

Program EVALPLOT
(Version 2018-1)

by

Dermott E. Cullen
(Present Contact Information)

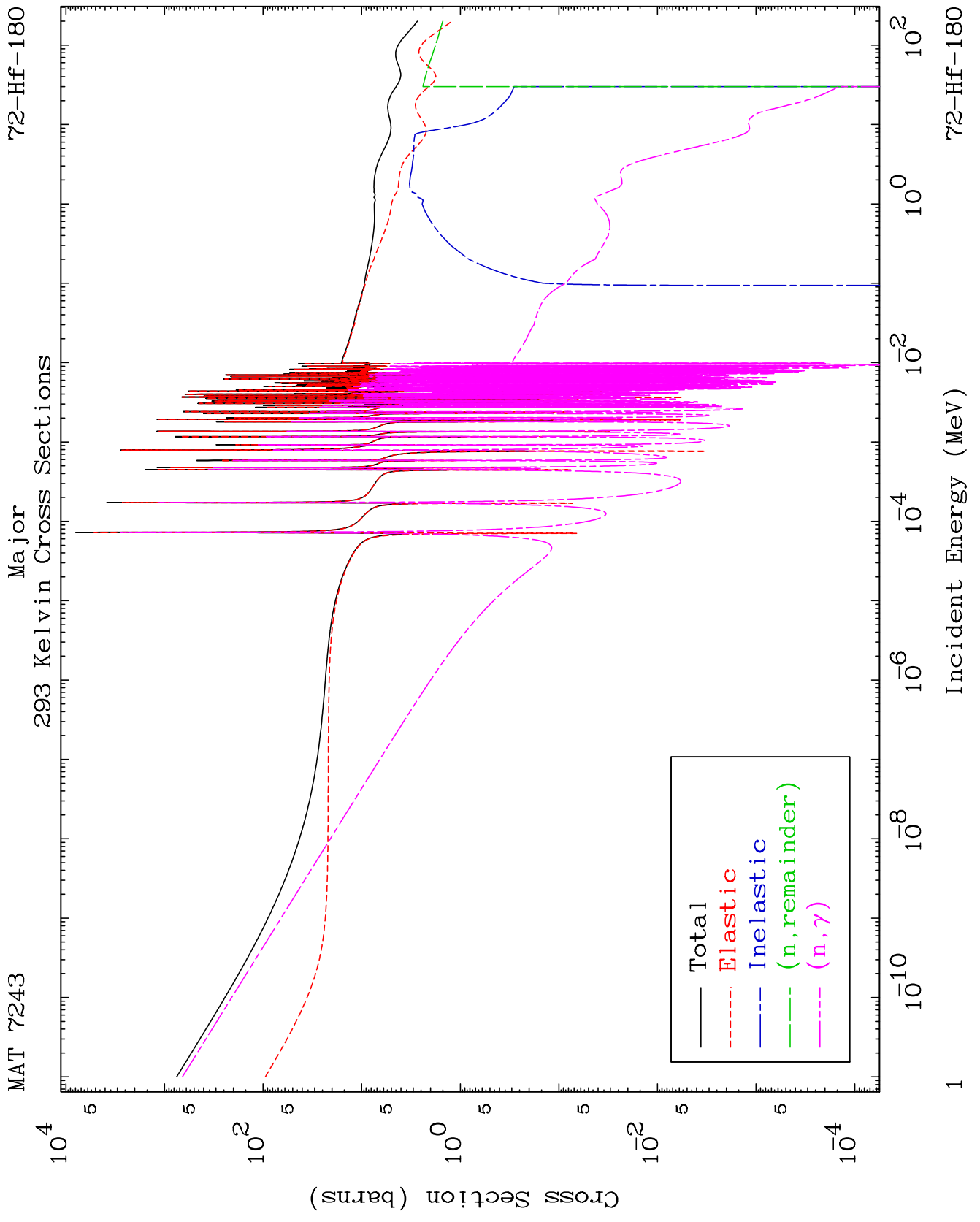
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Tele: 925-443-1911

E.Mail:redcullen1@comcast.net

Web:redcullen1.net/HOMEPAGE.NEW

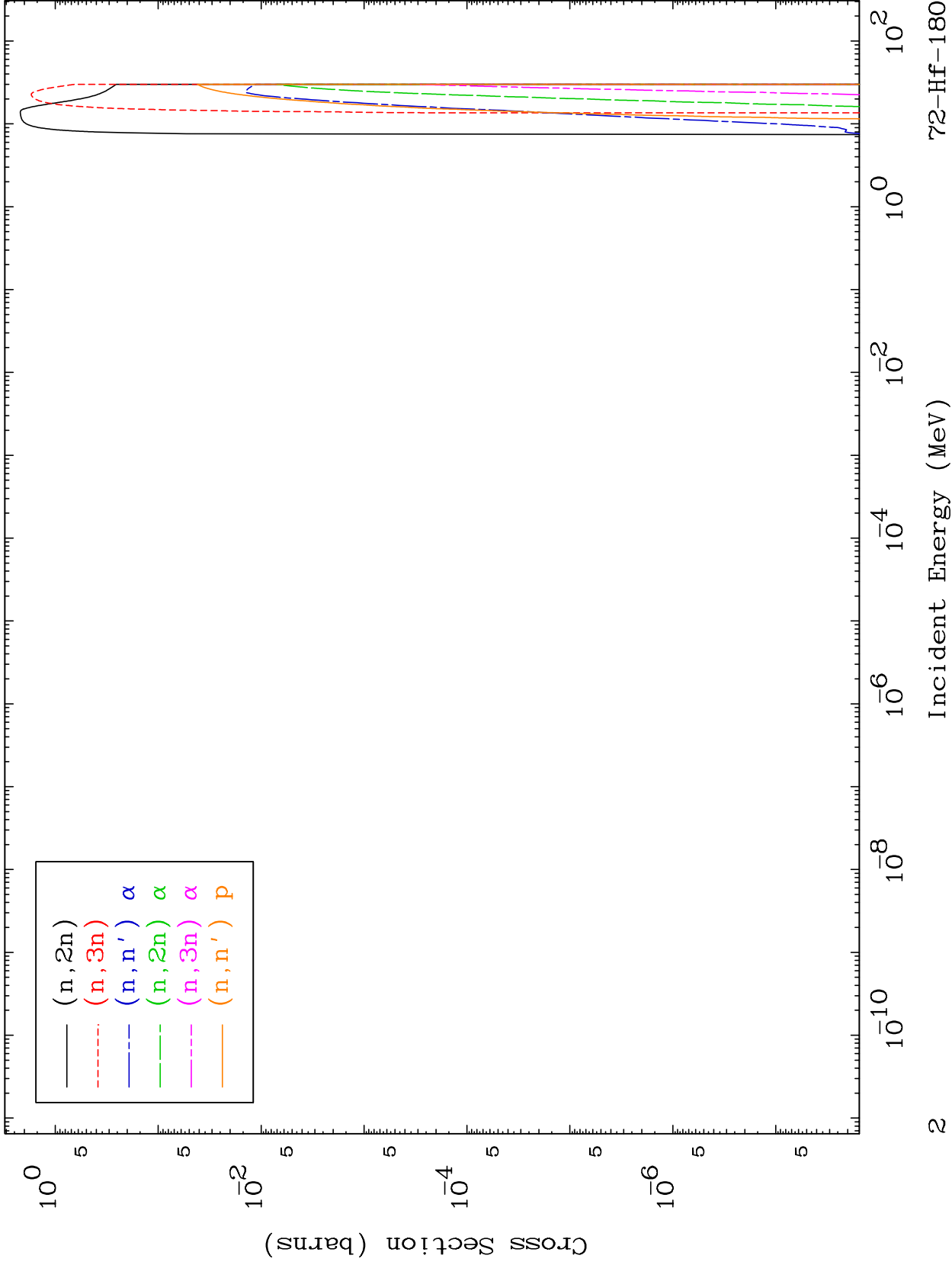
Press Mouse Button to Start

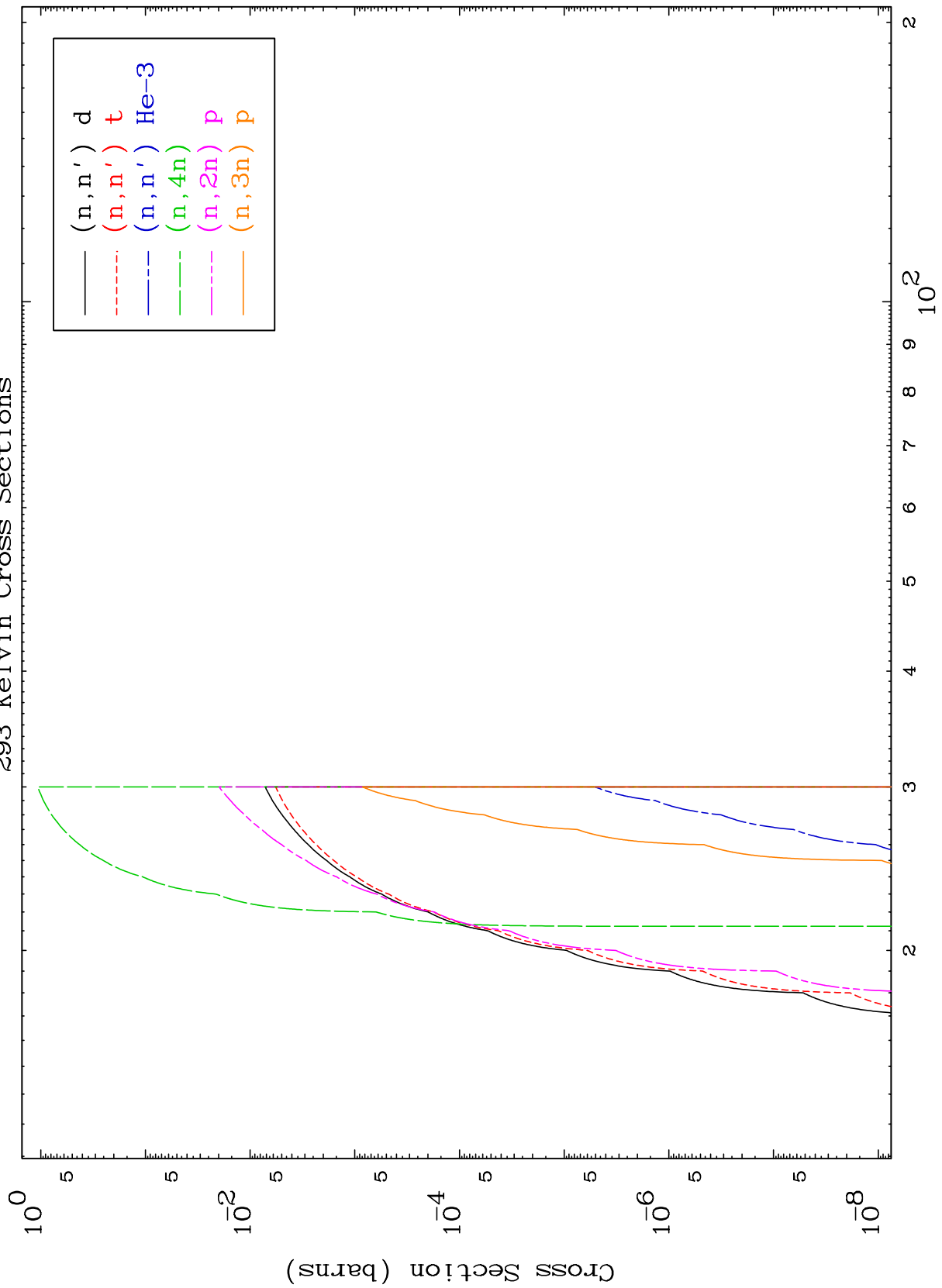


MAT 7243

Neutron Production
293 Kelvin Cross Sections

72-Hf-180

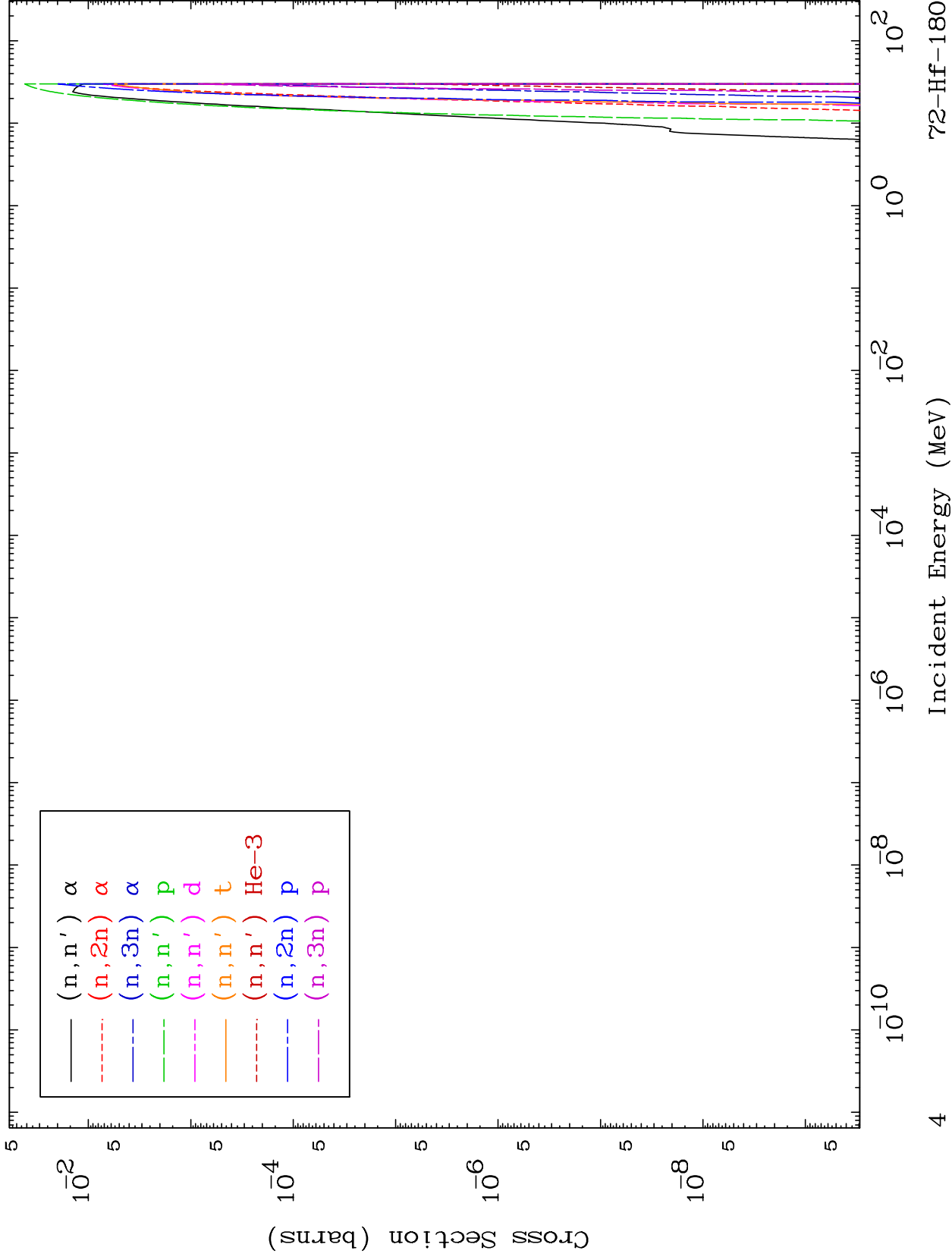




MAT 7243

Charged Particle
293 Kelvin Cross Sections

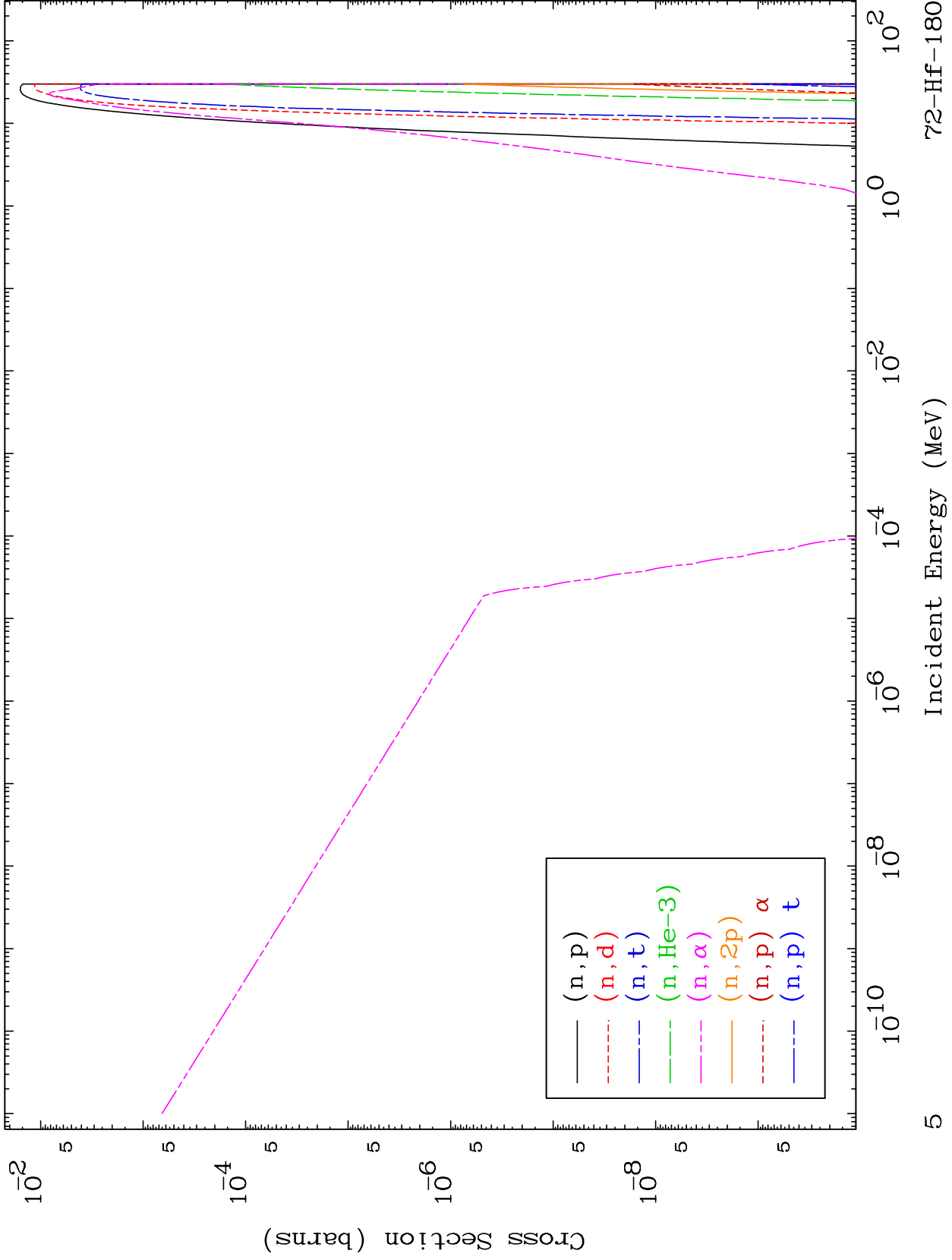
72-Hf-180



MAT 7243

Charged Particle
293 Kelvin Cross Sections

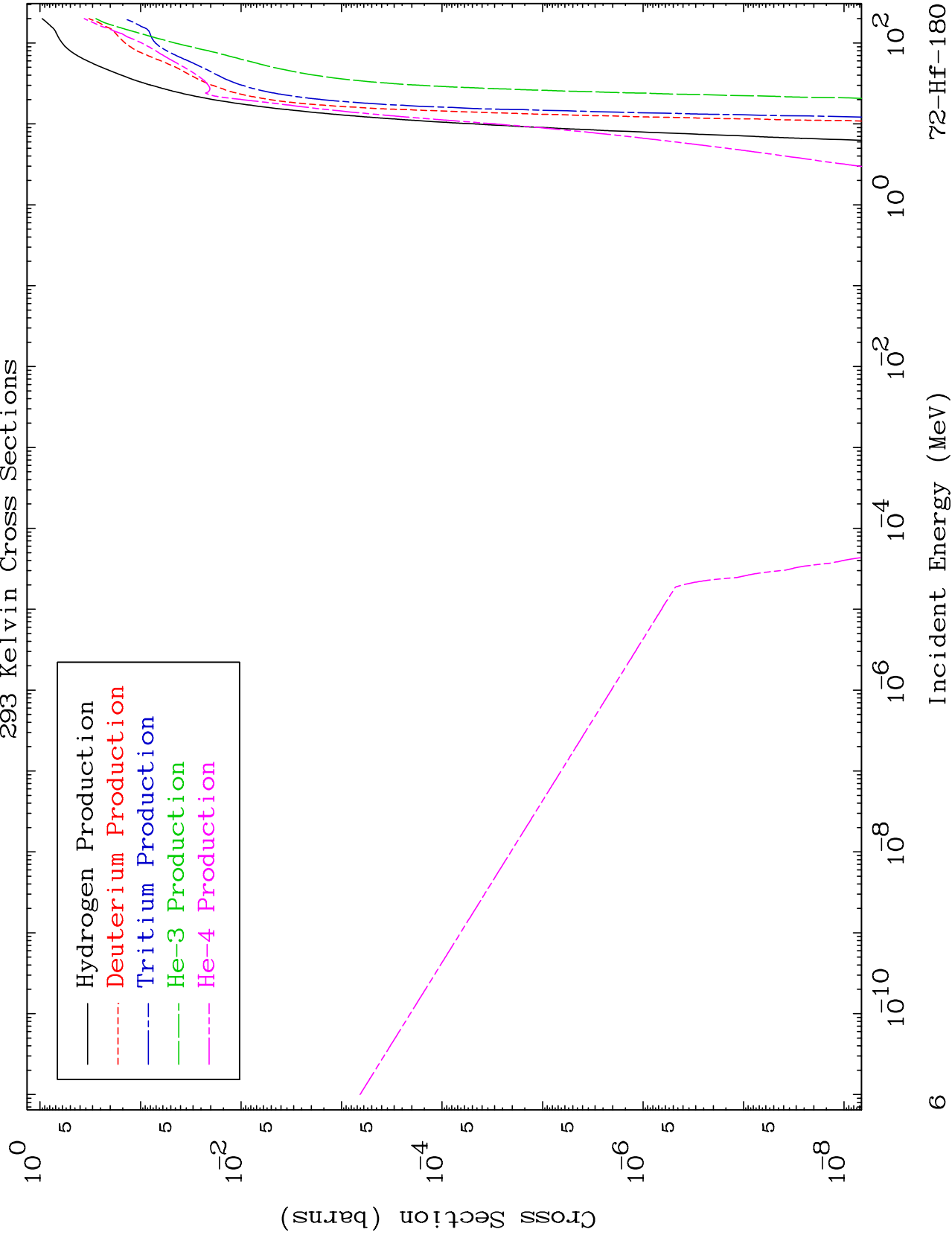
72-Hf-180



MAT 7243

Particle Production
293 Kelvin Cross Sections

72-Hf-180

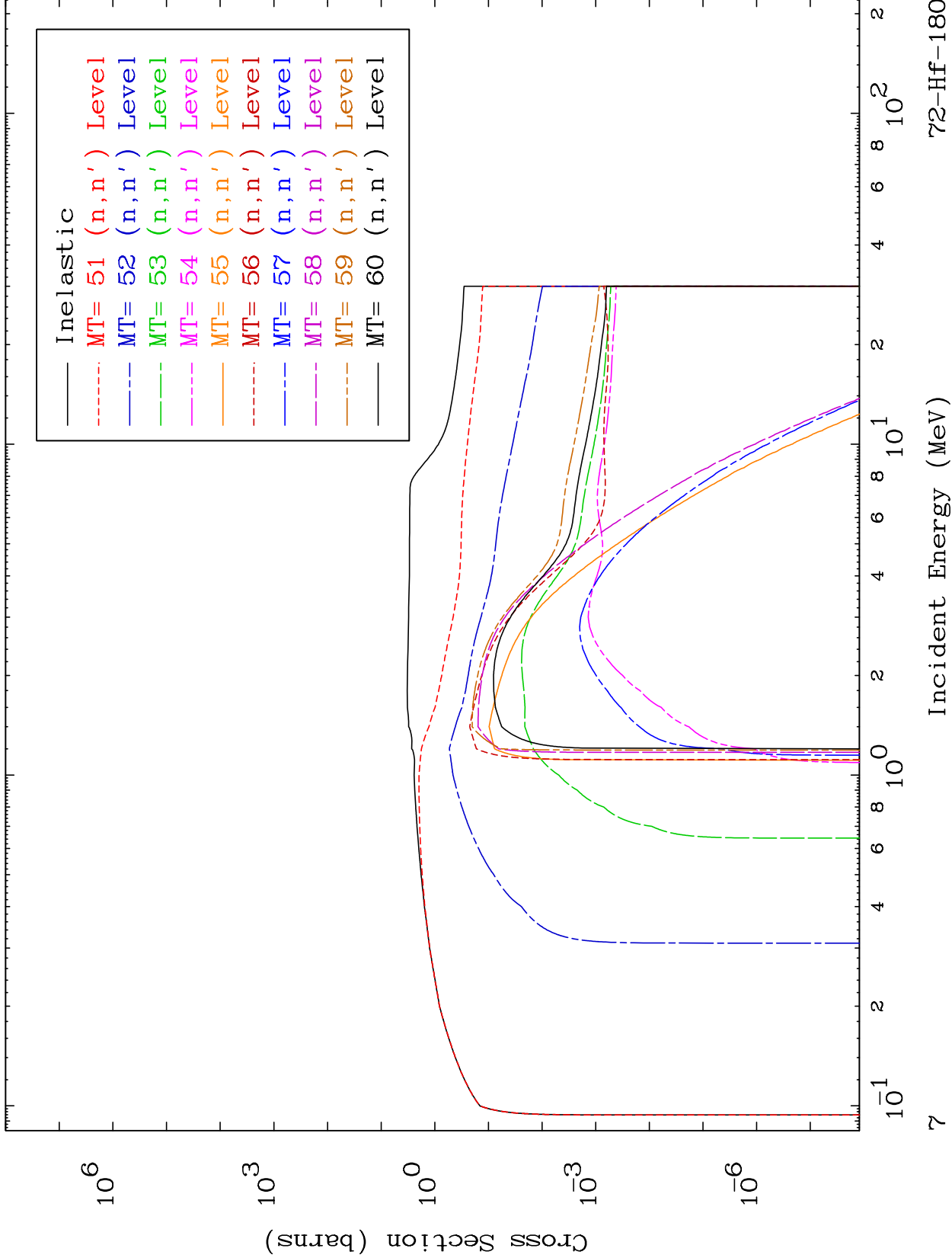


MAT 7243

(n,n') Level

72-Hf-180

293 Kelvin Cross Sections



Incident Energy (MeV)

72-Hf-180

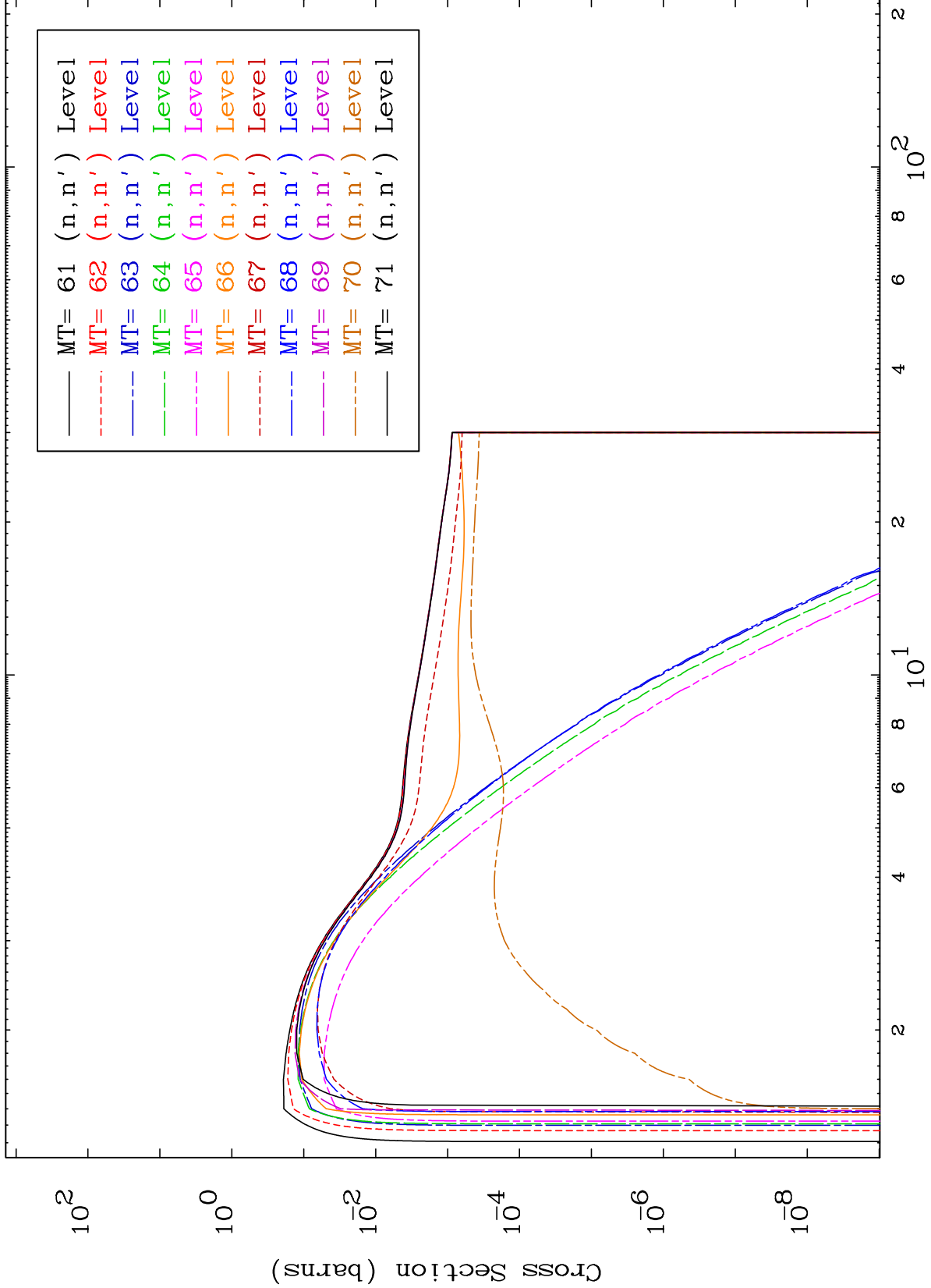
7

MAT 7243

(n,n') Level

293 Kelvin Cross Sections

72-Hf-180



8

Incident Energy (MeV)

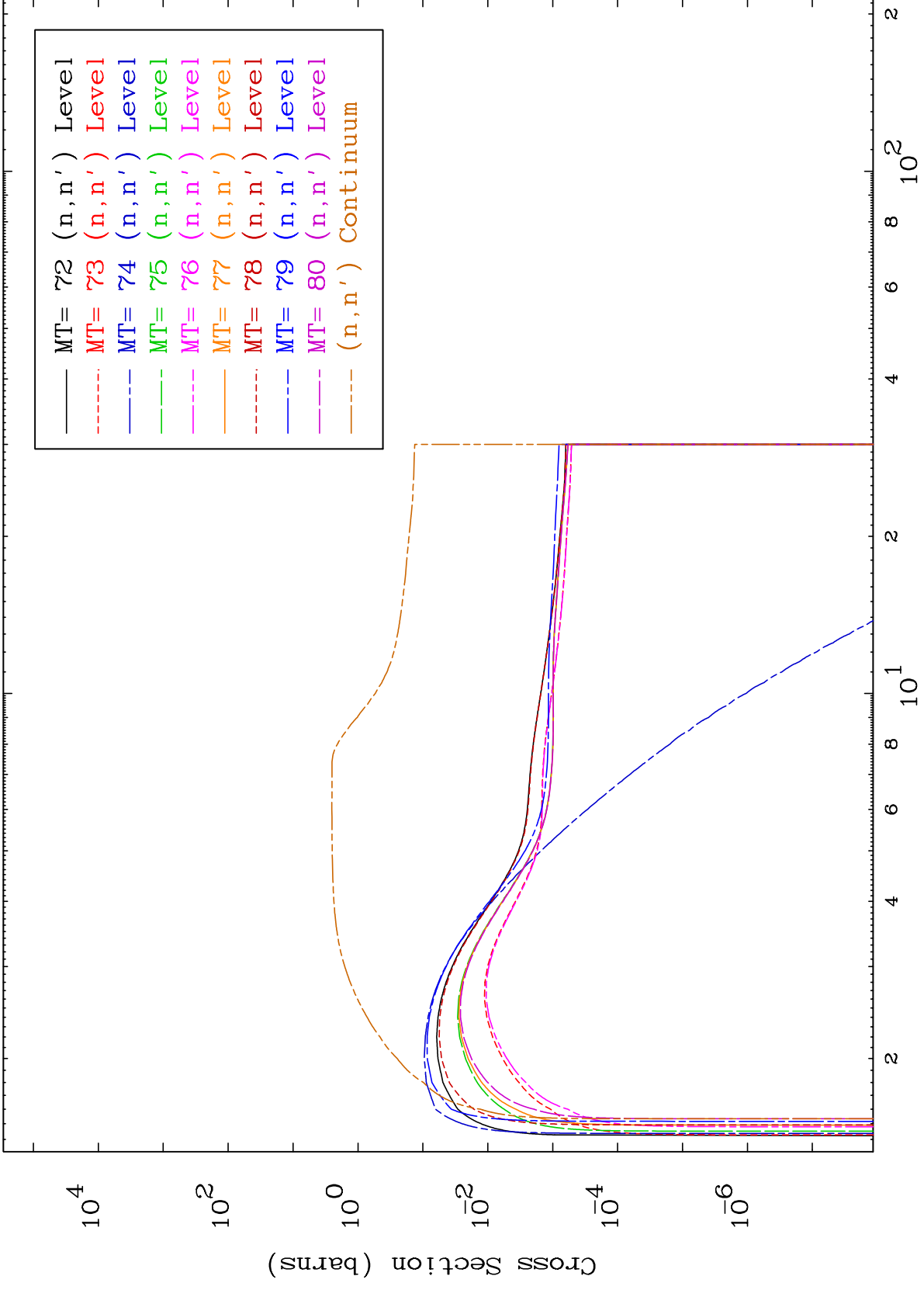
72-Hf-180

MAT 7243

(n,n') Level

72-Hf-180

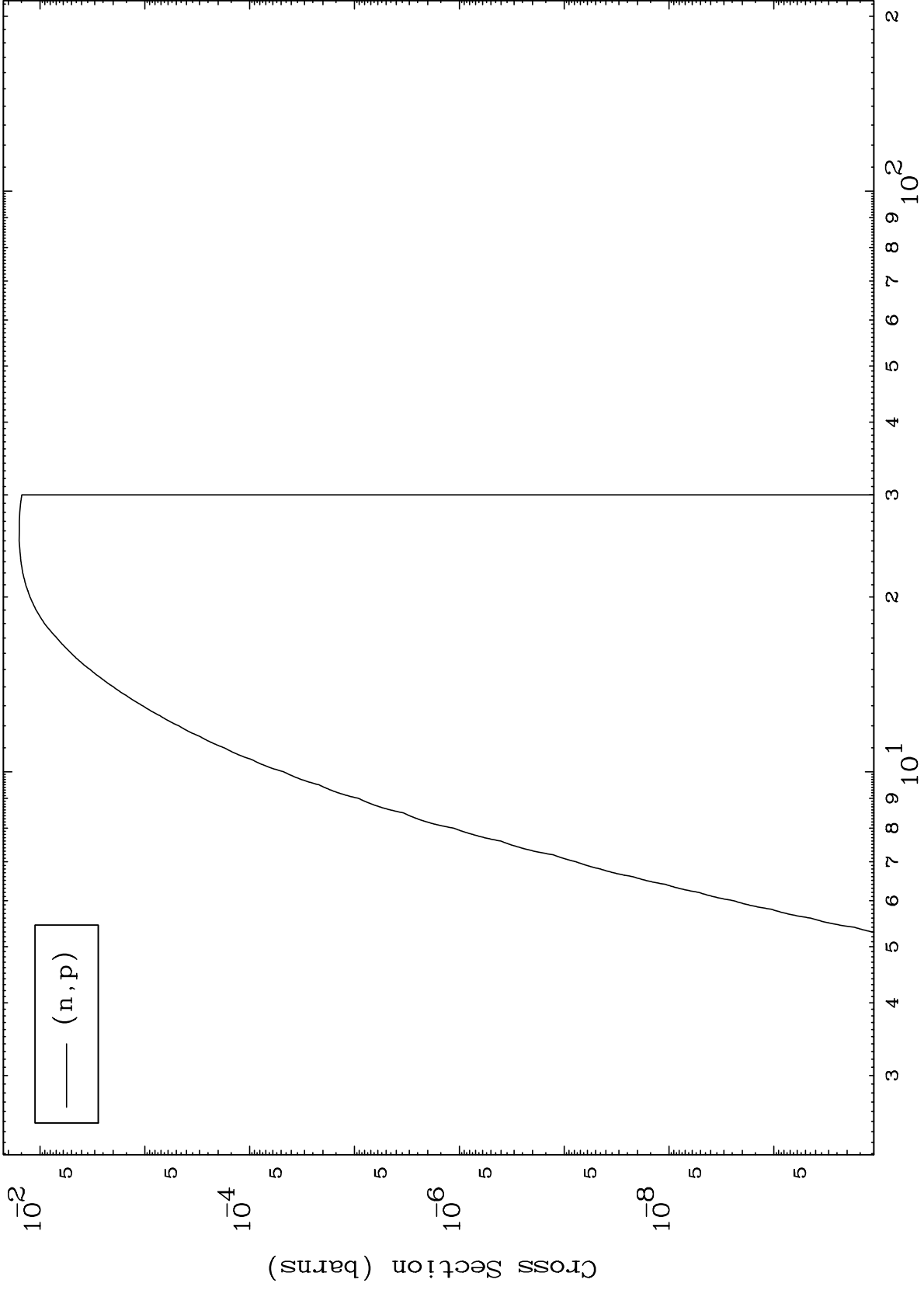
293 Kelvin Cross Sections



MAT 7243

(n,p) Levels
293 Kelvin Cross Sections

72-Hf-180



10

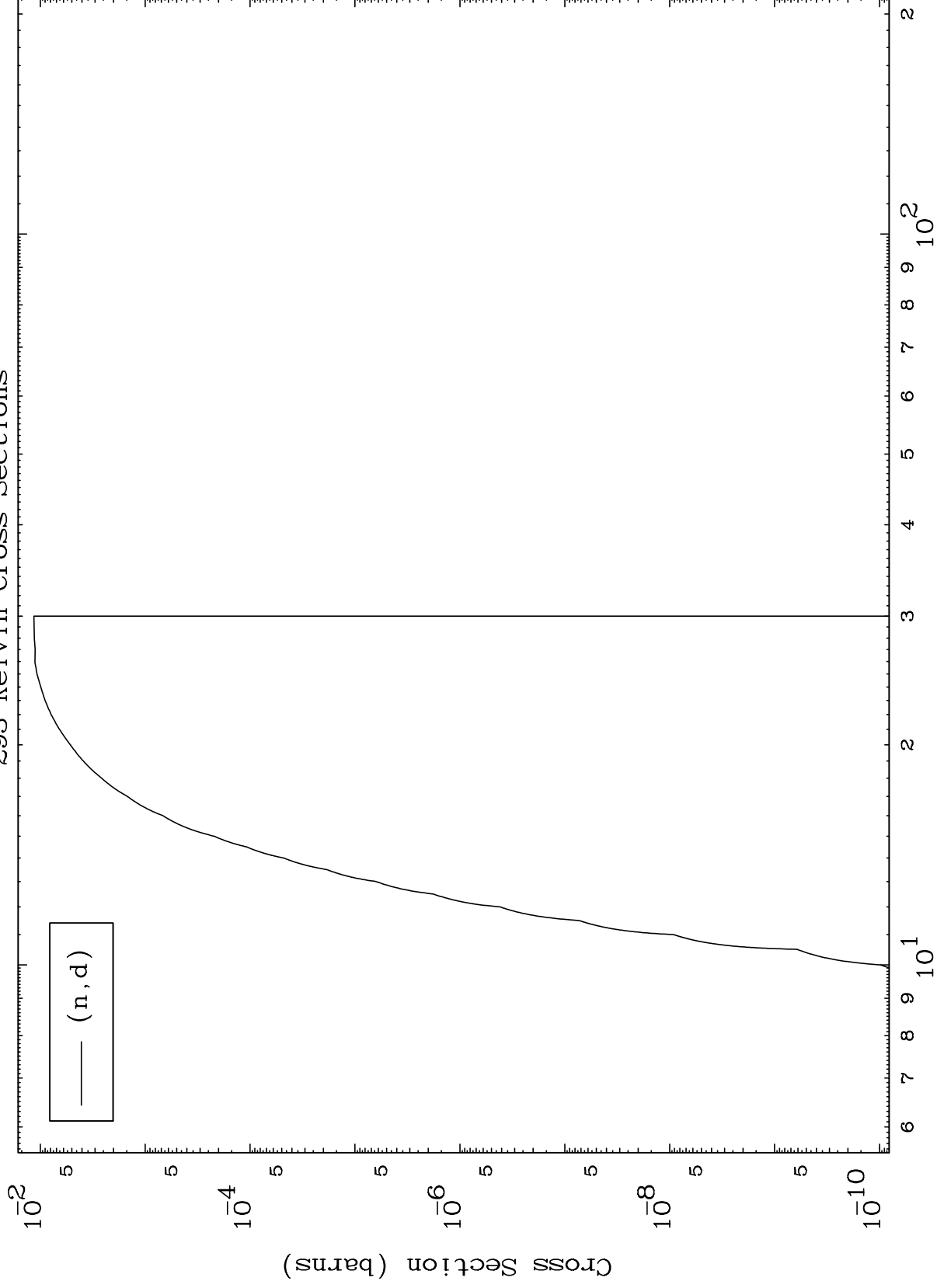
Incident Energy (MeV)

72-Hf-180

MAT 7243

(n,d) Levels
293 Kelvin Cross Sections

72-Hf-180



11

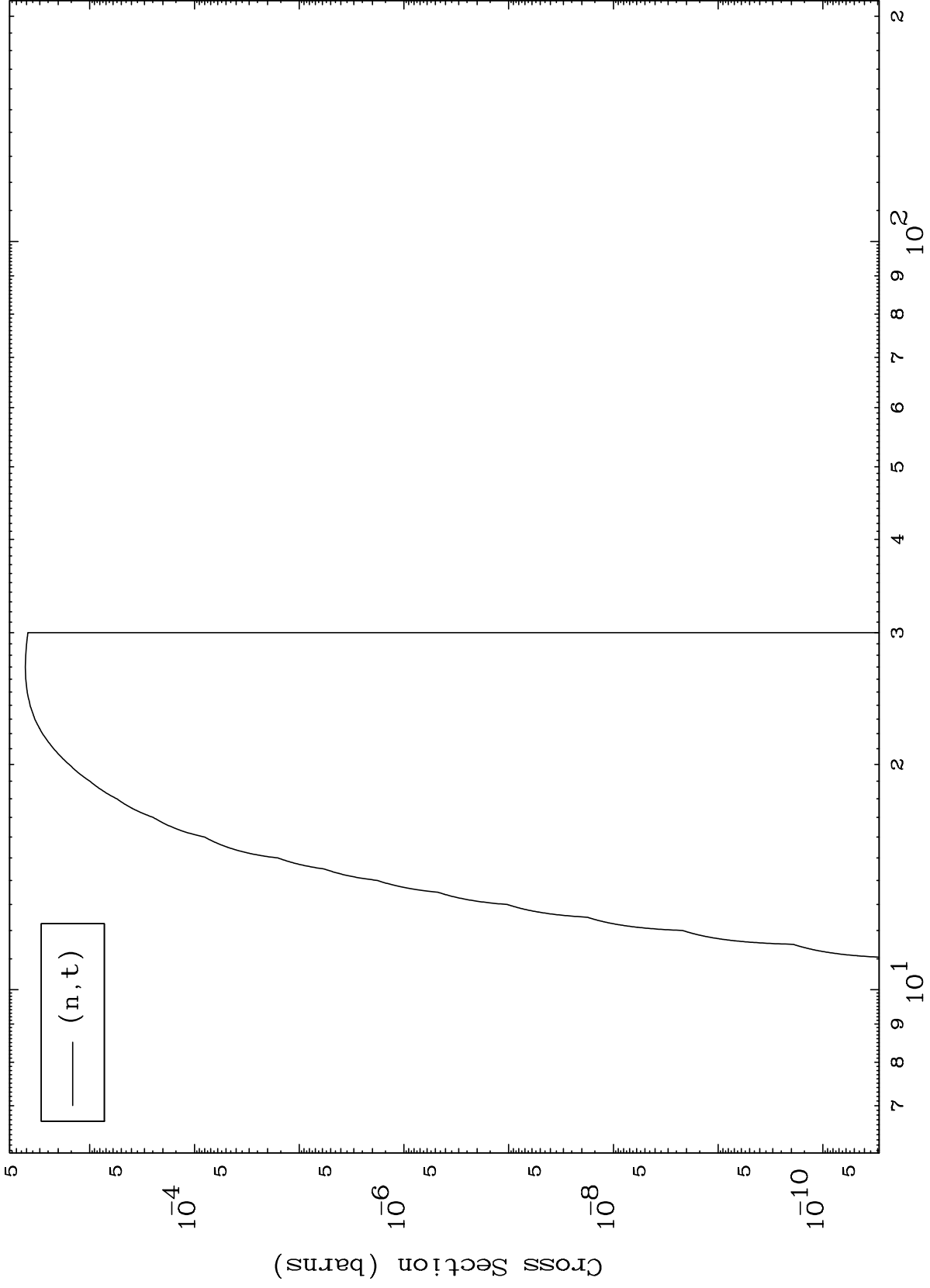
Incident Energy (MeV)

72-Hf-180

MAT 7243

(n,t) Levels
293 Kelvin Cross Sections

72-Hf-180



12

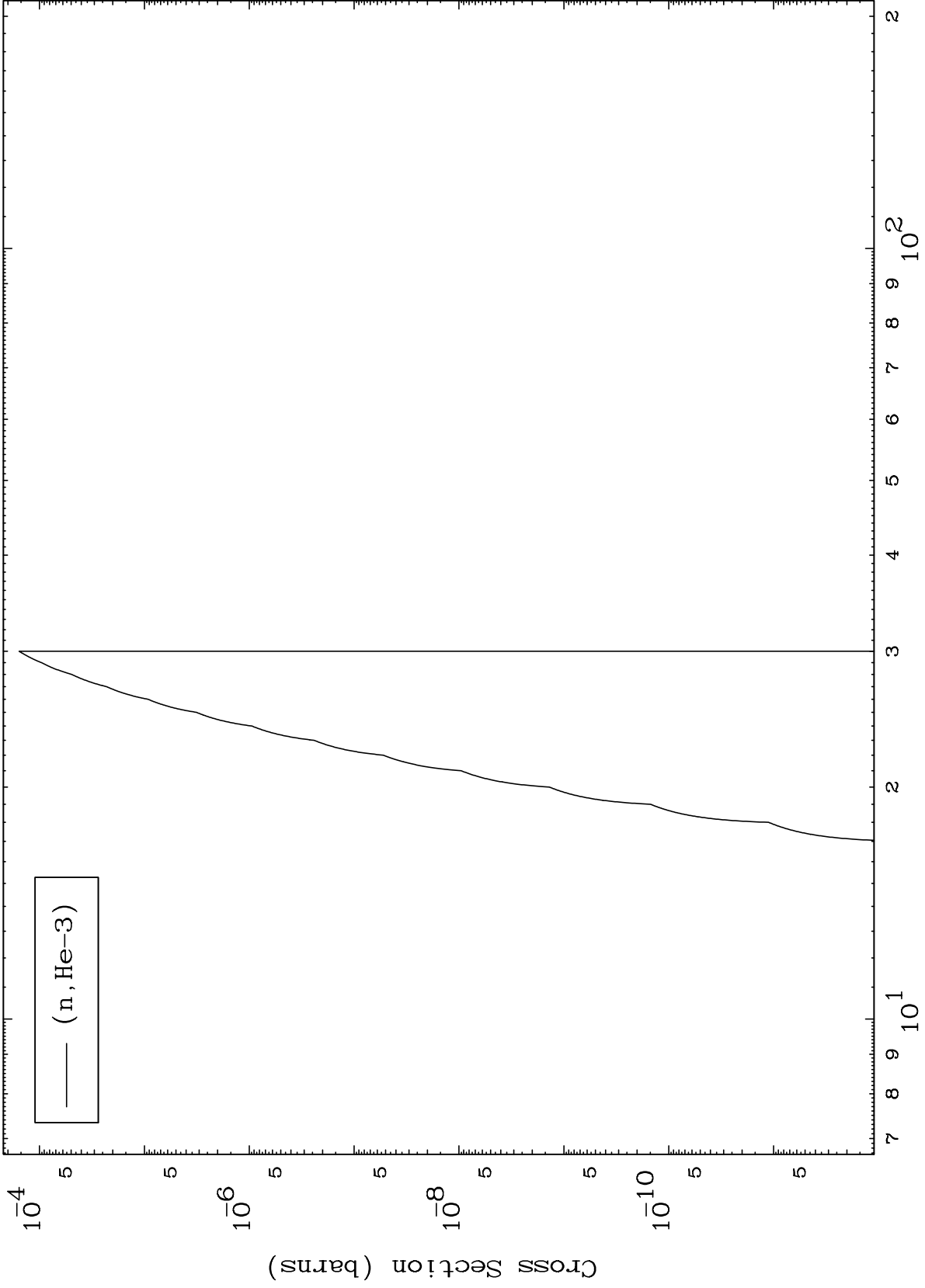
Incident Energy (MeV)

72-Hf-180

MAT 7243

(n,He3) Levels
293 Kelvin Cross Sections

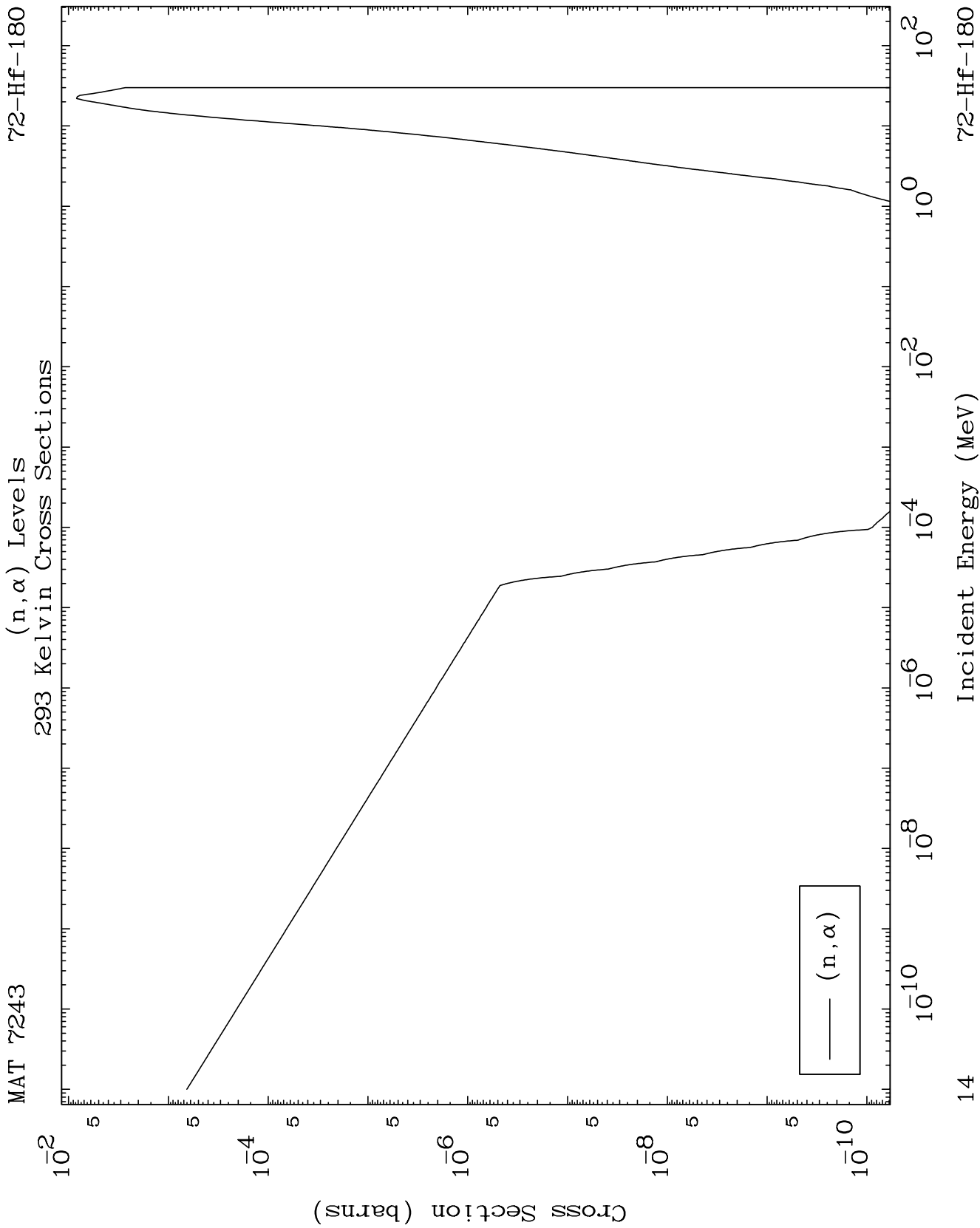
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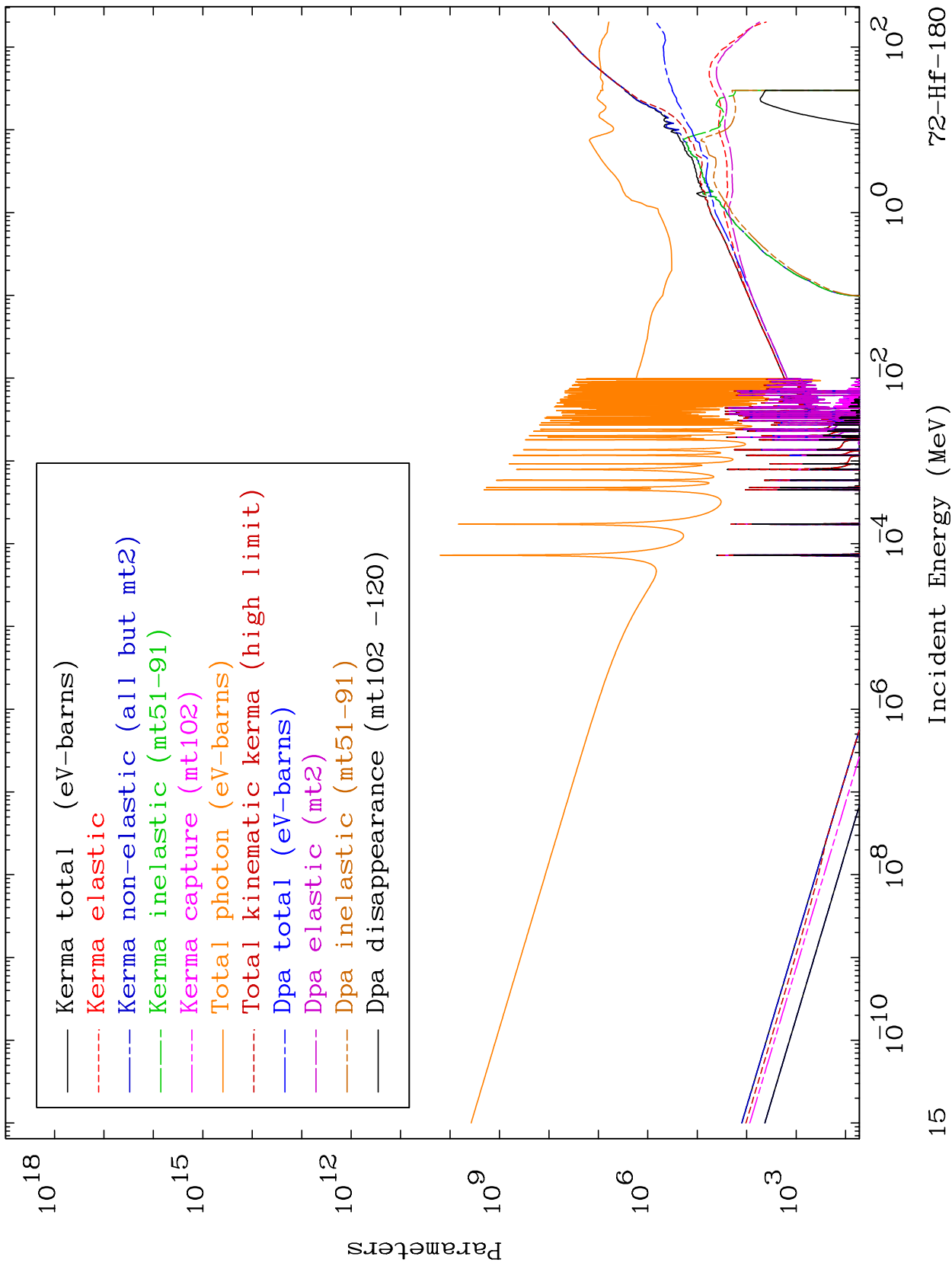


13

Incident Energy (MeV)

72-Hf-180

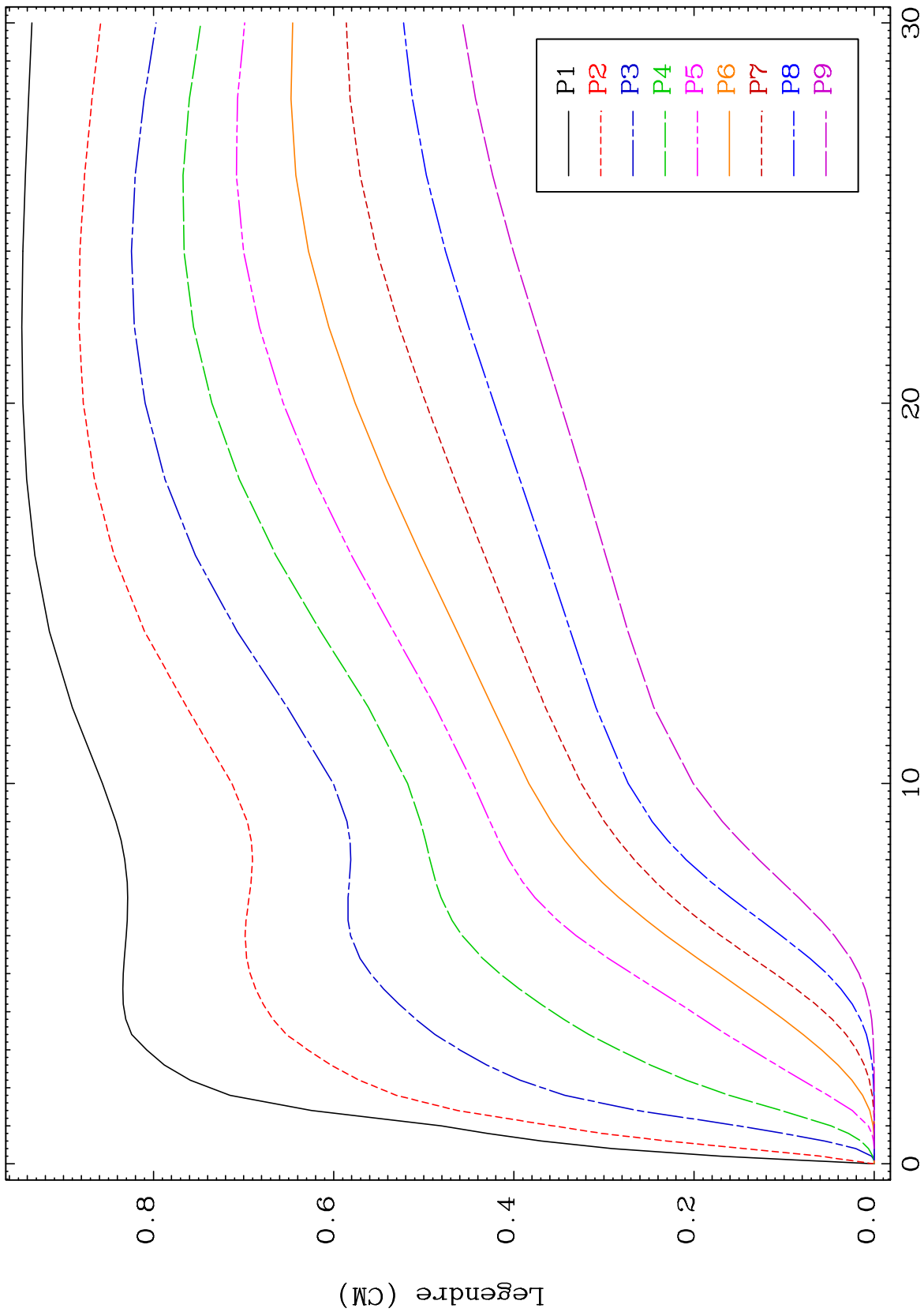




MAT 7243

Elastic Legendre Coefficients

72-Hf-180



16

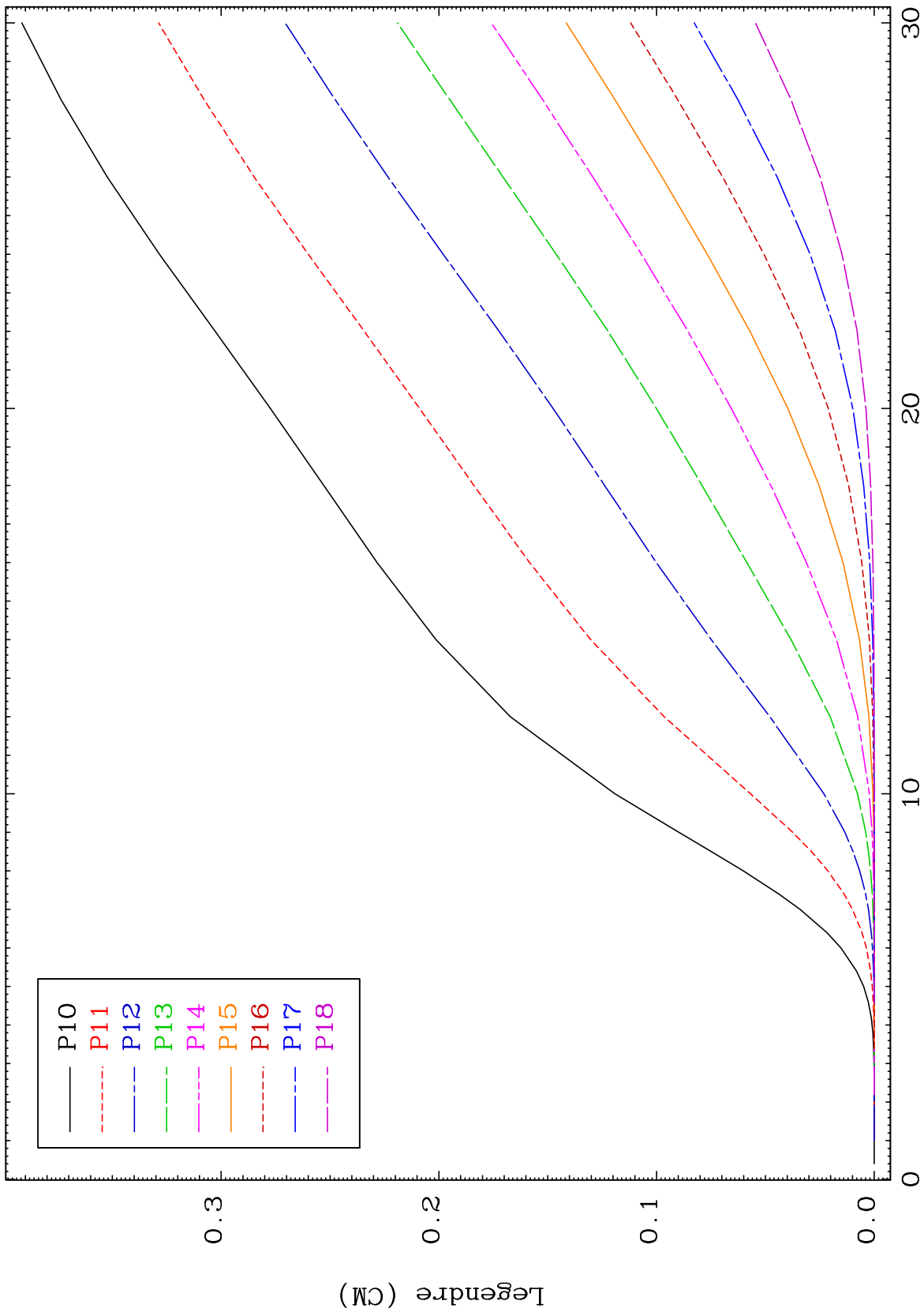
Incident Energy (MeV)

