

Program EVALPLOT
(Version 2018-1)

by

Dermott E. Cullen
(Present Contact Information)

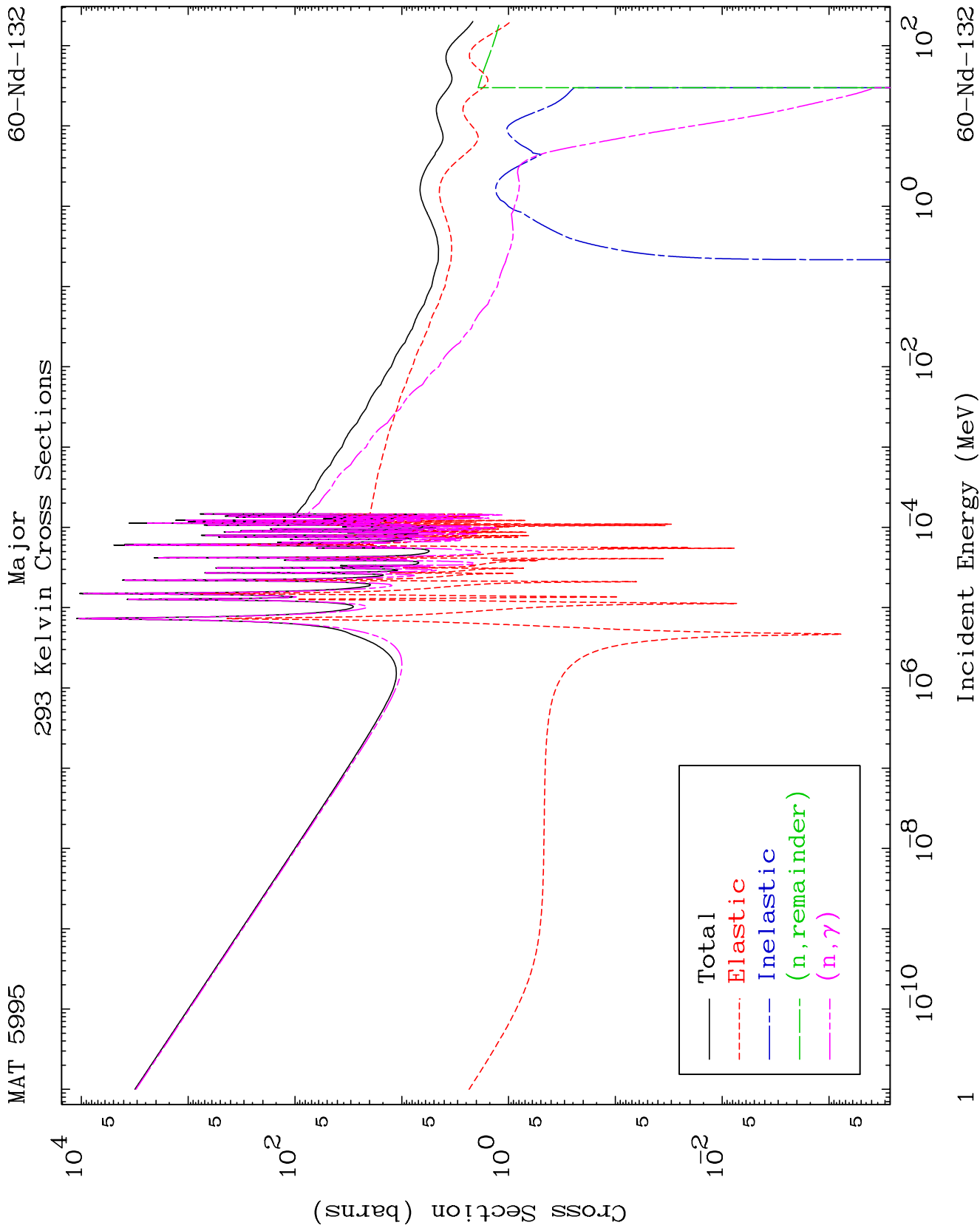
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.

