

Program EVALPLOT
(Version 2015-2)

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:home.comcast.net/~redcullen1

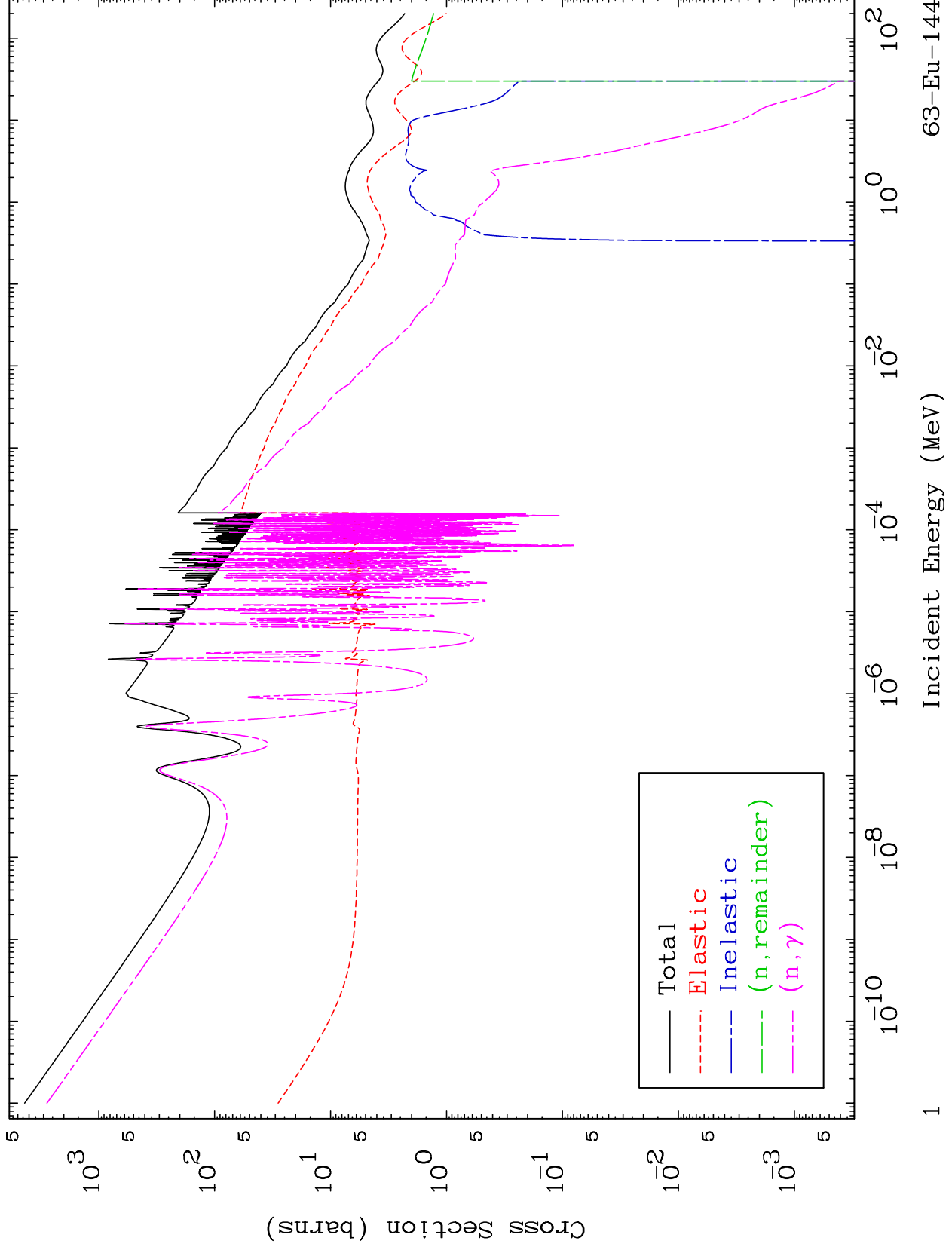
Press Mouse Button to Start

MAT 6304

Major

293 Kelvin Cross Sections

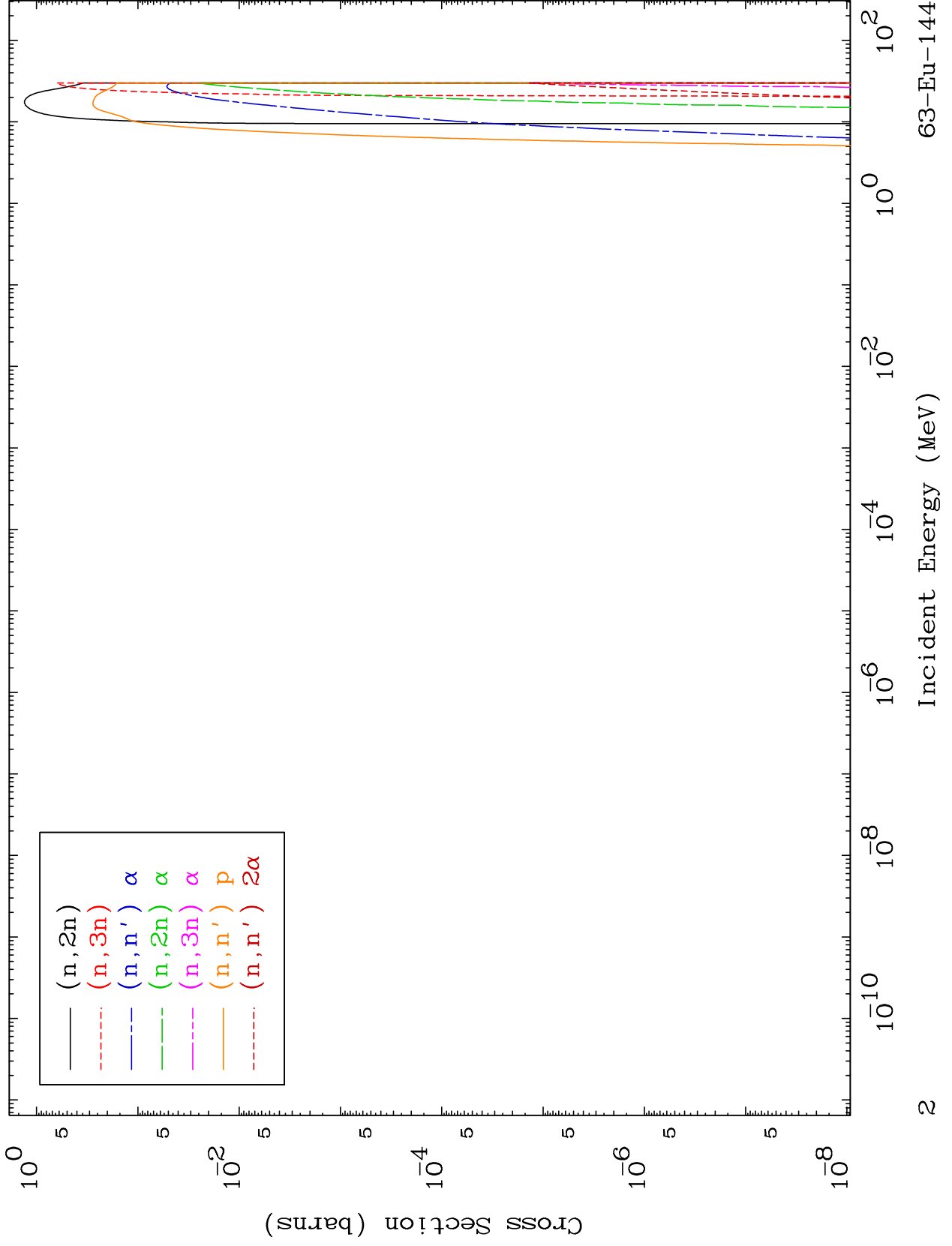
63-Eu-144

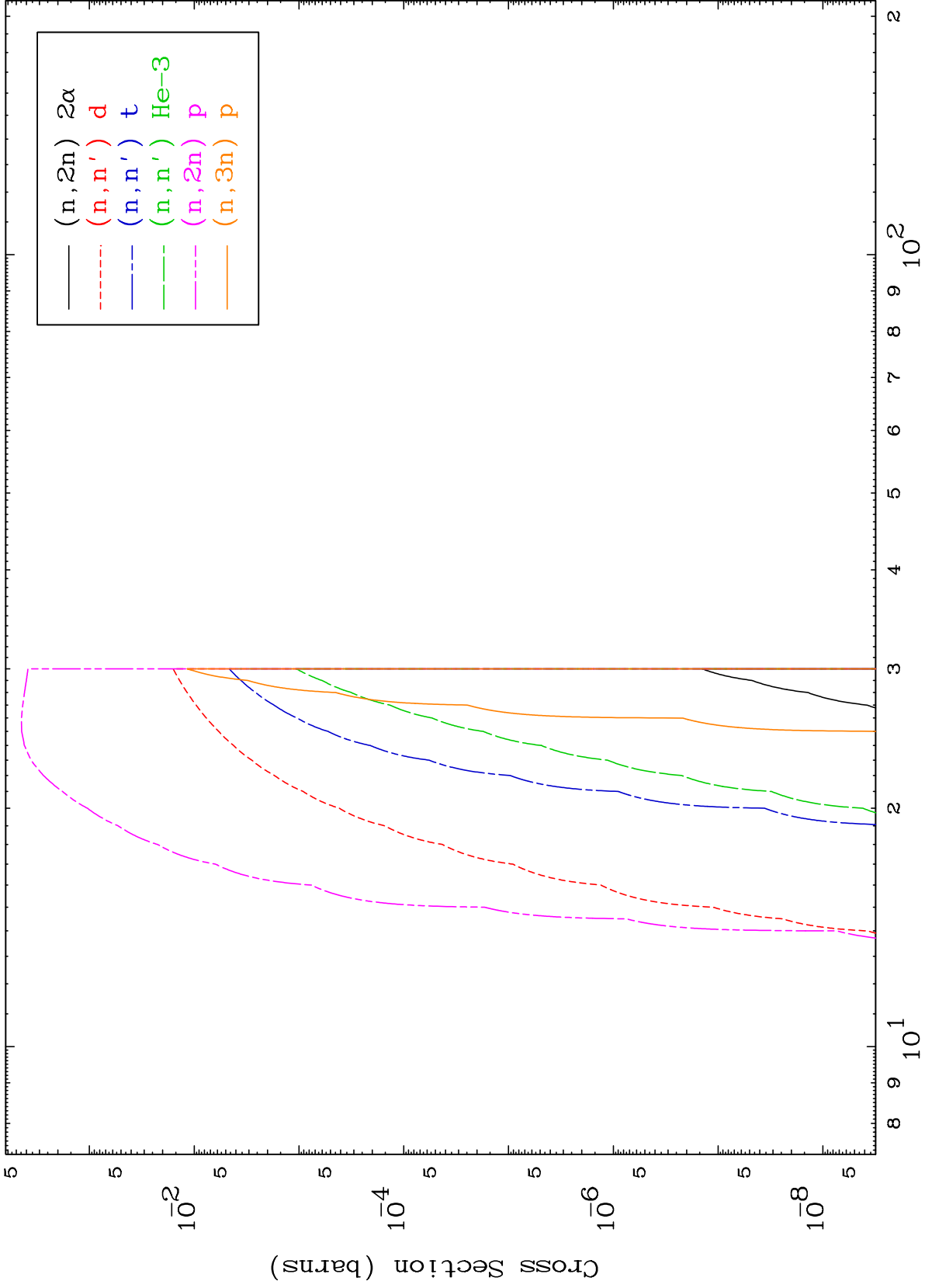


MAT 6304

Neutron Production
293 Kelvin Cross Sections

63-Eu-144

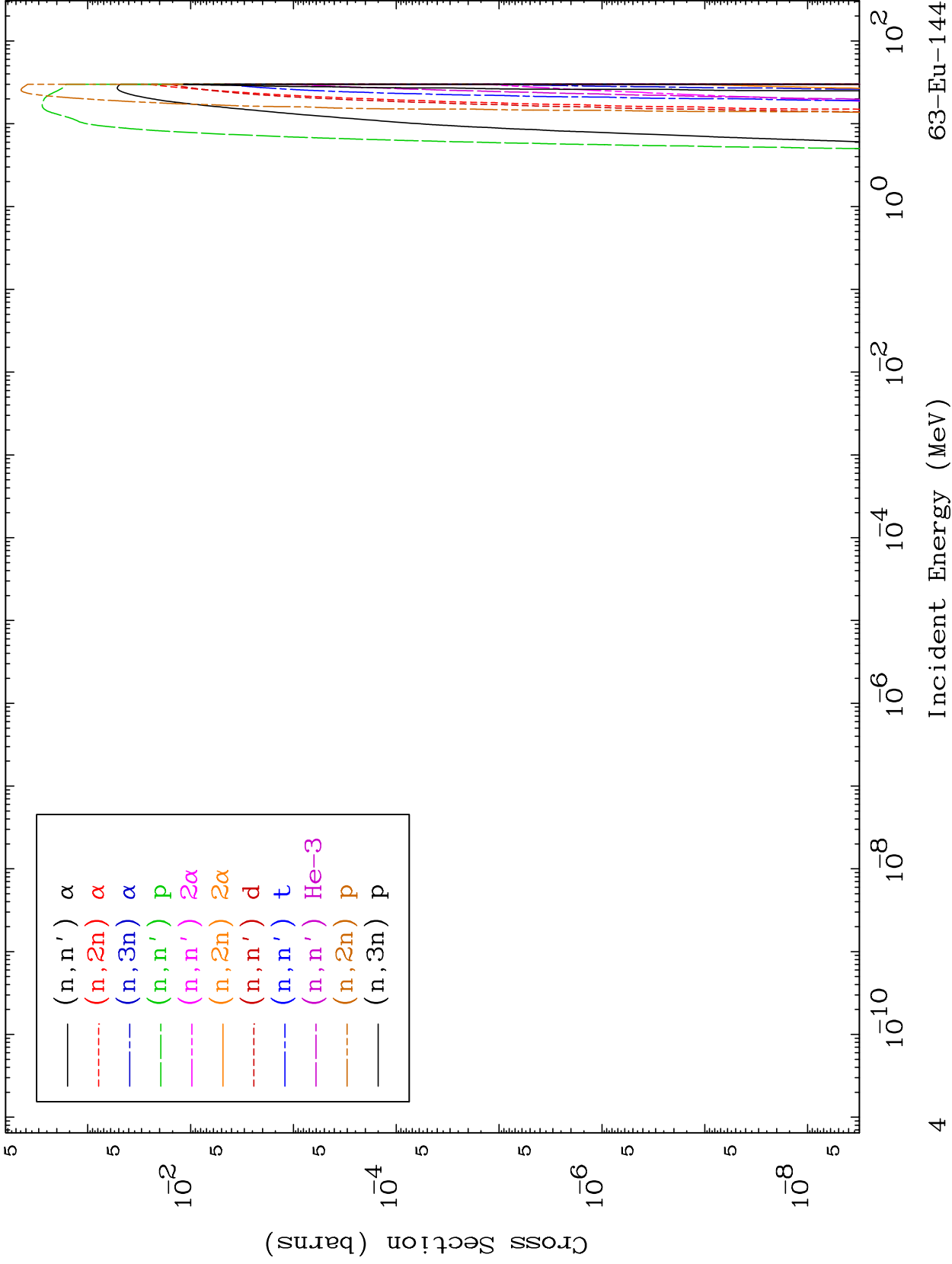




MAT 6304

Charged Particle
293 Kelvin Cross Sections

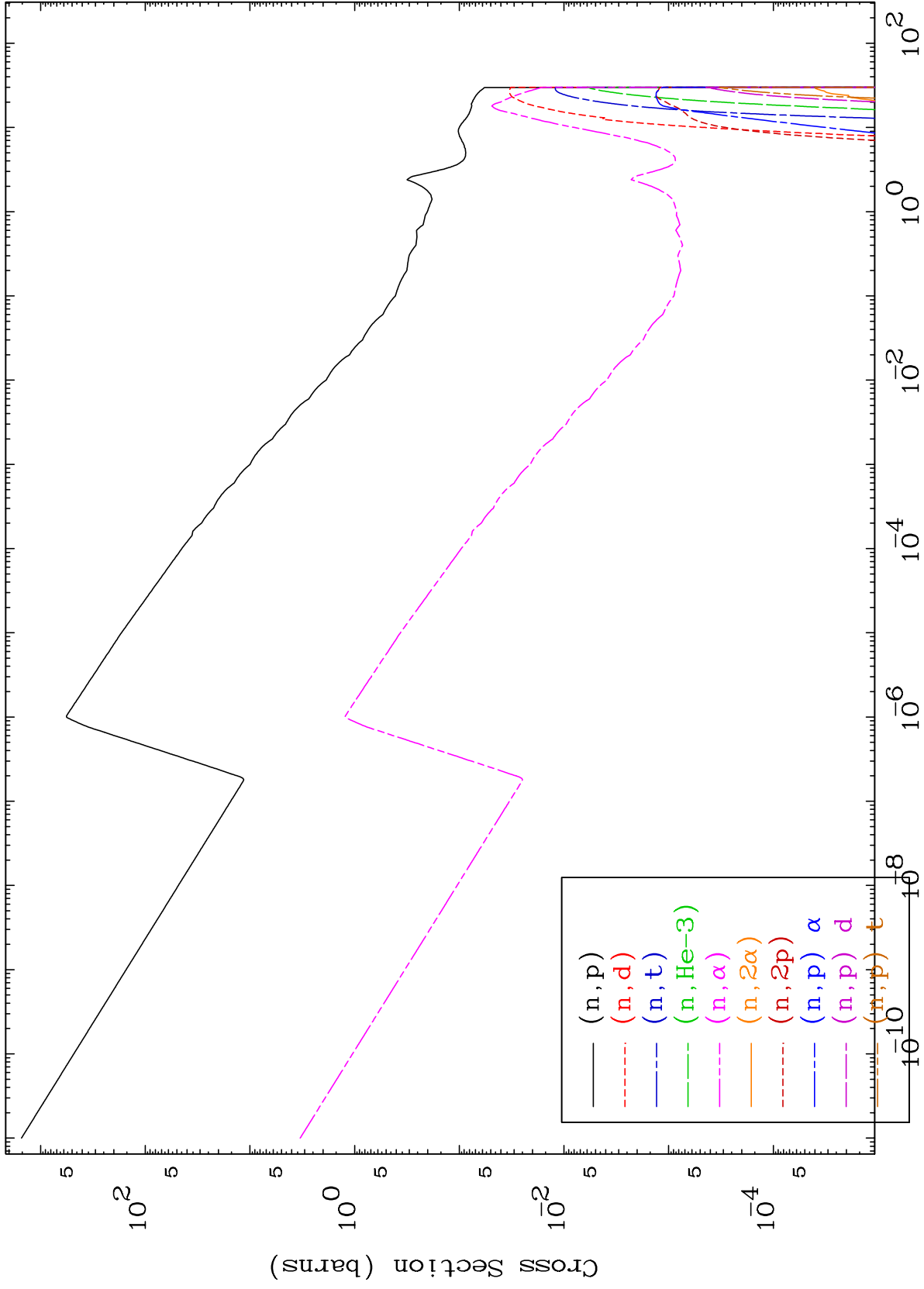
63-Eu-144



MAT 6304

Charged Particle
293 Kelvin Cross Sections

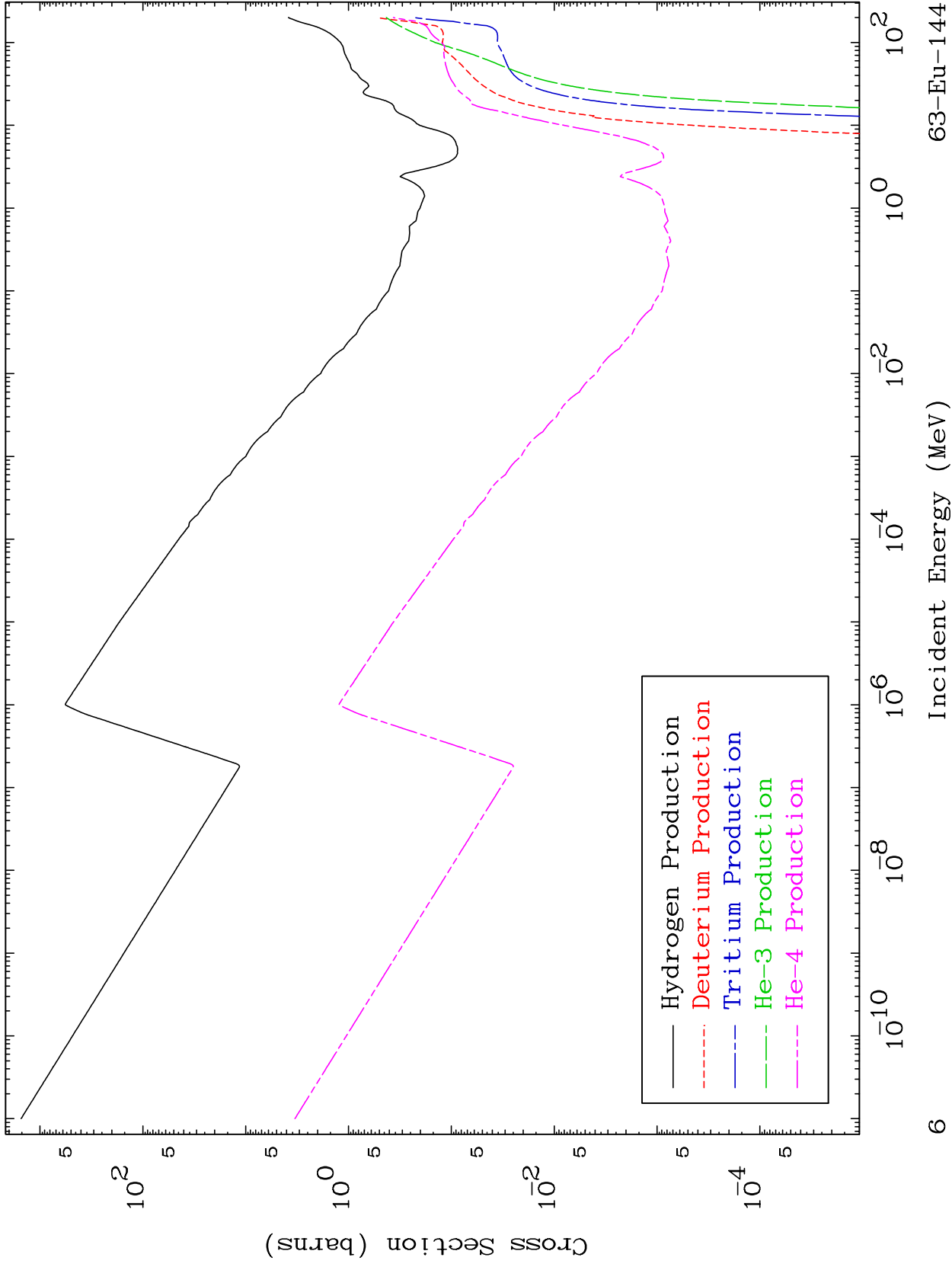
63-Eu-144



MAT 6304

Particle Production
293 Kelvin Cross Sections

63-Eu-144

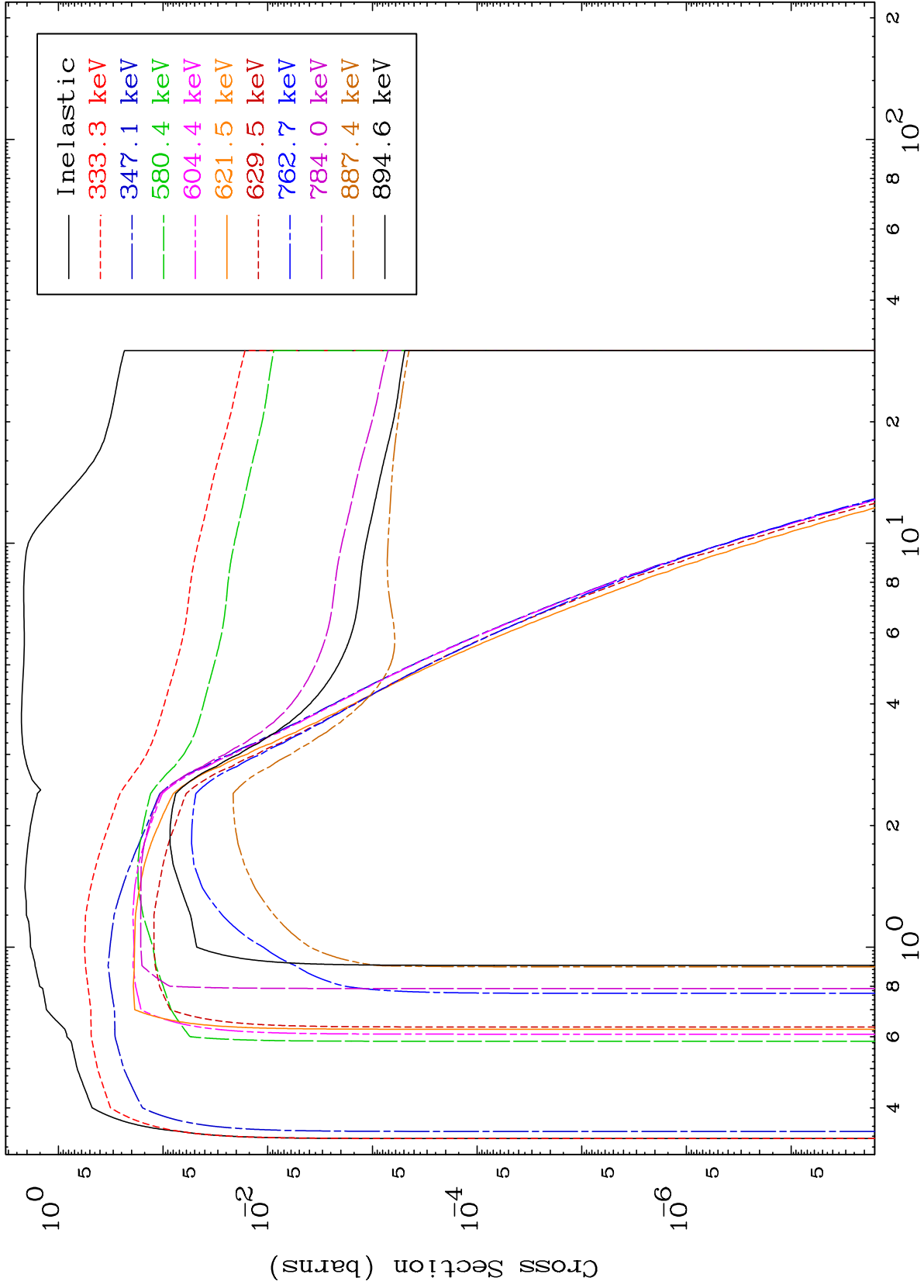


MAT 6304

(n,n') Level

63-Eu-144

293 Kelvin Cross Sections



7

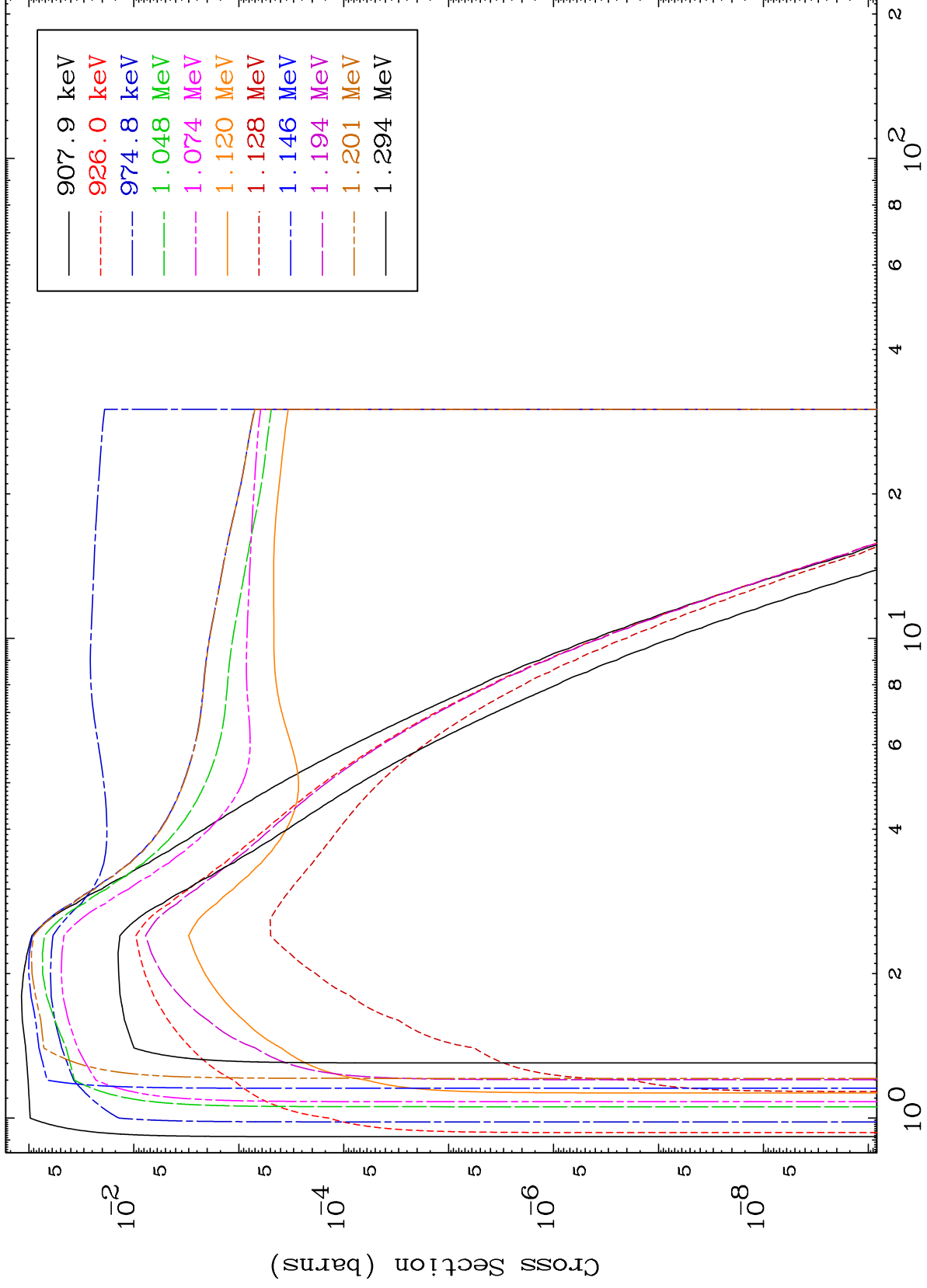
Incident Energy (MeV)

63-Eu-144

MAT 6304

(n,n') Level
293 Kelvin Cross Sections

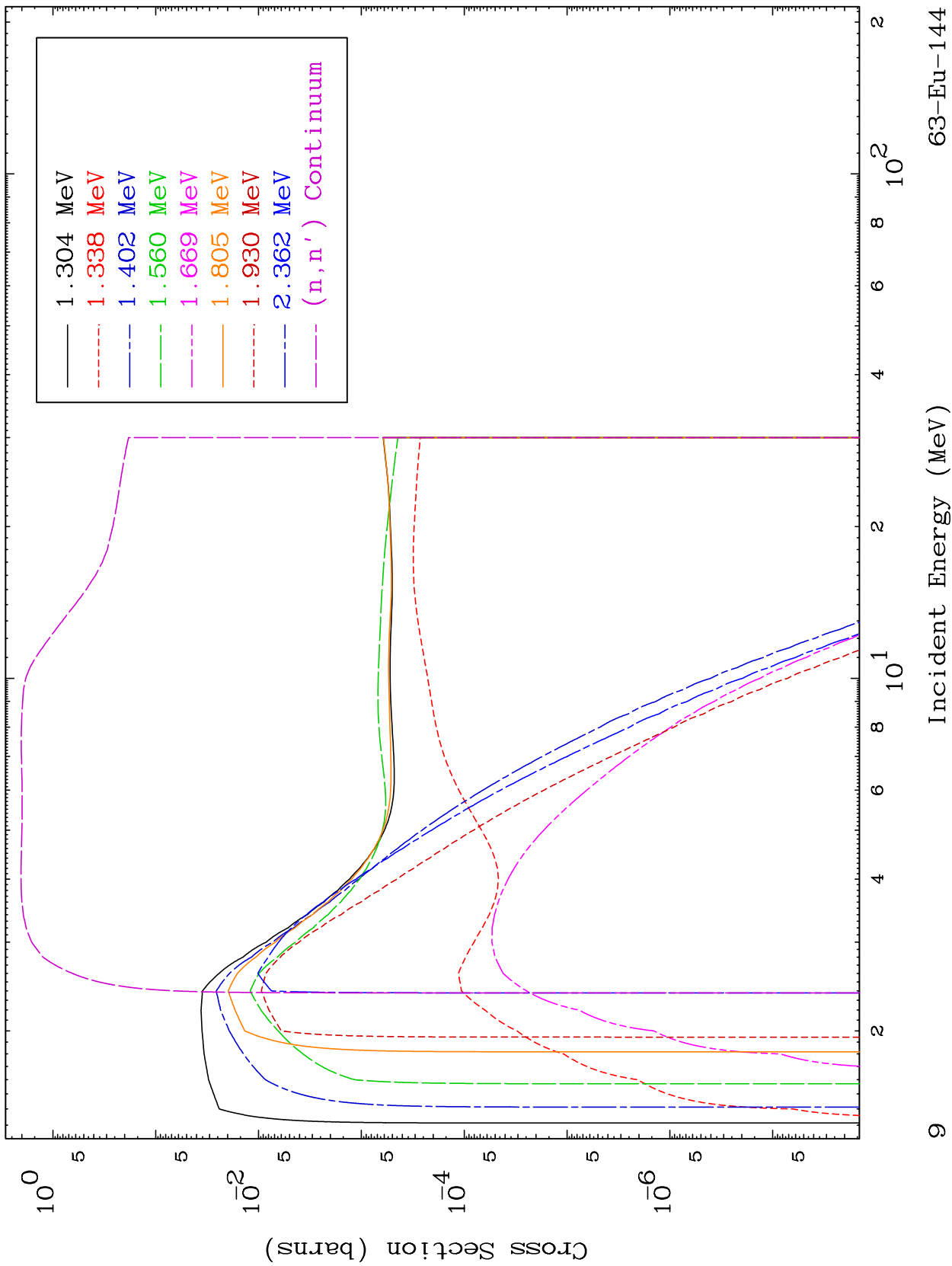
63-Eu-144



Incident Energy (MeV)

63-Eu-144

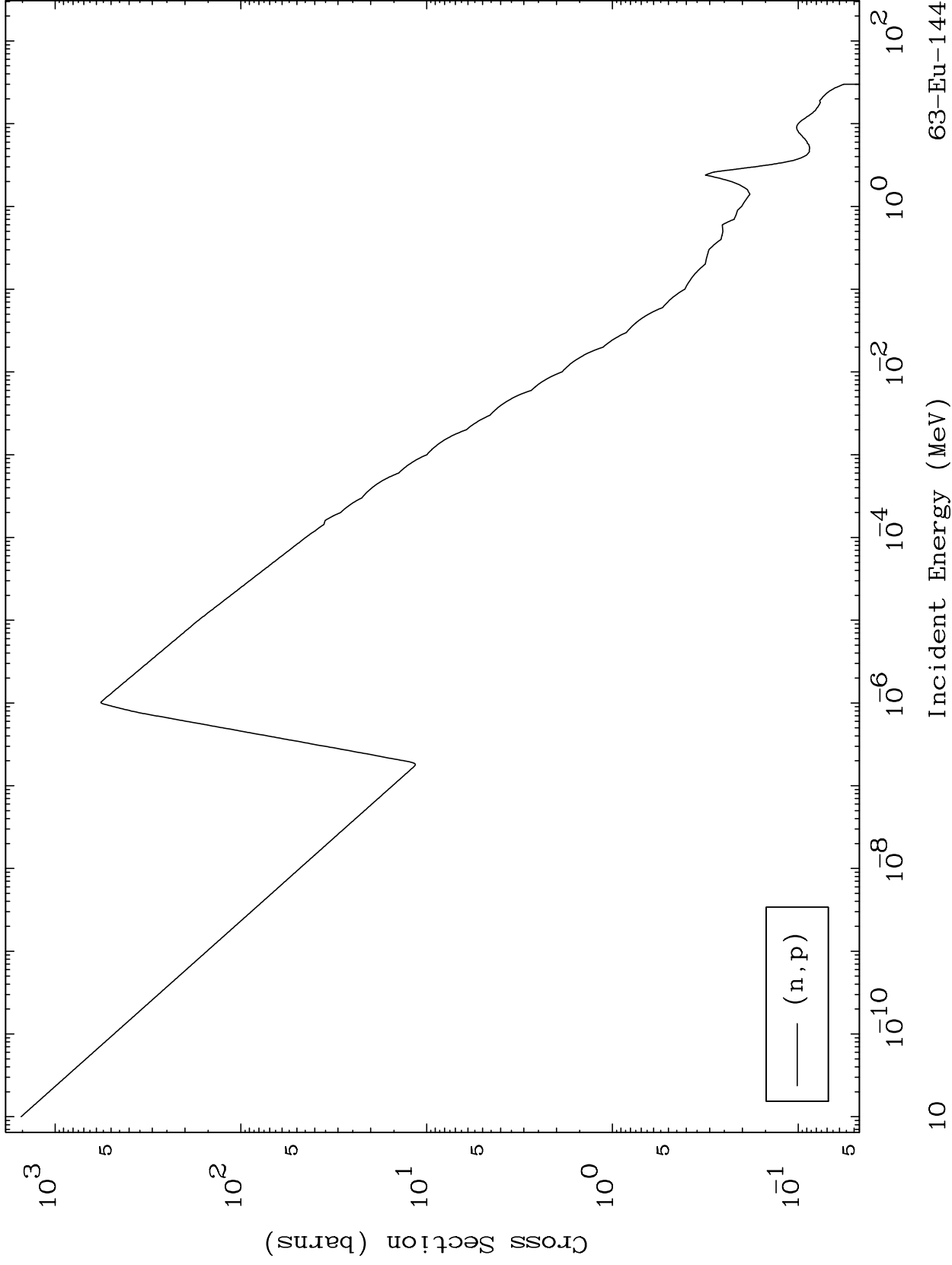
293 Kelvin Cross Sections



MAT 6304

(n,p) Levels
293 Kelvin Cross Sections

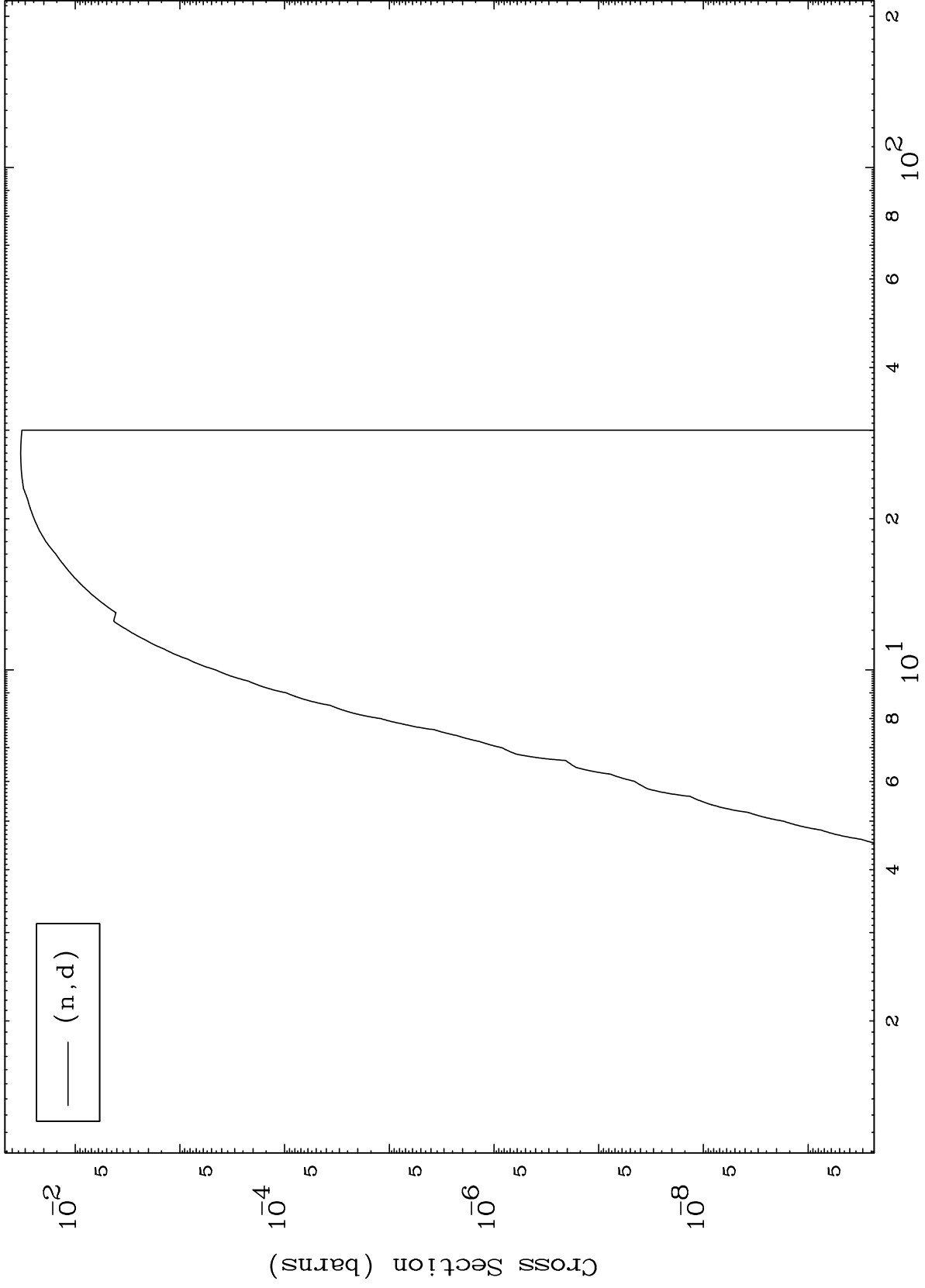
63-Eu-144



MAT 6304

(n,d) Levels
293 Kelvin Cross Sections

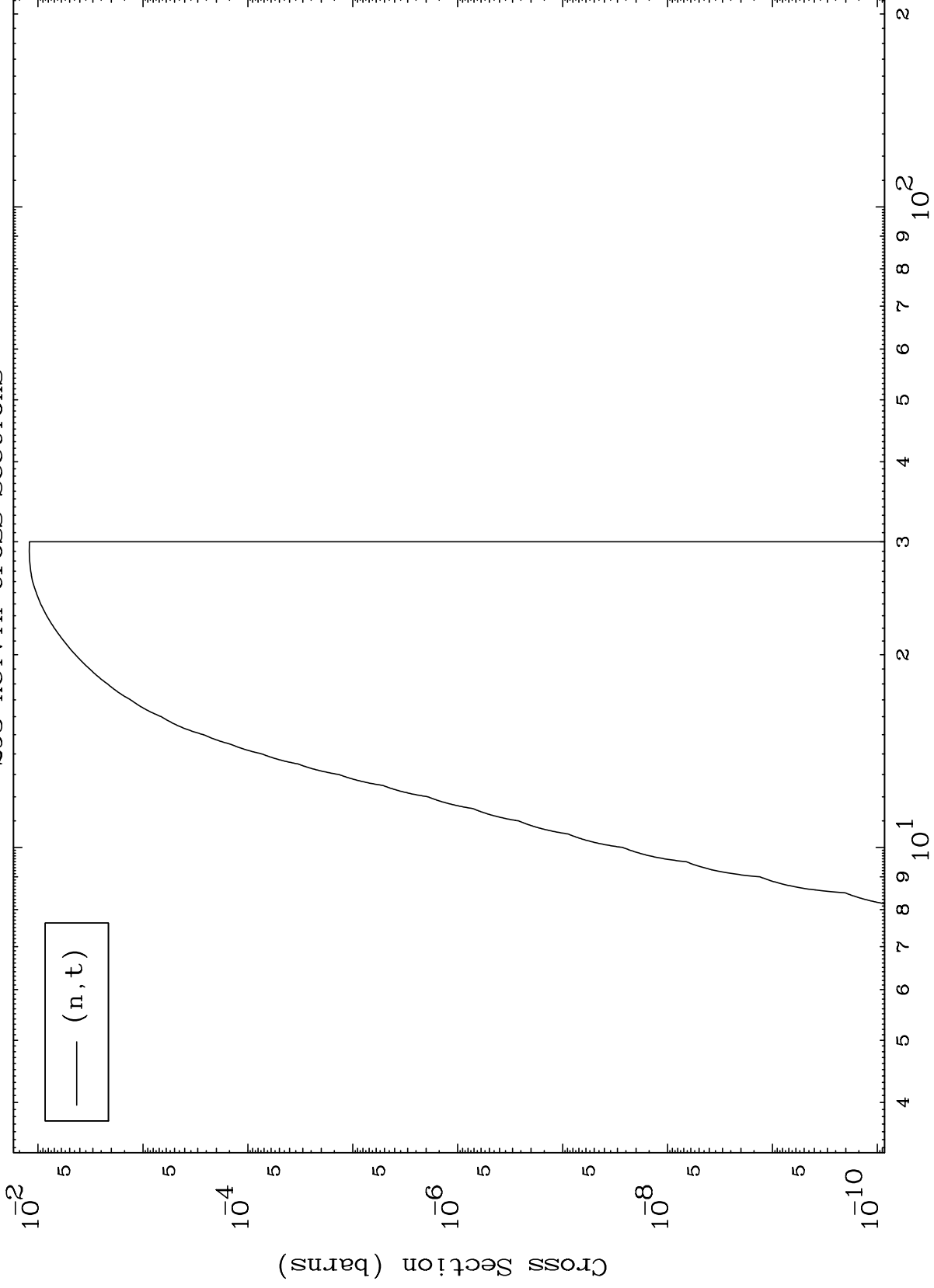
63-Eu-144



MAT 6304

(n,t) Levels
293 Kelvin Cross Sections

63-Eu-144



(n,t)

12

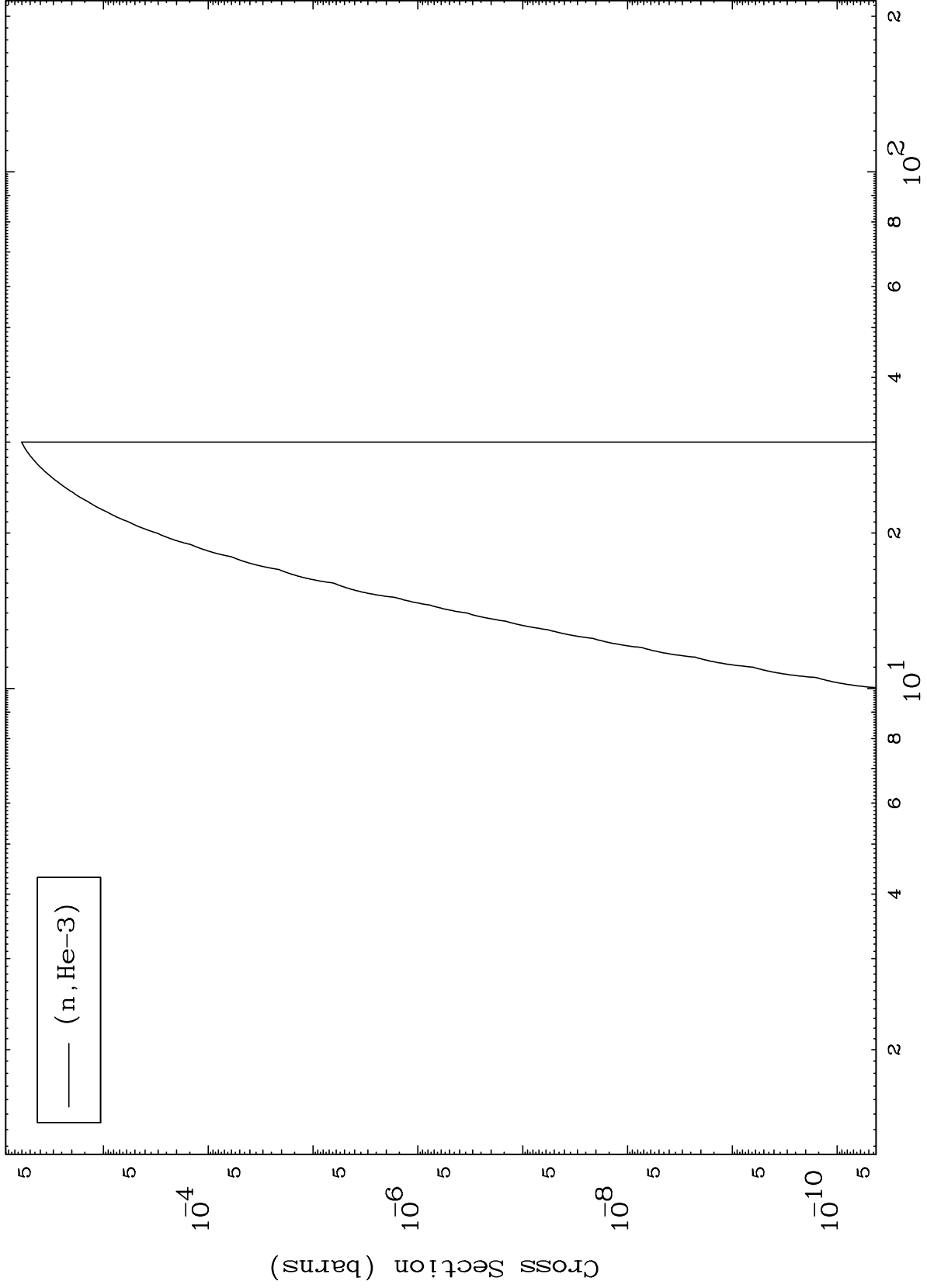
Incident Energy (MeV)

