

Program EVALPLOT
(Version 2021-1)

by

Dermott E. Cullen
(Present Contact Information)

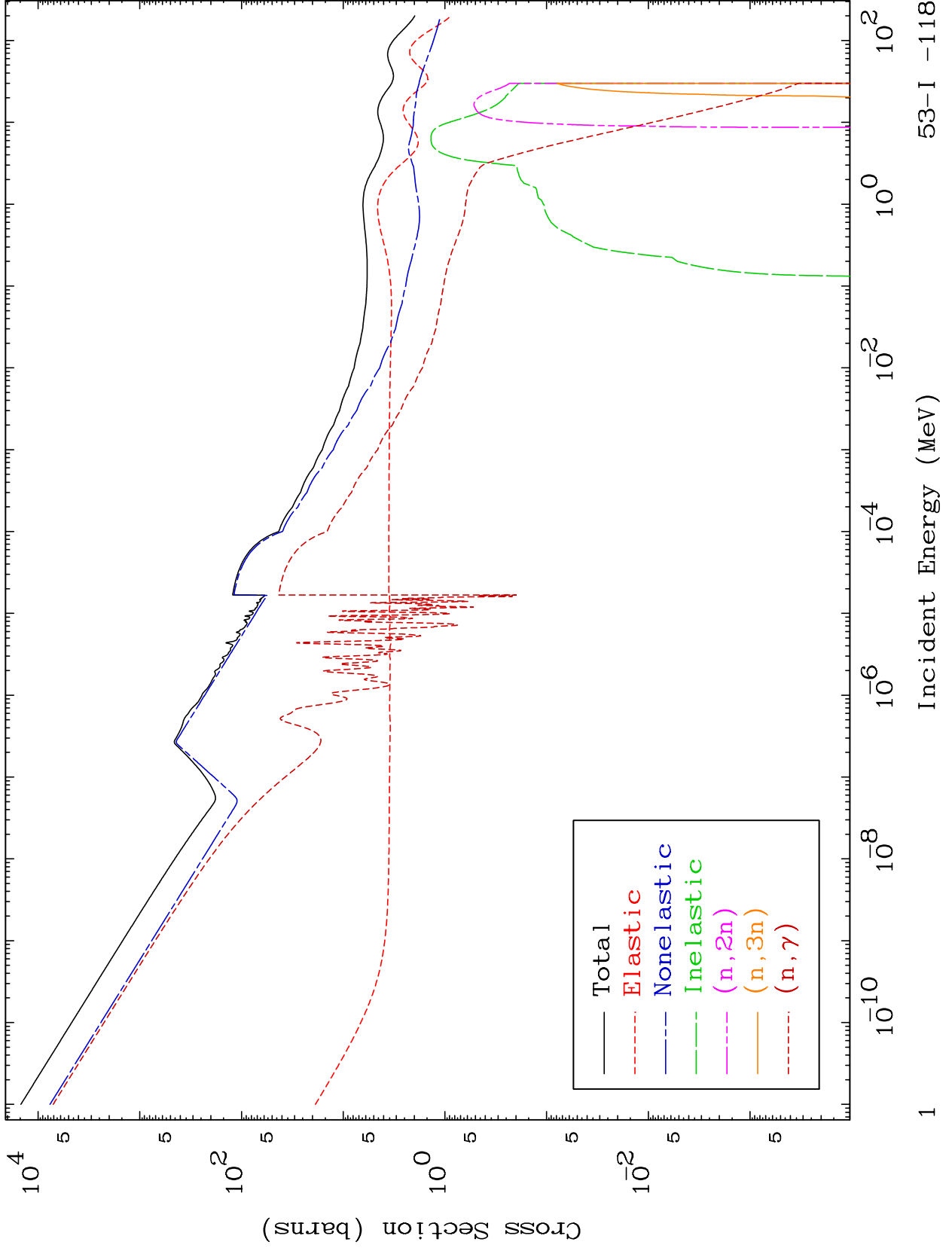
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E.Mail:redcullen1@comcast.net

Web:redcullen1.net/HOMEPAGE.NEW

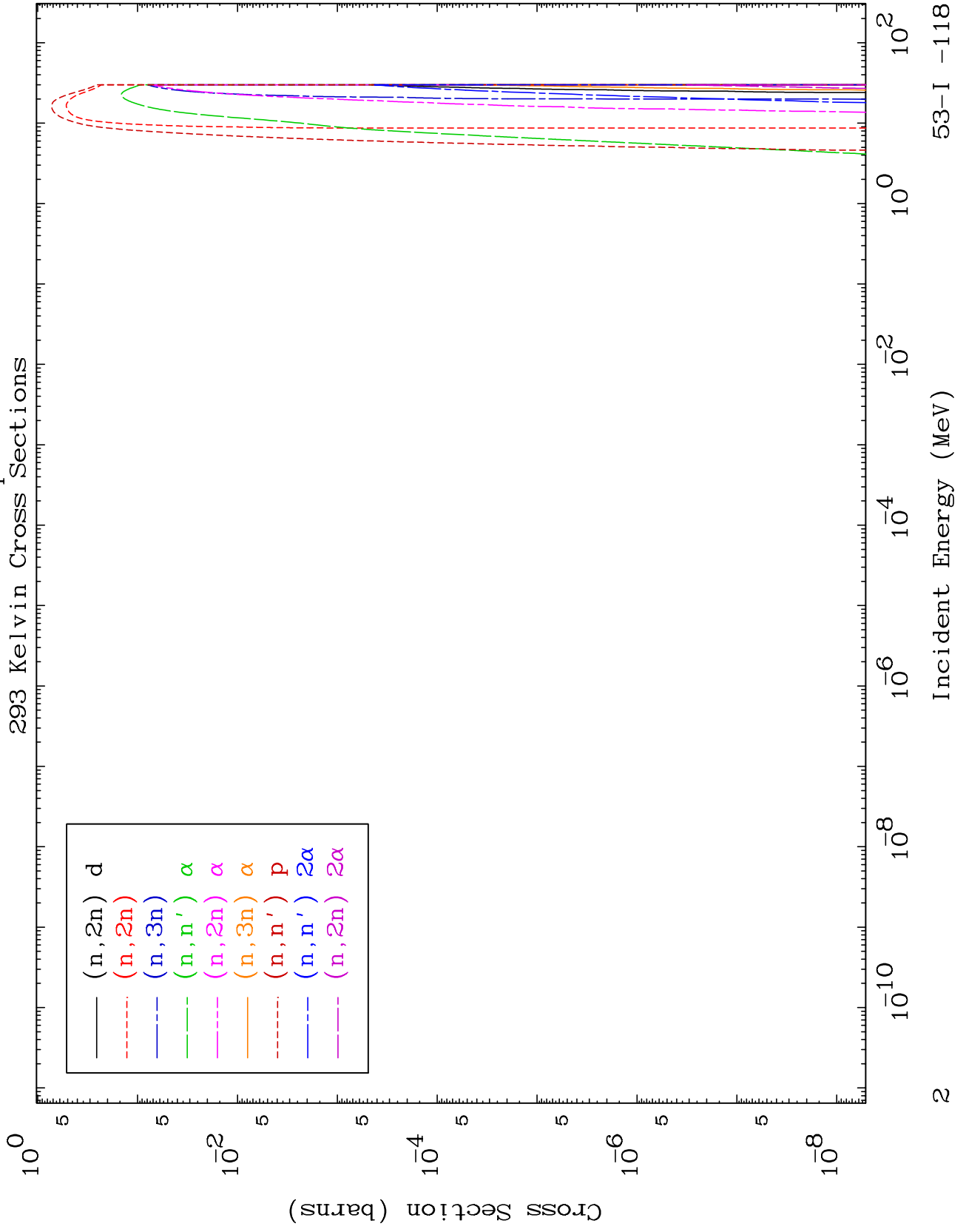
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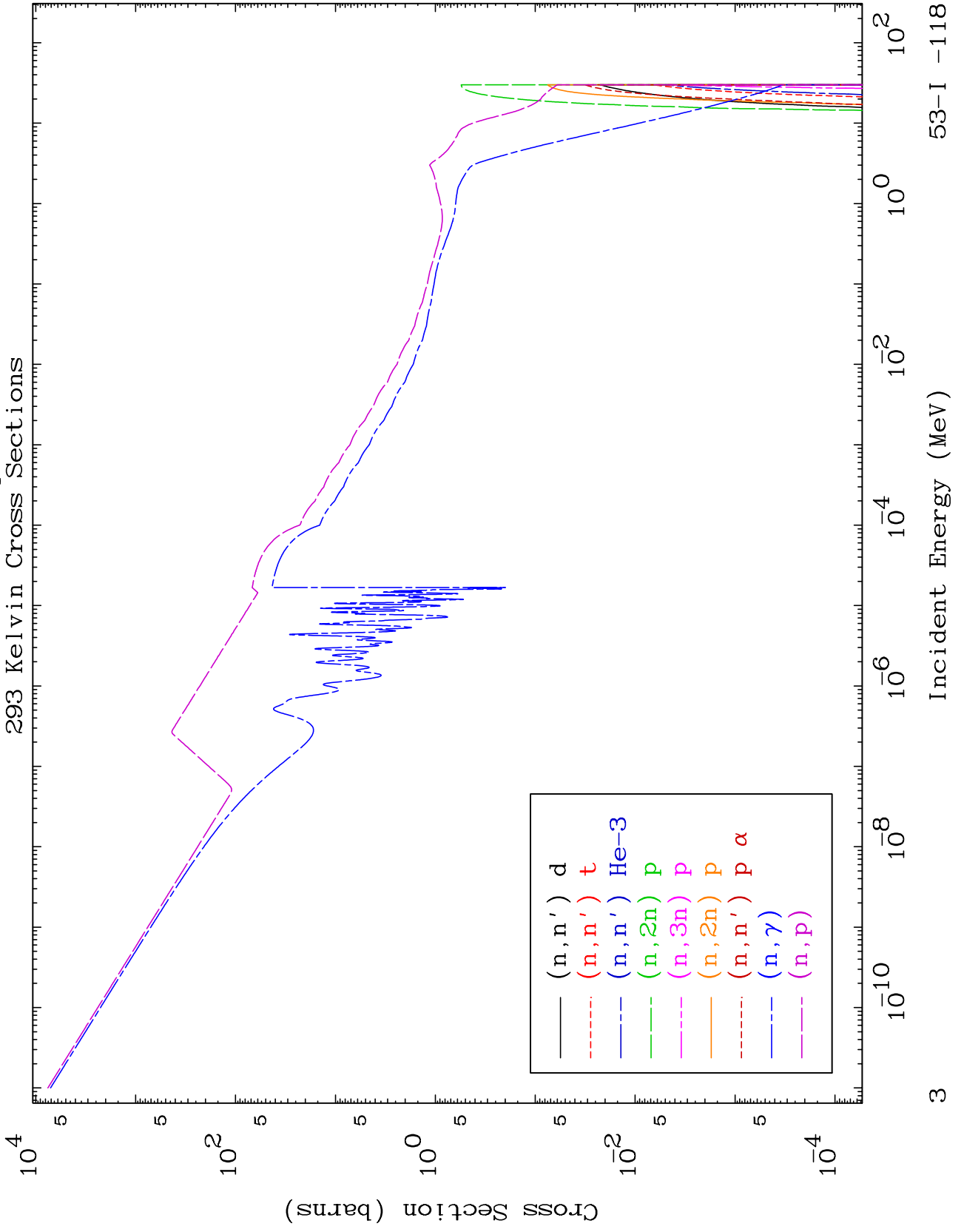


MAT 5298

Neutron Absorption
293 Kelvin Cross Sections

53-I -118

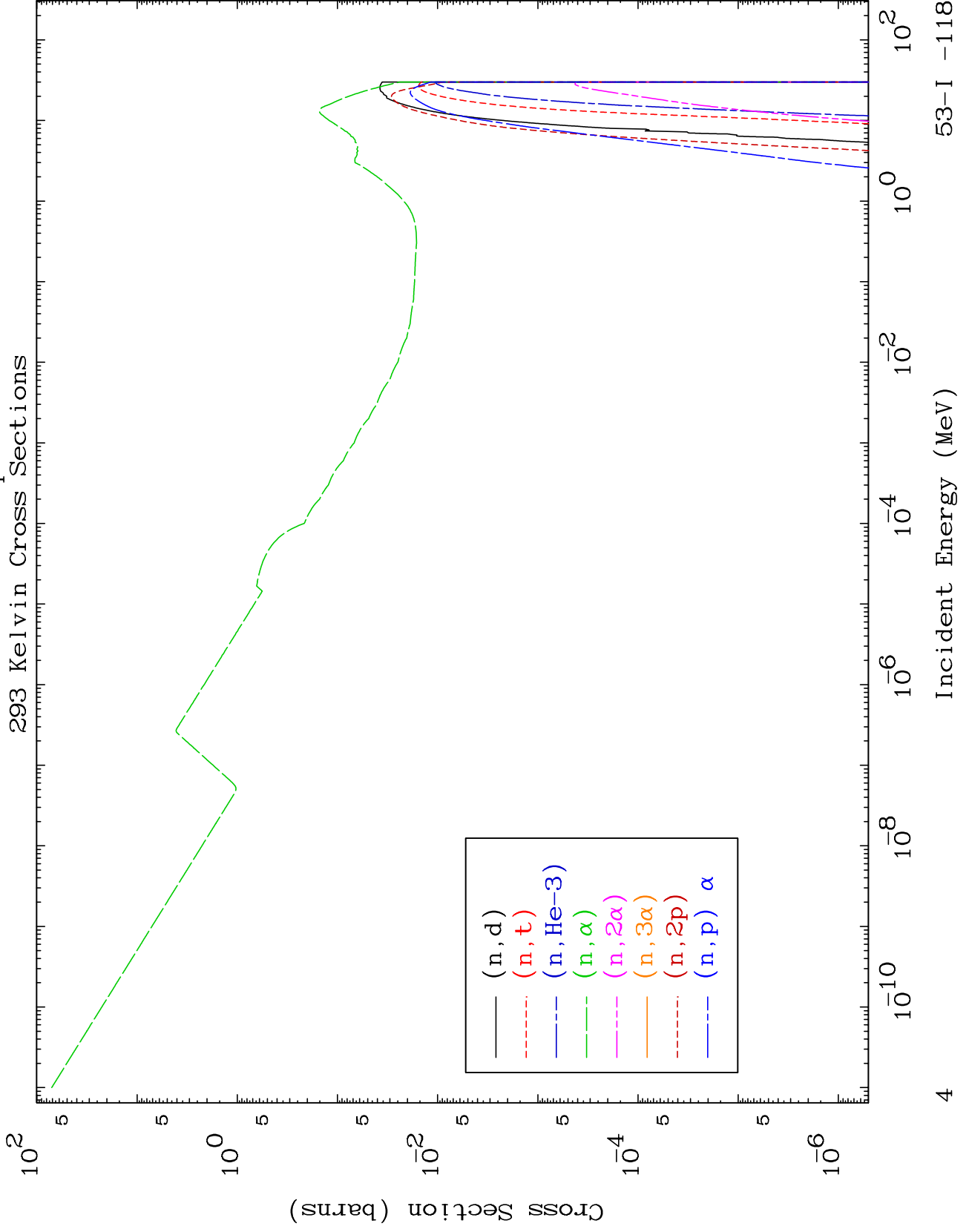


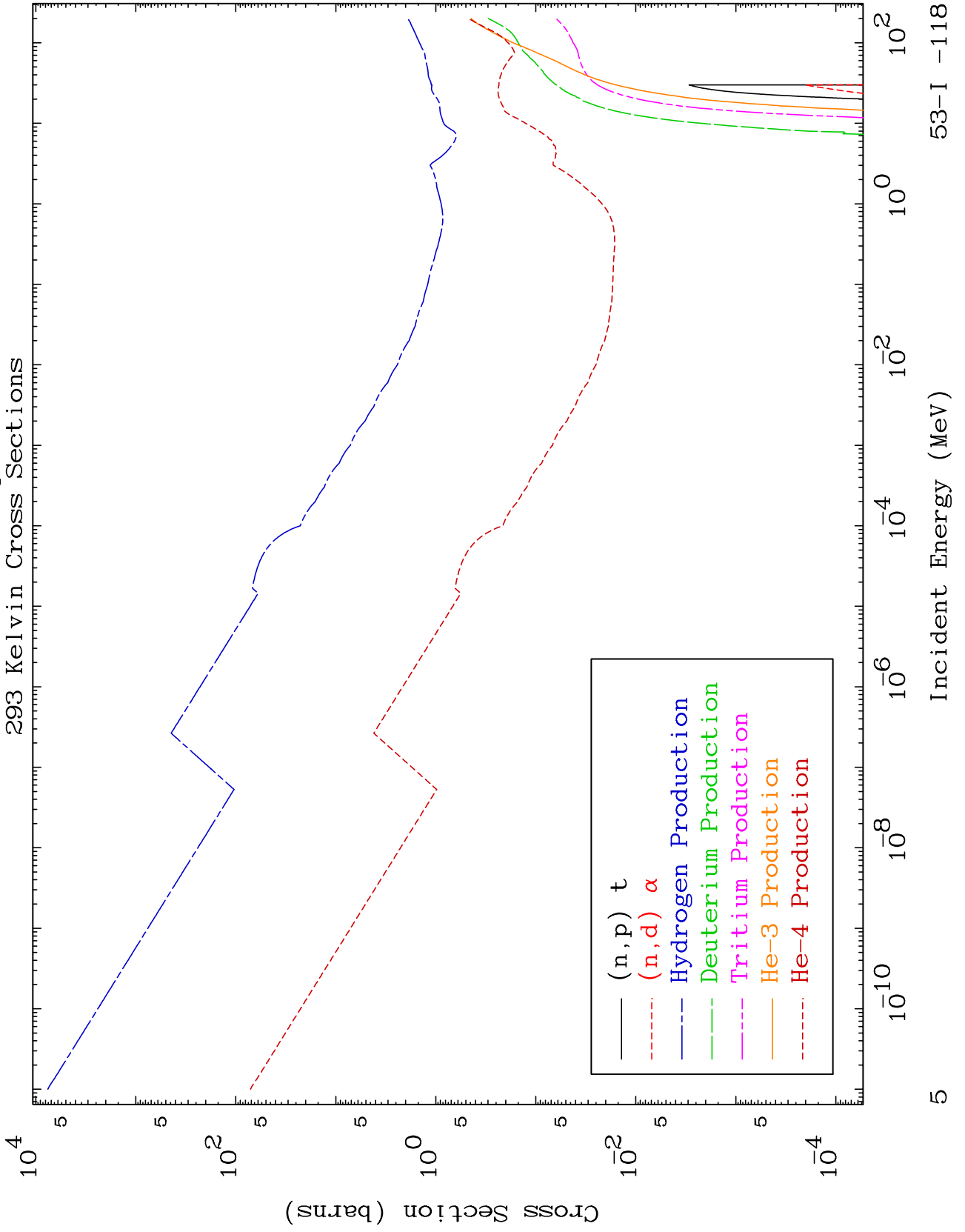


MAT 5298

Neutron Absorption
293 Kelvin Cross Sections

53-I -118

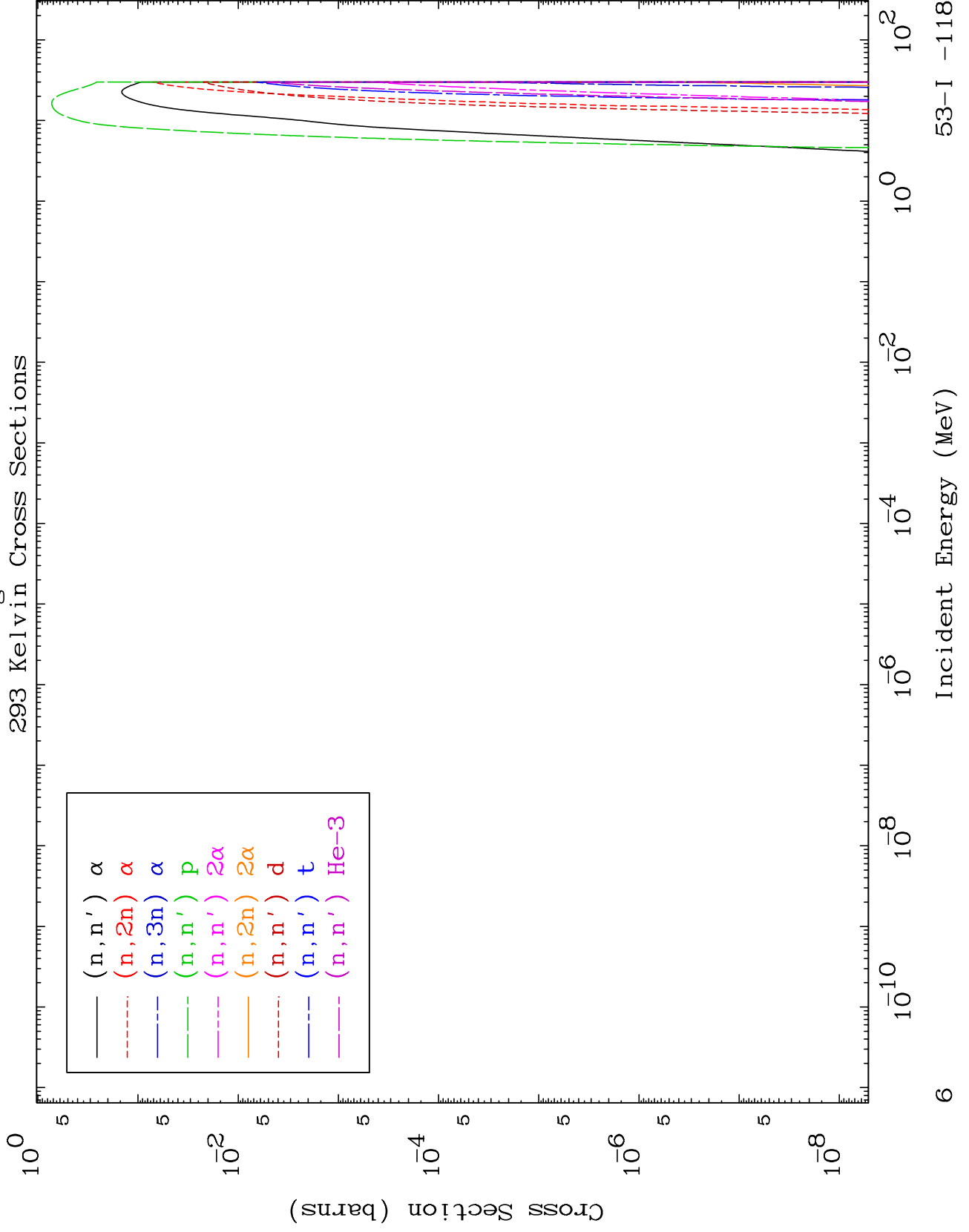


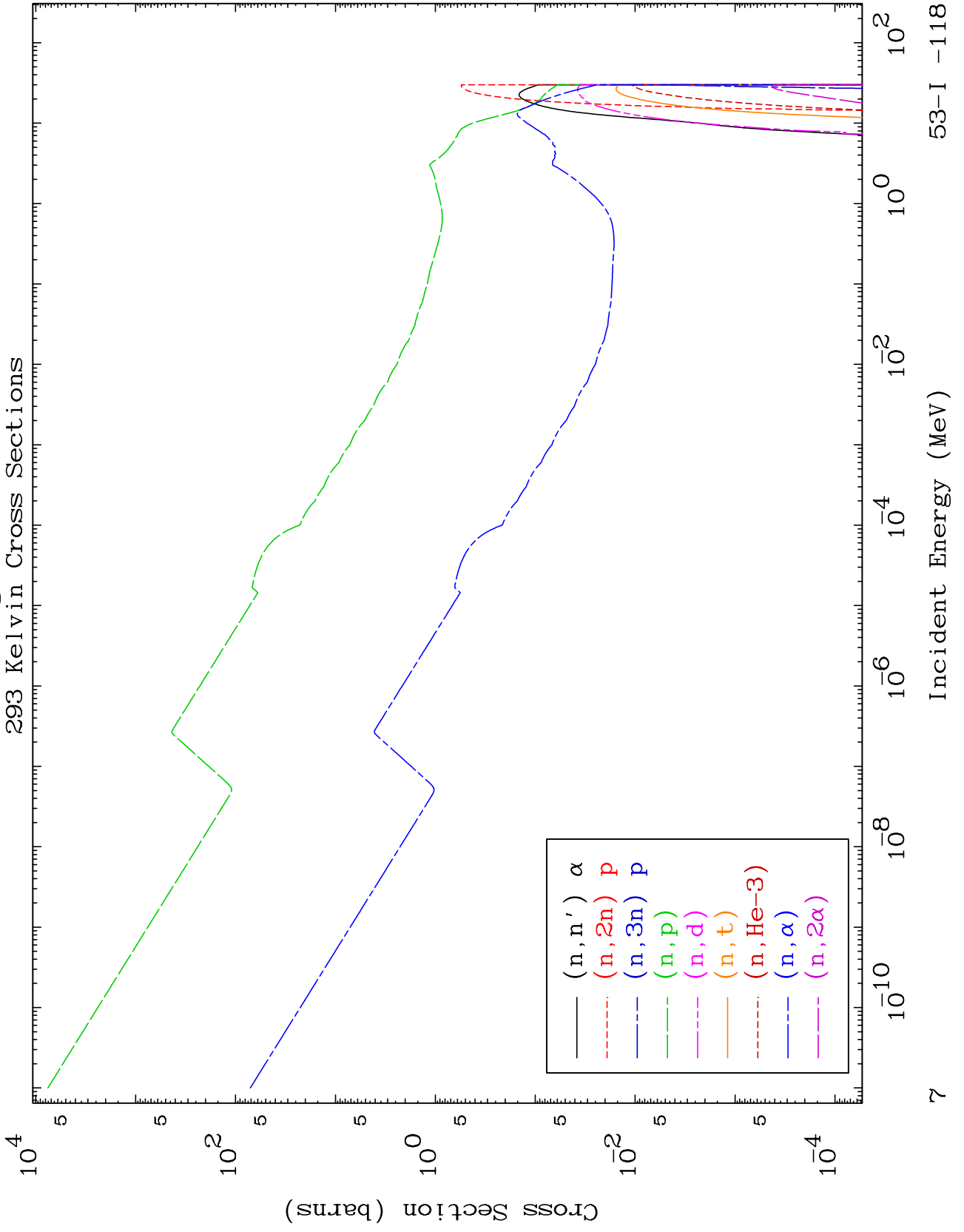


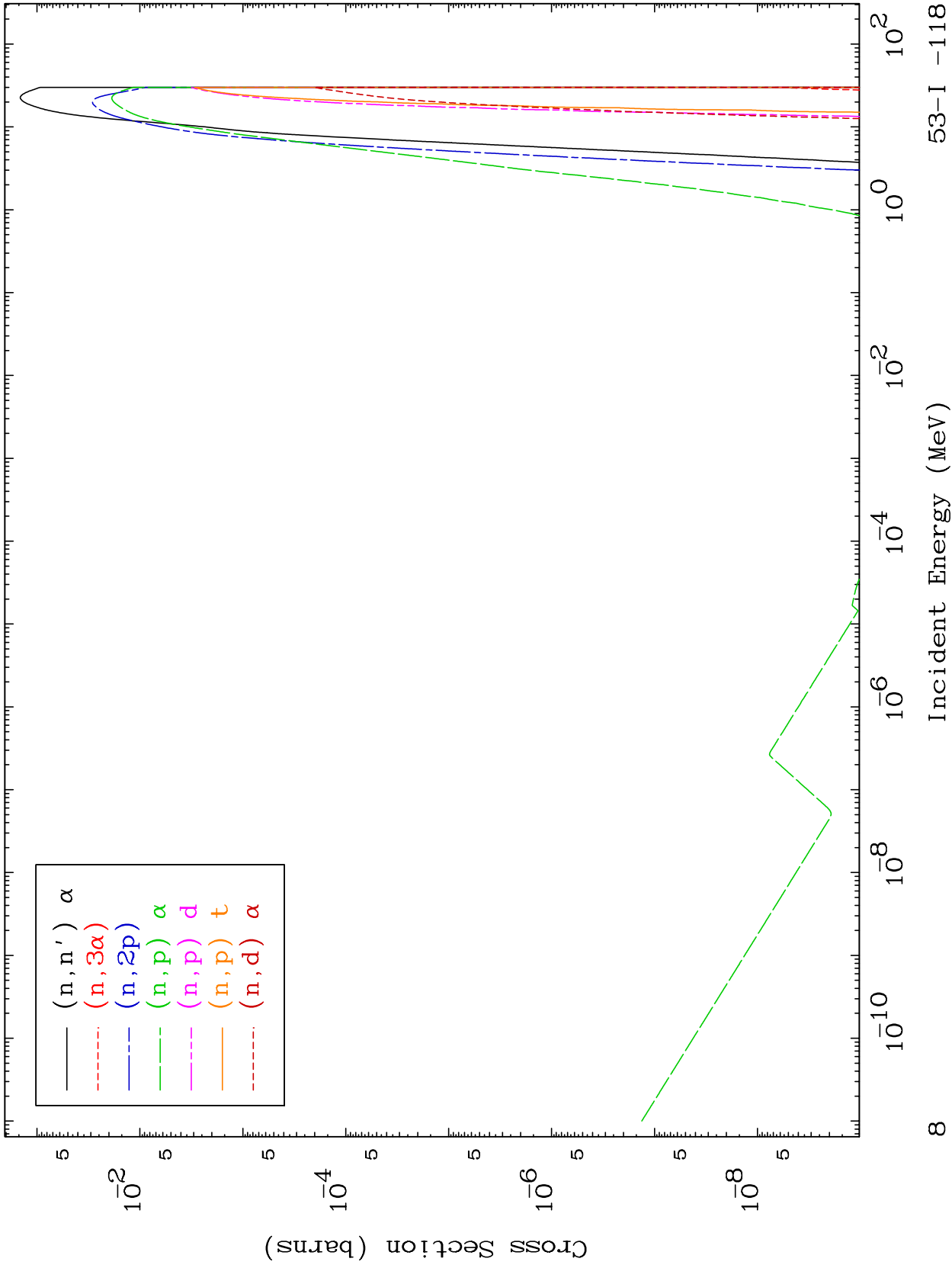
MAT 5298

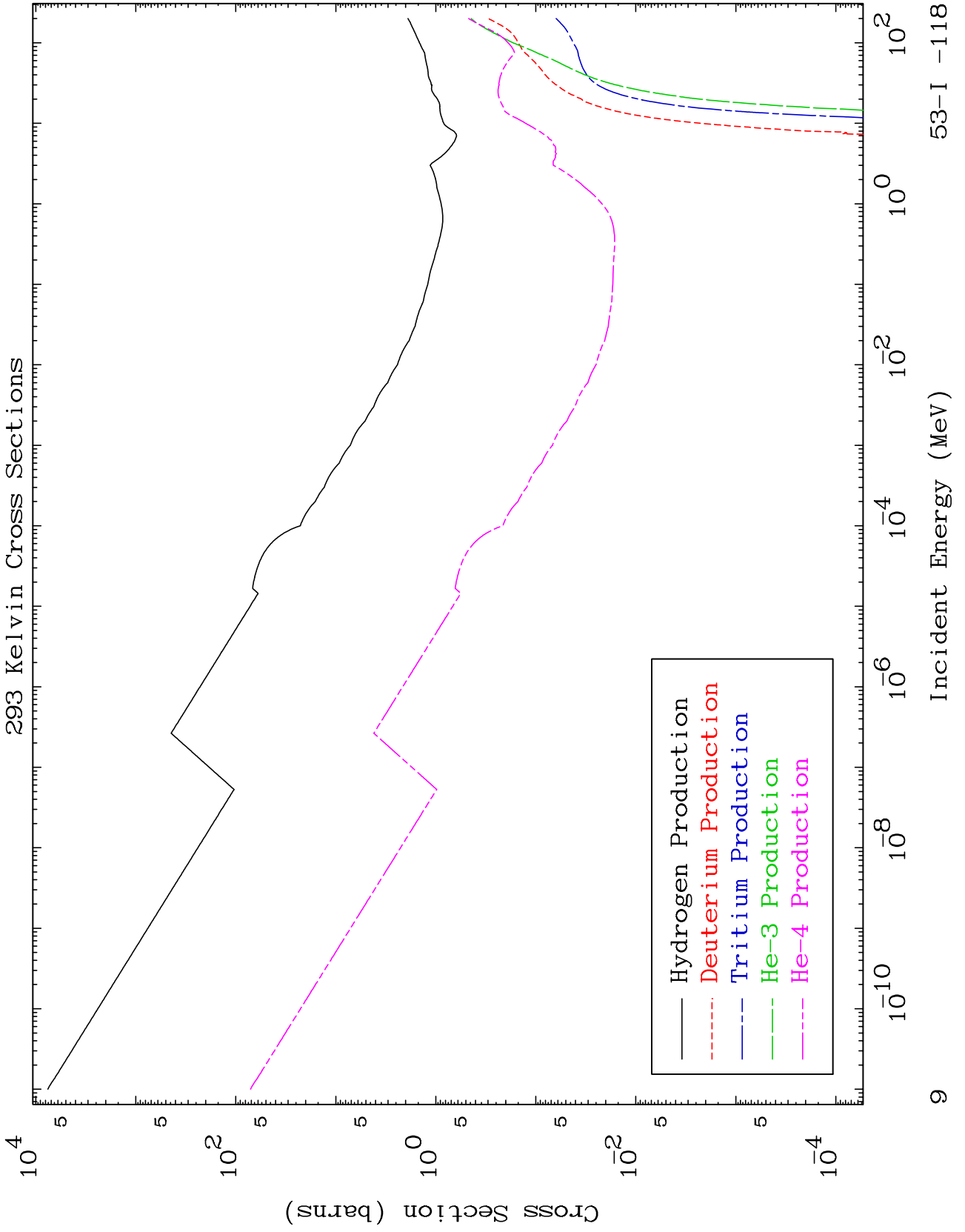
Charged Particle
293 Kelvin Cross Sections

