

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

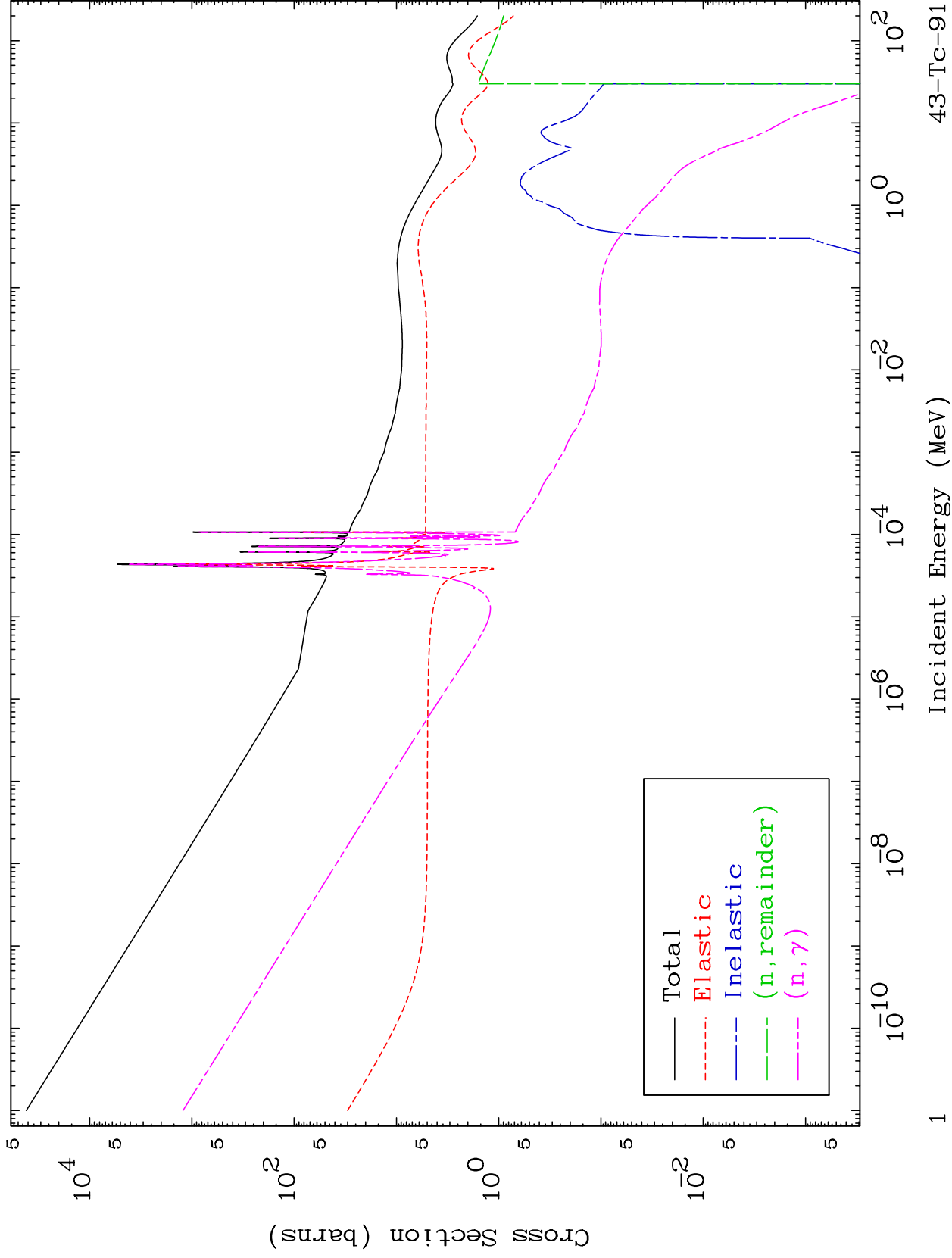
Press Mouse Button to Start

MAT 4301

Major

293 Kelvin Cross Sections

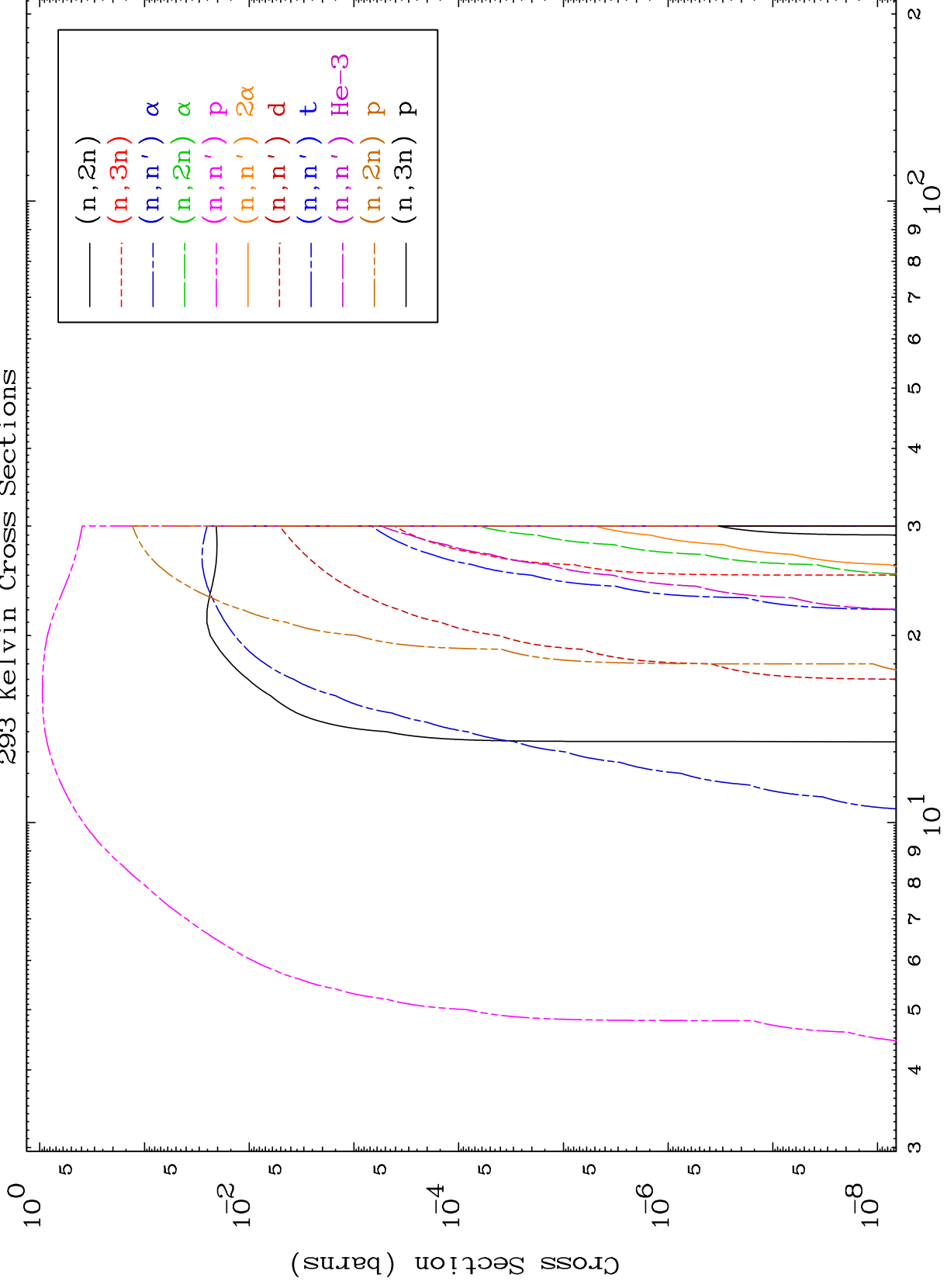
43-Tc-91



MAT 4301

Neutron Production  
293 Kelvin Cross Sections

43-Tc-91



2

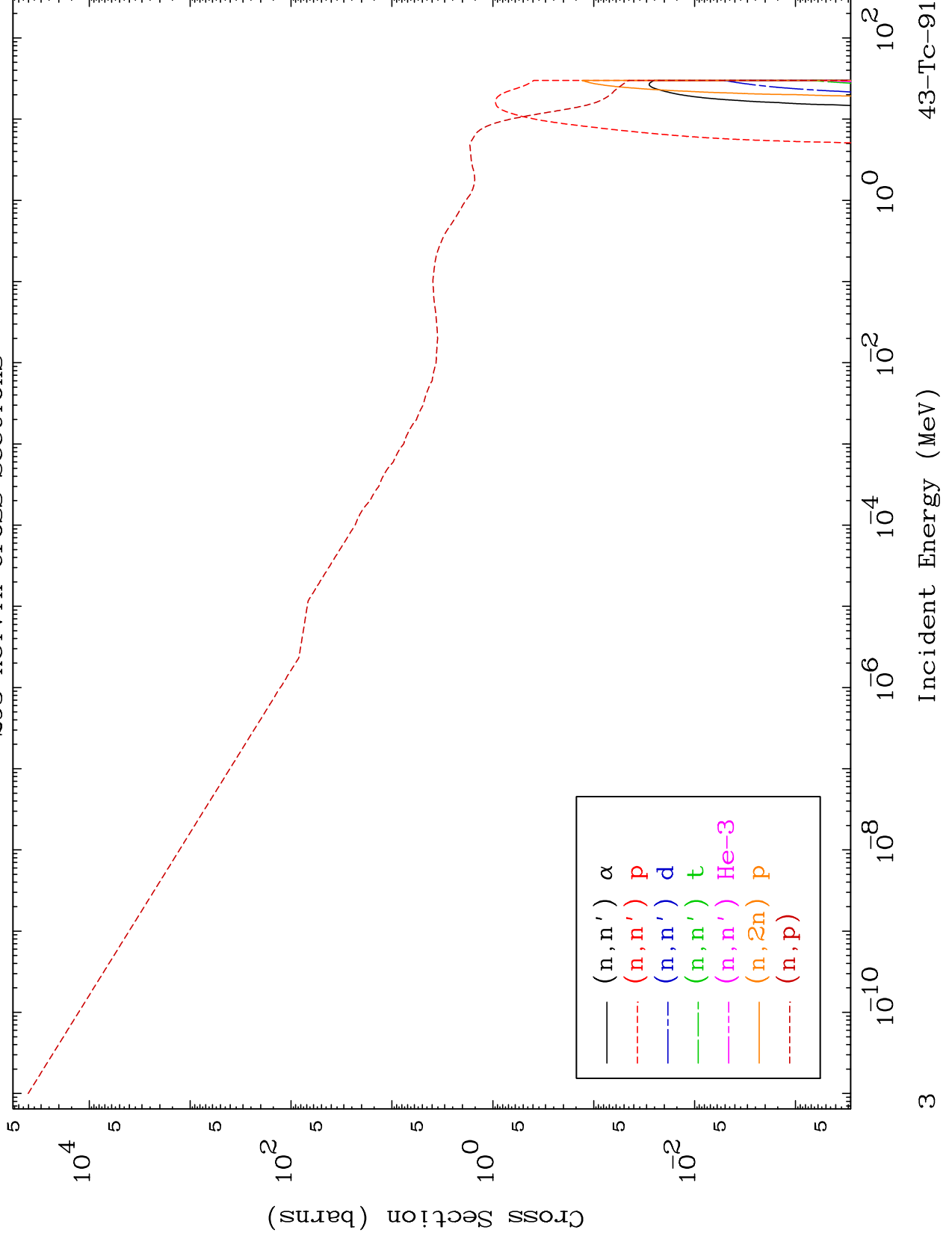
Incident Energy (MeV)

43-Tc-91

MAT 4301

Charged Particle  
293 Kelvin Cross Sections

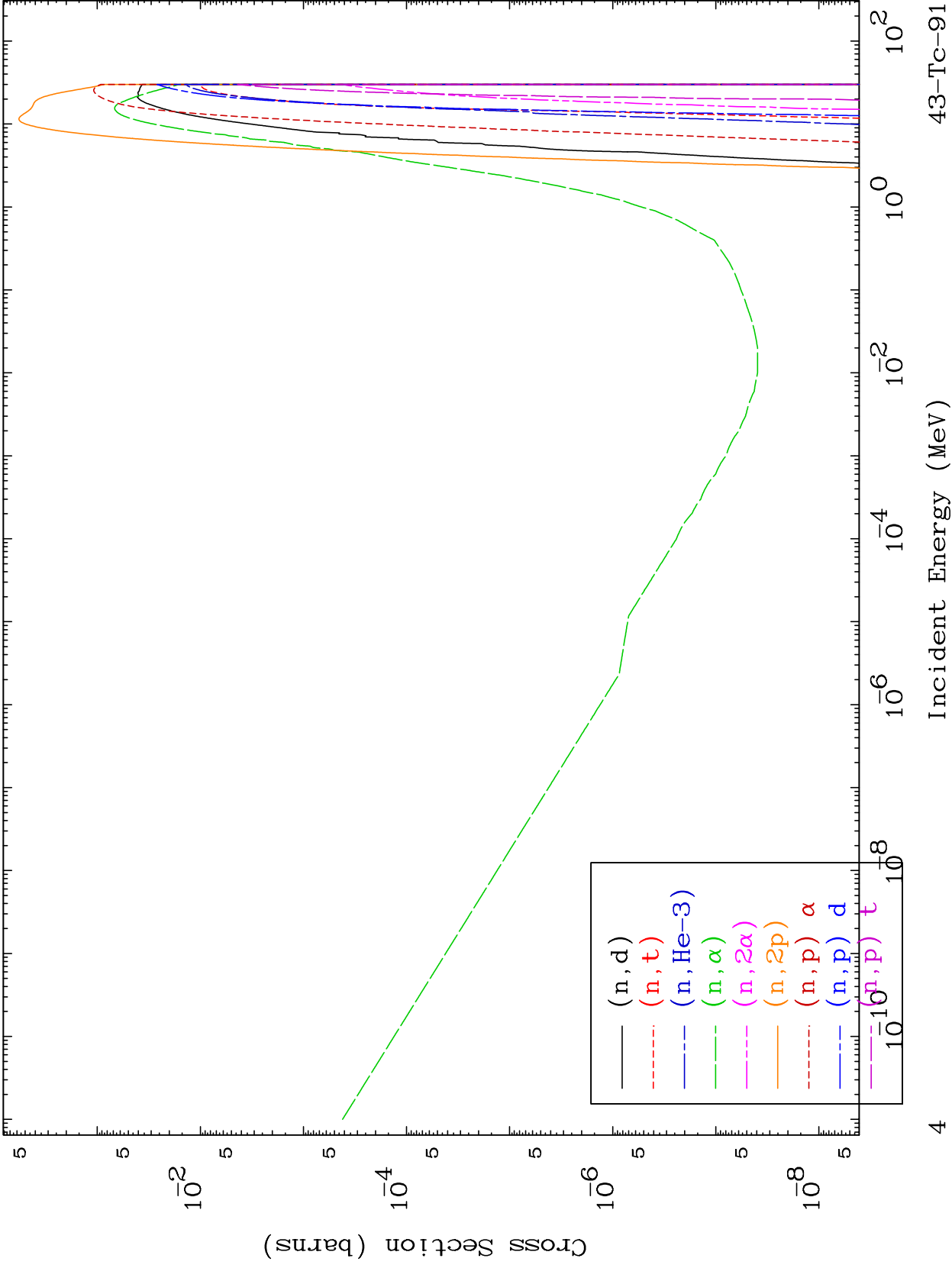
43-Tc-91



MAT 4301

Charged Particle  
293 Kelvin Cross Sections

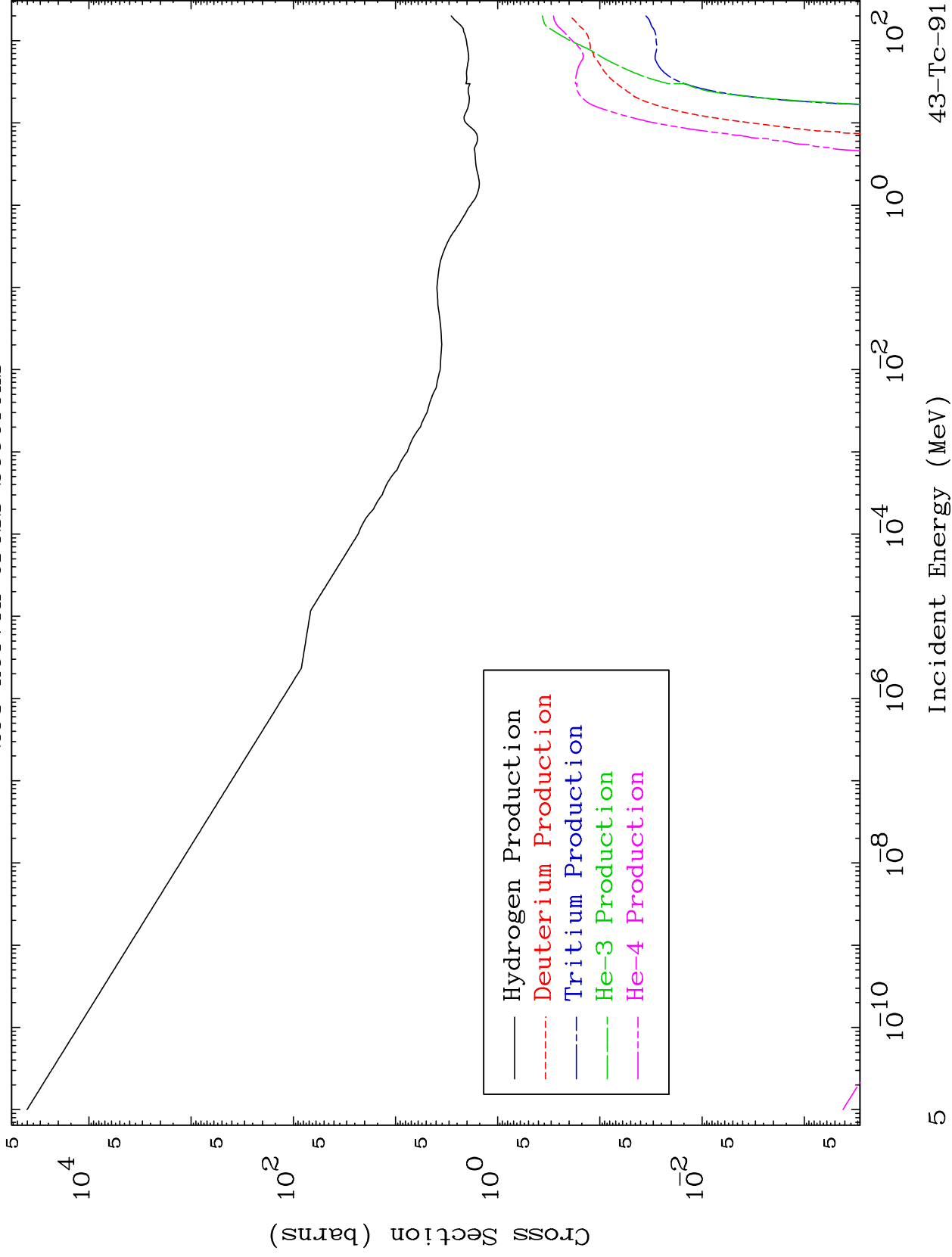
43-Tc-91



MAT 4301

Particle Production  
293 Kelvin Cross Sections

43-Tc-91

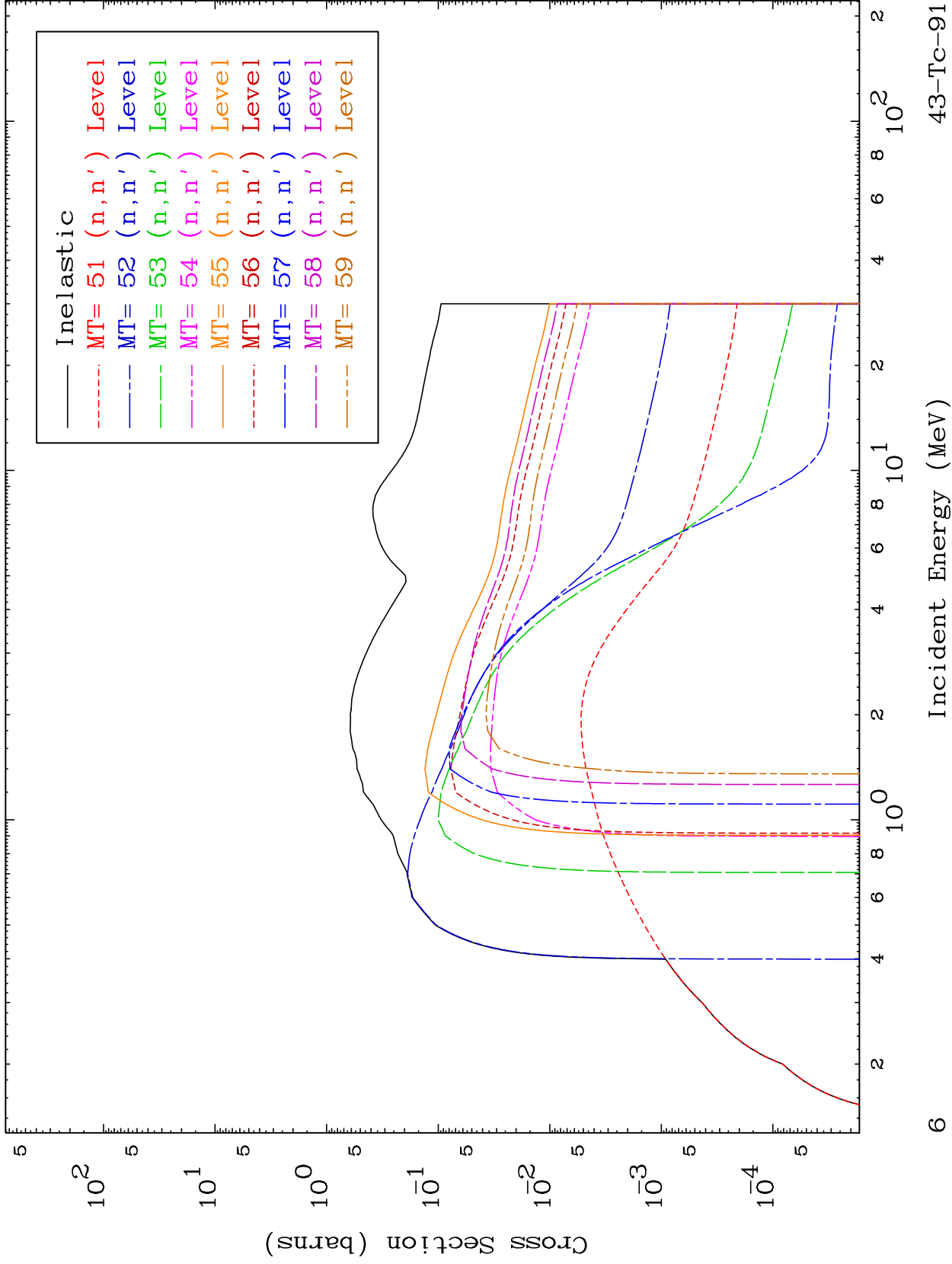


5

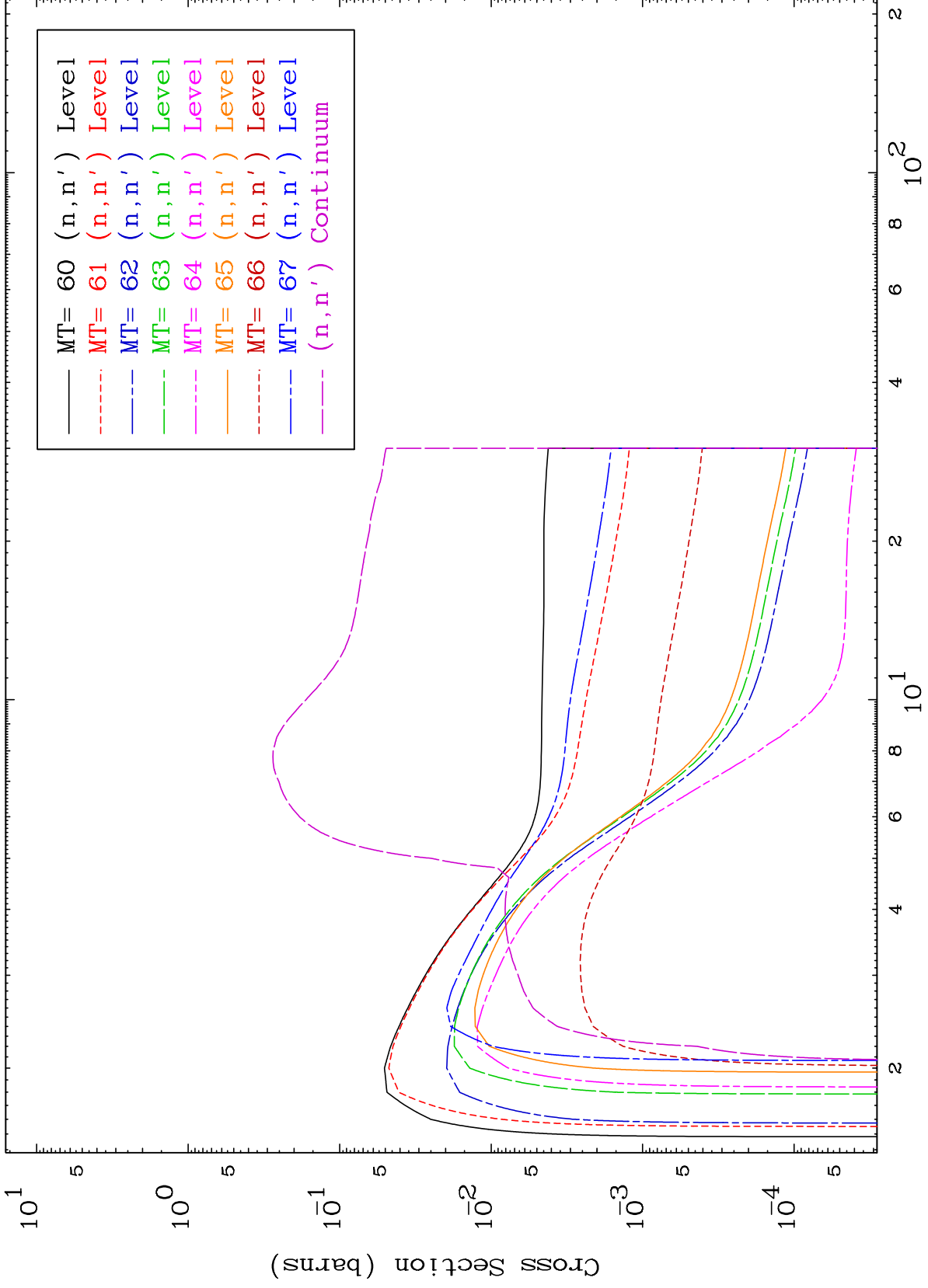
Incident Energy (MeV)

43-Tc-91

293 Kelvin Cross Sections



293 Kelvin Cross Sections

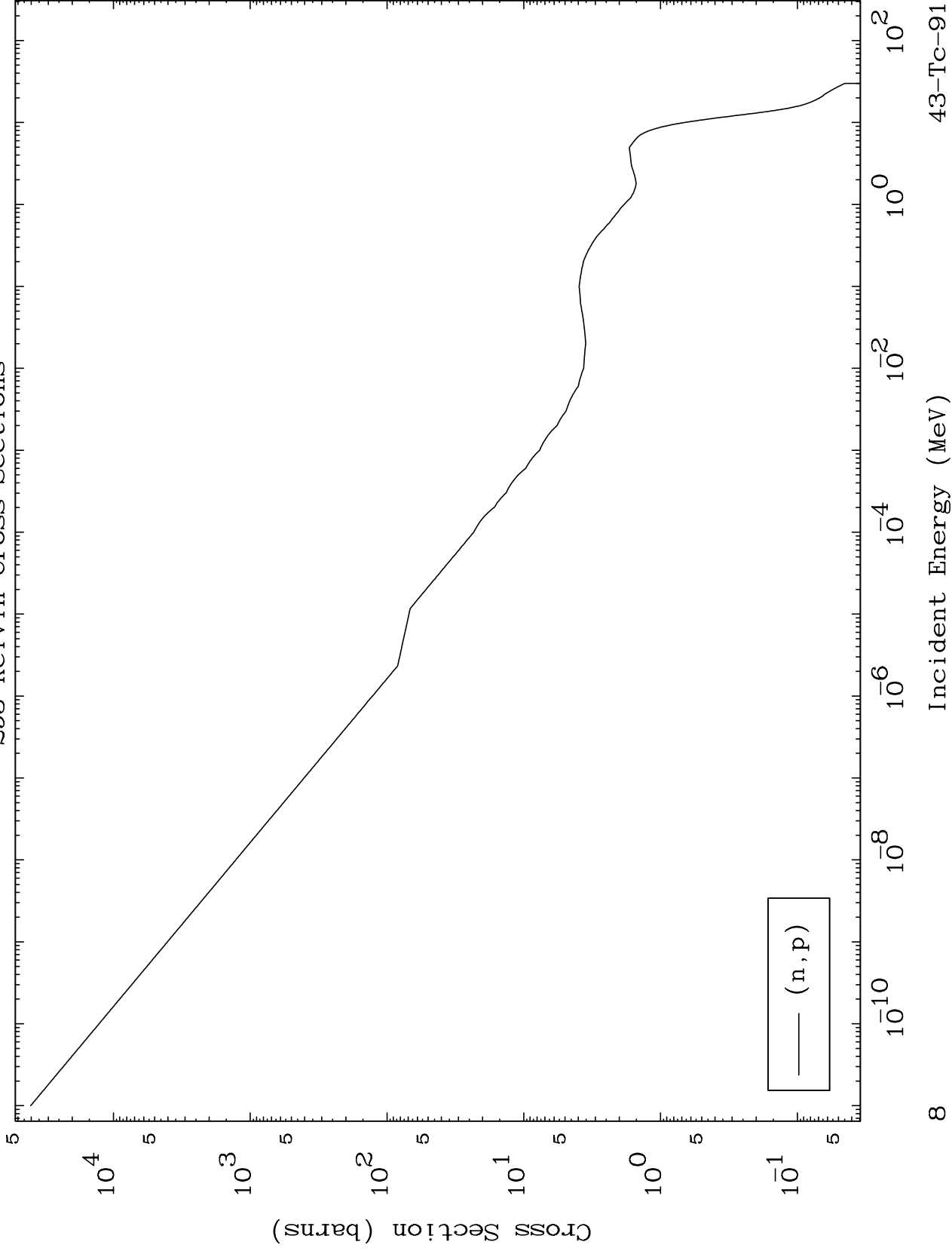




MAT 4301

(n,p) Levels  
293 Kelvin Cross Sections

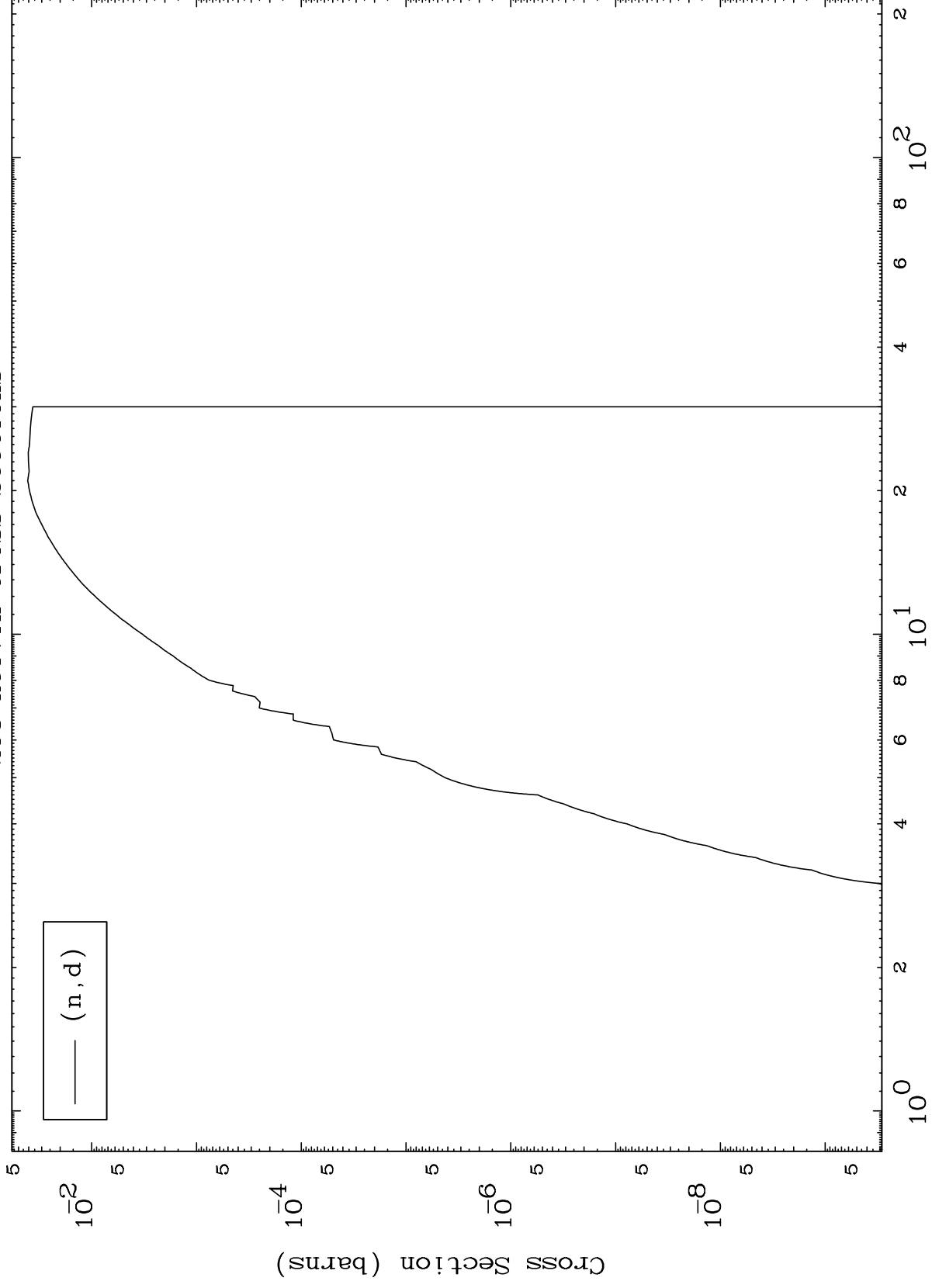
43-Tc-91



MAT 4301

(n,d) Levels  
293 Kelvin Cross Sections

43-Tc-91



9

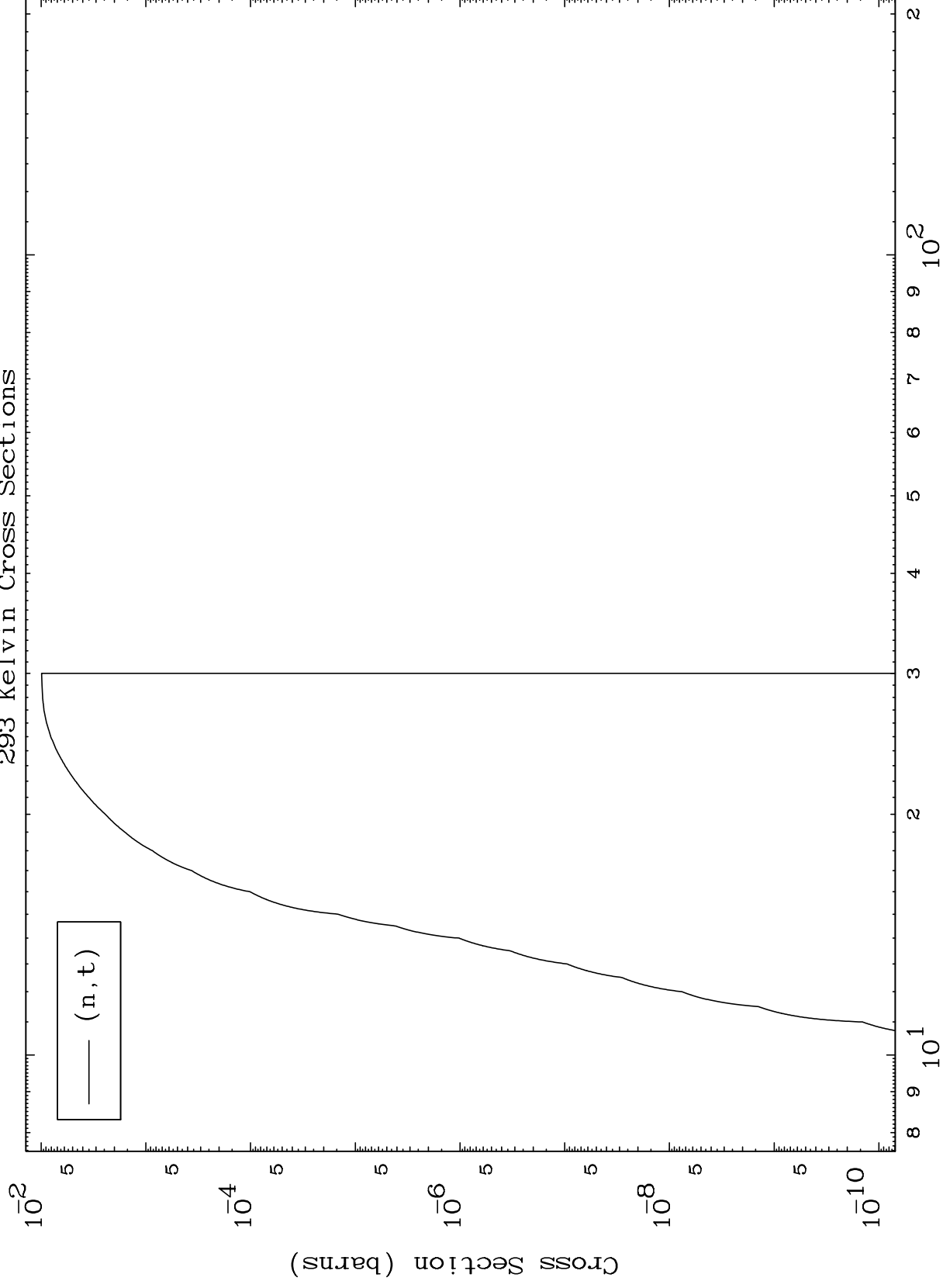
Incident Energy (MeV)

43-Tc-91

MAT 4301

(n,t) Levels  
293 Kelvin Cross Sections

43-Tc-91



10

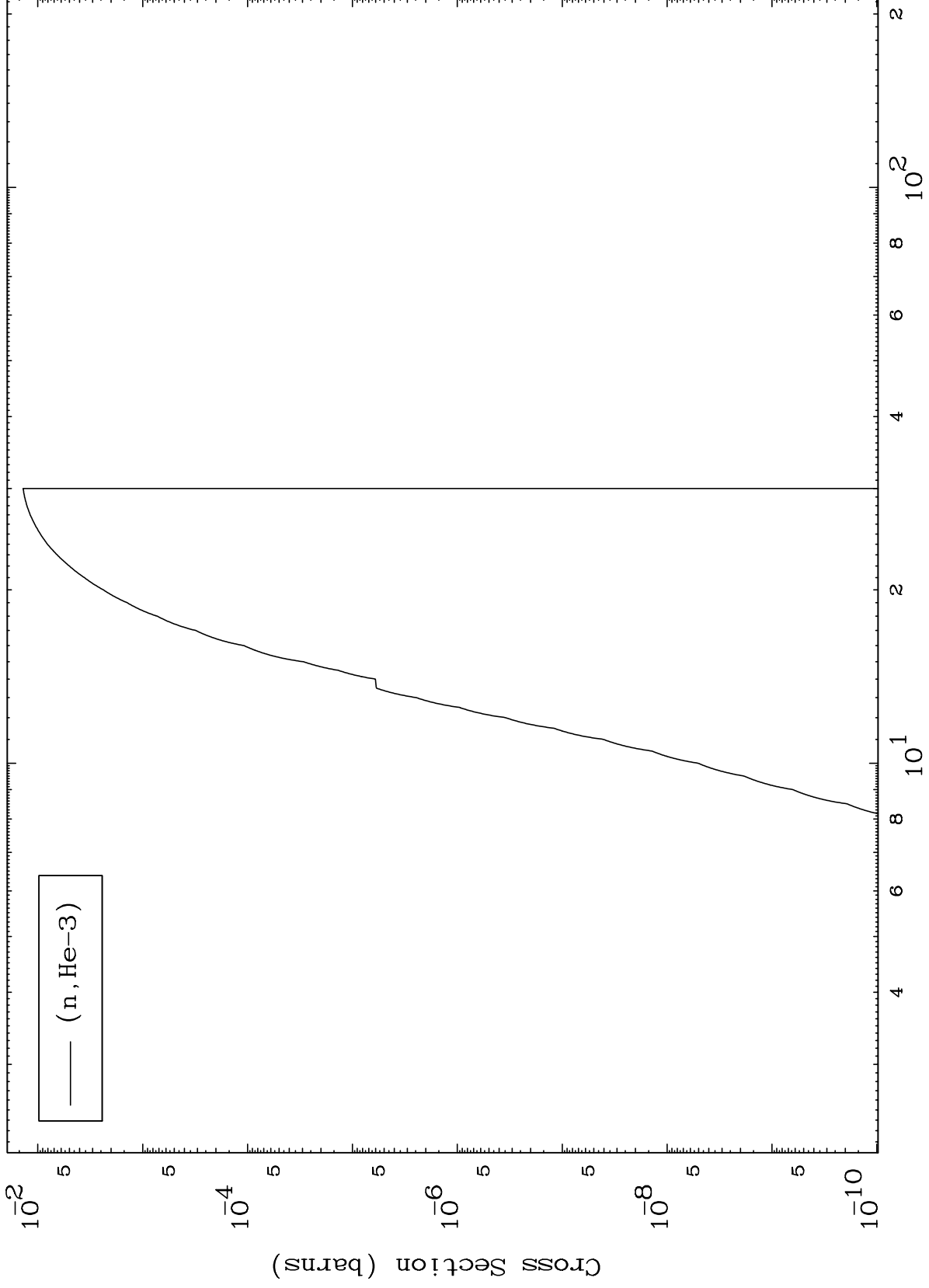
Incident Energy (MeV)

