

Program EVALPLOT
(Version 2018-1)

by

Dermott E. Cullen
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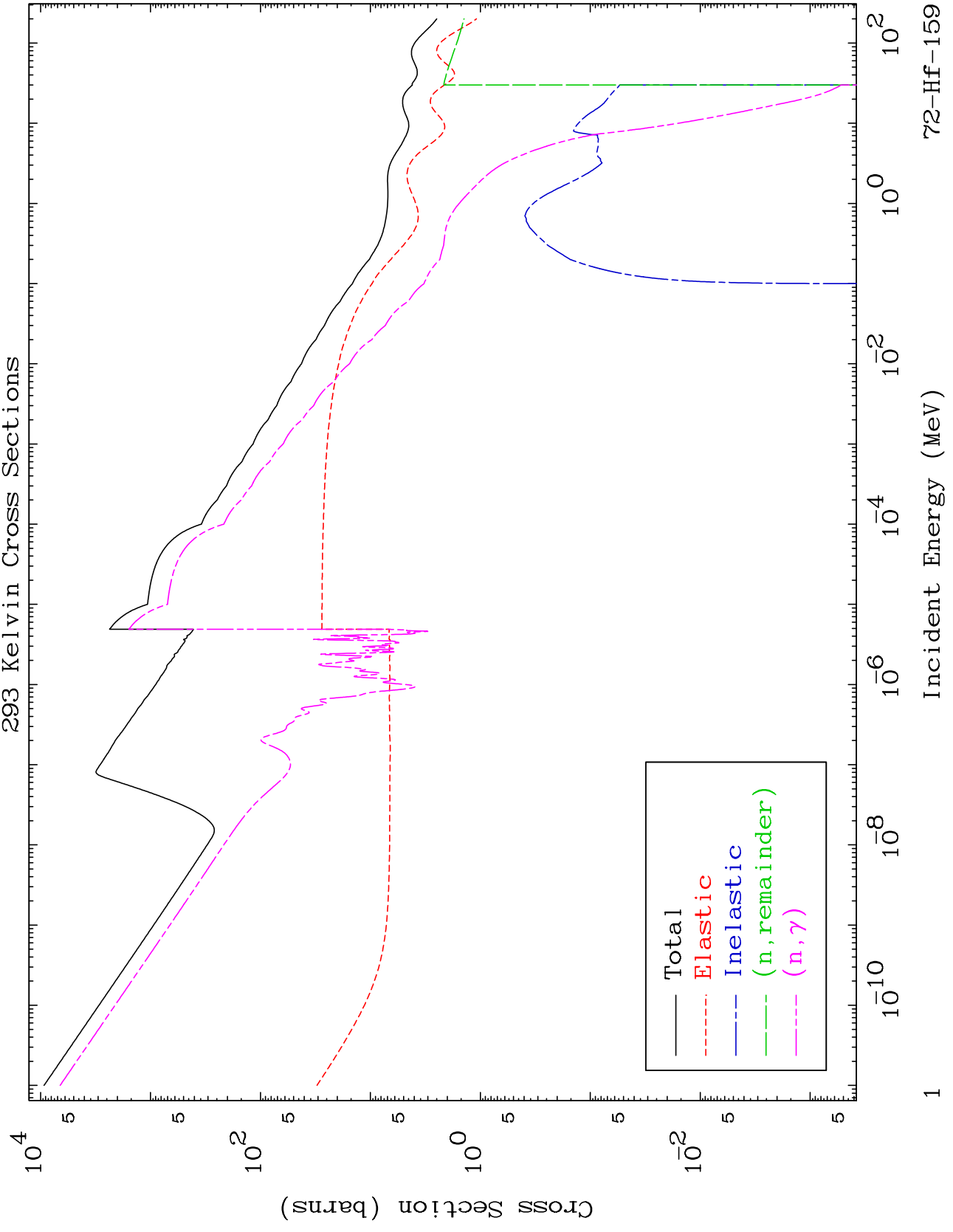
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 7180

Major
293 Kelvin Cross Sections

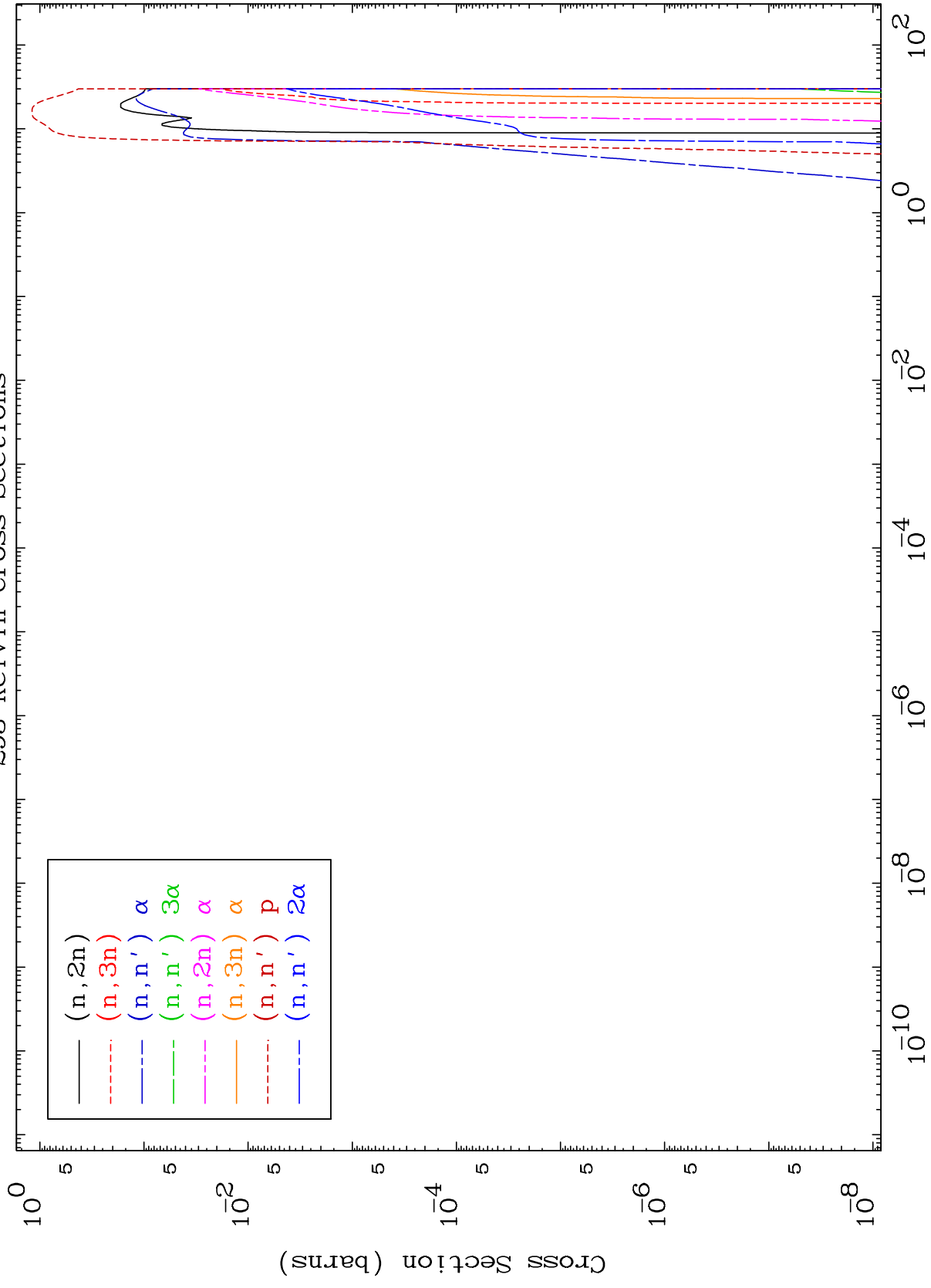
72-Hf-159



MAT 7180

Neutron Production
293 Kelvin Cross Sections

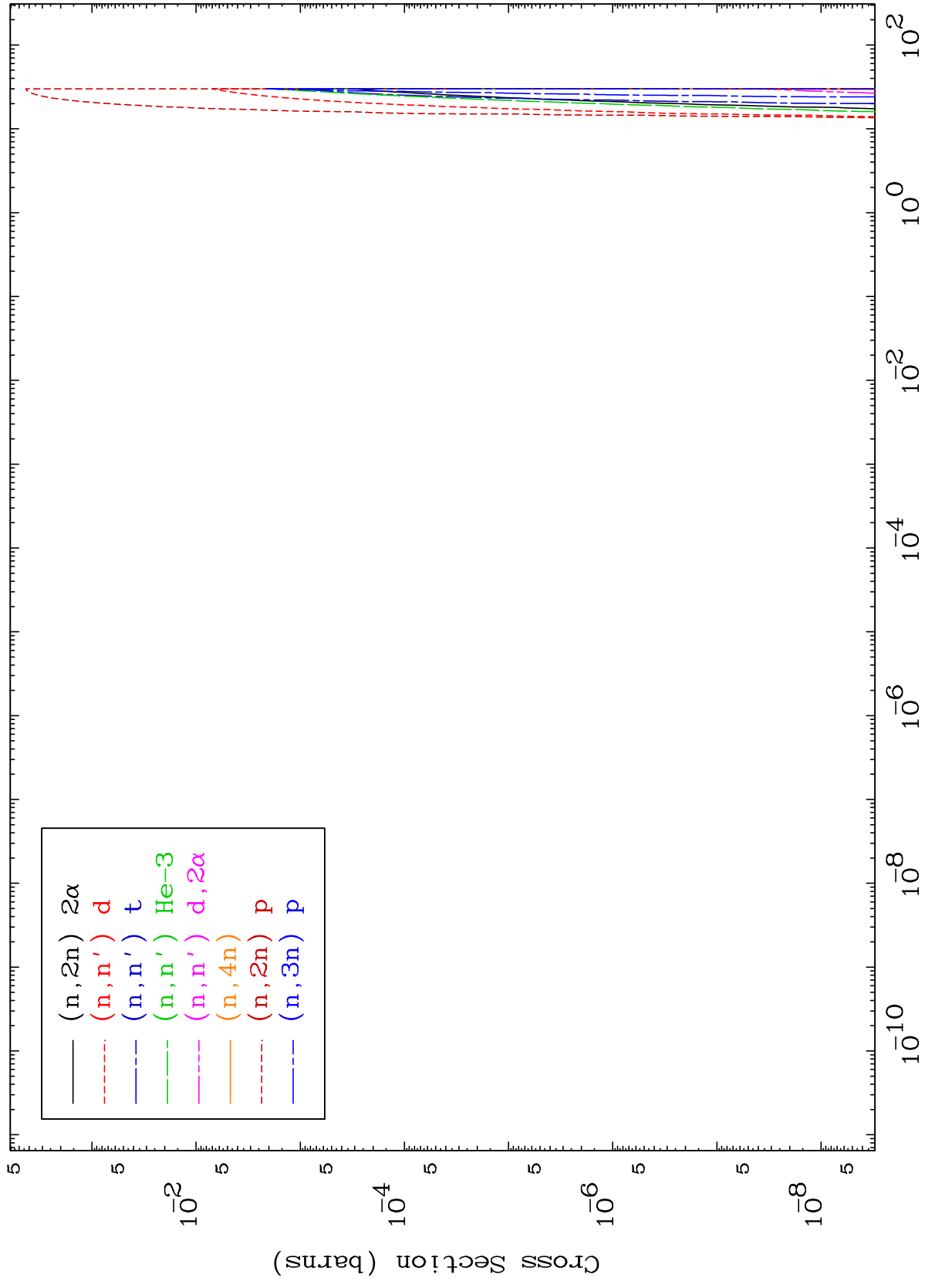
72-Hf-159



2

Incident Energy (MeV)

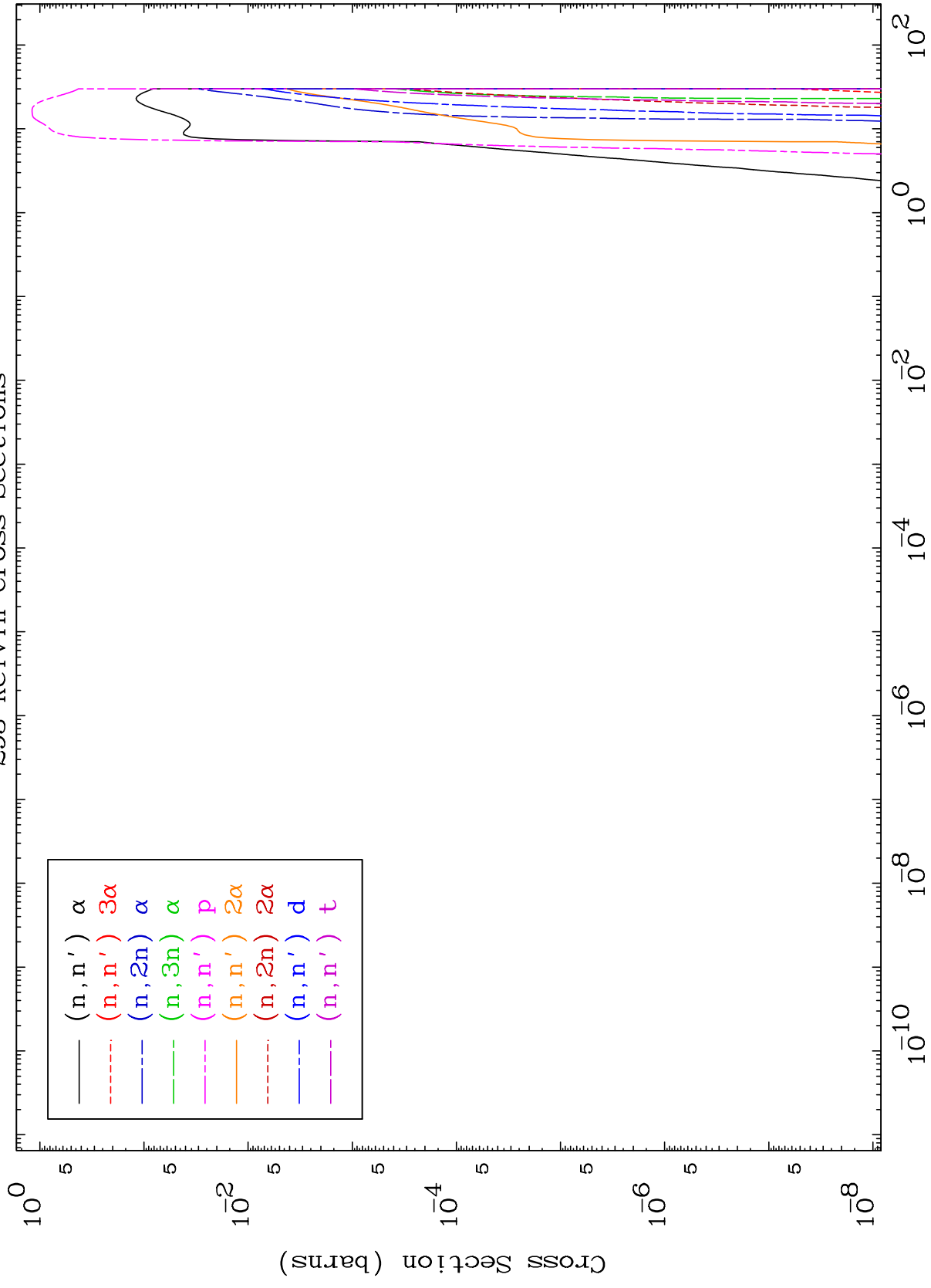
72-Hf-159



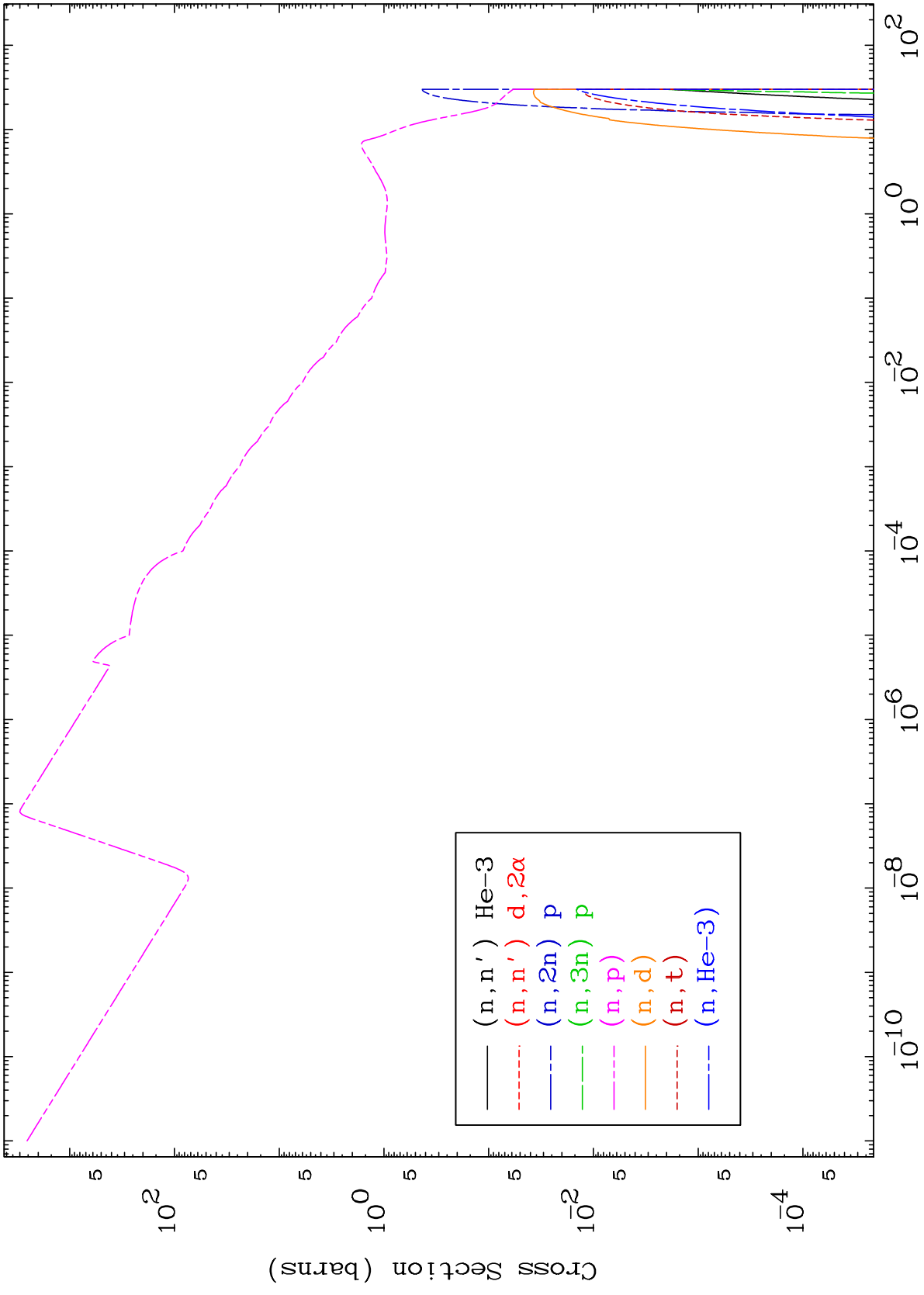
MAT 7180

293 Kelvin Cross Sections

72-Hf-159



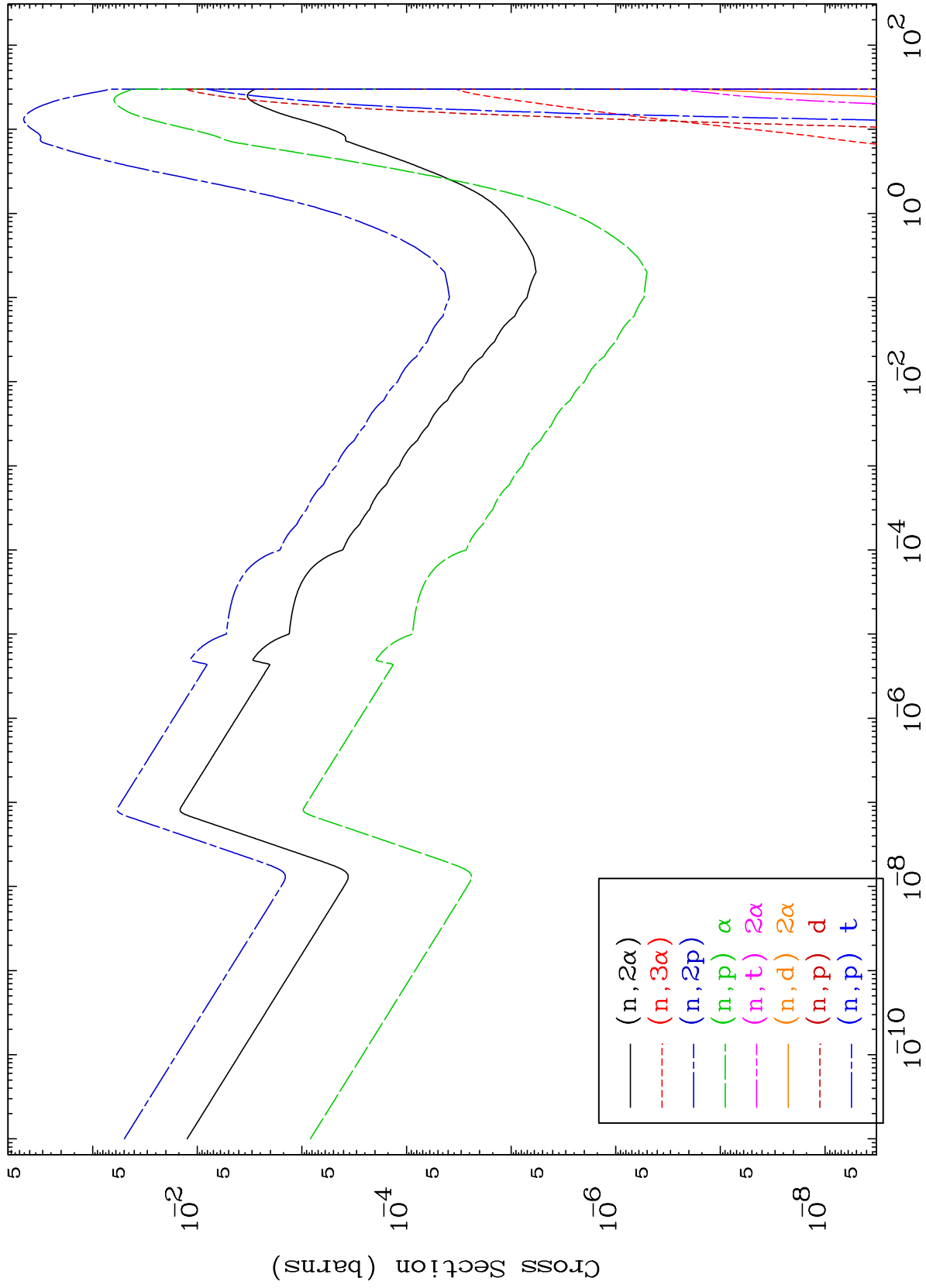
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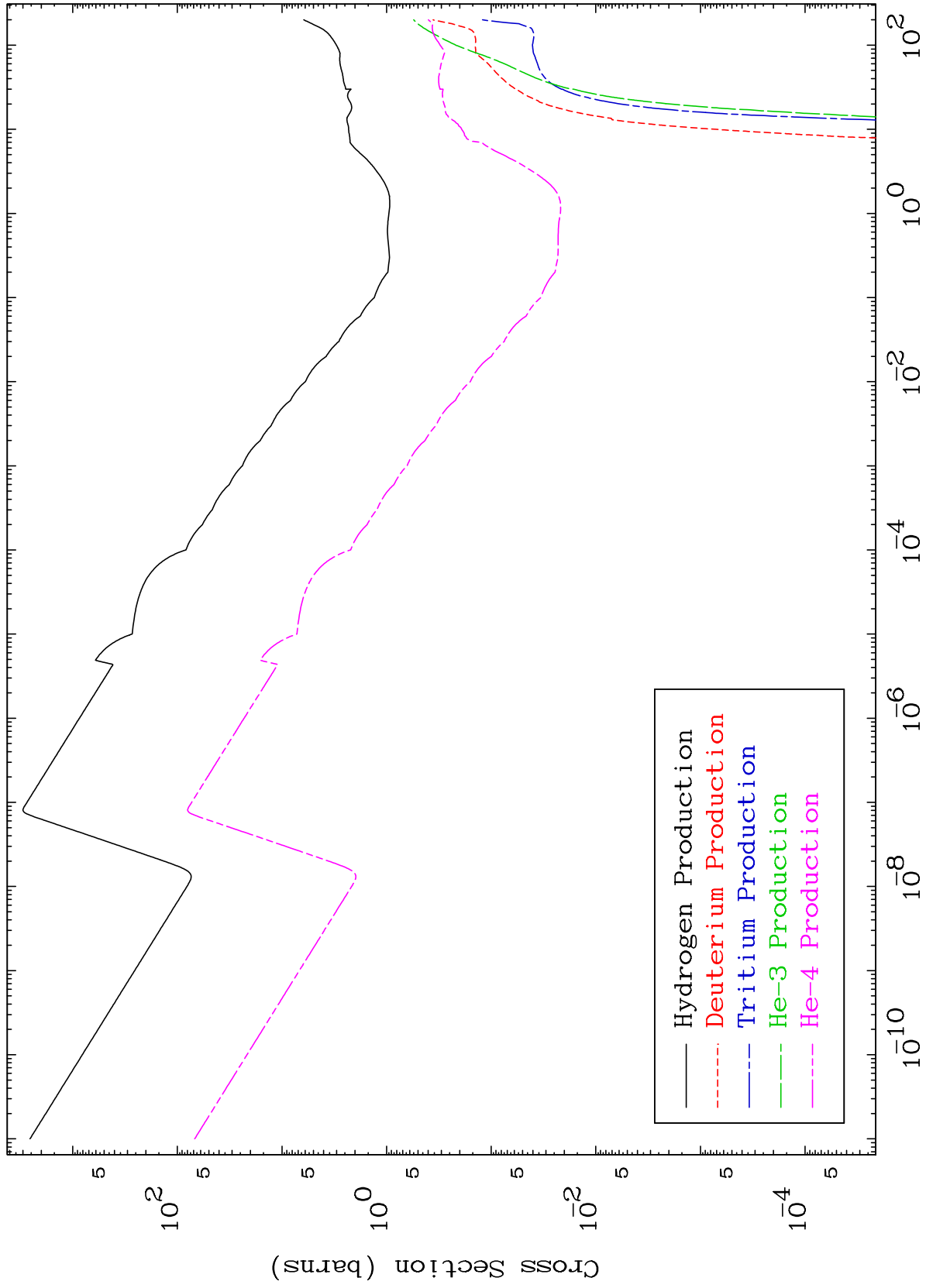


MAT 7180

Charged Particle
293 Kelvin Cross Sections

72-Hf-159

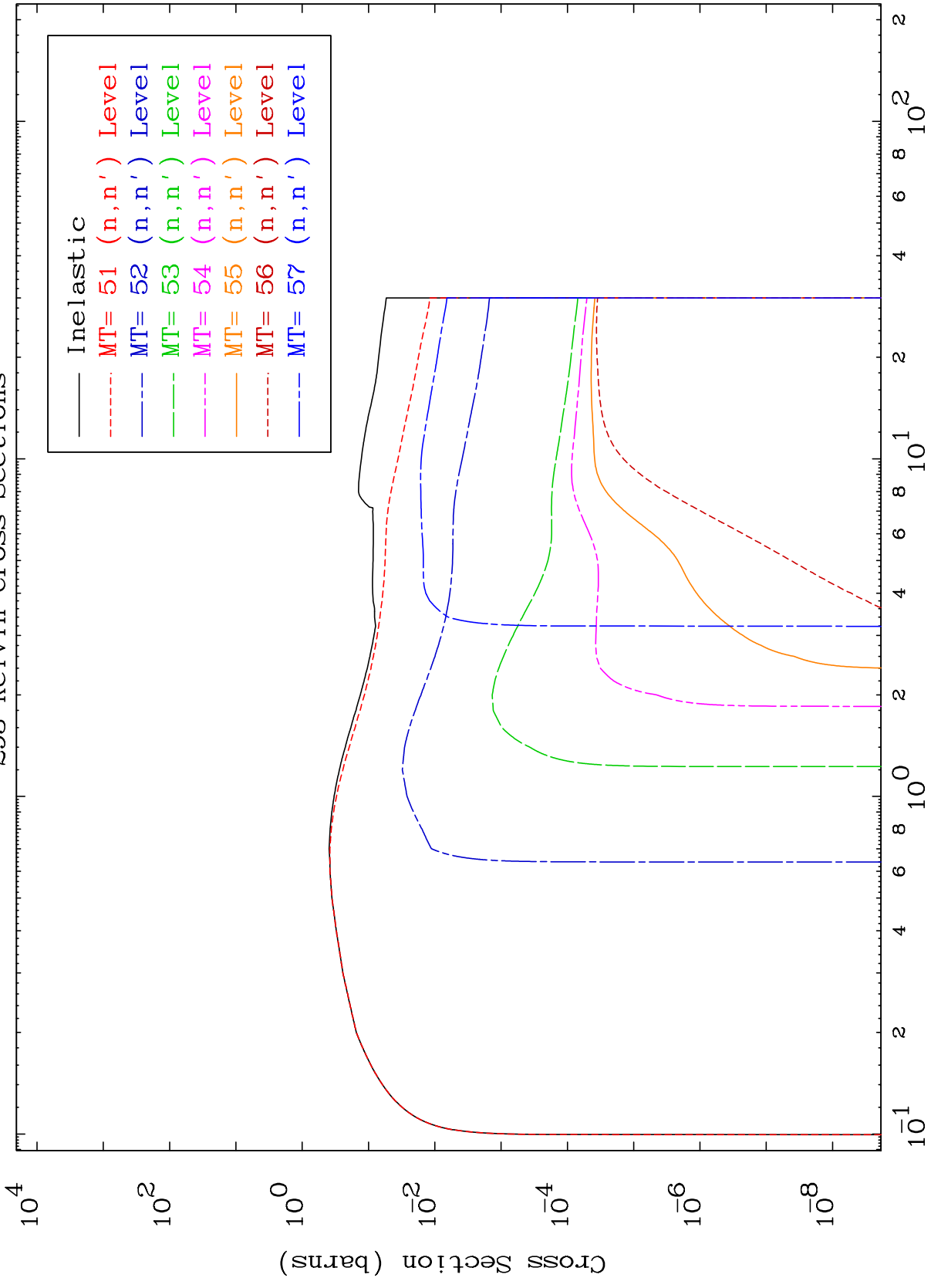




MAT 7180

(n,n') Level
293 Kelvin Cross Sections

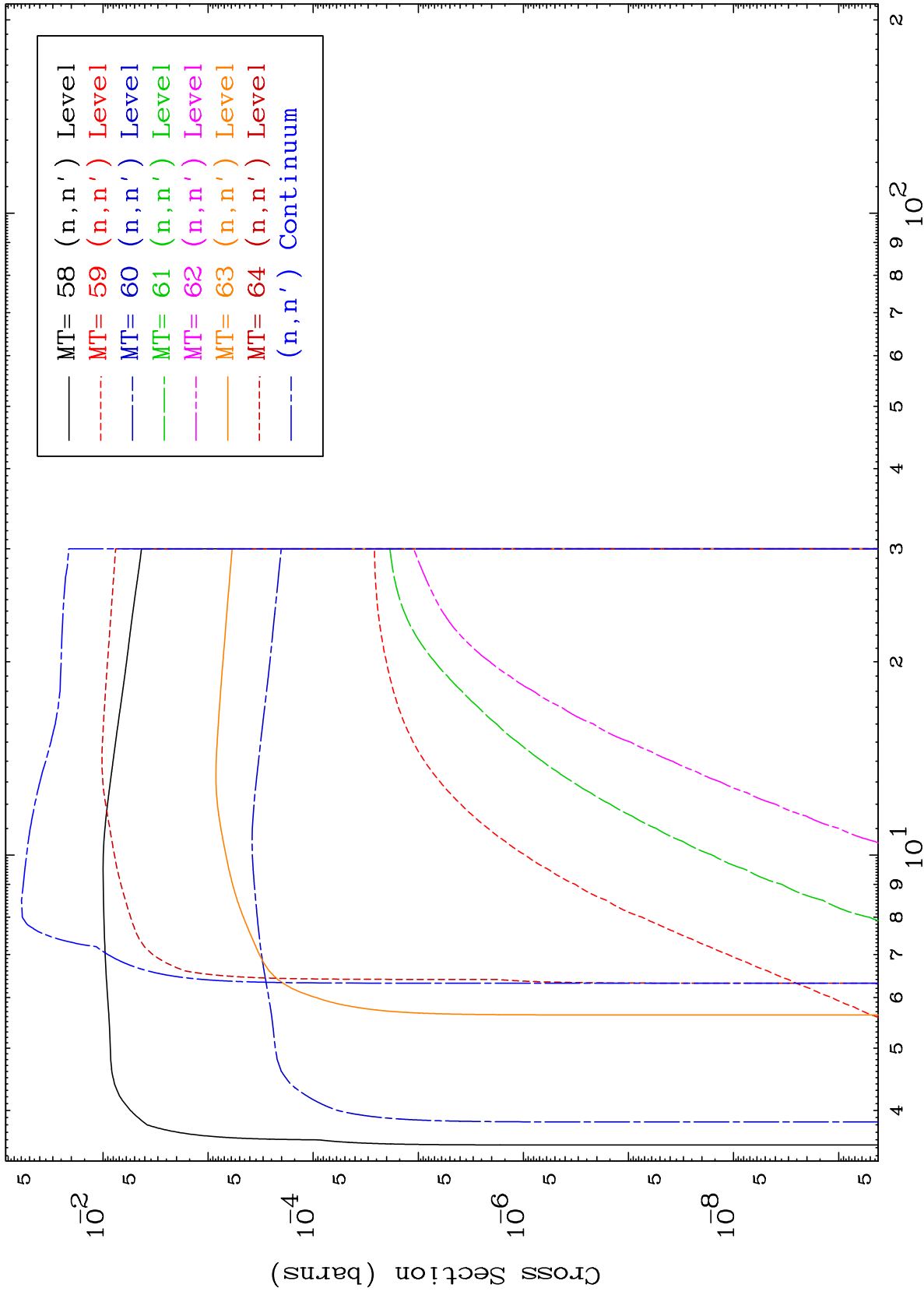
72-Hf-159



8

Incident Energy (MeV)

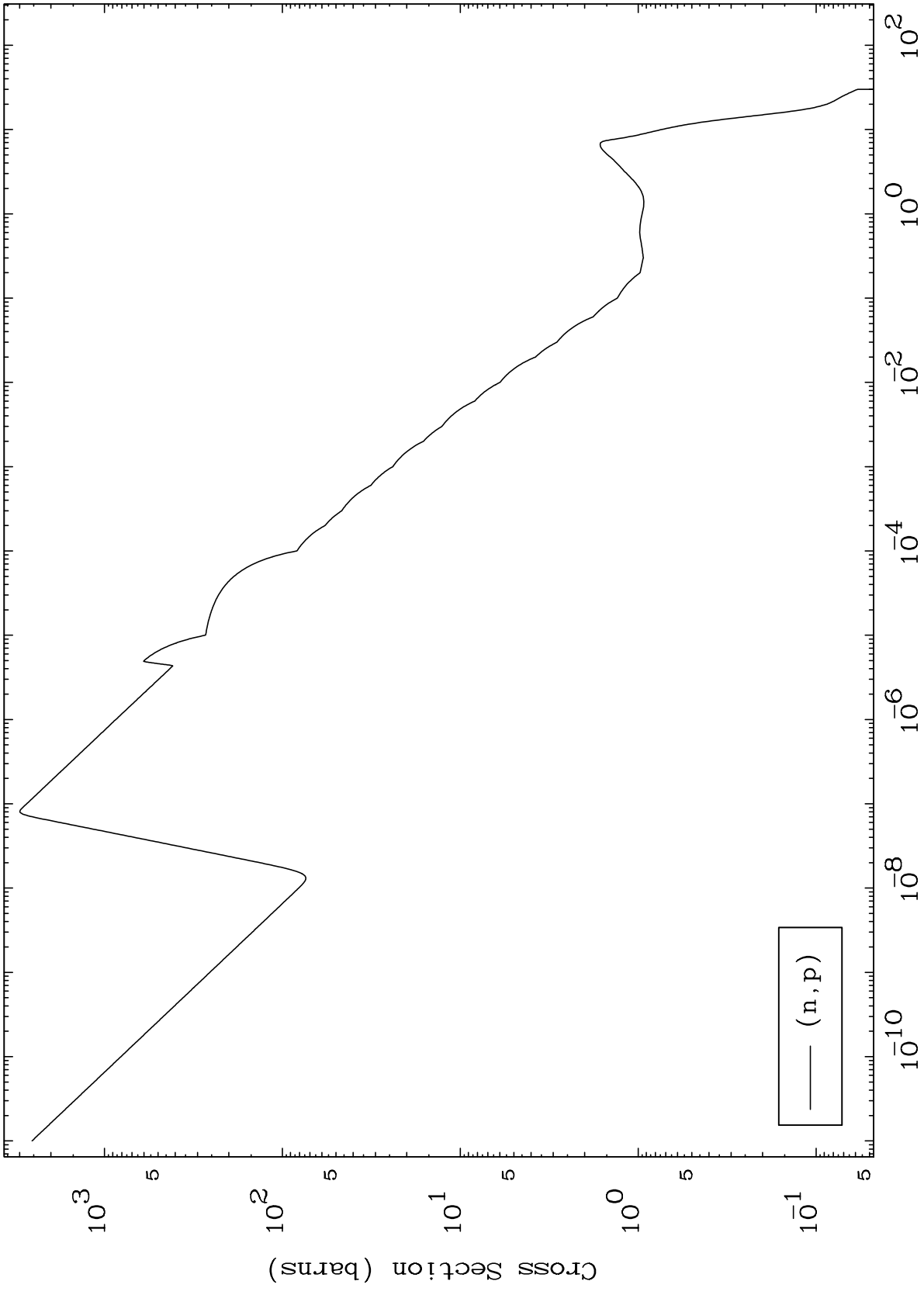
72-Hf-159



MAT 7180

(n,p) Levels
293 Kelvin Cross Sections

72-Hf-159



10

Incident Energy (MeV)

