

Program EVALPLOT
(Version 2017-1)

by

Dermott E. Cullen
(Present Contact Information)

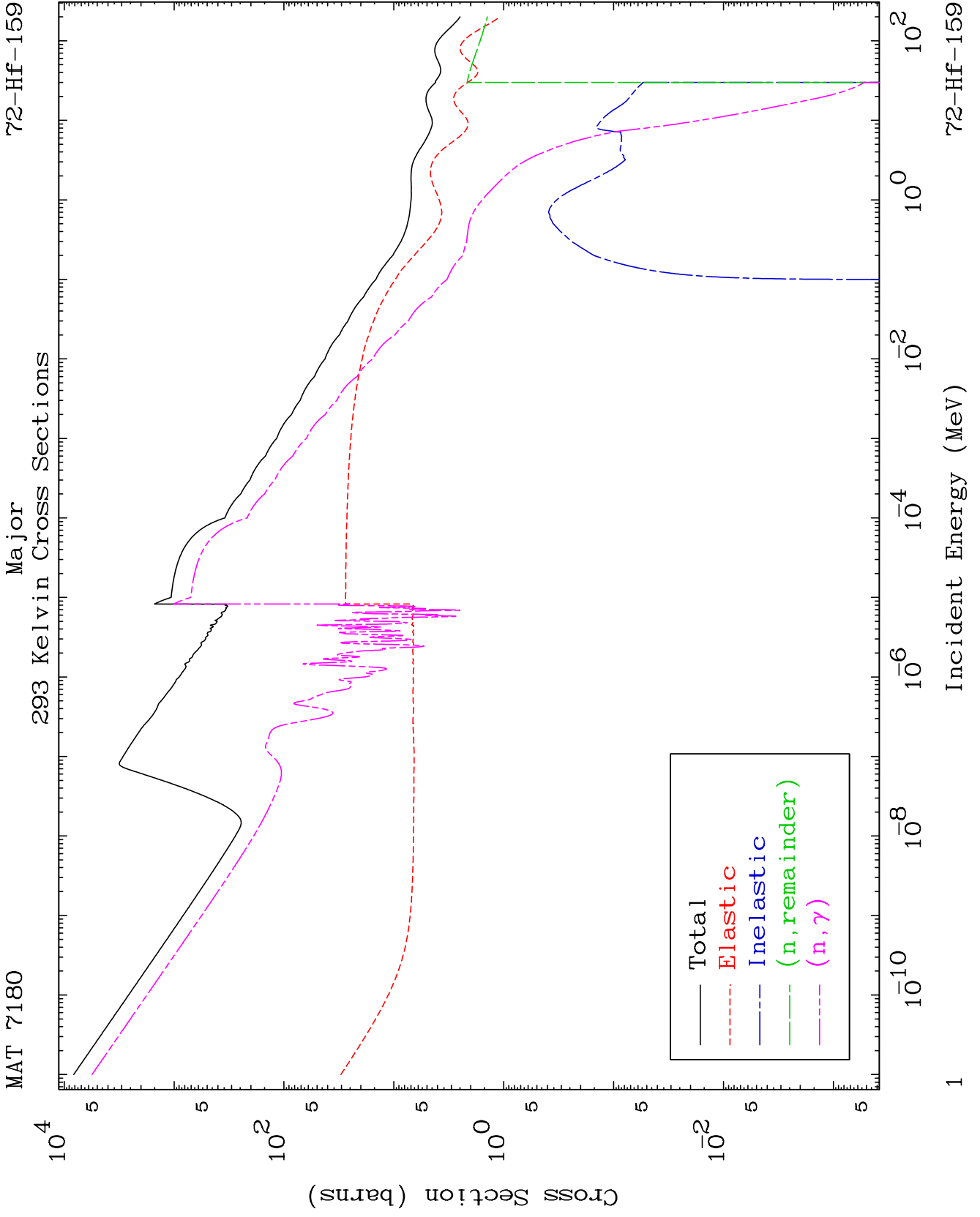
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Tele: 925-443-1911

E.Mail:redcullen1@comcast.net

Web:redcullen1.net/HOMEPAGE.NEW

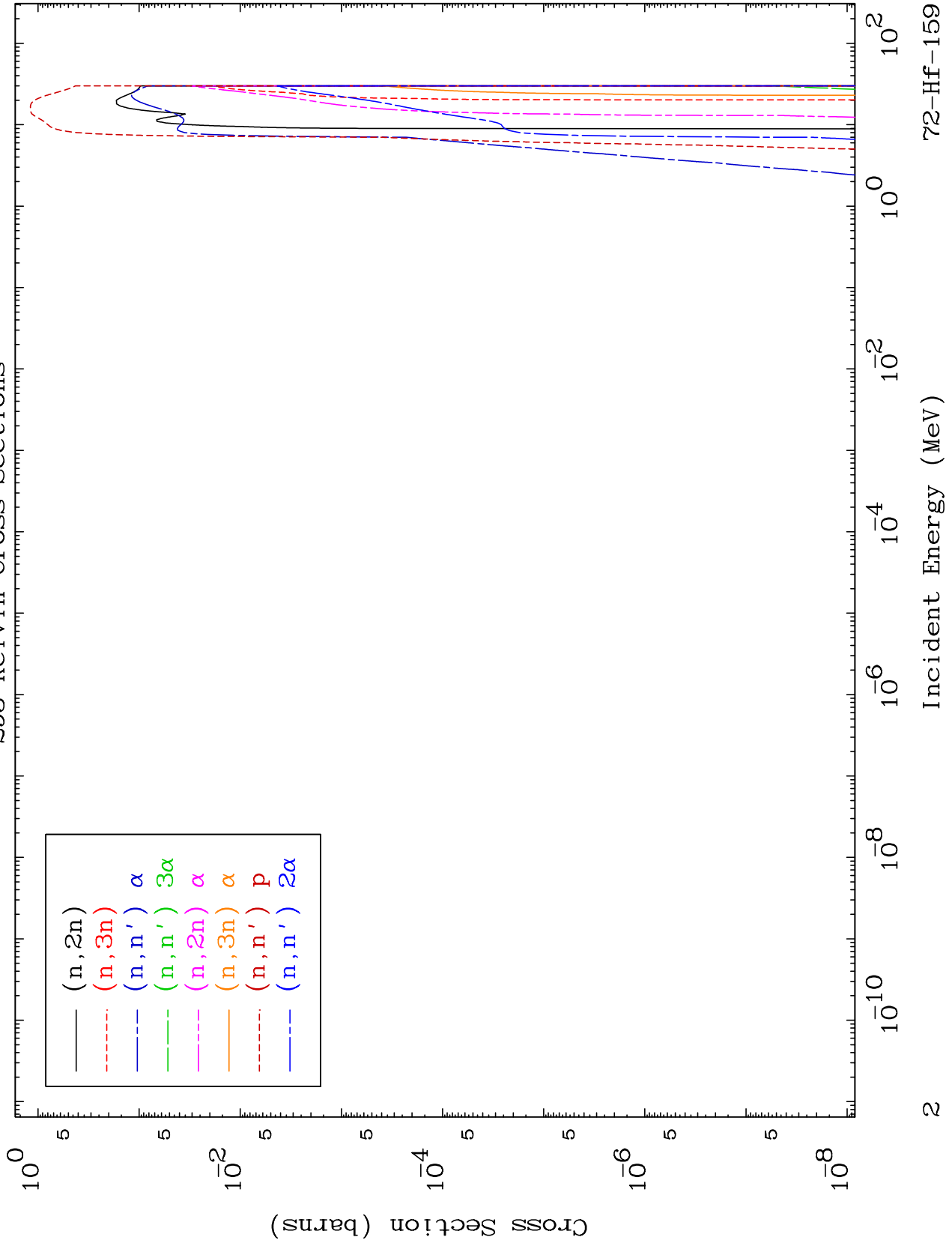
Press Mouse Button to Start



MAT 7180

Neutron Production
293 Kelvin Cross Sections

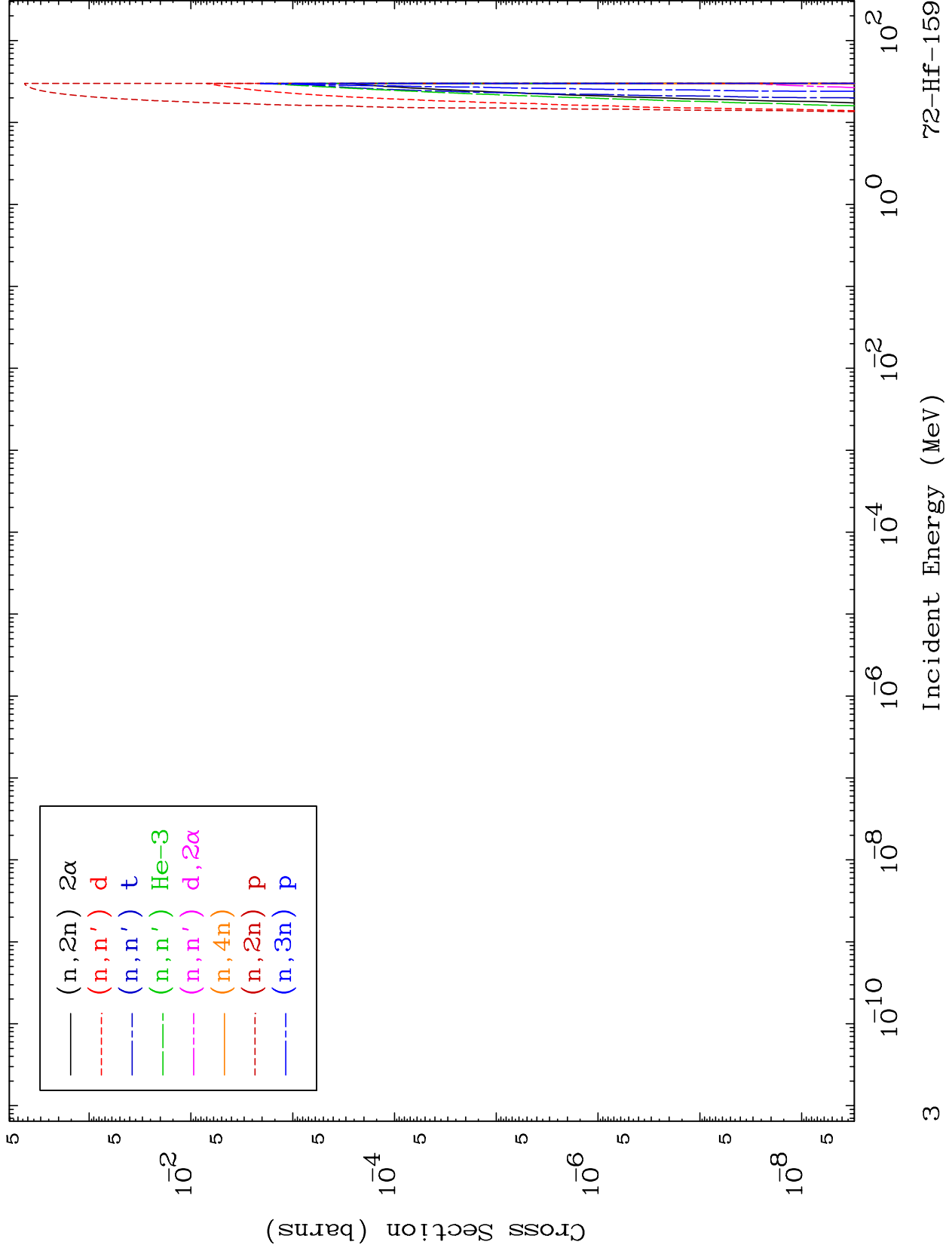
72-Hf-159



MAT 7180

Neutron Production
293 Kelvin Cross Sections

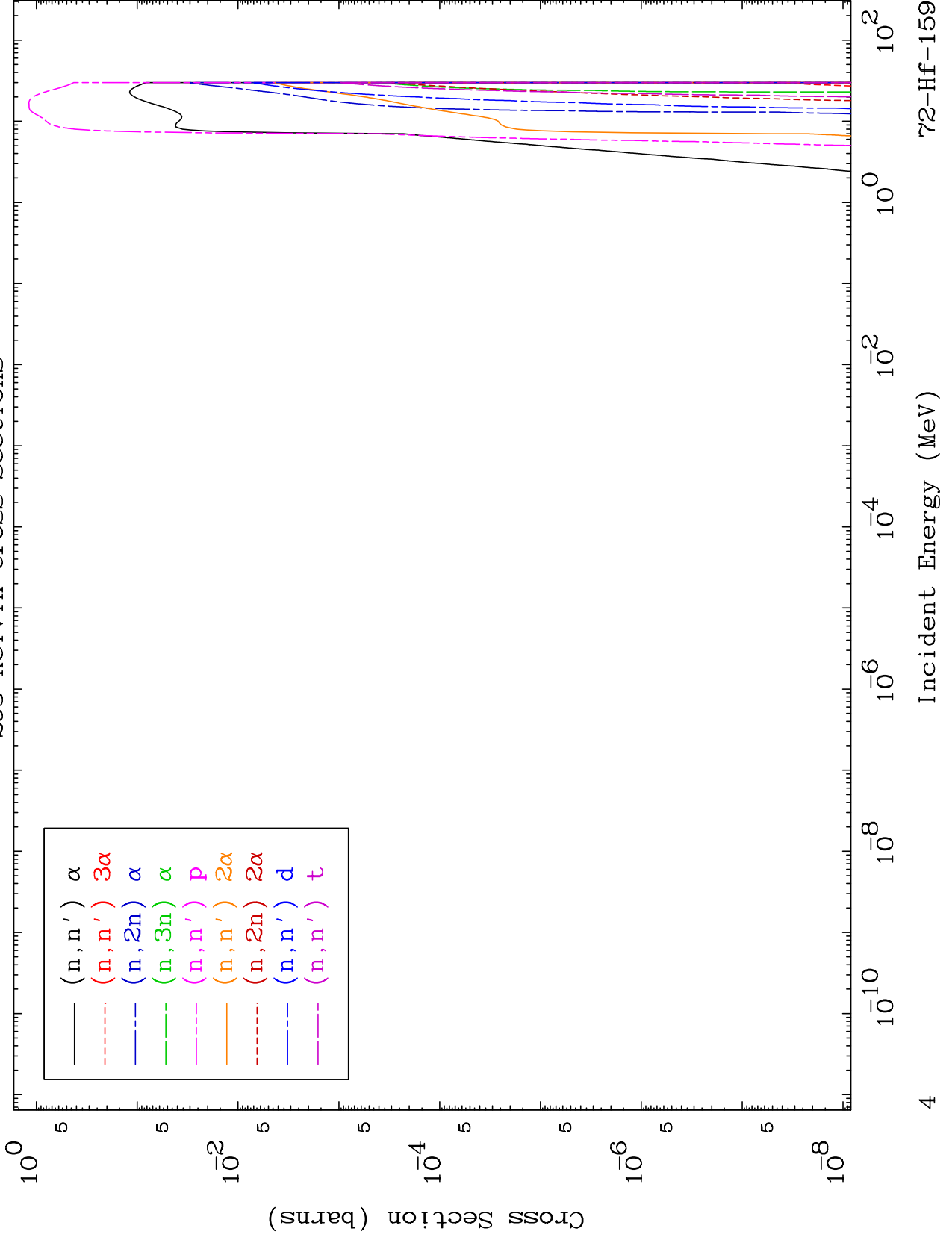
72-Hf-159



MAT 7180

Charged Particle
293 Kelvin Cross Sections

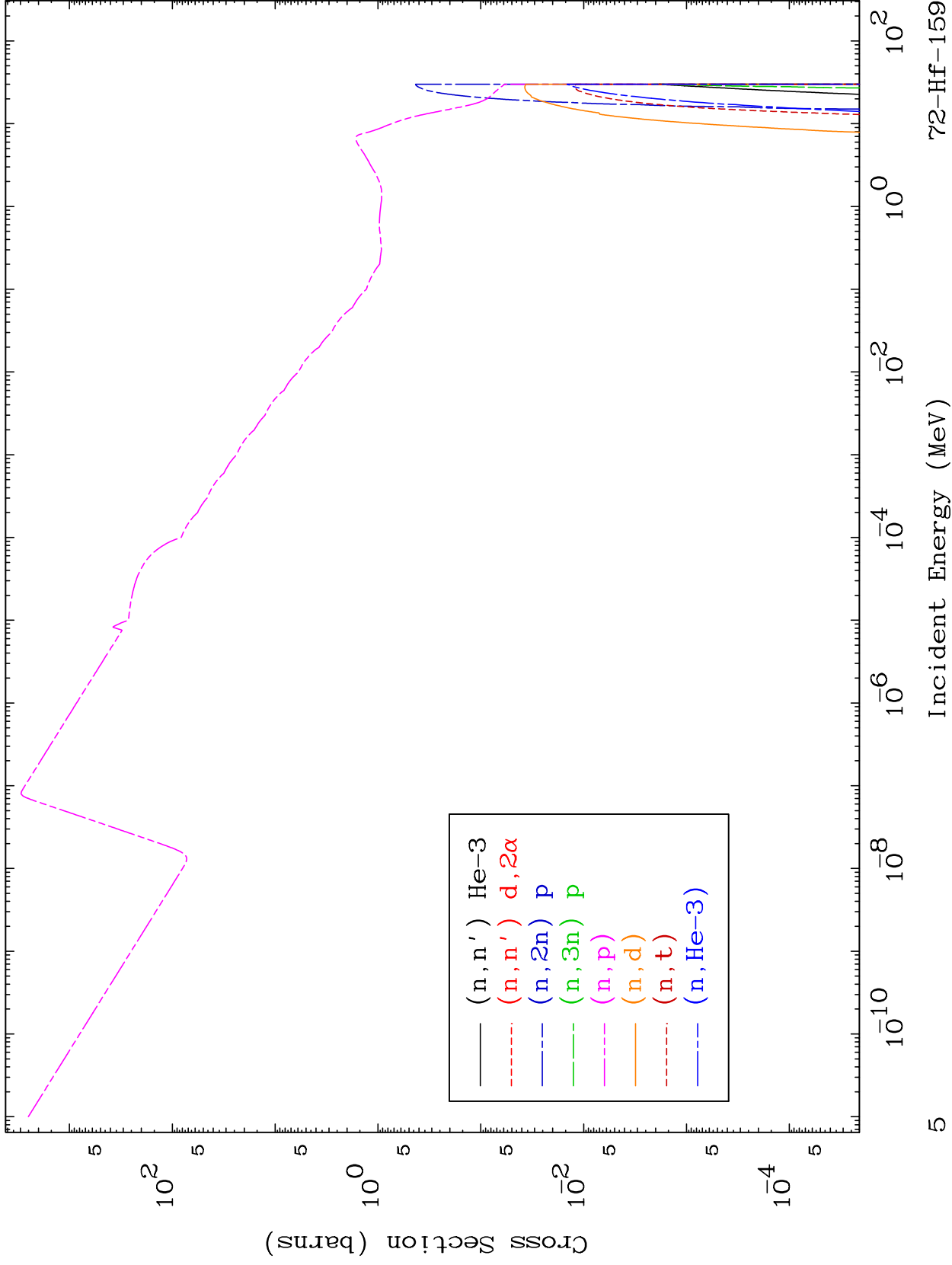
72-Hf-159



MAT 7180

Charged Particle
293 Kelvin Cross Sections

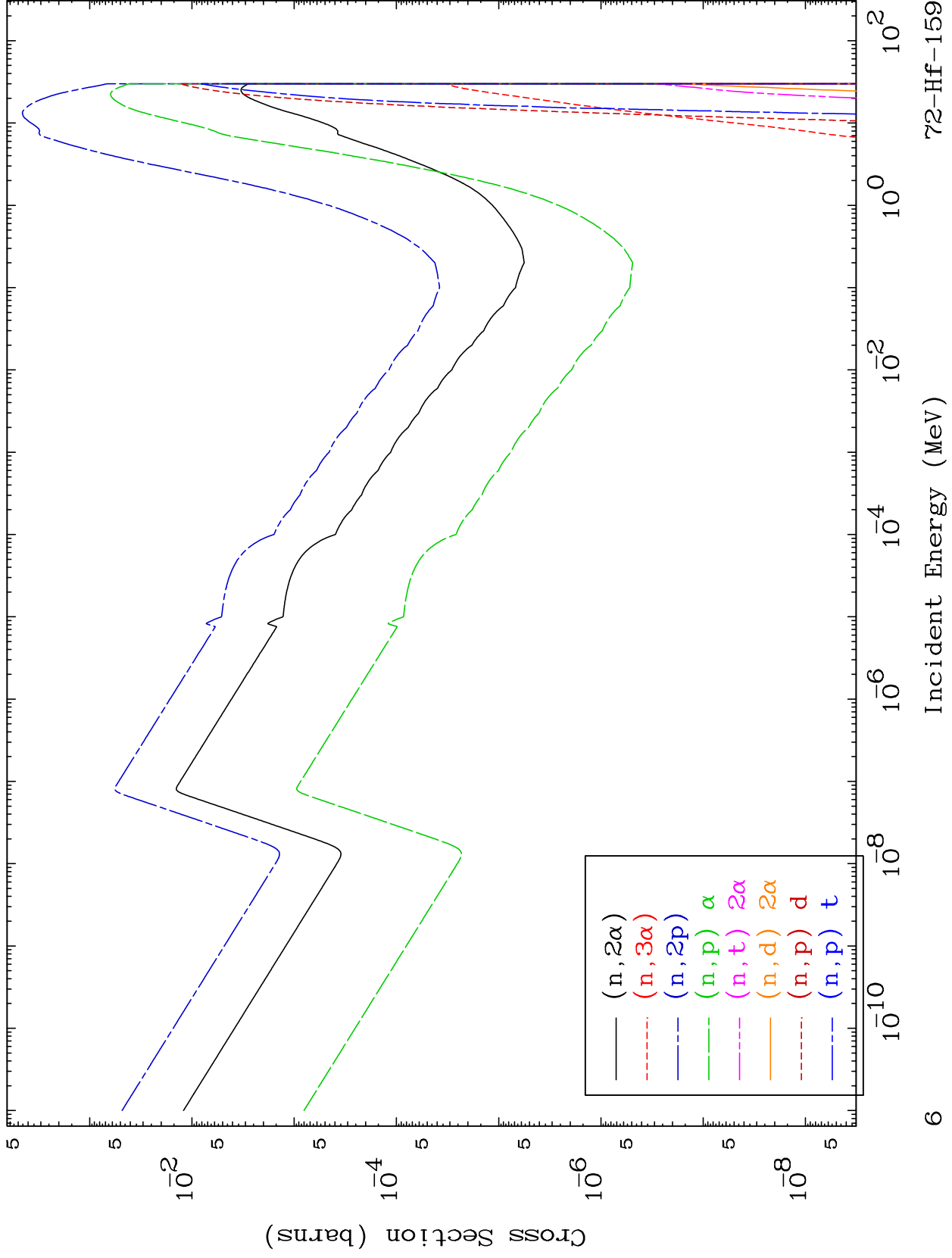
72-Hf-159



MAT 7180

Charged Particle
293 Kelvin Cross Sections

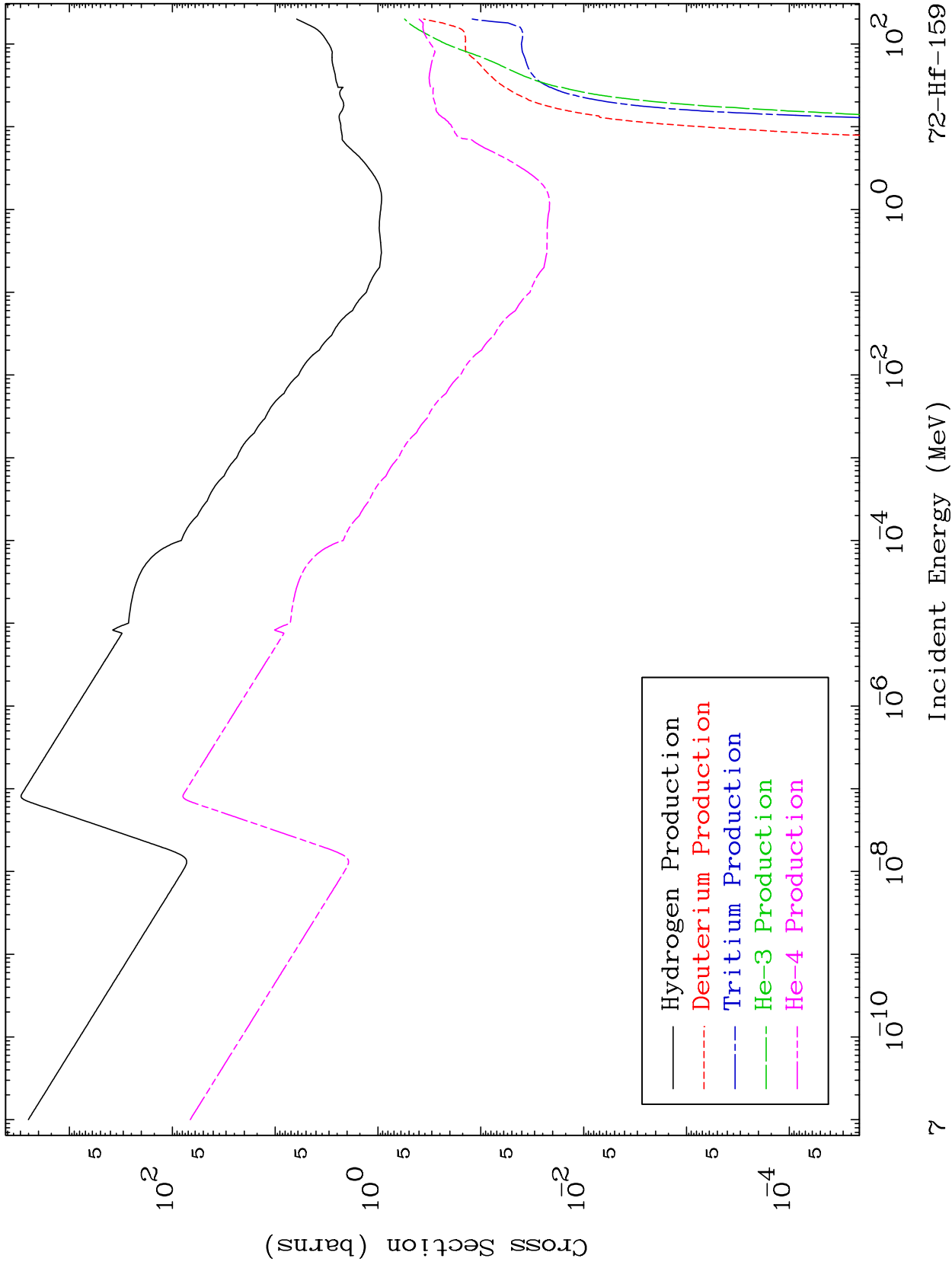
72-Hf-159



MAT 7180

Particle Production
293 Kelvin Cross Sections

72-Hf-159

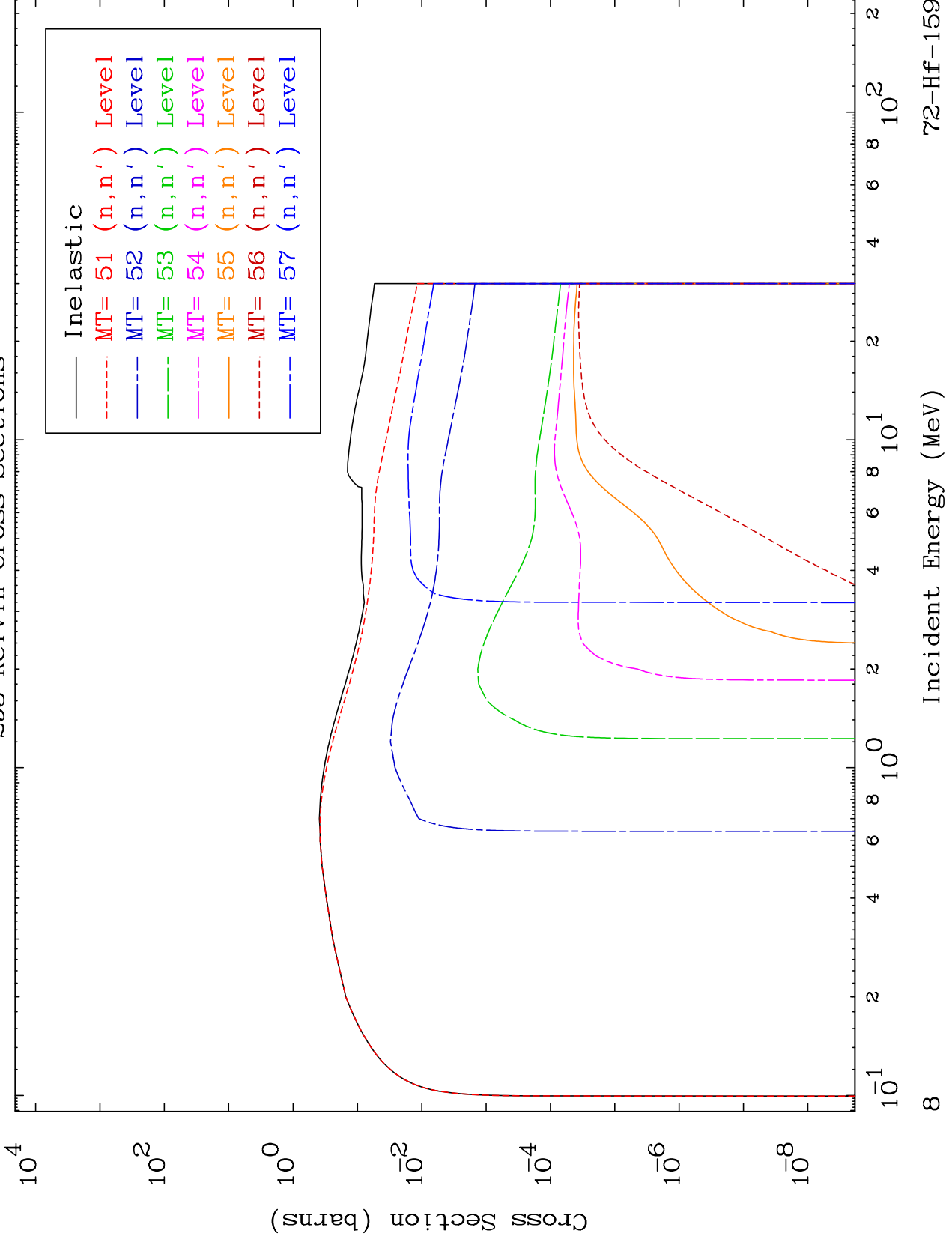


MAT 7180

(n,n') Level

72-Hf-159

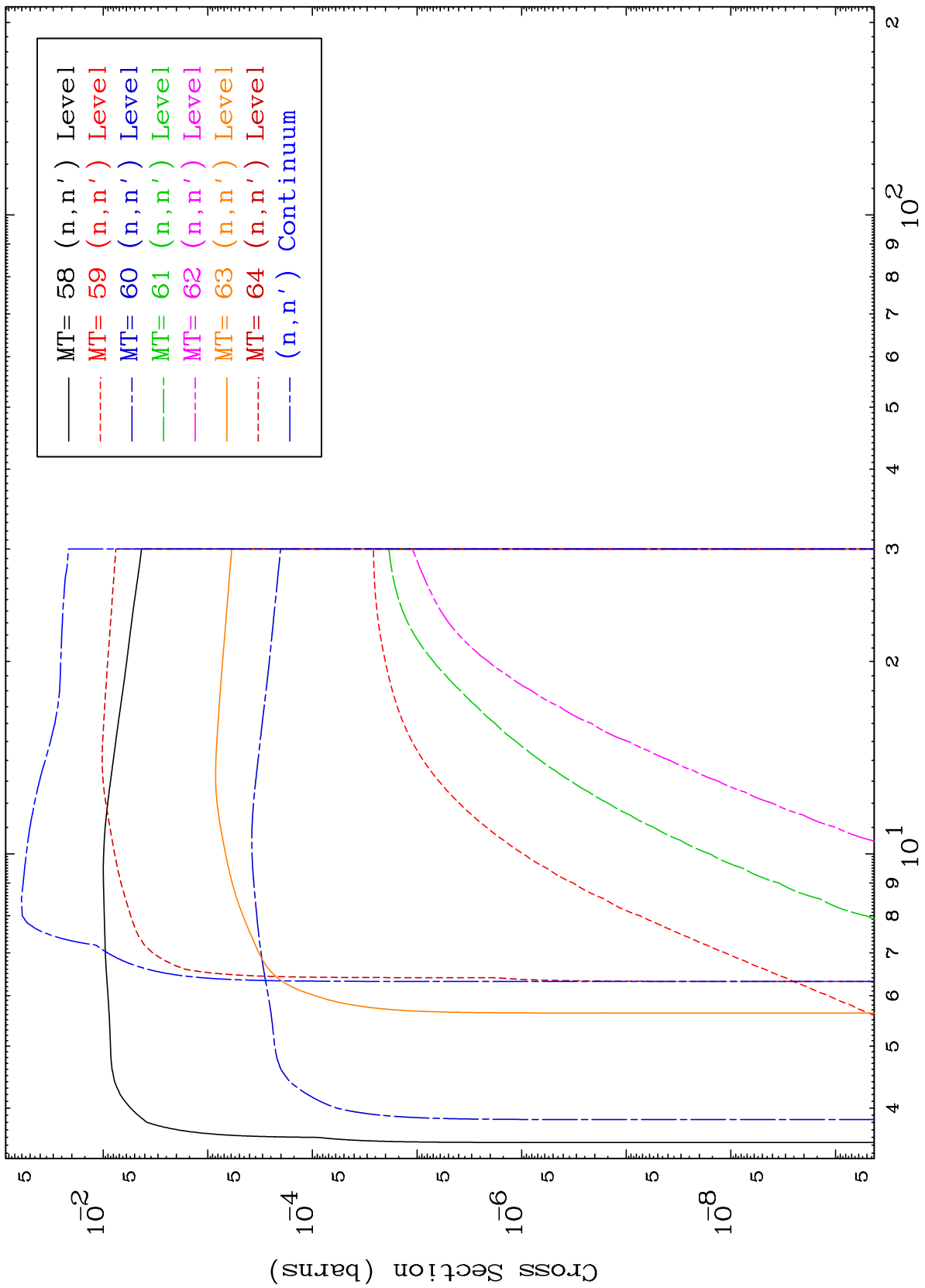
293 Kelvin Cross Sections



Incident Energy (MeV)

