

Program EVALPLOT  
(Version 2018-1)

by

Dermott E. Cullen  
(Present Contact Information)

Dermott E. Cullen  
1466 Hudson Way  
Livermore, CA 94550  
U.S.A.

Tele: 925-443-1911

E.Mail:redcullen1@comcast.net

Web:redcullen1.net/HOMEPAGE.NEW

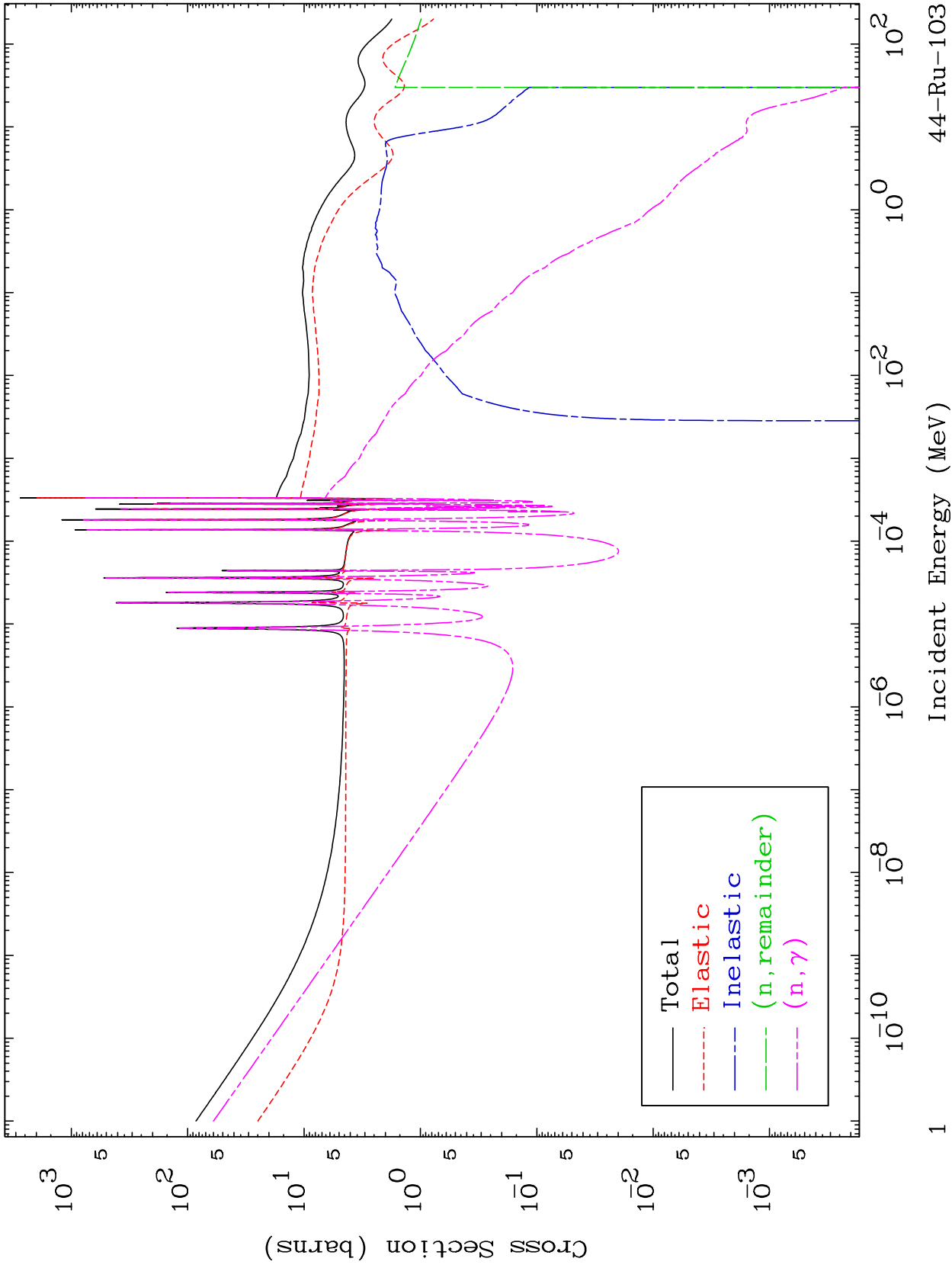
Press Mouse Button to Start

MAT 4446

Major

293 Kelvin Cross Sections

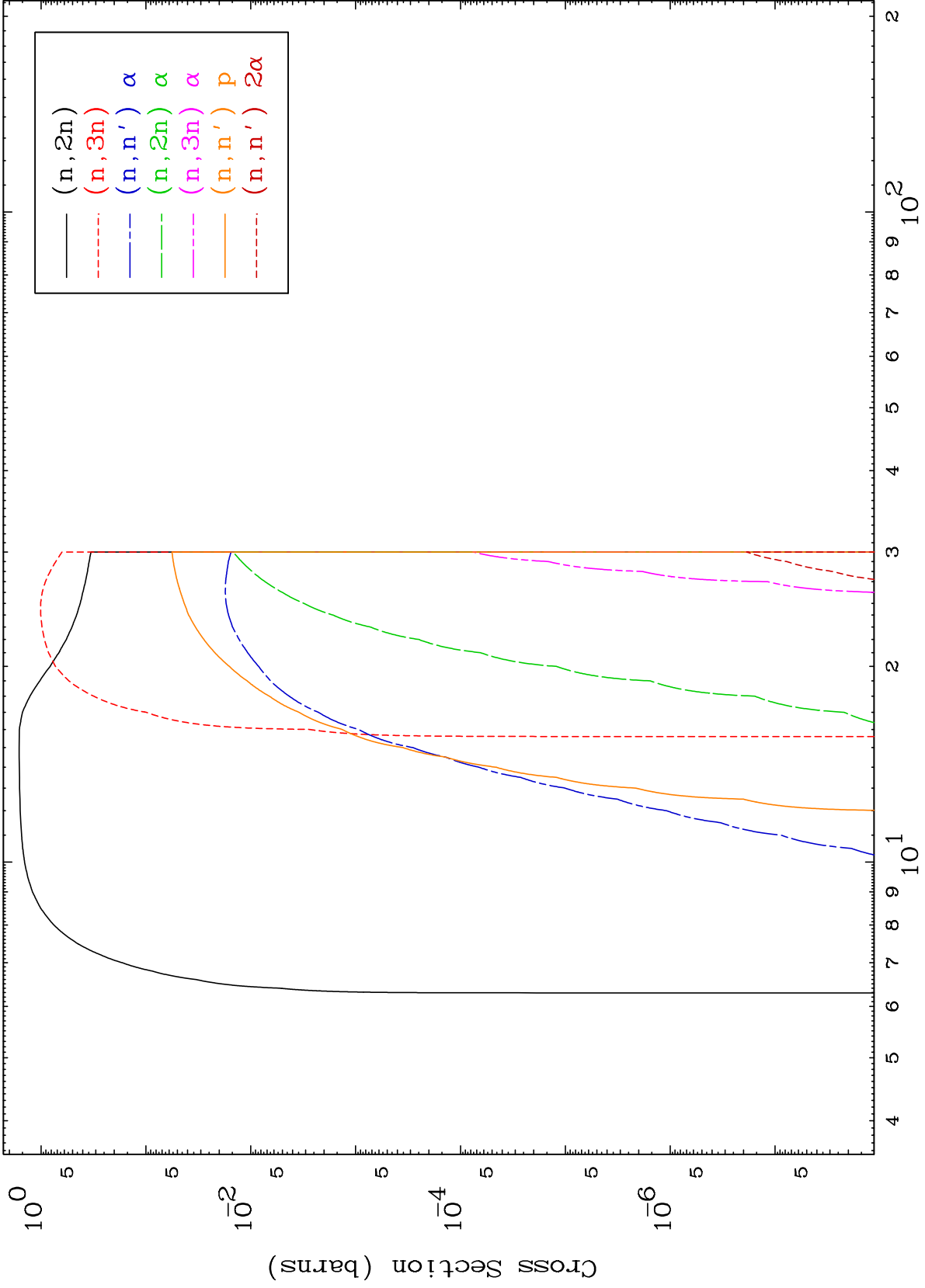
44-Ru-103



MAT 4446

Neutron Production  
293 Kelvin Cross Sections

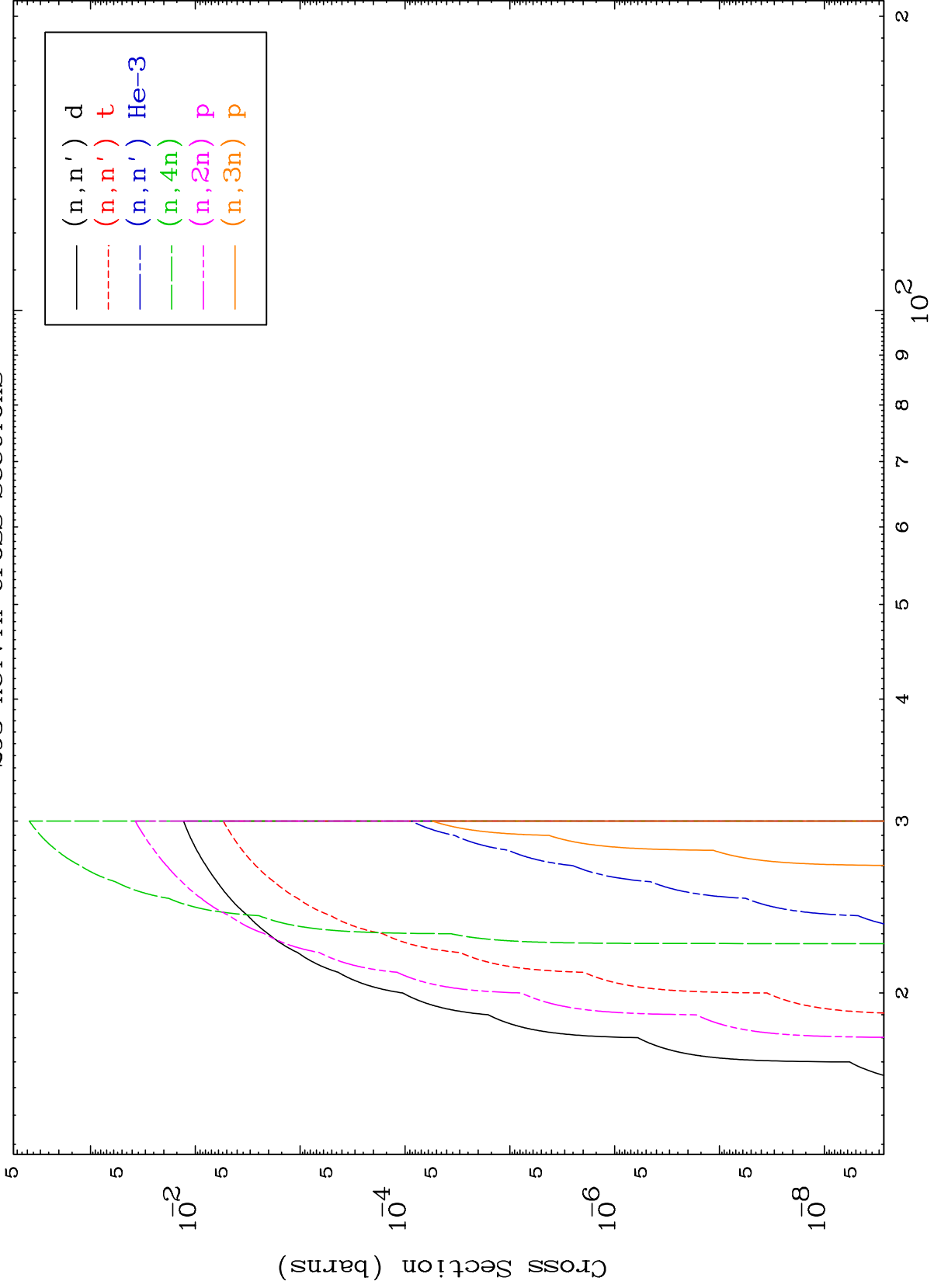
44-Ru-103



2

Incident Energy (MeV)

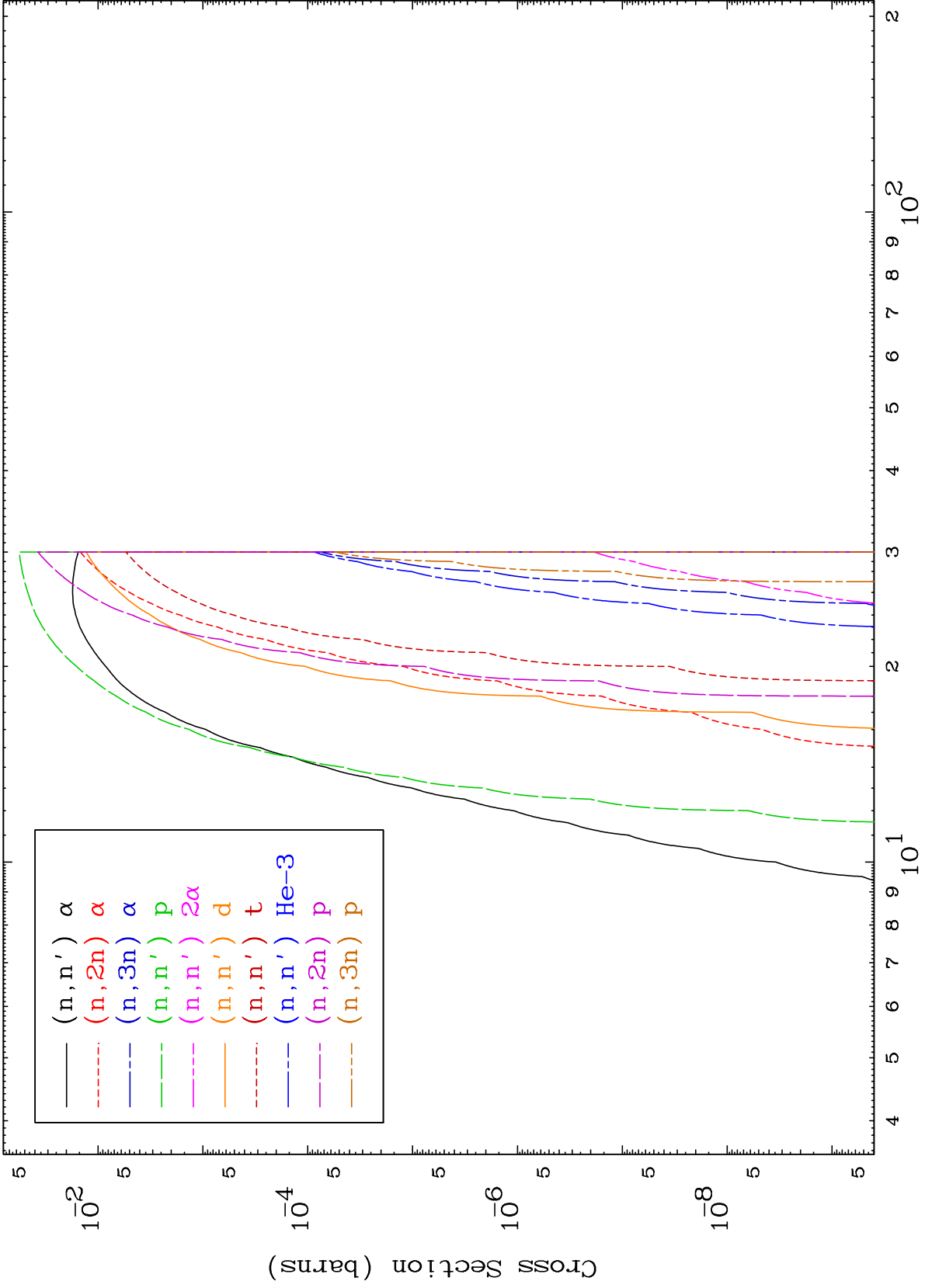
44-Ru-103



MAT 4446

Charged Particle  
293 Kelvin Cross Sections

44-Ru-103



4

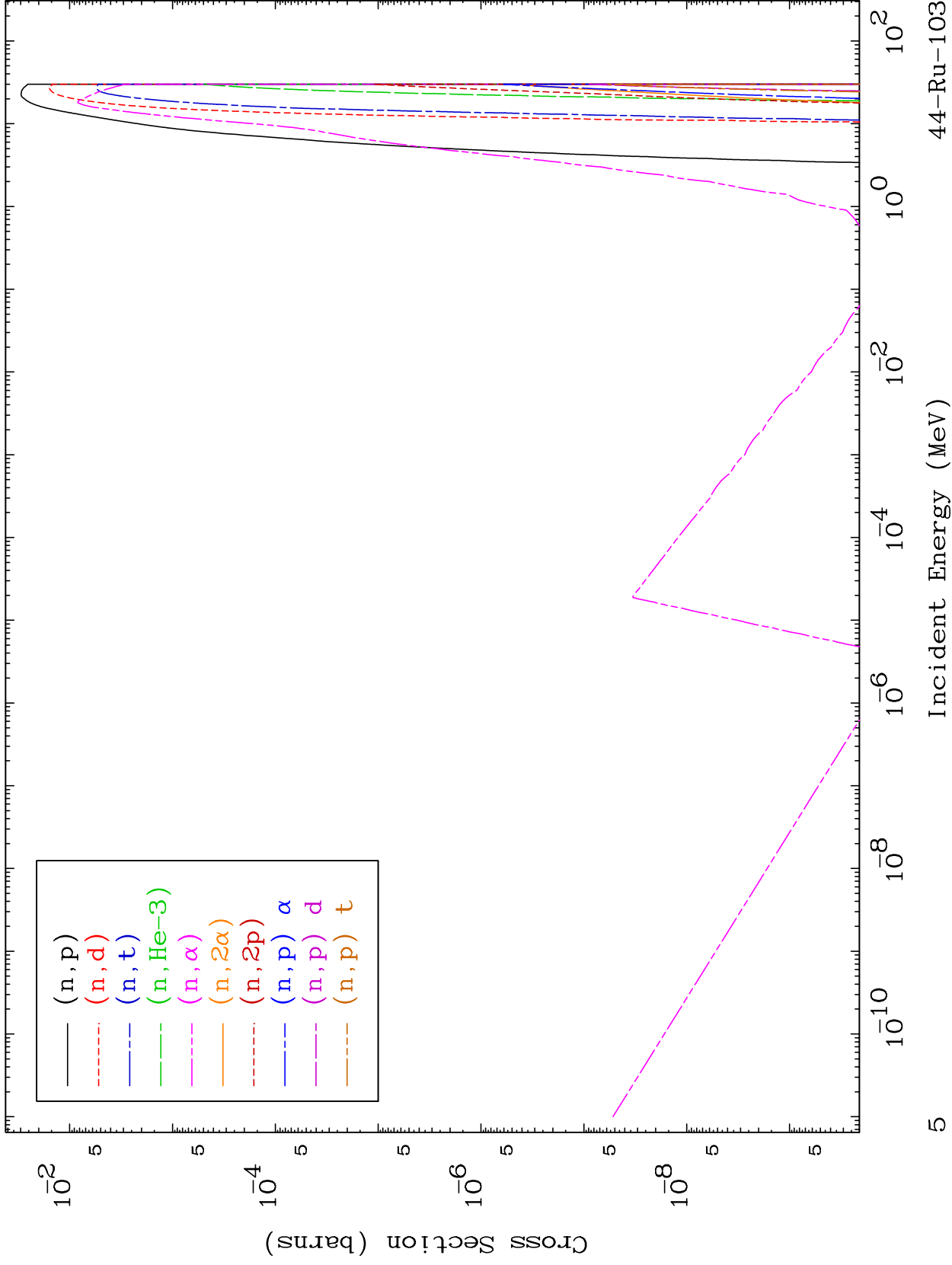
Incident Energy (MeV)

44-Ru-103

MAT 4446

Charged Particle  
293 Kelvin Cross Sections

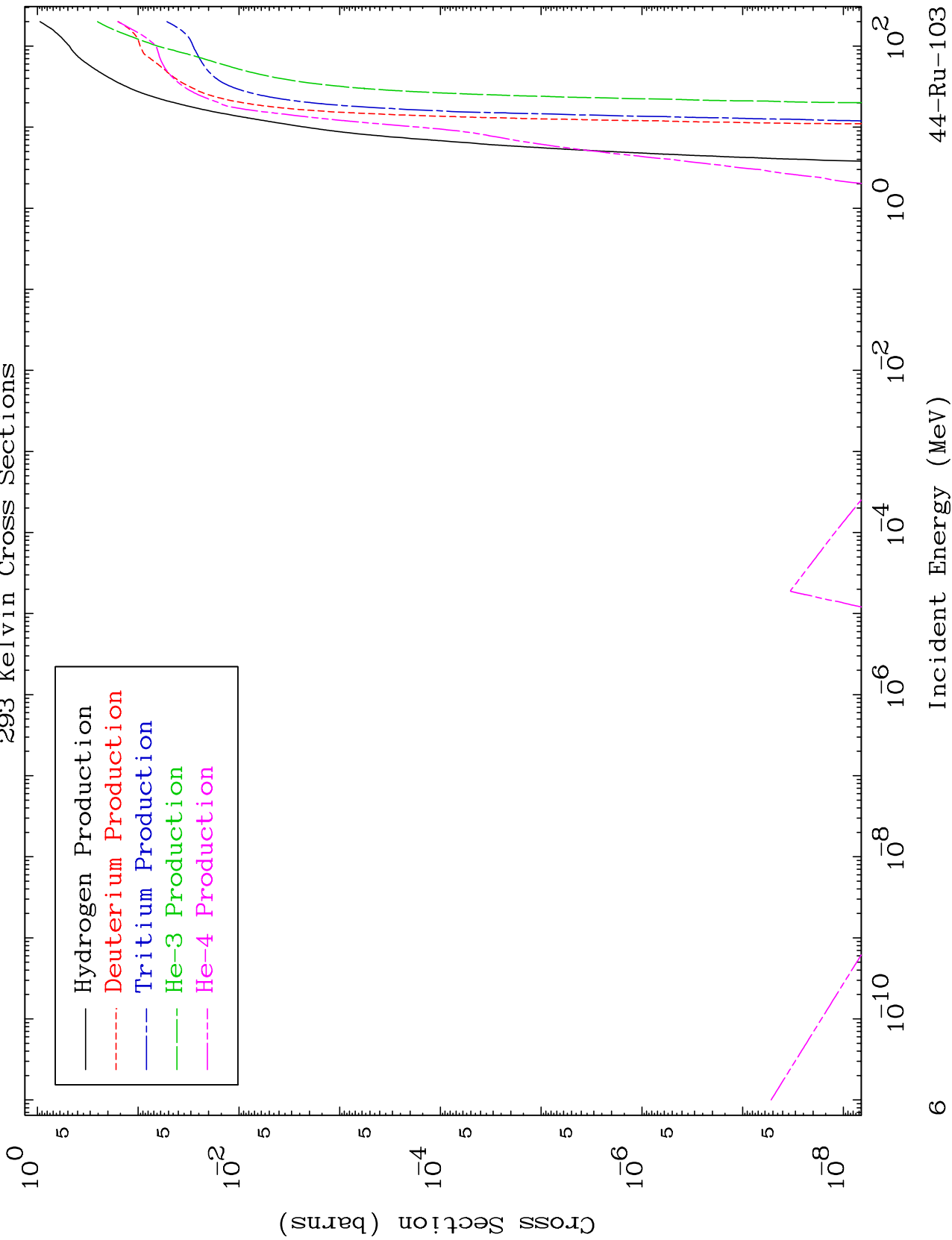
44-Ru-103



MAT 4446

Particle Production  
293 Kelvin Cross Sections

44-Ru-103

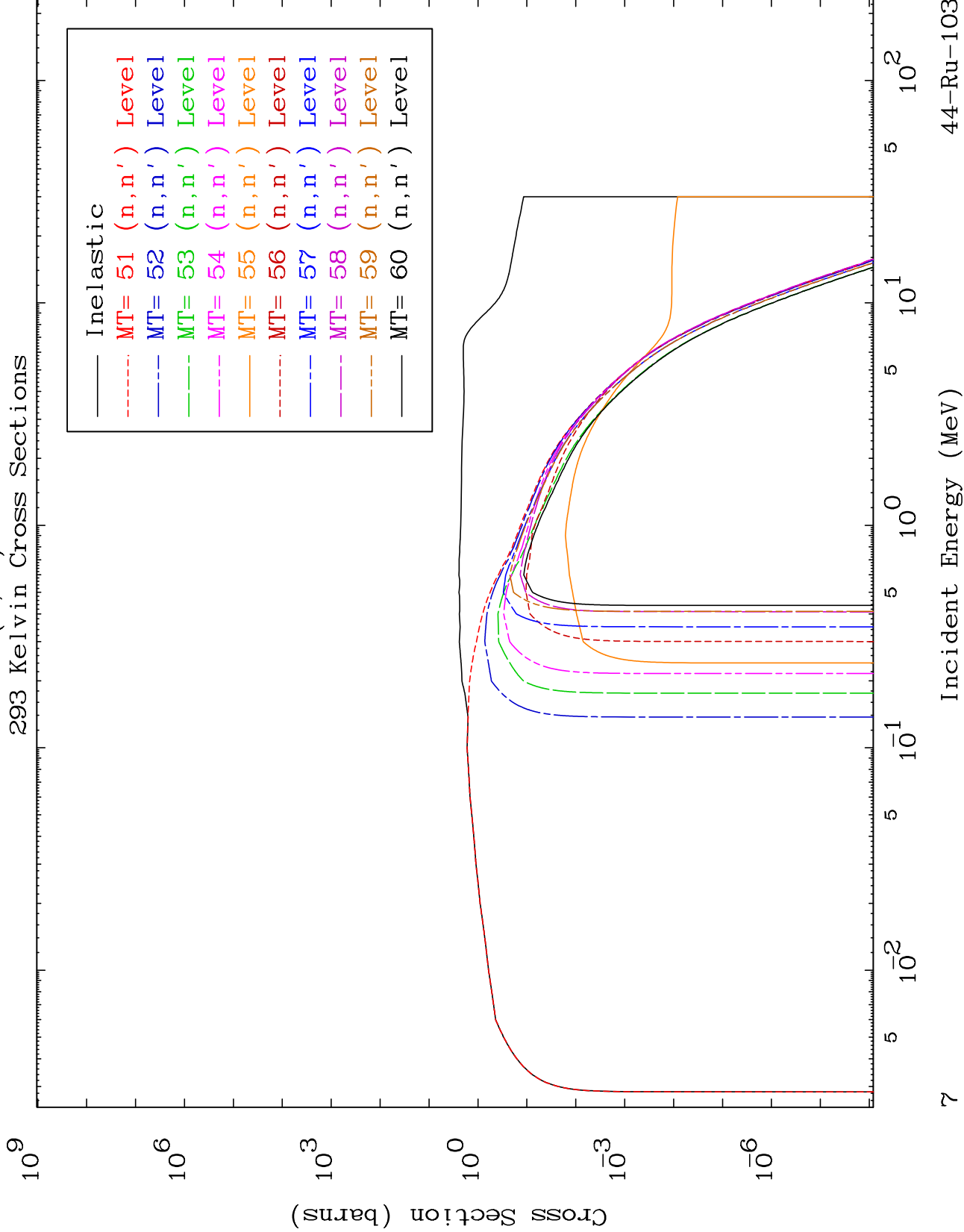


MAT 4446

(n,n') Level

293 Kelvin Cross Sections

44-Ru-103



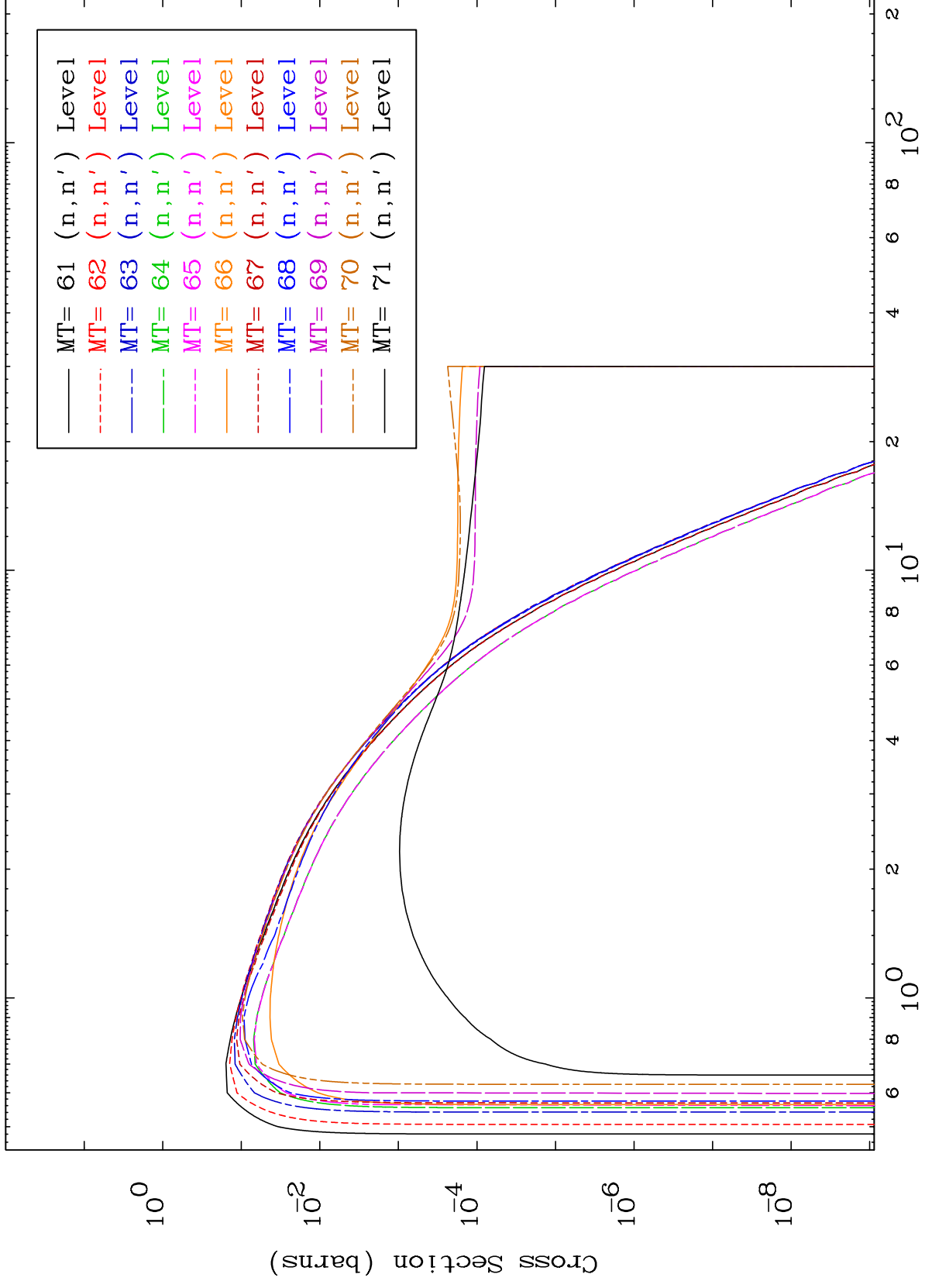


MAT 4446

(n,n') Level

293 Kelvin Cross Sections

44-Ru-103



8

Incident Energy (MeV)

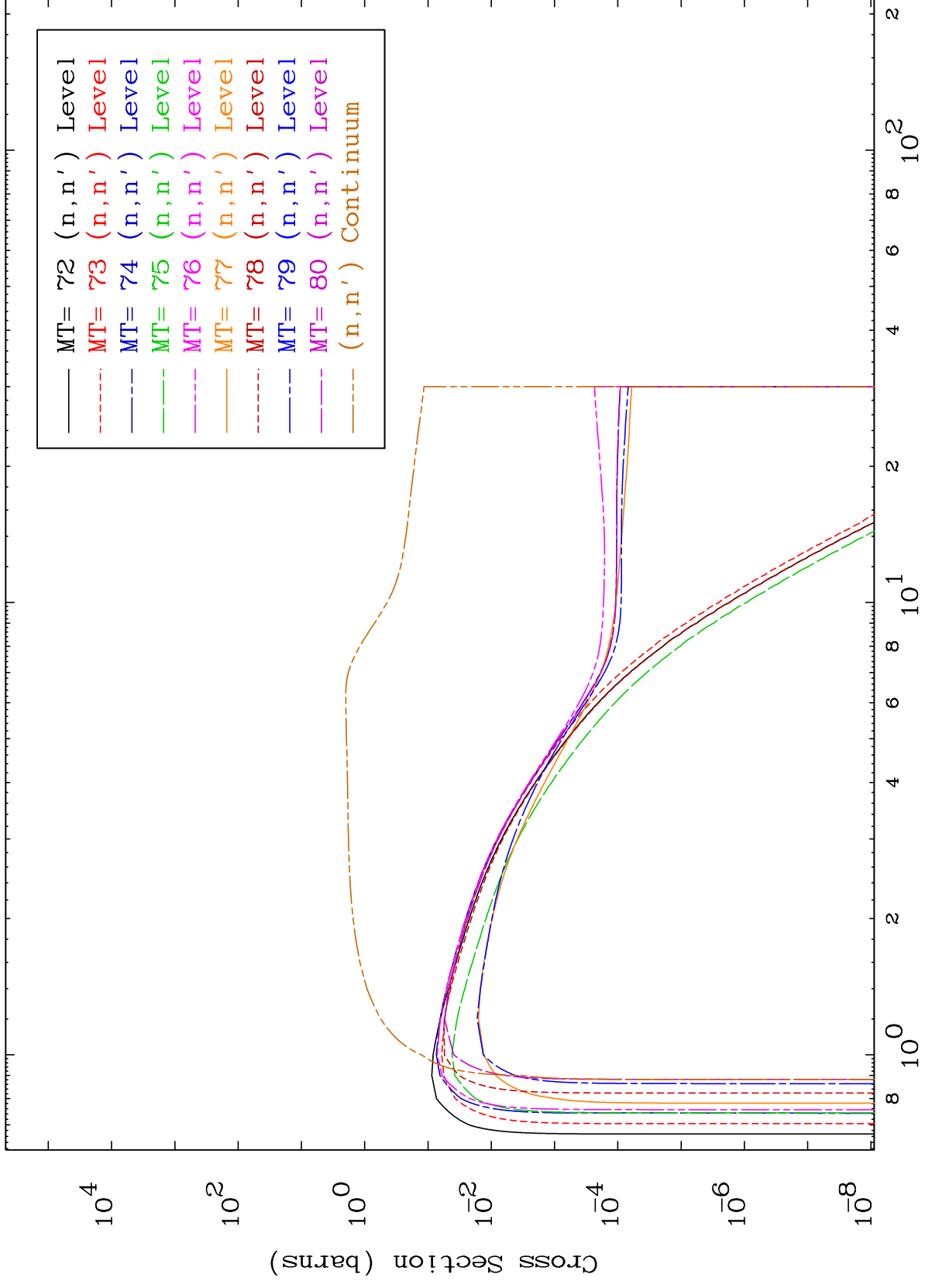
44-Ru-103

MAT 4446

(n,n') Level

44-Ru-103

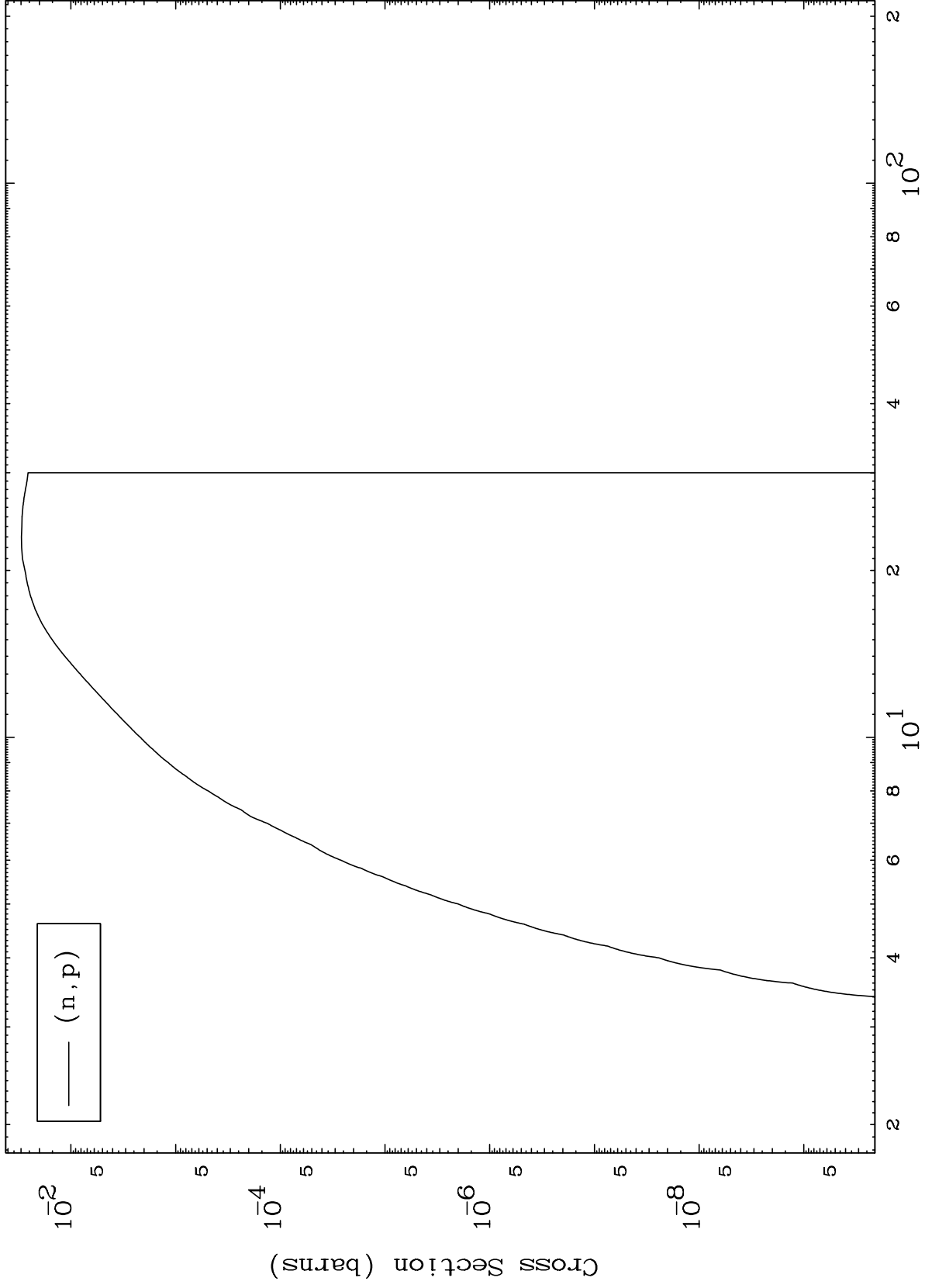
293 Kelvin Cross Sections



MAT 4446

(n,p) Levels  
293 Kelvin Cross Sections

44-Ru-103



10

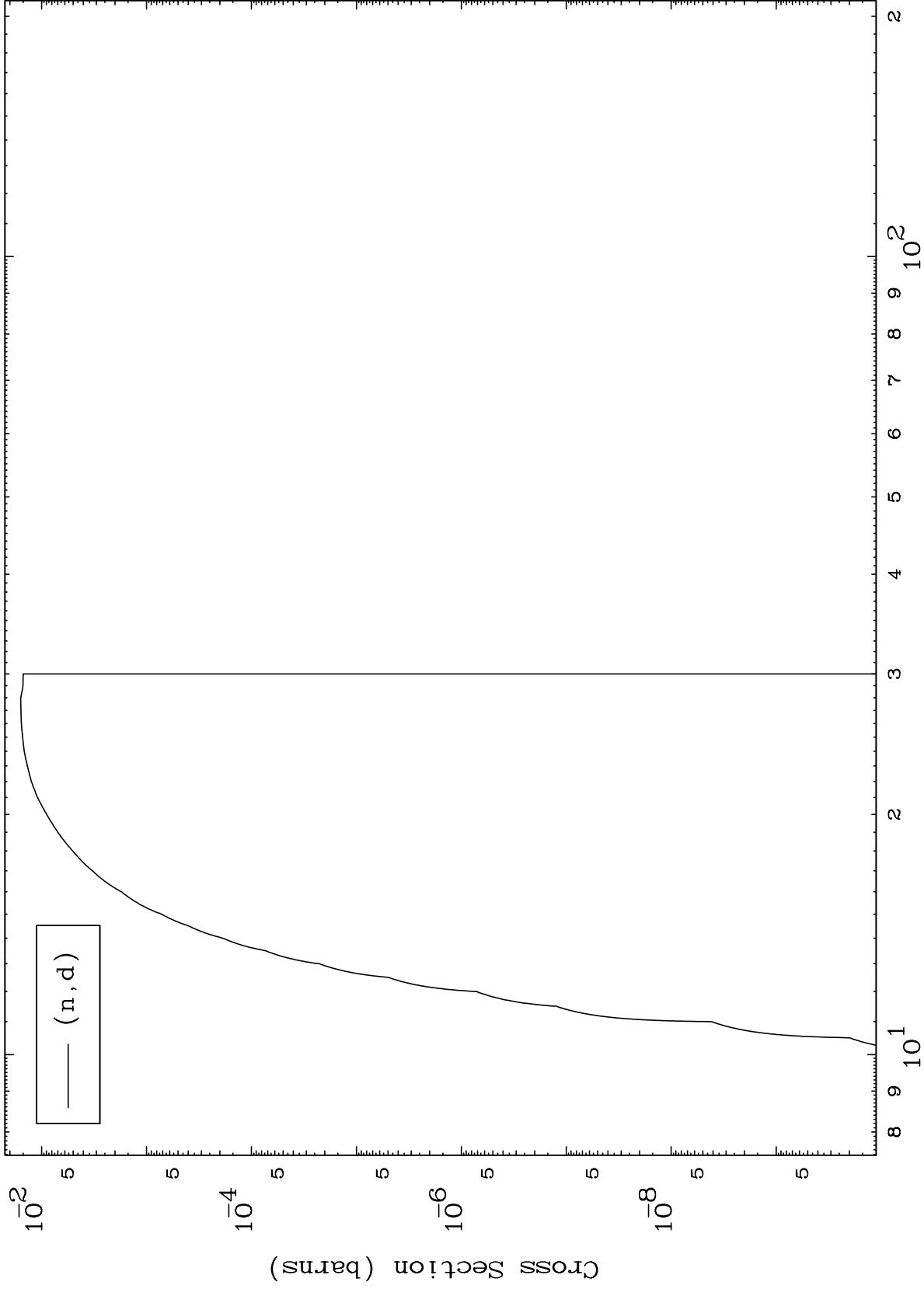
Incident Energy (MeV)

44-Ru-103

MAT 4446

(n,d) Levels  
293 Kelvin Cross Sections

44-Ru-103



11

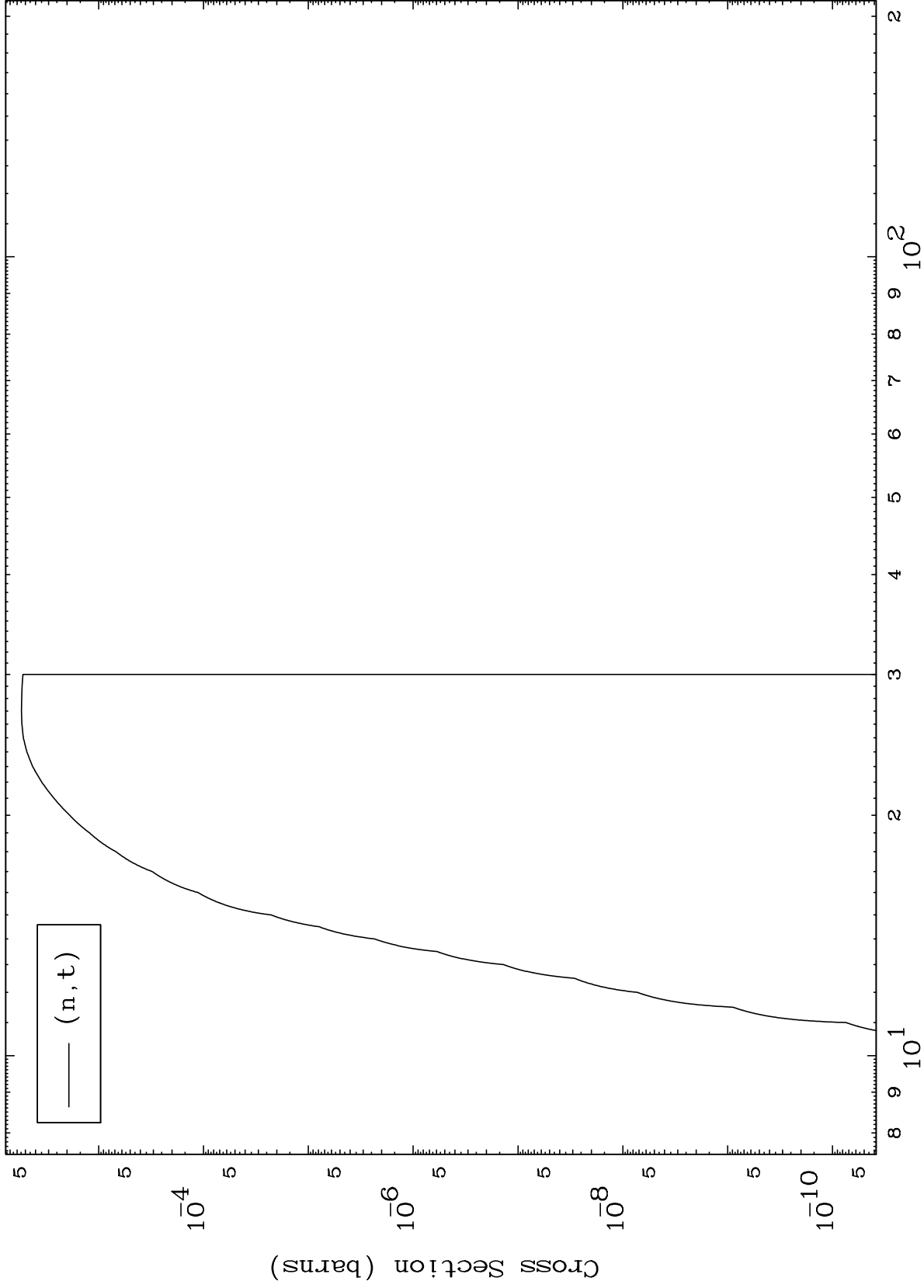
Incident Energy (MeV)

44-Ru-103

MAT 4446

(n,t) Levels  
293 Kelvin Cross Sections

44-Ru-103



12

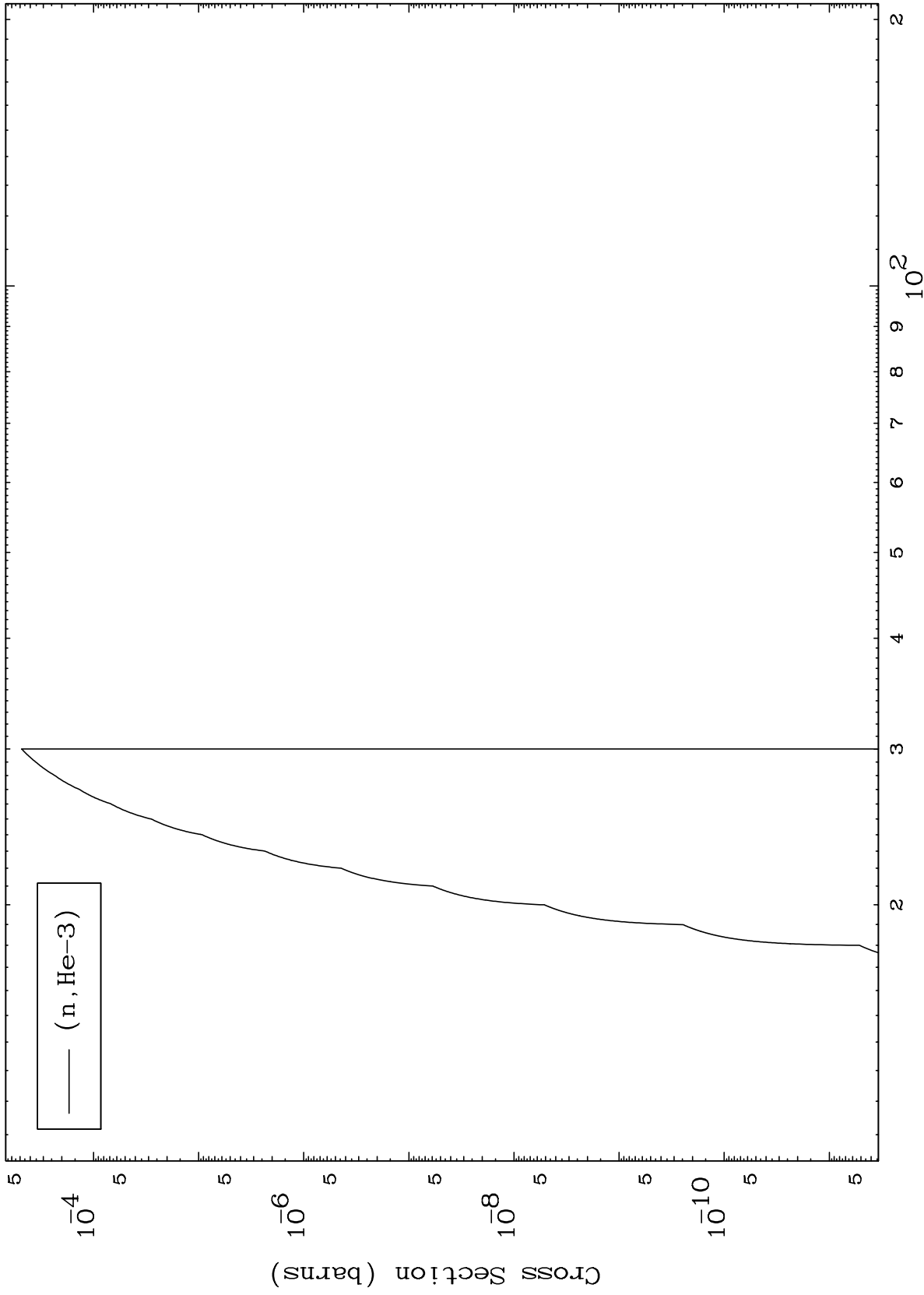
Incident Energy (MeV)

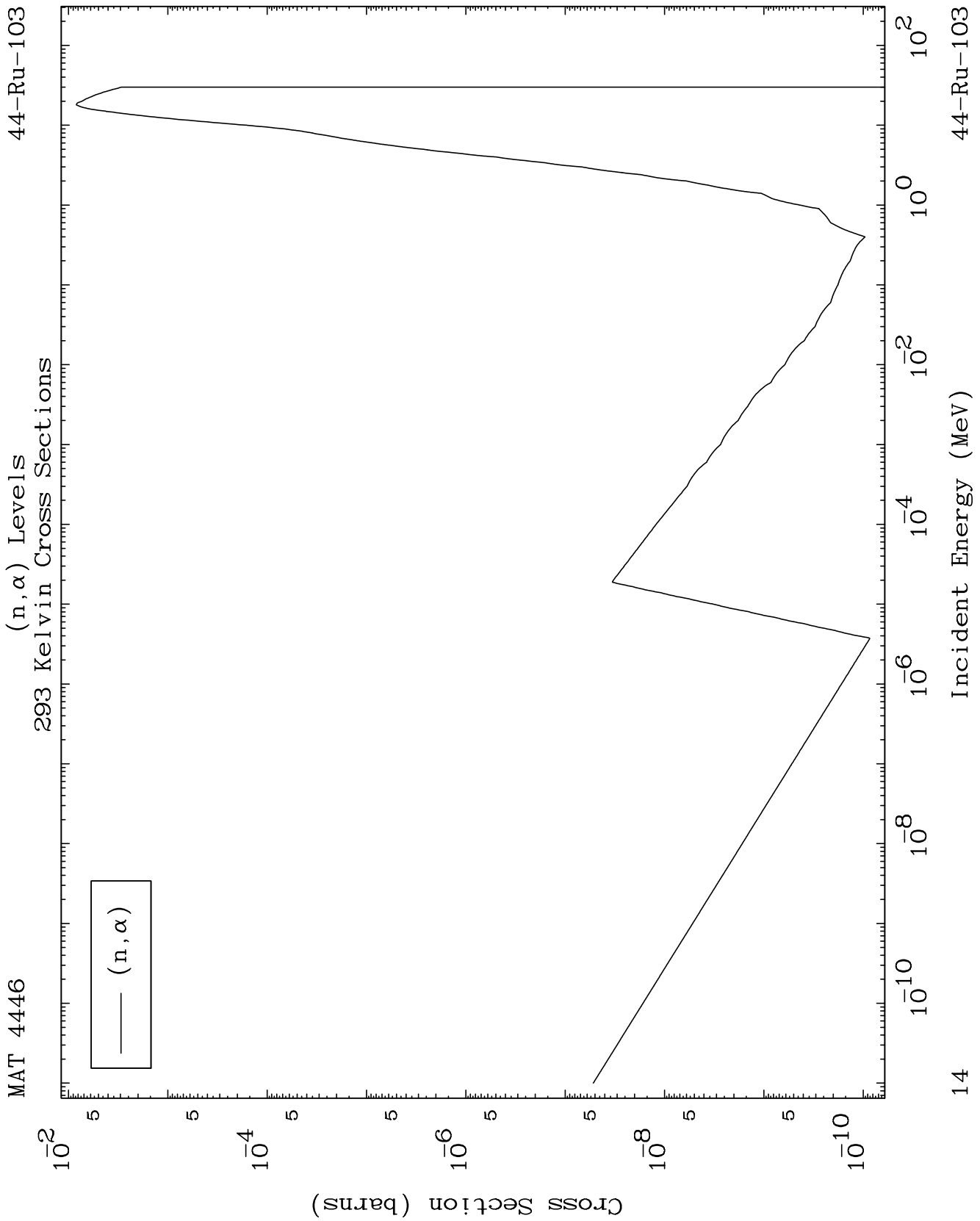
44-Ru-103

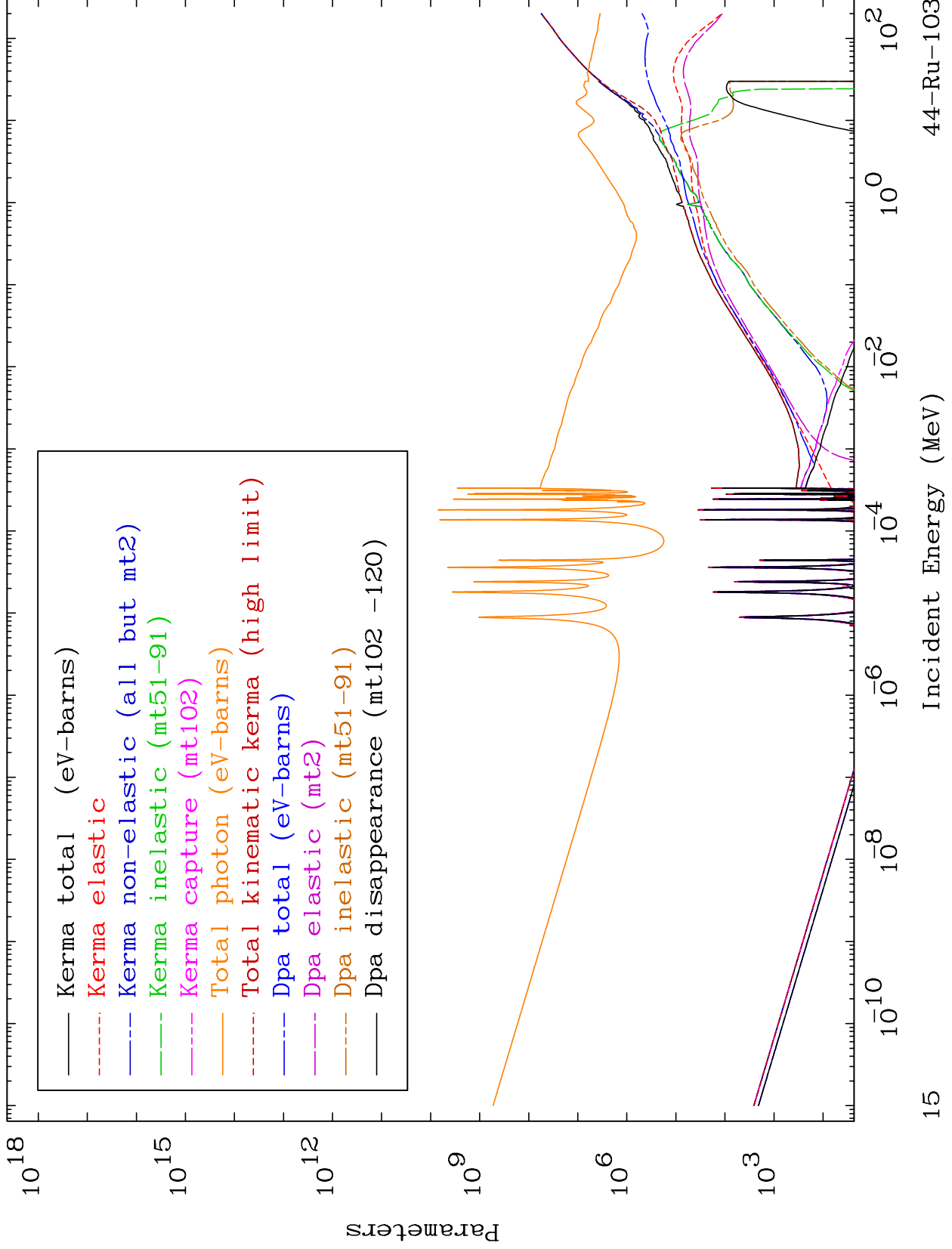
MAT 4446

(n,He3) Levels  
293 Kelvin Cross Sections

44-Ru-103





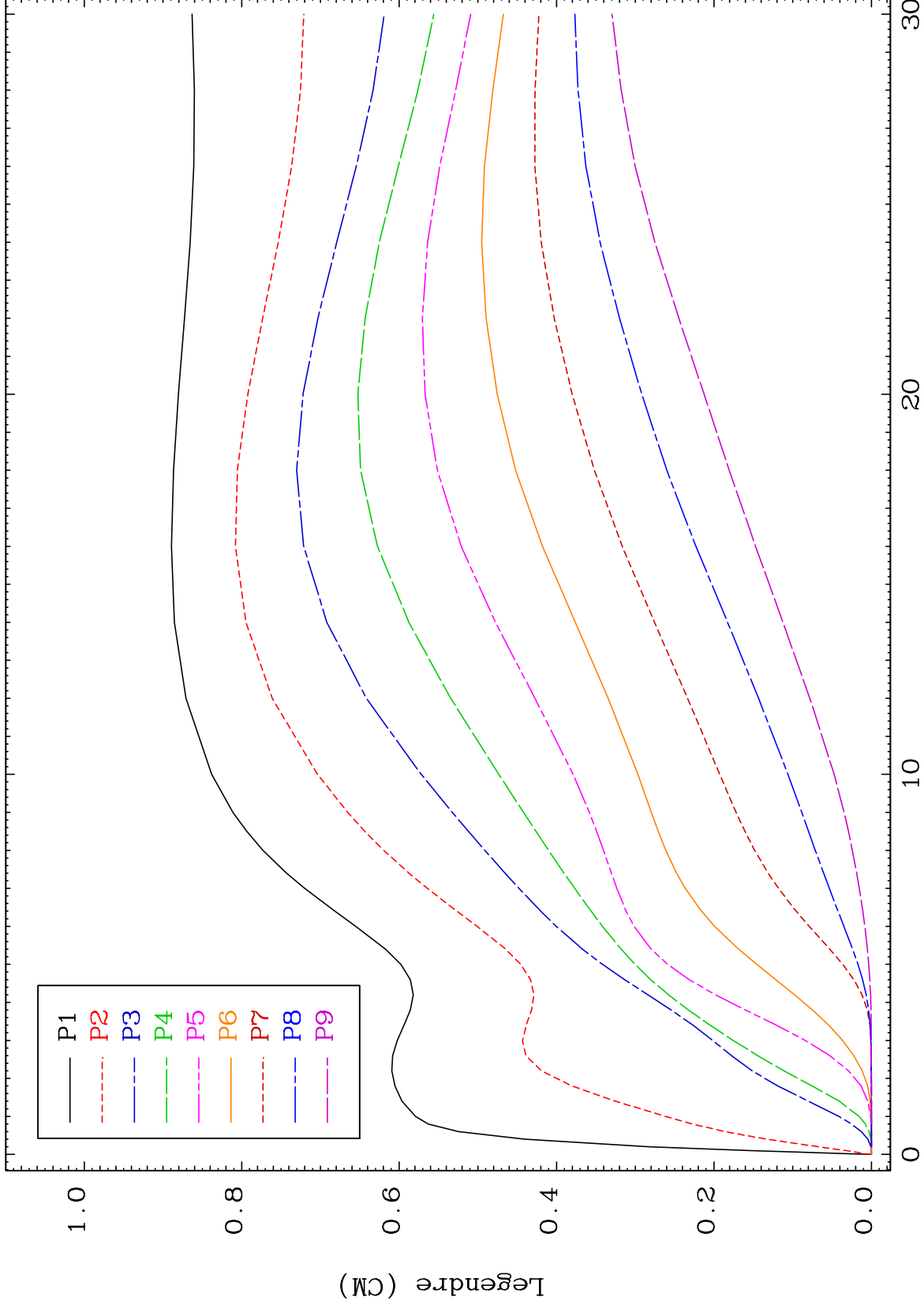




MAT 4446

Elastic Legendre Coefficients

44-Ru-103



16

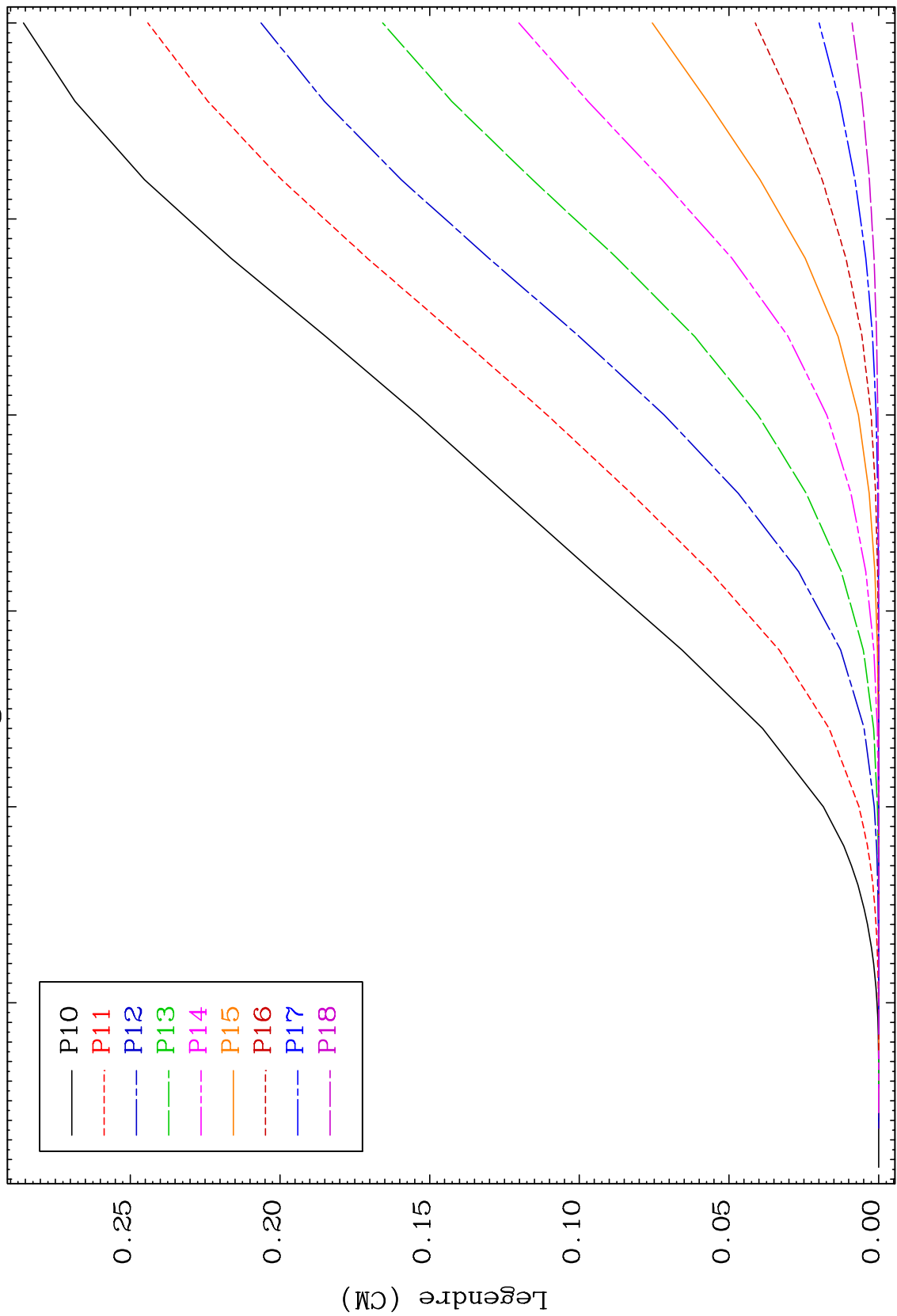
Incident Energy (MeV)