53-I -118





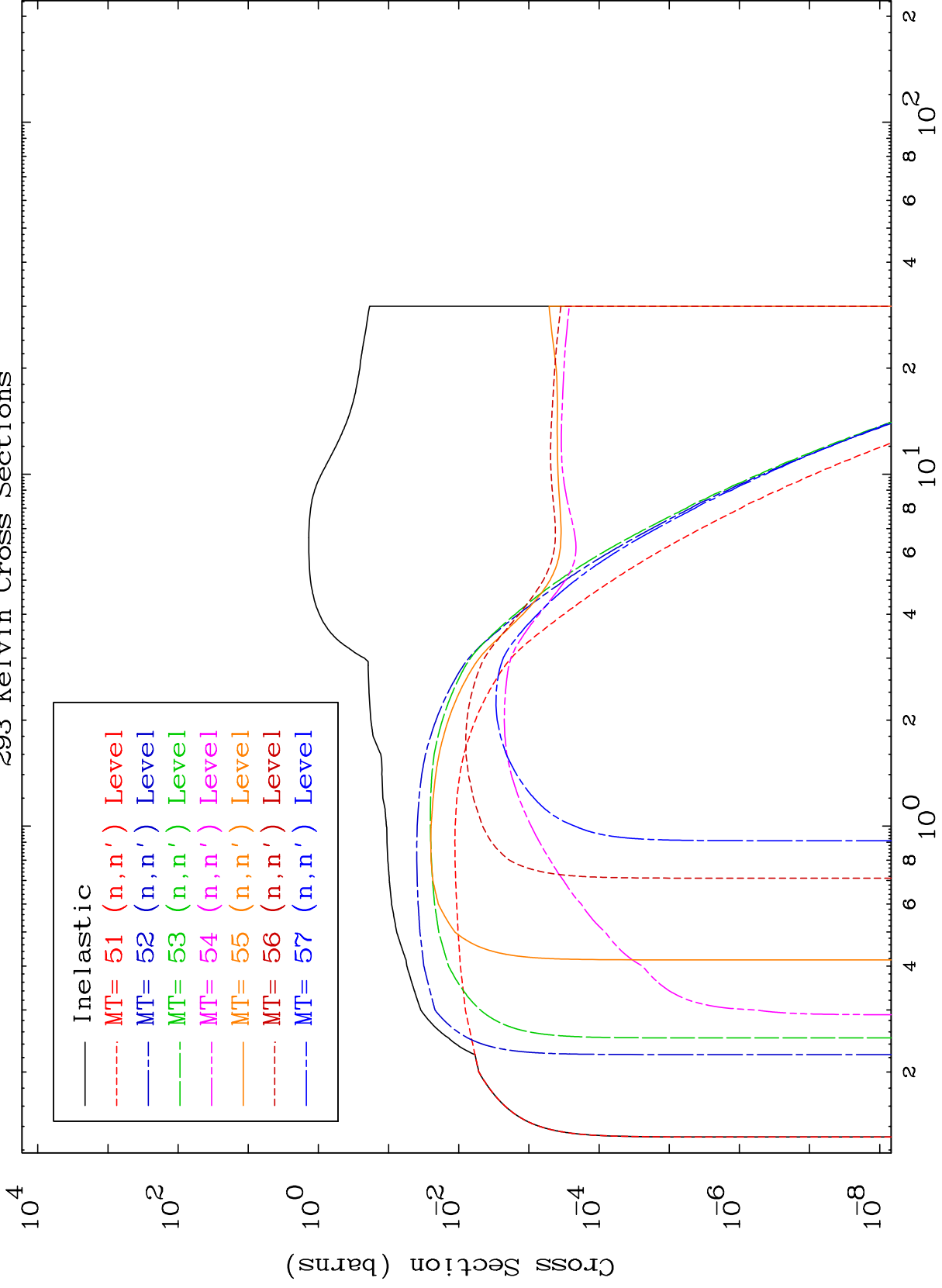




MAT 5298

(n,n') Levels
293 Kelvin Cross Sections

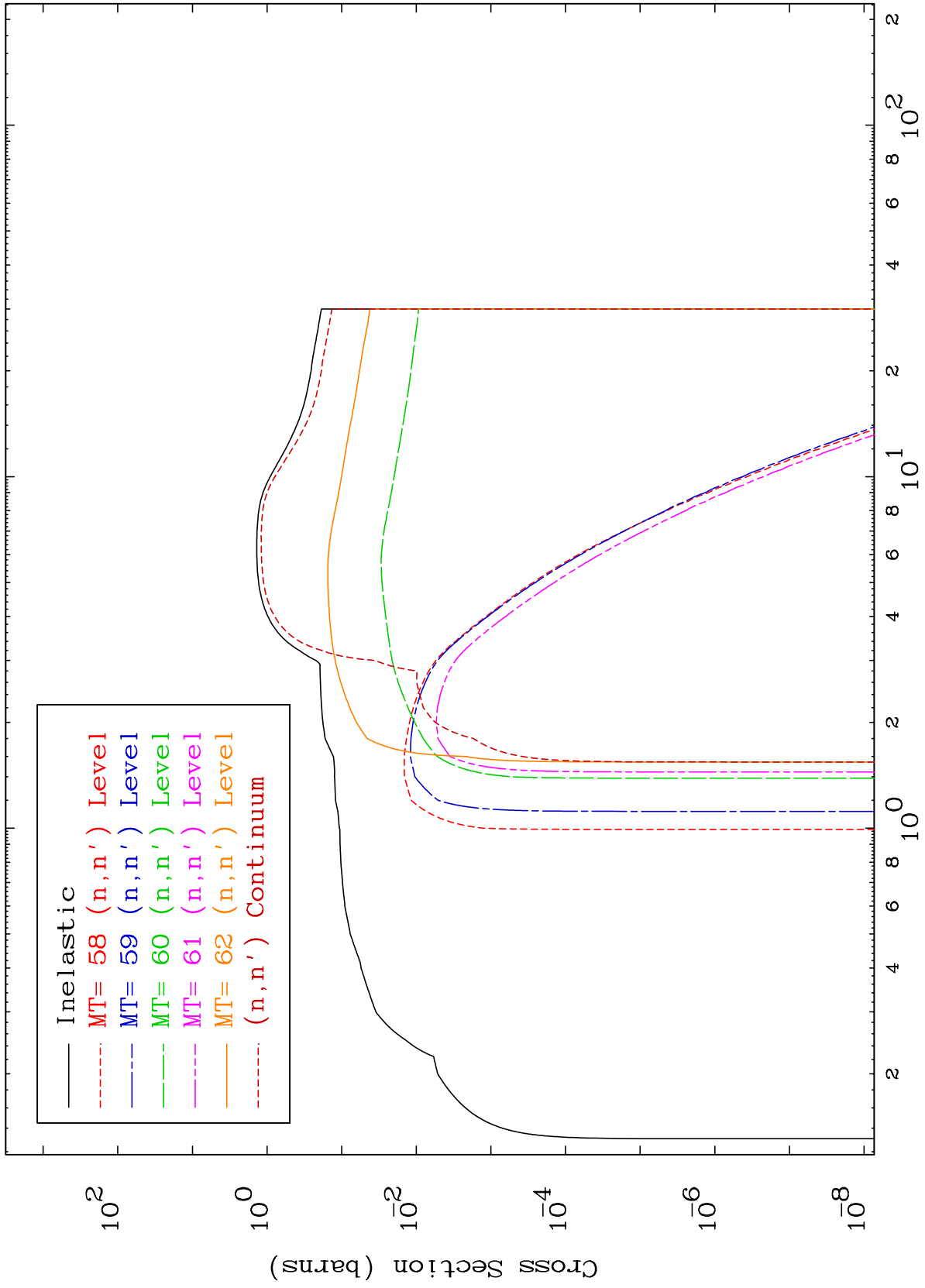
53-I -118



10

Incident Energy (MeV)

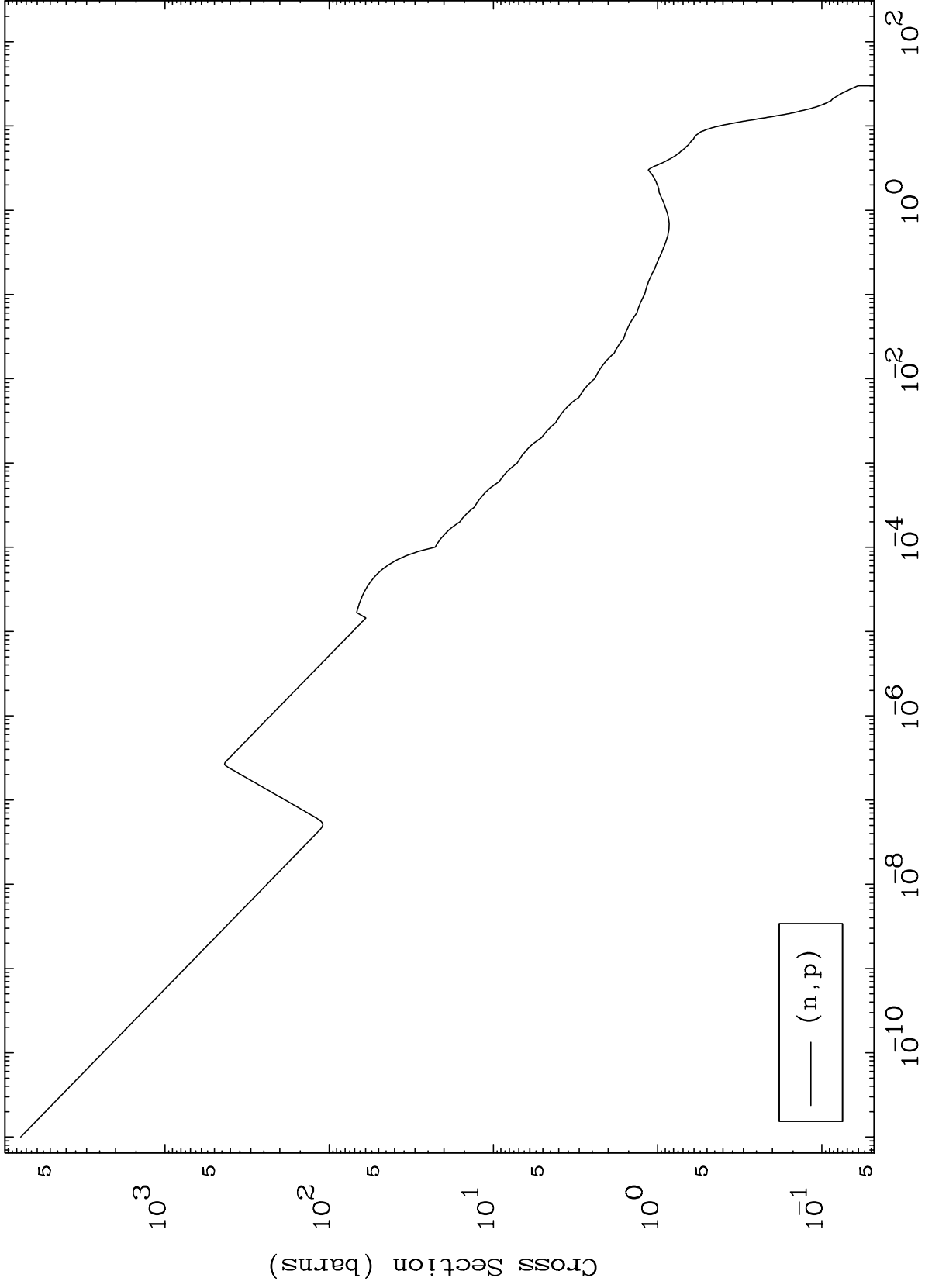
53-I -118



MAT 5298

(n,p) Levels
293 Kelvin Cross Sections

53-I -118

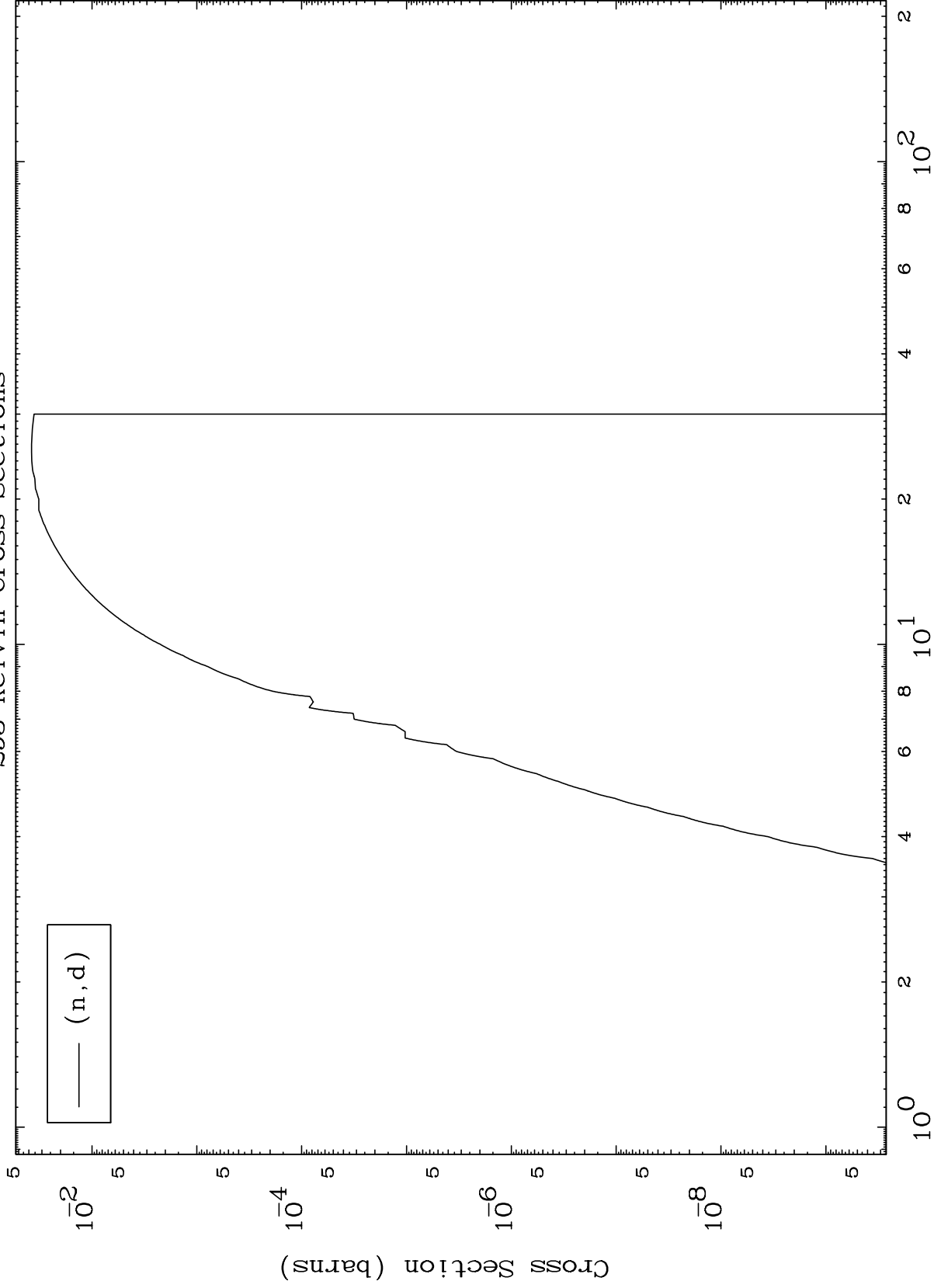


— (n,p)

MAT 5298

(n,d) Levels
293 Kelvin Cross Sections

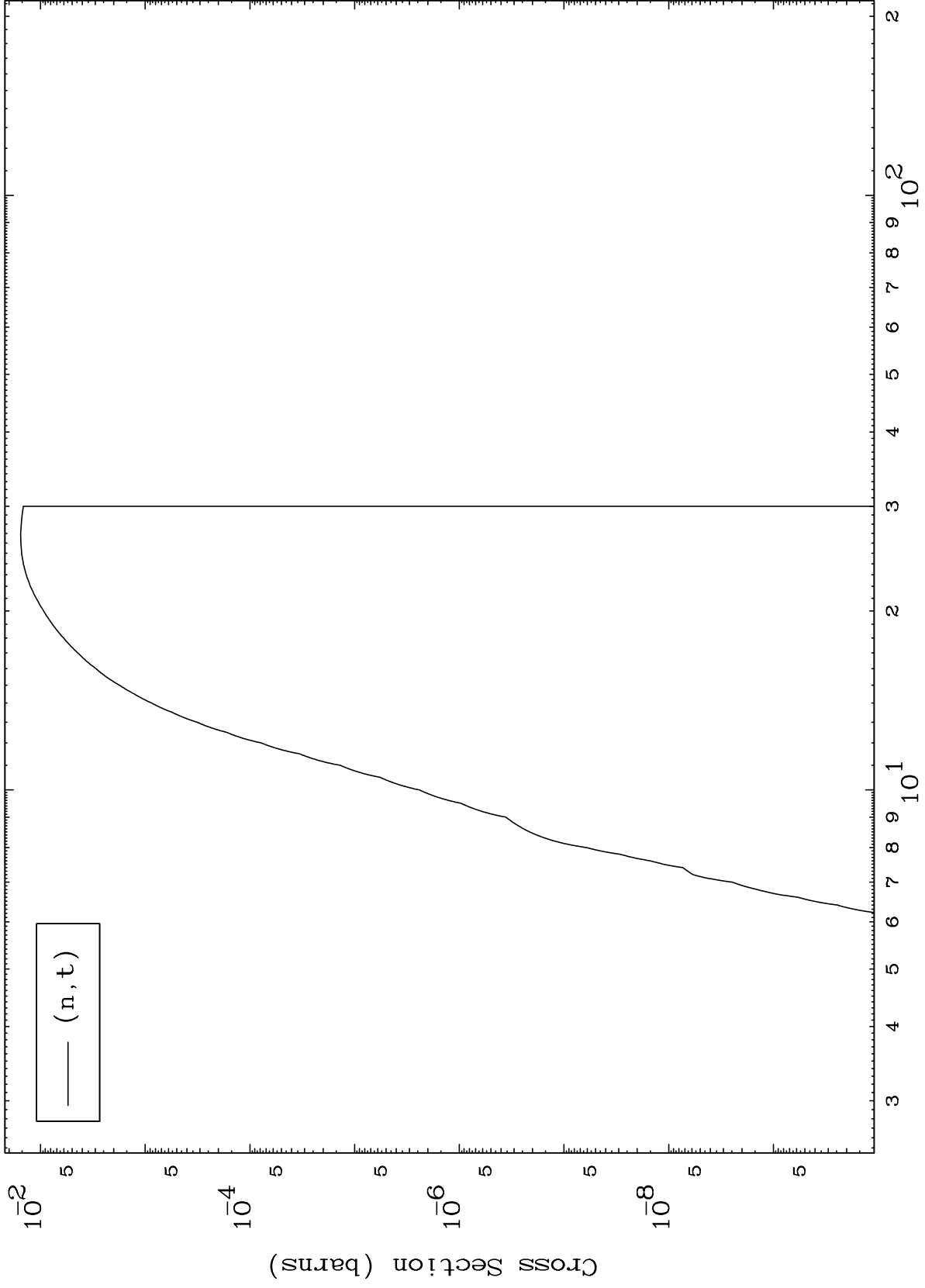
53-I -118



13

Incident Energy (MeV)

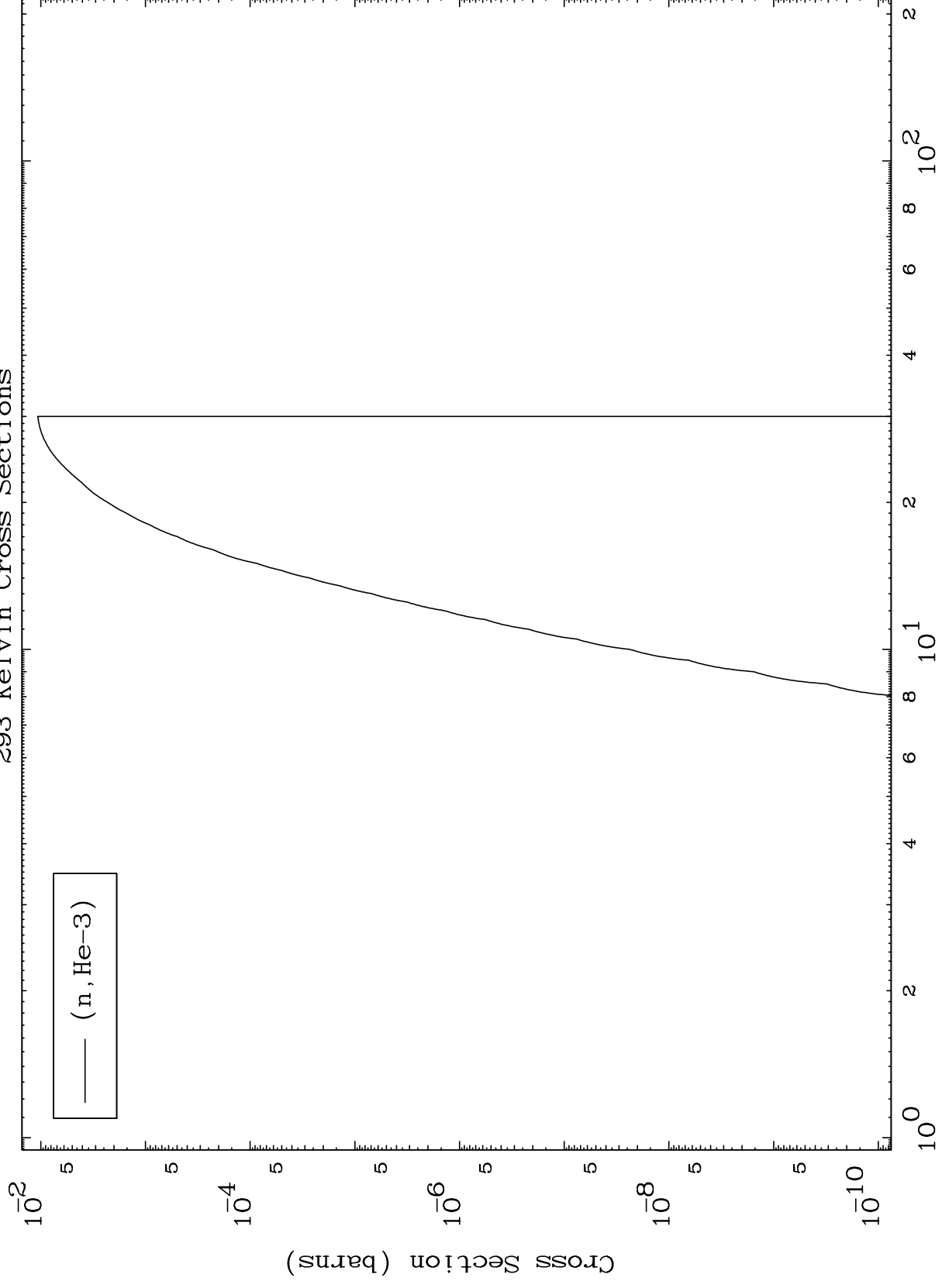
53-I -118



MAT 5298

(n,He3) Levels
293 Kelvin Cross Sections

53-I -118



15

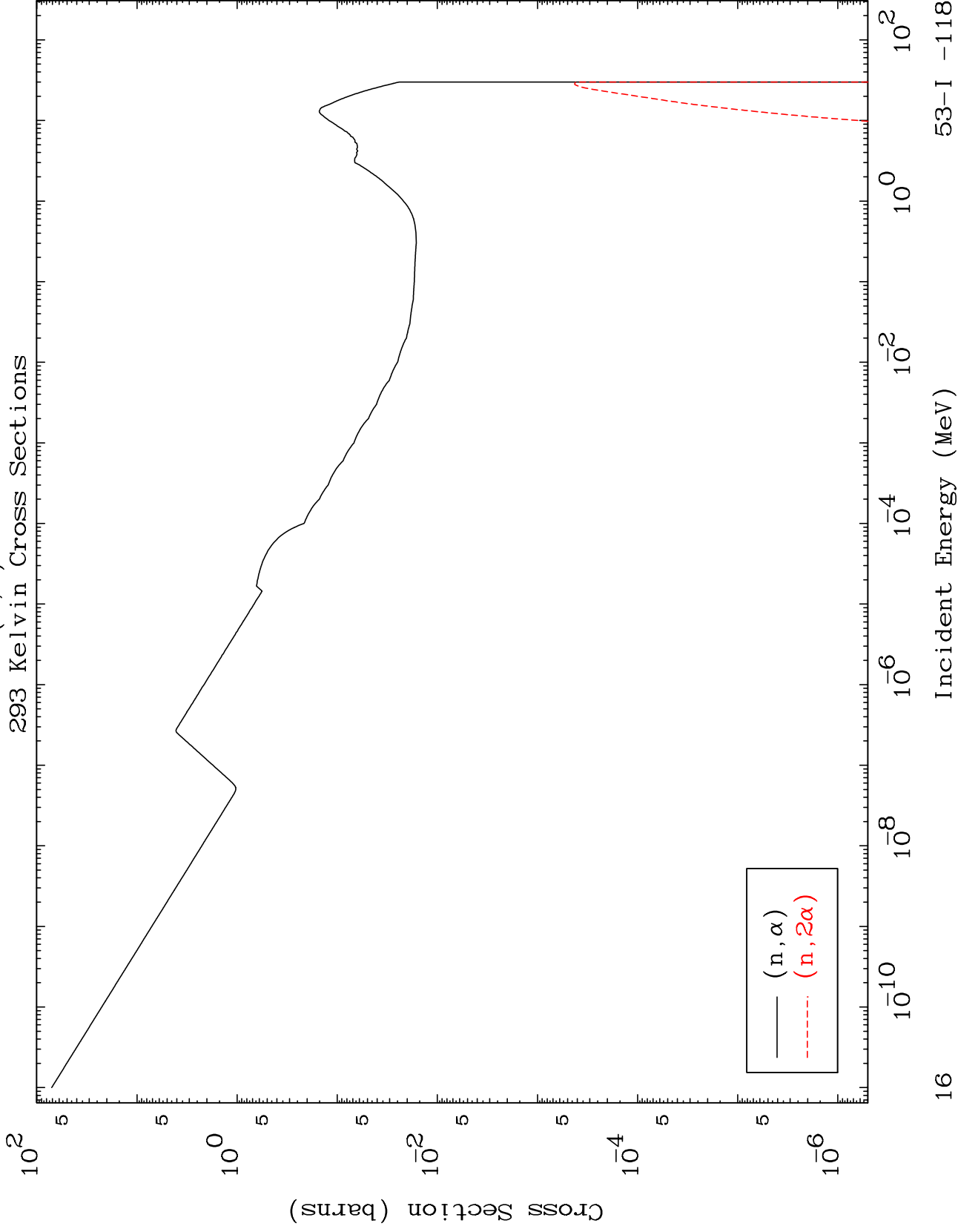
Incident Energy (MeV)

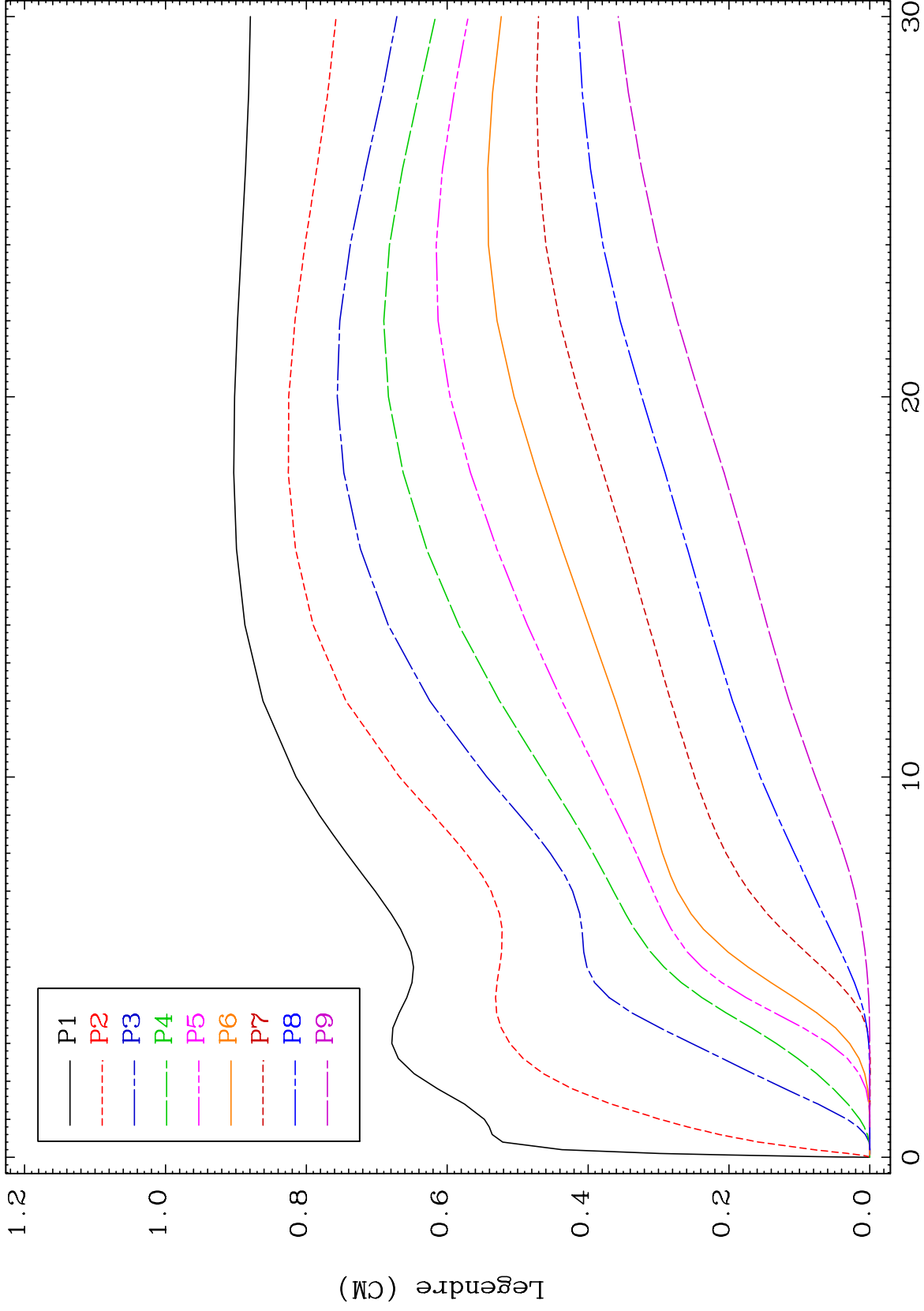
53-I -118

MAT 5298

(n,α) Levels
293 Kelvin Cross Sections

53-I -118

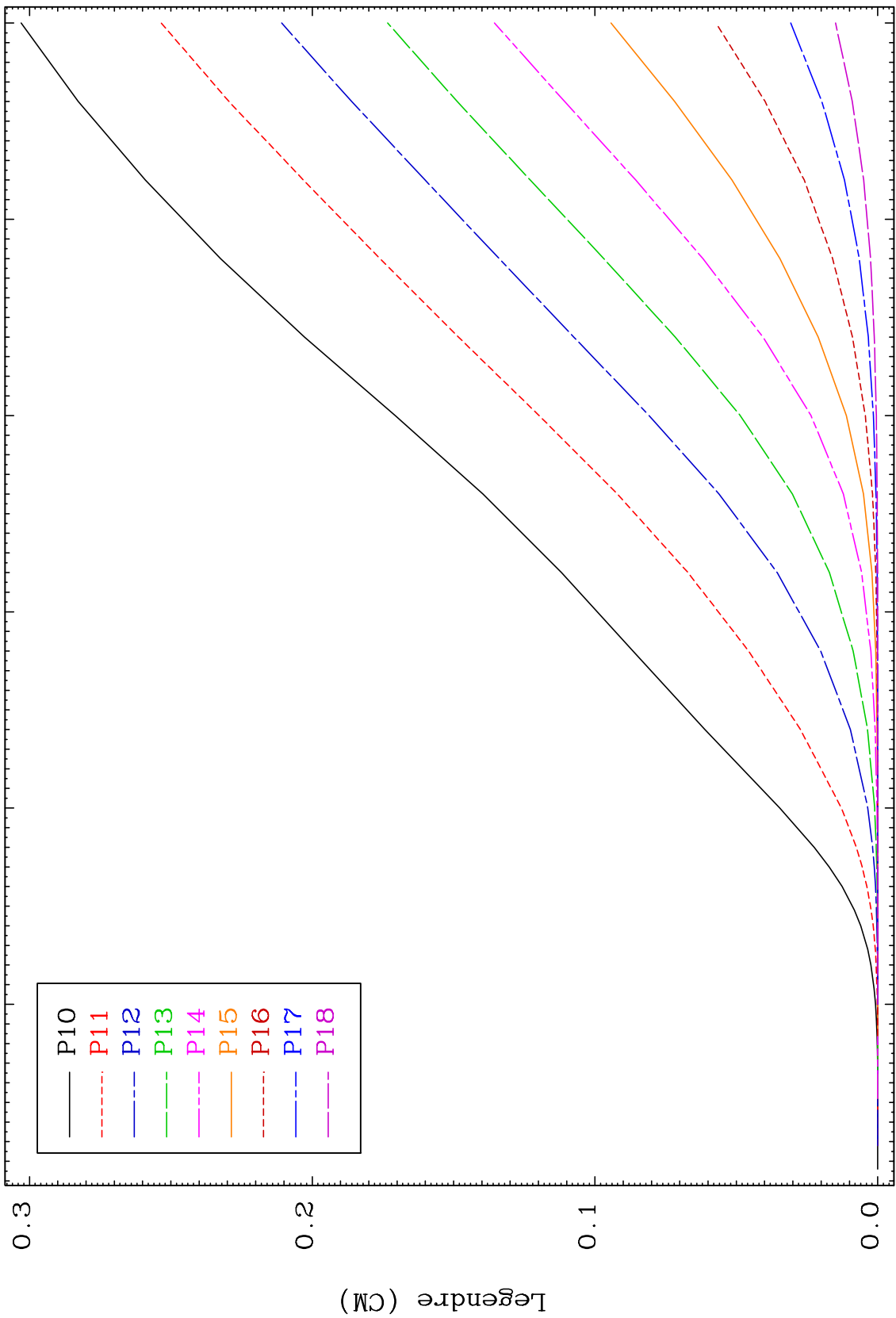




MAT 5298

Elastic Legendre Coefficients

53-I -118

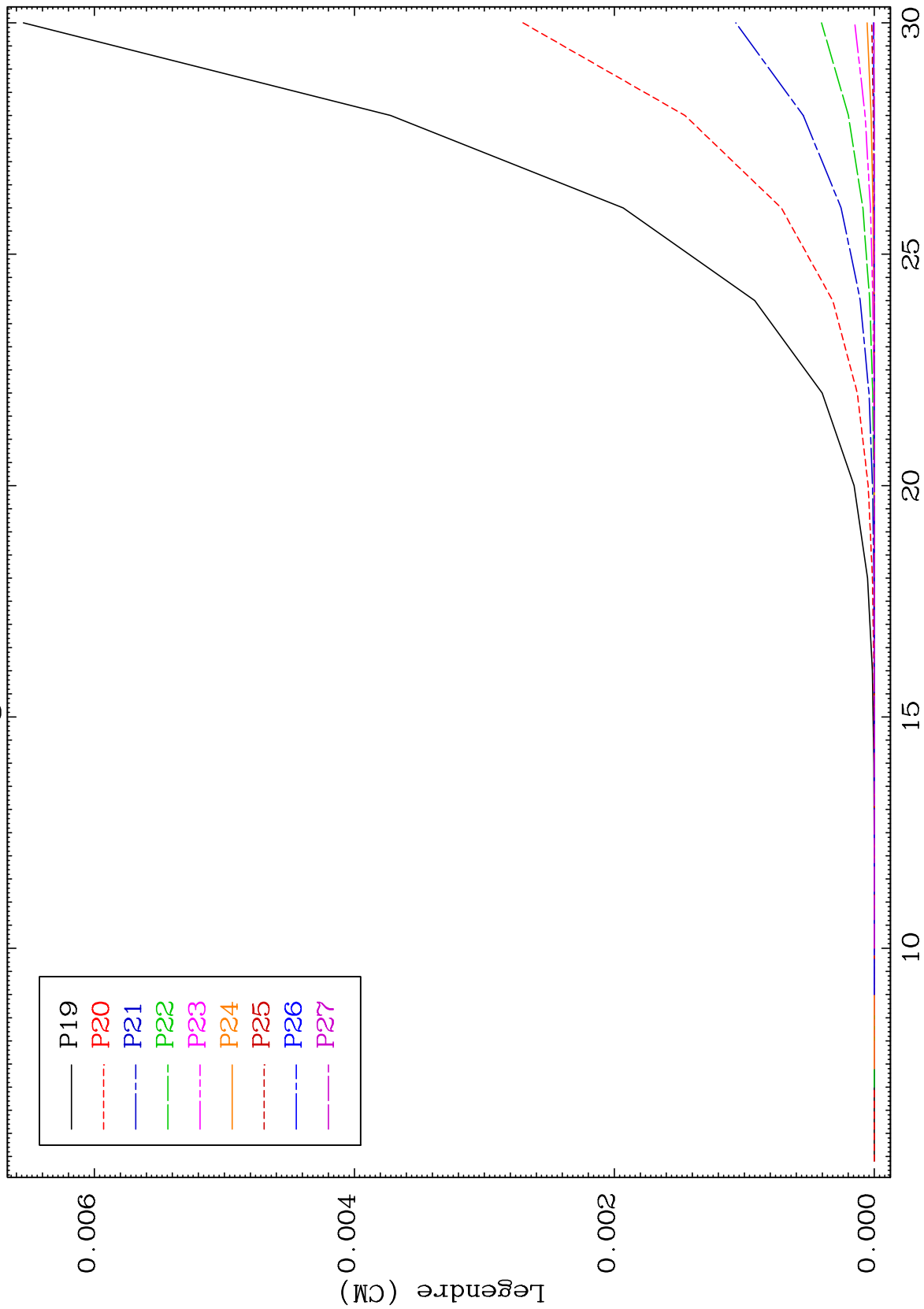


18

Incident Energy (MeV)