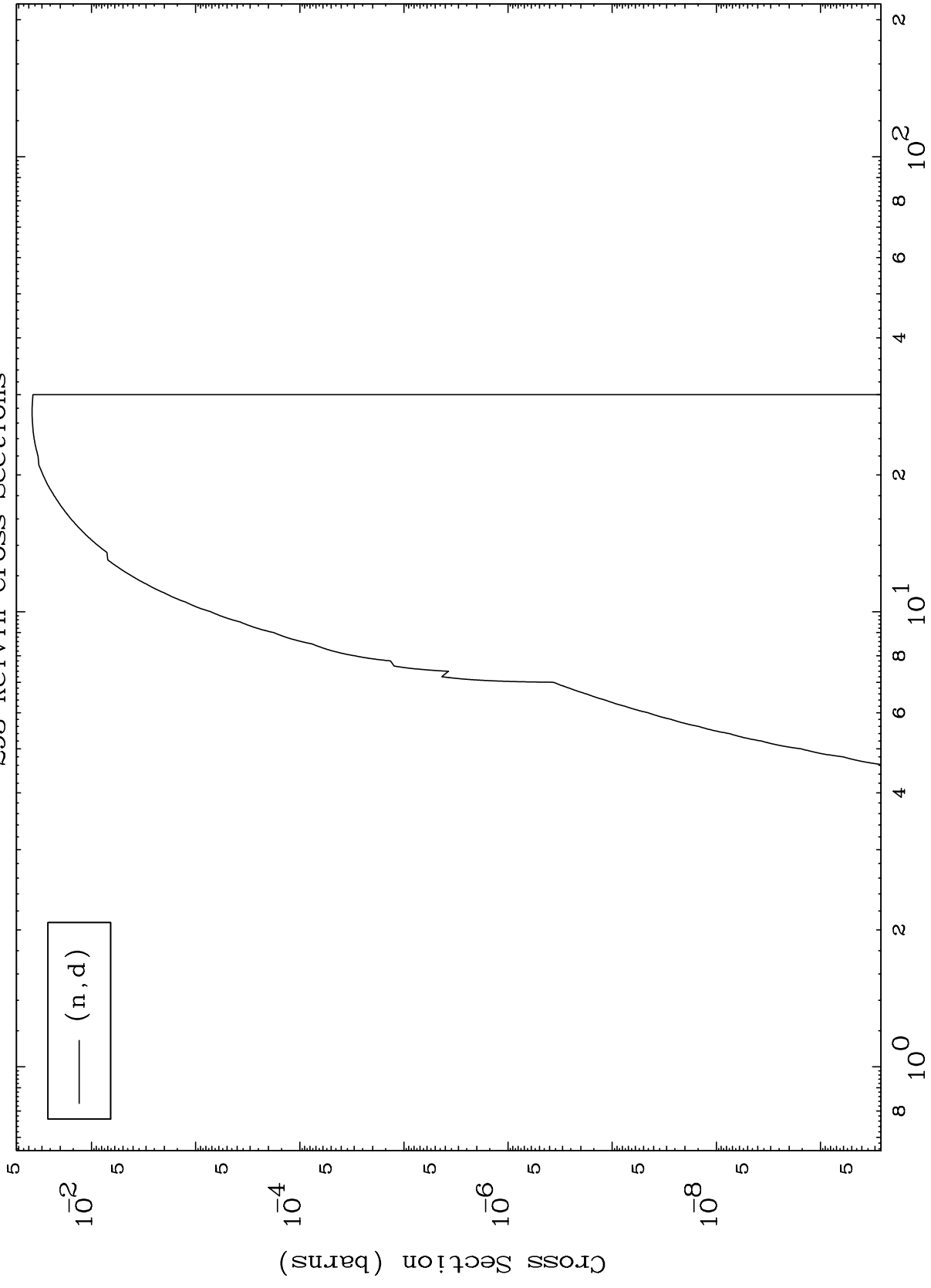
72-Hf-159

(n,p)

MAT 7180

(n,d) Levels
293 Kelvin Cross Sections

72-Hf-159



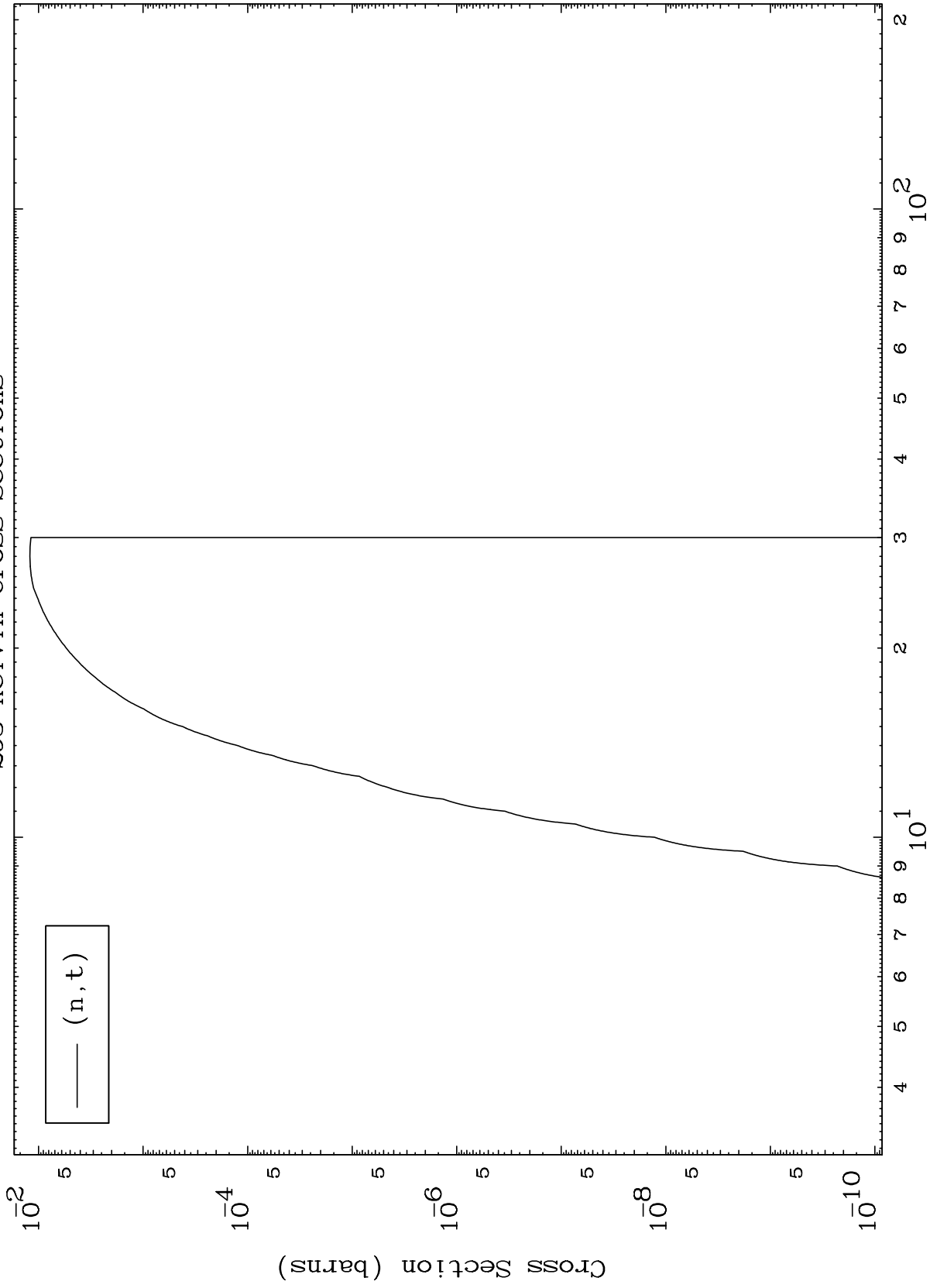
11

72-Hf-159

MAT 7180

(n,t) Levels
293 Kelvin Cross Sections

72-Hf-159



12

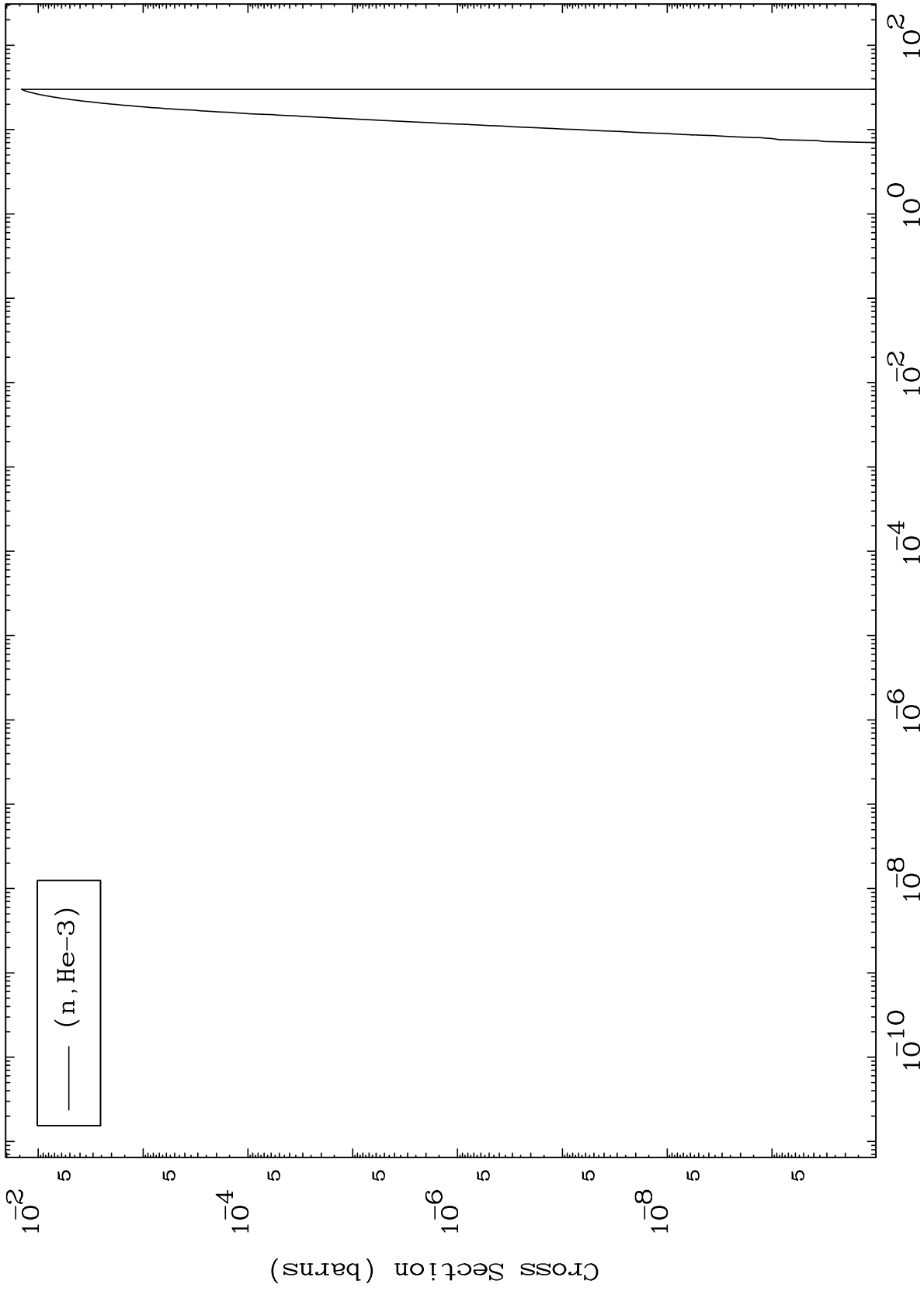
Incident Energy (MeV)

72-Hf-159

MAT 7180

(n,He3) Levels
293 Kelvin Cross Sections

72-Hf-159



13

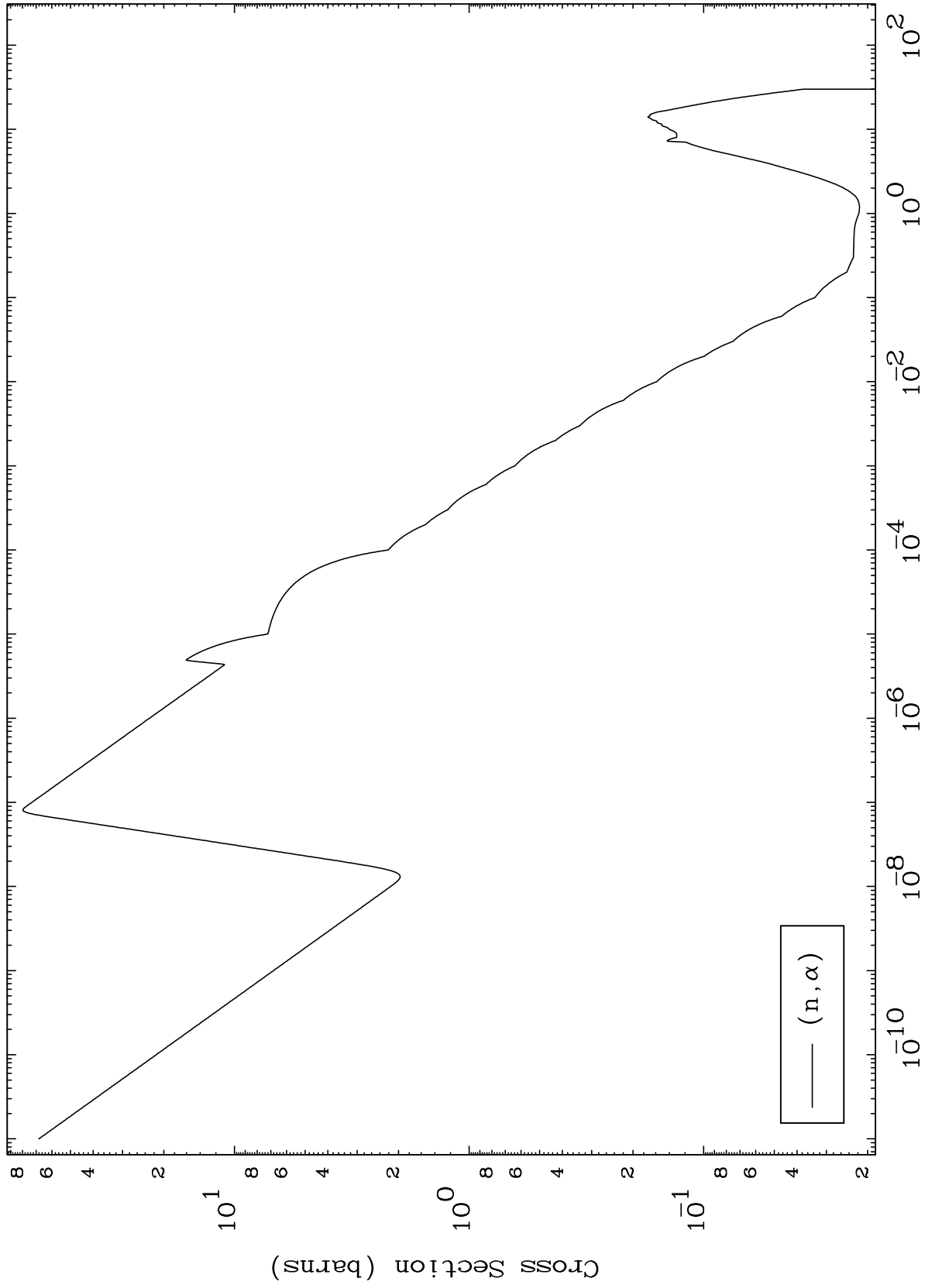
Incident Energy (MeV)

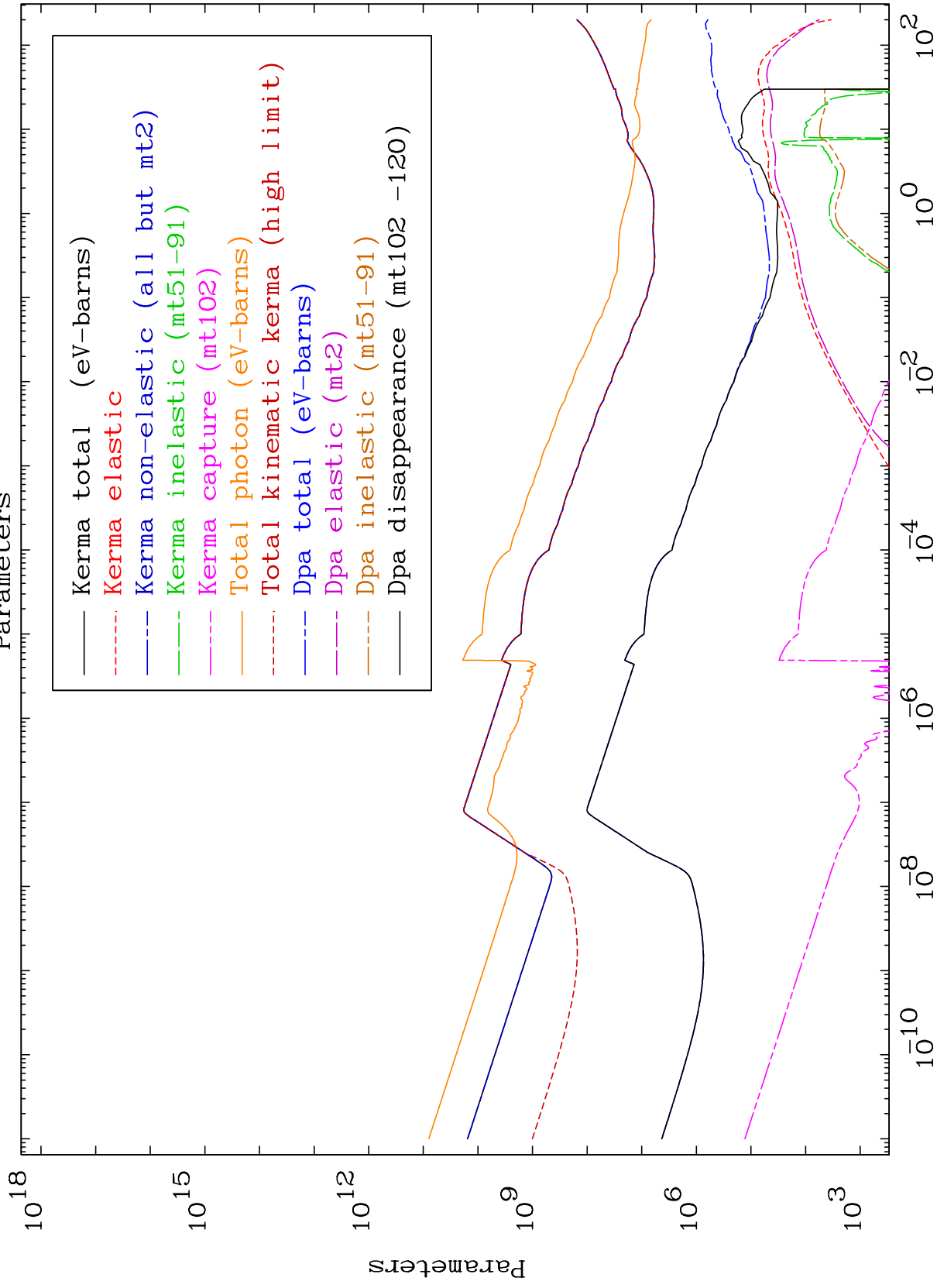
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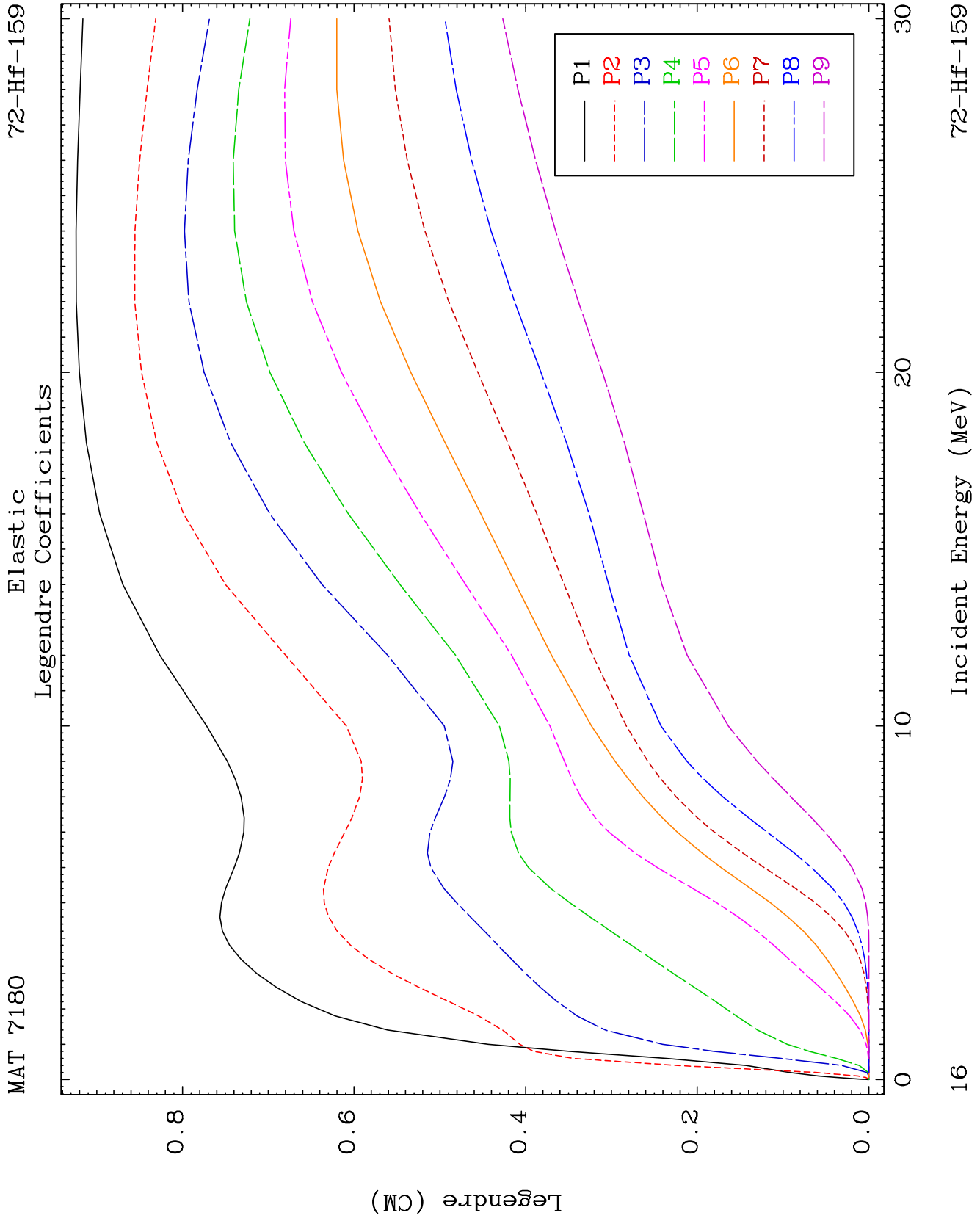
MAT 7180

(n,α) Levels
293 Kelvin Cross Sections

72-Hf-159



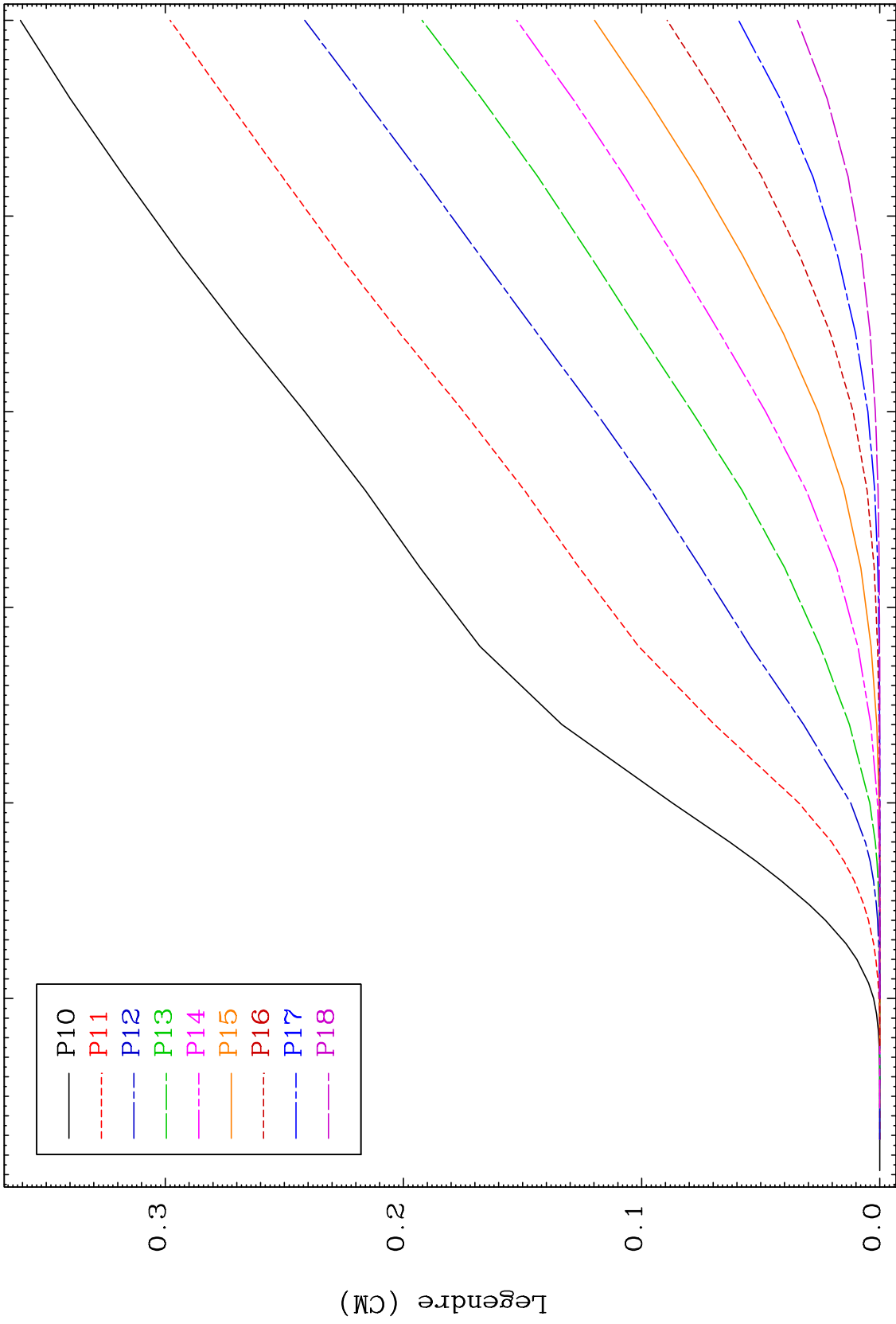




MAT 7180

Elastic Legendre Coefficients

72-Hf-159



17

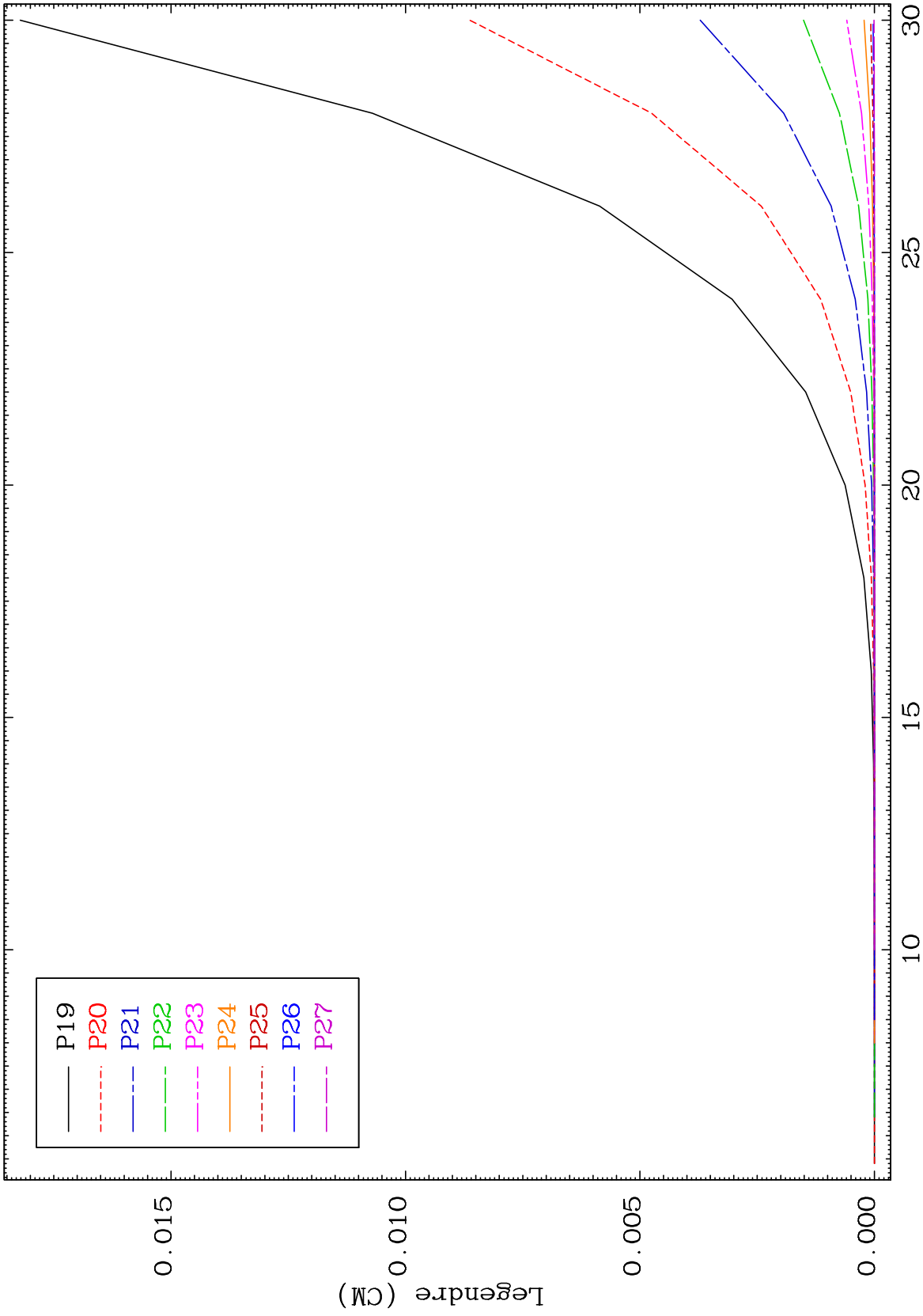
Incident Energy (MeV)

72-Hf-159

MAT 7180

Elastic Legendre Coefficients

72-Hf-159



18

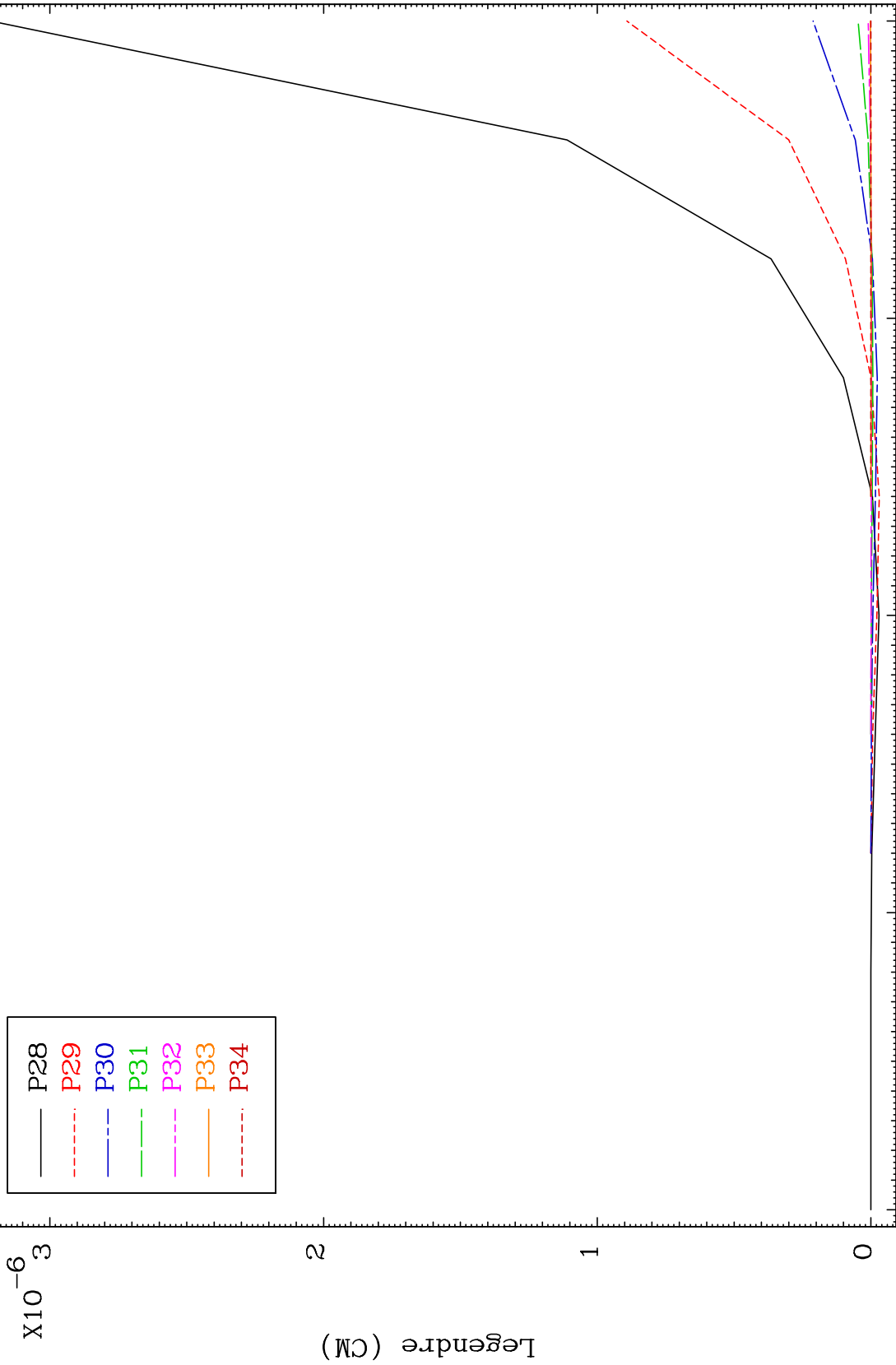
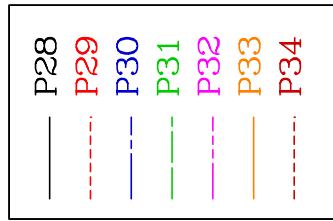
Incident Energy (MeV)

72-Hf-159

MAT 7180

Elastic Legendre Coefficients

72-Hf-159



19

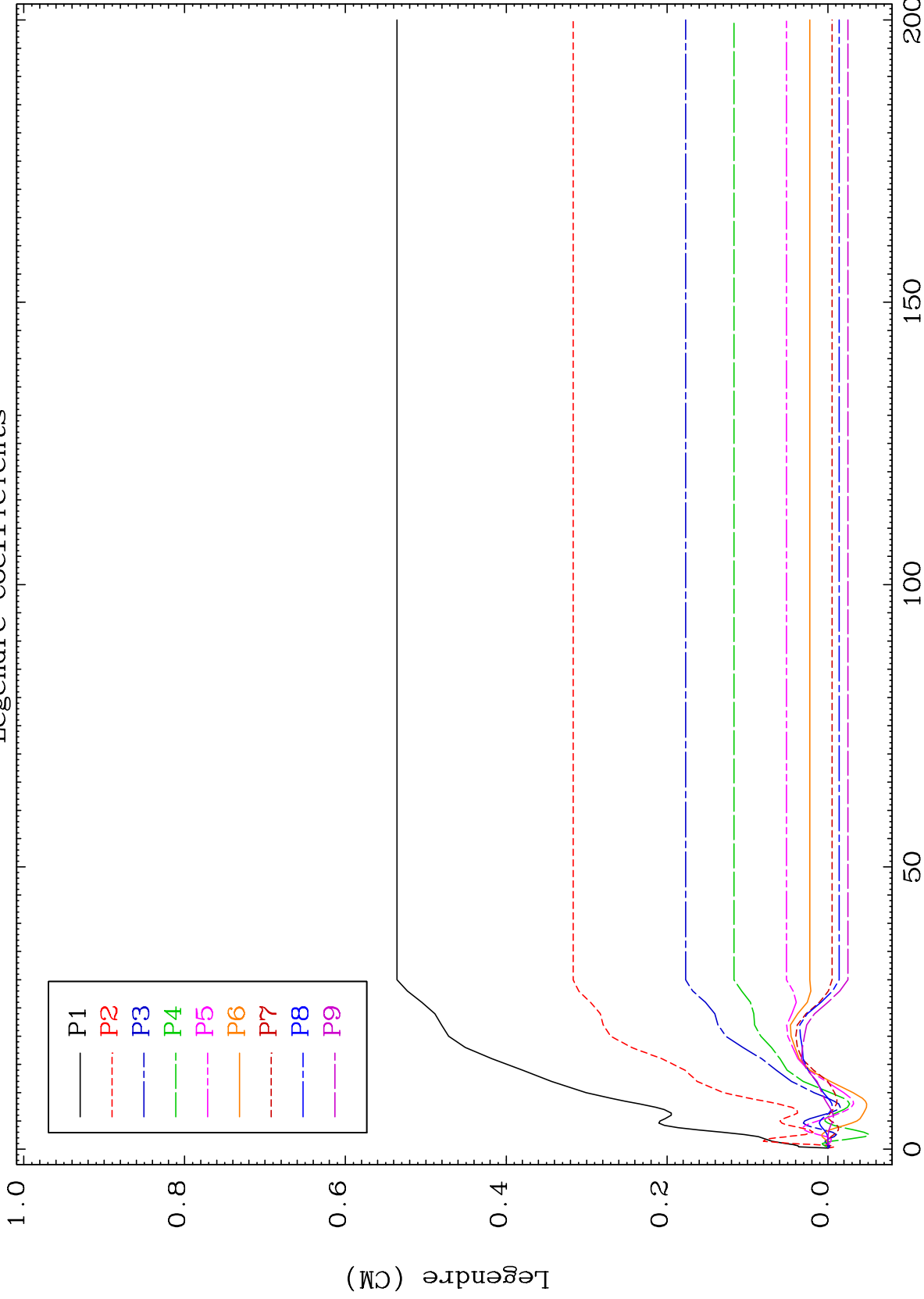
Incident Energy (MeV)