63-Eu-144

MAT 6304

(n,He3) Levels
293 Kelvin Cross Sections

63-Eu-144



13

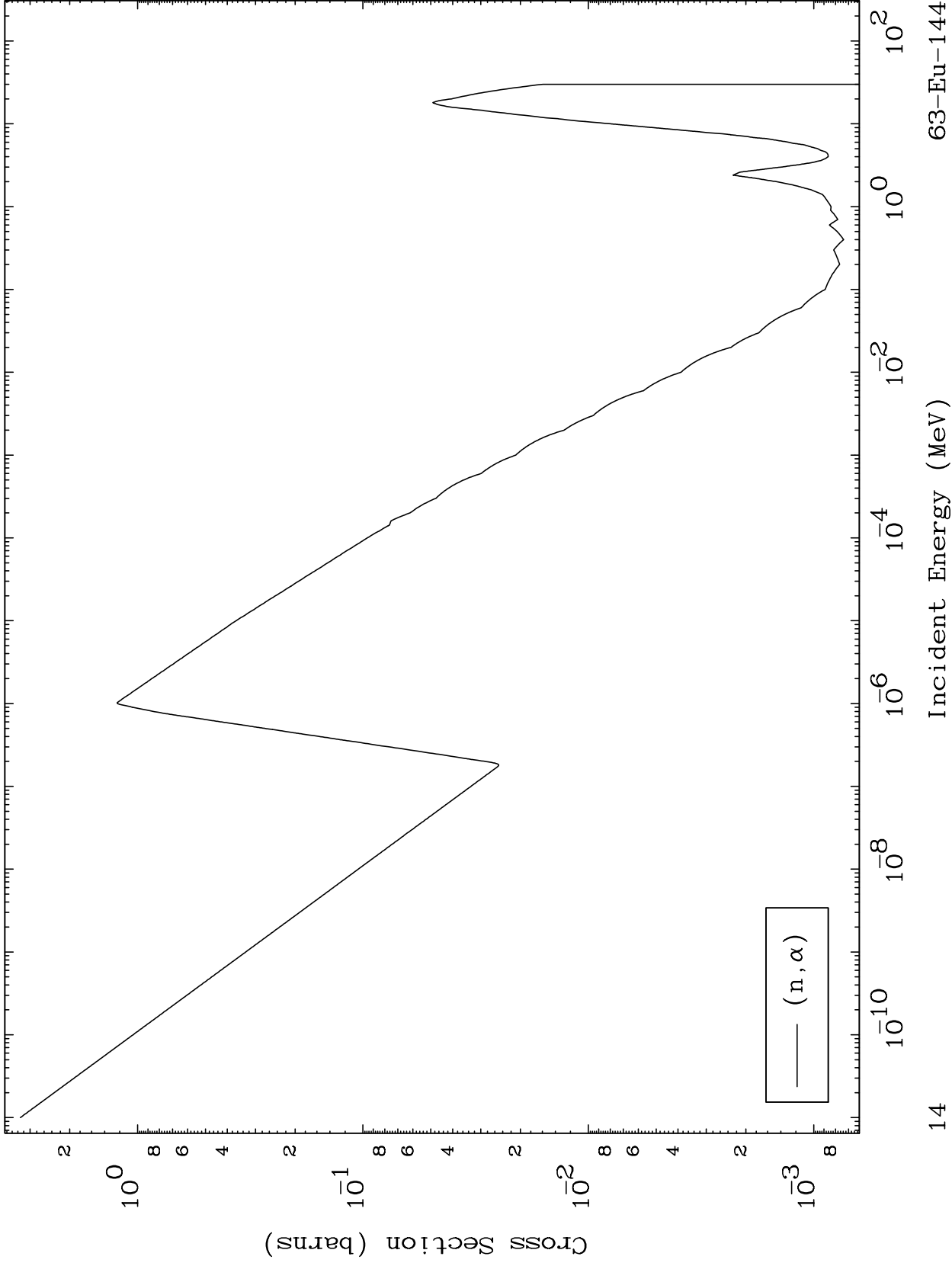
Incident Energy (MeV)

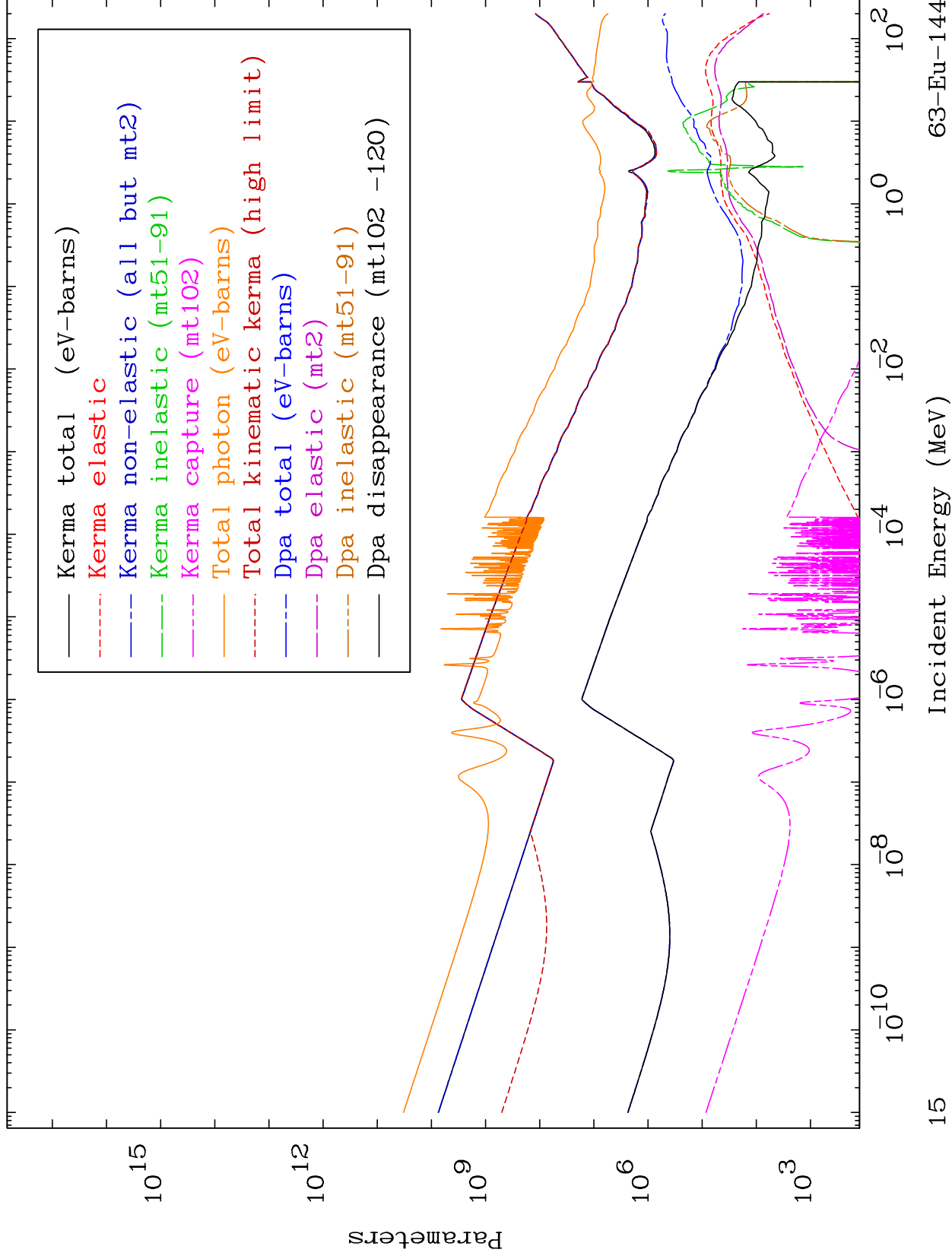
63-Eu-144

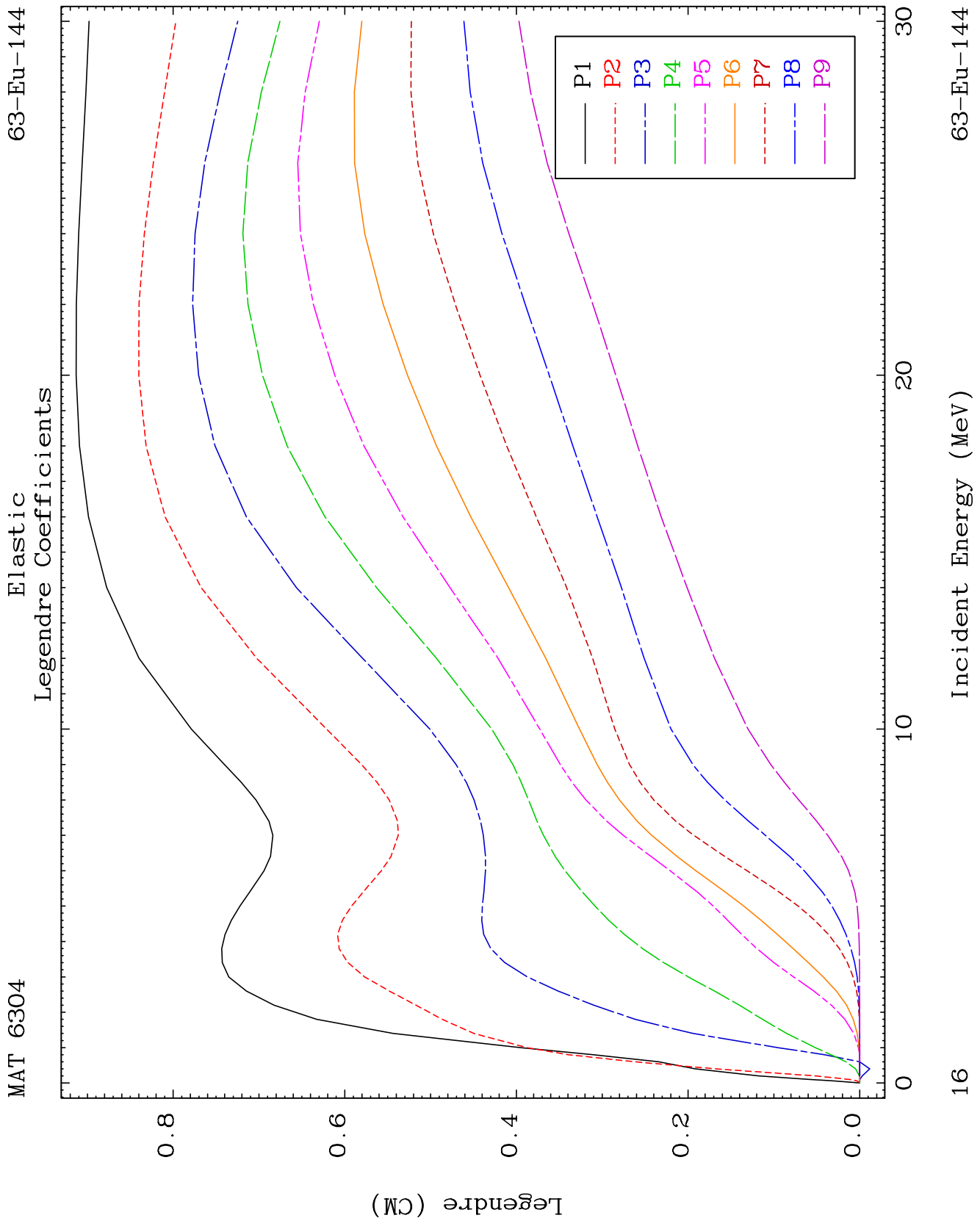
MAT 6304

(n, α) Levels
293 Kelvin Cross Sections

63-Eu-144



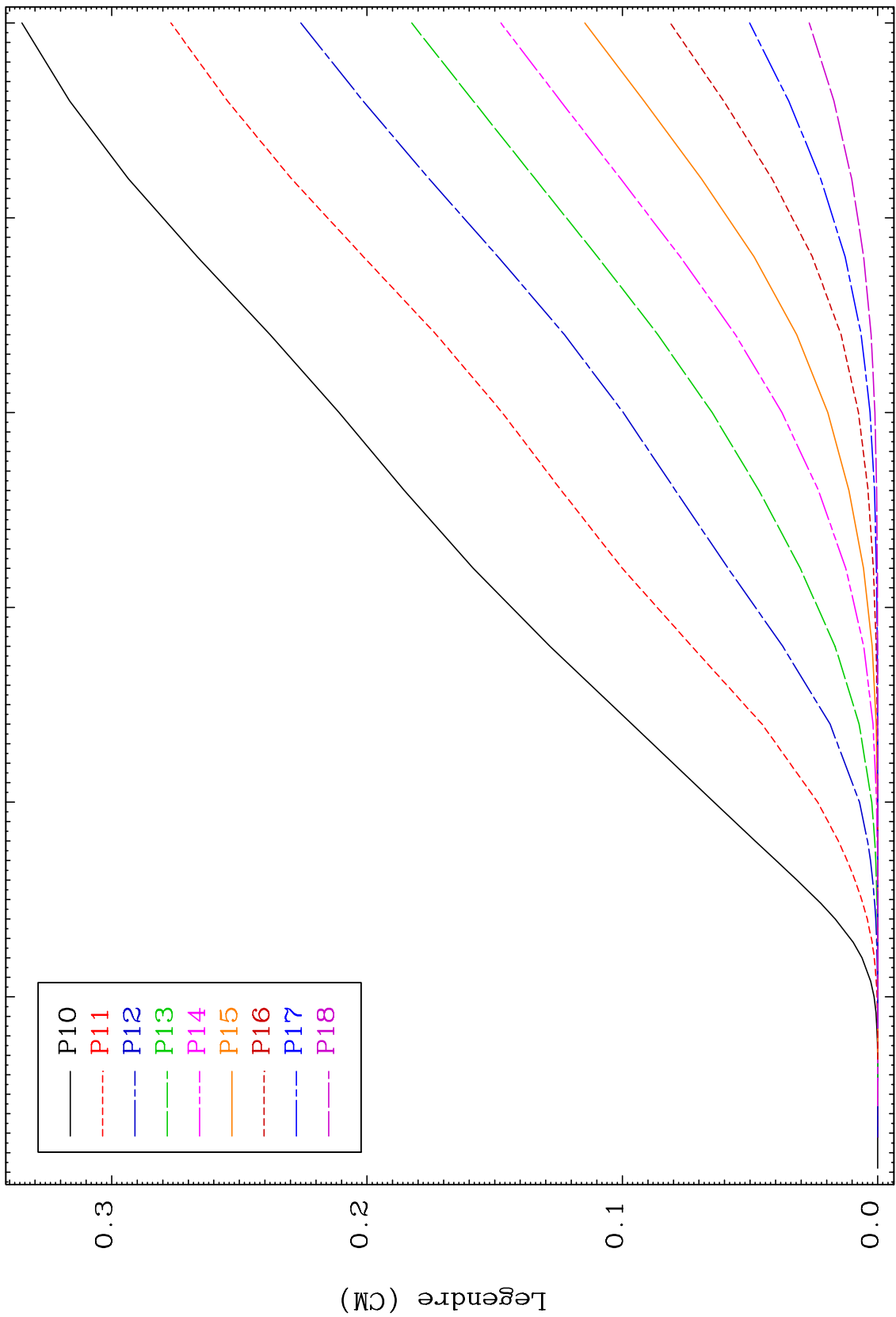




MAT 6304

Elastic Legendre Coefficients

63-Eu-144



17

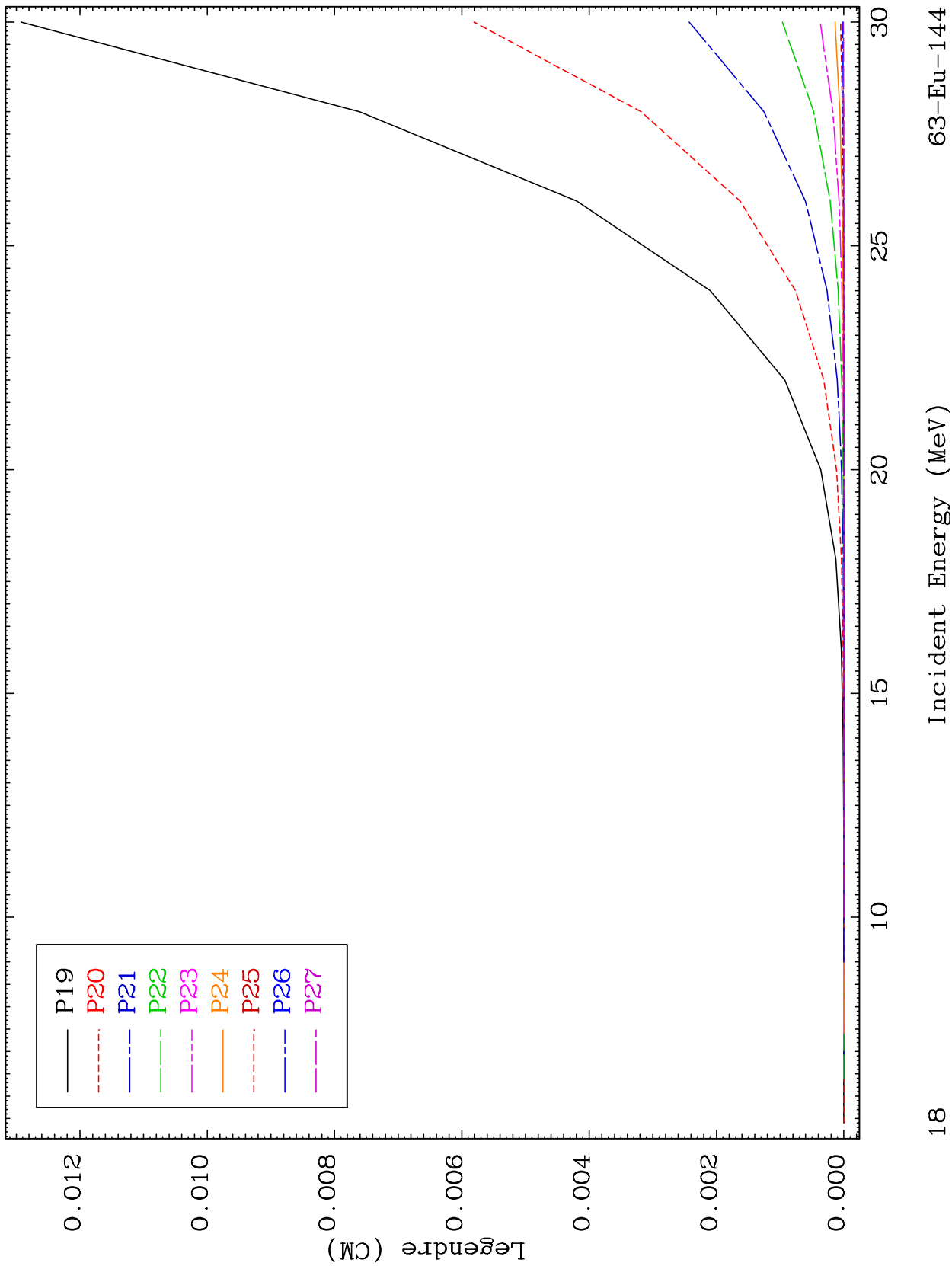
Incident Energy (MeV)

63-Eu-144

MAT 6304

Elastic Legendre Coefficients

63-Eu-144



18

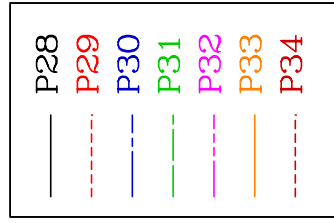
Incident Energy (MeV)

63-Eu-144

MAT 6304

Elastic
Legendre Coefficients

63-Eu-144



$\times 10^{-6}$

1.5

Legendre (CM)

1.0

0.5

0.0

15

20

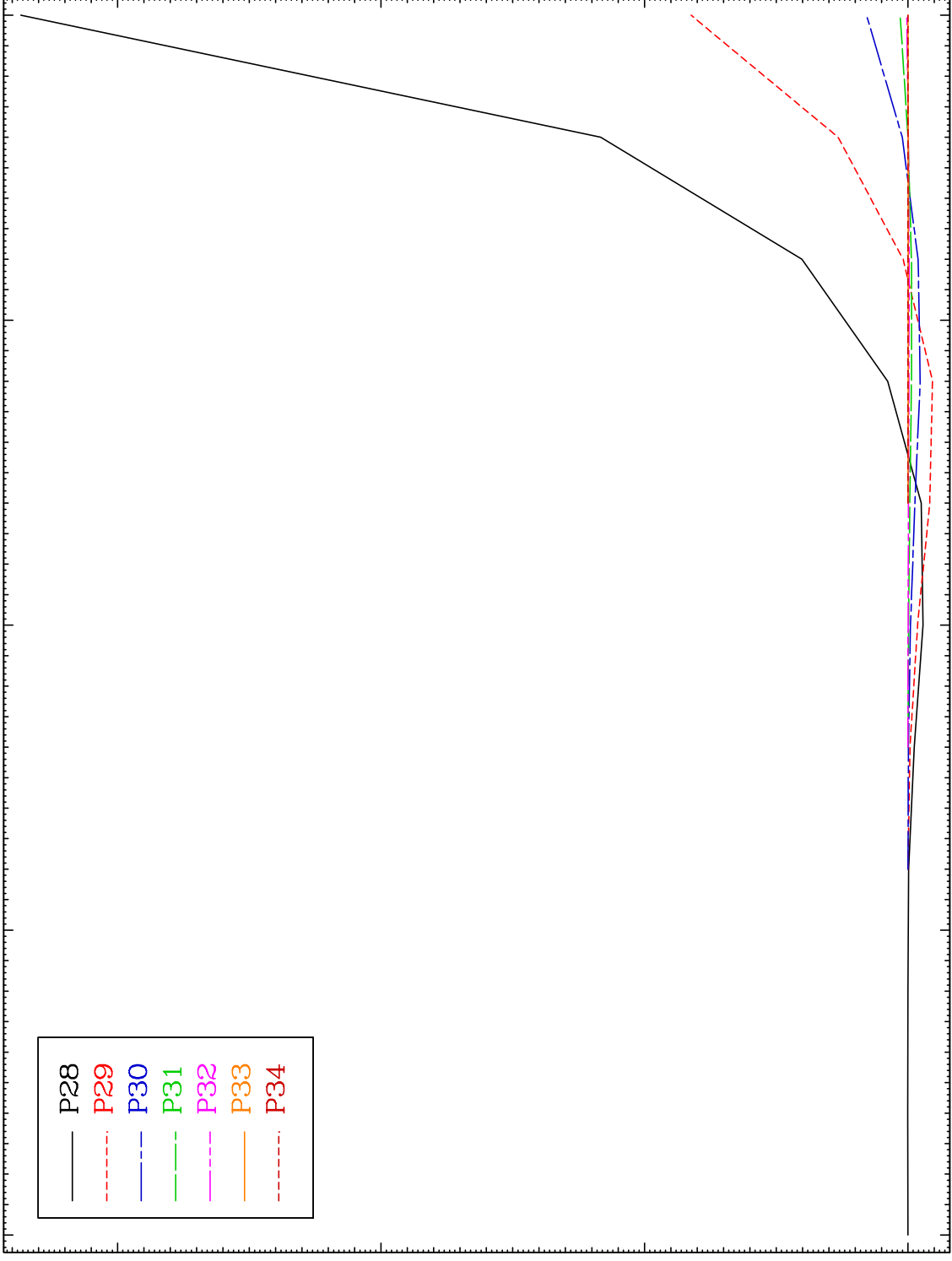
25

30

19

Incident Energy (MeV)

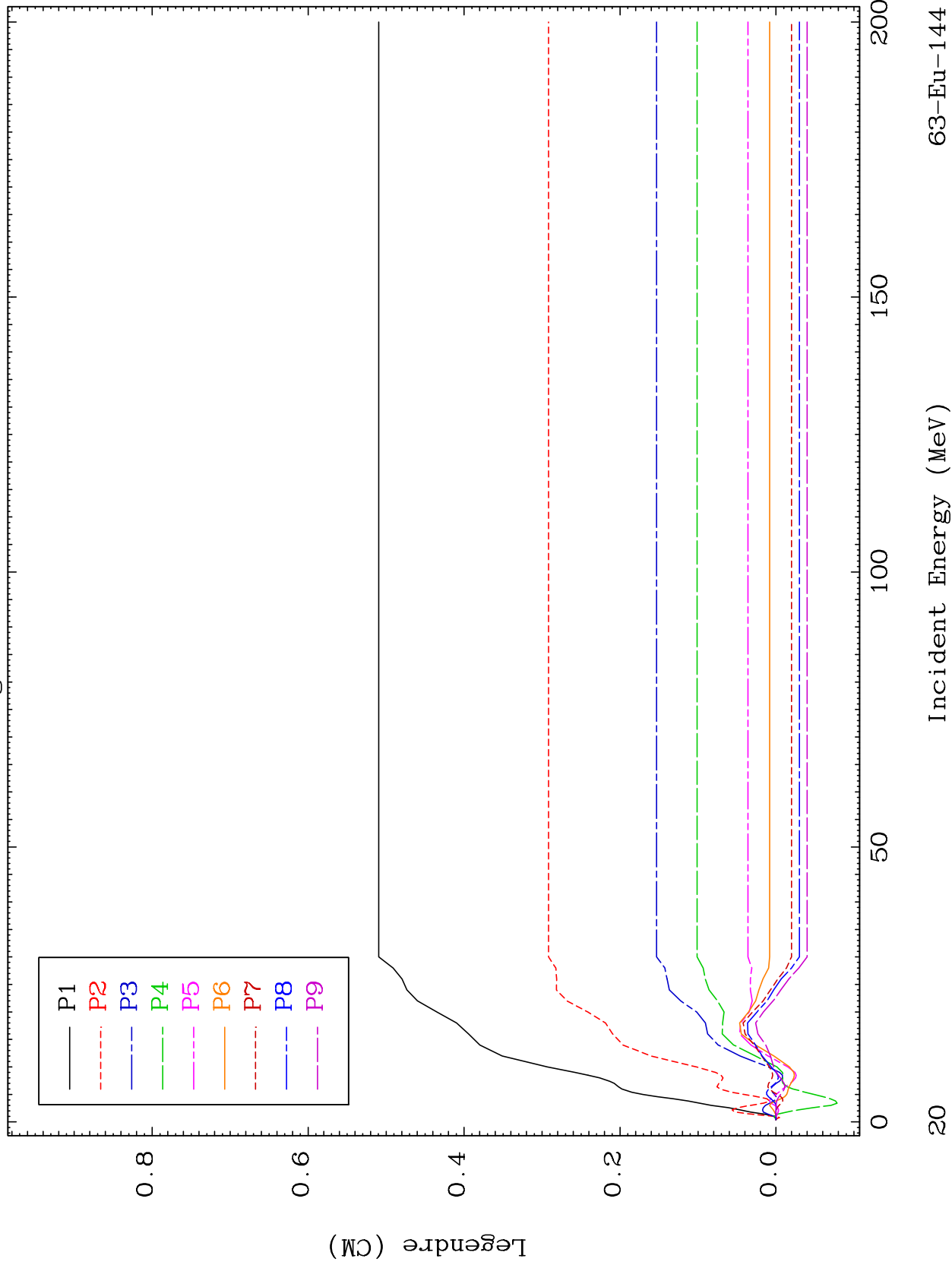
63-Eu-144



MAT 6304

333.3 keV (n,n') Level
Legendre Coefficients

63-Eu-144



63-Eu-144

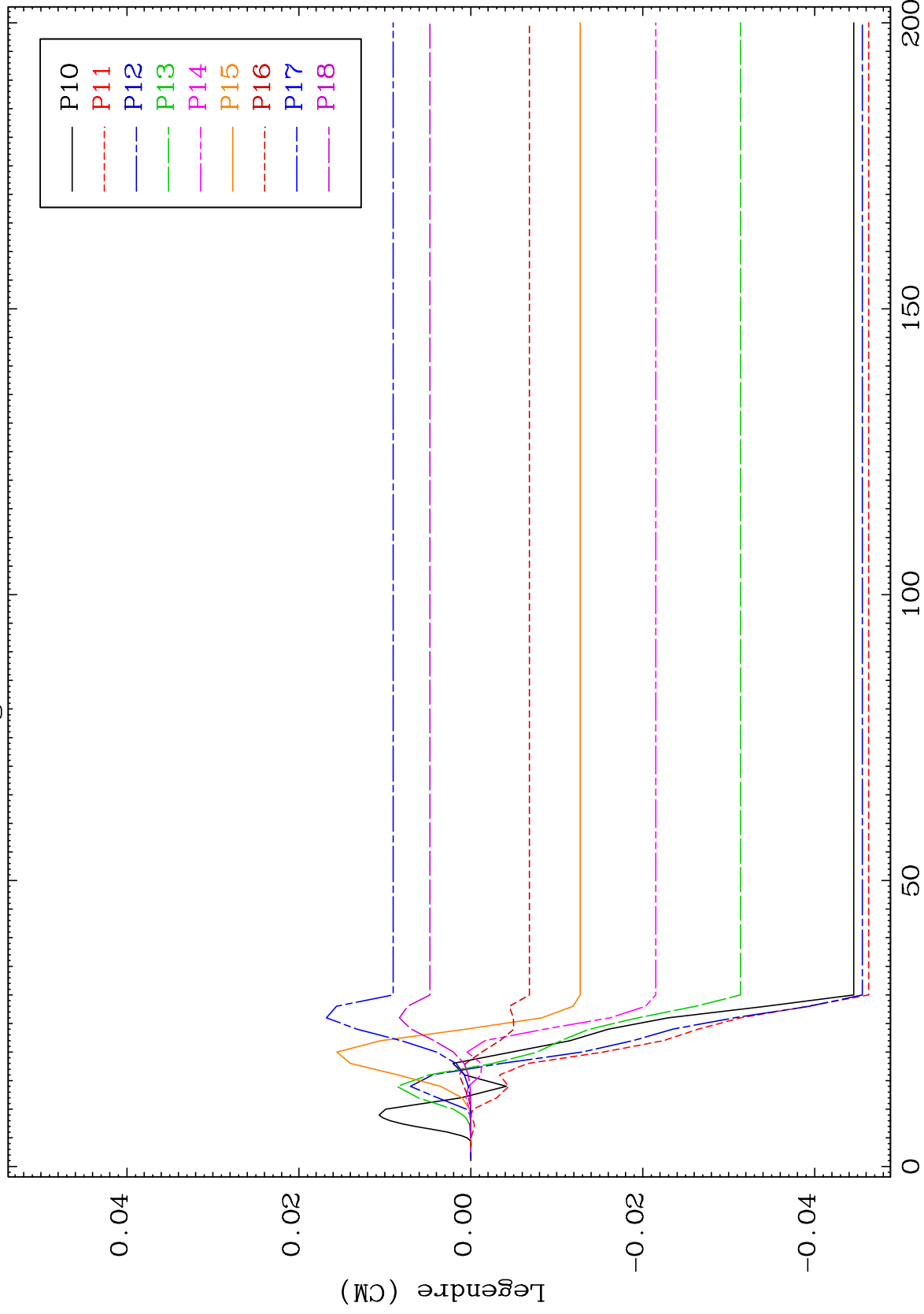
Incident Energy (MeV)

0

MAT 6304

333.3 keV (n,n') Level
Legendre Coefficients

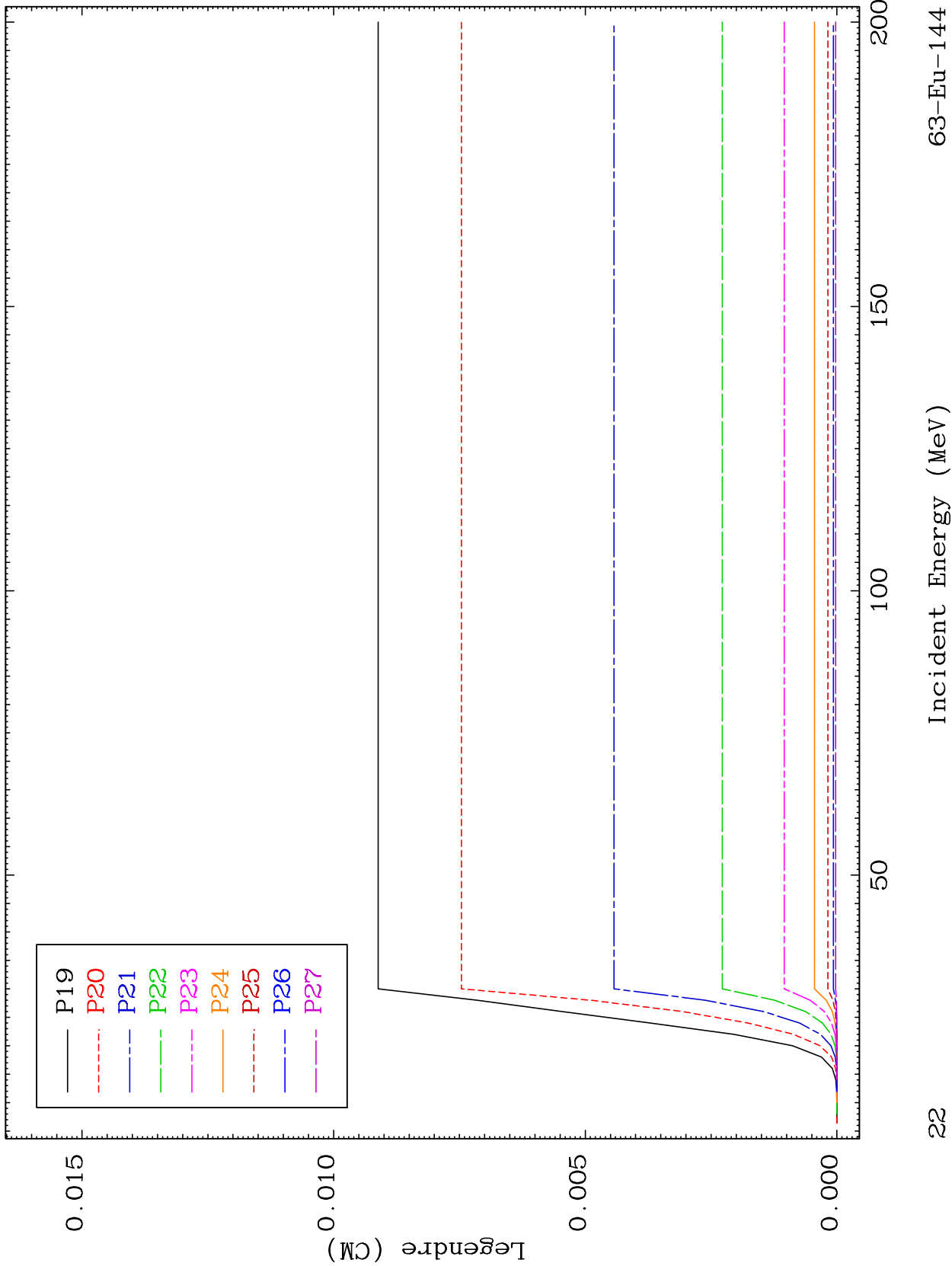
63-Eu-144



21

Incident Energy (MeV)

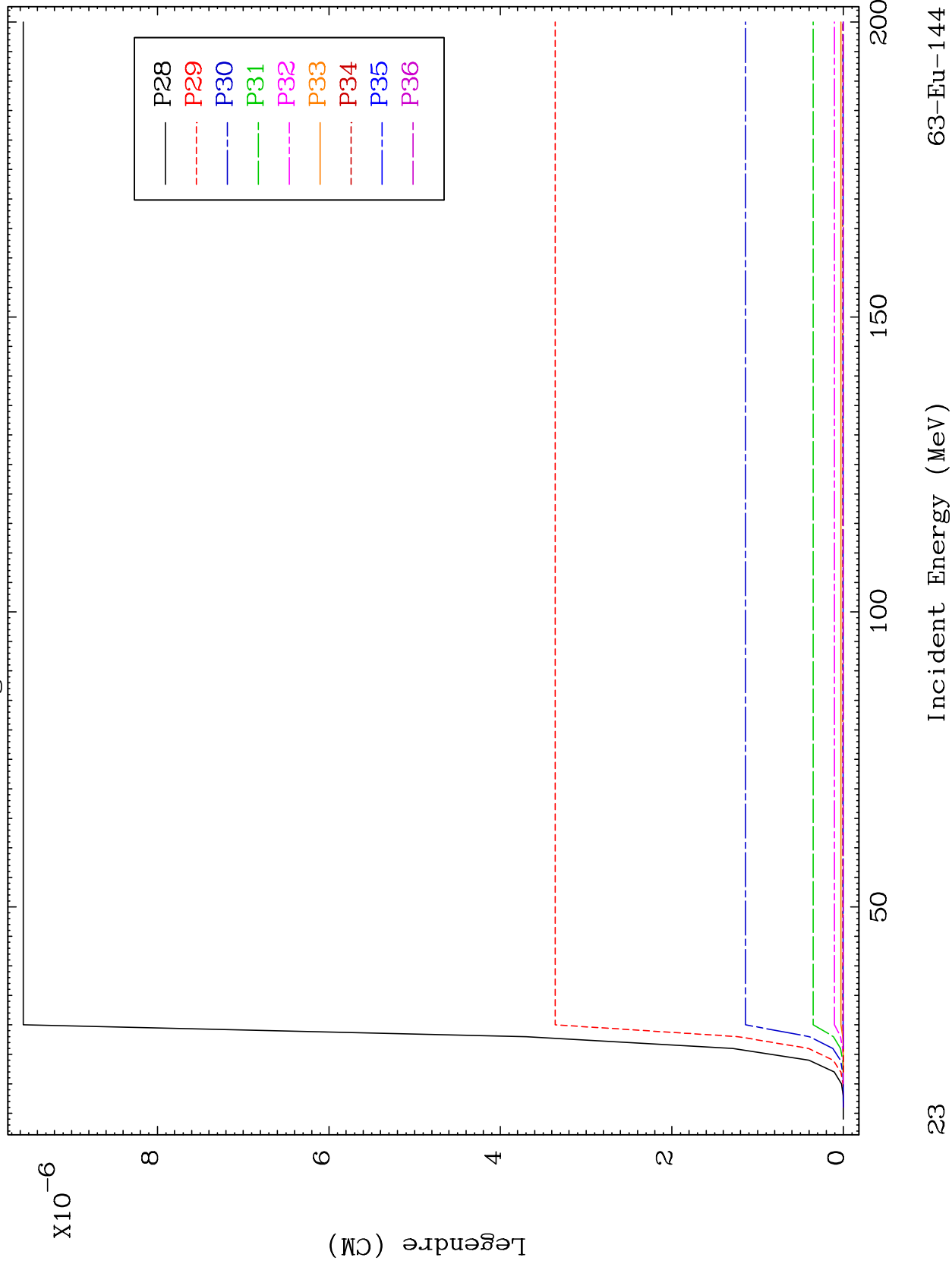
63-Eu-144



MAT 6304

333.3 keV (n, n') Level
Legendre Coefficients

63-Eu-144

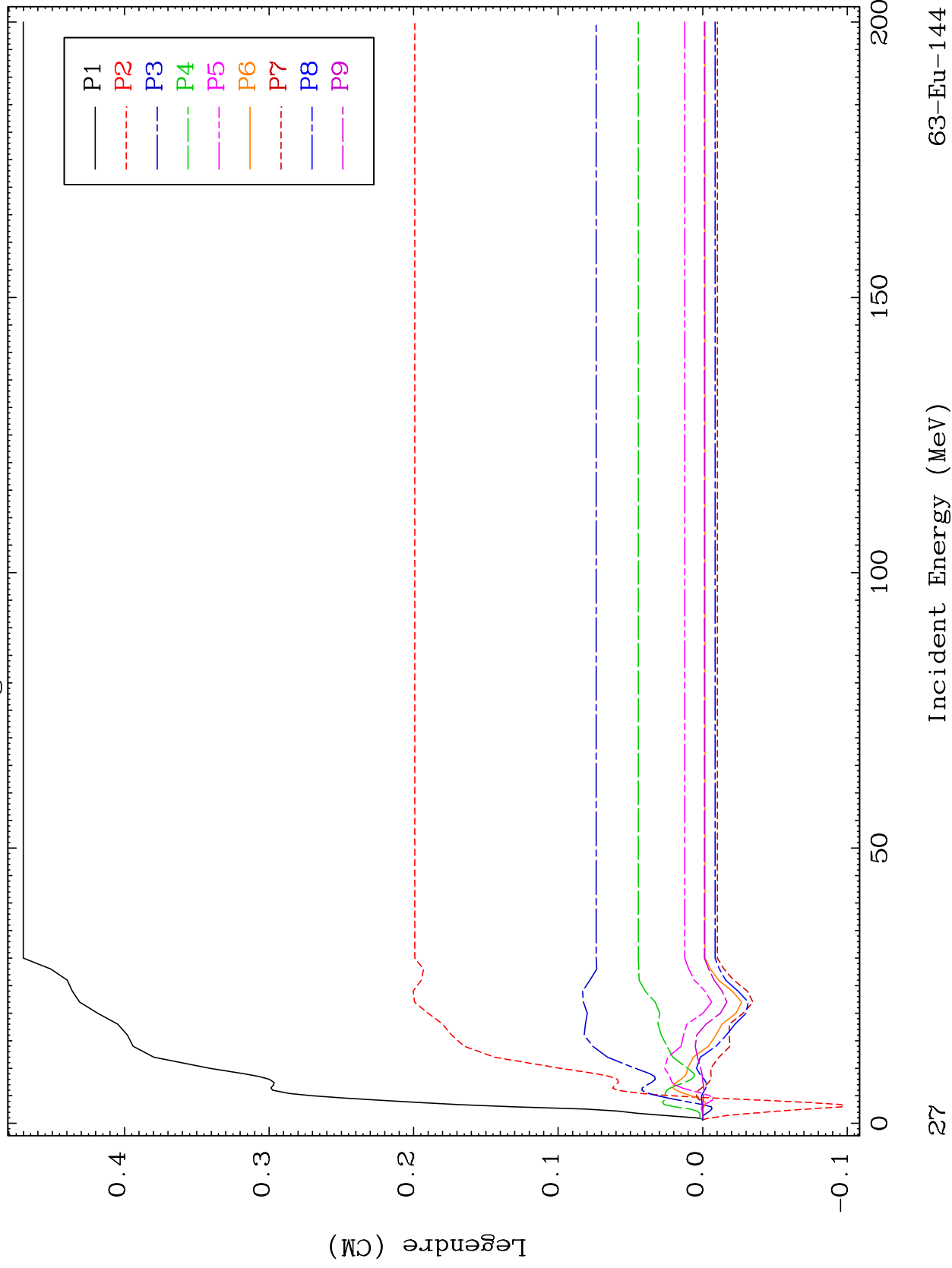


23

MAT 6304

580.4 keV (n,n') Level
Legendre Coefficients

63-Eu-144



63-Eu-144

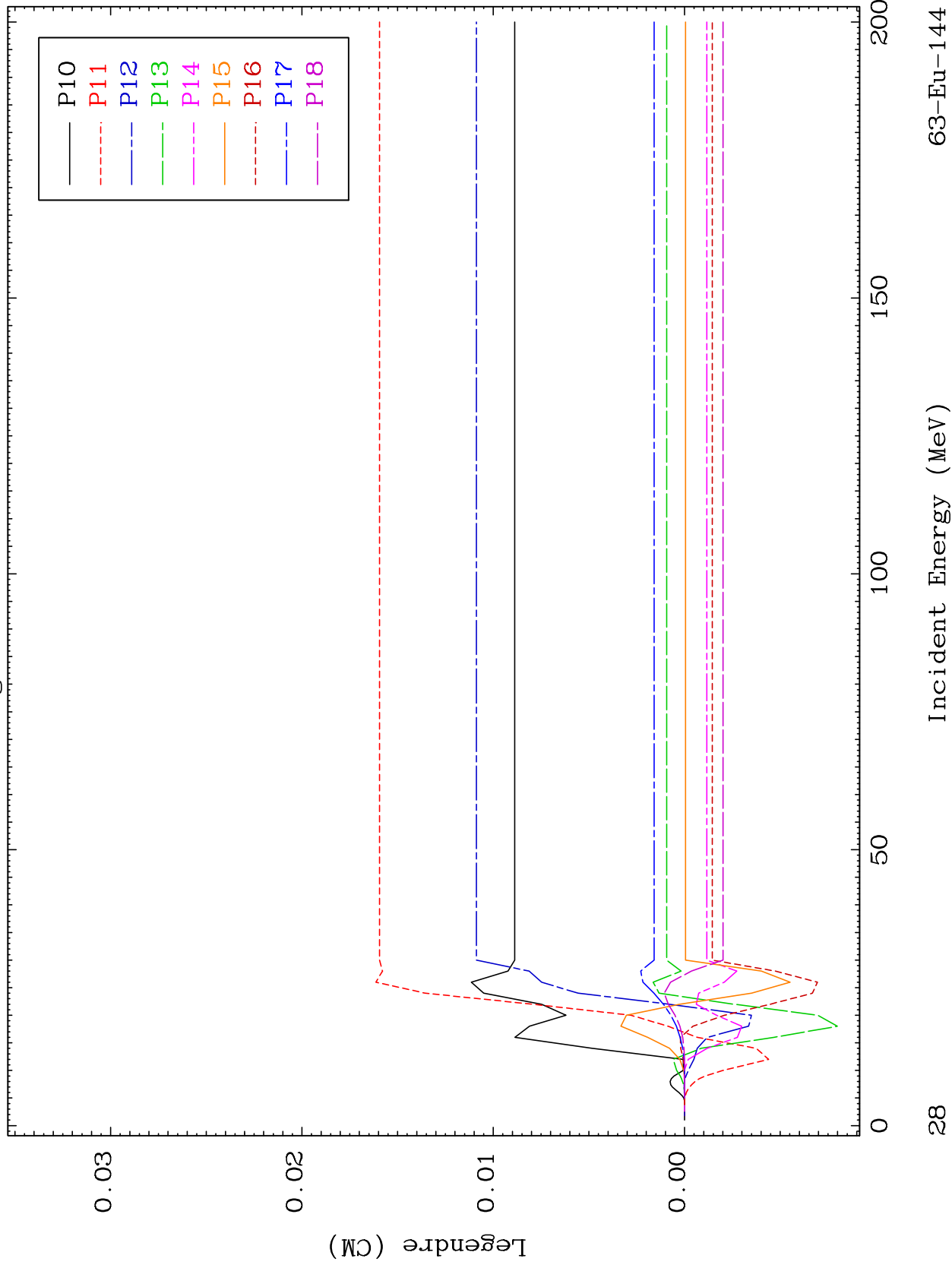
Incident Energy (MeV)