53-I -118

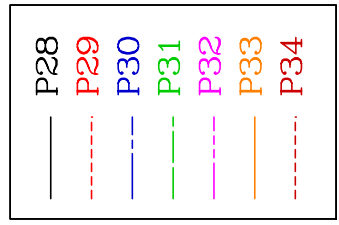
Elastic Legendre Coefficients



MAT 5298

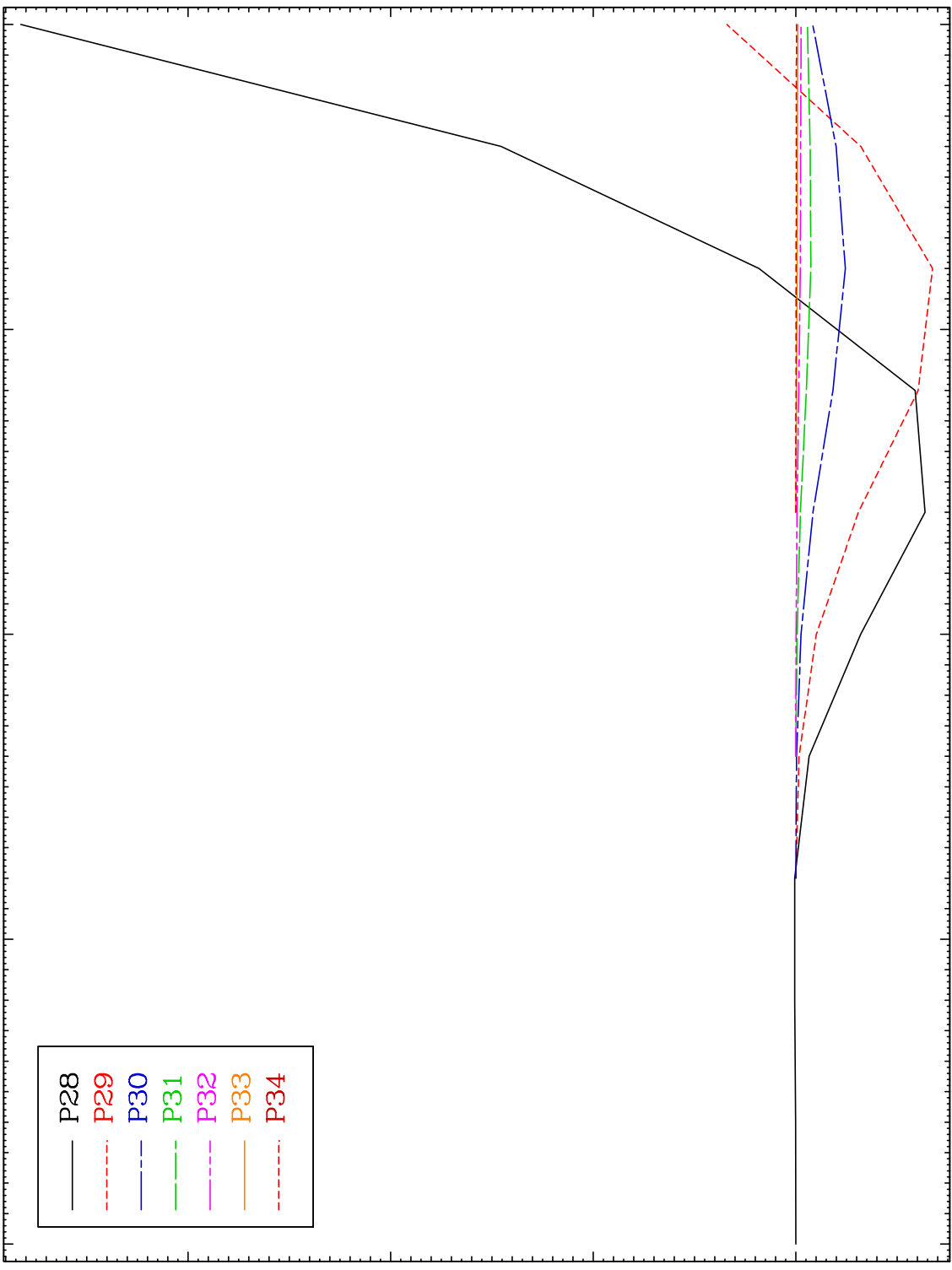
Elastic Legendre Coefficients

53-I -118



$\times 10^{-7}$

Legendre (CM)



30

25

20

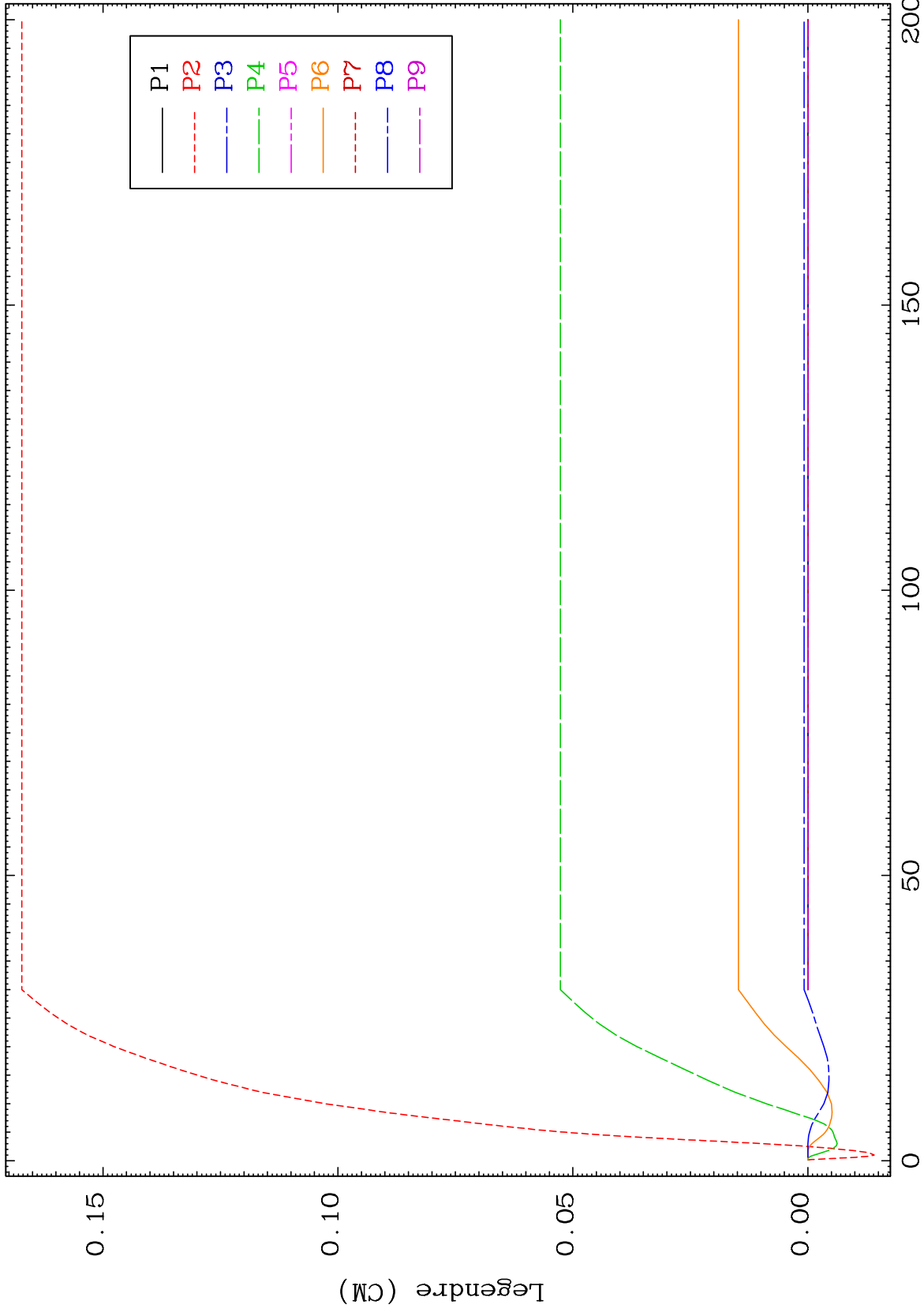
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10

Incident Energy (MeV)

53-I -118

20

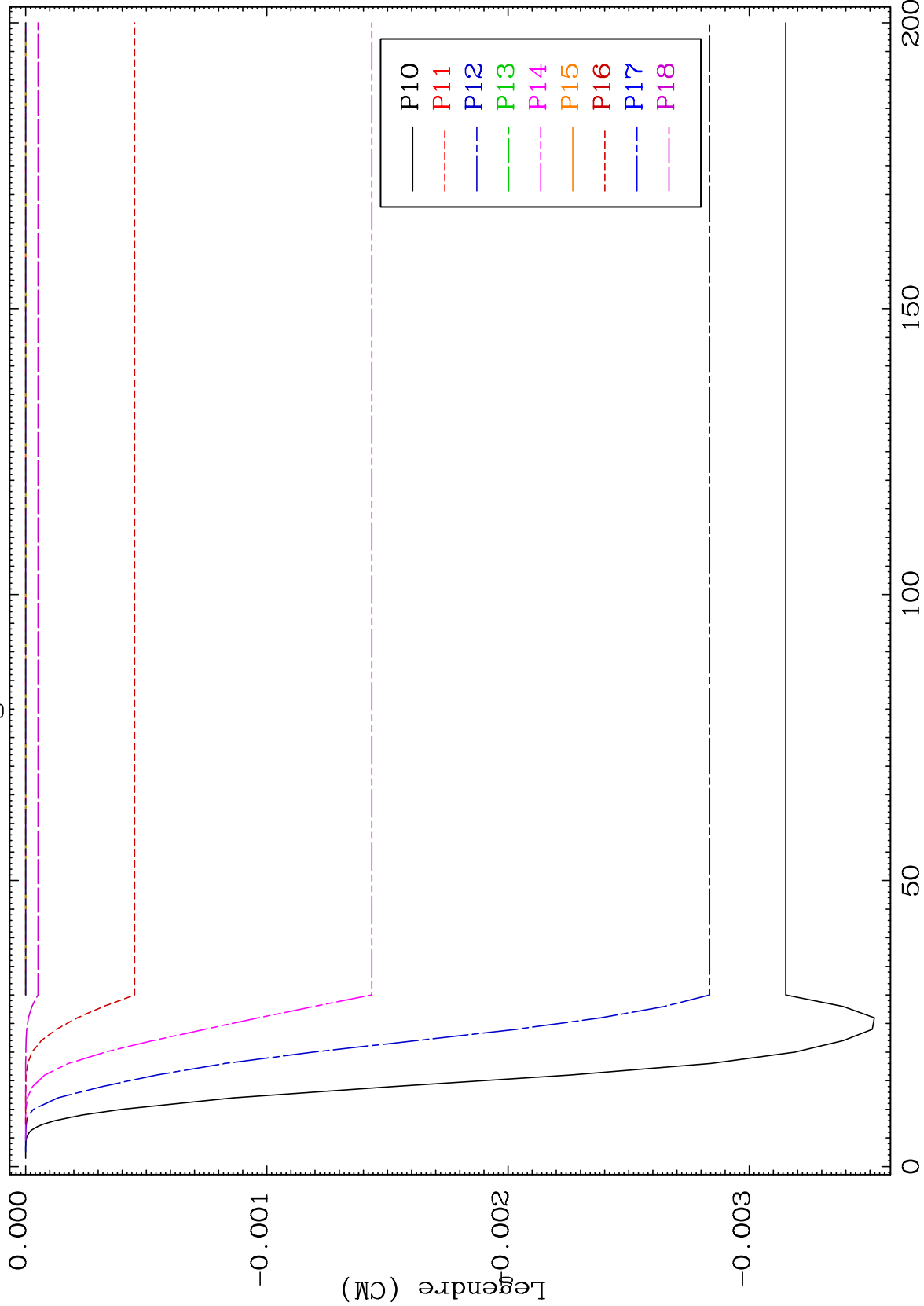


MAT 5298

MT= 51 (n,n') Level

53-I -118

Legendre Coefficients



22

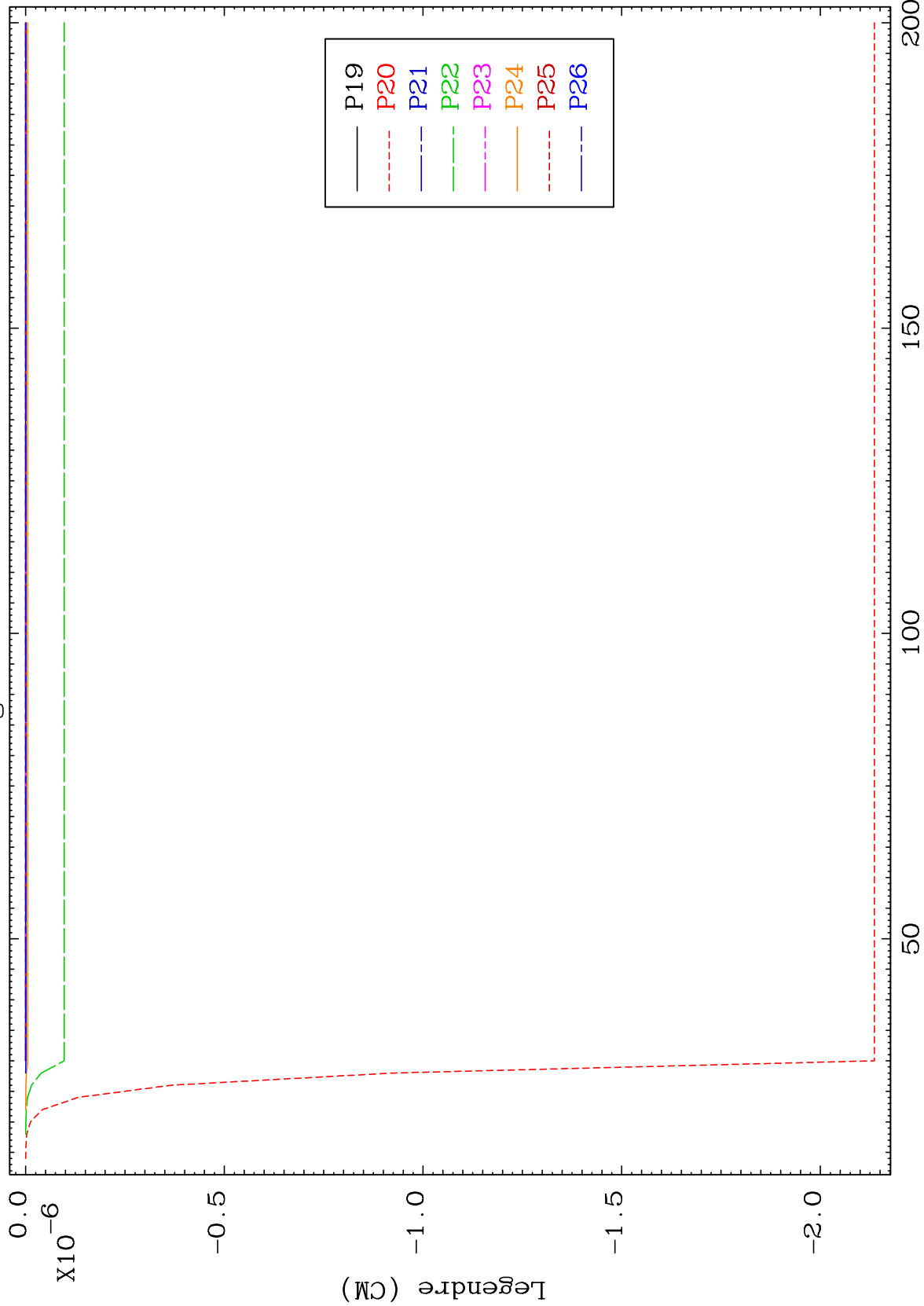
Incident Energy (MeV)

53-I -118

MAT 5298

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

53-I -118



23

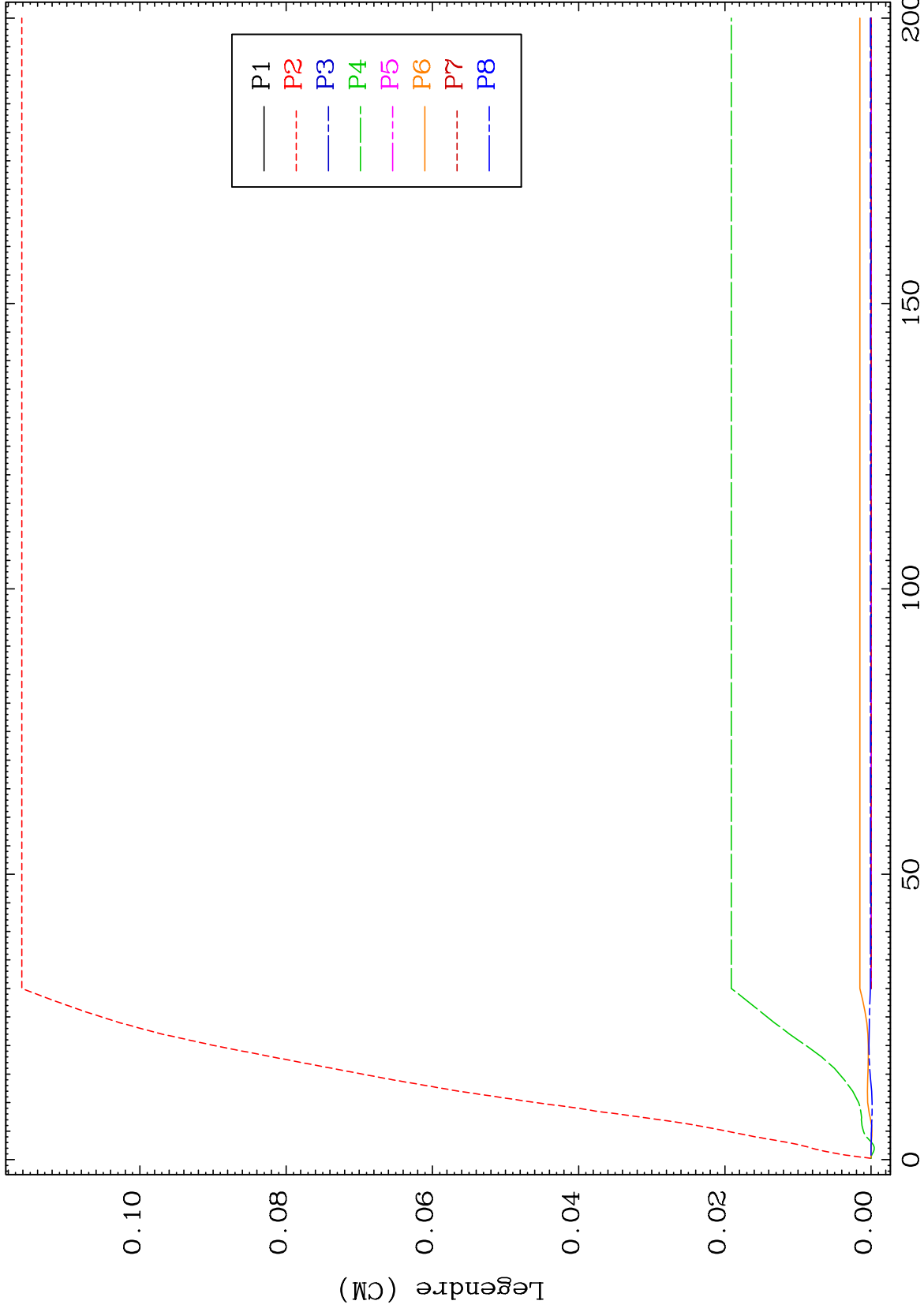
Incident Energy (MeV)

53-I -118

MAT 5298

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

53-I -118



24

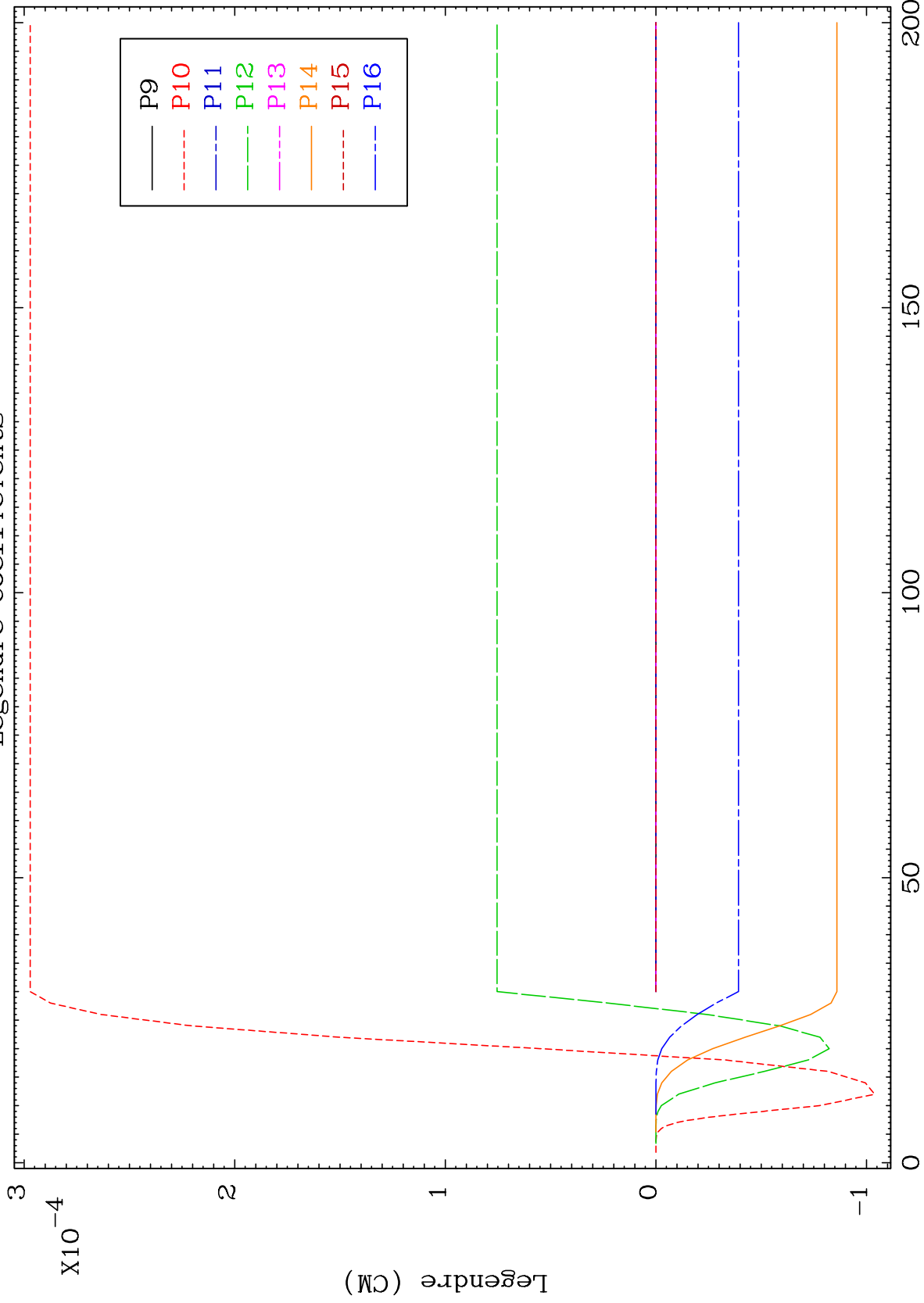
Incident Energy (MeV)

53-I -118

MAT 5298

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

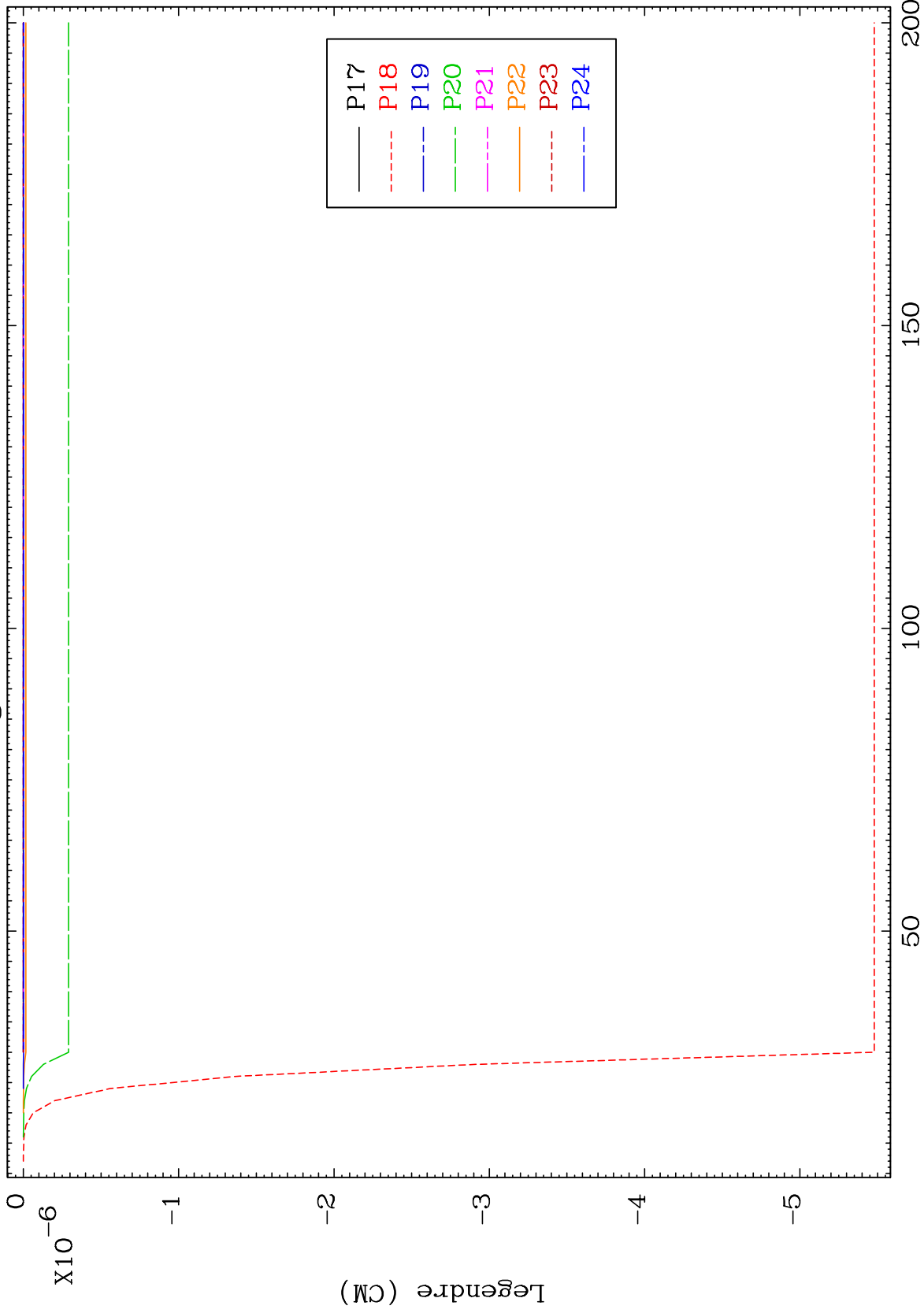
53-I -118

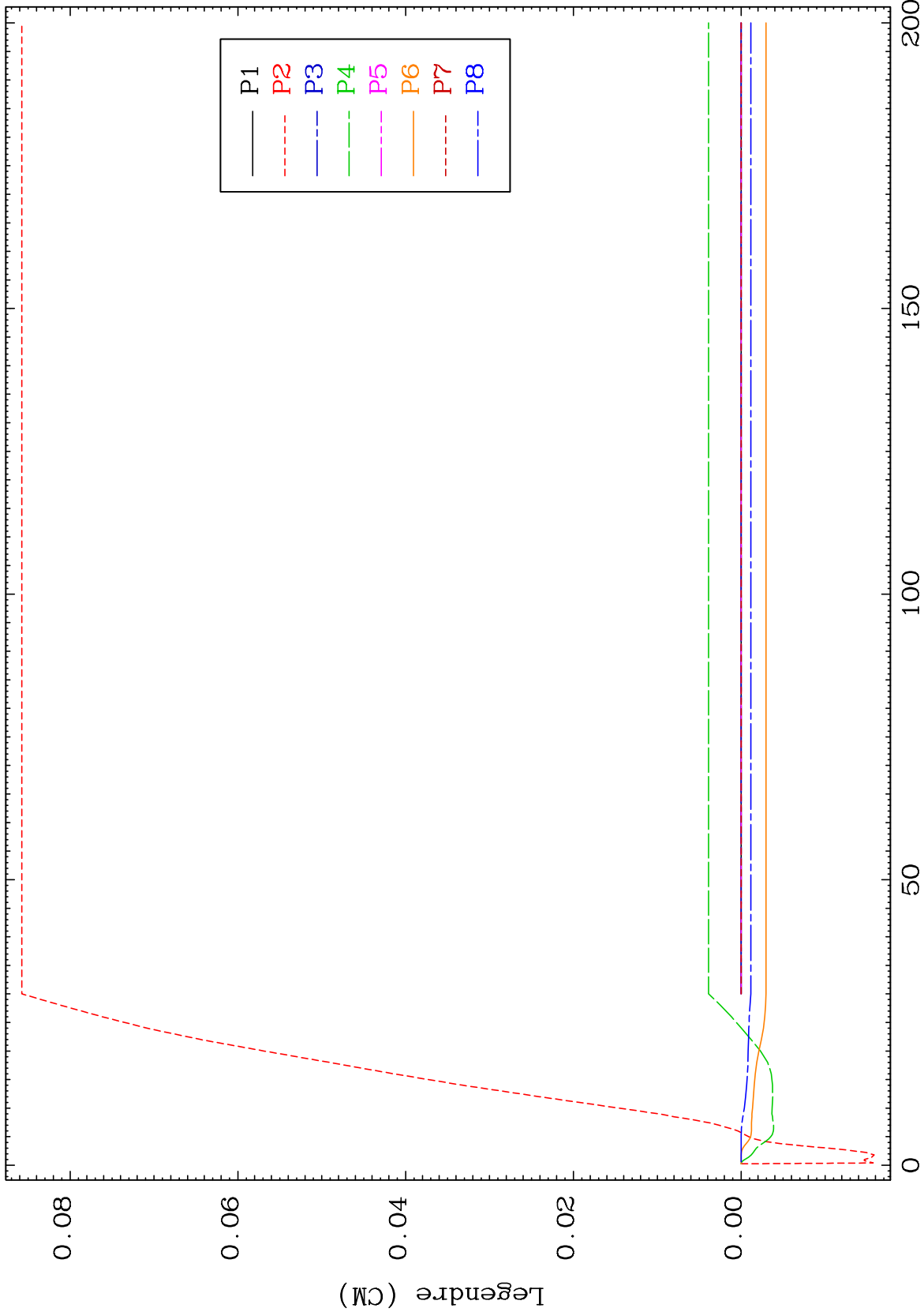


25

Incident Energy (MeV)

53-I -118

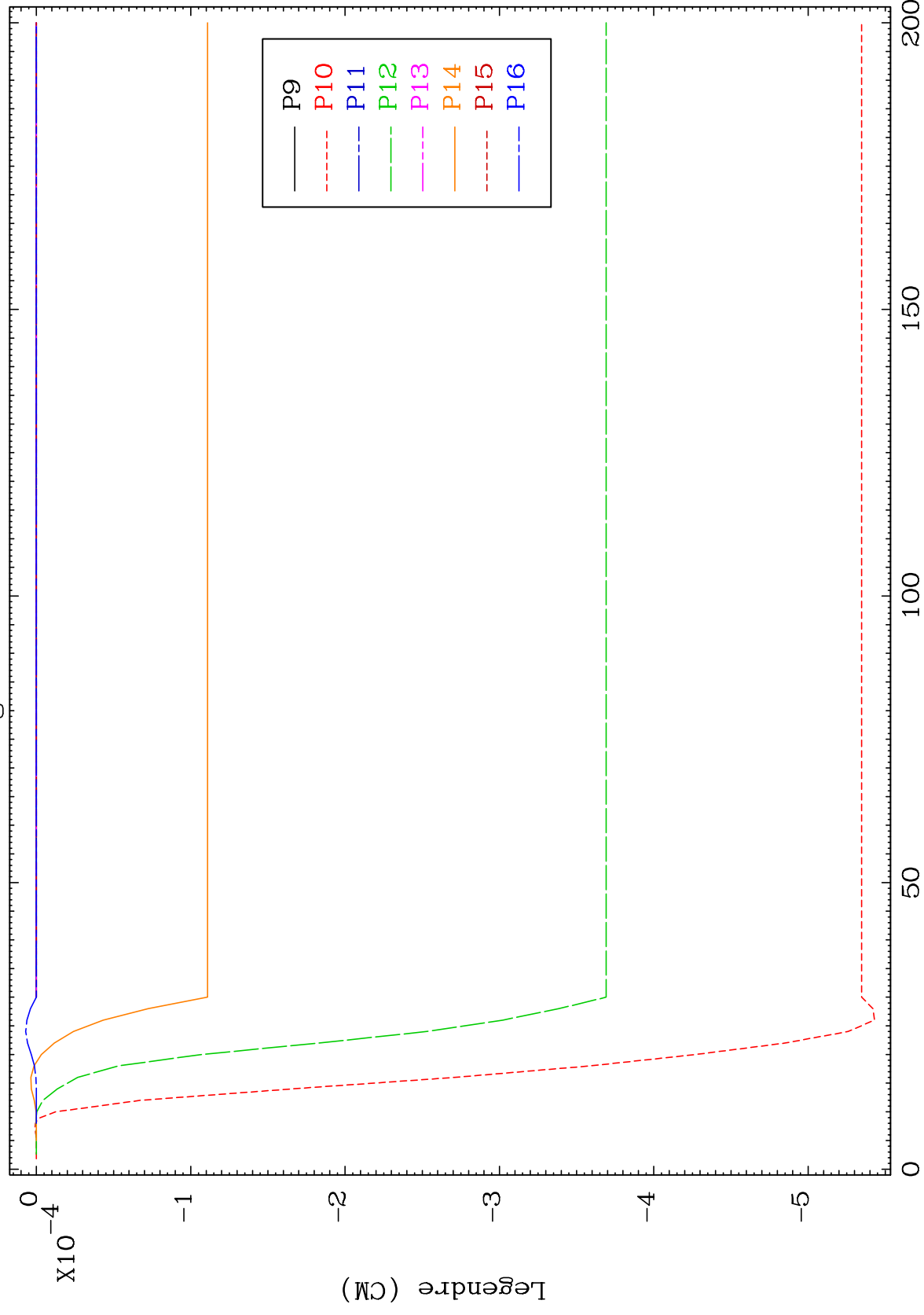




MAT 5298

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

53-I -118



28

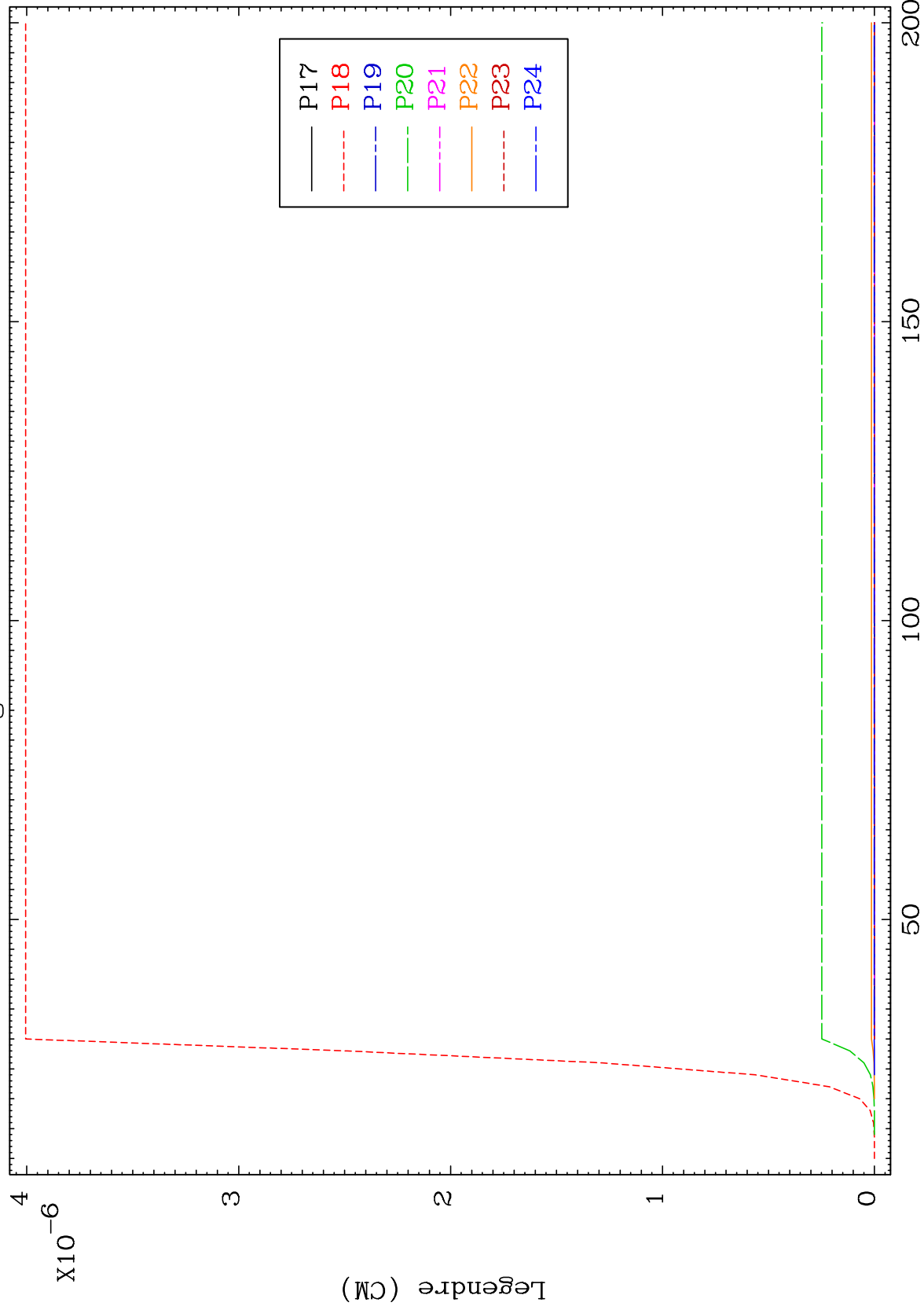
Incident Energy (MeV)