43-Tc-91

MAT 4301

(n,He3) Levels  
293 Kelvin Cross Sections

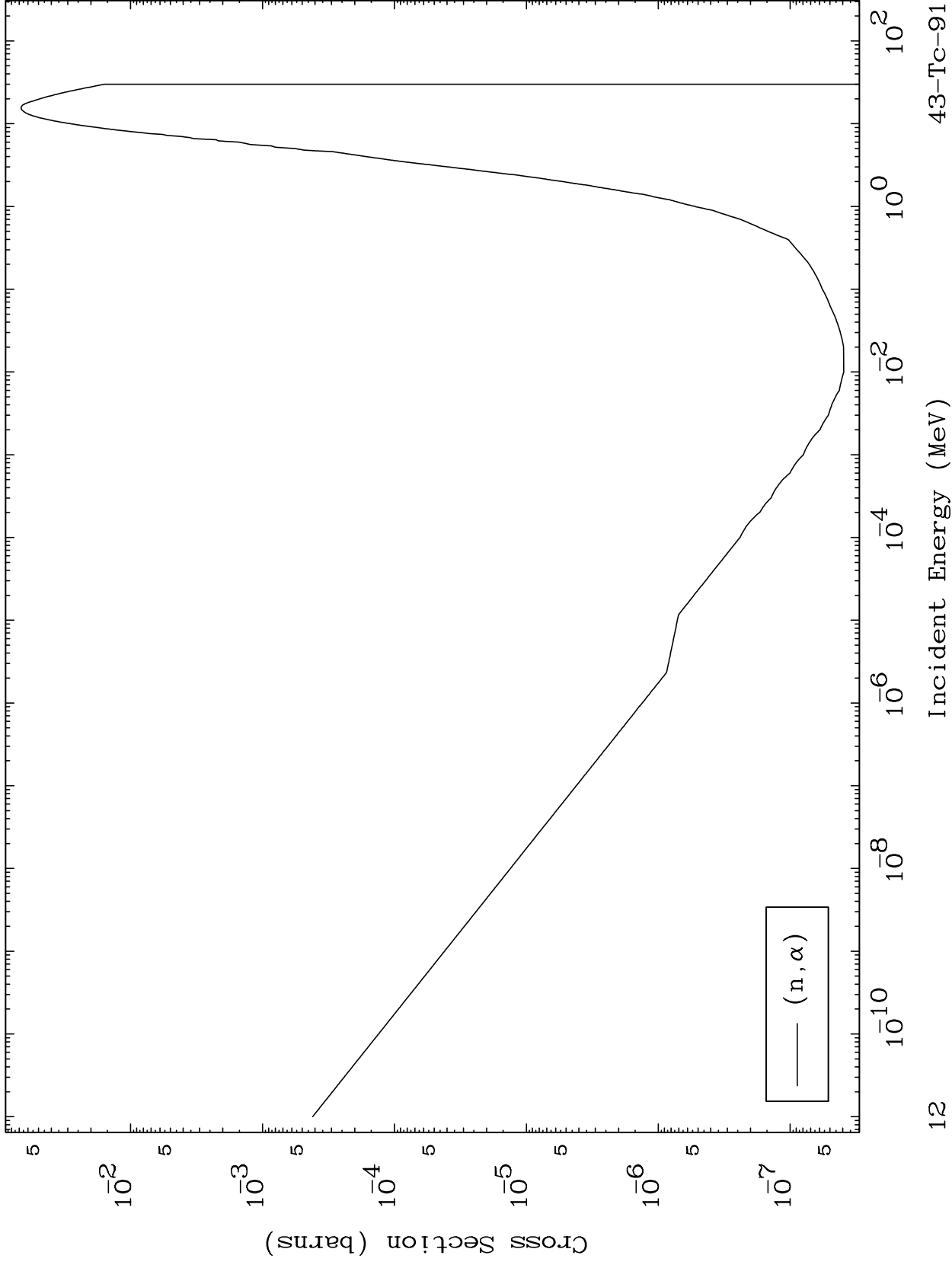
43-Tc-91

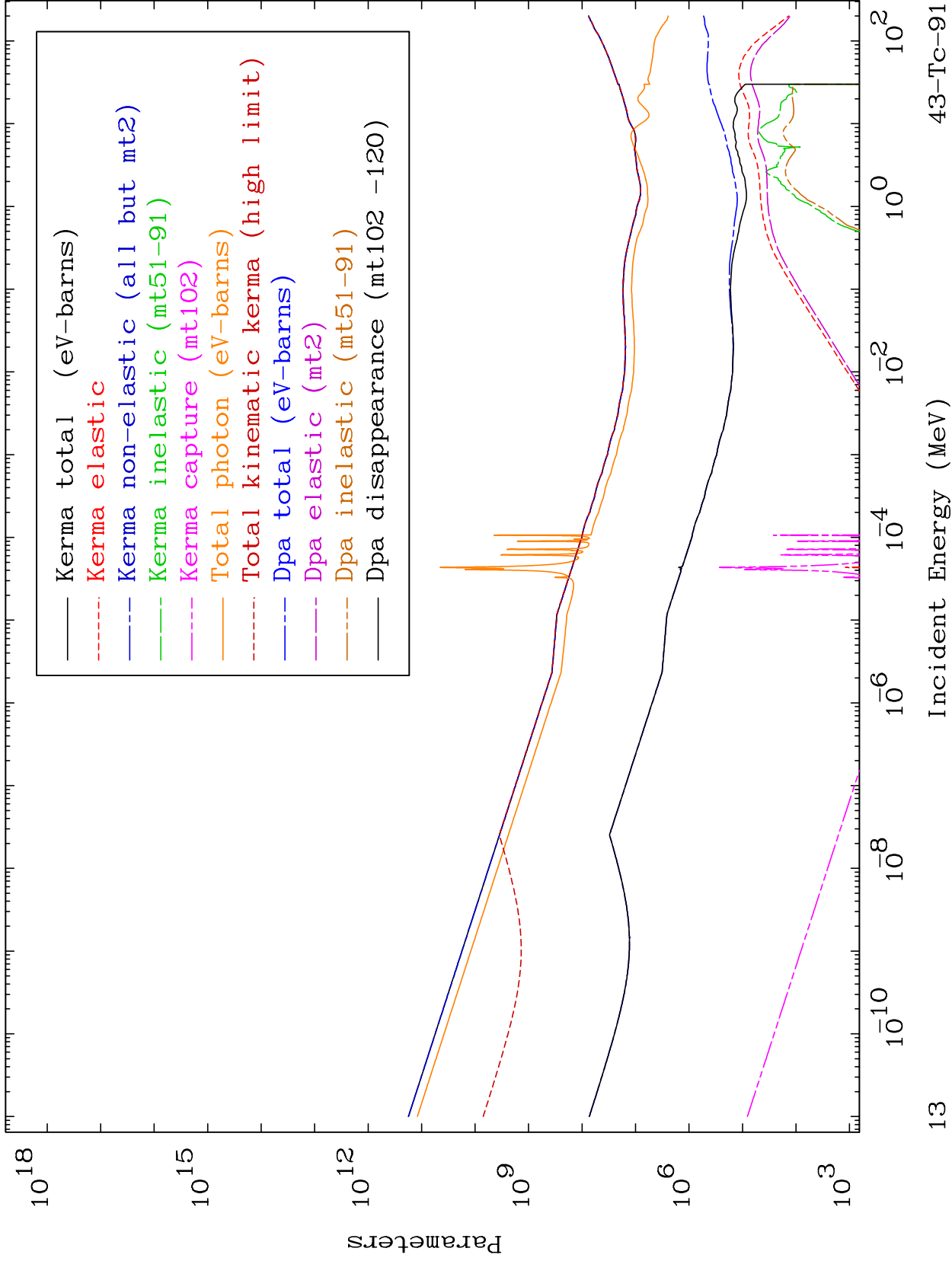


MAT 4301

(n,α) Levels  
293 Kelvin Cross Sections

43-Tc-91

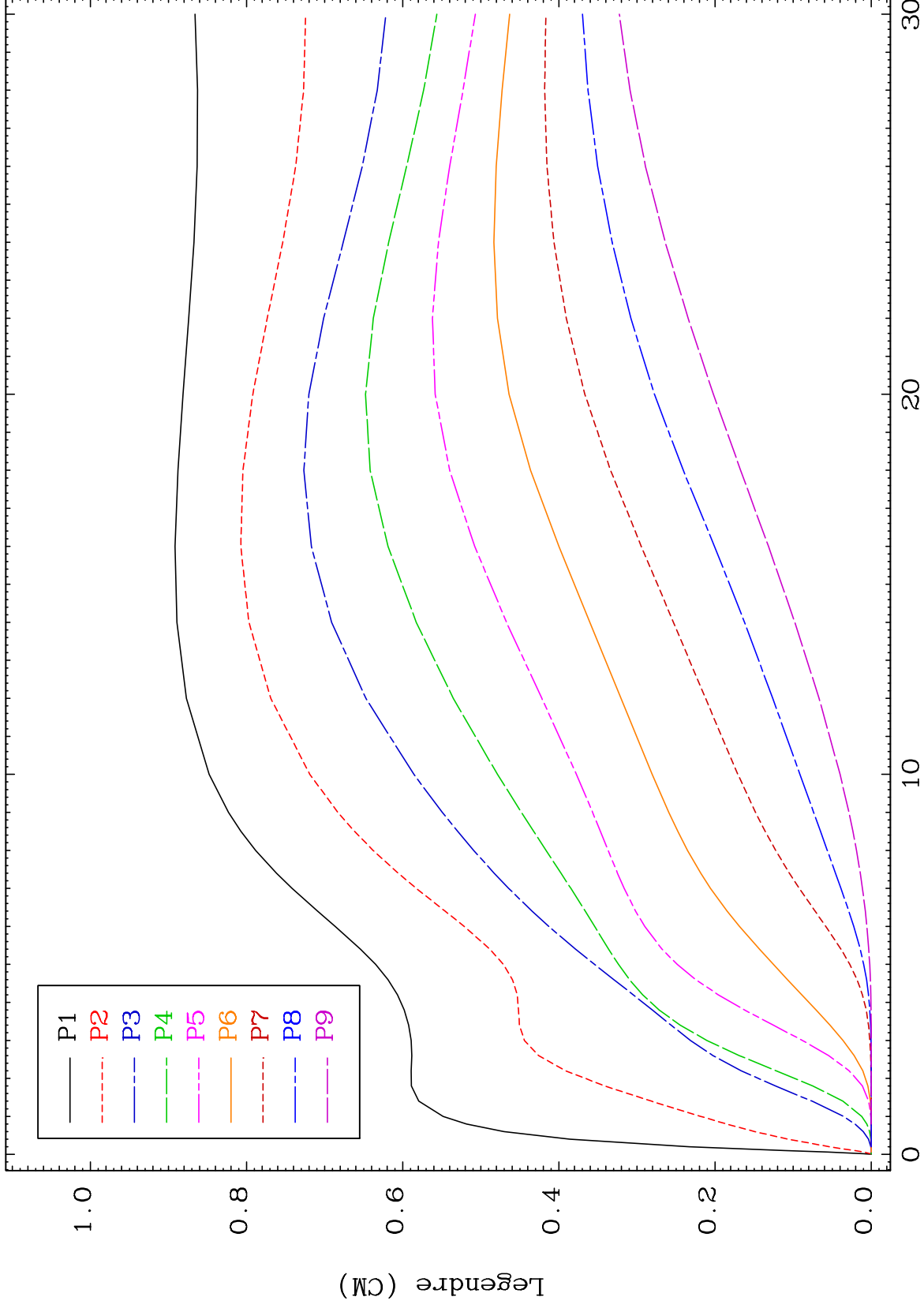




MAT 4301

Elastic Legendre Coefficients

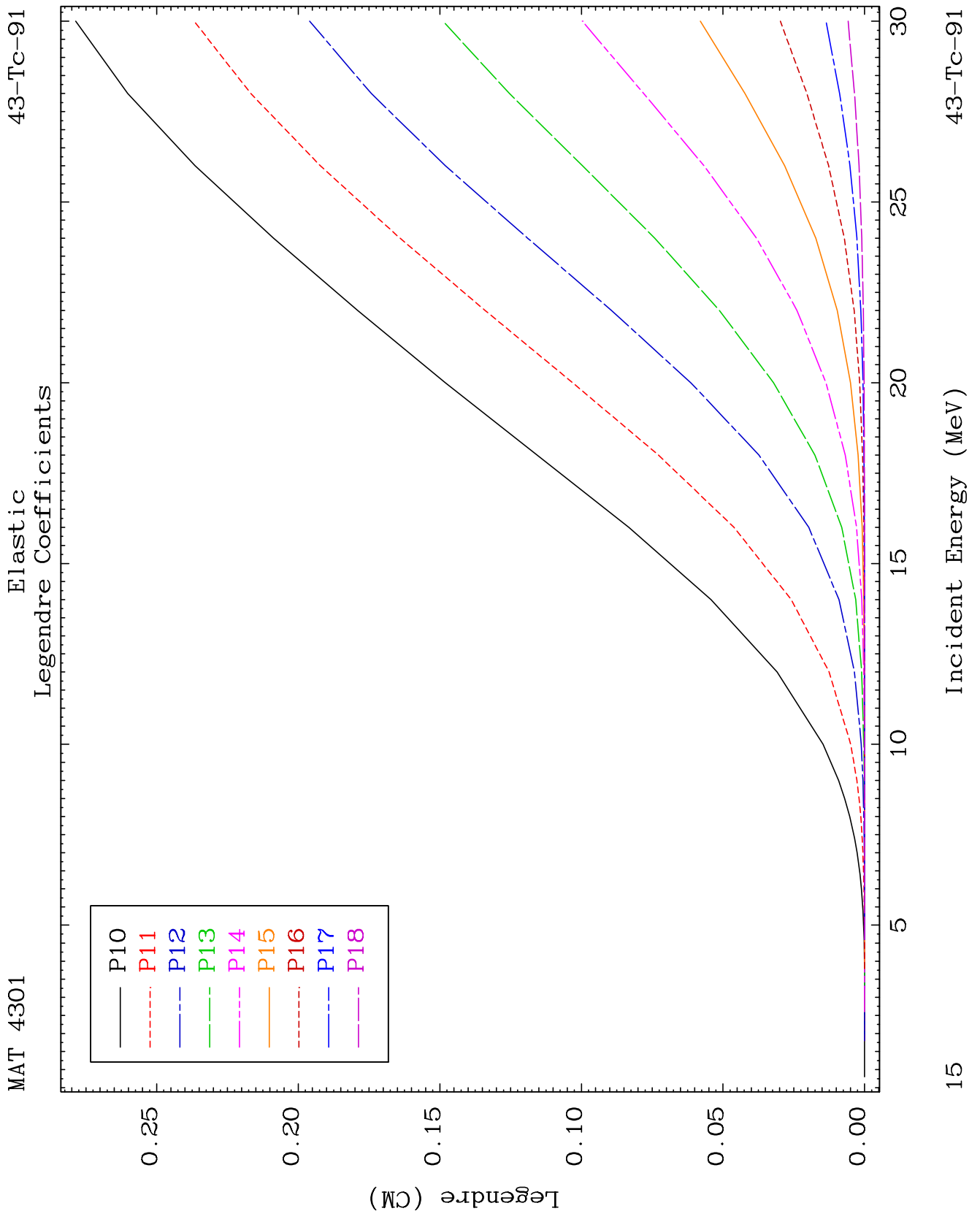
43-Tc-91



14

Incident Energy (MeV)

43-Tc-91

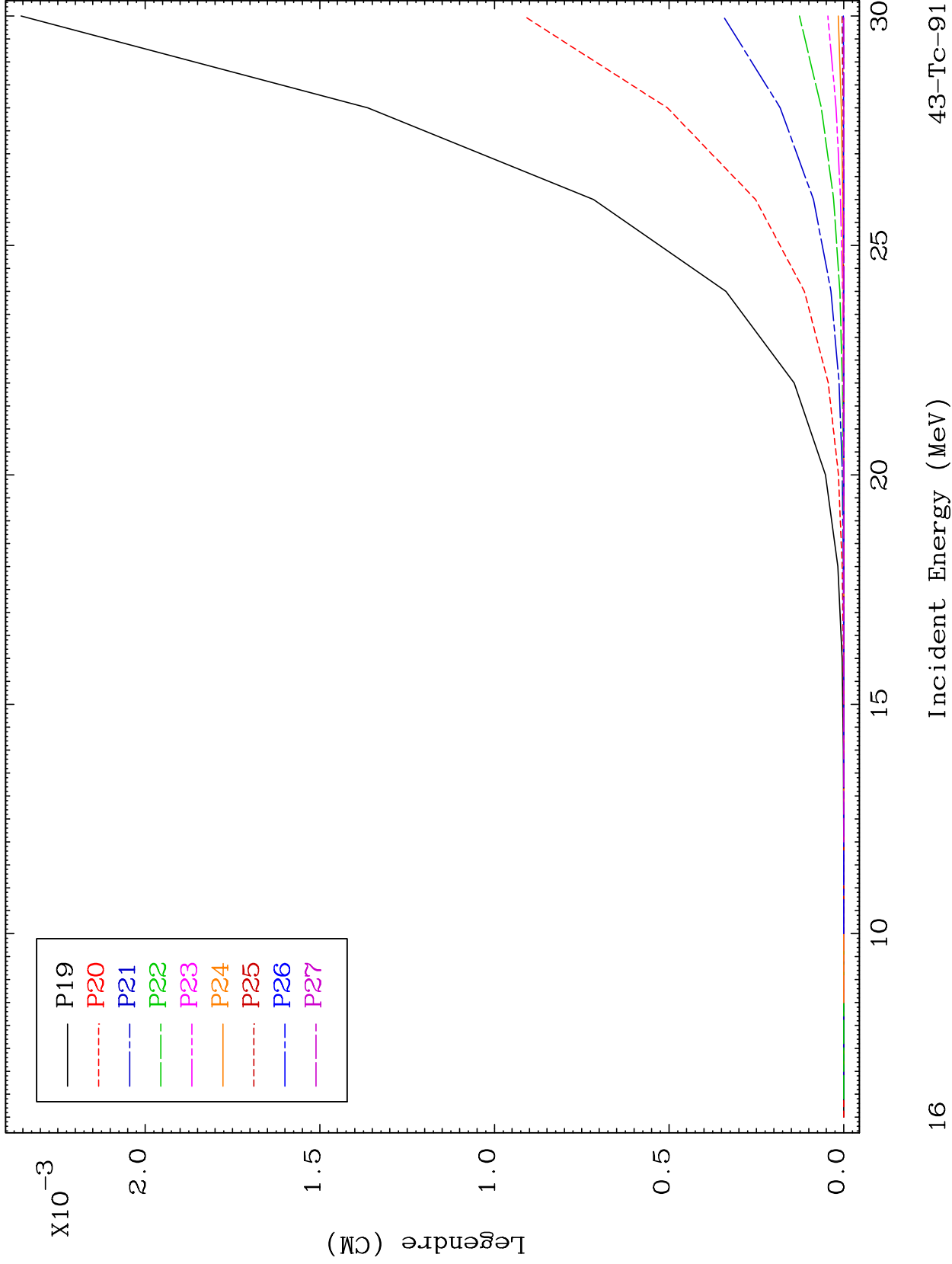




MAT 4301

Elastic  
Legendre Coefficients

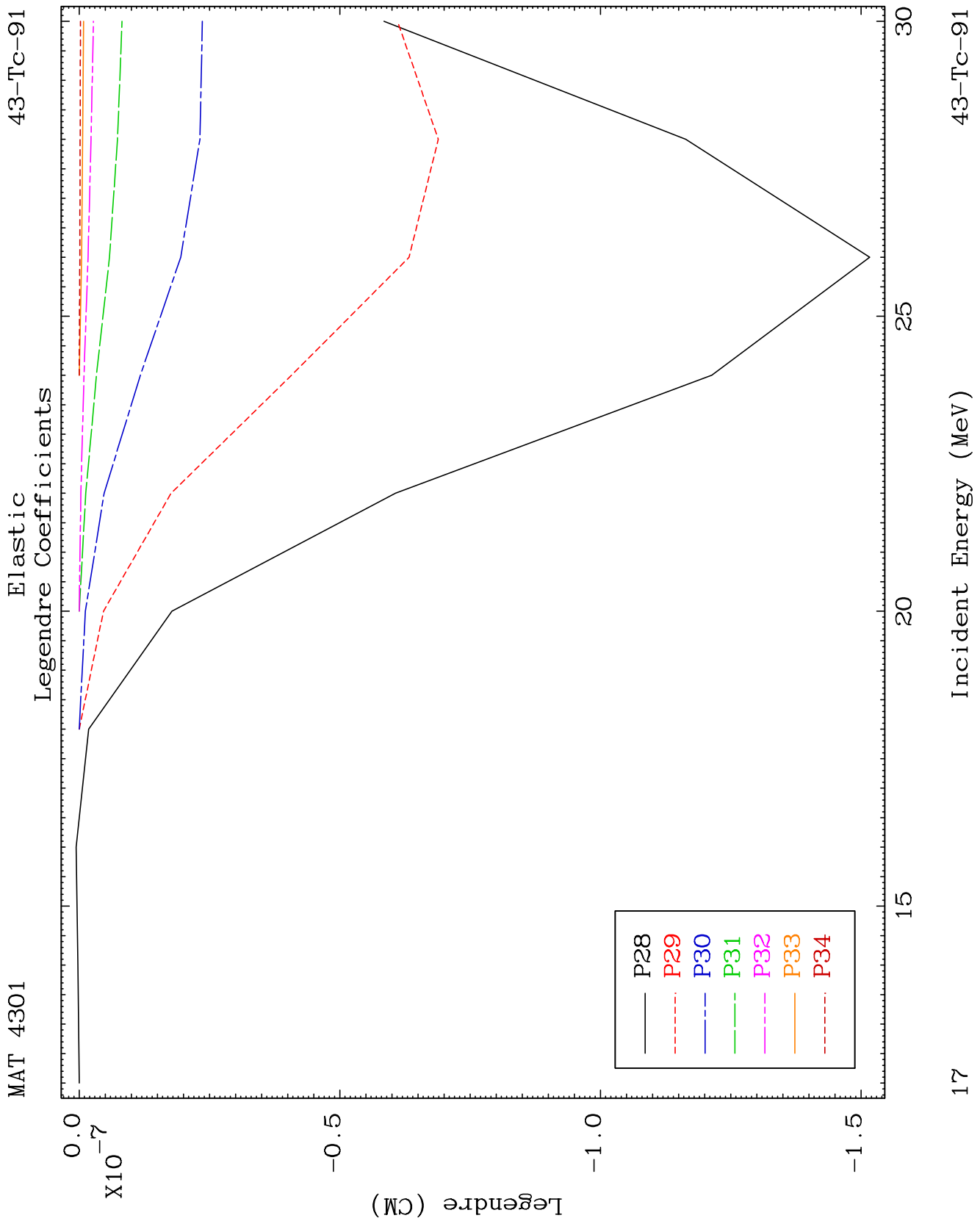
43-Tc-91



16

Incident Energy (MeV)

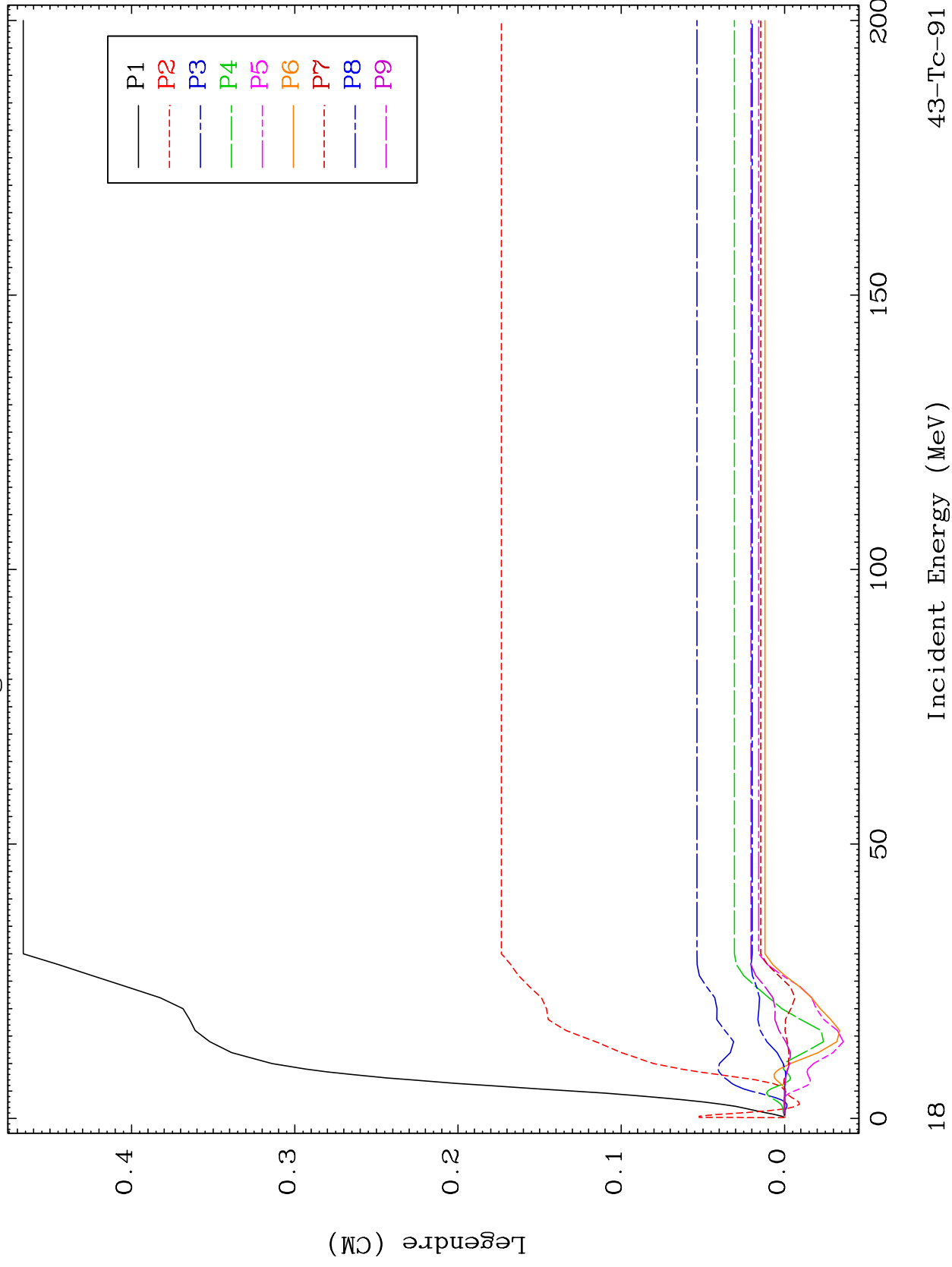
43-Tc-91



MAT 4301

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

43-Tc-91



18

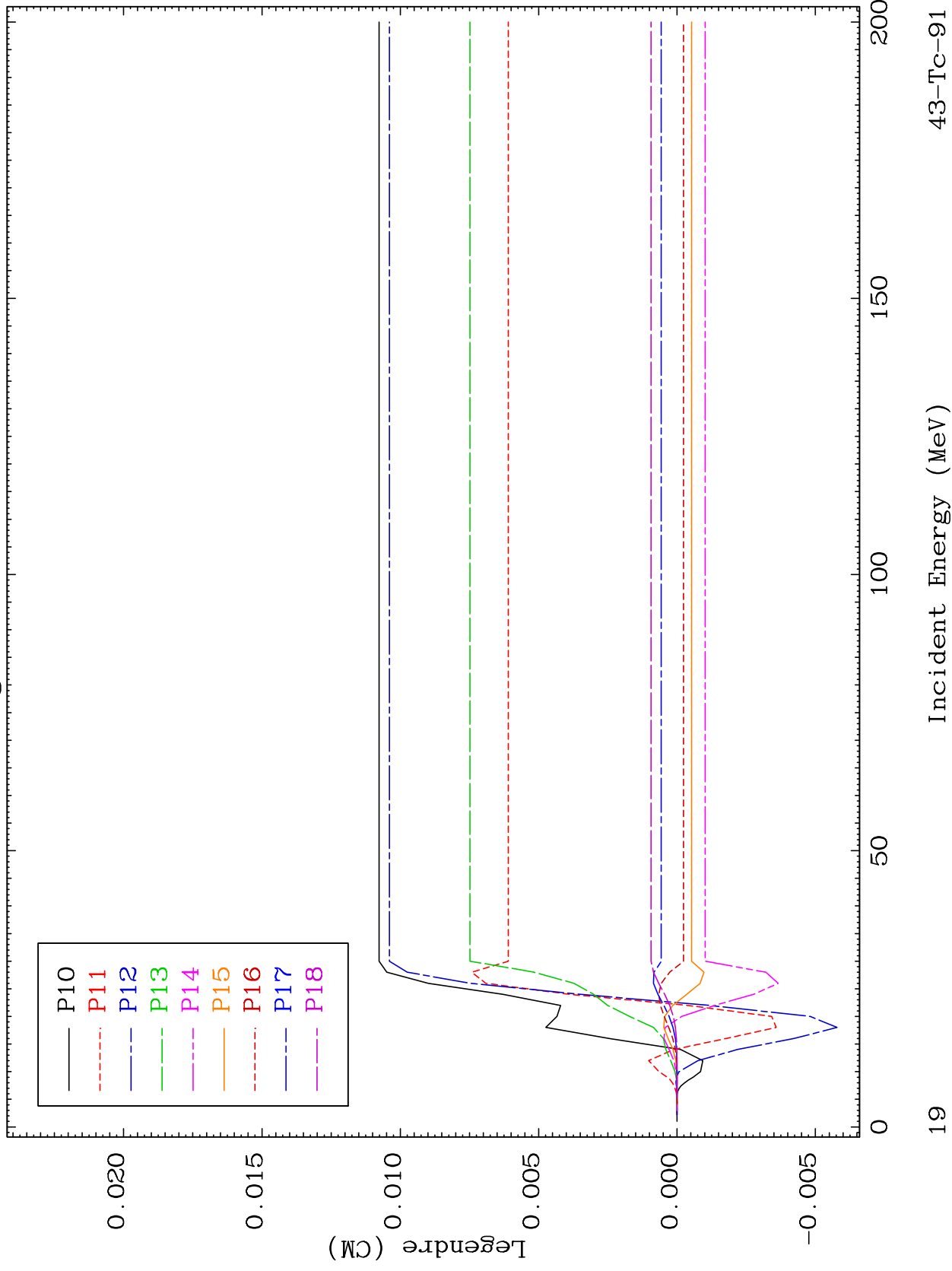
Incident Energy (MeV)

43-Tc-91

MAT 4301

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

43-Tc-91



19

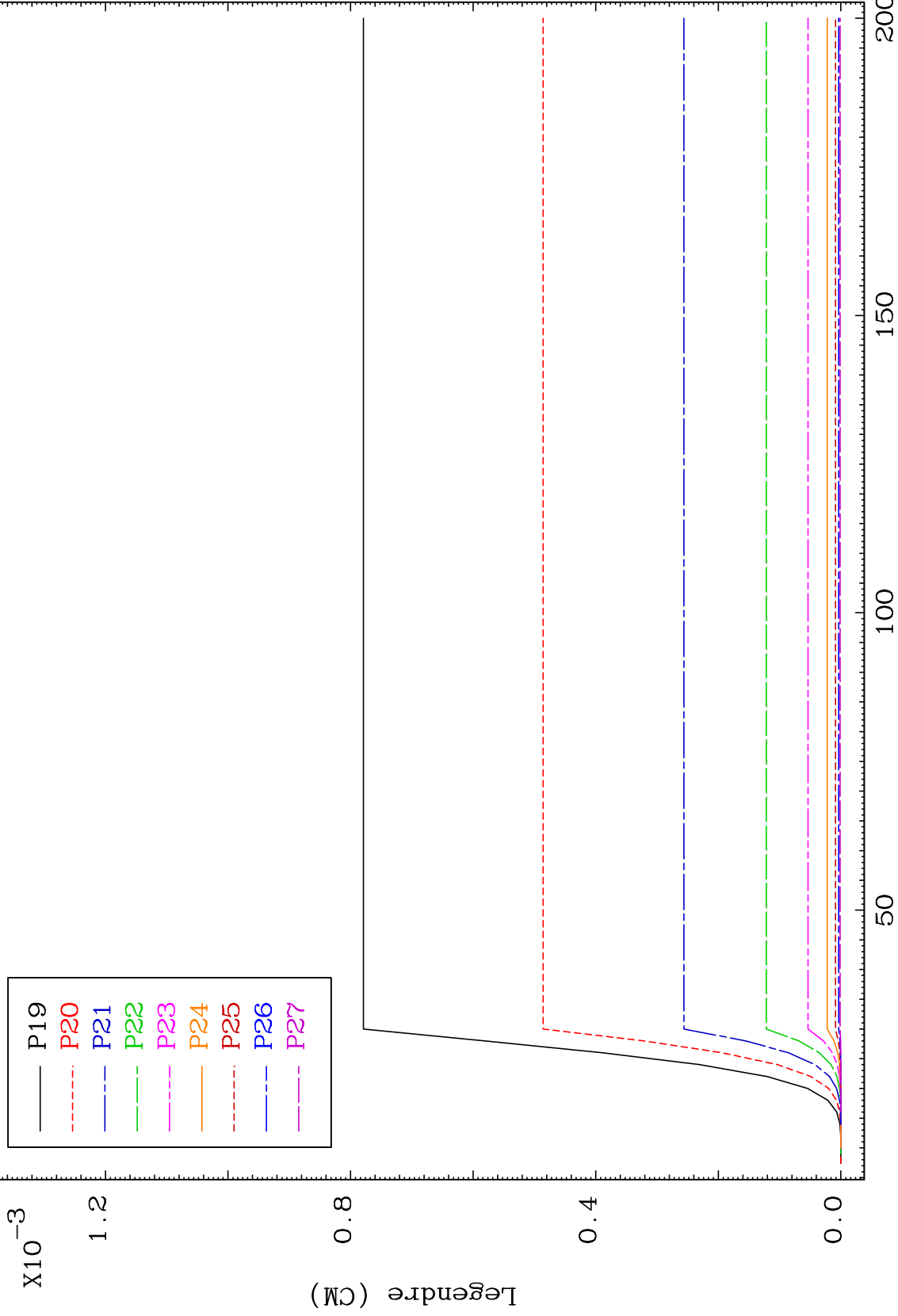
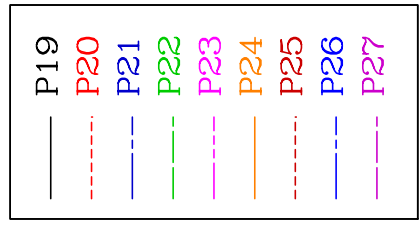
Incident Energy (MeV)

43-Tc-91

MAT 4301

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

43-Tc-91



20

Incident Energy (MeV)

50

100

150

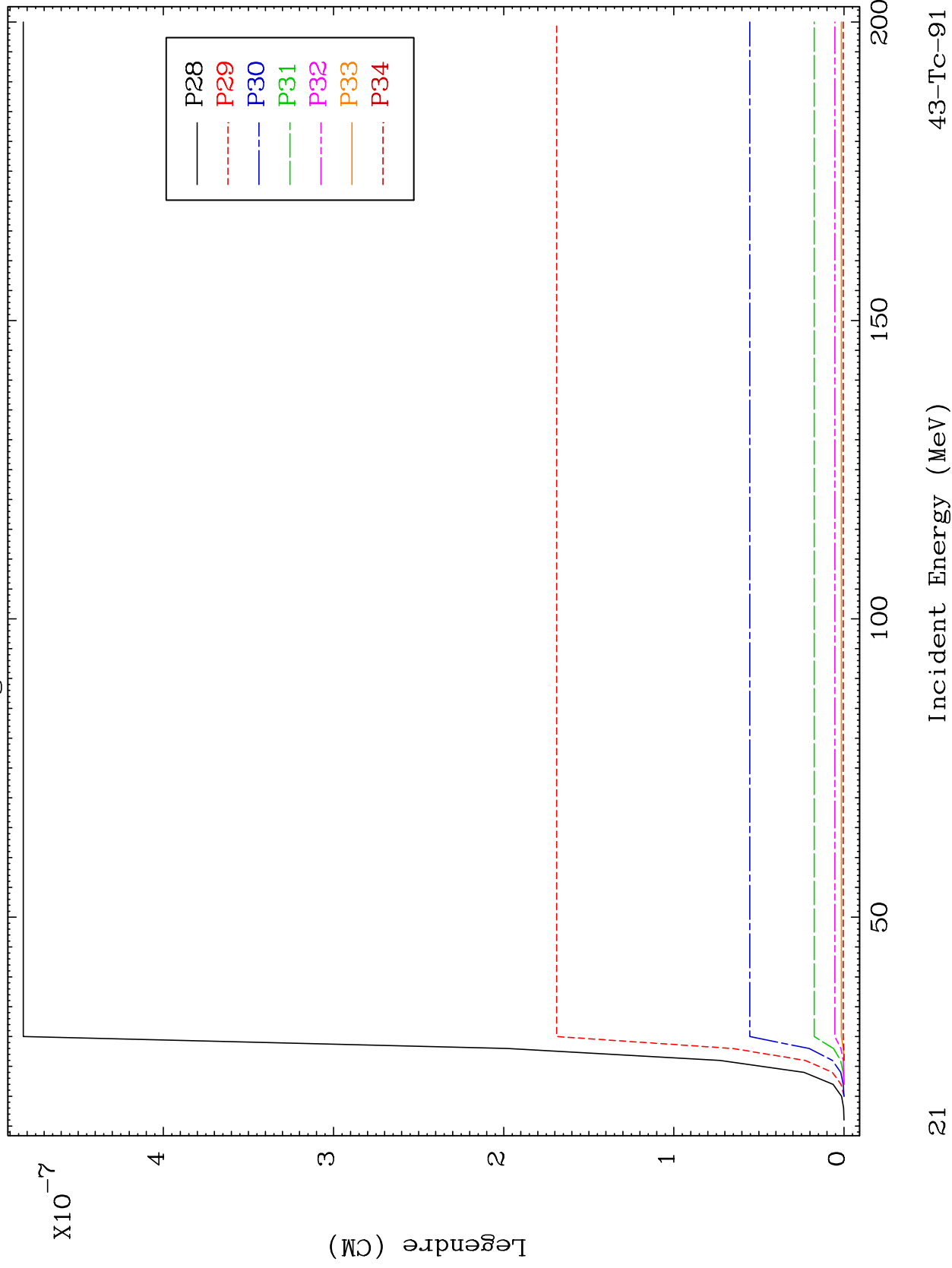
200

43-Tc-91

MAT 4301

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

43-Tc-91

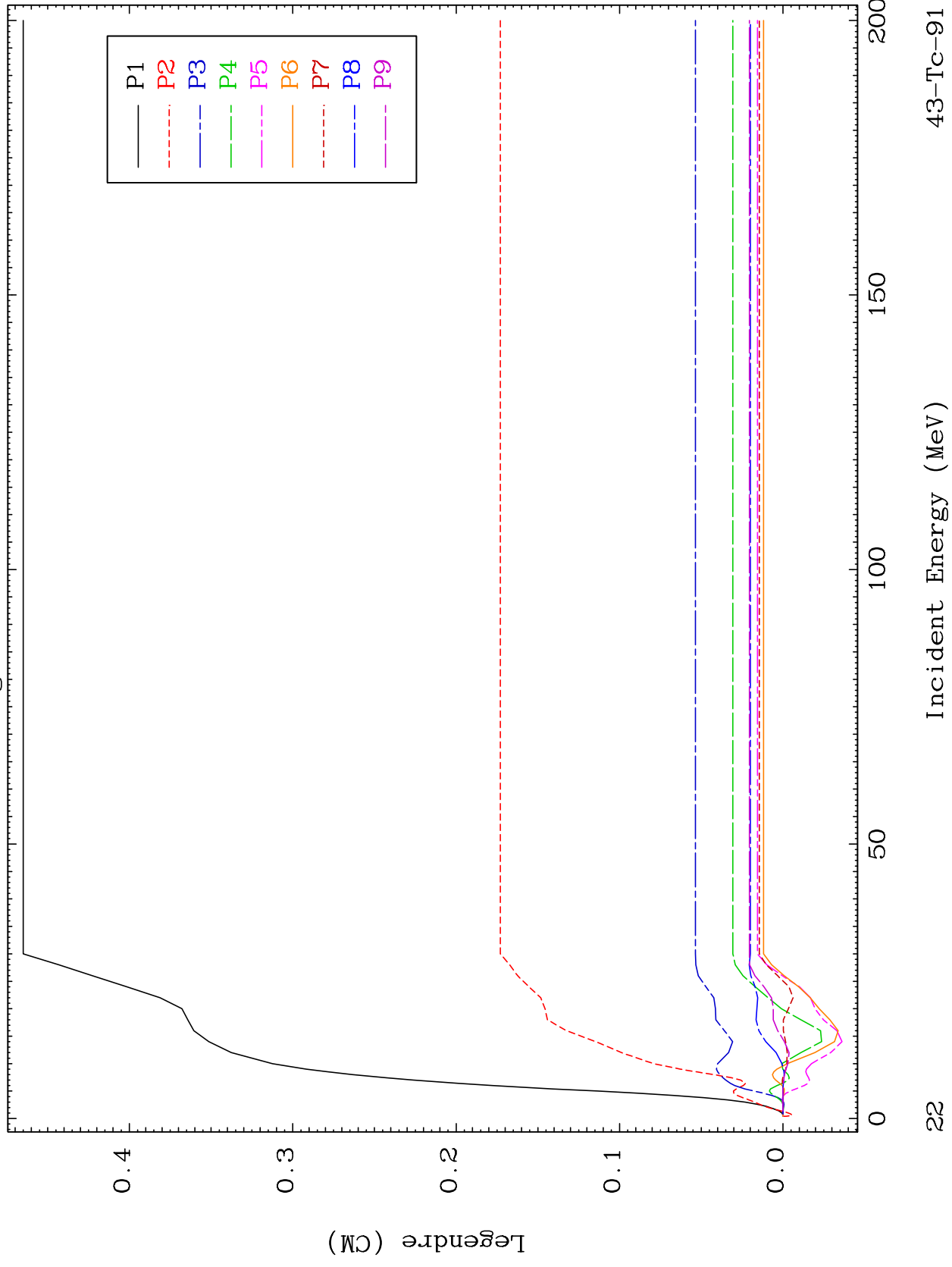


21

MAT 4301

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

43-Tc-91



43-Tc-91

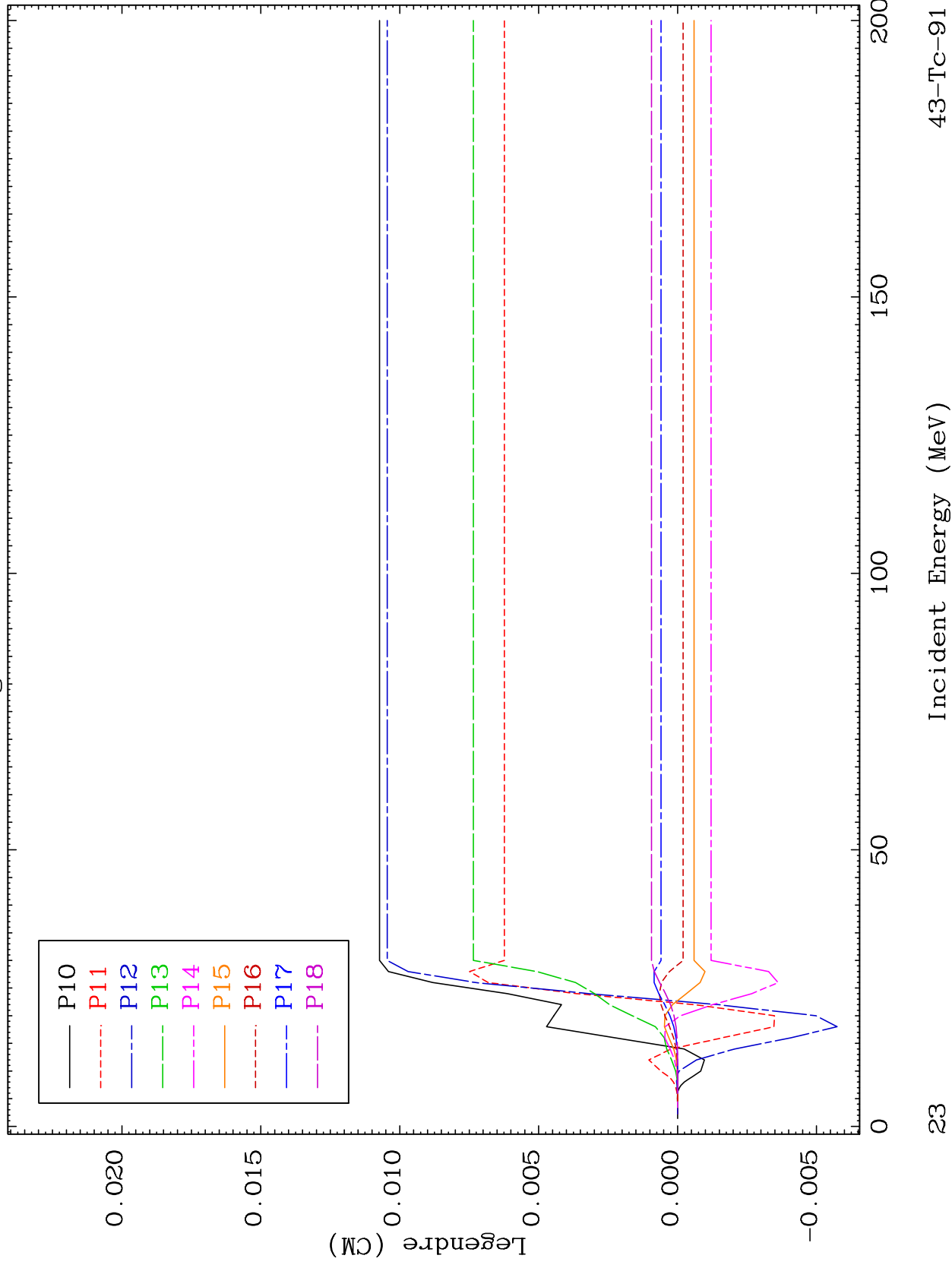
Incident Energy (MeV)

22

MAT 4301

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

43-Tc-91

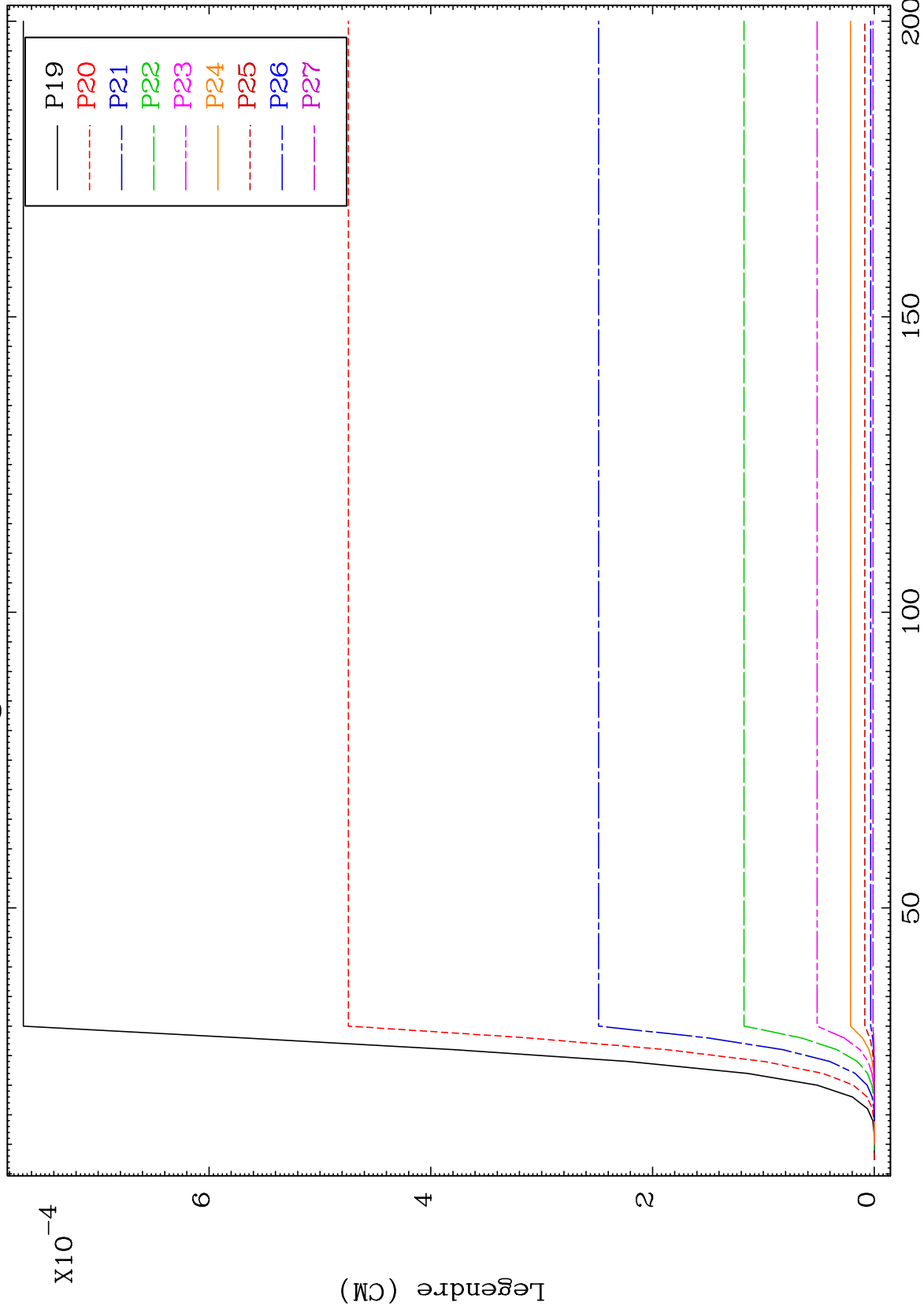




MAT 4301

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

43-Tc-91



24

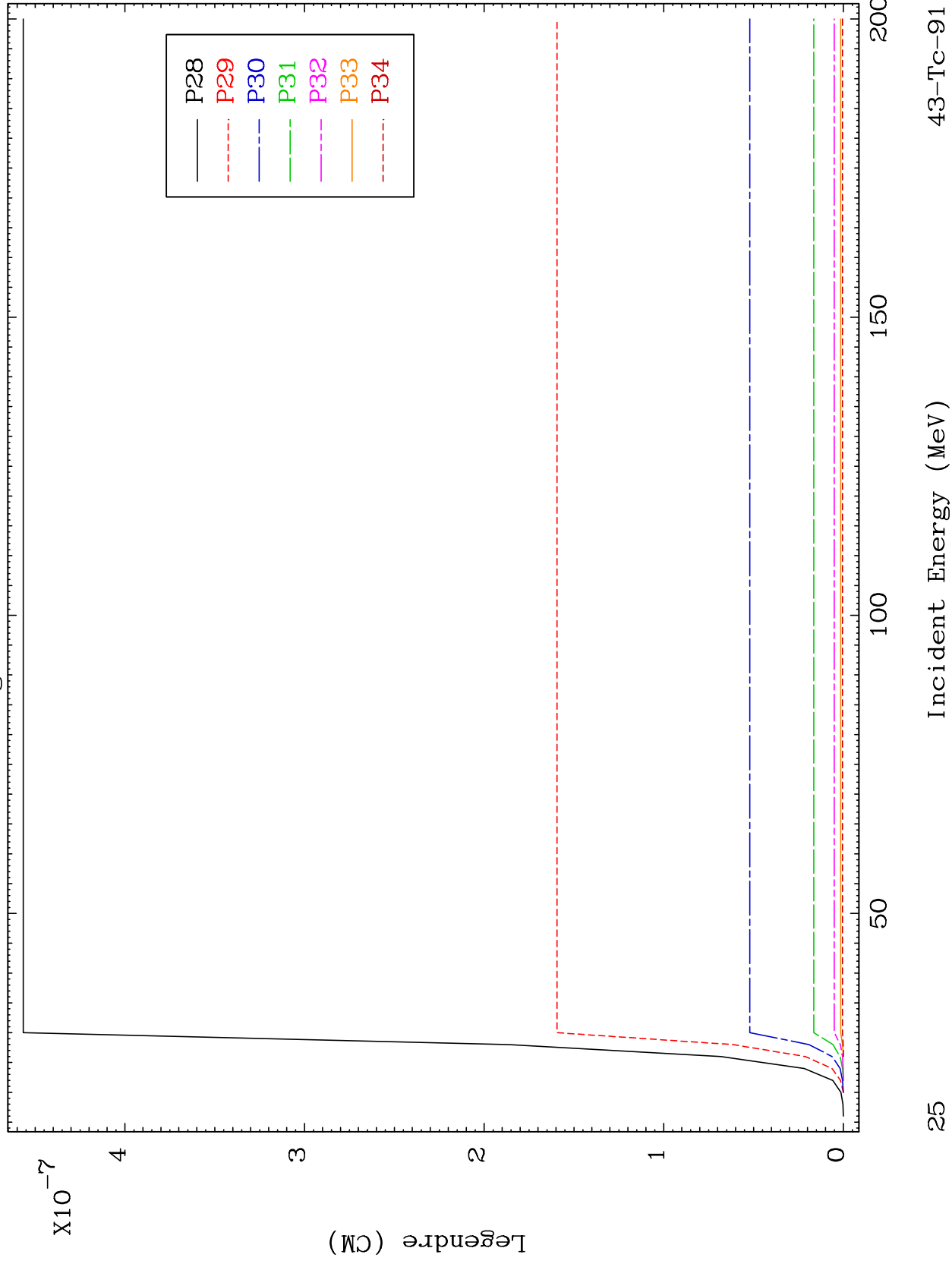
Incident Energy (MeV)