27

MAT 6304

580.4 keV (n,n') Level
Legendre Coefficients

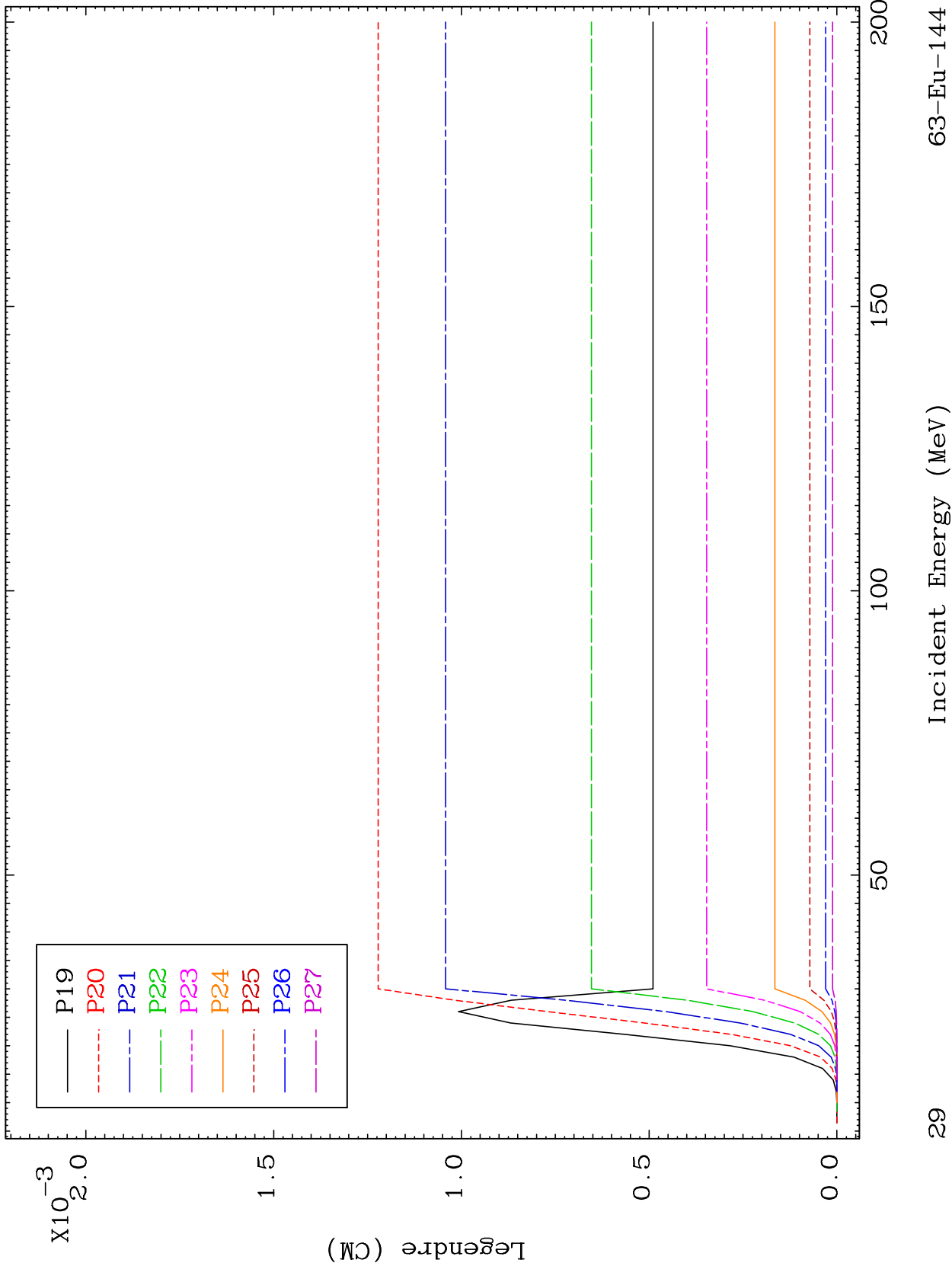
63-Eu-144

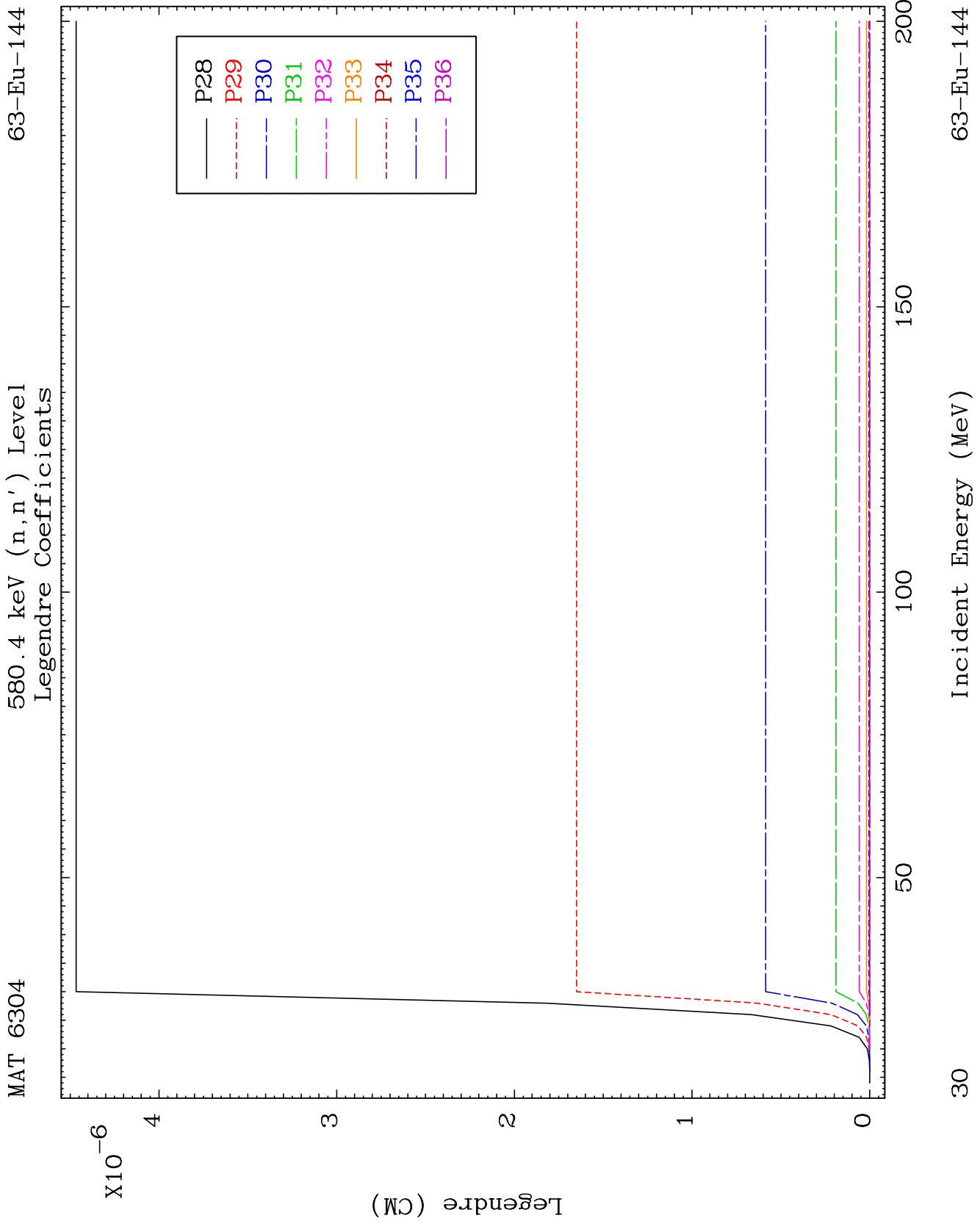


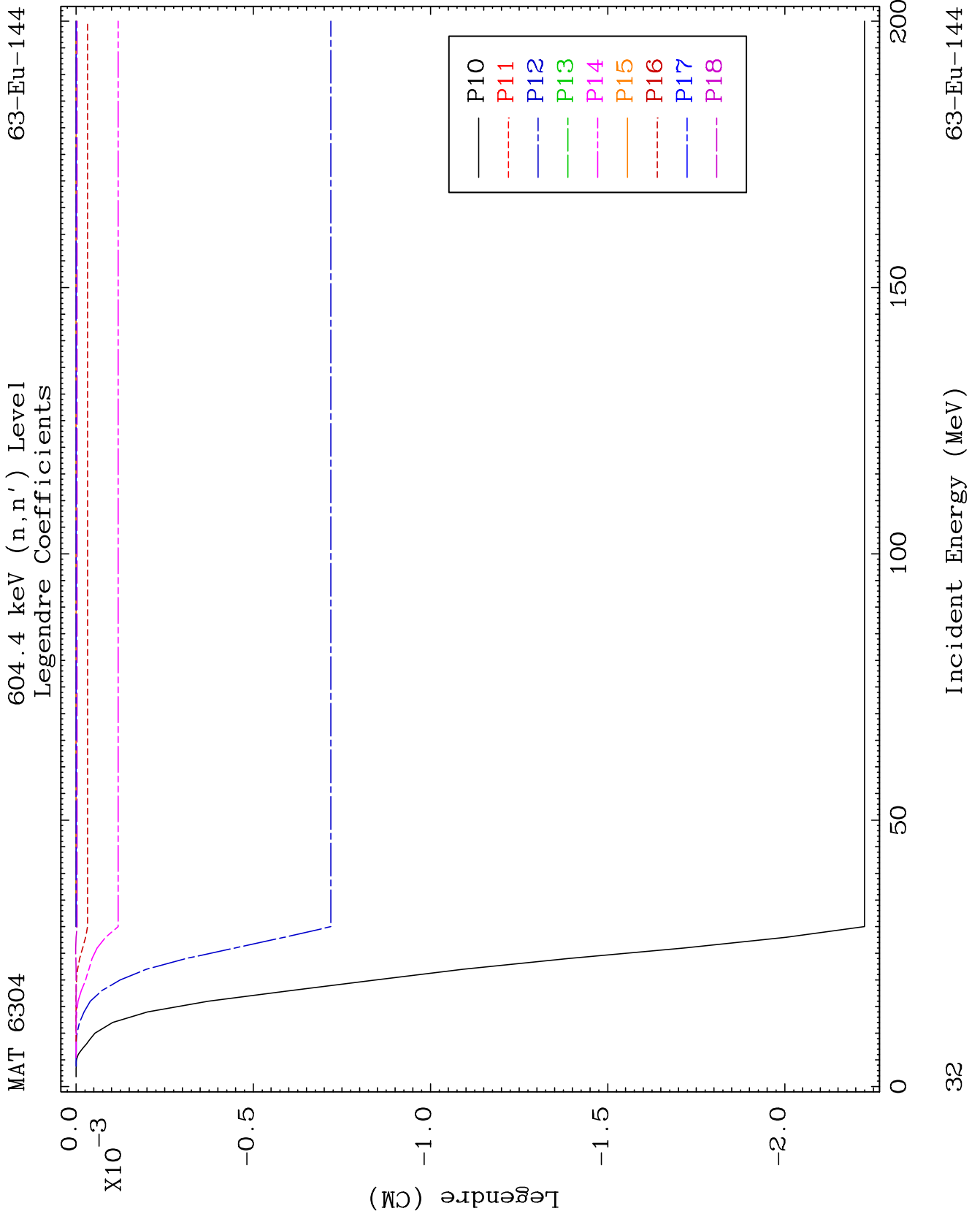
63-Eu-144

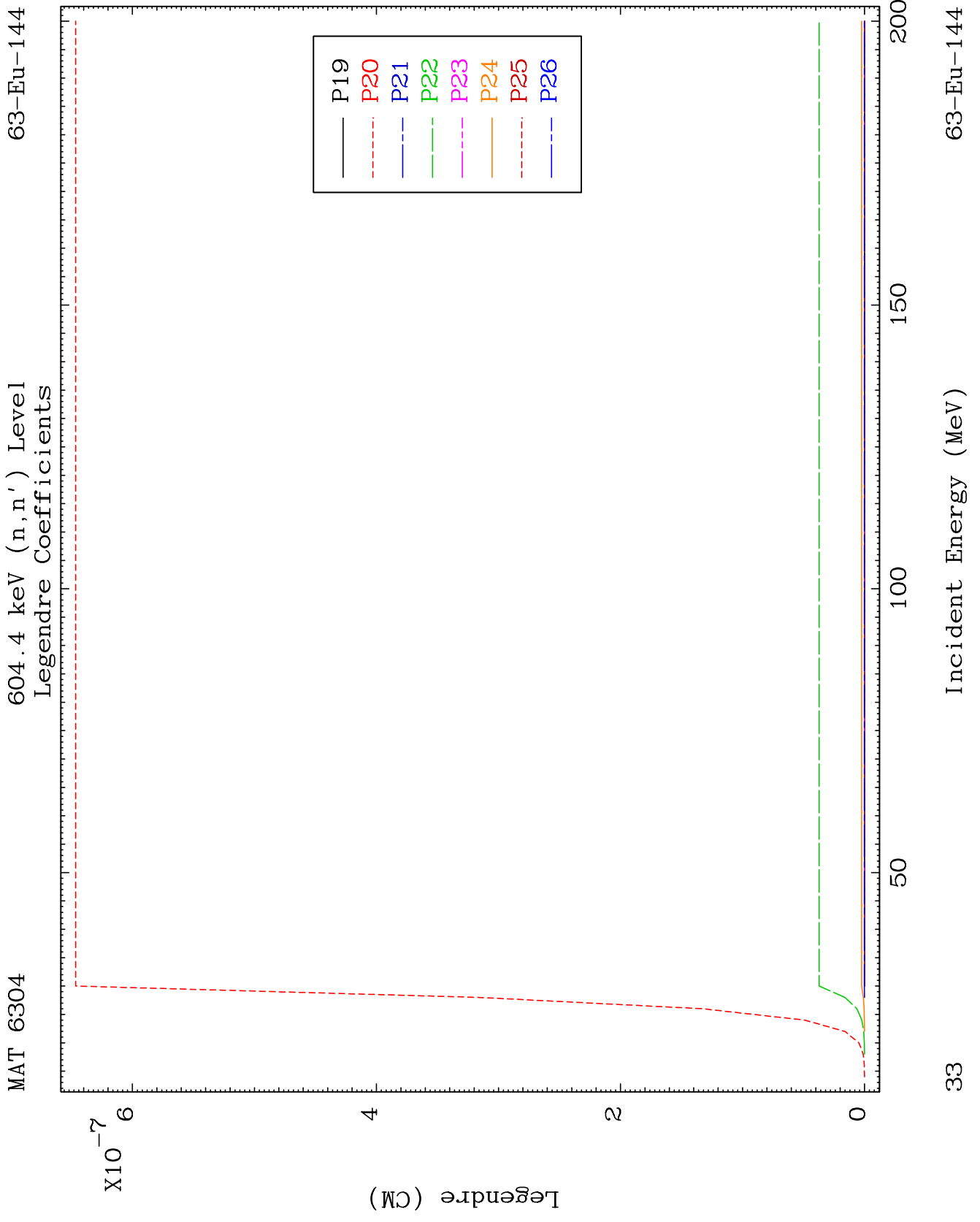
Incident Energy (MeV)

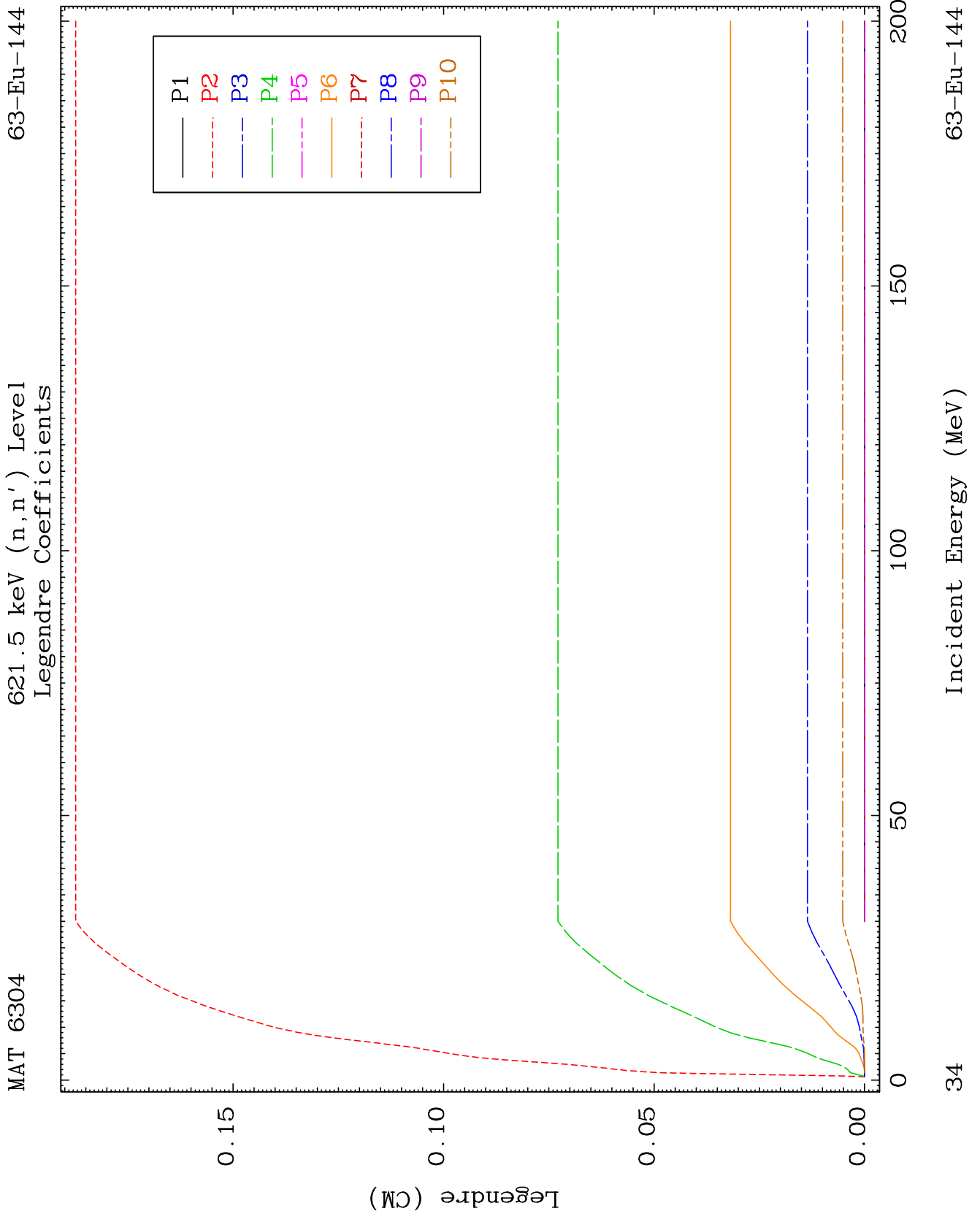
28

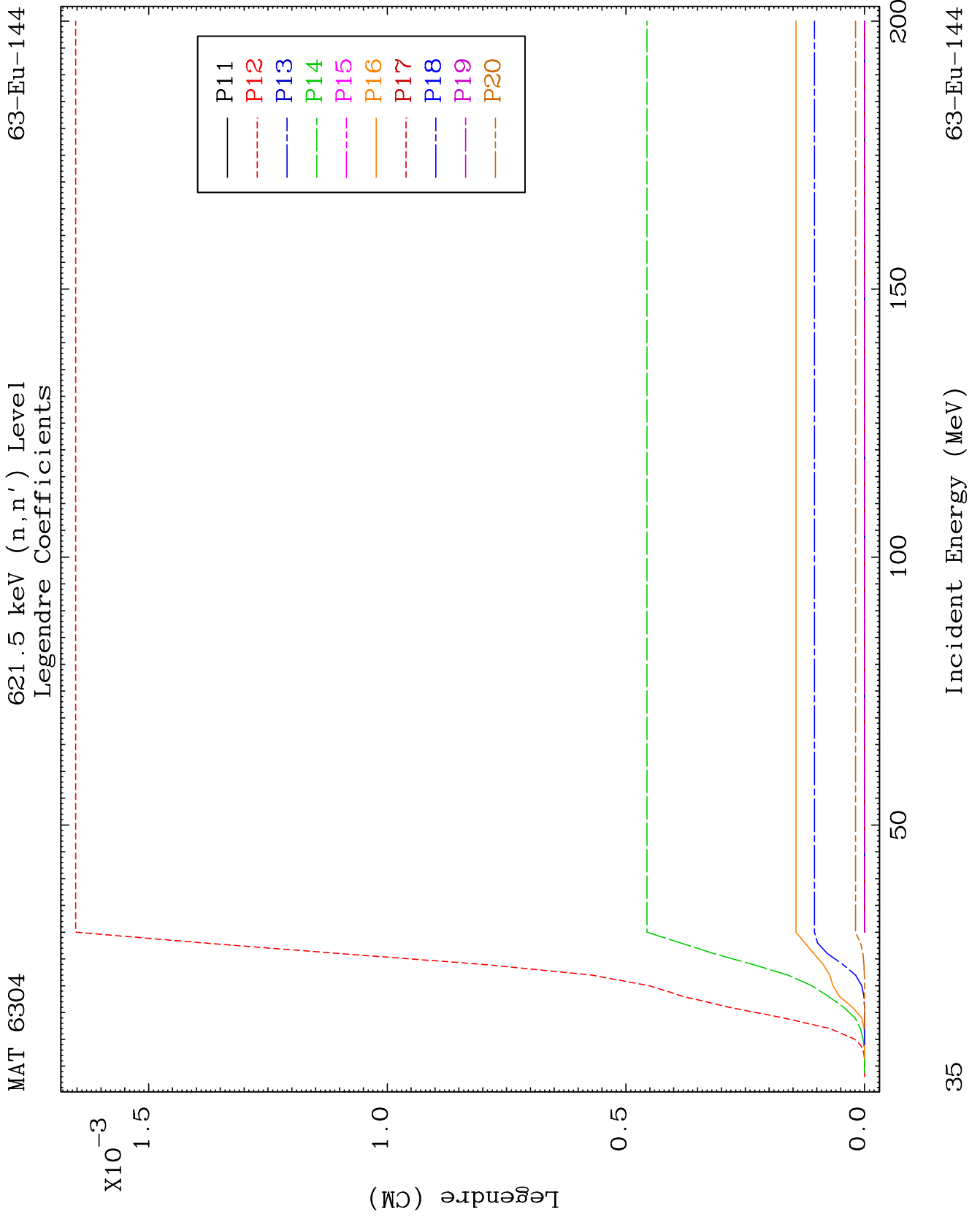


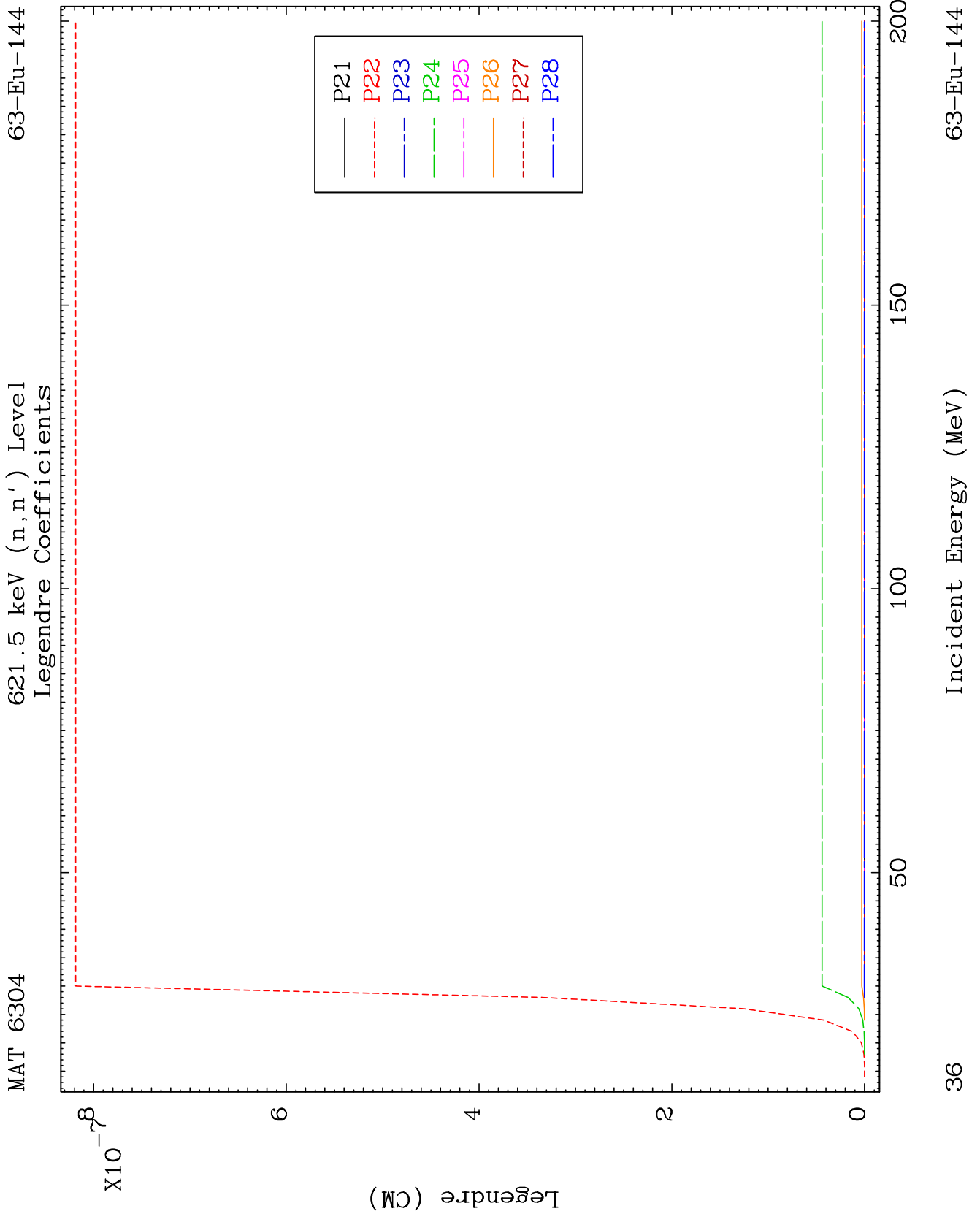


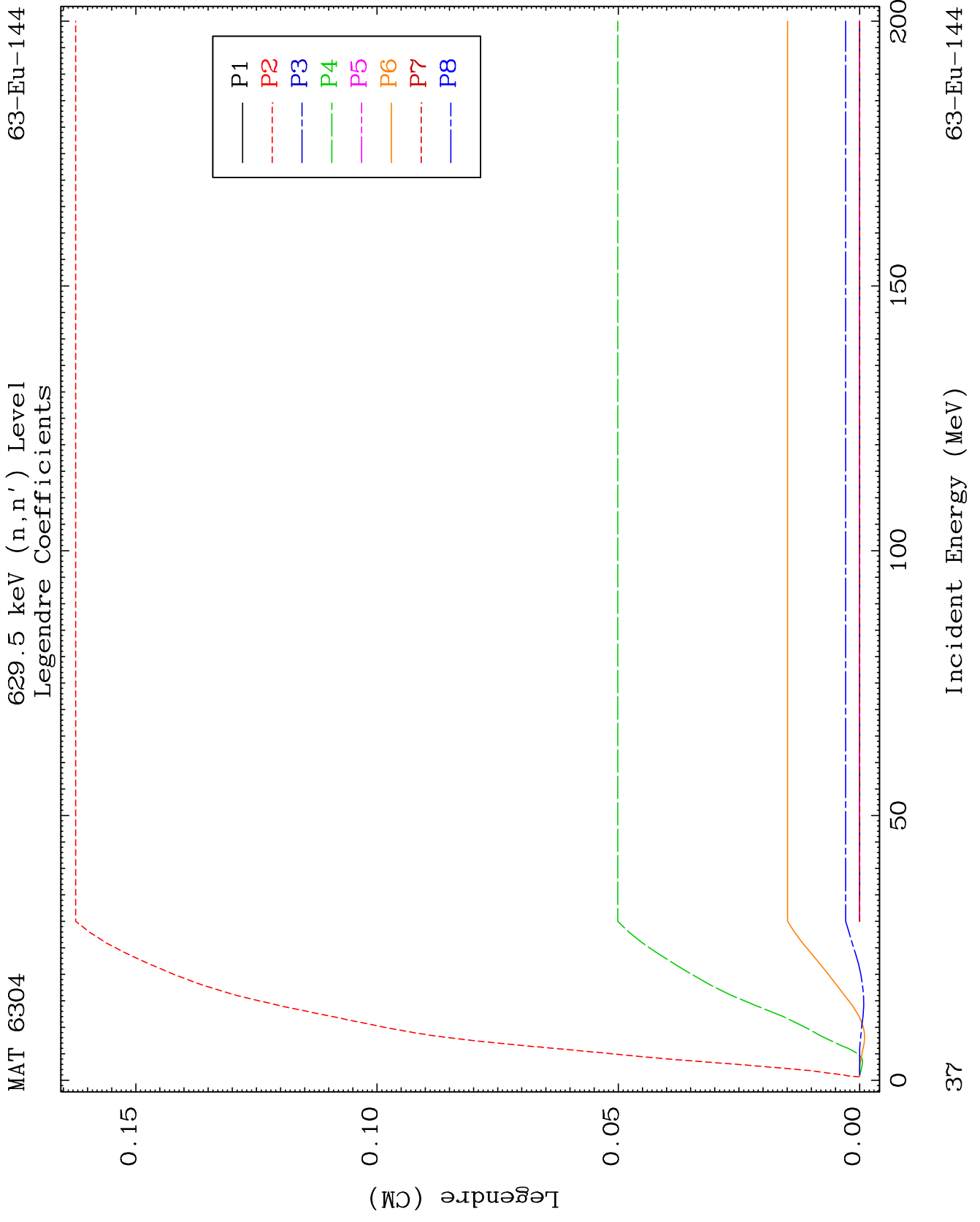








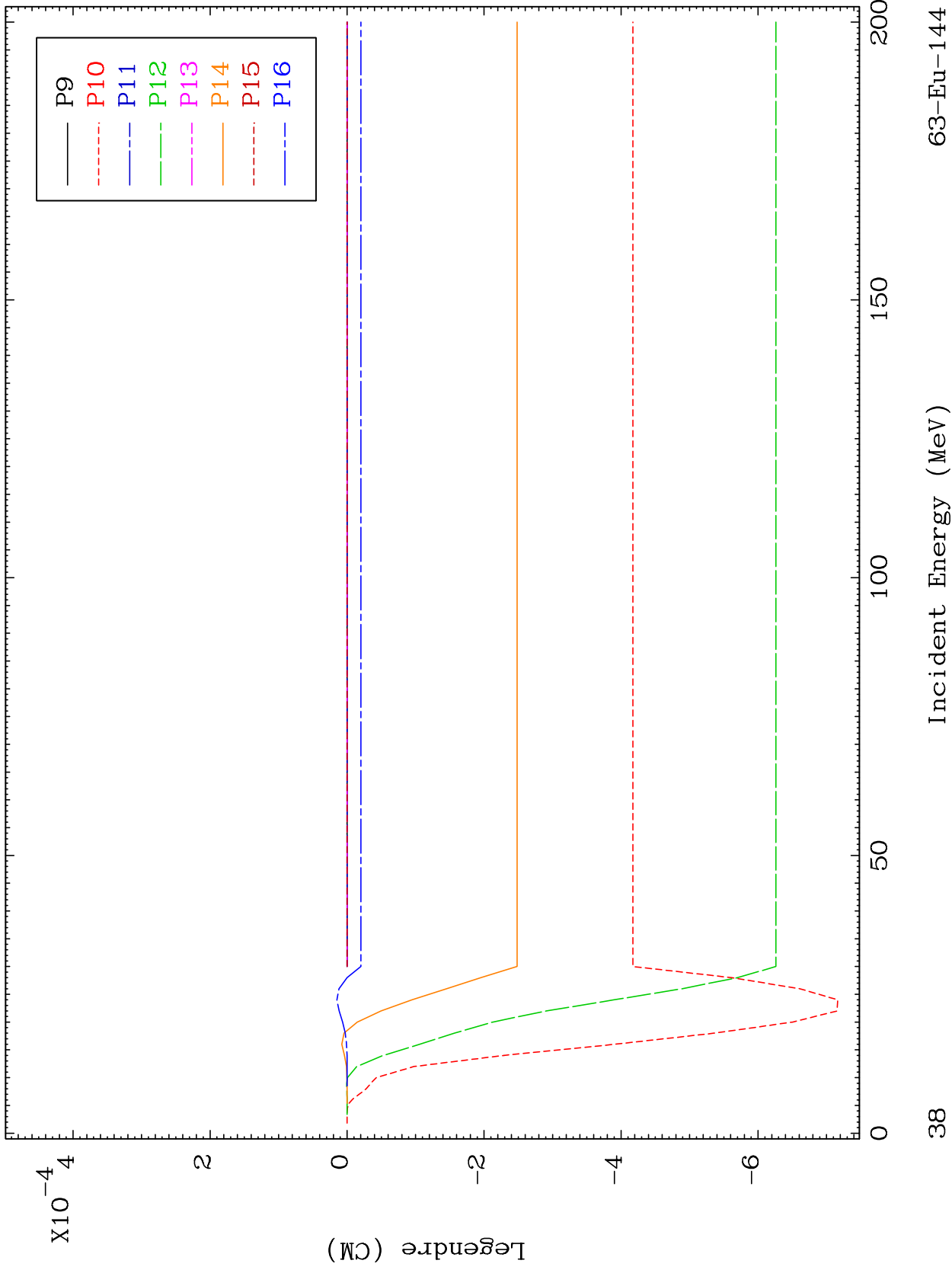




MAT 6304

629.5 keV (n, n') Level
Legendre Coefficients

63-Eu-144



63-Eu-144

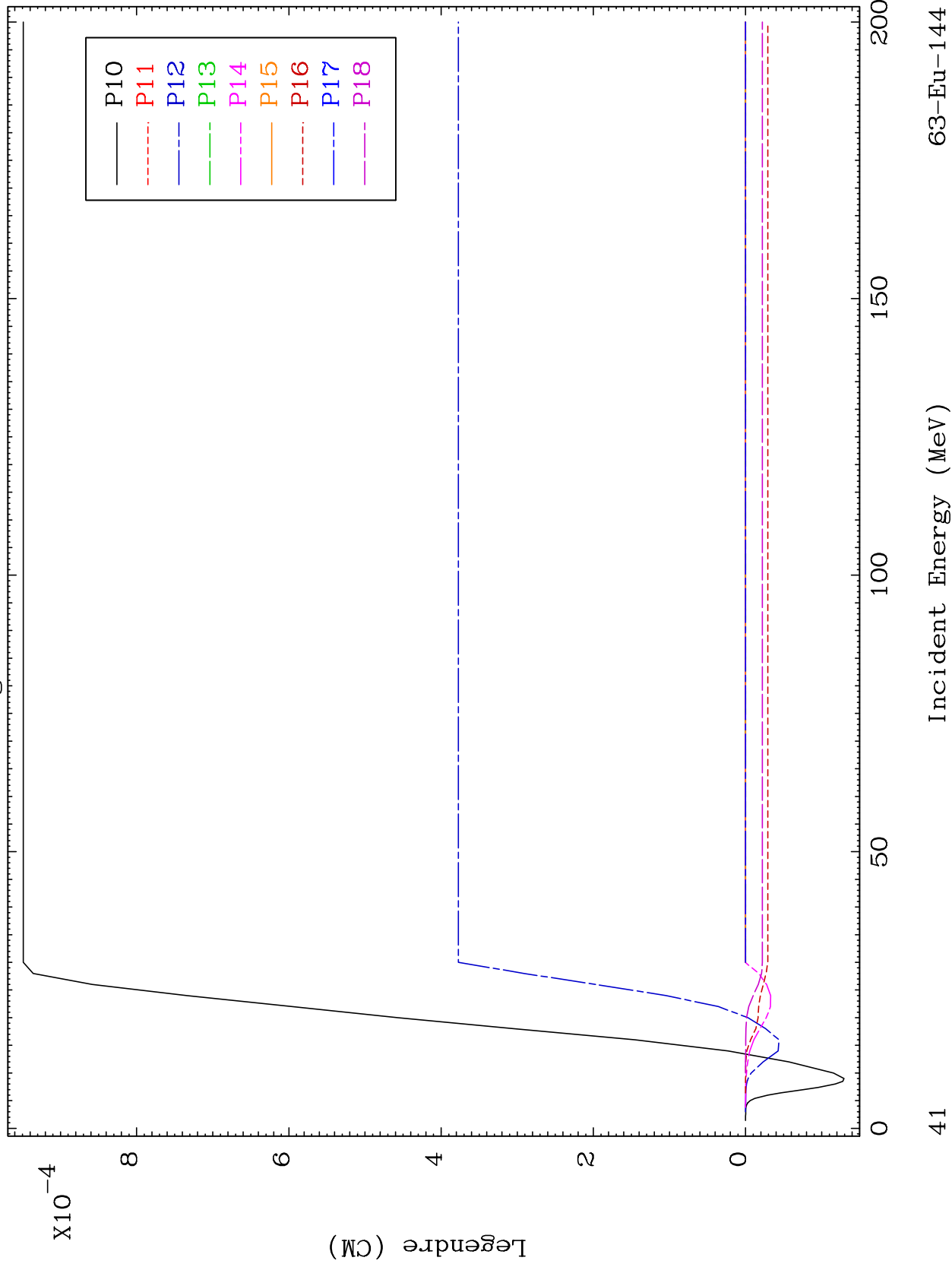
Incident Energy (MeV)

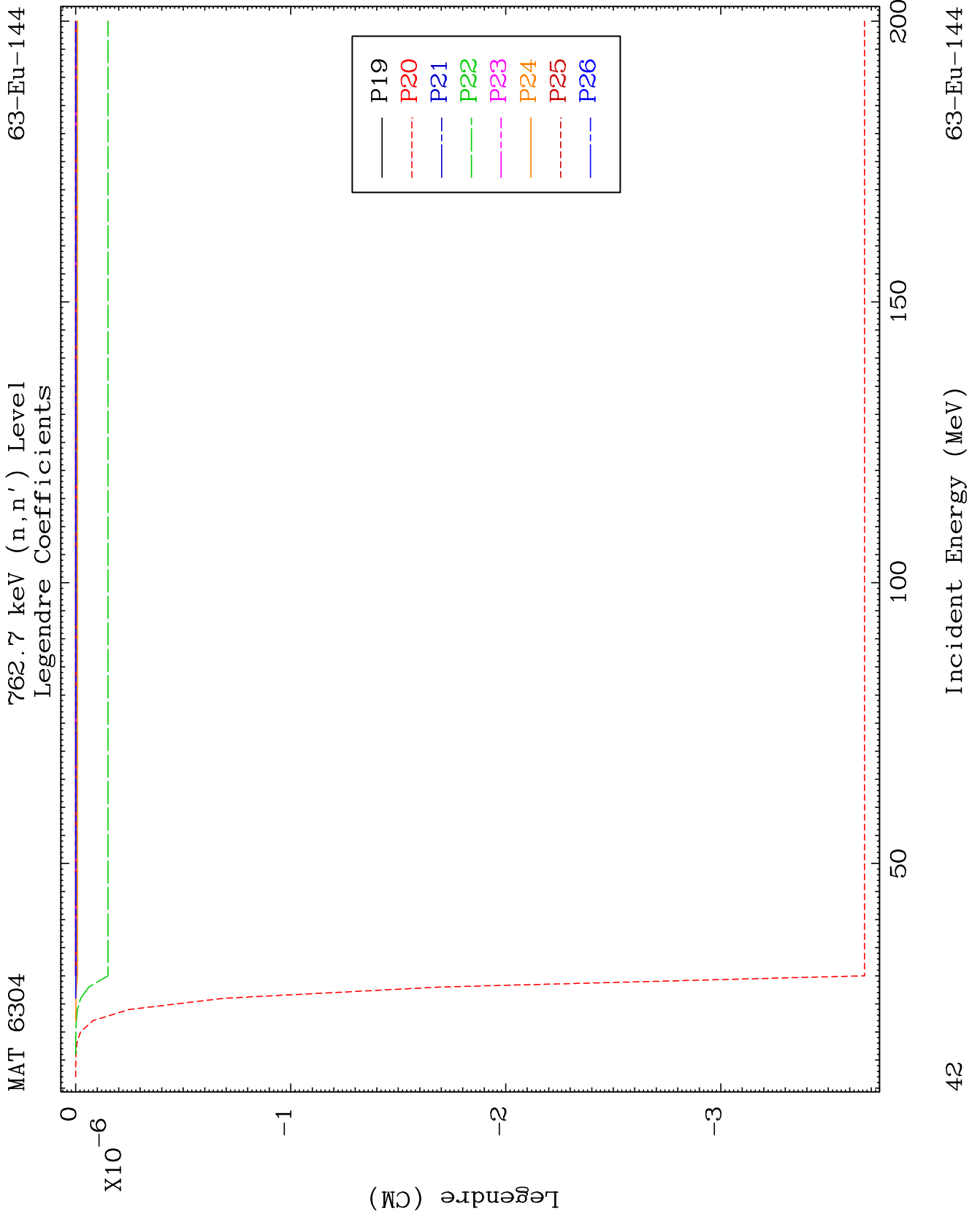
38

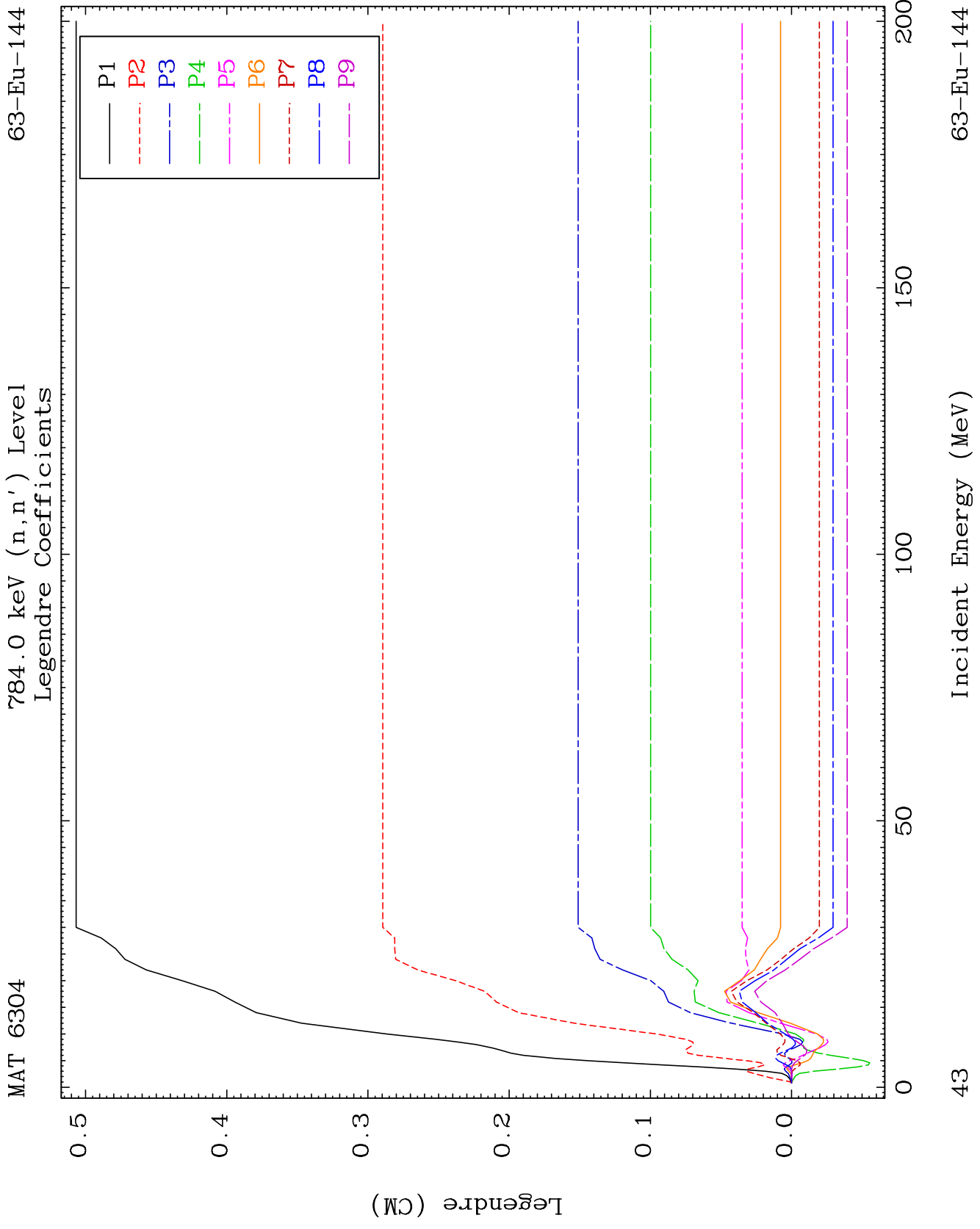
MAT 6304

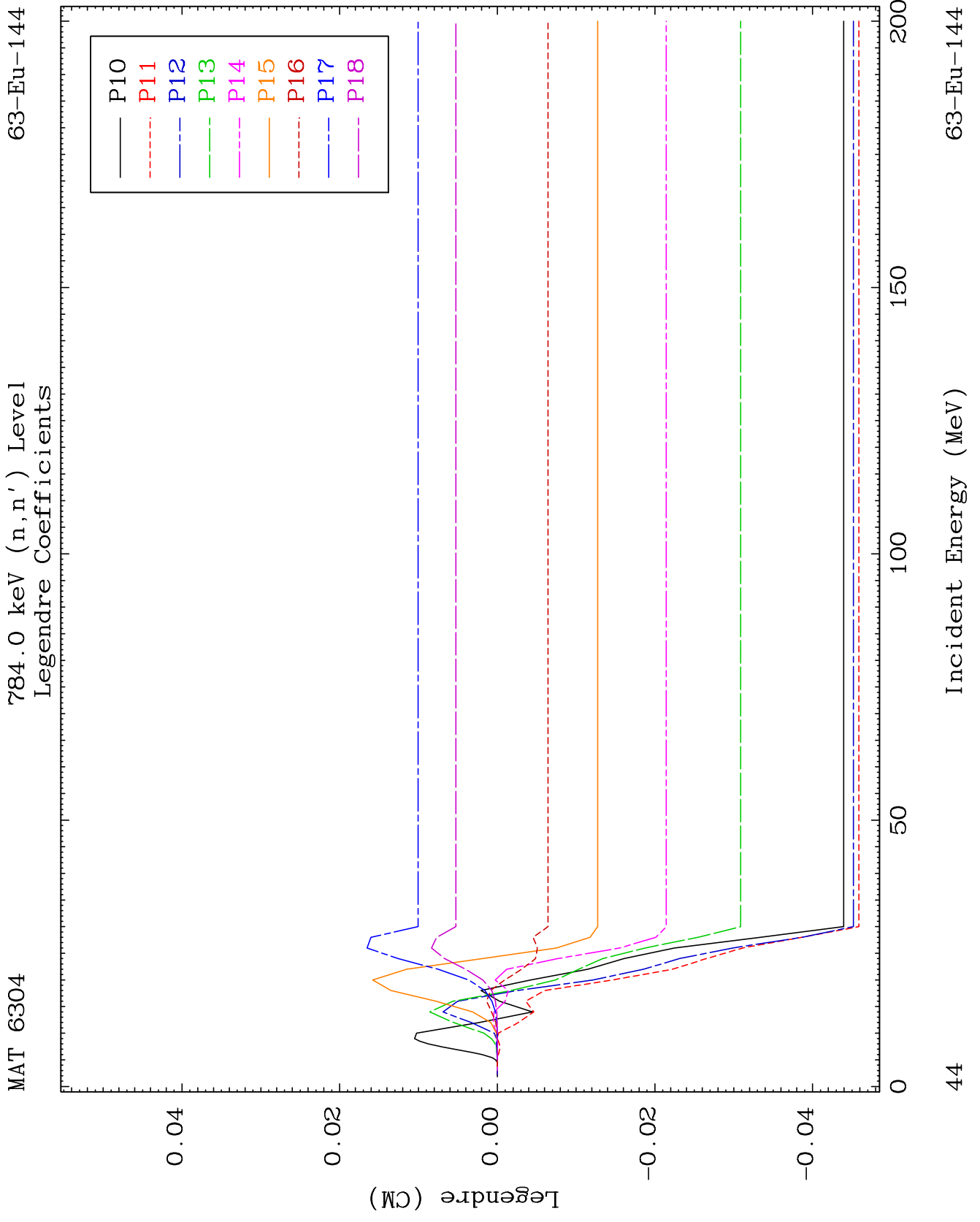
762.7 keV (n,n') Level
Legendre Coefficients