Tele: 925-443-1911

E.Mail: redcullen1@comcast.net

Web: redcullen1.net/HOMEPAGE.NEW

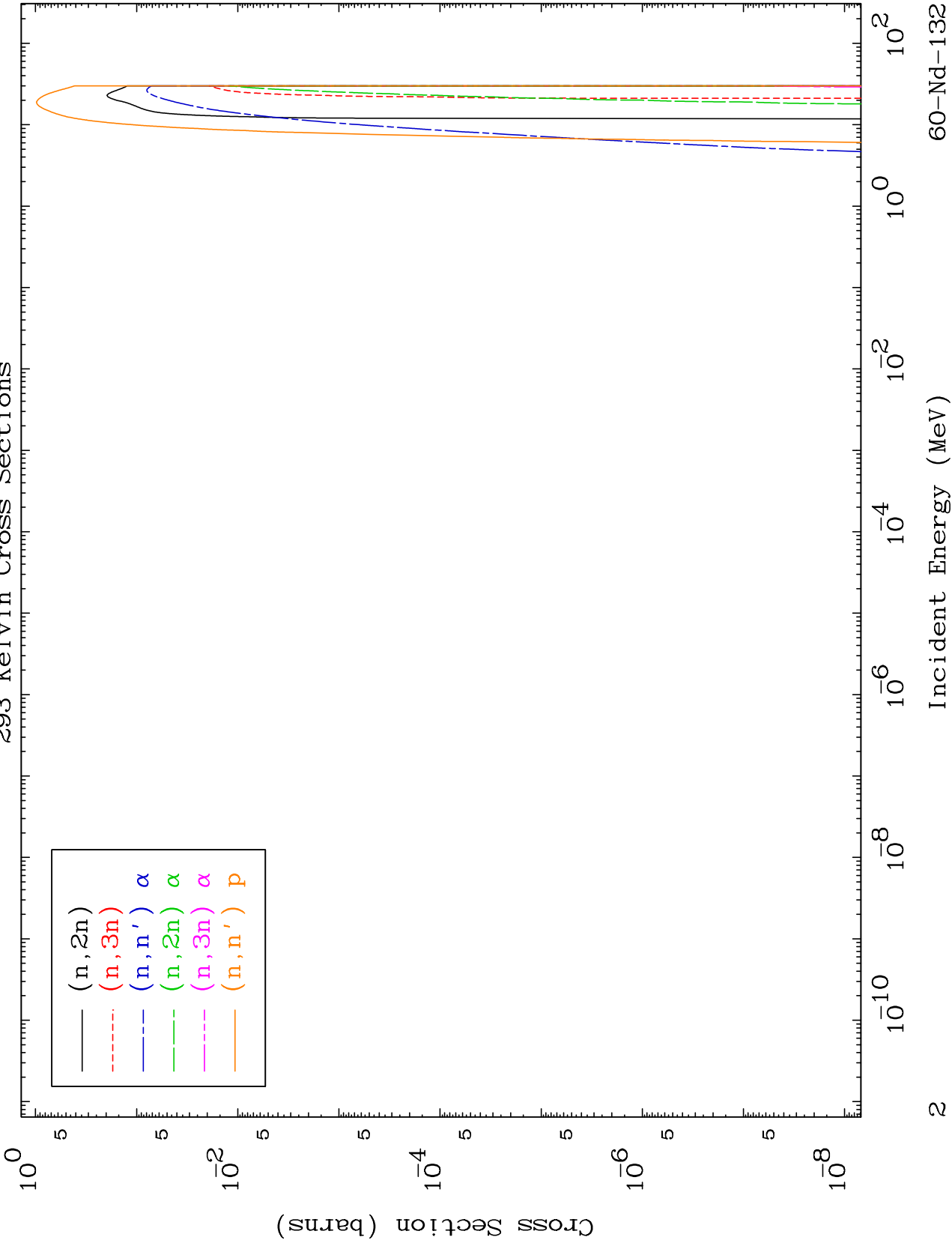
Press Mouse Button to Start



MAT 5995

Neutron Production
293 Kelvin Cross Sections

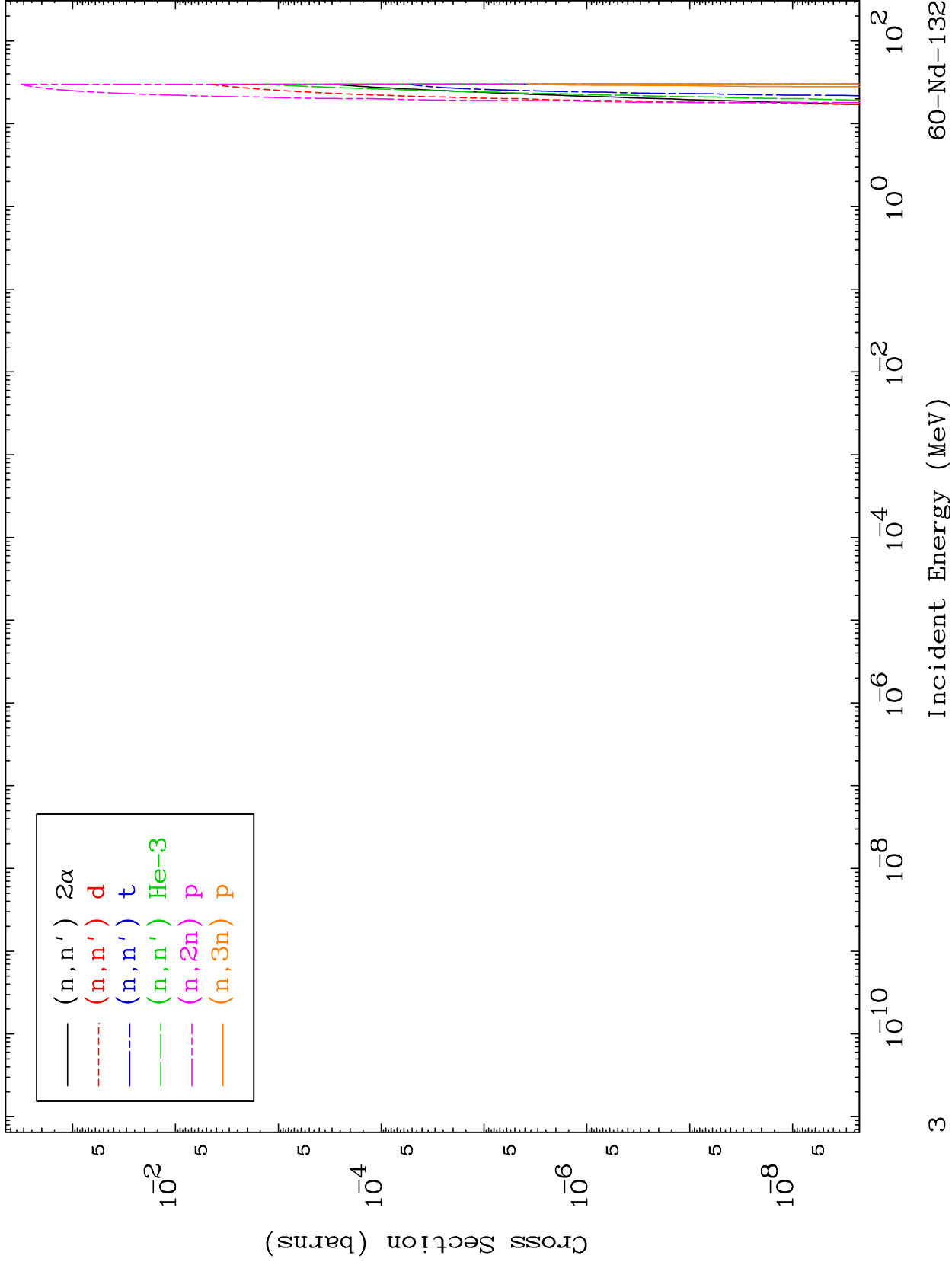
60-Nd-132



MAT 5995

Neutron Production
293 Kelvin Cross Sections

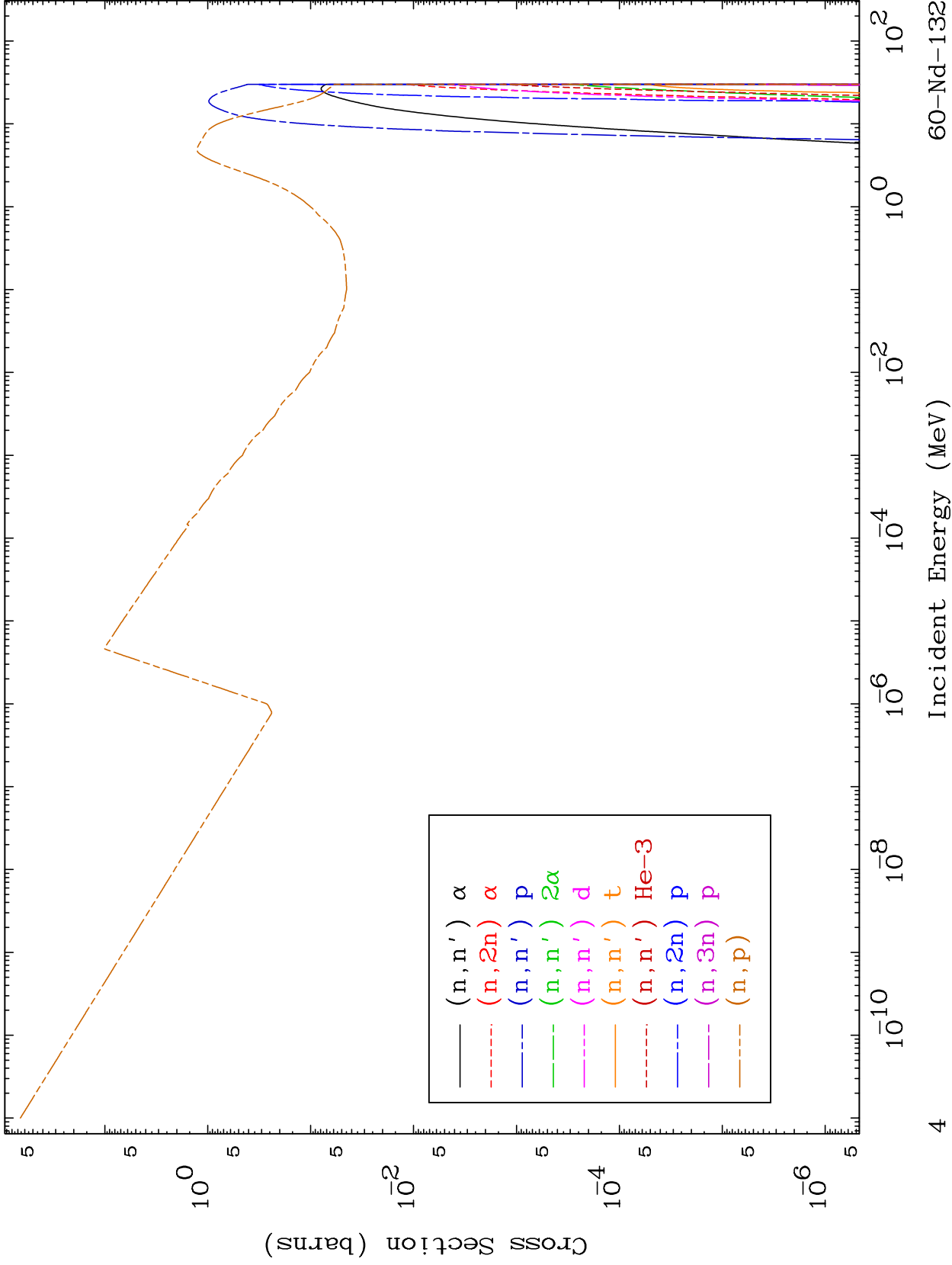
60-Nd-132

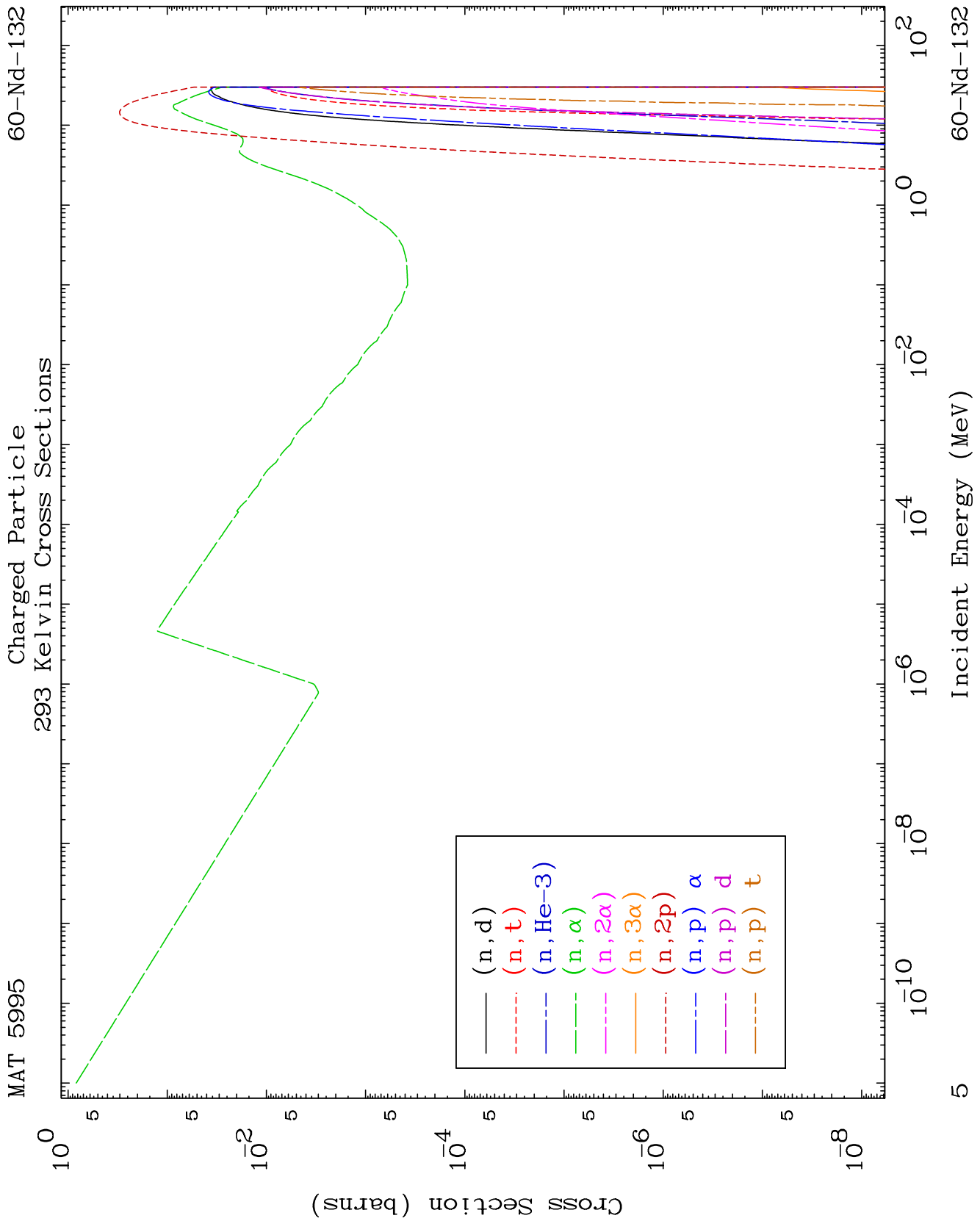


MAT 5995

Charged Particle
293 Kelvin Cross Sections

60-Nd-132

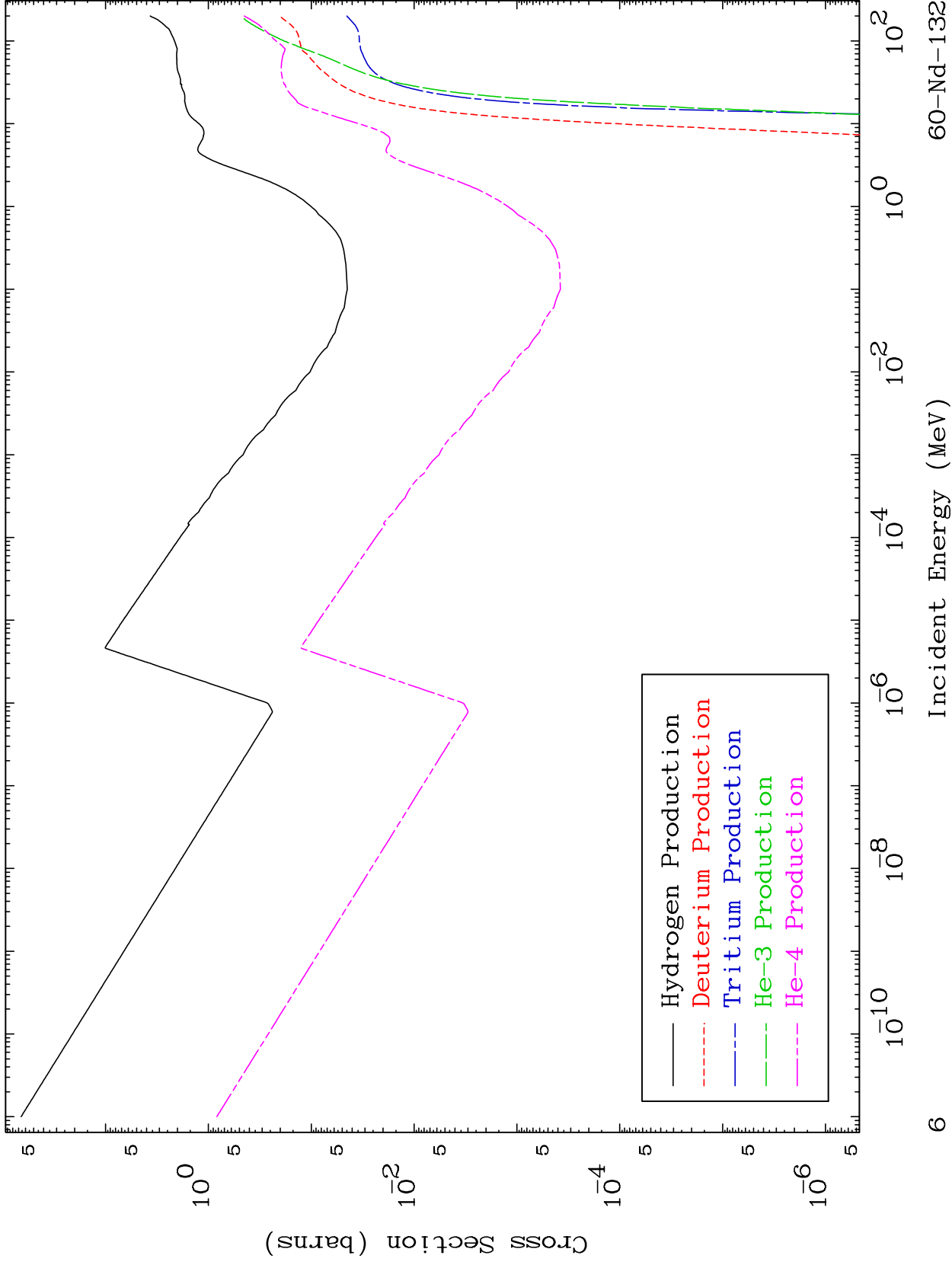


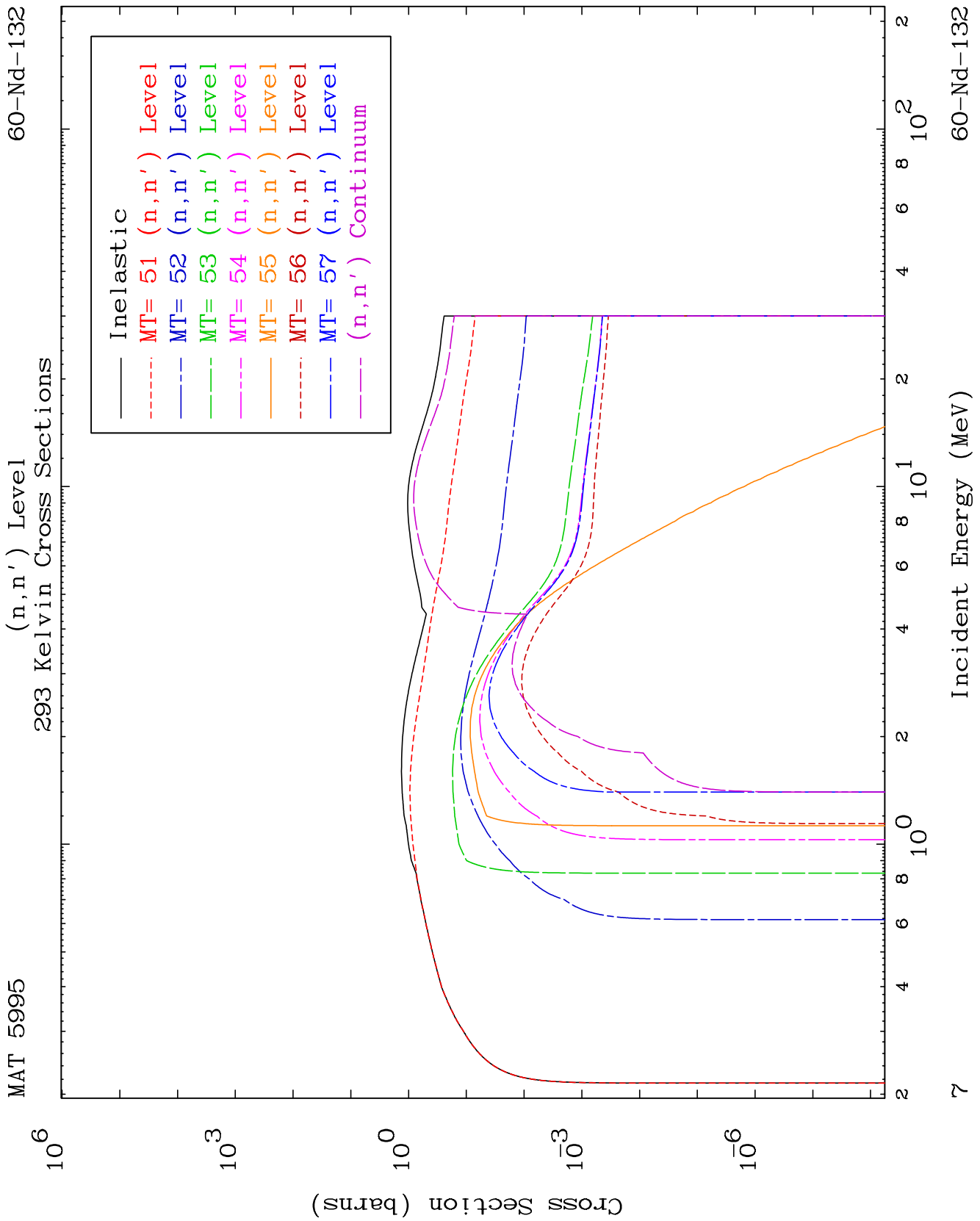


MAT 5995

Particle Production
293 Kelvin Cross Sections

60-Nd-132

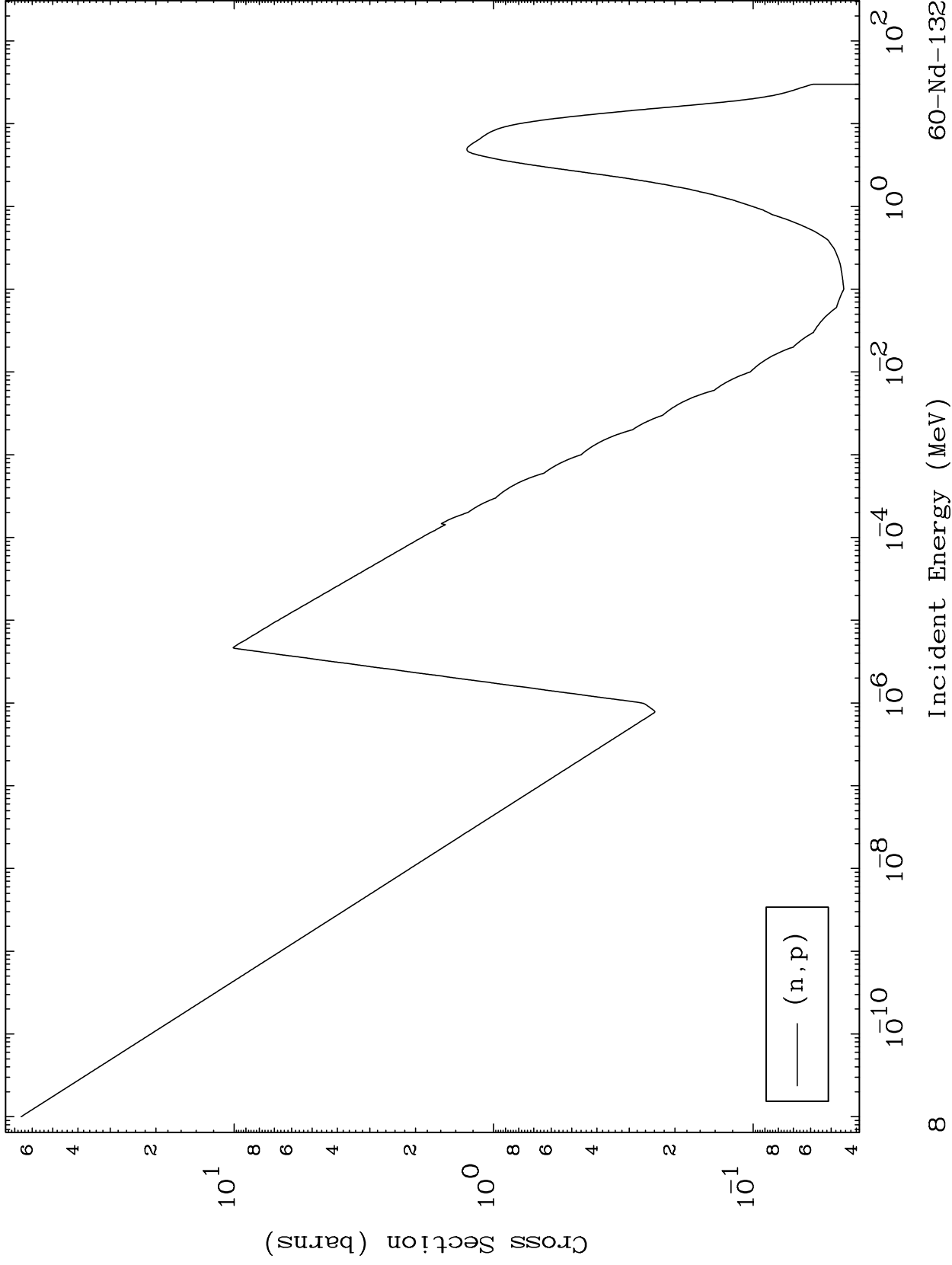




MAT 5995

(n,p) Levels
293 Kelvin Cross Sections

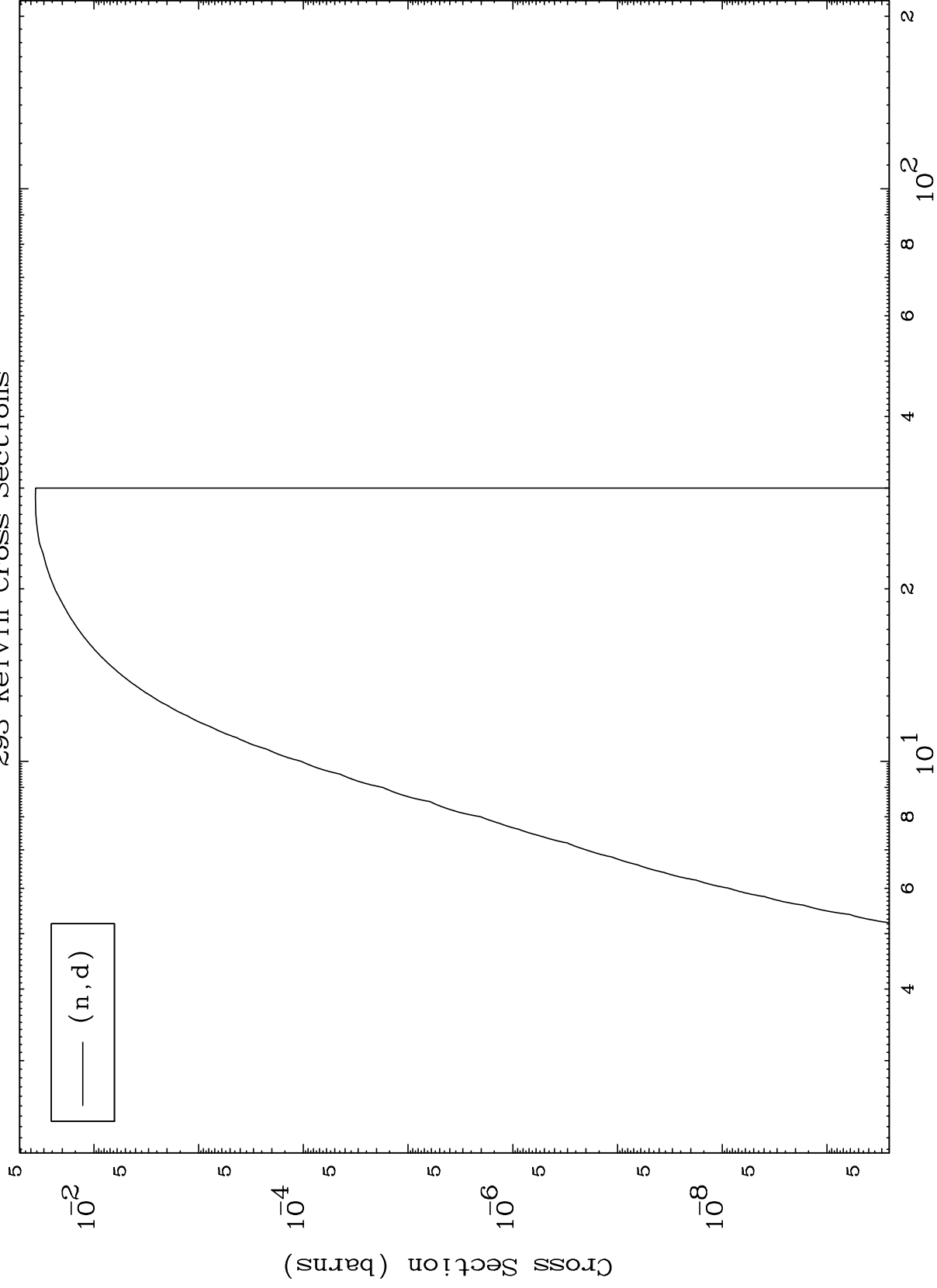
60-Nd-132



MAT 5995

(n,d) Levels
293 Kelvin Cross Sections

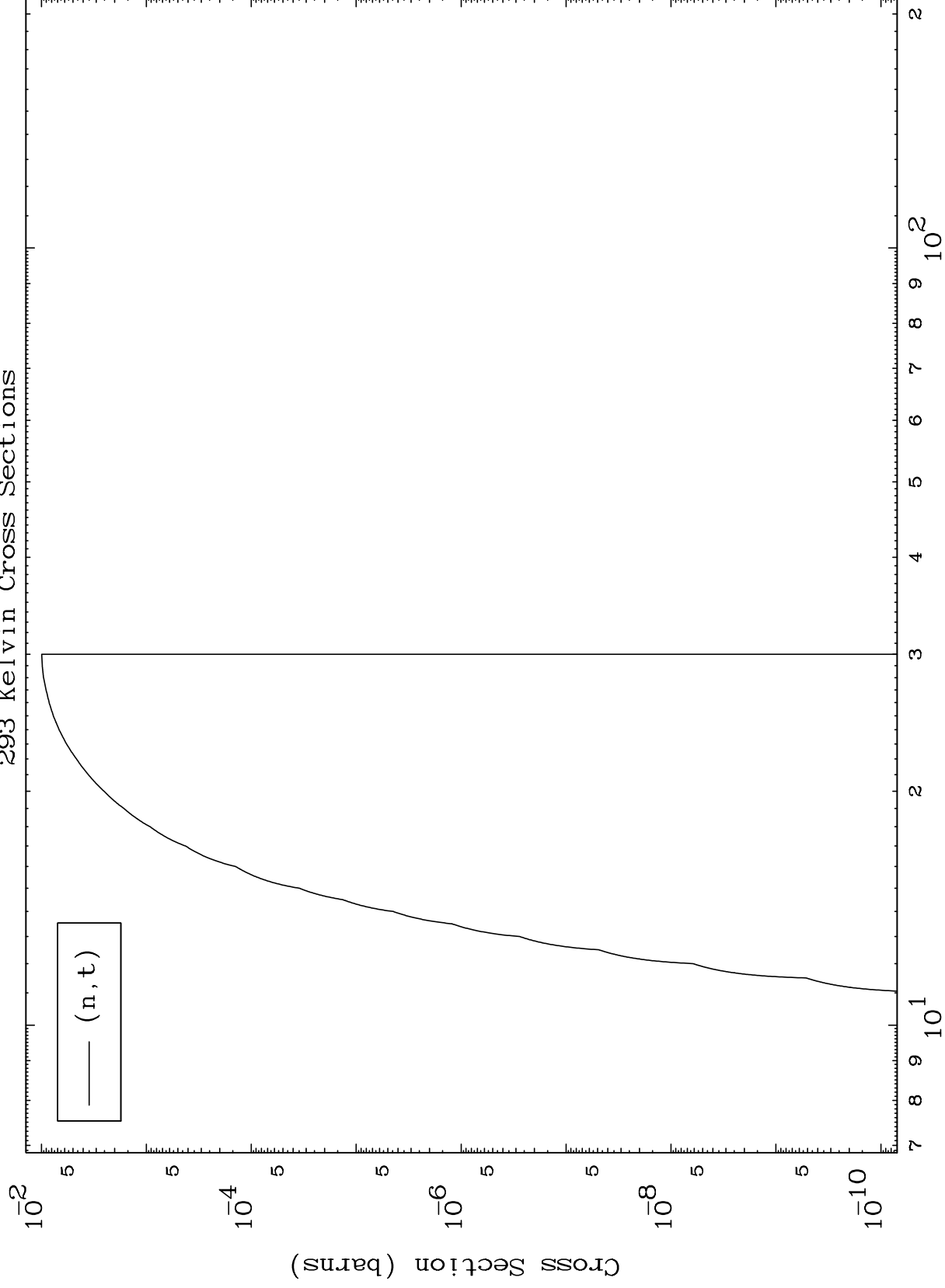
60-Nd-132



MAT 5995

(n,t) Levels
293 Kelvin Cross Sections

60-Nd-132



Incident Energy (MeV)