53-I -118

MAT 5298

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

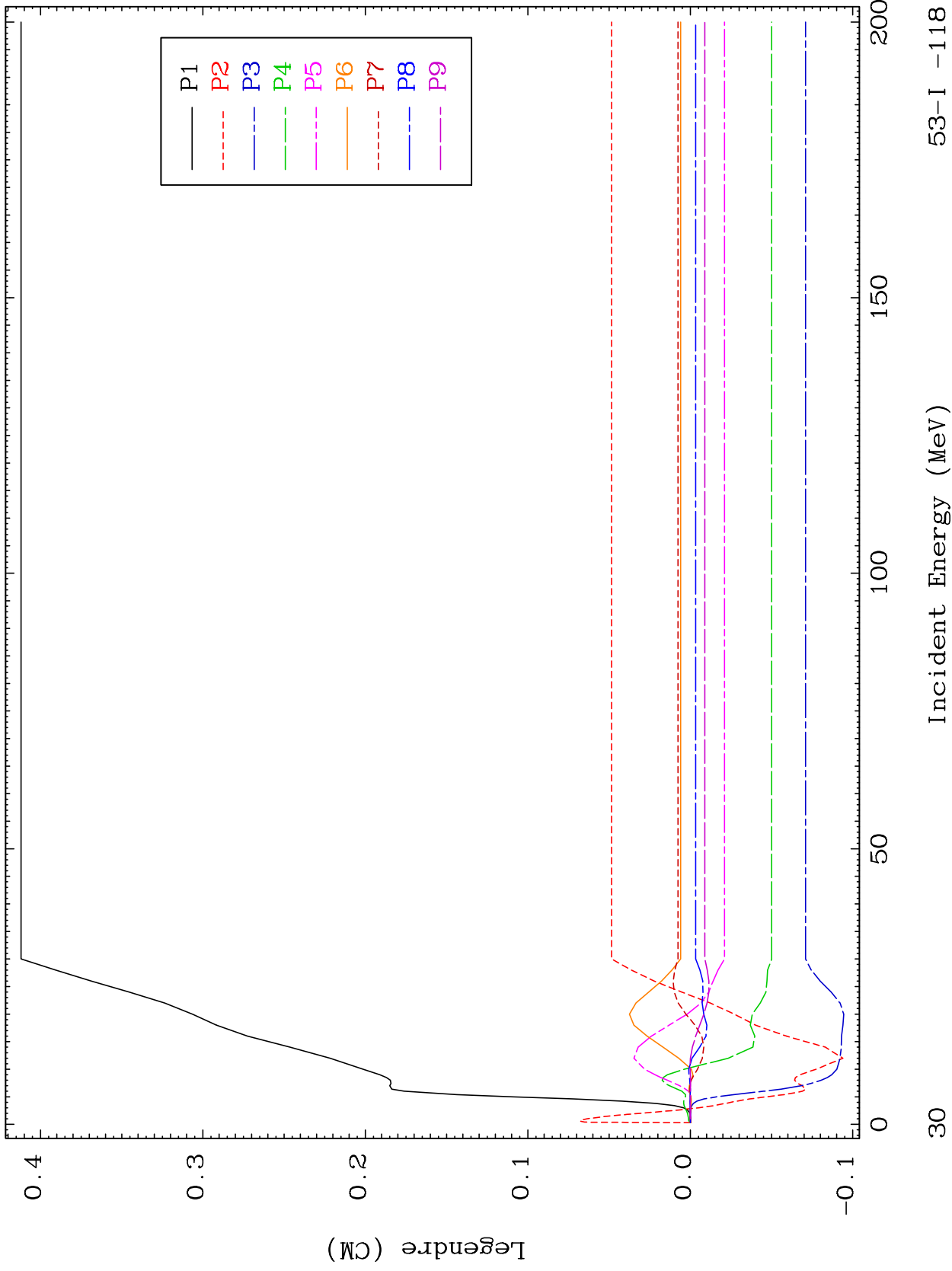
53-I -118



29

Incident Energy (MeV)

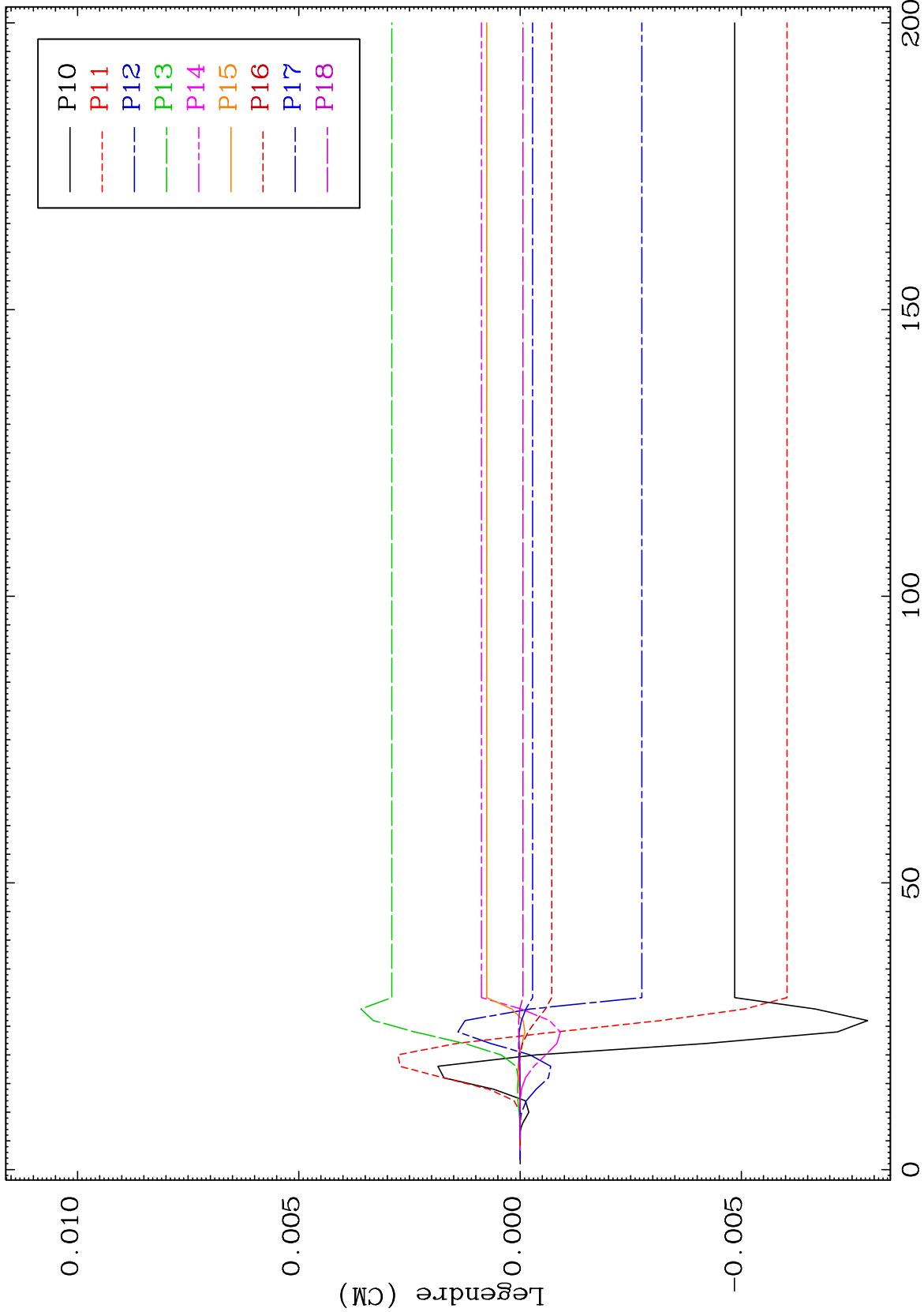
53-I -118



MAT 5298

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

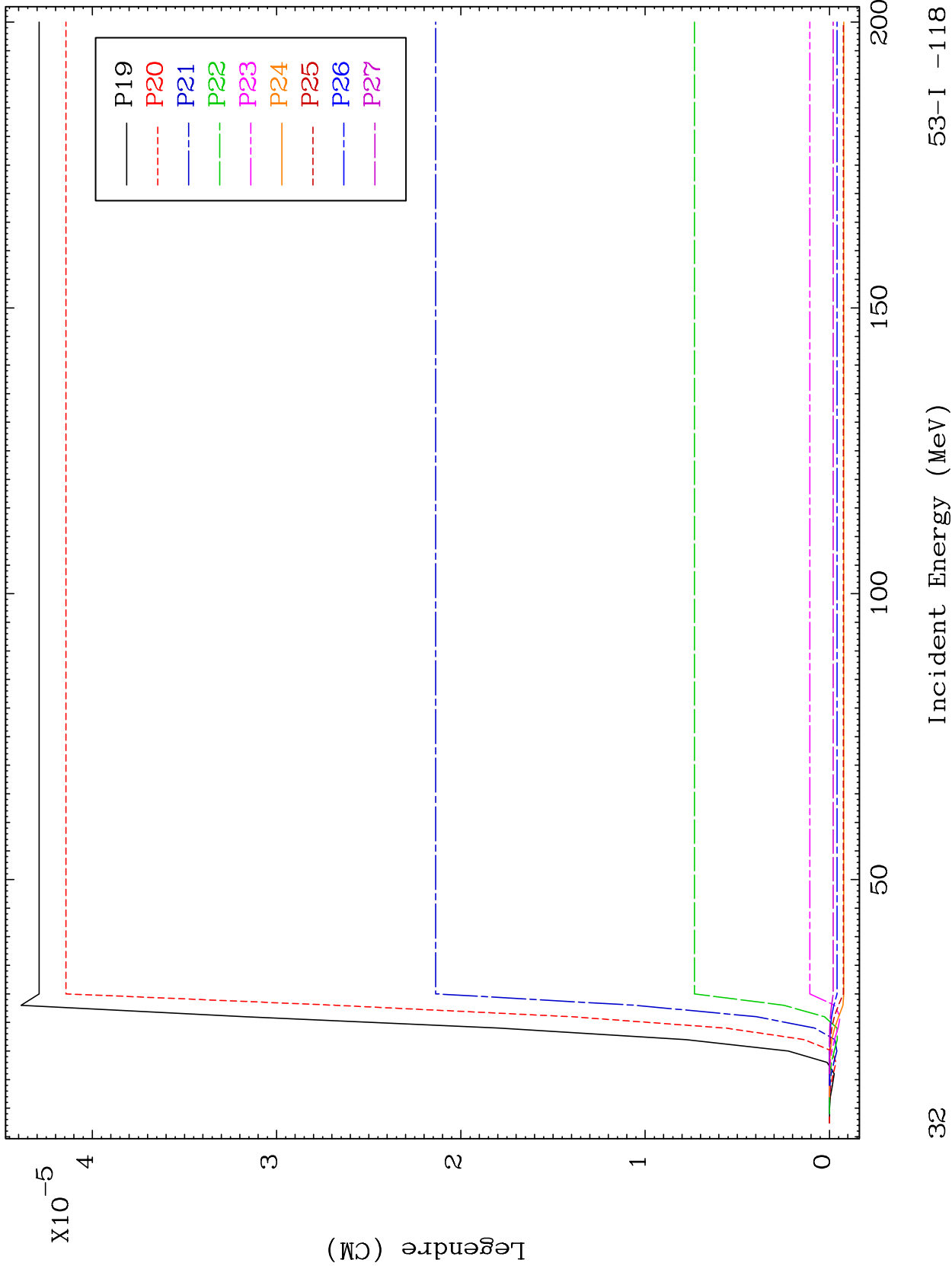
53-I -118

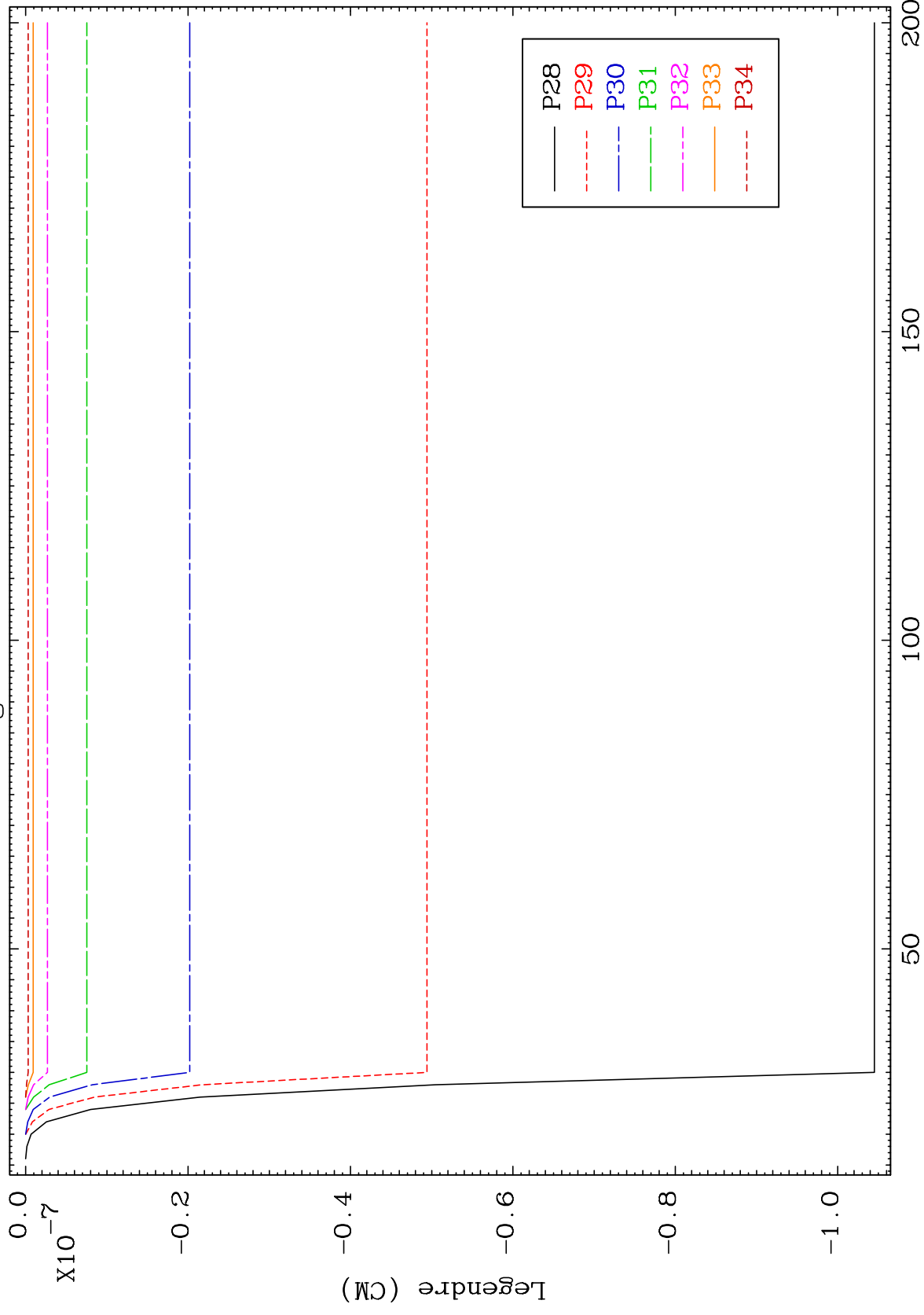


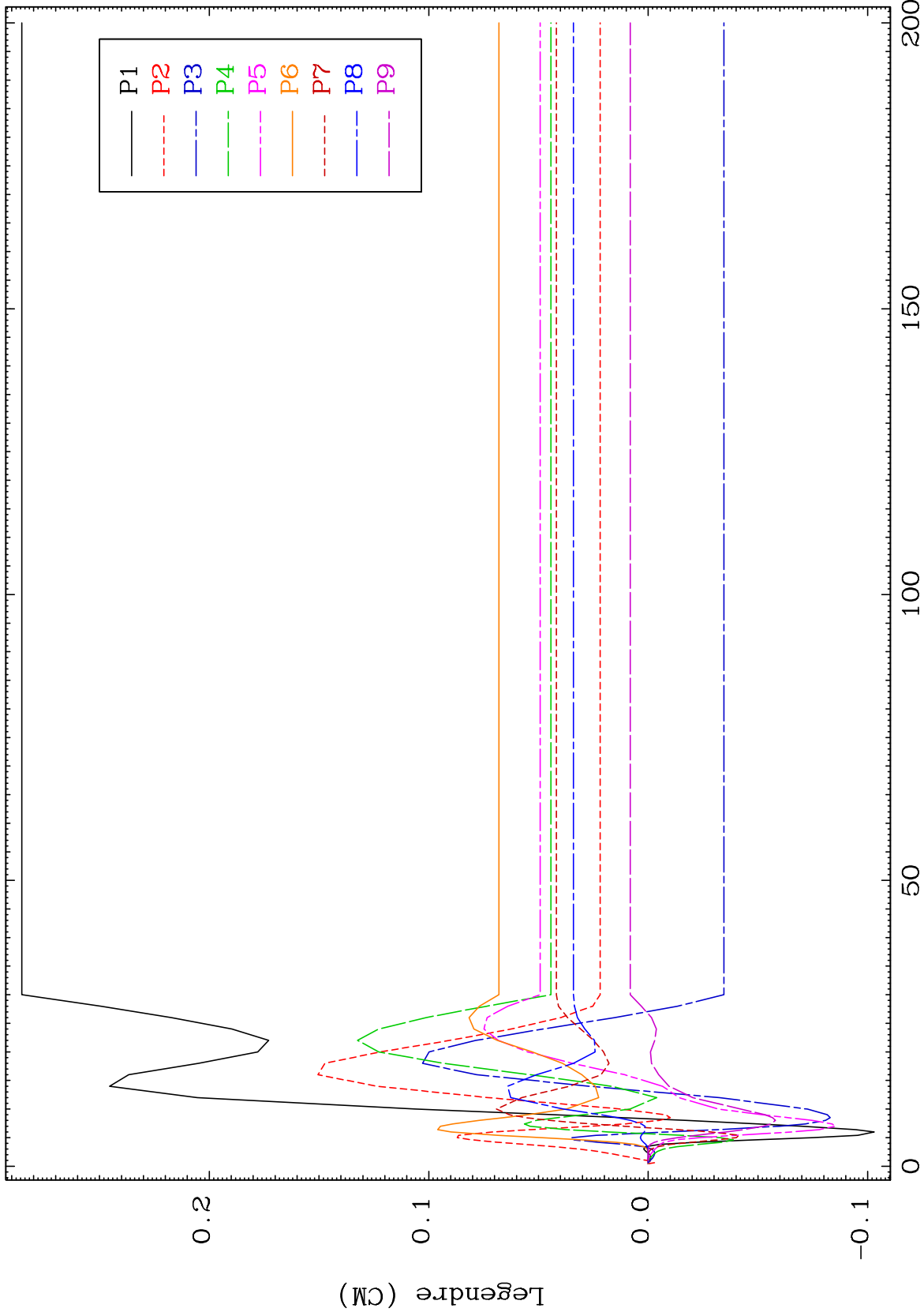
31

Incident Energy (MeV)

53-I -118





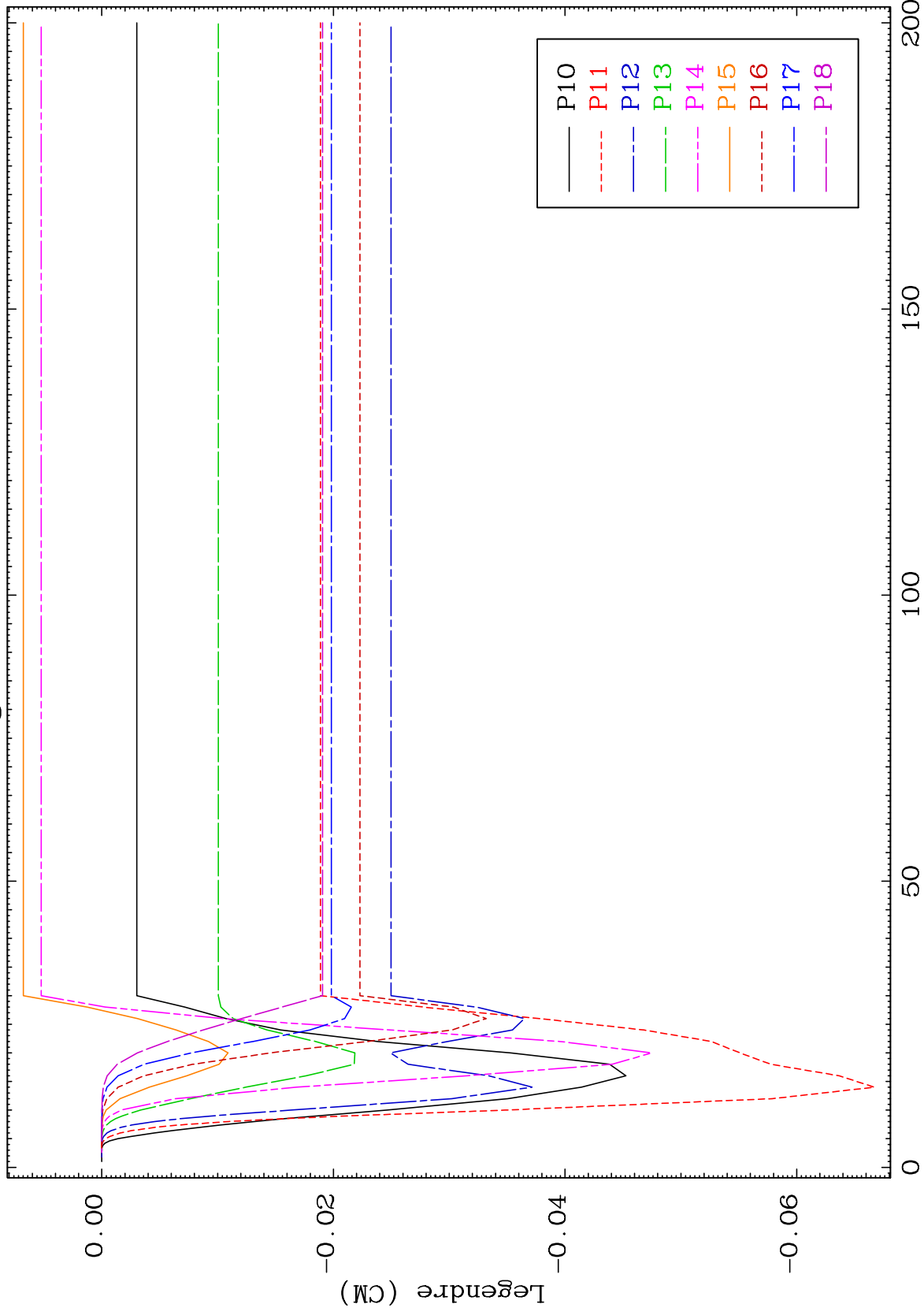


MAT 5298

MT= 55 (n,n') Level

53-I -118

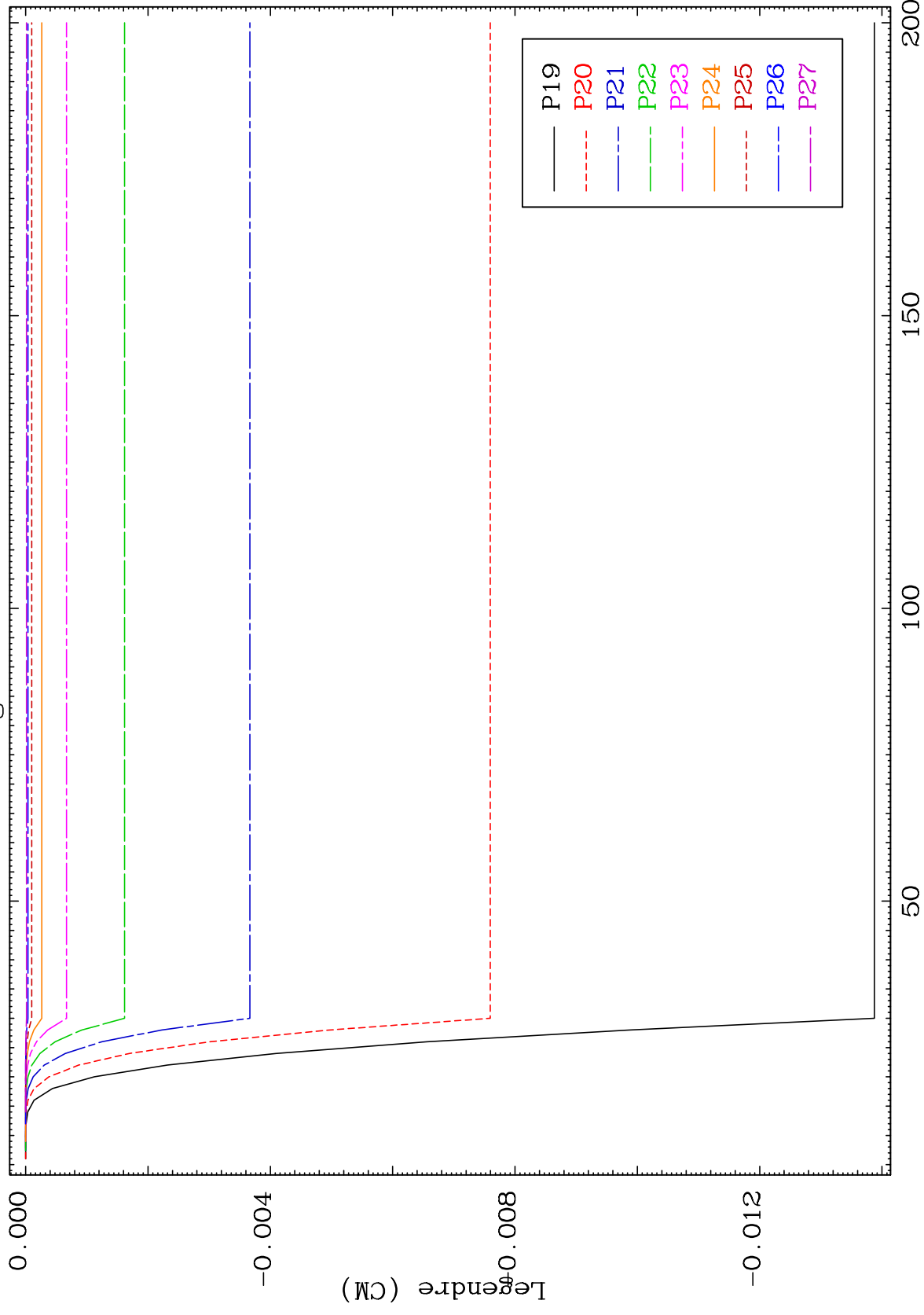
Legendre Coefficients



35

Incident Energy (MeV)