43-Tc-91

MAT 4301

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

43-Tc-91



25

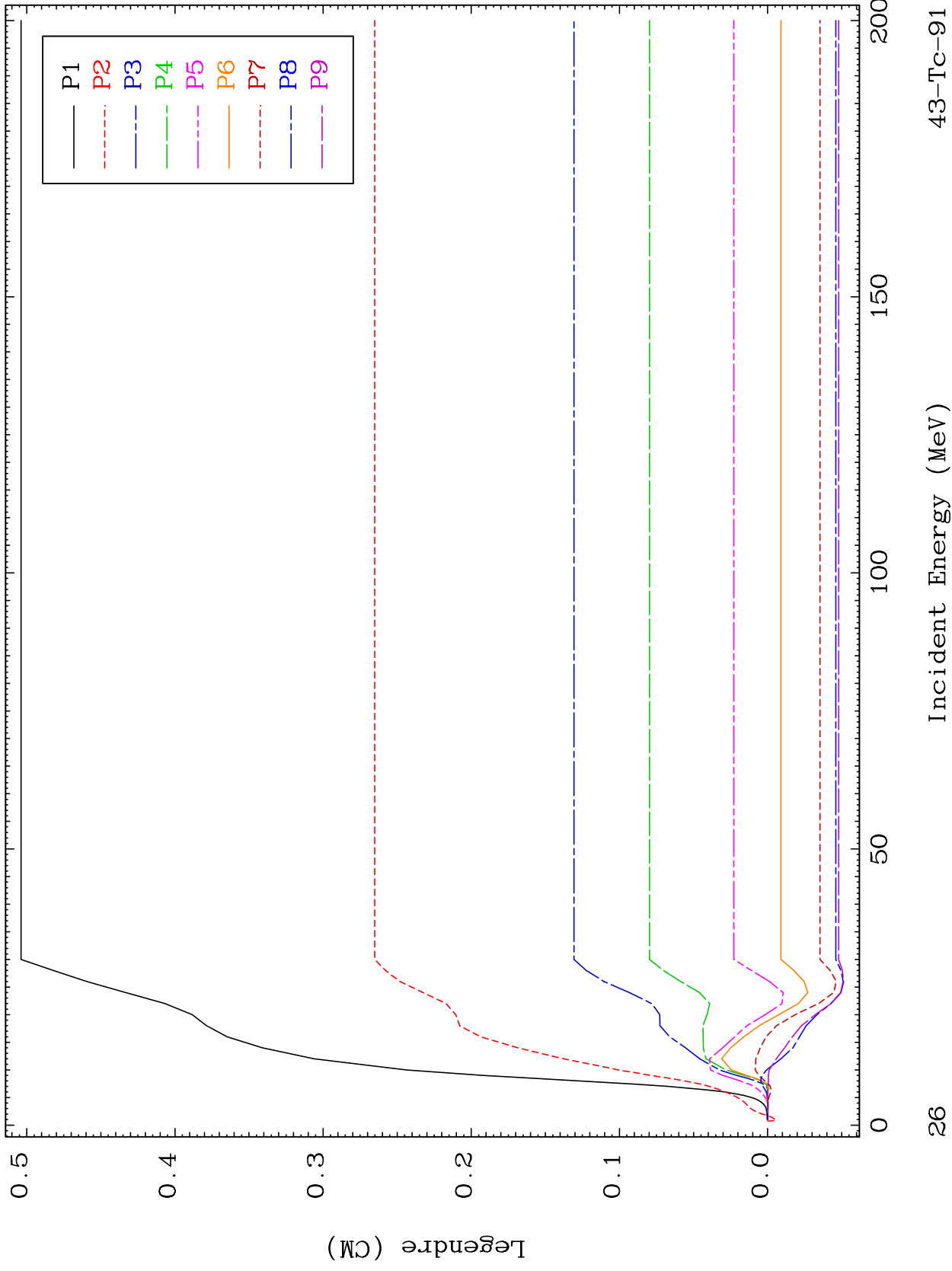
Incident Energy (MeV)

43-Tc-91

MAT 4301

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

43-Tc-91



26

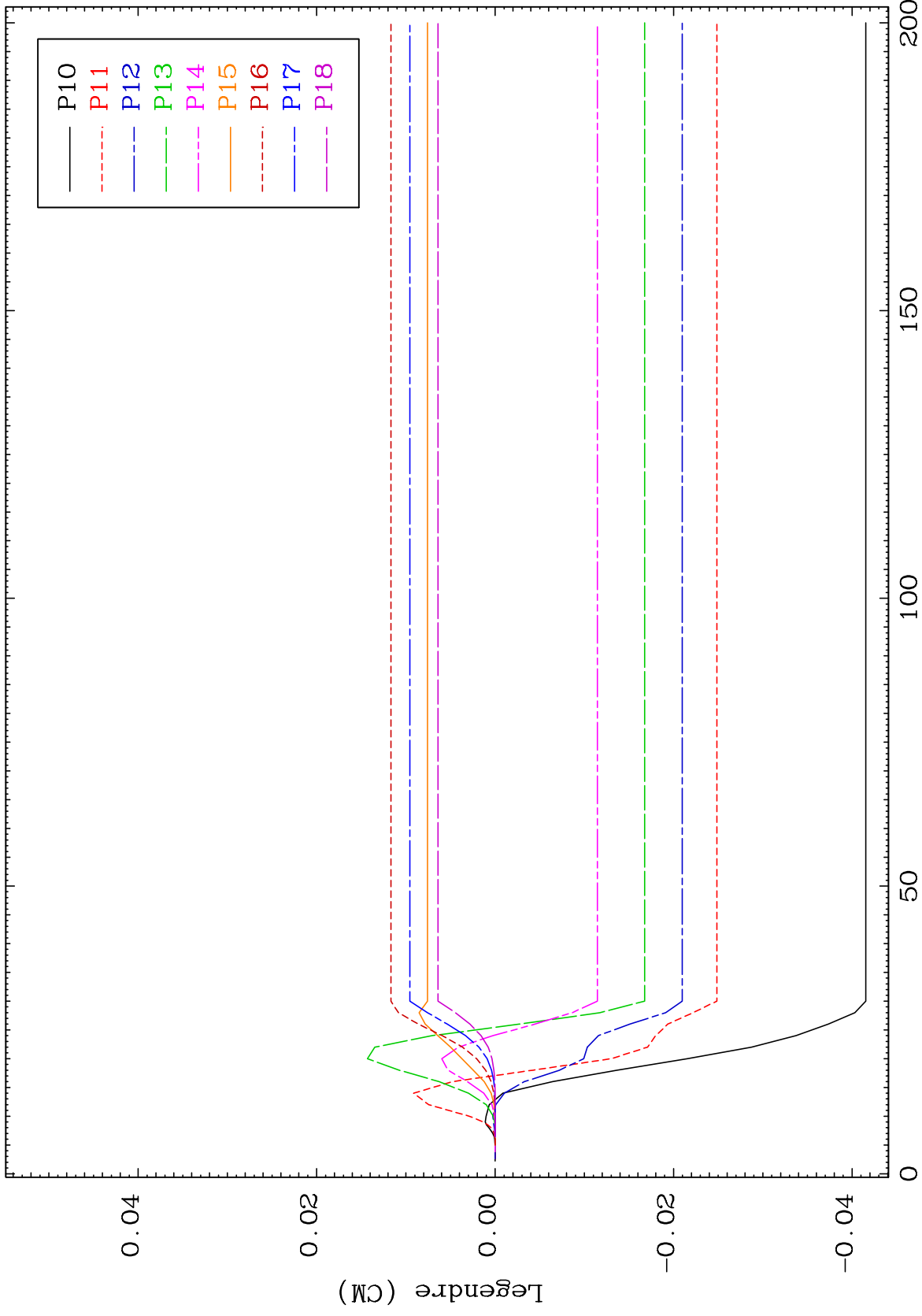
Incident Energy (MeV)

43-Tc-91

MAT 4301

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

43-Tc-91



27

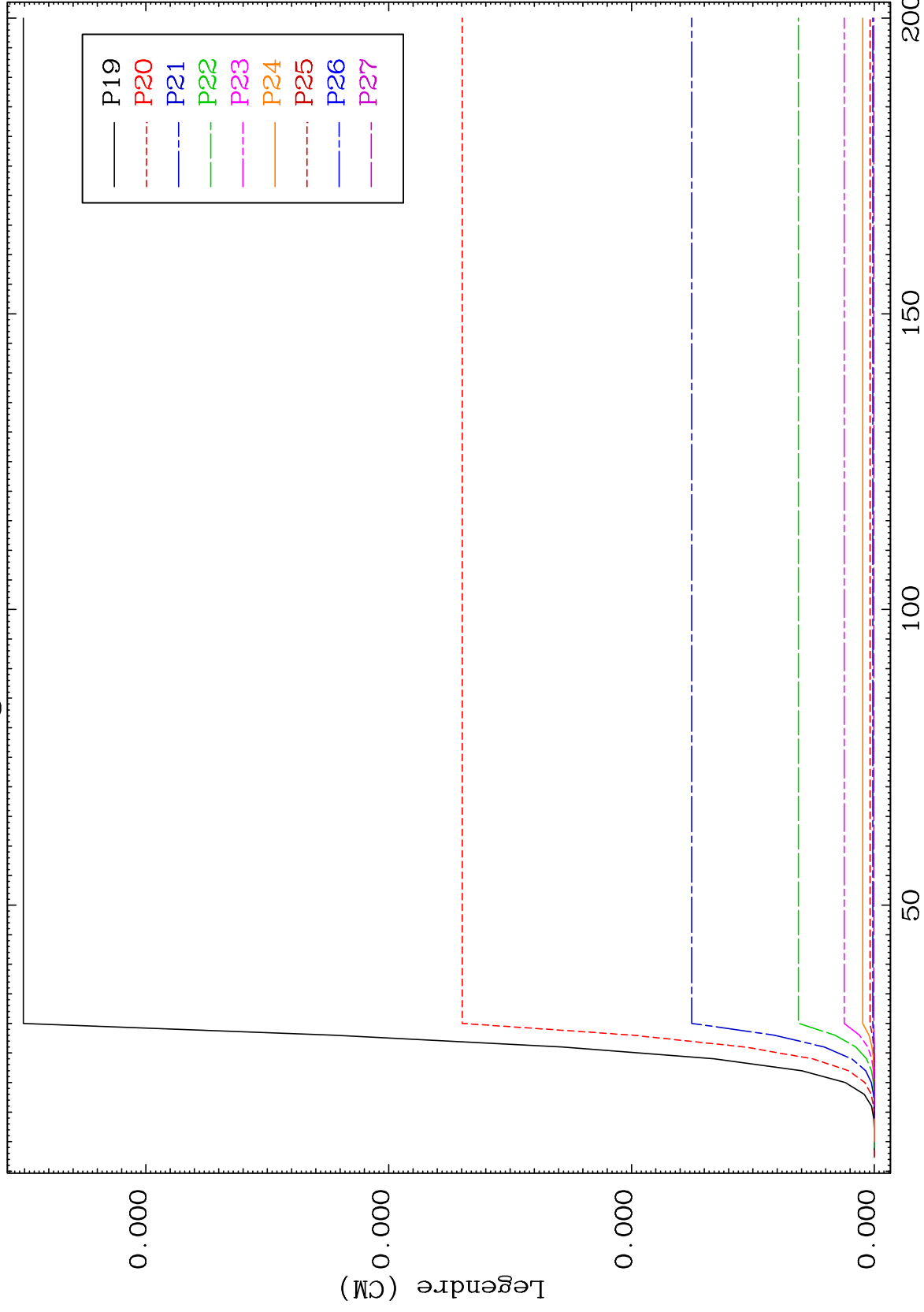
Incident Energy (MeV)

43-Tc-91

MAT 4301

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

43-Tc-91



28

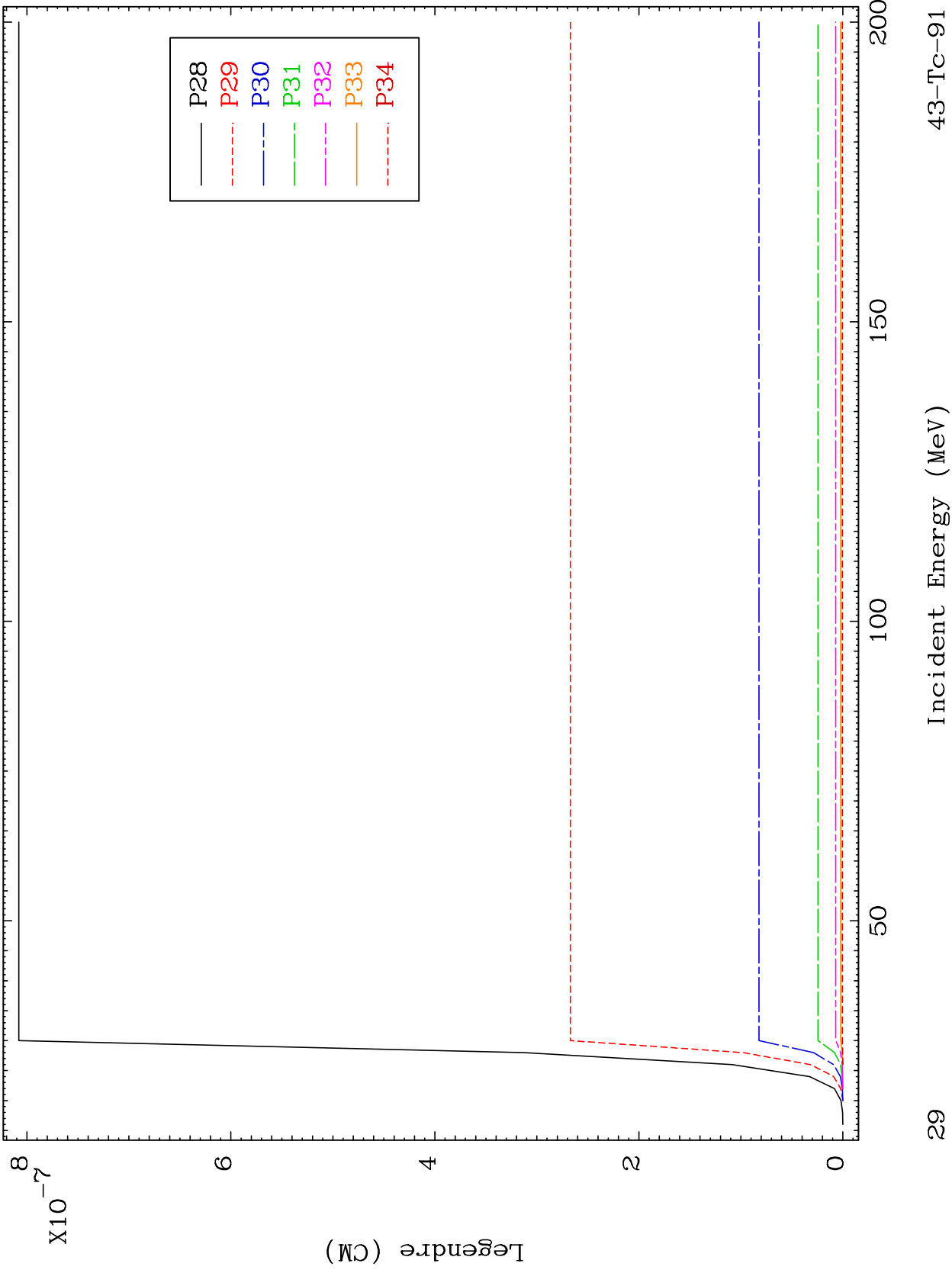
Incident Energy (MeV)

43-Tc-91

MAT 4301

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

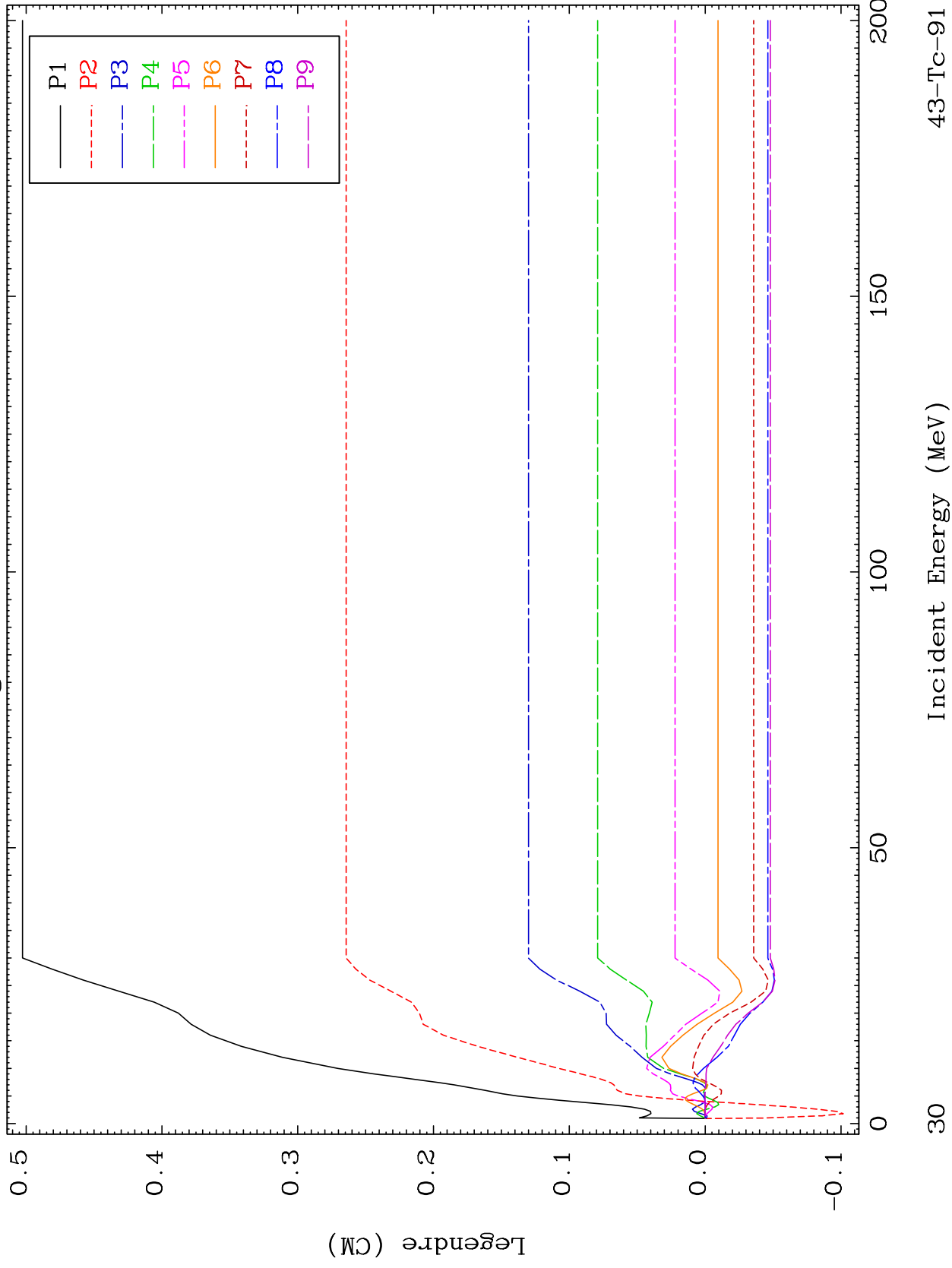
43-Tc-91



MAT 4301

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

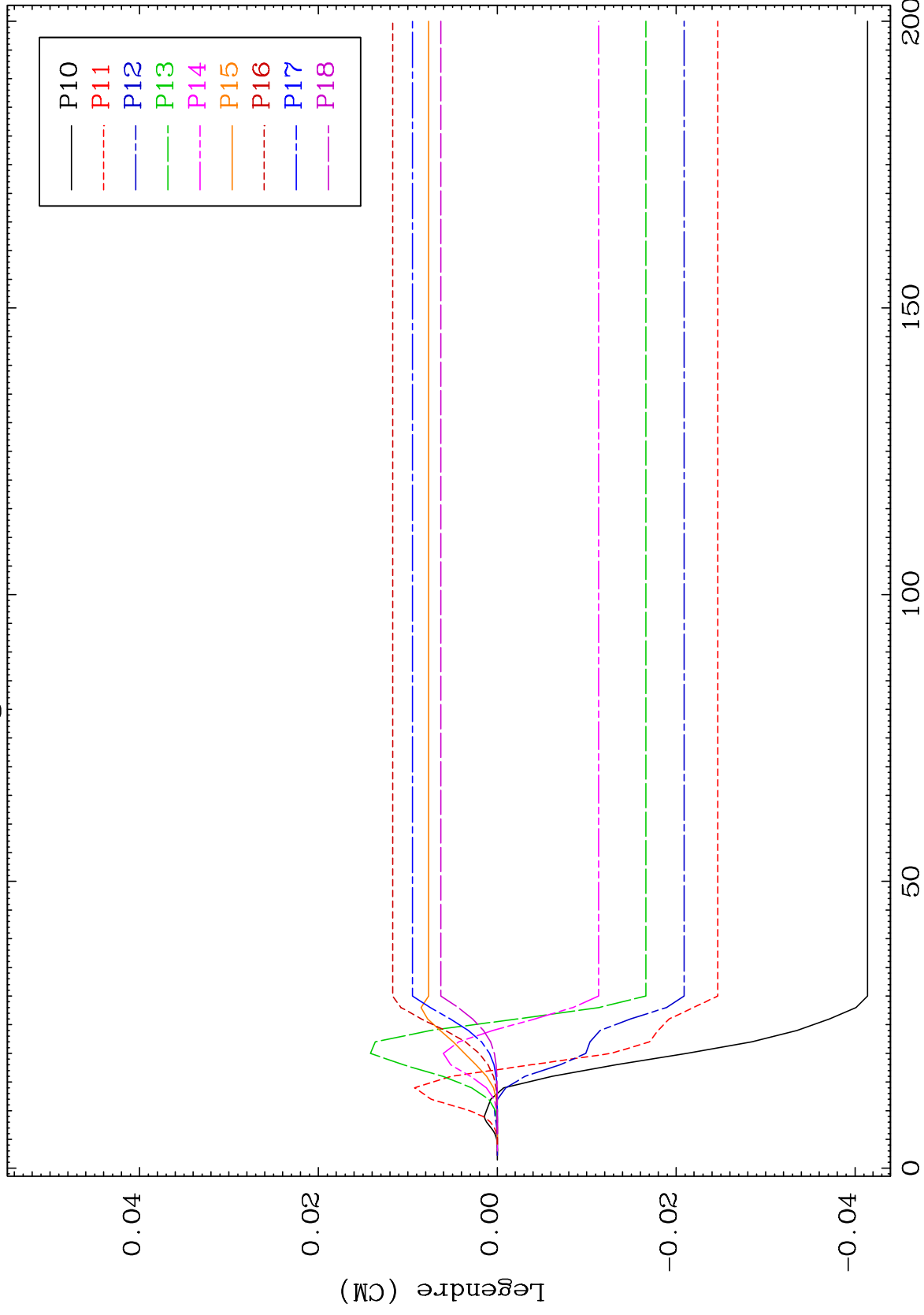
43-Tc-91



MAT 4301

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

43-Tc-91



31

Incident Energy (MeV)

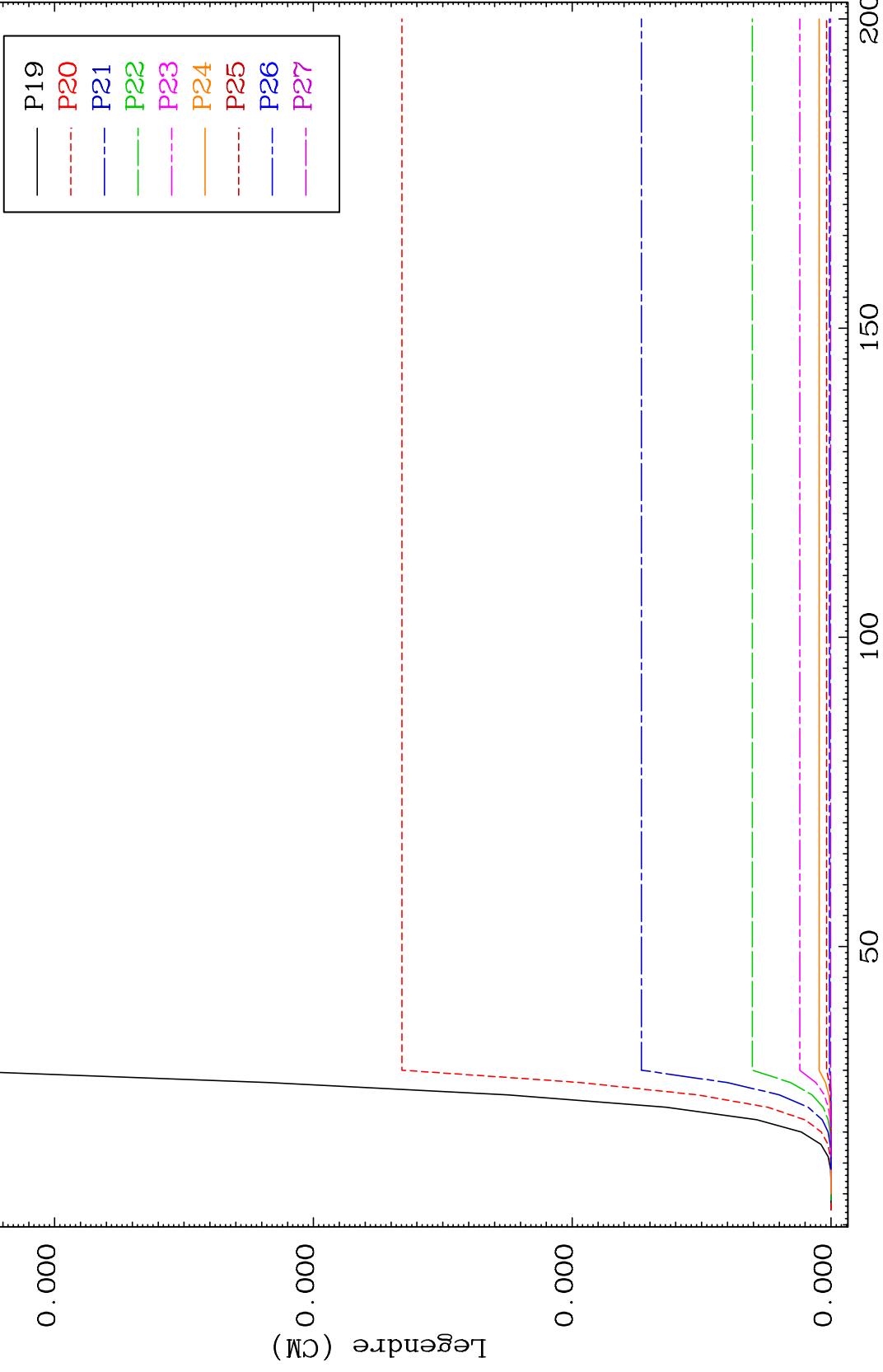
43-Tc-91



MAT 4301

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

43-Tc-91



32

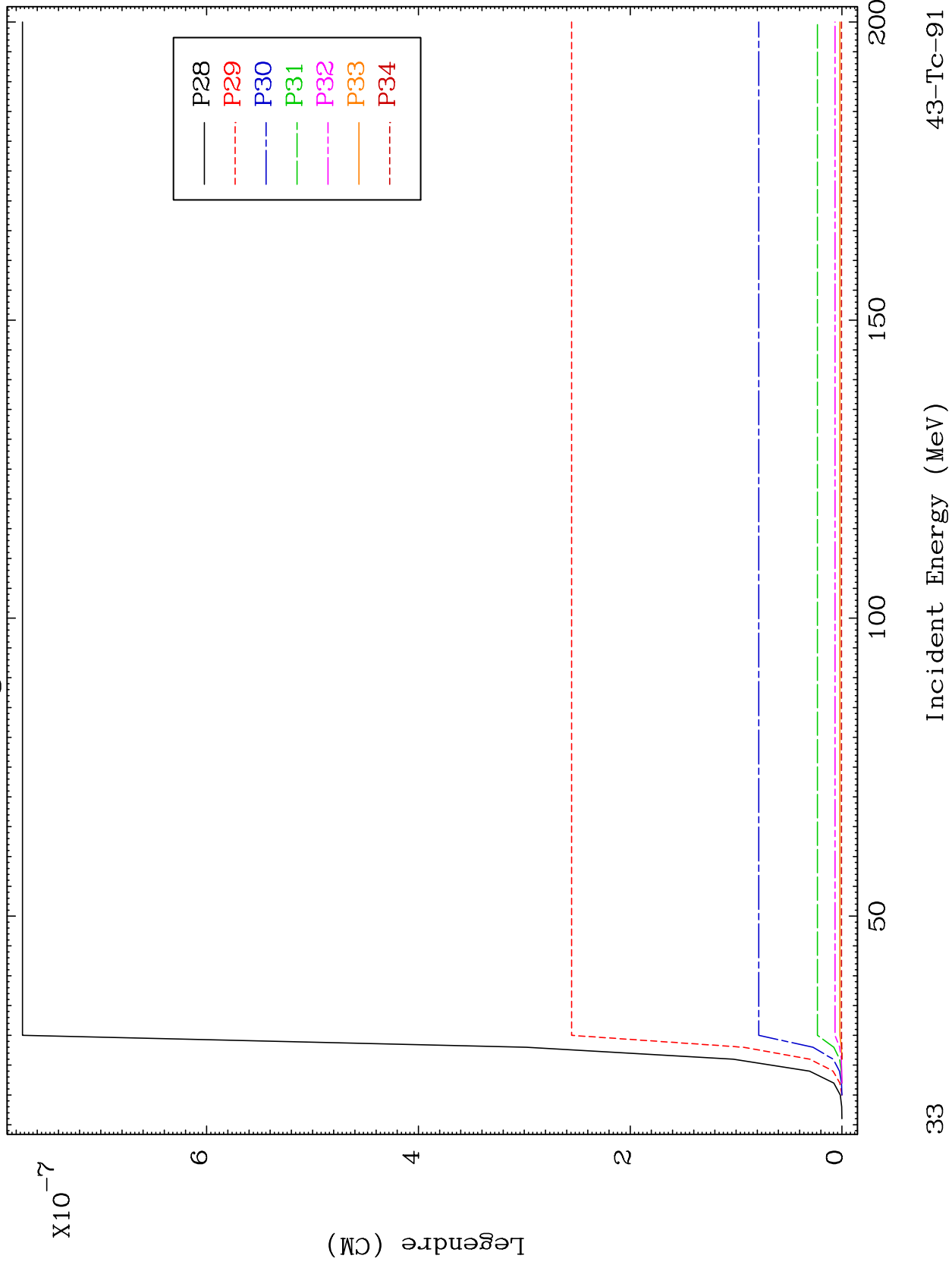
Incident Energy (MeV)

43-Tc-91

MAT 4301

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

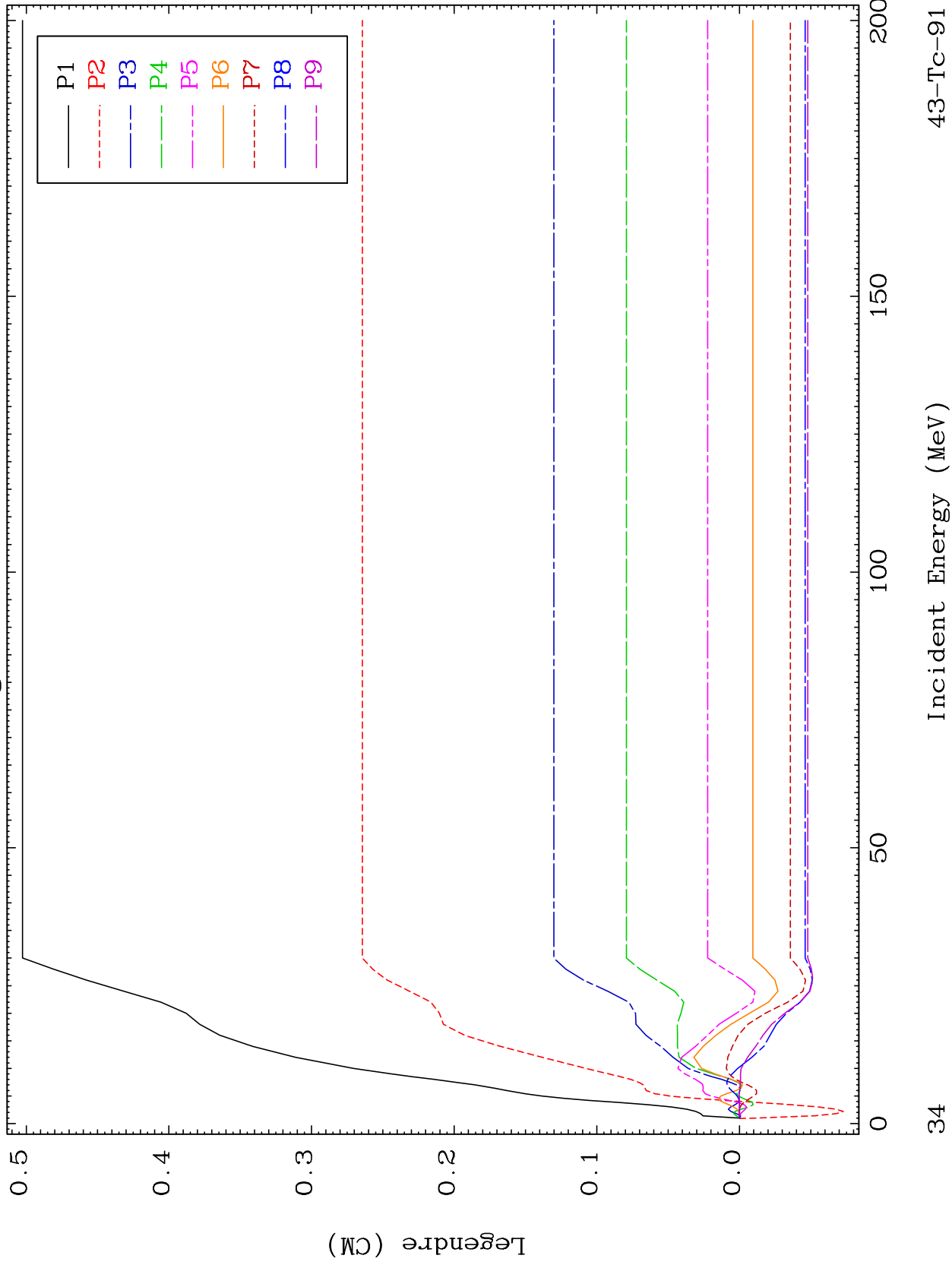
43-Tc-91



MAT 4301

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

43-Tc-91



34

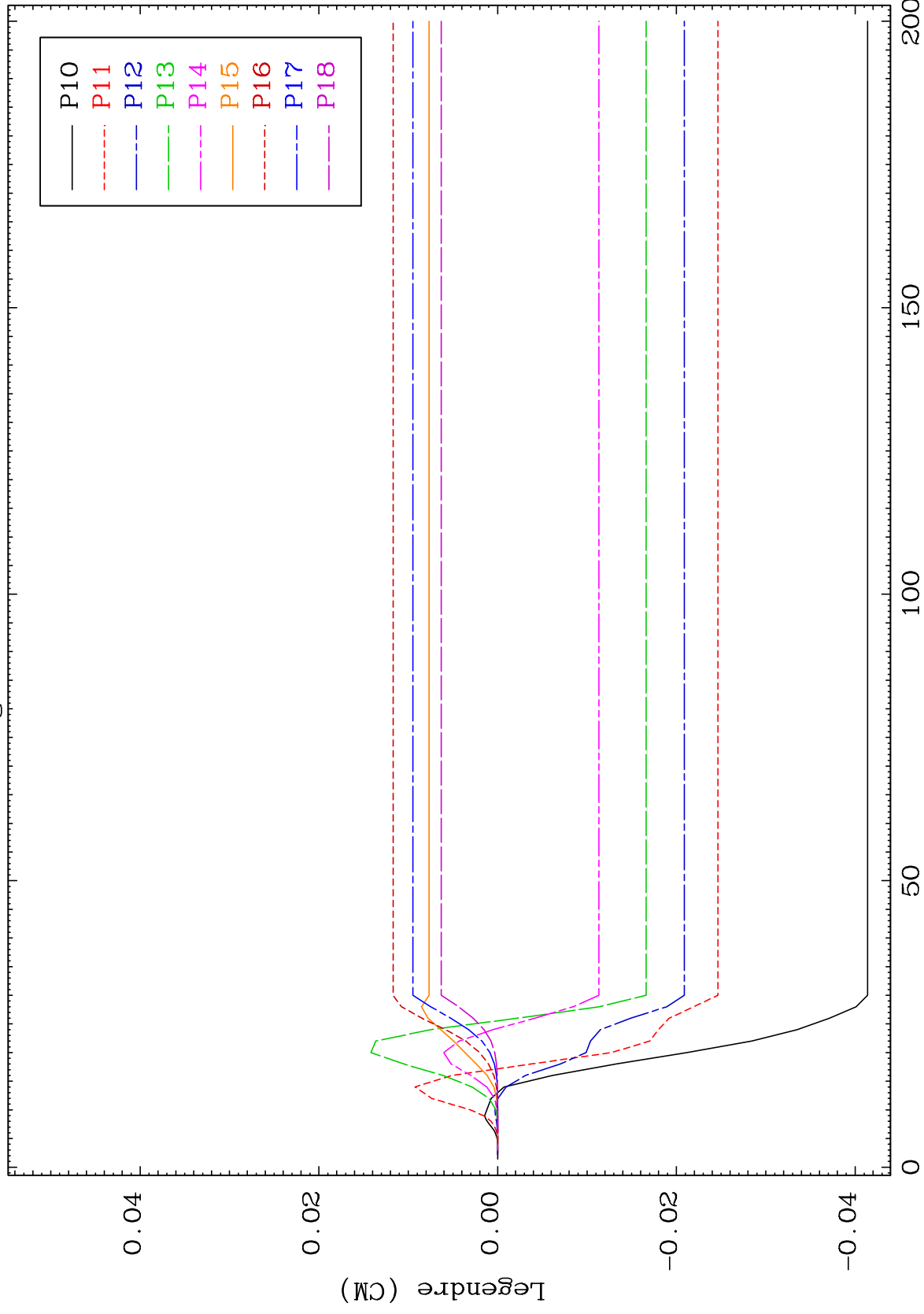
Incident Energy (MeV)

43-Tc-91

MAT 4301

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

43-Tc-91



35

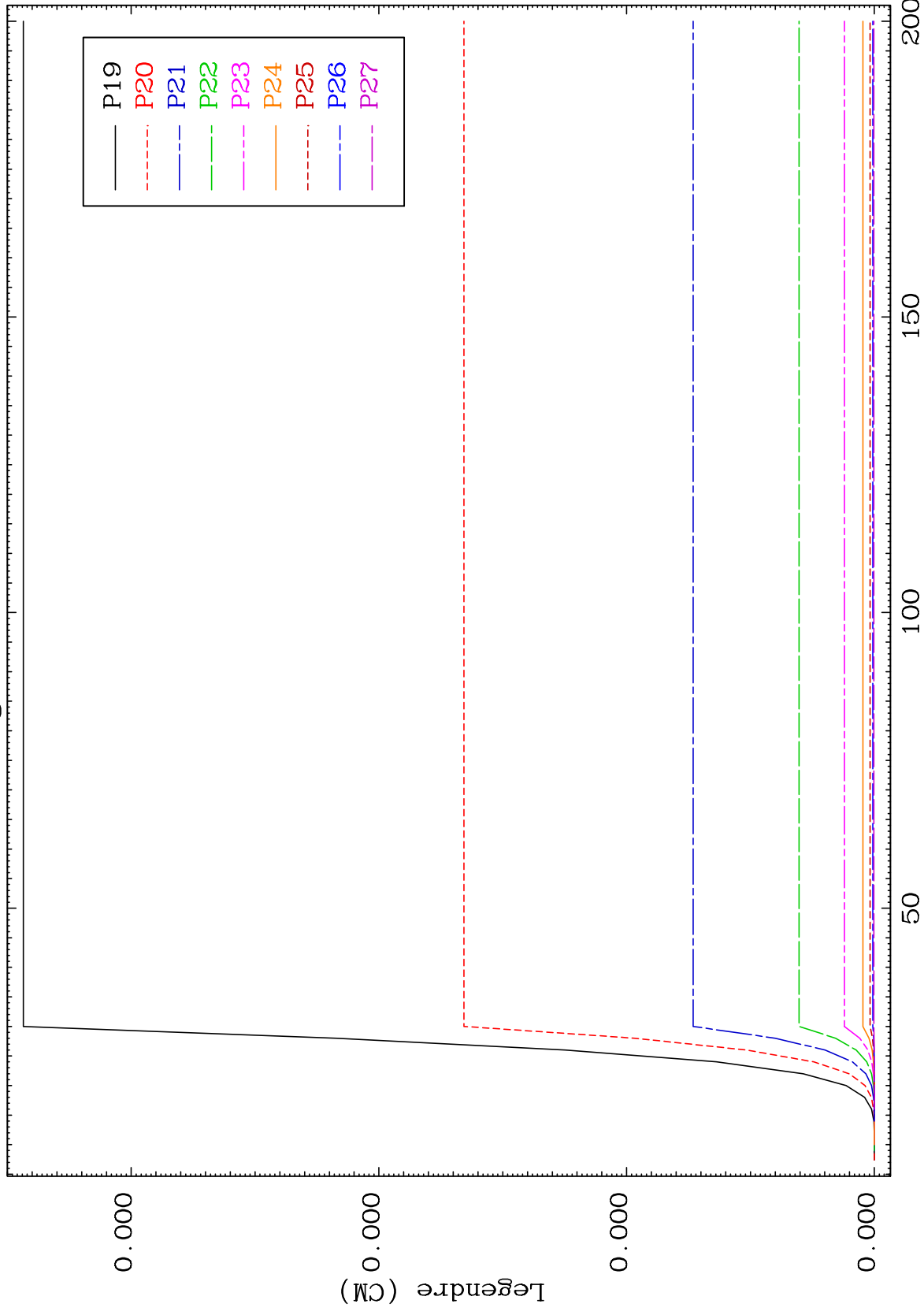
Incident Energy (MeV)

43-Tc-91

MAT 4301

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

43-Tc-91



36

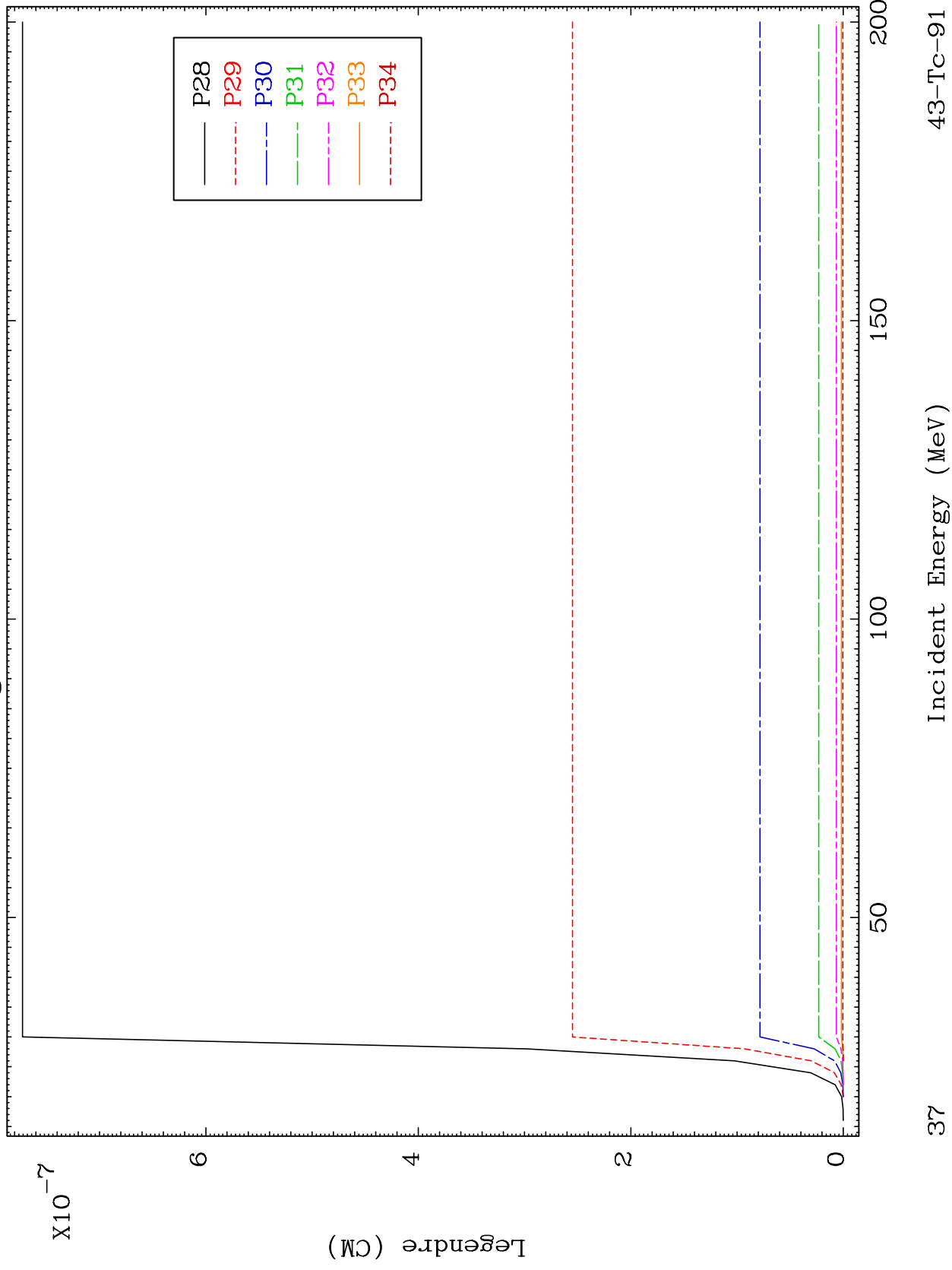
Incident Energy (MeV)

43-Tc-91

MAT 4301

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

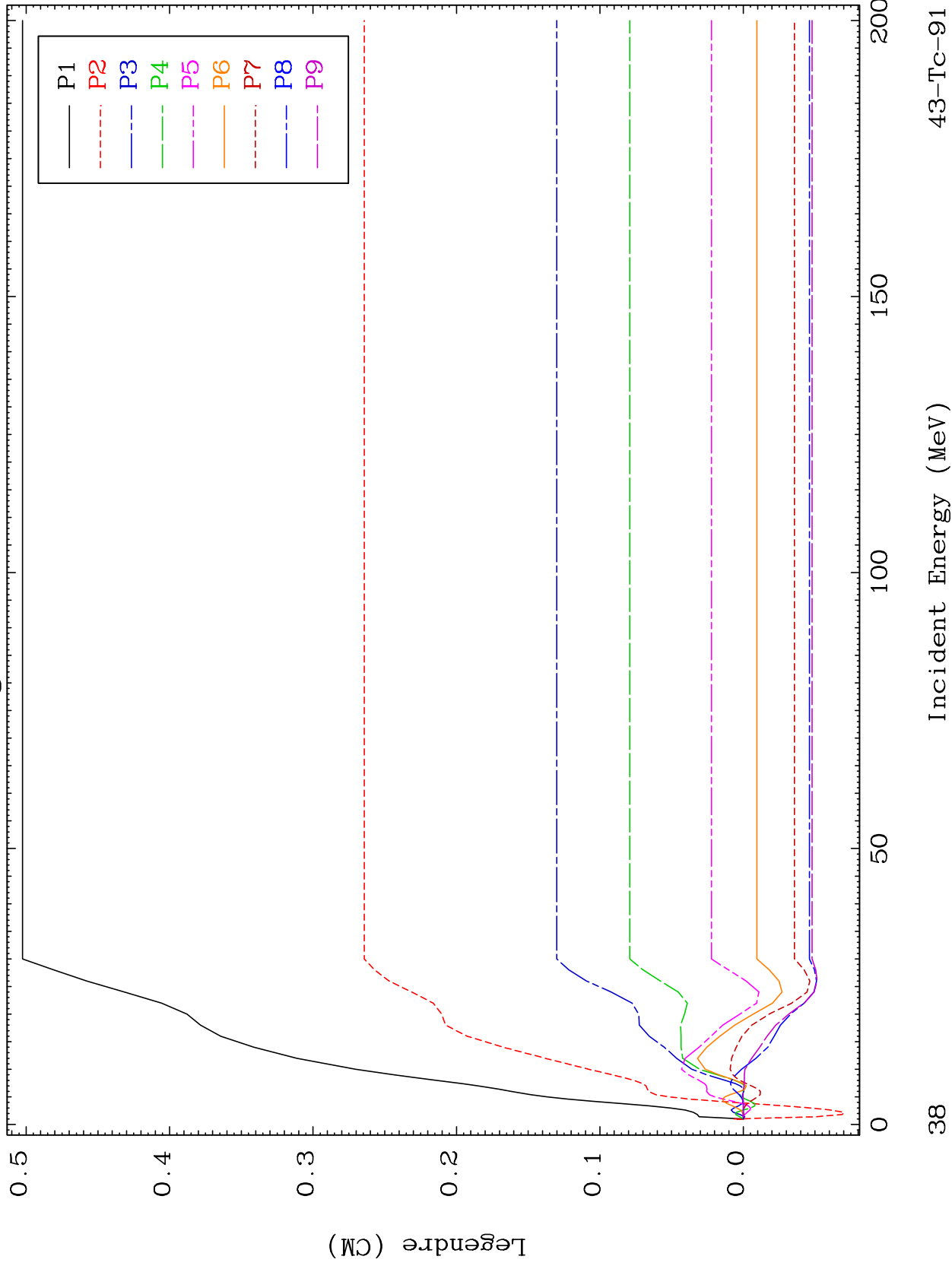
43-Tc-91



MAT 4301

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

43-Tc-91



43-Tc-91

Incident Energy (MeV)