72-Hf-159

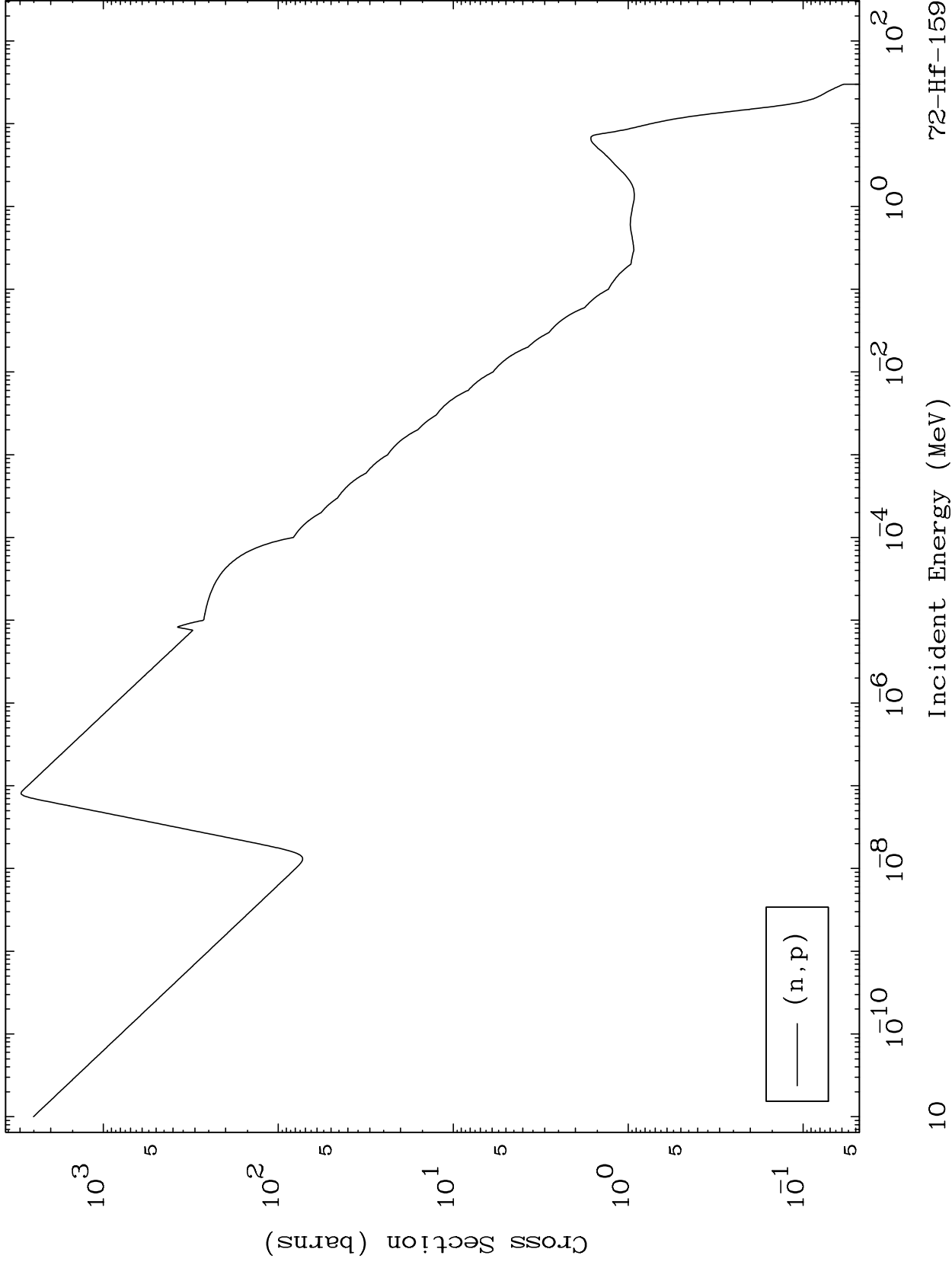
293 Kelvin Cross Sections



MAT 7180

(n,p) Levels
293 Kelvin Cross Sections

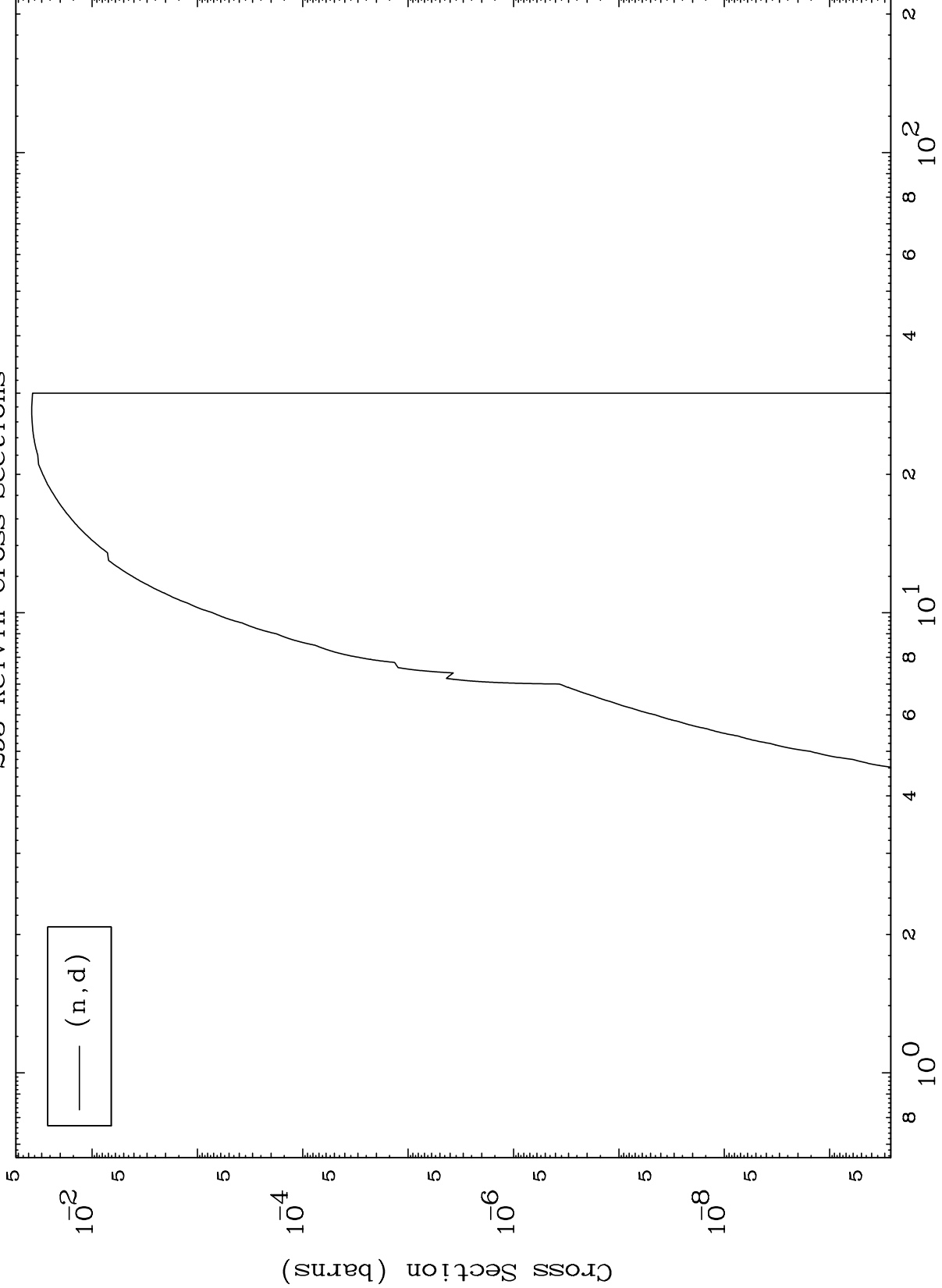
72-Hf-159



MAT 7180

(n,d) Levels
293 Kelvin Cross Sections

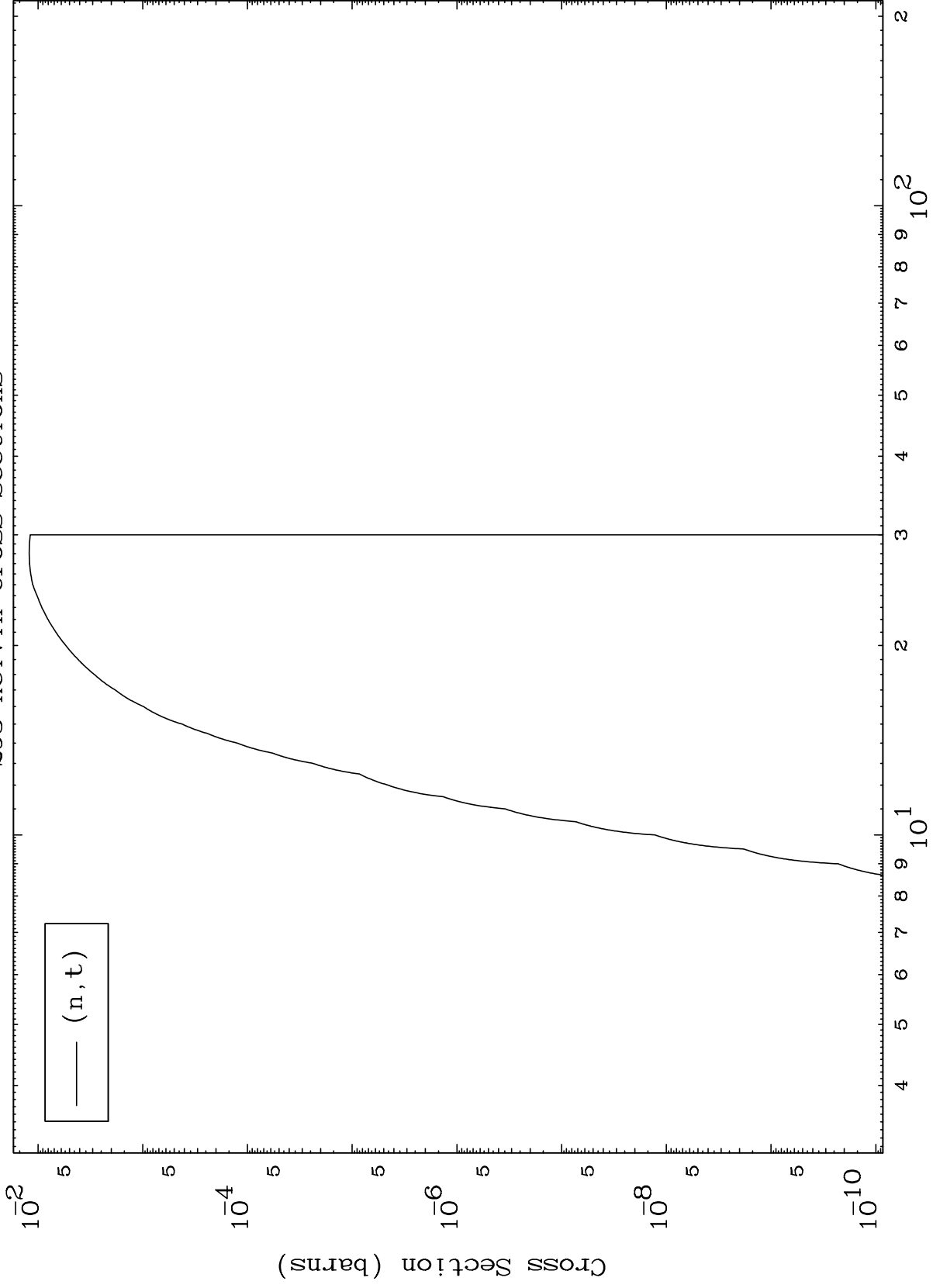
72-Hf-159



MAT 7180

(n,t) Levels
293 Kelvin Cross Sections

72-Hf-159



12

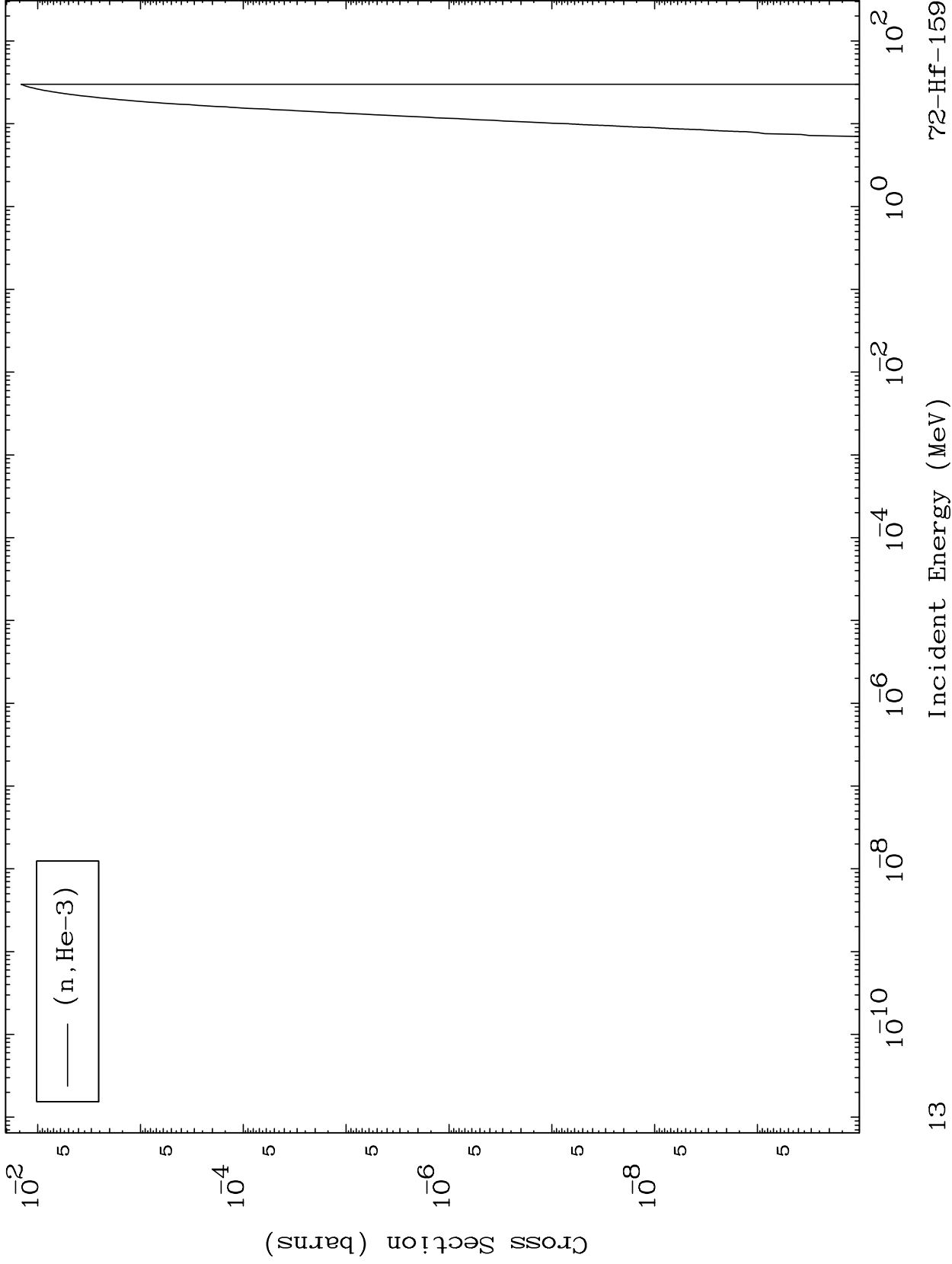
Incident Energy (MeV)

72-Hf-159

MAT 7180

(n,He3) Levels
293 Kelvin Cross Sections

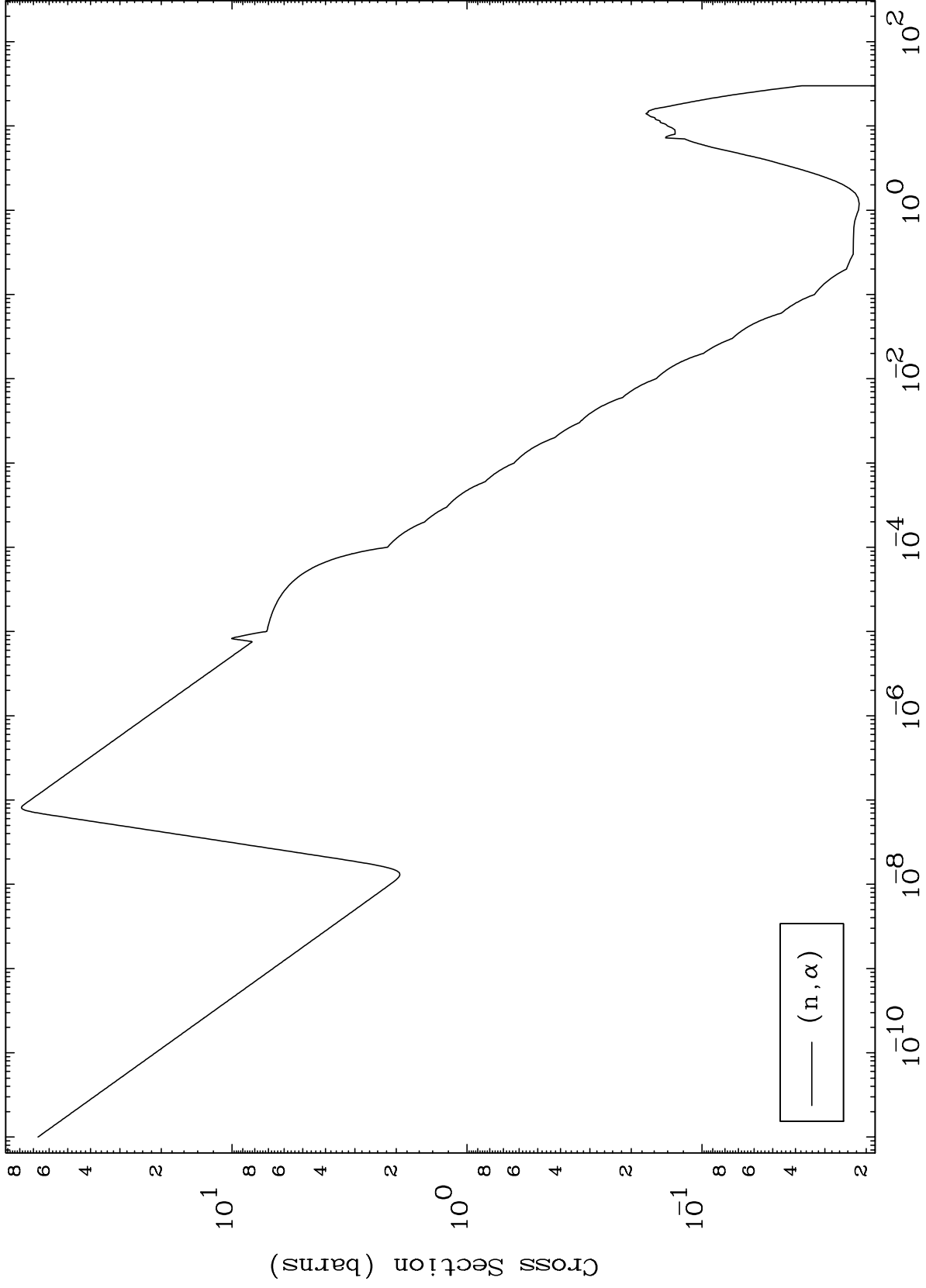
72-Hf-159



MAT 7180

(n,α) Levels
293 Kelvin Cross Sections

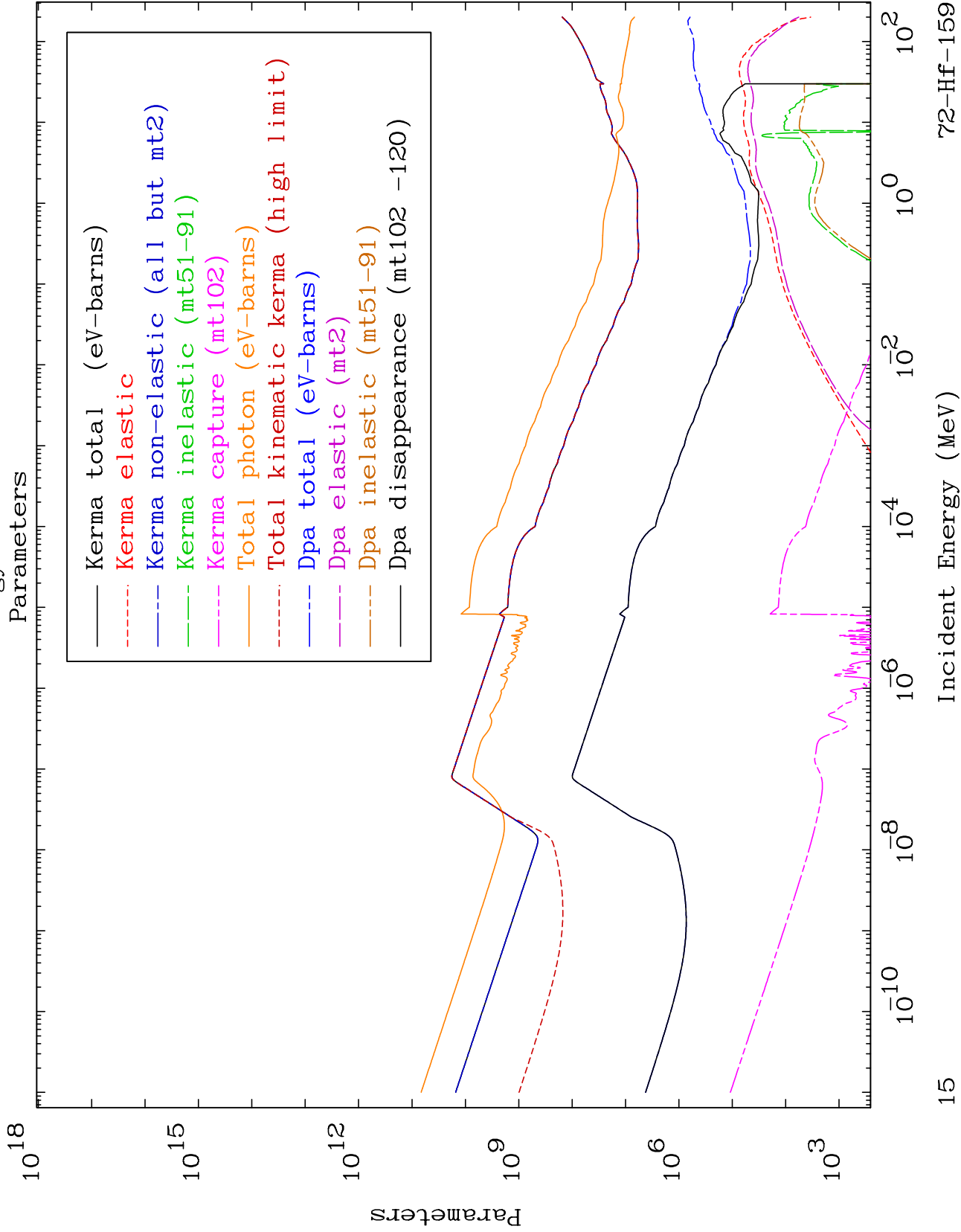
72-Hf-159



14

Incident Energy (MeV)

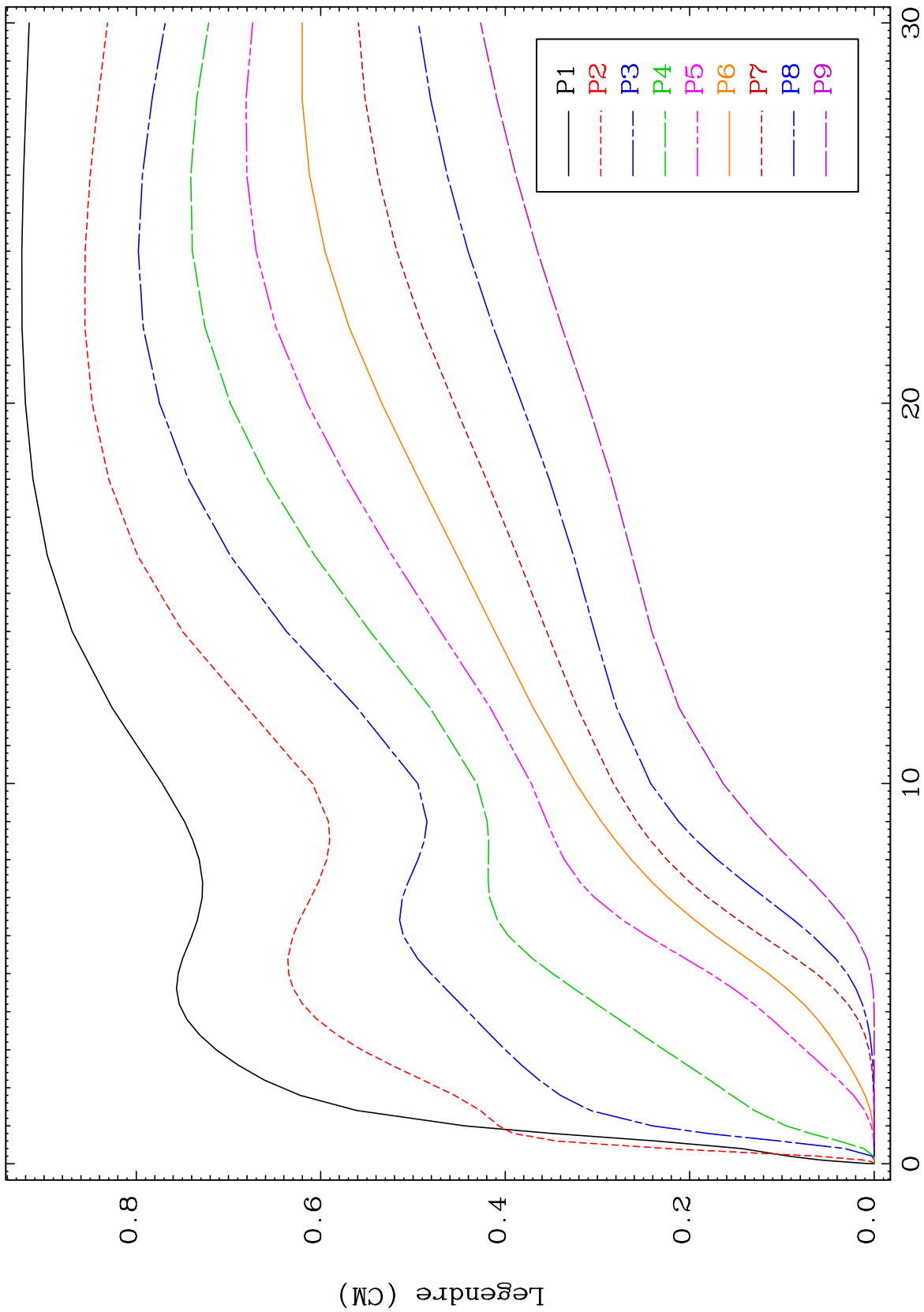
72-Hf-159



MAT 7180

Elastic Legendre Coefficients

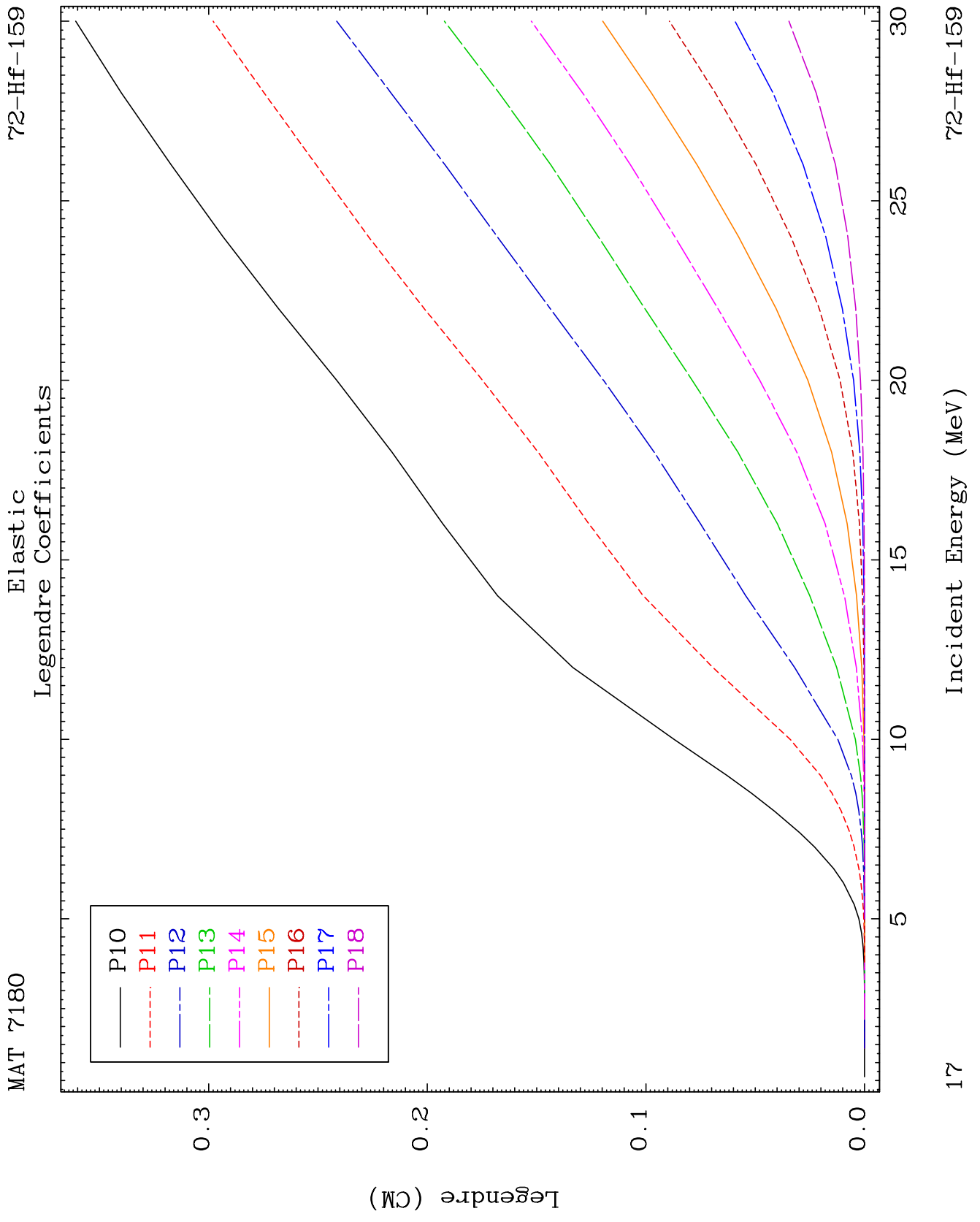
72-Hf-159



16

Incident Energy (MeV)

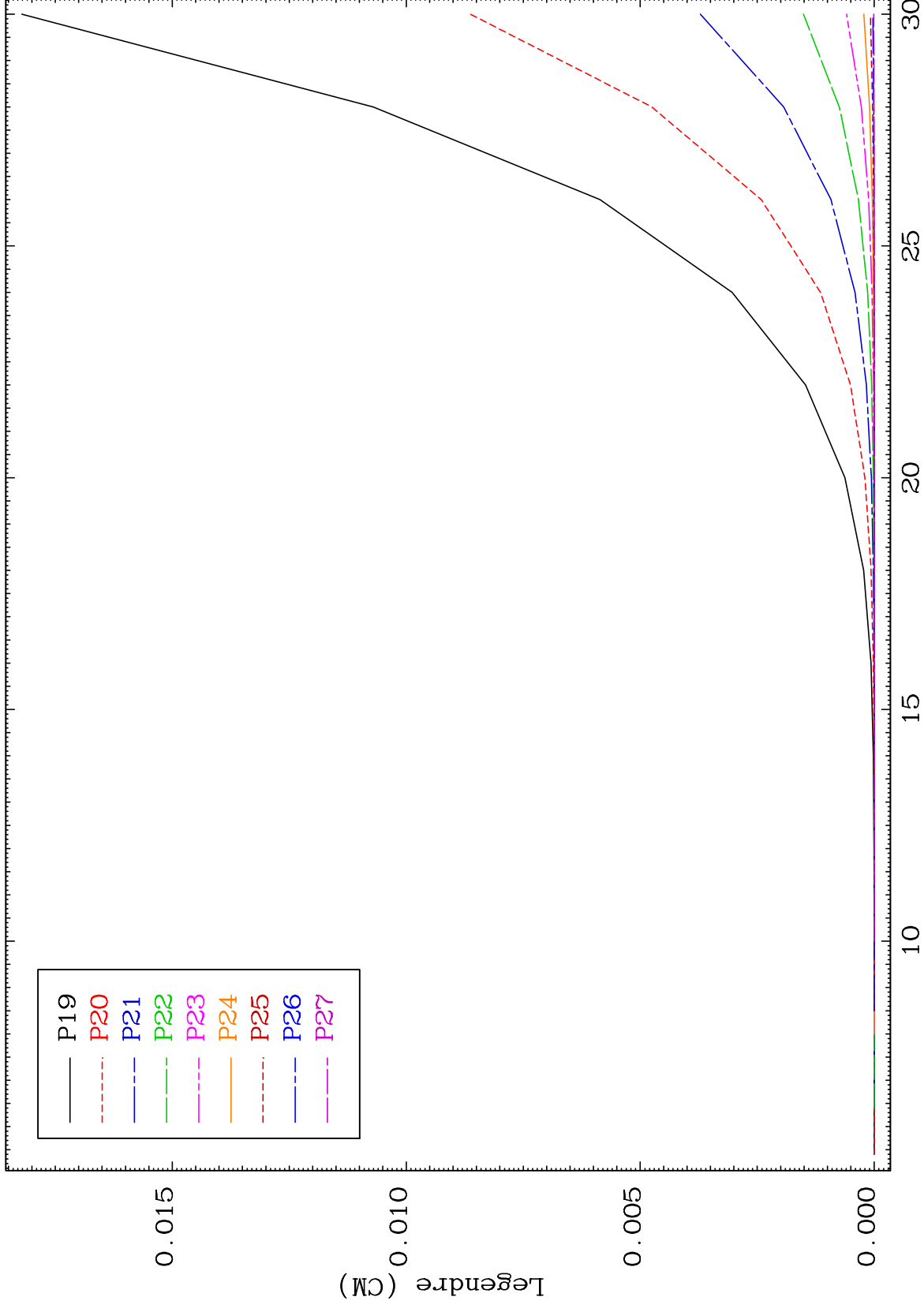
72-Hf-159



MAT 7180

Elastic
Legendre Coefficients

72-Hf-159



18

Incident Energy (MeV)

72-Hf-159

30

25

20

15

10

Legendre (CM)

0.015

0.010

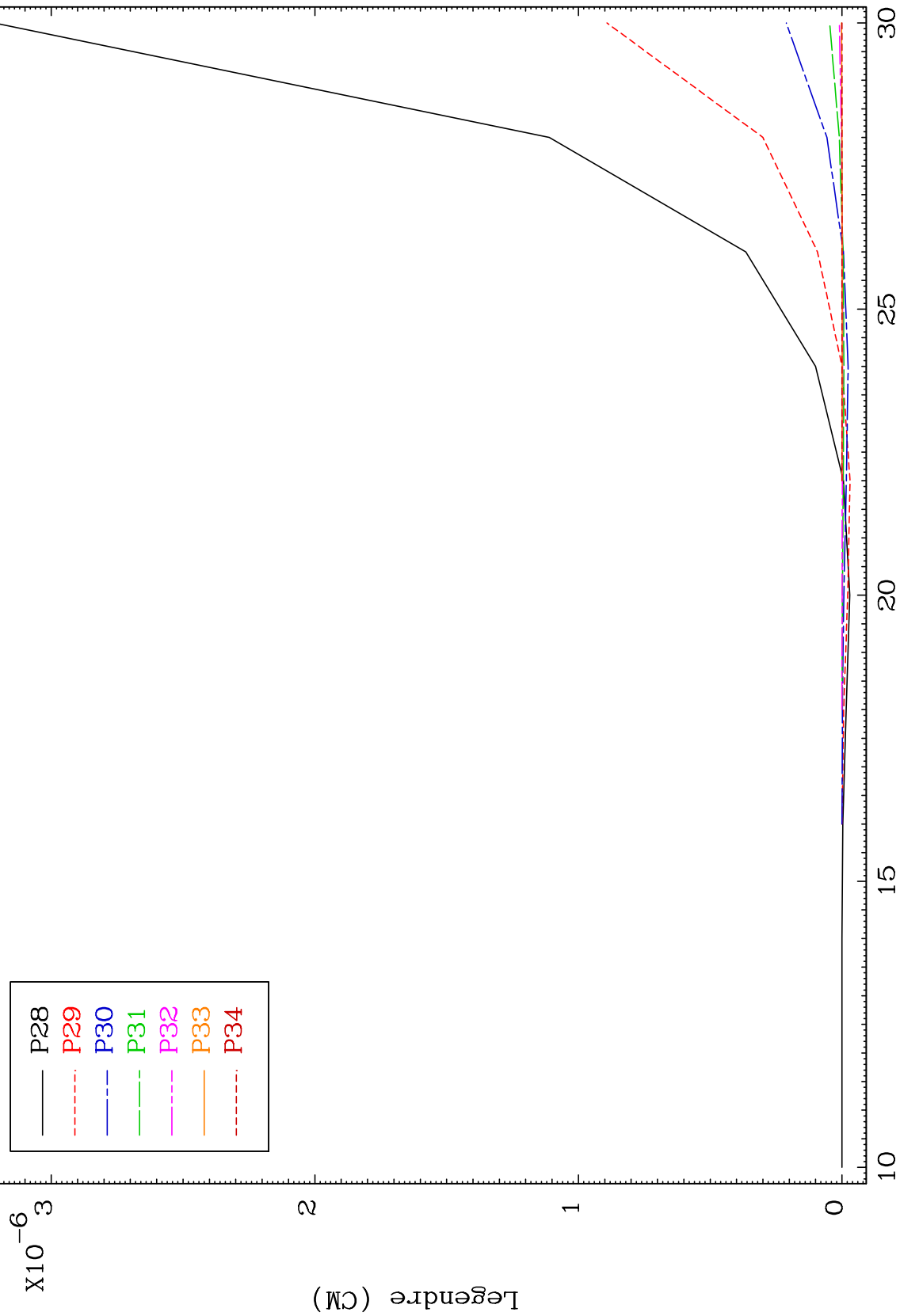
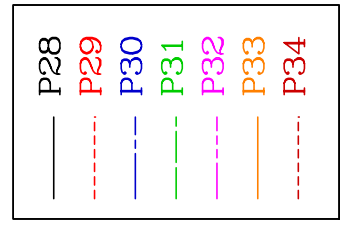
0.005

0.000

MAT 7180

Elastic Legendre Coefficients

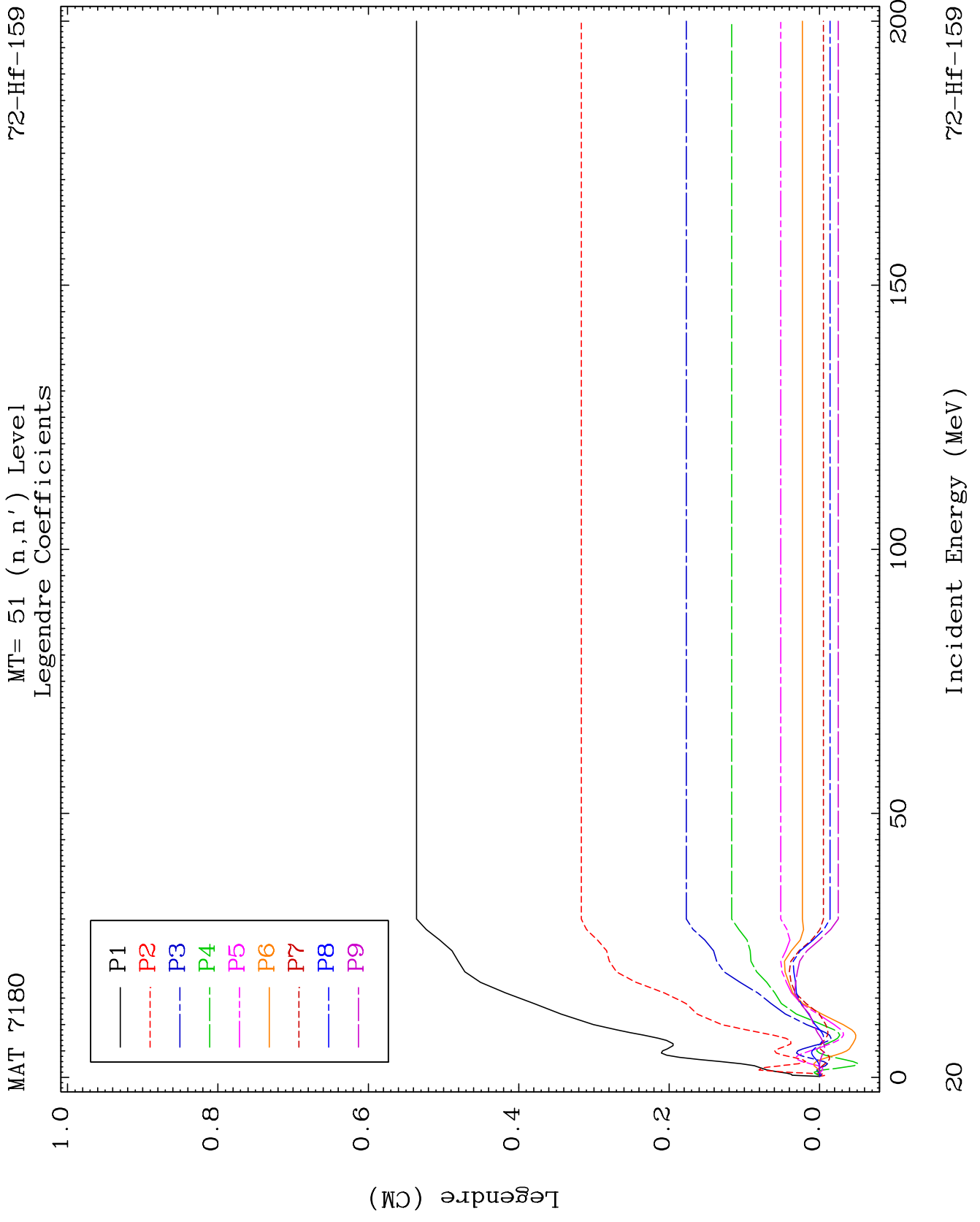
72-Hf-159



19

Incident Energy (MeV)