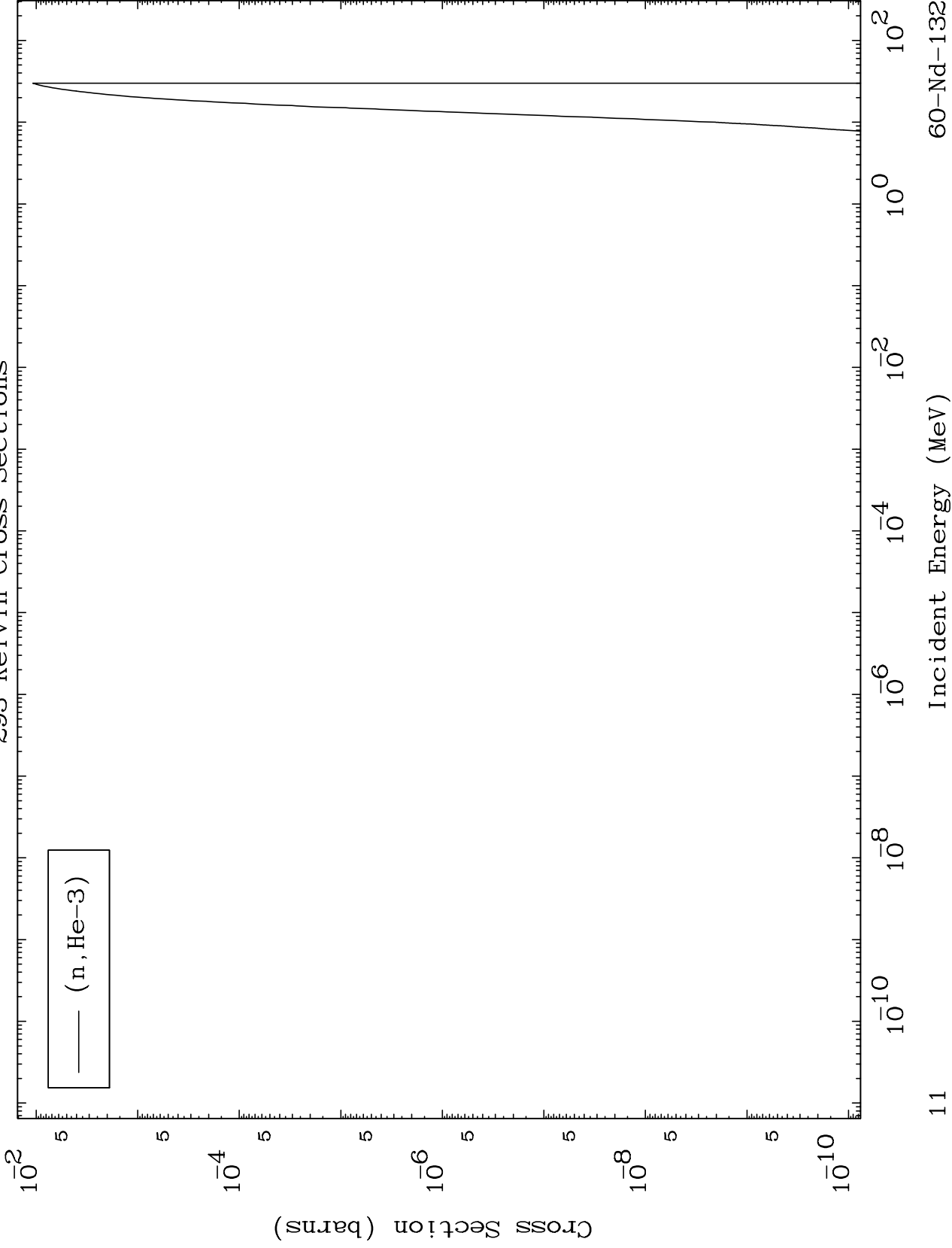
60-Nd-132

10

MAT 5995

(n,He3) Levels
293 Kelvin Cross Sections

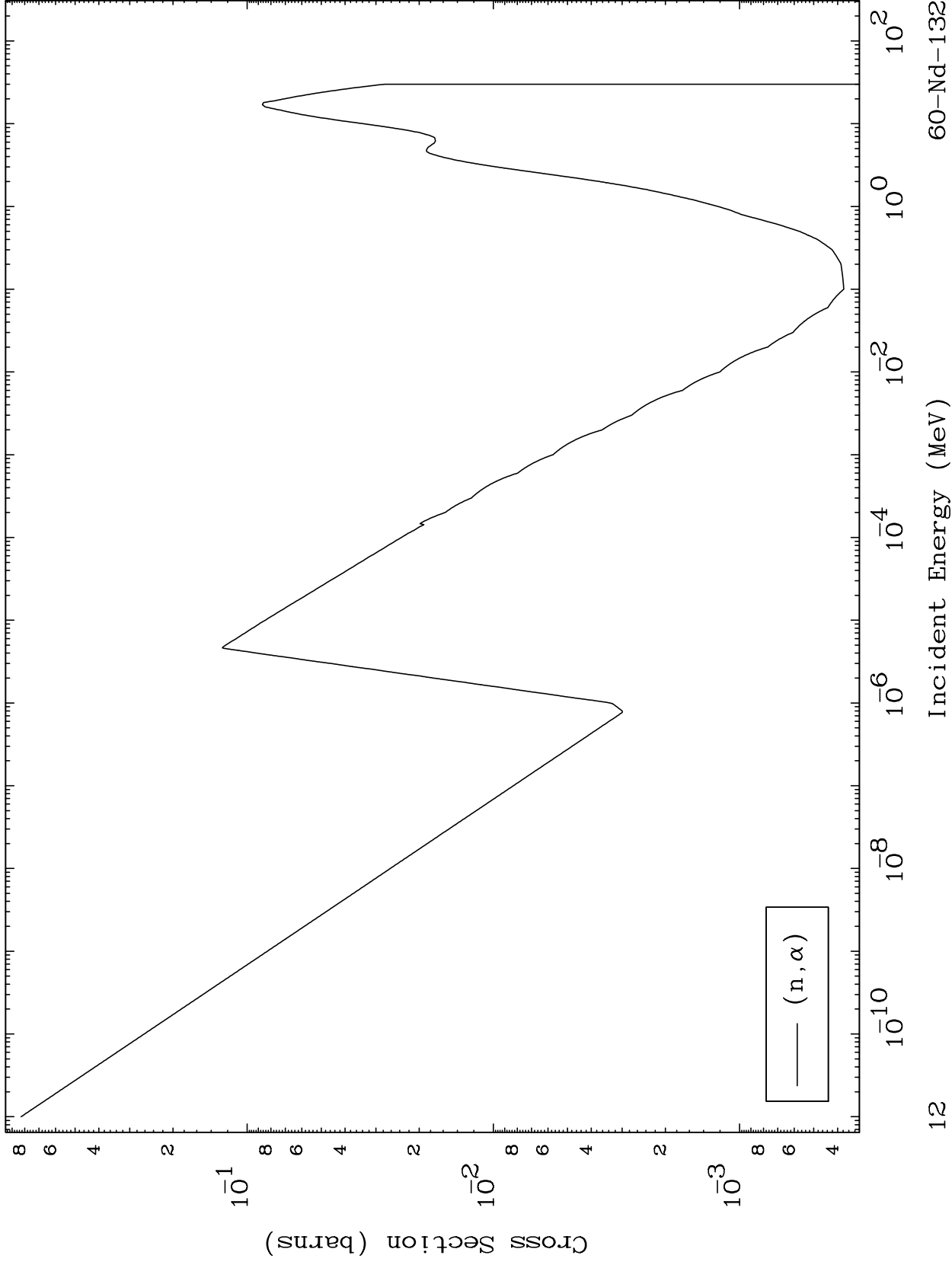
60-Nd-132



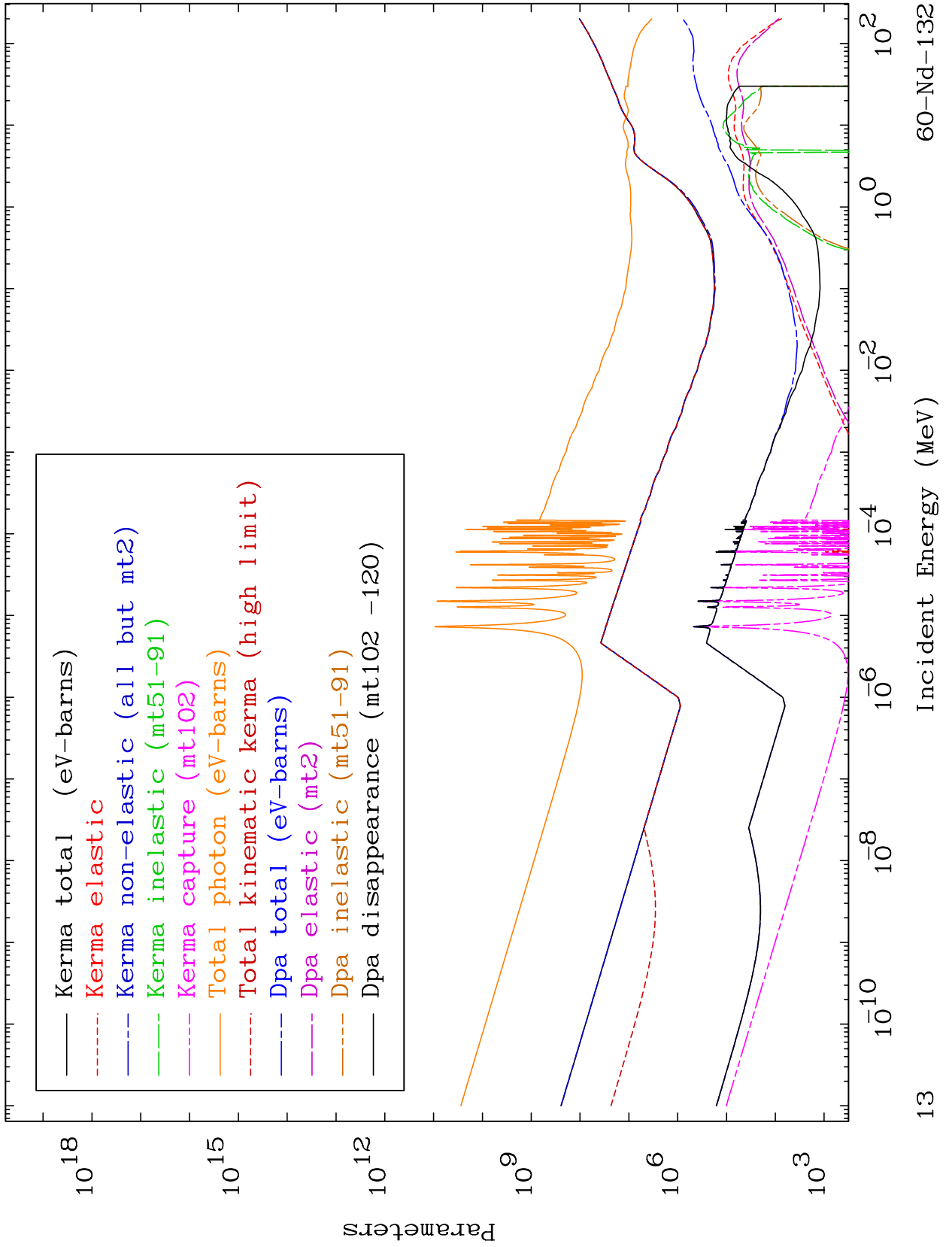
MAT 5995

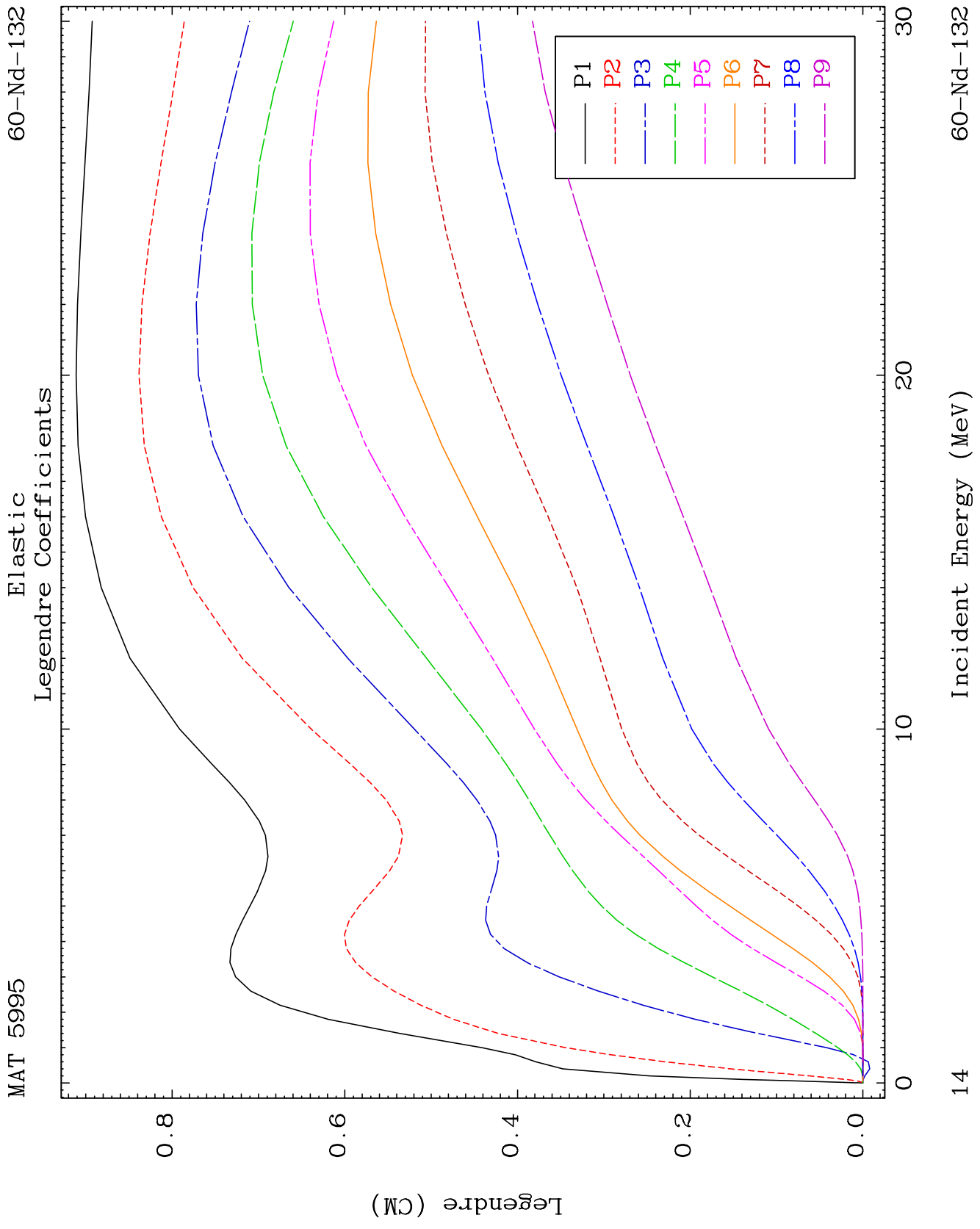
(n, α) Levels
293 Kelvin Cross Sections

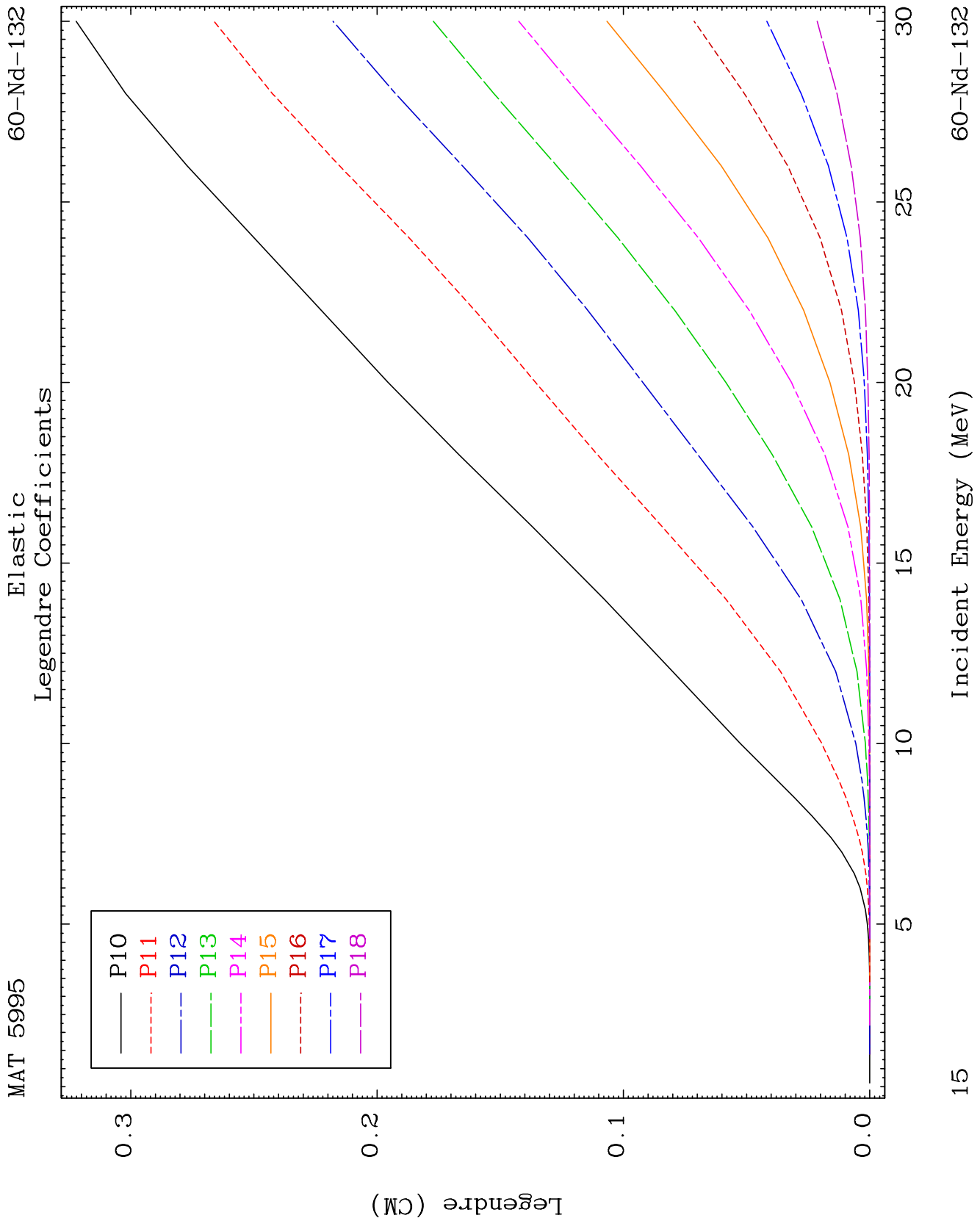
60-Nd-132



12



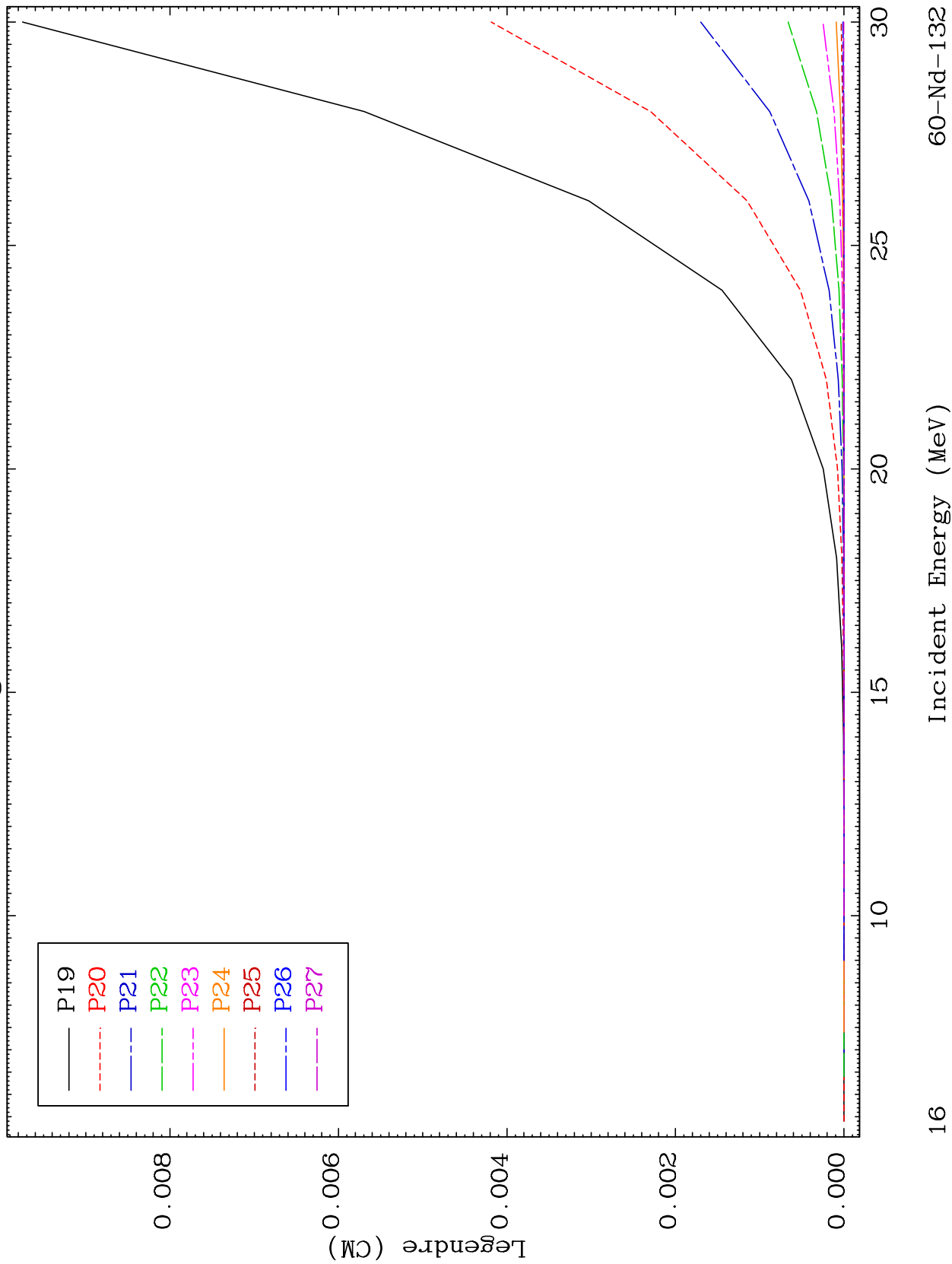




MAT 5995

Elastic Legendre Coefficients

60-Nd-132



16

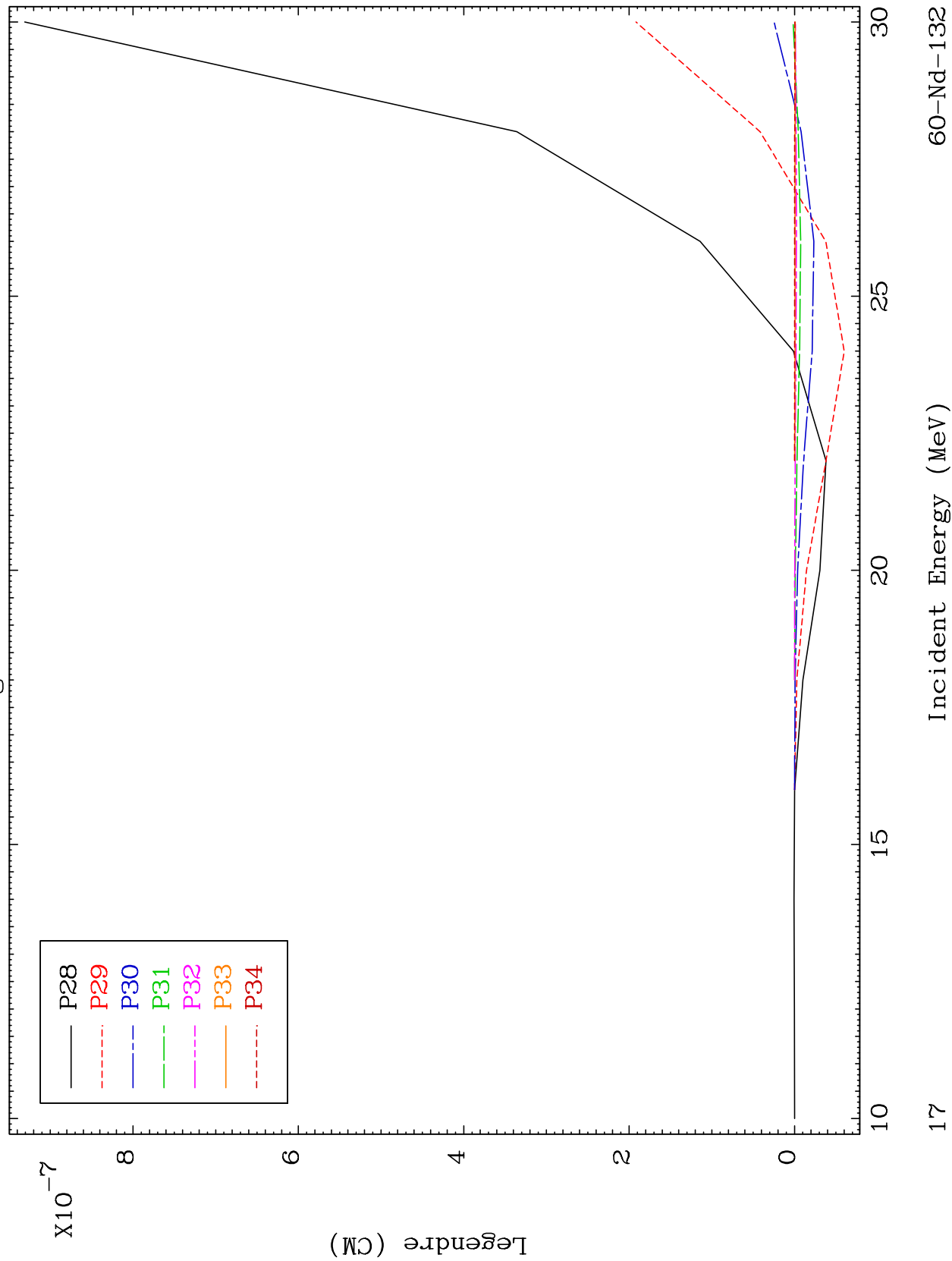
Incident Energy (MeV)

60-Nd-132

MAT 5995

Elastic Legendre Coefficients

60-Nd-132



10^{-7}

Legendre (CM)

8

6

4

2

0

10

15

20

25

30

17

60-Nd-132

Incident Energy (MeV)

60-Nd-132

17

60-Nd-132

Incident Energy (MeV)

60-Nd-132

17

60-Nd-132

Incident Energy (MeV)

60-Nd-132

17

60-Nd-132

Incident Energy (MeV)

60-Nd-132

17

60-Nd-132

Incident Energy (MeV)

60-Nd-132

17

60-Nd-132

Incident Energy (MeV)

60-Nd-132

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60-Nd-132

Incident Energy (MeV)

60-Nd-132

17

60-Nd-132

Incident Energy (MeV)

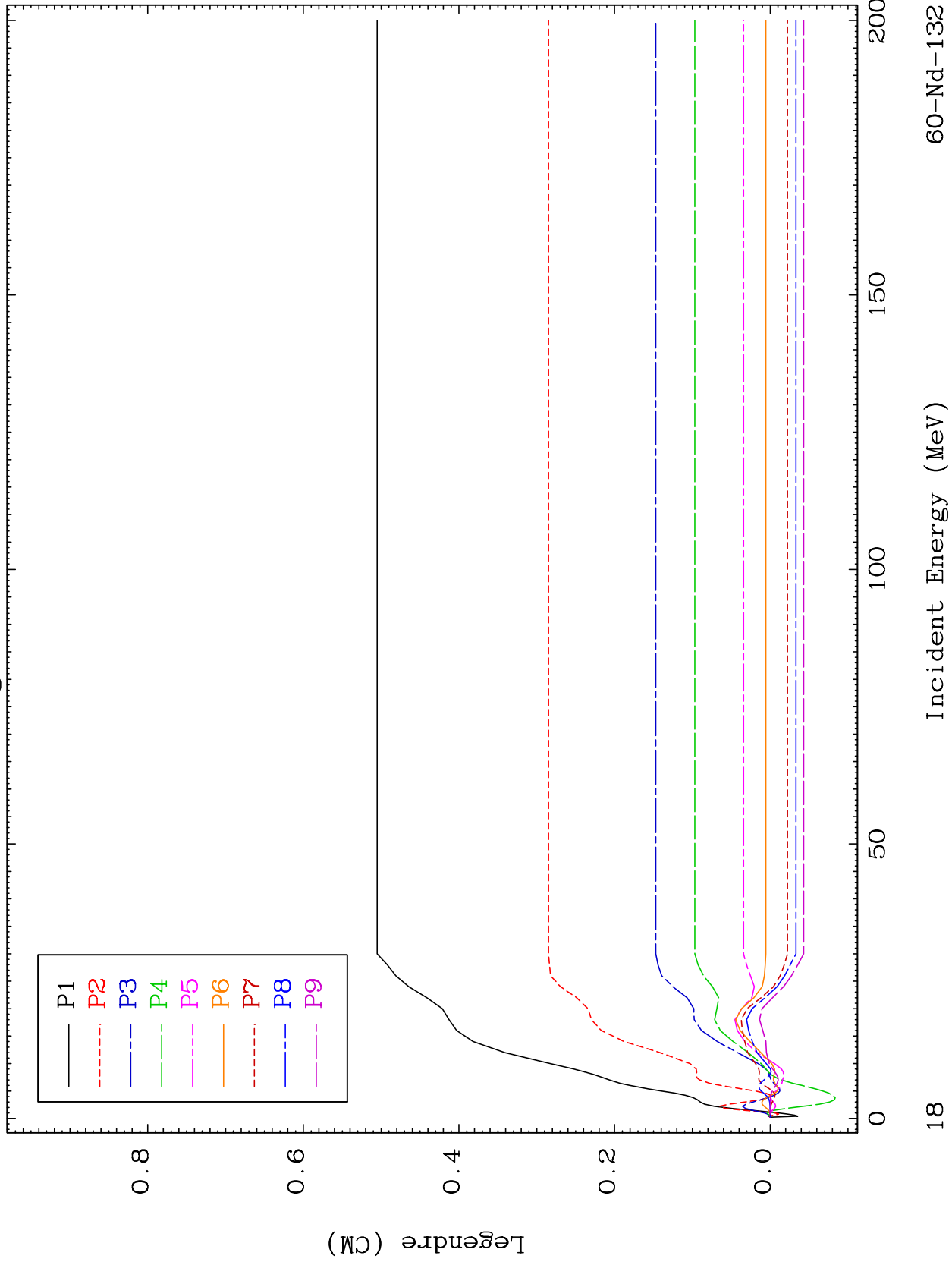
60-Nd-132

17

MAT 5995

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

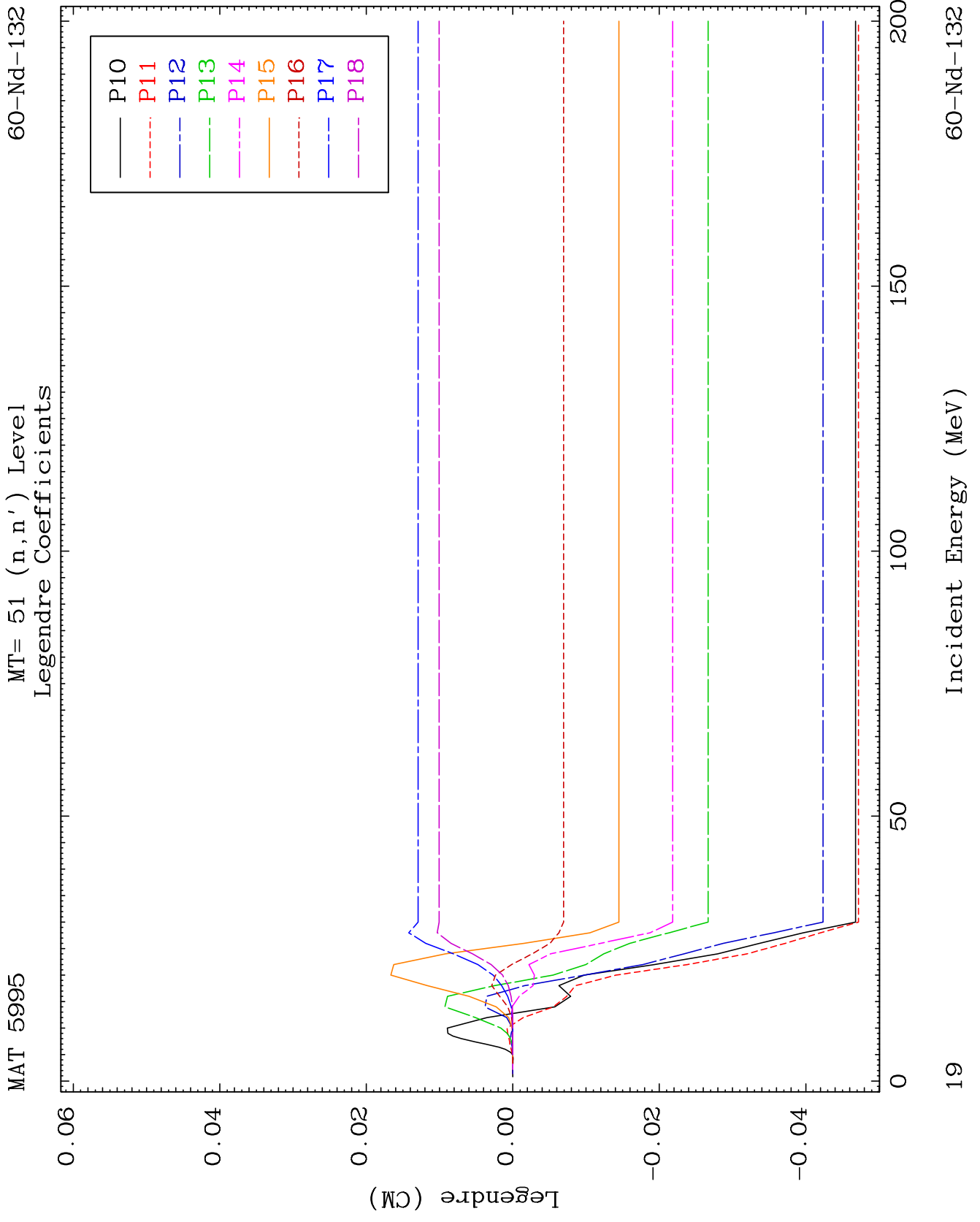
60-Nd-132



60-Nd-132

Incident Energy (MeV)