38

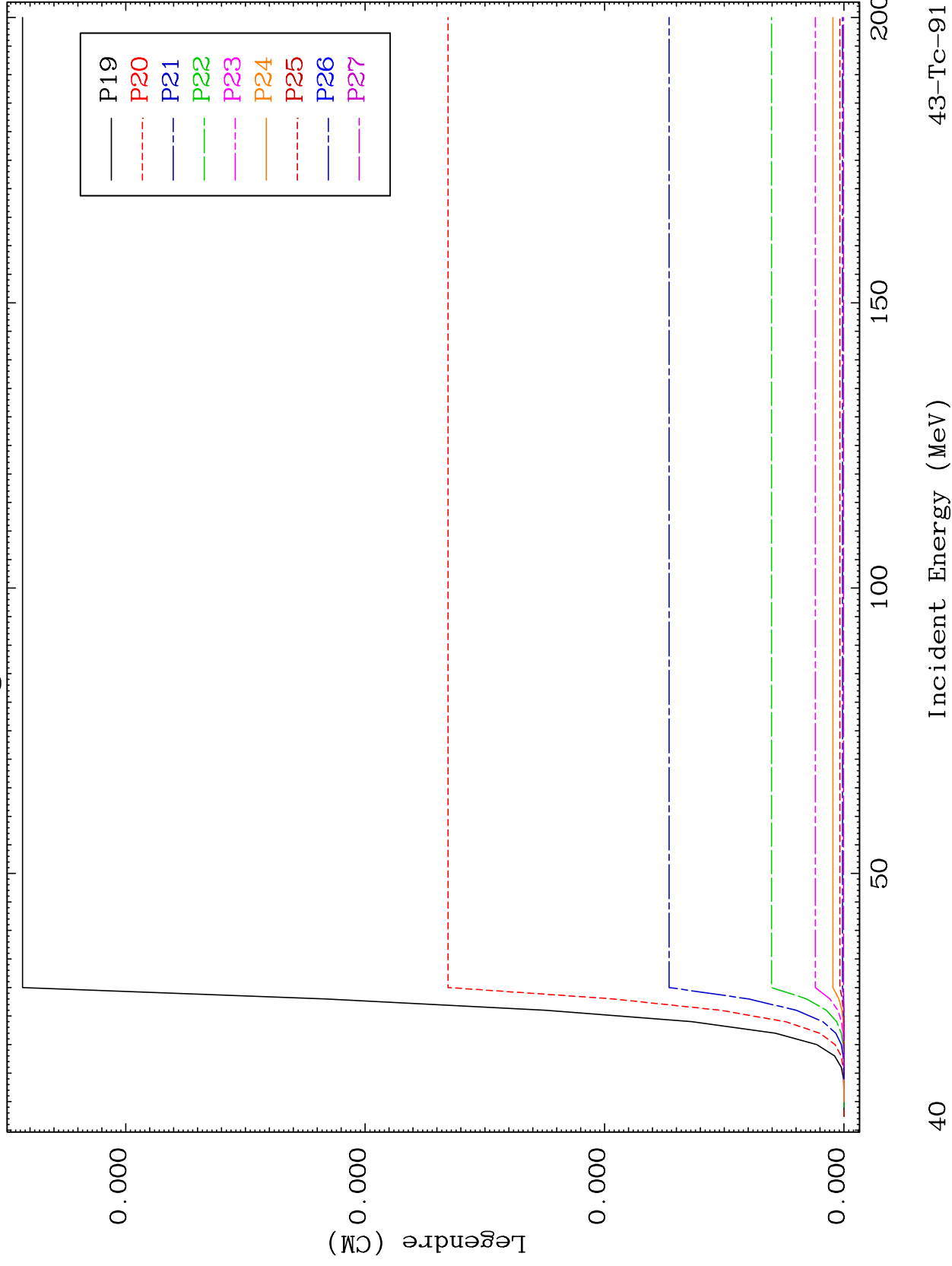




MAT 4301

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

43-Tc-91



40

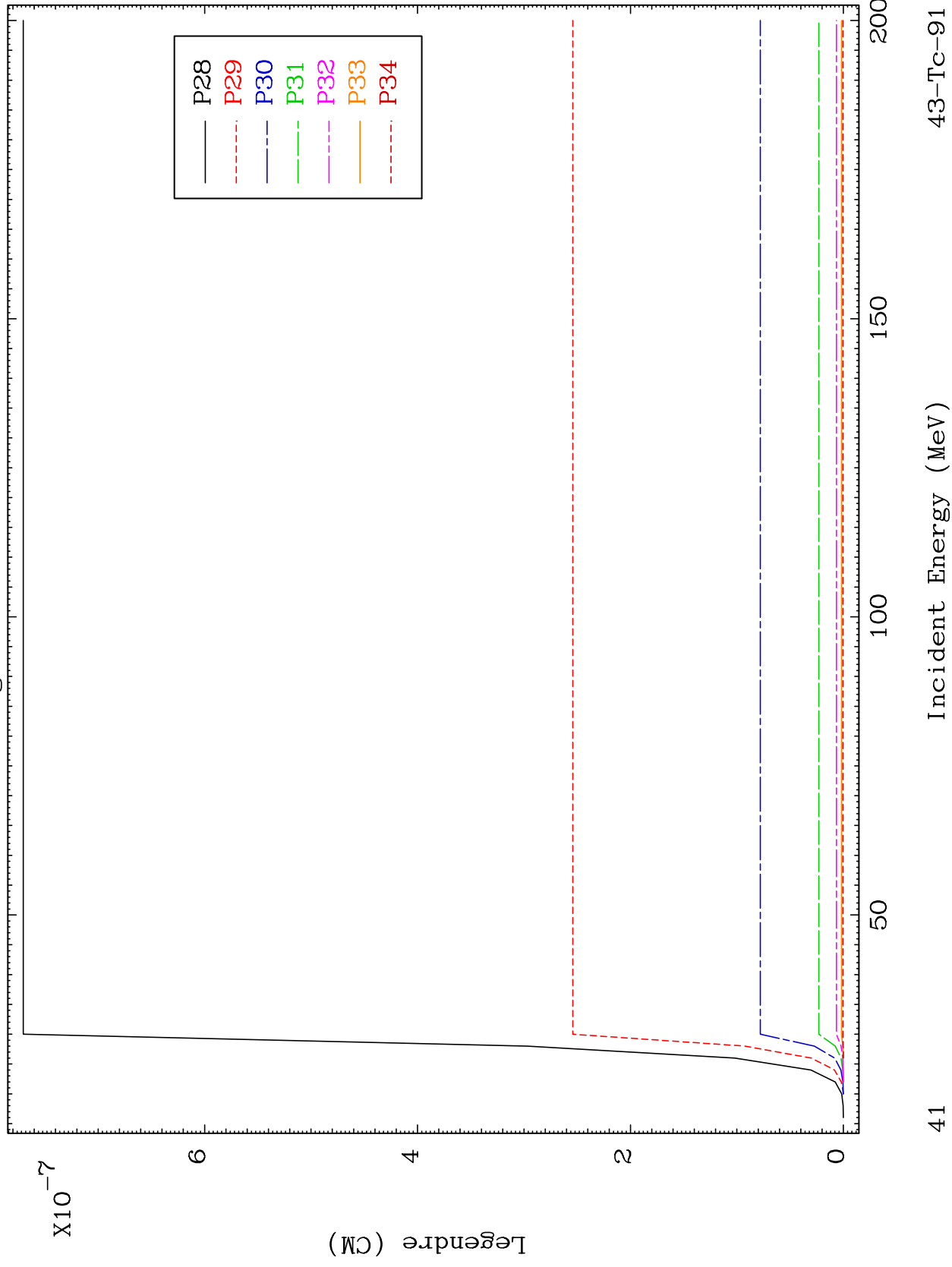
Incident Energy (MeV)

43-Tc-91

MAT 4301

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

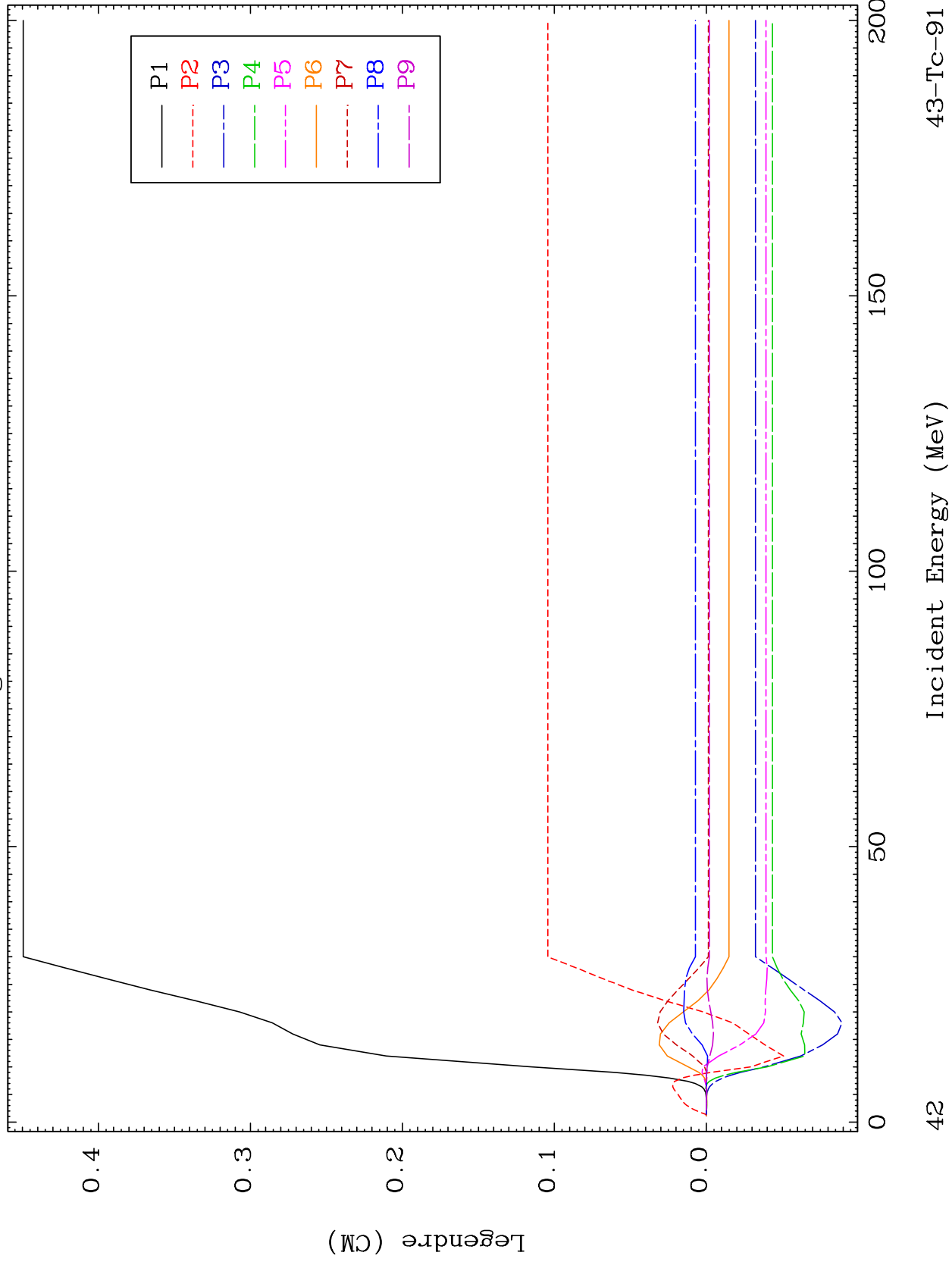
43-Tc-91



MAT 4301

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

43-Tc-91



43-Tc-91

Incident Energy (MeV)

42



MAT 4301

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

43-Tc-91

$\times 10^{-4}$

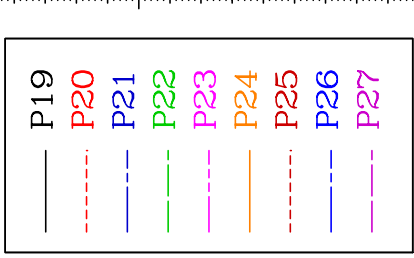
0.5

Legendre (CM)

0.0

-0.5

-1.0



200

150

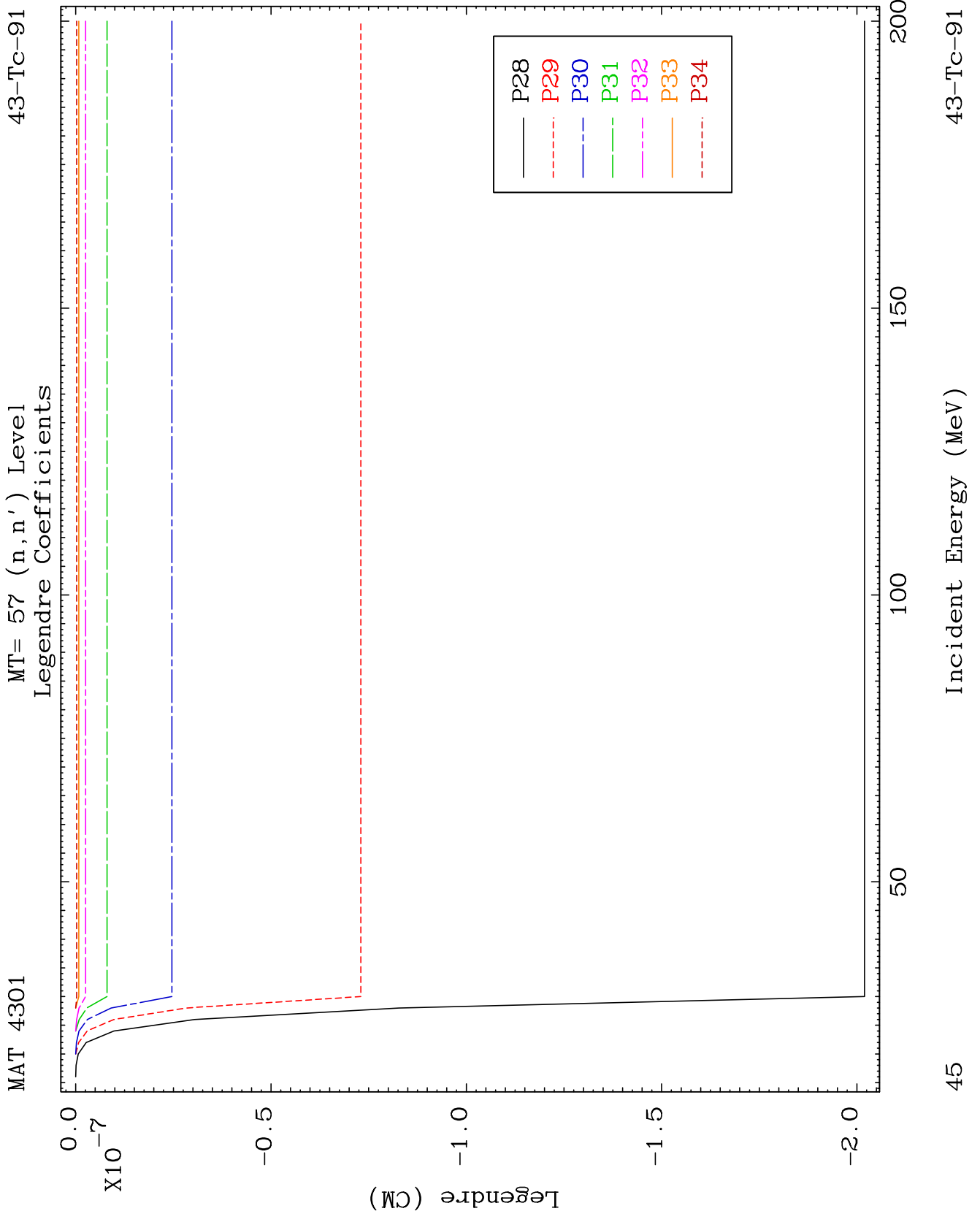
100

50

44

Incident Energy (MeV)

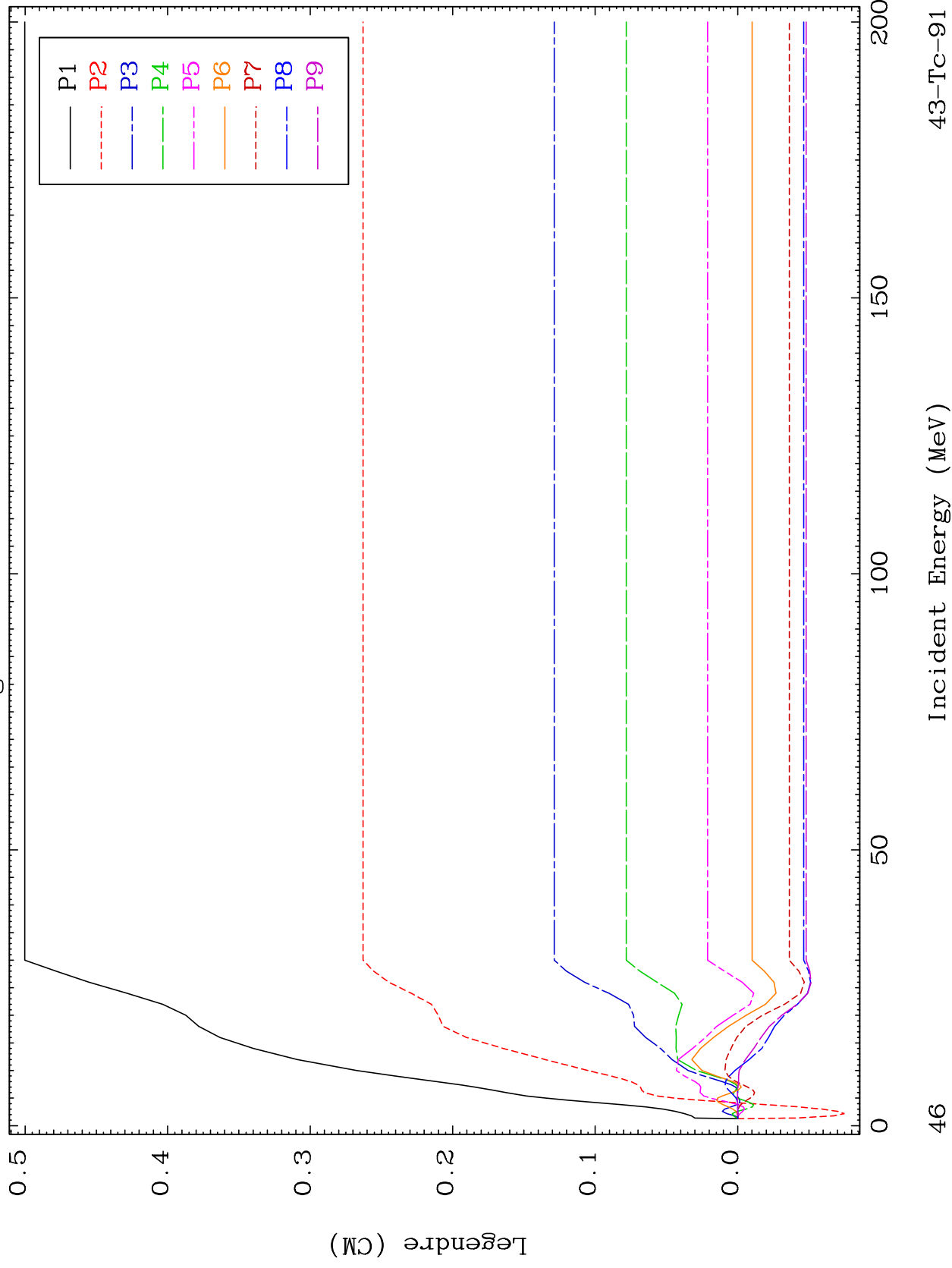
43-Tc-91



MAT 4301

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

43-Tc-91



46

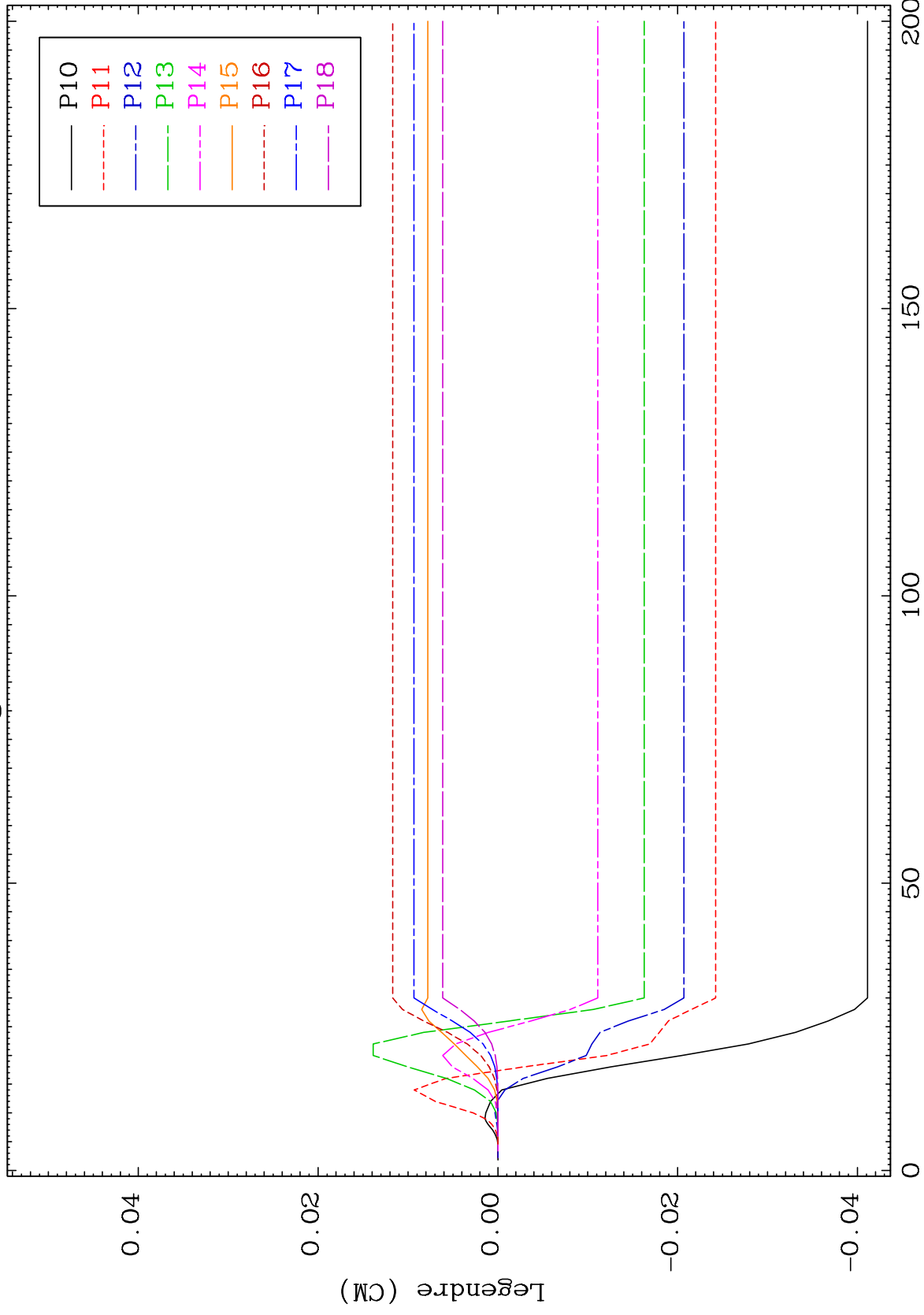
Incident Energy (MeV)

43-Tc-91

MAT 4301

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

43-Tc-91



47

Incident Energy (MeV)

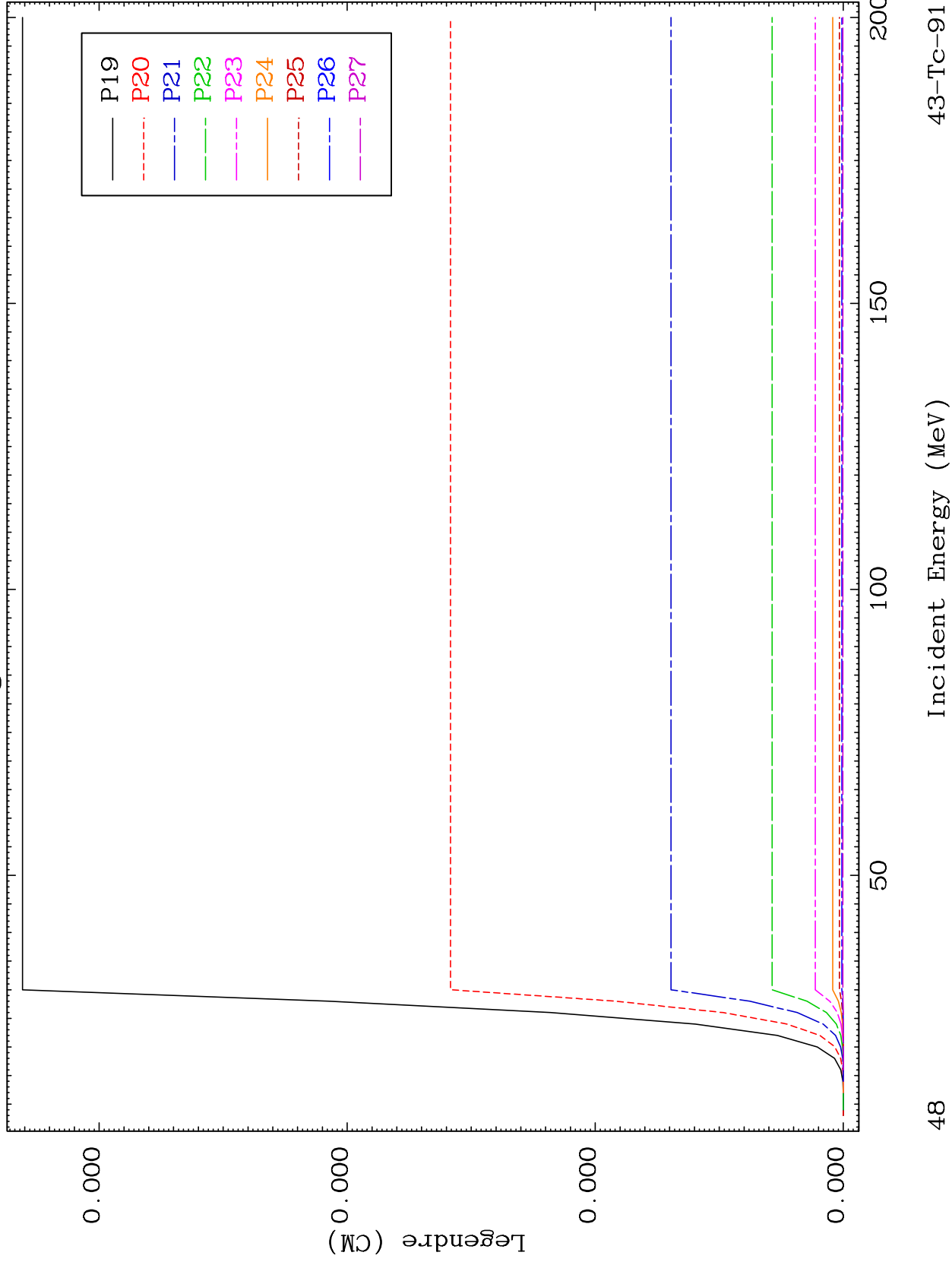
43-Tc-91



MAT 4301

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

43-Tc-91



48

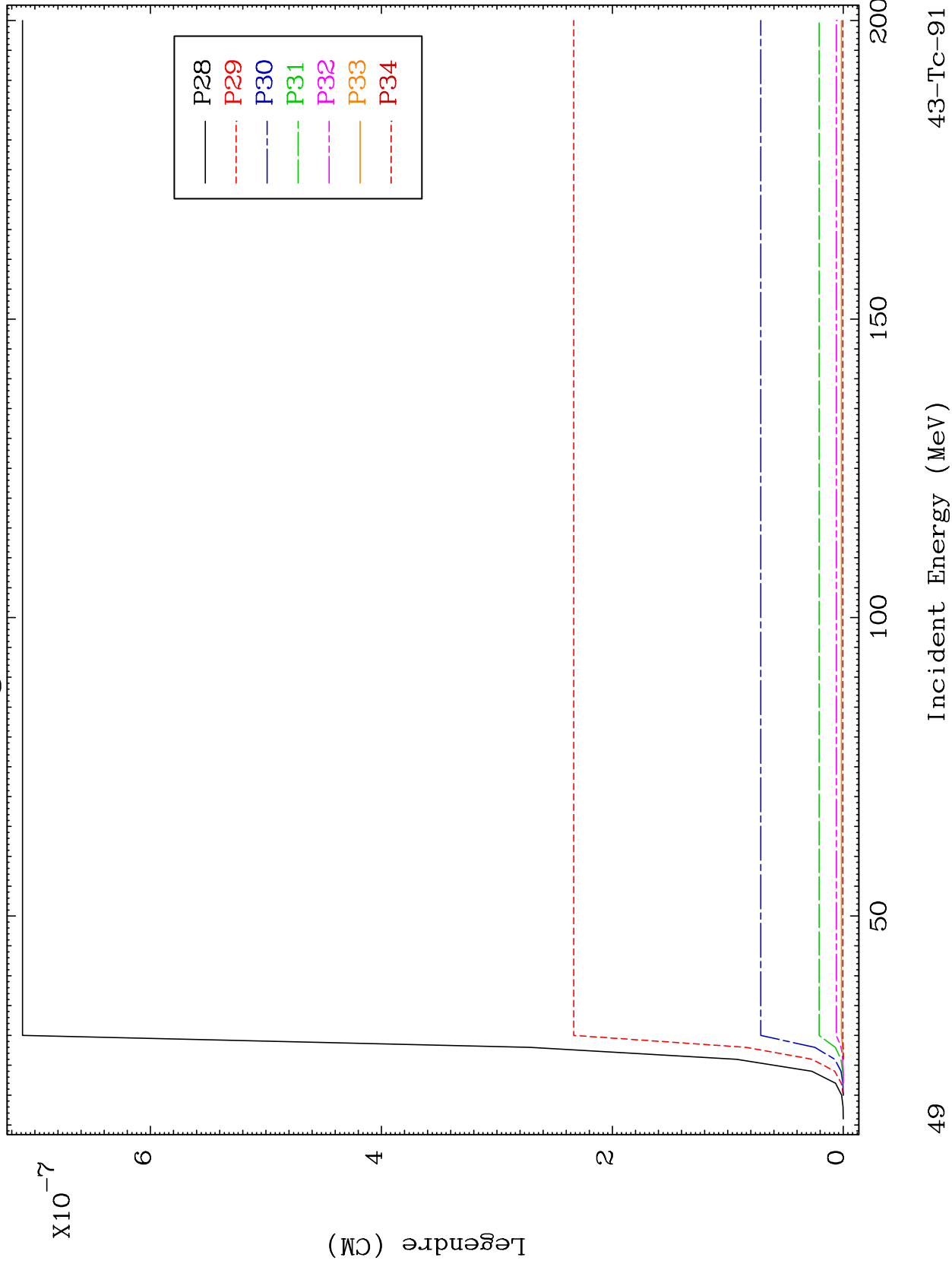
Incident Energy (MeV)

43-Tc-91

MAT 4301

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

43-Tc-91



49

Incident Energy (MeV)

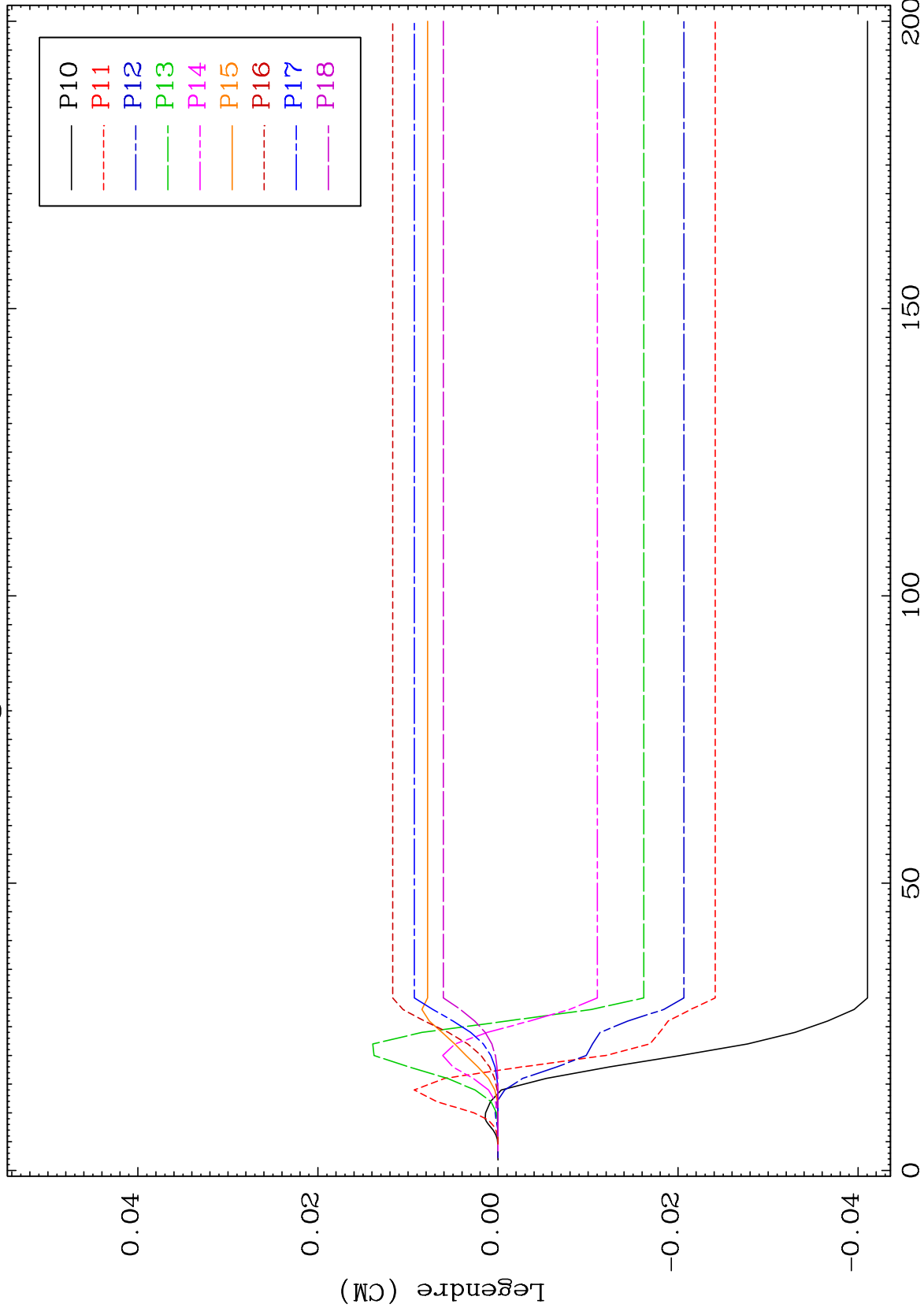
43-Tc-91



MAT 4301

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

43-Tc-91



51

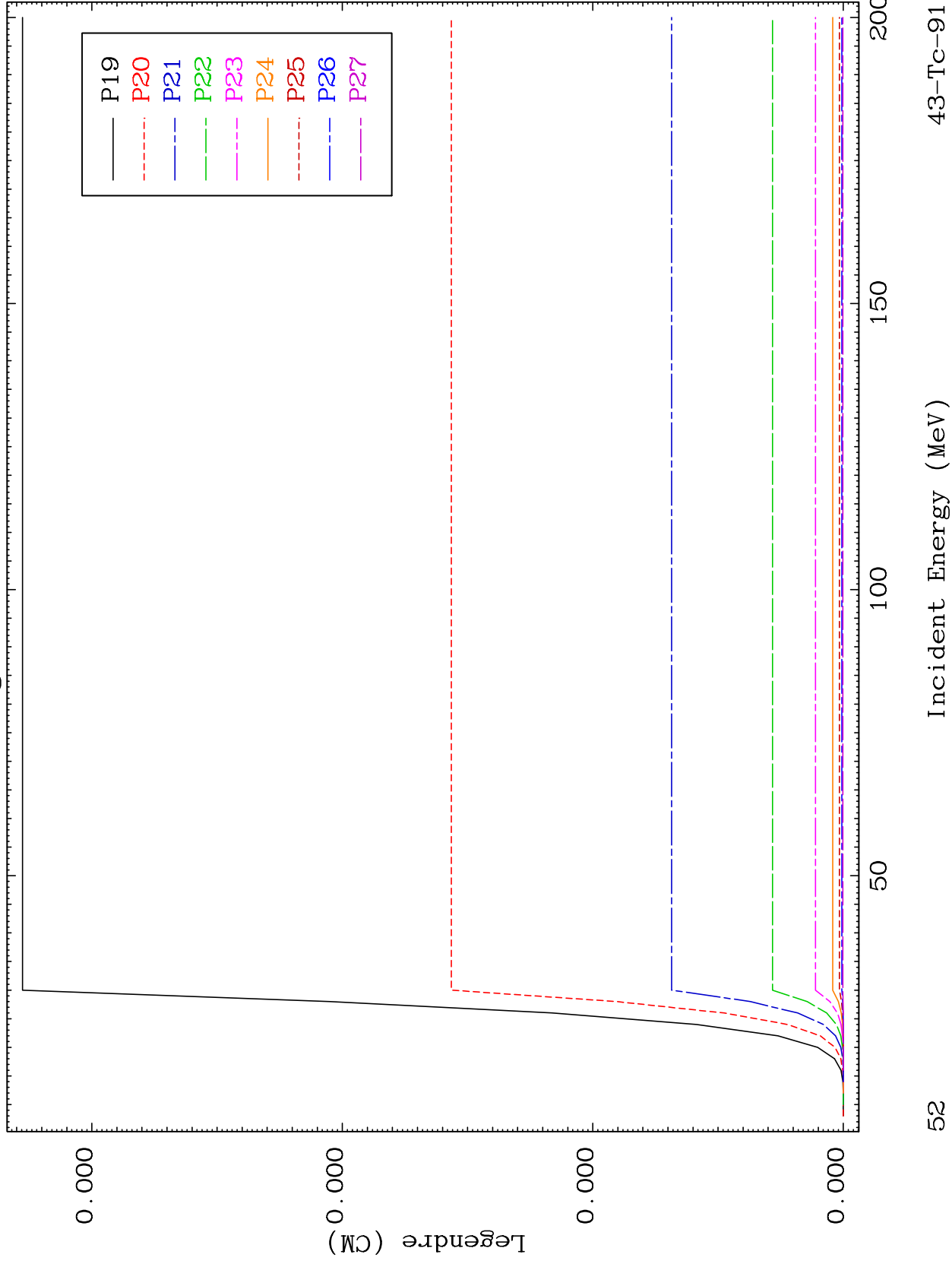
Incident Energy (MeV)

43-Tc-91

MAT 4301

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

43-Tc-91



52

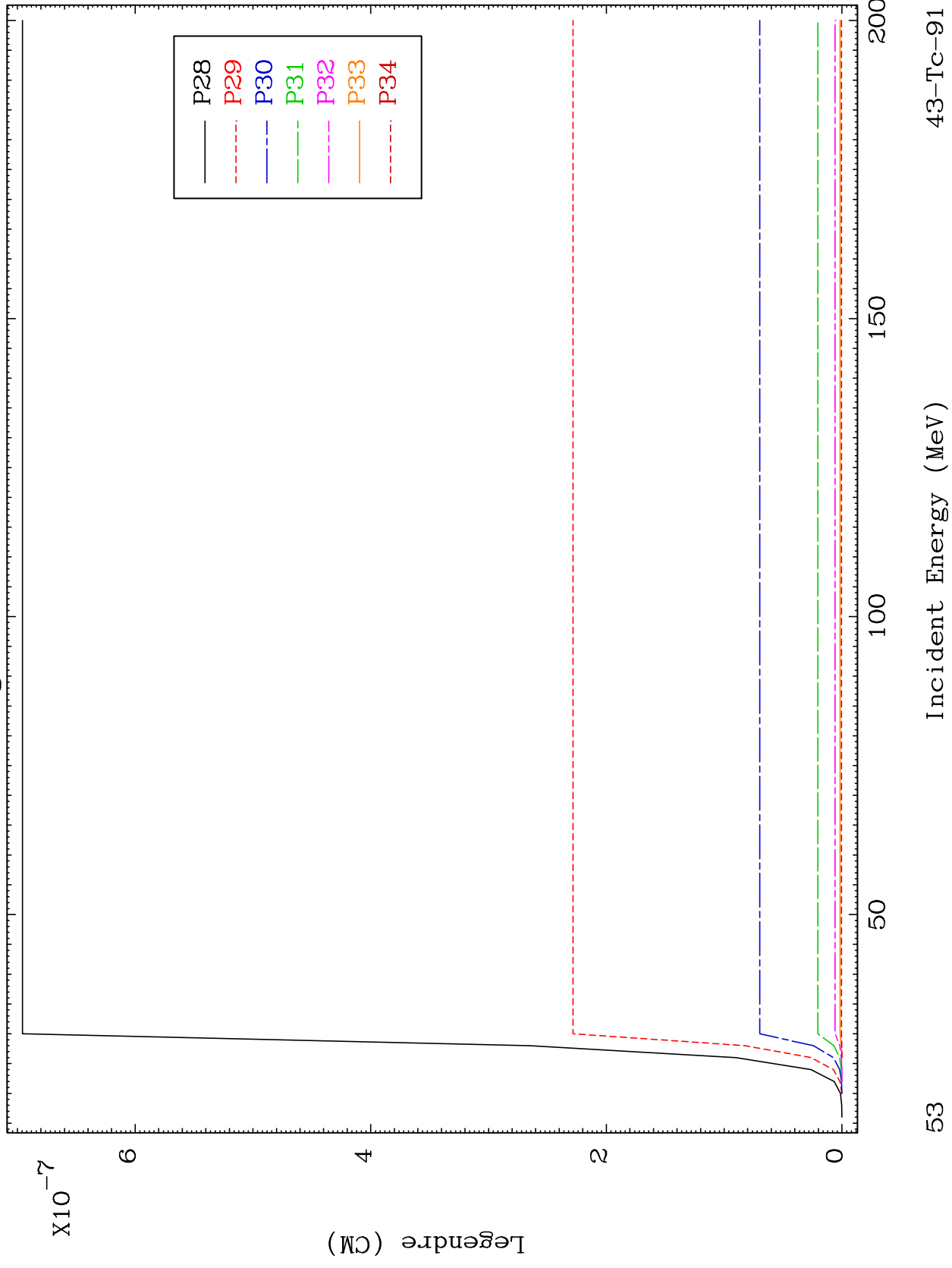
Incident Energy (MeV)

43-Tc-91

MAT 4301

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

43-Tc-91



53

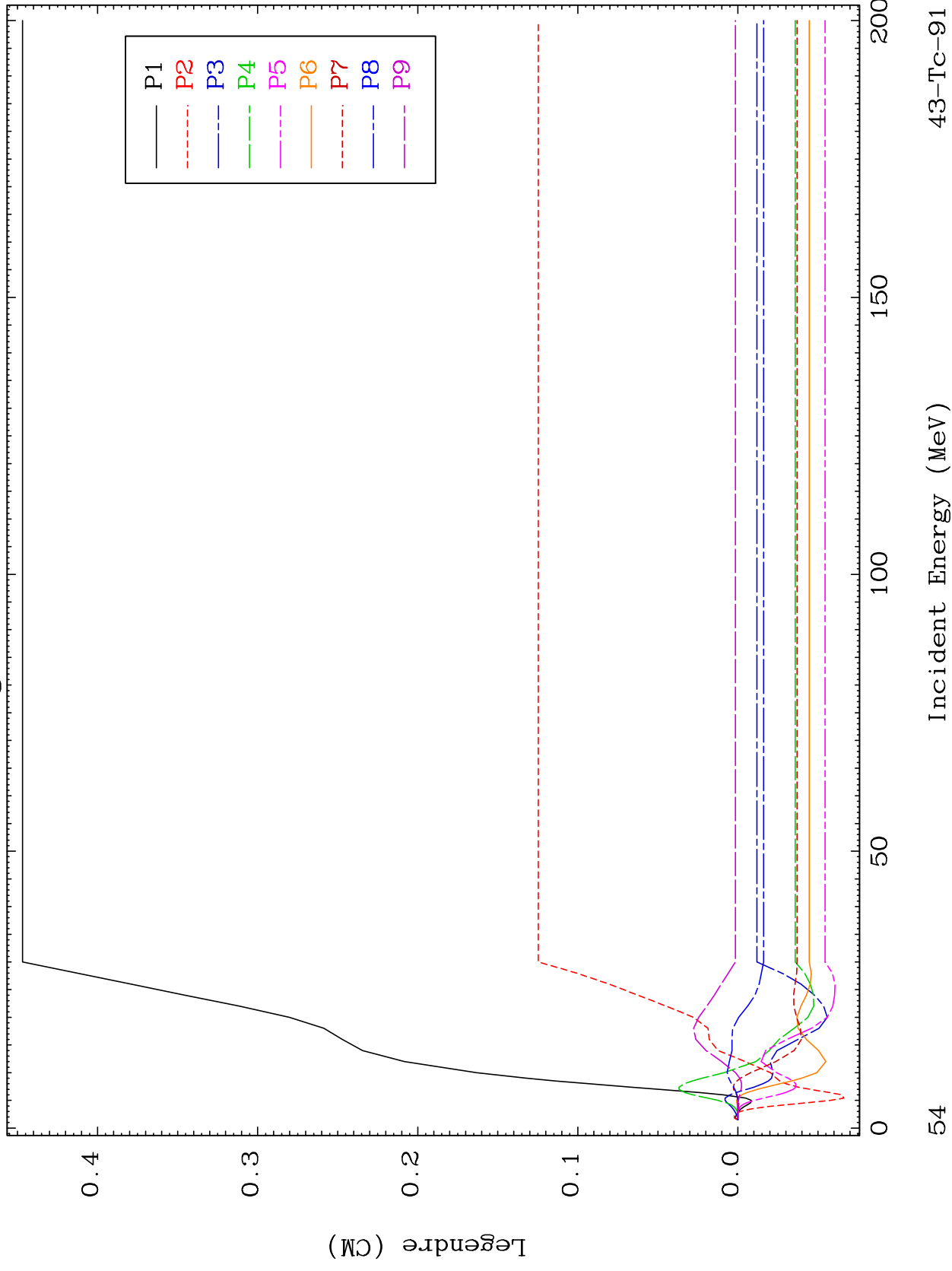
Incident Energy (MeV)