72-Hf-159

MAT 7180

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

72-Hf-159



20

Incident Energy (MeV)

50

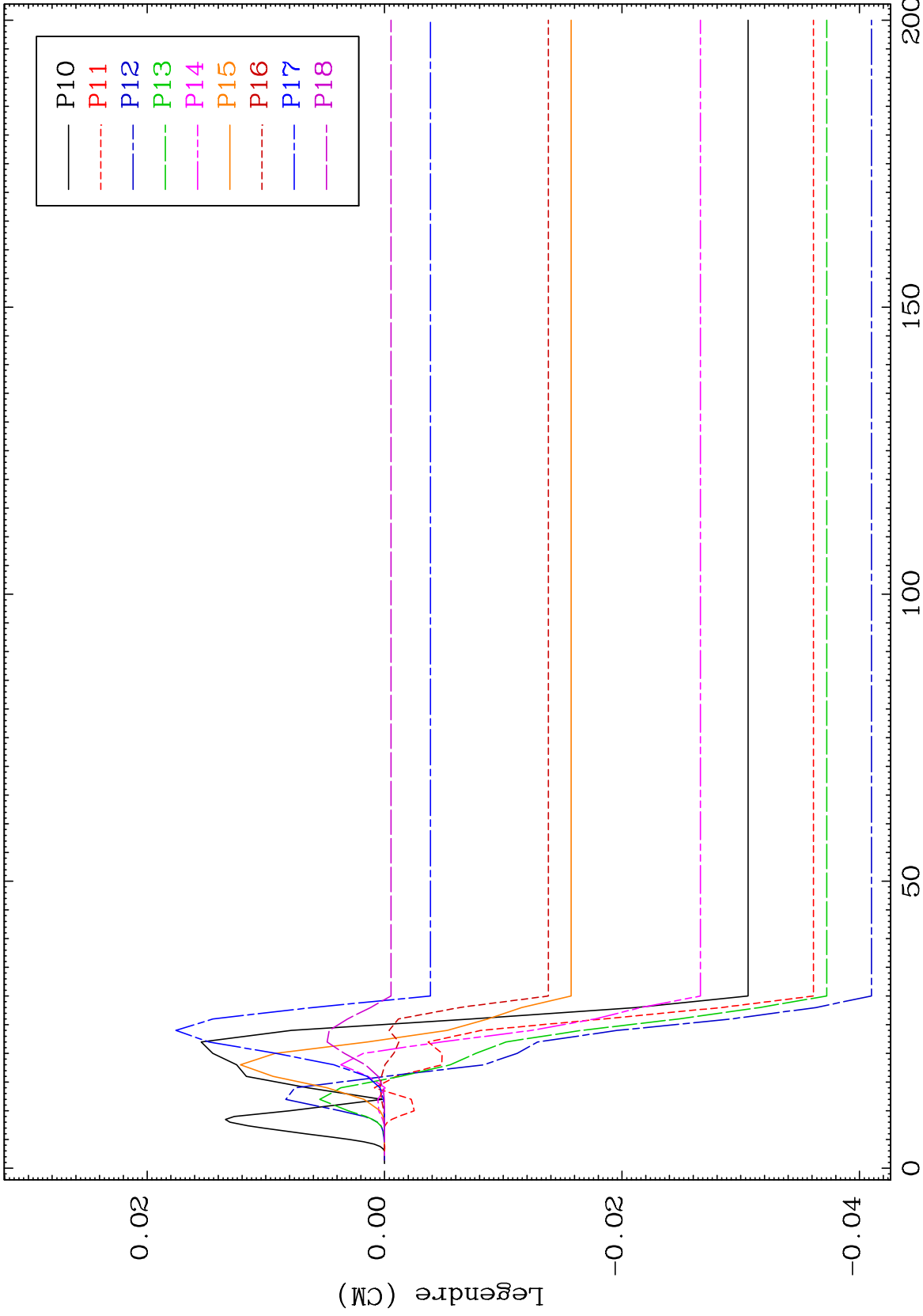
200

72-Hf-159

MAT 7180

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

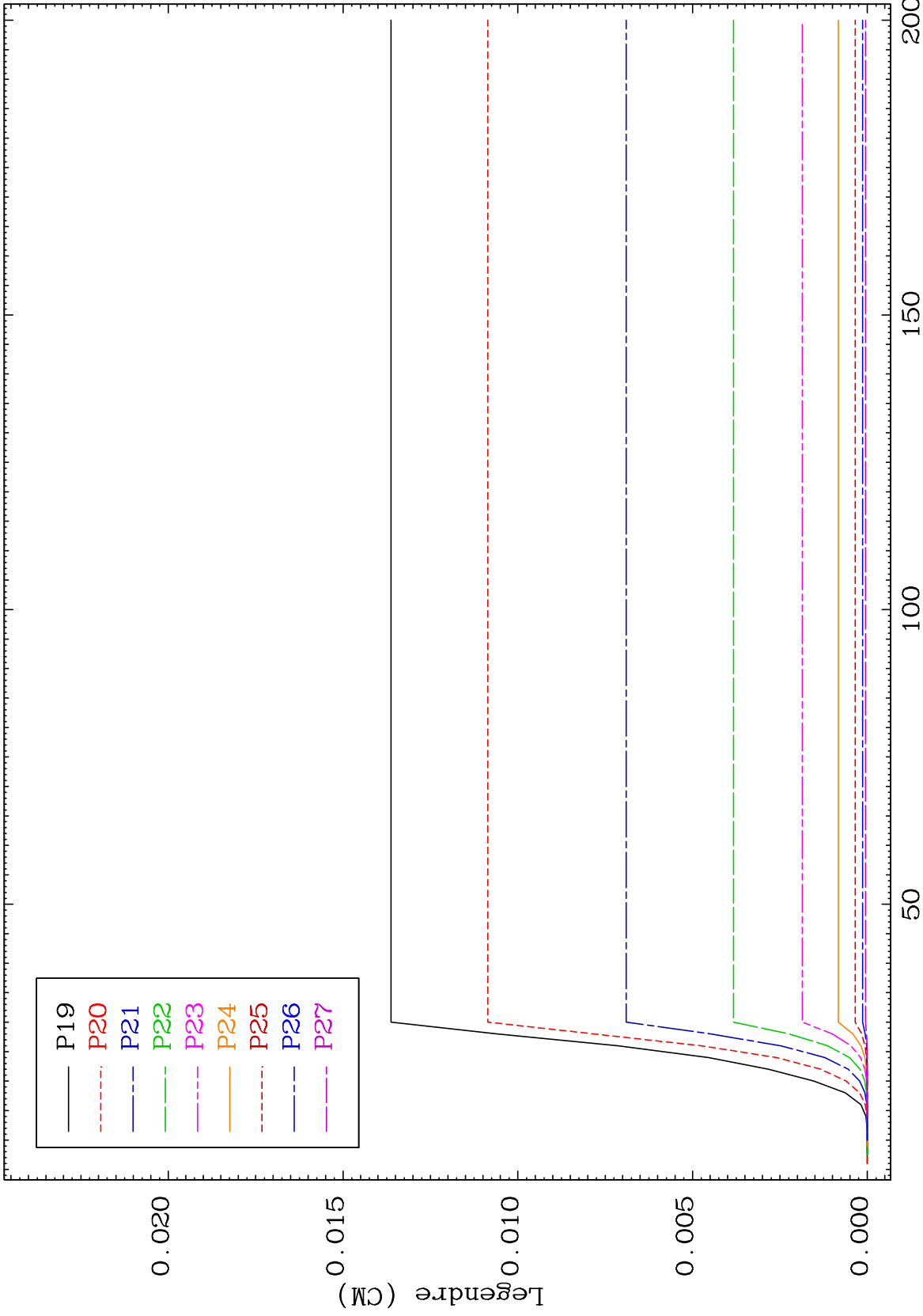
72-Hf-159



21

Incident Energy (MeV)

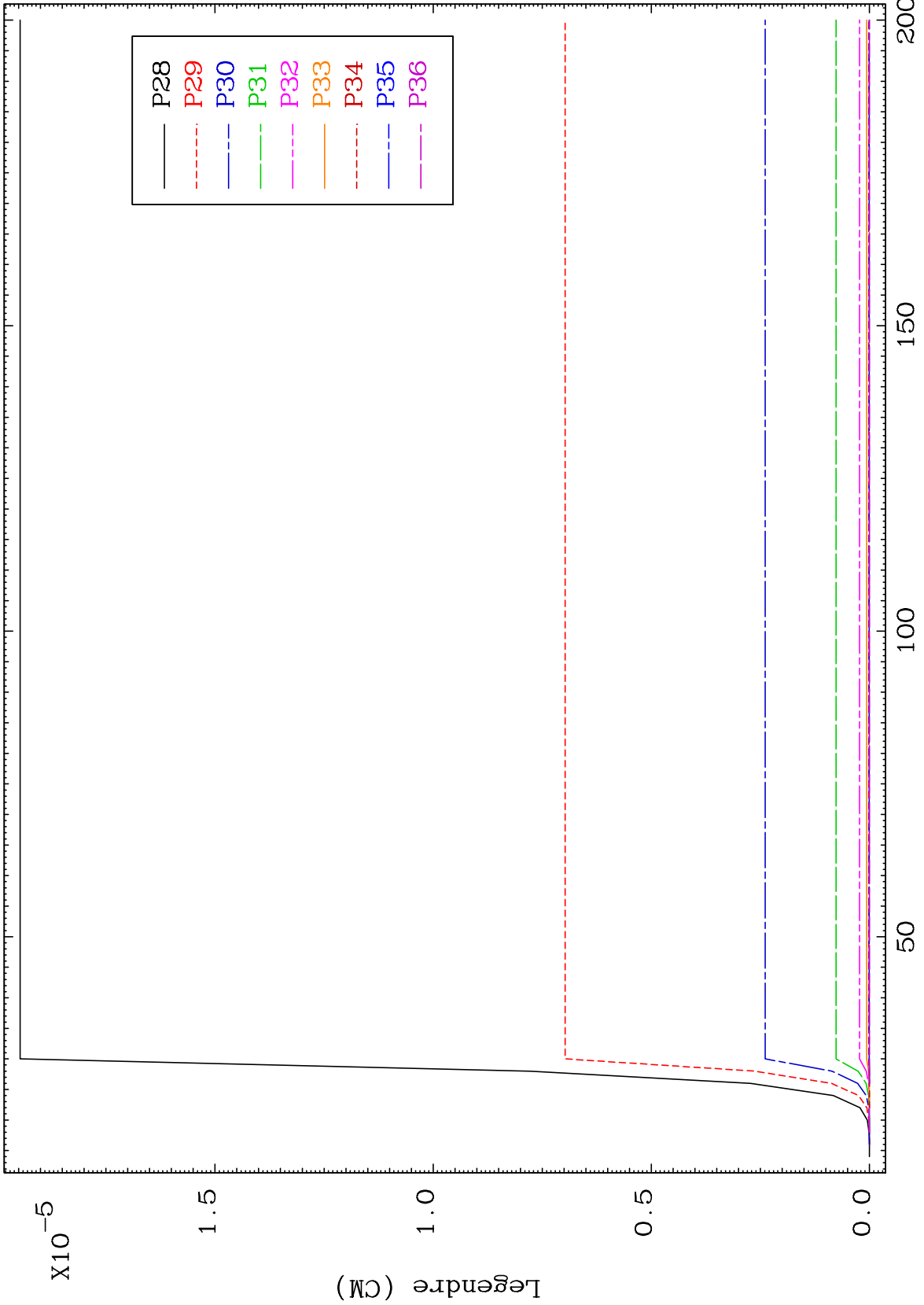
72-Hf-159



MAT 7180

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

72-Hf-159



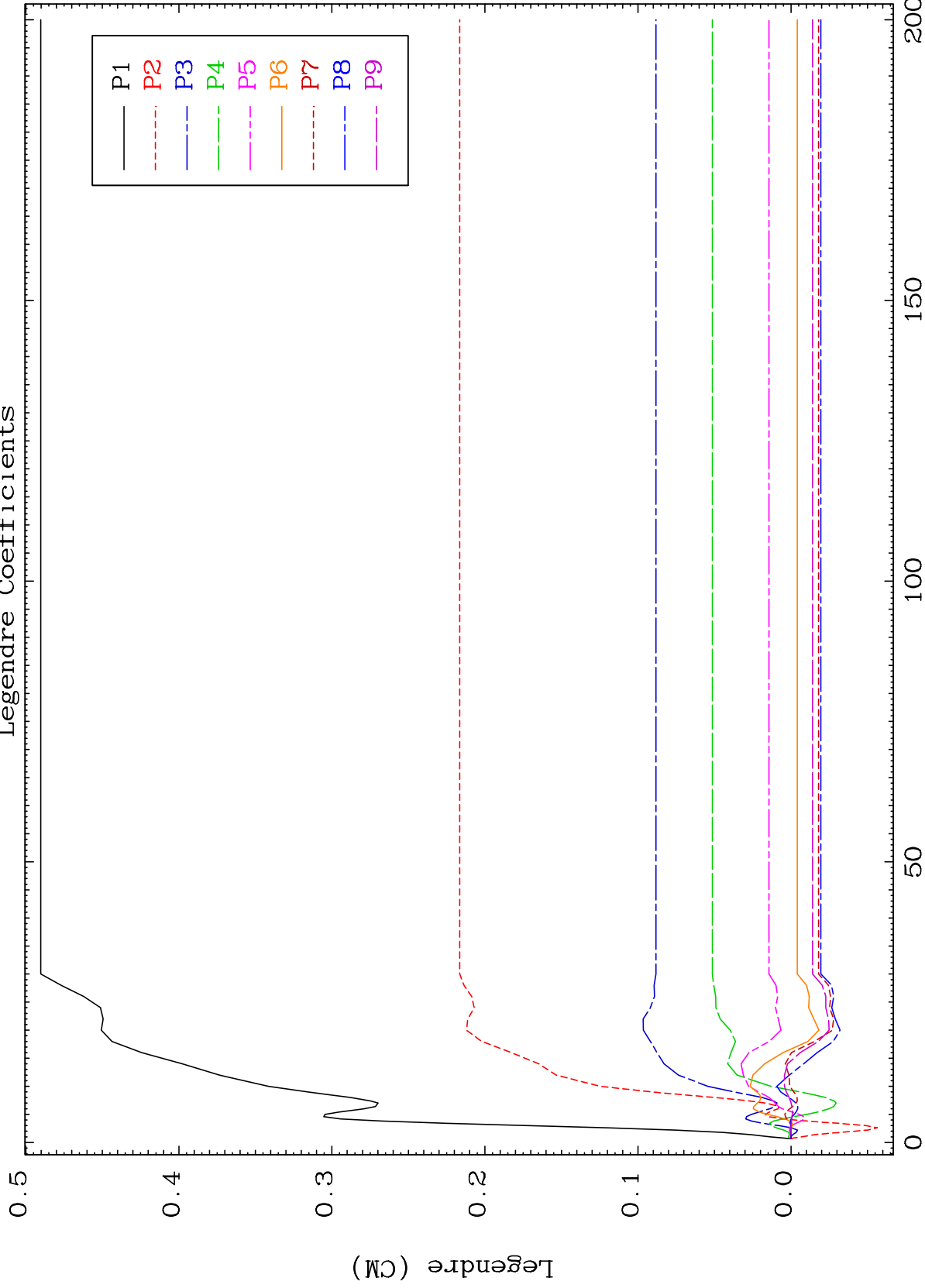
23

72-Hf-159

MAT 7180

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

72-Hf-159



24

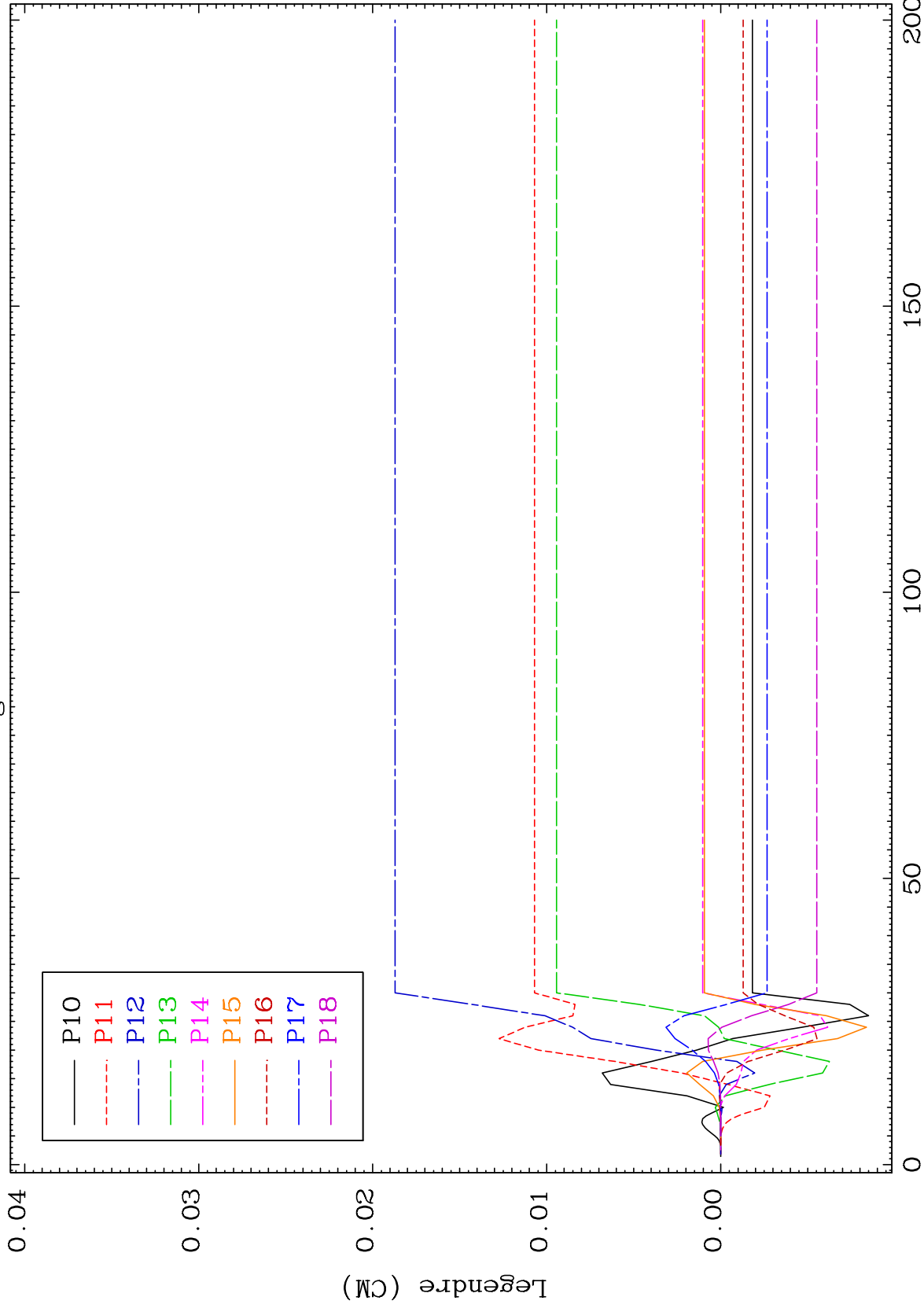
Incident Energy (MeV)

72-Hf-159

MAT 7180

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

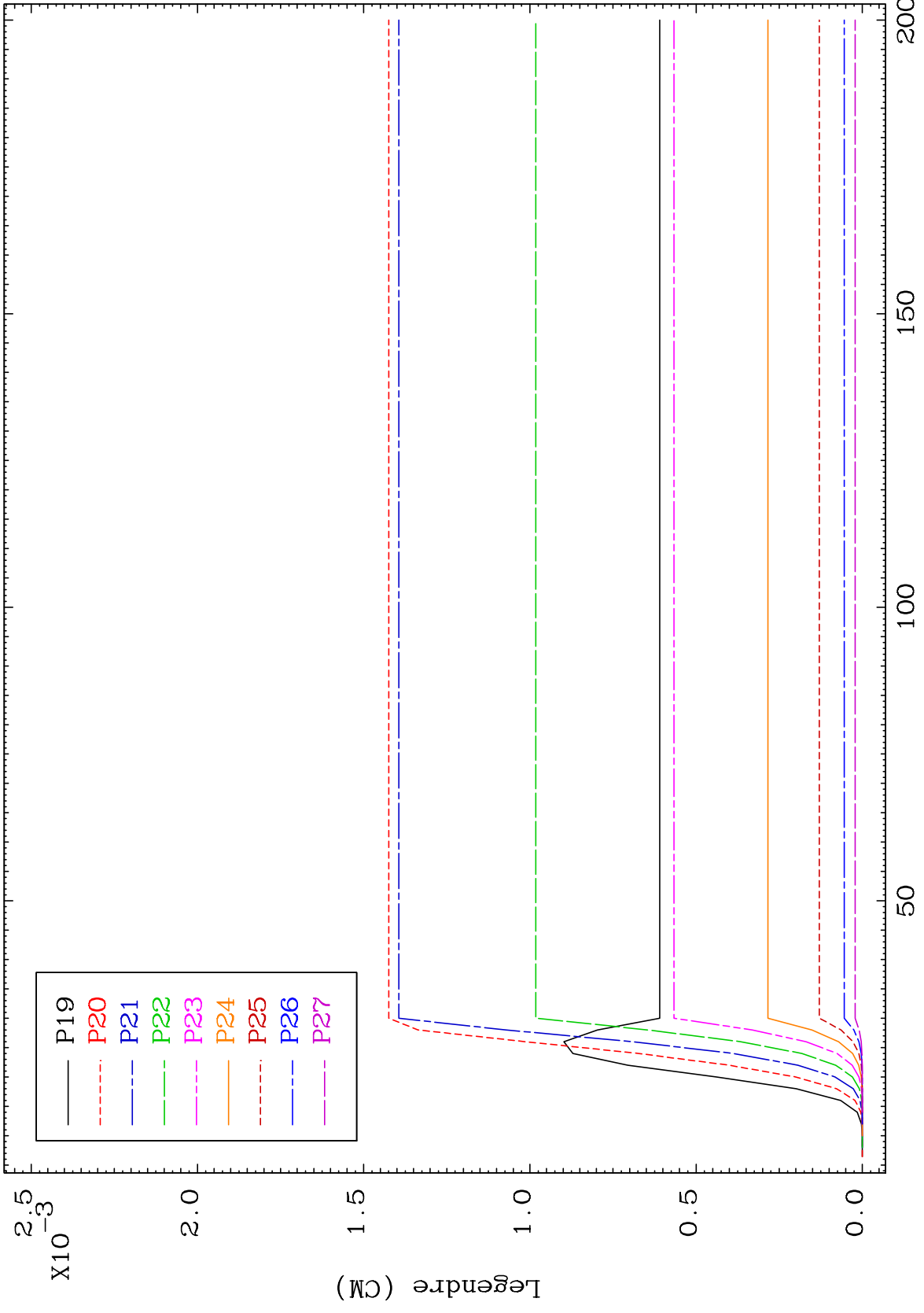
72-Hf-159



25

Incident Energy (MeV)

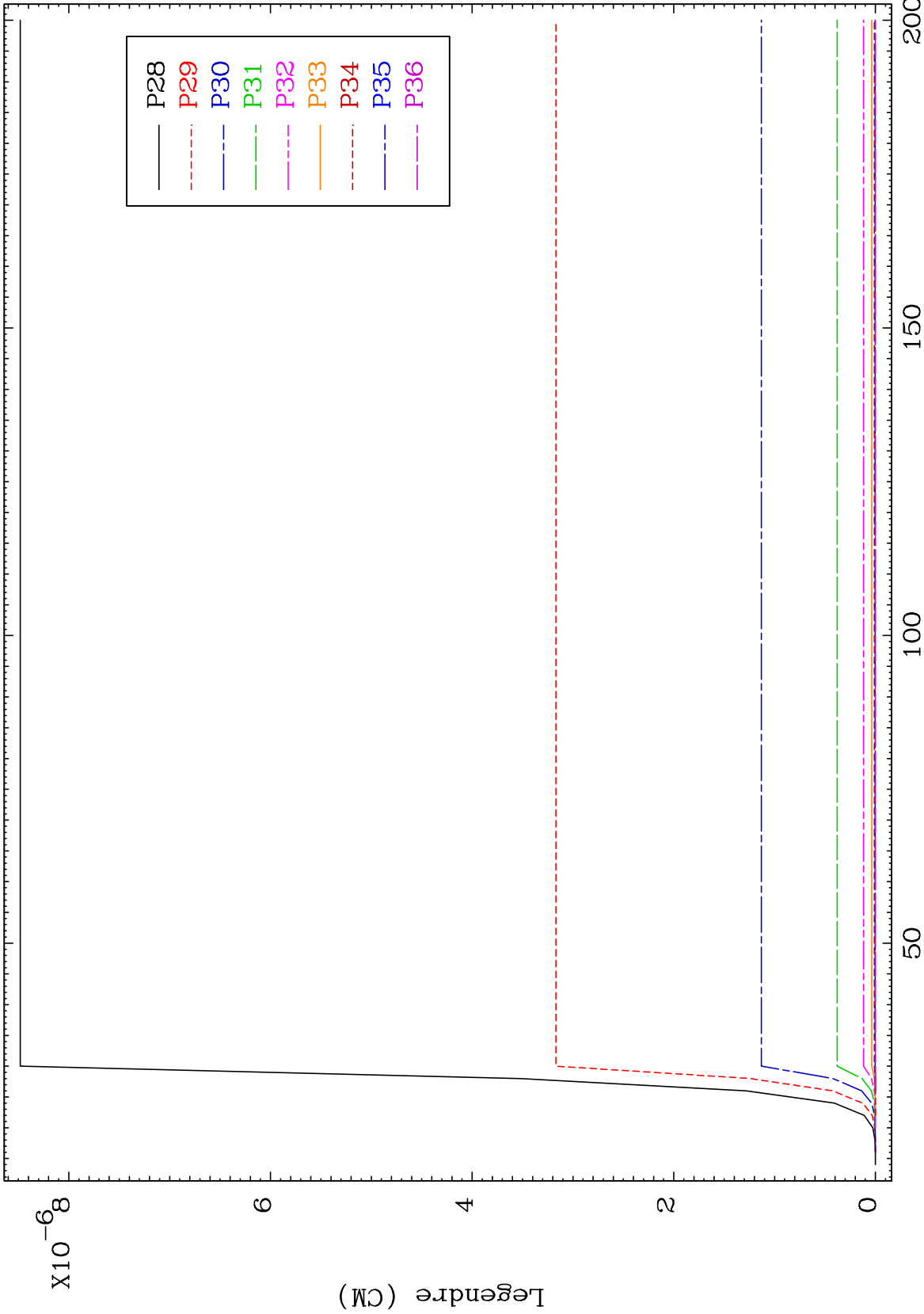
72-Hf-159



MAT 7180

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

72-Hf-159



27

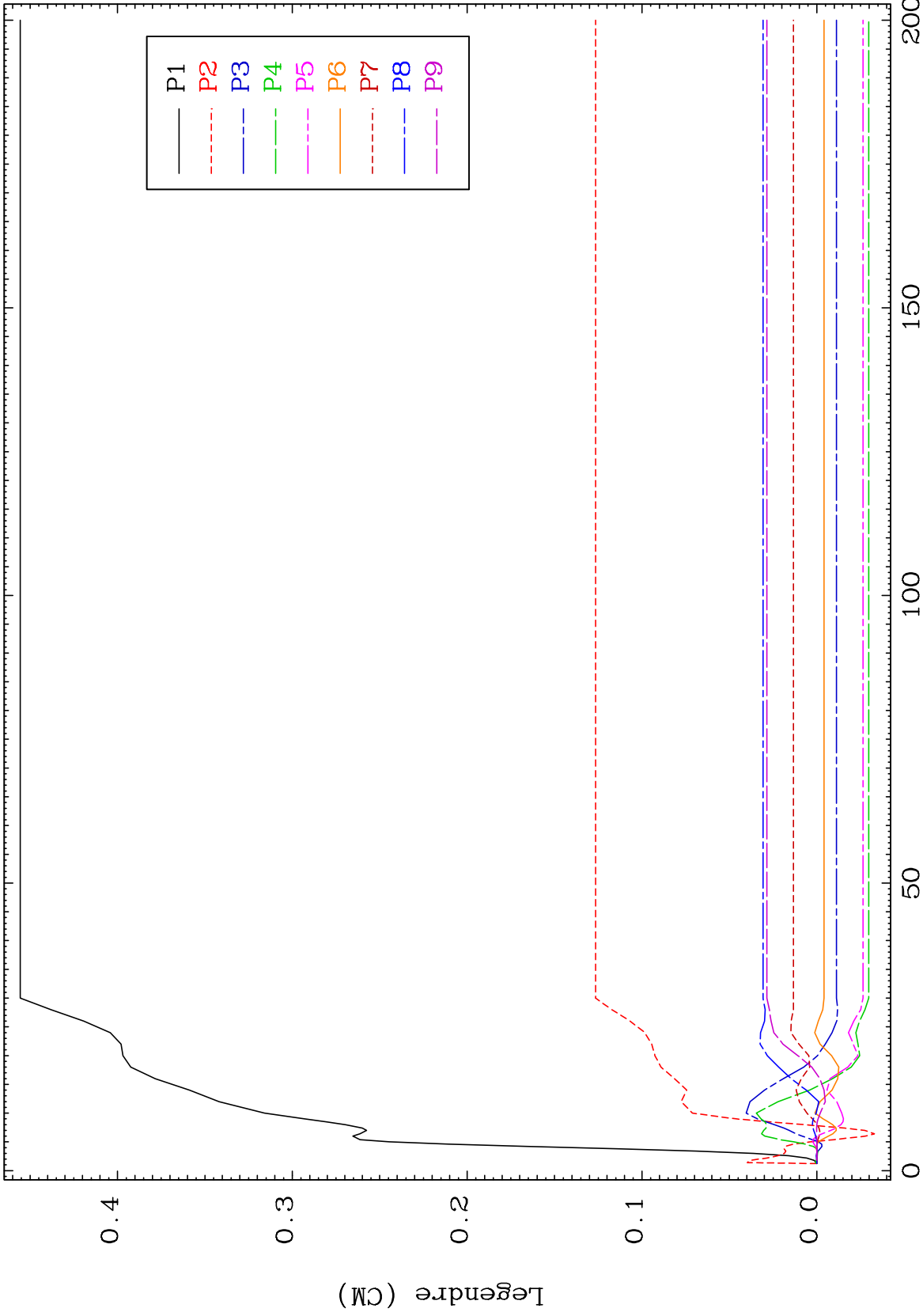
Incident Energy (MeV)

72-Hf-159

MAT 7180

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

72-Hf-159



28

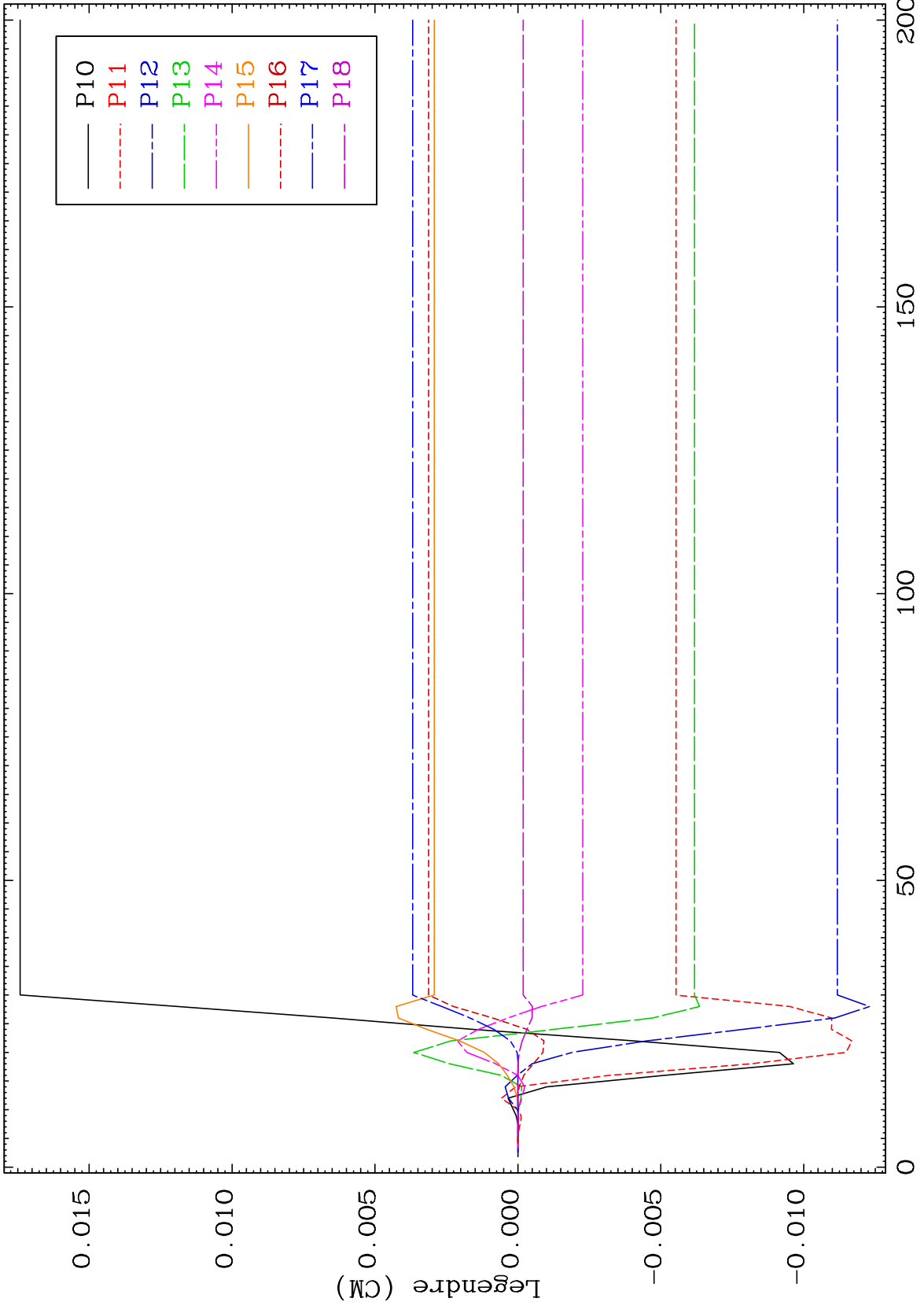
Incident Energy (MeV)

72-Hf-159

MAT 7180

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

72-Hf-159



29

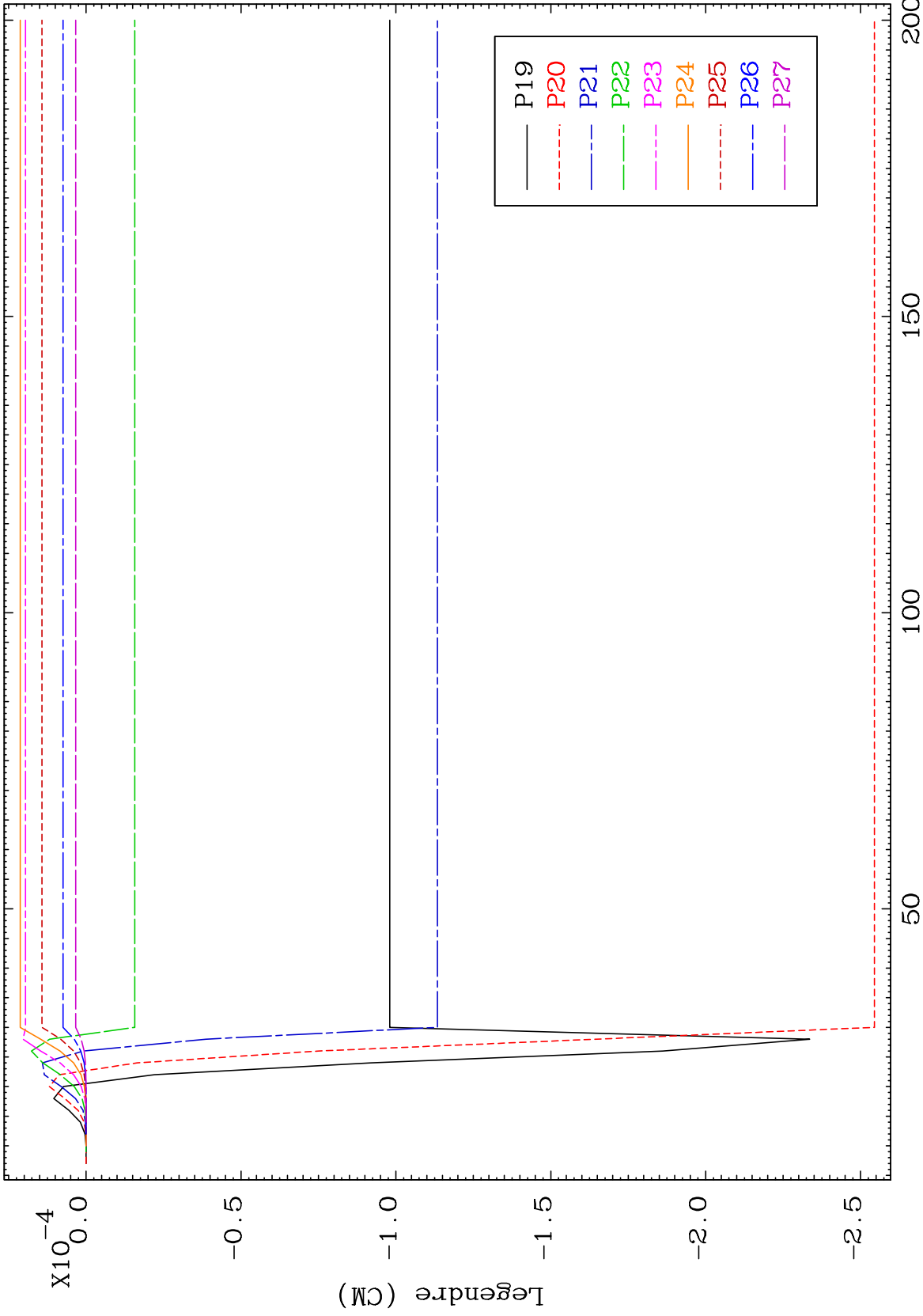
Incident Energy (MeV)

