

Program EVALPLOT
(Version 2017-1)

by

Dermott E. Cullen
(Present Contact Information)

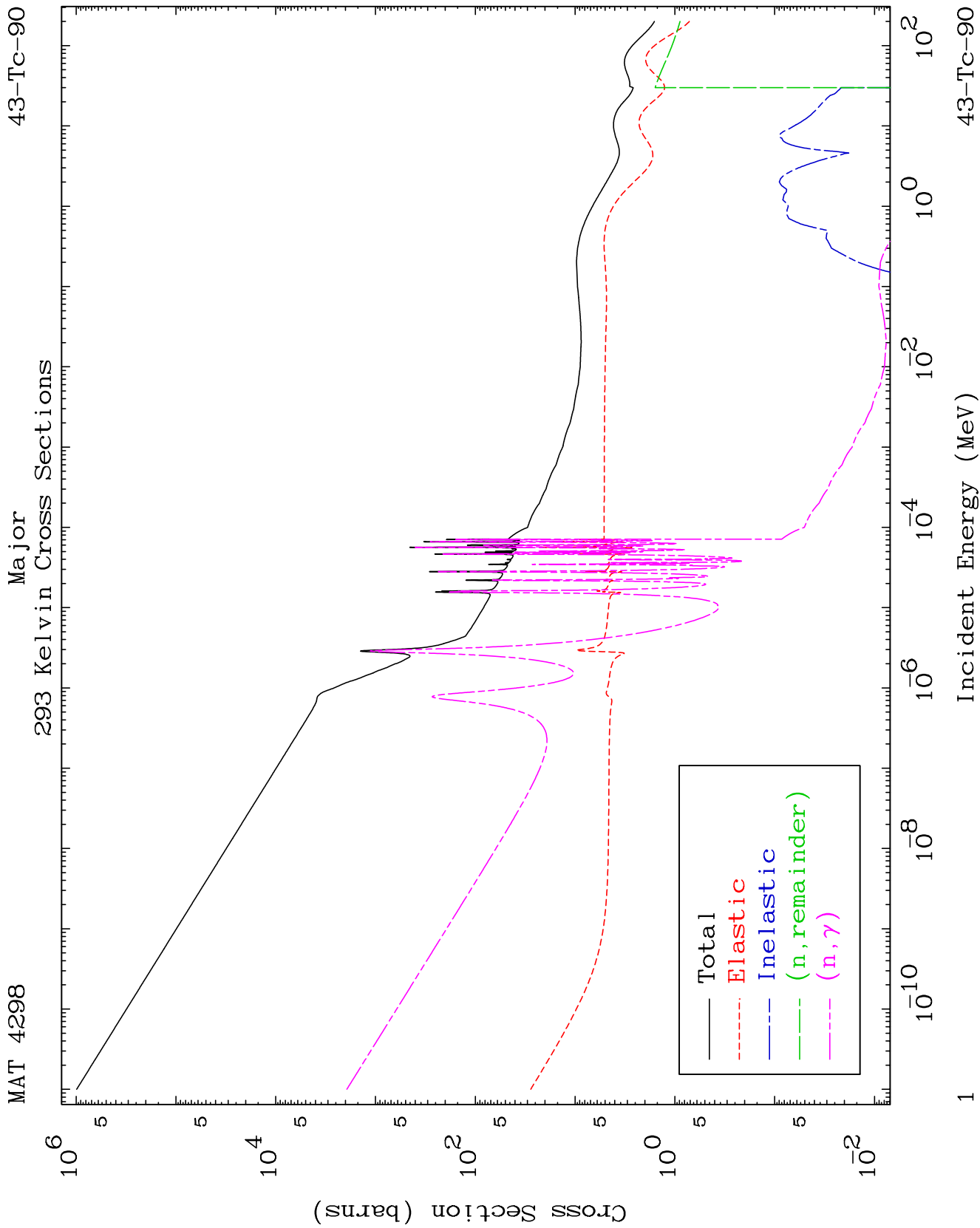
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
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Tele: 925-443-1911

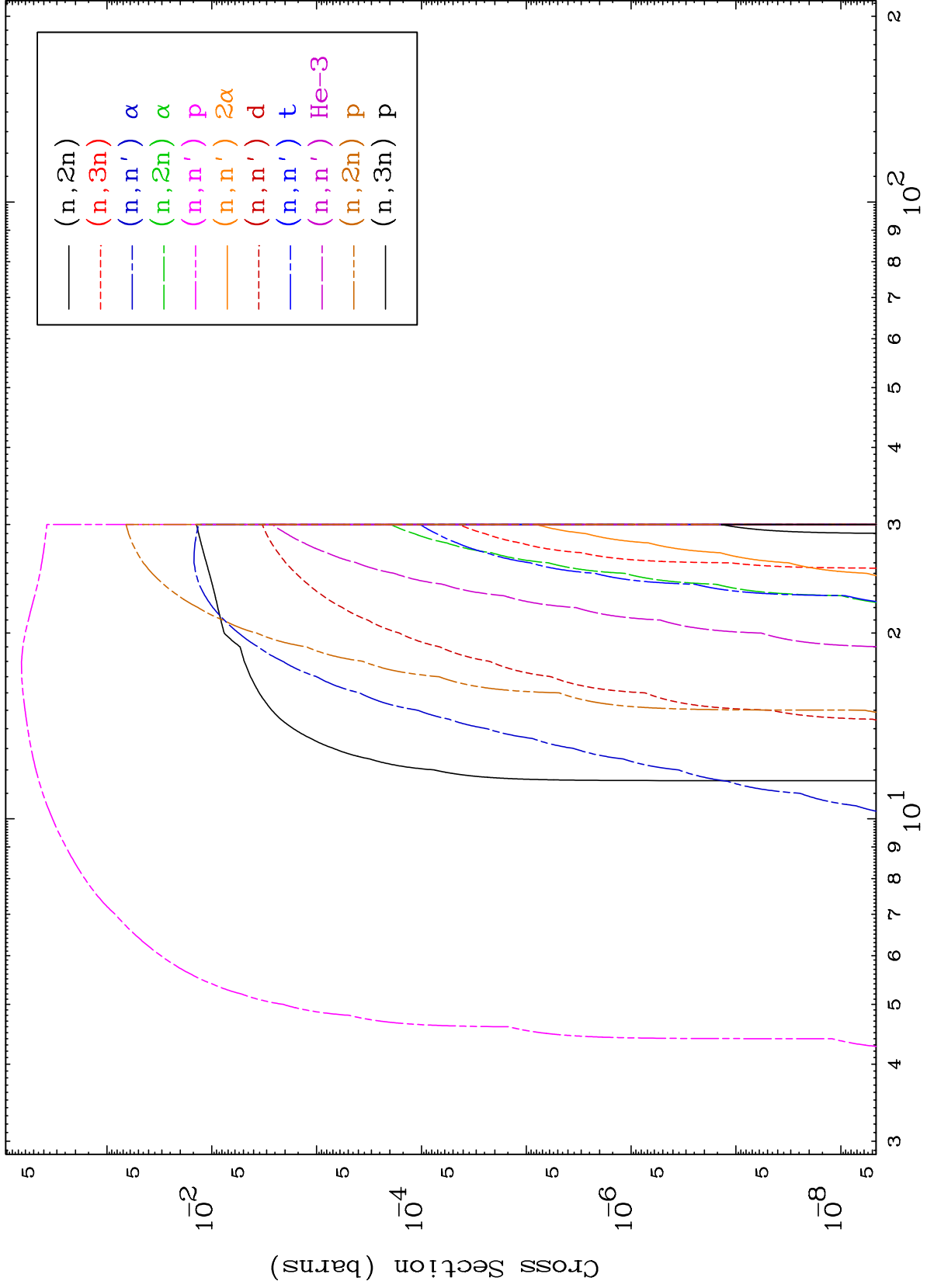
E.Mail: redcullen1@comcast.net

Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start



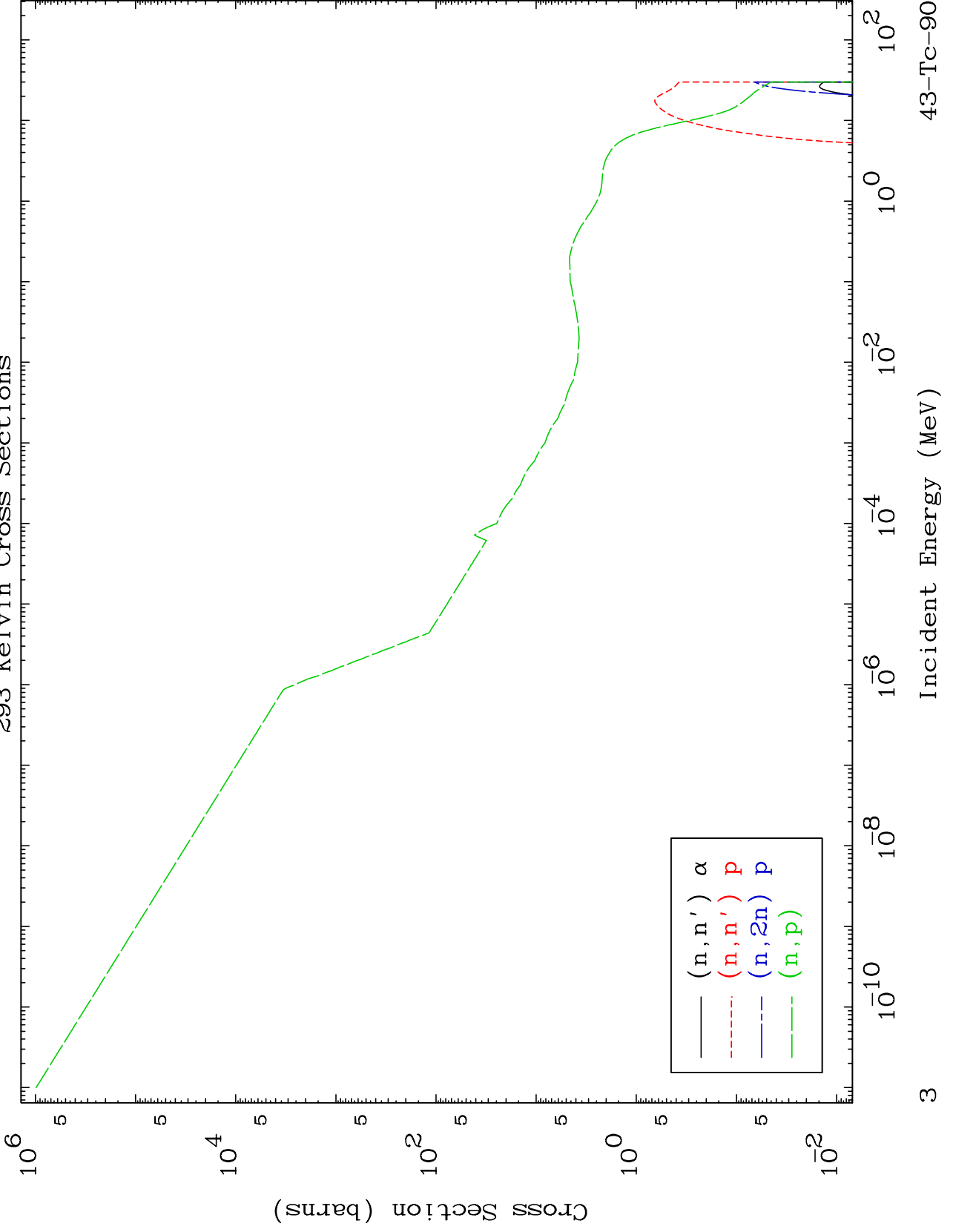
Neutron Production
293 Kelvin Cross Sections



MAT 4298

Charged Particle
293 Kelvin Cross Sections

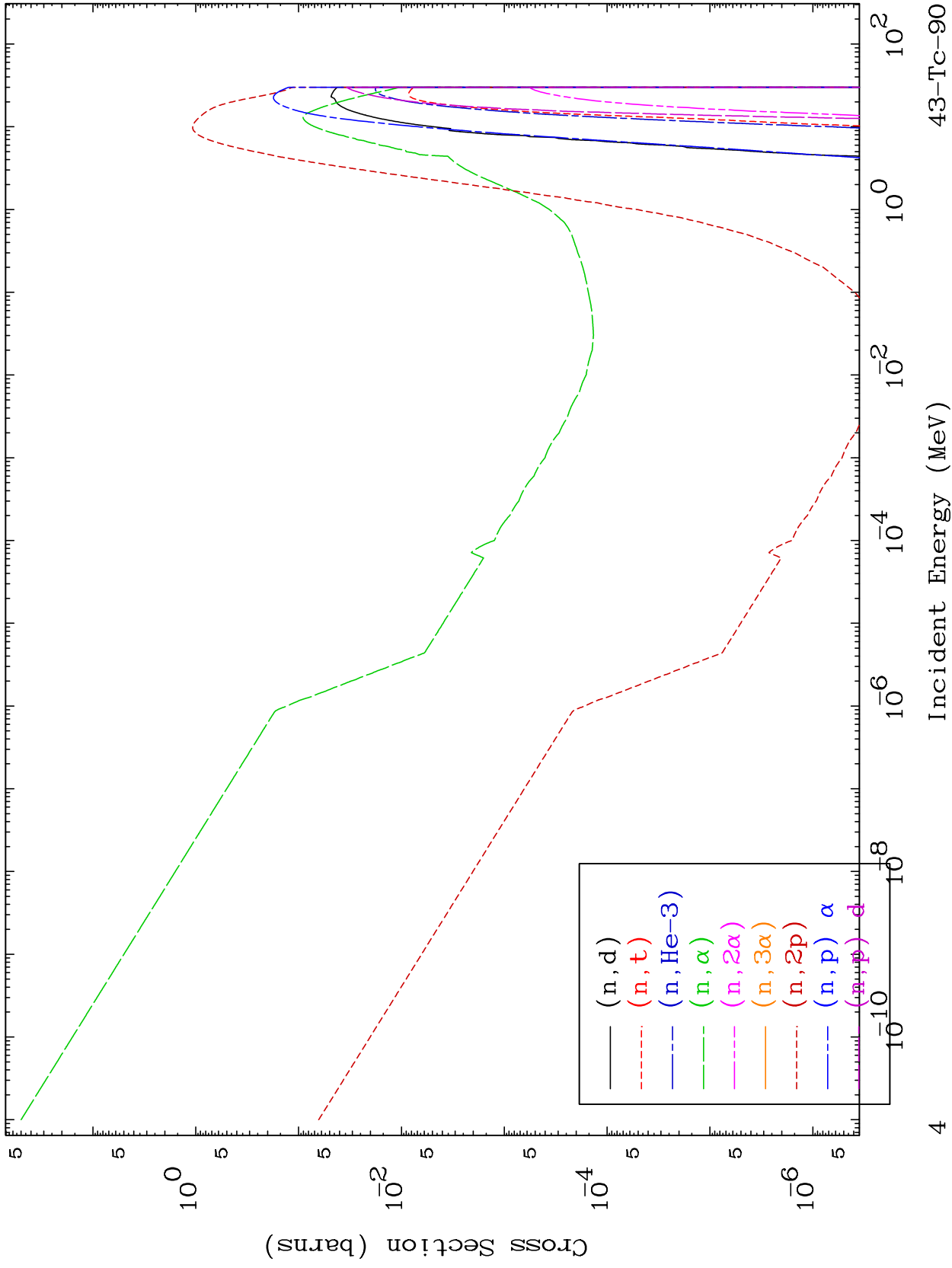
43-Tc-90



MAT 4298

Charged Particle
293 Kelvin Cross Sections

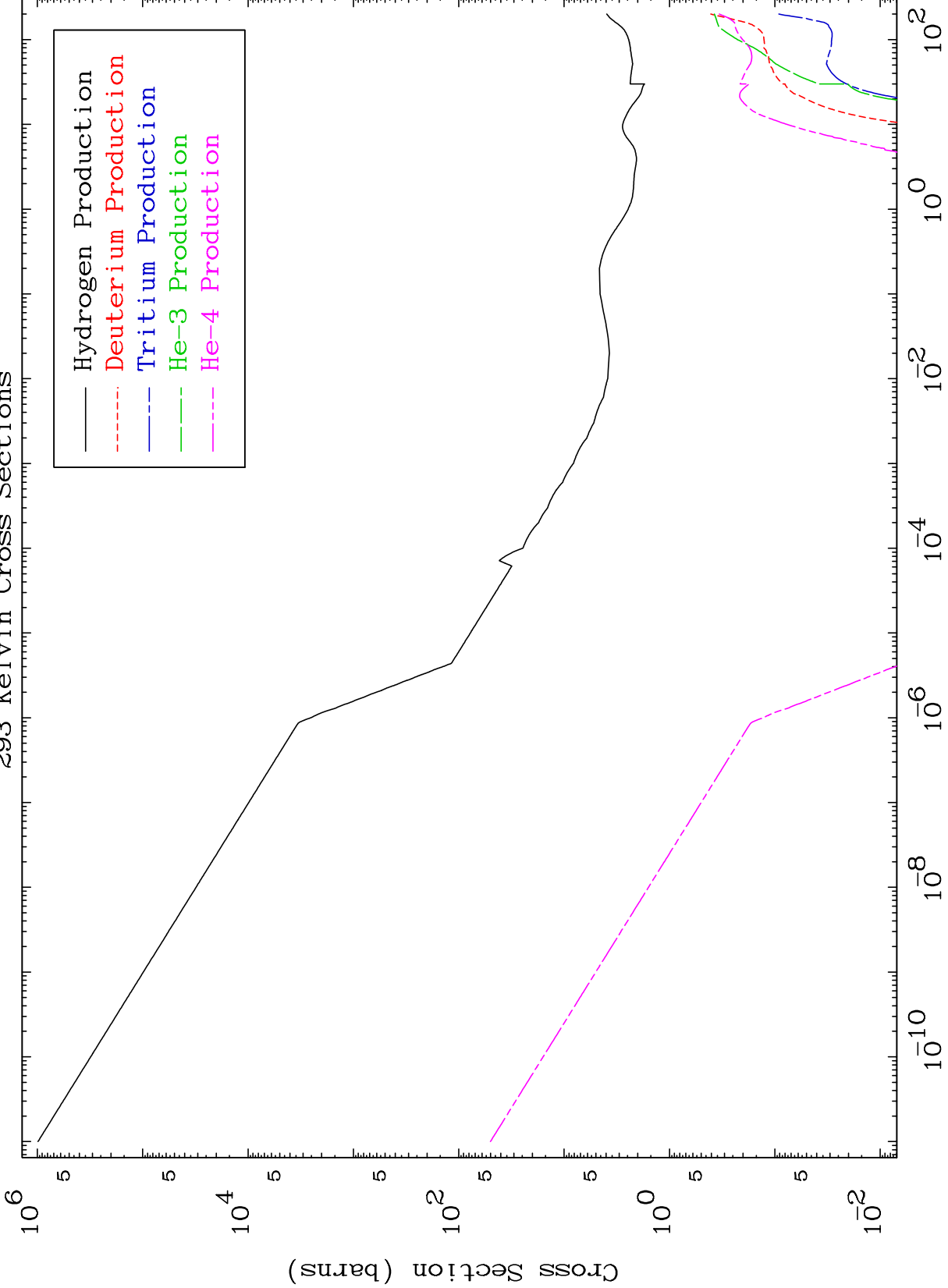
43-Tc-90



MAT 4298

Particle Production
293 Kelvin Cross Sections

43-Tc-90



Legend:
— Hydrogen Production
- - - Deuterium Production
- - - Tritium Production
- - - He-3 Production
- - - He-4 Production

Incident Energy (MeV)

43-Tc-90

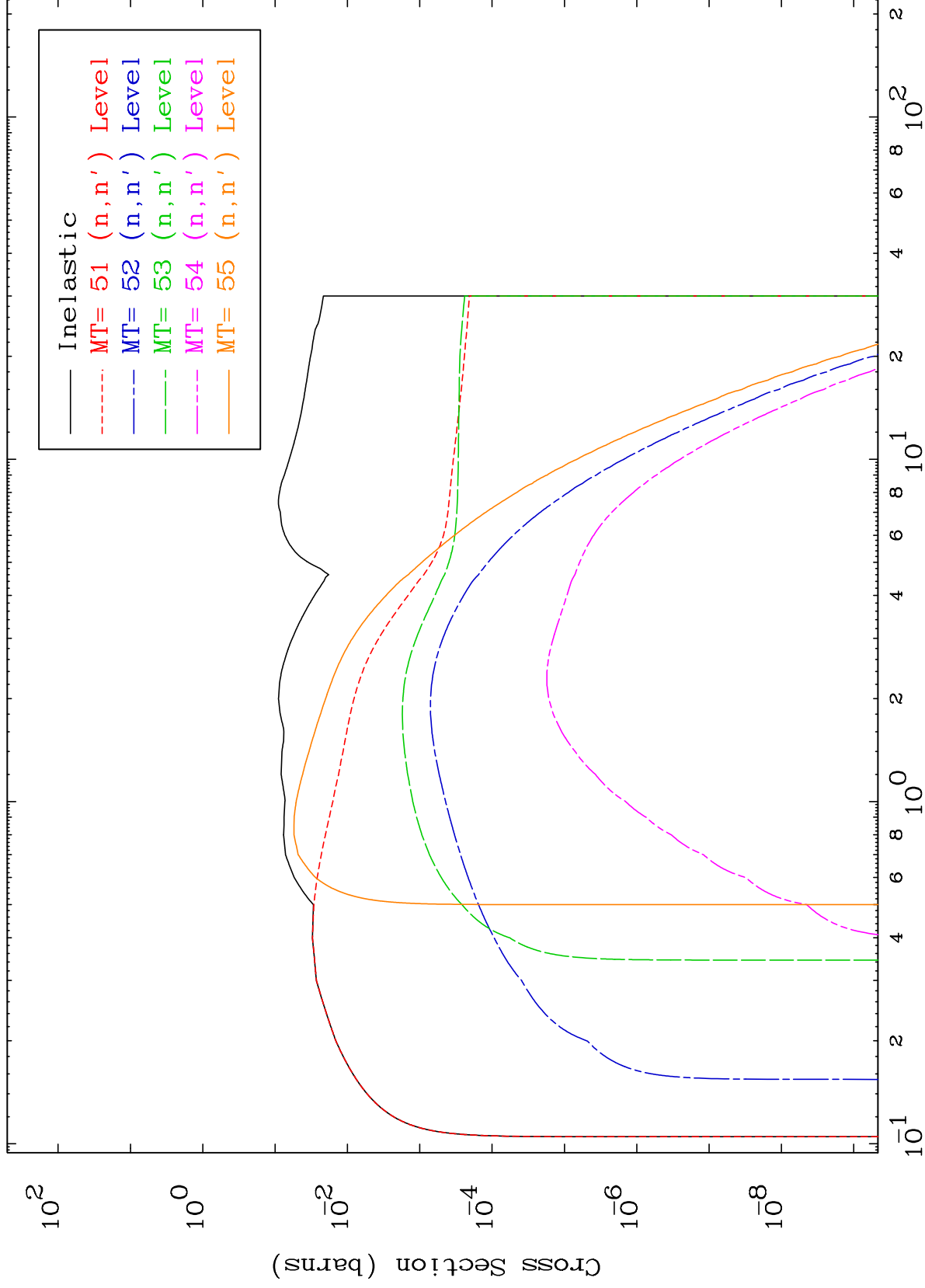
5

MAT 4298

(n,n') Level

43-Tc-90

293 Kelvin Cross Sections



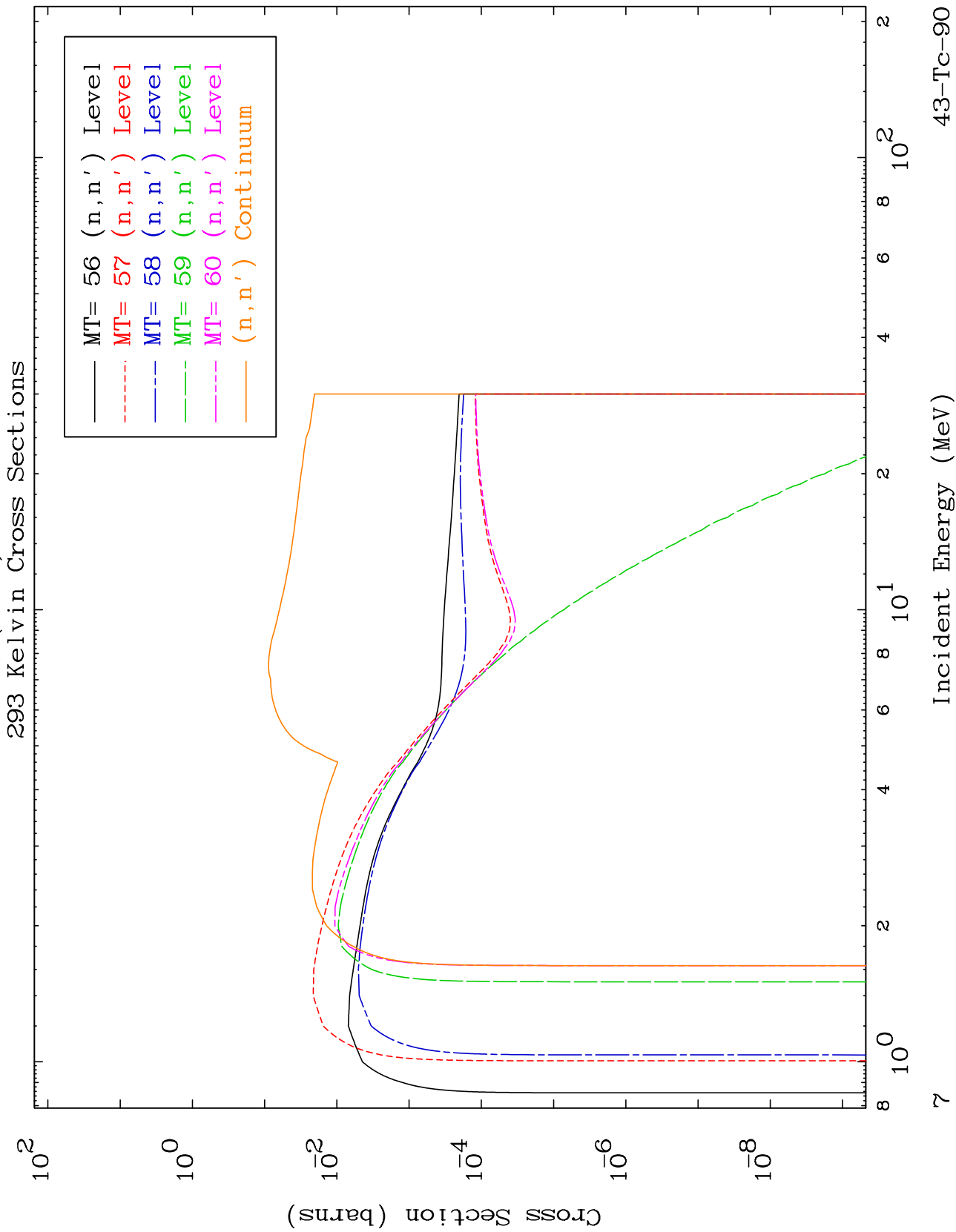
Incident Energy (MeV)