43-Tc-91

MAT 4301

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

43-Tc-91

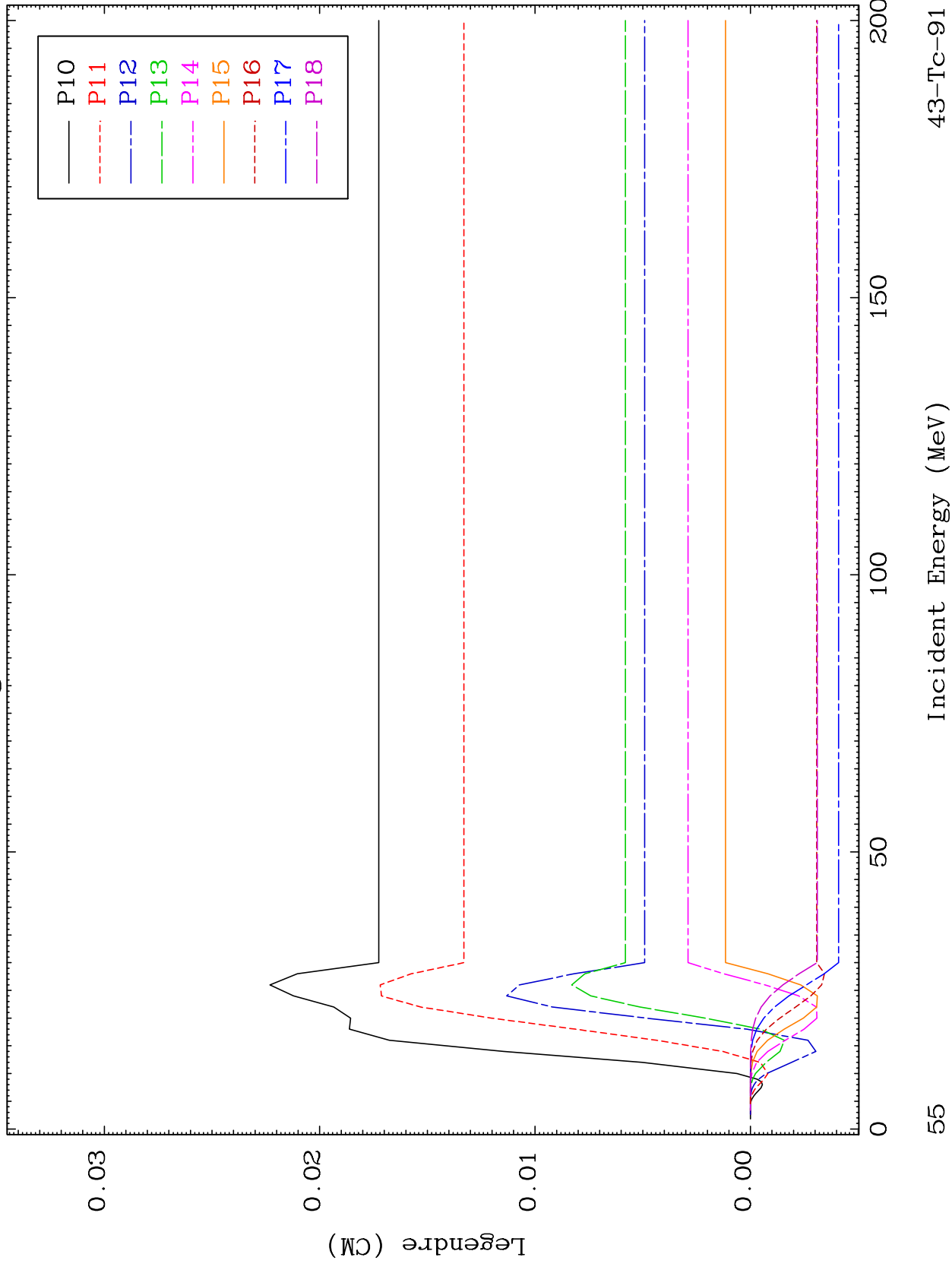


54

MAT 4301

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

43-Tc-91

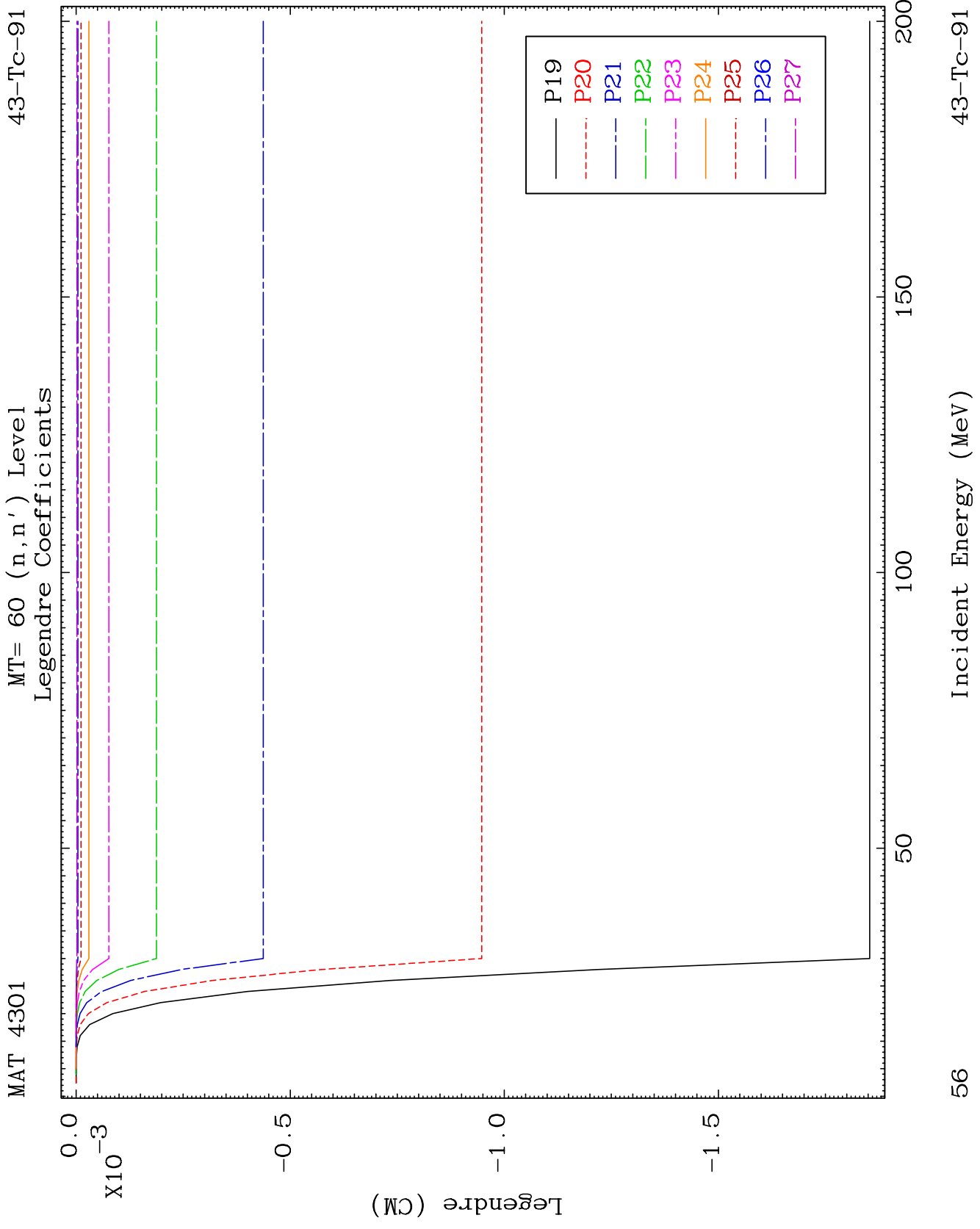


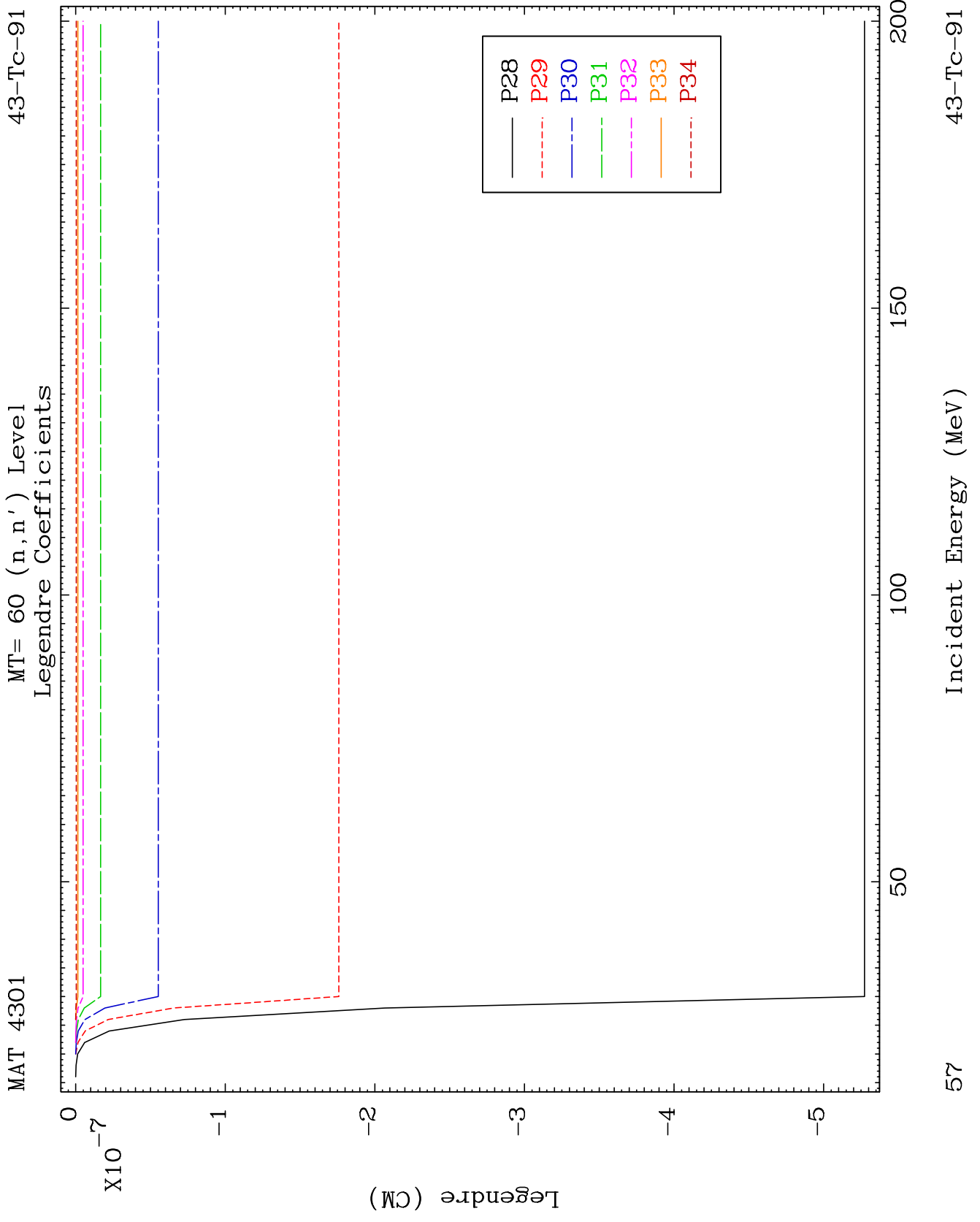
43-Tc-91

Incident Energy (MeV)

55



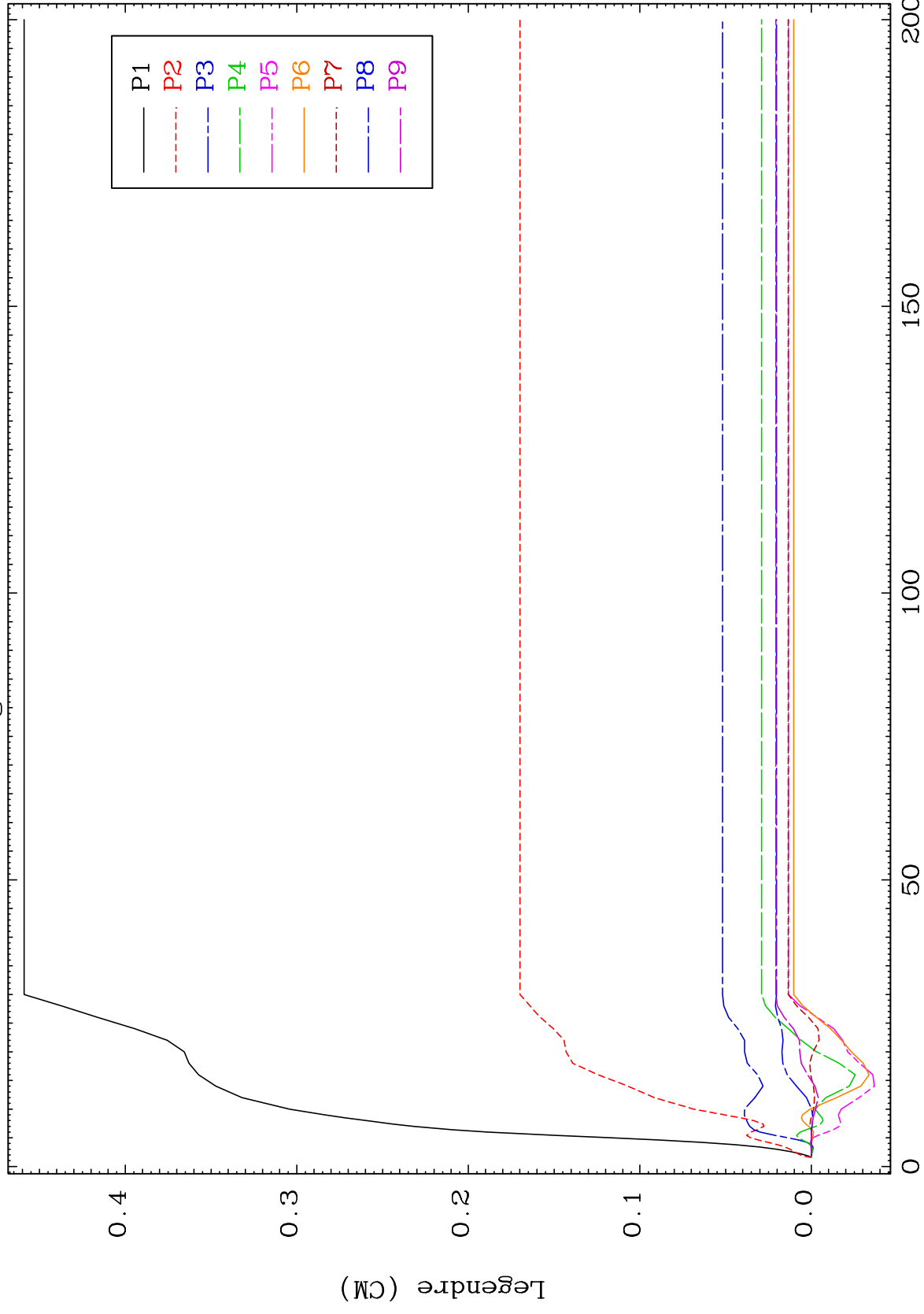




MAT 4301

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

43-Tc-91



58

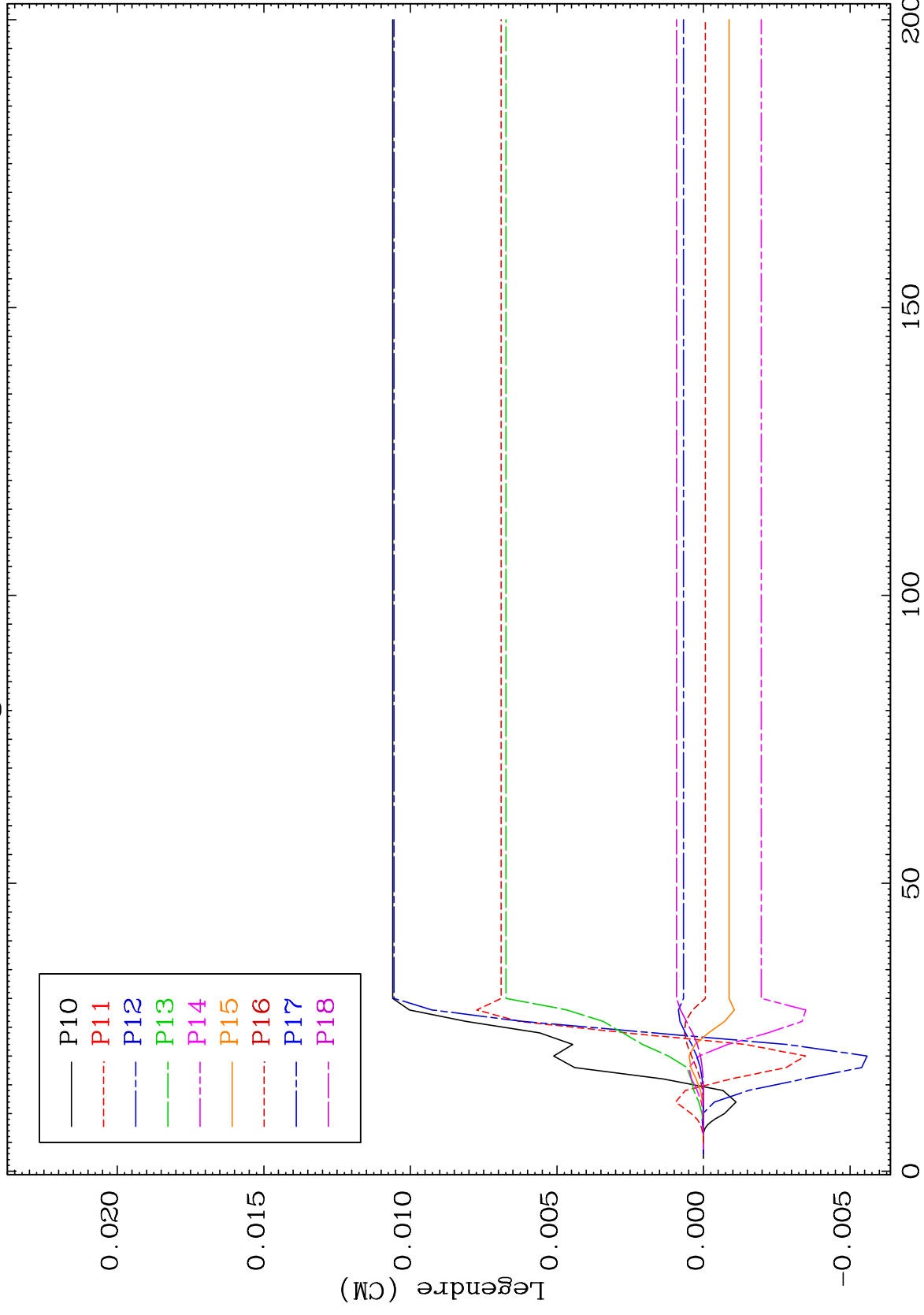
Incident Energy (MeV)

43-Tc-91

MAT 4301

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

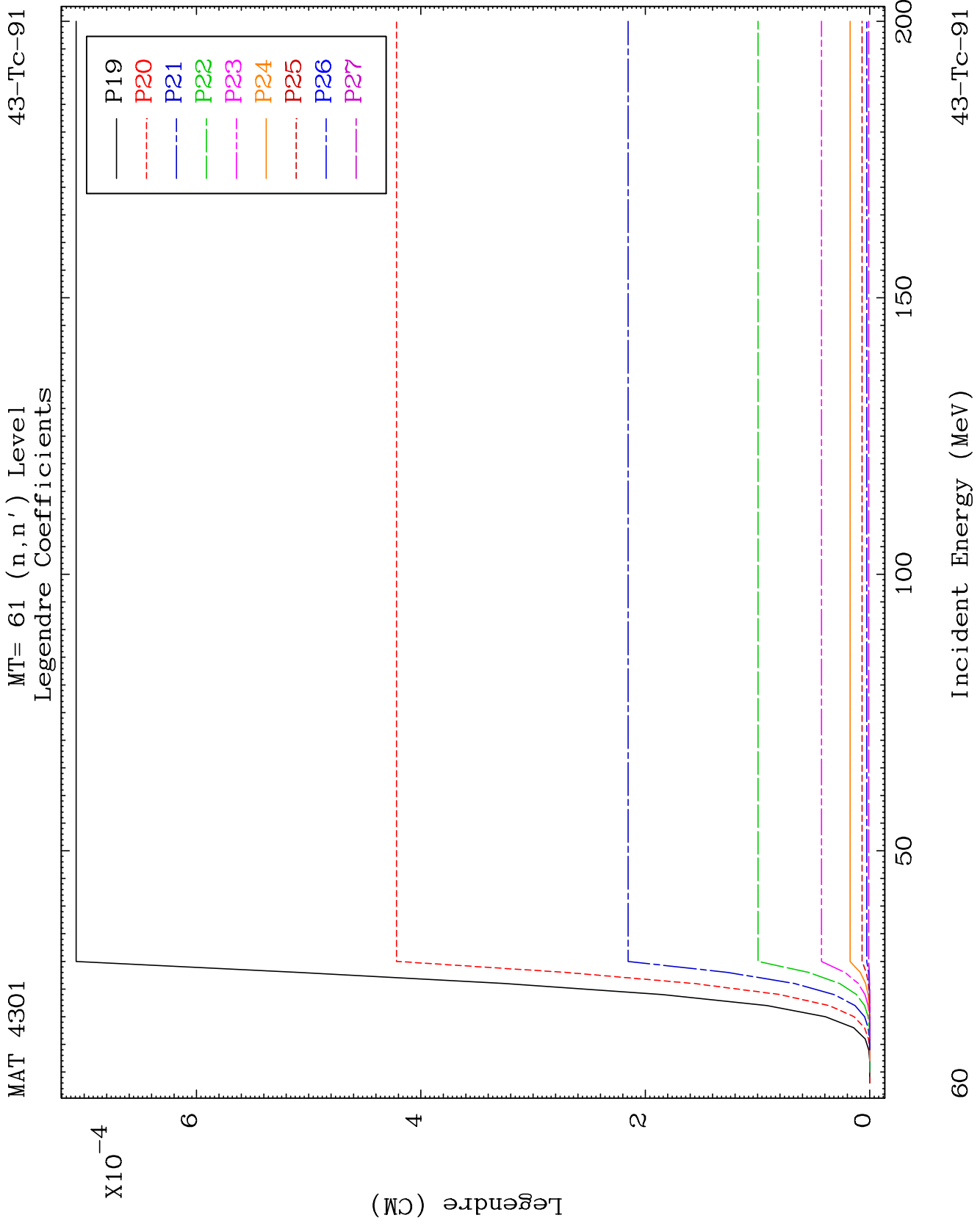
43-Tc-91

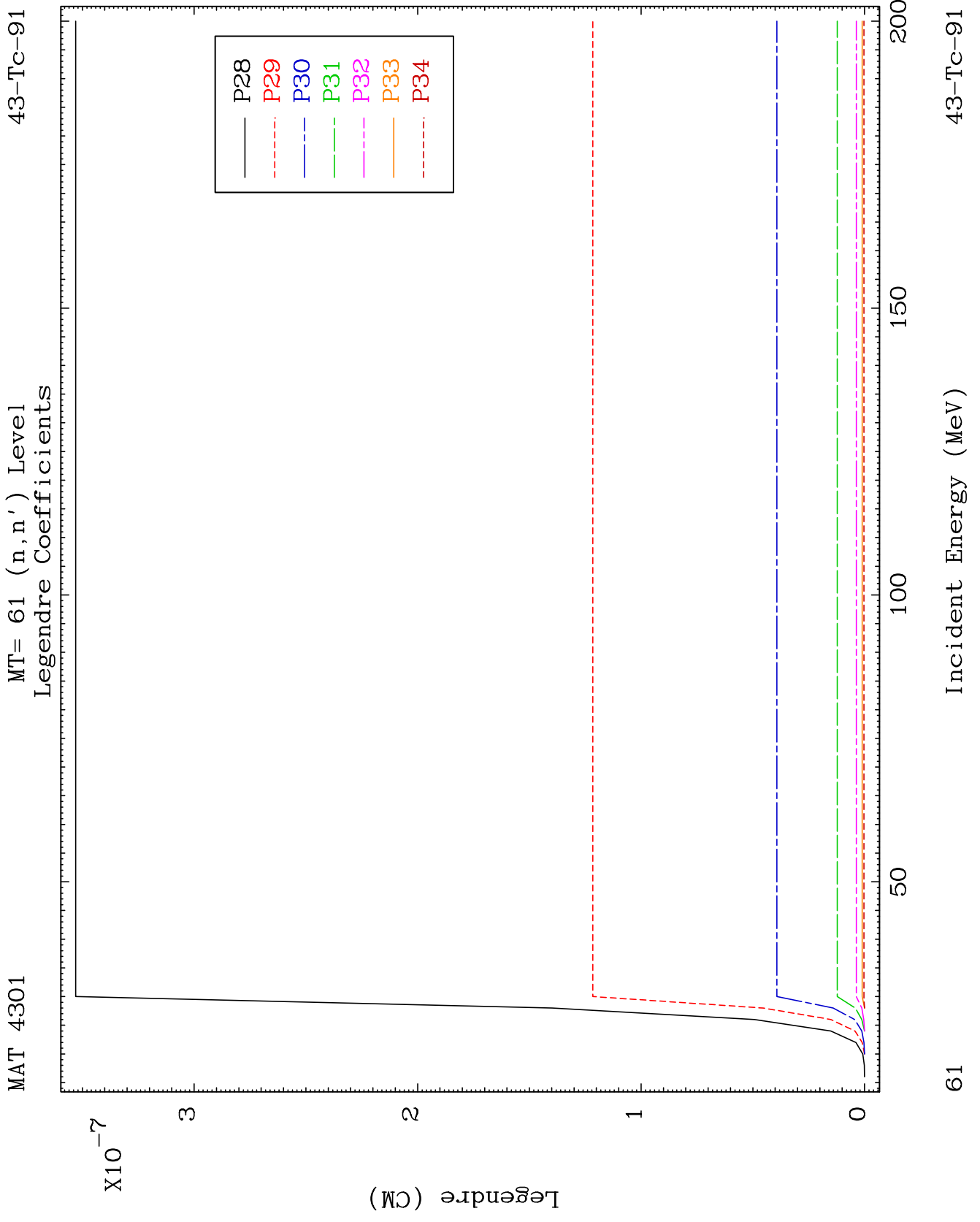


59

Incident Energy (MeV)

43-Tc-91

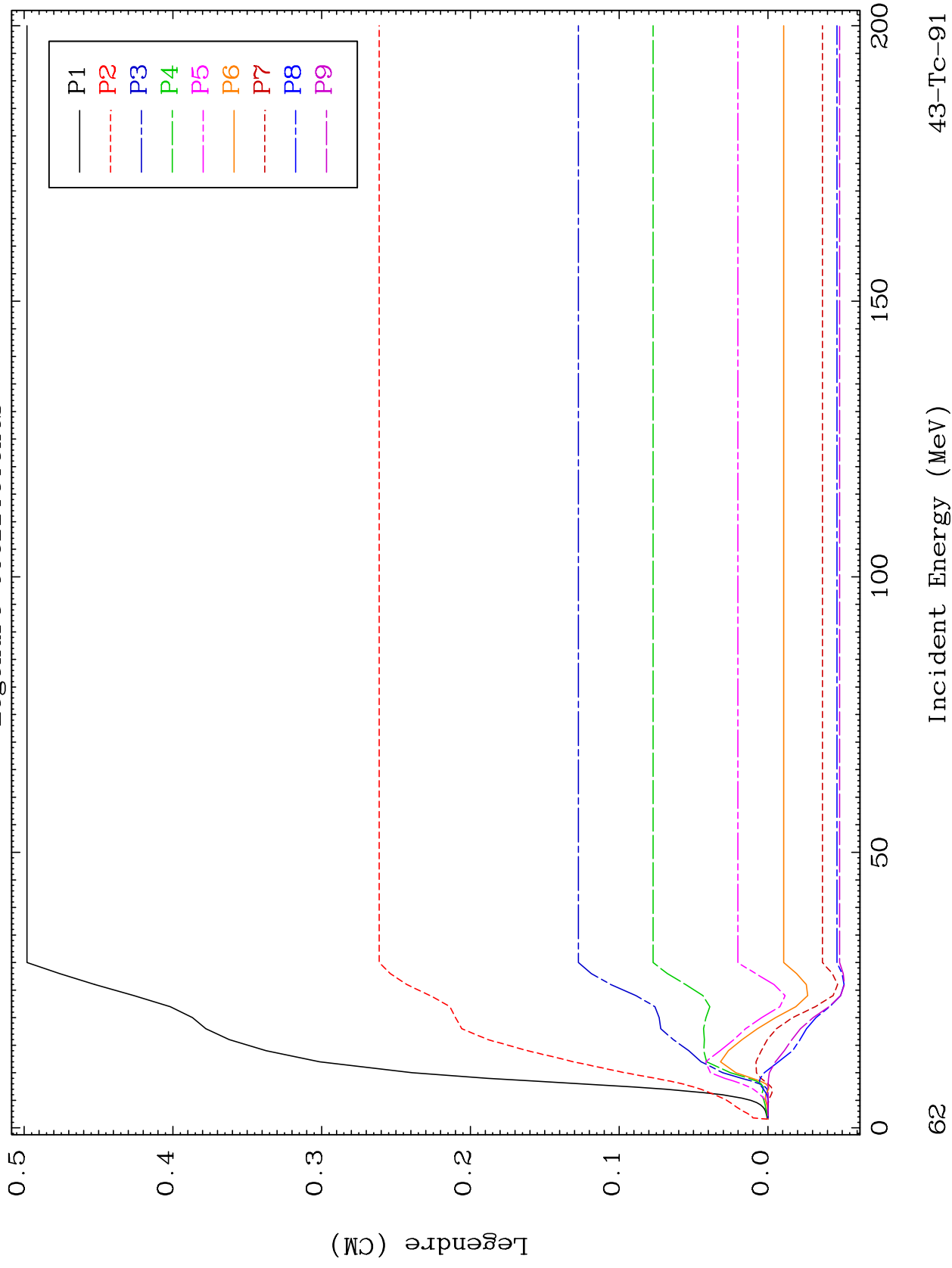




MAT 4301

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

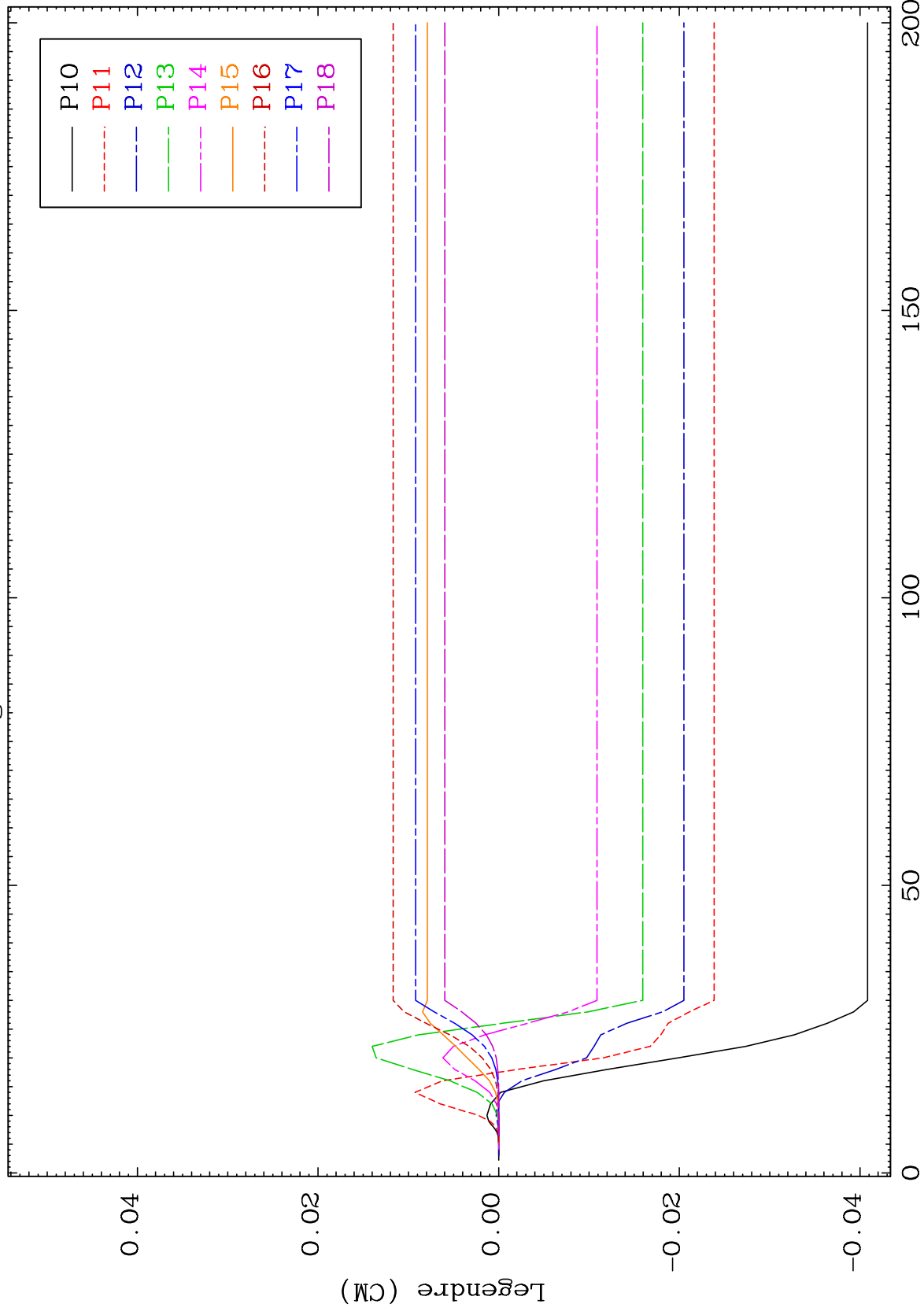
43-Tc-91



MAT 4301

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

43-Tc-91



63

Incident Energy (MeV)

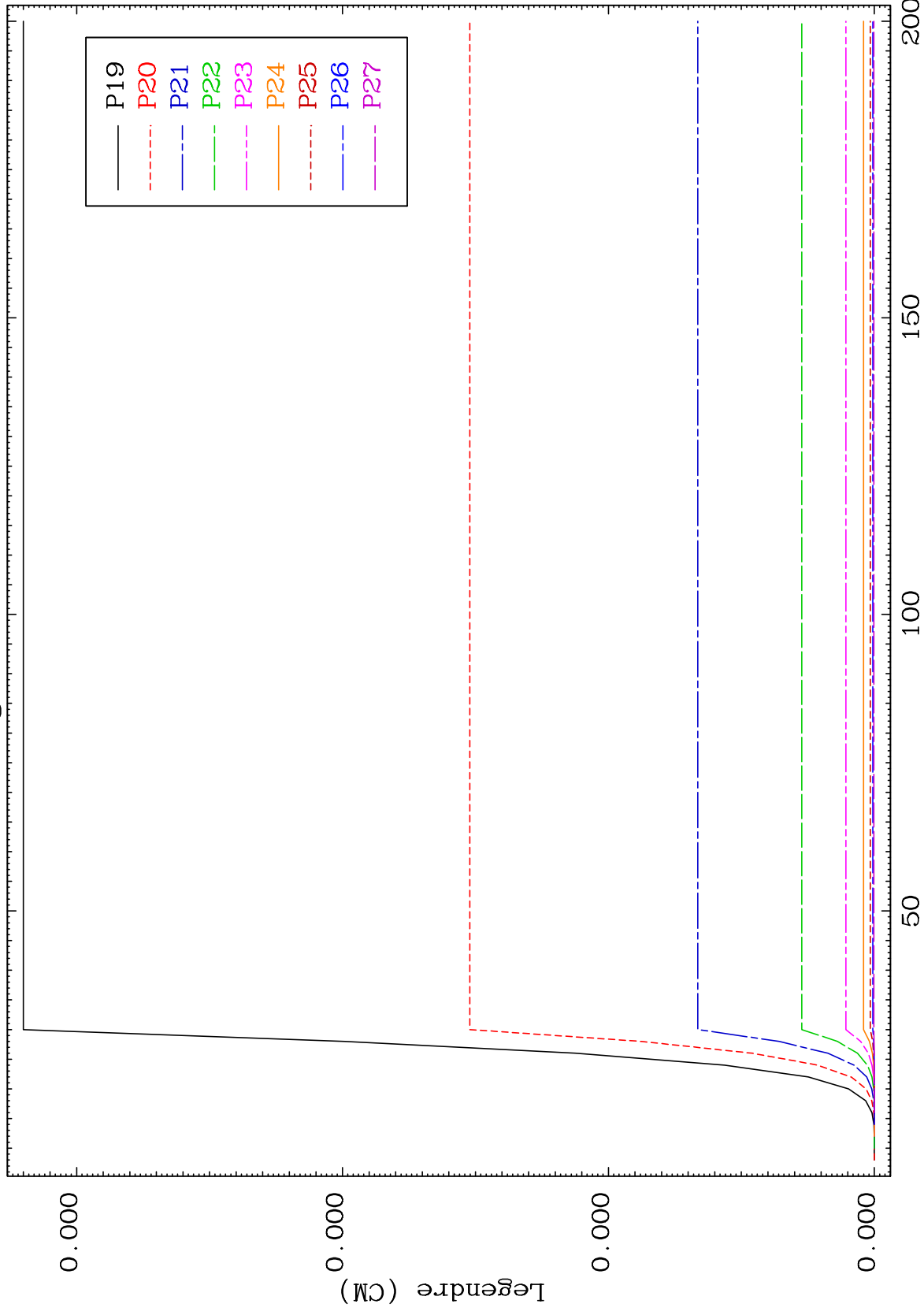
43-Tc-91



MAT 4301

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

43-Tc-91



64

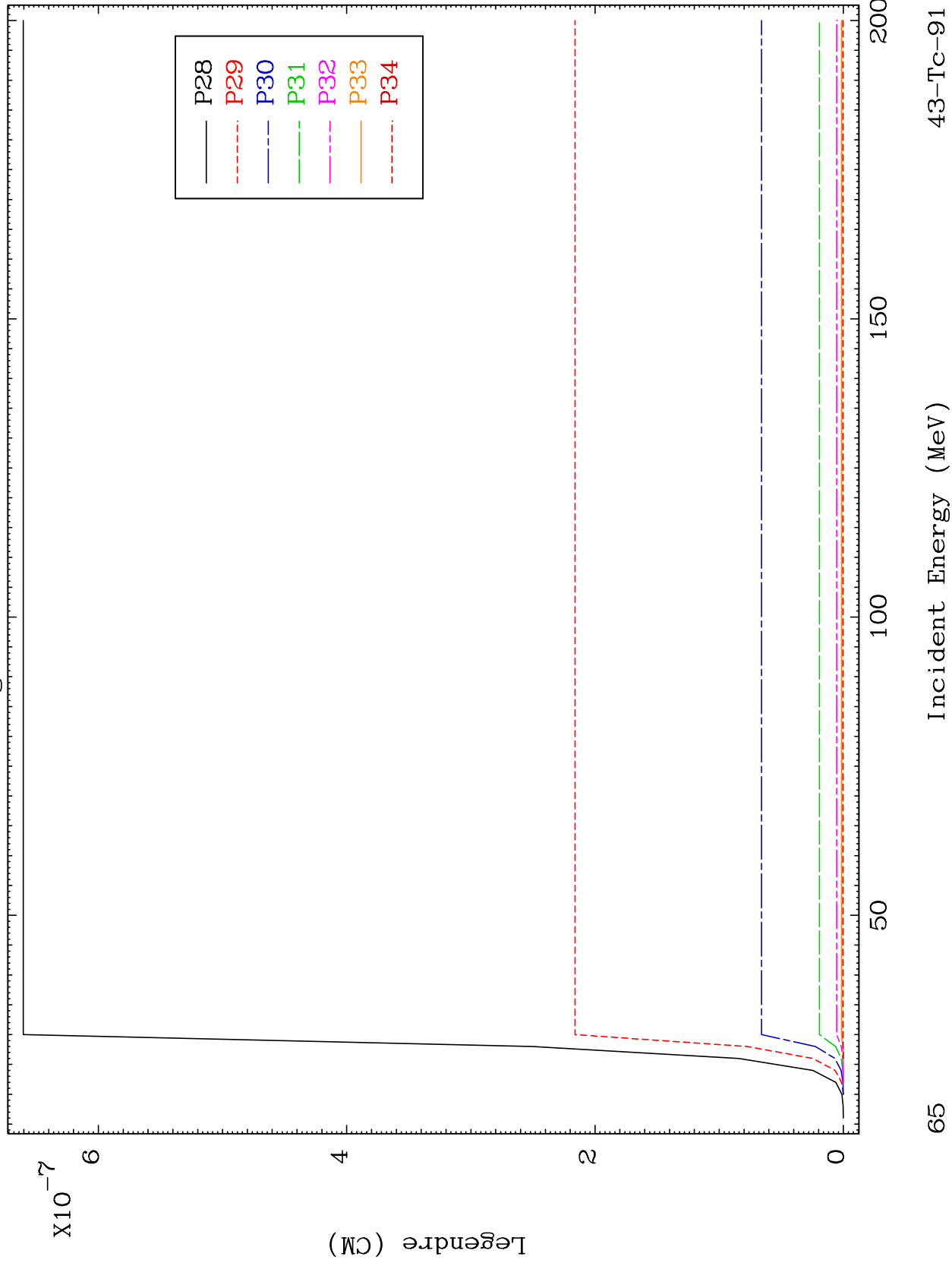
Incident Energy (MeV)

43-Tc-91

MAT 4301

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

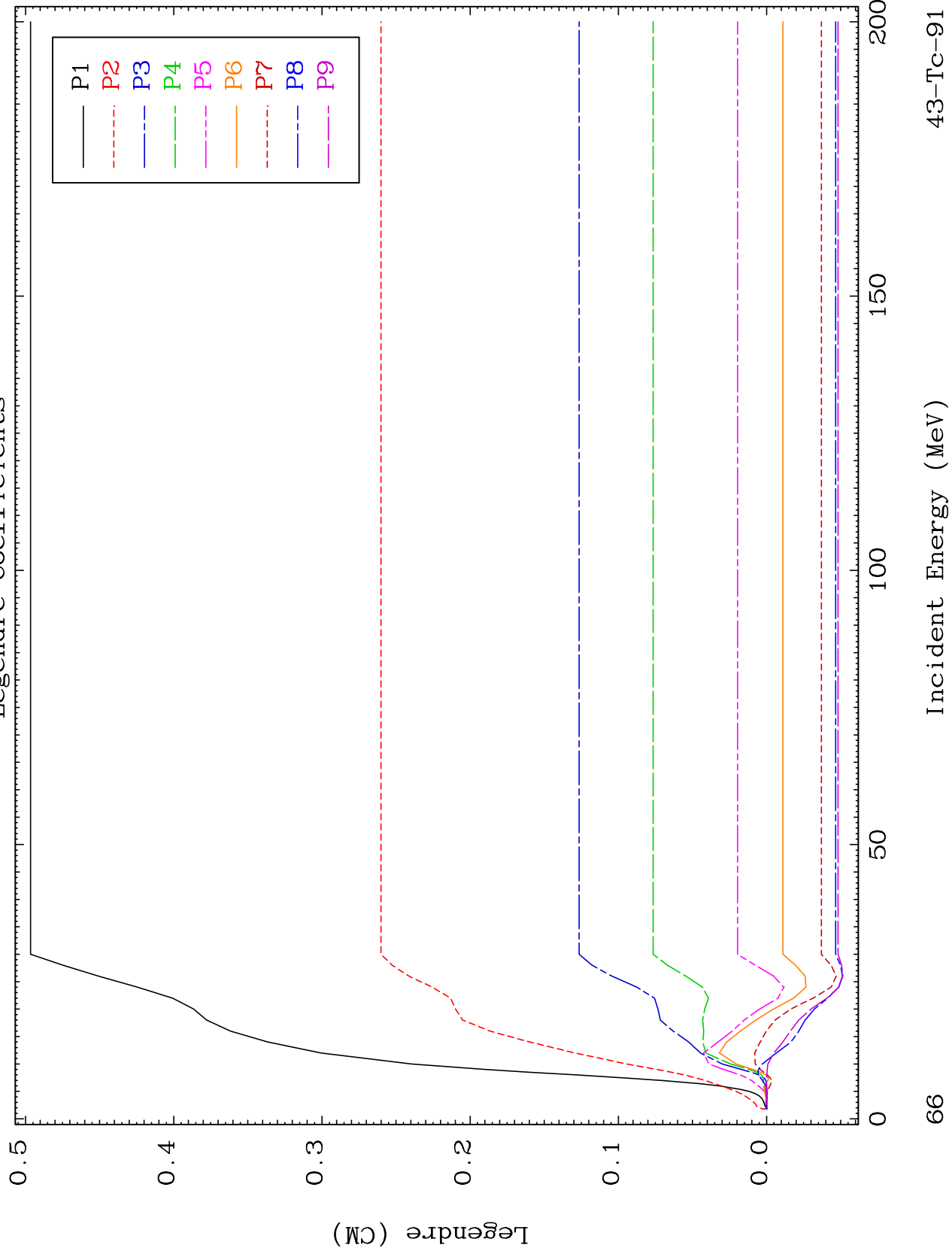
43-Tc-91



MAT 4301

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

43-Tc-91

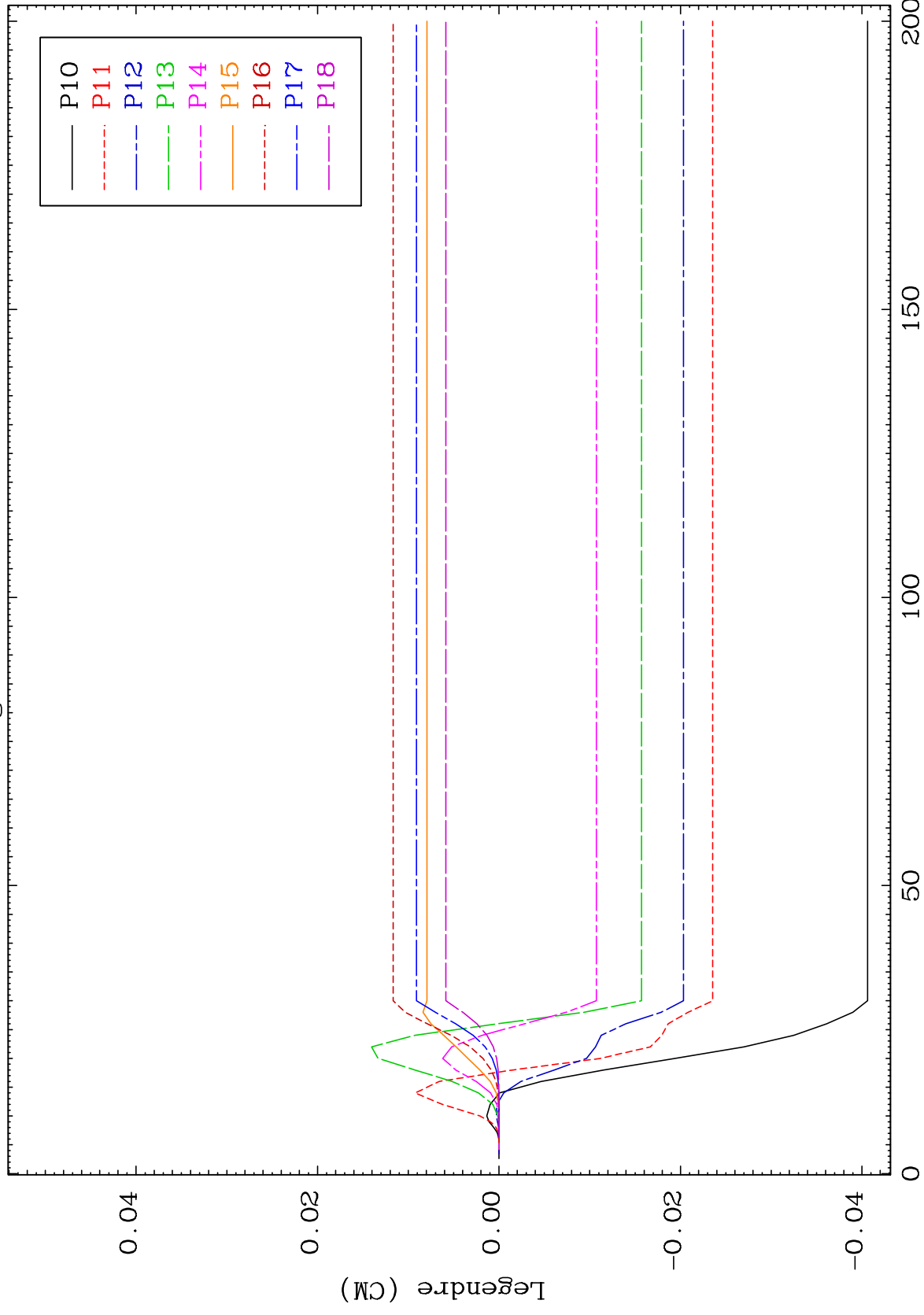


66

MAT 4301

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

43-Tc-91



67

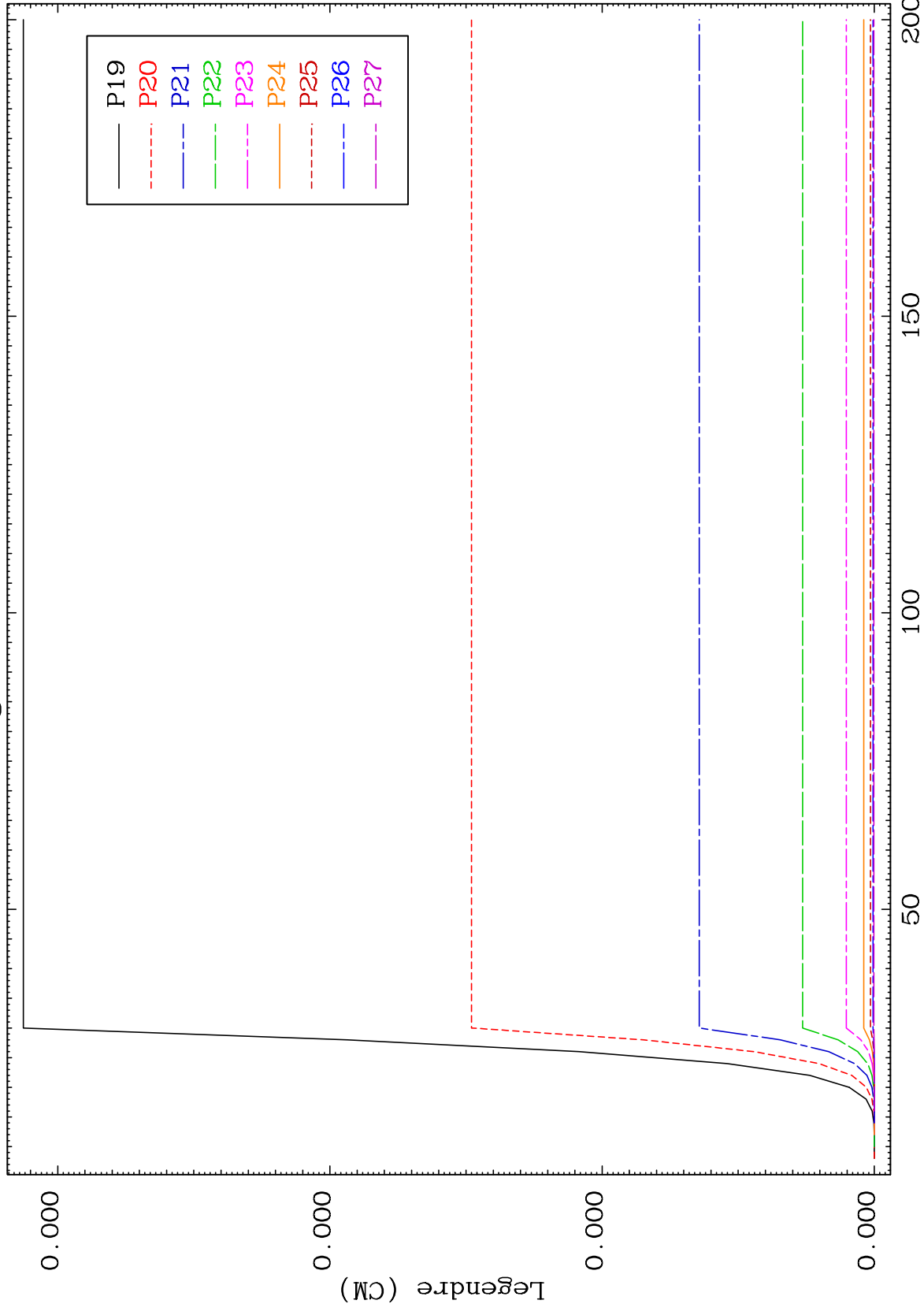
Incident Energy (MeV)

