

Program EVALPLOT
(Version 2021-1)

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

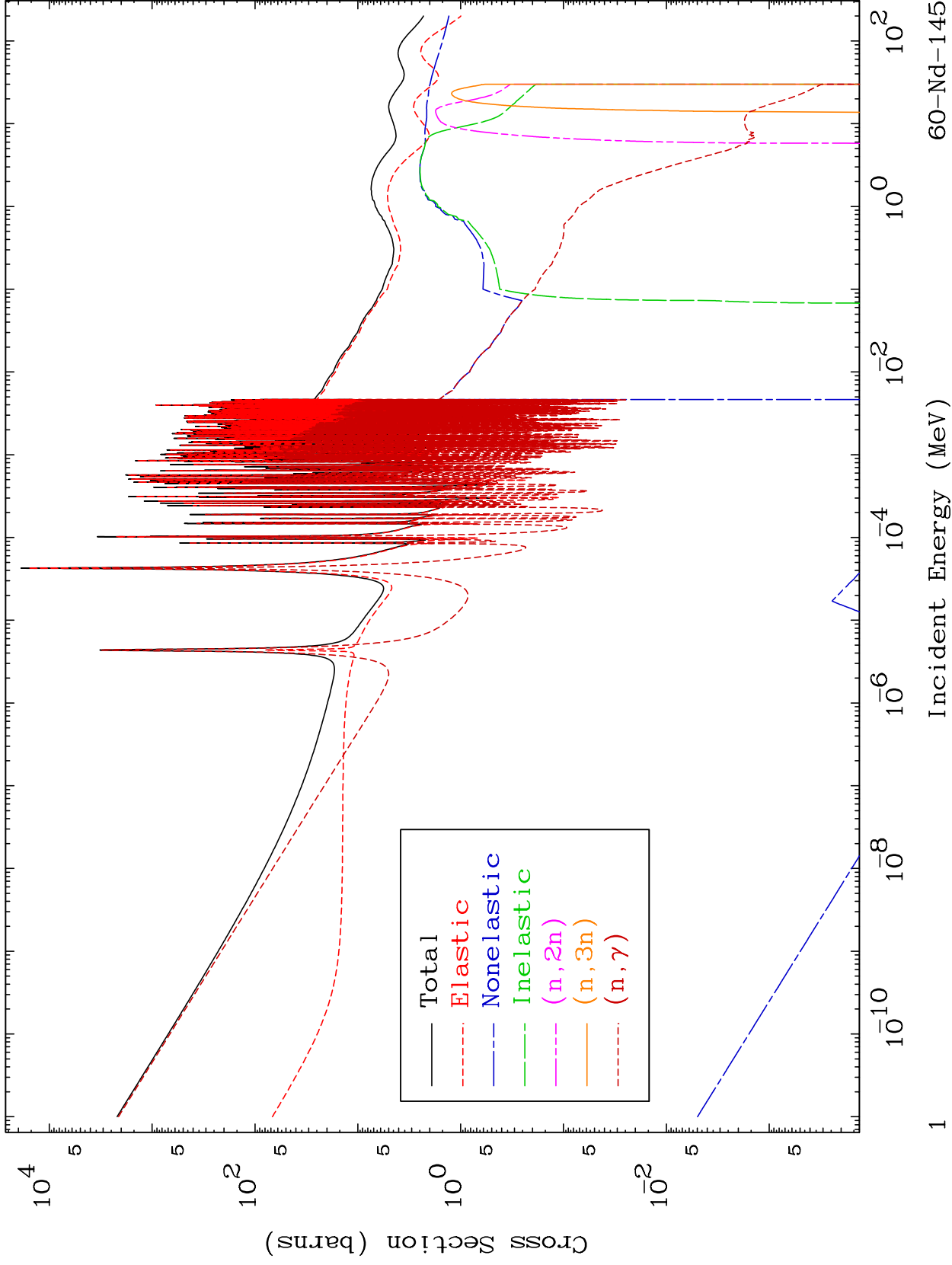
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6034

Neutron Major
293 Kelvin Cross Sections

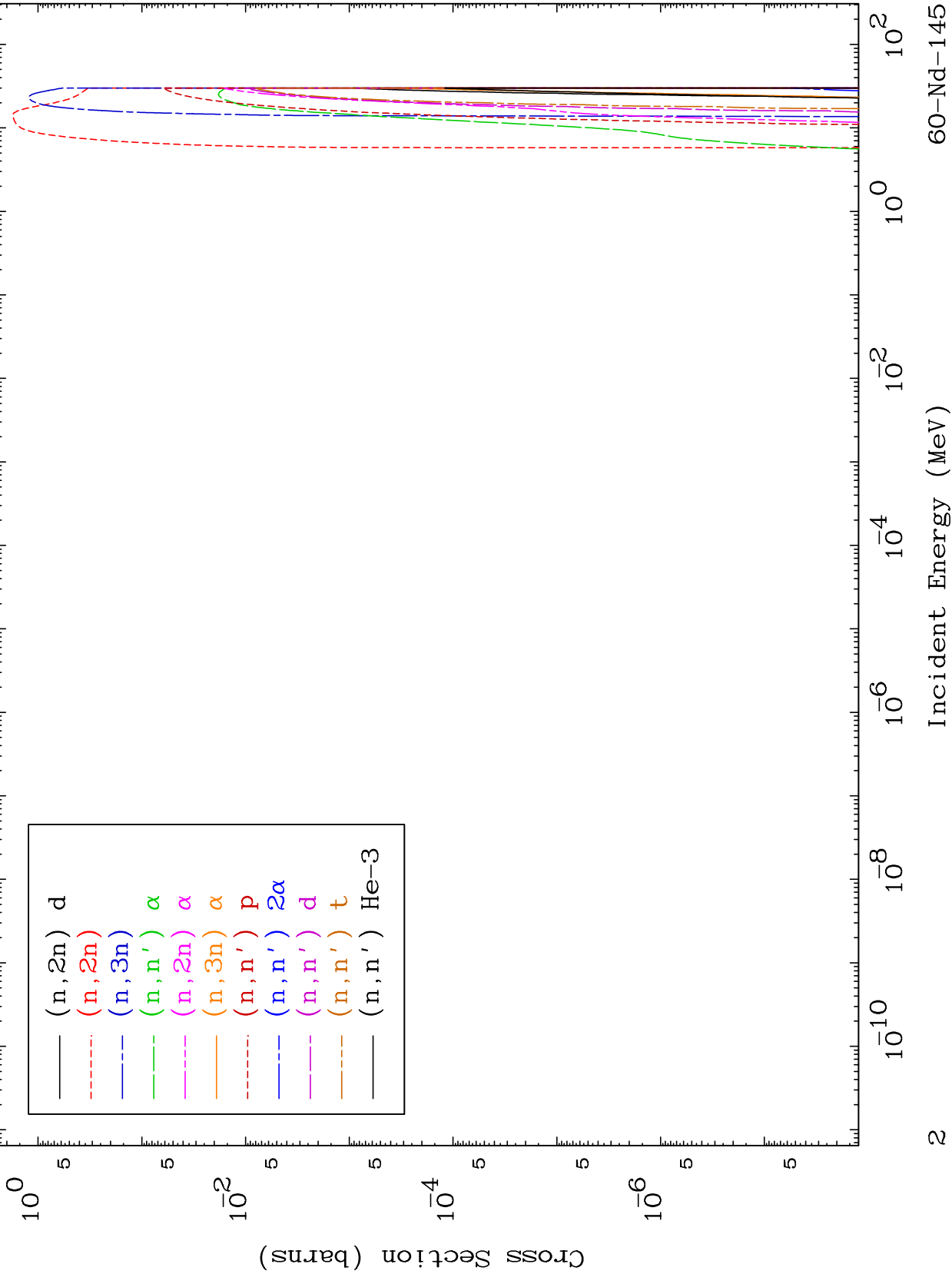
60-Nd-145



MAT 6034

Neutron Absorption
293 Kelvin Cross Sections

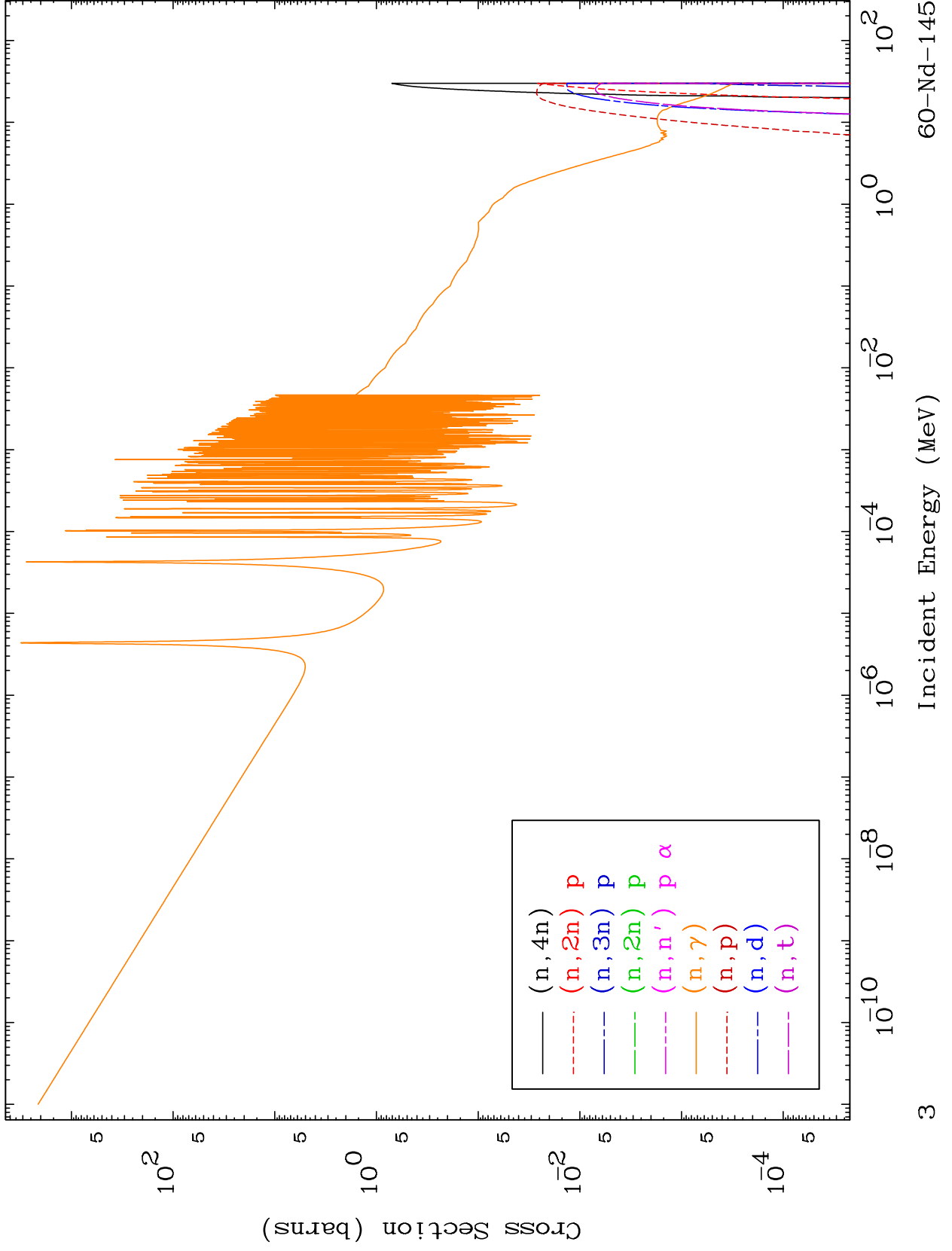
60-Nd-145



MAT 6034

Neutron Absorption
293 Kelvin Cross Sections

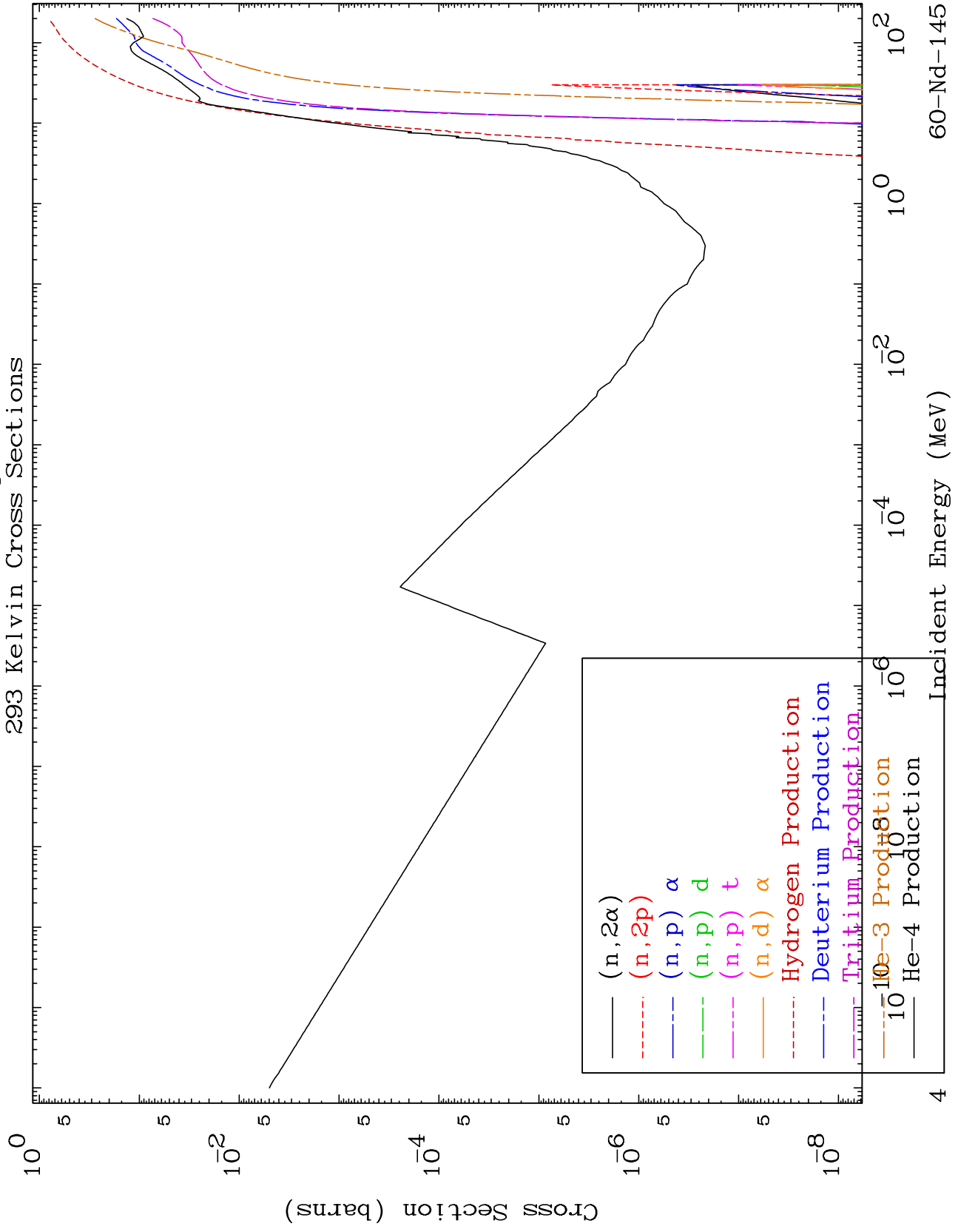
60-Nd-145



MAT 6034

Neutron Absorption
293 Kelvin Cross Sections

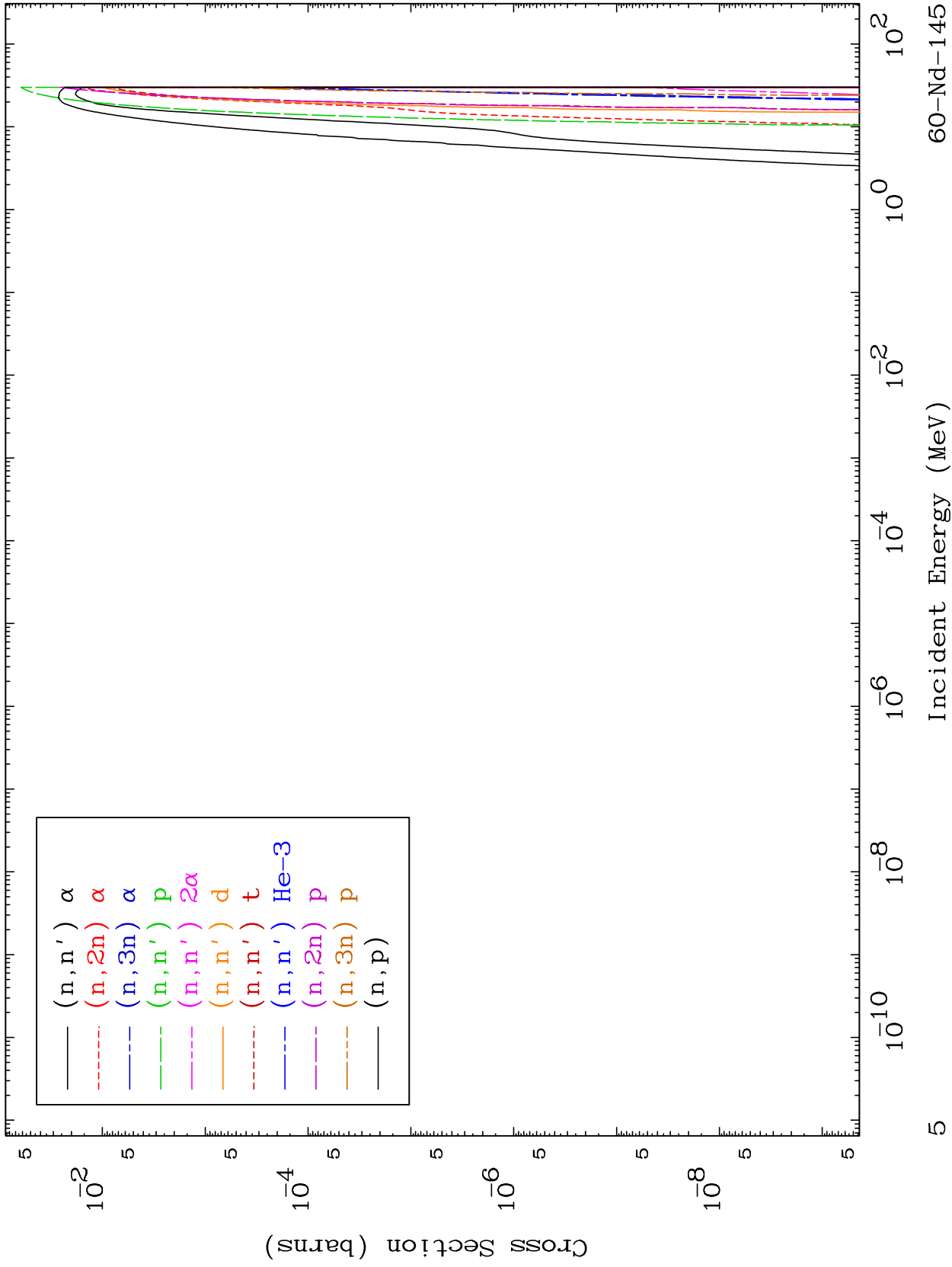
60-Nd-145



MAT 6034

Charged Particle
293 Kelvin Cross Sections

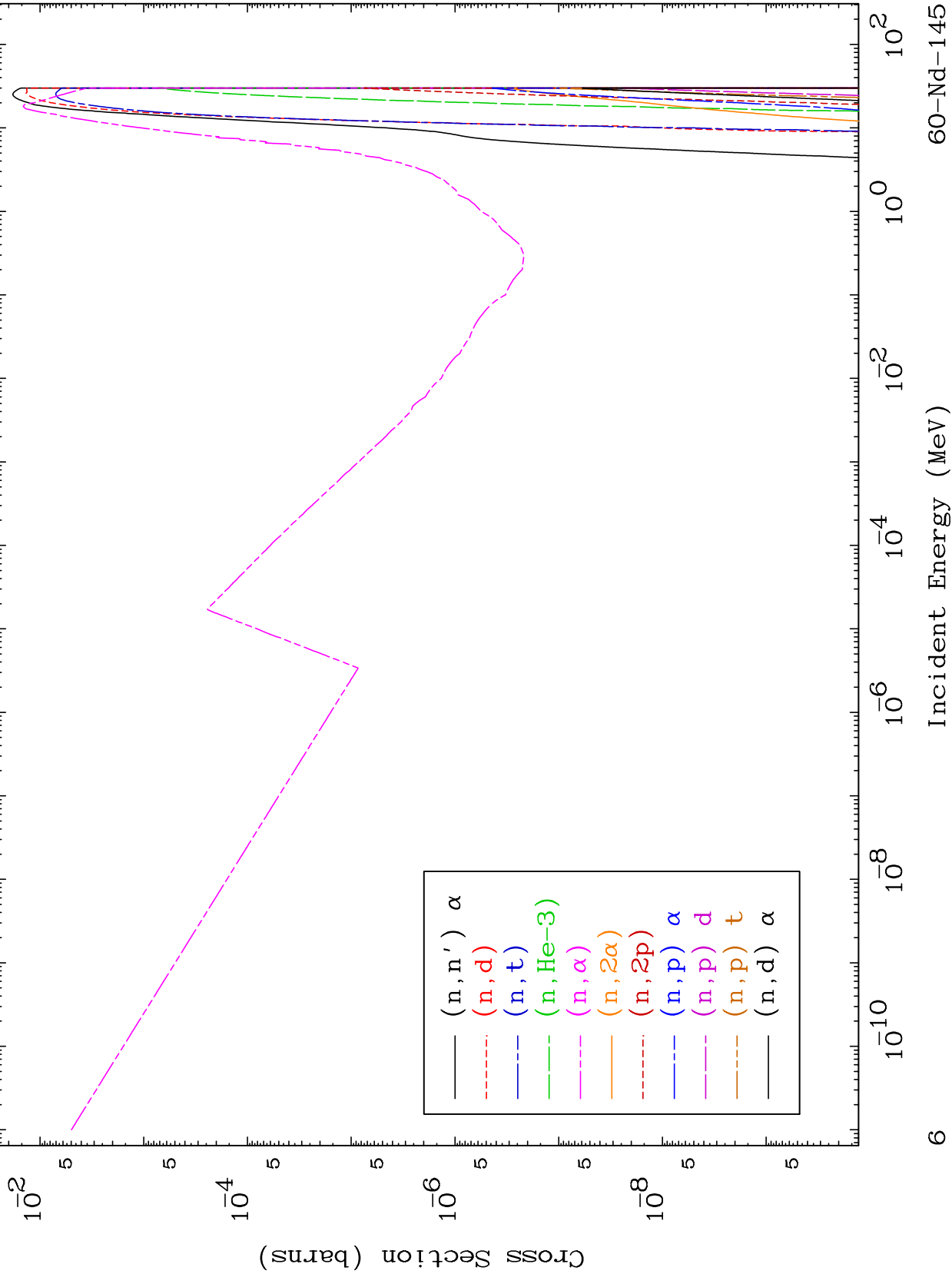
60-Nd-145

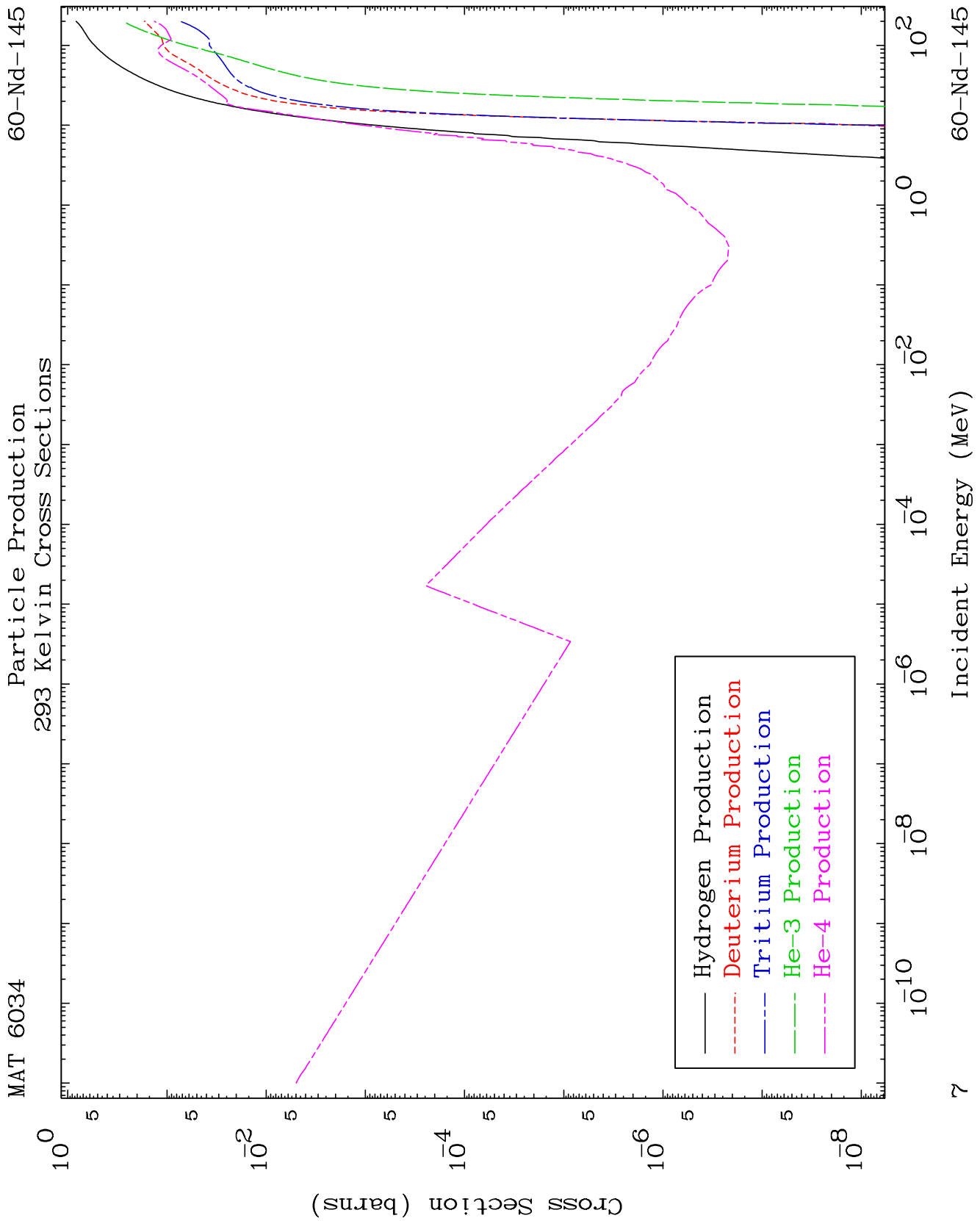


MAT 6034

Charged Particle
293 Kelvin Cross Sections

60-Nd-145



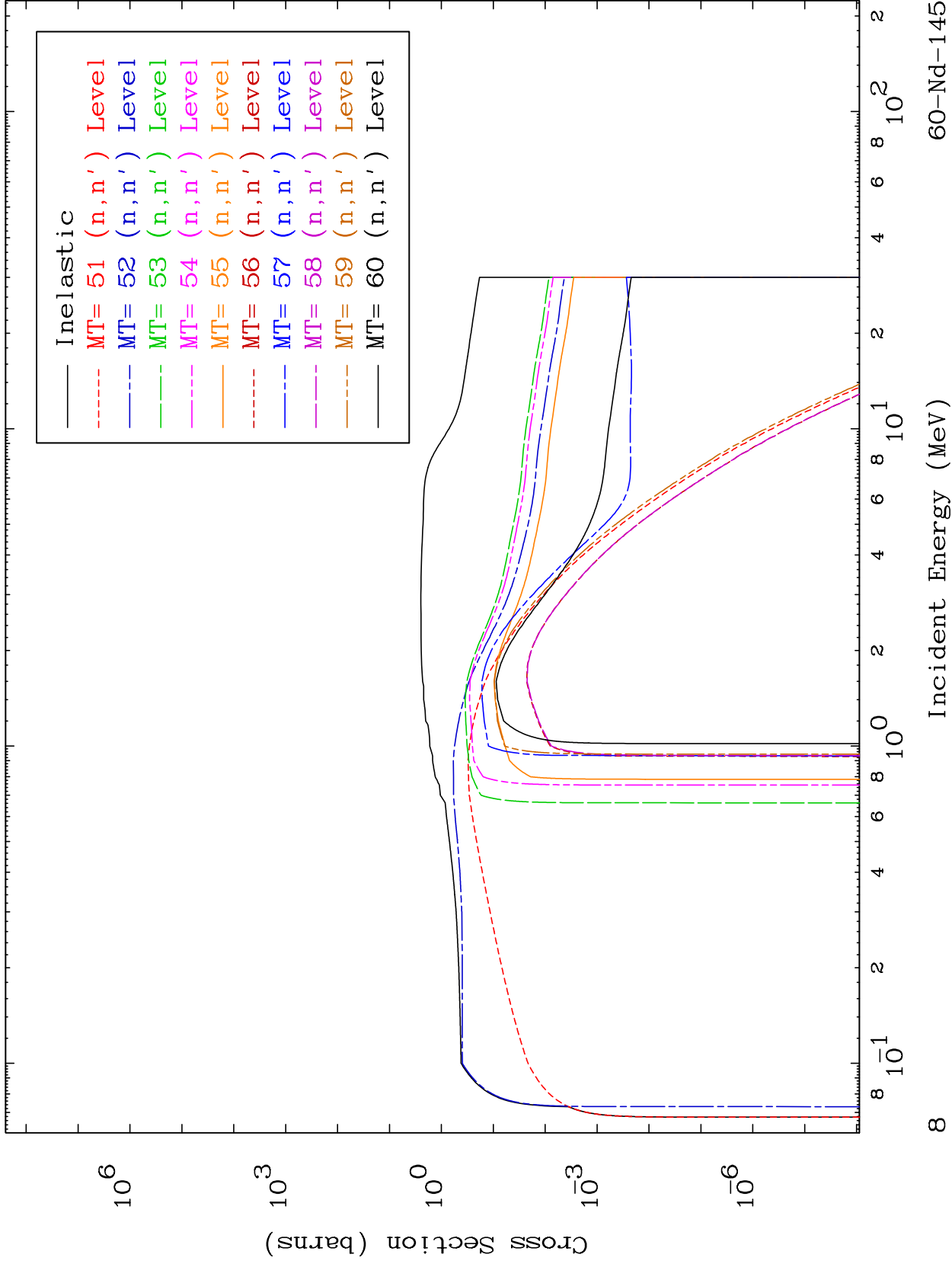


MAT 6034

(n,n') Levels

60-Nd-145

293 Kelvin Cross Sections



8

Incident Energy (MeV)

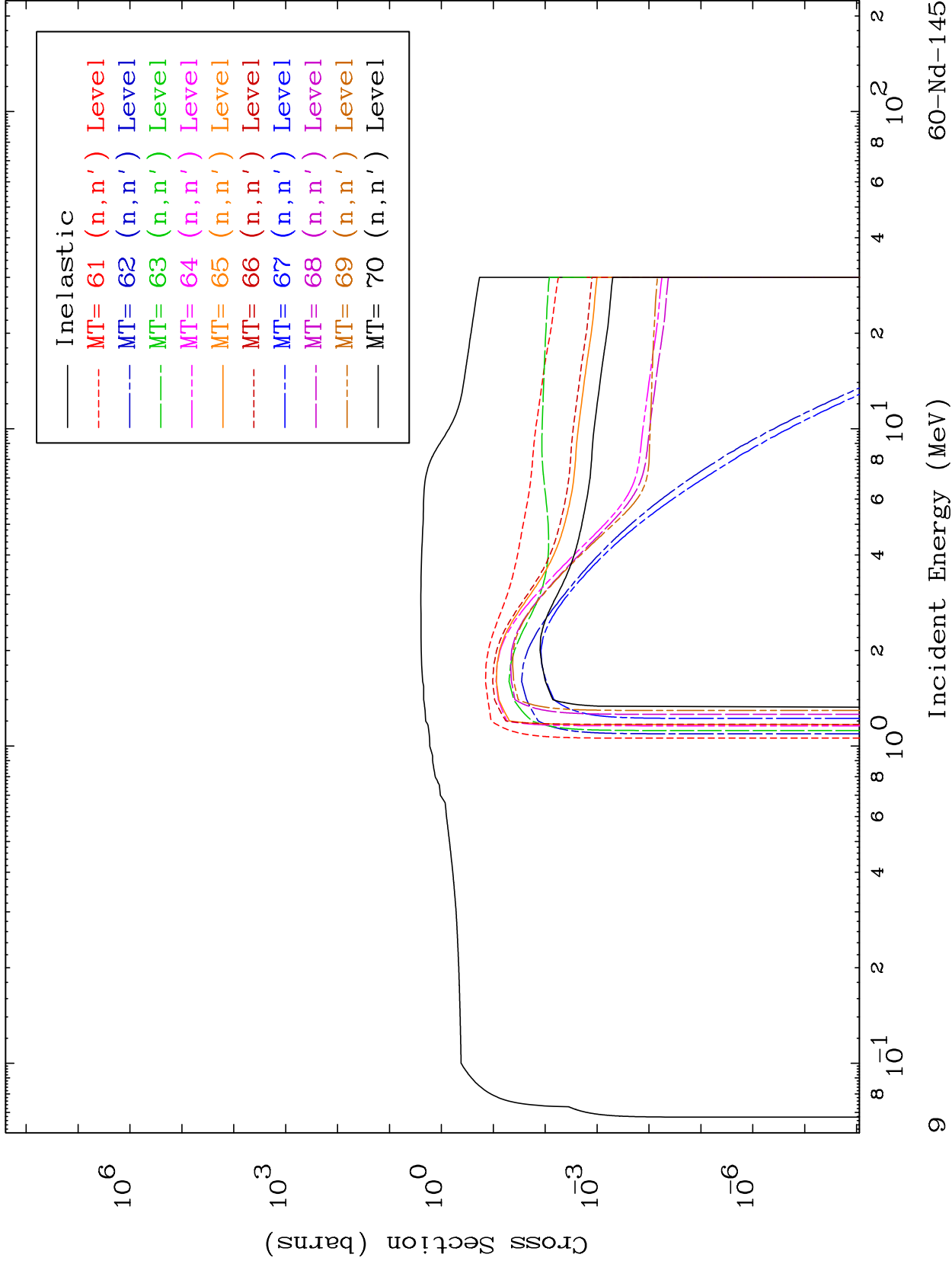
60-Nd-145

MAT 6034

(n,n') Levels

60-Nd-145

293 Kelvin Cross Sections

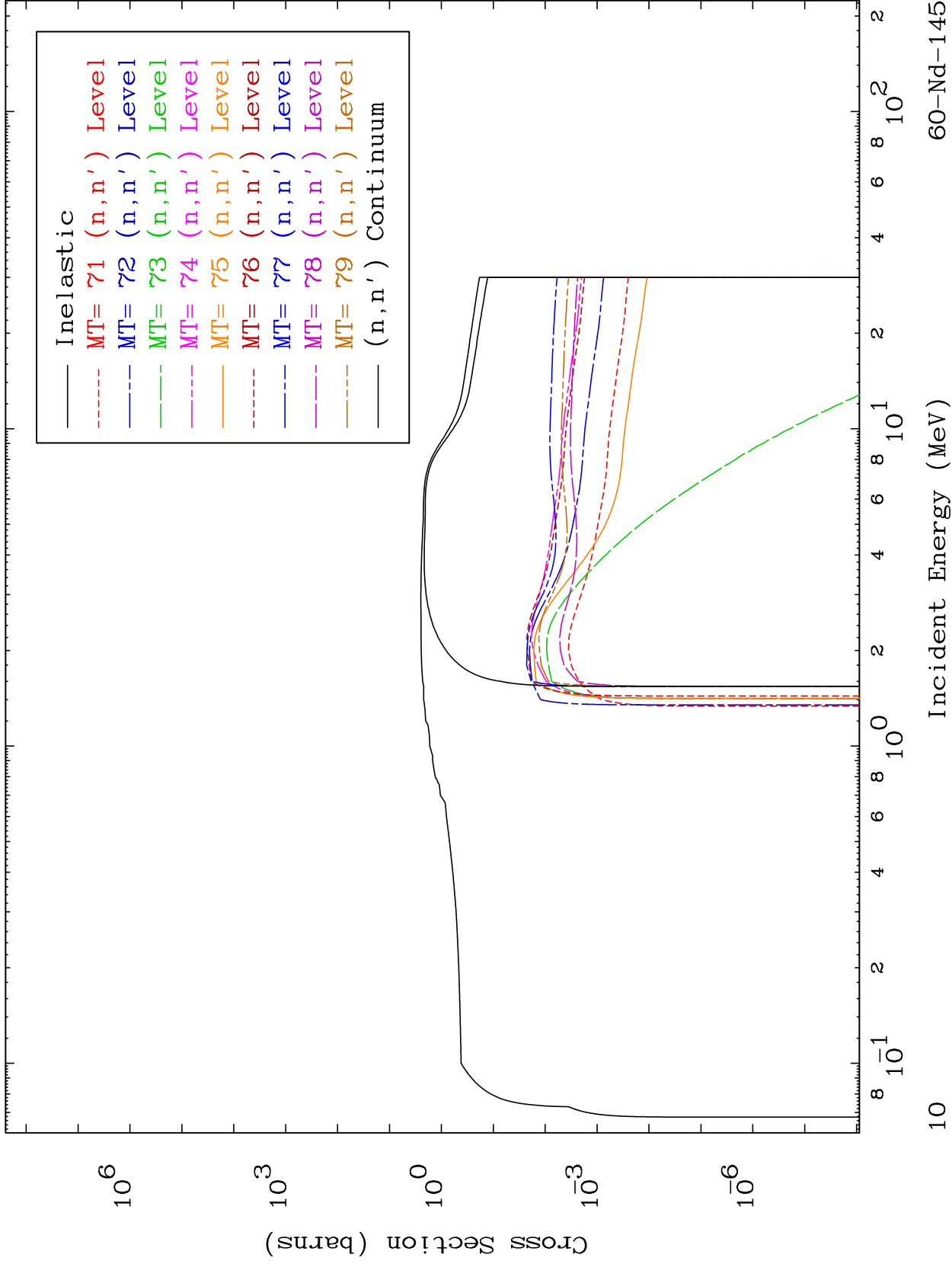


MAT 6034

(n,n') Levels

293 Kelvin Cross Sections

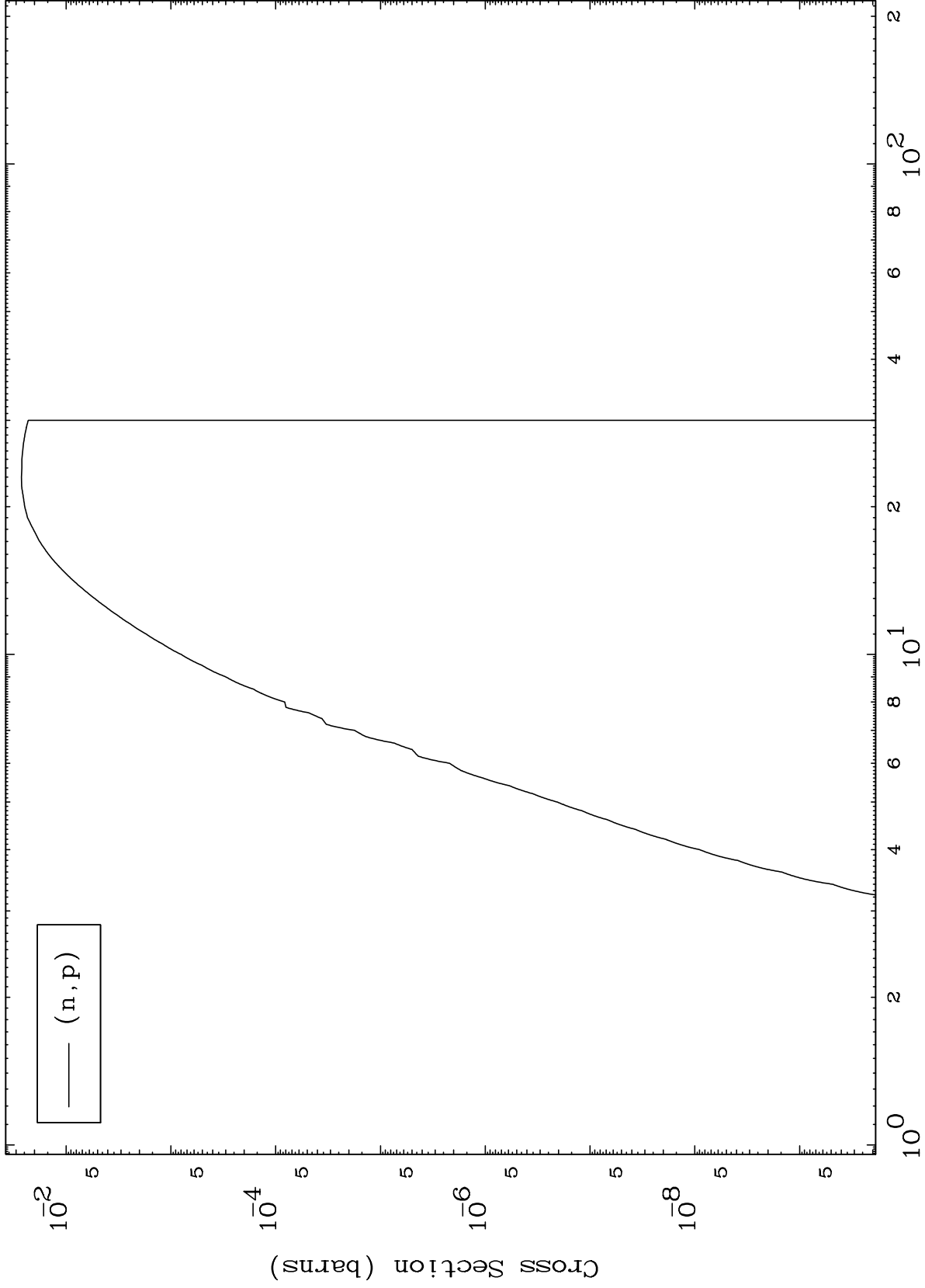
60-Nd-145



MAT 6034

(n,p) Levels
293 Kelvin Cross Sections

60-Nd-145



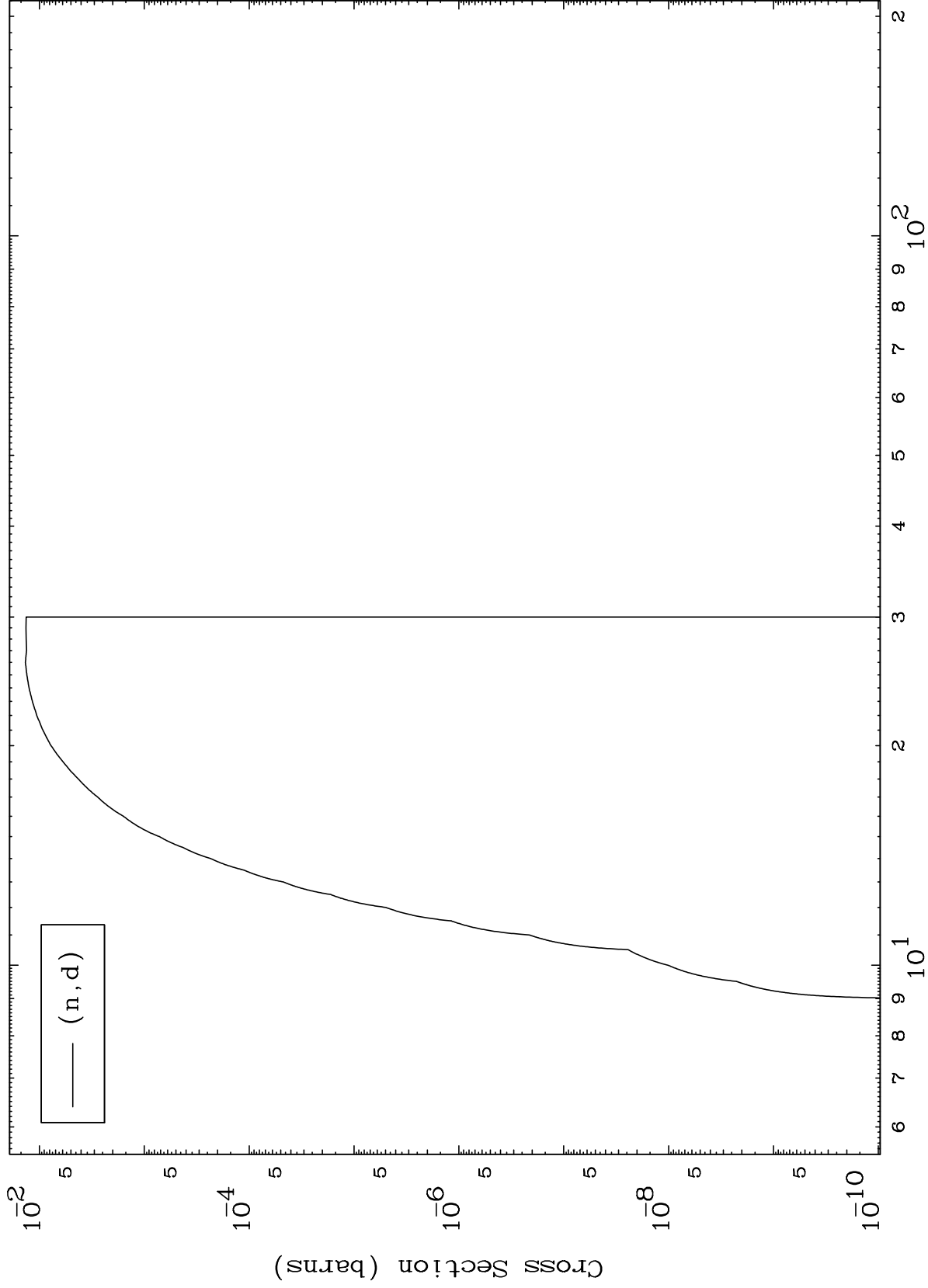
11

60-Nd-145

MAT 6034

(n,d) Levels
293 Kelvin Cross Sections

60-Nd-145



12

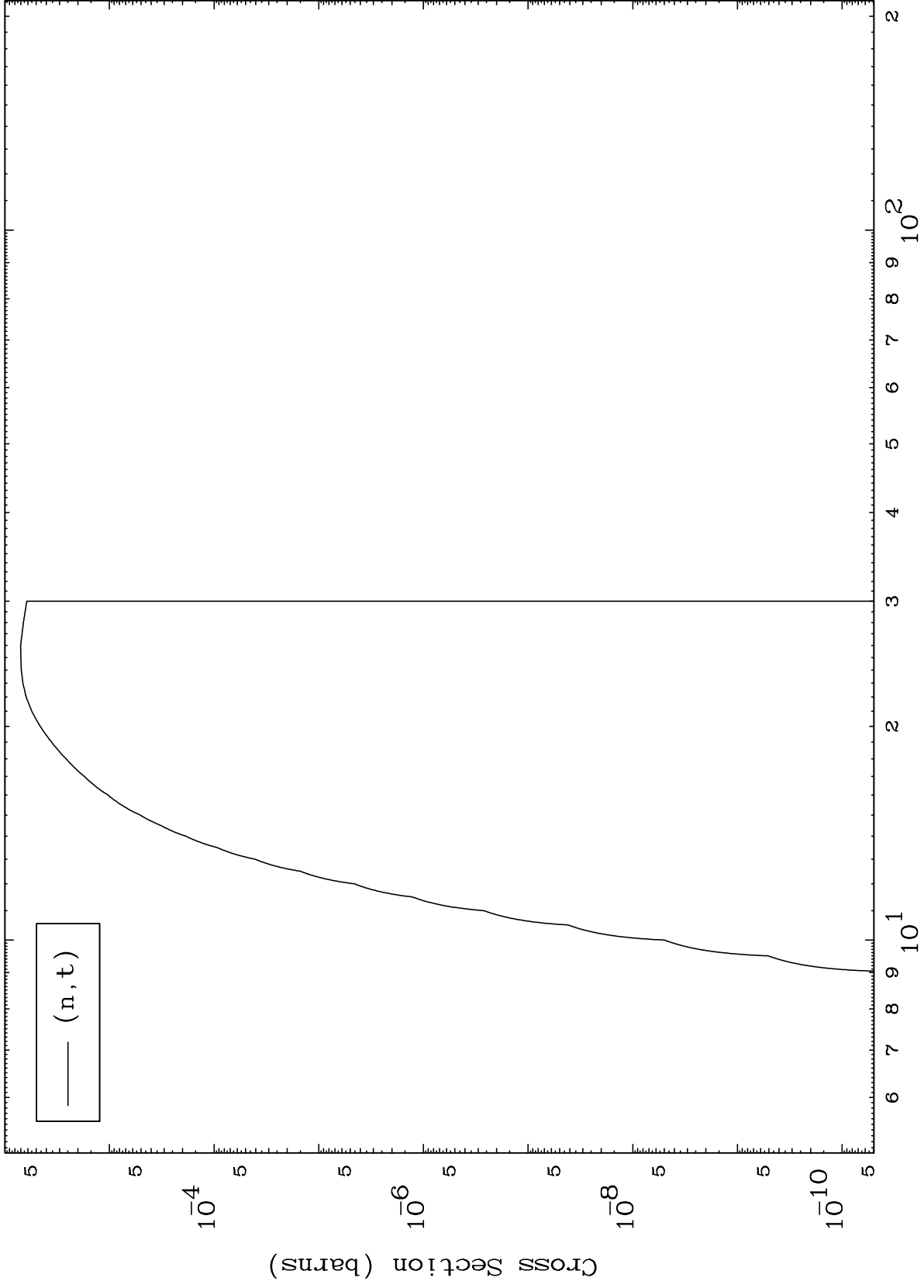
Incident Energy (MeV)

60-Nd-145

MAT 6034

(n,t) Levels
293 Kelvin Cross Sections

60-Nd-145



13

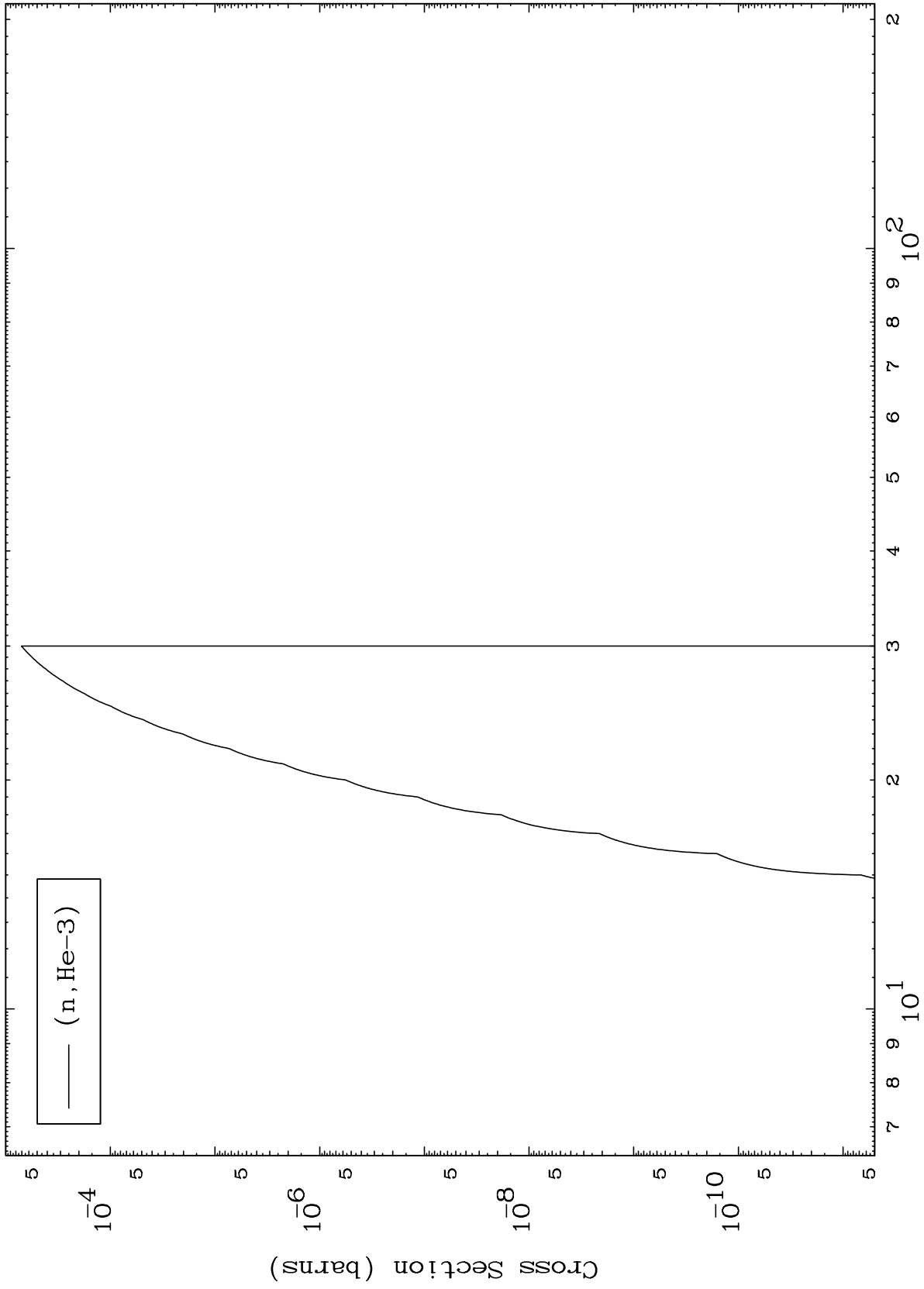
Incident Energy (MeV)

60-Nd-145

MAT 6034

(n,He3) Levels
293 Kelvin Cross Sections

60-Nd-145



14

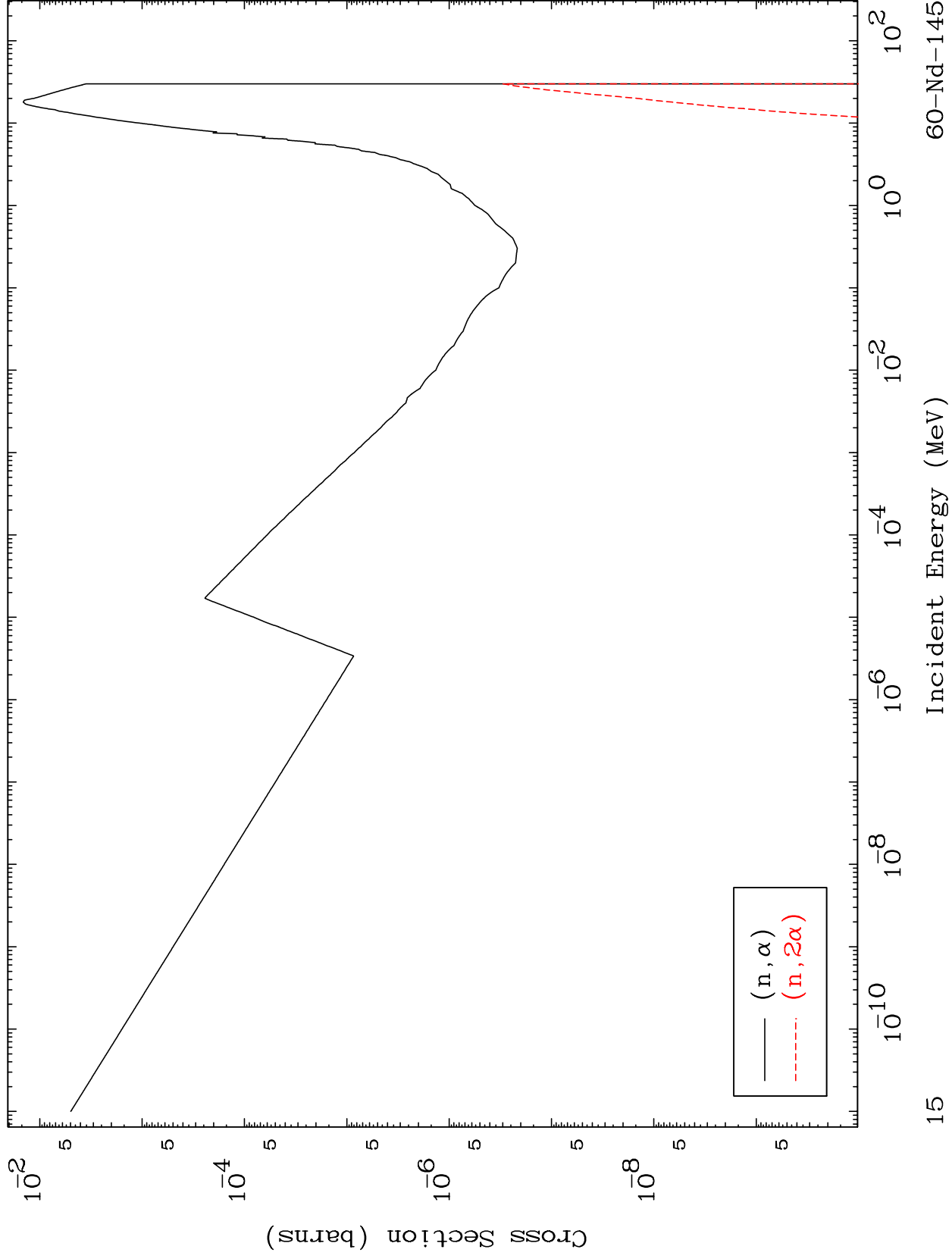
Incident Energy (MeV)