63-Eu-144





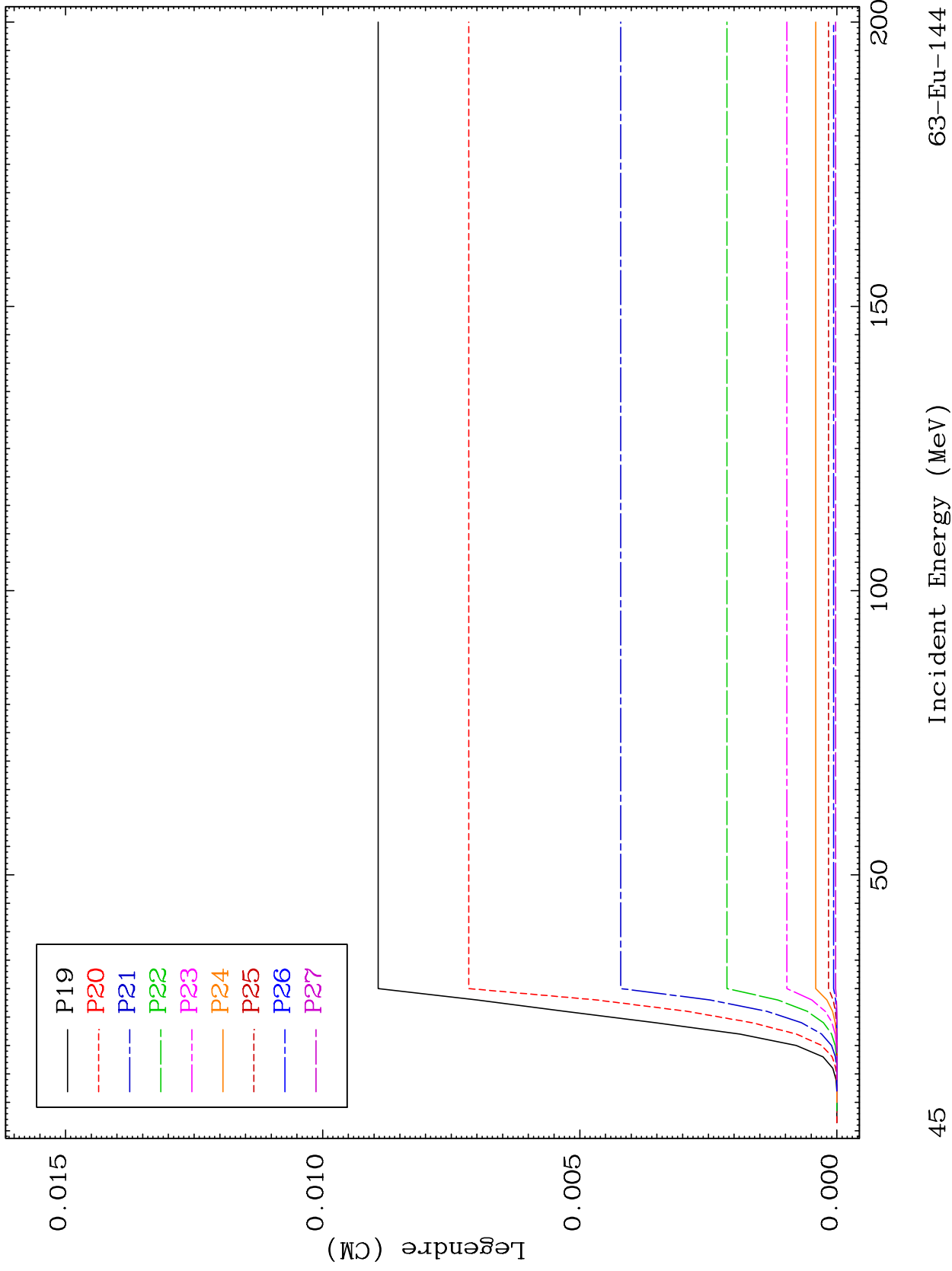




MAT 6304

784.0 keV (n,n') Level
Legendre Coefficients

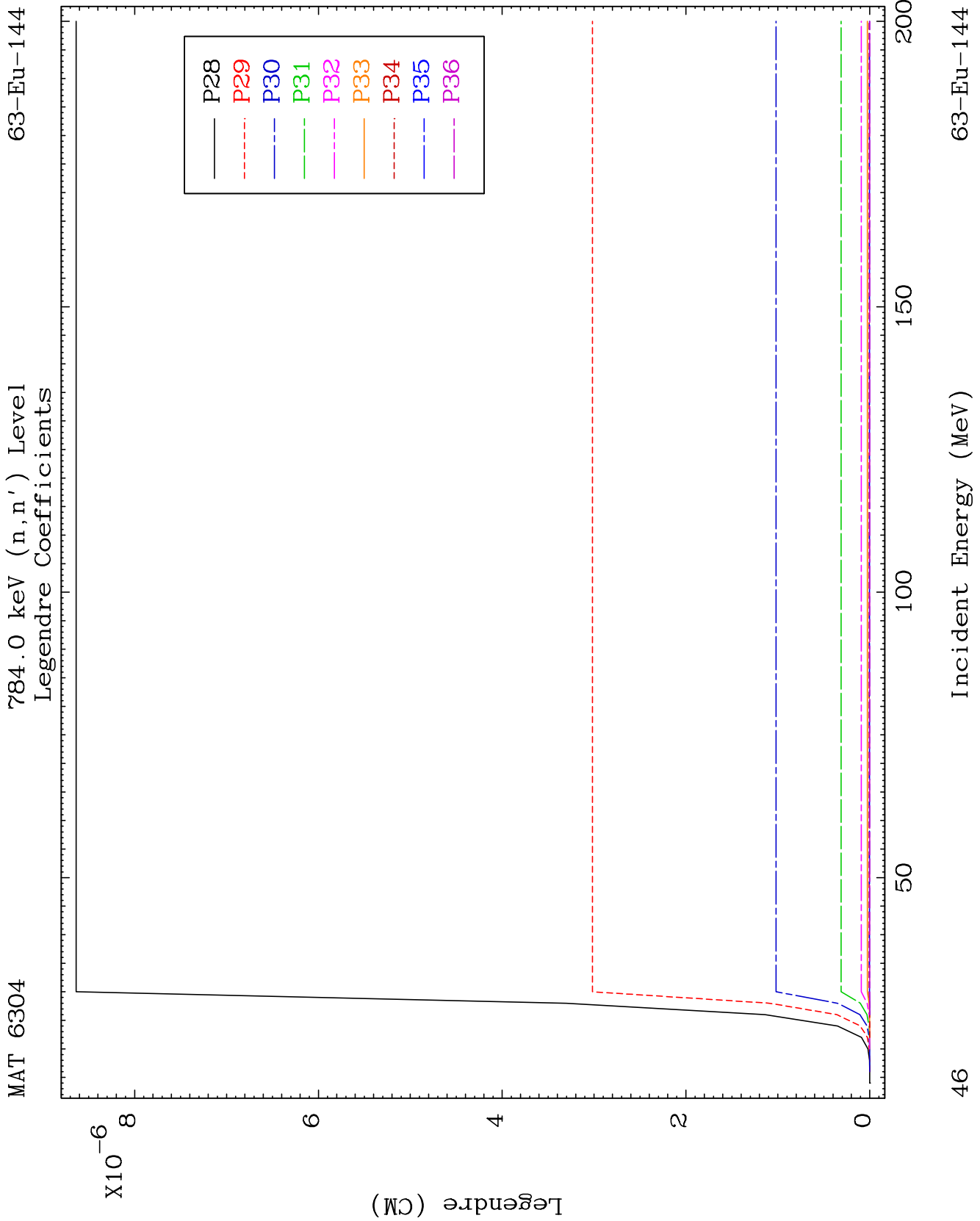
63-Eu-144



63-Eu-144

Incident Energy (MeV)

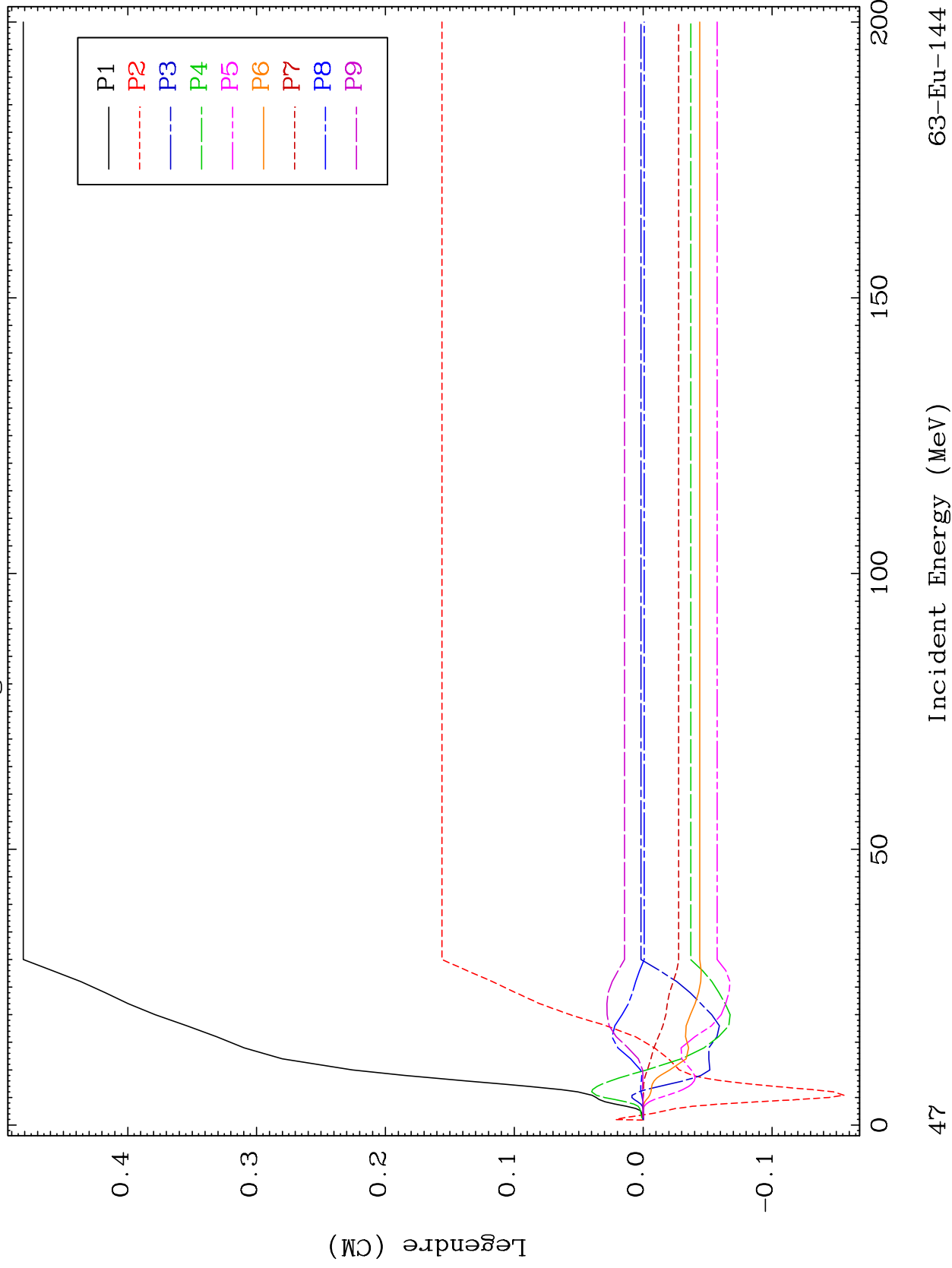
45



MAT 6304

887.4 keV (n,n') Level
Legendre Coefficients

63-Eu-144



63-Eu-144

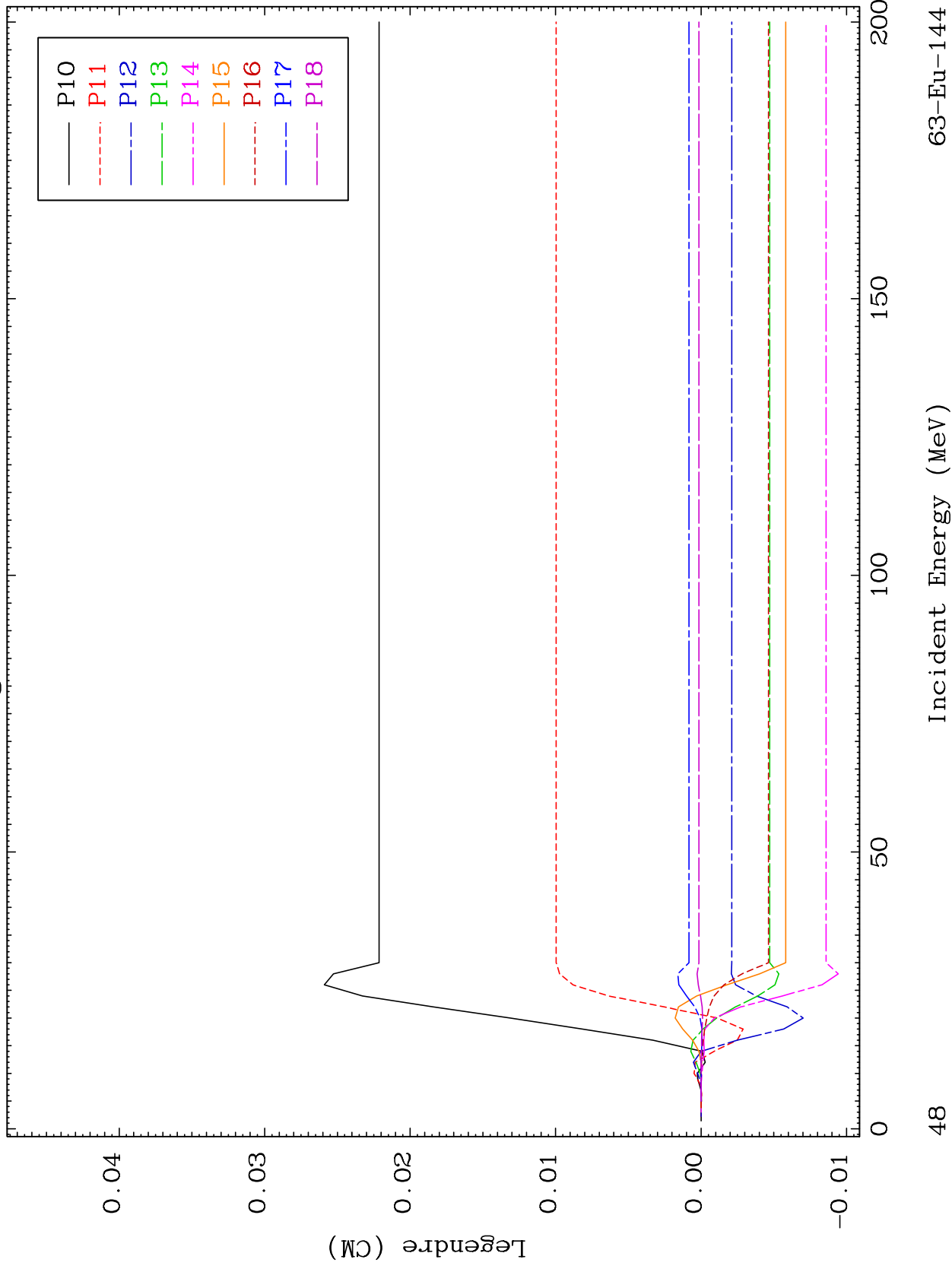
Incident Energy (MeV)

47

MAT 6304

887.4 keV (n,n') Level
Legendre Coefficients

63-Eu-144



48

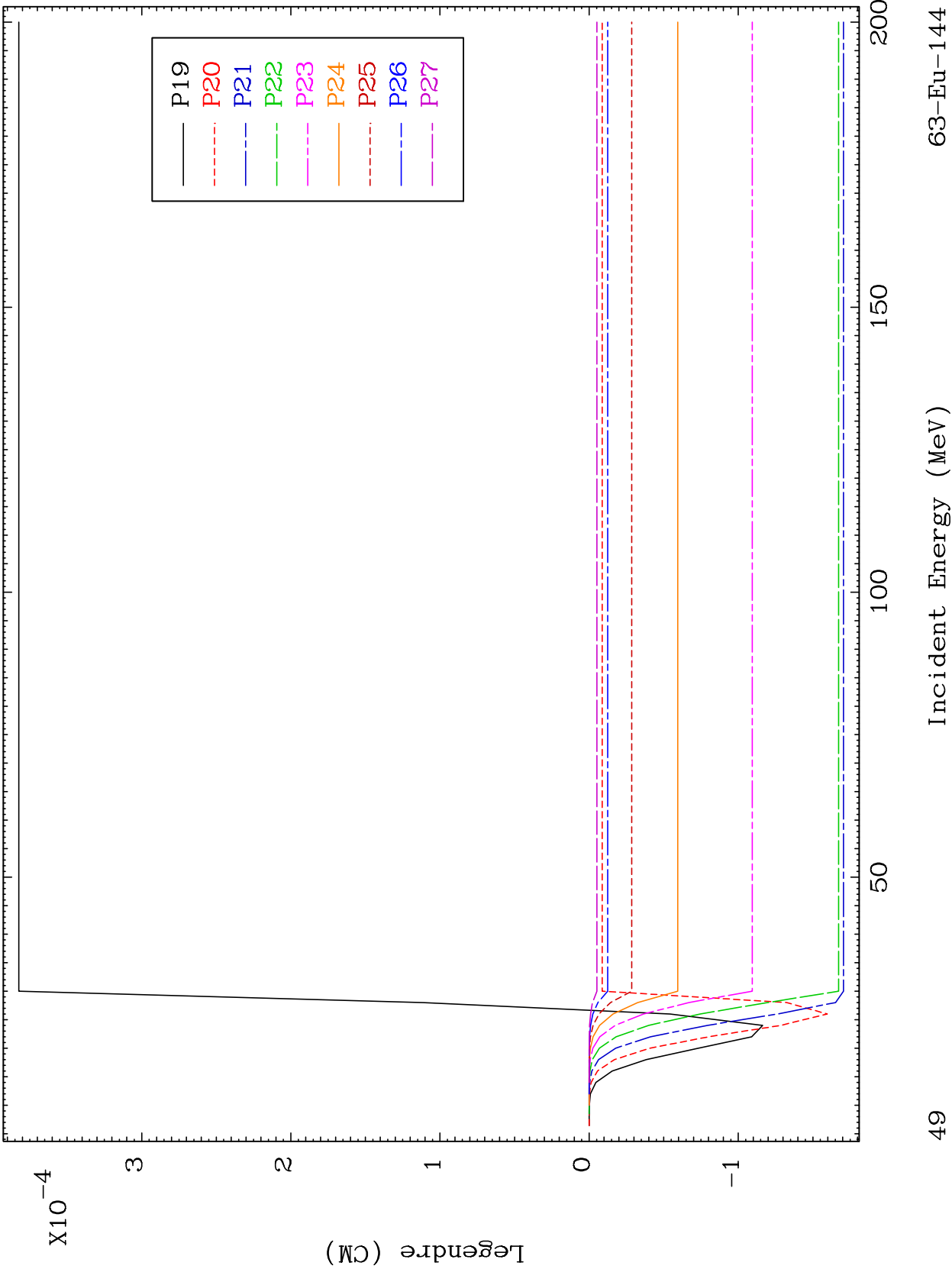
Incident Energy (MeV)

63-Eu-144

MAT 6304

887.4 keV (n,n') Level
Legendre Coefficients

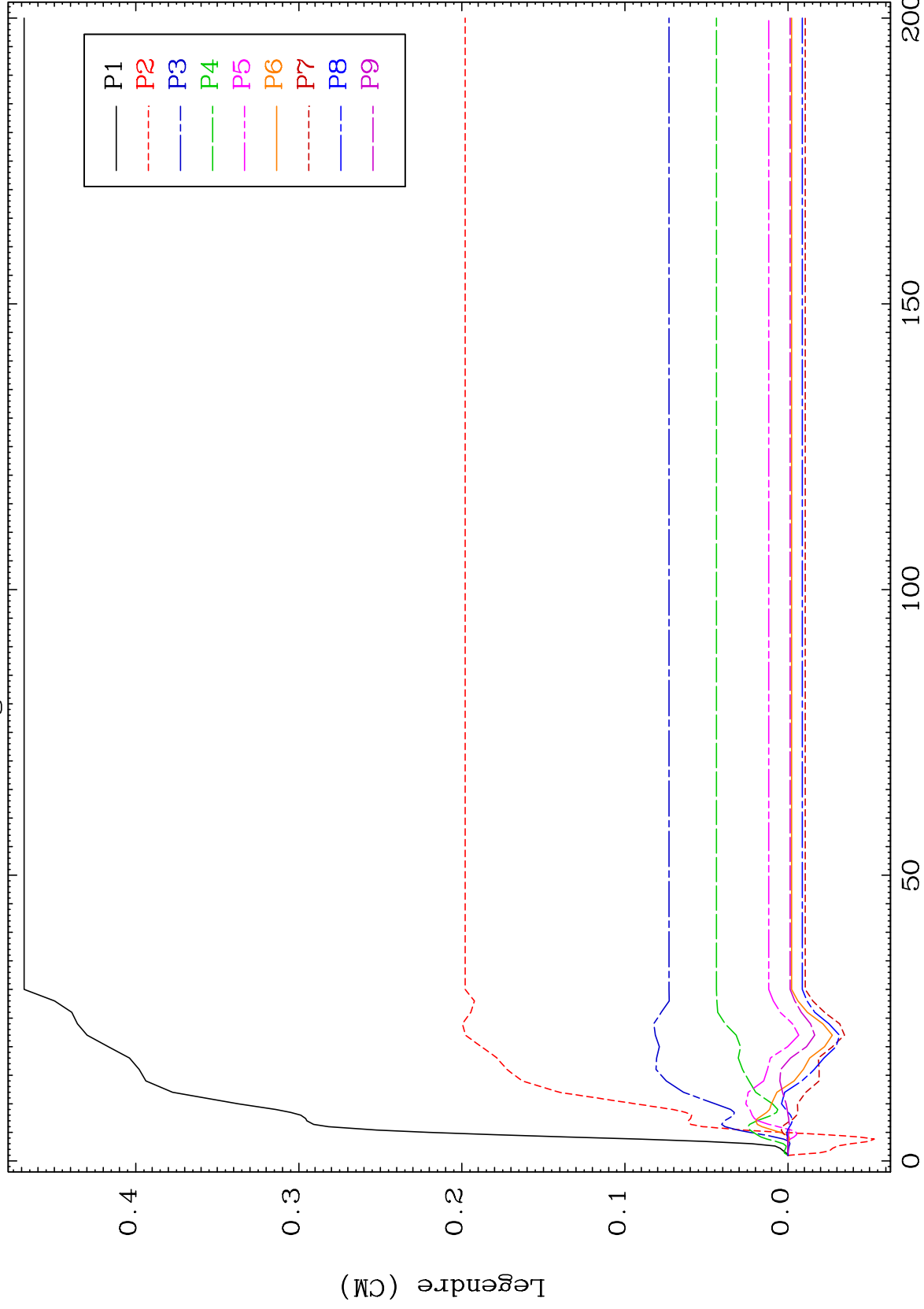
63-Eu-144



MAT 6304

894.6 keV (n, n') Level
Legendre Coefficients

63-Eu-144



51

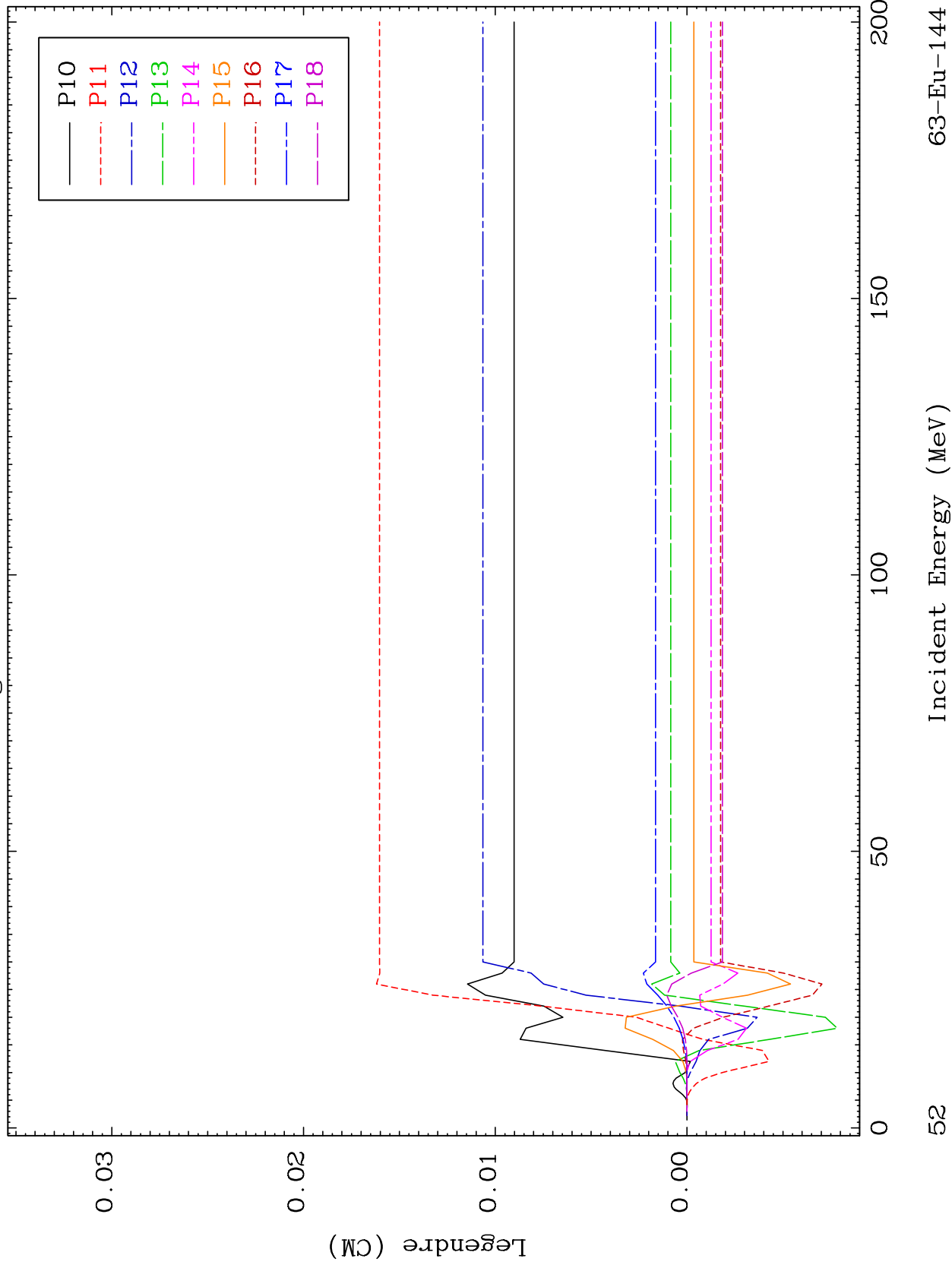
Incident Energy (MeV)

63-Eu-144

MAT 6304

894.6 keV (n,n') Level
Legendre Coefficients

63-Eu-144



63-Eu-144

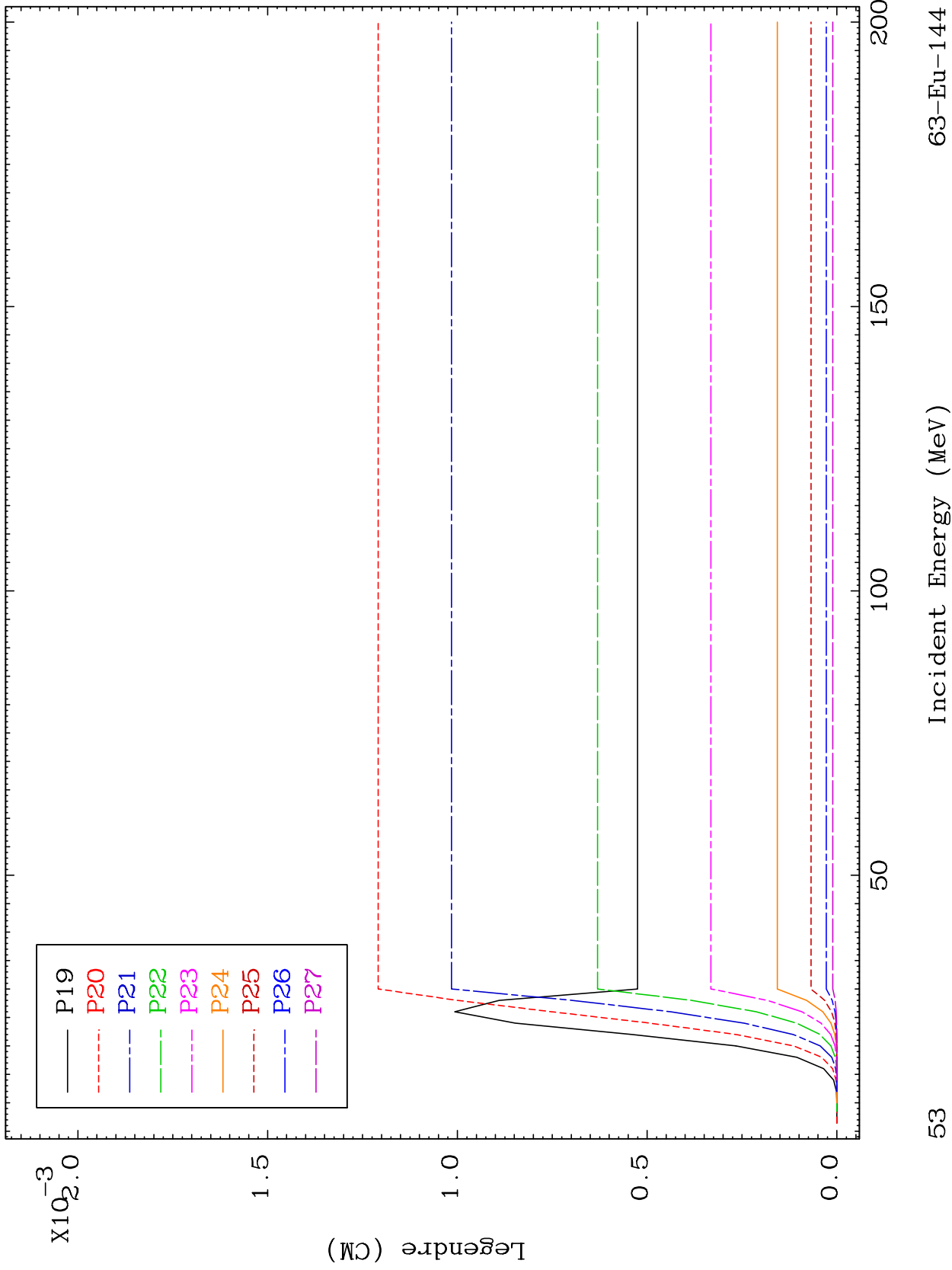
Incident Energy (MeV)

52

MAT 6304

894.6 keV (n,n') Level
Legendre Coefficients

63-Eu-144



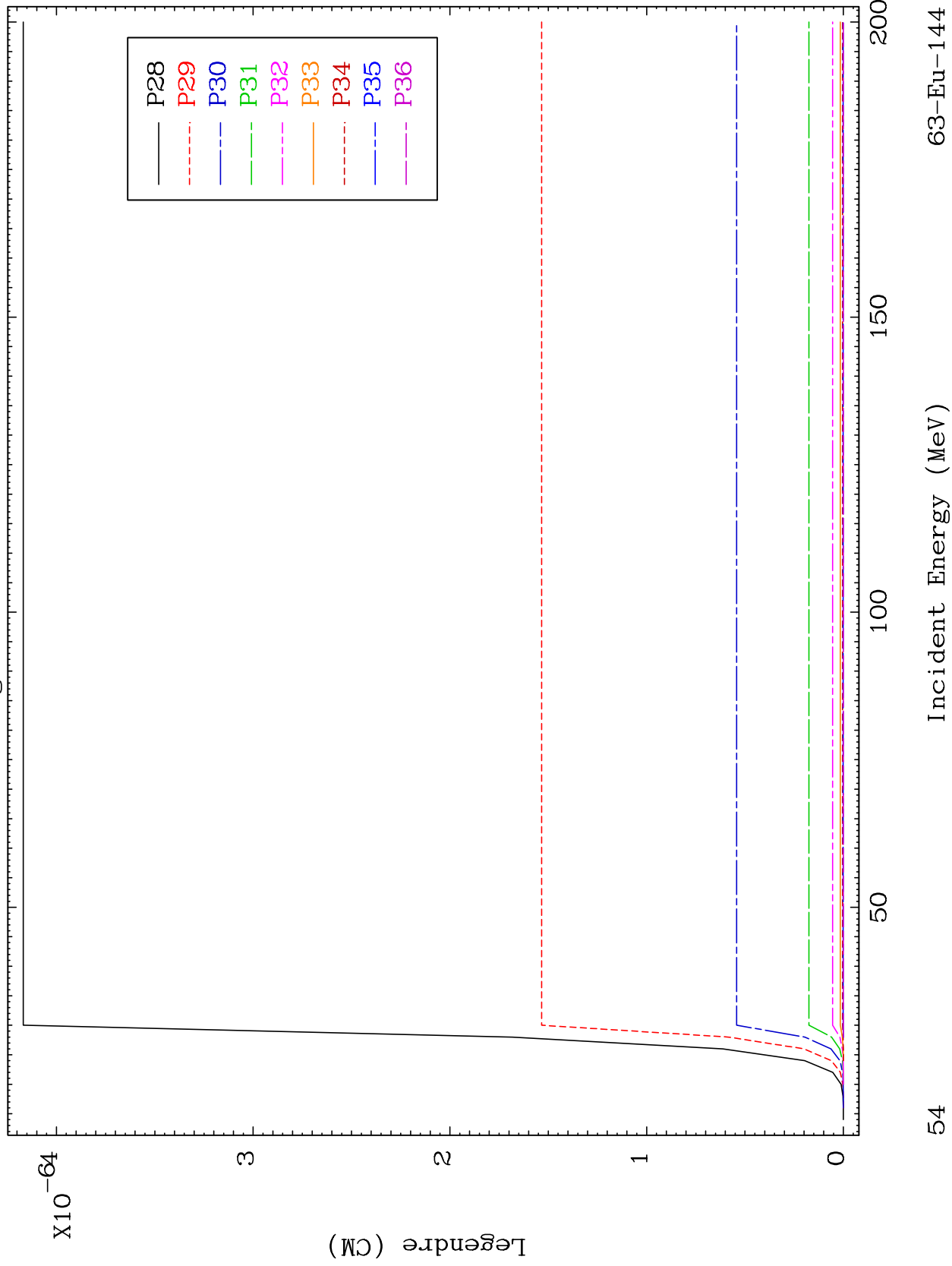
53

63-Eu-144

MAT 6304

894.6 keV (n,n') Level
Legendre Coefficients

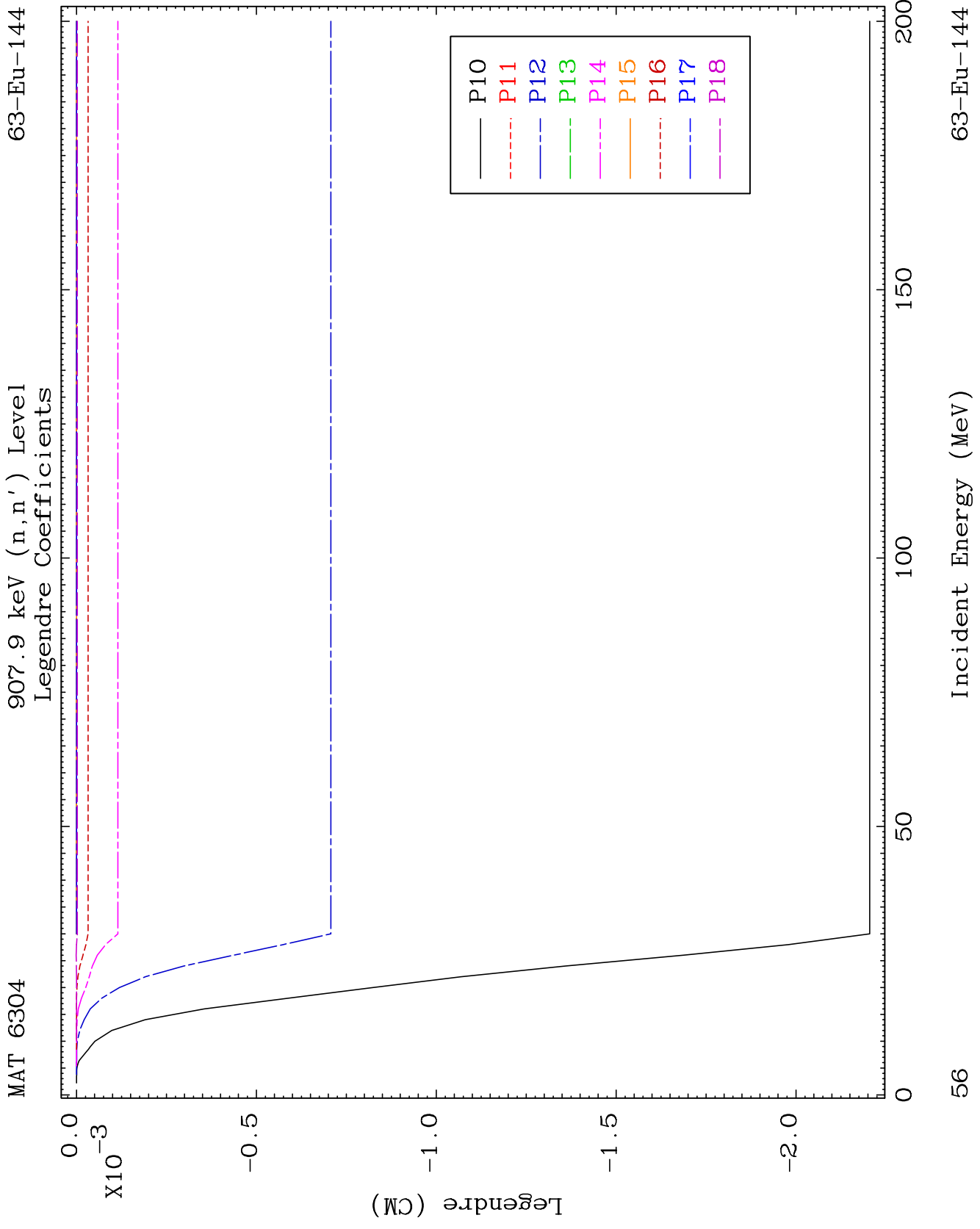
63-Eu-144

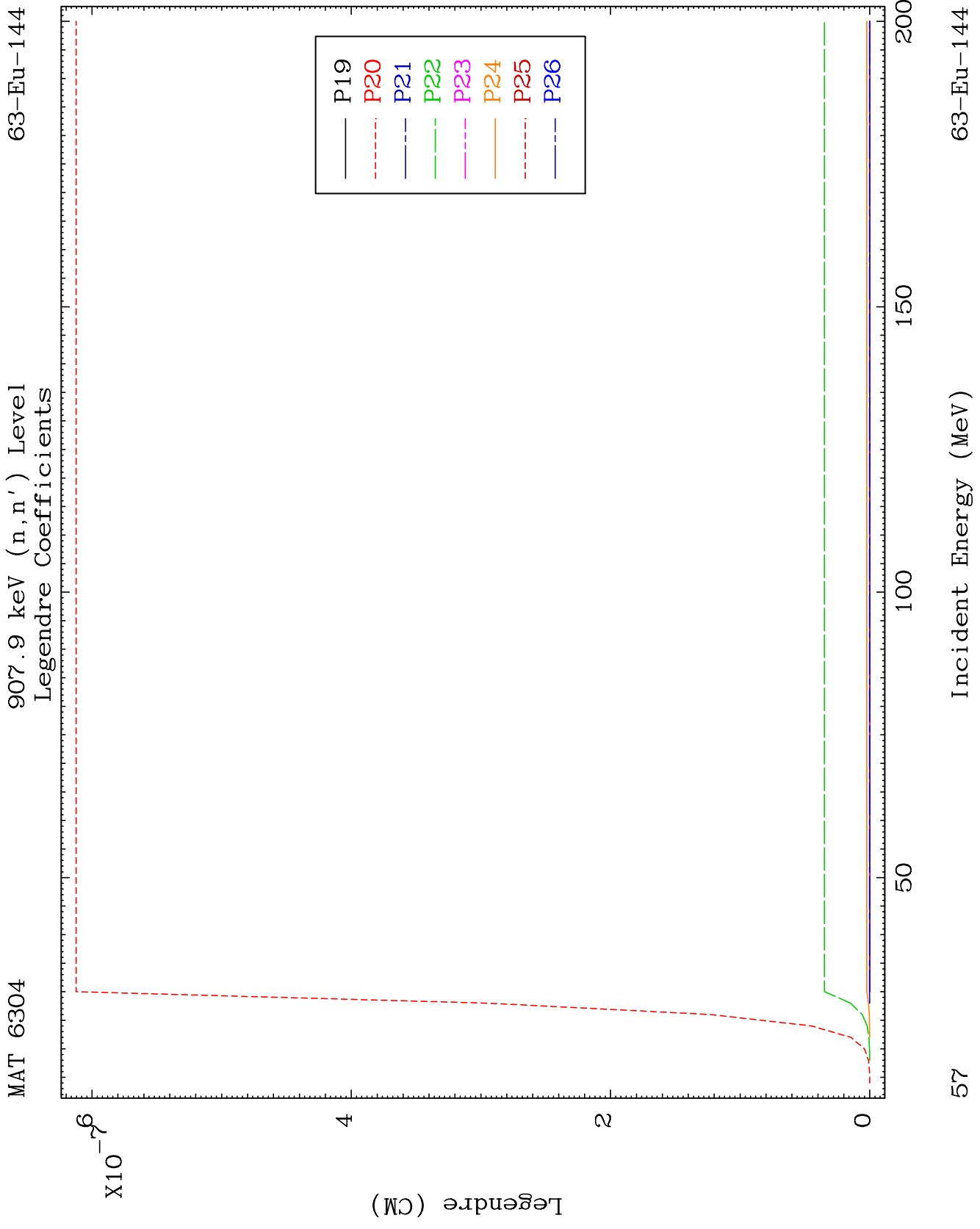


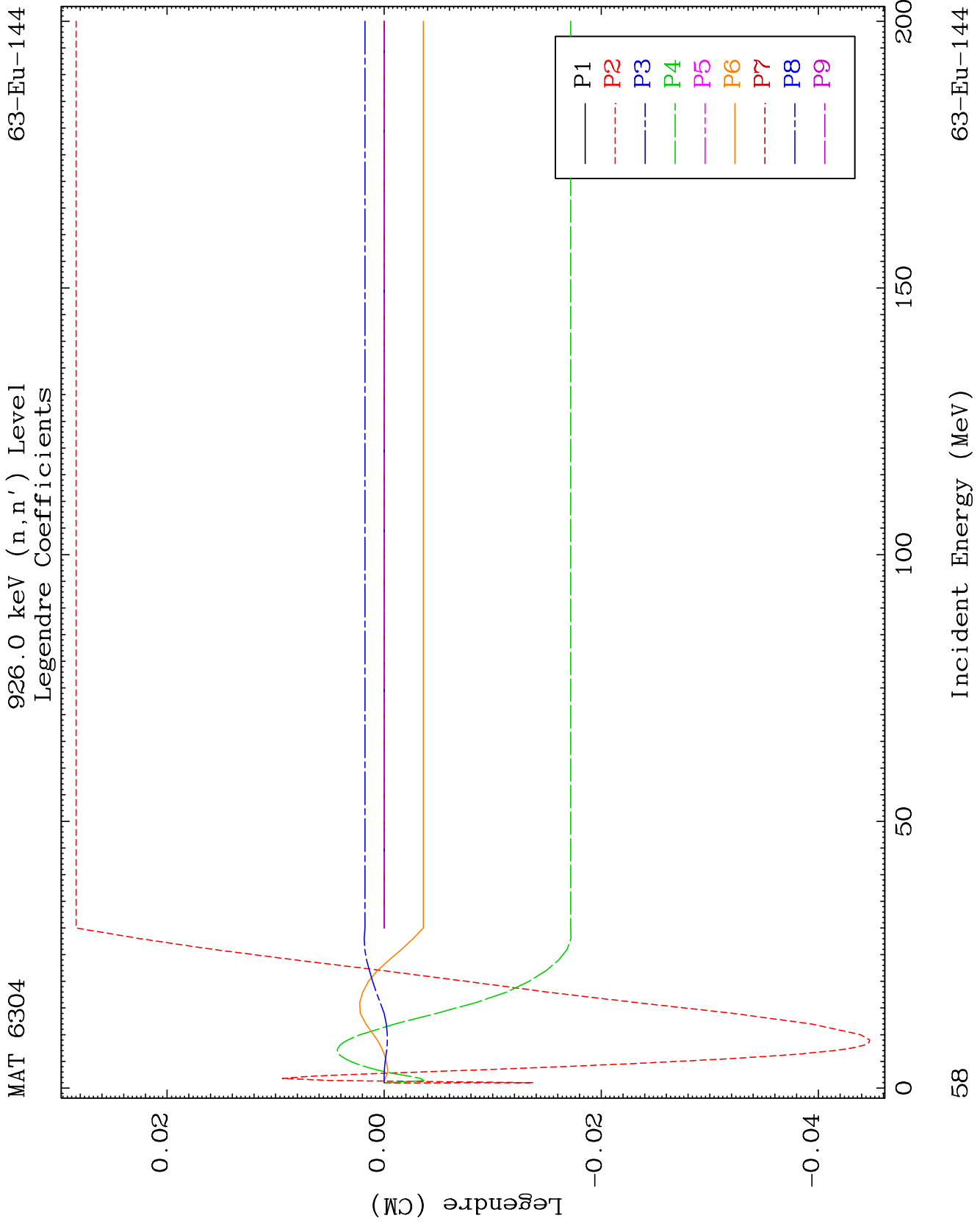
54

Incident Energy (MeV)