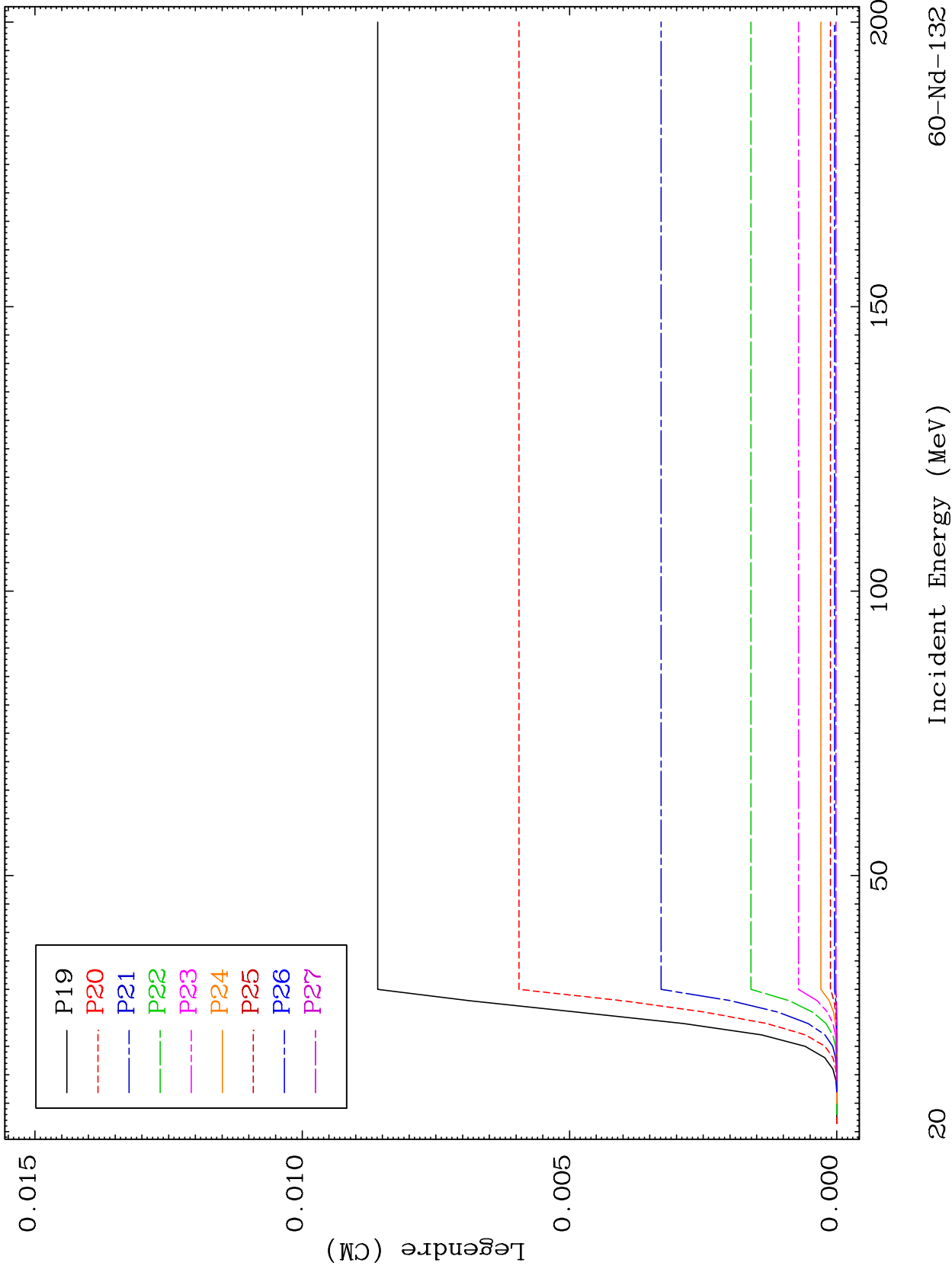
18



MAT 5995

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

60-Nd-132



20

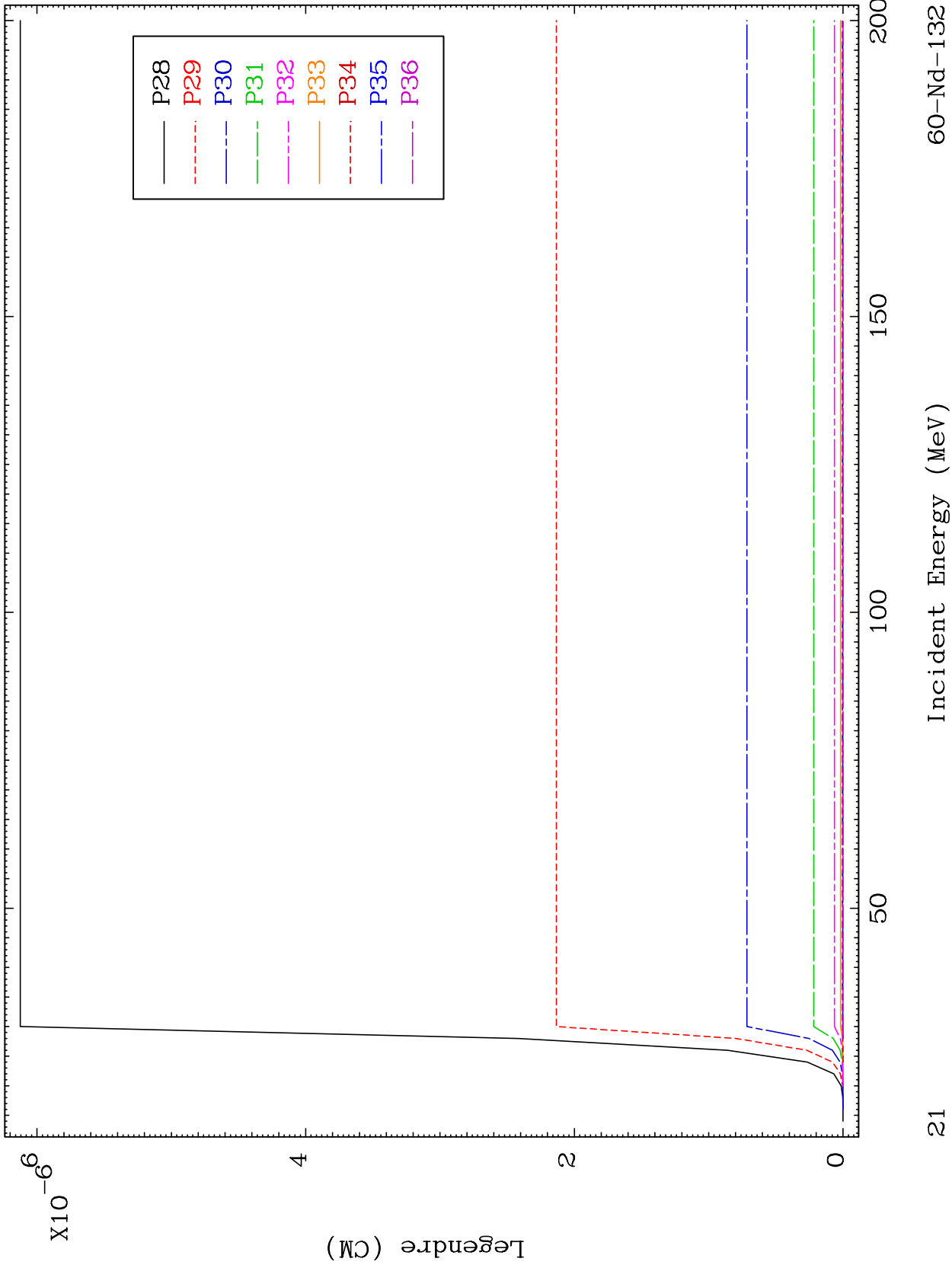
Incident Energy (MeV)

60-Nd-132

MAT 5995

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

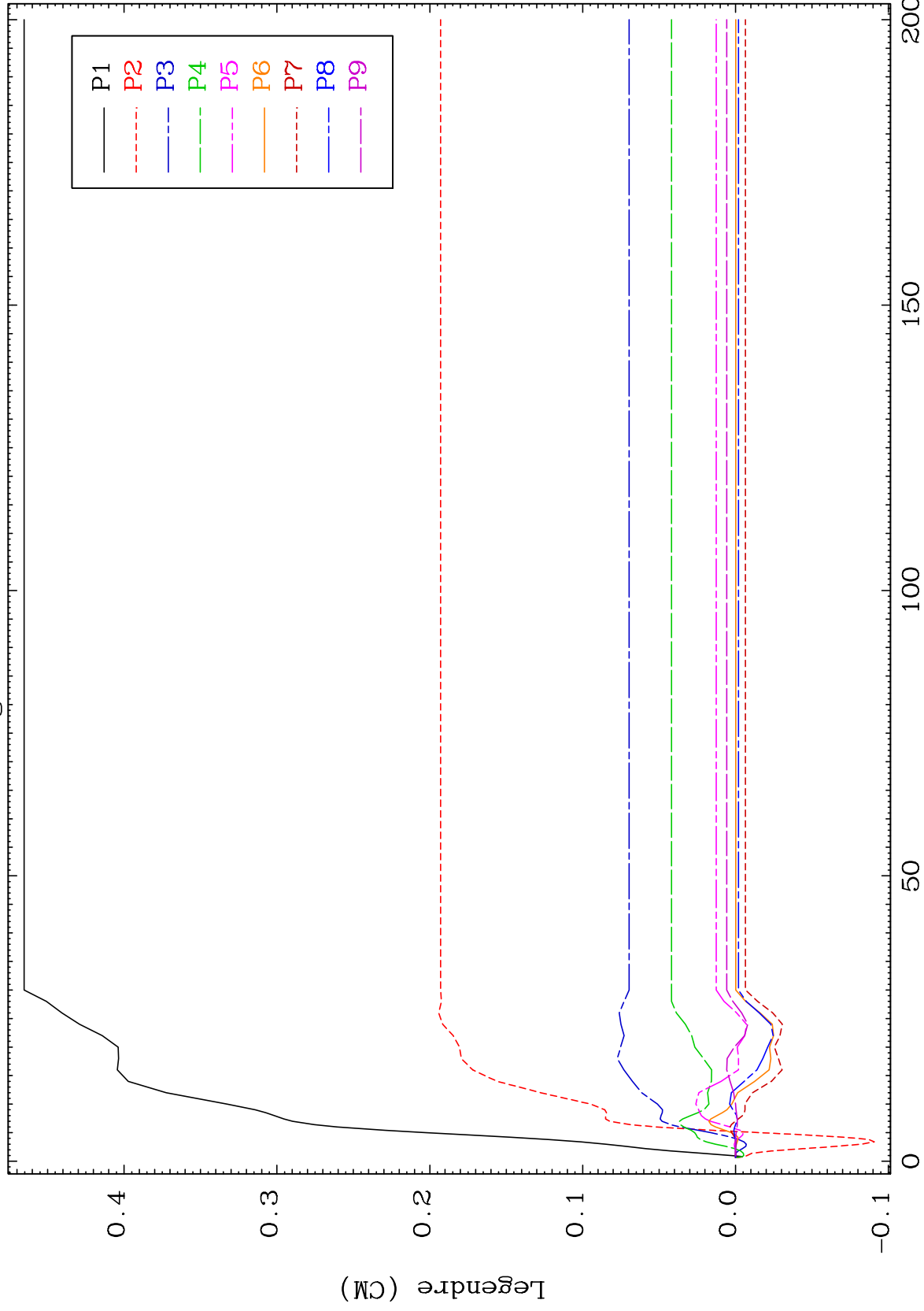
60-Nd-132



MAT 5995

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

60-Nd-132



22

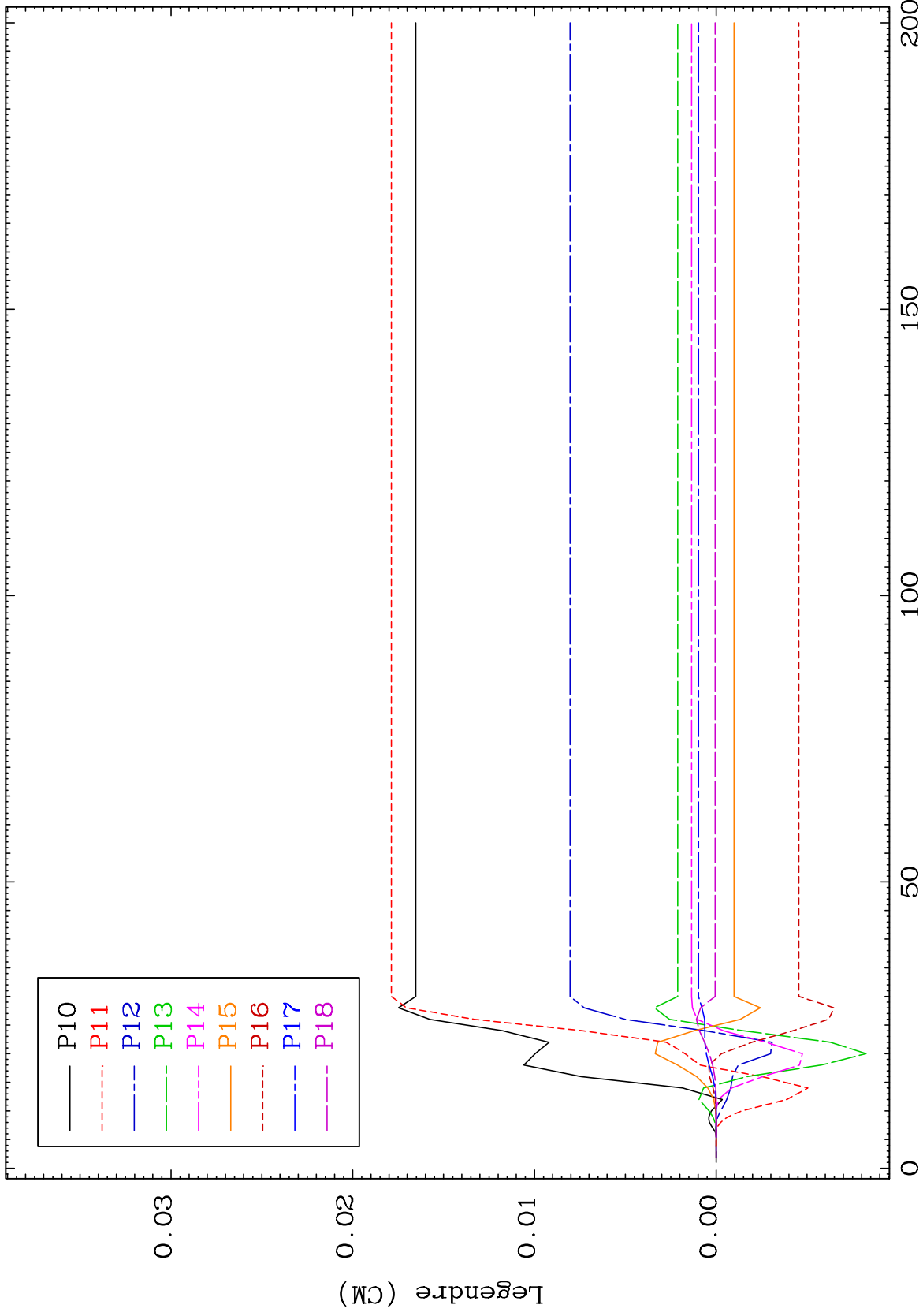
Incident Energy (MeV)

60-Nd-132

MAT 5995

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

60-Nd-132



23

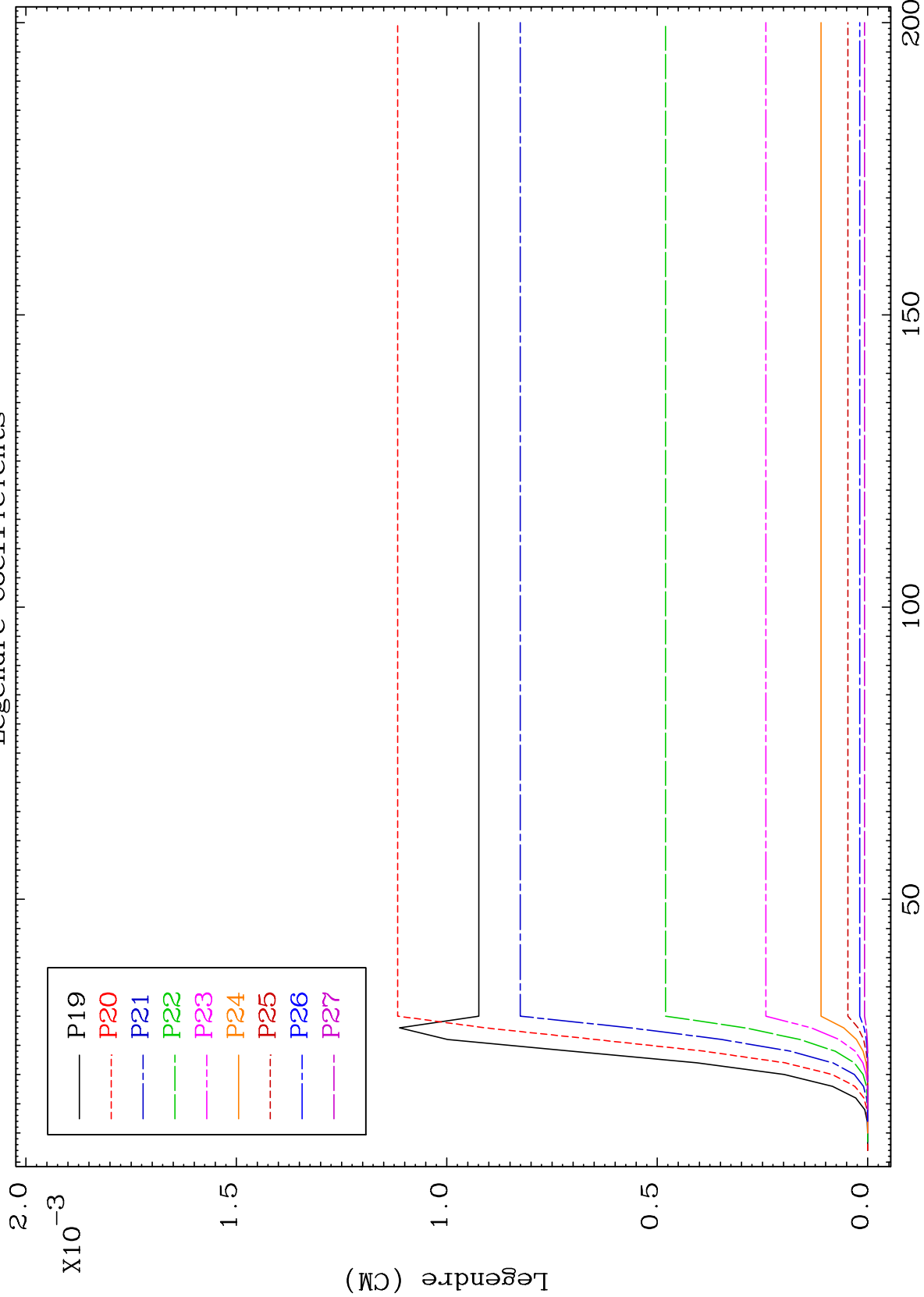
Incident Energy (MeV)

60-Nd-132

MAT 5995

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

60-Nd-132



24

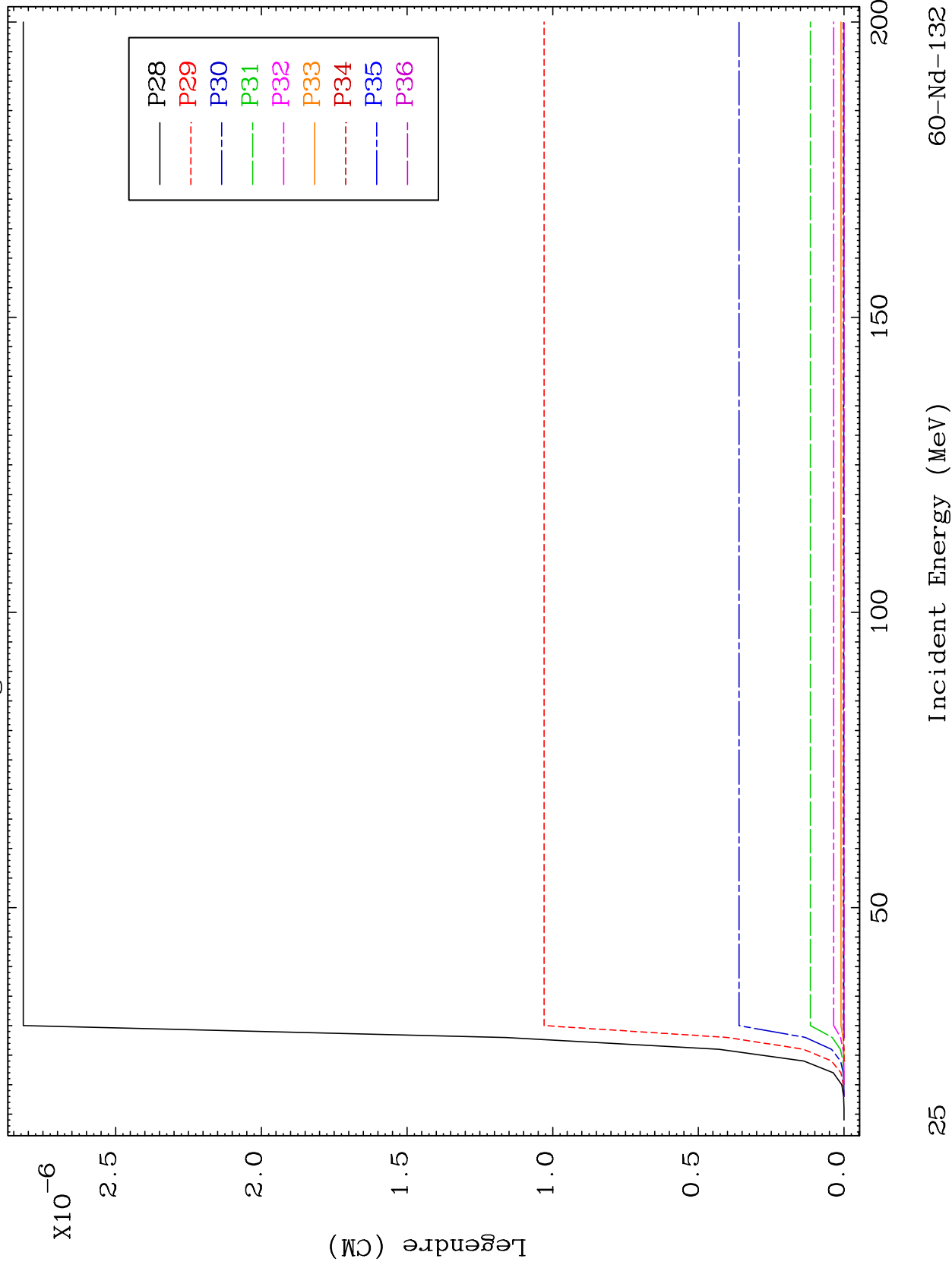
Incident Energy (MeV)