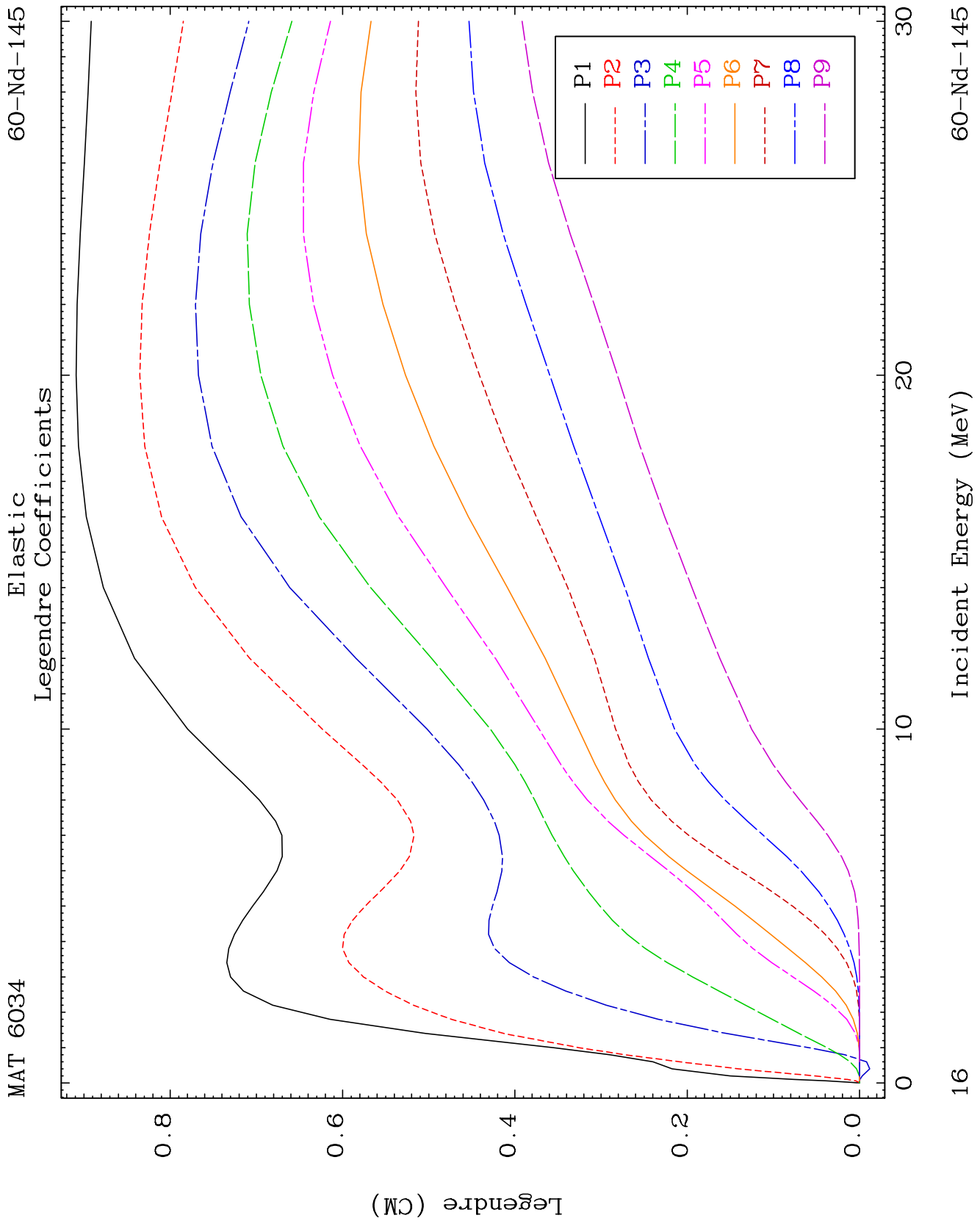
60-Nd-145

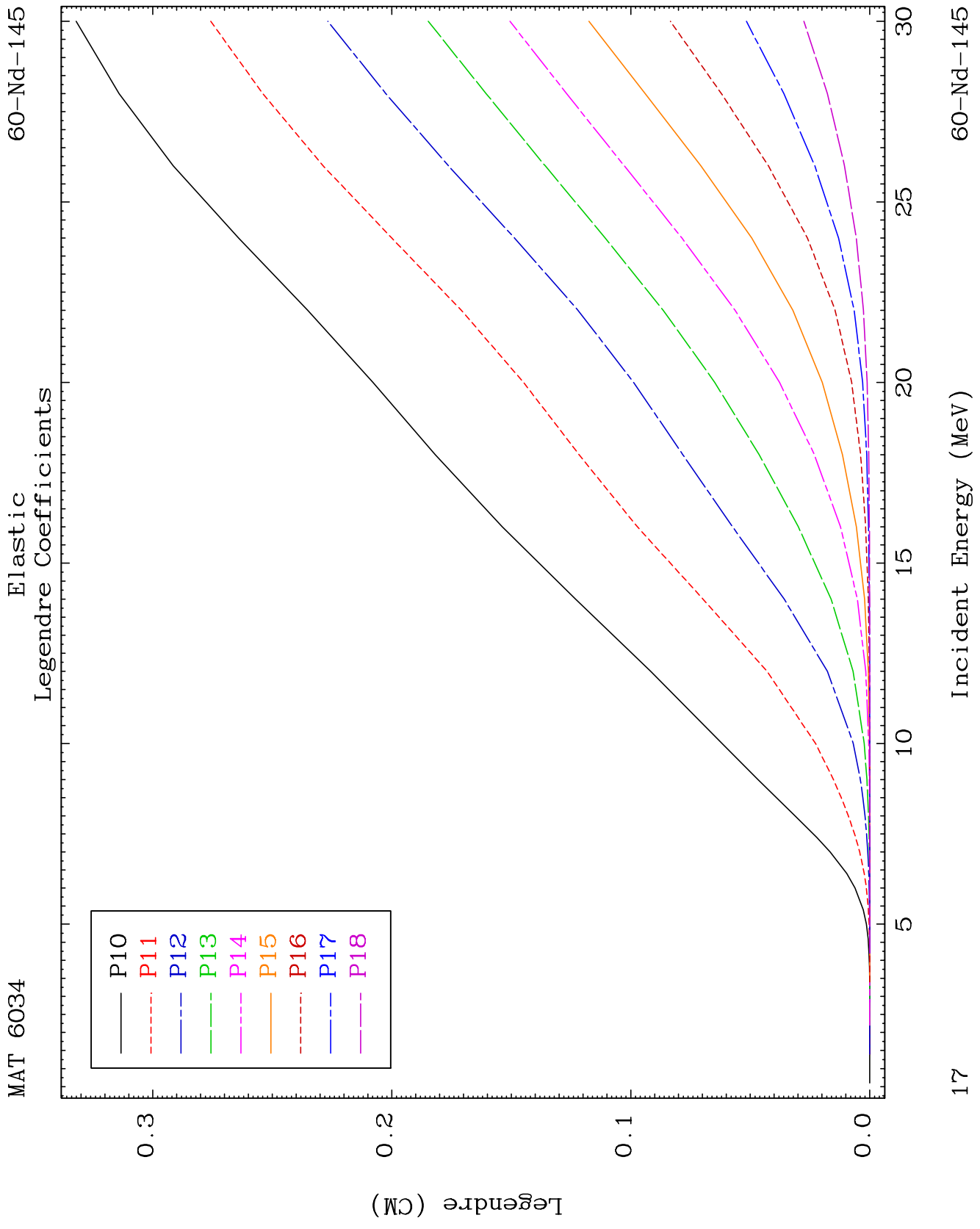
MAT 6034

(n, α) Levels
293 Kelvin Cross Sections

60-Nd-145



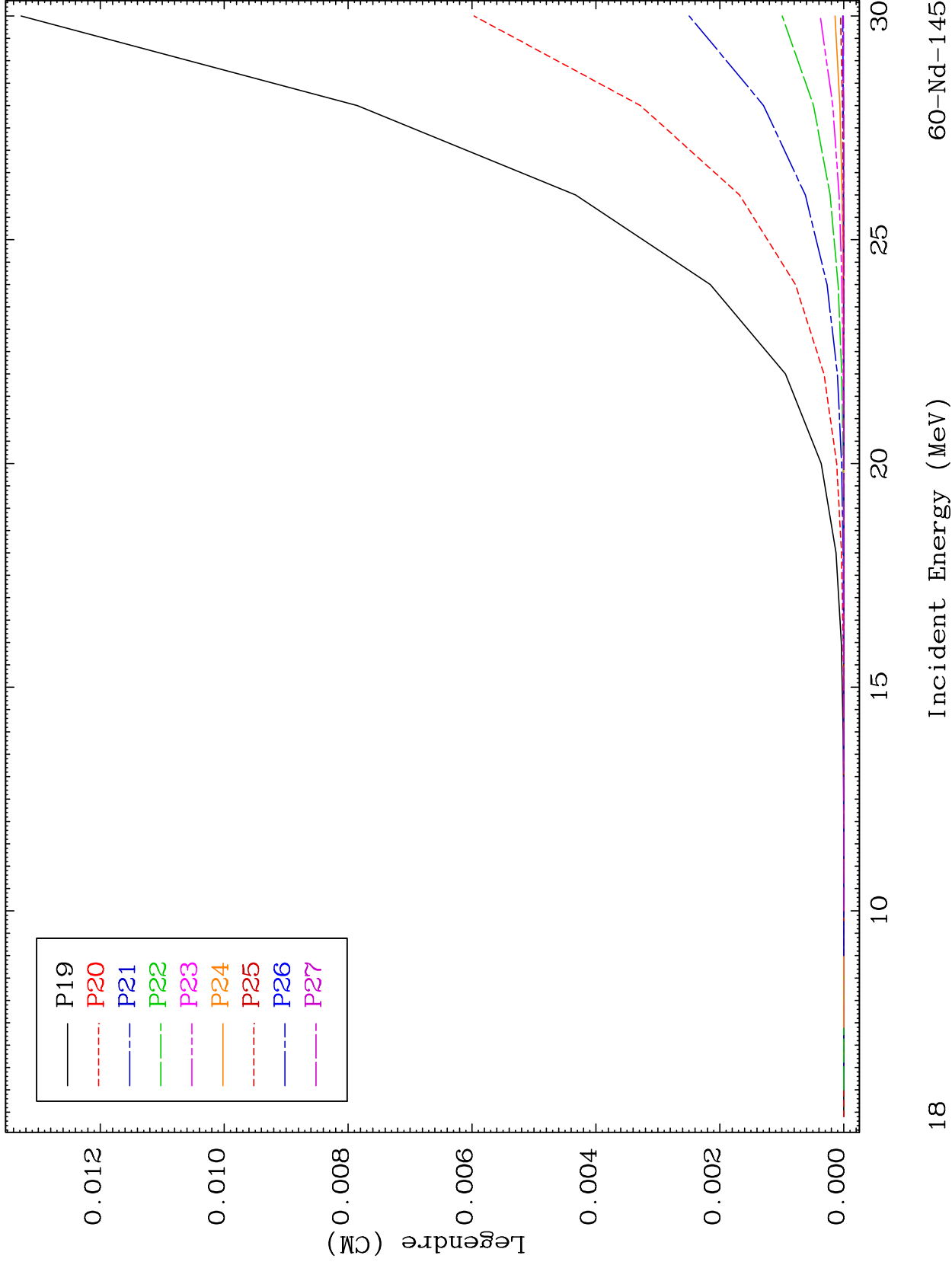




MAT 6034

Elastic Legendre Coefficients

⁶⁰Nd-145



18

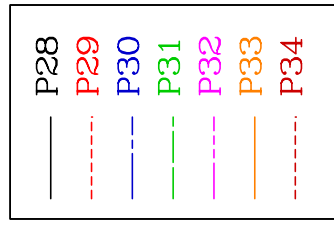
Incident Energy (MeV)

⁶⁰Nd-145

MAT 6034

Elastic
Legendre Coefficients

60-Nd-145



$\times 10^{-6}$

1.5

Legendre (CM)

1.0

0.5

0.0

15

20

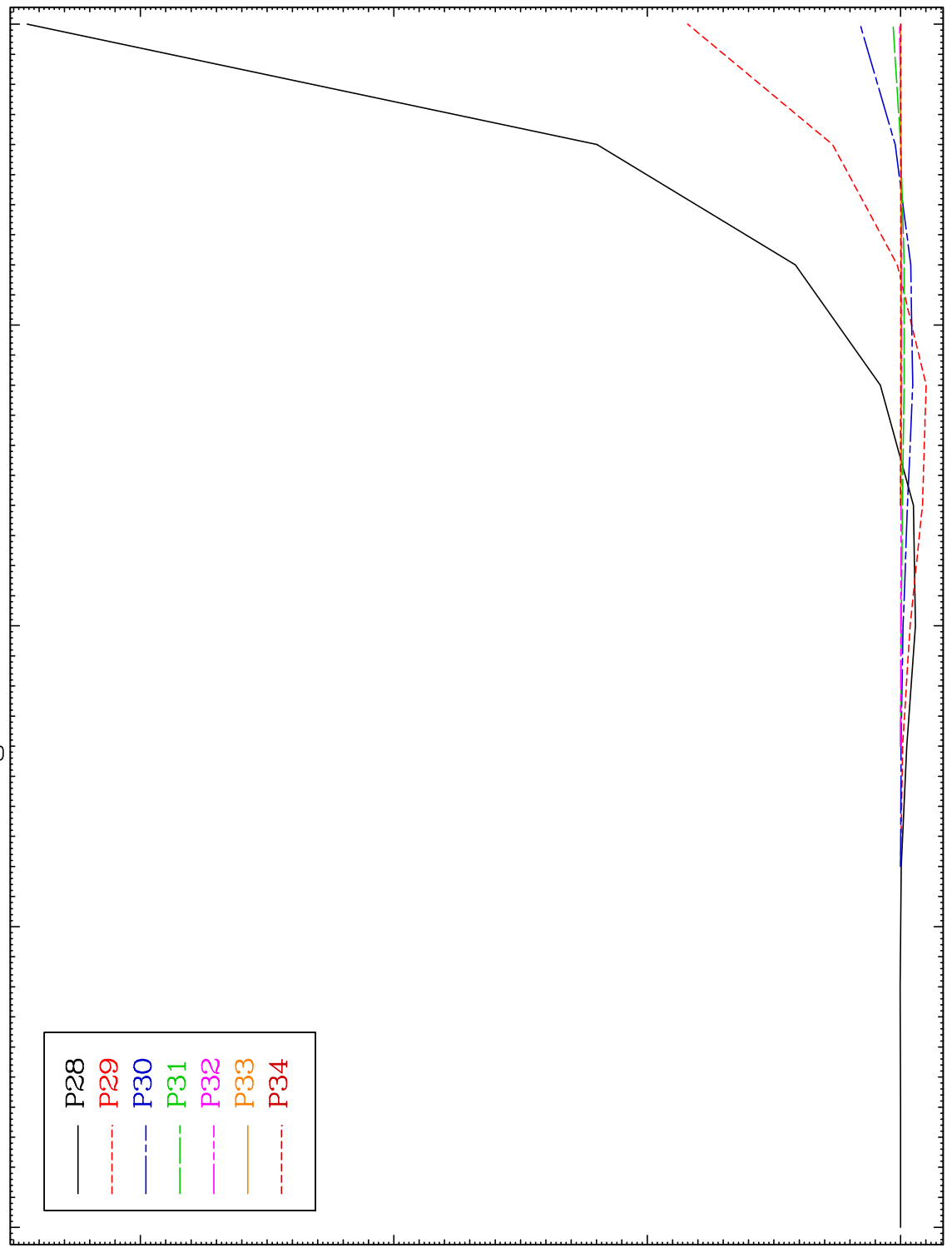
25

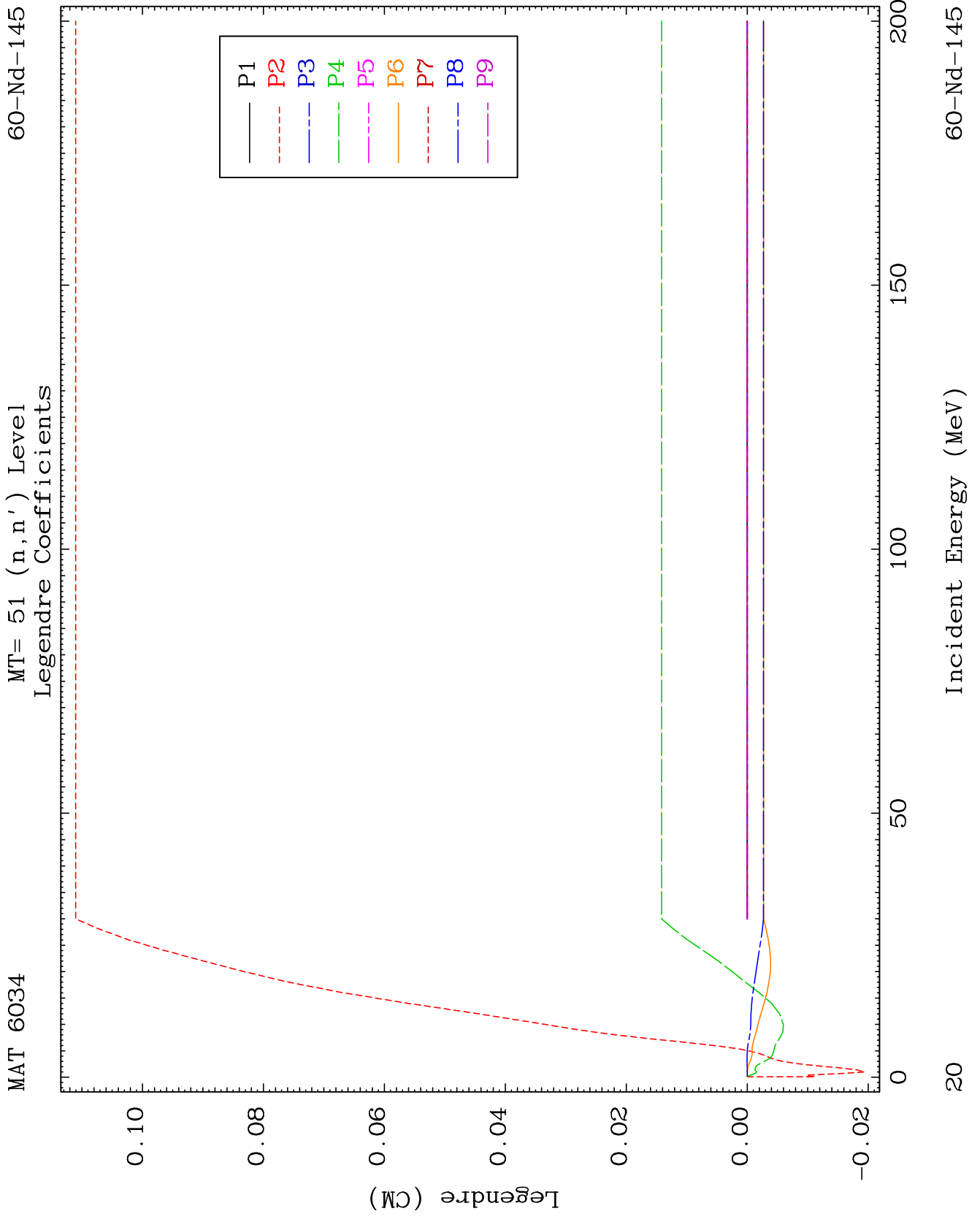
30

19

Incident Energy (MeV)

60-Nd-145

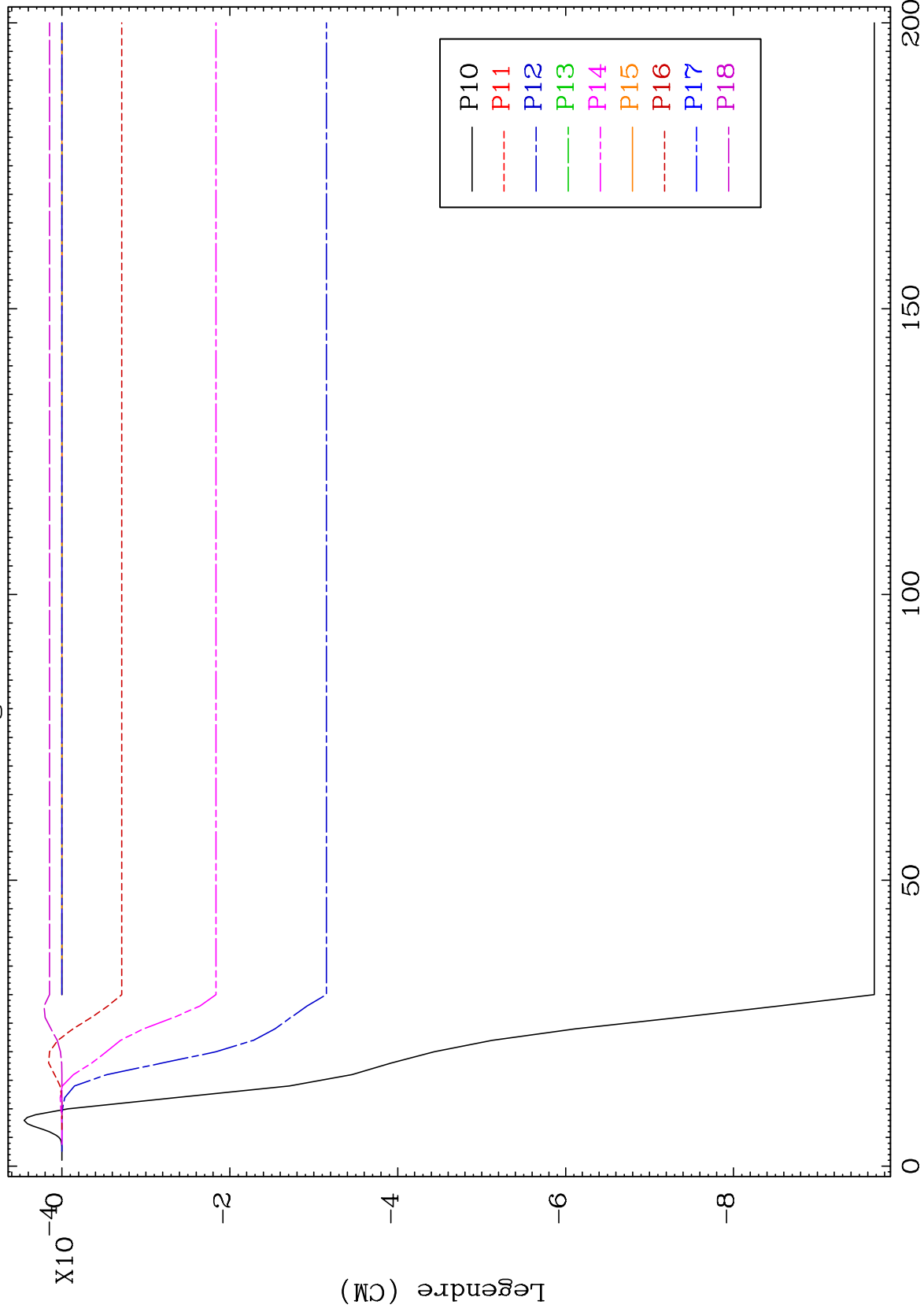




MAT 6034

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

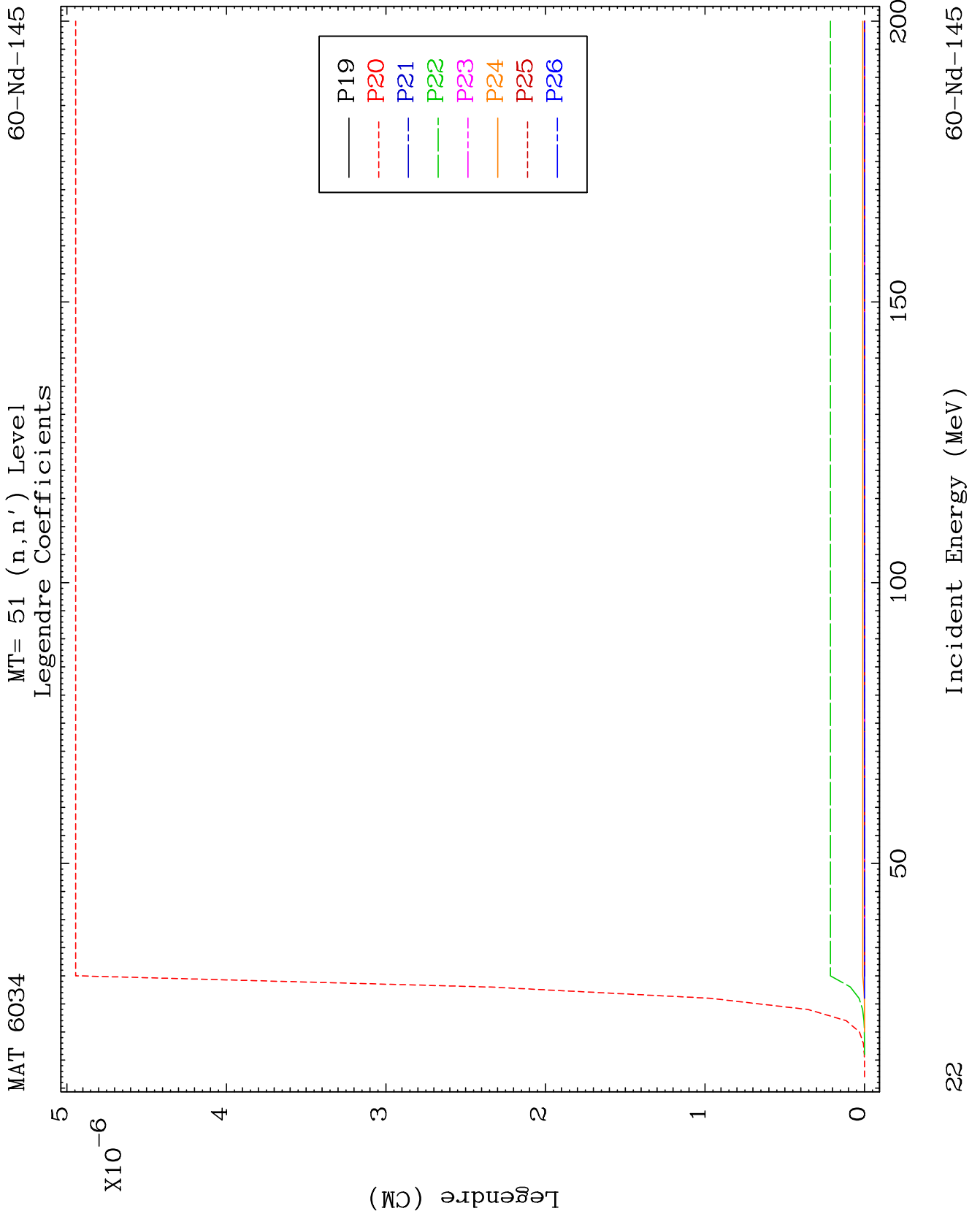
60-Nd-145



21

Incident Energy (MeV)

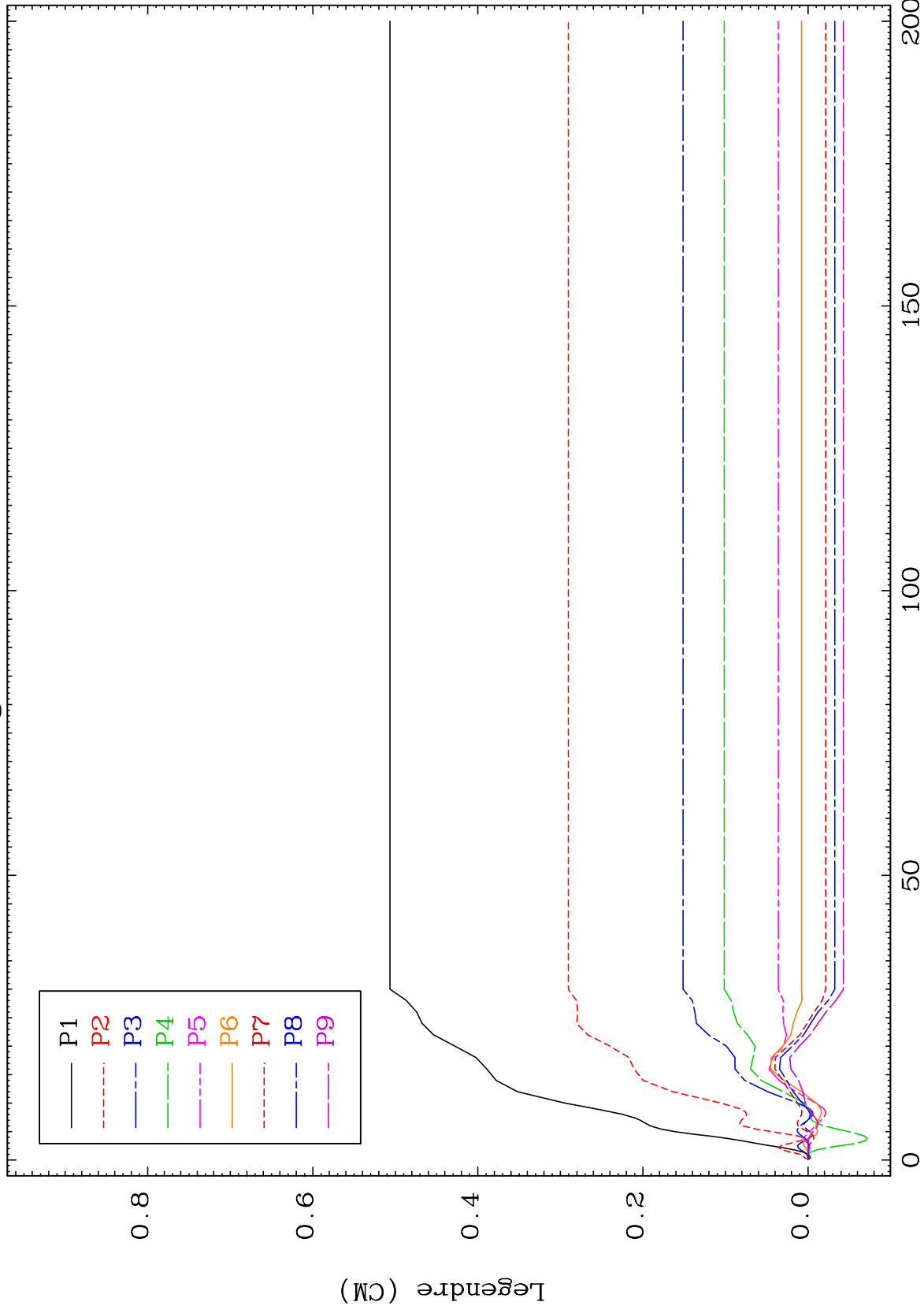
60-Nd-145



MAT 6034

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

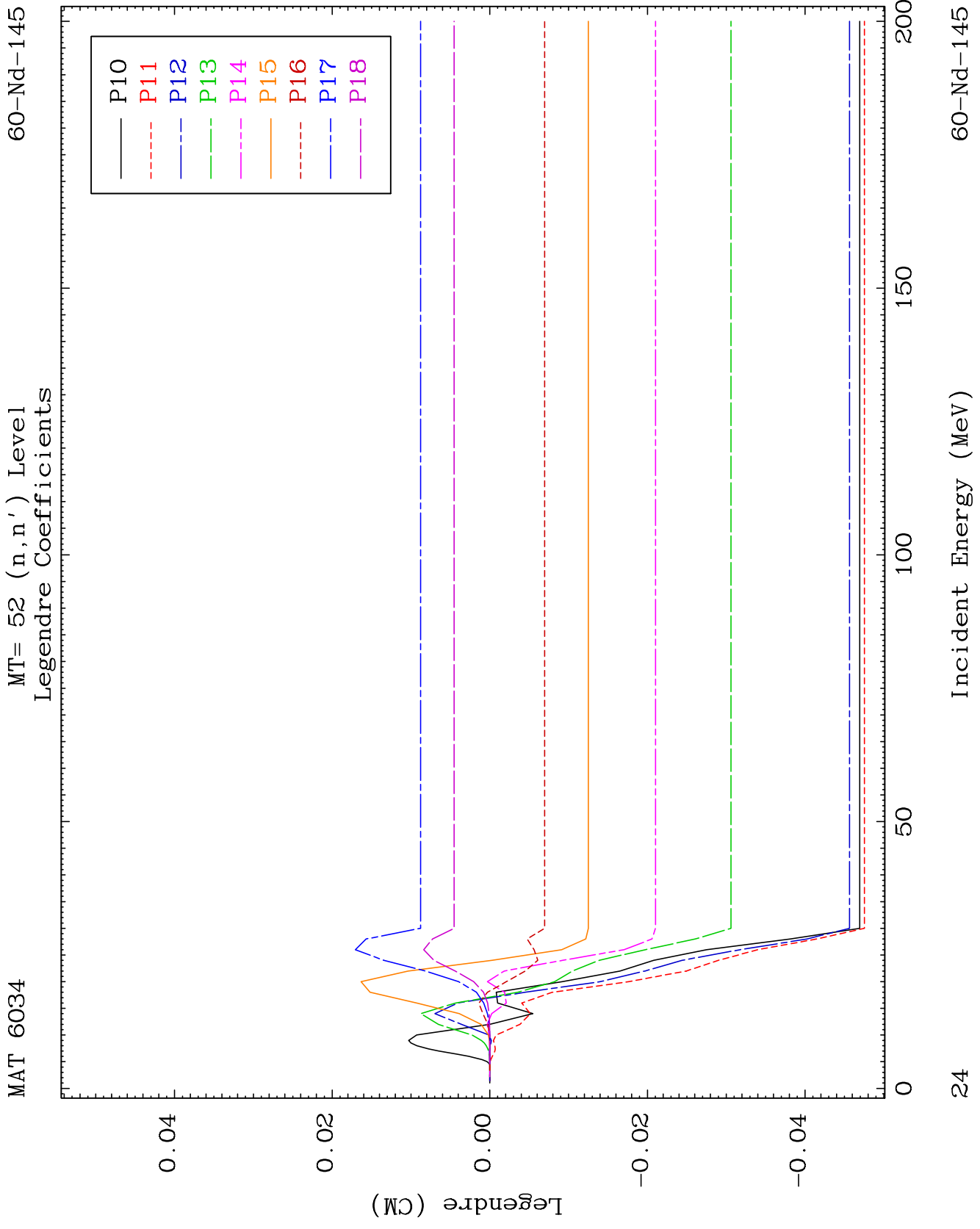
60-Nd-145



23

Incident Energy (MeV)

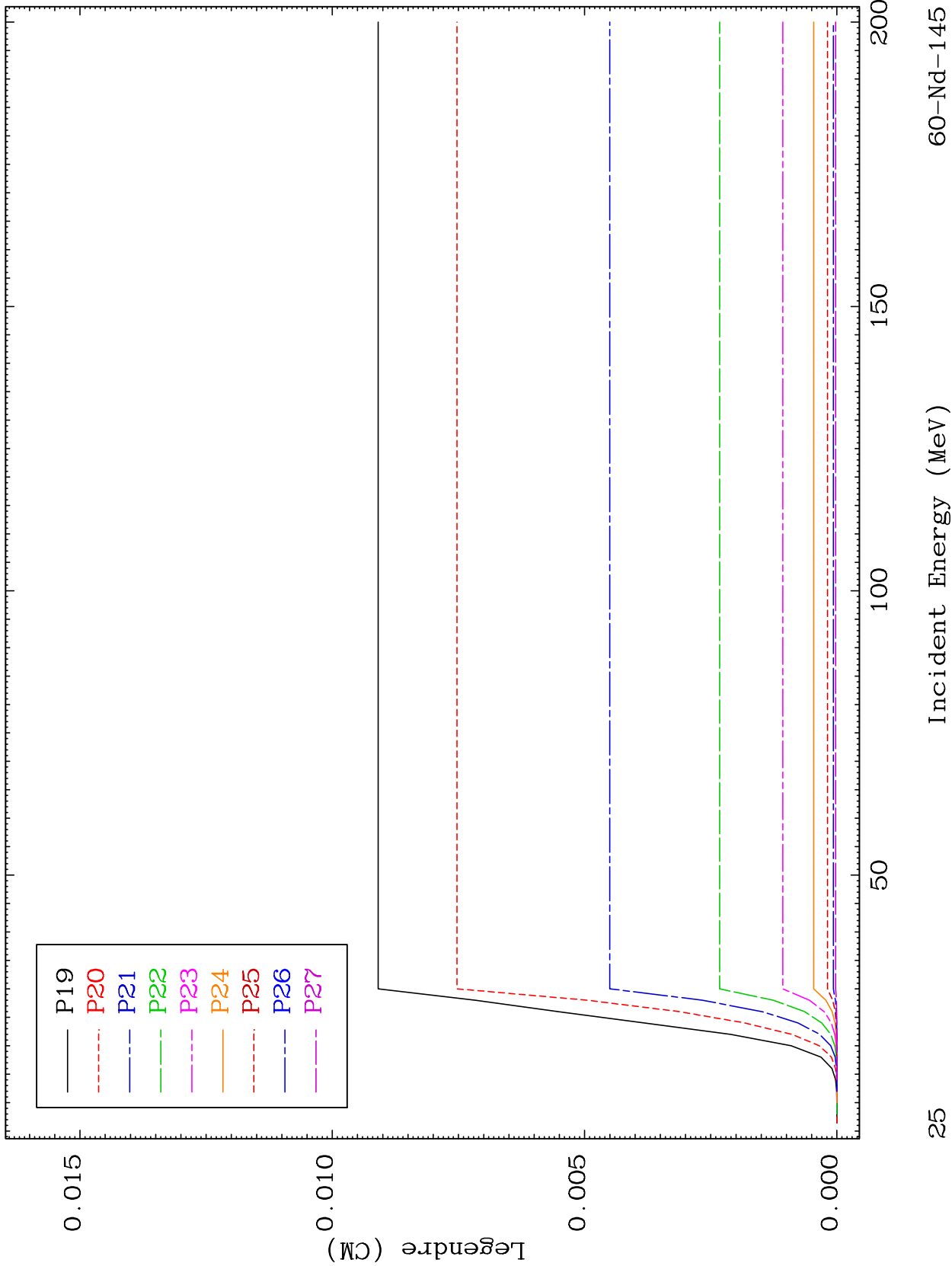
60-Nd-145



MAT 6034

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

60-Nd-145



25

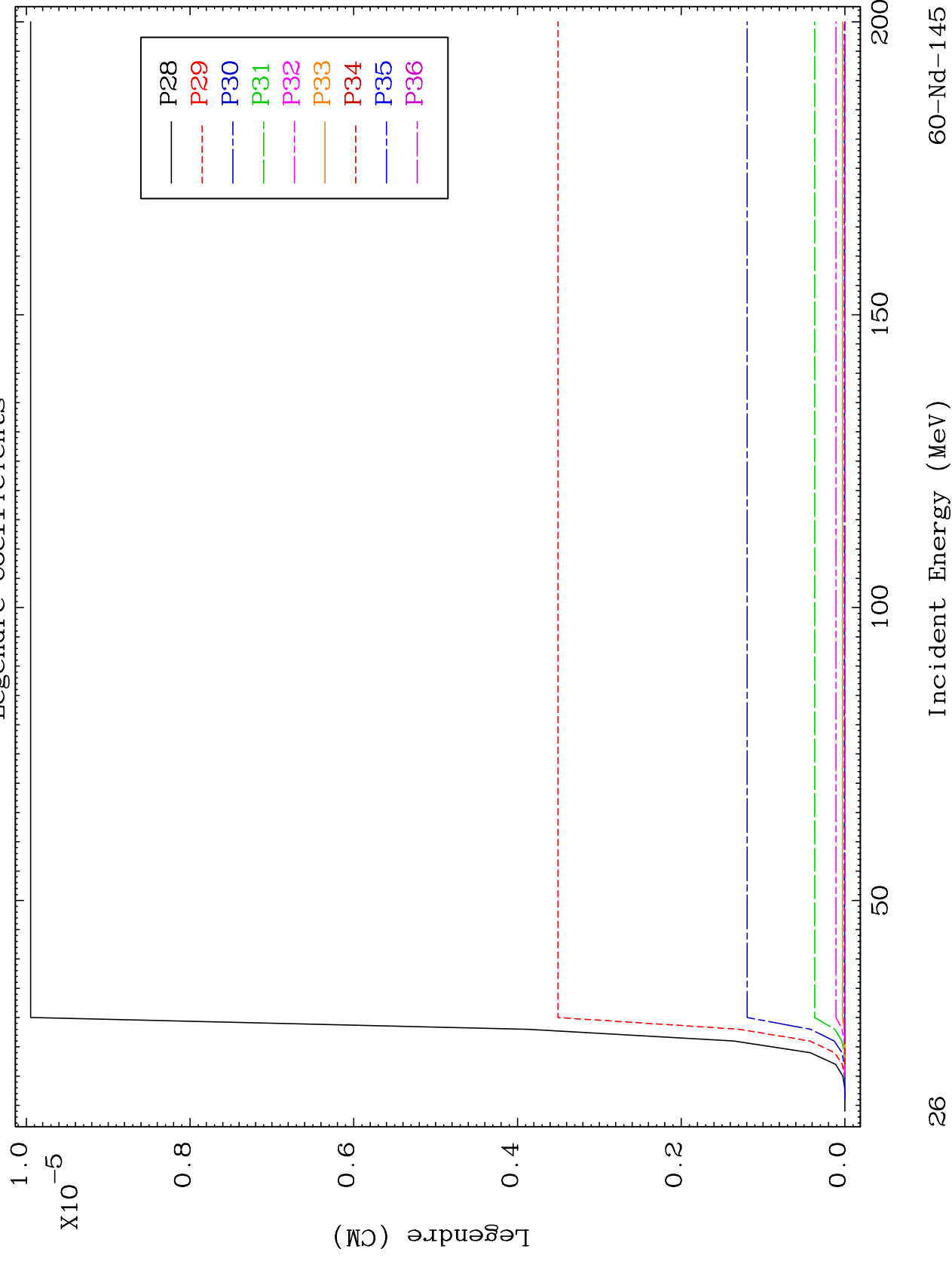
Incident Energy (MeV)

60-Nd-145

MAT 6034

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

60-Nd-145



26

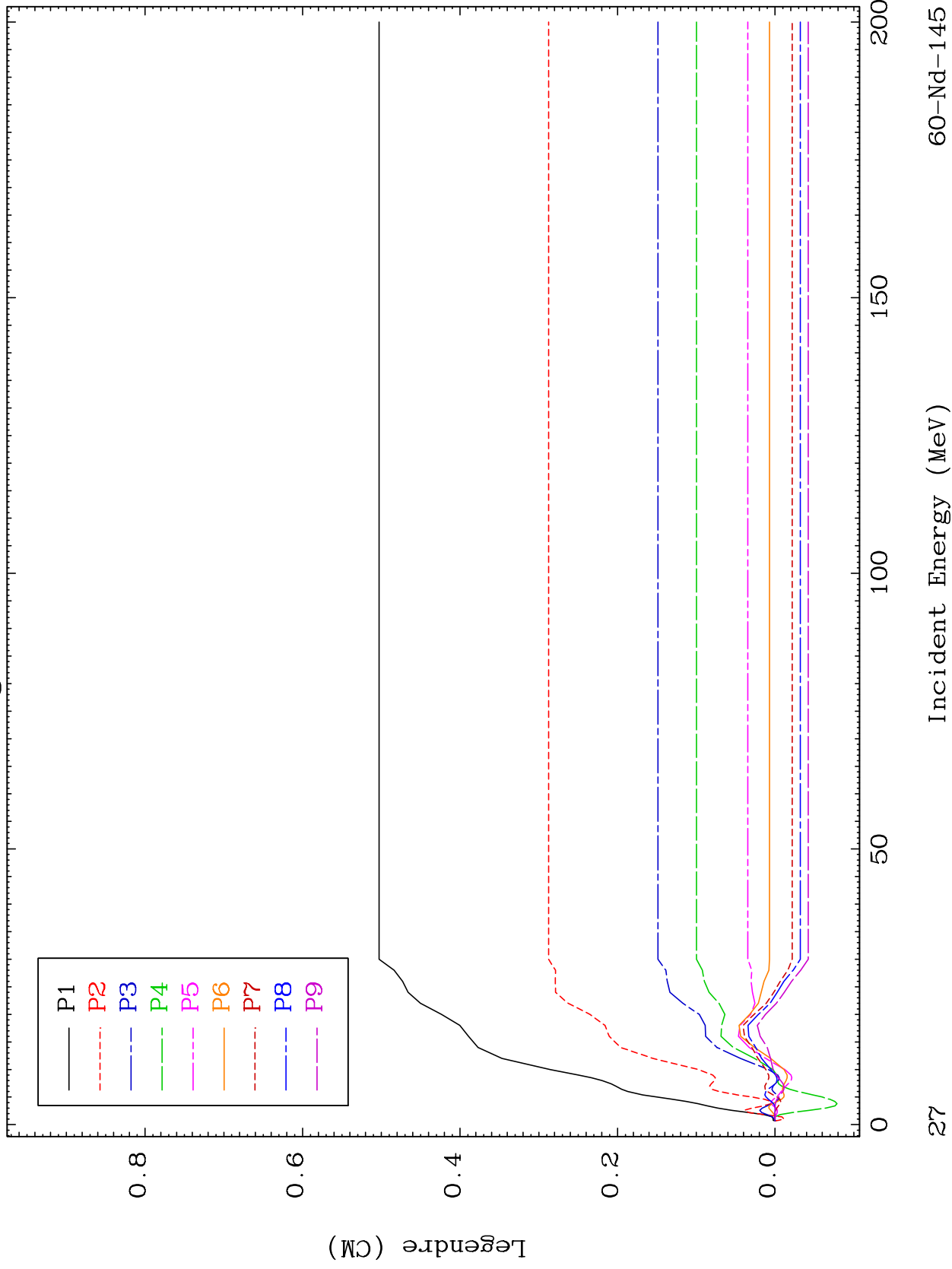
Incident Energy (MeV)

60-Nd-145

MAT 6034

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

60-Nd-145



27

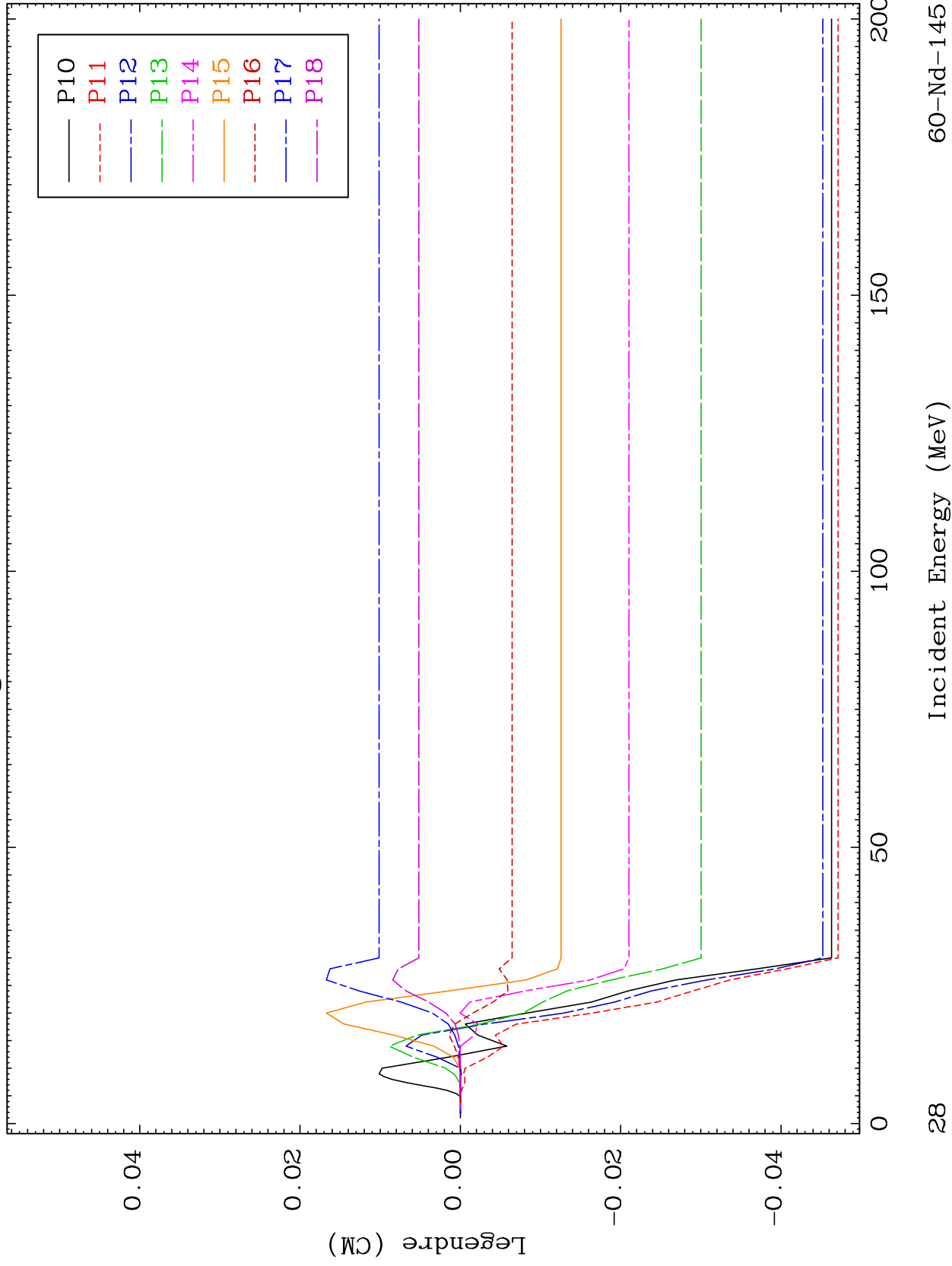
Incident Energy (MeV)

60-Nd-145

MAT 6034

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

60-Nd-145



28

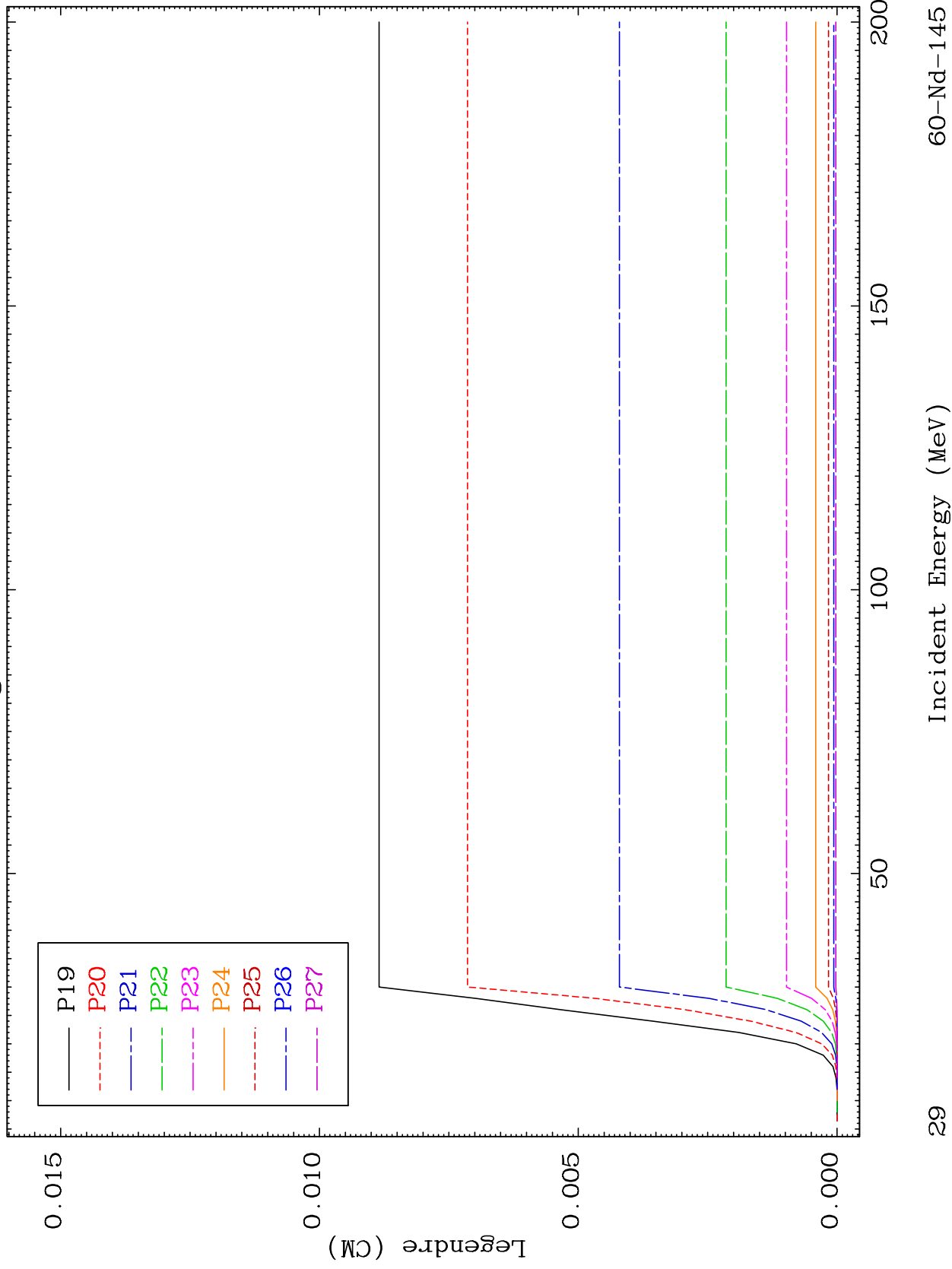
Incident Energy (MeV)

60-Nd-145

MAT 6034

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

60-Nd-145



29

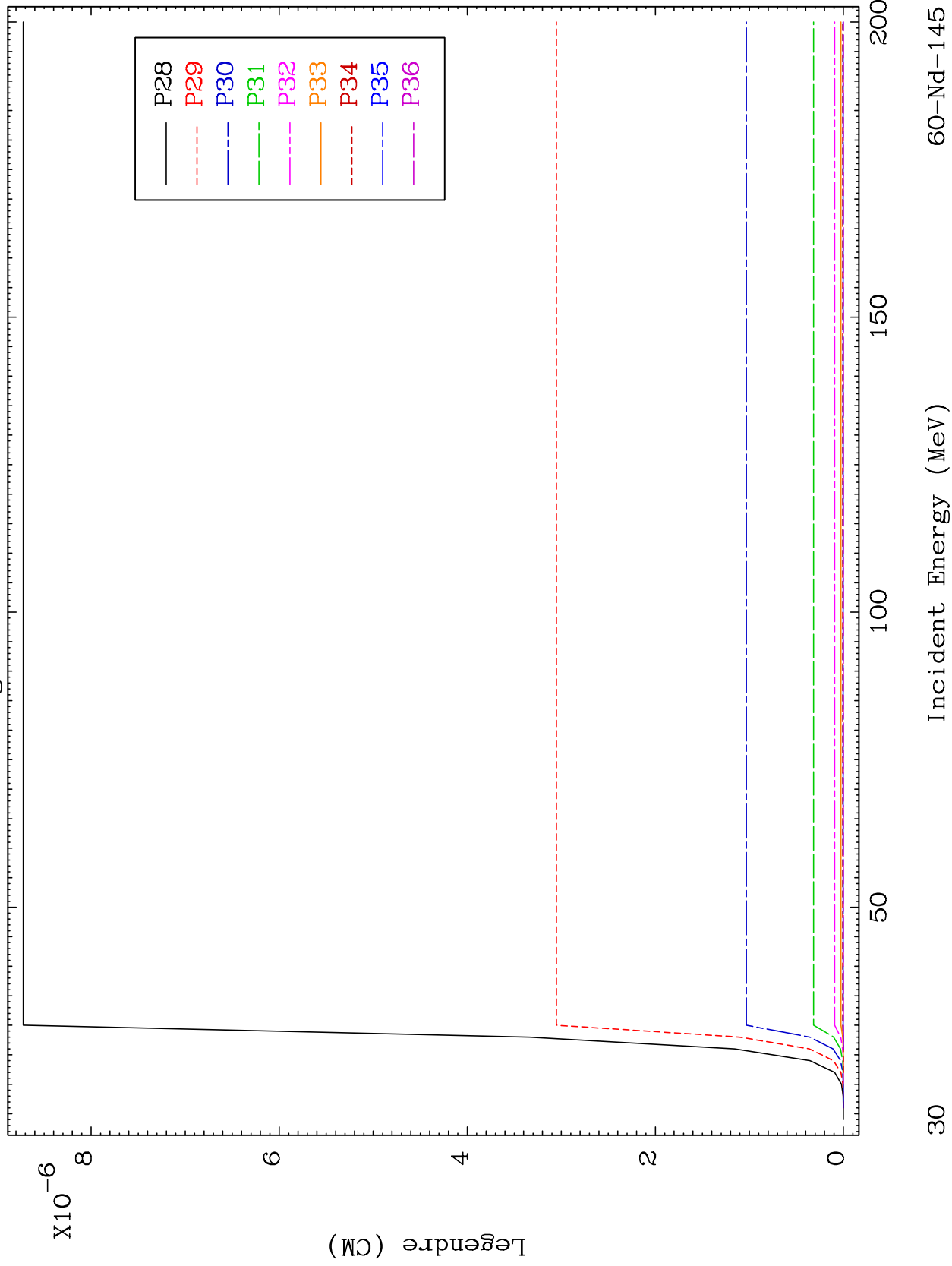
Incident Energy (MeV)