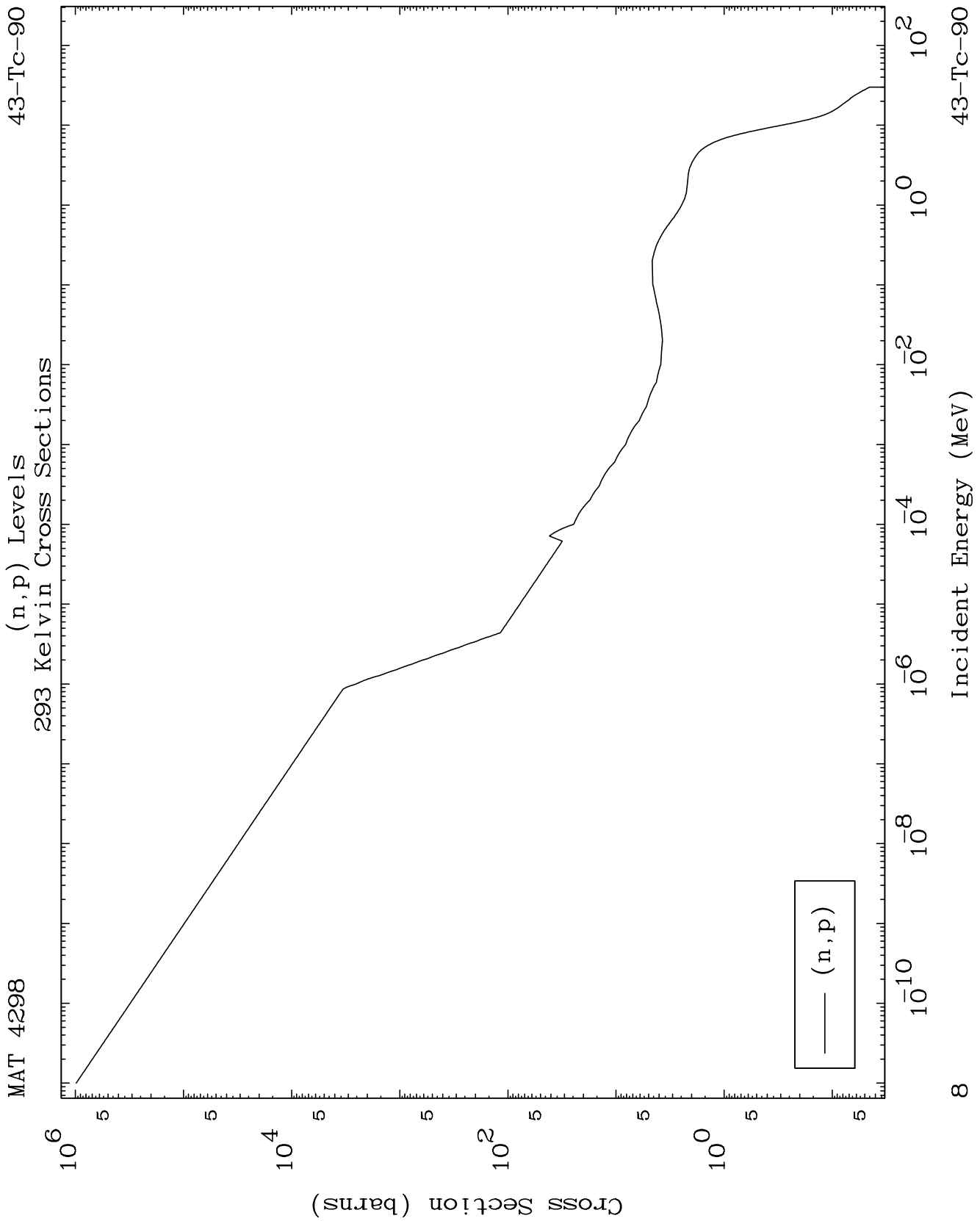
43-Tc-90

MAT 4298

(n,n') Level

43-Tc-90

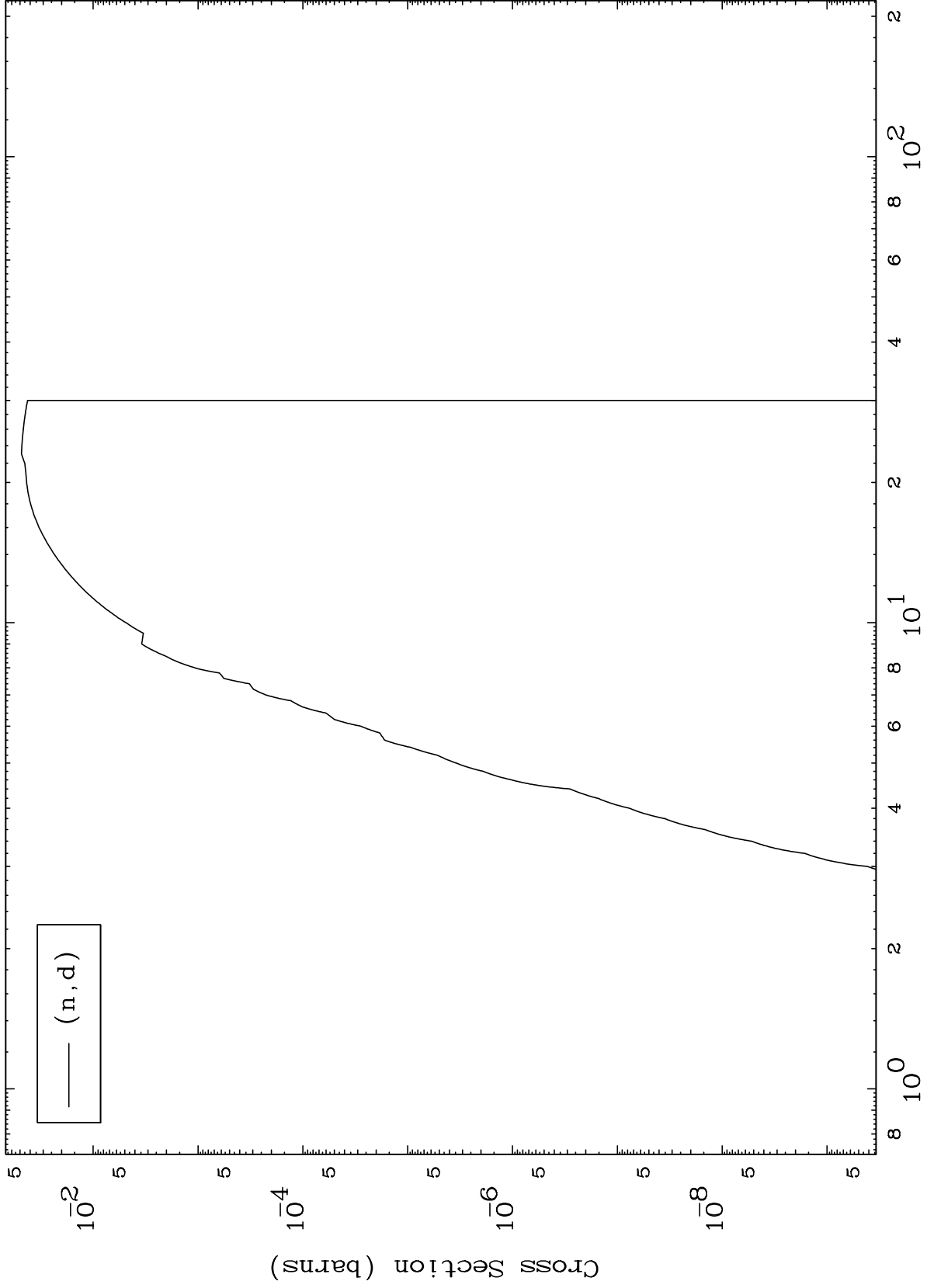




MAT 4298

(n,d) Levels
293 Kelvin Cross Sections

43-Tc-90



9

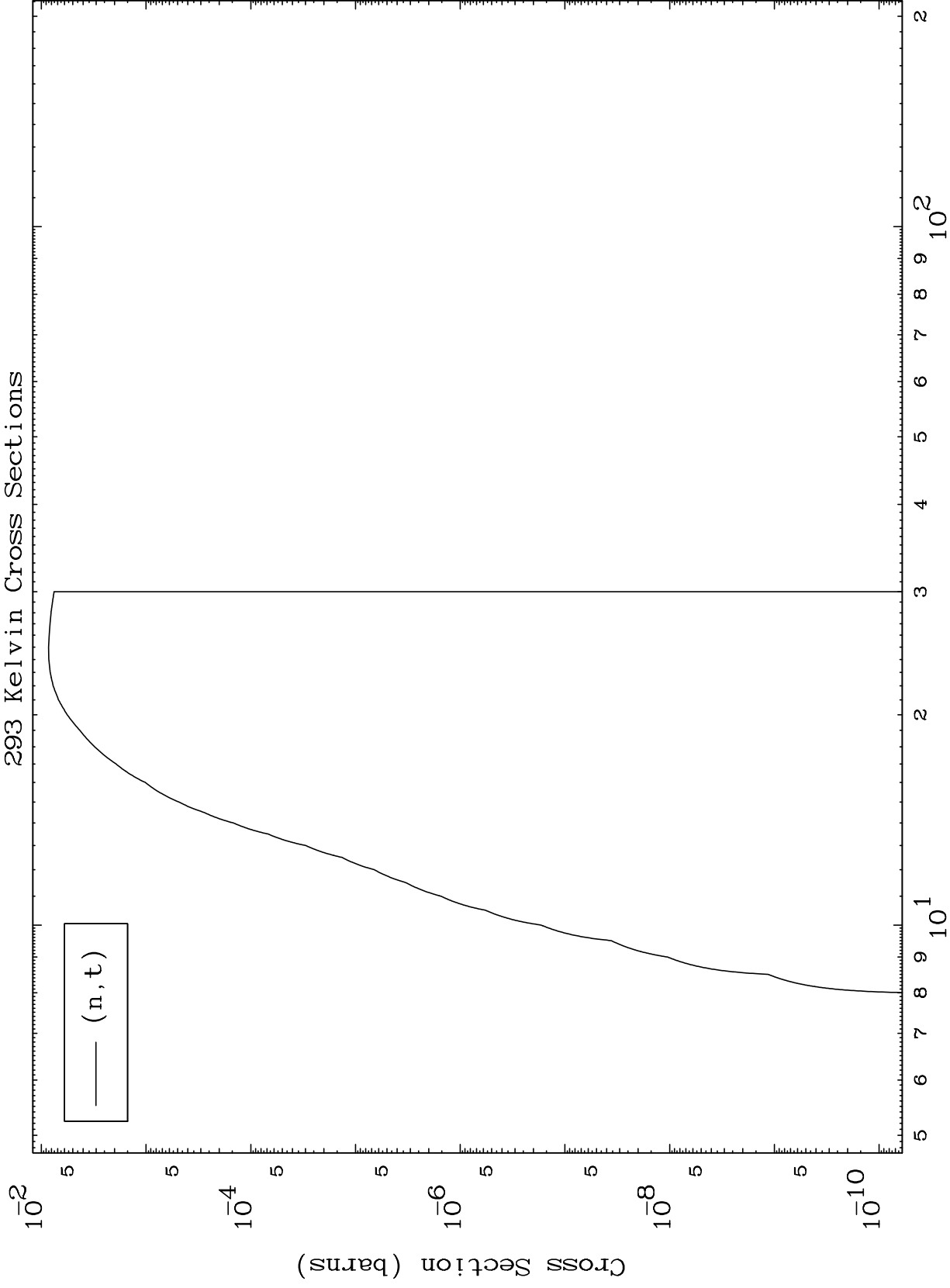
Incident Energy (MeV)

43-Tc-90

MAT 4298

(n,t) Levels
293 Kelvin Cross Sections

43-Tc-90



10

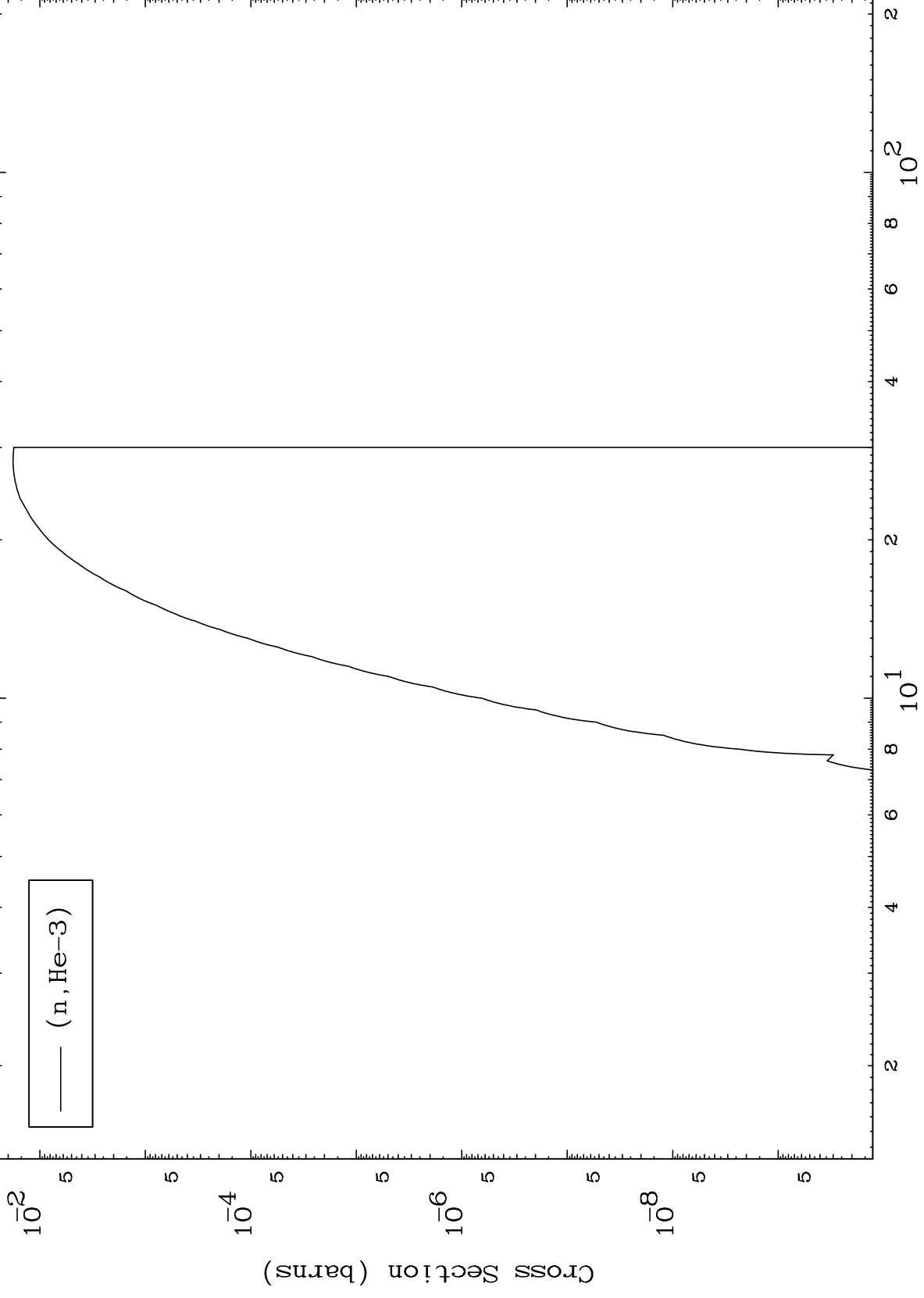
Incident Energy (MeV)

43-Tc-90

MAT 4298

(n,He3) Levels
293 Kelvin Cross Sections

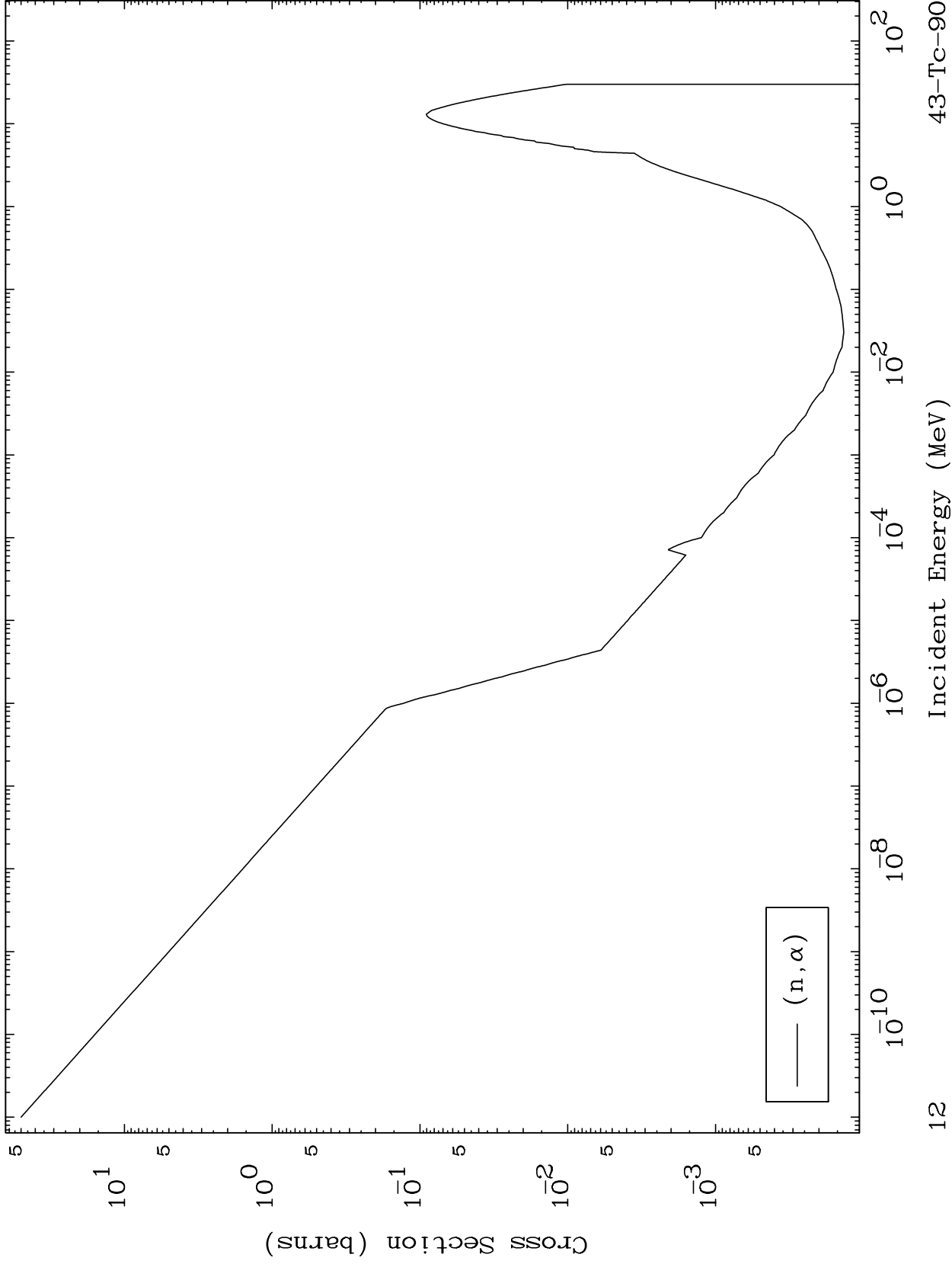
43-Tc-90

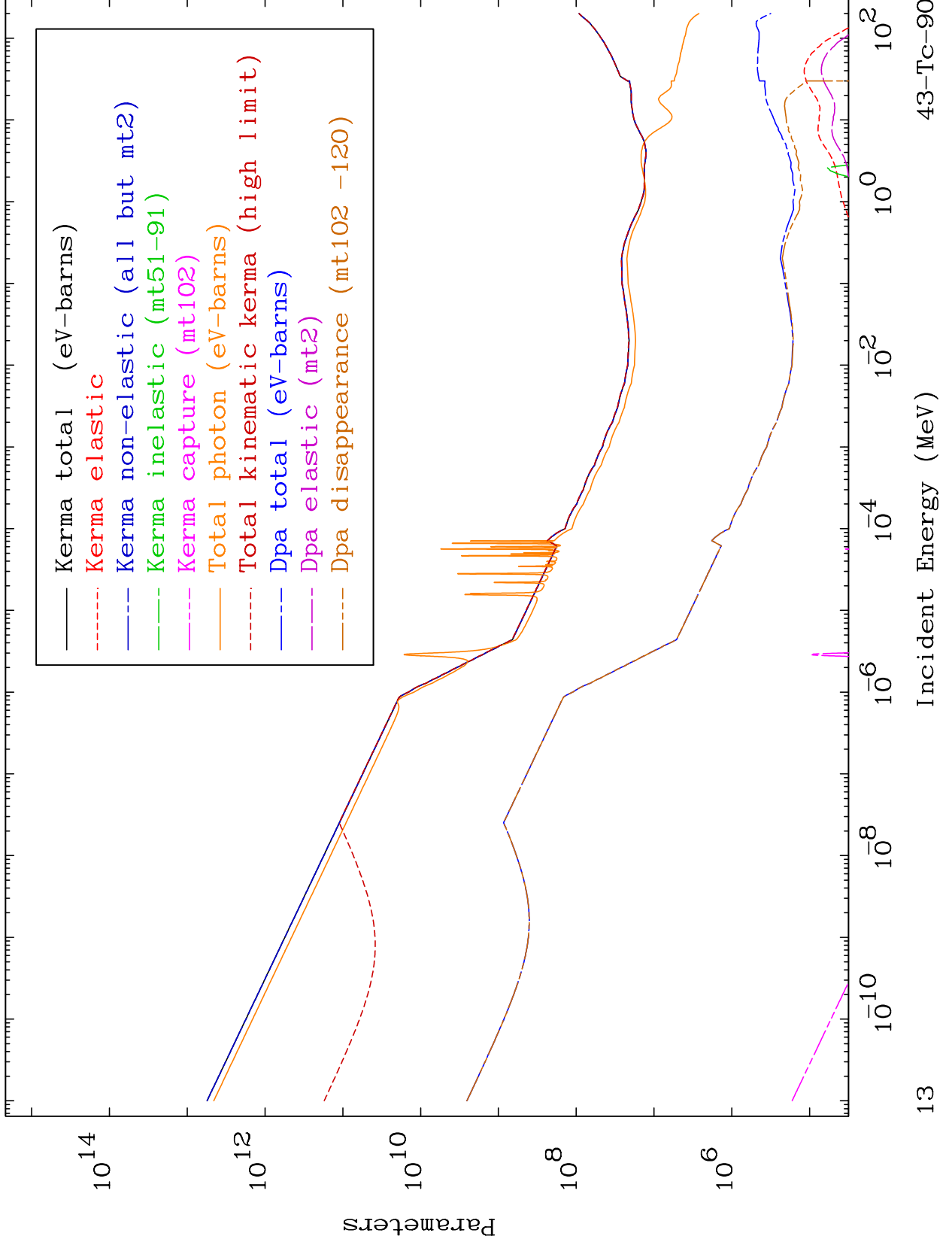


MAT 4298

(n,α) Levels
293 Kelvin Cross Sections

43-Tc-90

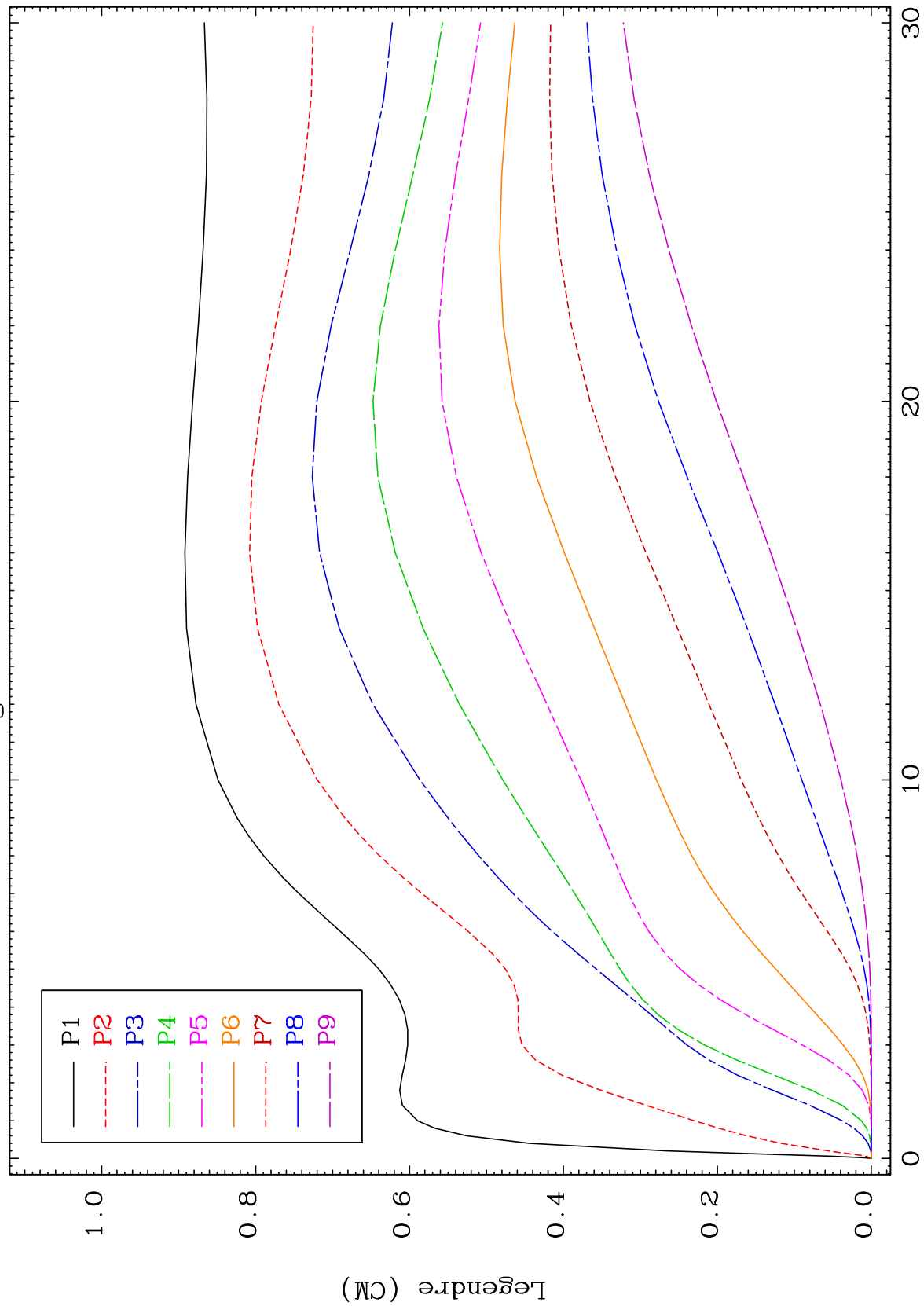




MAT 4298

Elastic Legendre Coefficients

43-Tc-90



14

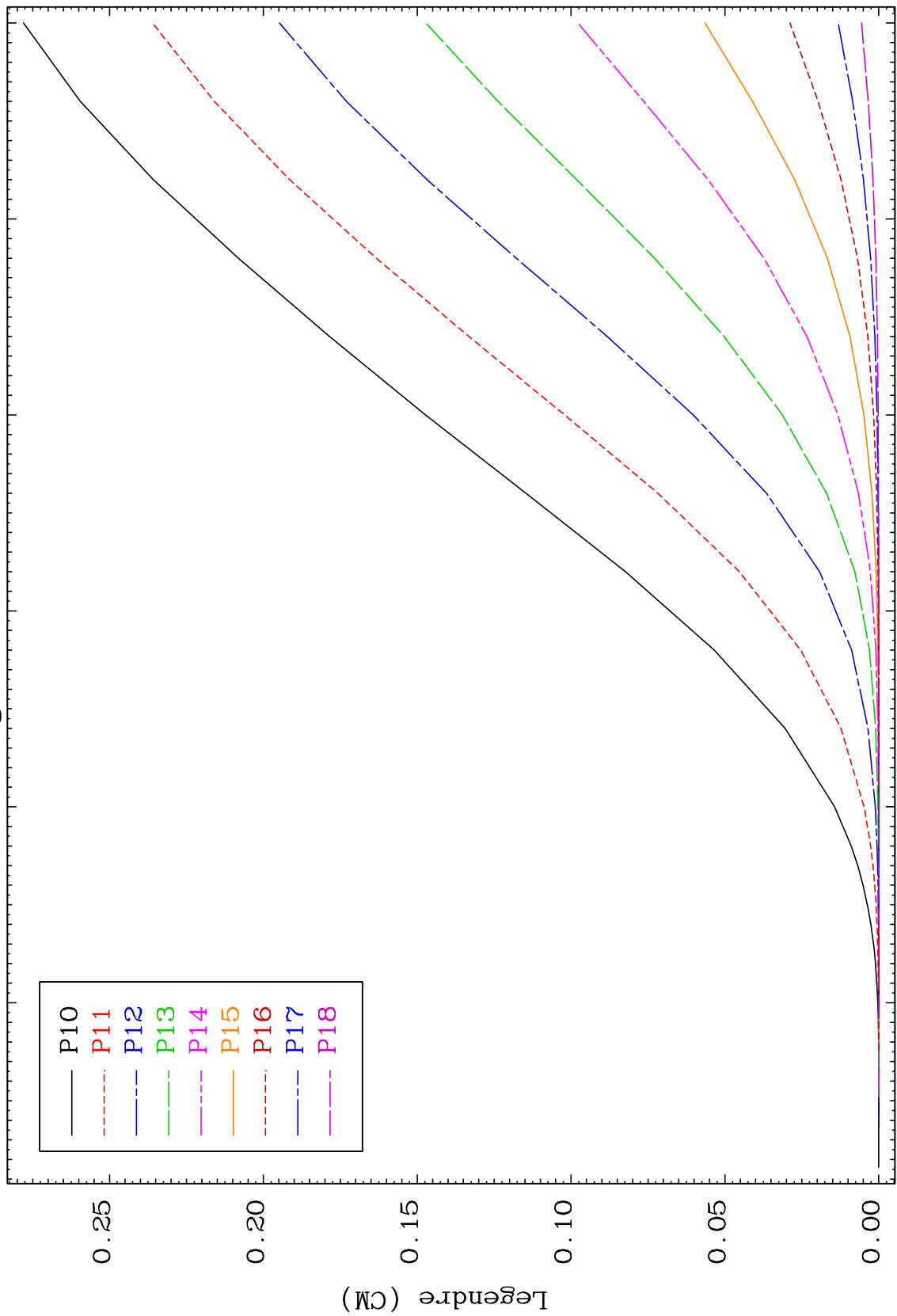
Incident Energy (MeV)

43-Tc-90

MAT 4298

Elastic Legendre Coefficients

43-Tc-90



43-Tc-90

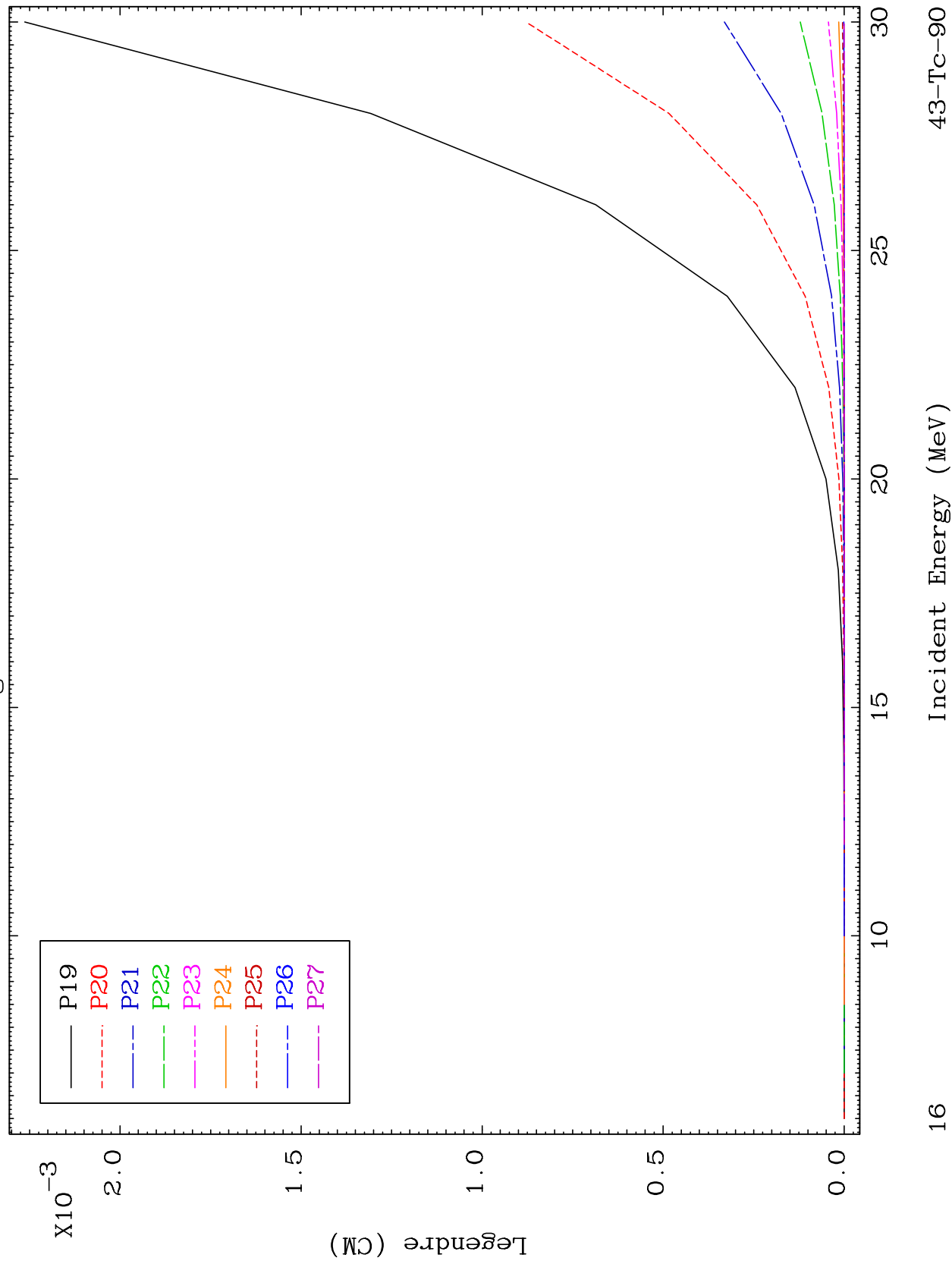
Incident Energy (MeV)