63-Eu-144



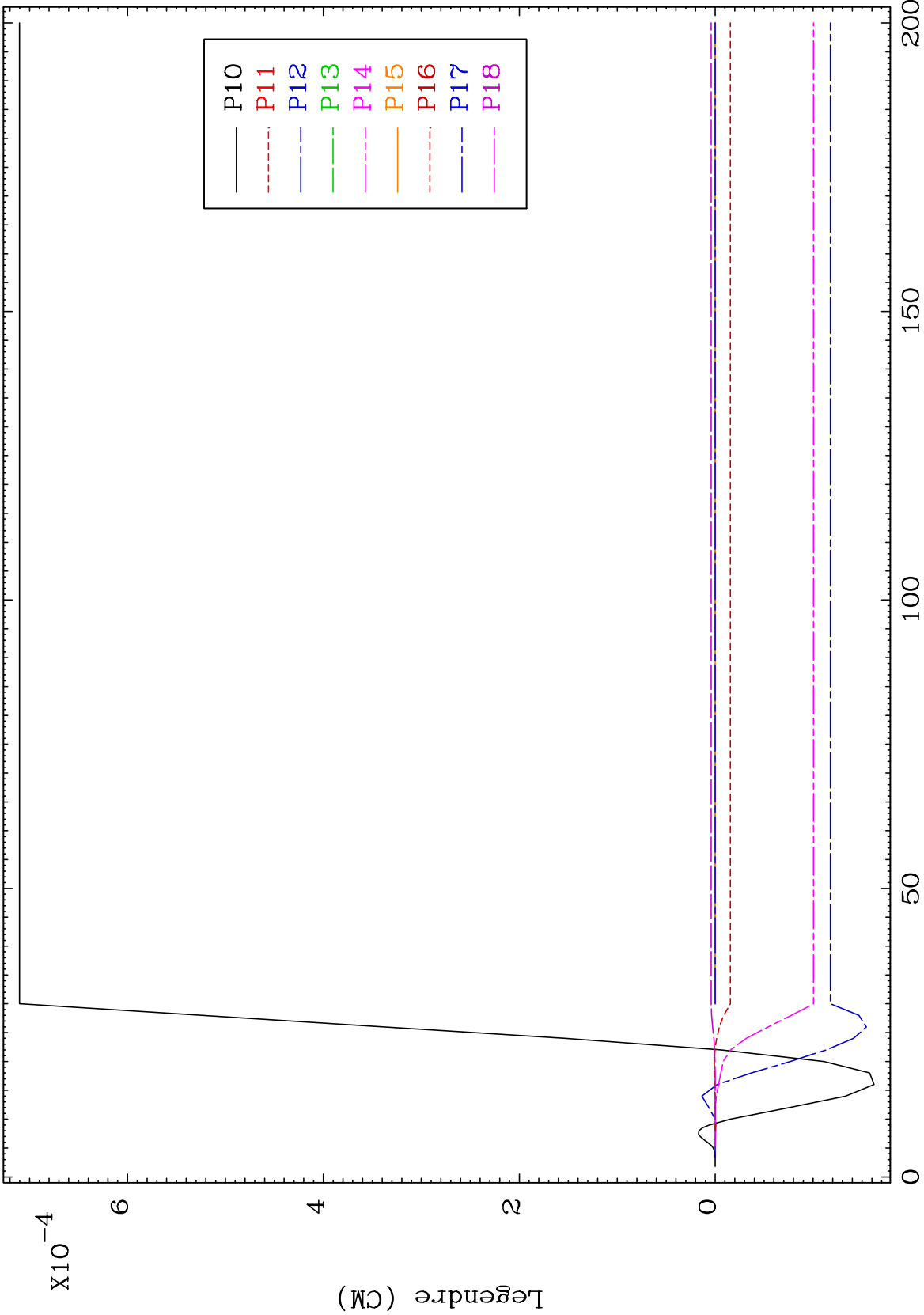




MAT 6304

926.0 keV (n,n') Level
Legendre Coefficients

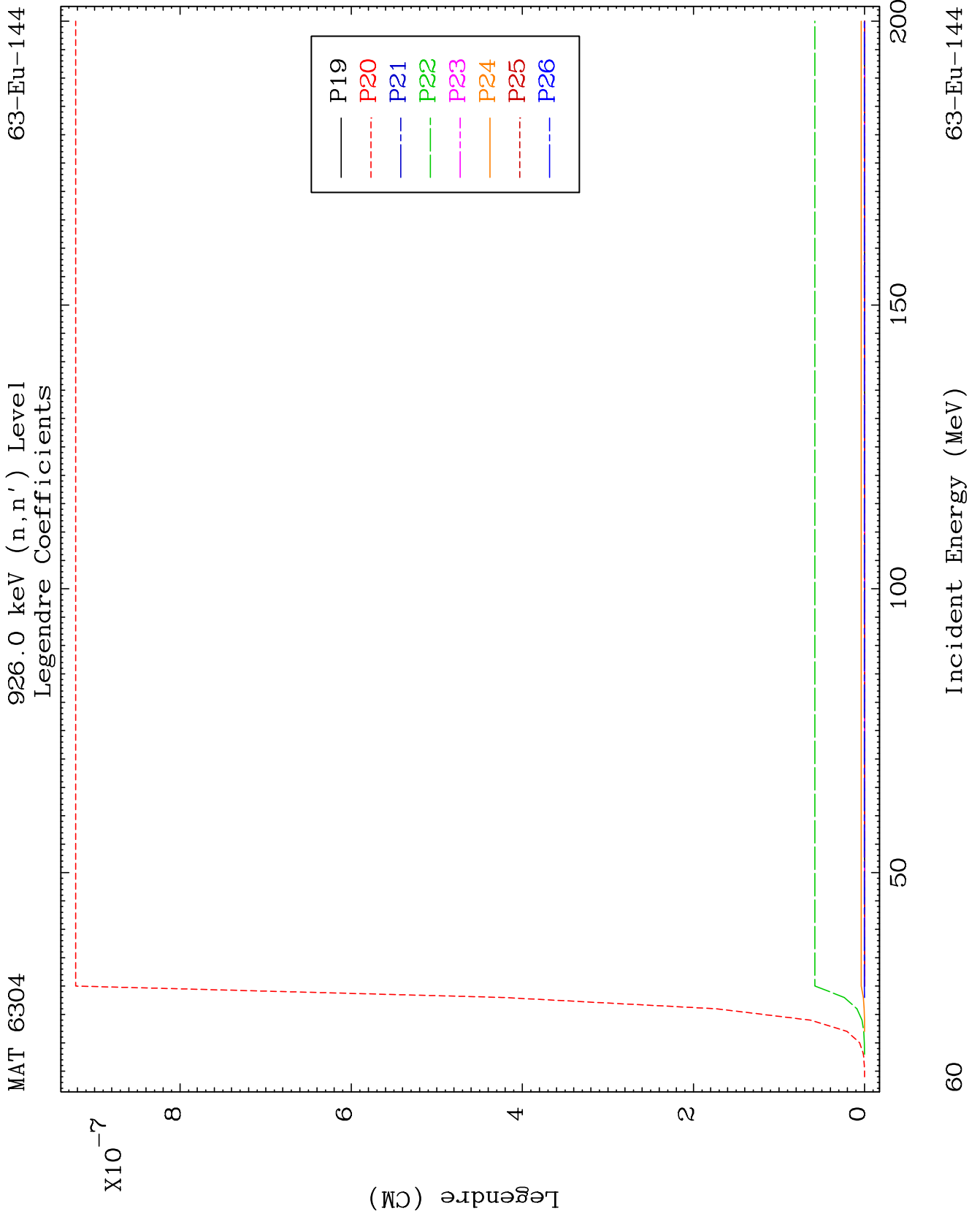
63-Eu-144

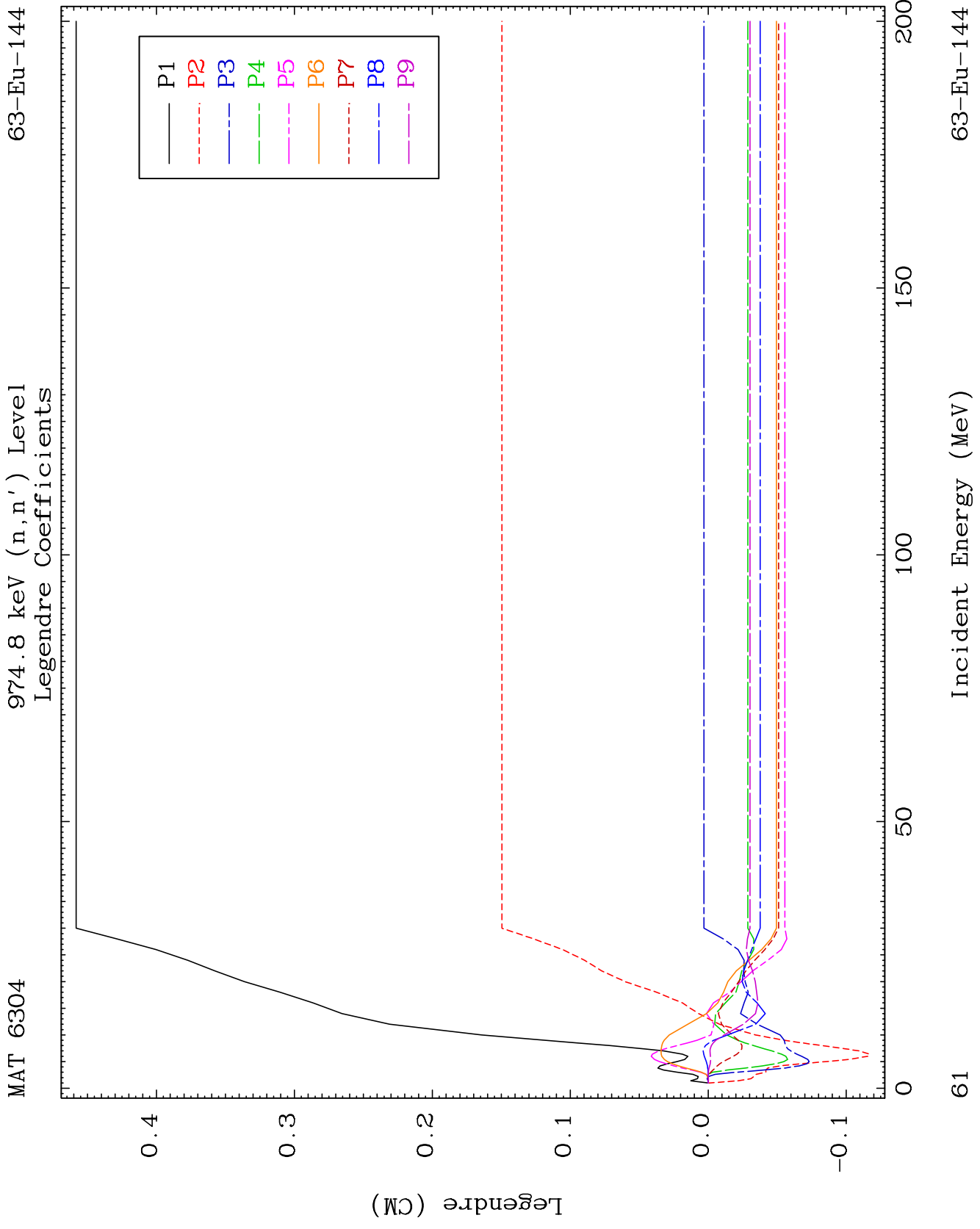


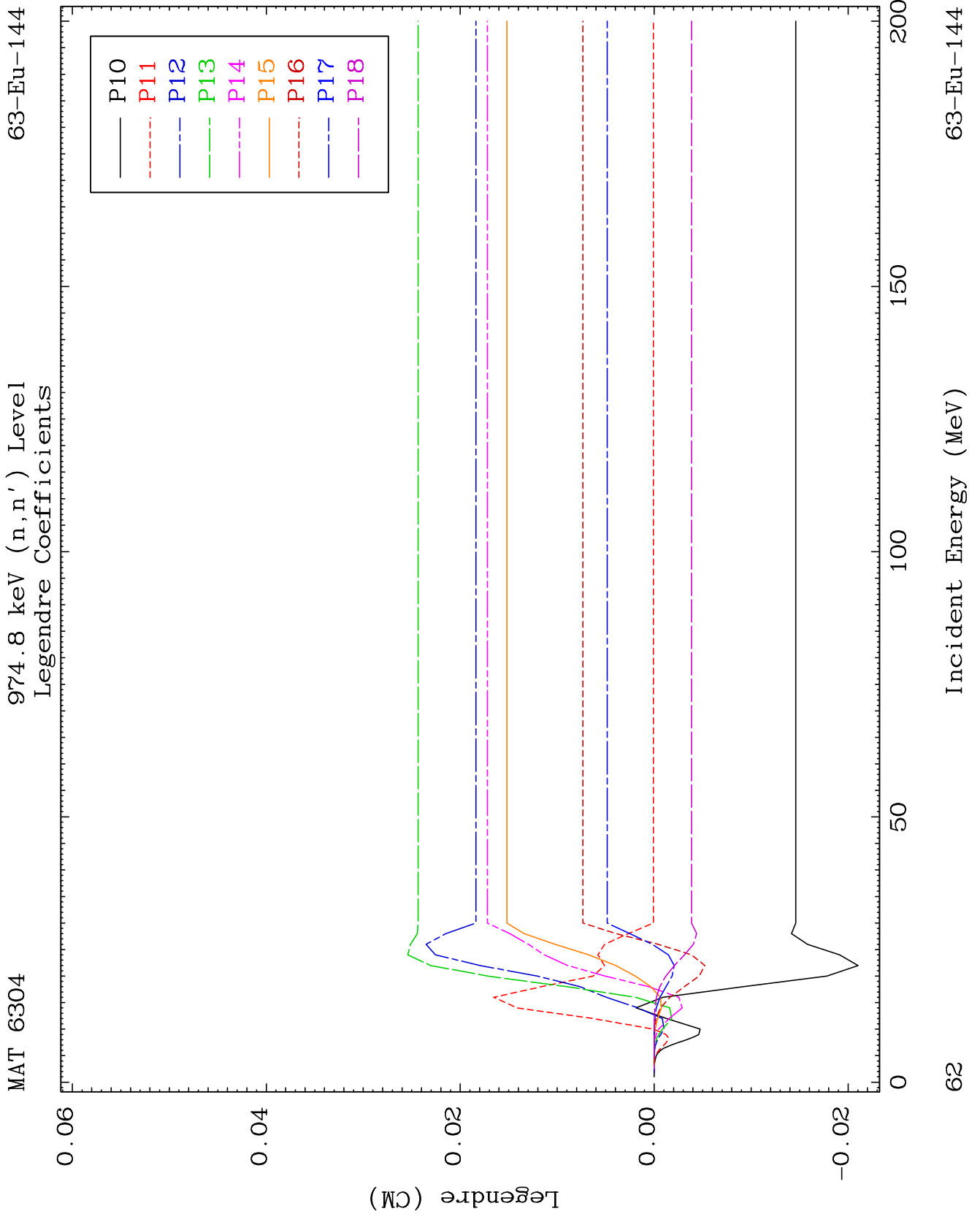
59

Incident Energy (MeV)

63-Eu-144



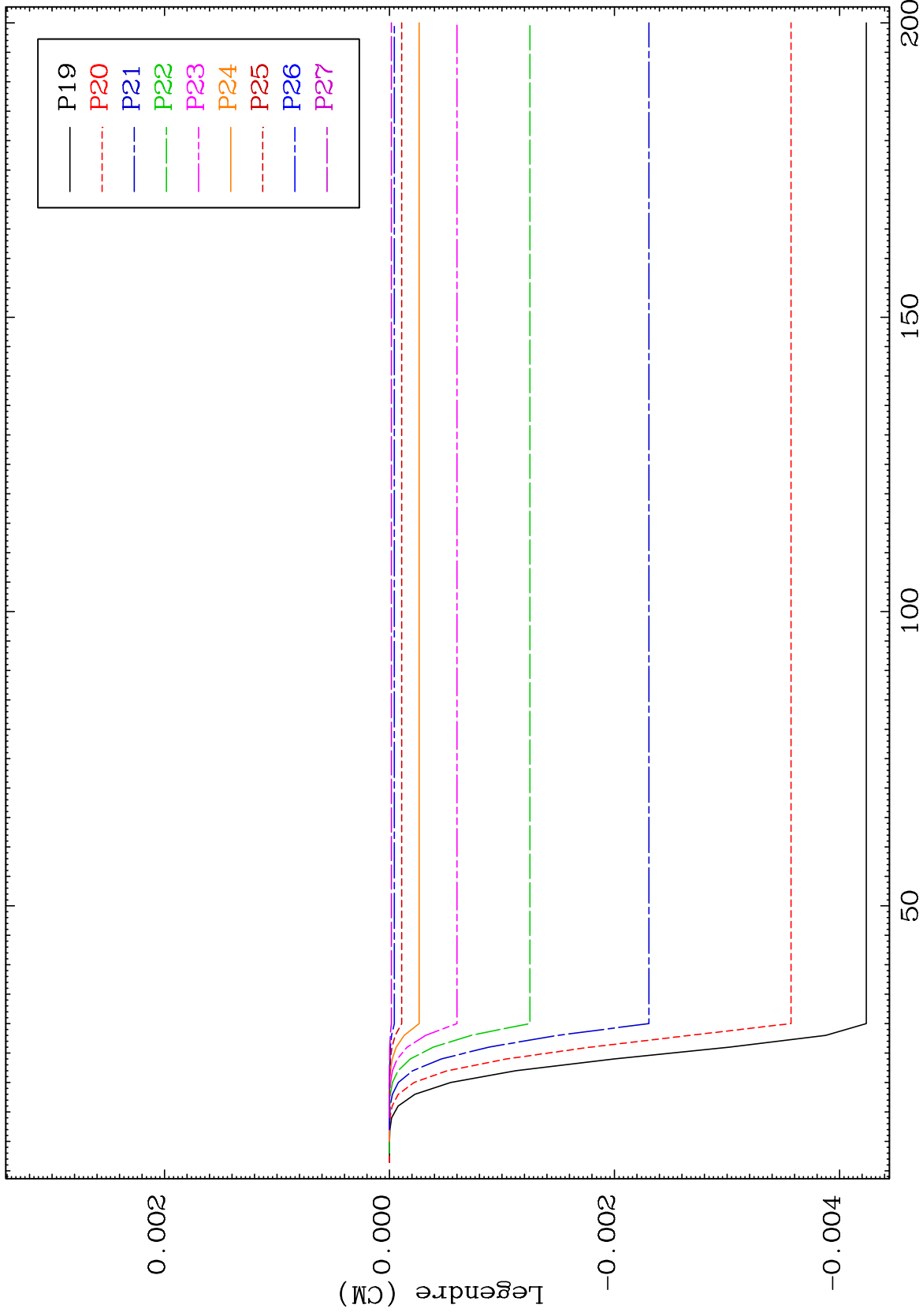




MAT 6304

974.8 keV (n,n') Level
Legendre Coefficients

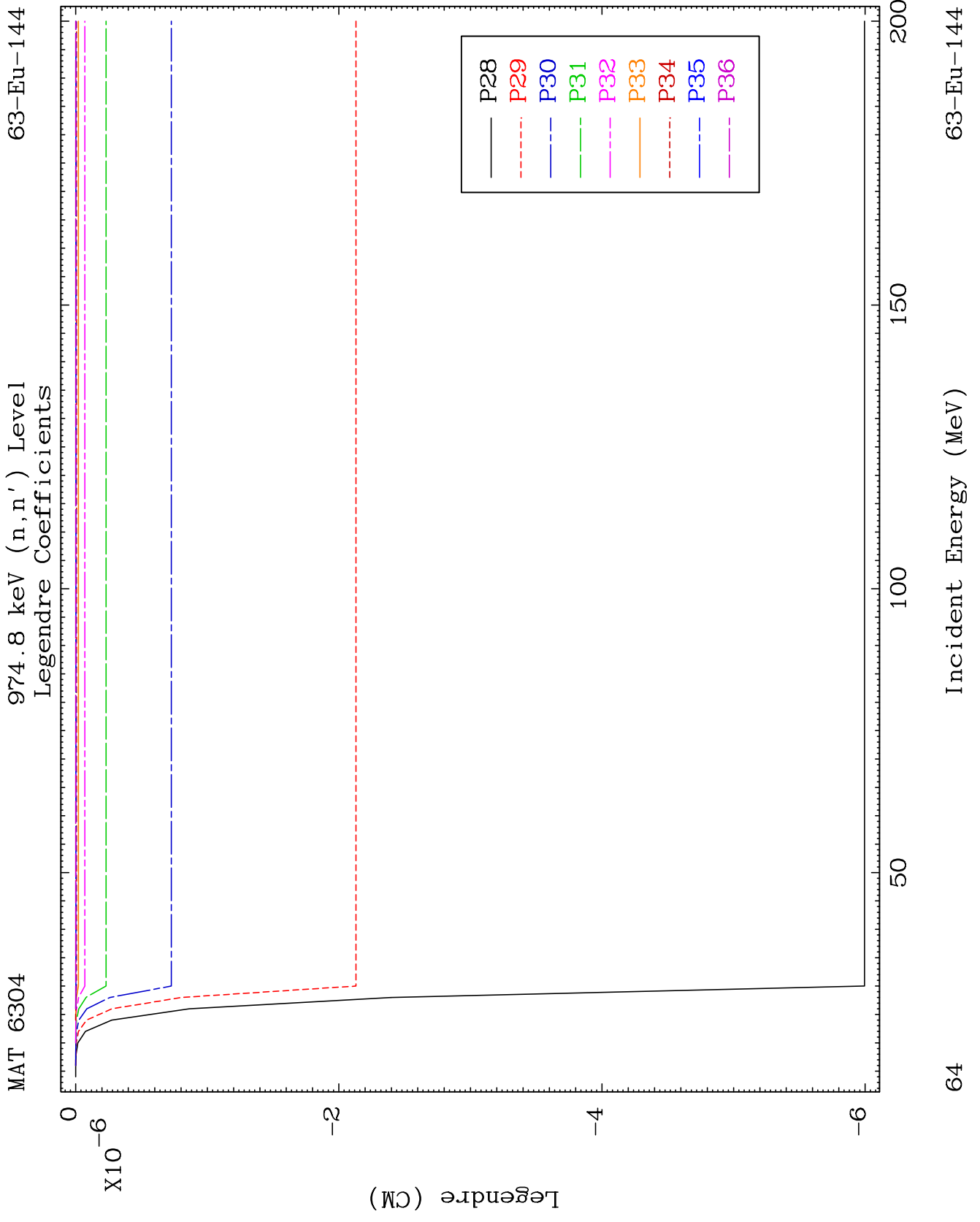
63-Eu-144

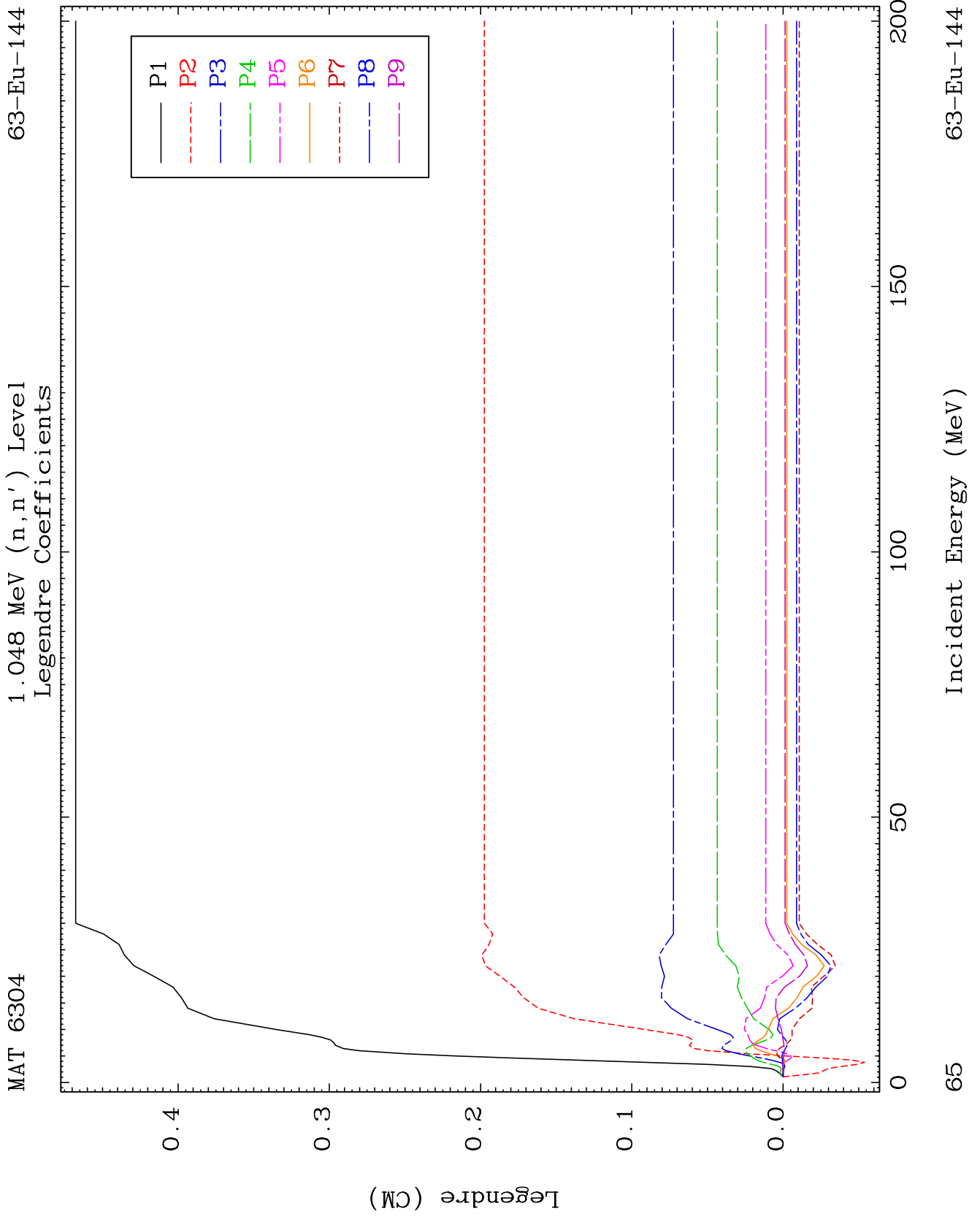


63

Incident Energy (MeV)

63-Eu-144

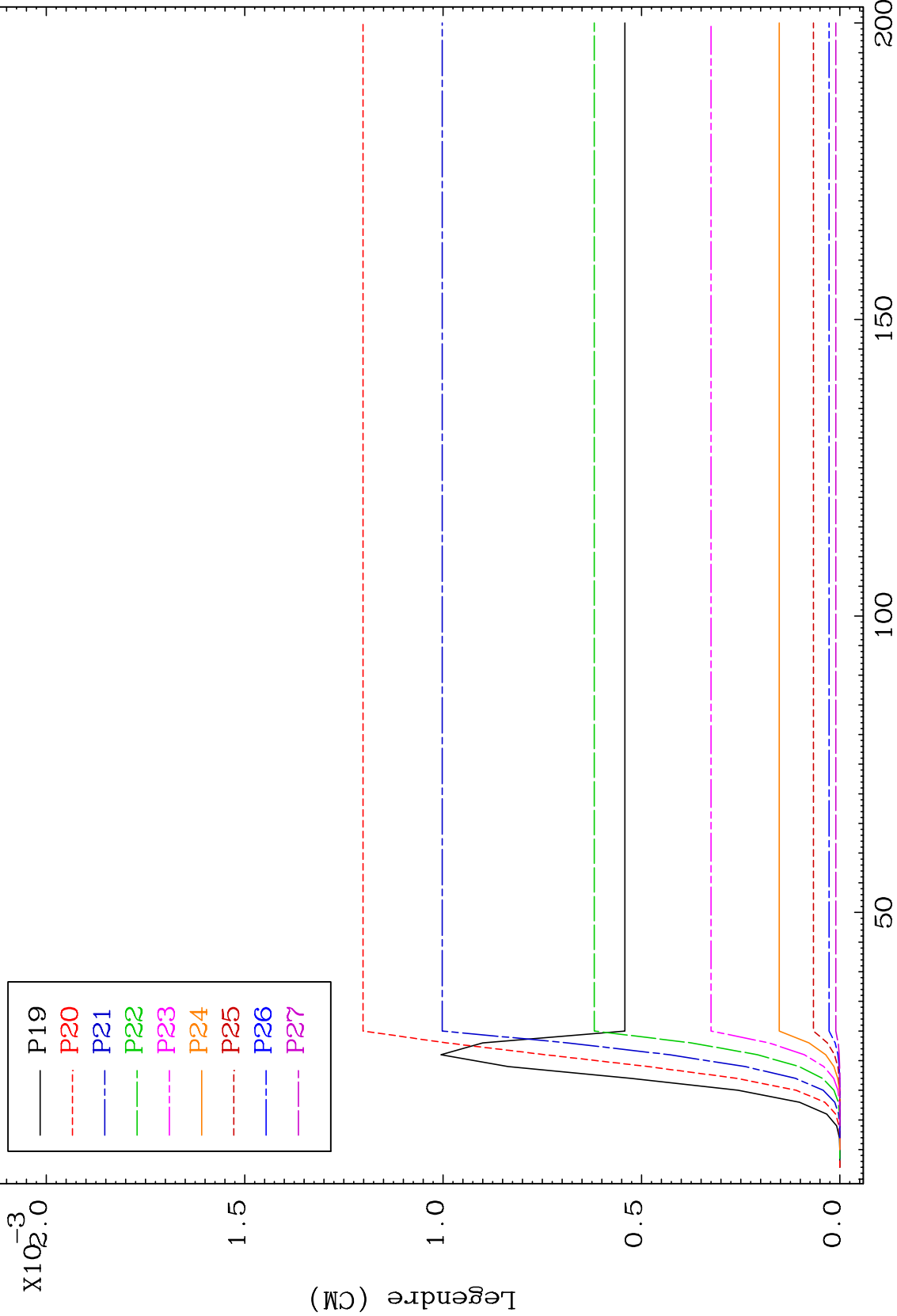
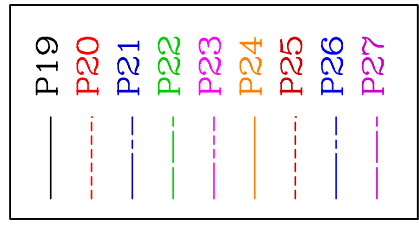




MAT 6304

1.048 MeV (n, n') Level
Legendre Coefficients

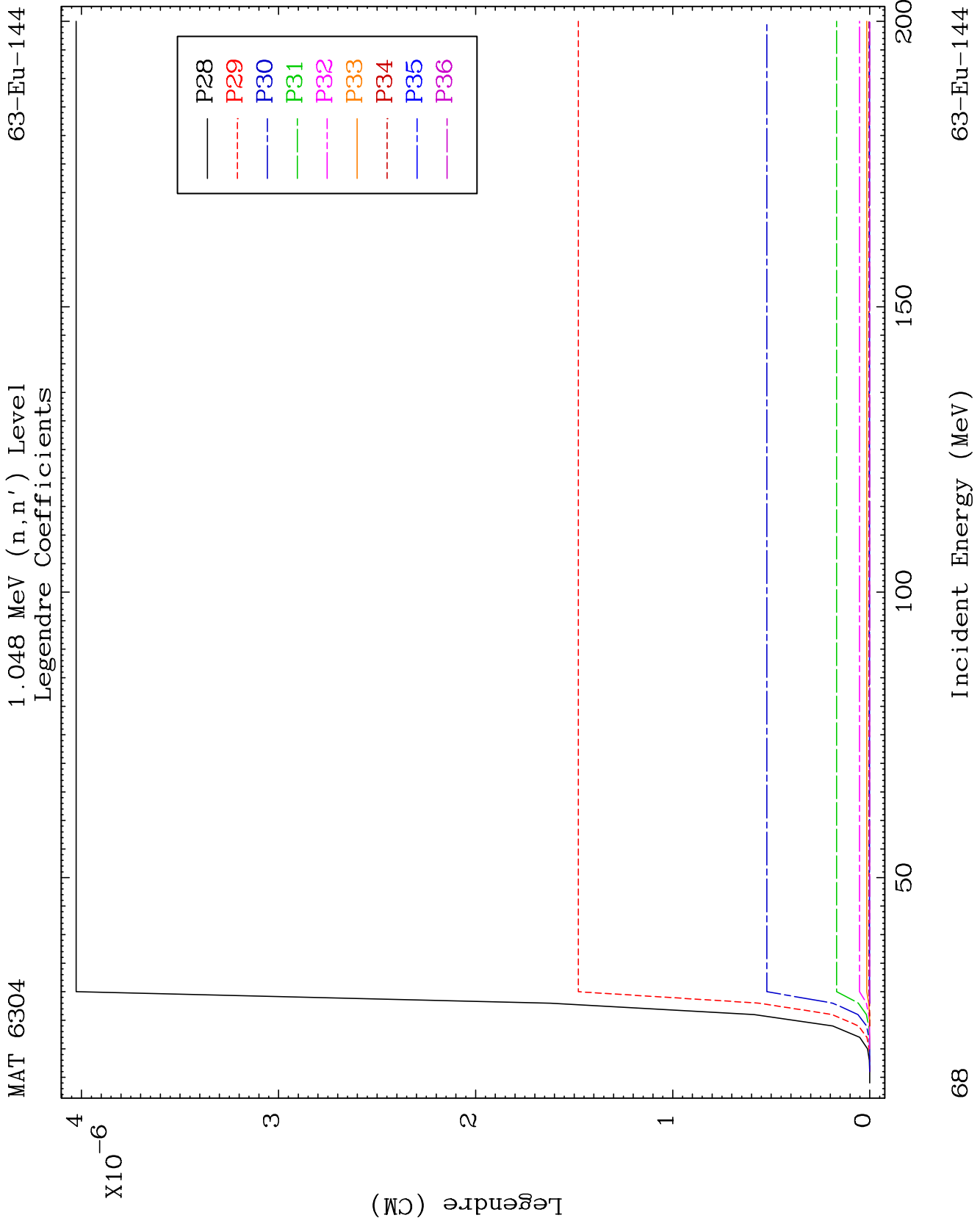
63-Eu-144

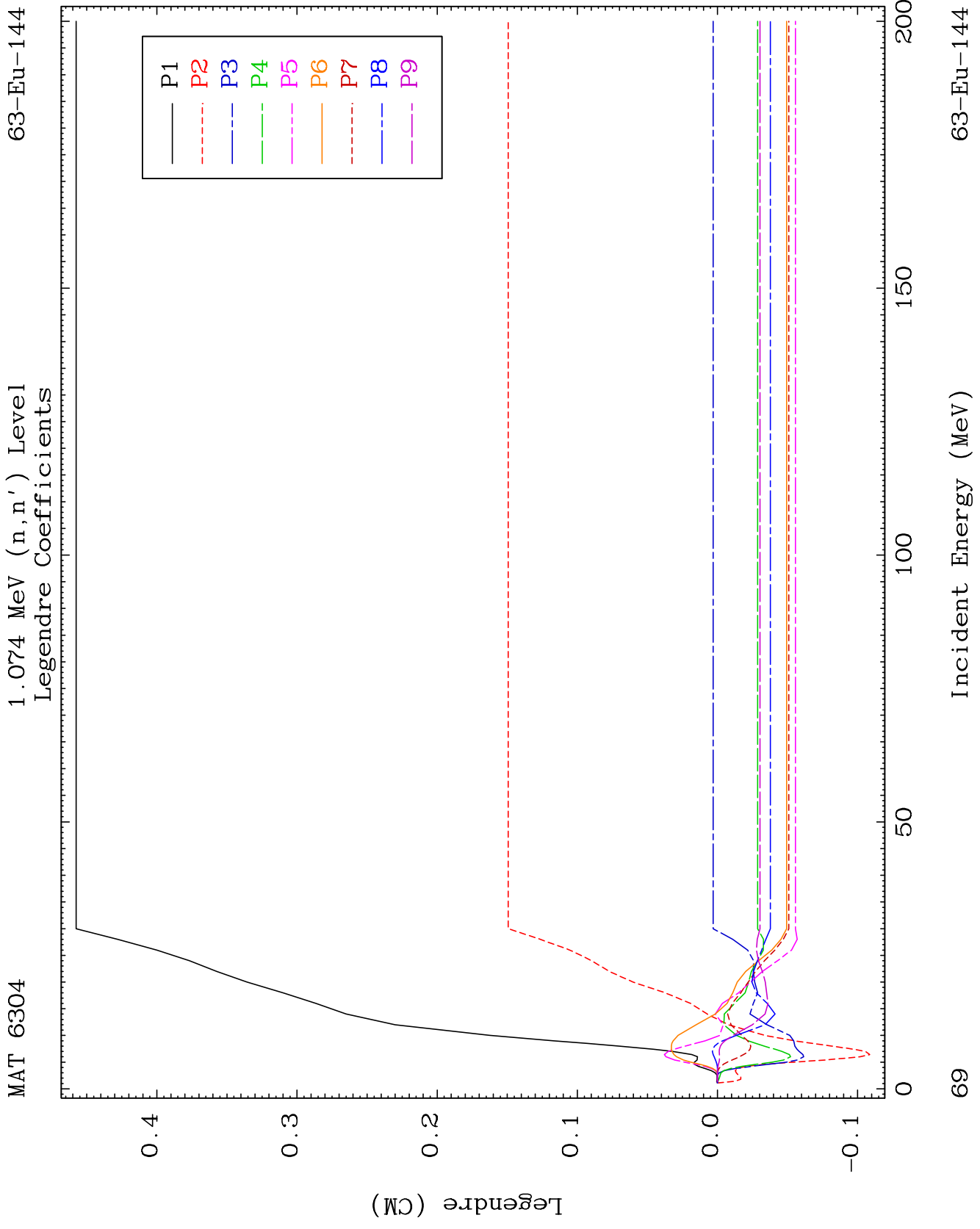


67

Incident Energy (MeV)

63-Eu-144

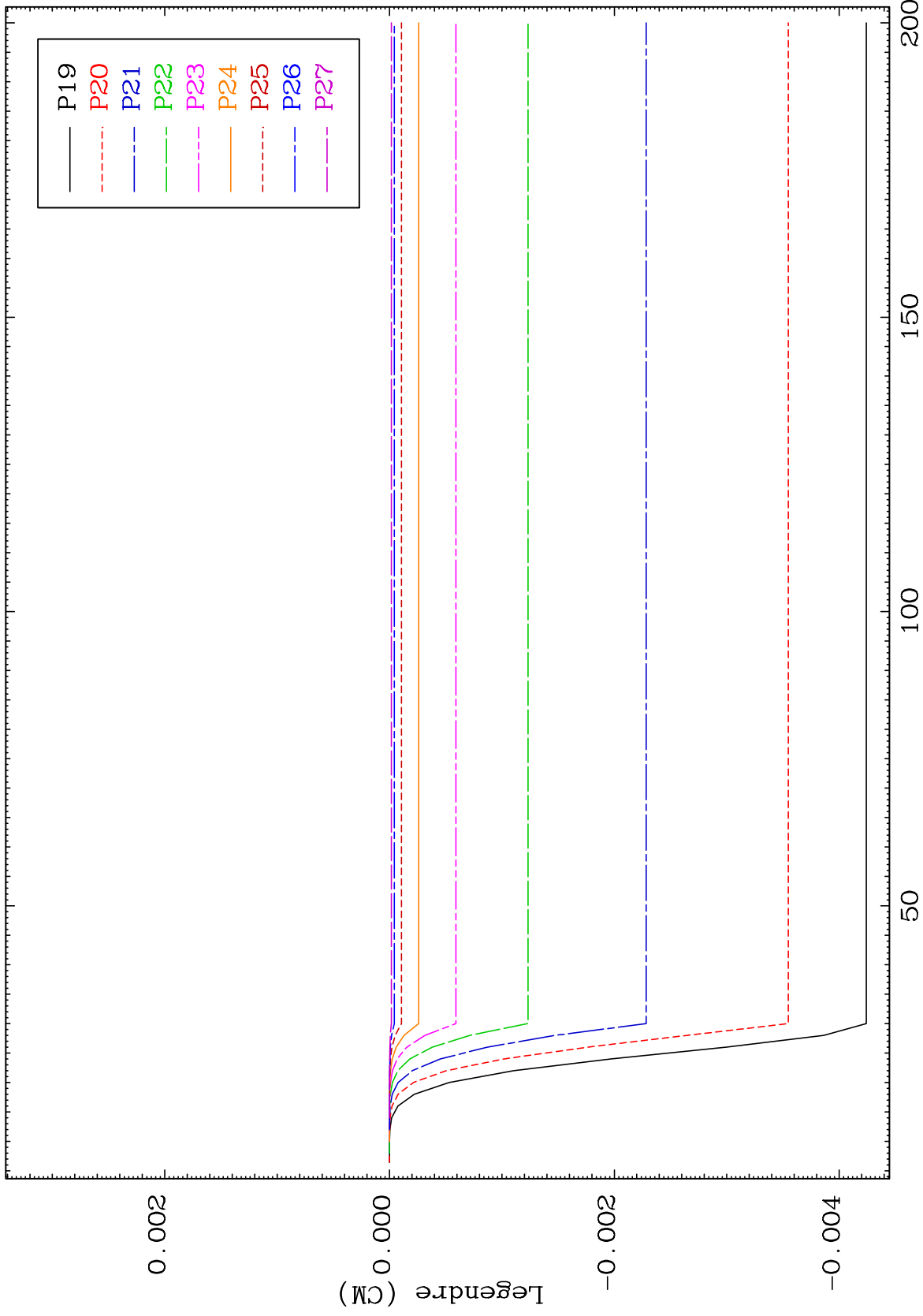




MAT 6304

1.074 MeV (n,n') Level
Legendre Coefficients

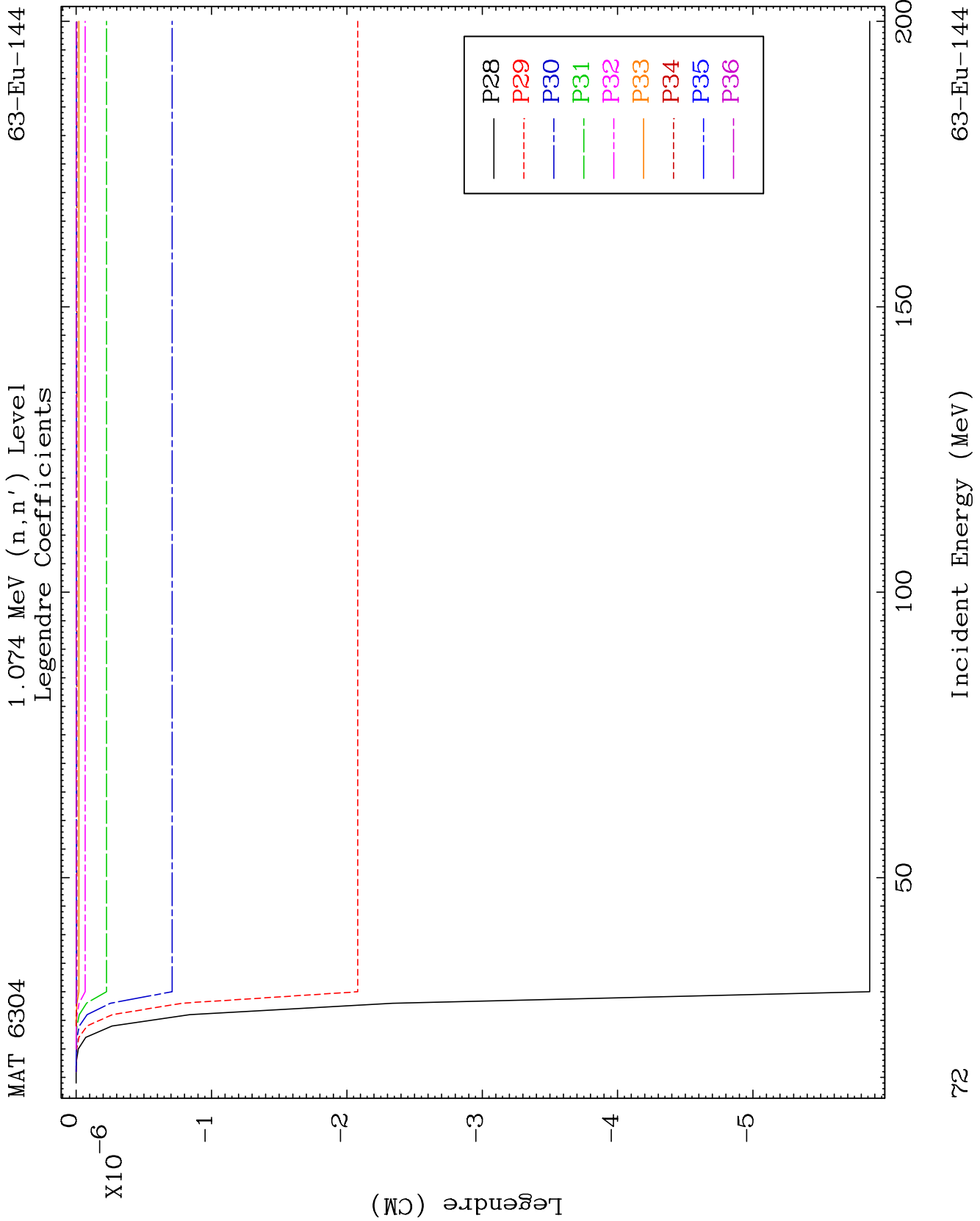
63-Eu-144



71

Incident Energy (MeV)

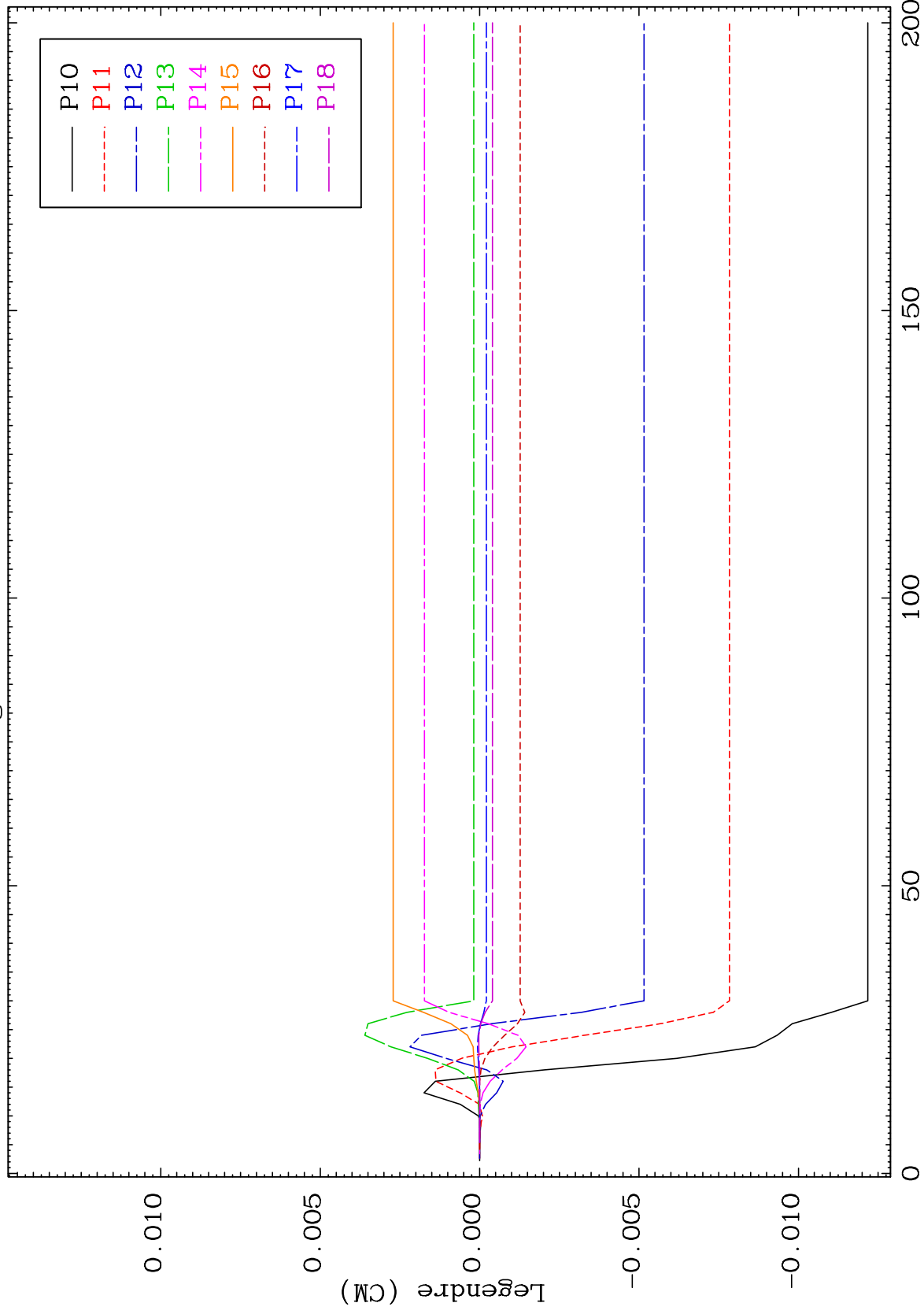
63-Eu-144



MAT 6304

1.120 MeV (n,n') Level
Legendre Coefficients

63-Eu-144

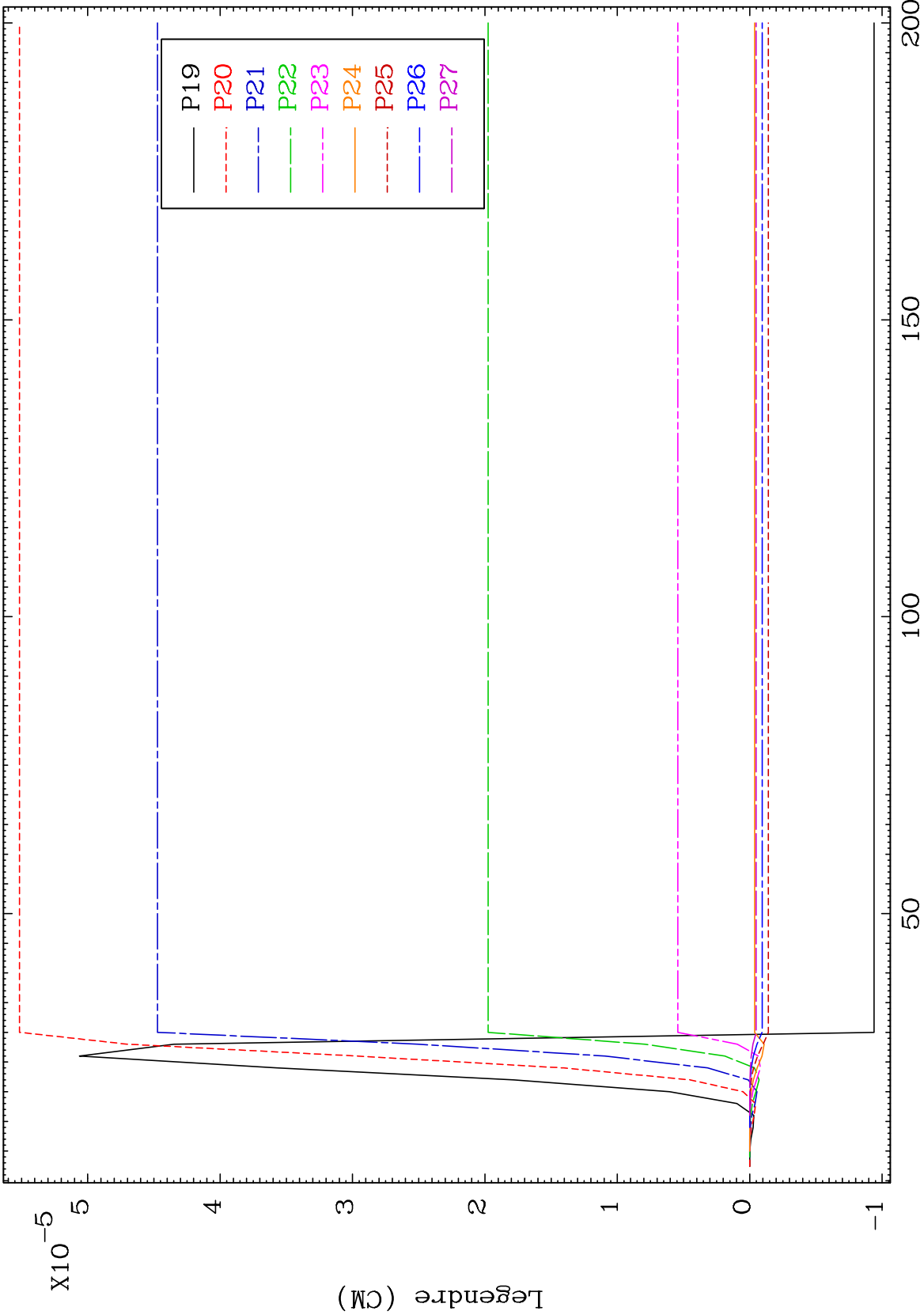


74

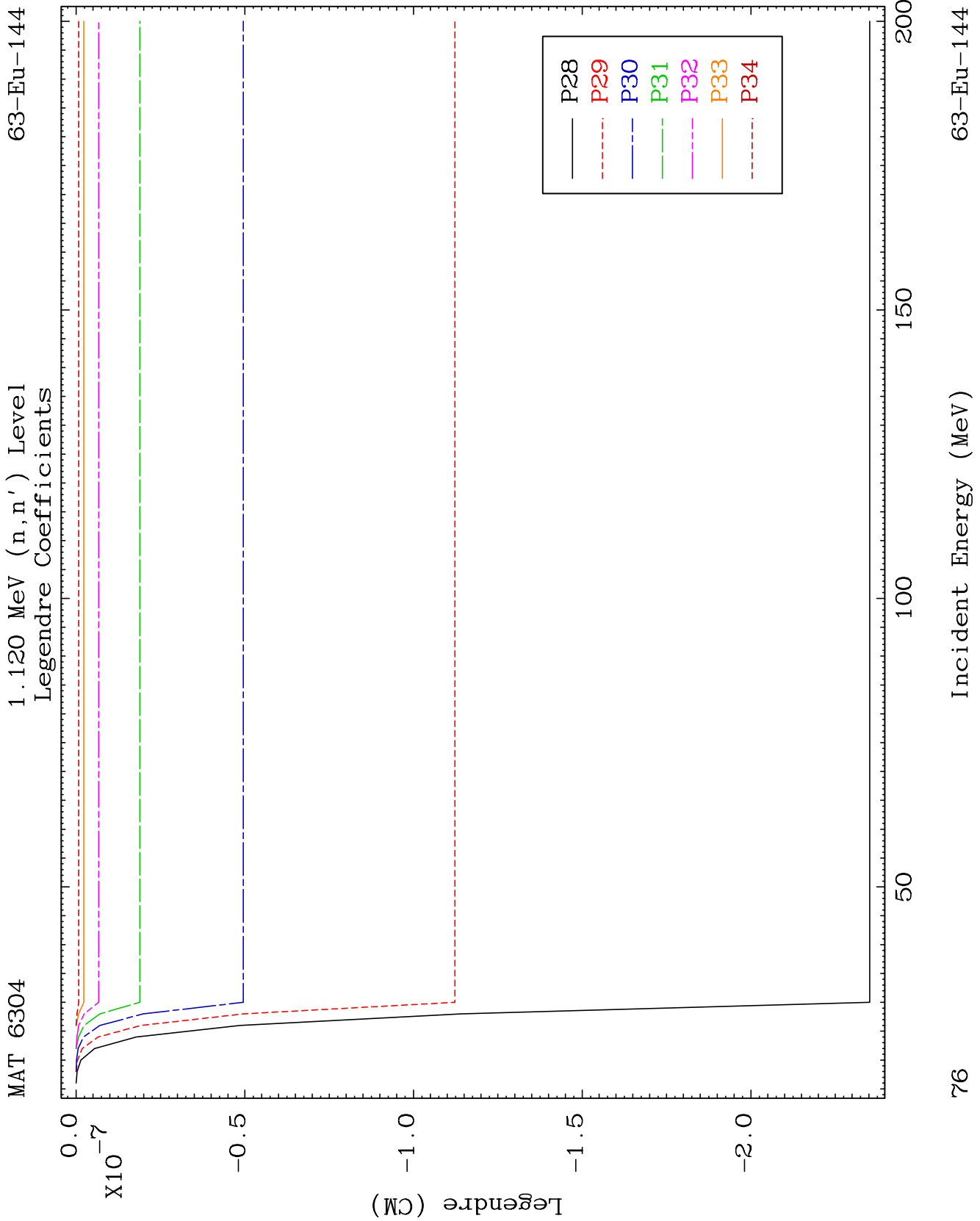
Incident Energy (MeV)