60-Nd-145

MAT 6034

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

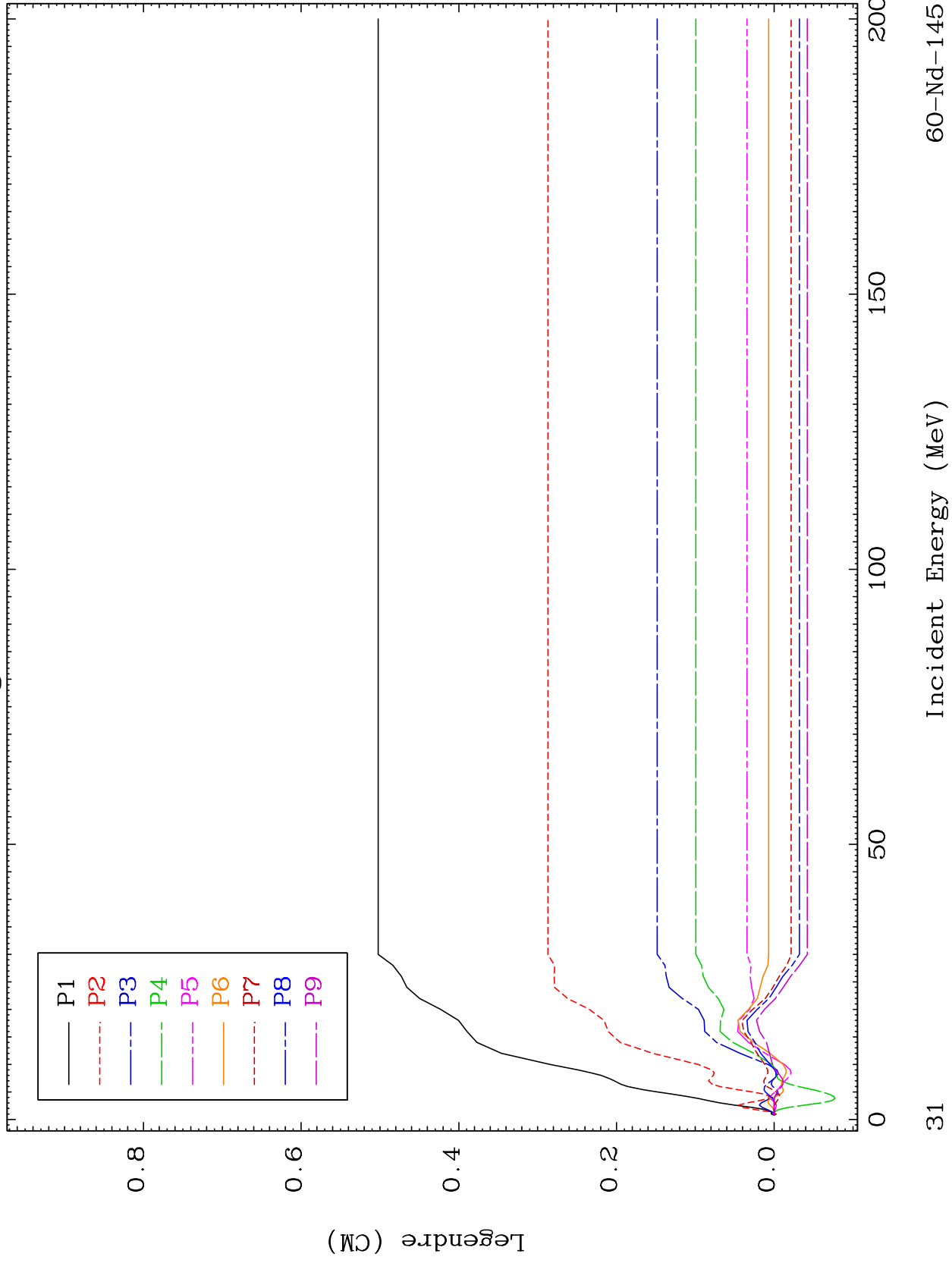
60-Nd-145



MAT 6034

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

60-Nd-145



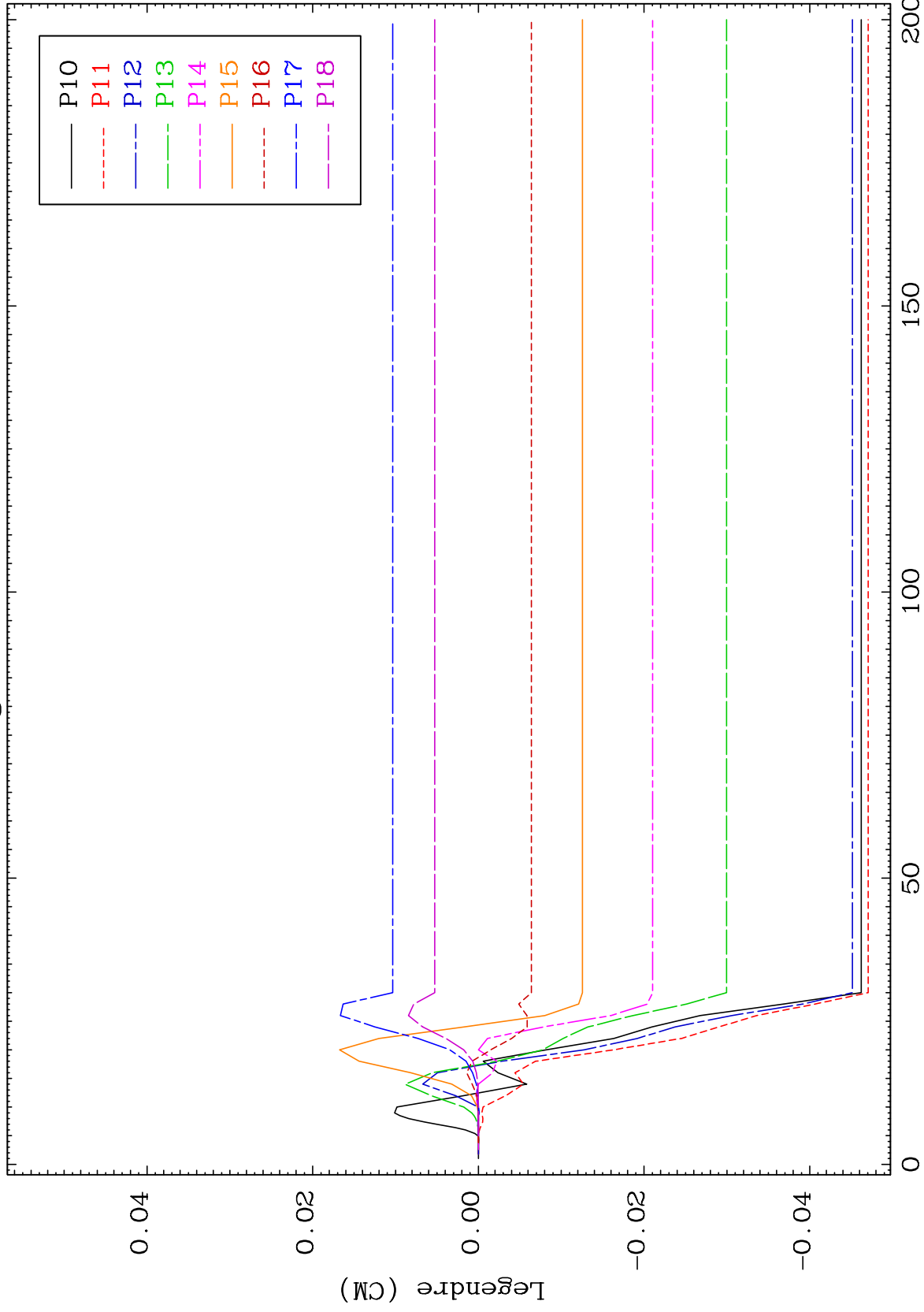
31

60-Nd-145

MAT 6034

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

60-Nd-145



32

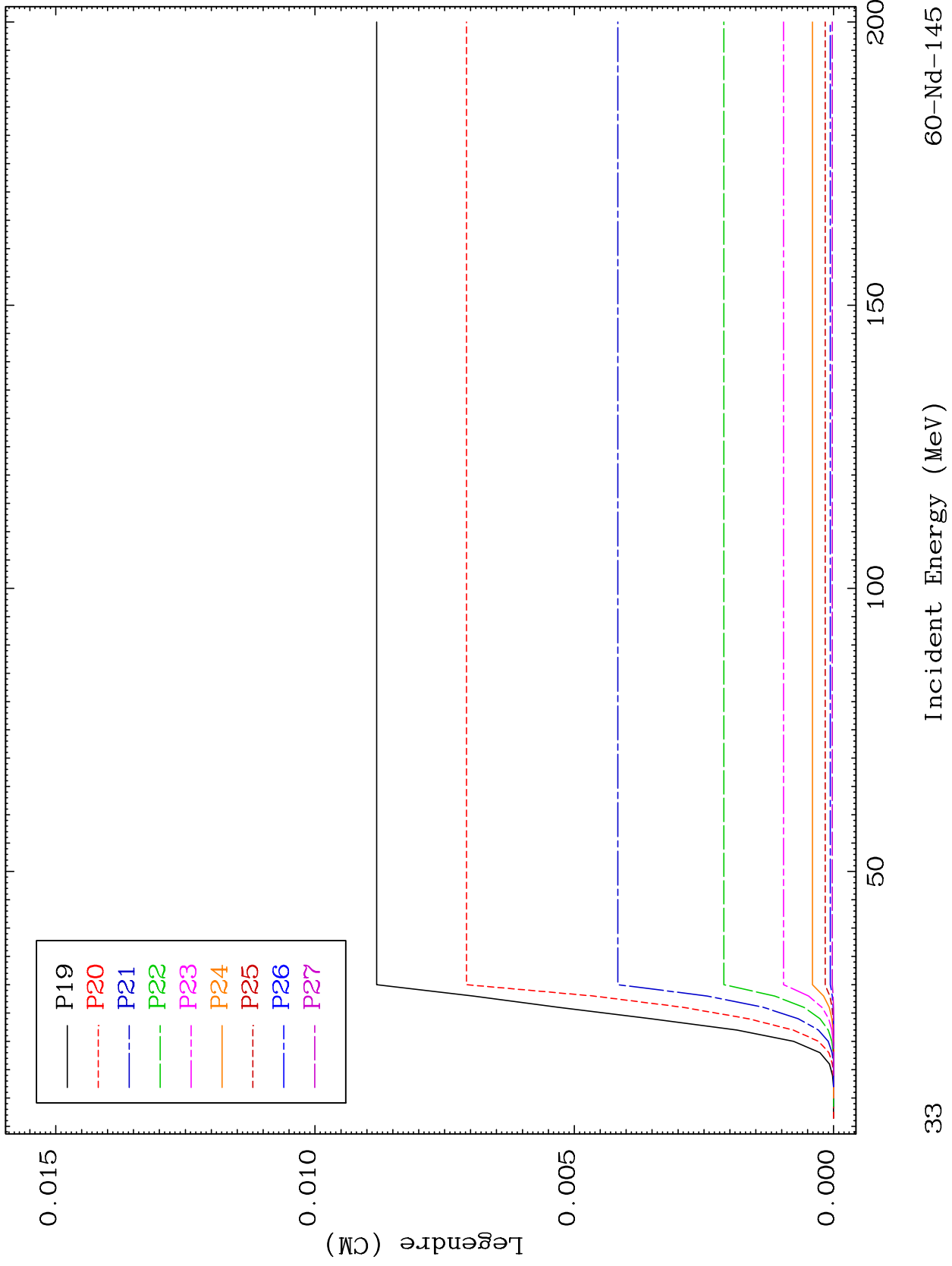
Incident Energy (MeV)

60-Nd-145

MAT 6034

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

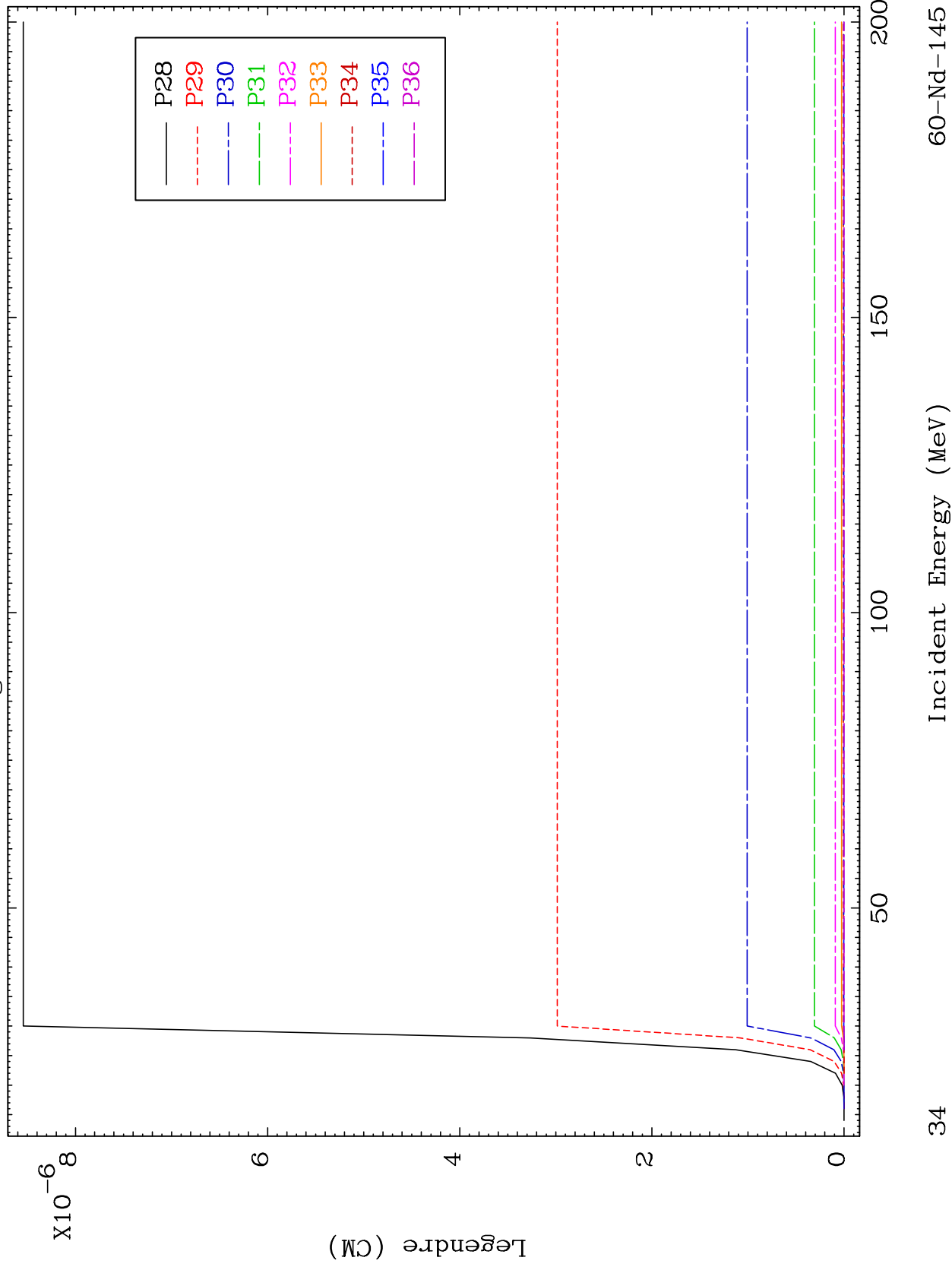
60-Nd-145



MAT 6034

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

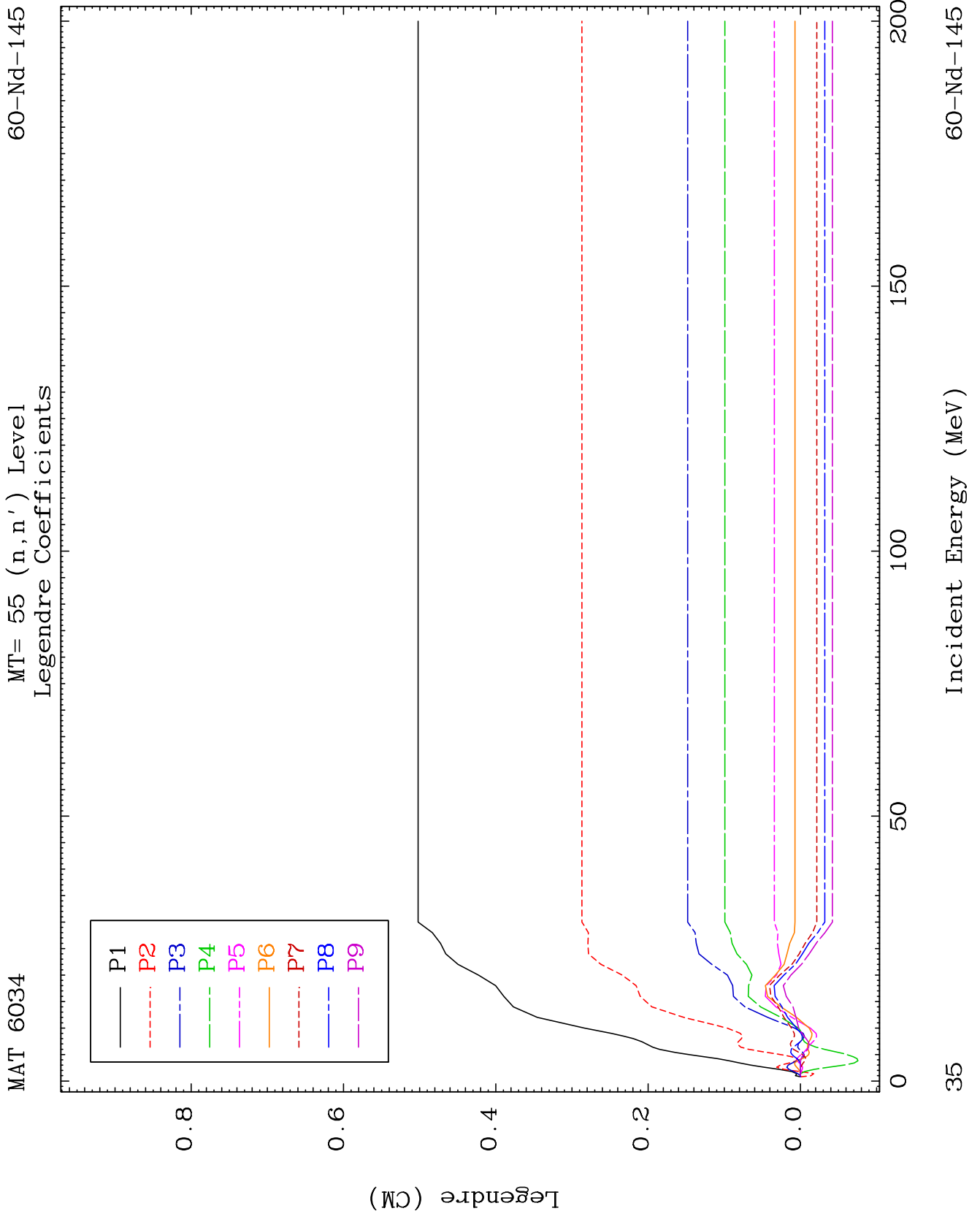
60-Nd-145



34

Incident Energy (MeV)

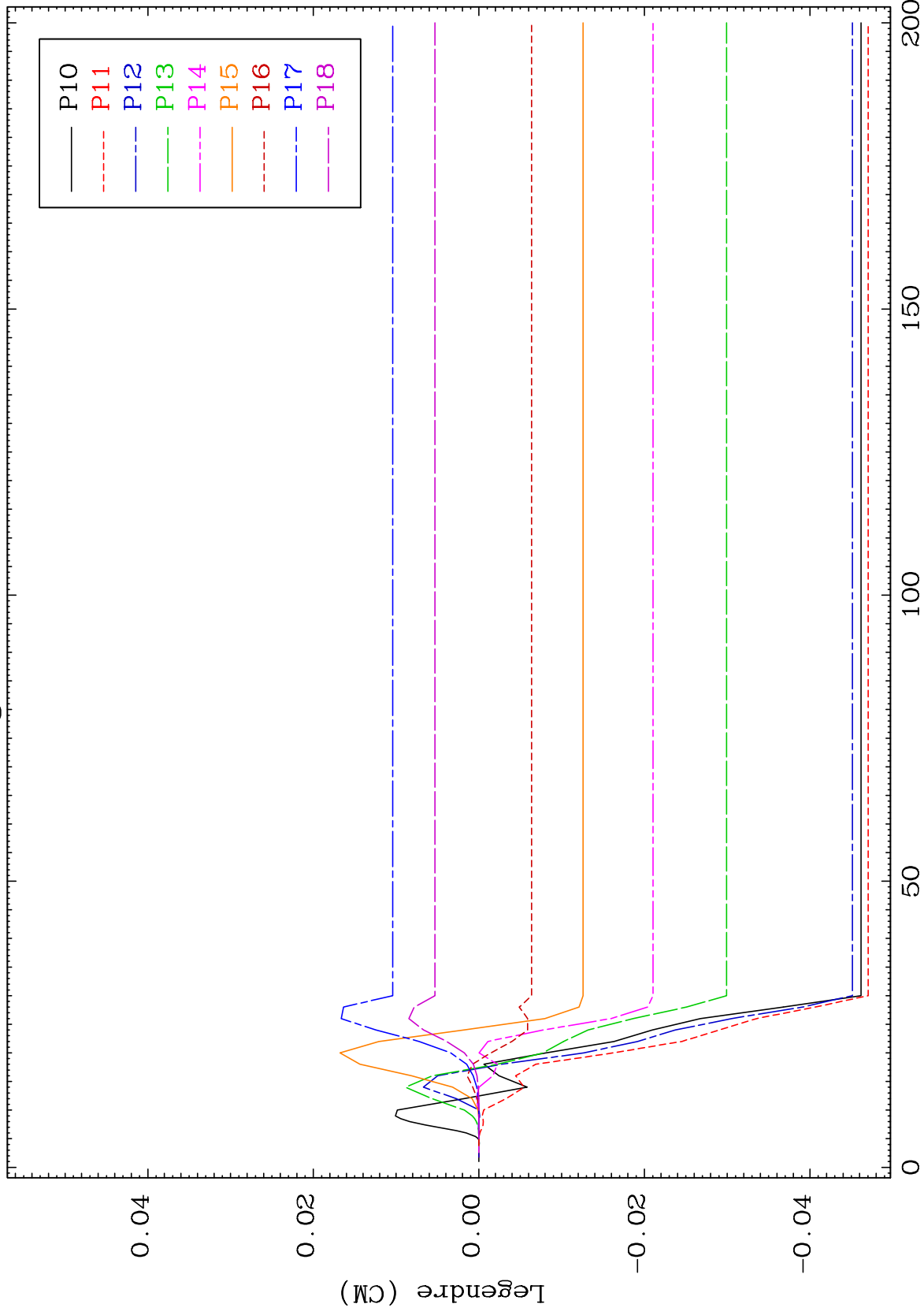
60-Nd-145



MAT 6034

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

60-Nd-145



36

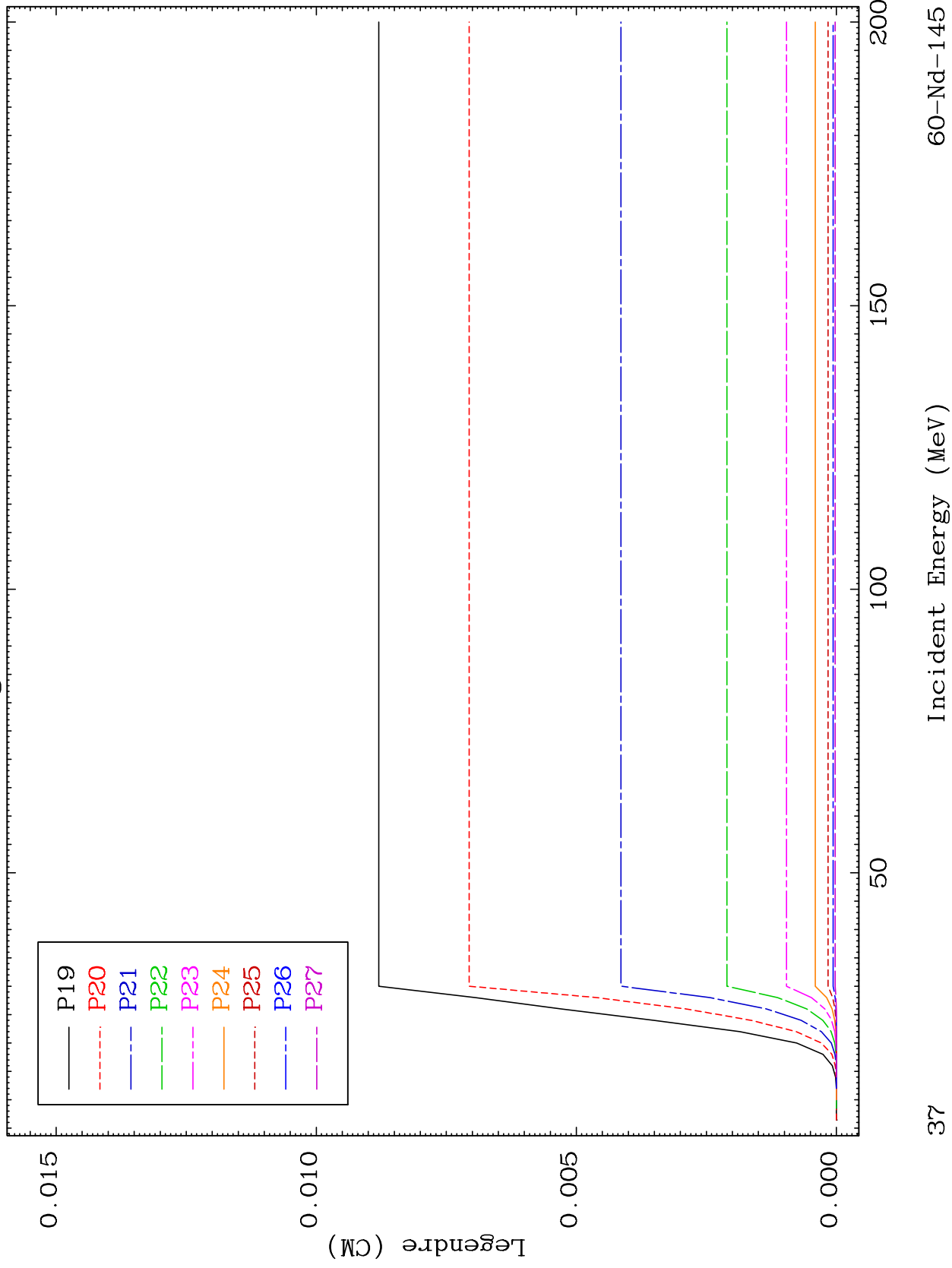
Incident Energy (MeV)

60-Nd-145

MAT 6034

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

60-Nd-145



37

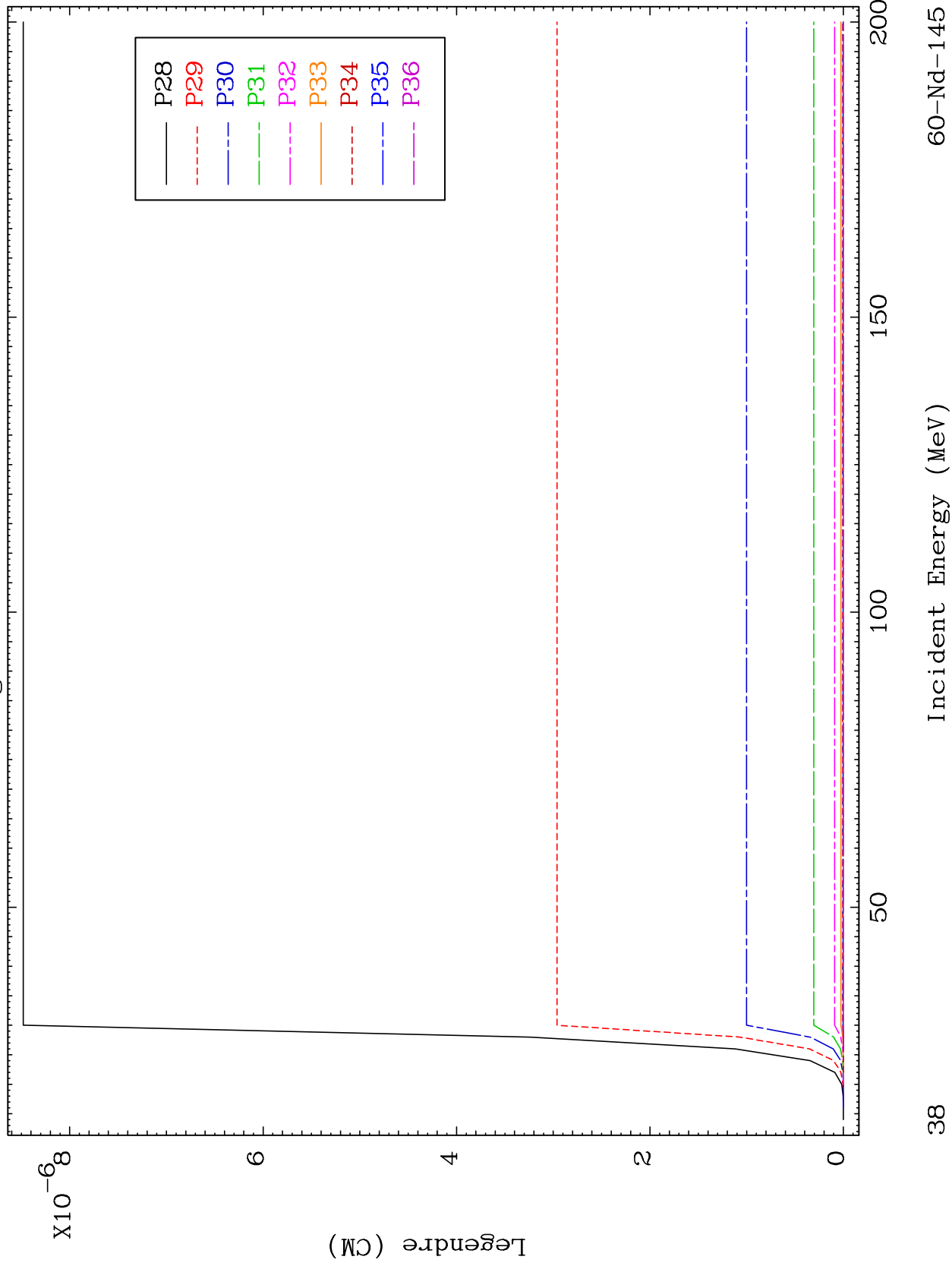
Incident Energy (MeV)

60-Nd-145

MAT 6034

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

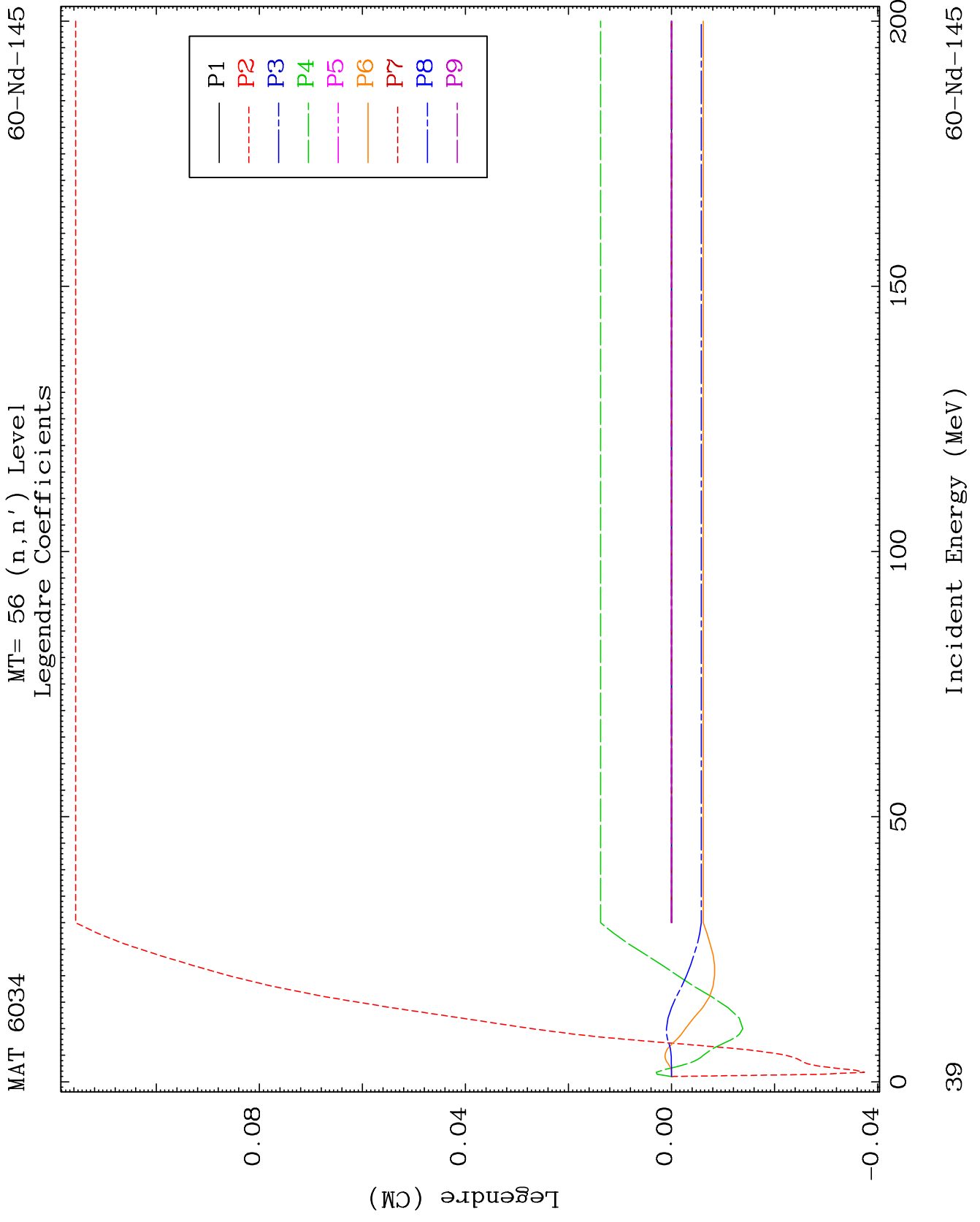
60-Nd-145



38

Incident Energy (MeV)

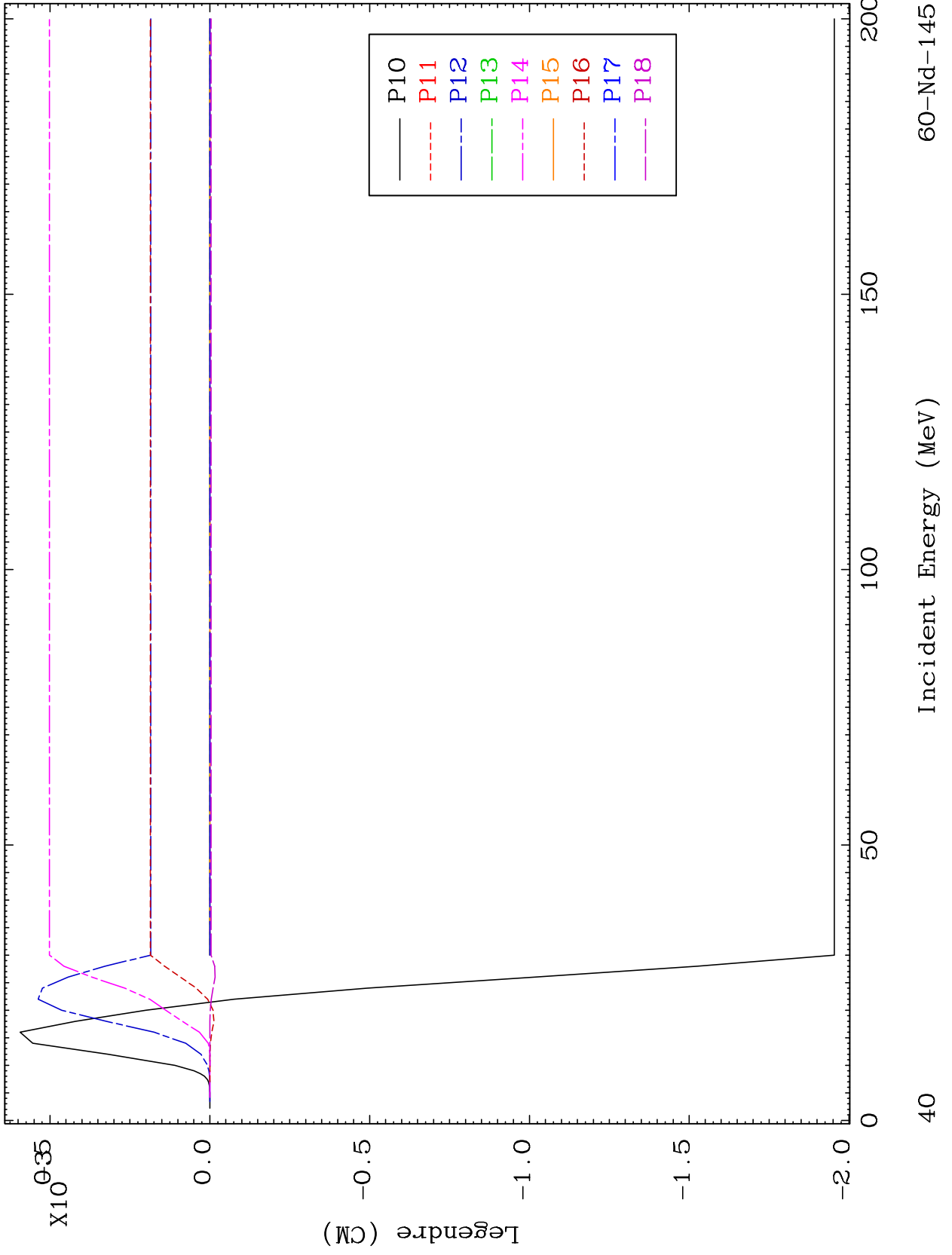
60-Nd-145



MAT 6034

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

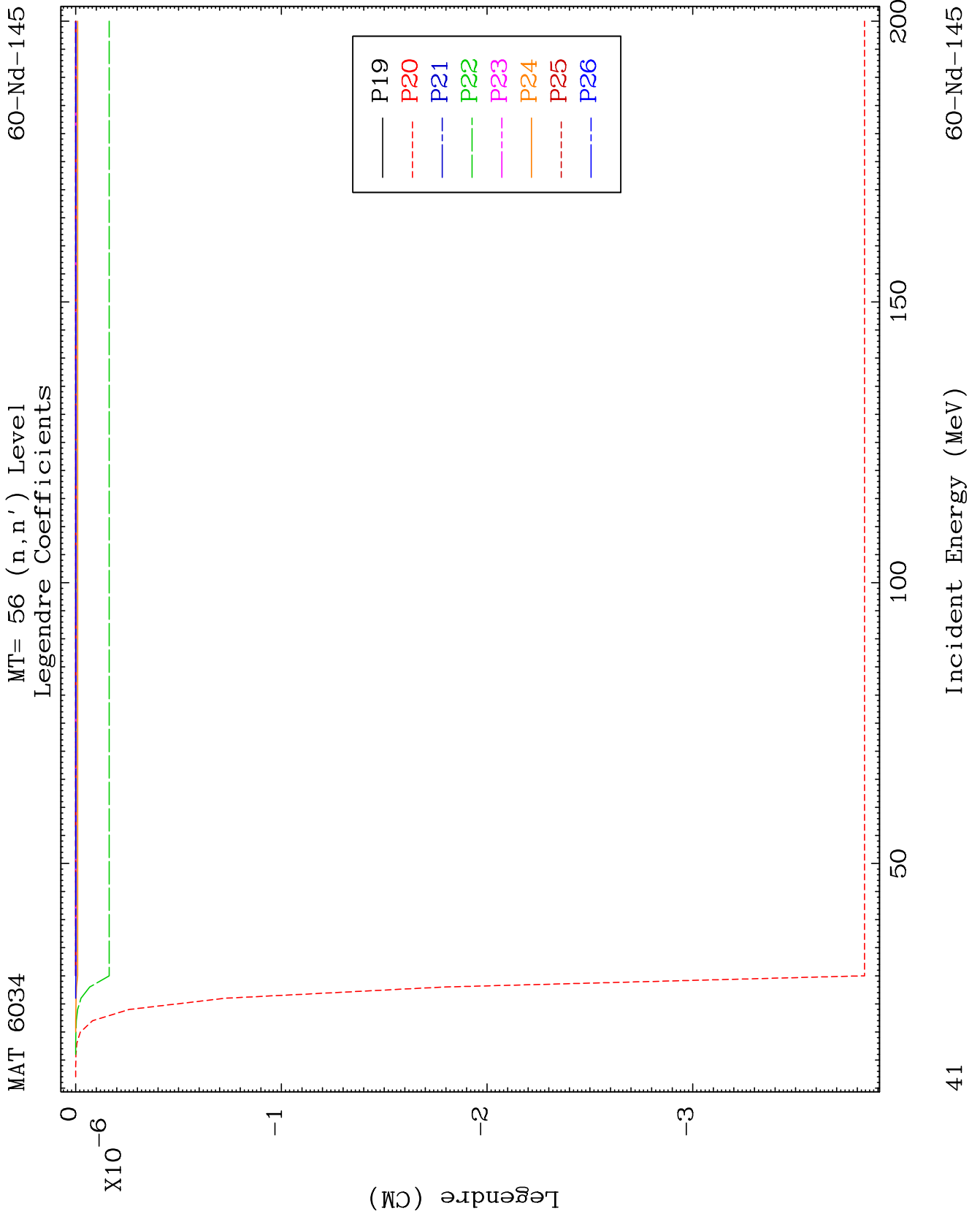
60-Nd-145



60-Nd-145

Incident Energy (MeV)

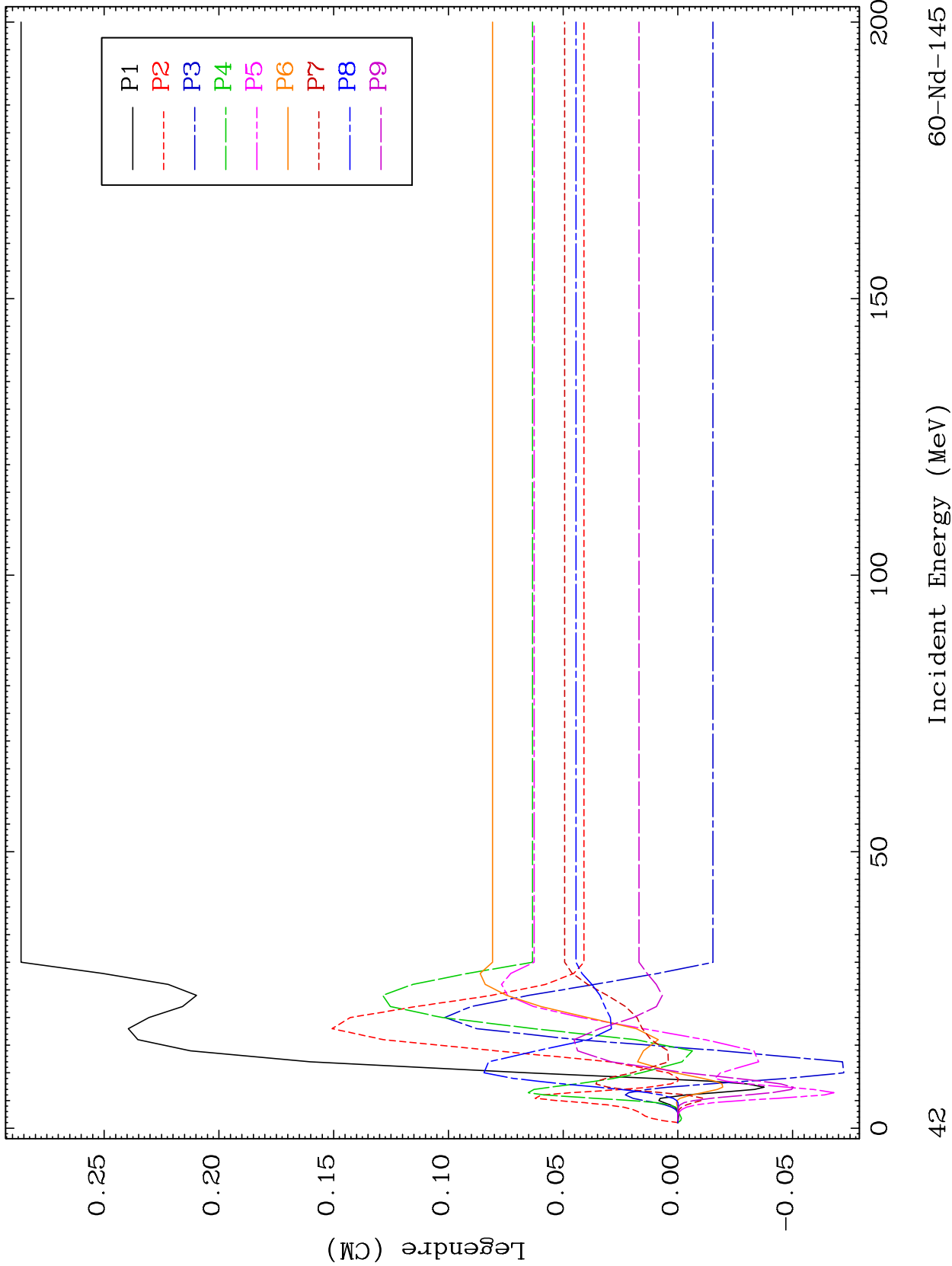
40



MAT 6034

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

60-Nd-145



42

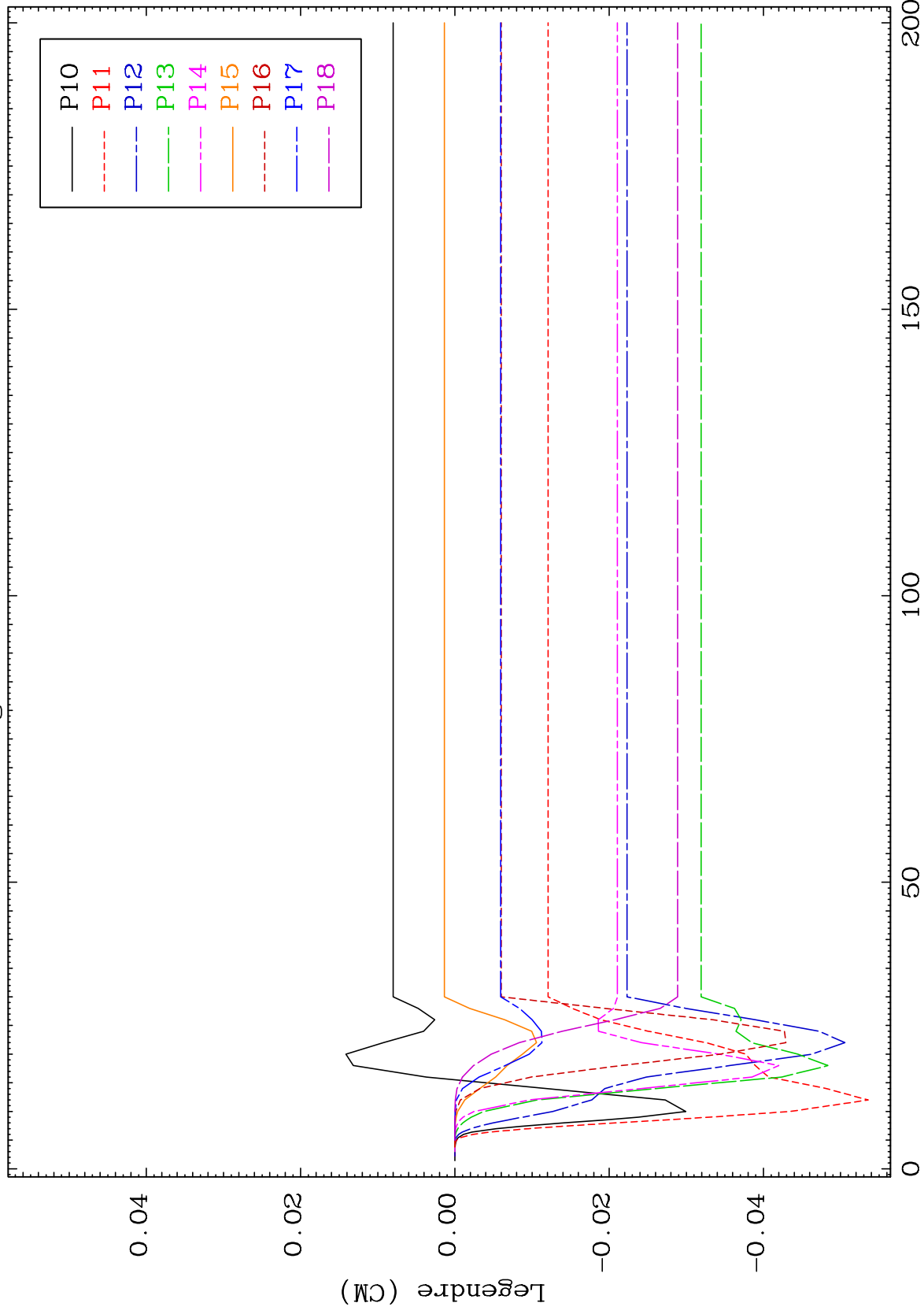
Incident Energy (MeV)

60-Nd-145

MAT 6034

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

60-Nd-145



43

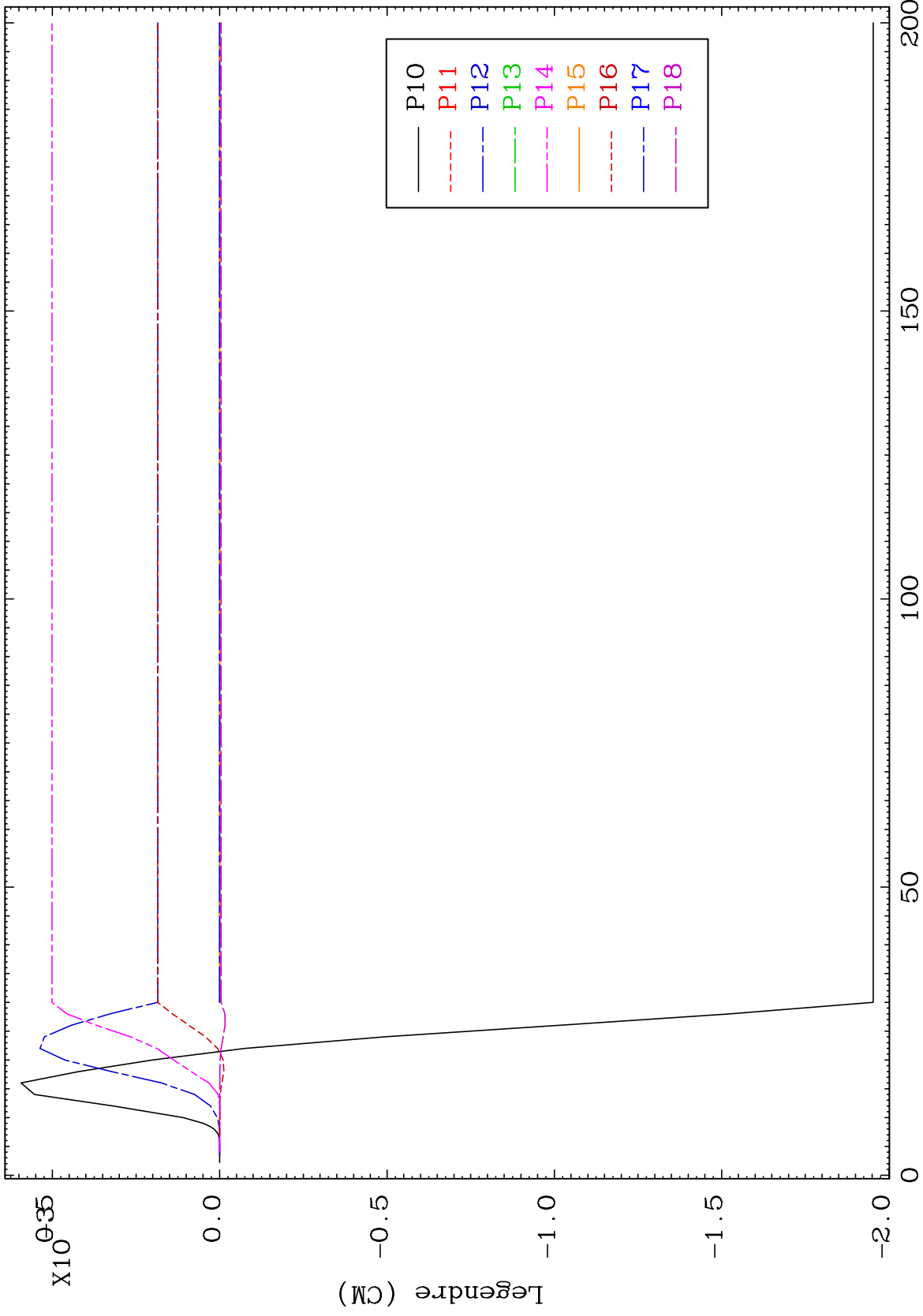
Incident Energy (MeV)