44-Ru-103

MAT 4446

Elastic Legendre Coefficients

44-Ru-103



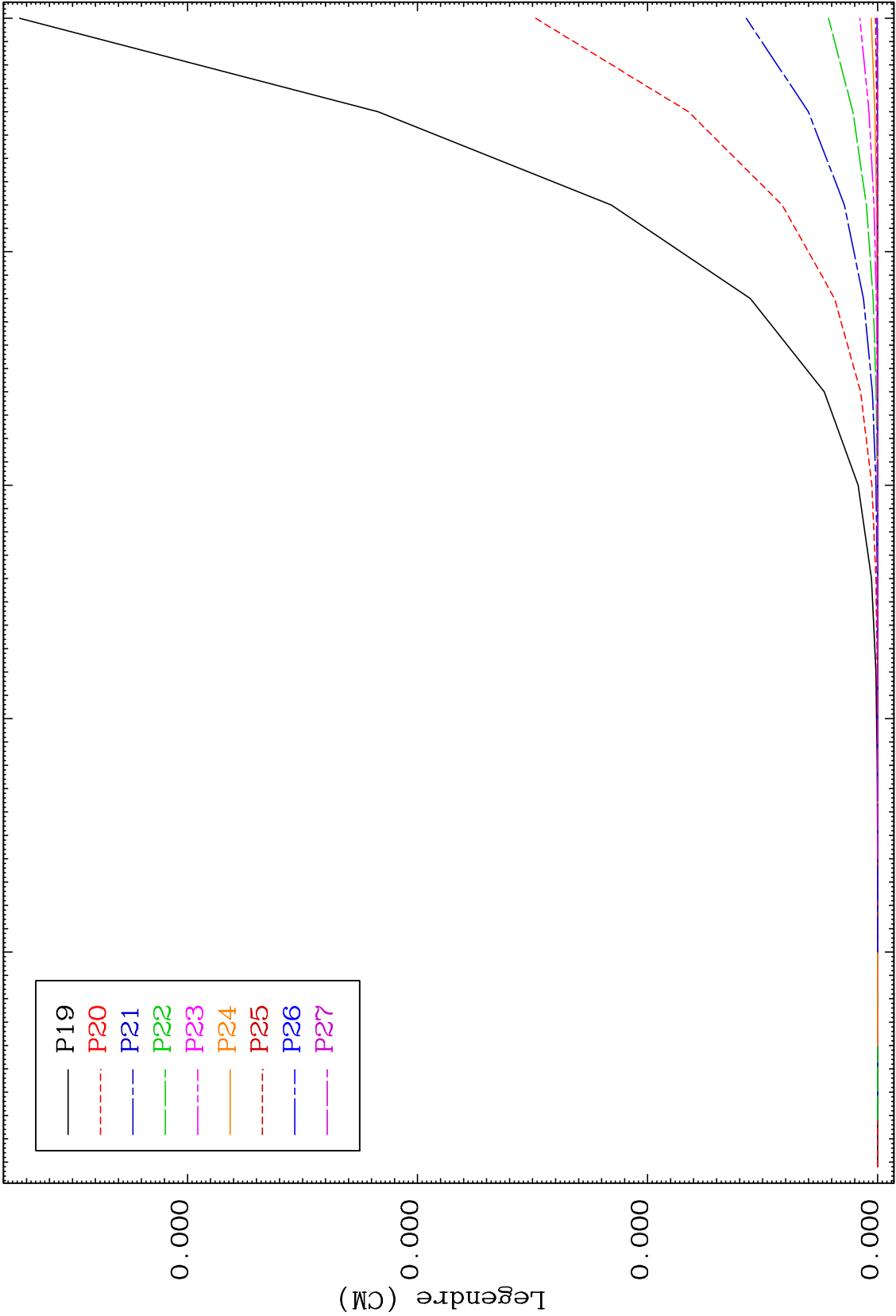
17

44-Ru-103

MAT 4446

Elastic Legendre Coefficients

44-Ru-103



18

Incident Energy (MeV)

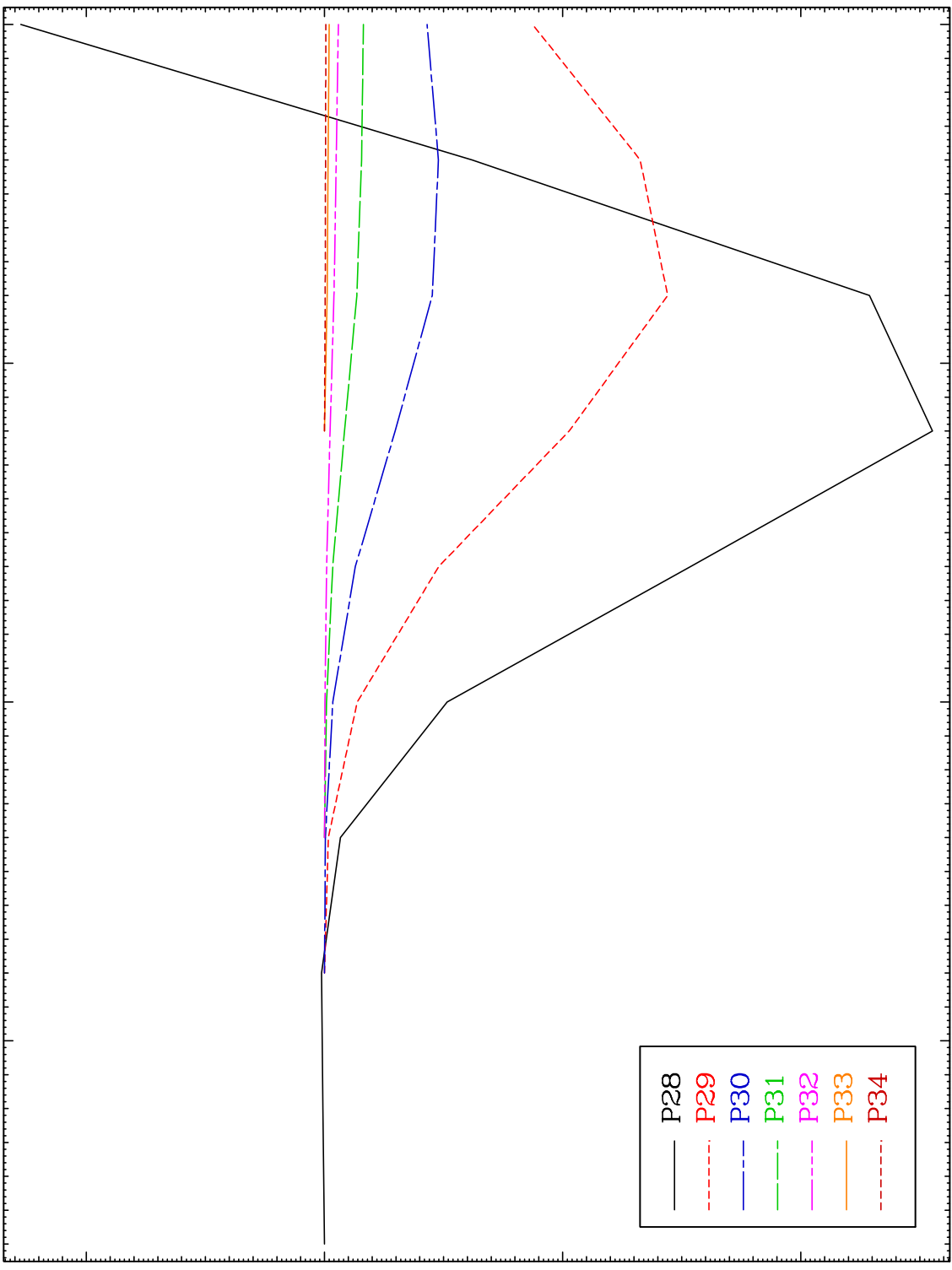
44-Ru-103

MAT 4446

Elastic Legendre Coefficients

44-Ru-103

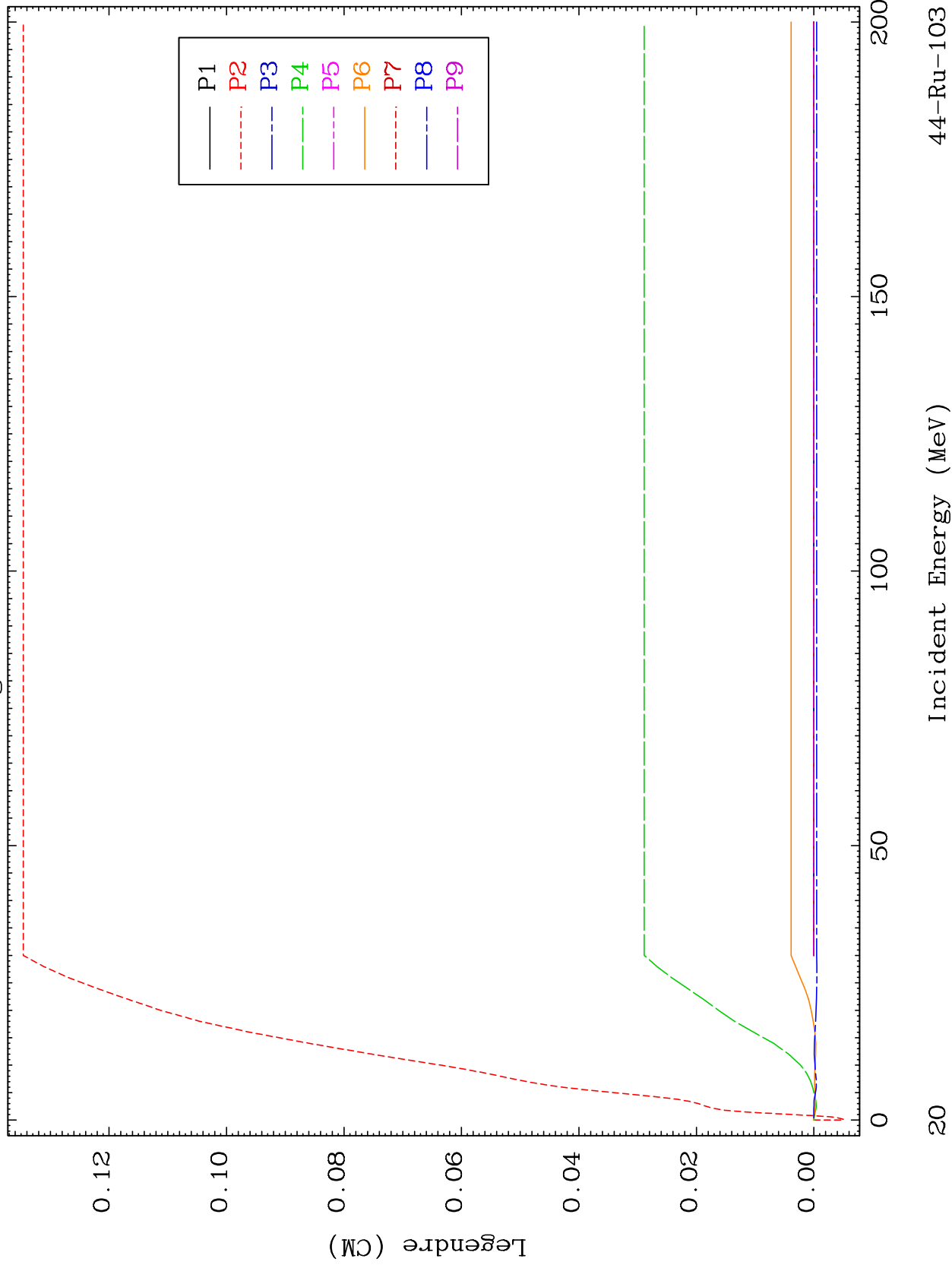
$\times 10^{-7}$   
Legendre (CM)



MAT 4446

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

44-Ru-103



44-Ru-103

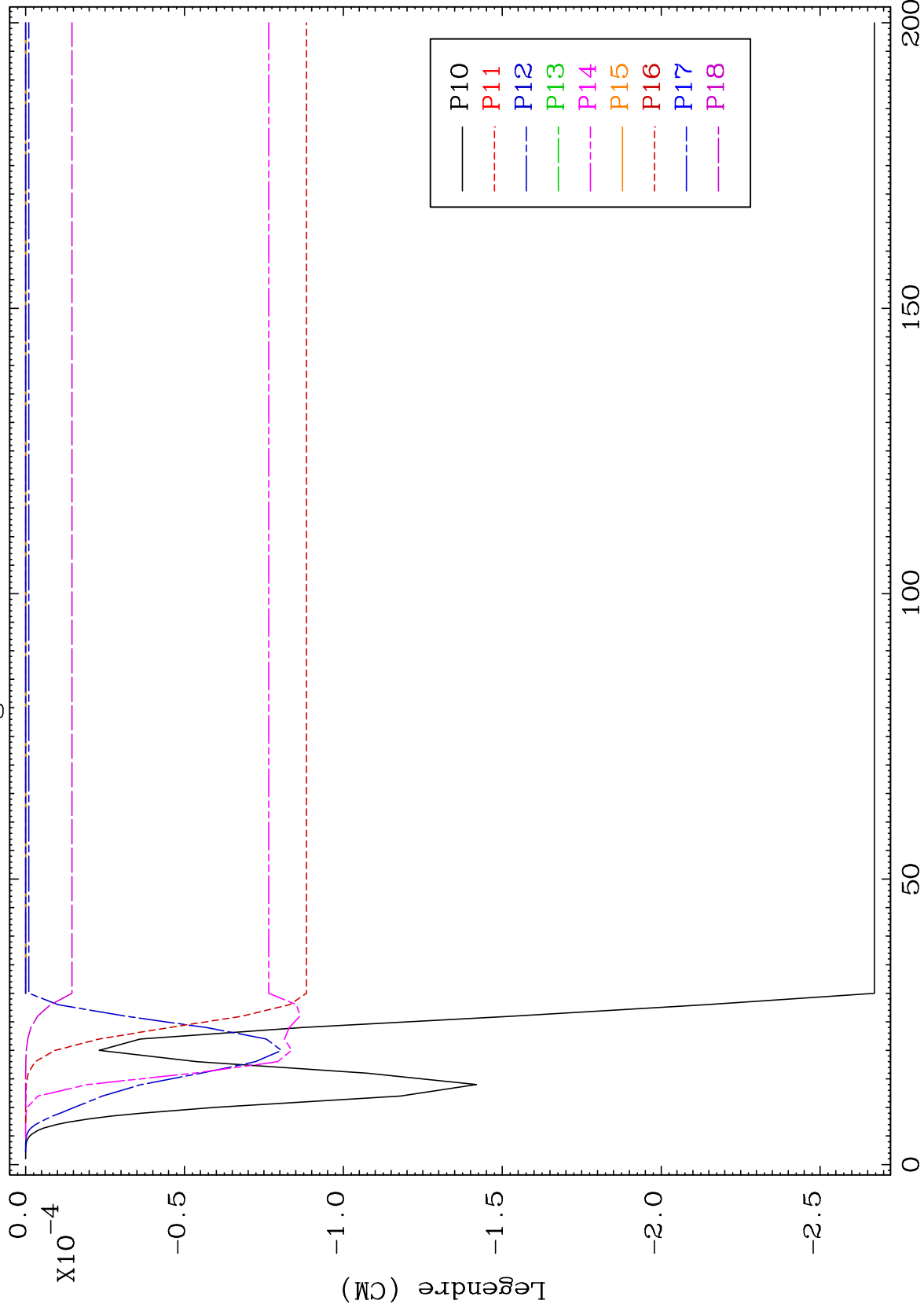
Incident Energy (MeV)

Legendre (CM)

MAT 4446

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

44-Ru-103



21

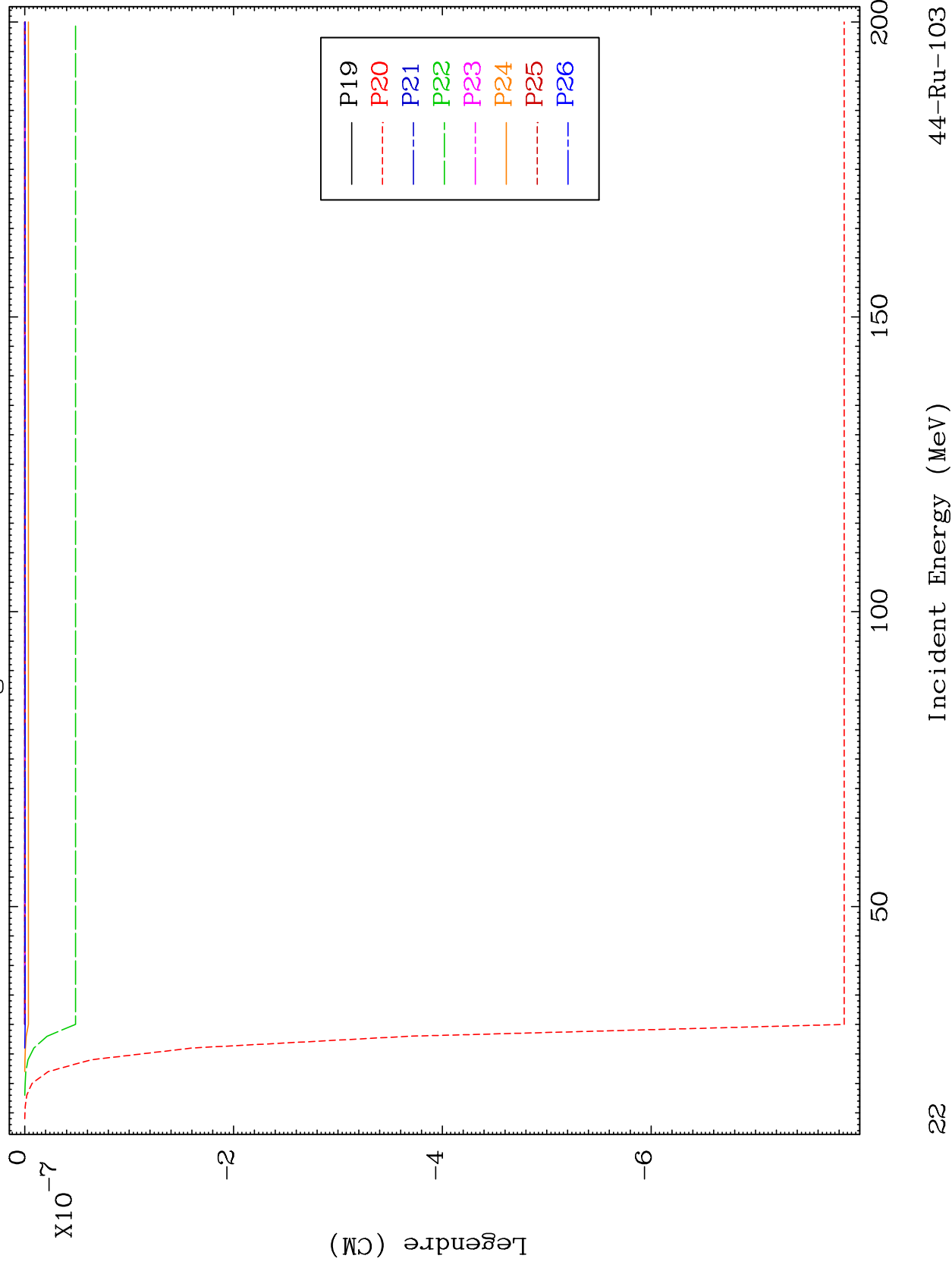
Incident Energy (MeV)

44-Ru-103

MAT 4446

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

44-Ru-103



22

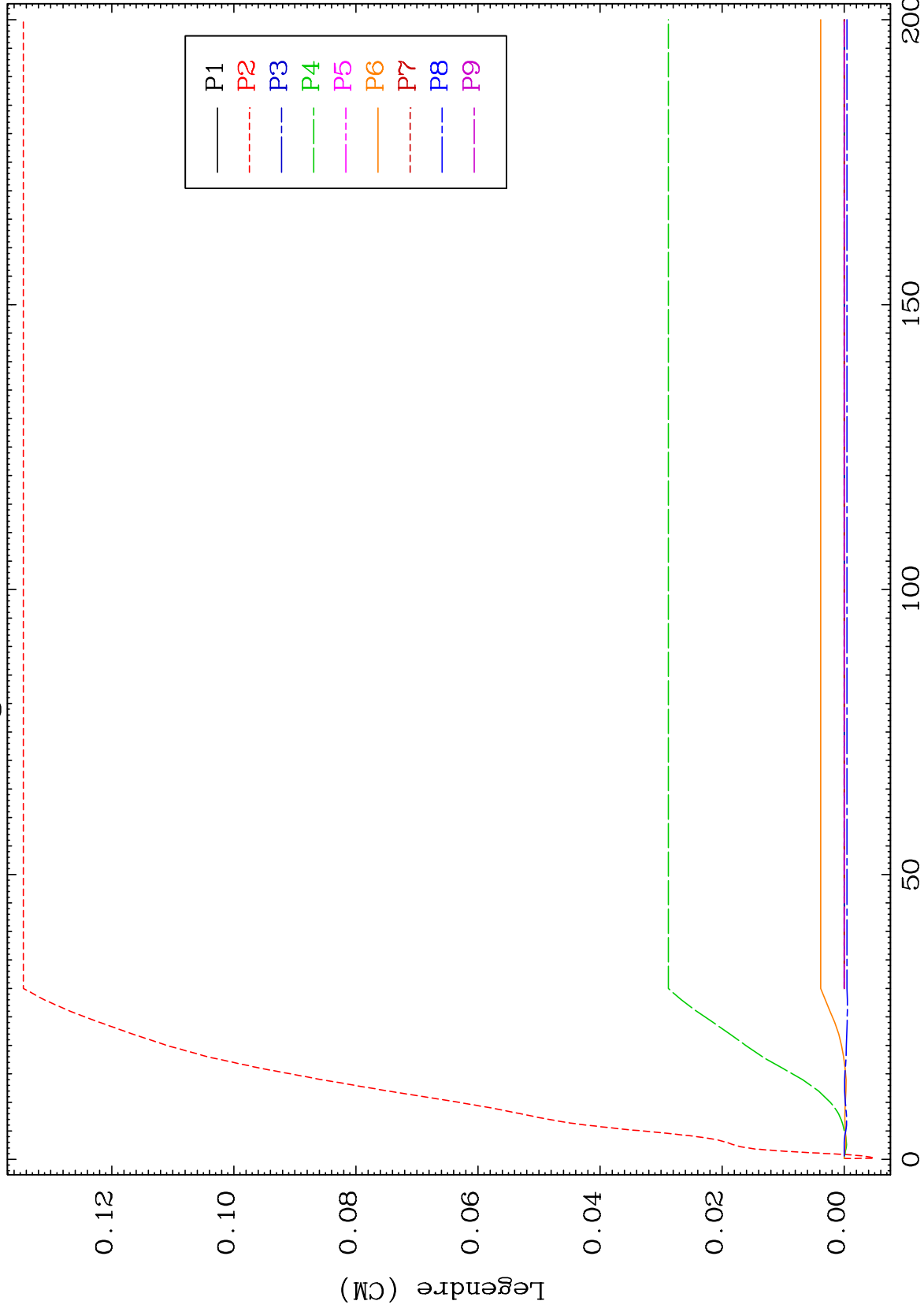
Incident Energy (MeV)

44-Ru-103

MAT 4446

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

44-Ru-103



23

Incident Energy (MeV)

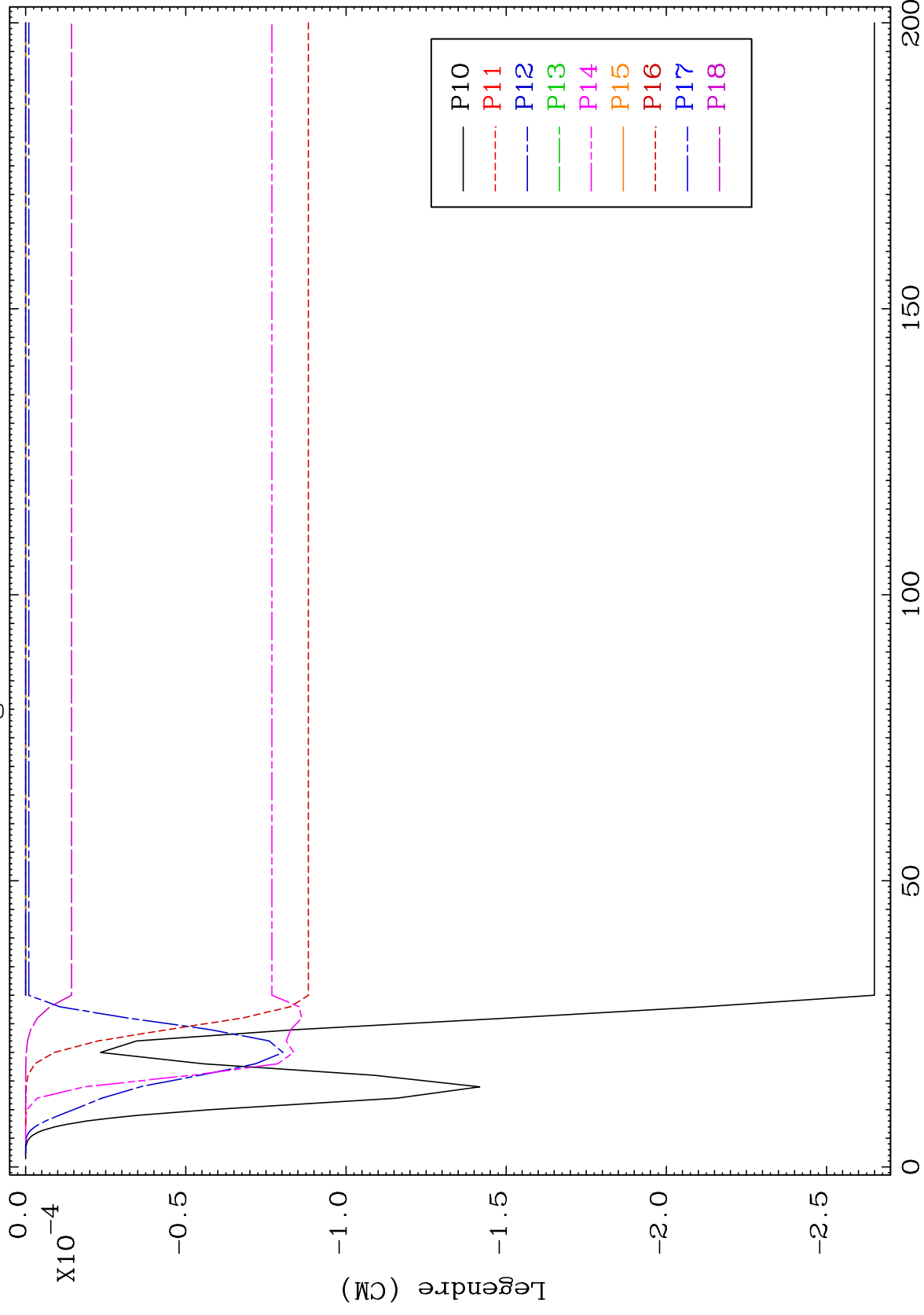
44-Ru-103



MAT 4446

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

44-Ru-103



24

44-Ru-103

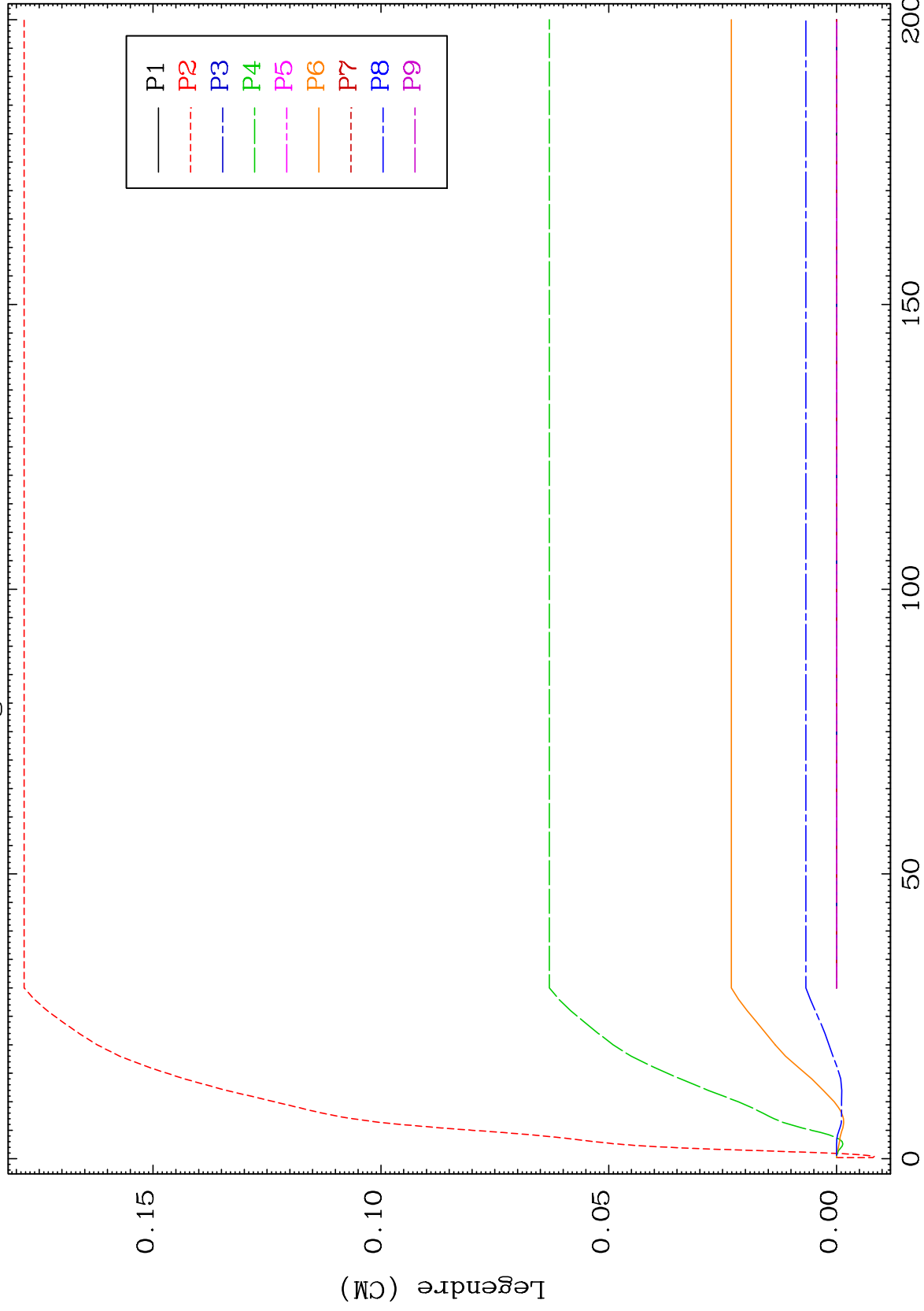


MAT 4446

MT= 53 (n,n') Level

44-Ru-103

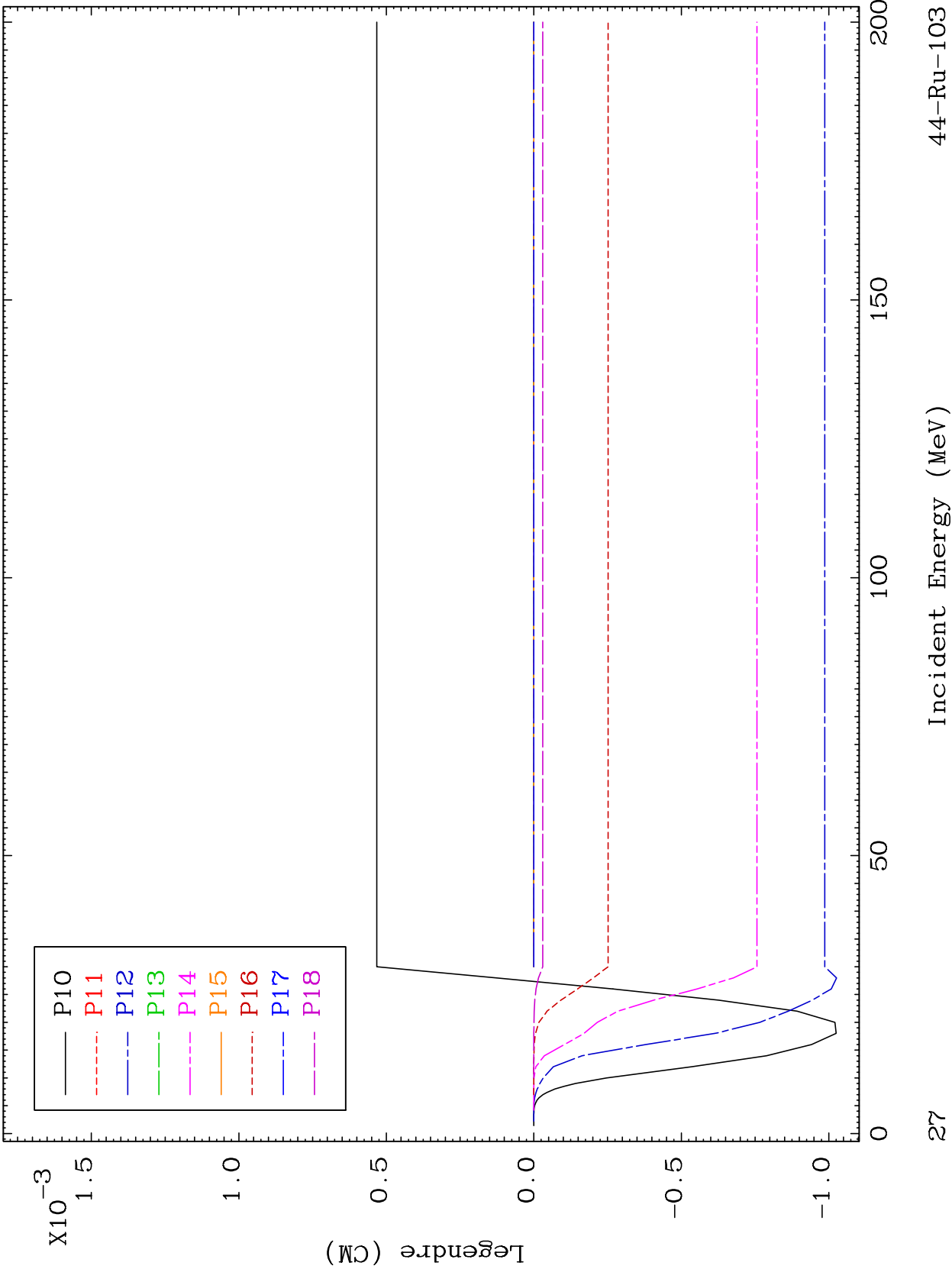
Legendre Coefficients



26

Incident Energy (MeV)

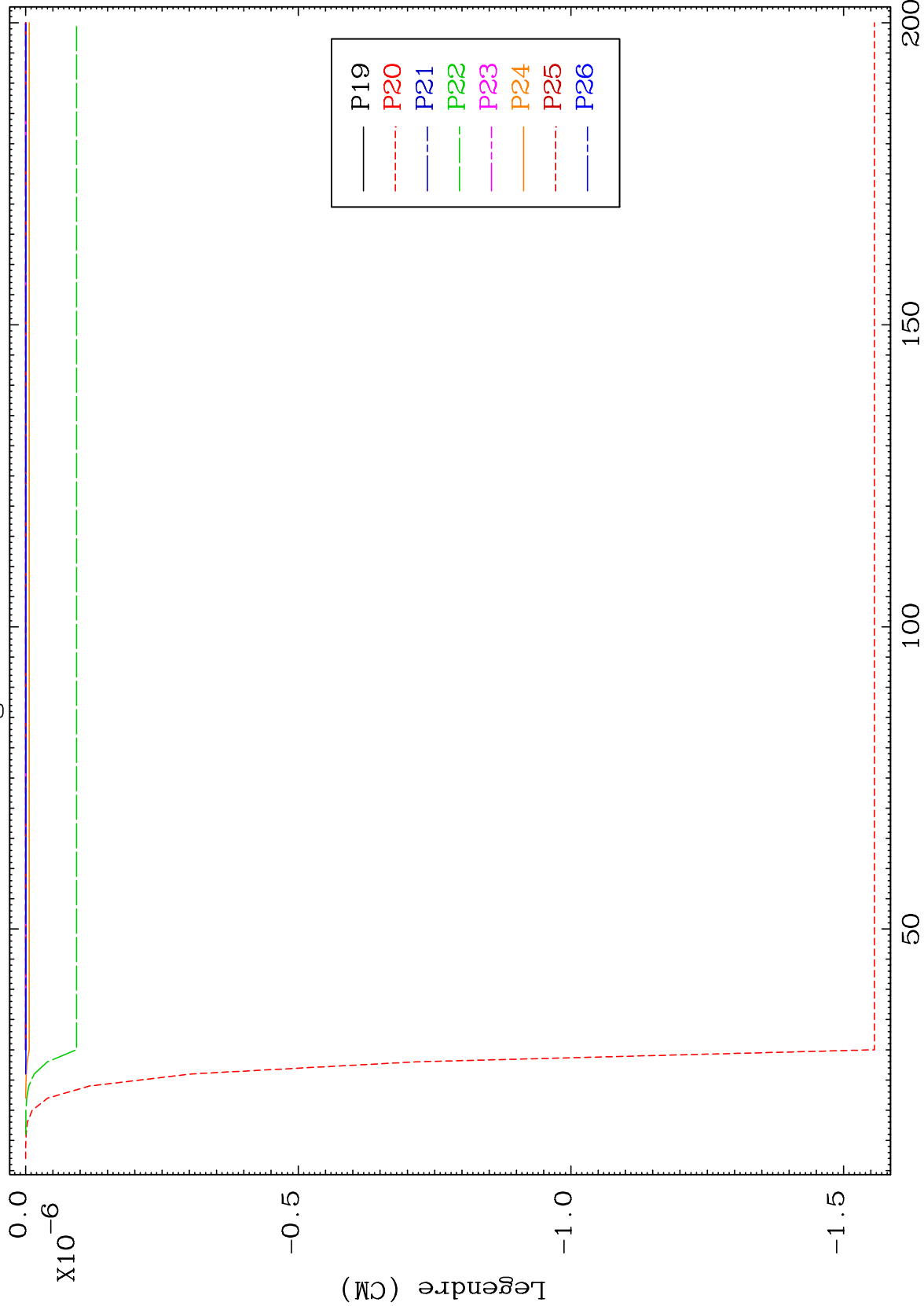
44-Ru-103



MAT 4446

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

44-Ru-103



28

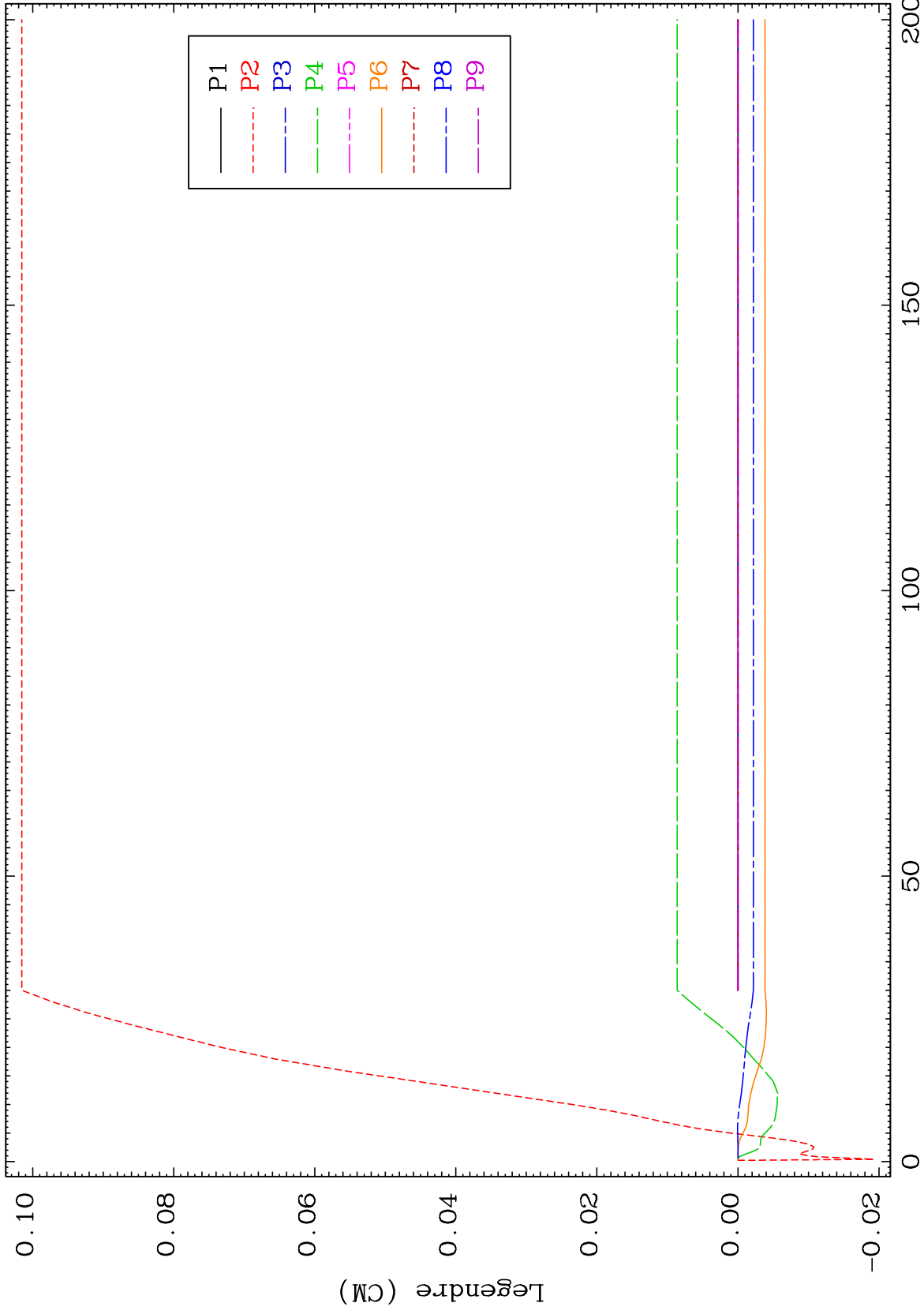
Incident Energy (MeV)

44-Ru-103

MAT 4446

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

44-Ru-103



29

Incident Energy (MeV)

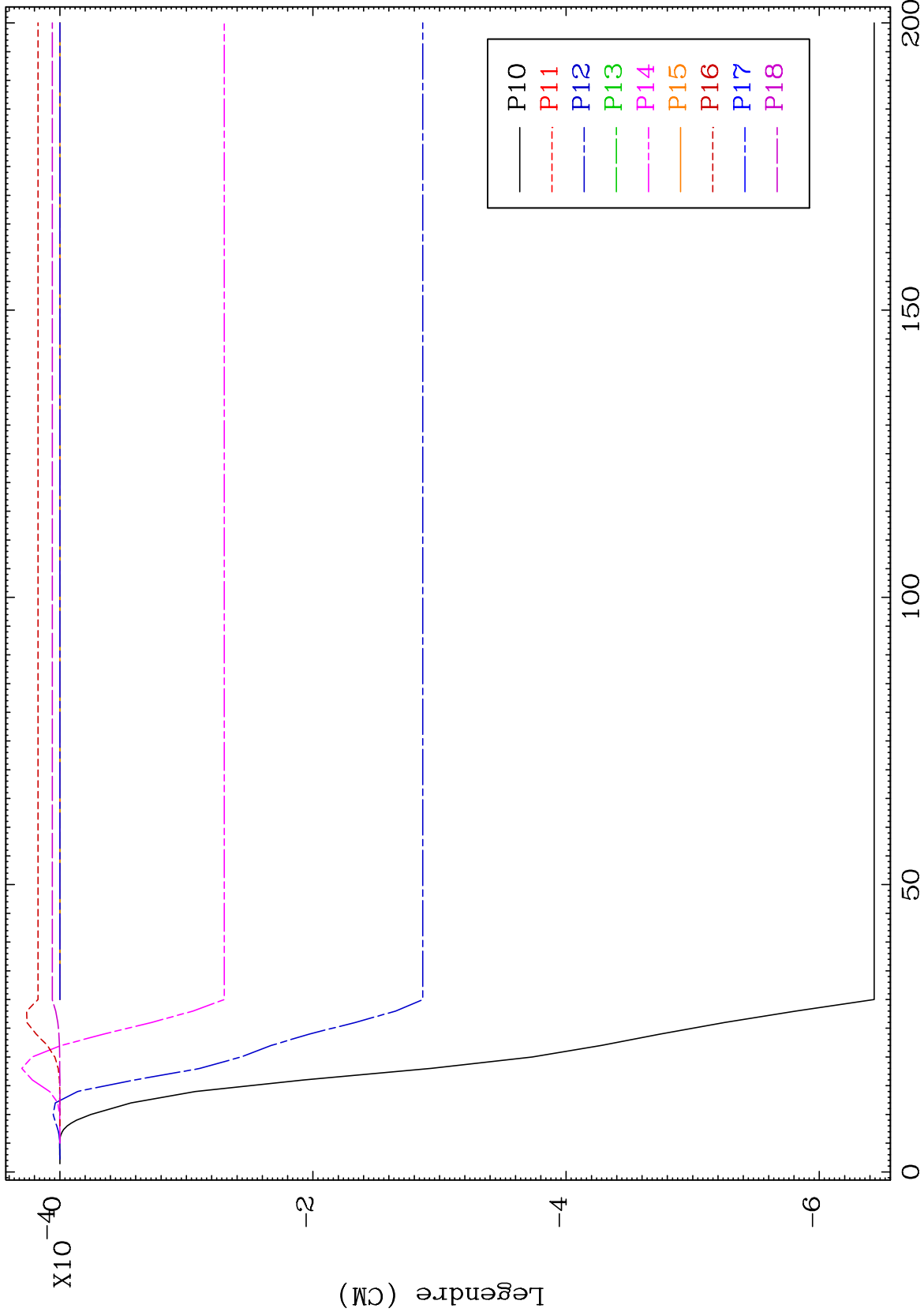
44-Ru-103

MAT 4446

MT= 54 (n,n') Level

44-Ru-103

Legendre Coefficients



30

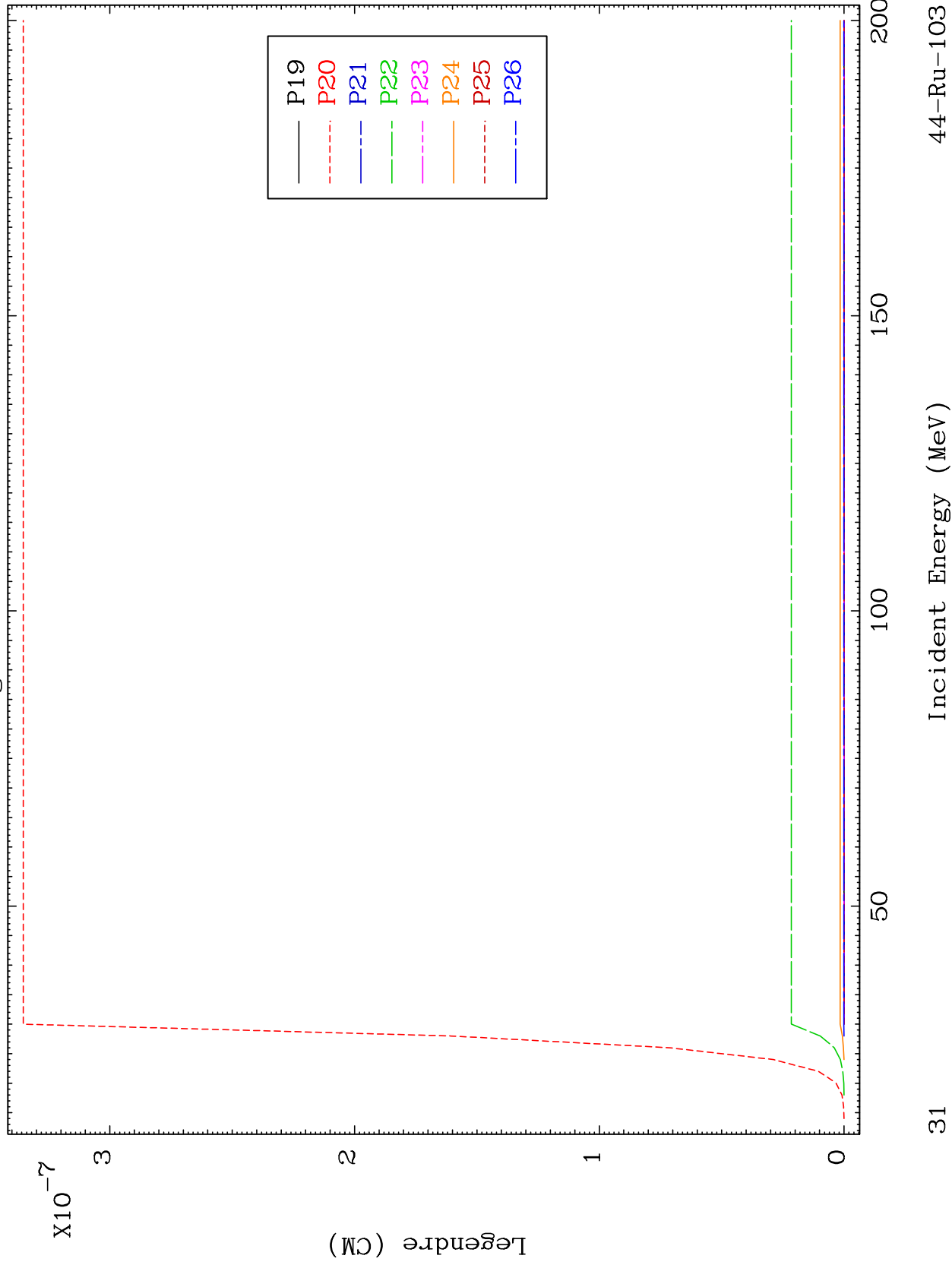
Incident Energy (MeV)

44-Ru-103

MAT 4446

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

44-Ru-103



31

Incident Energy (MeV)