15

MAT 4298

Elastic Legendre Coefficients

43-Tc-90



16

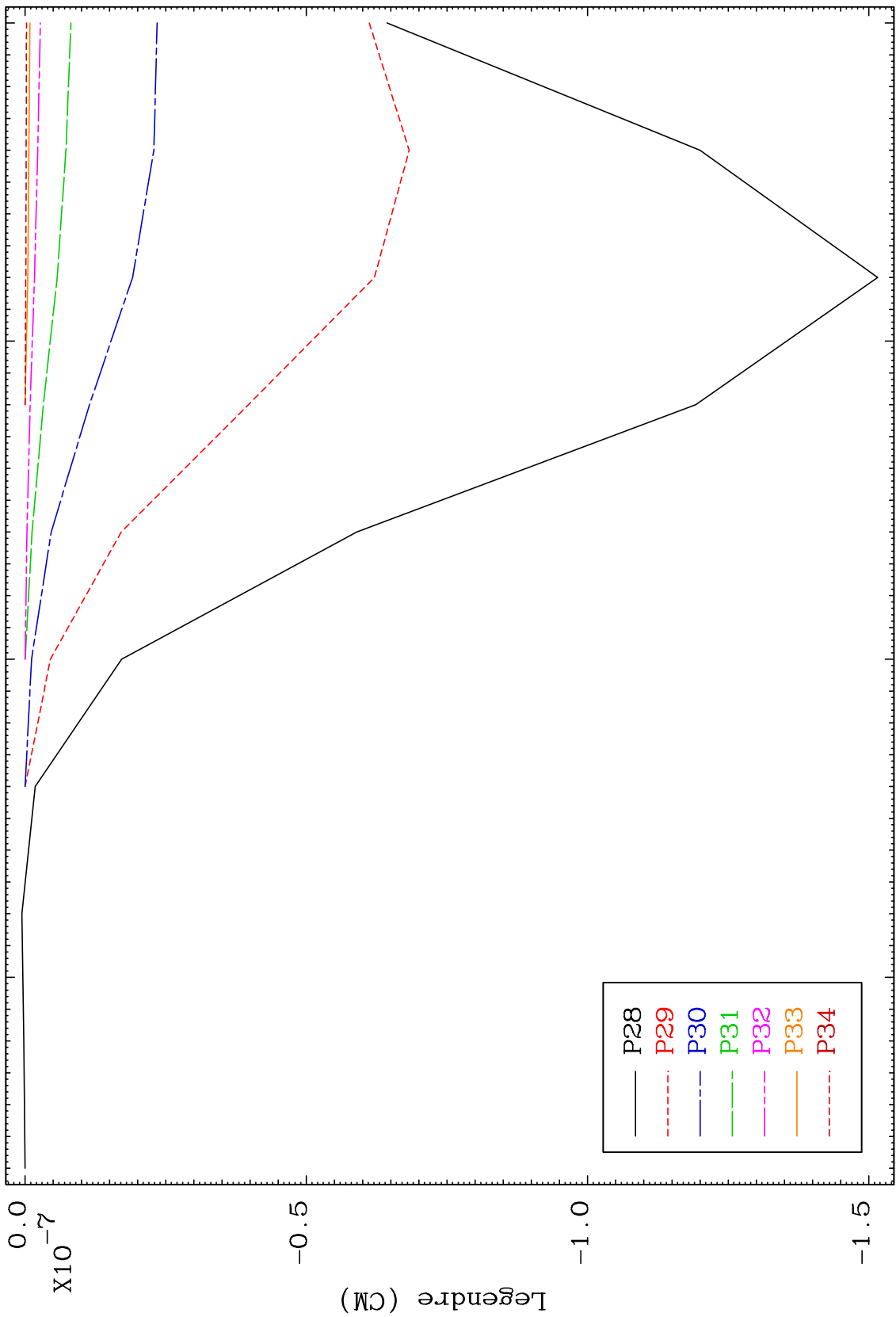
Incident Energy (MeV)

43-Tc-90

MAT 4298

43-Tc-90

Elastic Legendre Coefficients



17

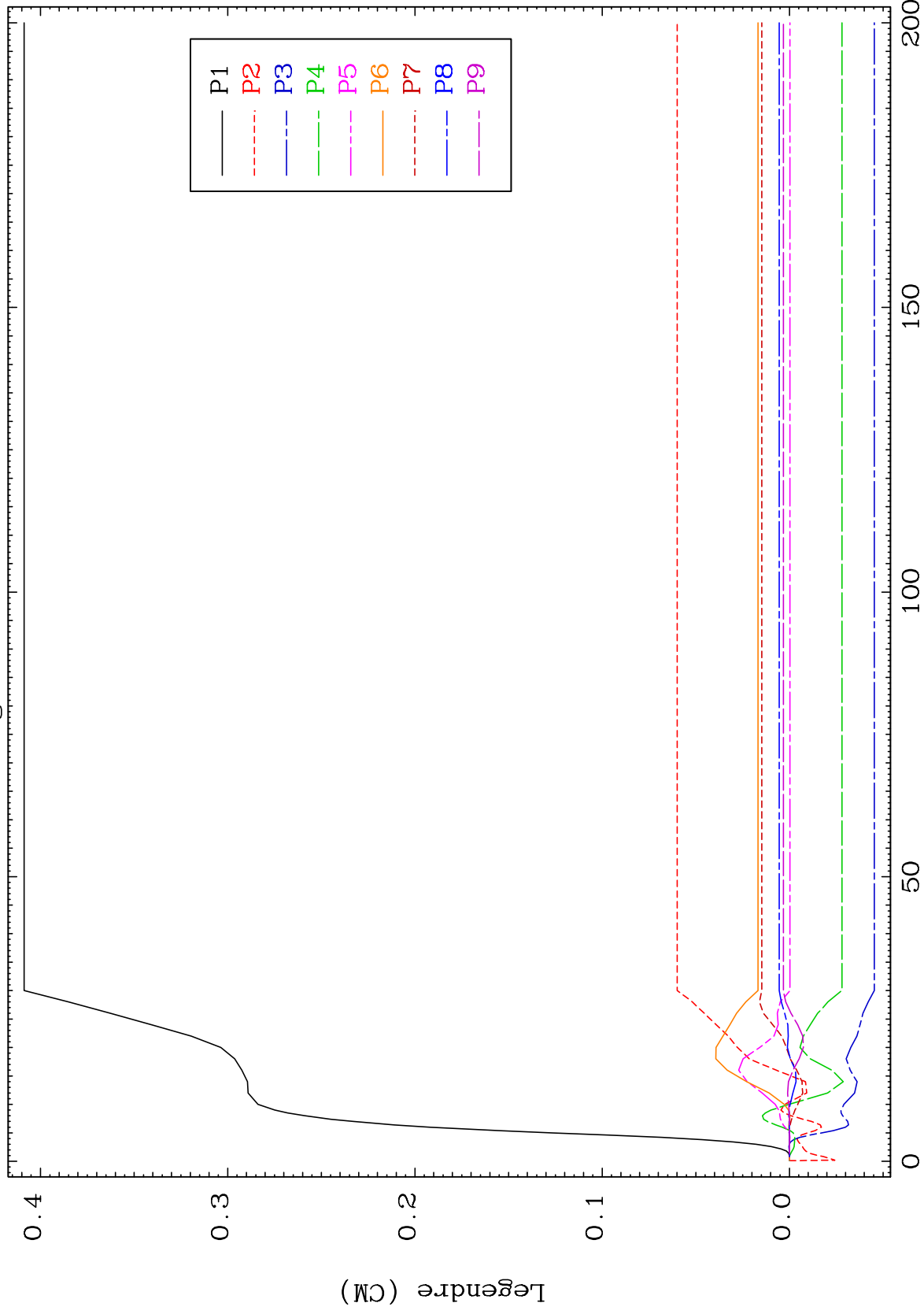
Incident Energy (MeV)

43-Tc-90

MAT 4298

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

43-Tc-90



43-Tc-90

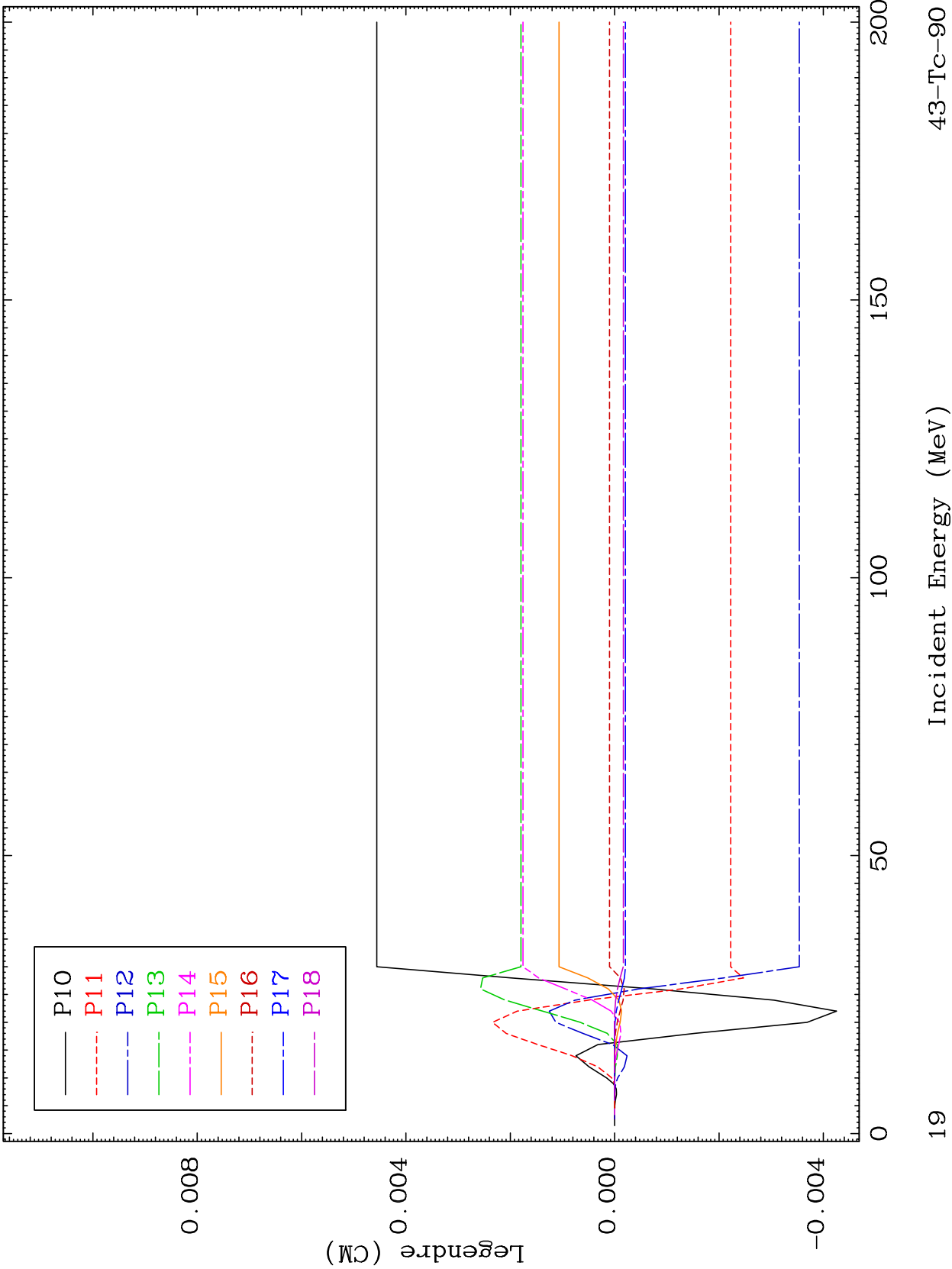
Incident Energy (MeV)

18

MAT 4298

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

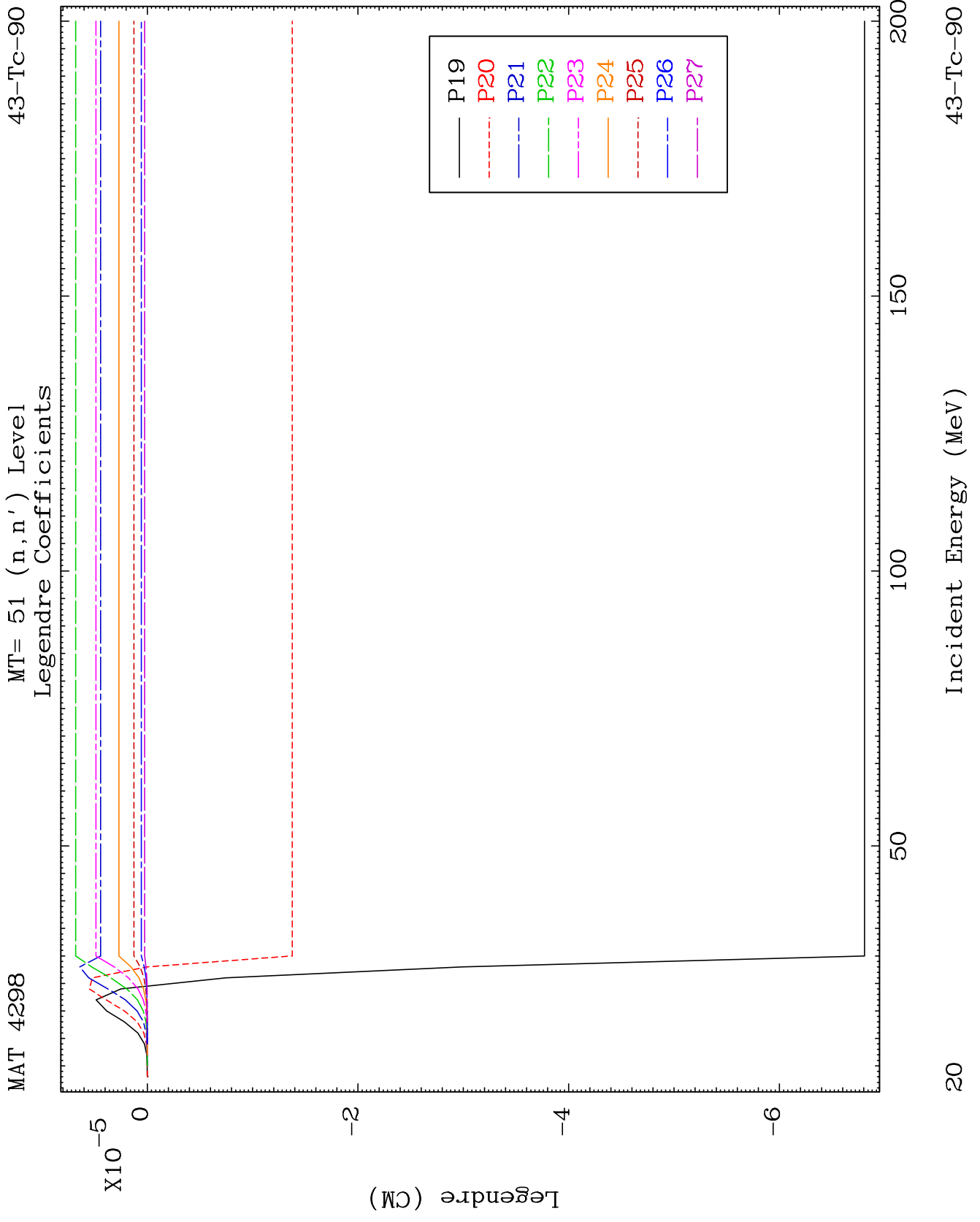
43-Tc-90



19

Incident Energy (MeV)