60-Nd-145

MAT 6034

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

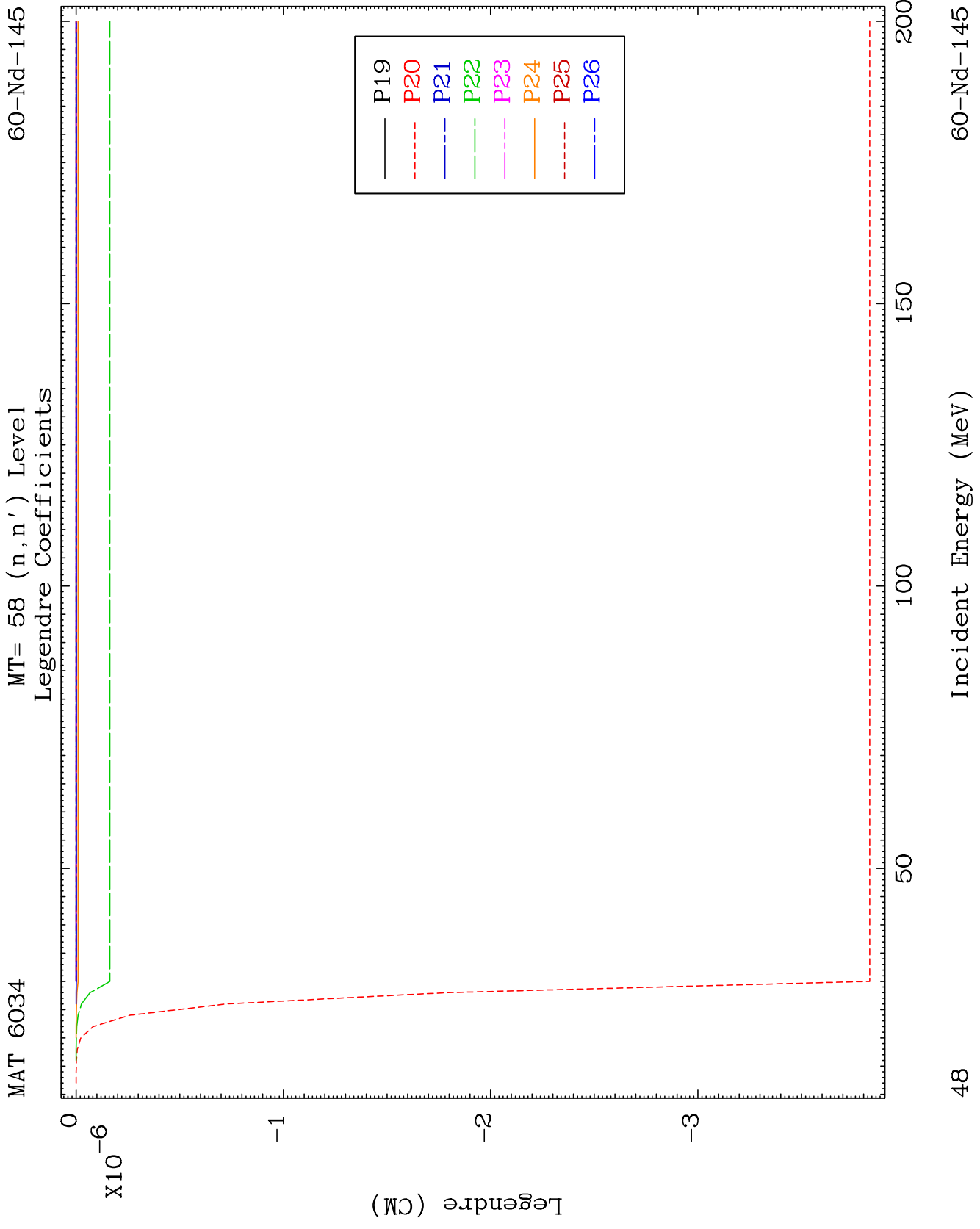
60-Nd-145

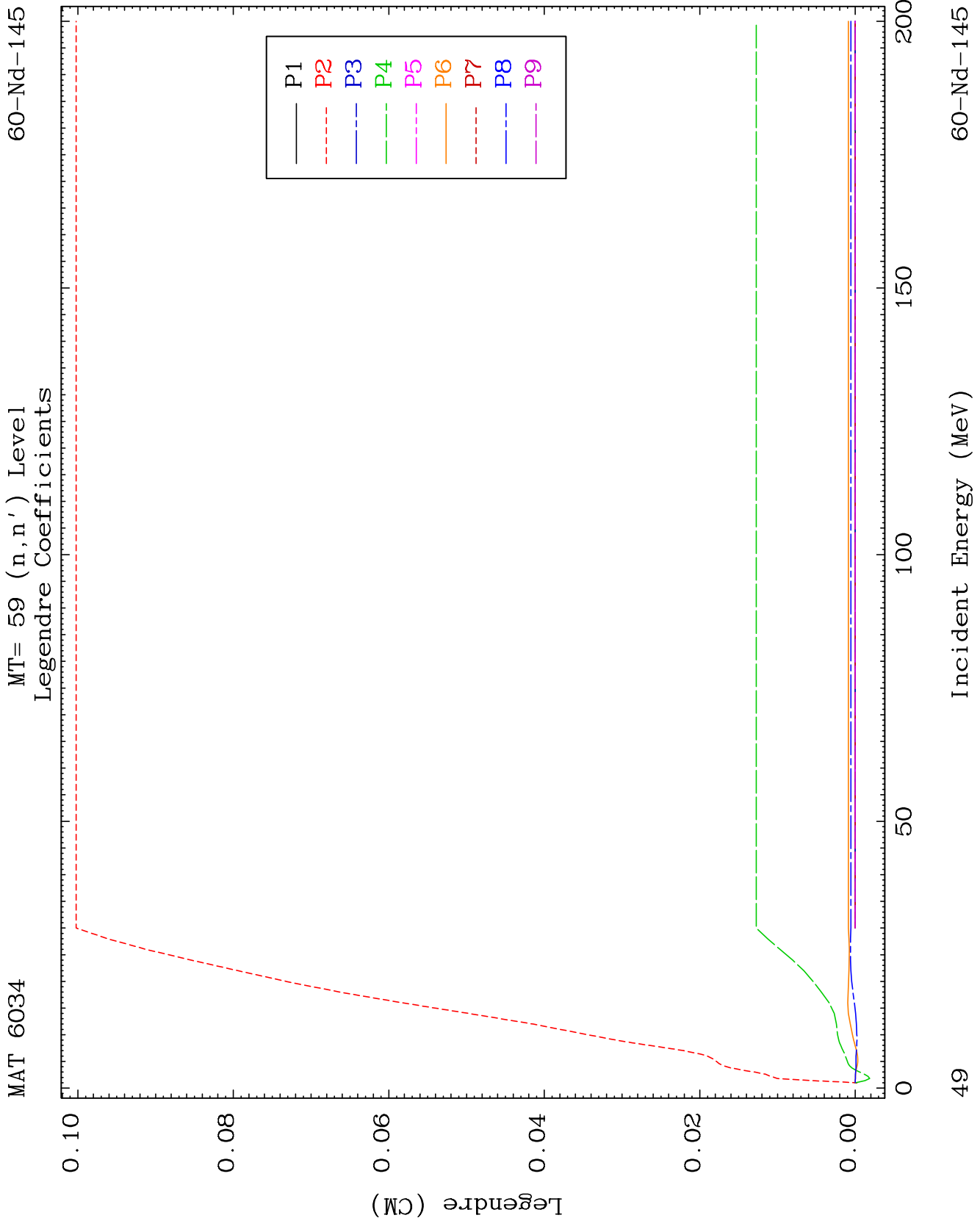


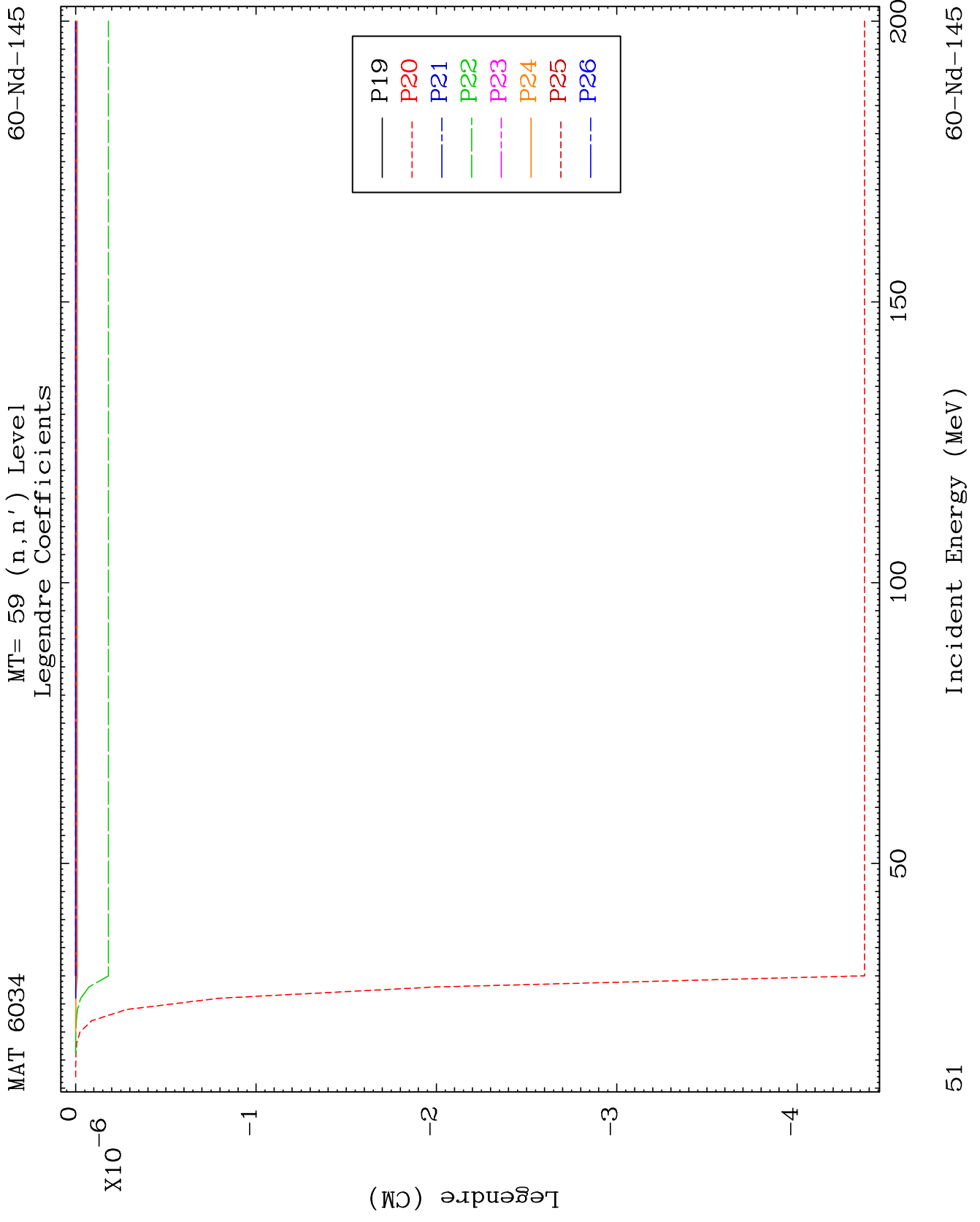
47

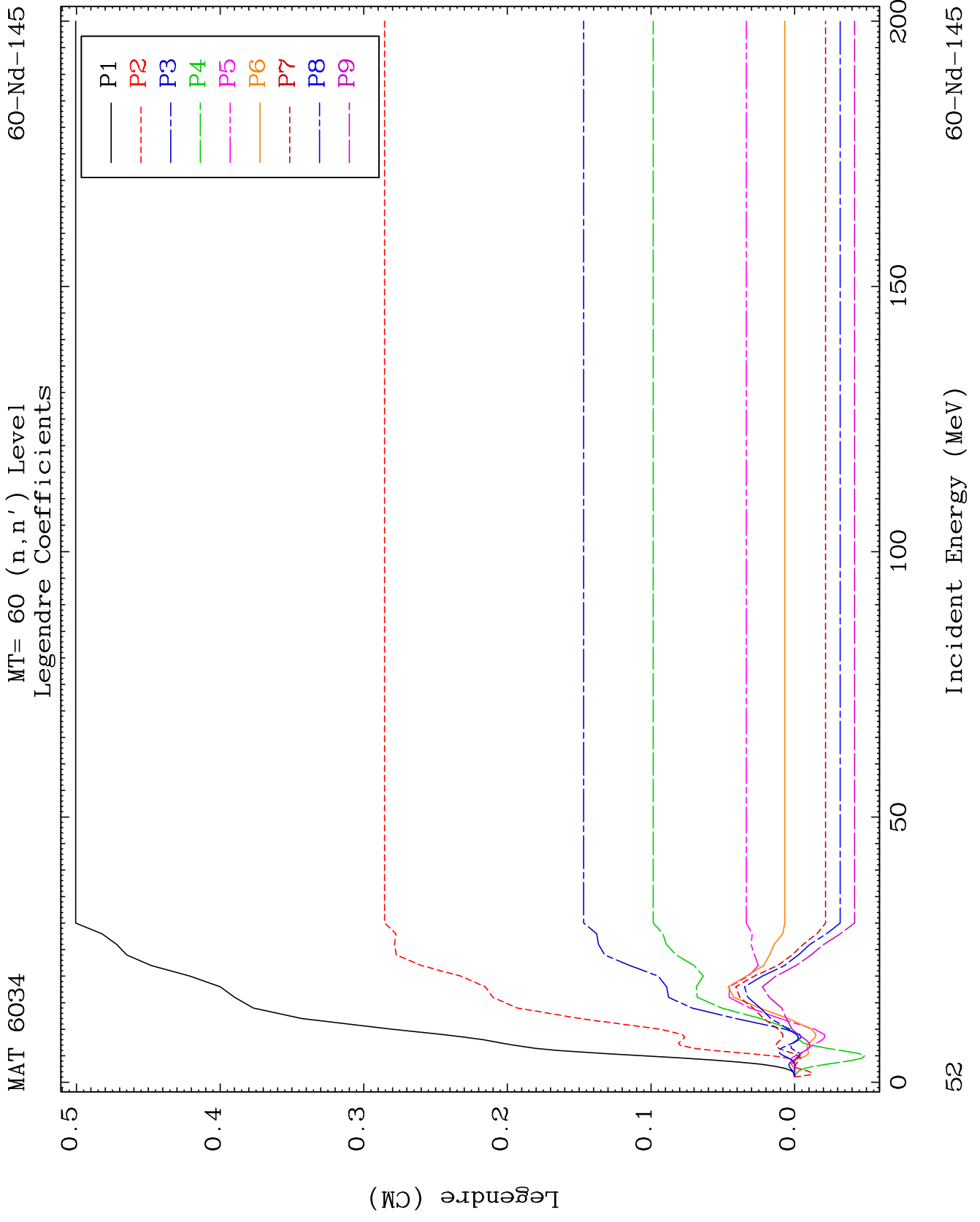
Incident Energy (MeV)

60-Nd-145





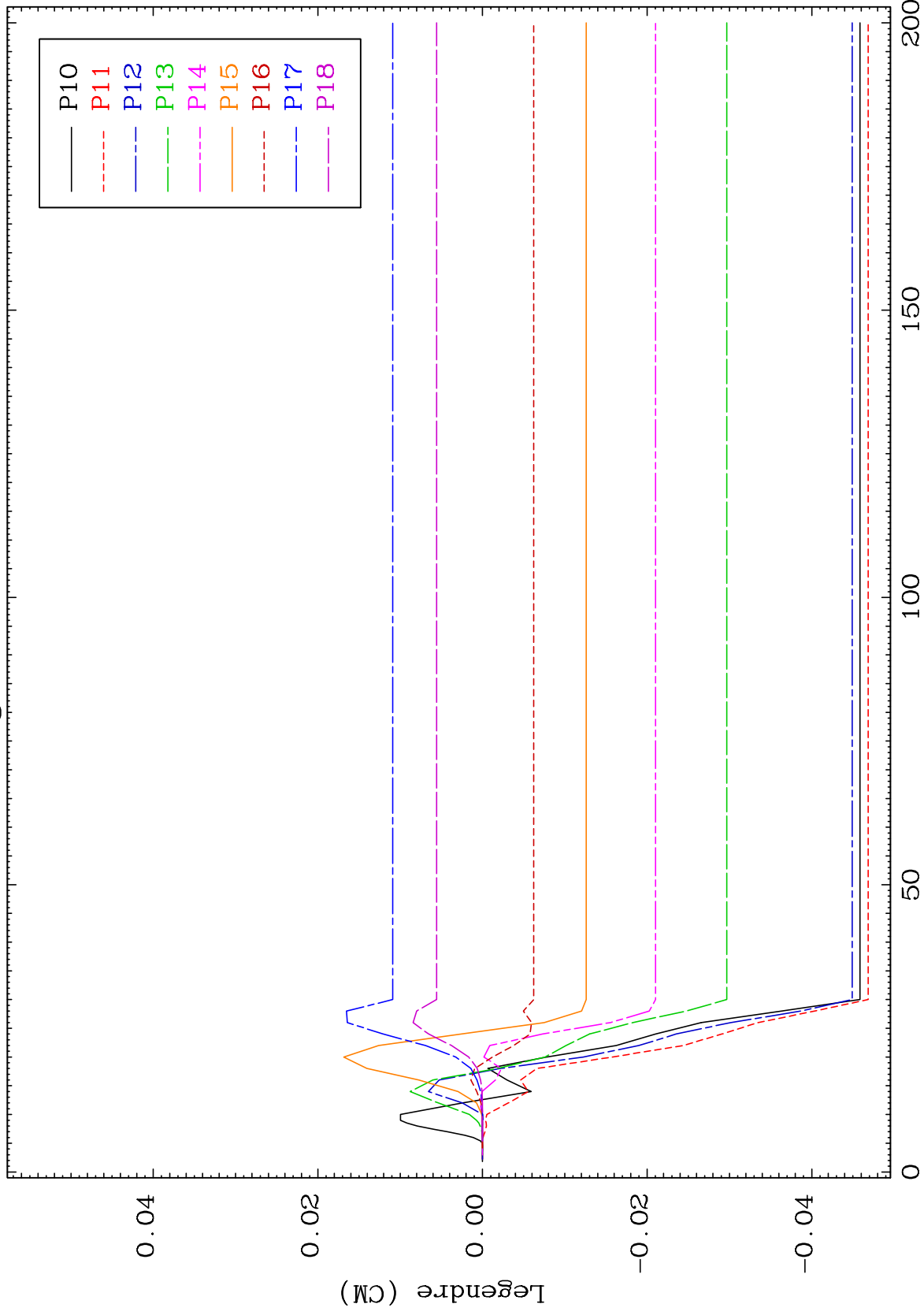




MAT 6034

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

60-Nd-145



53

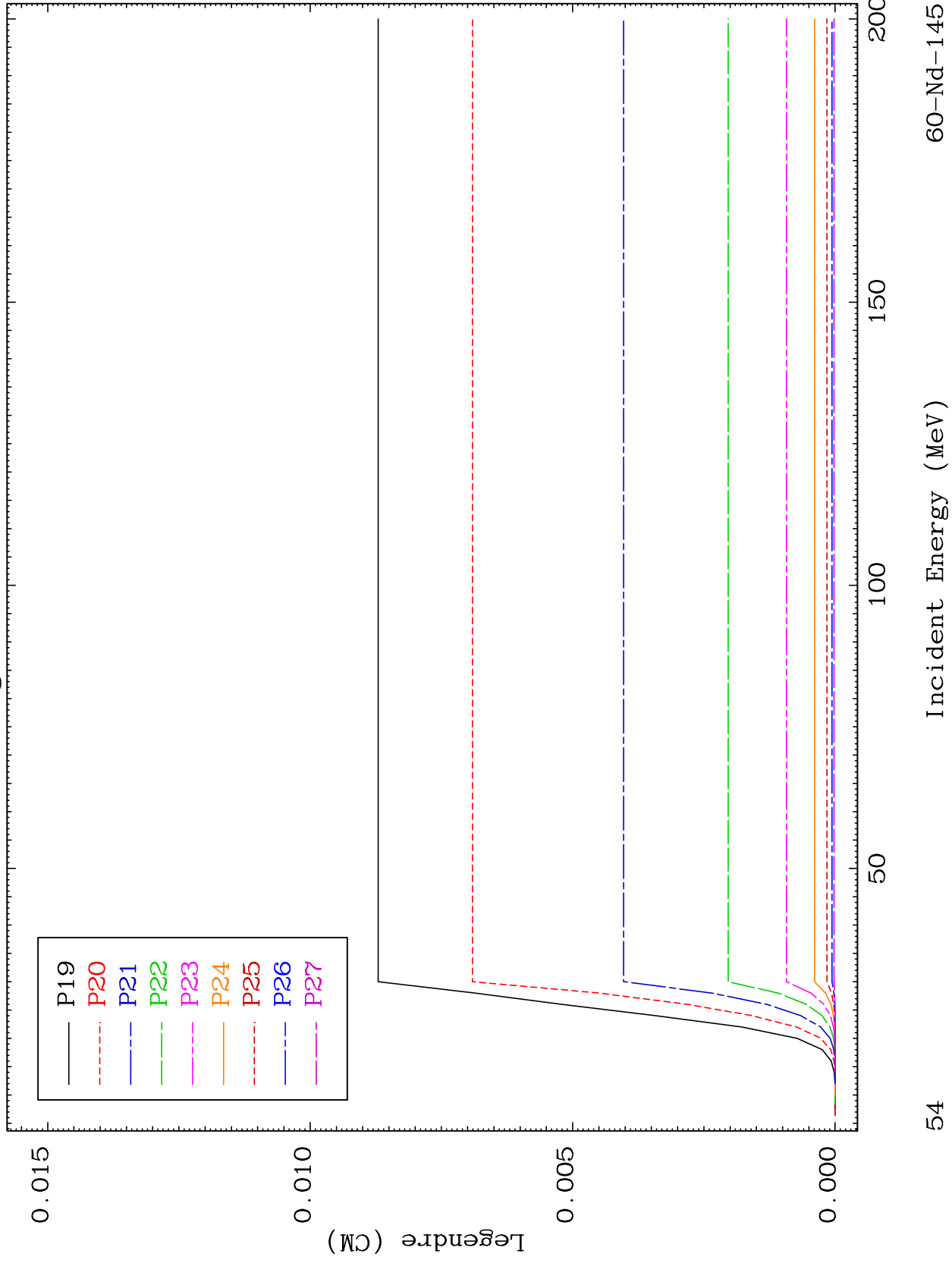
Incident Energy (MeV)

60-Nd-145

MAT 6034

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

60-Nd-145



54

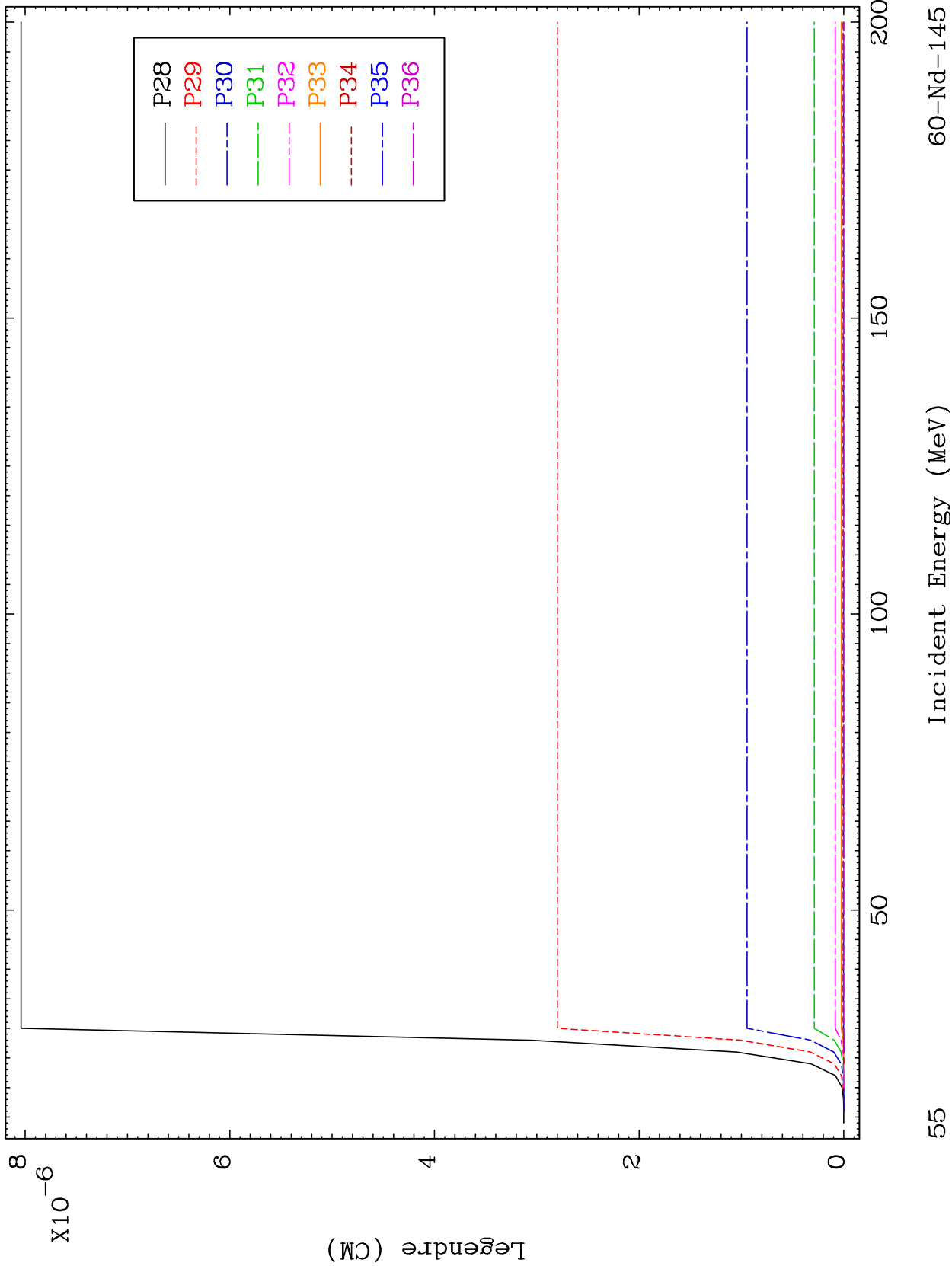
Incident Energy (MeV)

60-Nd-145

MAT 6034

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

60-Nd-145



55

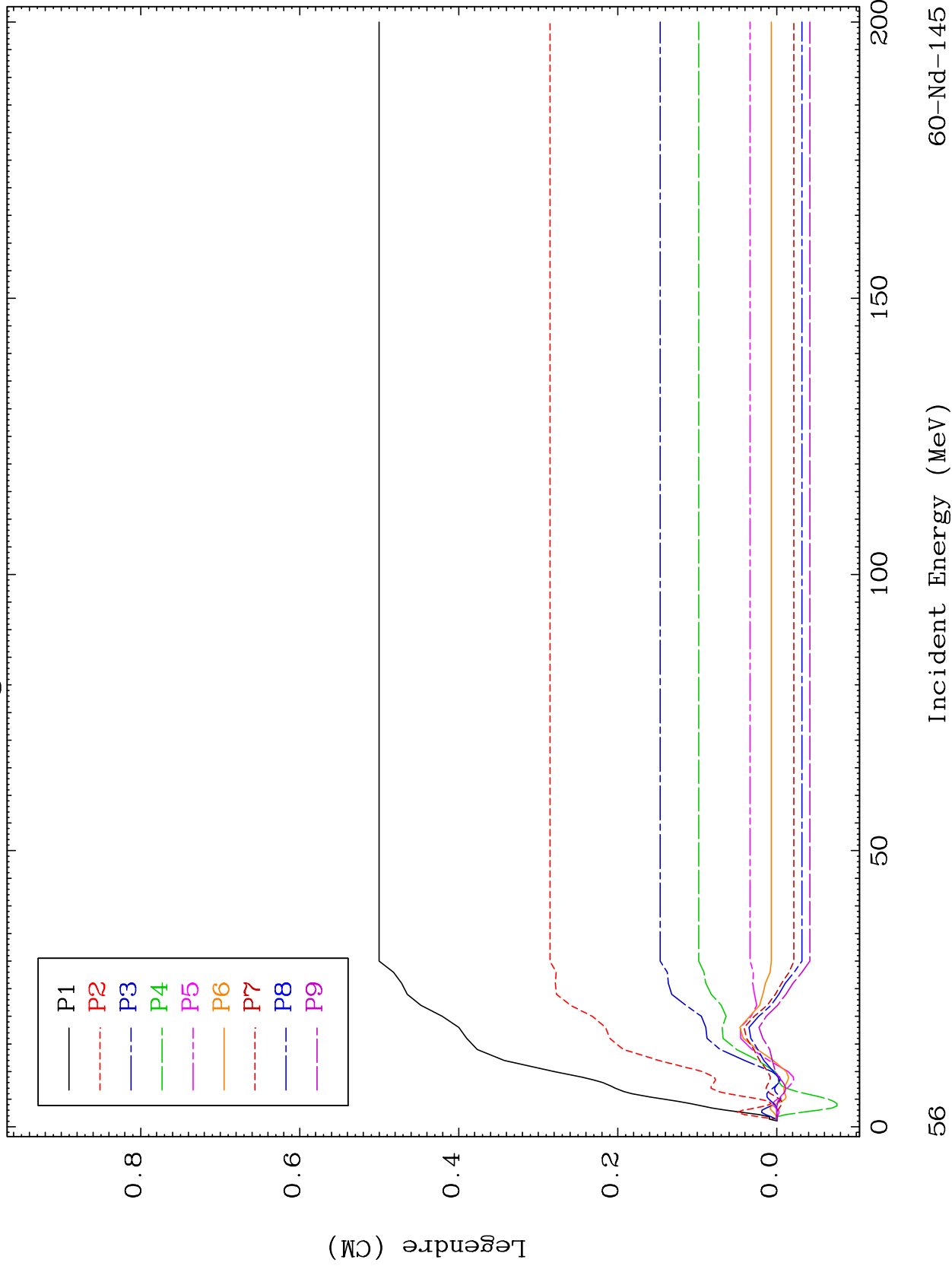
Incident Energy (MeV)

60-Nd-145

MAT 6034

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

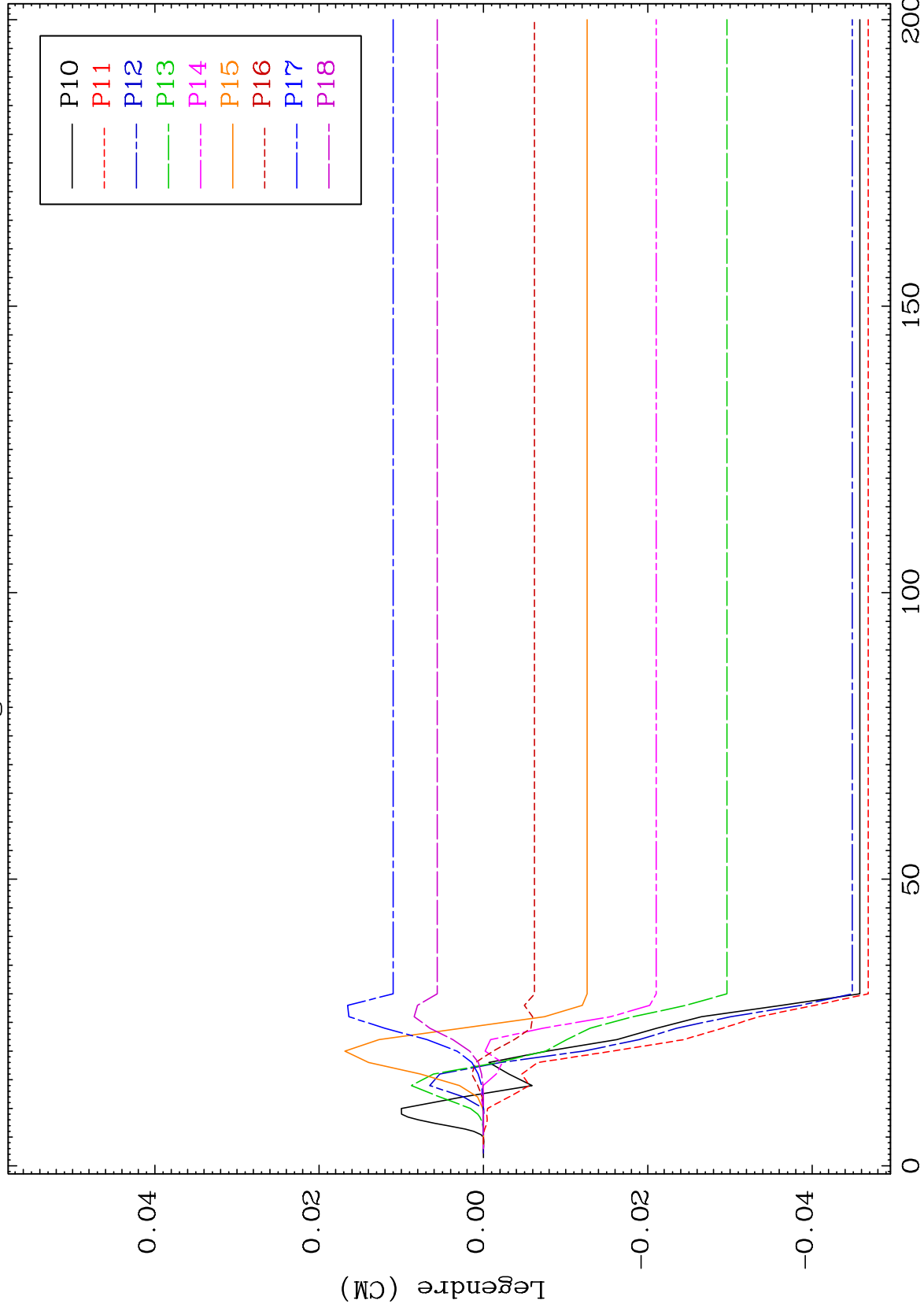
60-Nd-145



MAT 6034

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

60-Nd-145



57

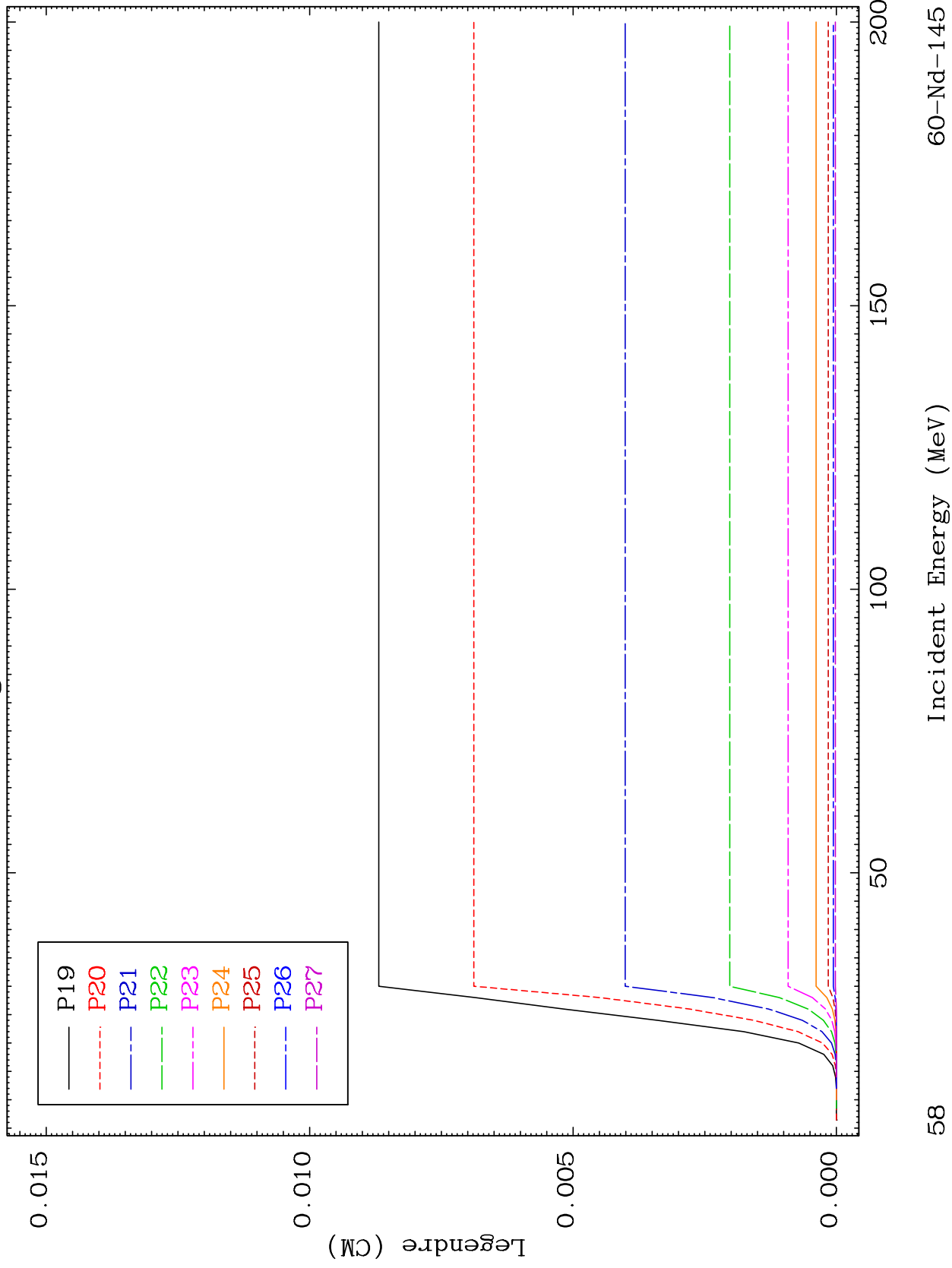
Incident Energy (MeV)

60-Nd-145

MAT 6034

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

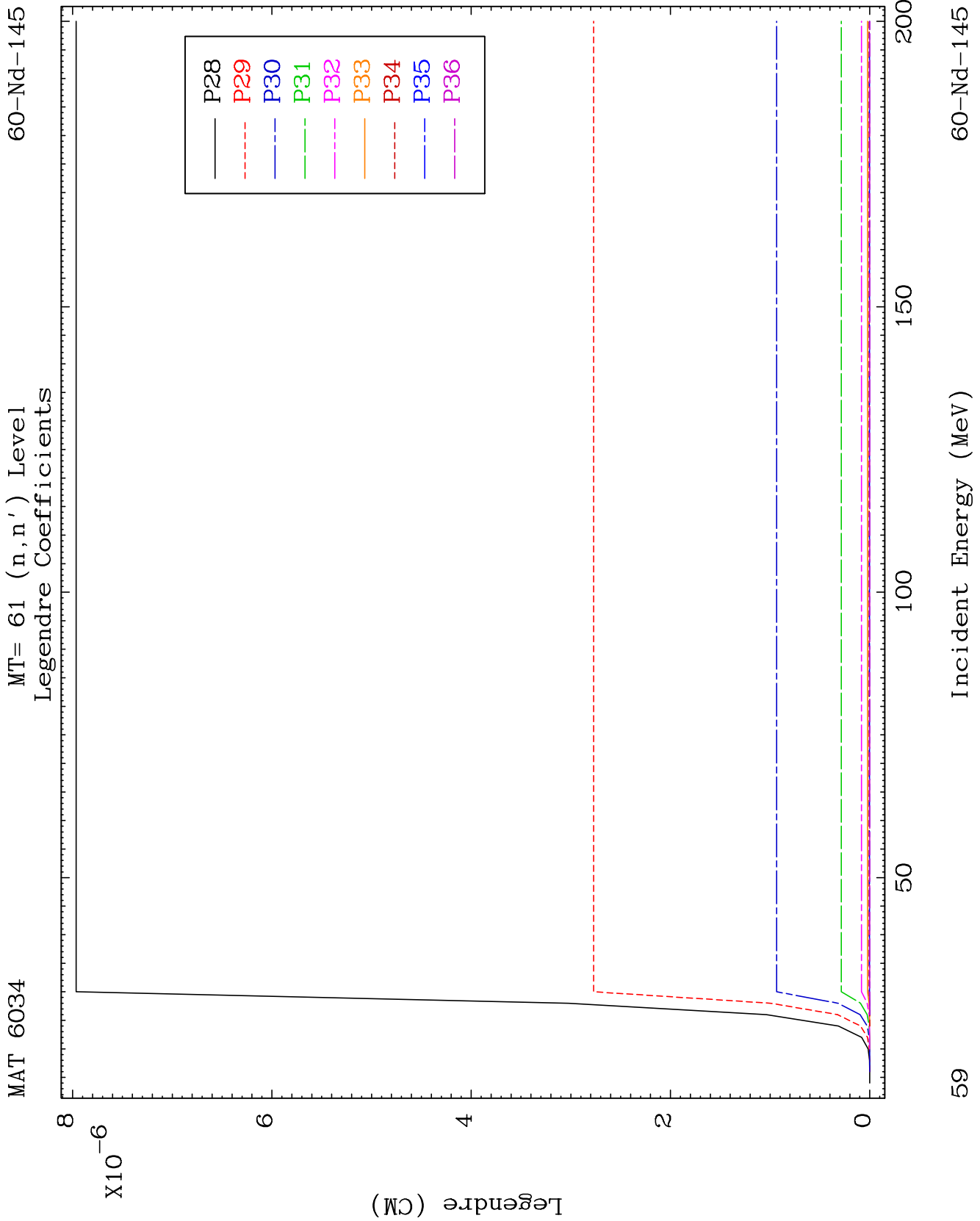
60-Nd-145

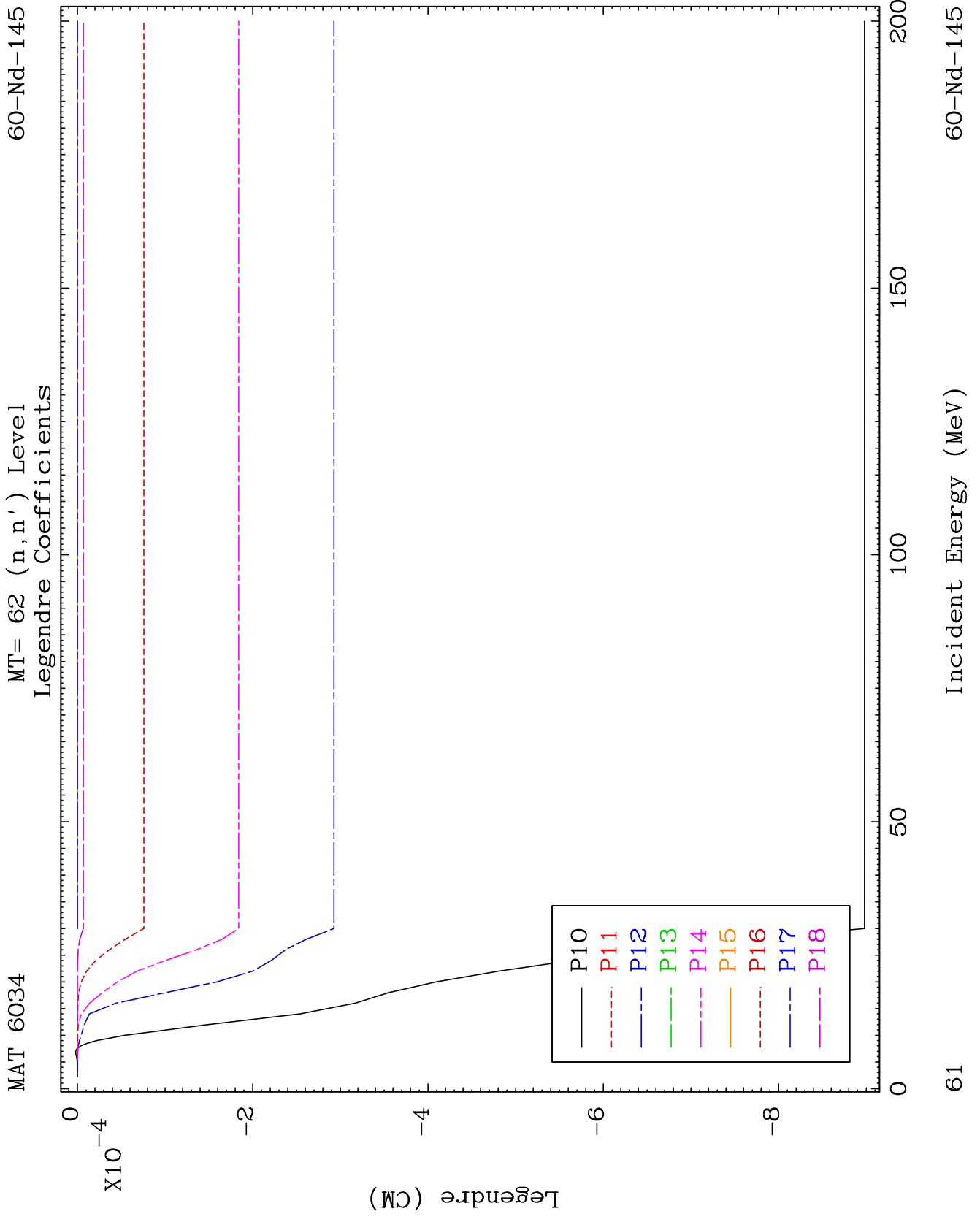


58

Incident Energy (MeV)

60-Nd-145

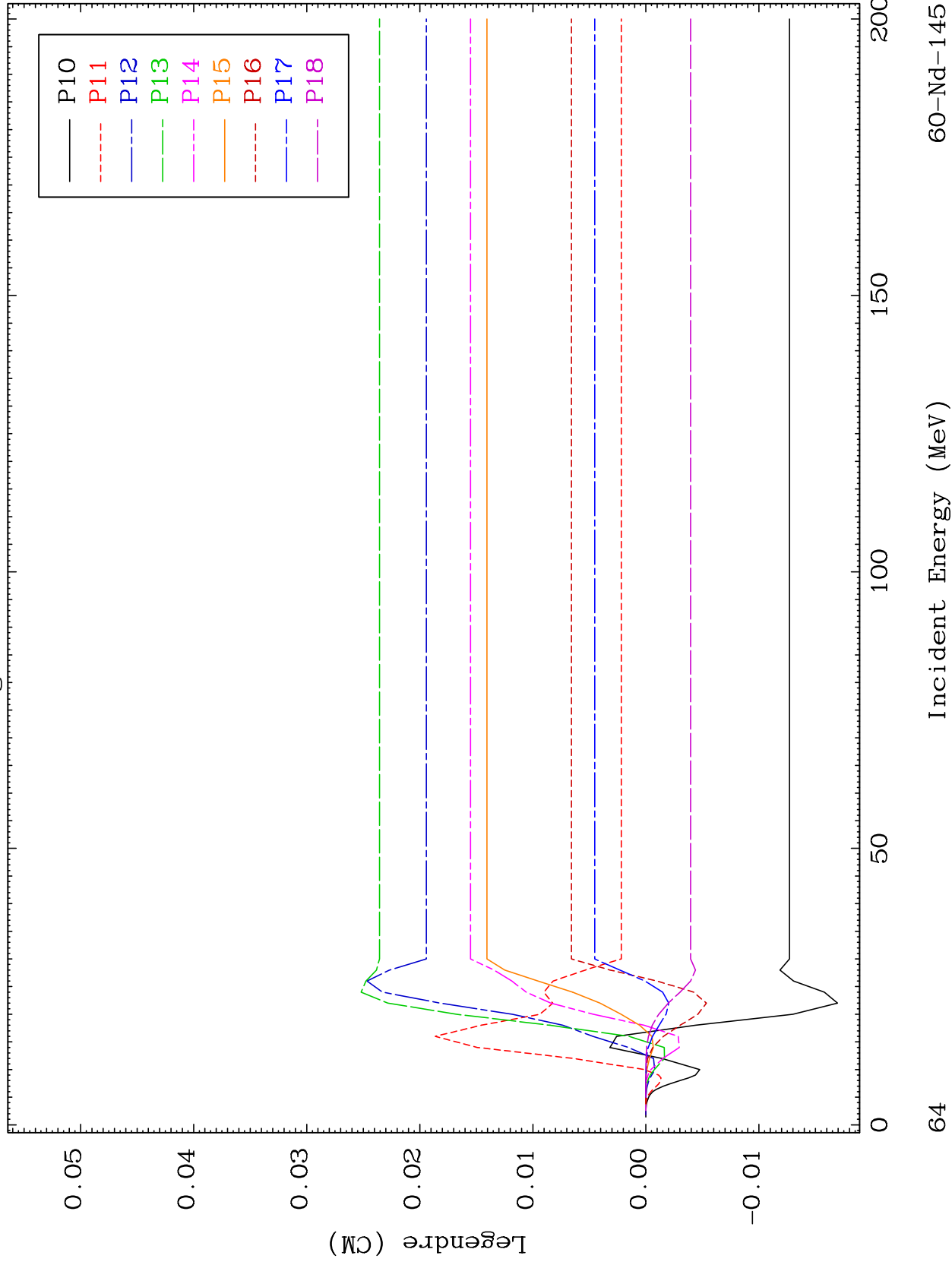




MAT 6034

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

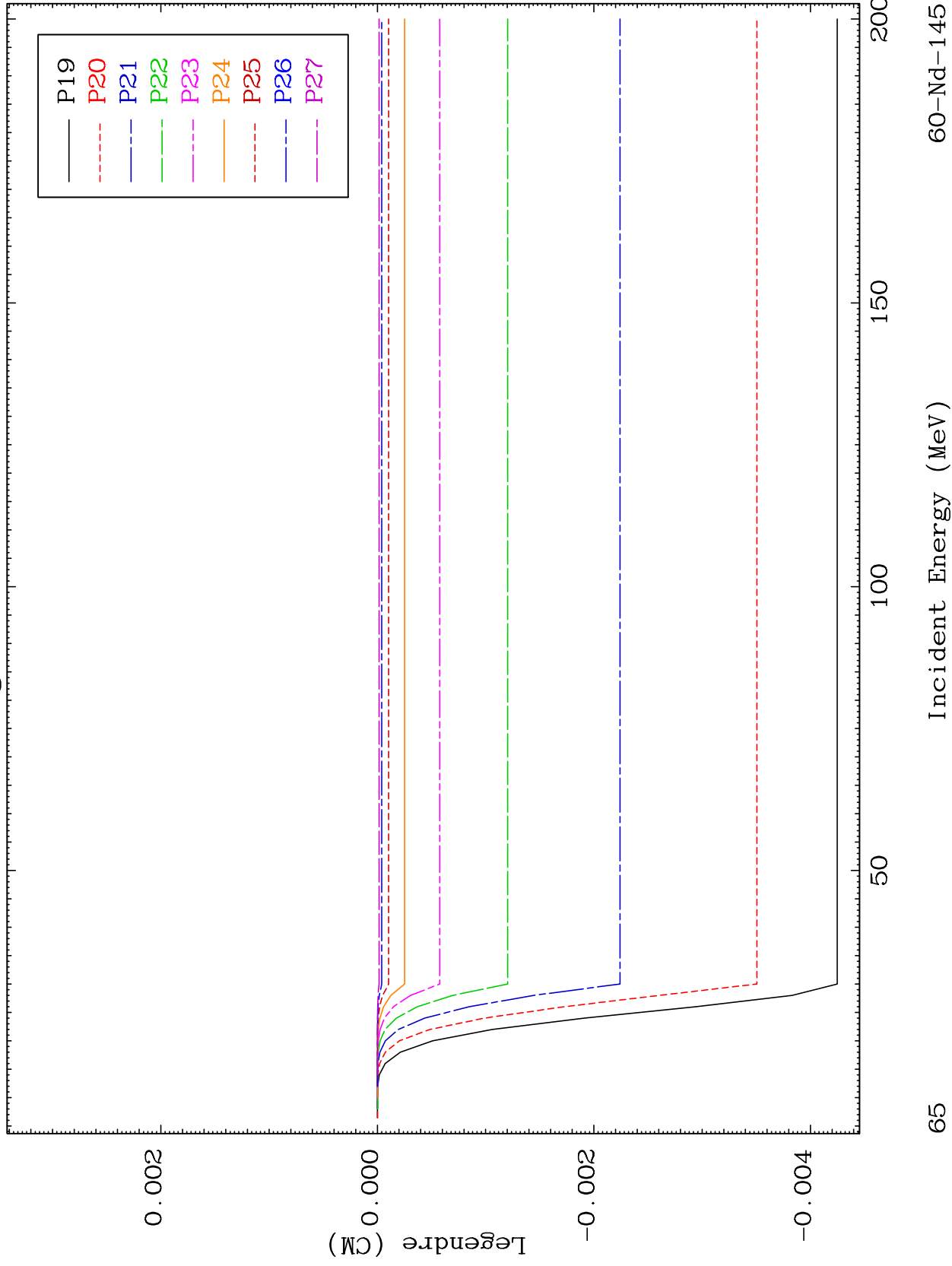
60-Nd-145



MAT 6034

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

60-Nd-145



65

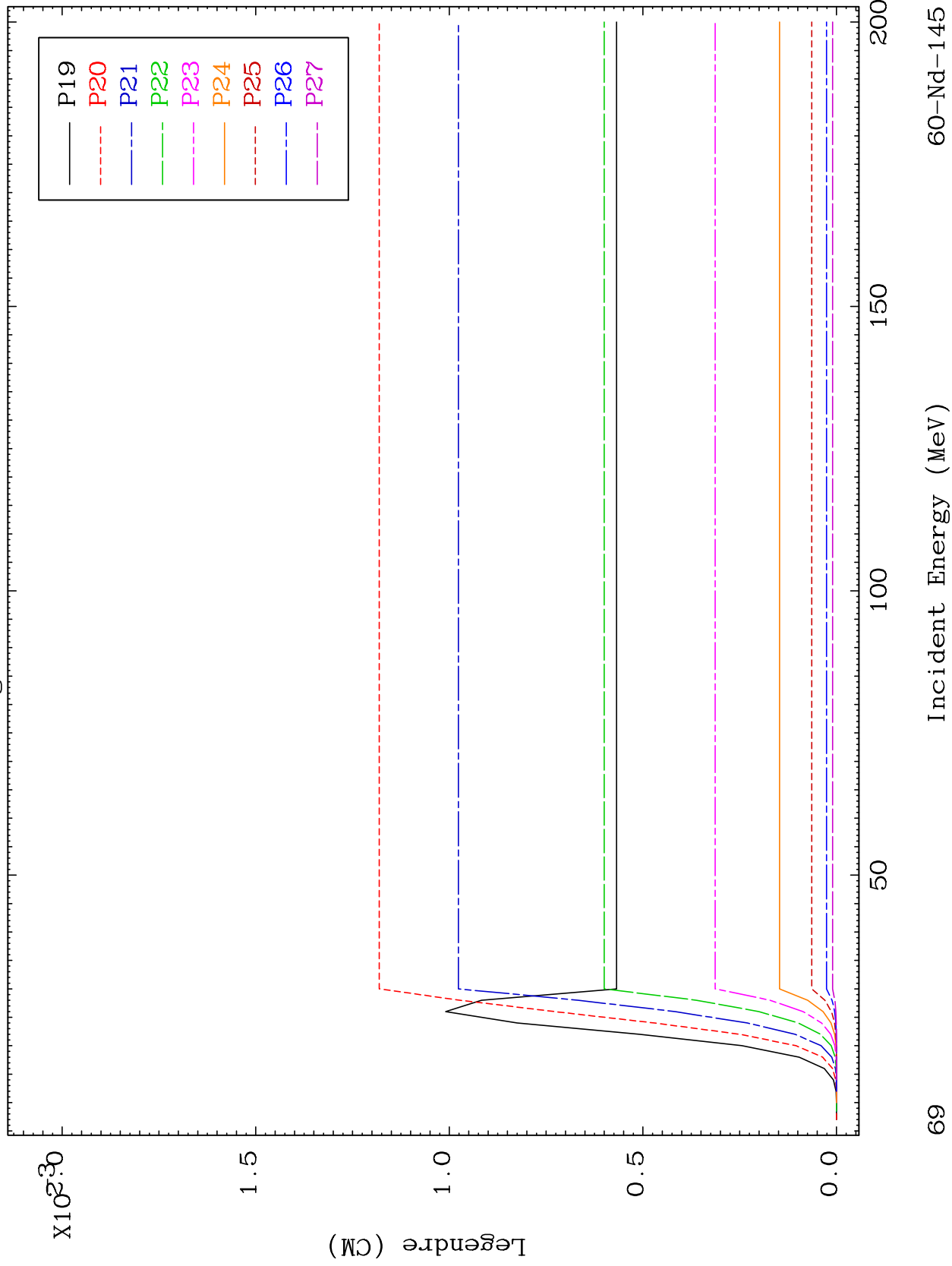
Incident Energy (MeV)

60-Nd-145

MAT 6034

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

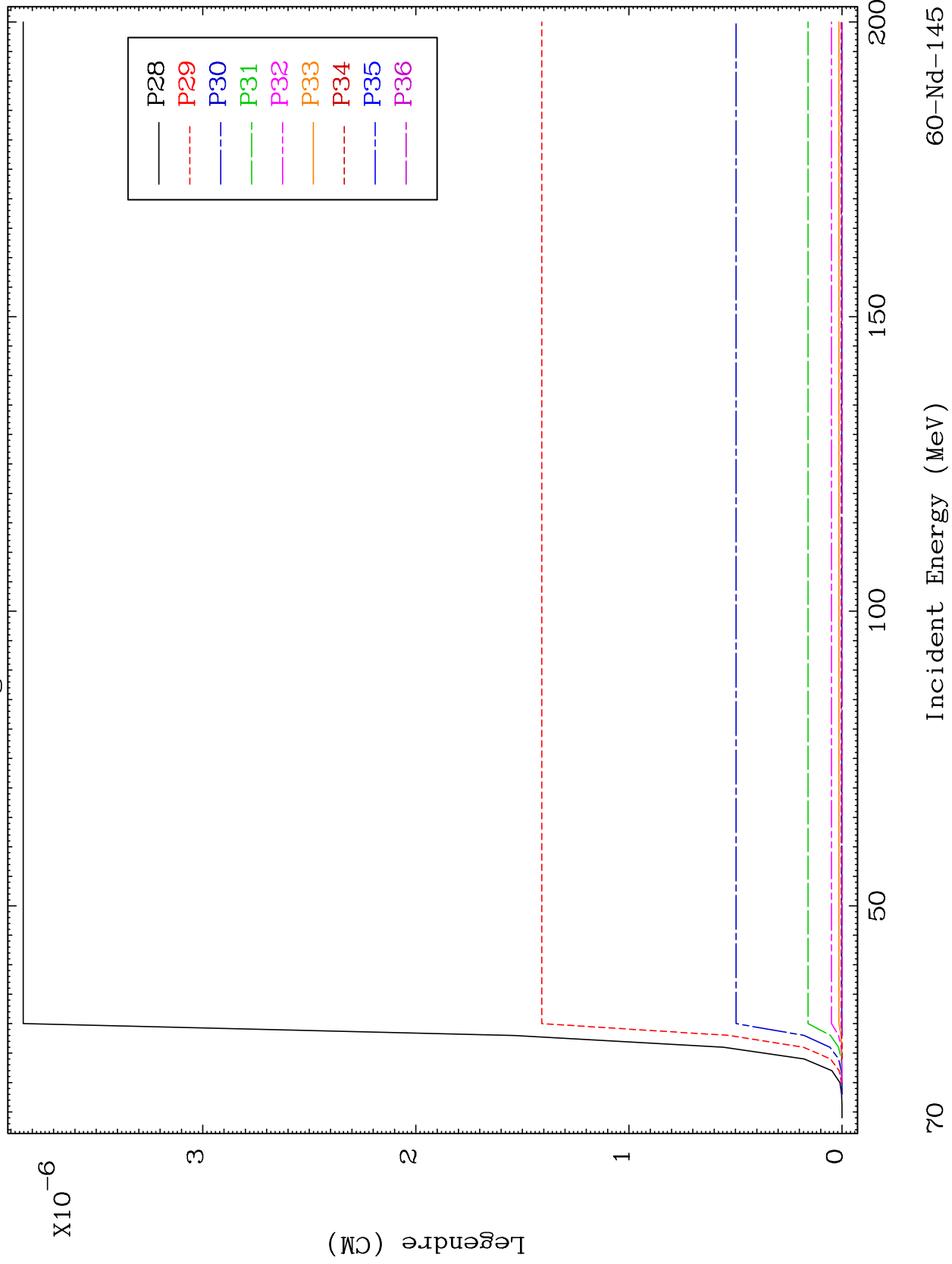
60-Nd-145



MAT 6034

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

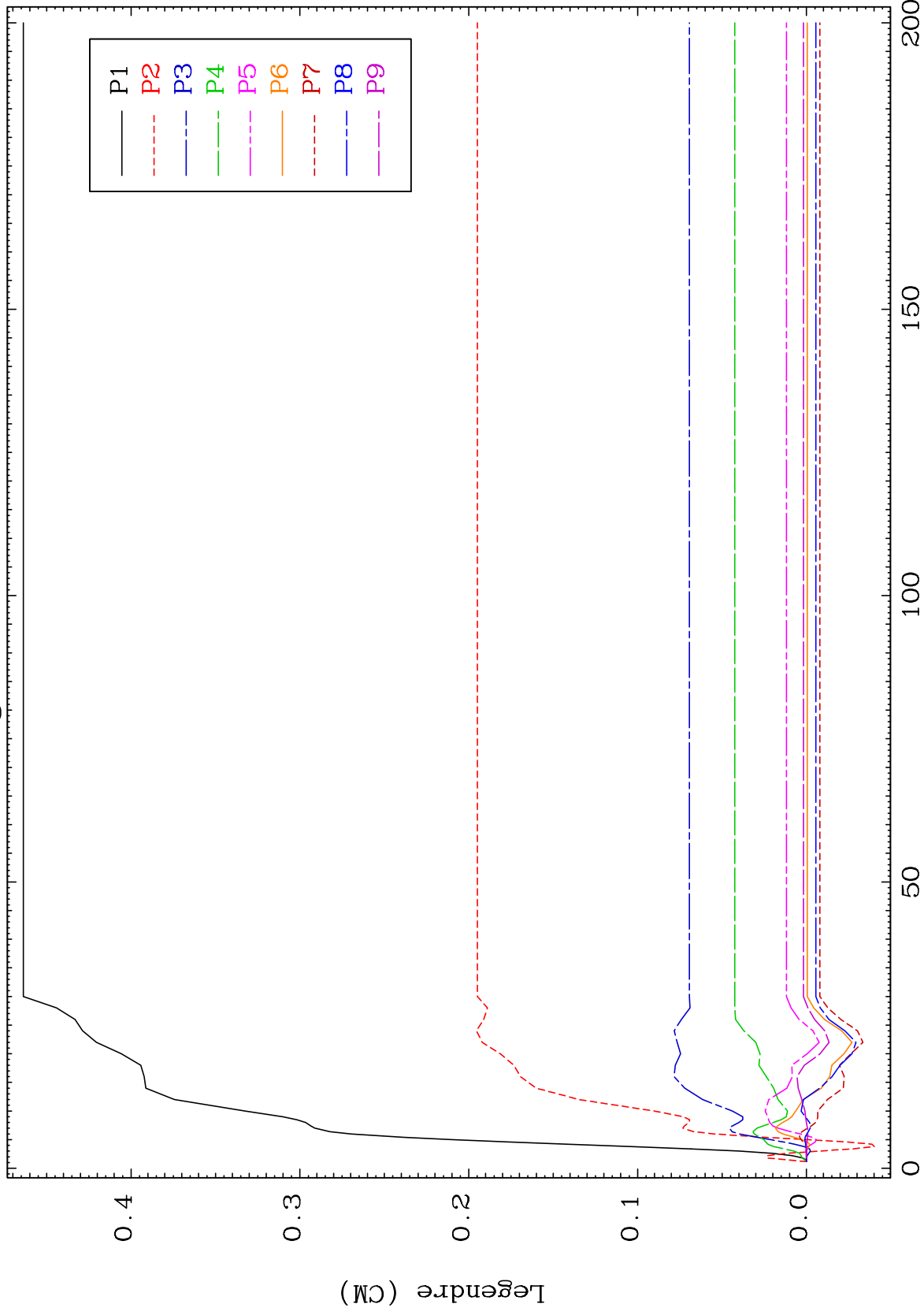
60-Nd-145



MAT 6034

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

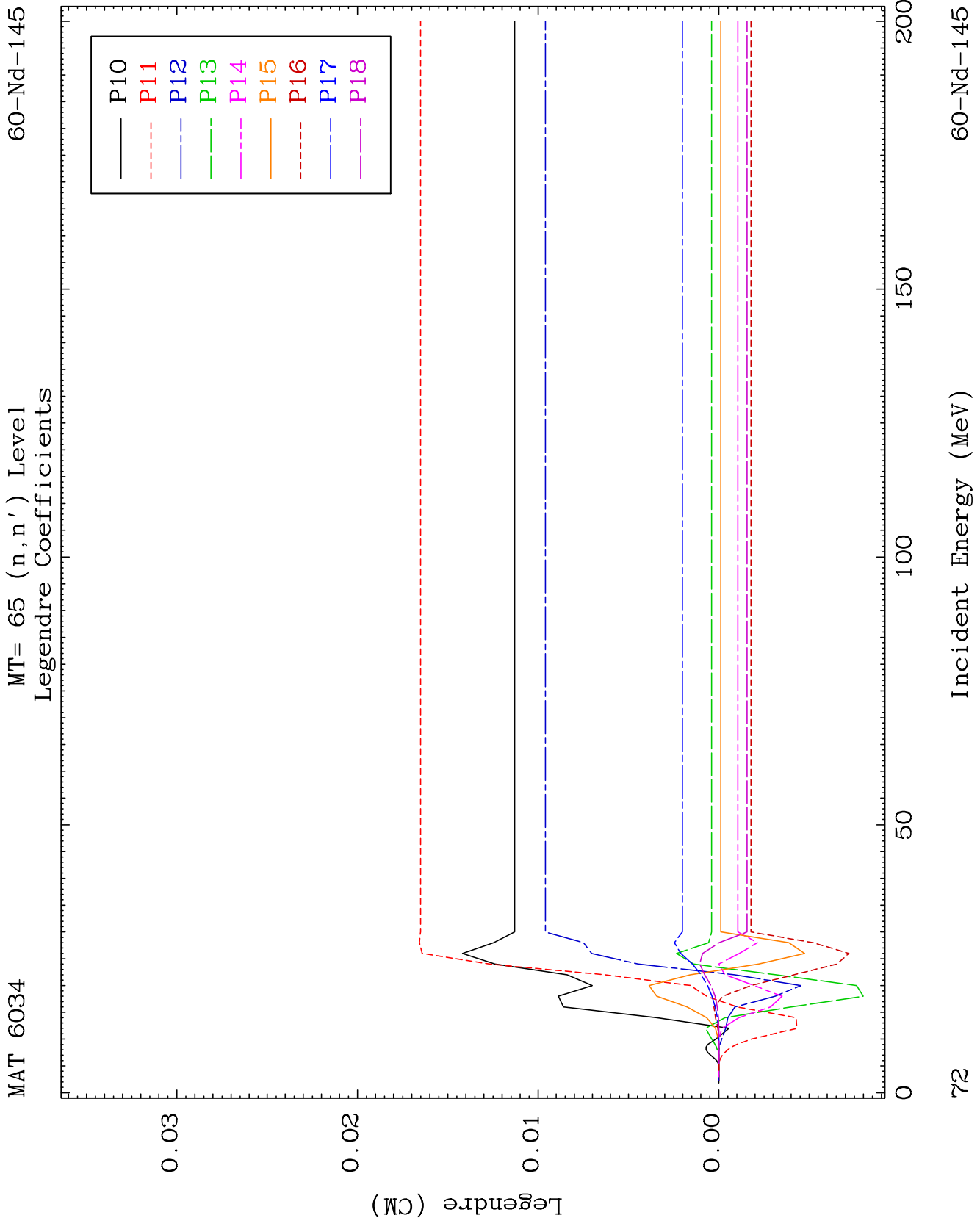
60-Nd-145



71

Incident Energy (MeV)