72-Hf-159

MAT 7180

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

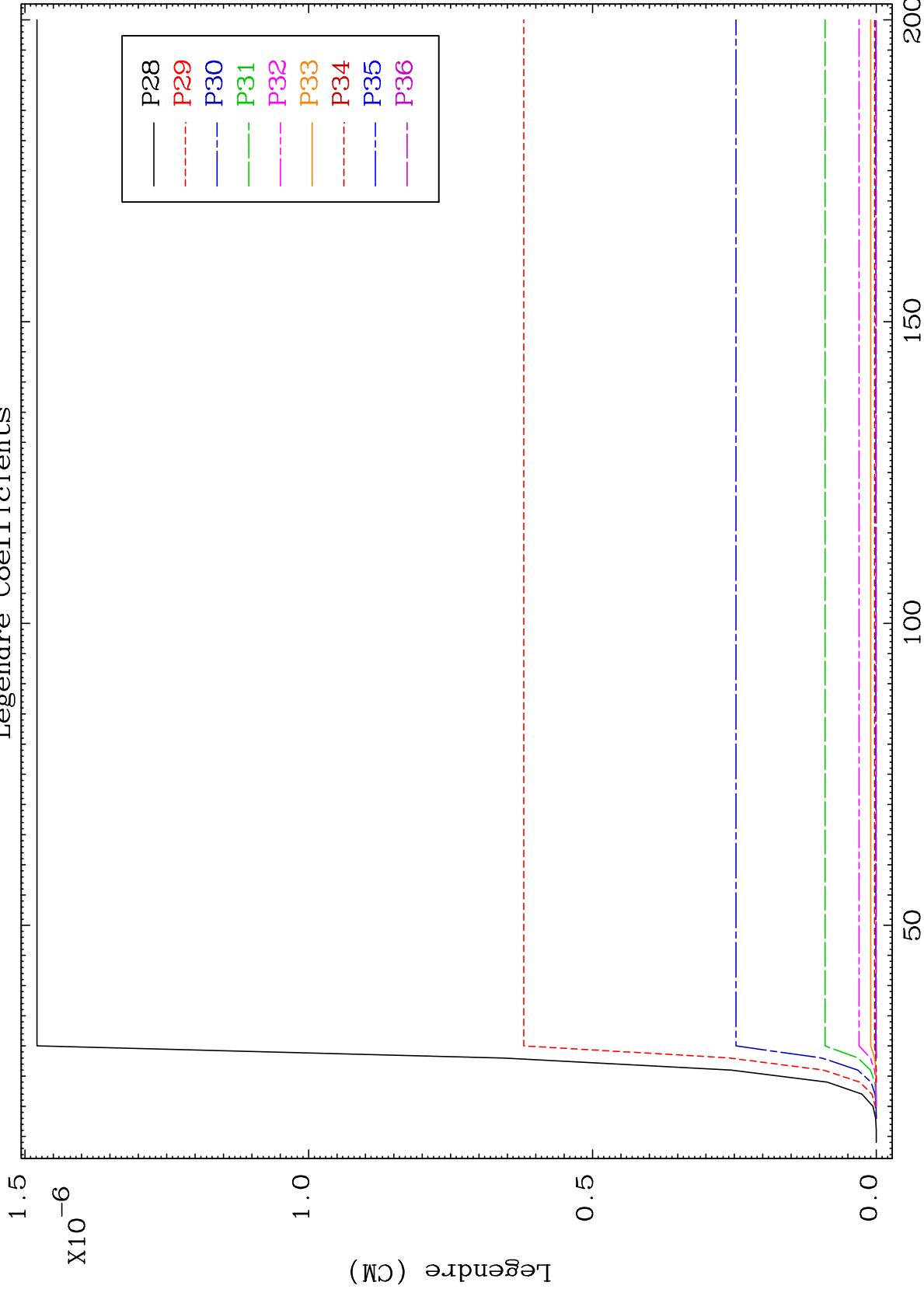
72-Hf-159



30

Incident Energy (MeV)

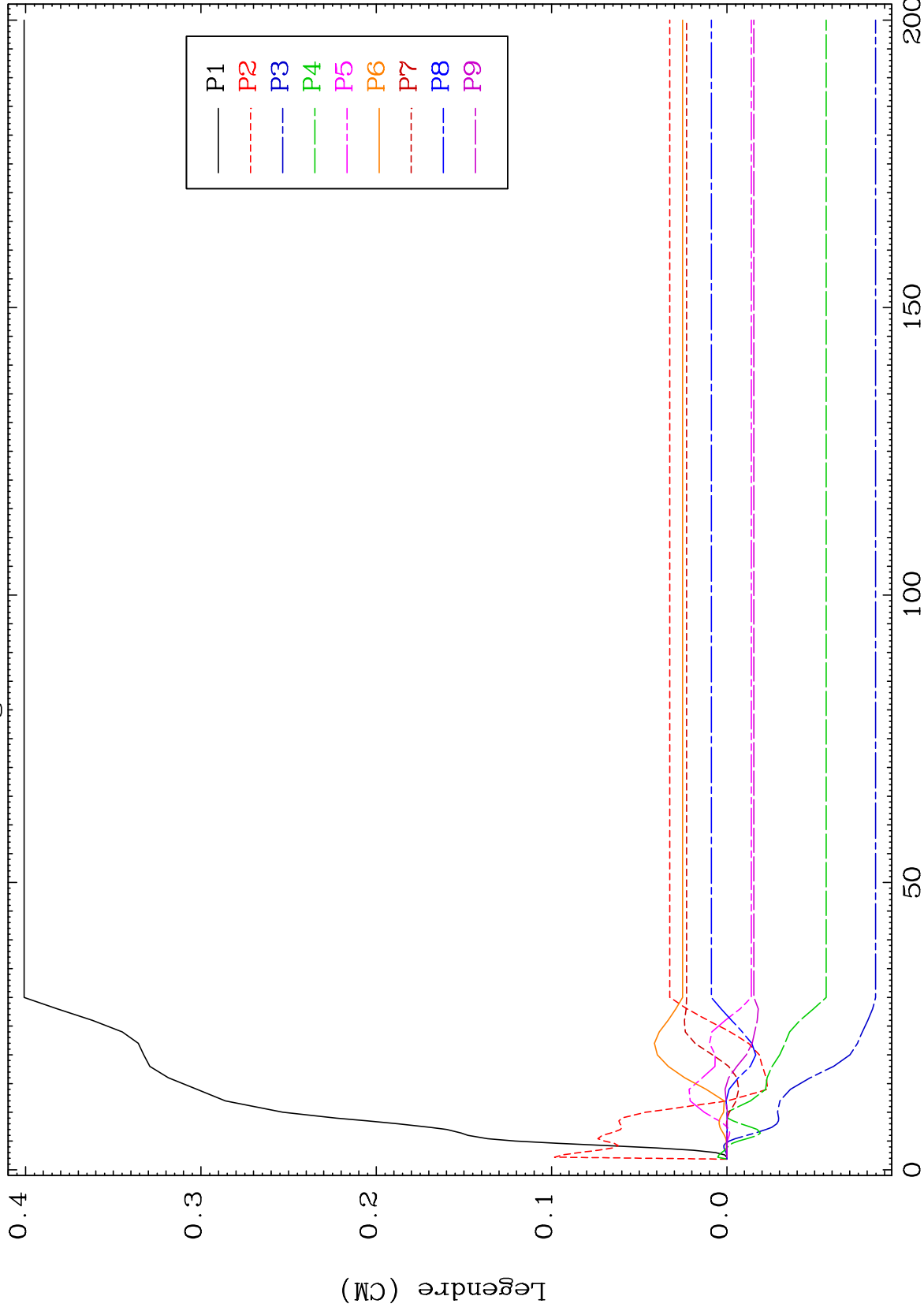
72-Hf-159



MAT 7180

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

72-Hf-159



32

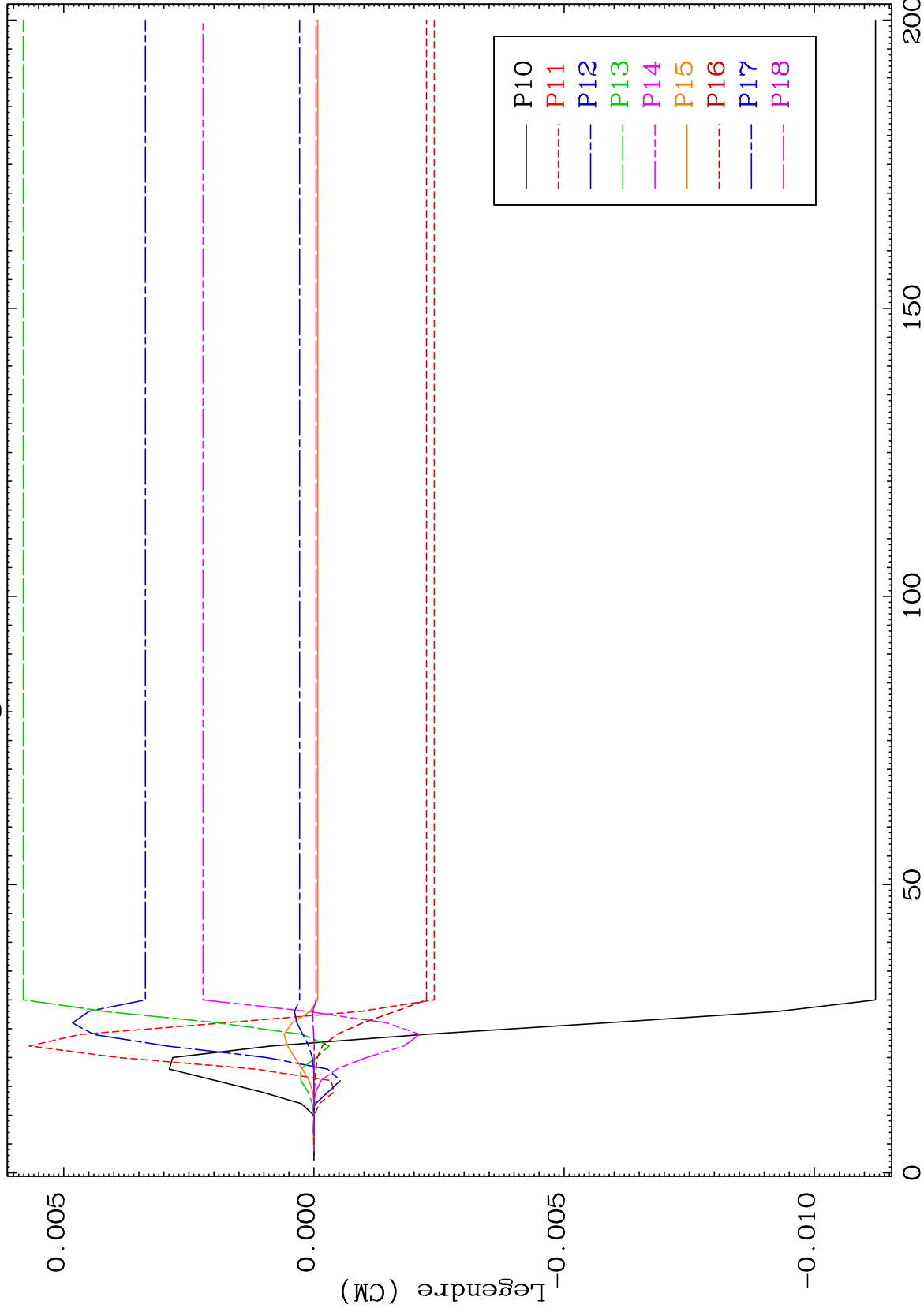
Incident Energy (MeV)

72-Hf-159

MAT 7180

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

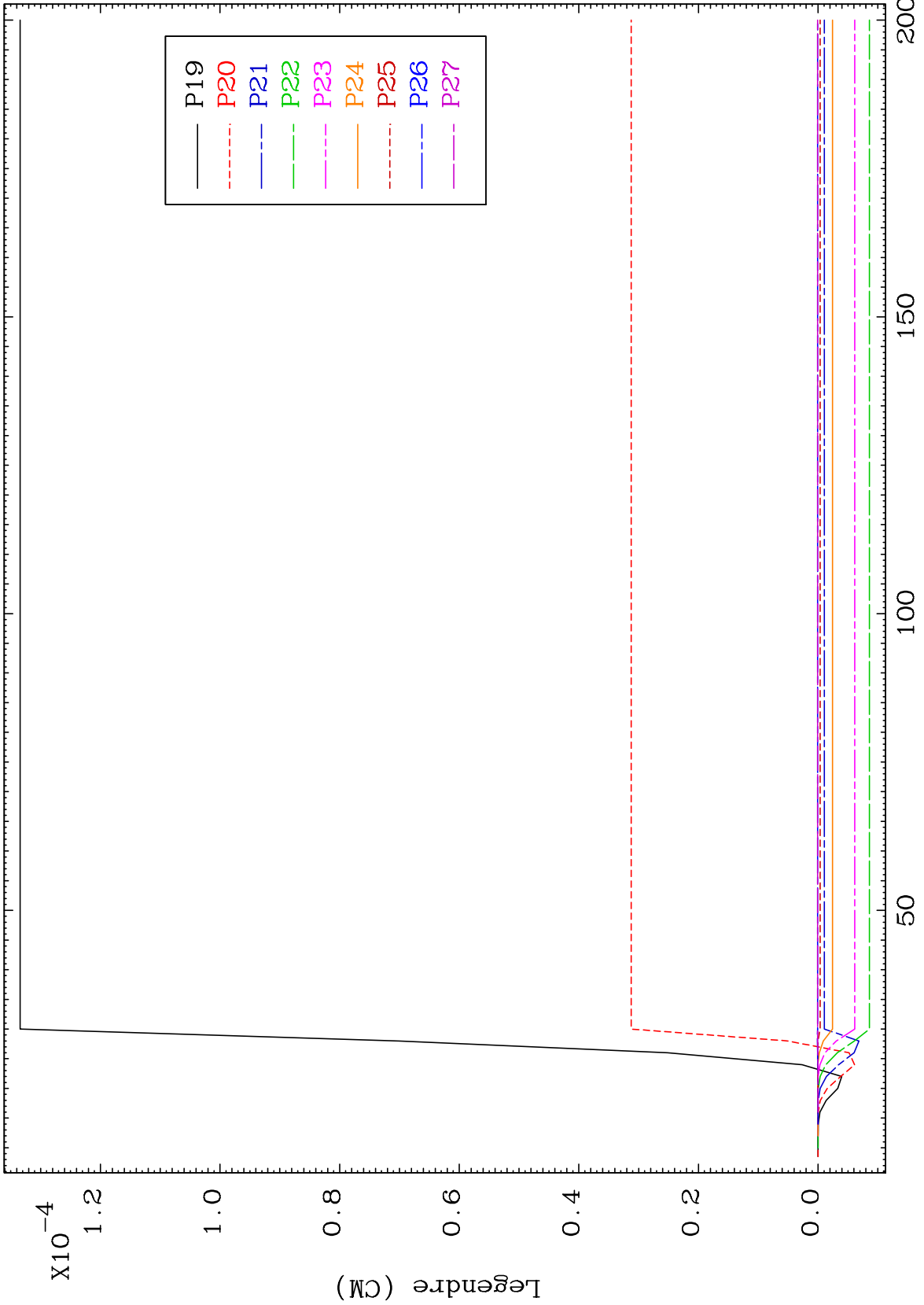
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33

Incident Energy (MeV)

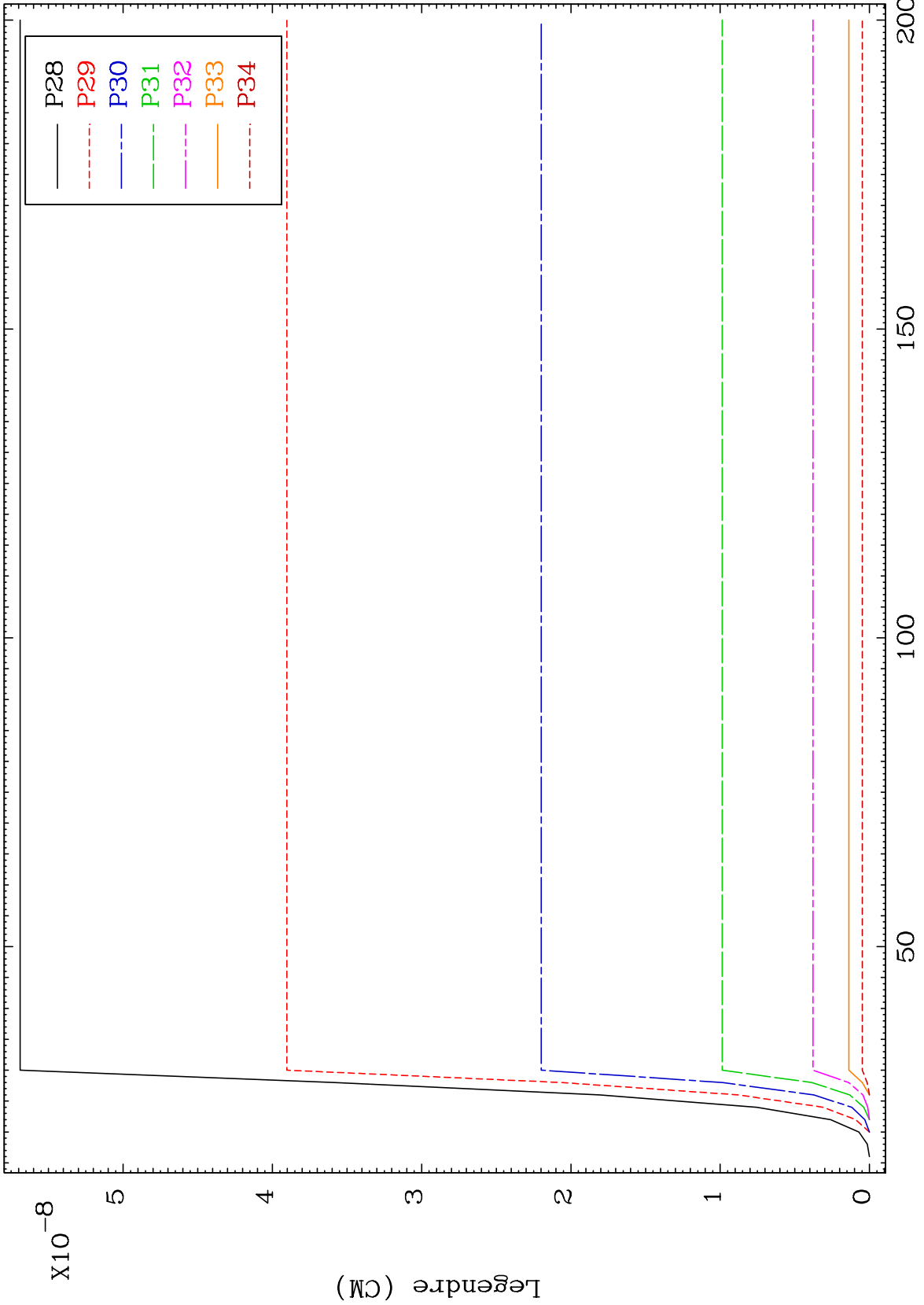
72-Hf-159



MAT 7180

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

72-Hf-159



35

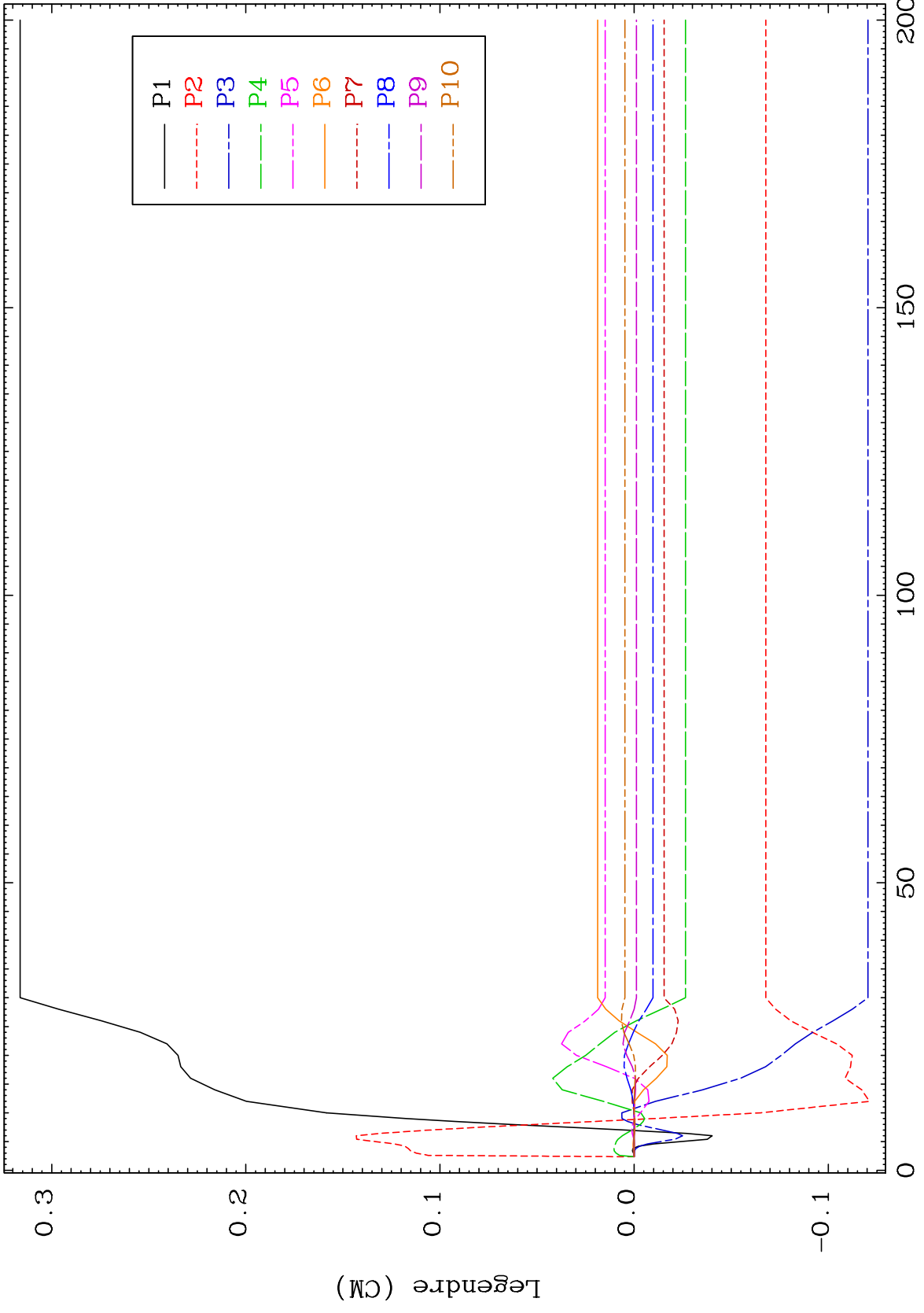
Incident Energy (MeV)

72-Hf-159

MAT 7180

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

72-Hf-159



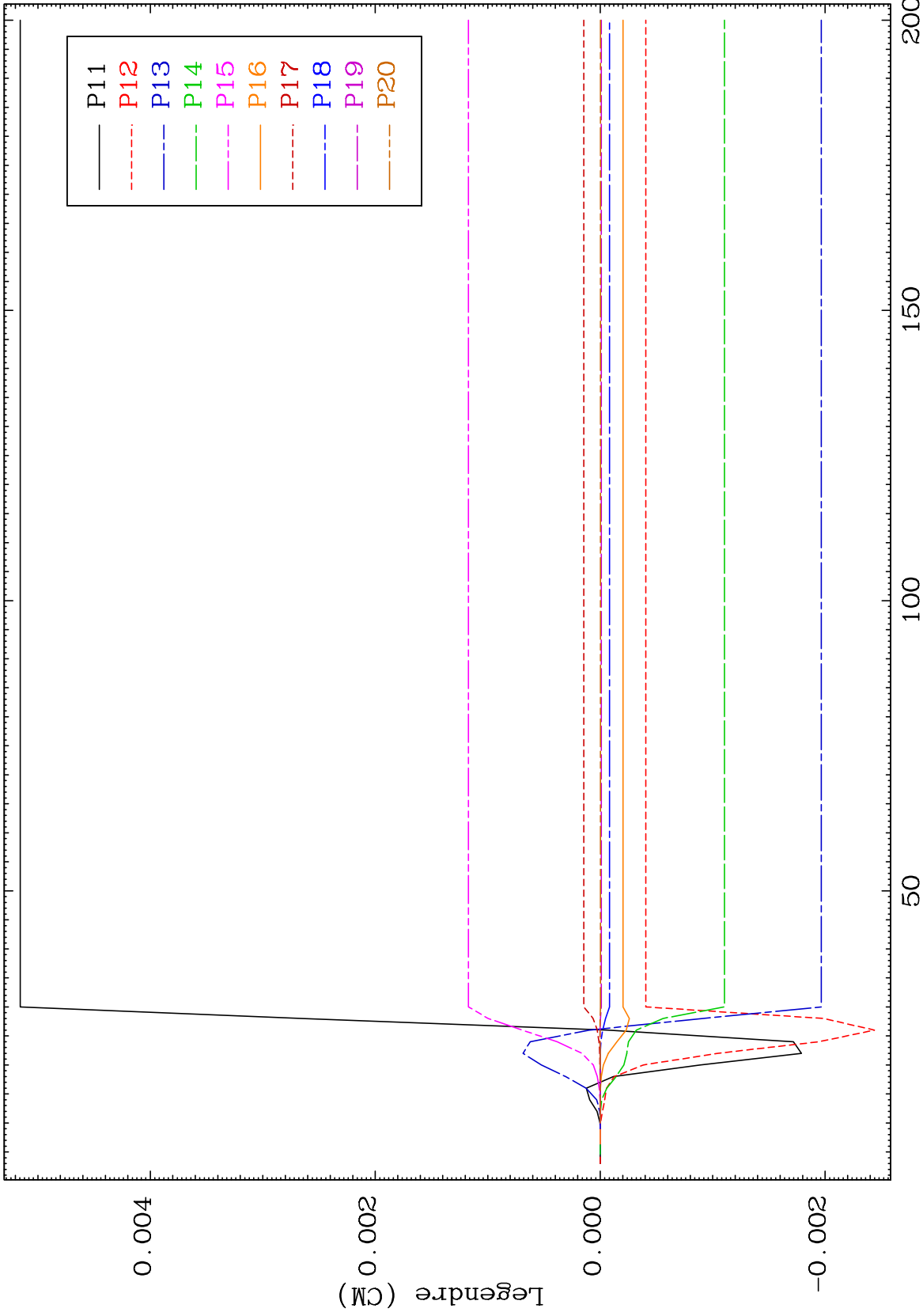
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72-Hf-159

MAT 7180

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

72-Hf-159



37

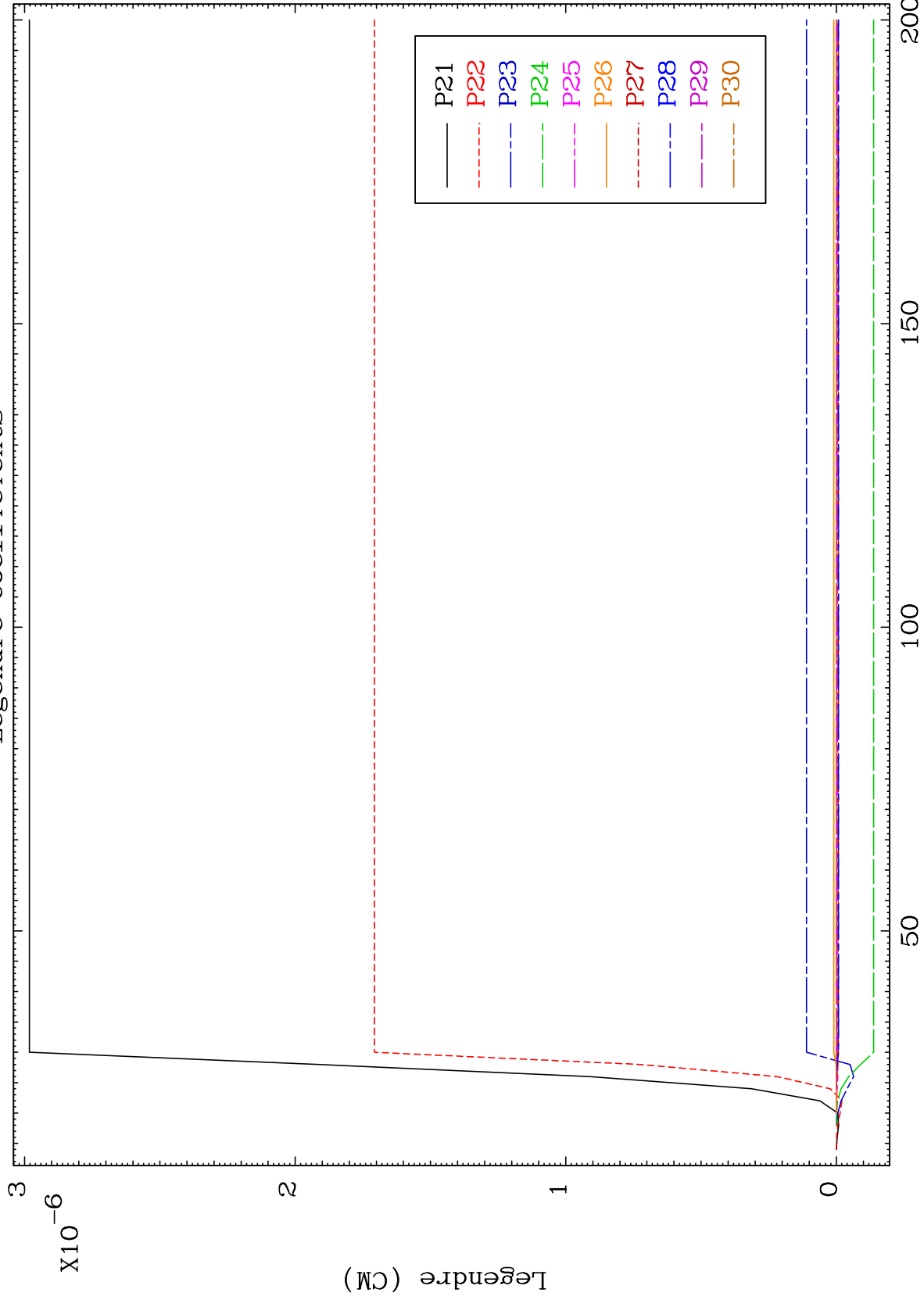
Incident Energy (MeV)

72-Hf-159

MAT 7180

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

72-Hf-159



38

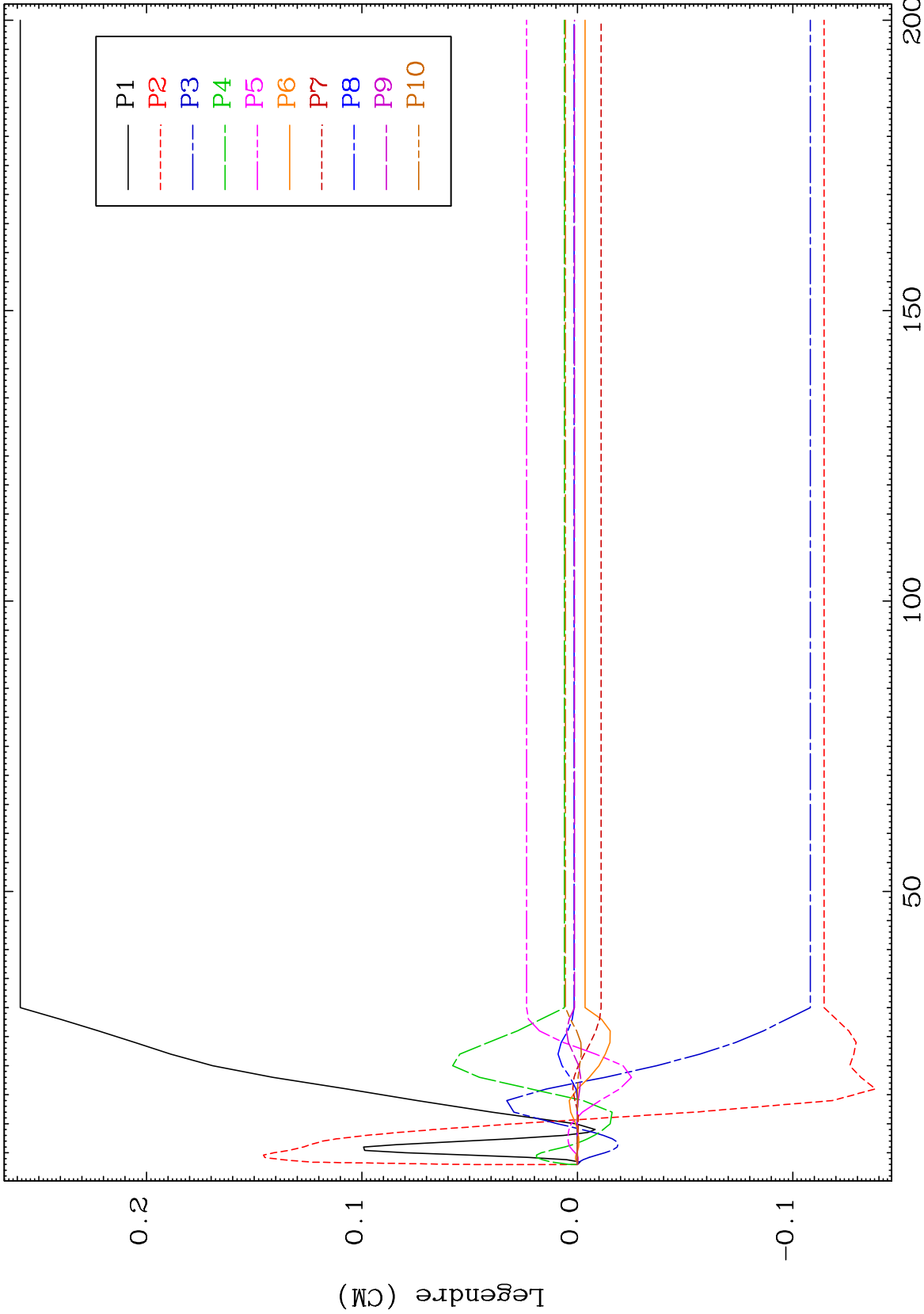
Incident Energy (MeV)

72-Hf-159

MAT 7180

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

72-Hf-159



39

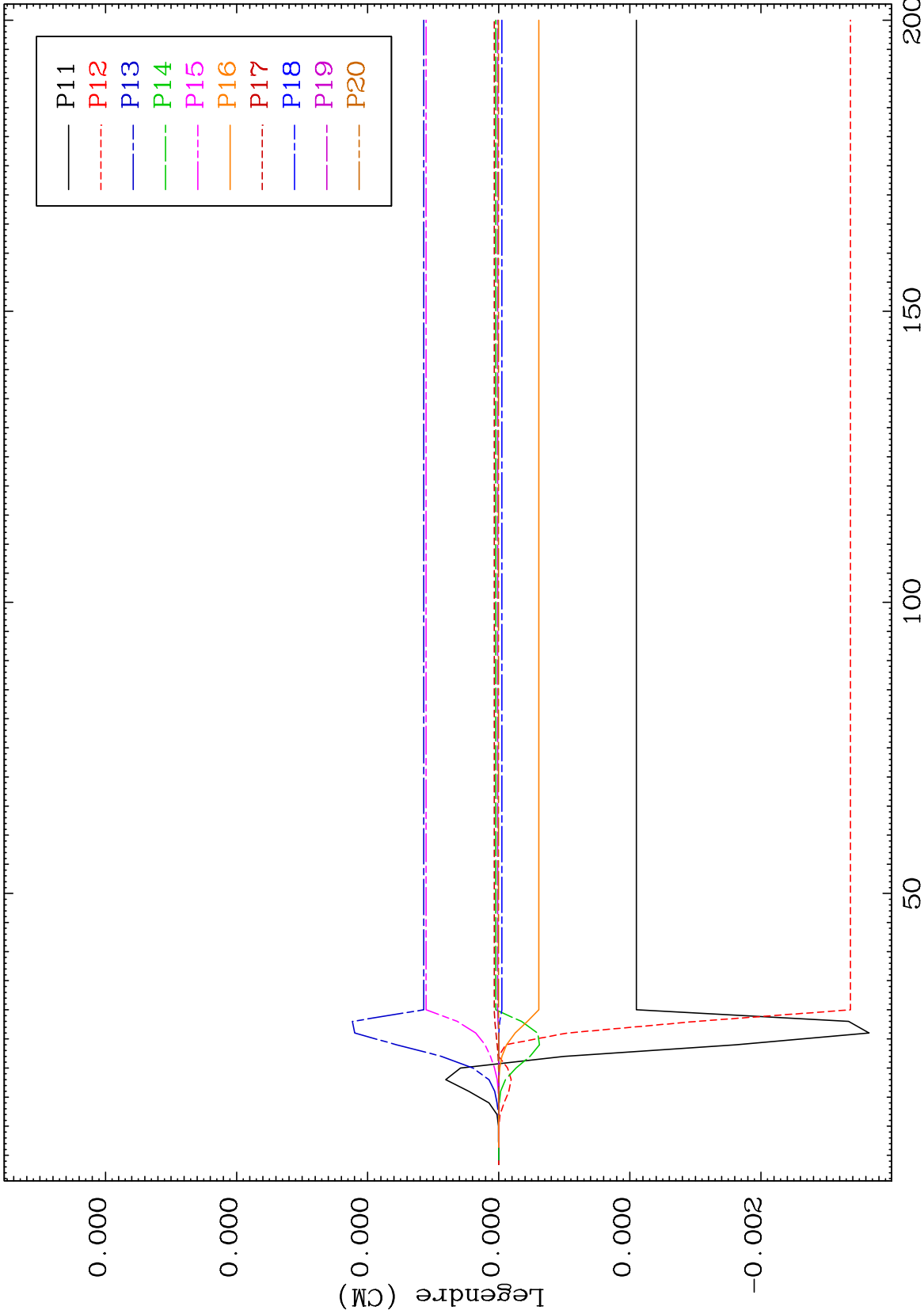
Incident Energy (MeV)