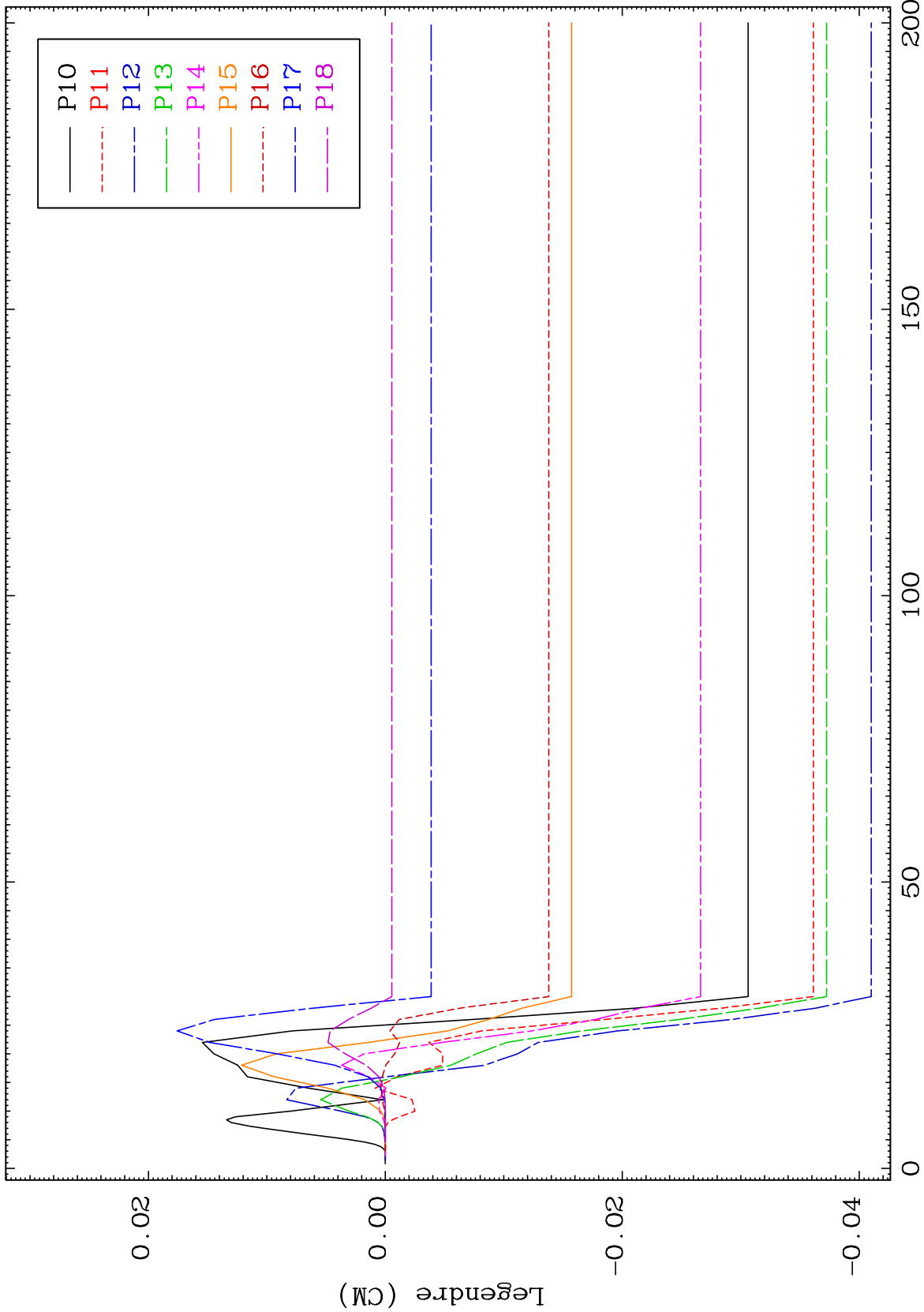
72-Hf-159

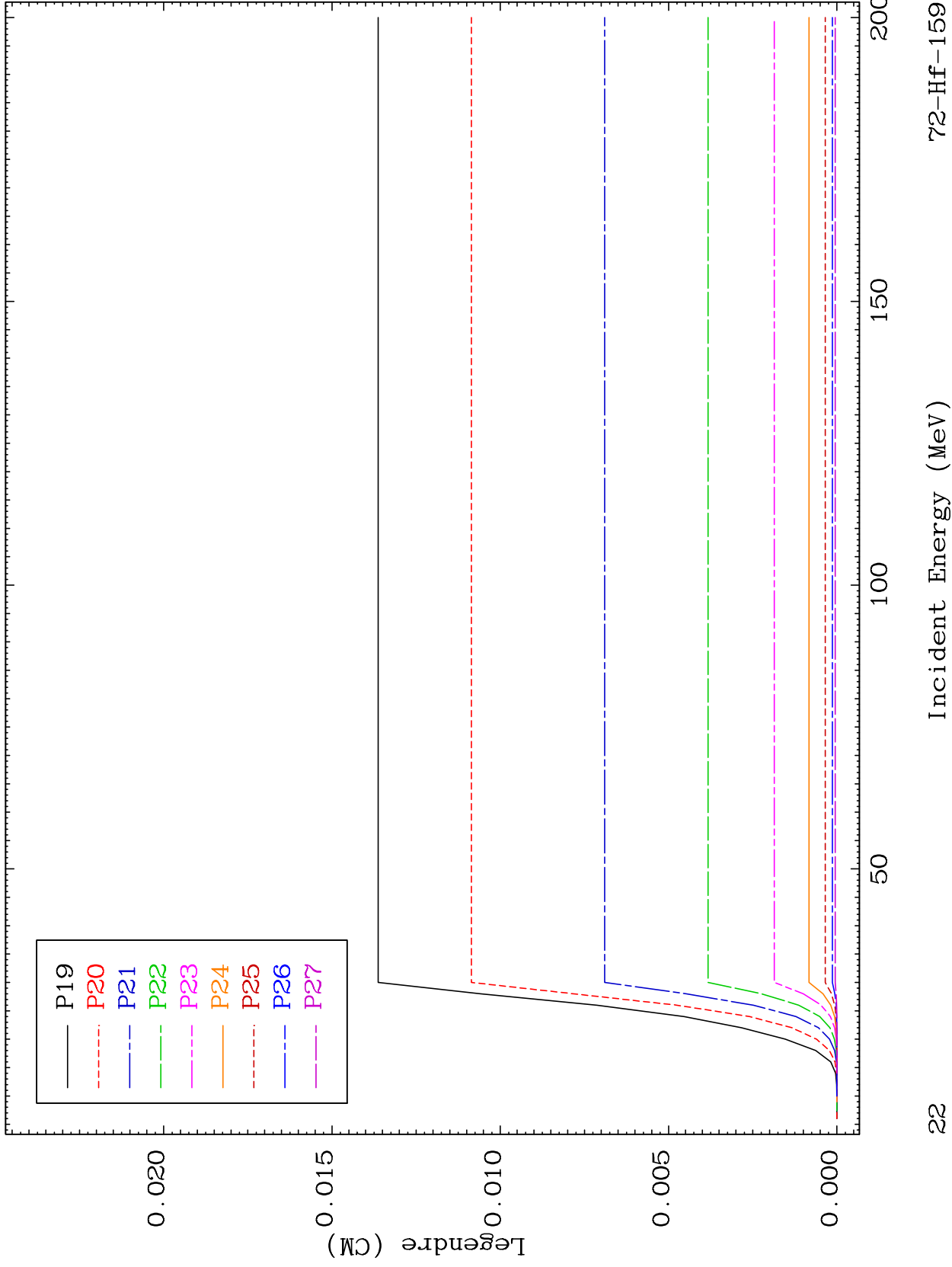


MAT 7180

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

72-Hf-159

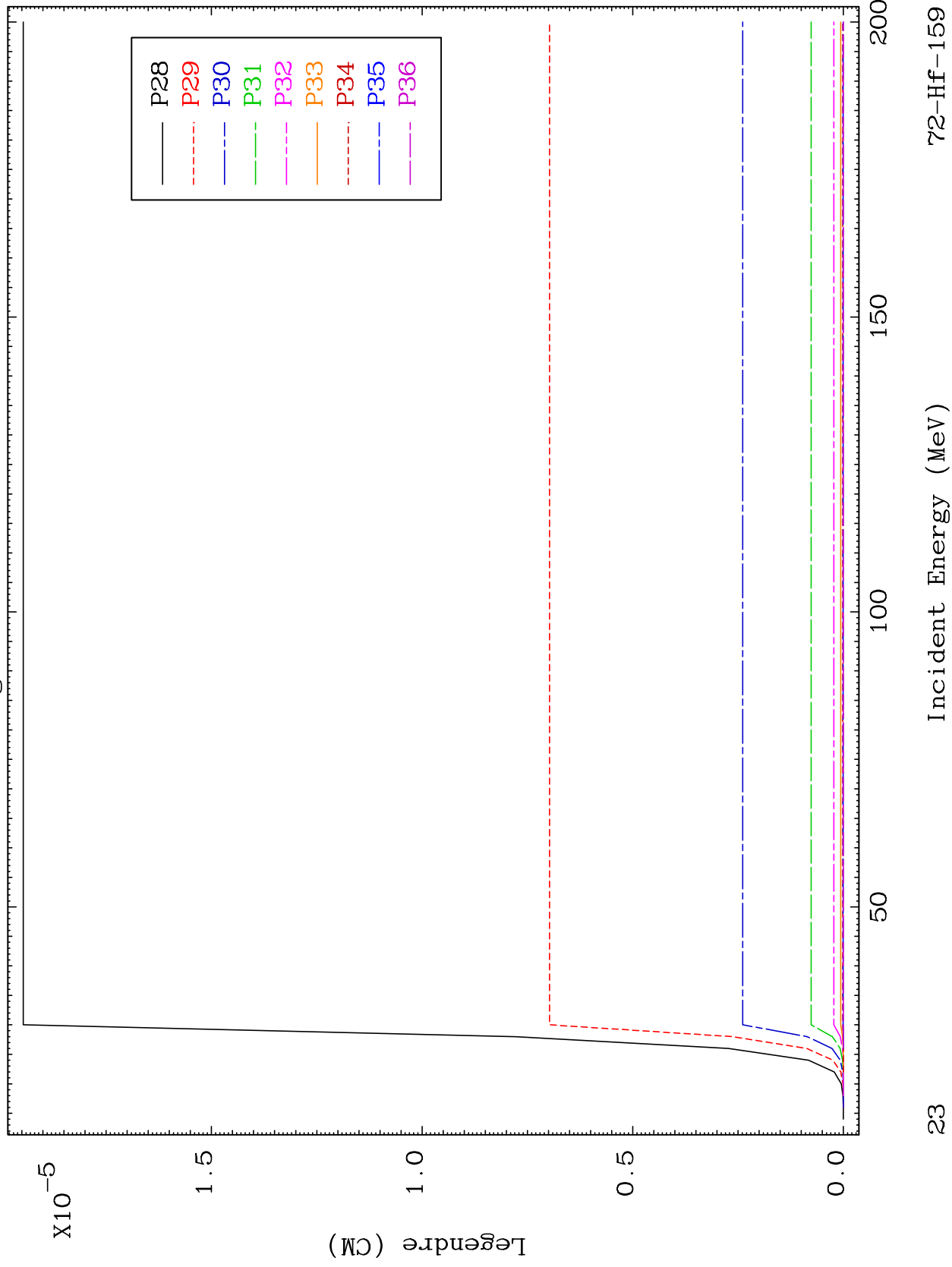




MAT 7180

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

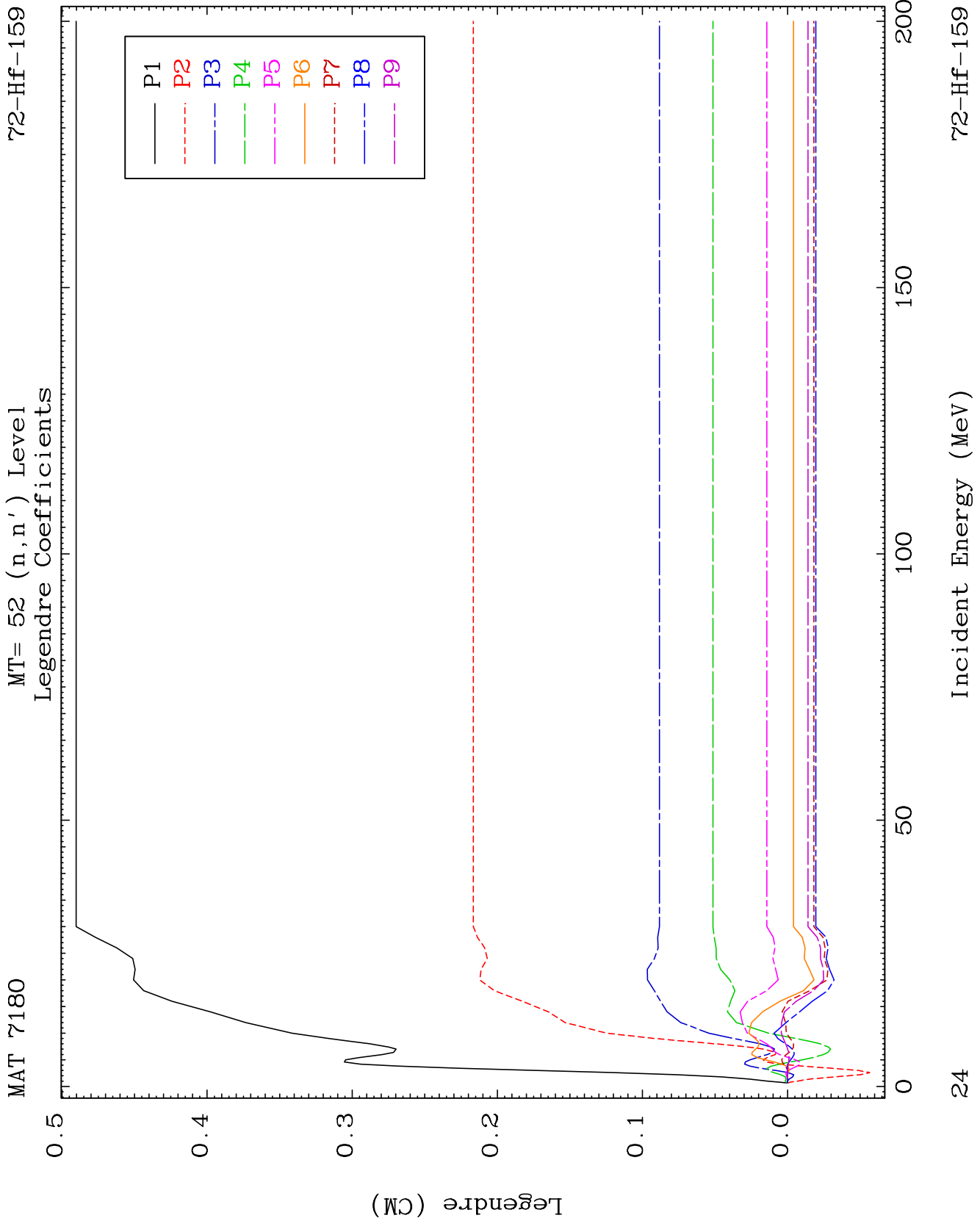
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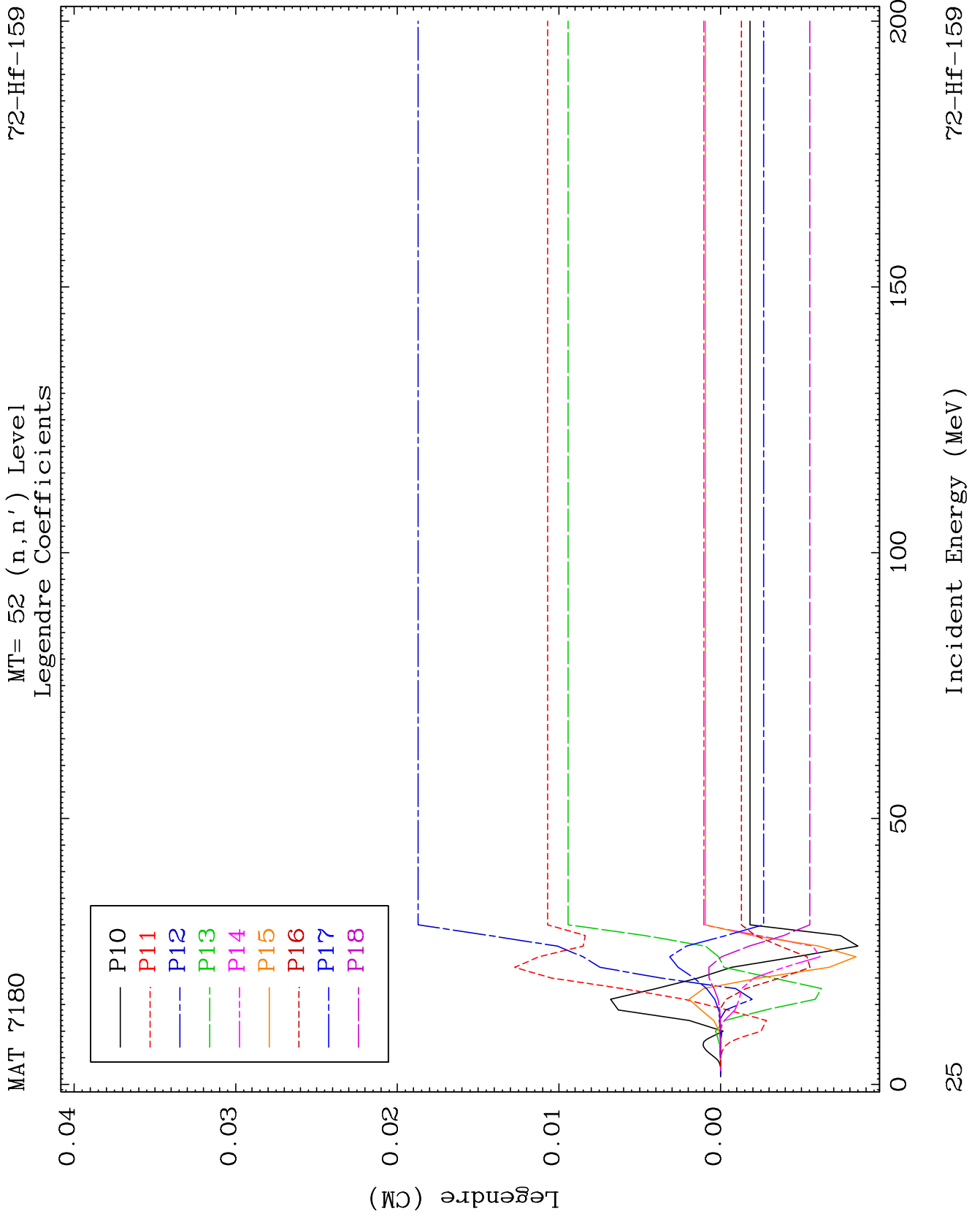


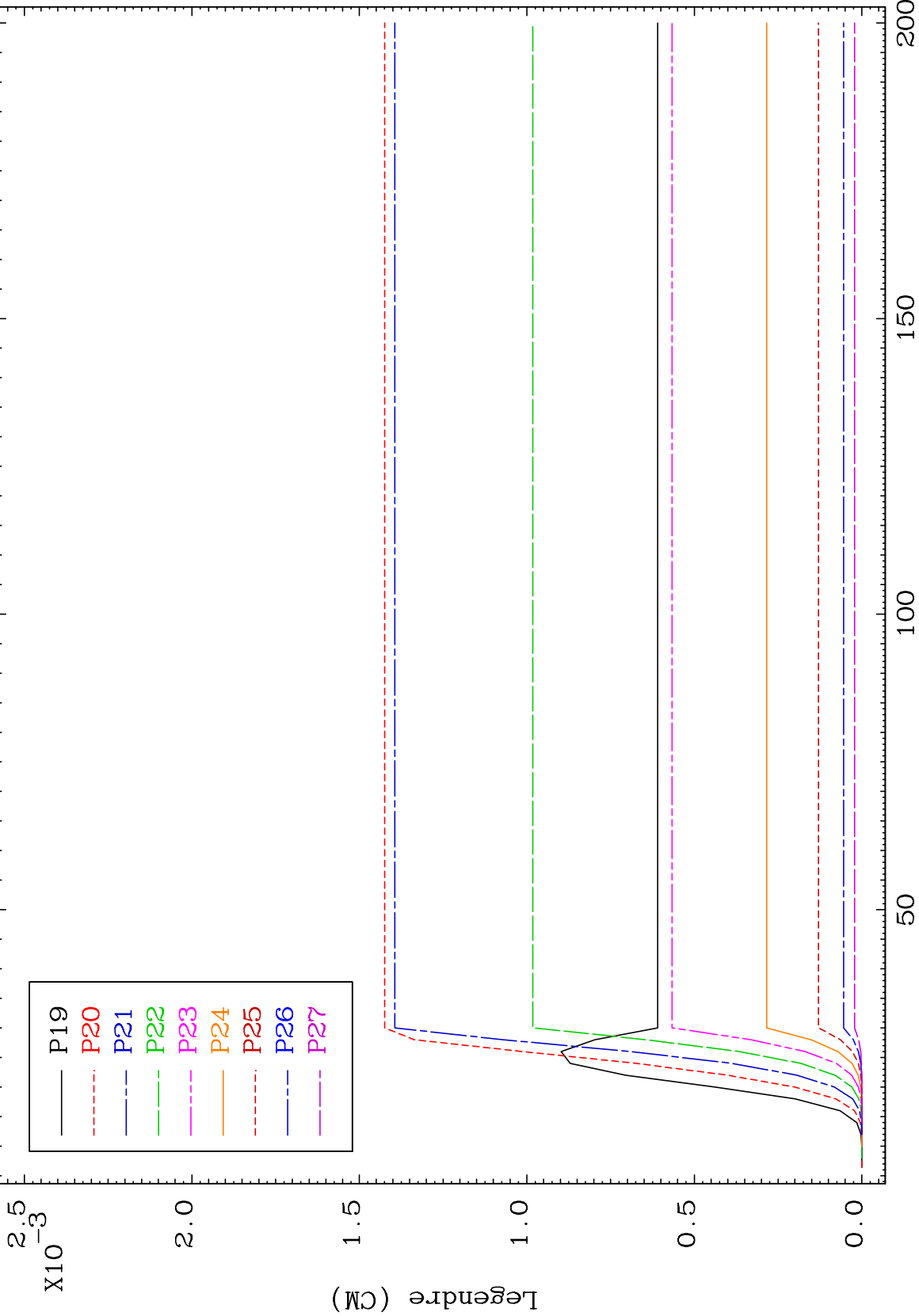
23

Incident Energy (MeV)

72-Hf-159



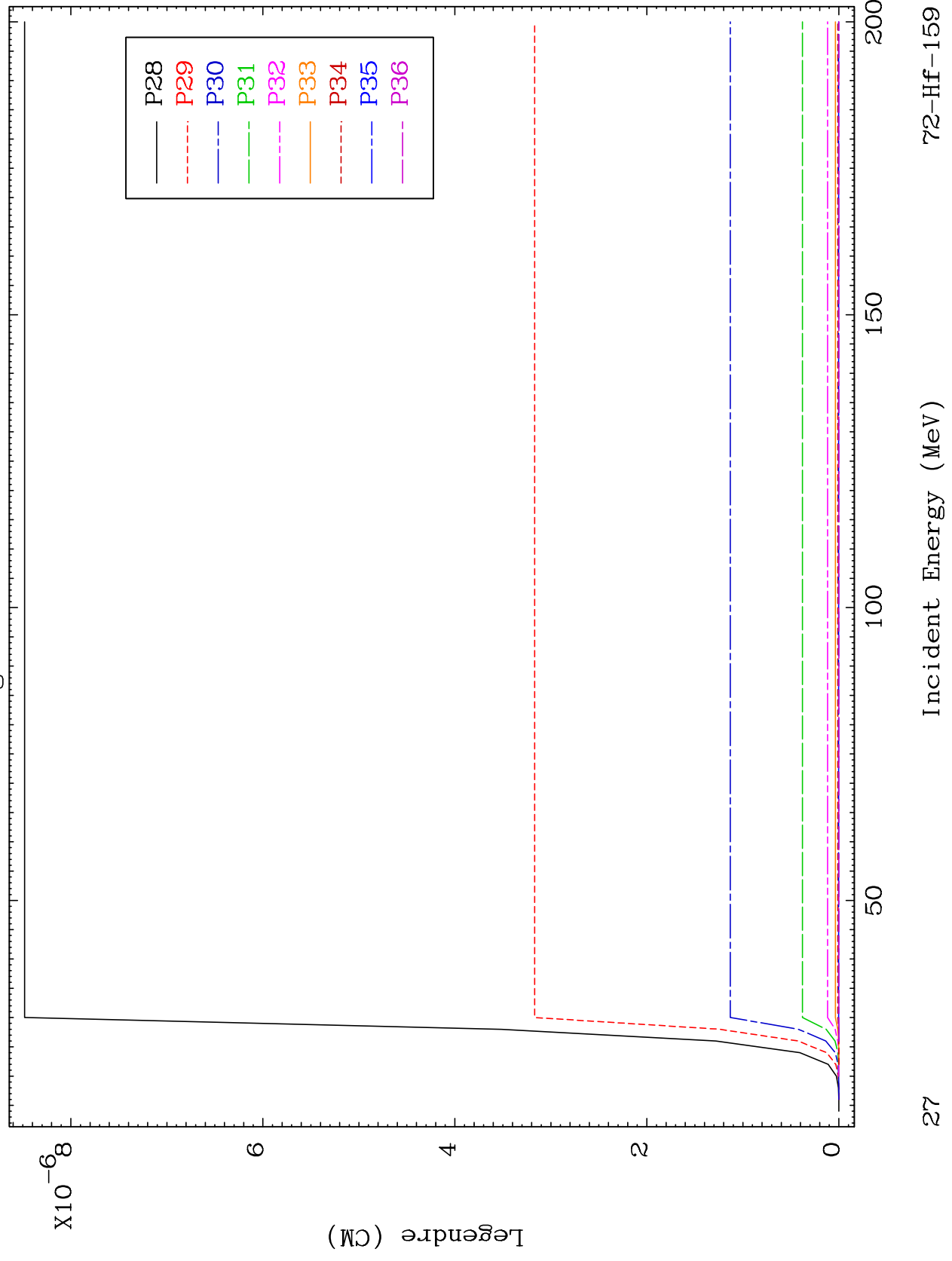




MAT 7180

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

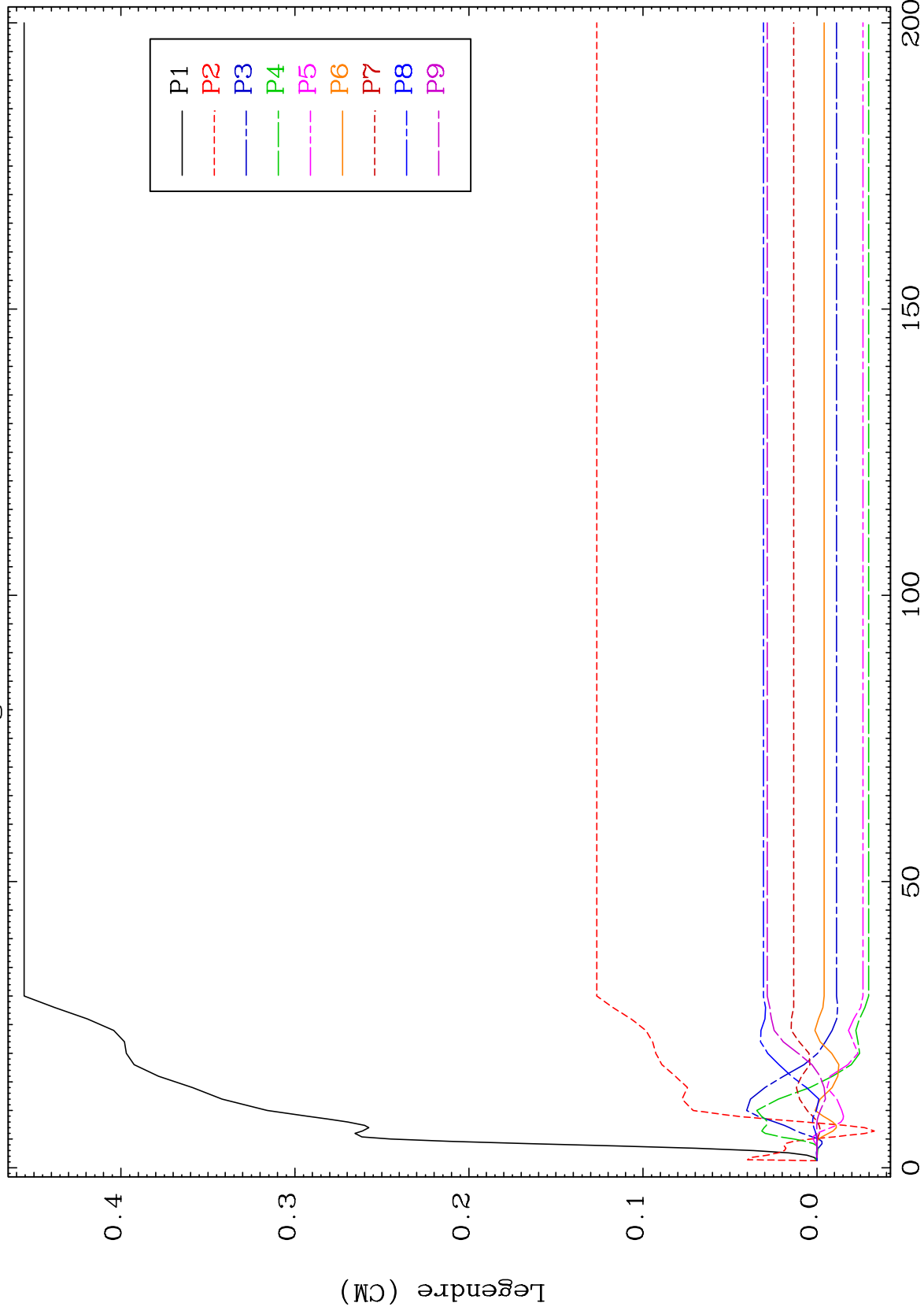
72-Hf-159



MAT 7180

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

72-Hf-159



28

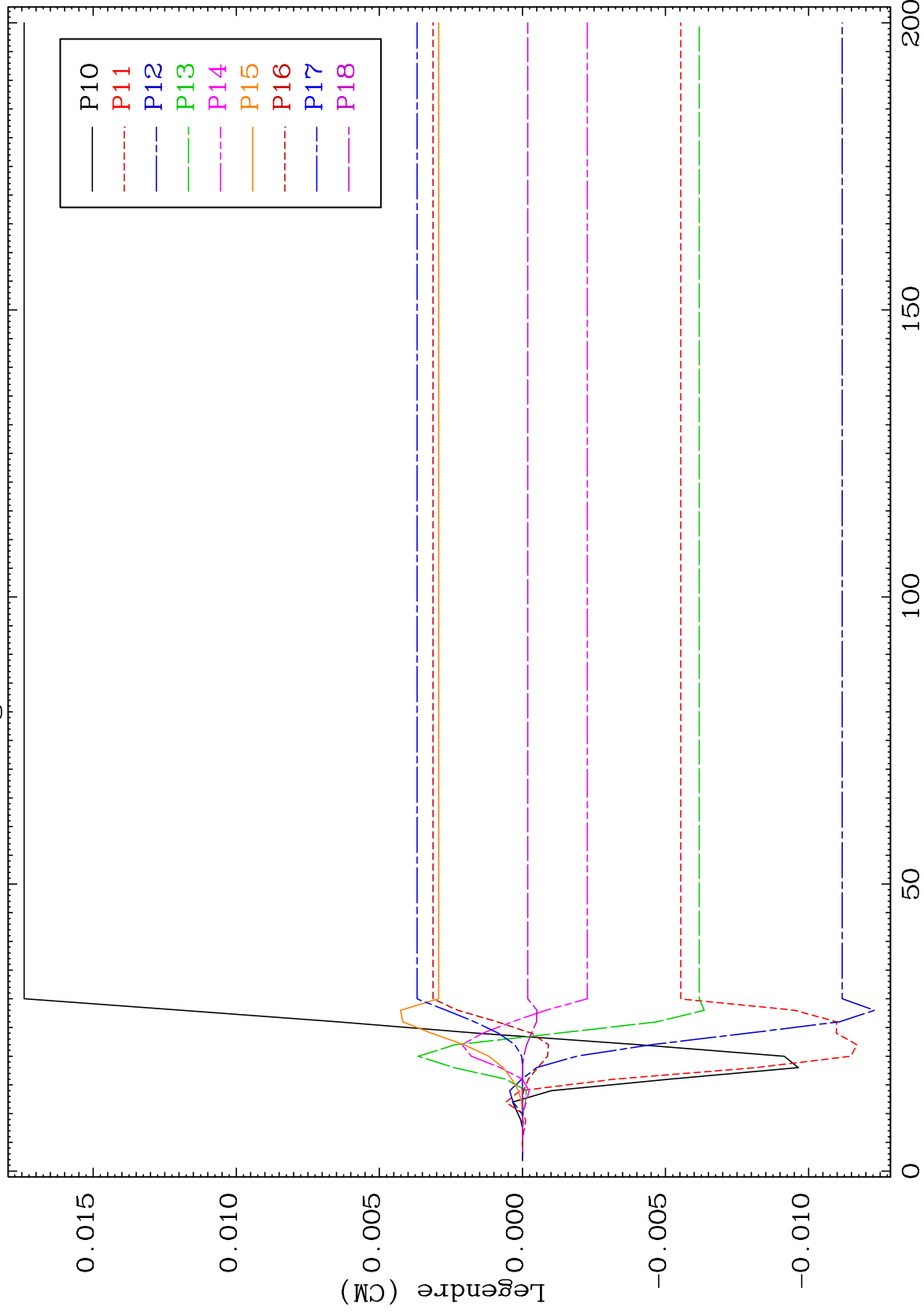
Incident Energy (MeV)

72-Hf-159

MAT 7180

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

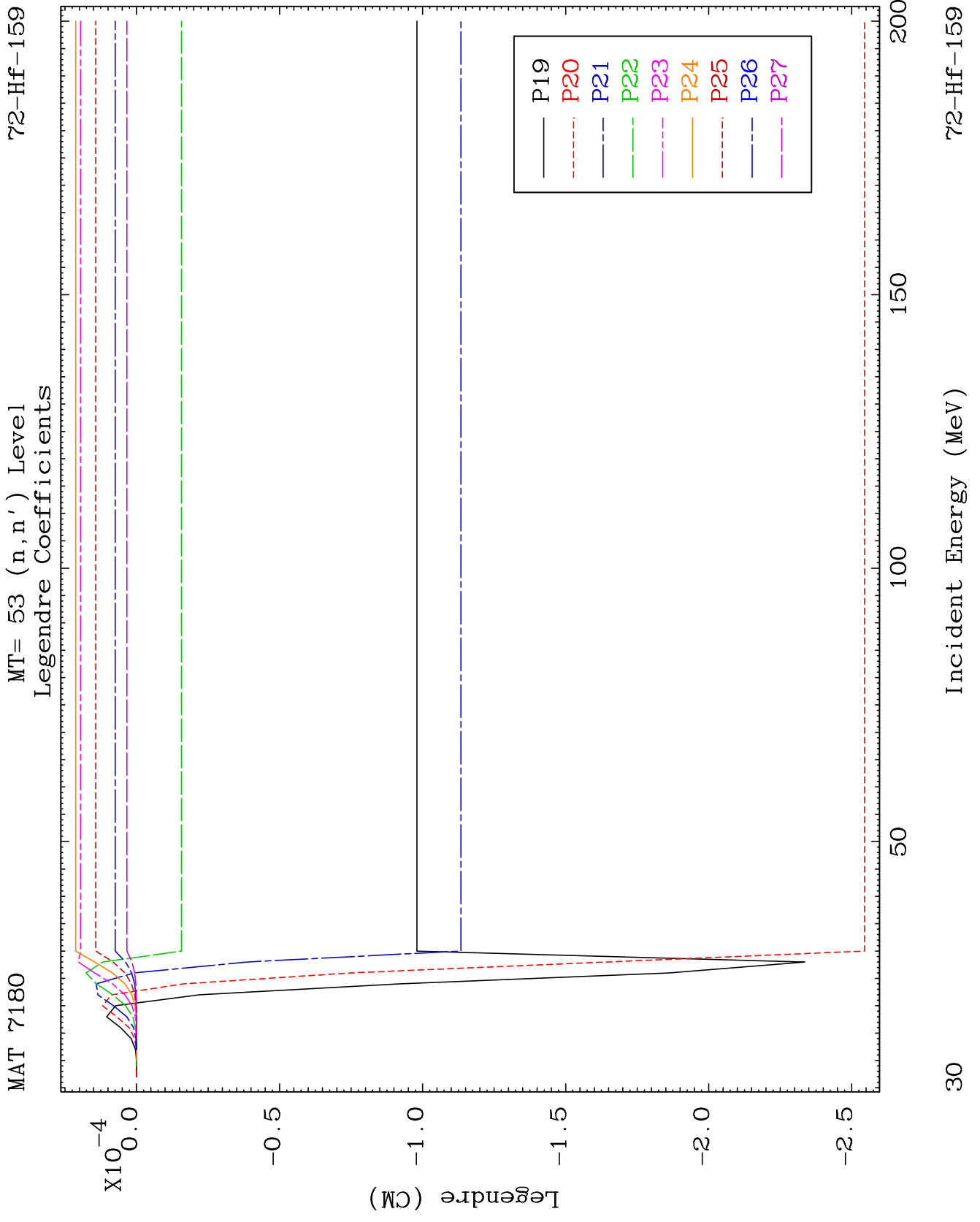
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29

Incident Energy (MeV)