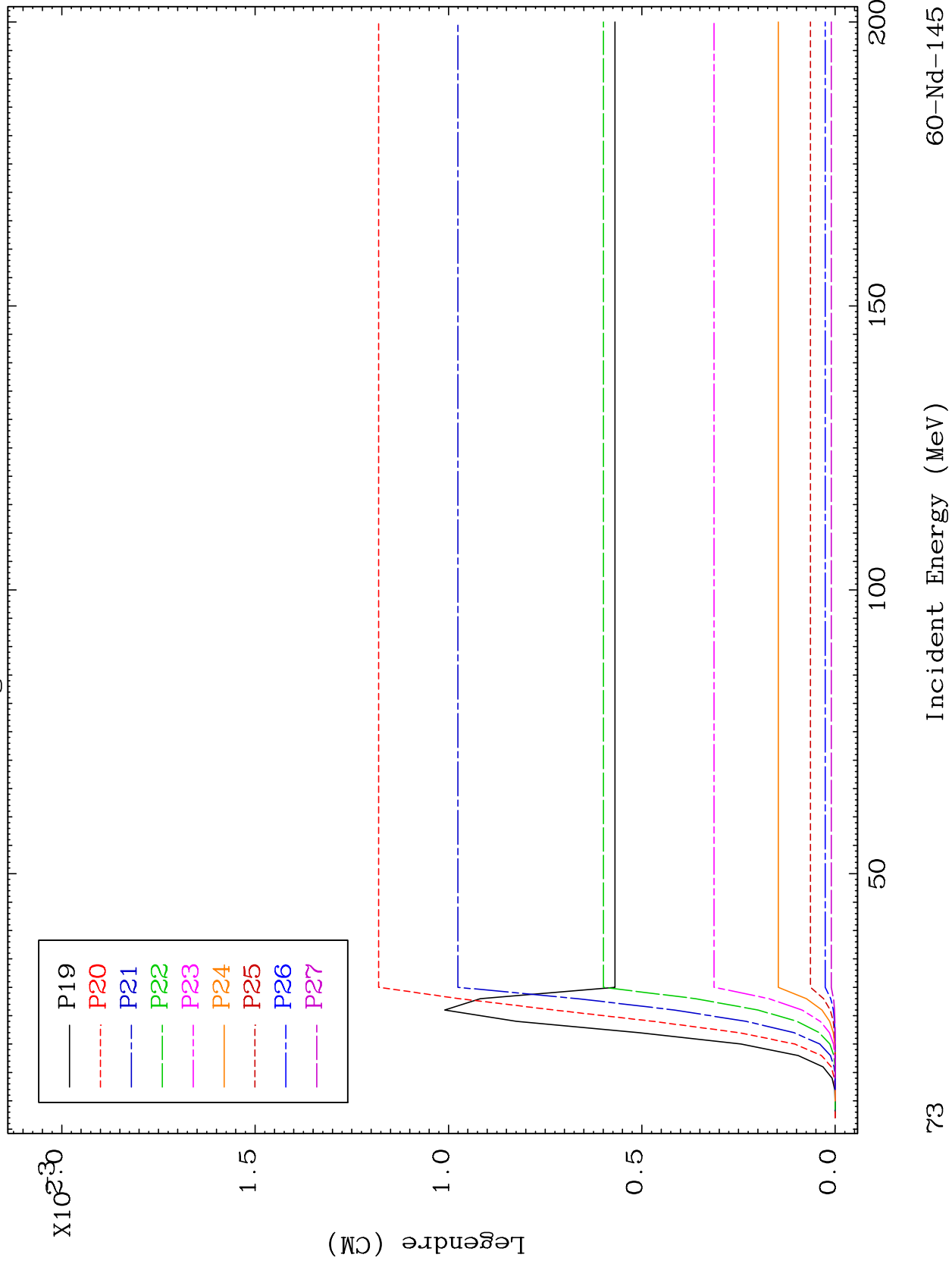
60-Nd-145



MAT 6034

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

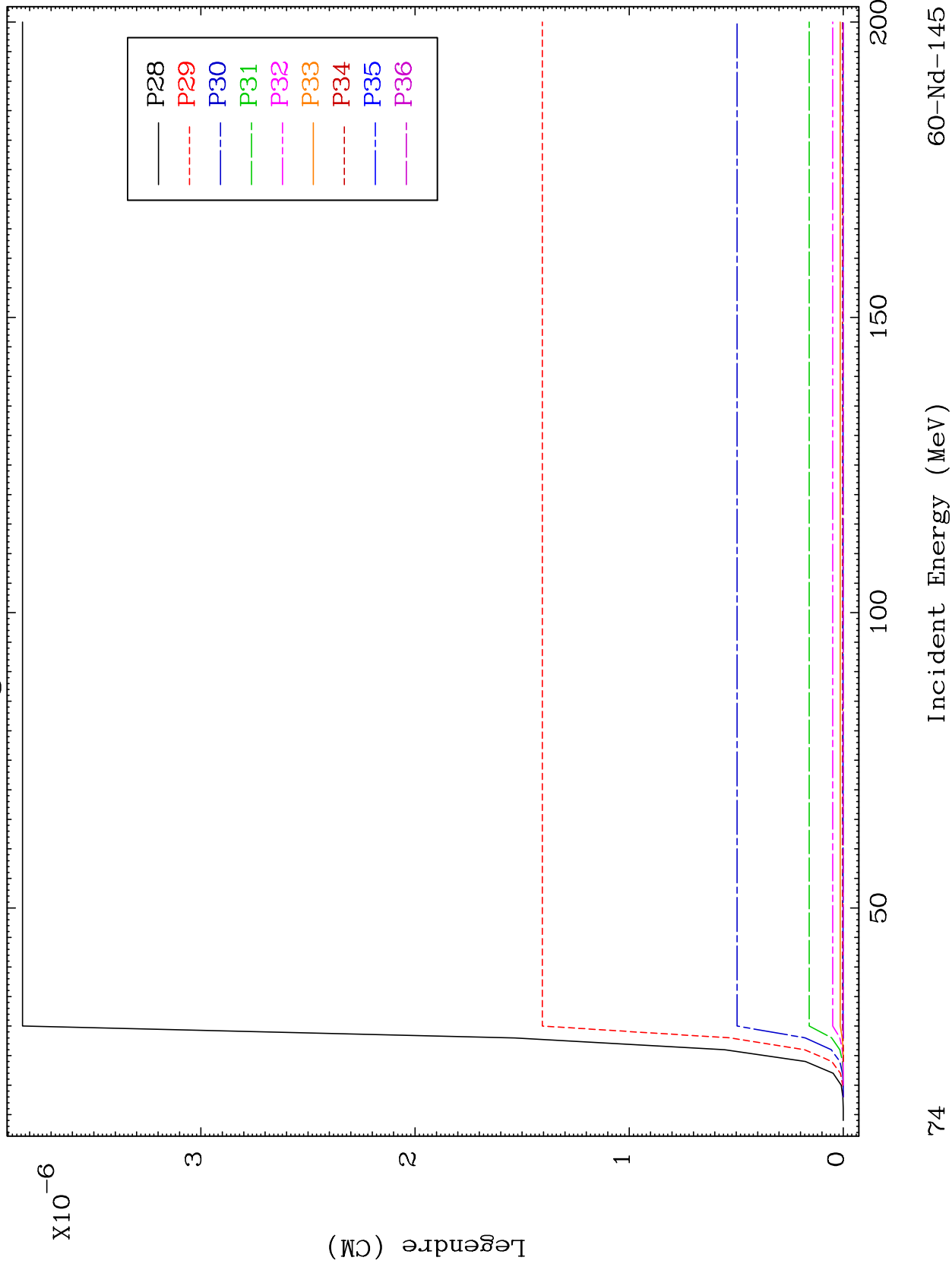
60-Nd-145



MAT 6034

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

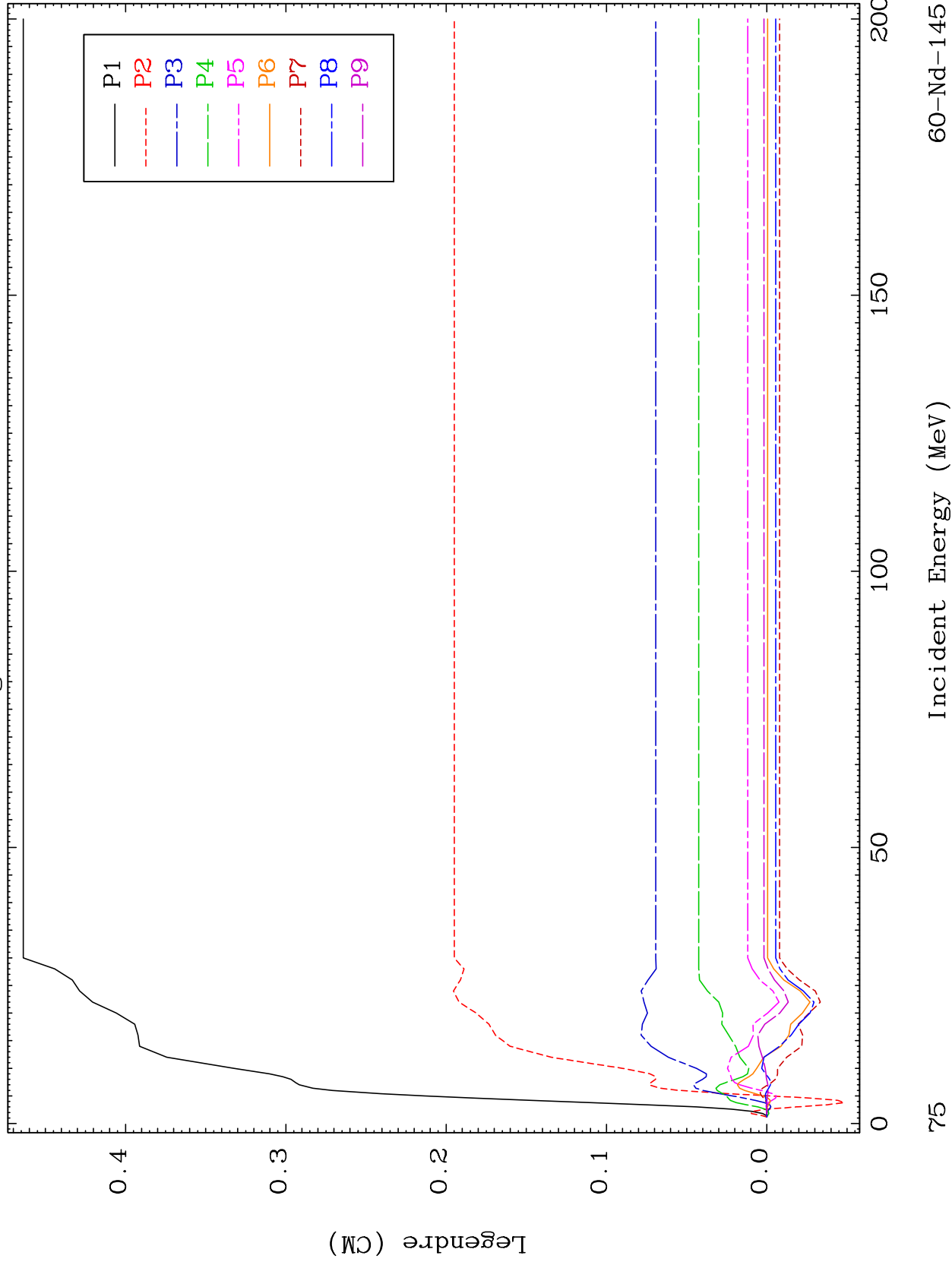
60-Nd-145



MAT 6034

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

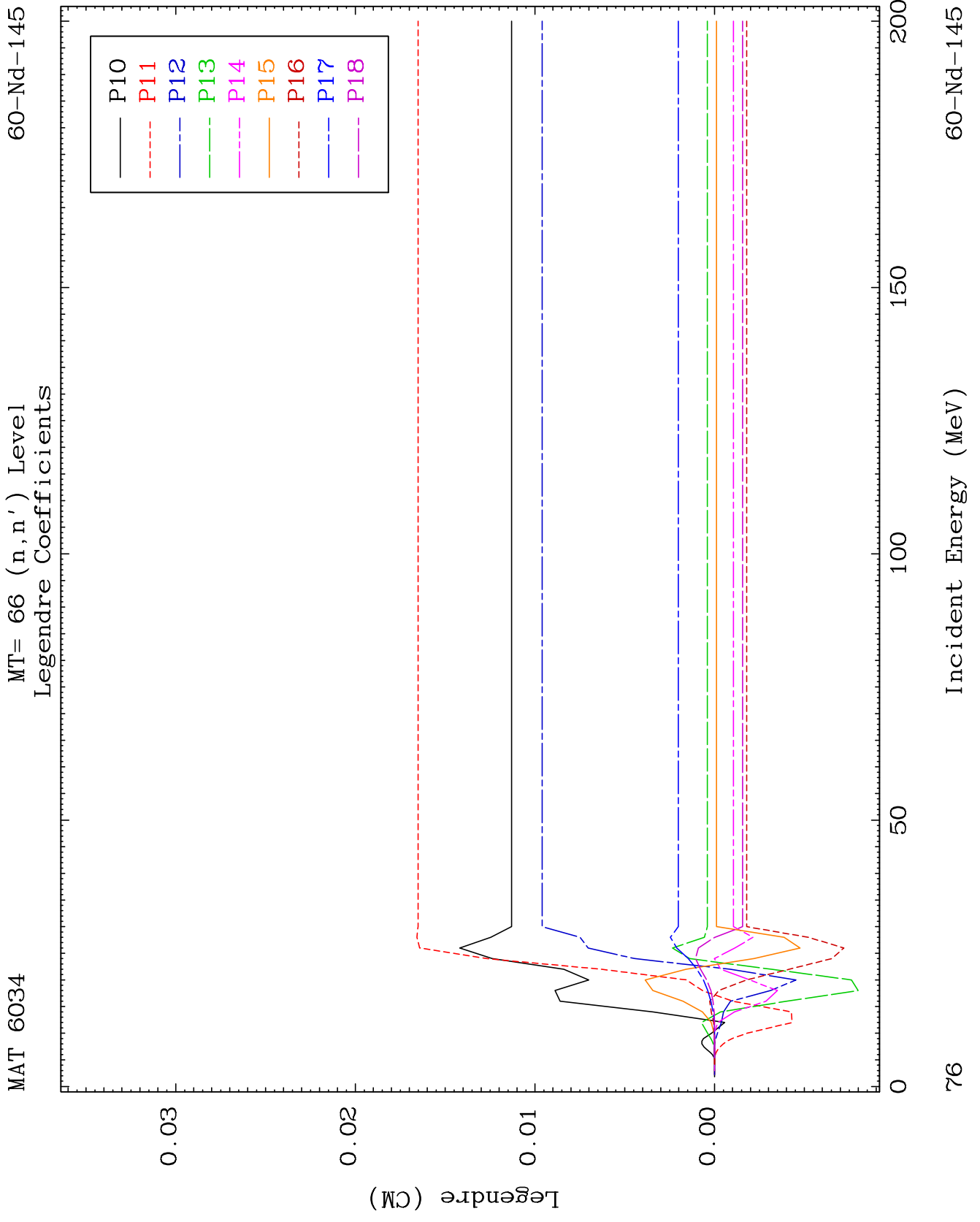
60-Nd-145



75

Incident Energy (MeV)

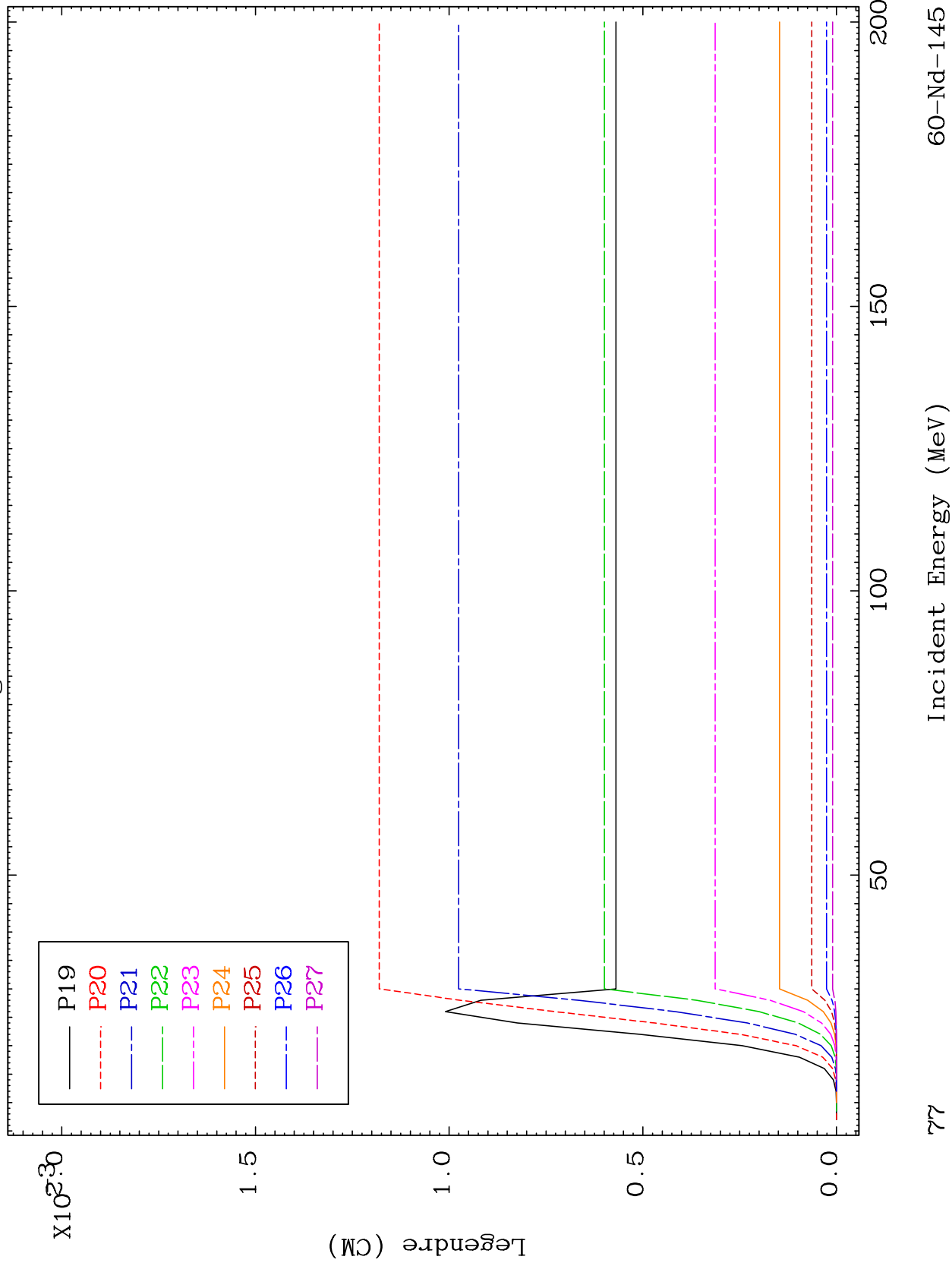
60-Nd-145



MAT 6034

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

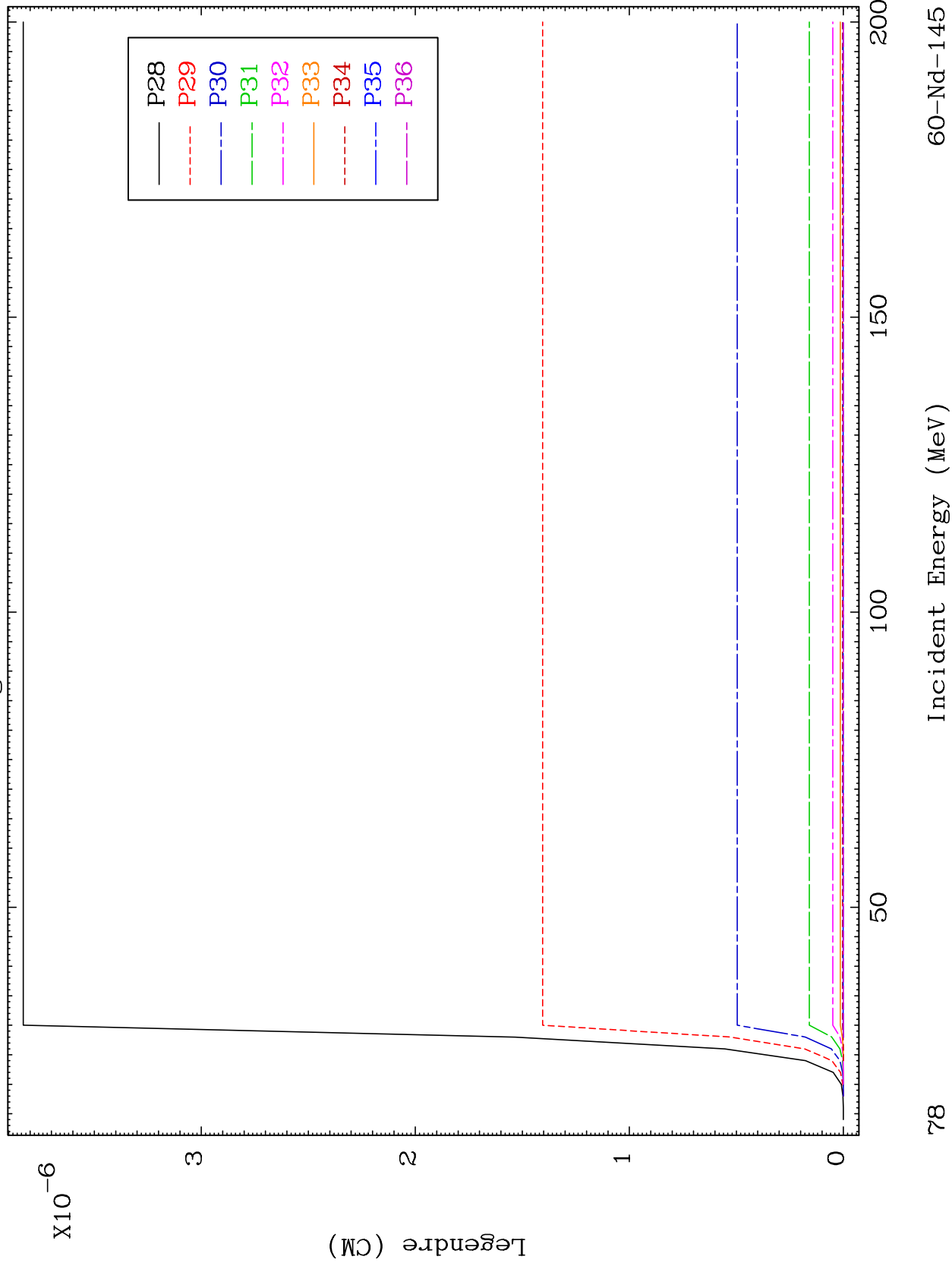
60-Nd-145



MAT 6034

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

60-Nd-145



78

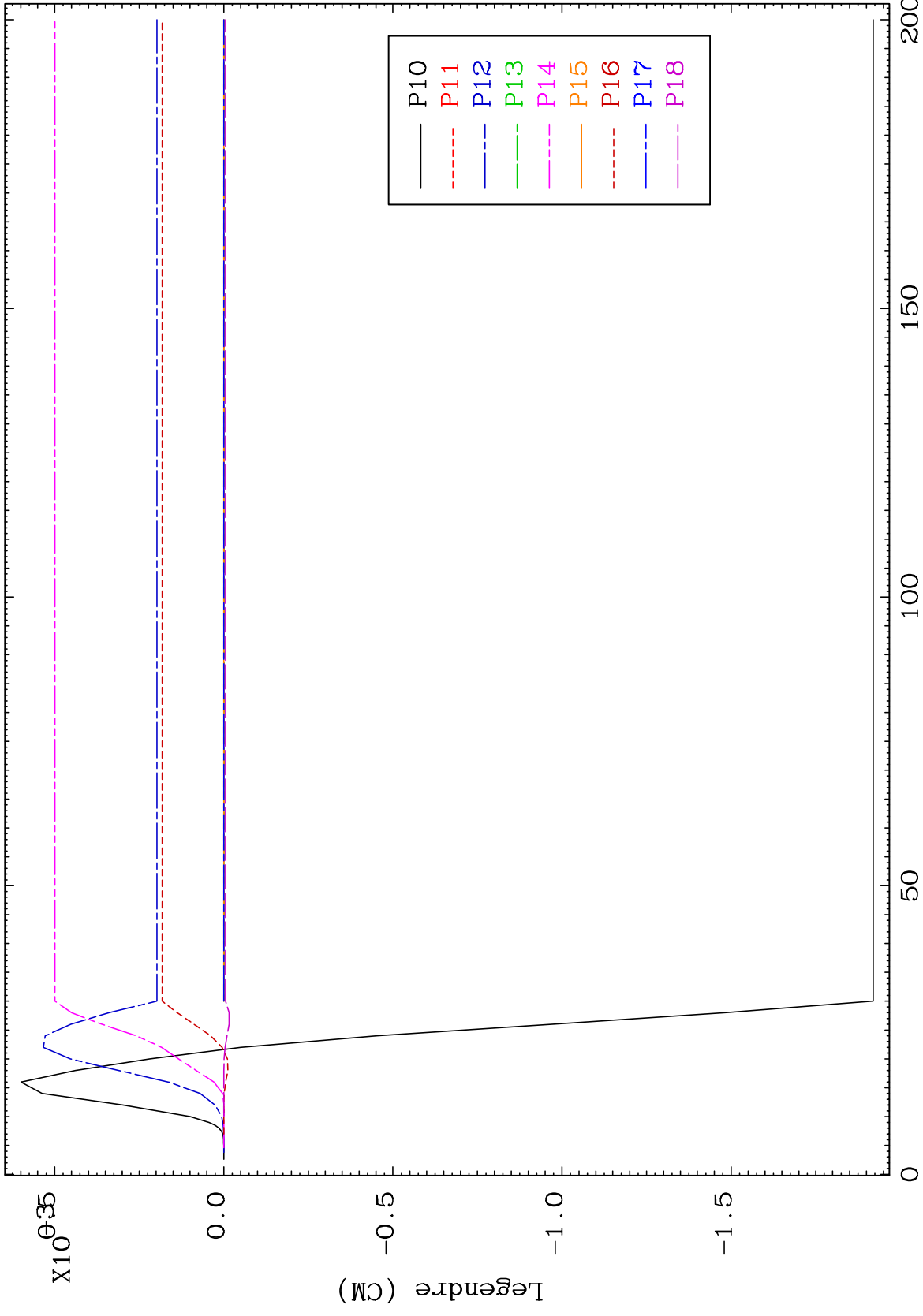
Incident Energy (MeV)

60-Nd-145

MAT 6034

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

60-Nd-145



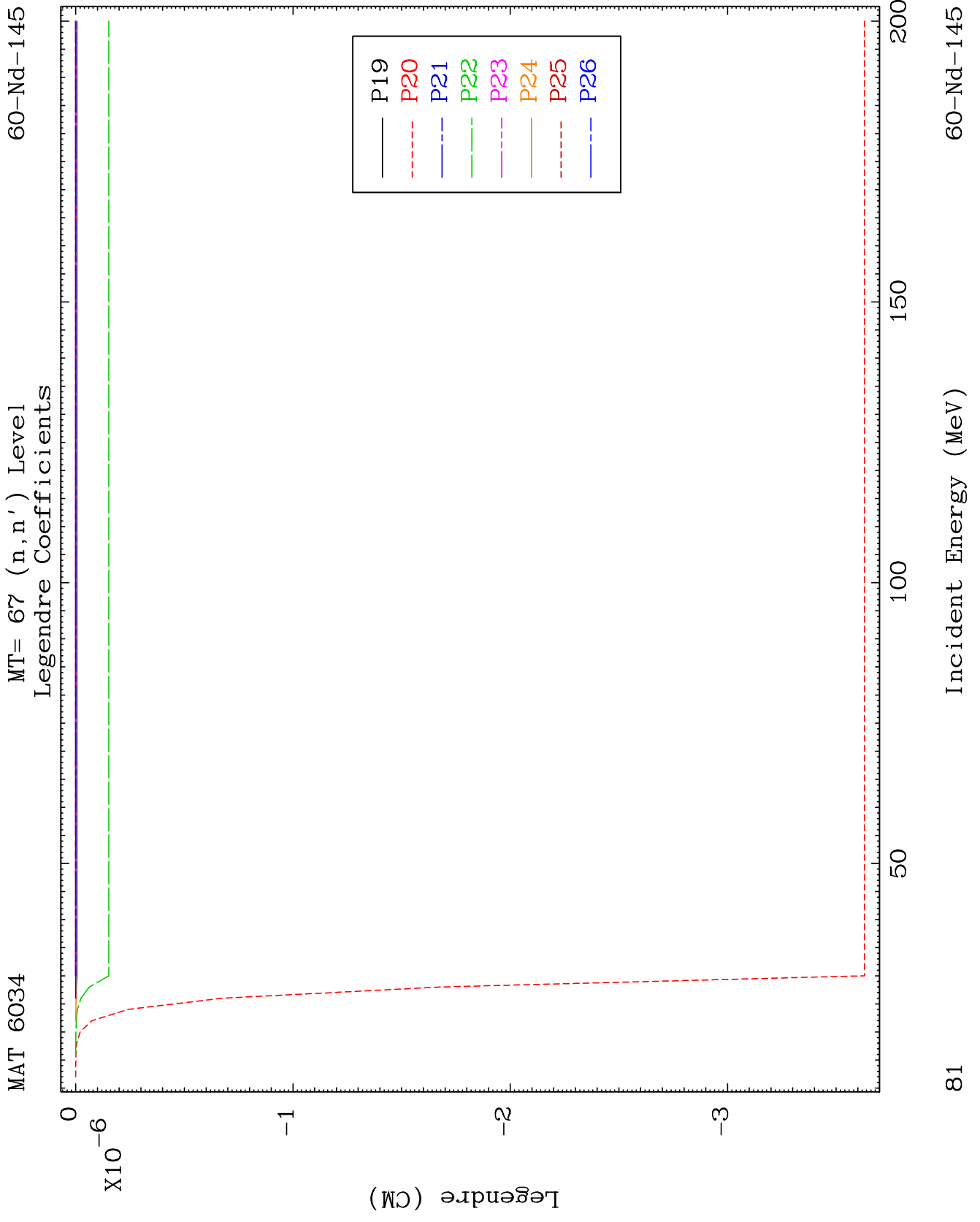
80

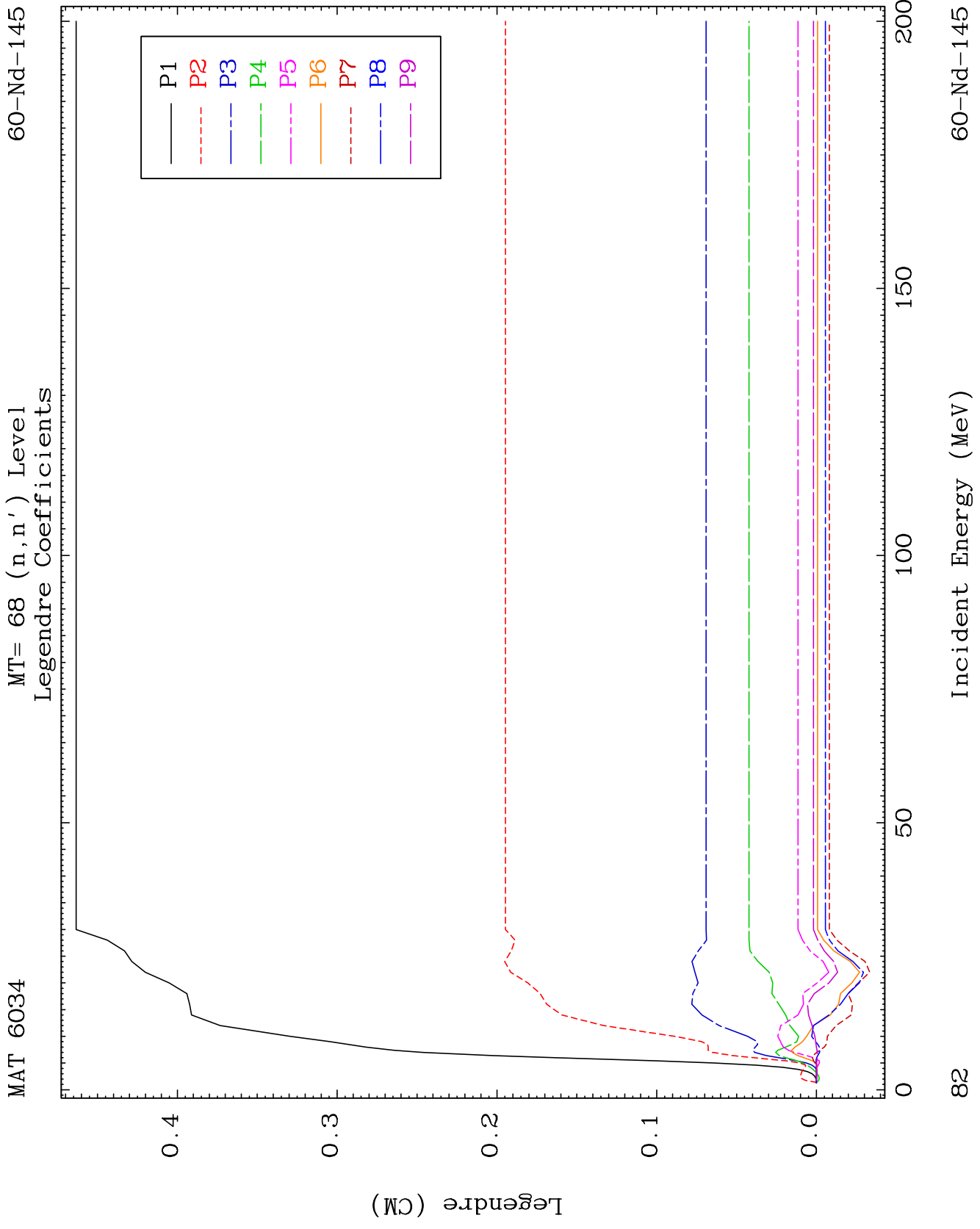
Incident Energy (MeV)

150

200

60-Nd-145

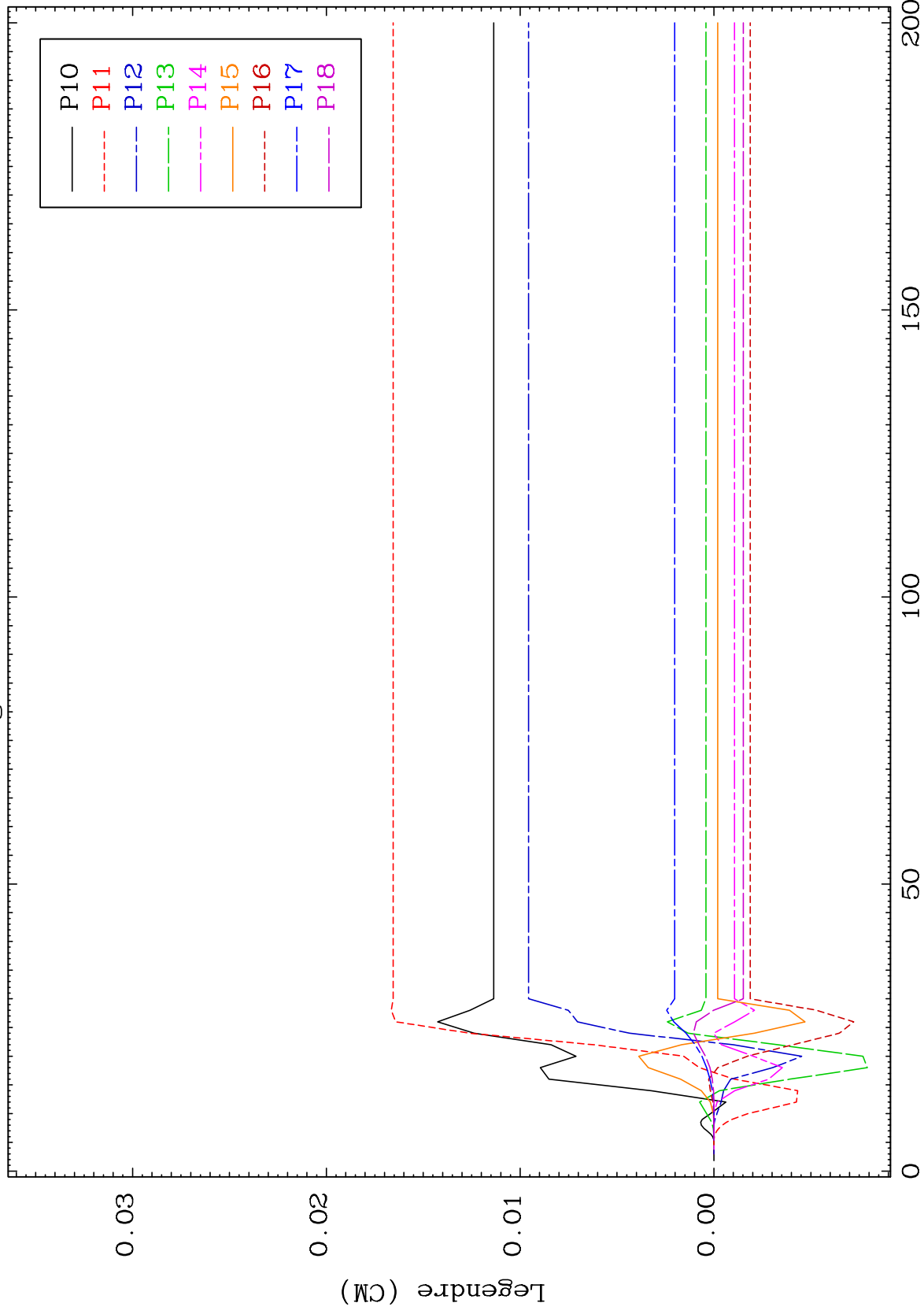




MAT 6034

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

60-Nd-145



83

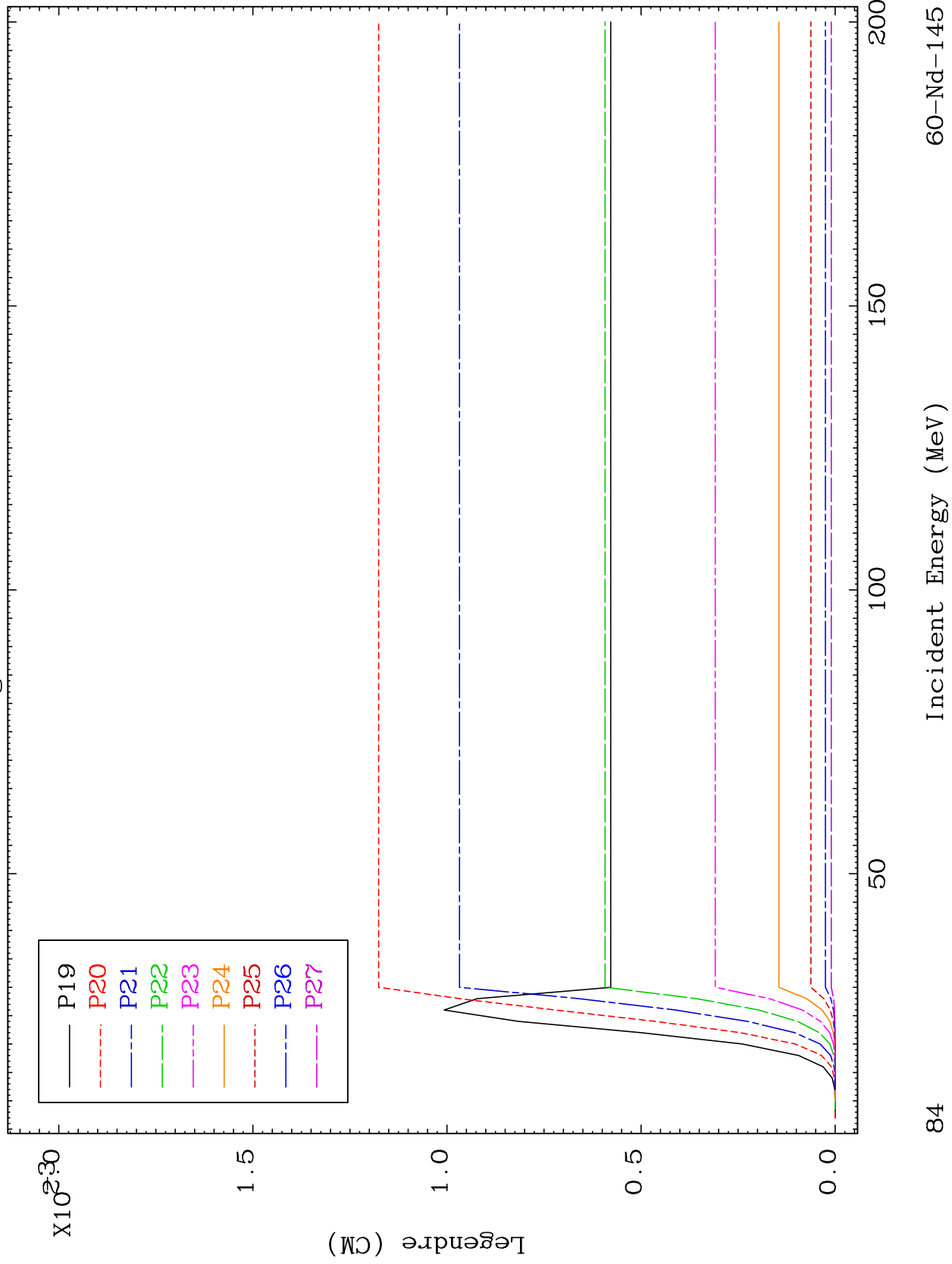
Incident Energy (MeV)

60-Nd-145

MAT 6034

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

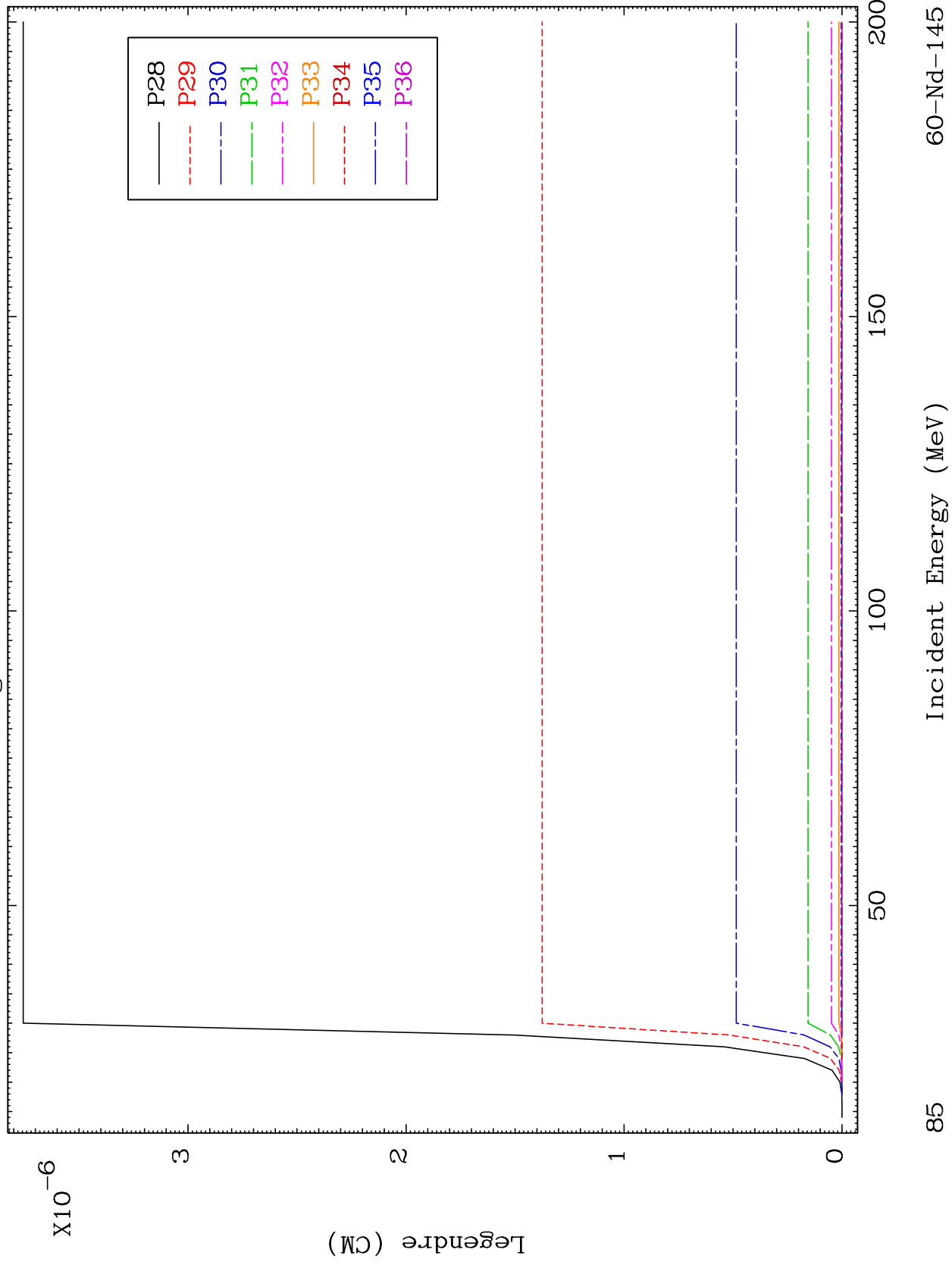
60-Nd-145

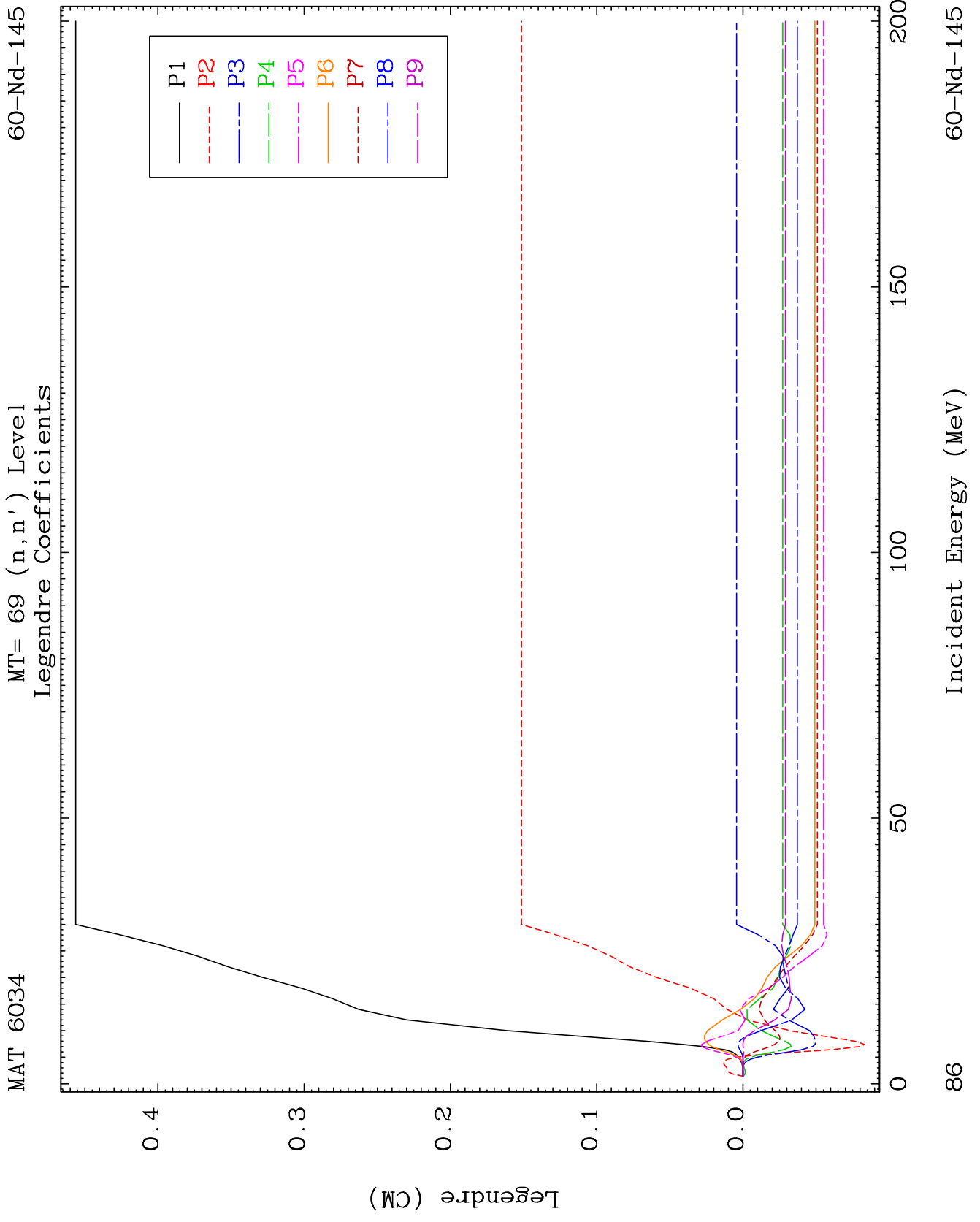


MAT 6034

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

60-Nd-145

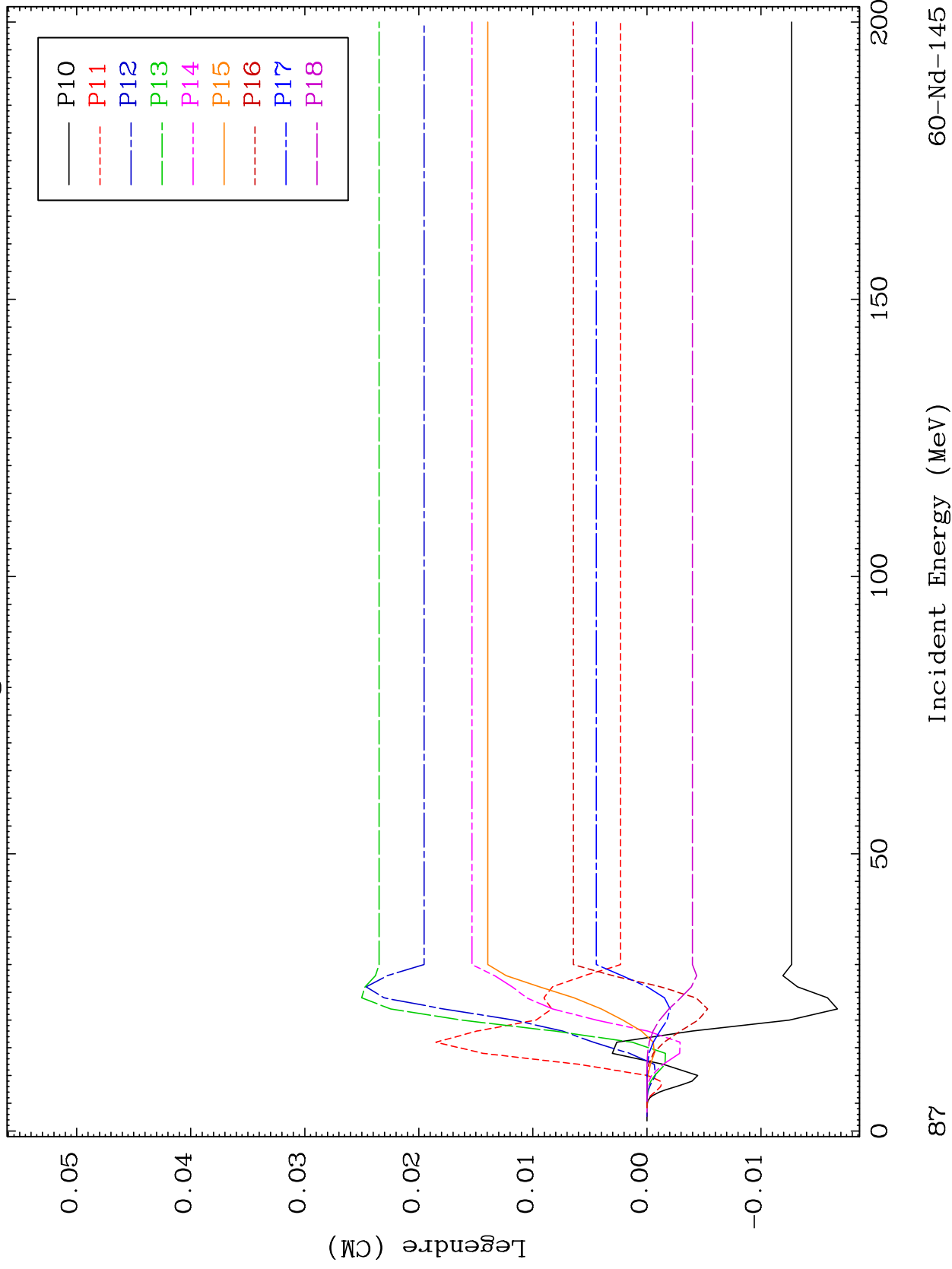




MAT 6034

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

60-Nd-145



87

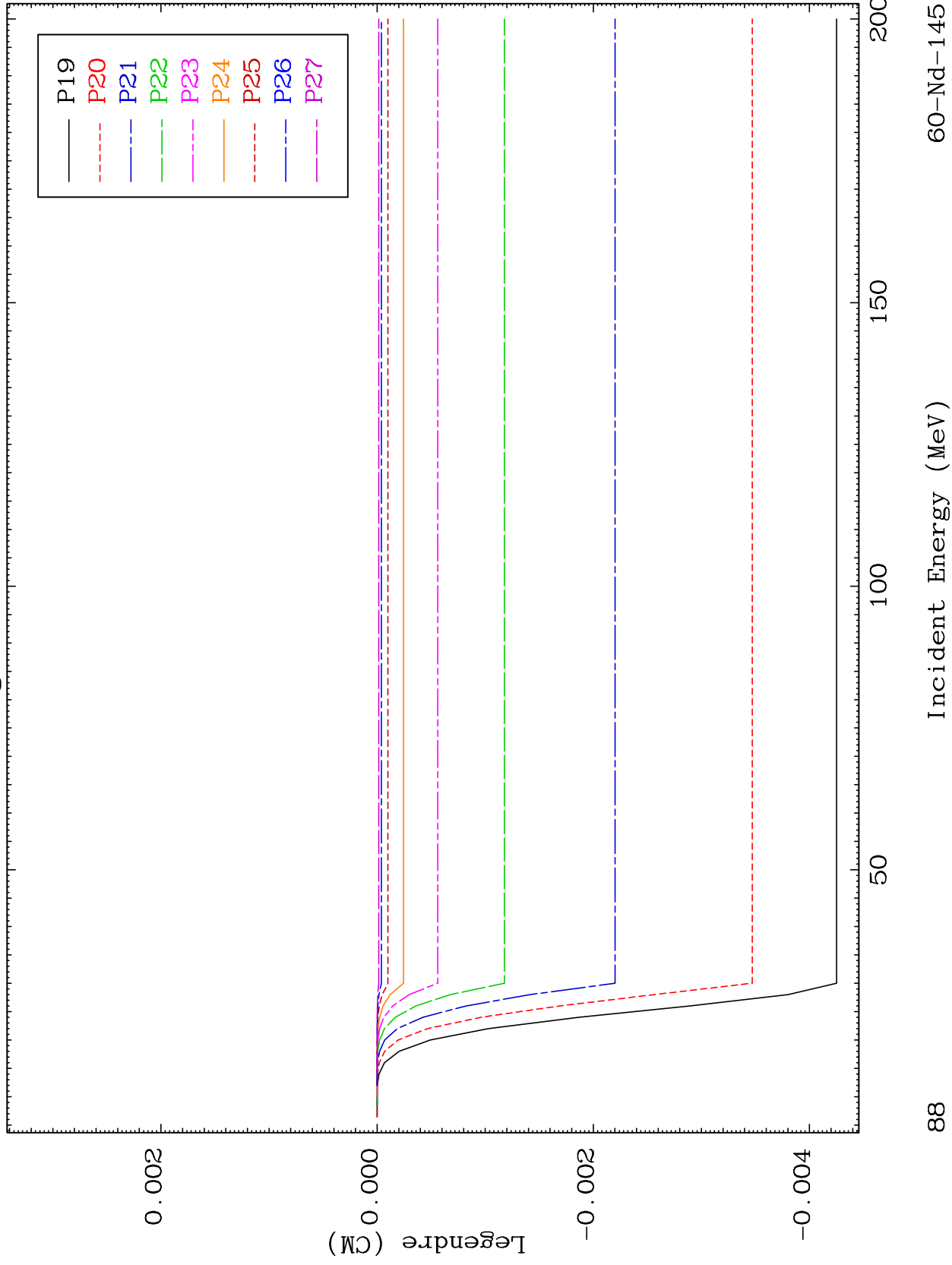
Incident Energy (MeV)