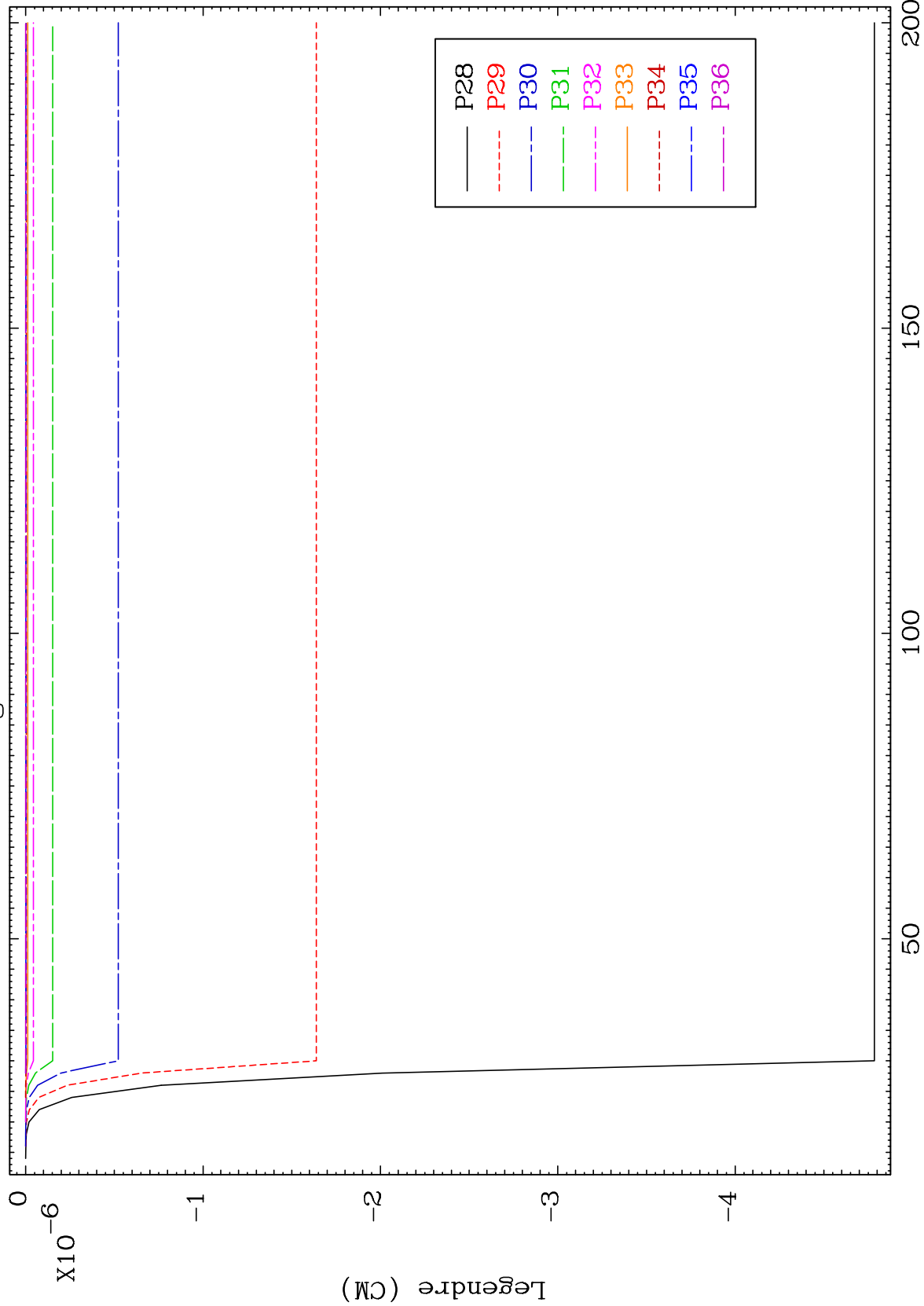
53-I -118



MAT 5298

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

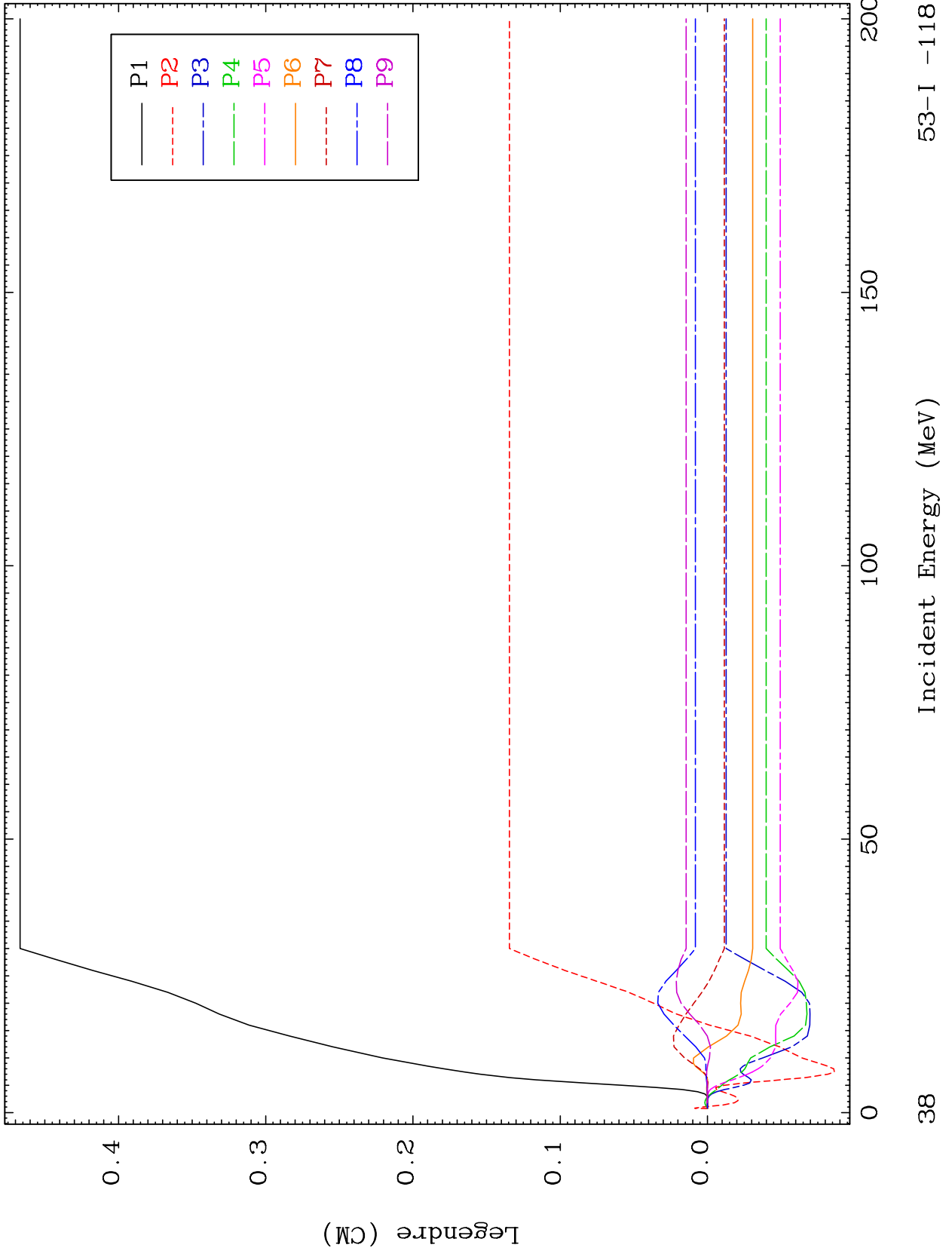
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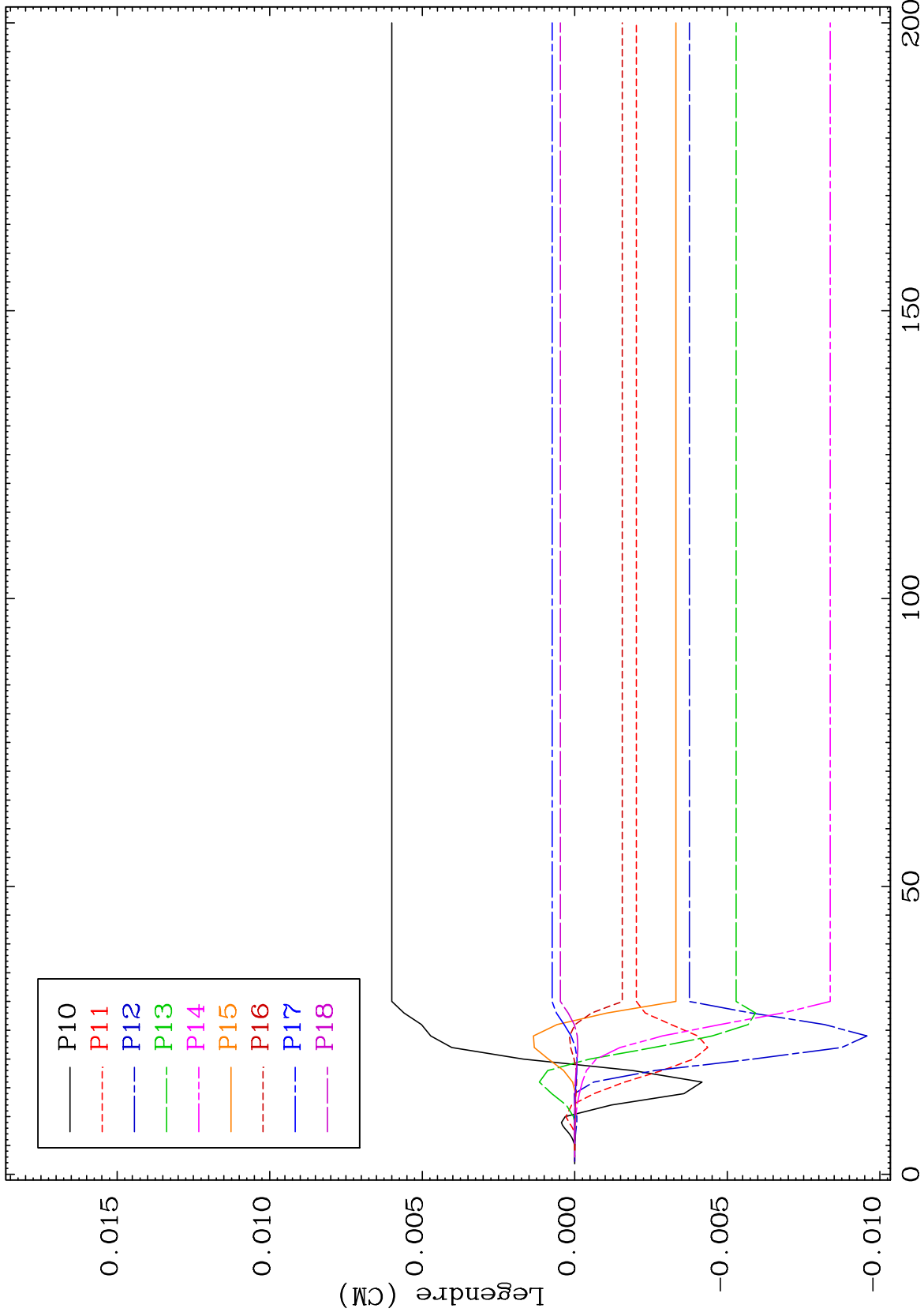


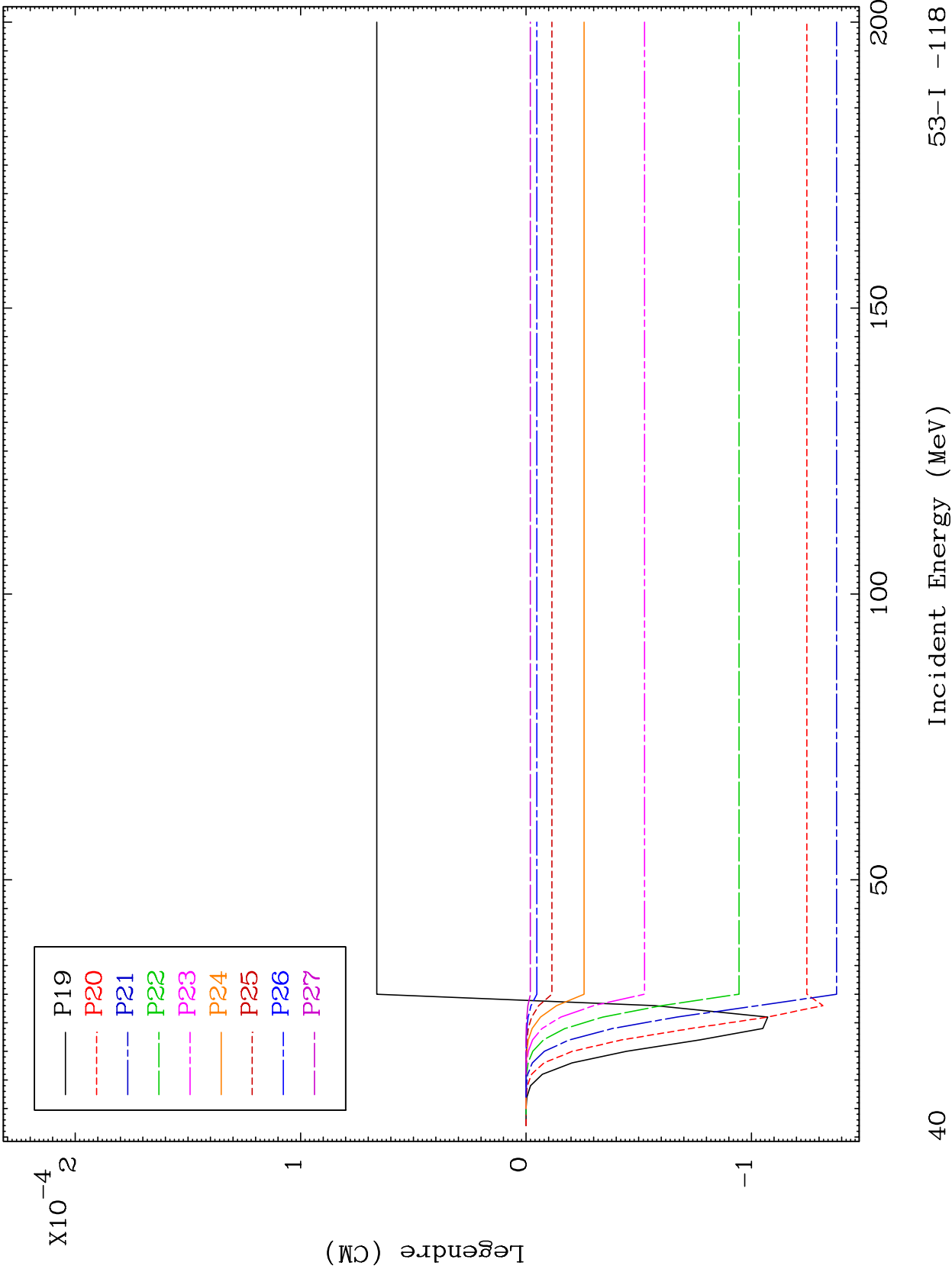
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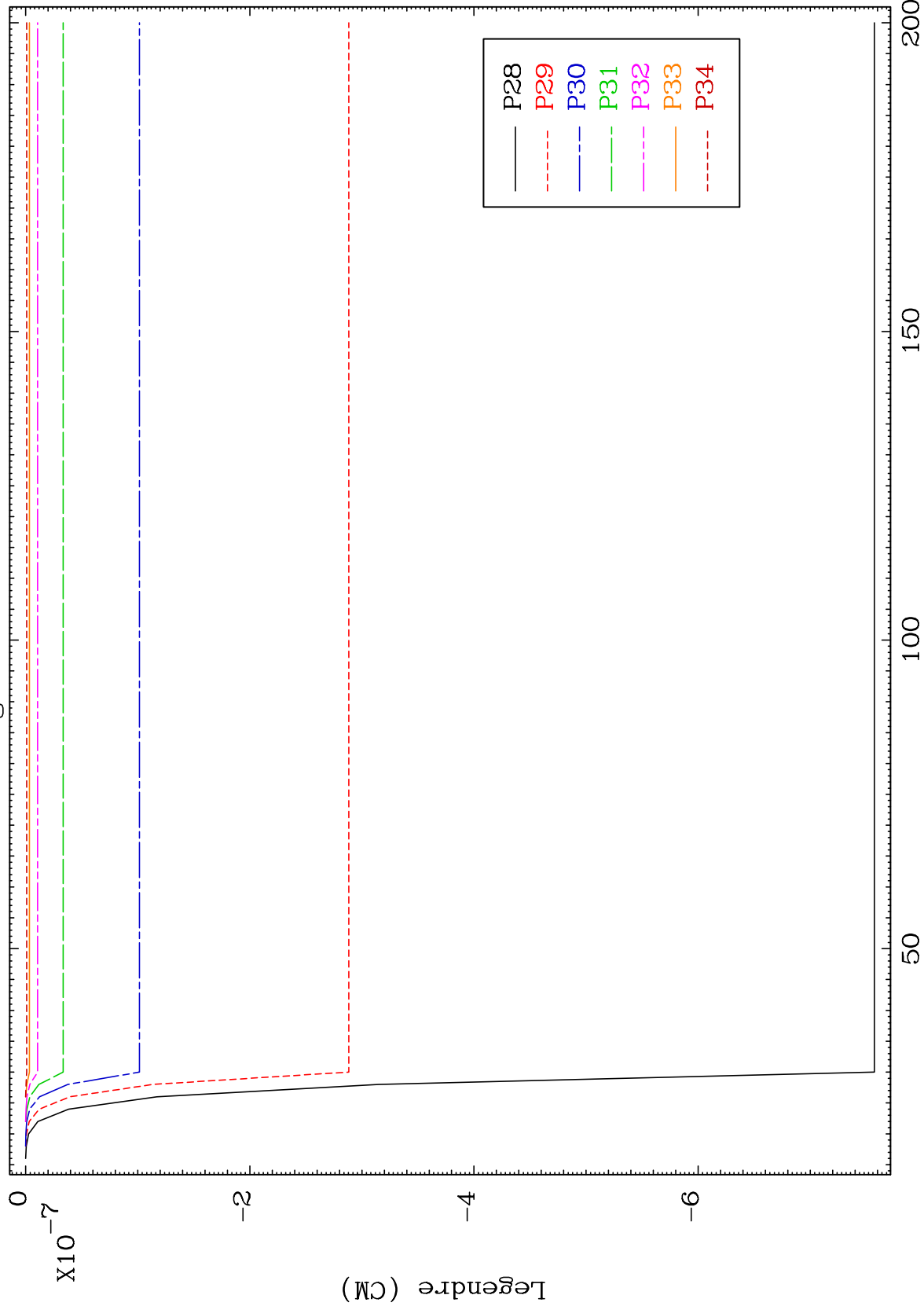
Incident Energy (MeV)

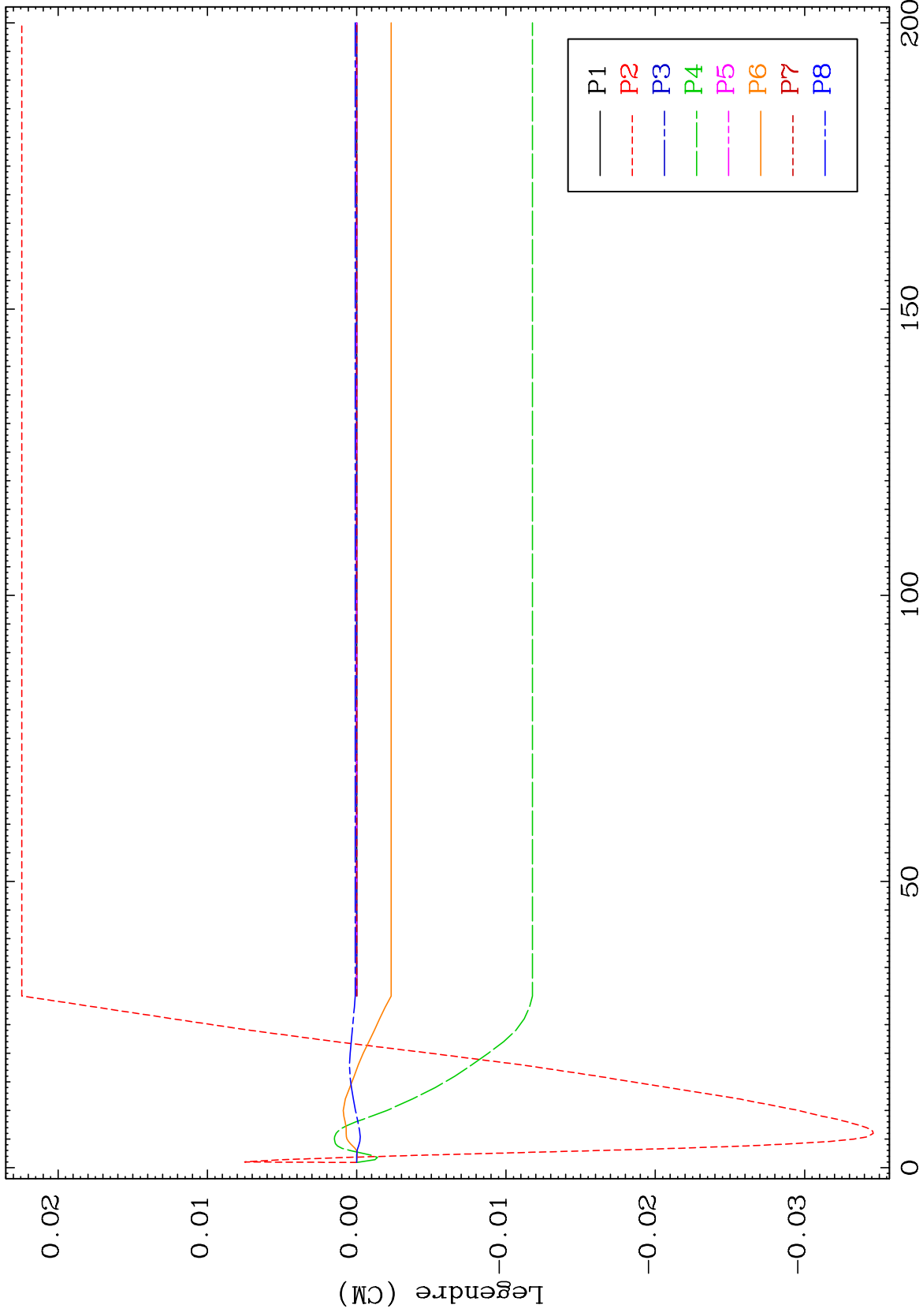
53-I -118







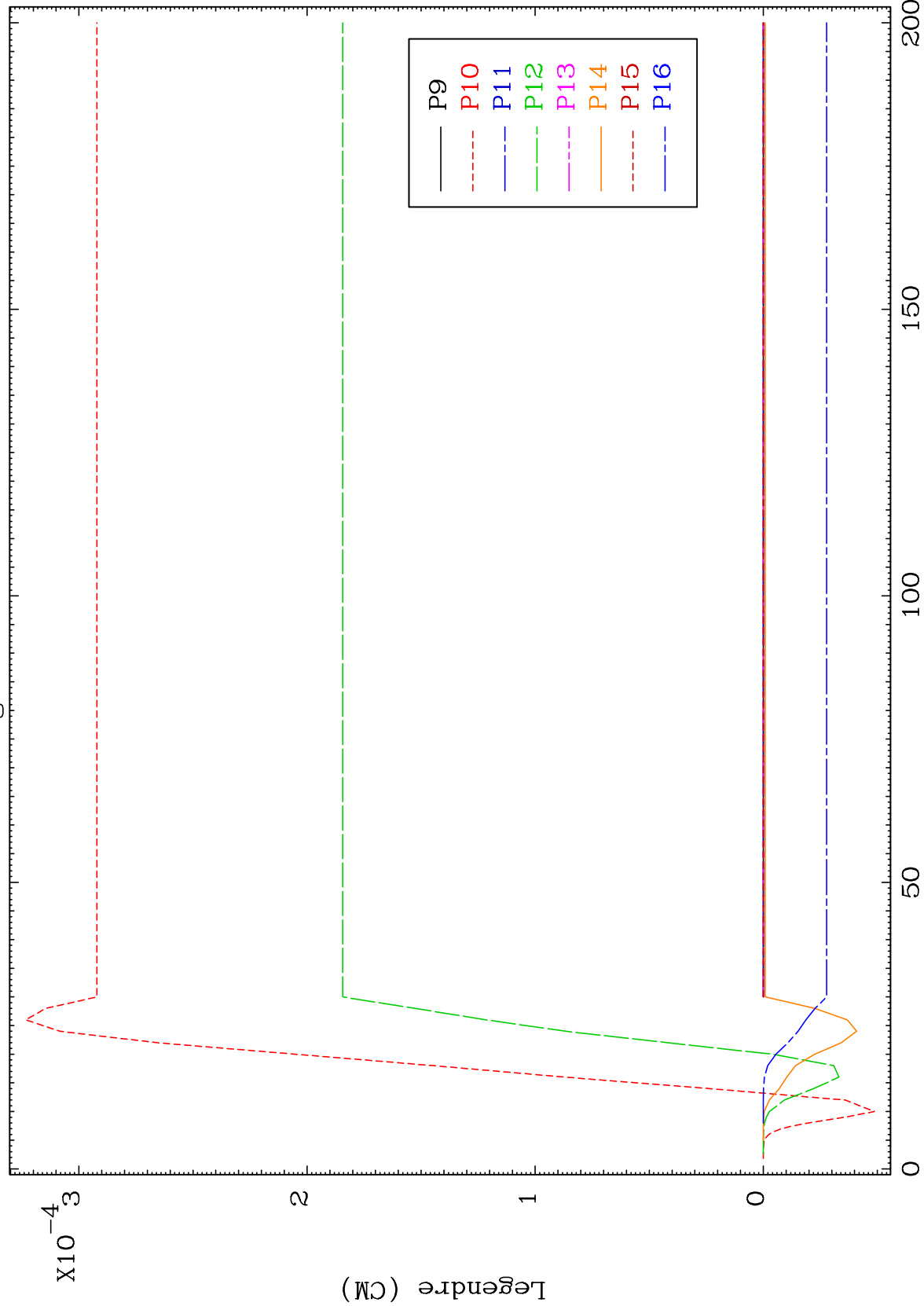




MAT 5298

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

53-I -118



43

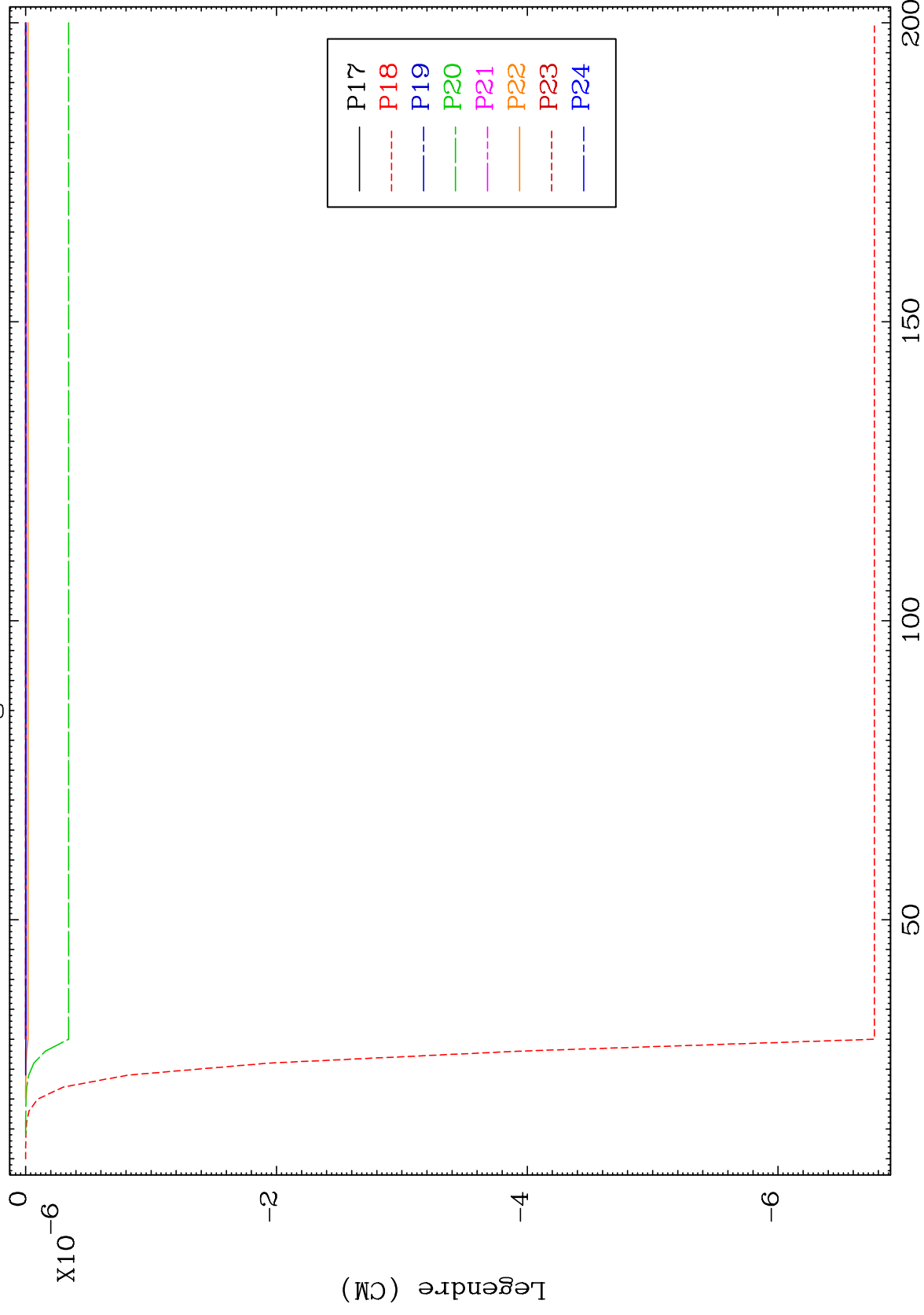
Incident Energy (MeV)

53-I -118

MAT 5298

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

53-I -118



44

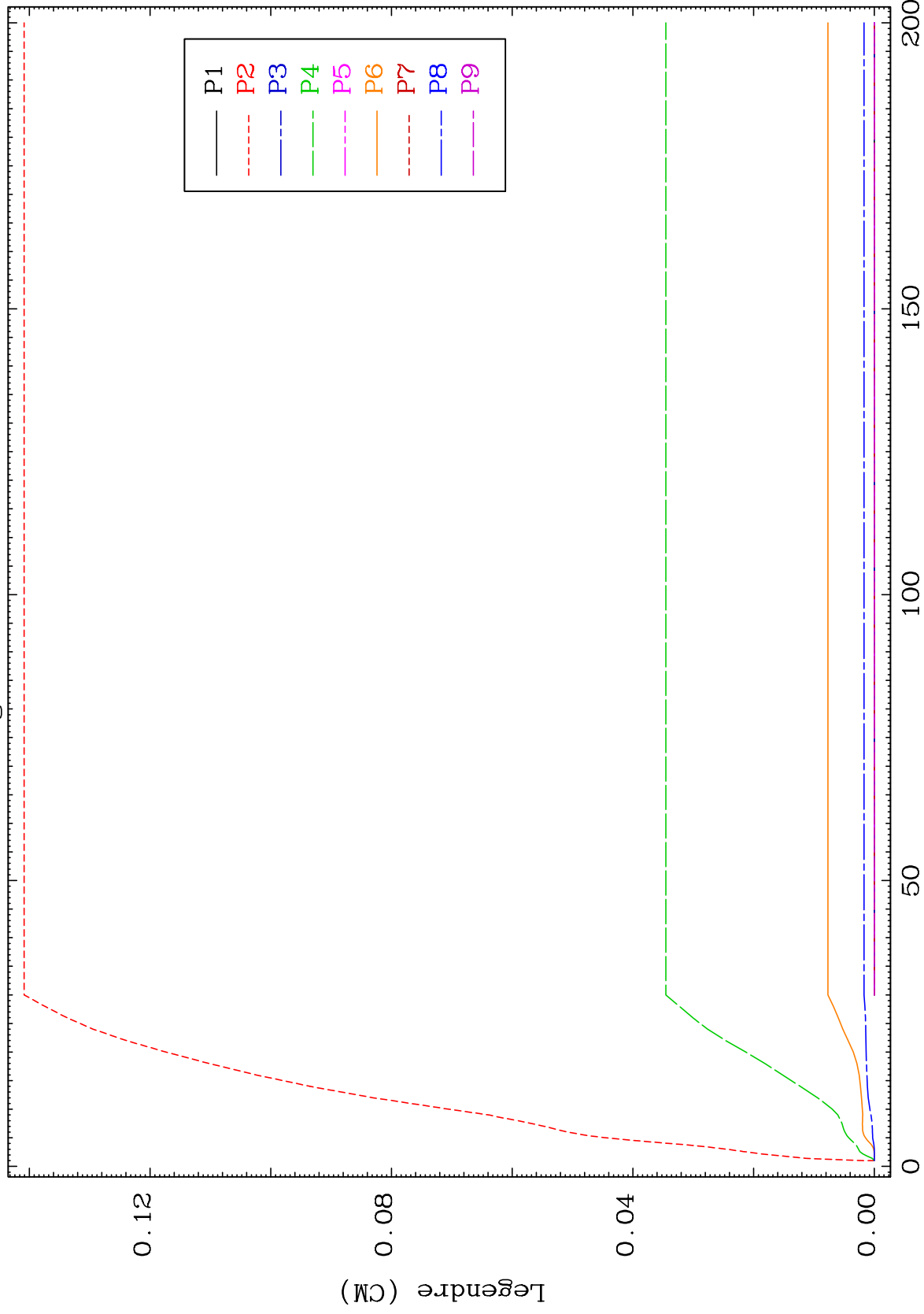
Incident Energy (MeV)

53-I -118

MAT 5298

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

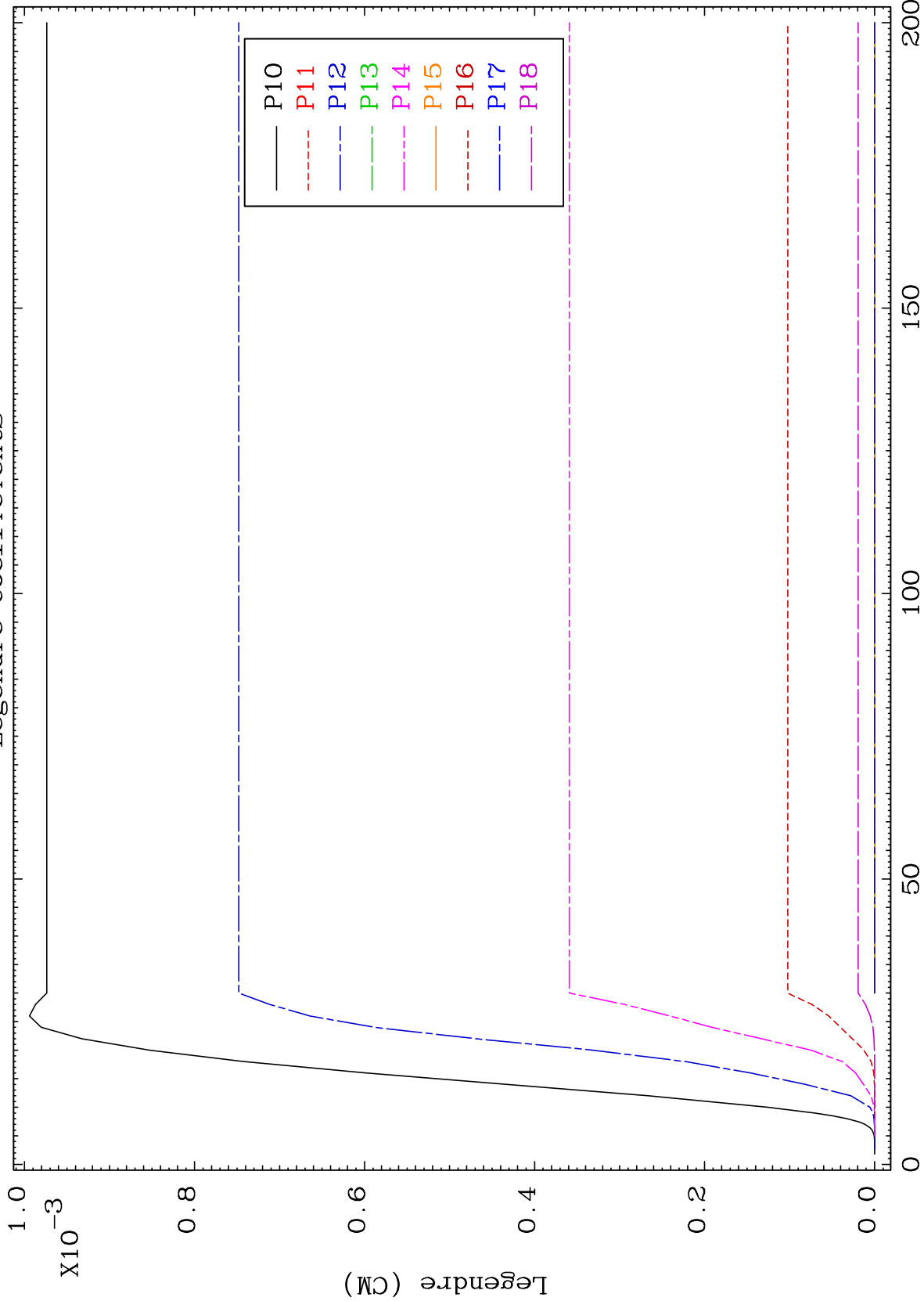
53-I -118



53-I -118

Incident Energy (MeV)