72-Hf-159

MAT 7180

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

72-Hf-159



40

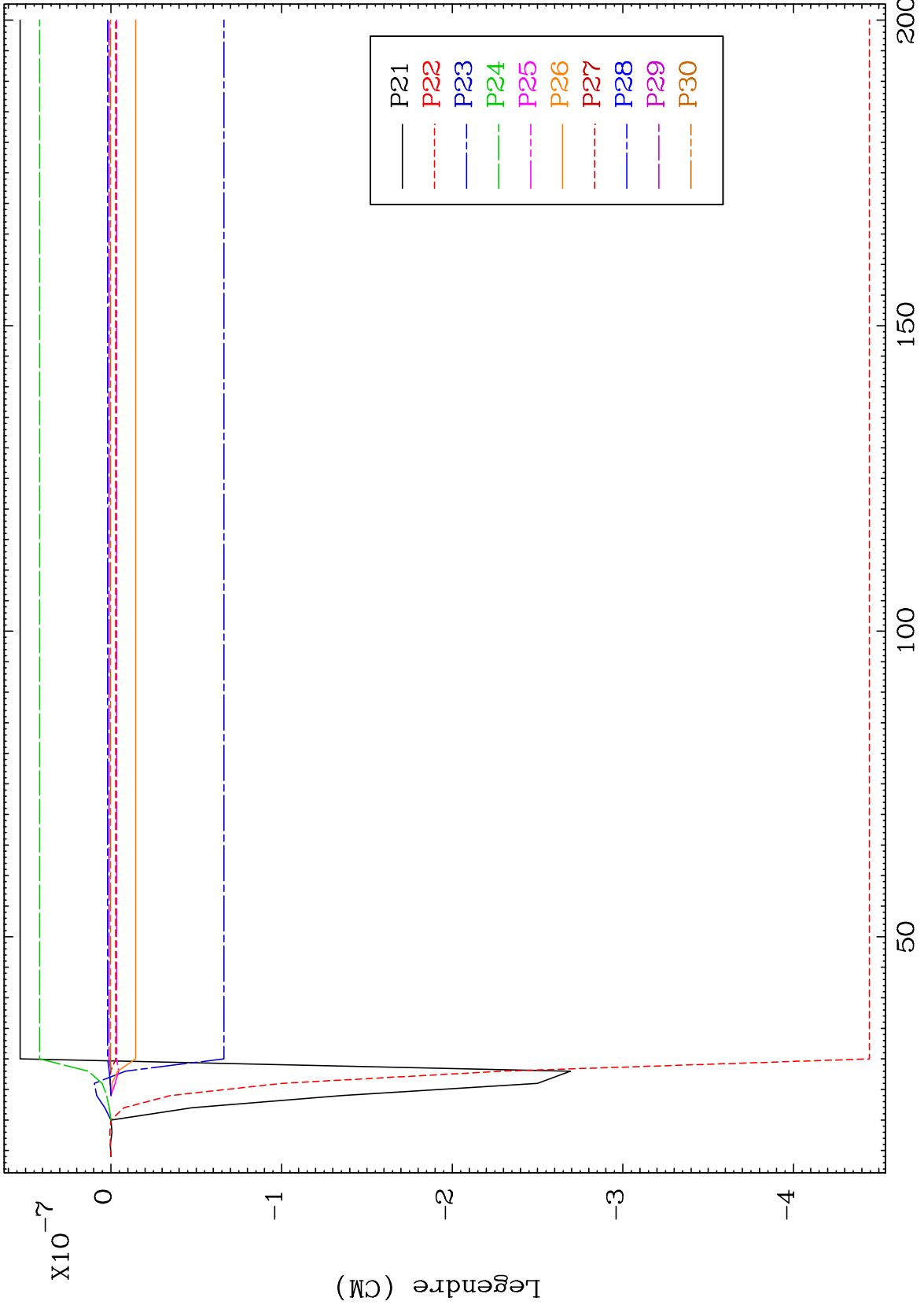
Incident Energy (MeV)

72-Hf-159

MAT 7180

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

72-Hf-159



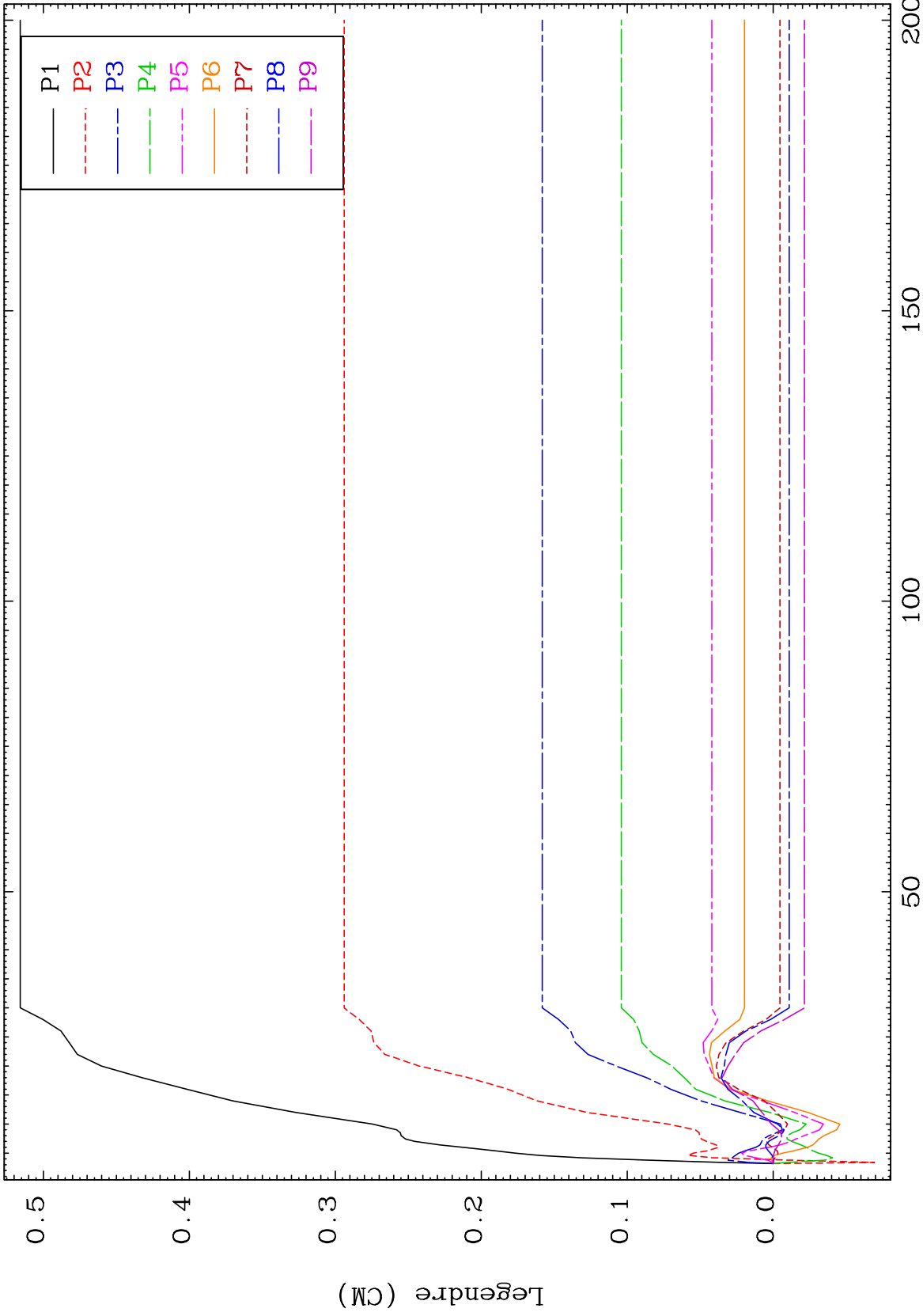
41

72-Hf-159

MAT 7180

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

72-Hf-159



42

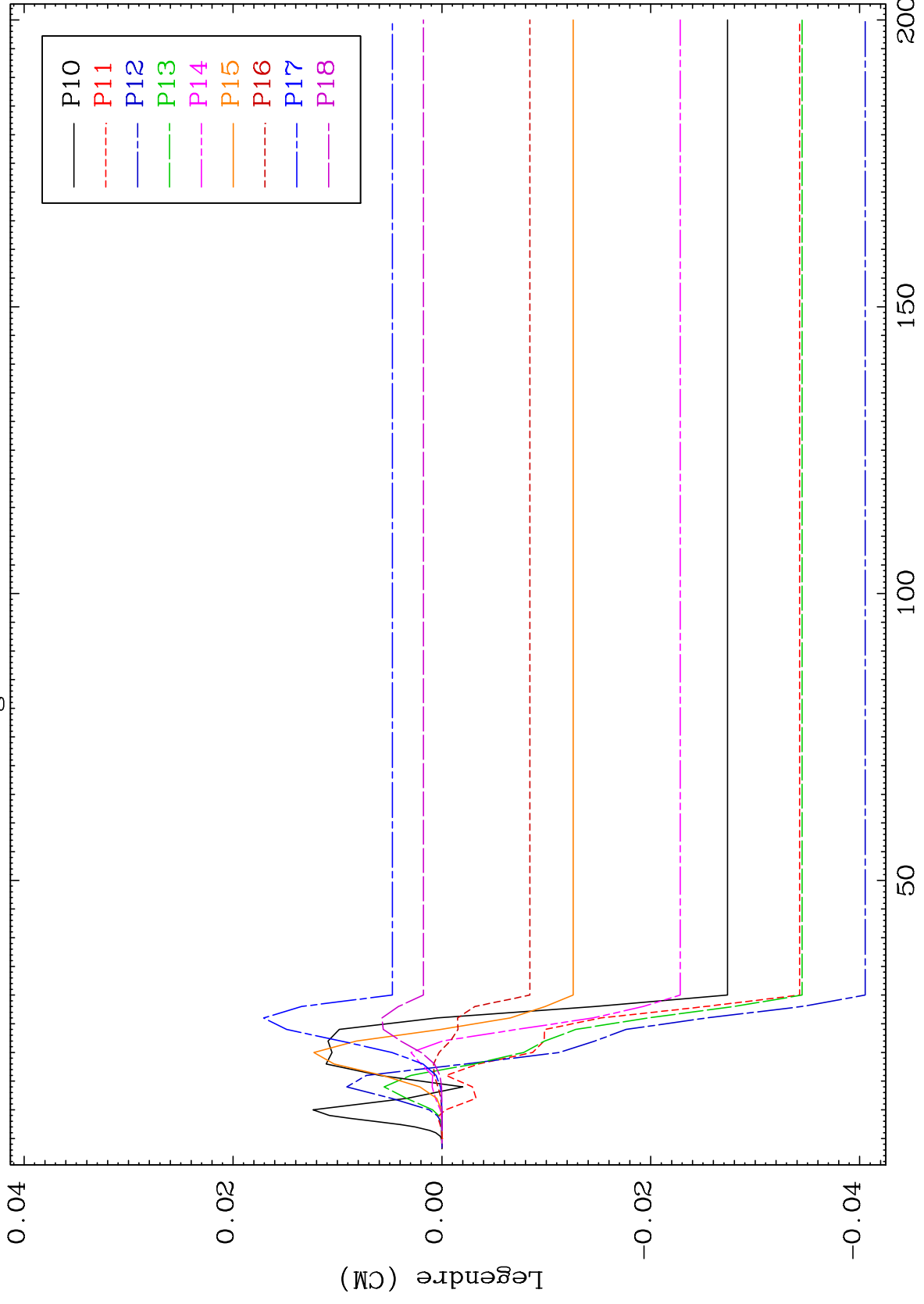
Incident Energy (MeV)

72-Hf-159

MAT 7180

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

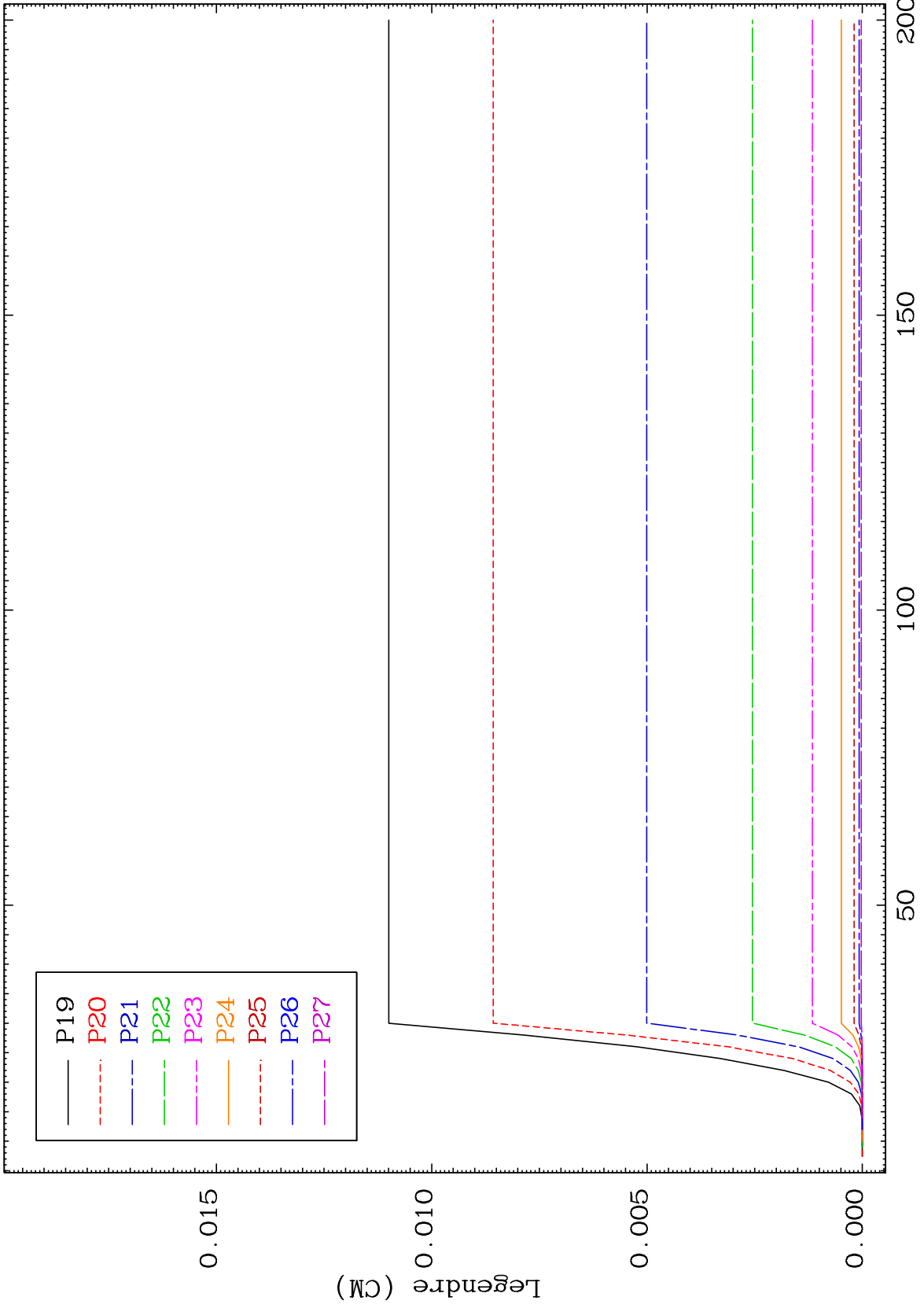
72-Hf-159



43

Incident Energy (MeV)

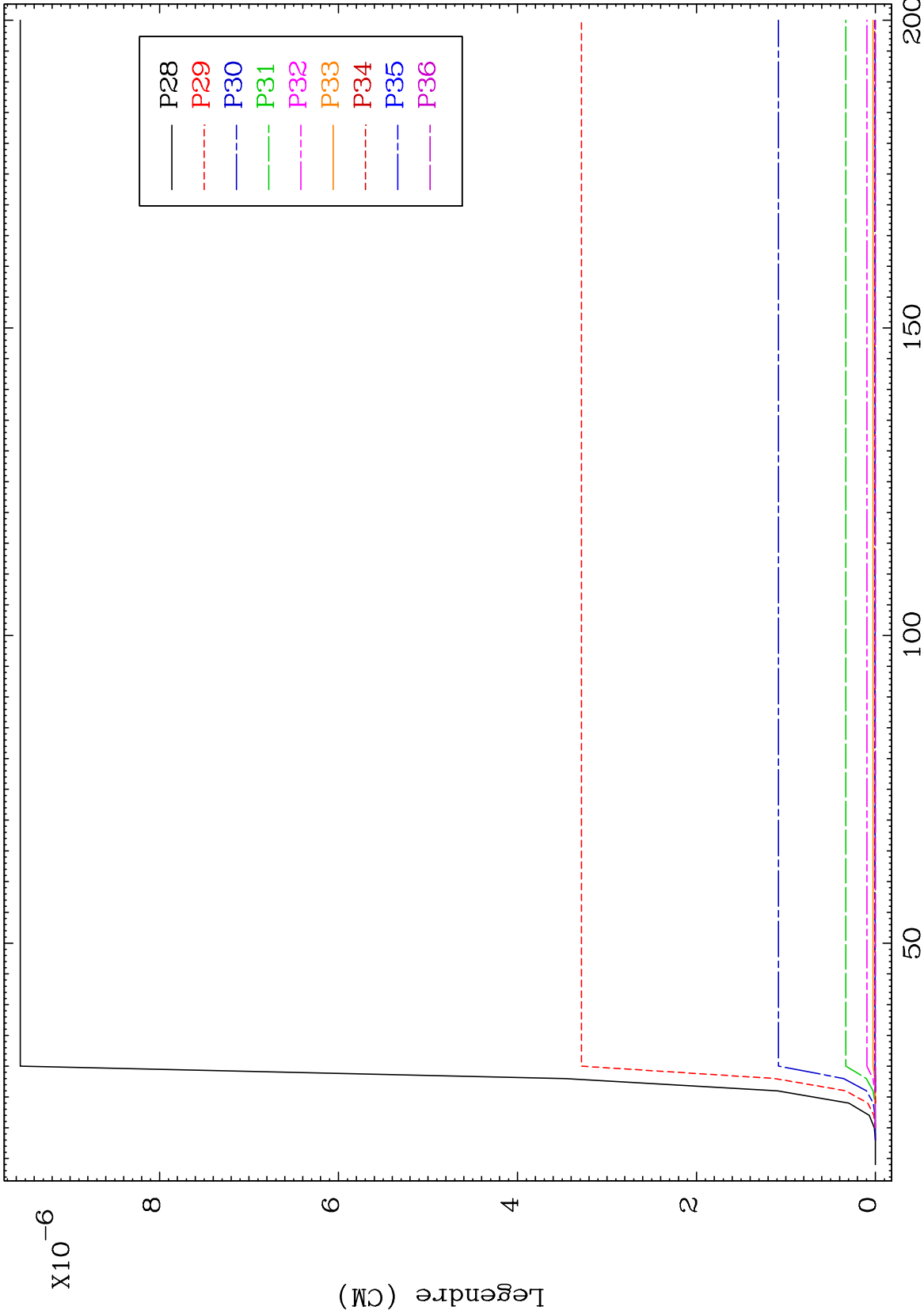
72-Hf-159



MAT 7180

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

72-Hf-159



45

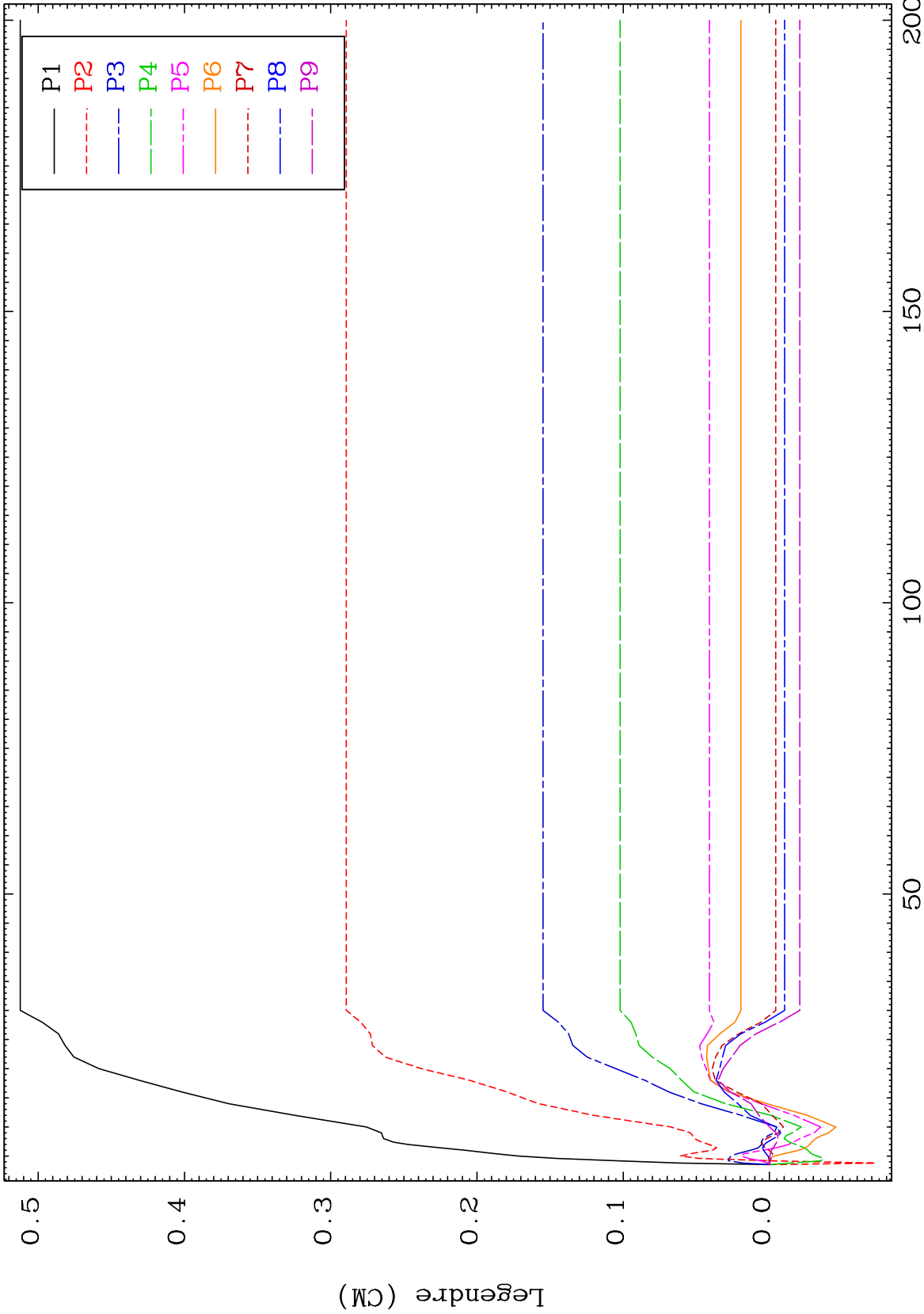
Incident Energy (MeV)

72-Hf-159

MAT 7180

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

72-Hf-159



46

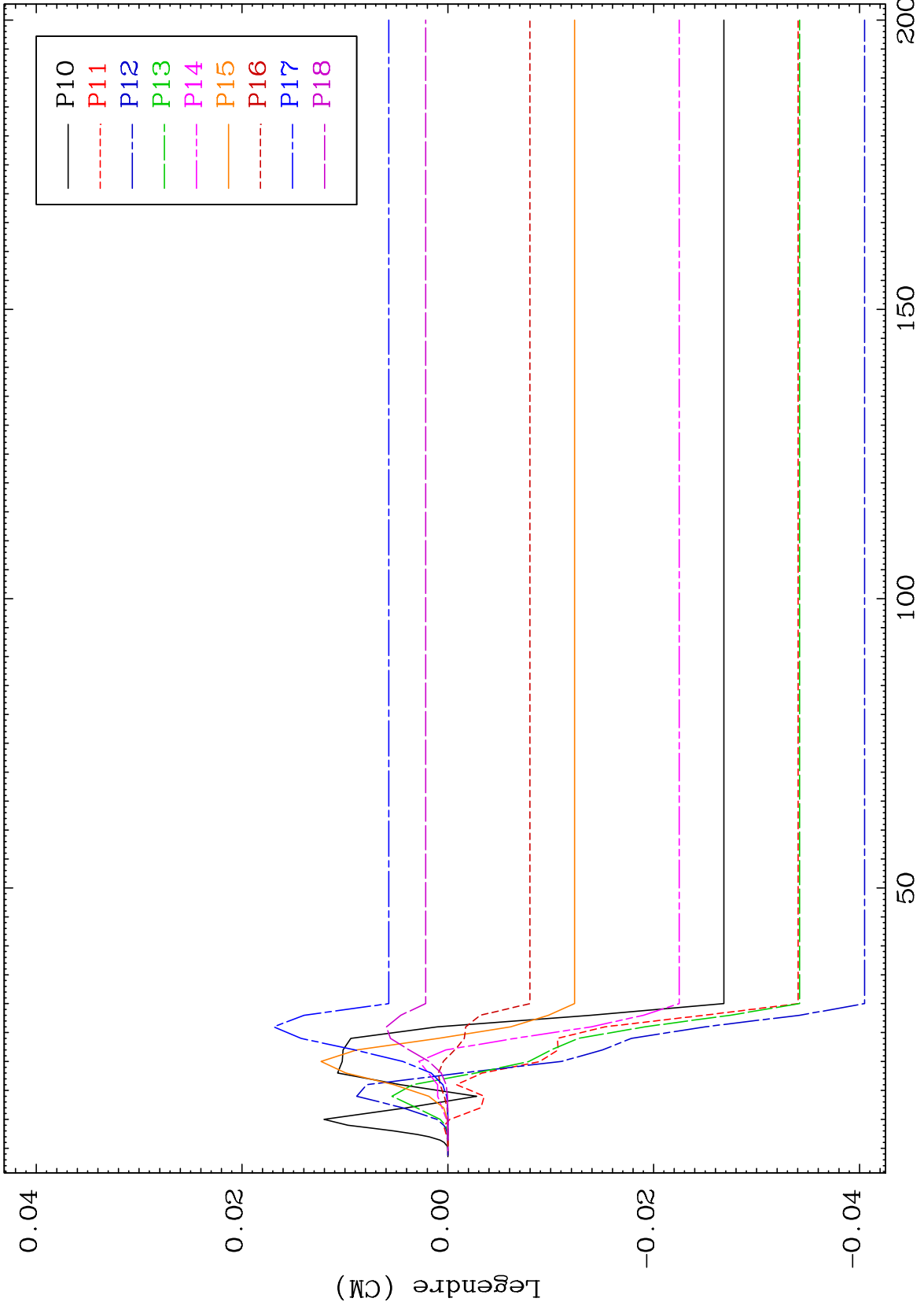
Incident Energy (MeV)

72-Hf-159

MAT 7180

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

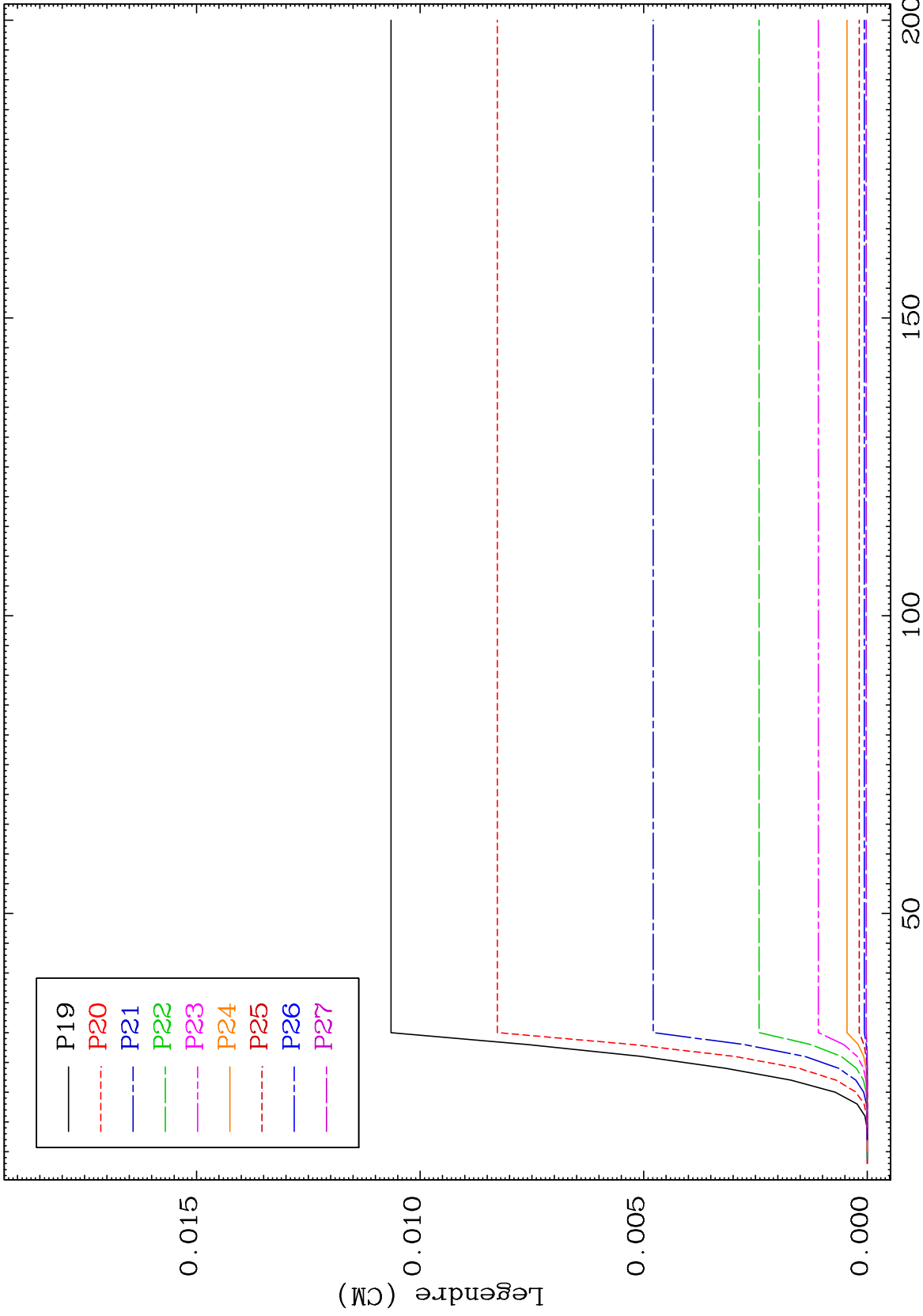
72-Hf-159



47

Incident Energy (MeV)

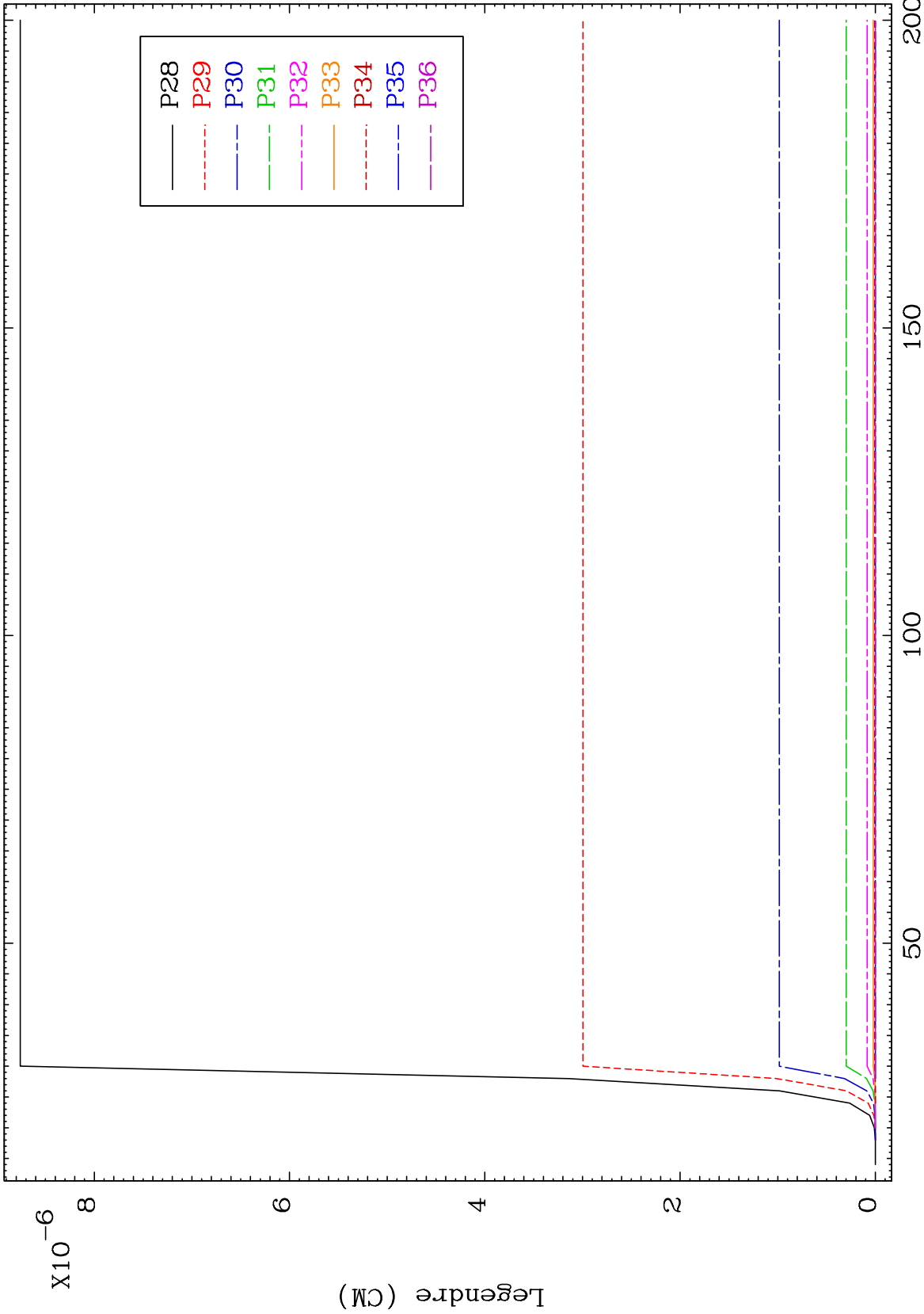
72-Hf-159



MAT 7180

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

72-Hf-159



49

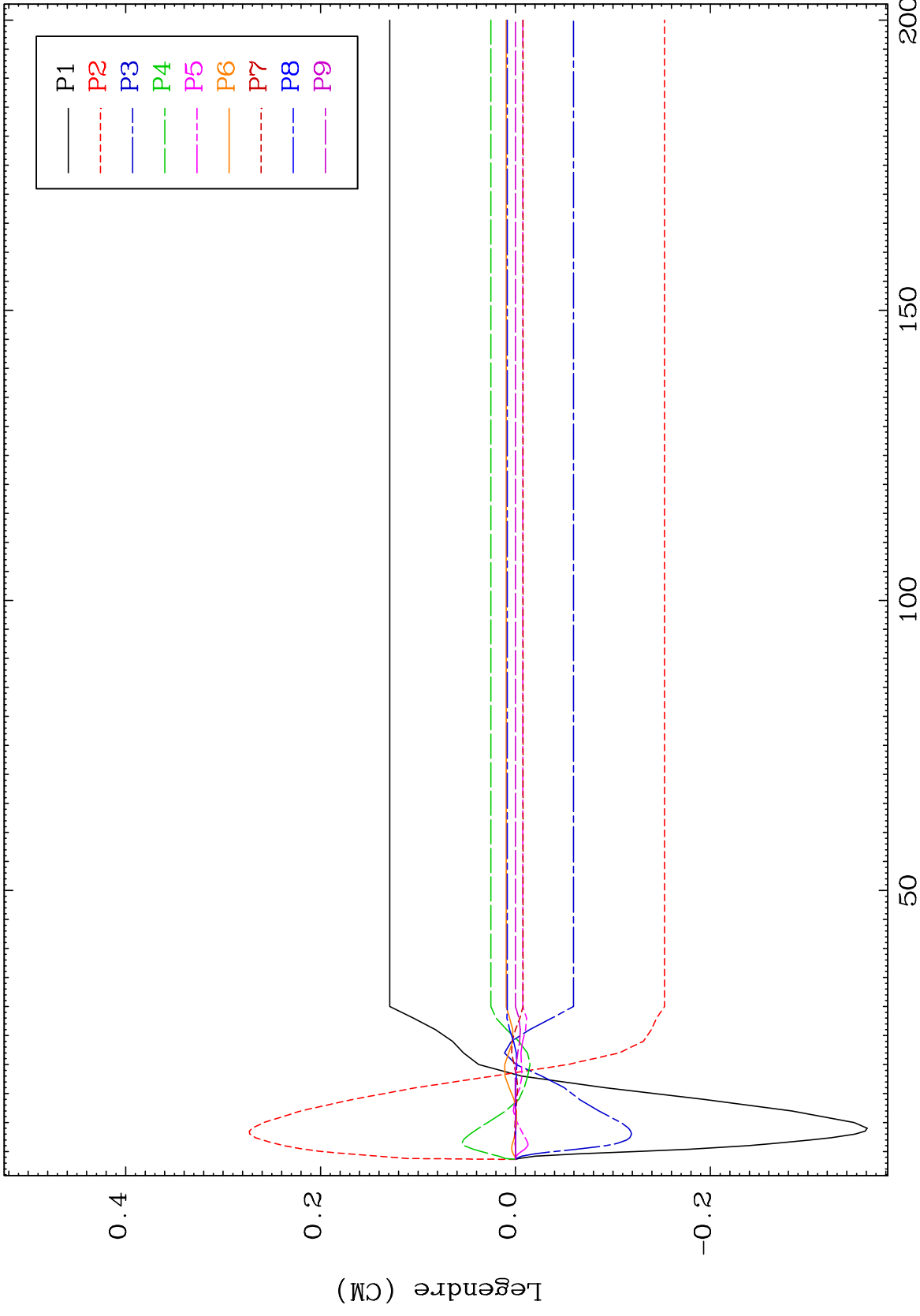
Incident Energy (MeV)