60-Nd-145

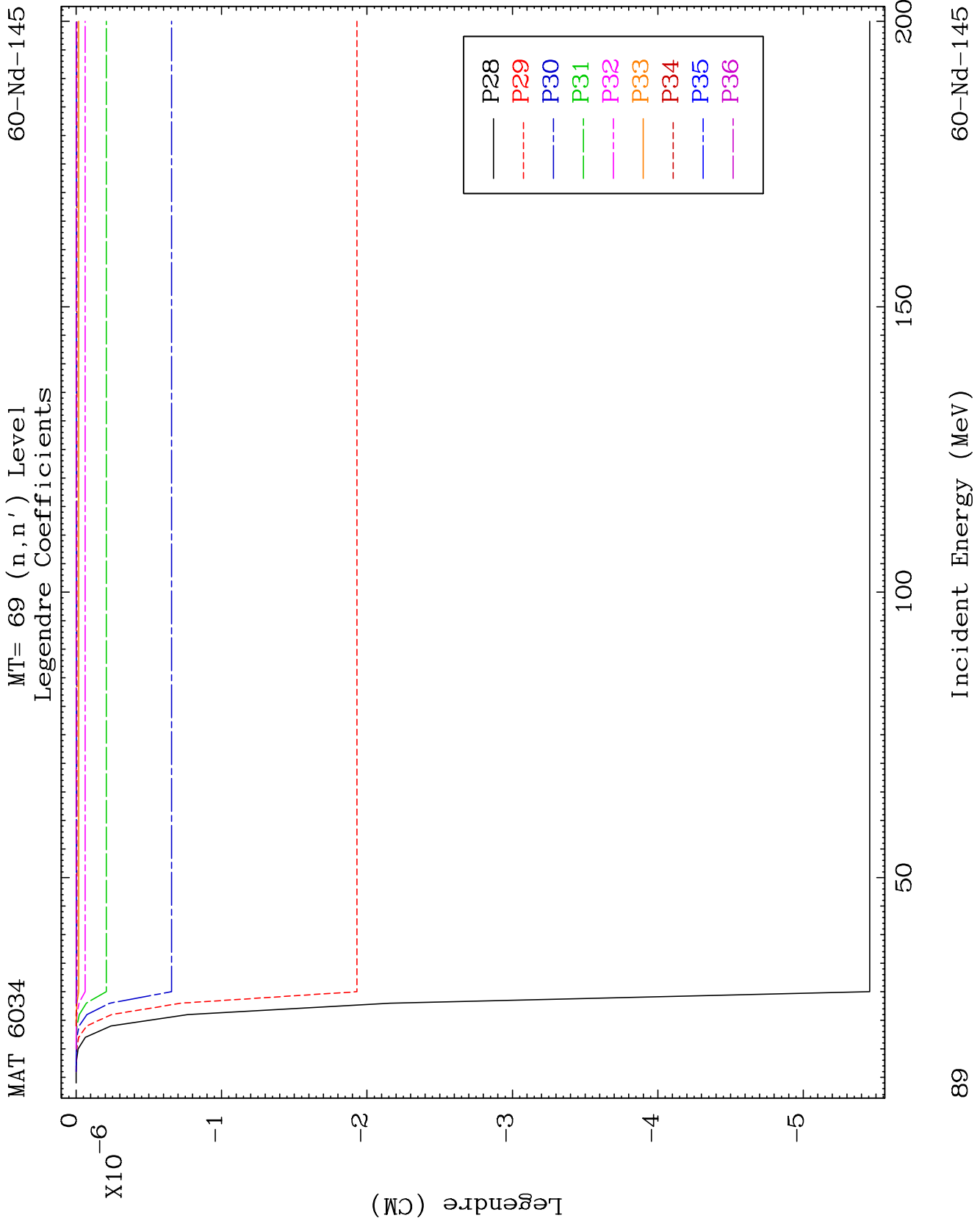
MAT 6034

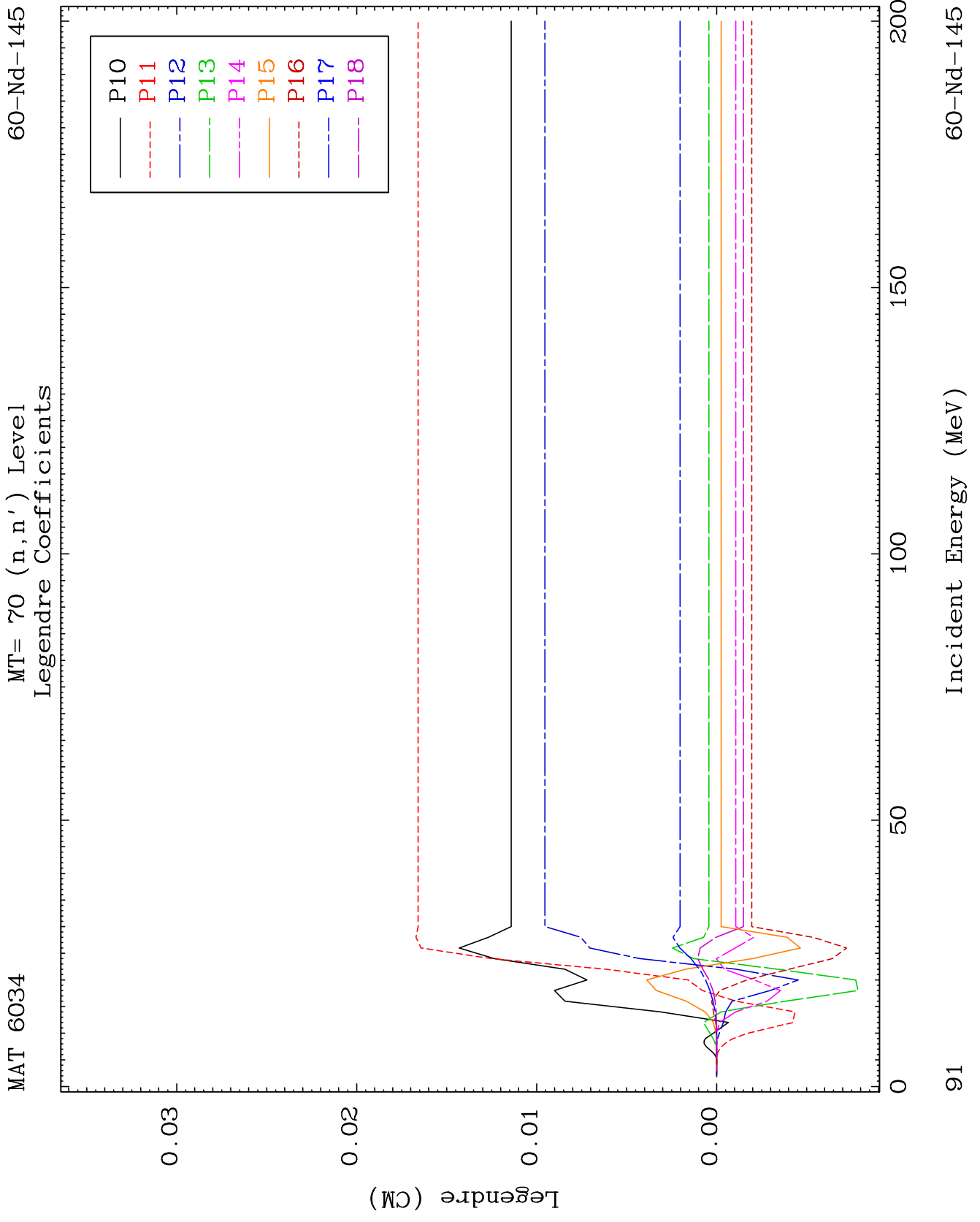
MT= 69 (n,n') Level
Legendre Coefficients

60-Nd-145



88

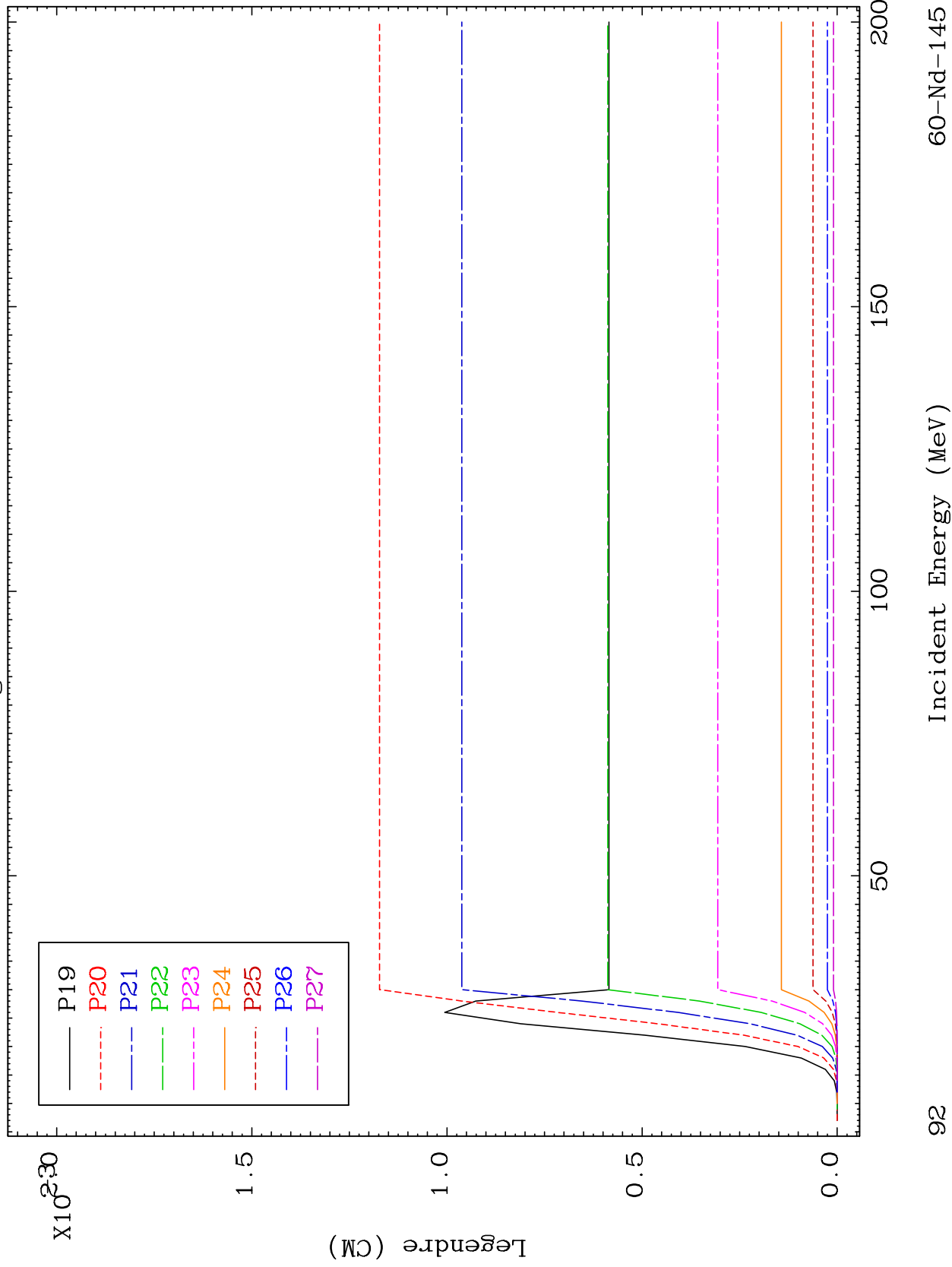




MAT 6034

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

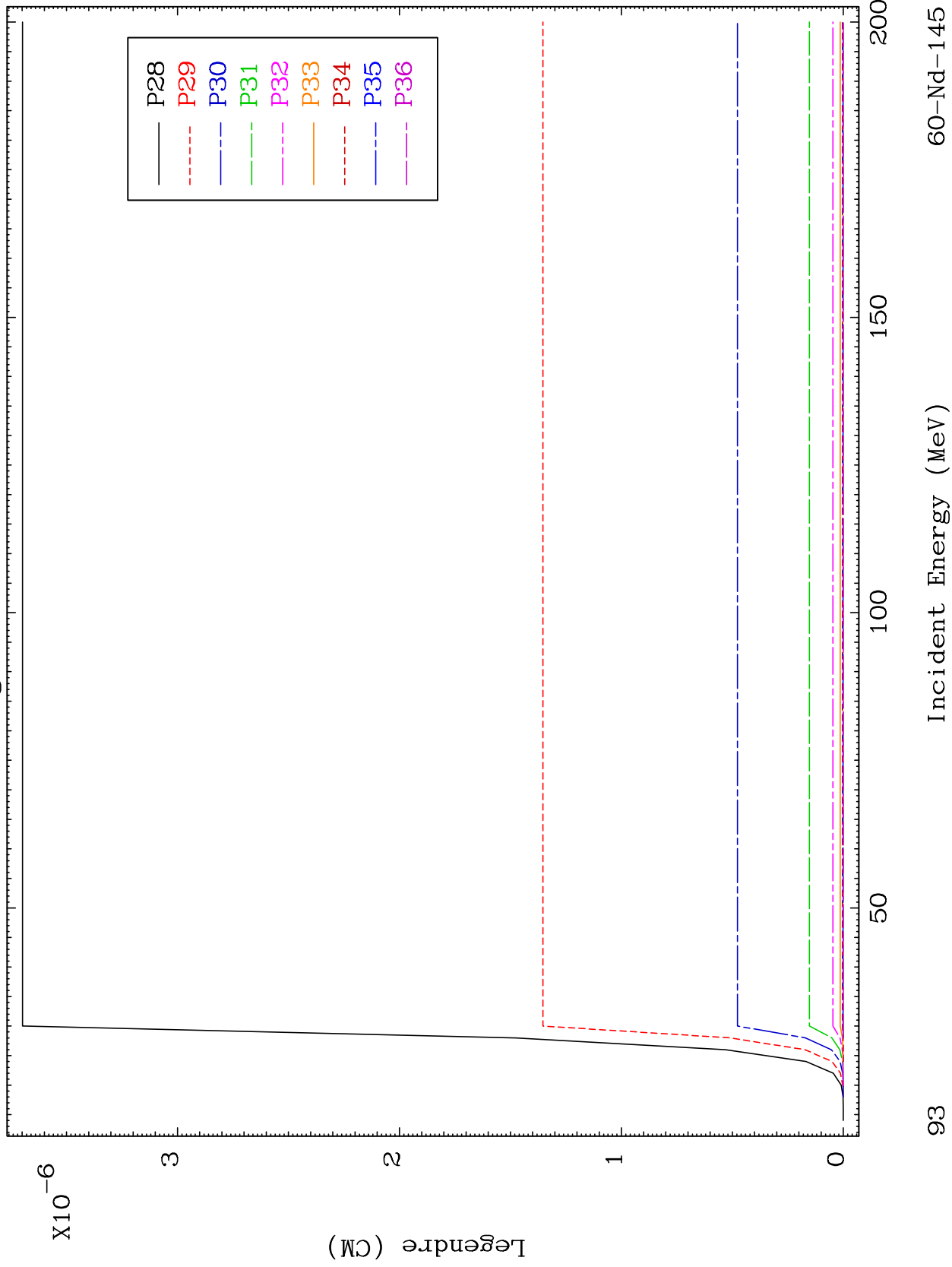
60-Nd-145



MAT 6034

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

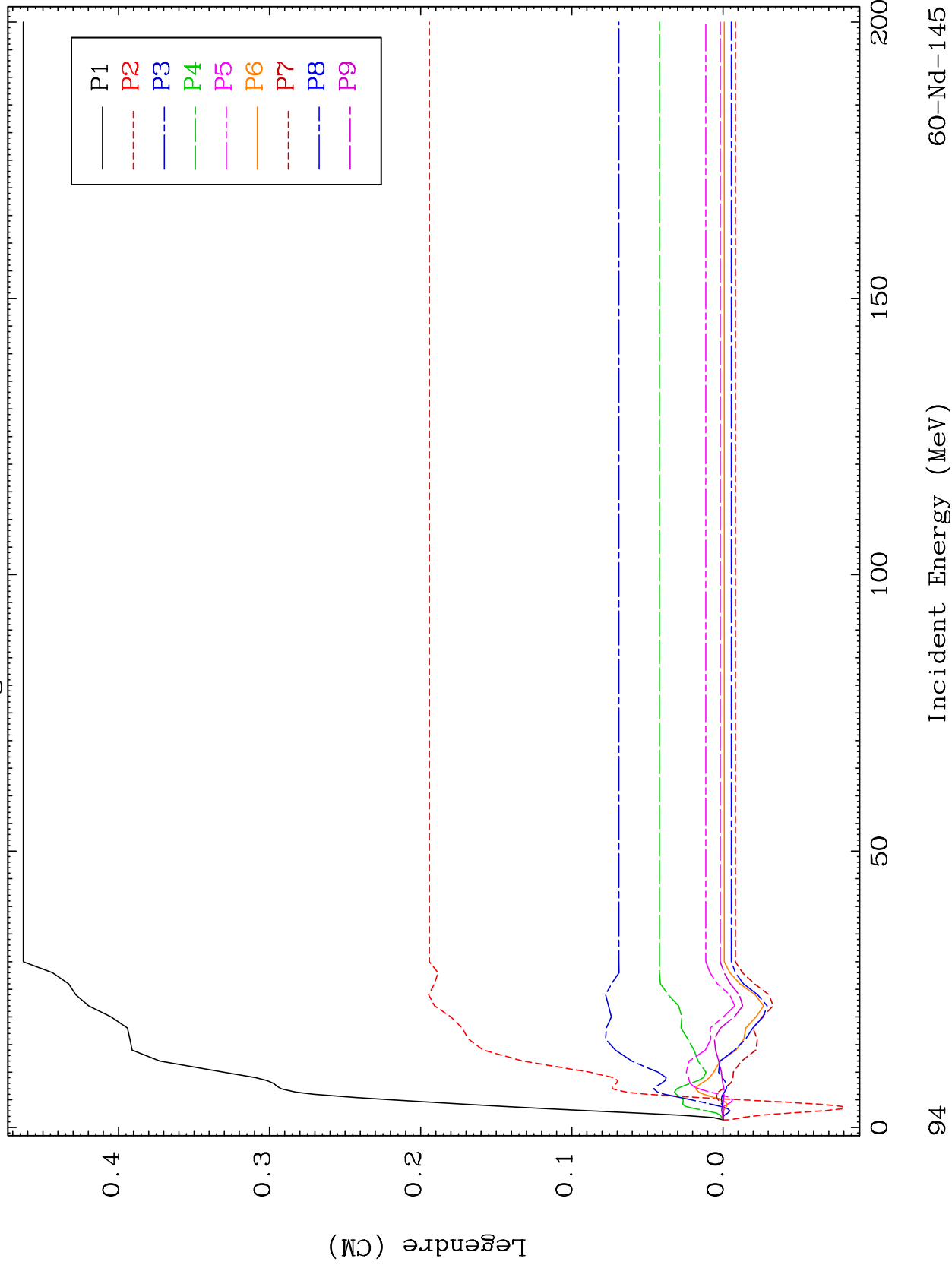
60-Nd-145



MAT 6034

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

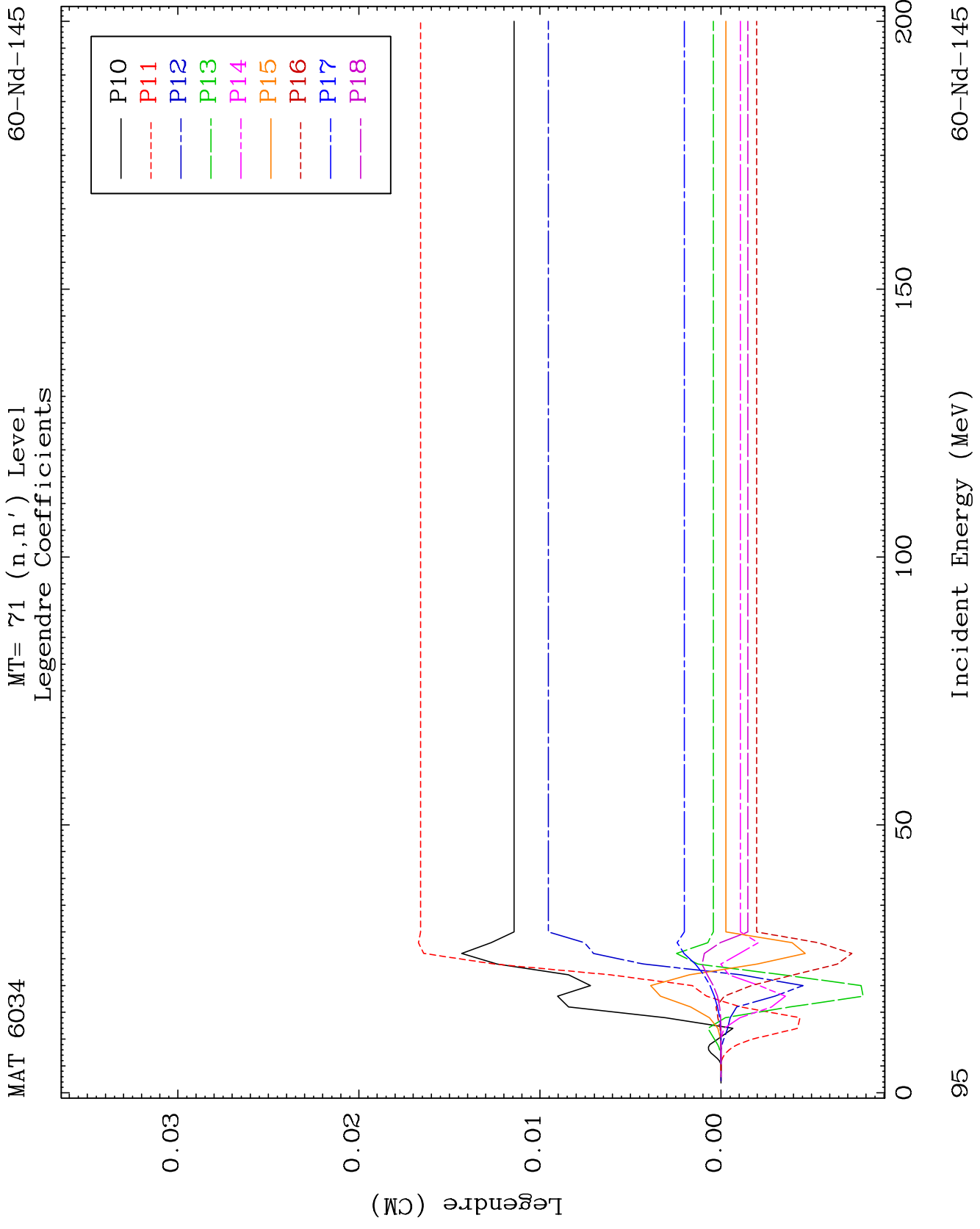
60-Nd-145



60-Nd-145

Incident Energy (MeV)

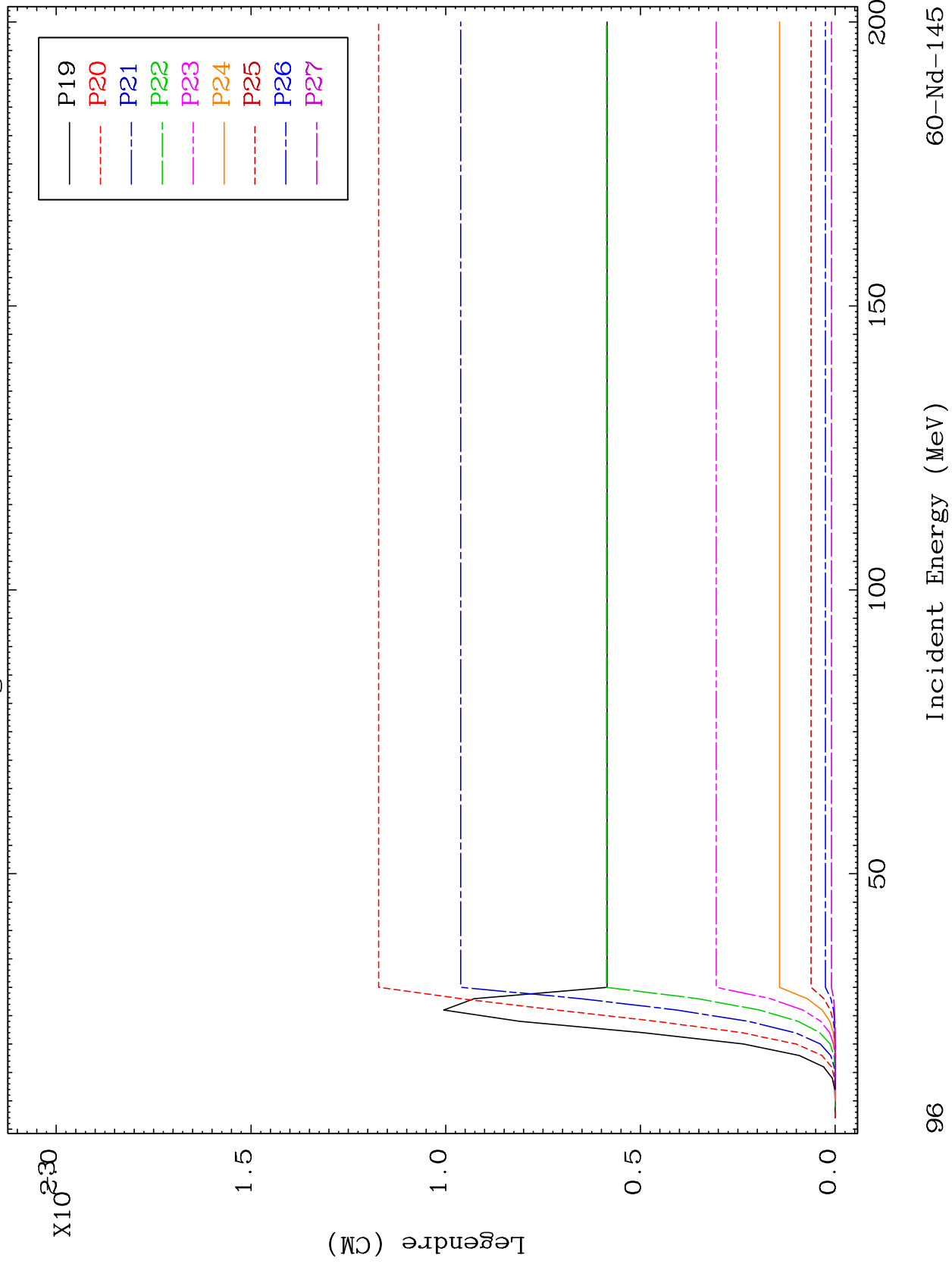
94



MAT 6034

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

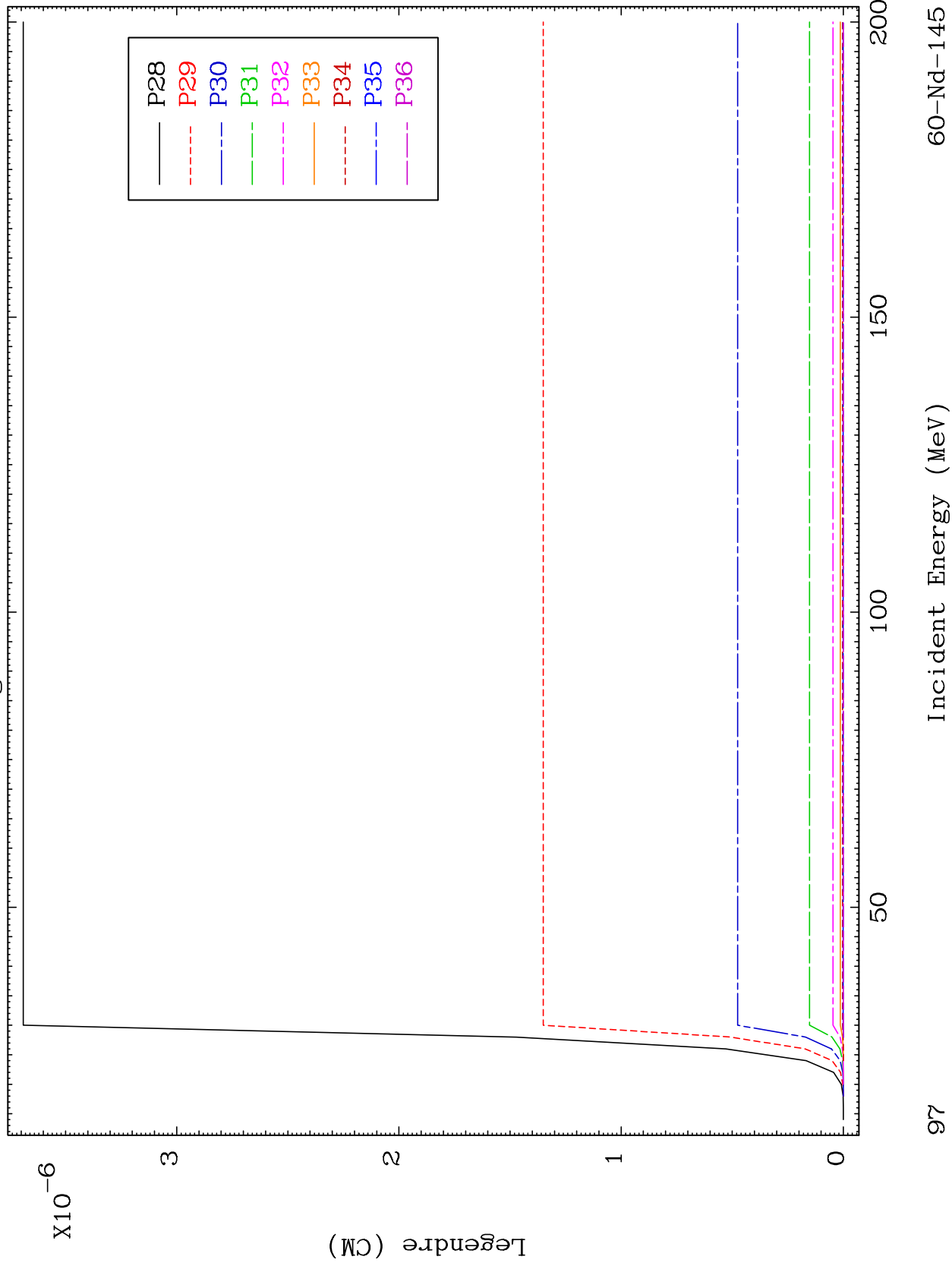
60-Nd-145



MAT 6034

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

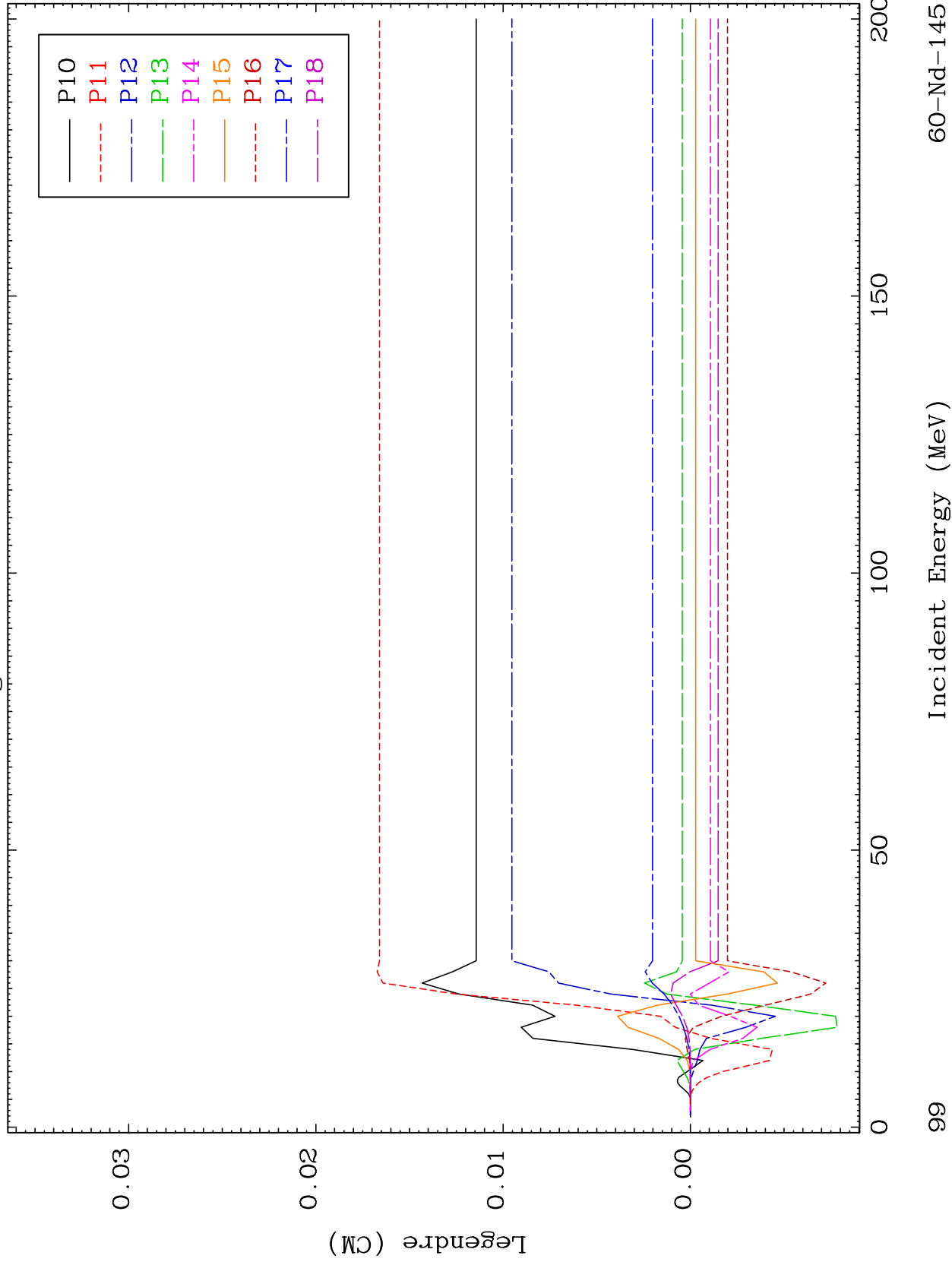
60-Nd-145

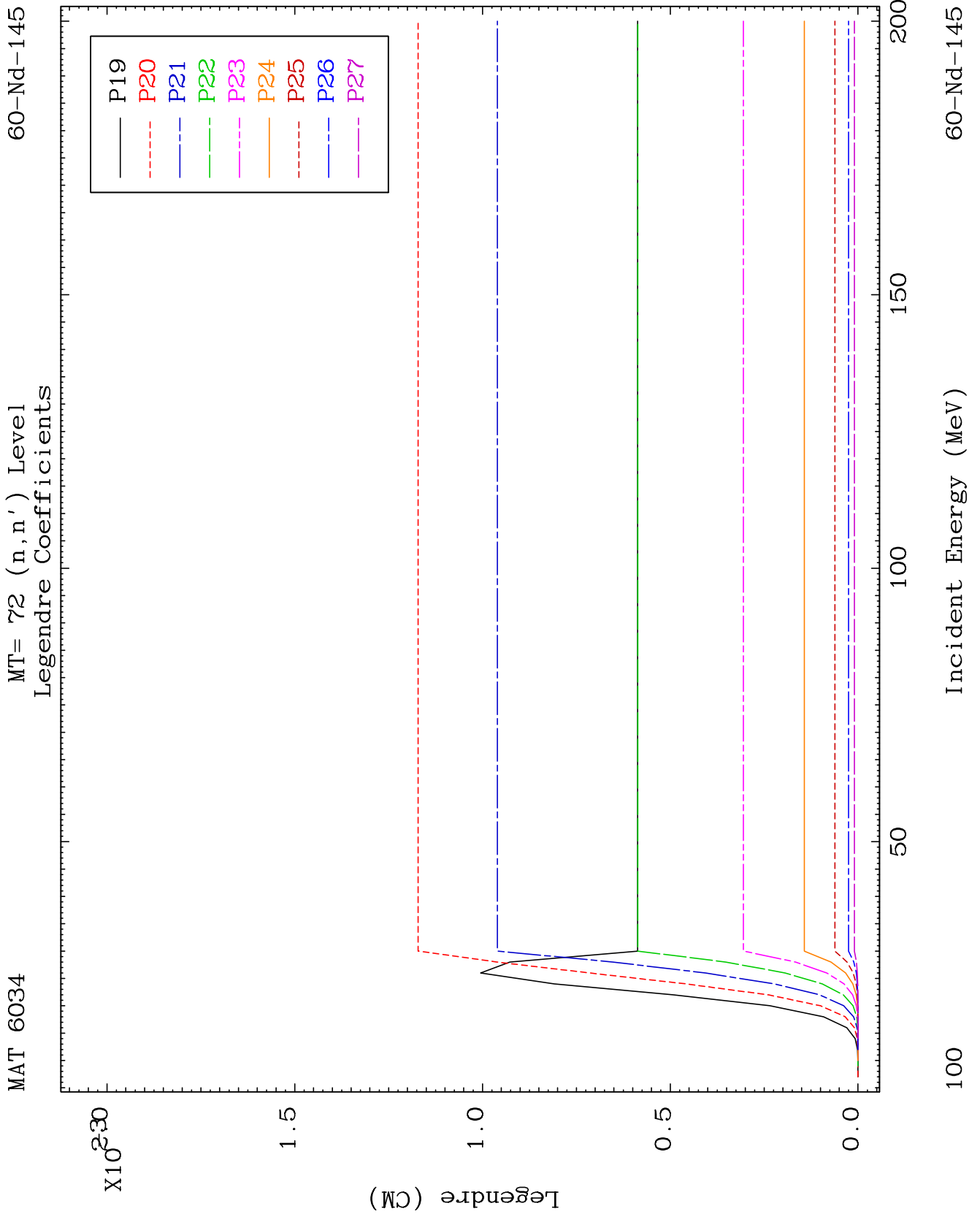


MAT 6034

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

60-Nd-145

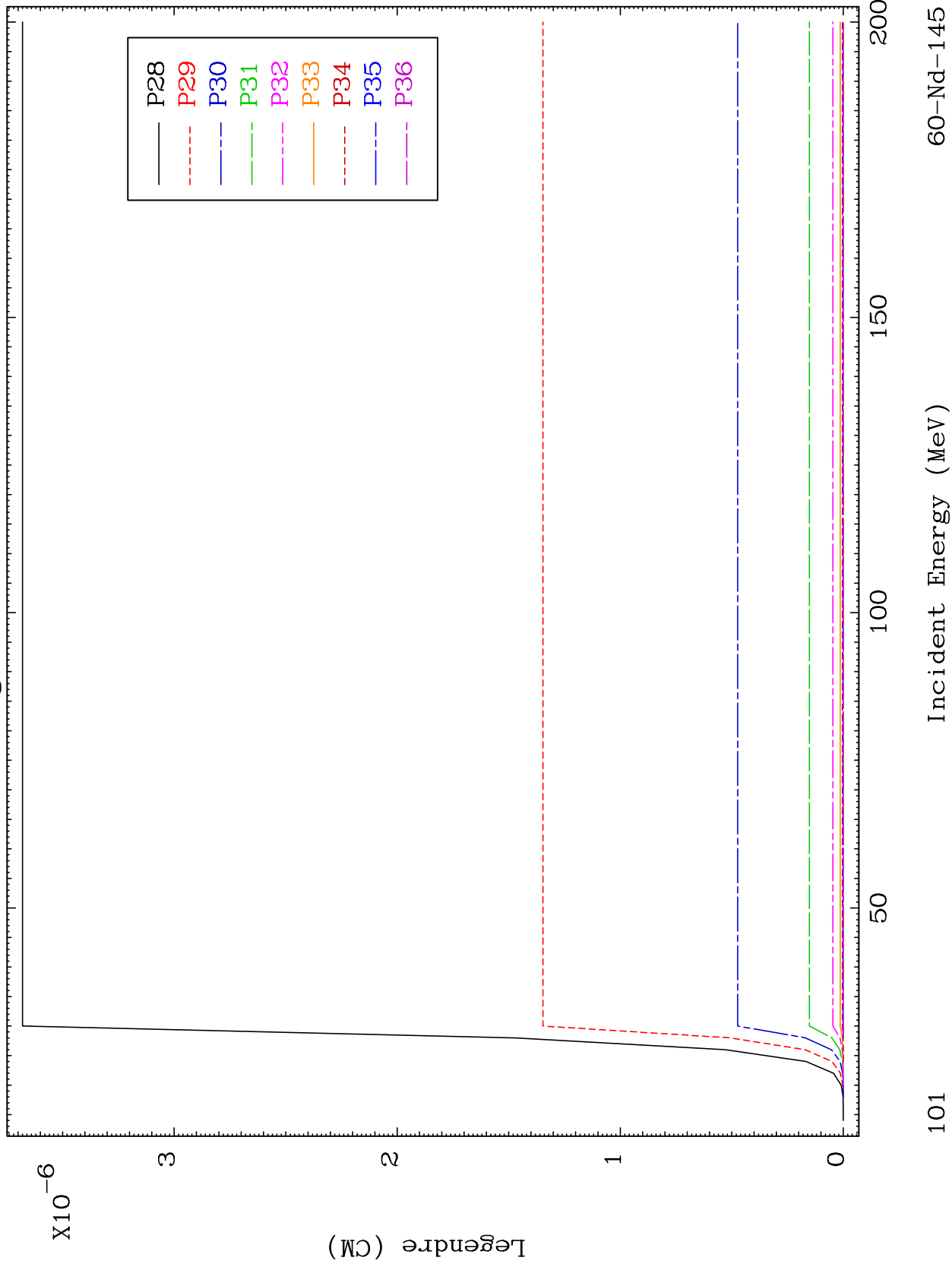


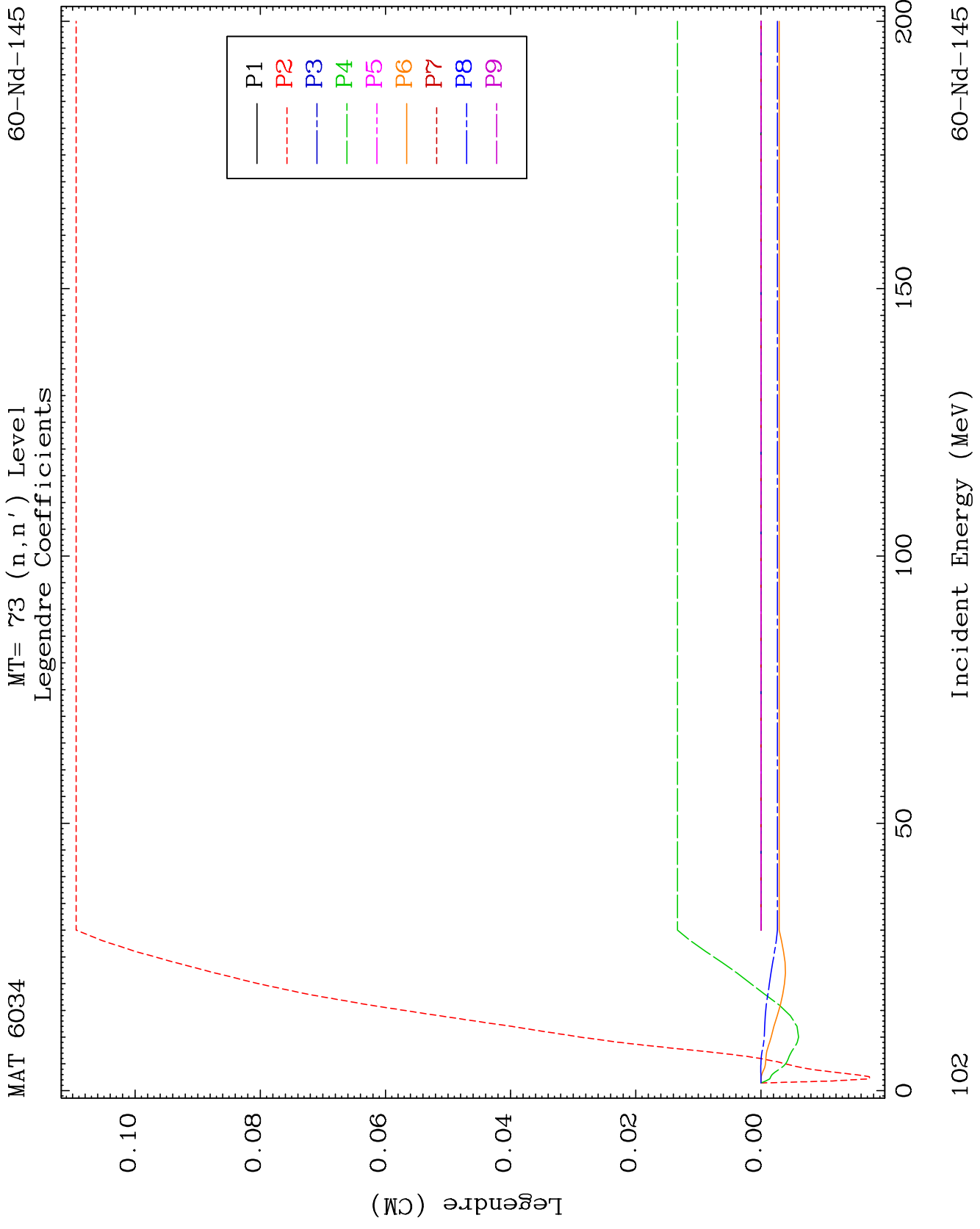


MAT 6034

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

60-Nd-145

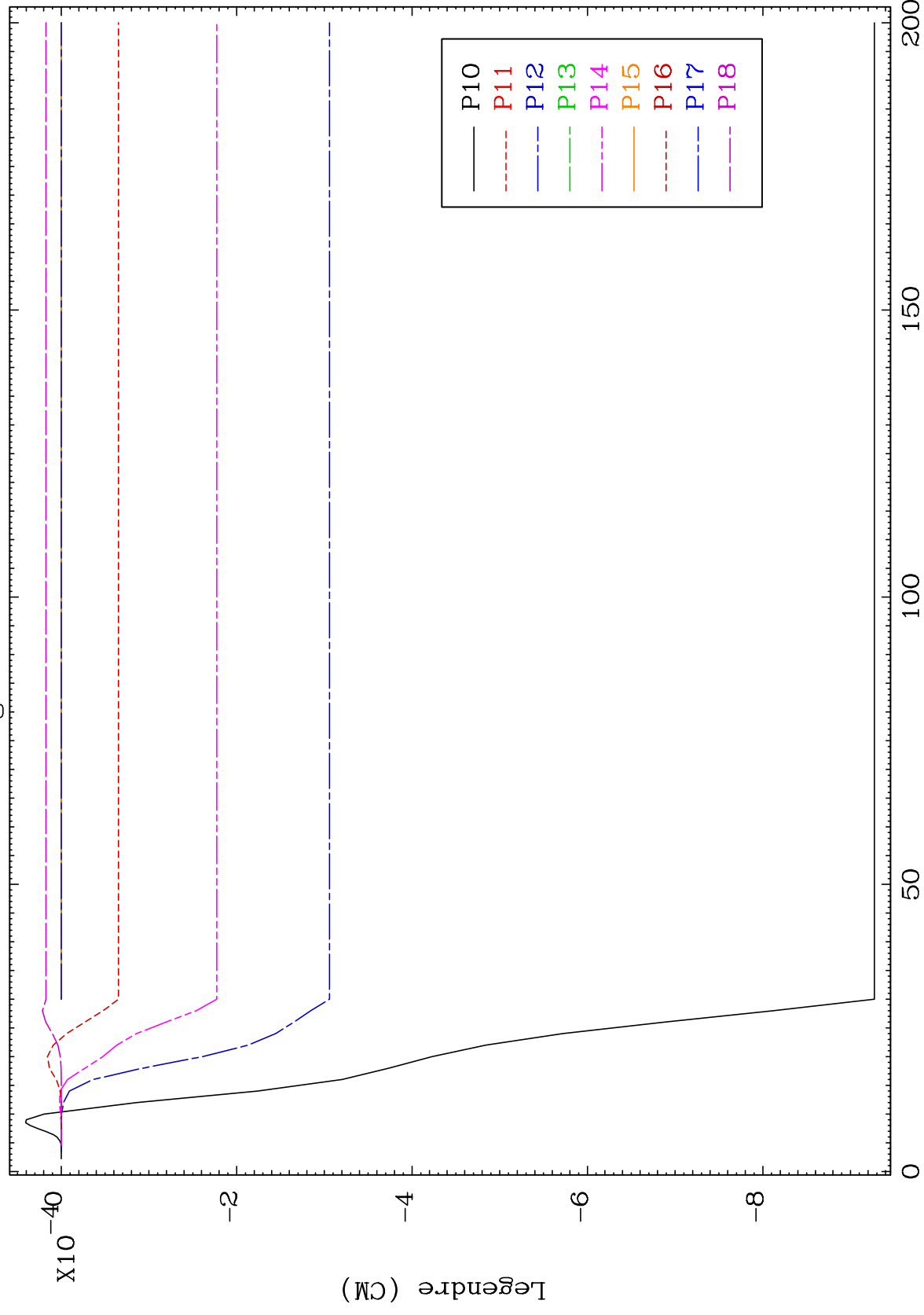




MAT 6034

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

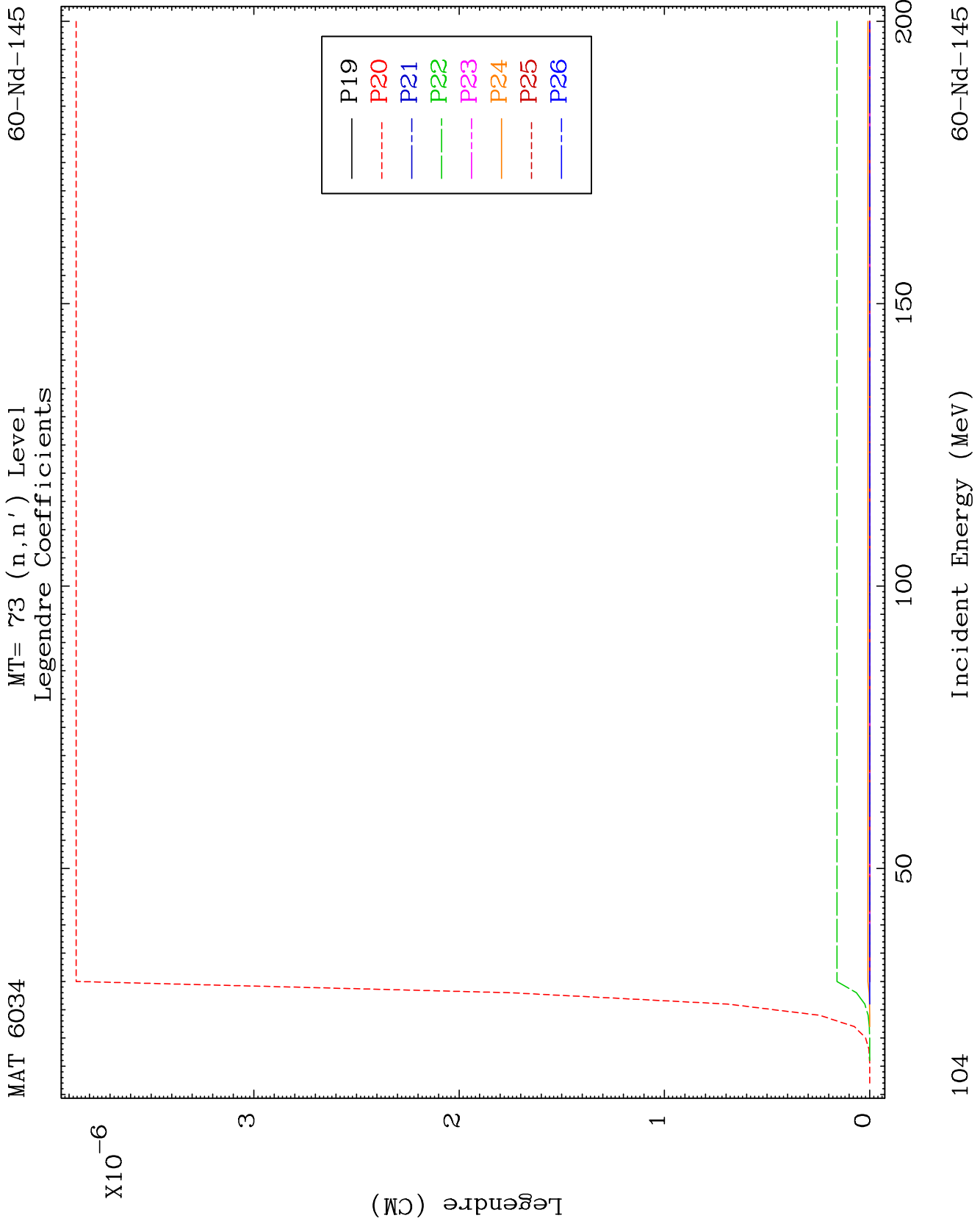
60-Nd-145

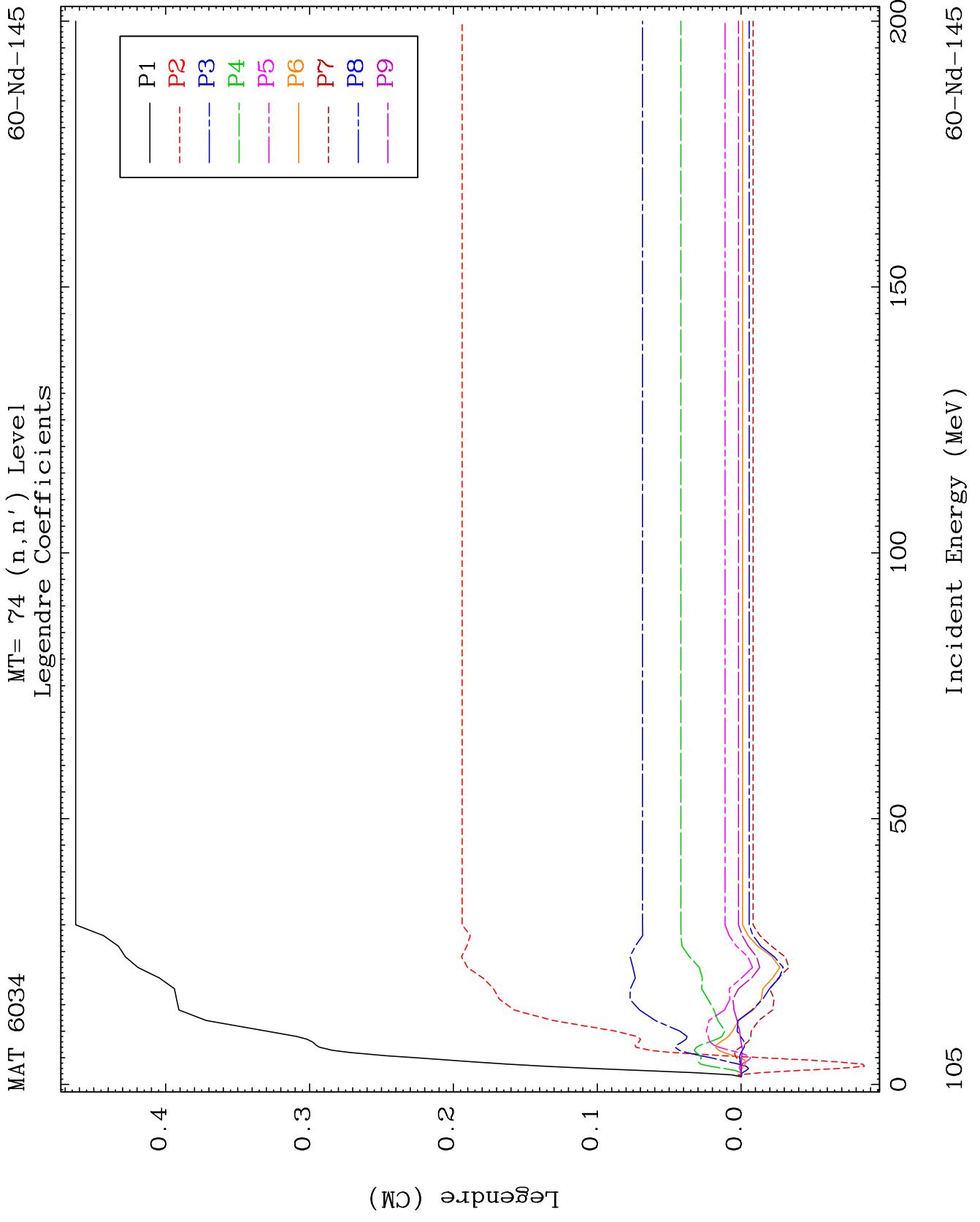


103

Incident Energy (MeV)