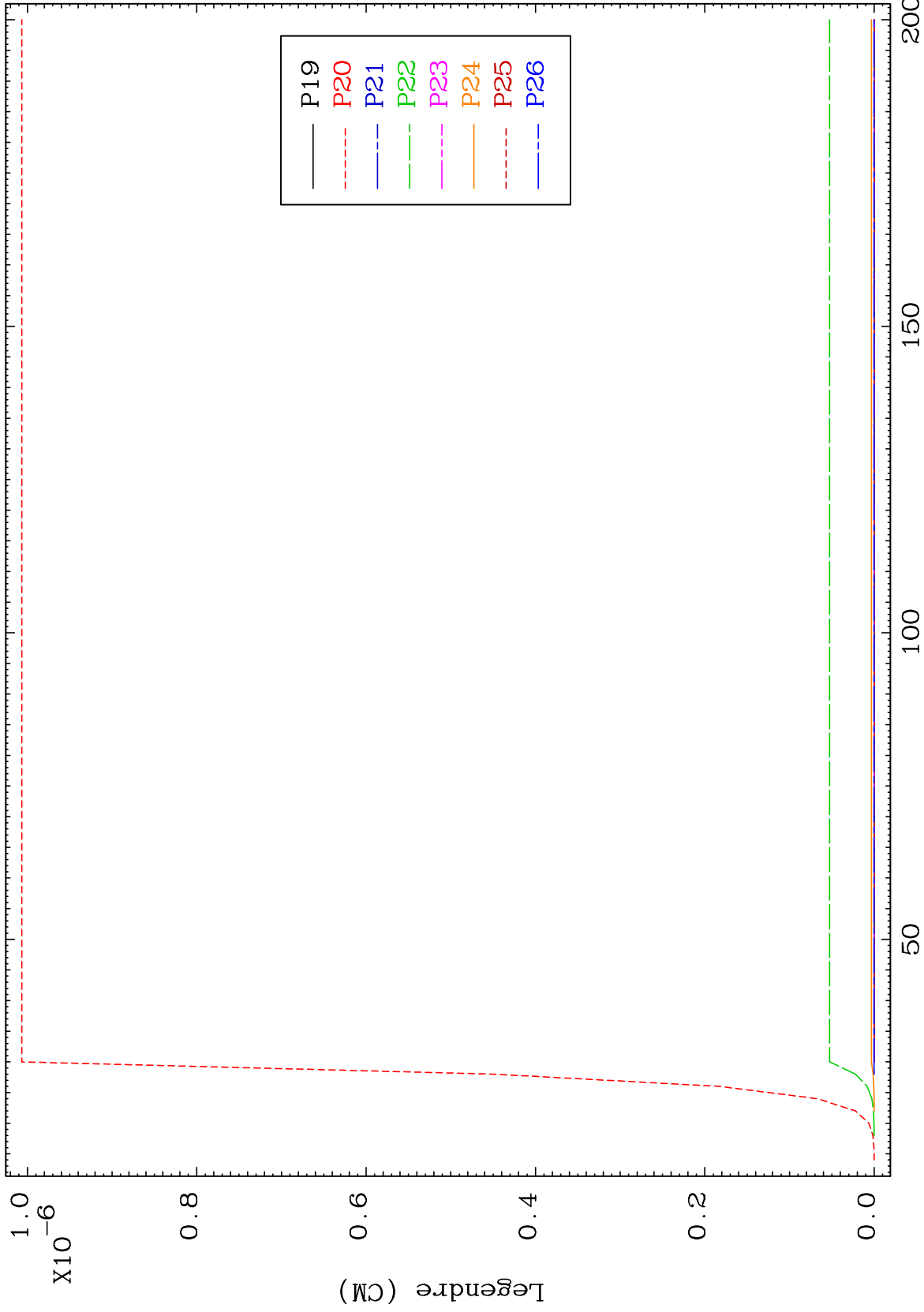
45



MAT 5298

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

53-I -118



47

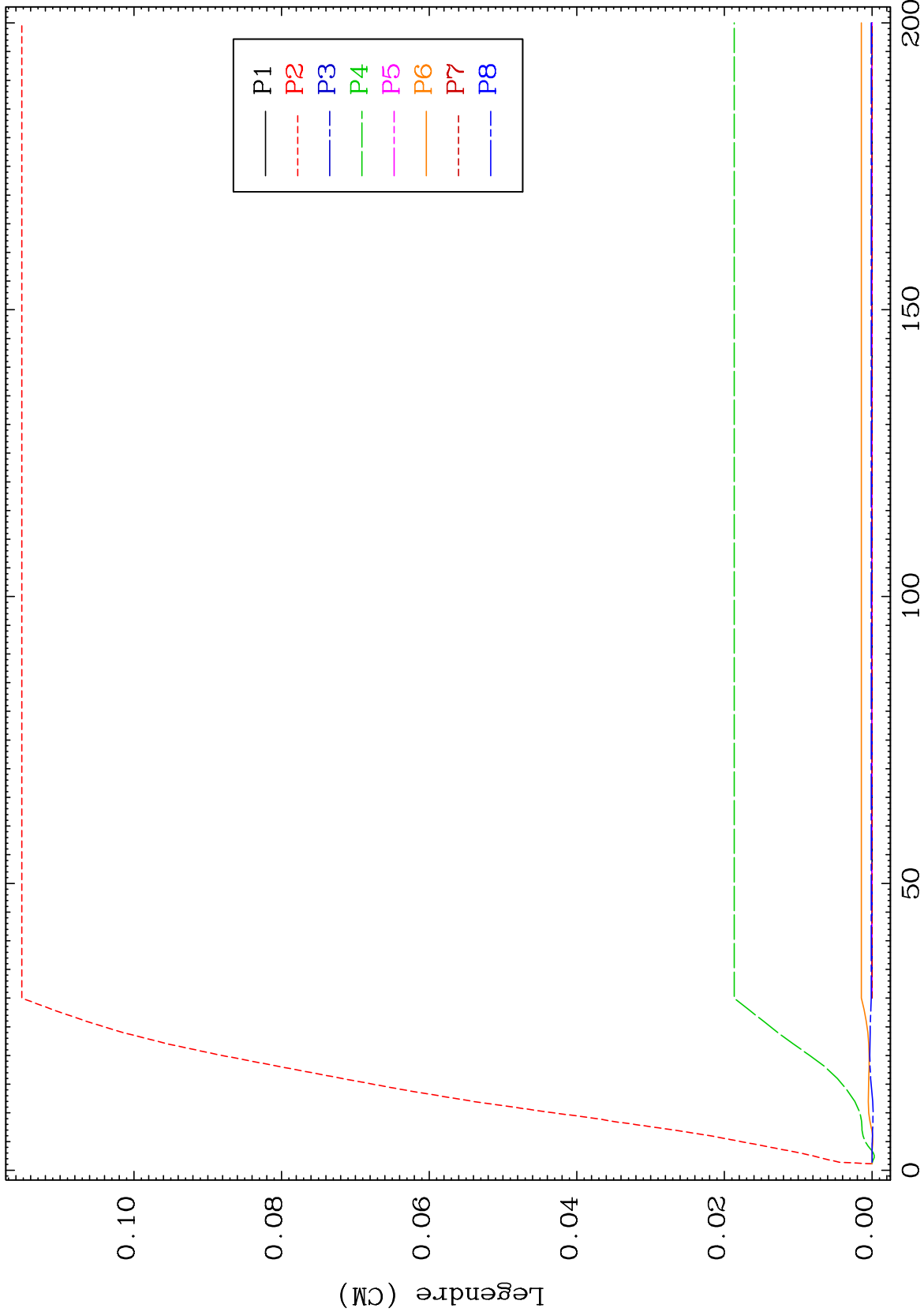
Incident Energy (MeV)

53-I -118

MAT 5298

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

53-I -118



53-I -118

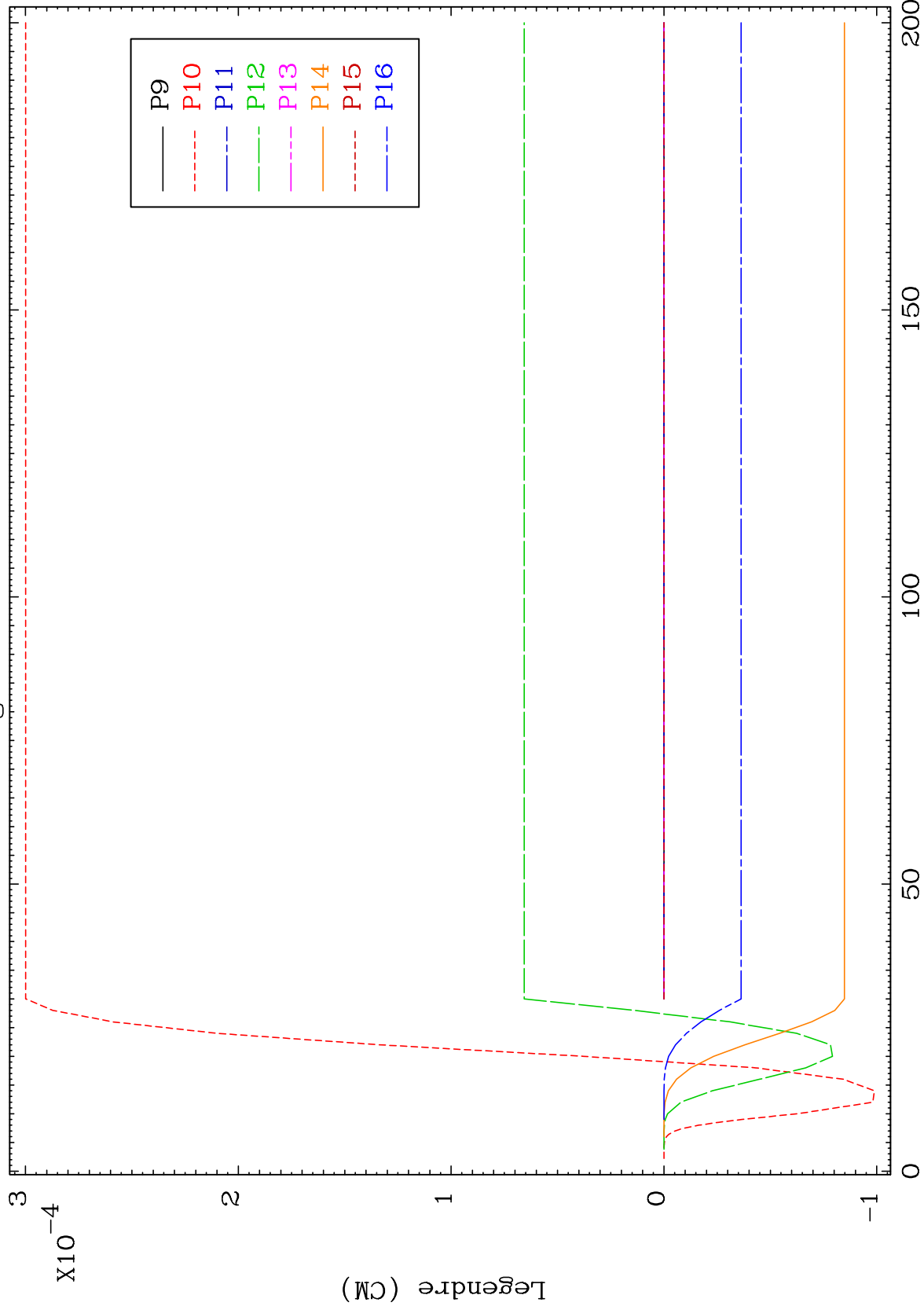
Incident Energy (MeV)

48

MAT 5298

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

53-I -118



49

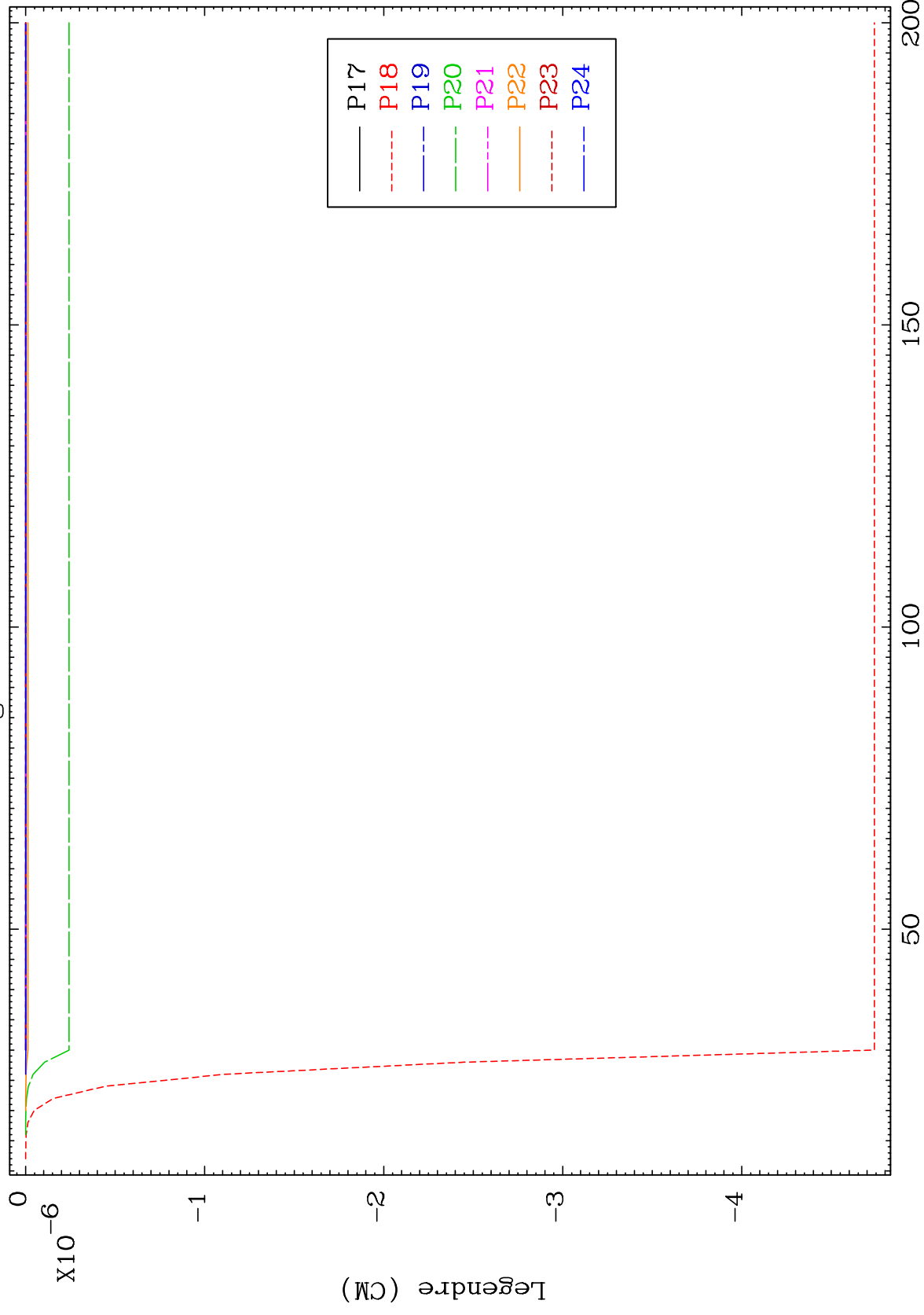
Incident Energy (MeV)

53-I -118

MAT 5298

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

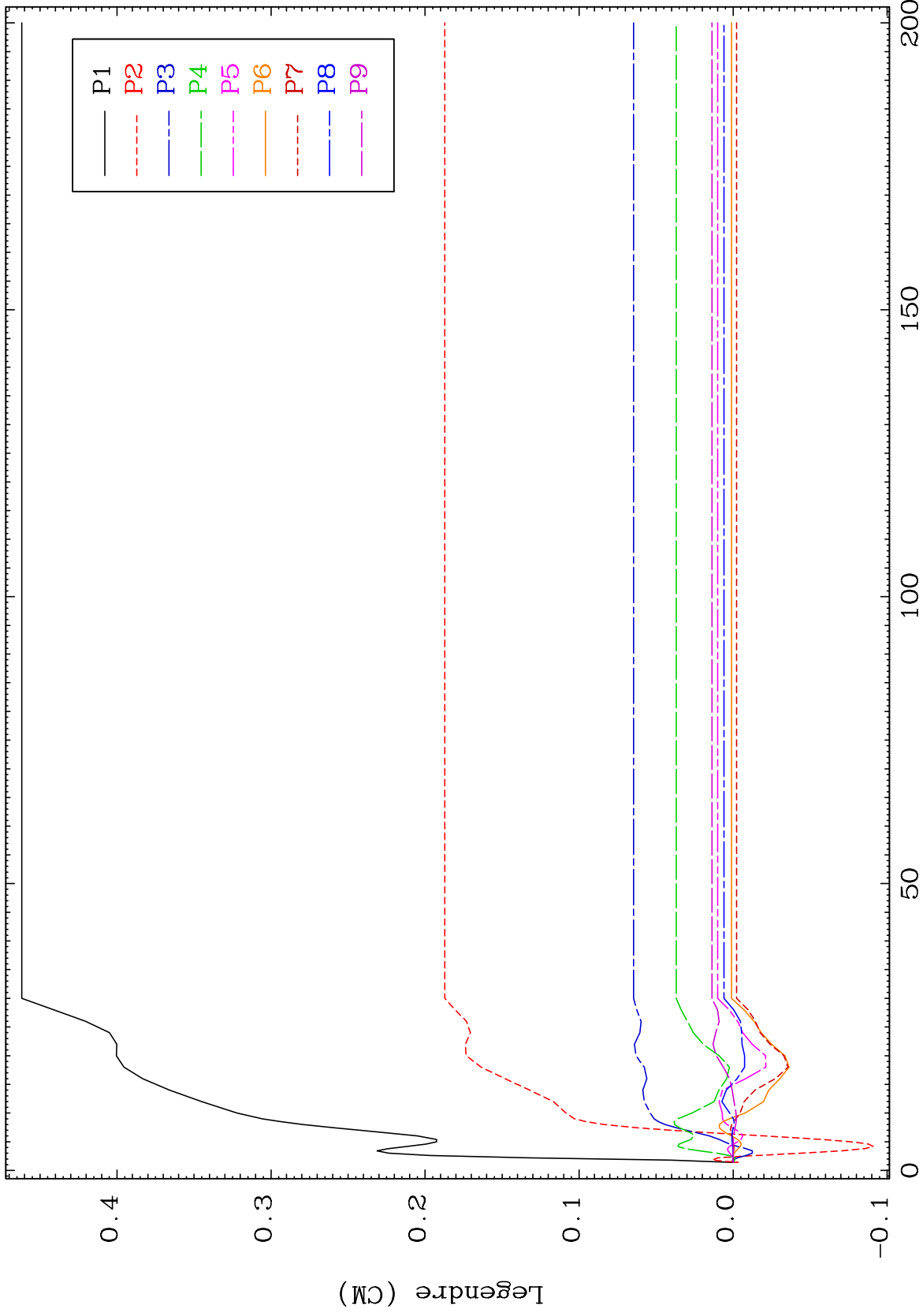
53-I -118

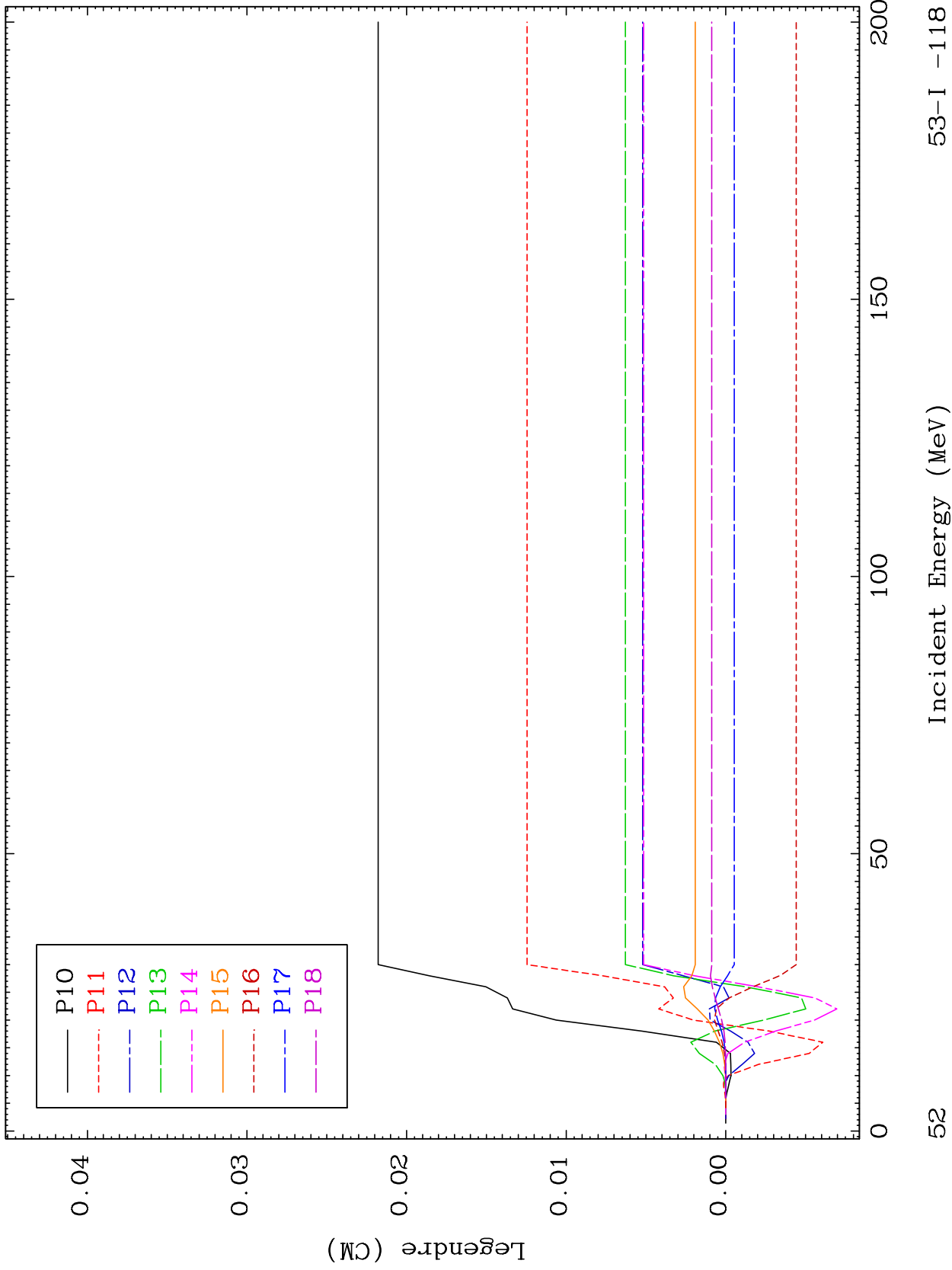


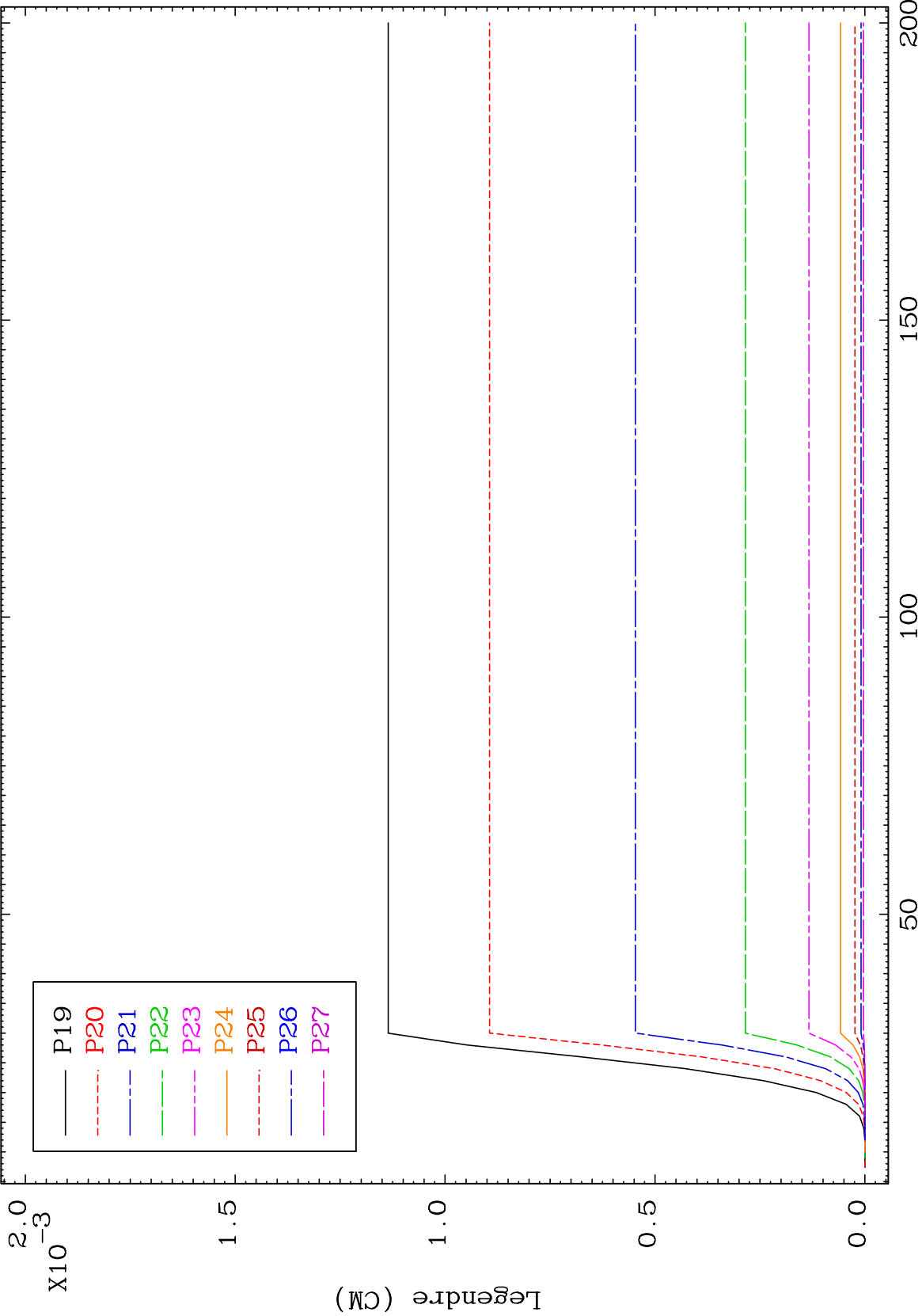
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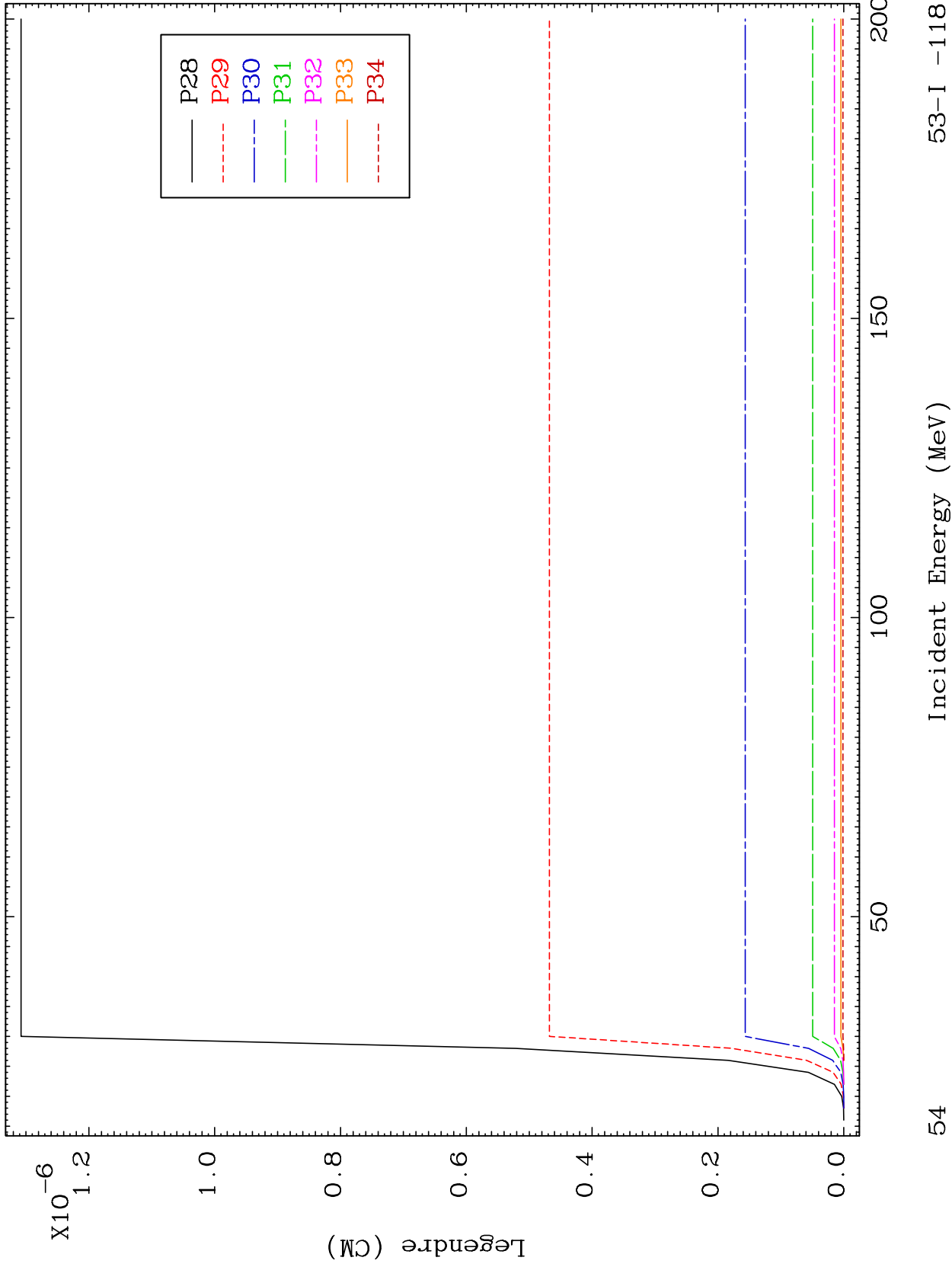
Incident Energy (MeV)

53-I -118





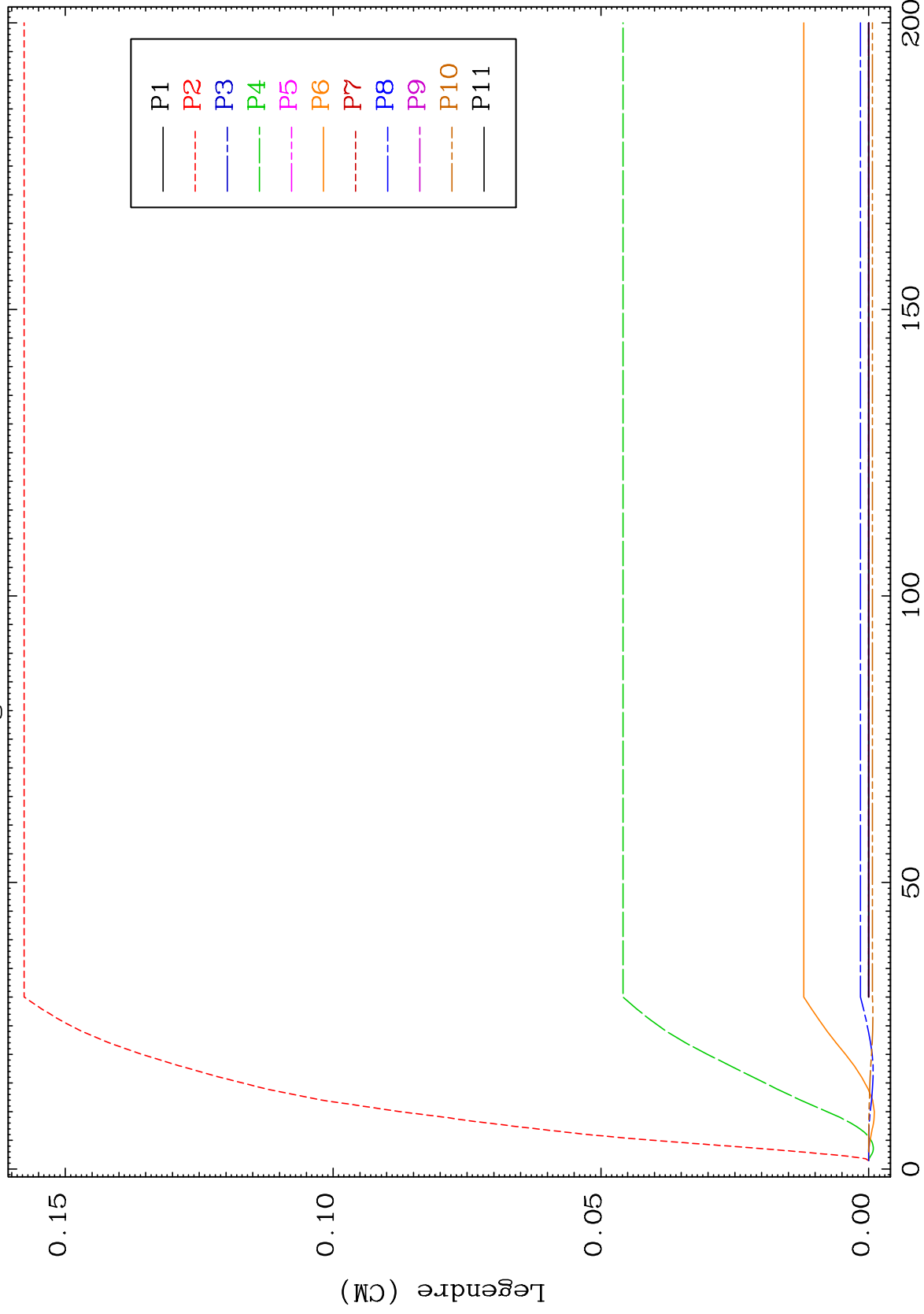




MAT 5298

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

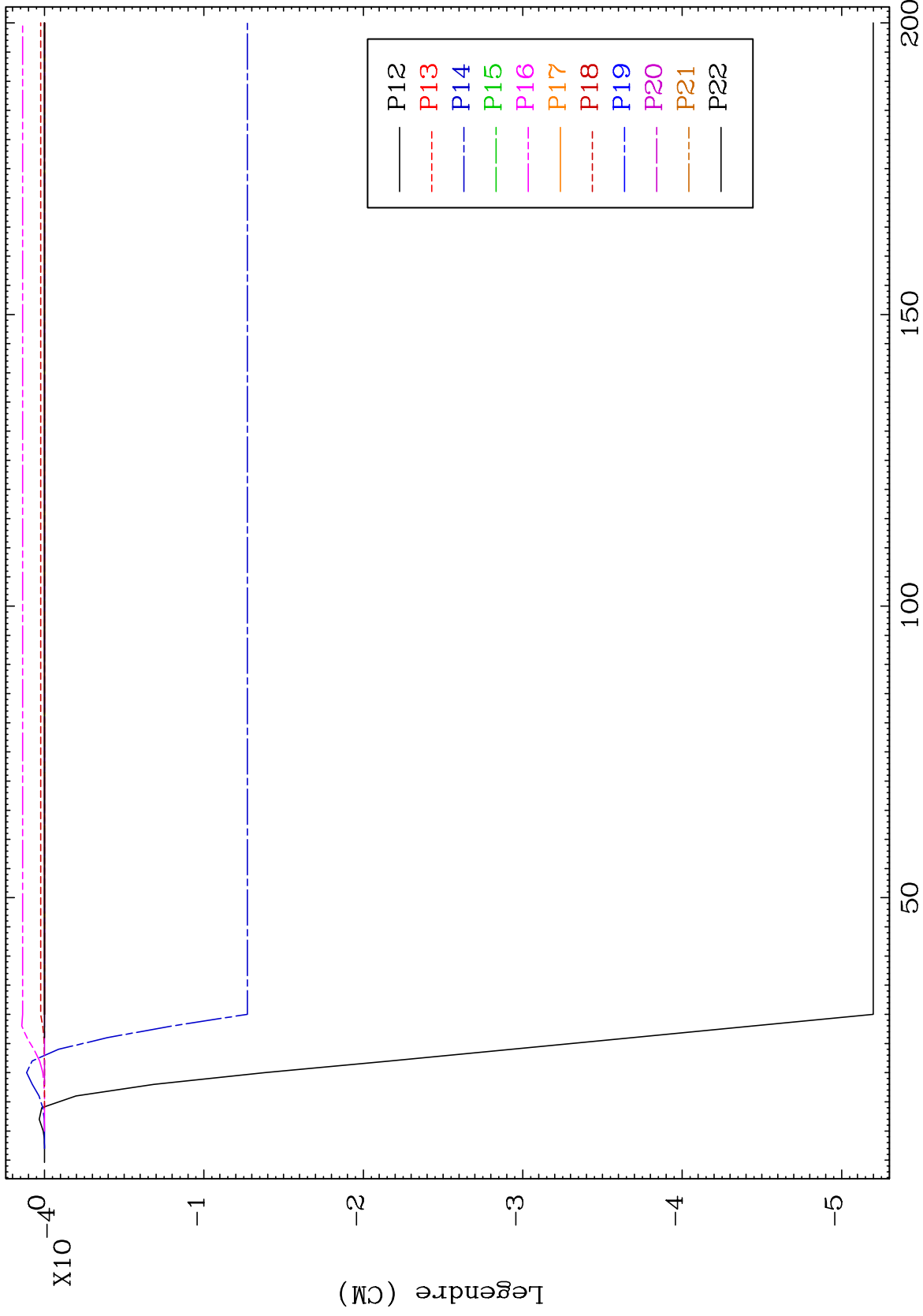
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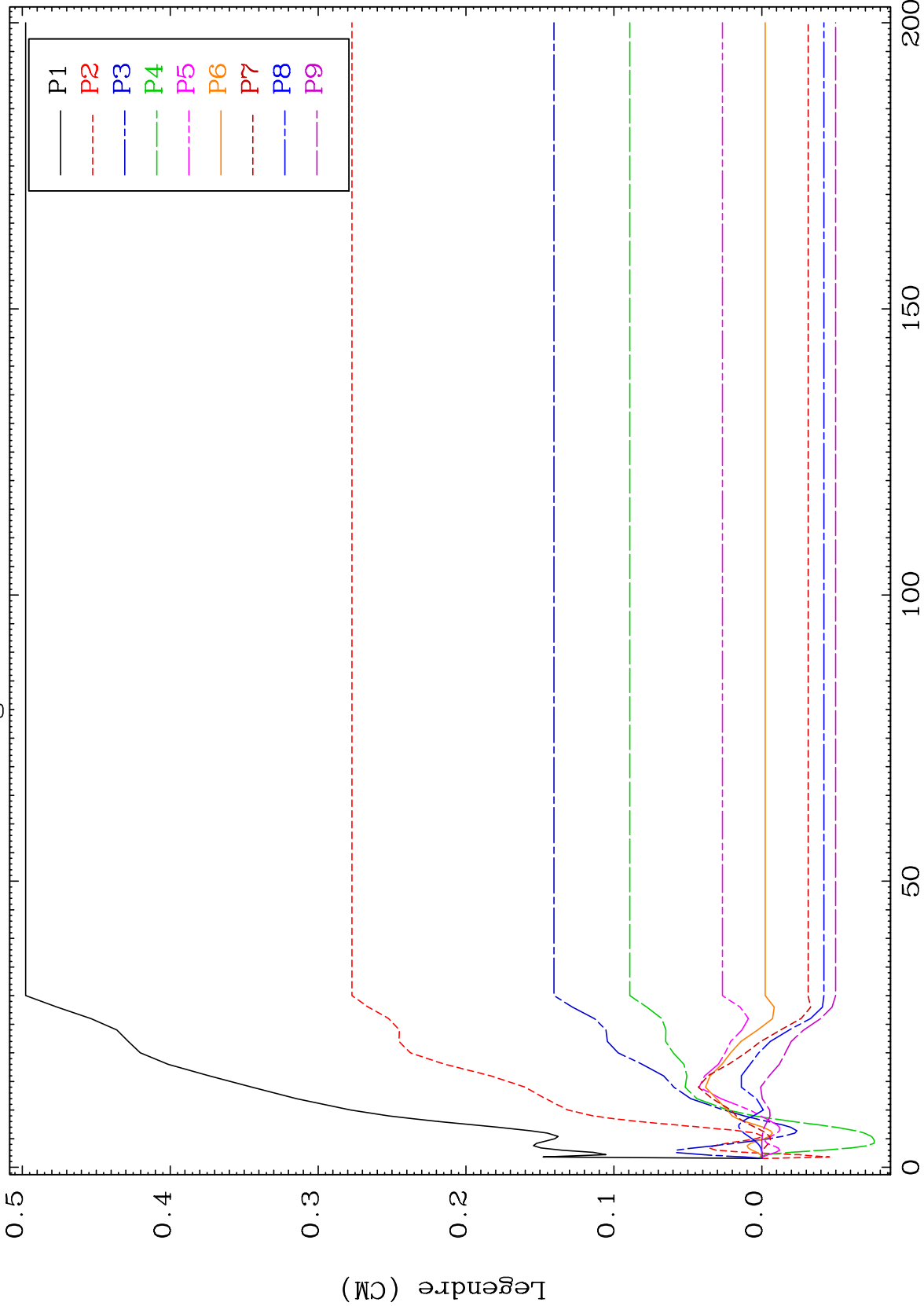