60-Nd-132

MAT 5995

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

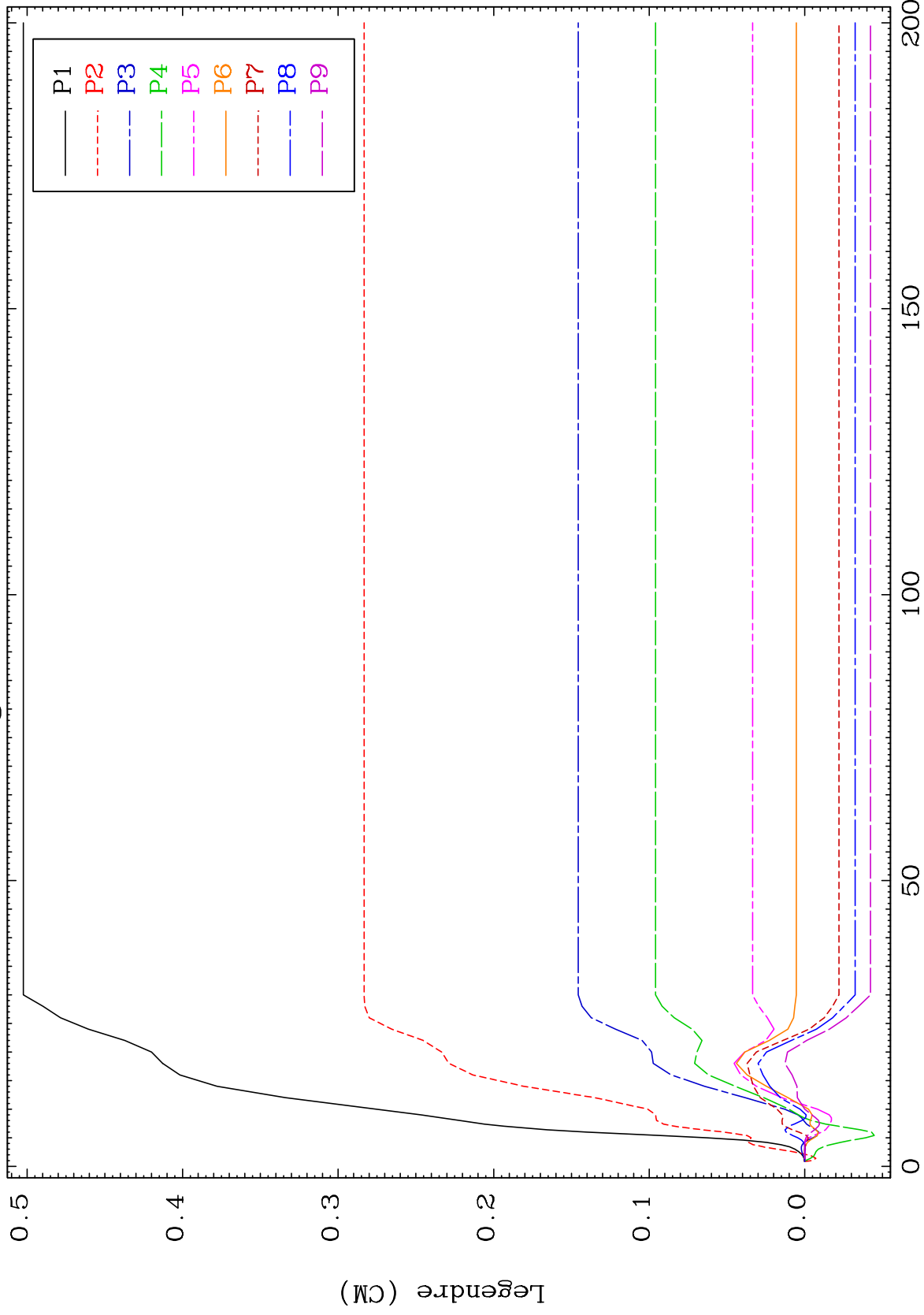
60-Nd-132



MAT 5995

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

60-Nd-132



26

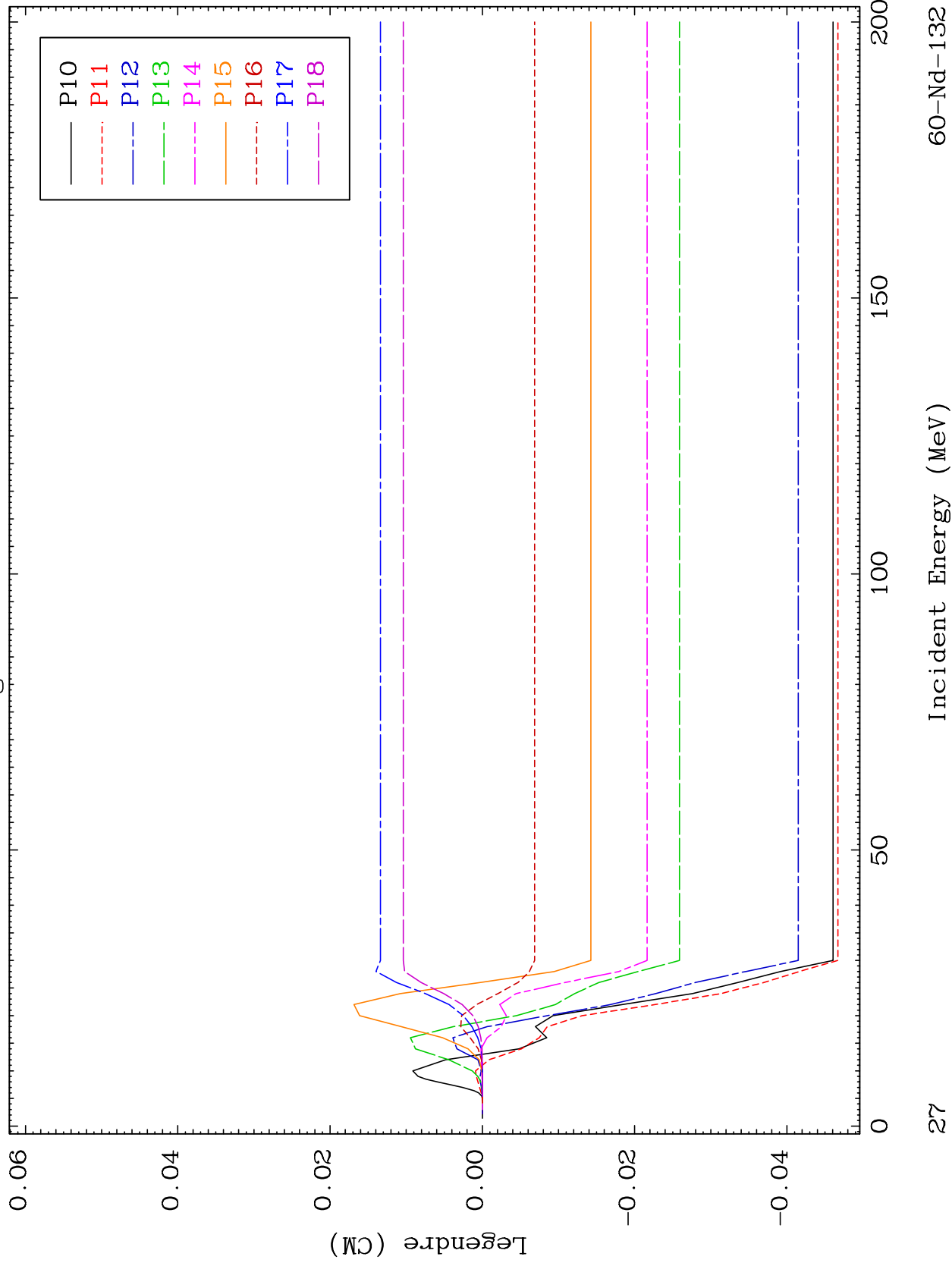
Incident Energy (MeV)

60-Nd-132

MAT 5995

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

60-Nd-132



27

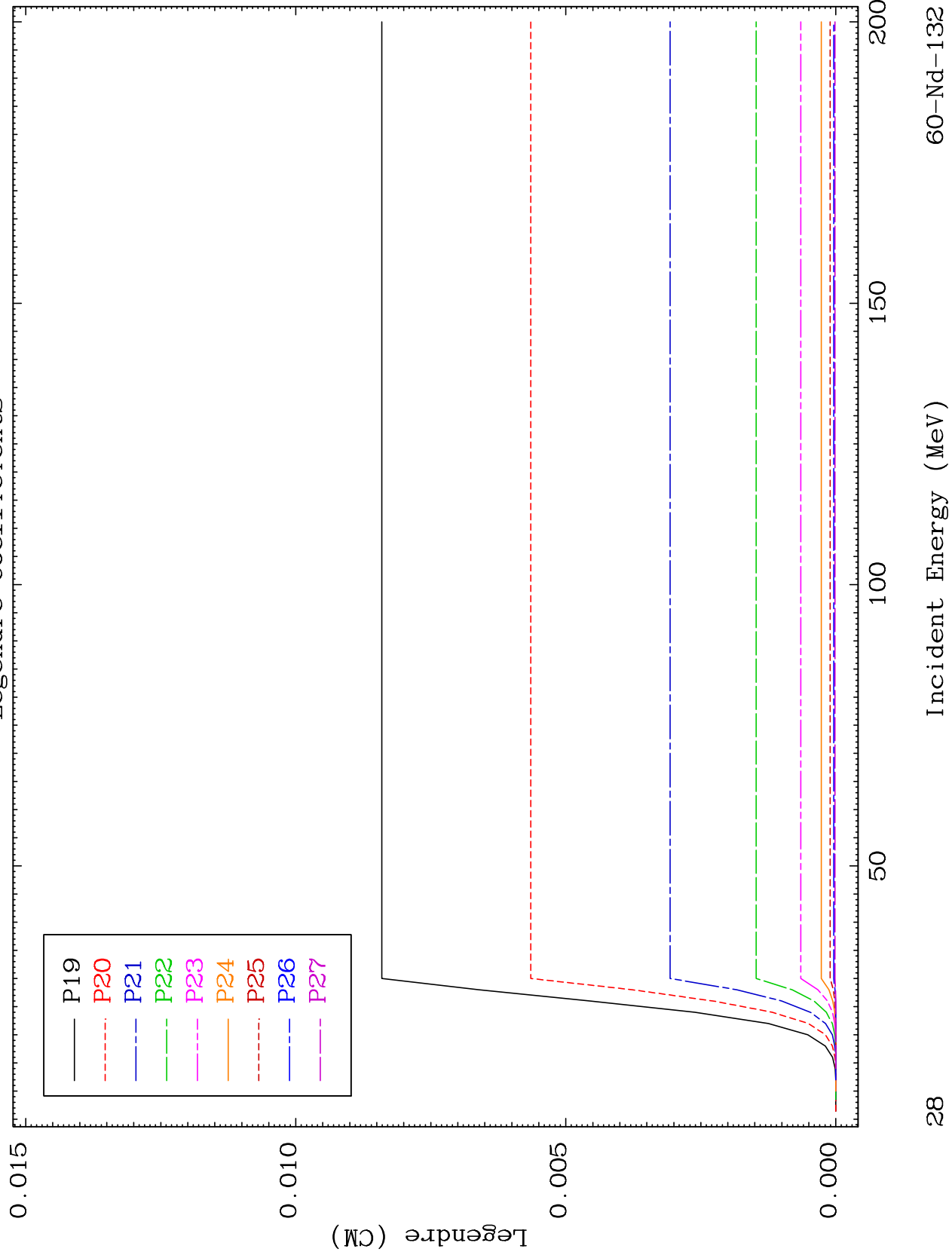
Incident Energy (MeV)

60-Nd-132

MAT 5995

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

60-Nd-132



28

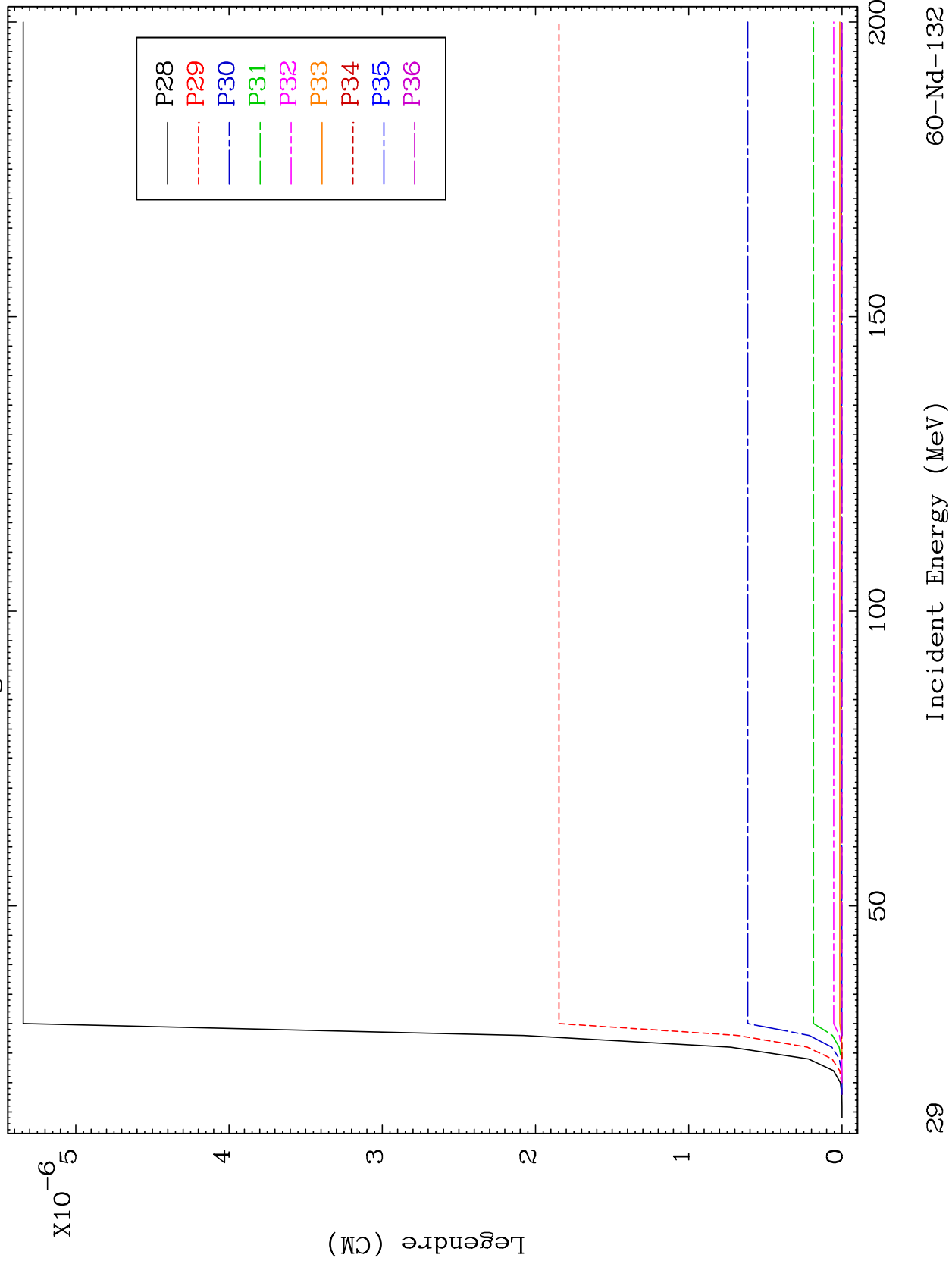
Incident Energy (MeV)

60-Nd-132

MAT 5995

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

60-Nd-132

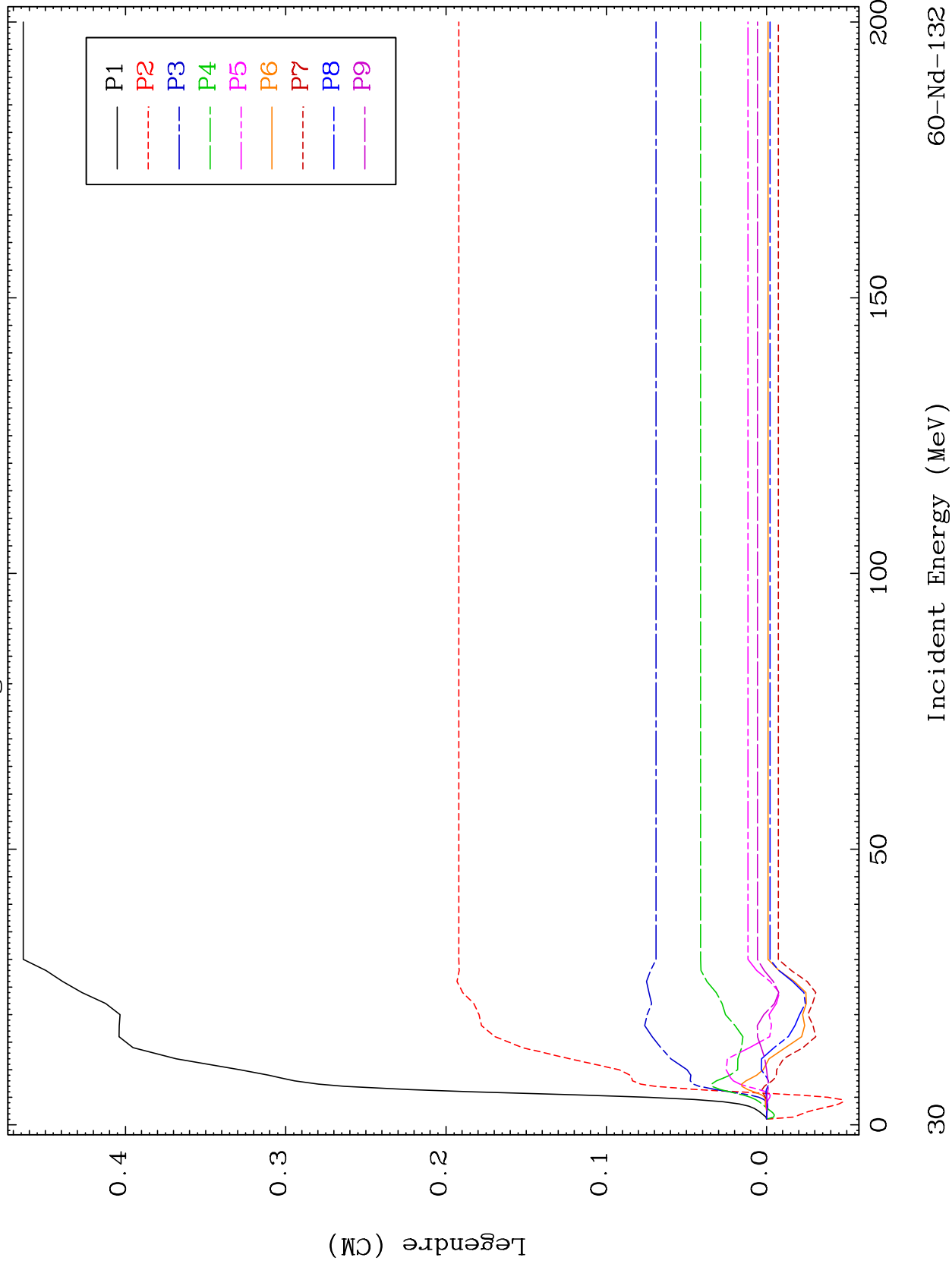


29

MAT 5995

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

60-Nd-132



60-Nd-132

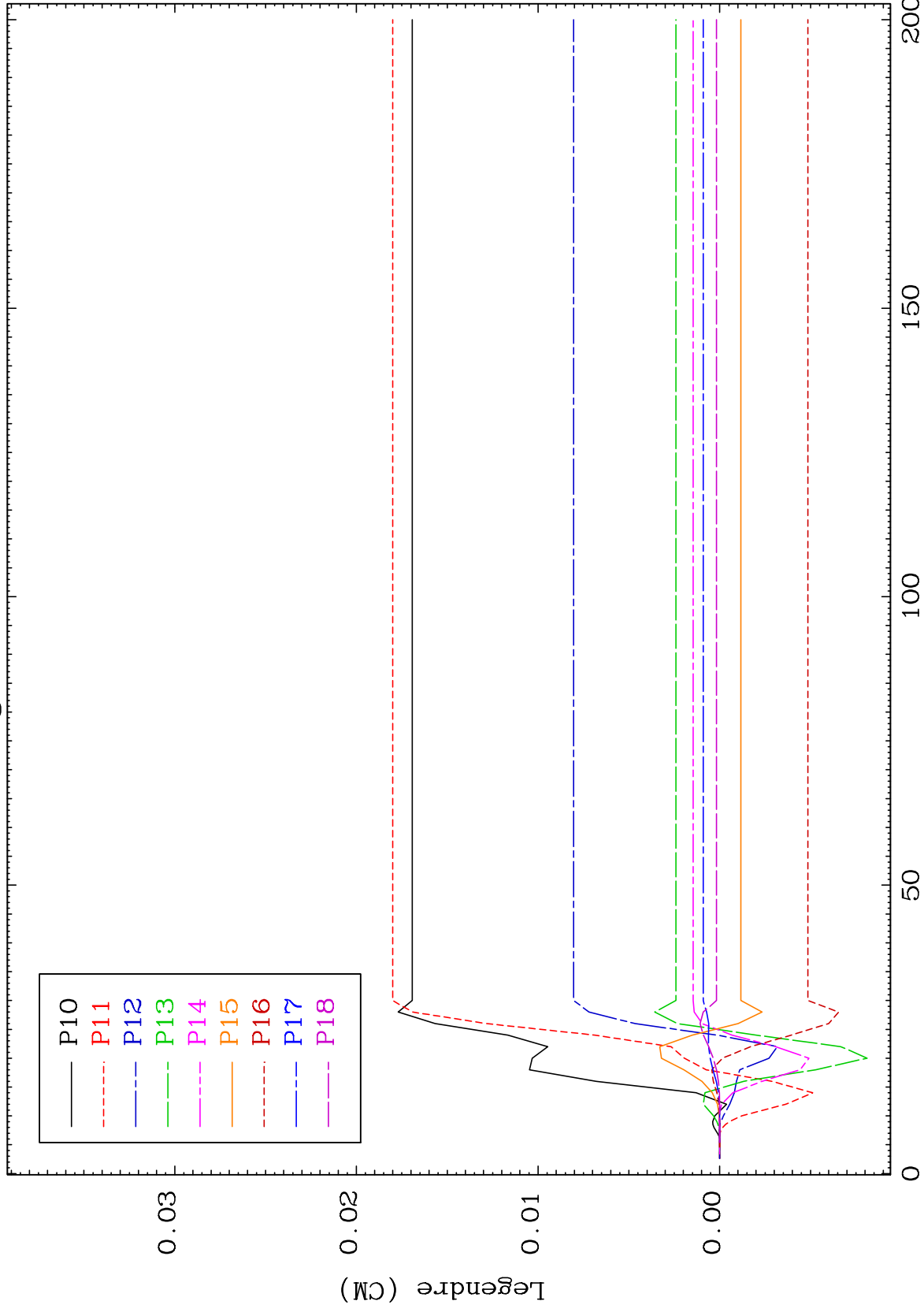
Incident Energy (MeV)

30

MAT 5995

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

60-Nd-132



31

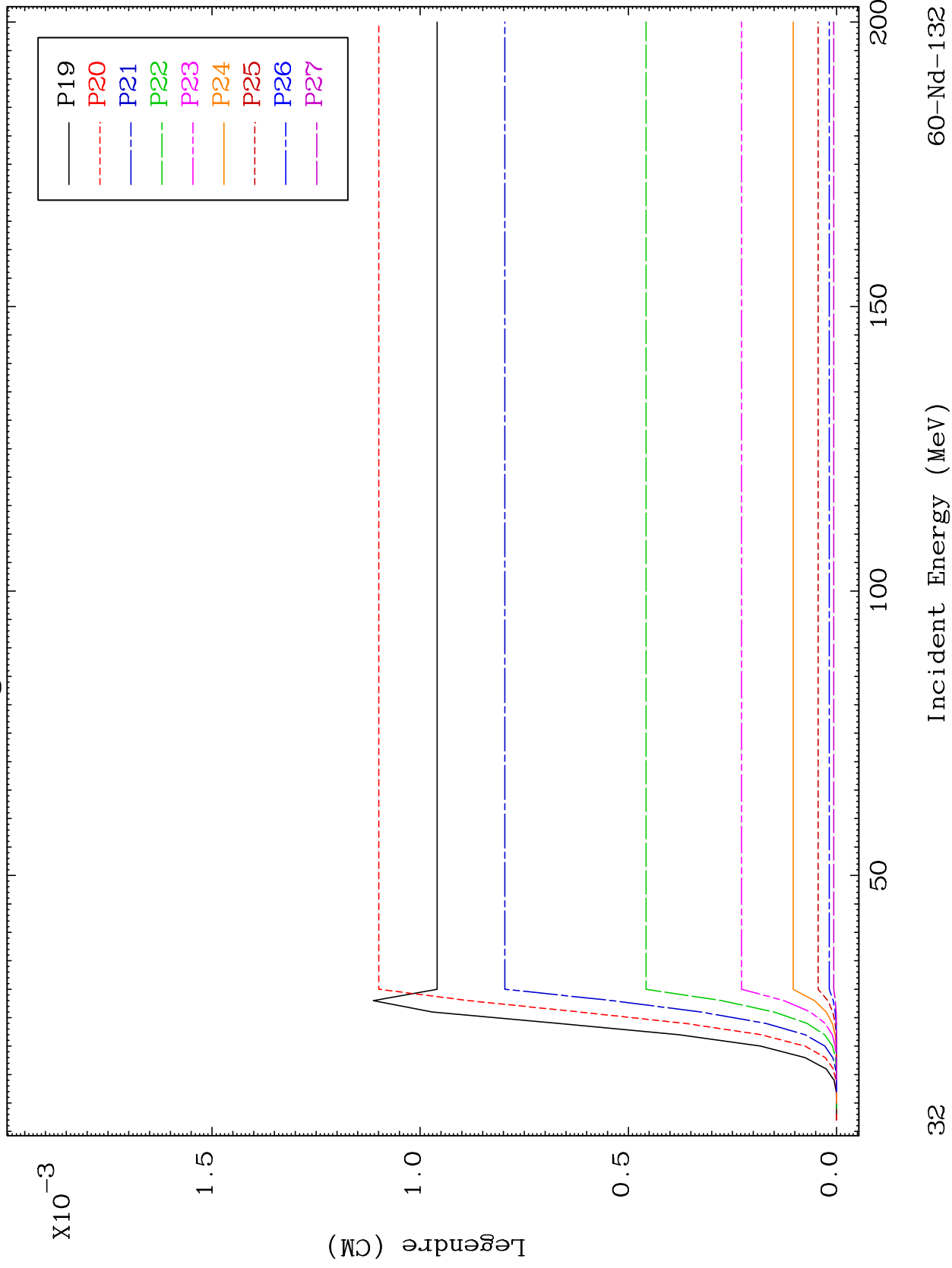
Incident Energy (MeV)