72-Hf-180

MAT 7243

Elastic Legendre Coefficients

72-Hf-180



17

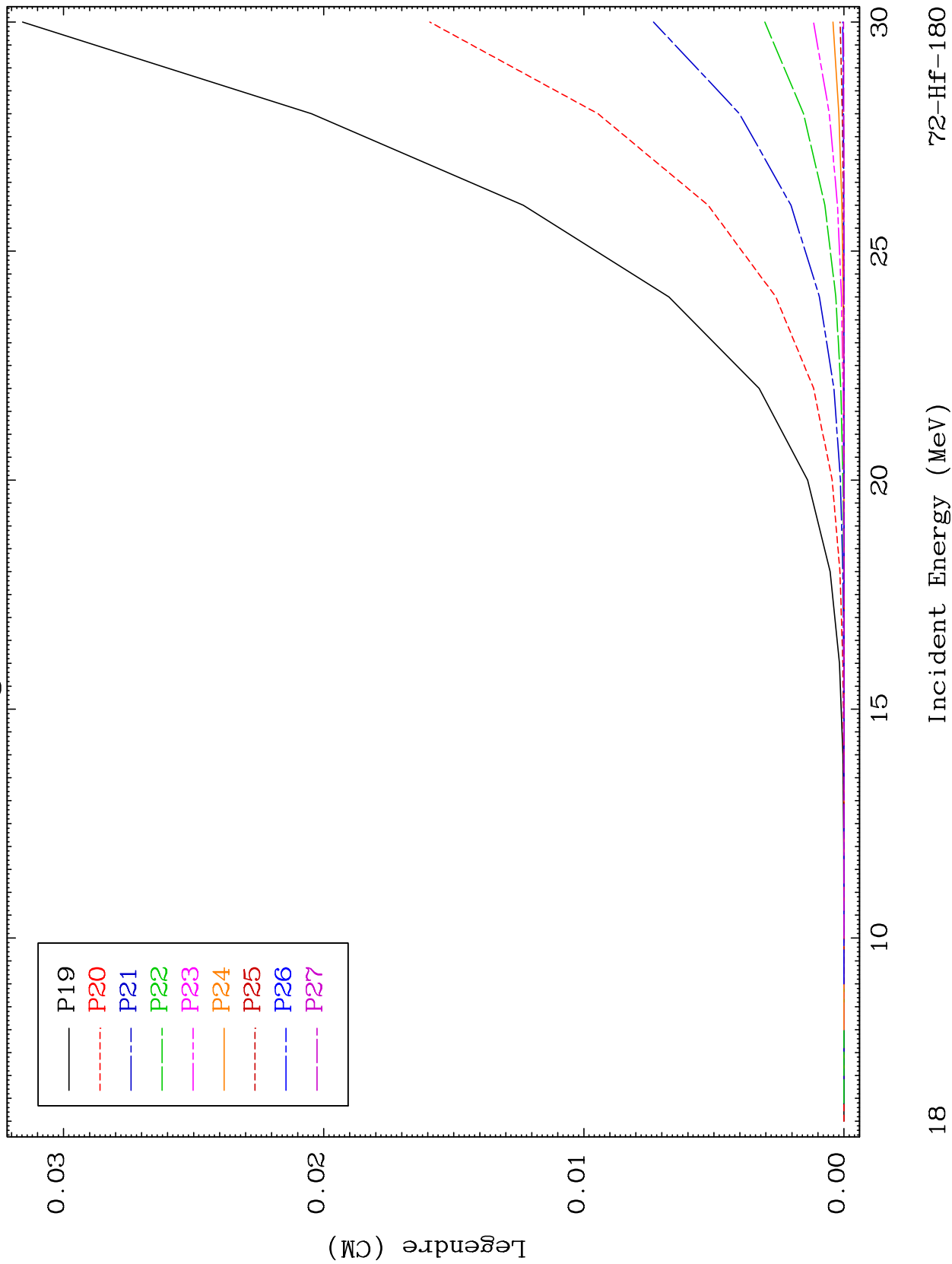
Incident Energy (MeV)

72-Hf-180

MAT 7243

Elastic Legendre Coefficients

72-Hf-180



18

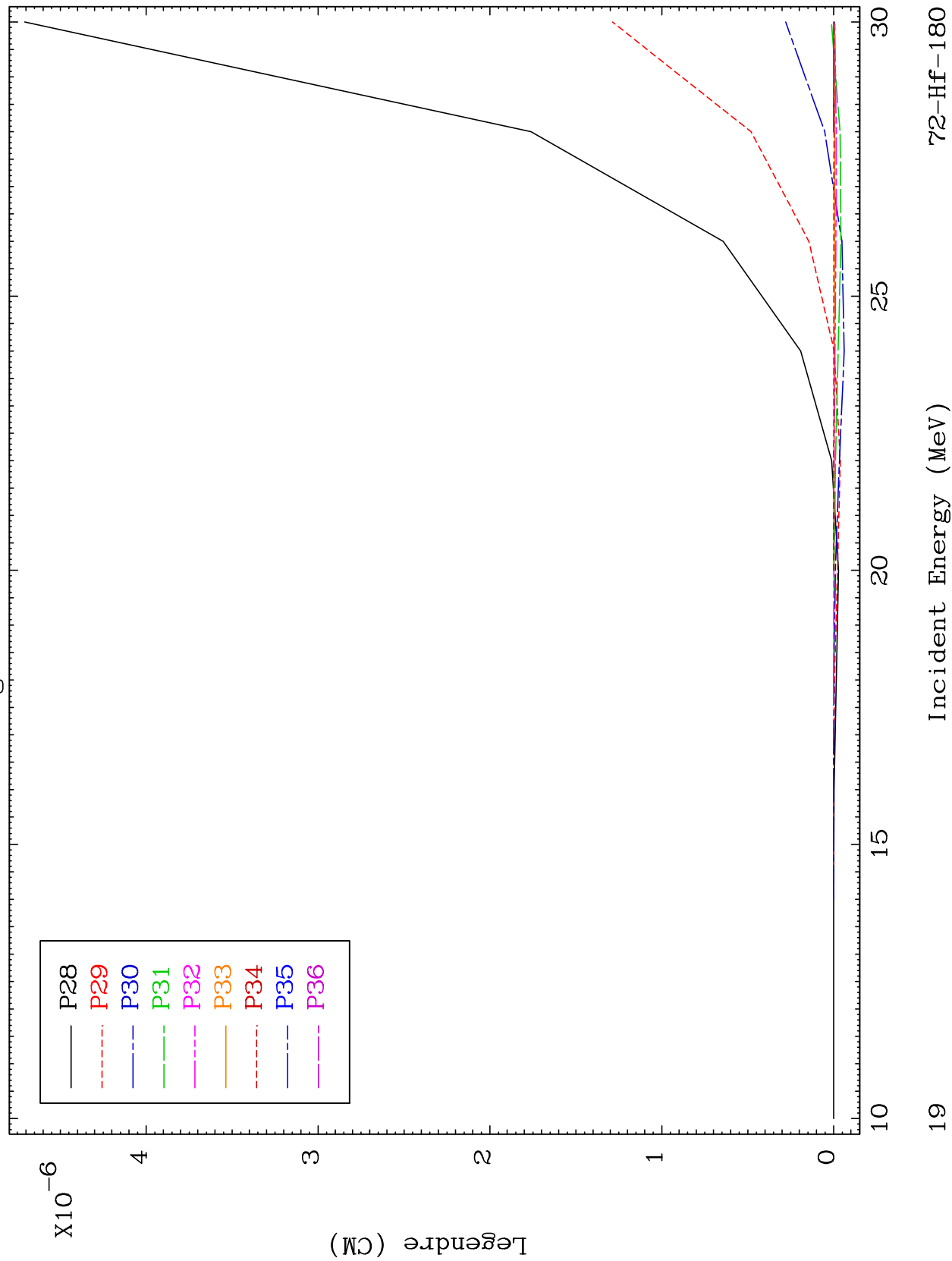
Incident Energy (MeV)

72-Hf-180

MAT 7243

Elastic Legendre Coefficients

72-Hf-180



19

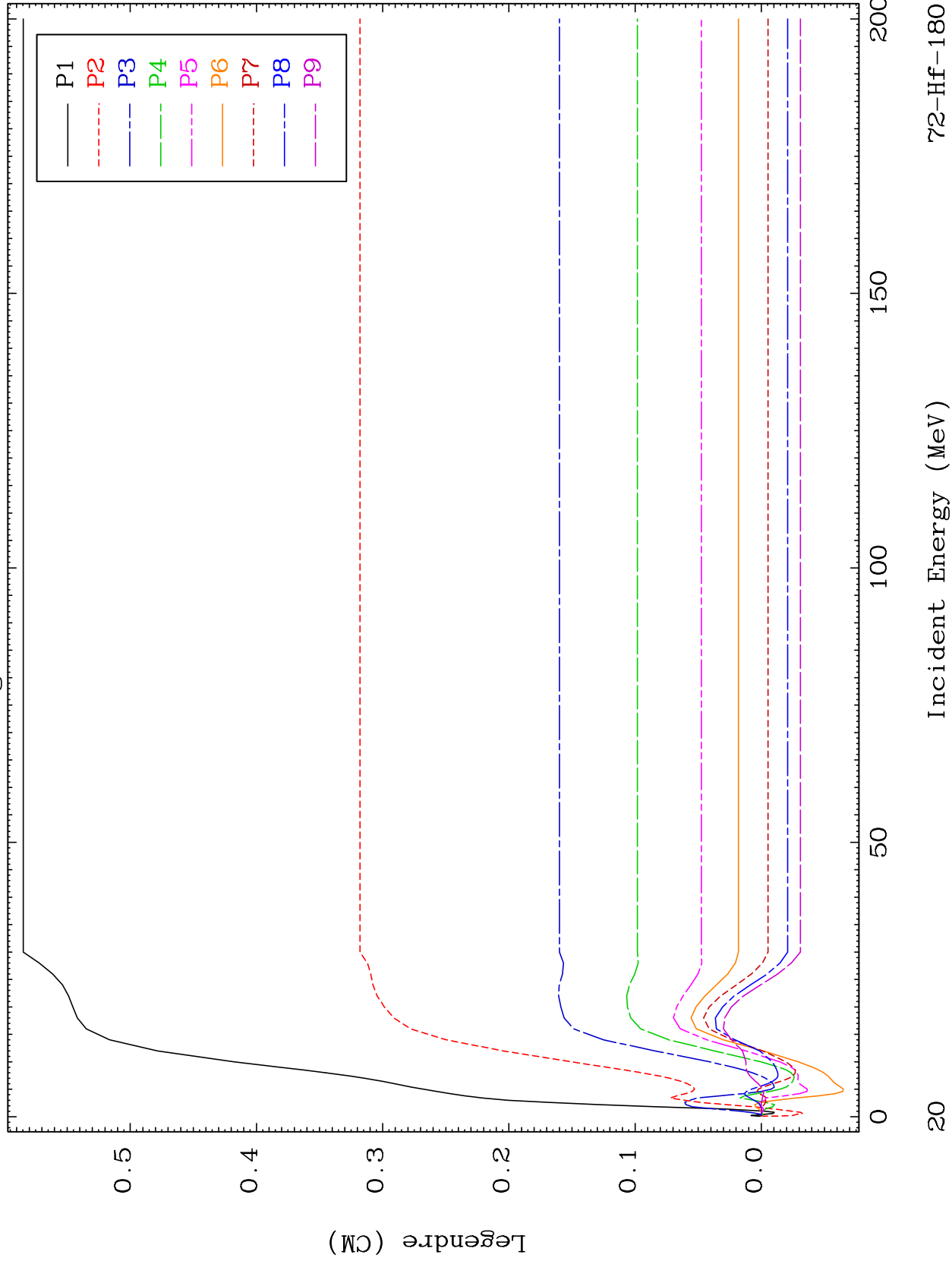
Incident Energy (MeV)

72-Hf-180

MAT 7243

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

72-Hf-180



72-Hf-180

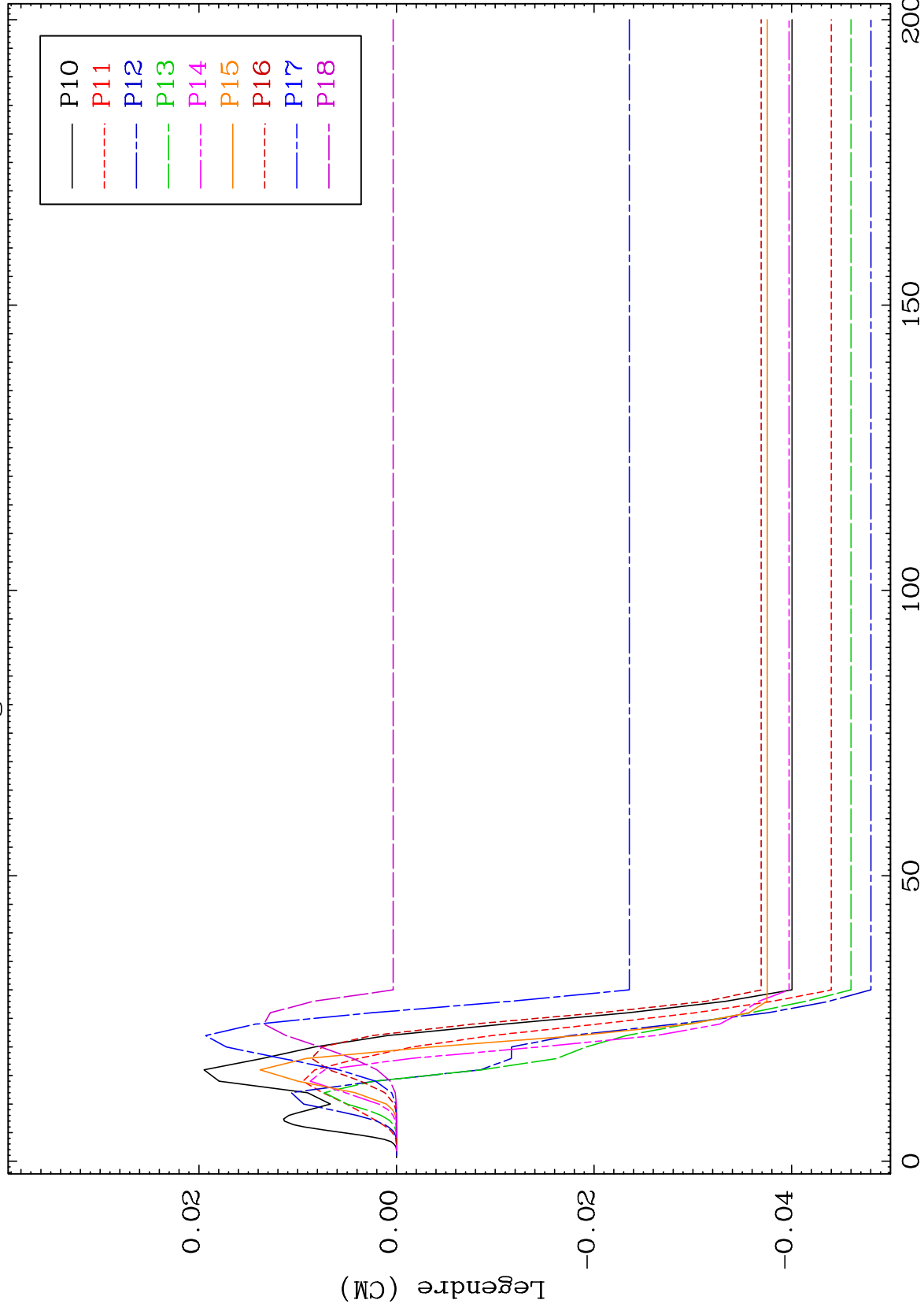
Incident Energy (MeV)

20

MAT 7243

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

72-Hf-180



21

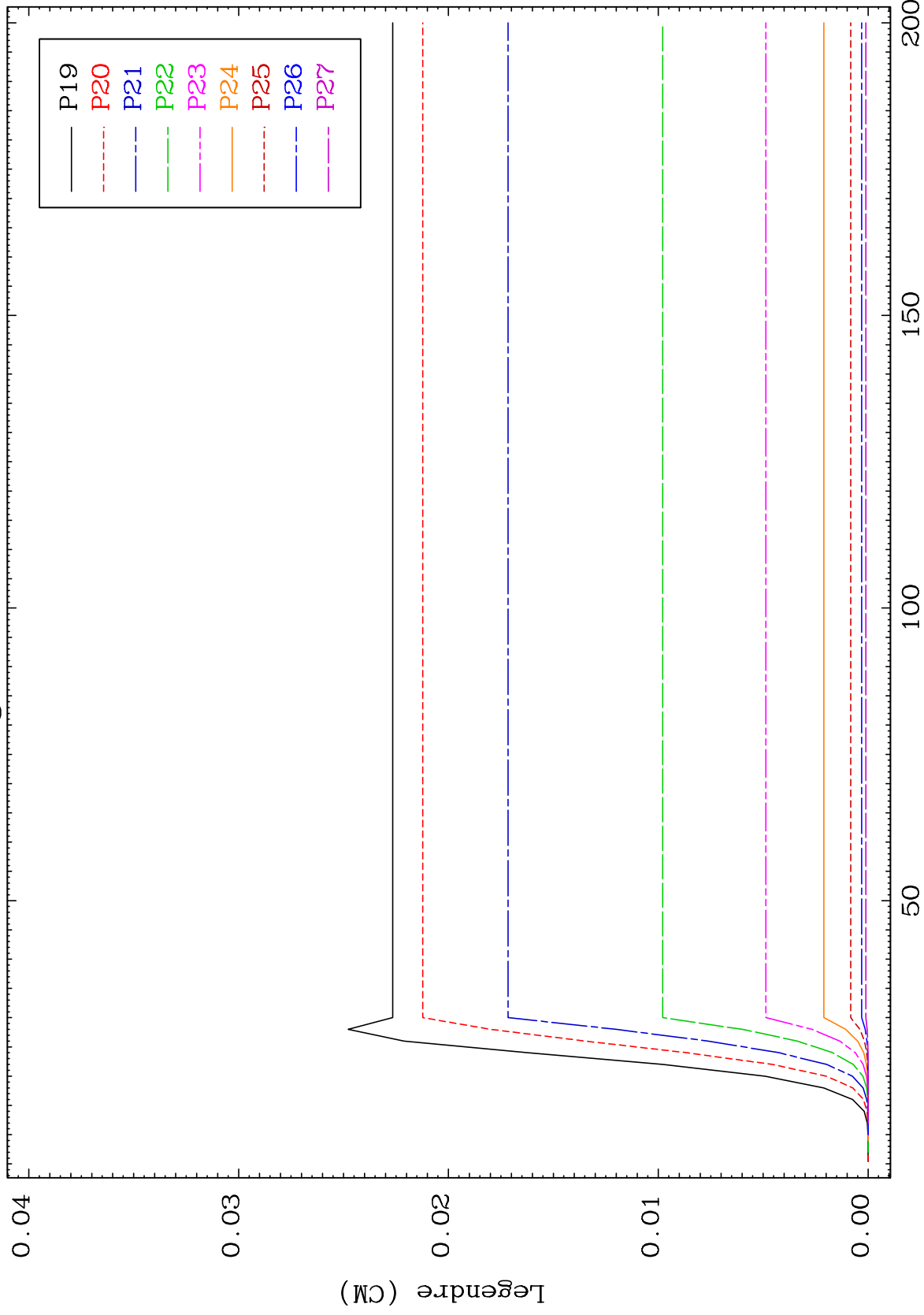
Incident Energy (MeV)

72-Hf-180

MAT 7243

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

72-Hf-180



22

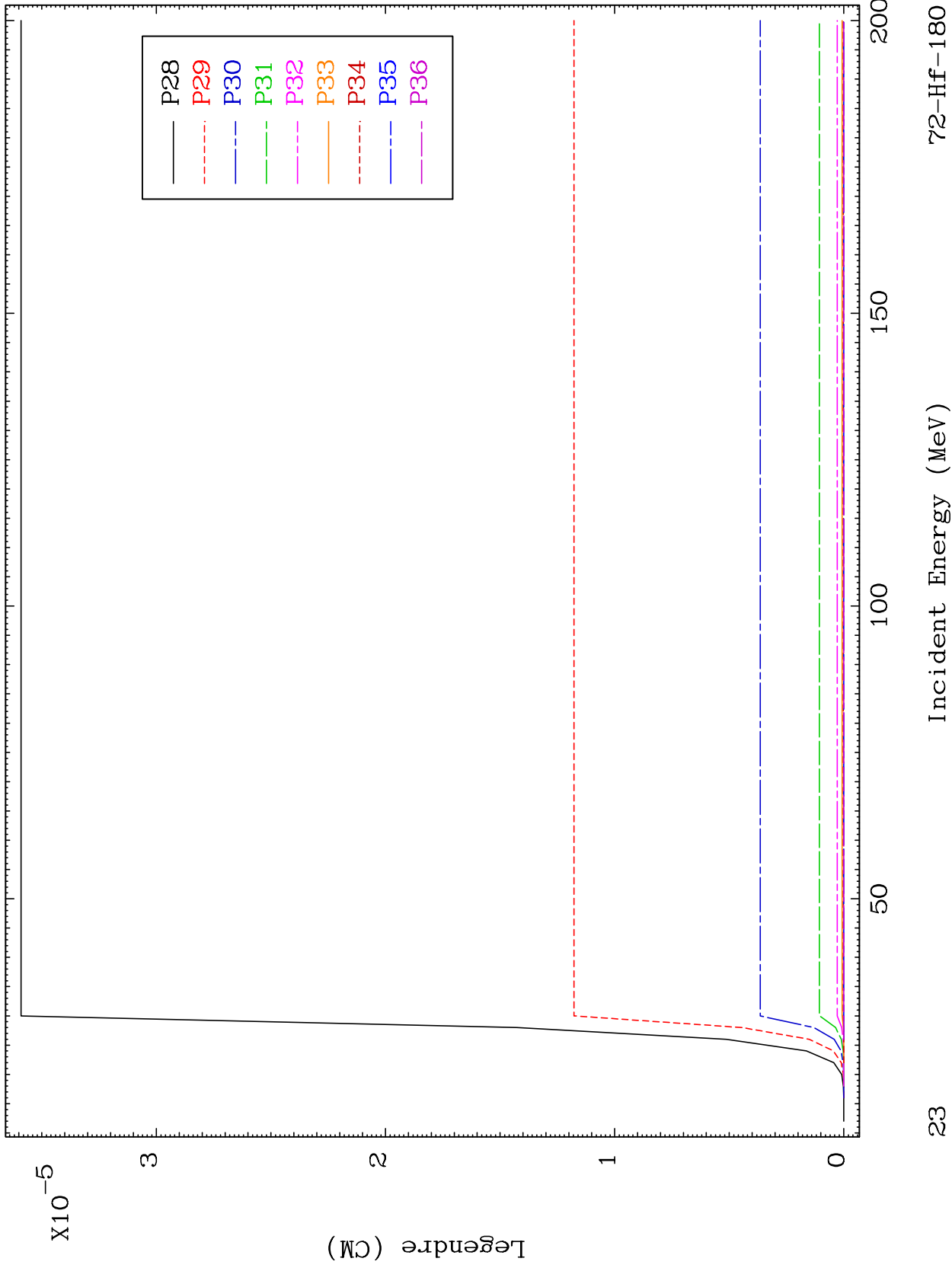
Incident Energy (MeV)

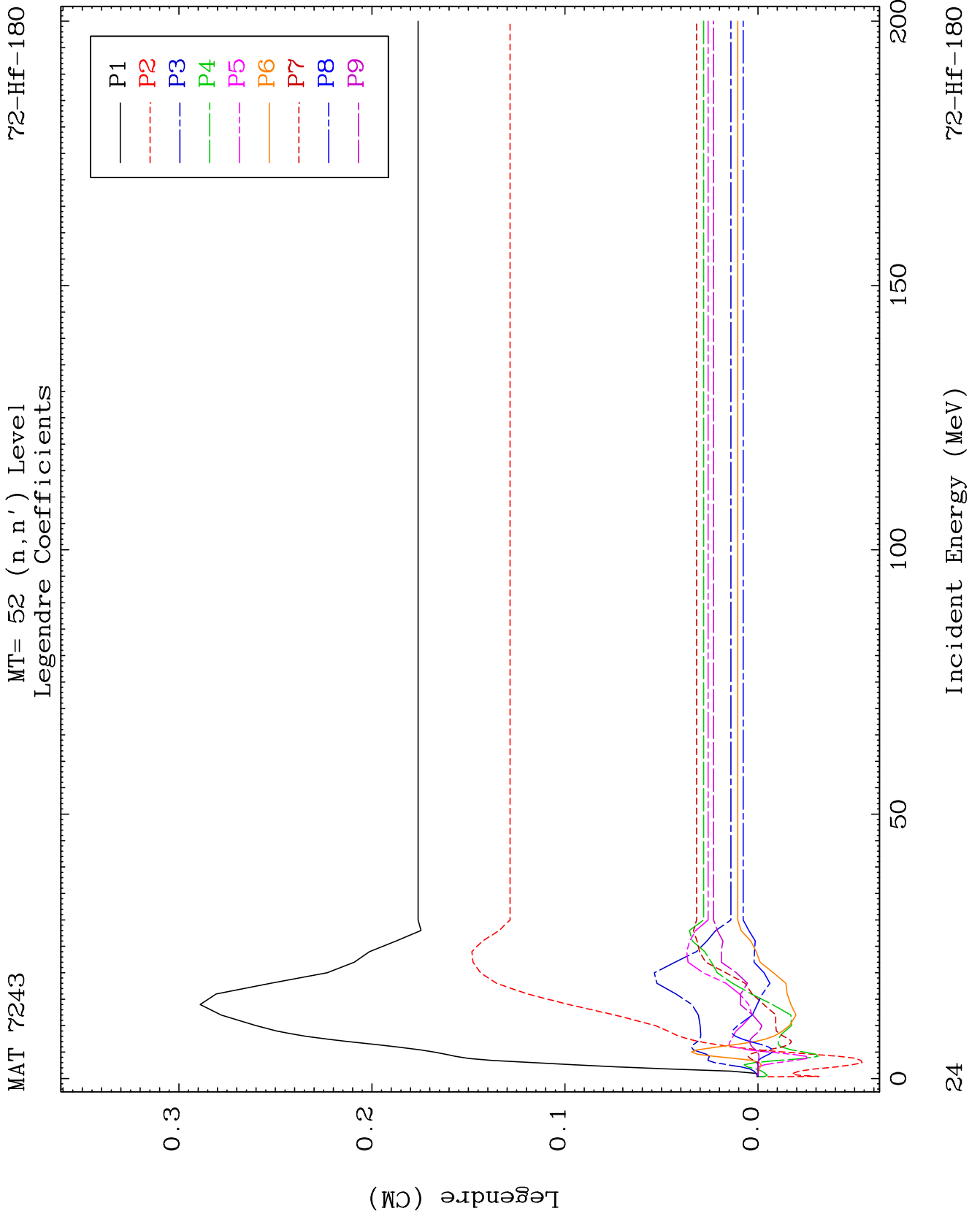
72-Hf-180

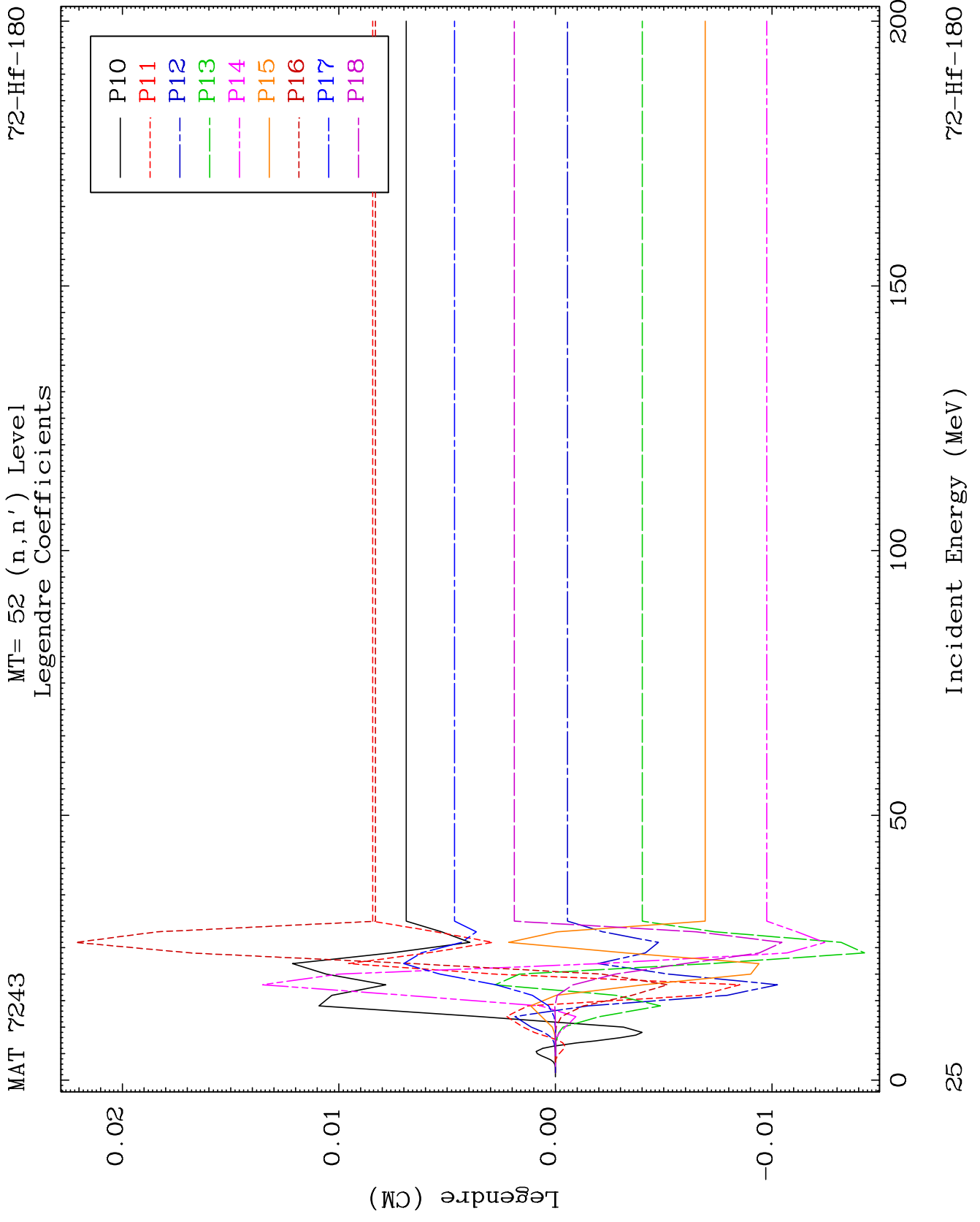
MAT 7243

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

72-Hf-180



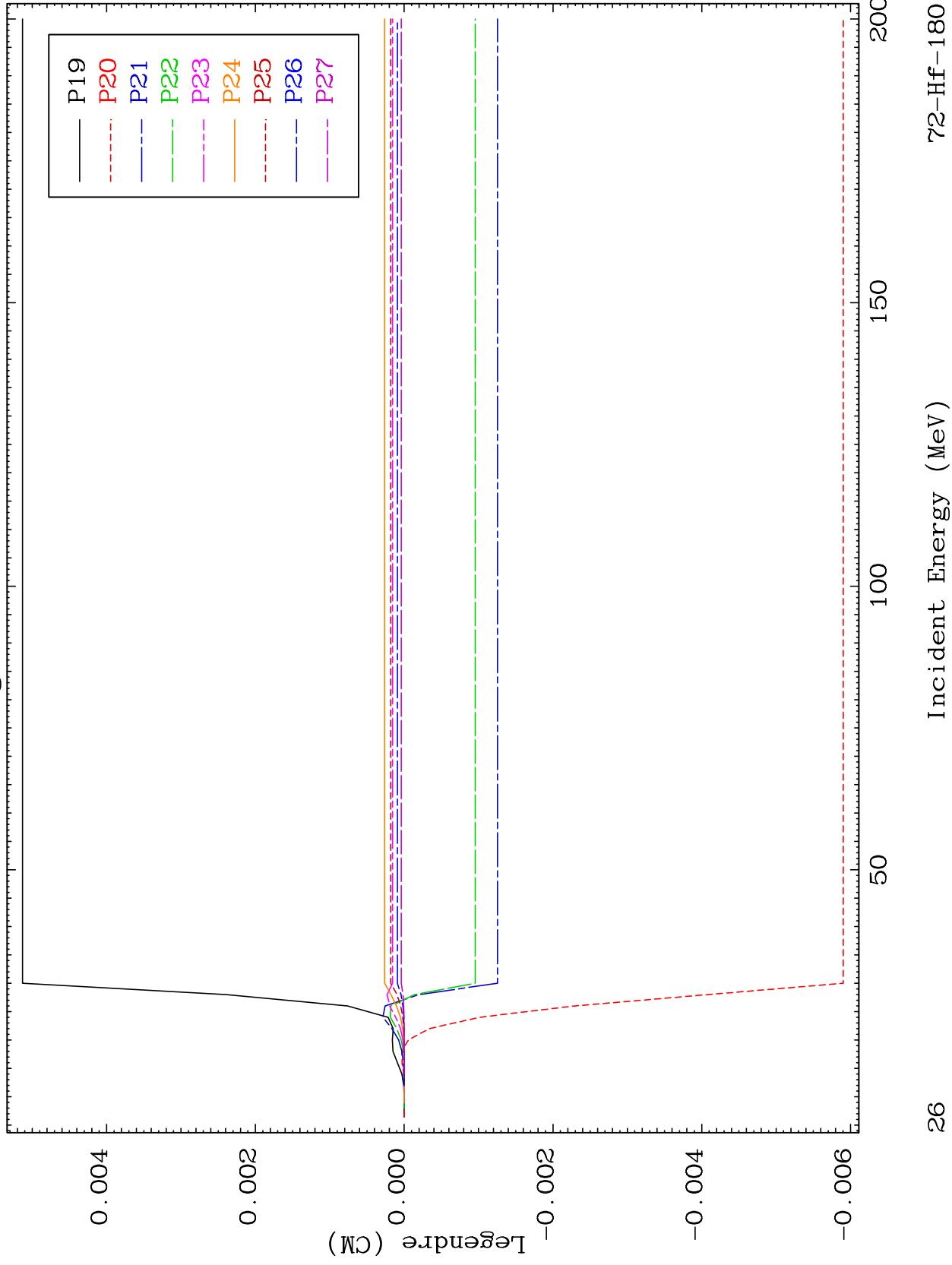




MAT 7243

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

72-Hf-180



26

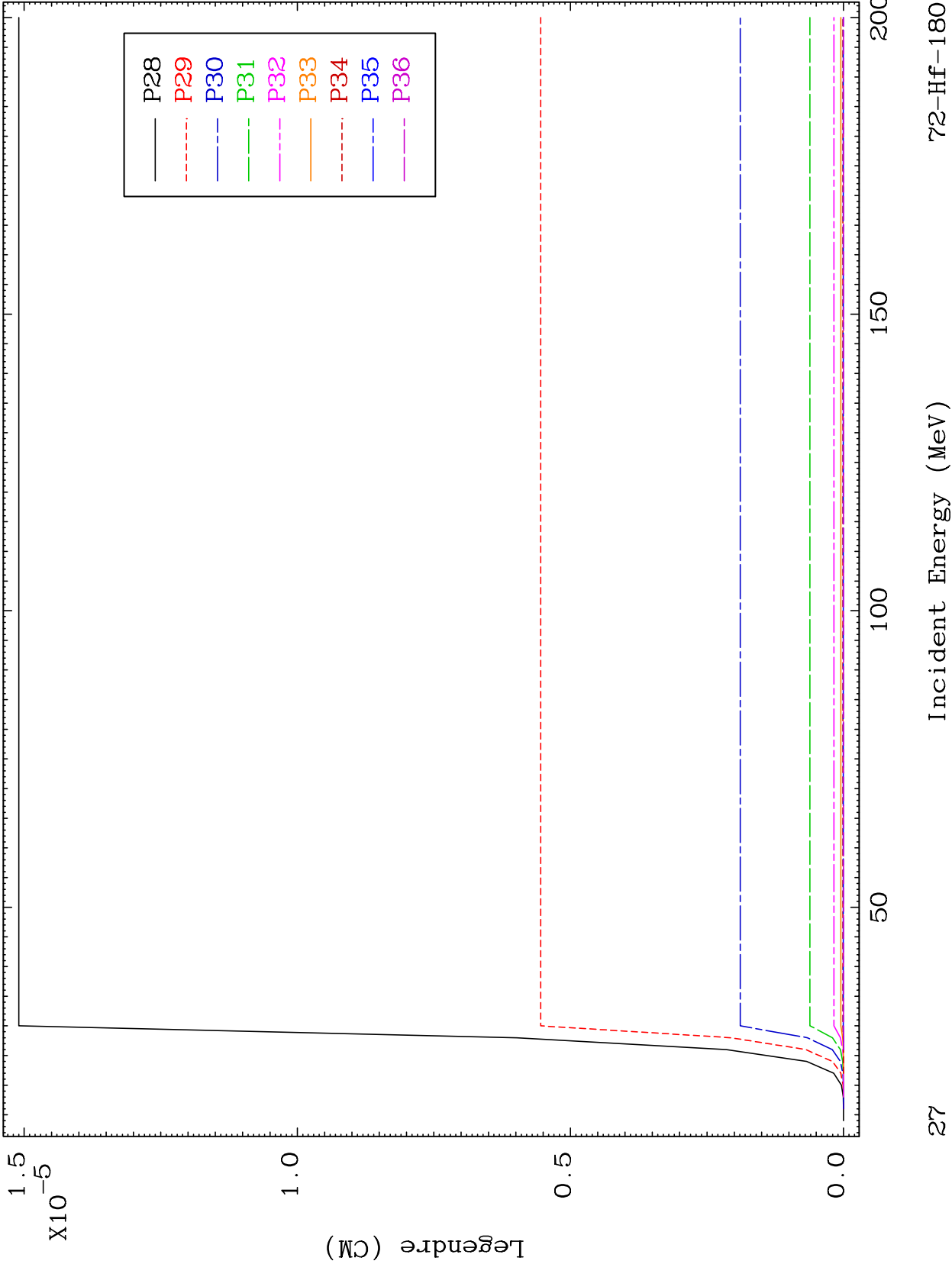
Incident Energy (MeV)

72-Hf-180

MAT 7243

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

72-Hf-180



27

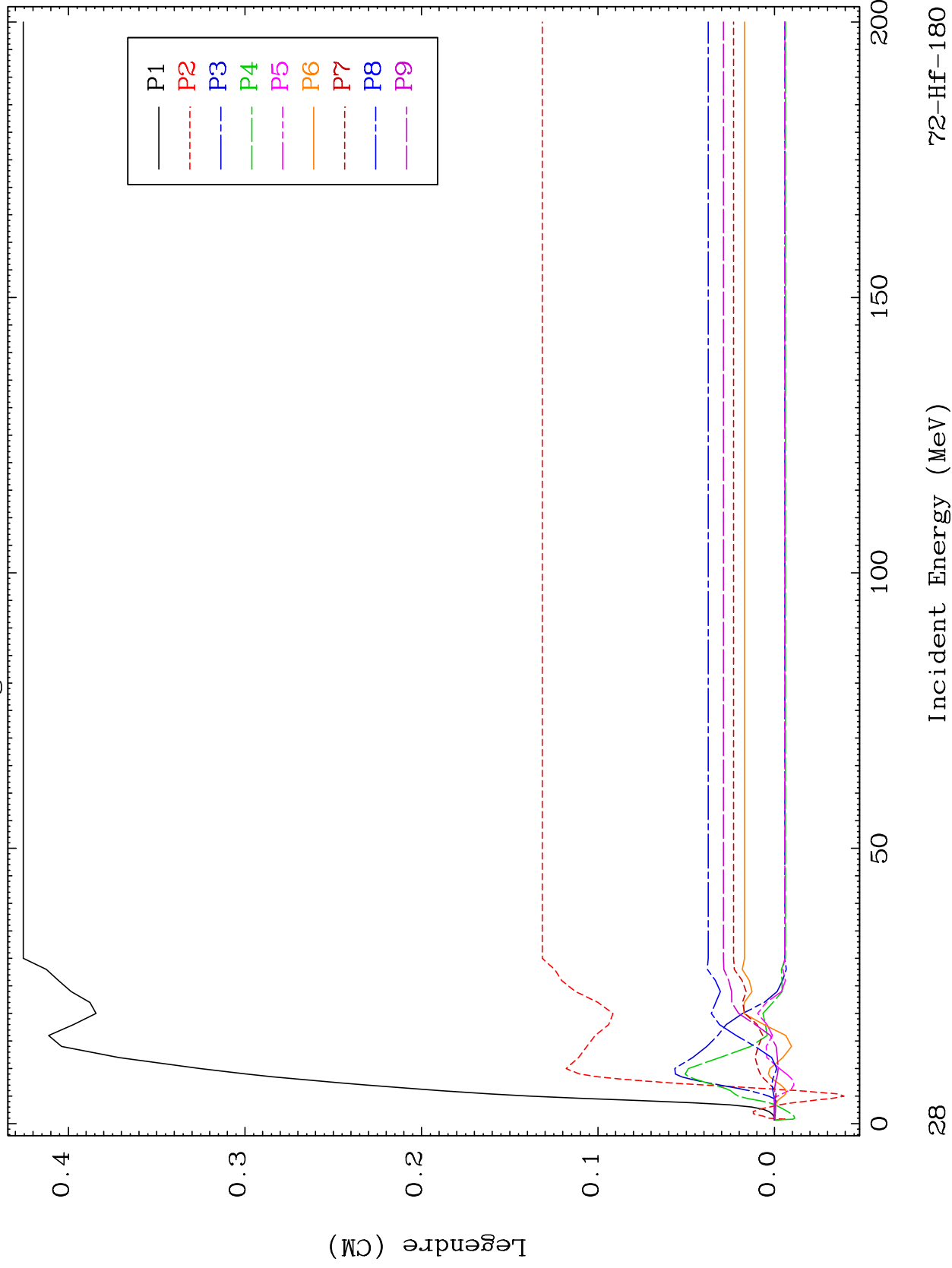
Incident Energy (MeV)

72-Hf-180

MAT 7243

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

72-Hf-180



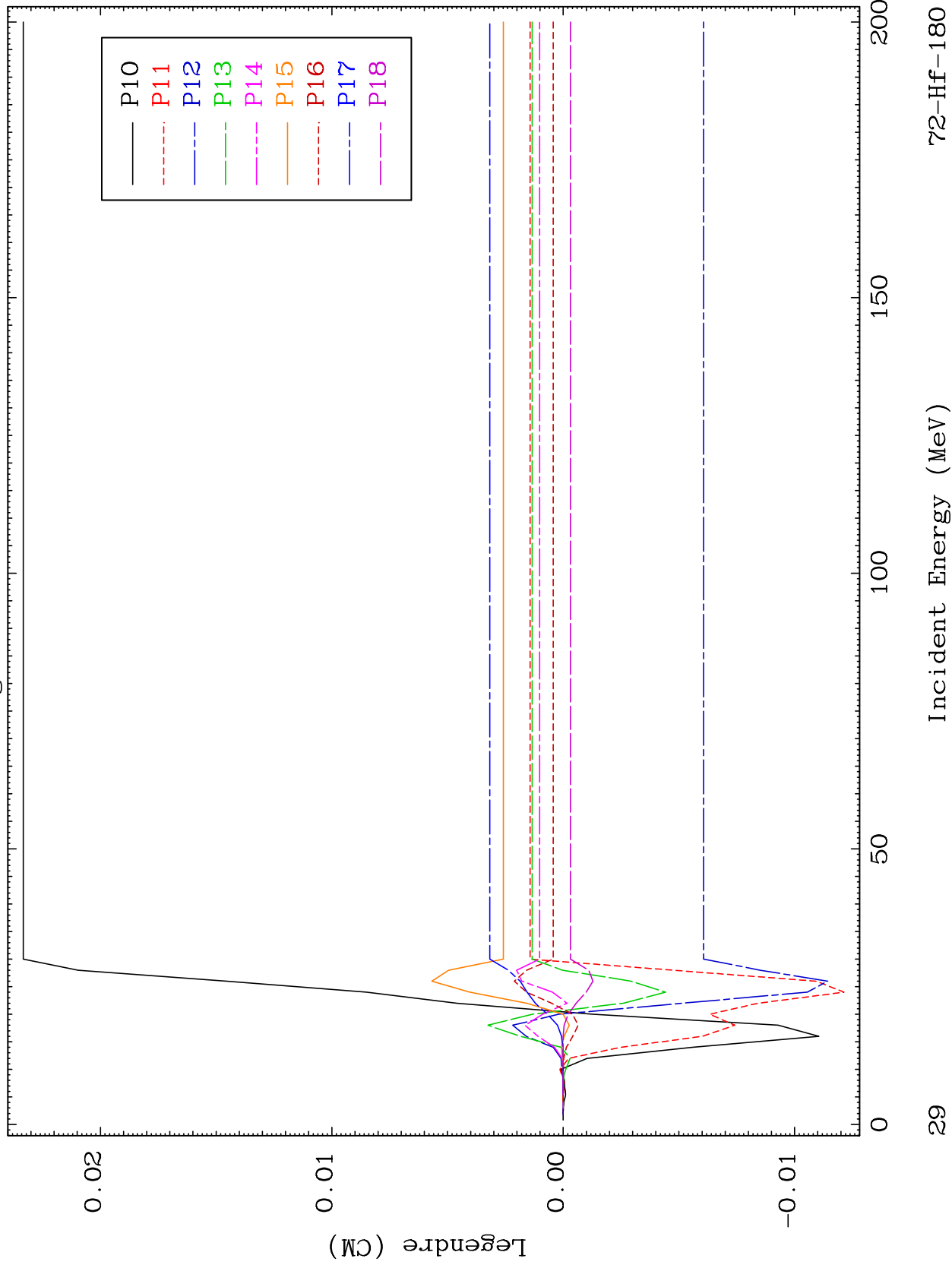
28

72-Hf-180

MAT 7243

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

72-Hf-180



29

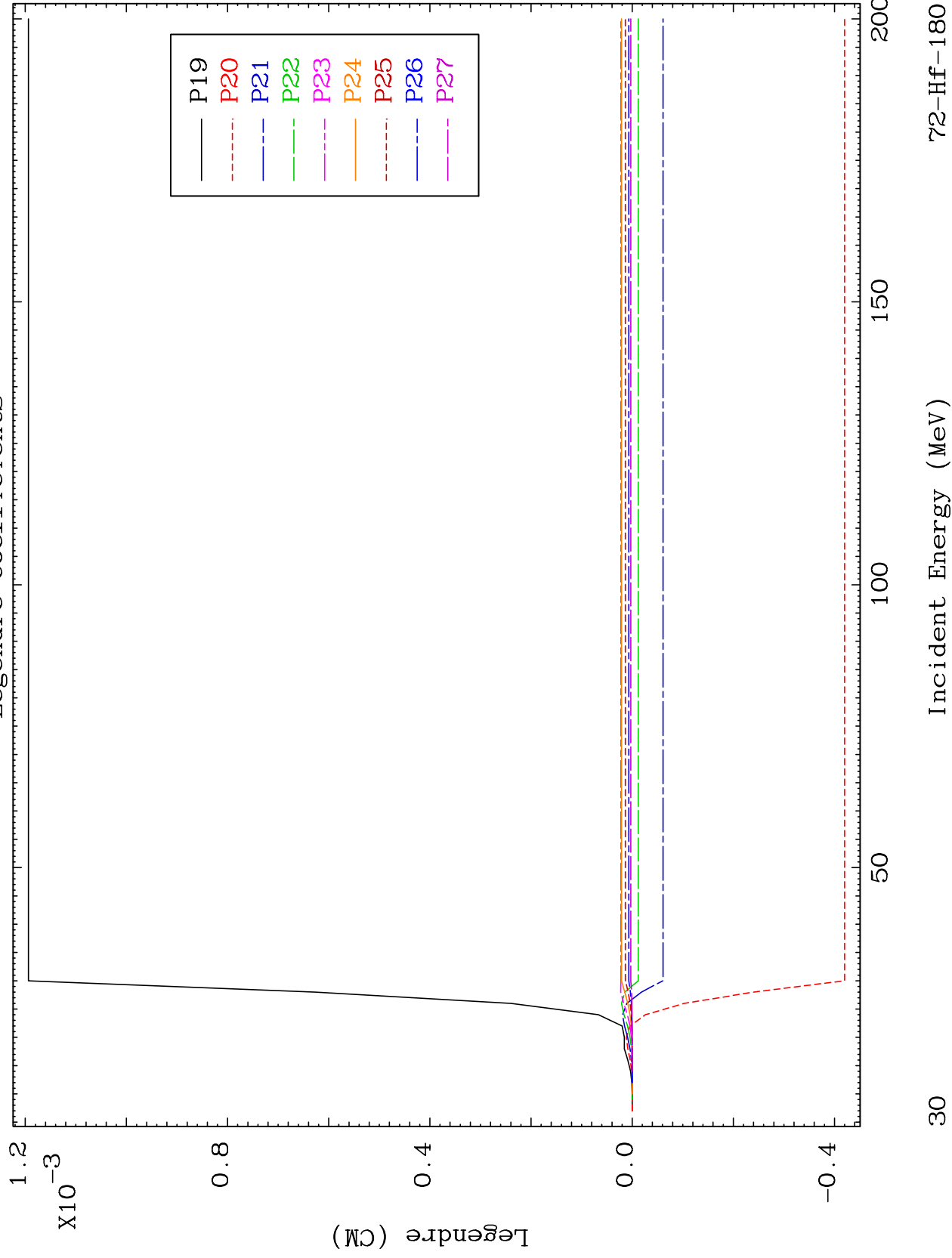
Incident Energy (MeV)

72-Hf-180

MAT 7243

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

72-Hf-180



30

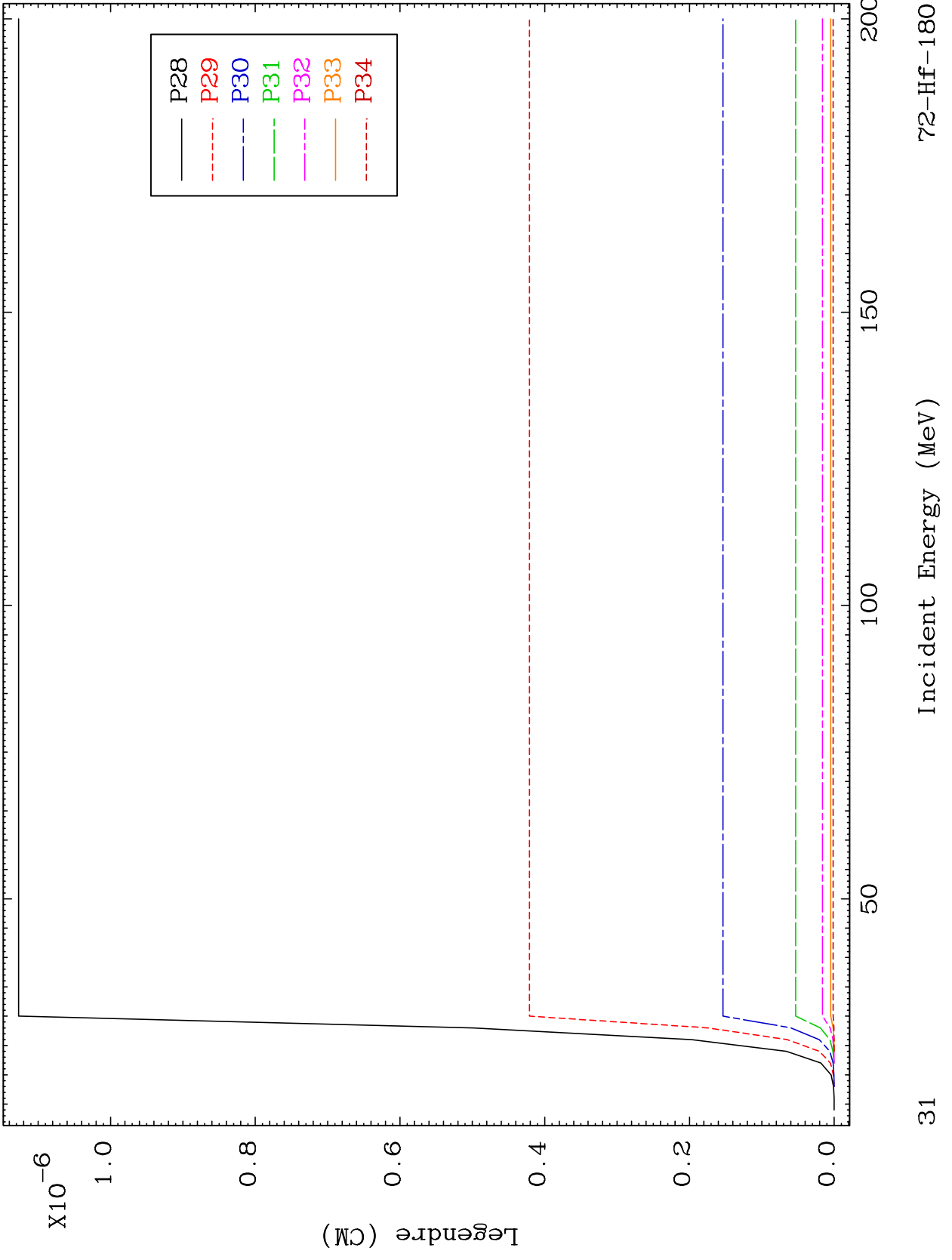
Incident Energy (MeV)

72-Hf-180

MAT 7243

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

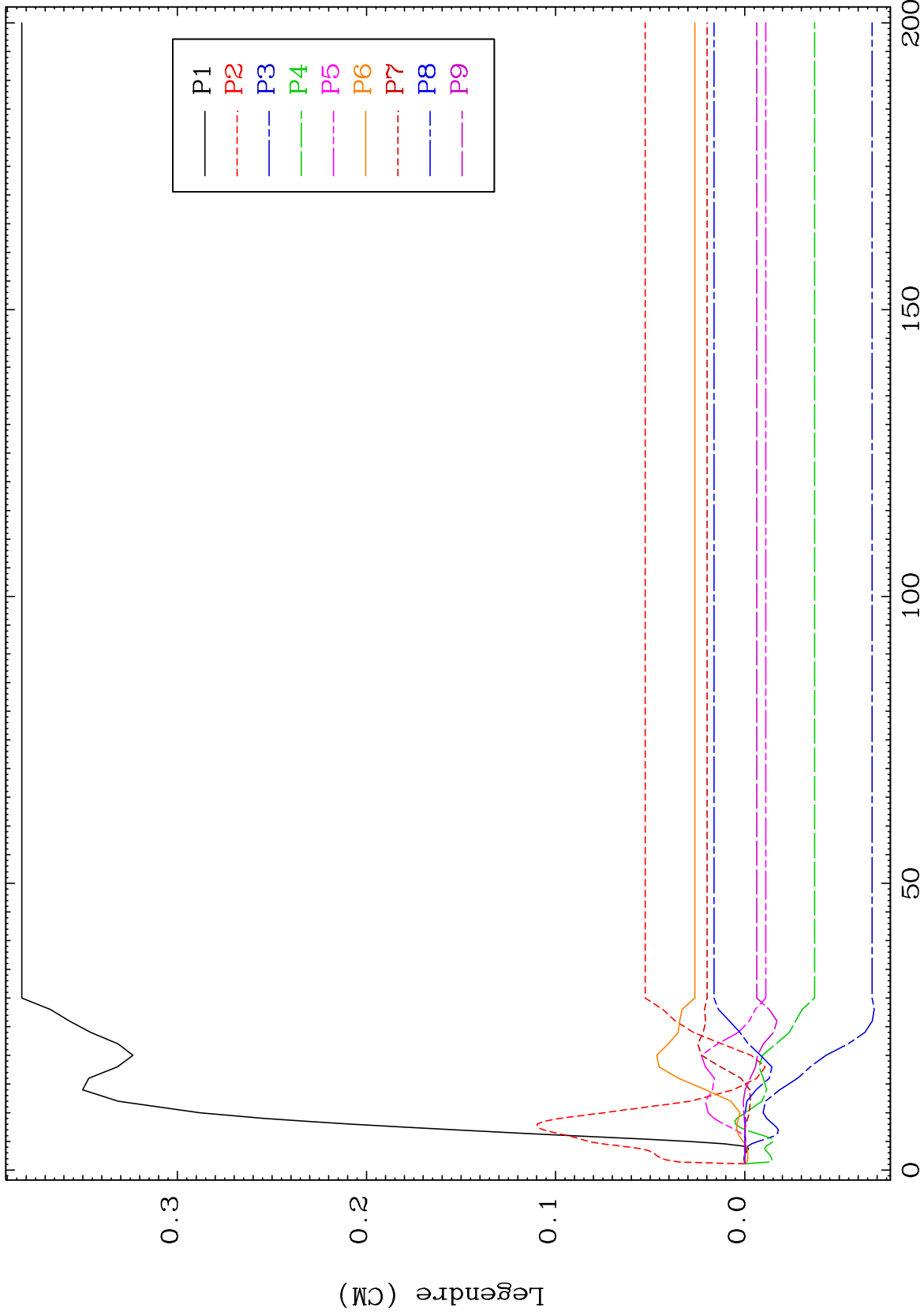
72-Hf-180



MAT 7243

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

72-Hf-180



32

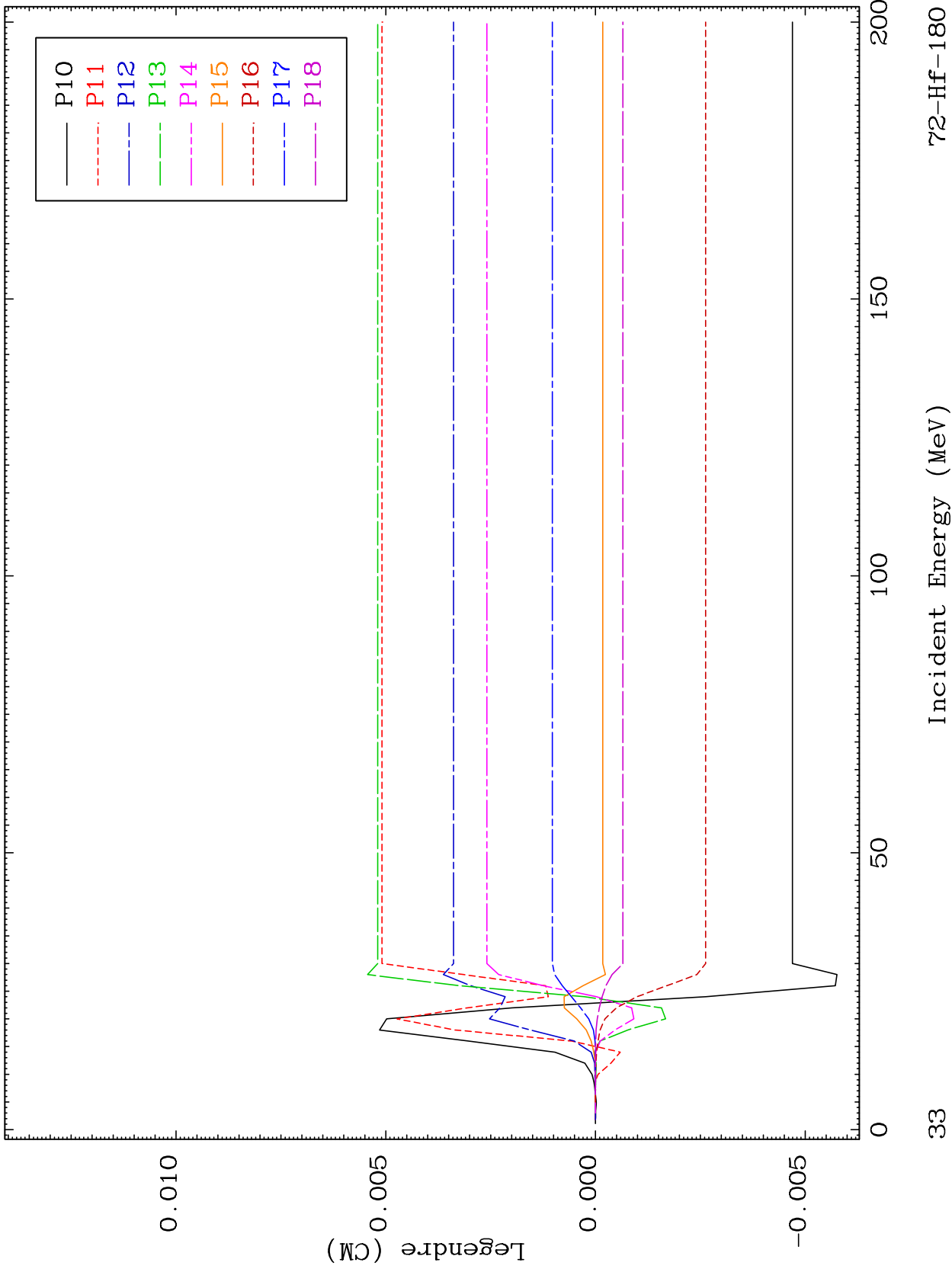
Incident Energy (MeV)