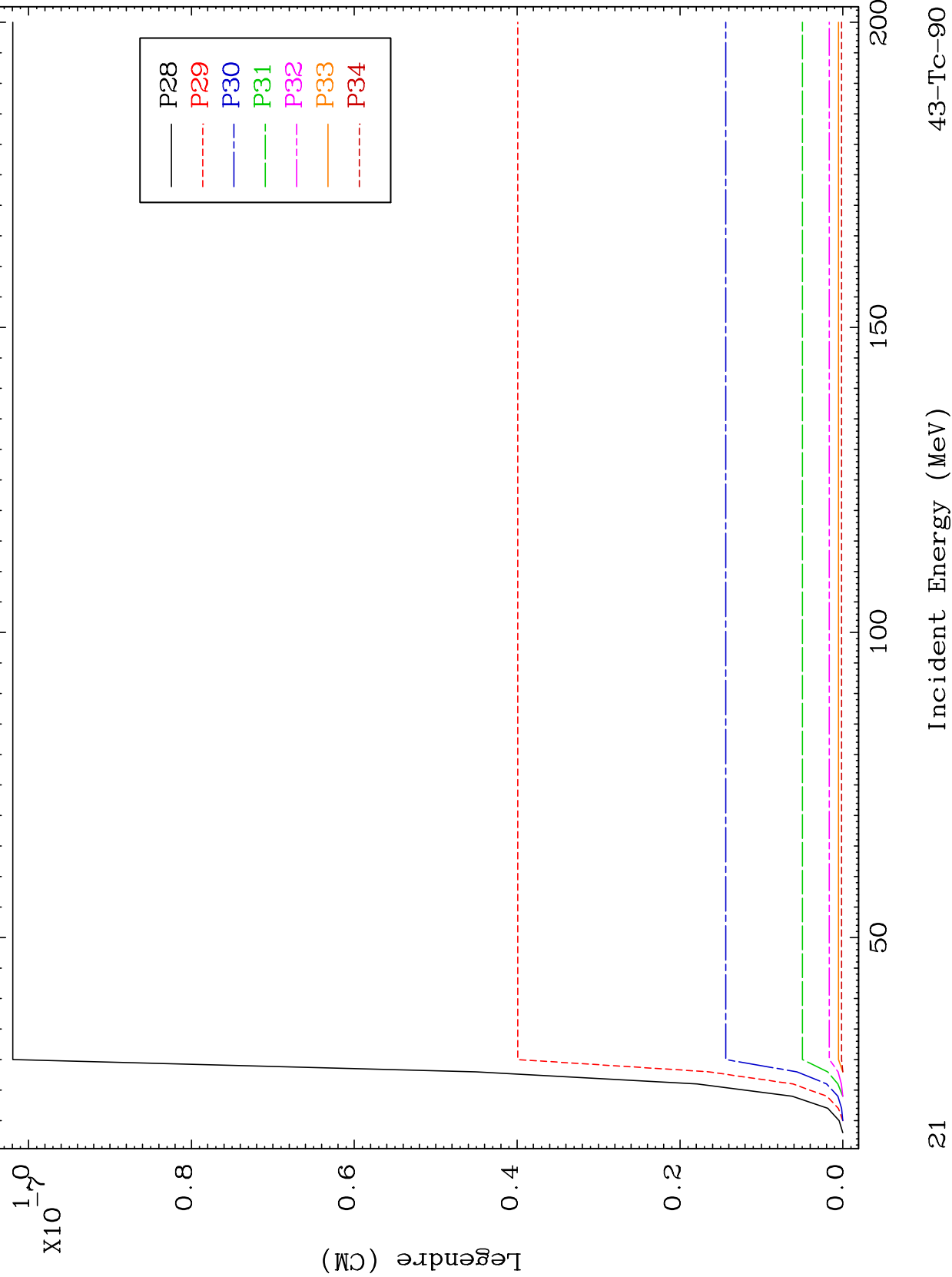
43-Tc-90



MAT 4298

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

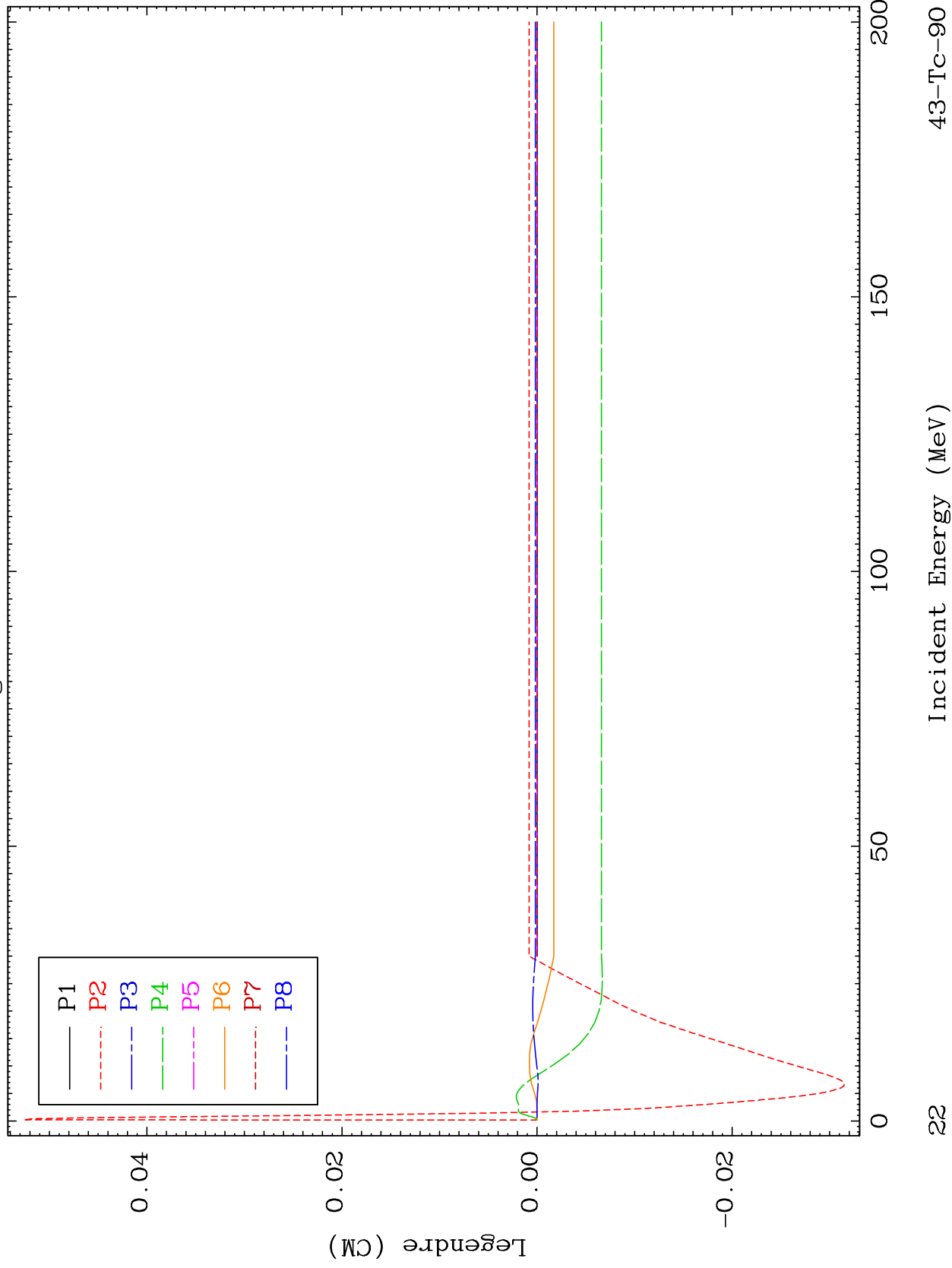
43-Tc-90

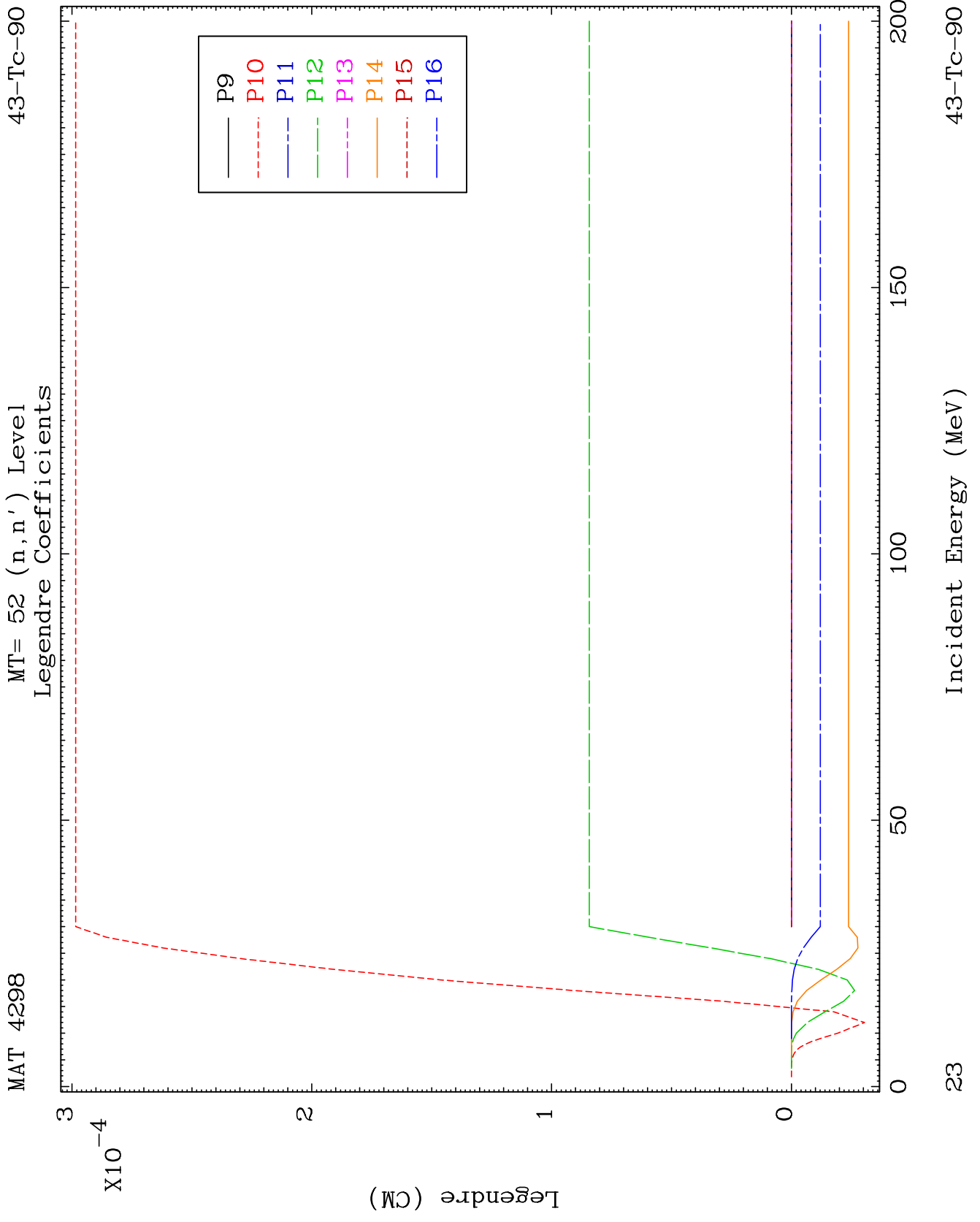


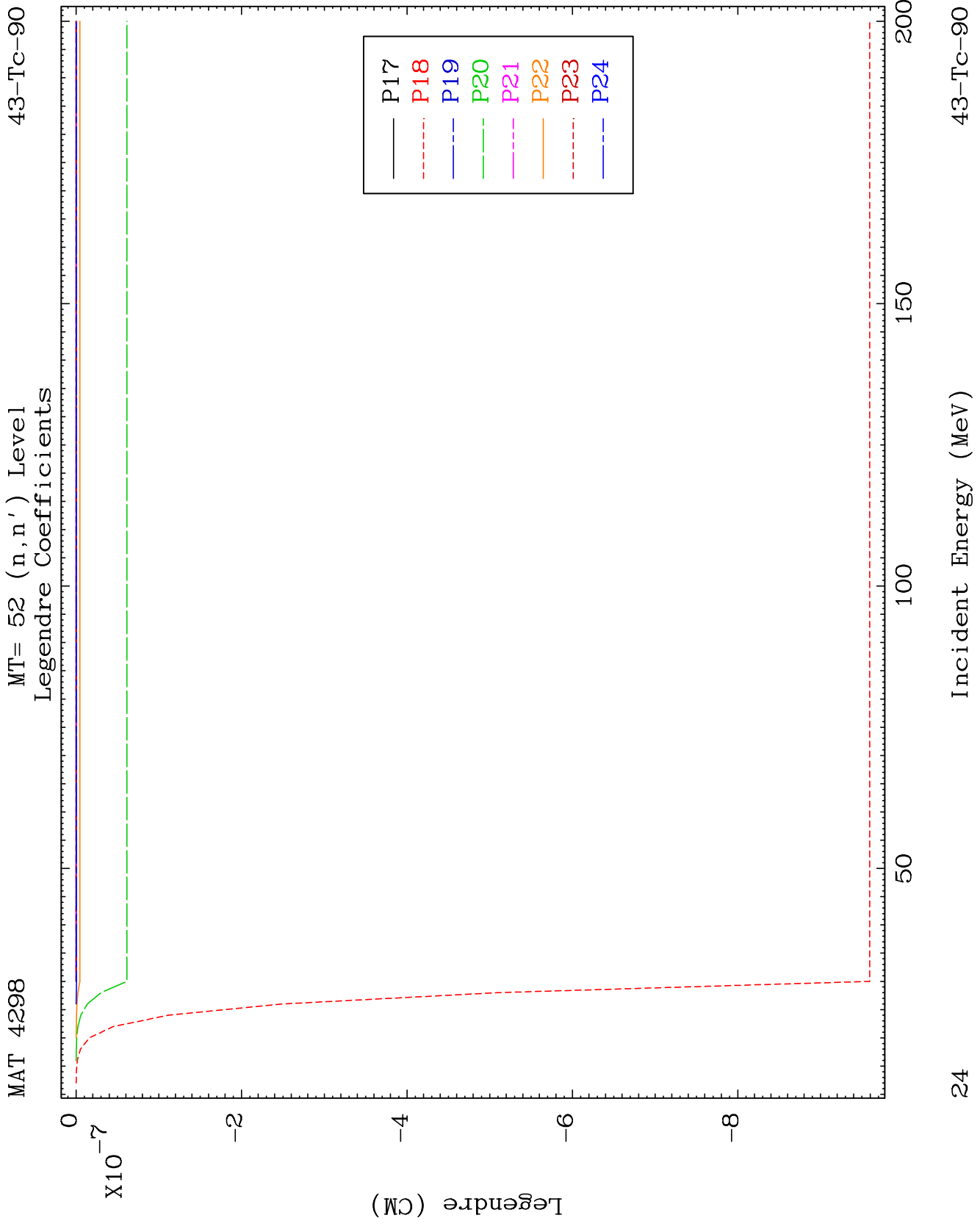
MAT 4298

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

43-Tc-90



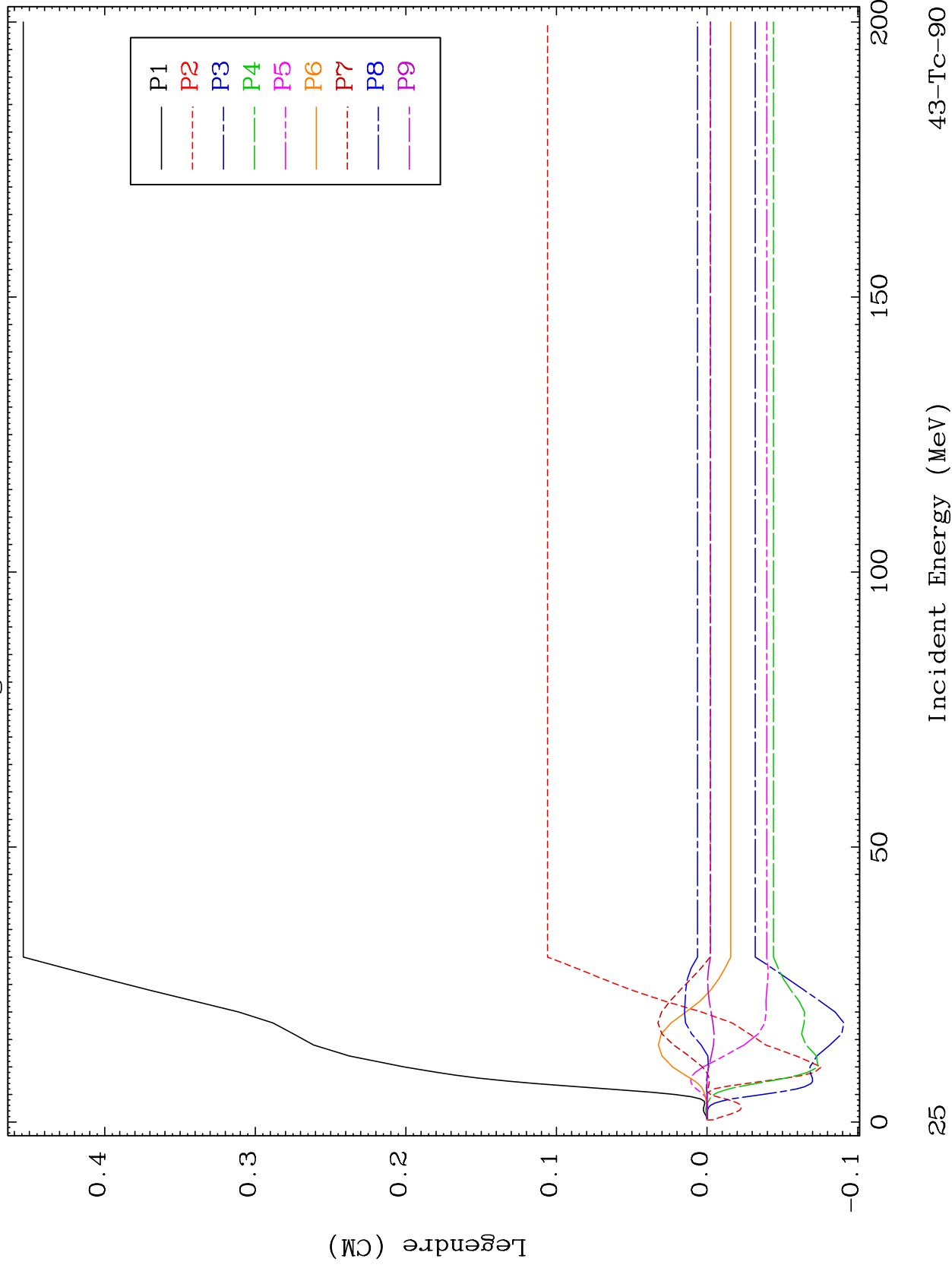




MAT 4298

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

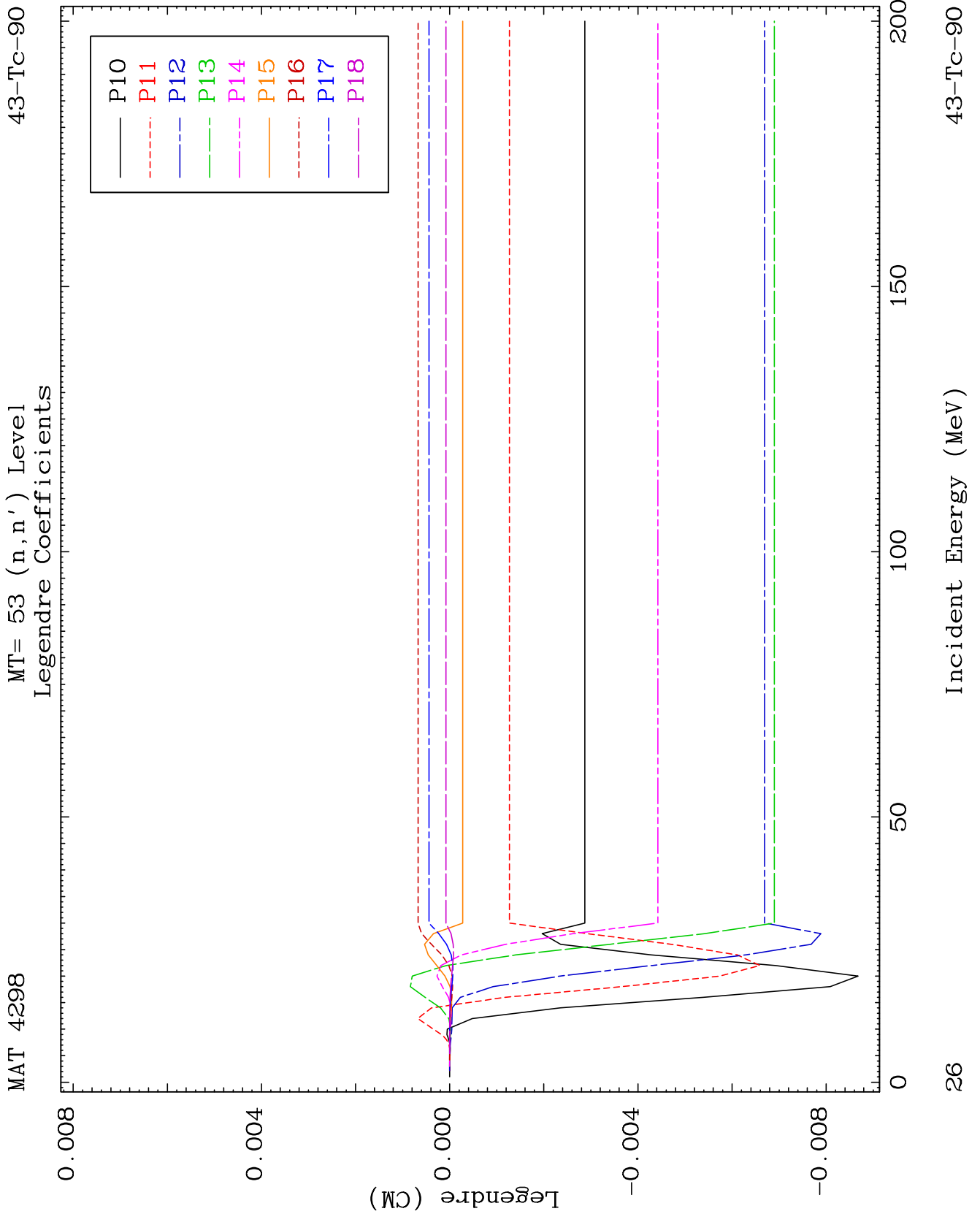
43-Tc-90



43-Tc-90

Incident Energy (MeV)

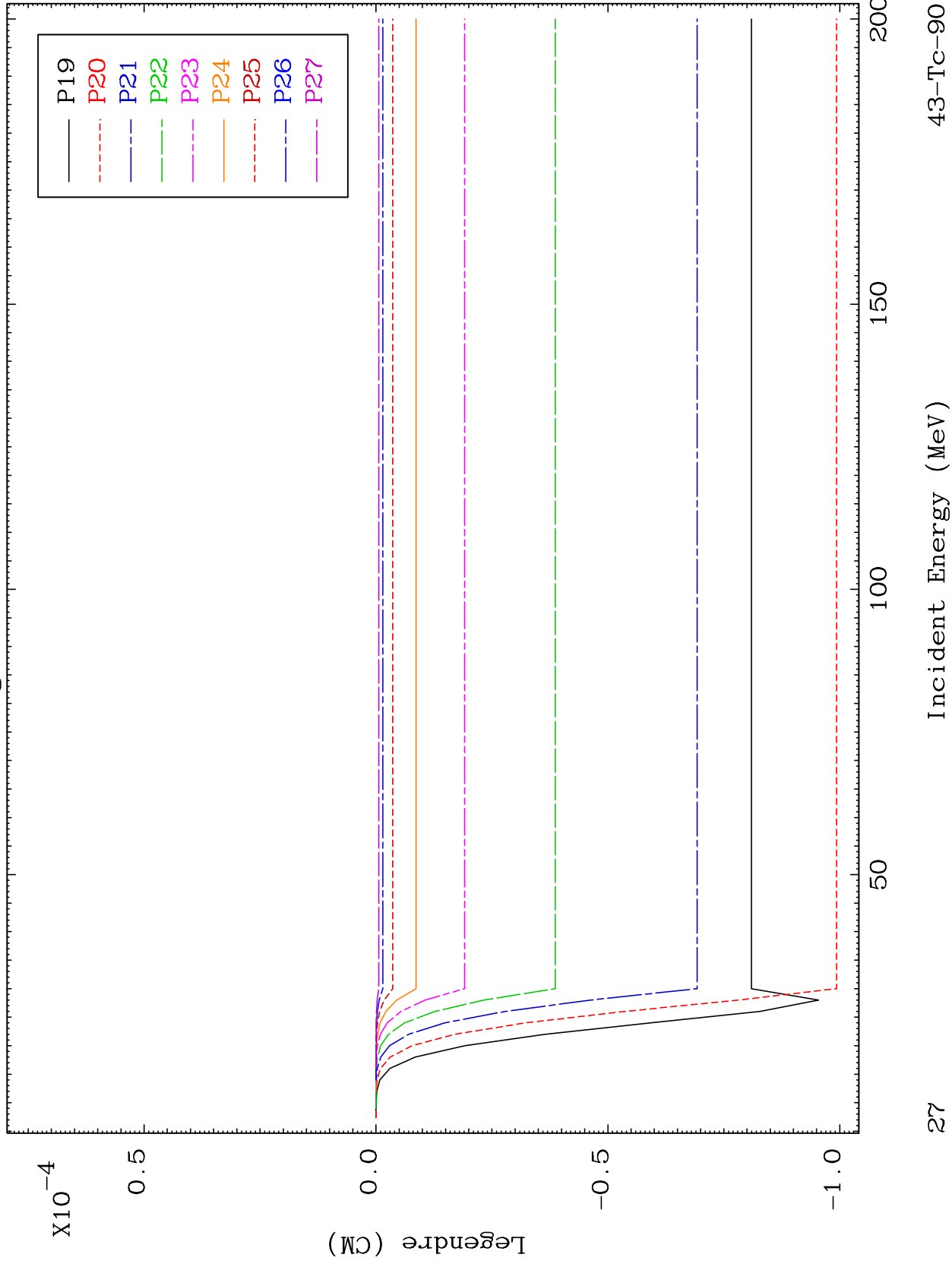
25



MAT 4298

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

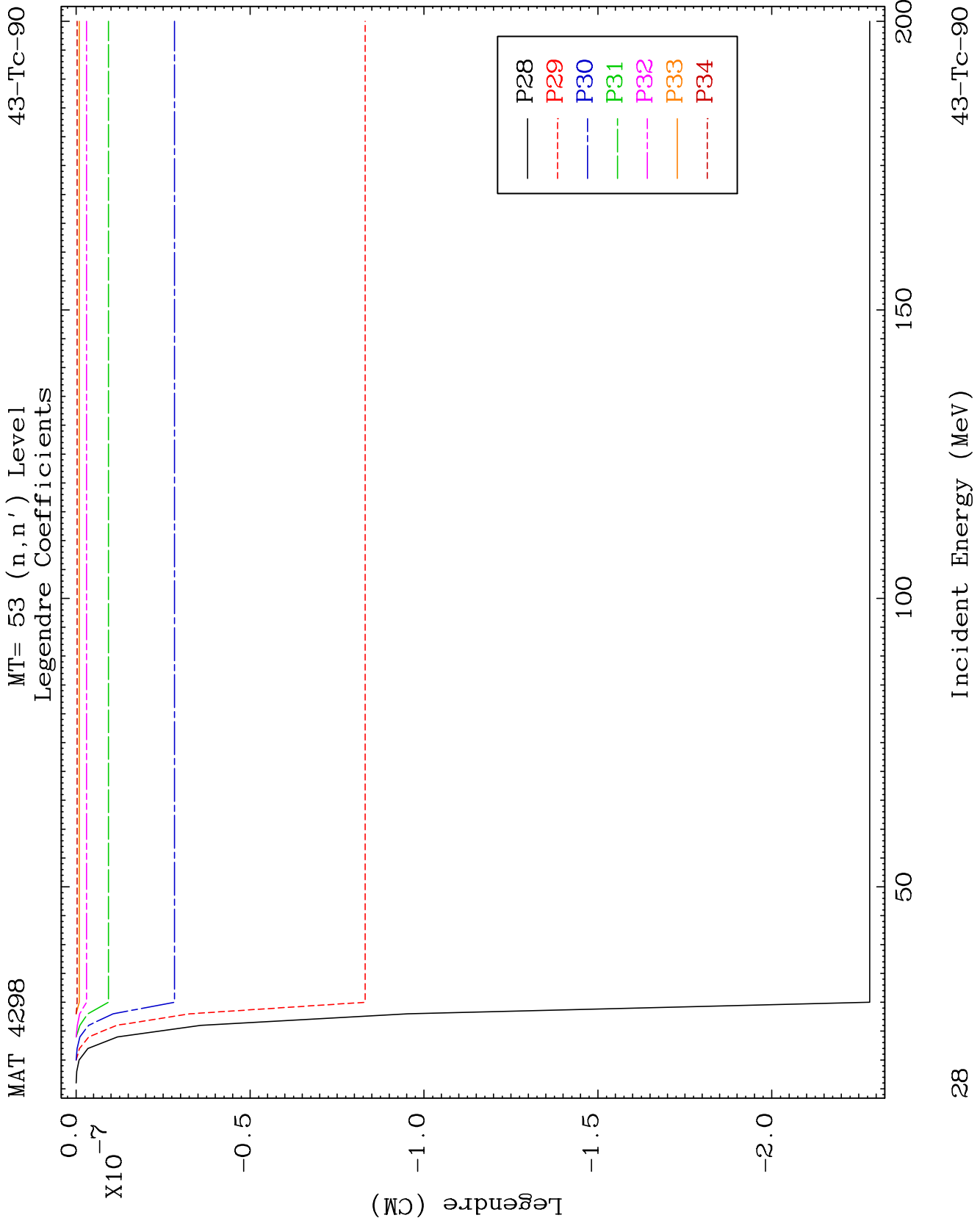
43-Tc-90



27

Incident Energy (MeV)