72-Hf-159

MAT 7180

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

72-Hf-159



72-Hf-159

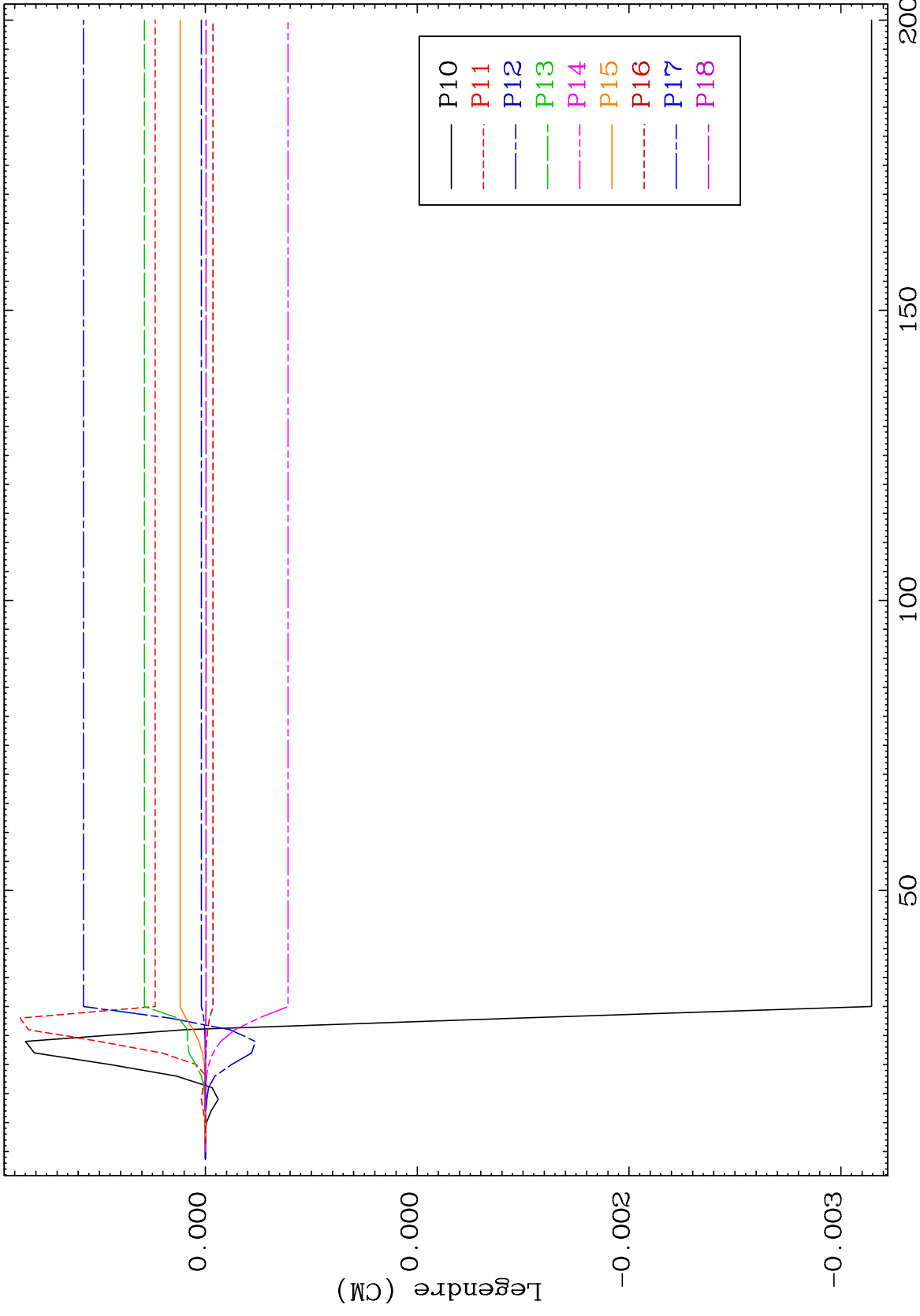
Incident Energy (MeV)

50

MAT 7180

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

72-Hf-159



51

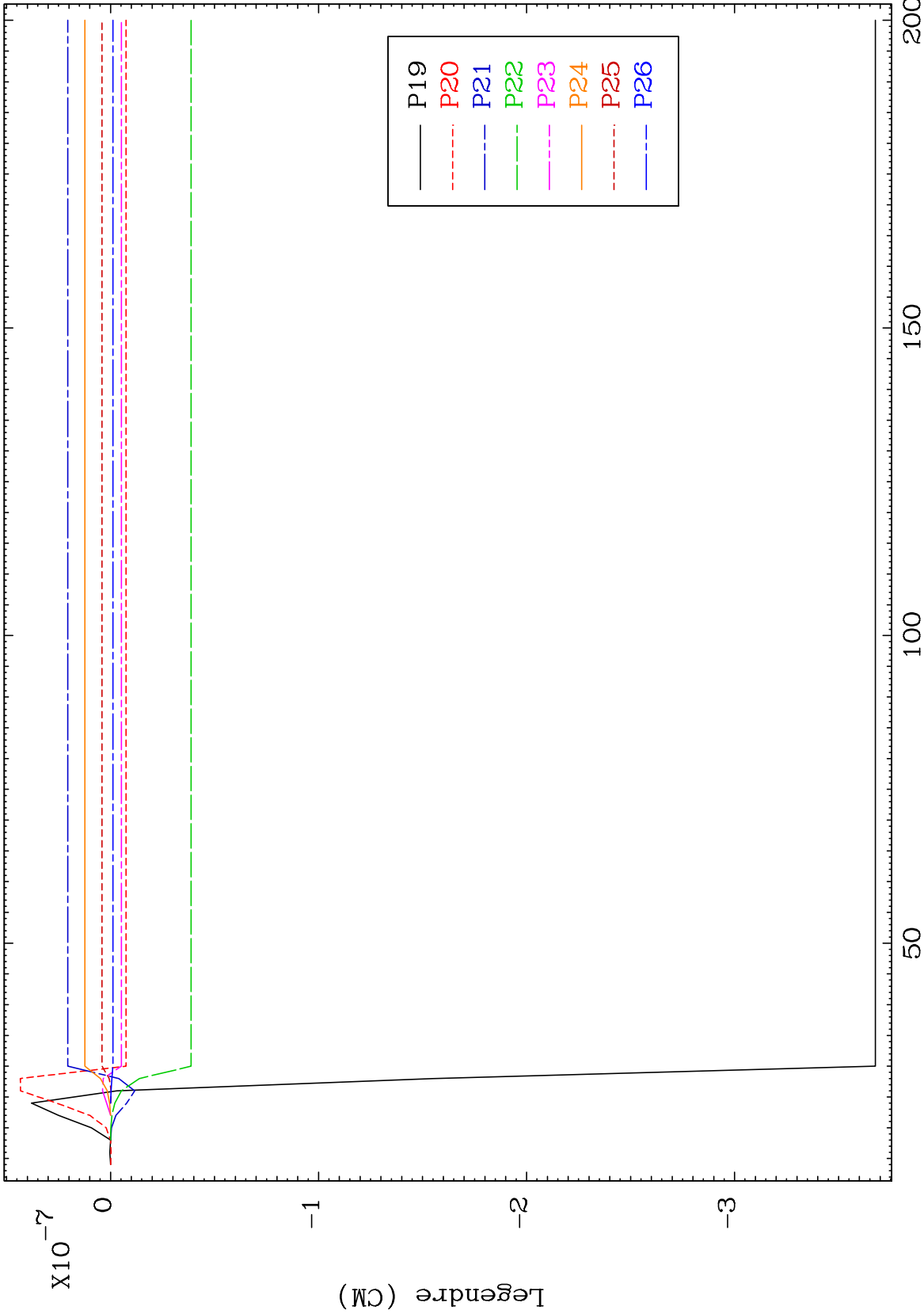
Incident Energy (MeV)

72-Hf-159

MAT 7180

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

72-Hf-159



52

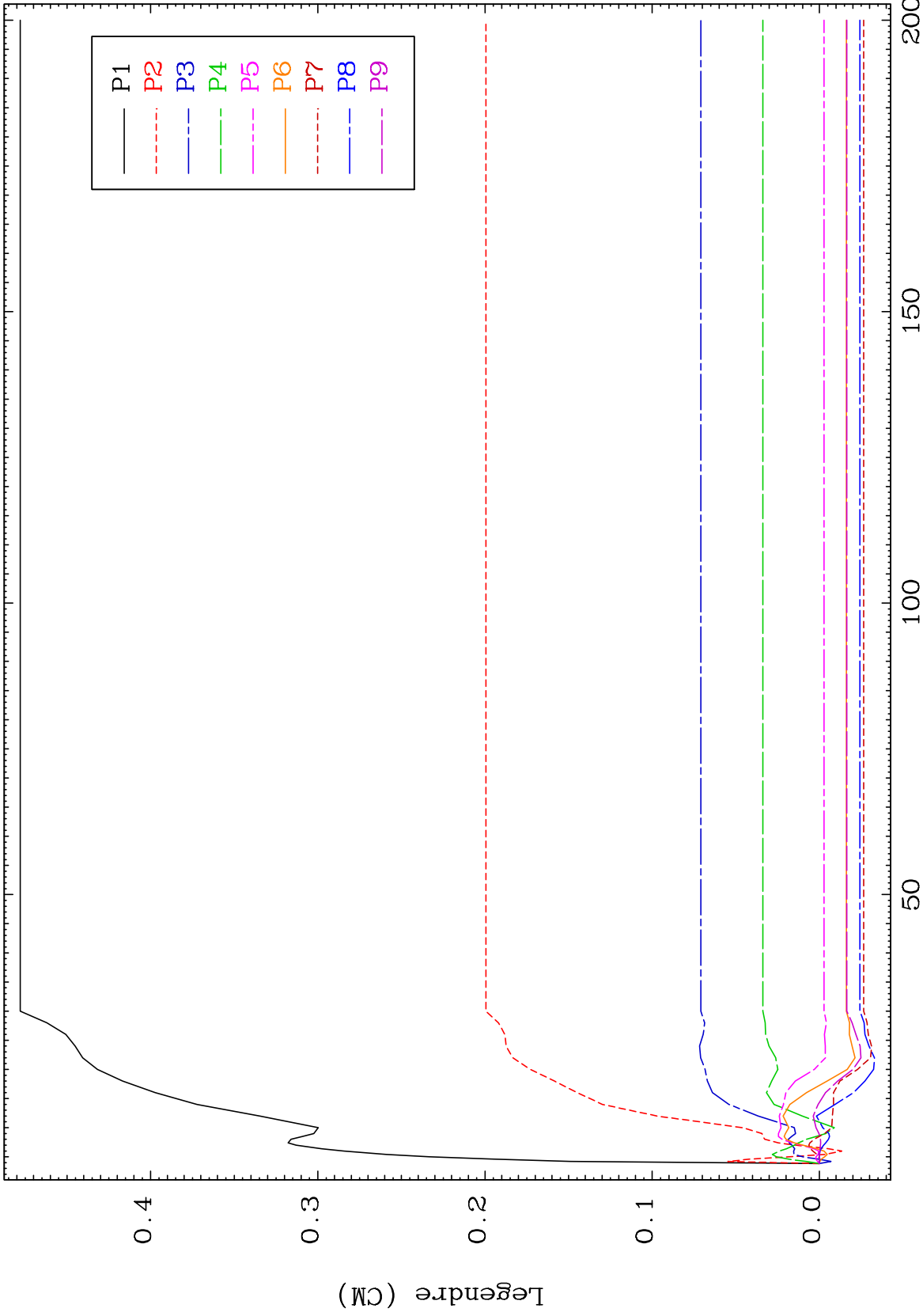
Incident Energy (MeV)

72-Hf-159

MAT 7180

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

72-Hf-159



53

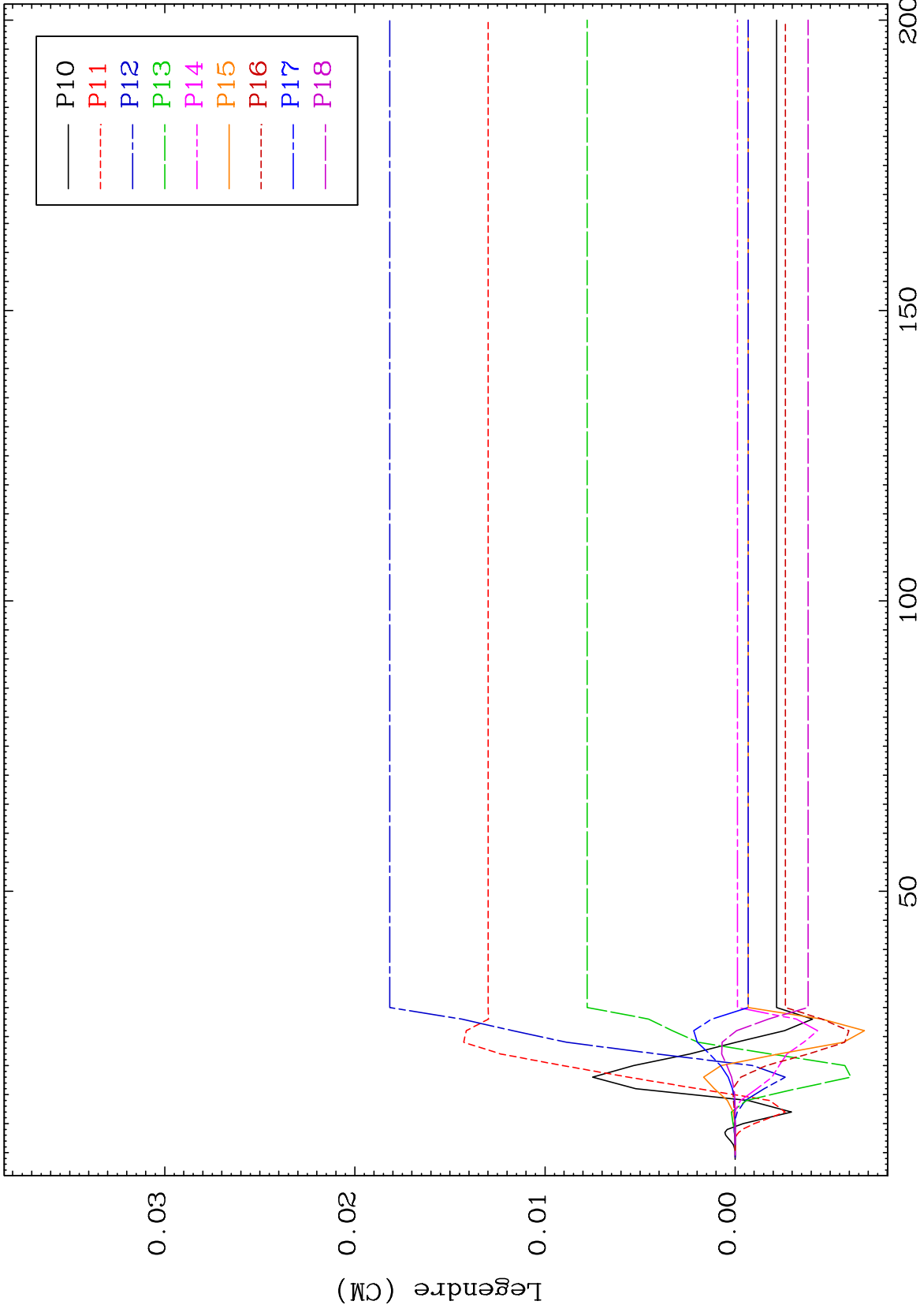
Incident Energy (MeV)

72-Hf-159

MAT 7180

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

72-Hf-159



54

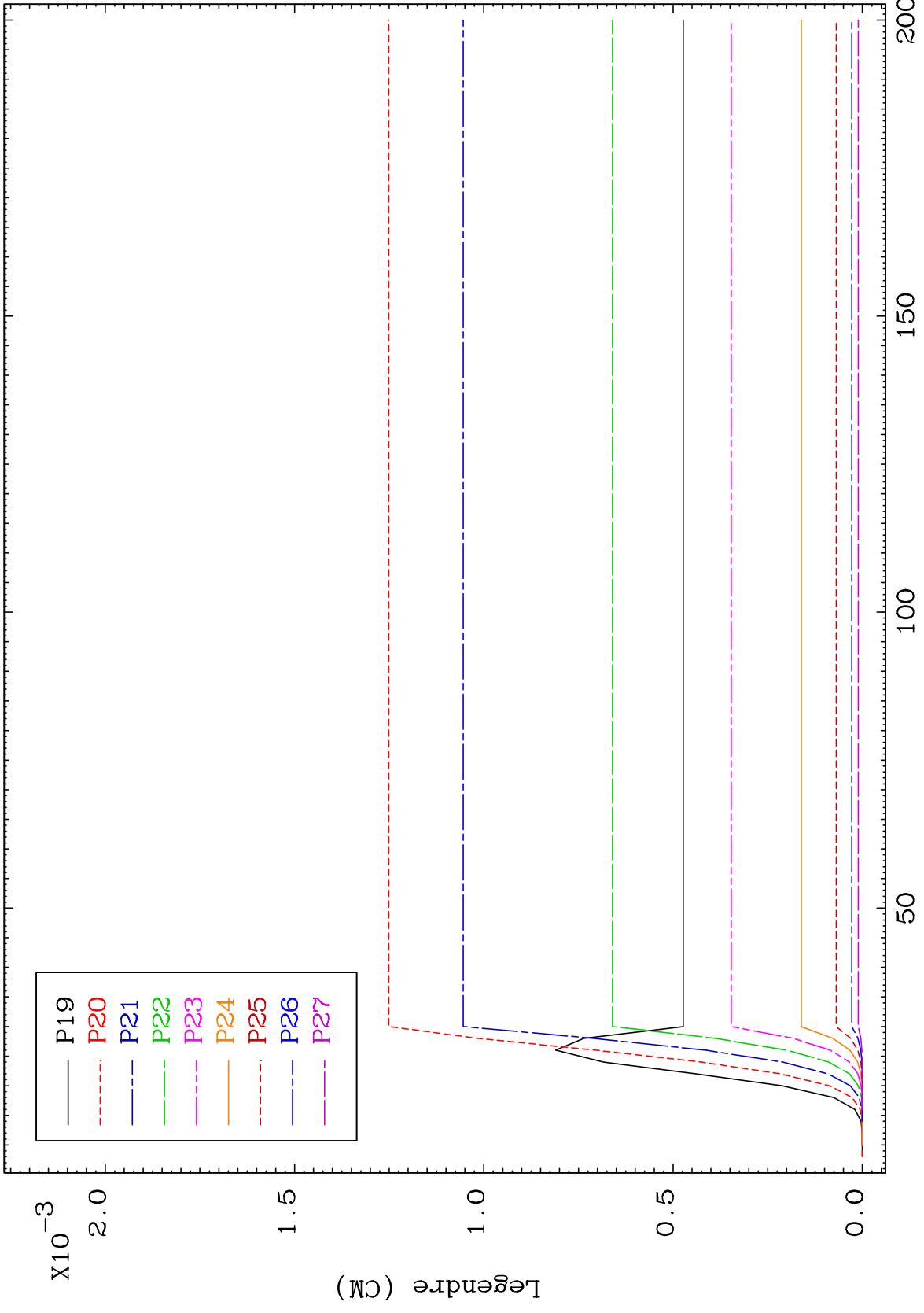
Incident Energy (MeV)

72-Hf-159

MAT 7180

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

72-Hf-159



55

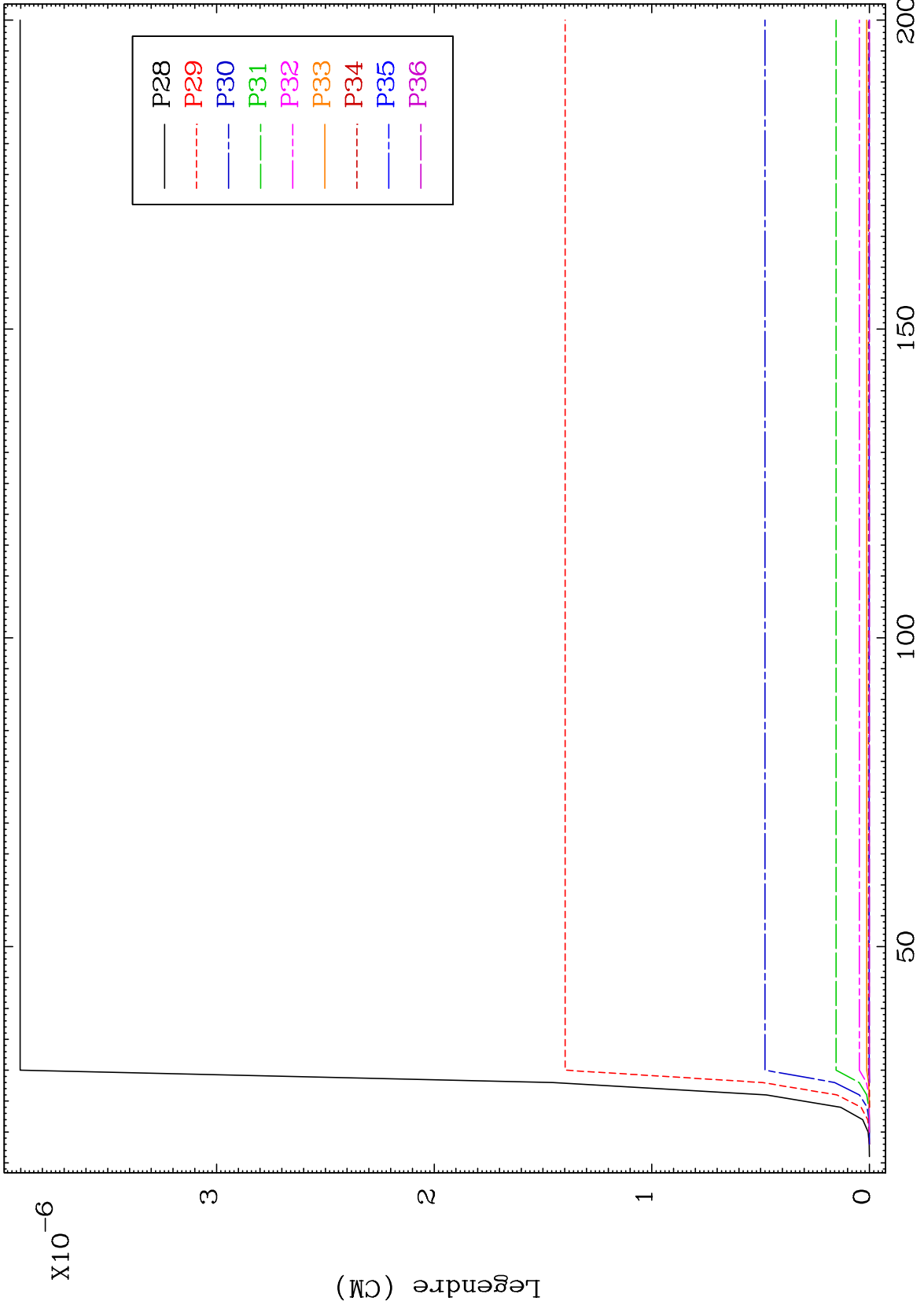
Incident Energy (MeV)

72-Hf-159

MAT 7180

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

72-Hf-159



56

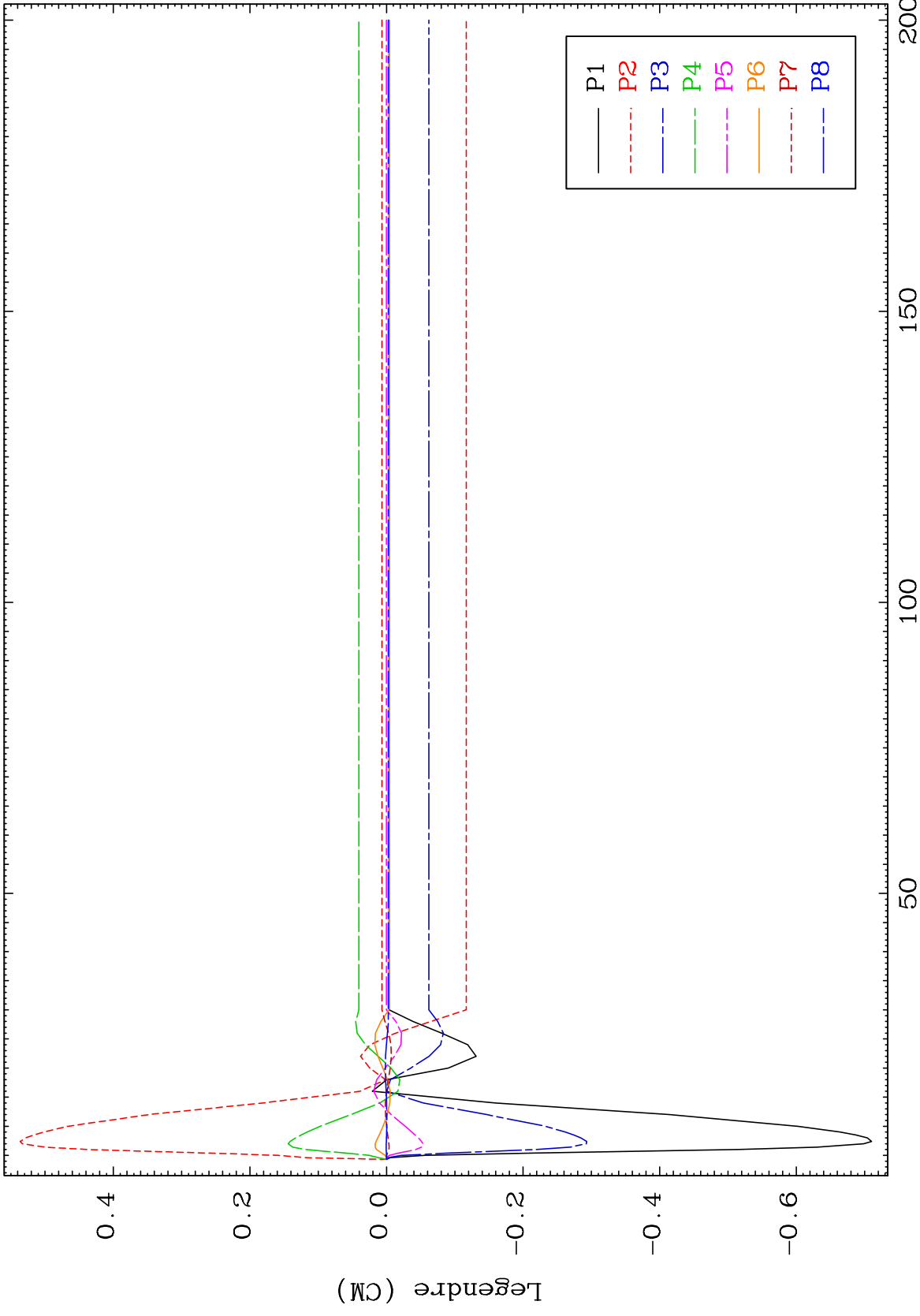
Incident Energy (MeV)

72-Hf-159

MAT 7180

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

72-Hf-159



57

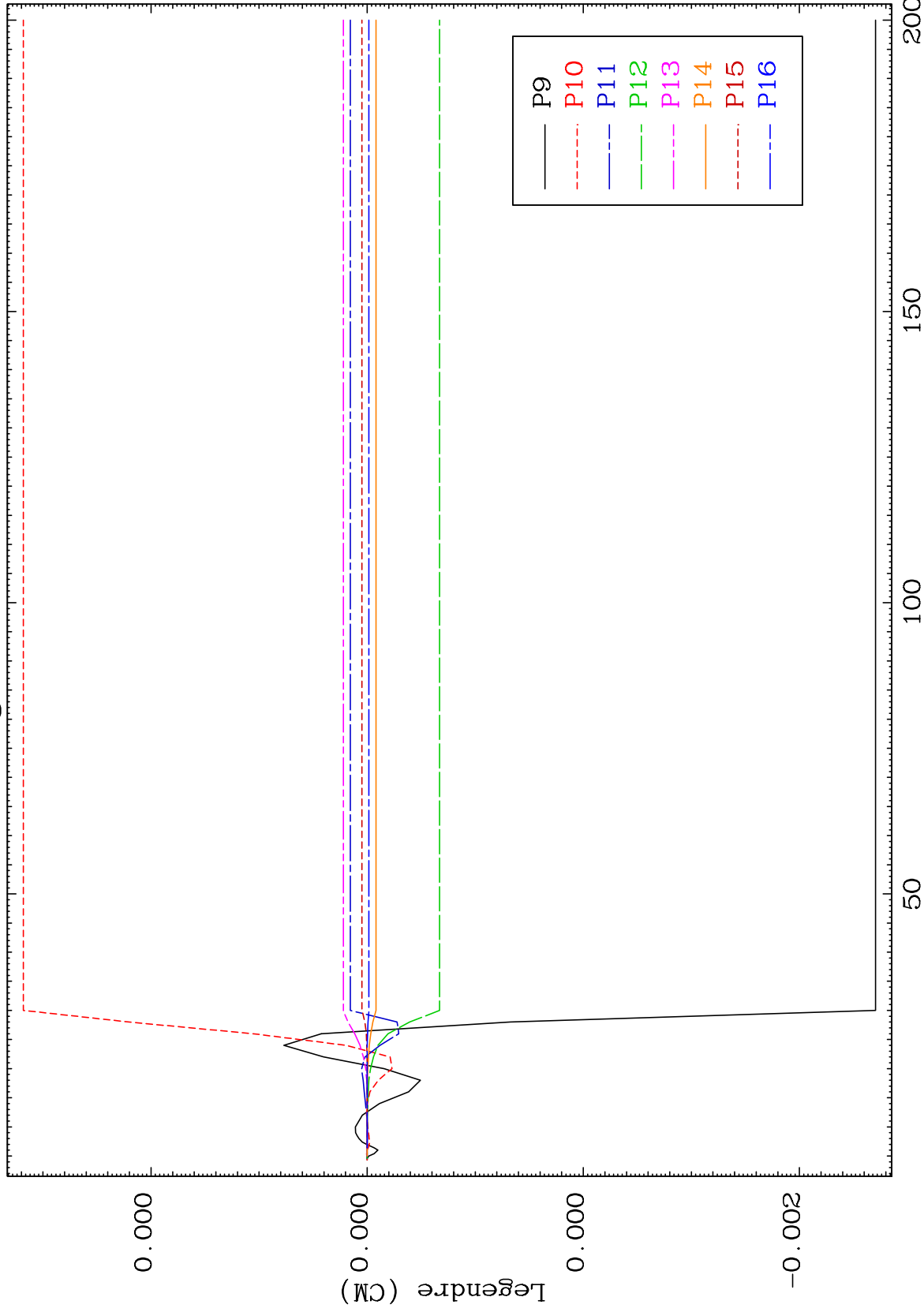
Incident Energy (MeV)

72-Hf-159

MAT 7180

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

72-Hf-159



58

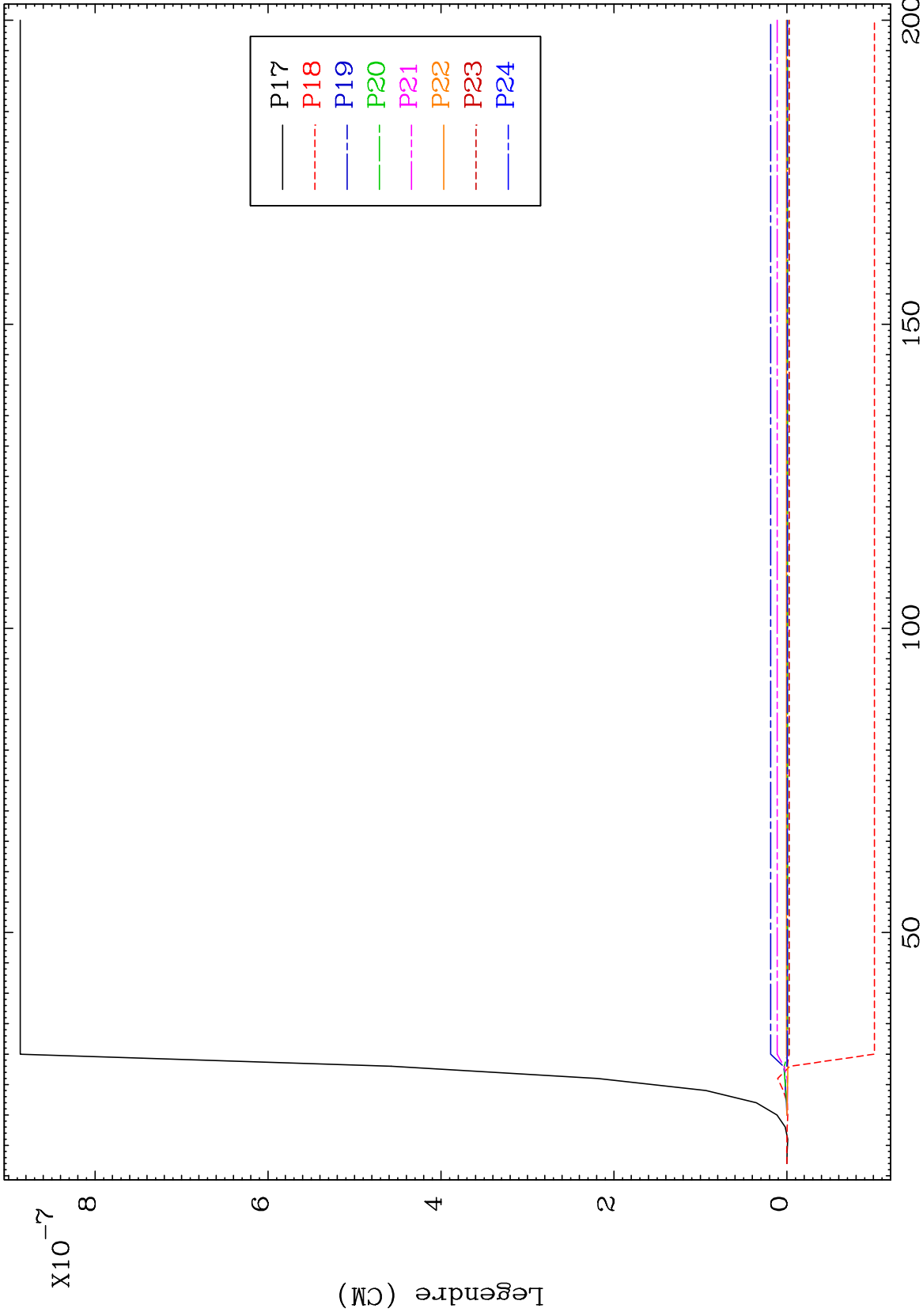
Incident Energy (MeV)

72-Hf-159

MAT 7180

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

72-Hf-159



59

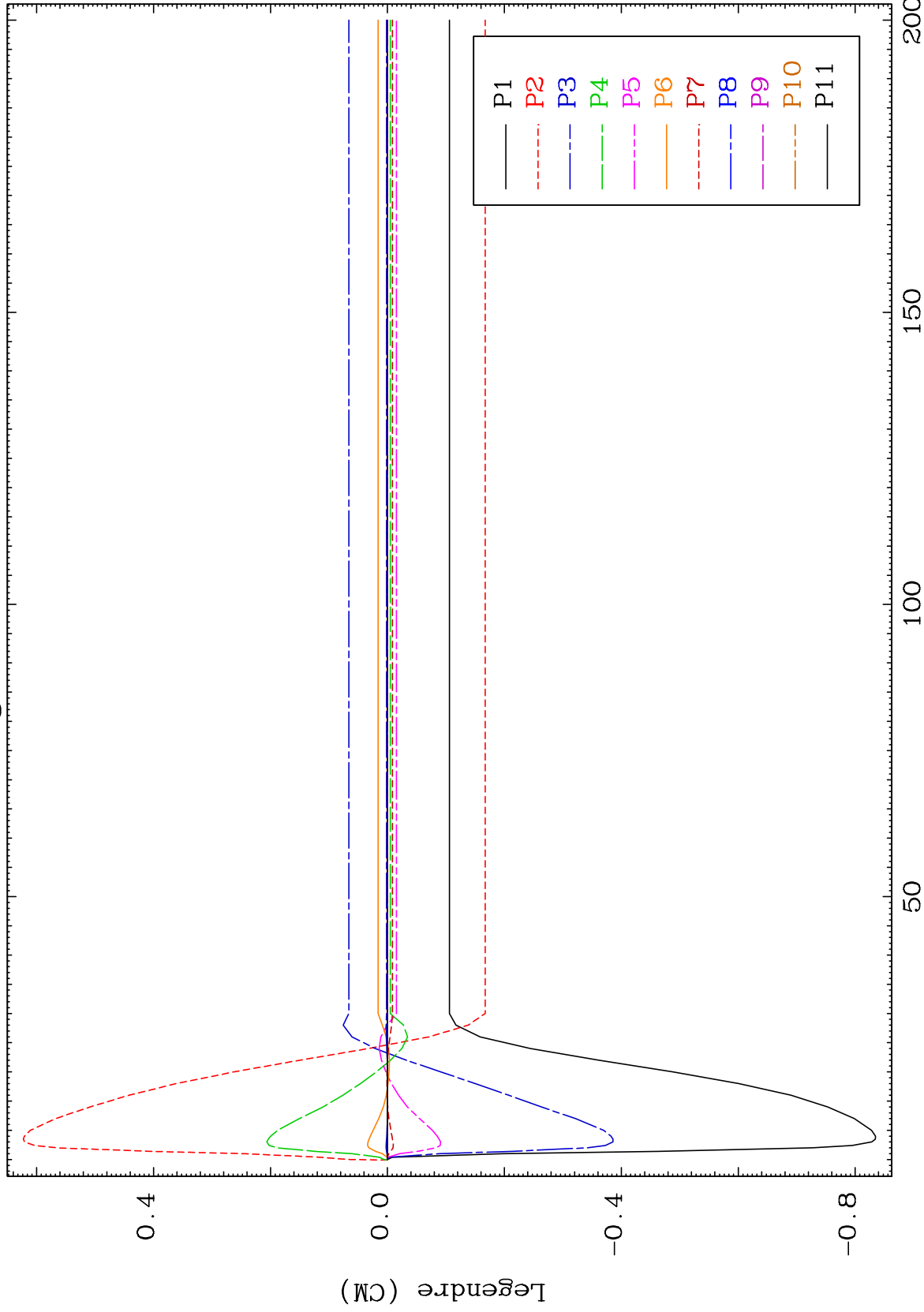
Incident Energy (MeV)

72-Hf-159

MAT 7180

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

72-Hf-159



60

Incident Energy (MeV)