72-Hf-180

MAT 7243

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

72-Hf-180



33

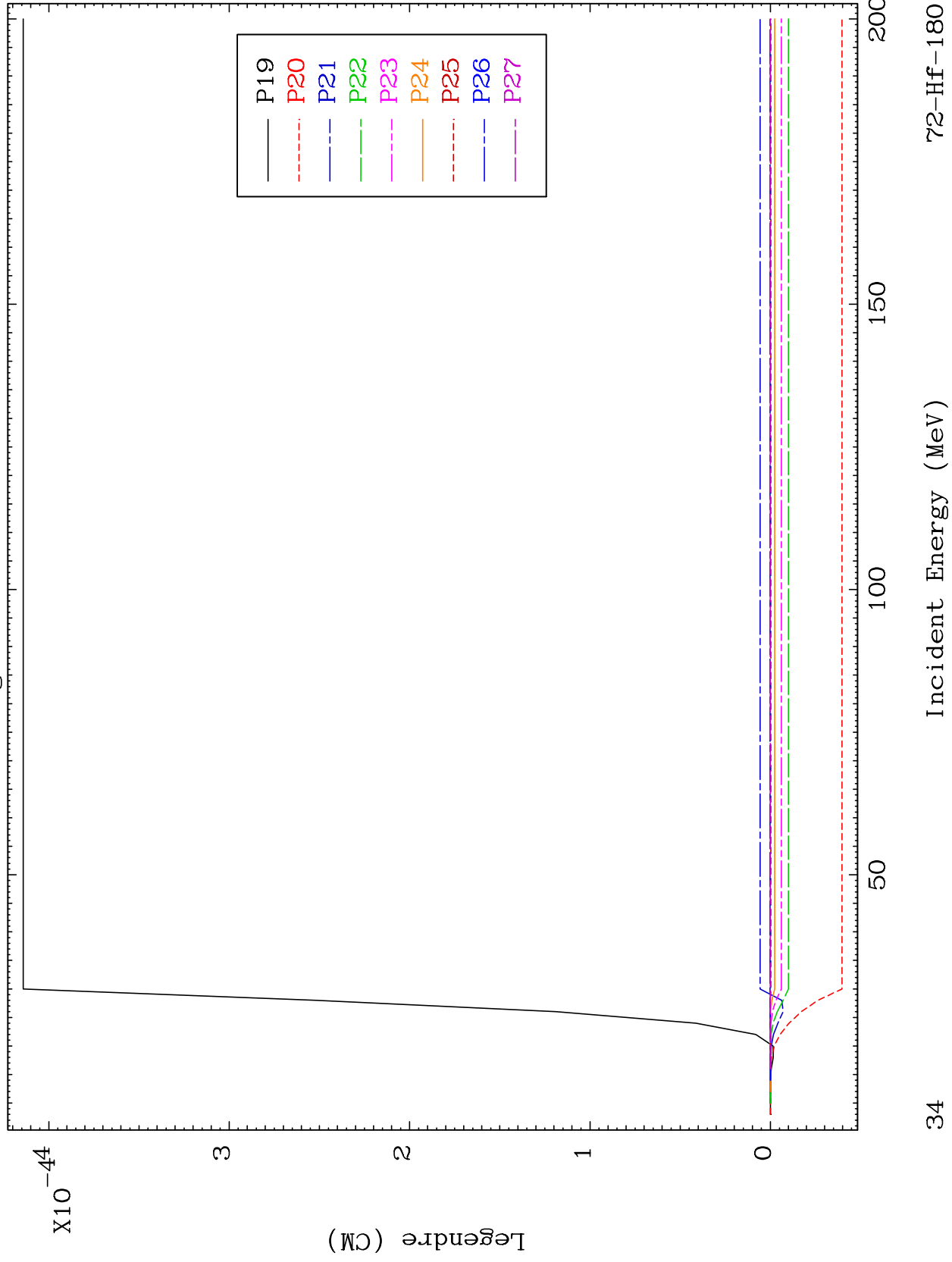
Incident Energy (MeV)

72-Hf-180

MAT 7243

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

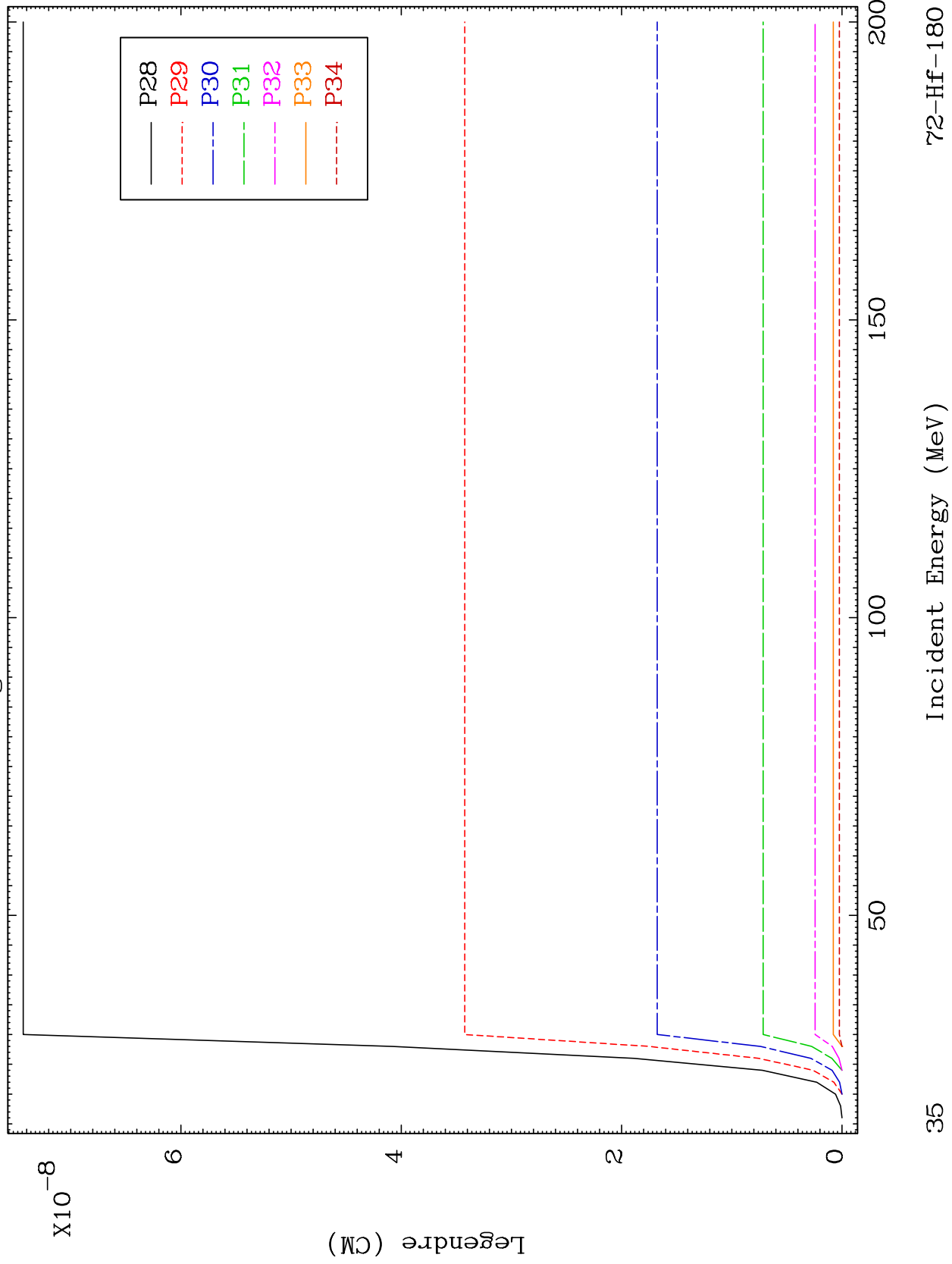
72-Hf-180



MAT 7243

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

72-Hf-180



35

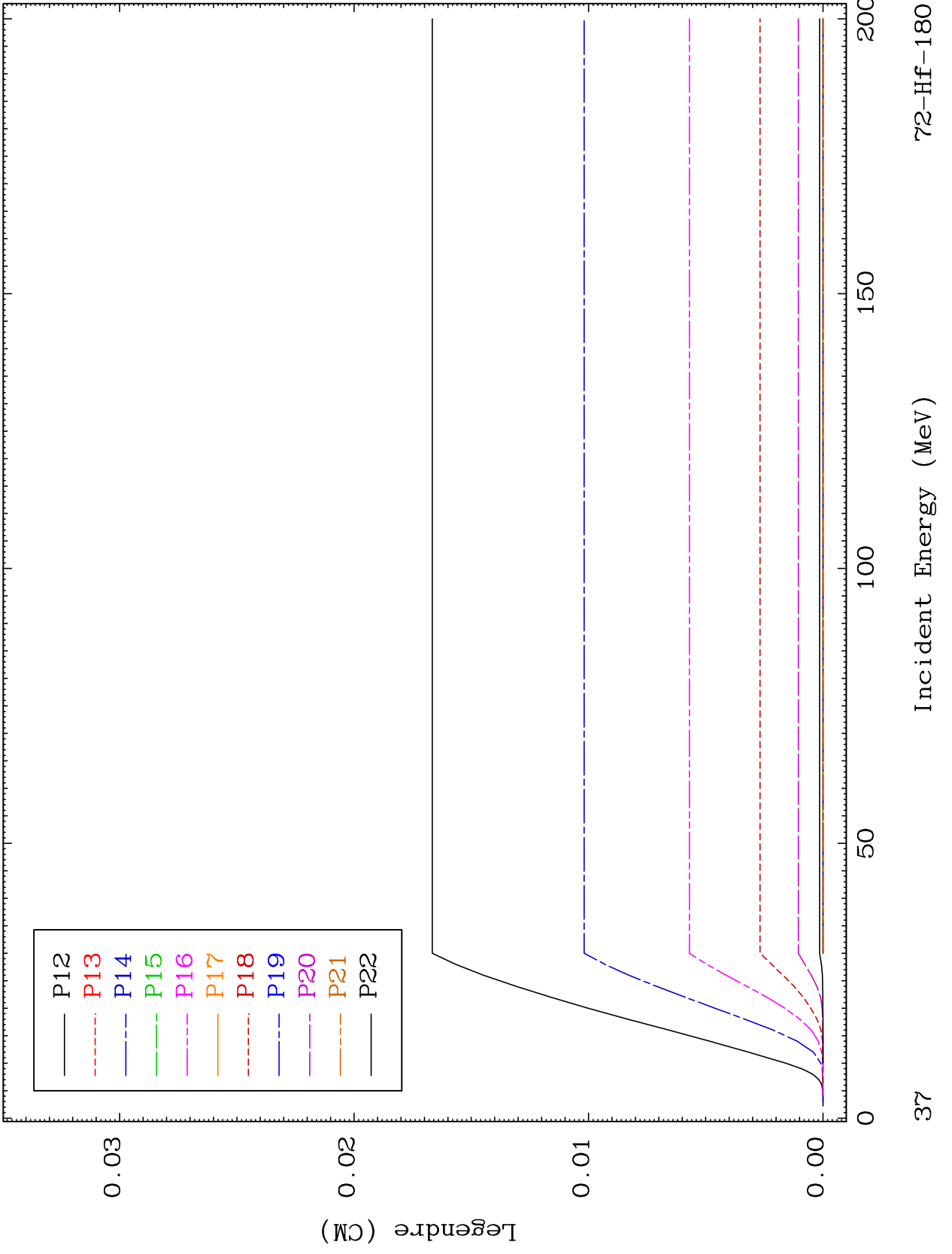
Incident Energy (MeV)

72-Hf-180

MAT 7243

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

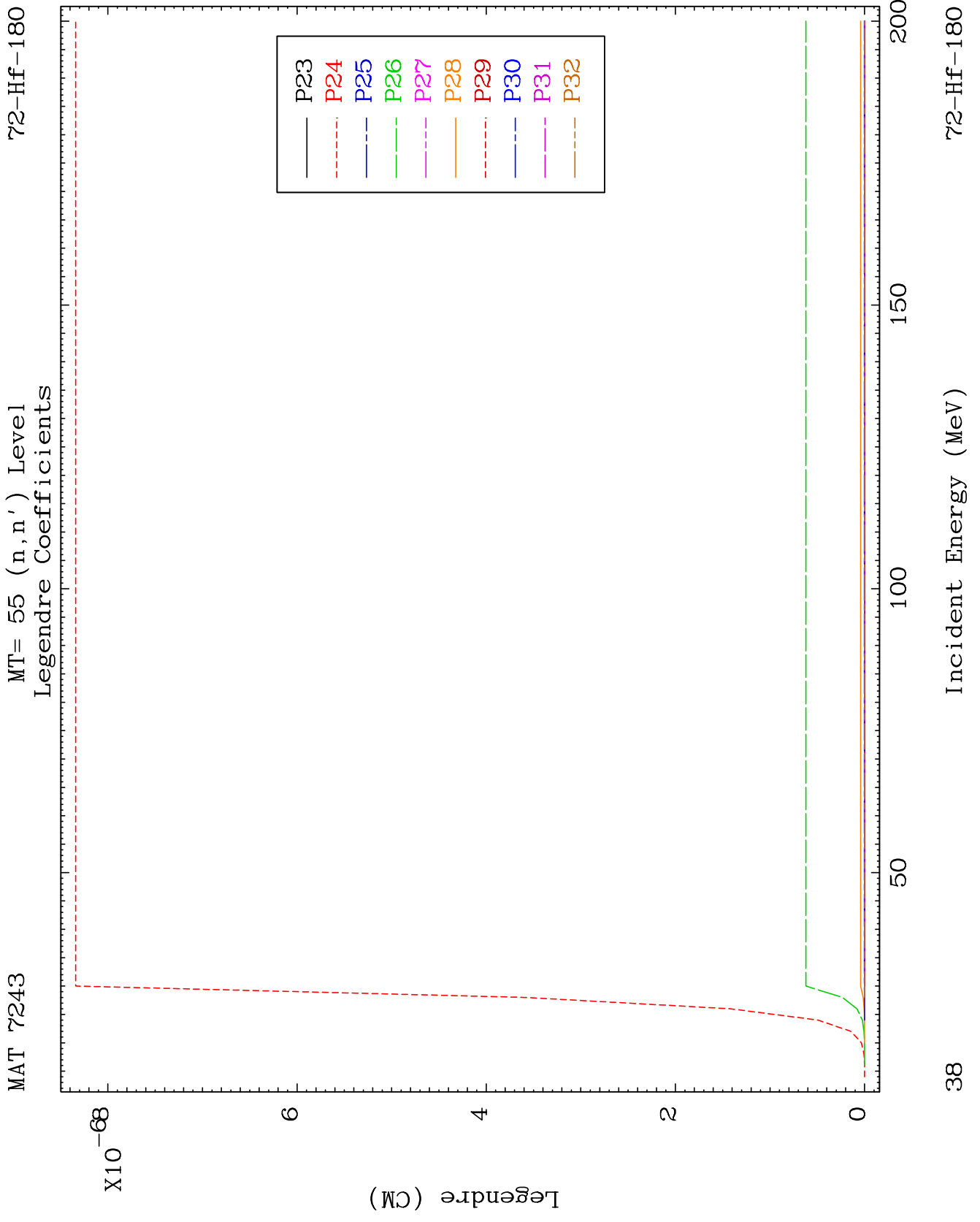
72-Hf-180



37

Incident Energy (MeV)

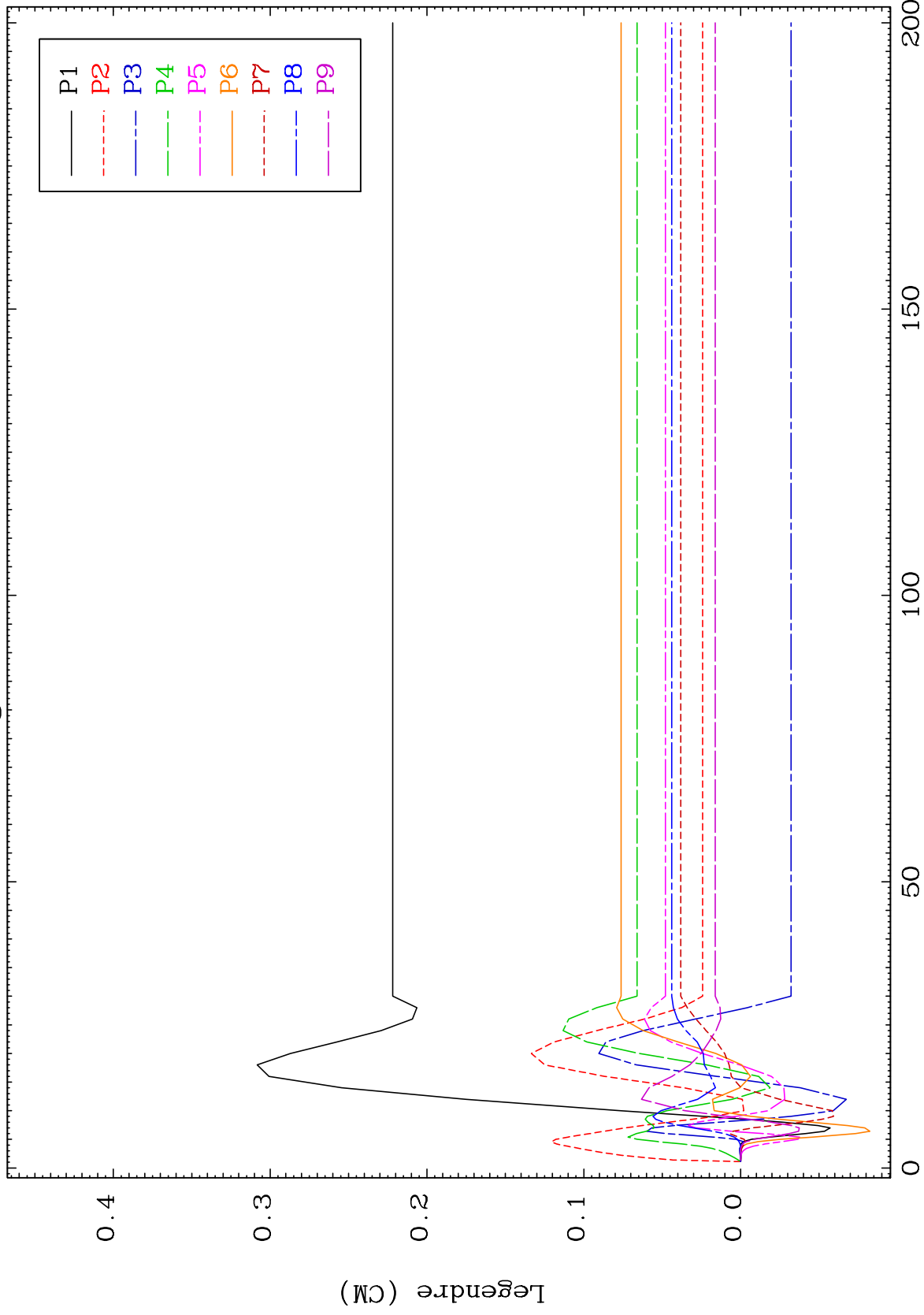
72-Hf-180



MAT 7243

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

72-Hf-180



39

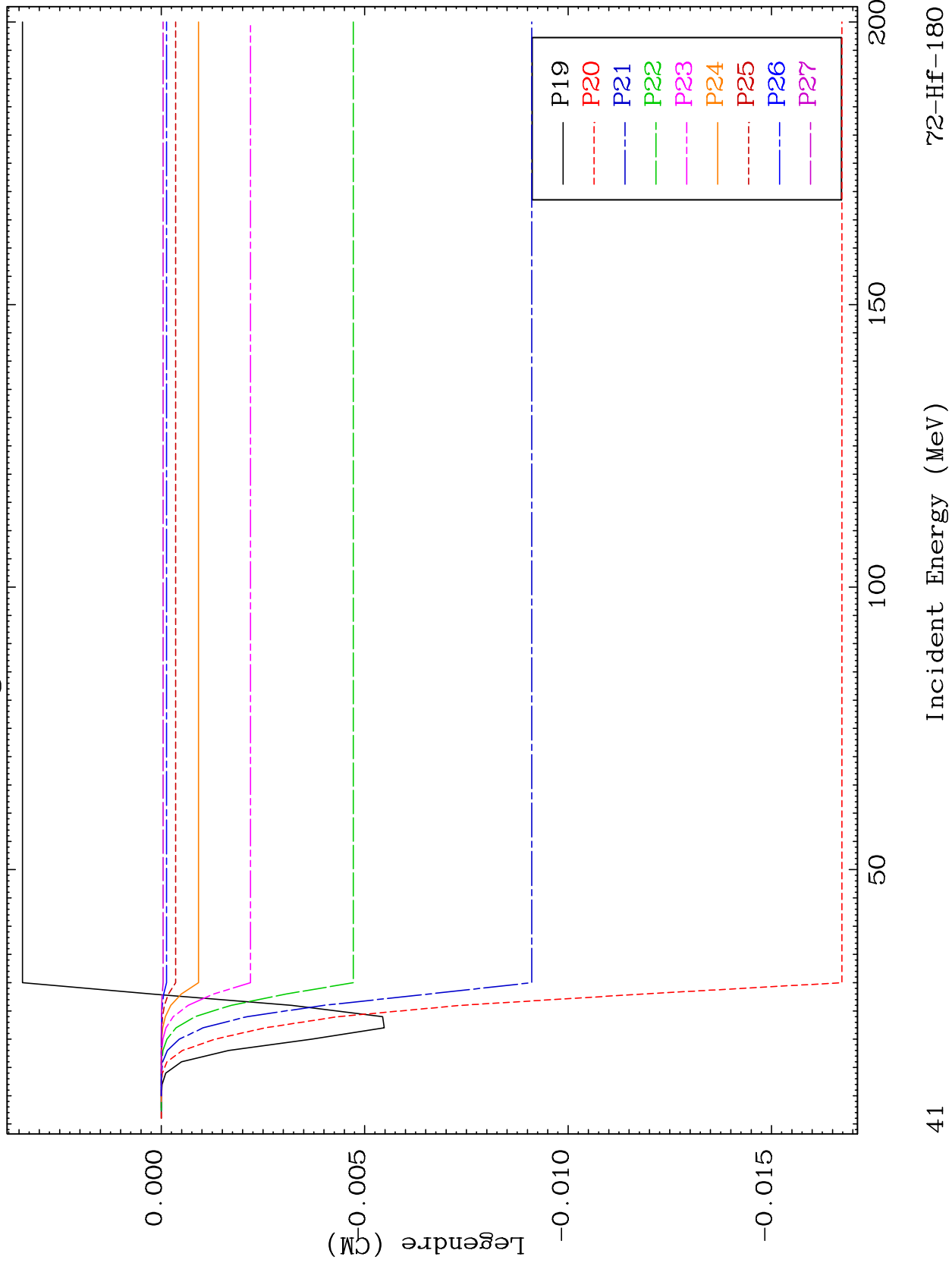
Incident Energy (MeV)

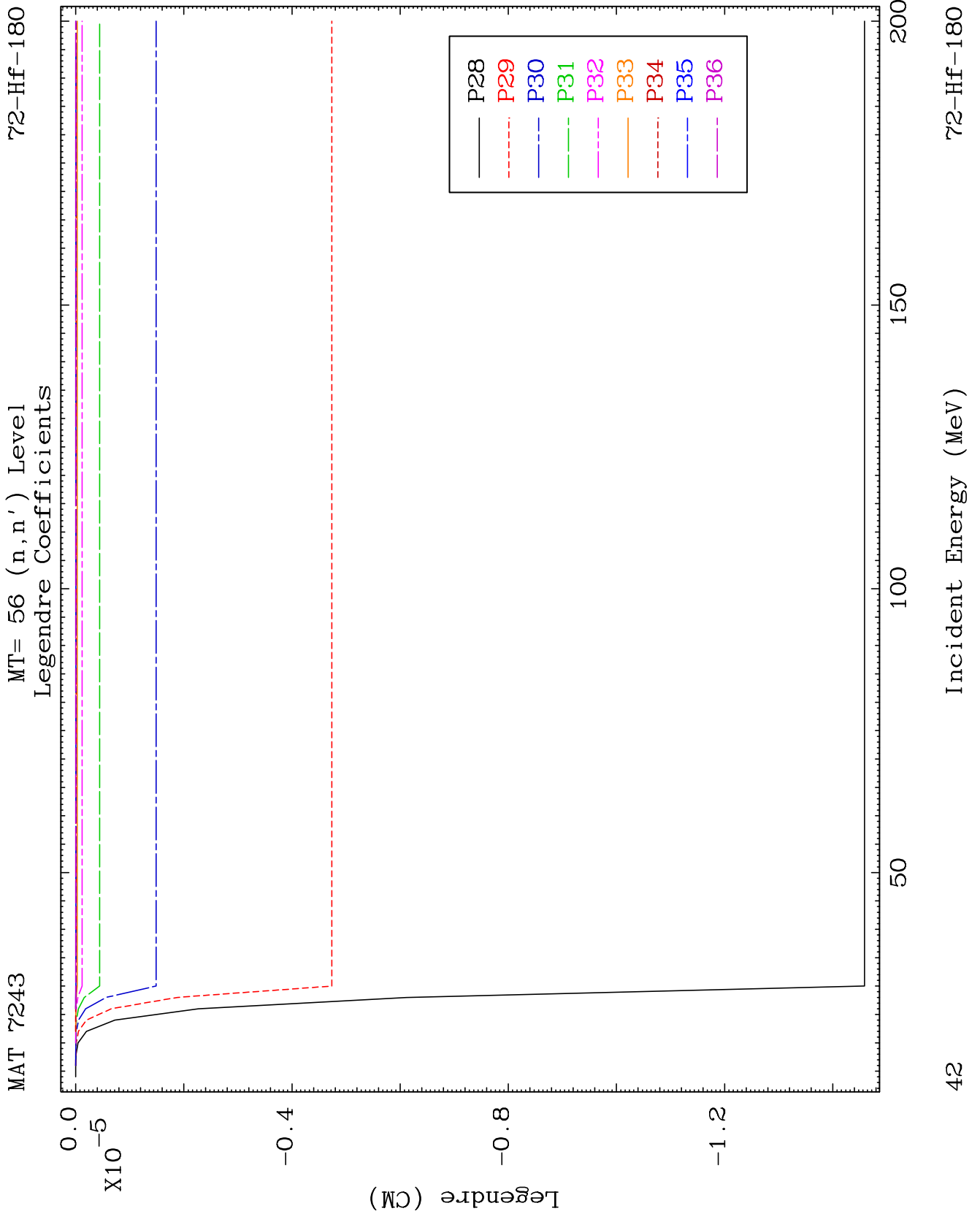
72-Hf-180

MAT 7243

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

72-Hf-180

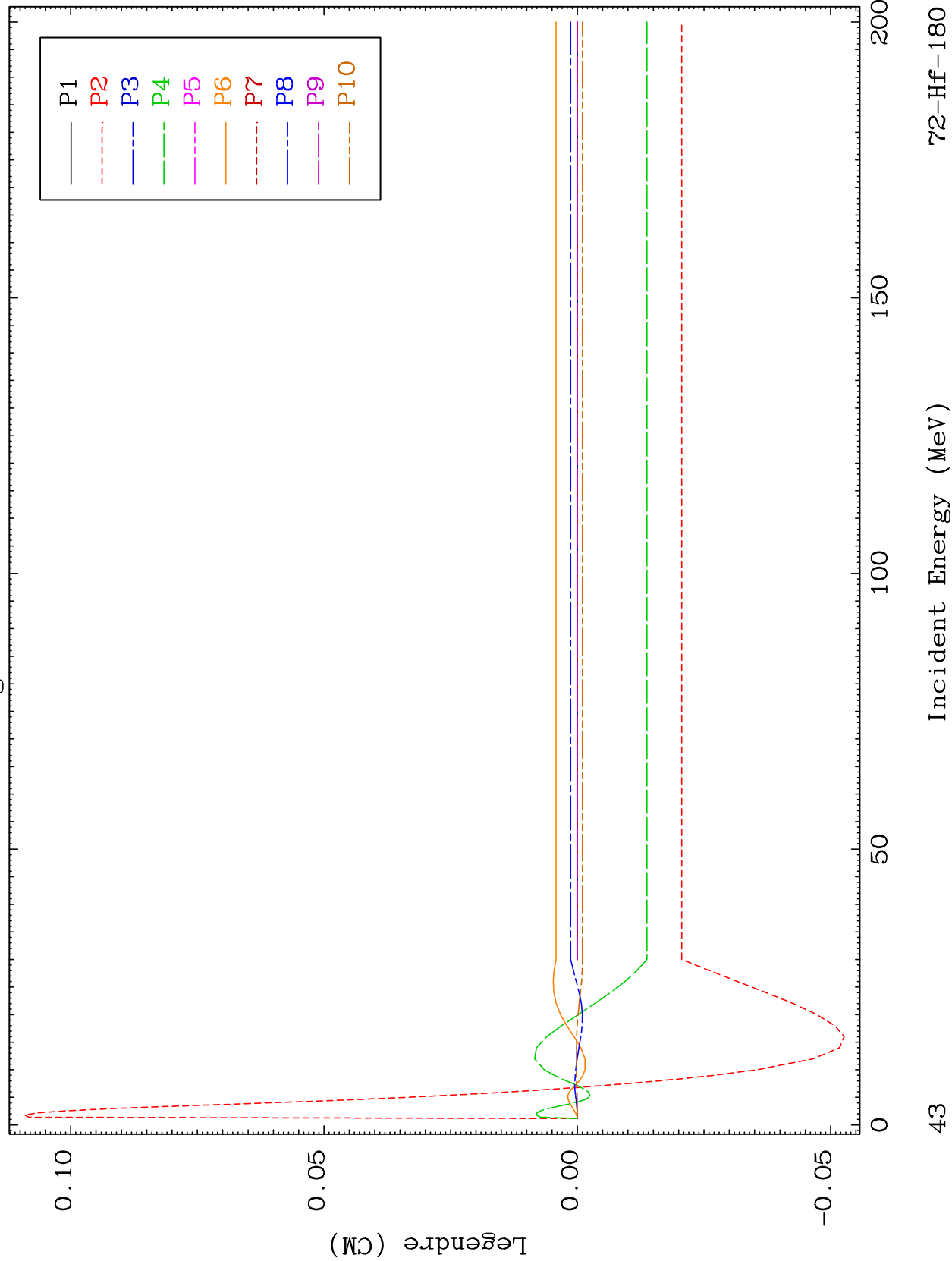




MAT 7243

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

72-Hf-180



72-Hf-180

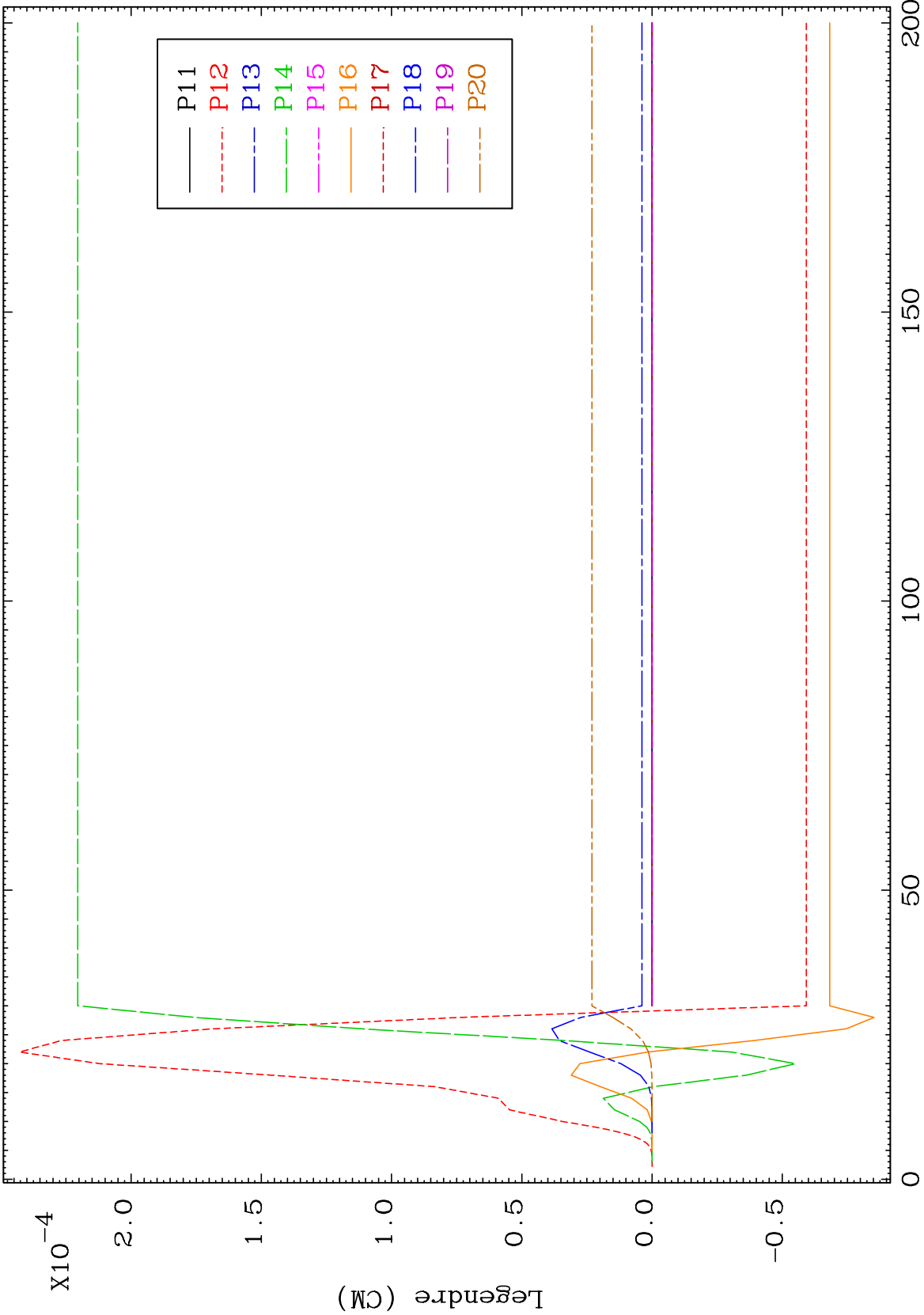
Incident Energy (MeV)

43

MAT 7243

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

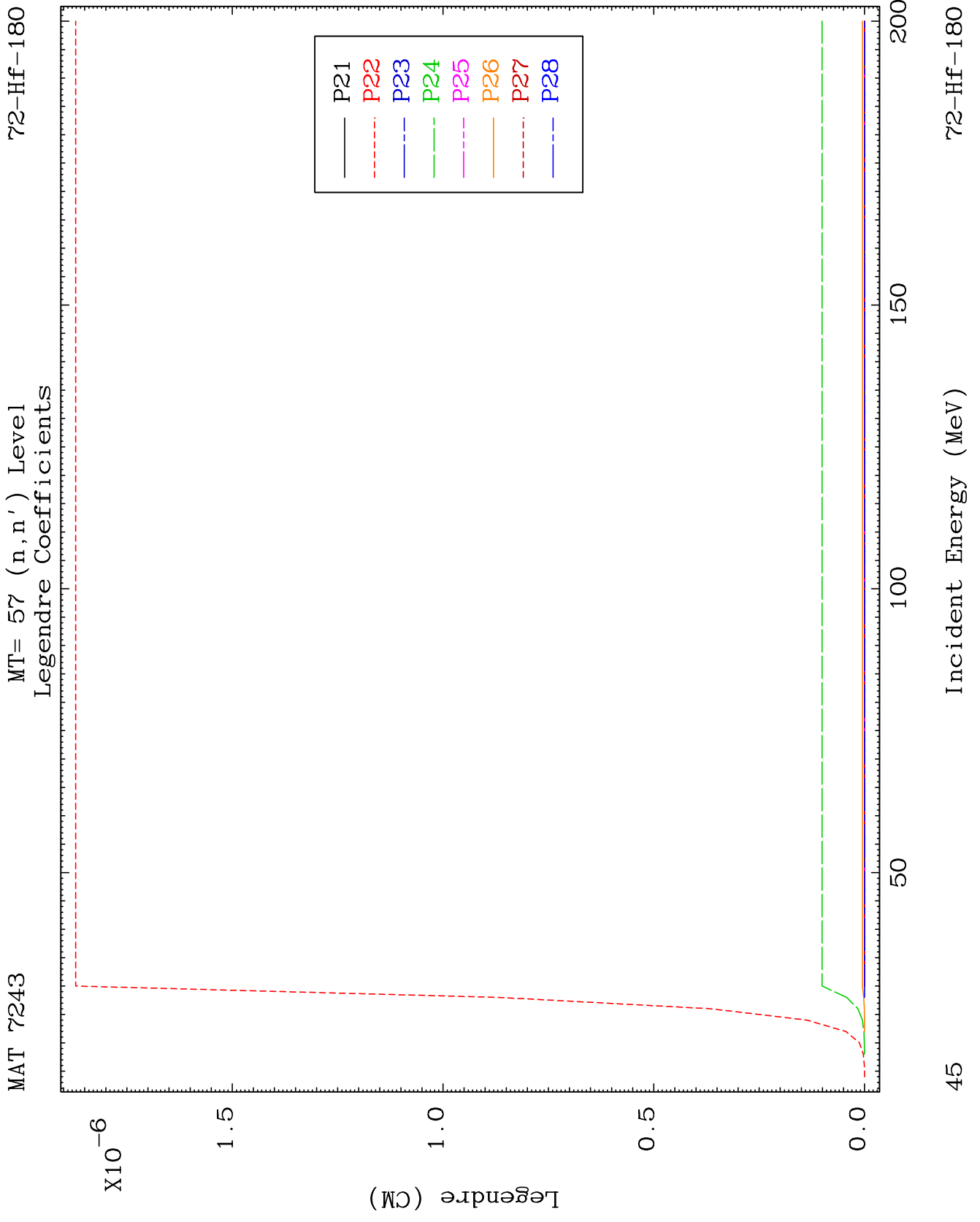
72-Hf-180



44

Incident Energy (MeV)

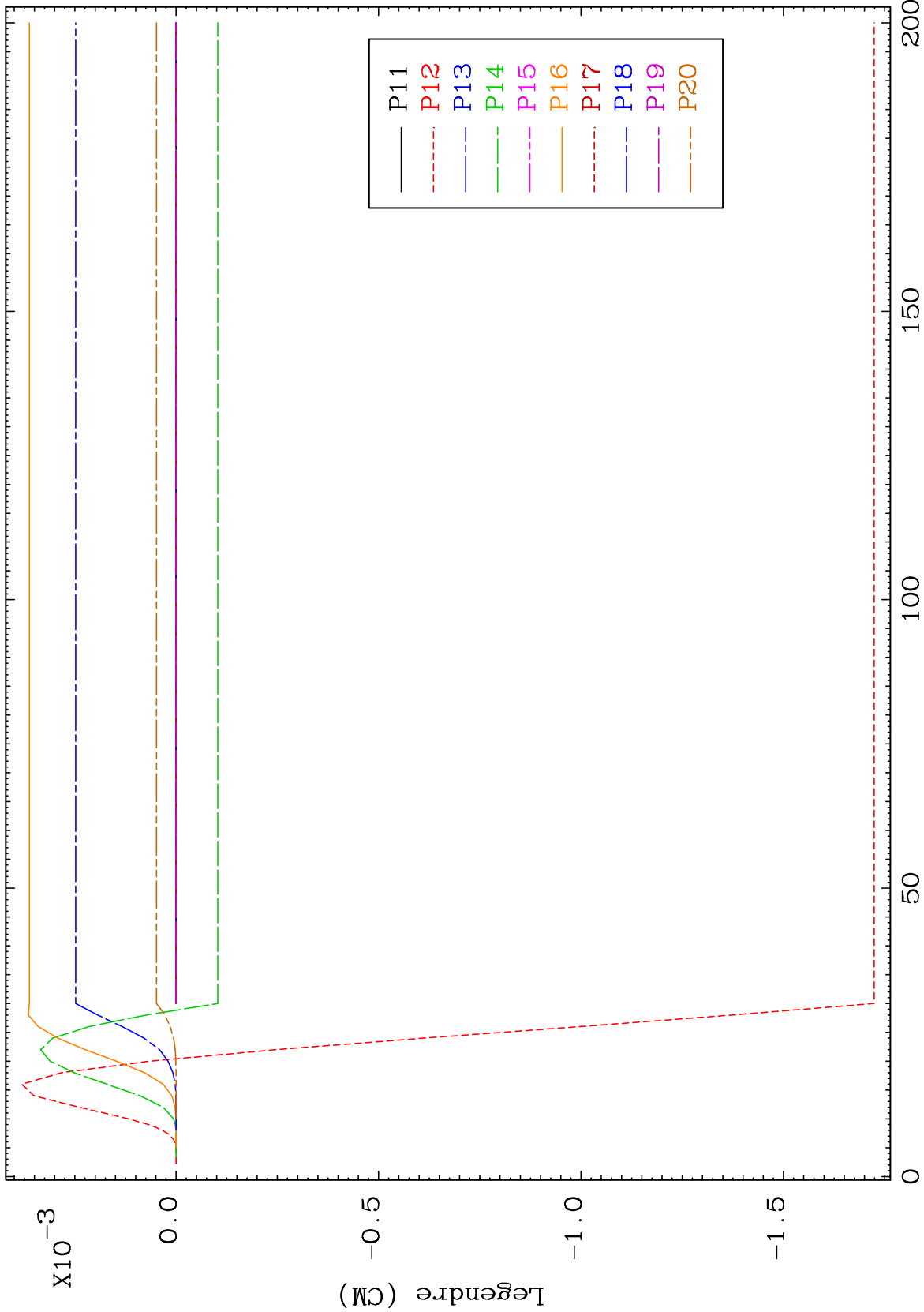
72-Hf-180



MAT 7243

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

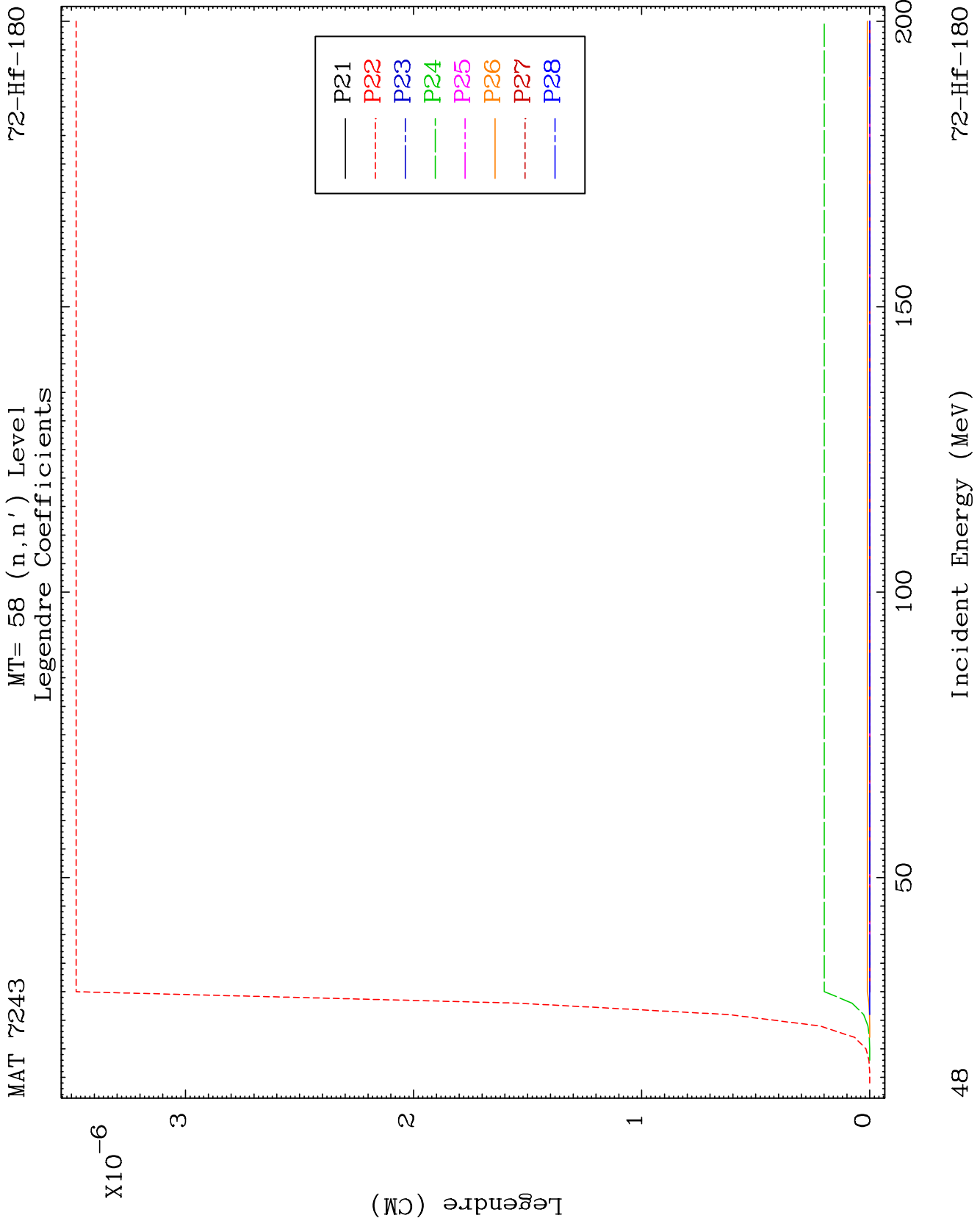
72-Hf-180



47

Incident Energy (MeV)

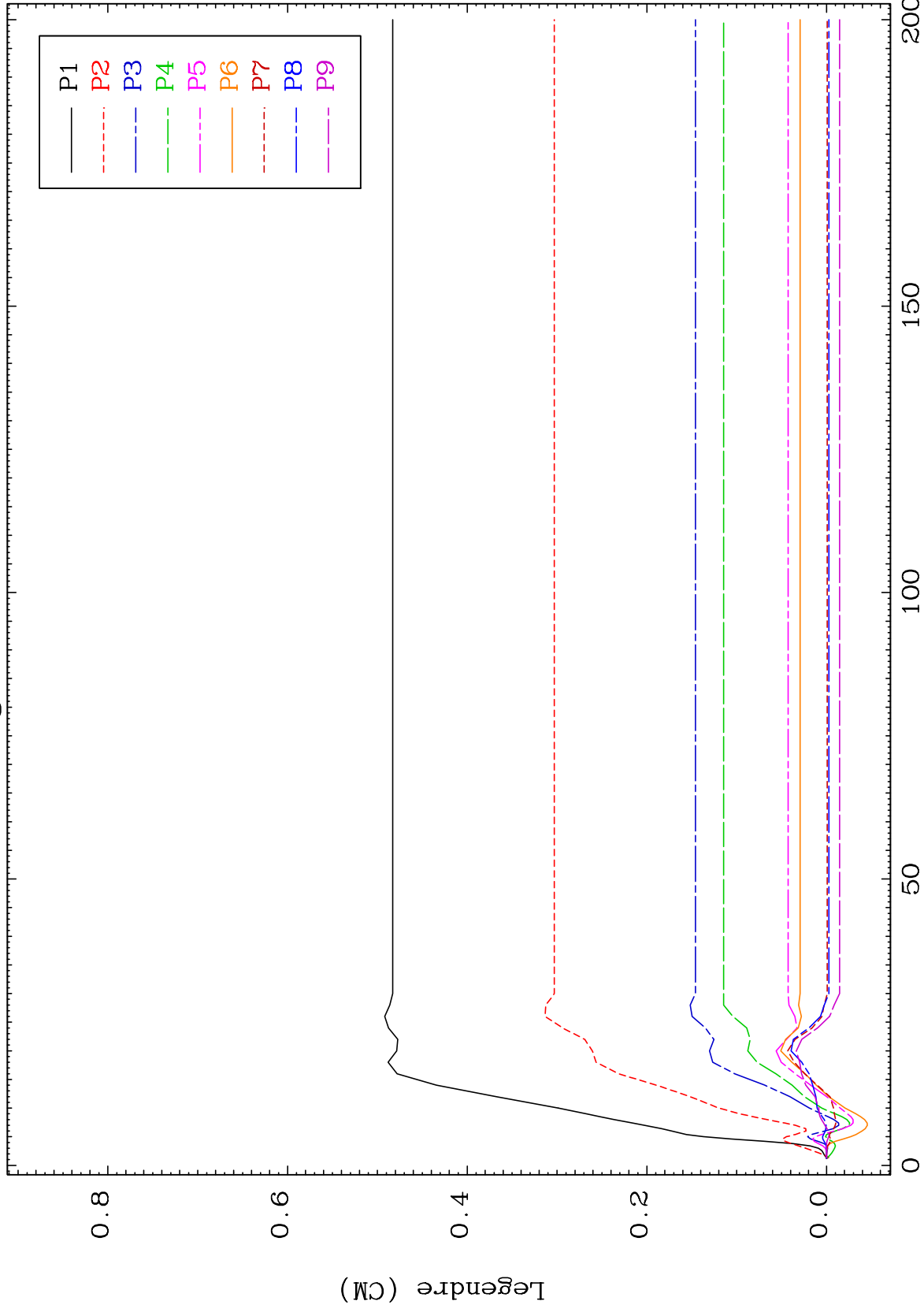
72-Hf-180



MAT 7243

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

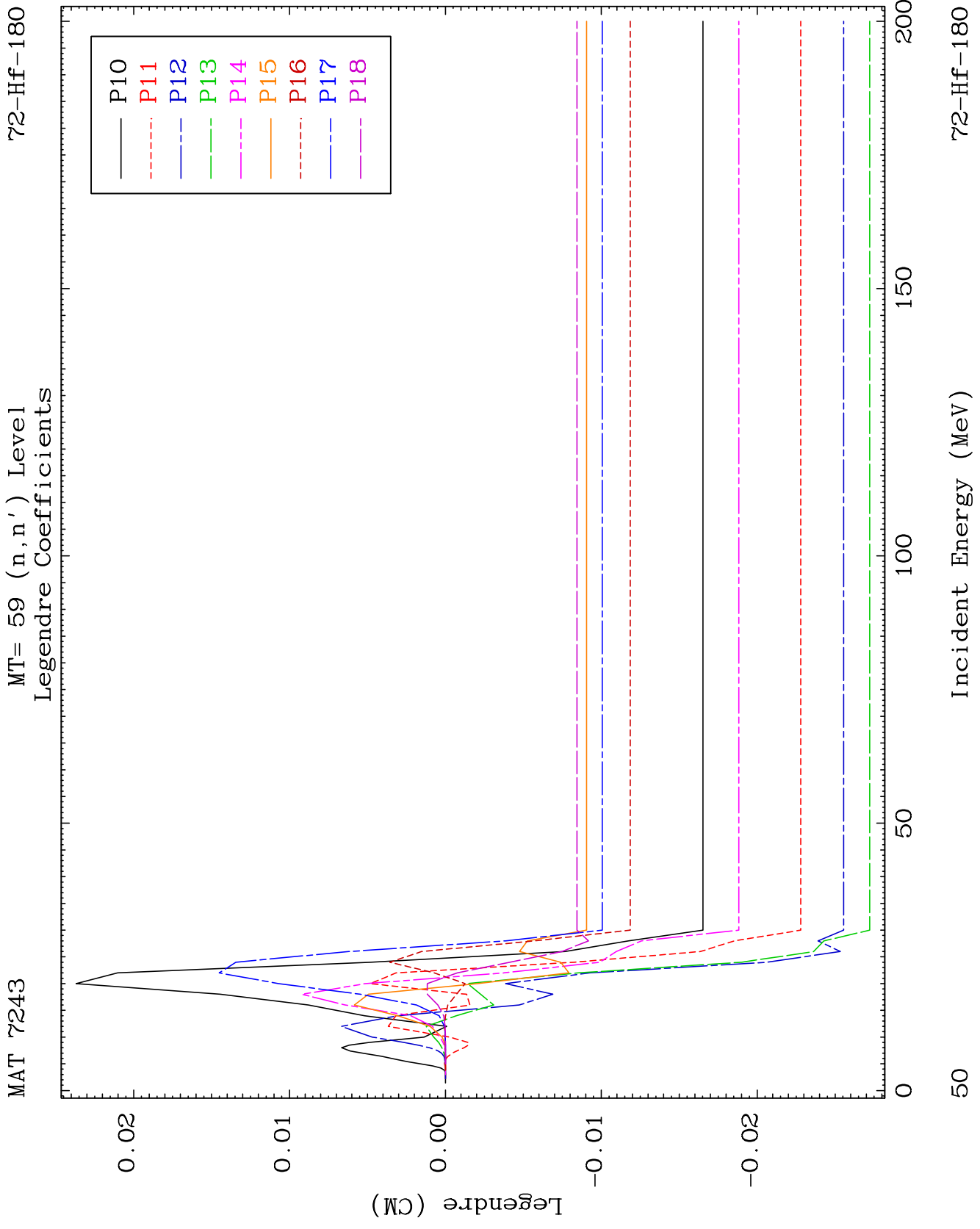
72-Hf-180



49

Incident Energy (MeV)

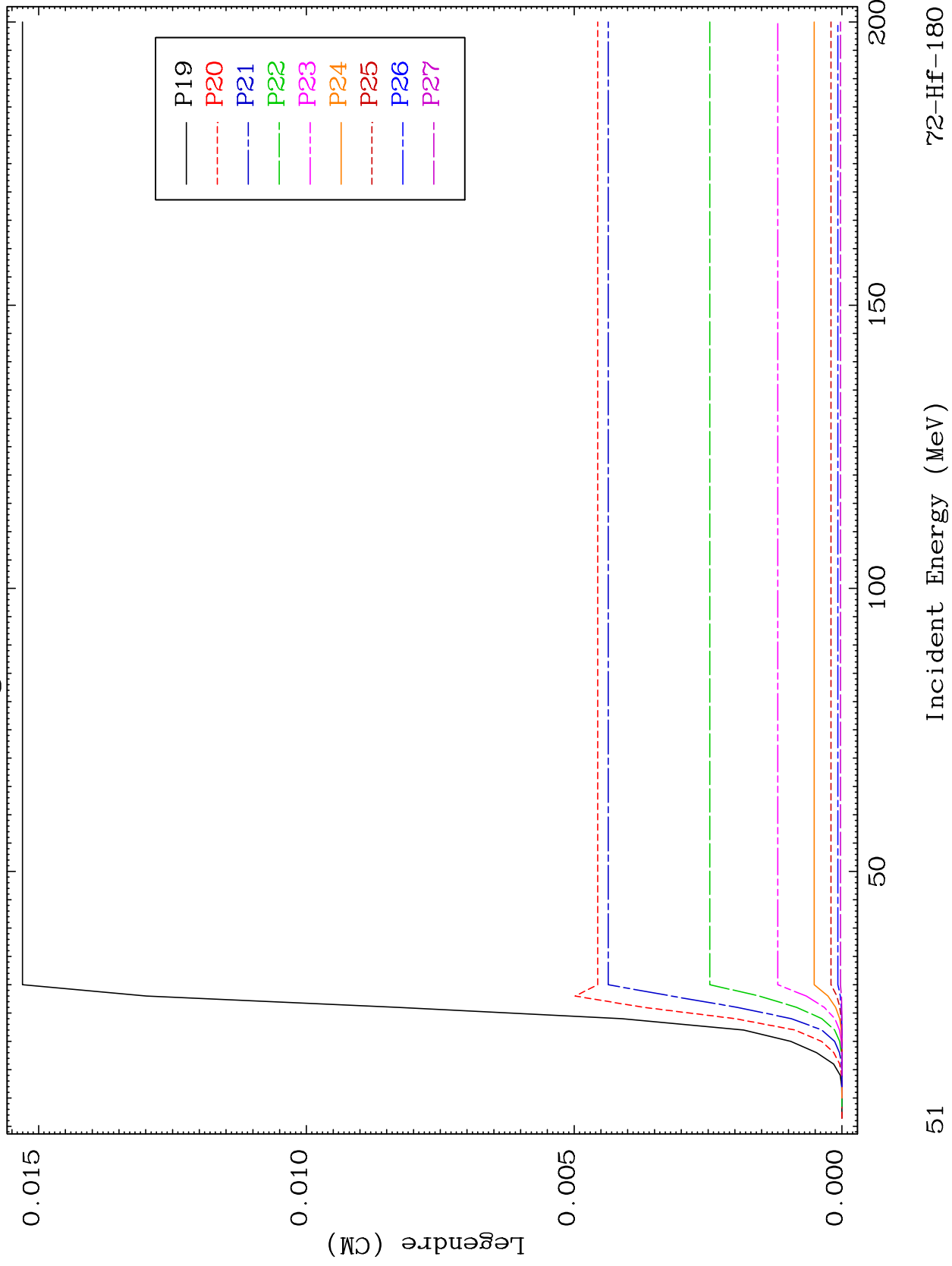
72-Hf-180



MAT 7243

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

72-Hf-180



51

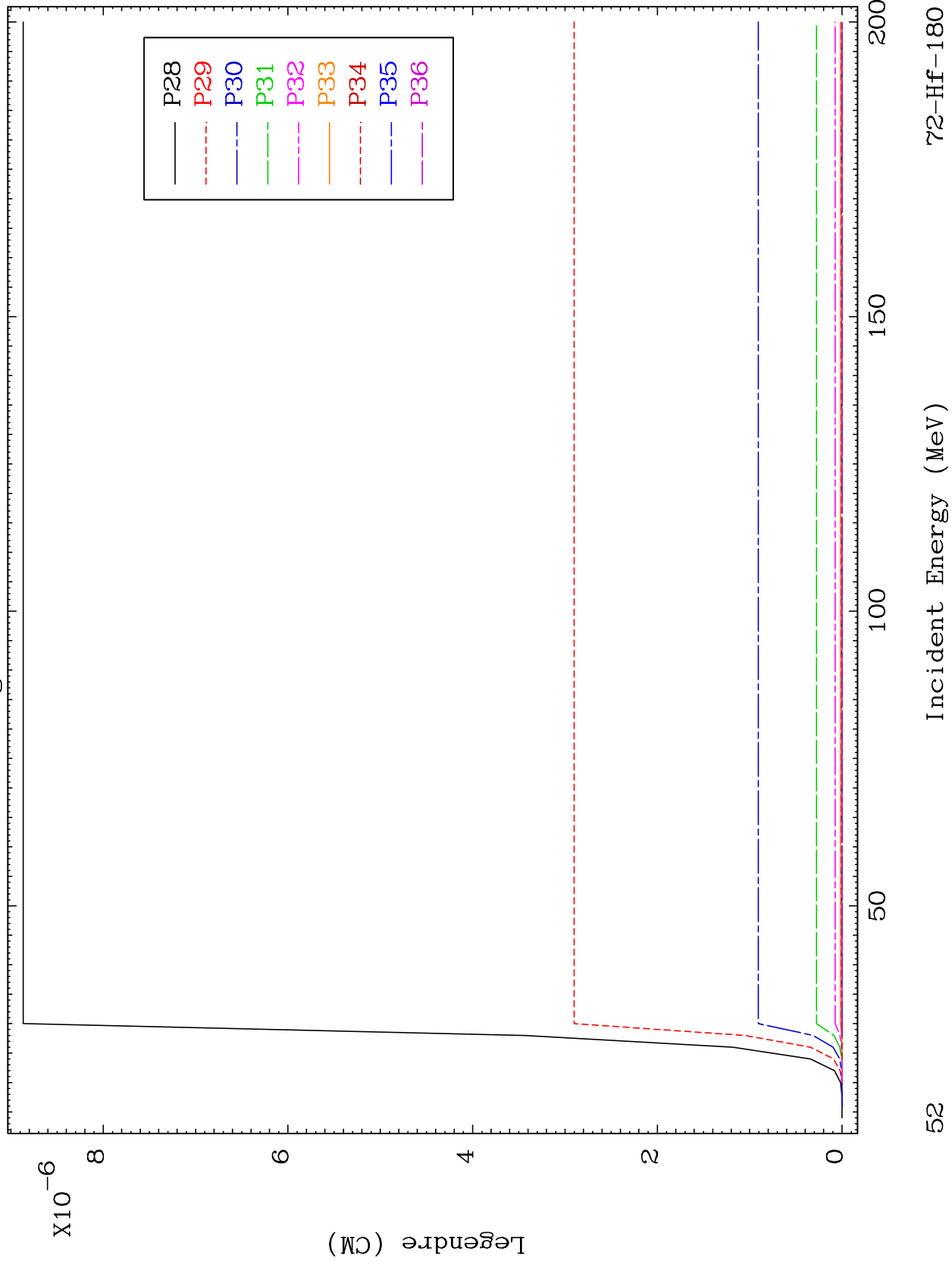
Incident Energy (MeV)