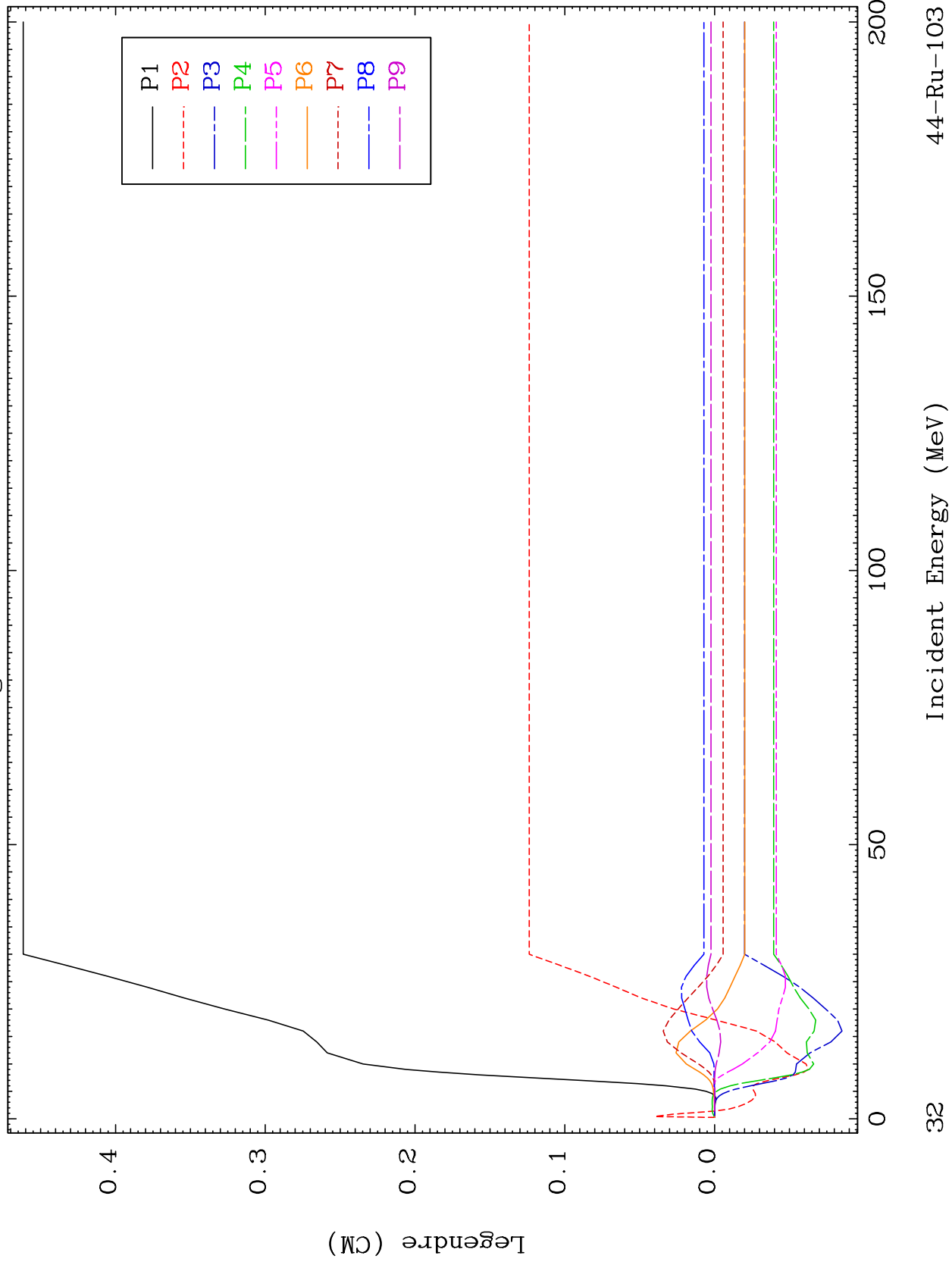
44-Ru-103



MAT 4446

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

44-Ru-103



44-Ru-103

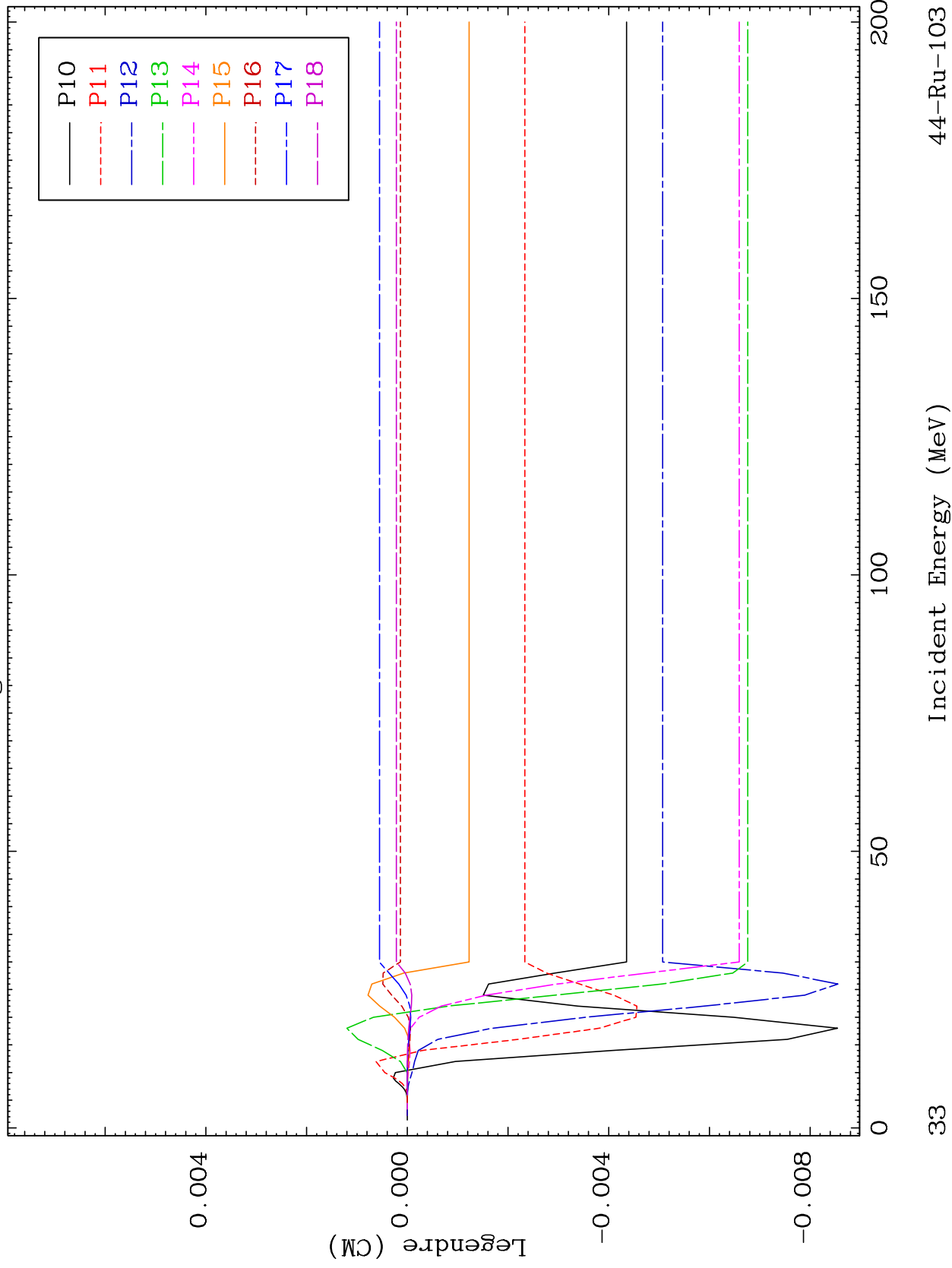
Incident Energy (MeV)

32

MAT 4446

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

44-Ru-103



44-Ru-103

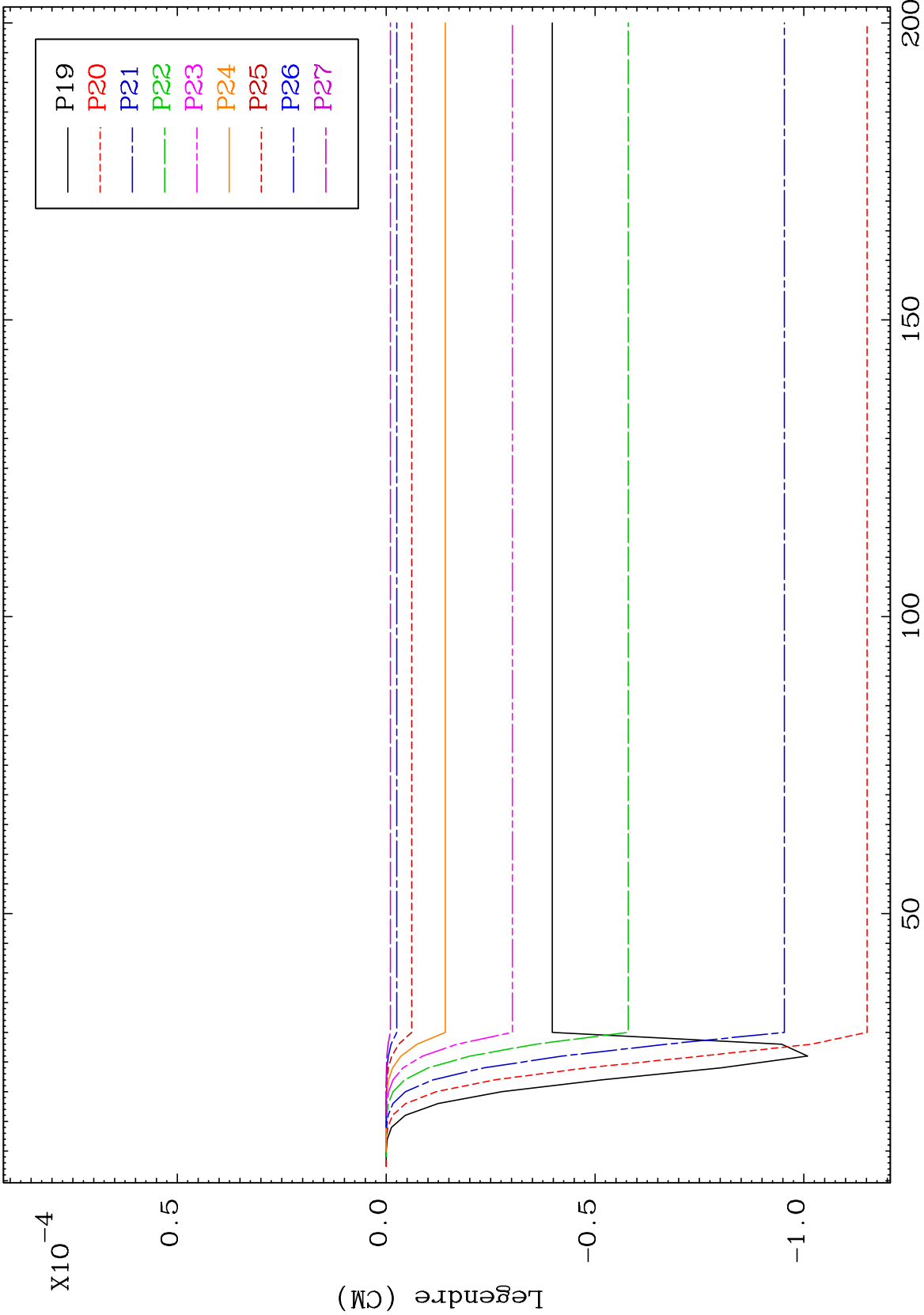
Incident Energy (MeV)

33

MAT 4446

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

44-Ru-103



34

Incident Energy (MeV)

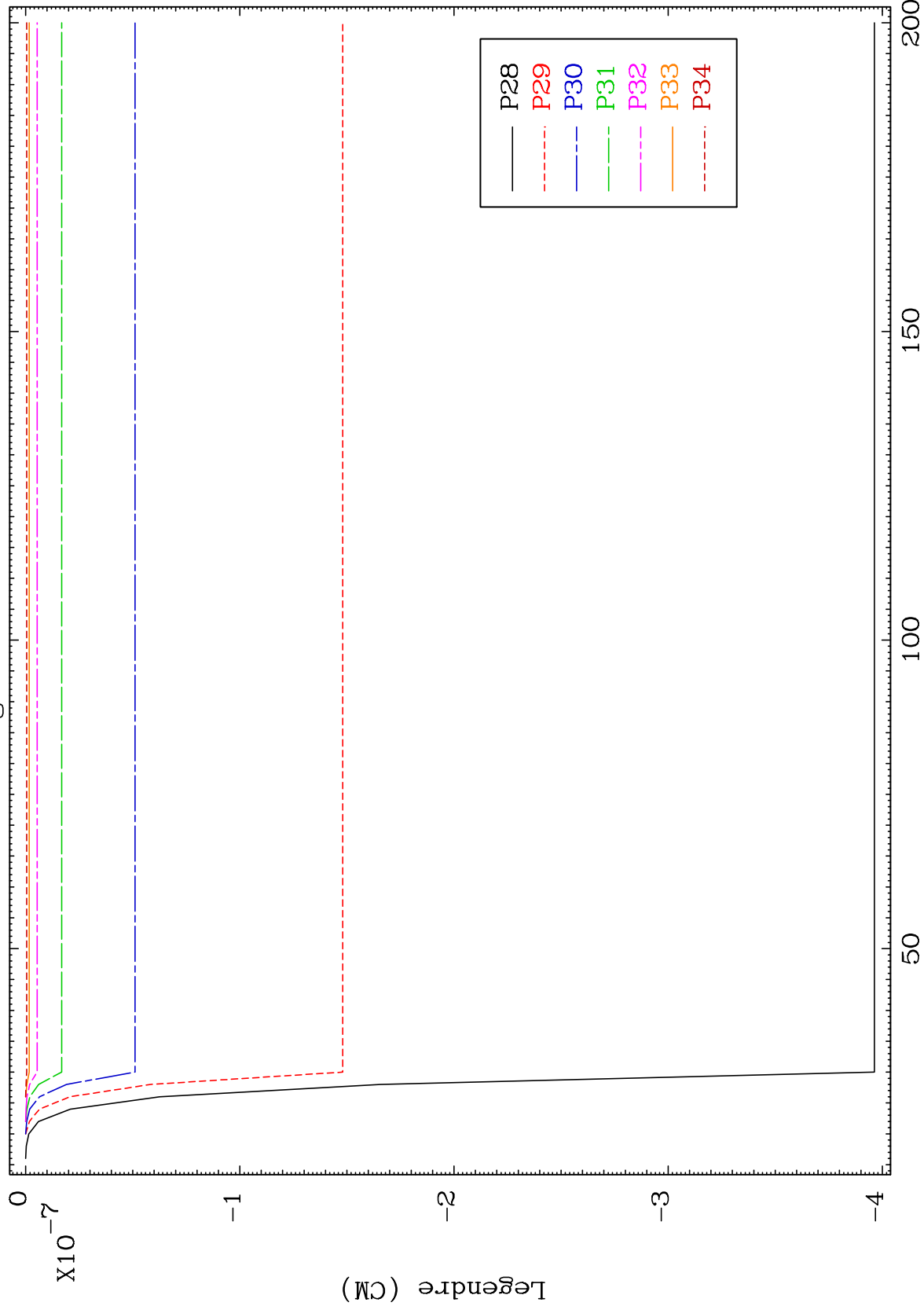
44-Ru-103

MAT 4446

MT= 55 (n,n') Level

44-Ru-103

Legendre Coefficients



35

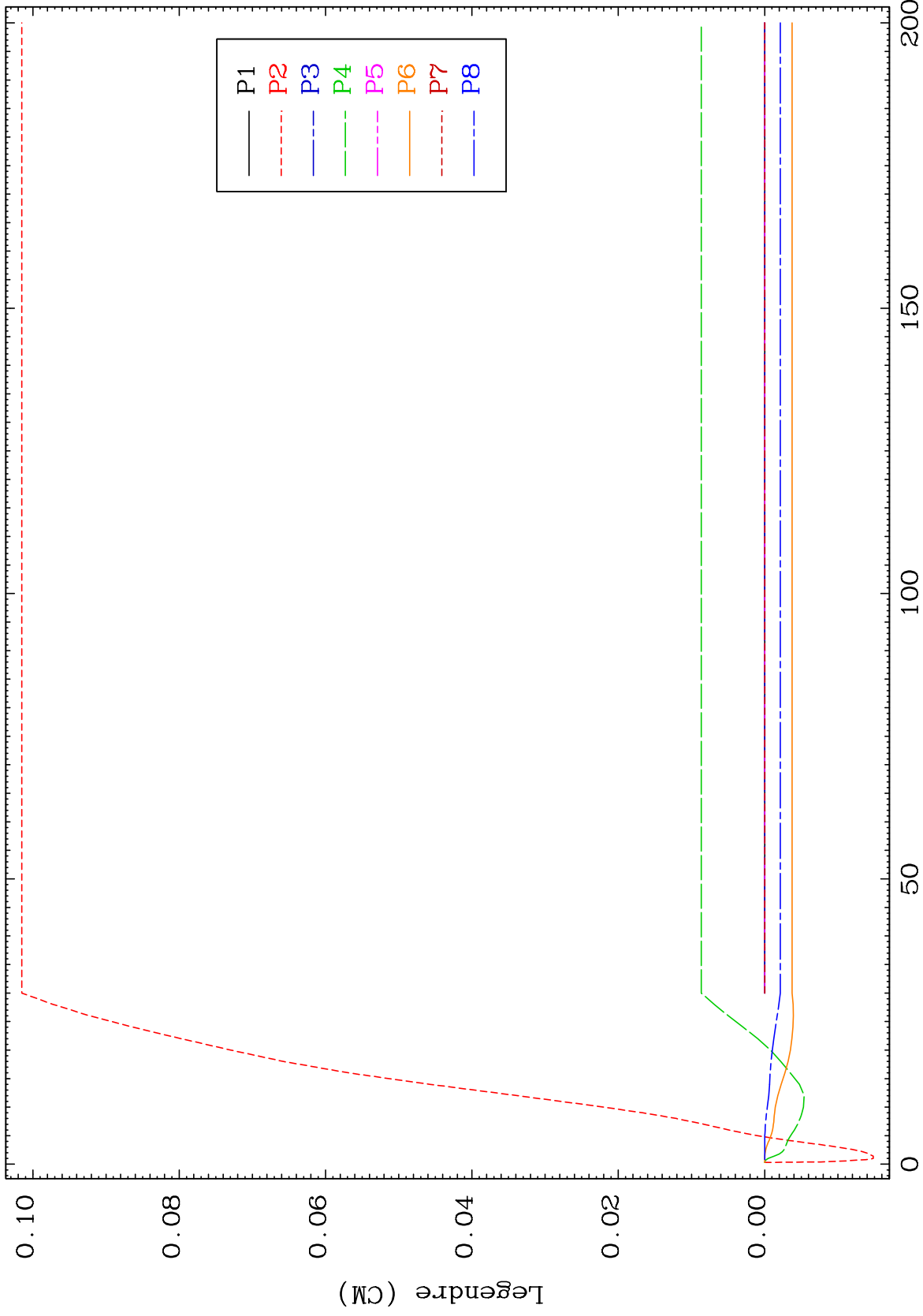
Incident Energy (MeV)

44-Ru-103

MAT 4446

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

44-Ru-103



44-Ru-103

Incident Energy (MeV)

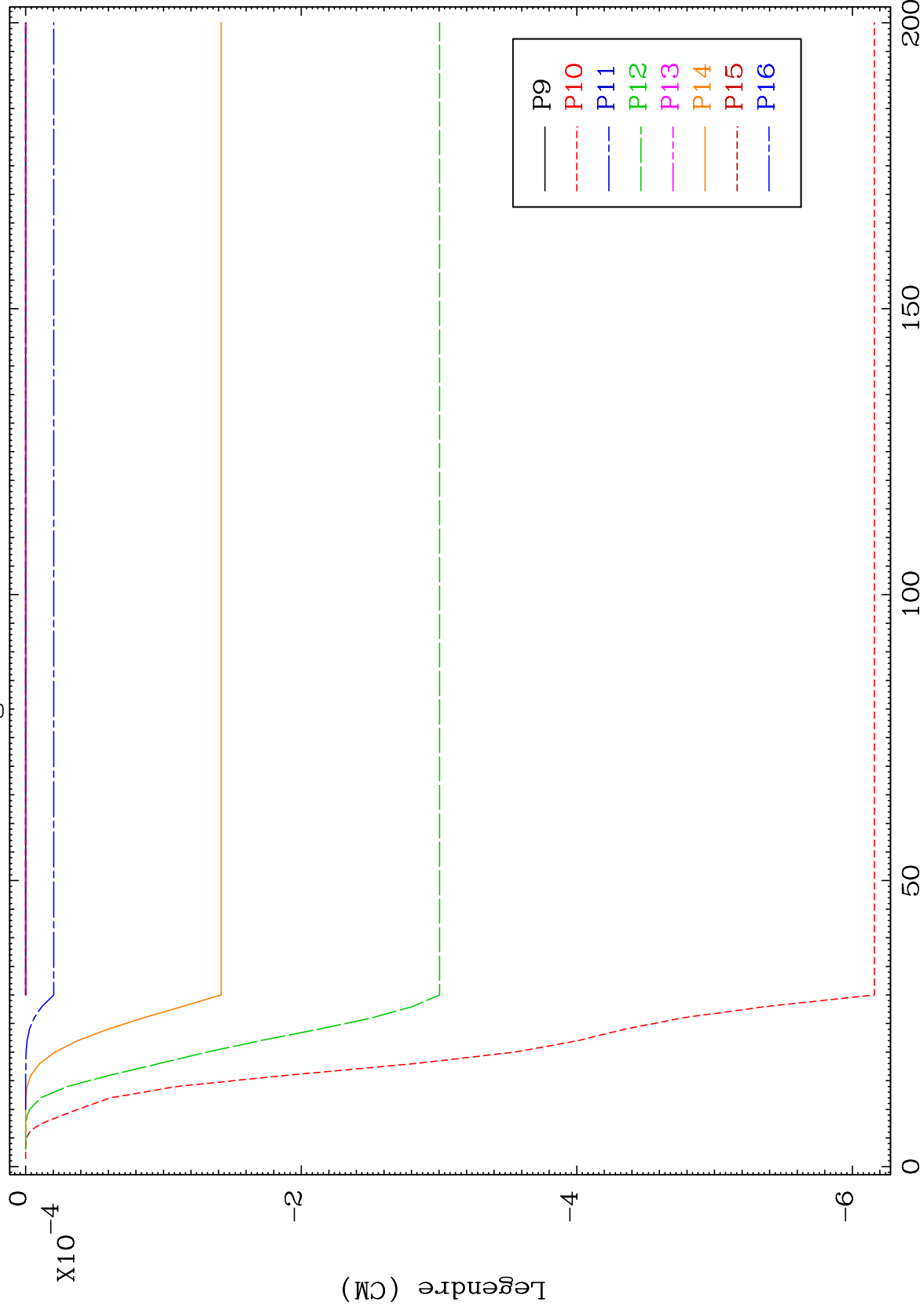
36

MAT 4446

MT= 56 (n,n') Level

44-Ru-103

Legendre Coefficients



37

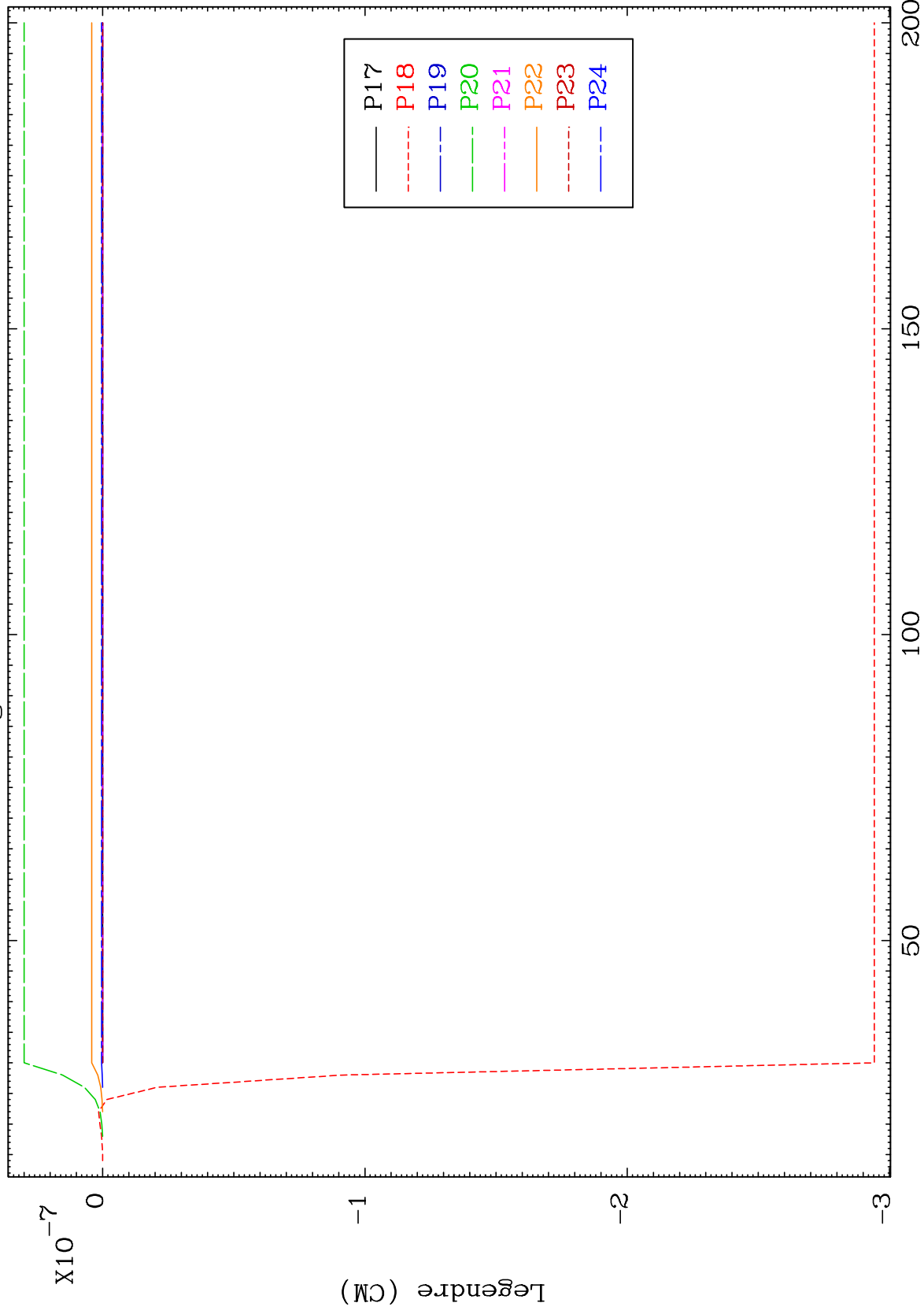
Incident Energy (MeV)

44-Ru-103

MAT 4446

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

44-Ru-103



38

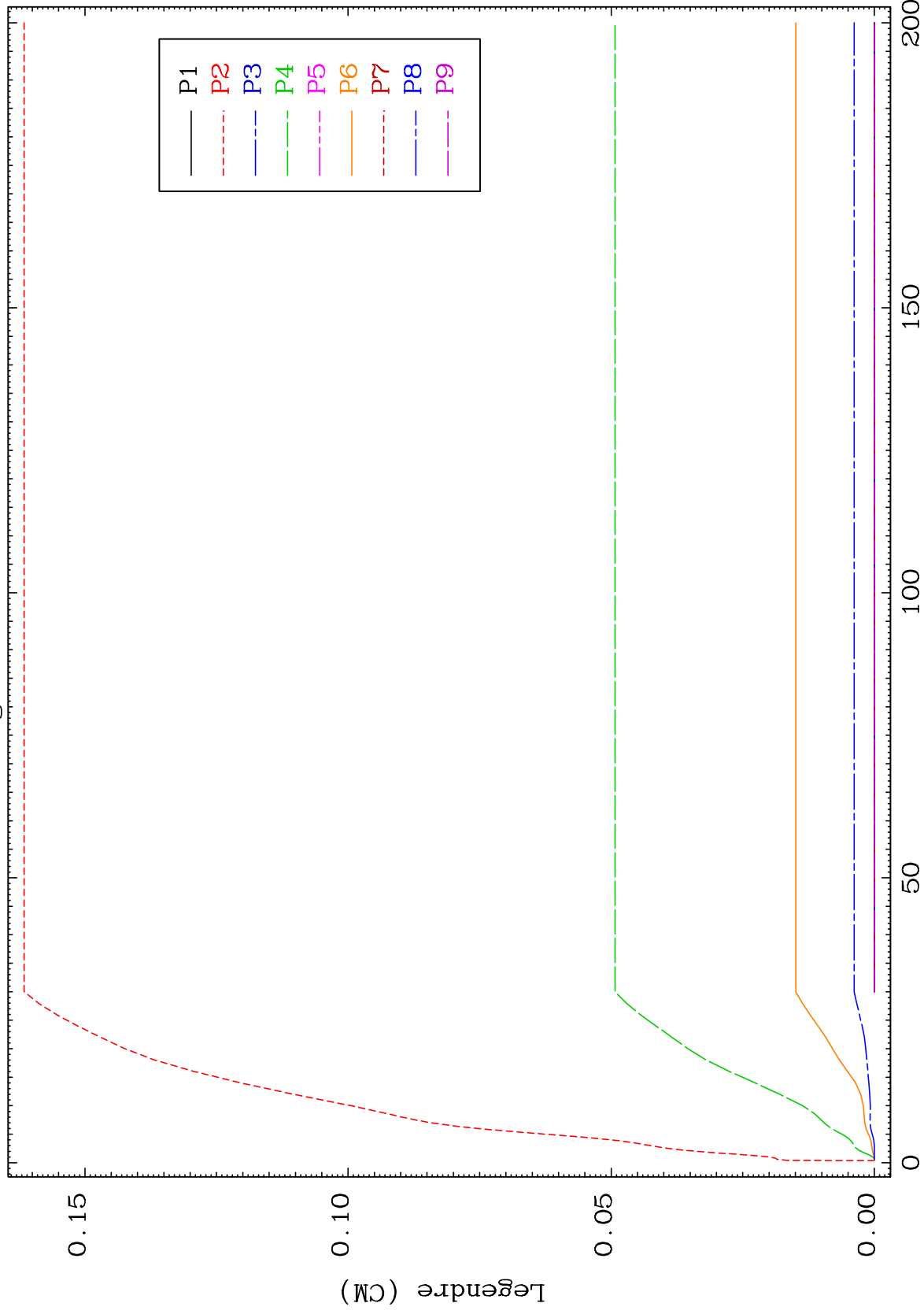
Incident Energy (MeV)

44-Ru-103

MAT 4446

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

44-Ru-103



39

Incident Energy (MeV)

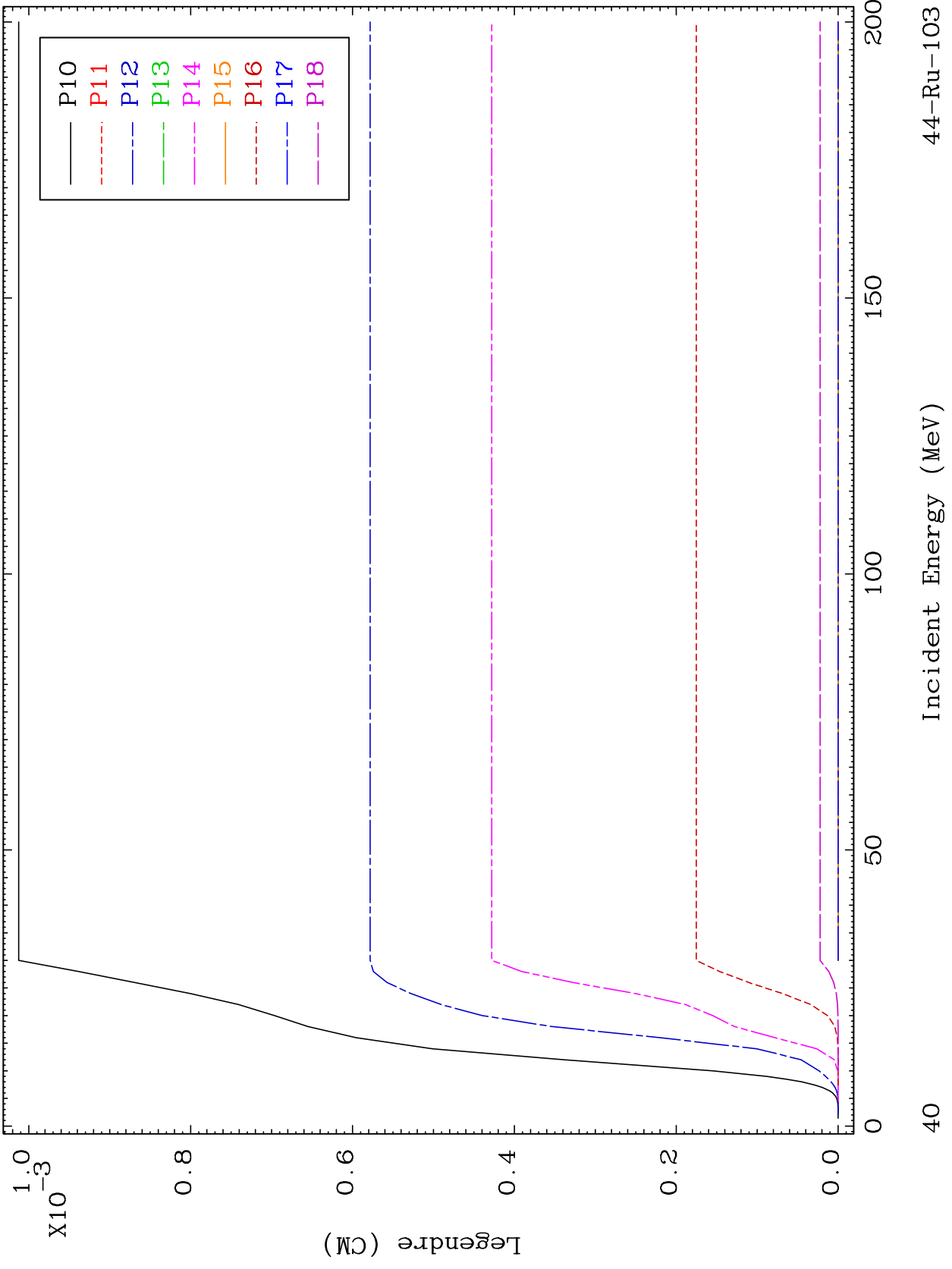
44-Ru-103



MAT 4446

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

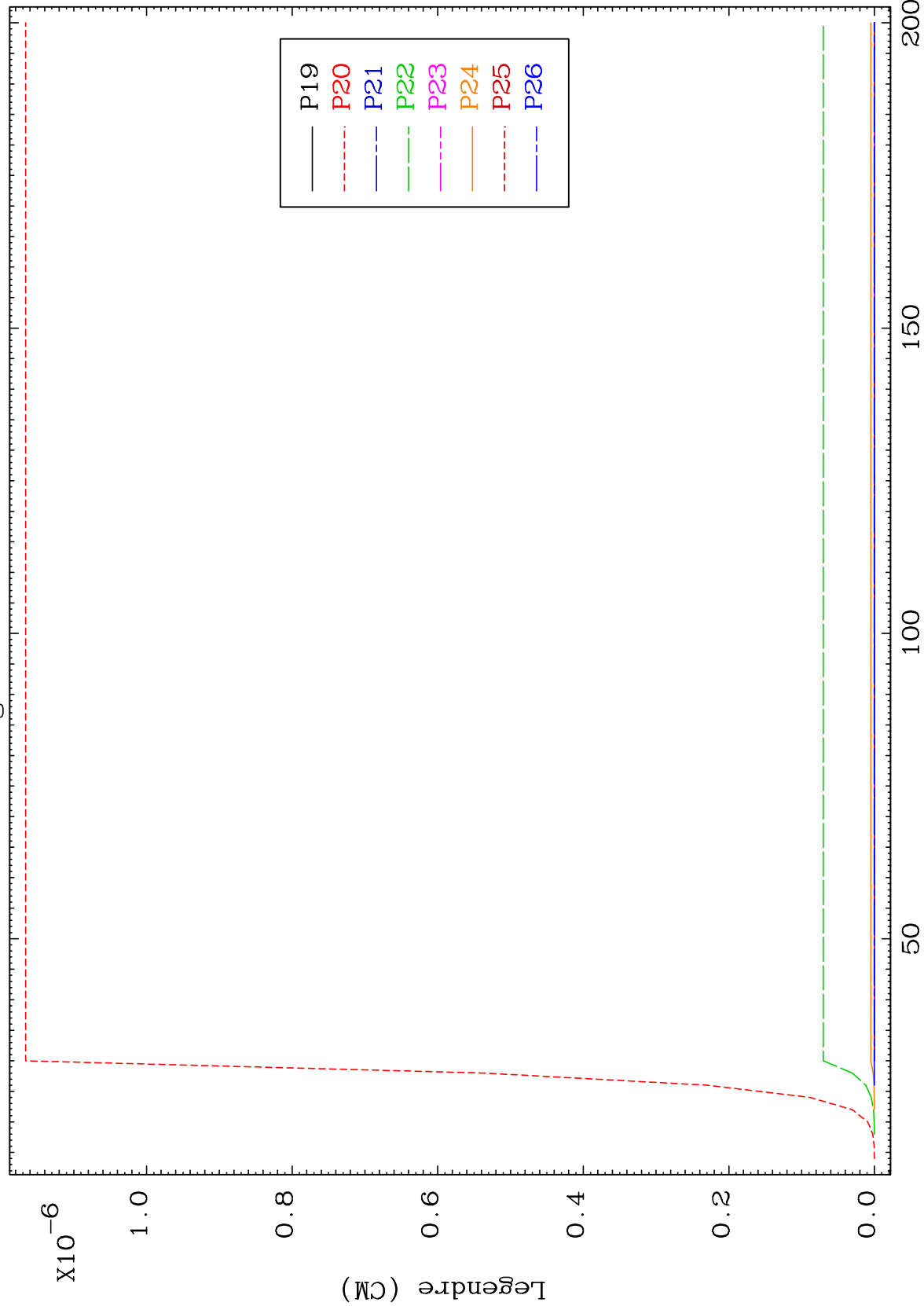
44-Ru-103



MAT 4446

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

44-Ru-103



41

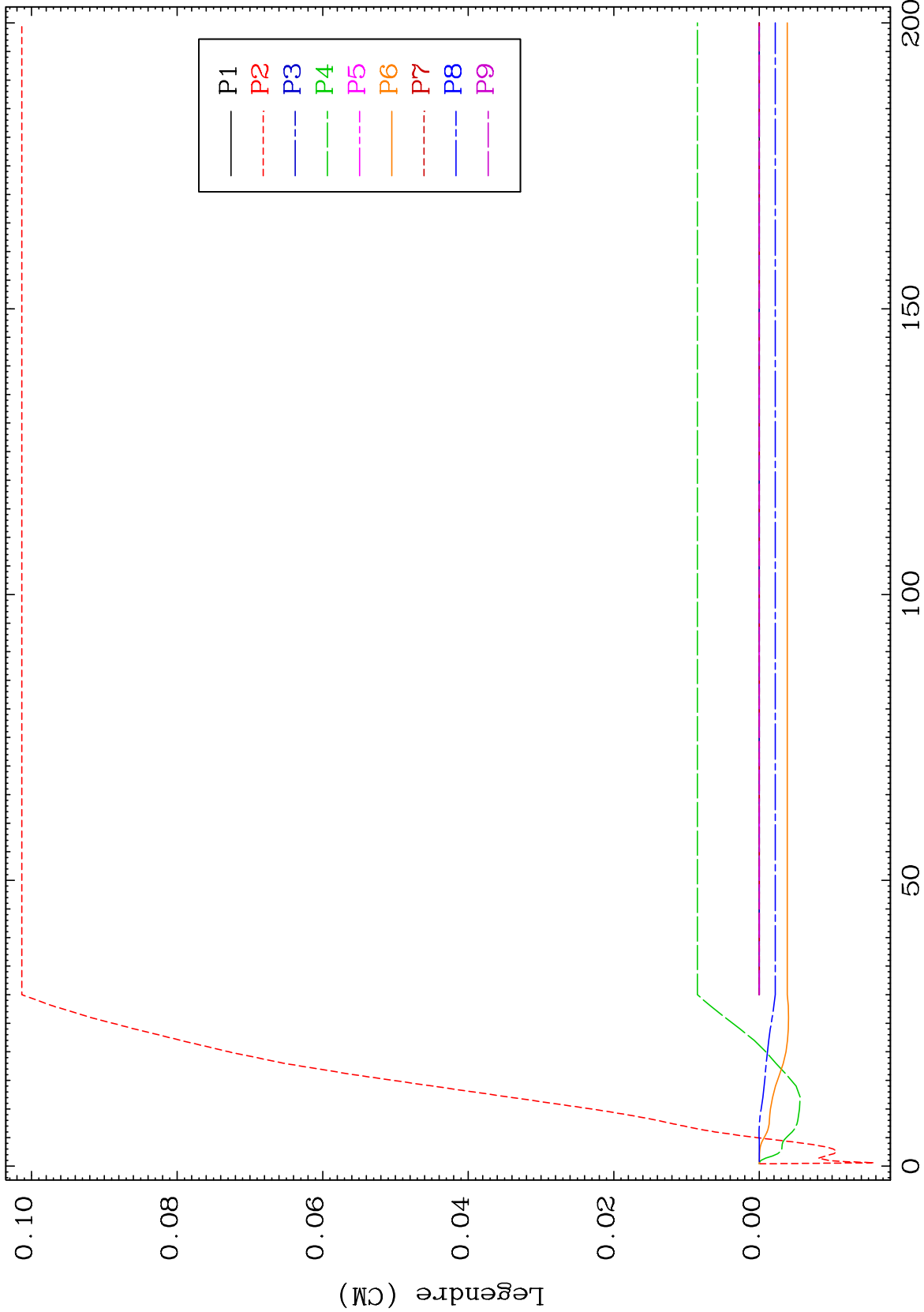
Incident Energy (MeV)

44-Ru-103

MAT 4446

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

44-Ru-103



44-Ru-103

Incident Energy (MeV)

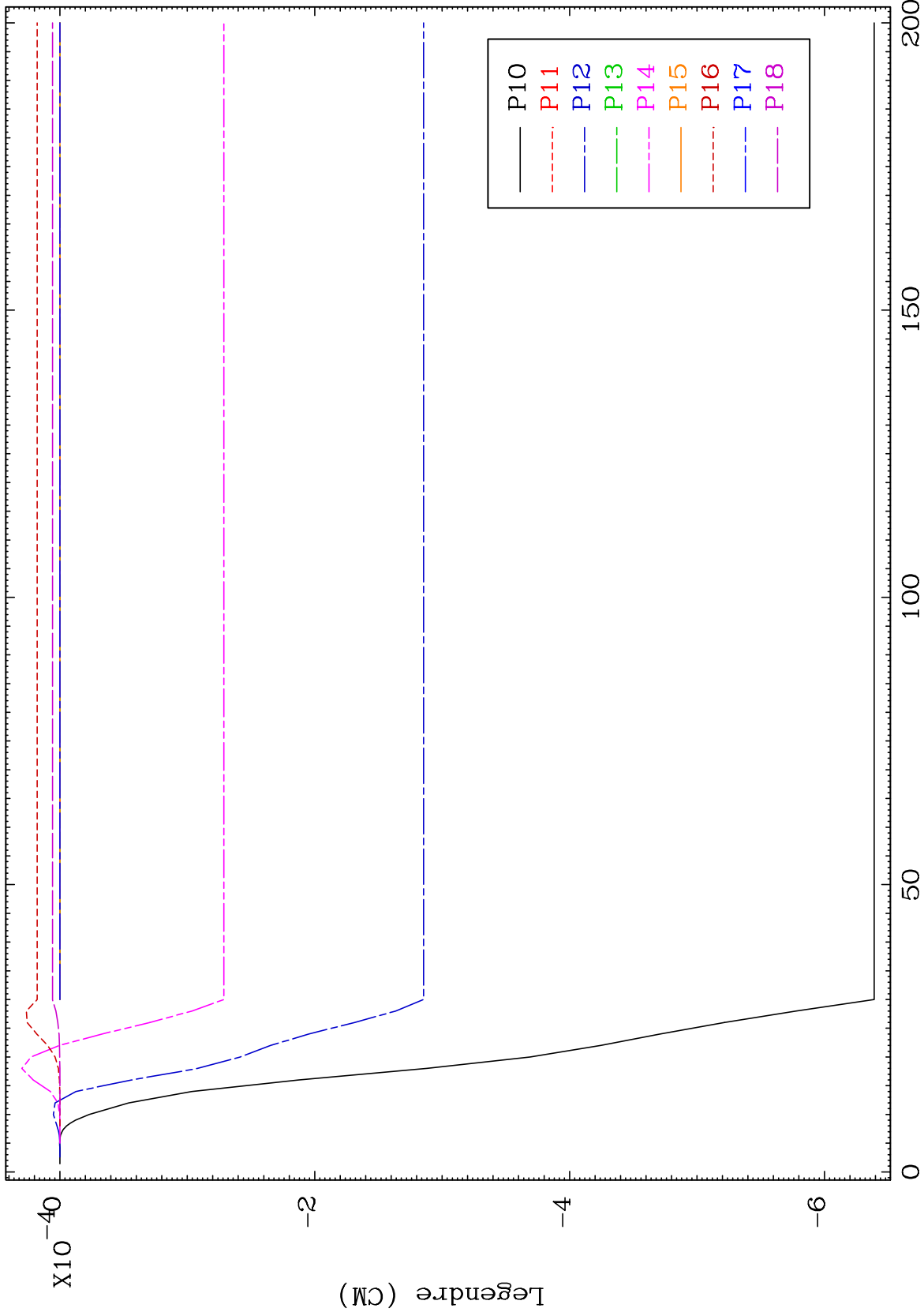
42

MAT 4446

MT= 58 (n,n') Level

44-Ru-103

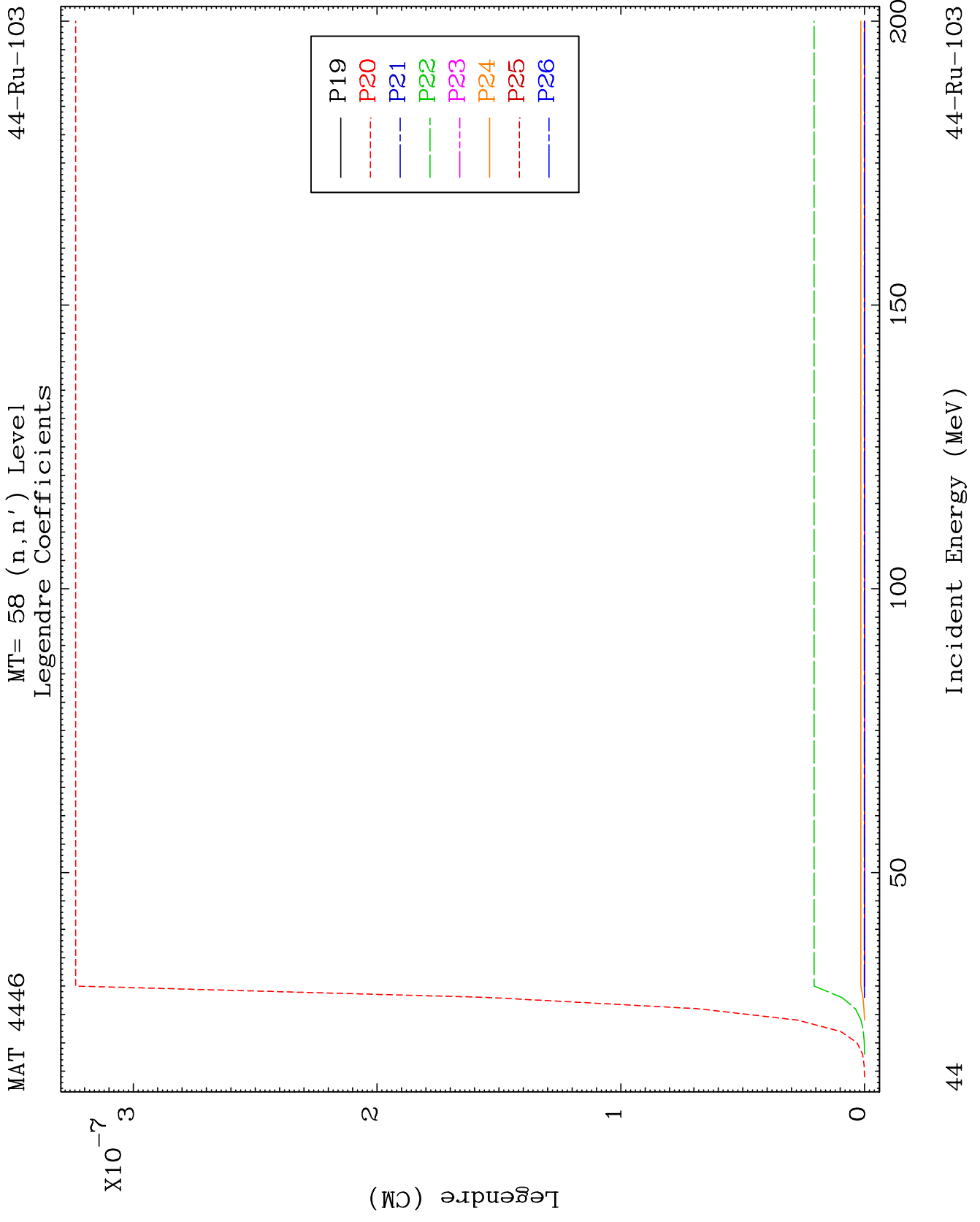
Legendre Coefficients



43

Incident Energy (MeV)

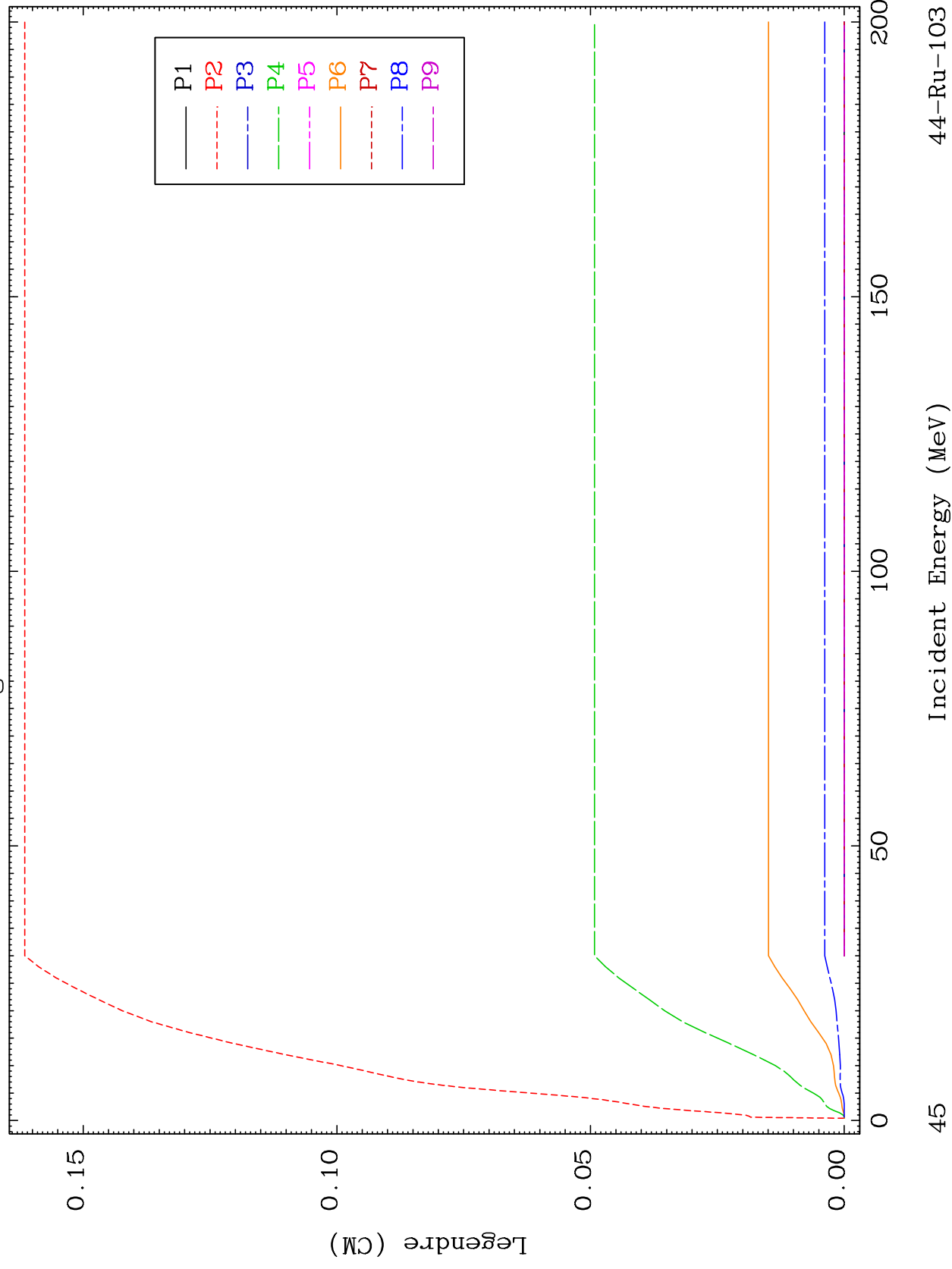
44-Ru-103



MAT 4446

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

44-Ru-103



44-Ru-103

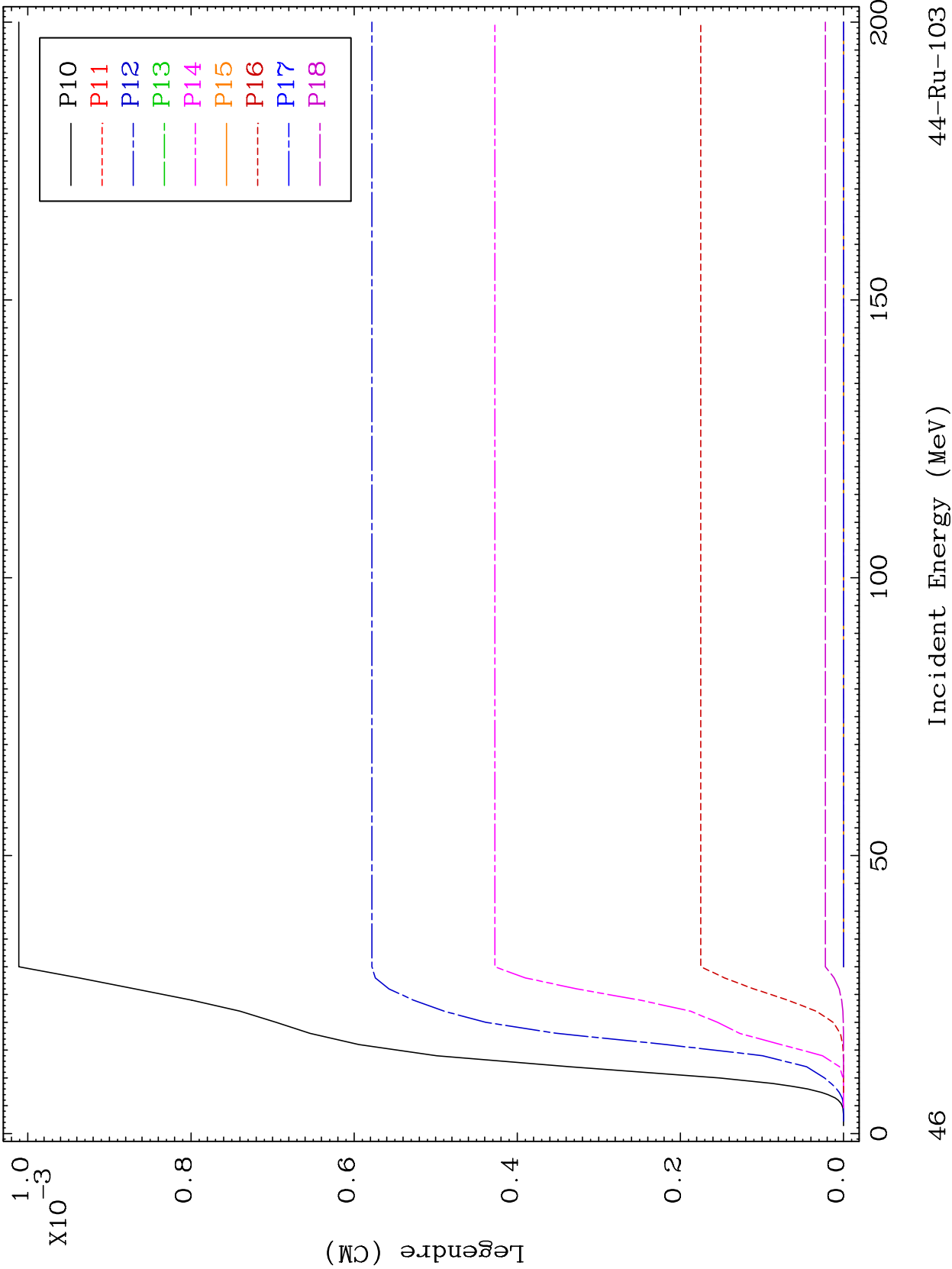
Incident Energy (MeV)