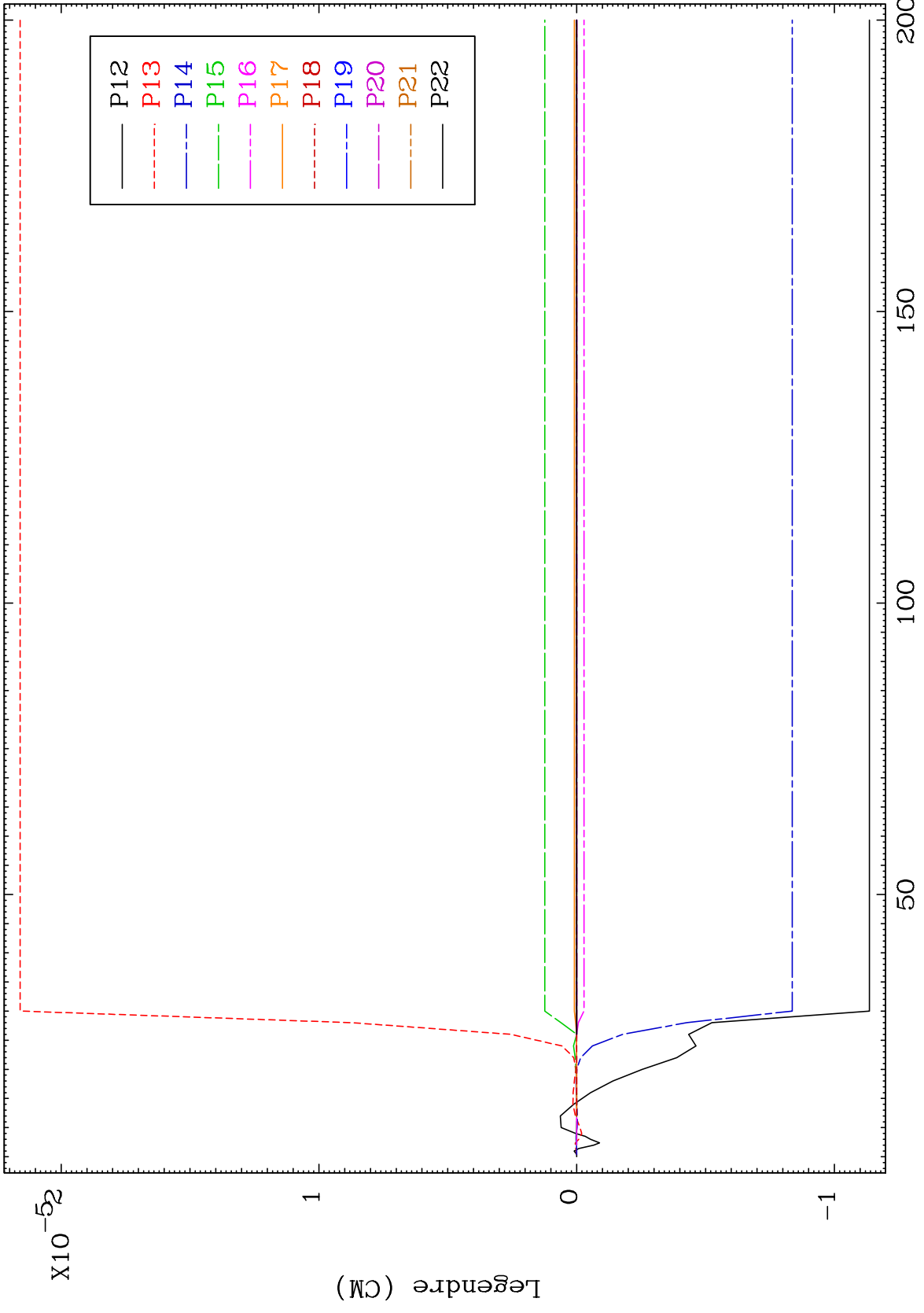
72-Hf-159

200

MAT 7180

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

72-Hf-159



61

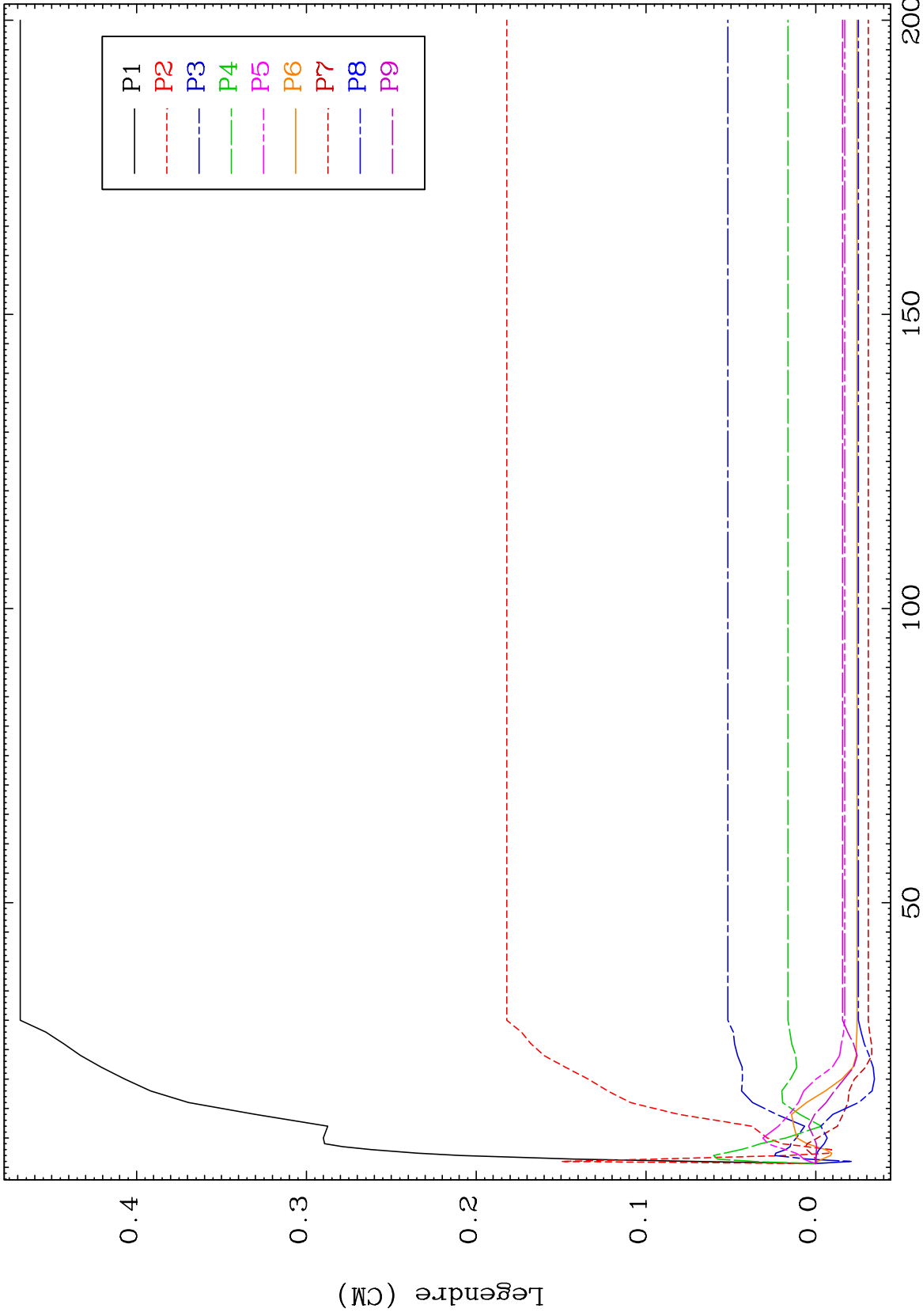
Incident Energy (MeV)

72-Hf-159

MAT 7180

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

72-Hf-159



62

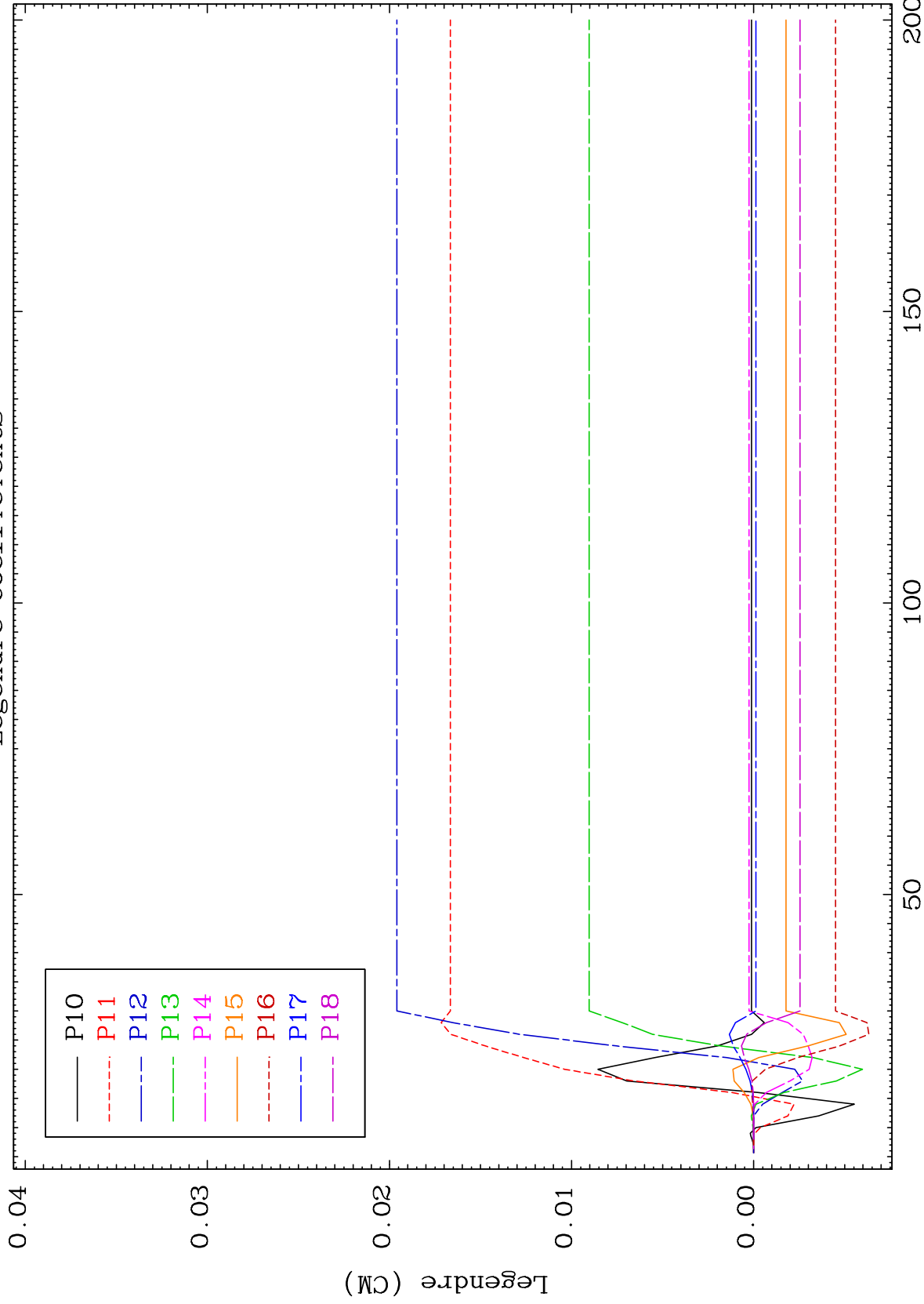
Incident Energy (MeV)

72-Hf-159

MAT 7180

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

72-Hf-159



63

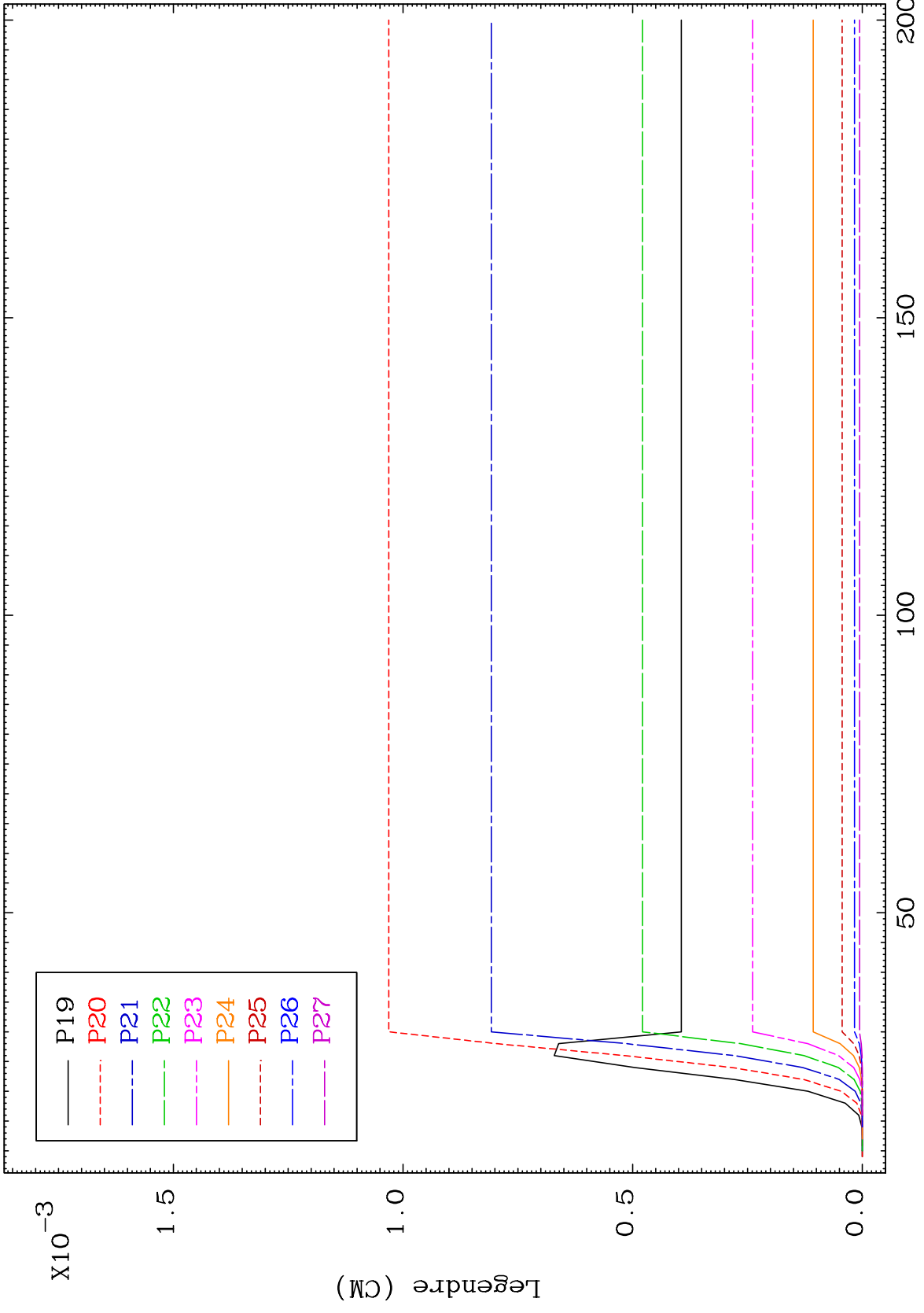
Incident Energy (MeV)

72-Hf-159

MAT 7180

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

72-Hf-159



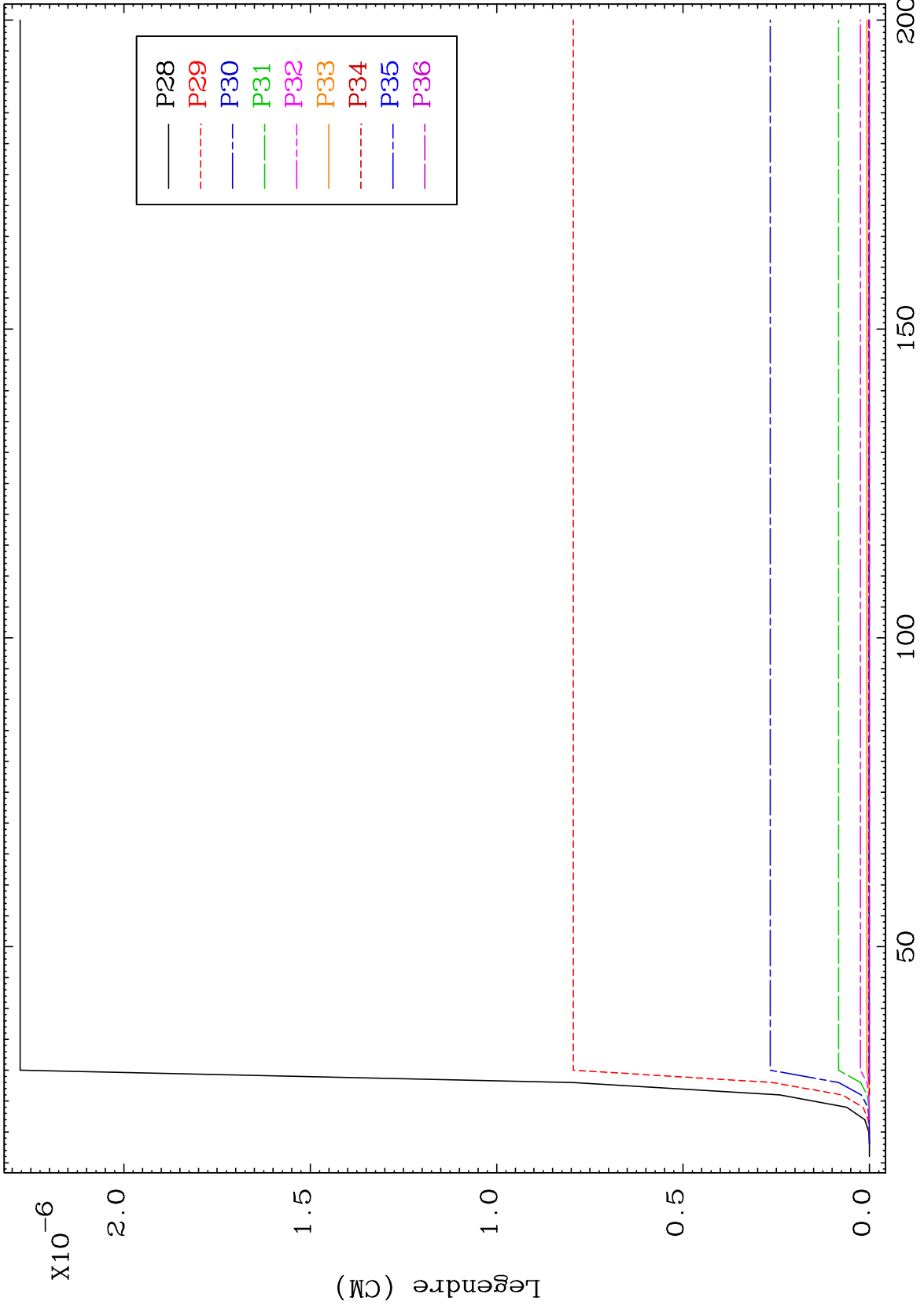
64

72-Hf-159

MAT 7180

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

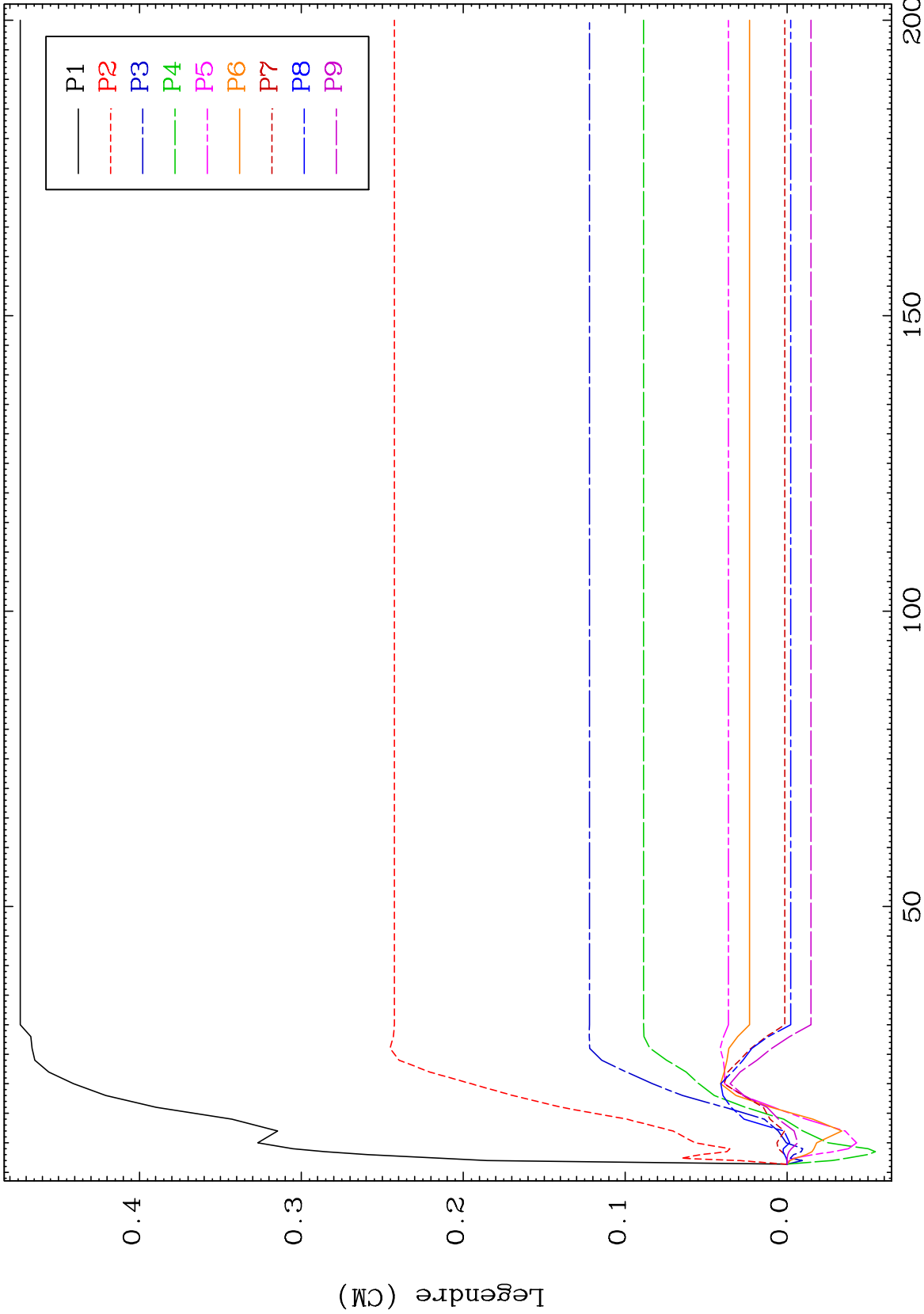
72-Hf-159



65

Incident Energy (MeV)

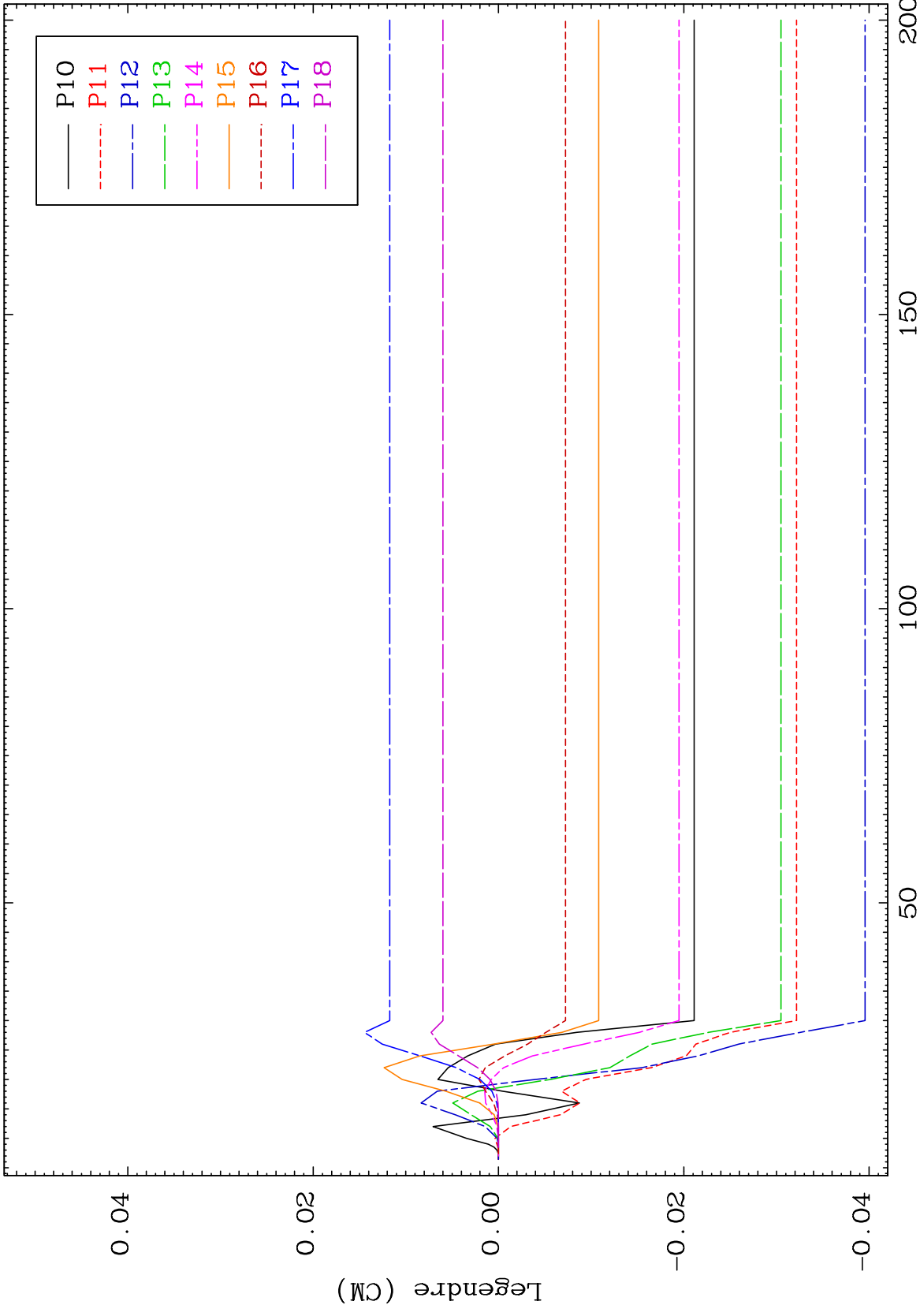
72-Hf-159



MAT 7180

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

72-Hf-159



67

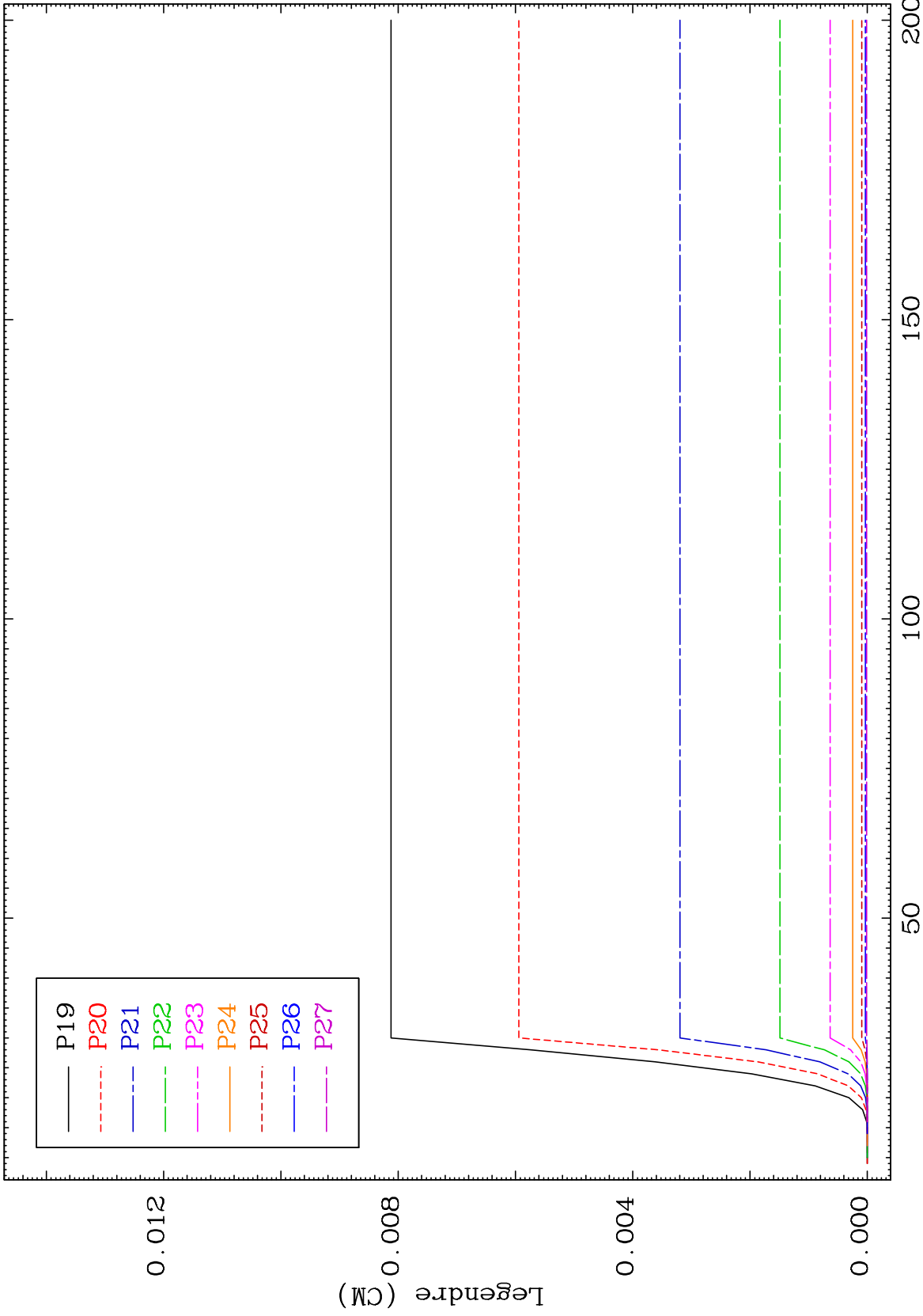
Incident Energy (MeV)

72-Hf-159

MAT 7180

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

72-Hf-159



68

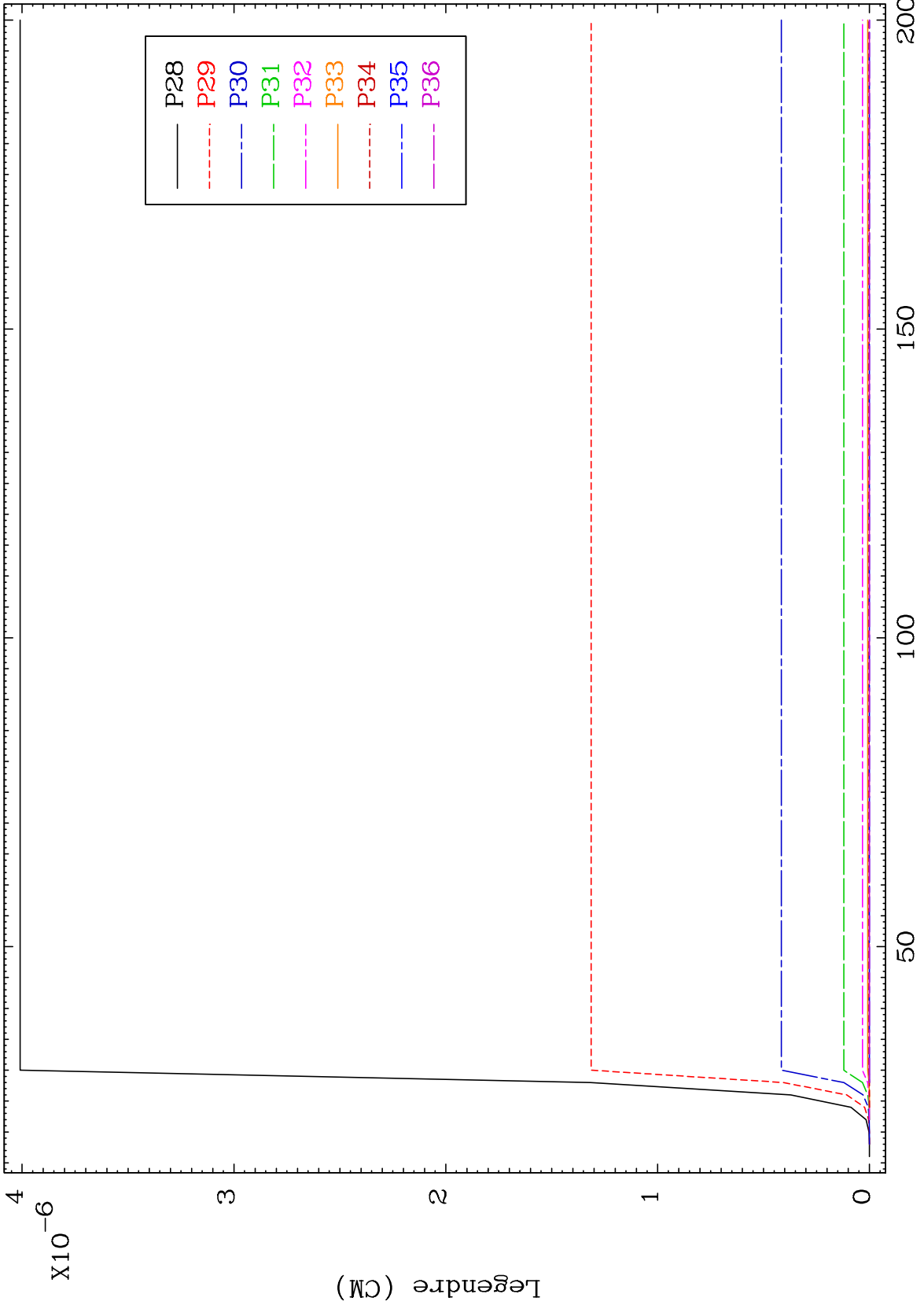
Incident Energy (MeV)

72-Hf-159

MAT 7180

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

72-Hf-159



69

Incident Energy (MeV)

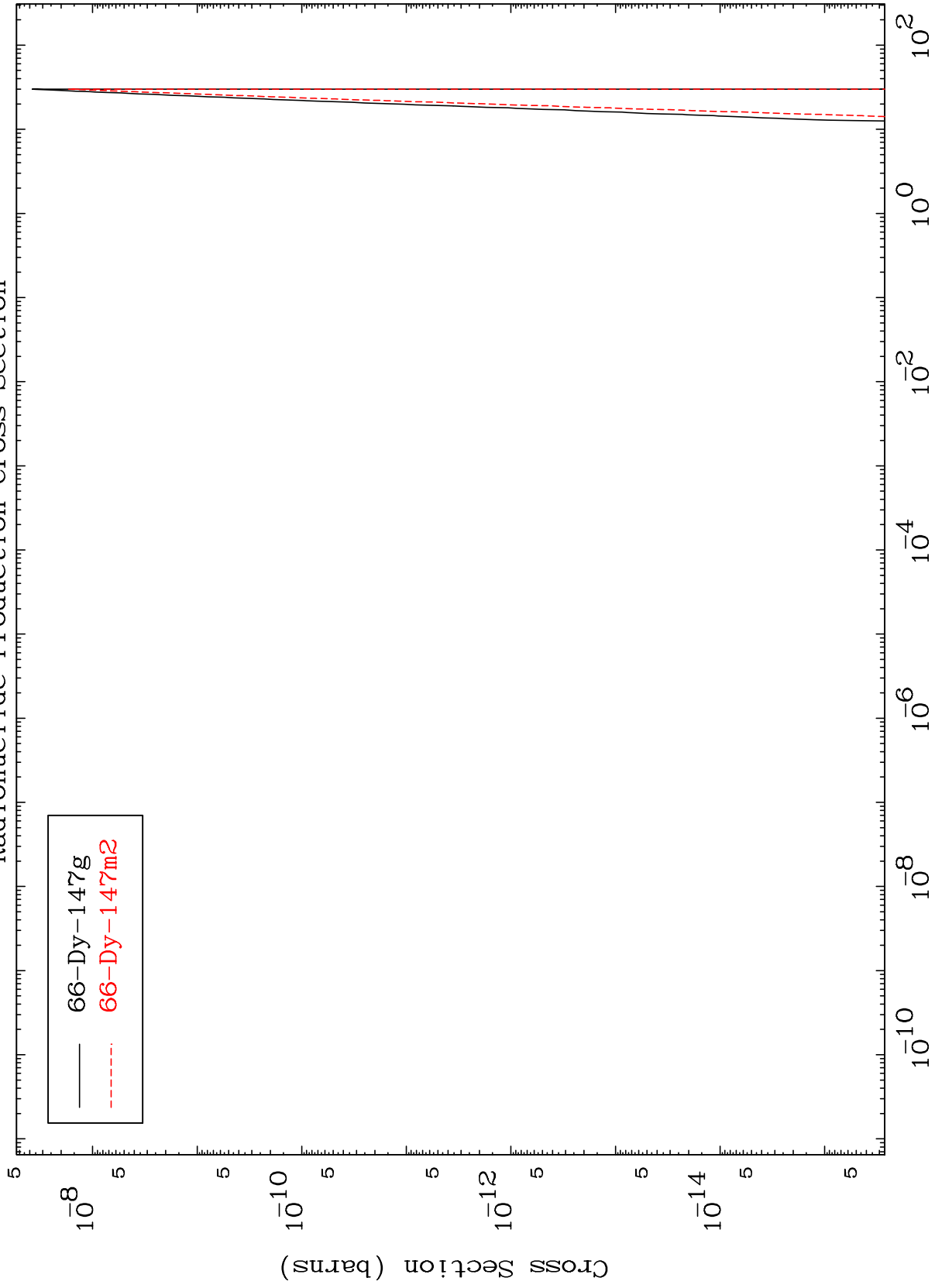
72-Hf-159

MAT 7180

(n,n') 3 α

72-Hf-159

Radionuclide Production Cross Section



70

Incident Energy (MeV)