72-Hf-180

MAT 7243

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

72-Hf-180

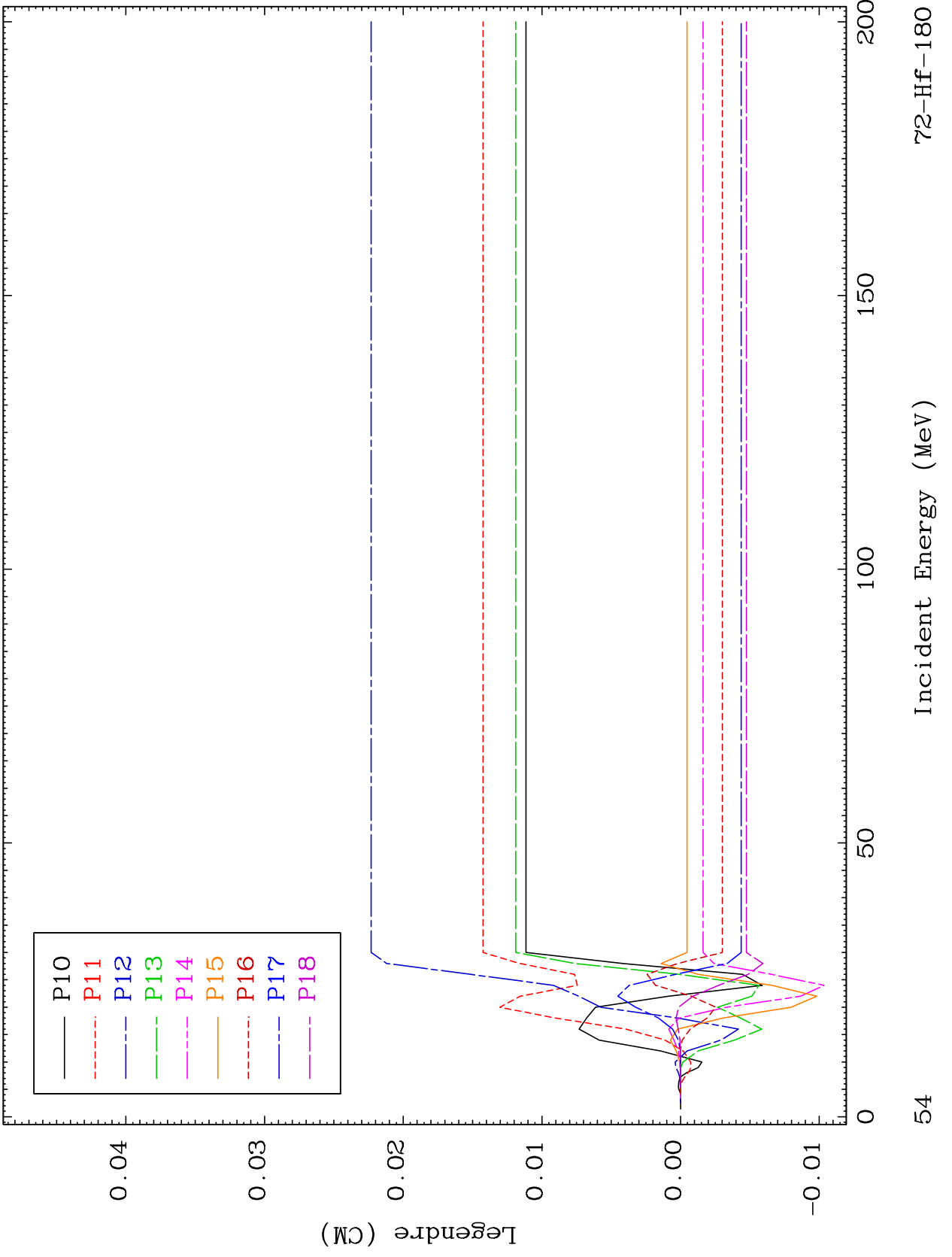


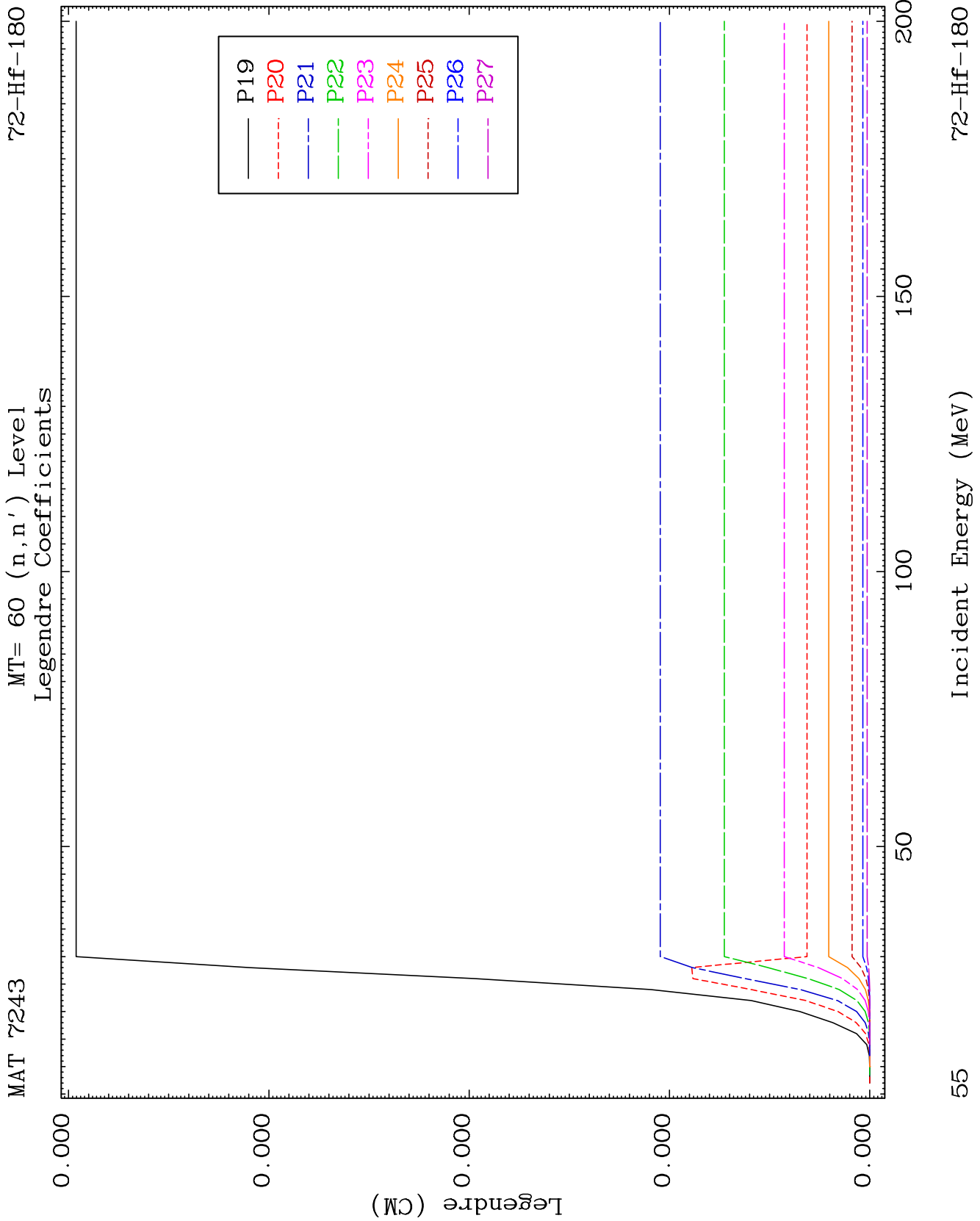
52

MAT 7243

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

72-Hf-180

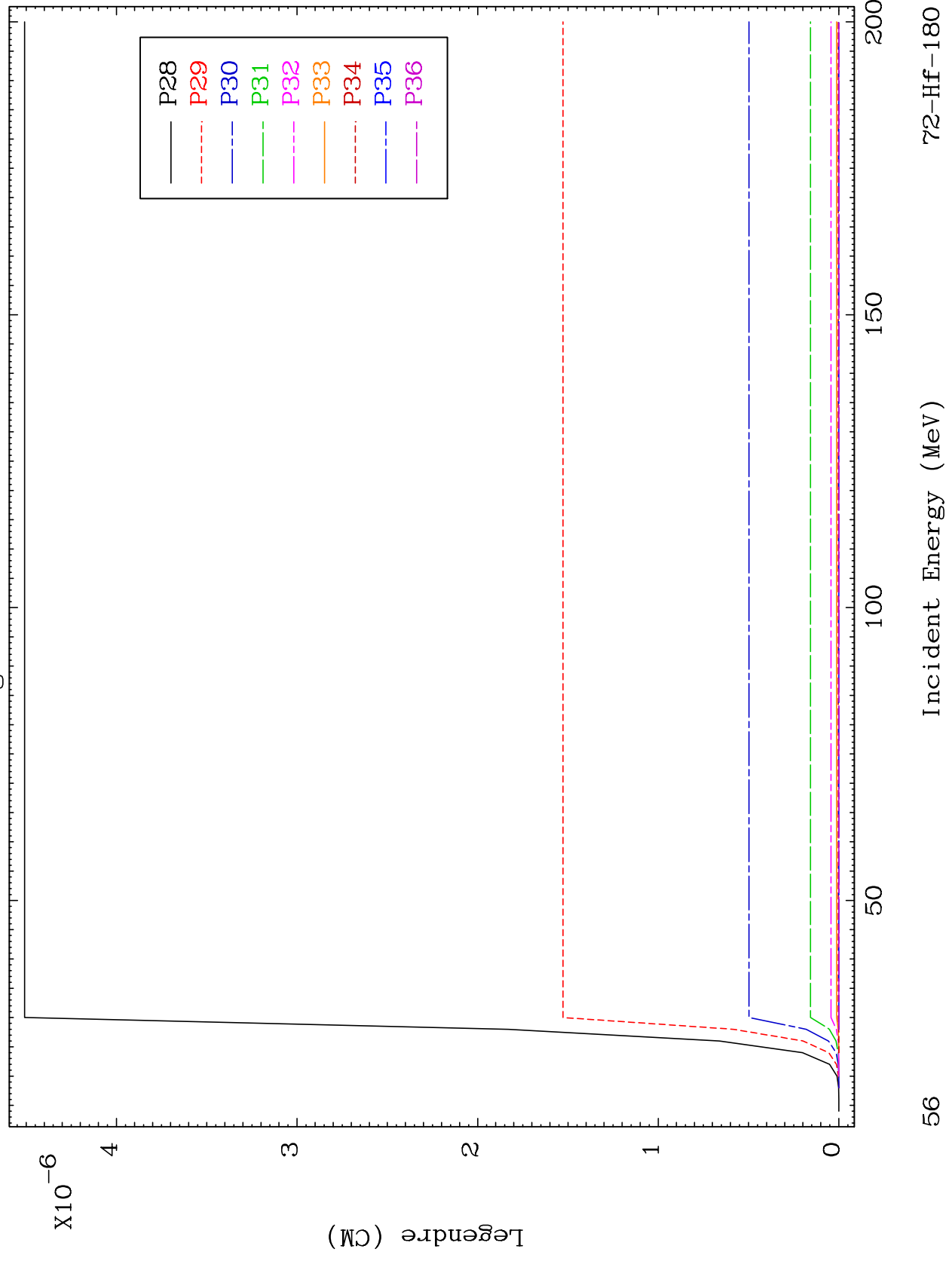




MAT 7243

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

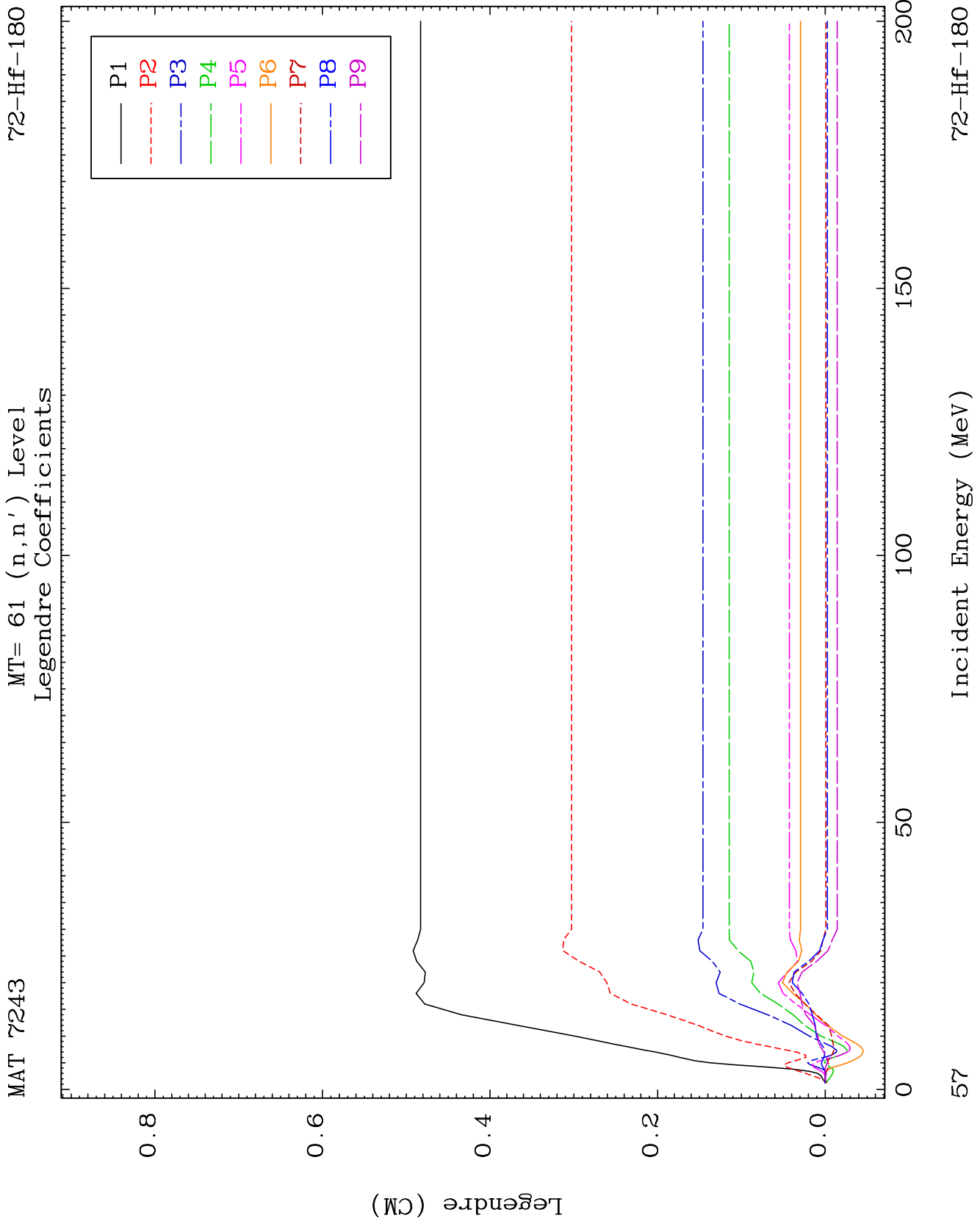
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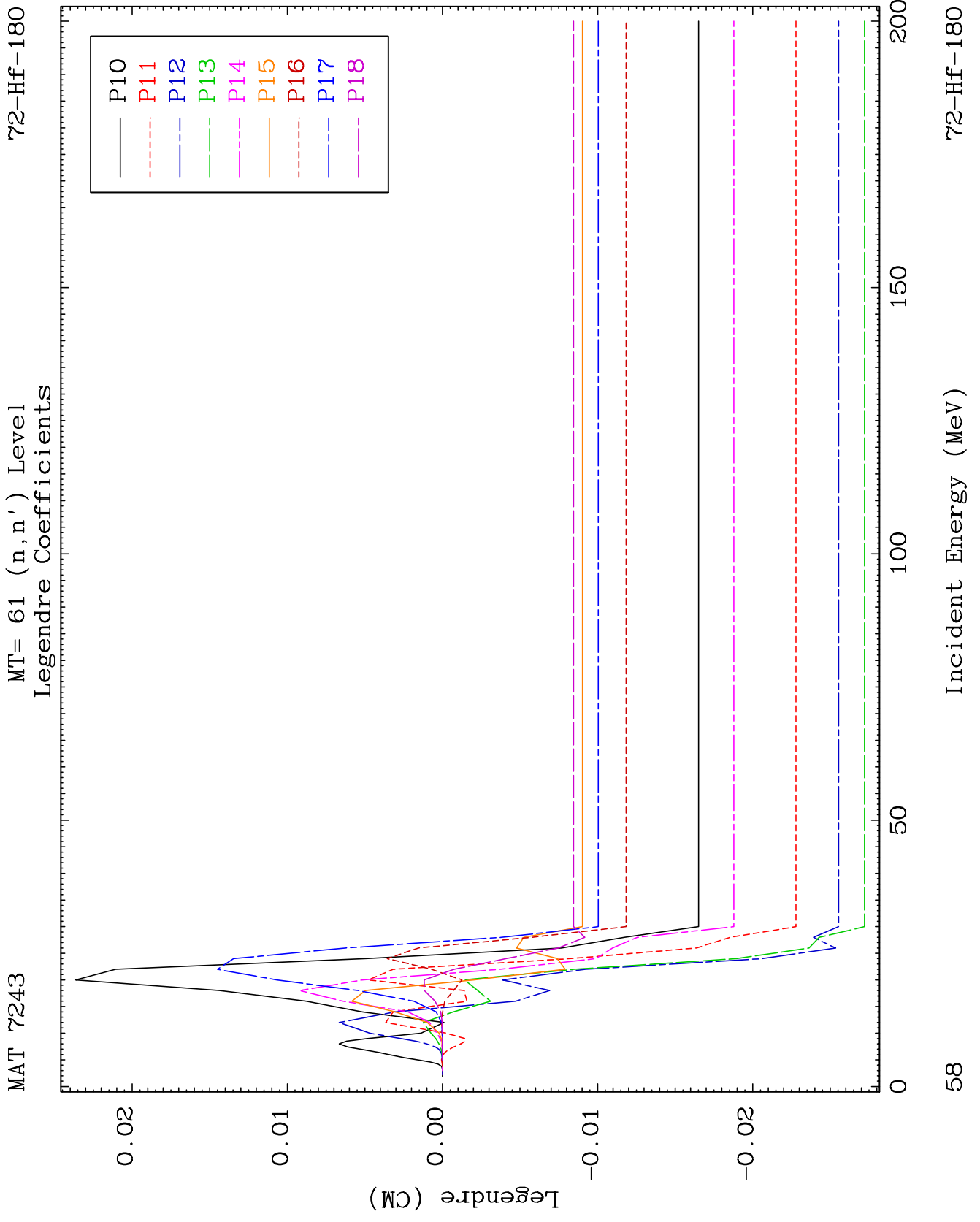


56

Incident Energy (MeV)

72-Hf-180

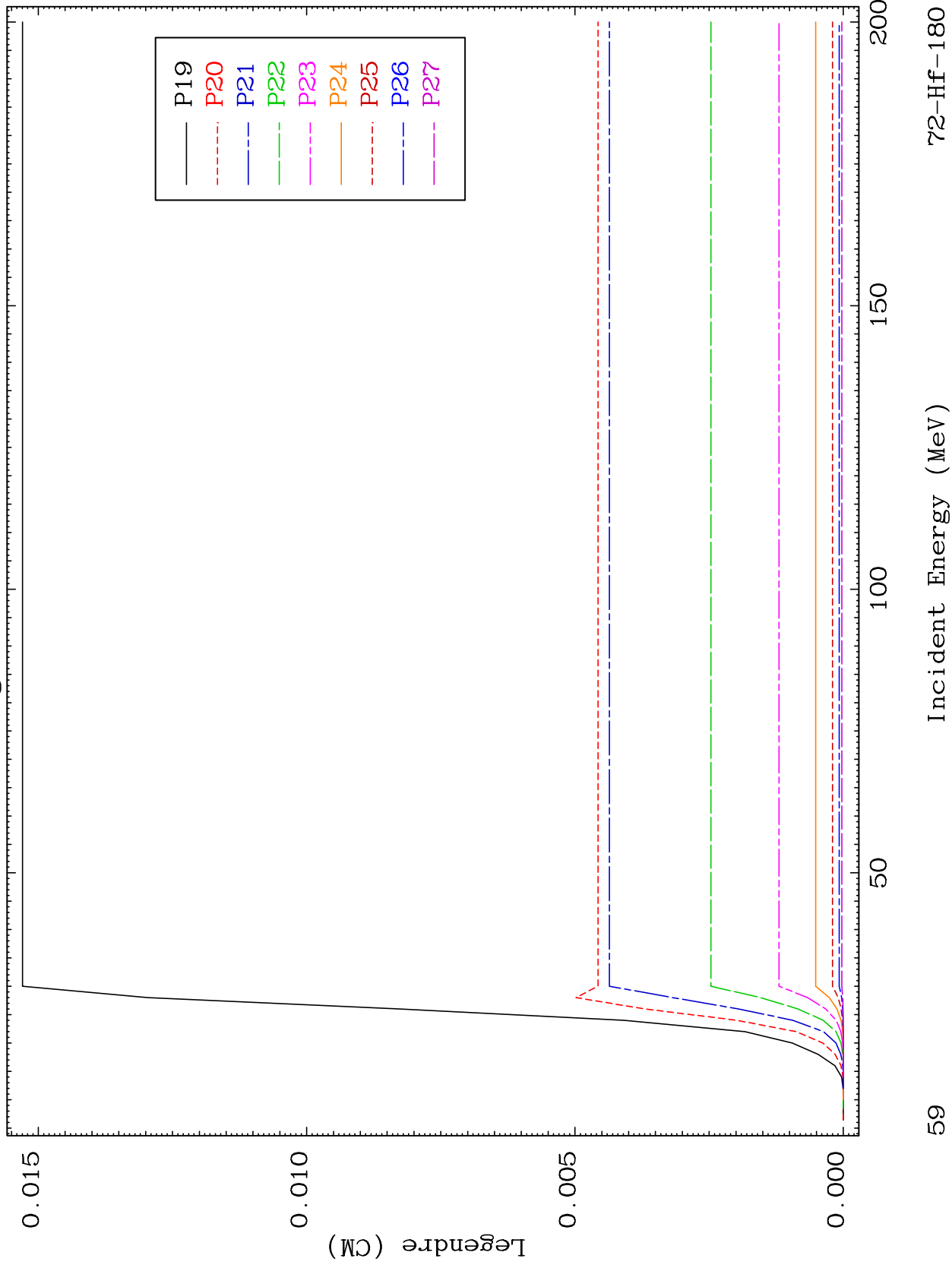




MAT 7243

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

72-Hf-180



59

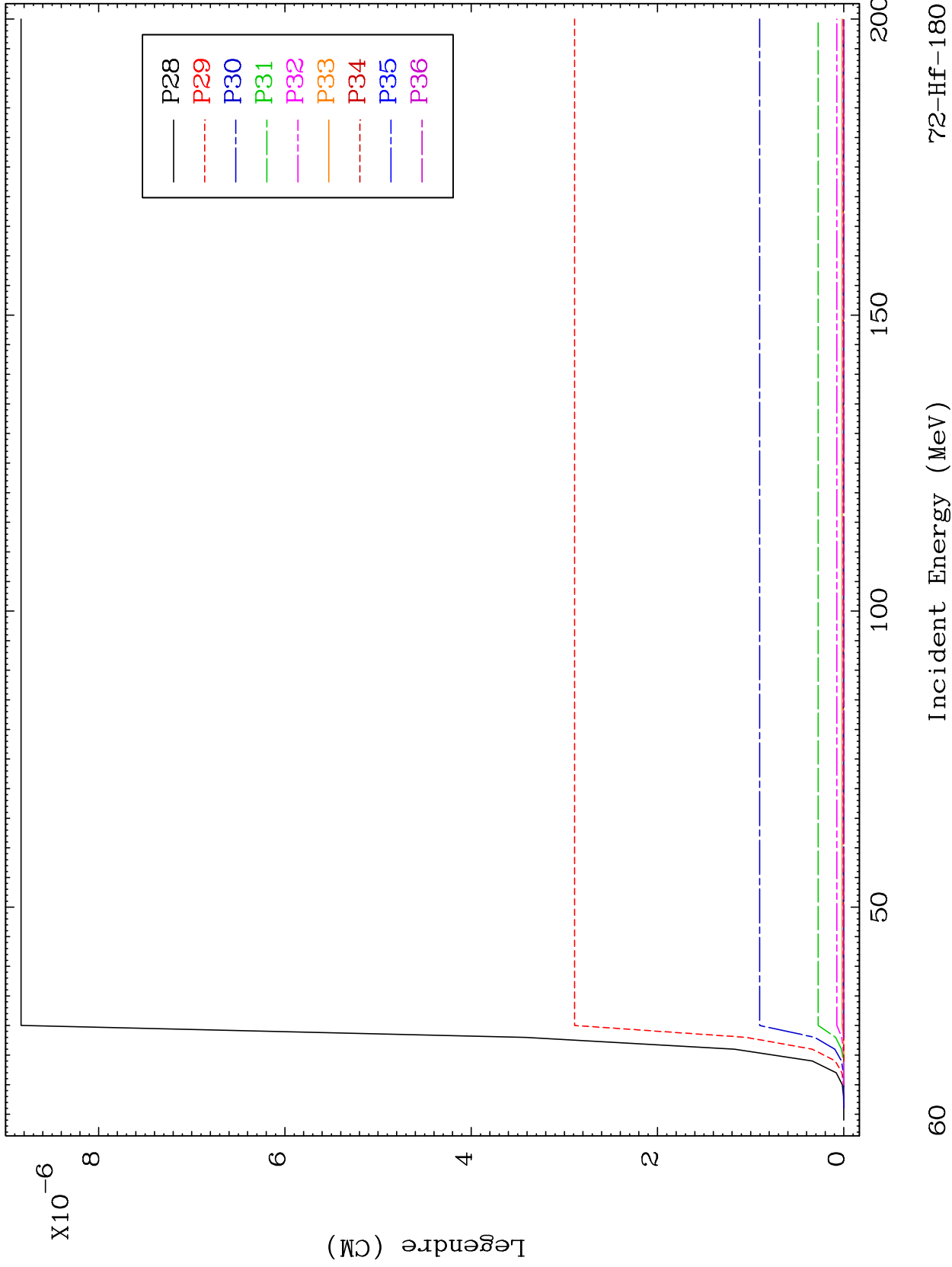
Incident Energy (MeV)

72-Hf-180

MAT 7243

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

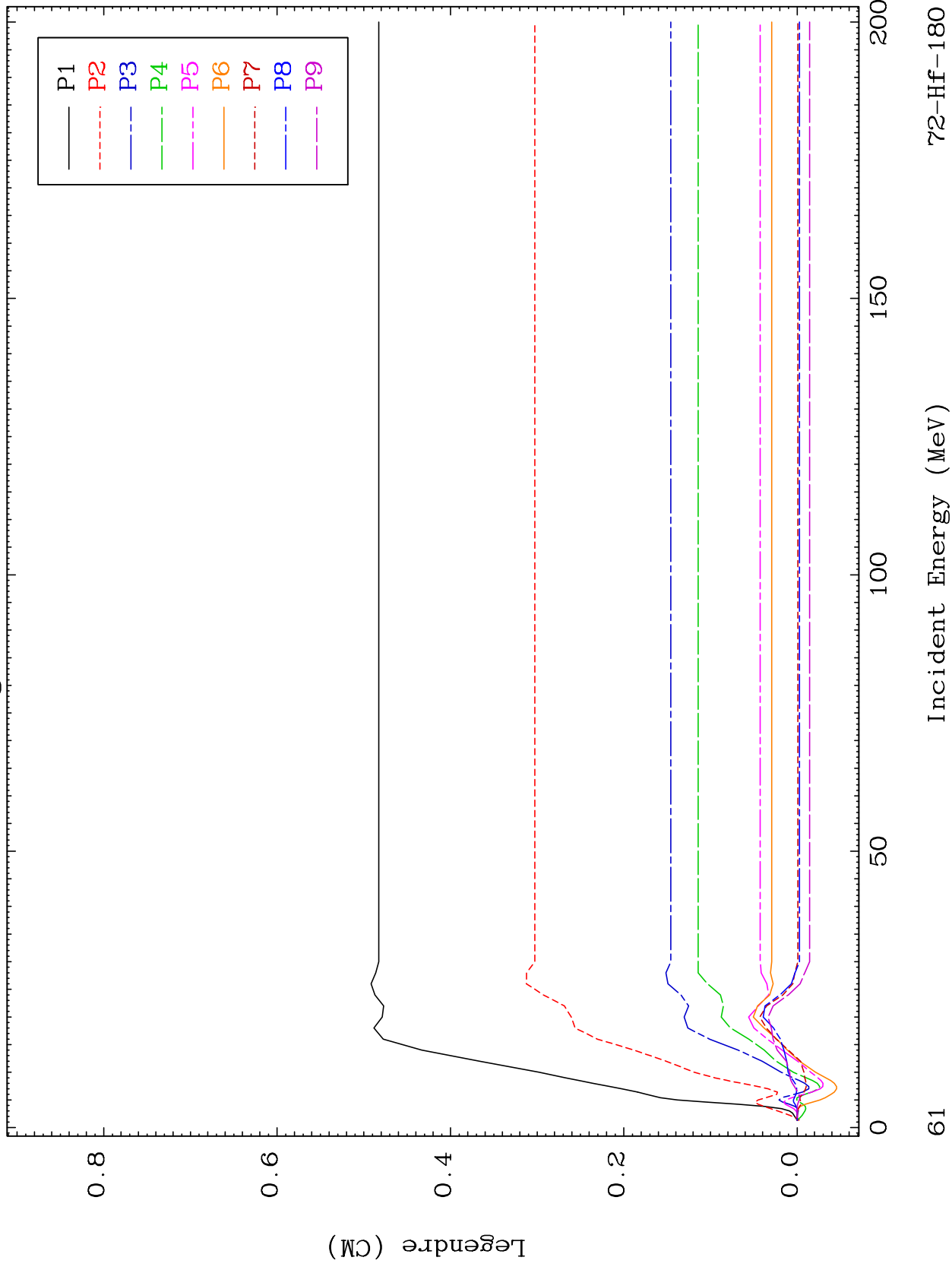
72-Hf-180



MAT 7243

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

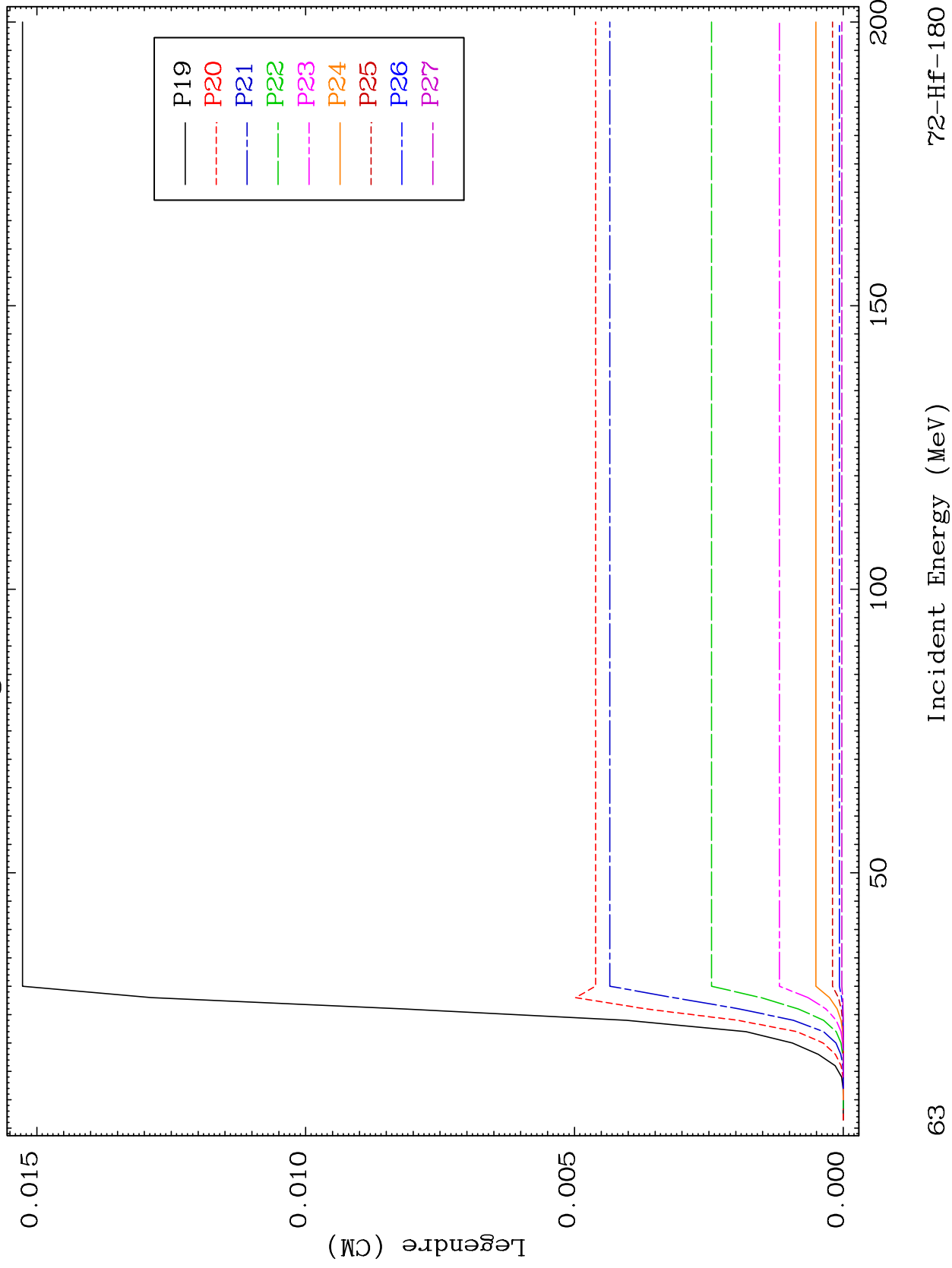
72-Hf-180



MAT 7243

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

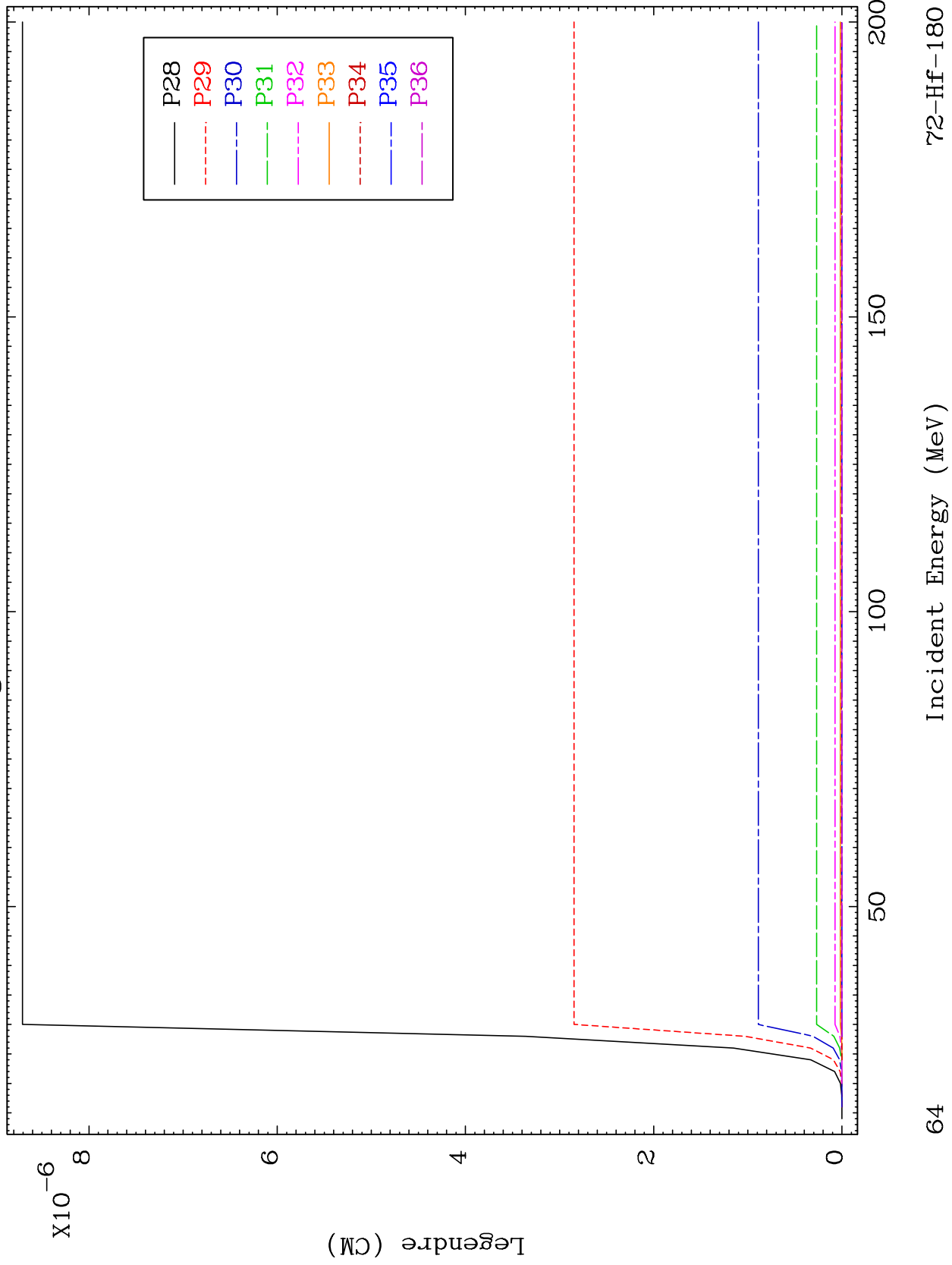
72-Hf-180



MAT 7243

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

72-Hf-180

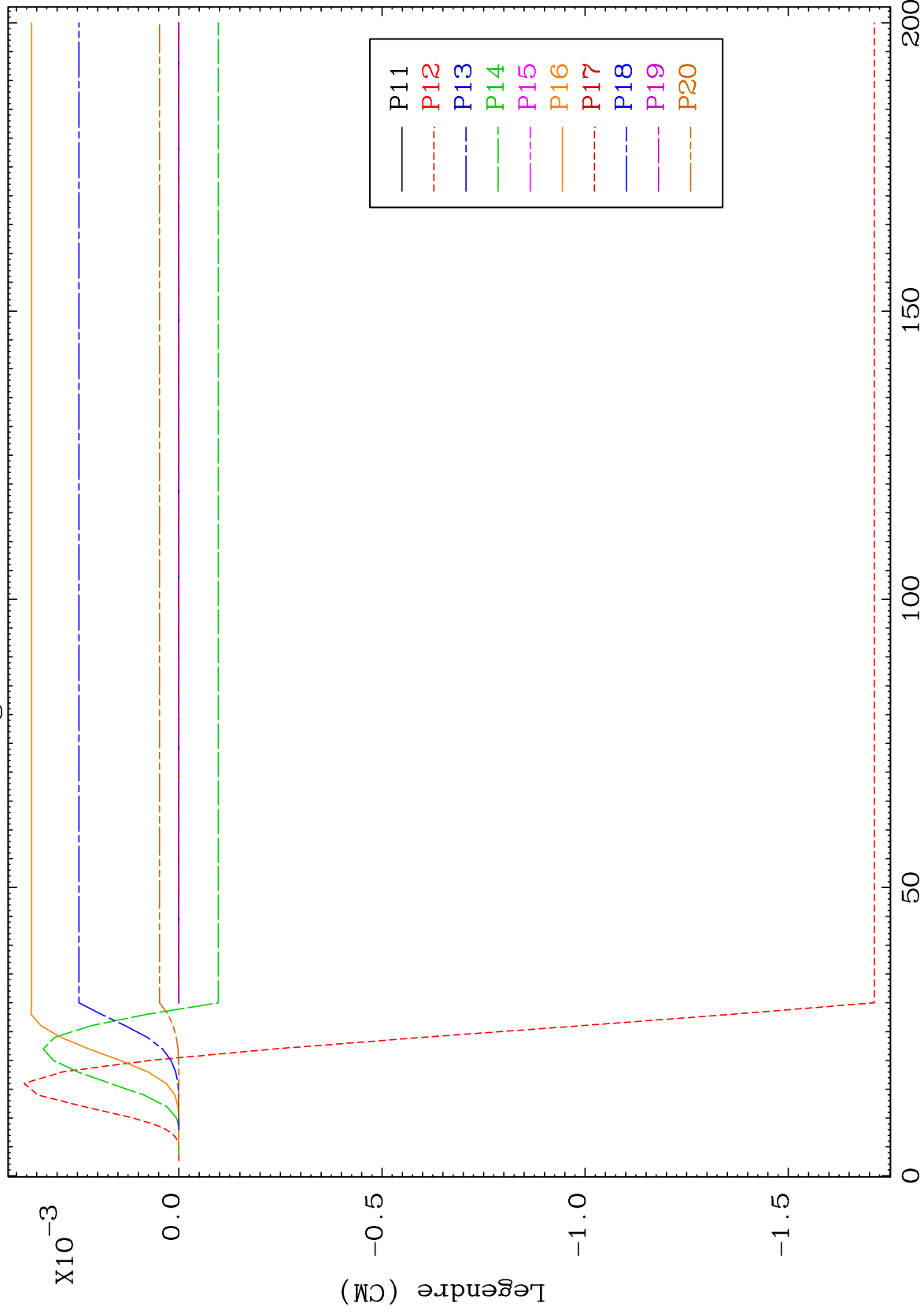


64

MAT 7243

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

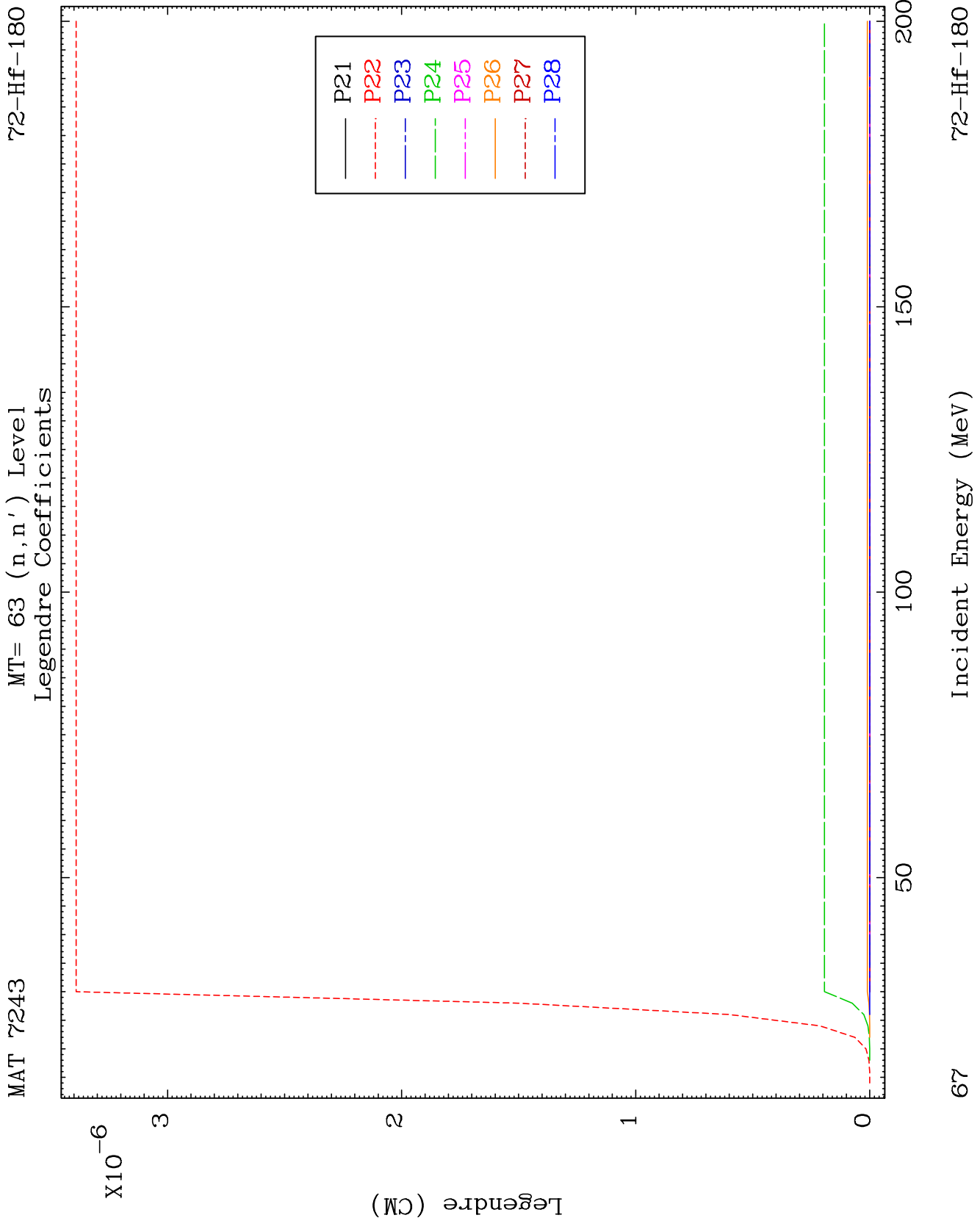
72-Hf-180

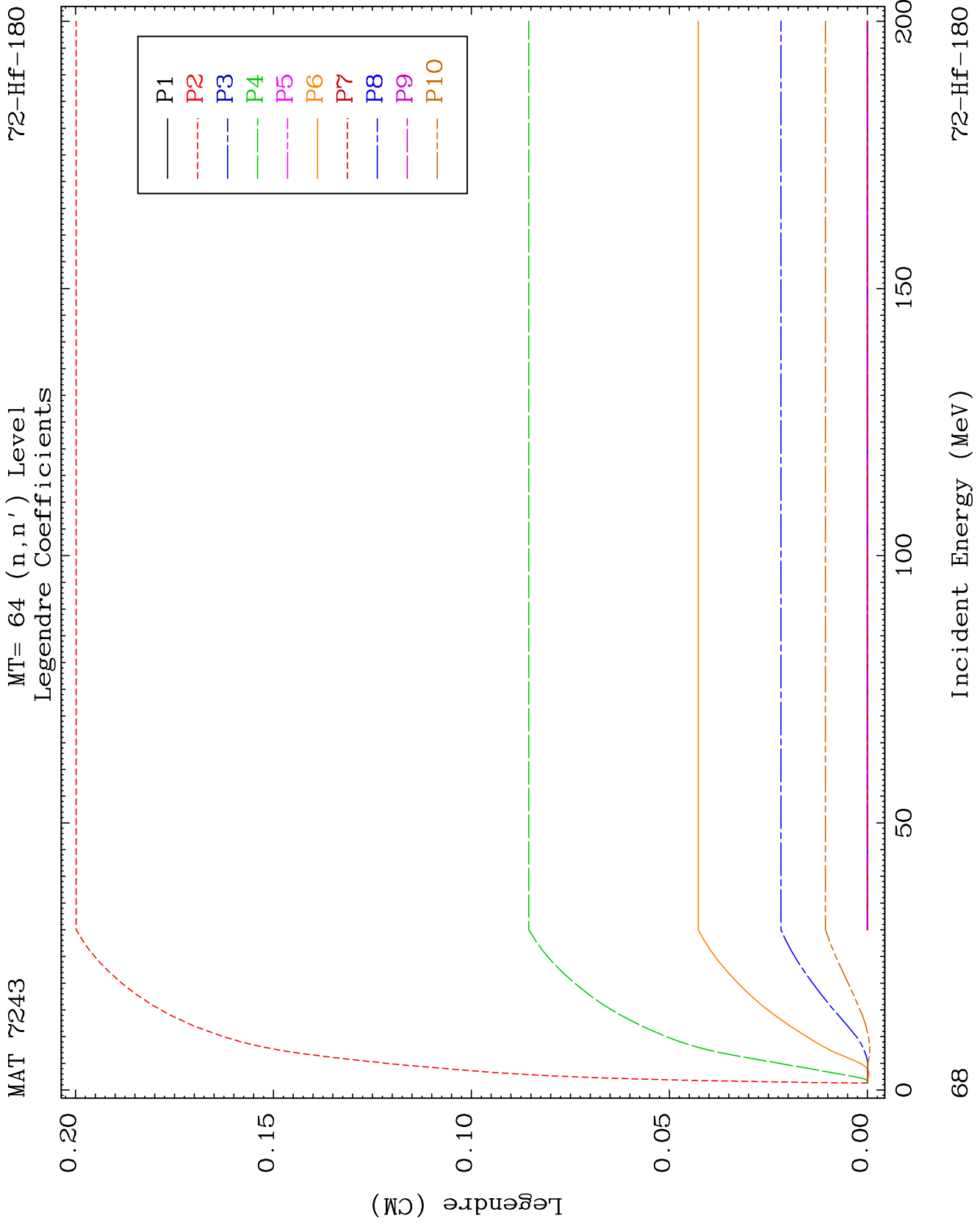


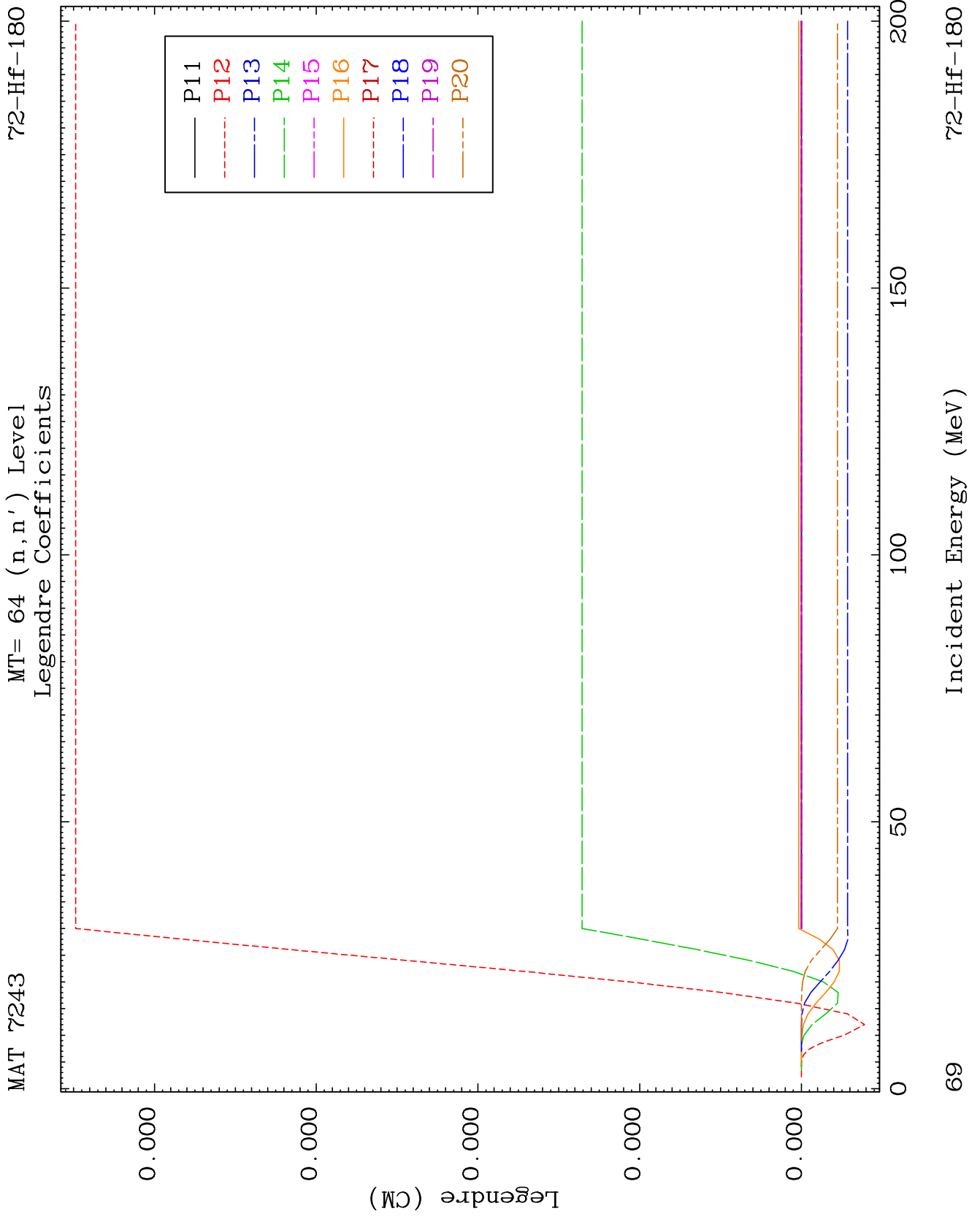
66

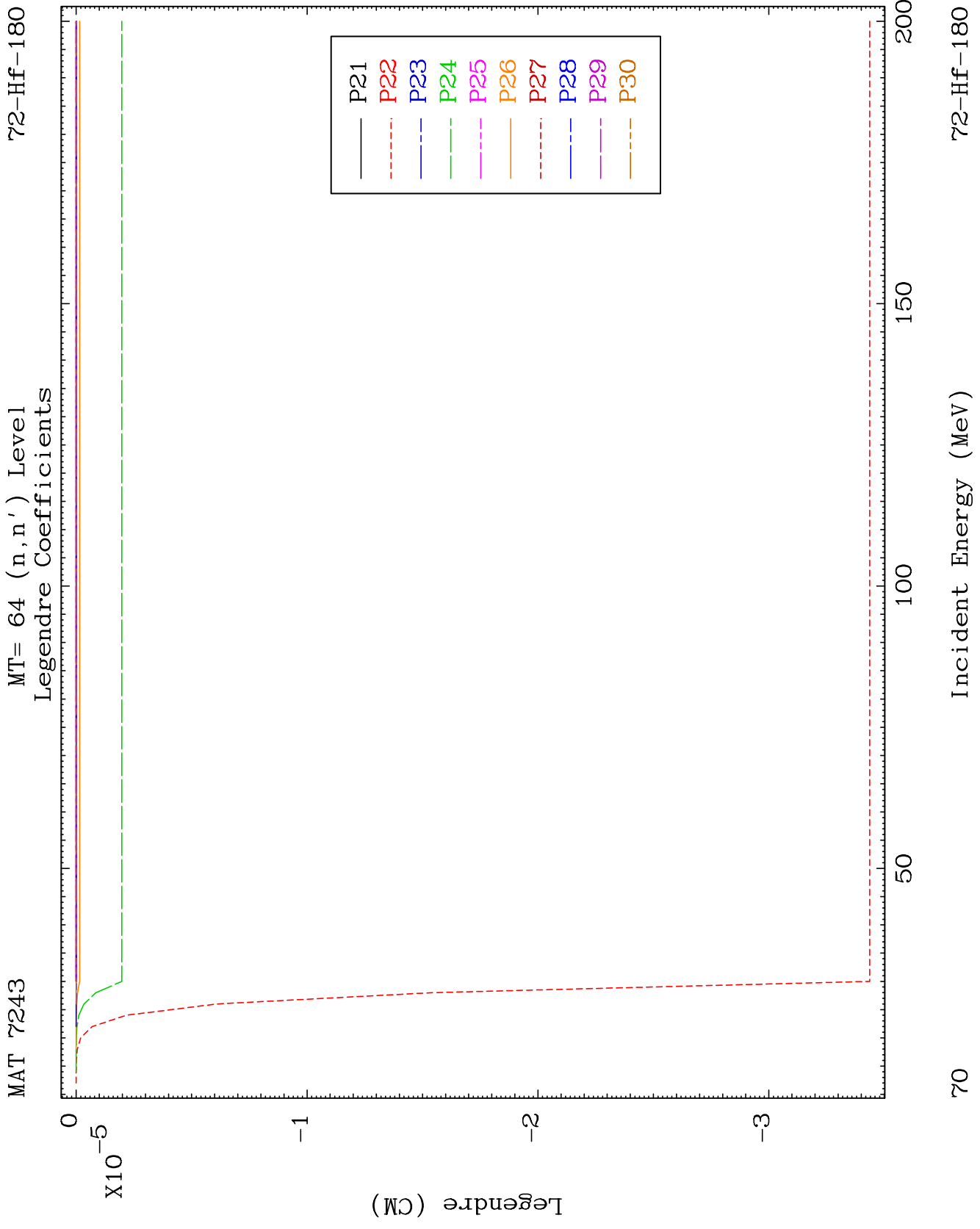
Incident Energy (MeV)

72-Hf-180





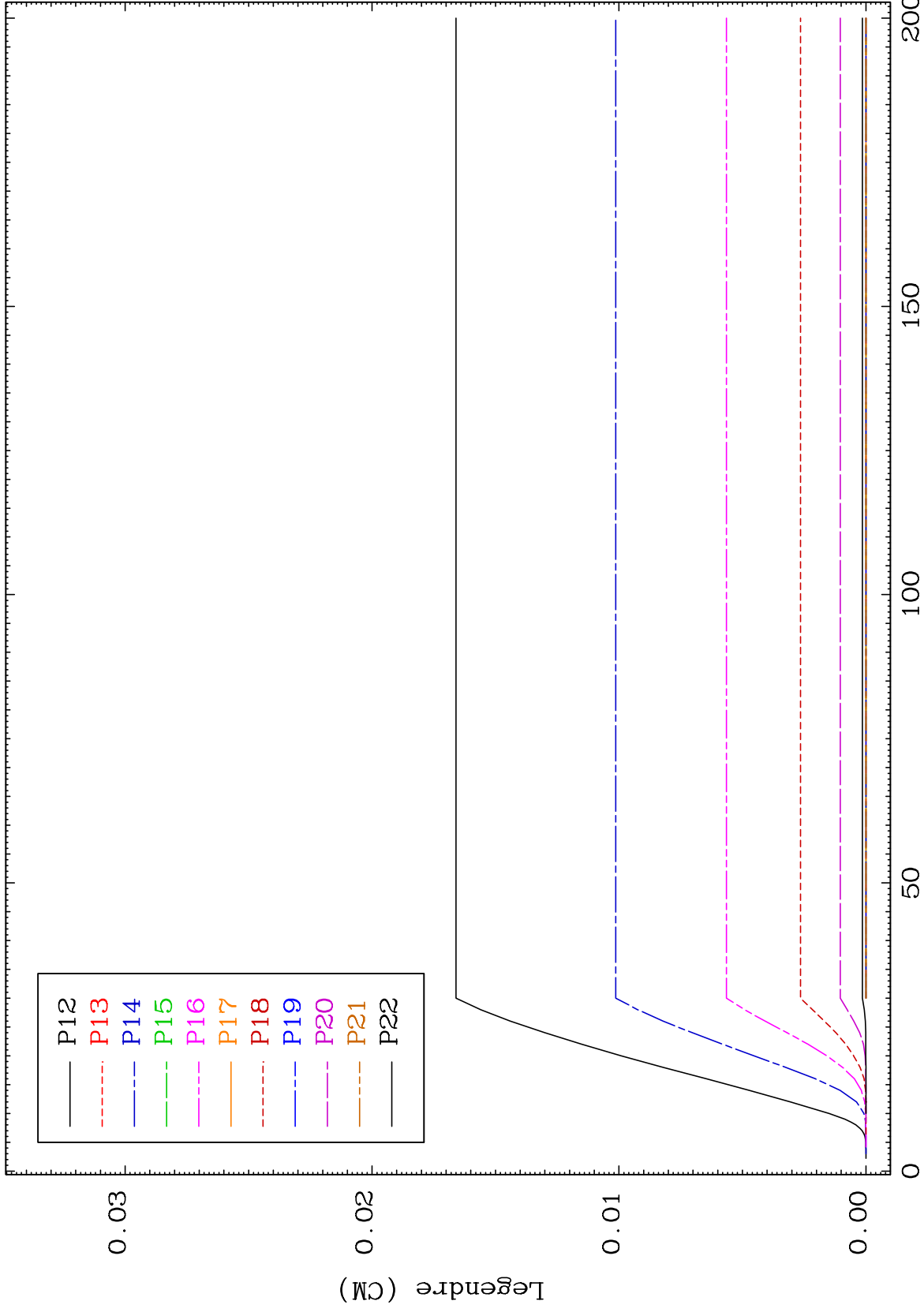




MAT 7243

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

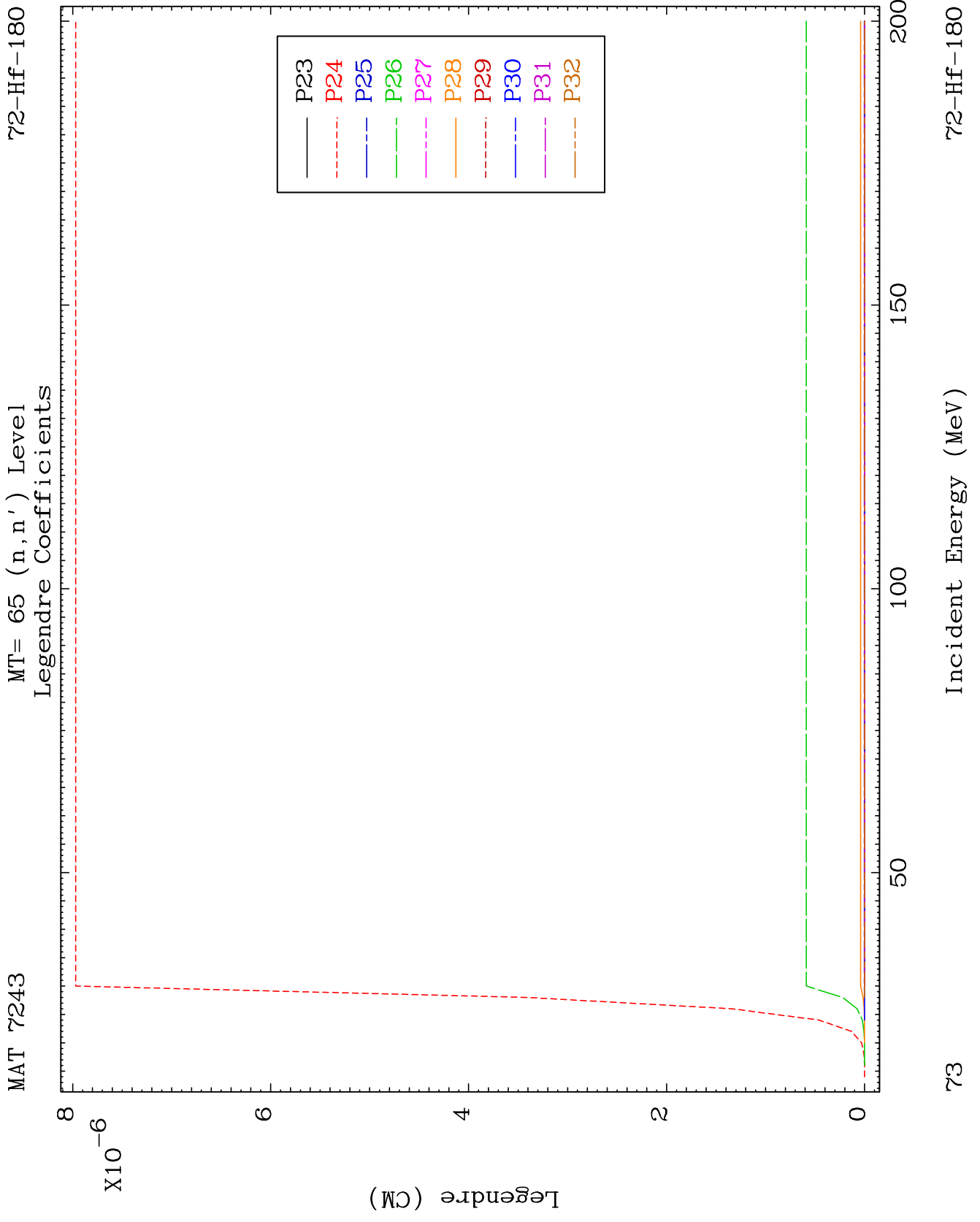
72-Hf-180



72

Incident Energy (MeV)

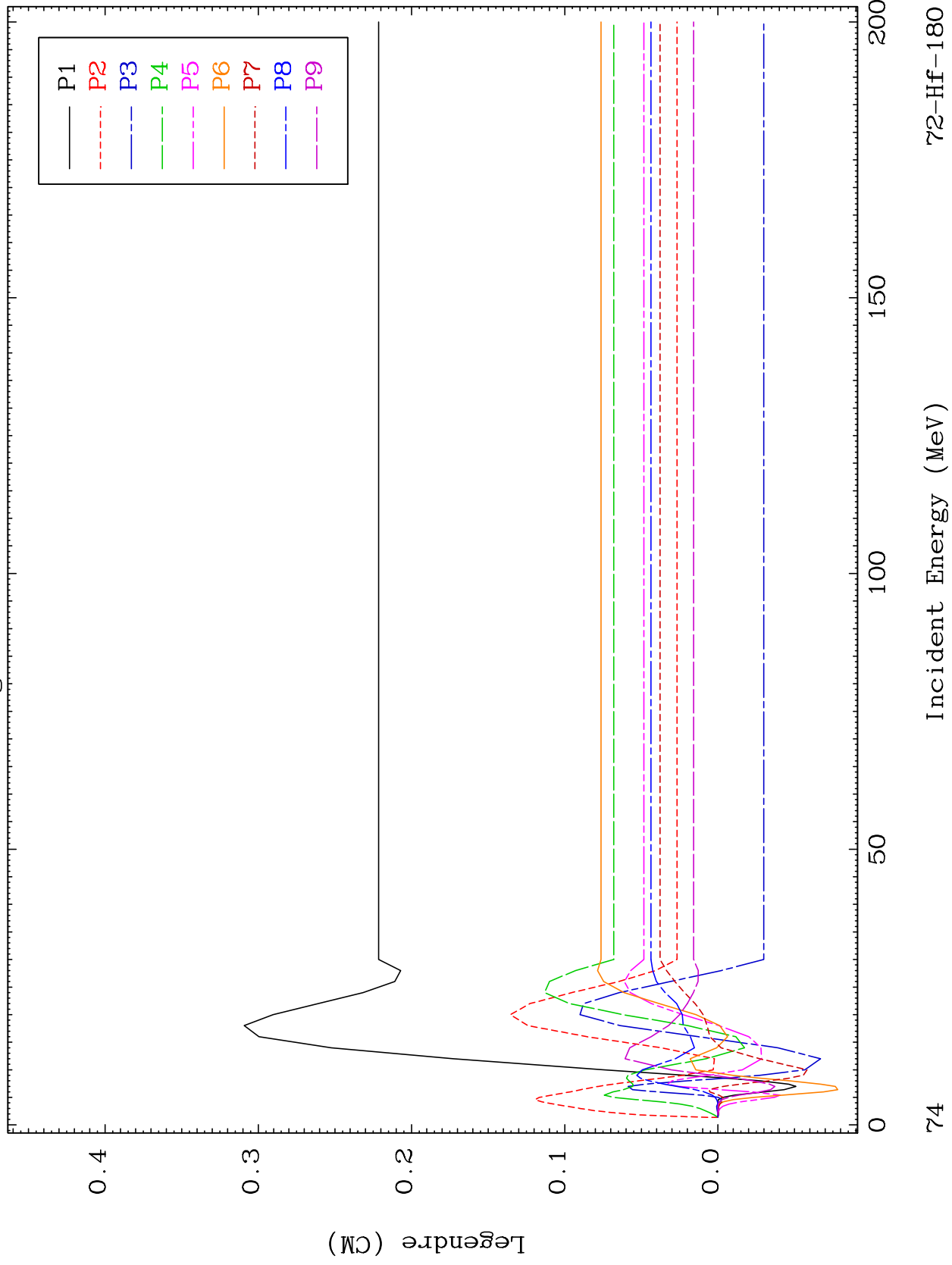
72-Hf-180



MAT 7243

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

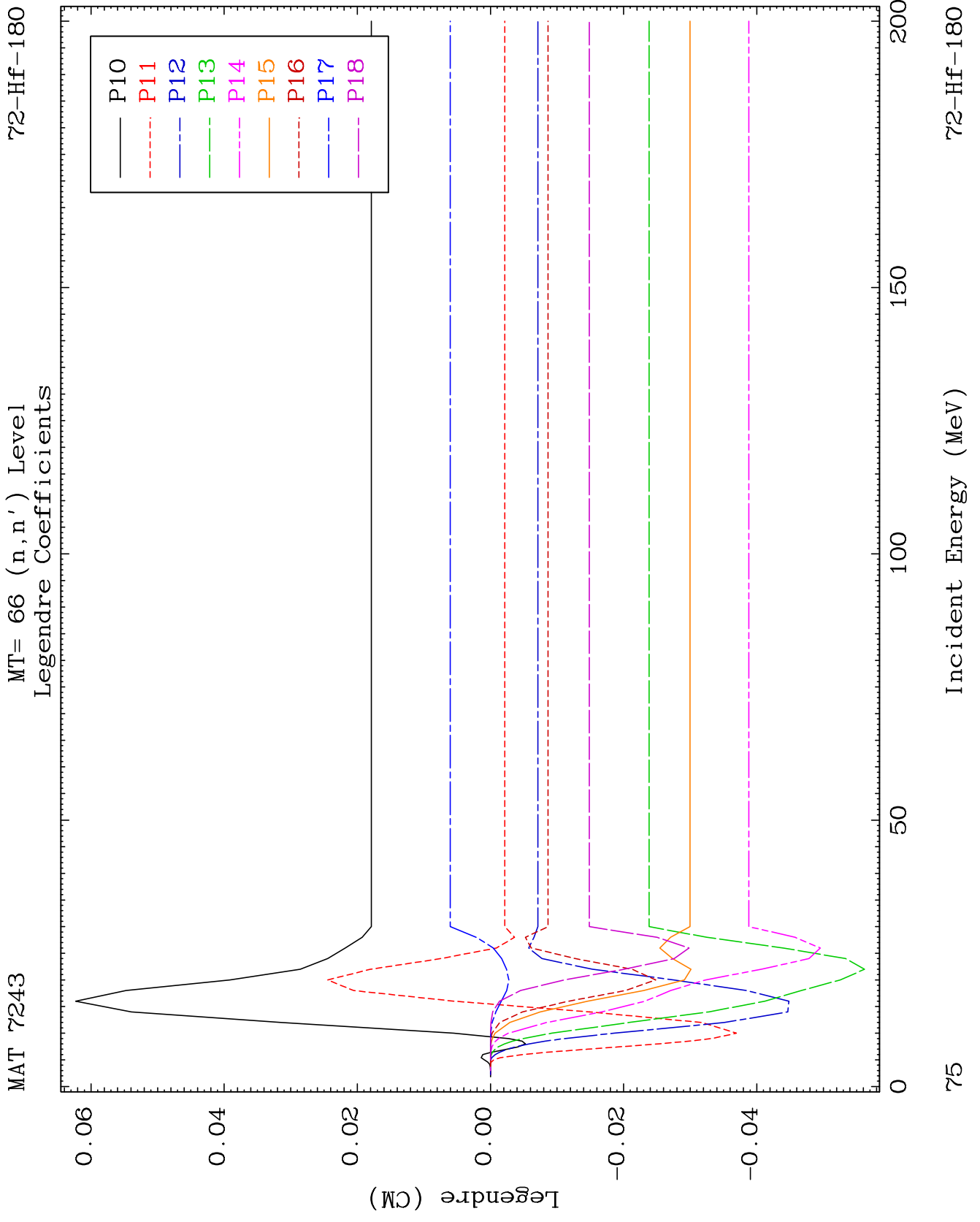
72-Hf-180



74

Incident Energy (MeV)