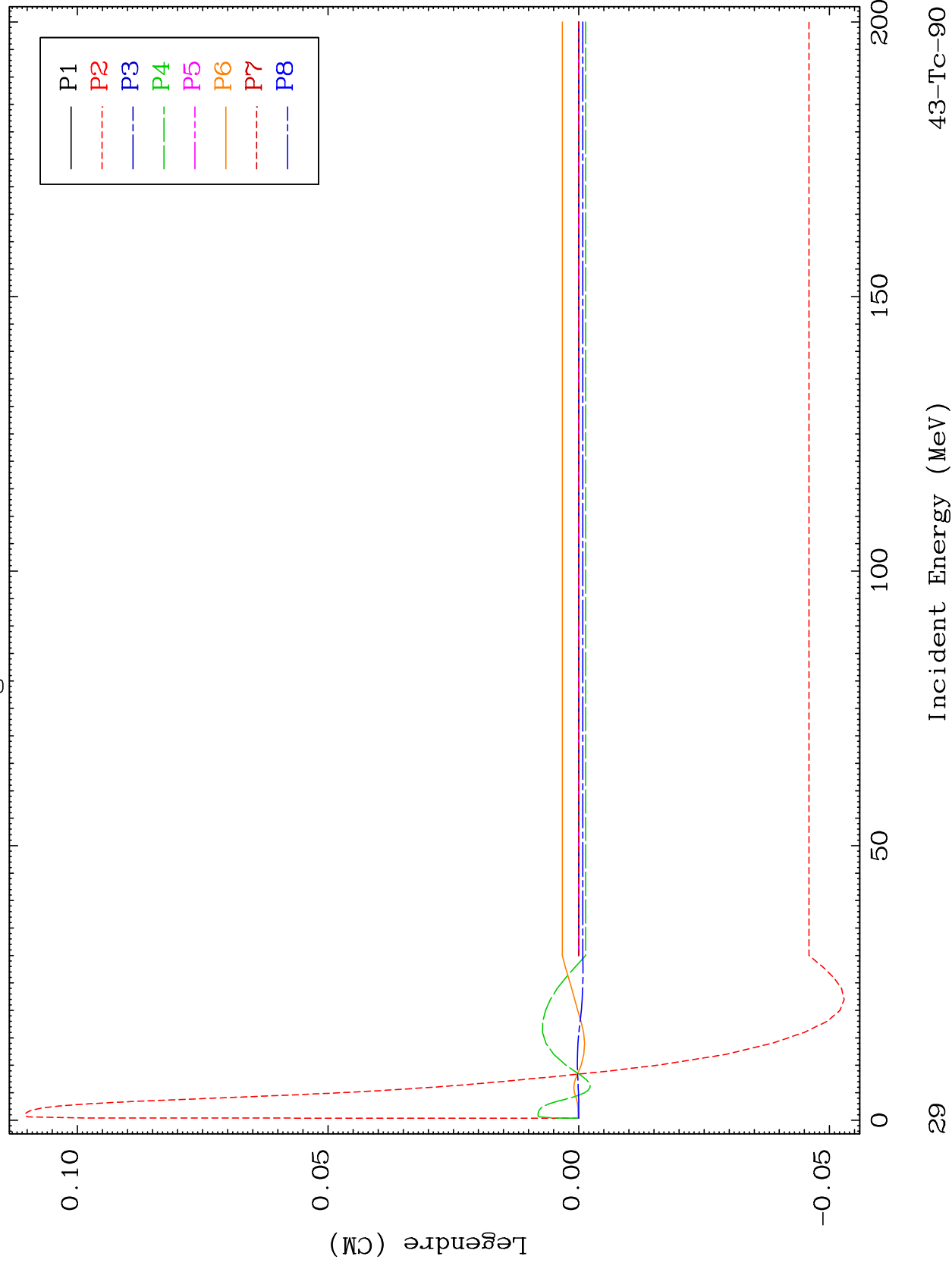
43-Tc-90



MAT 4298

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

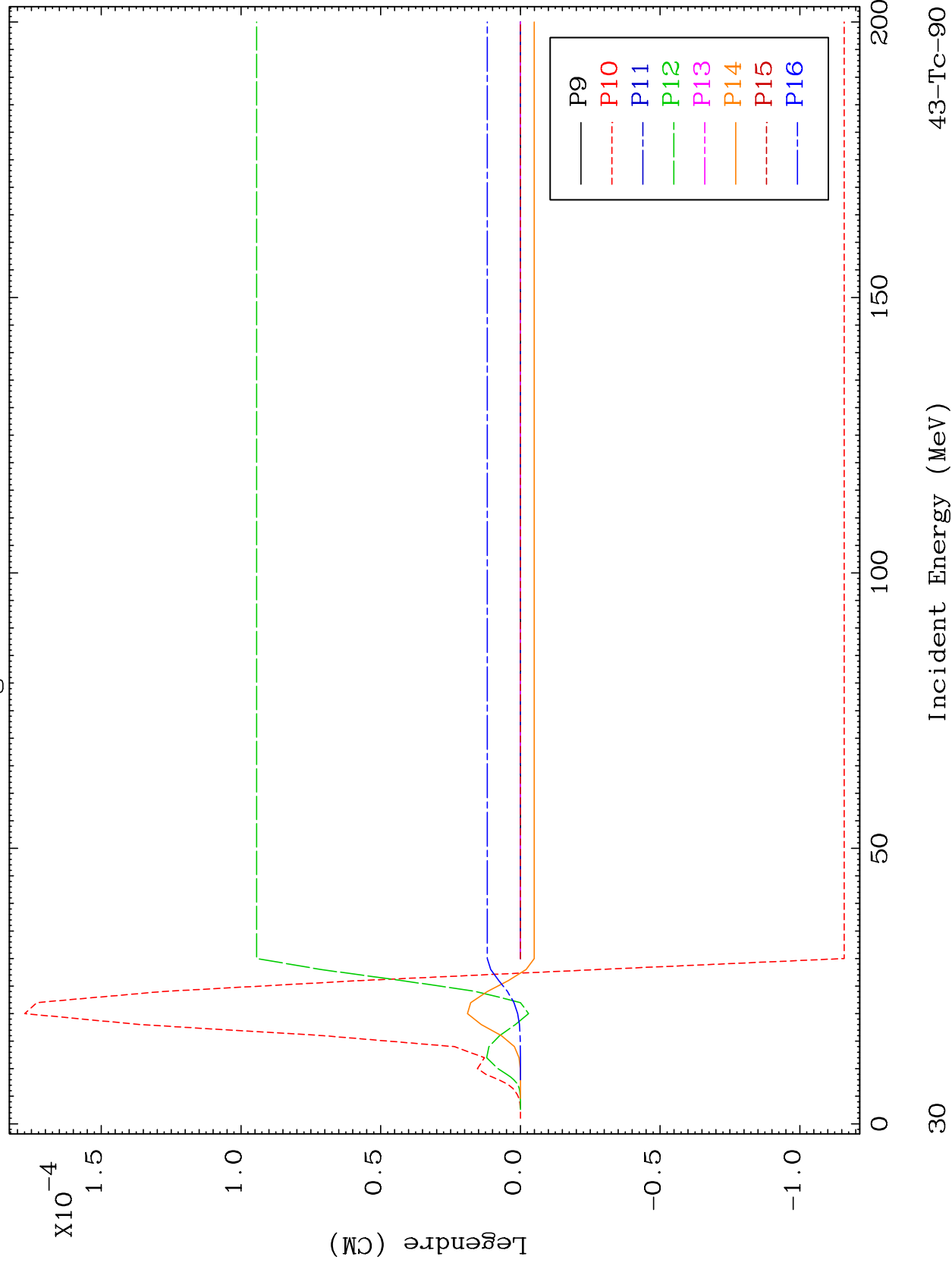
43-Tc-90



MAT 4298

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

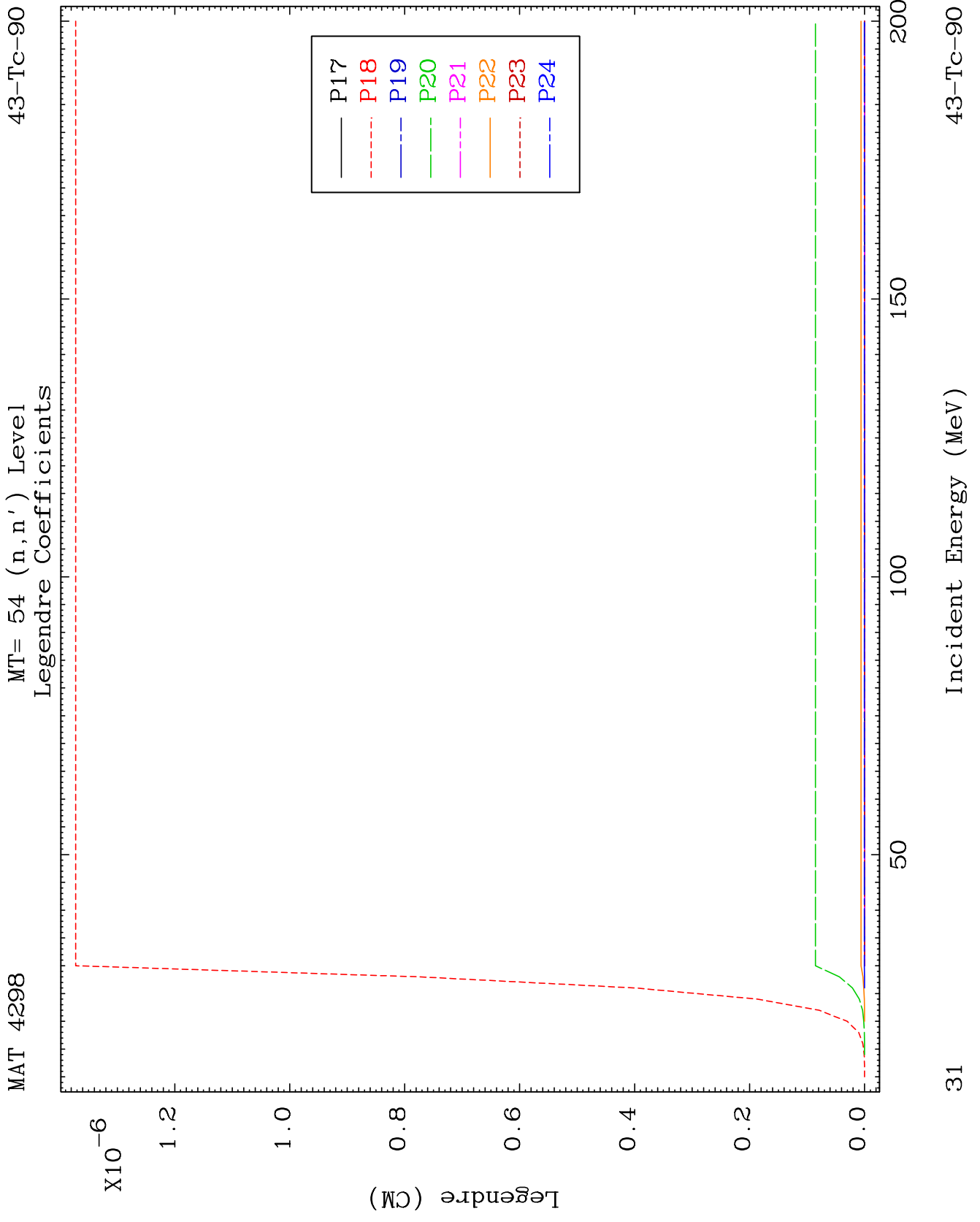
43-Tc-90

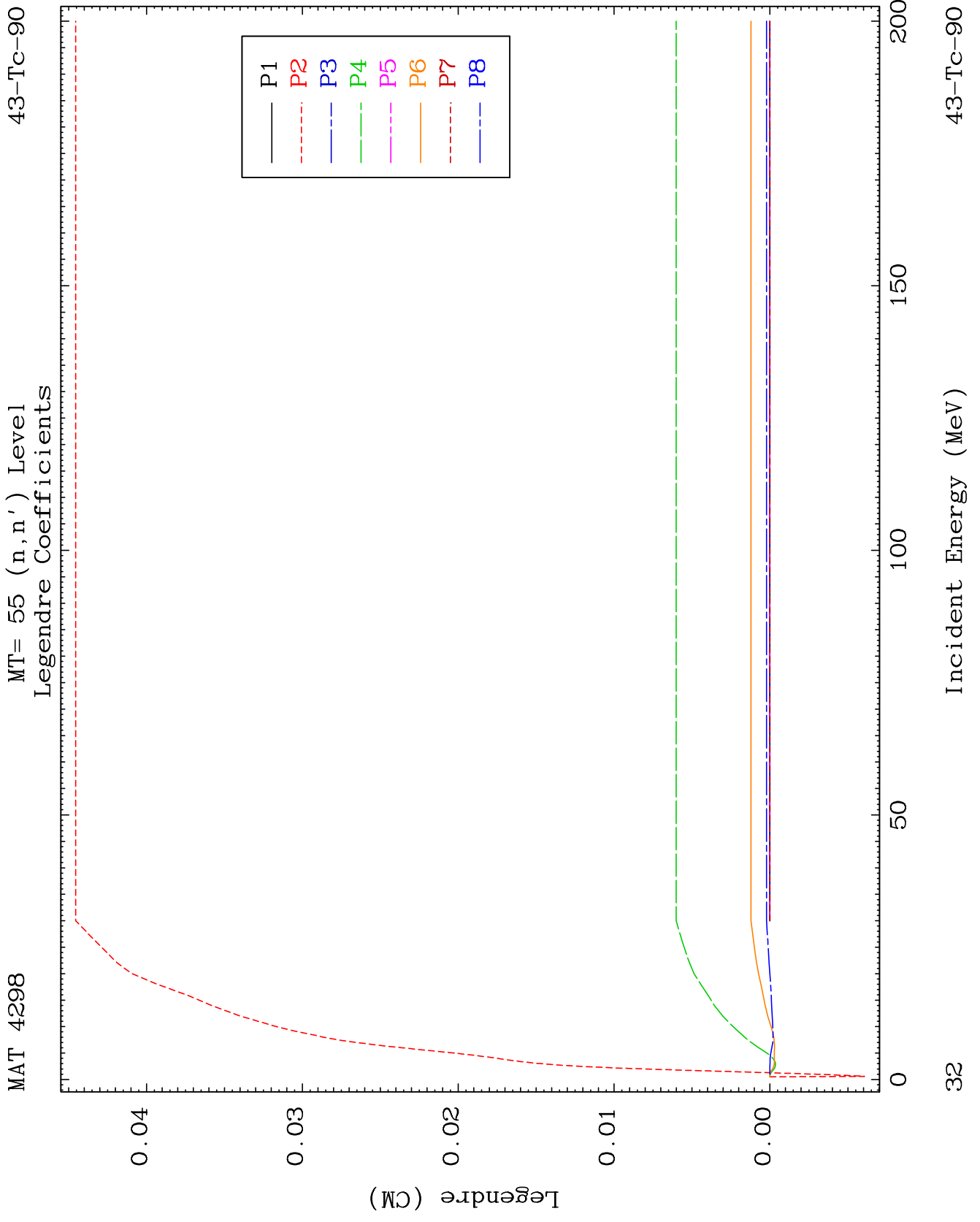


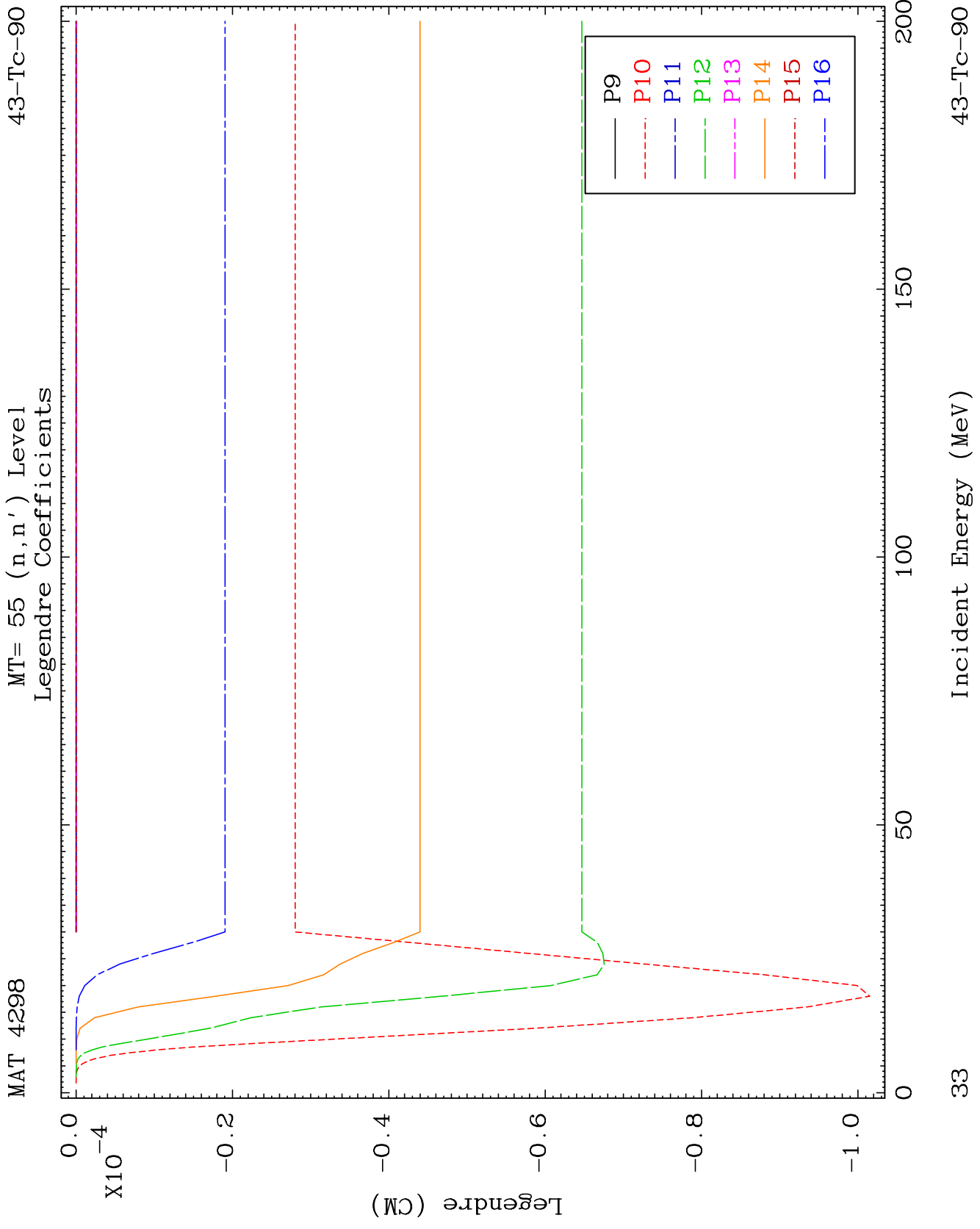
43-Tc-90

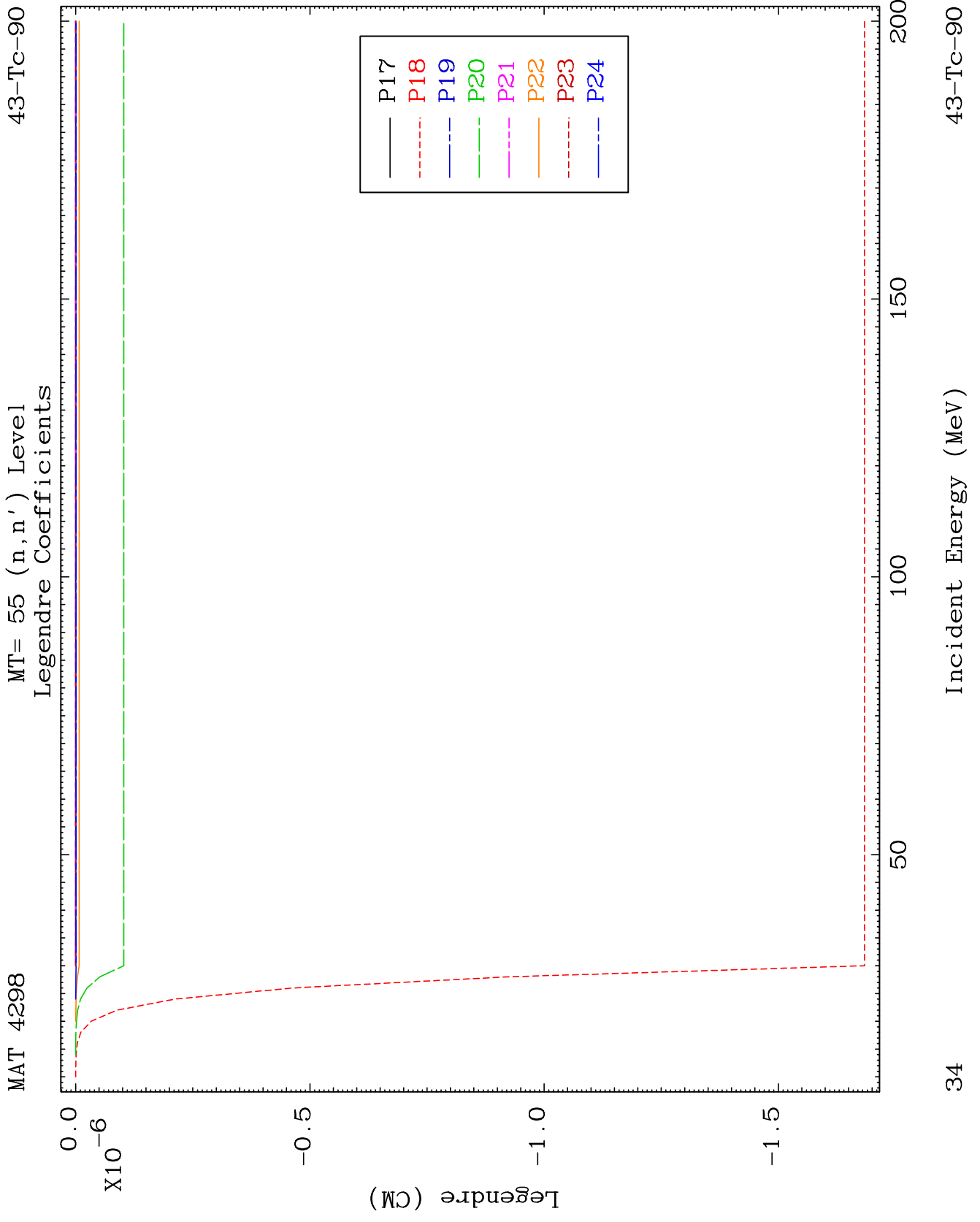
Incident Energy (MeV)

30





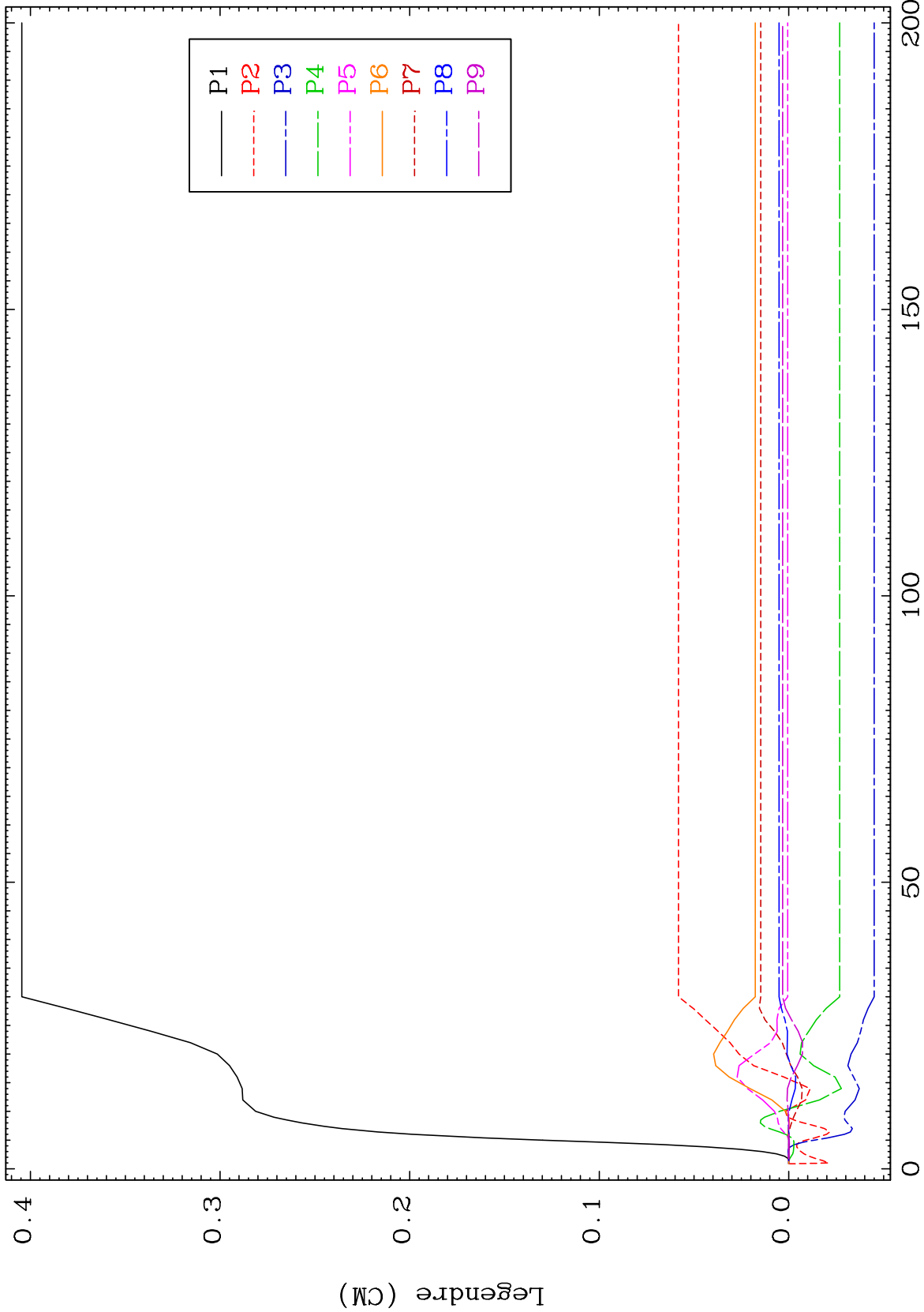




MAT 4298

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

43-Tc-90



43-Tc-90

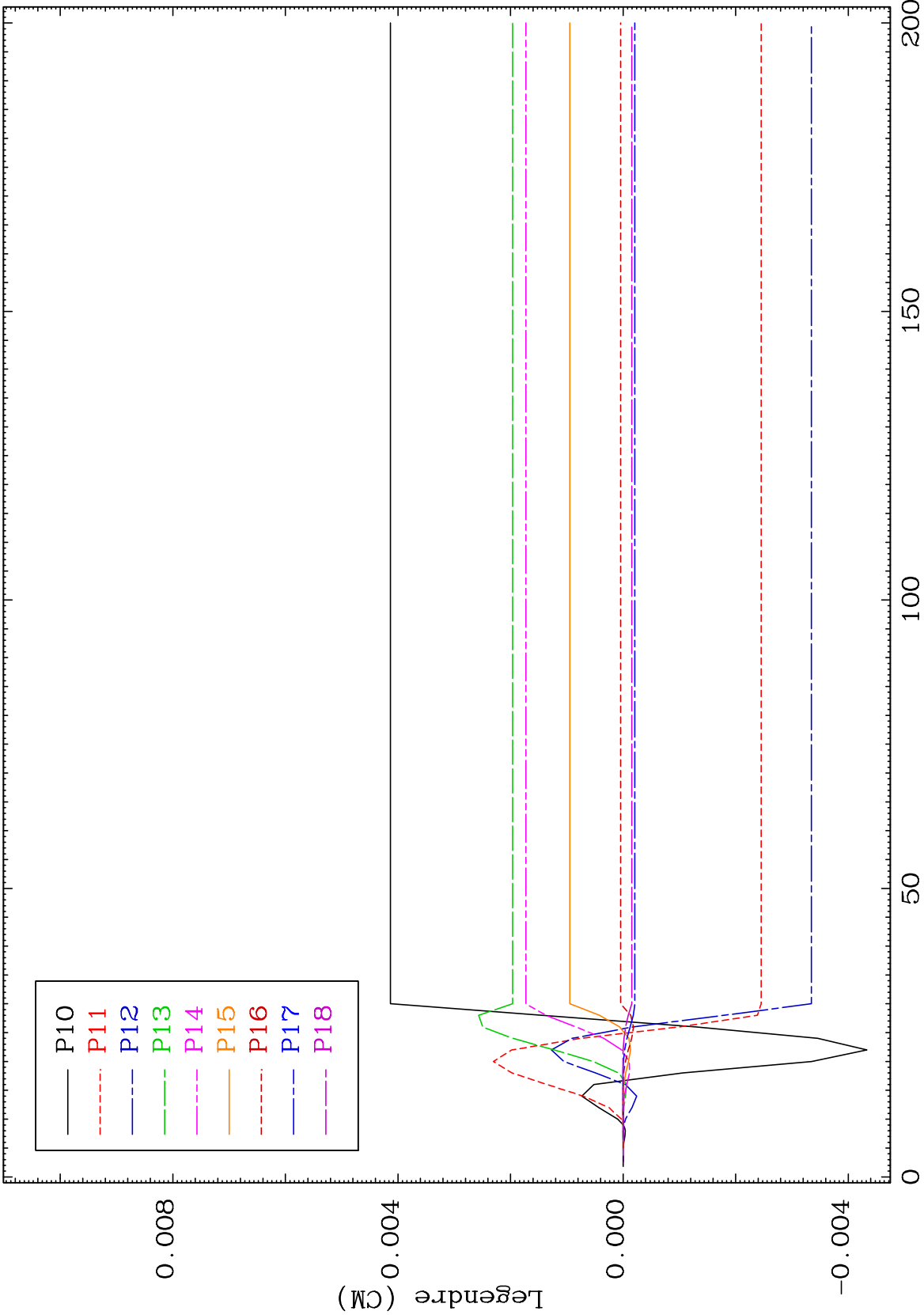
Incident Energy (MeV)

35

MAT 4298

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

43-Tc-90



36

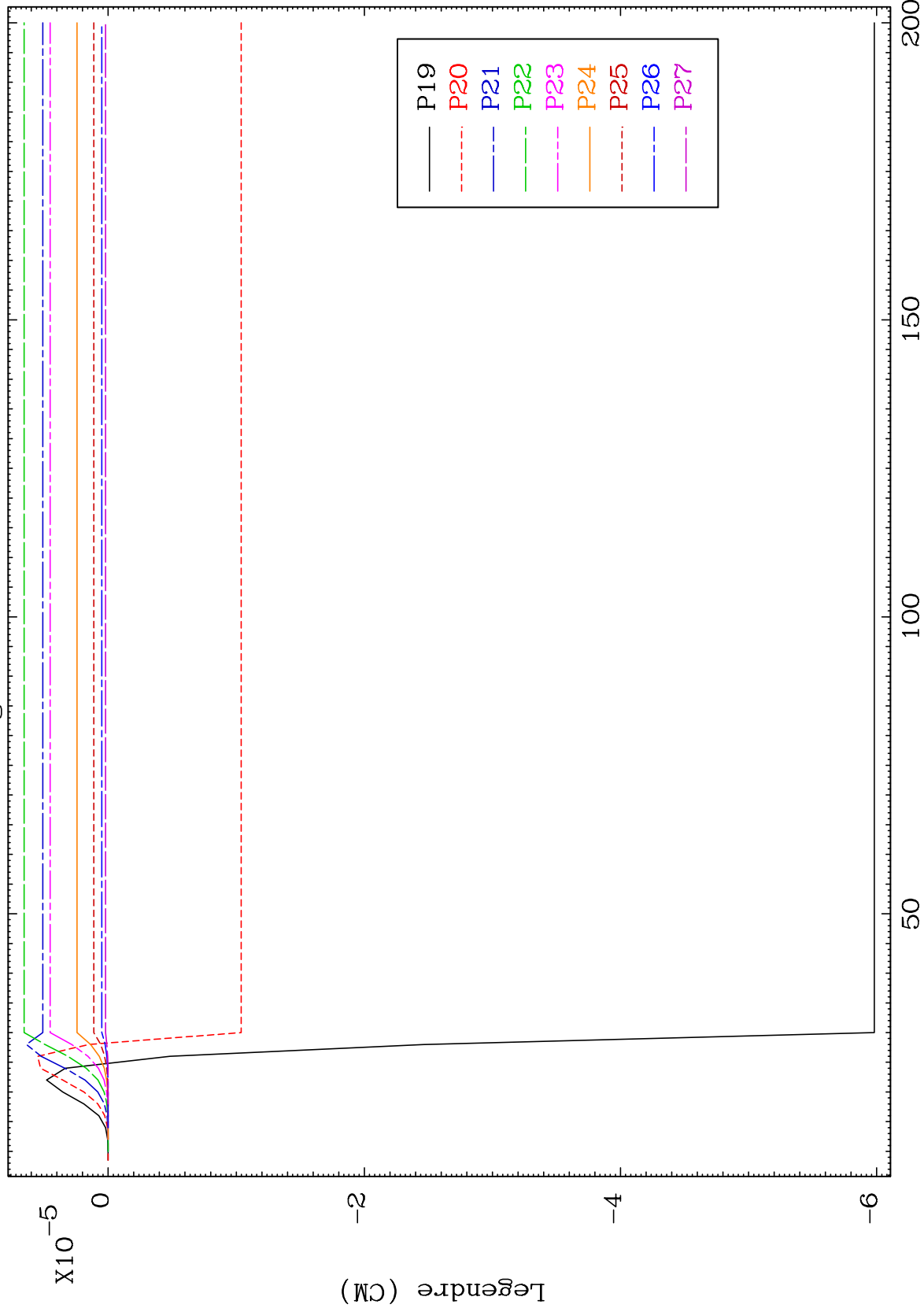
Incident Energy (MeV)

43-Tc-90

MAT 4298

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

43-Tc-90



37

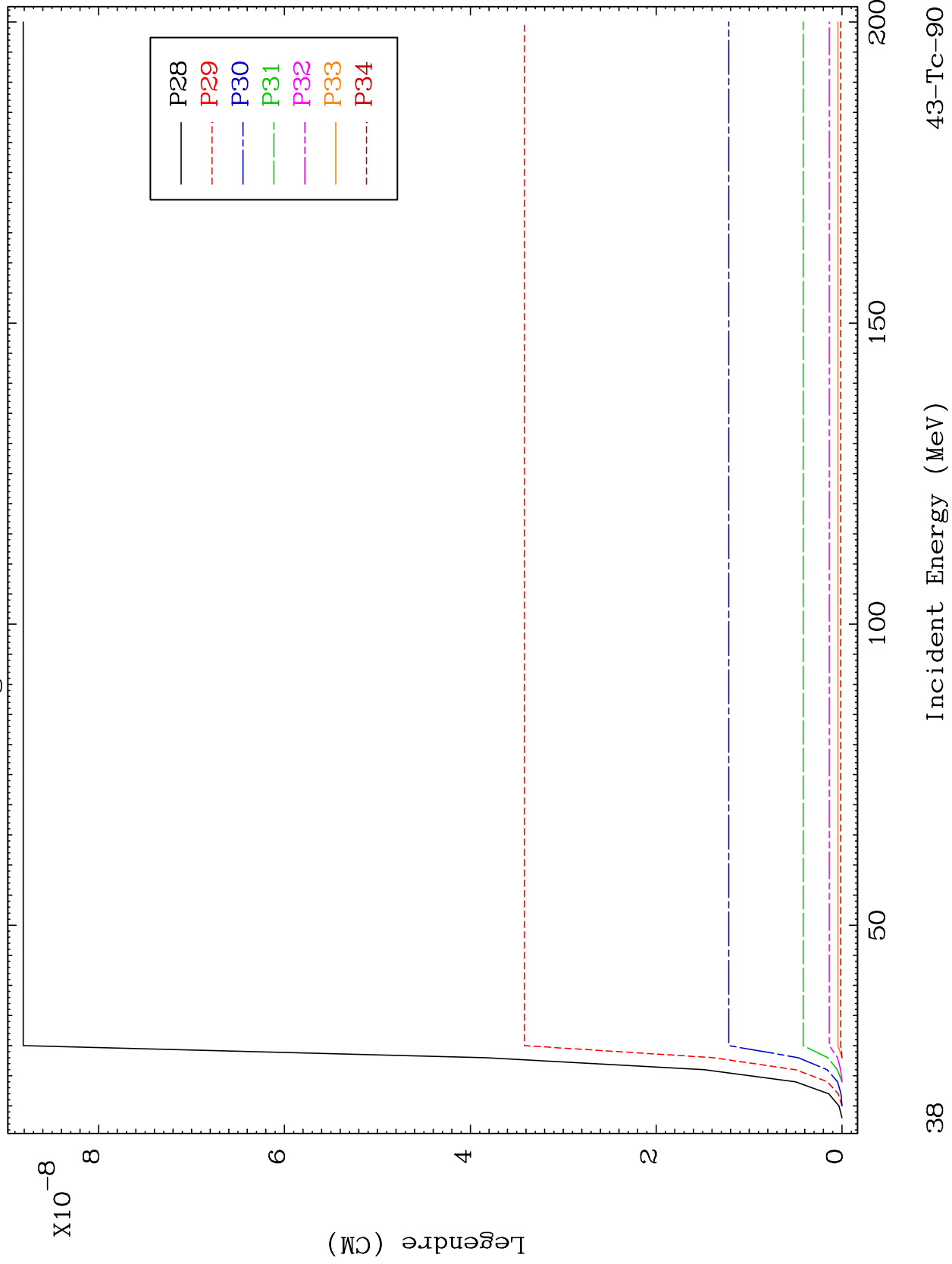
Incident Energy (MeV)

43-Tc-90

MAT 4298

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

43-Tc-90



38

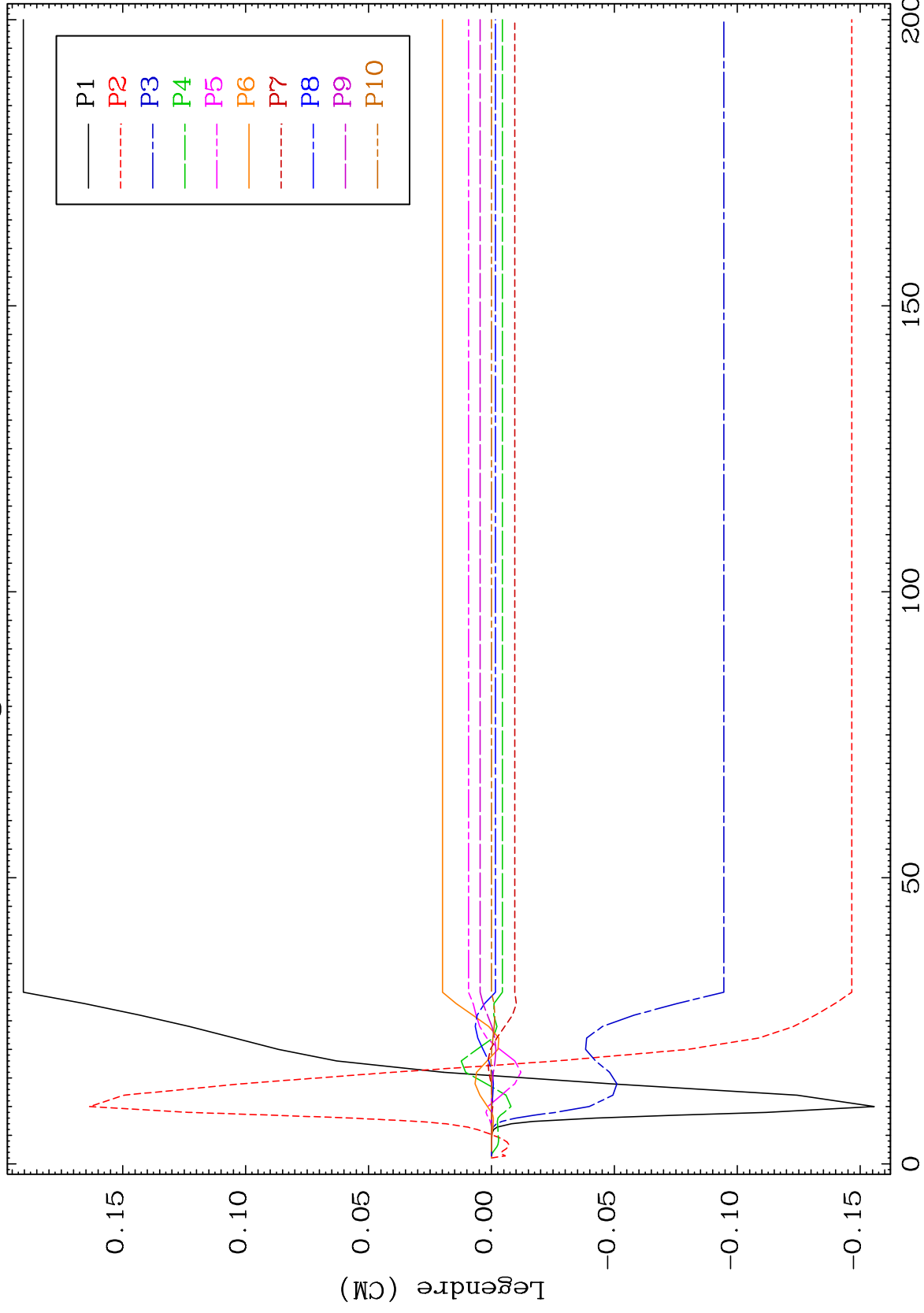
Incident Energy (MeV)

43-Tc-90

MAT 4298

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

43-Tc-90



39

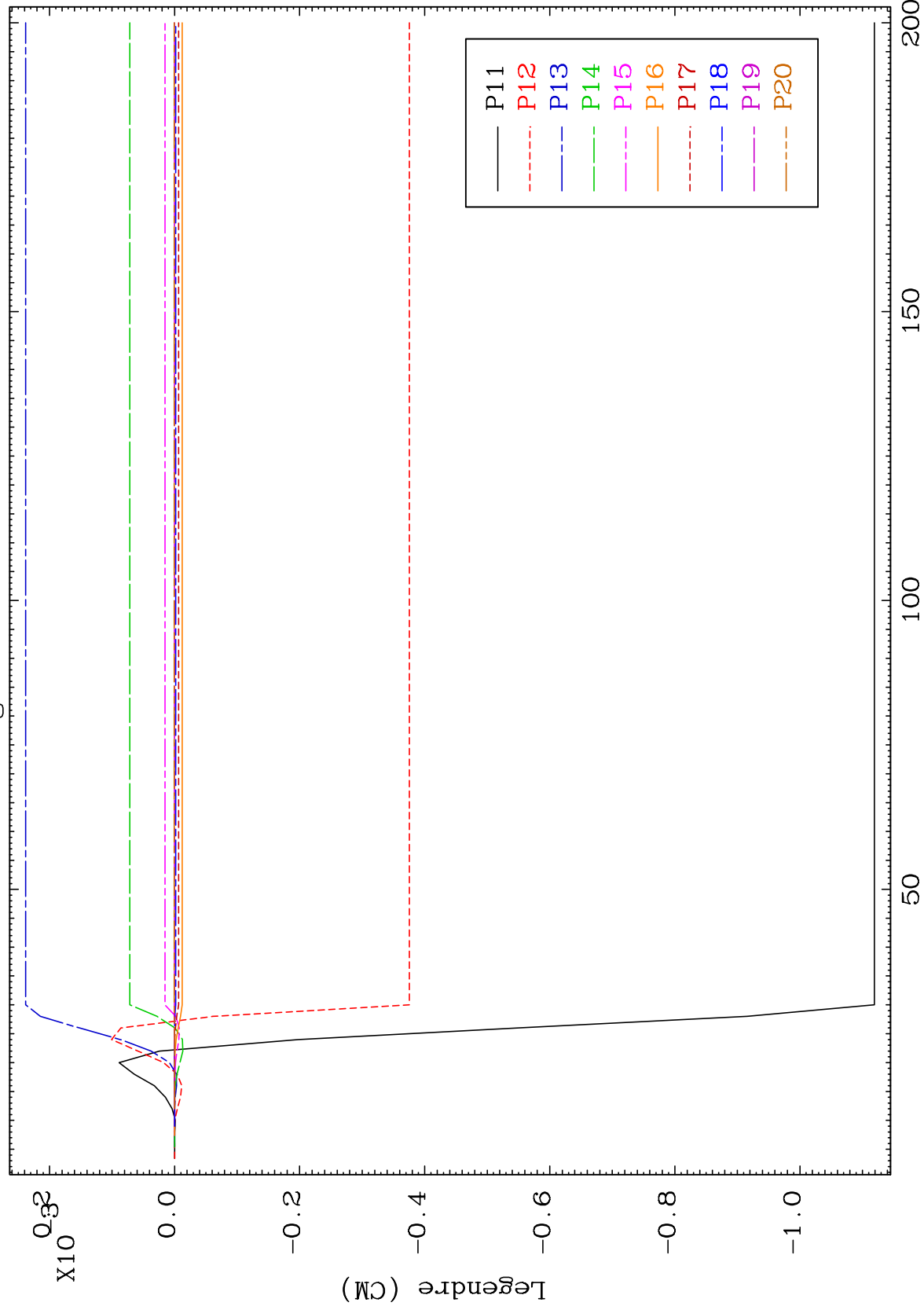
Incident Energy (MeV)

43-Tc-90

MAT 4298

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

43-Tc-90



40

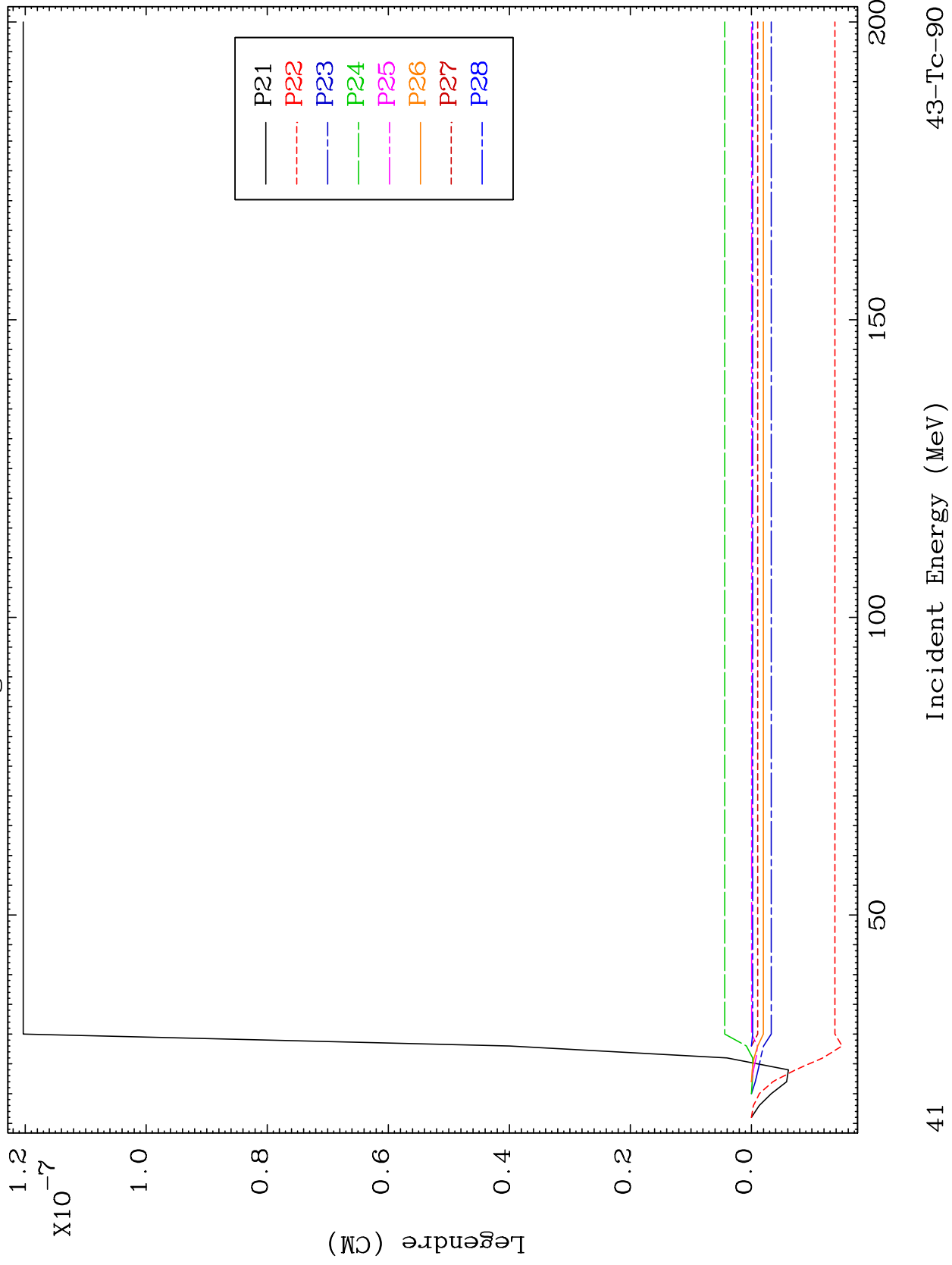
Incident Energy (MeV)