45

MAT 4446

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

44-Ru-103



44-Ru-103

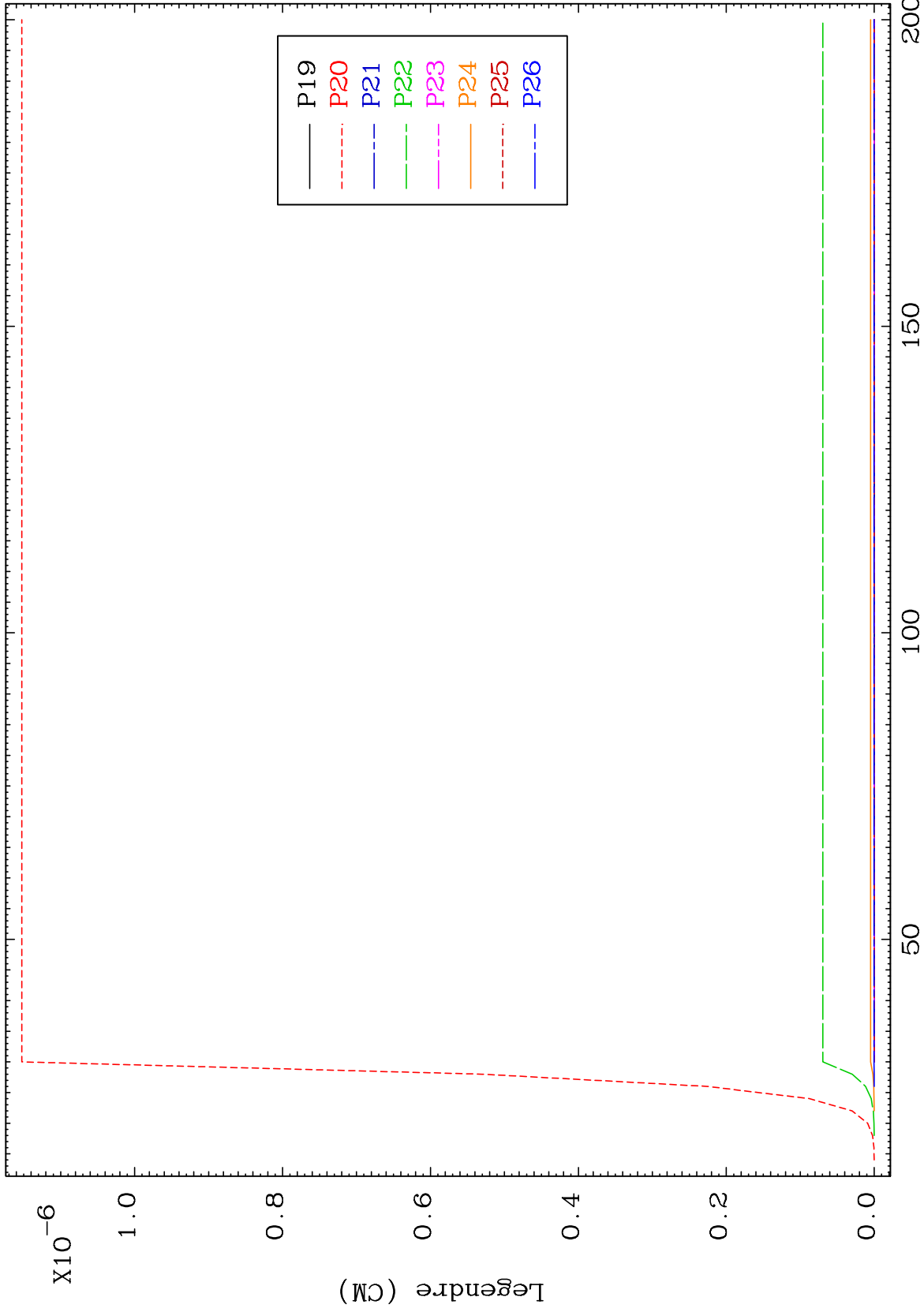
Incident Energy (MeV)

46

MAT 4446

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

44-Ru-103



47

Incident Energy (MeV)

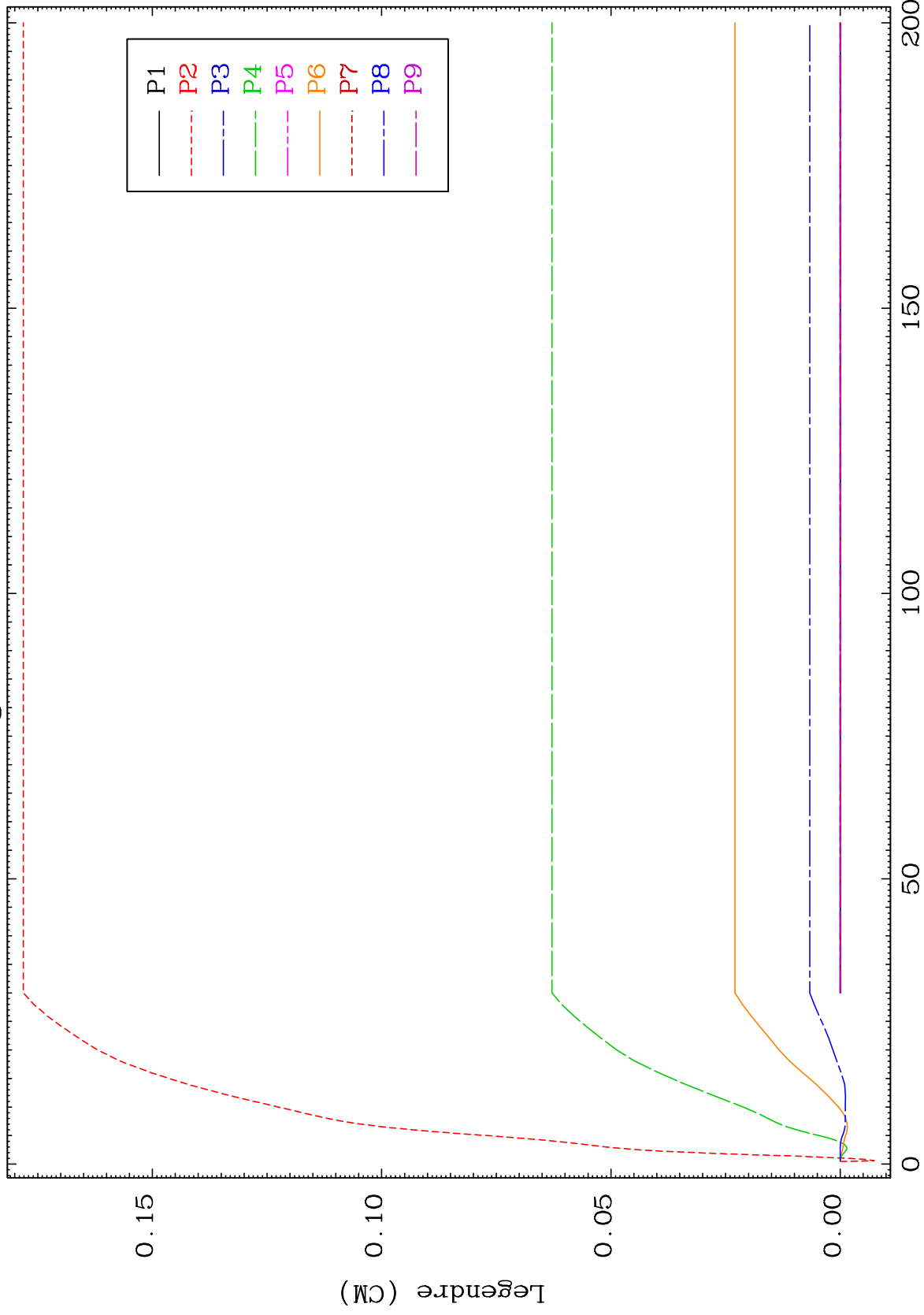
44-Ru-103



MAT 4446

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

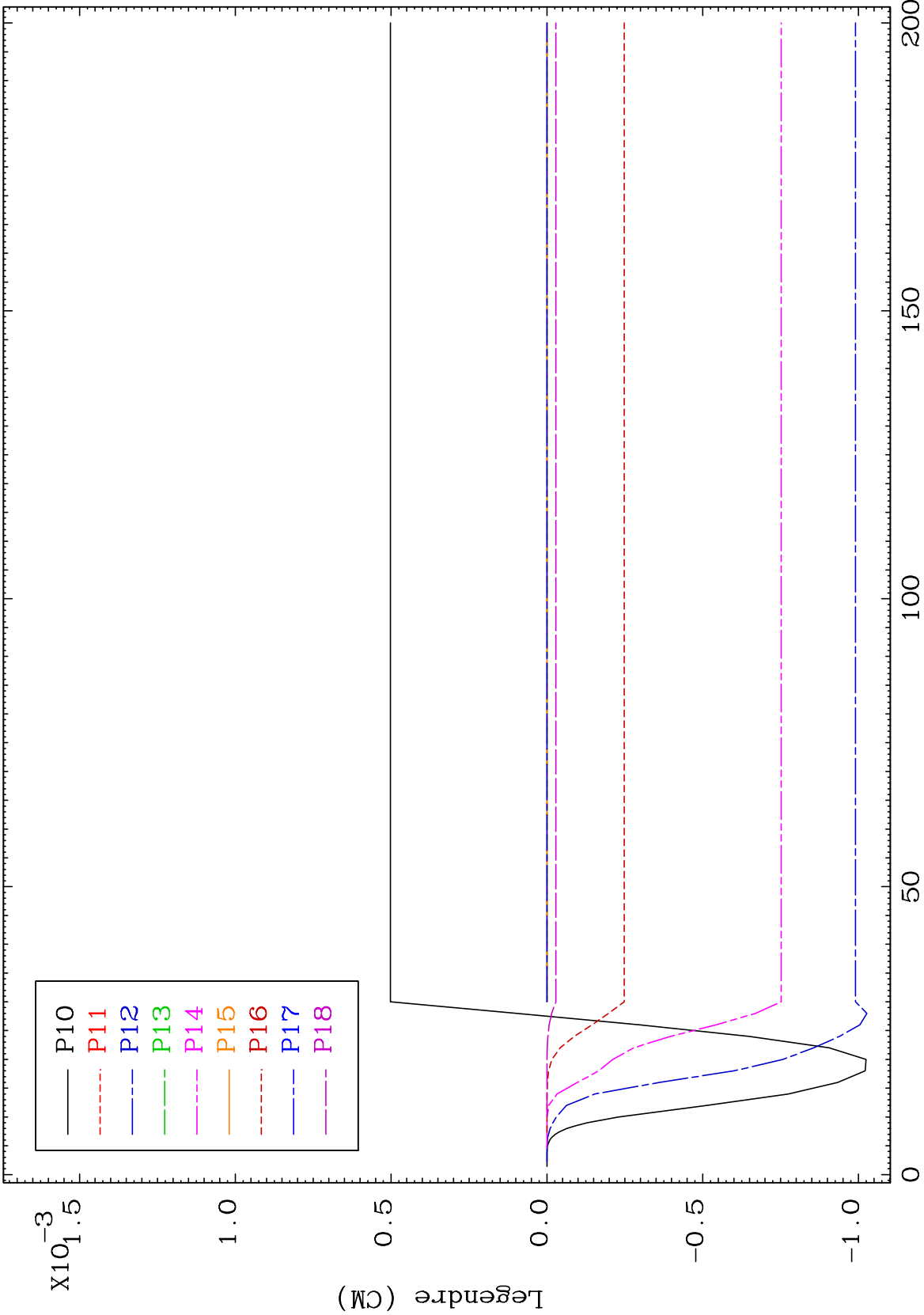
44-Ru-103

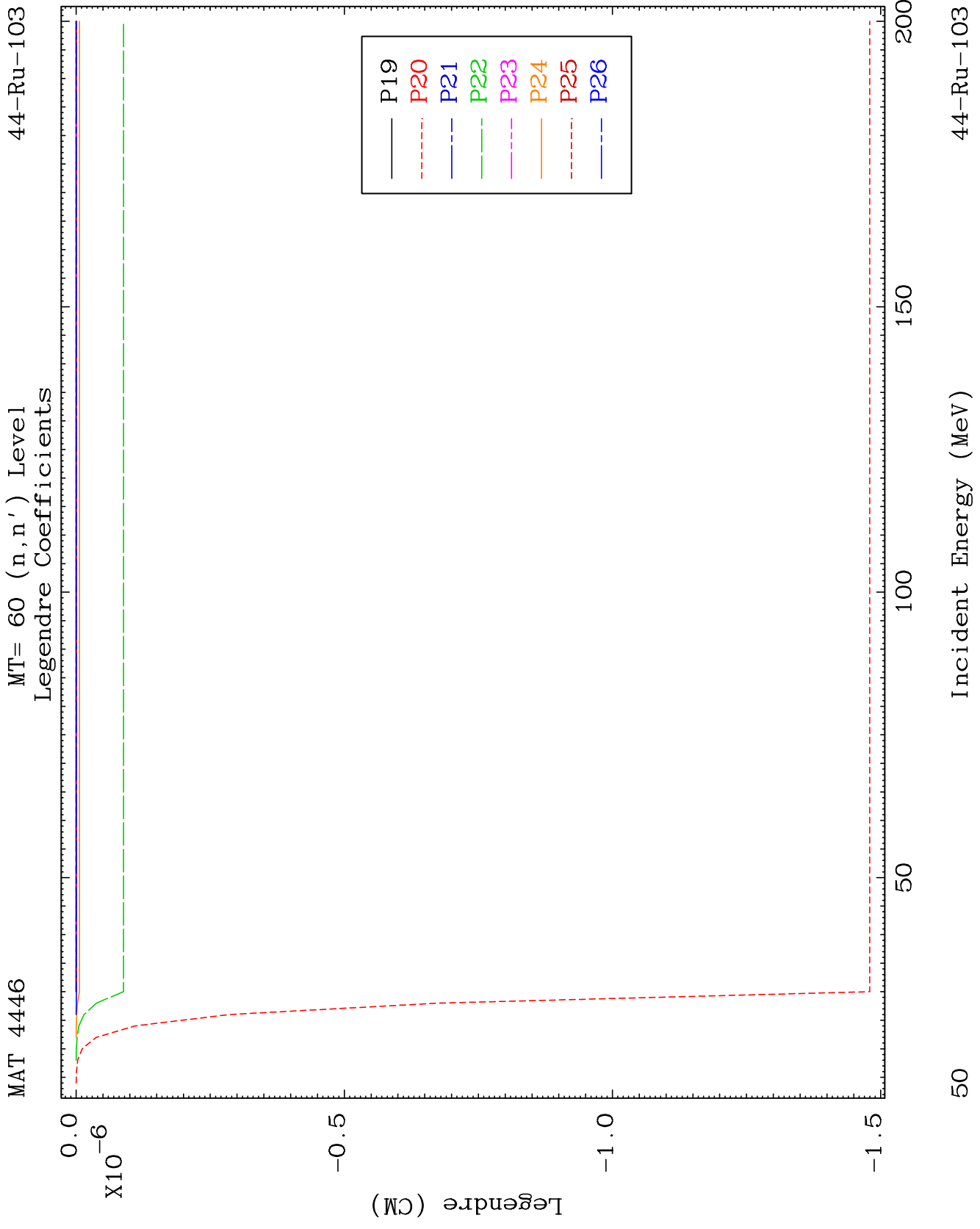


48

Incident Energy (MeV)

44-Ru-103



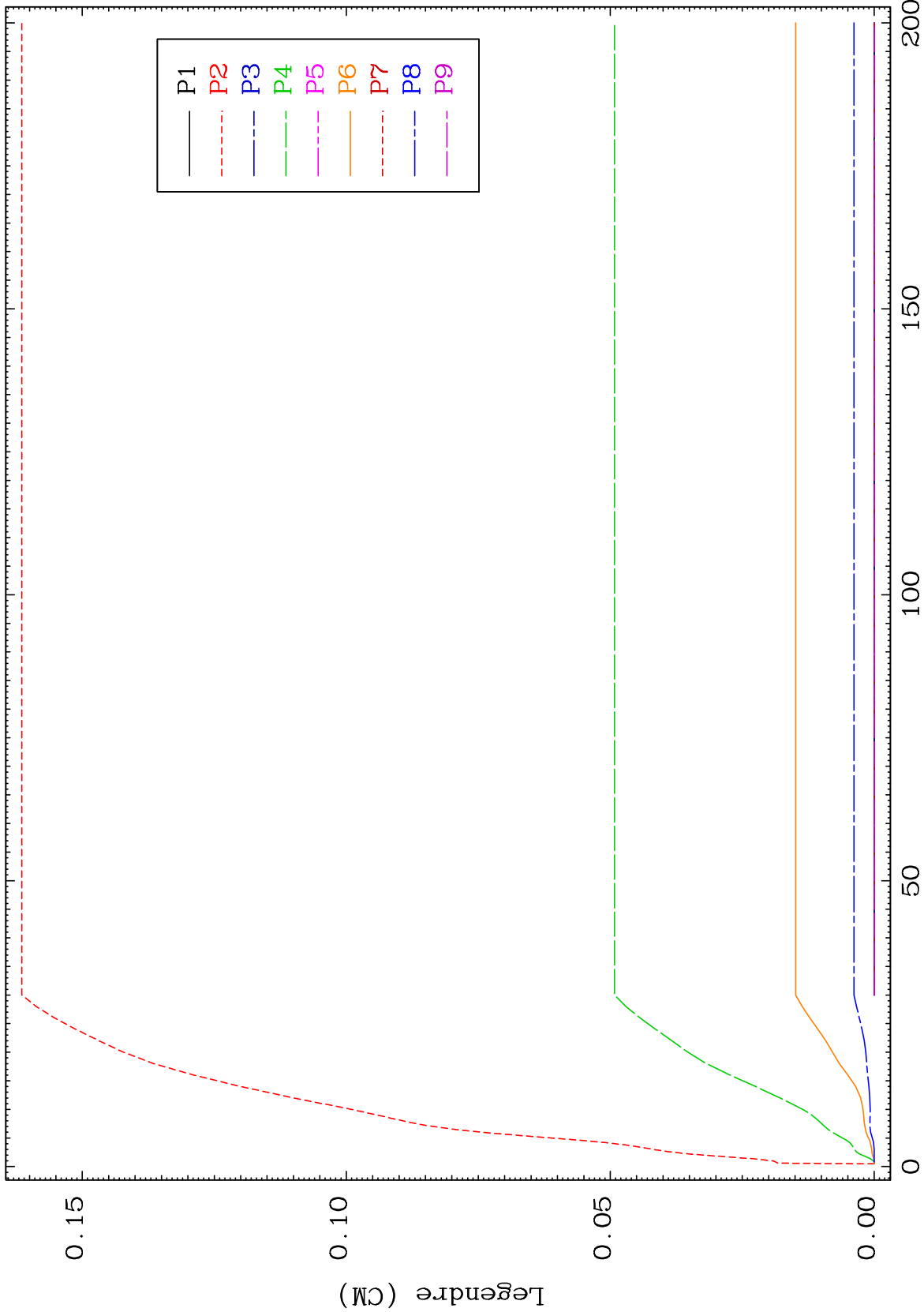


MAT 4446

MT= 61 (n,n') Level

44-Ru-103

Legendre Coefficients



51

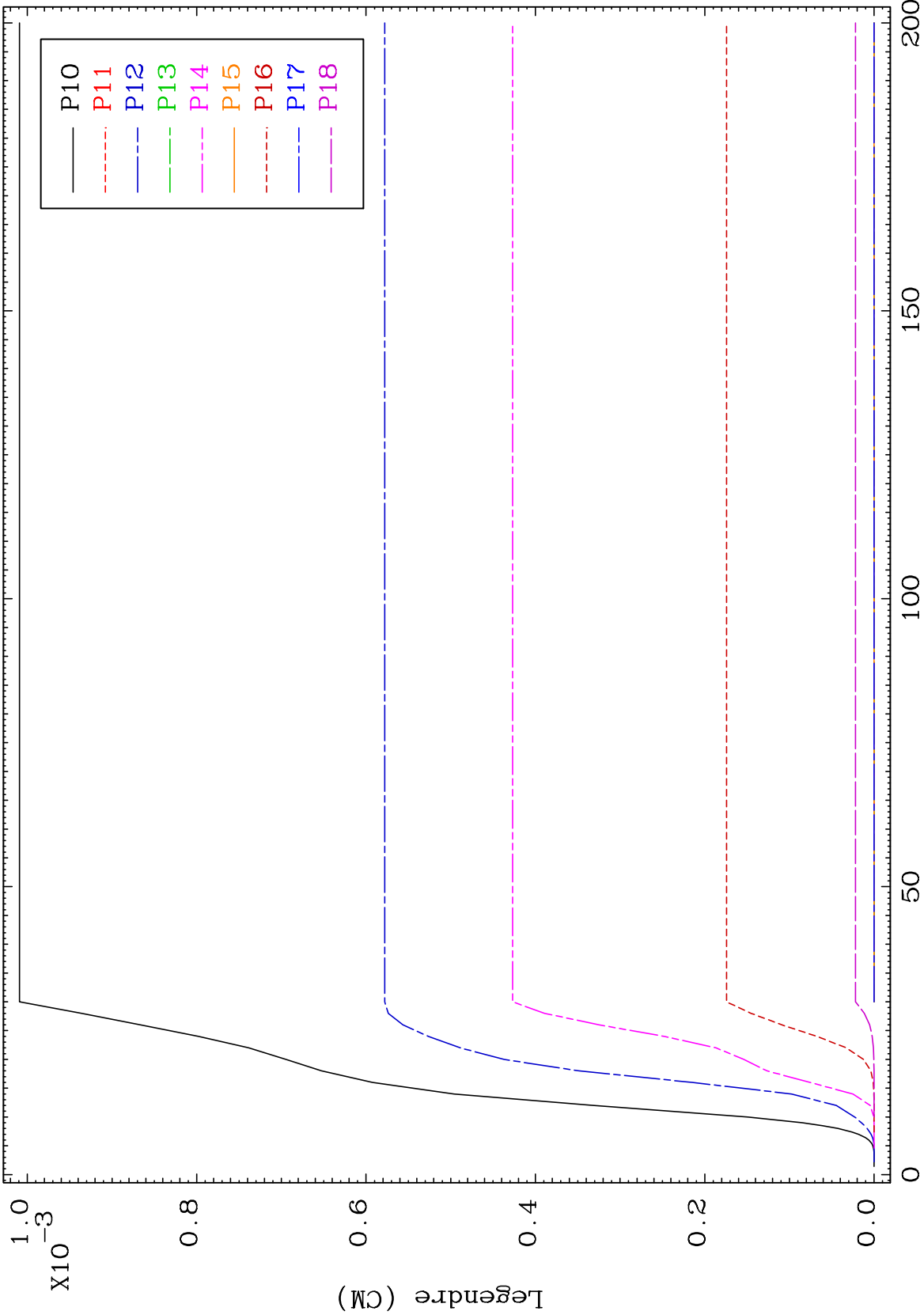
Incident Energy (MeV)

44-Ru-103

MAT 4446

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

44-Ru-103



52

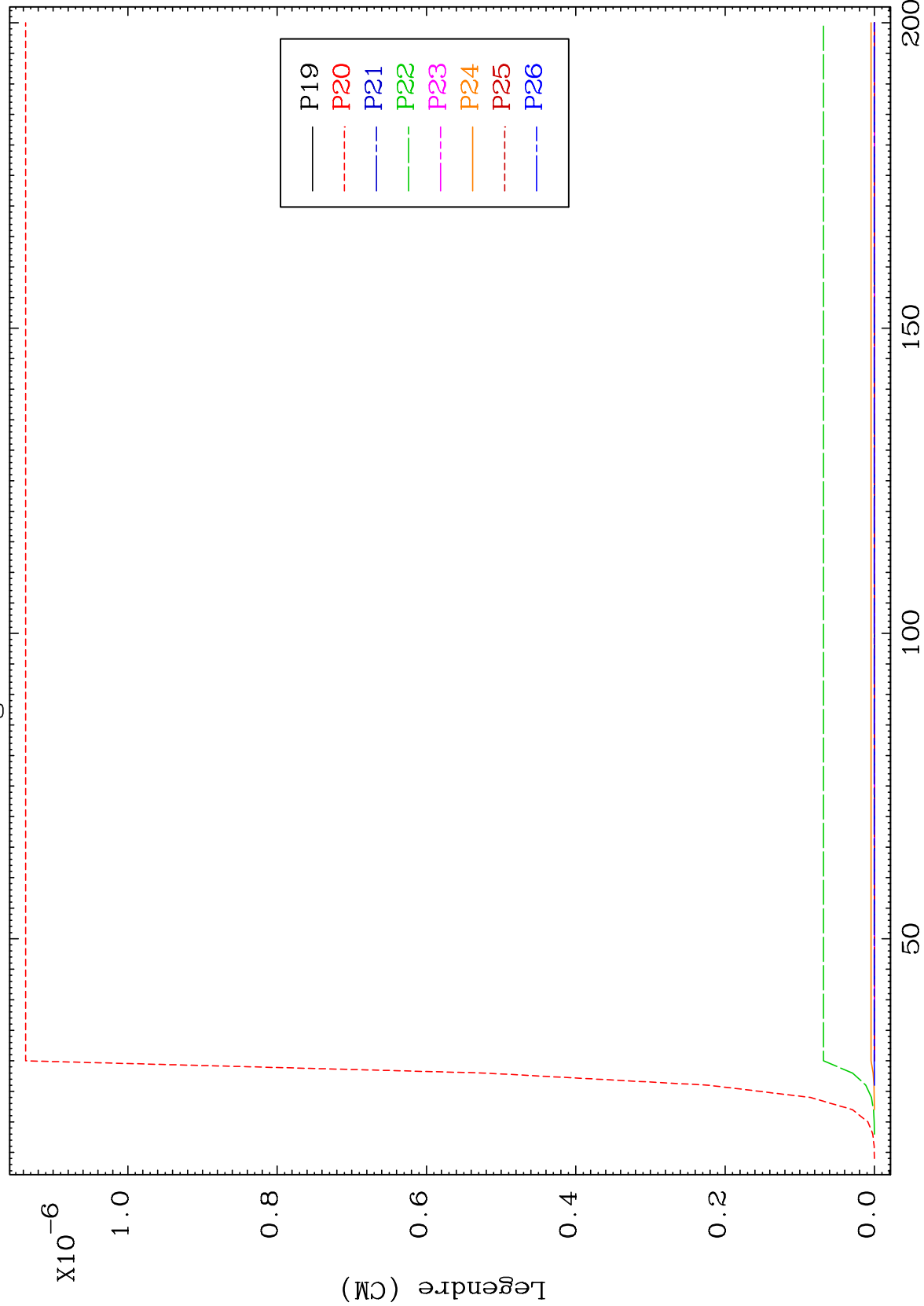
Incident Energy (MeV)

44-Ru-103

MAT 4446

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

44-Ru-103



53

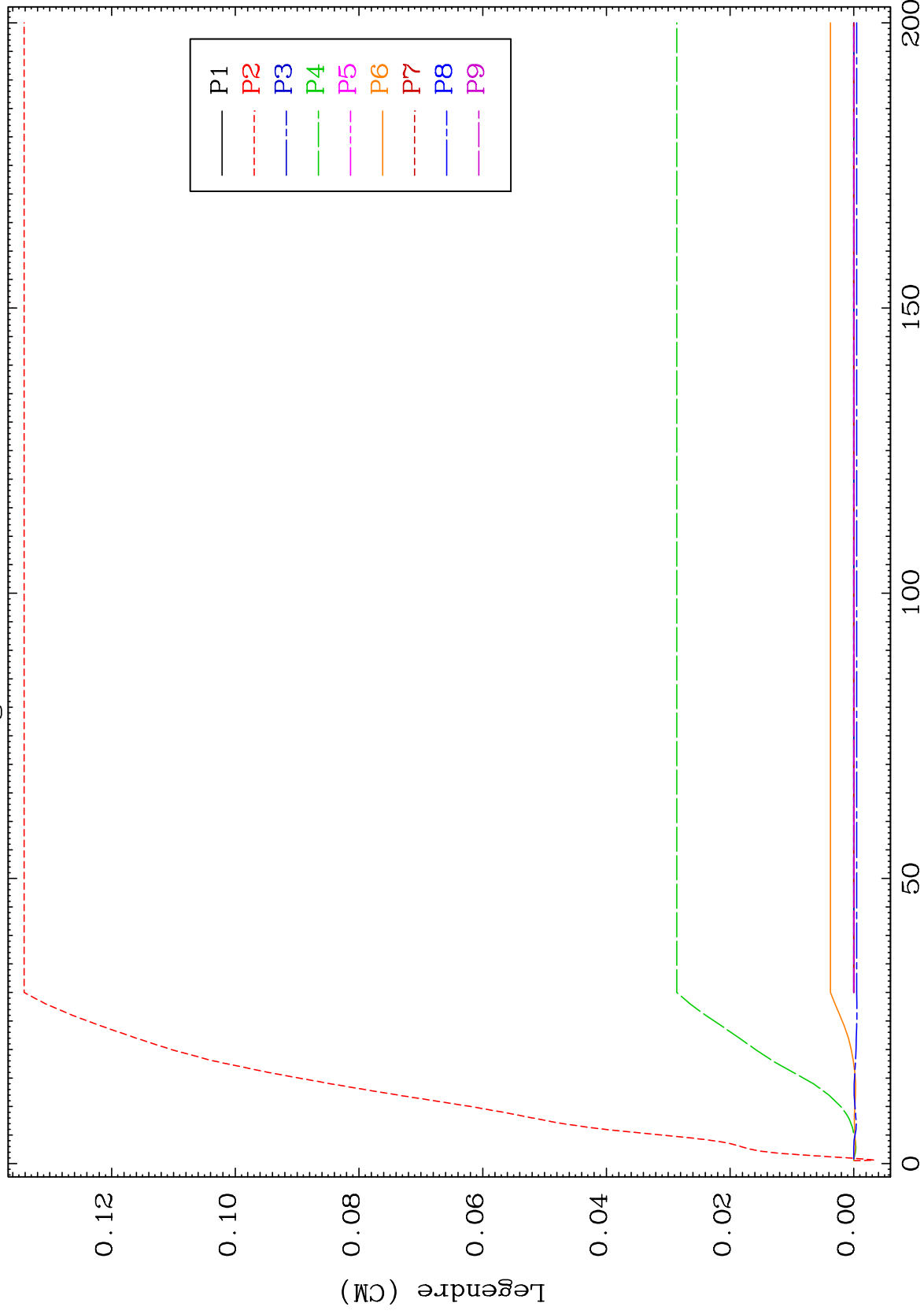
Incident Energy (MeV)

44-Ru-103

MAT 4446

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

44-Ru-103



54

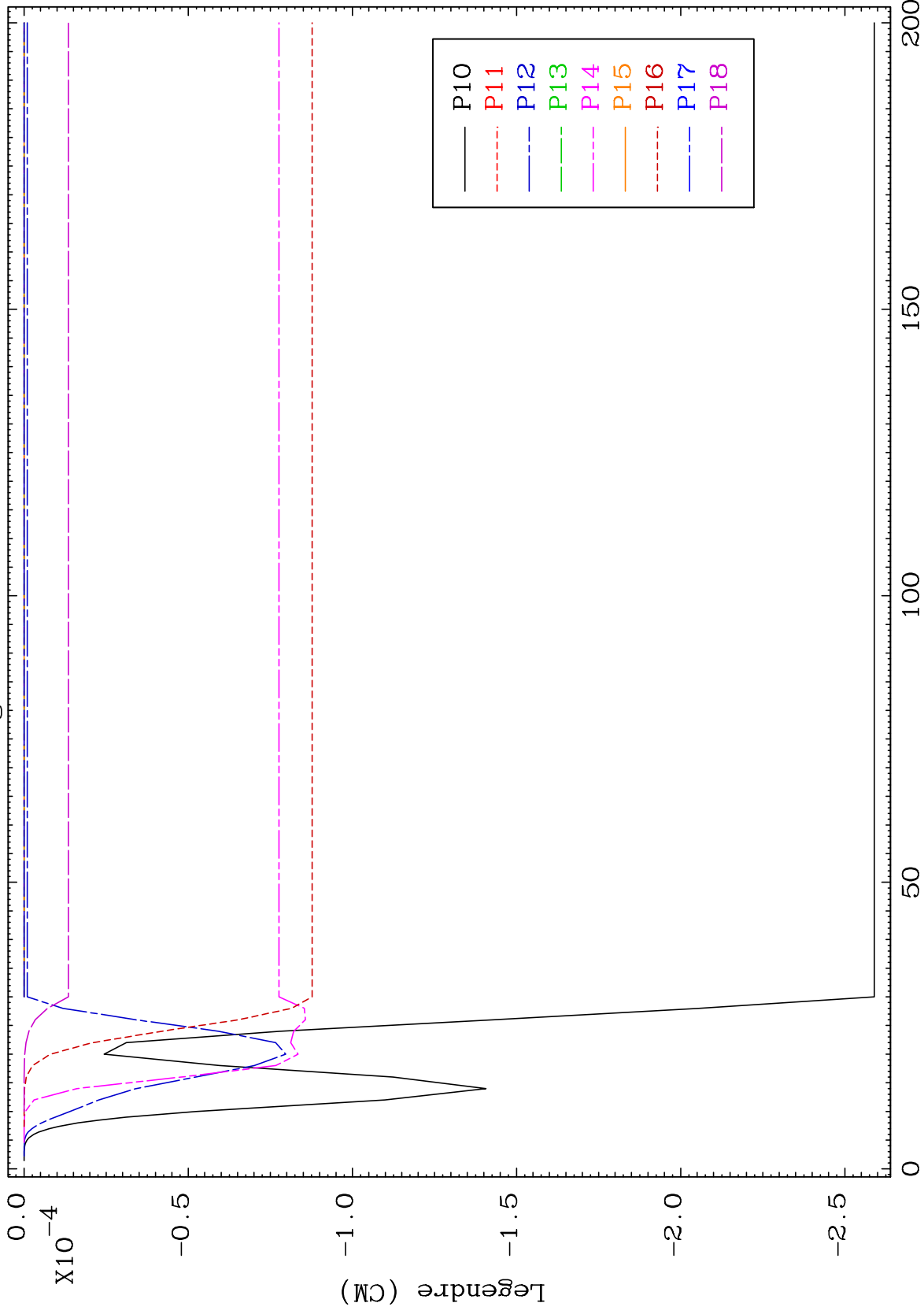
Incident Energy (MeV)

44-Ru-103

MAT 4446

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

44-Ru-103



55

Incident Energy (MeV)

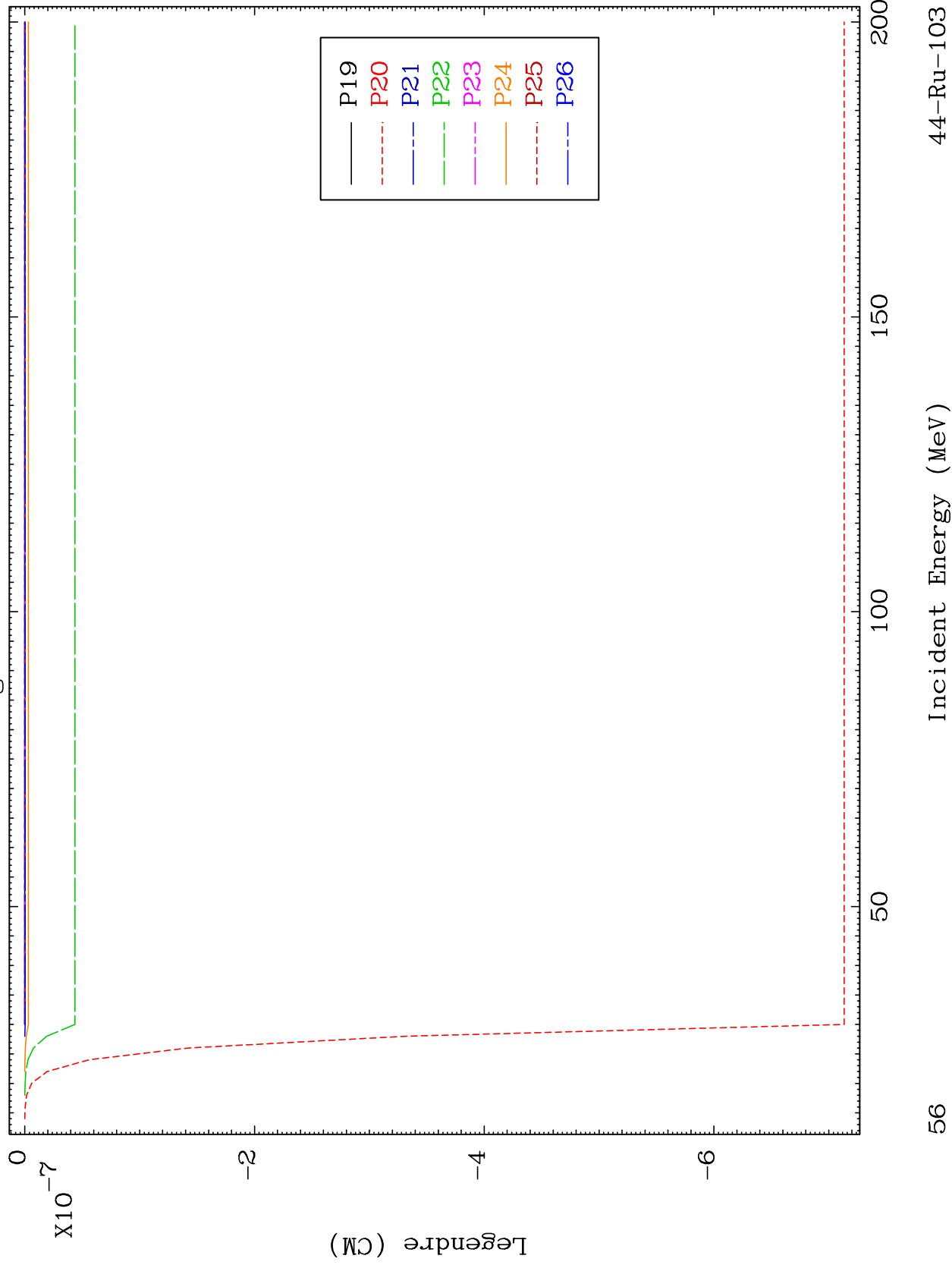
44-Ru-103



MAT 4446

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

44-Ru-103



56

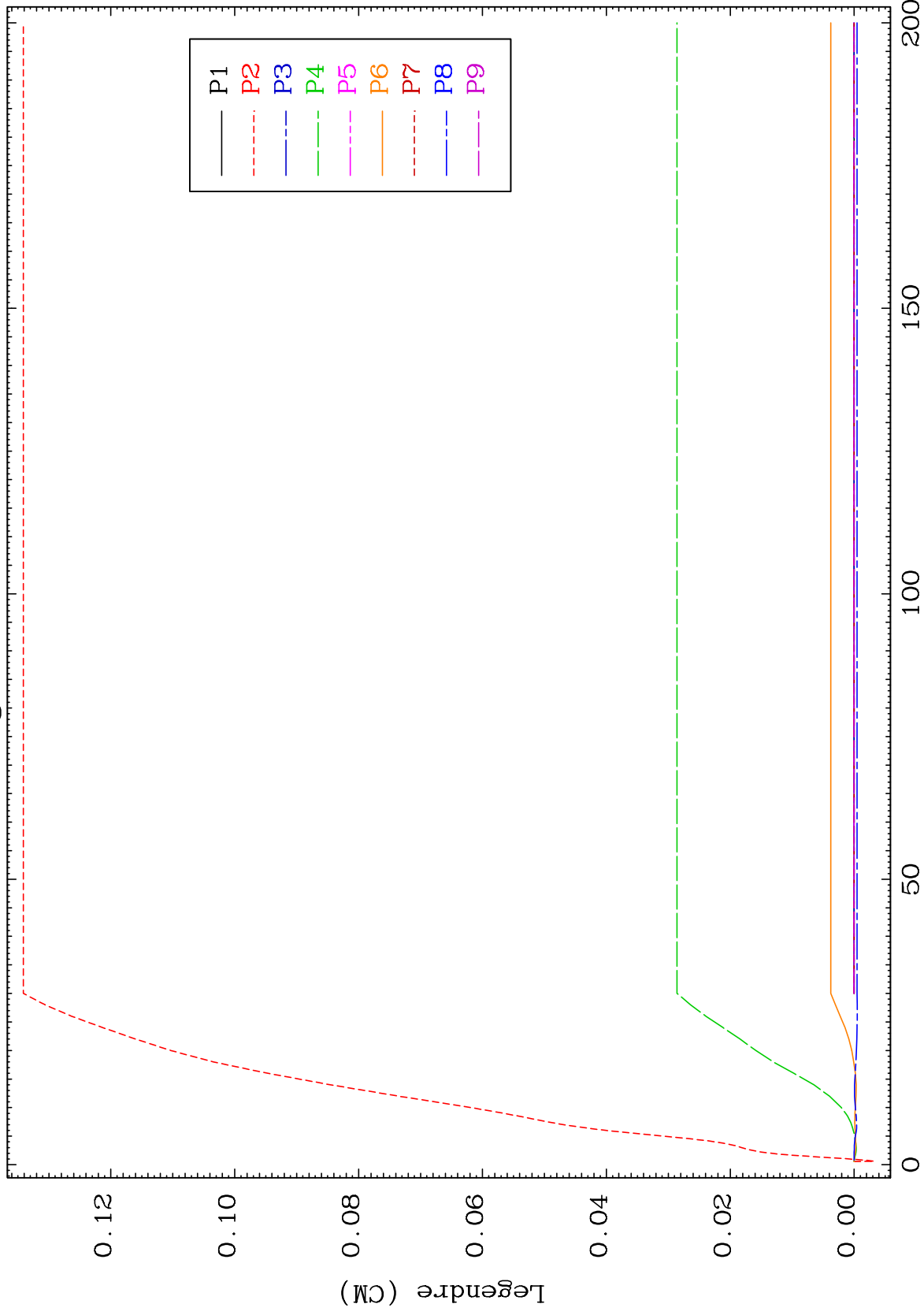
Incident Energy (MeV)

44-Ru-103

MAT 4446

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

44-Ru-103



57

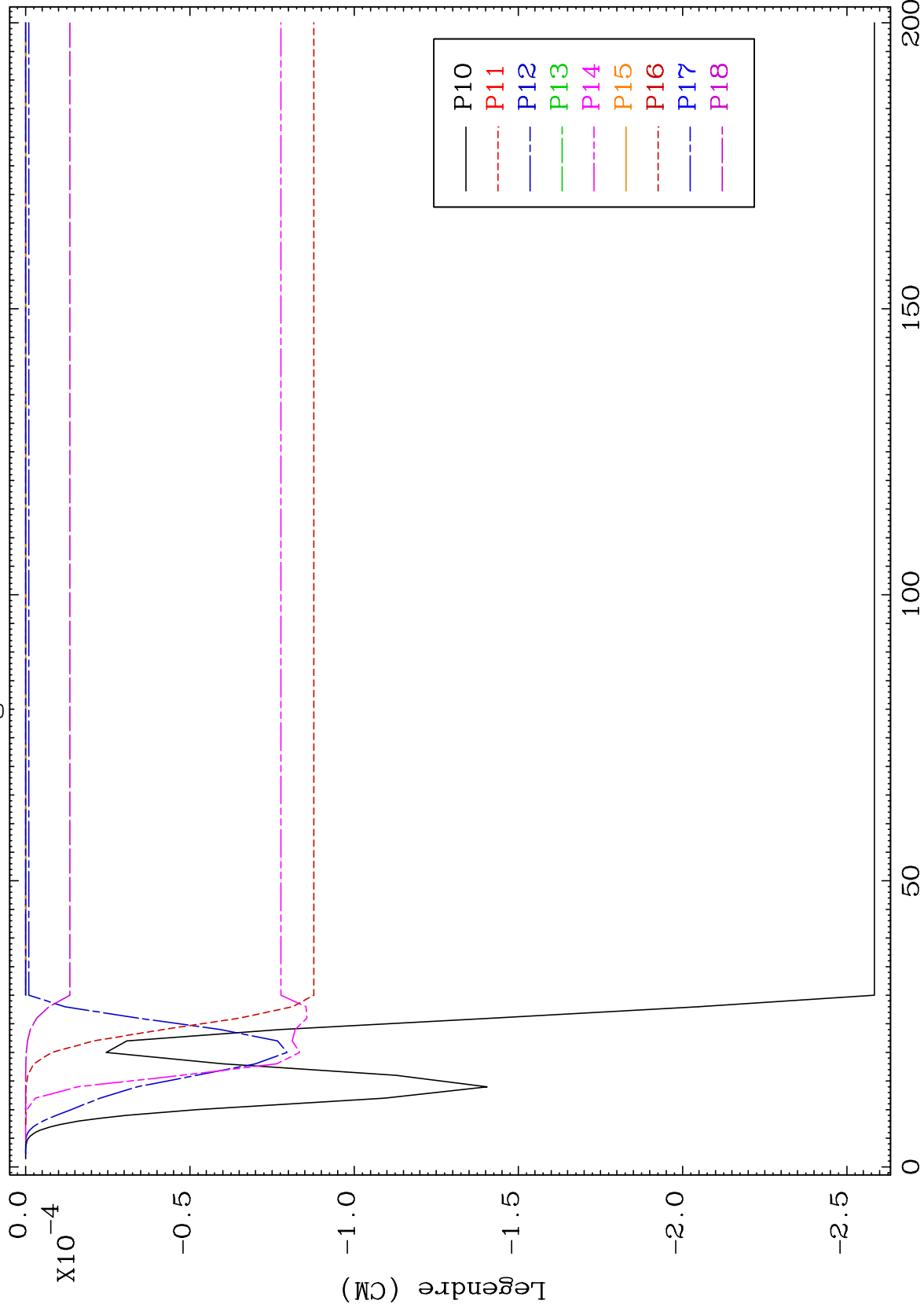
Incident Energy (MeV)

44-Ru-103

MAT 4446

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

44-Ru-103



58

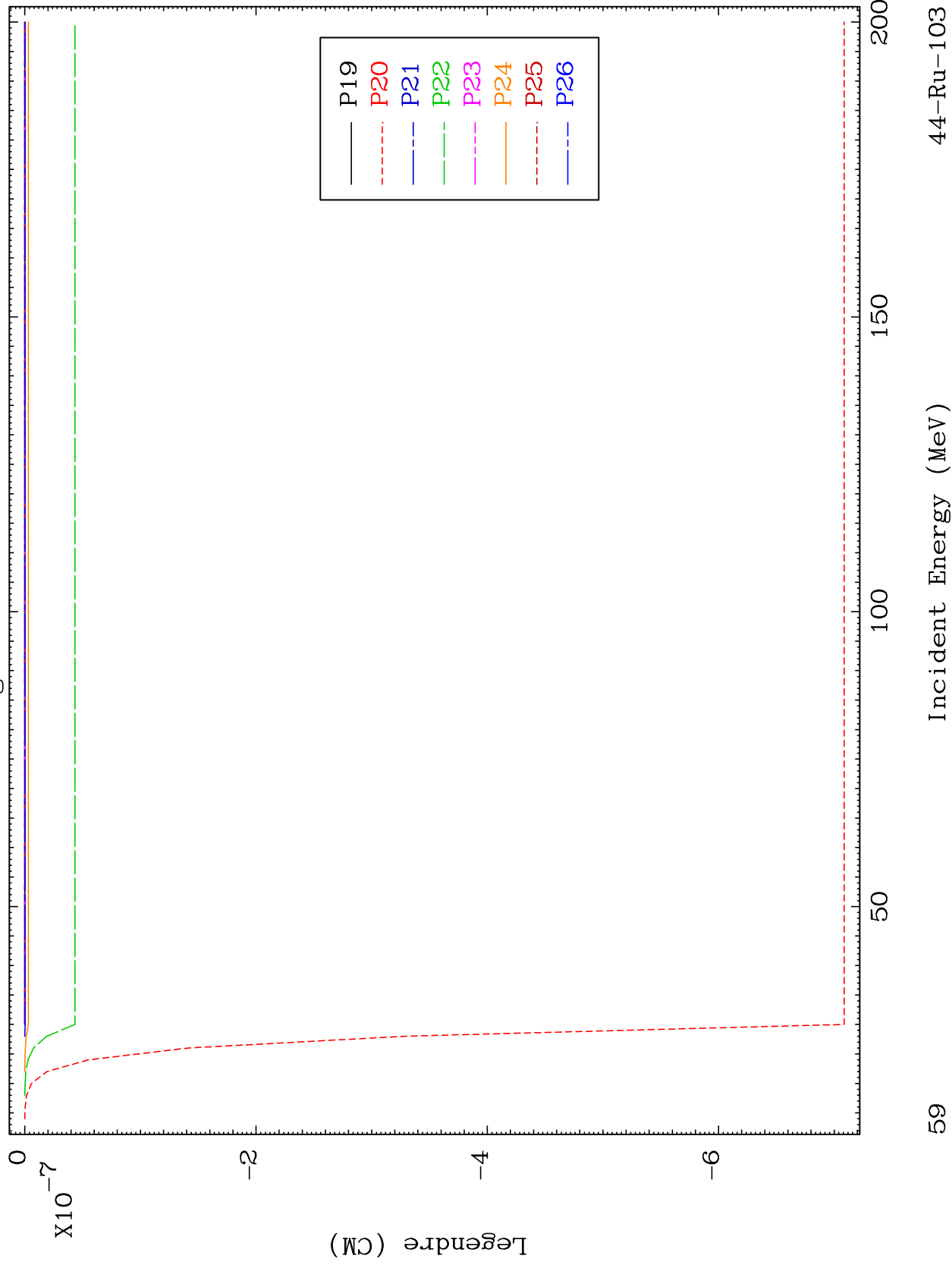
Incident Energy (MeV)

44-Ru-103

MAT 4446

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

44-Ru-103



59

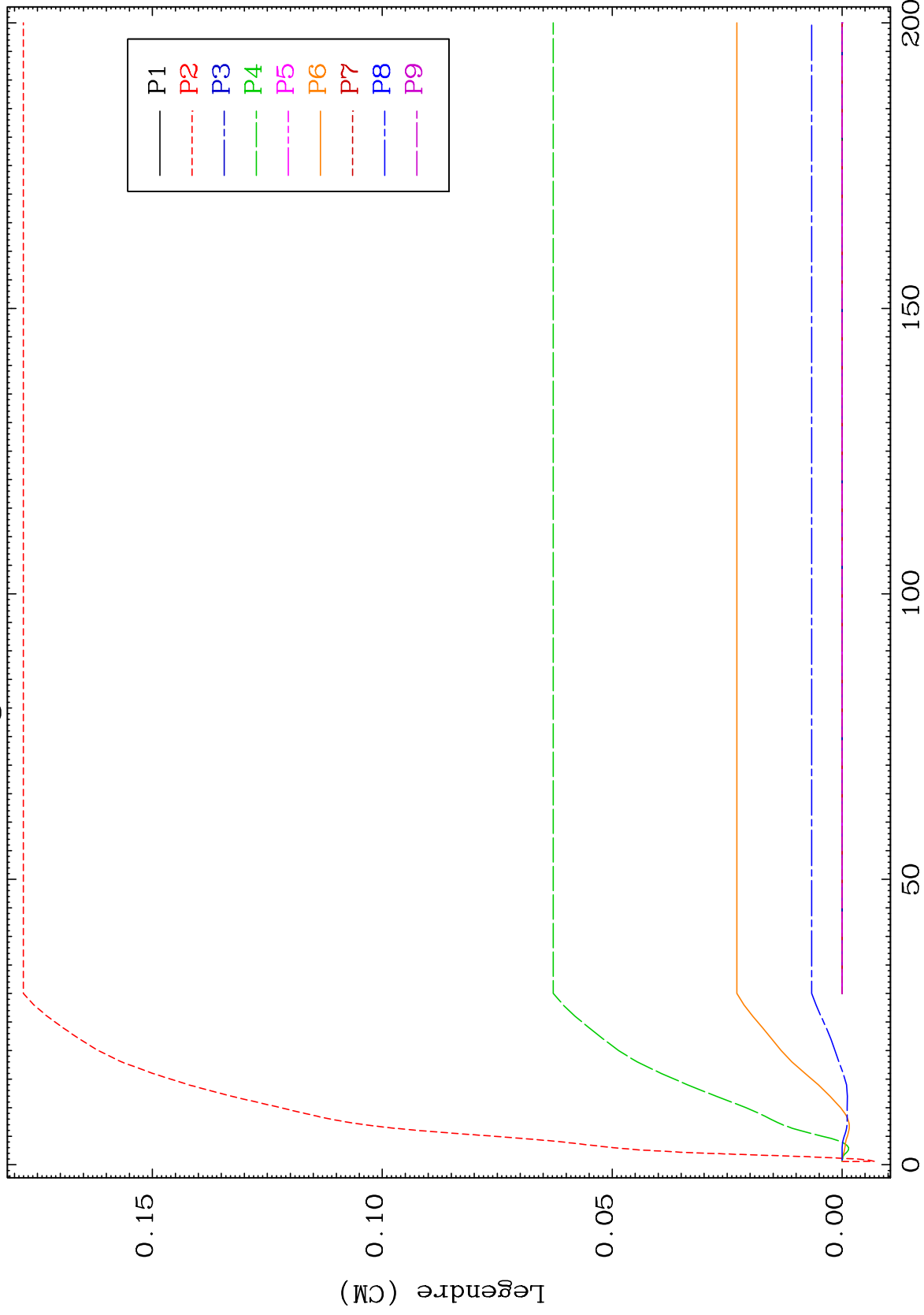
Incident Energy (MeV)

44-Ru-103

MAT 4446

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

44-Ru-103



44-Ru-103

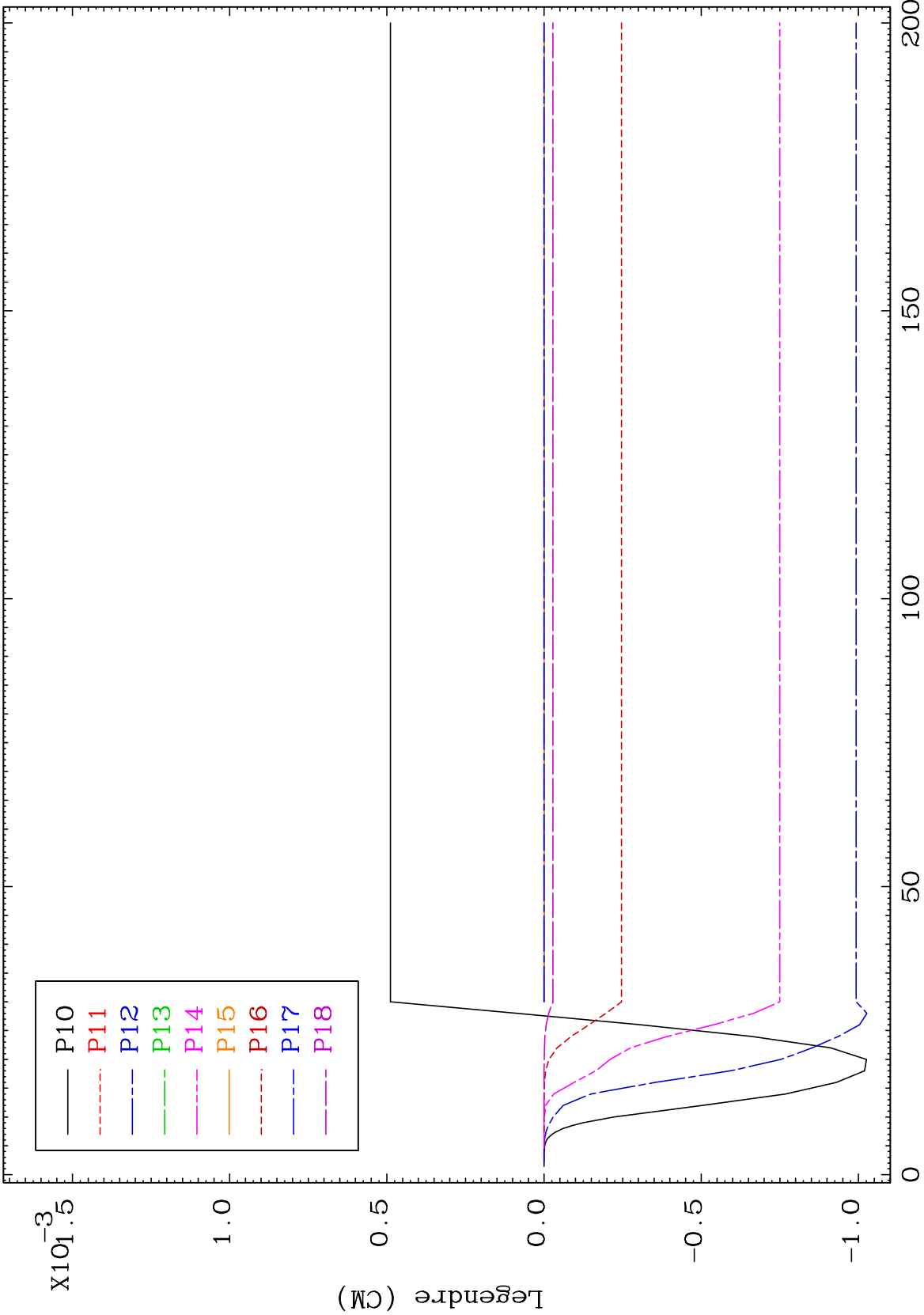
Incident Energy (MeV)

60

MAT 4446

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

44-Ru-103



61

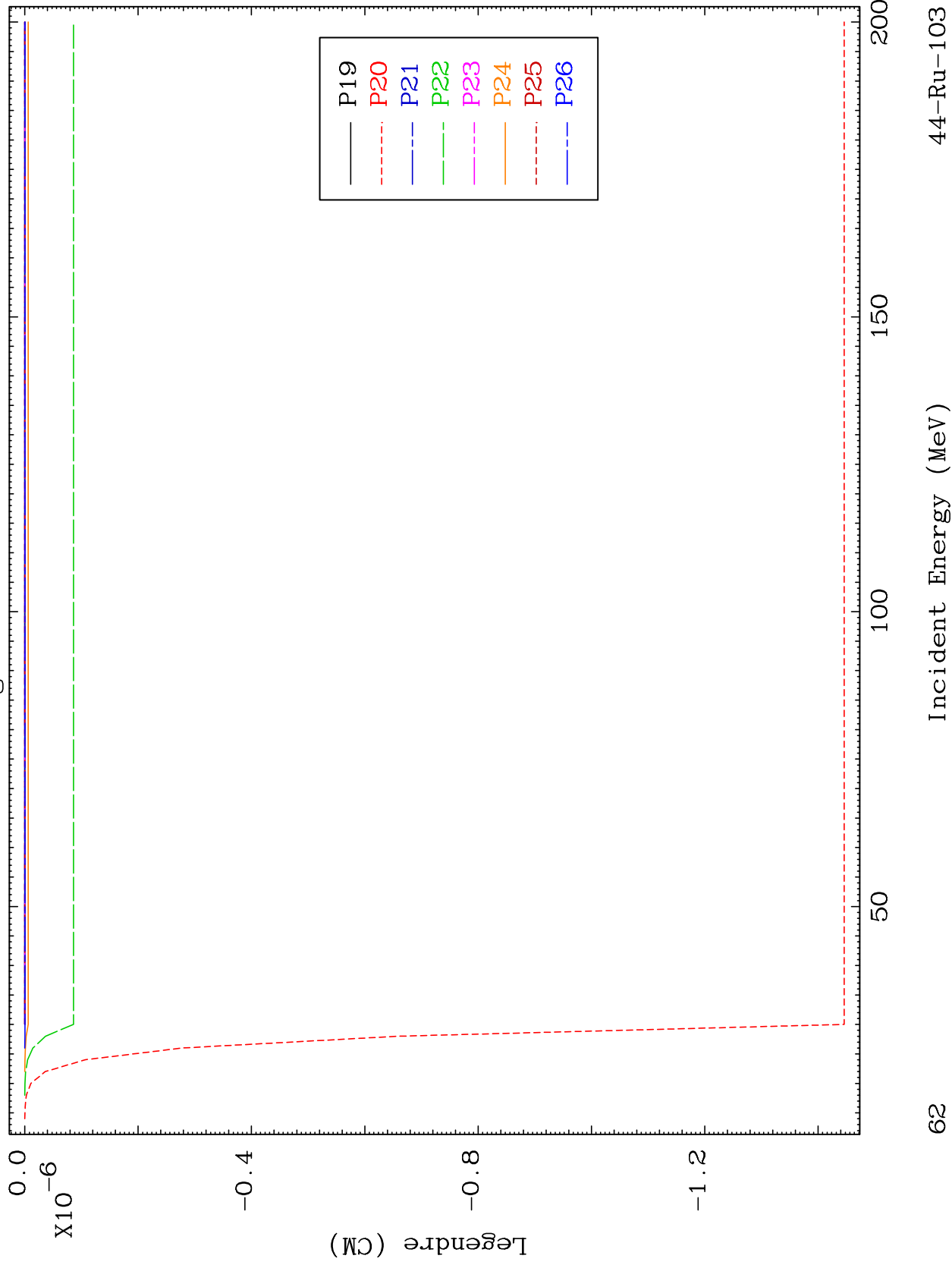
Incident Energy (MeV)