60-Nd-132

MAT 5995

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

60-Nd-132



32

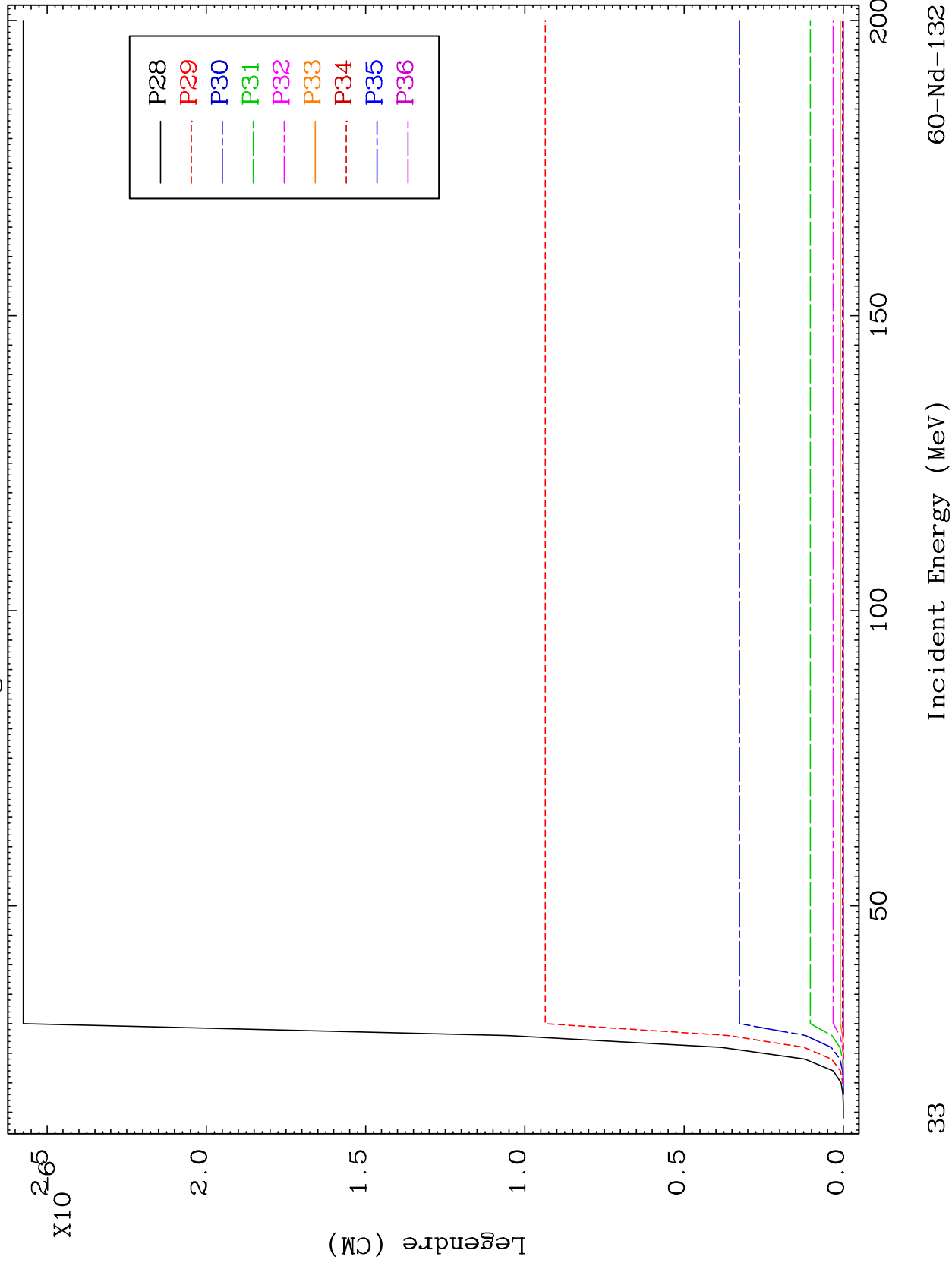
Incident Energy (MeV)

60-Nd-132

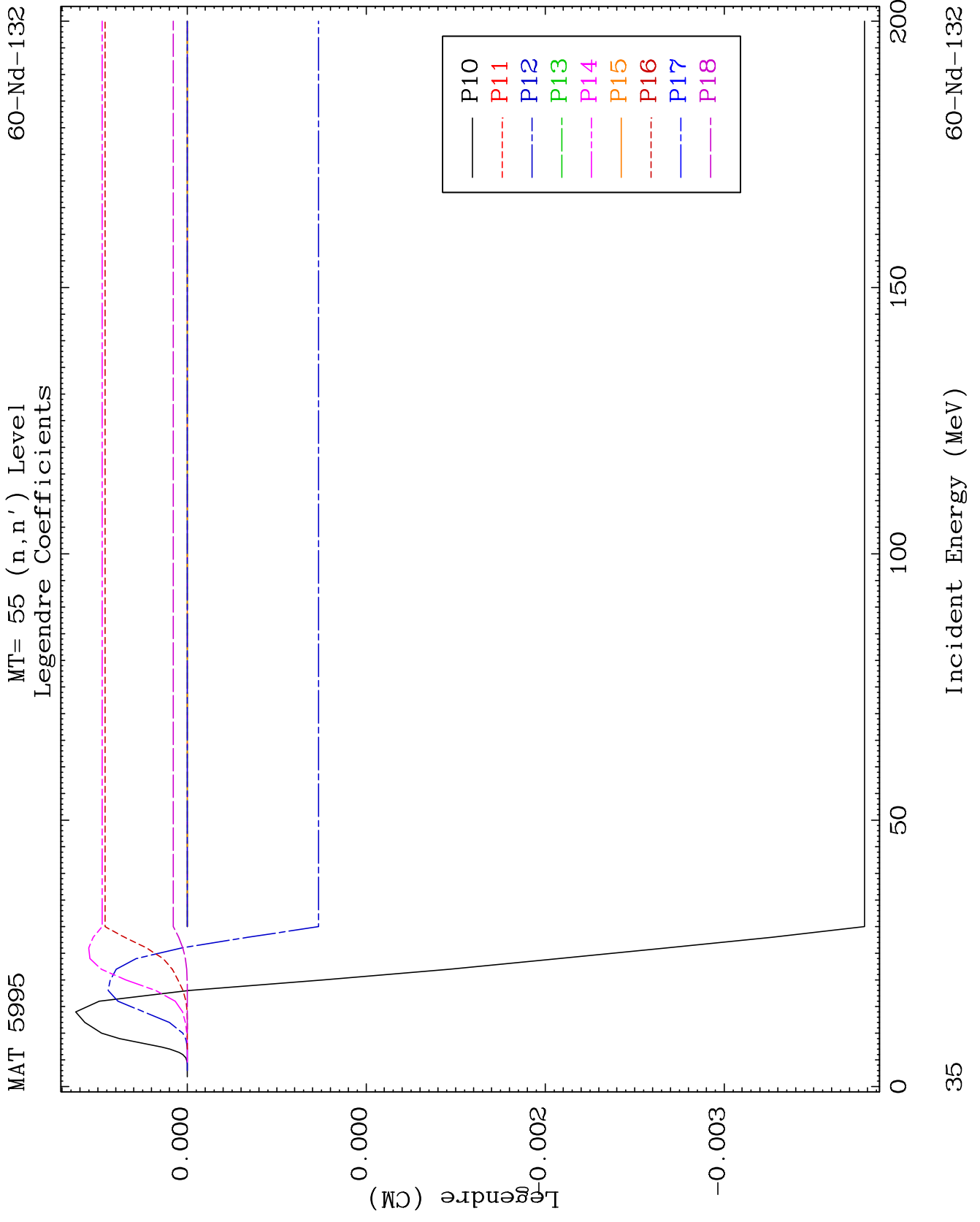
MAT 5995

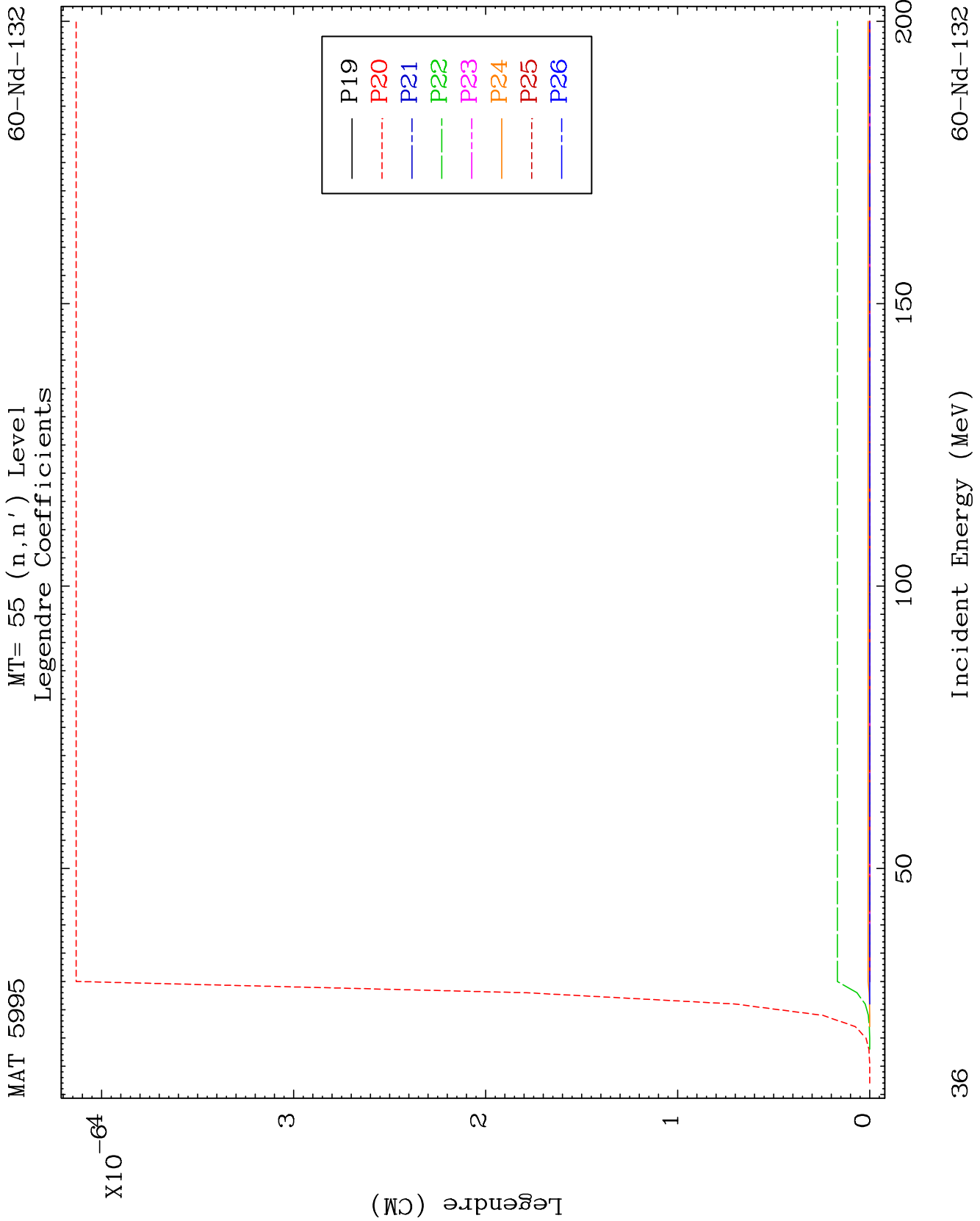
MT= 54 (n,n') Level
Legendre Coefficients

60-Nd-132



33

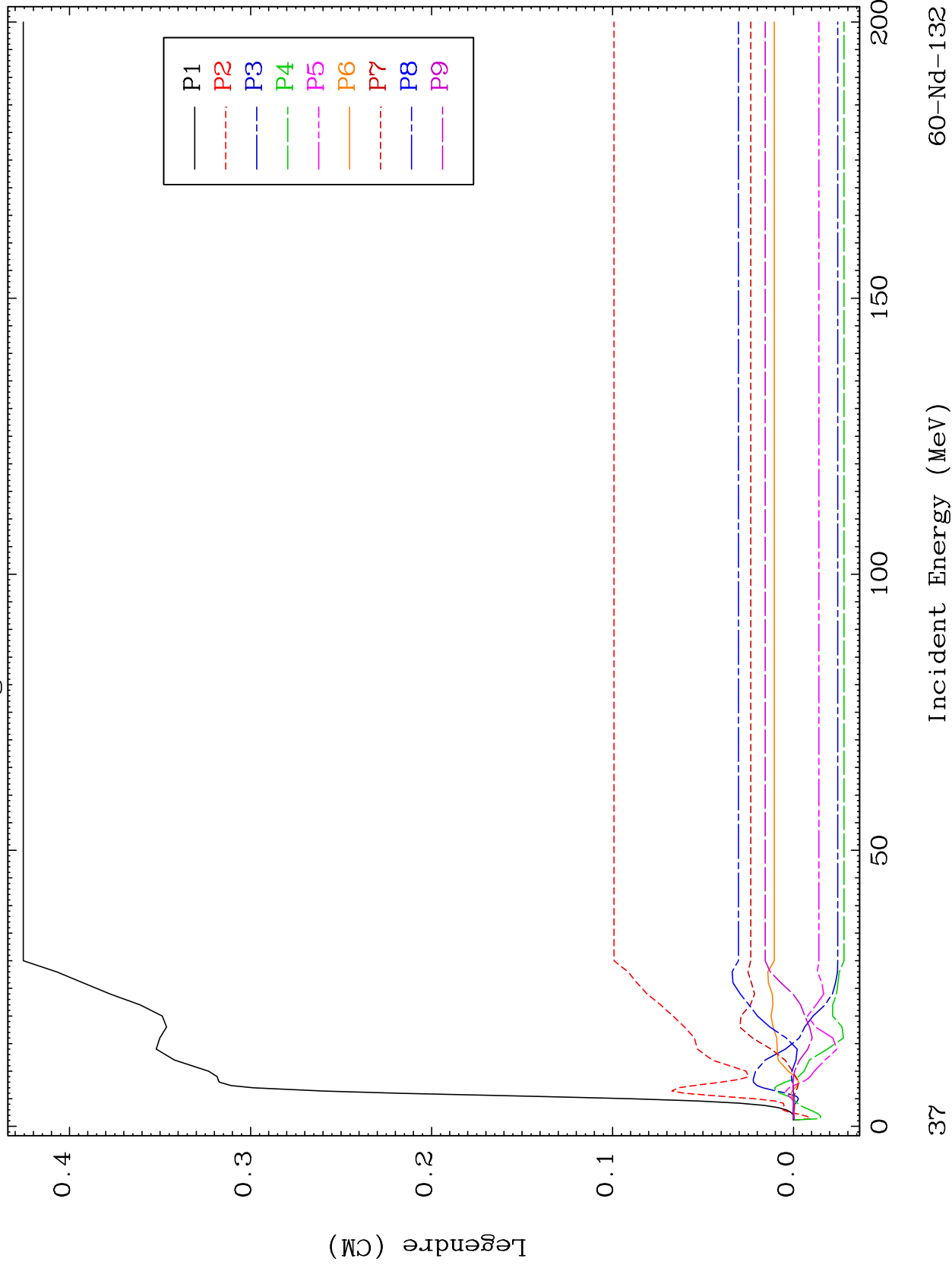




MAT 5995

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

60-Nd-132



37

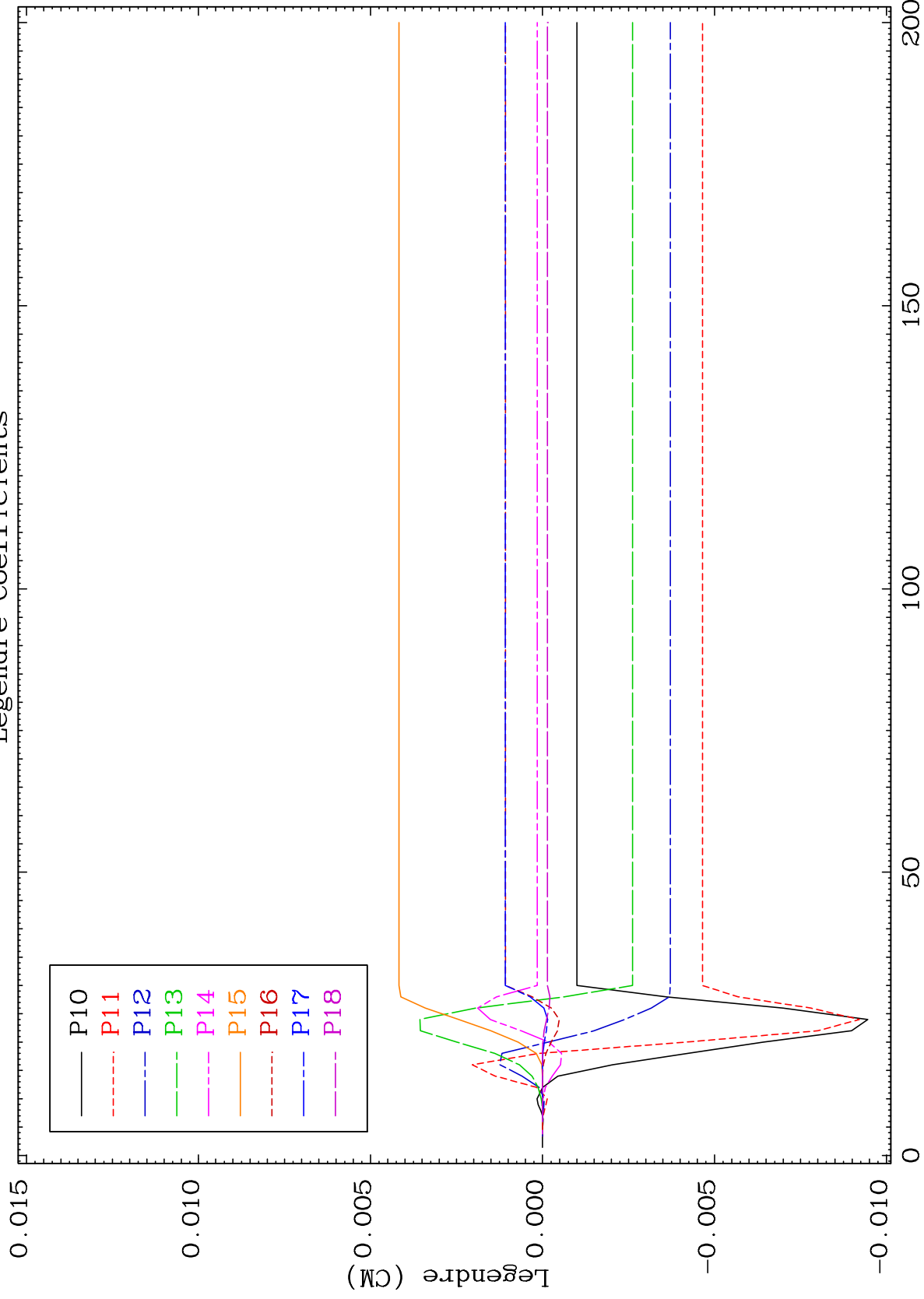
Incident Energy (MeV)

60-Nd-132

MAT 5995

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

60-Nd-132



38

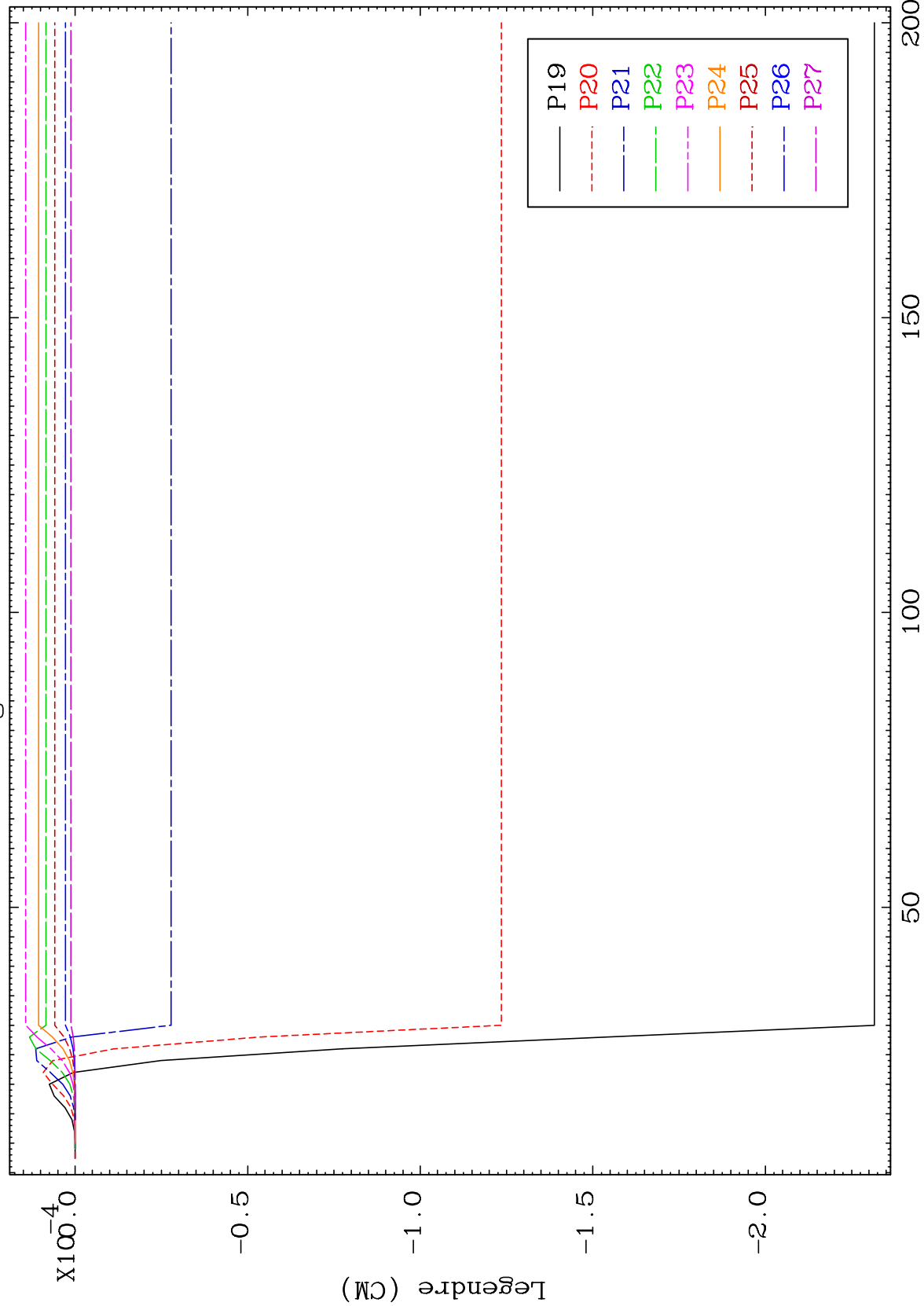
Incident Energy (MeV)