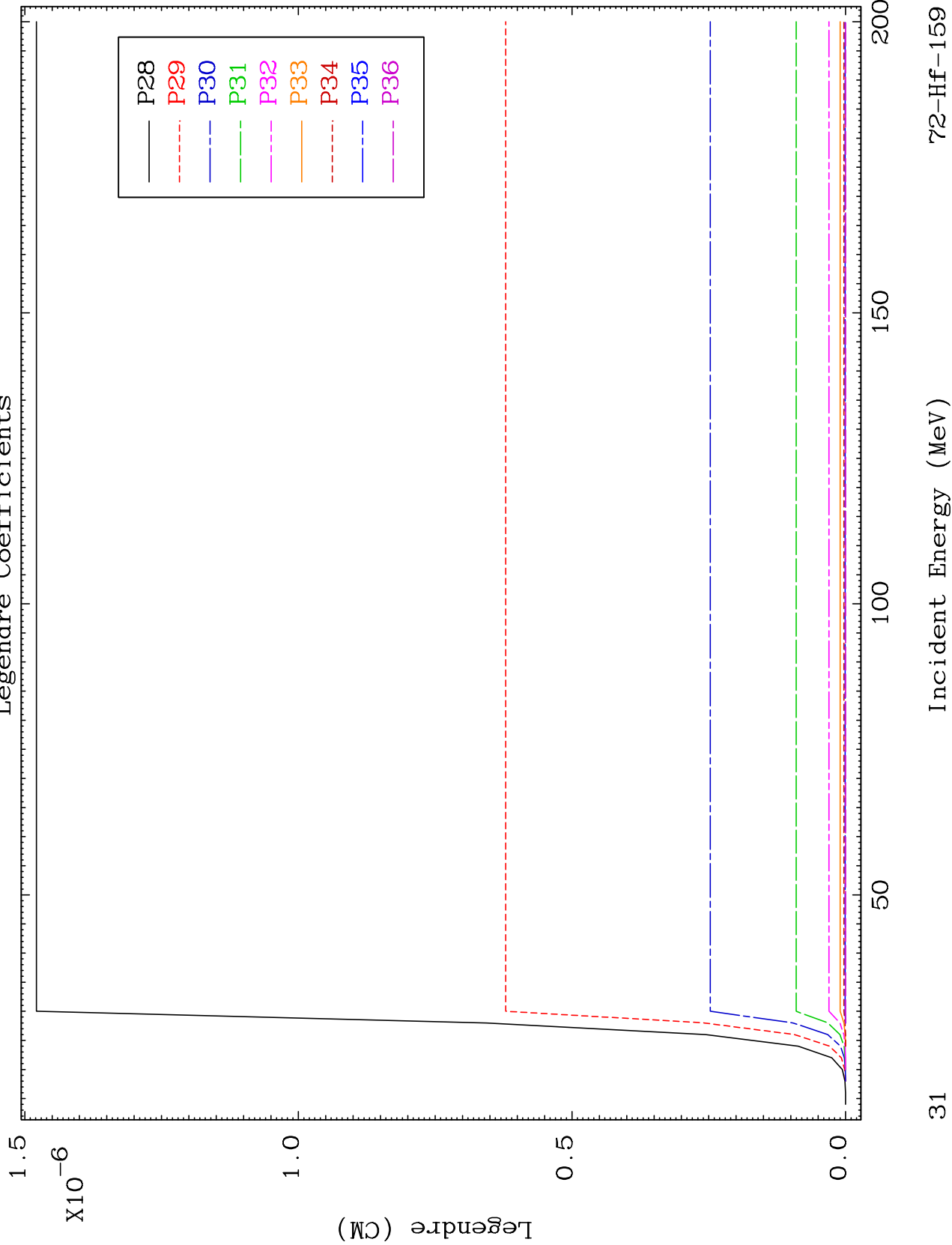
72-Hf-159



MAT 7180

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

72-Hf-159



31

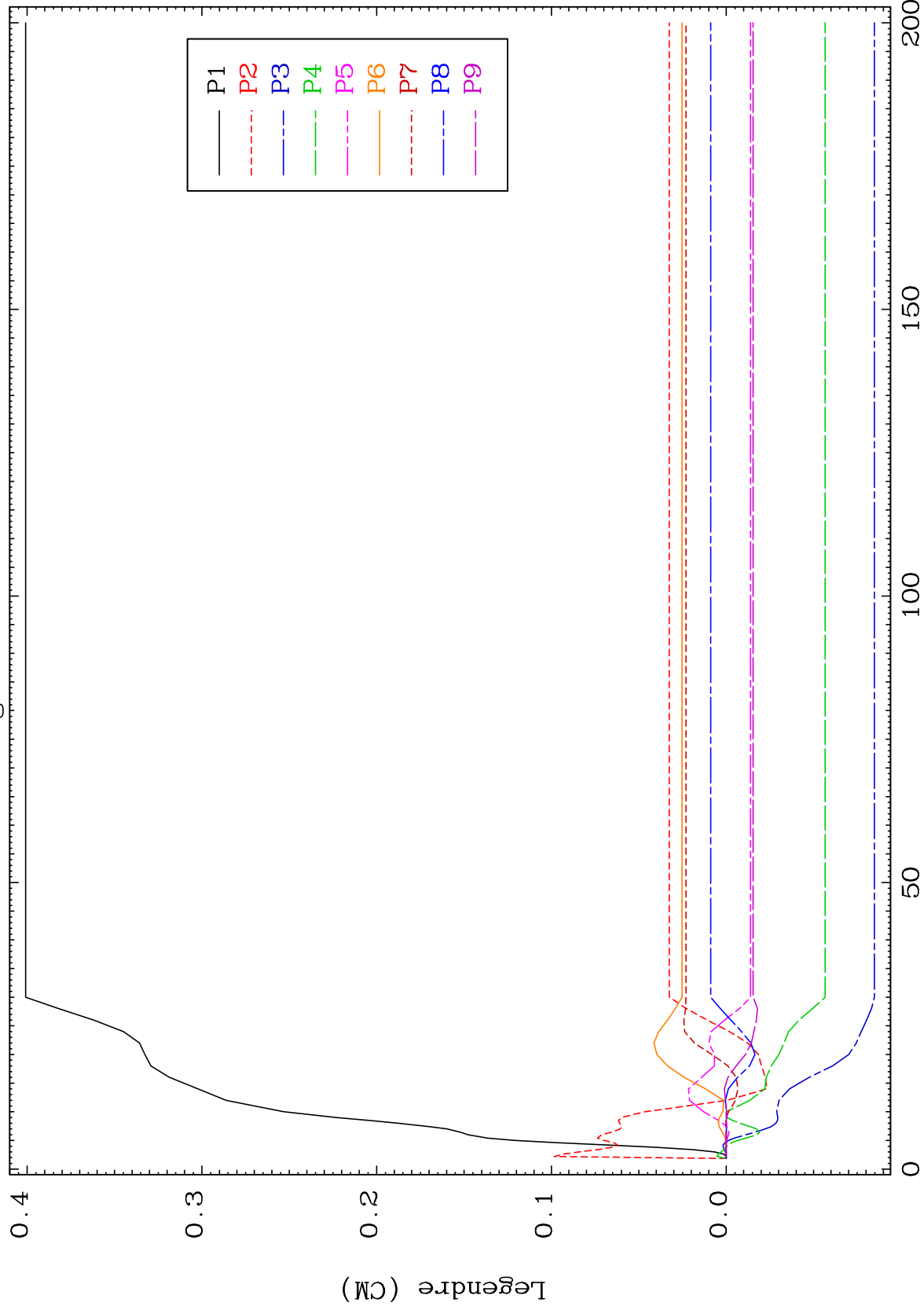
Incident Energy (MeV)

72-Hf-159

MAT 7180

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

72-Hf-159



32

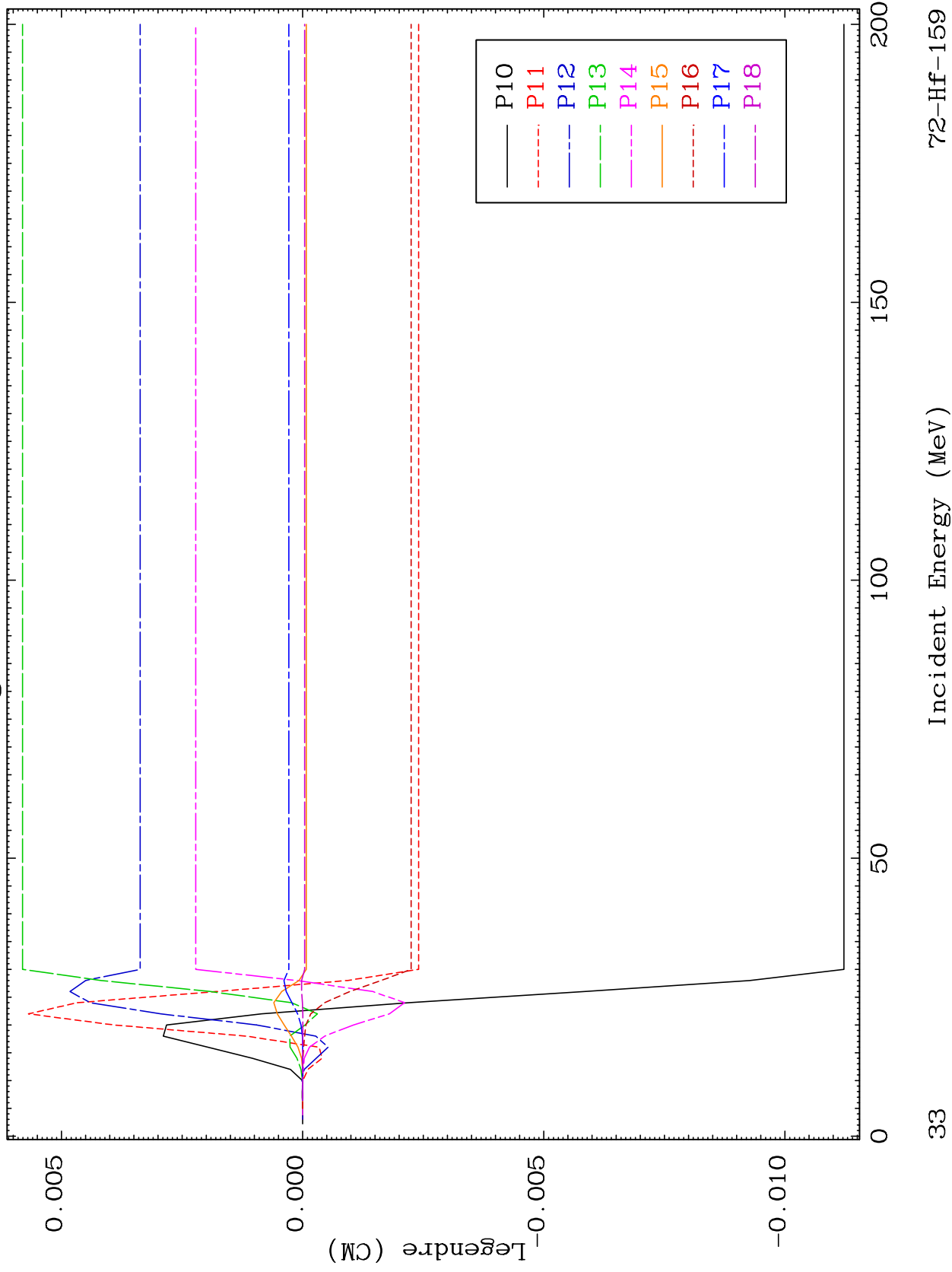
Incident Energy (MeV)

72-Hf-159

MAT 7180

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

72-Hf-159



33

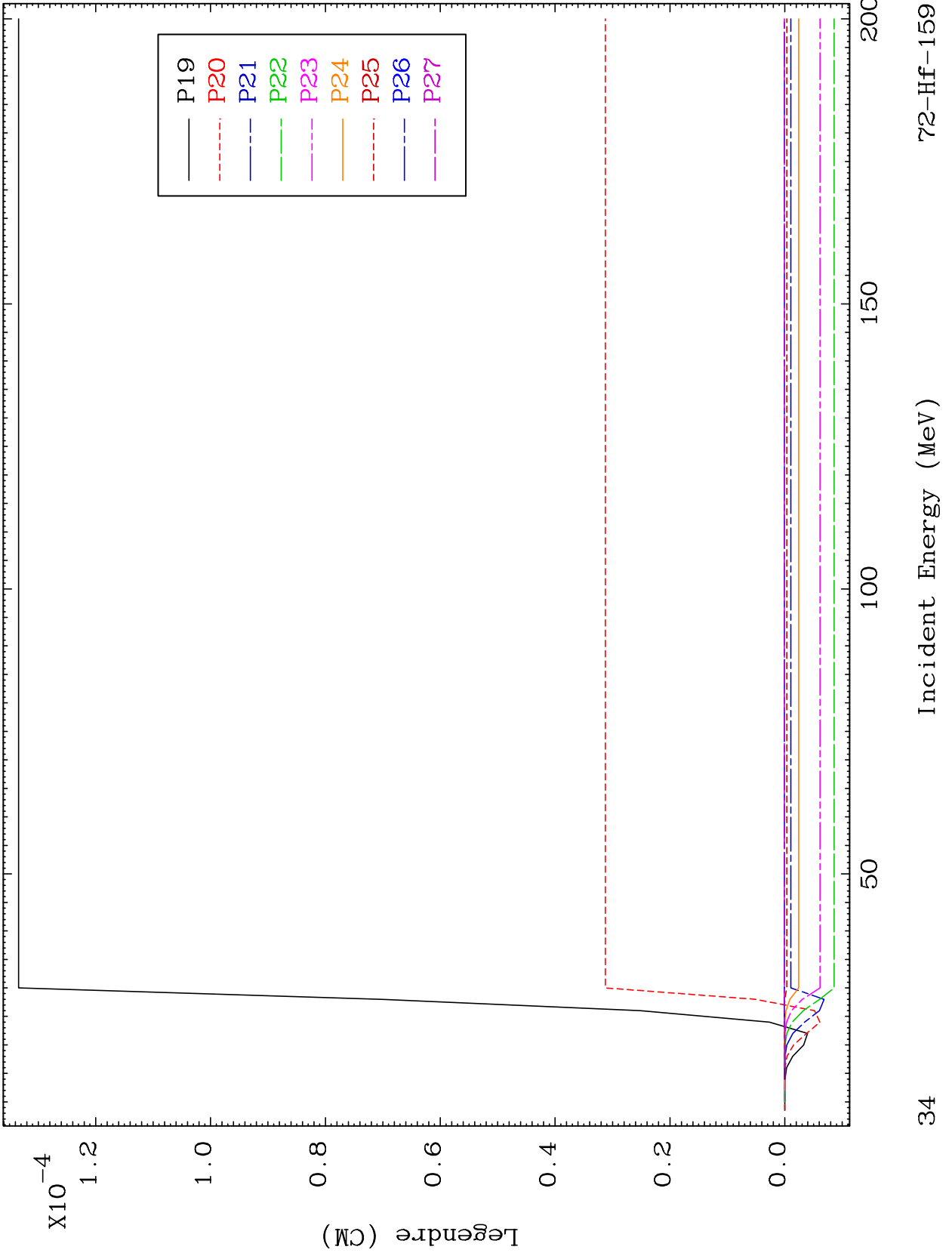
Incident Energy (MeV)

72-Hf-159

MAT 7180

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

72-Hf-159



34

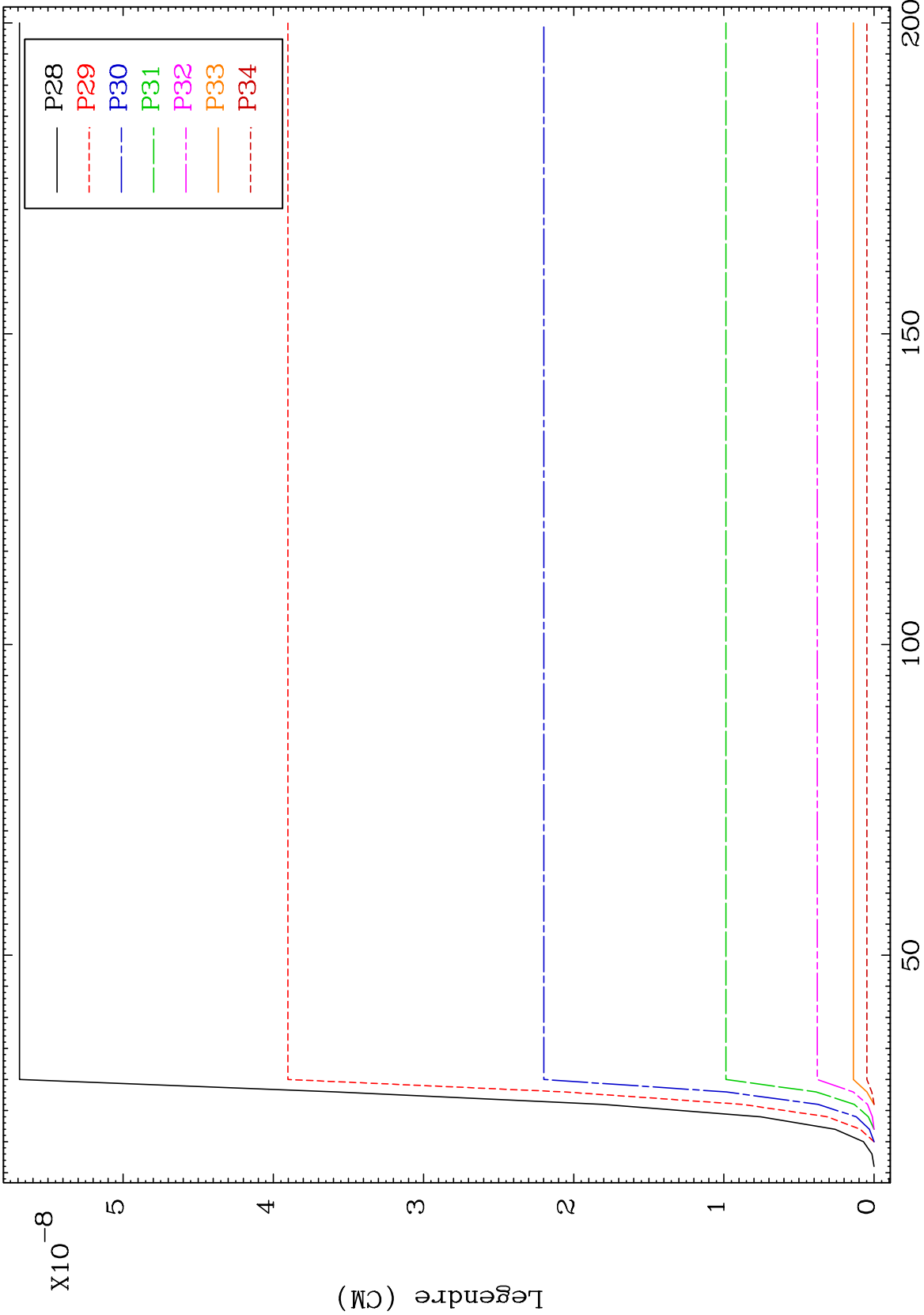
Incident Energy (MeV)

72-Hf-159

MAT 7180

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

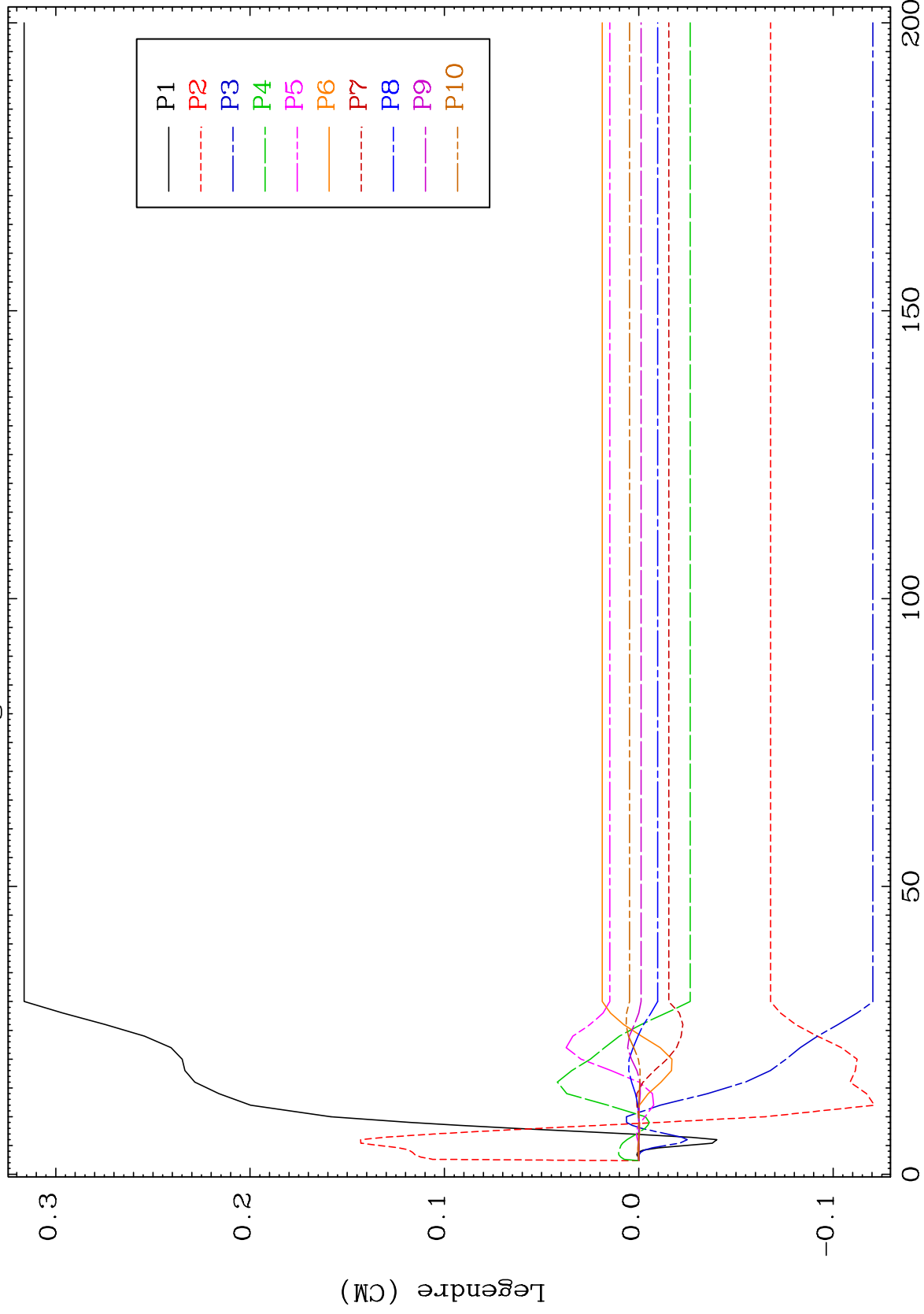
72-Hf-159



35

Incident Energy (MeV)

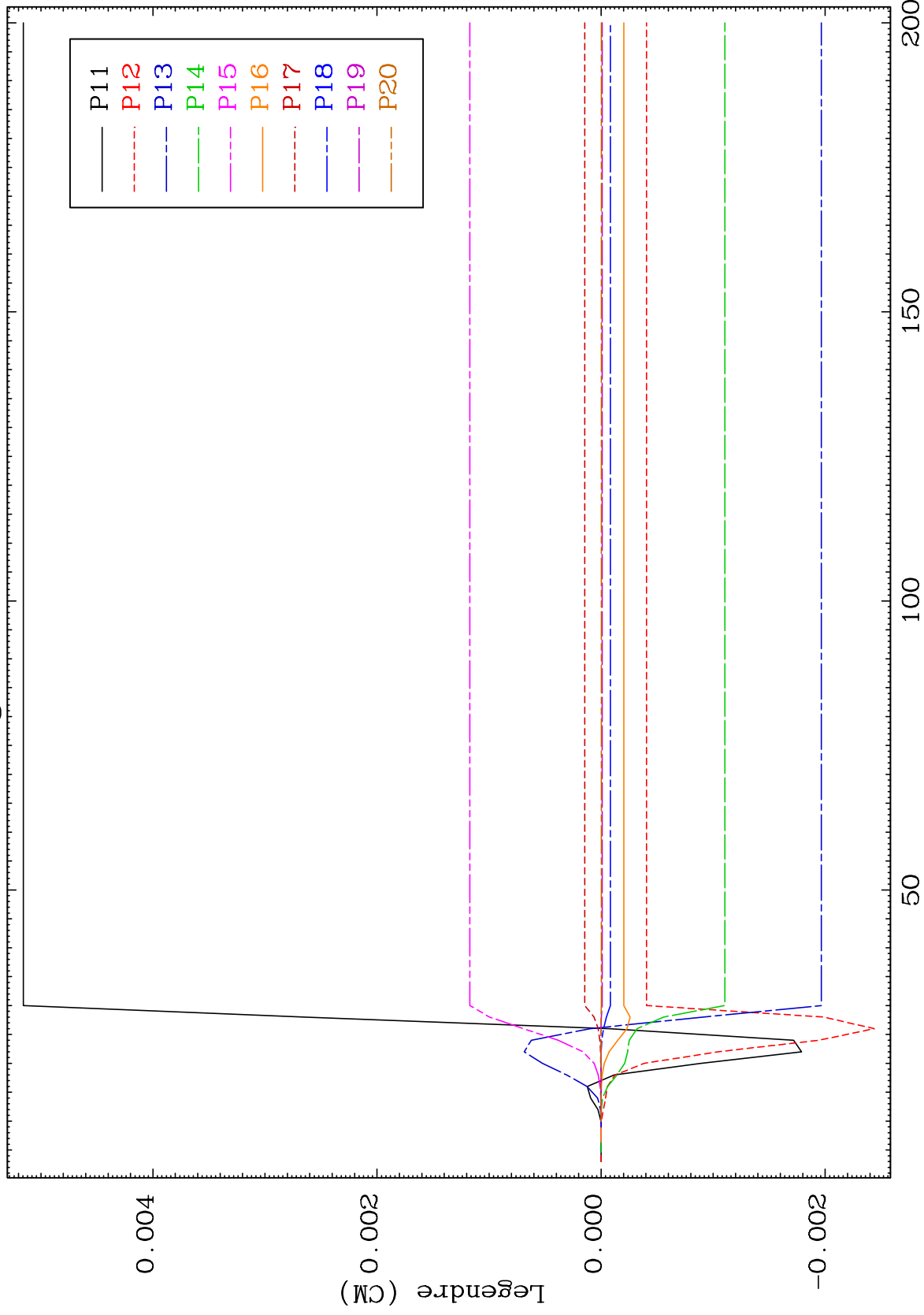
72-Hf-159



MAT 7180

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

72-Hf-159



37

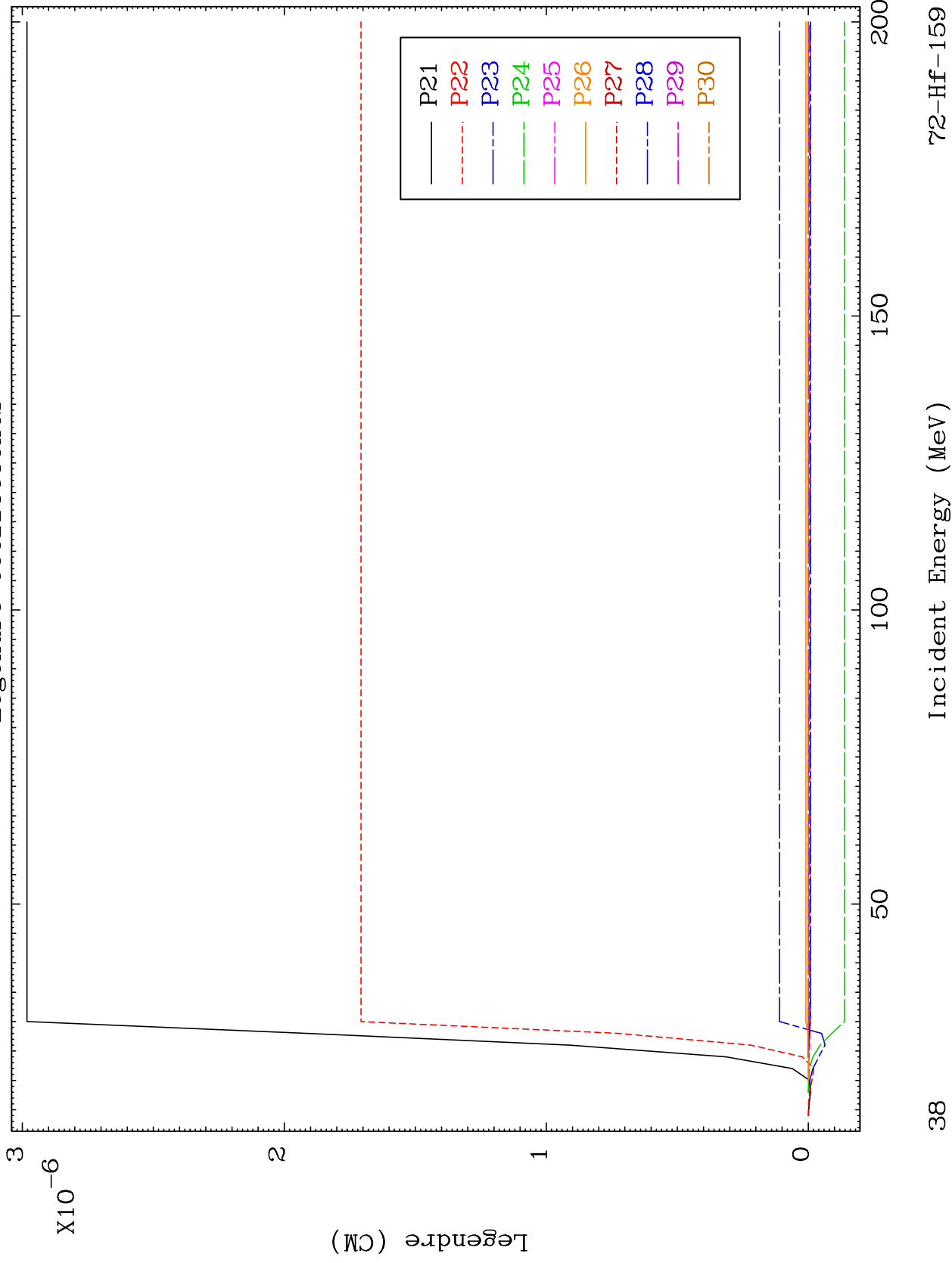
Incident Energy (MeV)

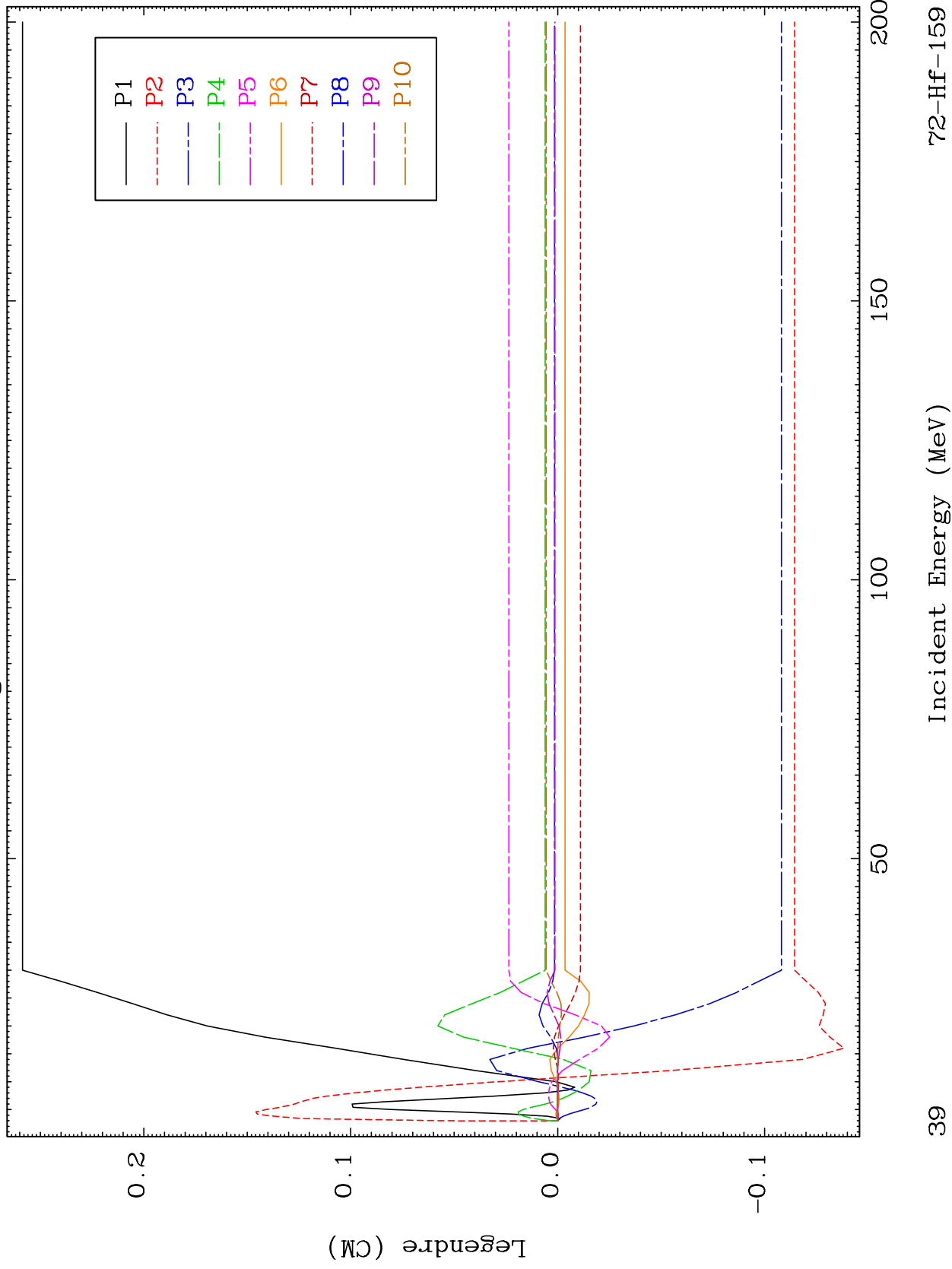
72-Hf-159

MAT 7180

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

72-Hf-159

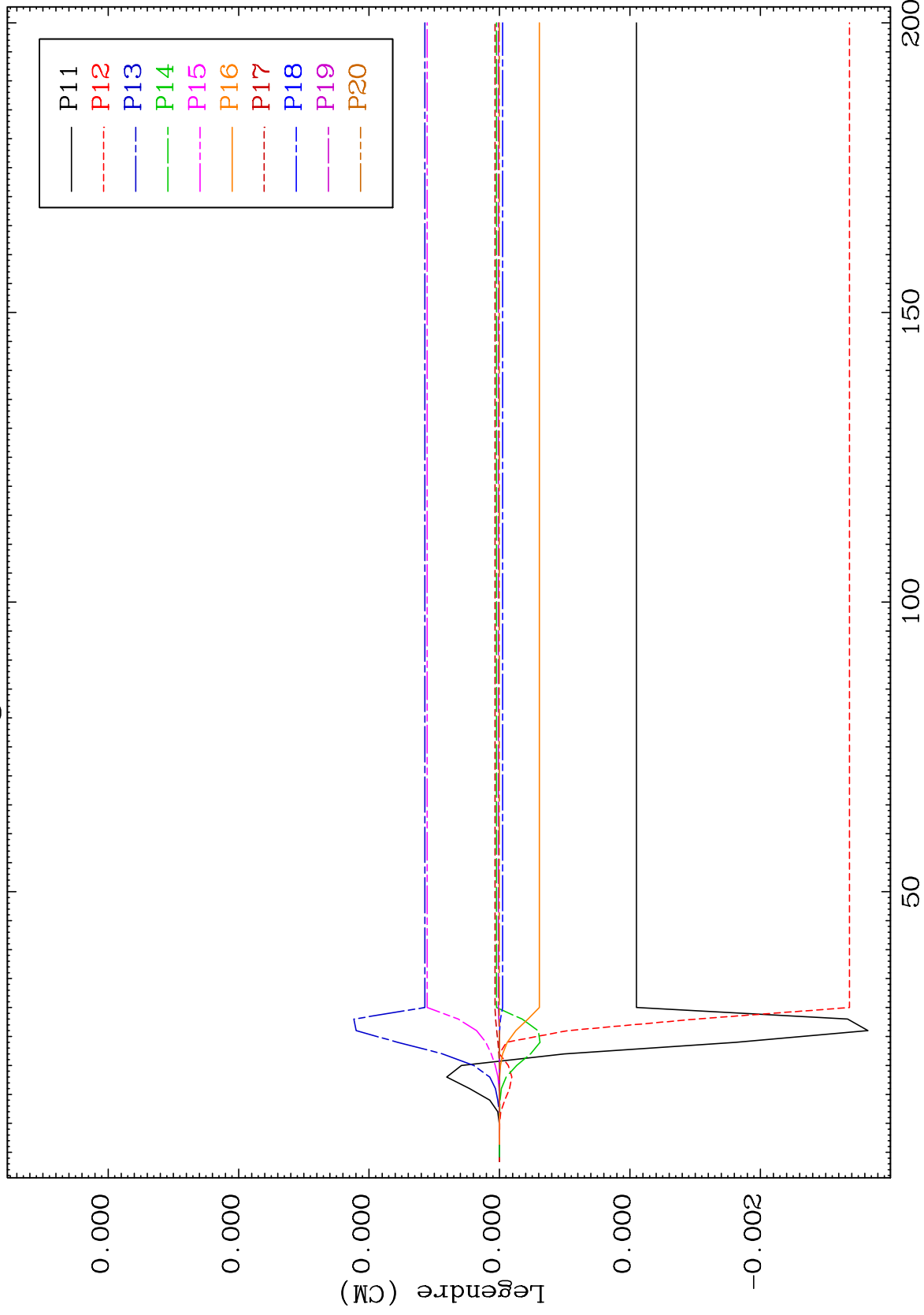




MAT 7180

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

72-Hf-159



40

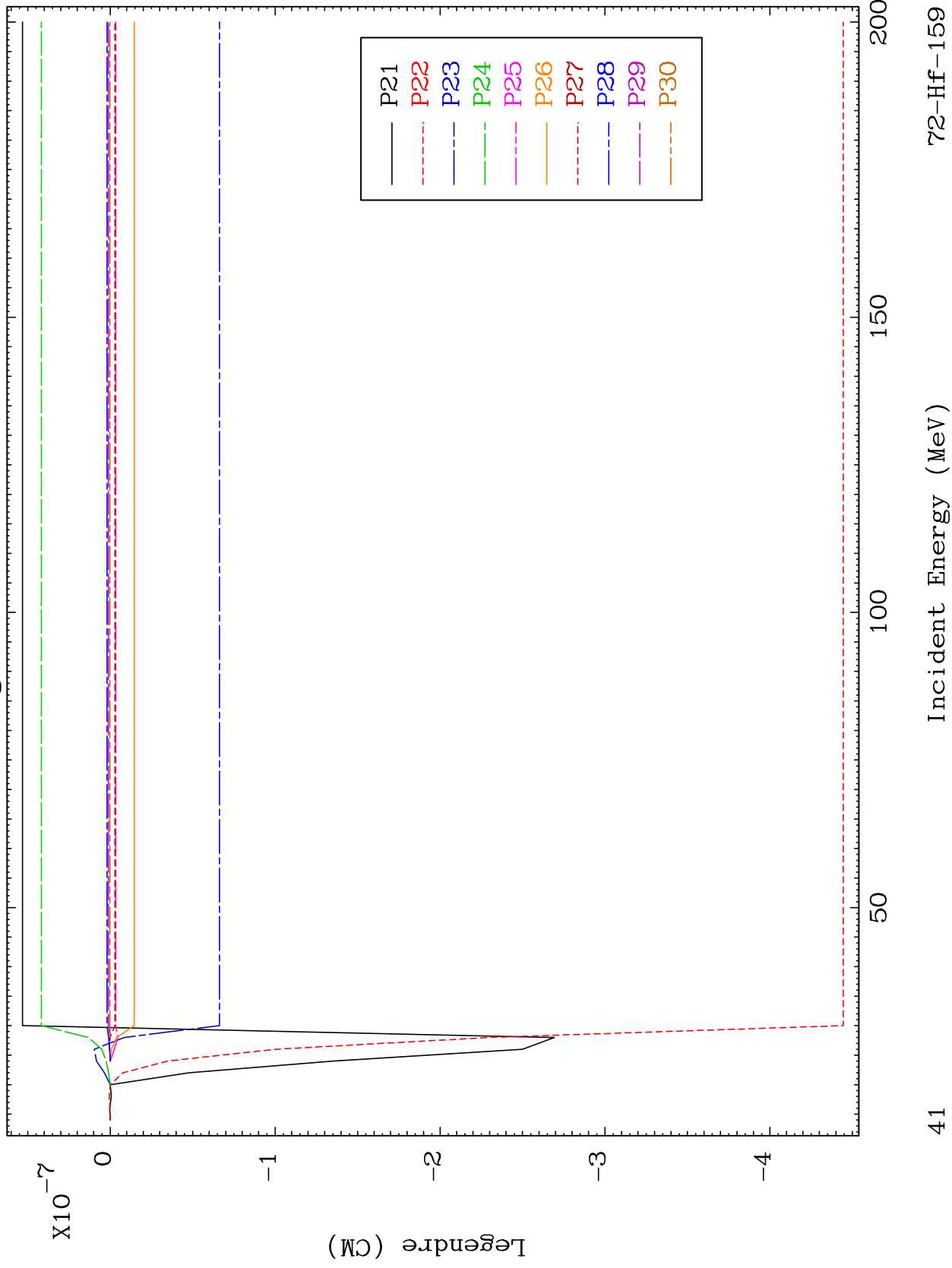
Incident Energy (MeV)