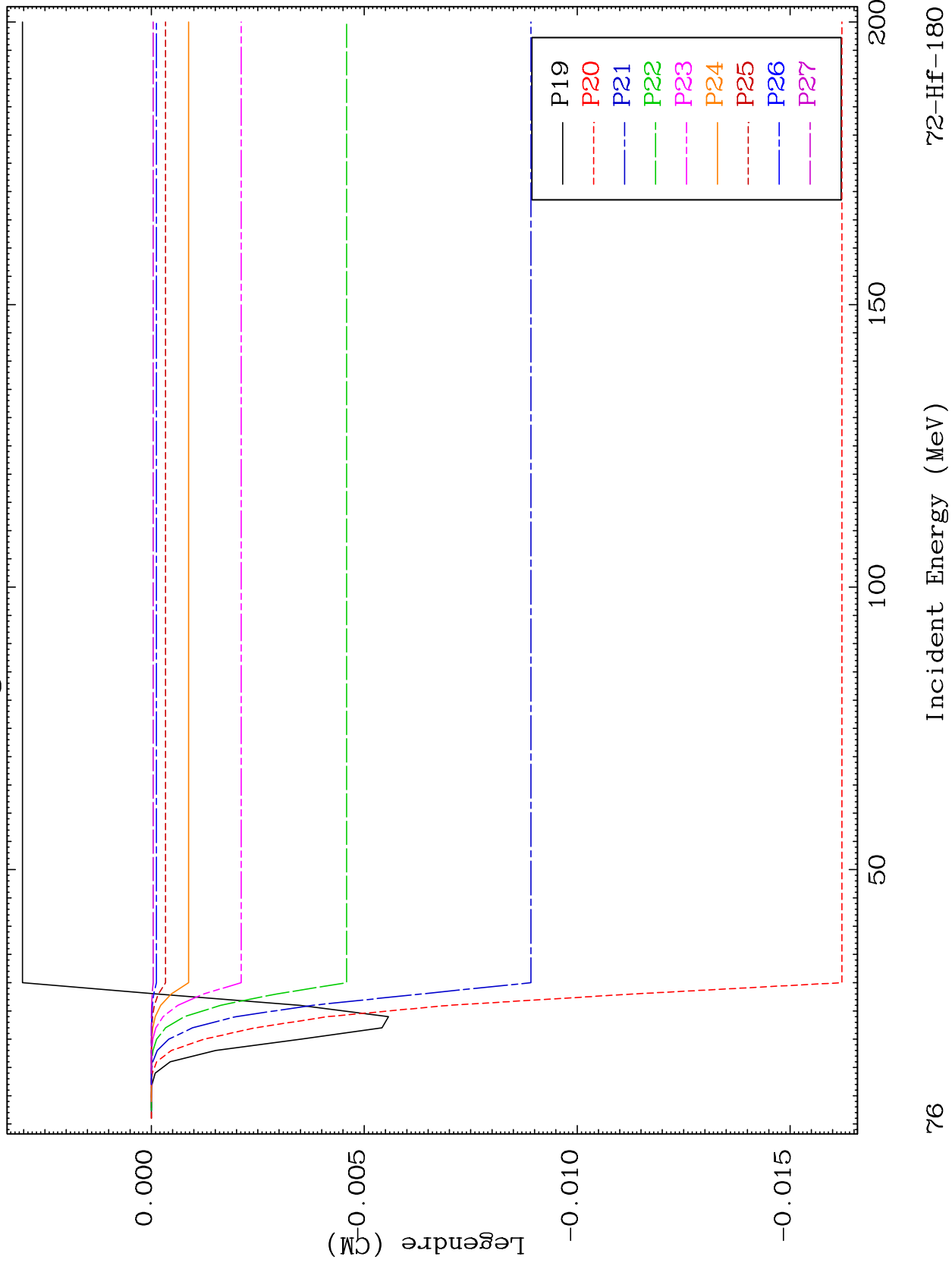
72-Hf-180

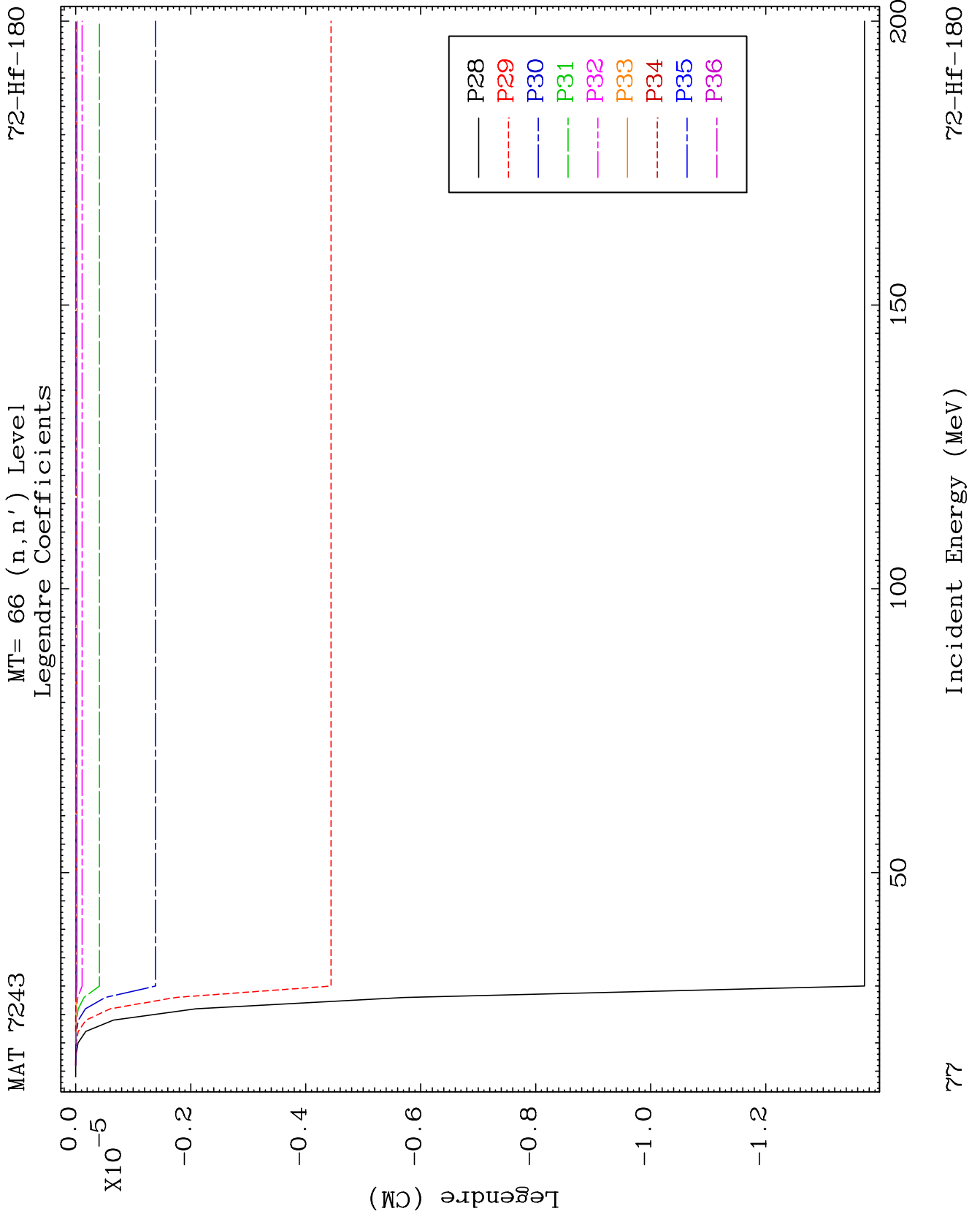


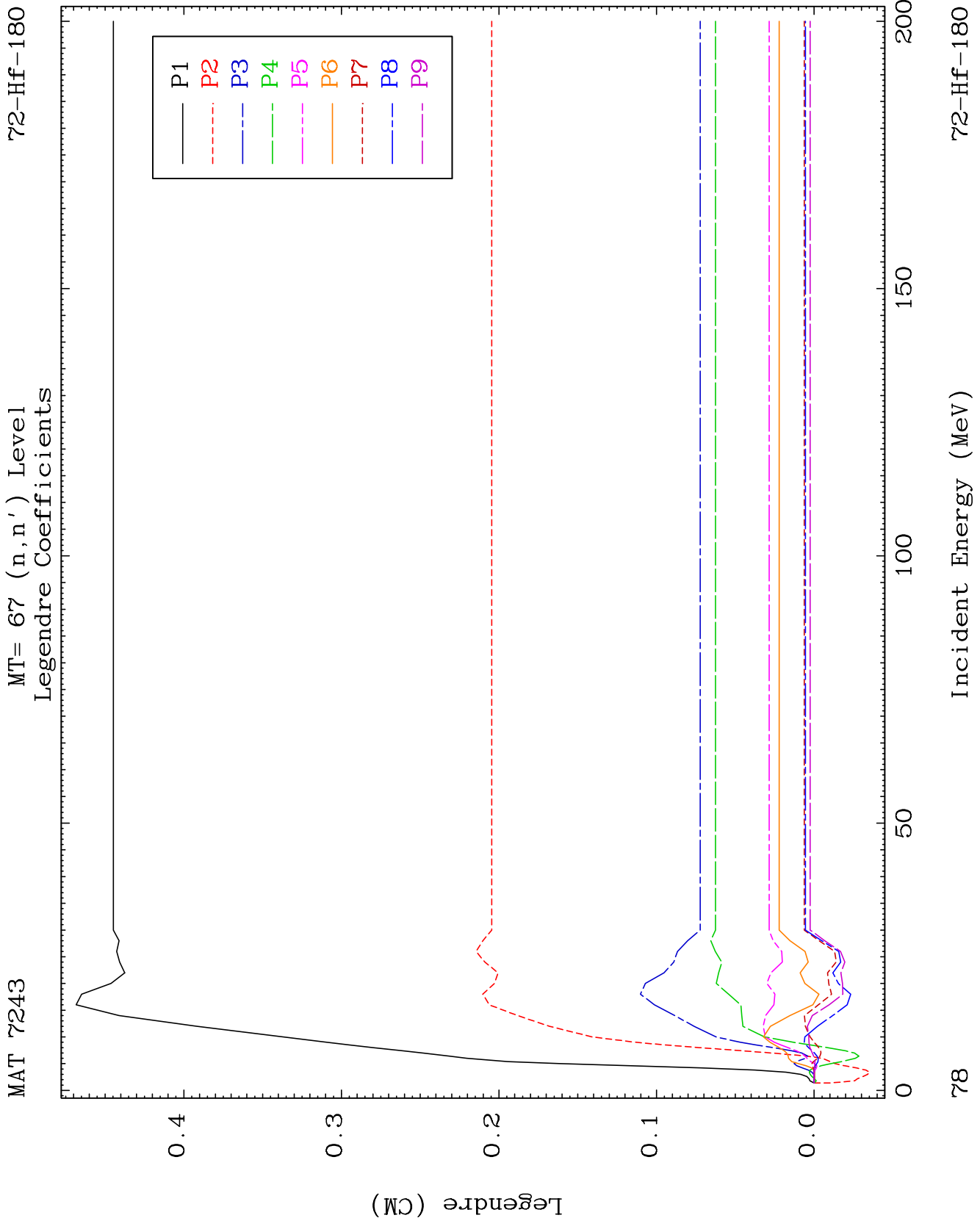
MAT 7243

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

72-Hf-180



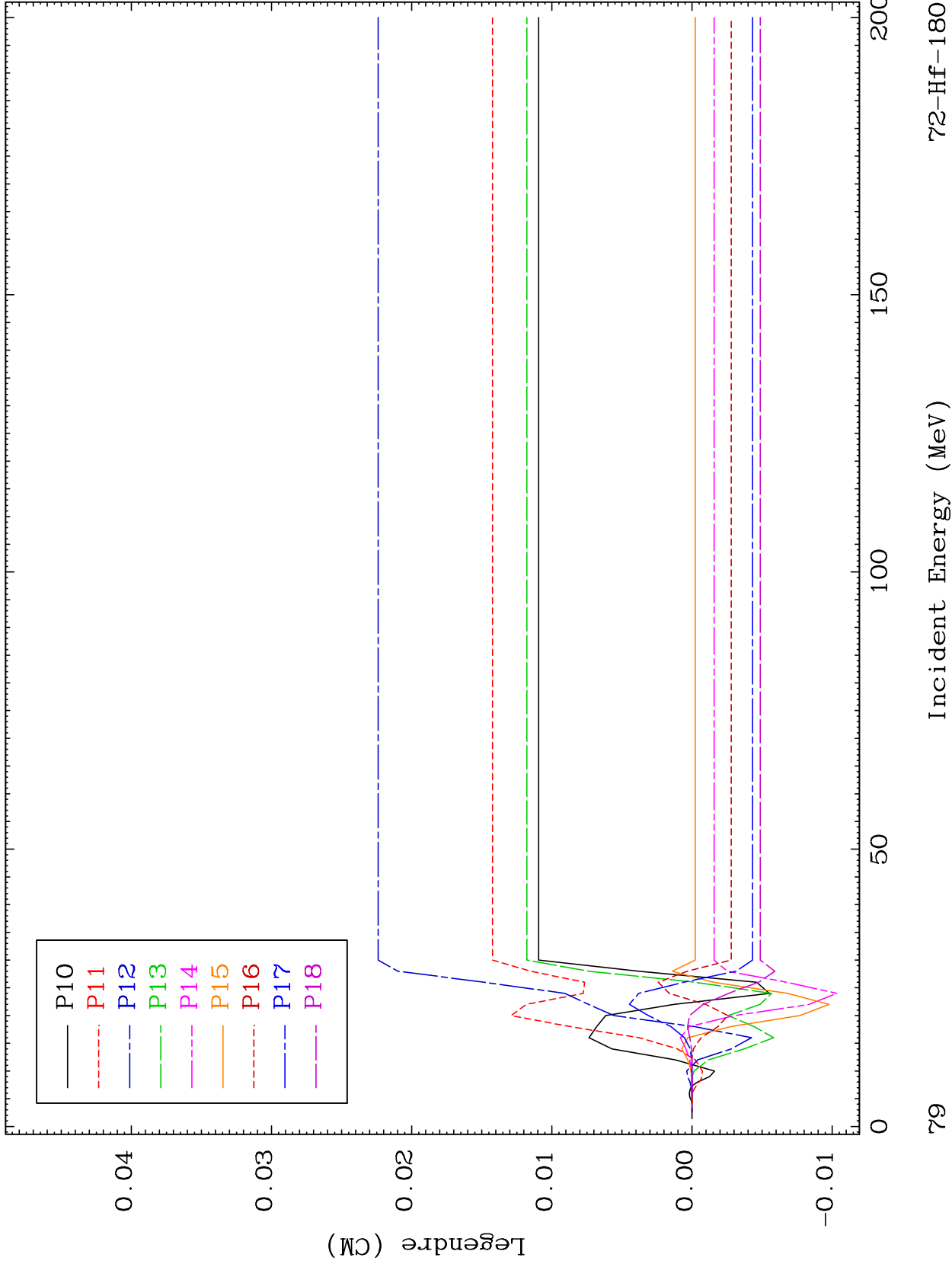




MAT 7243

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

72-Hf-180



79

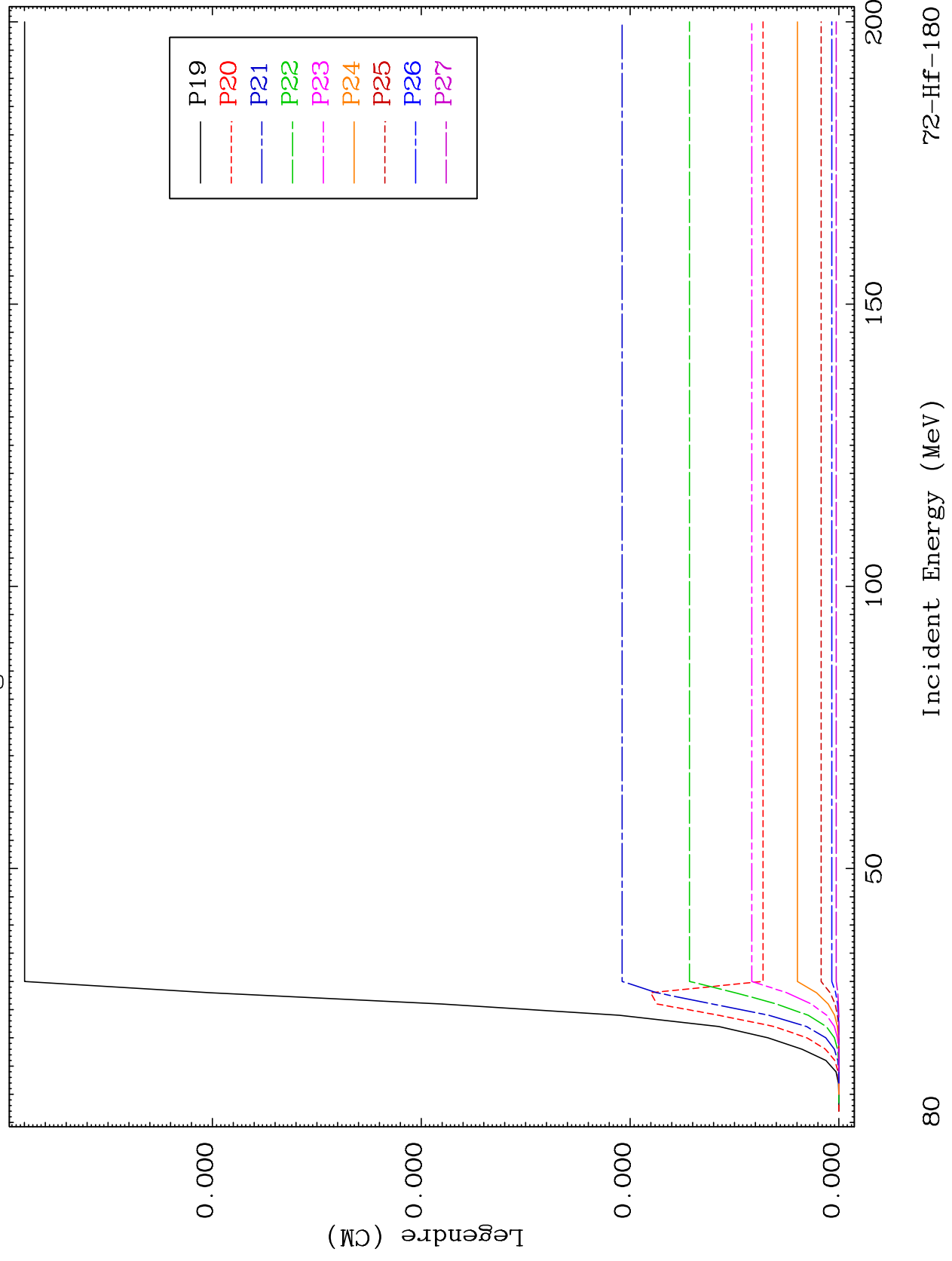
Incident Energy (MeV)

72-Hf-180

MAT 7243

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

72-Hf-180



80

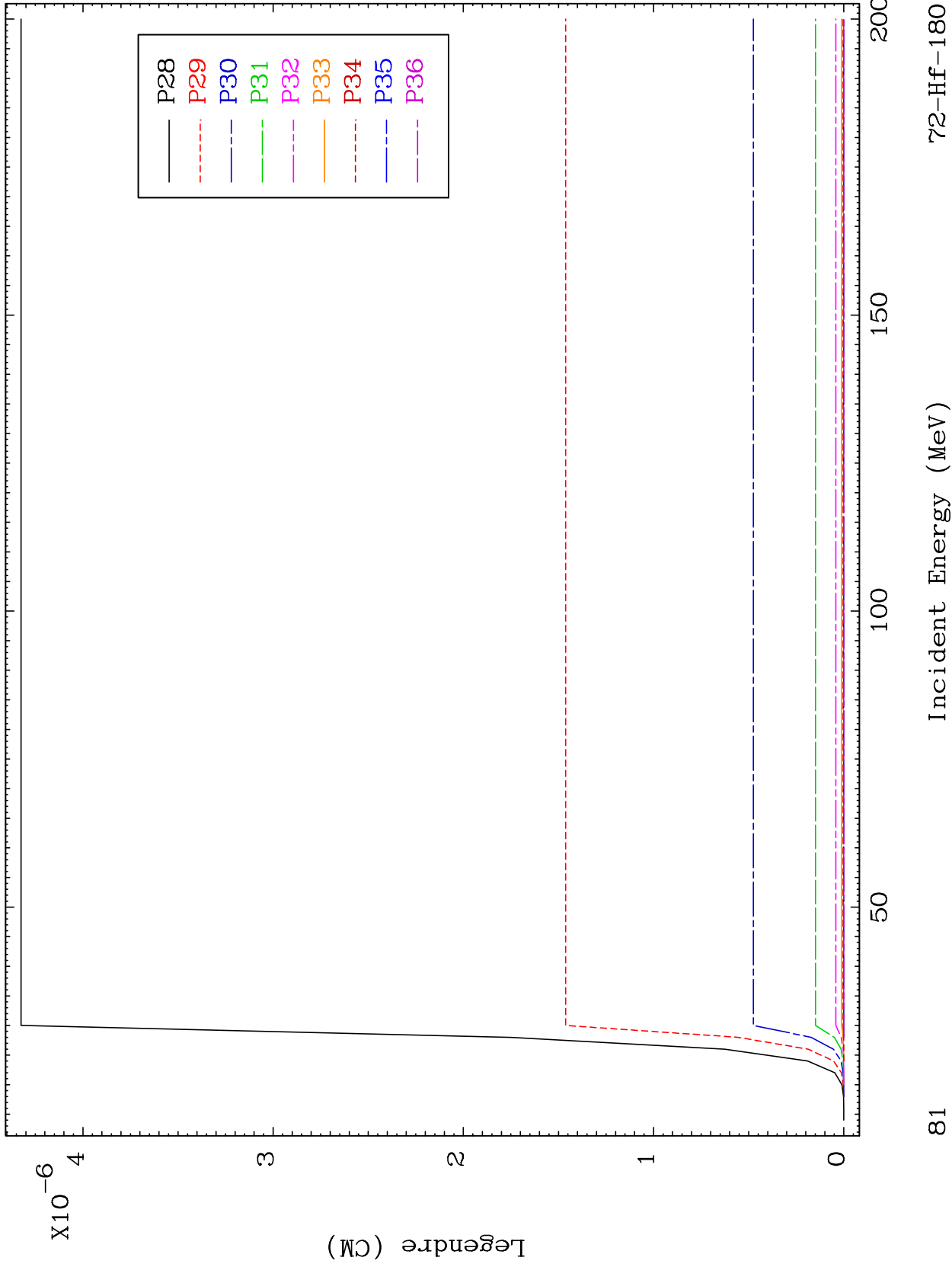
Incident Energy (MeV)

72-Hf-180

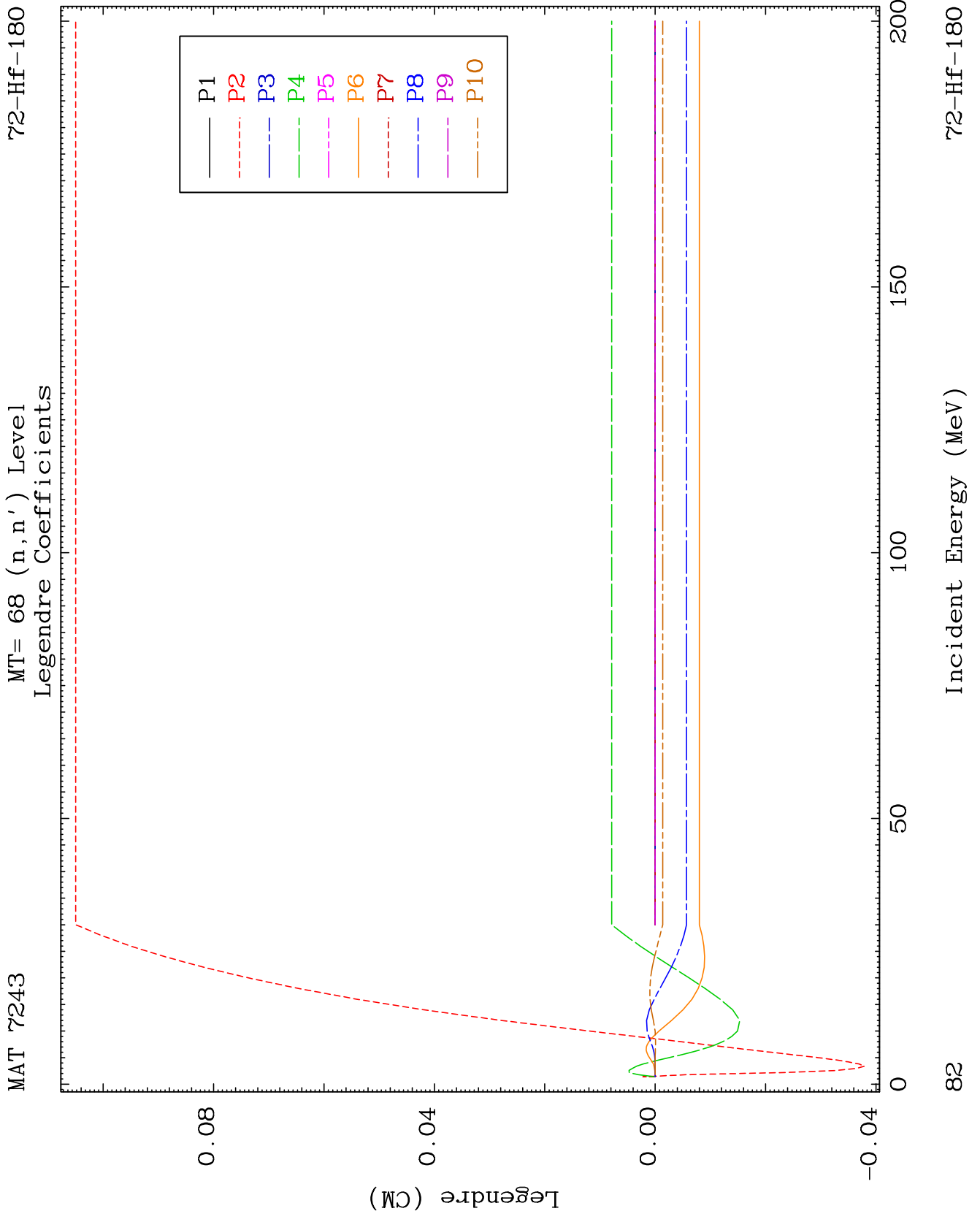
MAT 7243

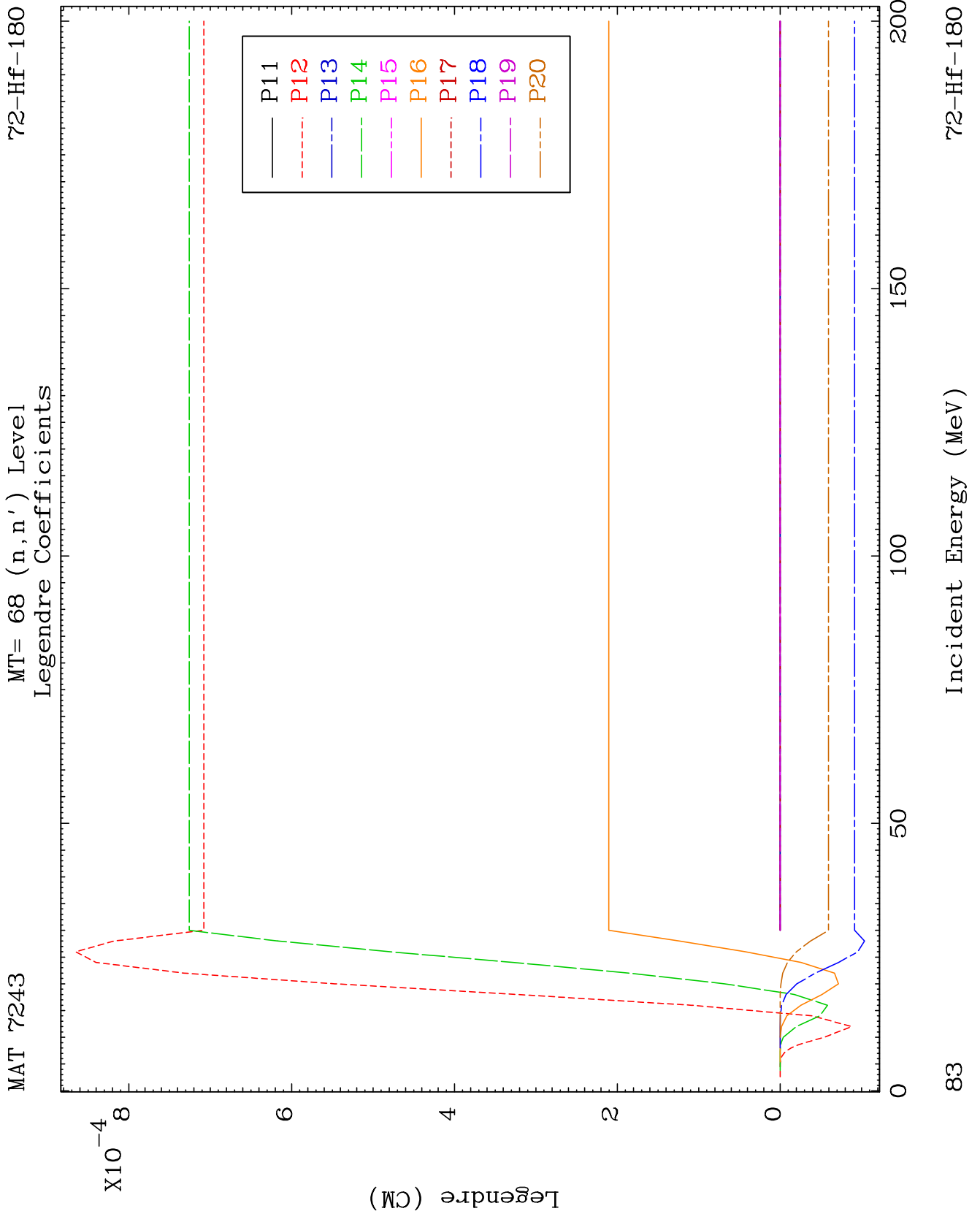
MT= 67 (n,n') Level
Legendre Coefficients

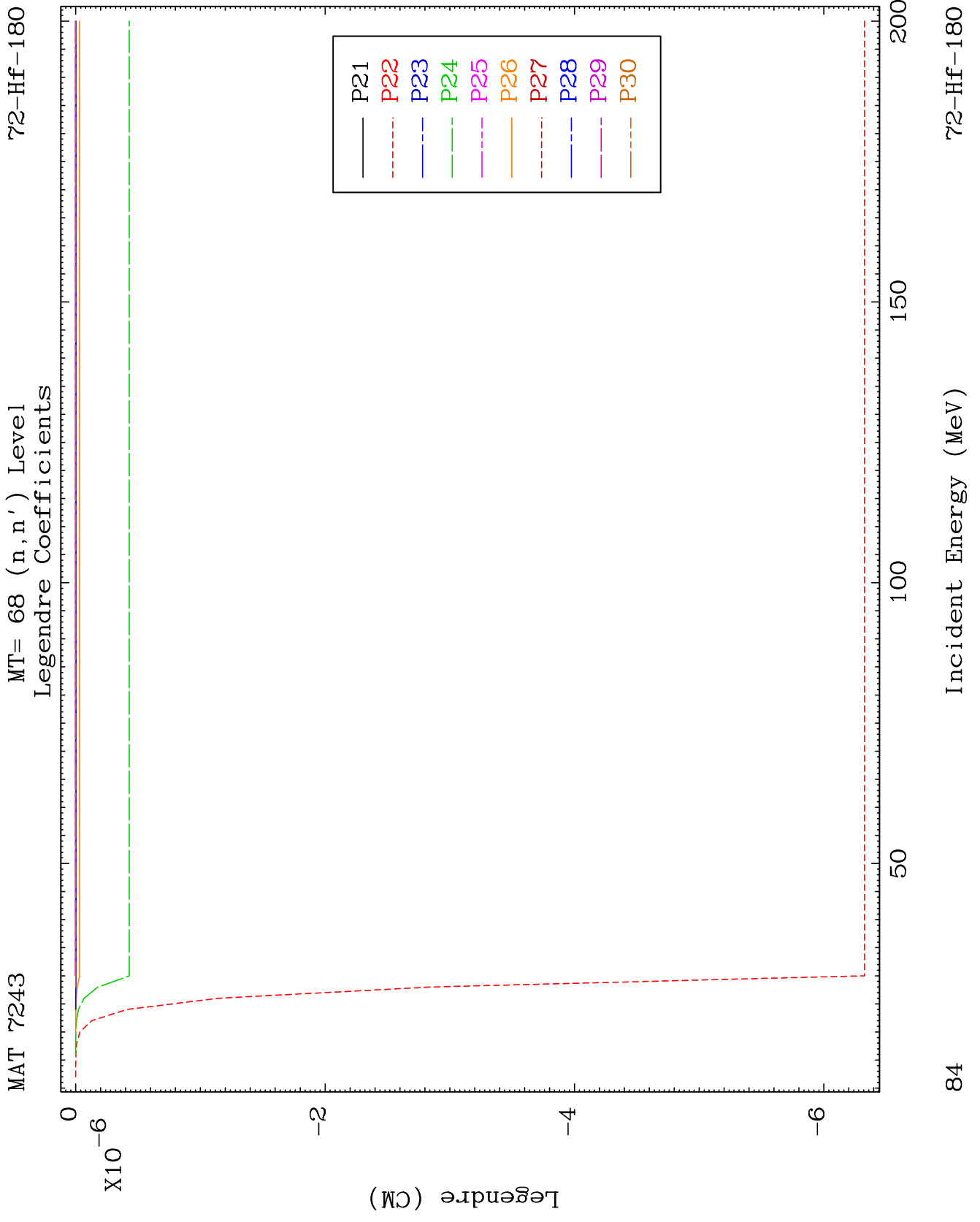
72-Hf-180

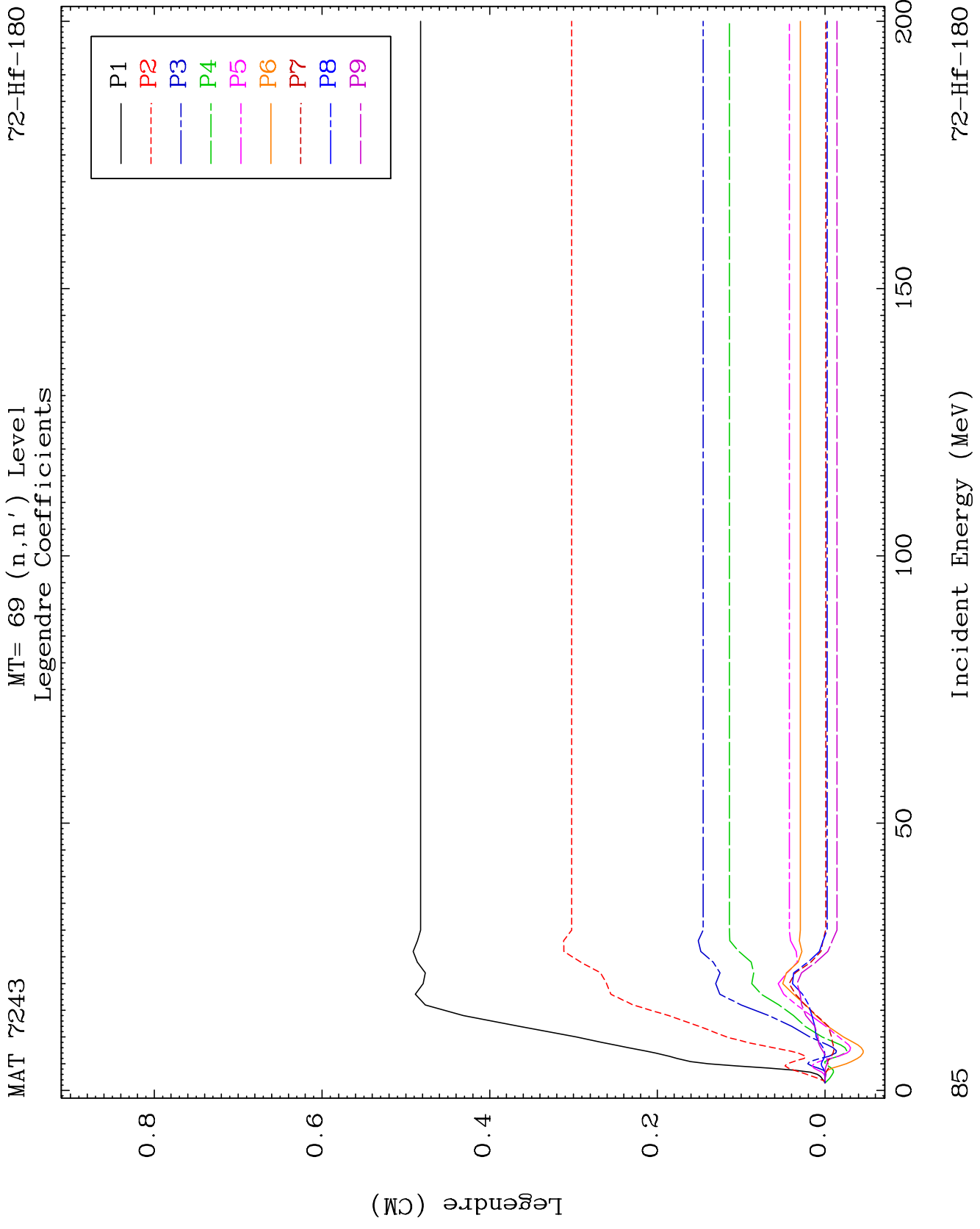


81





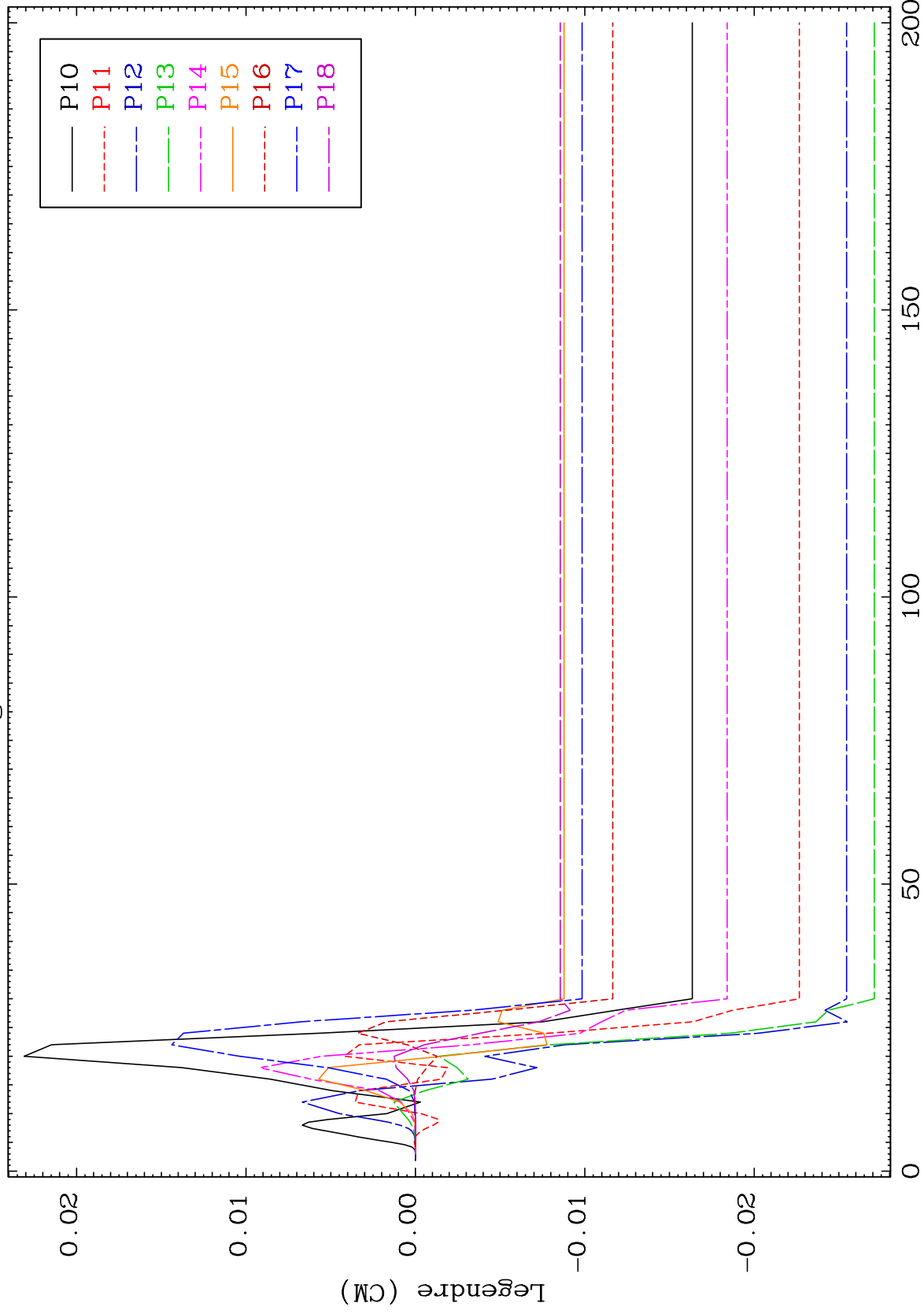




MAT 7243

MT= 69 (n,n') Level
Legendre Coefficients

72-Hf-180



86

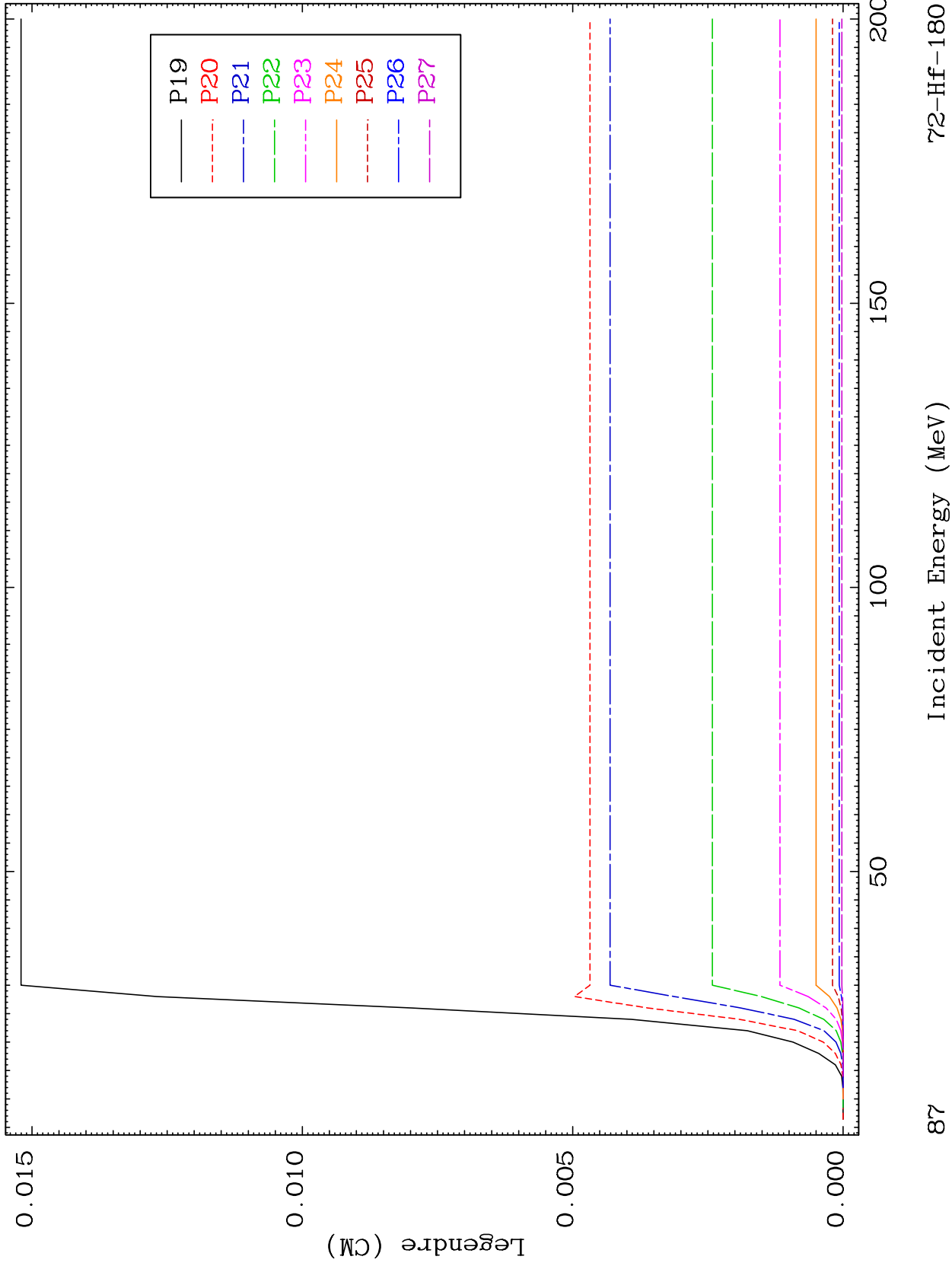
Incident Energy (MeV)

72-Hf-180

MAT 7243

MT= 69 (n,n') Level
Legendre Coefficients

72-Hf-180



87

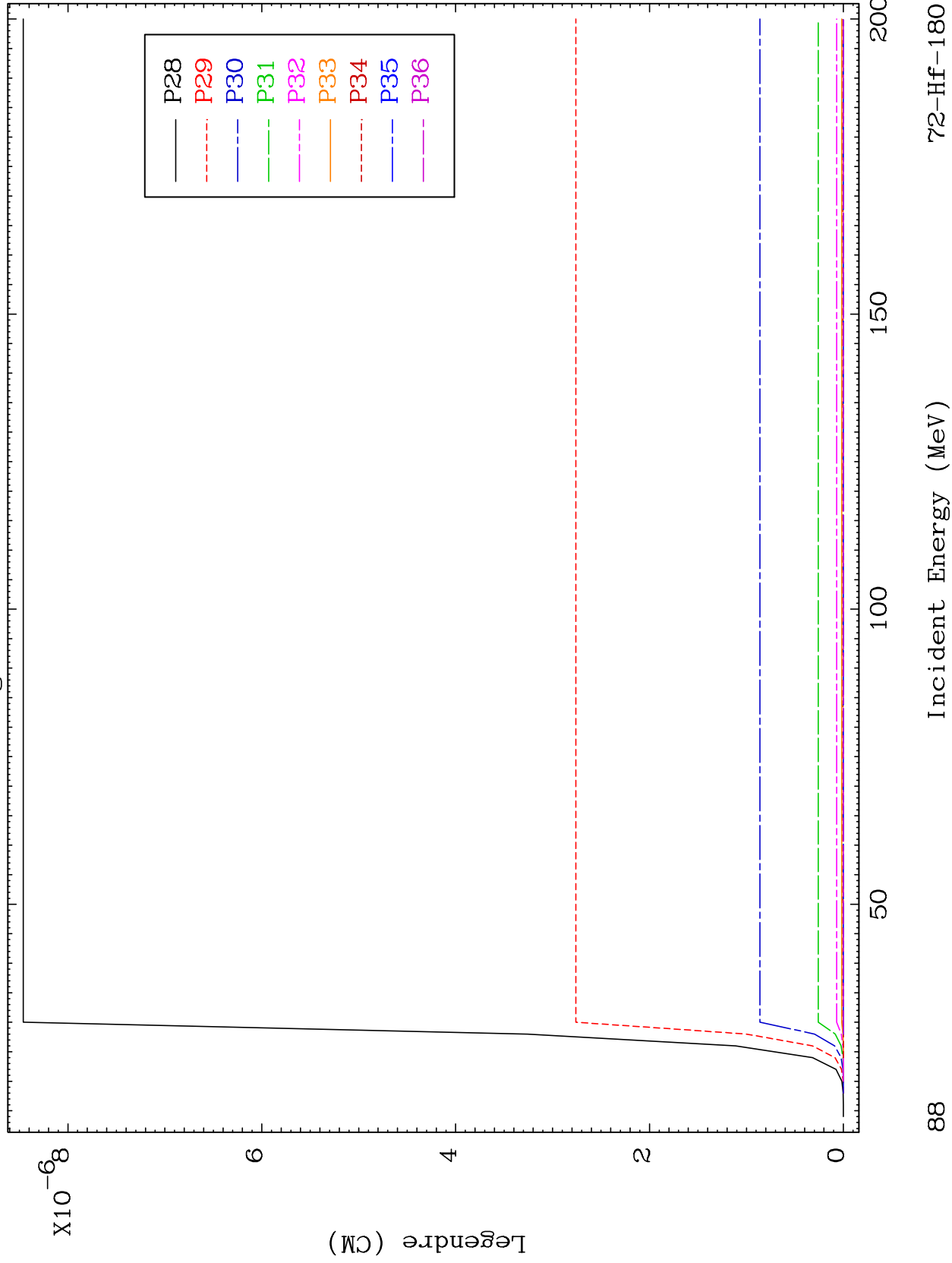
Incident Energy (MeV)

72-Hf-180

MAT 7243

MT= 69 (n,n') Level
Legendre Coefficients

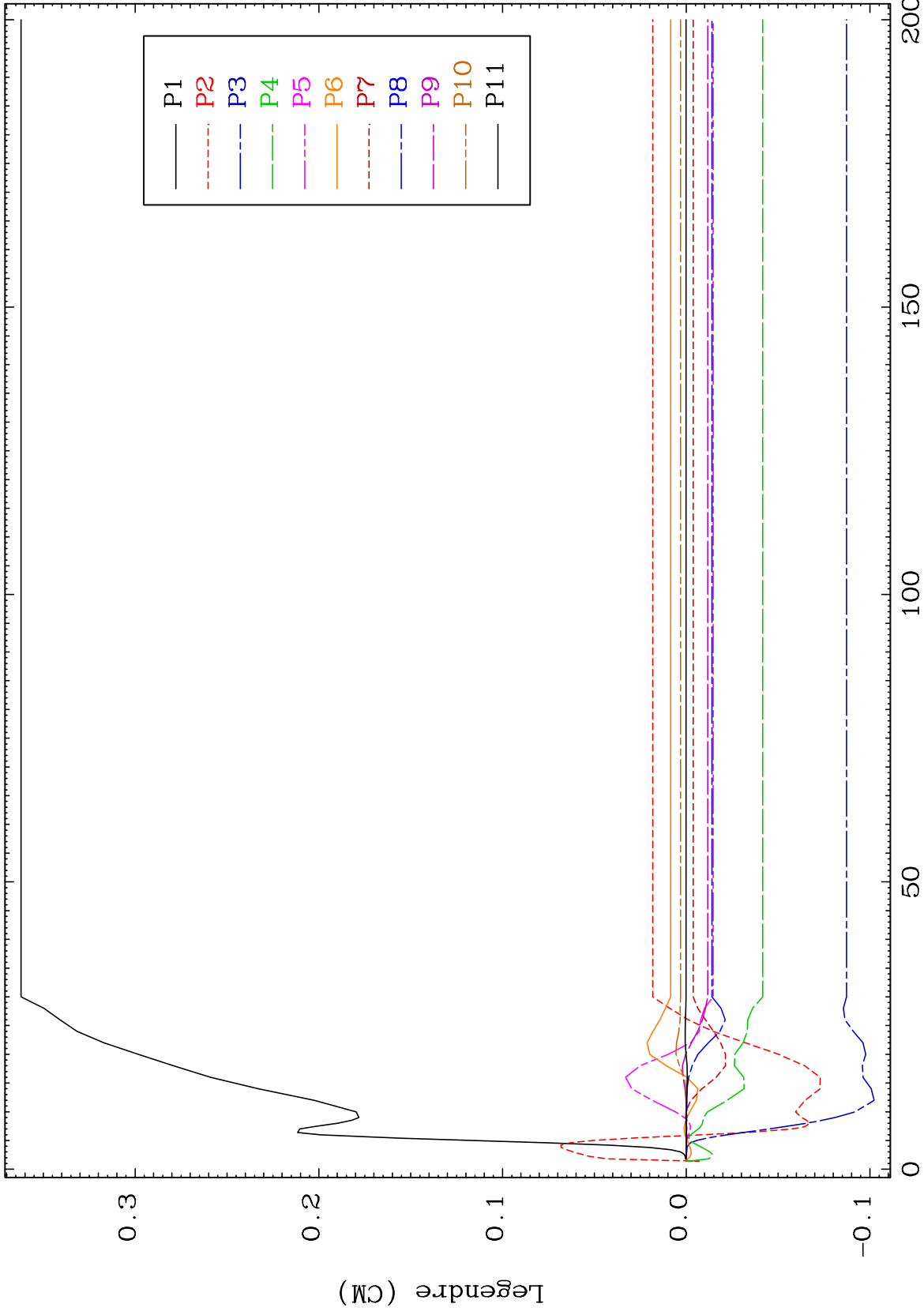
72-Hf-180



MAT 7243

MT= 70 (n,n') Level
Legendre Coefficients

72-Hf-180



89

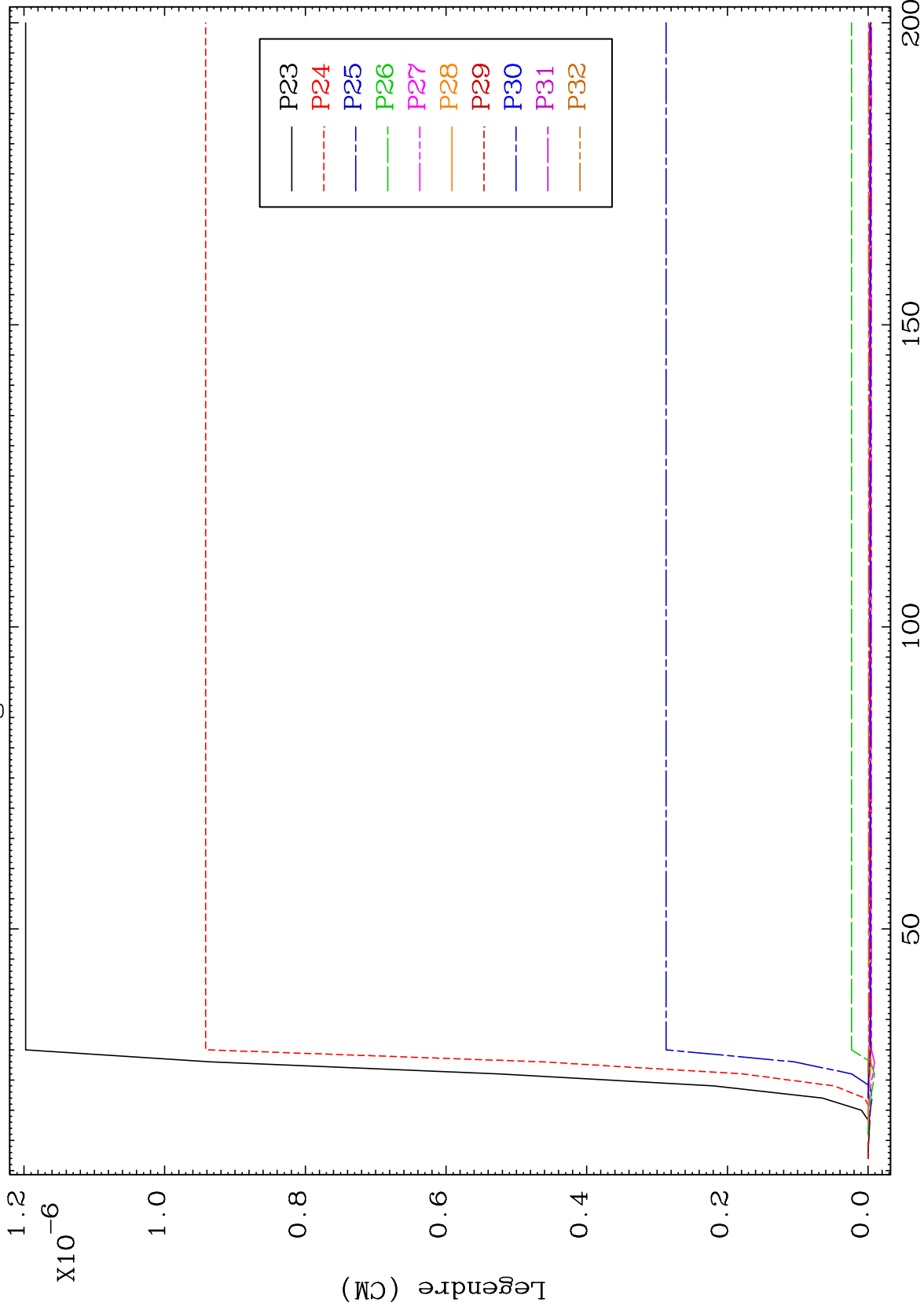
Incident Energy (MeV)

72-Hf-180

MAT 7243

MT= 70 (n,n') Level
Legendre Coefficients

72-Hf-180



91

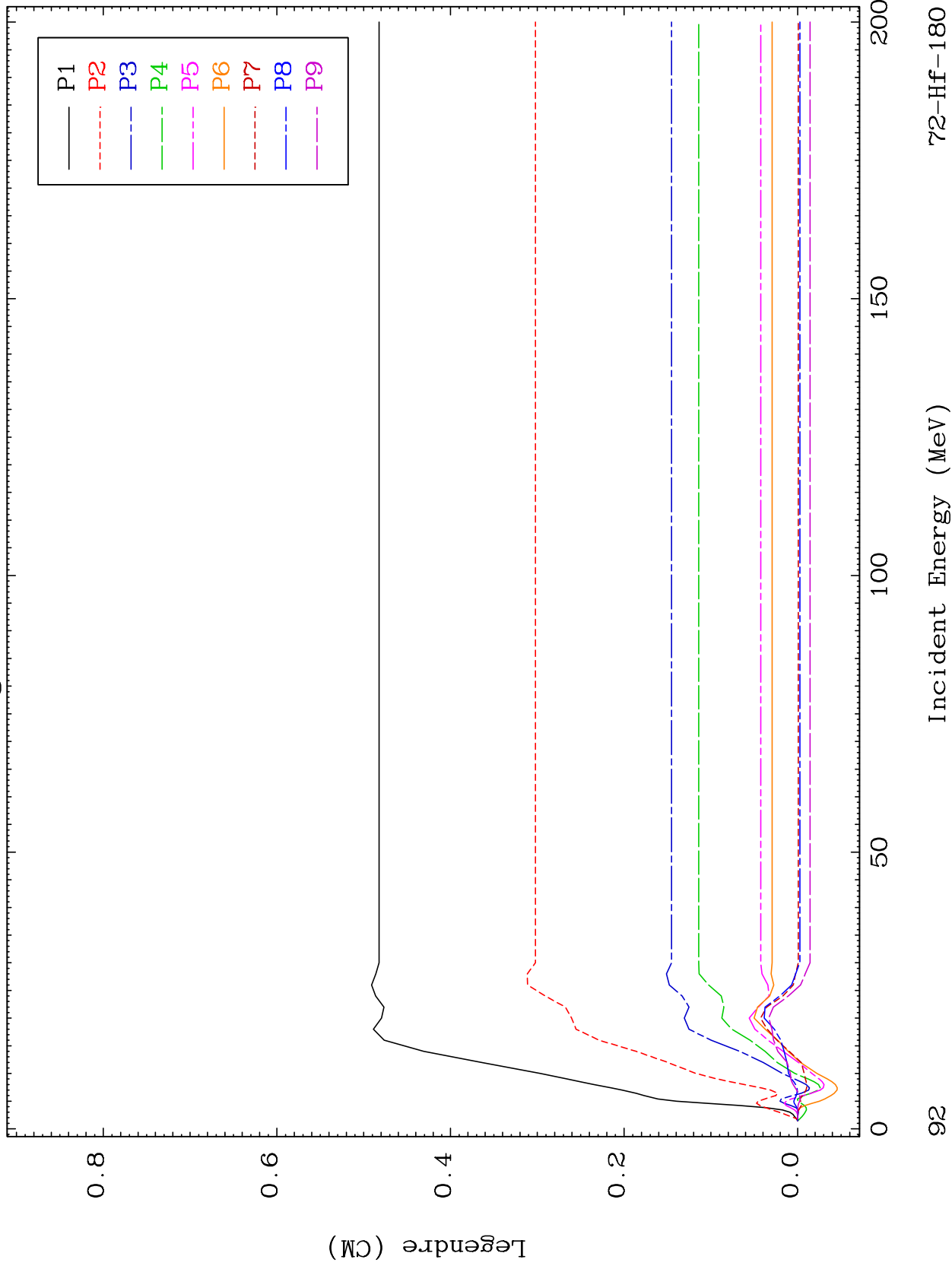
Incident Energy (MeV)