60-Nd-145

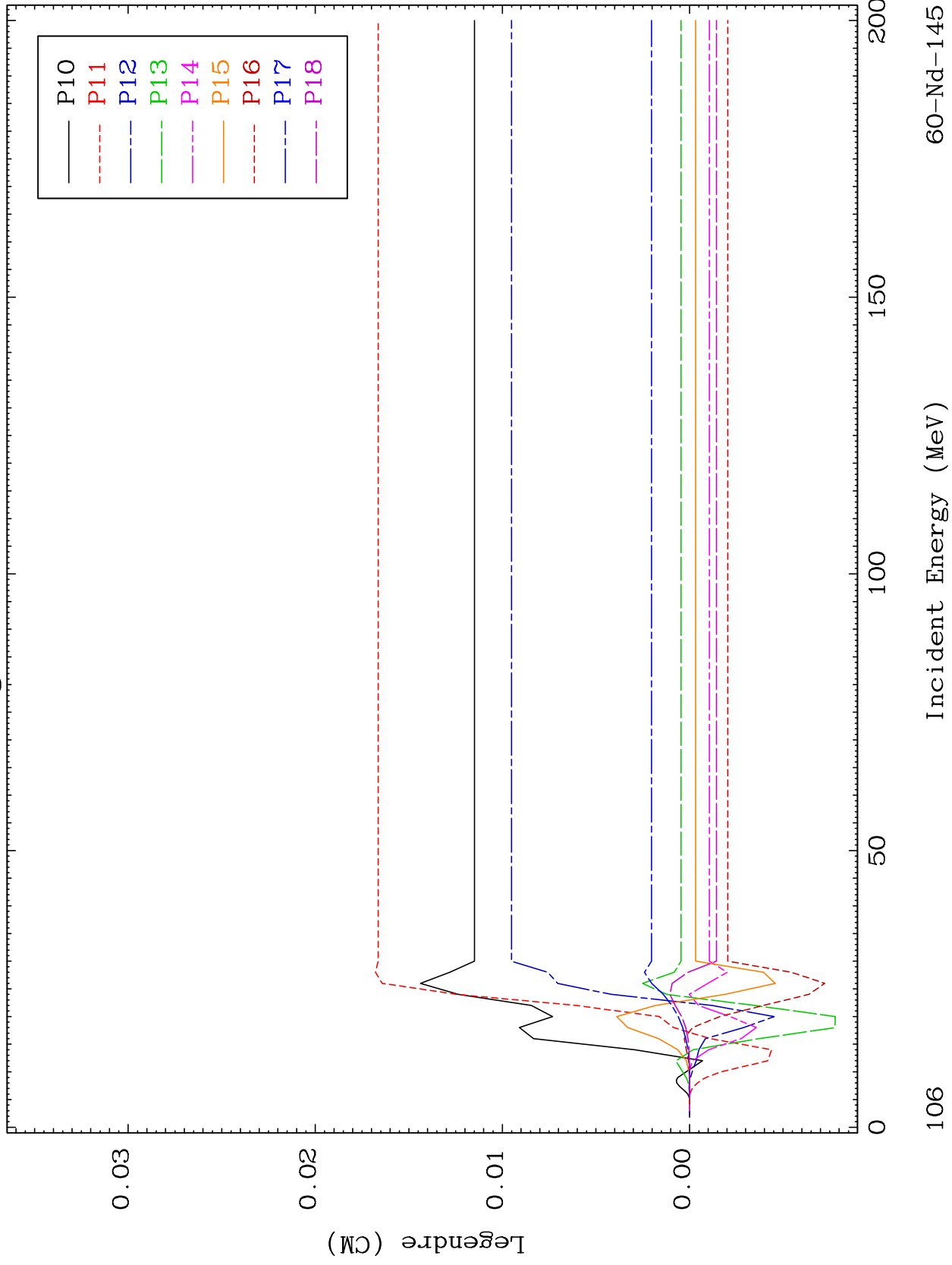




MAT 6034

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

60-Nd-145



60-Nd-145

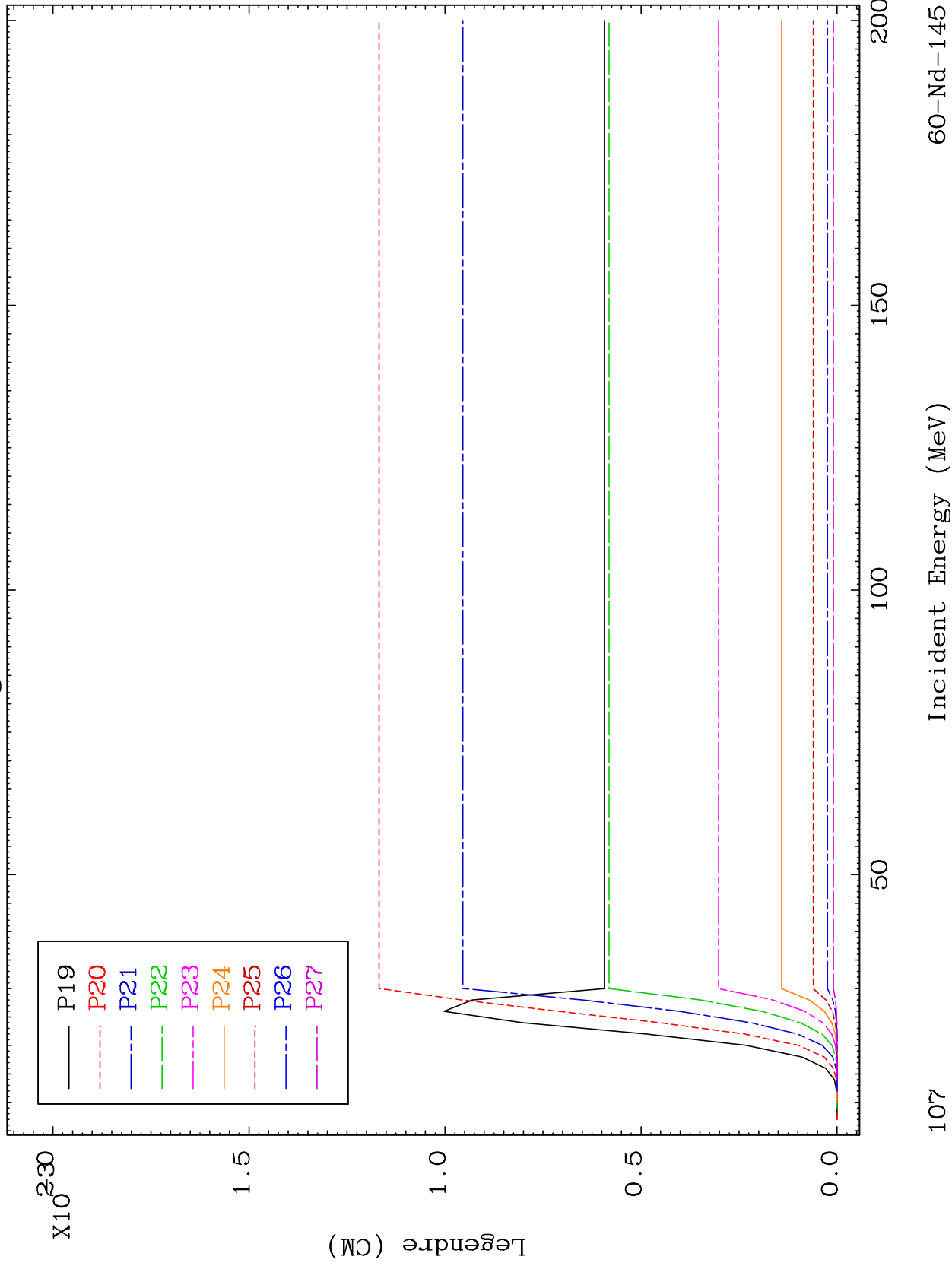
Incident Energy (MeV)

106

MAT 6034

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

60-Nd-145

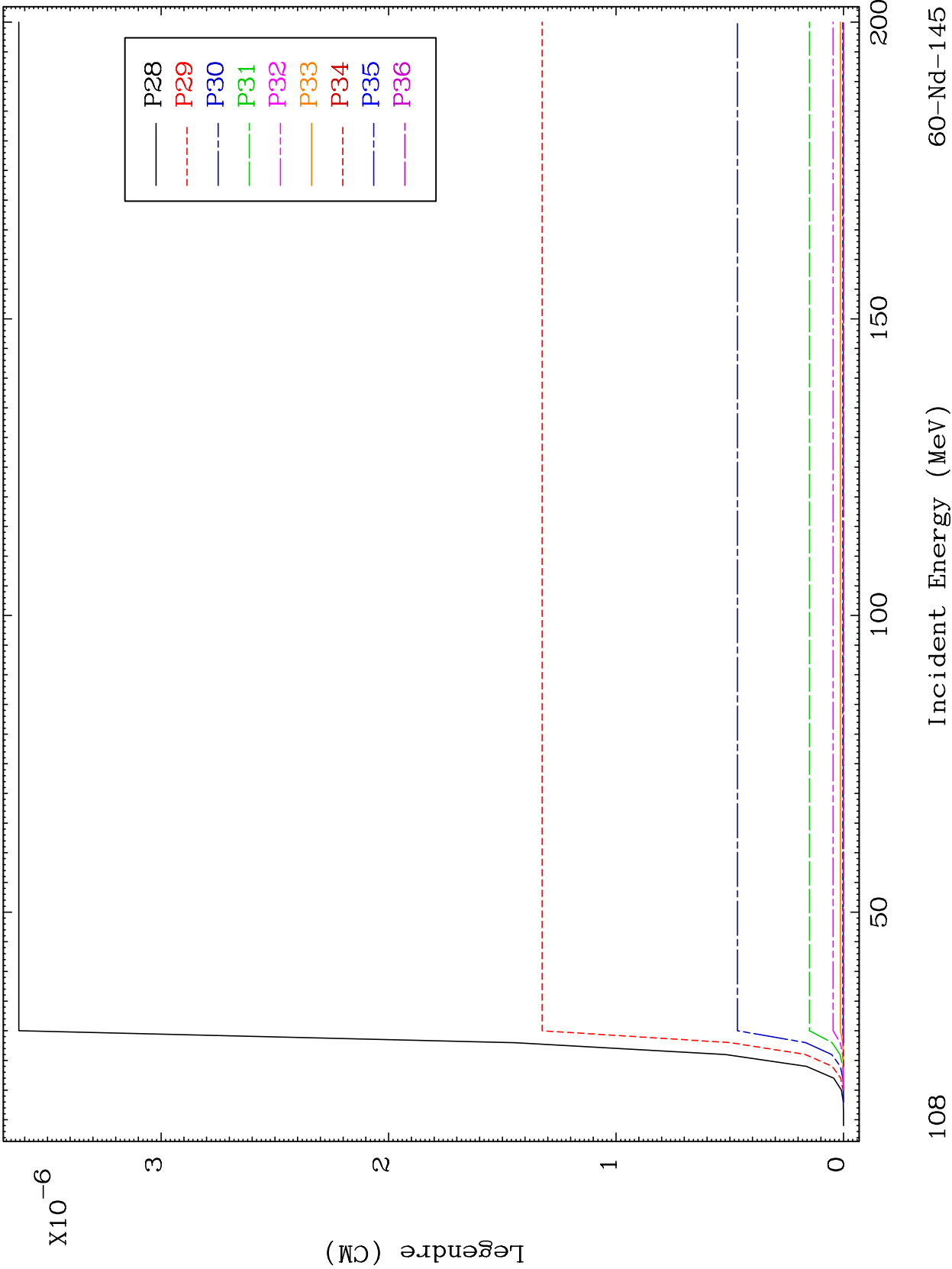


107

MAT 6034

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

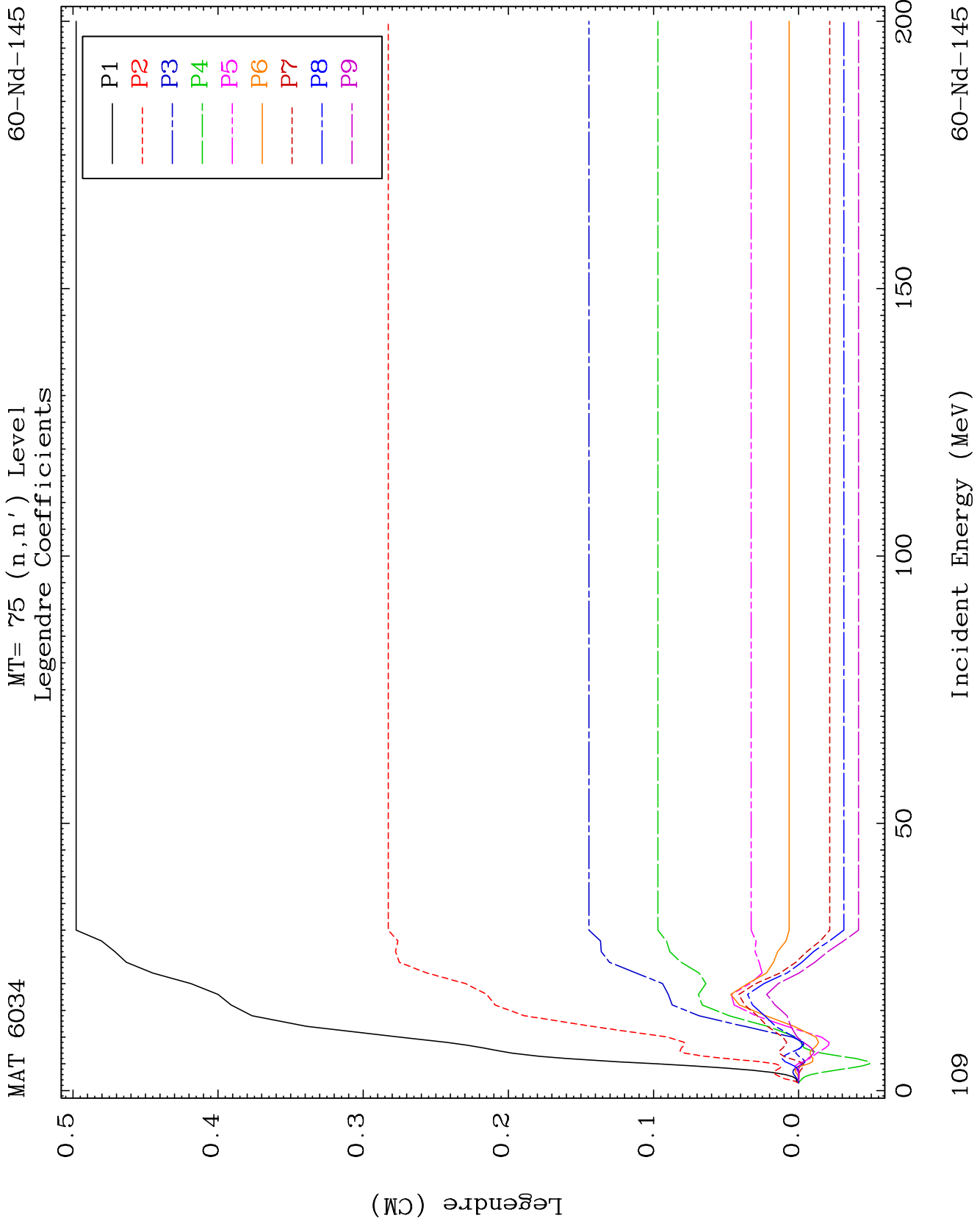
60-Nd-145

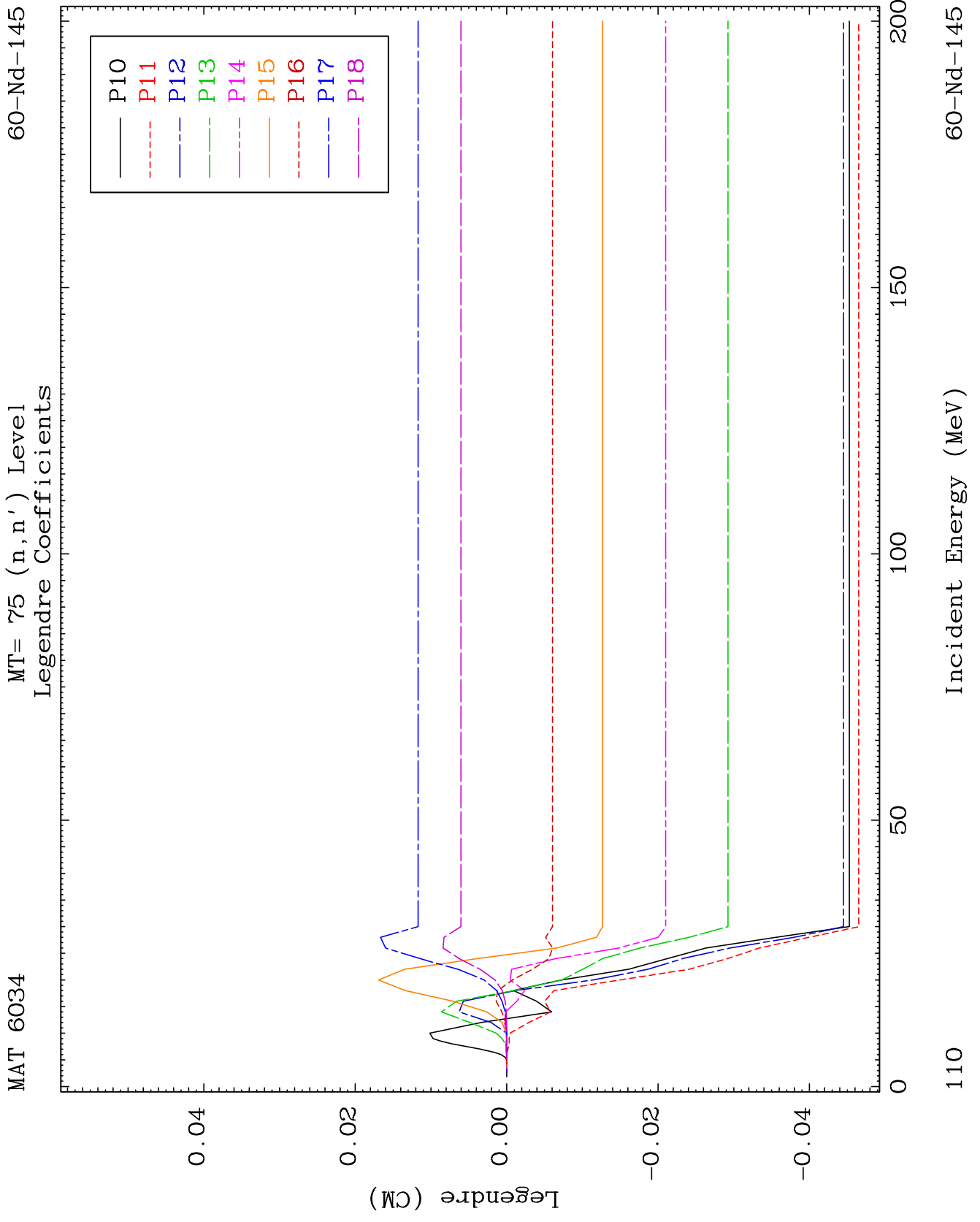


108

Incident Energy (MeV)

60-Nd-145

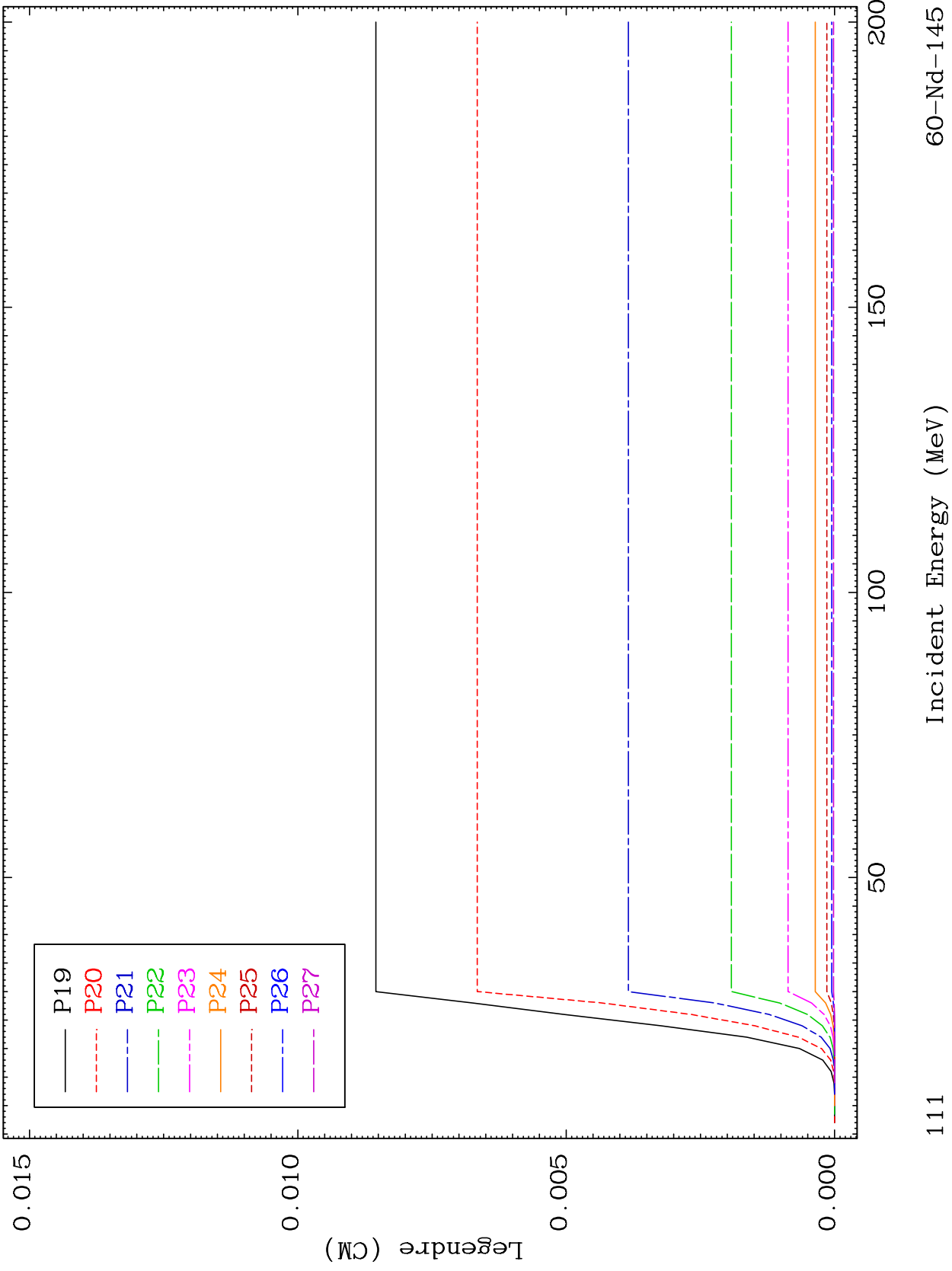




MAT 6034

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

60-Nd-145



111

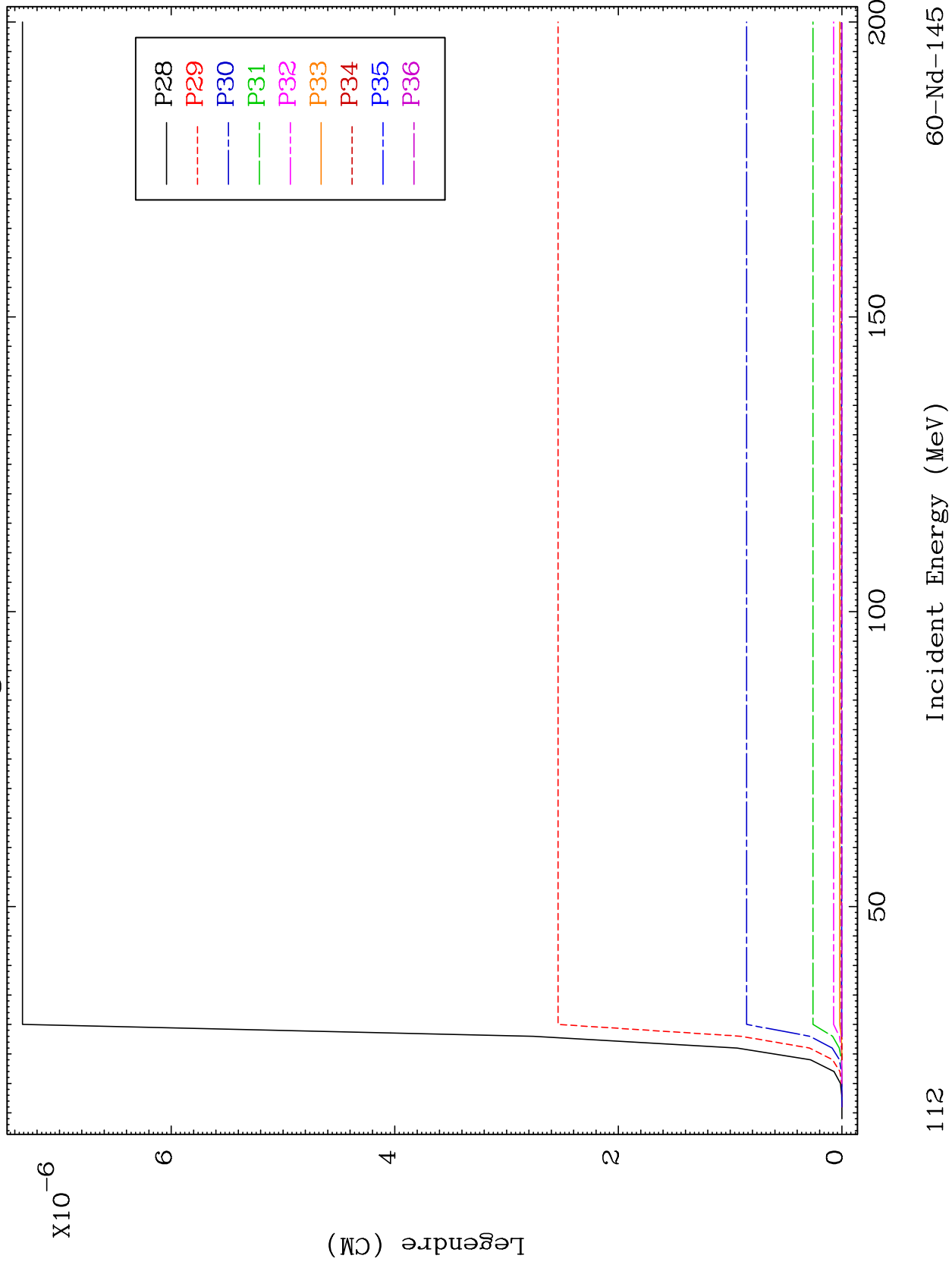
Incident Energy (MeV)

60-Nd-145

MAT 6034

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

60-Nd-145



112

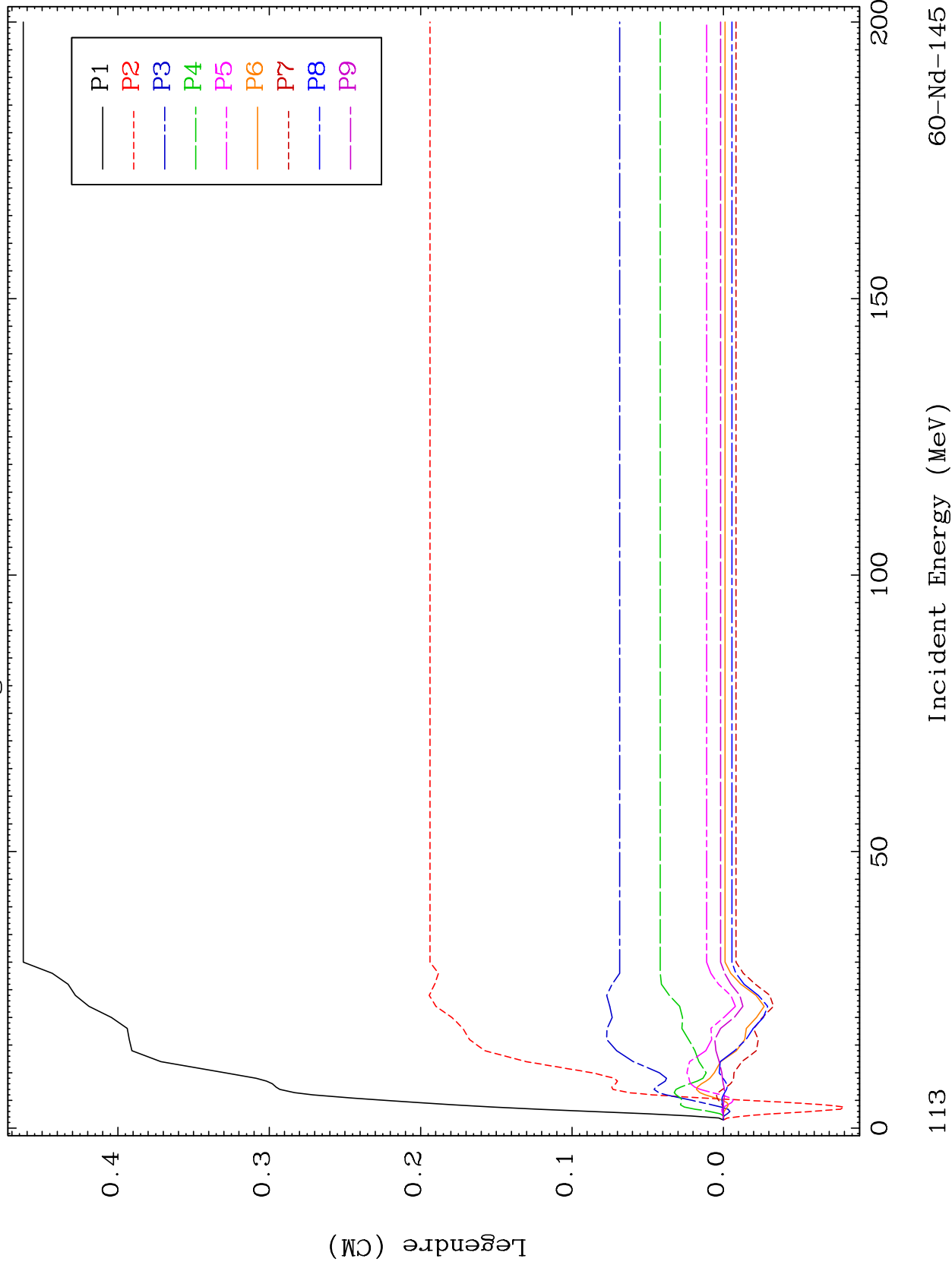
Incident Energy (MeV)

60-Nd-145

MAT 6034

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

60-Nd-145



60-Nd-145

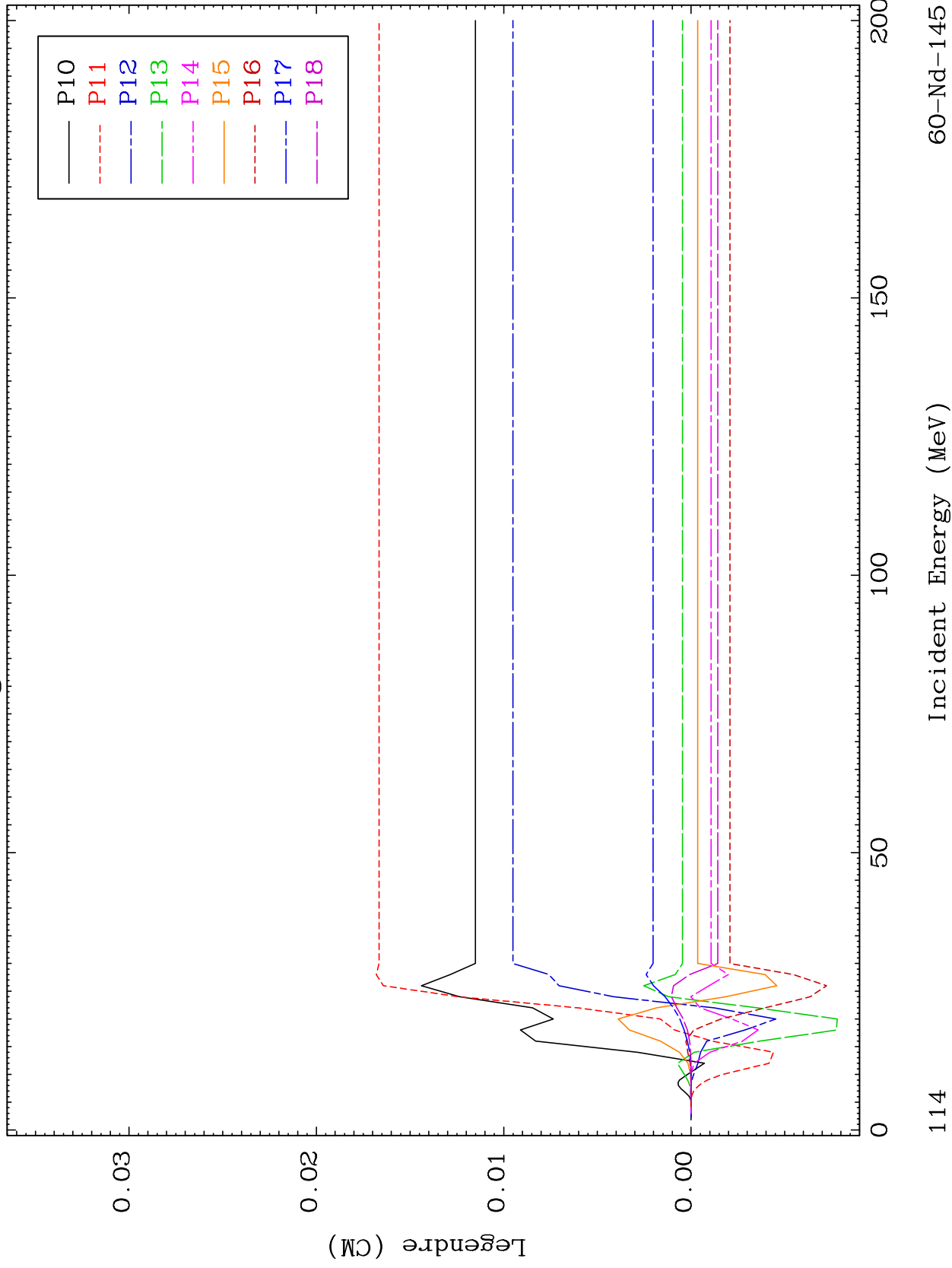
Incident Energy (MeV)

113

MAT 6034

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

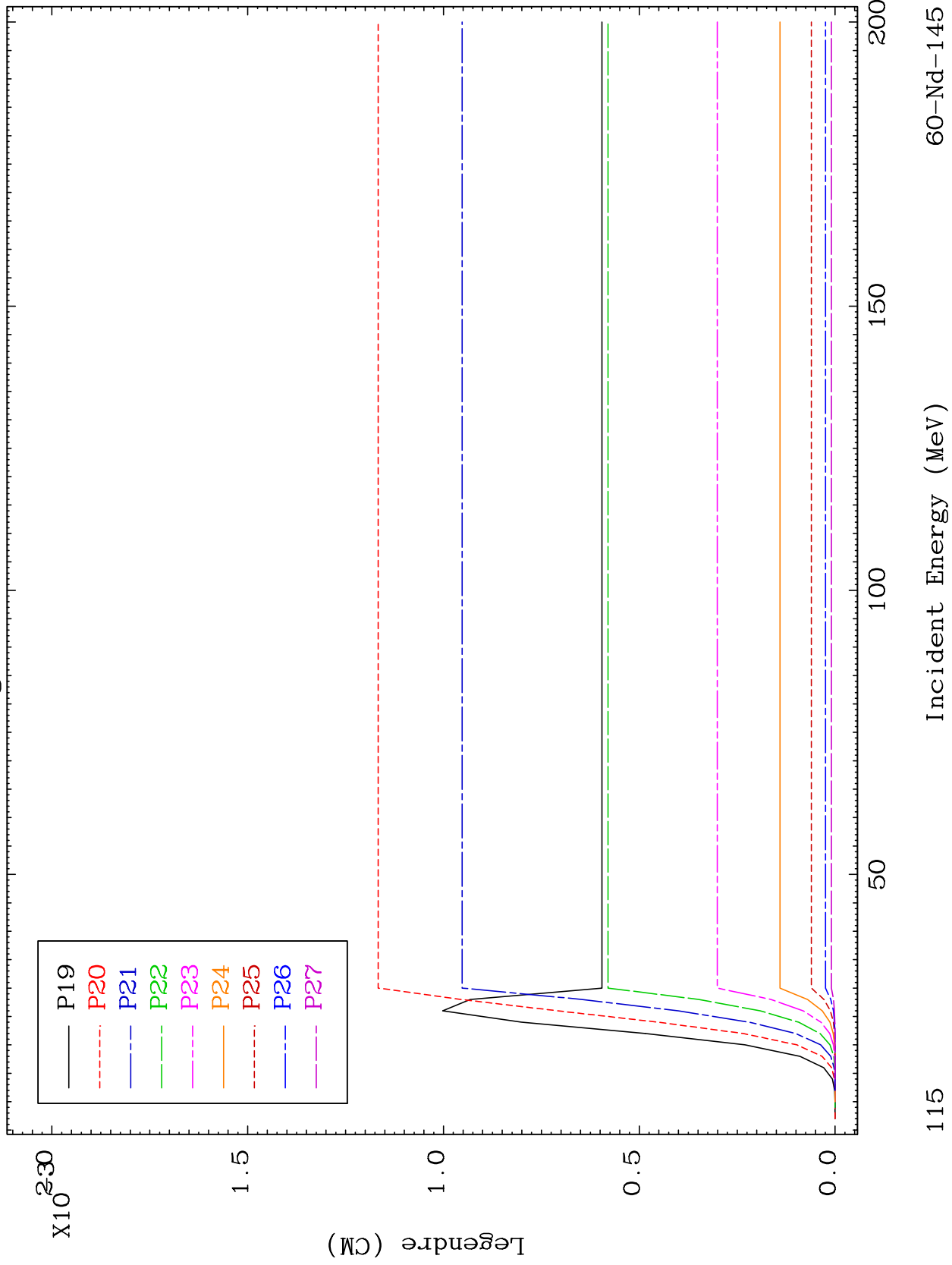
60-Nd-145



MAT 6034

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

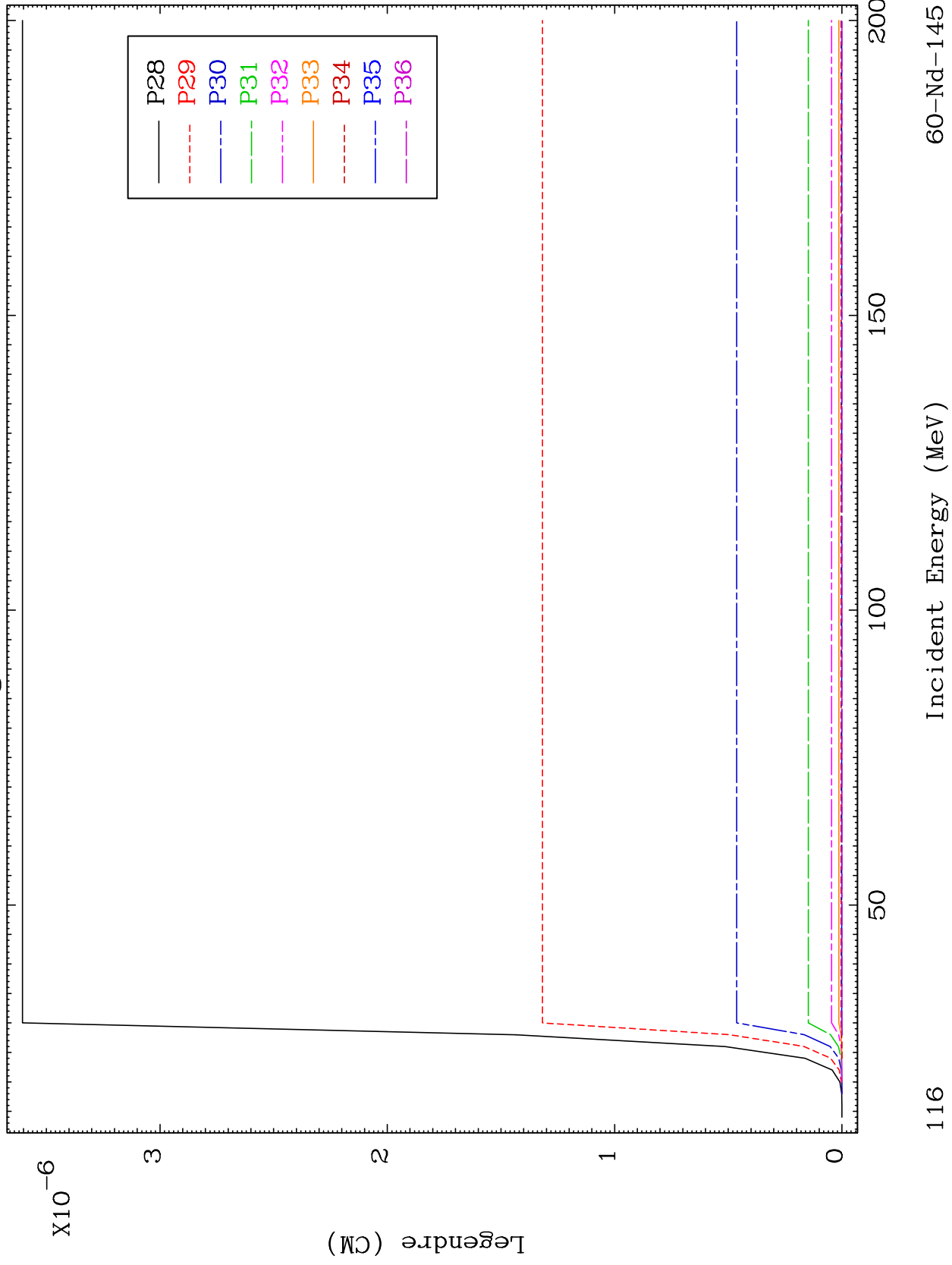
60-Nd-145



MAT 6034

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

60-Nd-145



116

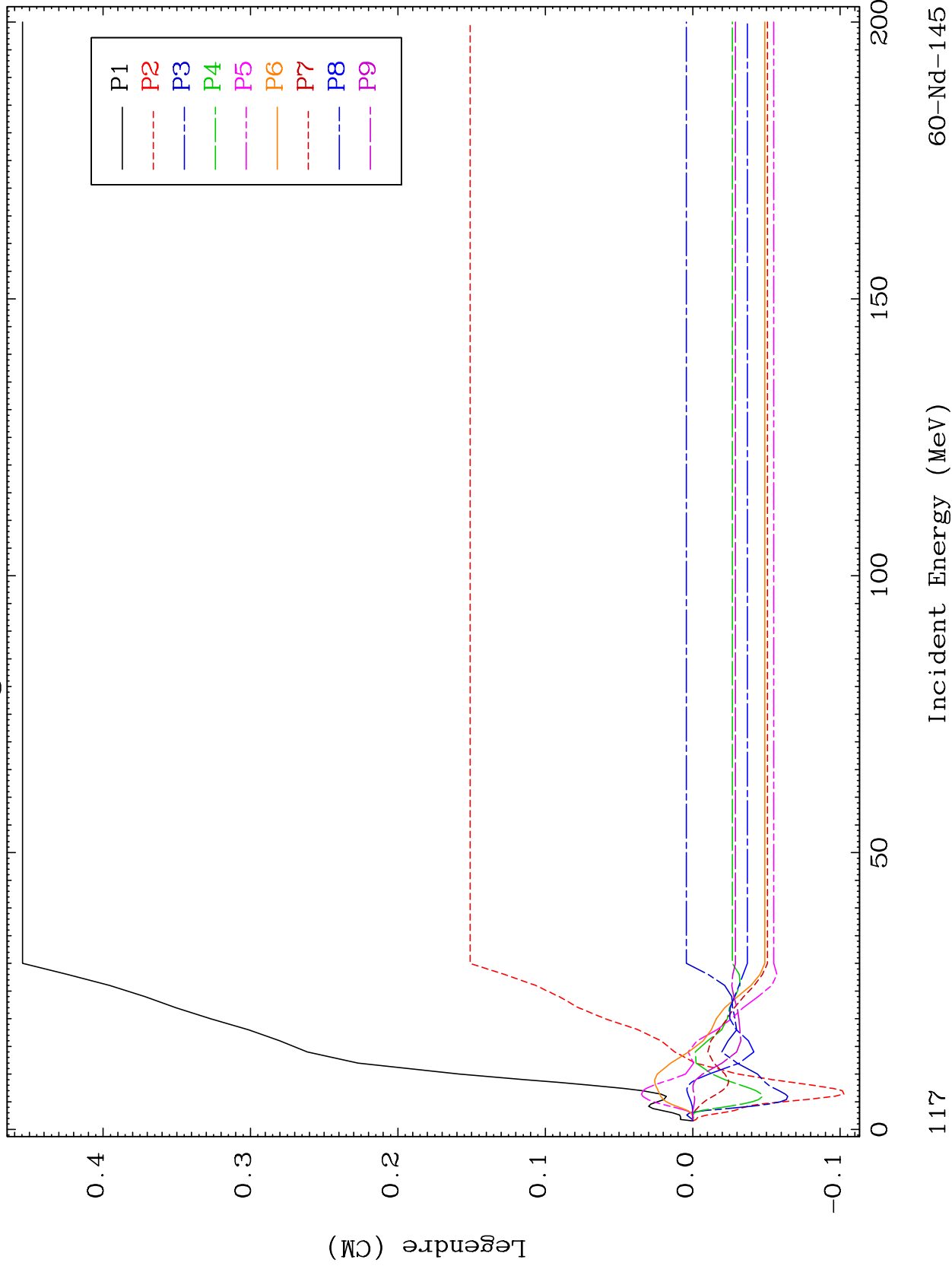
Incident Energy (MeV)

60-Nd-145

MAT 6034

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

60-Nd-145



117

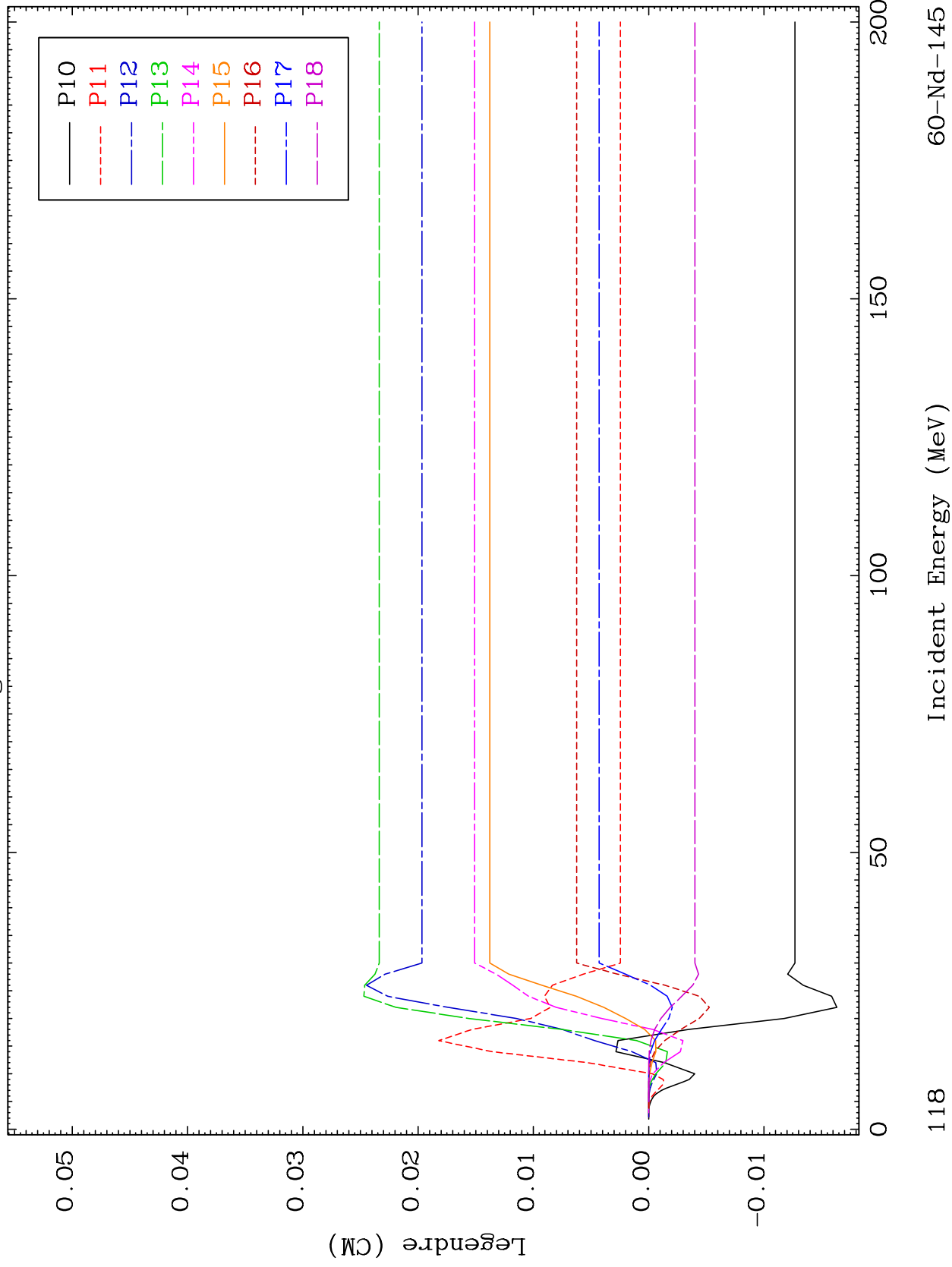
Incident Energy (MeV)

60-Nd-145

MAT 6034

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

60-Nd-145



118

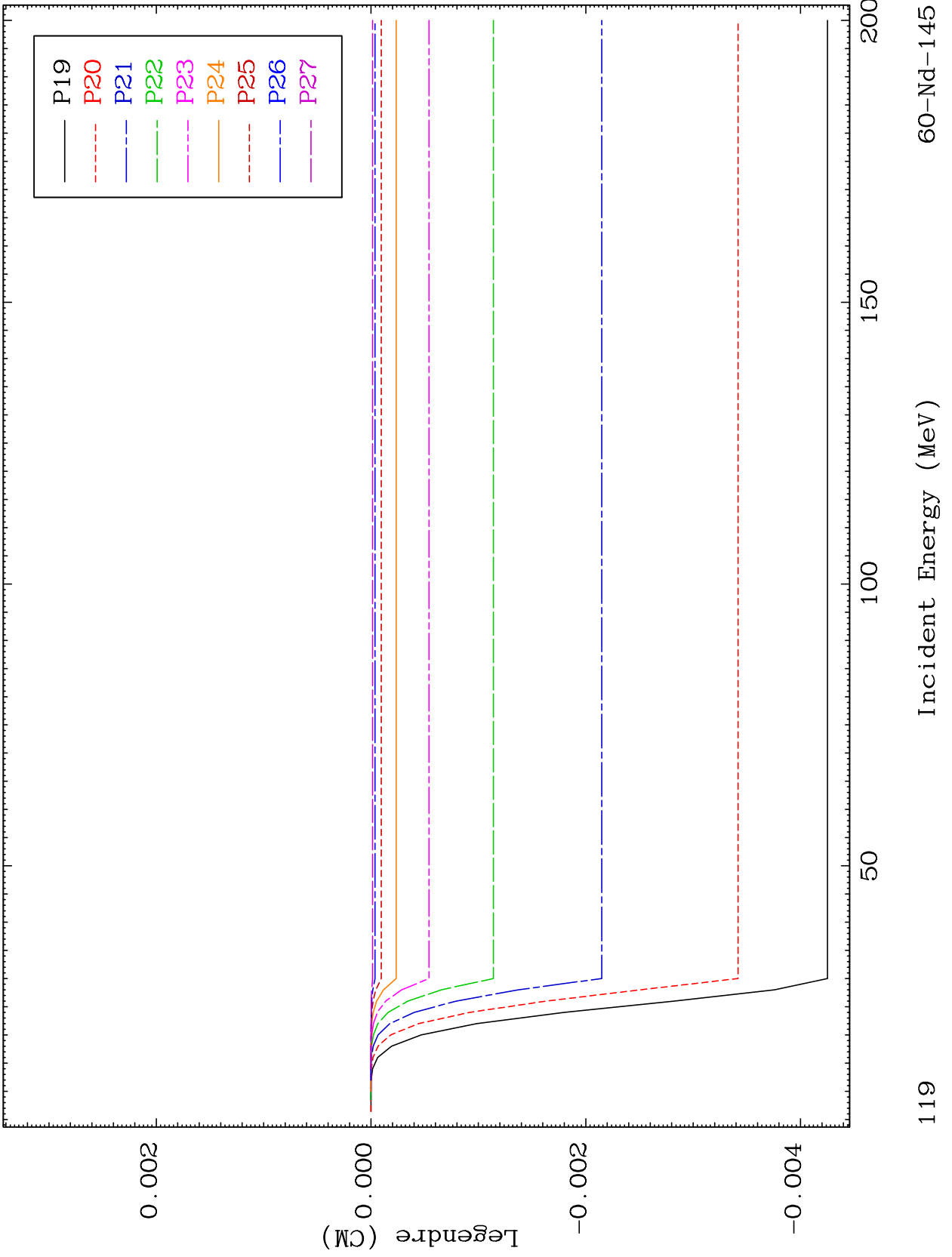
Incident Energy (MeV)