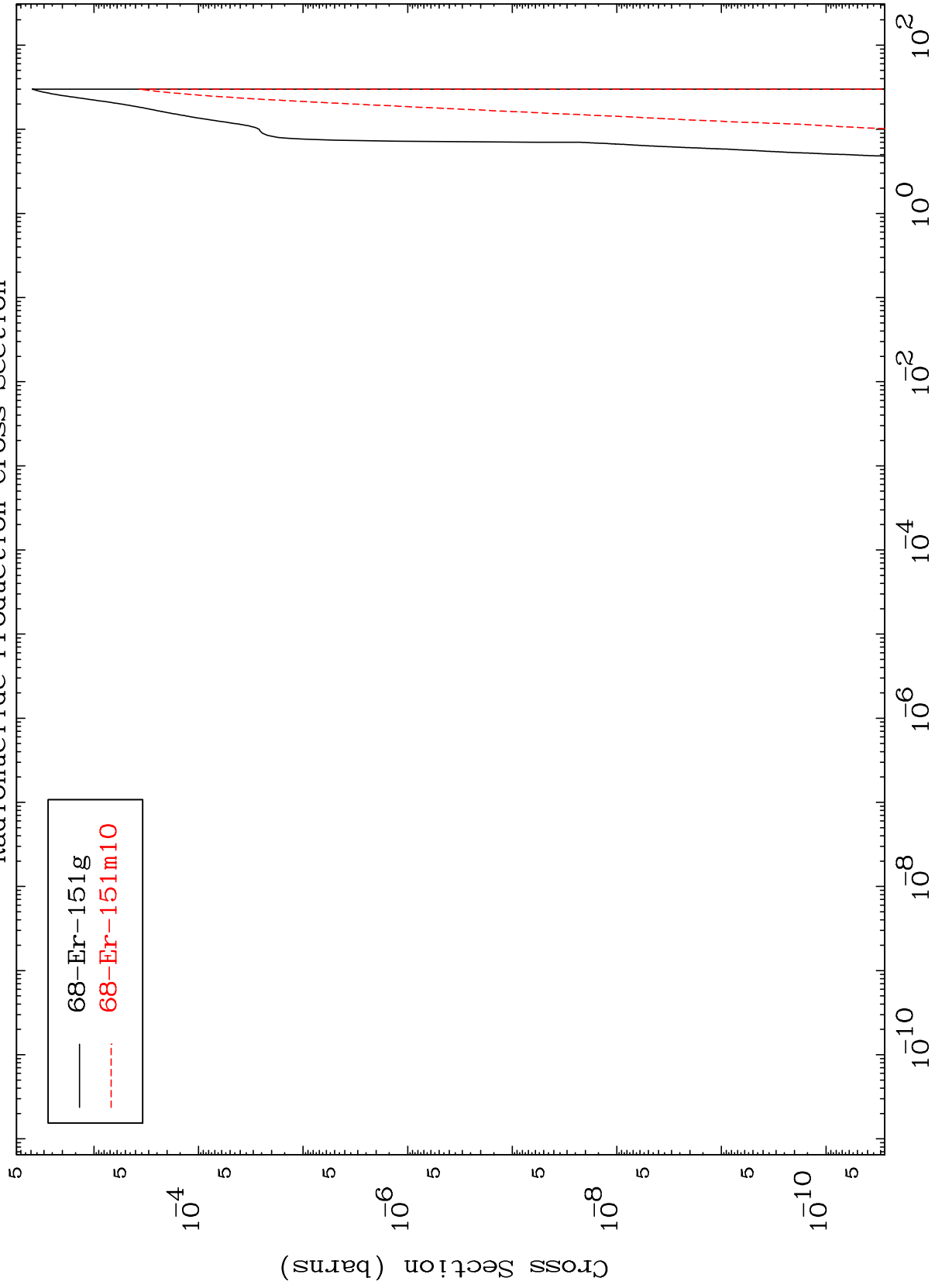
72-Hf-159

MAT 7180

(n,n') 2 α

72-Hf-159

Radionuclide Production Cross Section



68-Er-151g
68-Er-151m10

71

Incident Energy (MeV)

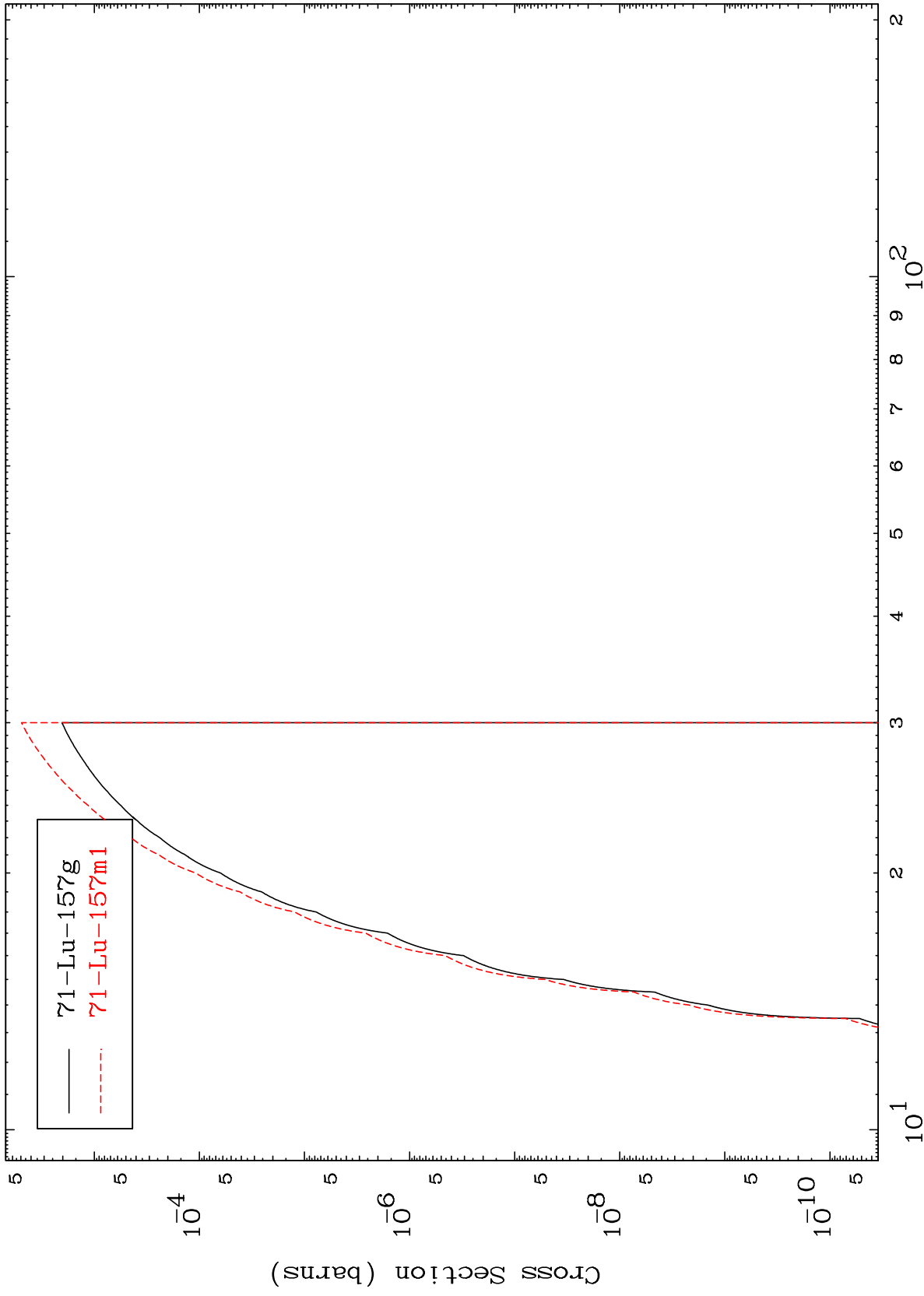
72-Hf-159

MAT 7180

(n,n') d

72-Hf-159

Radionuclide Production Cross Section



72

Incident Energy (MeV)

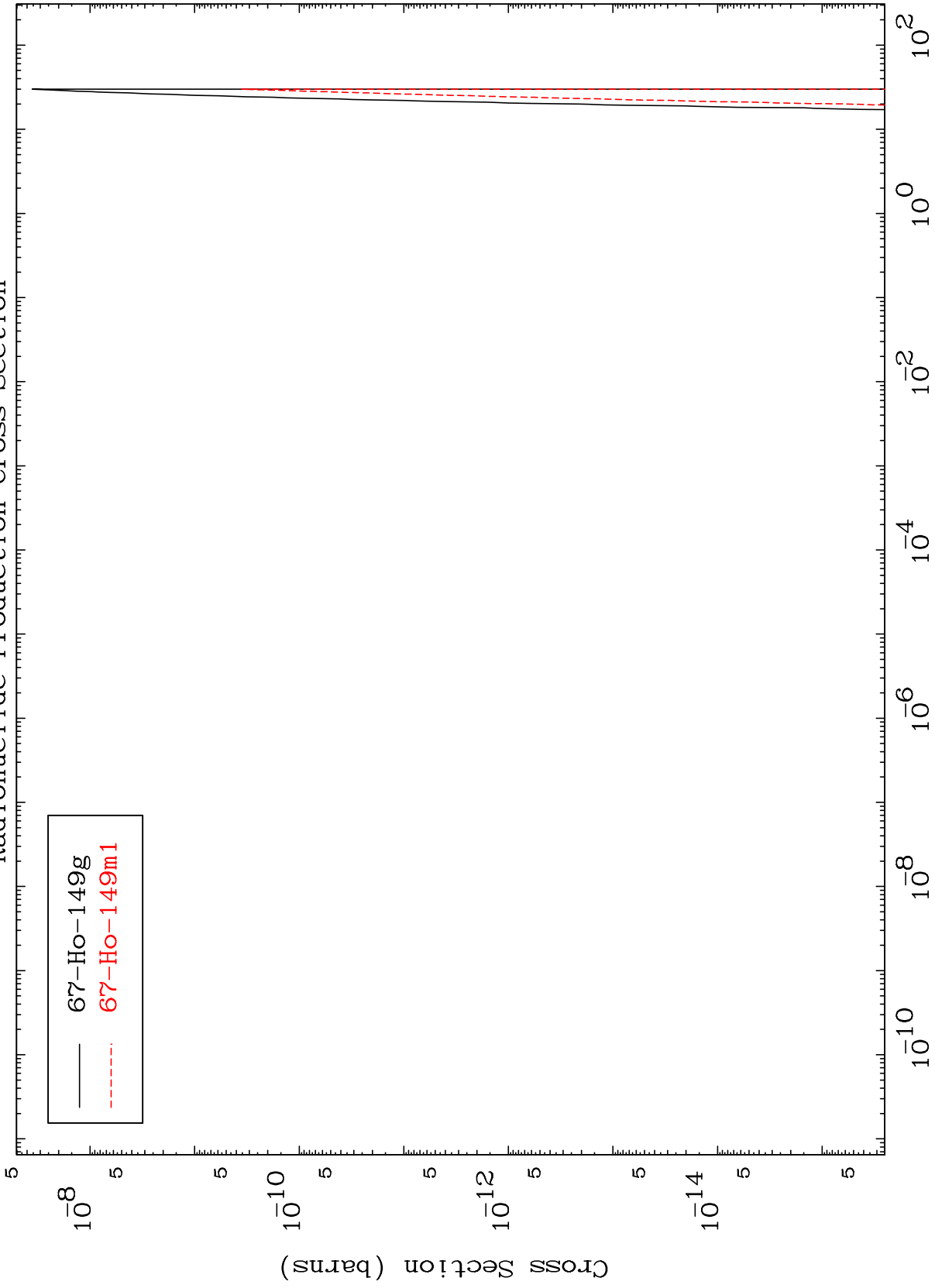
72-Hf-159

MAT 7180

(n, n') d, 2α

72-Hf-159

Radionuclide Production Cross Section



73

Incident Energy (MeV)

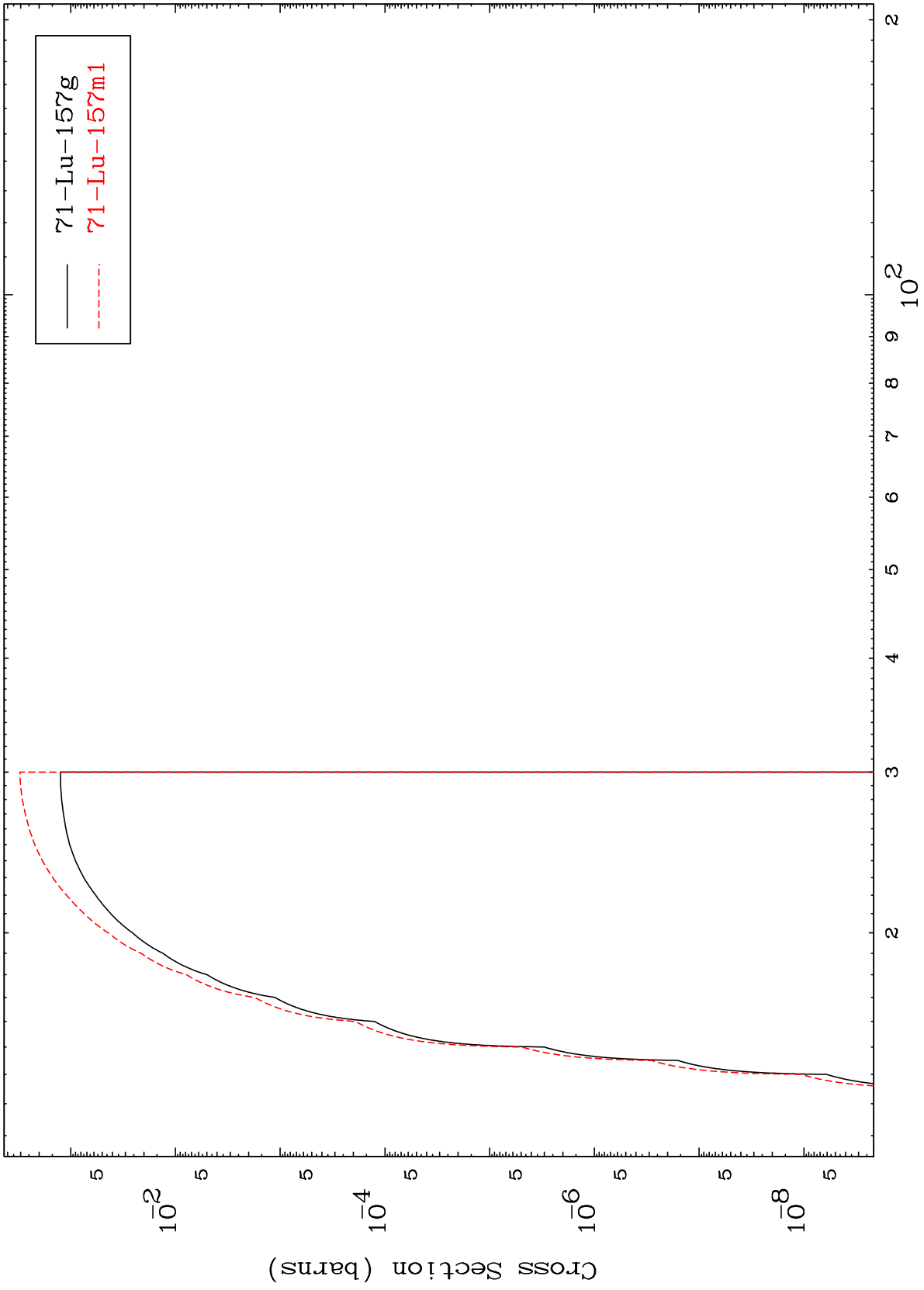
72-Hf-159

MAT 7180

(n,2n) p

72-Hf-159

Radionuclide Production Cross Section



74

Incident Energy (MeV)

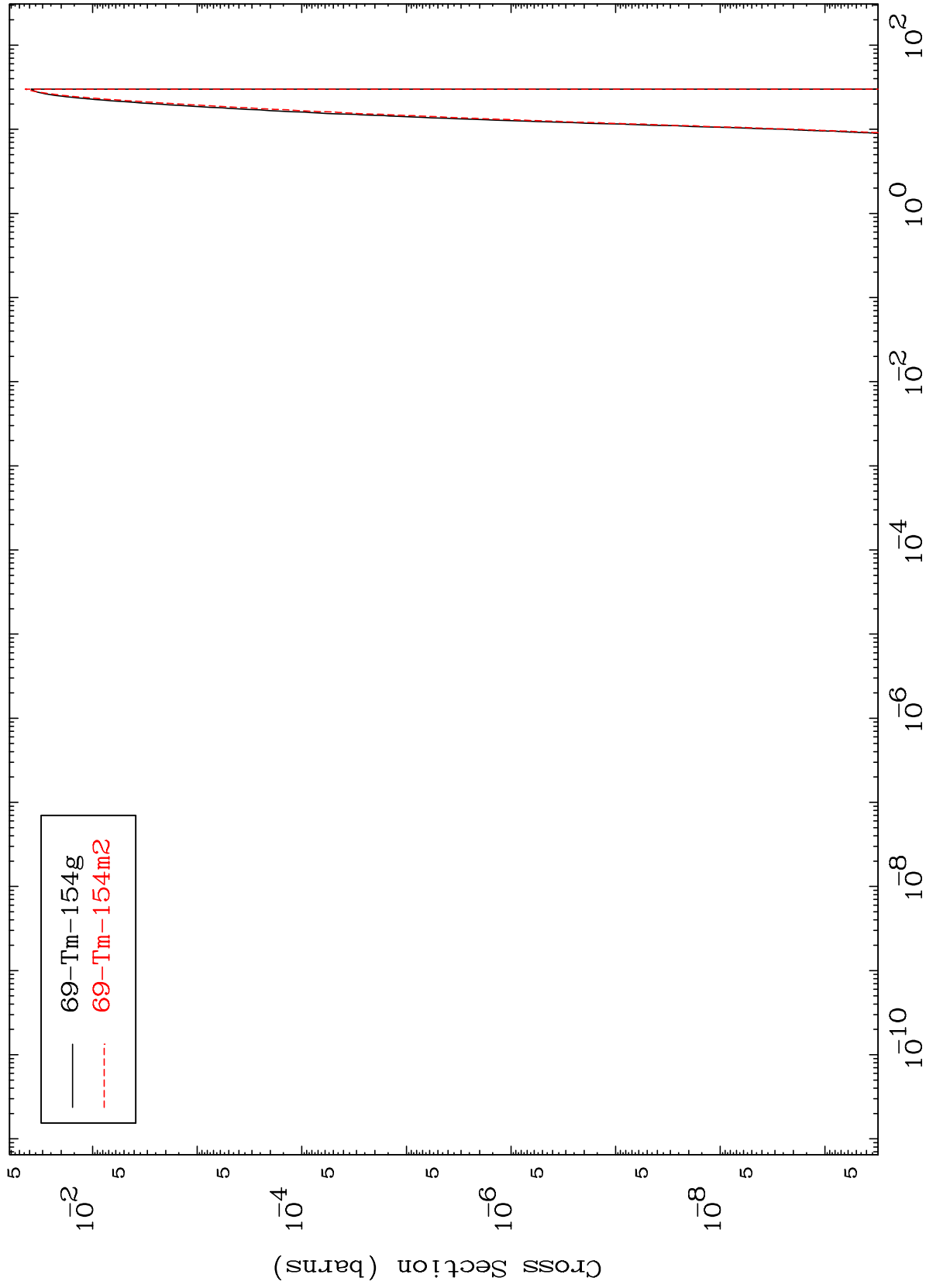
72-Hf-159

MAT 7180

(n,n') p α

72-Hf-159

Radionuclide Production Cross Section



75

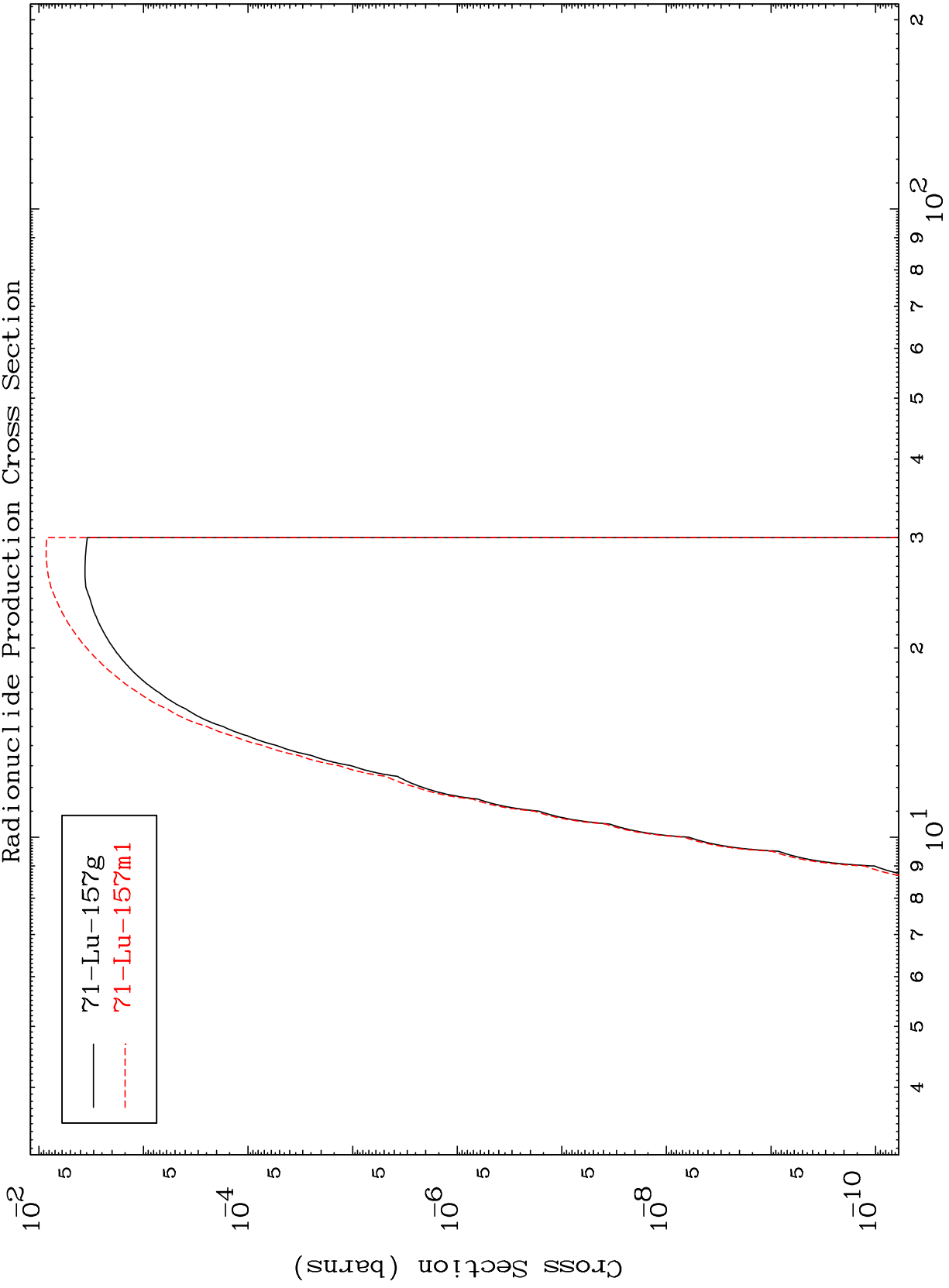
Incident Energy (MeV)

72-Hf-159

MAT 7180

72-Hf-159

(n, t)
Radionuclide Production Cross Section



76

Incident Energy (MeV)

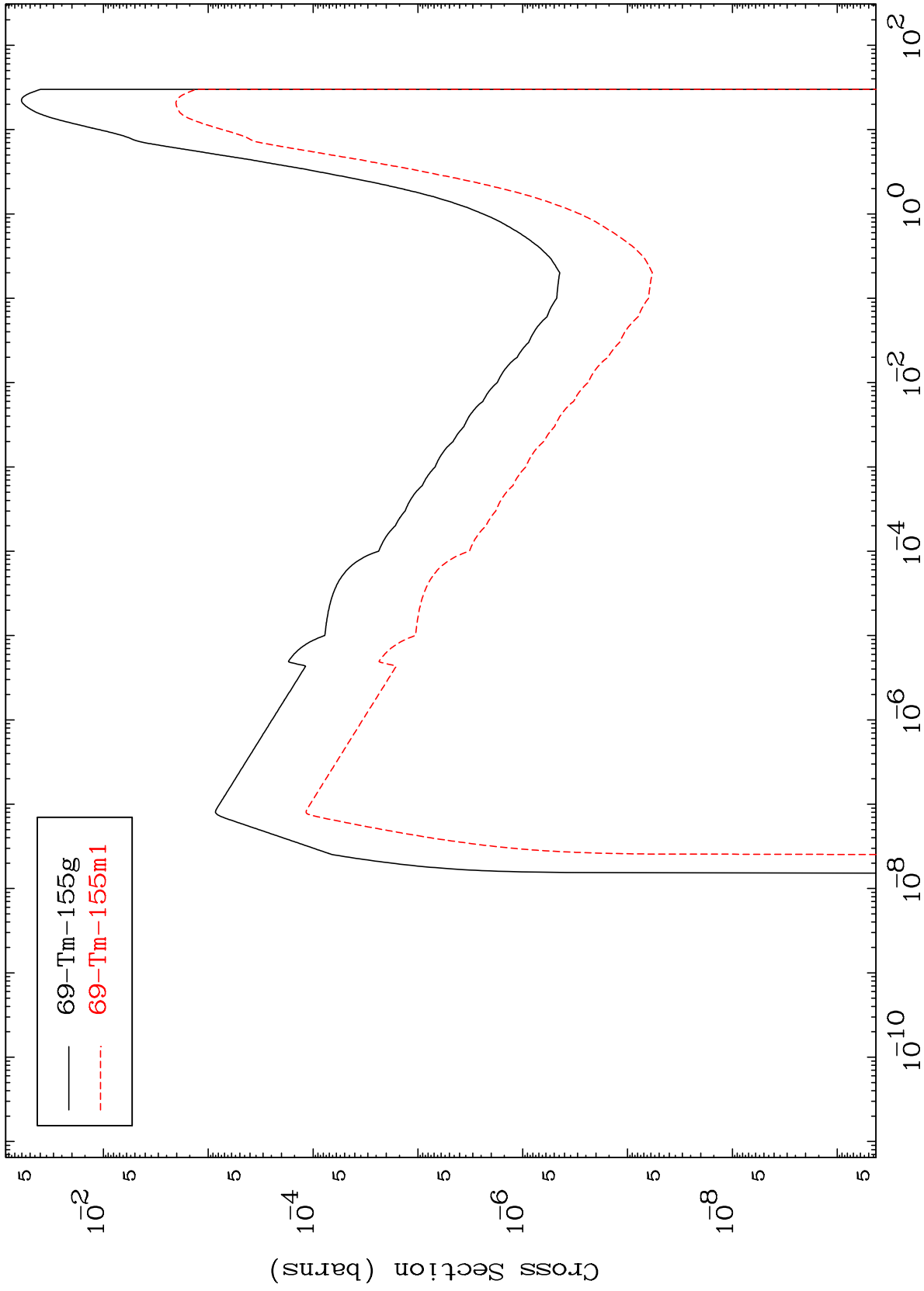
72-Hf-159

MAT 7180

(n,p) α

72-Hf-159

Radionuclide Production Cross Section



77

Incident Energy (MeV)

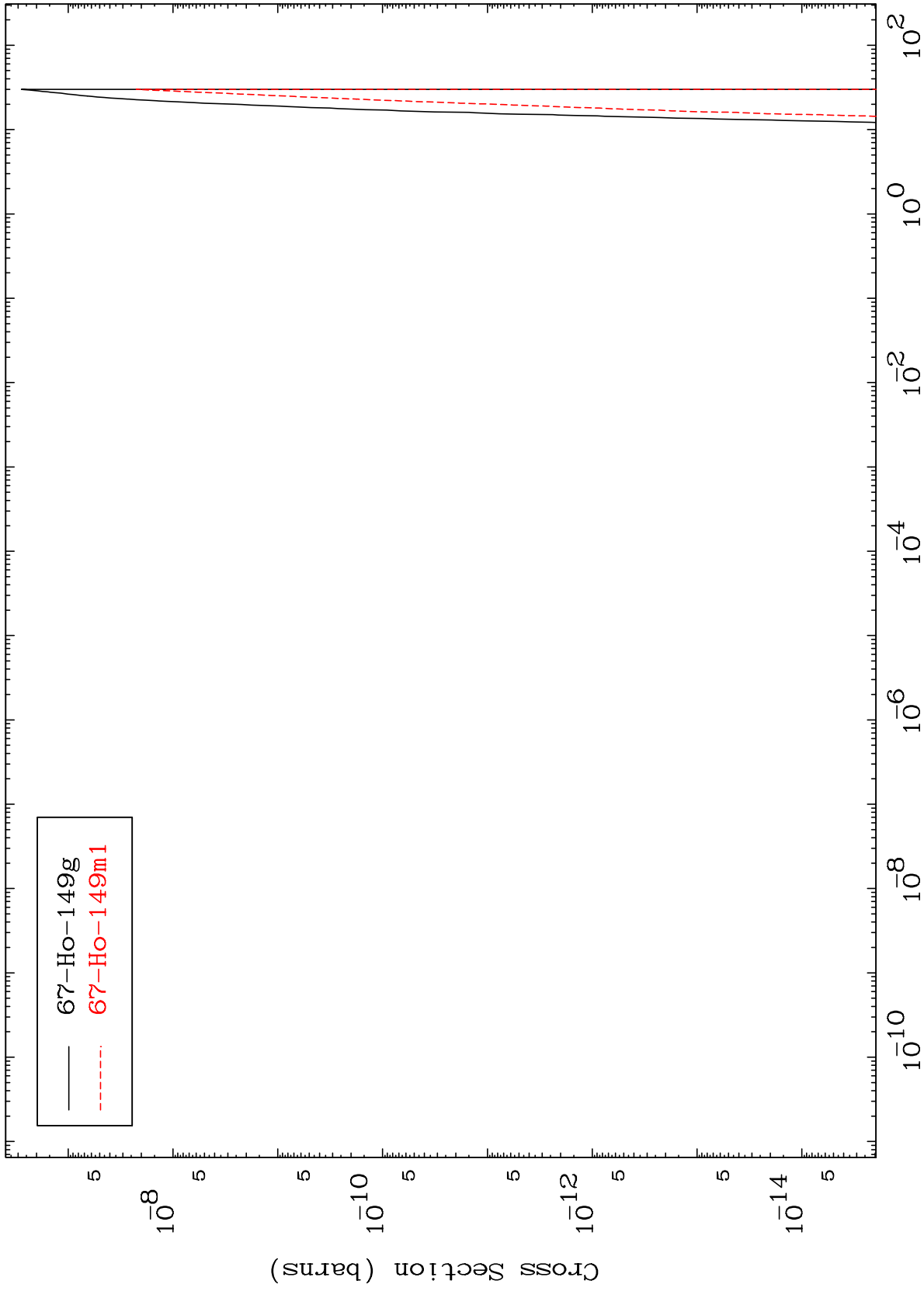
72-Hf-159

MAT 7180

(n, t) 2α

72-Hf-159

Radionuclide Production Cross Section



78

Incident Energy (MeV)

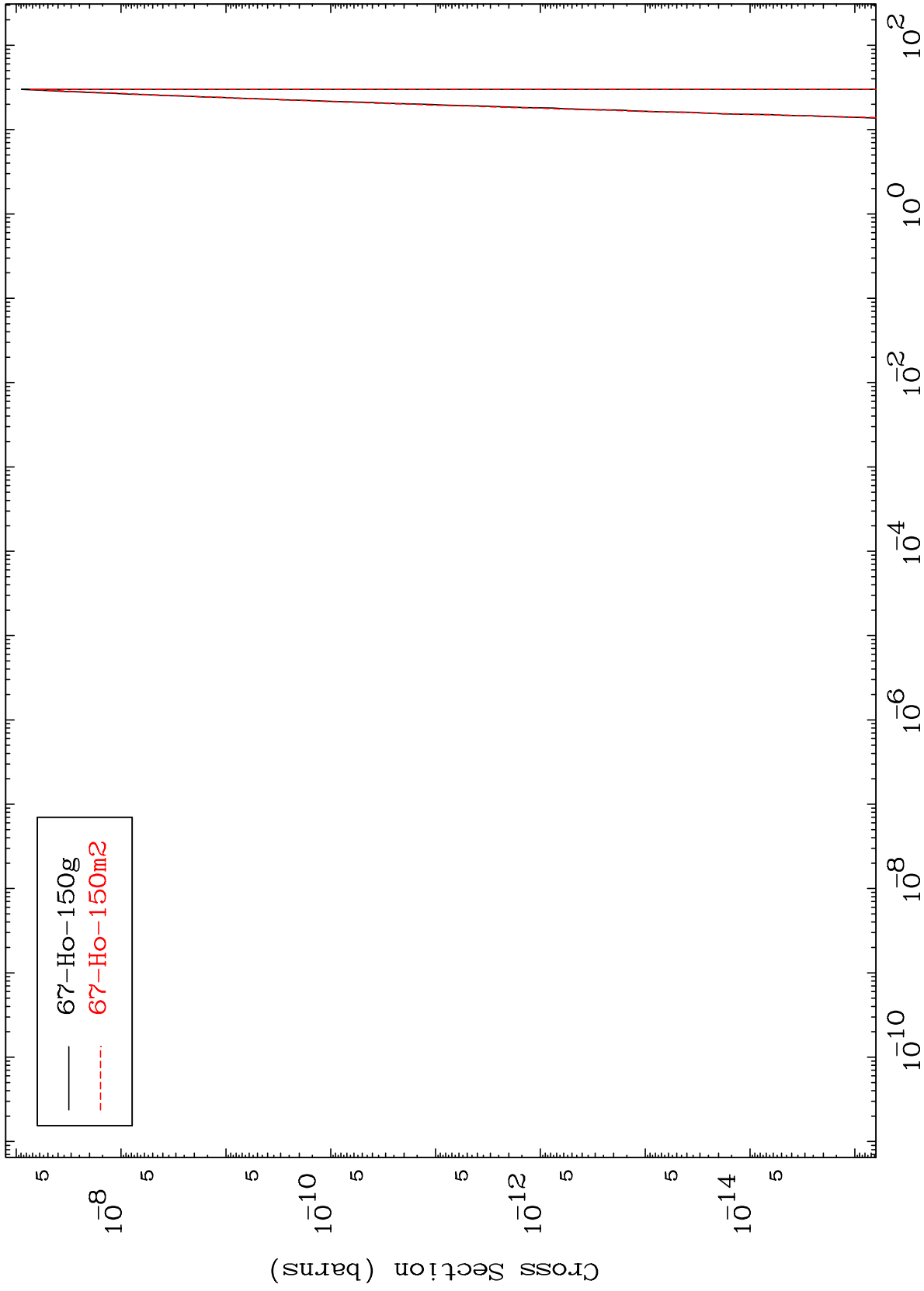
72-Hf-159

MAT 7180

(n,d) 2α

72-Hf-159

Radionuclide Production Cross Section



79

Incident Energy (MeV)

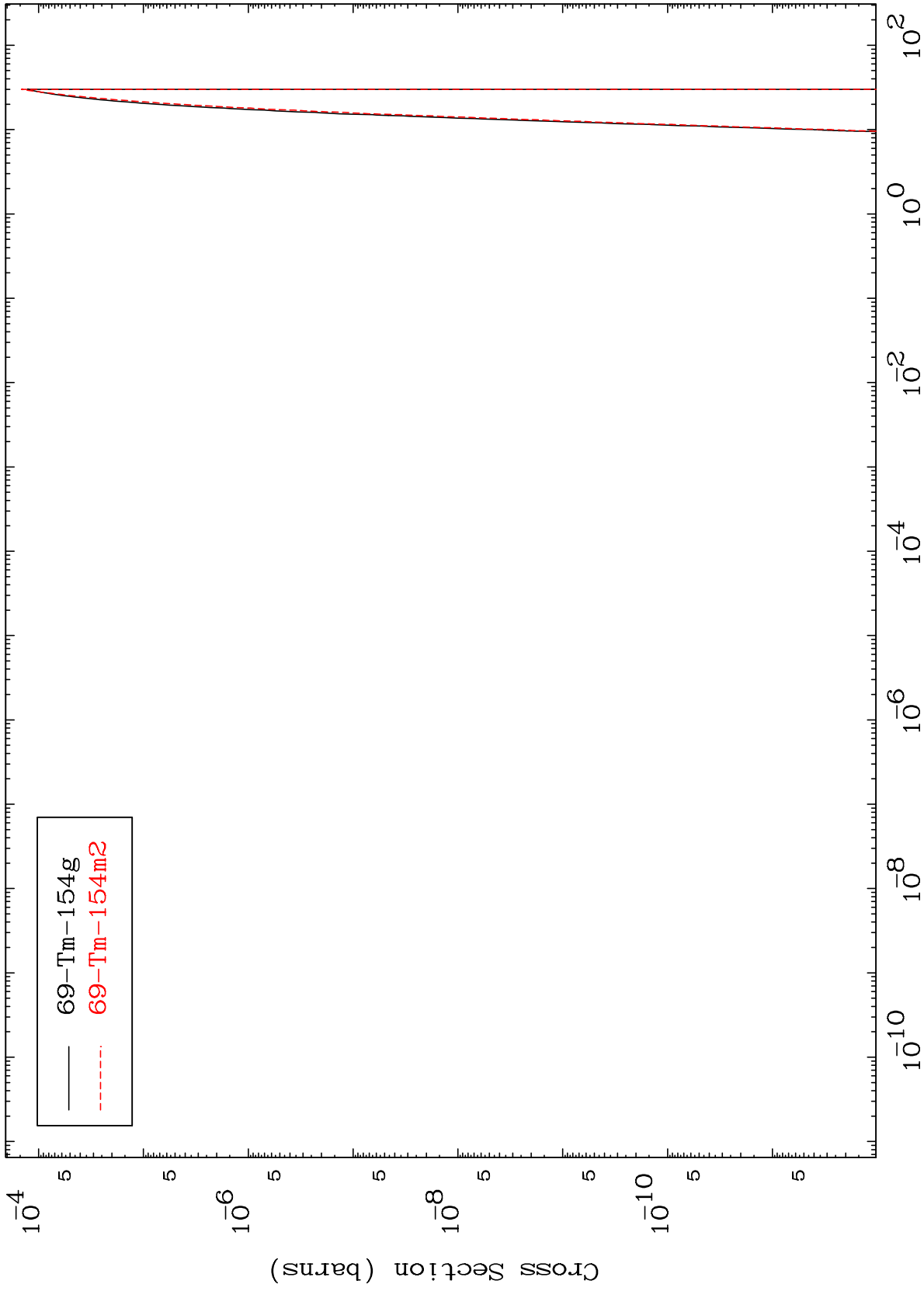
72-Hf-159

MAT 7180

(n,d) α

72-Hf-159

Radionuclide Production Cross Section



80

Incident Energy (MeV)

72-Hf-159