60-Nd-132

MAT 5995

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

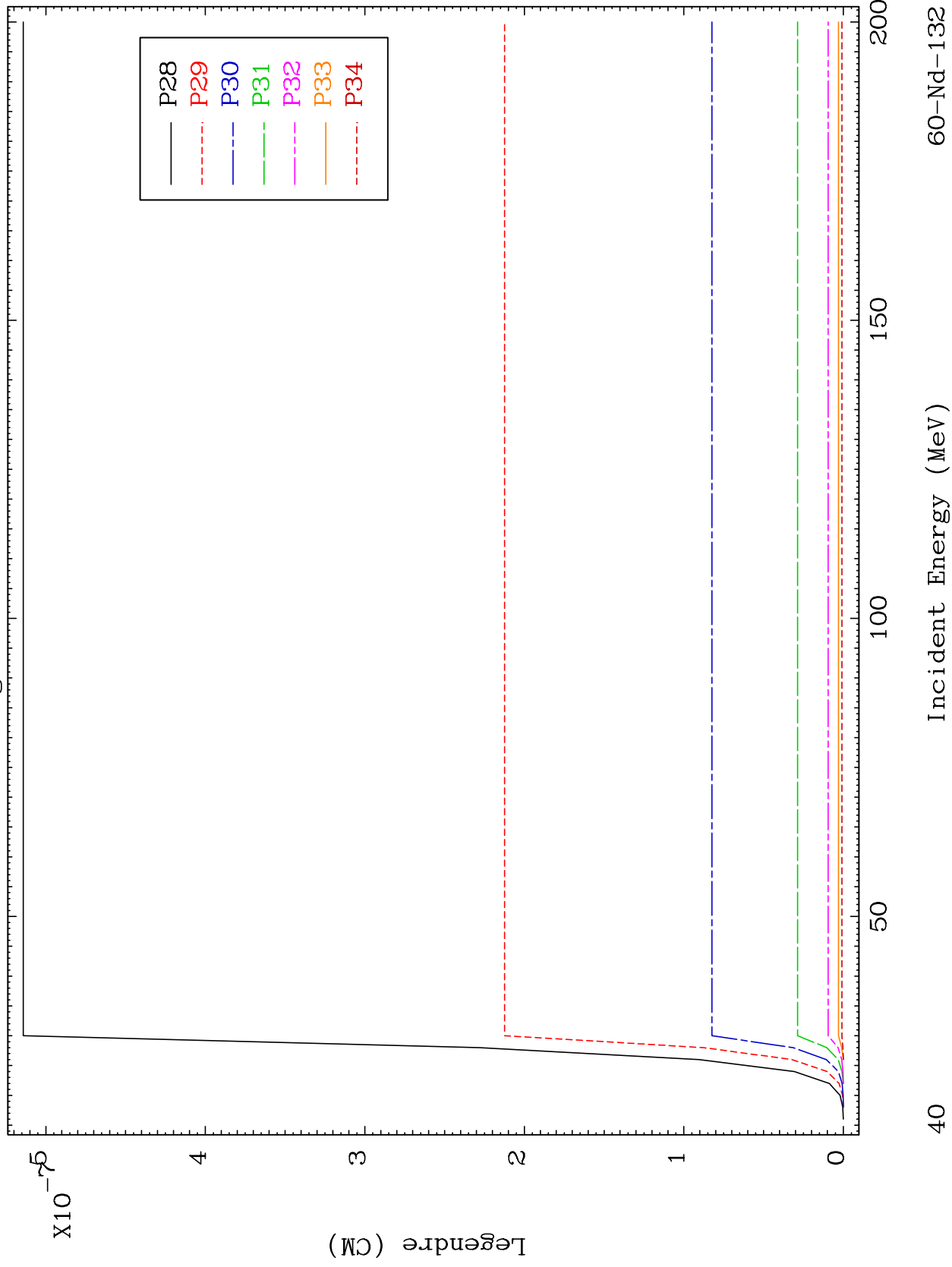
60-Nd-132



MAT 5995

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

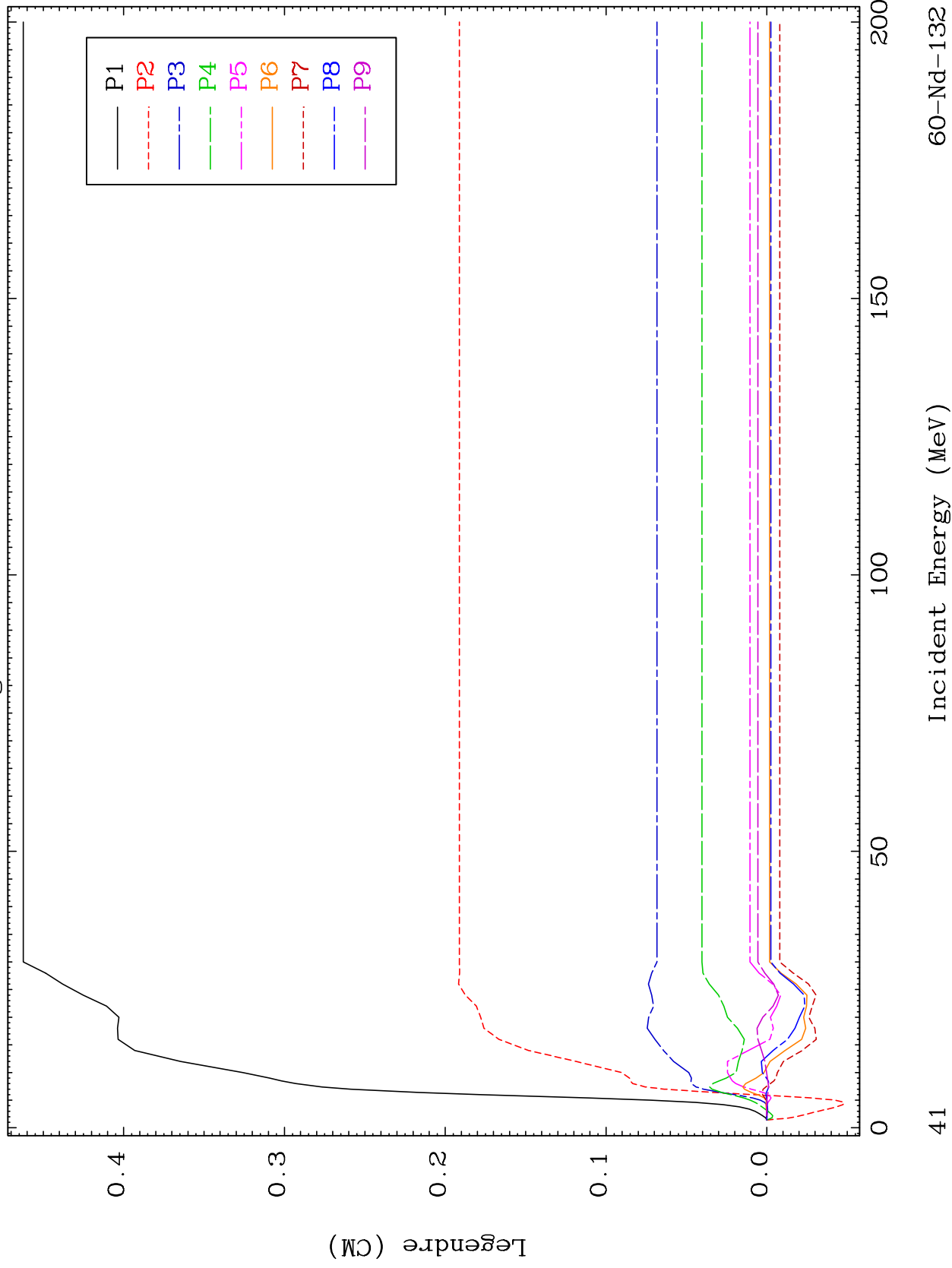
60-Nd-132



MAT 5995

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

60-Nd-132



41

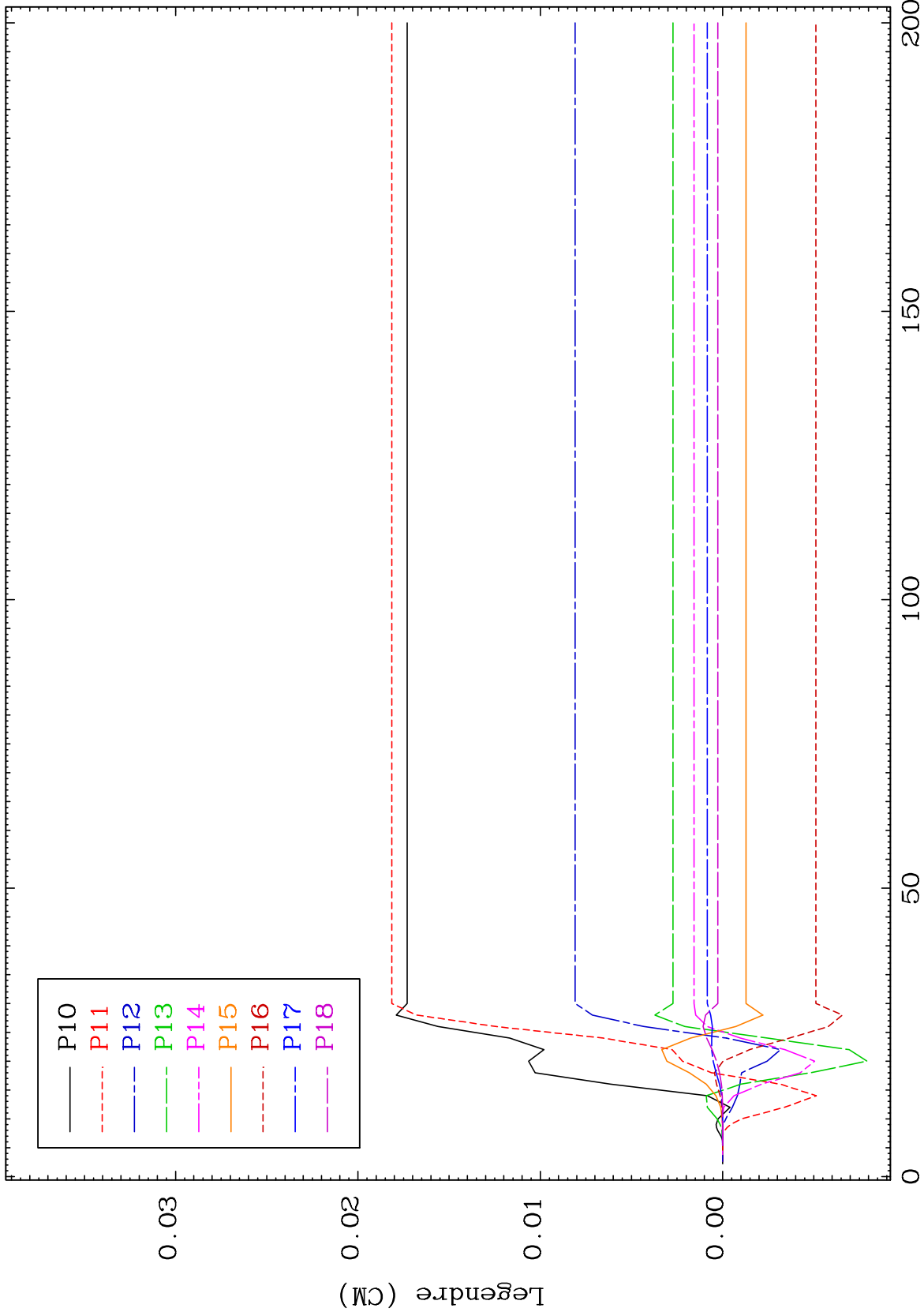
Incident Energy (MeV)

60-Nd-132

MAT 5995

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

60-Nd-132



42

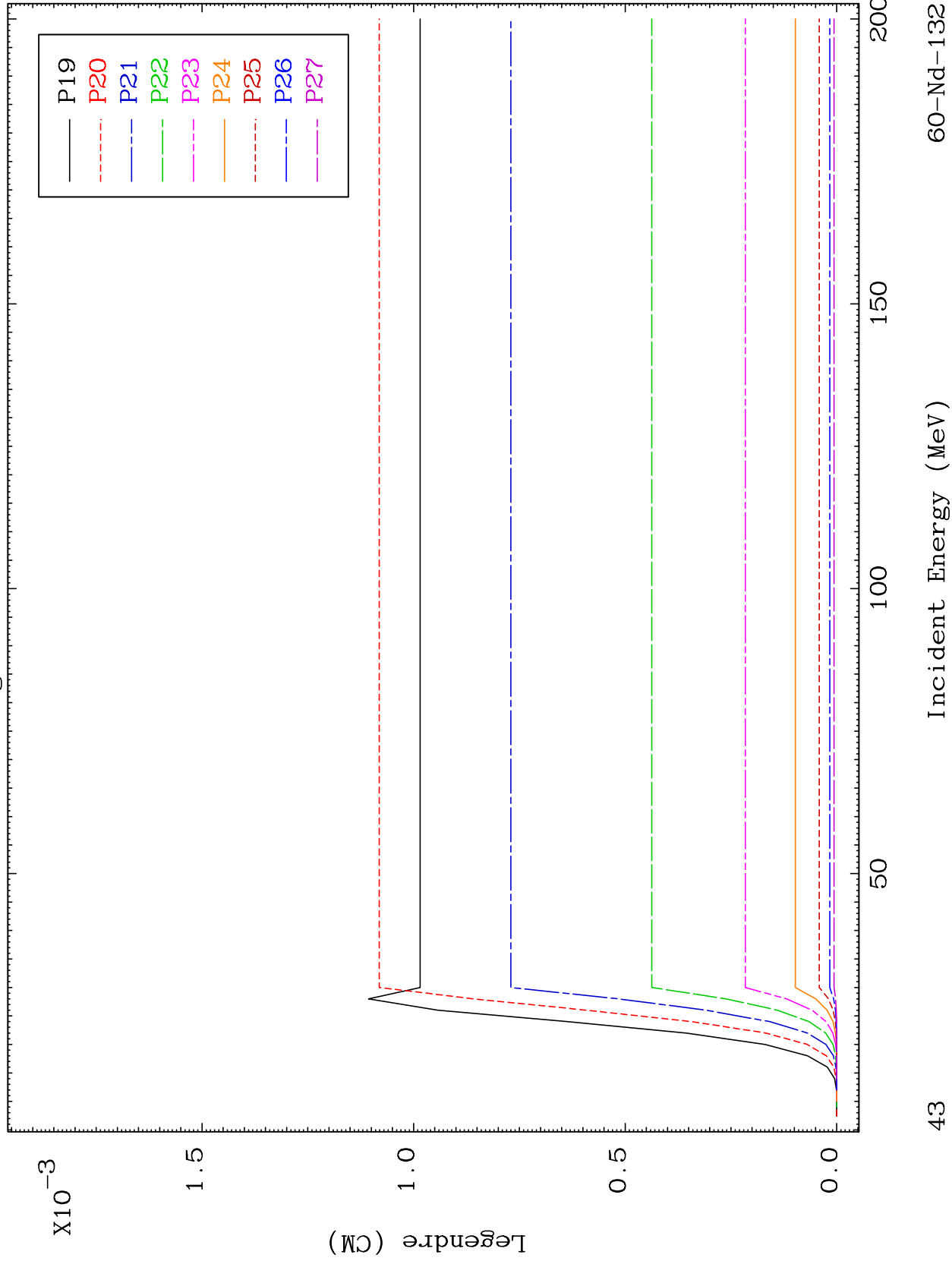
Incident Energy (MeV)

60-Nd-132

MAT 5995

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

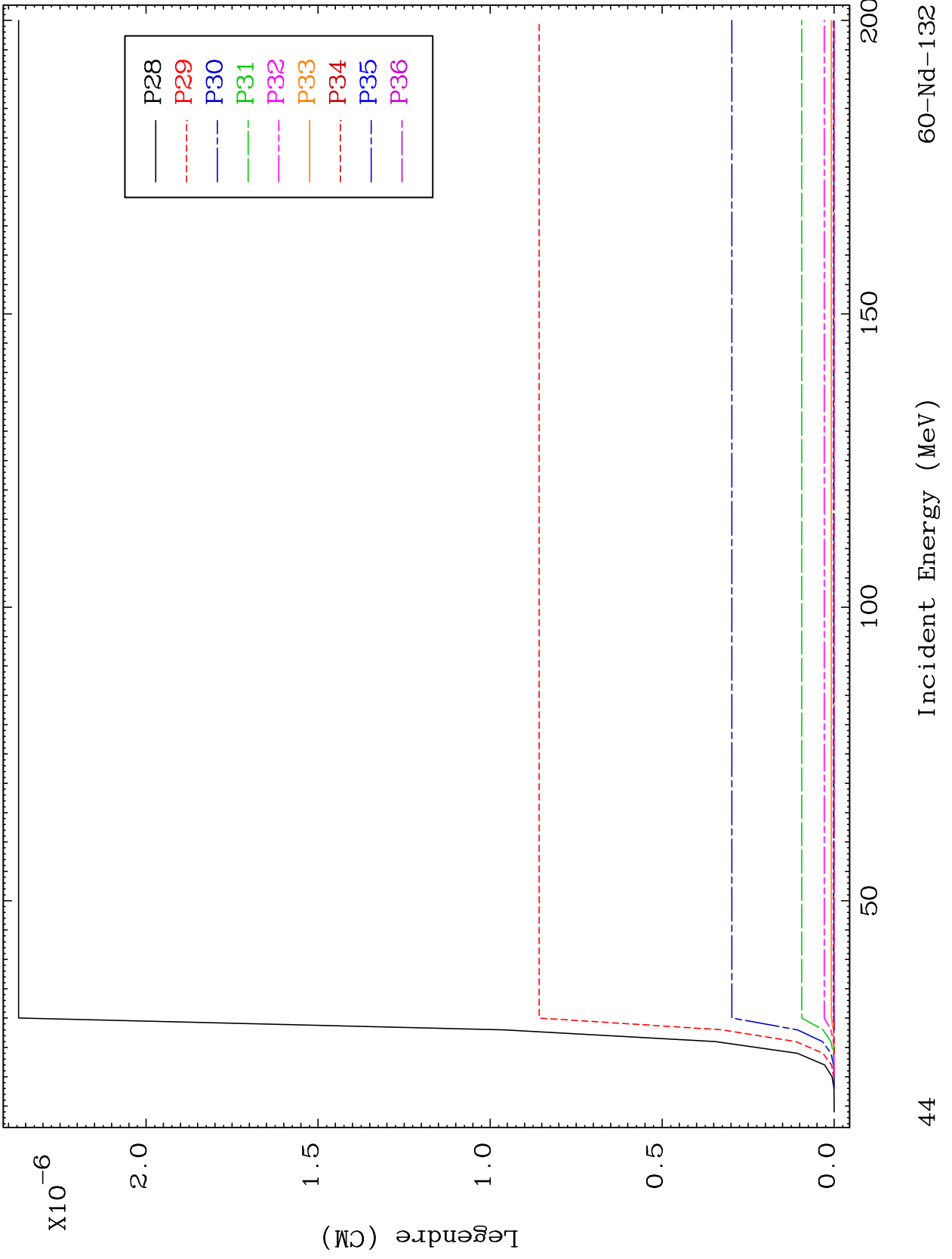
60-Nd-132



MAT 5995

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

60-Nd-132

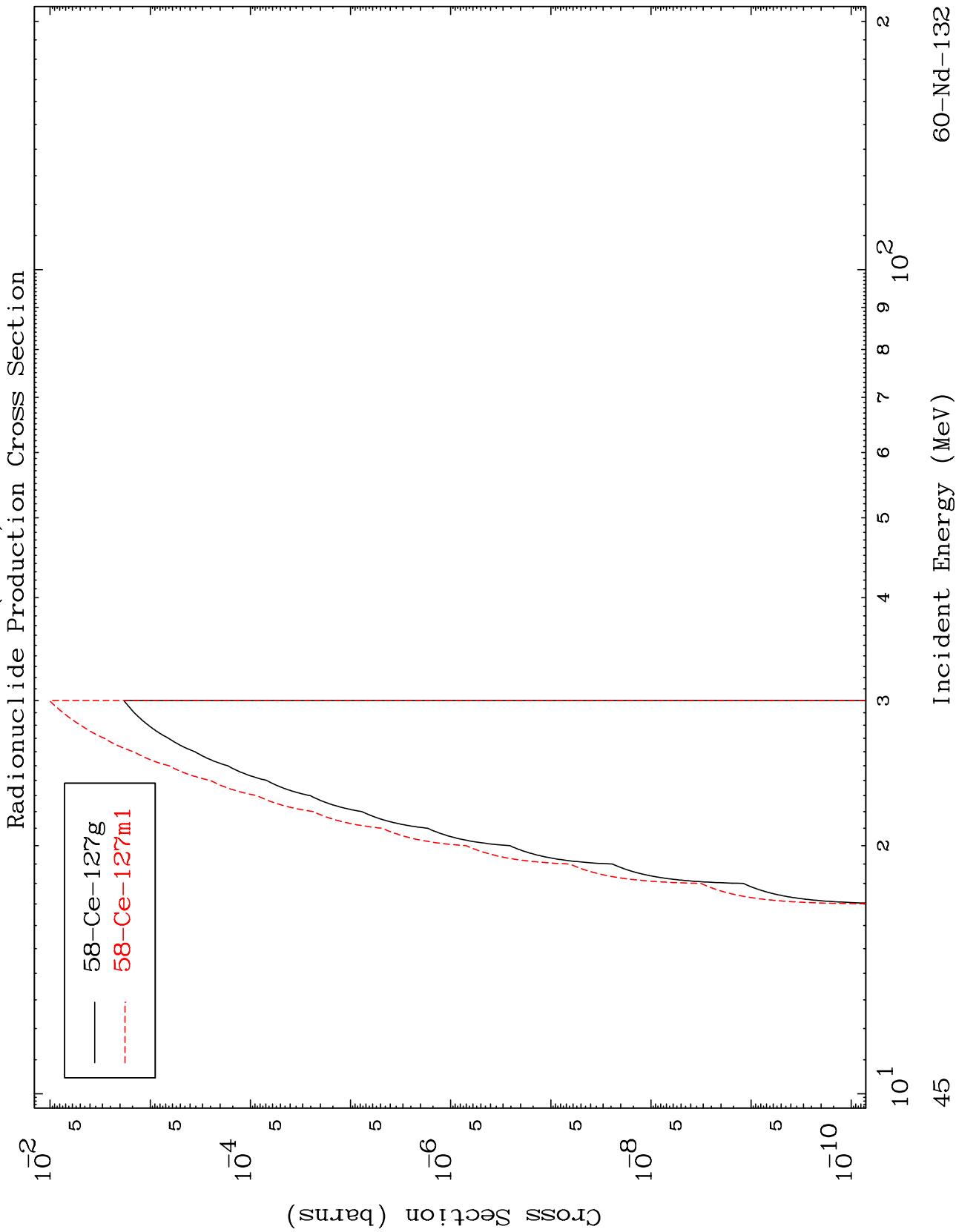


44

MAT 5995

(n,2n) α

60-Nd-132

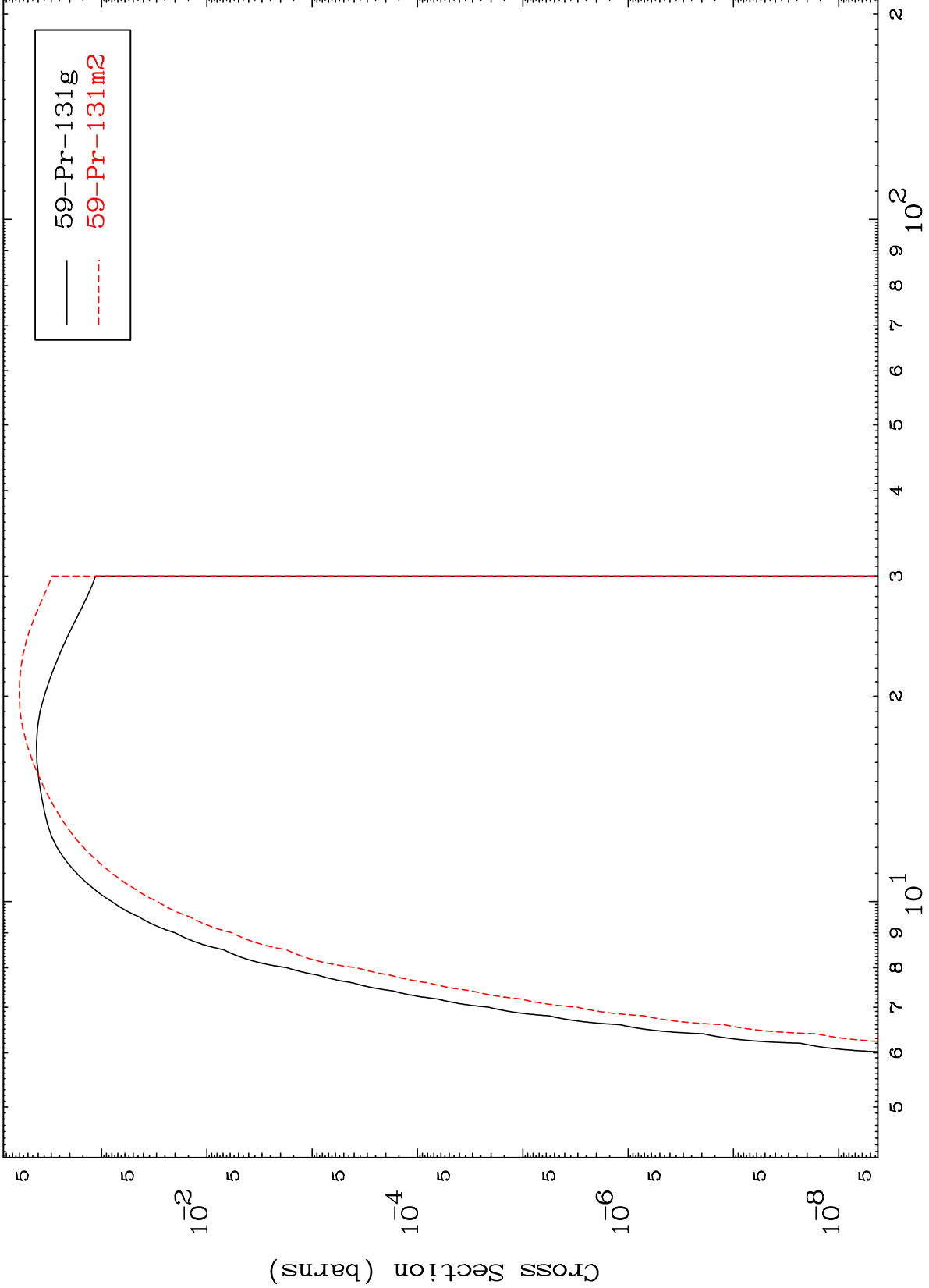


MAT 5995

(n,n') p

60-Nd-132

Radionuclide Production Cross Section



46

Incident Energy (MeV)