72-Hf-180

MAT 7243

MT= 71 (n,n') Level
Legendre Coefficients

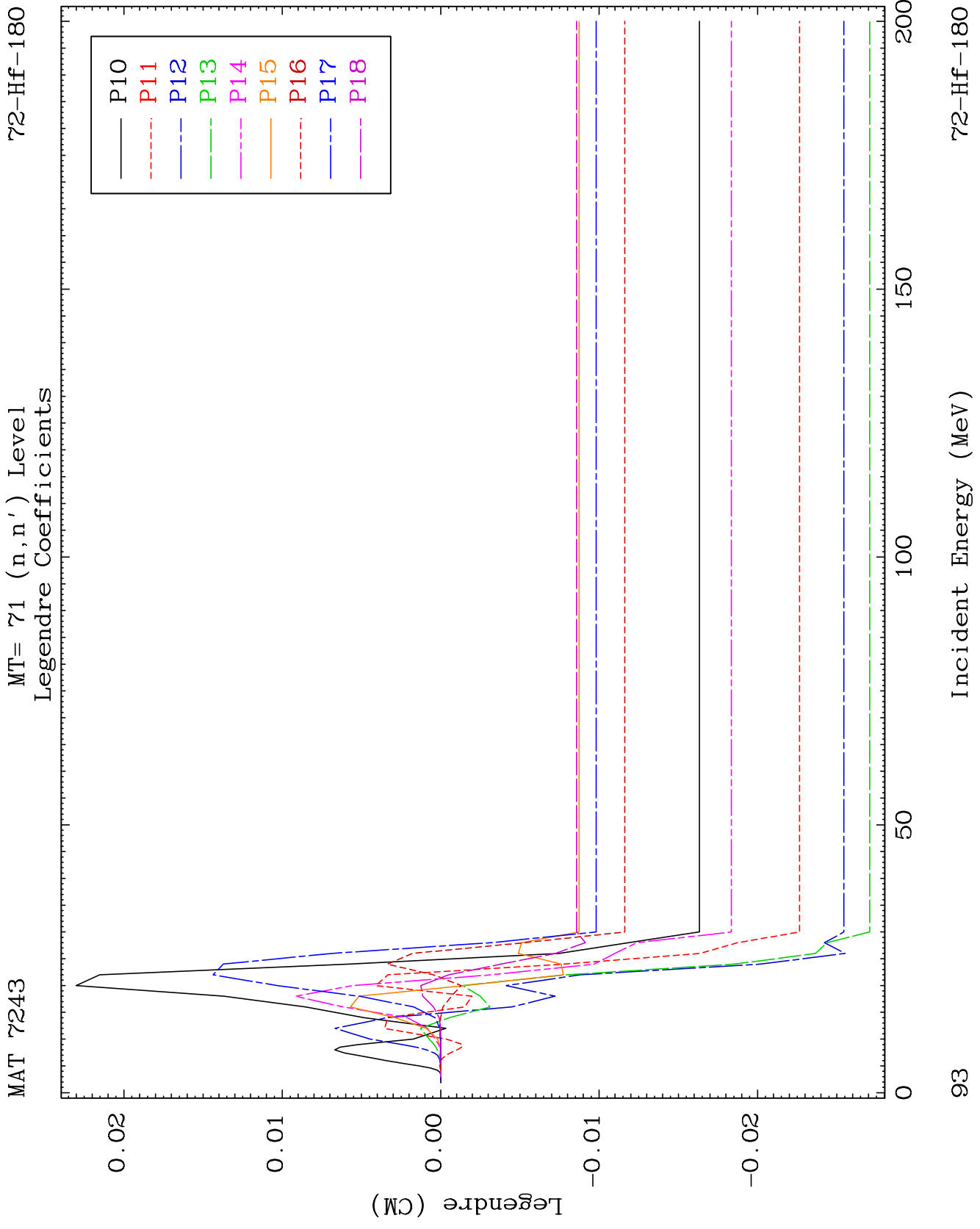
72-Hf-180



72-Hf-180

Incident Energy (MeV)

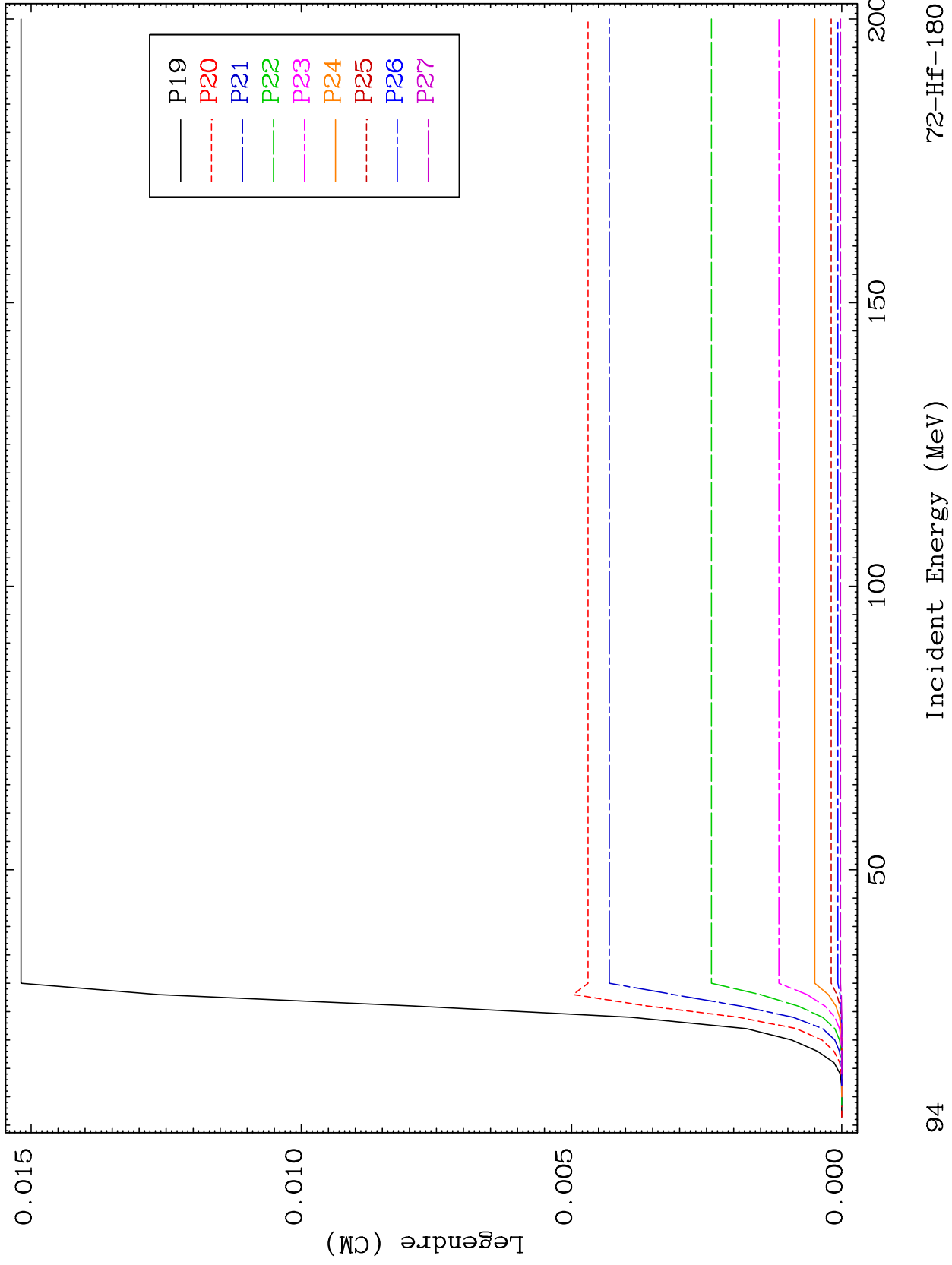
92



MAT 7243

MT= 71 (n,n') Level
Legendre Coefficients

72-Hf-180



94

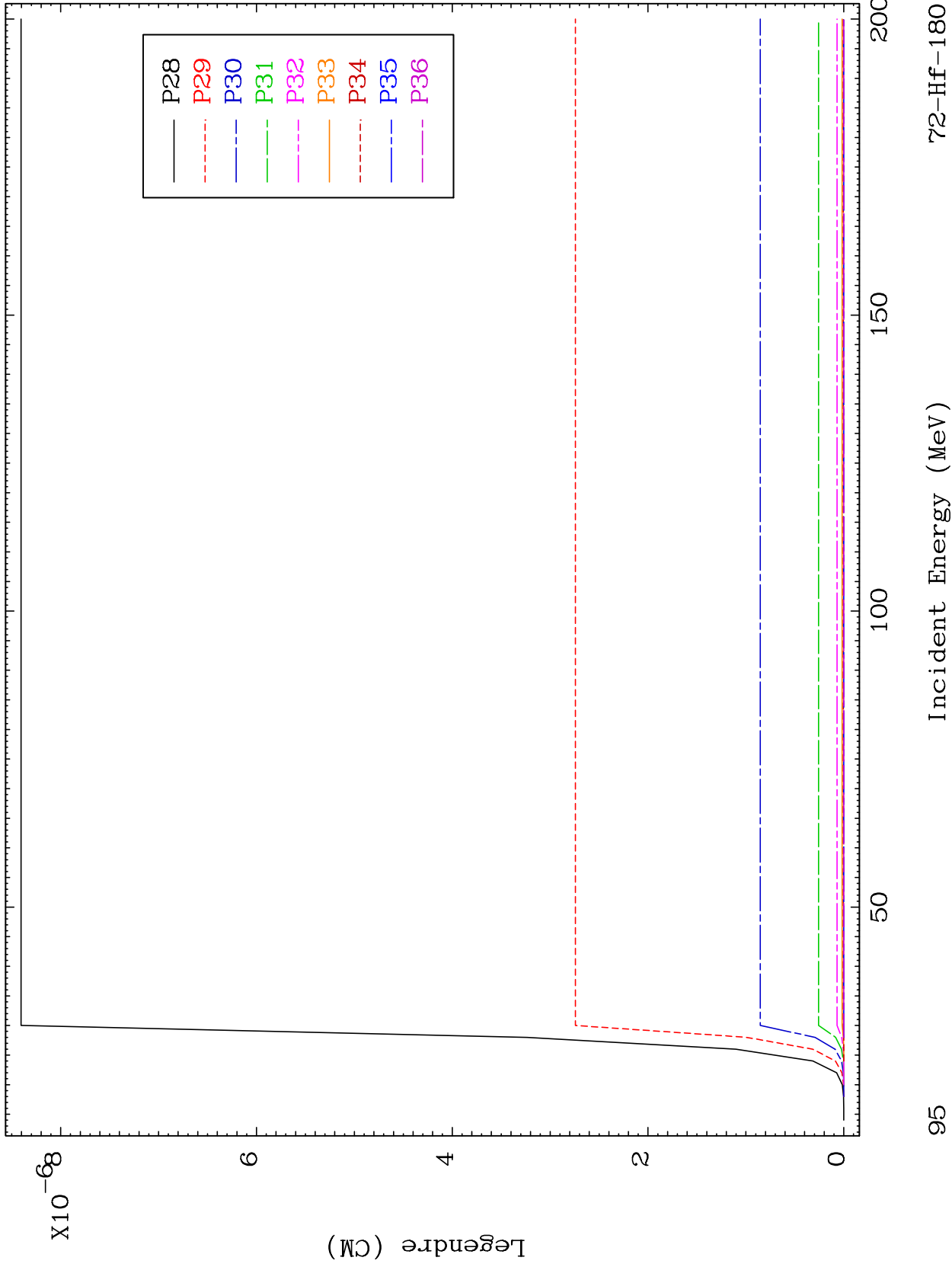
Incident Energy (MeV)

72-Hf-180

MAT 7243

MT= 71 (n,n') Level
Legendre Coefficients

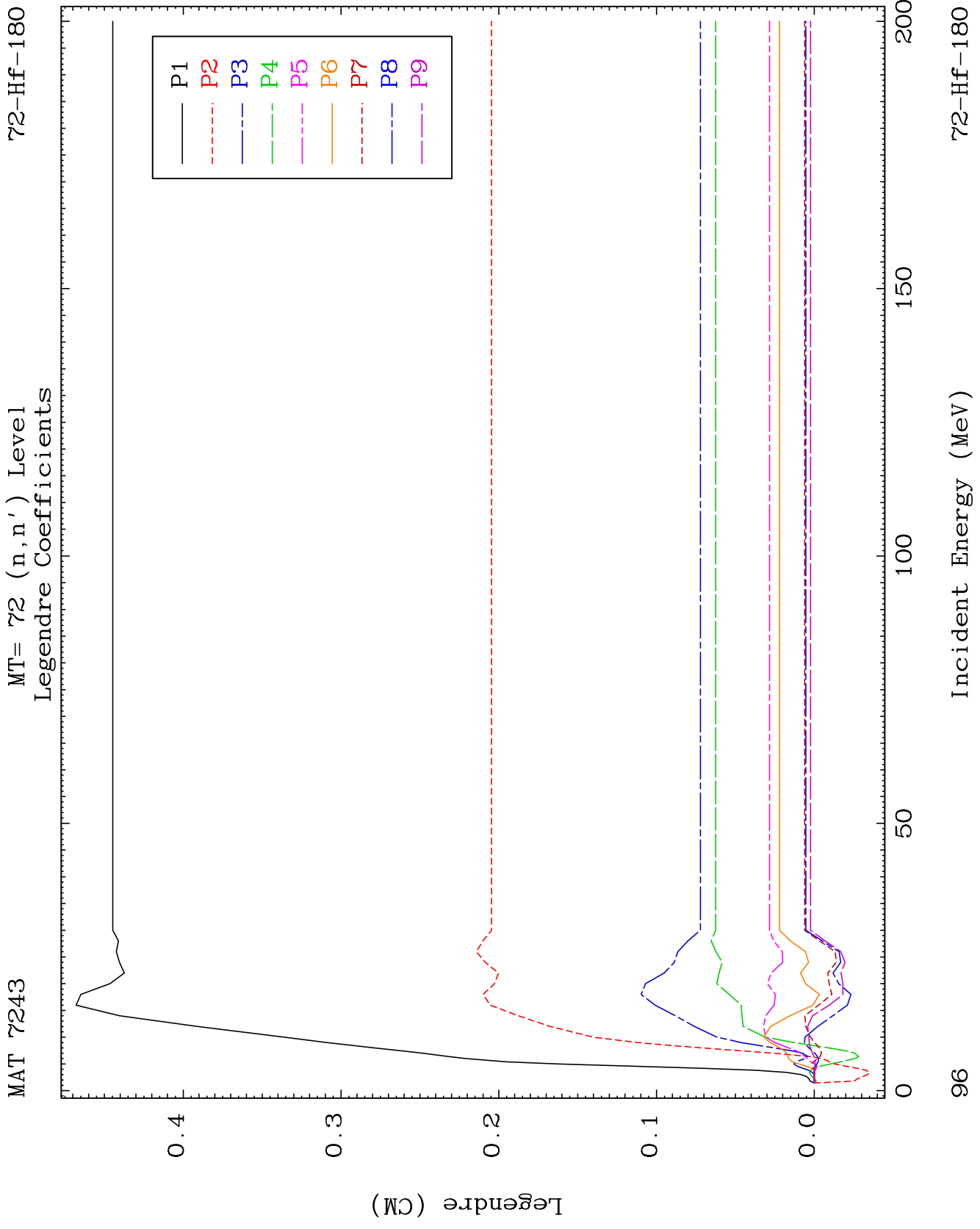
72-Hf-180



95

Incident Energy (MeV)

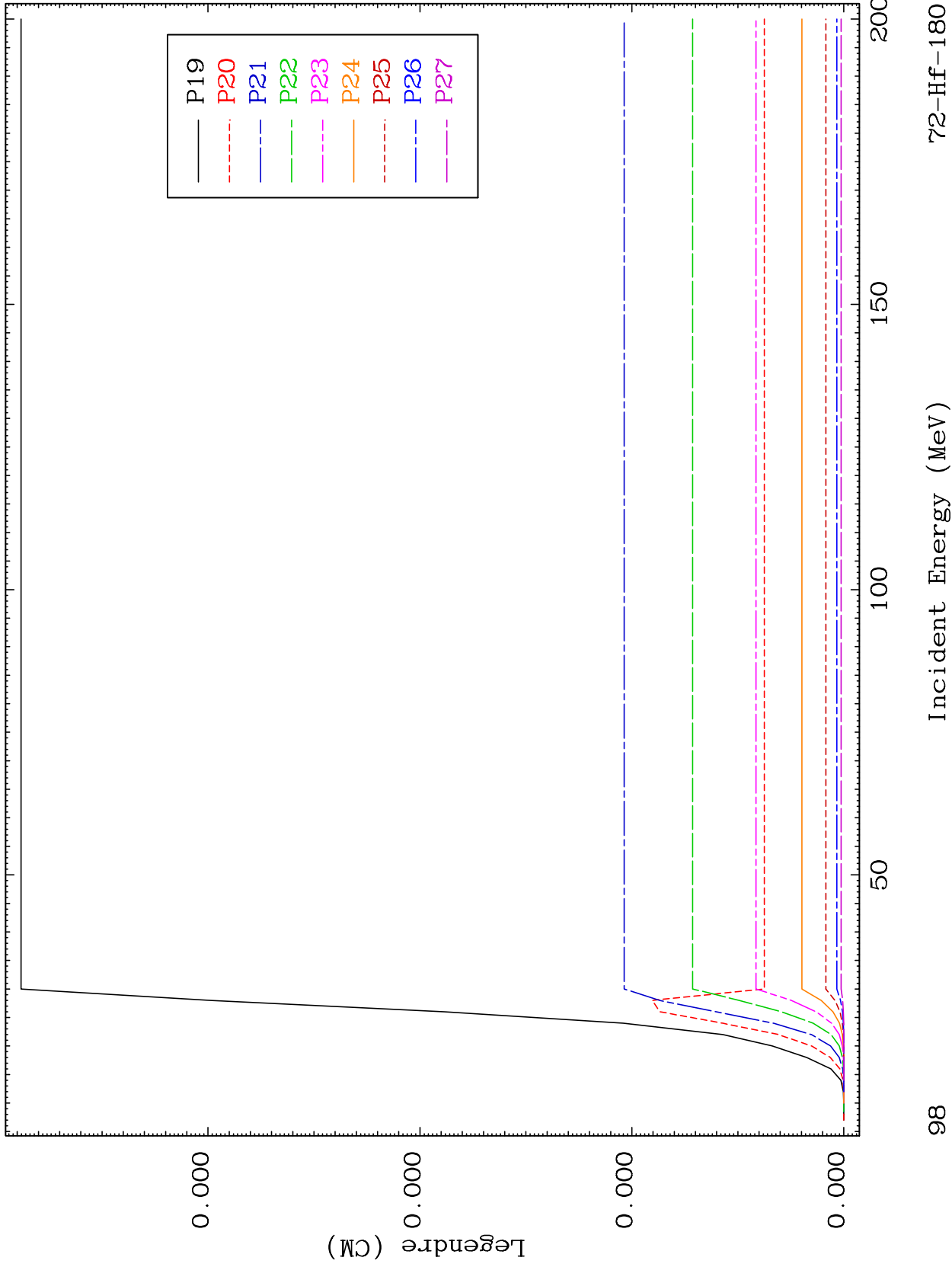
72-Hf-180



MAT 7243

MT= 72 (n,n') Level
Legendre Coefficients

72-Hf-180



98

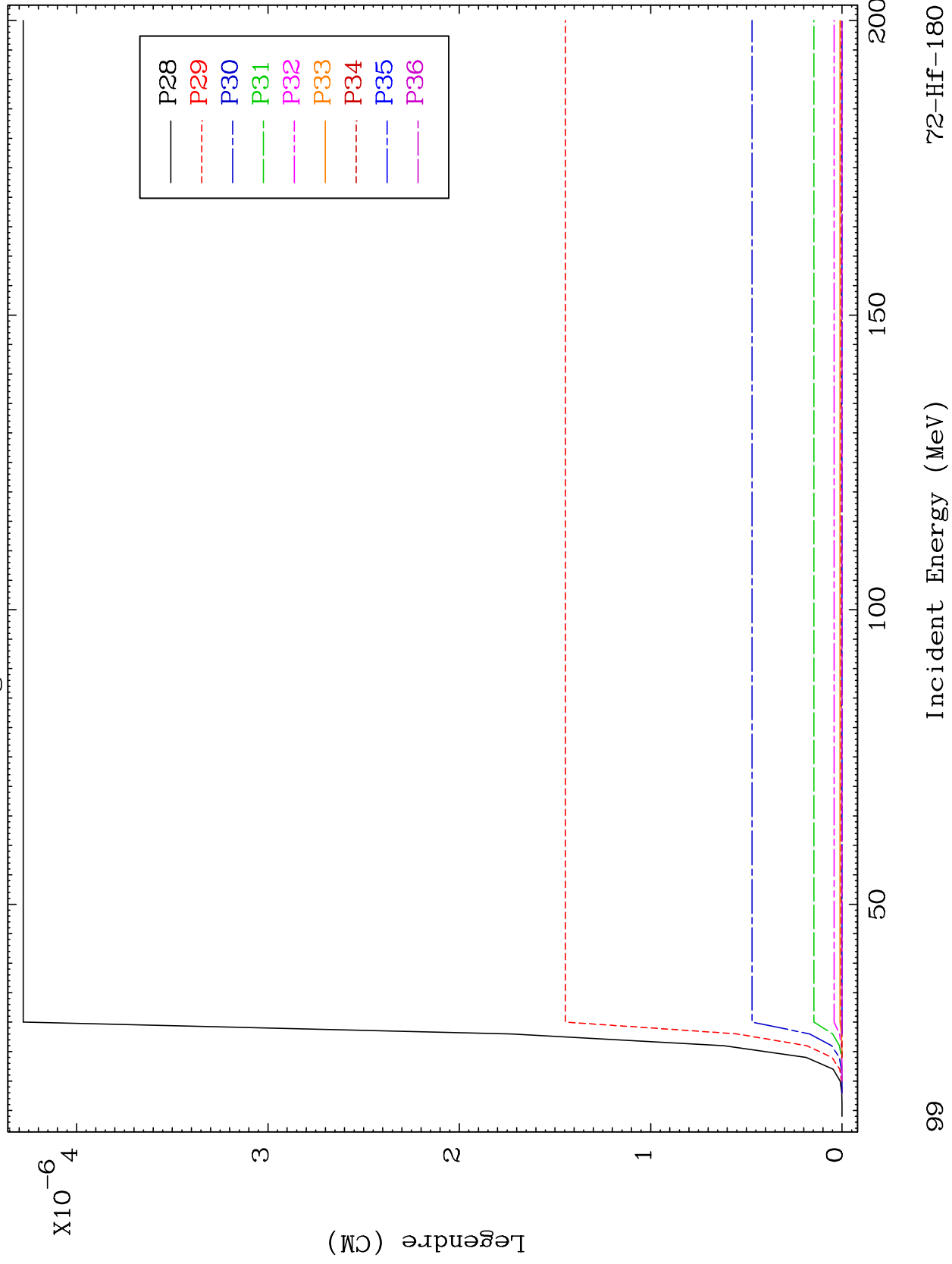
Incident Energy (MeV)

72-Hf-180

MAT 7243

MT= 72 (n,n') Level
Legendre Coefficients

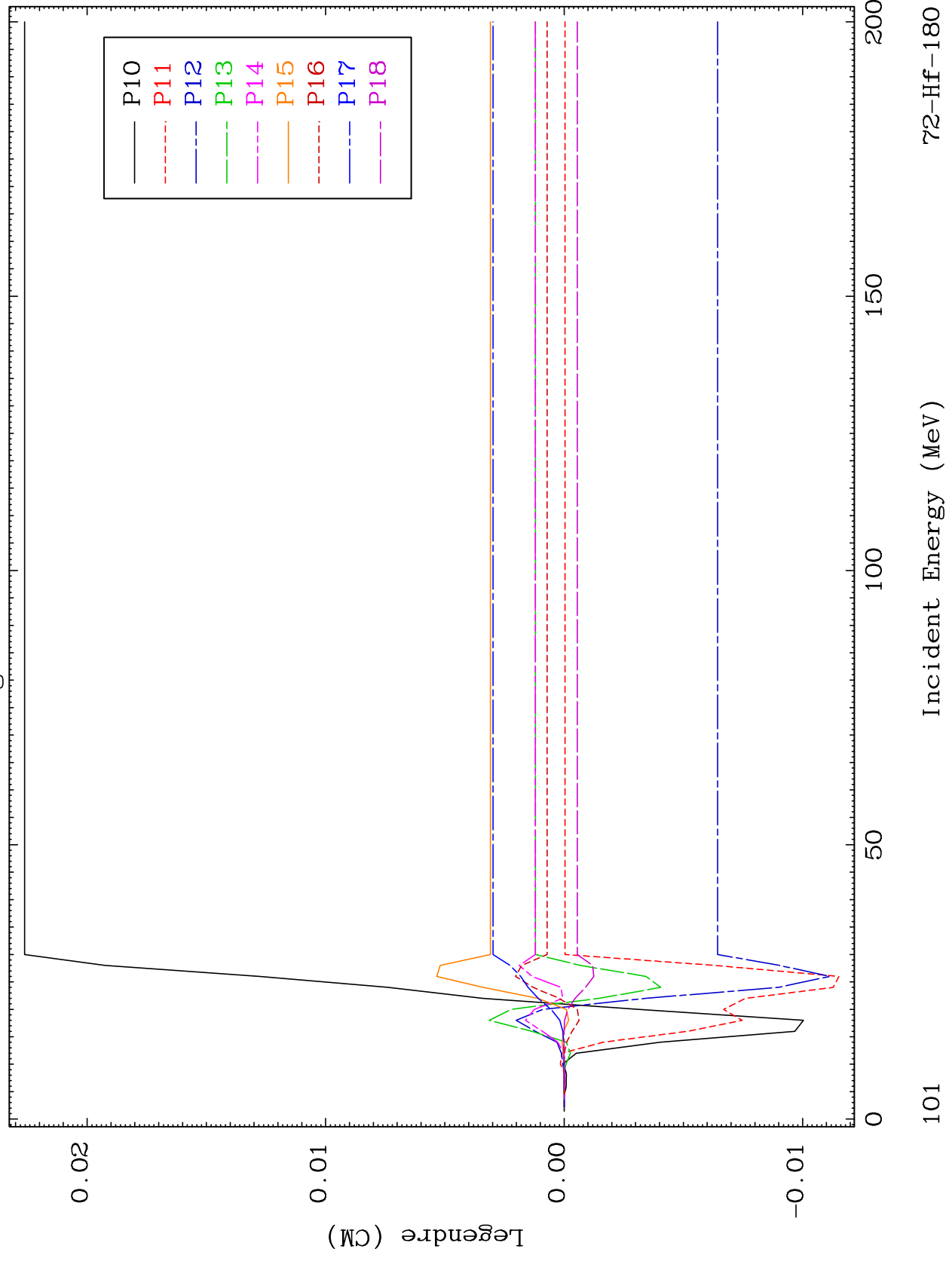
72-Hf-180



MAT 7243

MT= 73 (n,n') Level
Legendre Coefficients

72-Hf-180



72-Hf-180

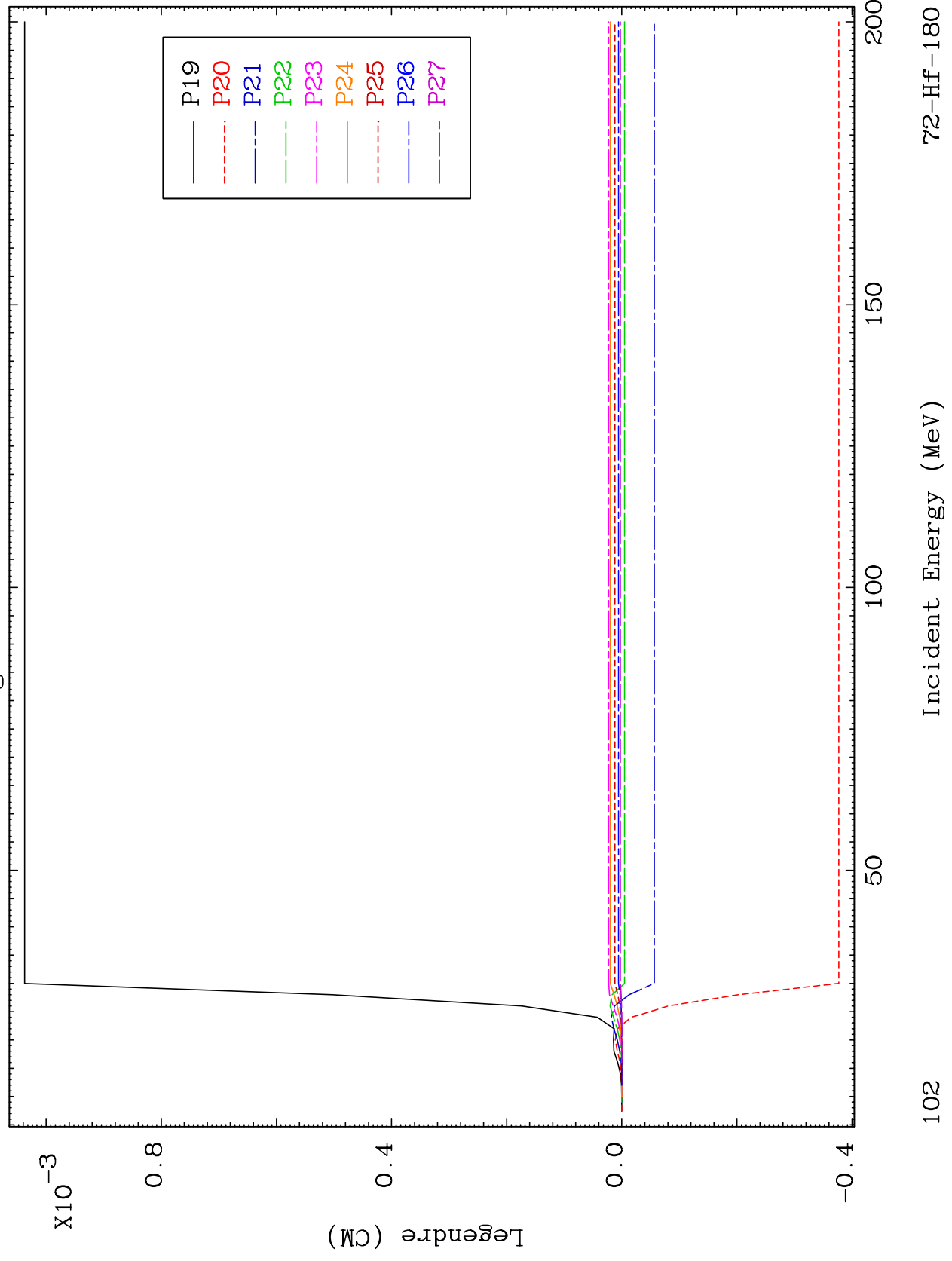
Incident Energy (MeV)

101

MAT 7243

MT= 73 (n,n') Level
Legendre Coefficients

72-Hf-180



102

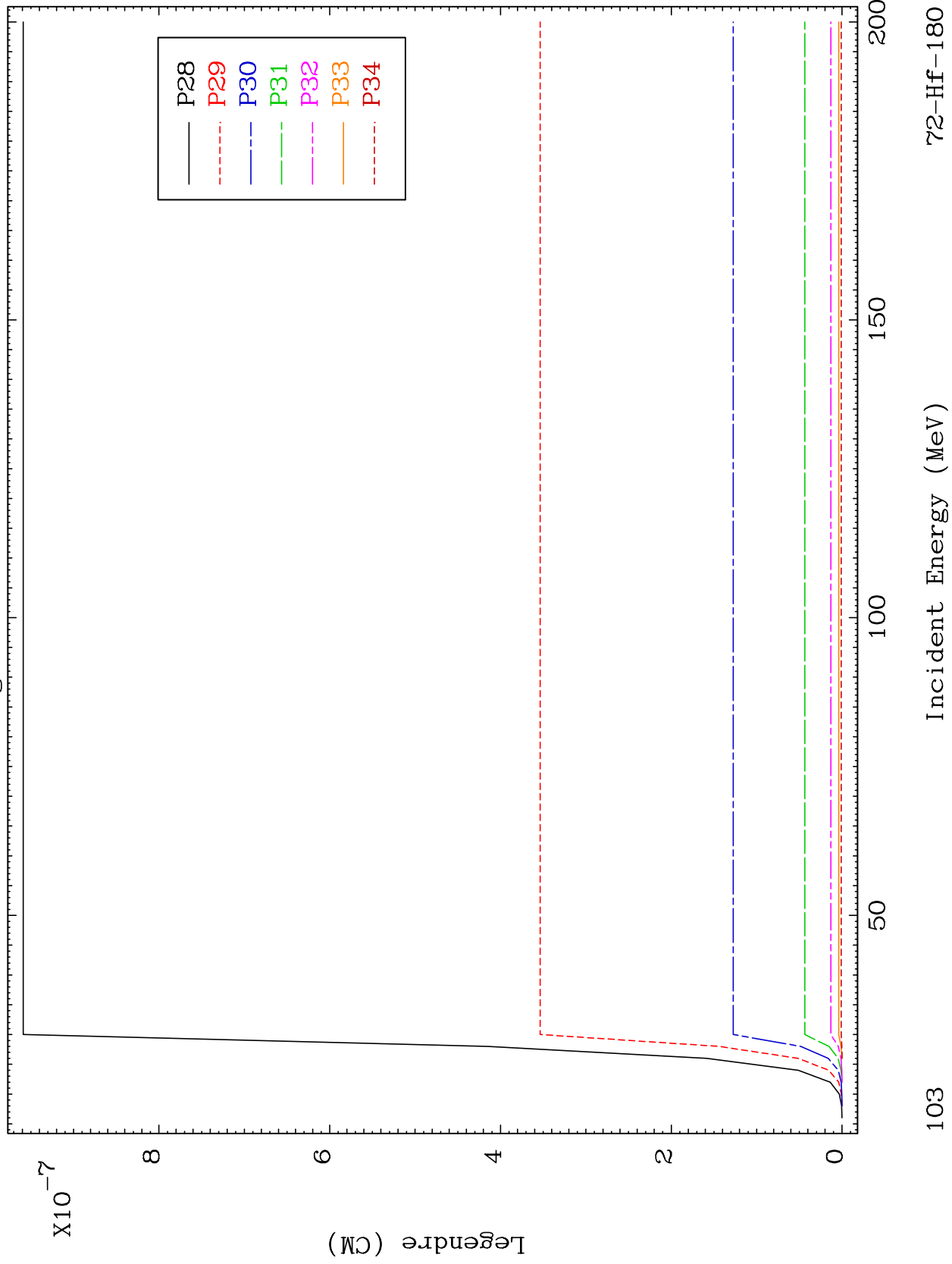
Incident Energy (MeV)

72-Hf-180

MAT 7243

MT= 73 (n,n') Level
Legendre Coefficients

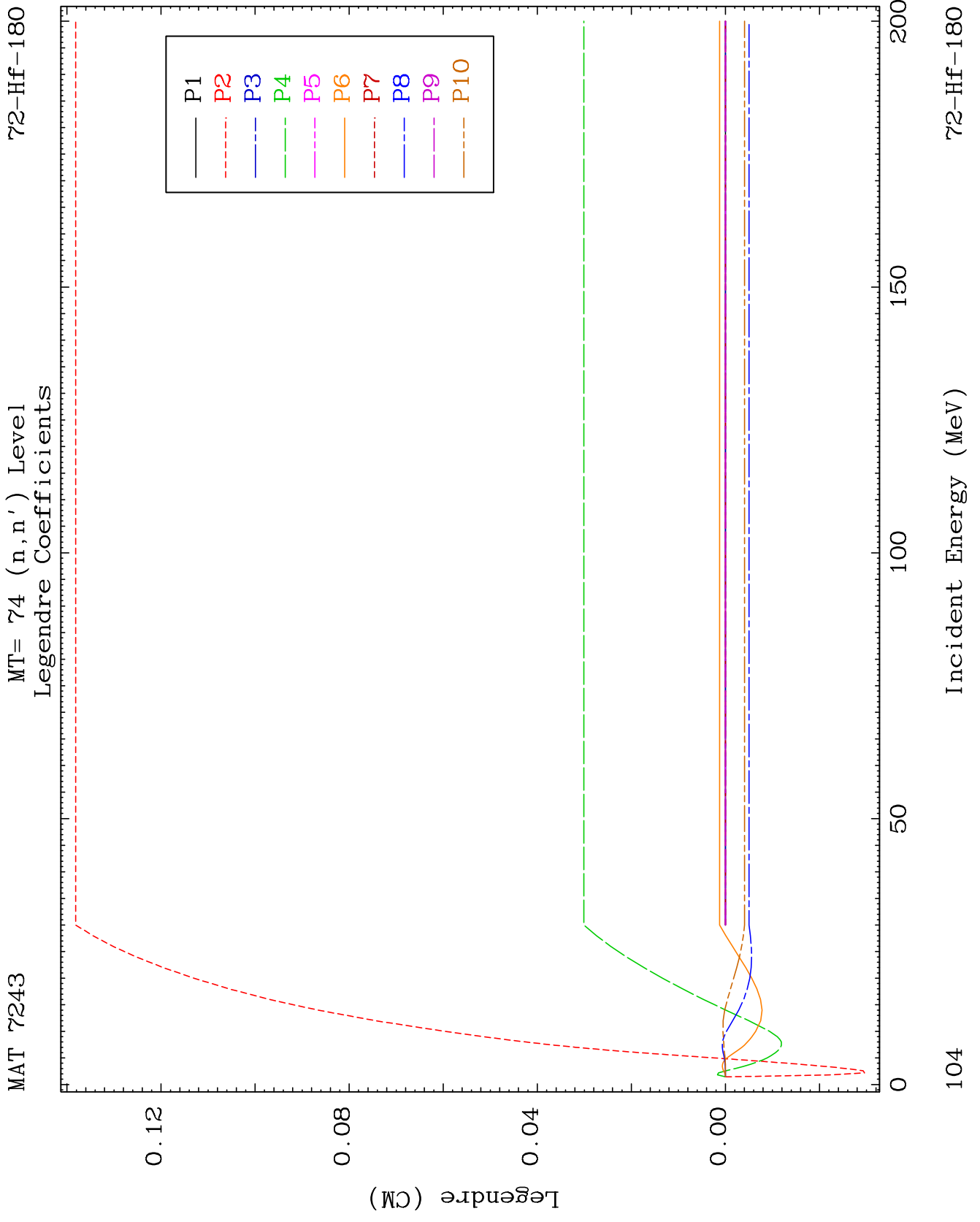
72-Hf-180



103

Incident Energy (MeV)

72-Hf-180

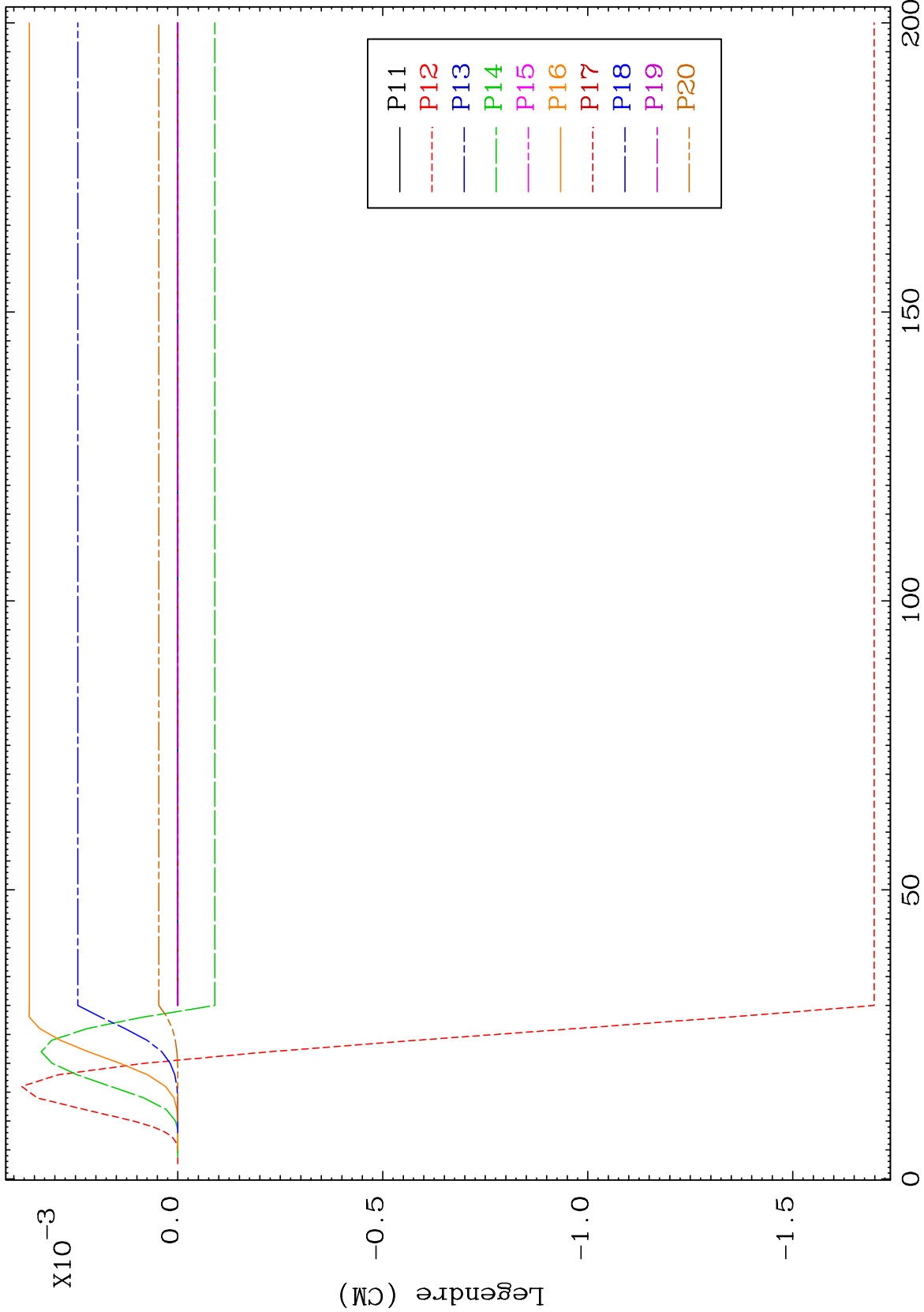


MAT 7243

MT= 74 (n,n') Level

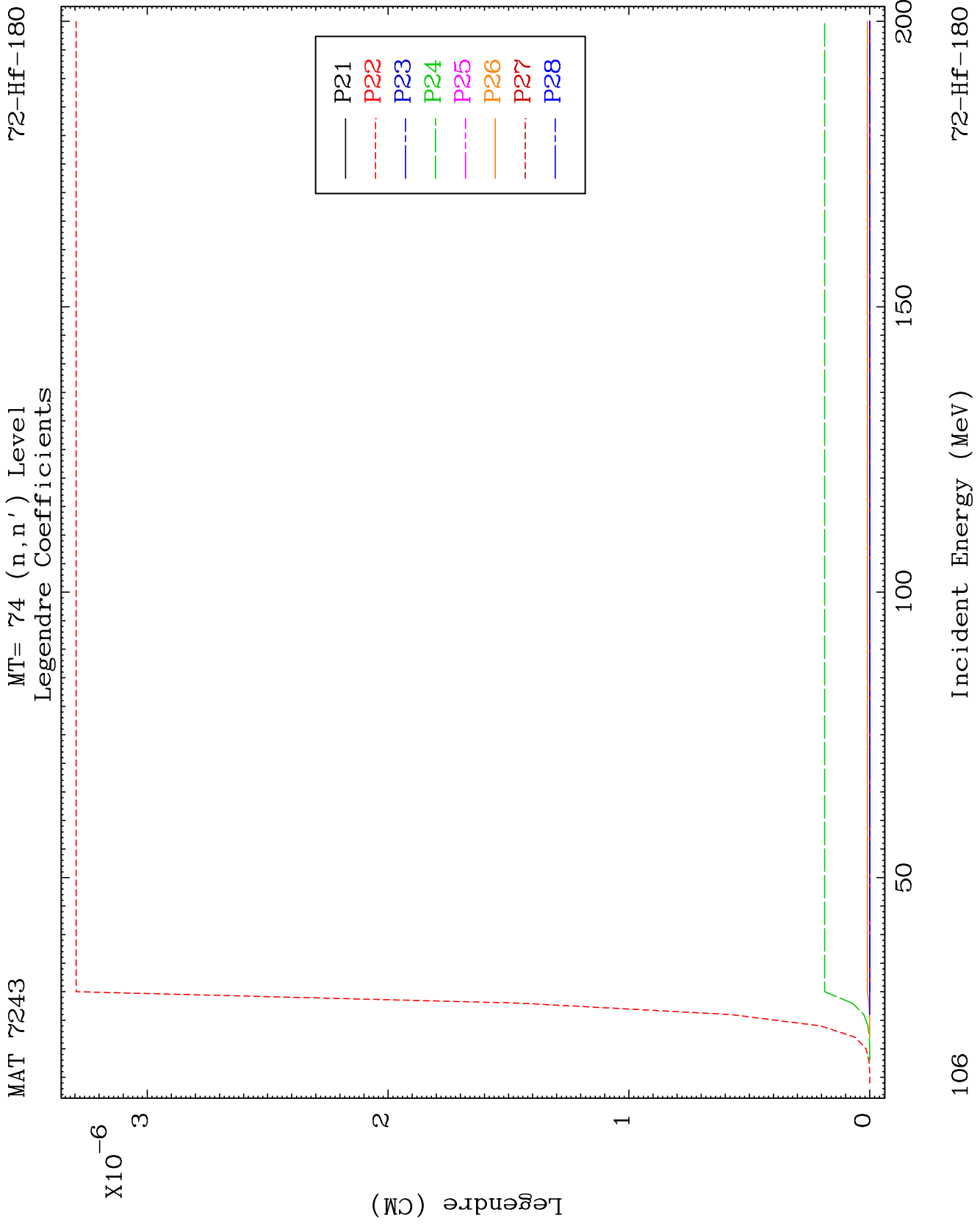
72-Hf-180

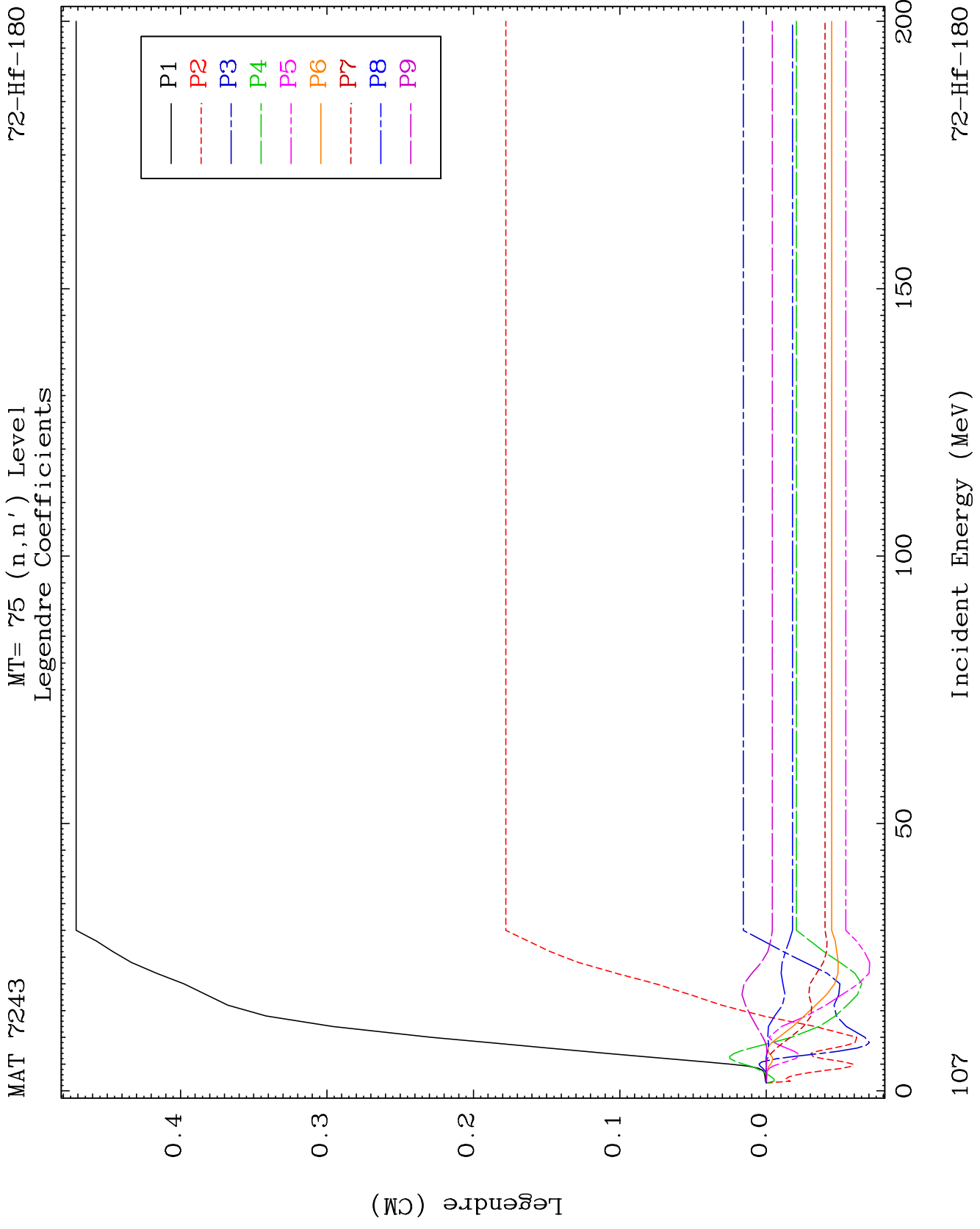
Legendre Coefficients

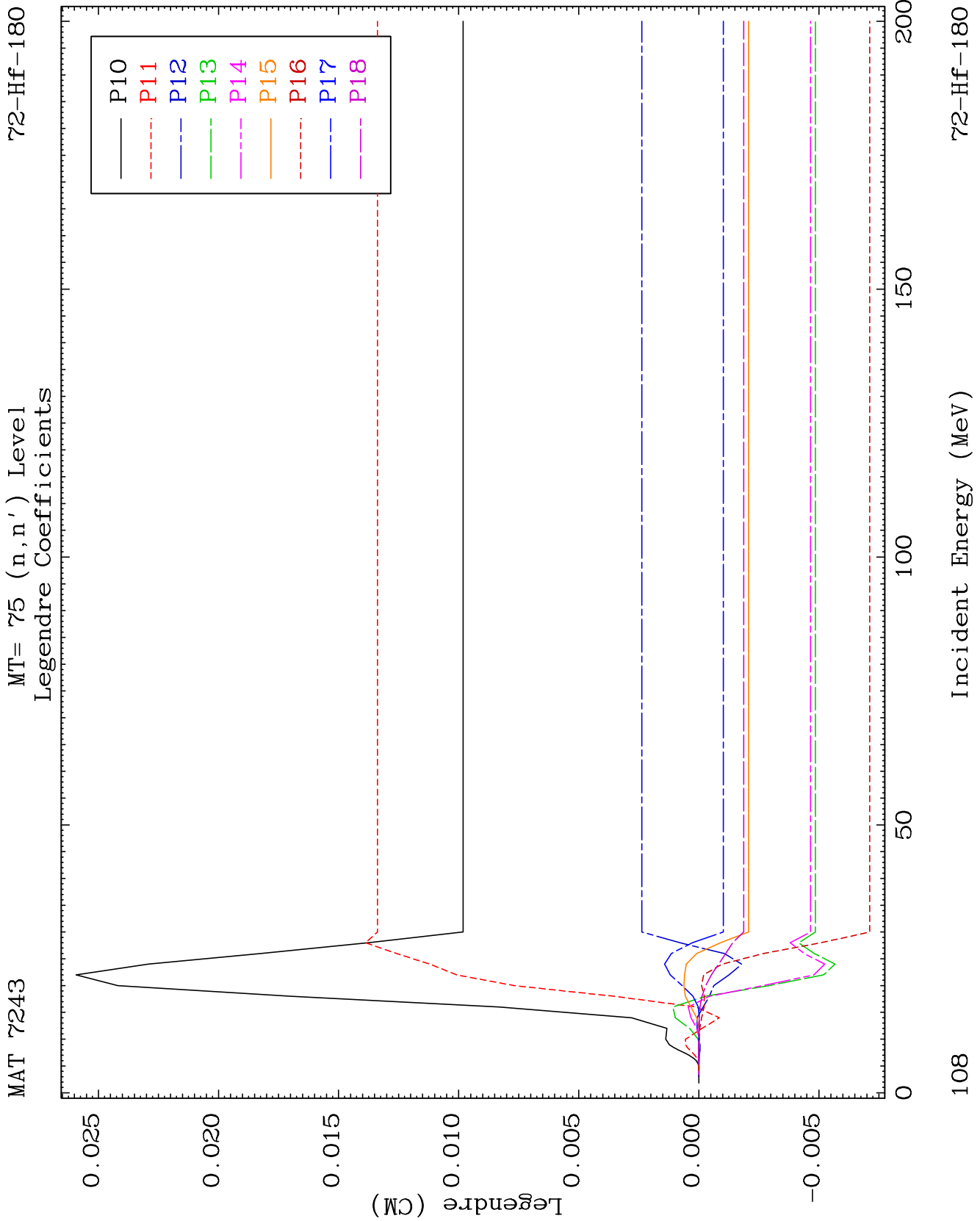


105

72-Hf-180



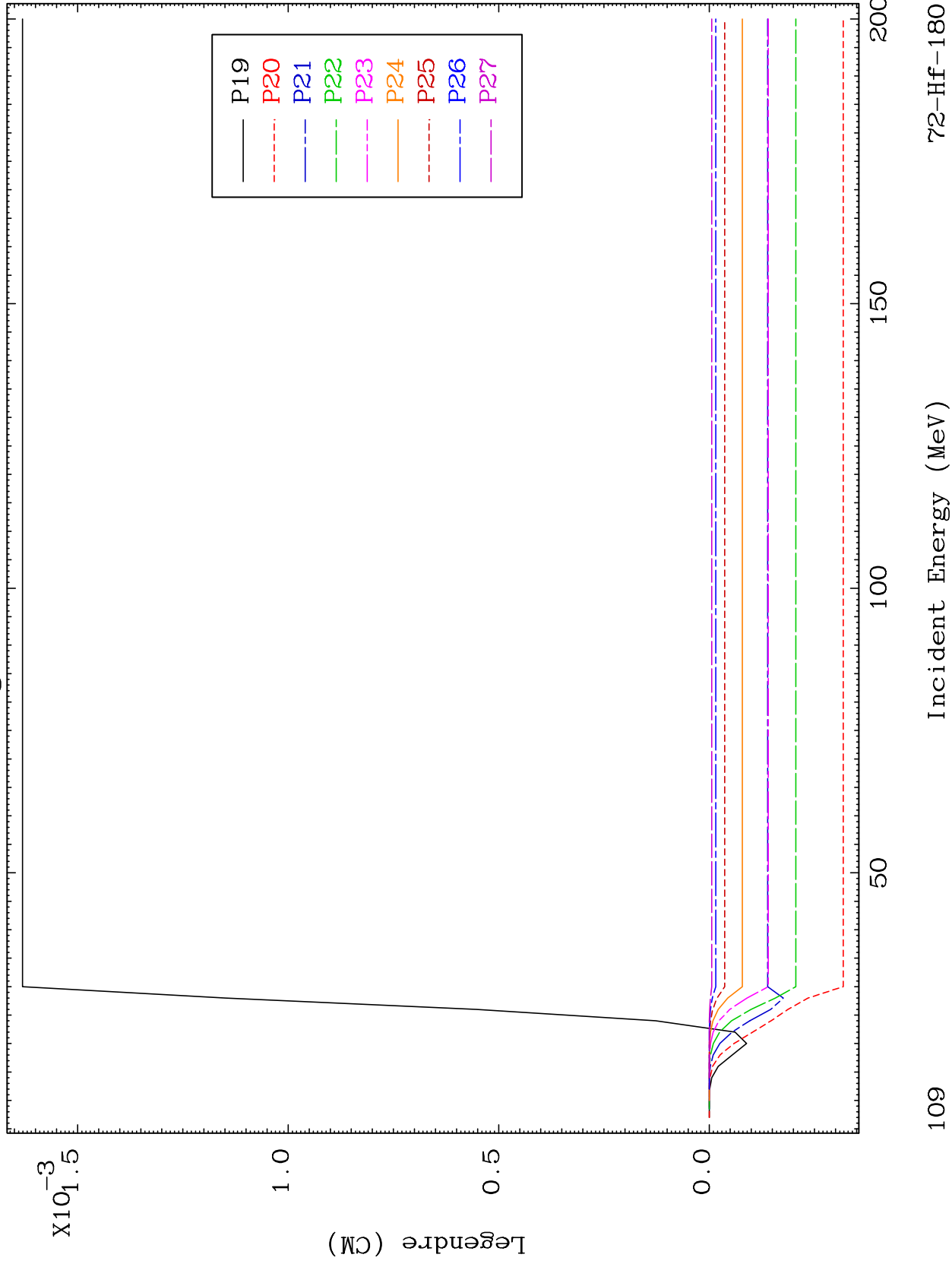




MAT 7243

MT= 75 (n,n') Level
Legendre Coefficients

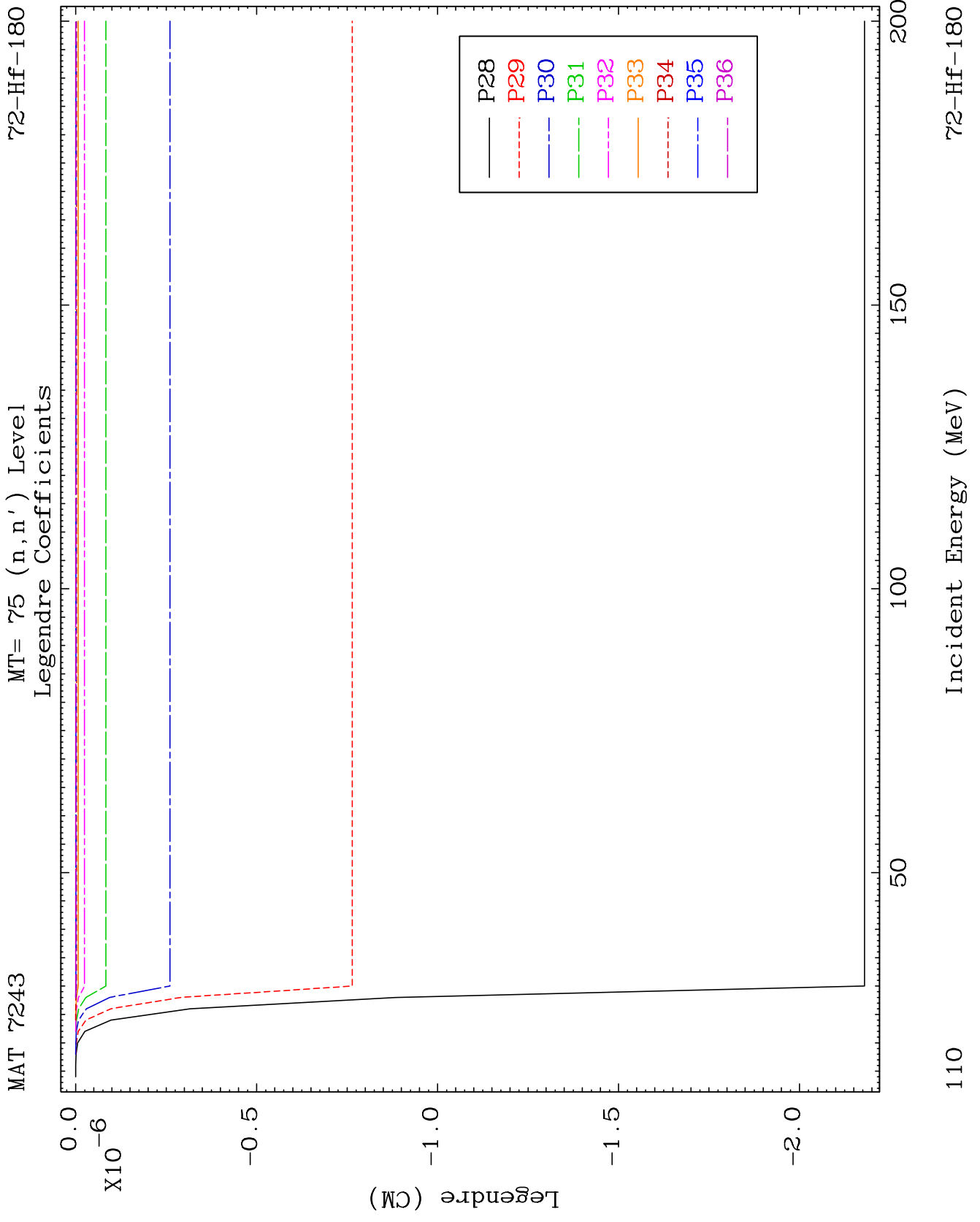
72-Hf-180



109

Incident Energy (MeV)