63-Eu-144

MAT 6304 1.120 MeV (n,n') Level 63-Eu-144



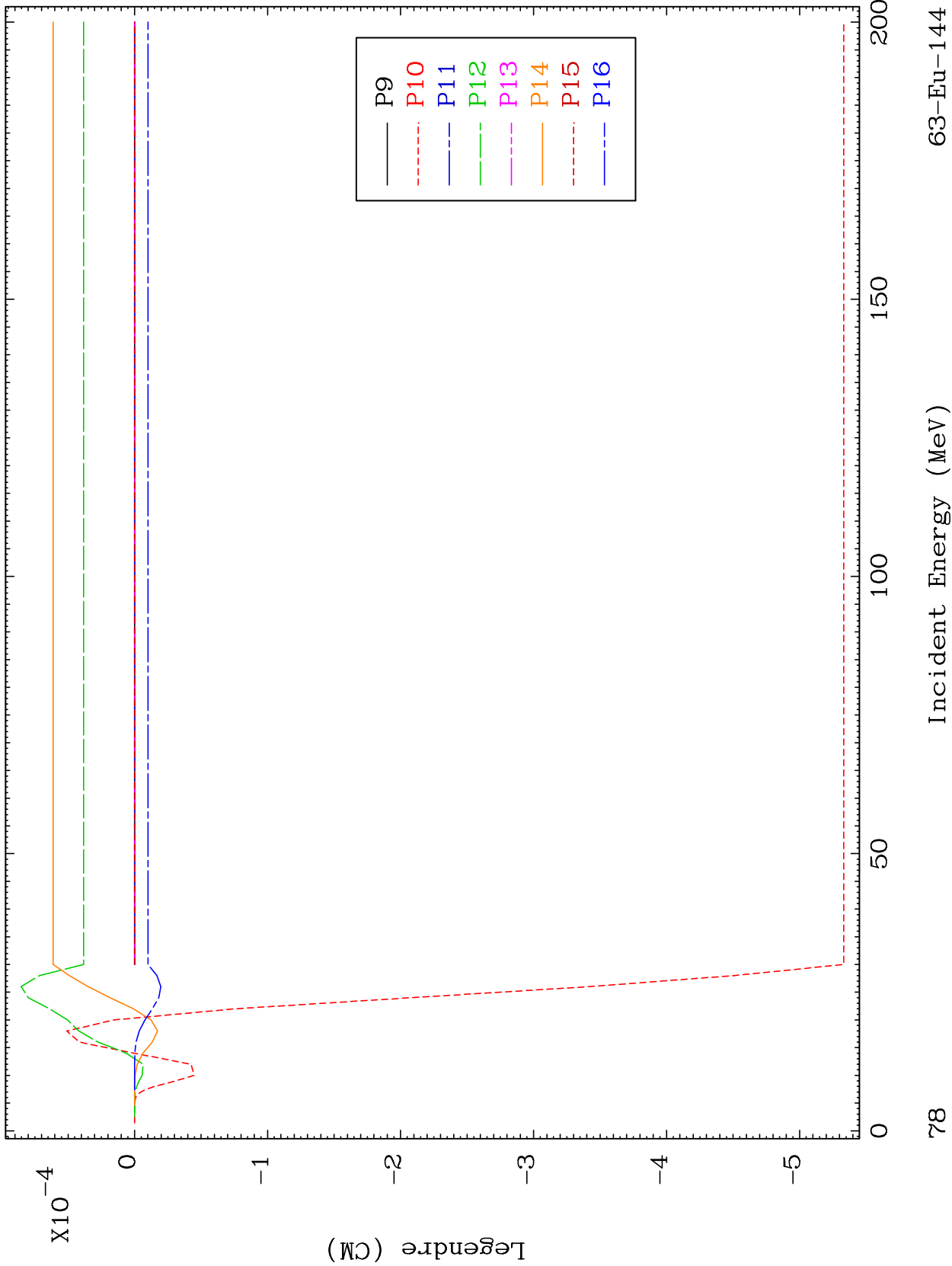
75 50 100 150 200 63-Eu-144



MAT 6304

1.128 MeV (n,n') Level
Legendre Coefficients

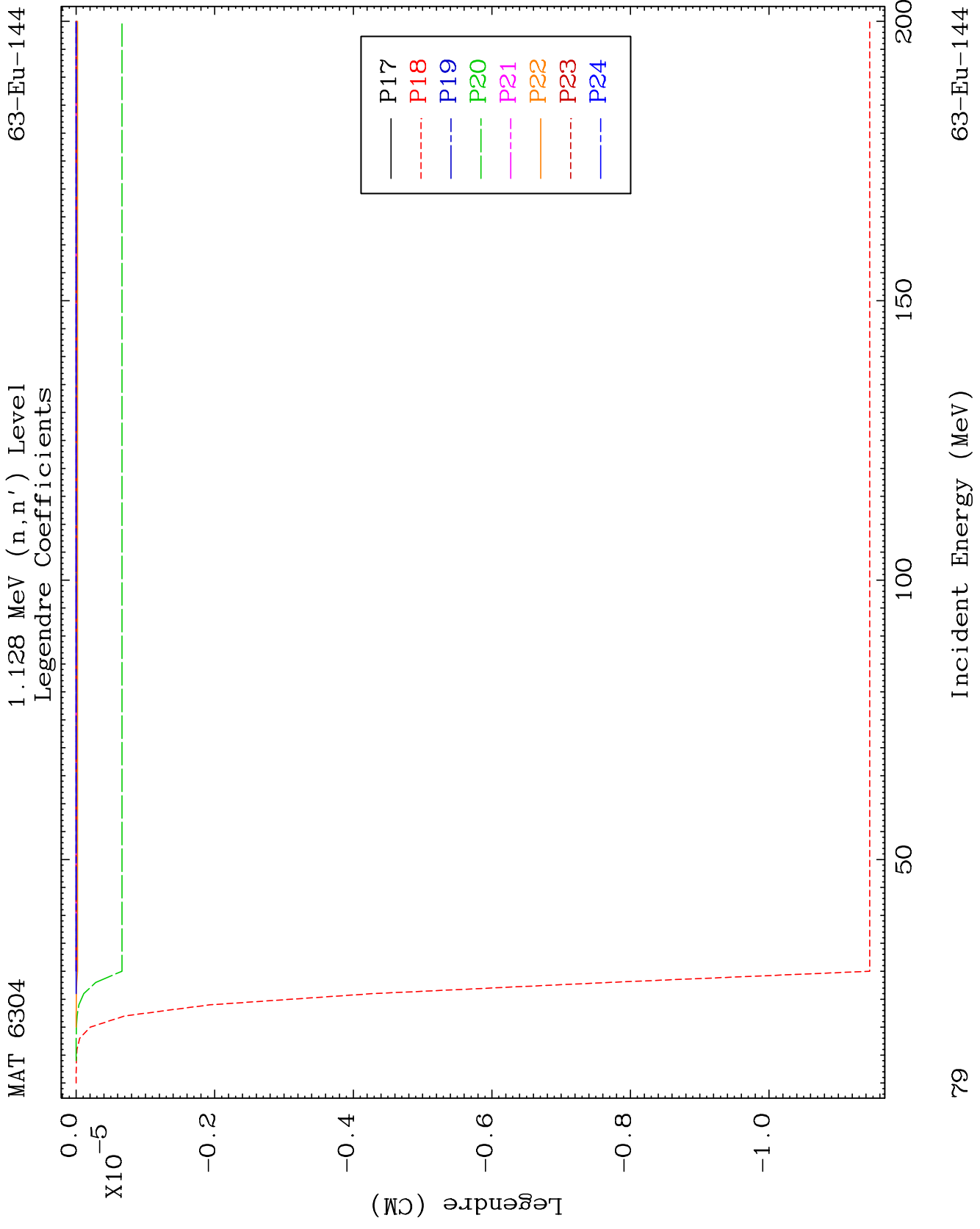
63-Eu-144

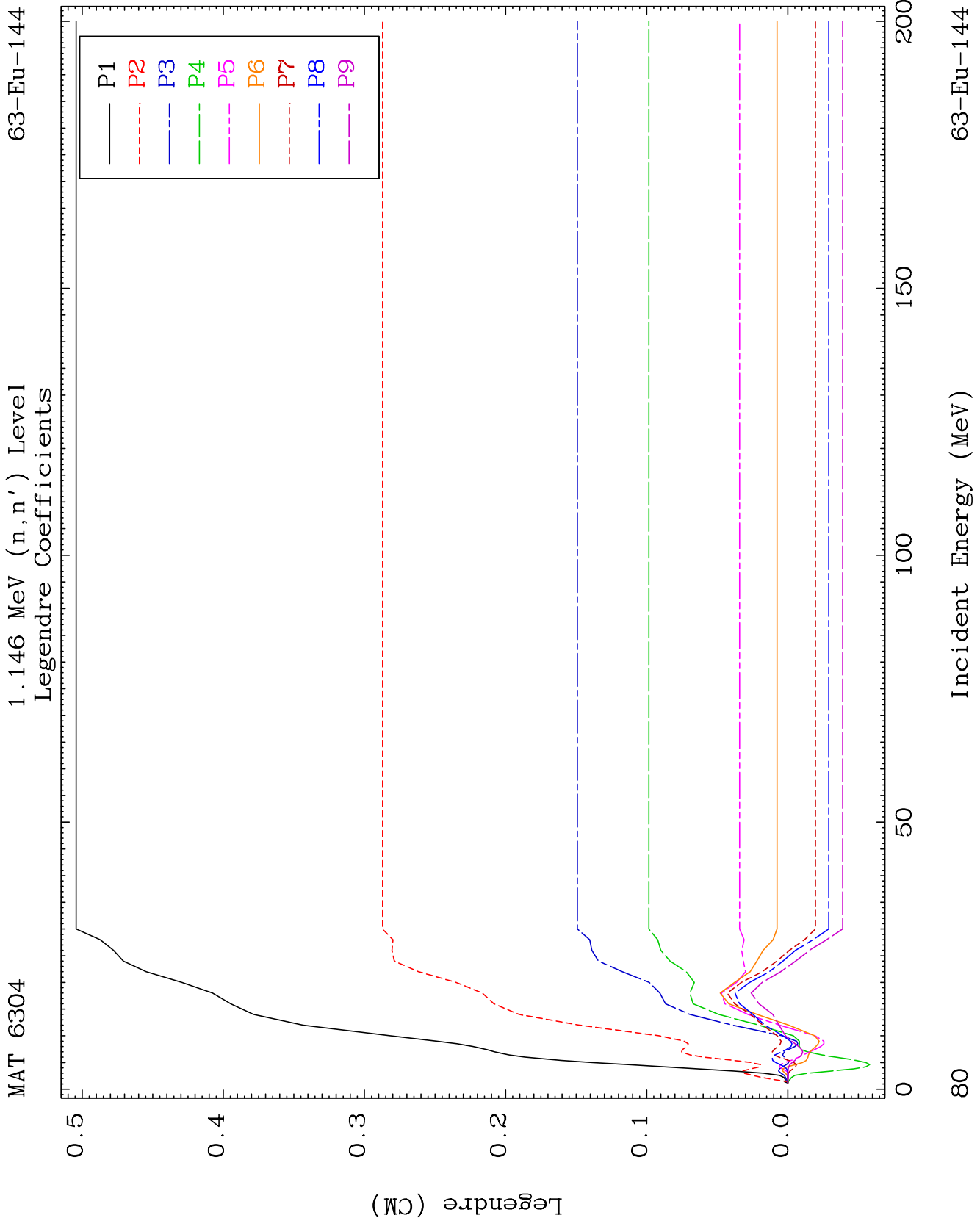


78

Incident Energy (MeV)

63-Eu-144

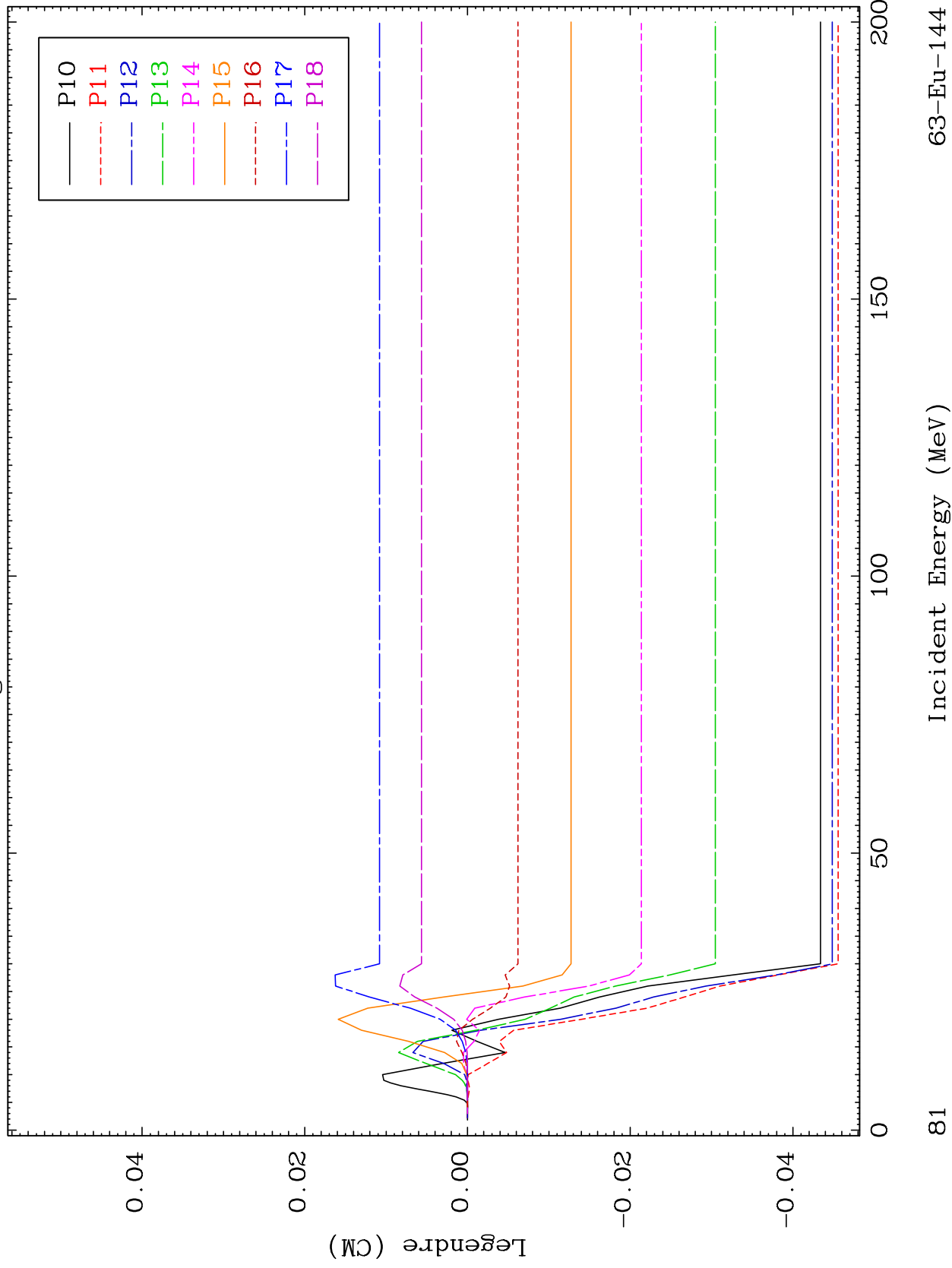




MAT 6304

1.146 MeV (n,n') Level
Legendre Coefficients

63-Eu-144

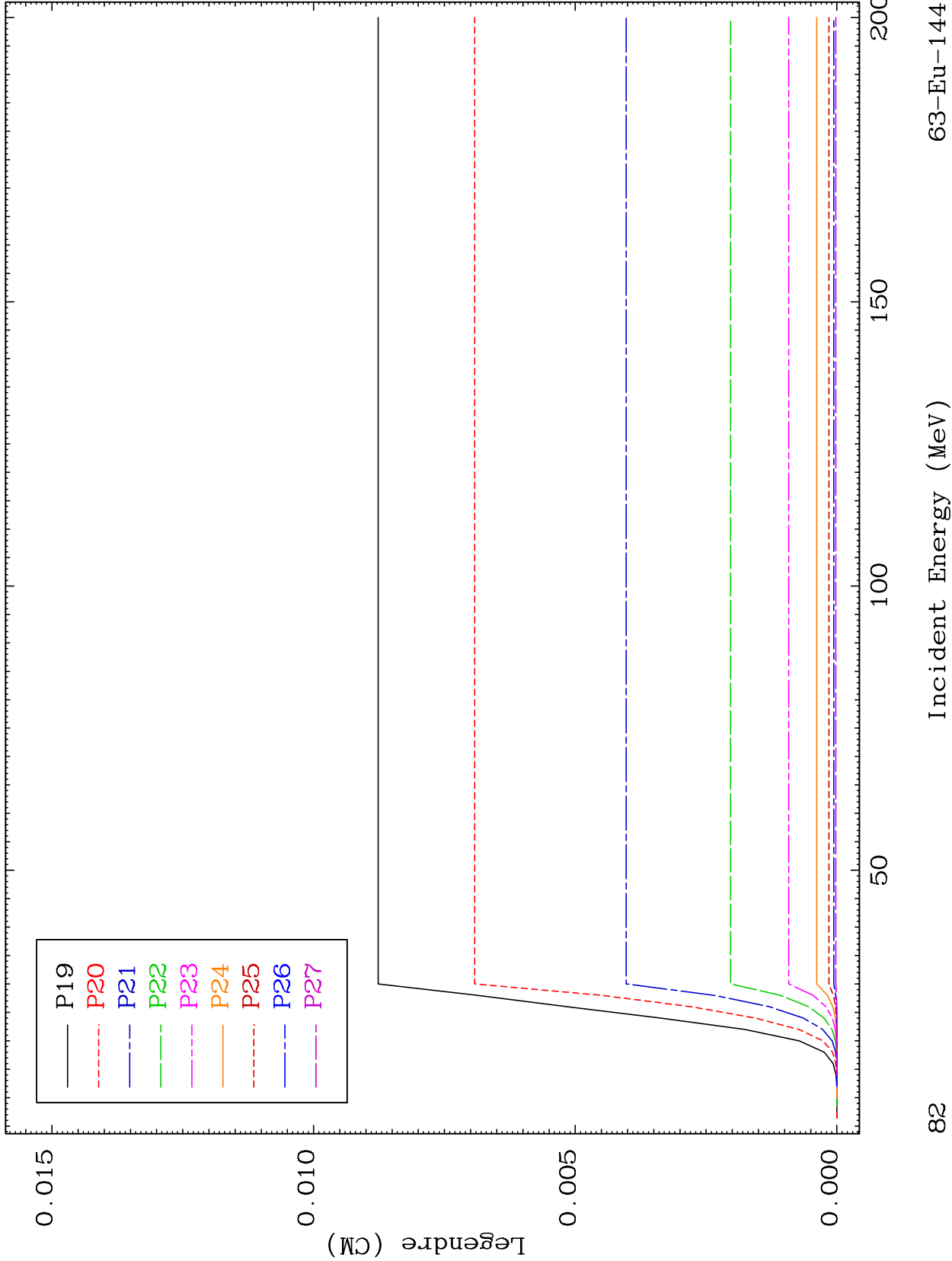


81

MAT 6304

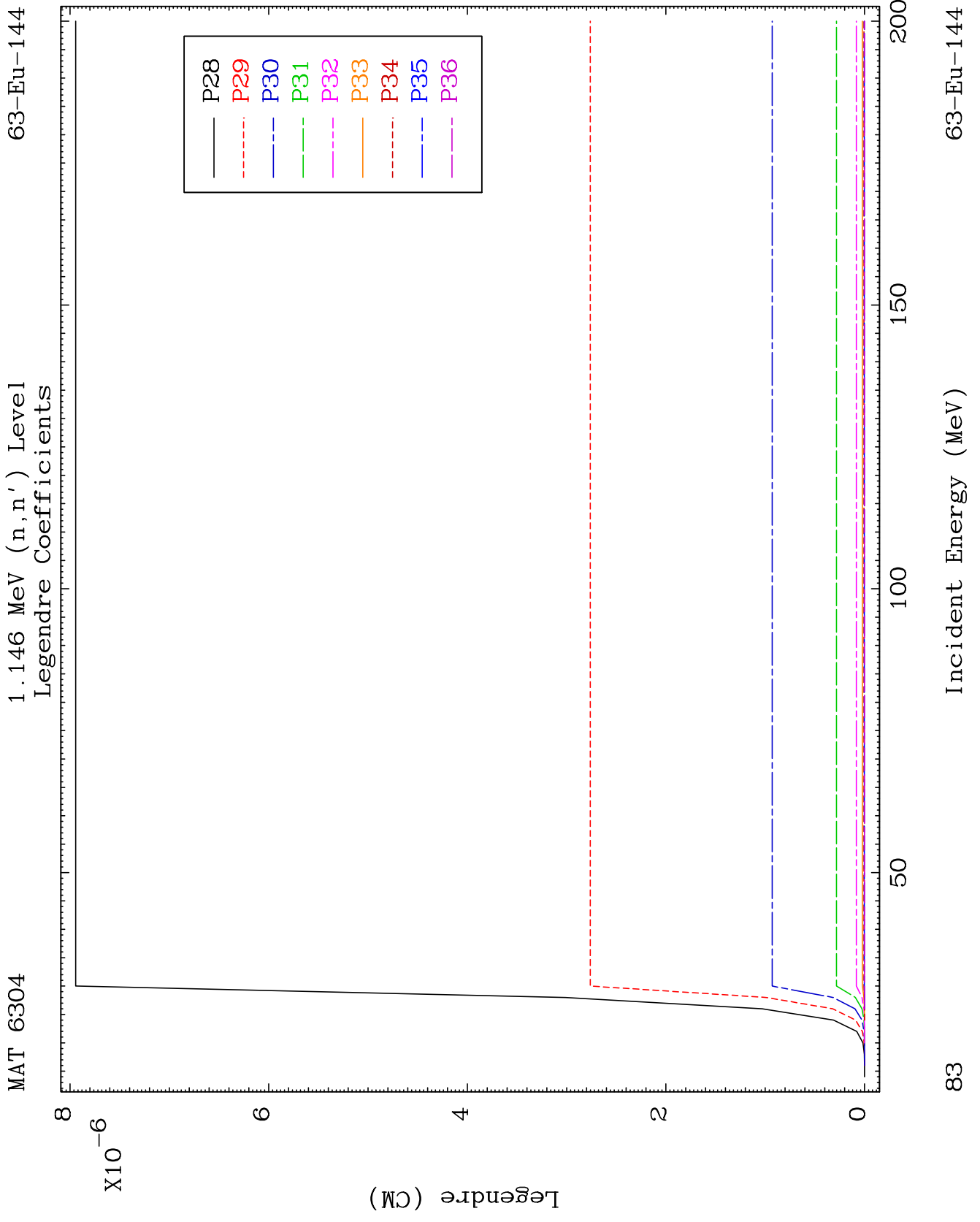
1.146 MeV (n, n') Level
Legendre Coefficients

63-Eu-144



82

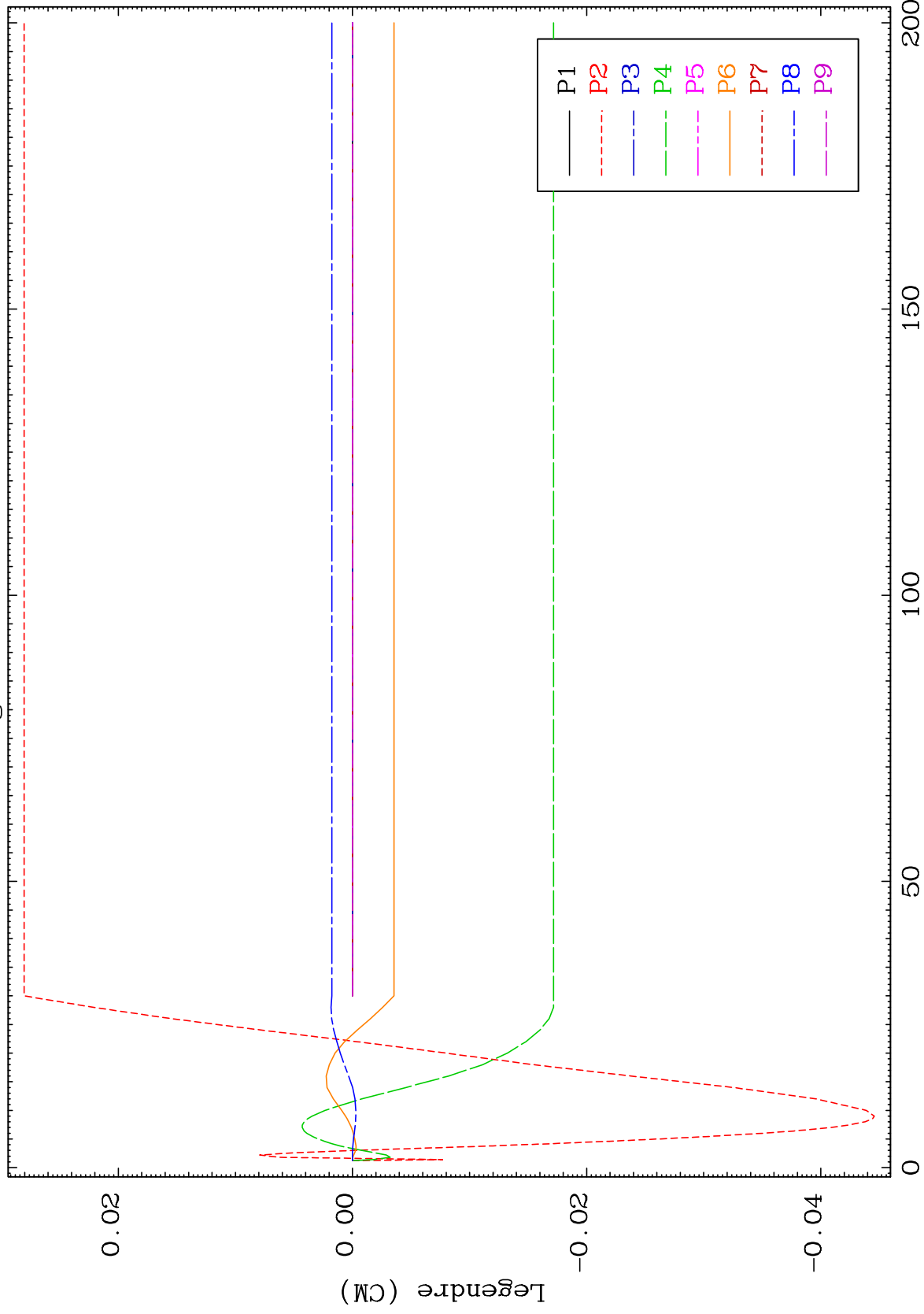
63-Eu-144



MAT 6304

1.194 MeV (n,n') Level
Legendre Coefficients

63-Eu-144



Incident Energy (MeV)

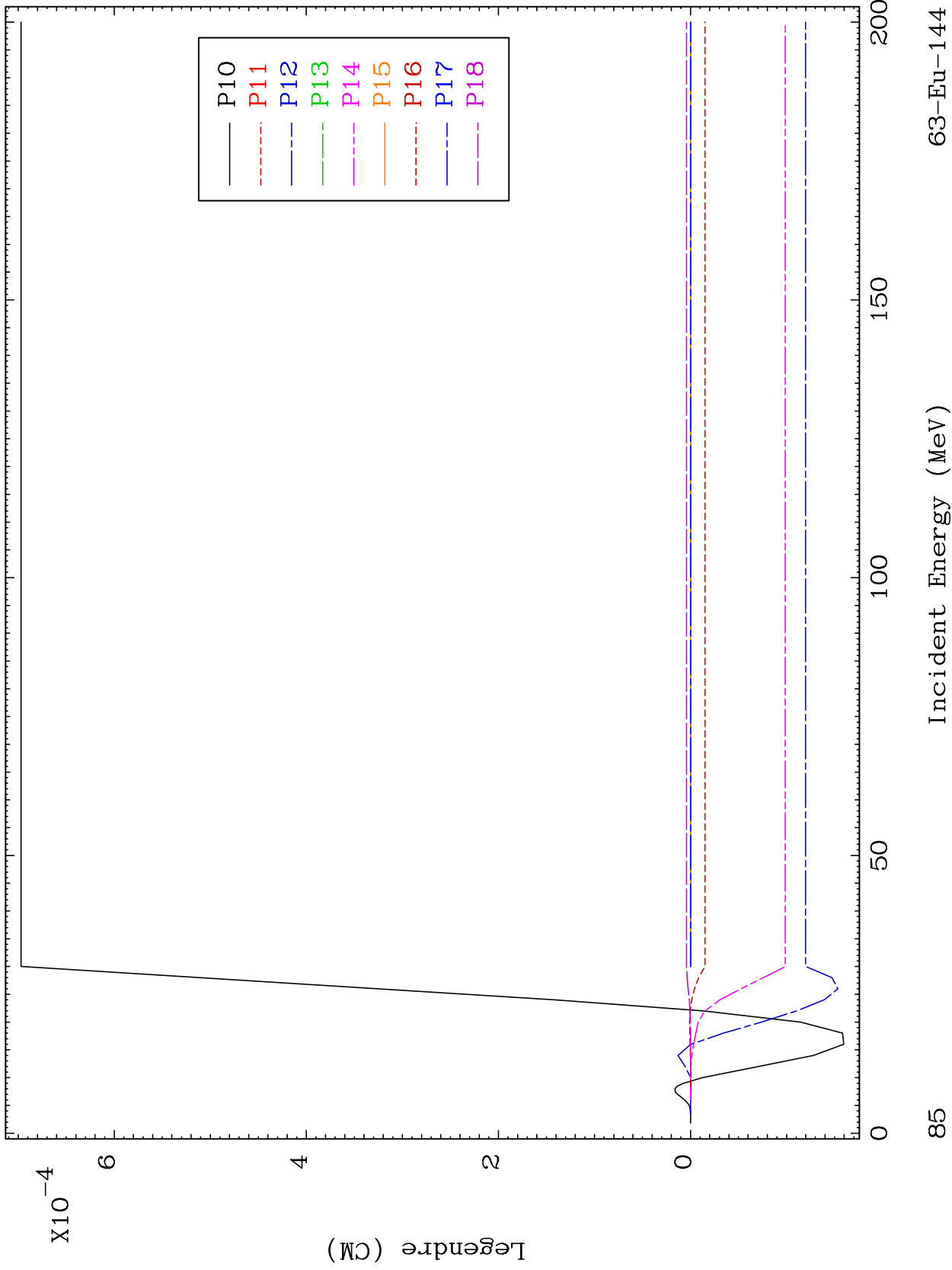
63-Eu-144

84

MAT 6304

1.194 MeV (n,n') Level
Legendre Coefficients

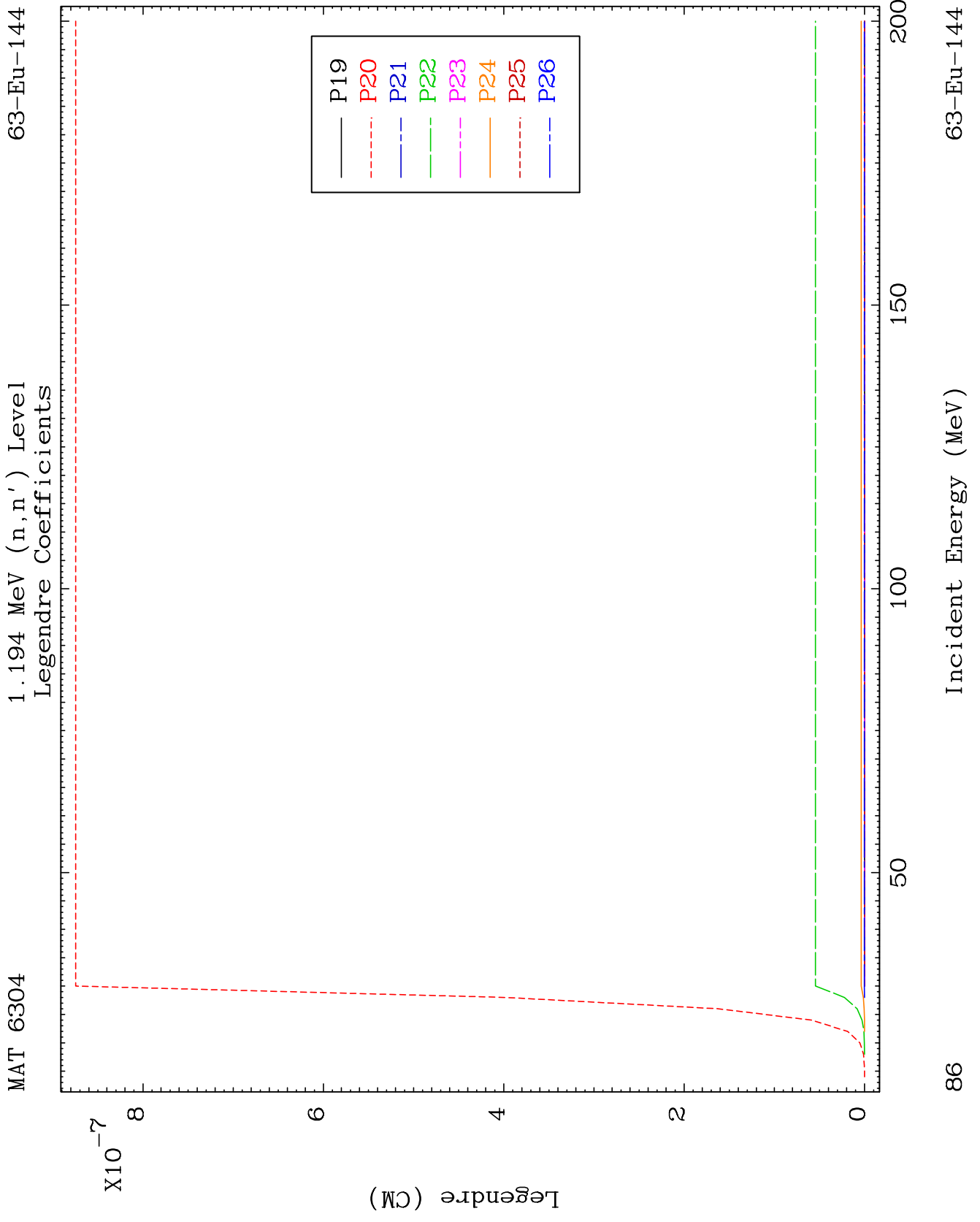
63-Eu-144

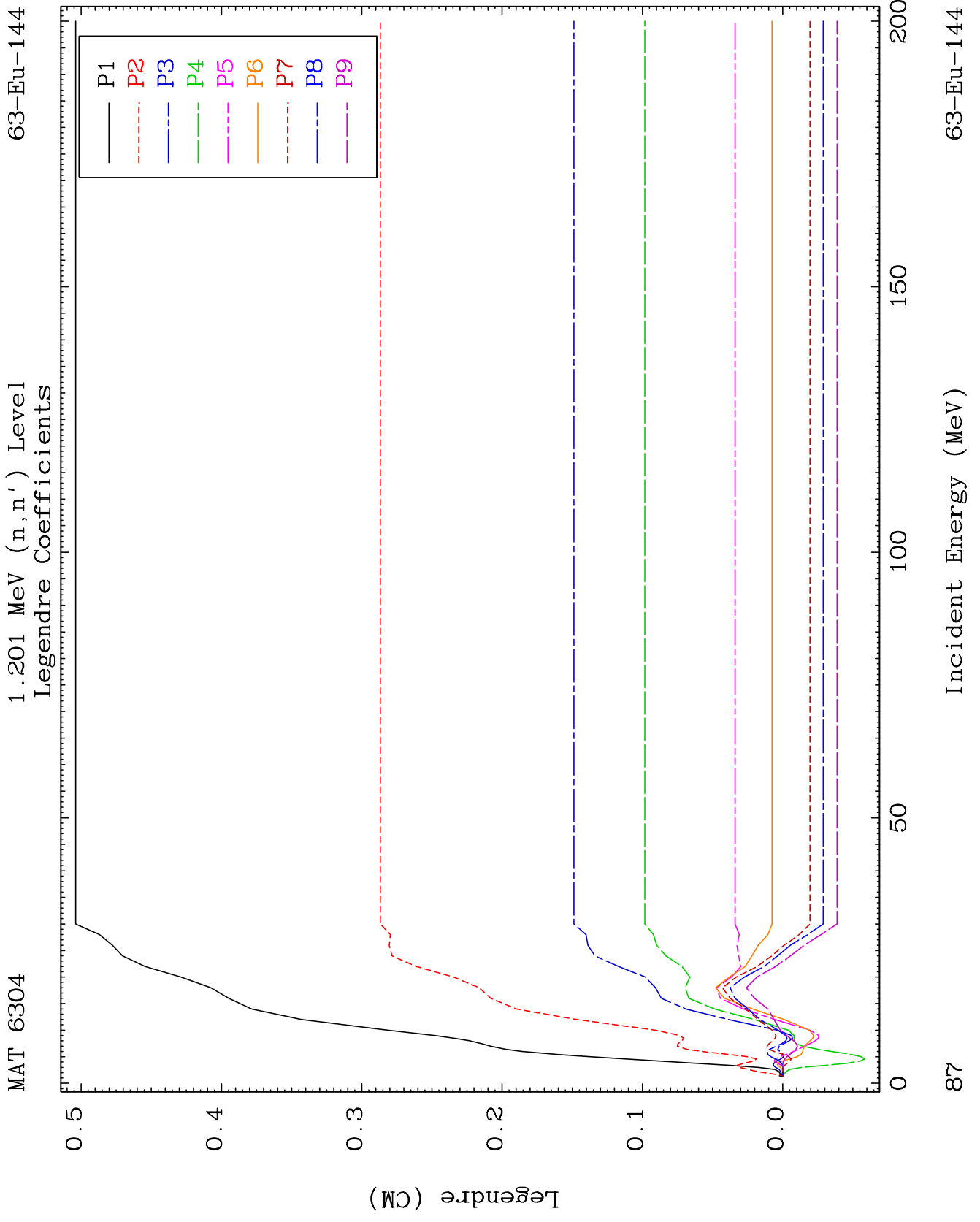


85

Incident Energy (MeV)