43-Tc-90

MAT 4298

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

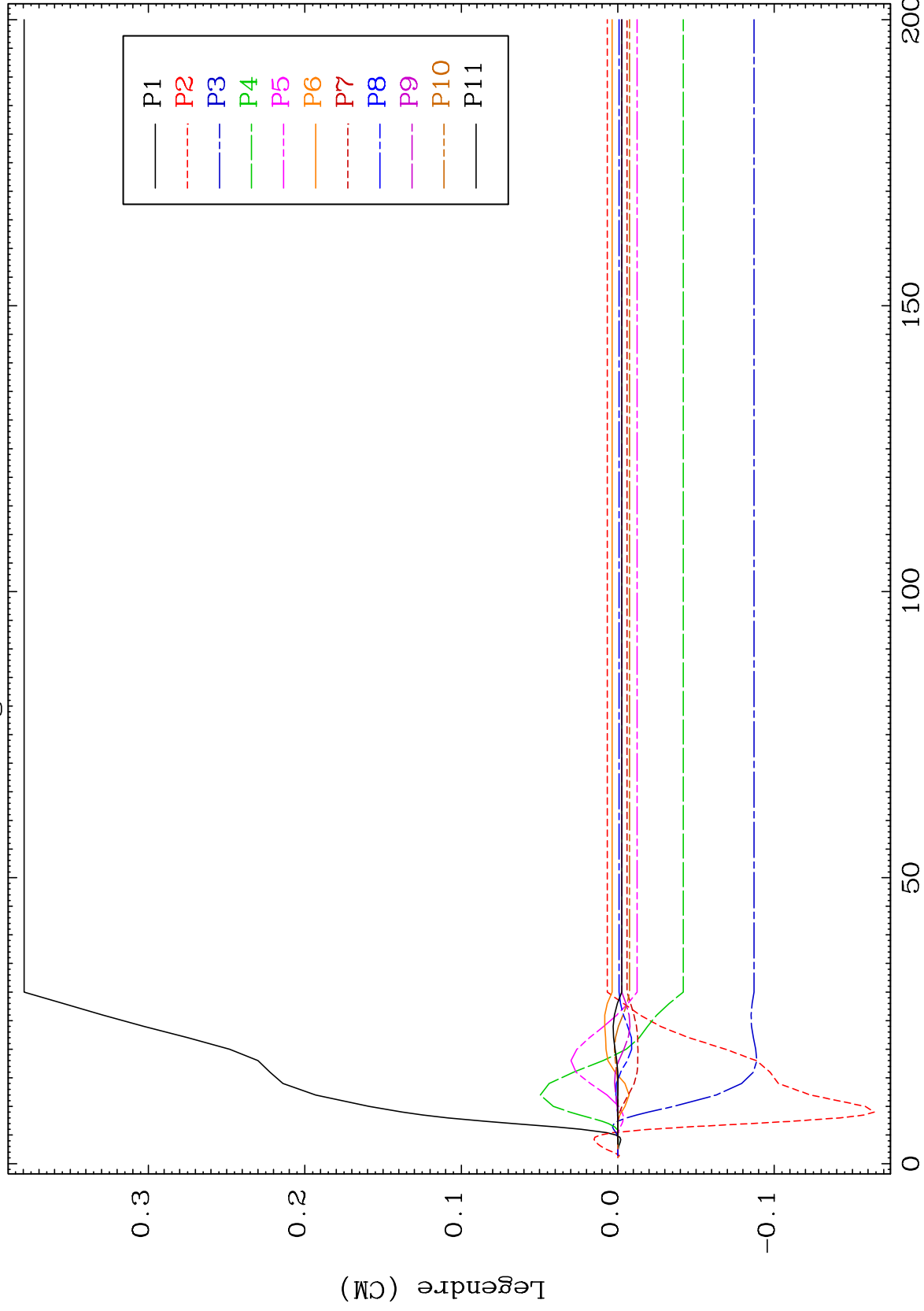
43-Tc-90



MAT 4298

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

43-Tc-90



42

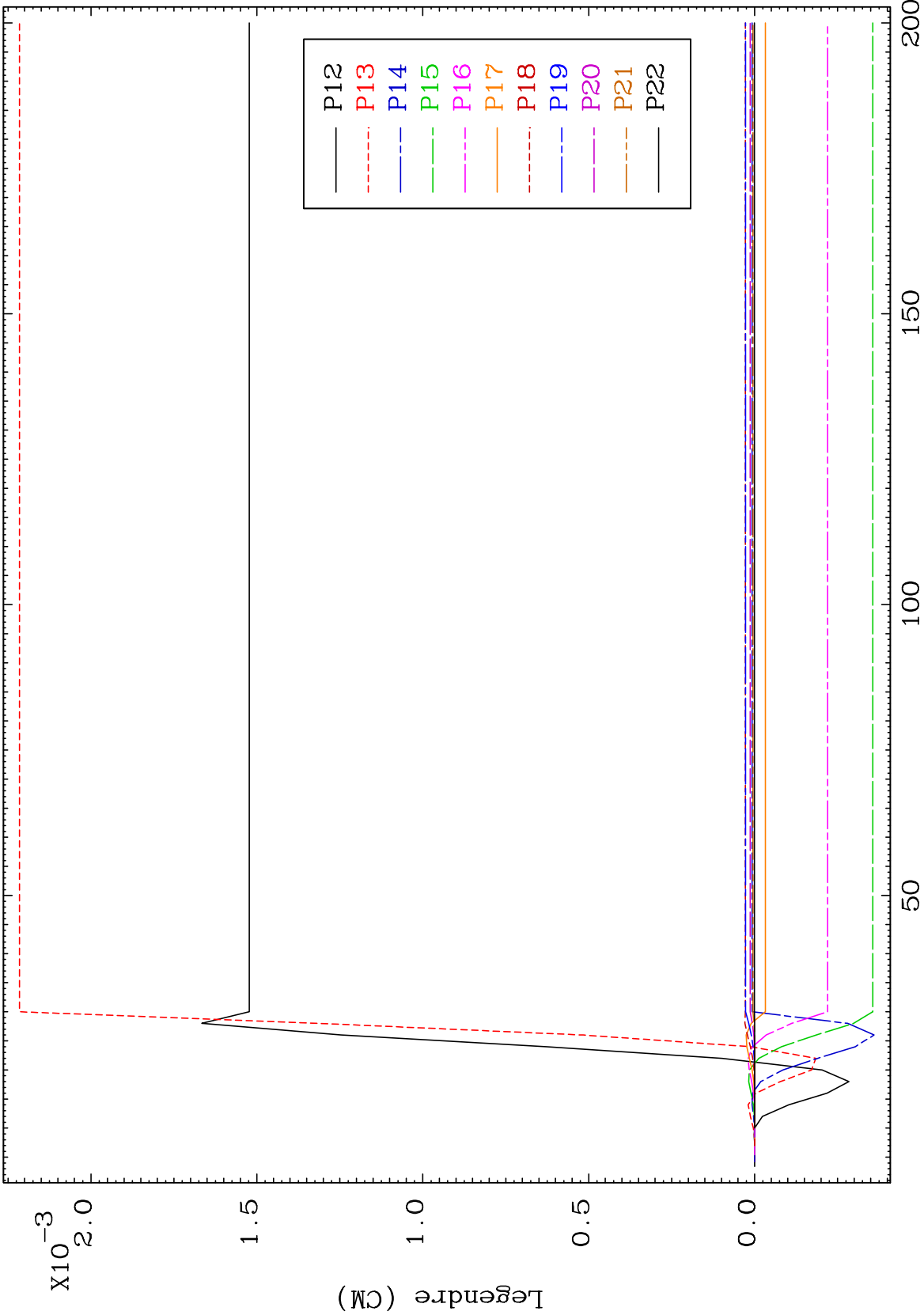
Incident Energy (MeV)

43-Tc-90

MAT 4298

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

43-Tc-90



43

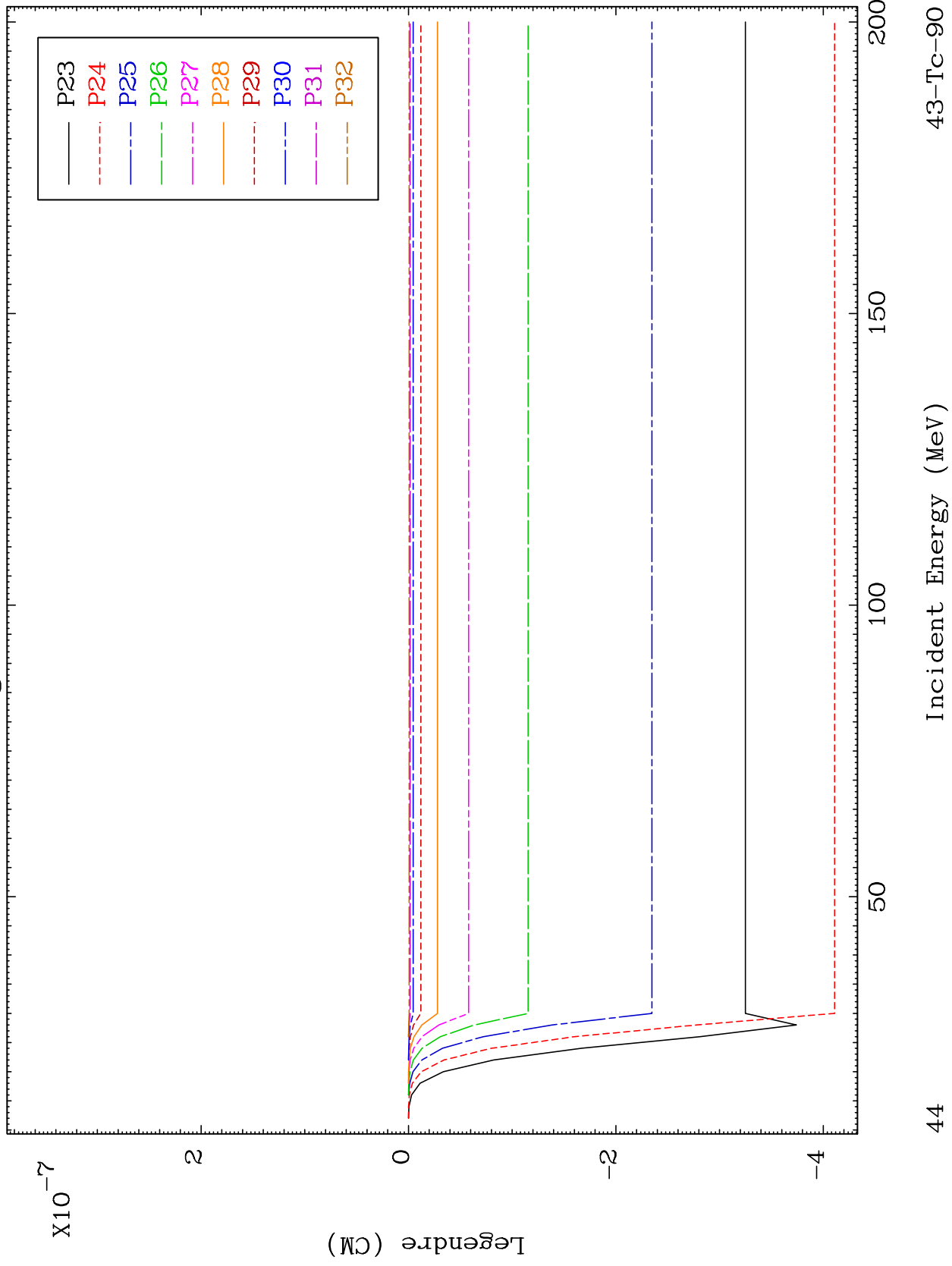
Incident Energy (MeV)

43-Tc-90

MAT 4298

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

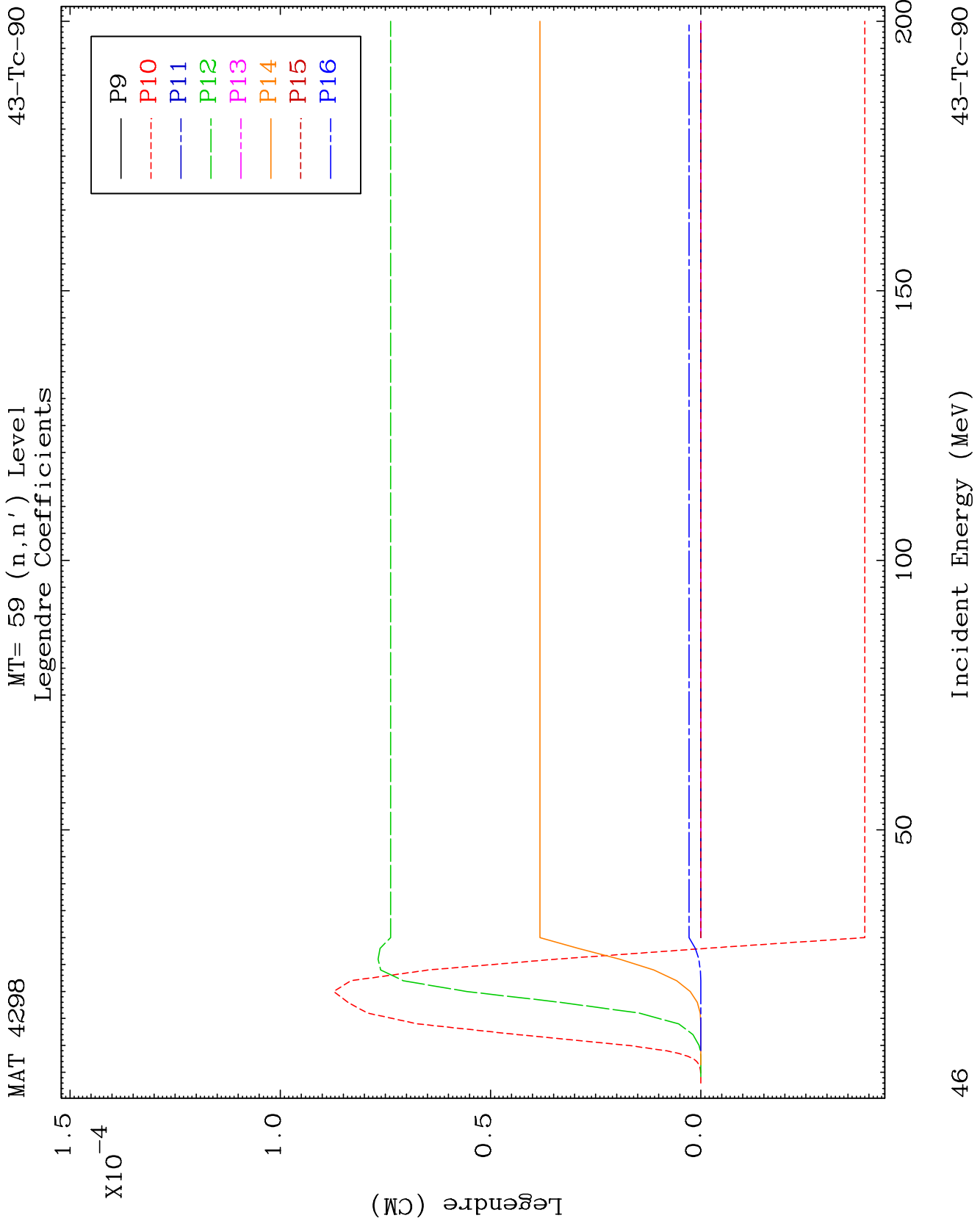
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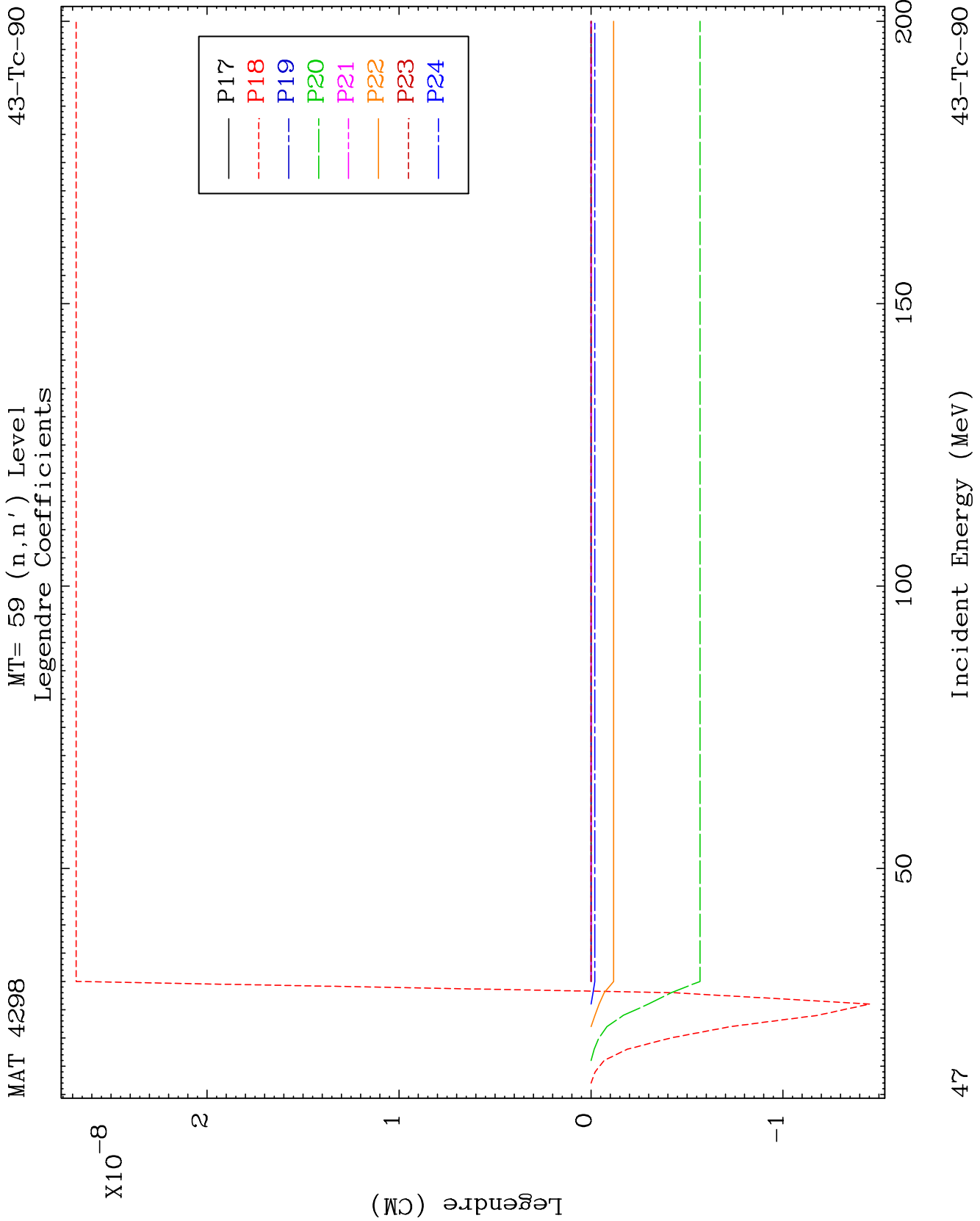


44

Incident Energy (MeV)

43-Tc-90

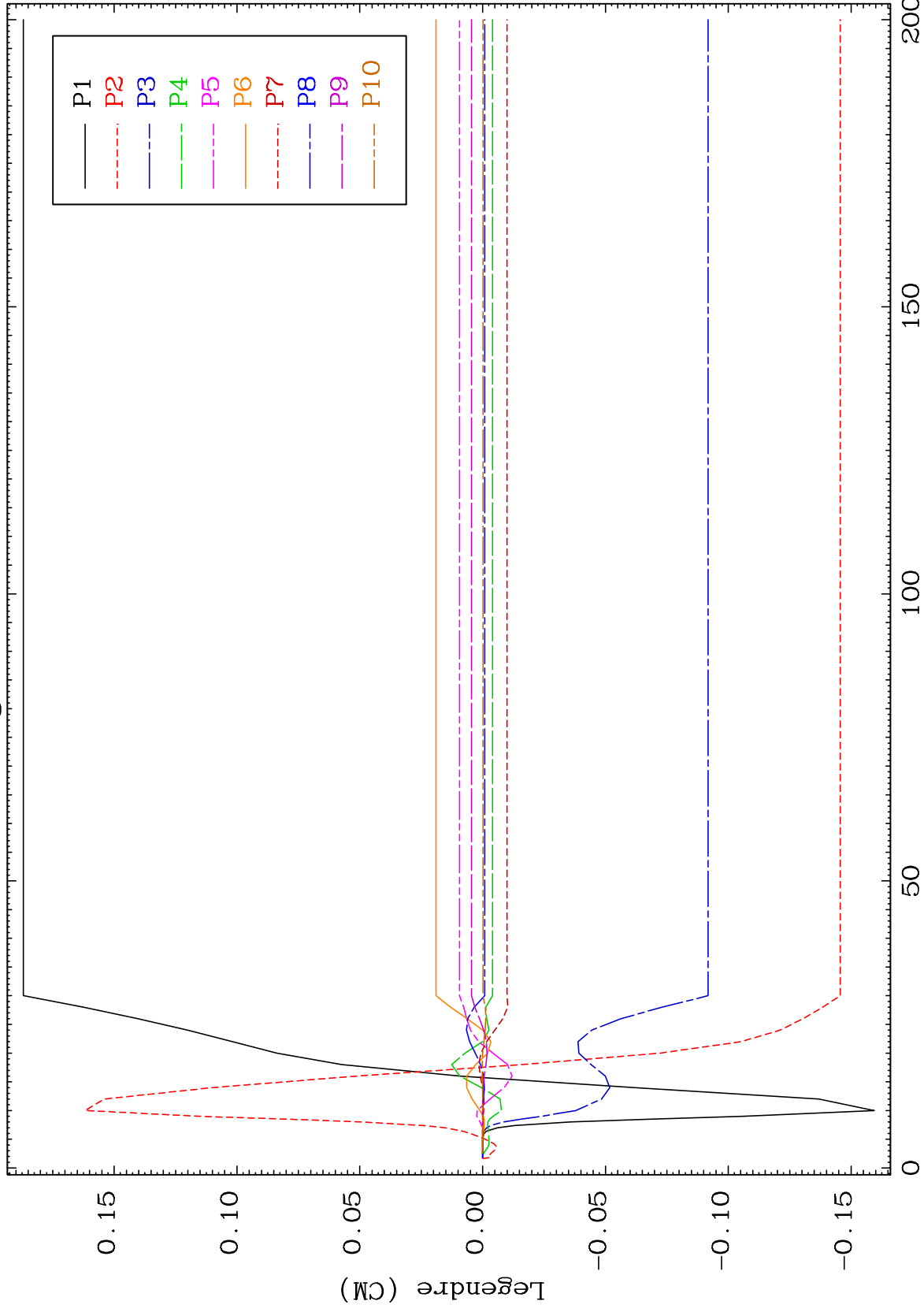




MAT 4298

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

43-Tc-90



48

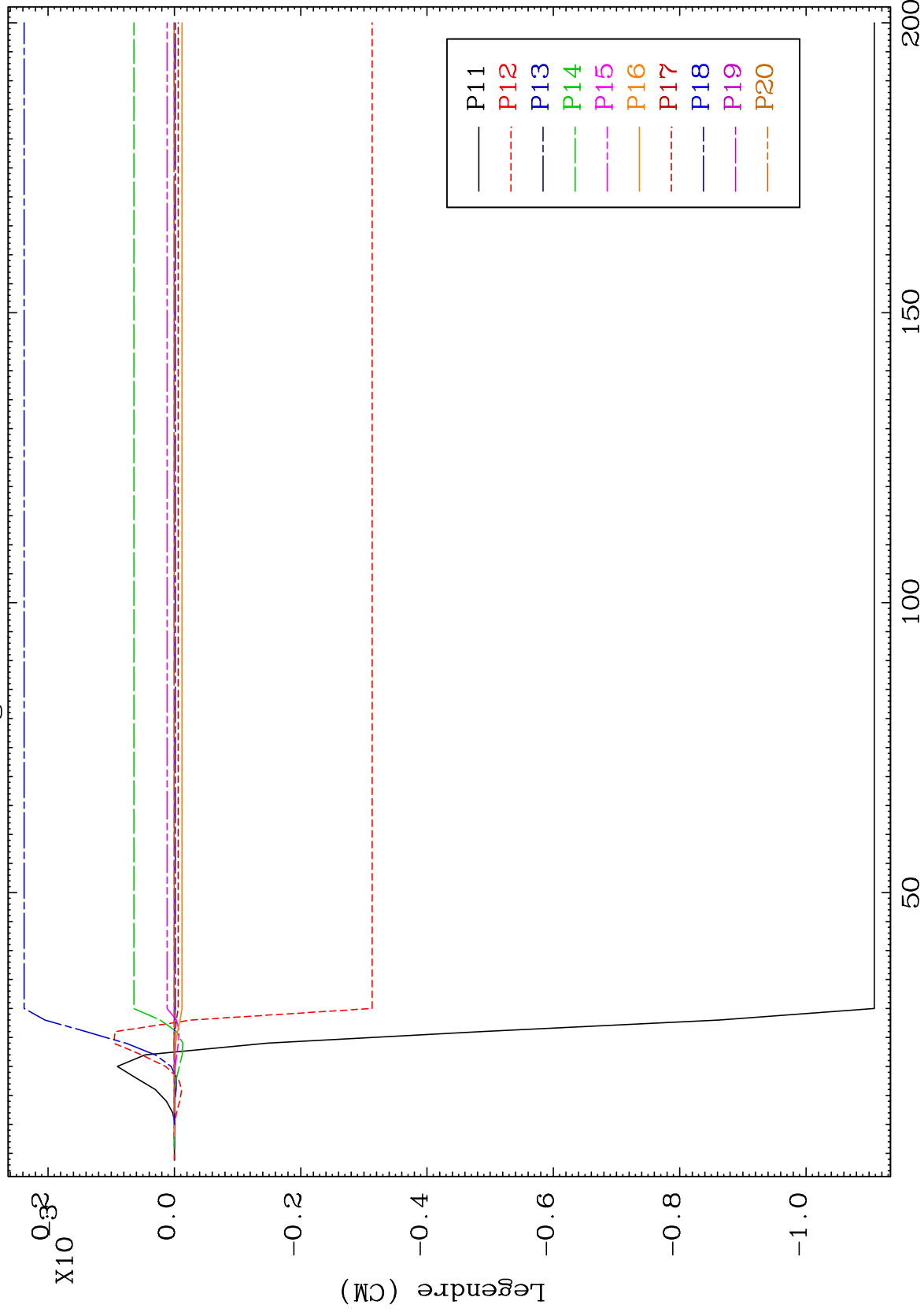
Incident Energy (MeV)

43-Tc-90

MAT 4298

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

43-Tc-90



49

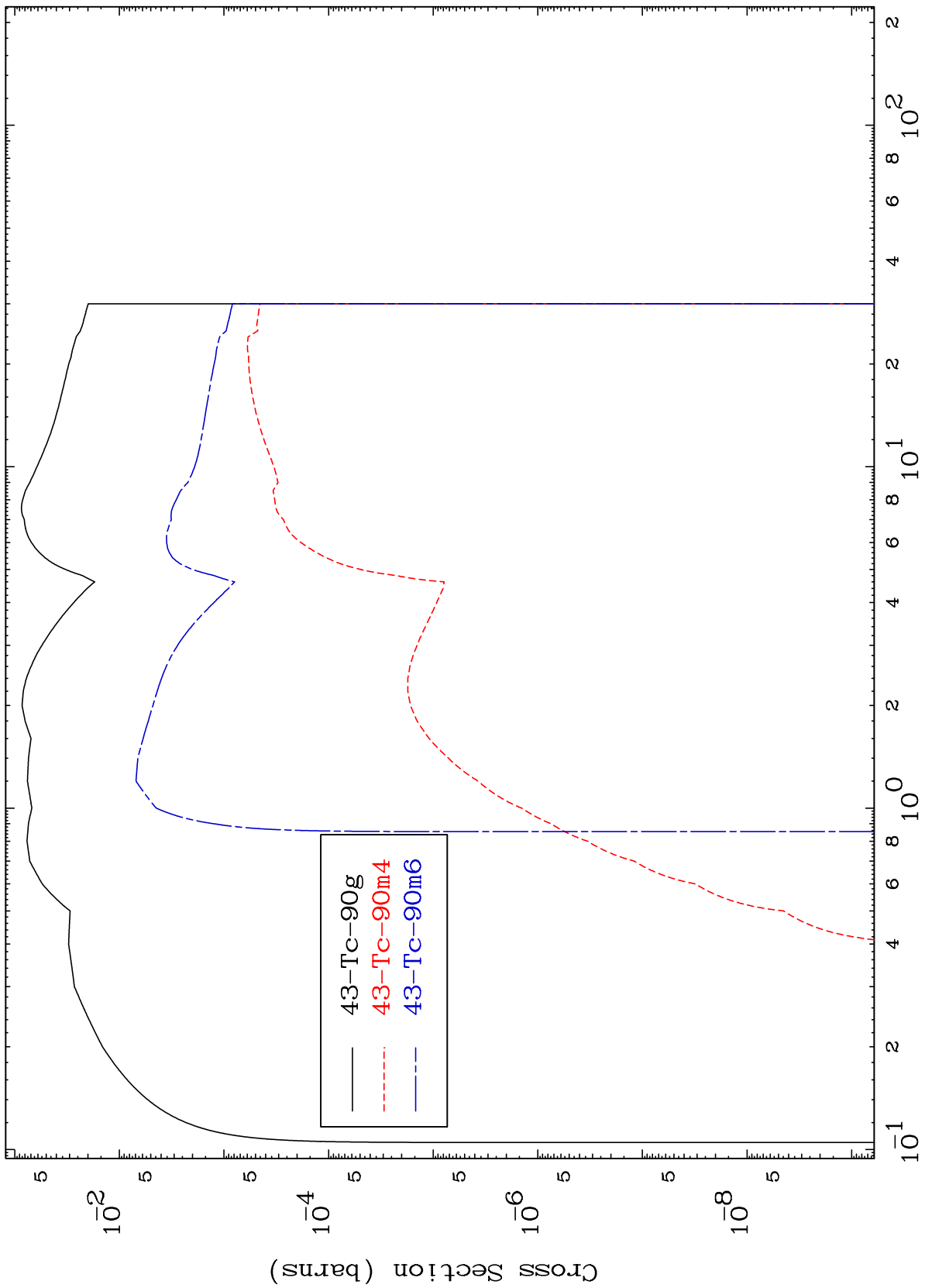
Incident Energy (MeV)

43-Tc-90

MAT 4298

43-Tc-90

Inelastic
Radionuclide Production Cross Section



Incident Energy (MeV)