53-I -118

Incident Energy (MeV)

55

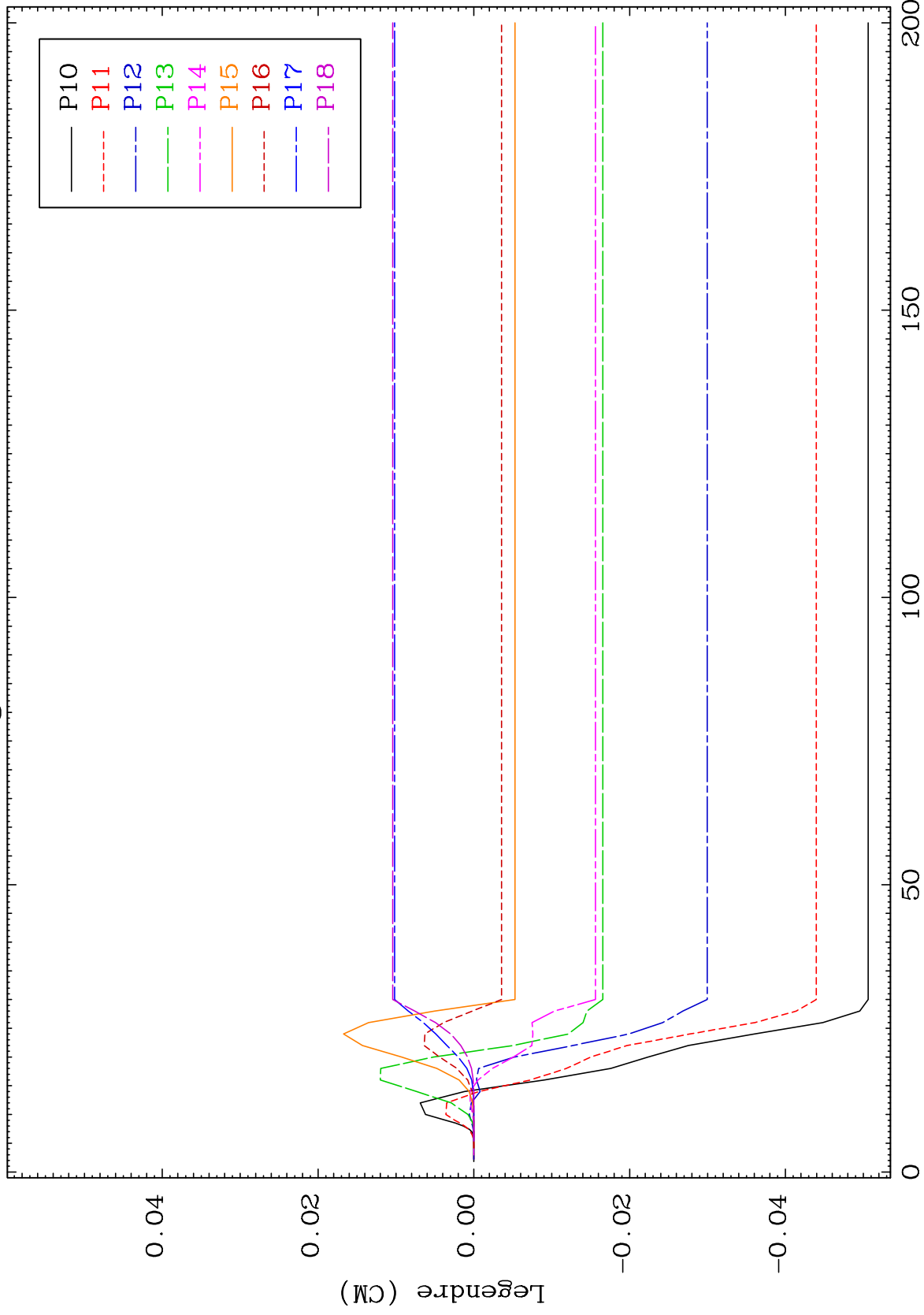




MAT 5298

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

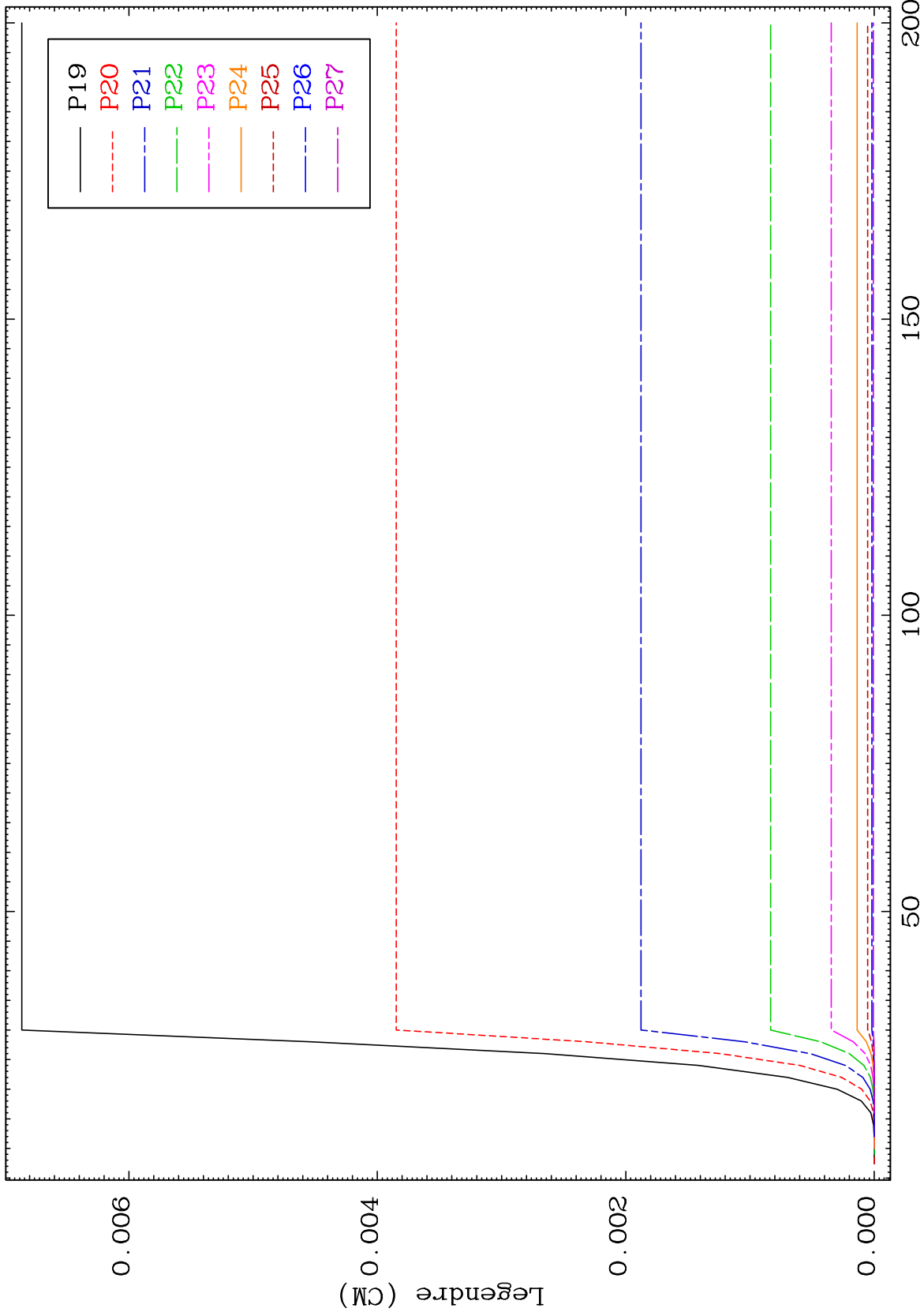
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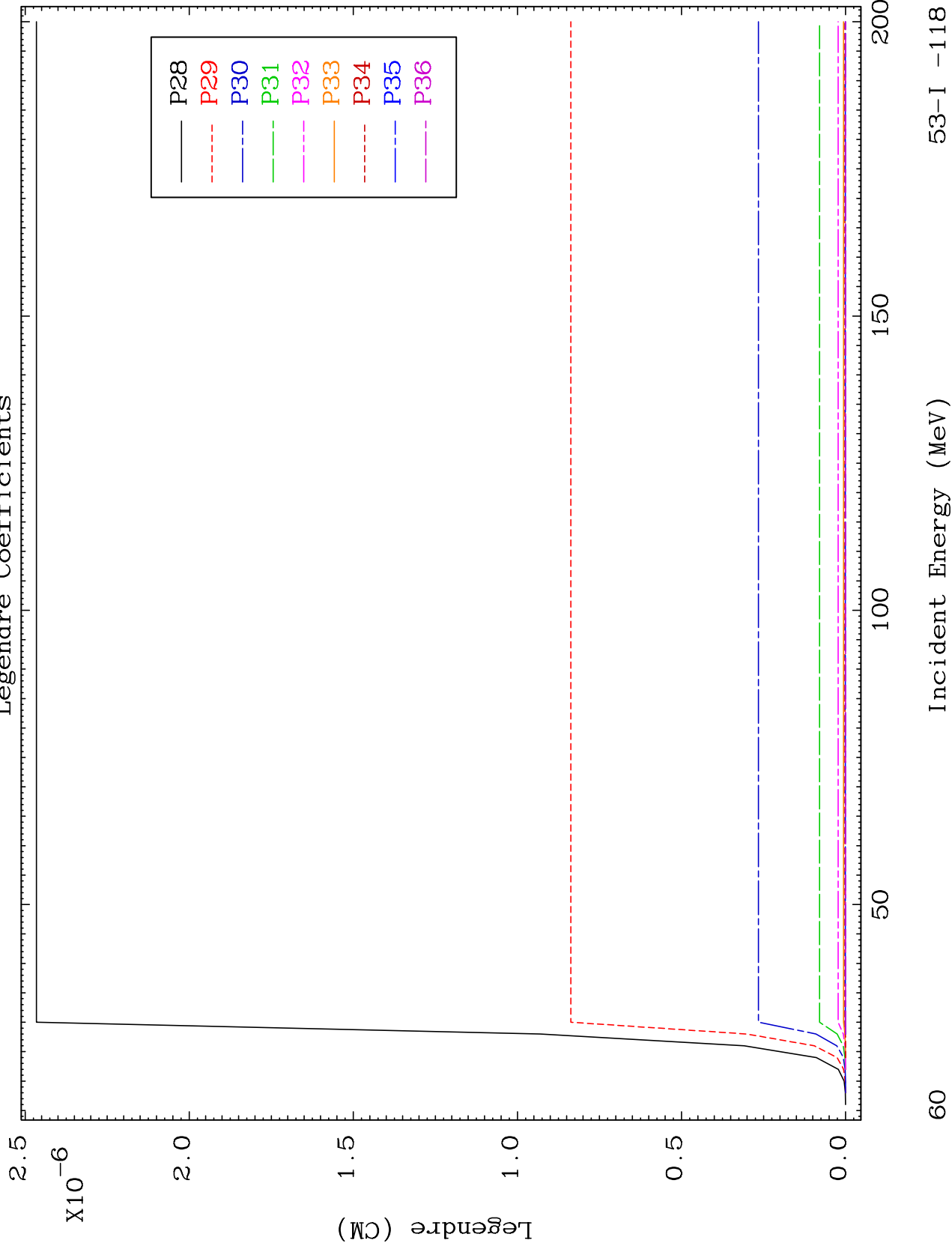


58

Incident Energy (MeV)

53-I -118

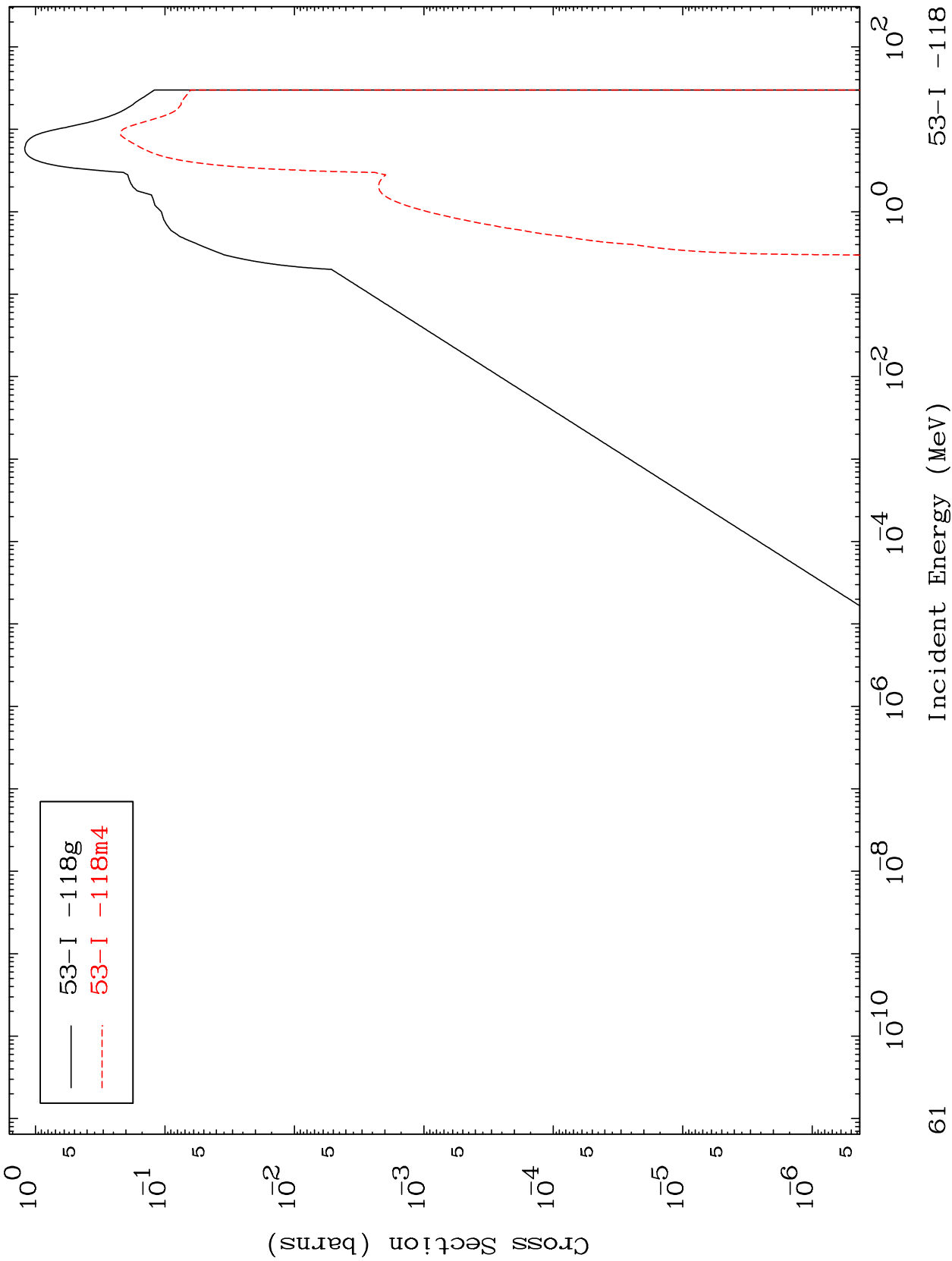




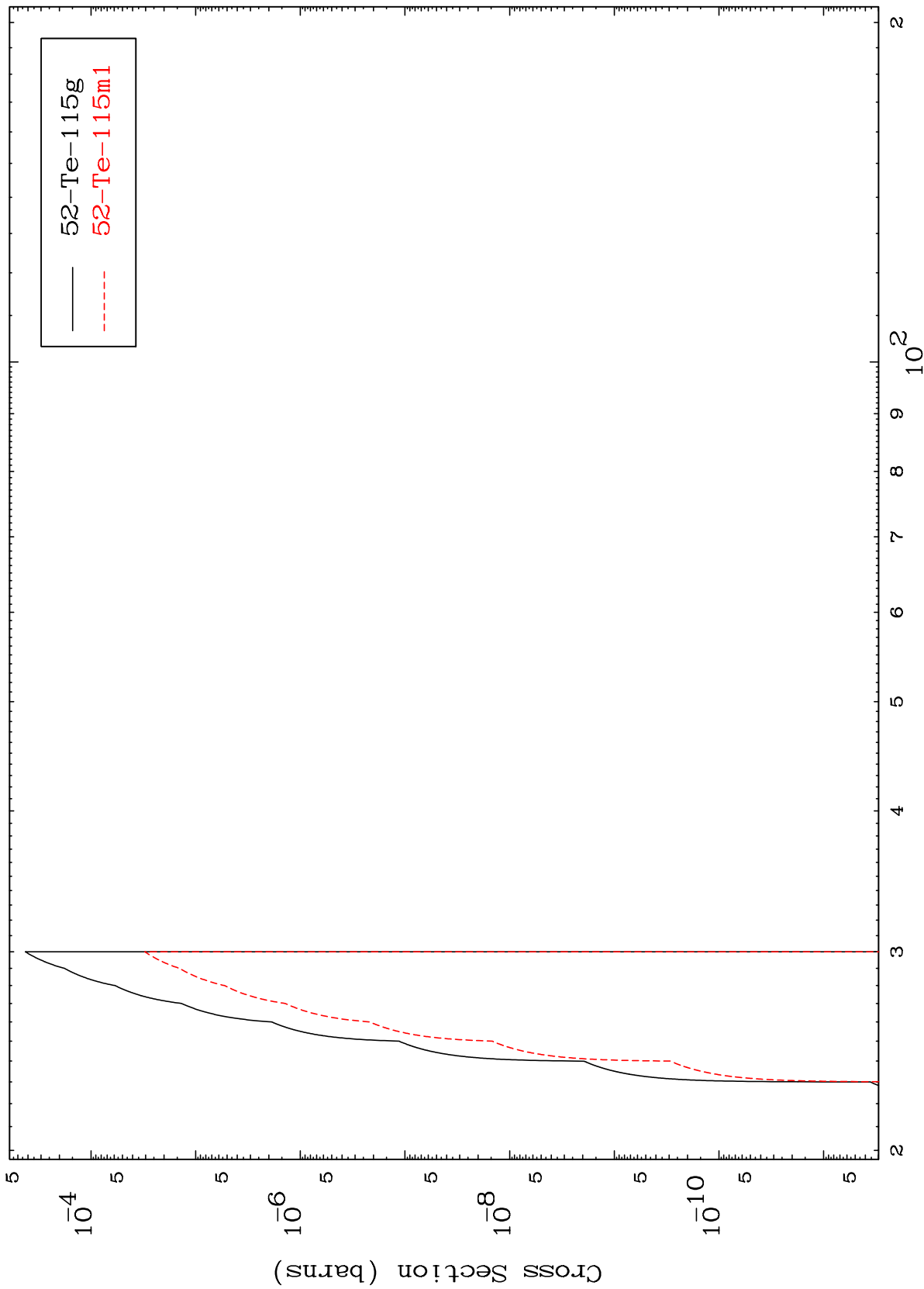
MAT 5298

53-I -118

Inelastic
Radionuclide Production Cross Section

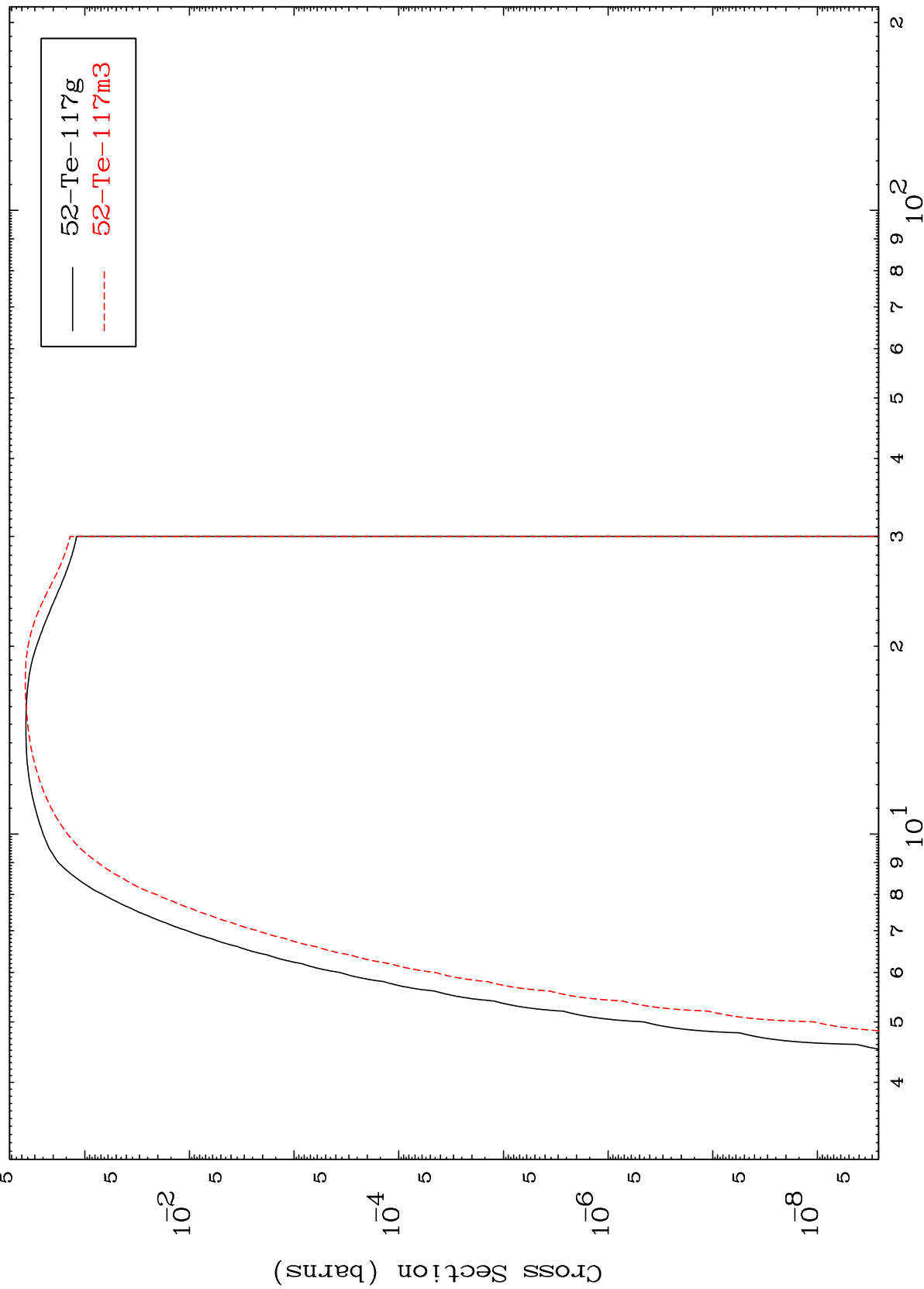


Radionuclide Production Cross Section



52-Te-115g
52-Te-115m1

(n,n') p
Radionuclide Production Cross Section

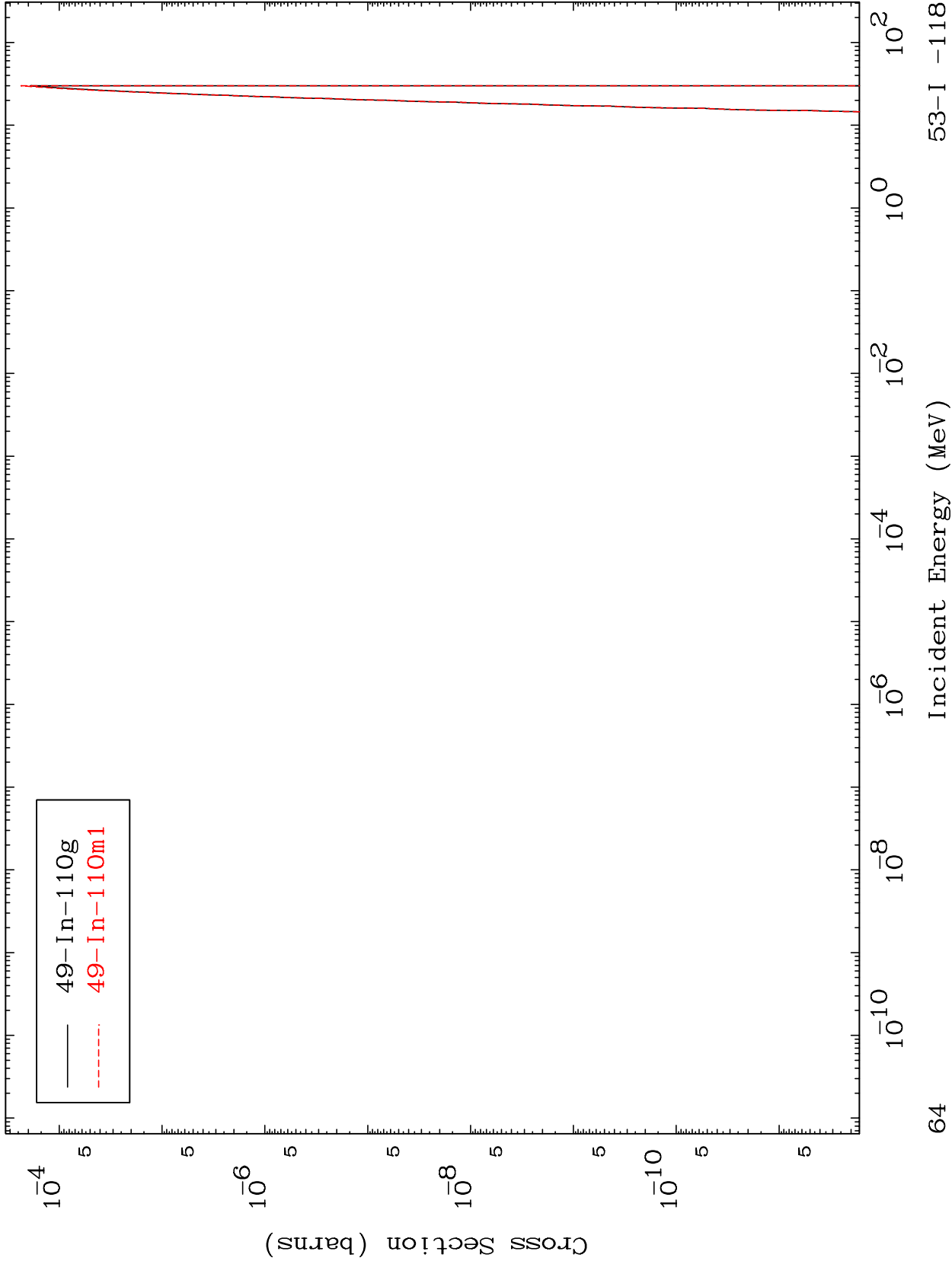


MAT 5298

(n,n') 2α

53-I -118

Radionuclide Production Cross Section



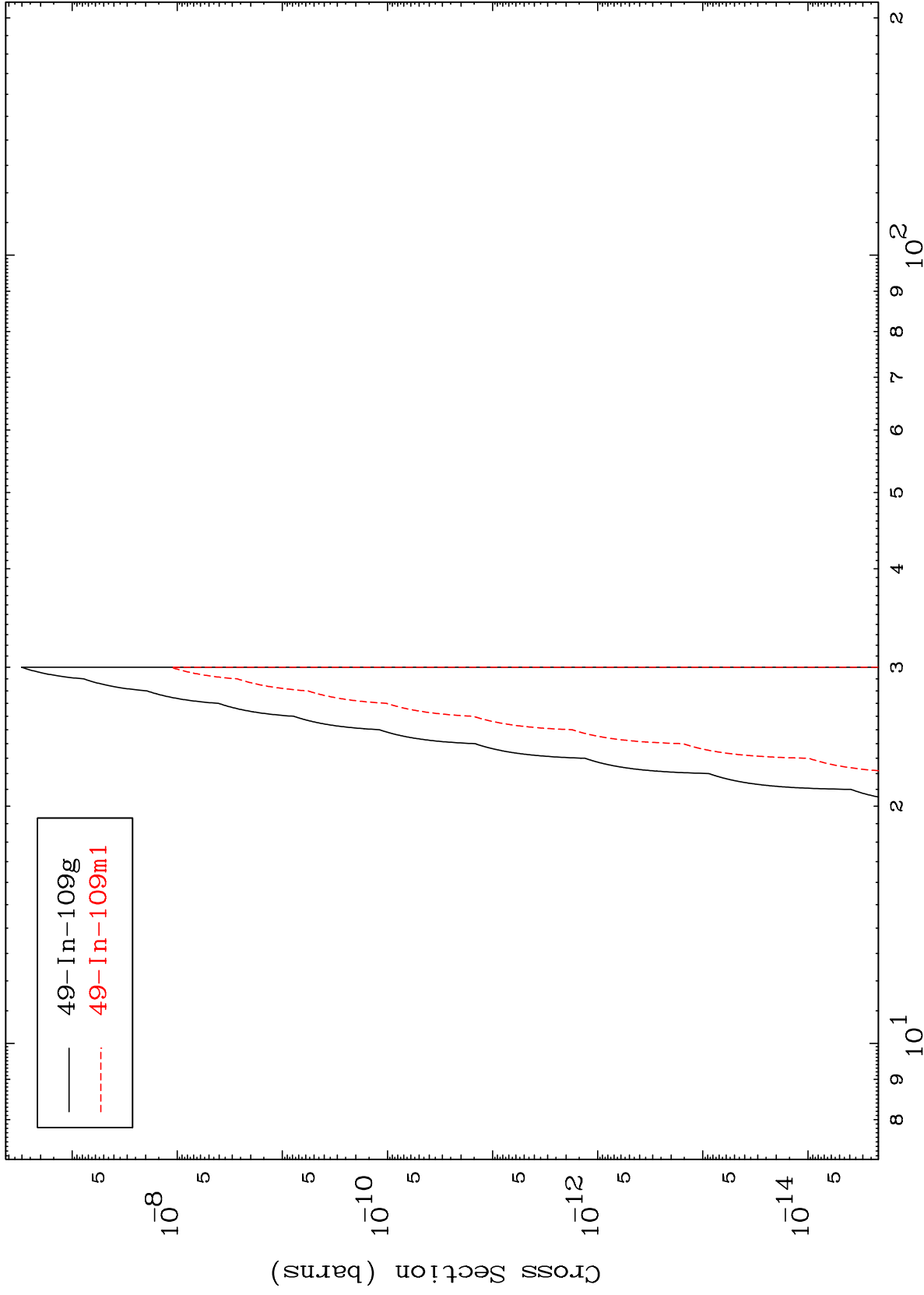
— 49-In-110g
- - - 49-In-110m1

64

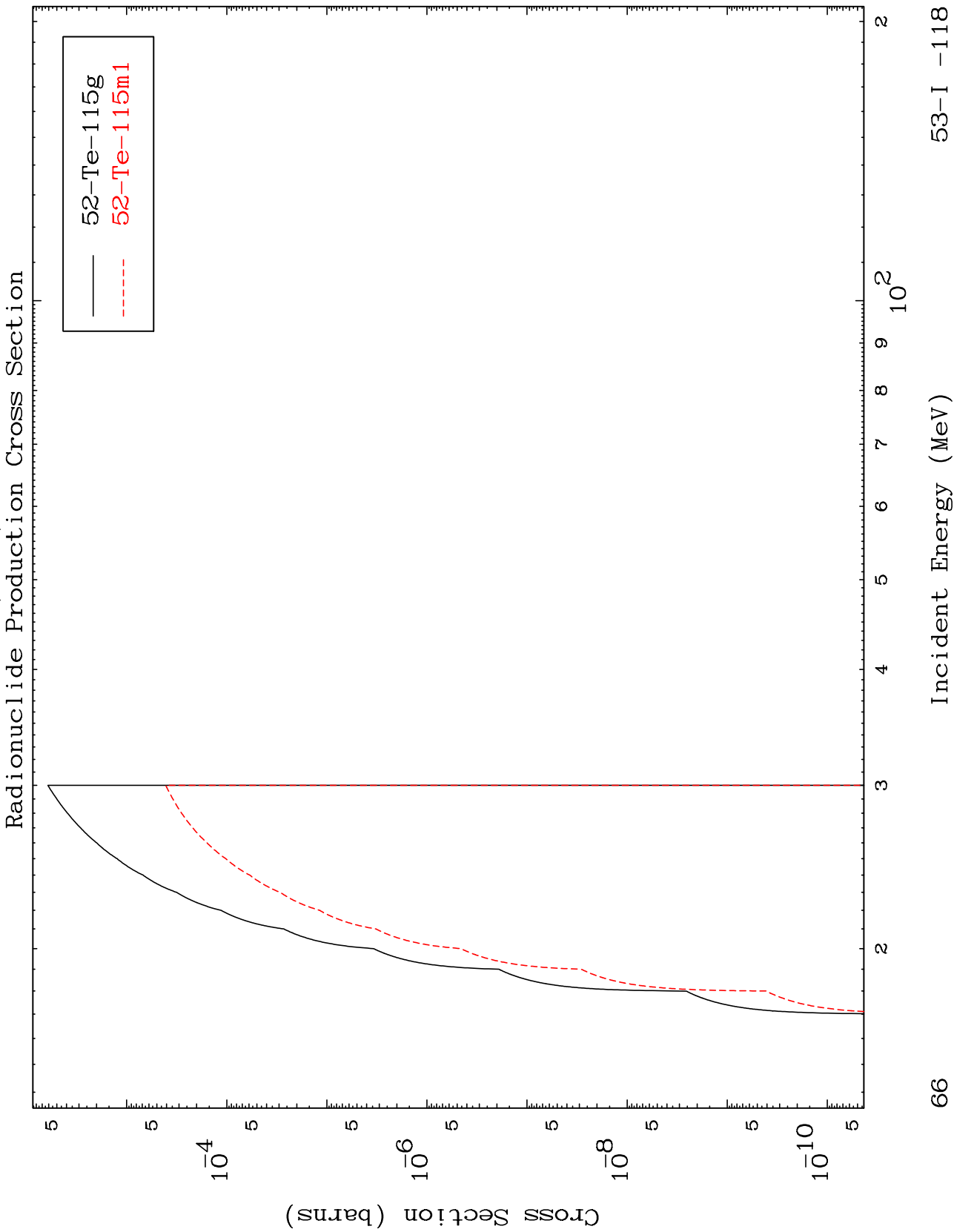
Incident Energy (MeV)