44-Ru-103

MAT 4446

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

44-Ru-103



62

Incident Energy (MeV)

44-Ru-103

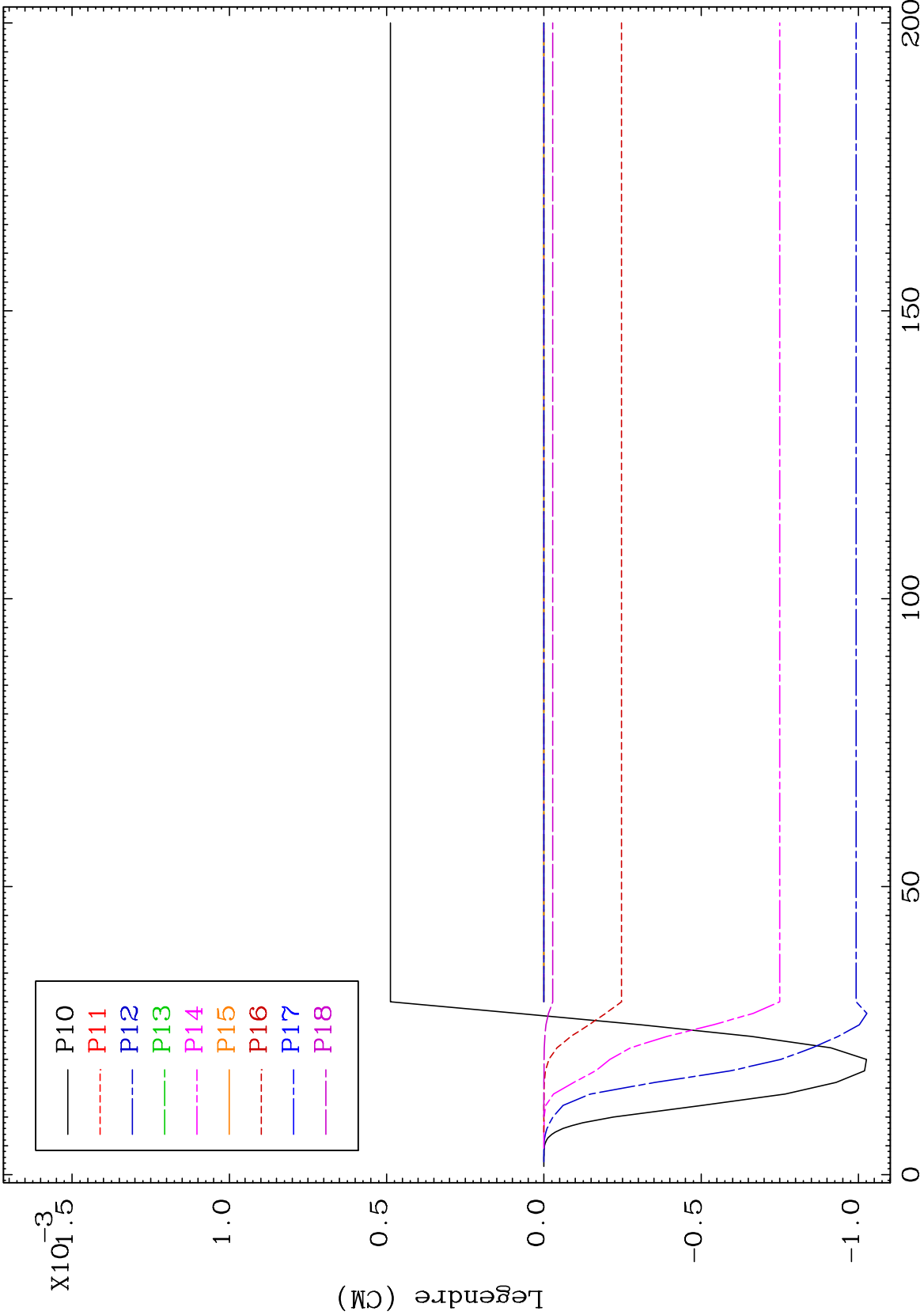




MAT 4446

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

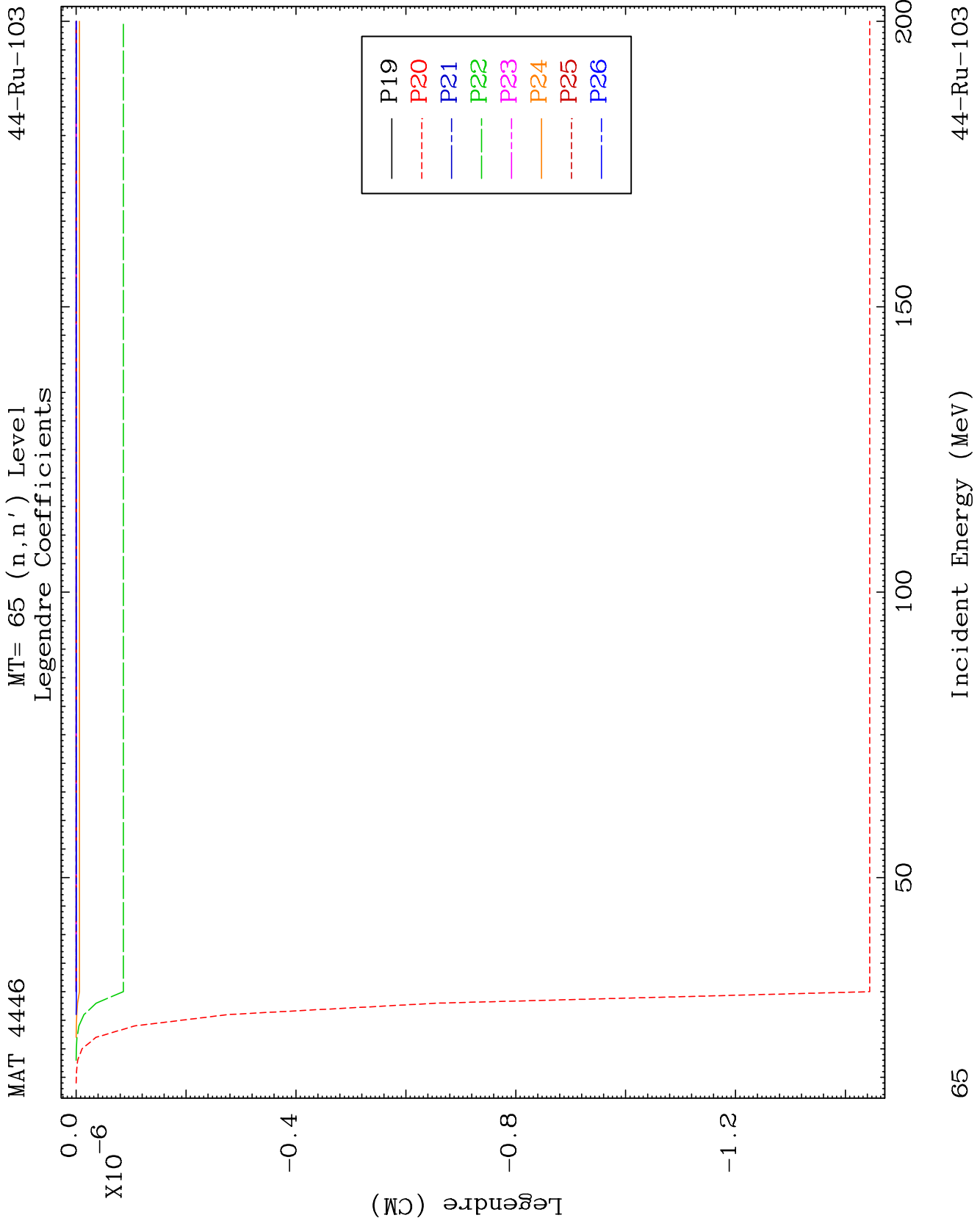
44-Ru-103



64

Incident Energy (MeV)

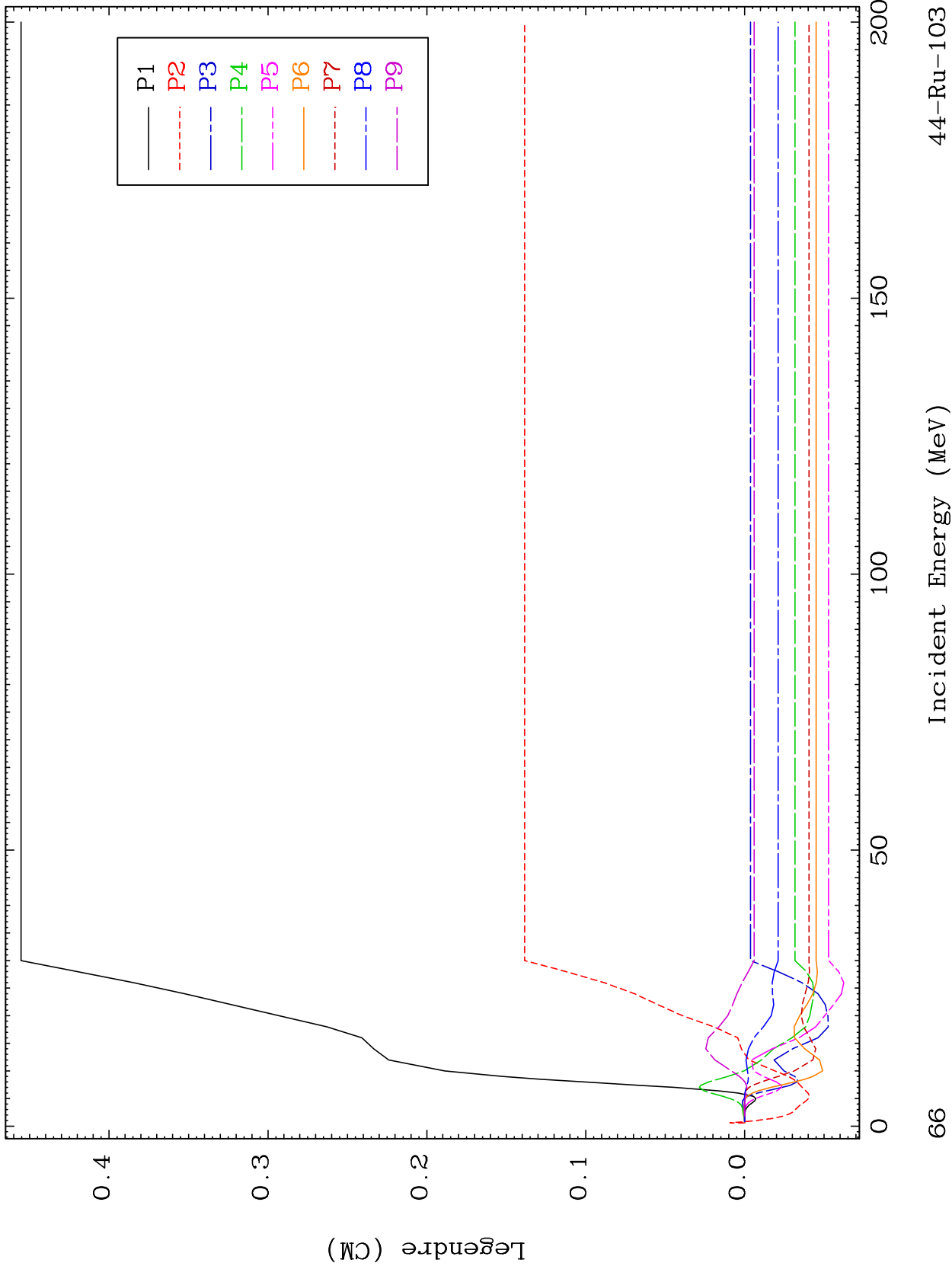
44-Ru-103



MAT 4446

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

44-Ru-103



44-Ru-103

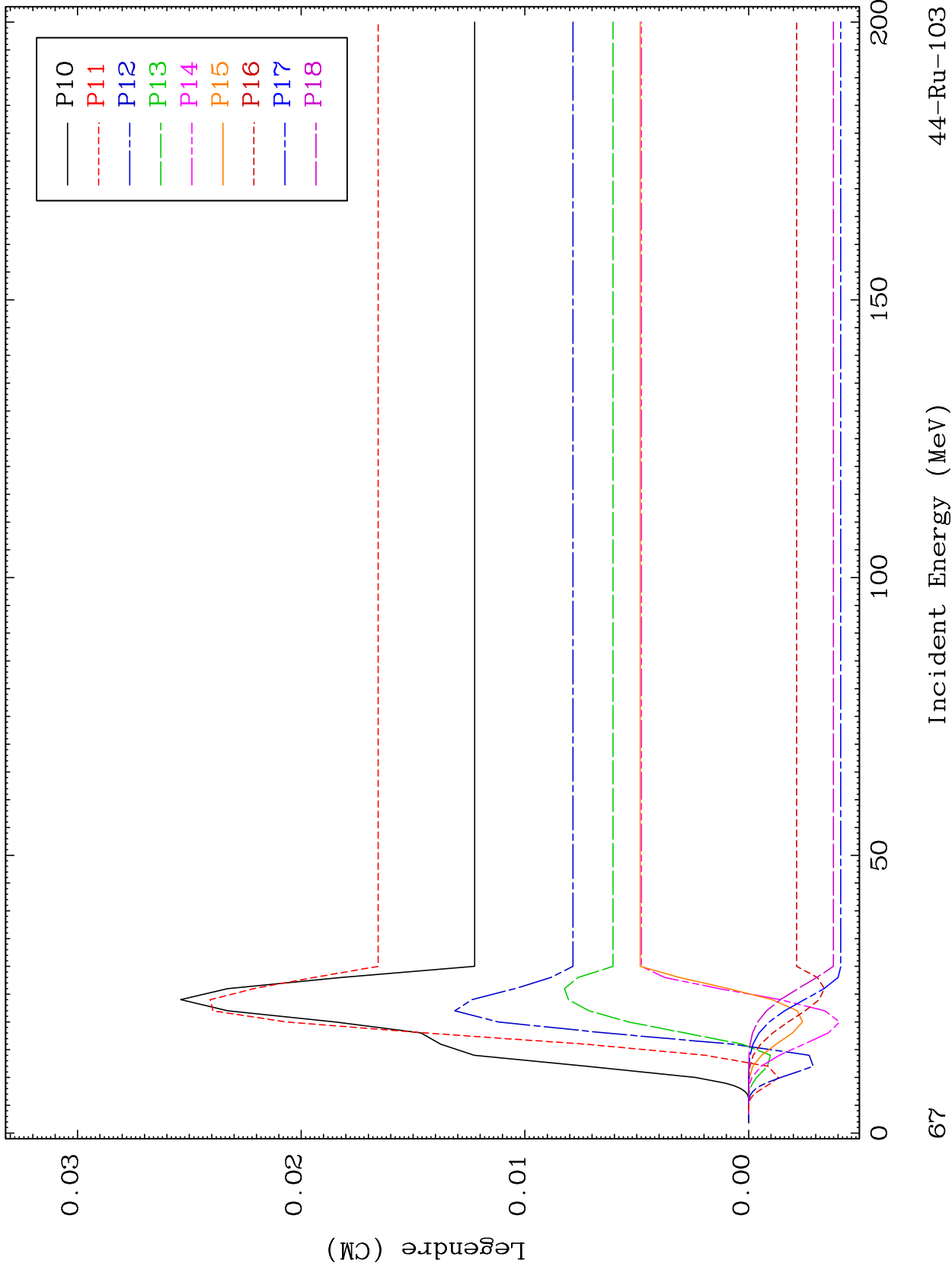
Incident Energy (MeV)

66

MAT 4446

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

44-Ru-103



44-Ru-103

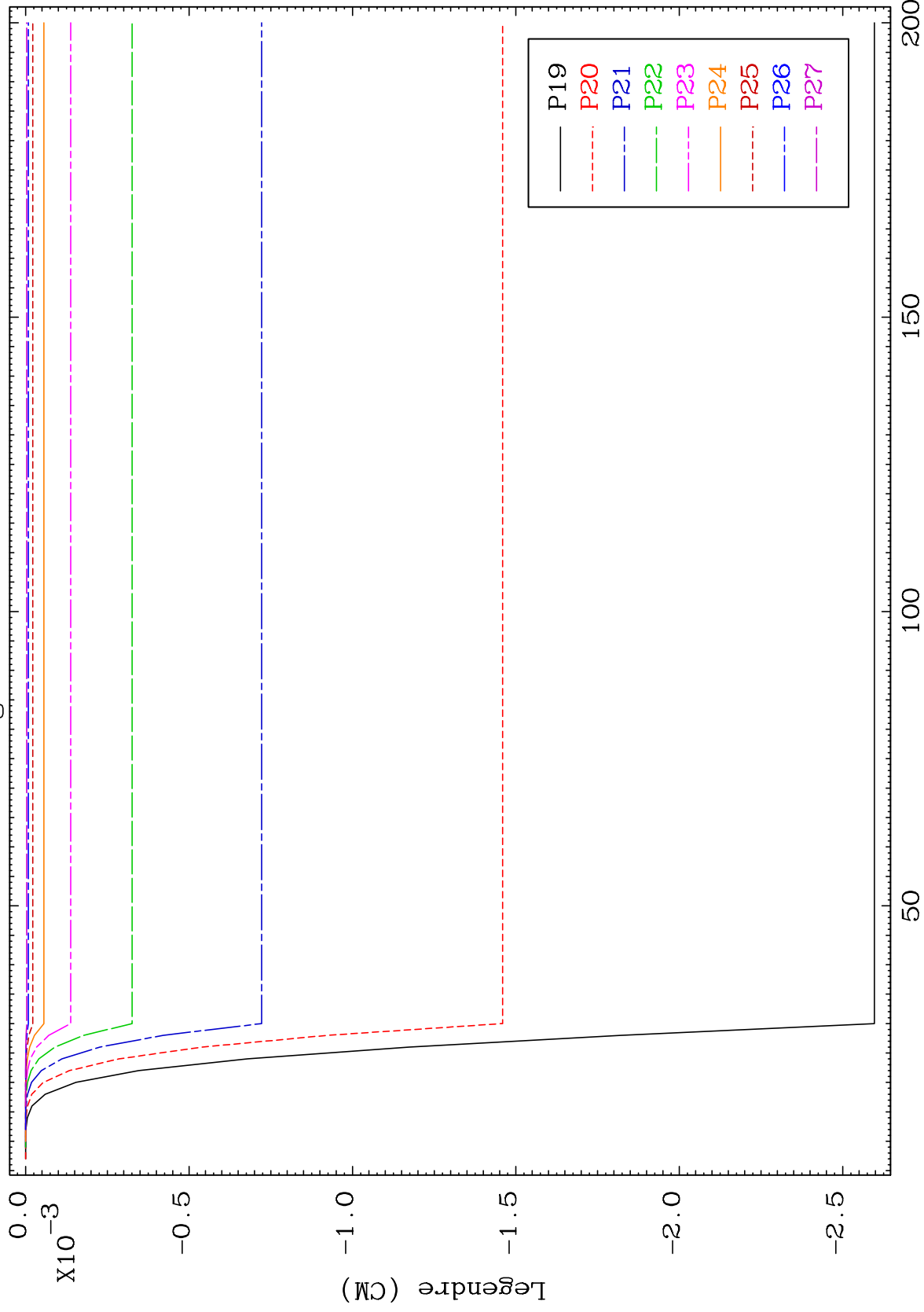
Incident Energy (MeV)

67

MAT 4446

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

44-Ru-103



68

Incident Energy (MeV)

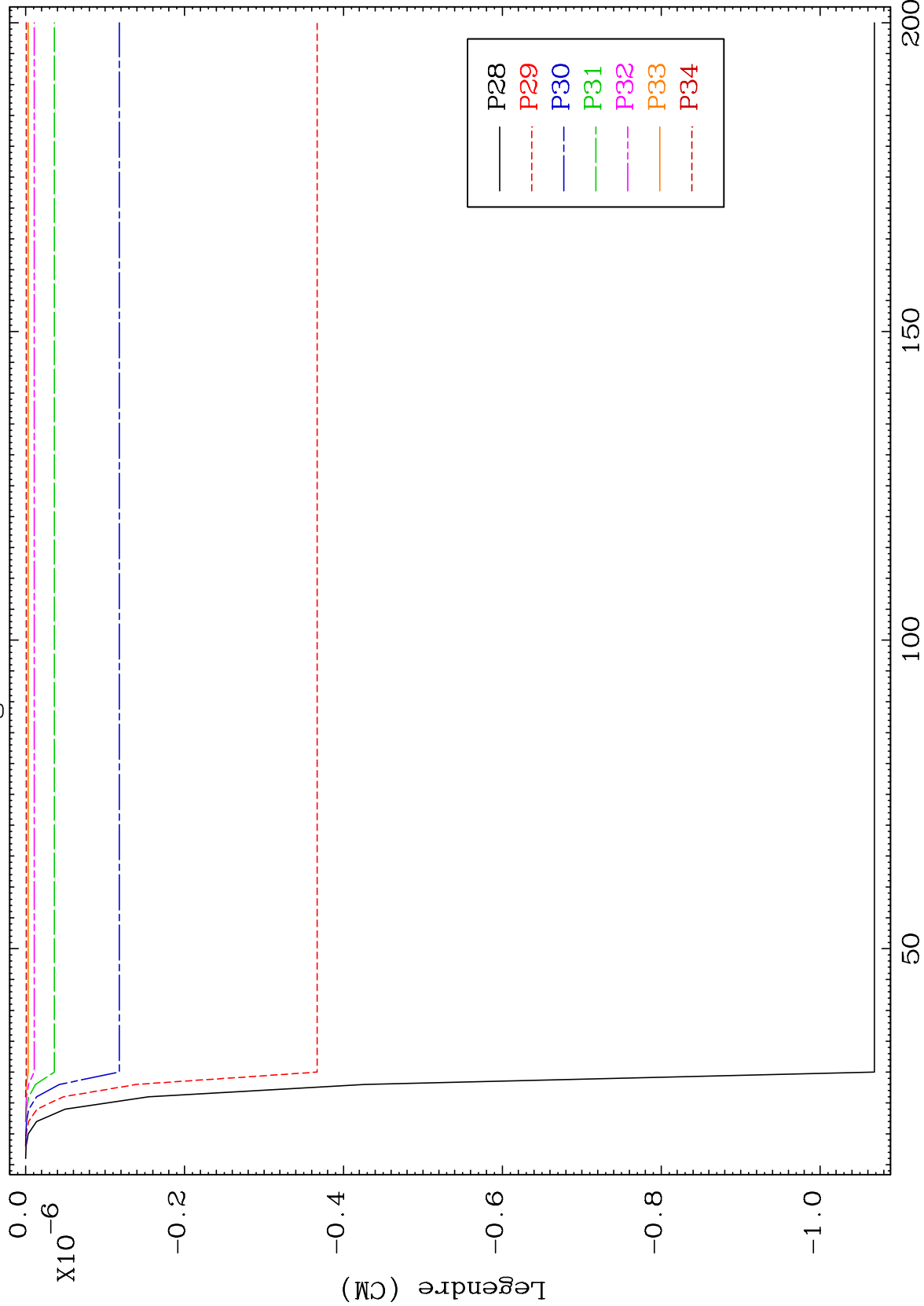
44-Ru-103

MAT 4446

MT= 66 (n,n') Level

44-Ru-103

Legendre Coefficients



69

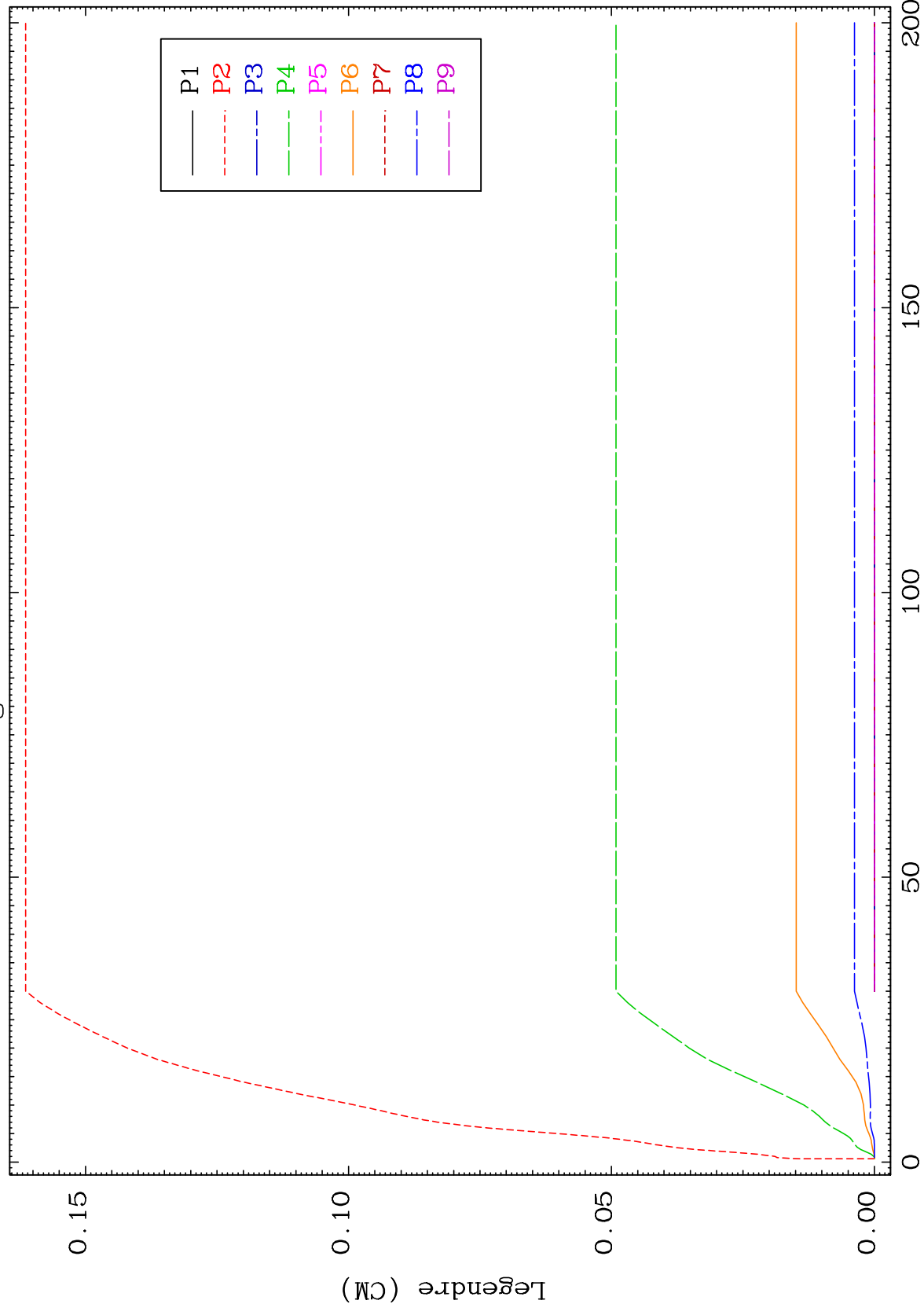
Incident Energy (MeV)

44-Ru-103

MAT 4446

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

44-Ru-103



44-Ru-103

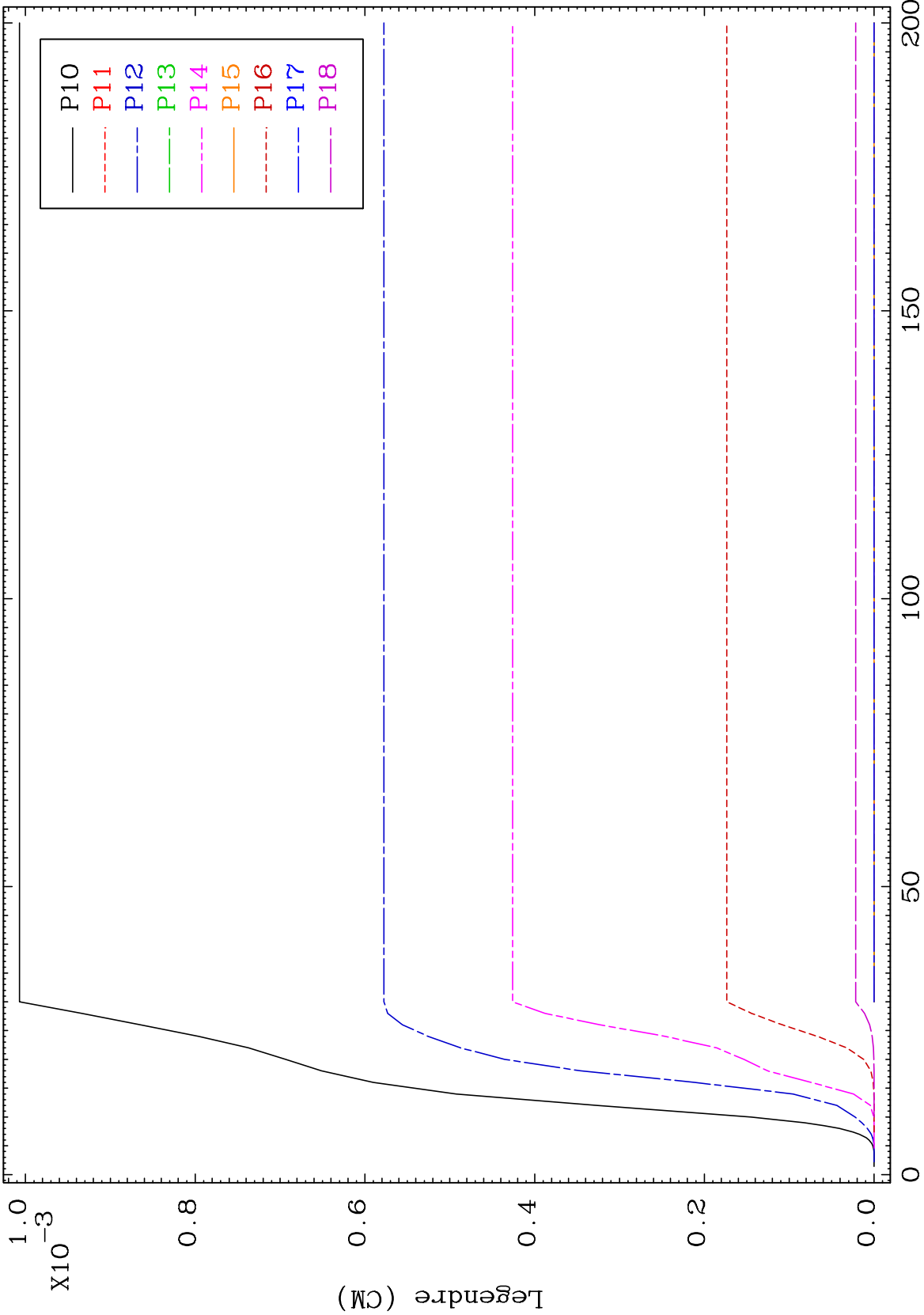
Incident Energy (MeV)

70

MAT 4446

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

44-Ru-103



71

Incident Energy (MeV)

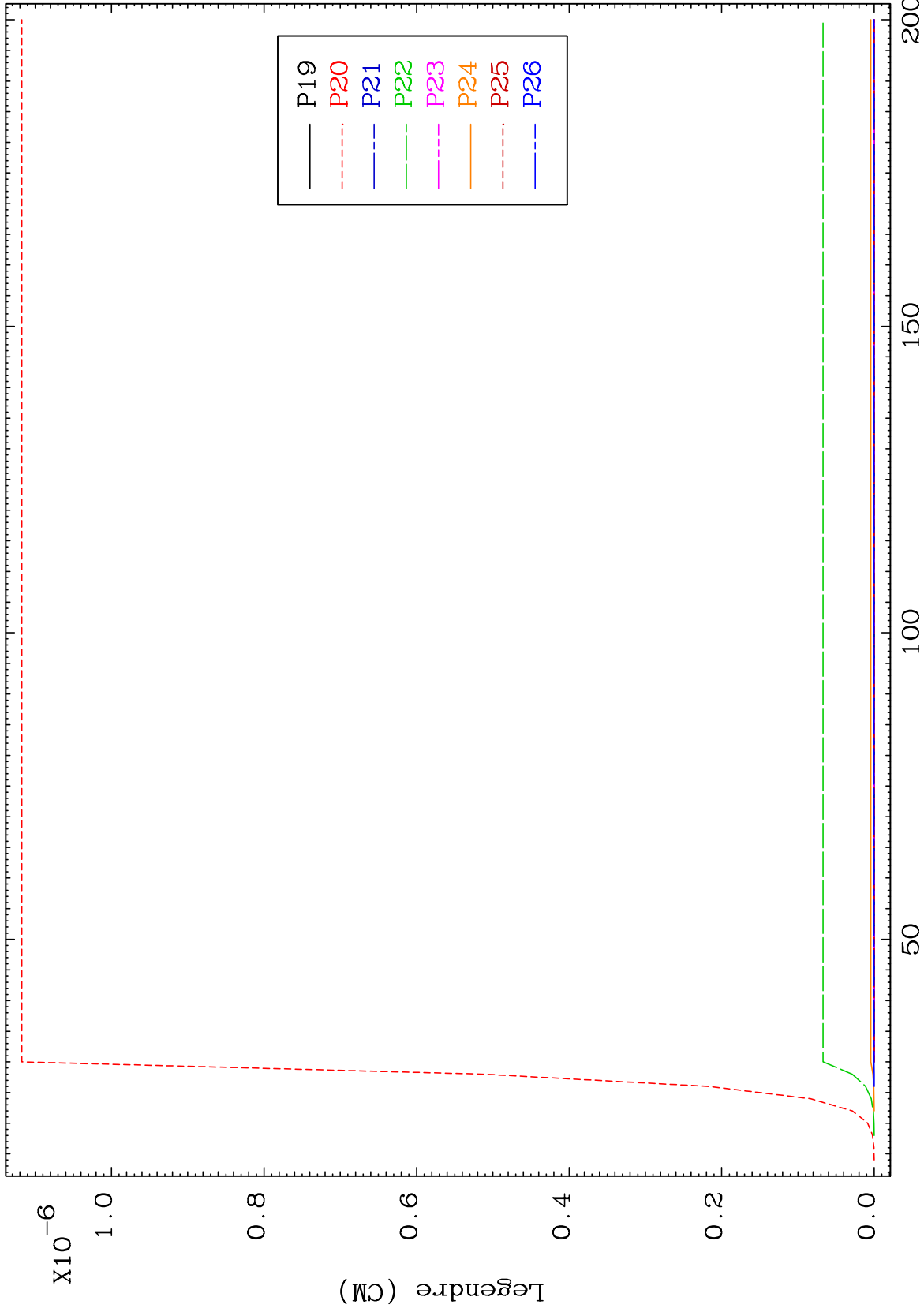
44-Ru-103



MAT 4446

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

44-Ru-103



72

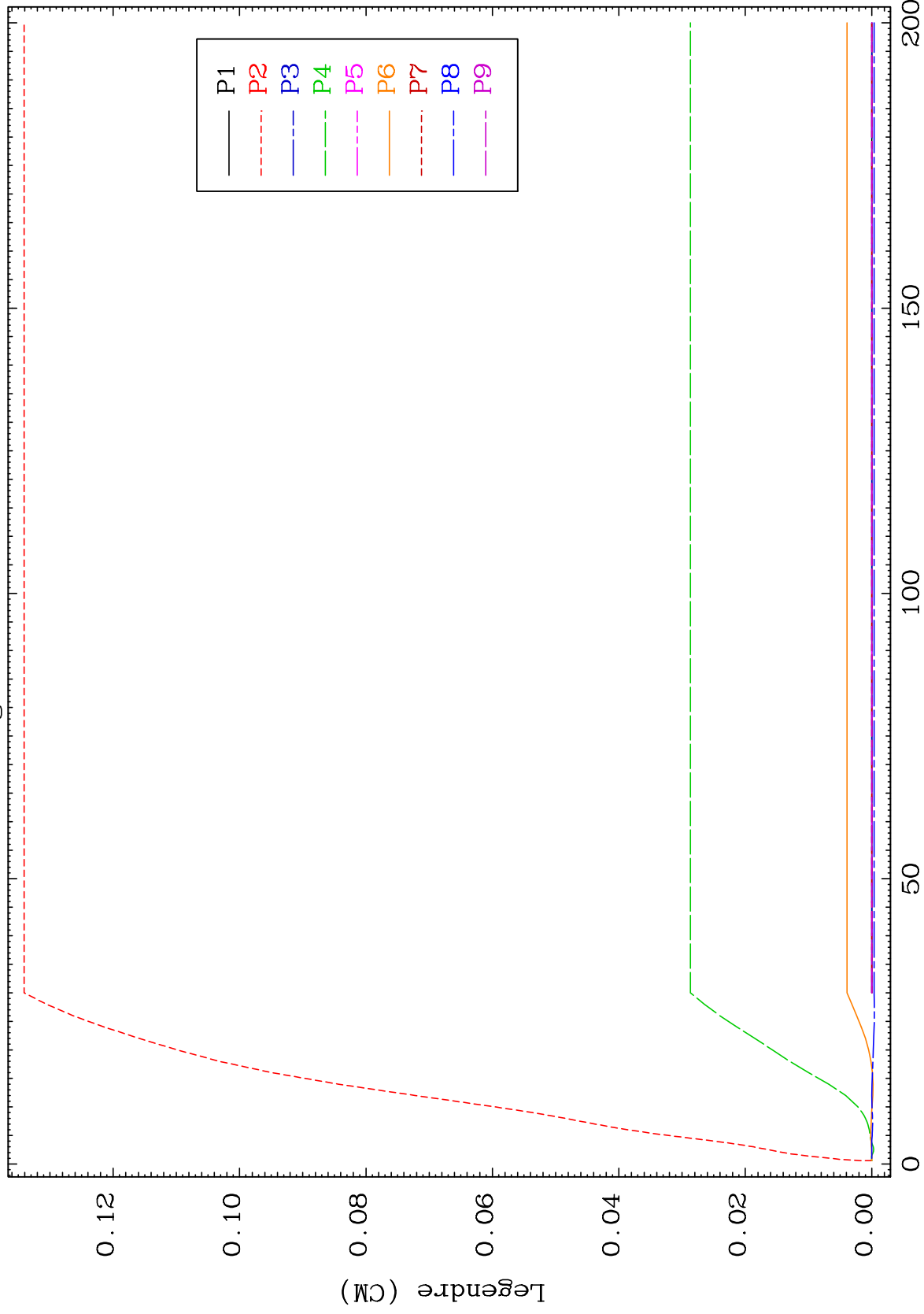
Incident Energy (MeV)

44-Ru-103

MAT 4446

MT= 68 (n,n') Level  
Legendre Coefficients

44-Ru-103



73

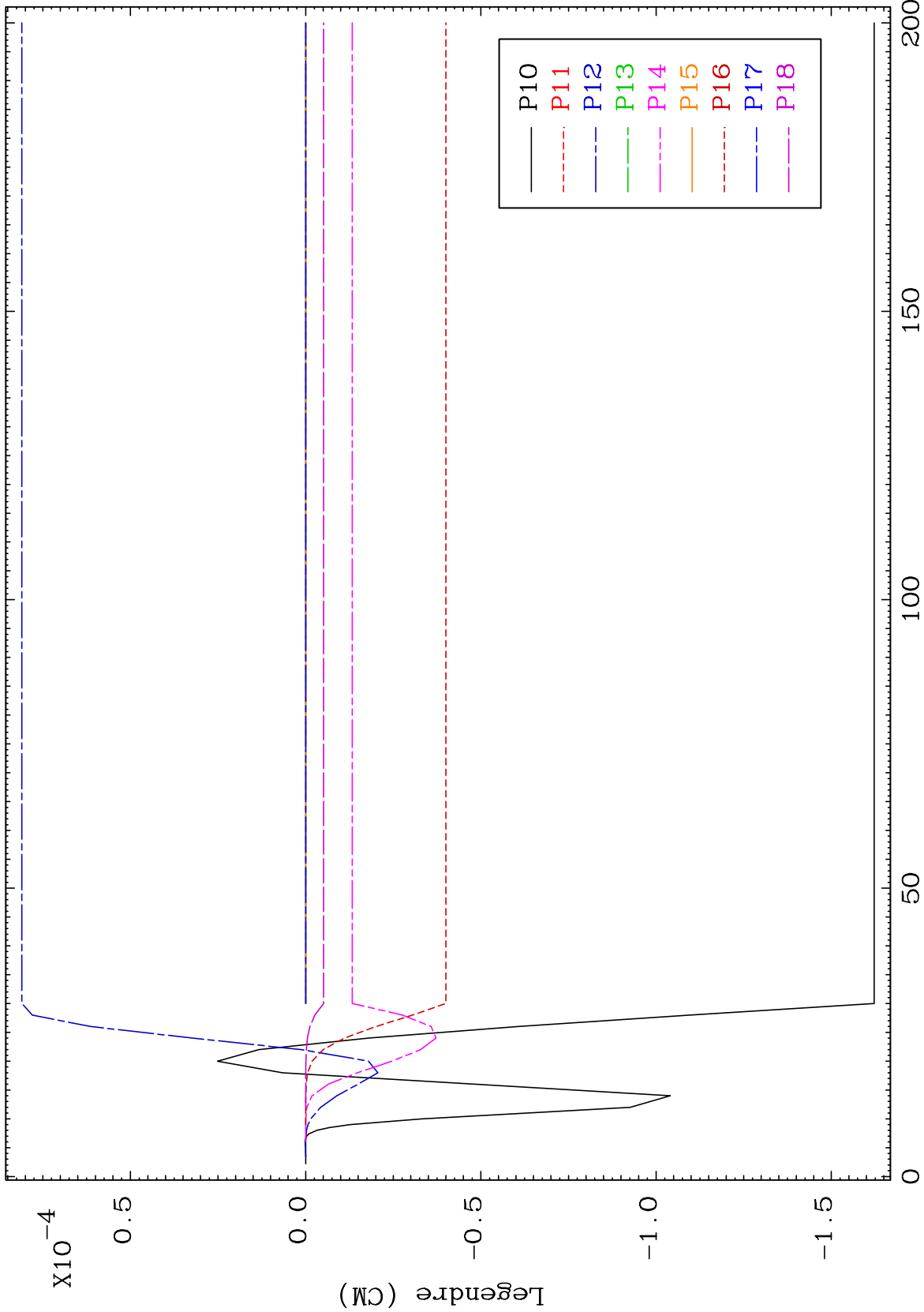
Incident Energy (MeV)

44-Ru-103

MAT 4446

MT= 68 (n,n') Level  
Legendre Coefficients

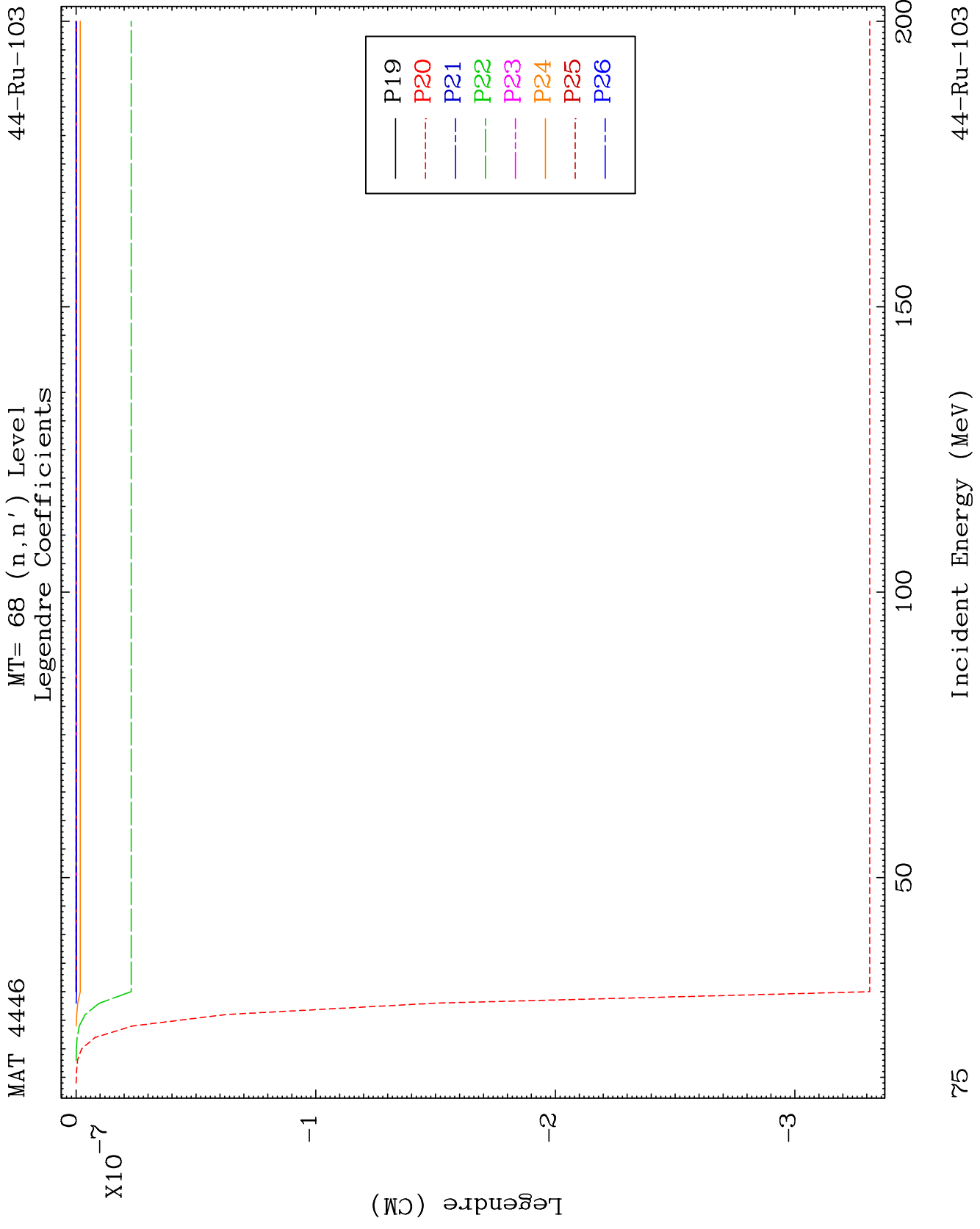
44-Ru-103



74

Incident Energy (MeV)

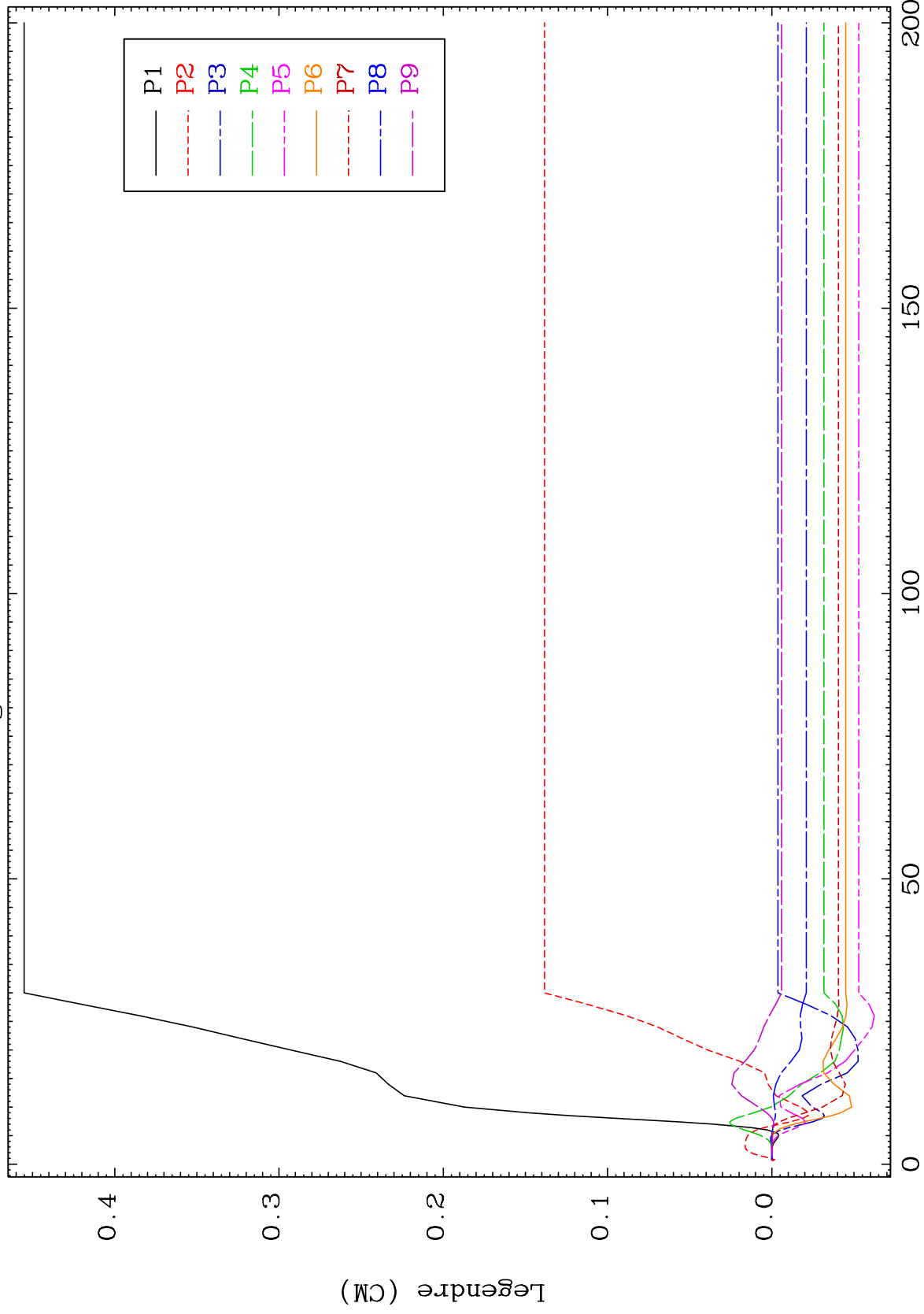
44-Ru-103



MAT 4446

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

44-Ru-103



76

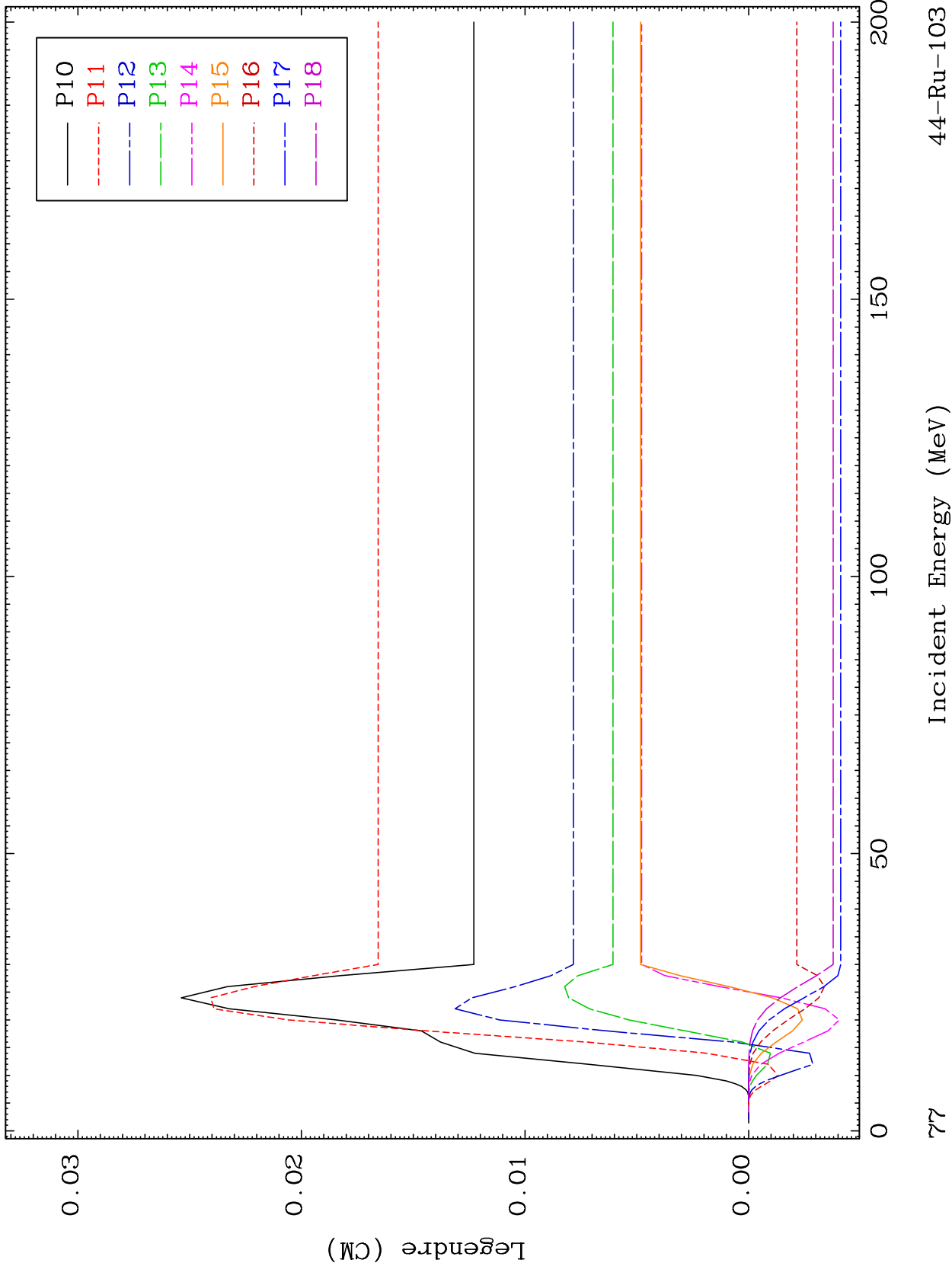
Incident Energy (MeV)

44-Ru-103

MAT 4446

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

44-Ru-103



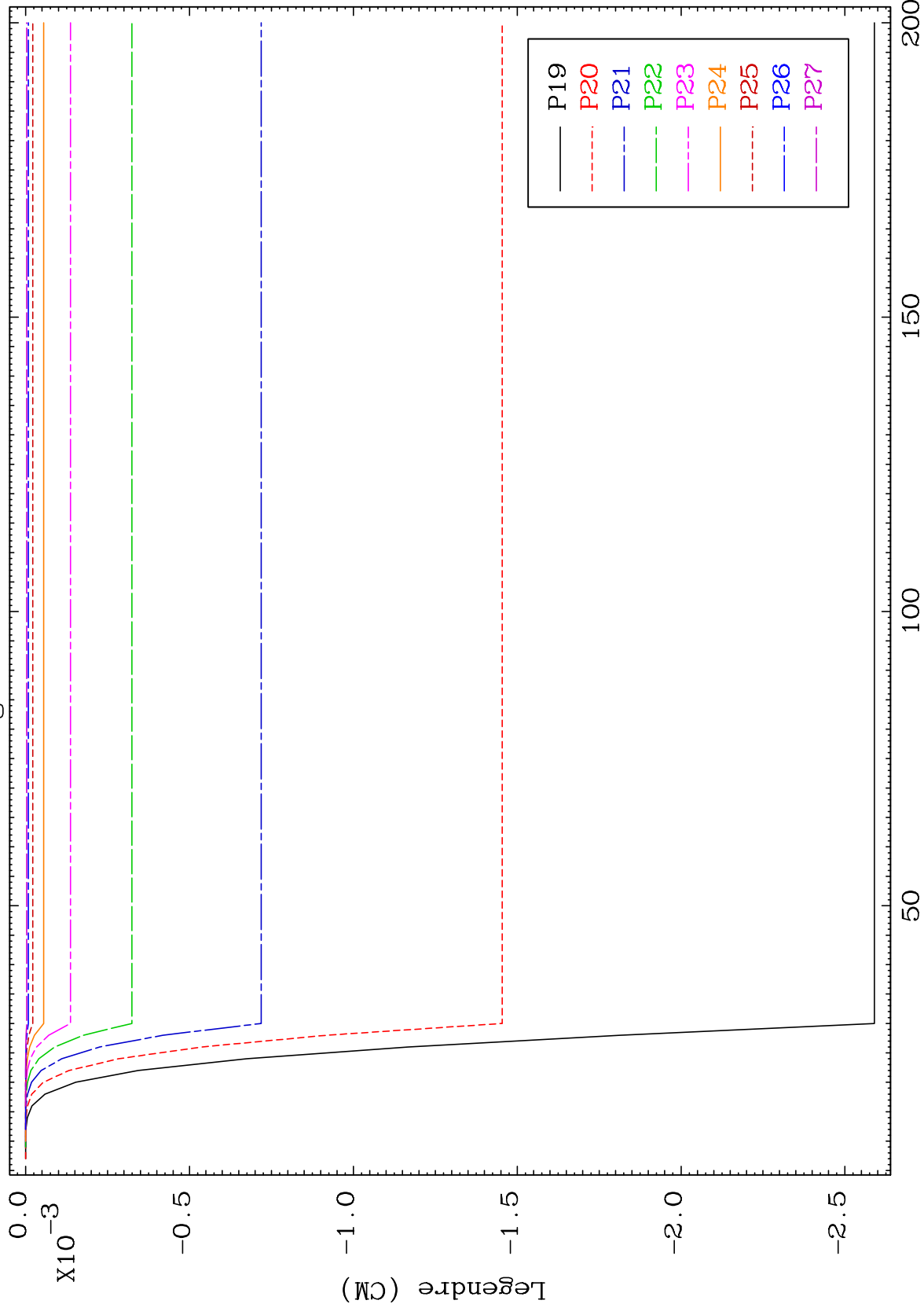
77

44-Ru-103

MAT 4446

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

44-Ru-103



78

Incident Energy (MeV)