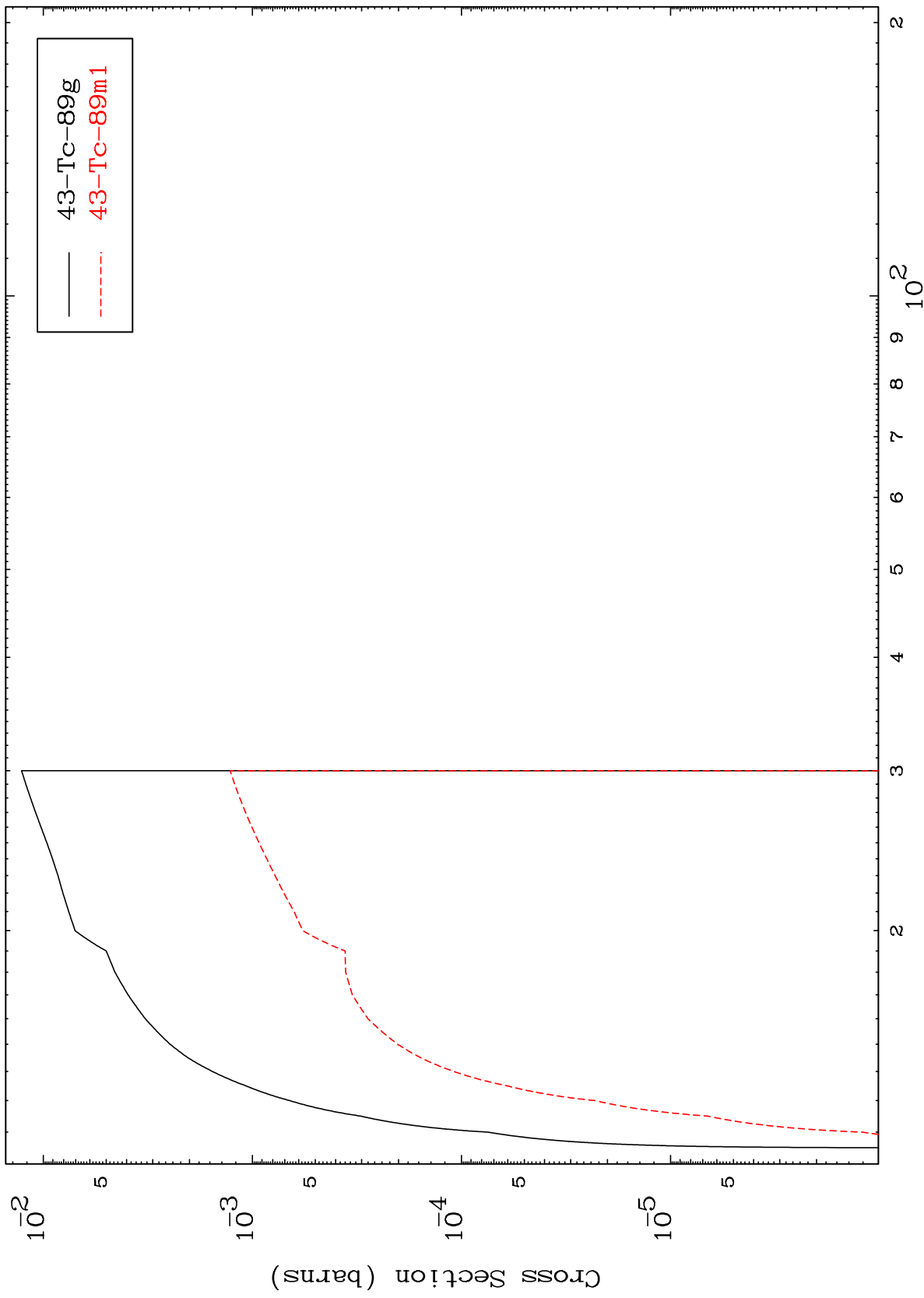
43-Tc-90

51

MAT 4298

43-Tc-90

(n,2n)
Radionuclide Production Cross Section



43-Tc-90

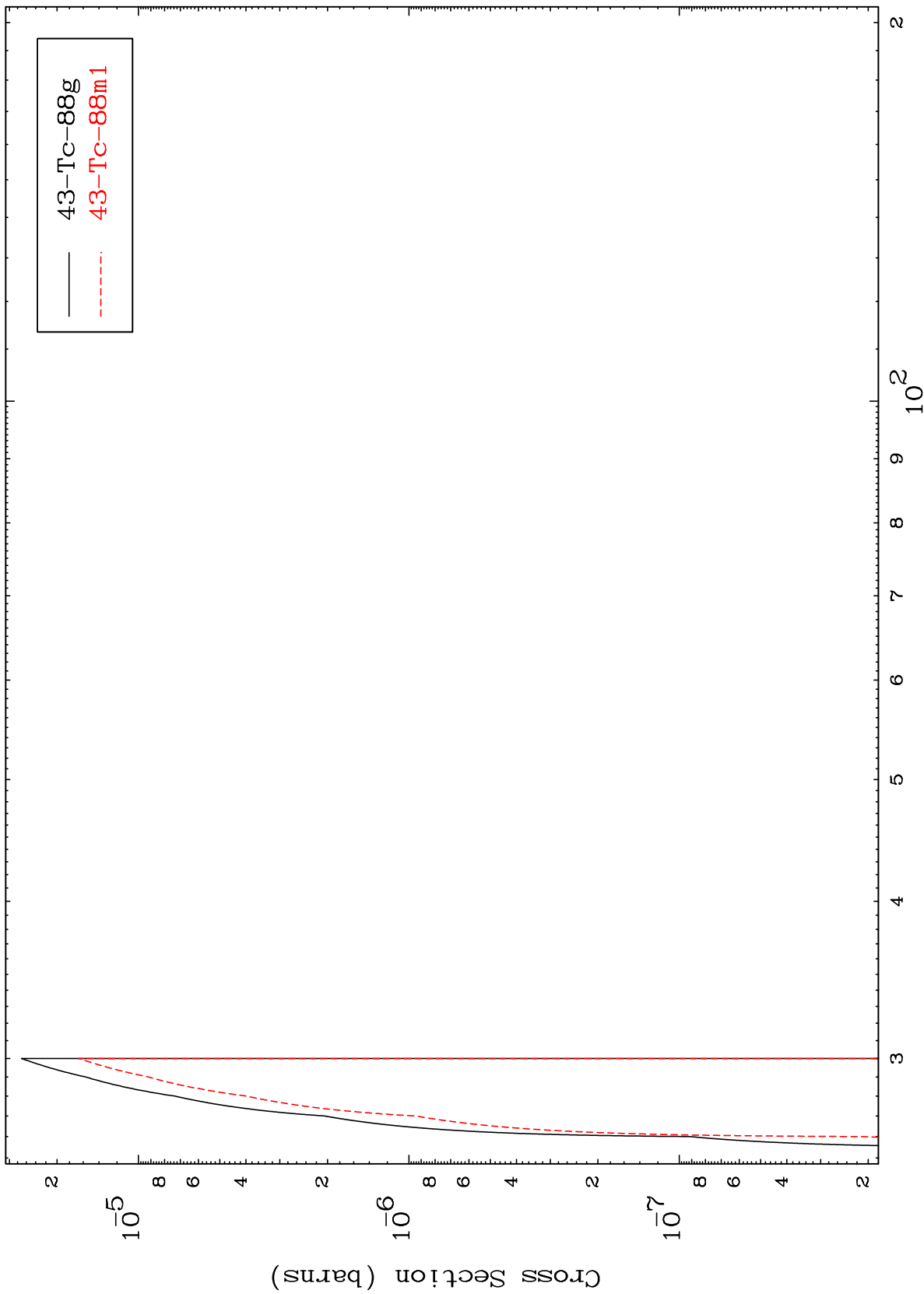
Incident Energy (MeV)

52

MAT 4298

43-Tc-90

(n,3n)
Radionuclide Production Cross Section



43-Tc-88g
43-Tc-88m1

53

43-Tc-90

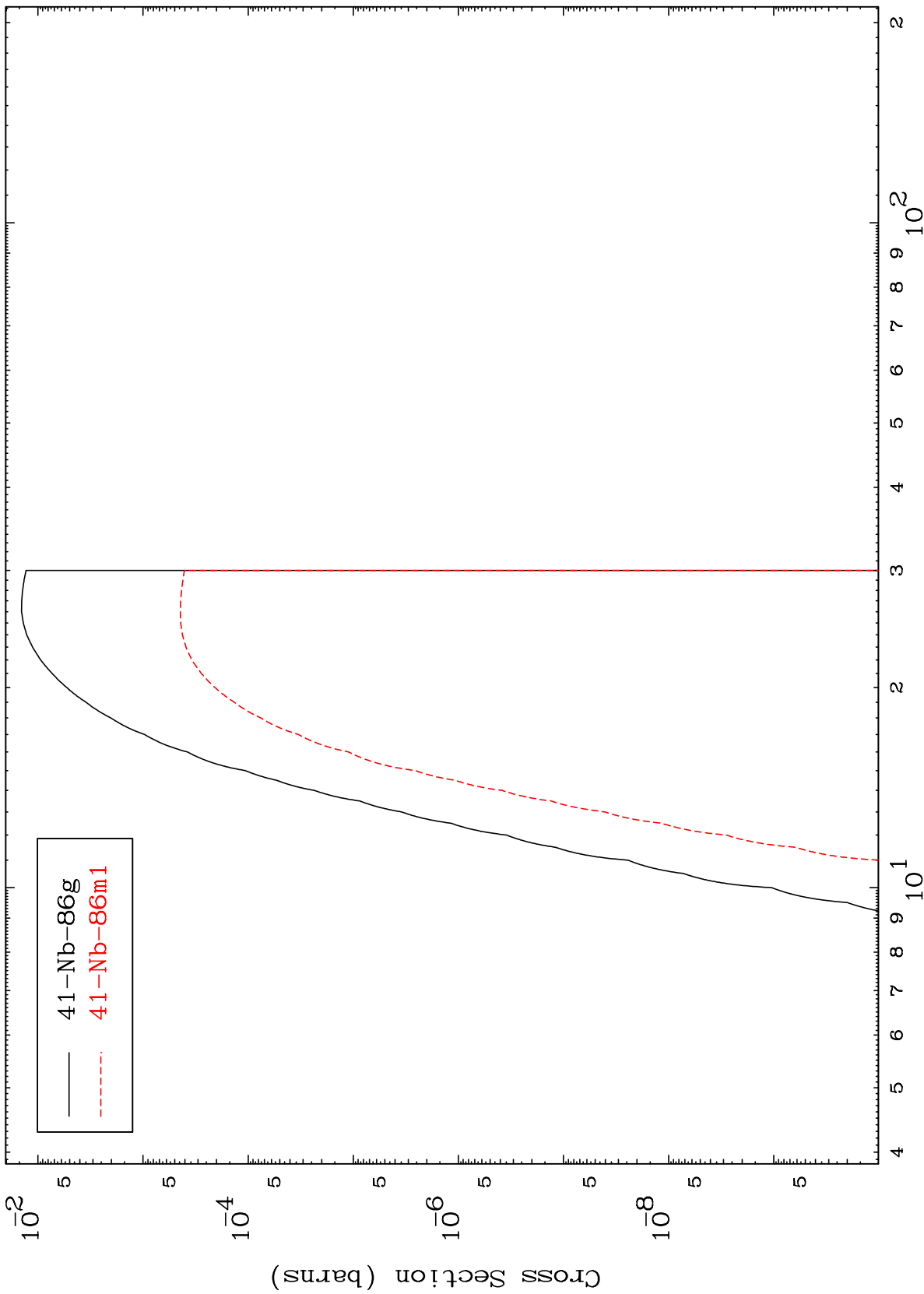
Incident Energy (MeV)

MAT 4298

(n,n') α

43-Tc-90

Radionuclide Production Cross Section



54

Incident Energy (MeV)

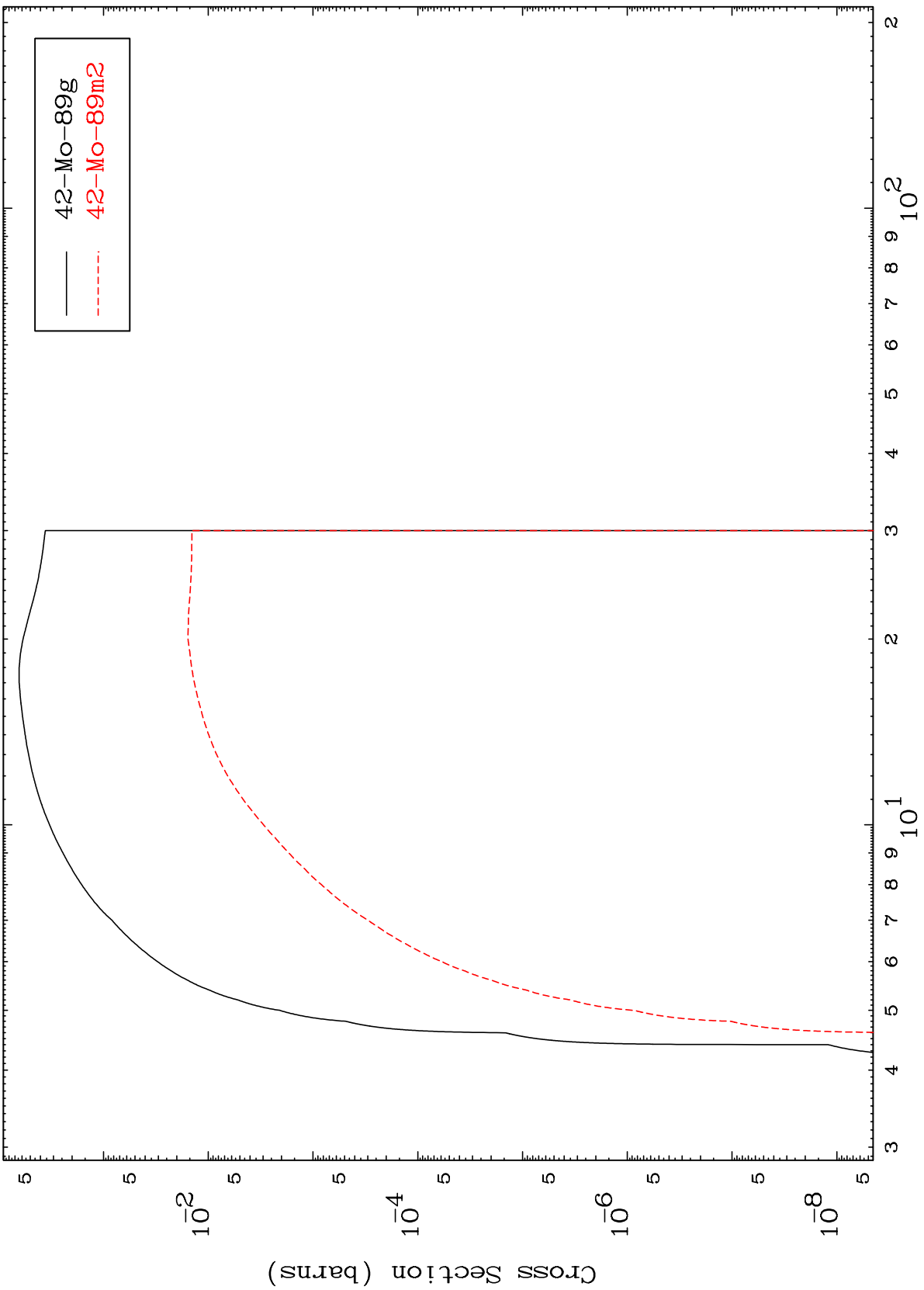
43-Tc-90

MAT 4298

(n,n') p

43-Tc-90

Radionuclide Production Cross Section

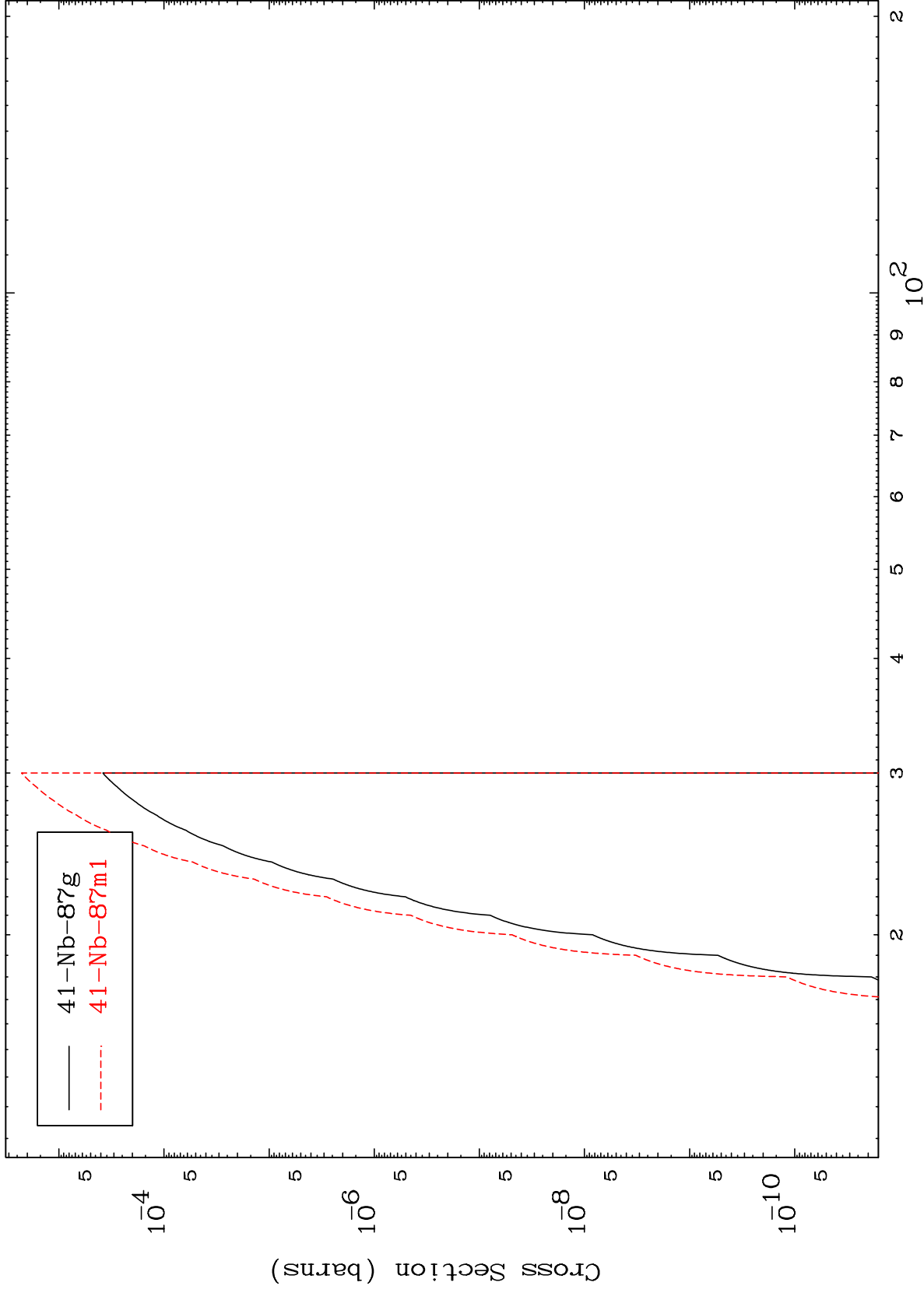


55

Incident Energy (MeV)

43-Tc-90

Radionuclide Production Cross Section

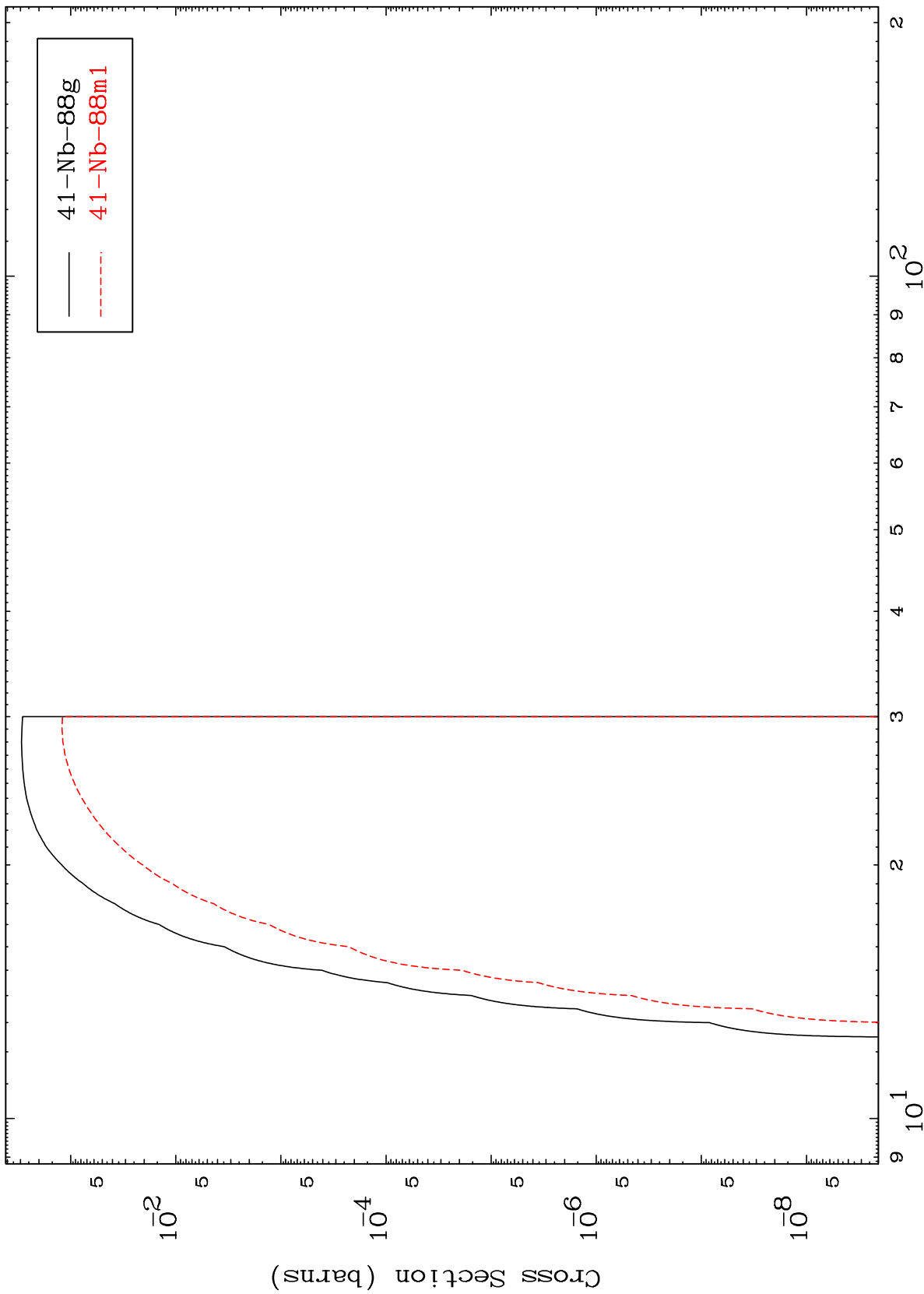


MAT 4298

(n,2n) p

43-Tc-90

Radionuclide Production Cross Section



57

Incident Energy (MeV)

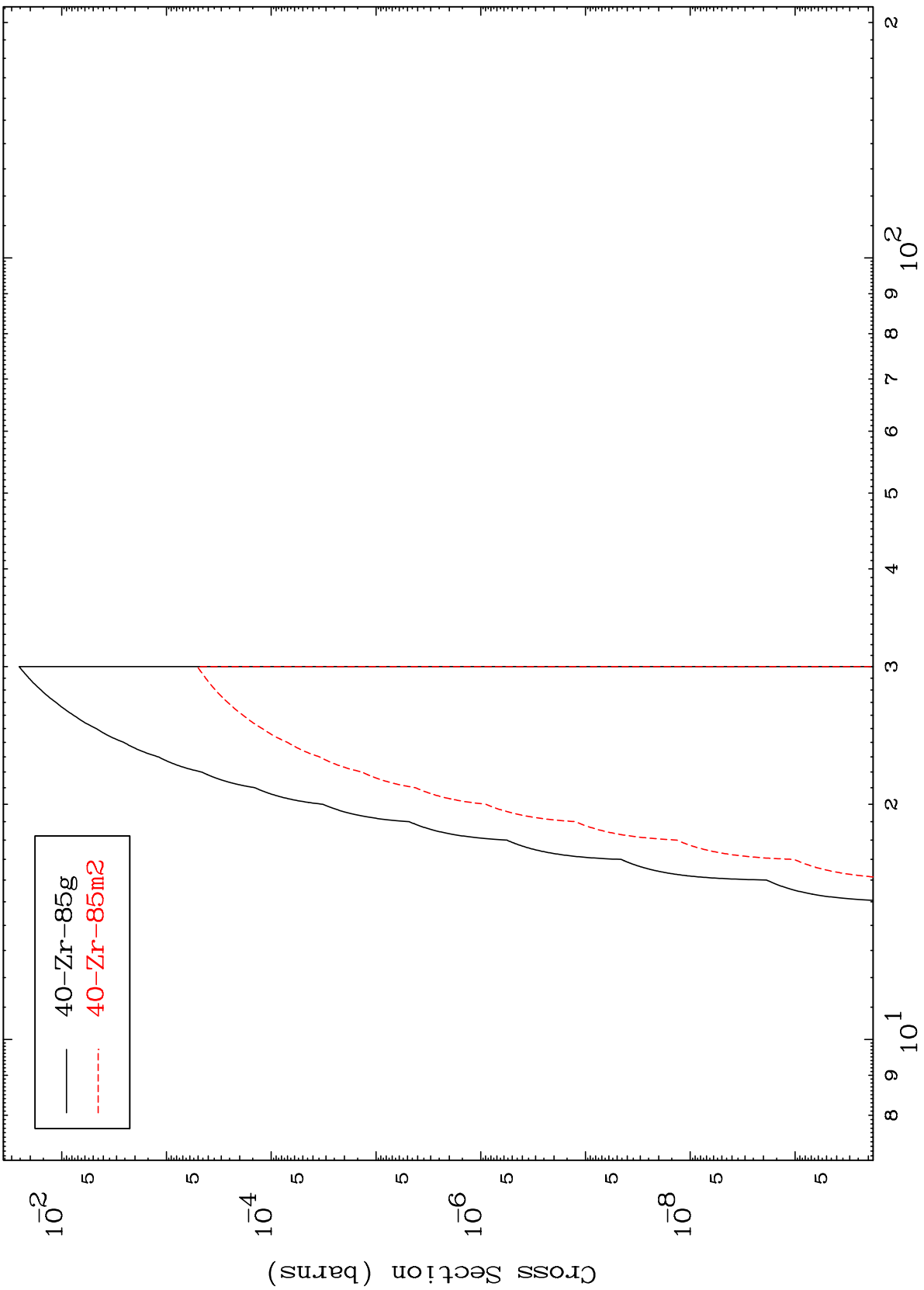
43-Tc-90

MAT 4298

(n,n') p α

43-Tc-90

Radionuclide Production Cross Section



— 40-Zr-85g
- - - 40-Zr-85m2

58

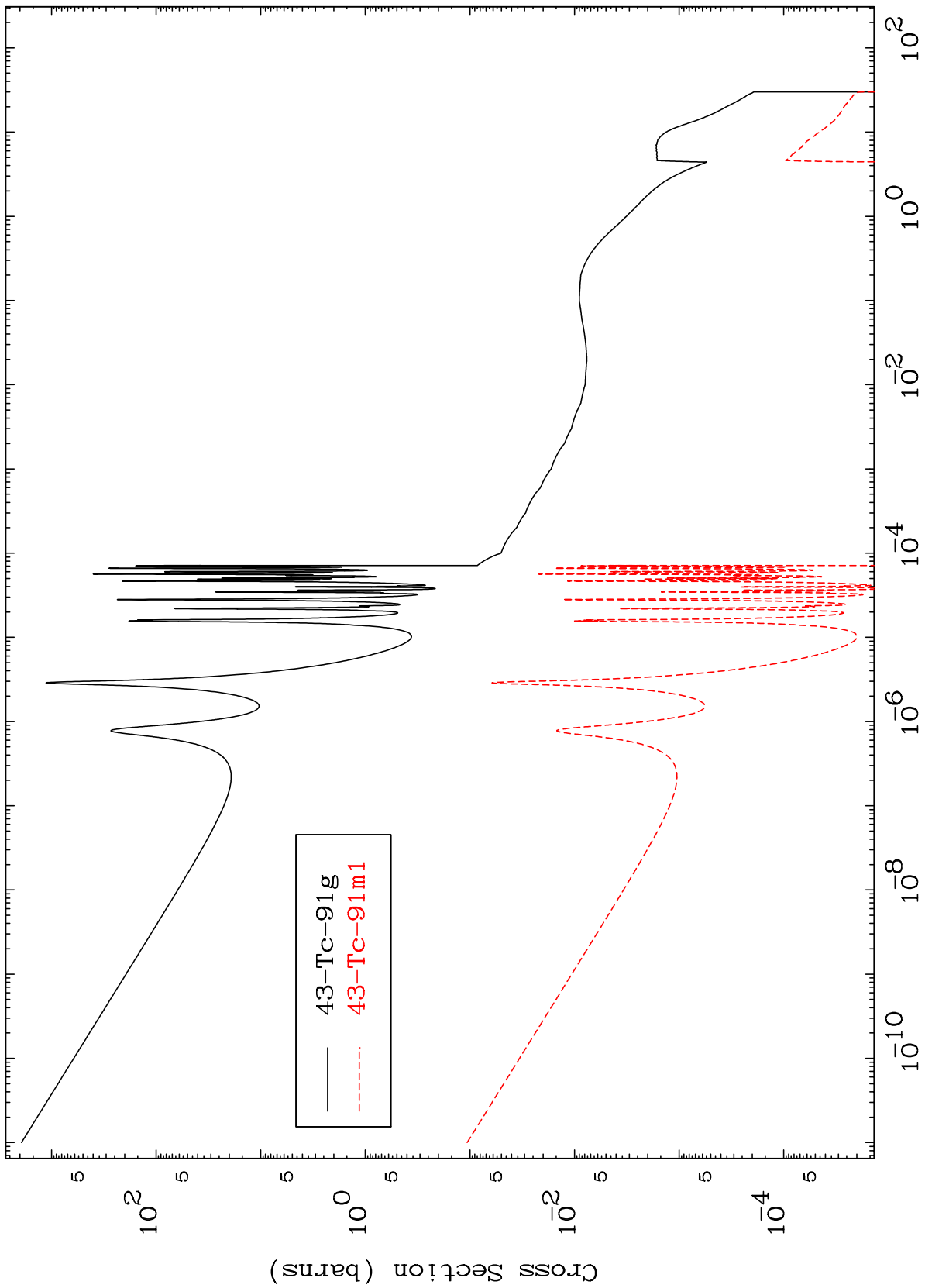
Incident Energy (MeV)