63-Eu-144

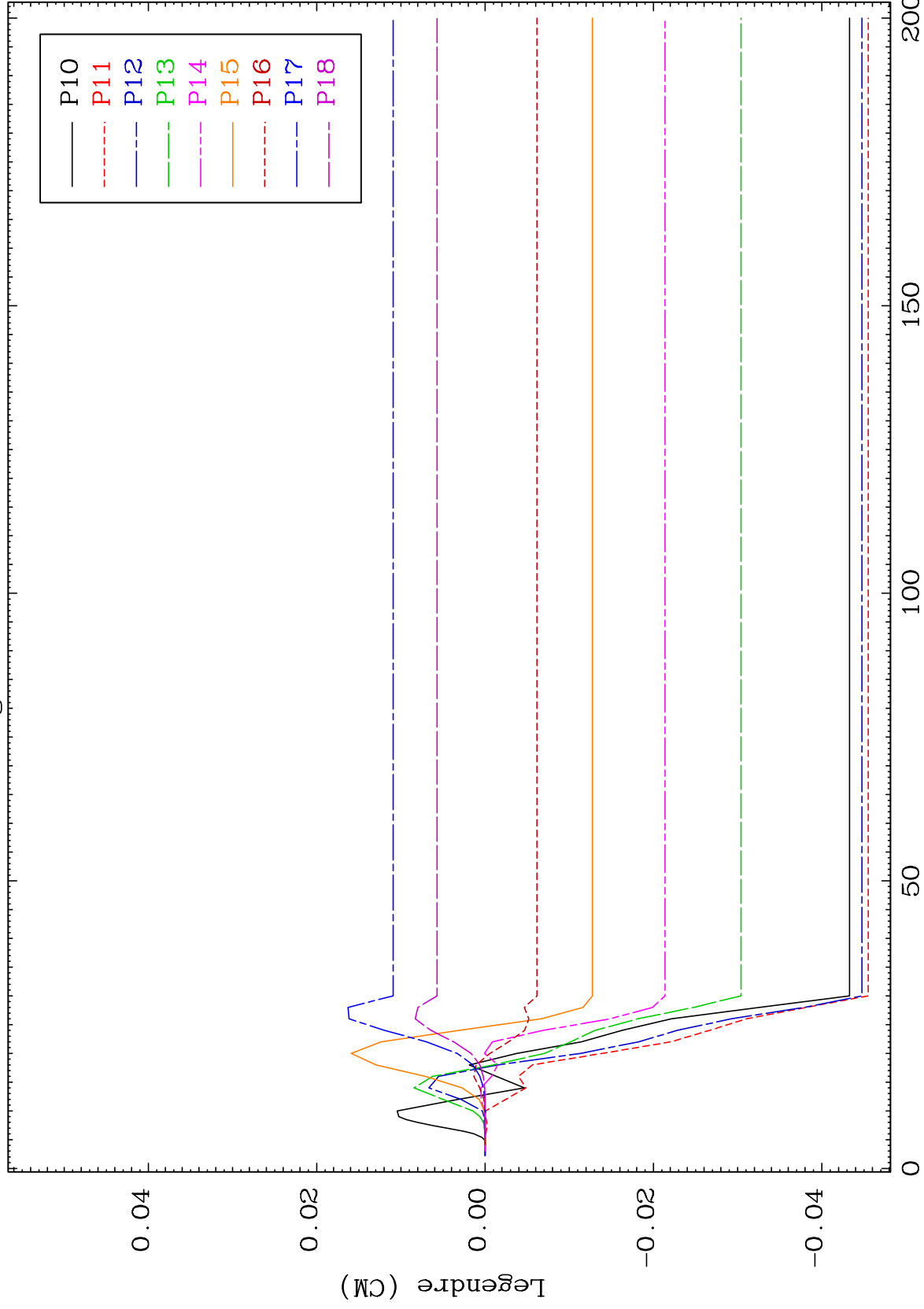




MAT 6304

1.201 MeV (n,n') Level
Legendre Coefficients

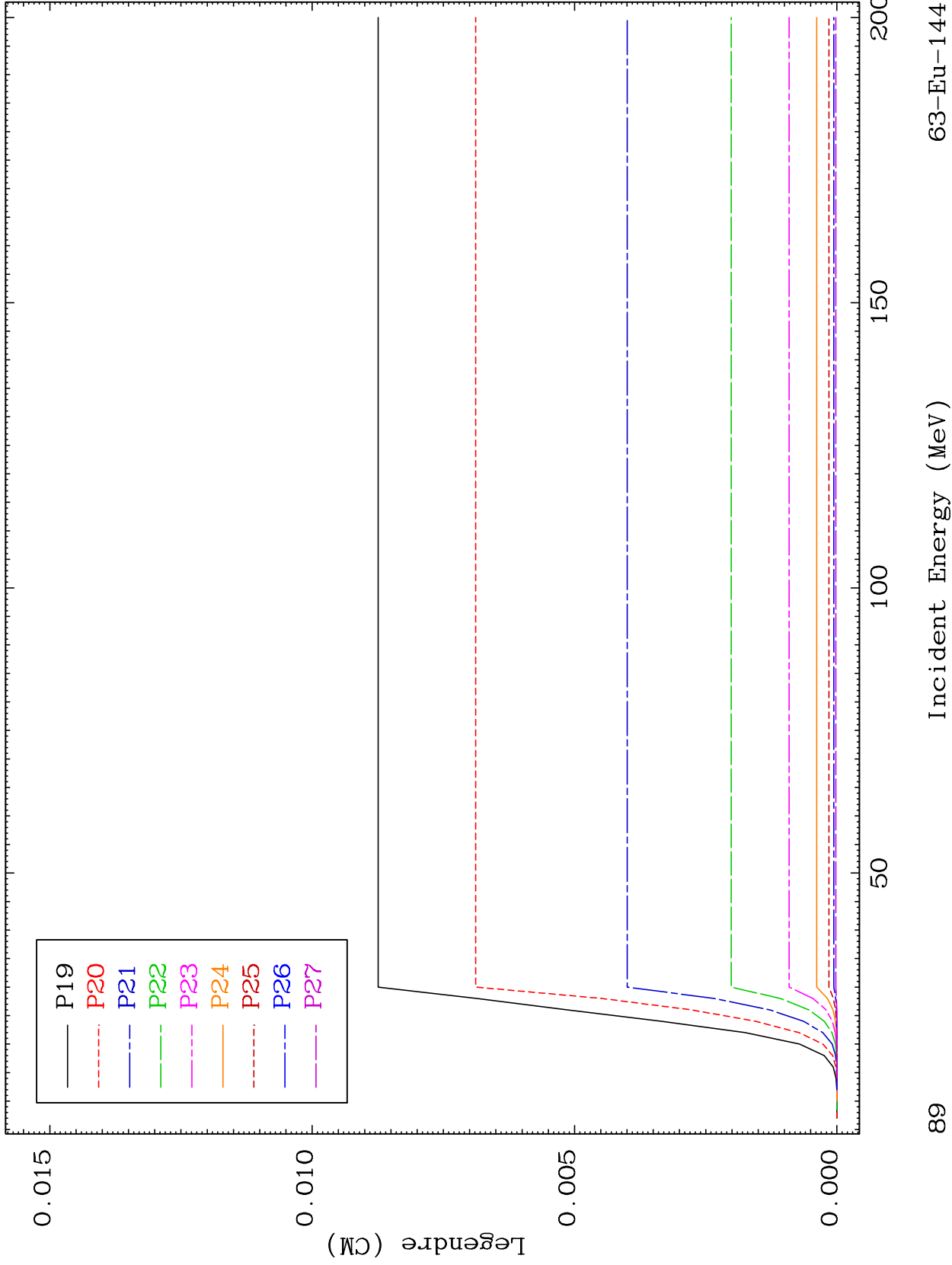
63-Eu-144

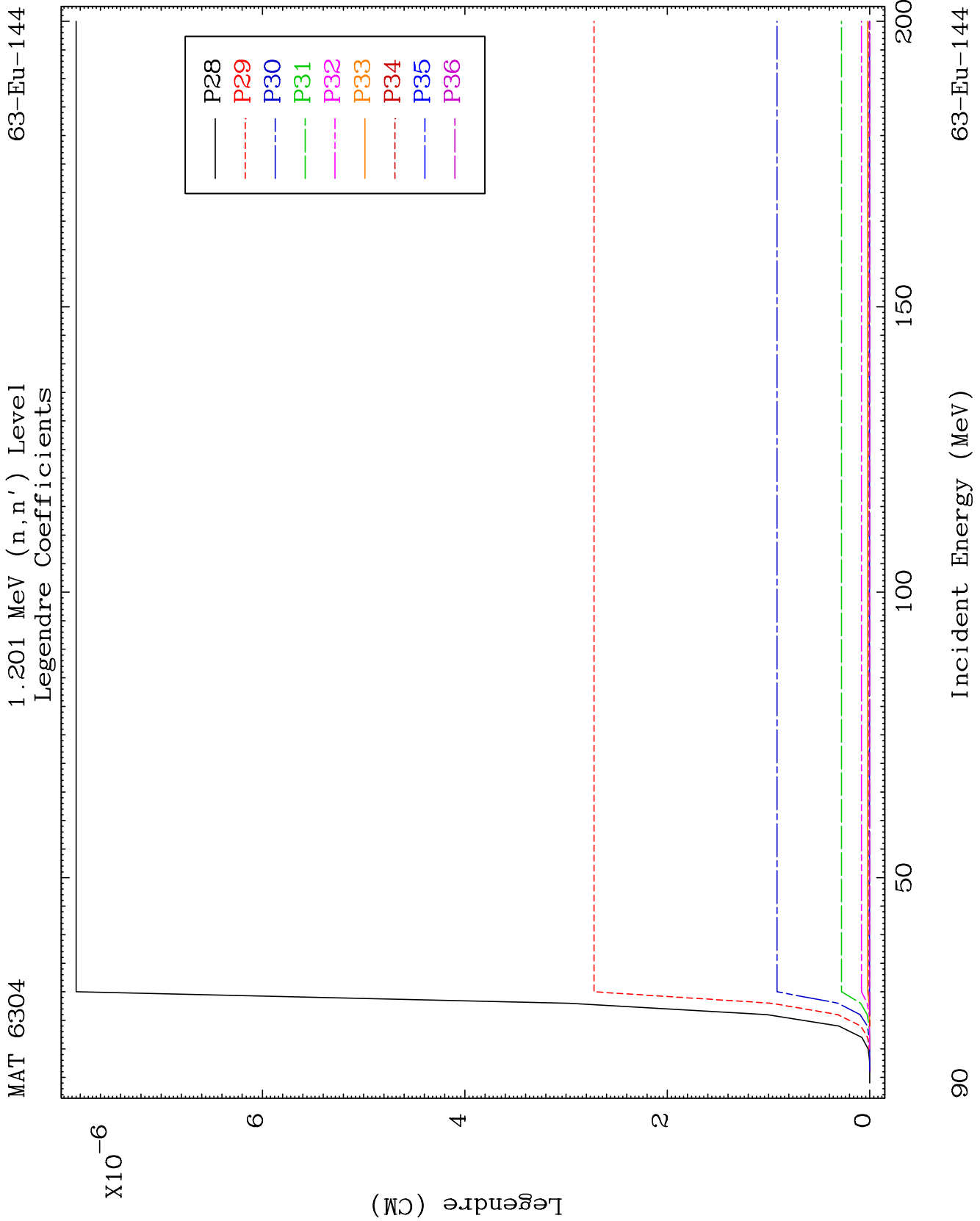


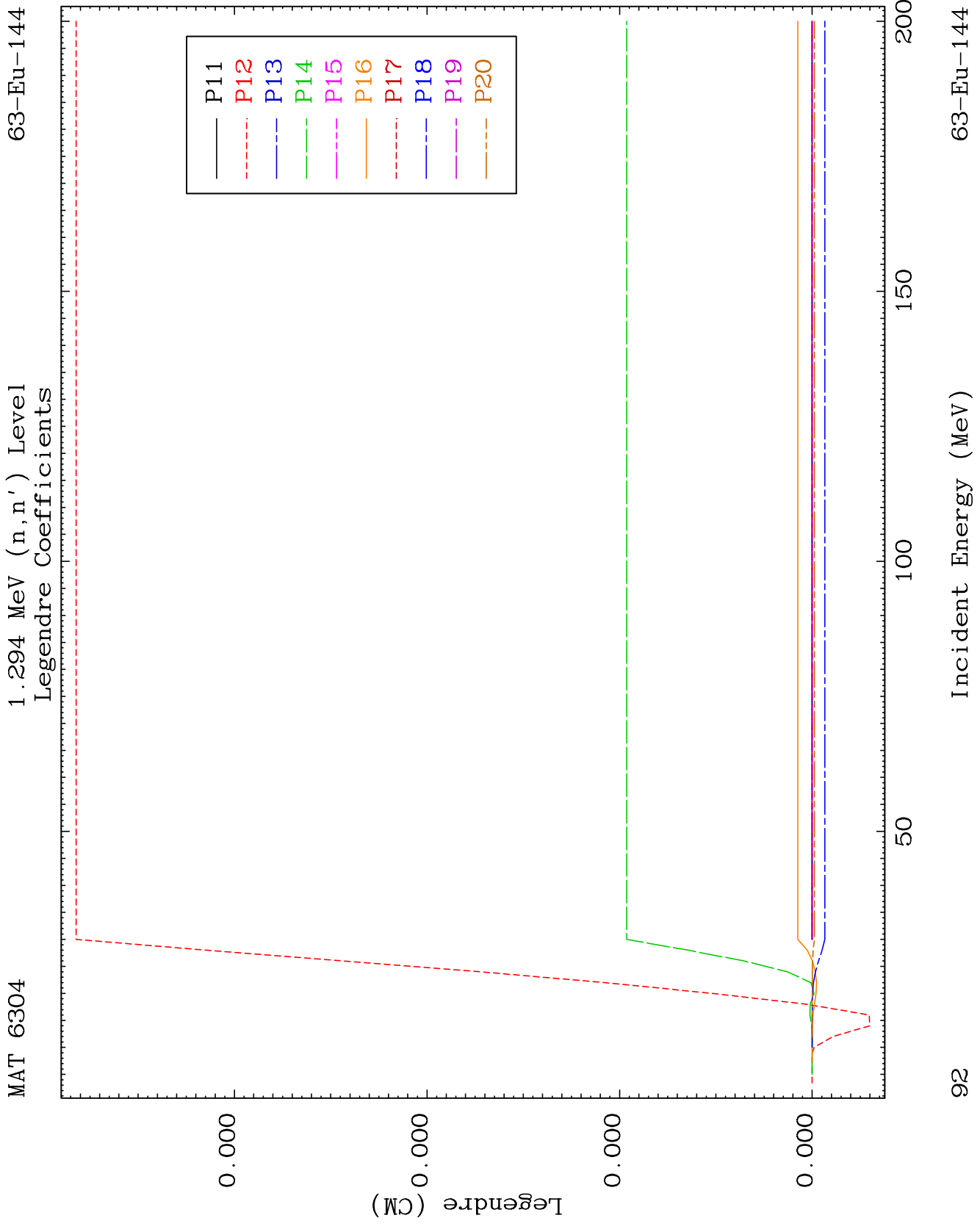
88

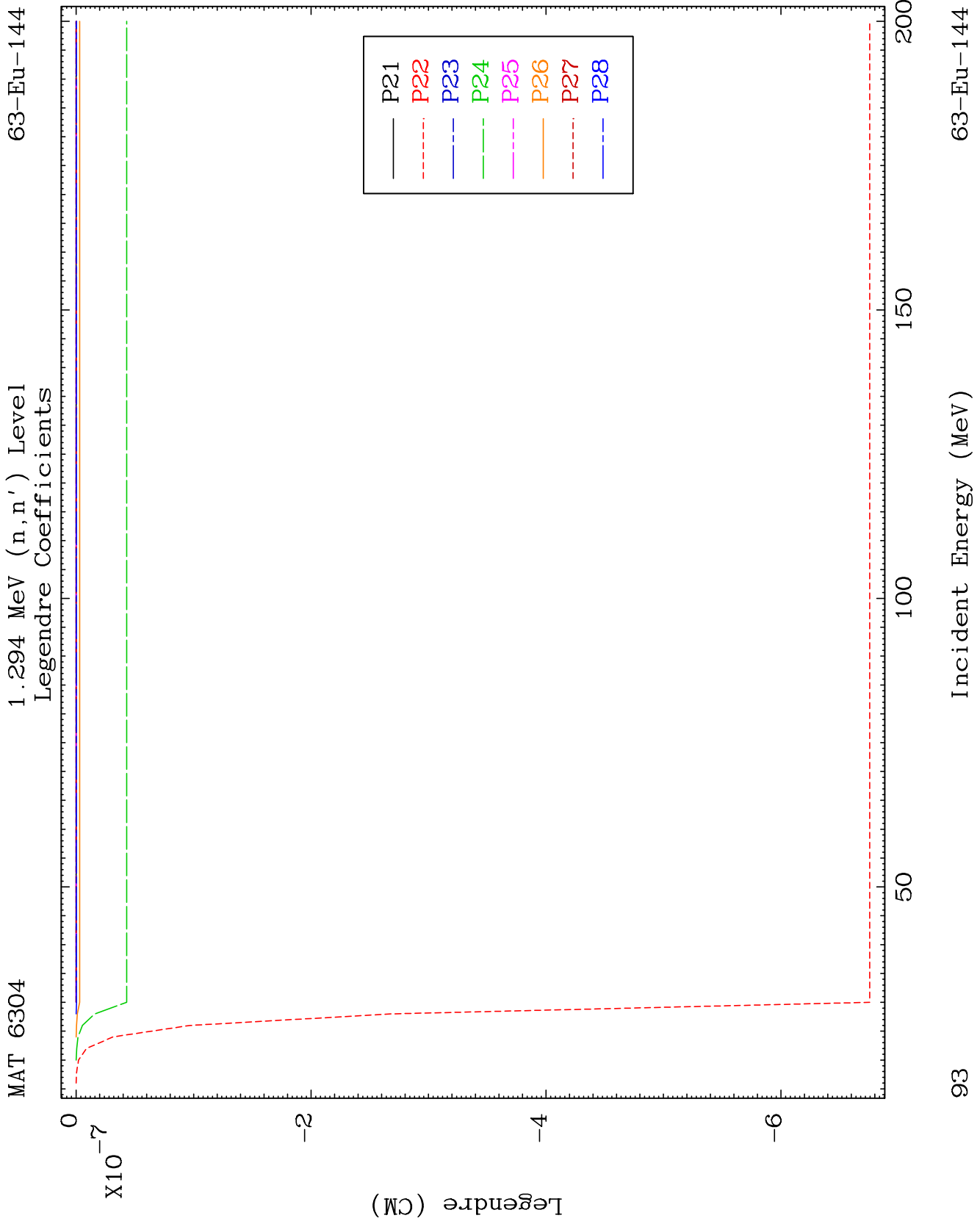
Incident Energy (MeV)

63-Eu-144





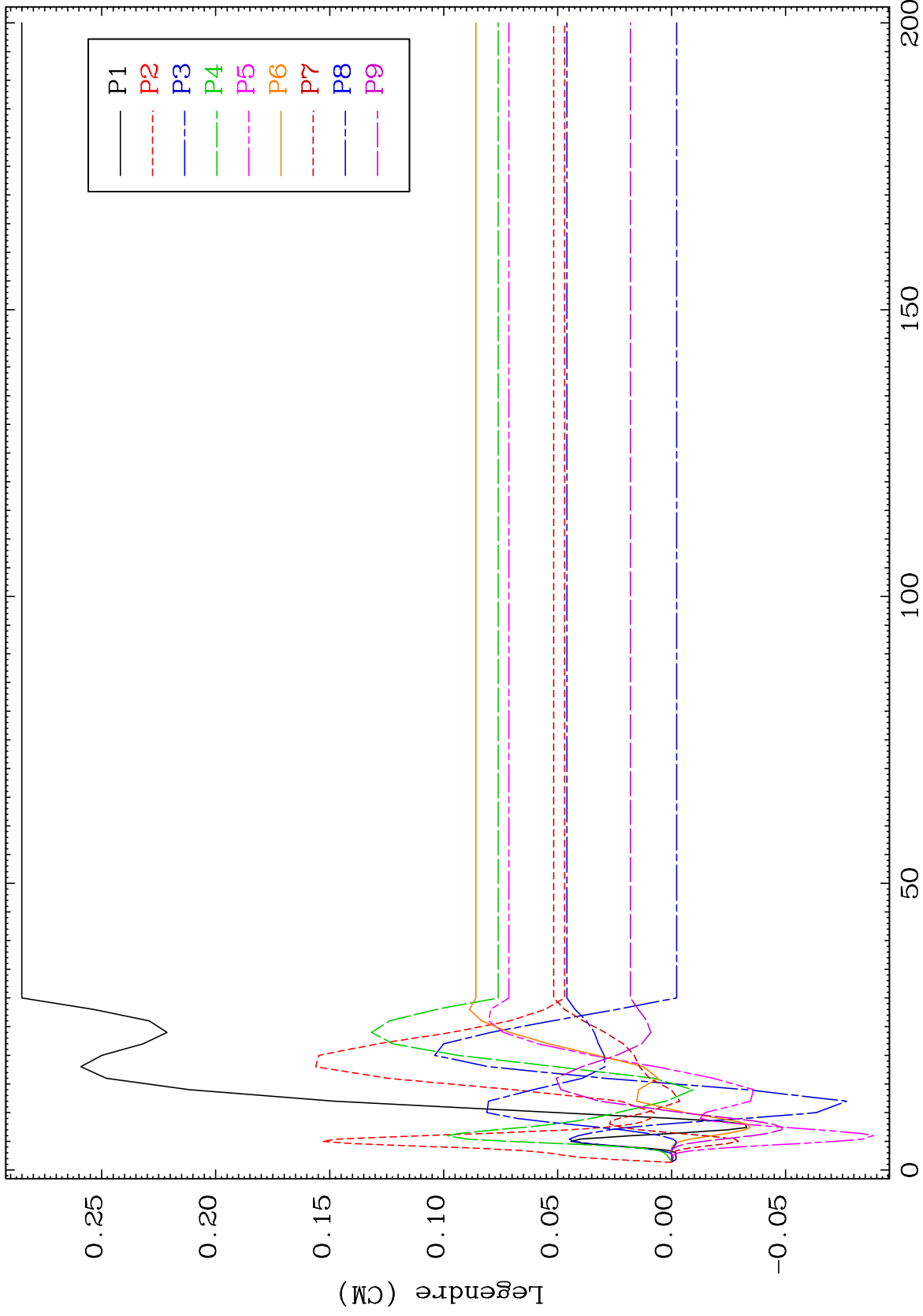




MAT 6304

1.304 MeV (n,n') Level
Legendre Coefficients

63-Eu-144



94

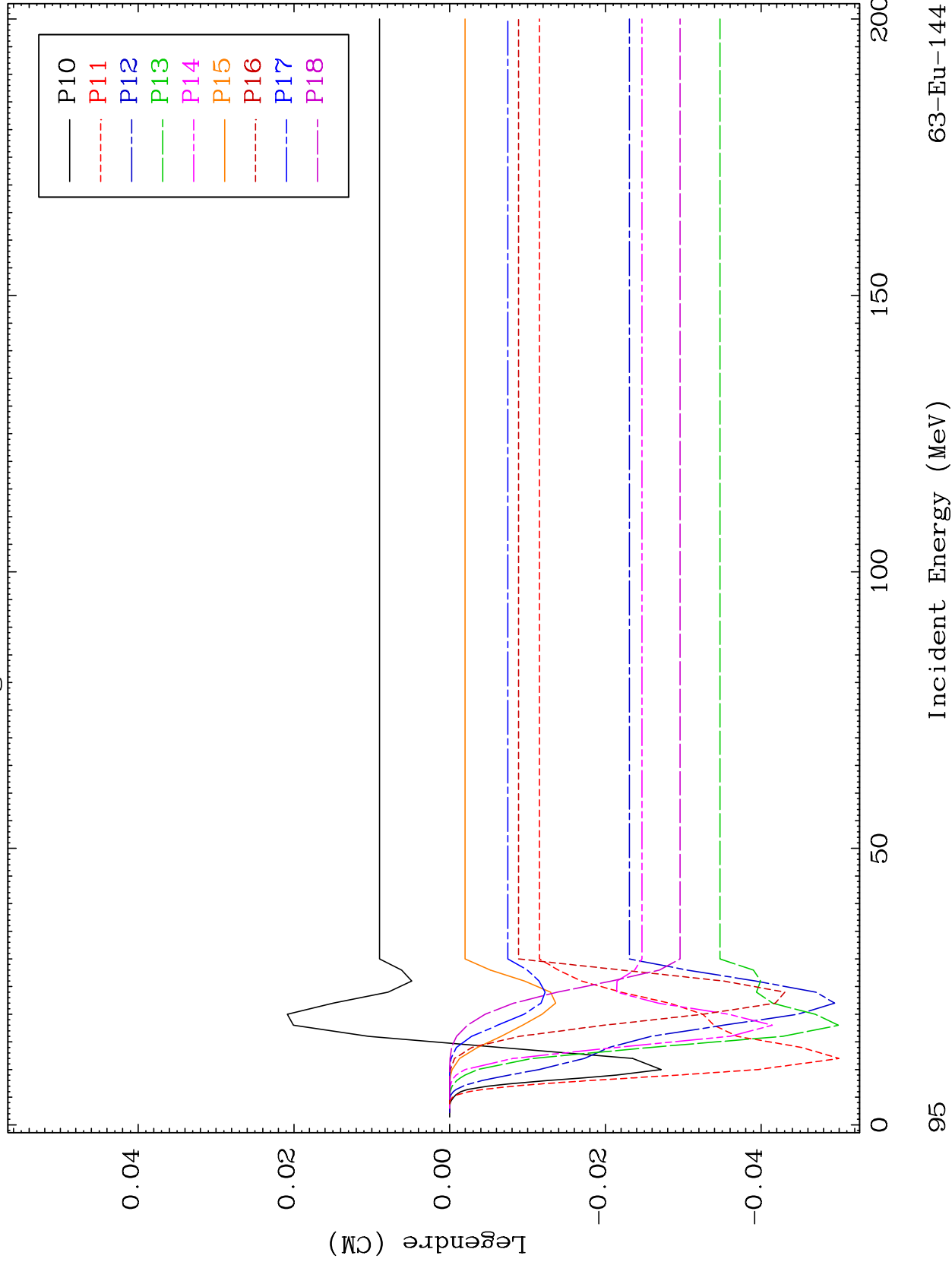
Incident Energy (MeV)

63-Eu-144

MAT 6304

1.304 MeV (n,n') Level
Legendre Coefficients

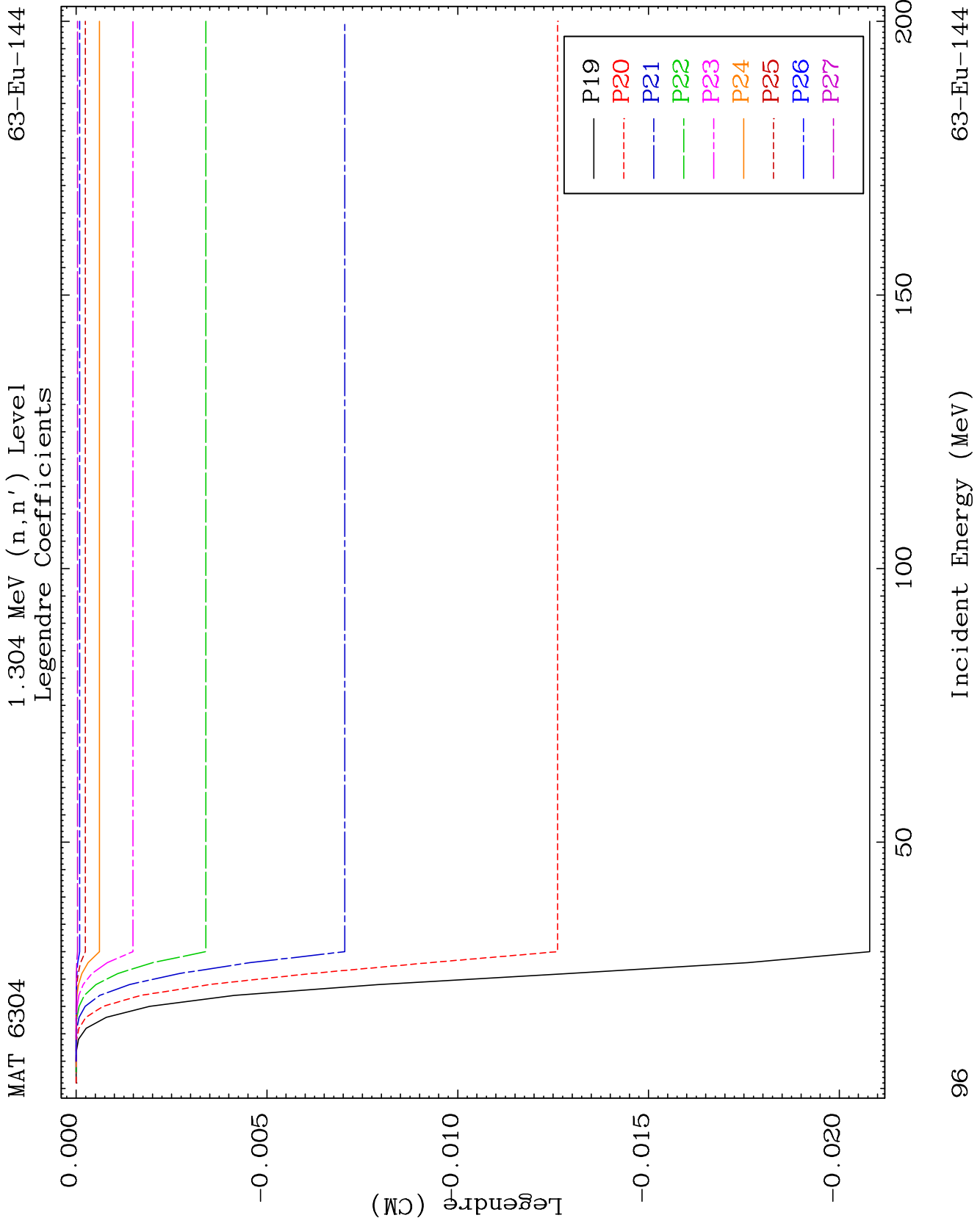
63-Eu-144

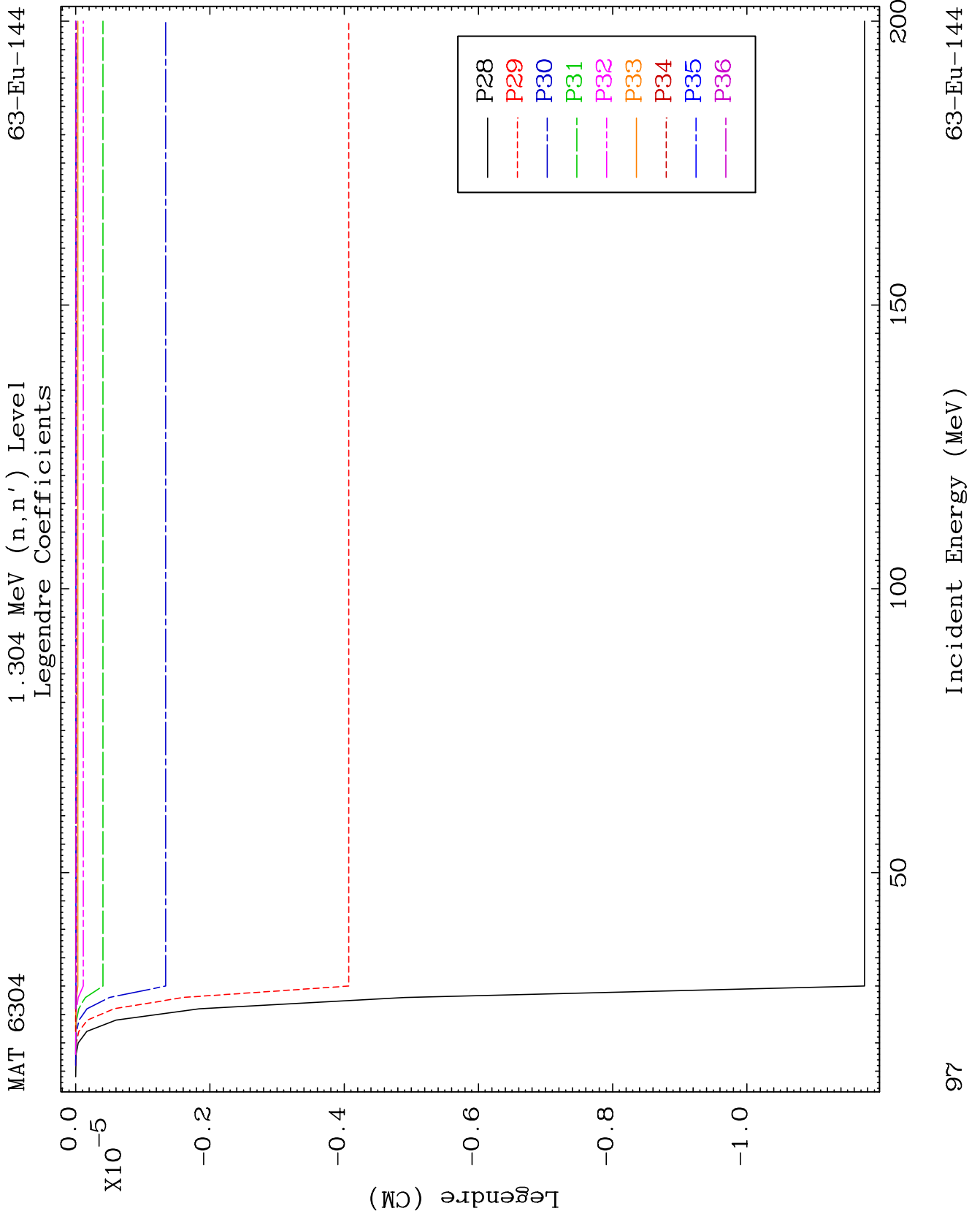


63-Eu-144

Incident Energy (MeV)

95

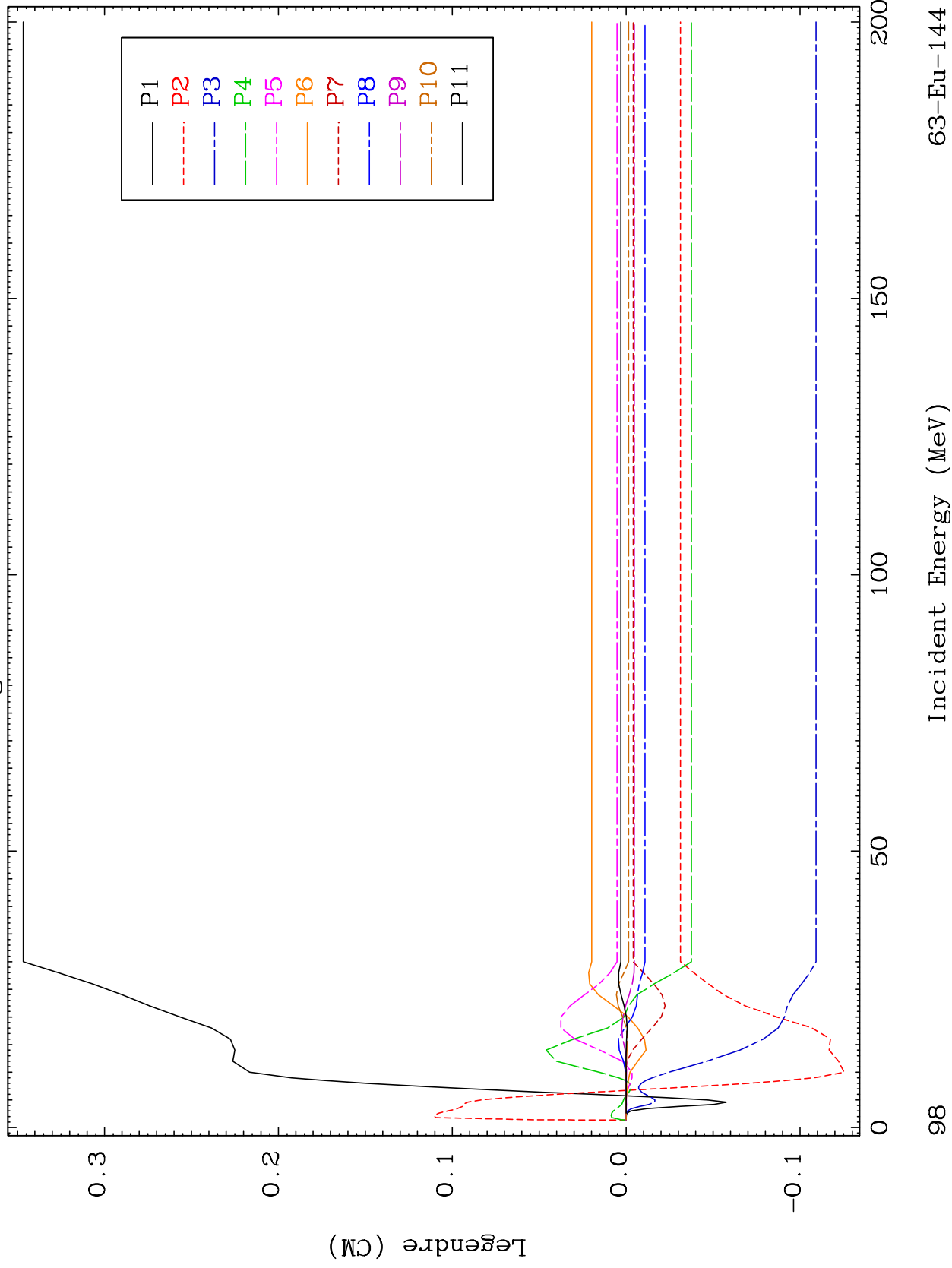




MAT 6304

1.338 MeV (n,n') Level
Legendre Coefficients

63-Eu-144



63-Eu-144

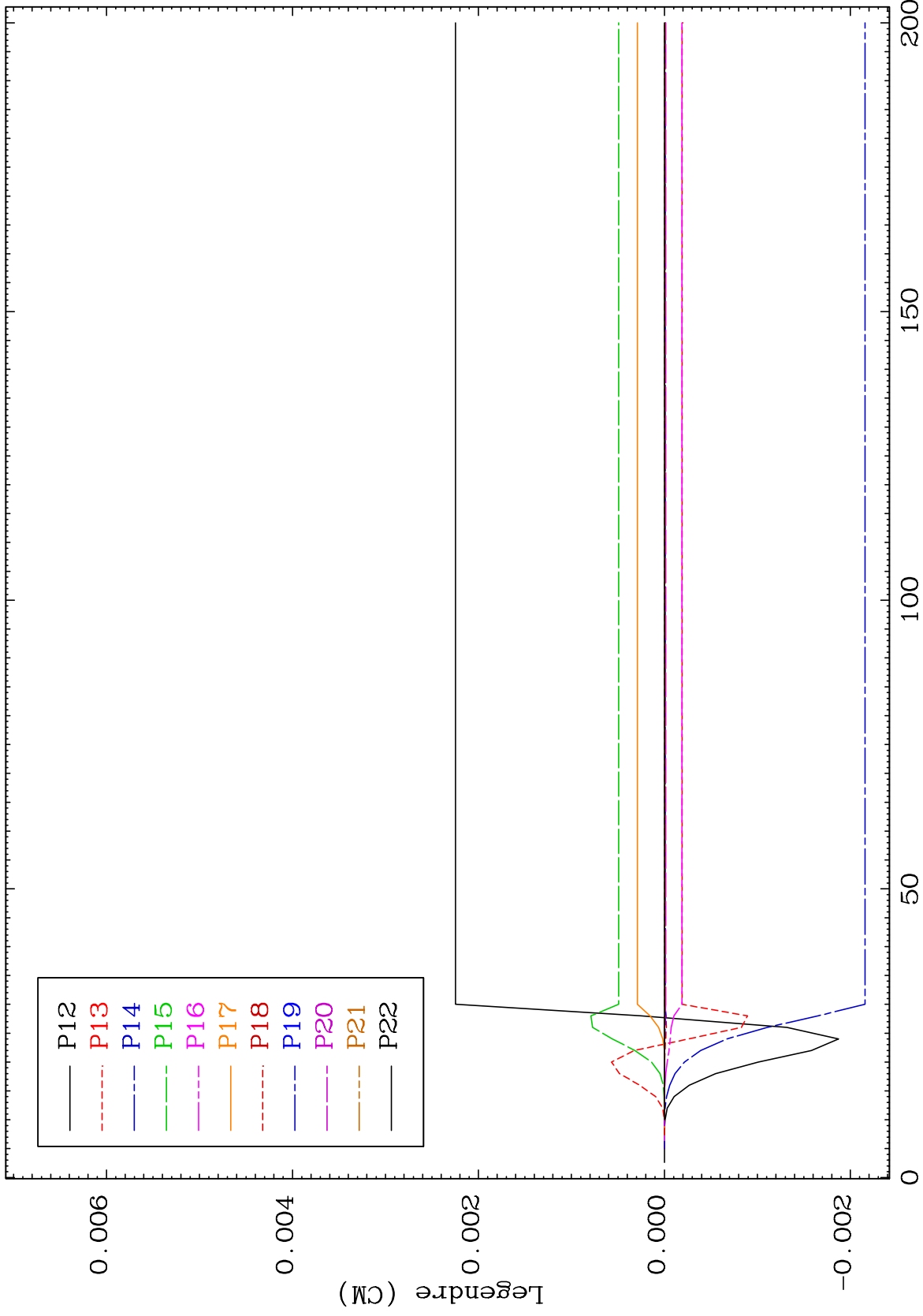
Incident Energy (MeV)

98

MAT 6304

1.338 MeV (n,n') Level
Legendre Coefficients

63-Eu-144



99

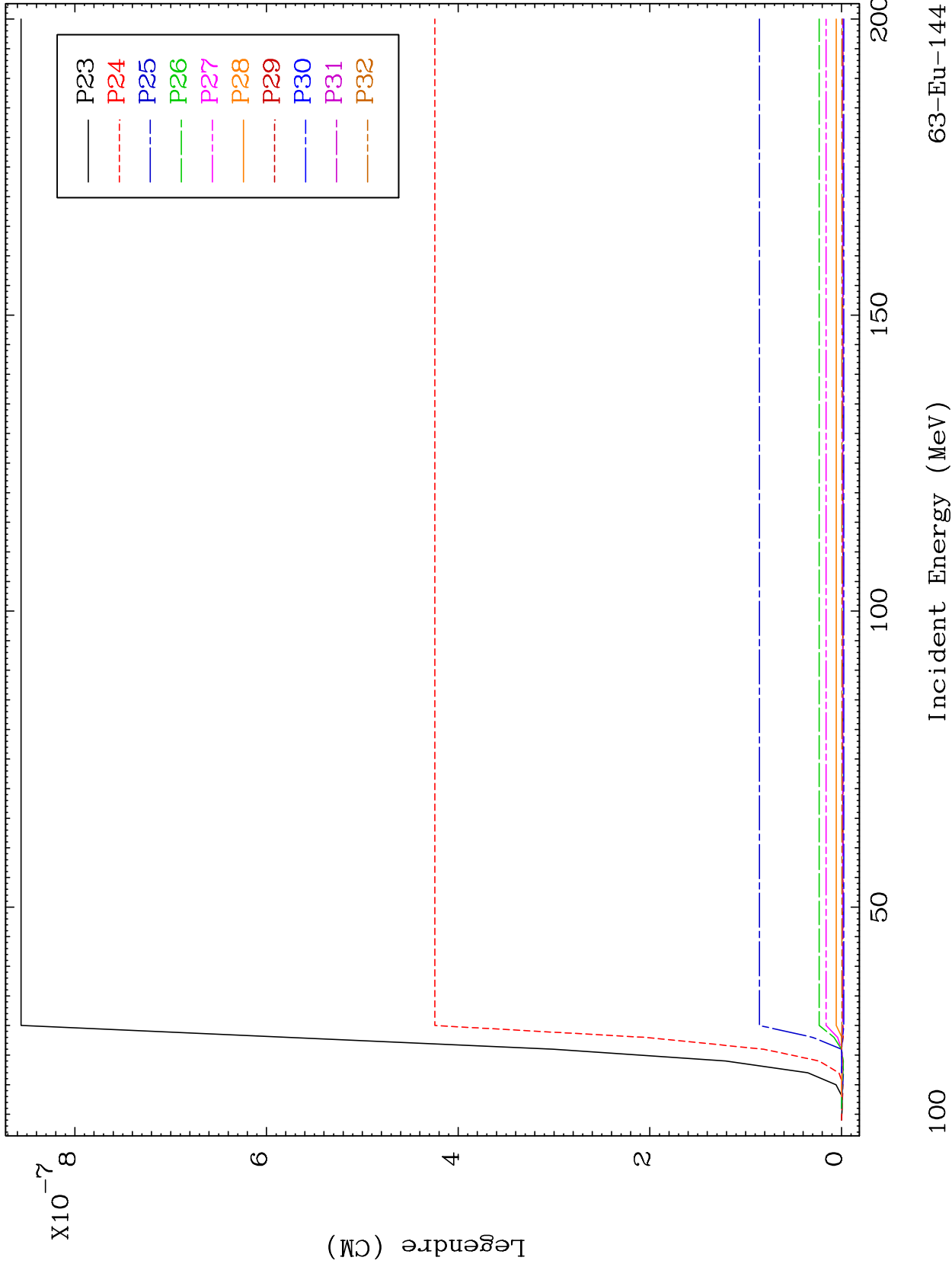
Incident Energy (MeV)

63-Eu-144

MAT 6304

1.338 MeV (n,n') Level
Legendre Coefficients

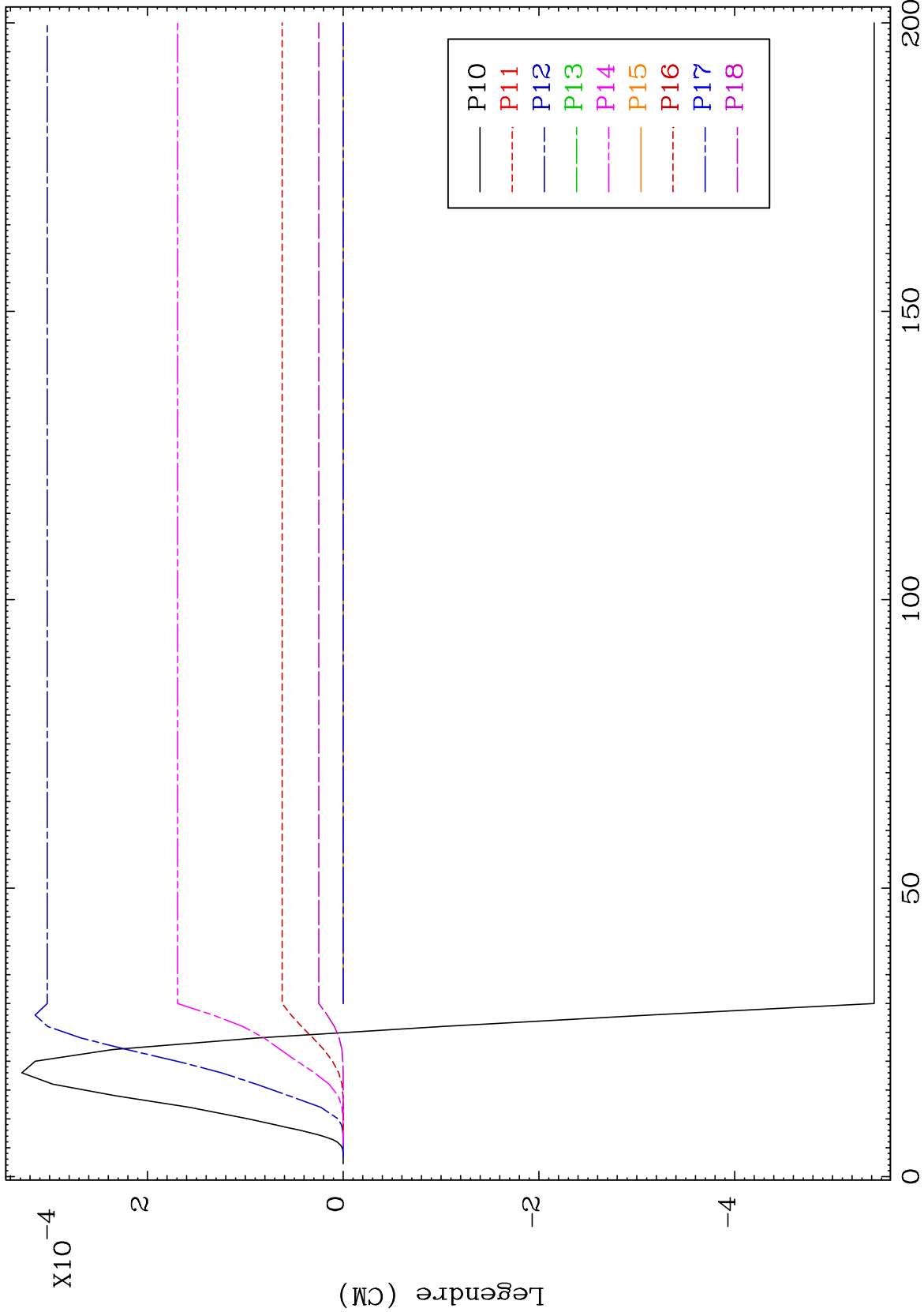
63-Eu-144



MAT 6304

1.402 MeV (n,n') Level
Legendre Coefficients

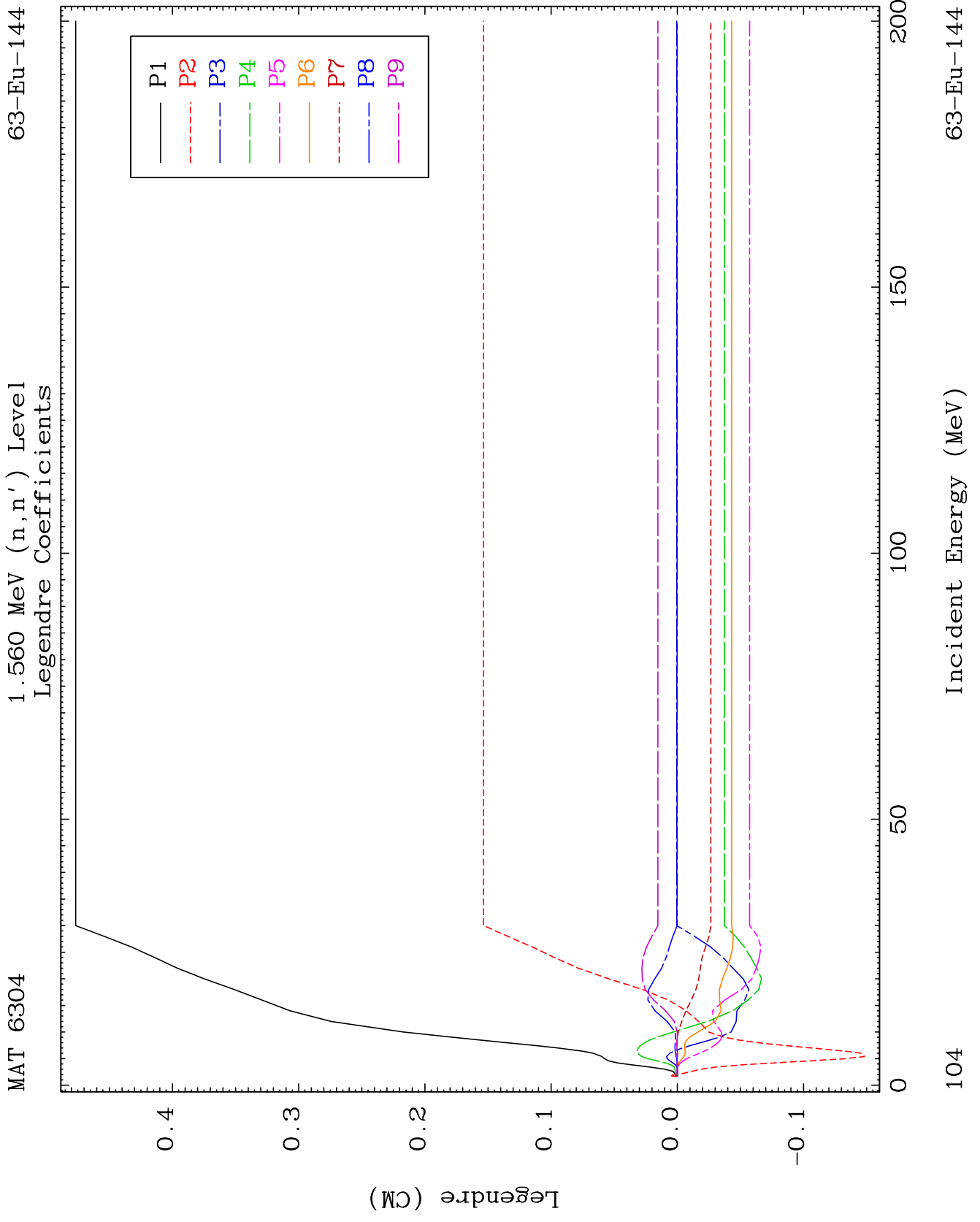
63-Eu-144



102

Incident Energy (MeV)