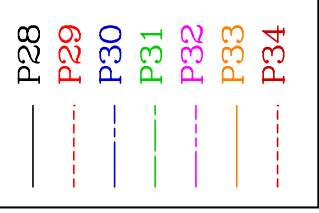
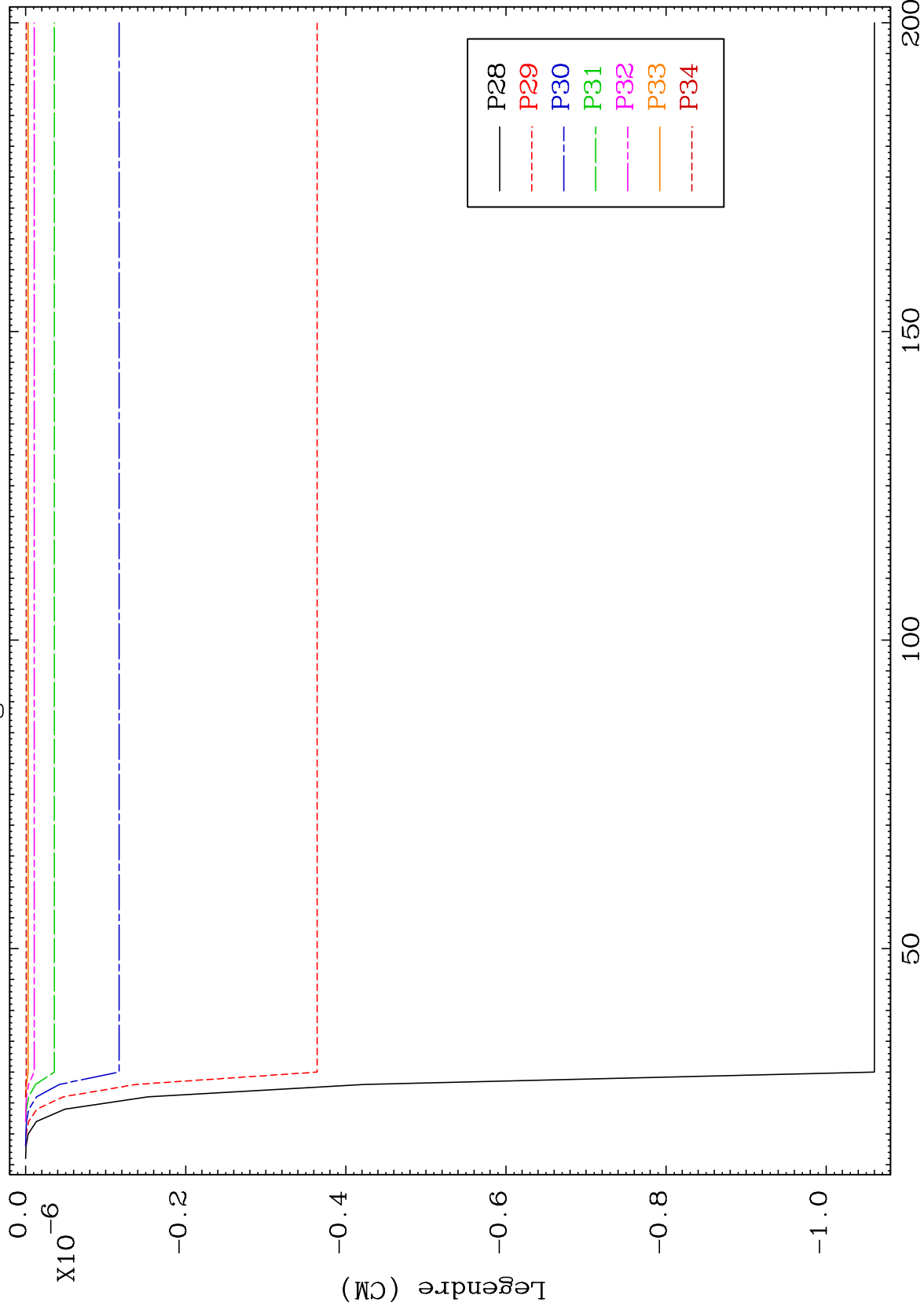
44-Ru-103

MAT 4446

MT= 69 (n,n') Level

44-Ru-103

Legendre Coefficients



79

Incident Energy (MeV)

44-Ru-103

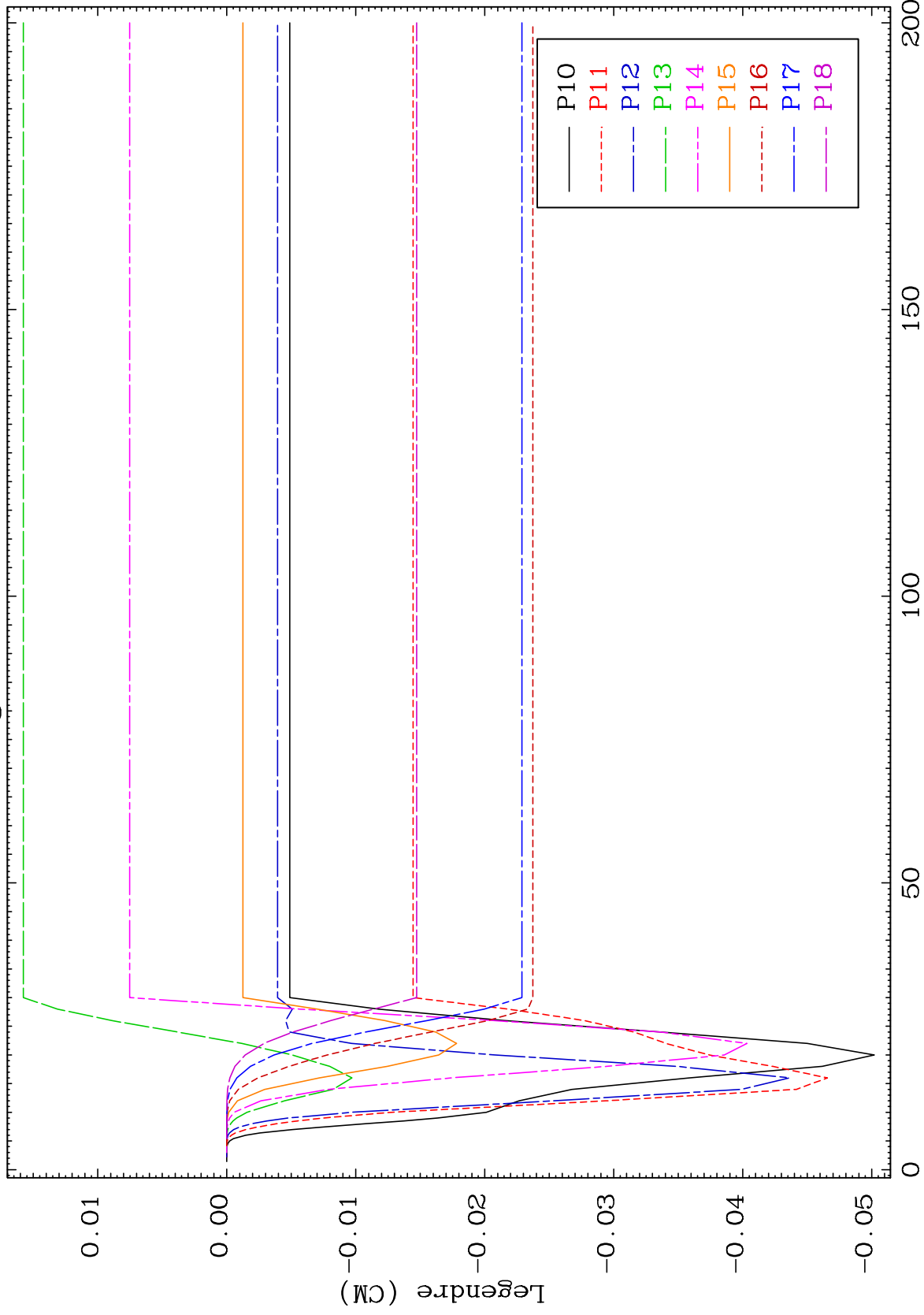




MAT 4446

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

44-Ru-103



81

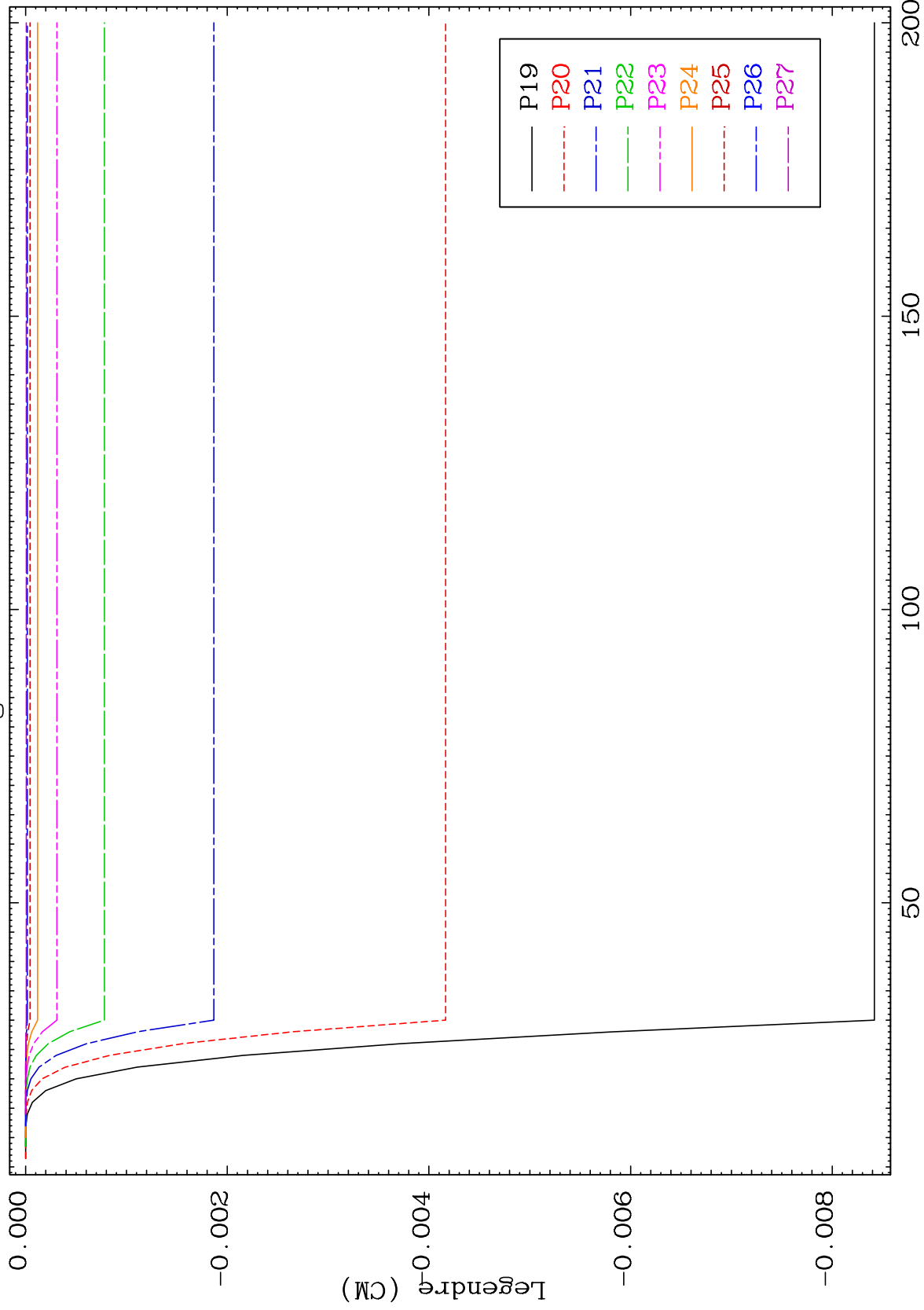
Incident Energy (MeV)

44-Ru-103

MAT 4446

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

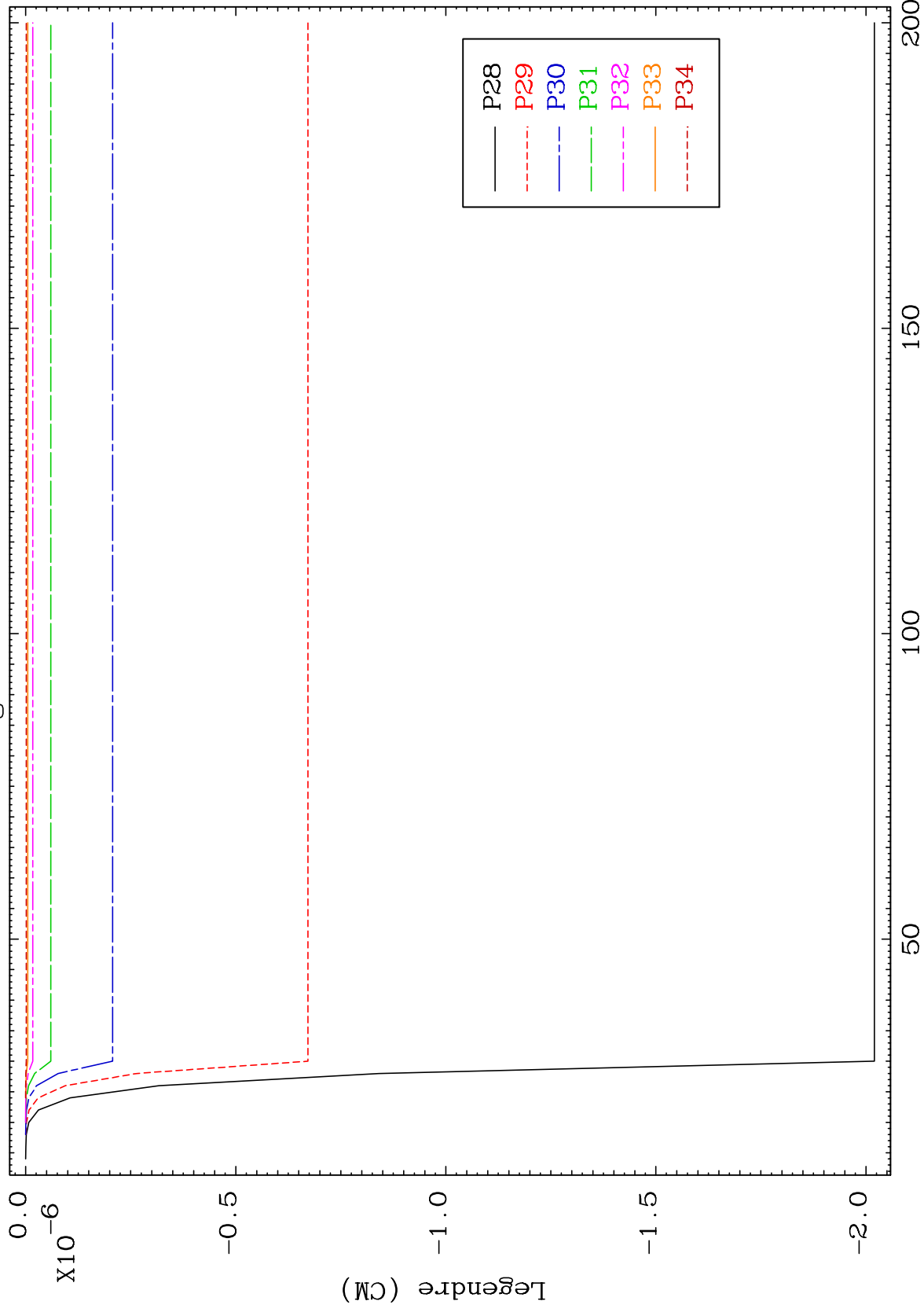
44-Ru-103



MAT 4446

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

44-Ru-103



83

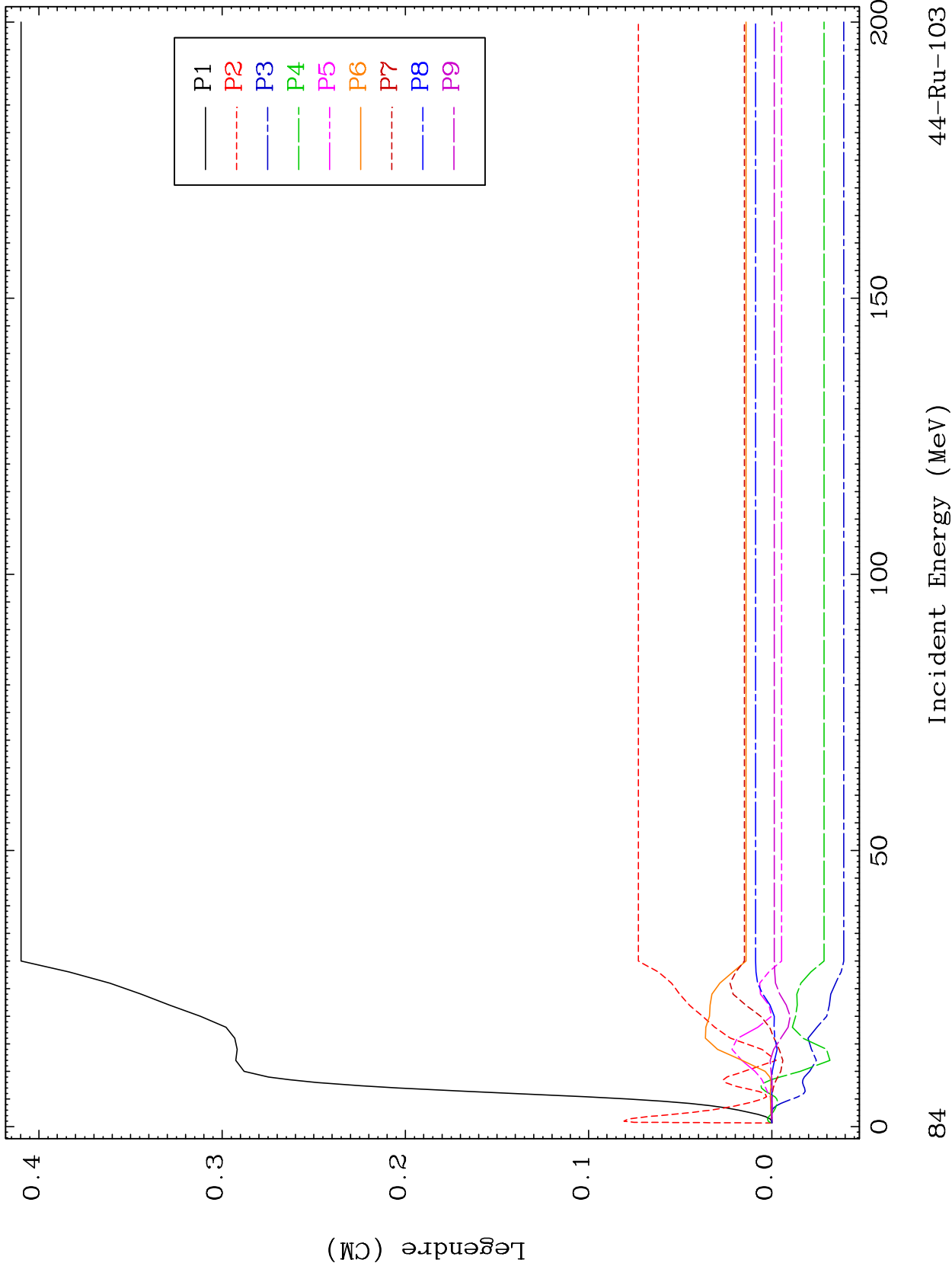
Incident Energy (MeV)

44-Ru-103

MAT 4446

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

44-Ru-103



44-Ru-103

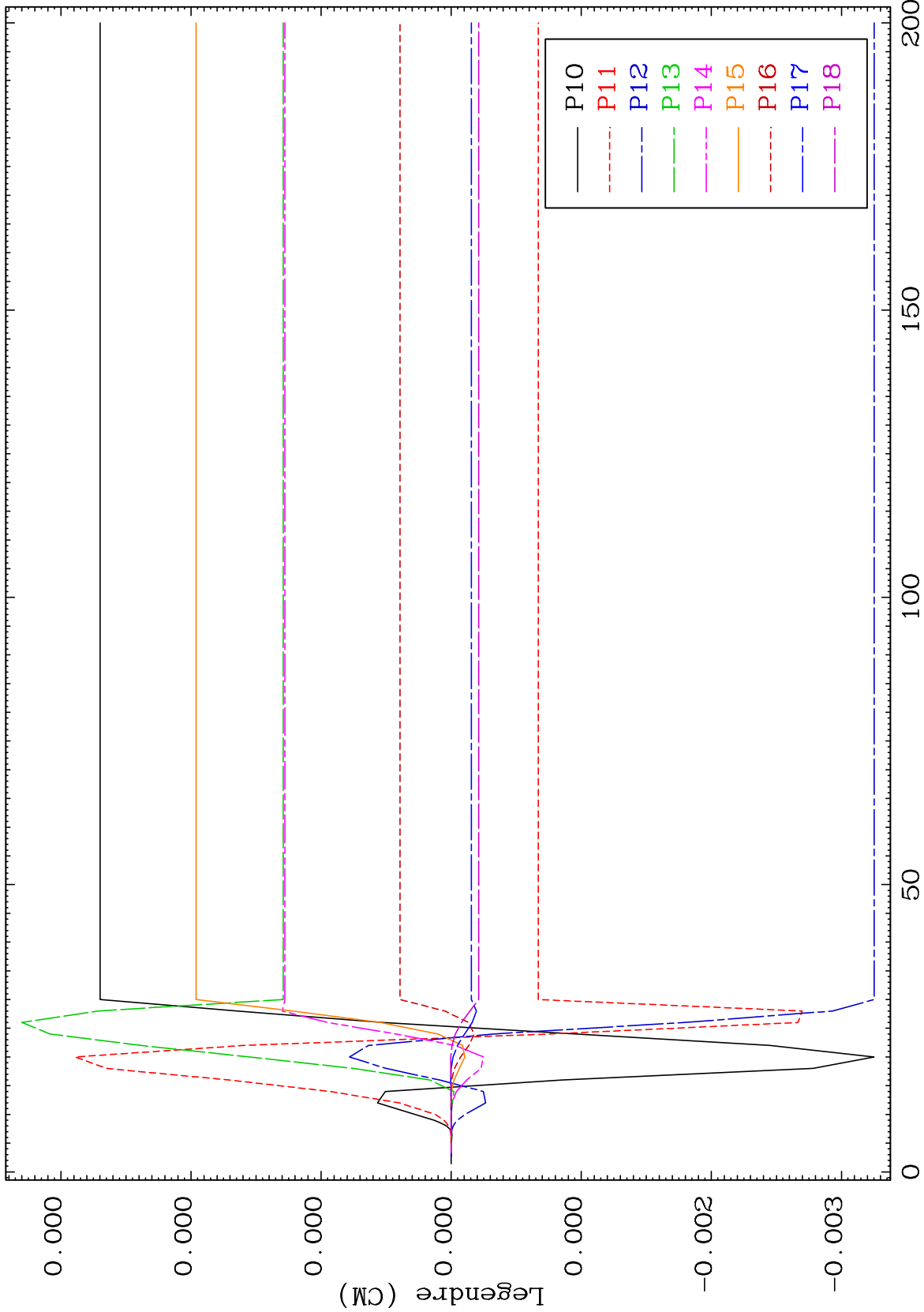
Incident Energy (MeV)

84

MAT 4446

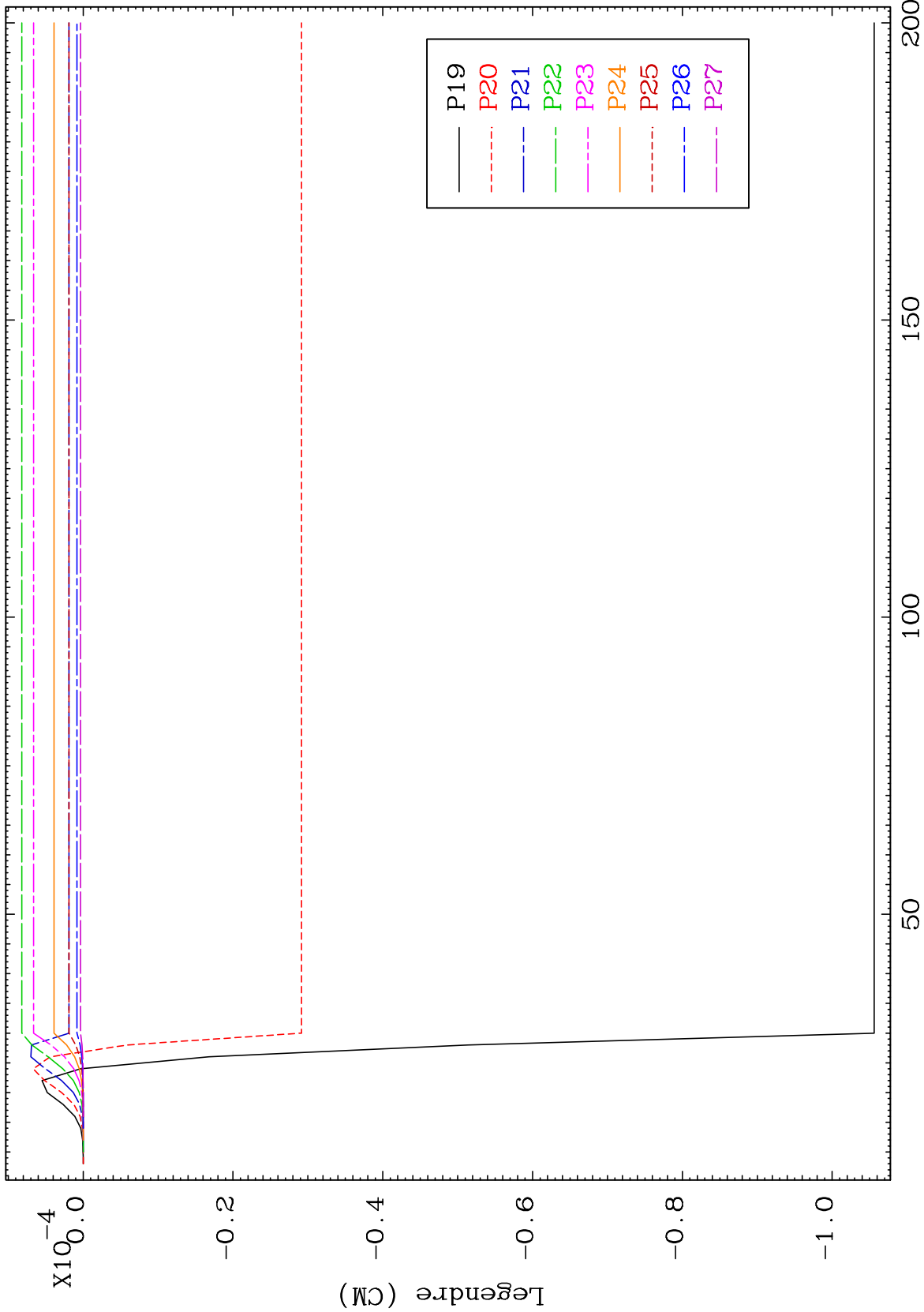
MT= 71 (n,n') Level  
Legendre Coefficients

44-Ru-103



85

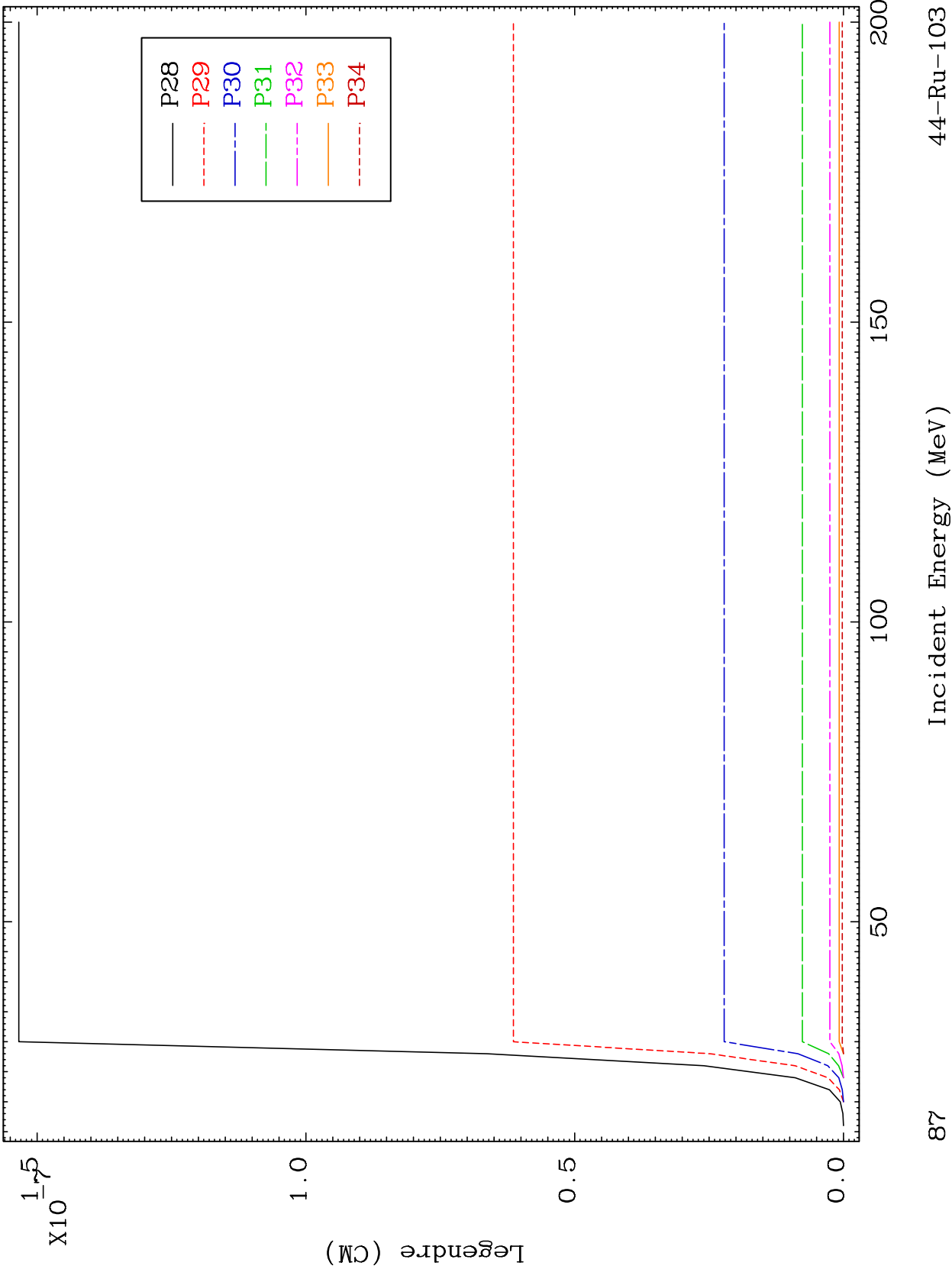
44-Ru-103



MAT 4446

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

44-Ru-103



87

Incident Energy (MeV)

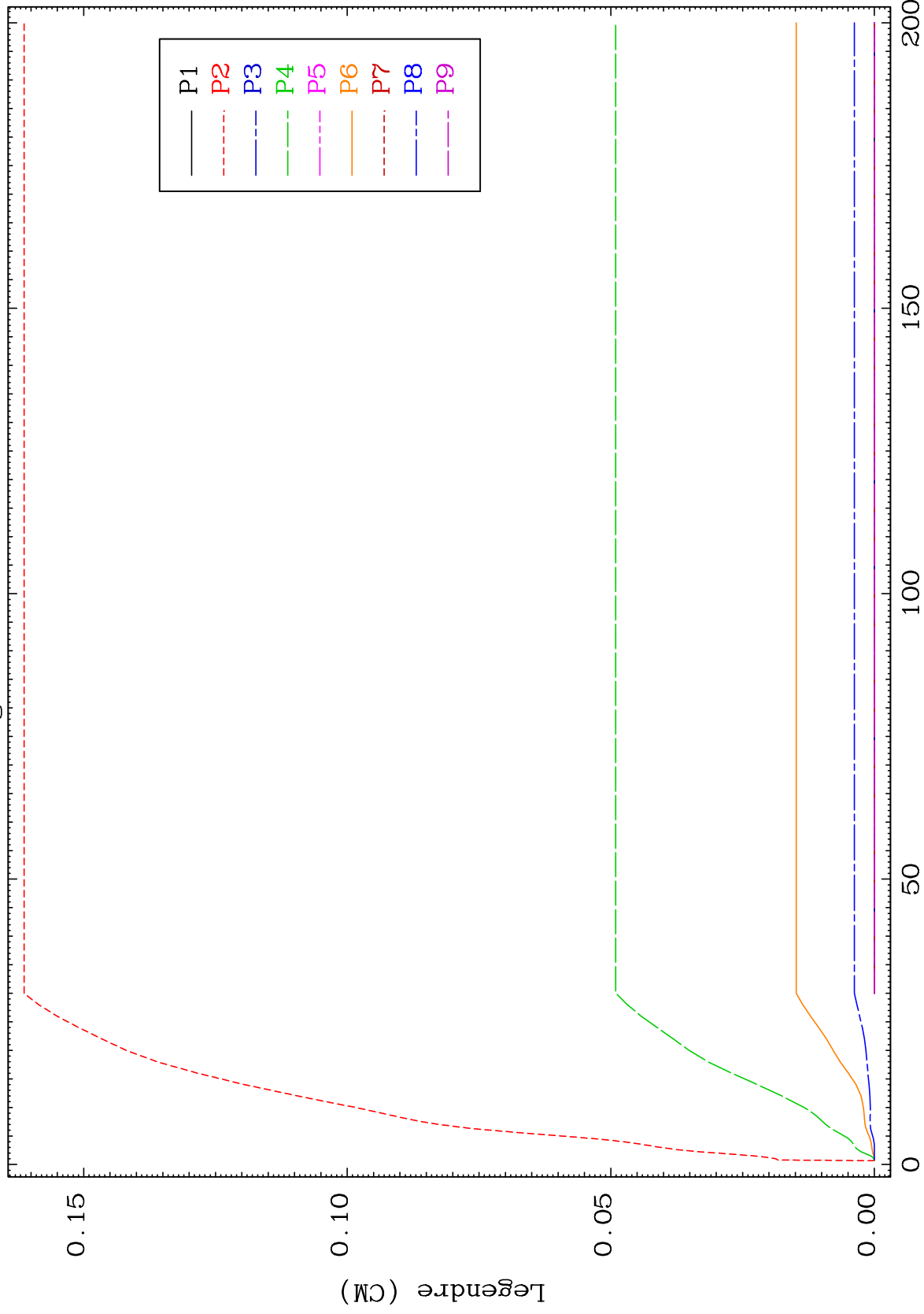
44-Ru-103



MAT 4446

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

44-Ru-103



88

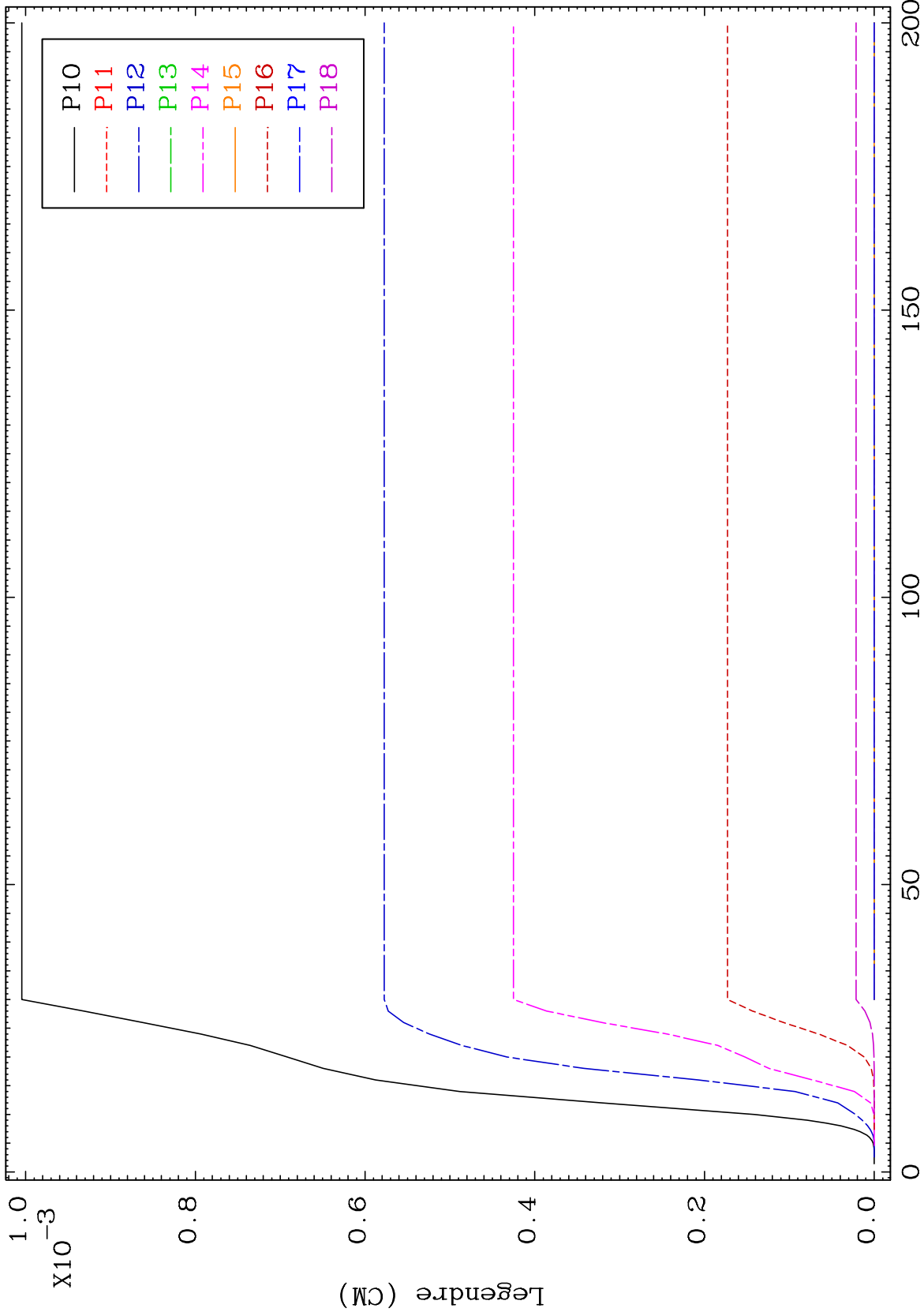
Incident Energy (MeV)

44-Ru-103

MAT 4446

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

44-Ru-103



89

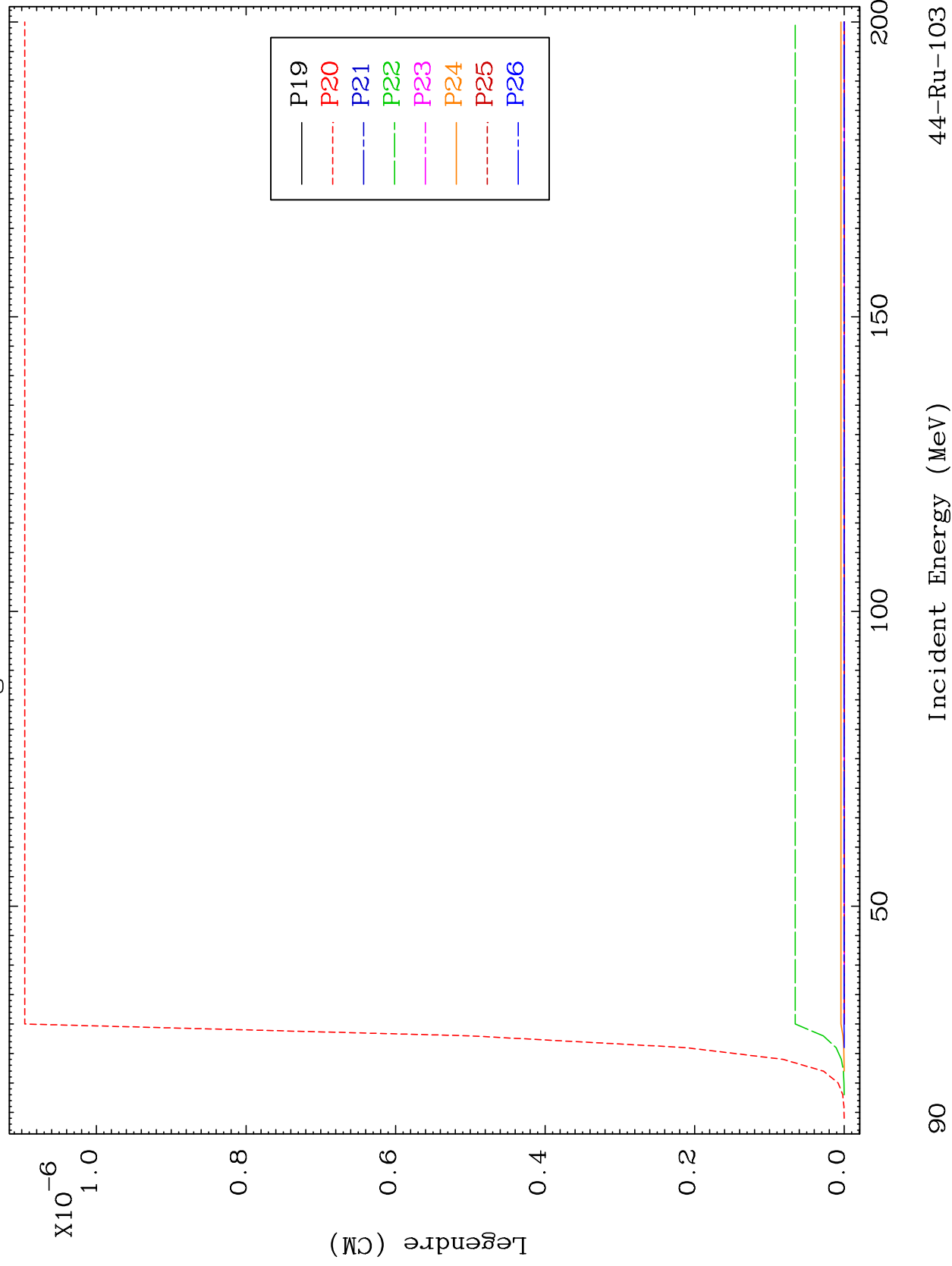
Incident Energy (MeV)

44-Ru-103

MAT 4446

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

44-Ru-103

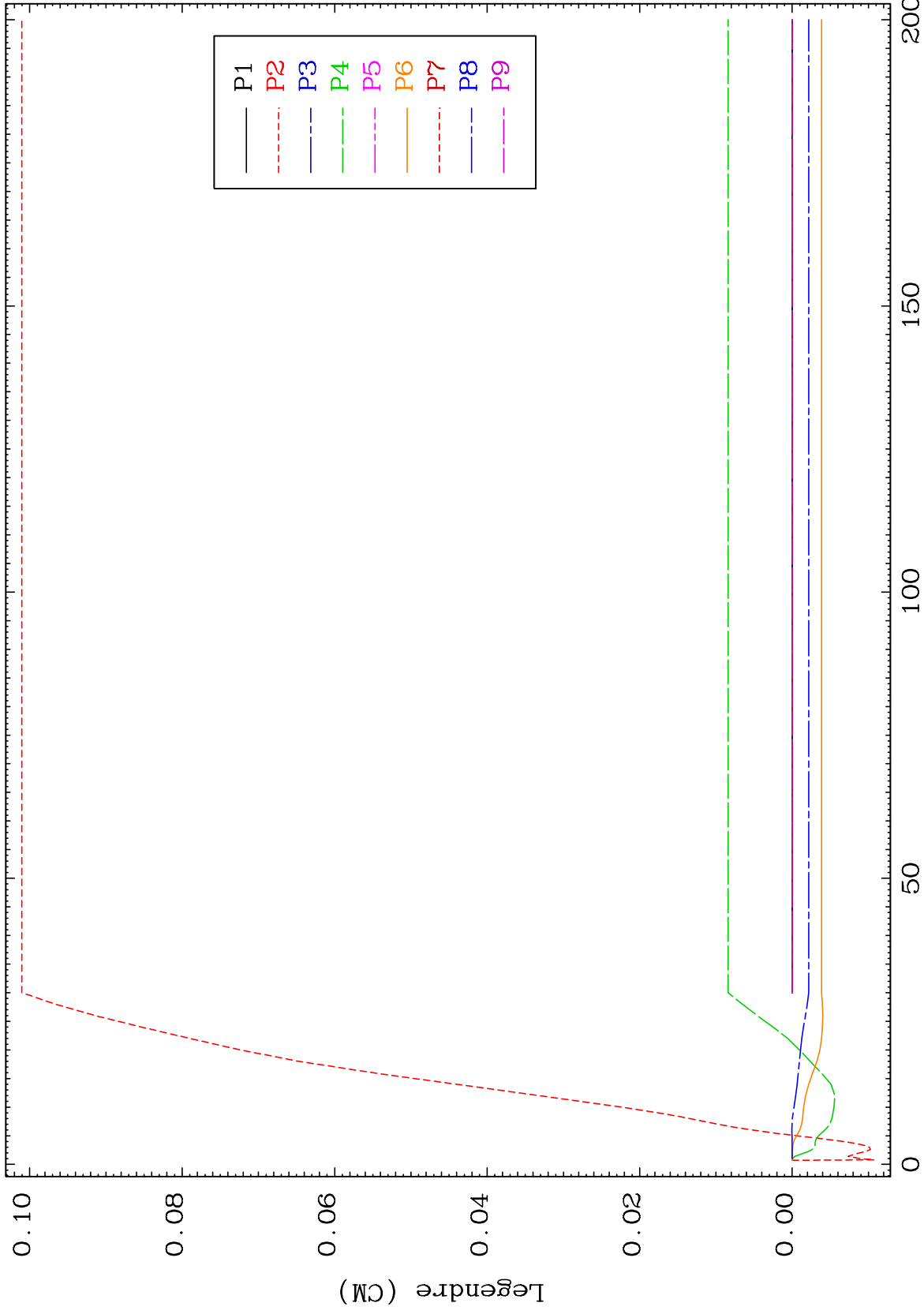


44-Ru-103

MAT 4446

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

44-Ru-103



91

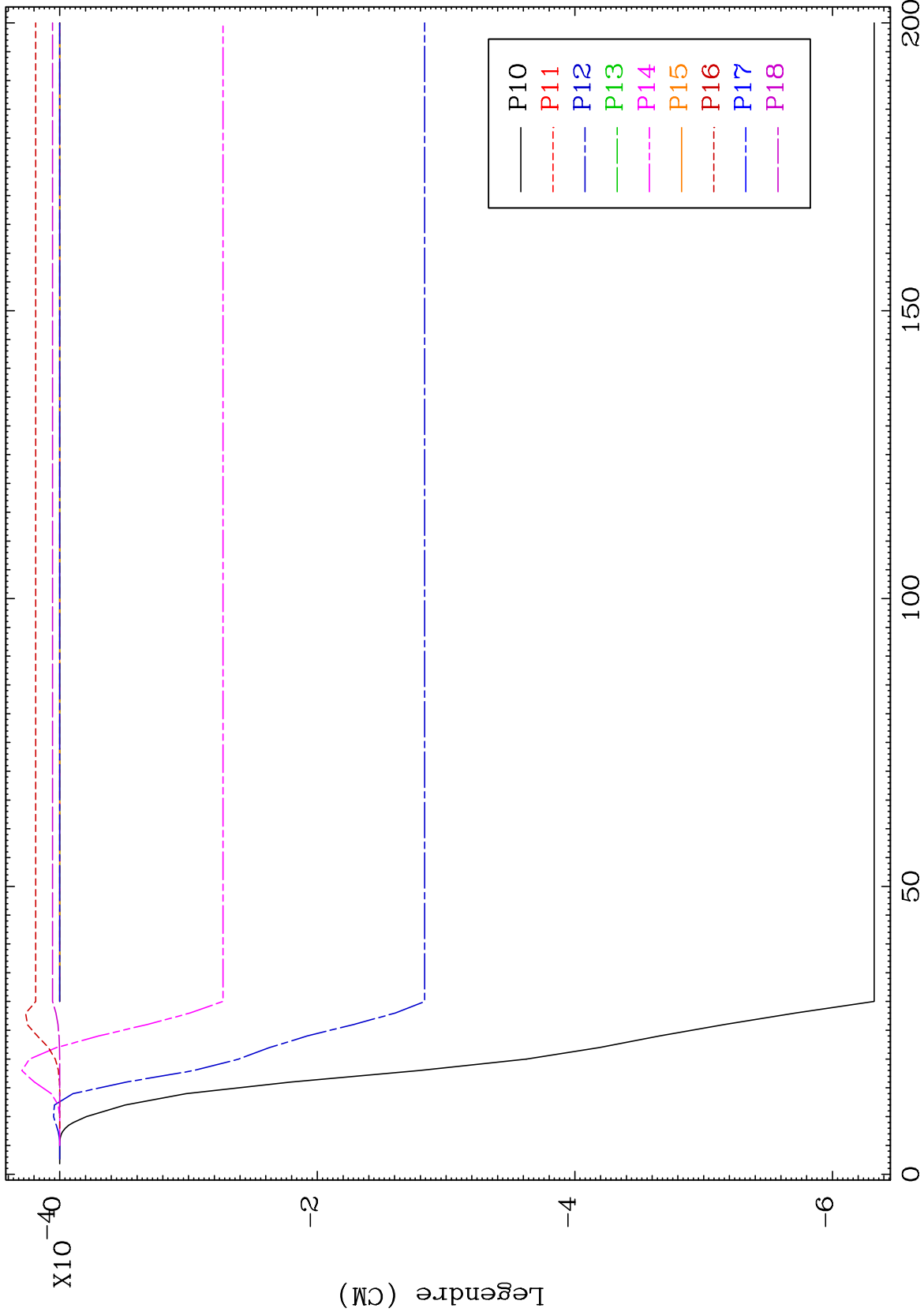
Incident Energy (MeV)

44-Ru-103

MAT 4446

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

44-Ru-103



92

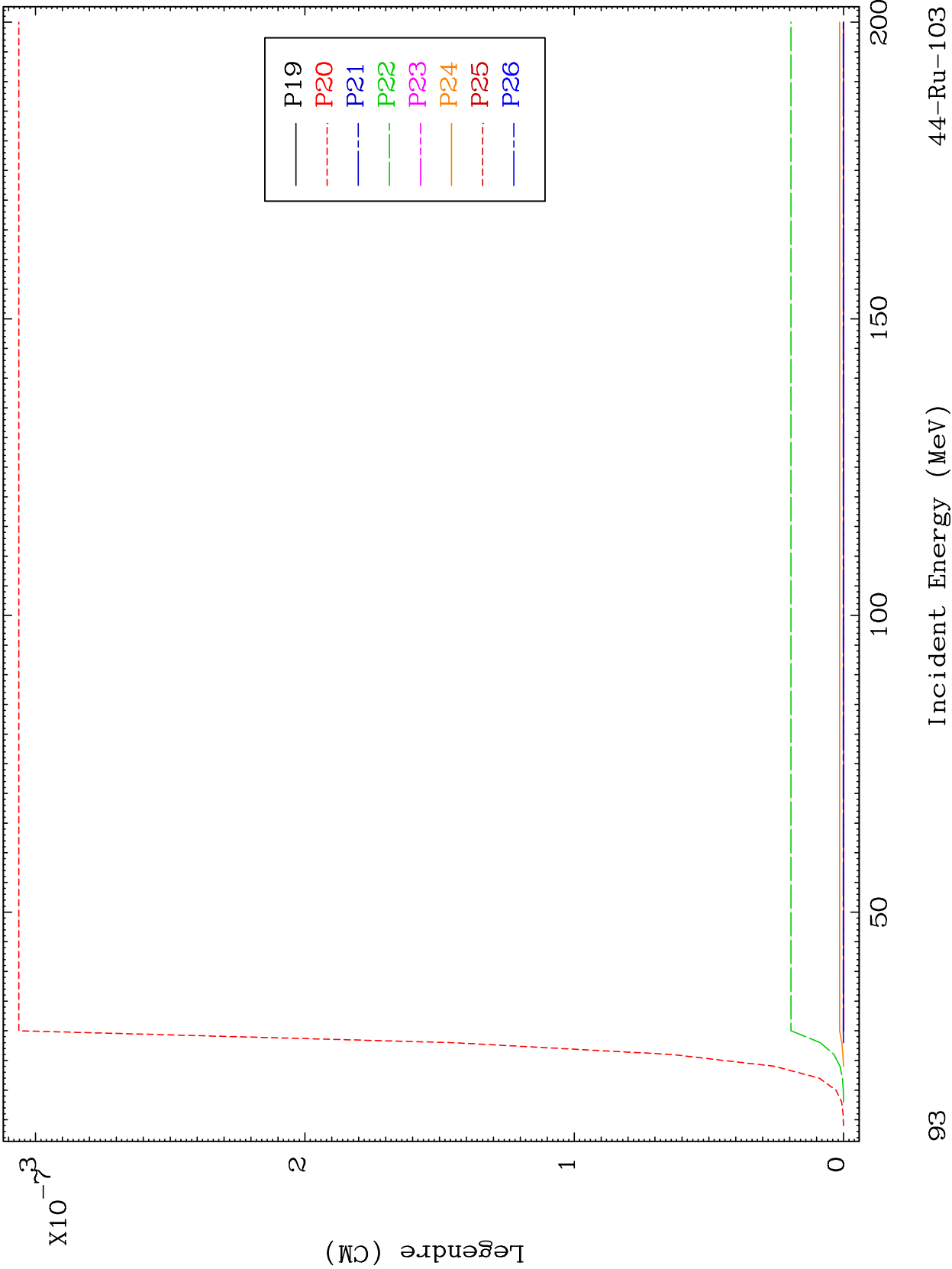
Incident Energy (MeV)

44-Ru-103

MAT 4446

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

44-Ru-103



93

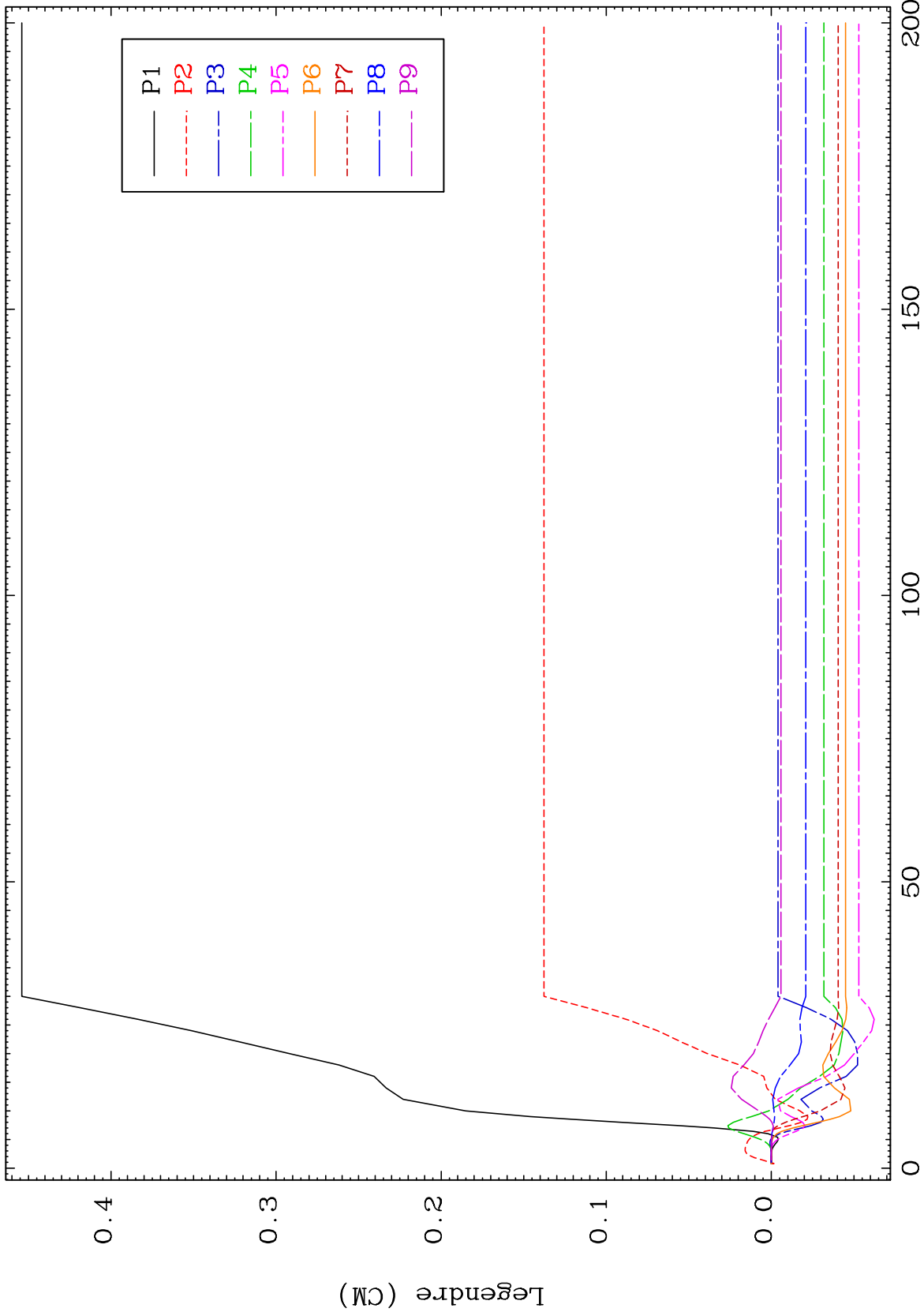
Incident Energy (MeV)