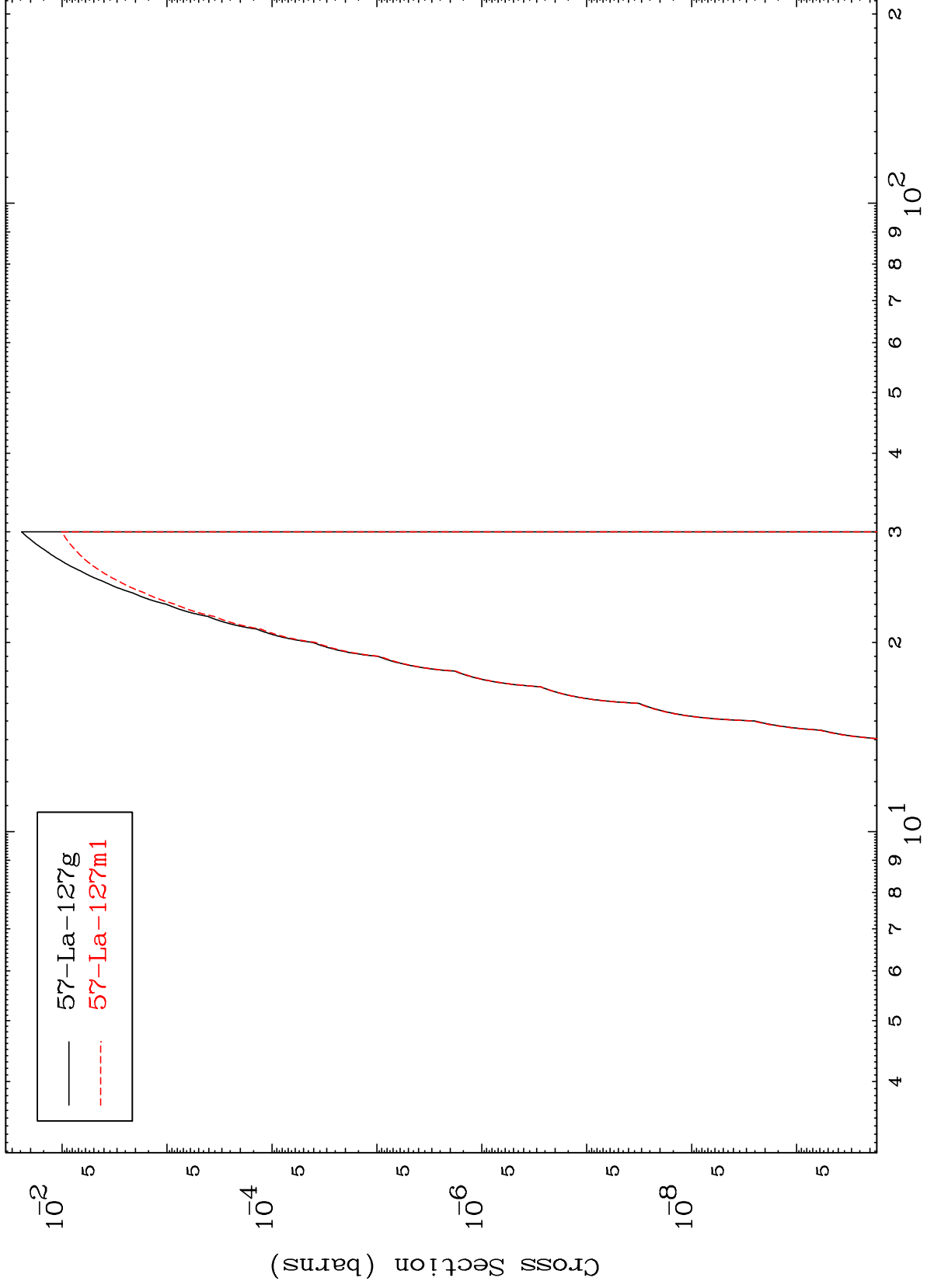
60-Nd-132

MAT 5995

(n,n') p α

60-Nd-132

Radionuclide Production Cross Section



57-La-127g
57-La-127m1

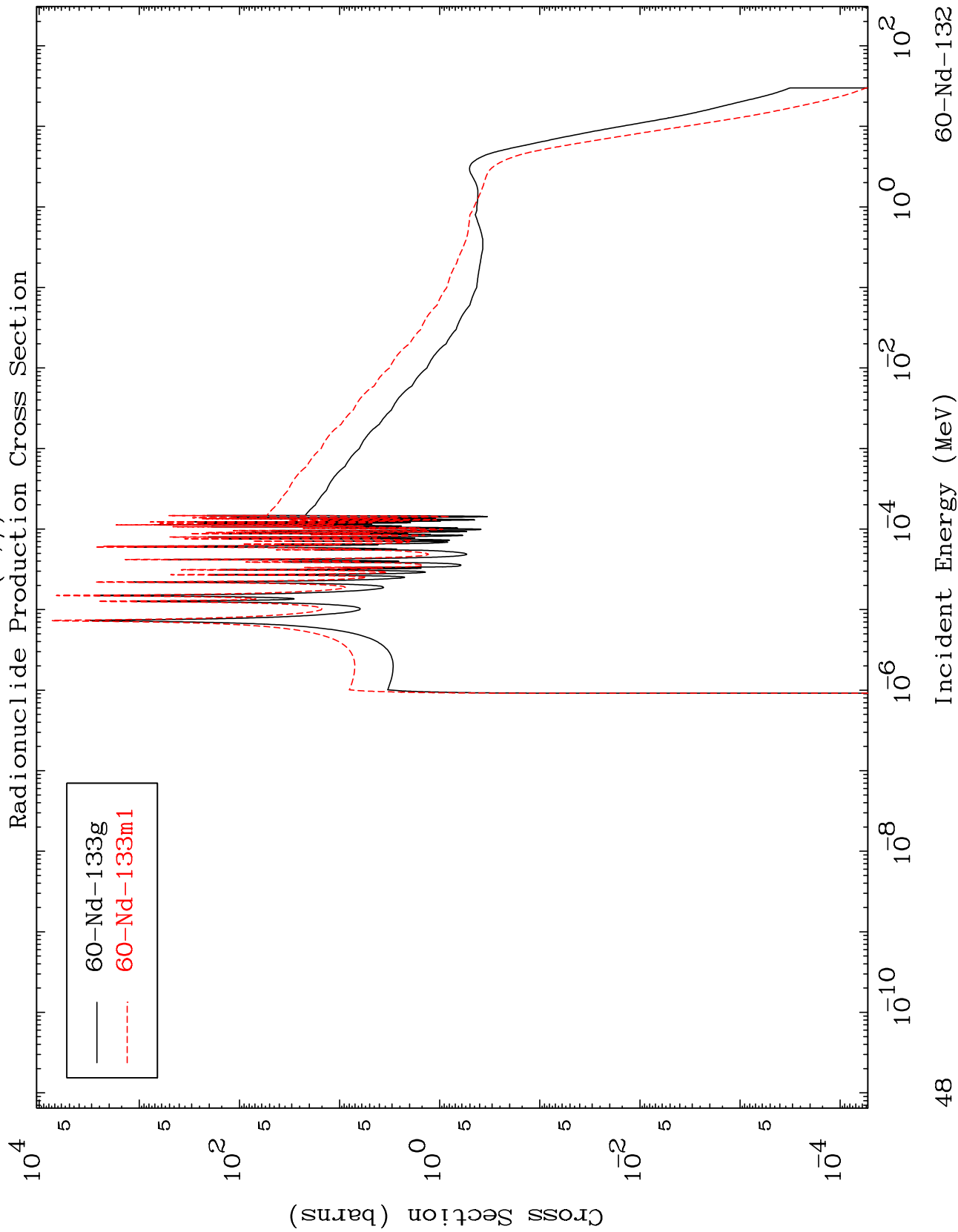
47

Incident Energy (MeV)

60-Nd-132

MAT 5995

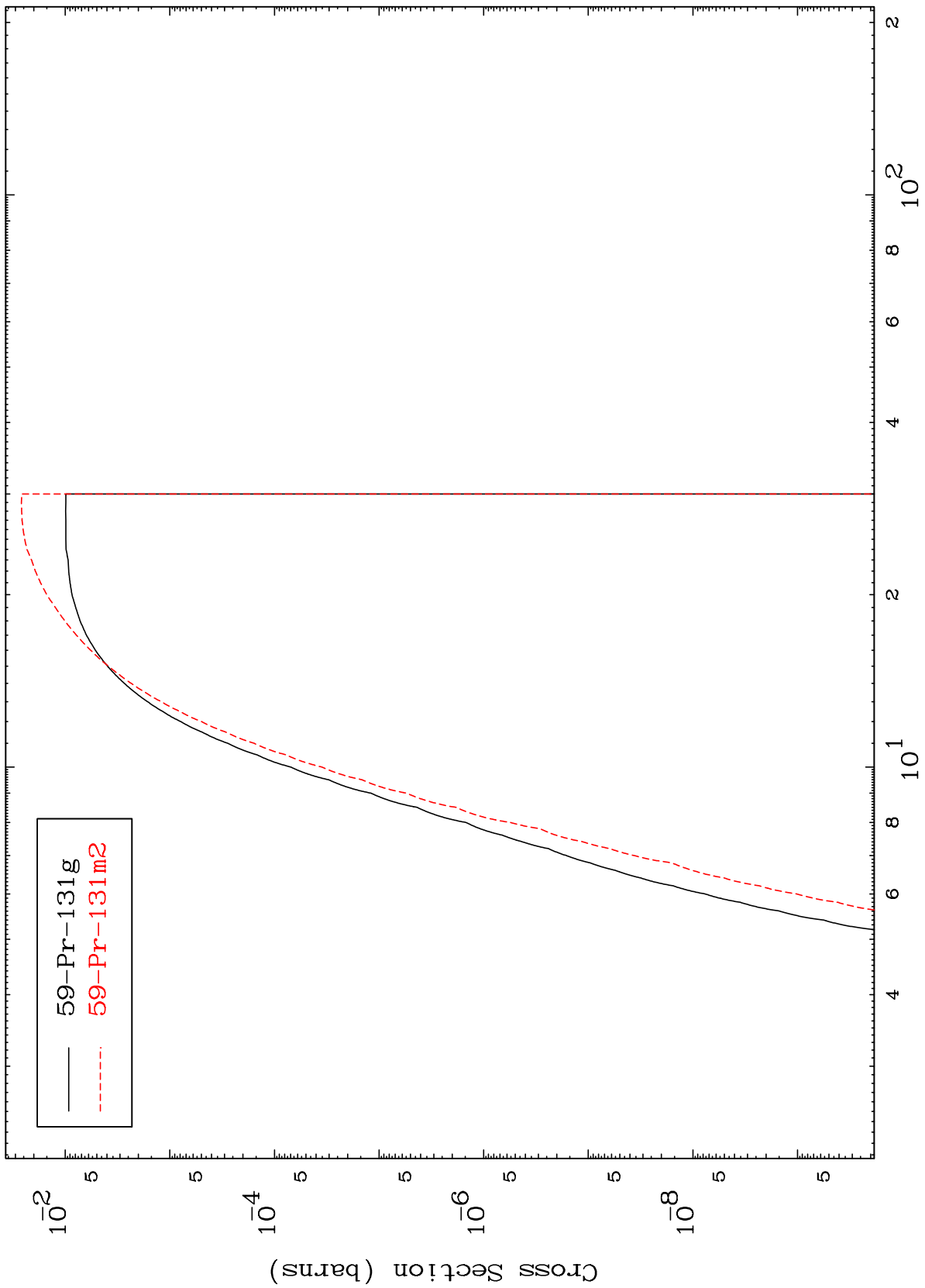
60-Nd-132



MAT 5995

60-Nd-132

(n,d)
Radionuclide Production Cross Section



49

60-Nd-132

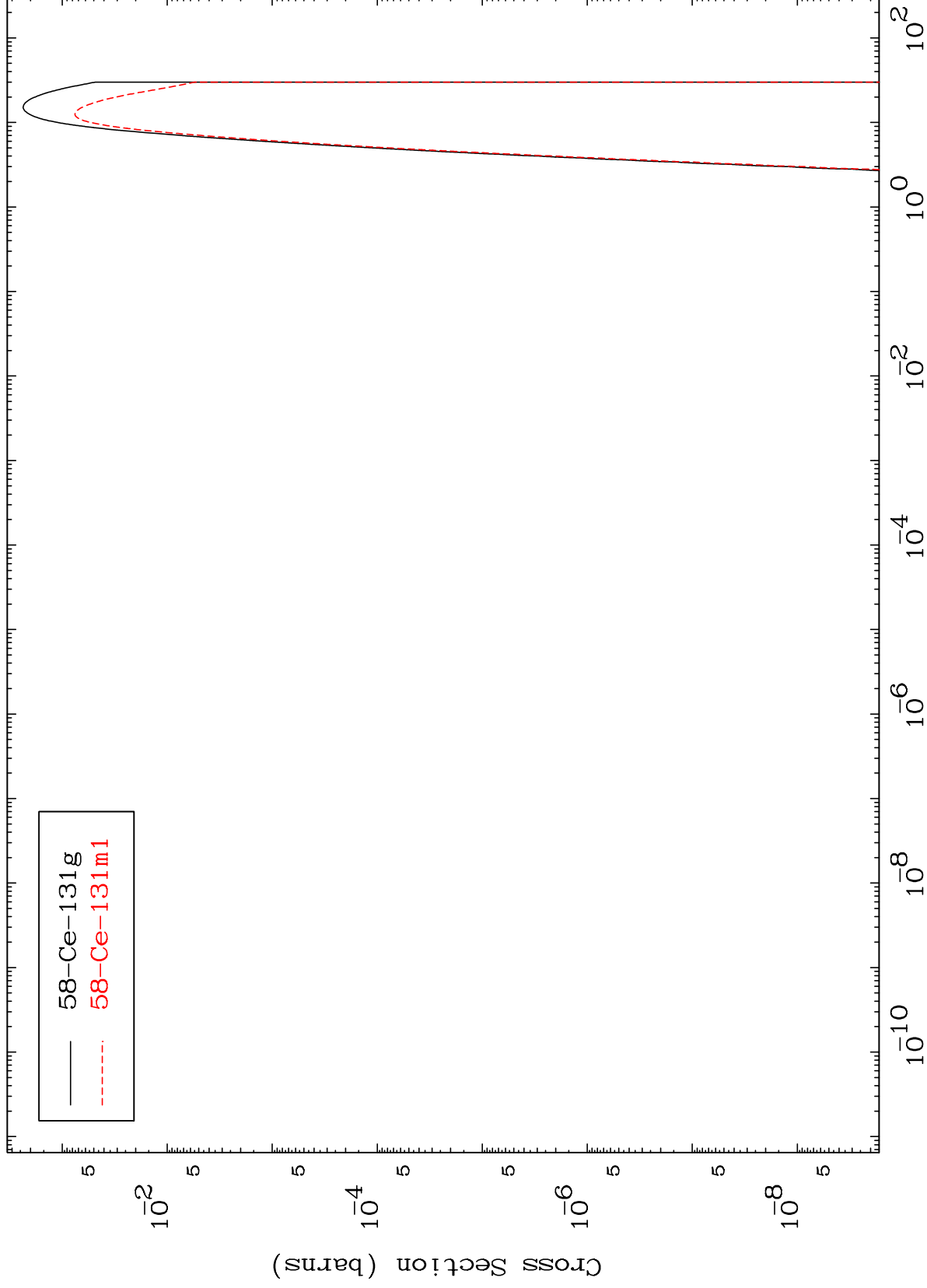
Incident Energy (MeV)

MAT 5995

(n,2p)

60-Nd-132

Radionuclide Production Cross Section



50

Incident Energy (MeV)

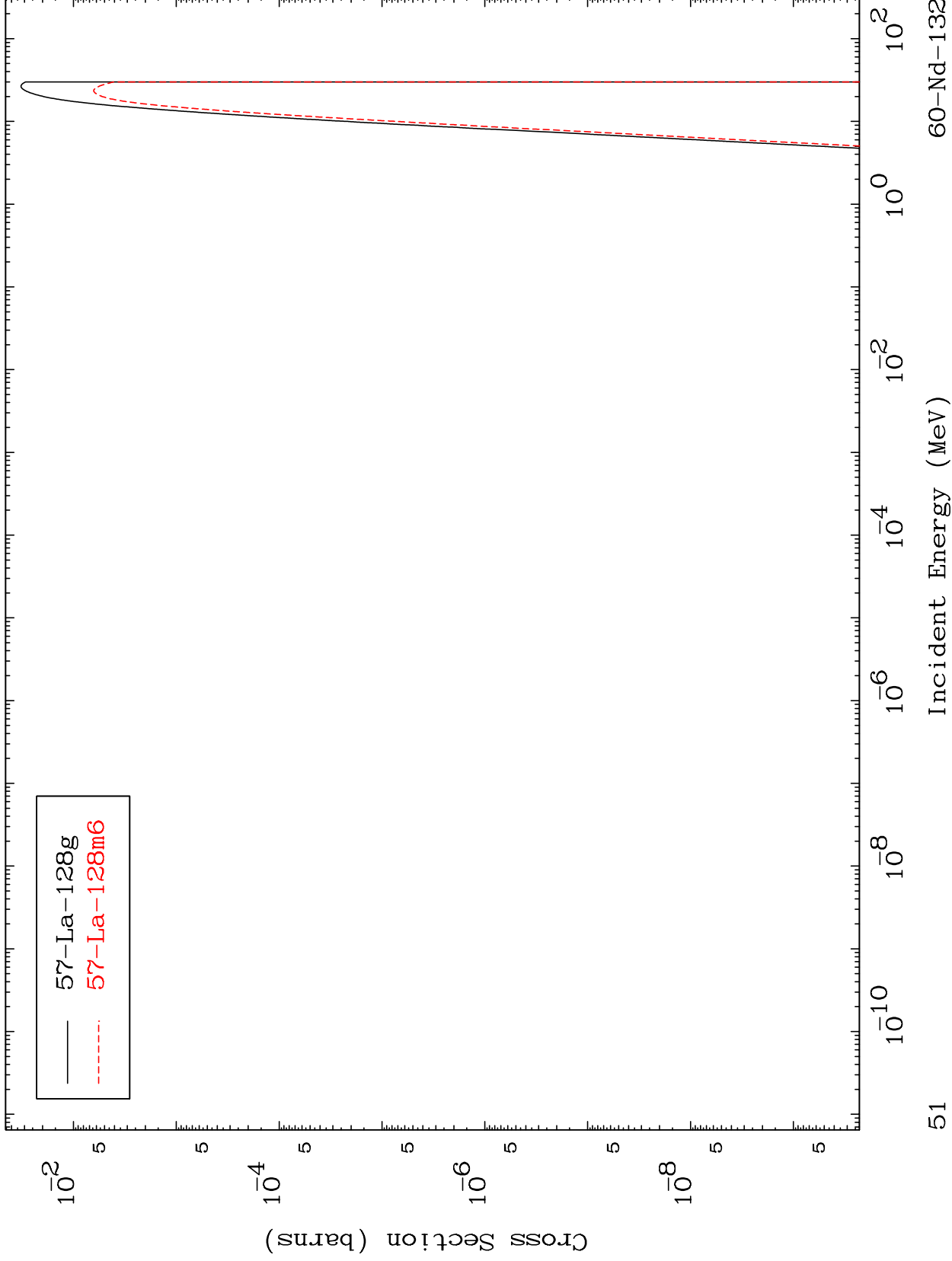
60-Nd-132

MAT 5995

(n,p) α

60-Nd-132

Radionuclide Production Cross Section

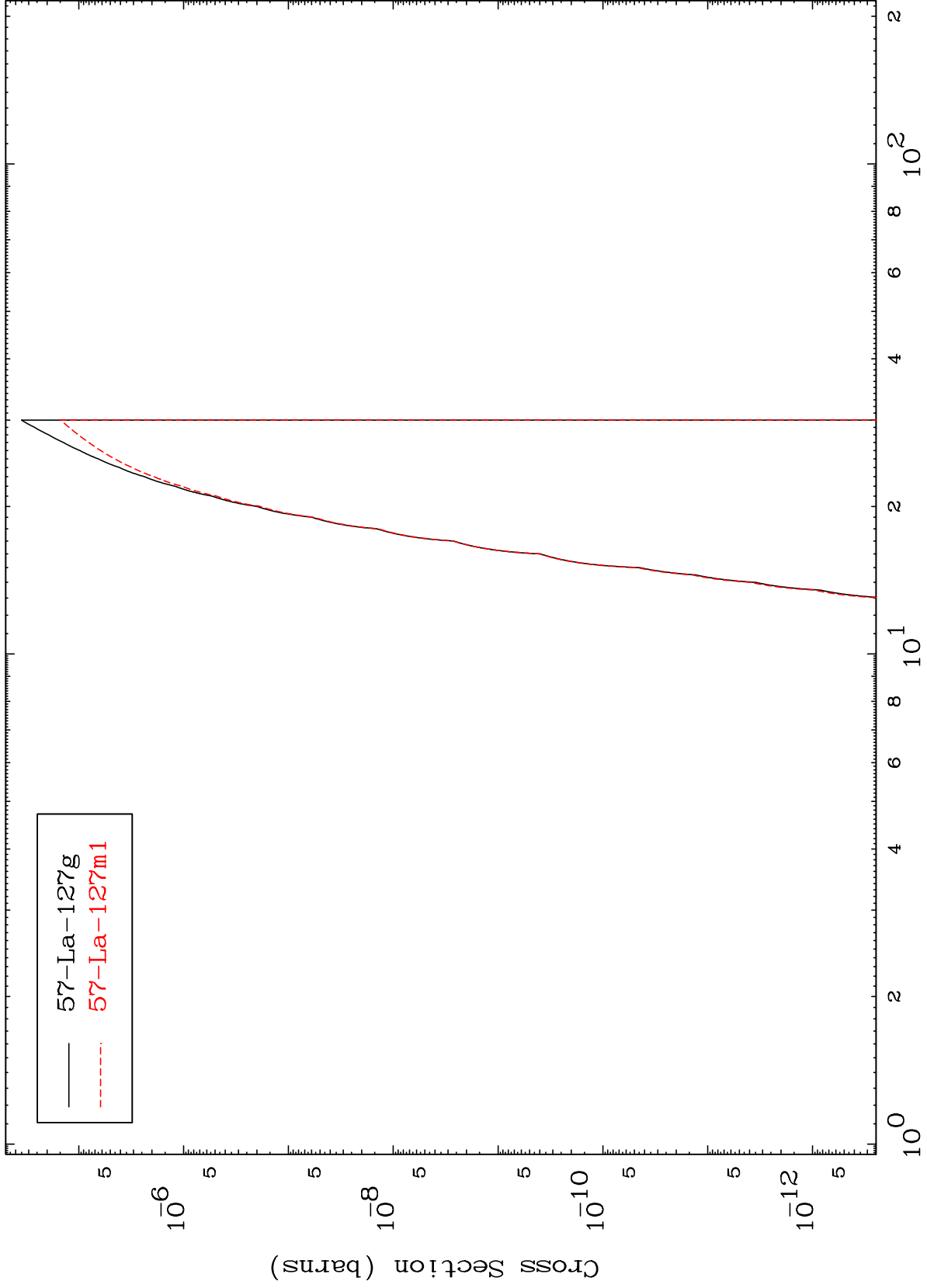


MAT 5995

(n,d) α

60-Nd-132

Radionuclide Production Cross Section



52

Incident Energy (MeV)

60-Nd-132