72-Hf-159

MAT 7180

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

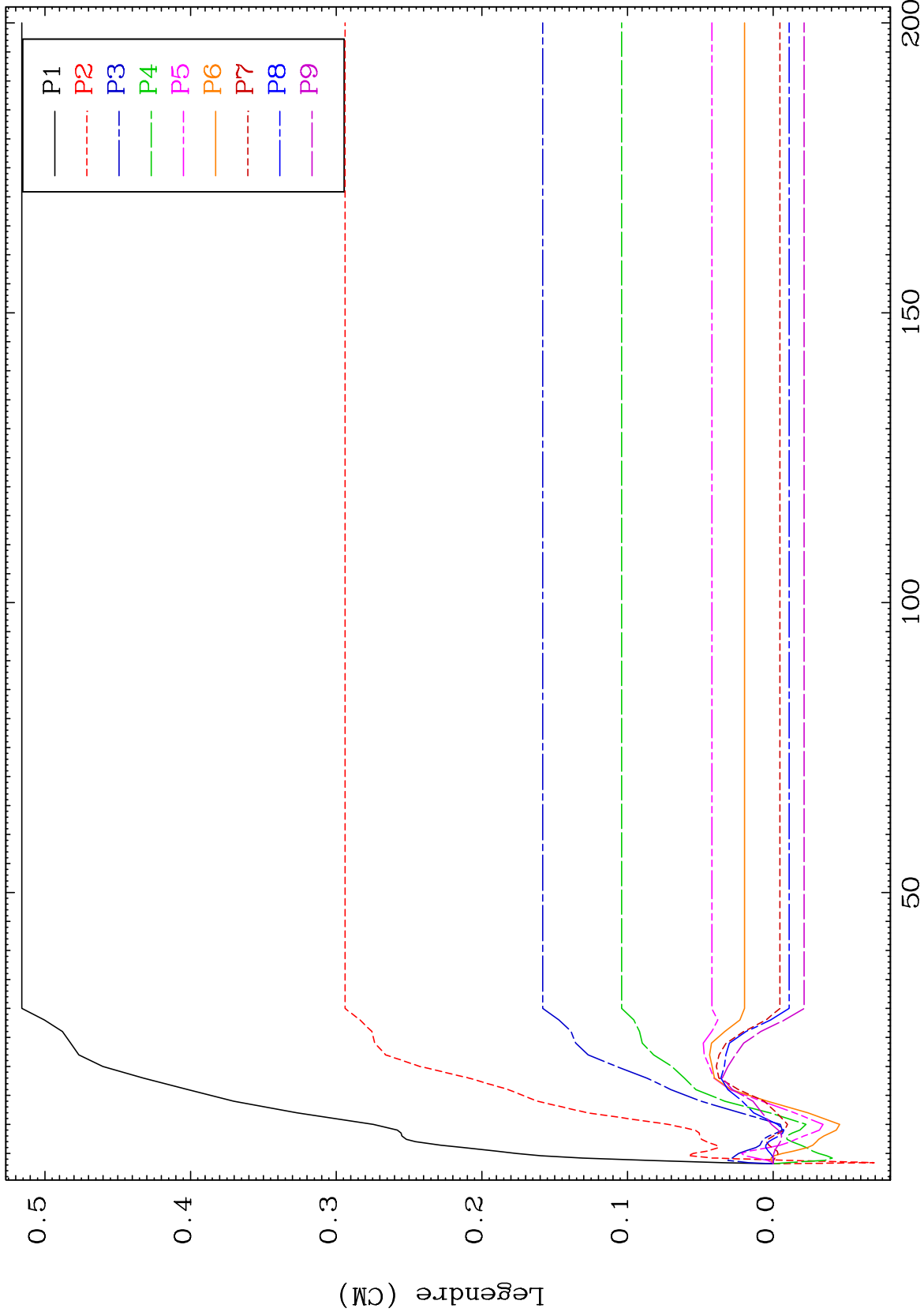
72-Hf-159



41

Incident Energy (MeV)

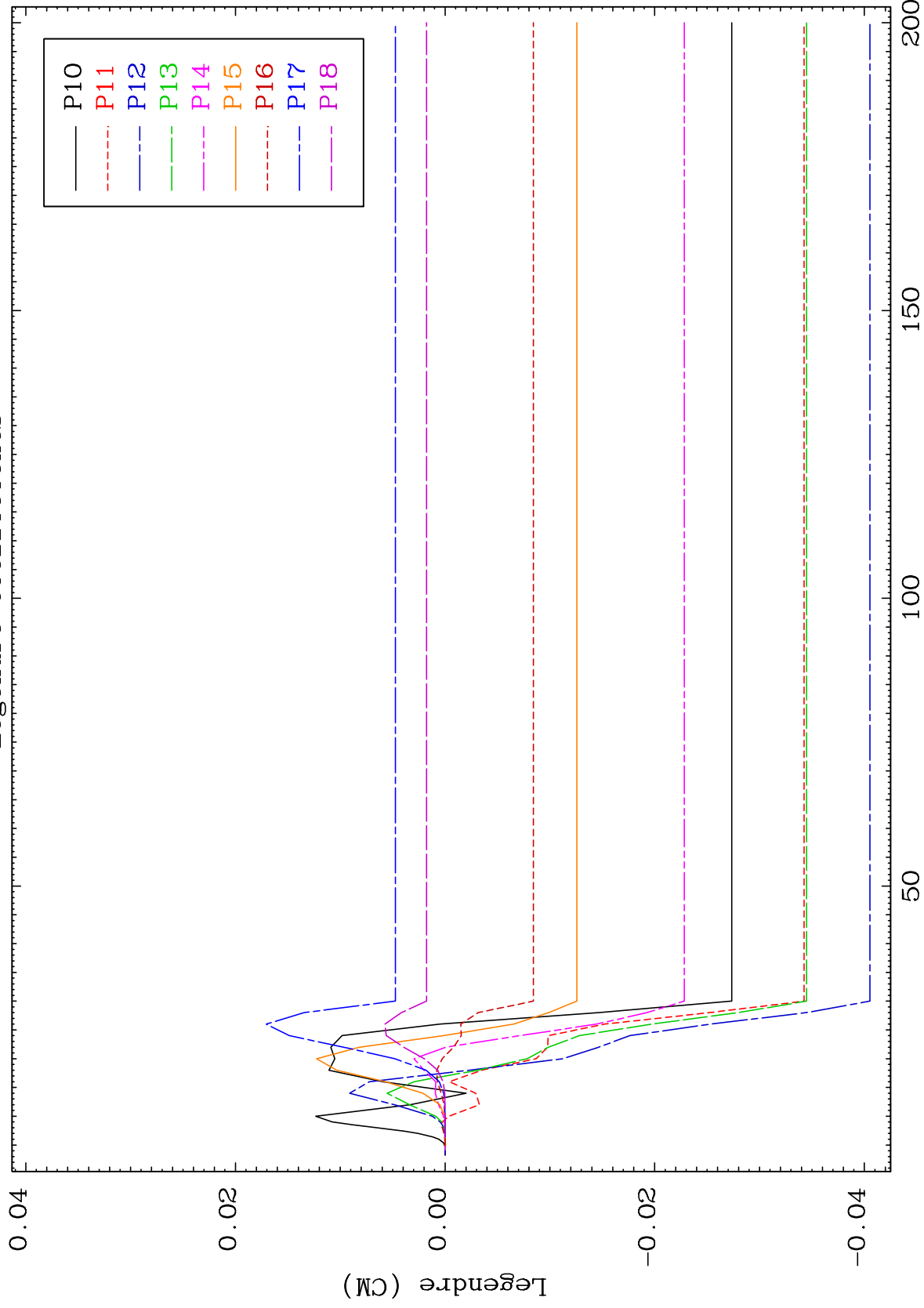
72-Hf-159



MAT 7180

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

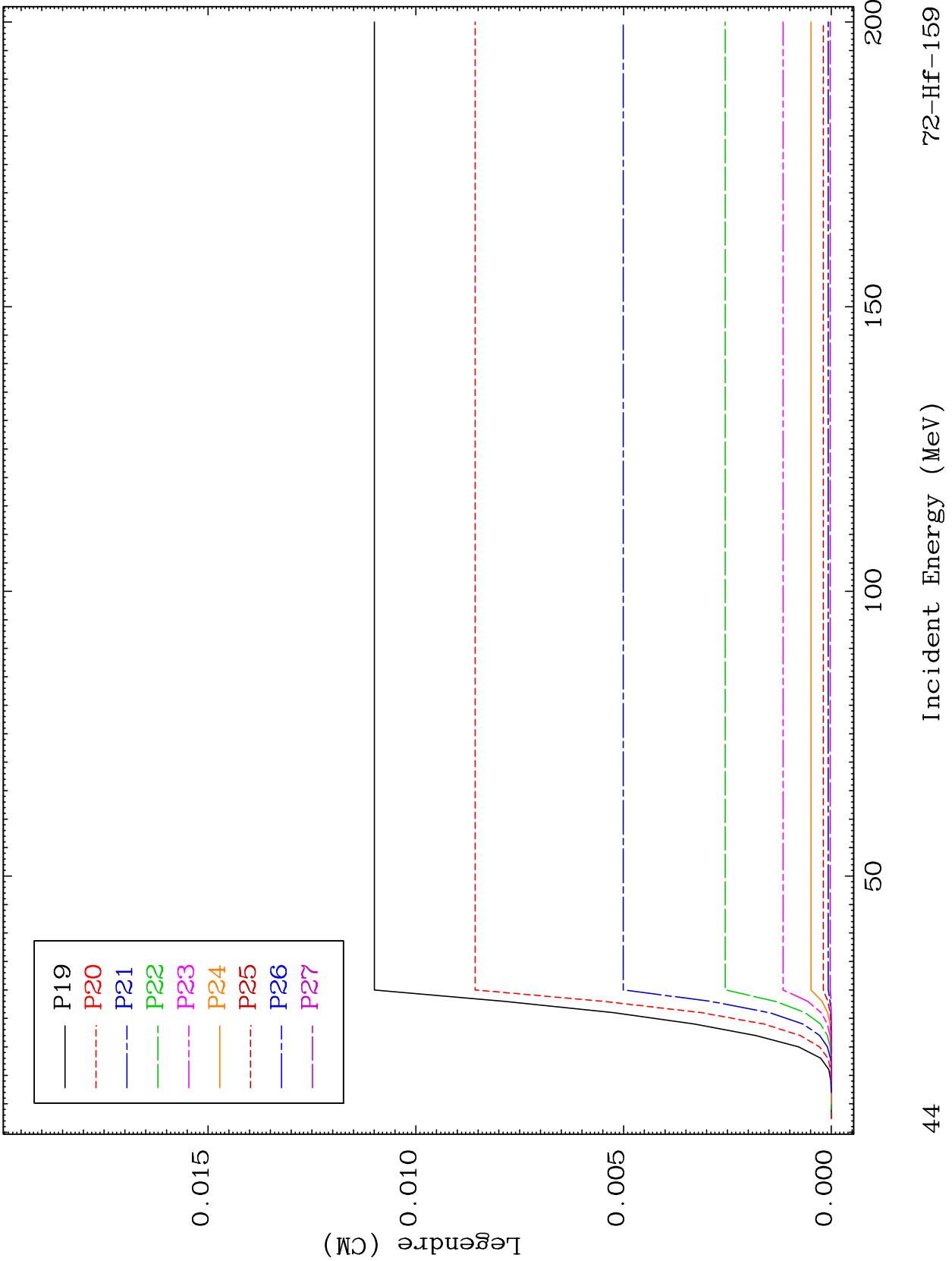
72-Hf-159



43

Incident Energy (MeV)

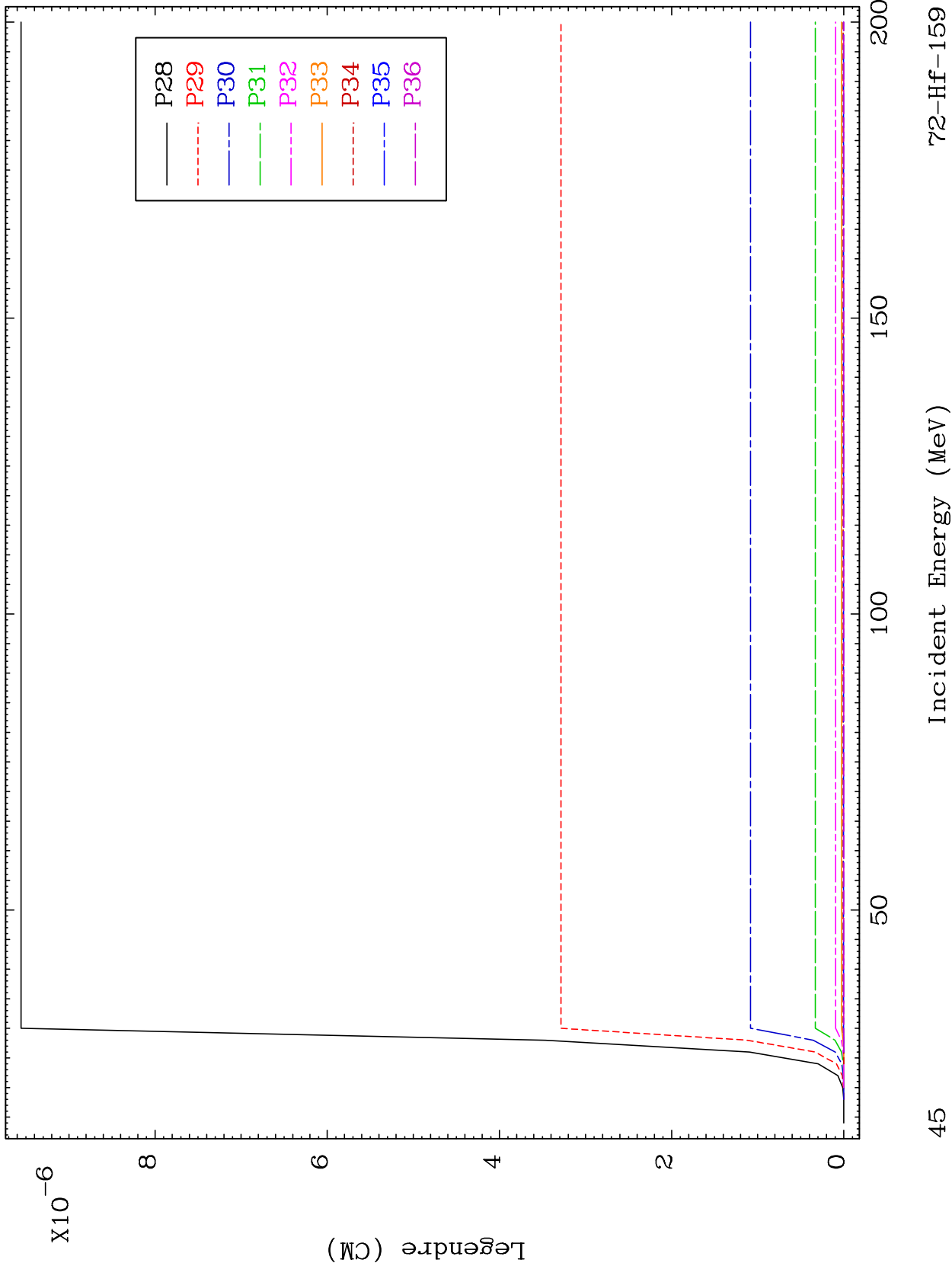
72-Hf-159



MAT 7180

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

72-Hf-159



72-Hf-159

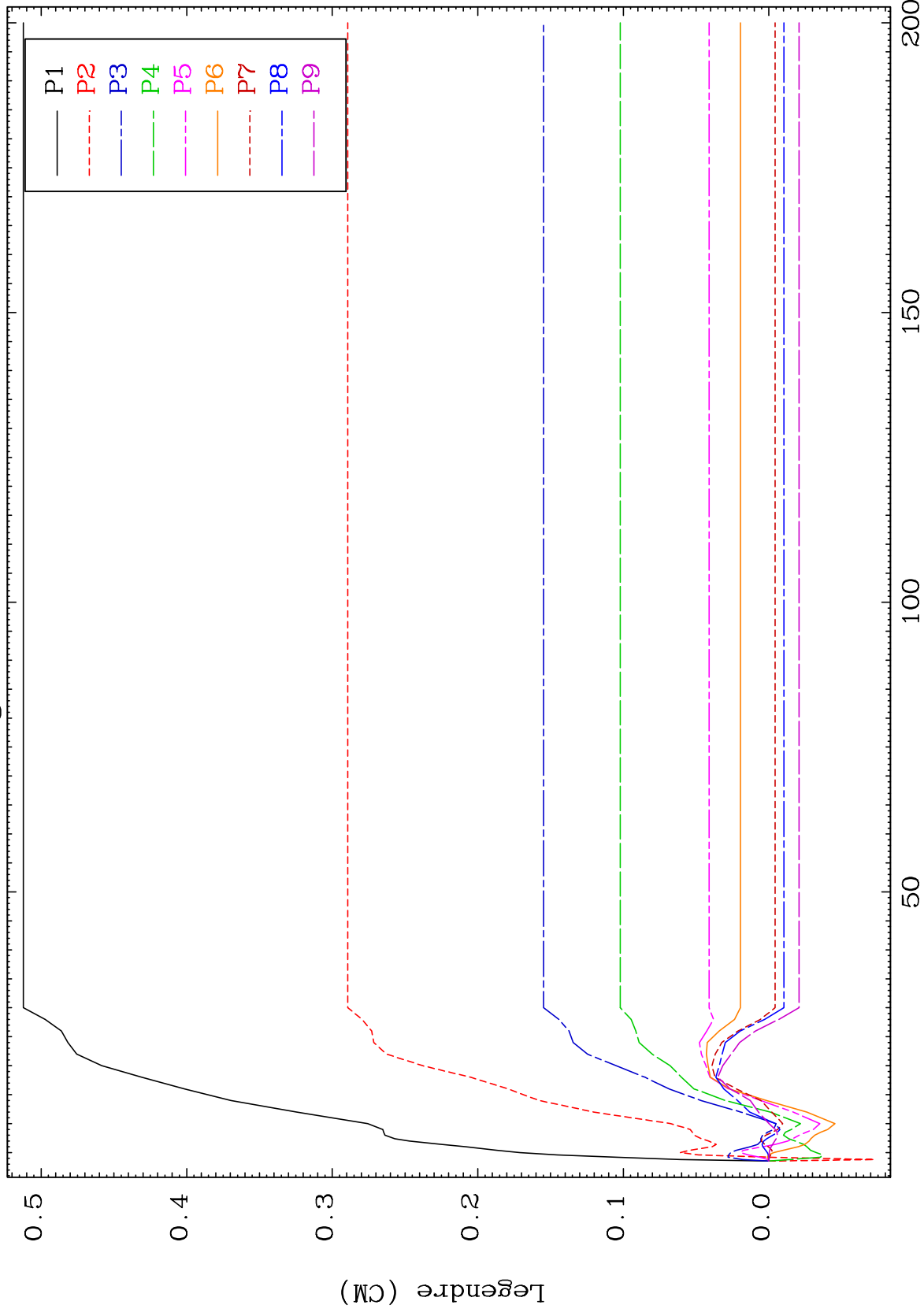
Incident Energy (MeV)

45

MAT 7180

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

72-Hf-159



46

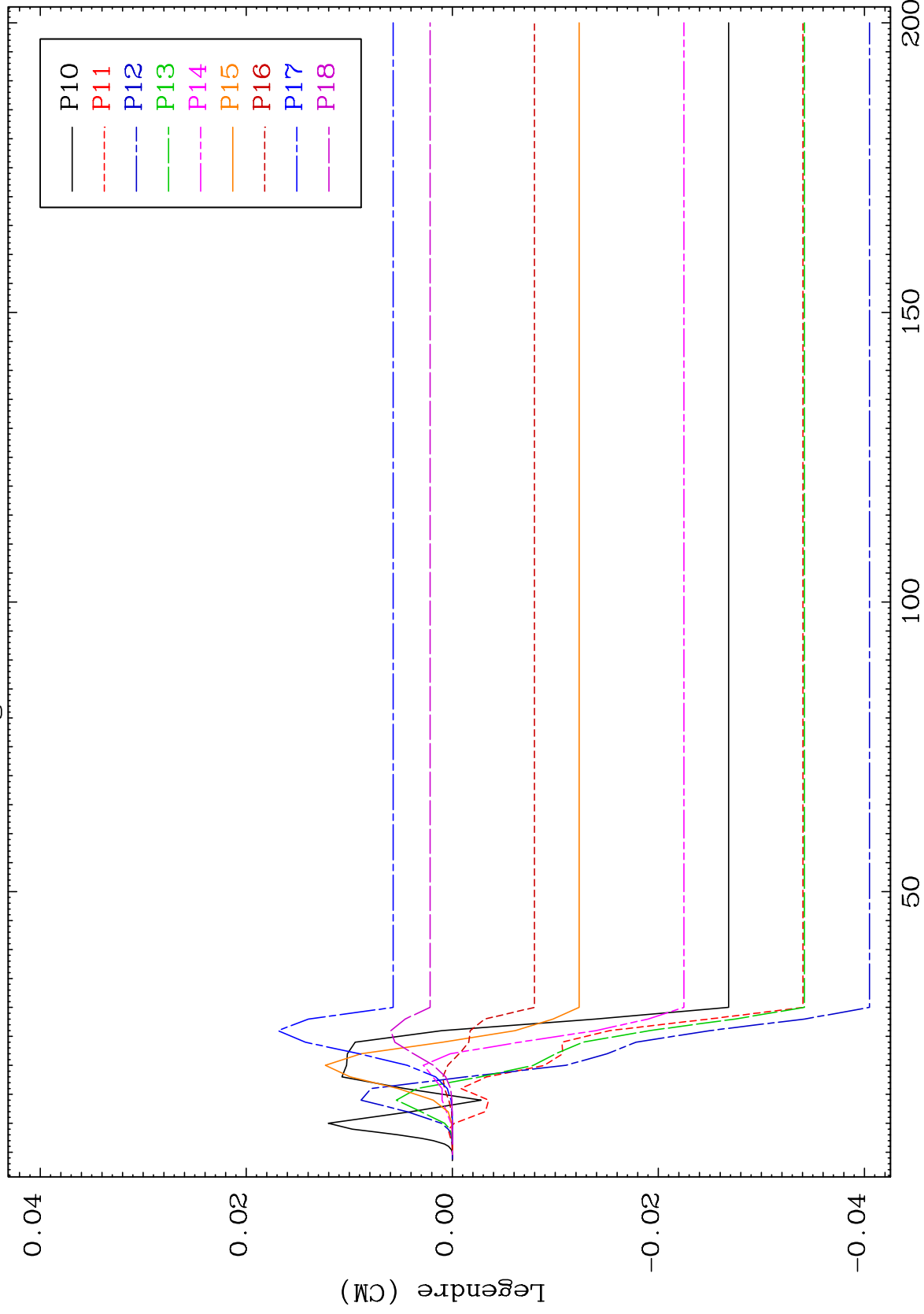
Incident Energy (MeV)

72-Hf-159

MAT 7180

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

72-Hf-159



47

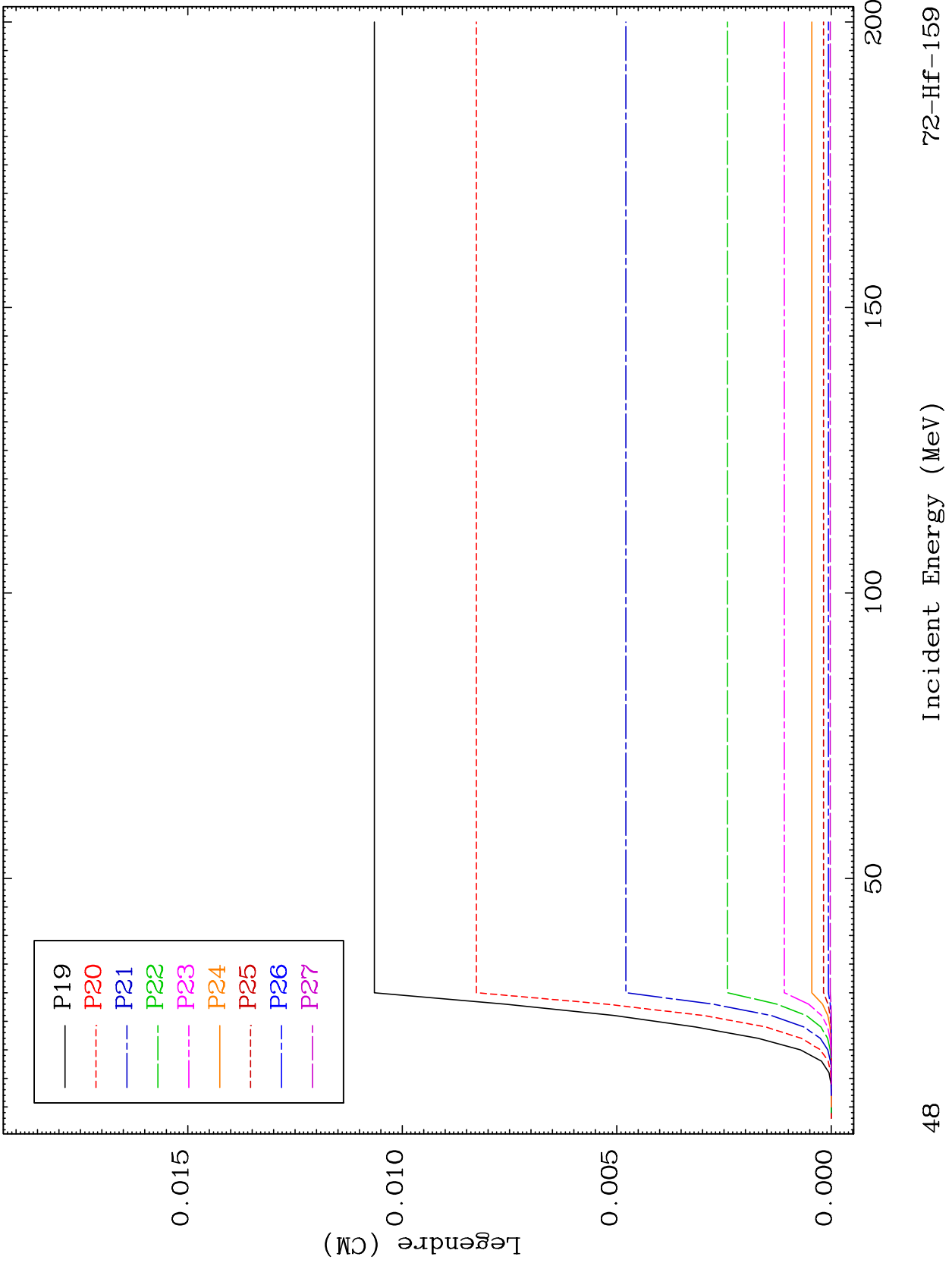
Incident Energy (MeV)

72-Hf-159

MAT 7180

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

72-Hf-159



48

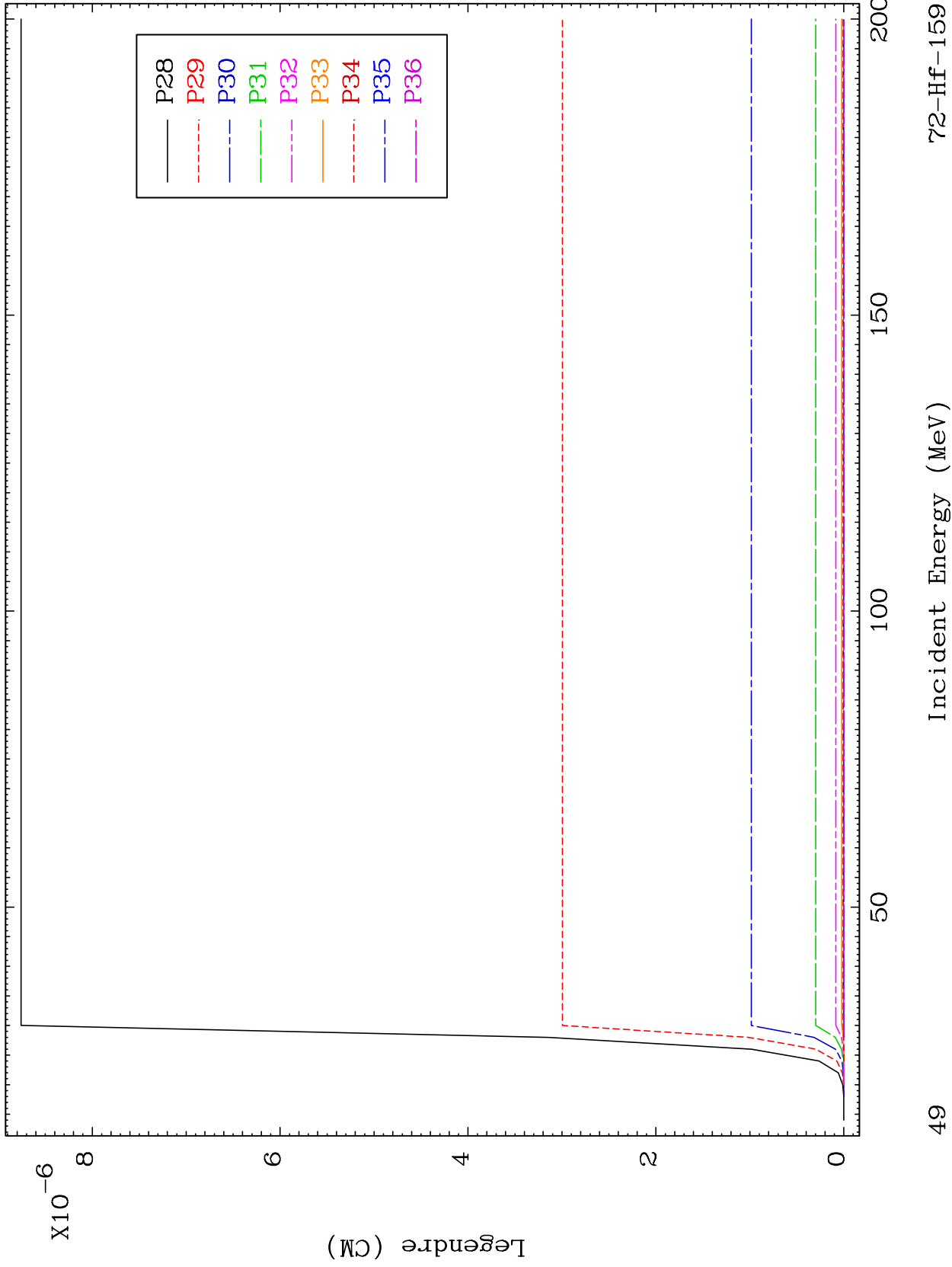
Incident Energy (MeV)

72-Hf-159

MAT 7180

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

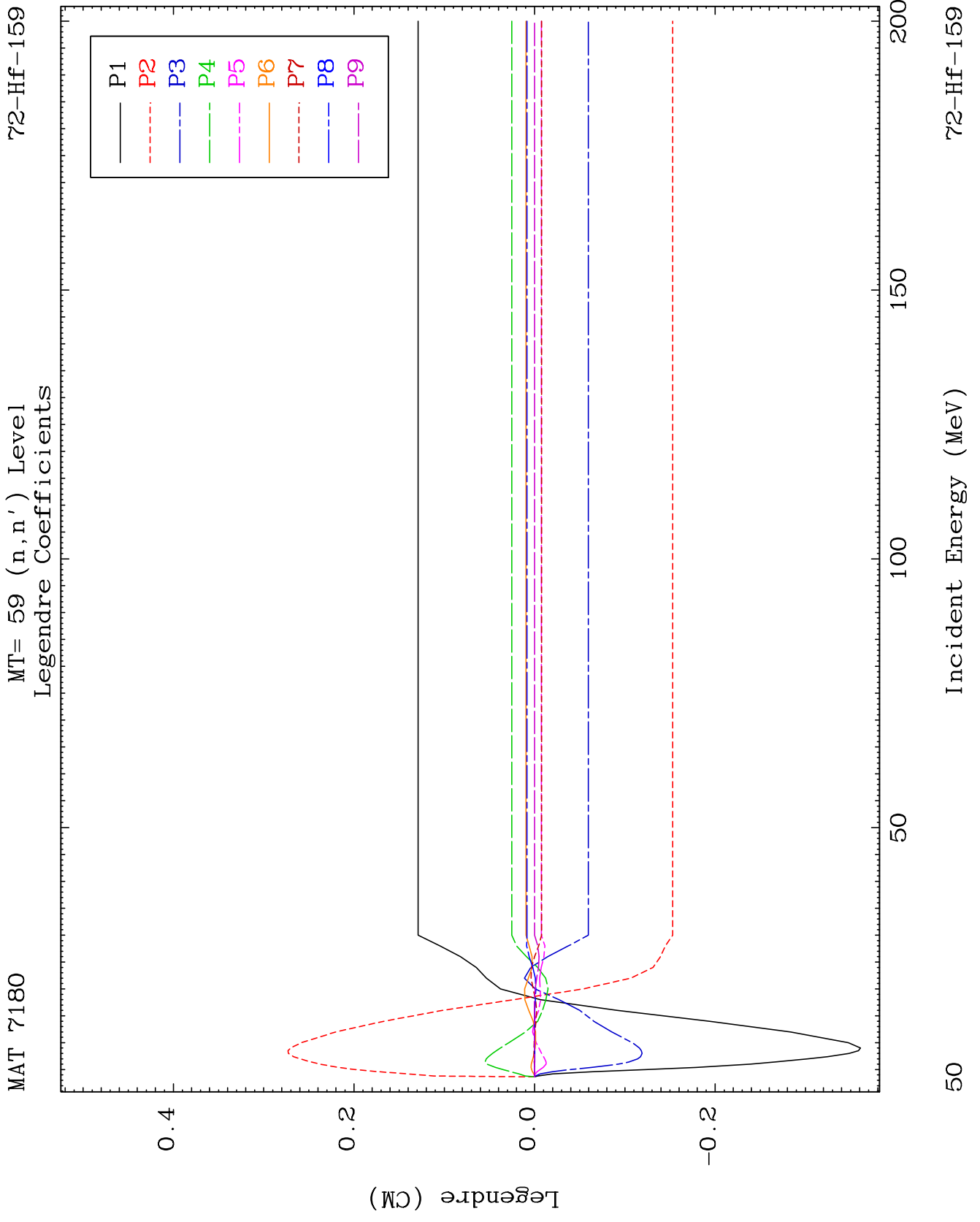
72-Hf-159



49

Incident Energy (MeV)