43-Tc-91

MAT 4301

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

43-Tc-91



68

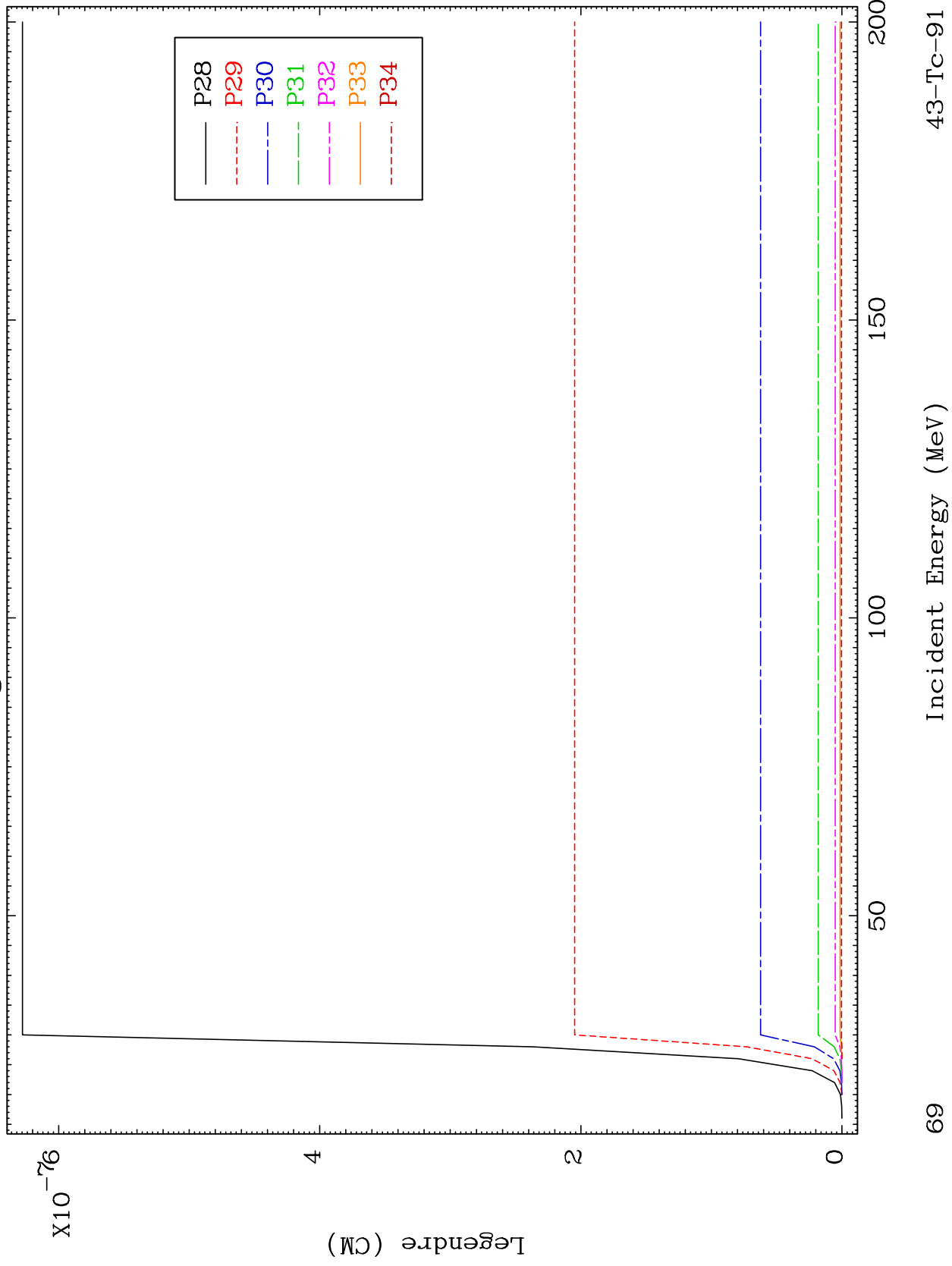
Incident Energy (MeV)

43-Tc-91

MAT 4301

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

43-Tc-91



69

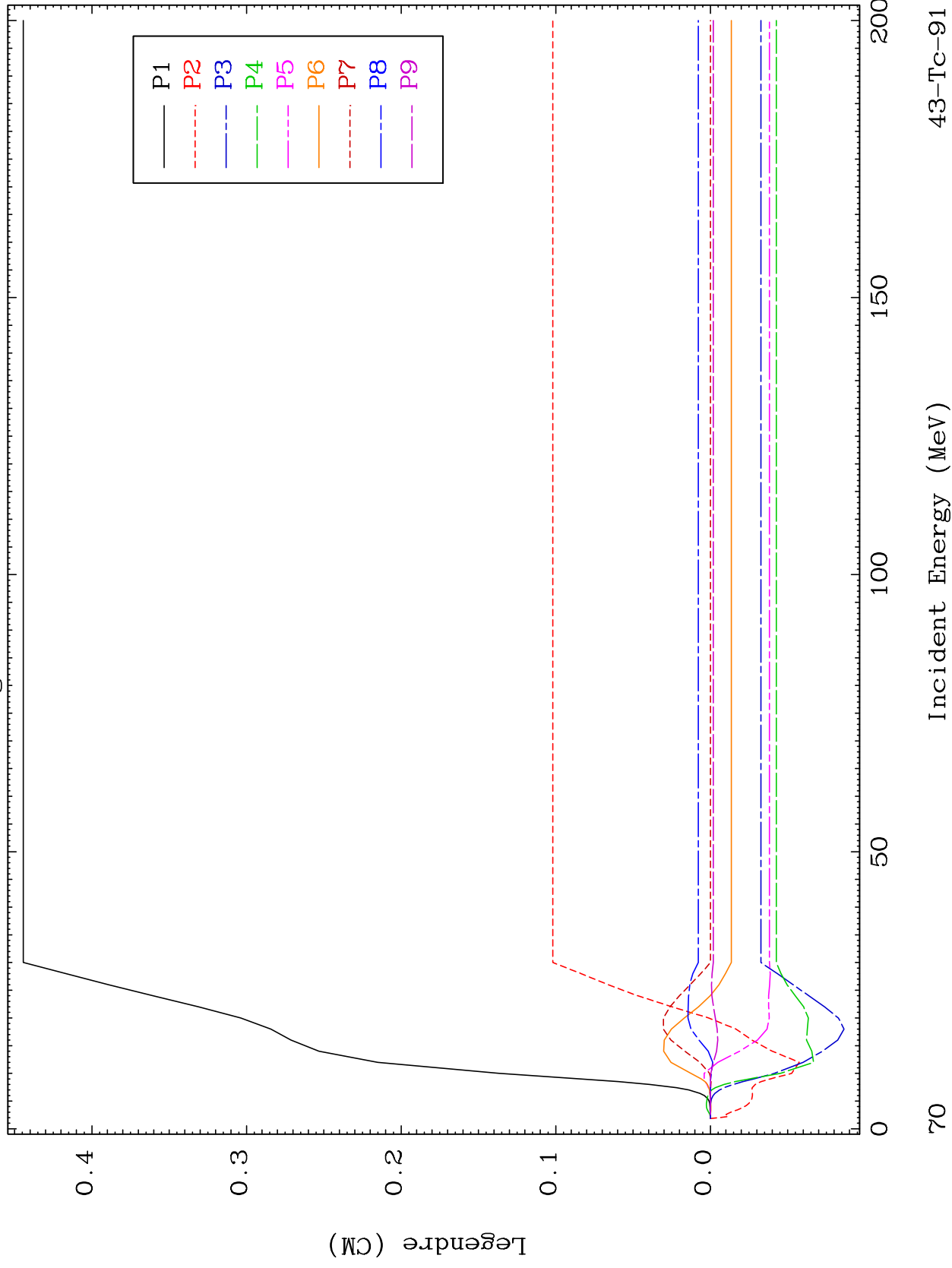
Incident Energy (MeV)

43-Tc-91

MAT 4301

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

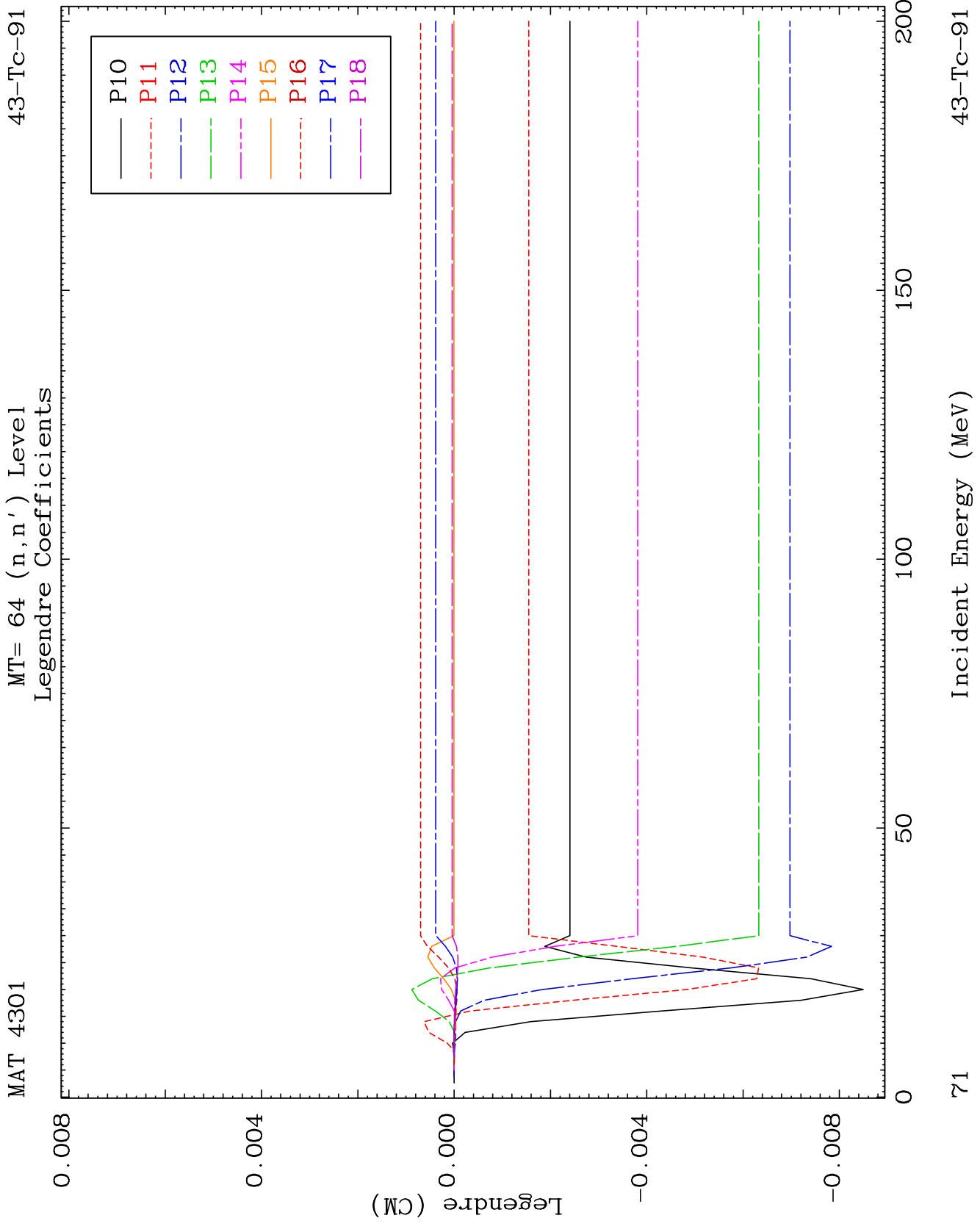
43-Tc-91



43-Tc-91

Incident Energy (MeV)

70

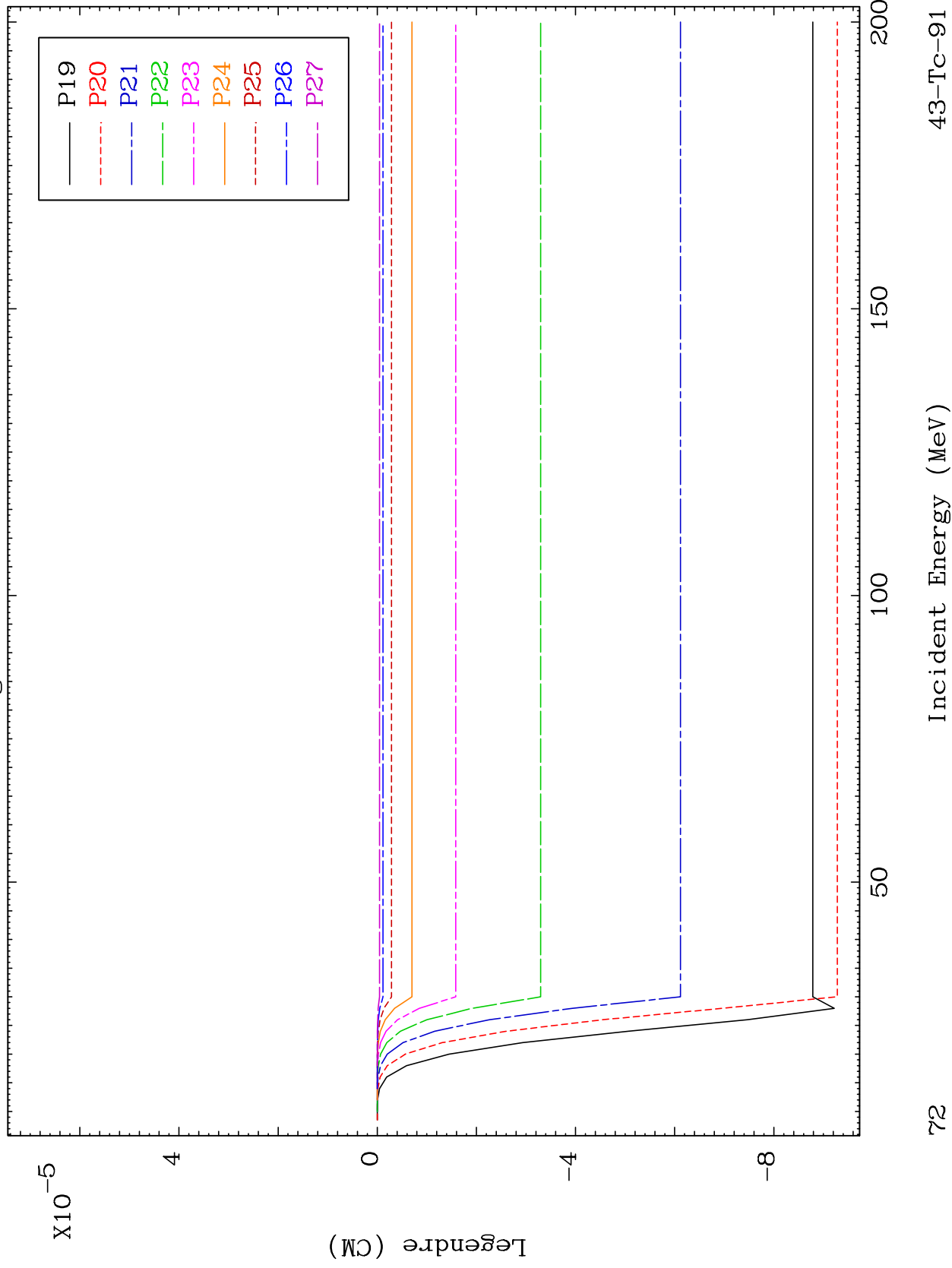




MAT 4301

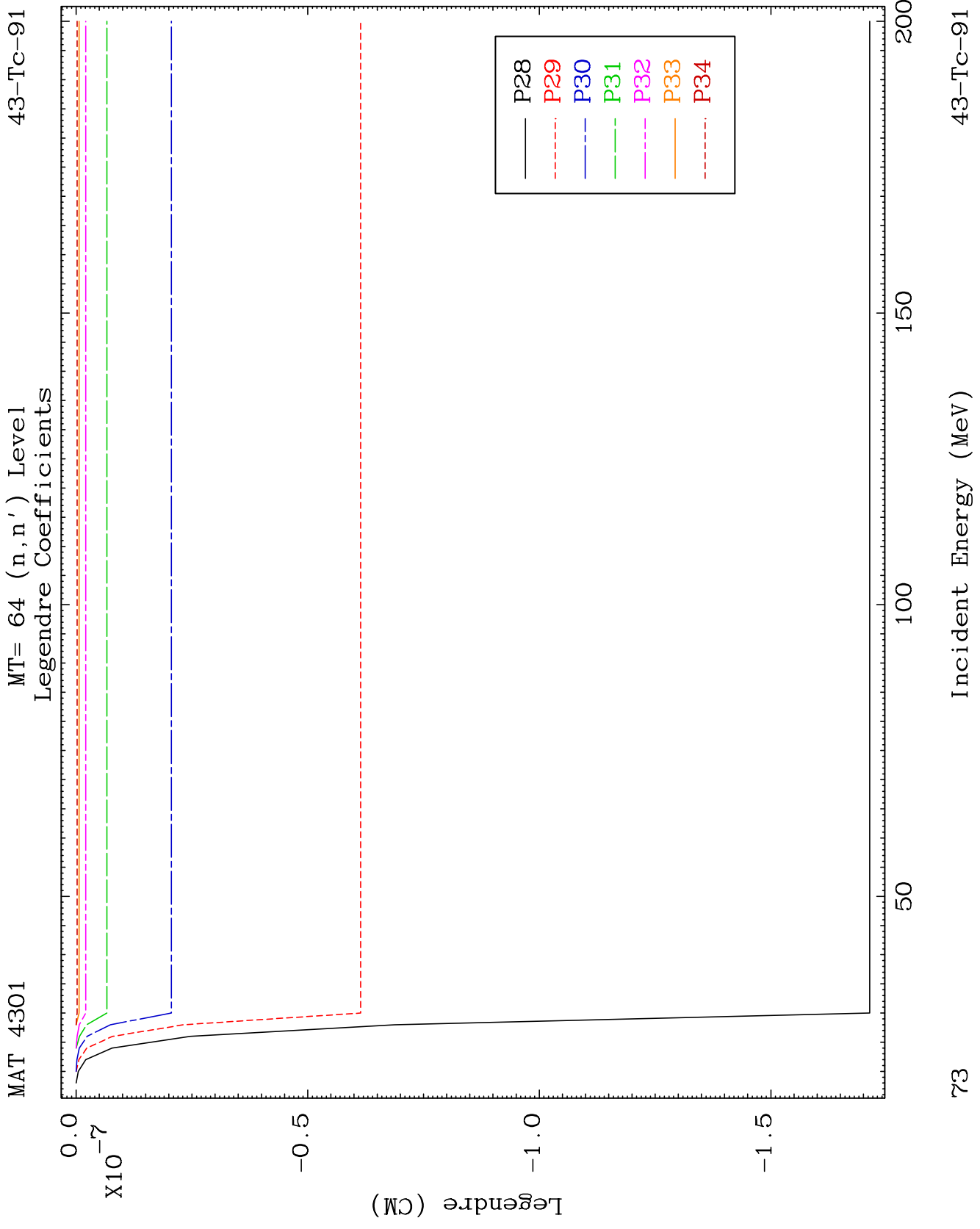
MT= 64 (n,n') Level  
Legendre Coefficients

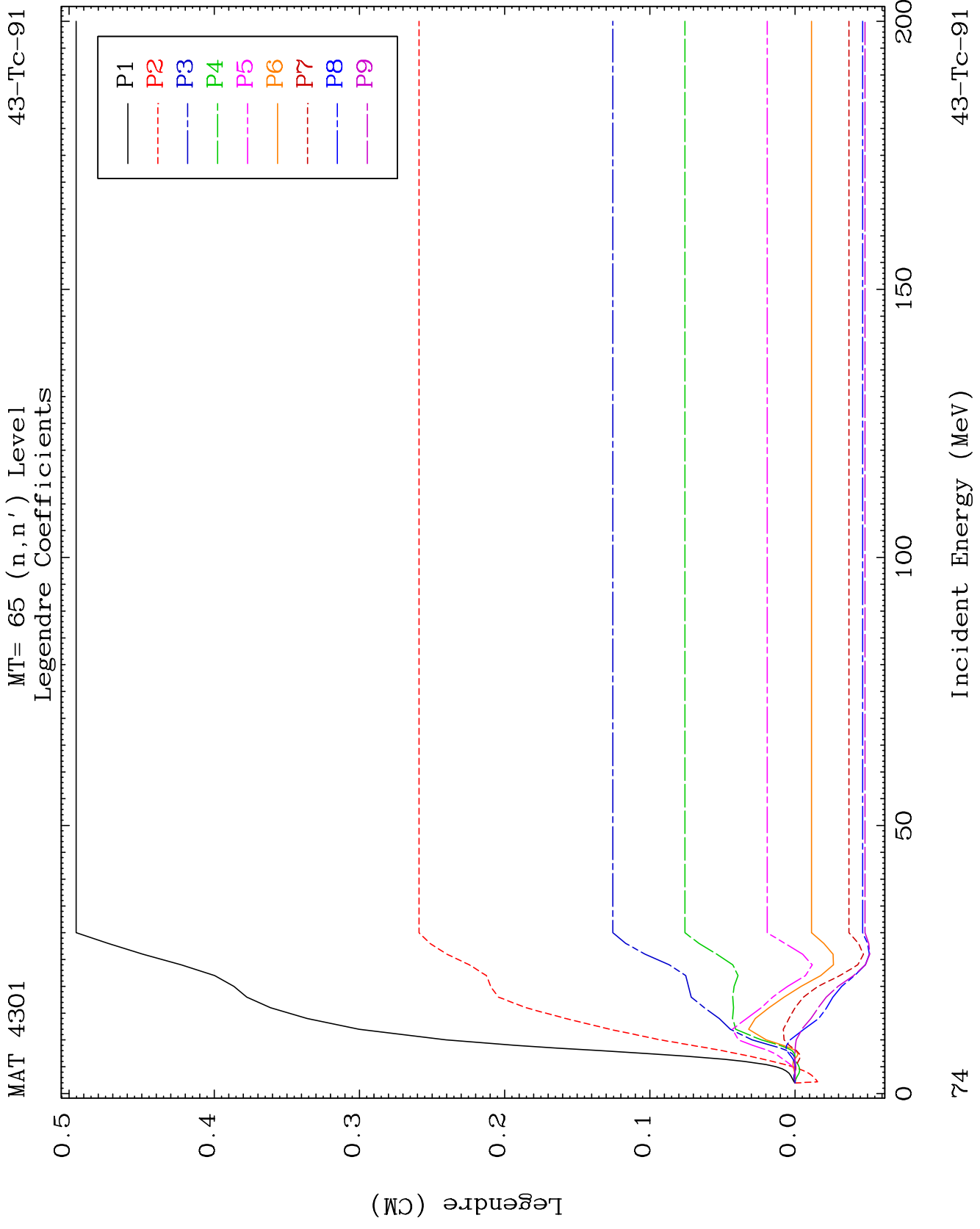
43-Tc-91



72

43-Tc-91

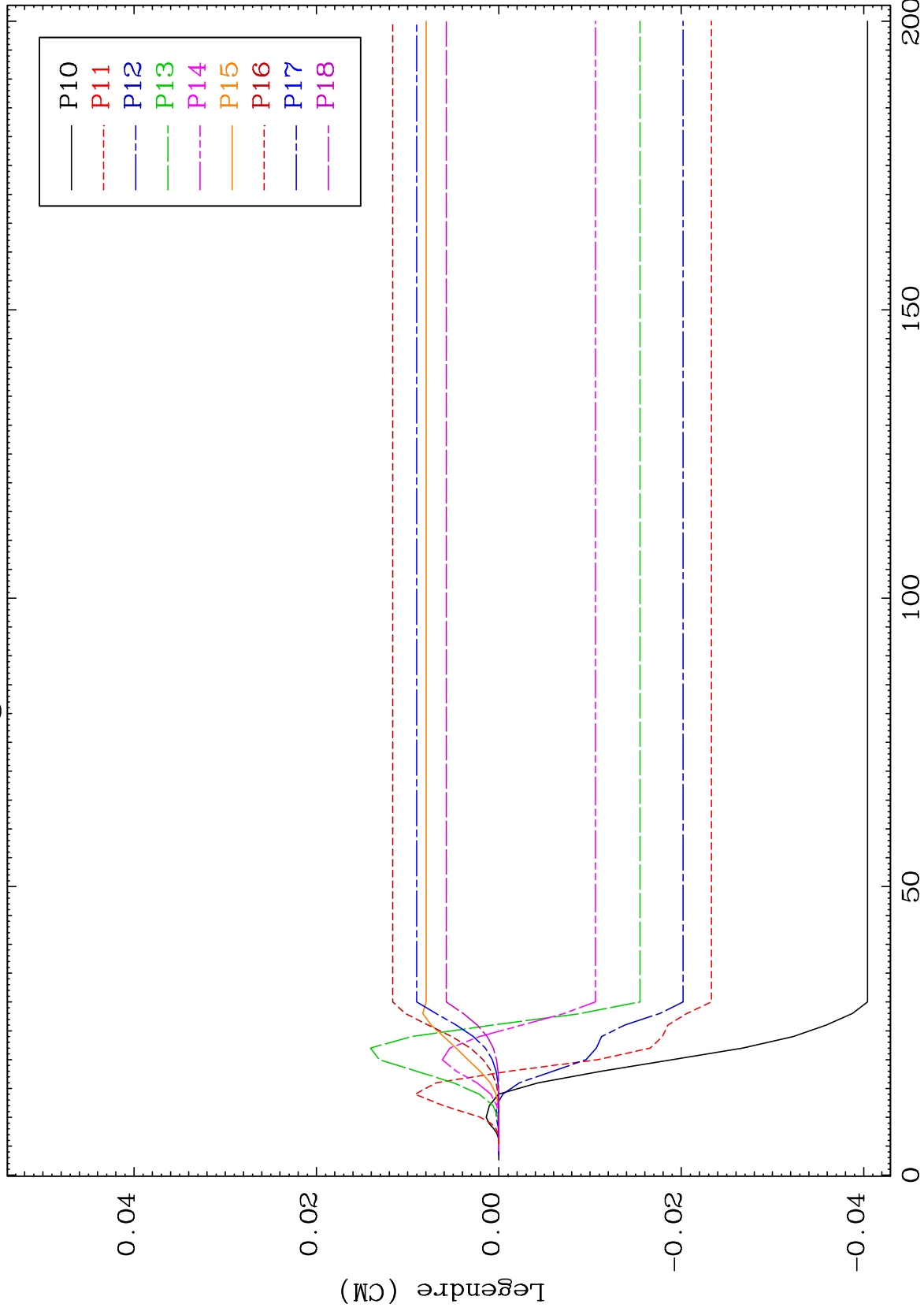




MAT 4301

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

43-Tc-91



75

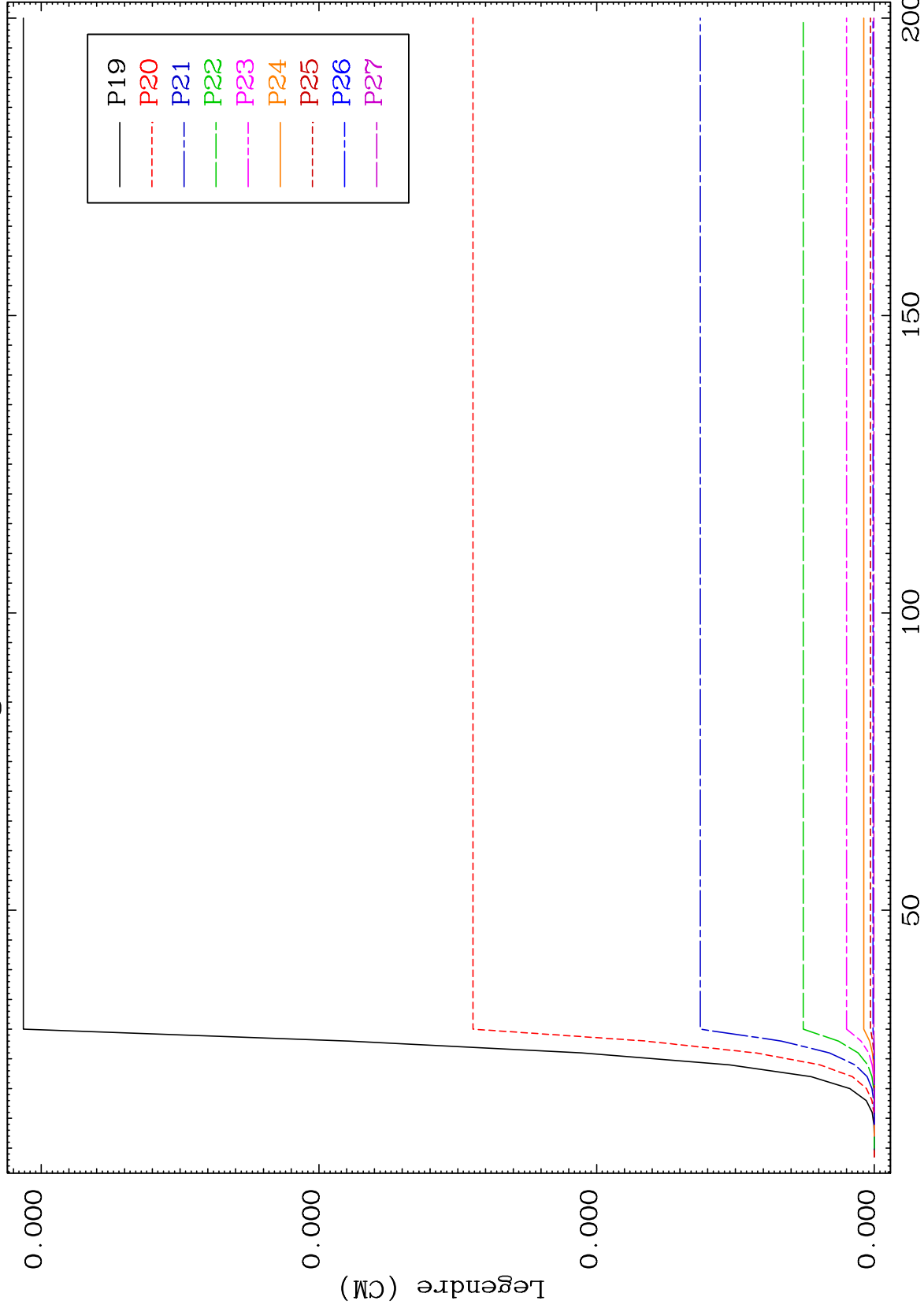
Incident Energy (MeV)

43-Tc-91

MAT 4301

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

43-Tc-91



76

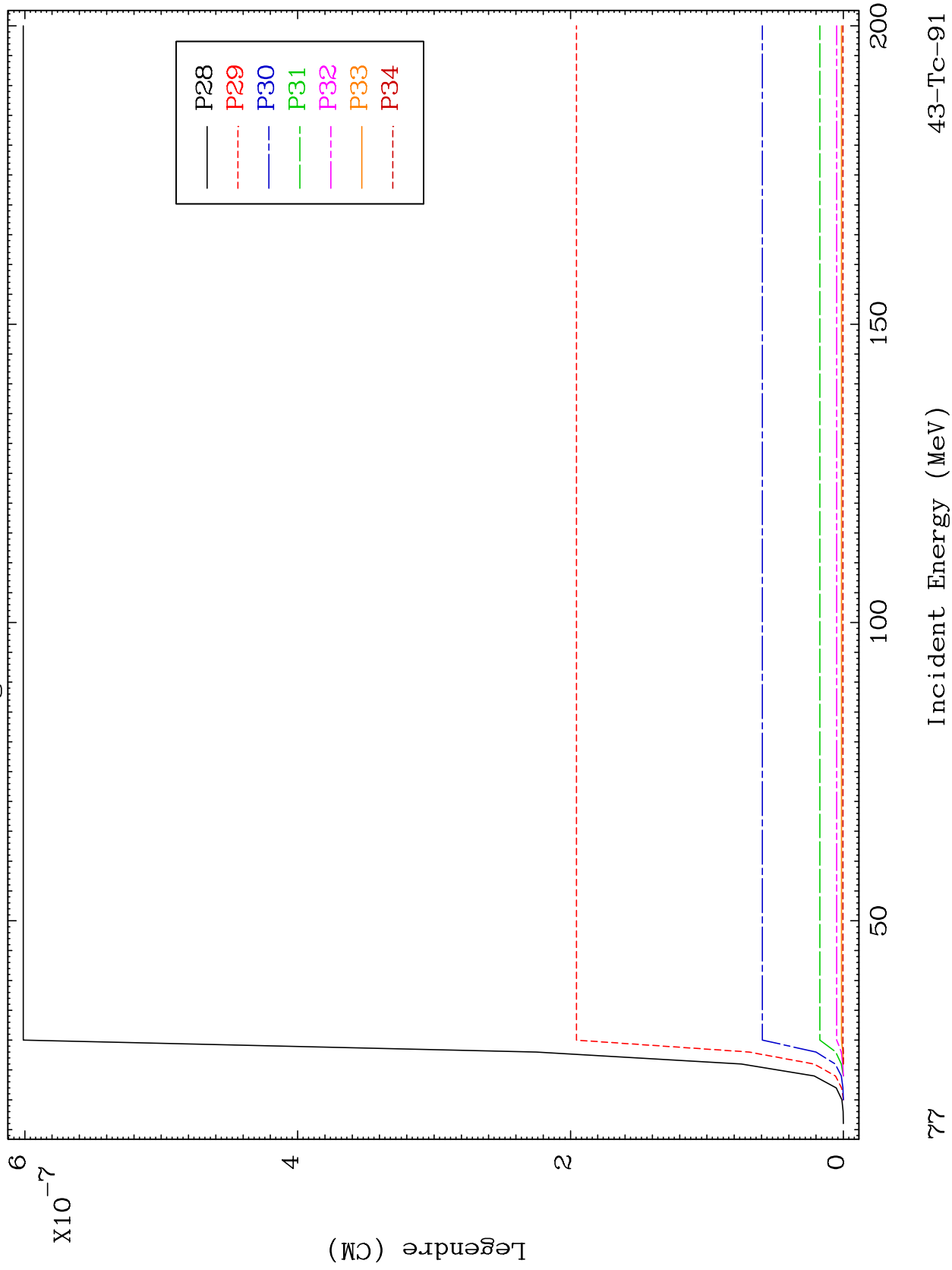
Incident Energy (MeV)

43-Tc-91

MAT 4301

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

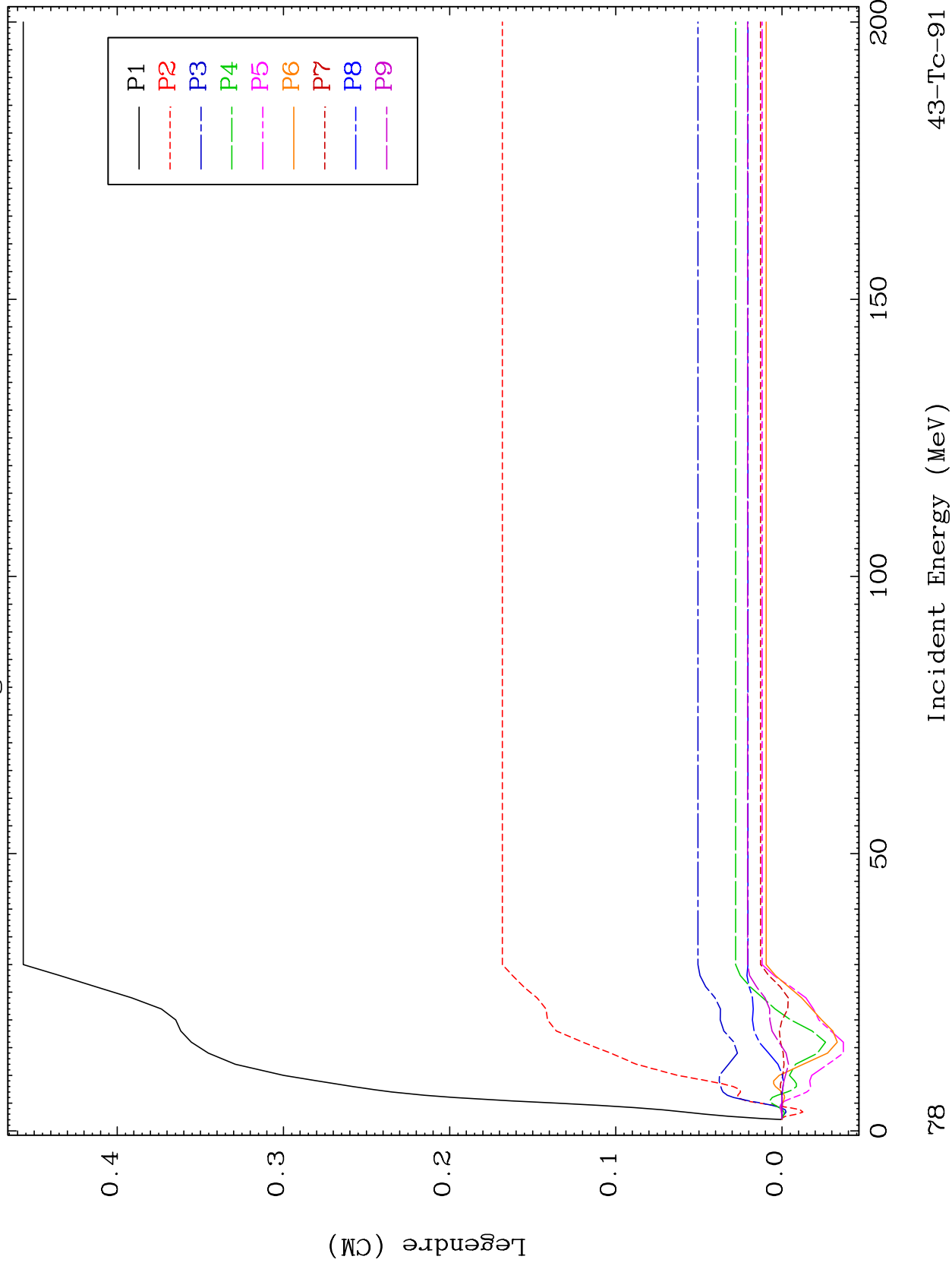
43-Tc-91



MAT 4301

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

43-Tc-91



78

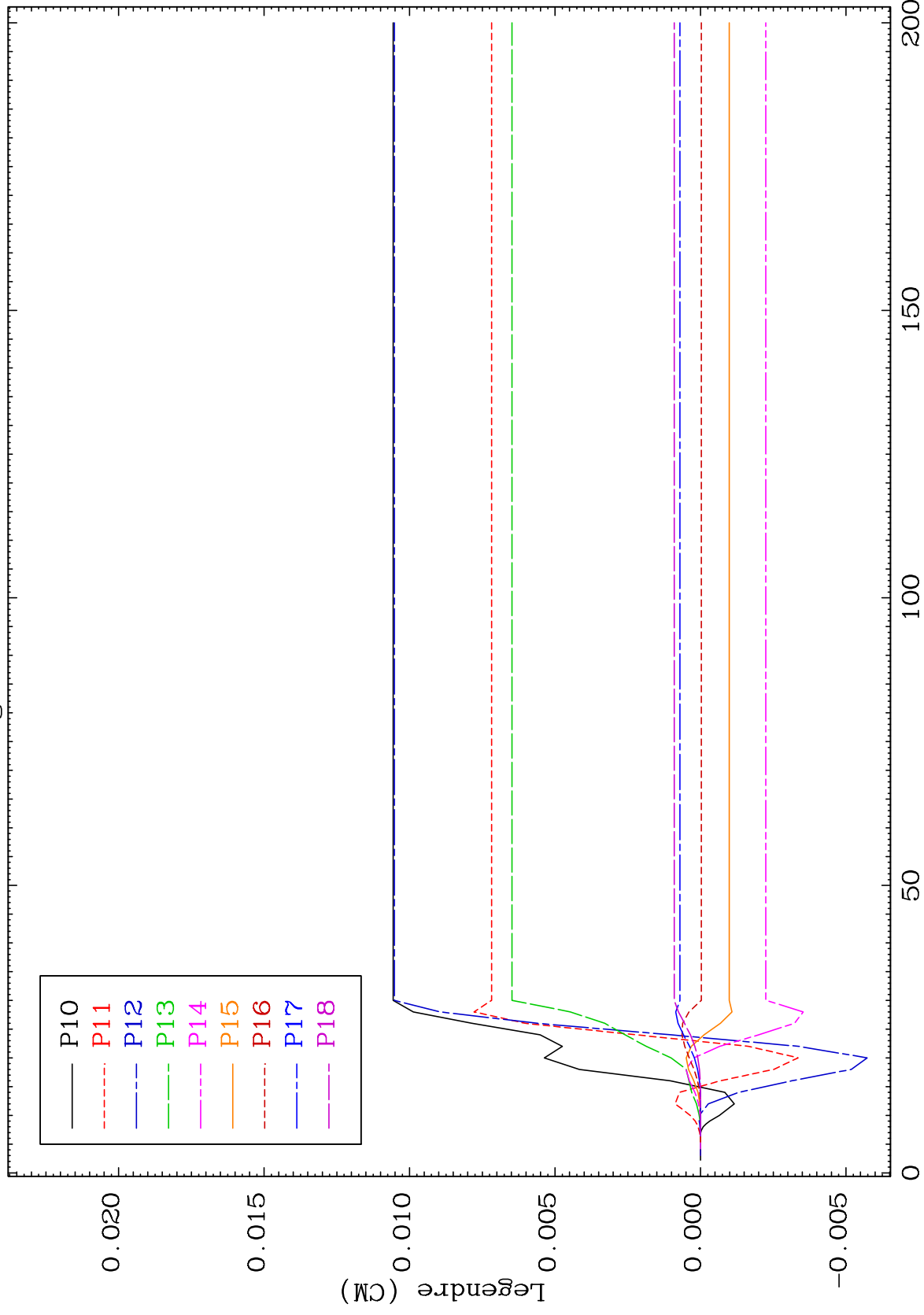
Incident Energy (MeV)

43-Tc-91

MAT 4301

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

43-Tc-91



79

Incident Energy (MeV)

