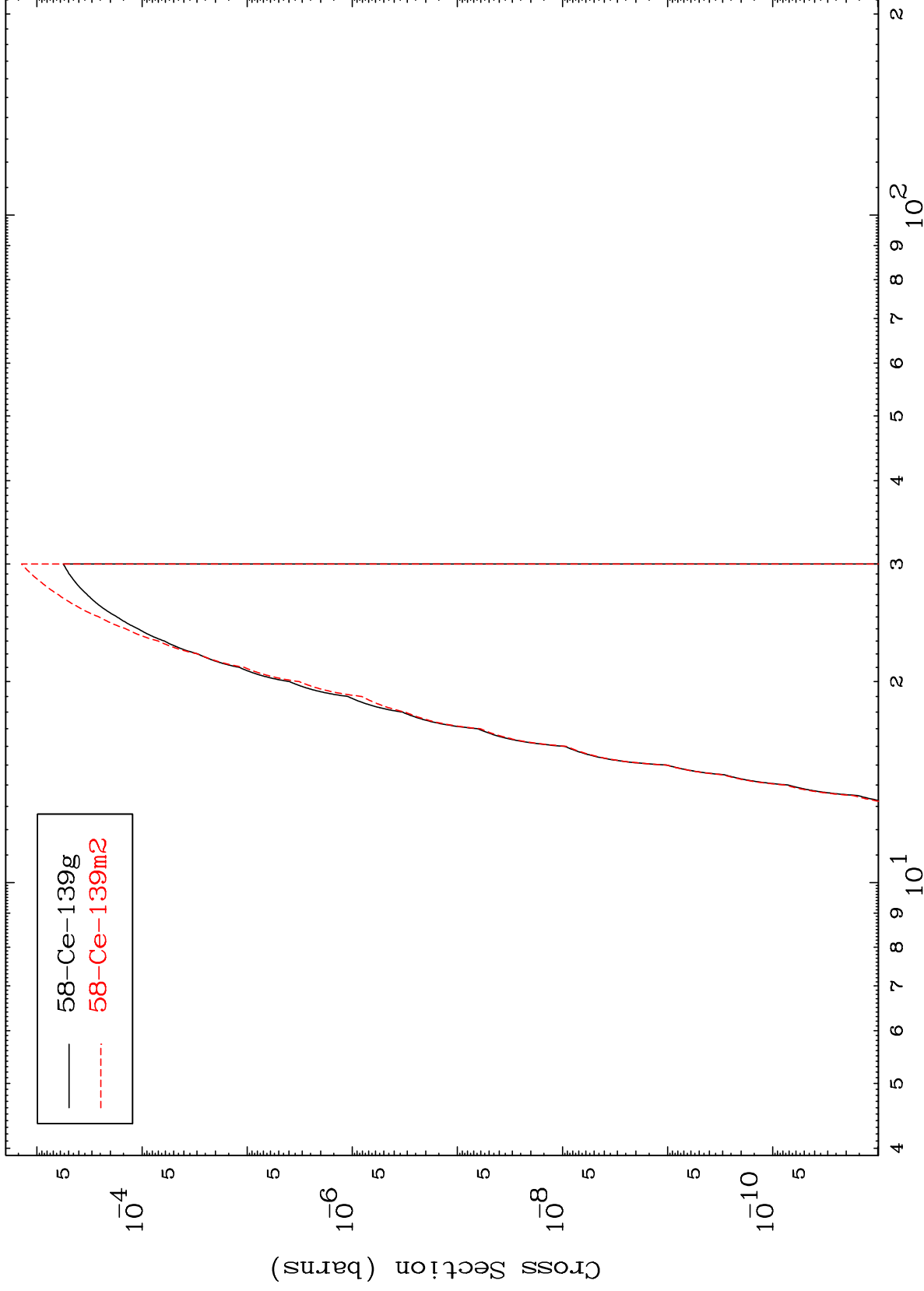
60-Nd-141

MAT 6022

(n,He-3)

60-Nd-141

Radionuclide Production Cross Section



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

149

Incident Energy (MeV)