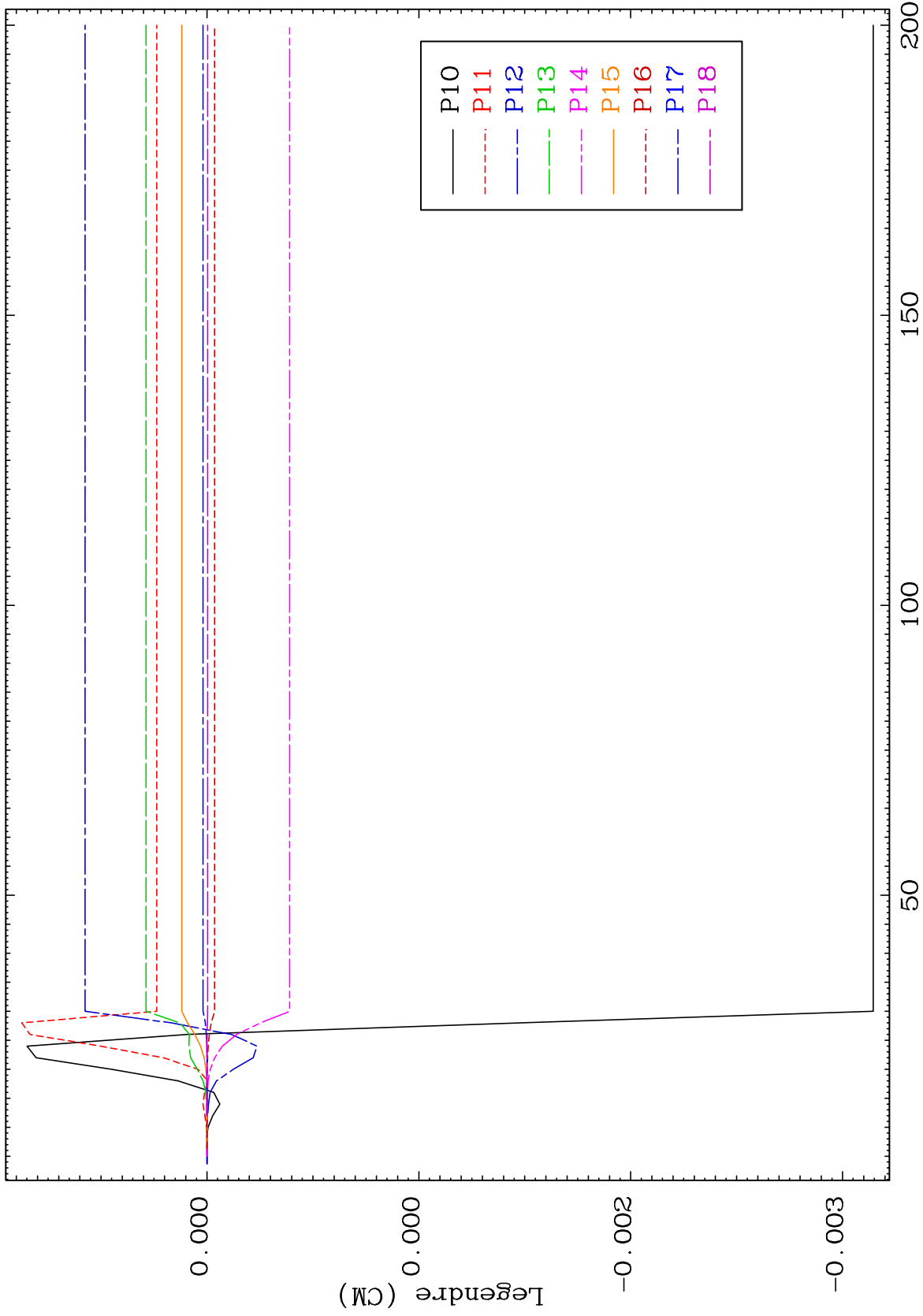
72-Hf-159



MAT 7180

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

72-Hf-159



51

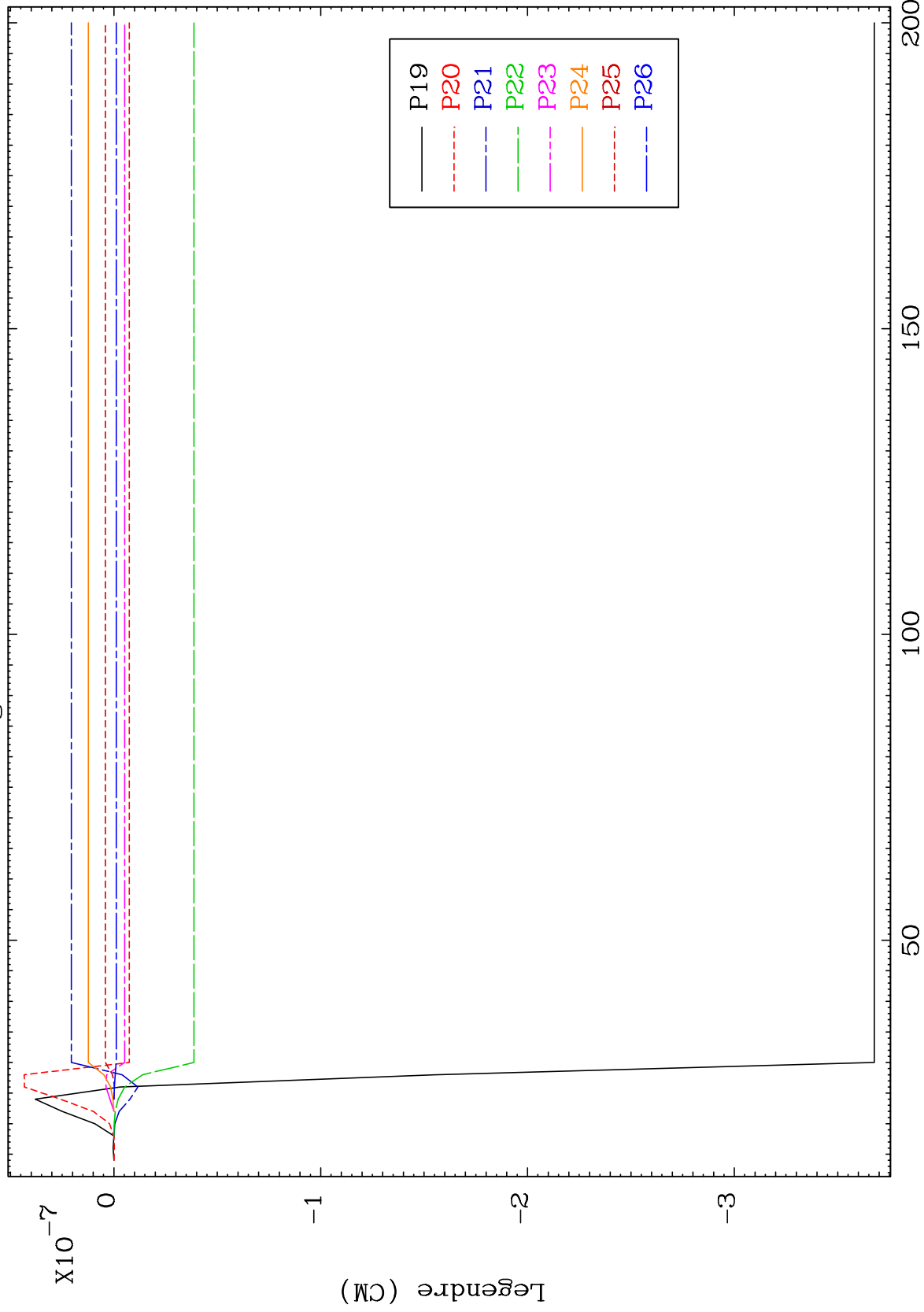
Incident Energy (MeV)

72-Hf-159

MAT 7180

72-Hf-159

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



52

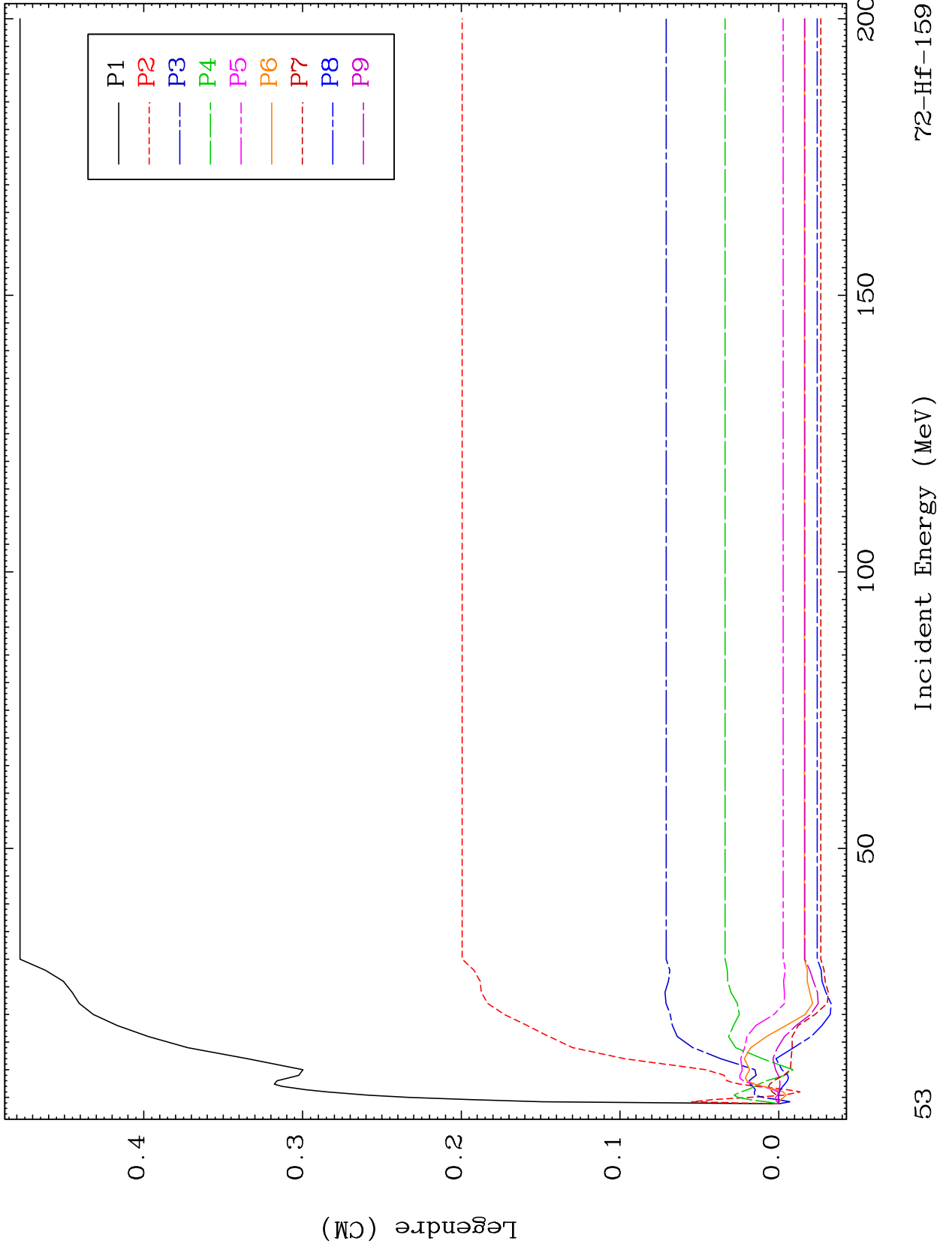
Incident Energy (MeV)

72-Hf-159

MAT 7180

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

72-Hf-159



53

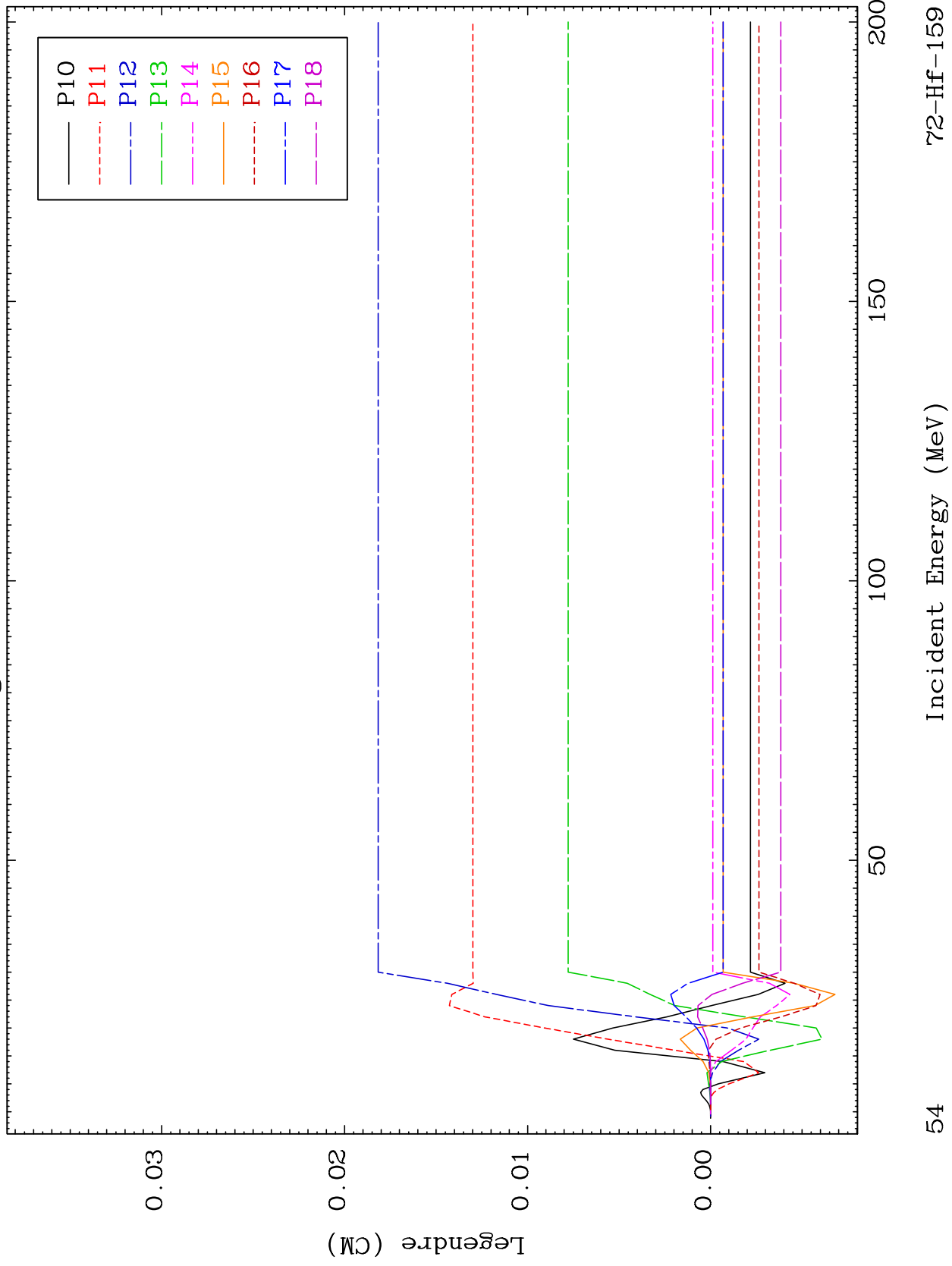
Incident Energy (MeV)

72-Hf-159

MAT 7180

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

72-Hf-159



54

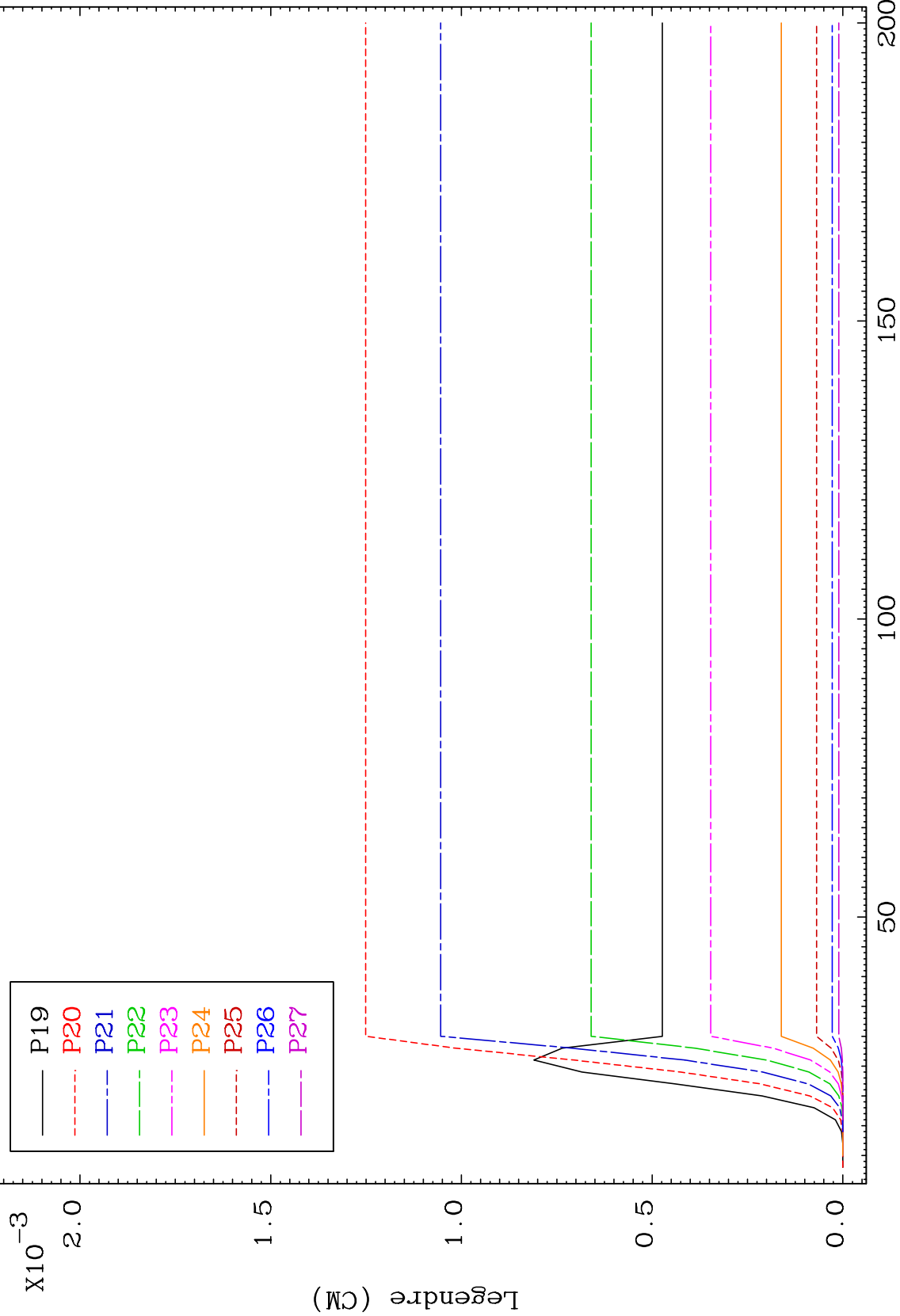
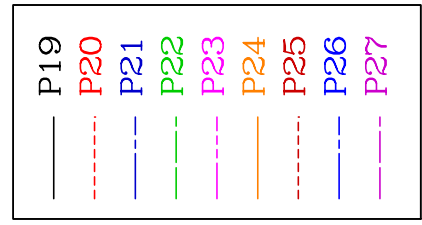
Incident Energy (MeV)

72-Hf-159

MAT 7180

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

72-Hf-159



55

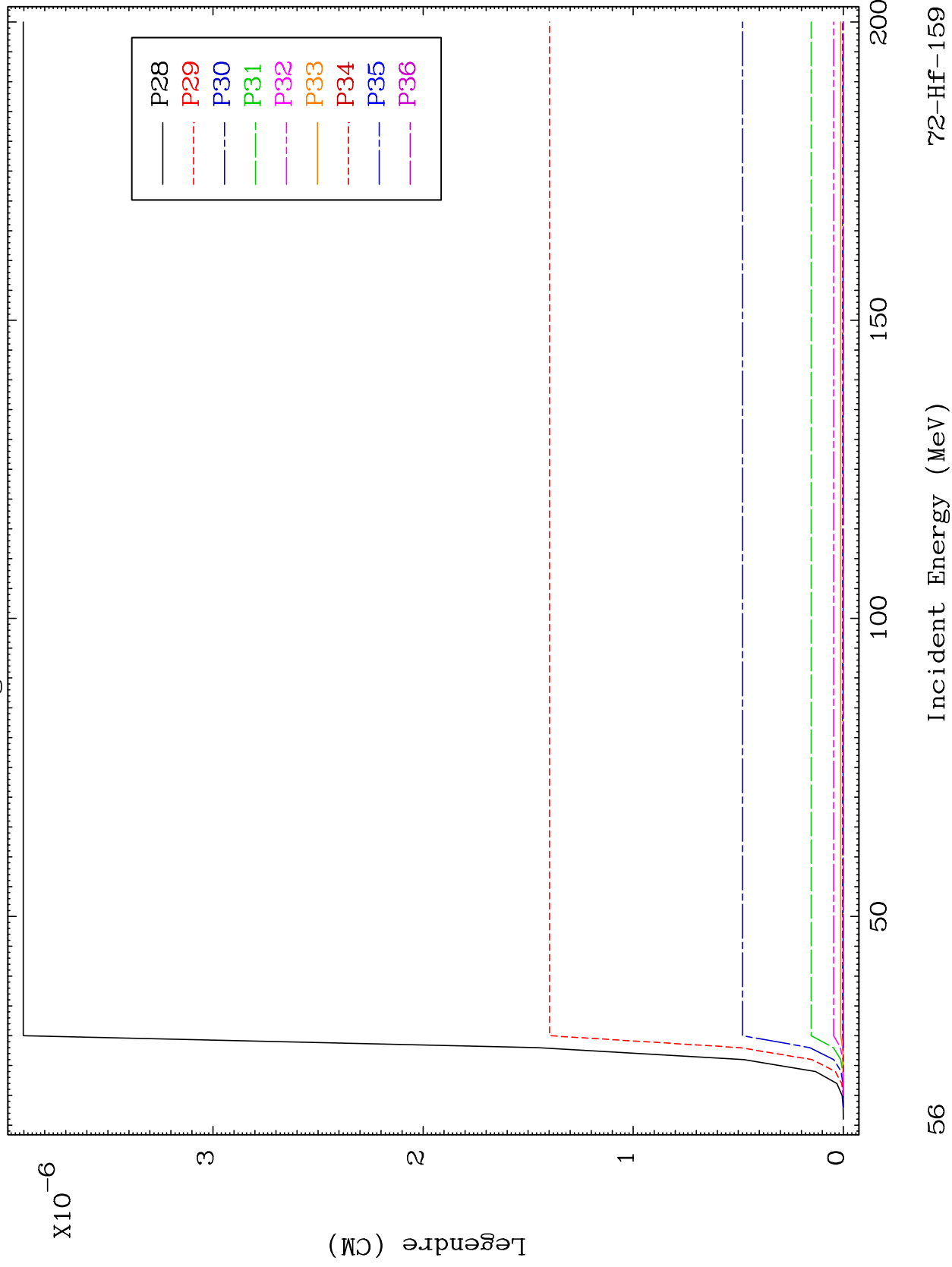
Incident Energy (MeV)

72-Hf-159

MAT 7180

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

72-Hf-159



56

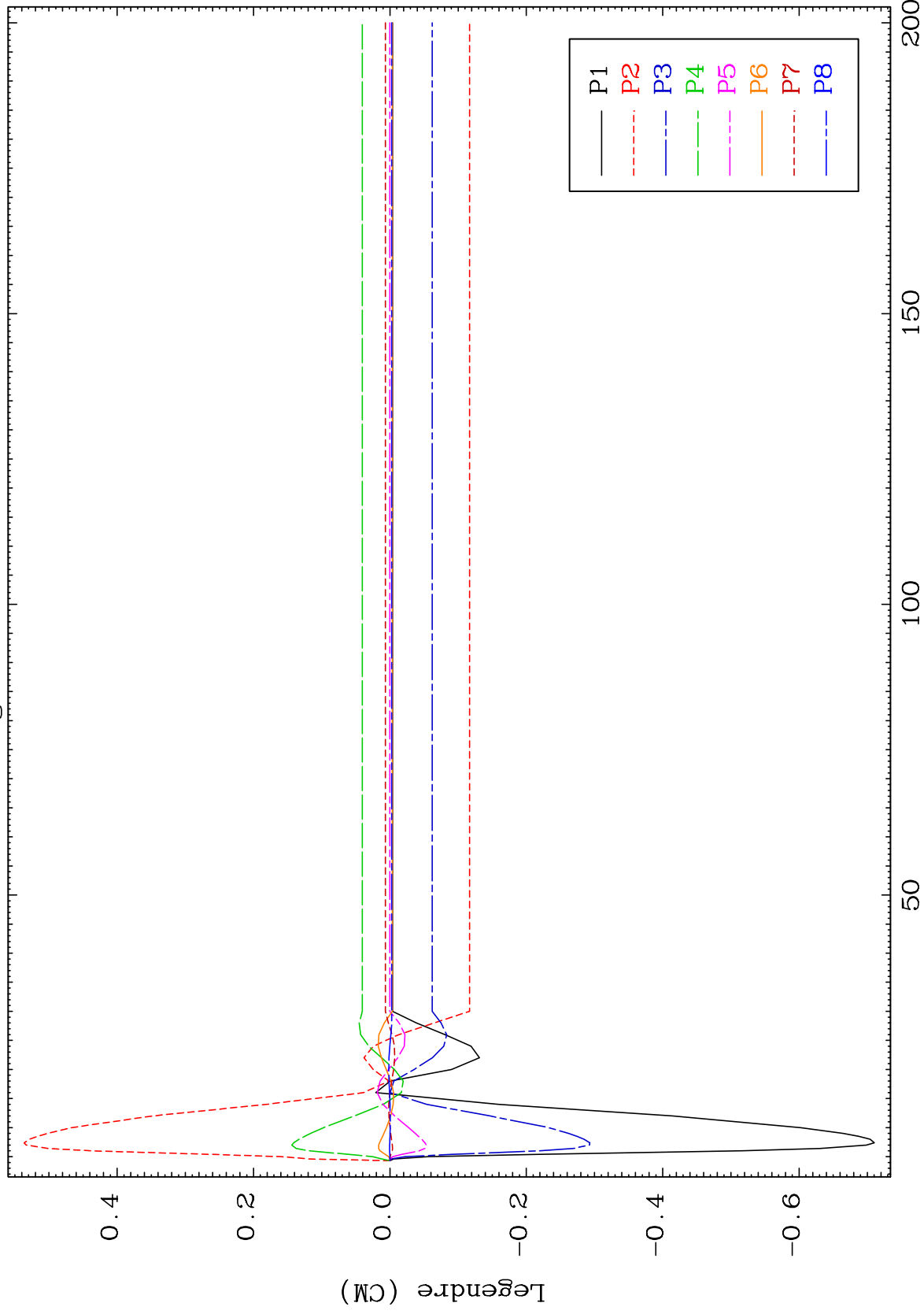
Incident Energy (MeV)

72-Hf-159

MAT 7180

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

72-Hf-159



57

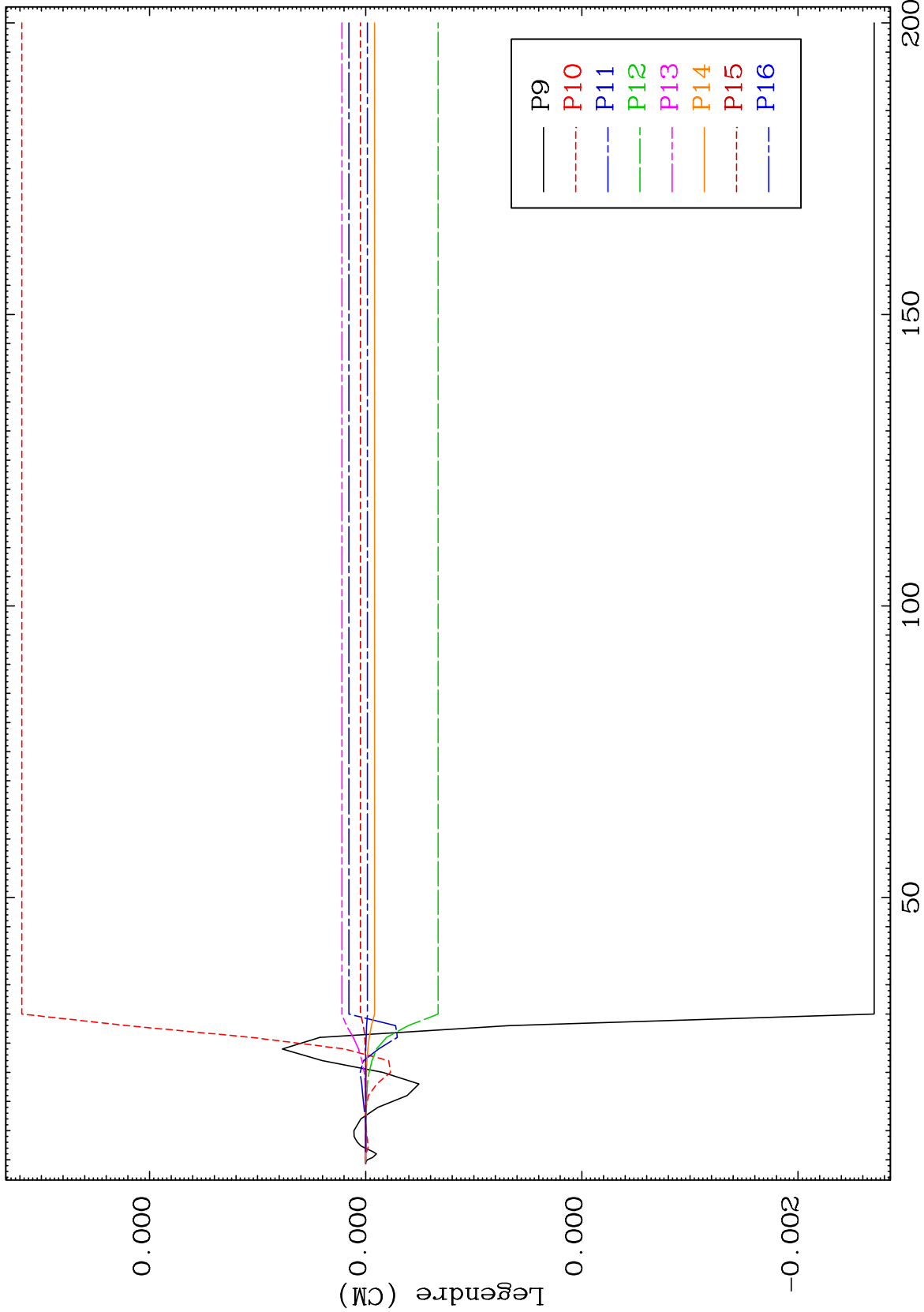
Incident Energy (MeV)

72-Hf-159

MAT 7180

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

72-Hf-159



58

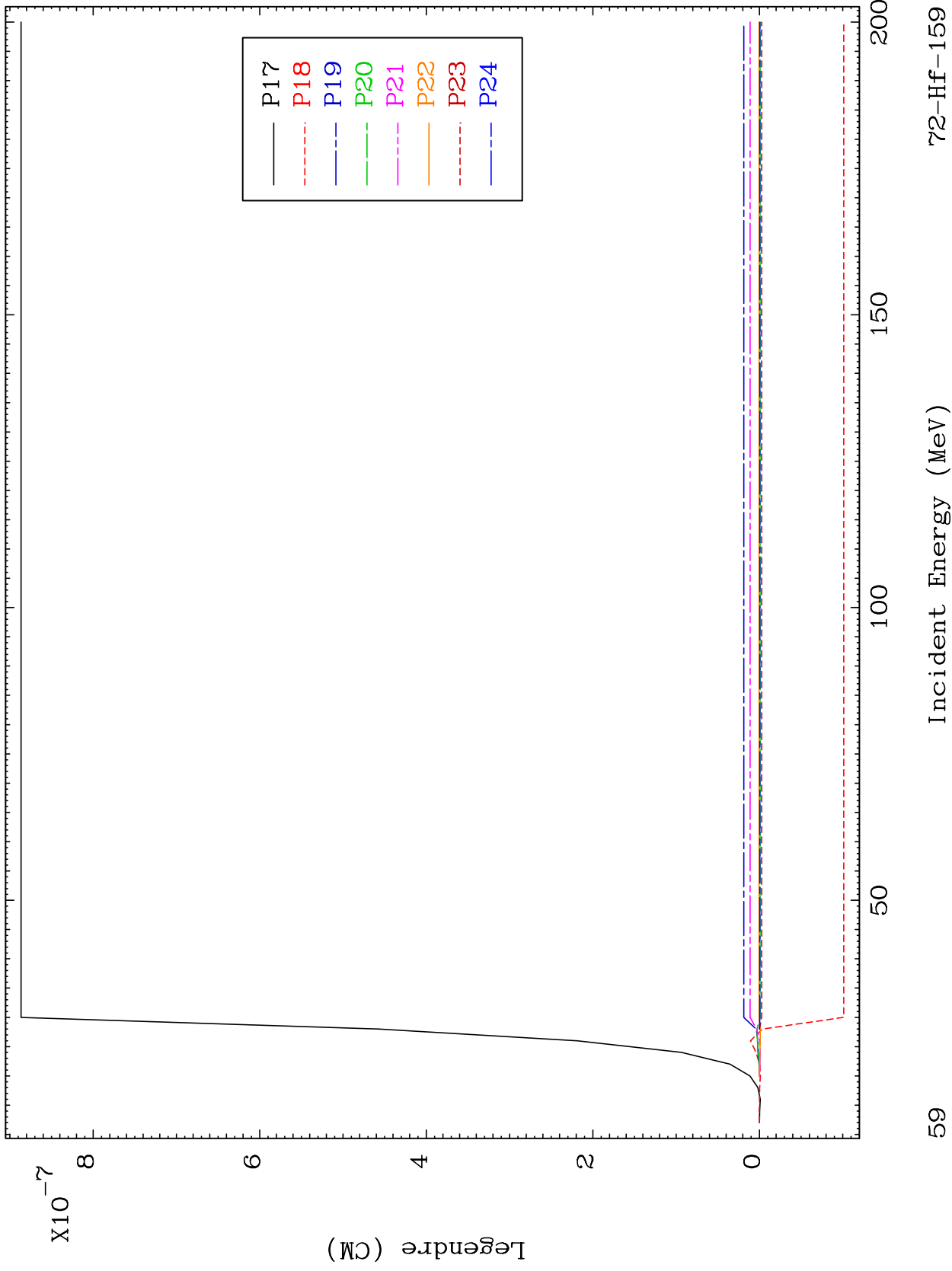
Incident Energy (MeV)

72-Hf-159

MAT 7180

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

72-Hf-159



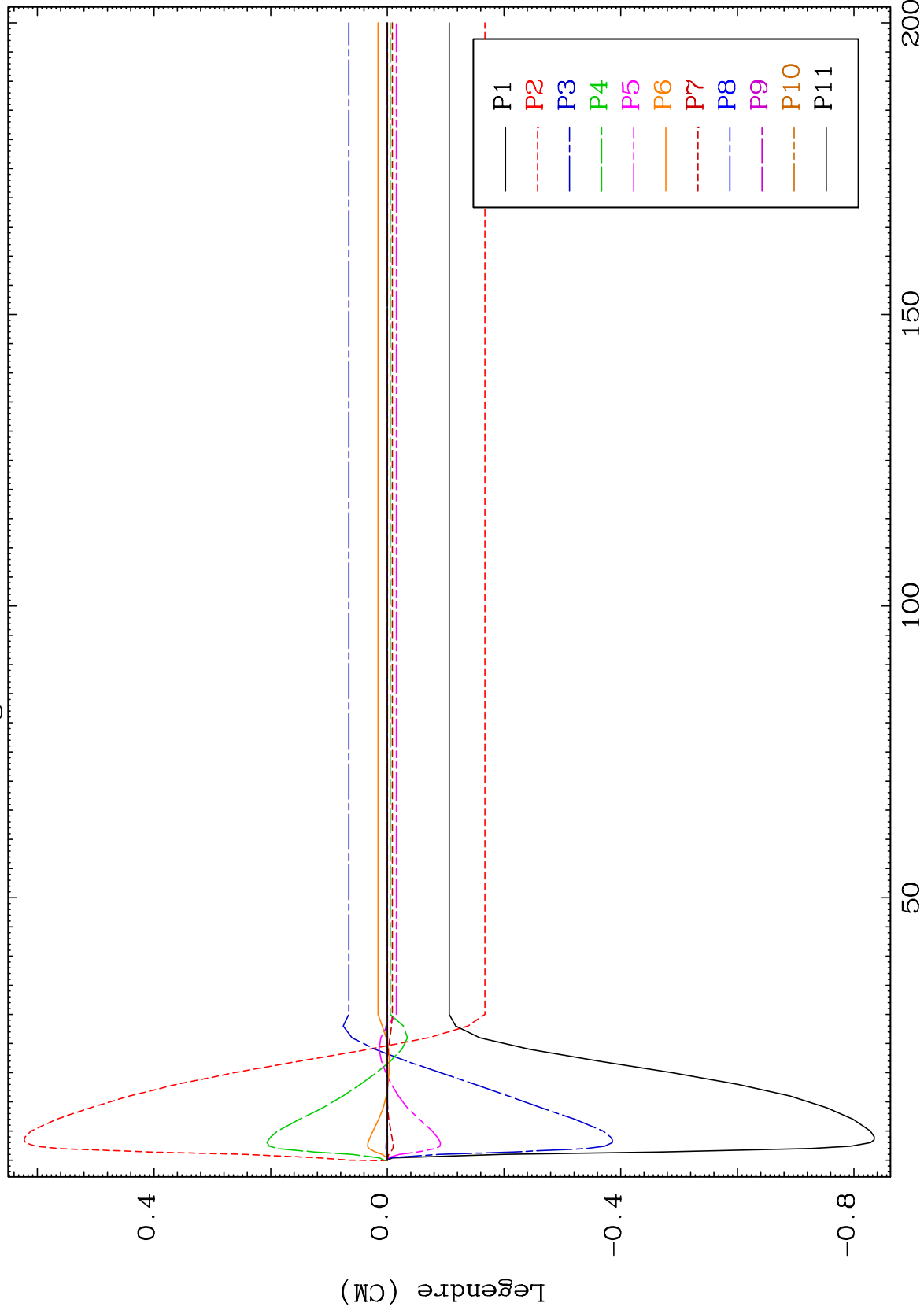
59

72-Hf-159

MAT 7180

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

72-Hf-159



72-Hf-159

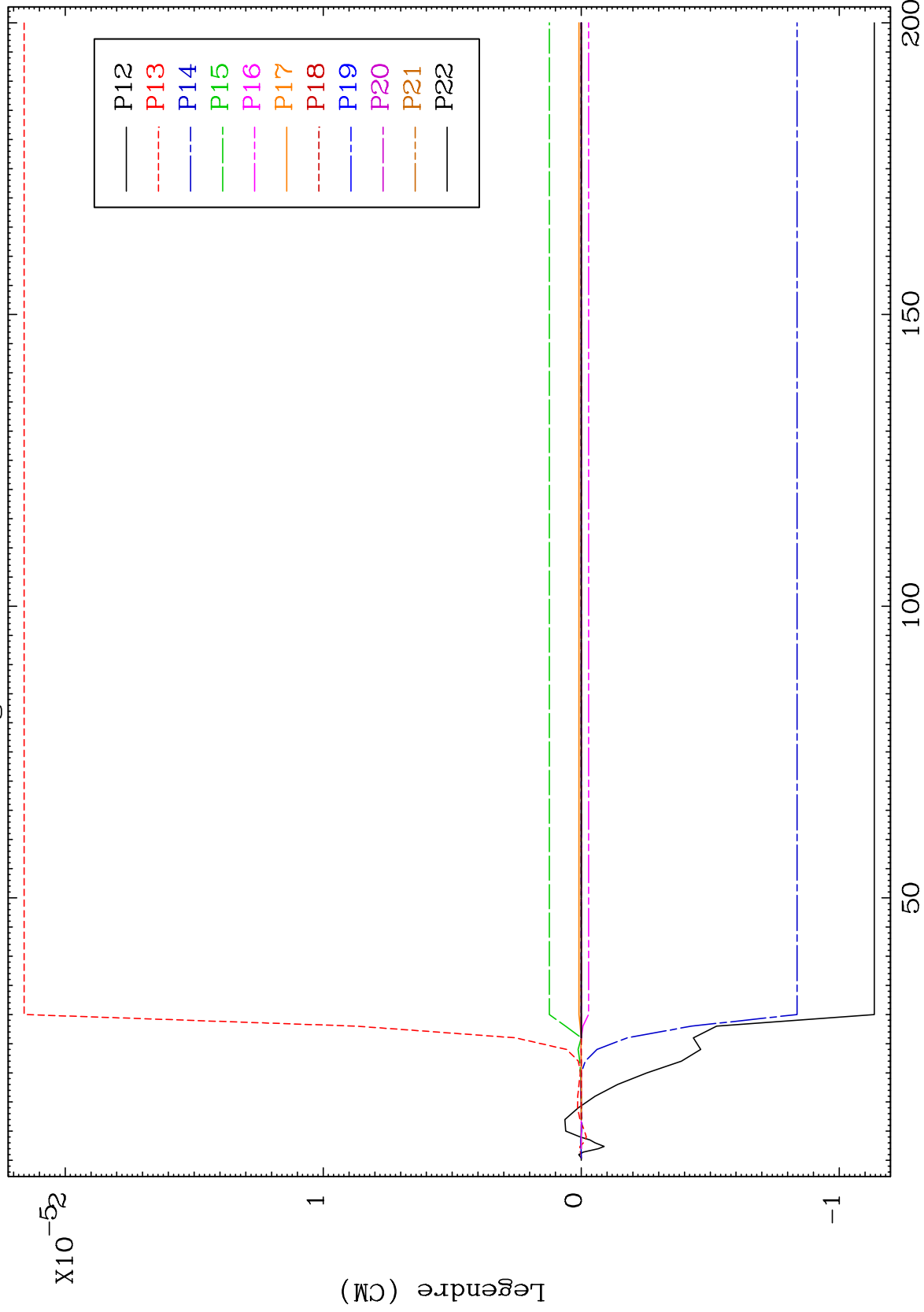
Incident Energy (MeV)