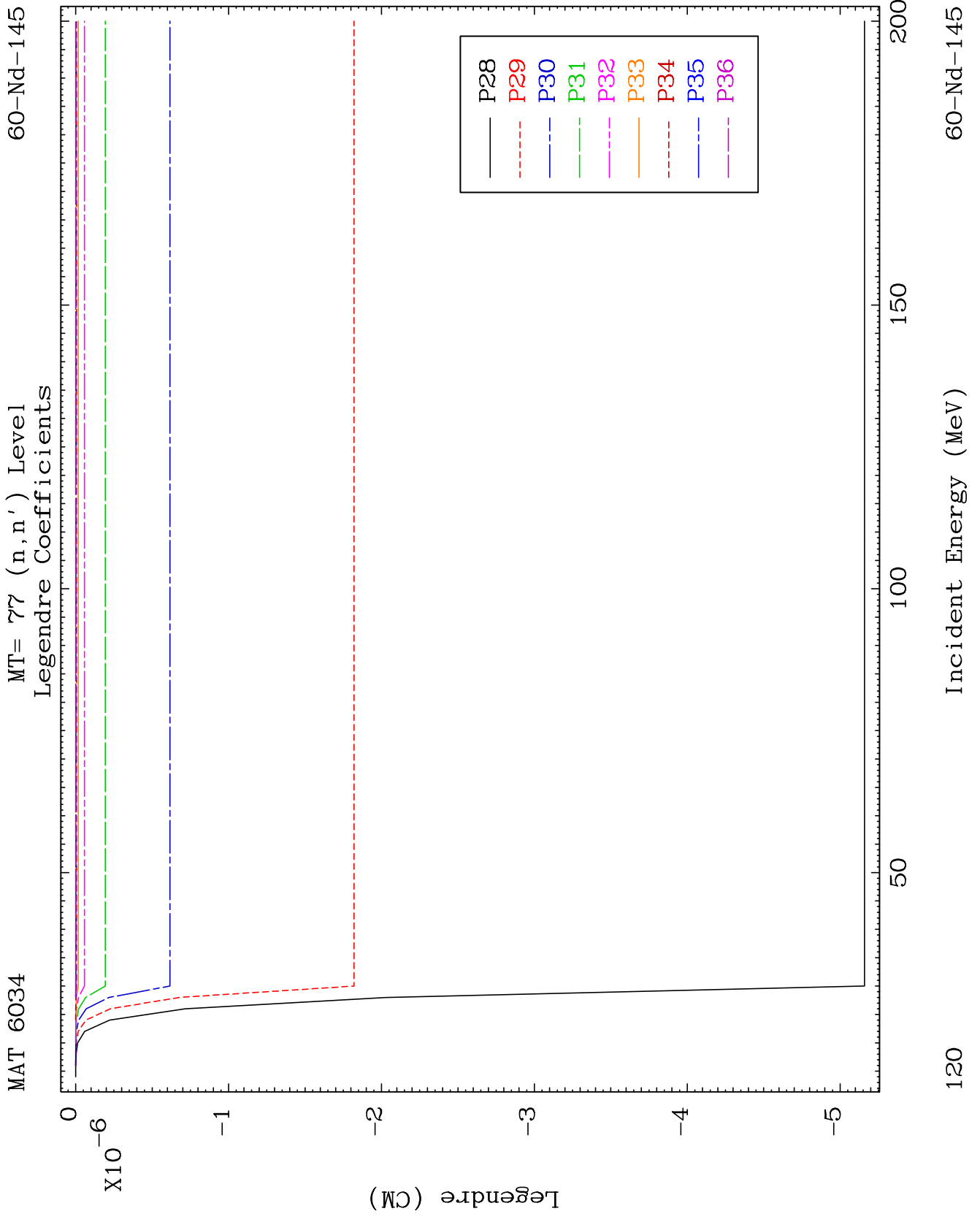
60-Nd-145

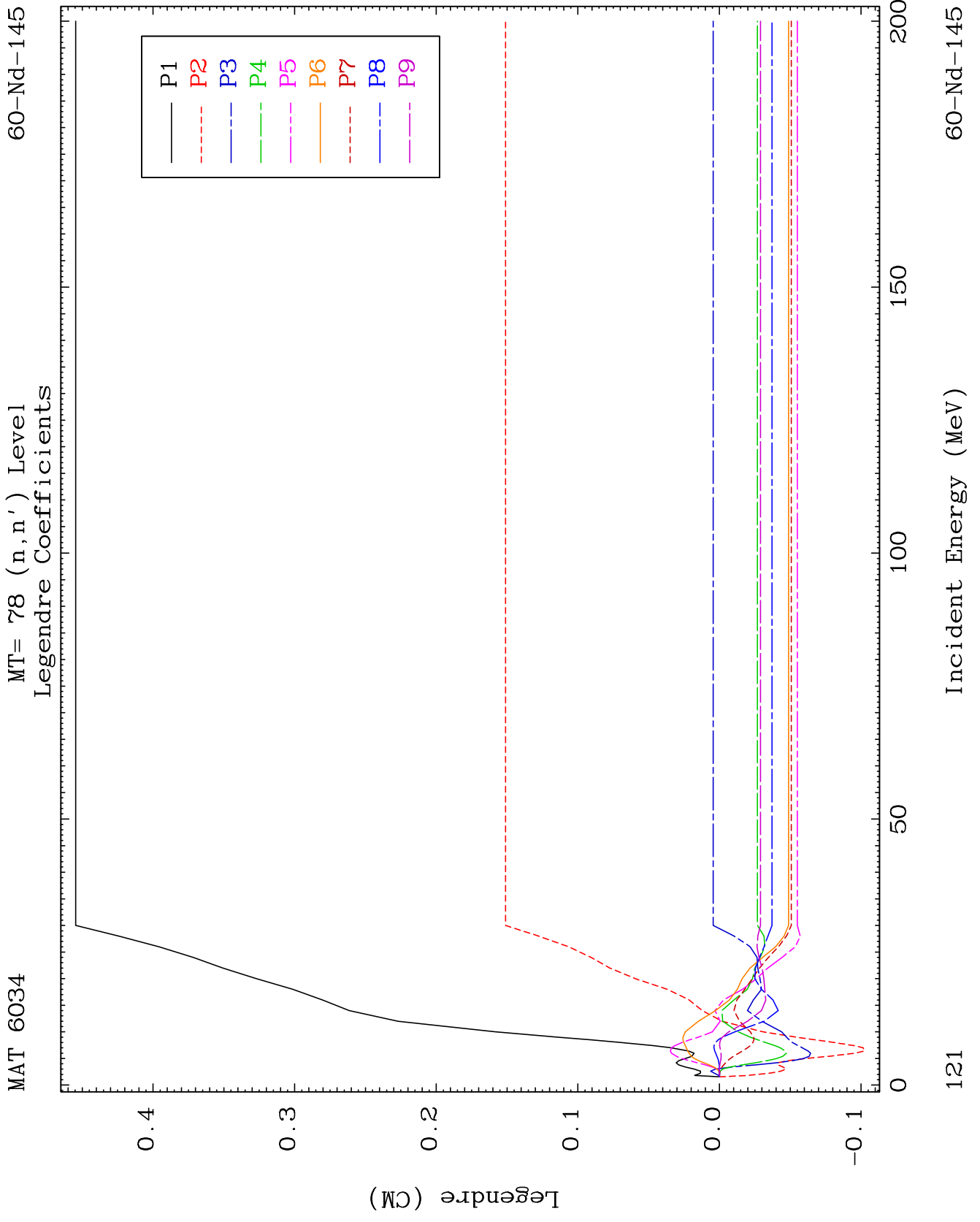
MAT 6034

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

60-Nd-145



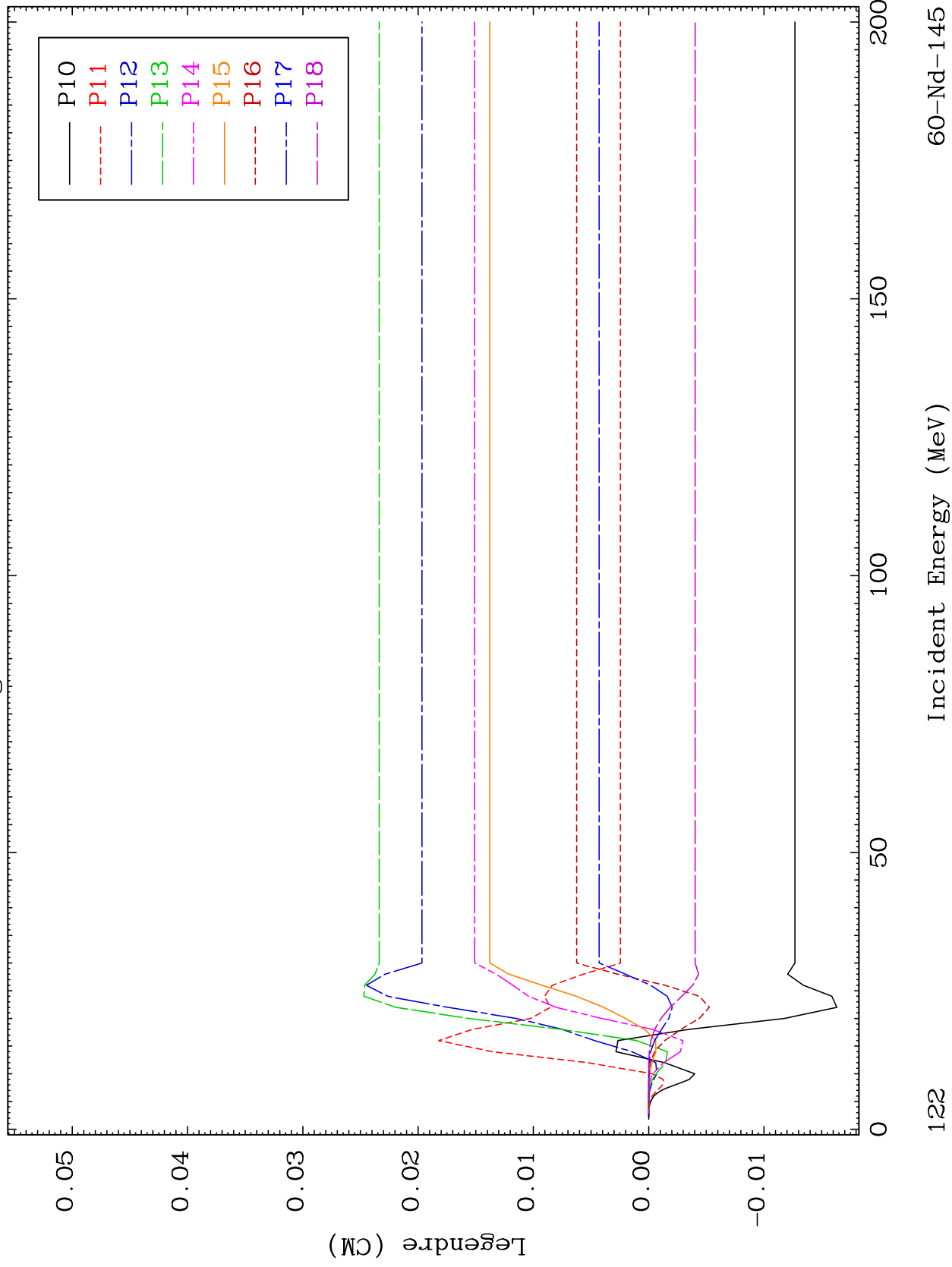




MAT 6034

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

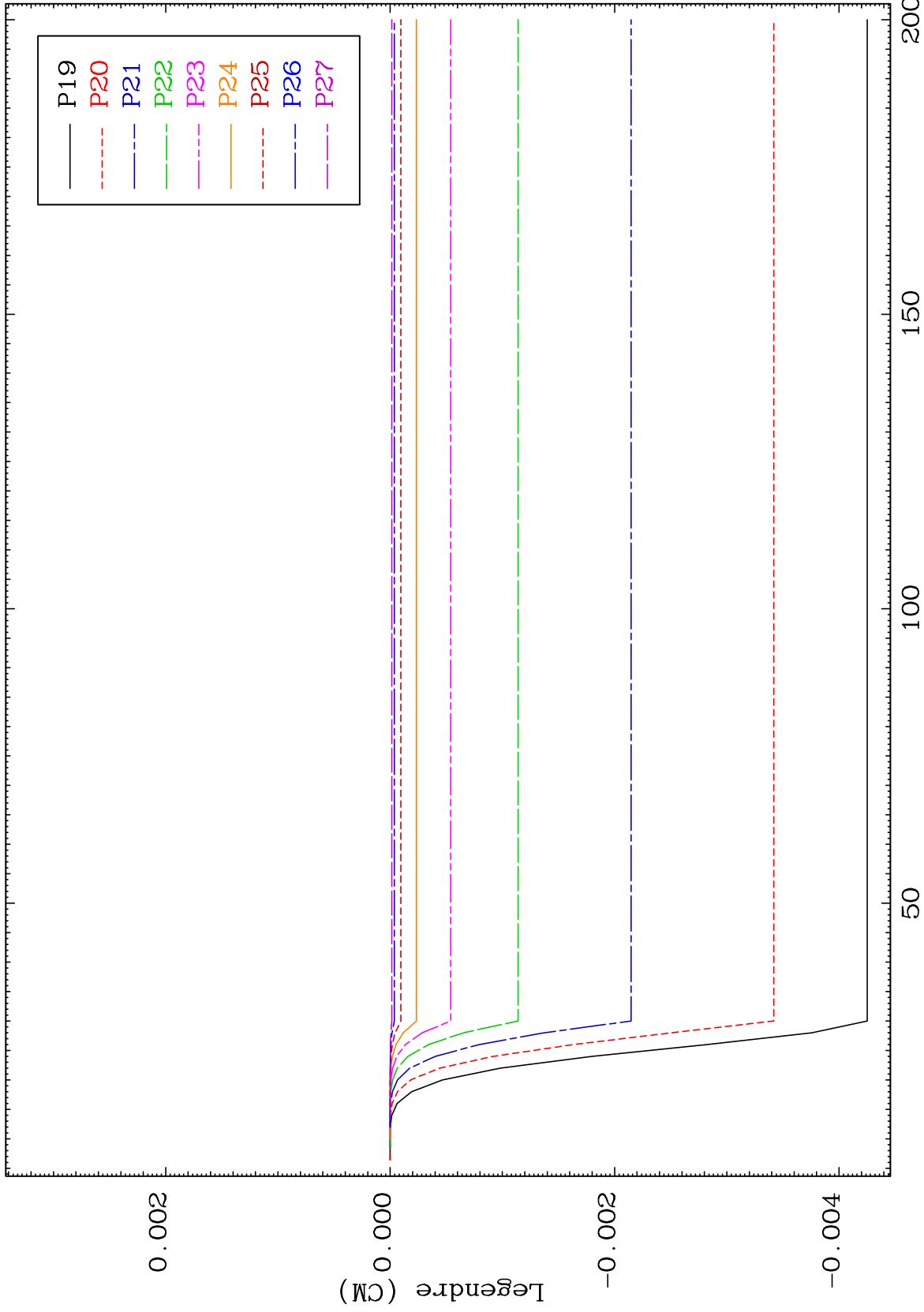
60-Nd-145



MAT 6034

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

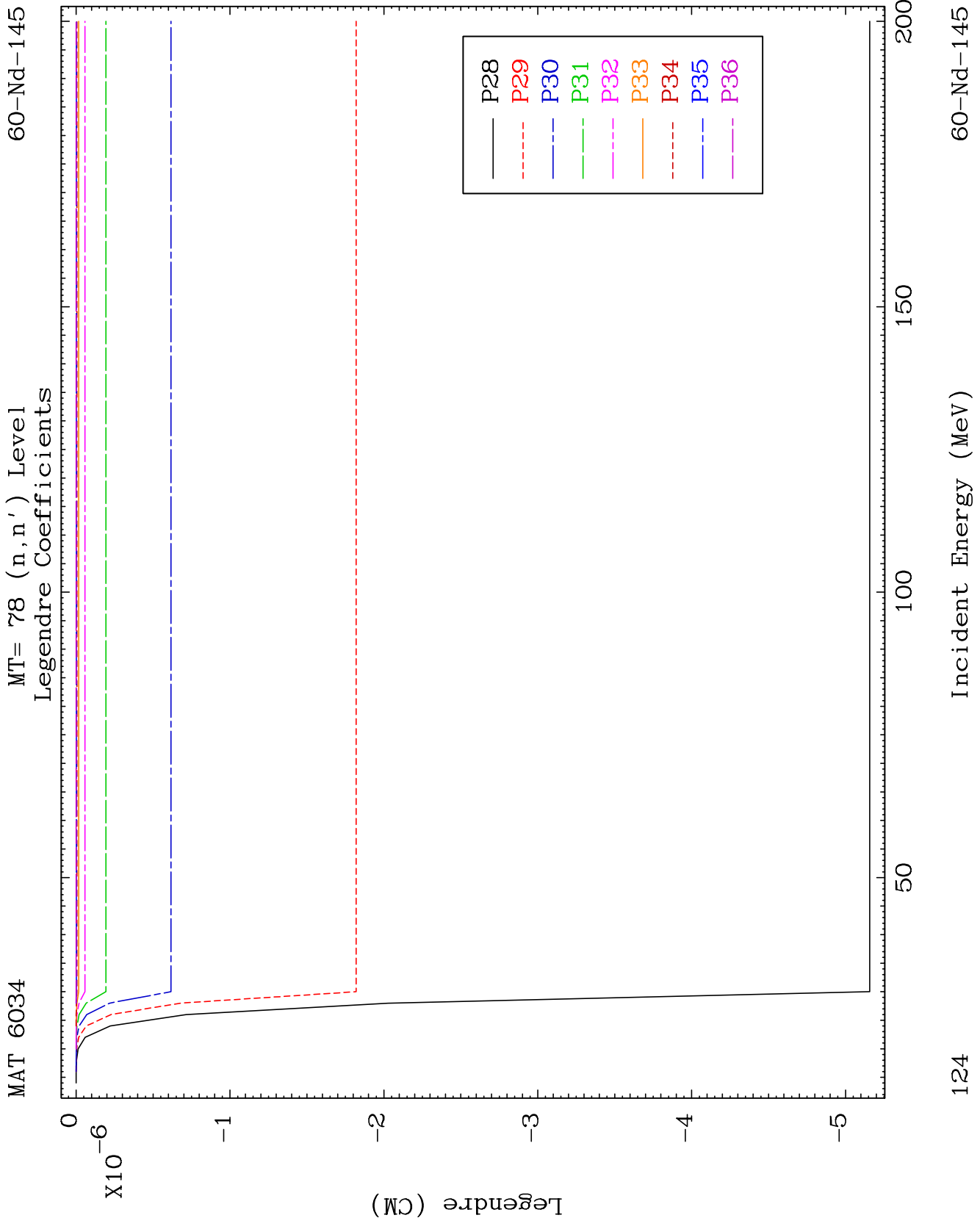
60-Nd-145

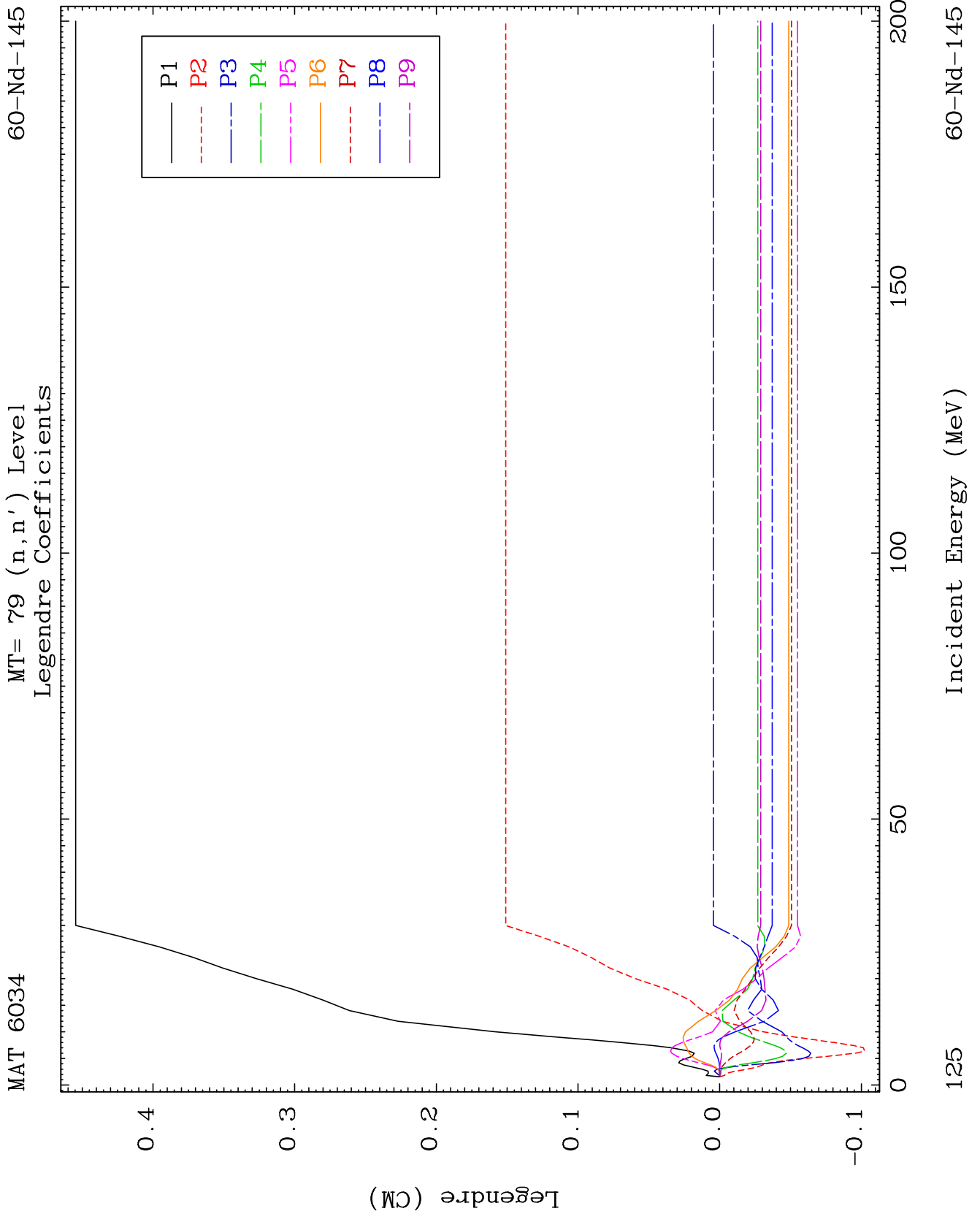


123

Incident Energy (MeV)

60-Nd-145

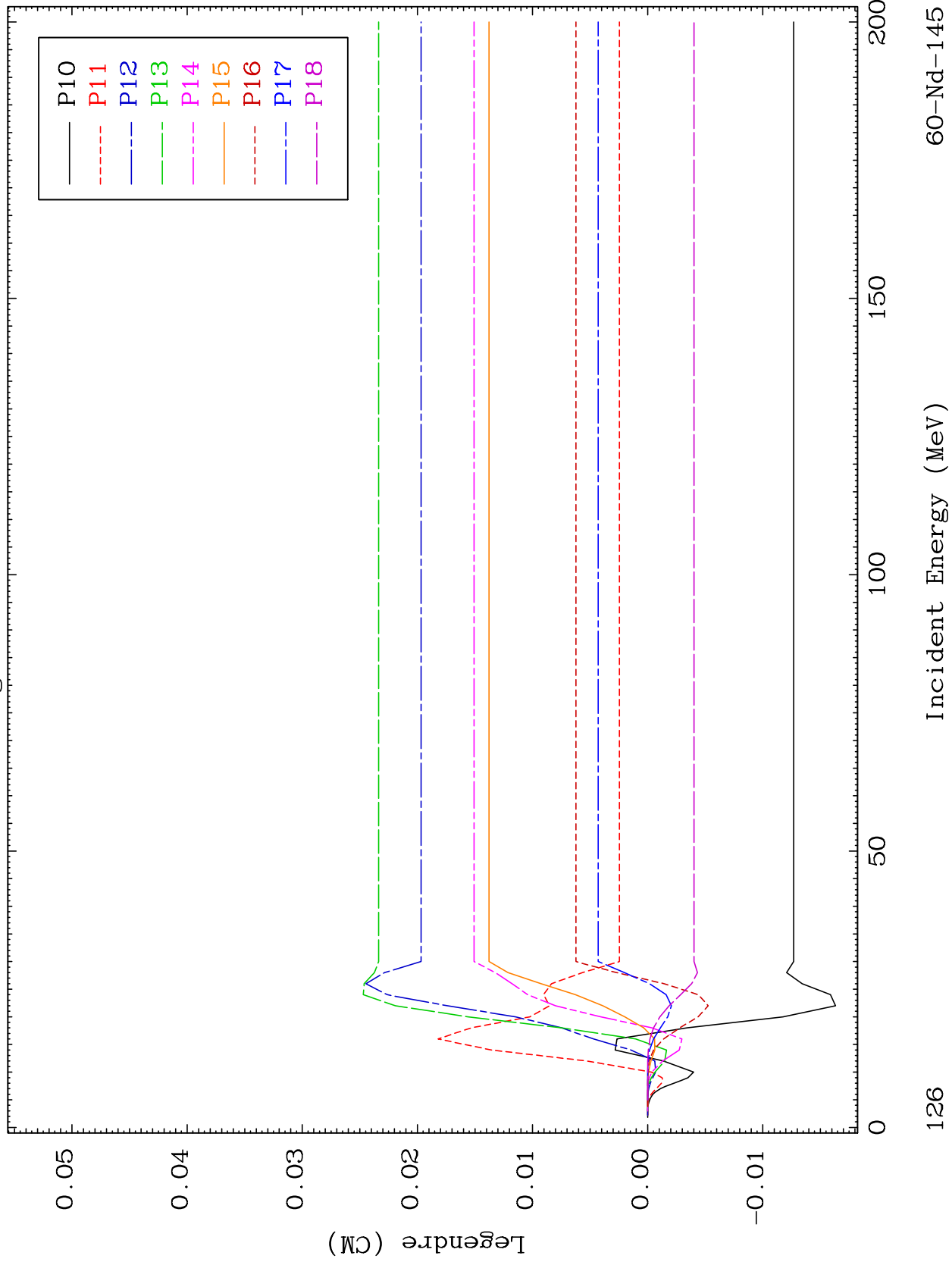




MAT 6034

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

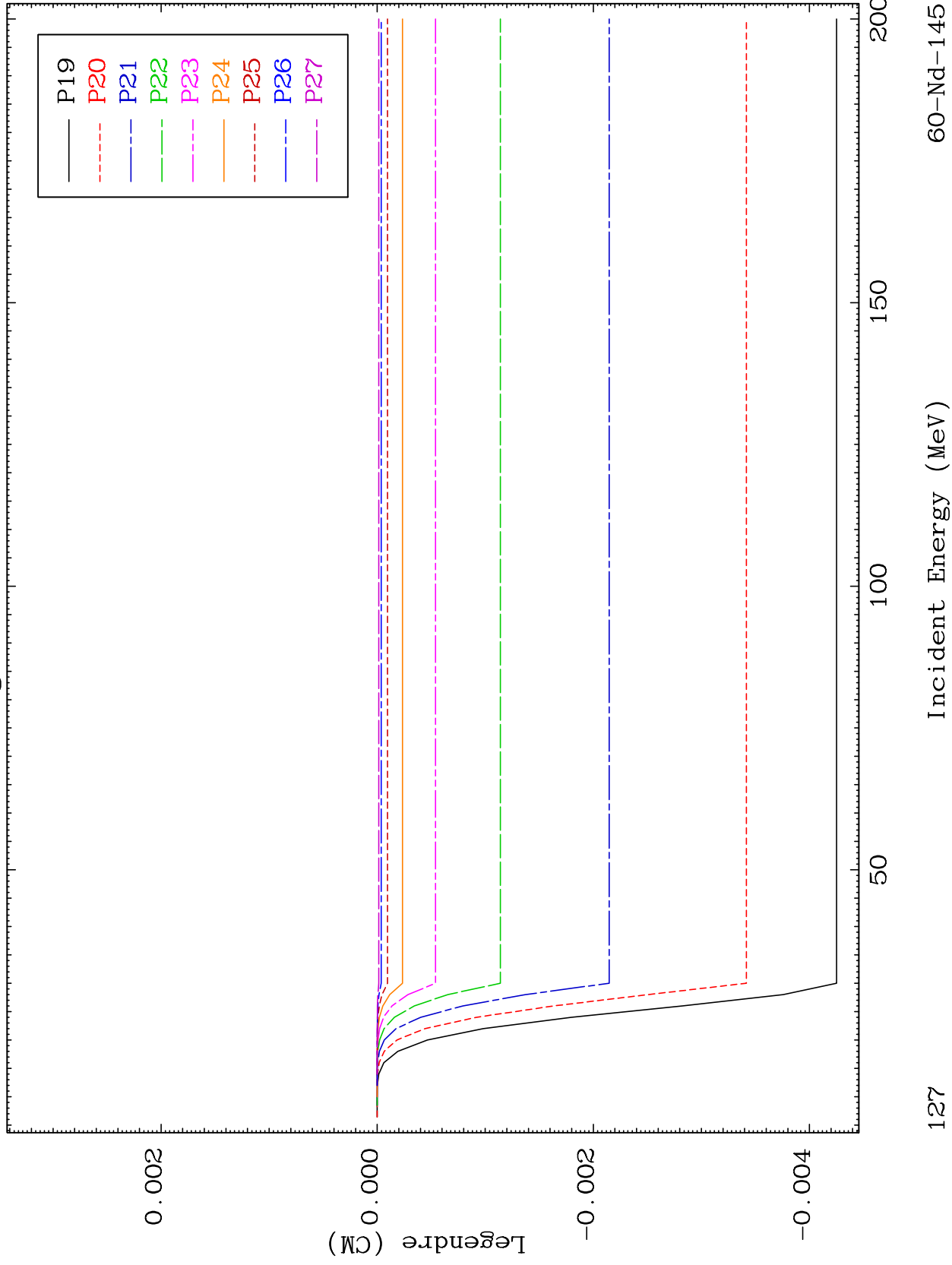
60-Nd-145



MAT 6034

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

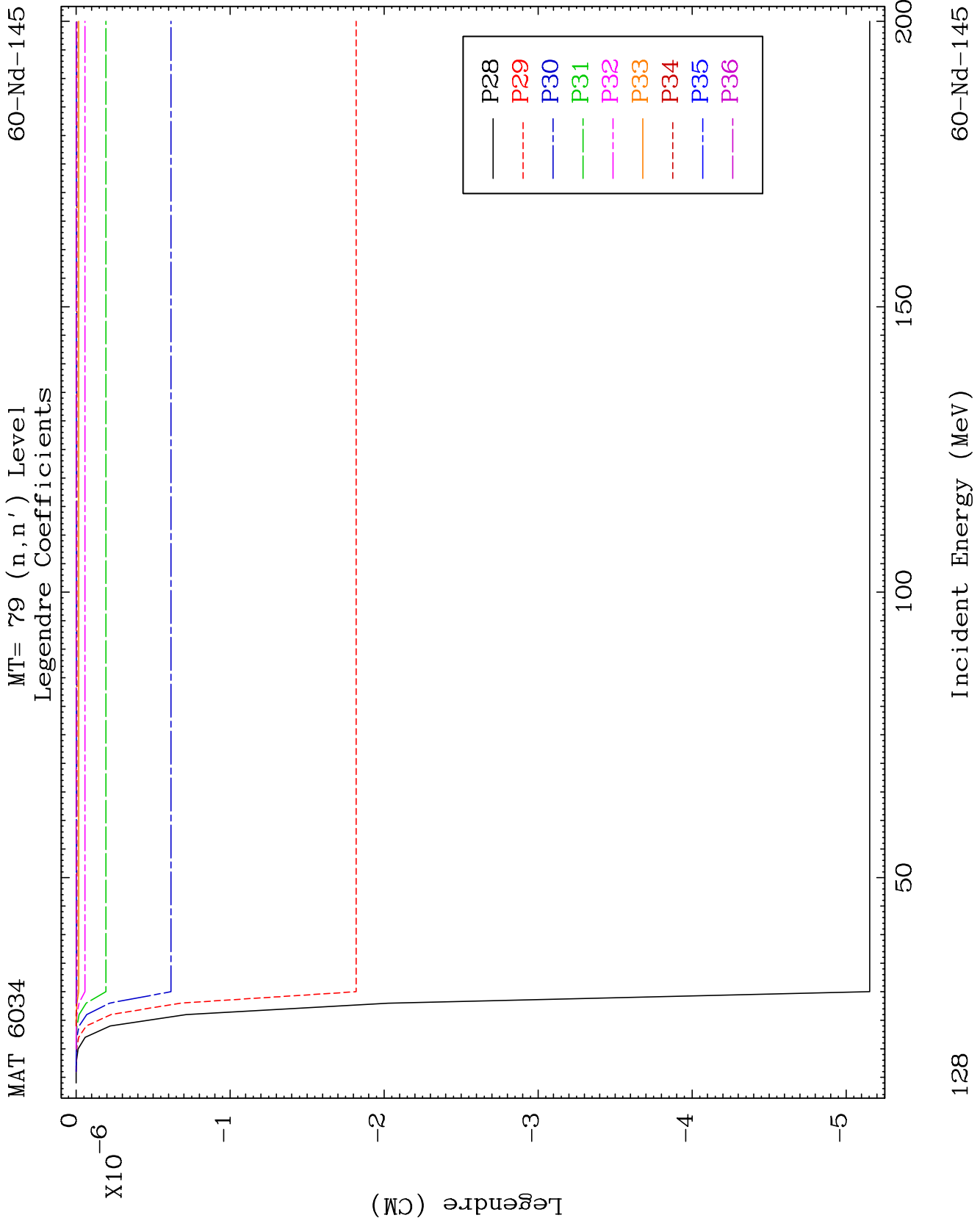
60-Nd-145



127

Incident Energy (MeV)

60-Nd-145

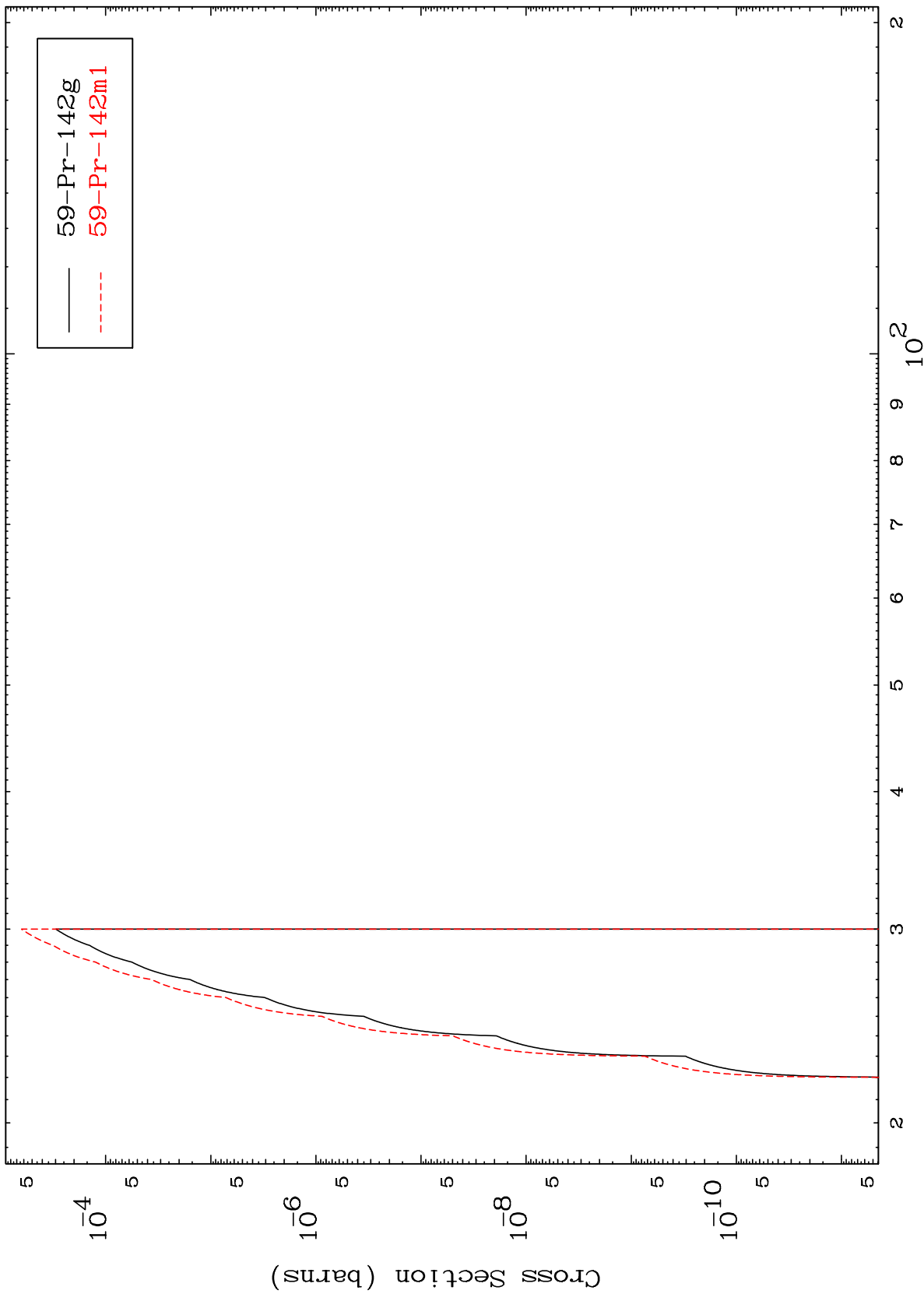


MAT 6034

(n,2n) d

60-Nd-145

Radionuclide Production Cross Section



129

Incident Energy (MeV)

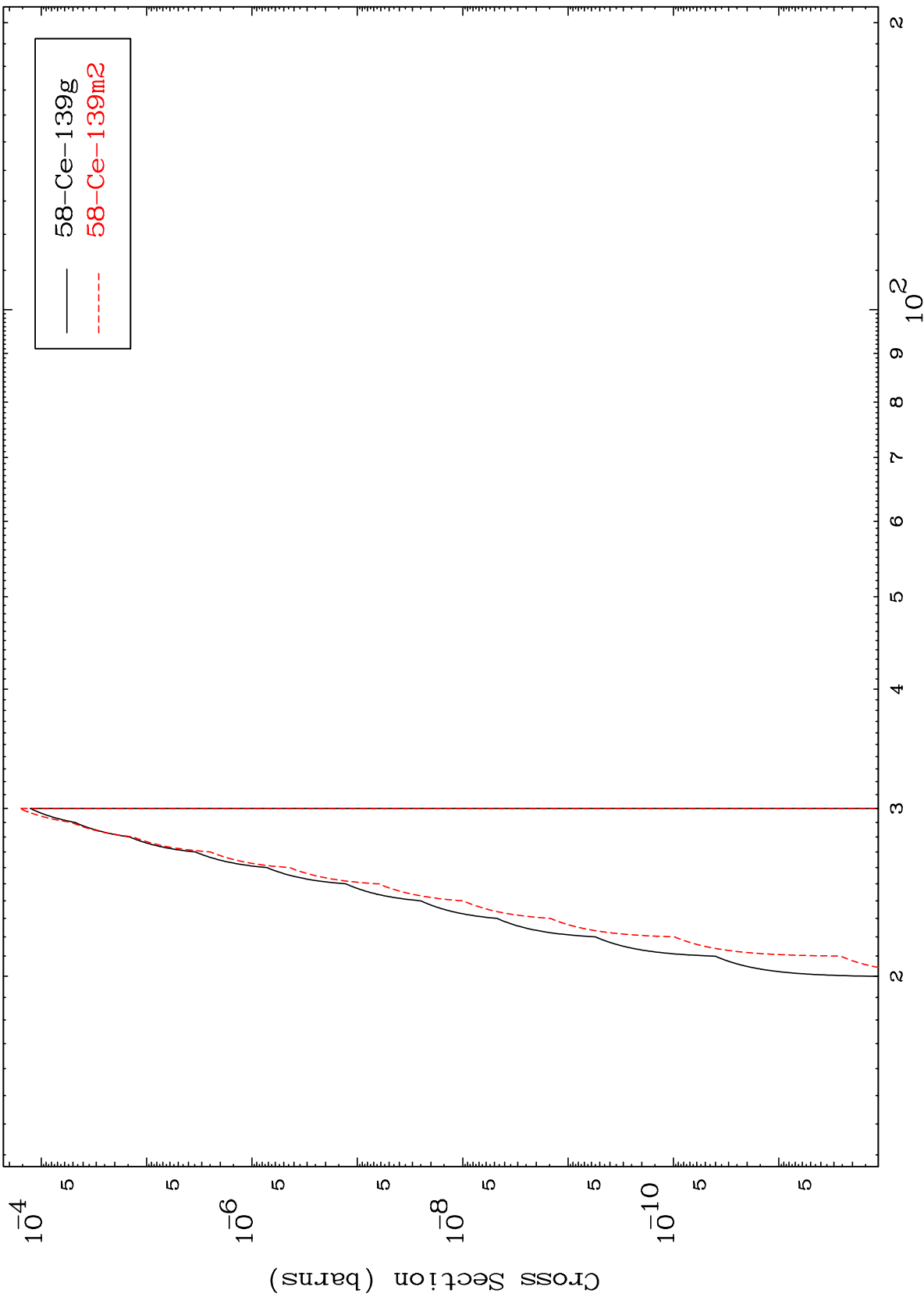
60-Nd-145

MAT 6034

$(n,3n) \alpha$

60-Nd-145

Radionuclide Production Cross Section



130

Incident Energy (MeV)

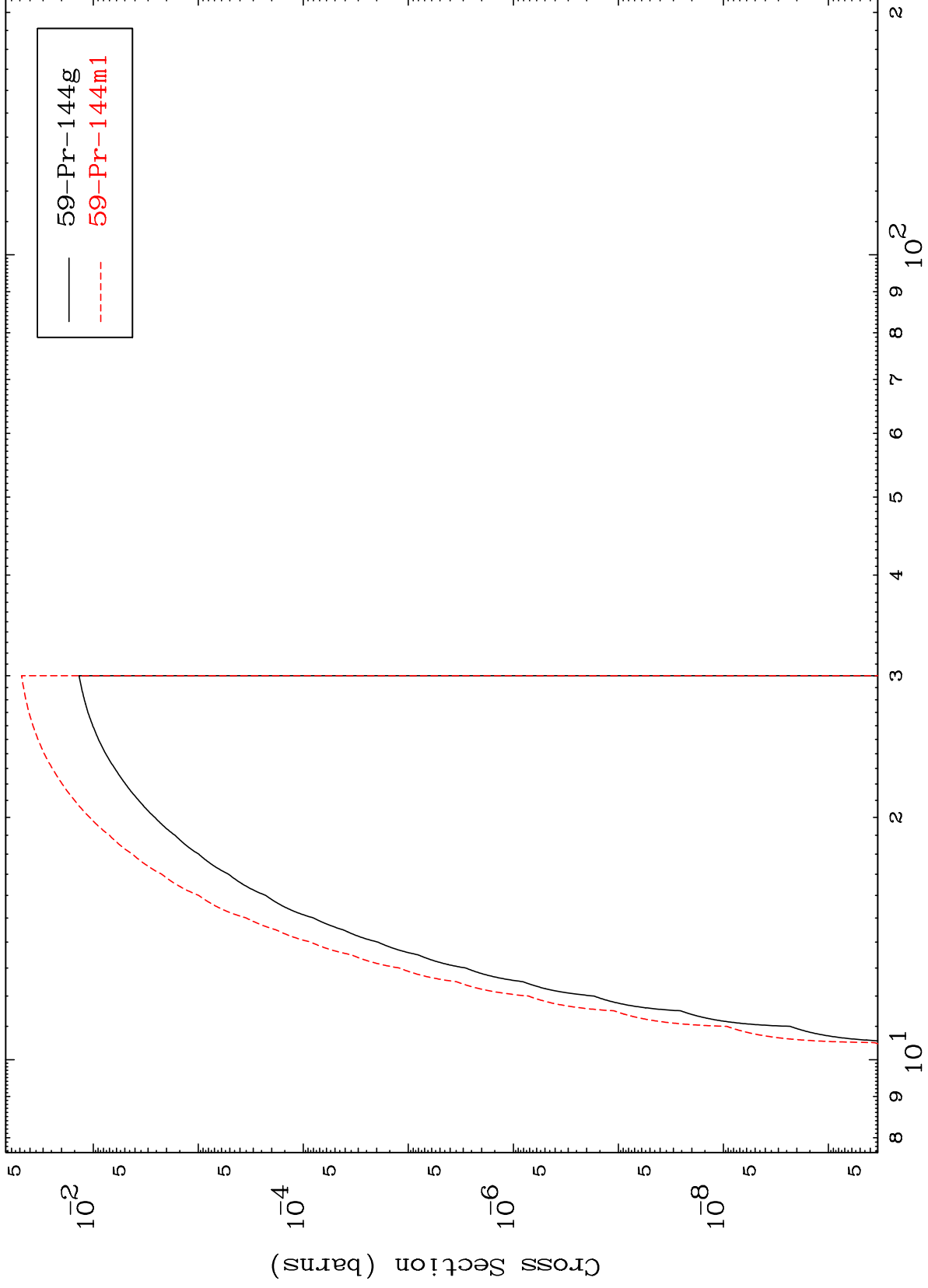
60-Nd-145

MAT 6034

(n,n') p

60-Nd-145

Radionuclide Production Cross Section



131

Incident Energy (MeV)

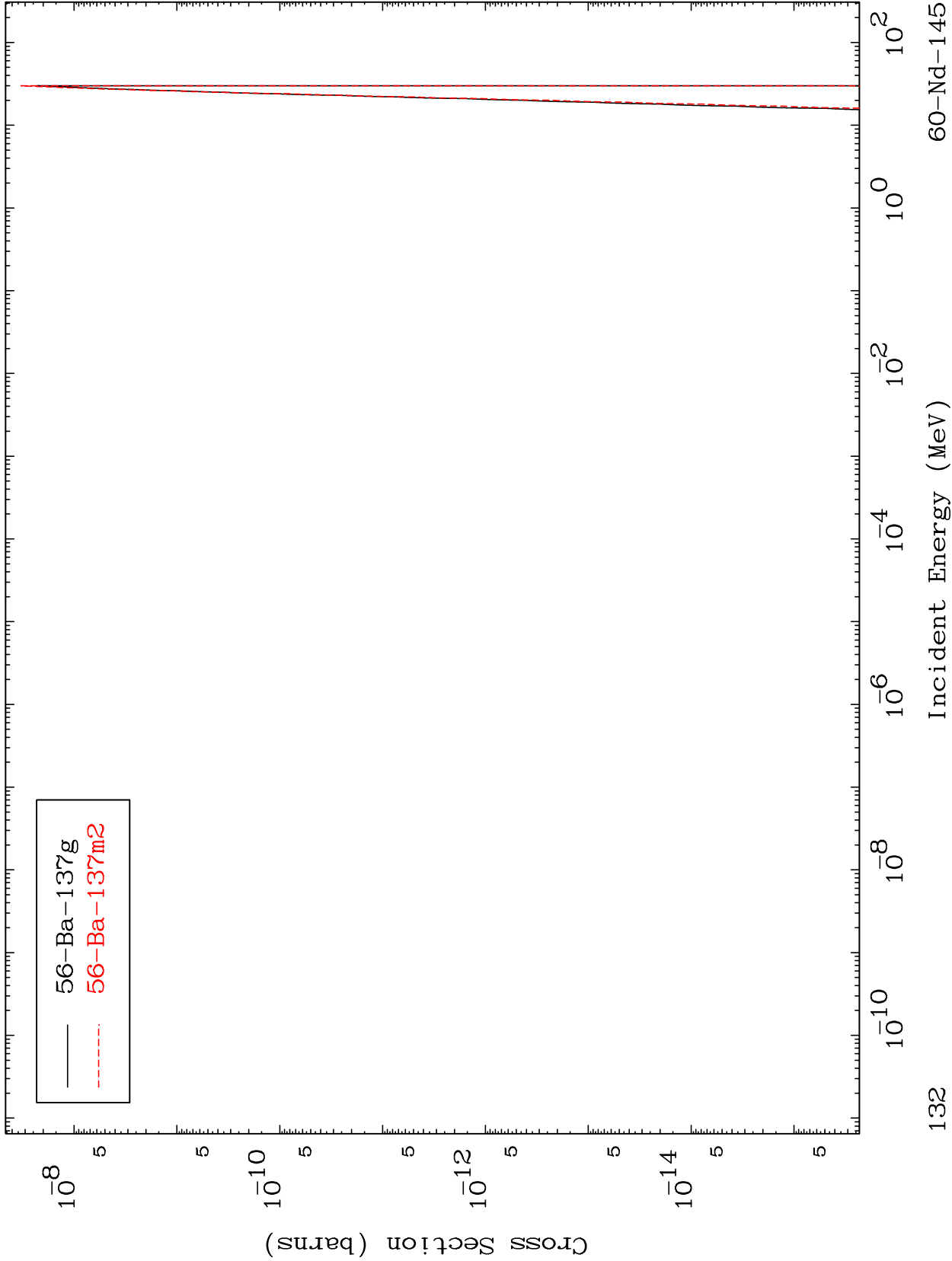
60-Nd-145

MAT 6034

(n,n') 2 α

60-Nd-145

Radionuclide Production Cross Section

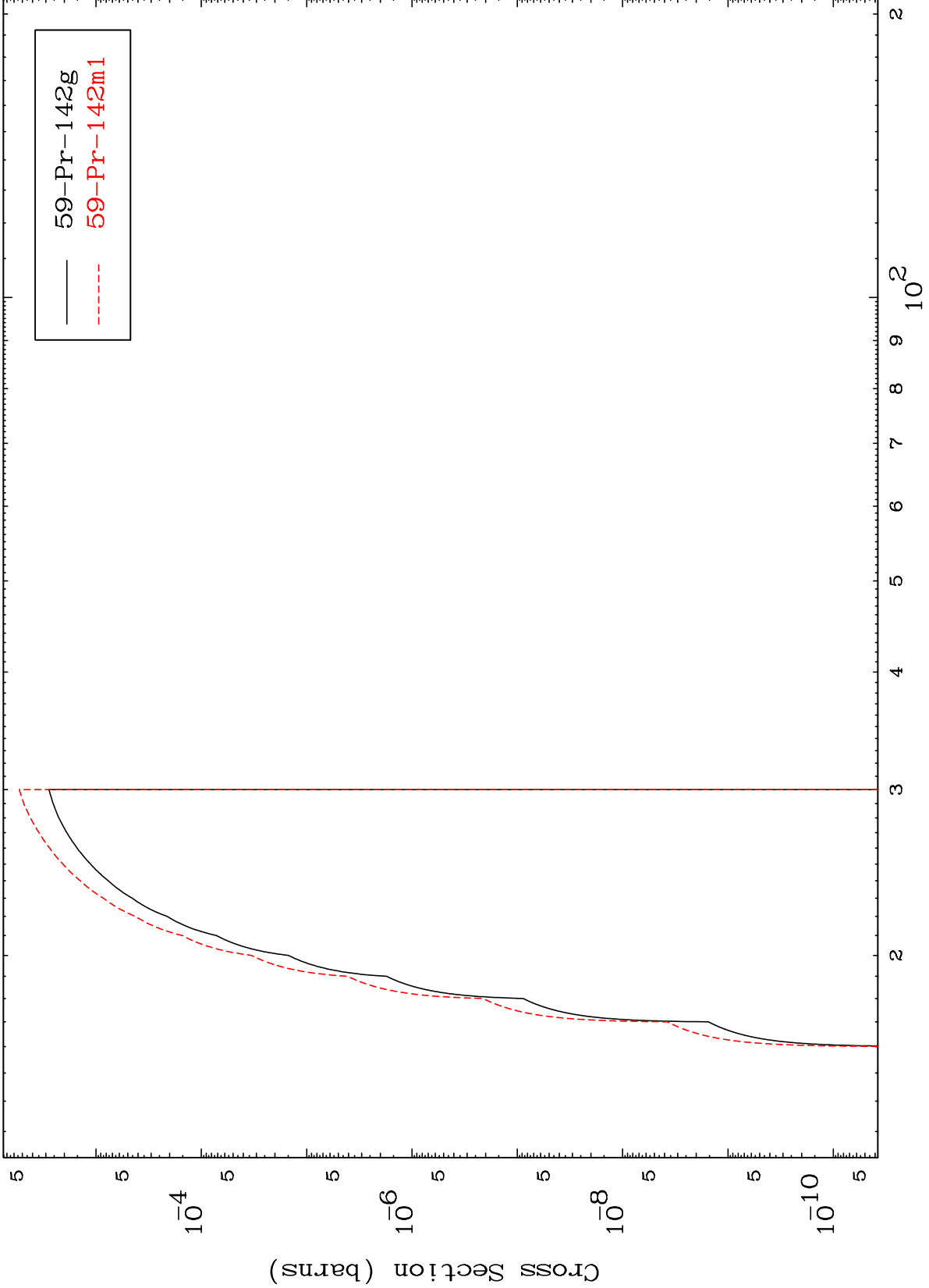


MAT 6034

(n,n') t

60-Nd-145

Radionuclide Production Cross Section



133

Incident Energy (MeV)

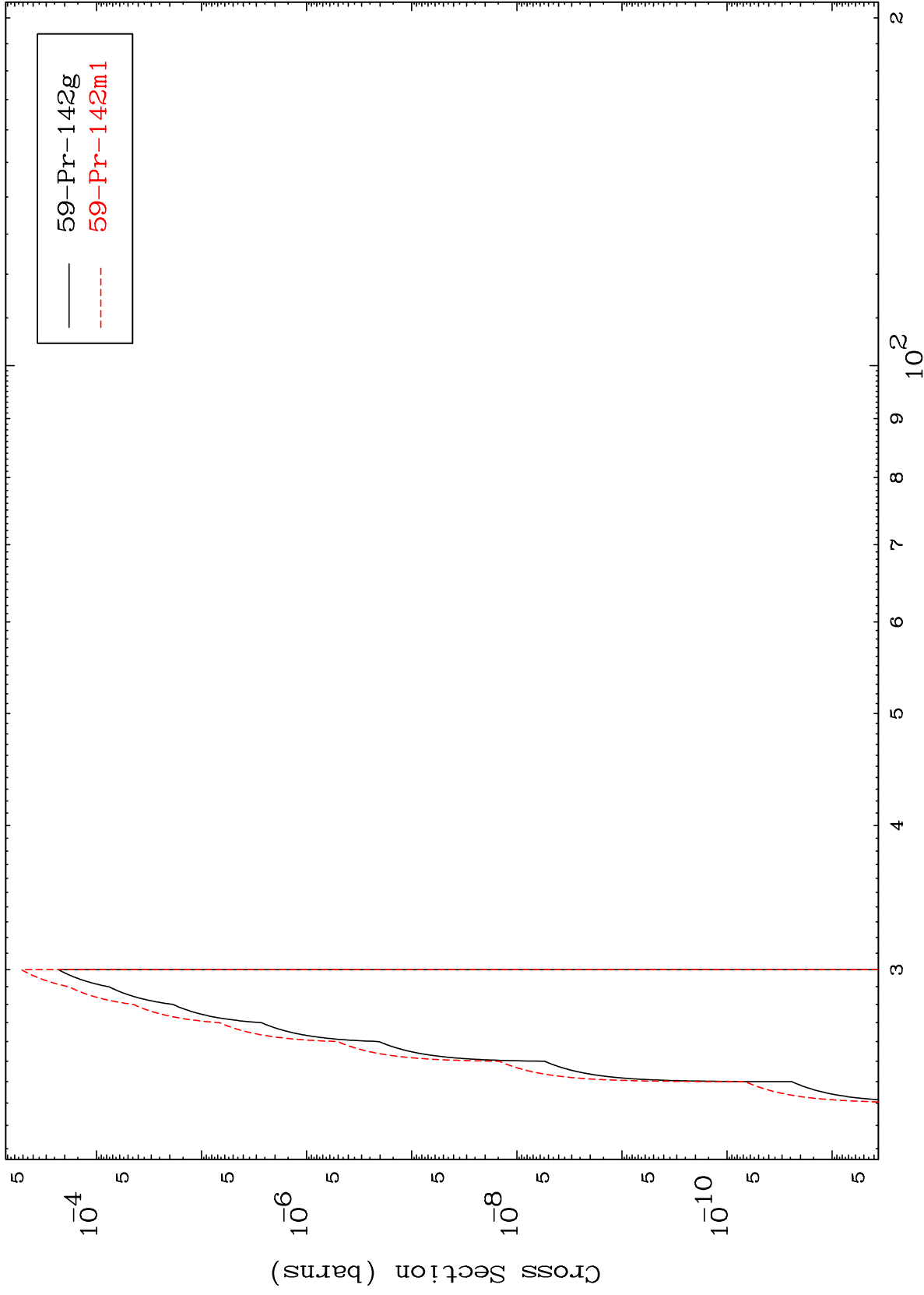
60-Nd-145

MAT 6034

(n,3n) p

60-Nd-145

Radionuclide Production Cross Section



134

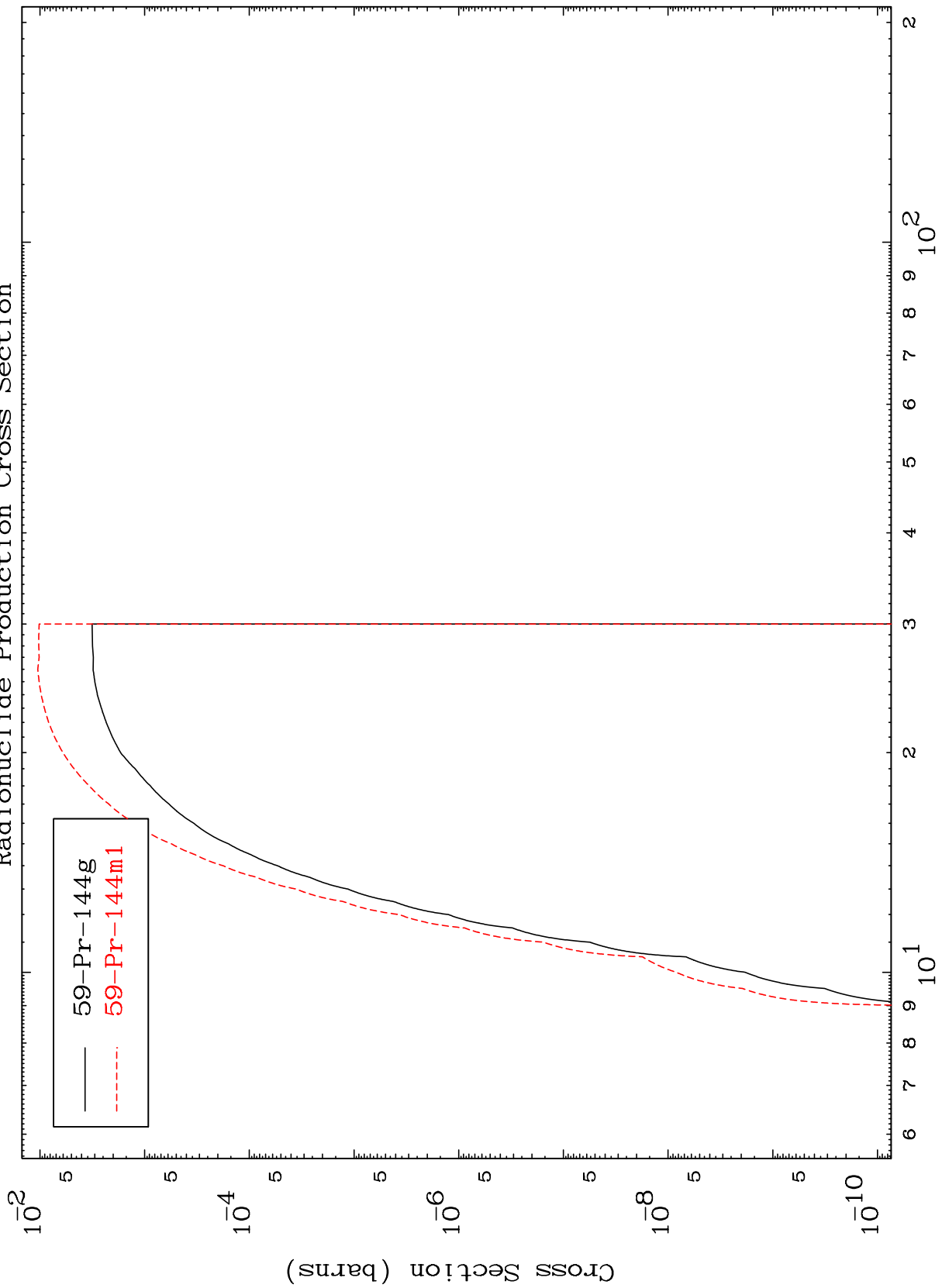
Incident Energy (MeV)

60-Nd-145

MAT 6034

60-Nd-145

(n,d)
Radionuclide Production Cross Section



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

60-Nd-145

Incident Energy (MeV)

135