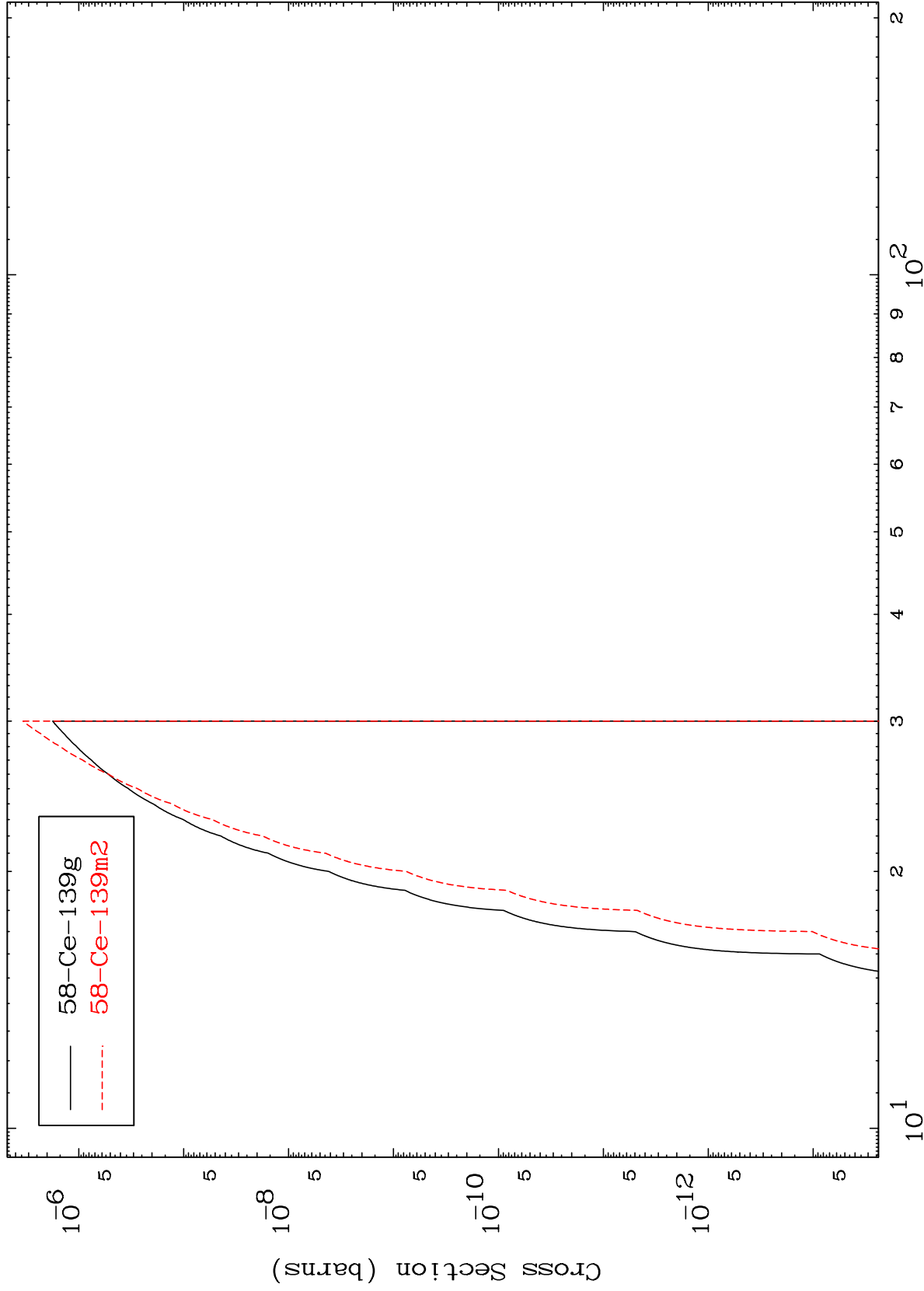
60-Nd-141

MAT 6022

(n,p) d

⁶⁰Nd-141

Radionuclide Production Cross Section



10¹

Incident Energy (MeV)

⁶⁰Nd-141