60

MAT 7180

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

72-Hf-159



61

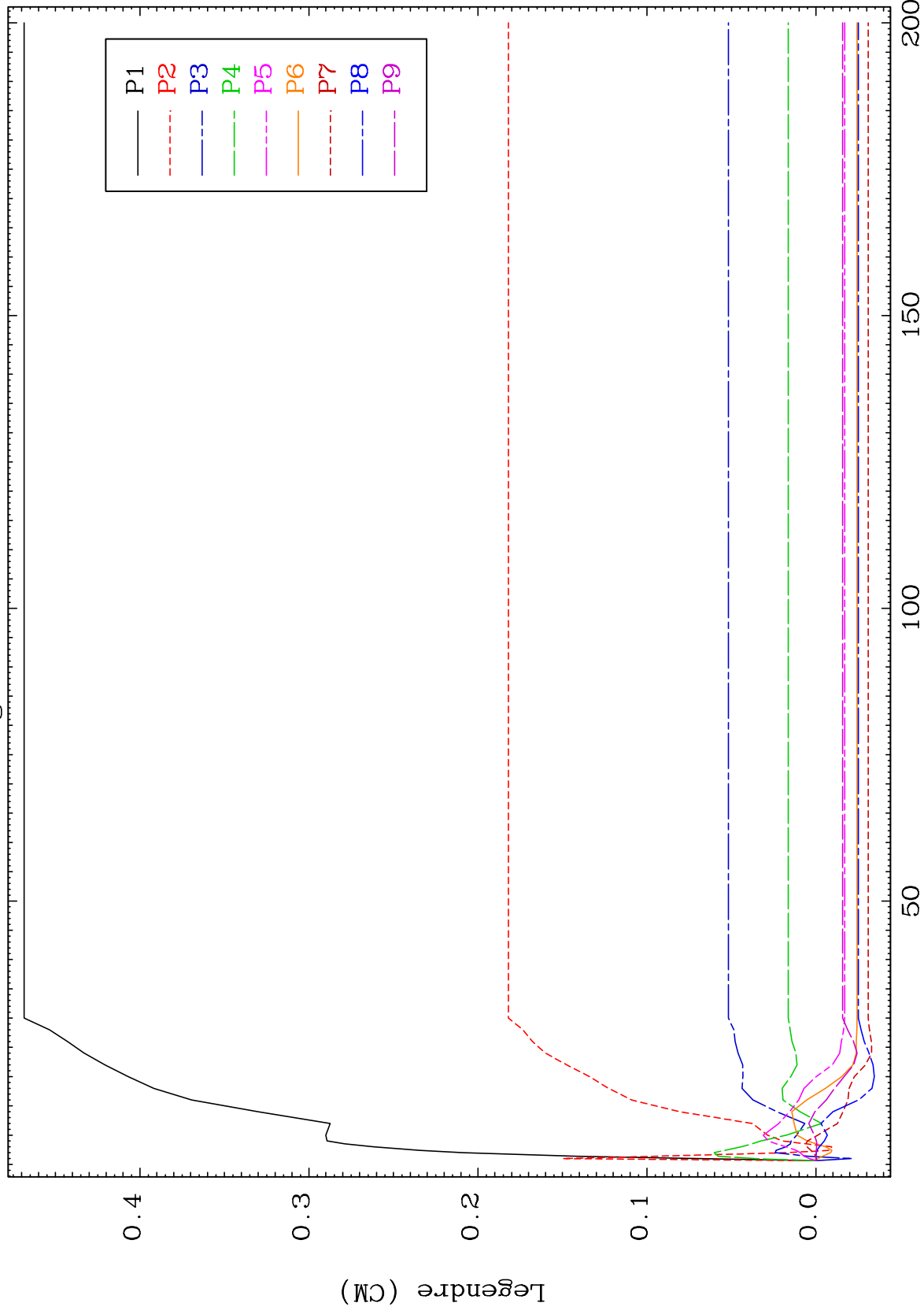
Incident Energy (MeV)

72-Hf-159

MAT 7180

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

72-Hf-159



62

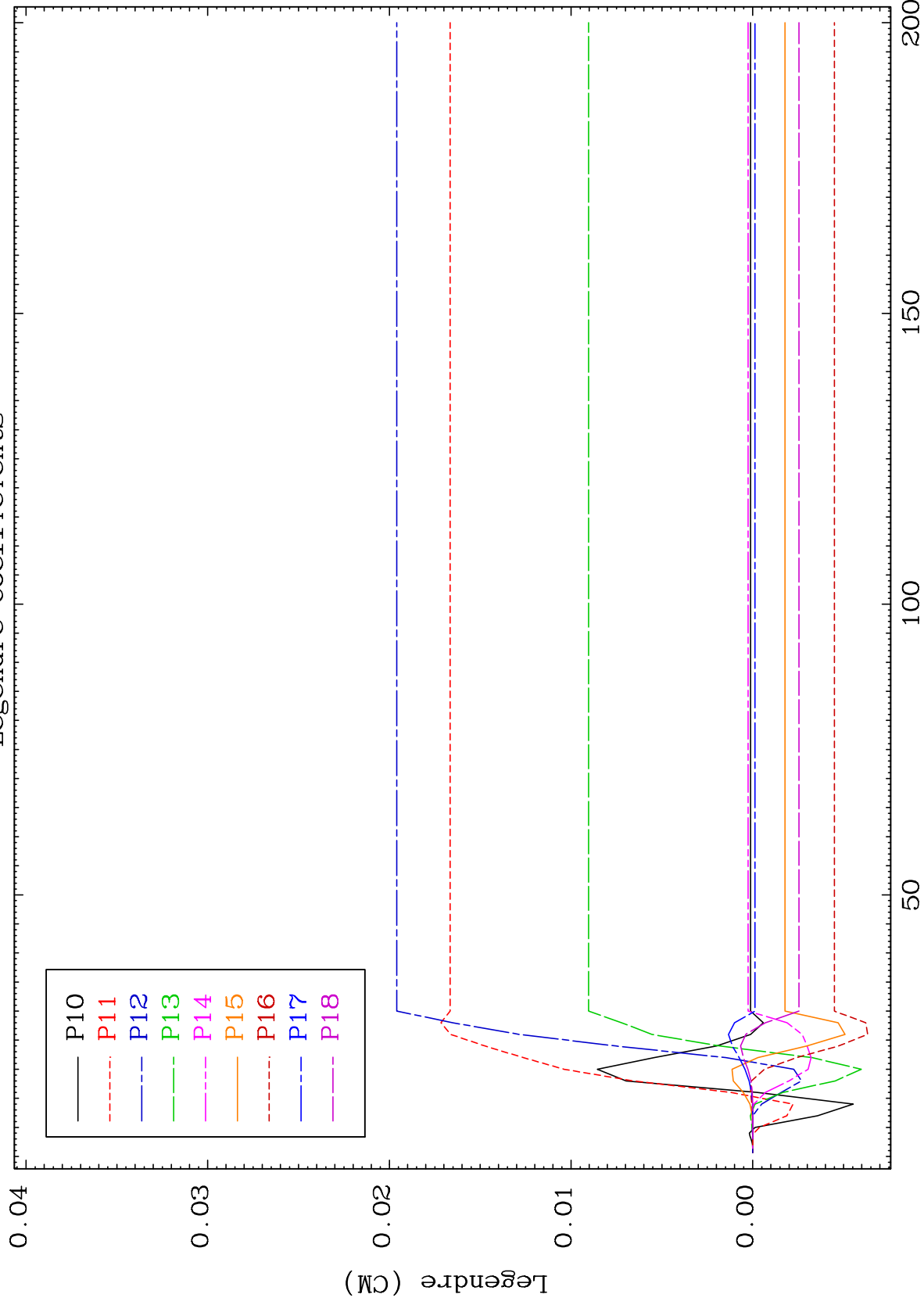
Incident Energy (MeV)

72-Hf-159

MAT 7180

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

72-Hf-159



63

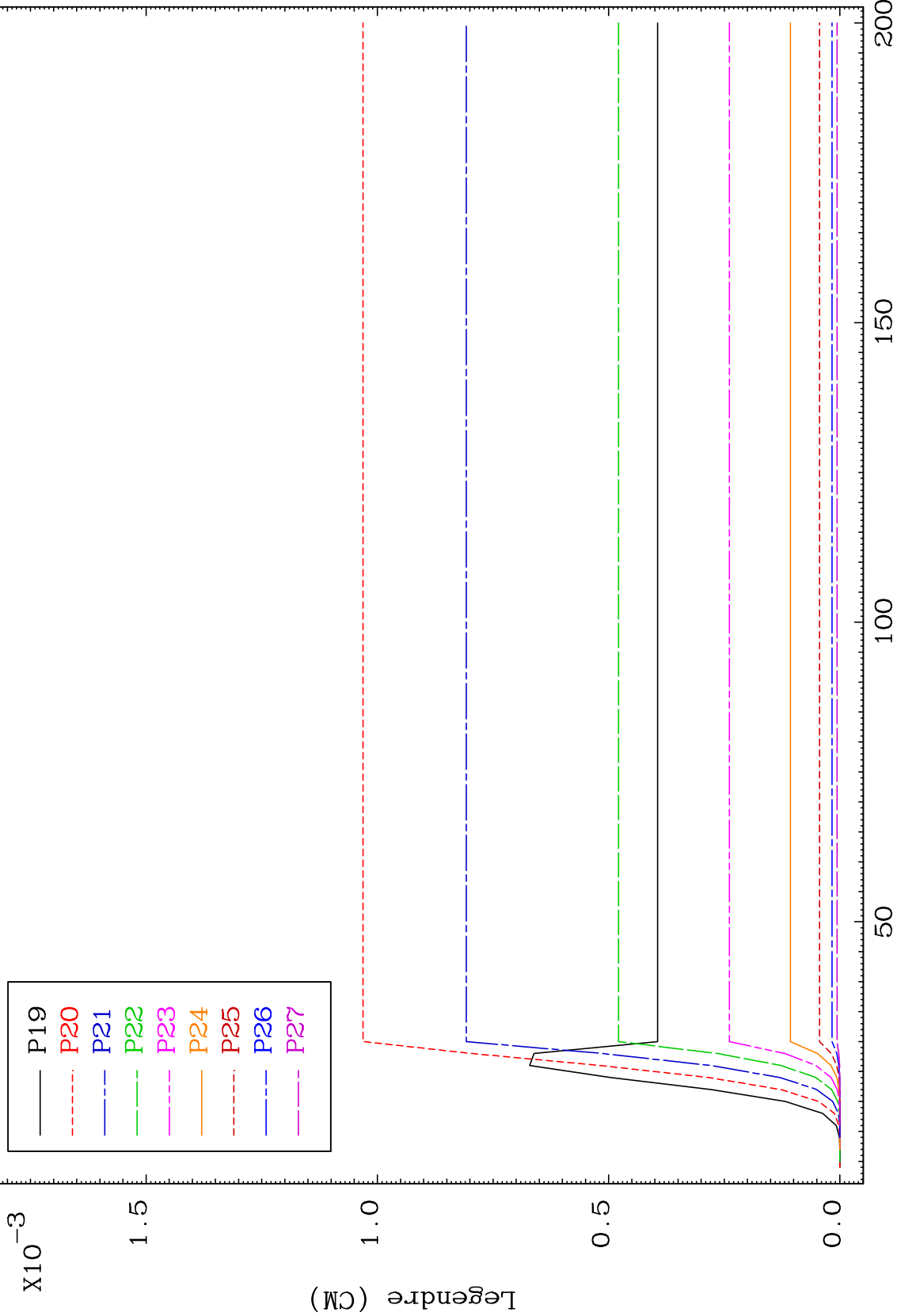
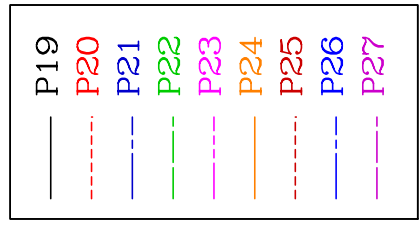
Incident Energy (MeV)

72-Hf-159

MAT 7180

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

72-Hf-159



64

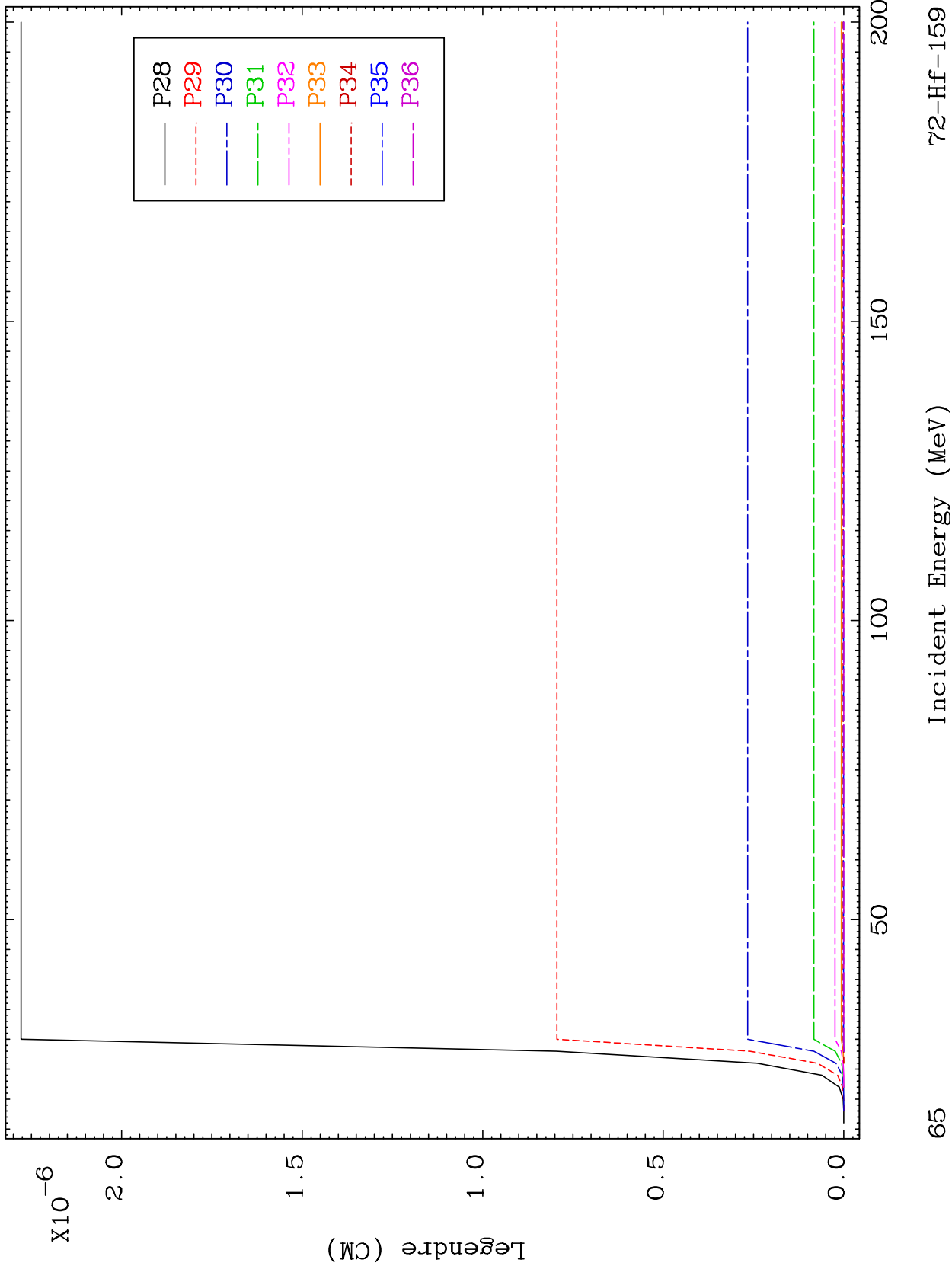
Incident Energy (MeV)

72-Hf-159

MAT 7180

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

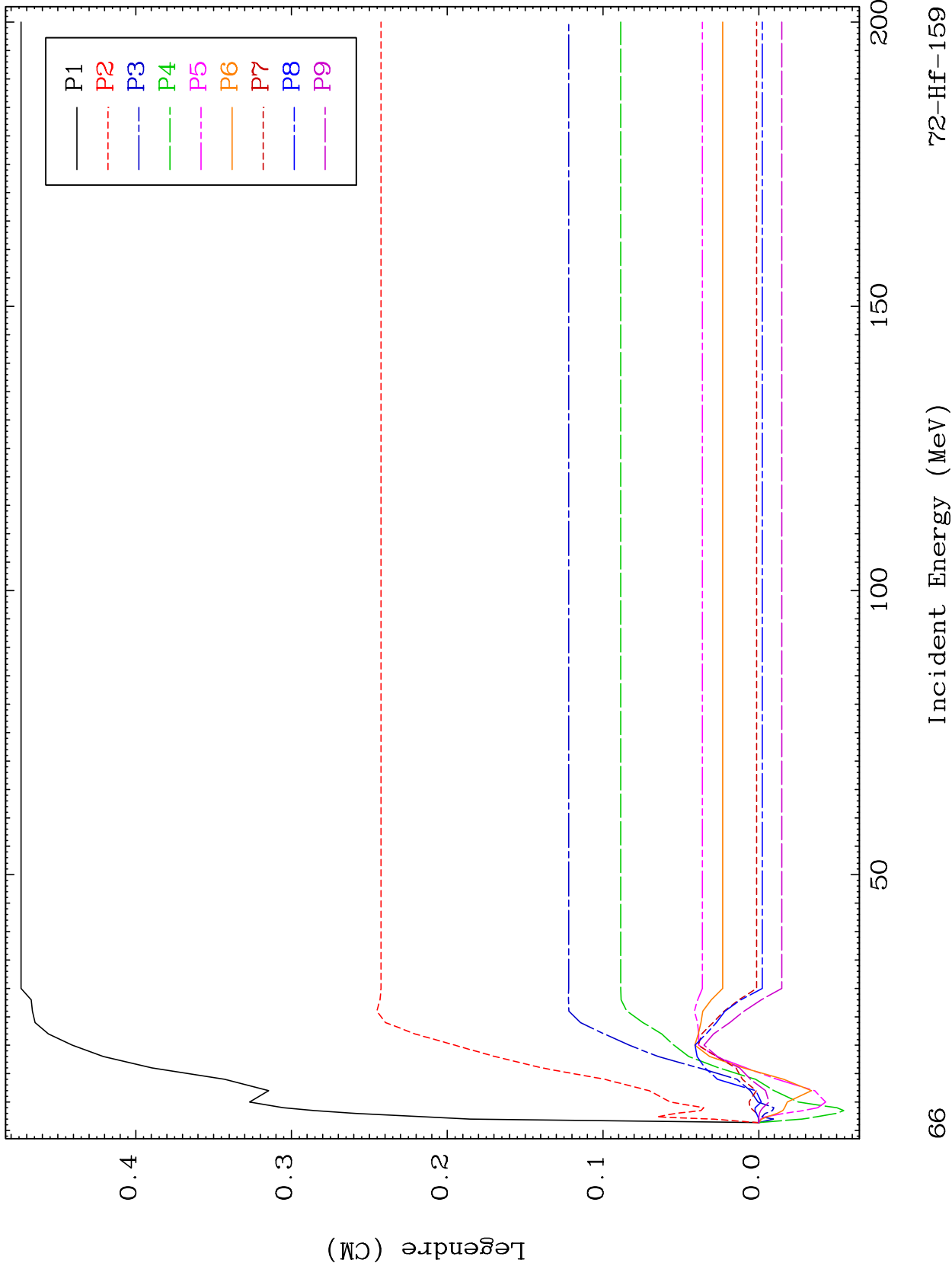
72-Hf-159



65

Incident Energy (MeV)

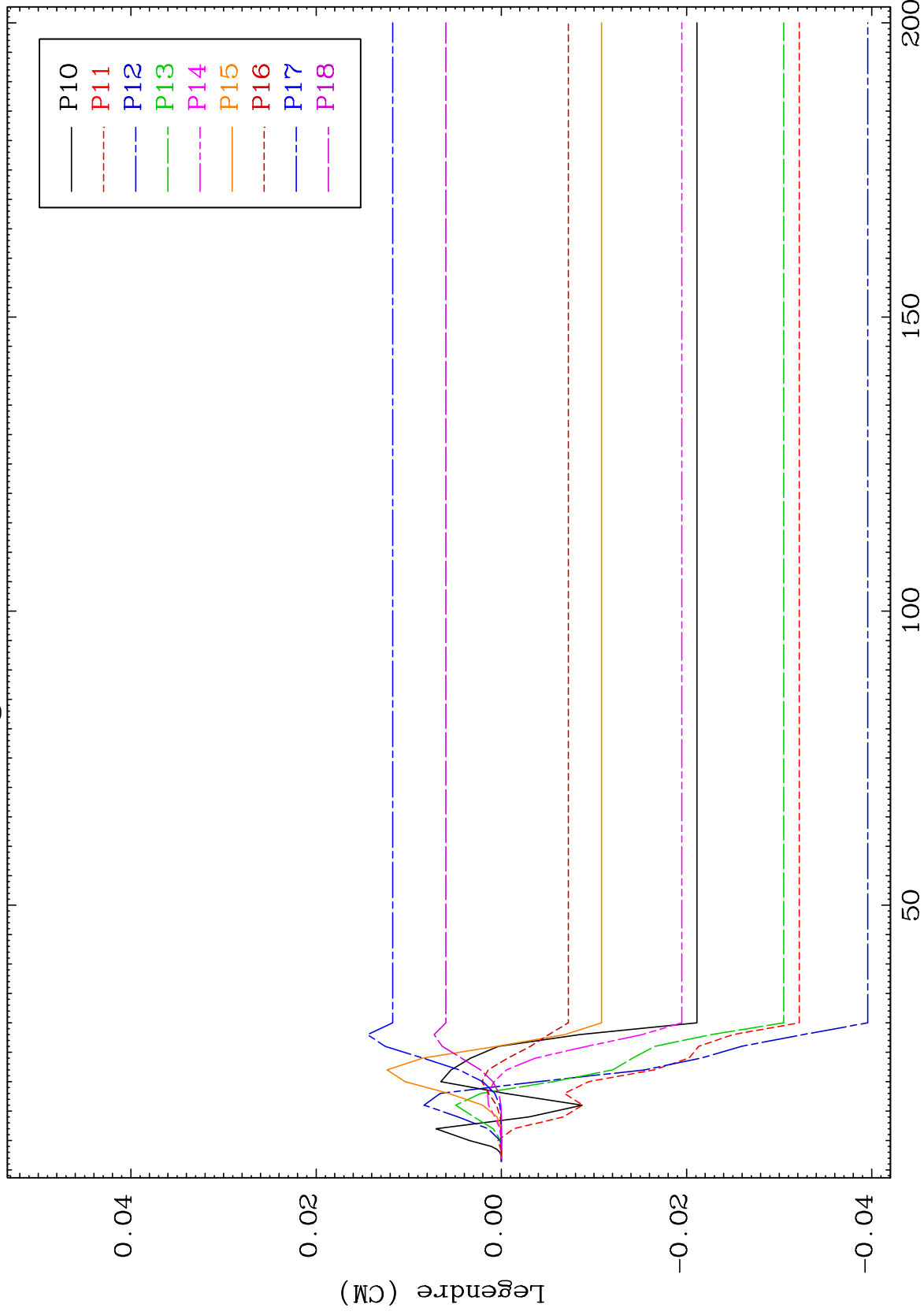
72-Hf-159



MAT 7180

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

72-Hf-159



67

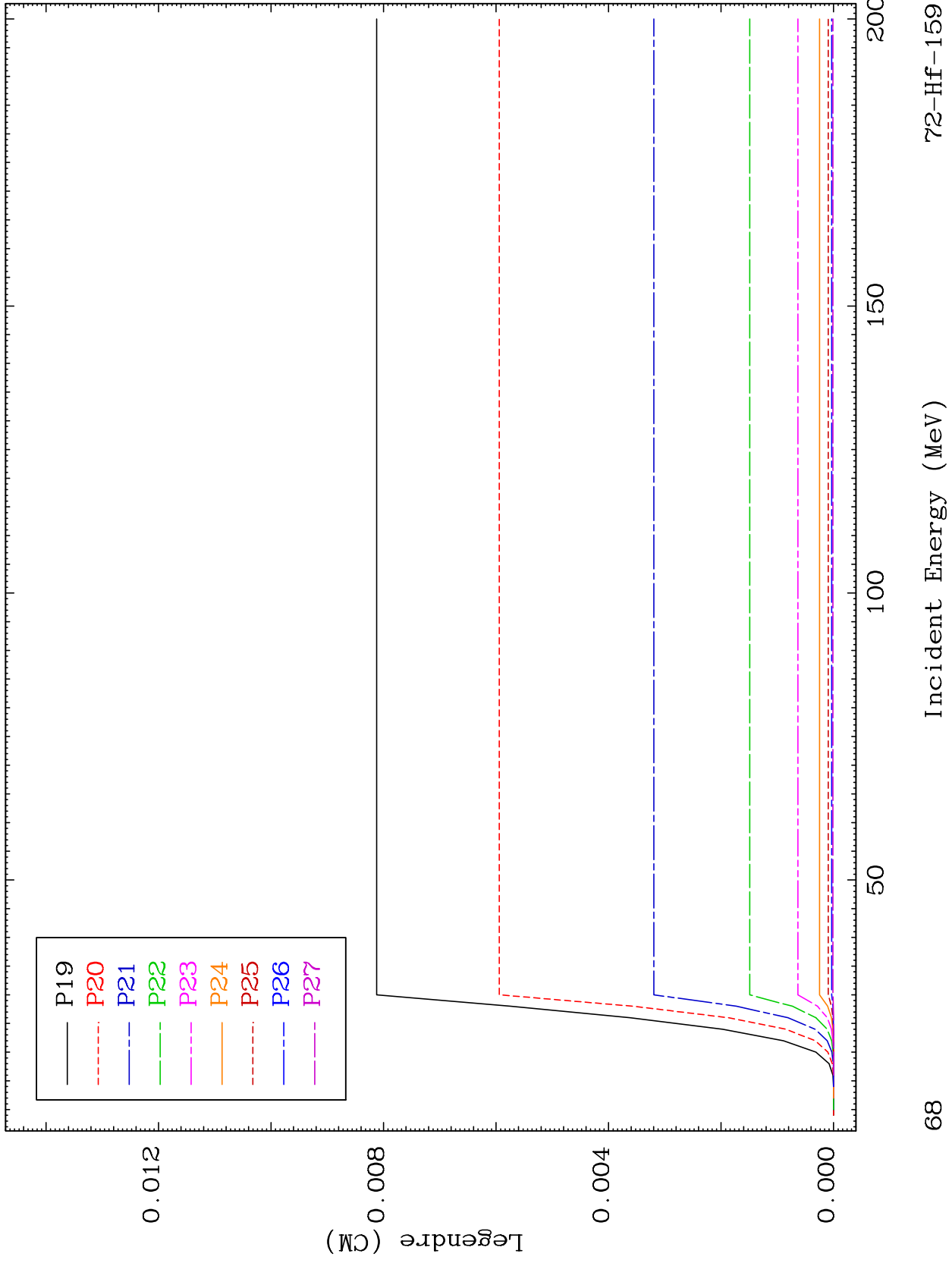
Incident Energy (MeV)

72-Hf-159

MAT 7180

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

72-Hf-159



68

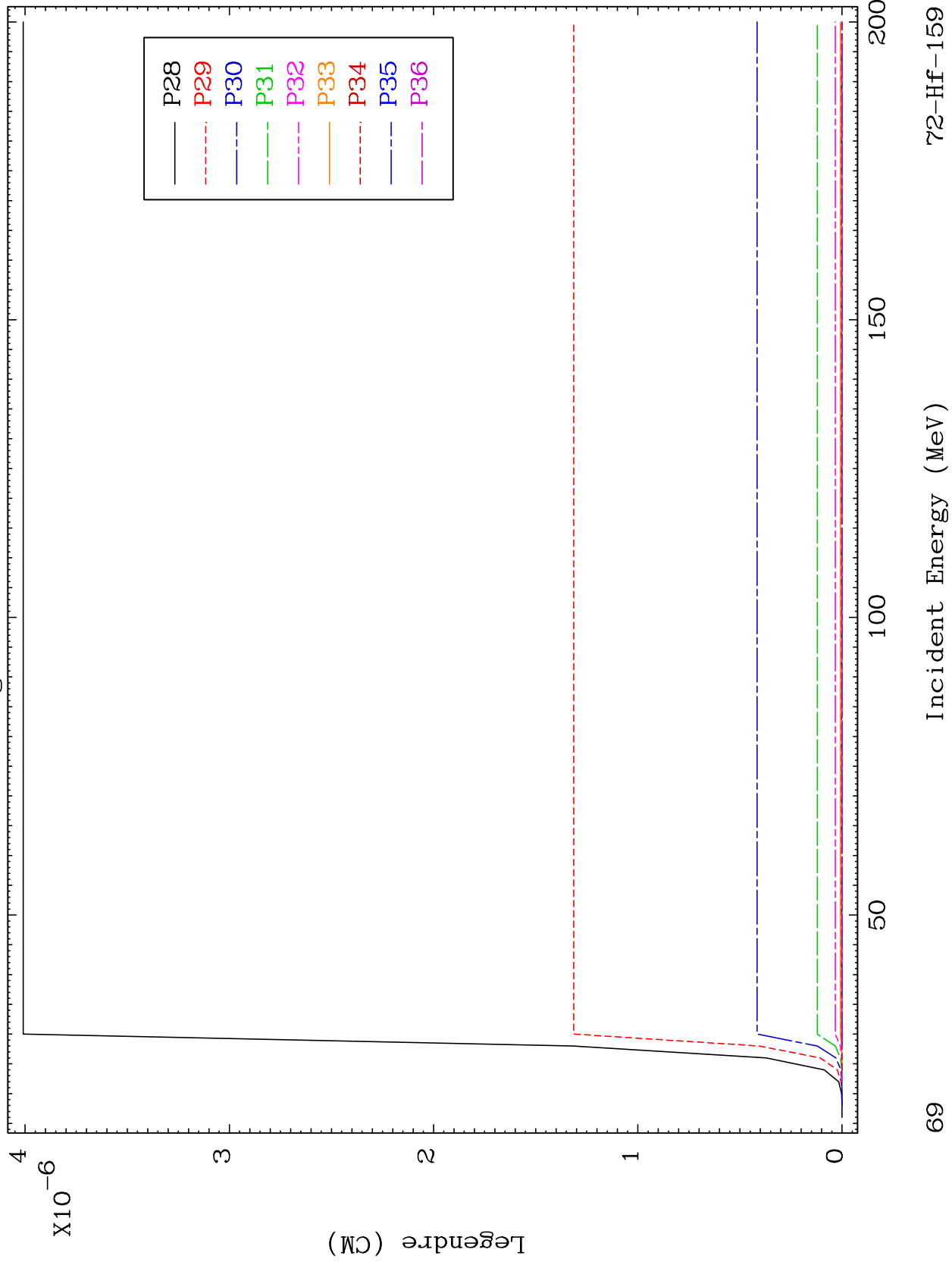
Incident Energy (MeV)

72-Hf-159

MAT 7180

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

72-Hf-159

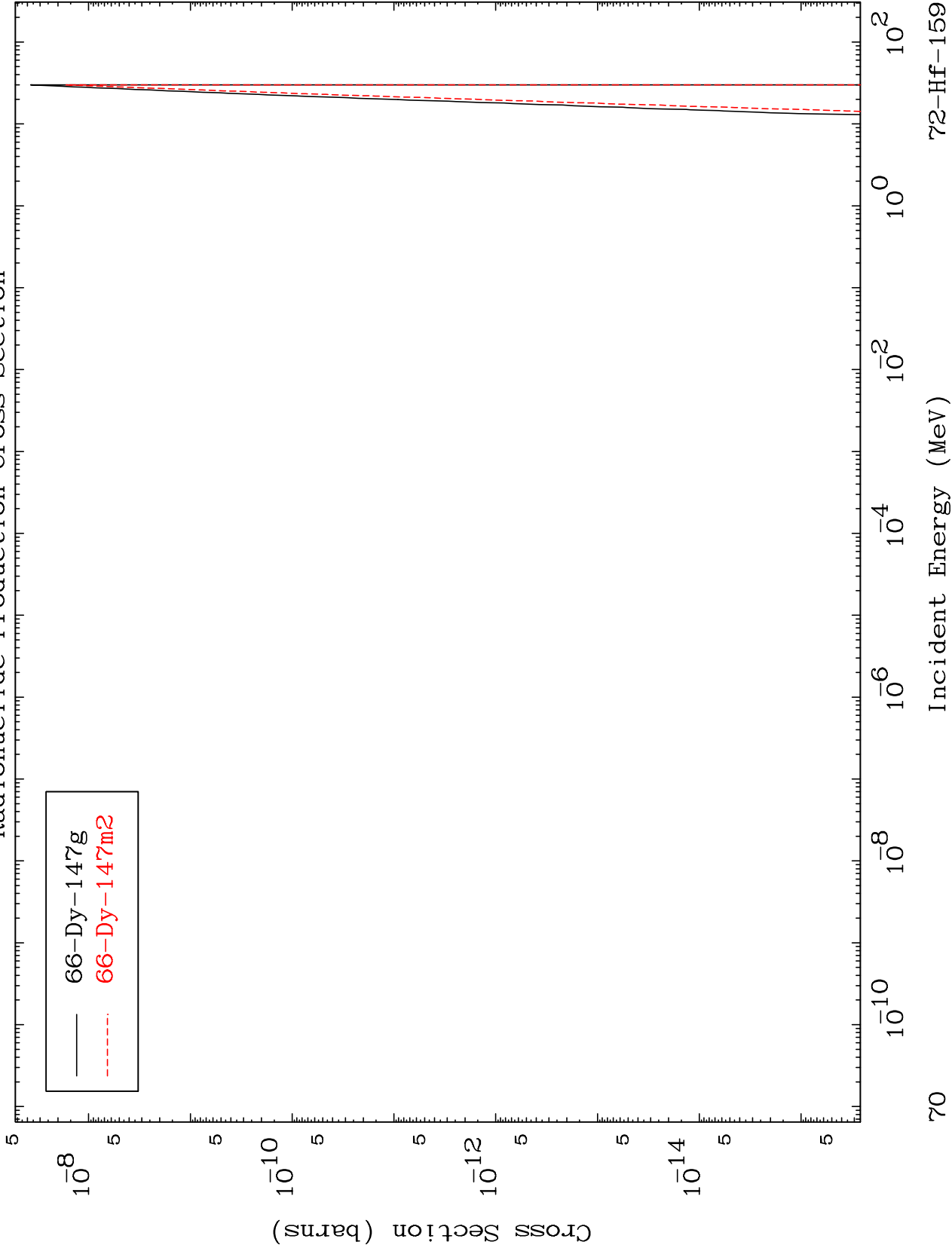


MAT 7180

(n,n') 3 α

72-Hf-159

Radionuclide Production Cross Section



70

Incident Energy (MeV)