53-I -118

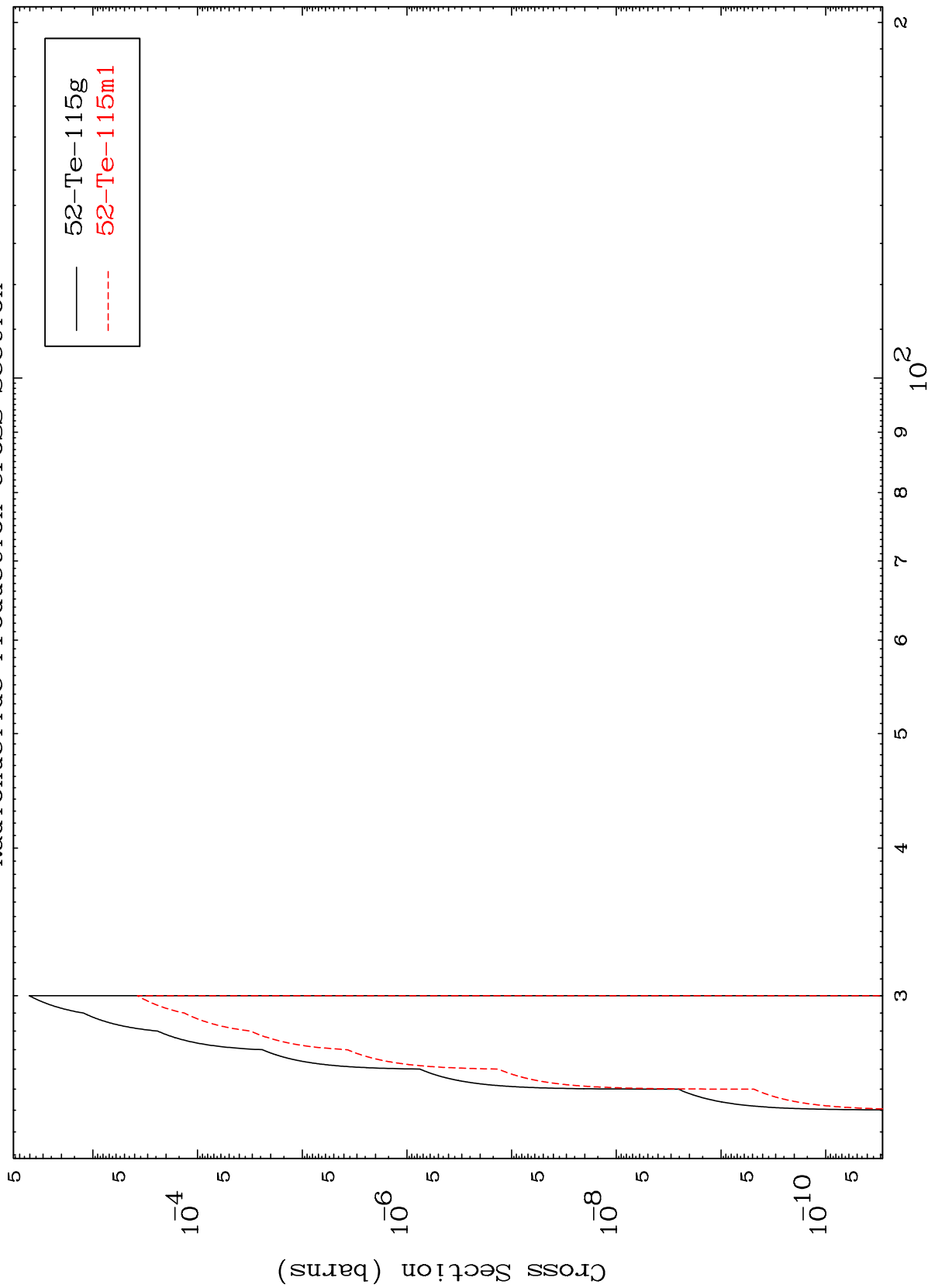
Radionuclide Production Cross Section



— 49-In-109g
- - - 49-In-109m1



Radionuclide Production Cross Section

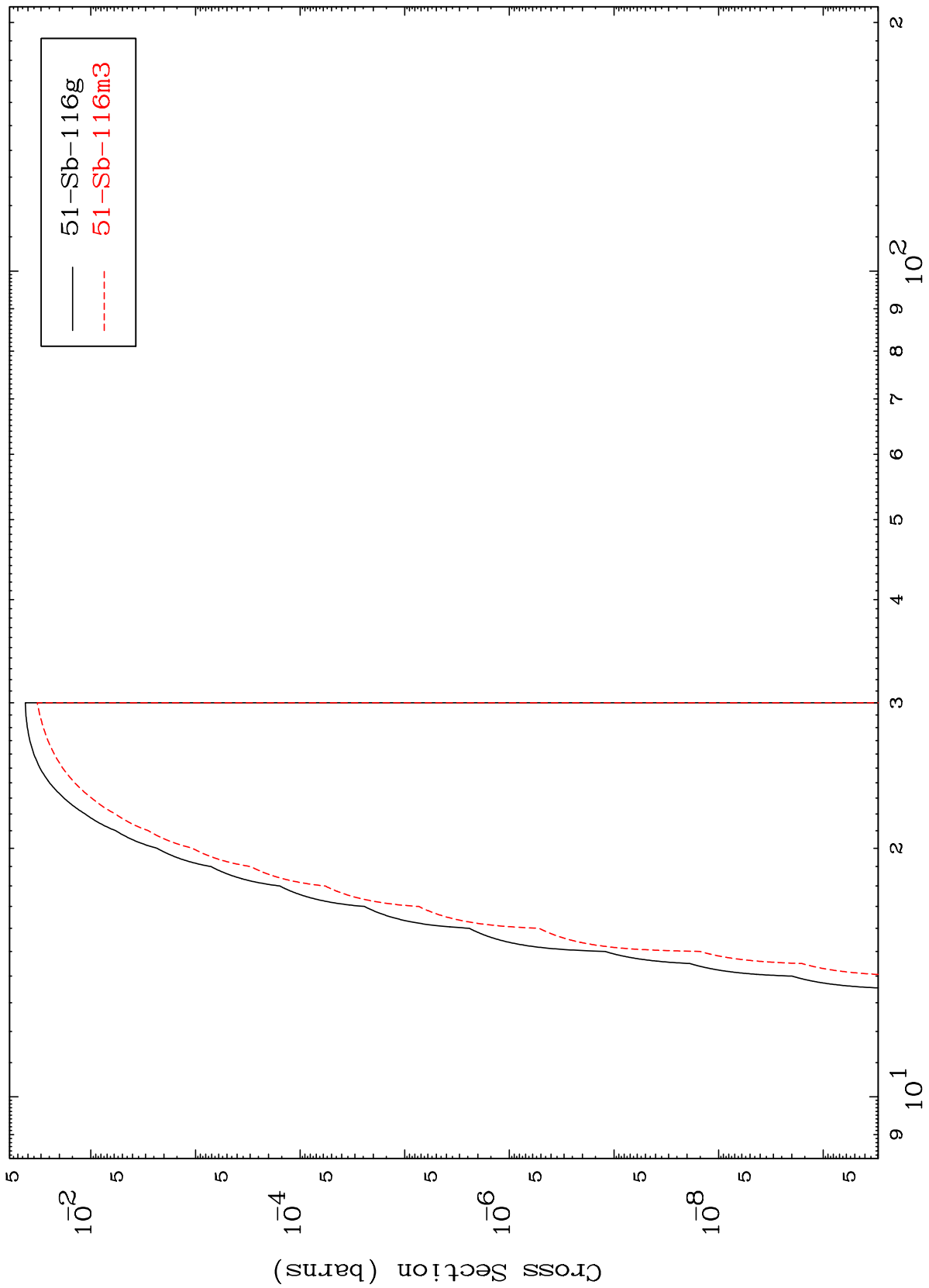


MAT 5298

(n,2n) p

53-I -118

Radionuclide Production Cross Section

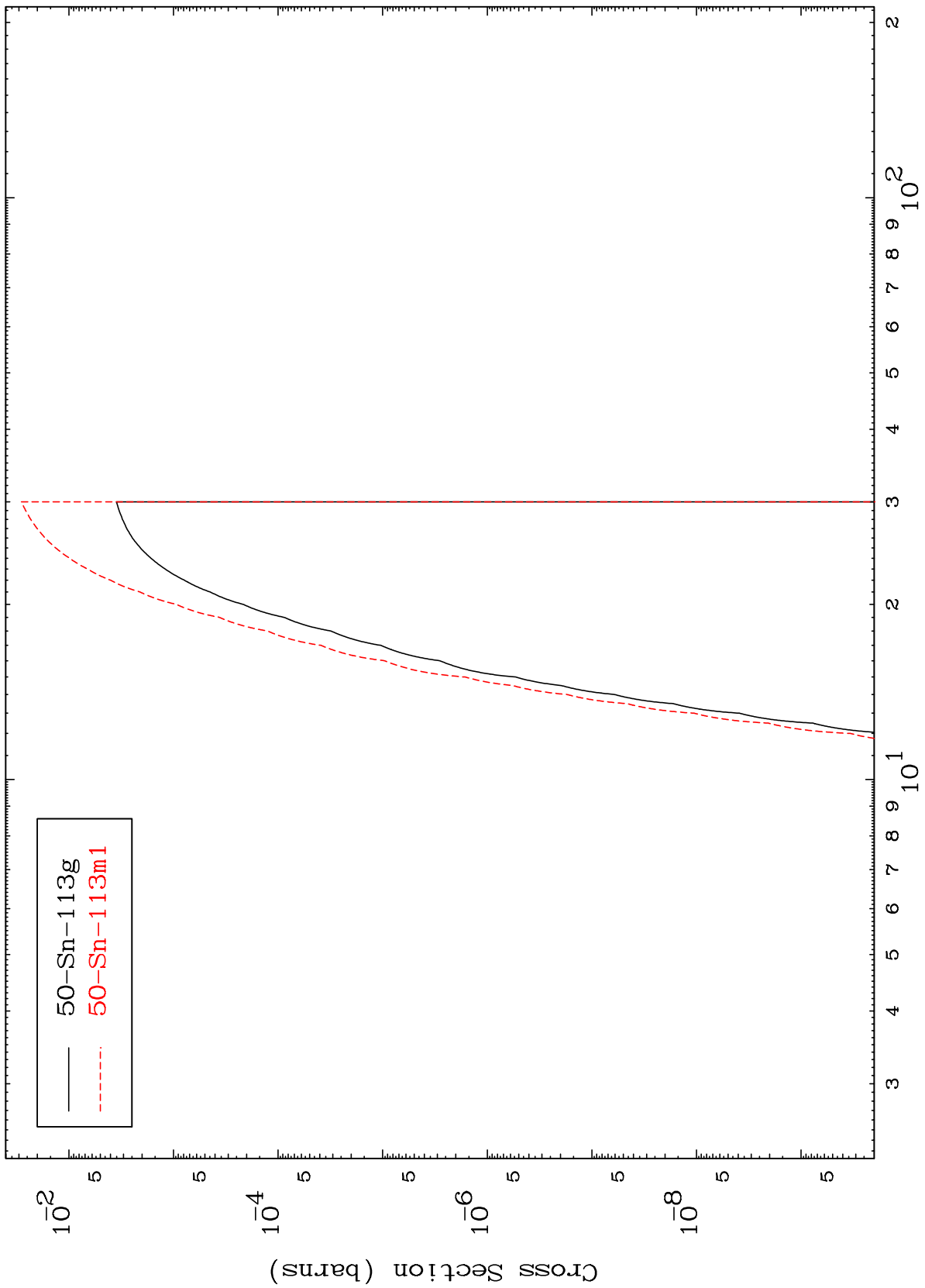


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Incident Energy (MeV)

53-I -118

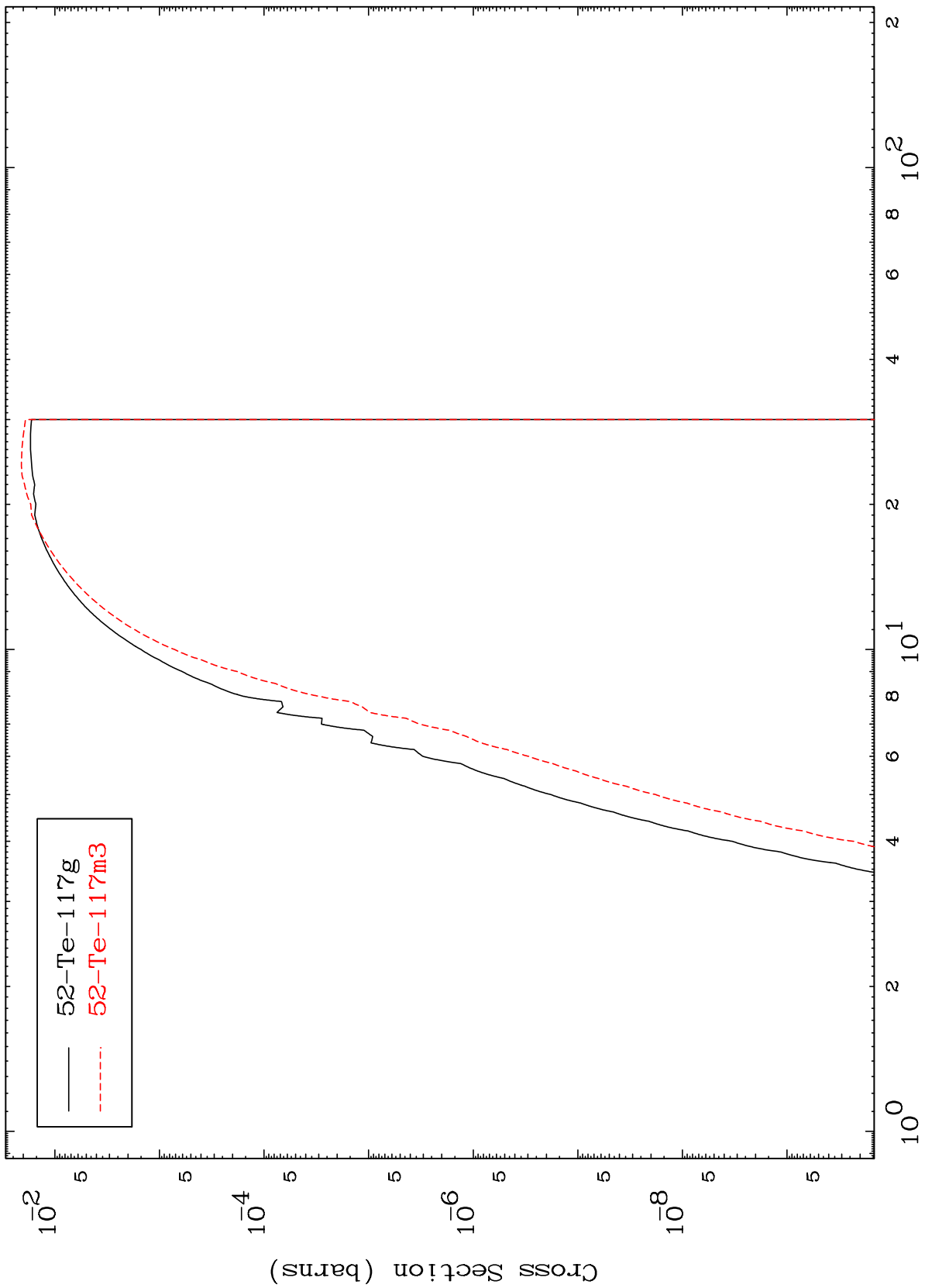
Radionuclide Production Cross Section



MAT 5298

53-I -118

(n,d)
Radionuclide Production Cross Section



53-I -118

Incident Energy (MeV)

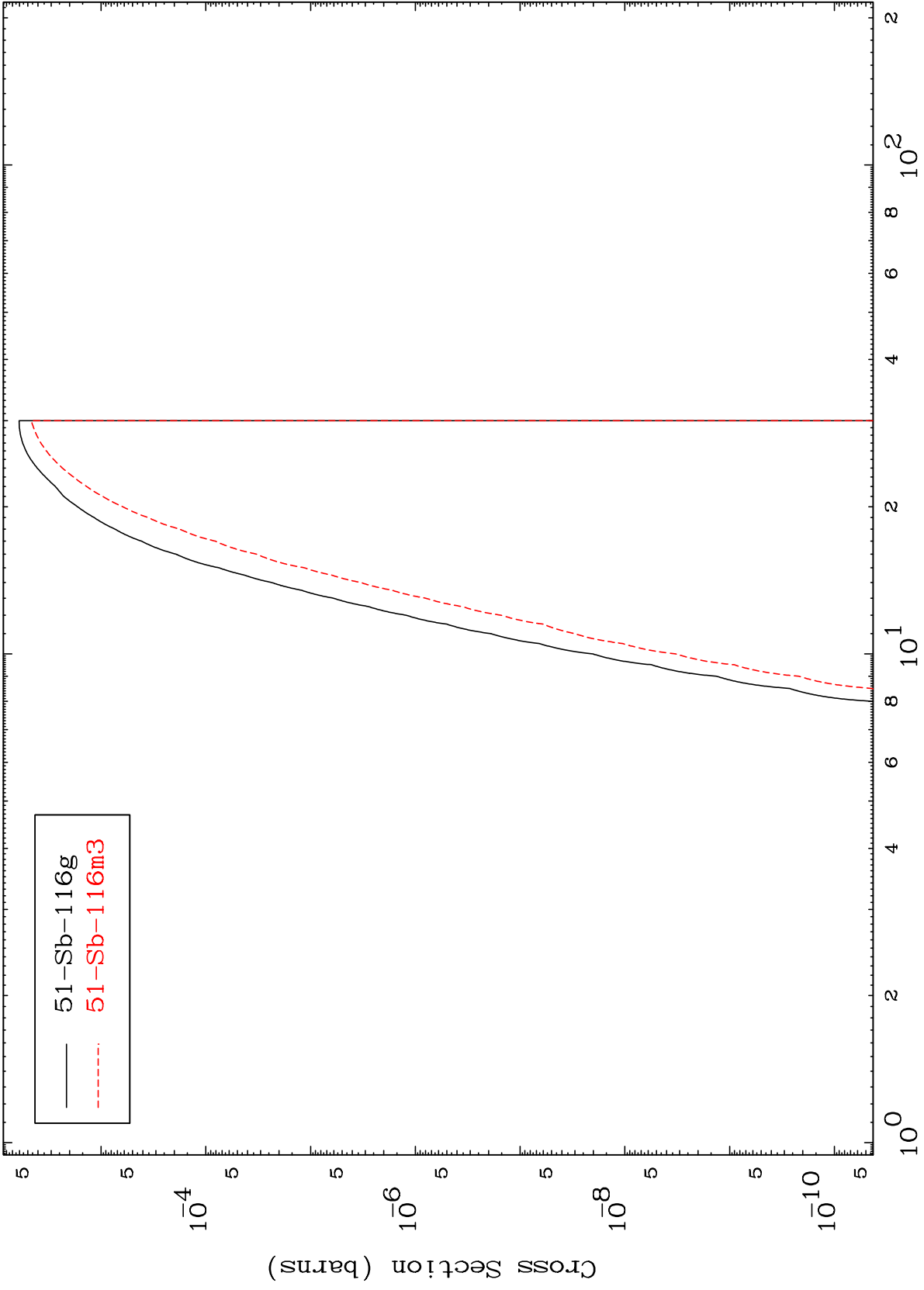
70

MAT 5298

(n,He-3)

53-I -118

Radionuclide Production Cross Section



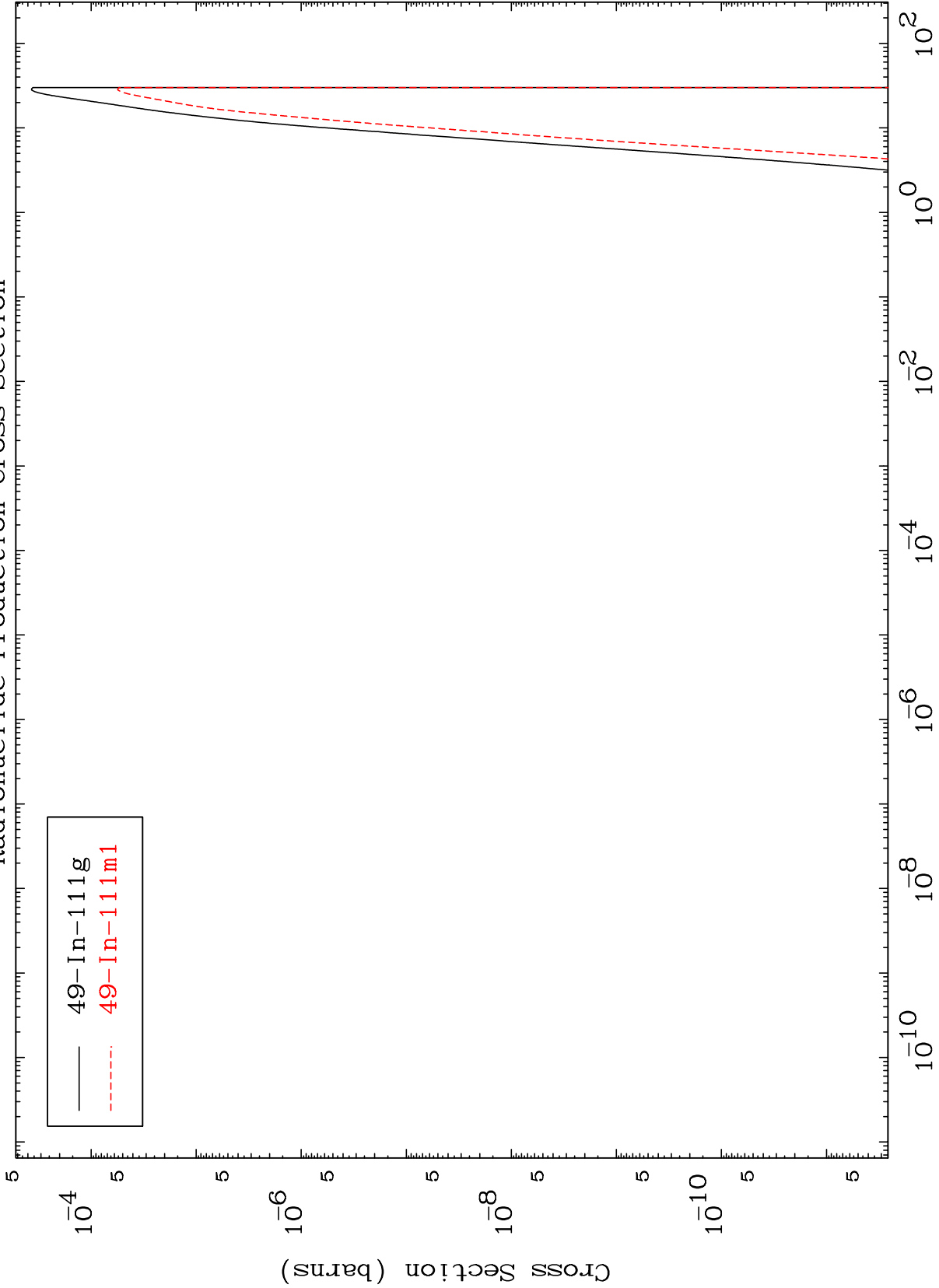
— 51-Sb-116g
- - - 51-Sb-116m3

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Incident Energy (MeV)

53-I -118

Radionuclide Production Cross Section

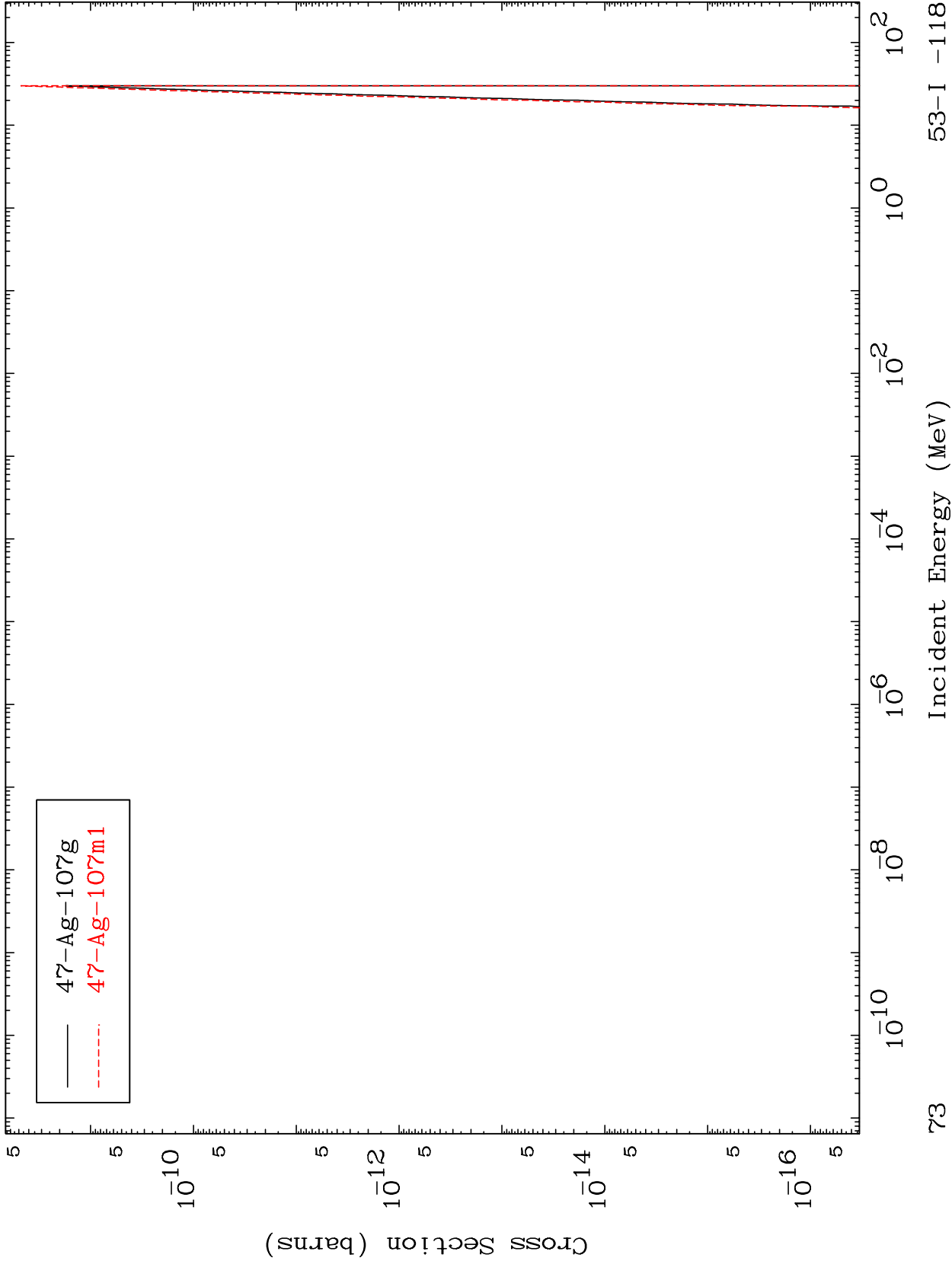


MAT 5298

(n,3 α)

53-I -118

Radionuclide Production Cross Section

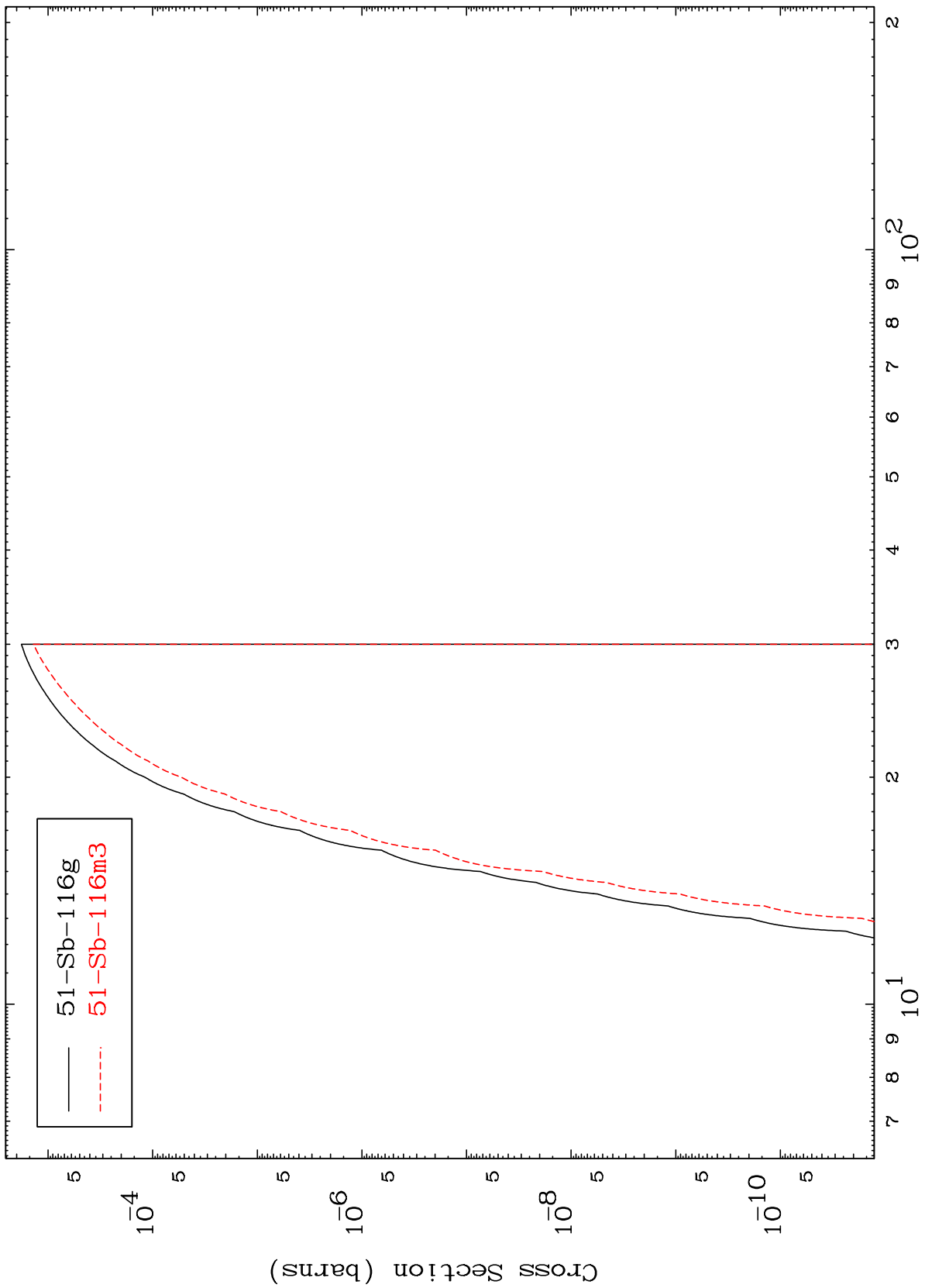


73

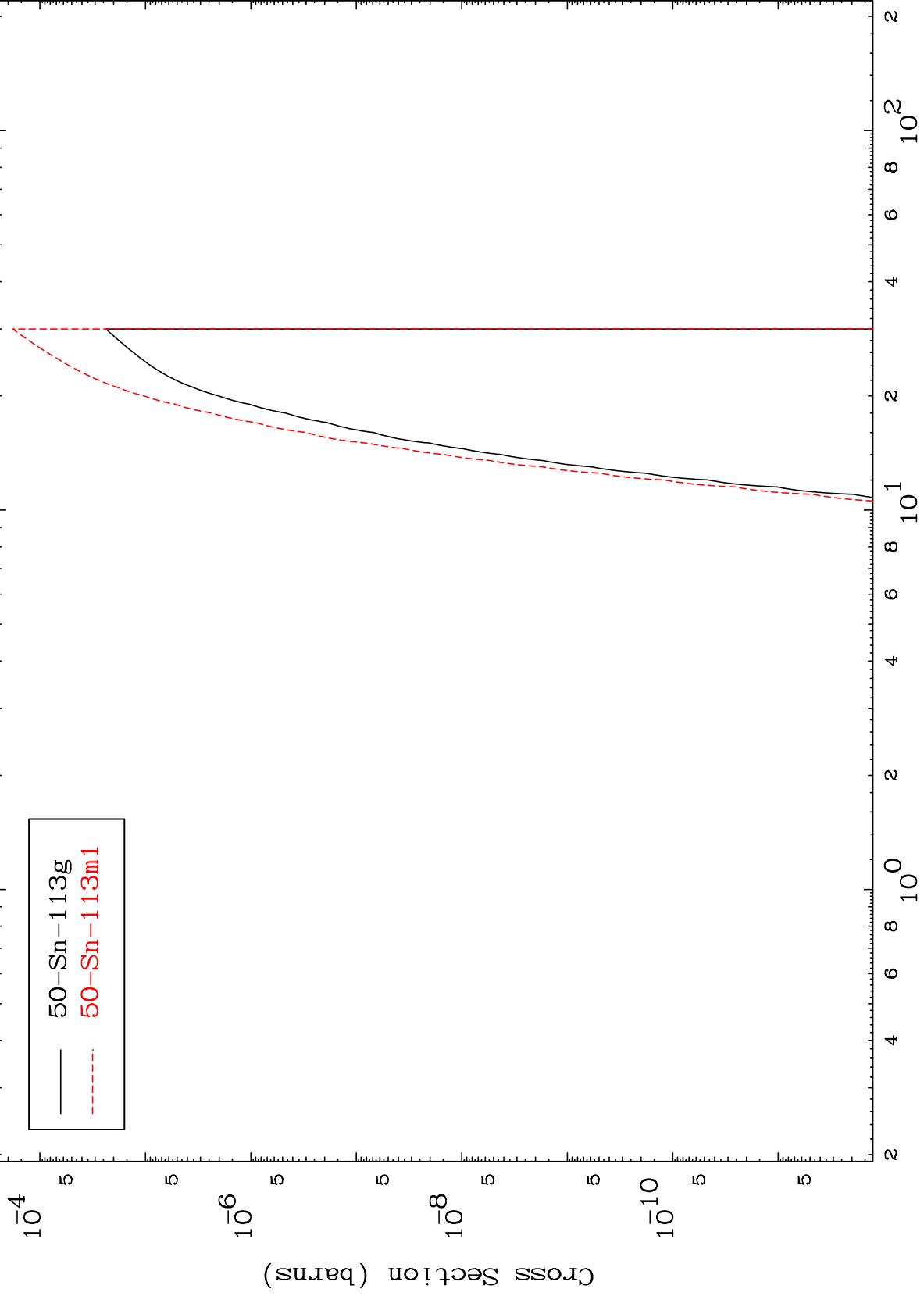
Incident Energy (MeV)

53-I -118

Radionuclide Production Cross Section



Radionuclide Production Cross Section



50-Sn-113g
50-Sn-113m1