44-Ru-103

MAT 4446

MT= 74 (n,n') Level  
Legendre Coefficients

44-Ru-103



94

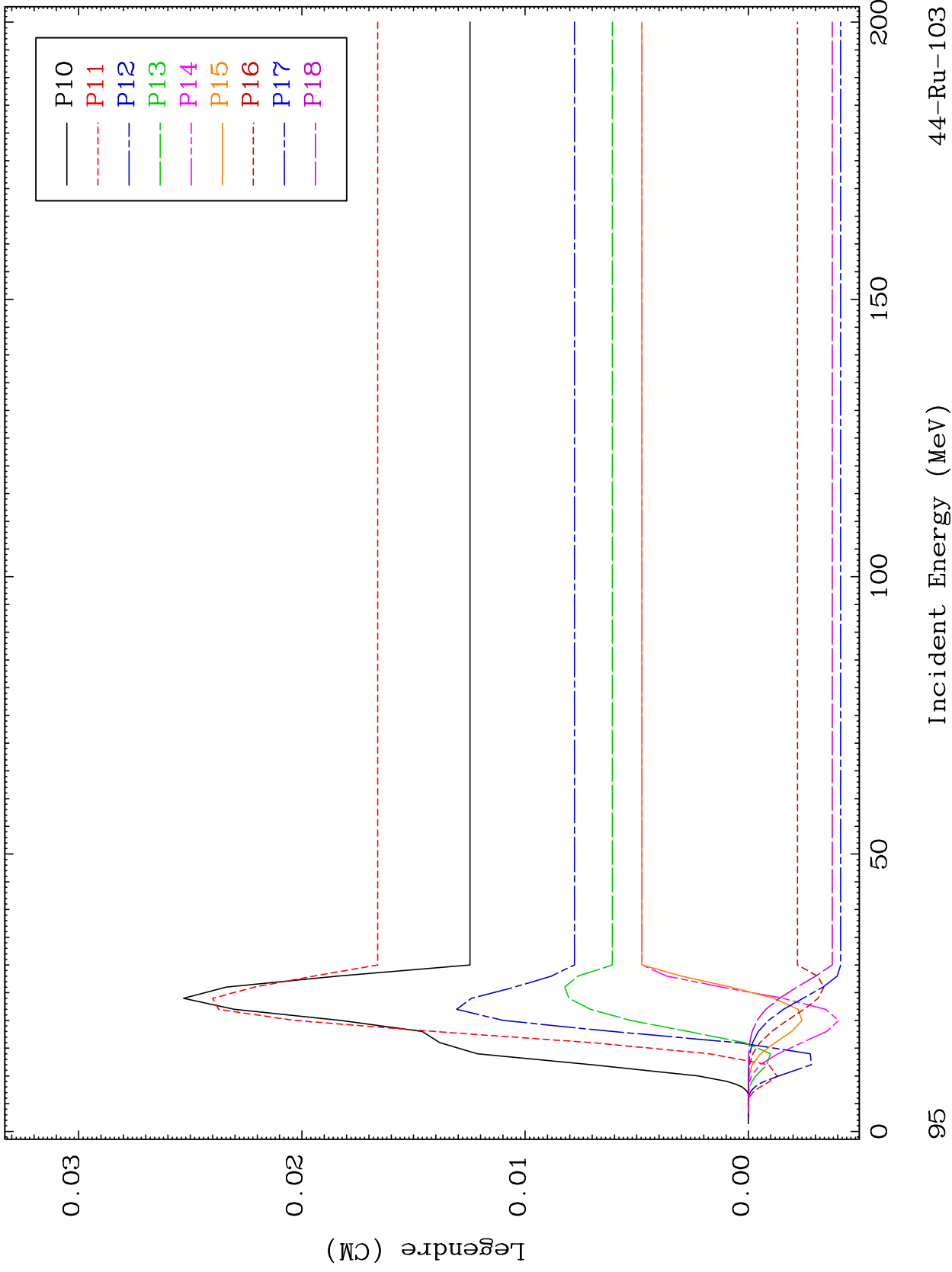
Incident Energy (MeV)

44-Ru-103

MAT 4446

MT= 74 (n,n') Level  
Legendre Coefficients

44-Ru-103



44-Ru-103

Incident Energy (MeV)

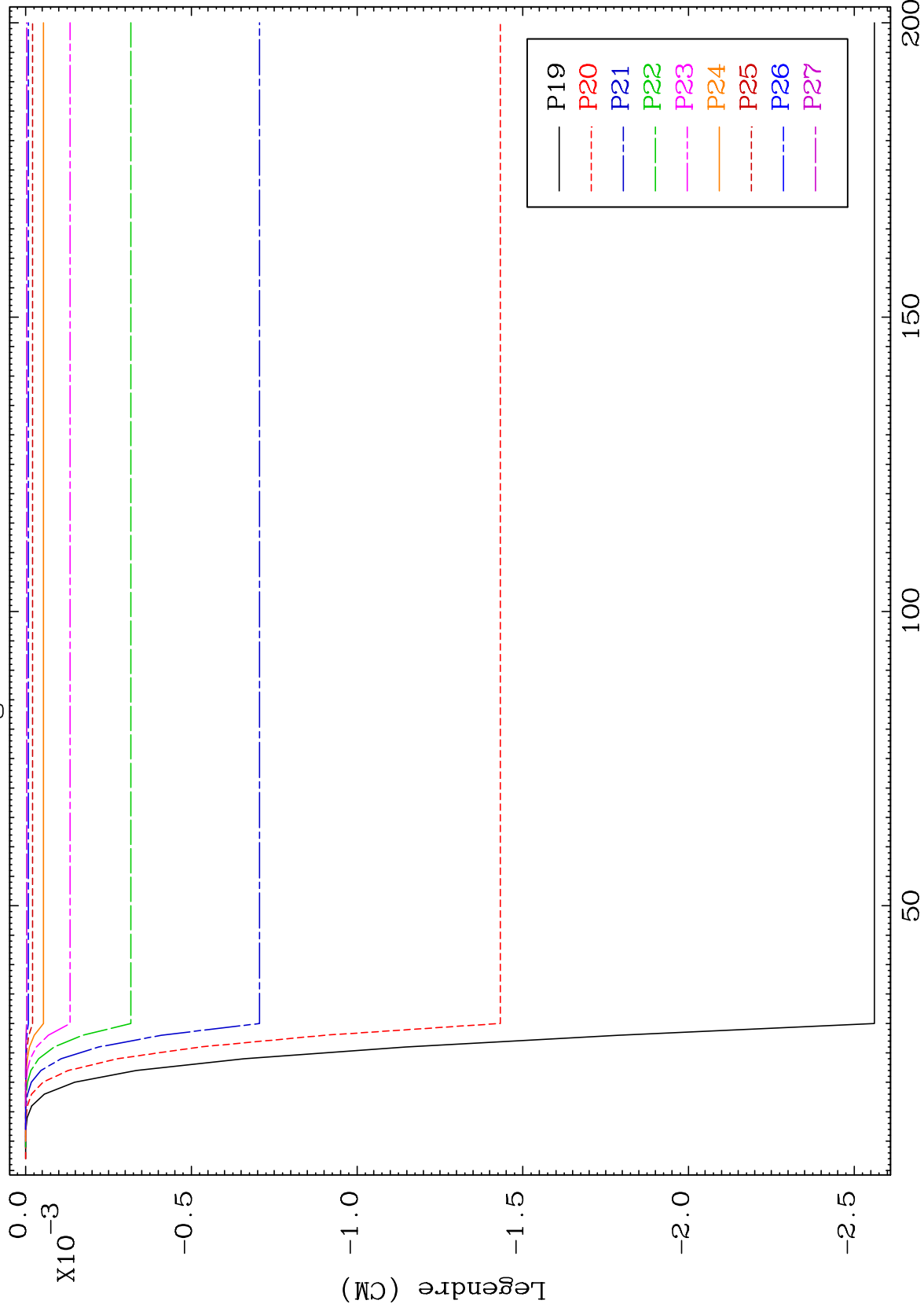
95



MAT 4446

MT= 74 (n,n') Level  
Legendre Coefficients

44-Ru-103



96

Incident Energy (MeV)

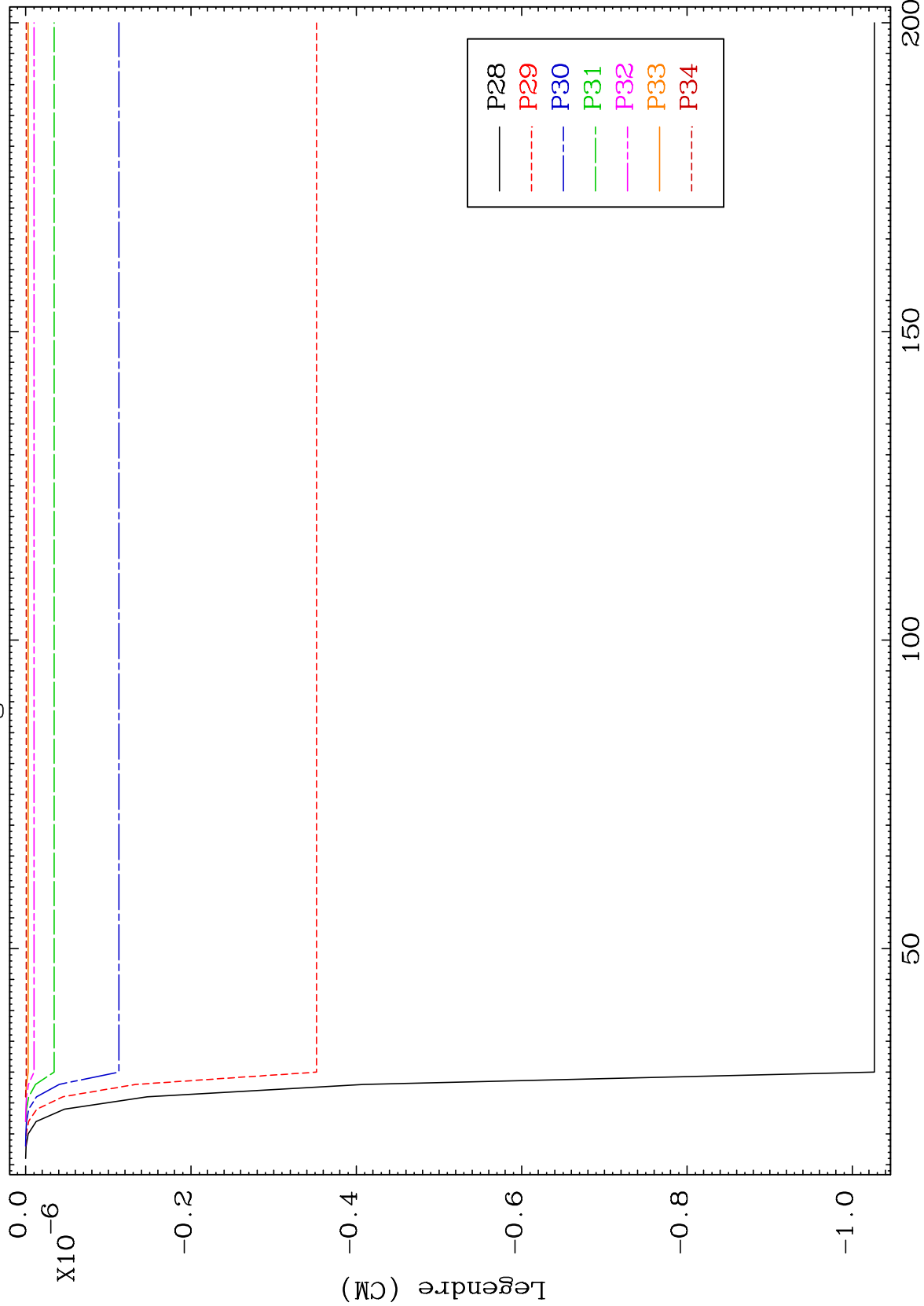
44-Ru-103

MAT 4446

MT= 74 (n,n') Level

44-Ru-103

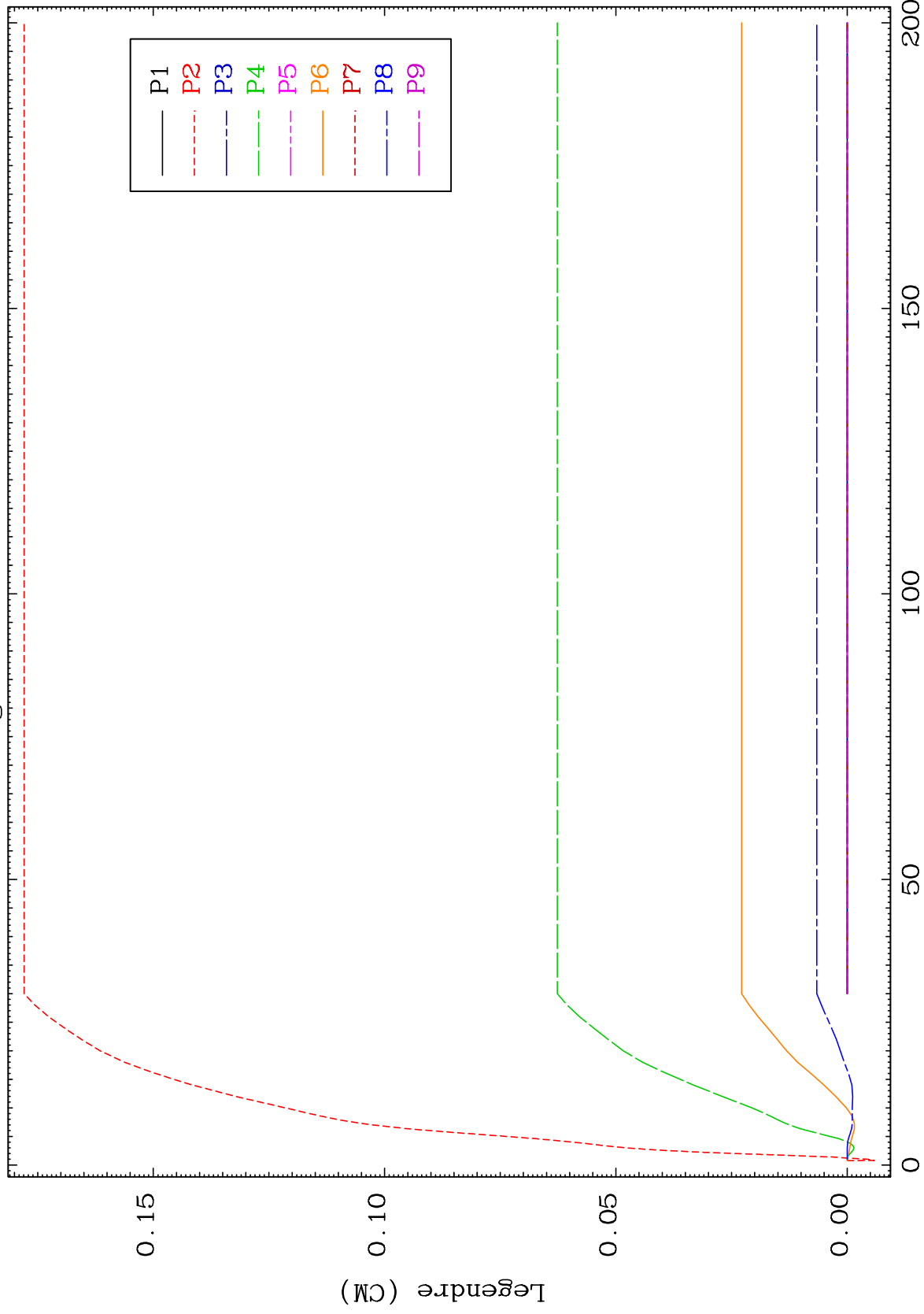
Legendre Coefficients



MAT 4446

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

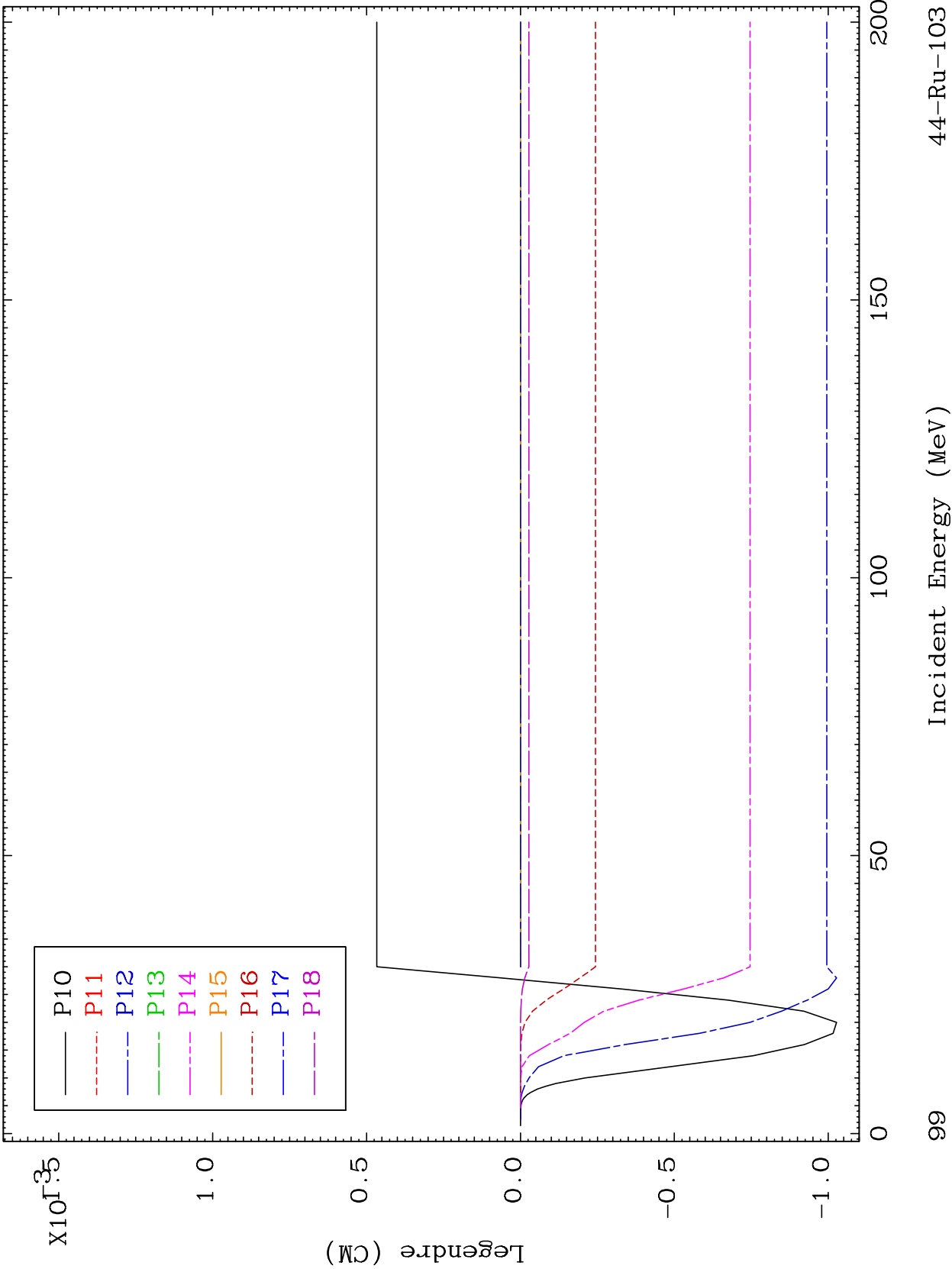
44-Ru-103

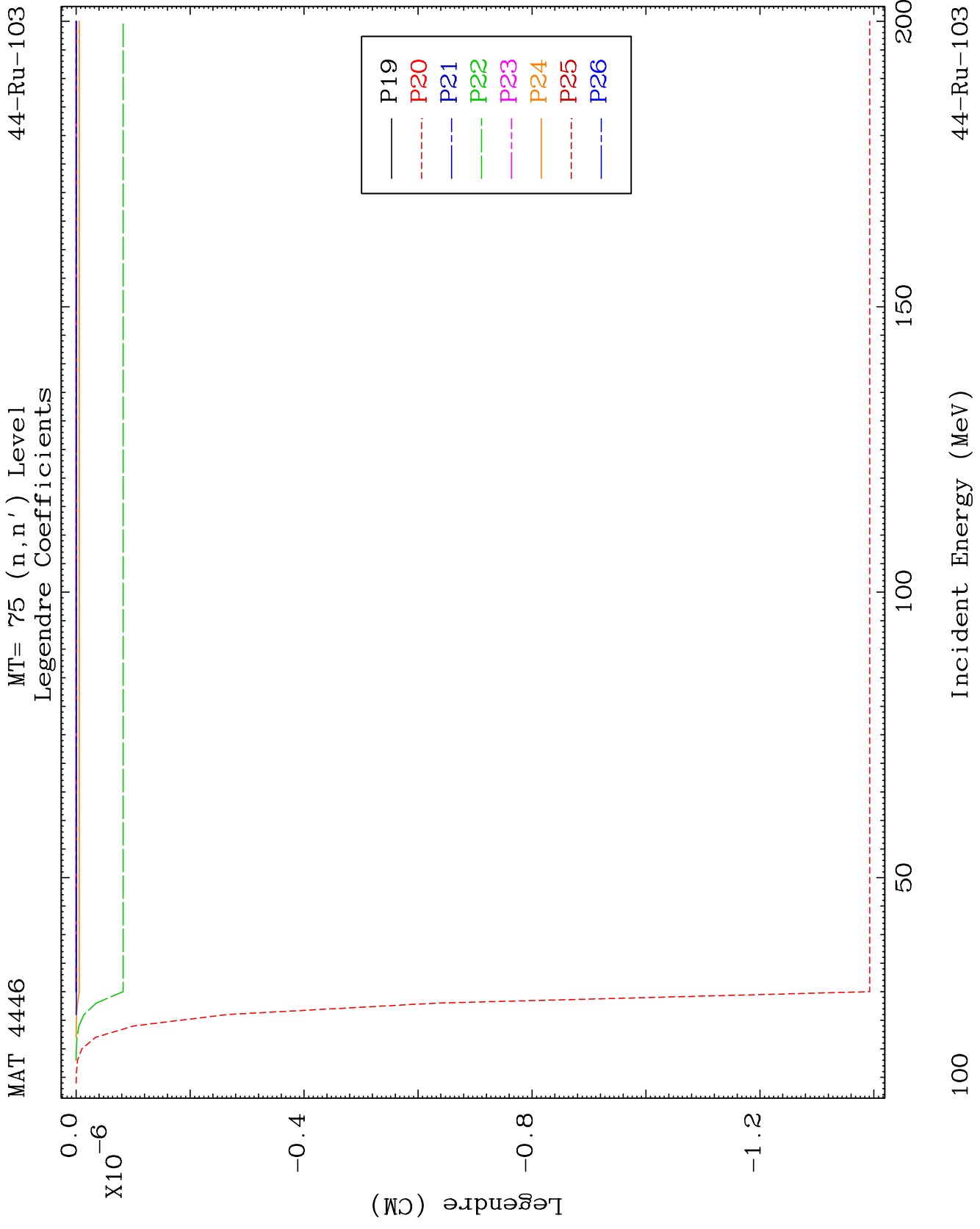


98

Incident Energy (MeV)

44-Ru-103



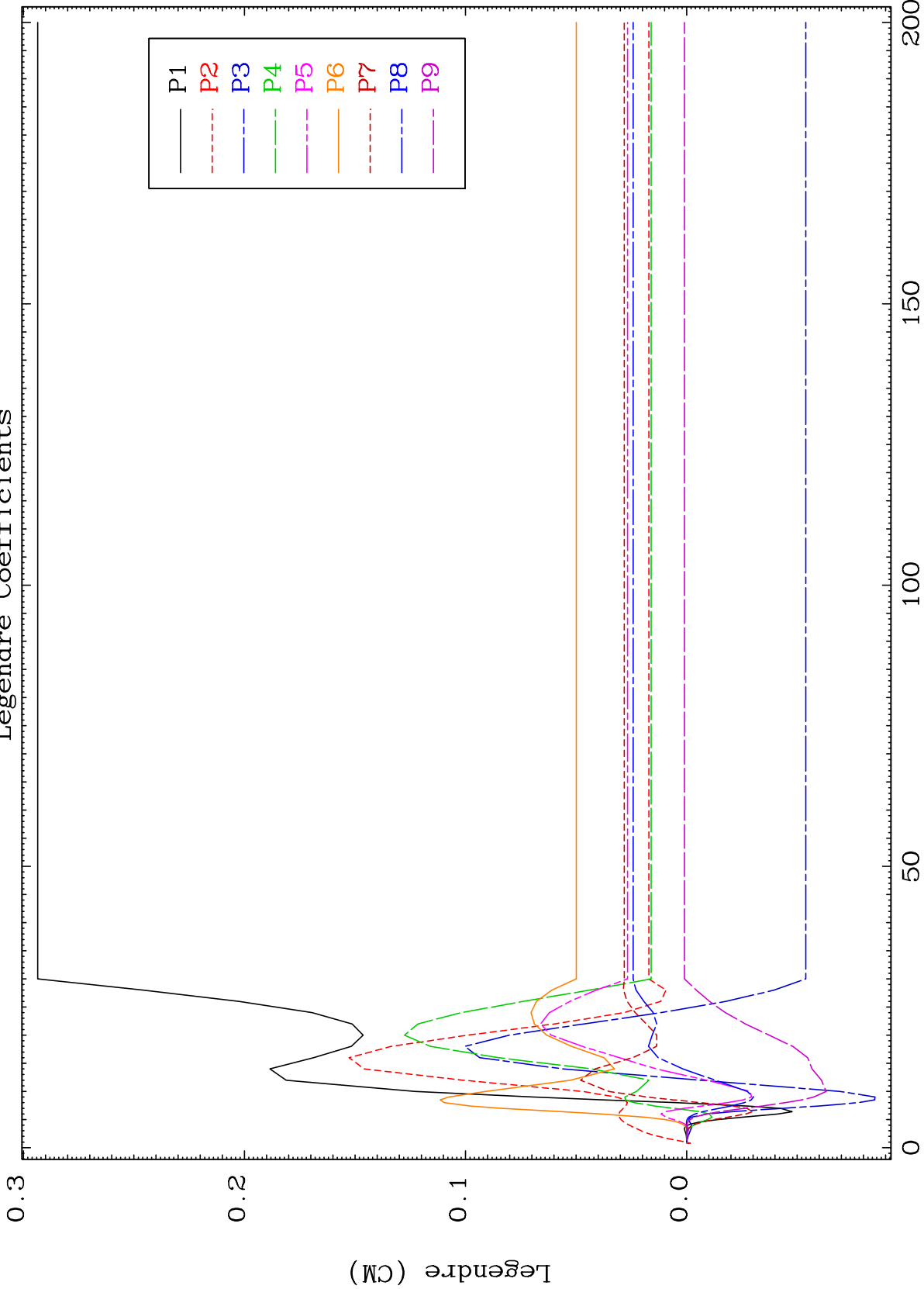


MAT 4446

MT= 76 (n,n') Level

44-Ru-103

Legendre Coefficients



101

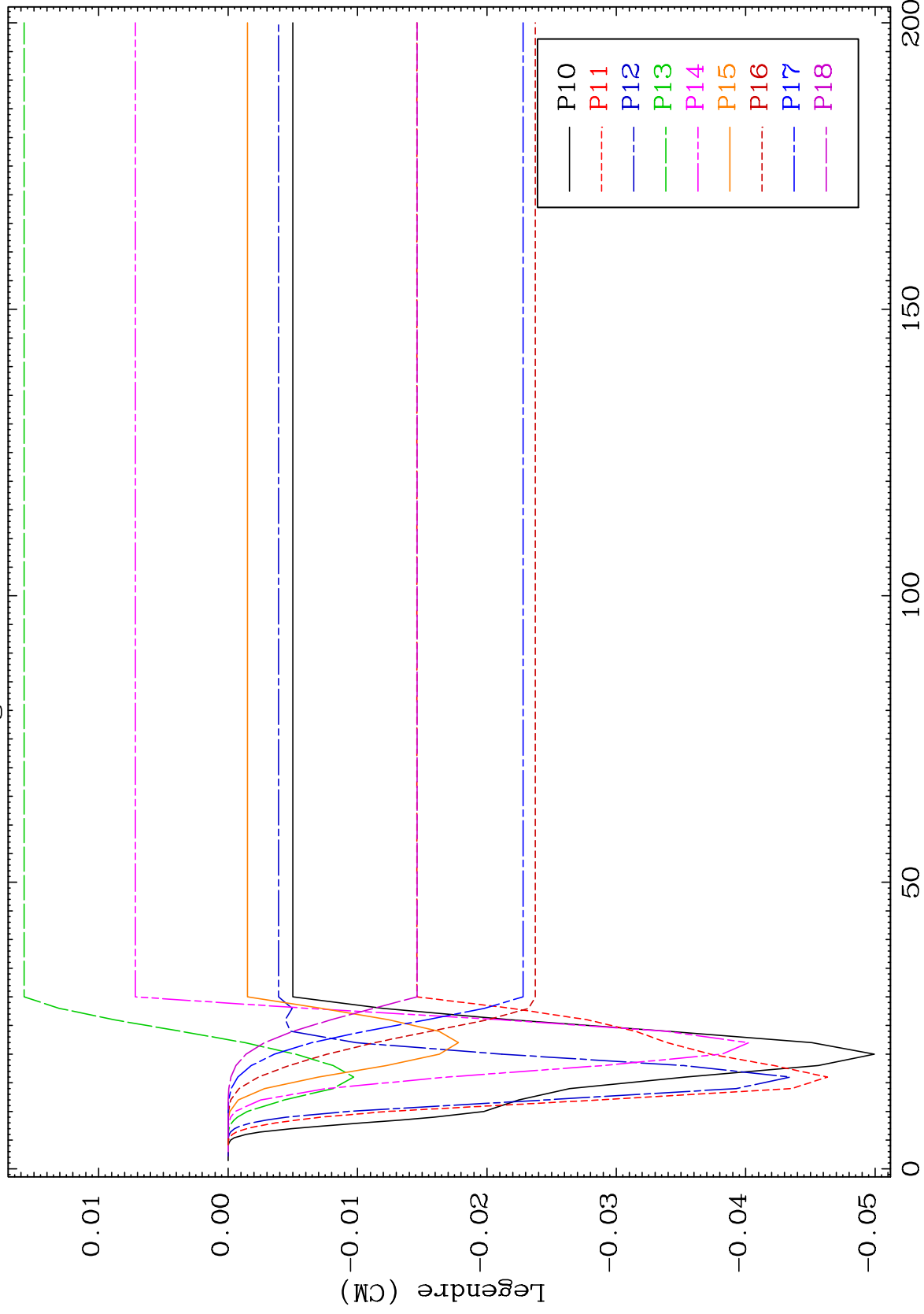
Incident Energy (MeV)

44-Ru-103

MAT 4446

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

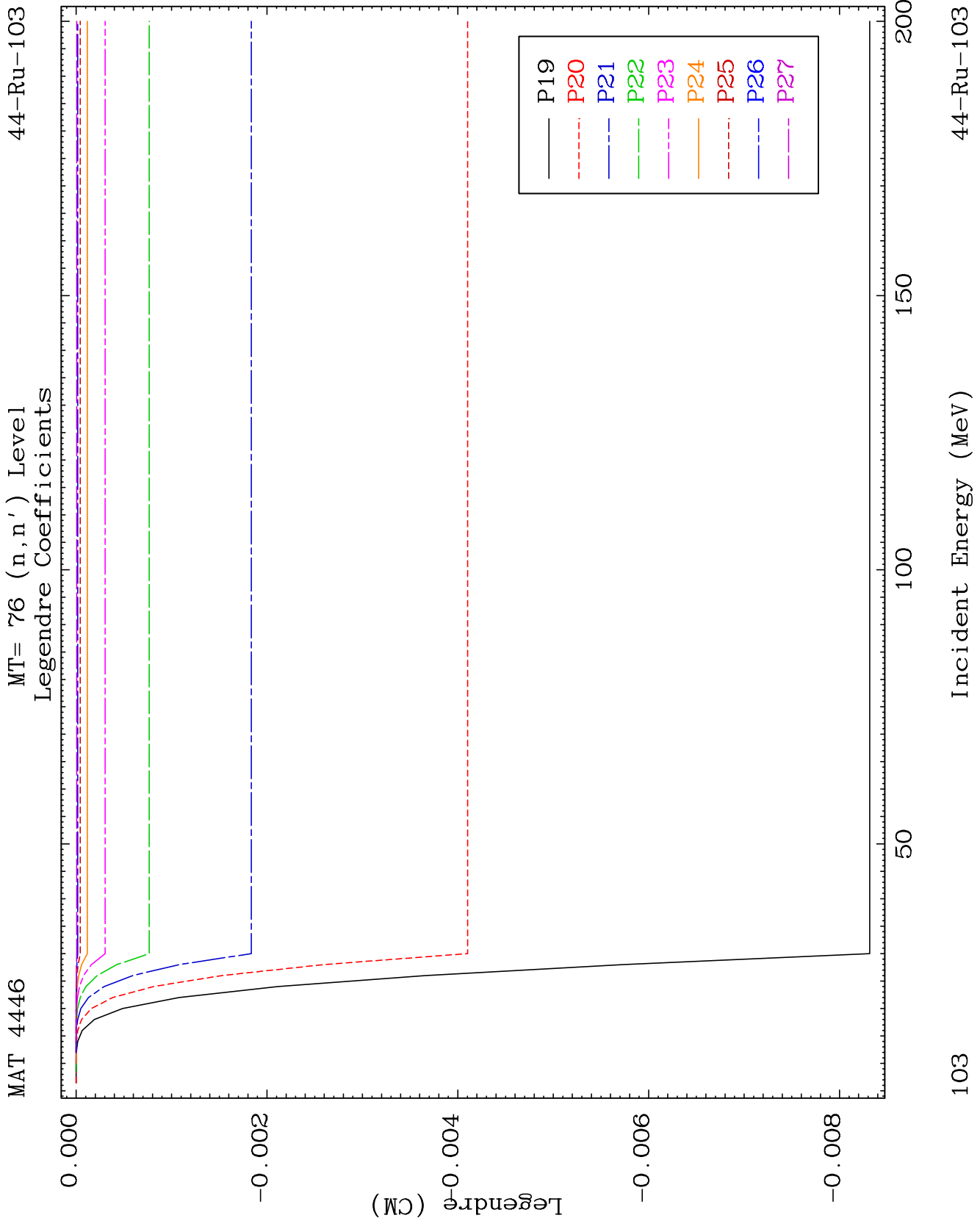
44-Ru-103



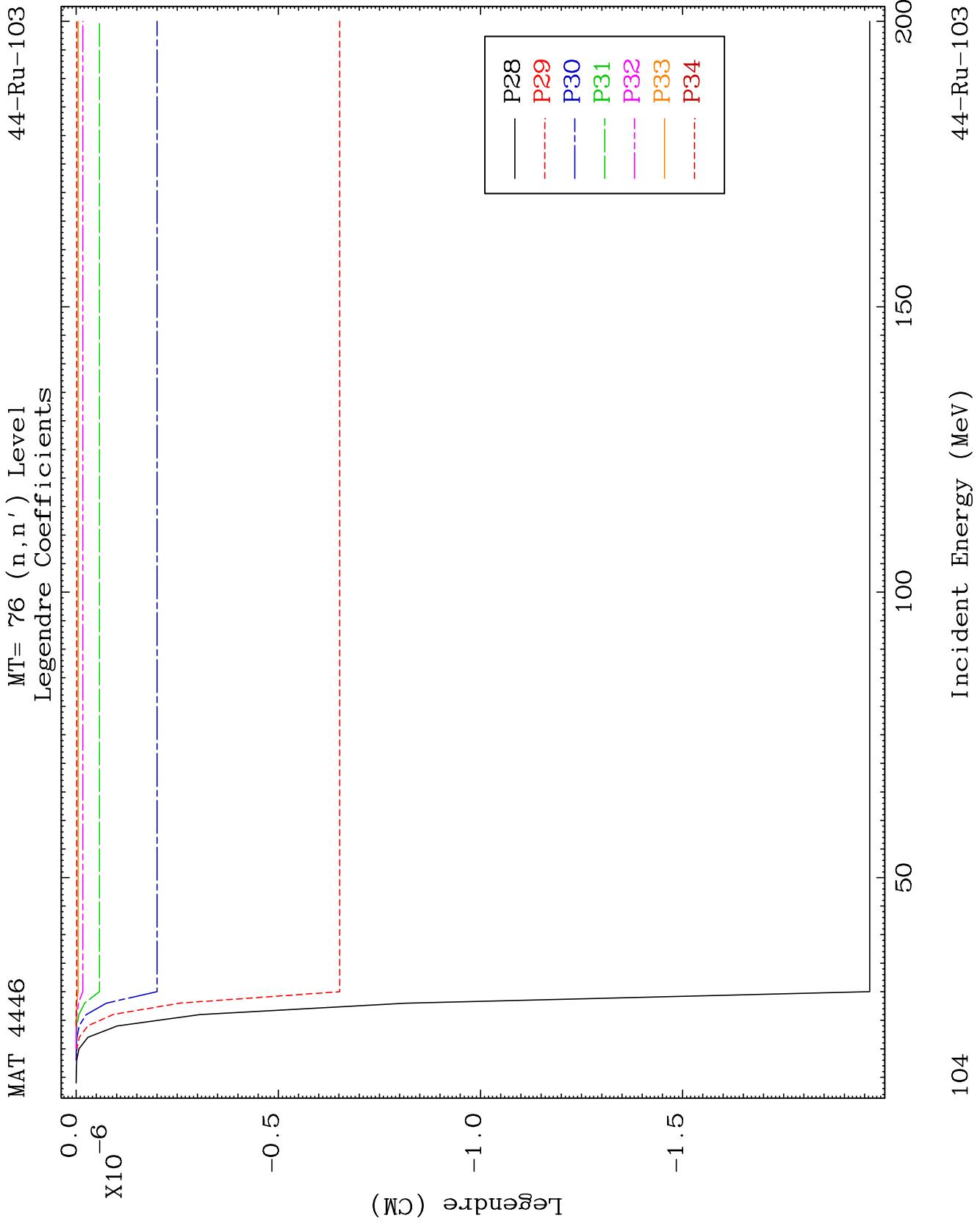
102

Incident Energy (MeV)

44-Ru-103



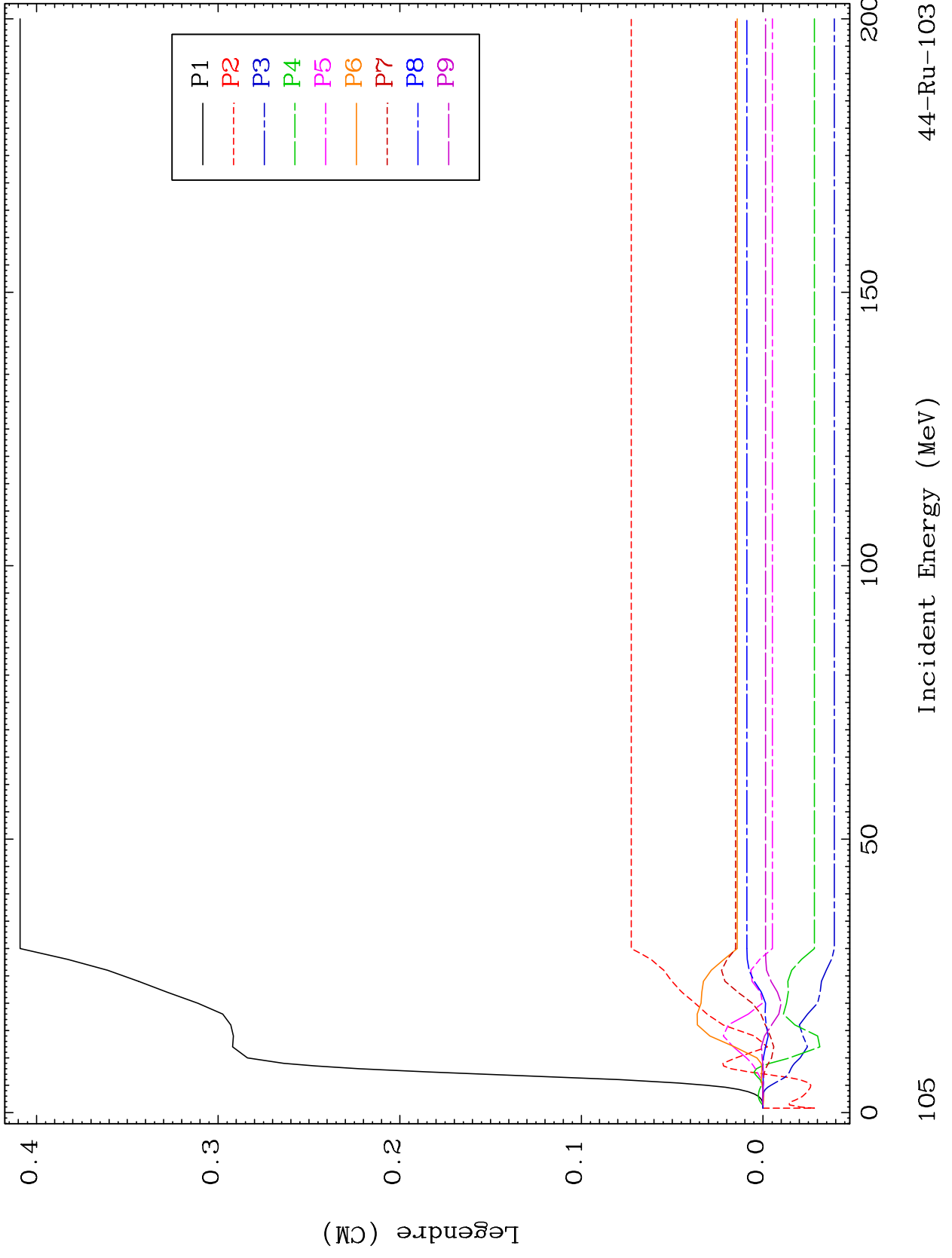




MAT 4446

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

44-Ru-103



44-Ru-103

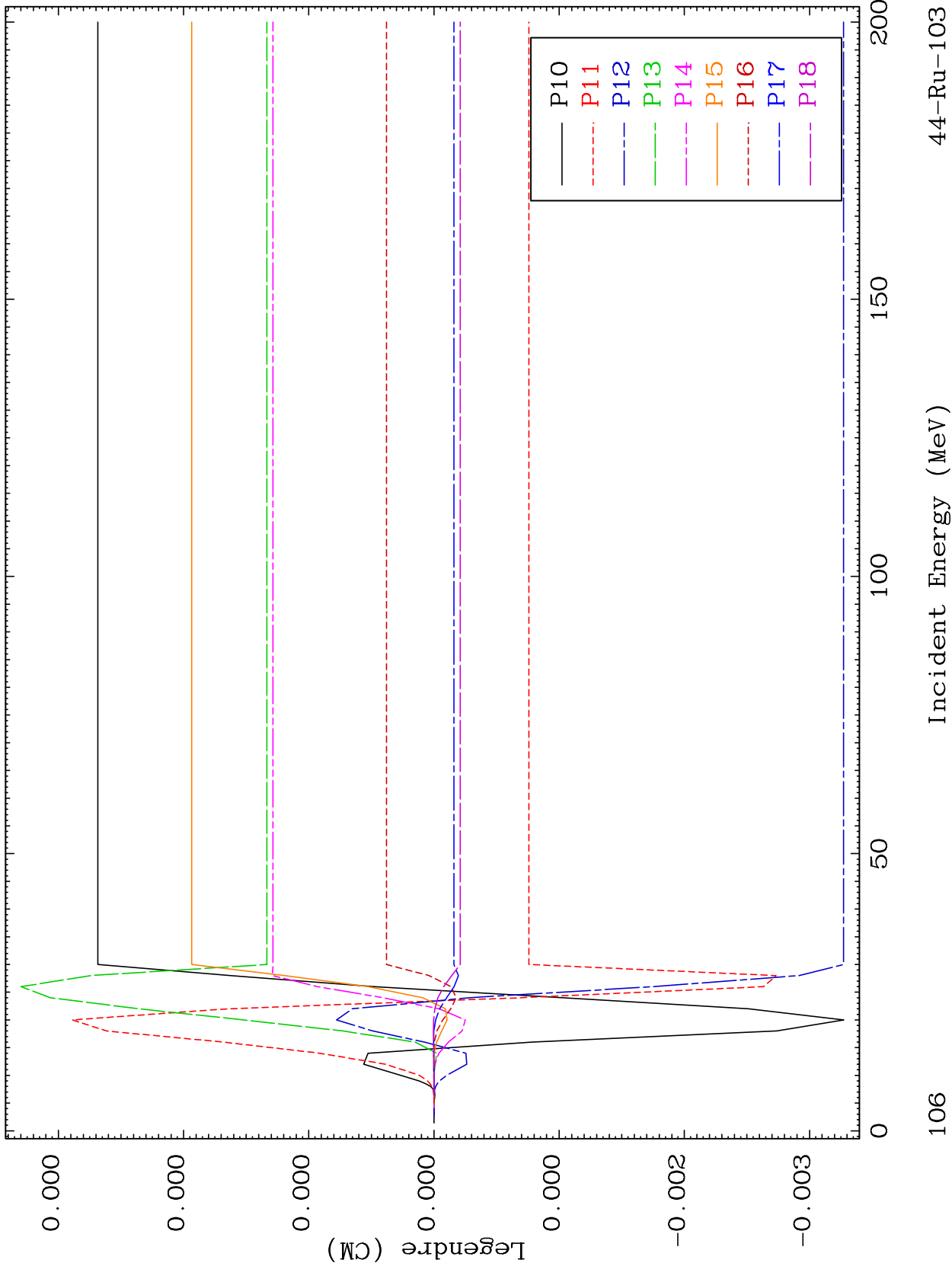
Incident Energy (MeV)

105

MAT 4446

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

44-Ru-103



44-Ru-103

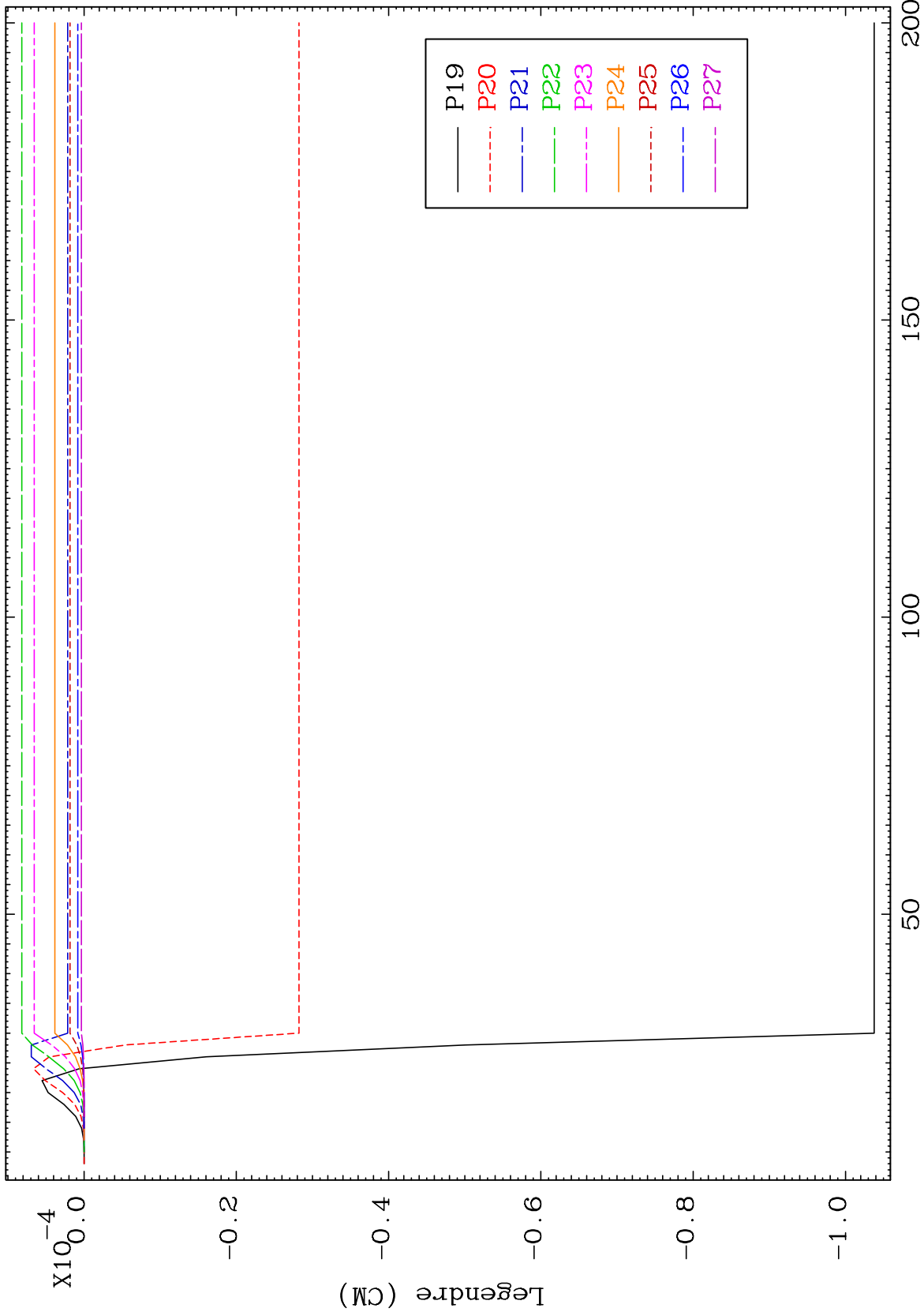
Incident Energy (MeV)

106

MAT 4446

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

44-Ru-103



107

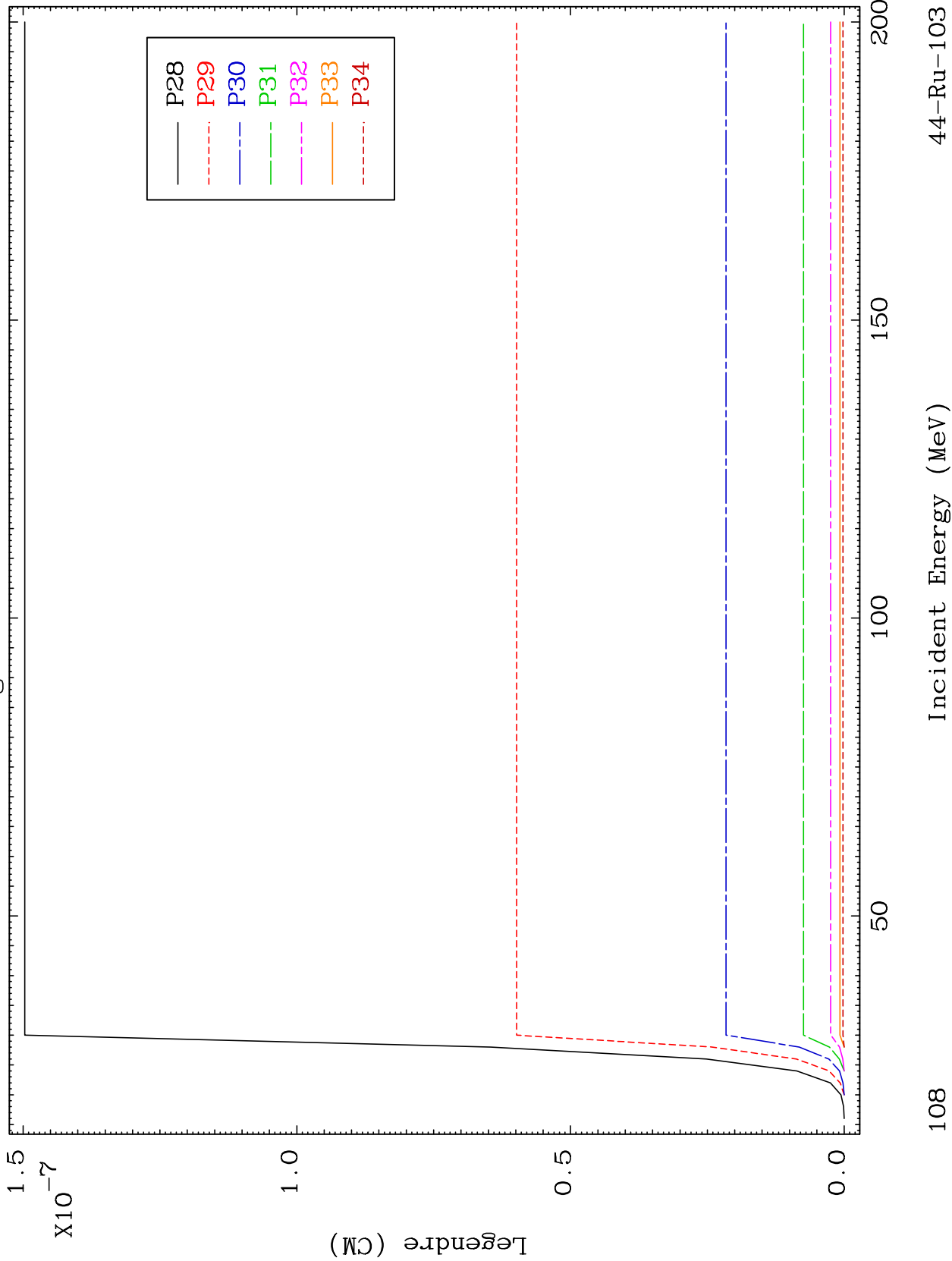
Incident Energy (MeV)

44-Ru-103

MAT 4446

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

44-Ru-103



108

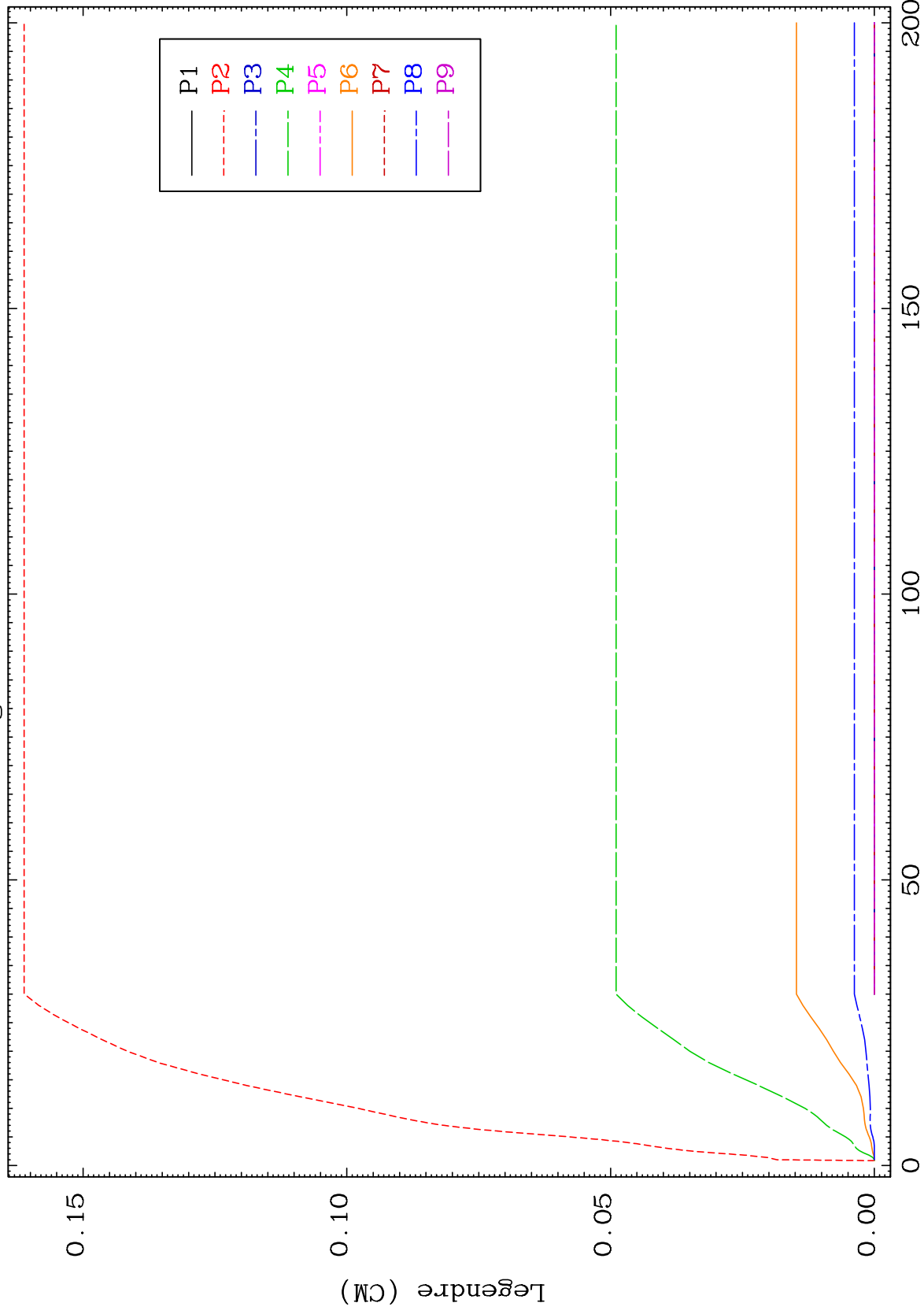
Incident Energy (MeV)