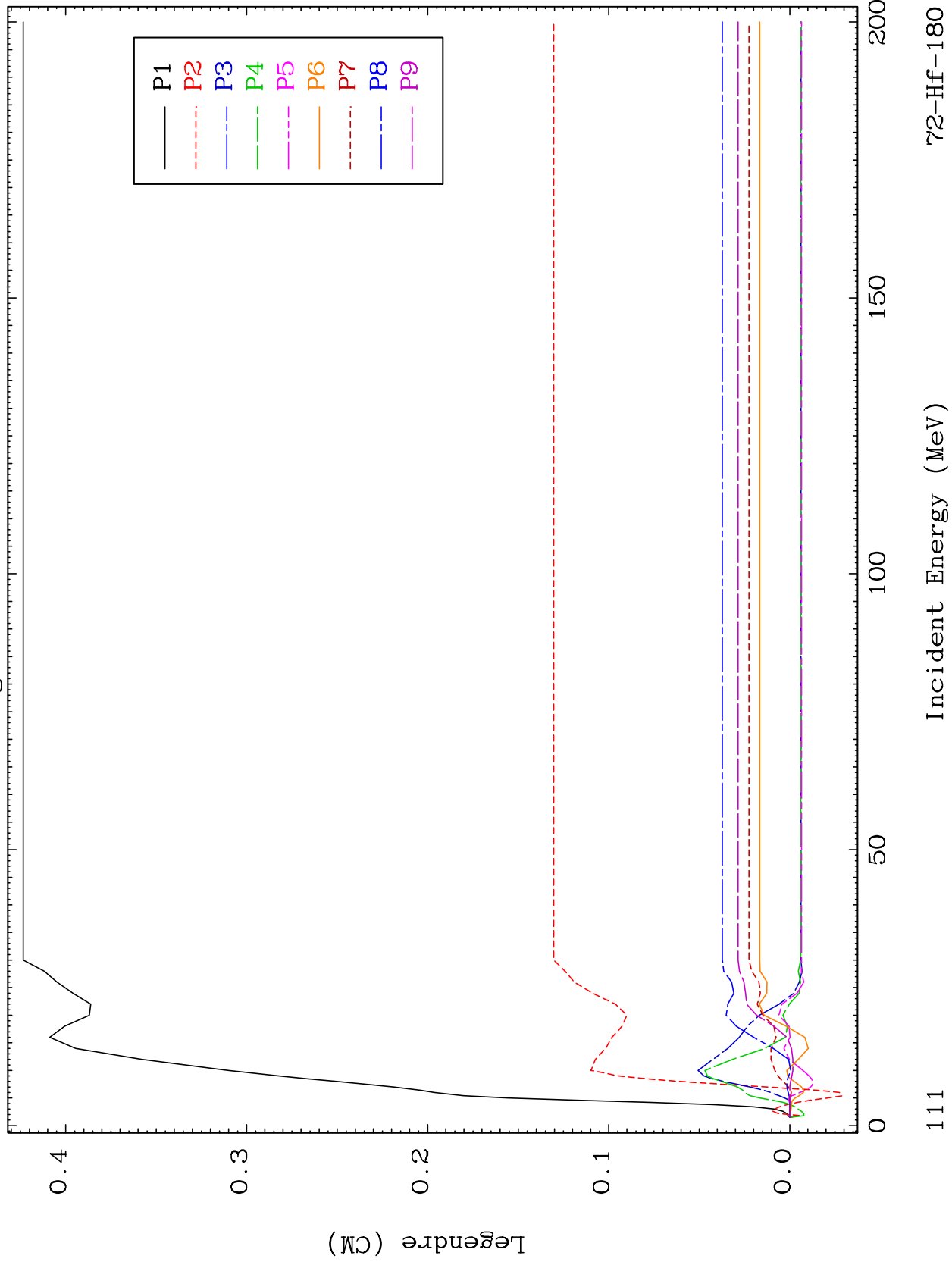
72-Hf-180



MAT 7243

MT= 76 (n,n') Level
Legendre Coefficients

72-Hf-180



111

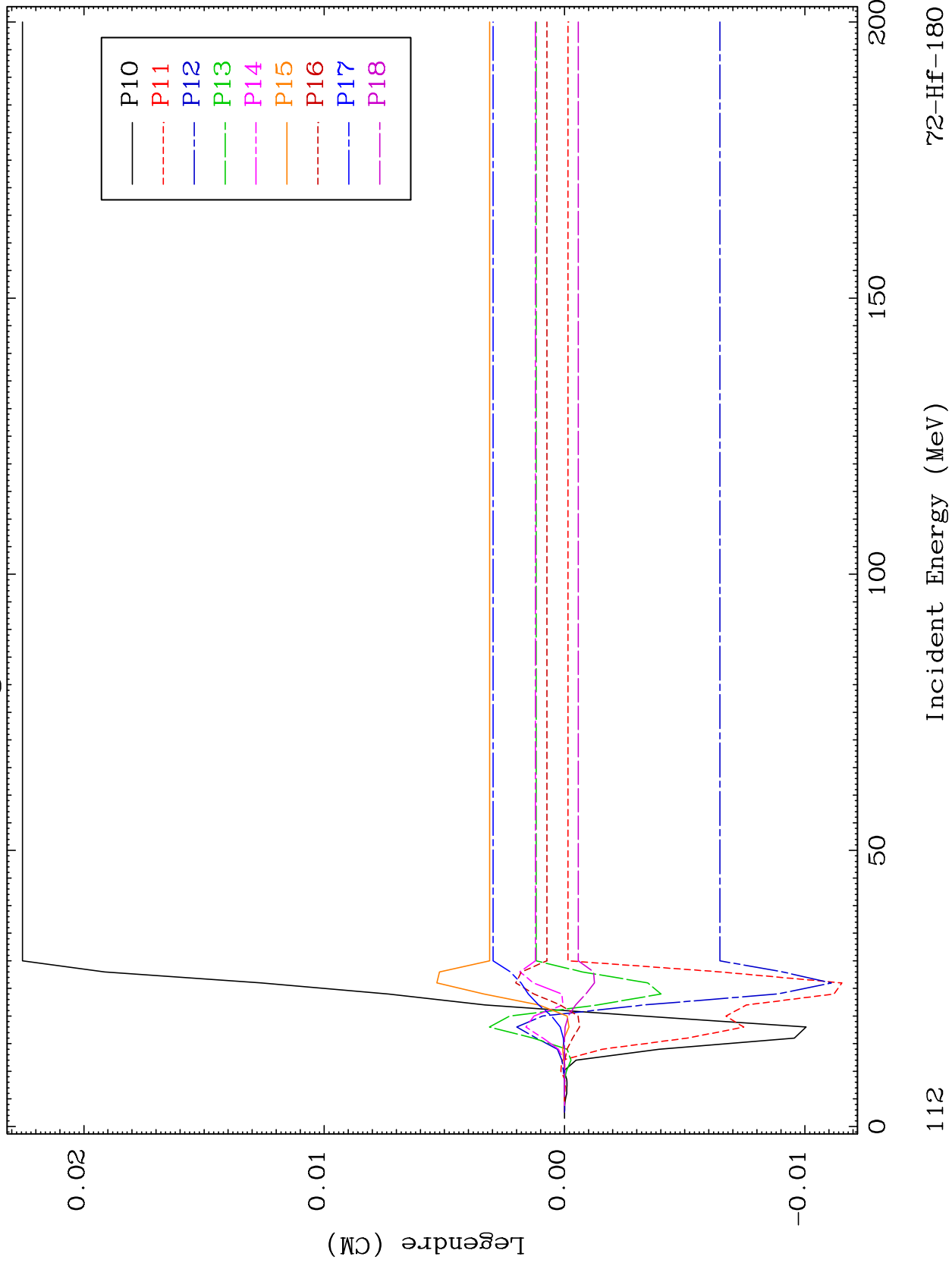
Incident Energy (MeV)

72-Hf-180

MAT 7243

MT= 76 (n,n') Level
Legendre Coefficients

72-Hf-180



72-Hf-180

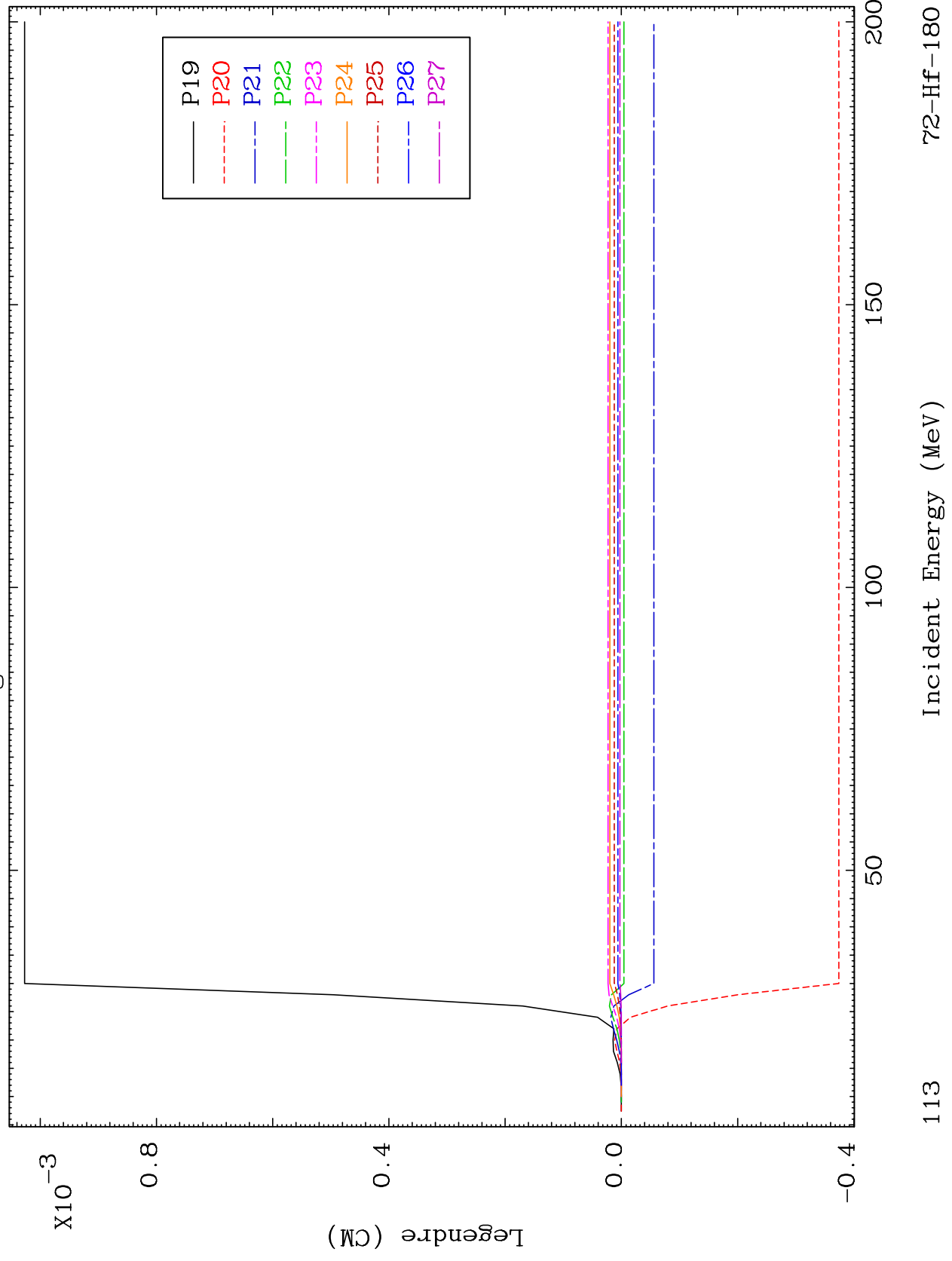
Incident Energy (MeV)

112

MAT 7243

MT= 76 (n,n') Level
Legendre Coefficients

72-Hf-180

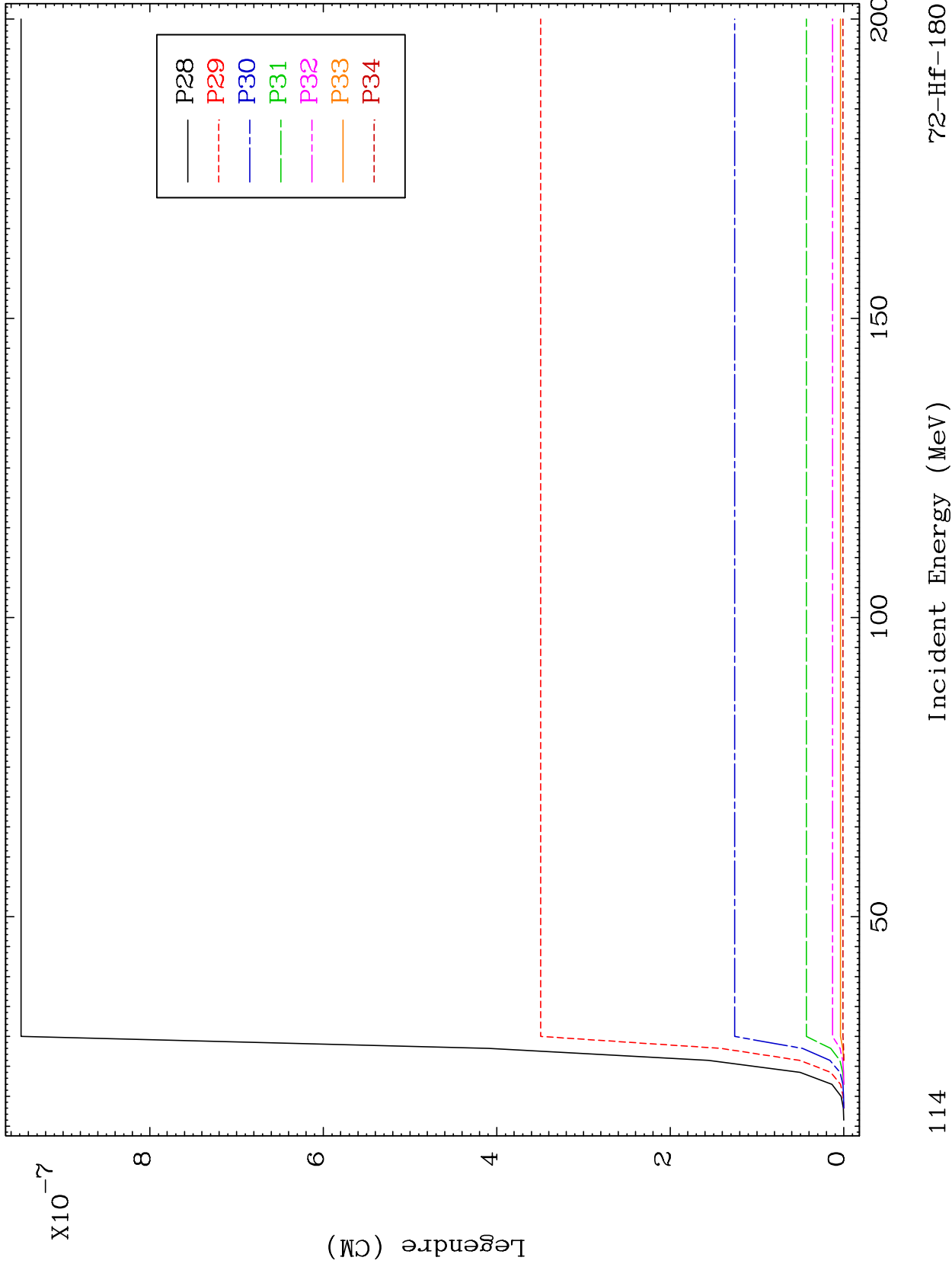


113

MAT 7243

MT= 76 (n,n') Level
Legendre Coefficients

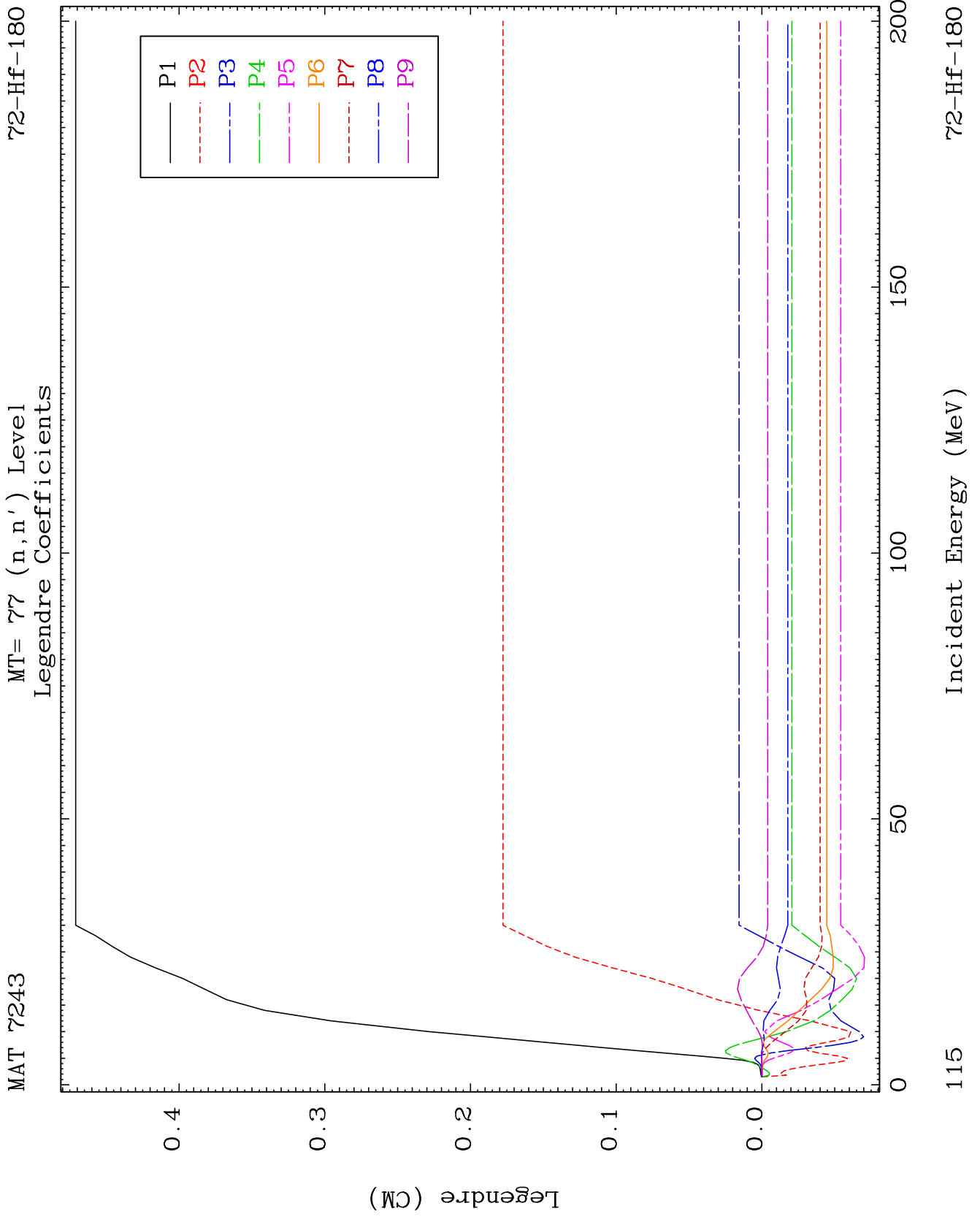
72-Hf-180



114

Incident Energy (MeV)

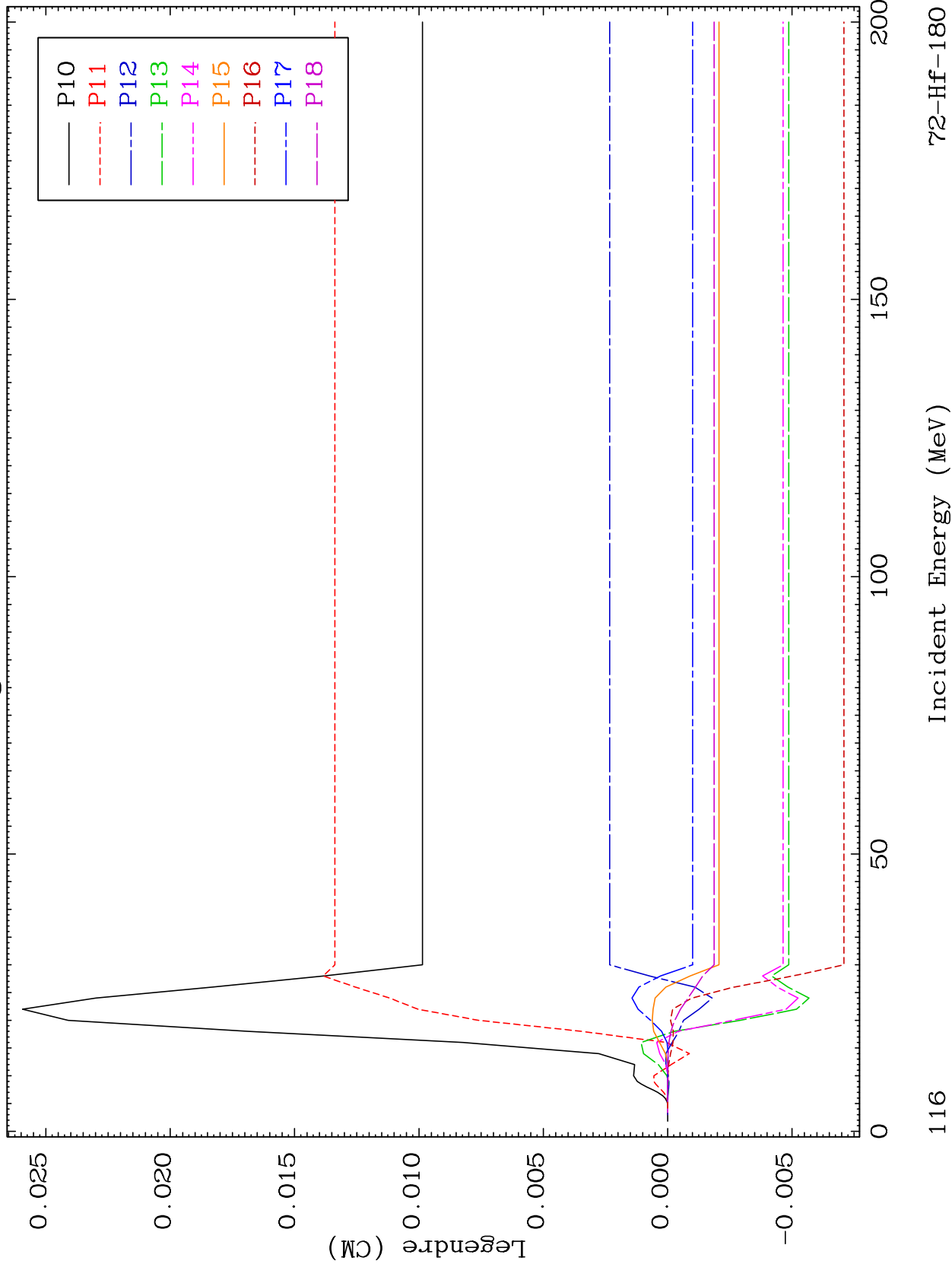
72-Hf-180



MAT 7243

MT= 77 (n,n') Level
Legendre Coefficients

72-Hf-180



116

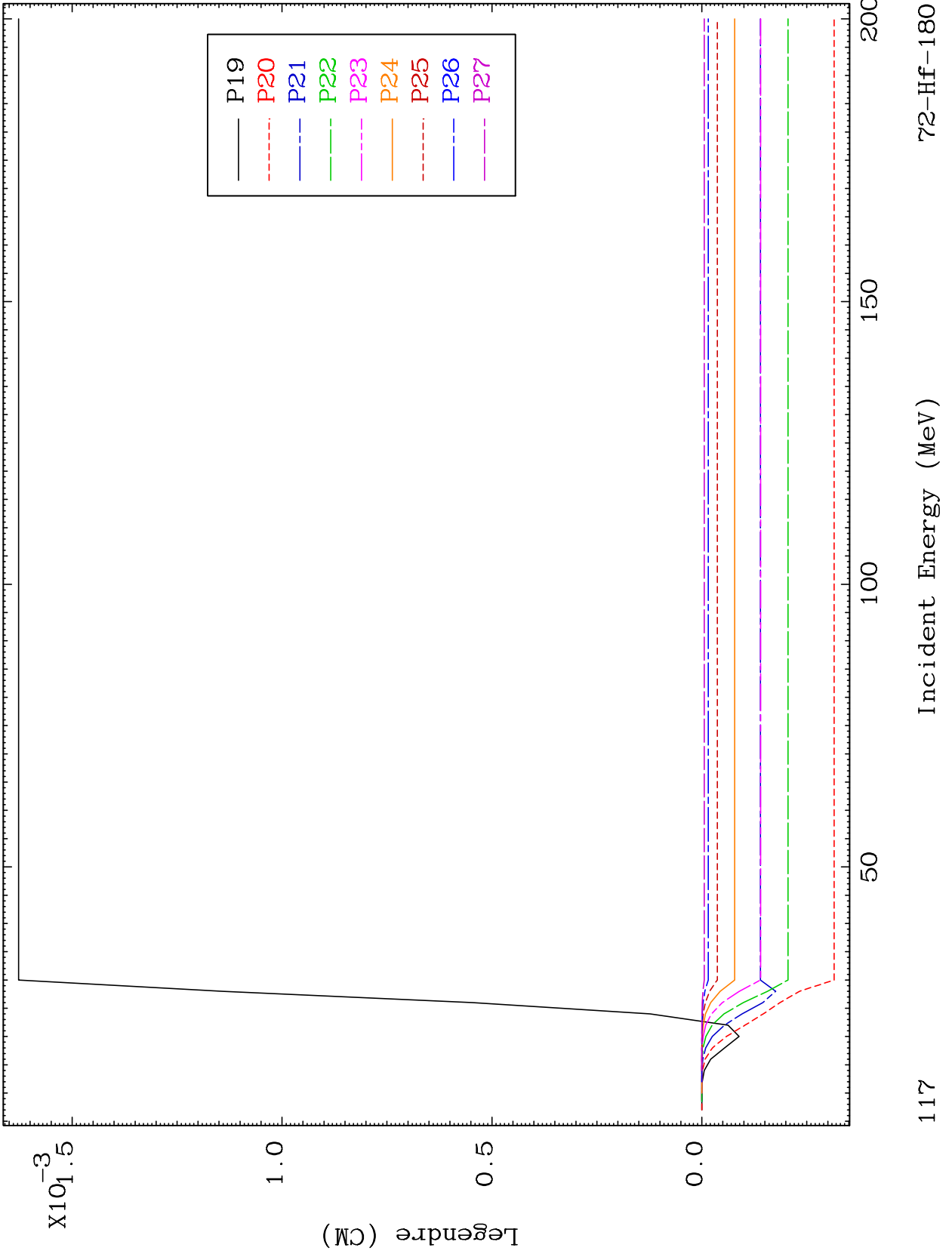
Incident Energy (MeV)

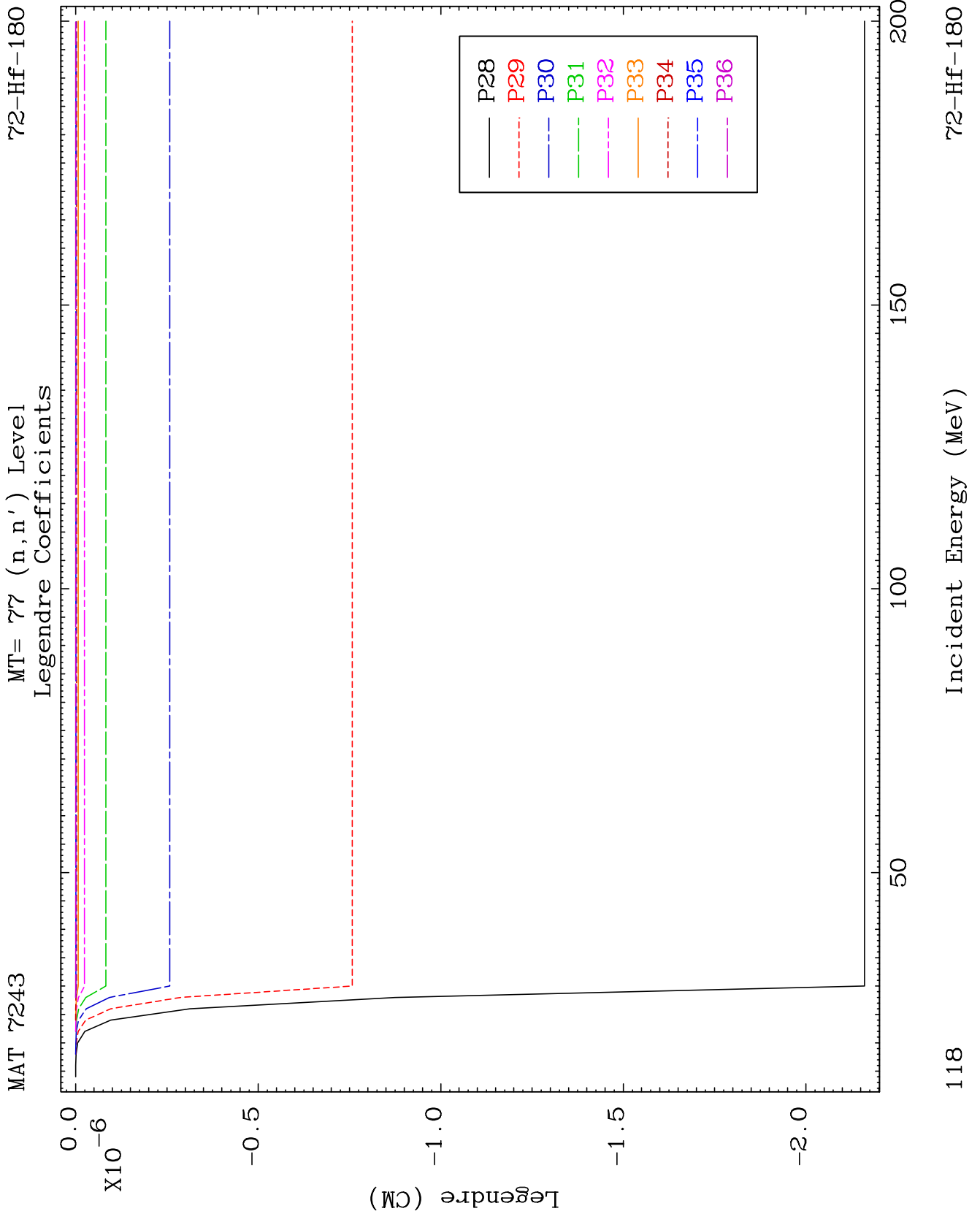
72-Hf-180

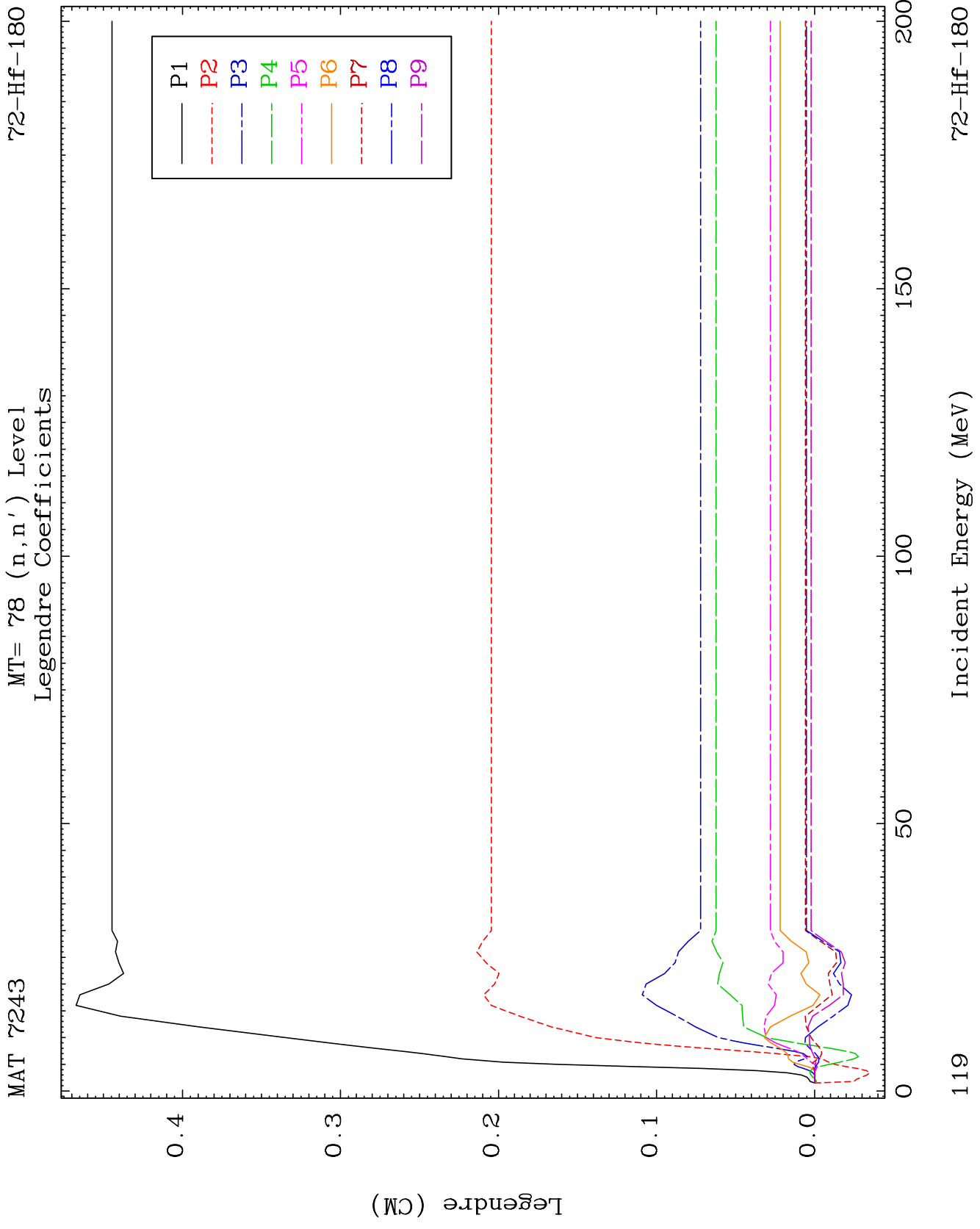
MAT 7243

MT= 77 (n,n') Level
Legendre Coefficients

72-Hf-180



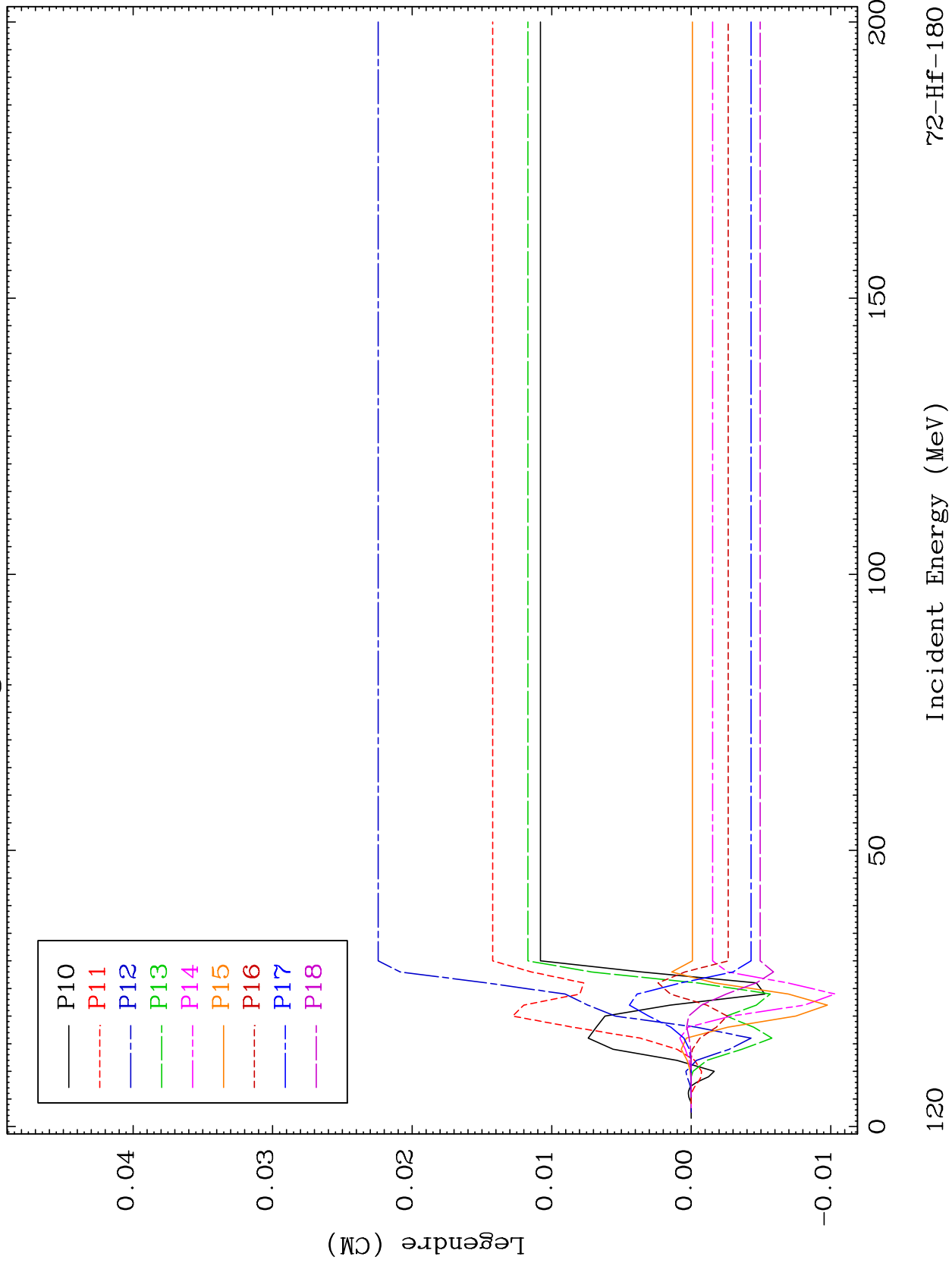




MAT 7243

MT= 78 (n,n') Level
Legendre Coefficients

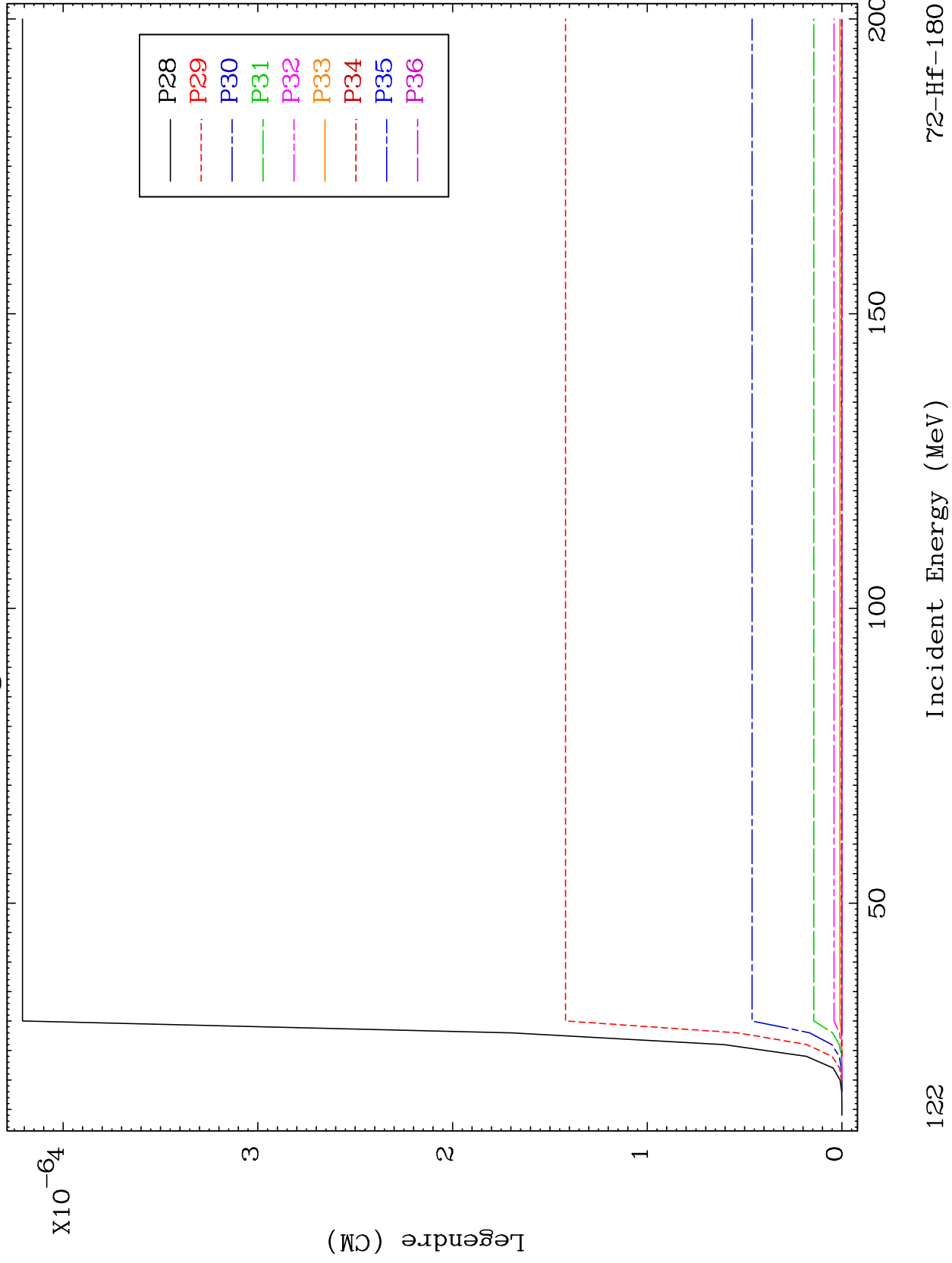
72-Hf-180



MAT 7243

MT= 78 (n,n') Level
Legendre Coefficients

72-Hf-180



122

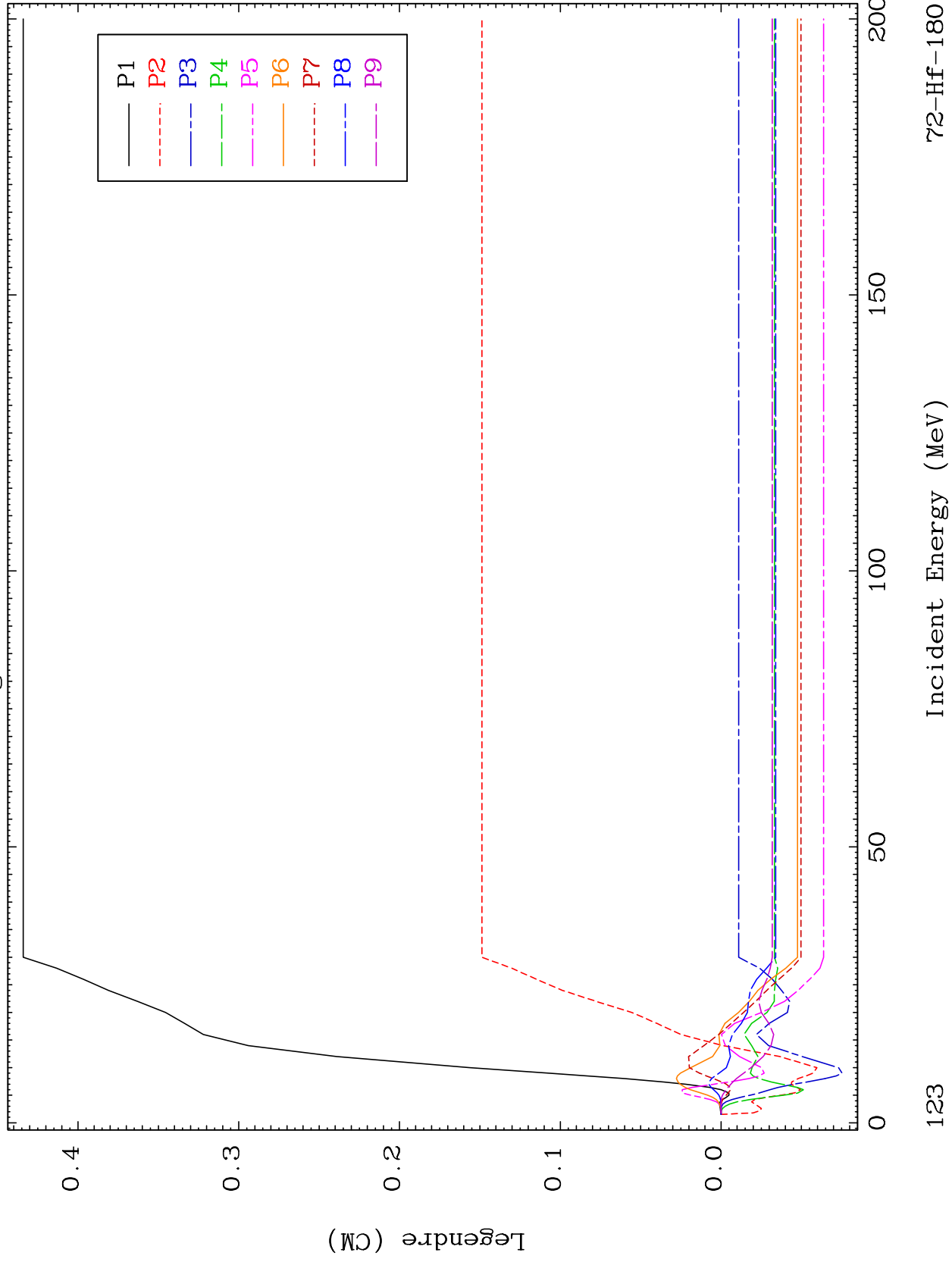
Incident Energy (MeV)

72-Hf-180

MAT 7243

MT= 79 (n,n') Level
Legendre Coefficients

72-Hf-180

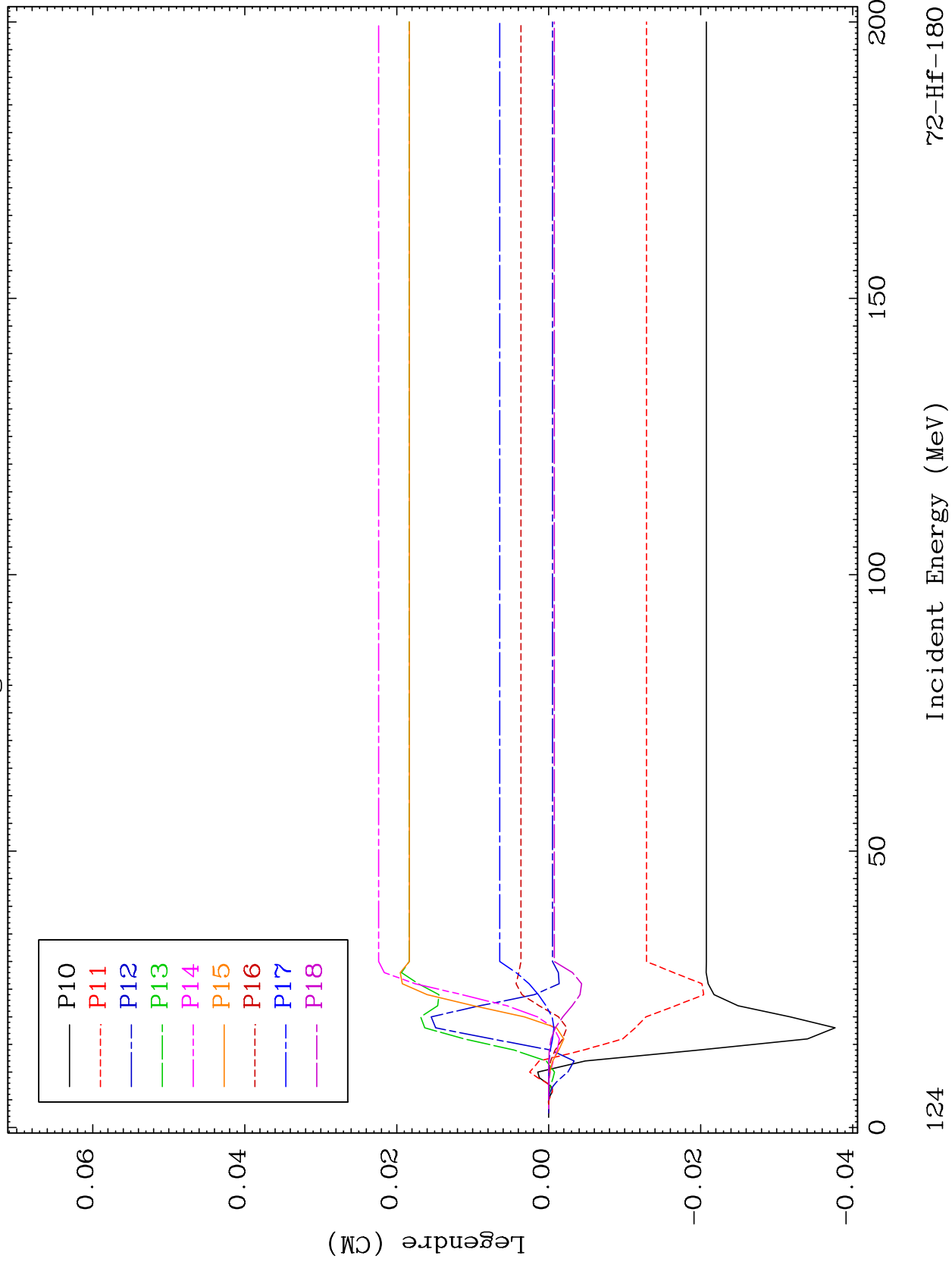


123

MAT 7243

MT= 79 (n,n') Level
Legendre Coefficients

72-Hf-180



124

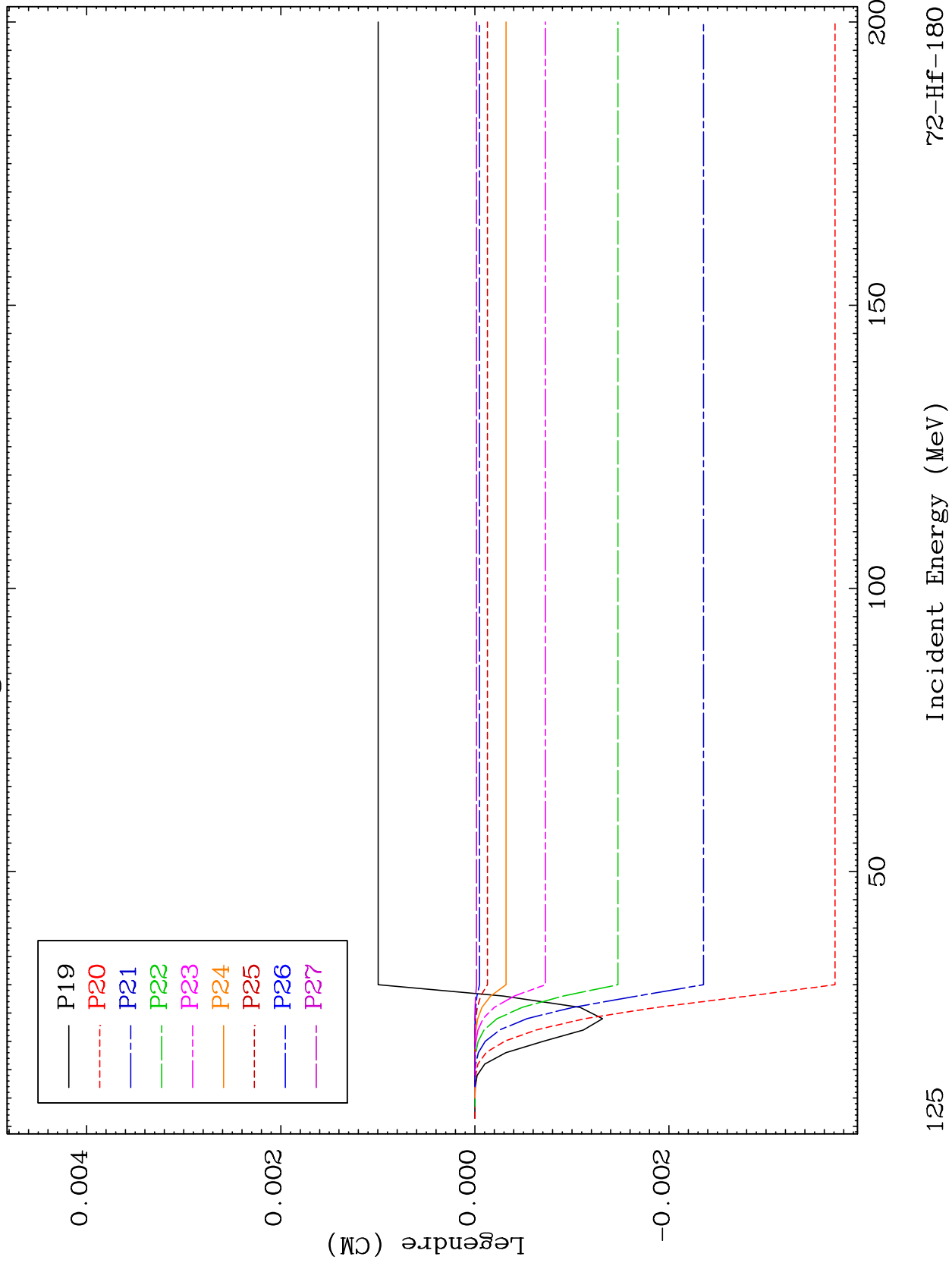
Incident Energy (MeV)

72-Hf-180

MAT 7243

MT= 79 (n,n') Level
Legendre Coefficients

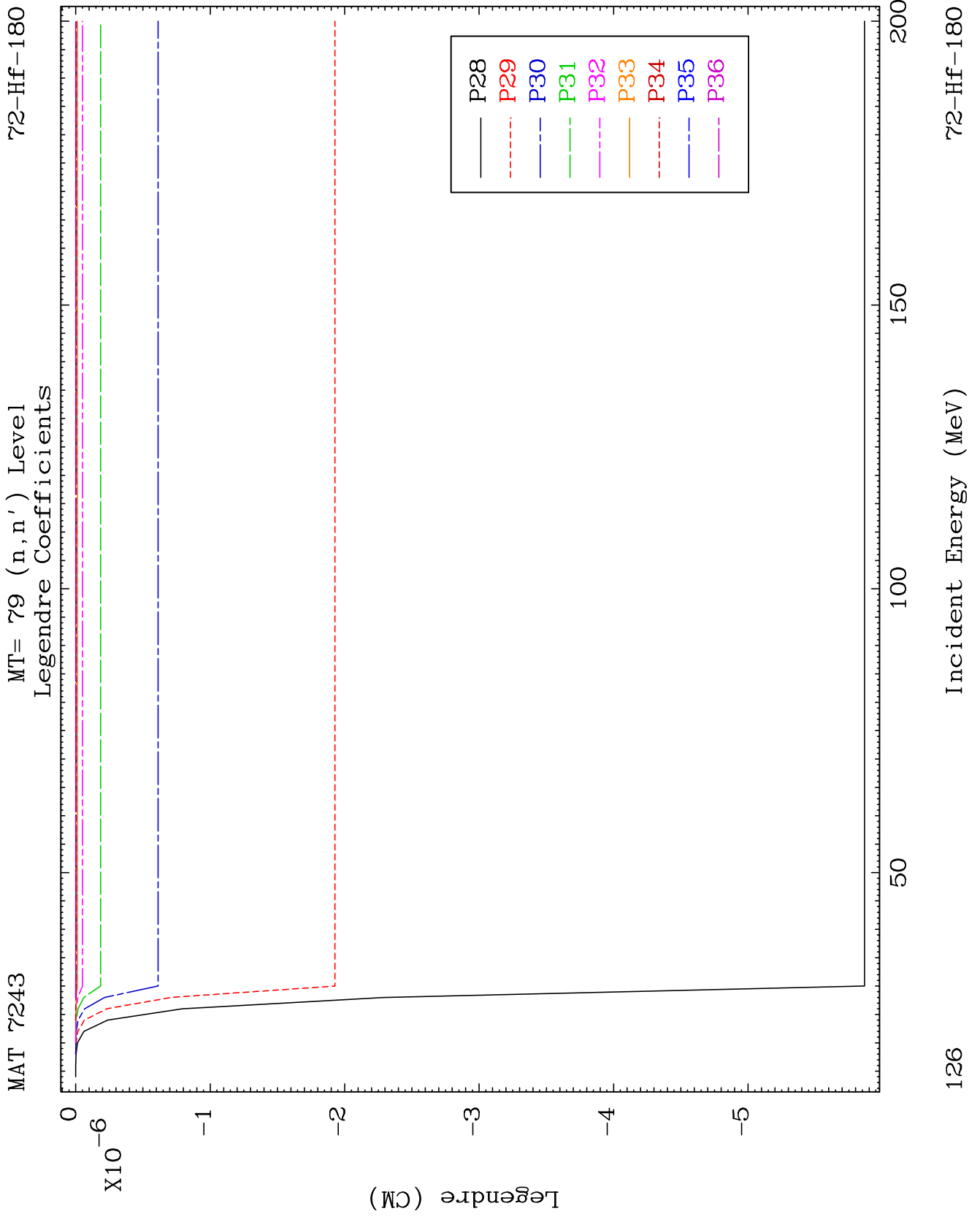
72-Hf-180

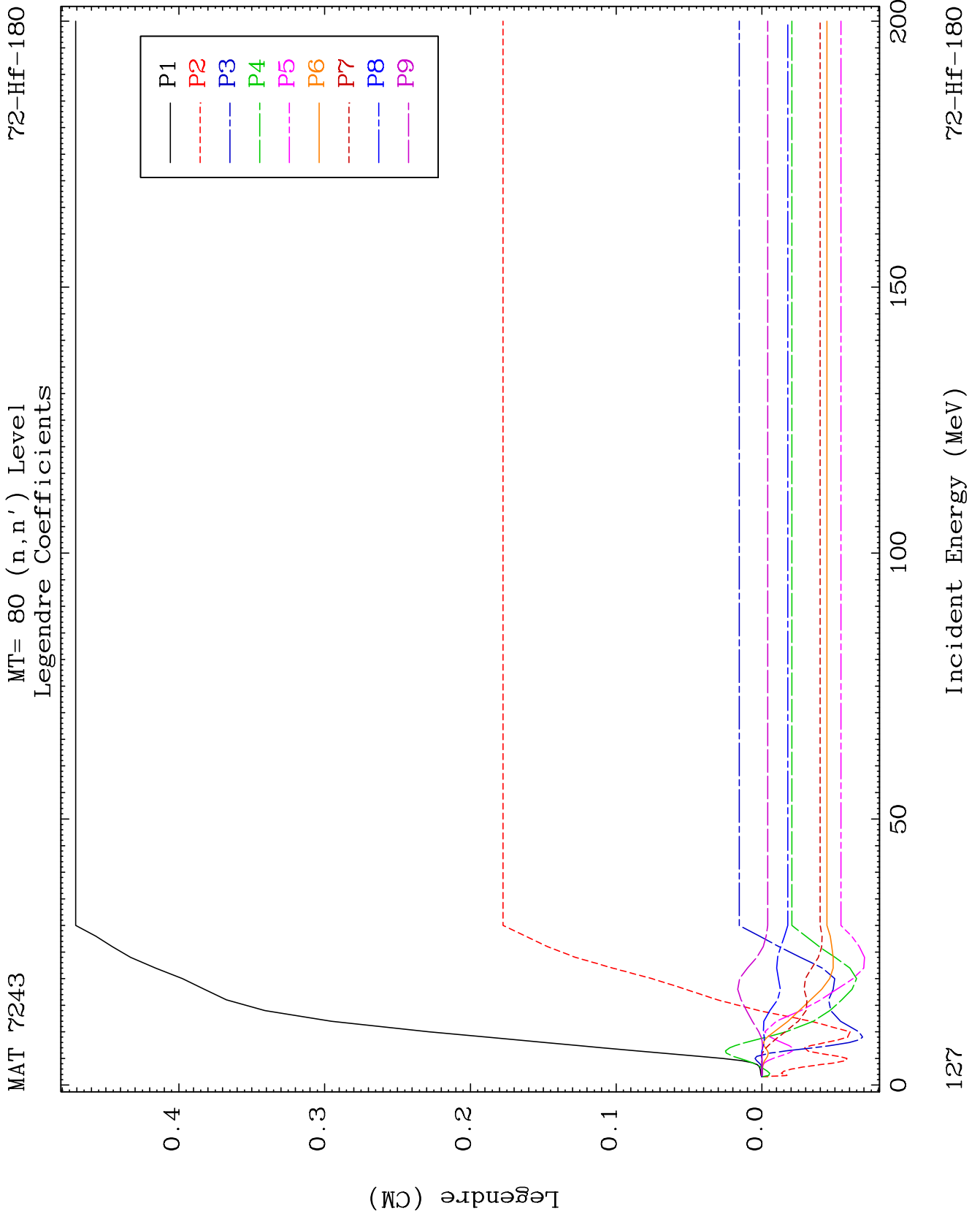


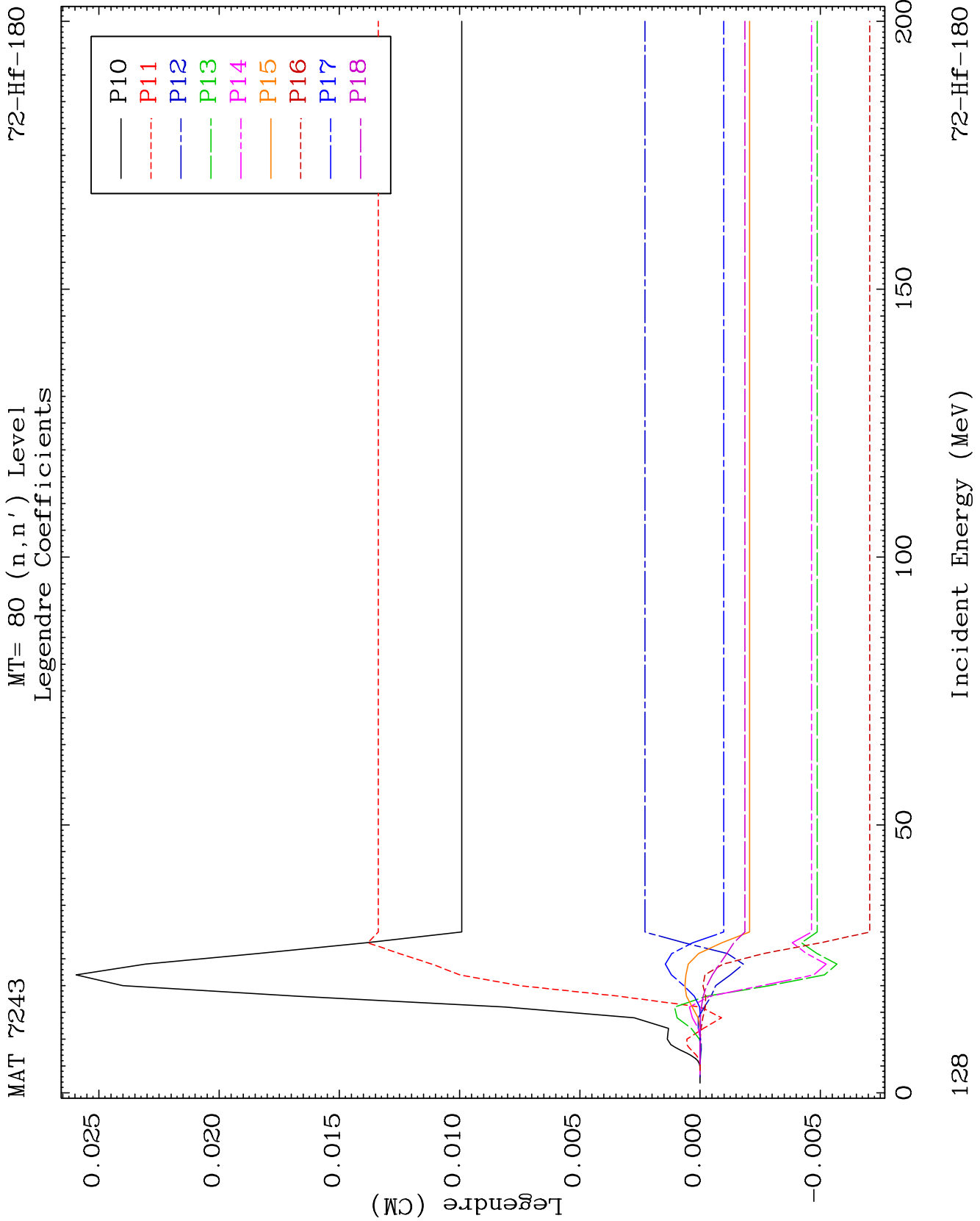
125

Incident Energy (MeV)