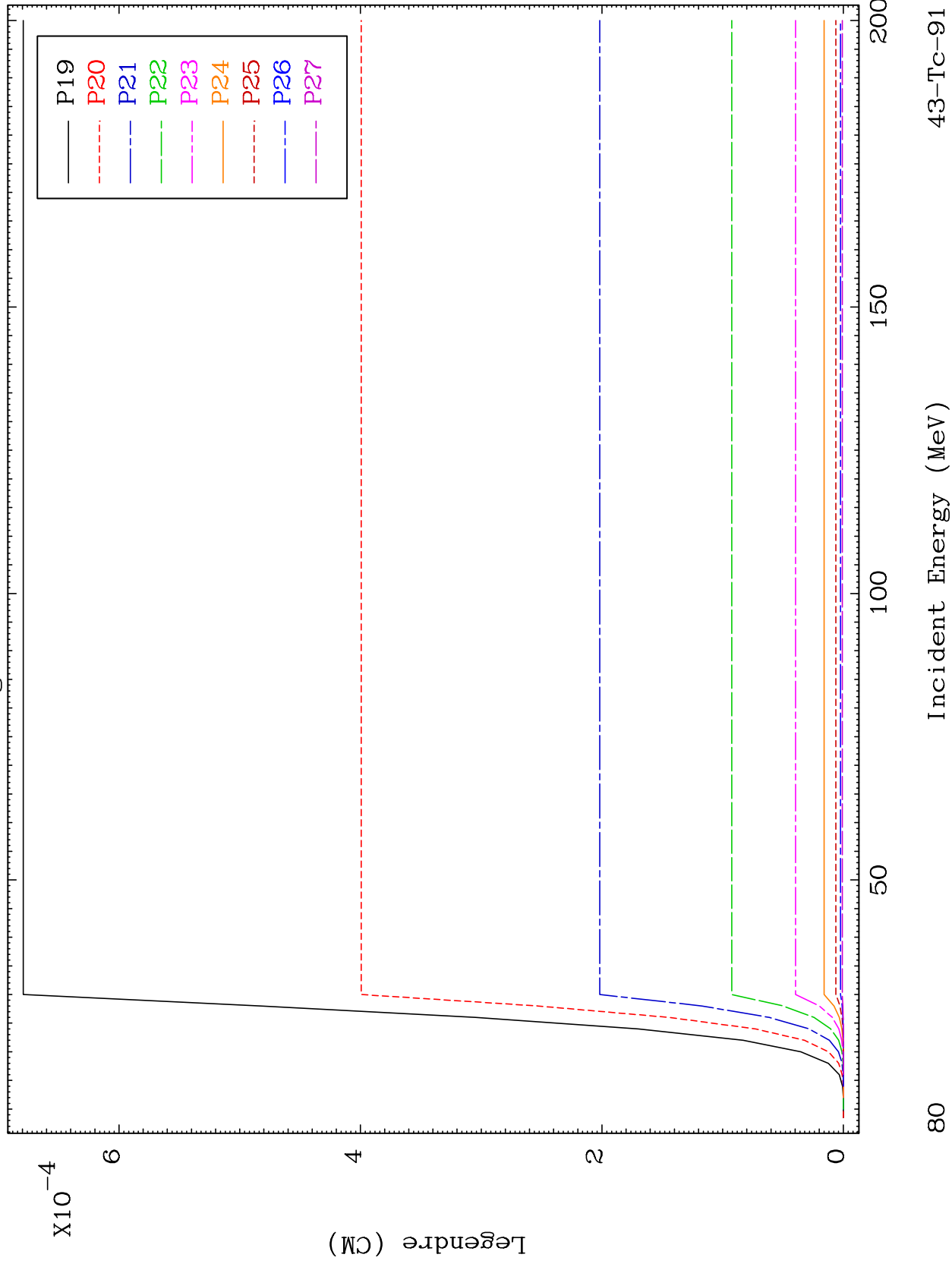
43-Tc-91



MAT 4301

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

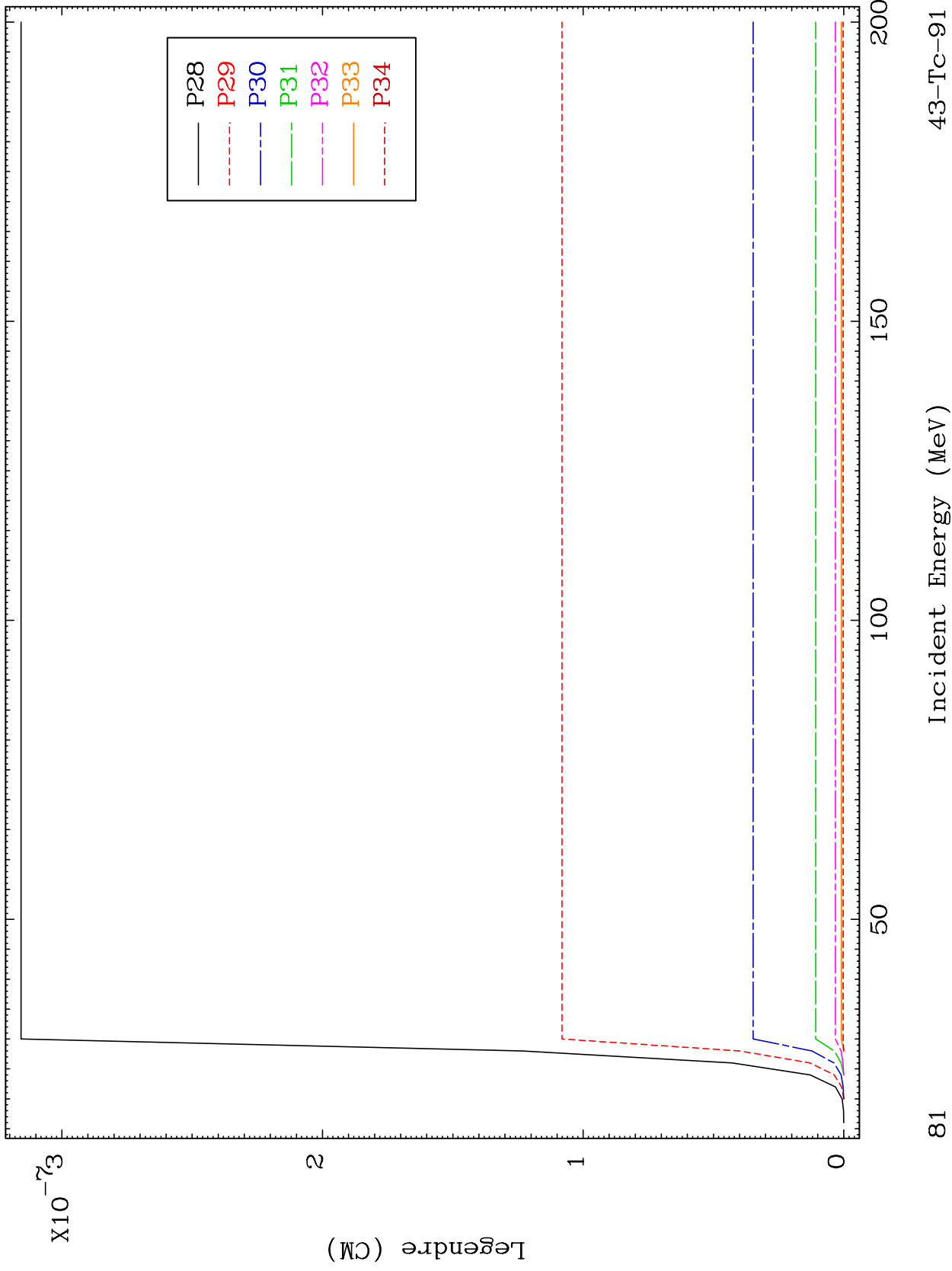
43-Tc-91



MAT 4301

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

43-Tc-91



81

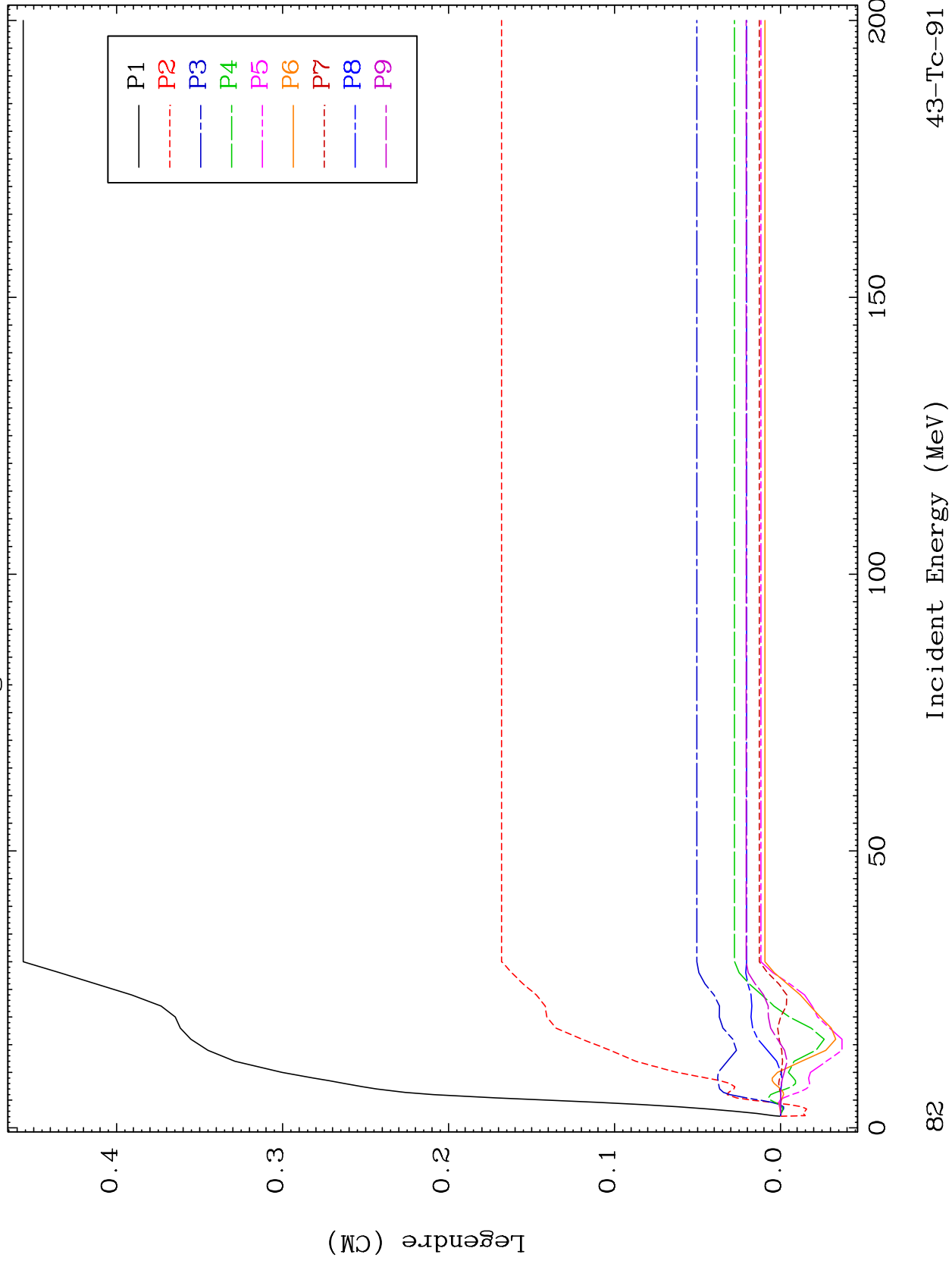
Incident Energy (MeV)

43-Tc-91

MAT 4301

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

43-Tc-91



82

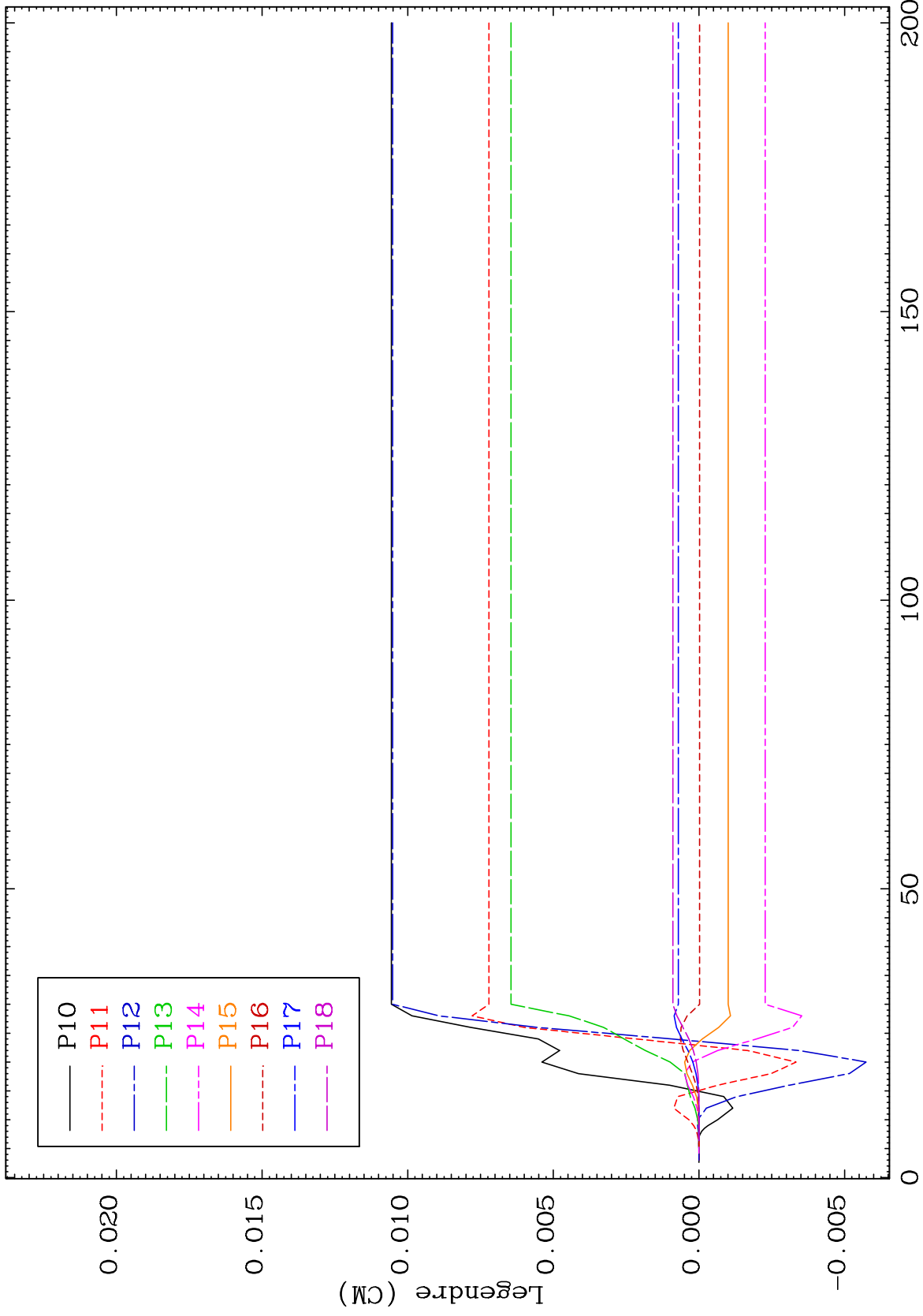
Incident Energy (MeV)

43-Tc-91

MAT 4301

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

43-Tc-91



83

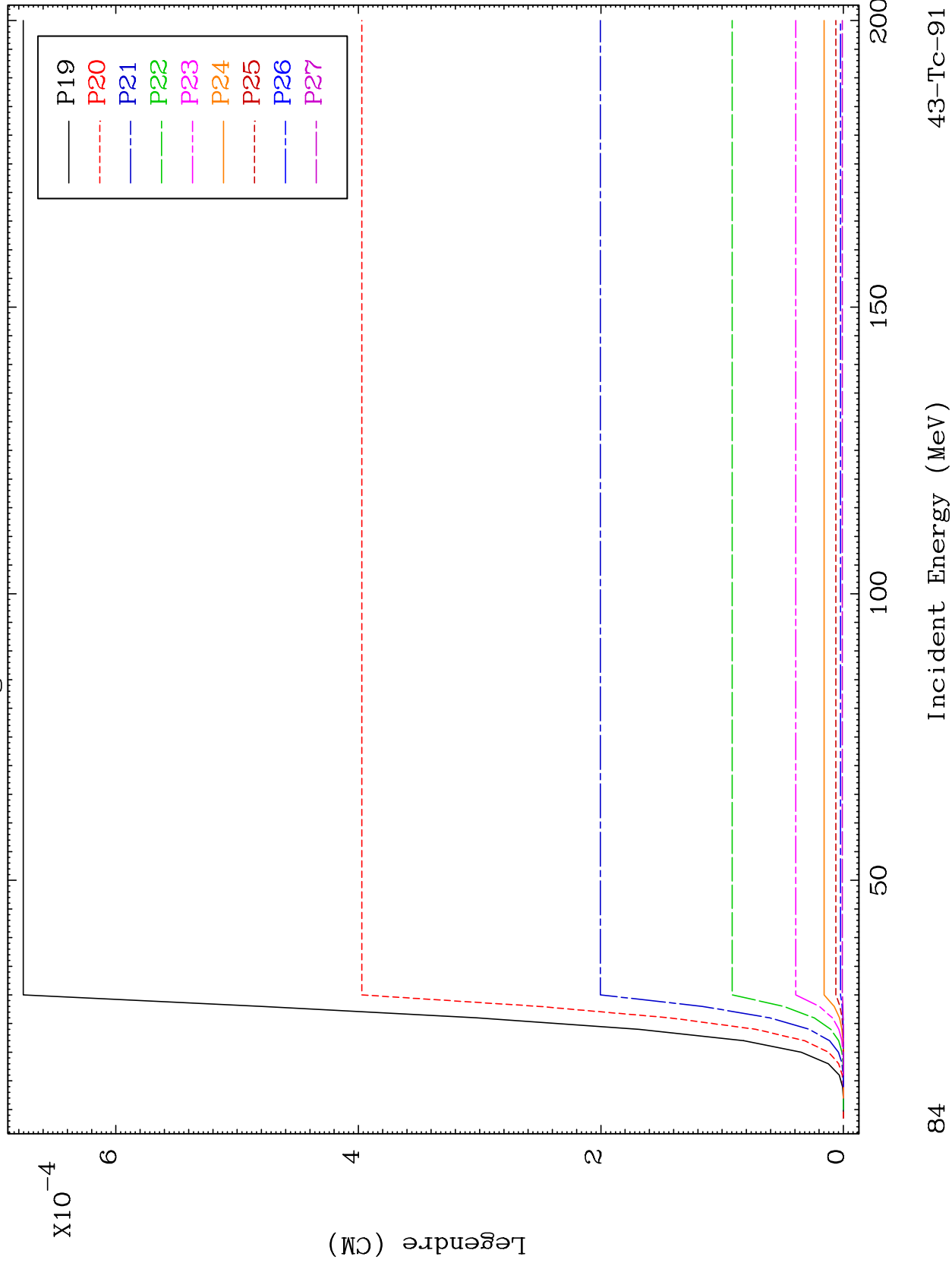
Incident Energy (MeV)

43-Tc-91

MAT 4301

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

43-Tc-91



84

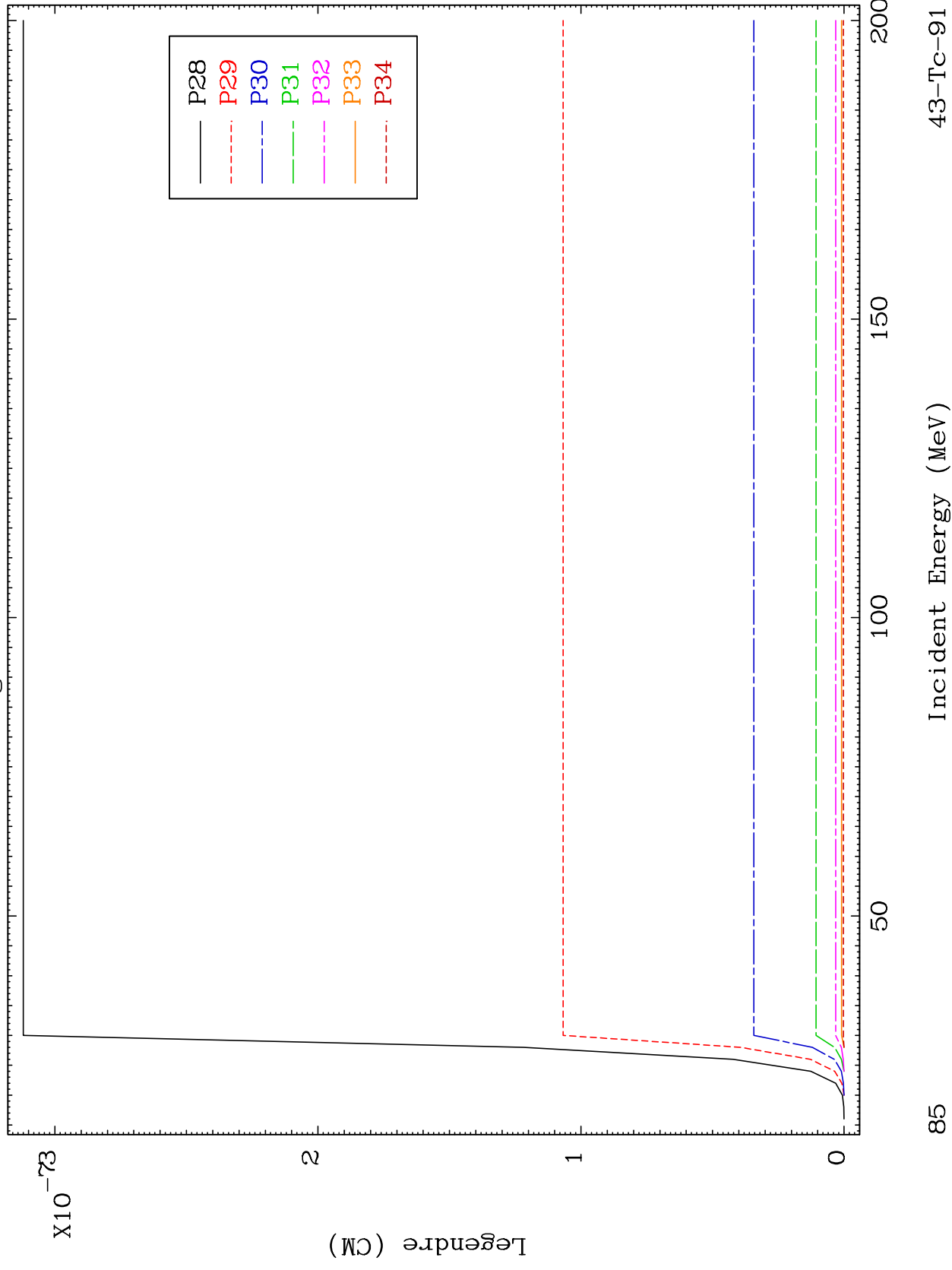
Incident Energy (MeV)

43-Tc-91

MAT 4301

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

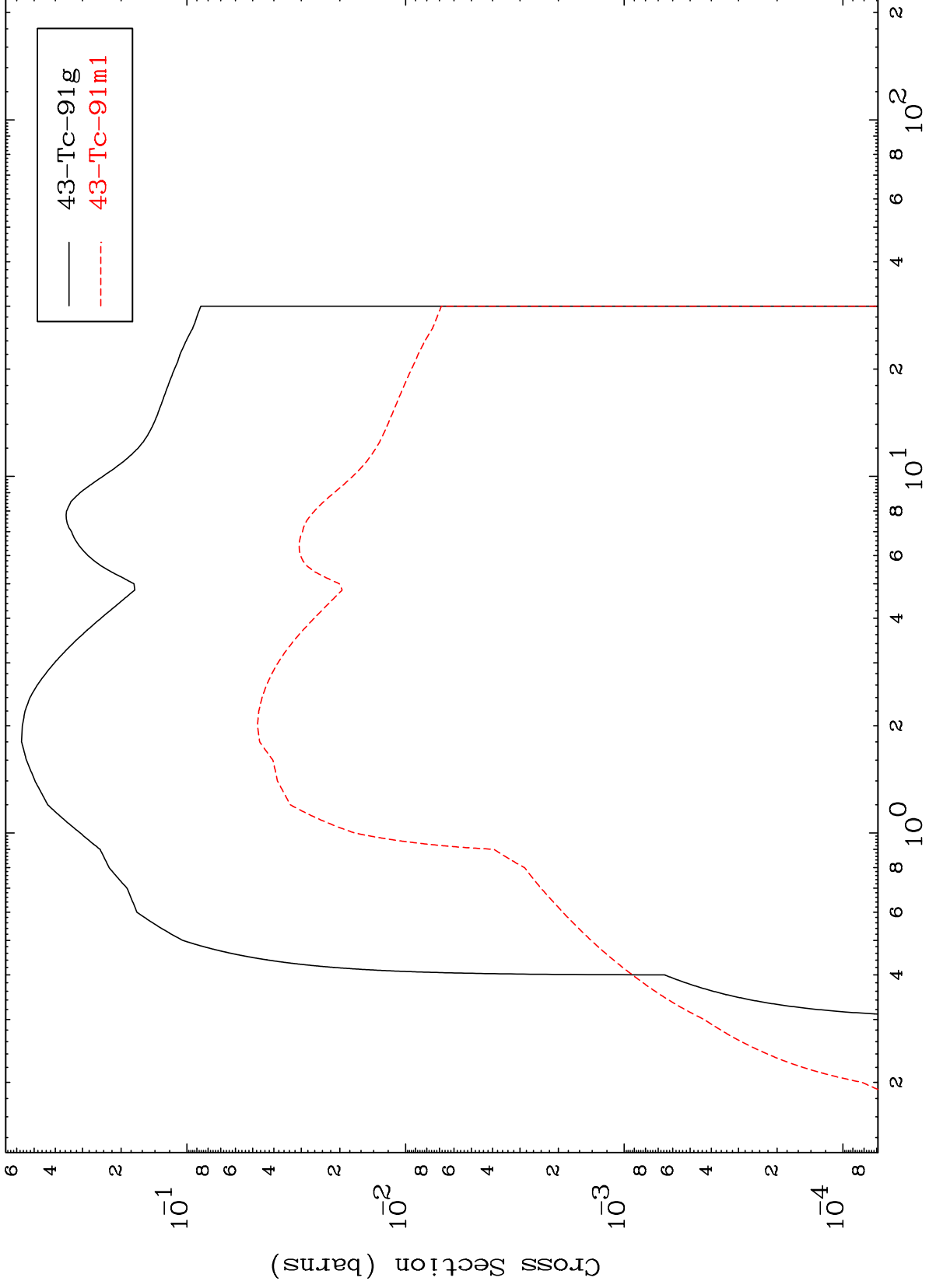
43-Tc-91



MAT 4301

43-Tc-91

Inelastic  
Radionuclide Production Cross Section



86

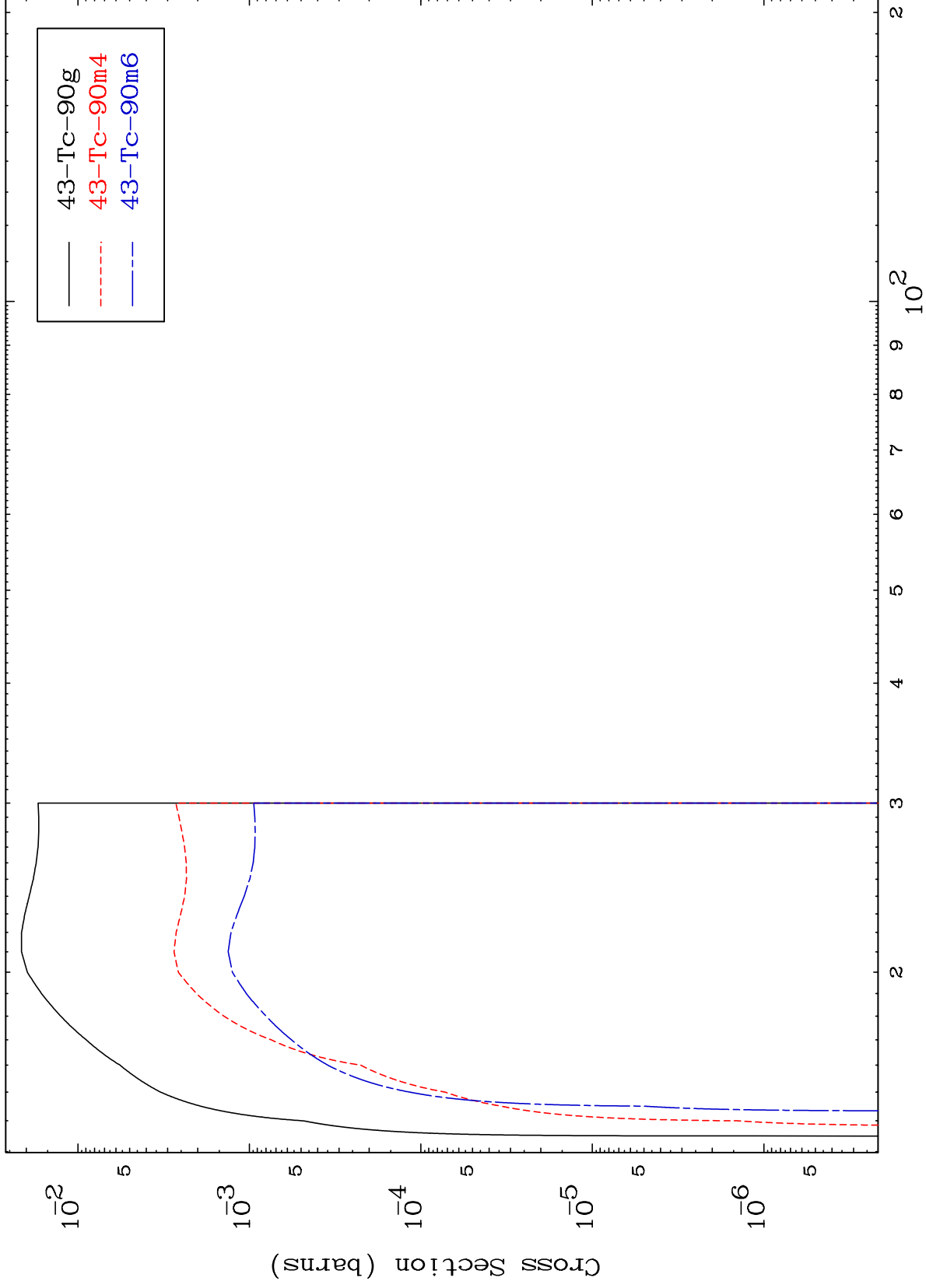
Incident Energy (MeV)

43-Tc-91

MAT 4301

43-Tc-91

(n,2n)  
Radionuclide Production Cross Section



87

Incident Energy (MeV)

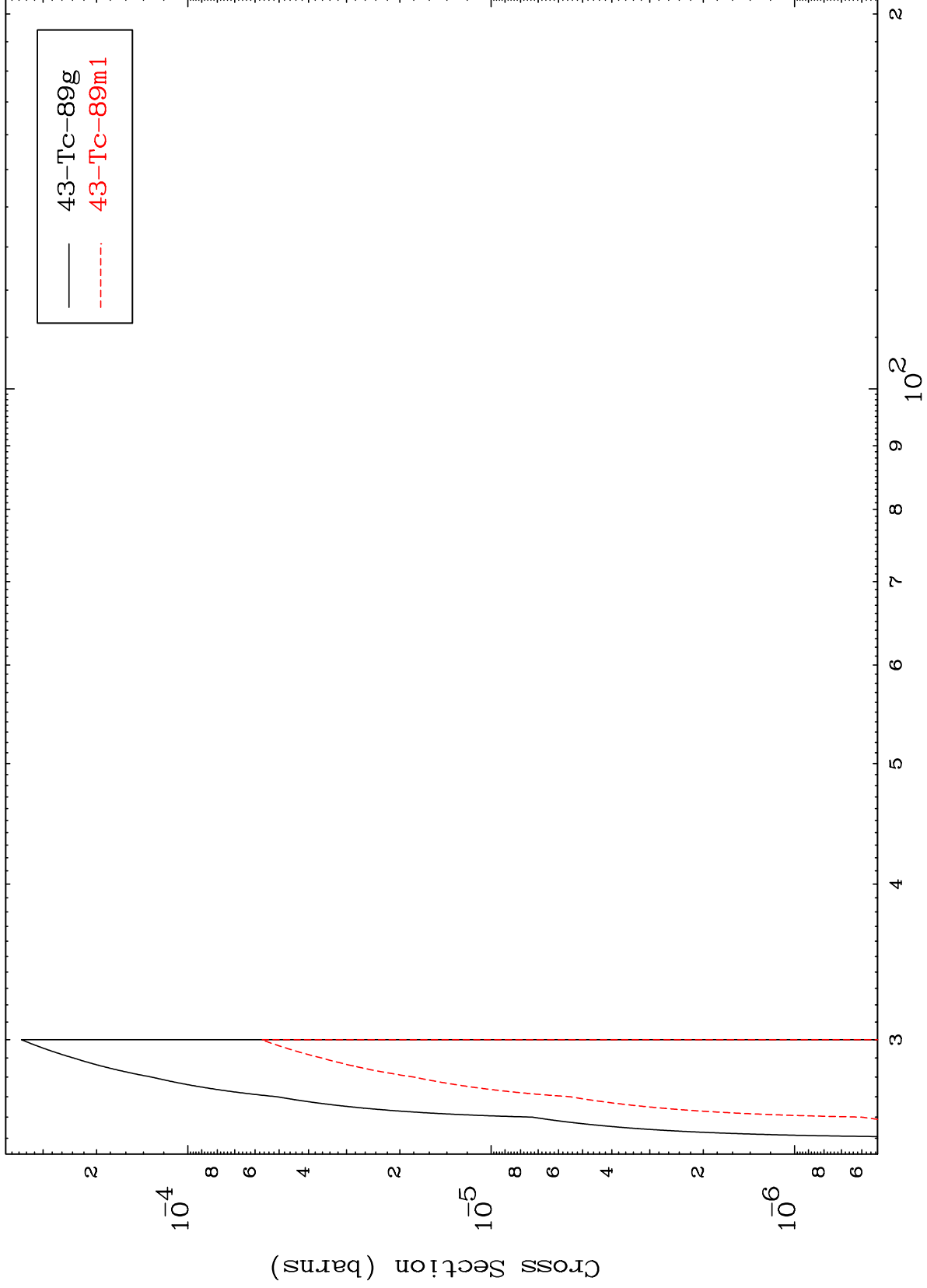
43-Tc-91



MAT 4301

43-Tc-91

(n,3n)  
Radionuclide Production Cross Section



88

43-Tc-91

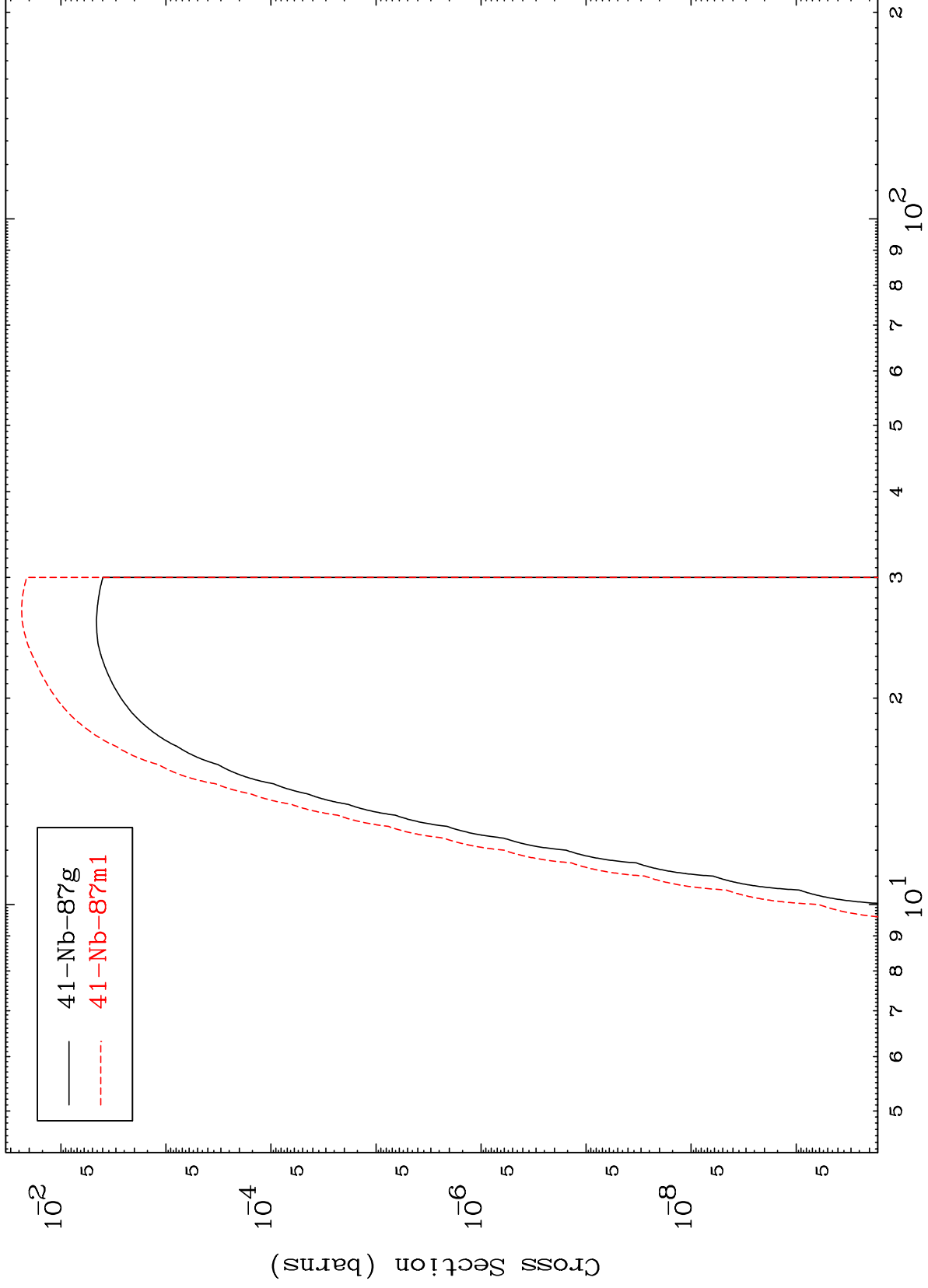
Incident Energy (MeV)

MAT 4301

(n,n')  $\alpha$

43-Tc-91

Radionuclide Production Cross Section



89

Incident Energy (MeV)

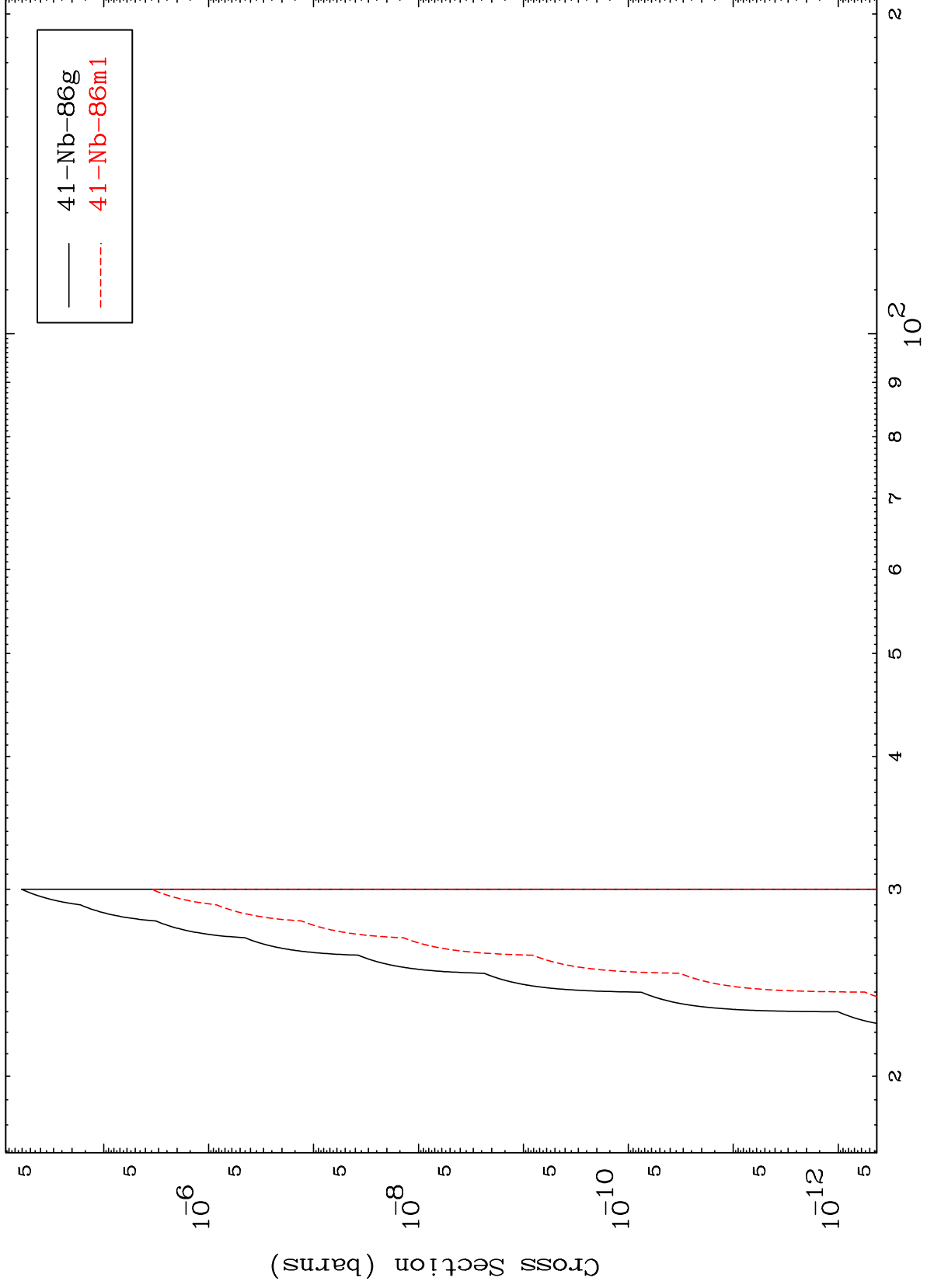
43-Tc-91

MAT 4301

(n,2n)  $\alpha$

43-Tc-91

Radionuclide Production Cross Section



90

Incident Energy (MeV)

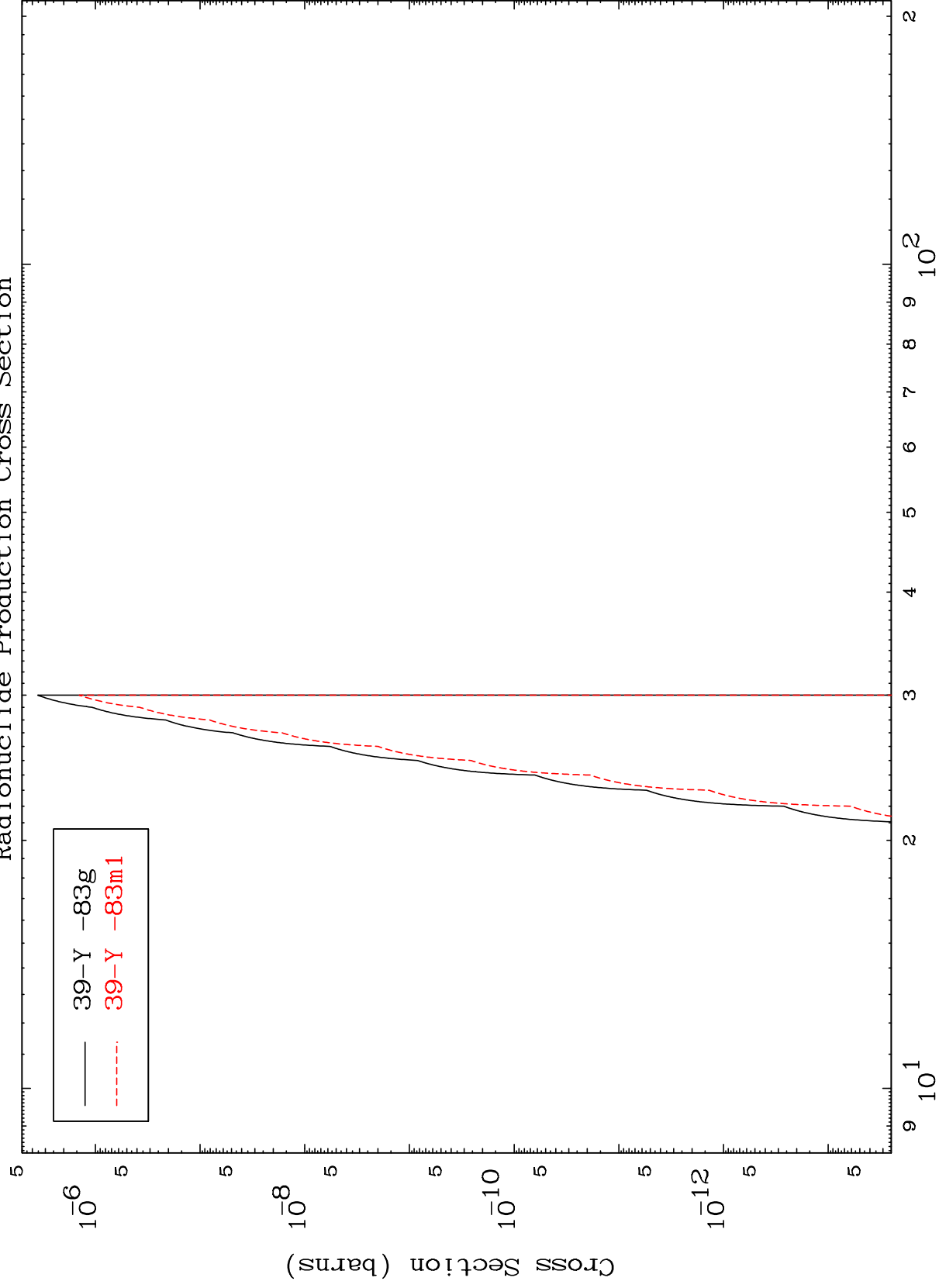
43-Tc-91

MAT 4301

(n,n') 2α

43-Tc-91

Radionuclide Production Cross Section

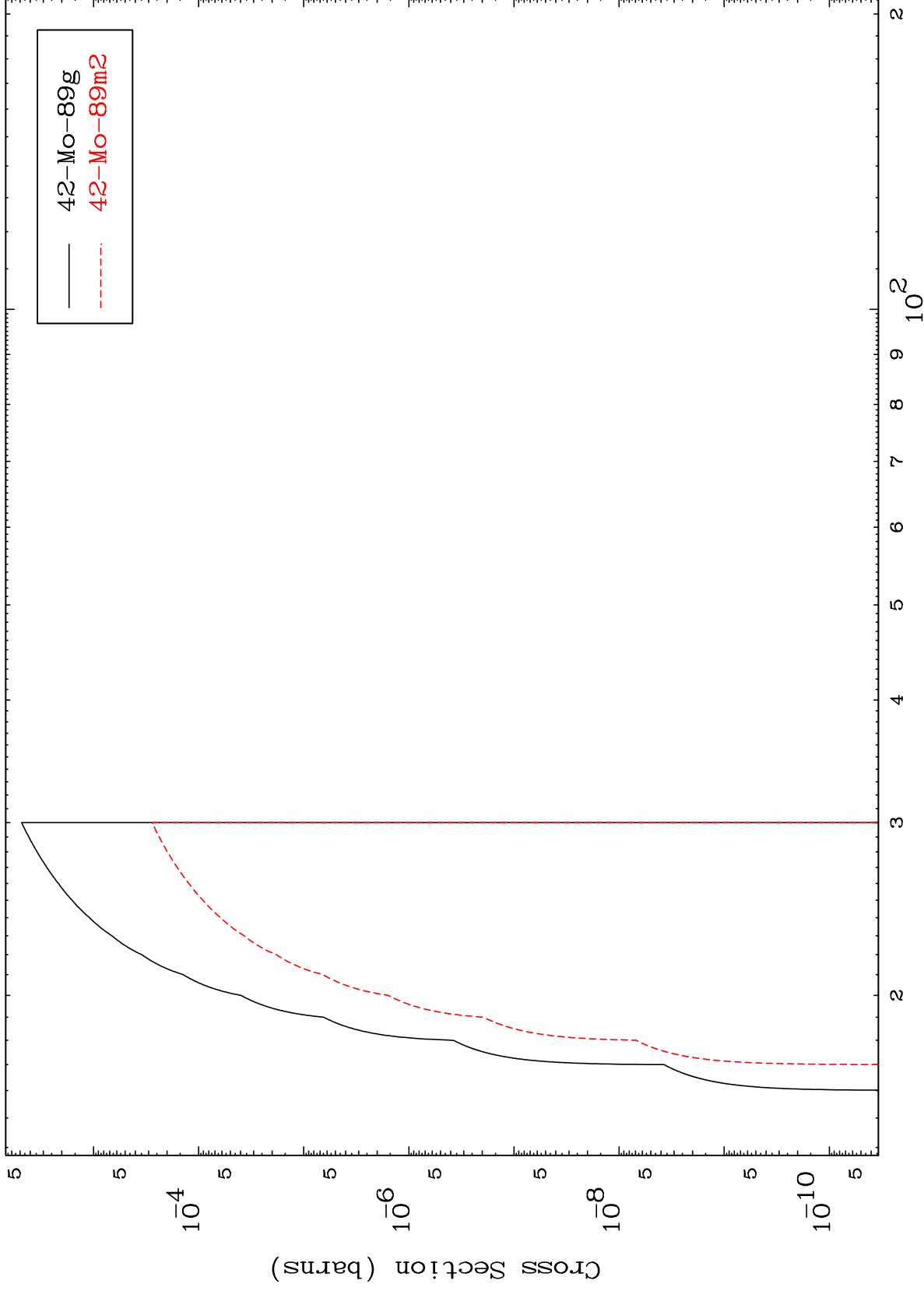


91

Incident Energy (MeV)