44-Ru-103

MAT 4446

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

44-Ru-103



44-Ru-103

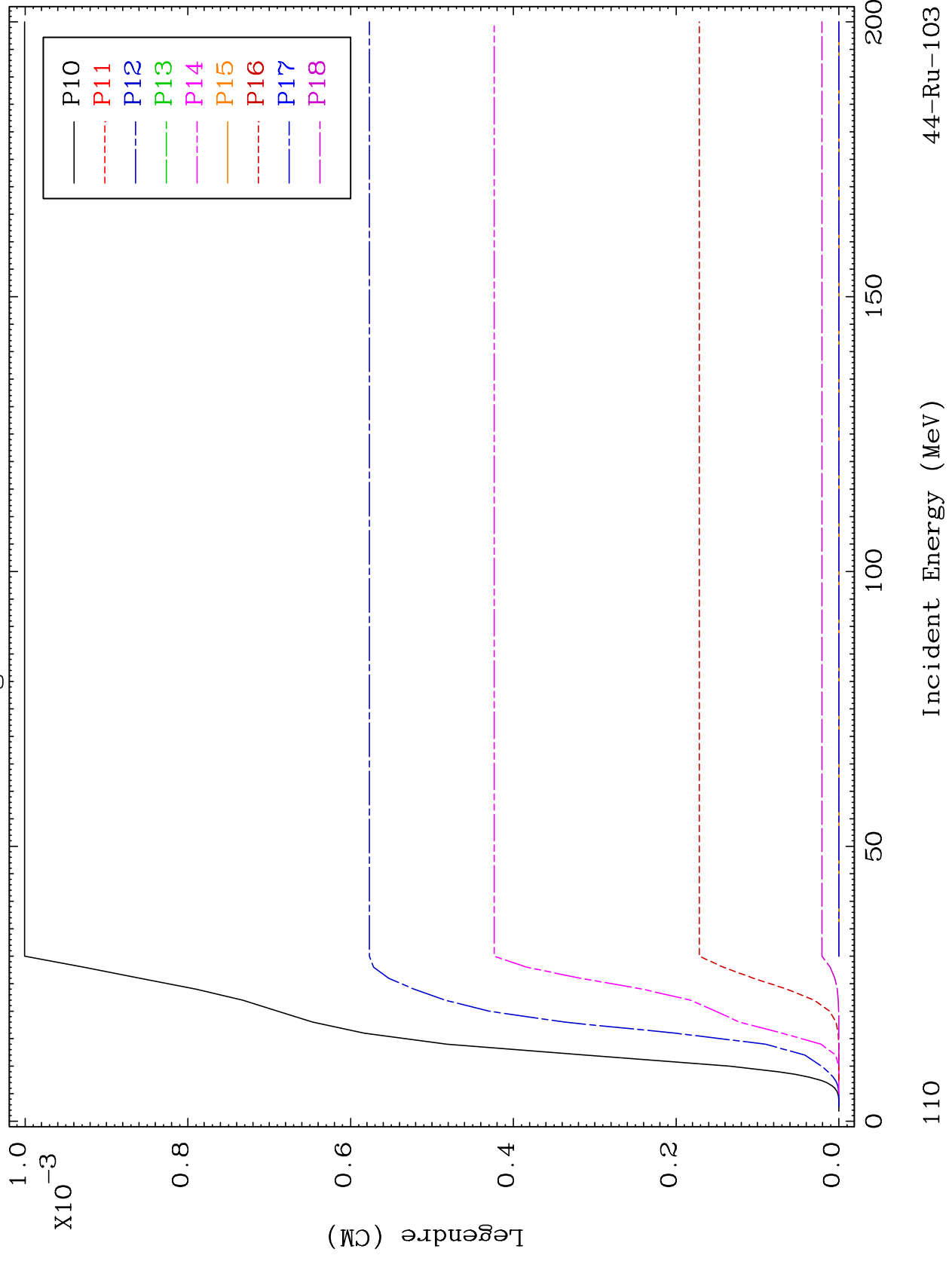
Incident Energy (MeV)

109

MAT 4446

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

44-Ru-103



44-Ru-103

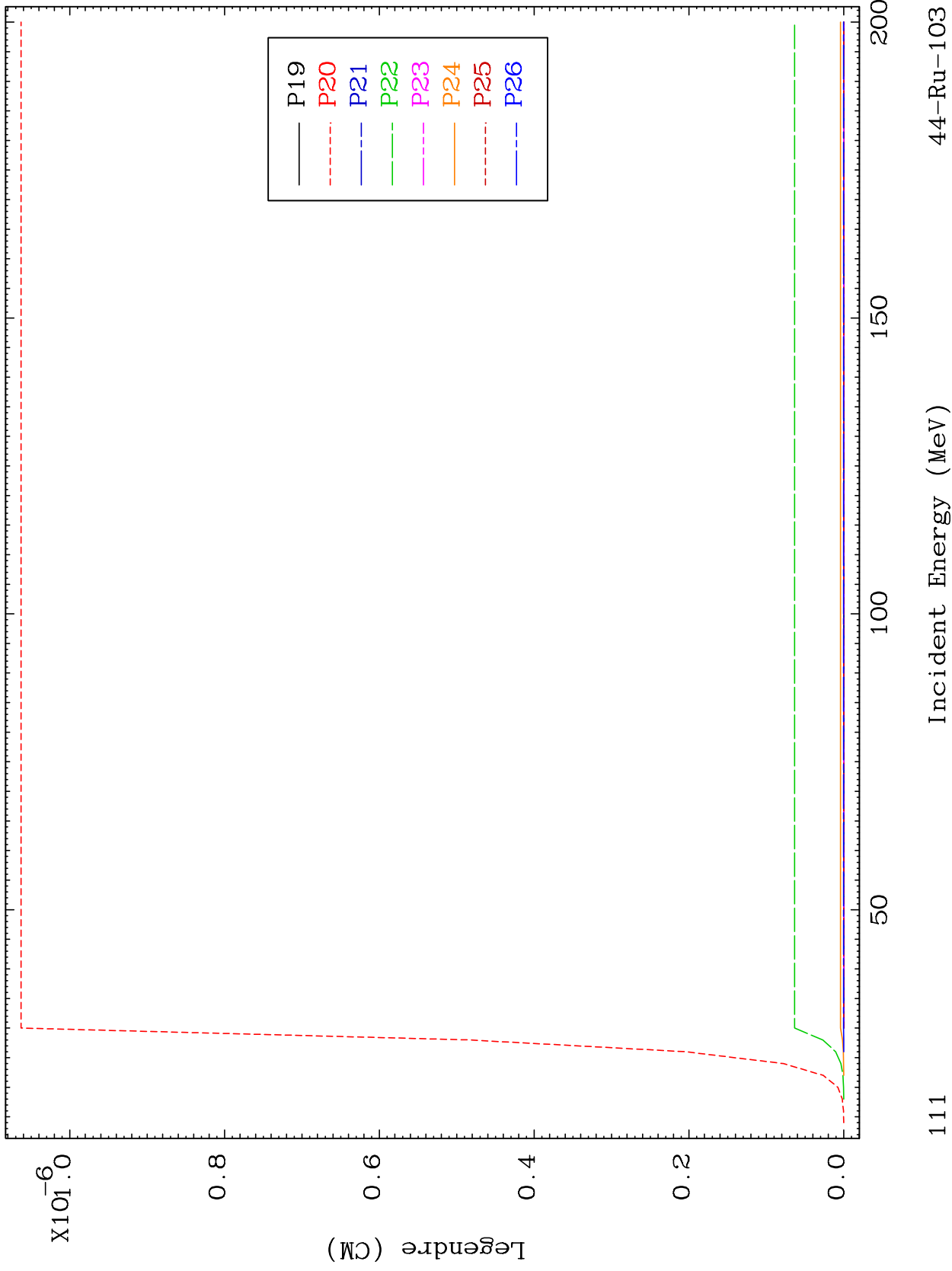
Incident Energy (MeV)

110

MAT 4446

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

44-Ru-103

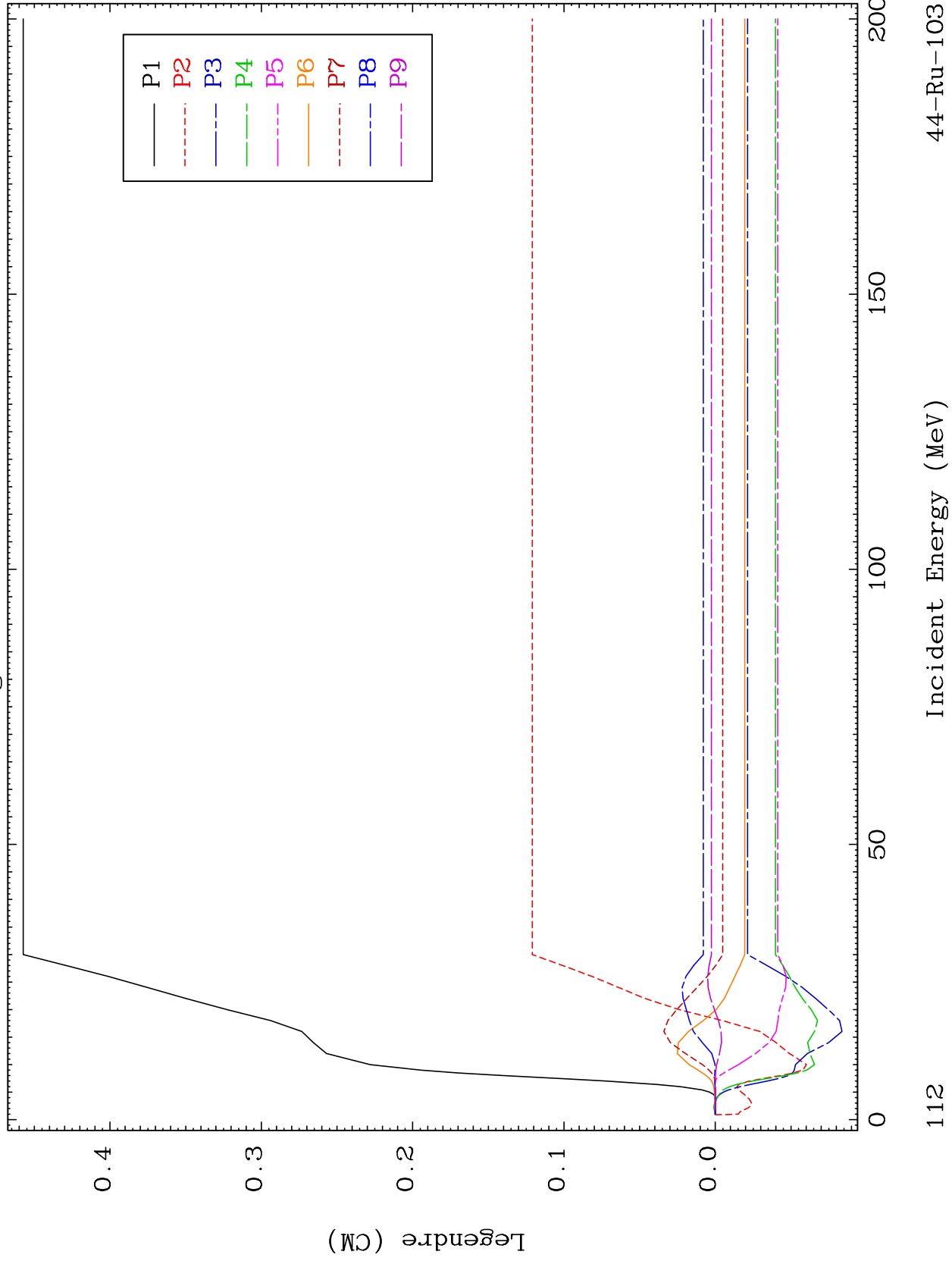




MAT 4446

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

44-Ru-103



44-Ru-103

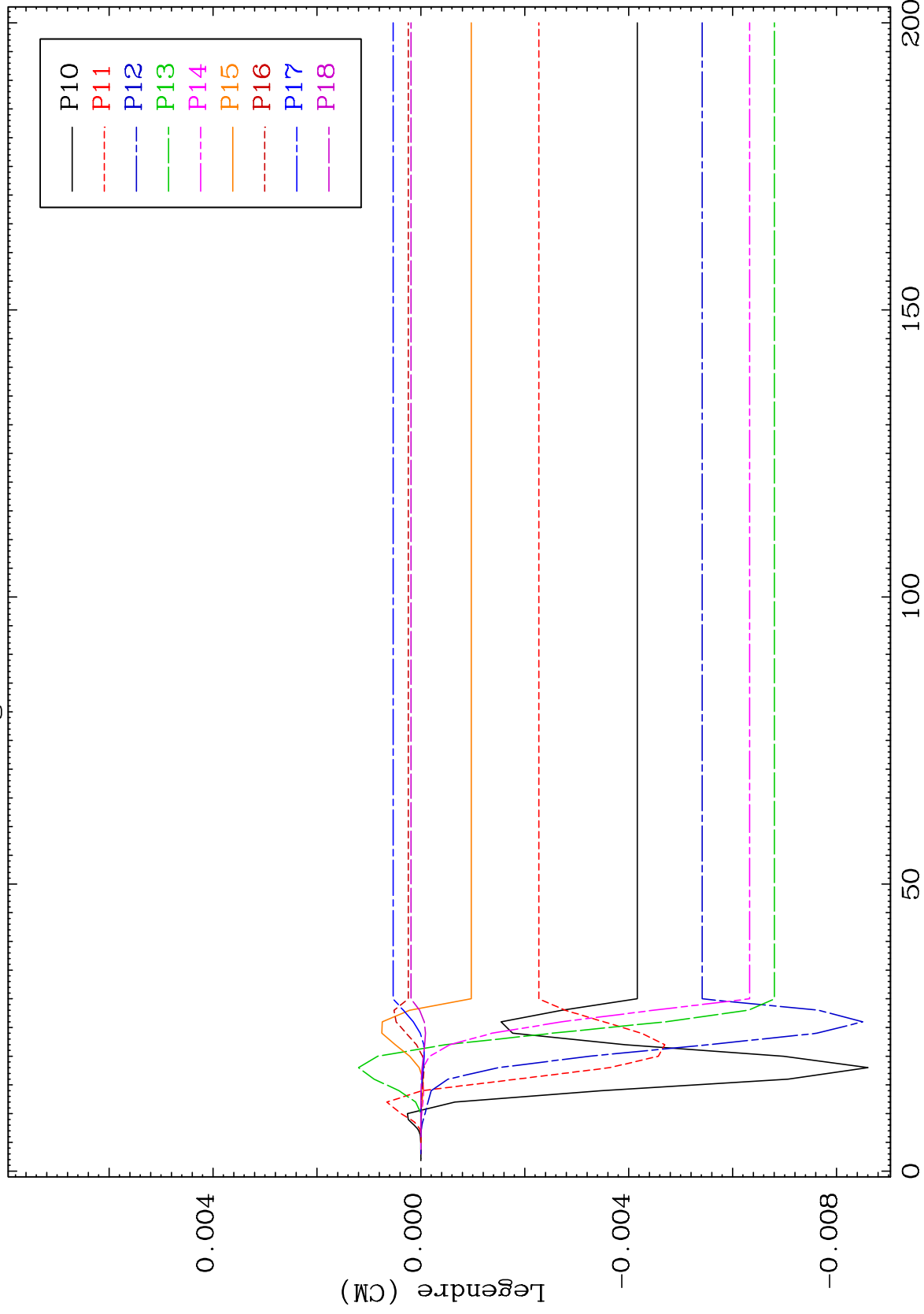
Incident Energy (MeV)

112

MAT 4446

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

44-Ru-103



113

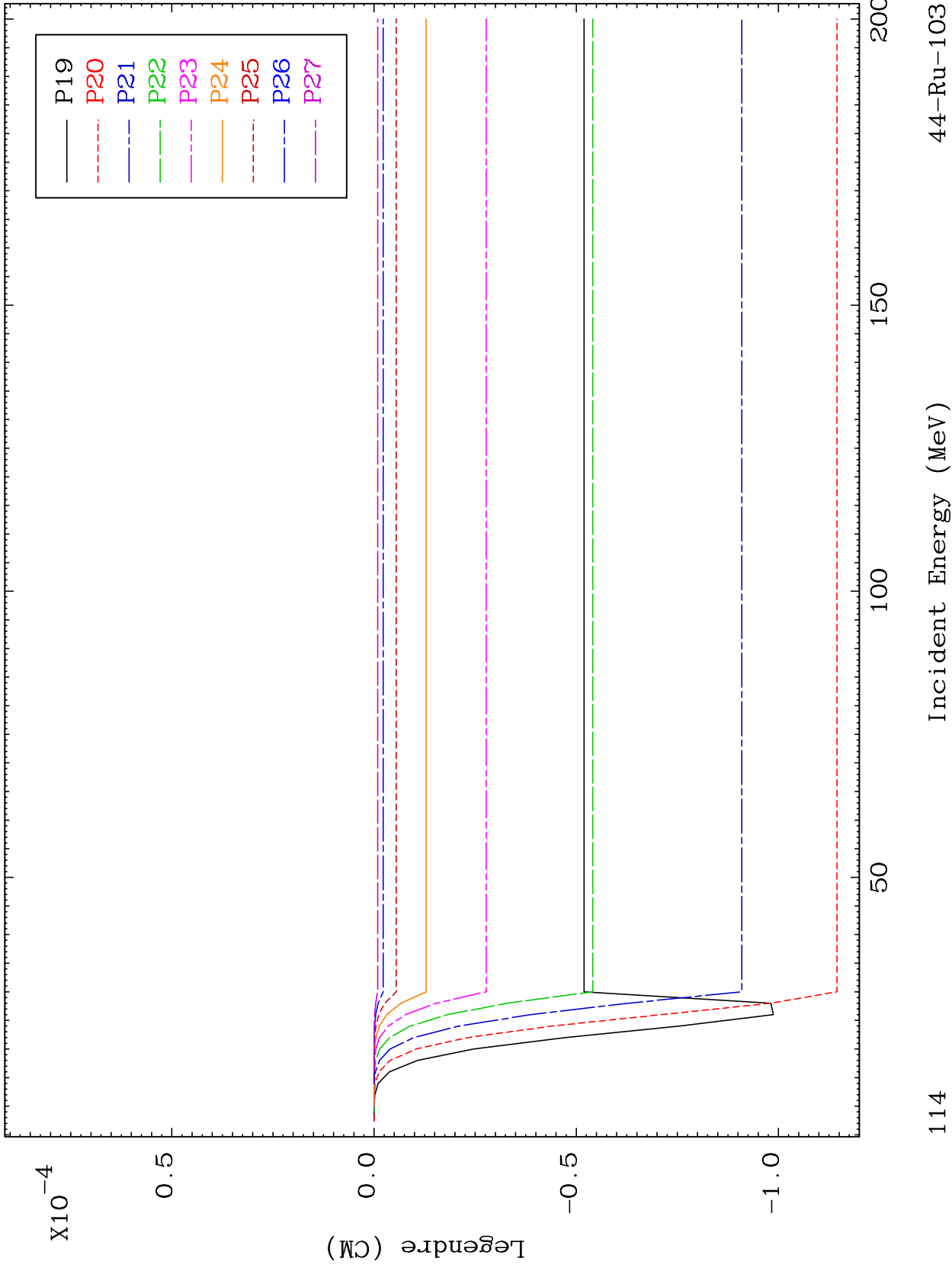
Incident Energy (MeV)

44-Ru-103

MAT 4446

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

44-Ru-103



114

Incident Energy (MeV)

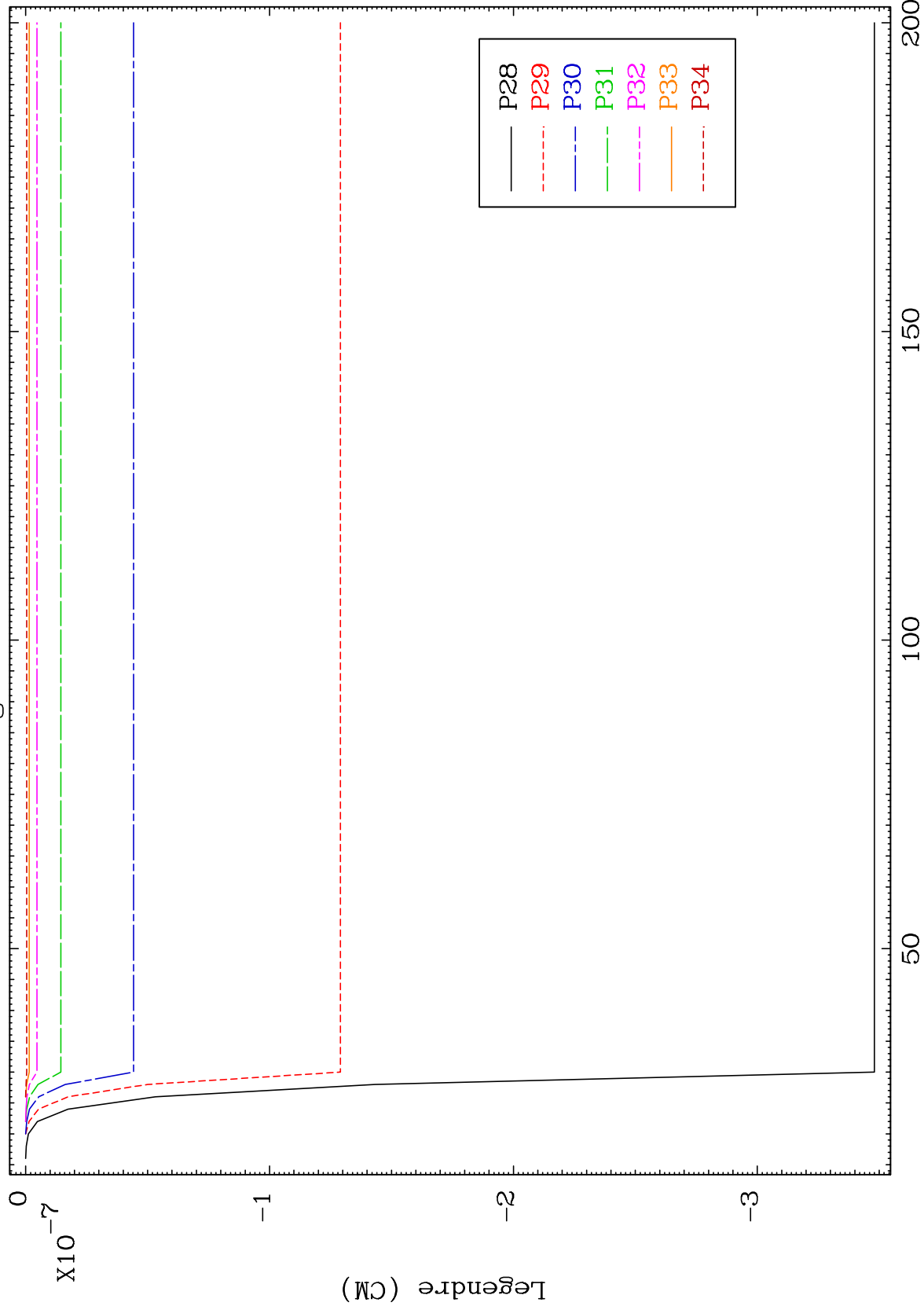
44-Ru-103

MAT 4446

MT= 79 (n,n') Level

44-Ru-103

Legendre Coefficients



115

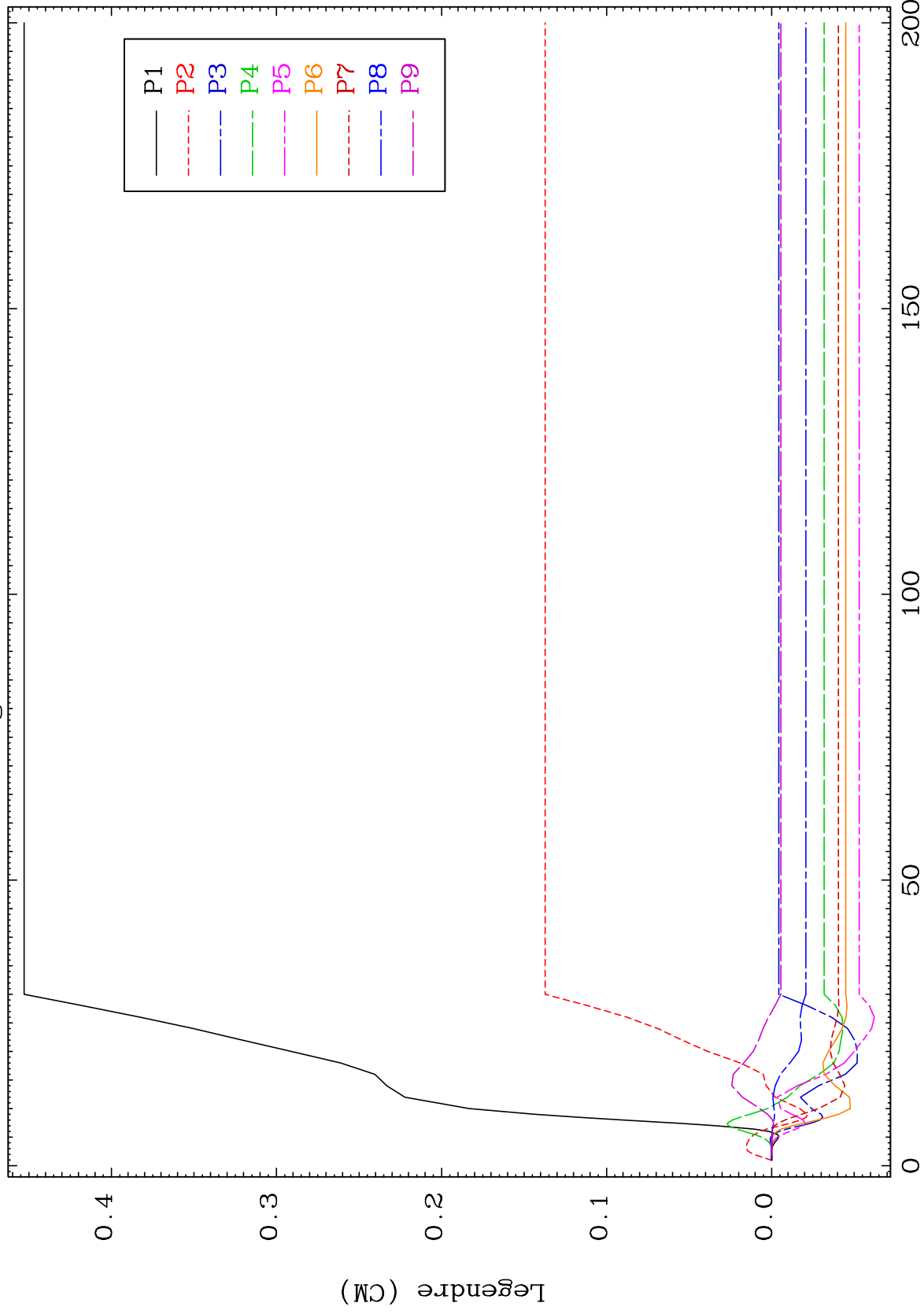
Incident Energy (MeV)

44-Ru-103

MAT 4446

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

44-Ru-103



116

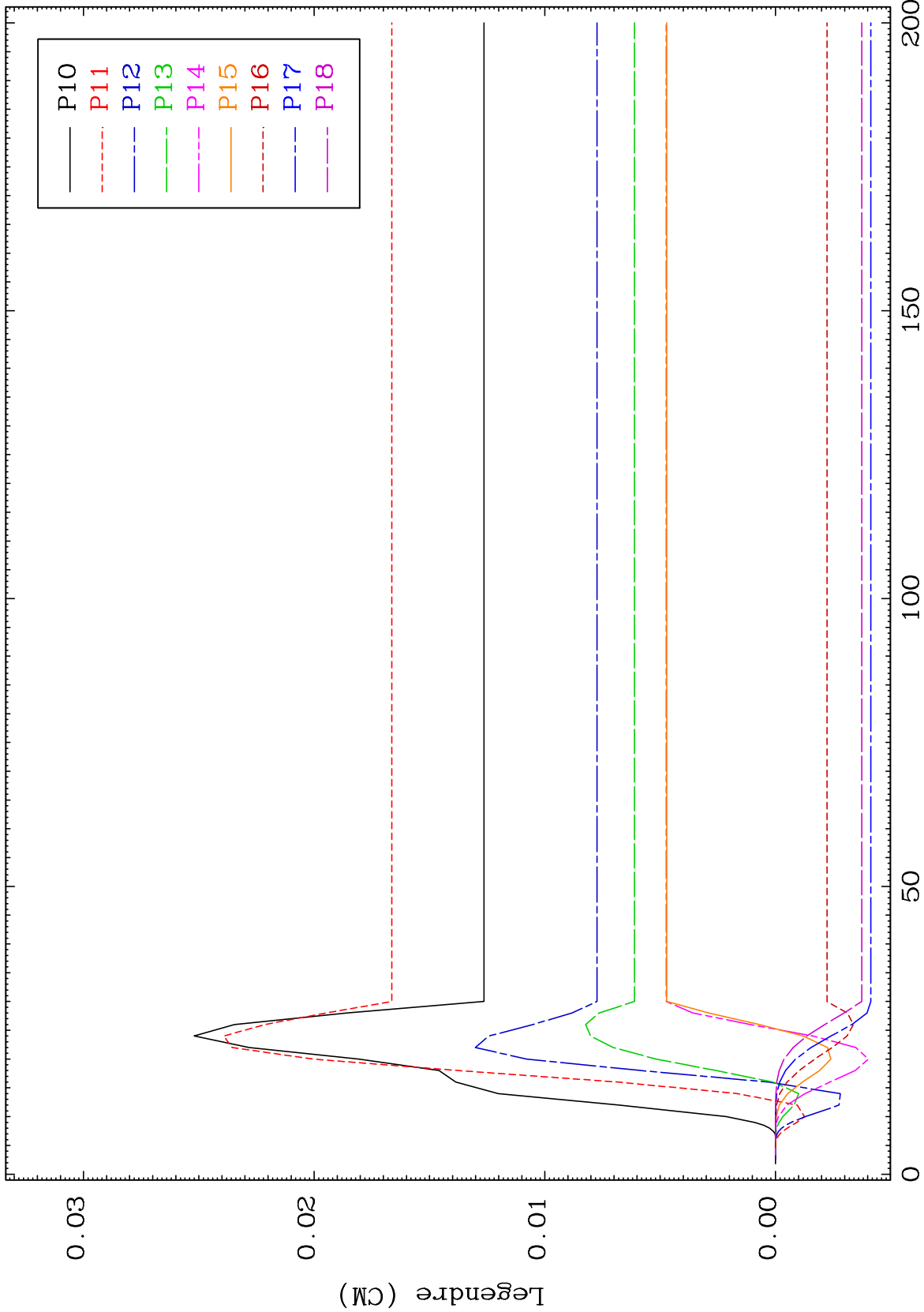
Incident Energy (MeV)

44-Ru-103

MAT 4446

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

44-Ru-103



117

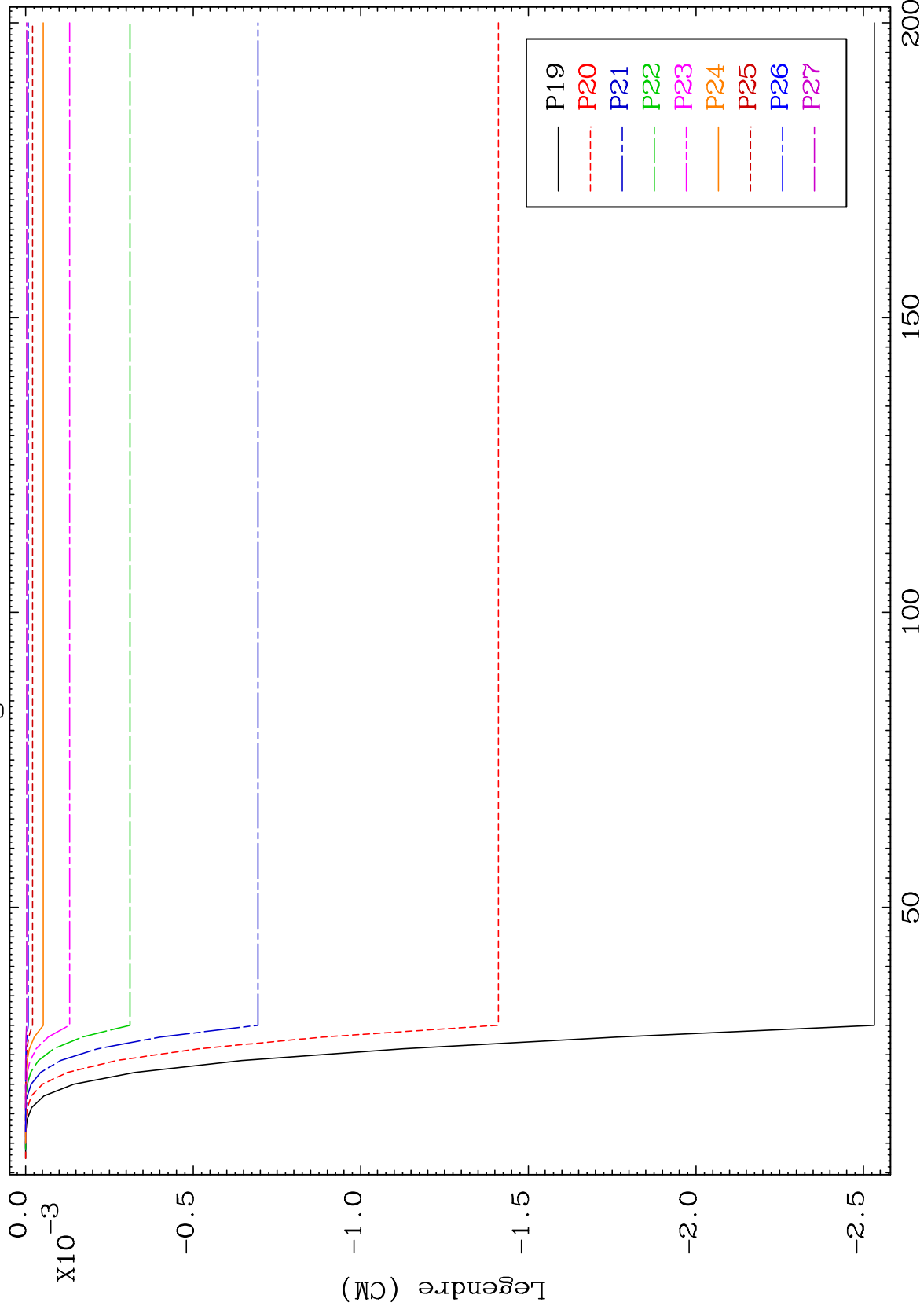
Incident Energy (MeV)

44-Ru-103

MAT 4446

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

44-Ru-103



118

Incident Energy (MeV)

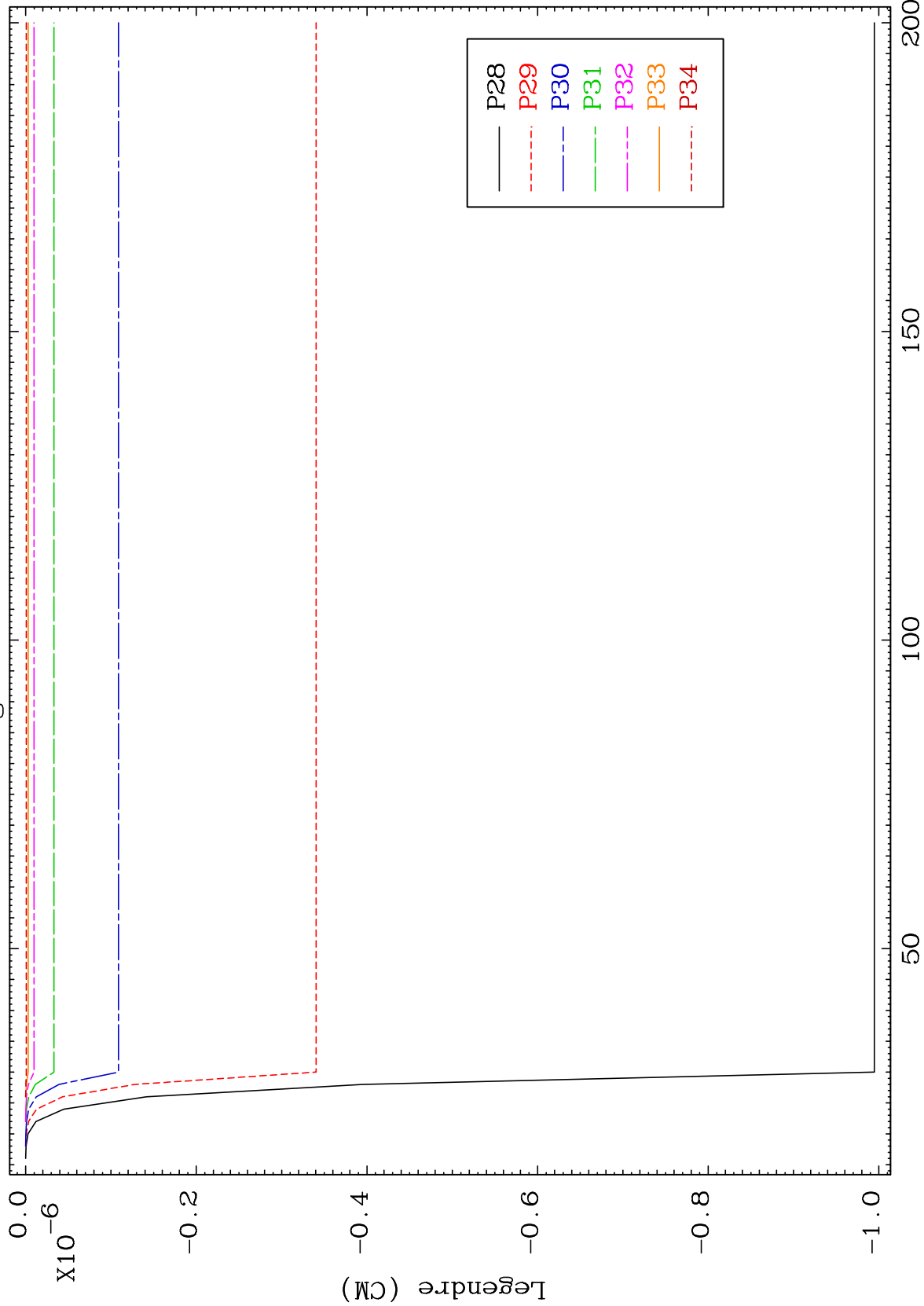
44-Ru-103

MAT 4446

MT= 80 (n,n') Level

44-Ru-103

Legendre Coefficients



119

Incident Energy (MeV)

44-Ru-103

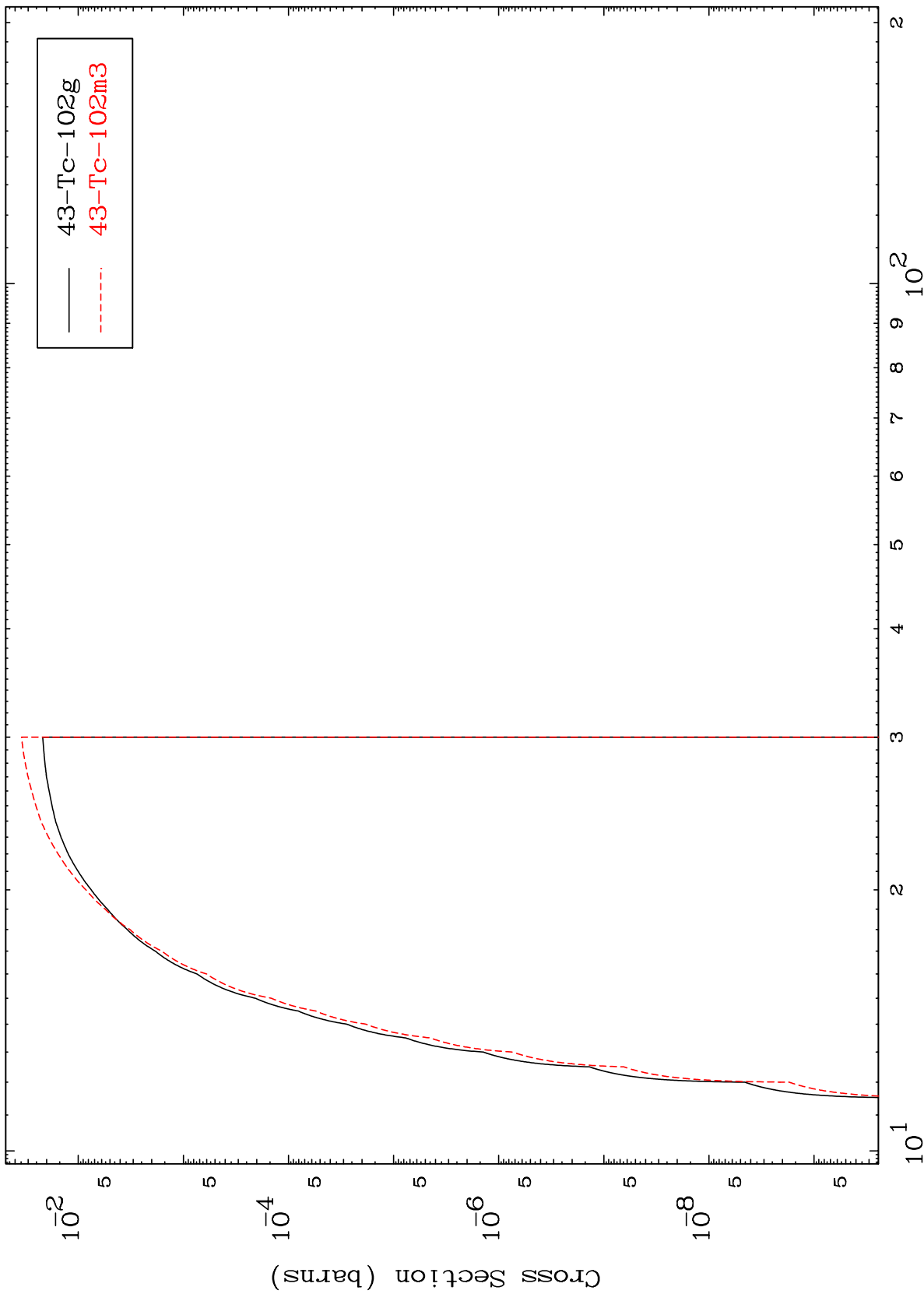


MAT 4446

(n,n') p

44-Ru-103

Radionuclide Production Cross Section



44-Ru-103

Incident Energy (MeV)

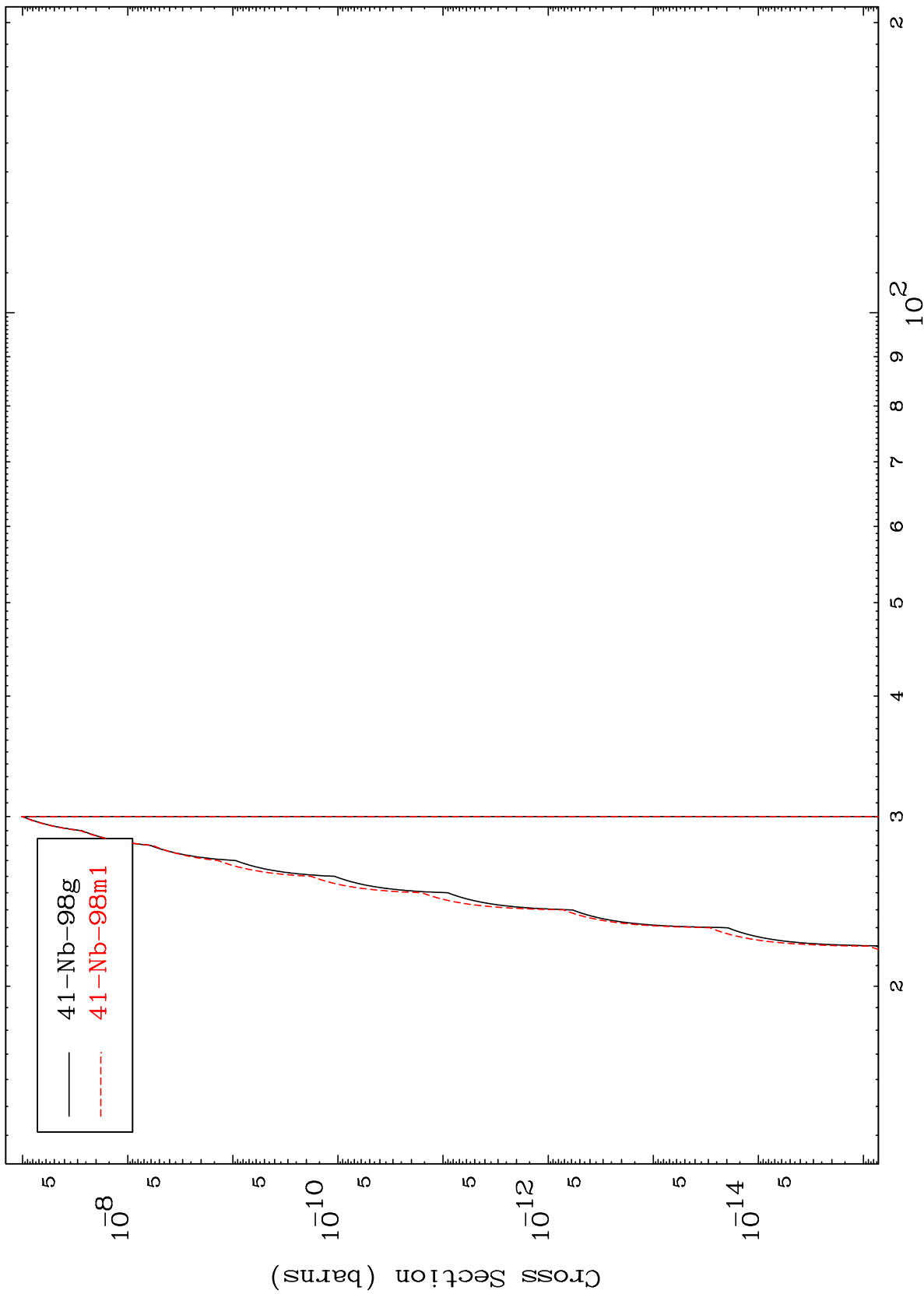
120

MAT 4446

(n,n') p  $\alpha$

44-Ru-103

Radionuclide Production Cross Section



121

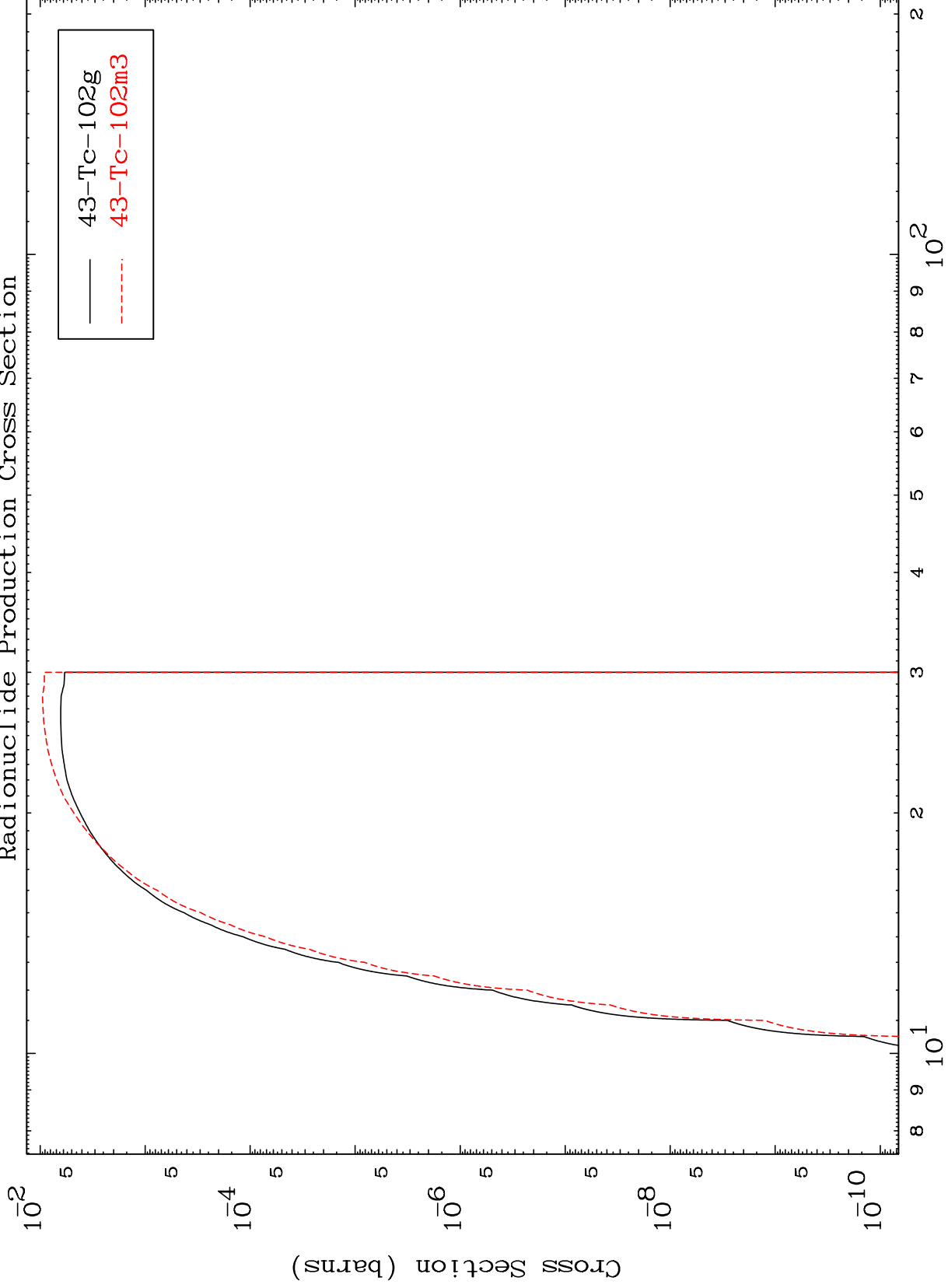
Incident Energy (MeV)

44-Ru-103

MAT 4446

44-Ru-103

(n,d)  
Radionuclide Production Cross Section



122

Incident Energy (MeV)

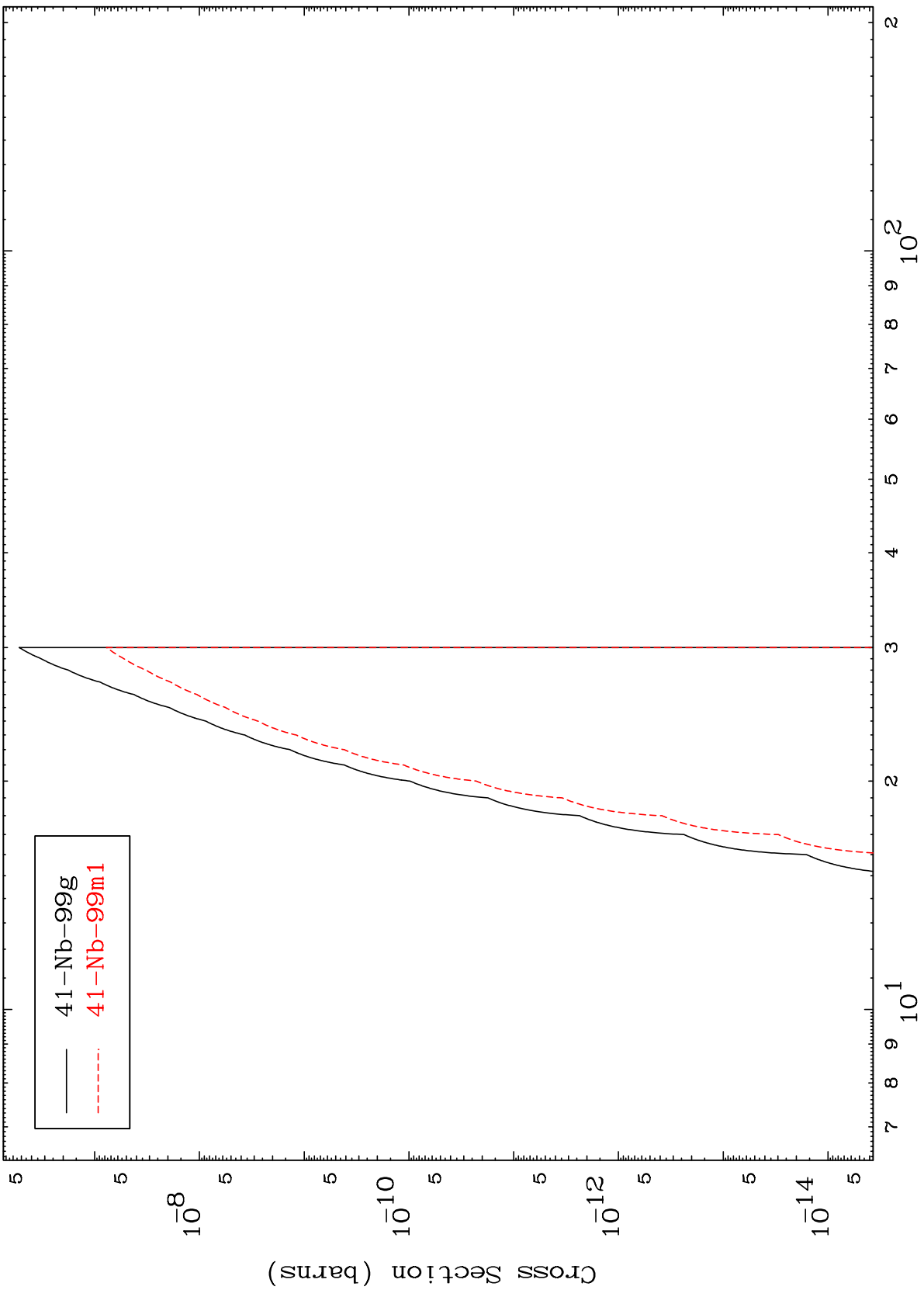
44-Ru-103

MAT 4446

(n,p)  $\alpha$

44-Ru-103

Radionuclide Production Cross Section



123

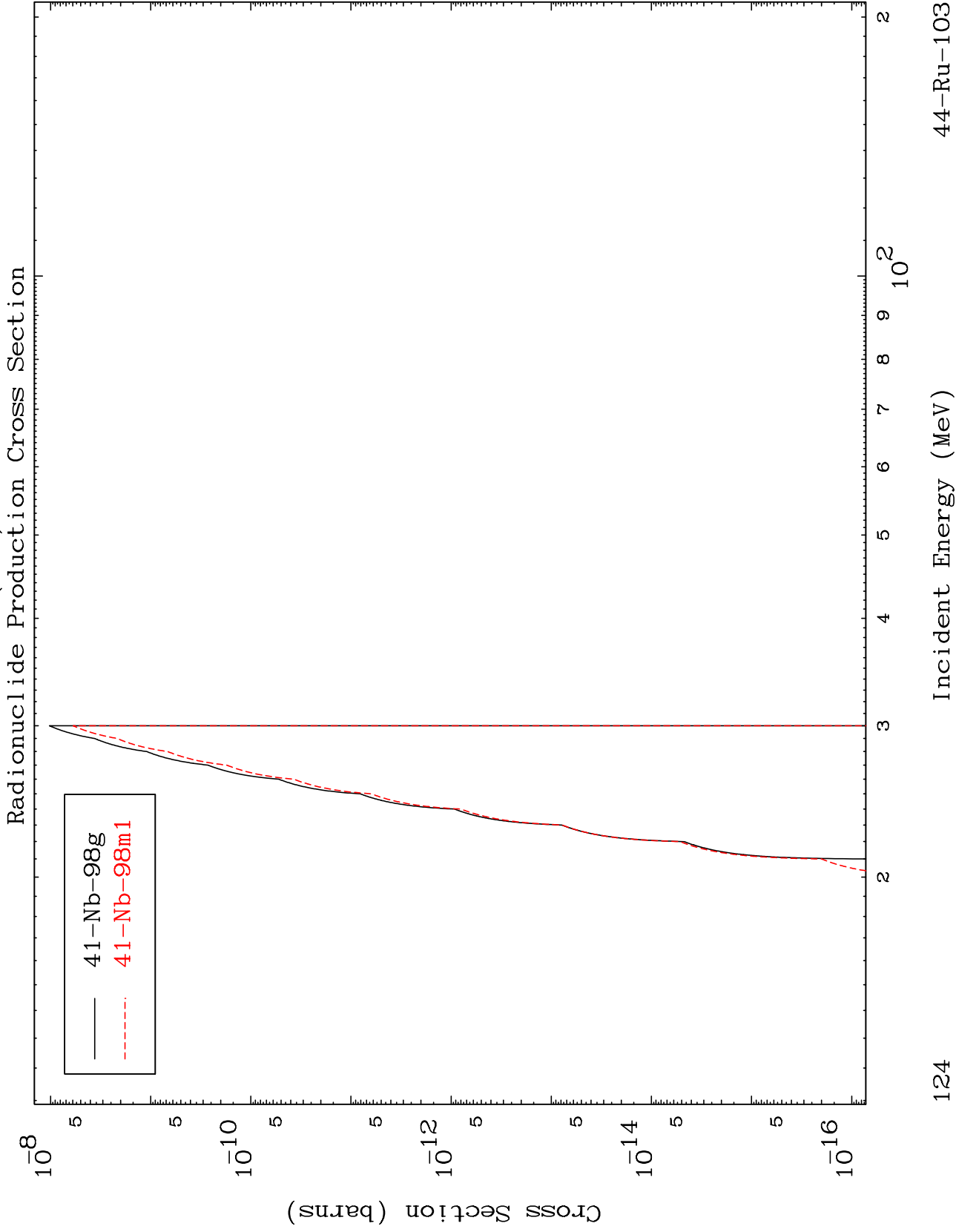
Incident Energy (MeV)

44-Ru-103

MAT 4446

(n,d)  $\alpha$

44-Ru-103



124

44-Ru-103