72-Hf-180



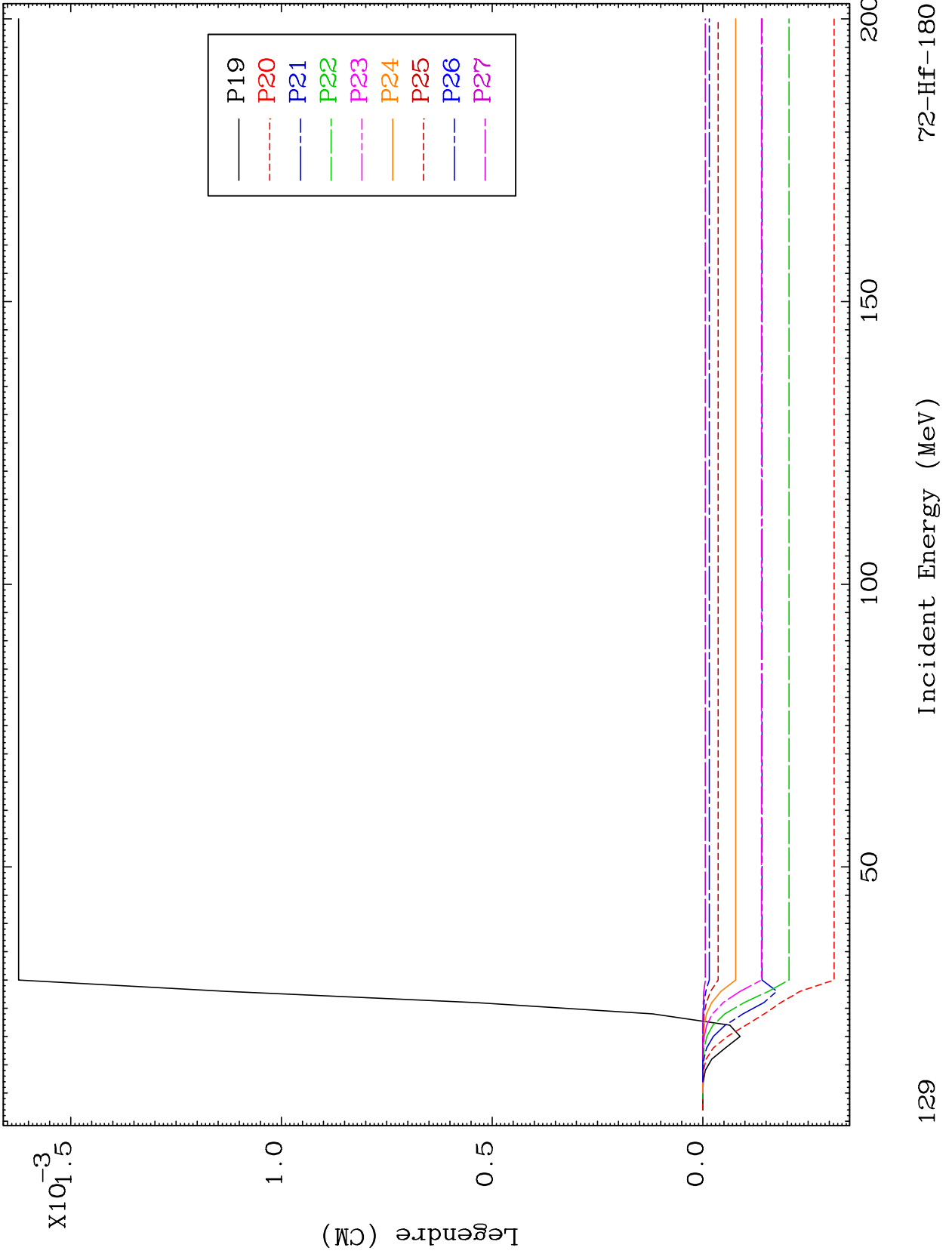




MAT 7243

MT= 80 (n,n') Level
Legendre Coefficients

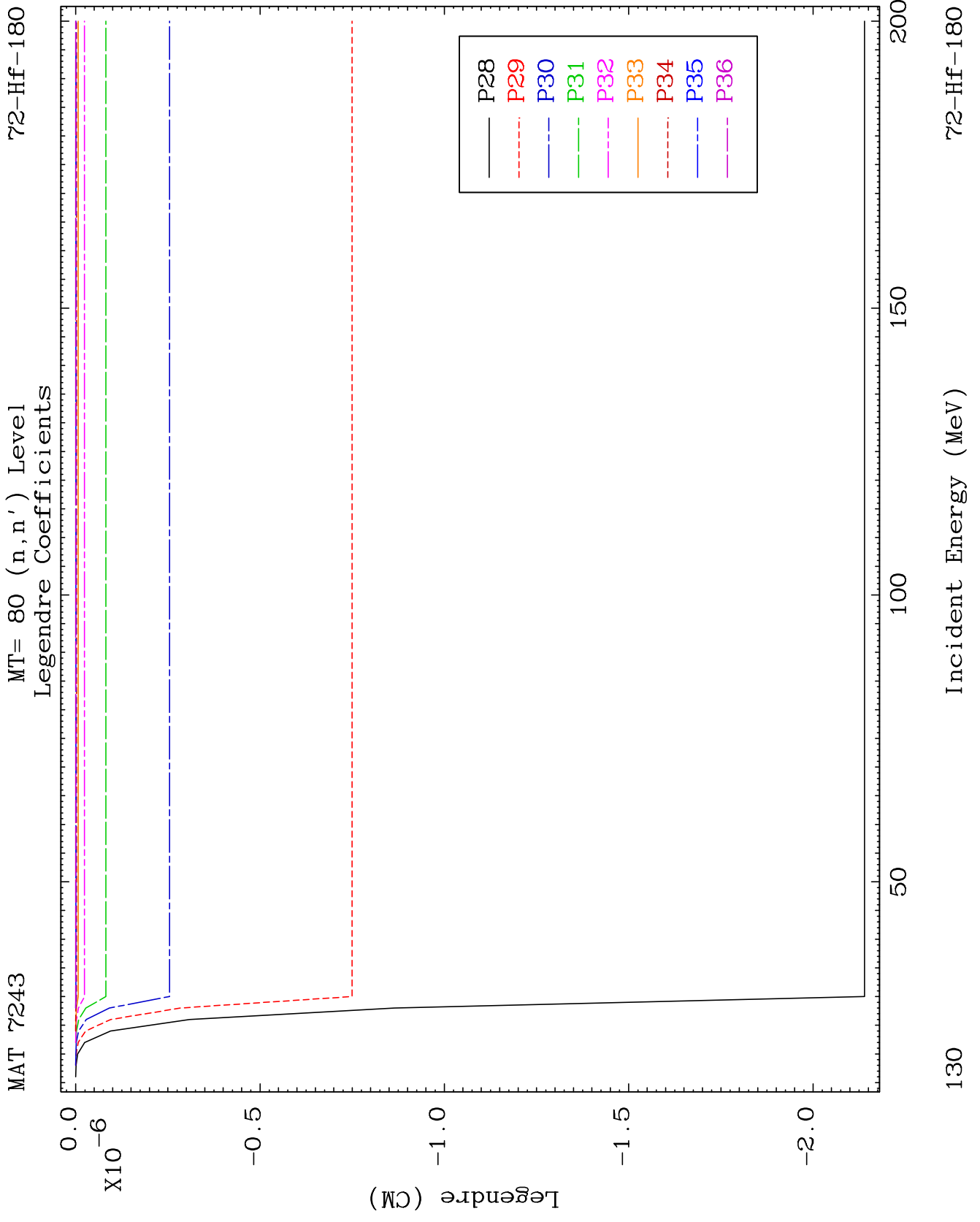
72-Hf-180



129

Incident Energy (MeV)

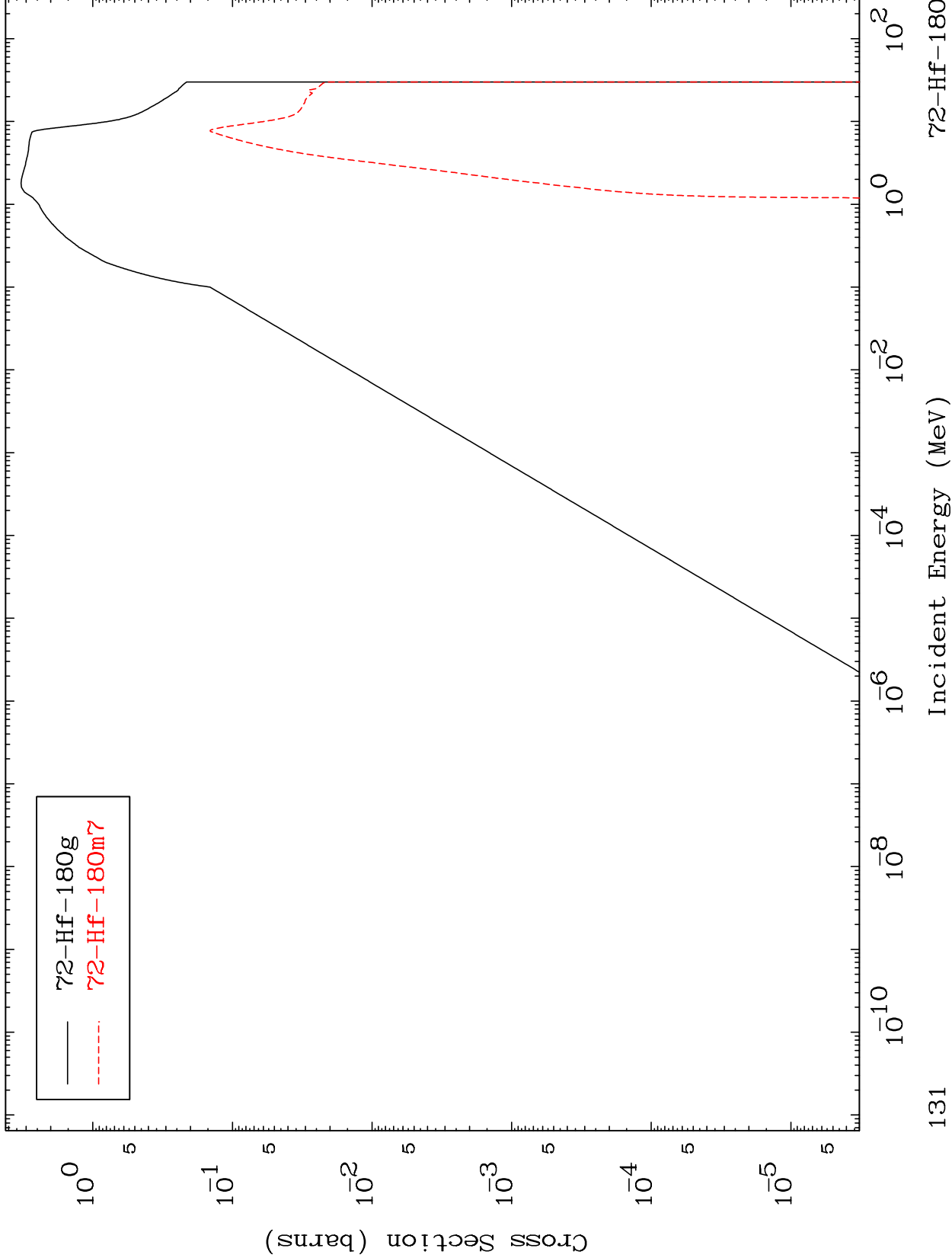
72-Hf-180



MAT 7243

Radionuclide Production Cross Section

72-Hf-180

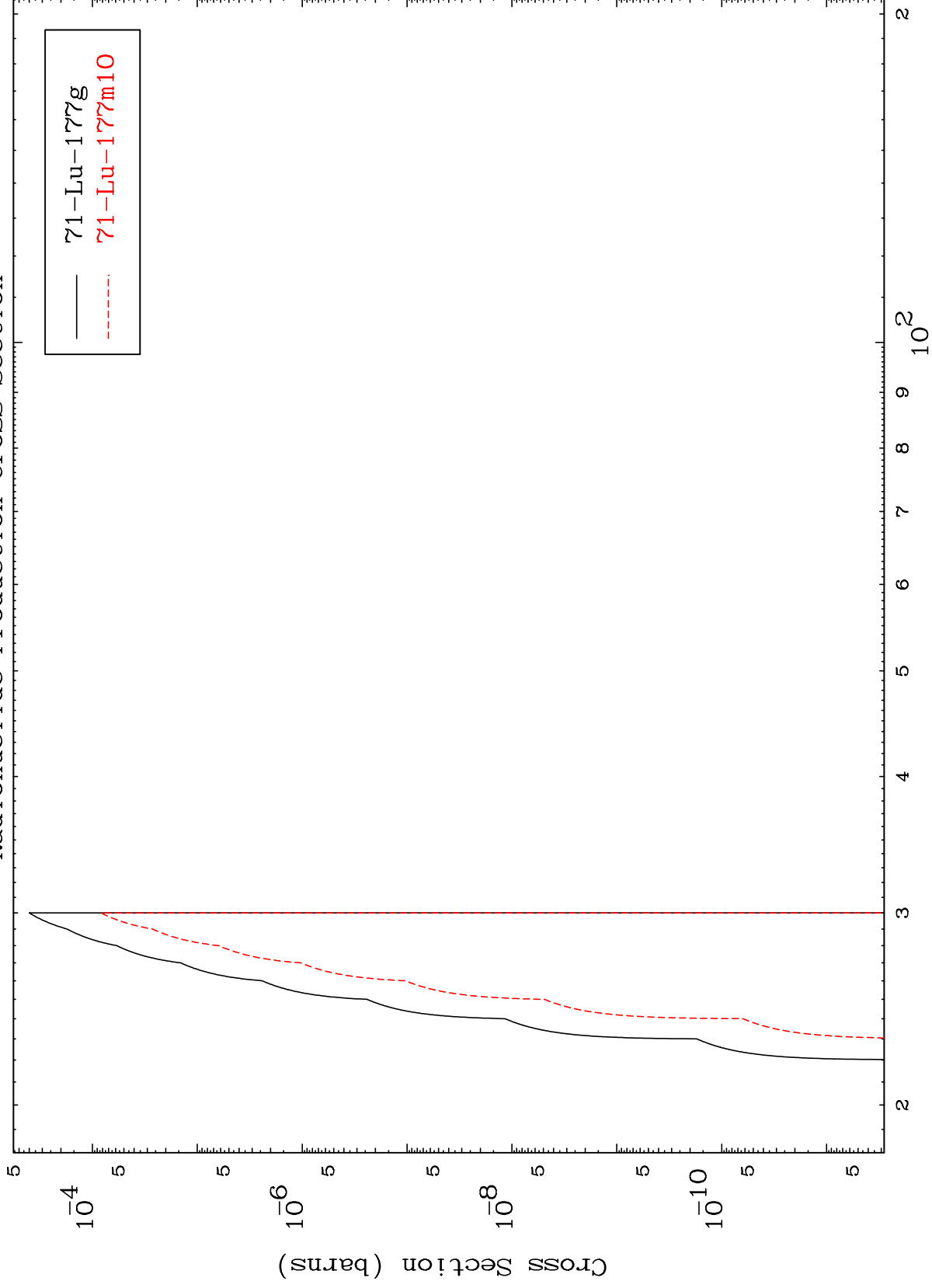


MAT 7243

(n,2n) d

72-Hf-180

Radionuclide Production Cross Section



132

Incident Energy (MeV)

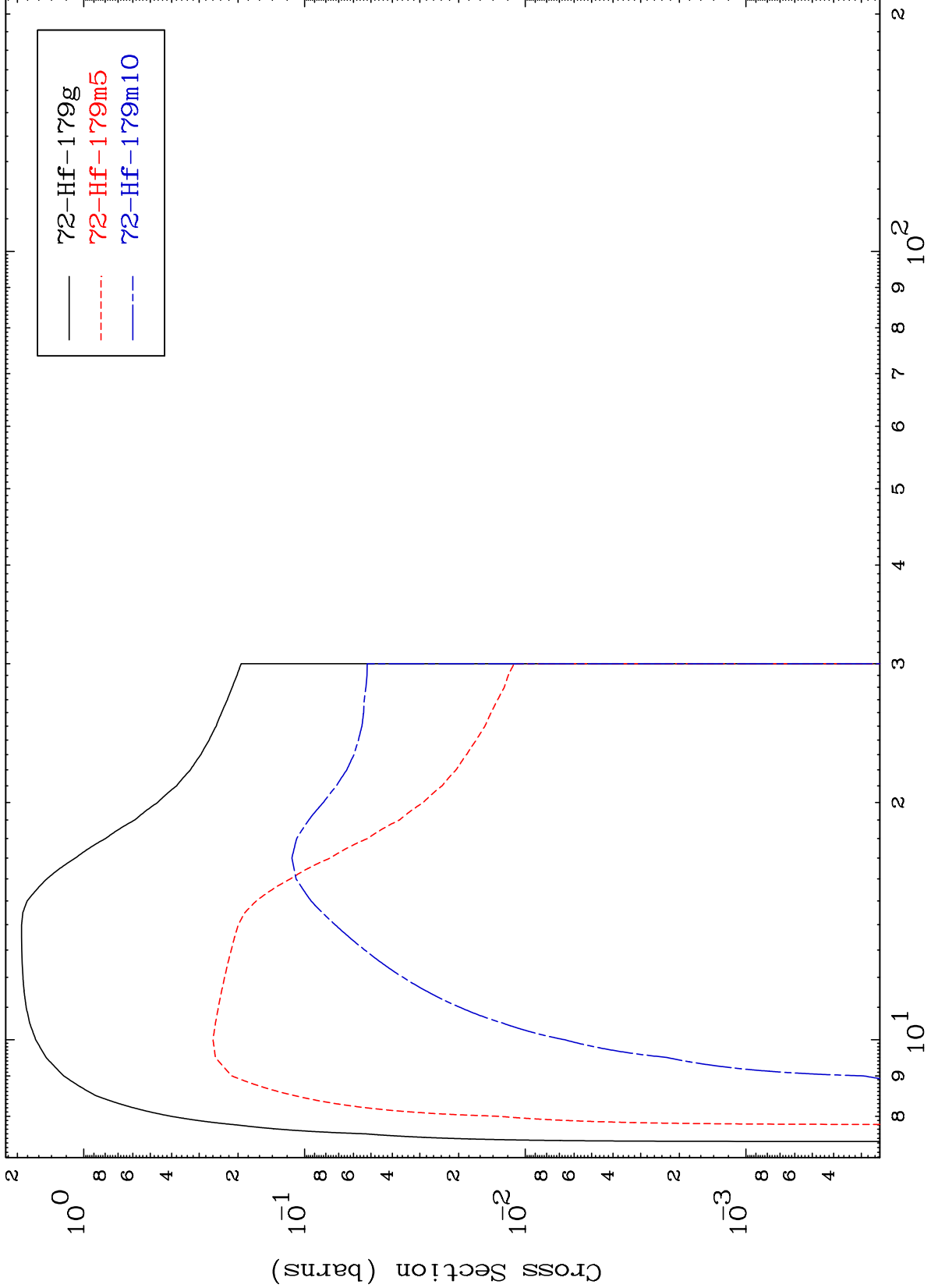
72-Hf-180

MAT 7243

(n,2n)

72-Hf-180

Radionuclide Production Cross Section



133

Incident Energy (MeV)

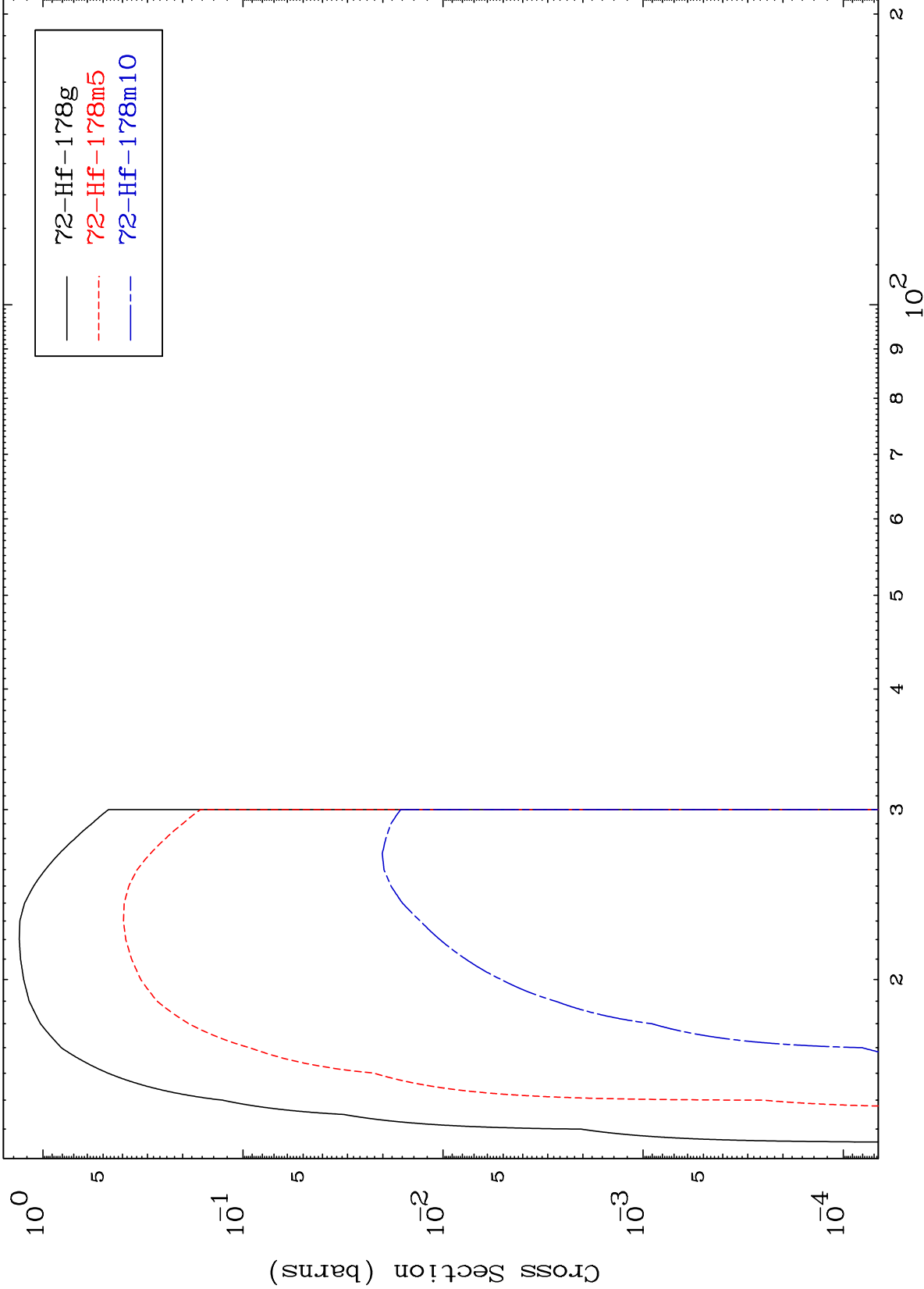
72-Hf-180

MAT 7243

(n,3n)

72-Hf-180

Radionuclide Production Cross Section



72-Hf-178g
72-Hf-178m5
72-Hf-178m10

134

Incident Energy (MeV)

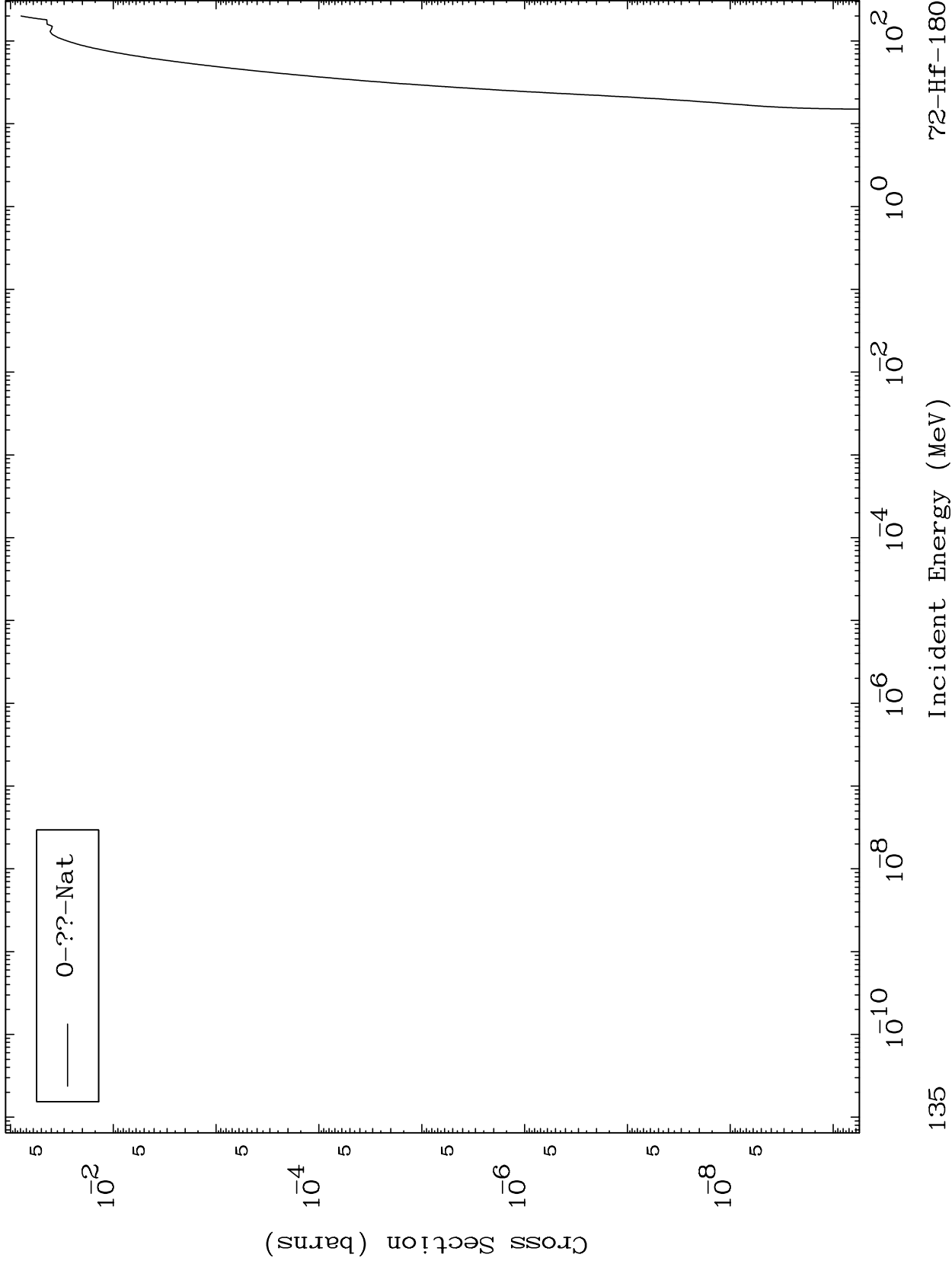
72-Hf-180

MAT 7243

Fission

72-Hf-180

Radionuclide Production Cross Section



135

Incident Energy (MeV)

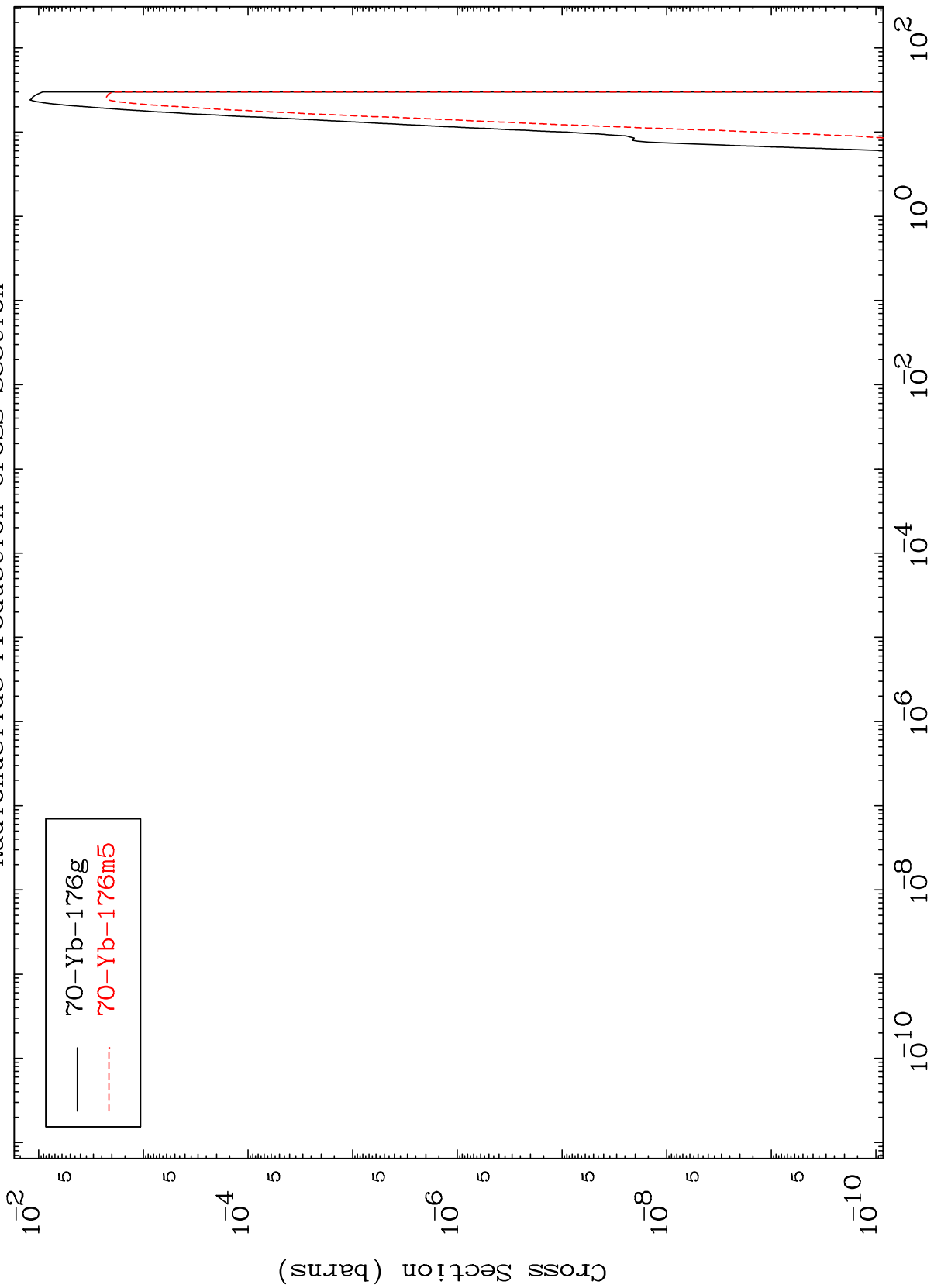
72-Hf-180

MAT 7243

$(n, n') \alpha$

72-Hf-180

Radionuclide Production Cross Section



136

Incident Energy (MeV)

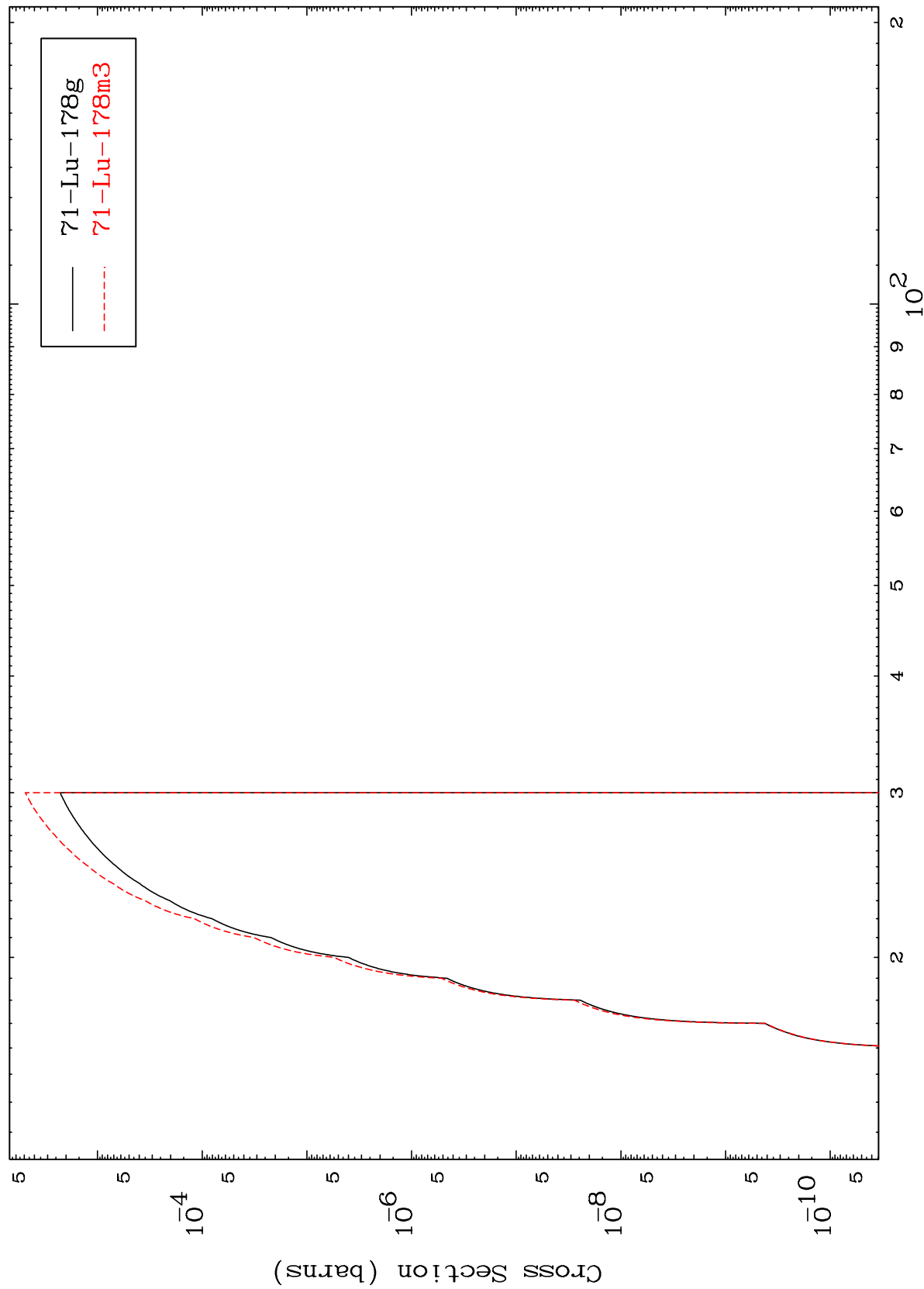
72-Hf-180

MAT 7243

(n,n') d

72-Hf-180

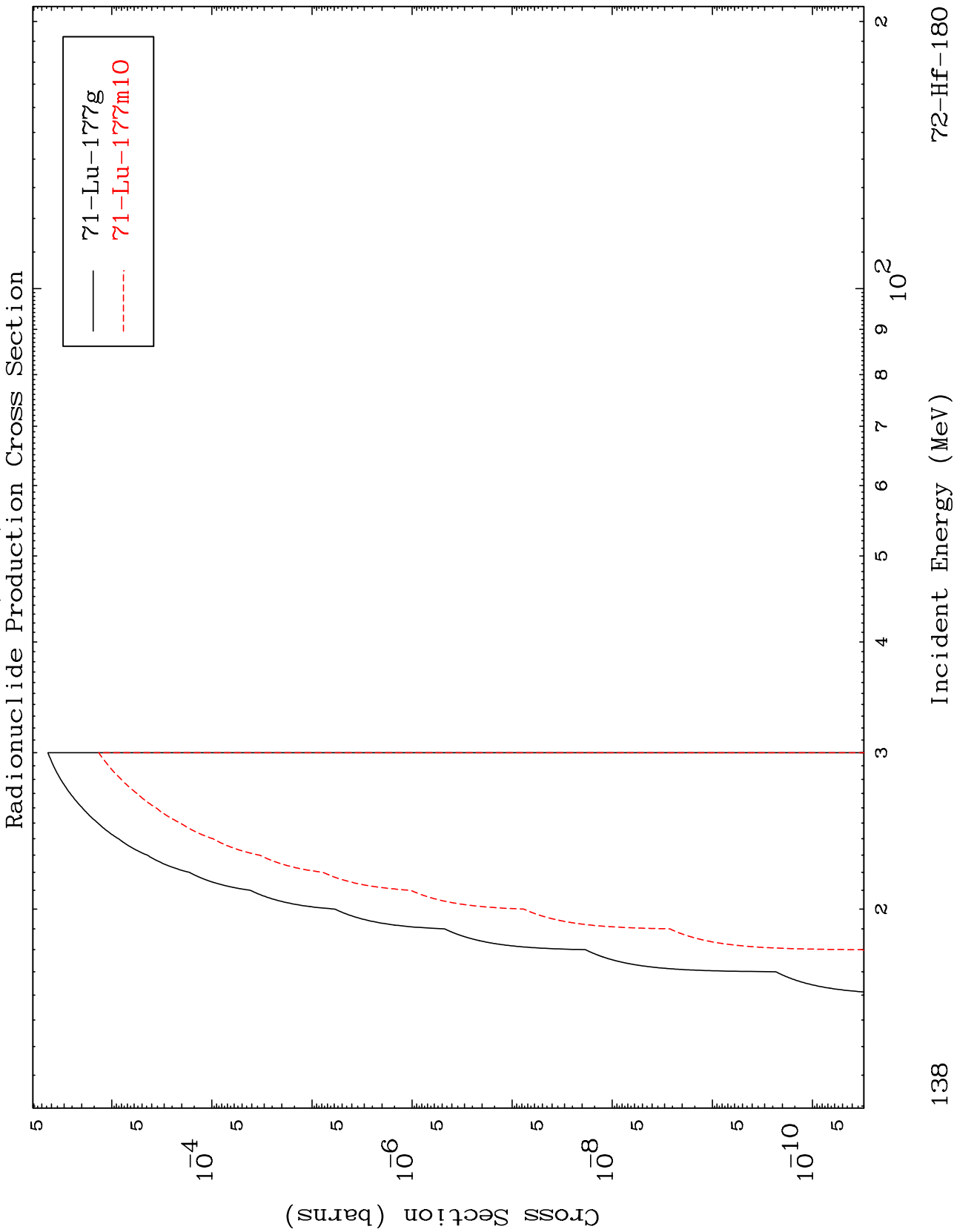
Radionuclide Production Cross Section



137

Incident Energy (MeV)

72-Hf-180

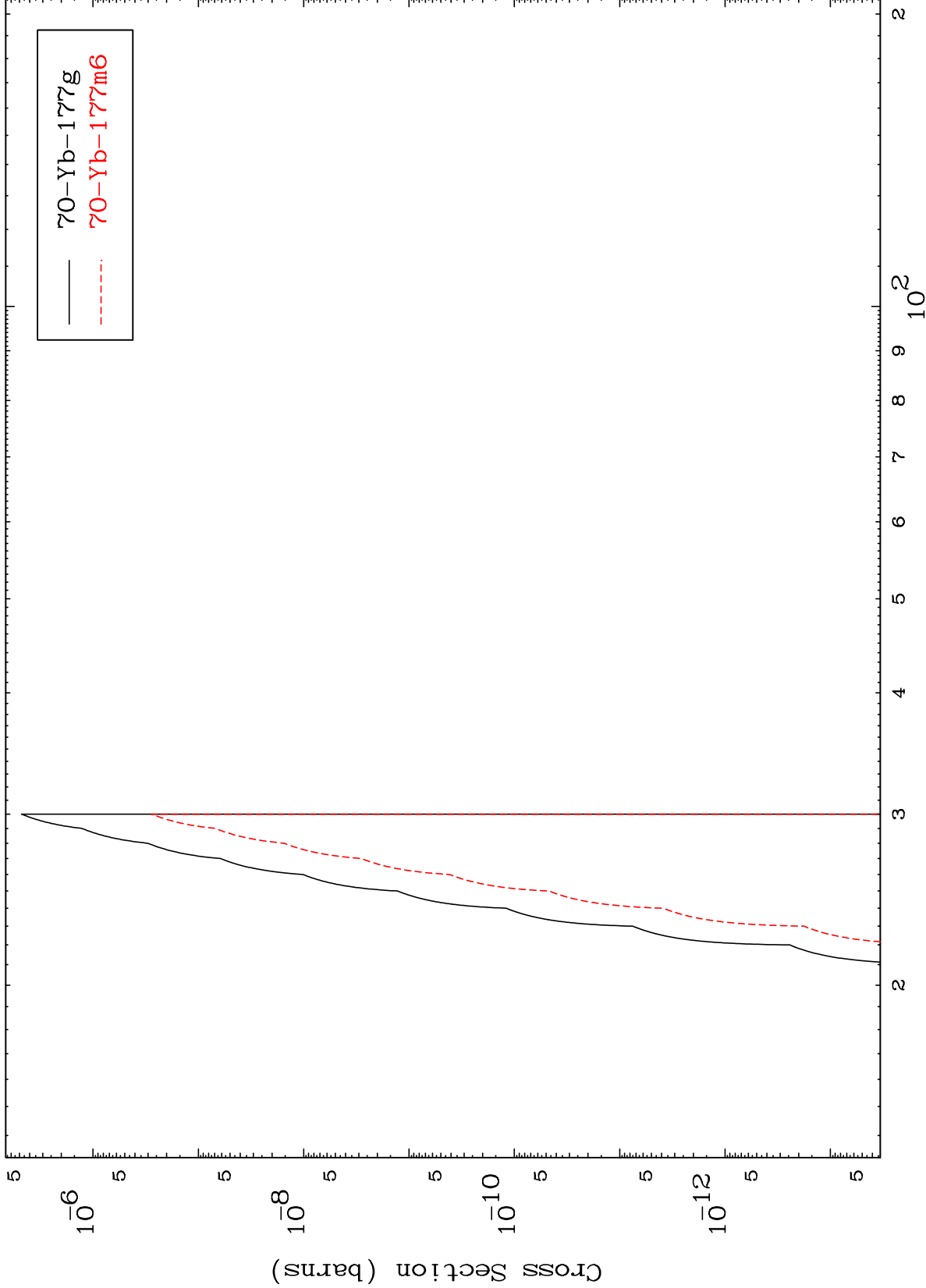


MAT 7243

(n,n') He-3

72-Hf-180

Radionuclide Production Cross Section

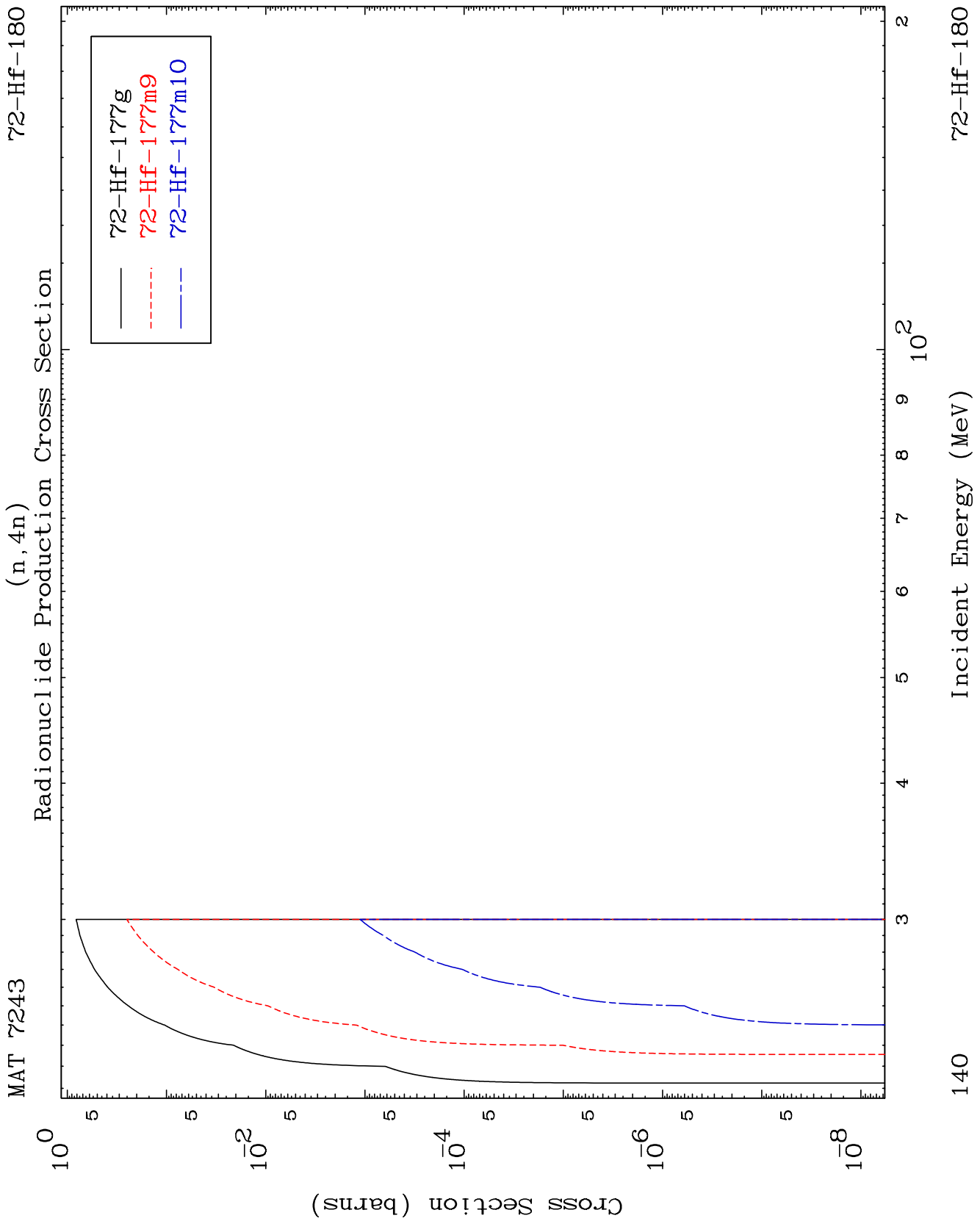


70-Yb-177g
70-Yb-177m6

139

Incident Energy (MeV)

72-Hf-180

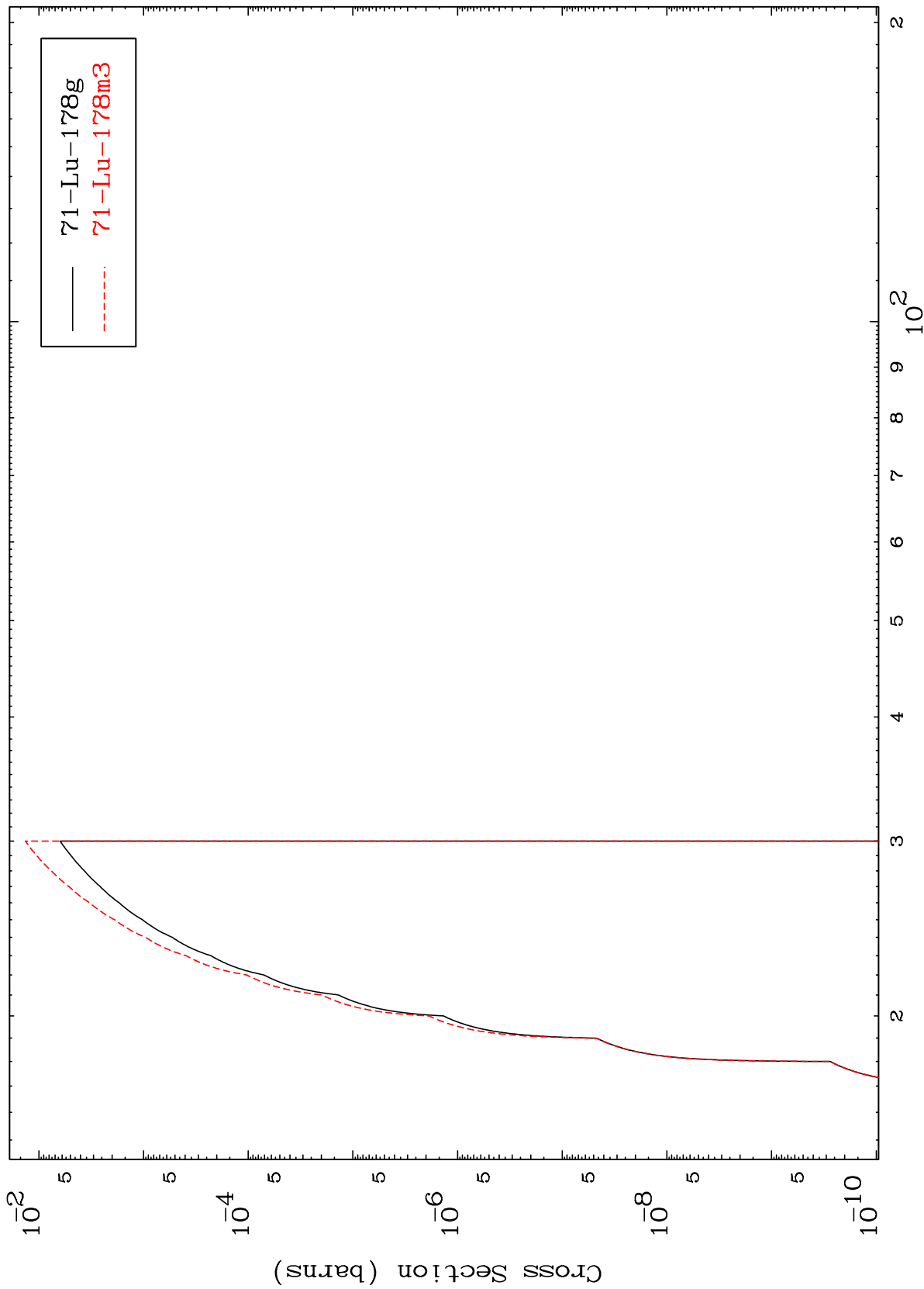


MAT 7243

(n,2n) p

72-Hf-180

Radionuclide Production Cross Section



141

Incident Energy (MeV)

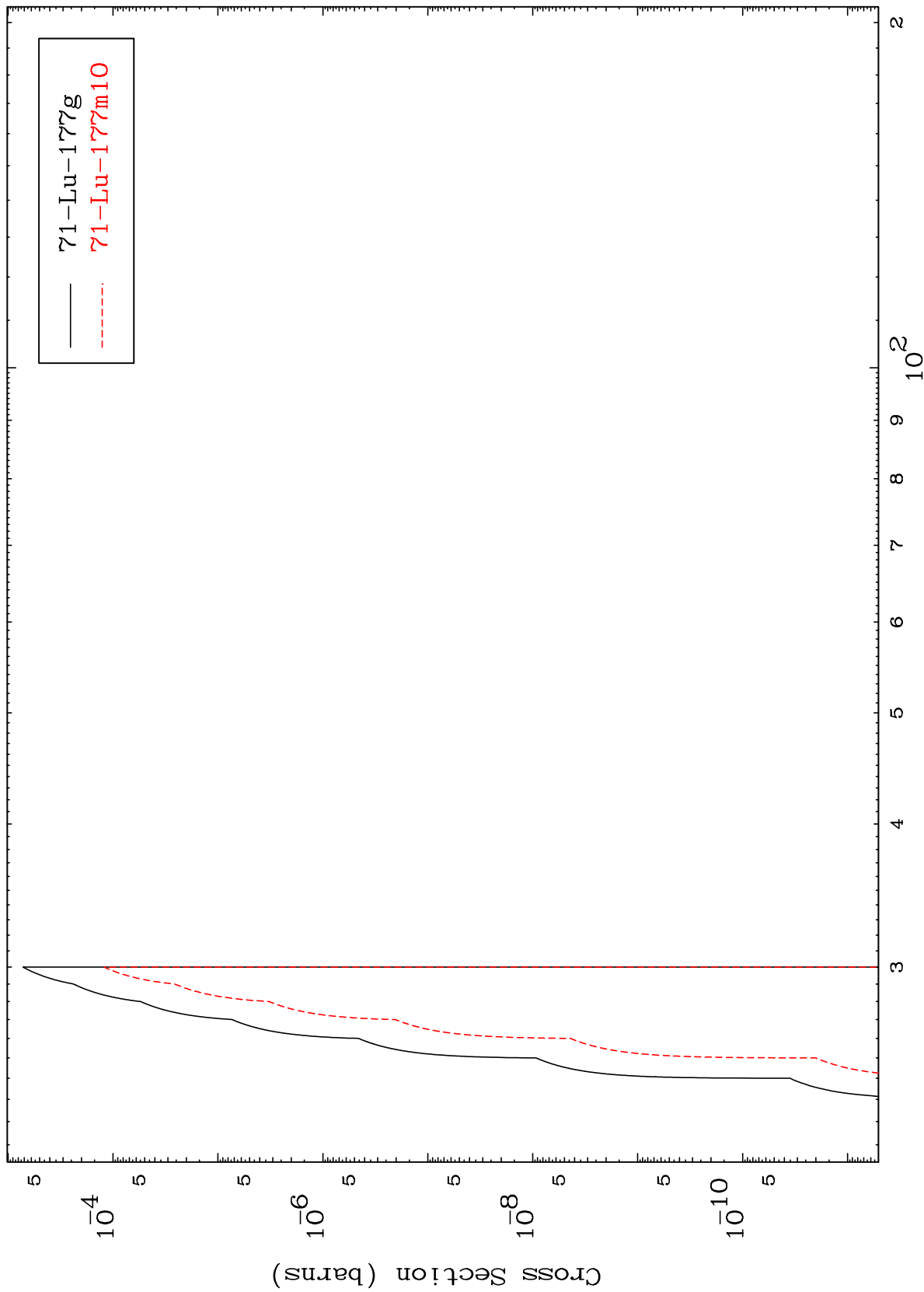
72-Hf-180

MAT 7243

(n,3n) p

72-Hf-180

Radionuclide Production Cross Section



142

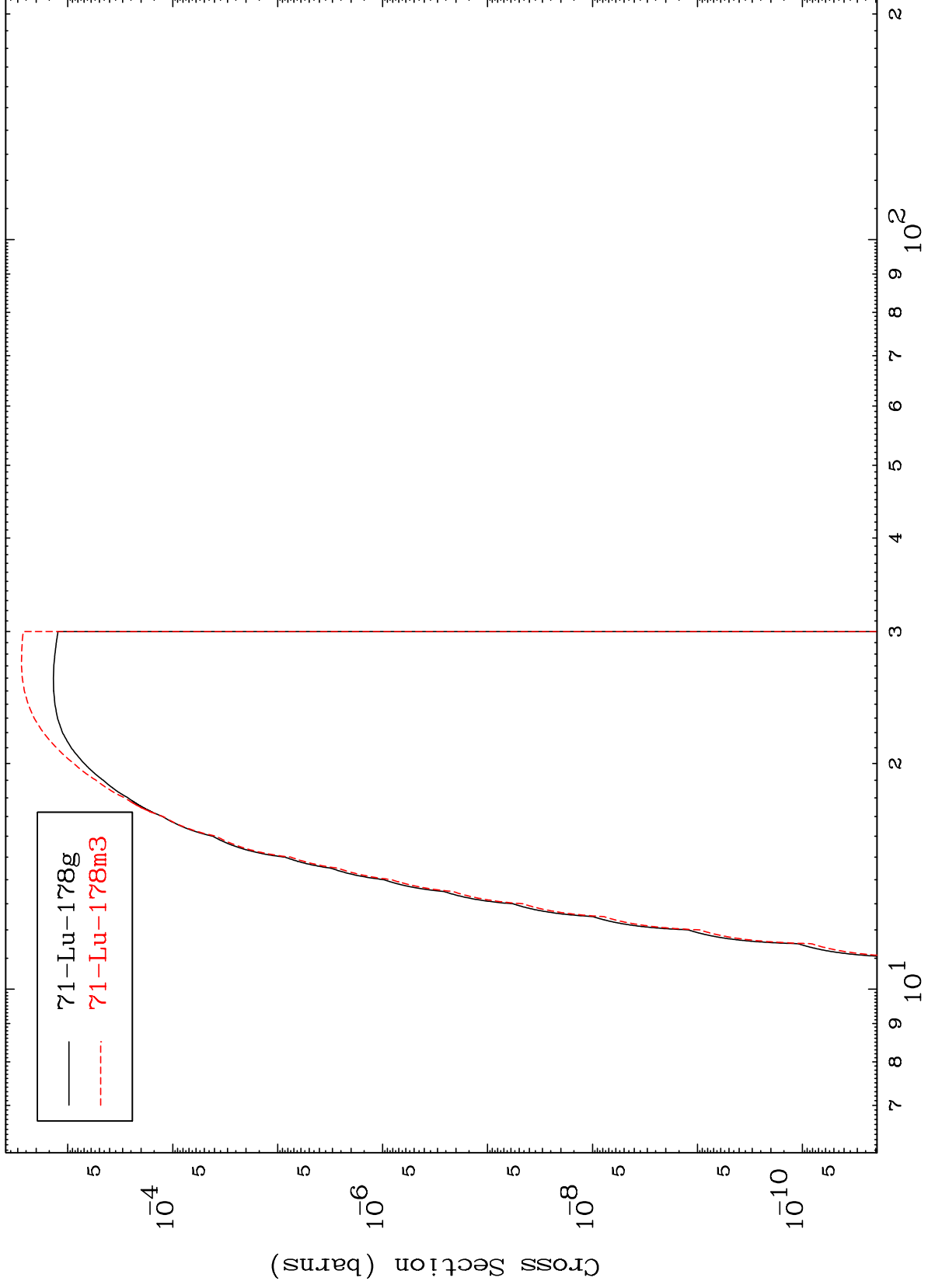
Incident Energy (MeV)

72-Hf-180

MAT 7243

72-Hf-180

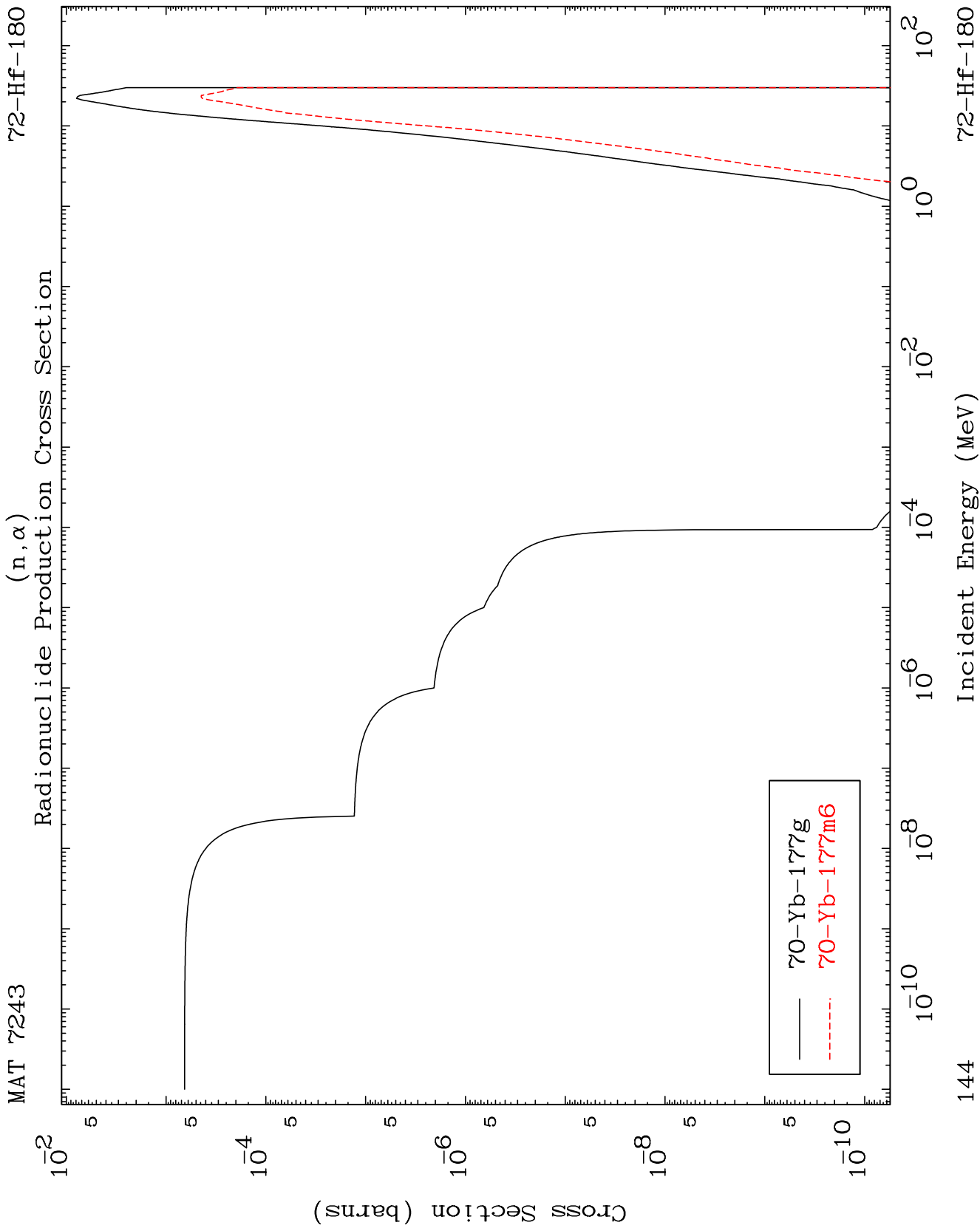
(n,t)
Radionuclide Production Cross Section



143

Incident Energy (MeV)

72-Hf-180

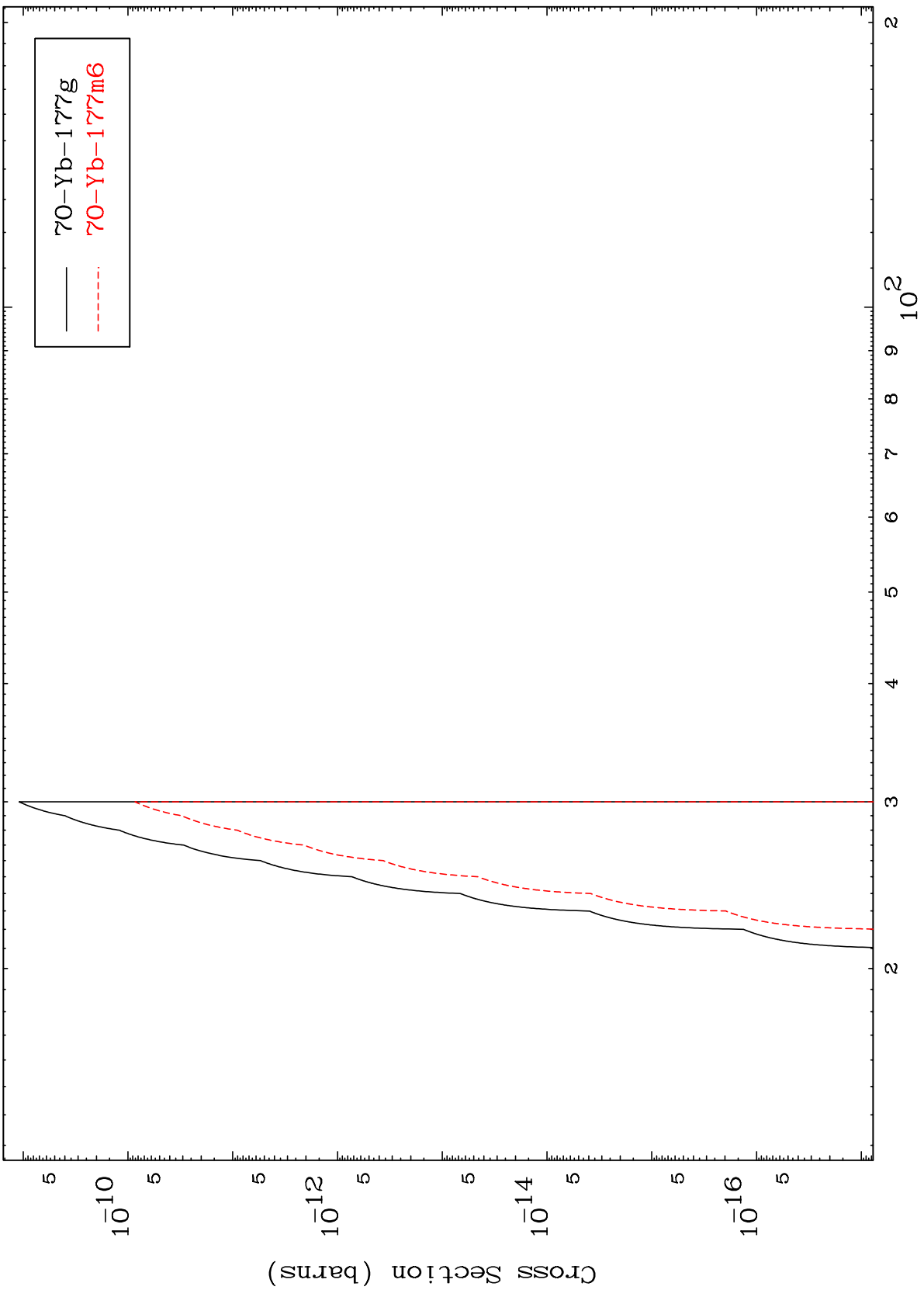


MAT 7243

(n,p) t

72-Hf-180

Radionuclide Production Cross Section



70-Yb-177g
70-Yb-177m6

145

Incident Energy (MeV)

72-Hf-180