43-Tc-90

MAT 4298

43-Tc-90

(n,γ)
Radionuclide Production Cross Section



59

43-Tc-90

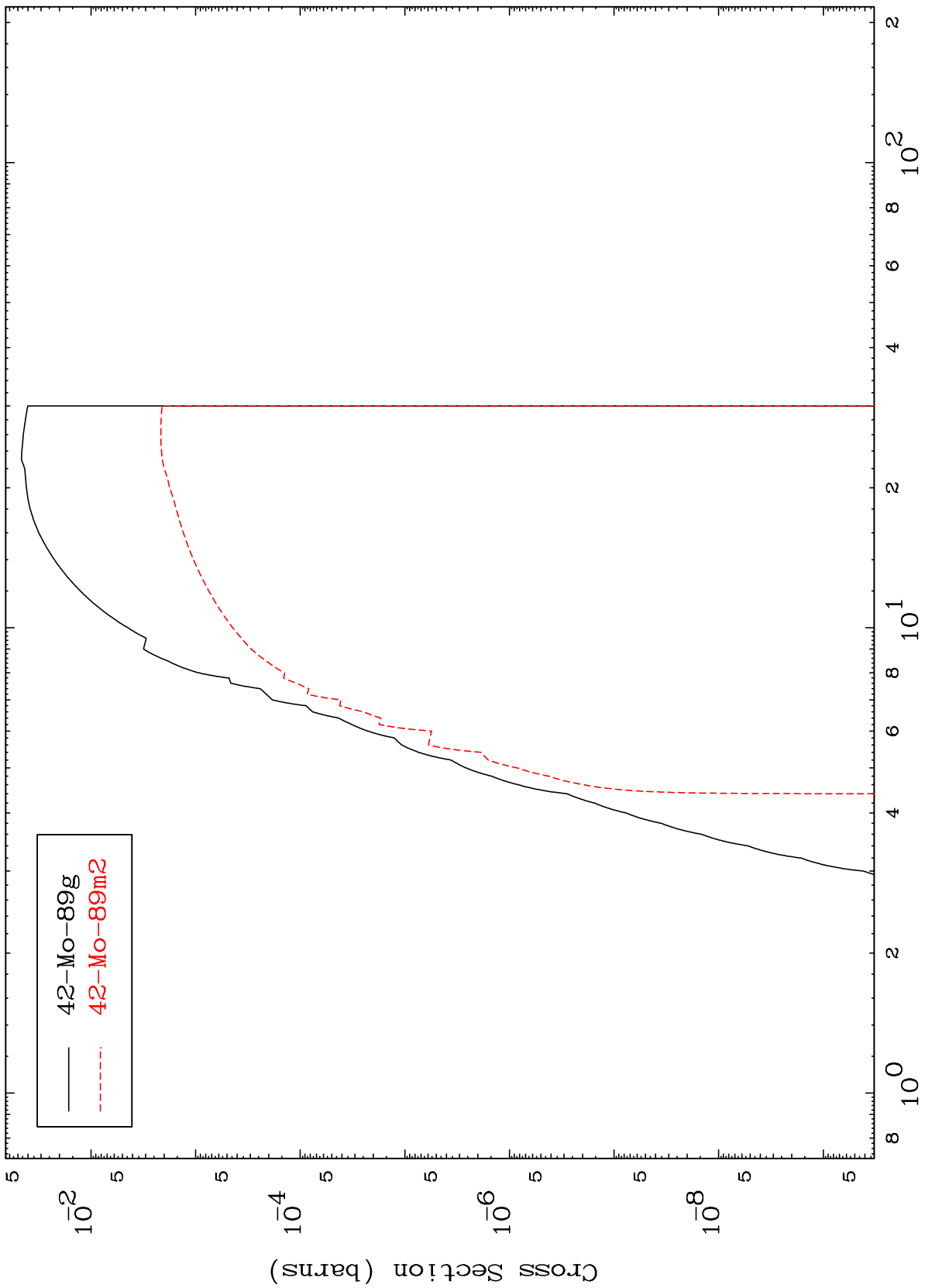
Incident Energy (MeV)

MAT 4298

(n,d)

43-Tc-90

Radionuclide Production Cross Section



60

Incident Energy (MeV)

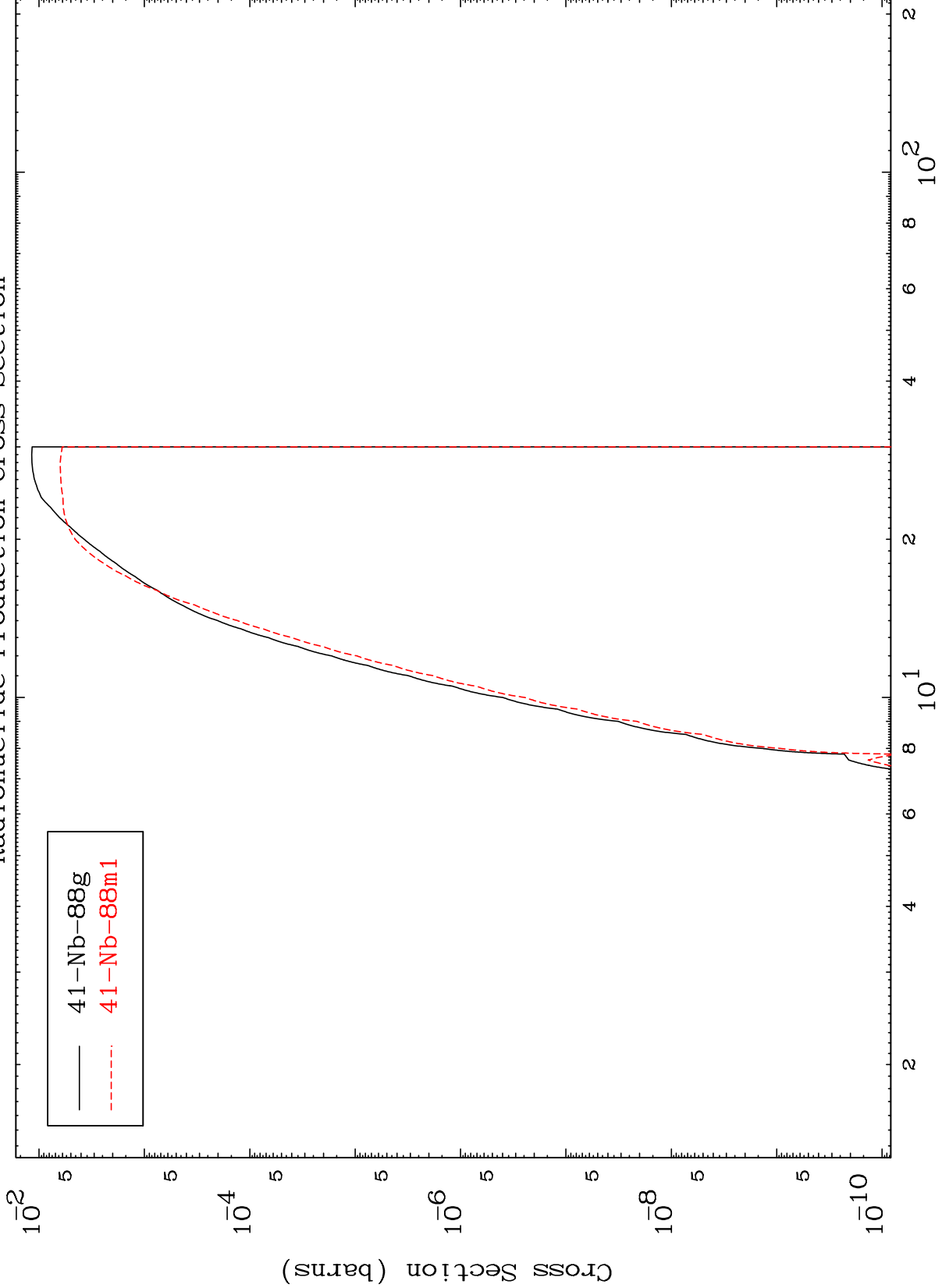
43-Tc-90

MAT 4298

(n,He-3)

43-Tc-90

Radionuclide Production Cross Section



— 41-Nb-88g
- - - 41-Nb-88m1

61

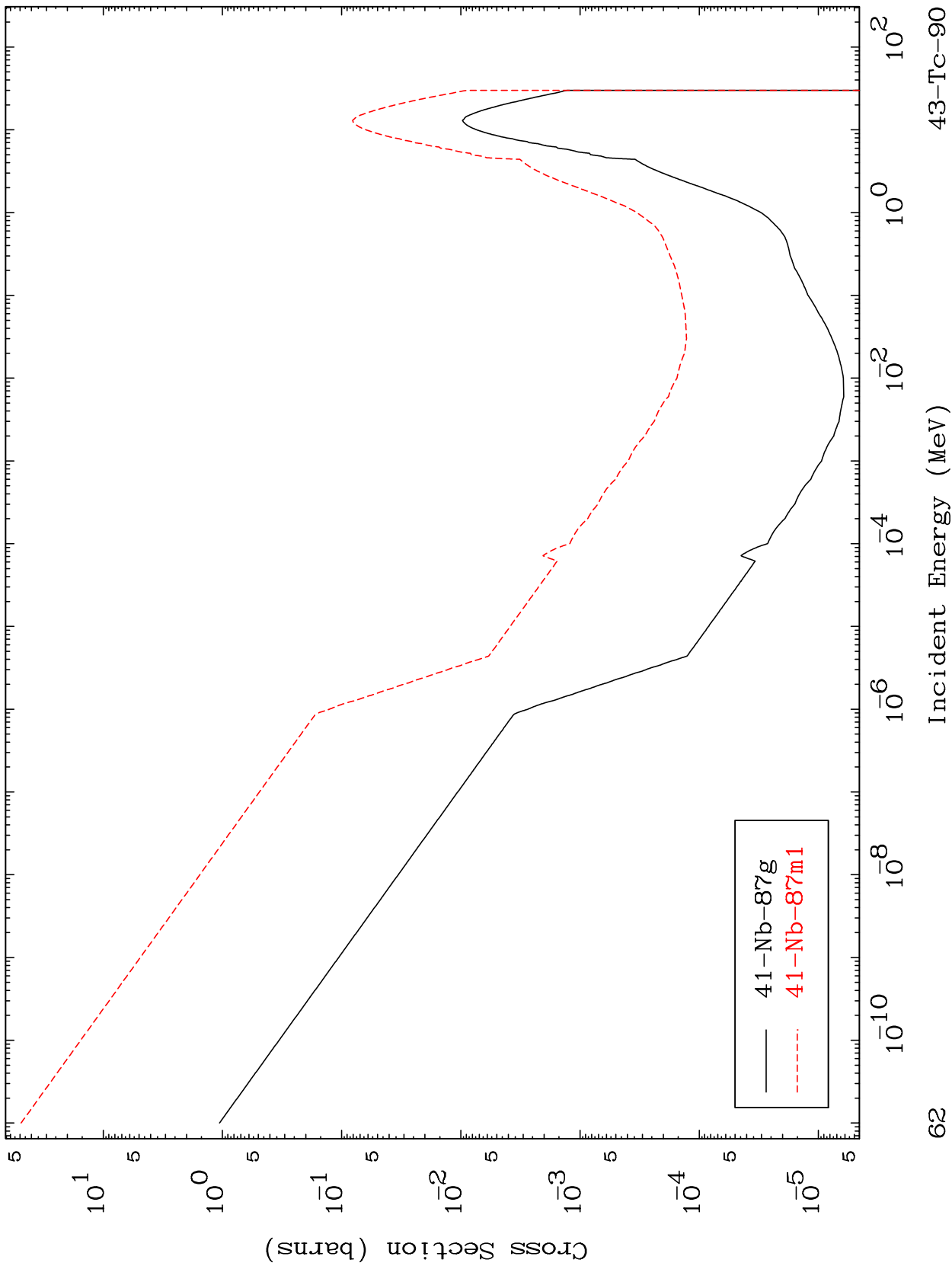
Incident Energy (MeV)

43-Tc-90

MAT 4298

43-Tc-90

(n, α)
Radionuclide Production Cross Section

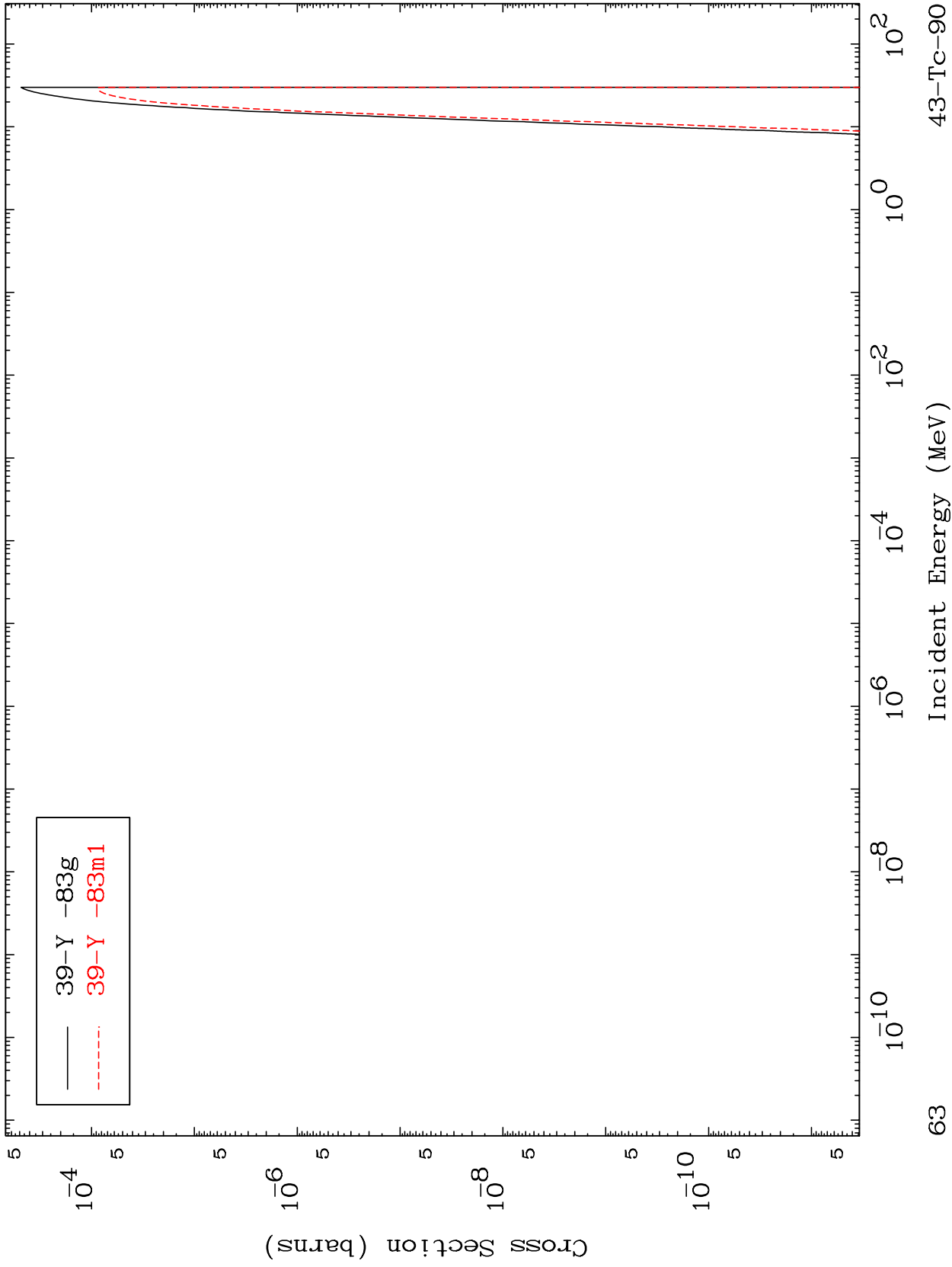


MAT 4298

(n,2α)

43-Tc-90

Radionuclide Production Cross Section

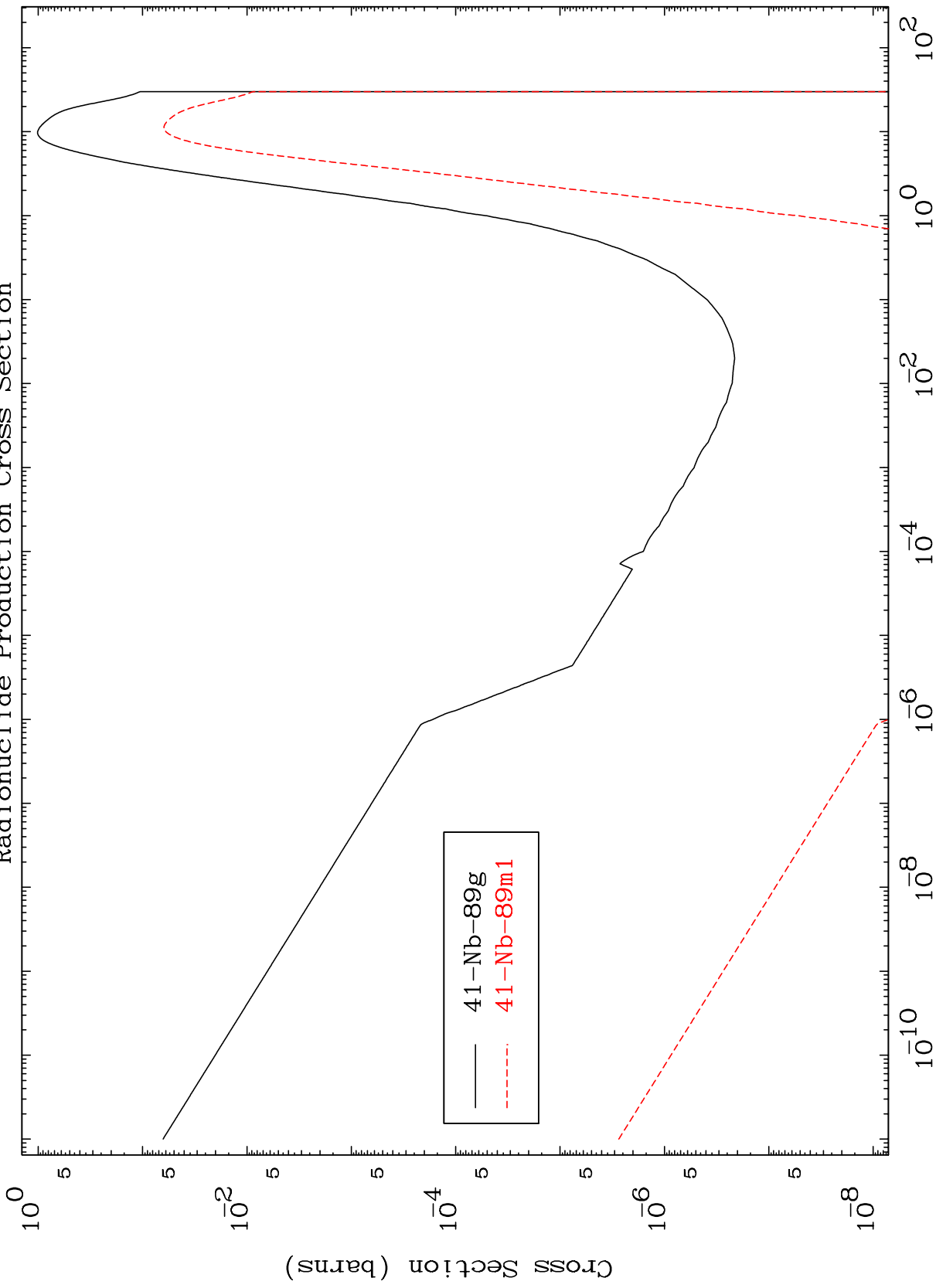


39-Y -83g
39-Y -83m1

MAT 4298

43-Tc-90

(n,2p)
Radionuclide Production Cross Section



43-Tc-90

Incident Energy (MeV)

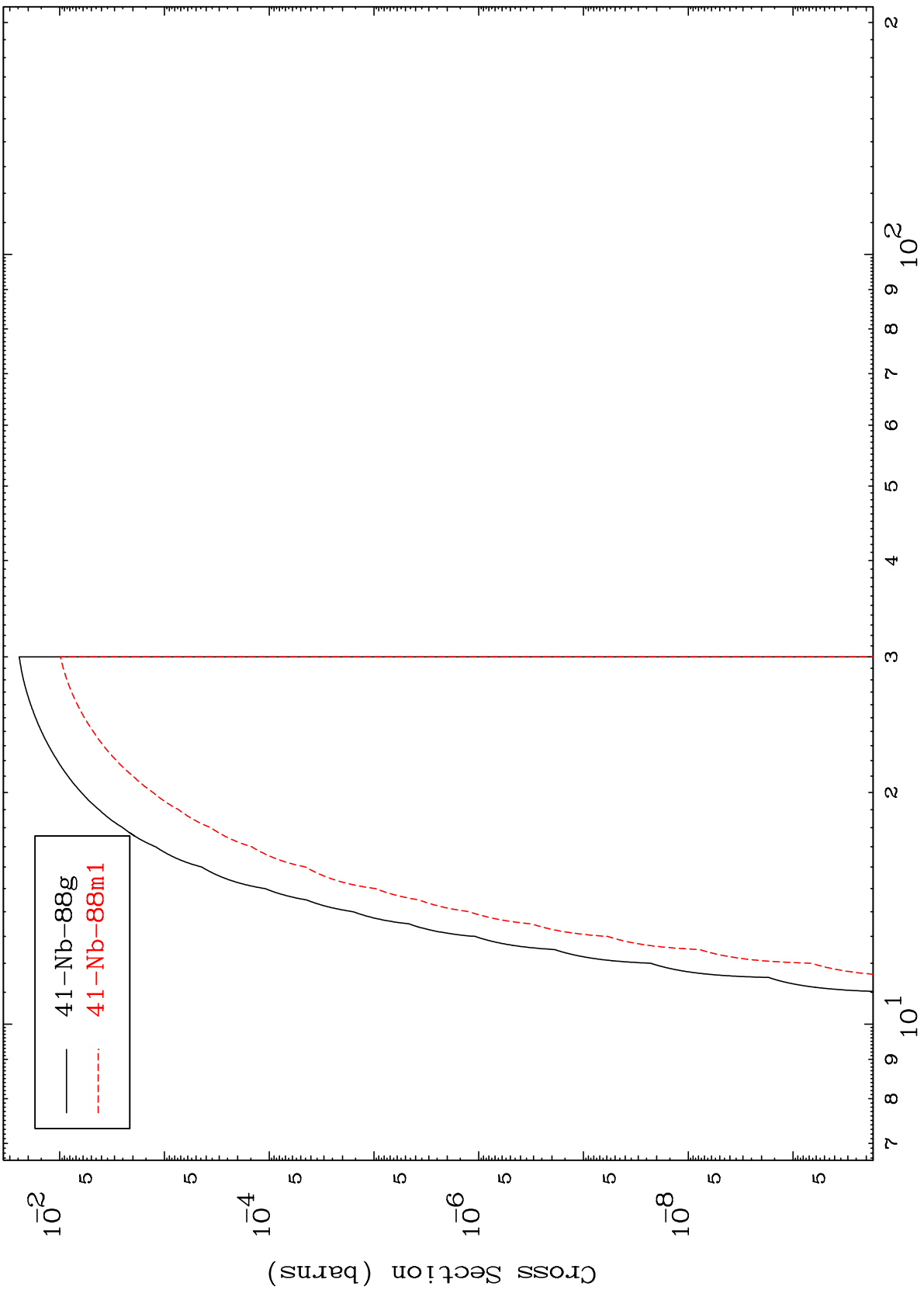
64

MAT 4298

(n,p) d

43-Tc-90

Radionuclide Production Cross Section



— 41-Nb-88g
- - - 41-Nb-88m1

65

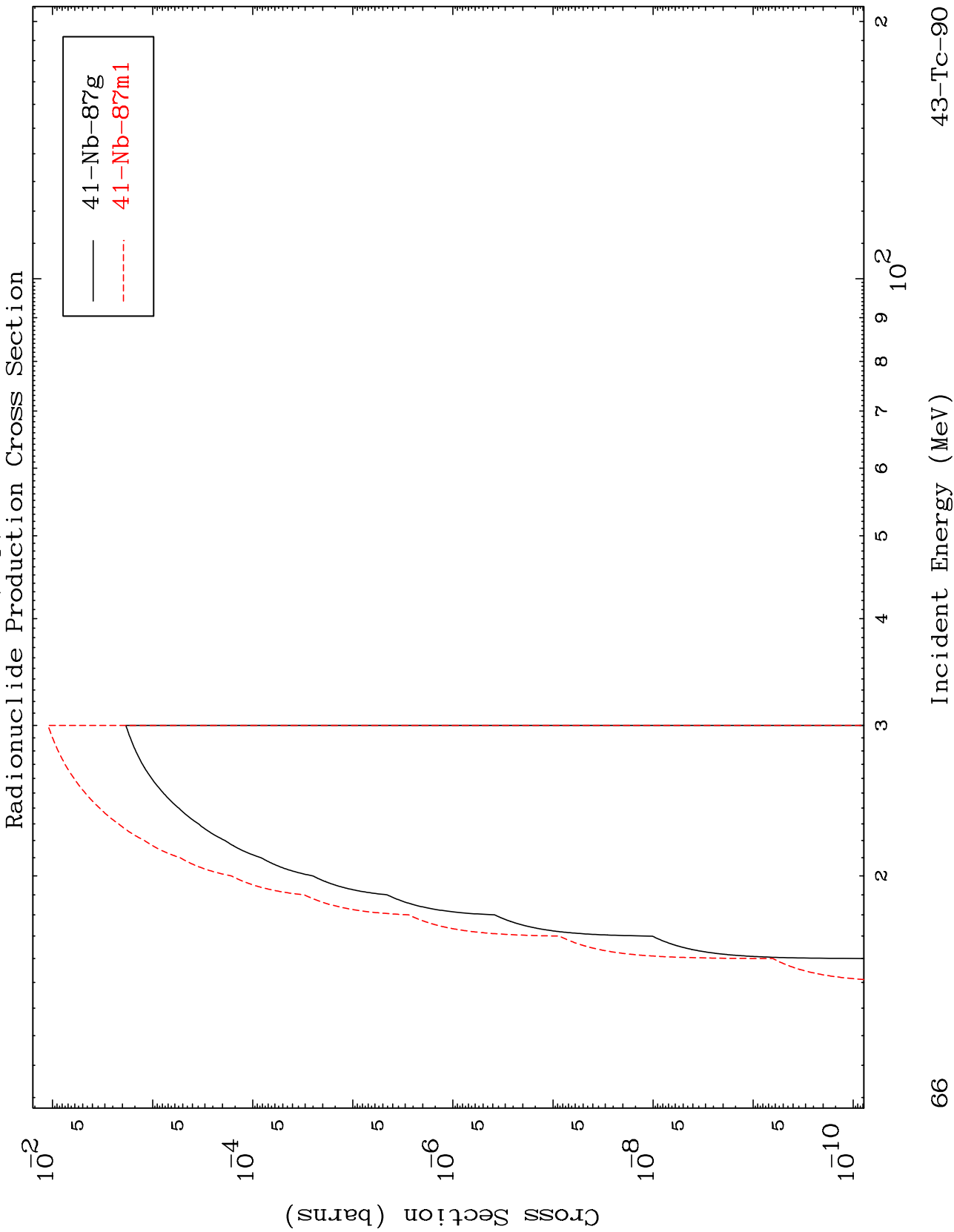
Incident Energy (MeV)

43-Tc-90

MAT 4298

(n,p) t

43-Tc-90



66

Incident Energy (MeV)

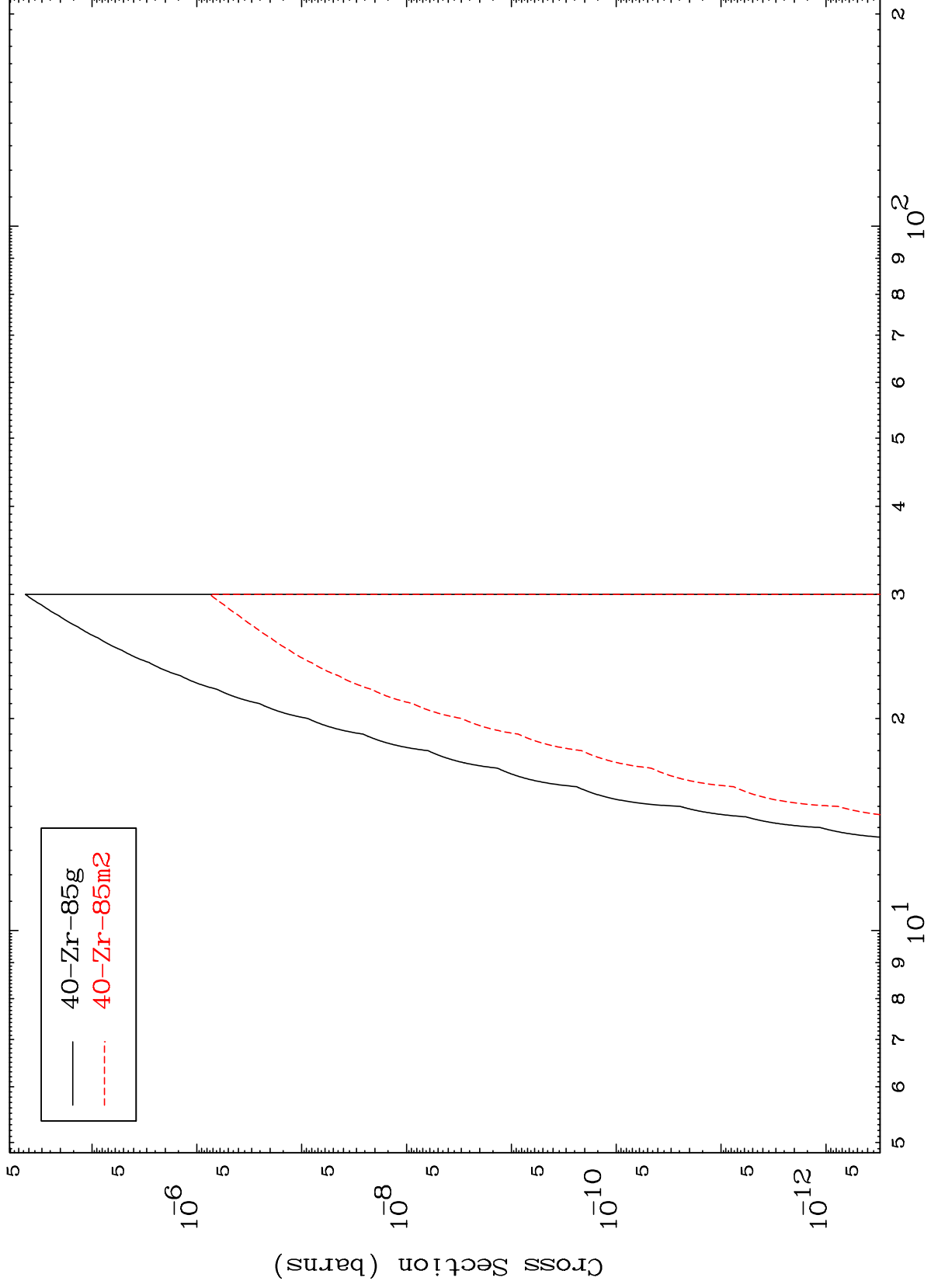
43-Tc-90

MAT 4298

(n,d) α

43-Tc-90

Radionuclide Production Cross Section



— 40-Zr-85g
- - - 40-Zr-85m2

67

Incident Energy (MeV)

43-Tc-90