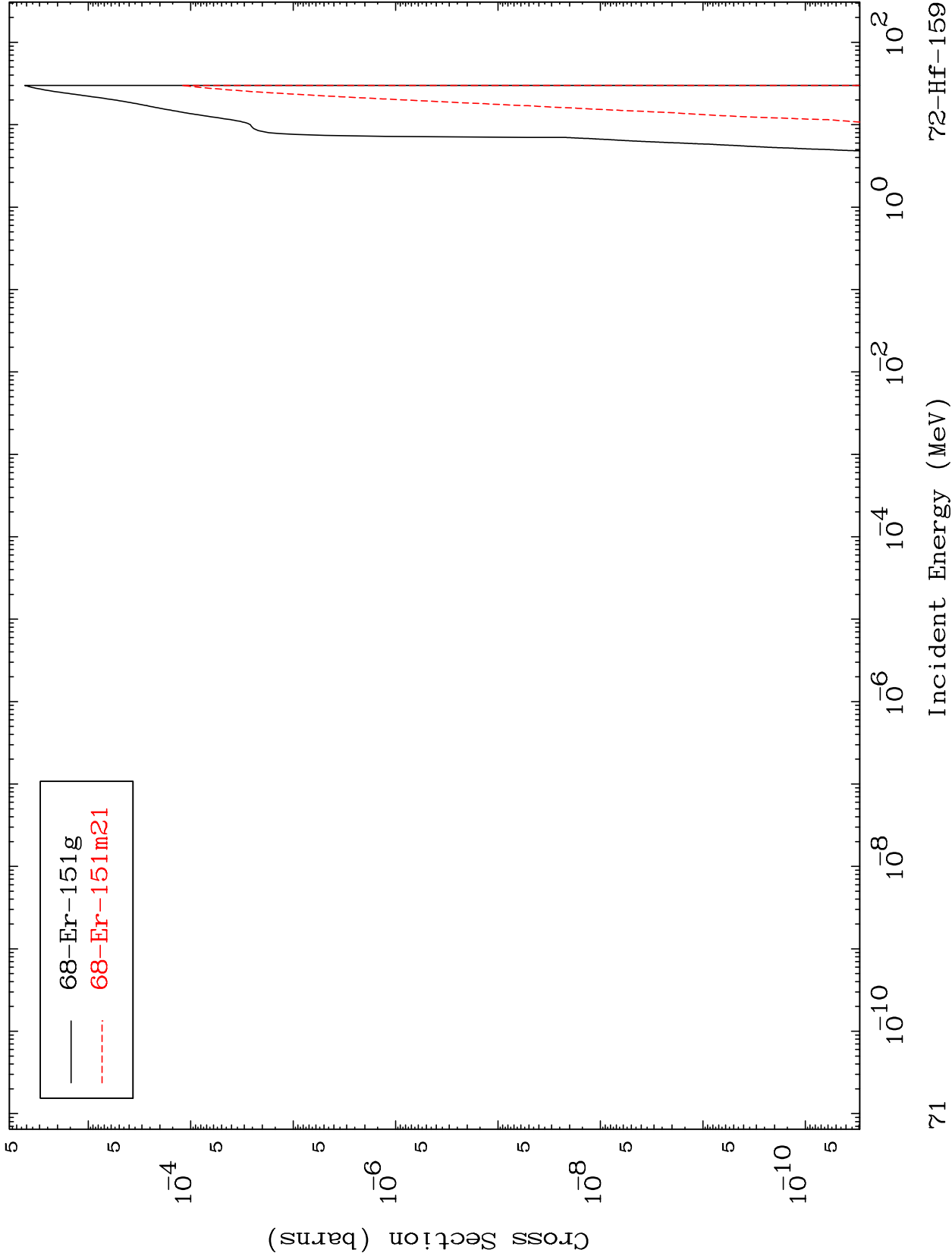
72-Hf-159

MAT 7180

(n,n') 2 α

72-Hf-159

Radionuclide Production Cross Section



71

Incident Energy (MeV)

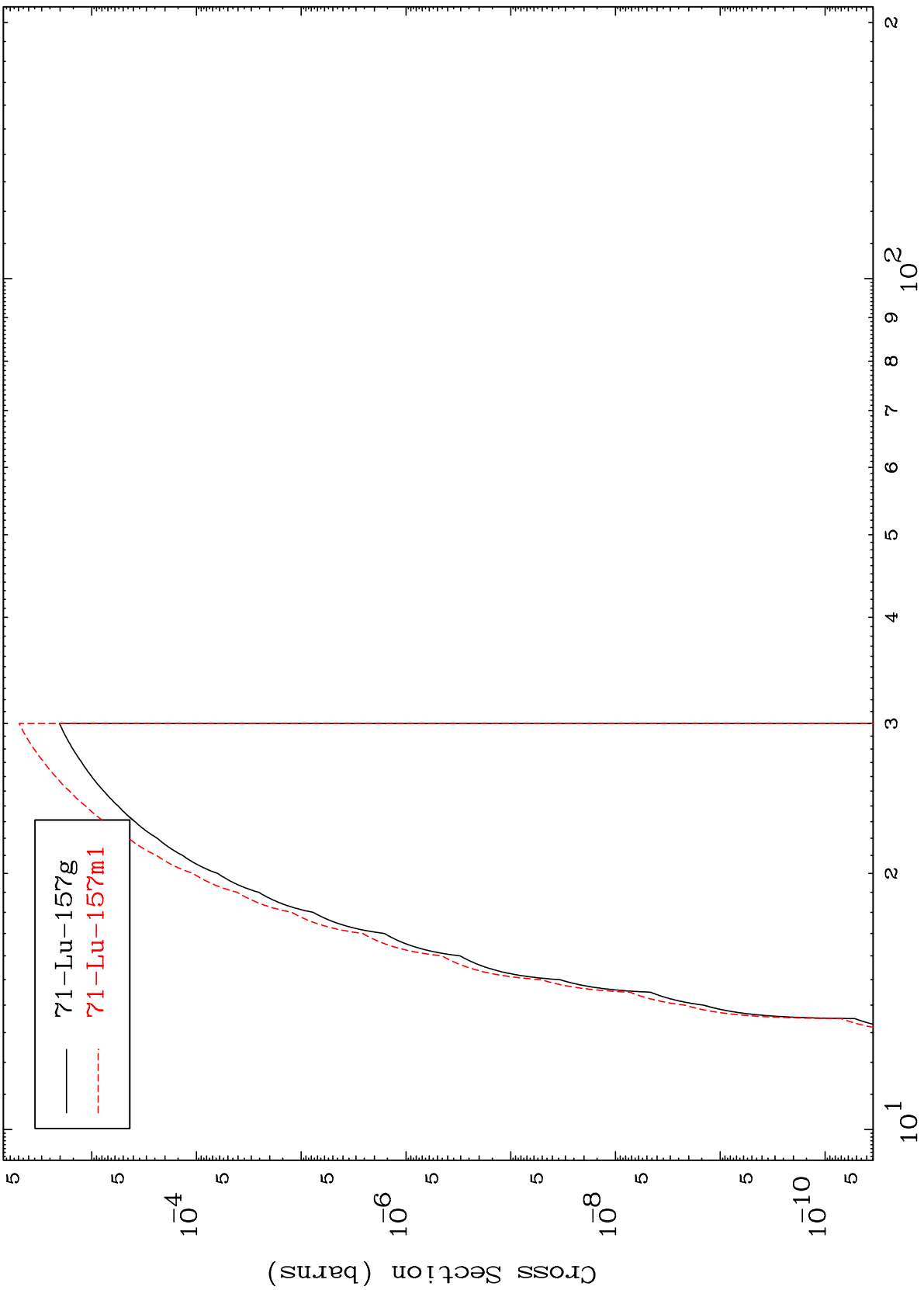
72-Hf-159

MAT 7180

(n,n') d

72-Hf-159

Radionuclide Production Cross Section



72

Incident Energy (MeV)

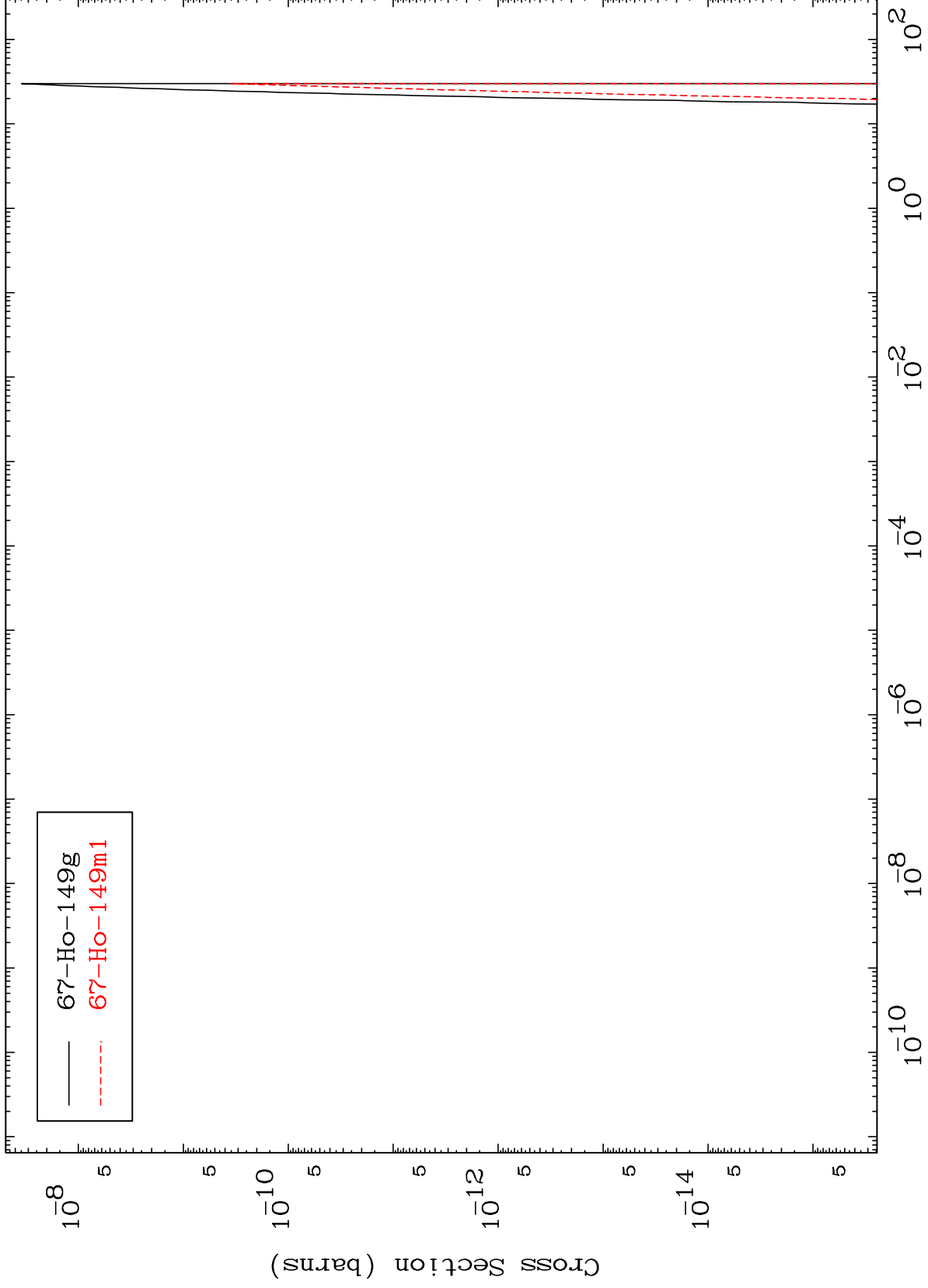
72-Hf-159

MAT 7180

(n,n') d,2α

72-Hf-159

Radionuclide Production Cross Section



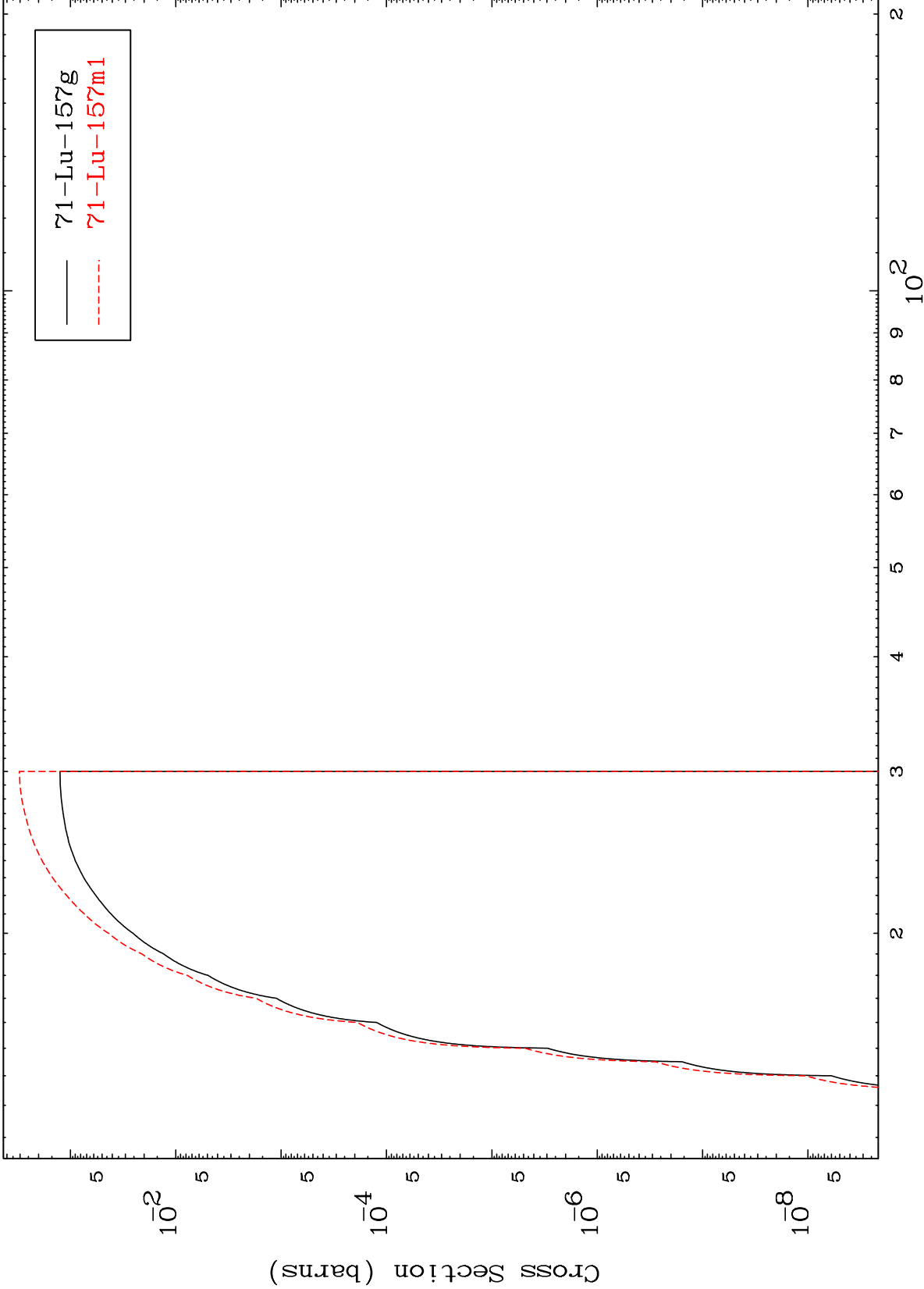
— 67-Ho-149g
- - - 67-Ho-149m1

73

Incident Energy (MeV)

72-Hf-159

Radionuclide Production Cross Section



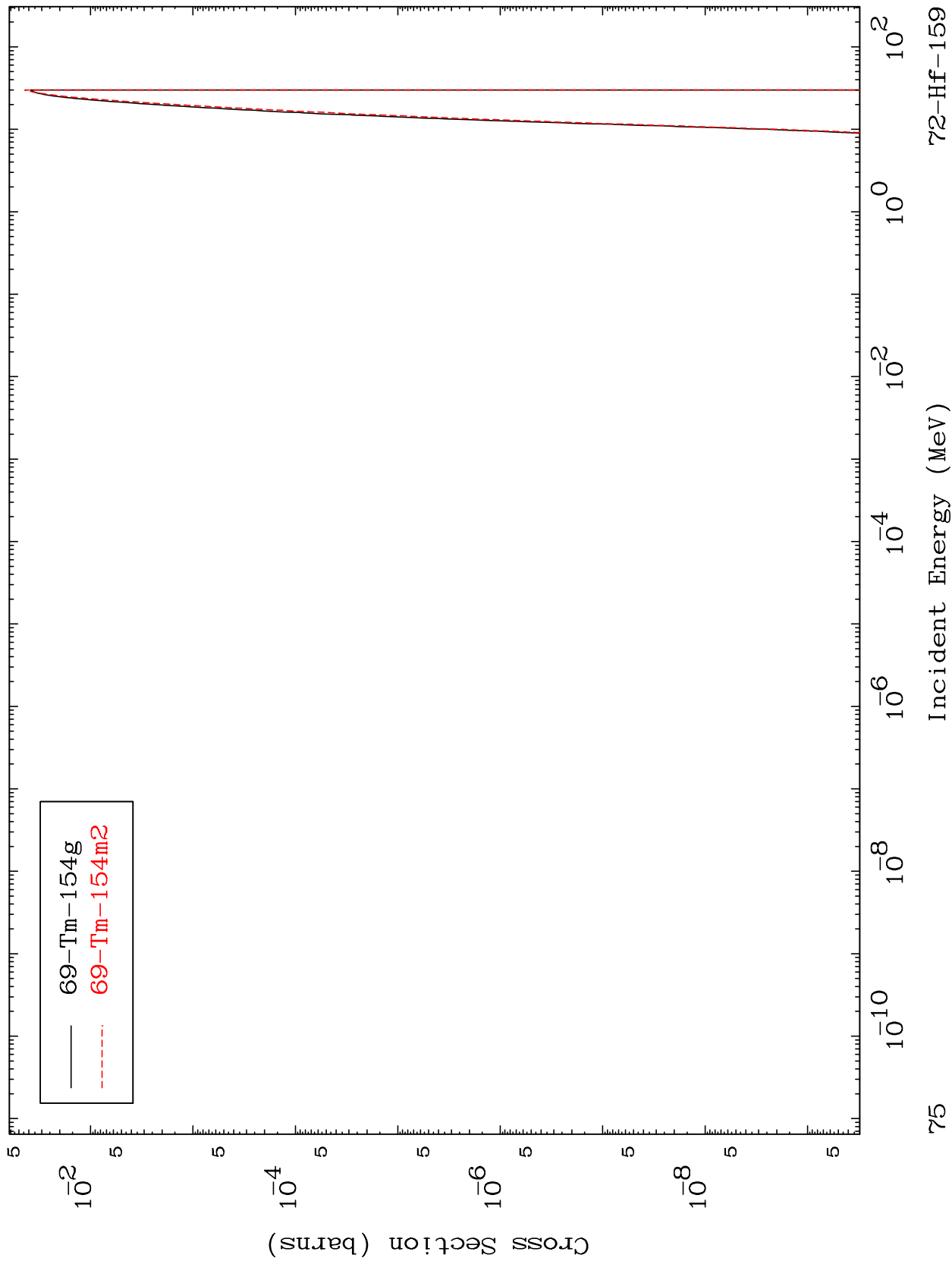
71-Lu-157g
71-Lu-157m1

MAT 7180

(n,n') p α

72-Hf-159

Radionuclide Production Cross Section

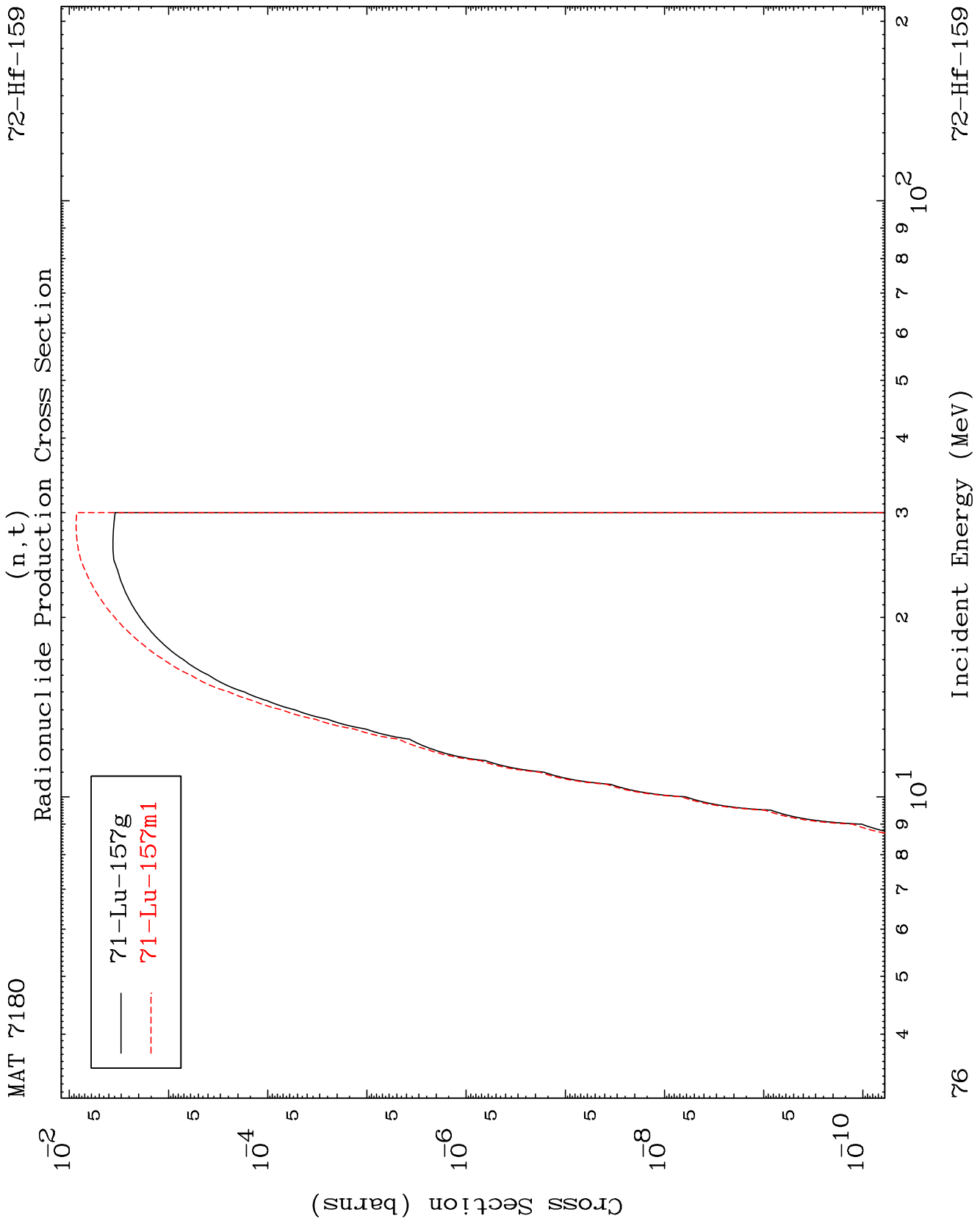


69-Tm-154g
69-Tm-154m2

75

Incident Energy (MeV)

72-Hf-159

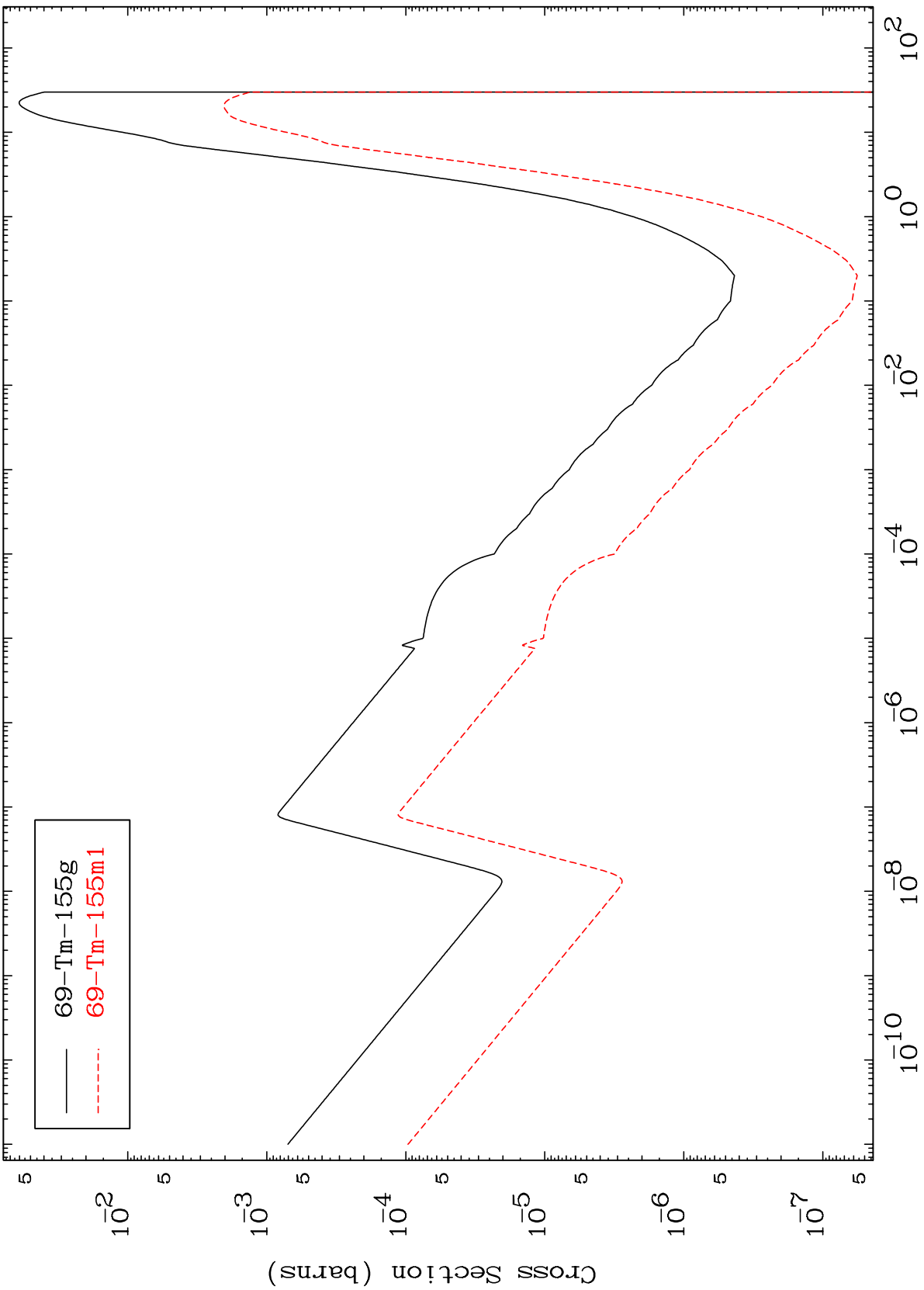


MAT 7180

(n,p) α

72-Hf-159

Radionuclide Production Cross Section



69-Tm-155g
69-Tm-155m1

77

Incident Energy (MeV)

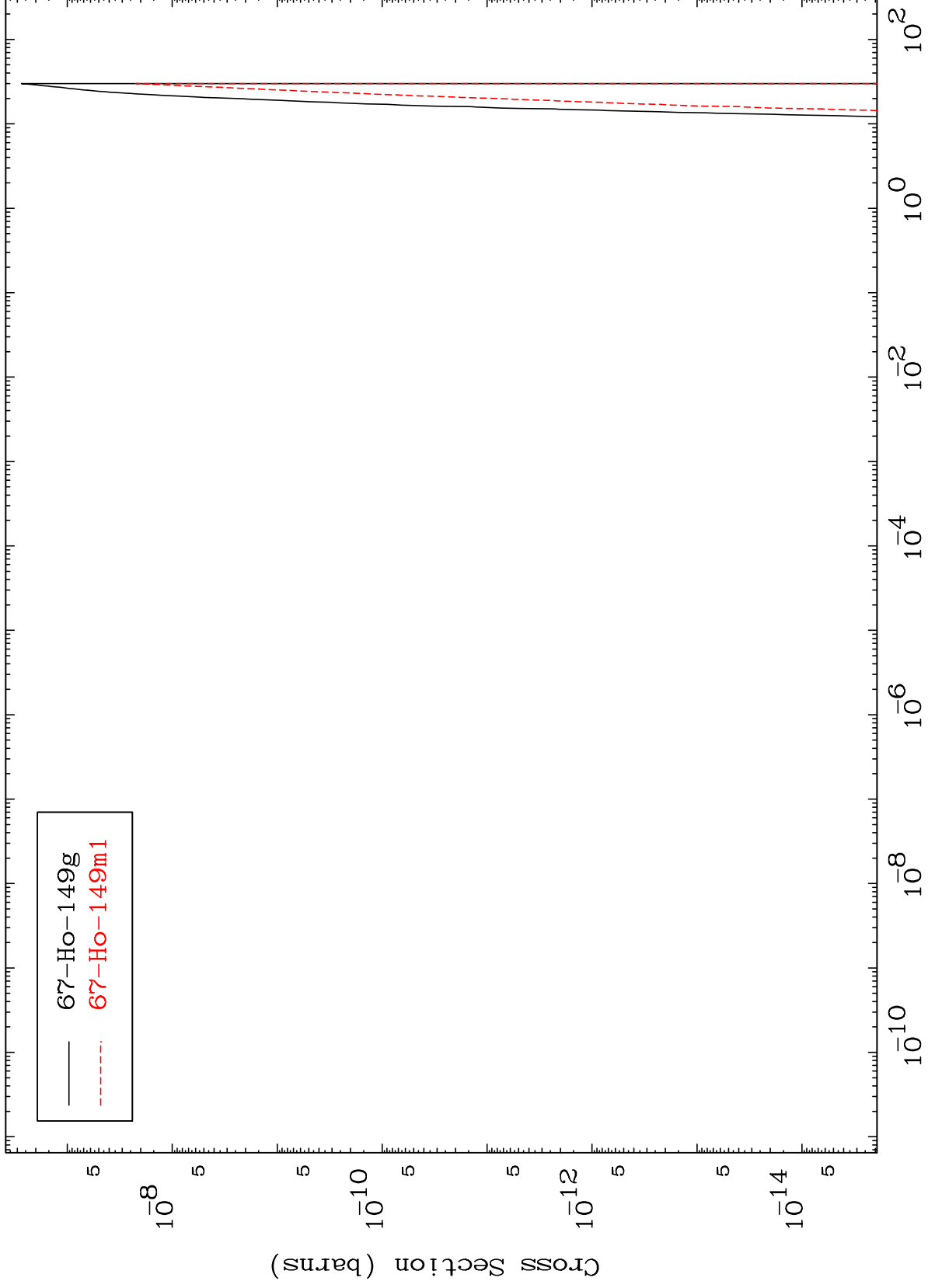
72-Hf-159

MAT 7180

(n,t) 2 α

72-Hf-159

Radionuclide Production Cross Section



78

Incident Energy (MeV)

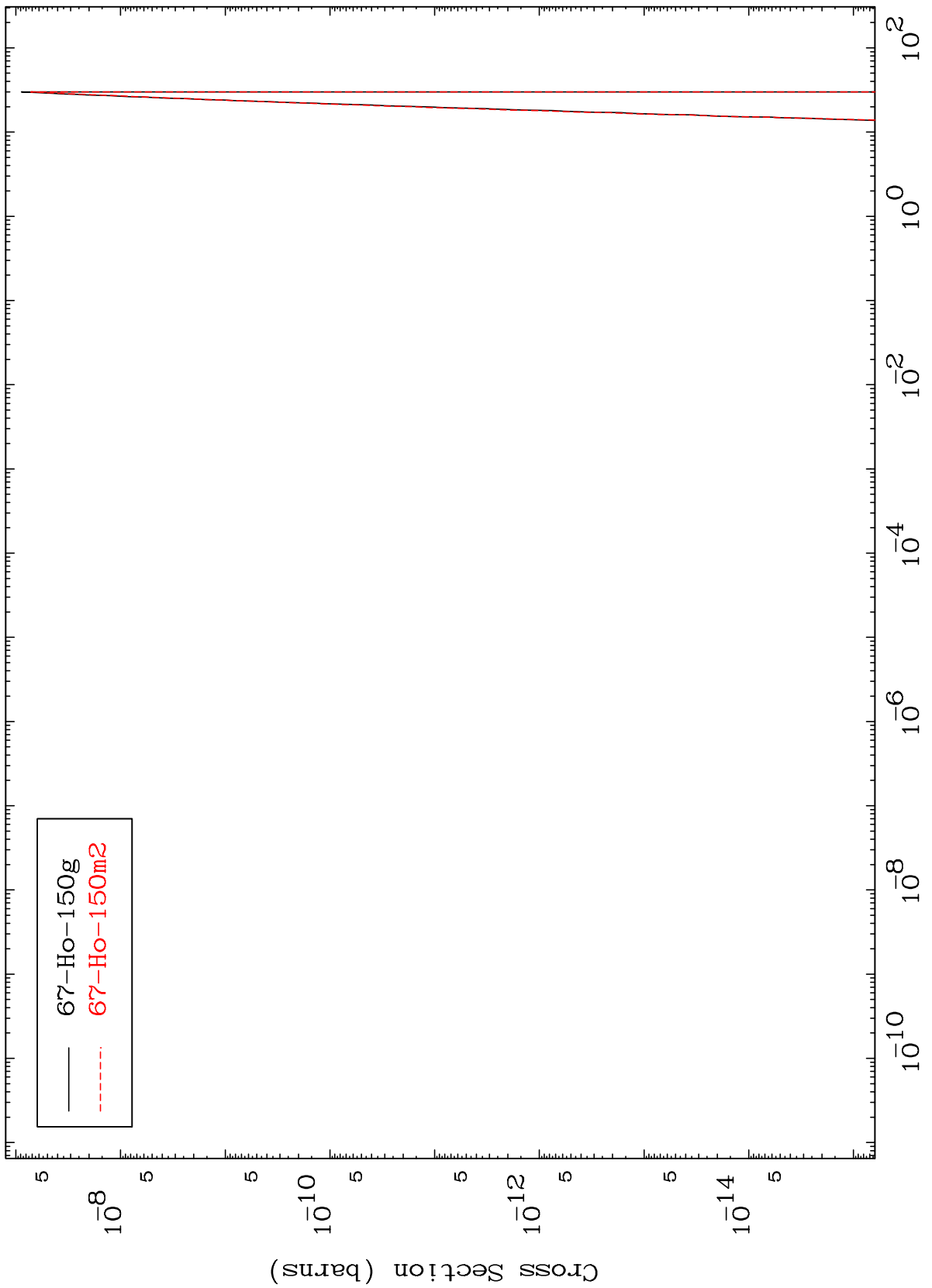
72-Hf-159

MAT 7180

(n,d) 2 α

72-Hf-159

Radionuclide Production Cross Section



79

Incident Energy (MeV)

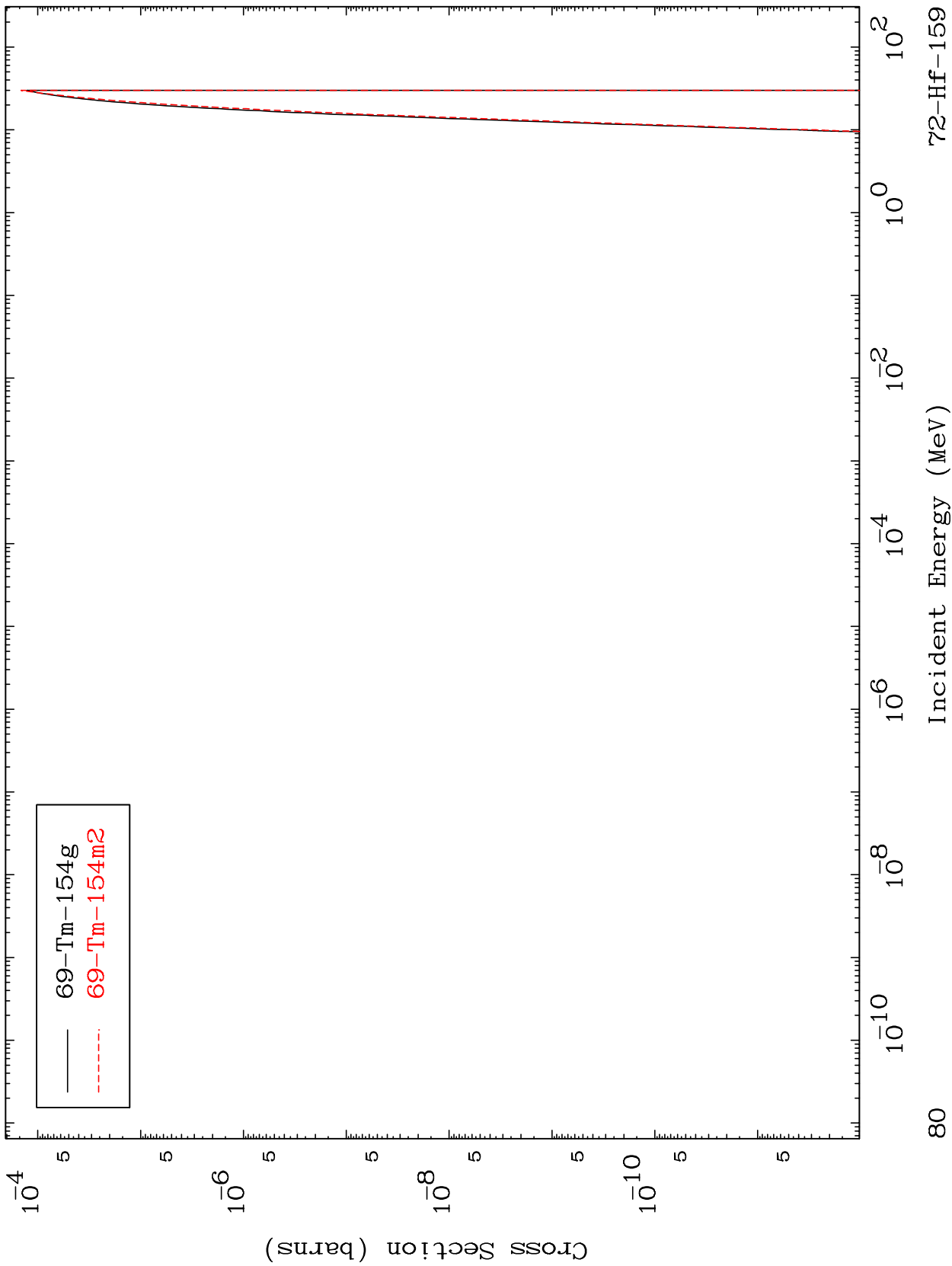
72-Hf-159

MAT 7180

(n,d) α

72-Hf-159

Radionuclide Production Cross Section



69-Tm-154g
69-Tm-154m2

80

Incident Energy (MeV)

72-Hf-159