43-Tc-91

Radionuclide Production Cross Section

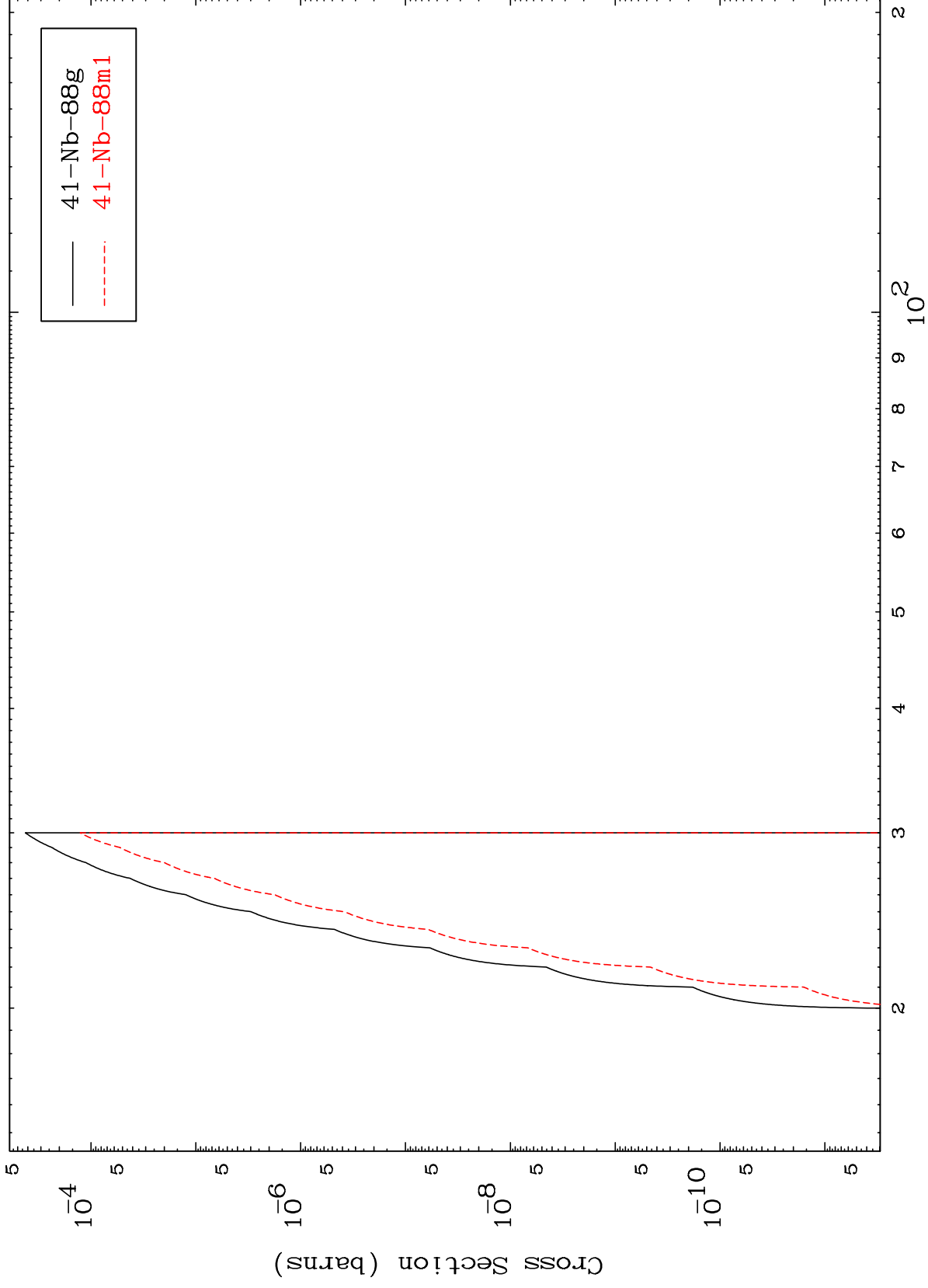


MAT 4301

(n,n') He-3

43-Tc-91

Radionuclide Production Cross Section

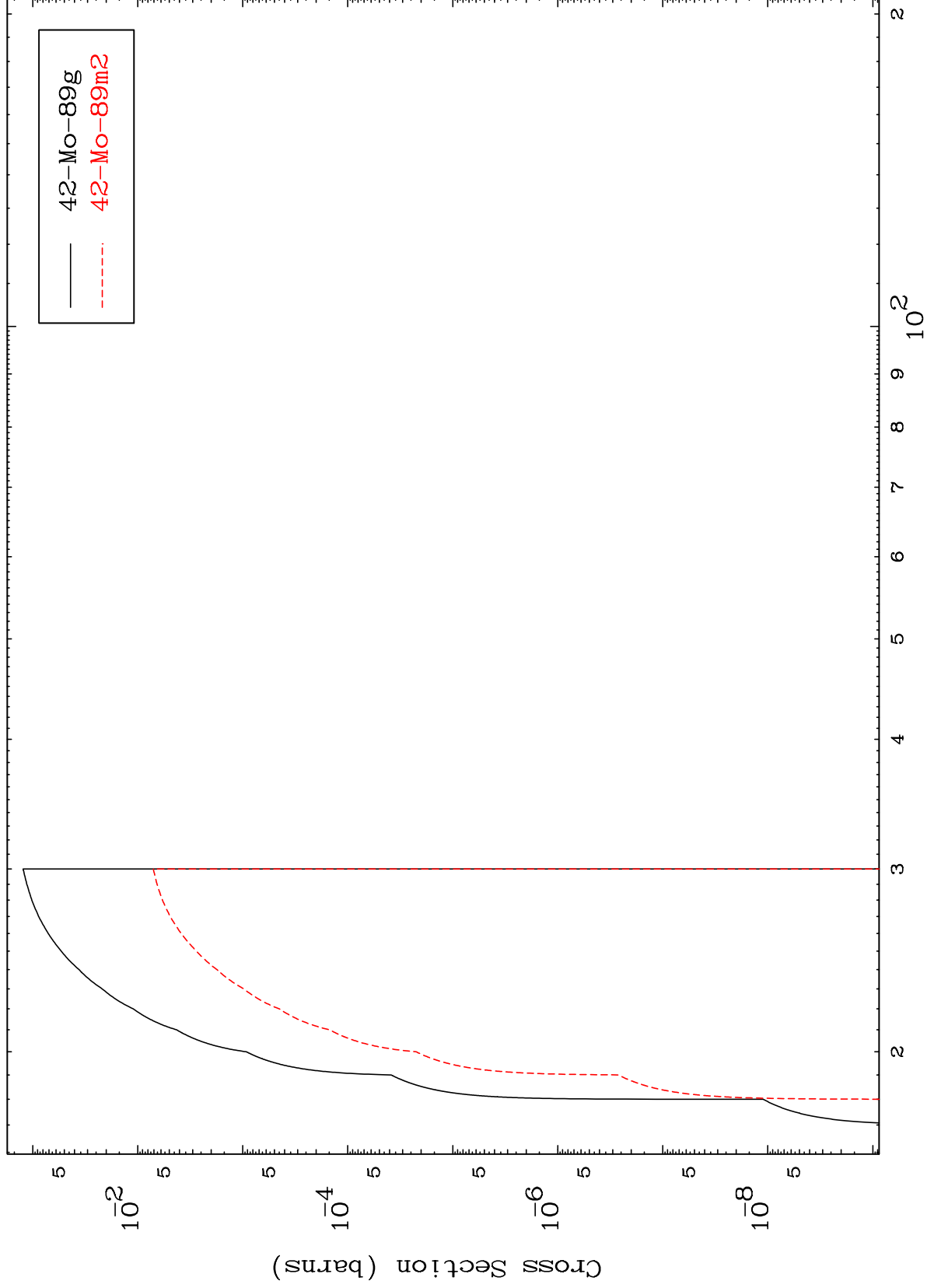


93

Incident Energy (MeV)

43-Tc-91

Radionuclide Production Cross Section

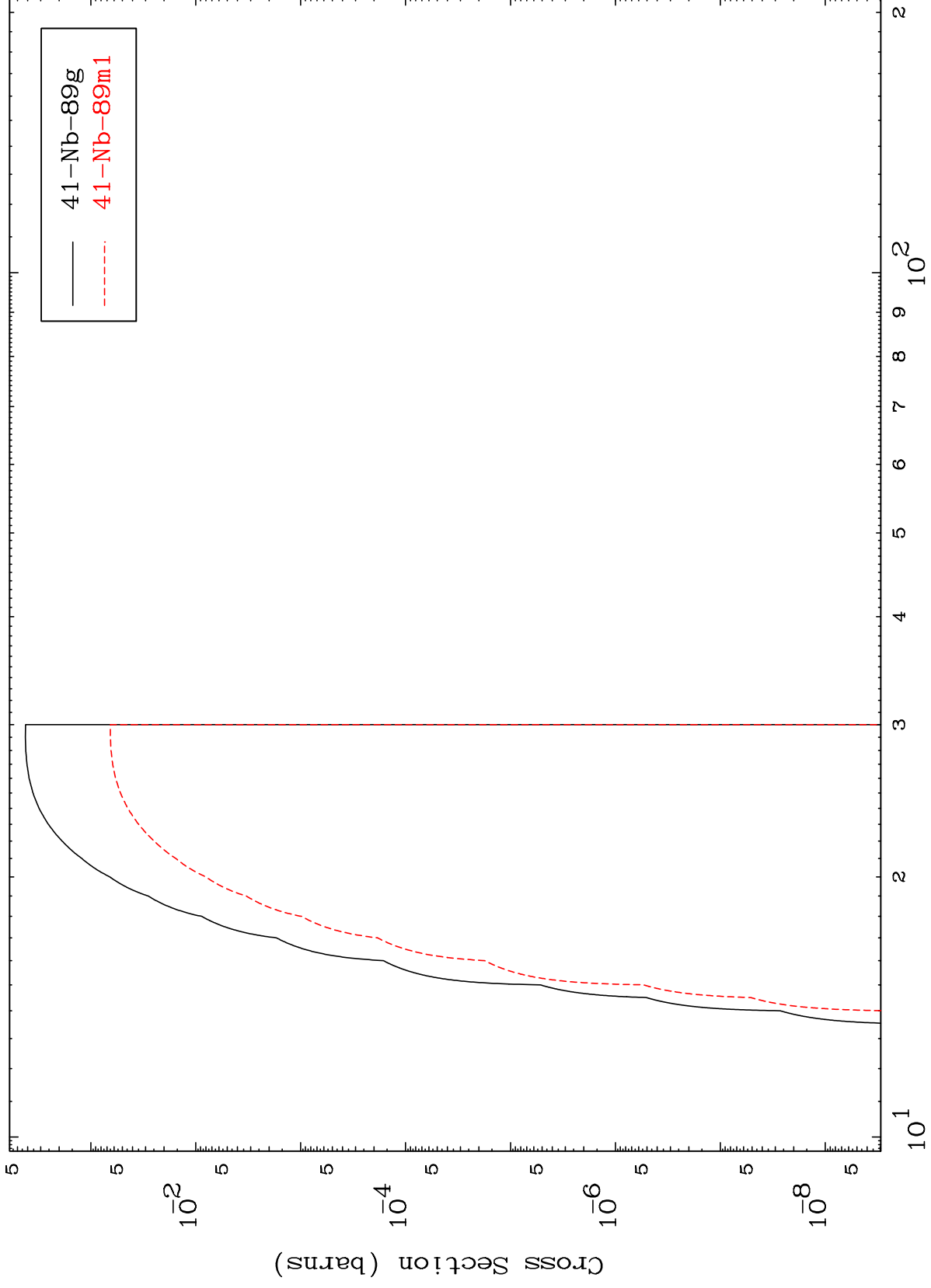


MAT 4301

(n,2n) p

43-Tc-91

Radionuclide Production Cross Section



95

Incident Energy (MeV)

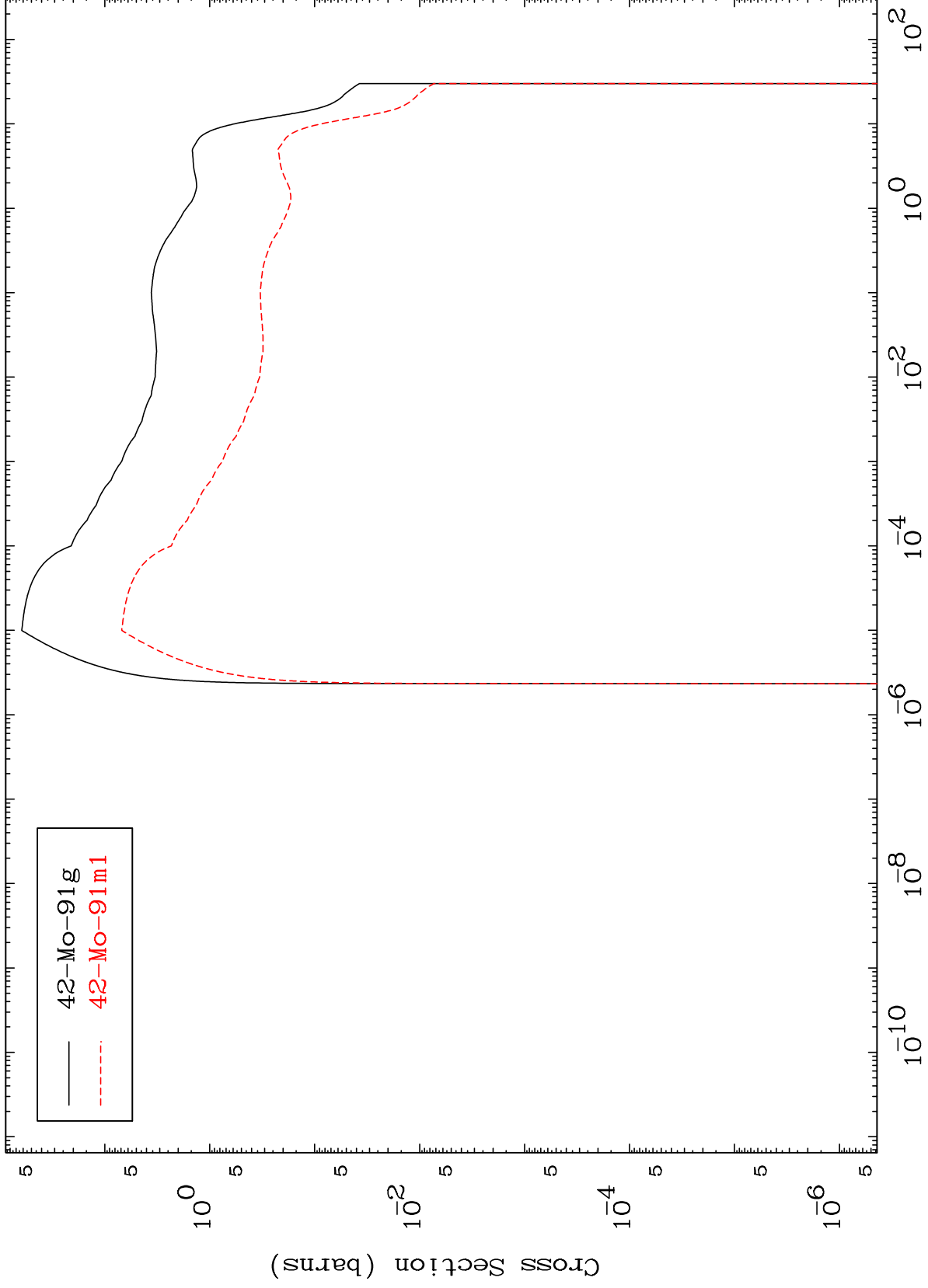
43-Tc-91



MAT 4301

43-Tc-91

(n,p)  
Radionuclide Production Cross Section



96

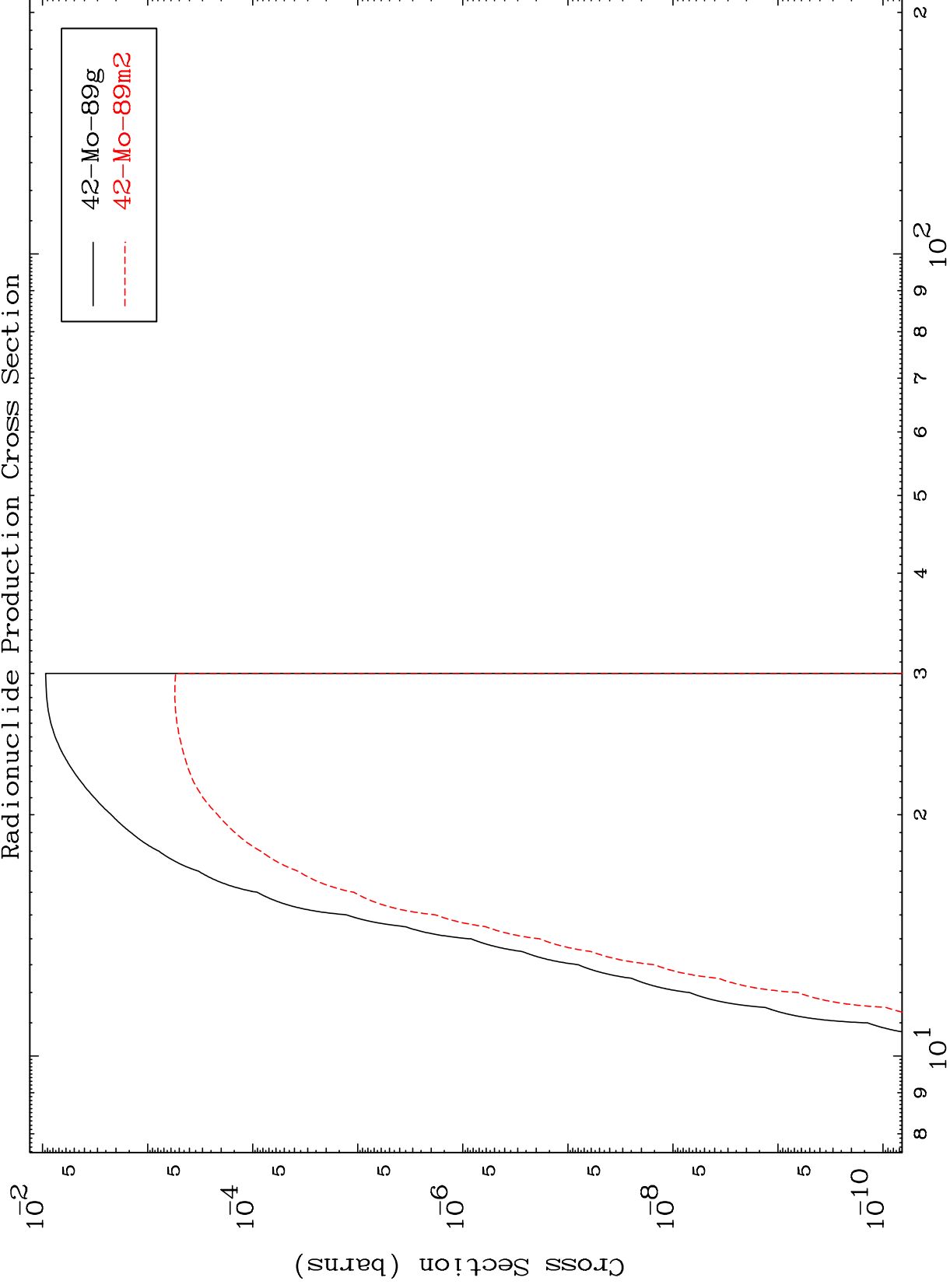
43-Tc-91

MAT 4301

(n, t)

43-Tc-91

Radionuclide Production Cross Section



42-Mo-89g  
42-Mo-89m2

97

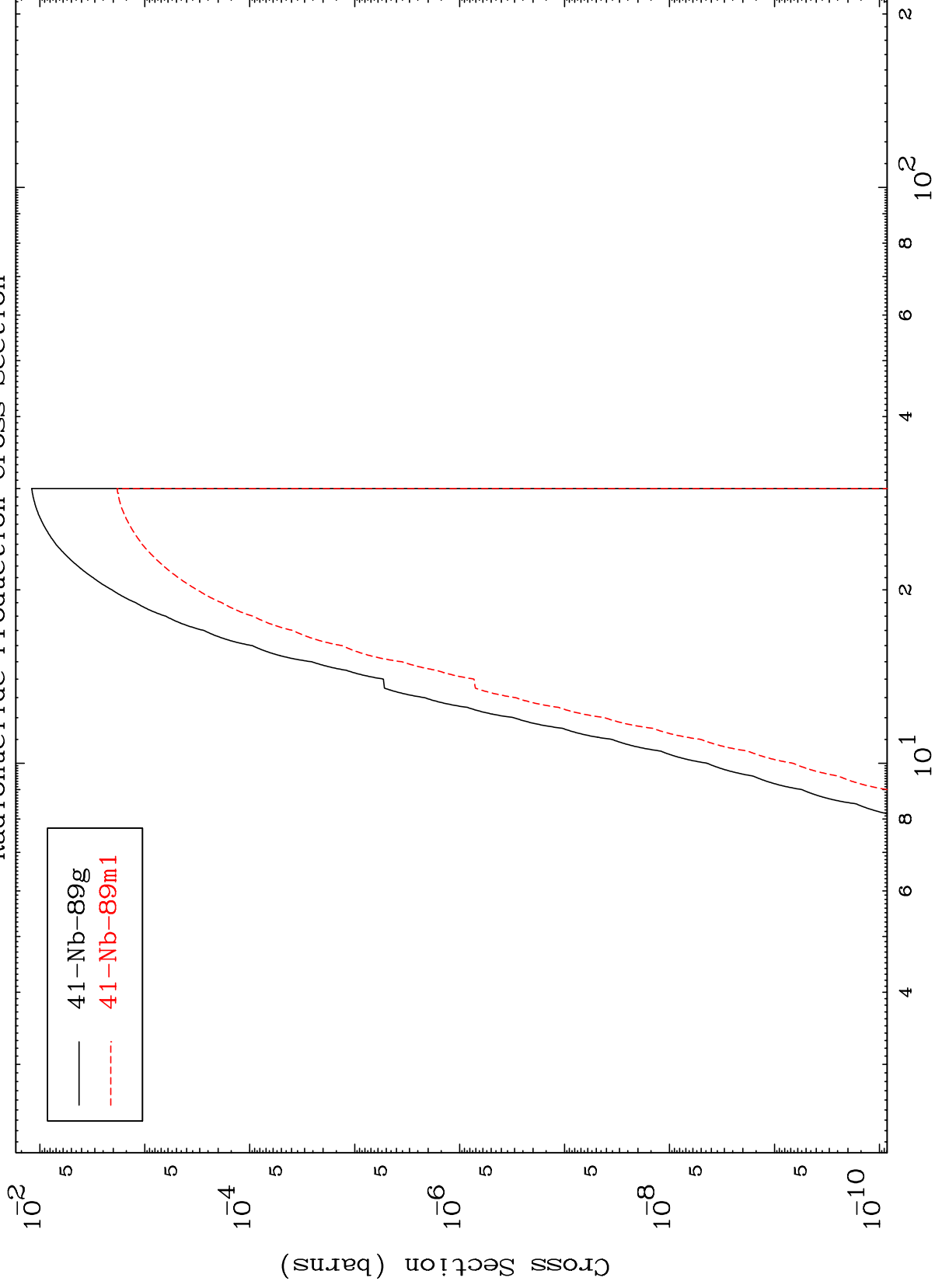
Incident Energy (MeV)

43-Tc-91

MAT 4301

43-Tc-91

Radionuclide Production Cross Section  
(n,He-3)



98

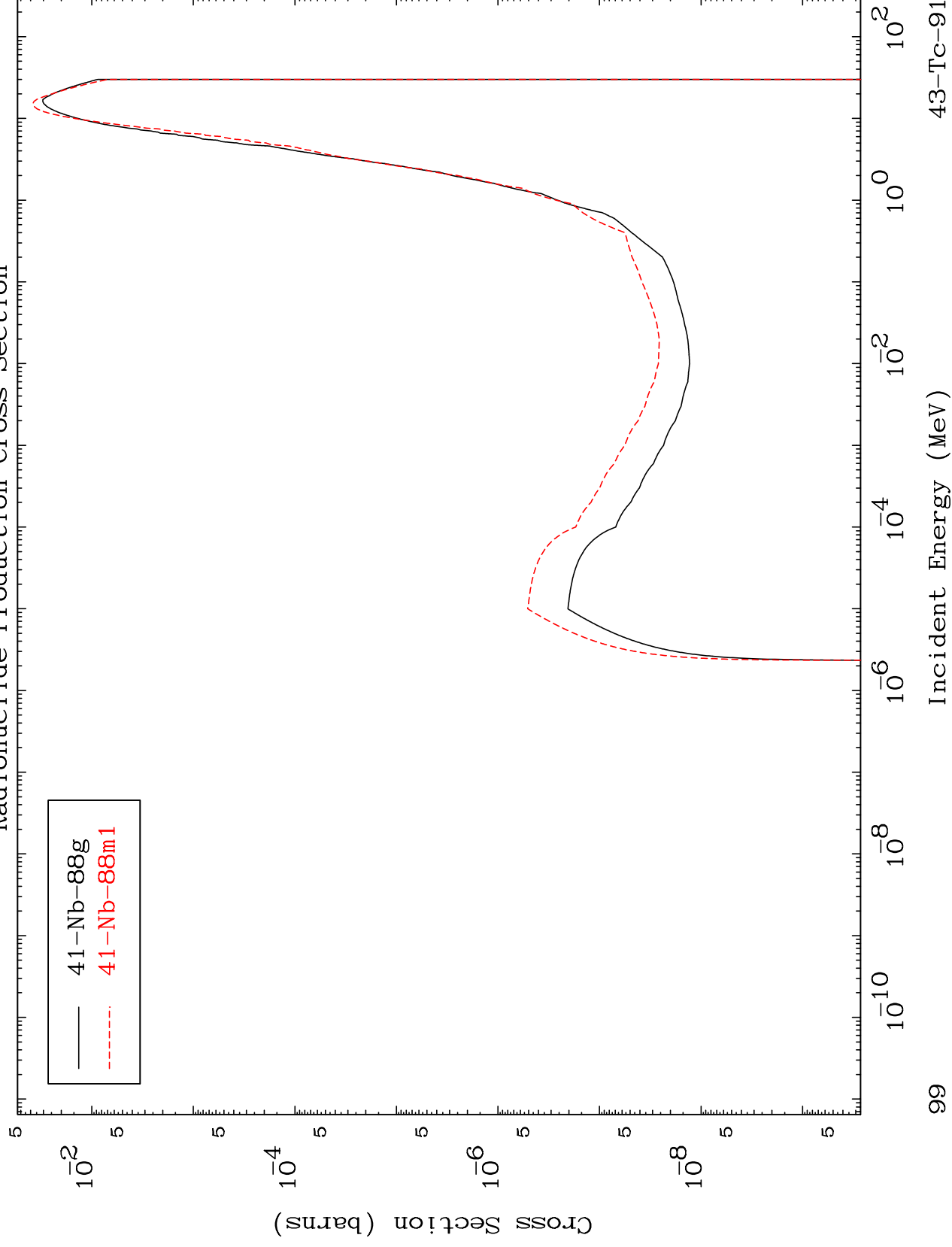
43-Tc-91

Incident Energy (MeV)

MAT 4301

43-Tc-91

(n,  $\alpha$ )  
Radionuclide Production Cross Section



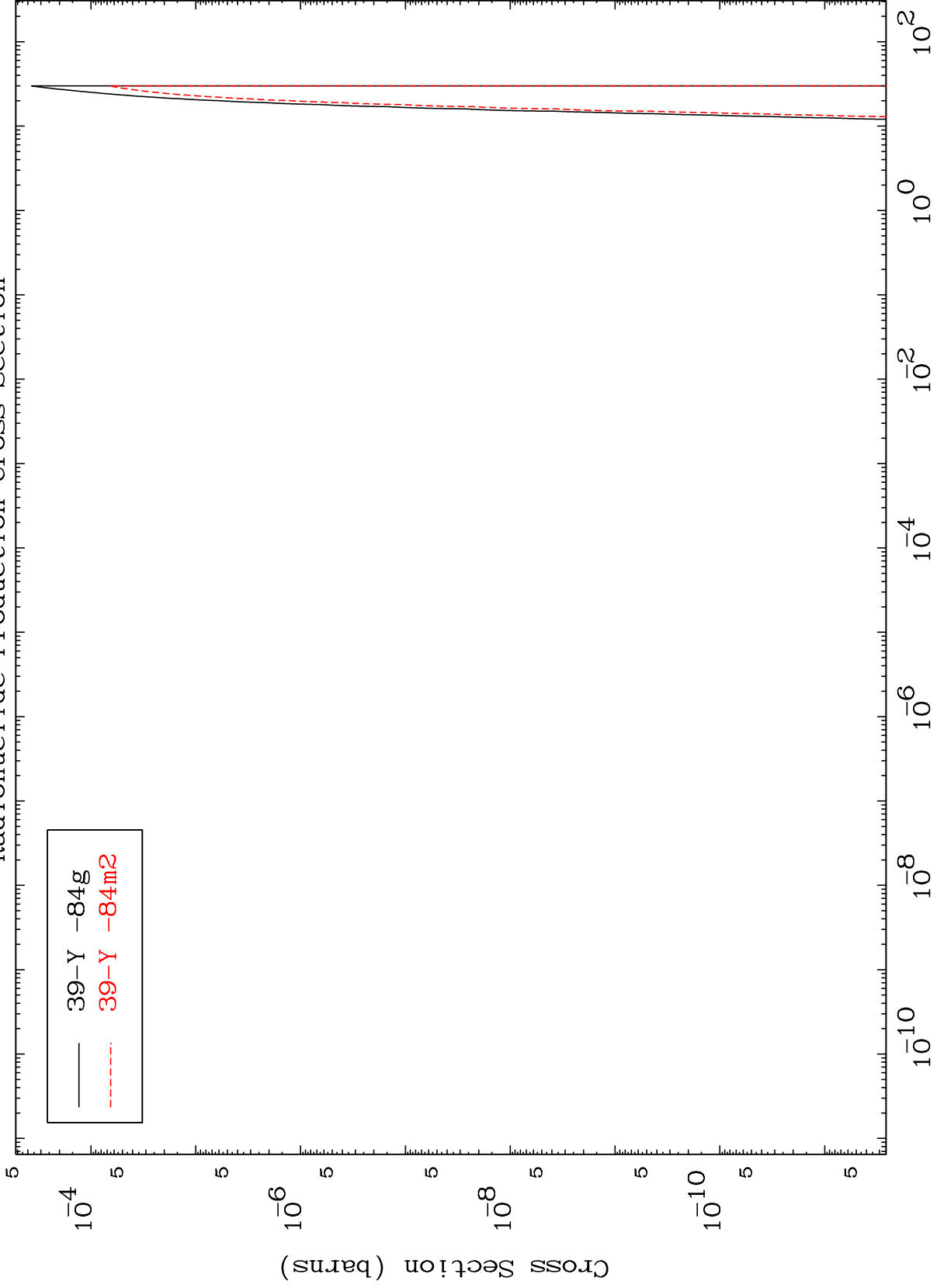
99

MAT 4301

(n,2α)

43-Tc-91

Radionuclide Production Cross Section



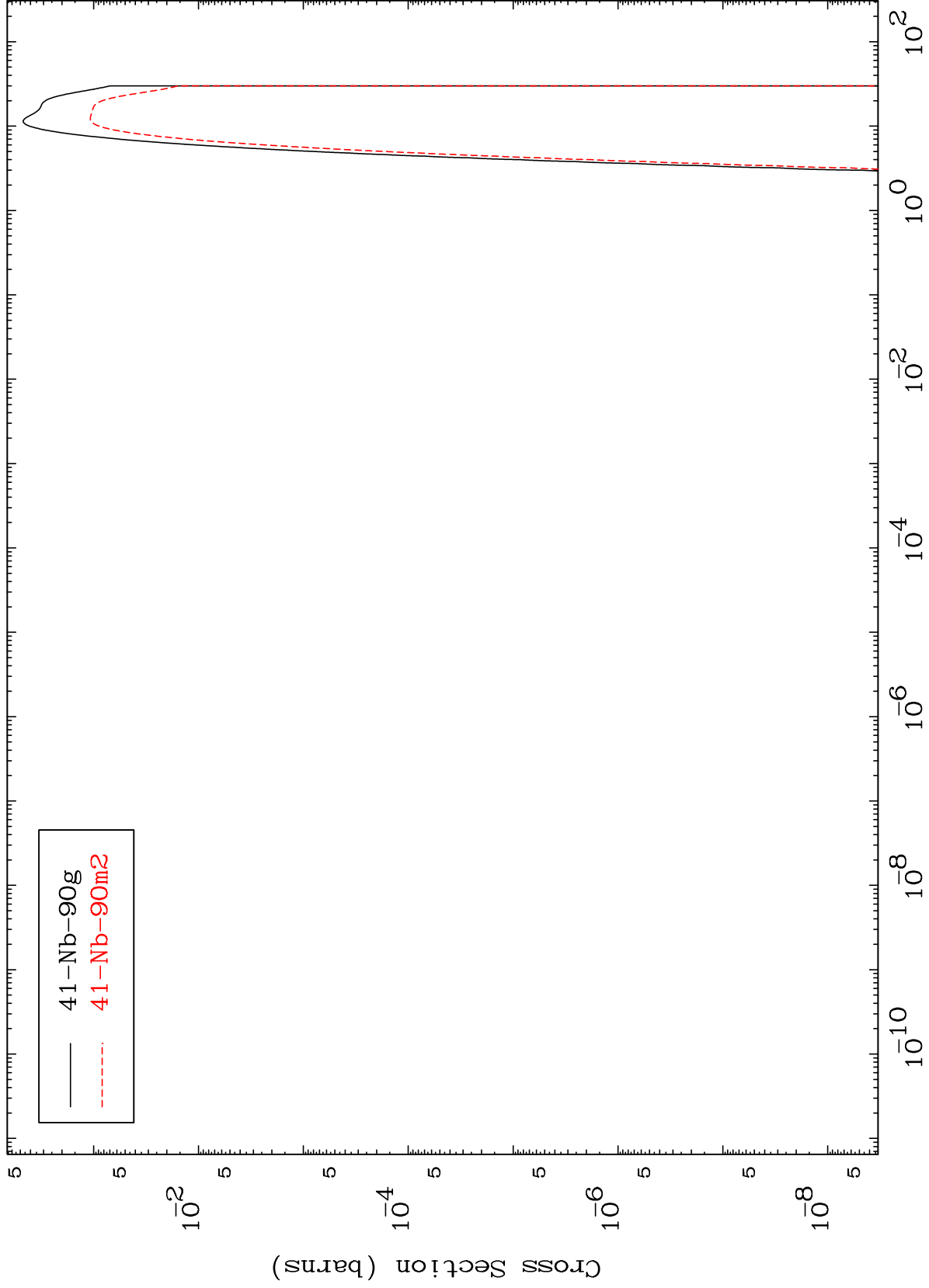
— 39-Y -84g  
- - - 39-Y -84m2

MAT 4301

(n,2p)

43-Tc-91

Radionuclide Production Cross Section



— 41-Nb-90g  
- - - 41-Nb-90m2

101

Incident Energy (MeV)

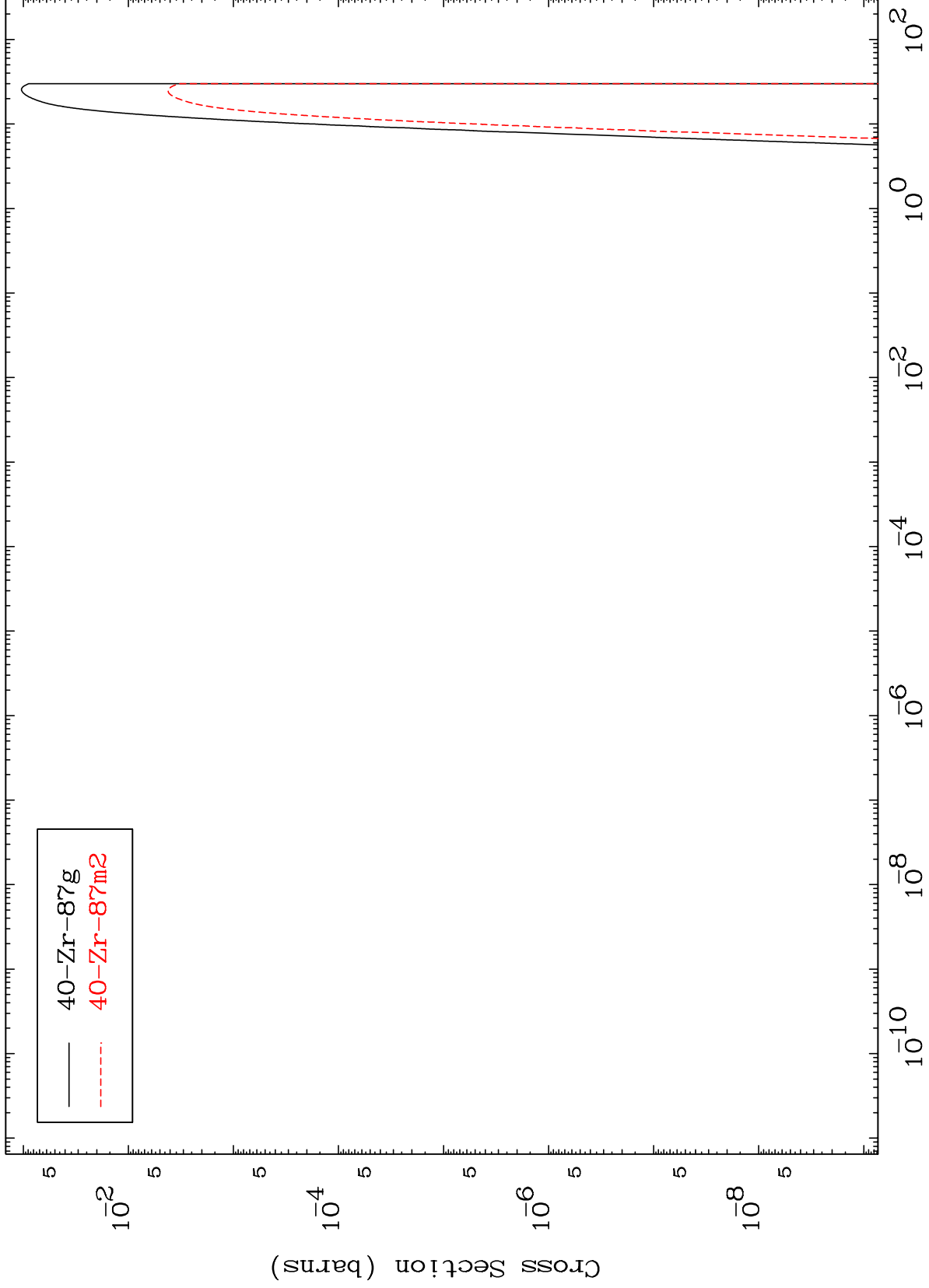
43-Tc-91

MAT 4301

(n,p)  $\alpha$

43-Tc-91

Radionuclide Production Cross Section



102

Incident Energy (MeV)

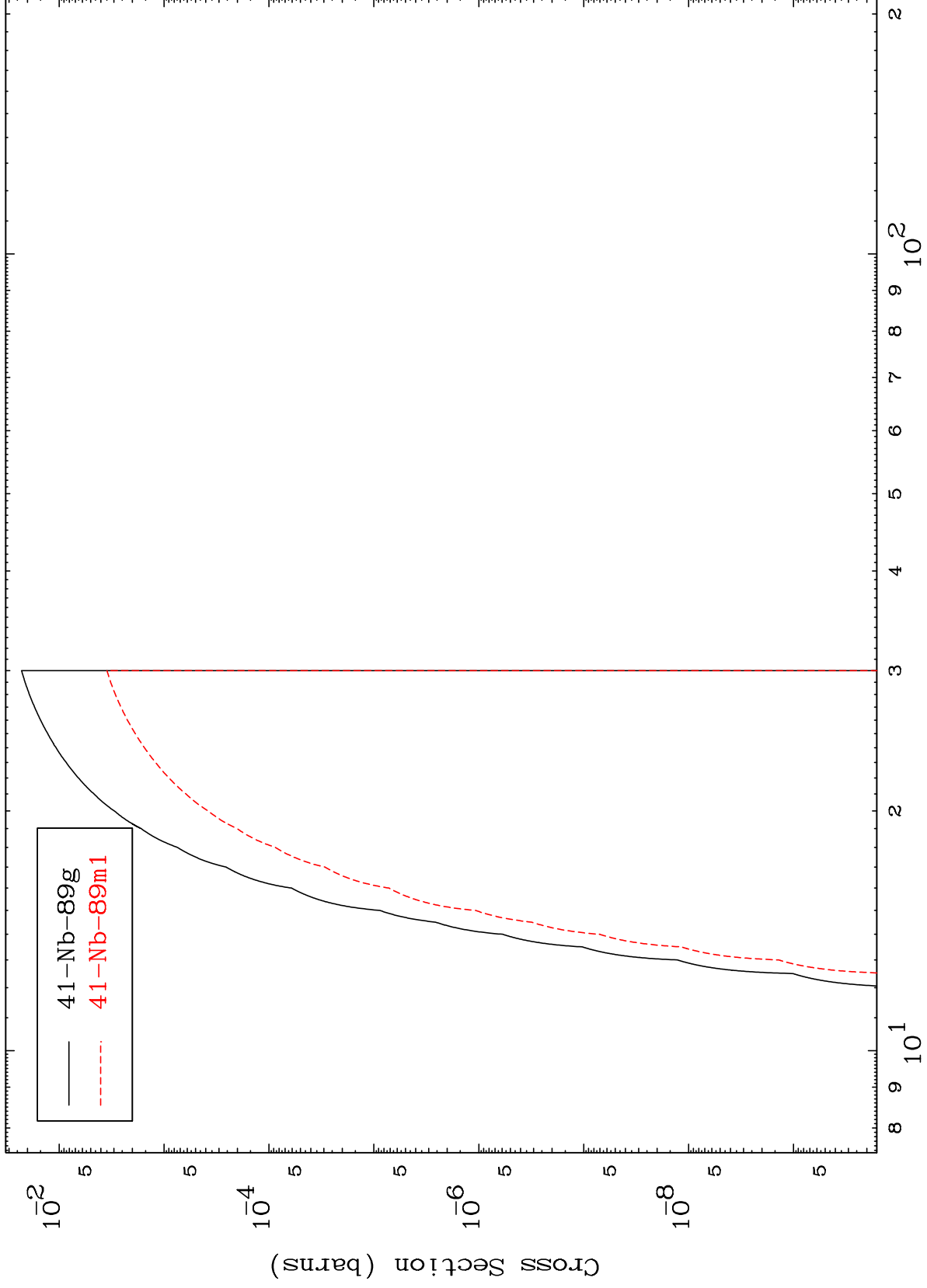
43-Tc-91

MAT 4301

(n,p) d

43-Tc-91

Radionuclide Production Cross Section



103

Incident Energy (MeV)

43-Tc-91

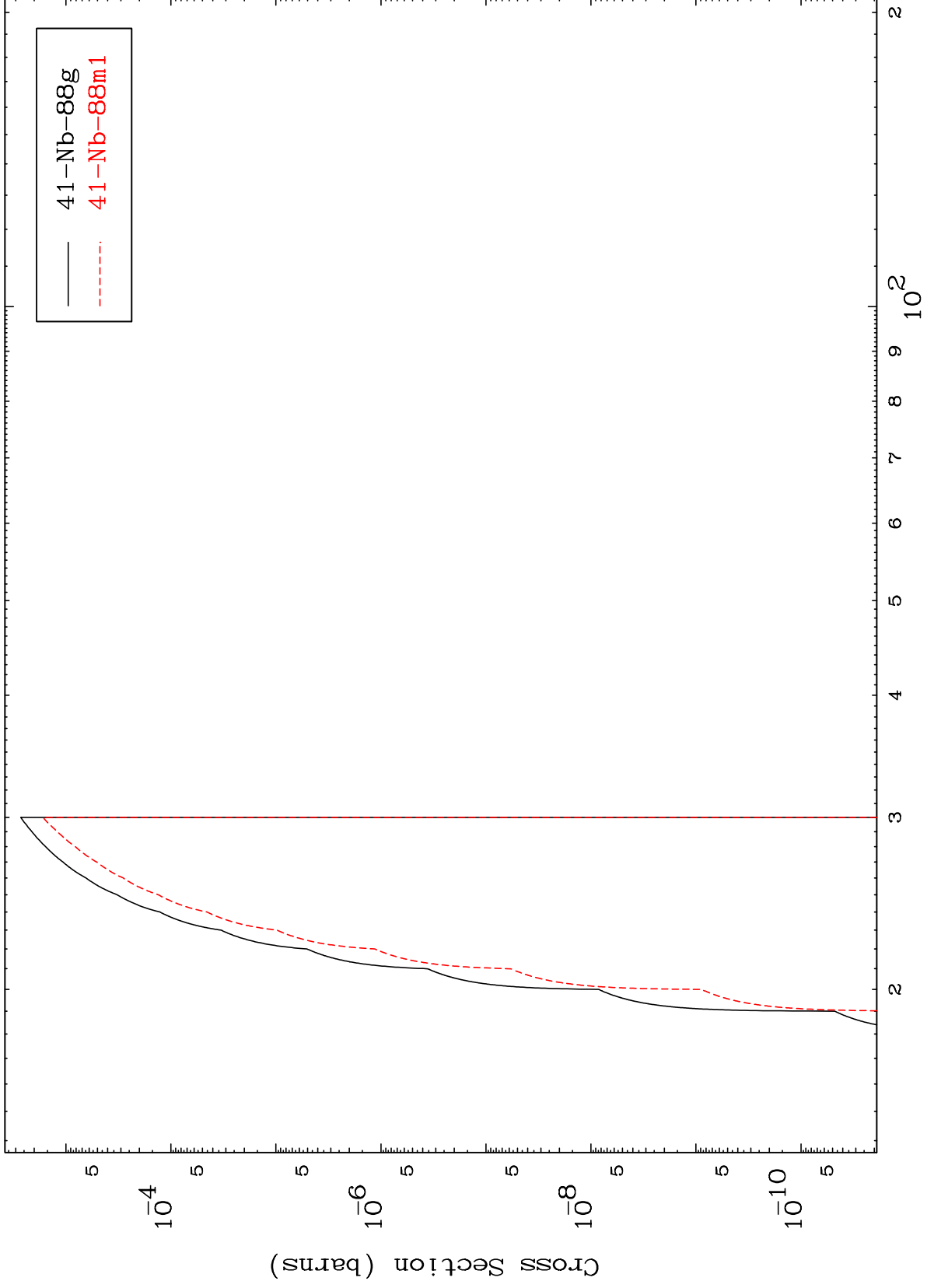


MAT 4301

(n,p) t

43-Tc-91

Radionuclide Production Cross Section



104

Incident Energy (MeV)

43-Tc-91