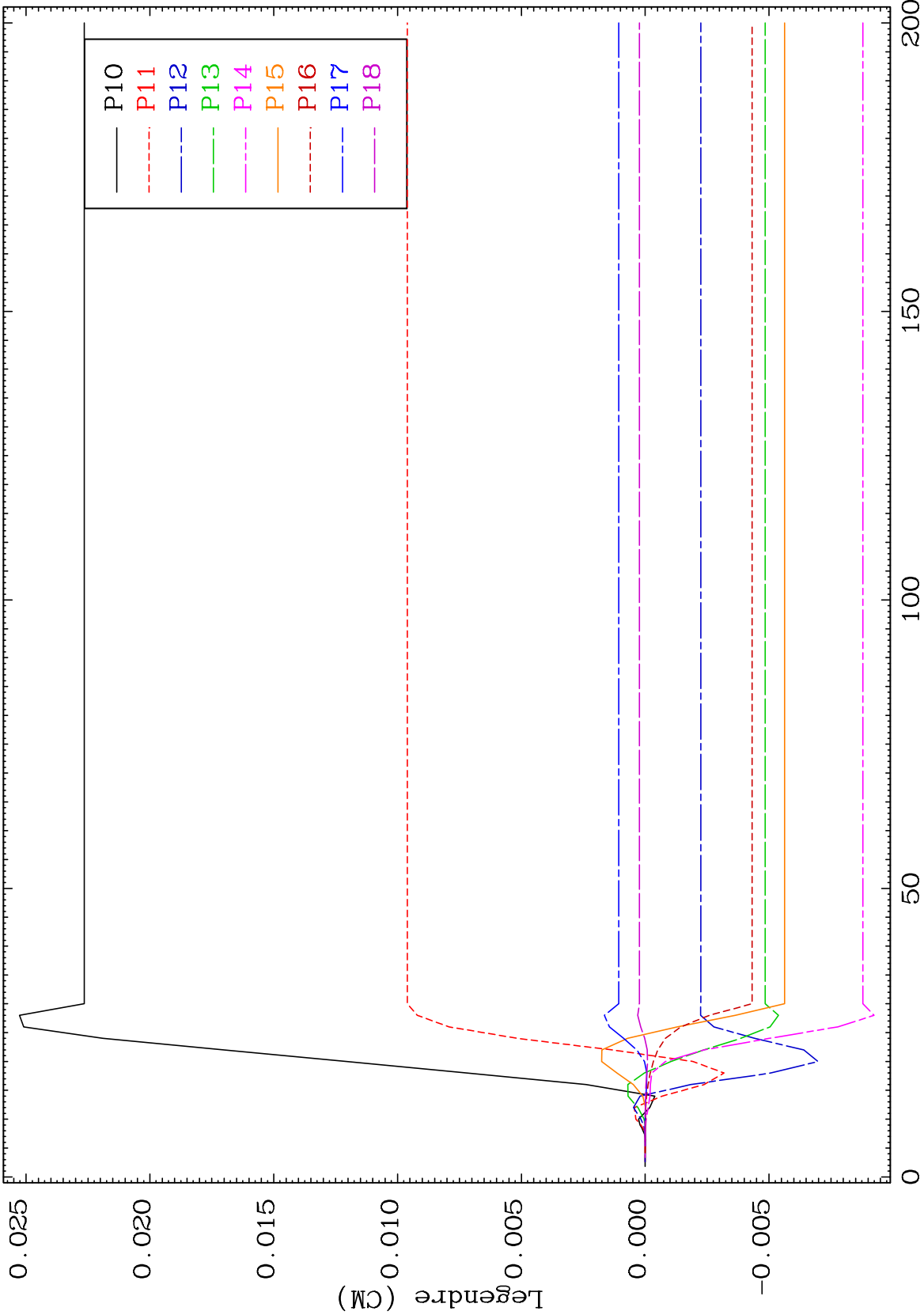
63-Eu-144



MAT 6304

1.560 MeV (n, n') Level
Legendre Coefficients

63-Eu-144



105

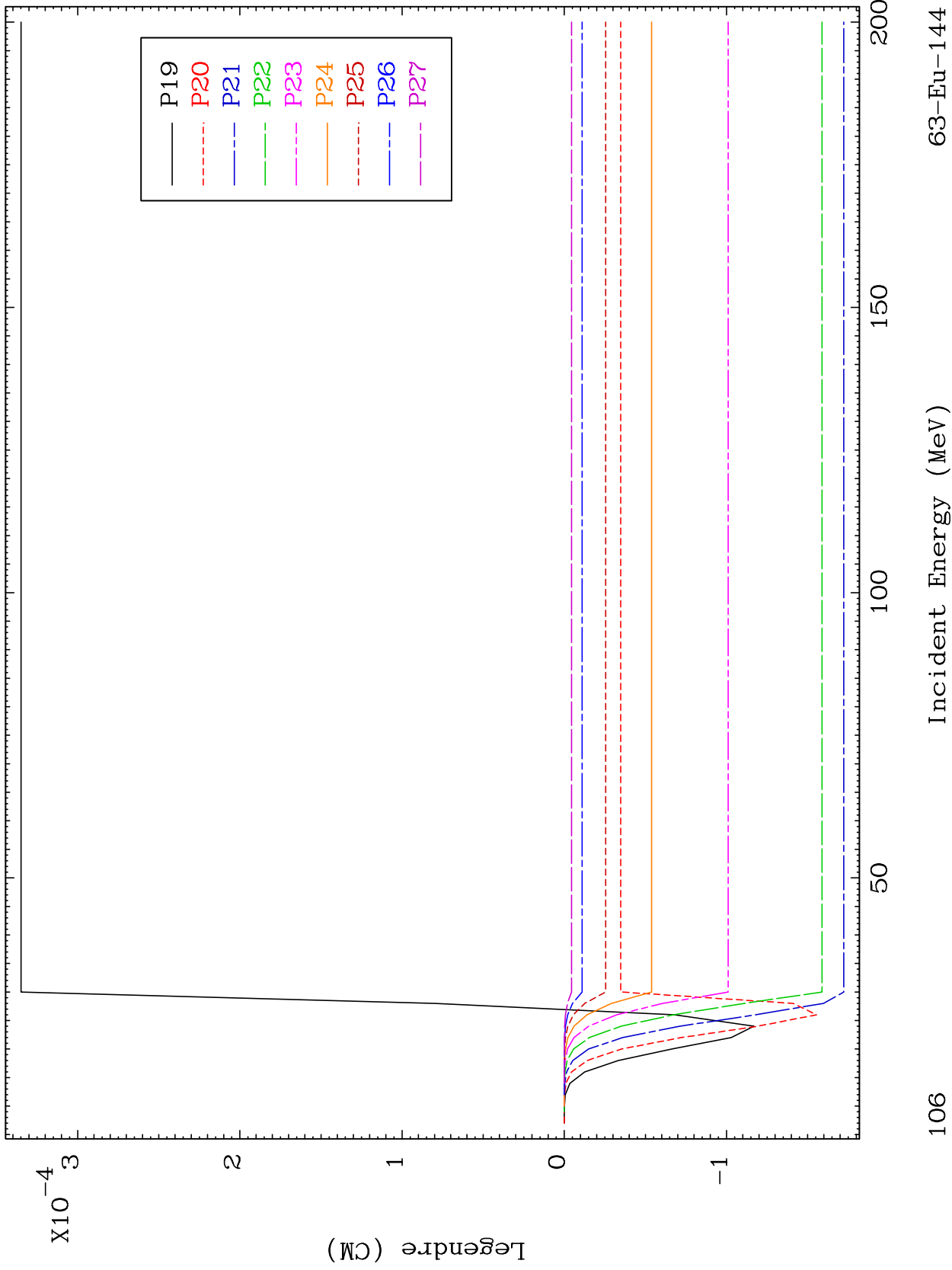
Incident Energy (MeV)

63-Eu-144

MAT 6304

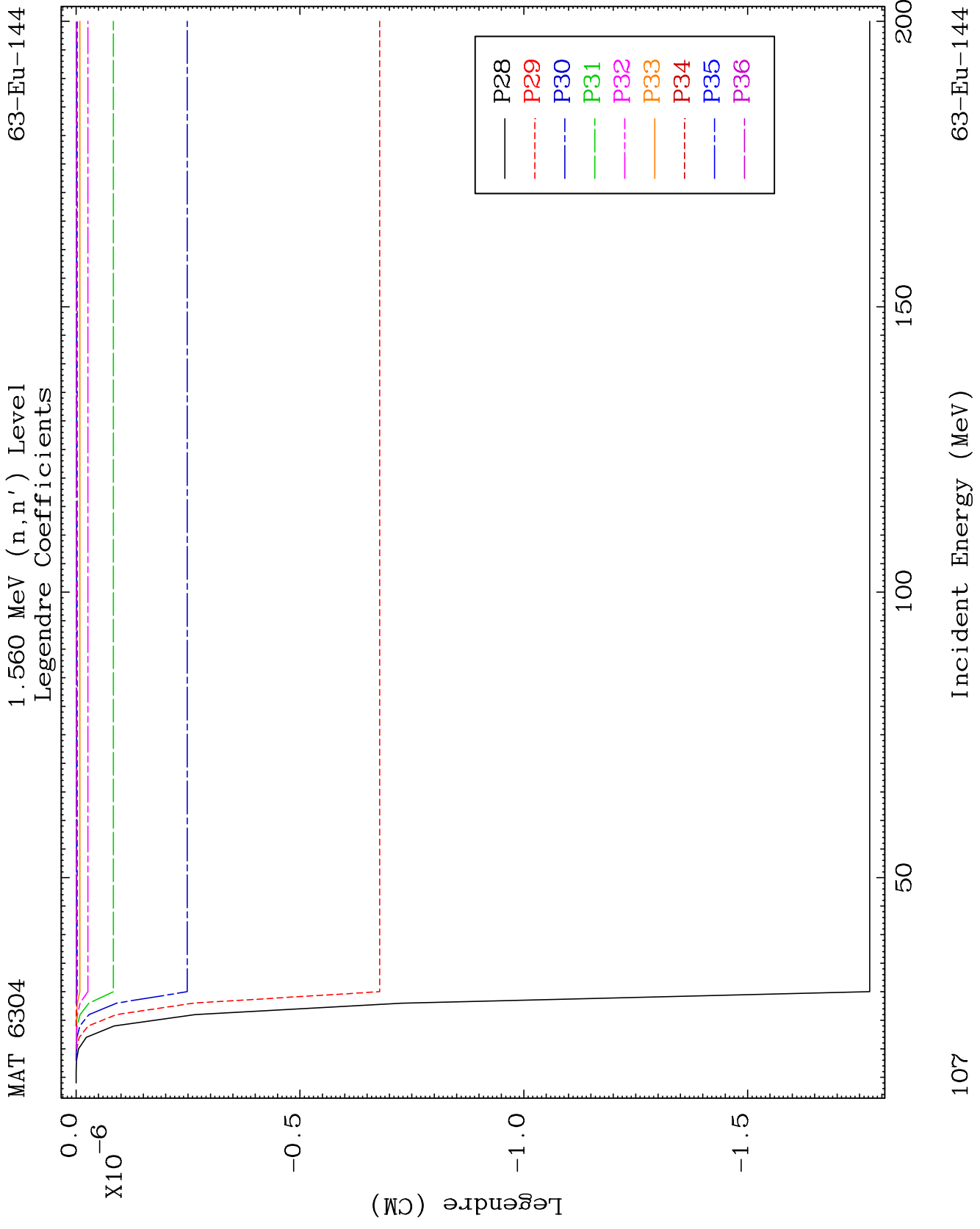
1.560 MeV (n,n') Level
Legendre Coefficients

63-Eu-144



106

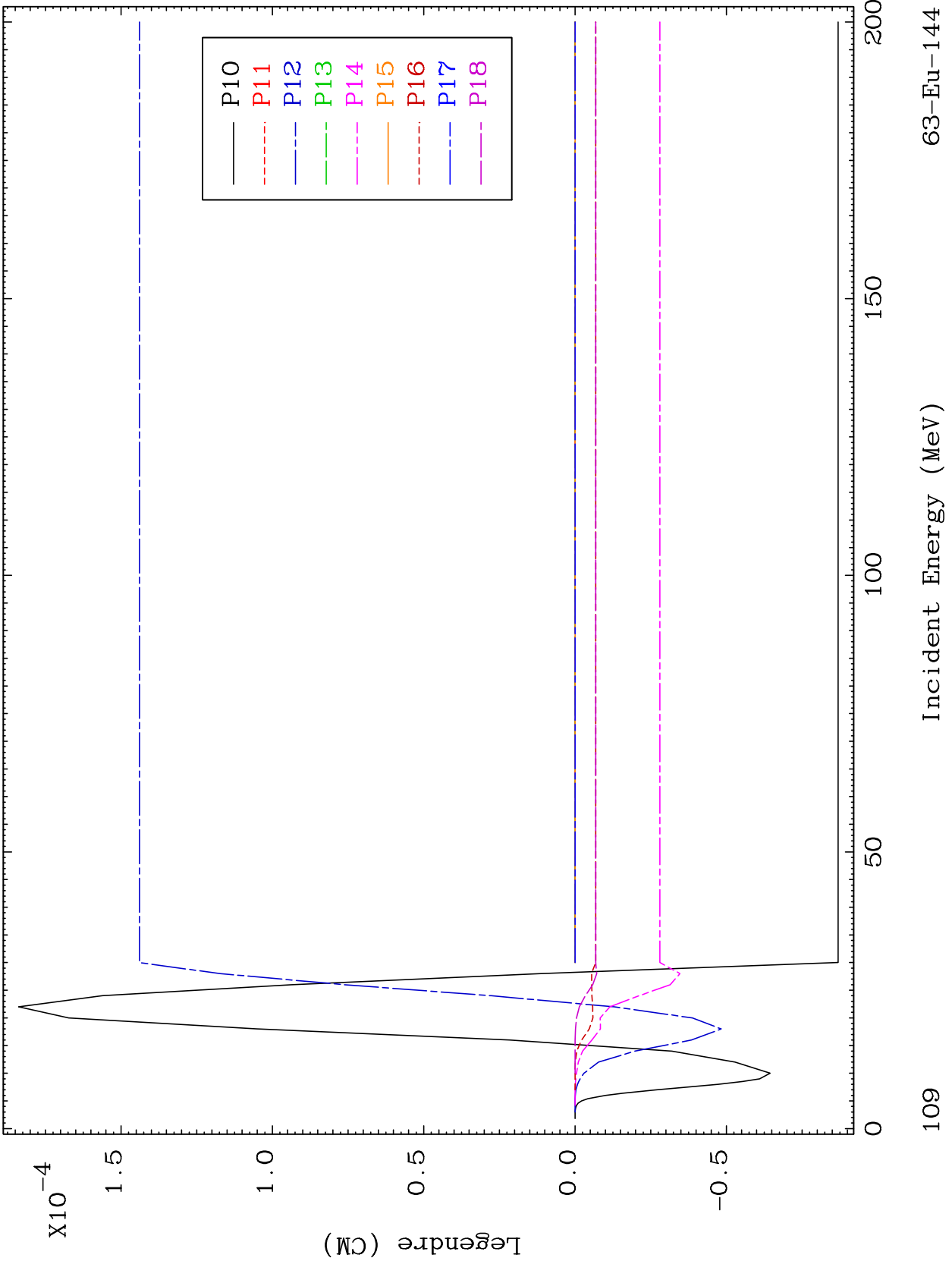
63-Eu-144



MAT 6304

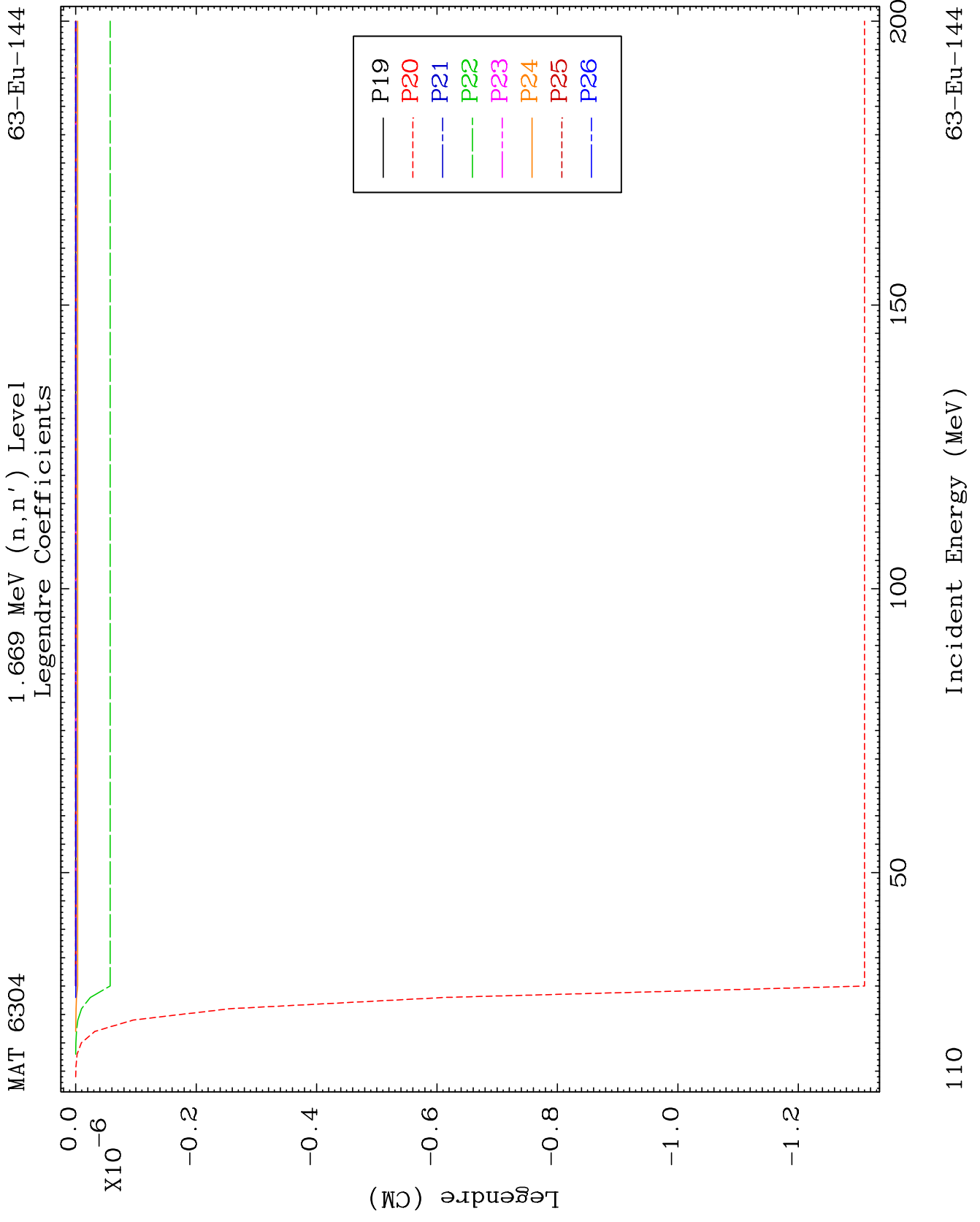
1.669 MeV (n,n') Level
Legendre Coefficients

63-Eu-144



109

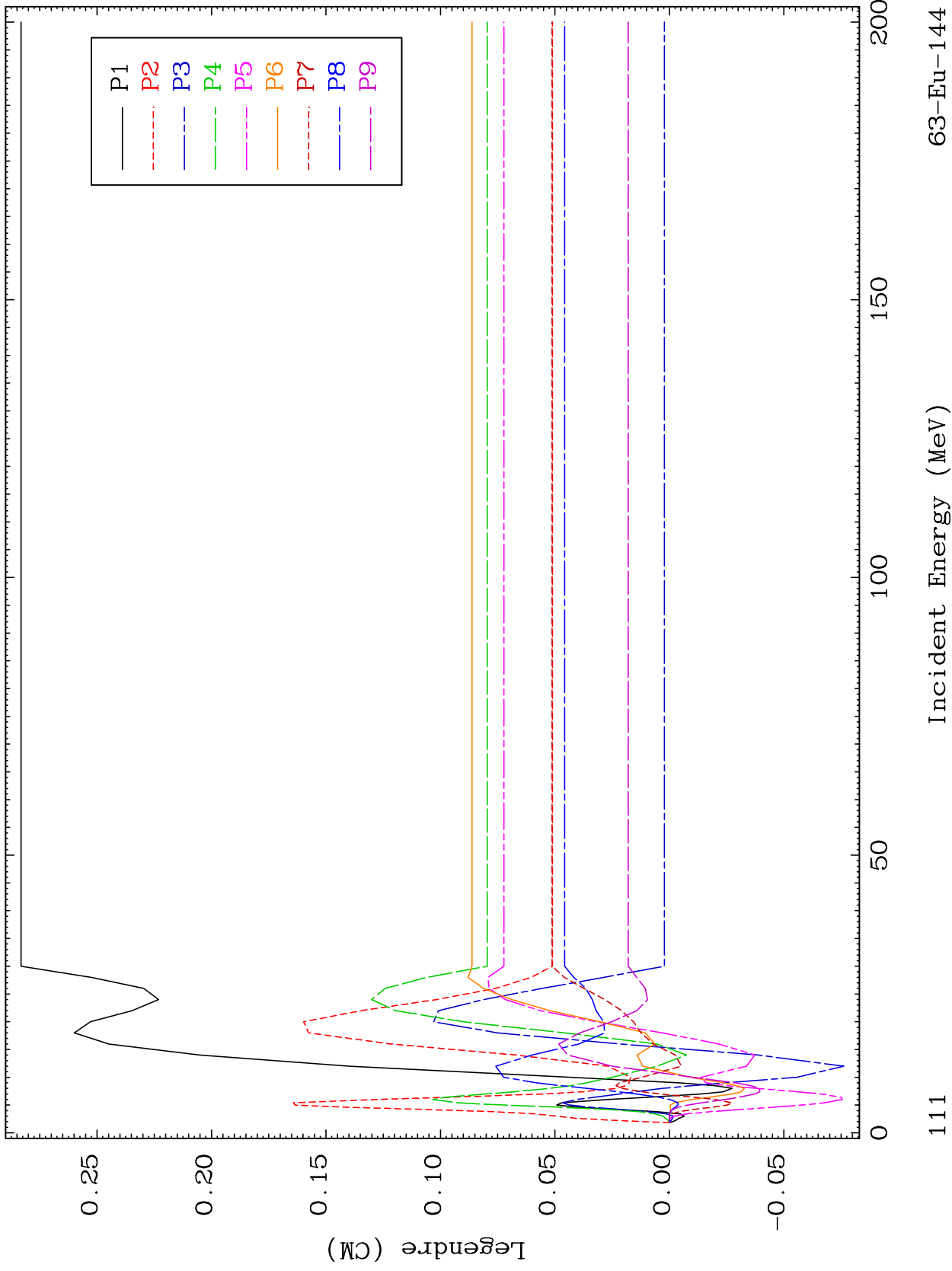
63-Eu-144



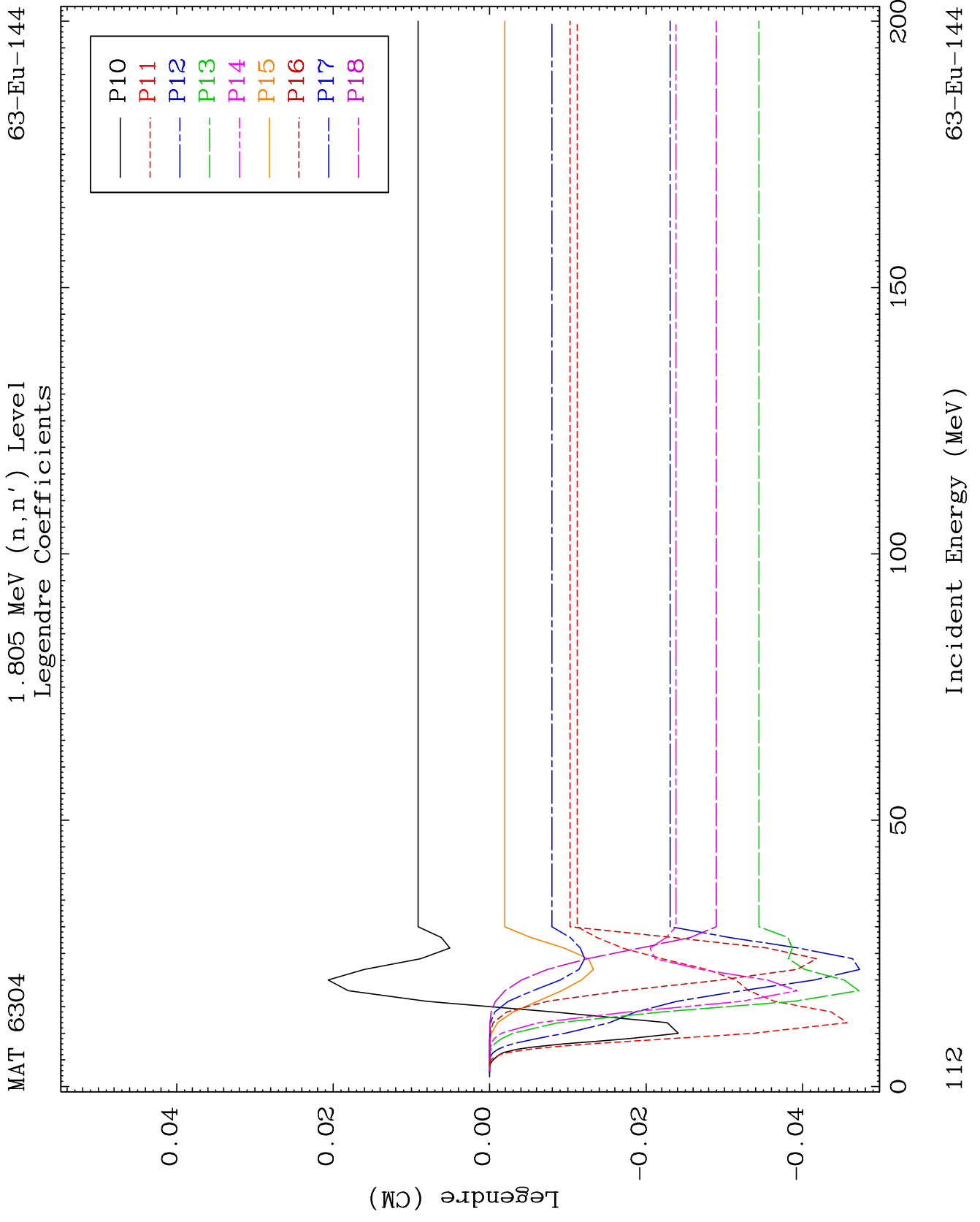
MAT 6304

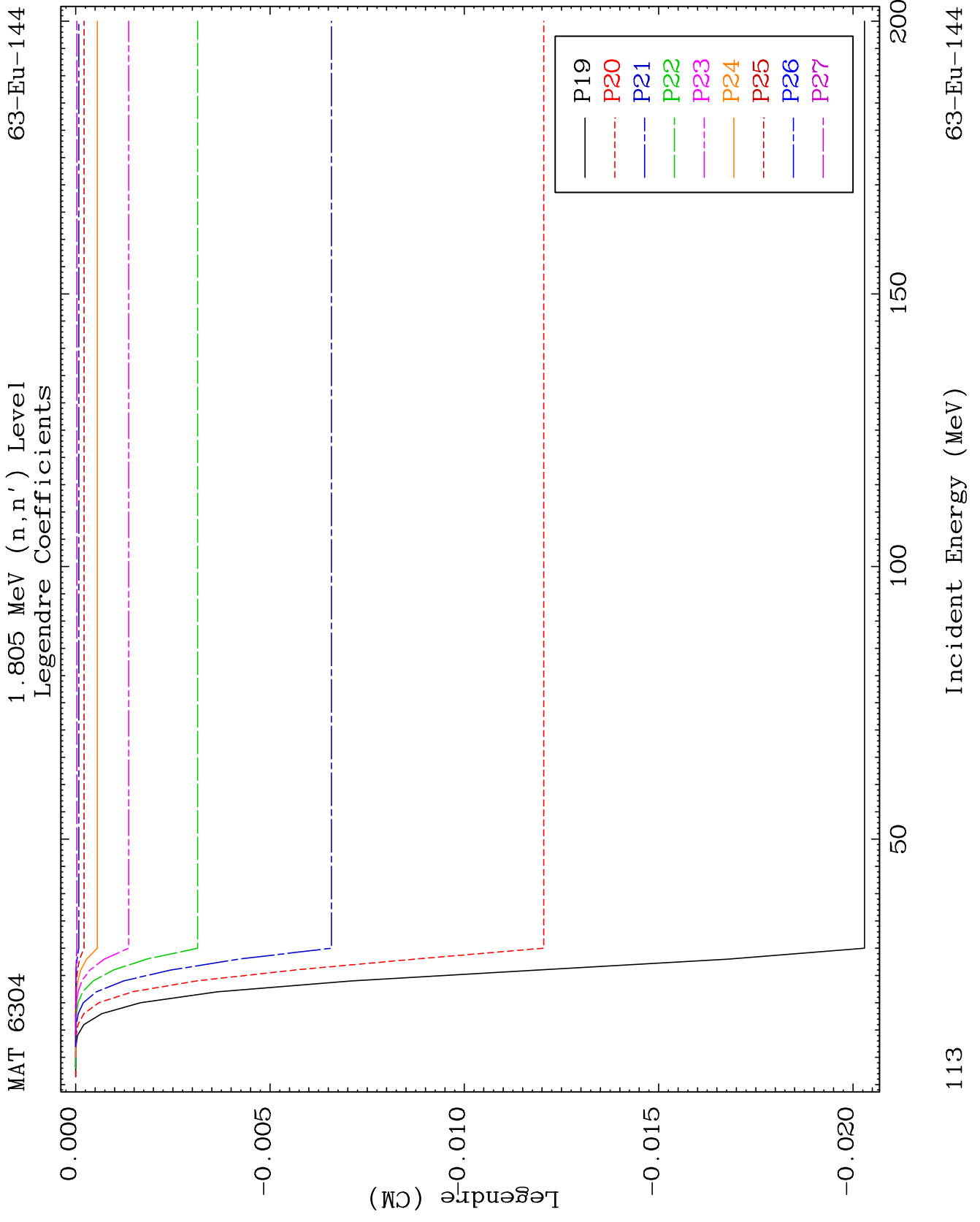
1.805 MeV (n,n') Level
Legendre Coefficients

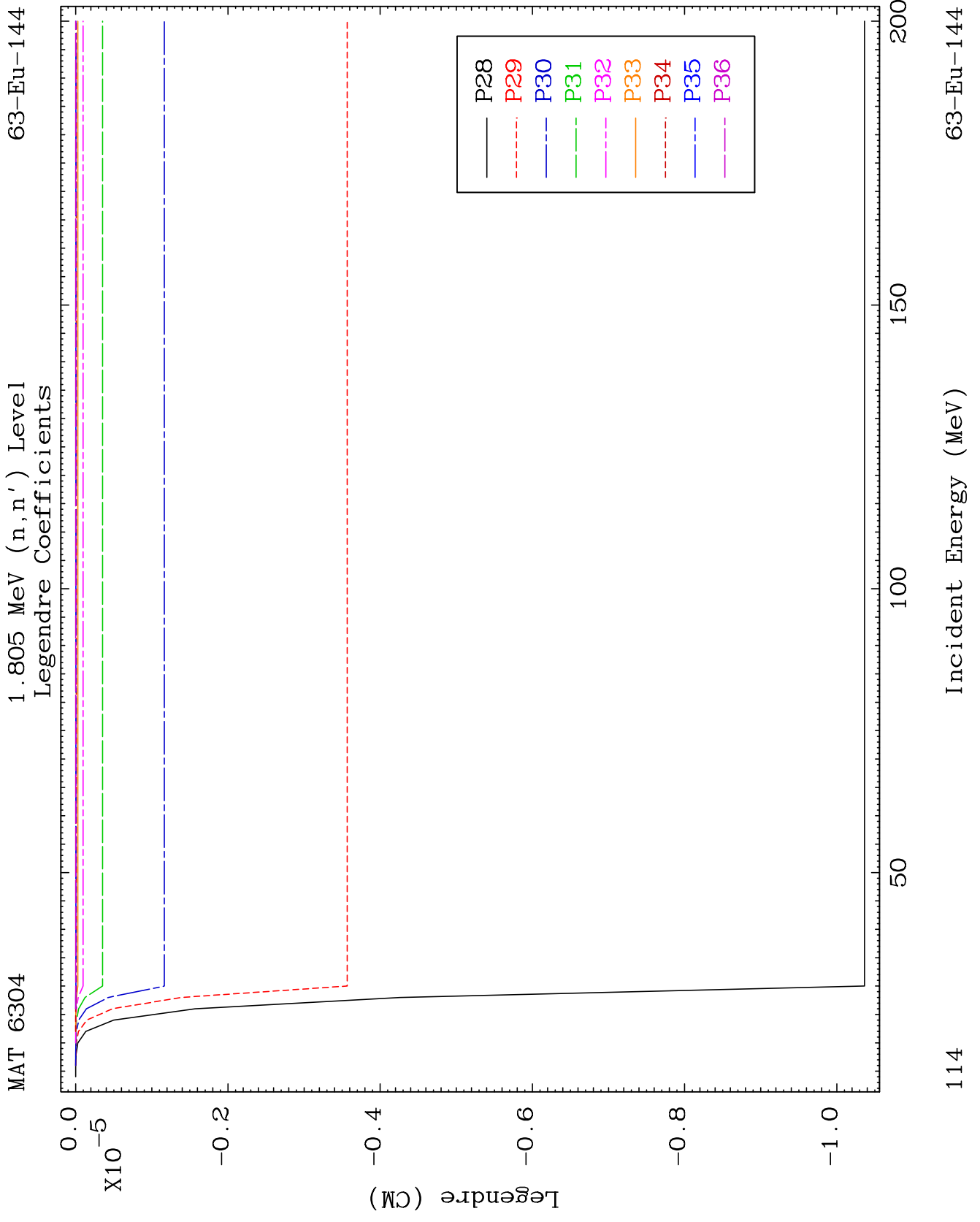
63-Eu-144

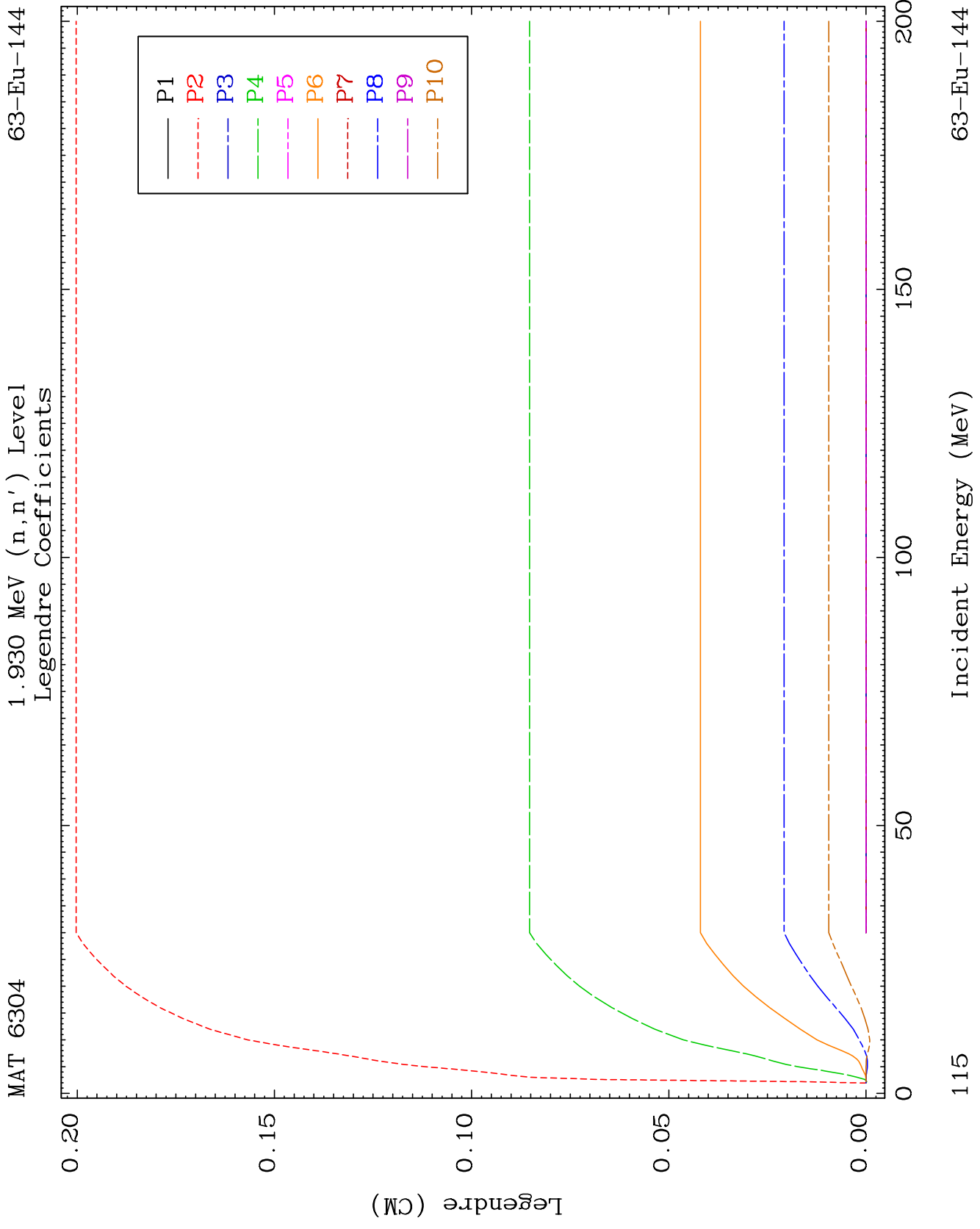


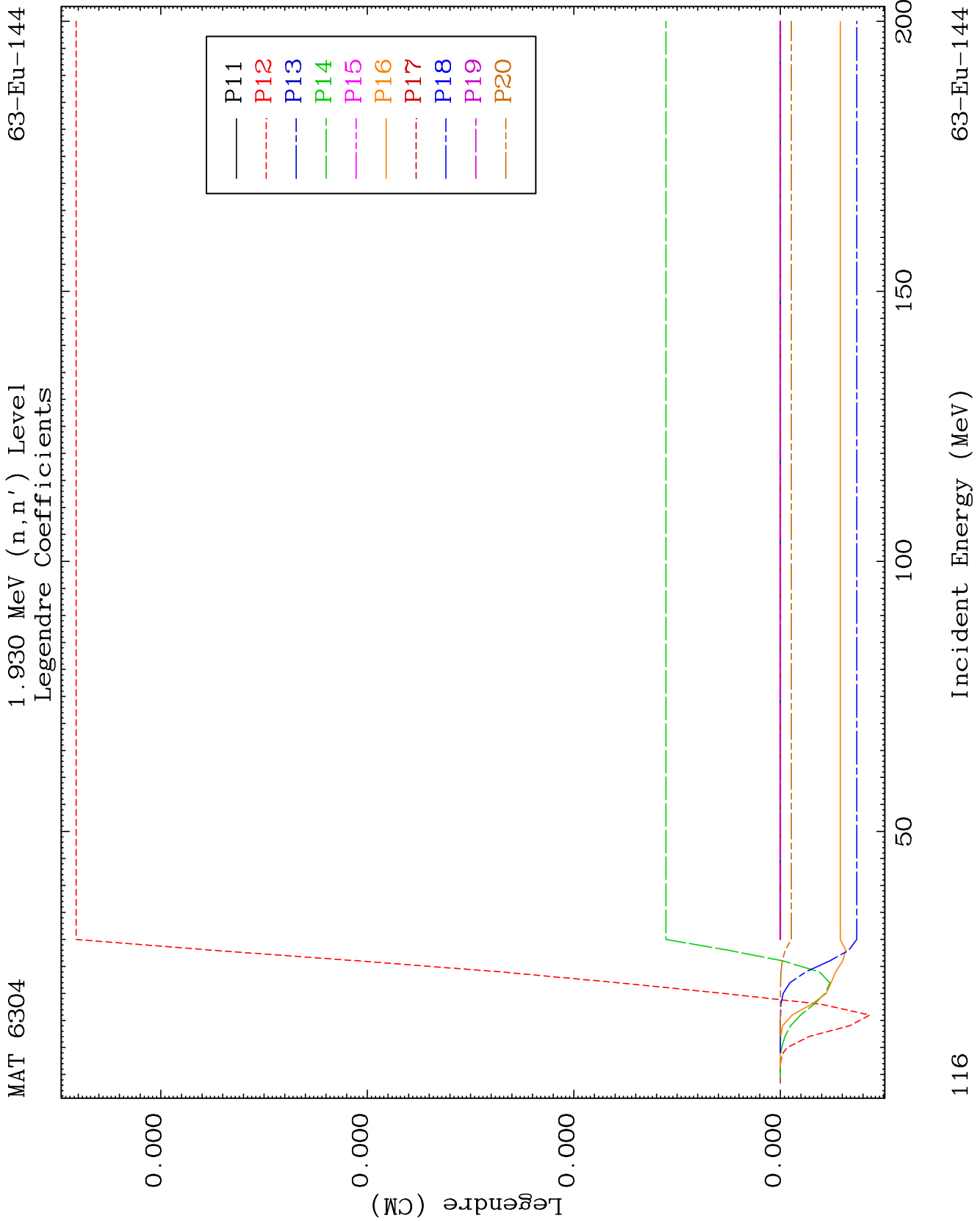
111

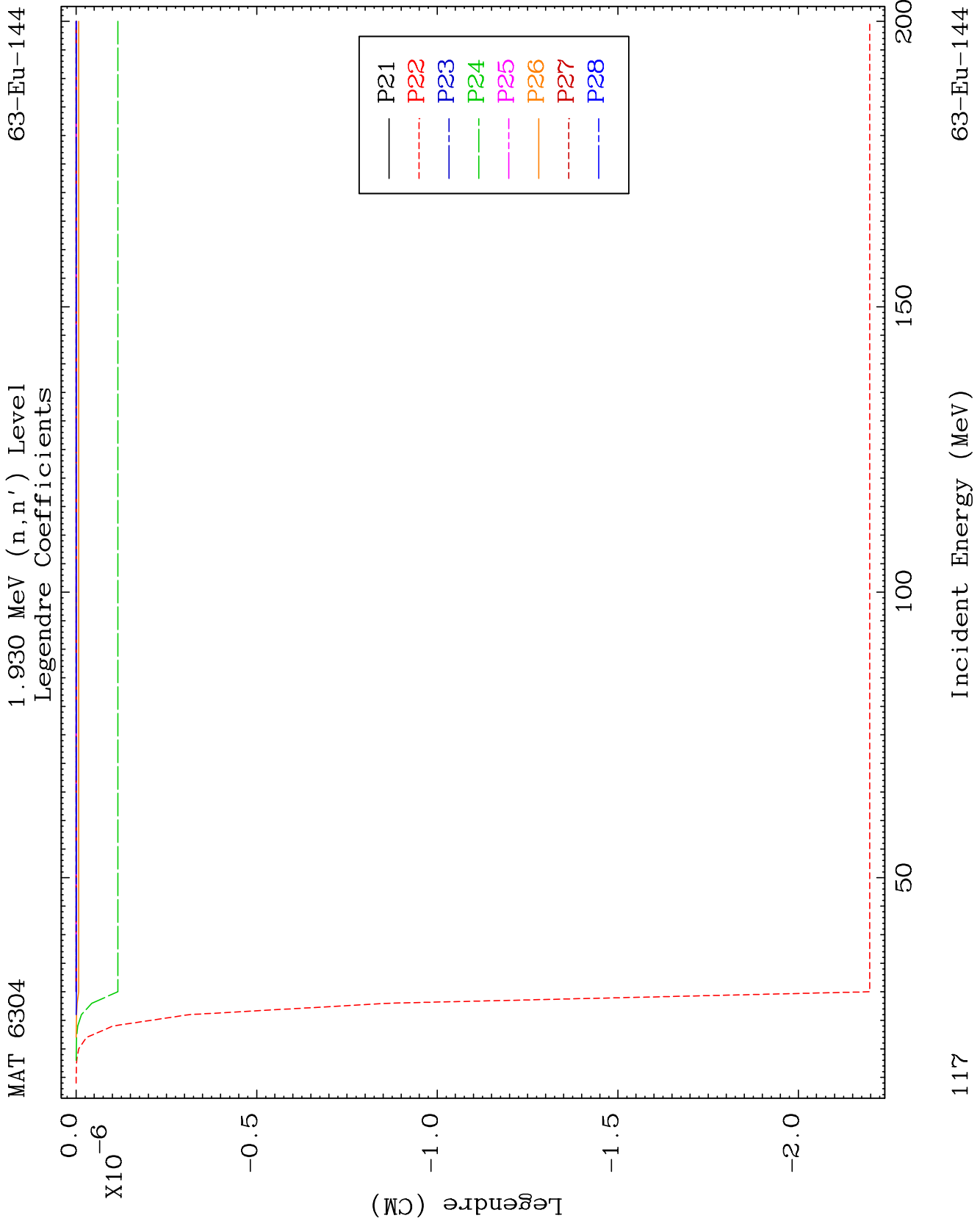


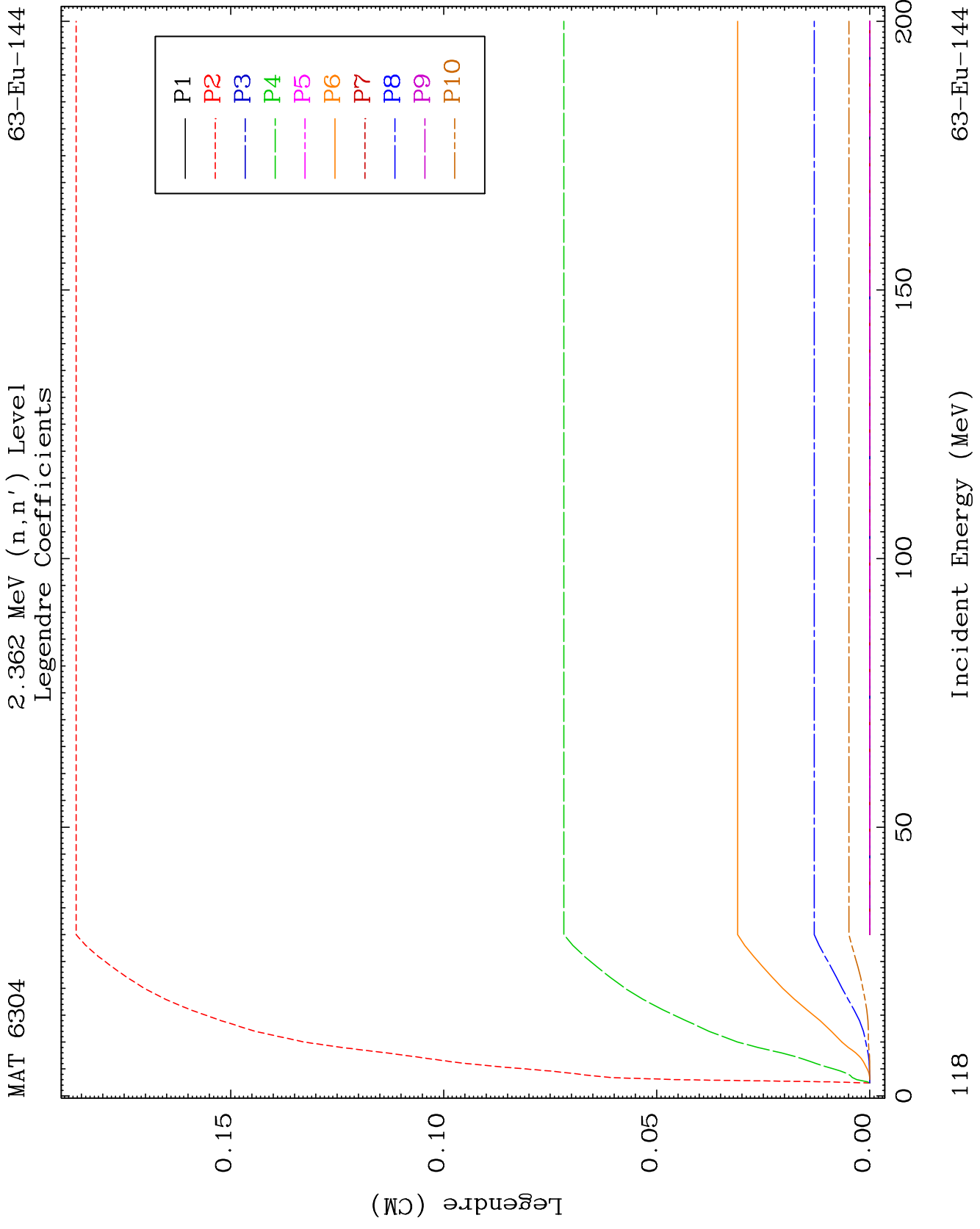


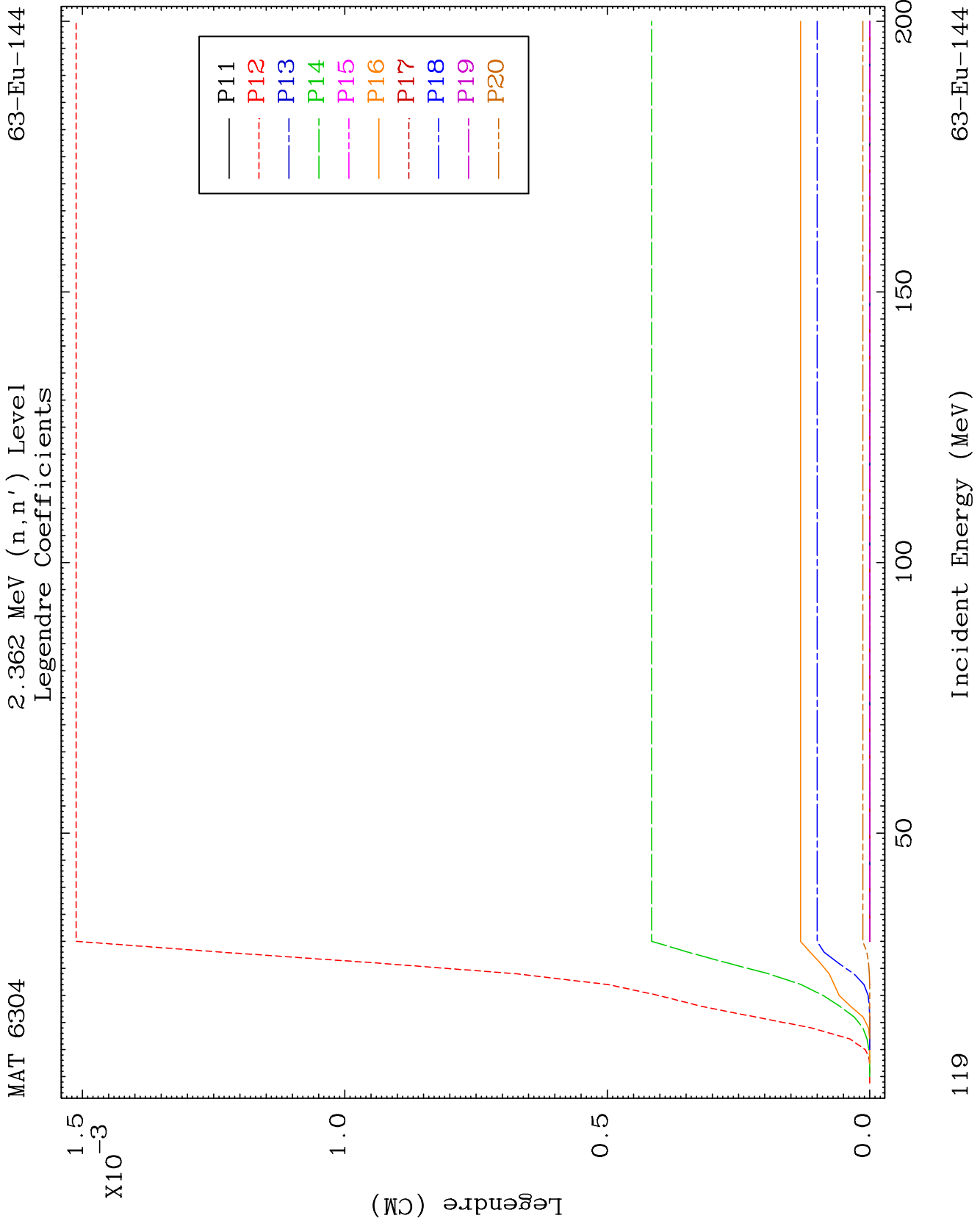


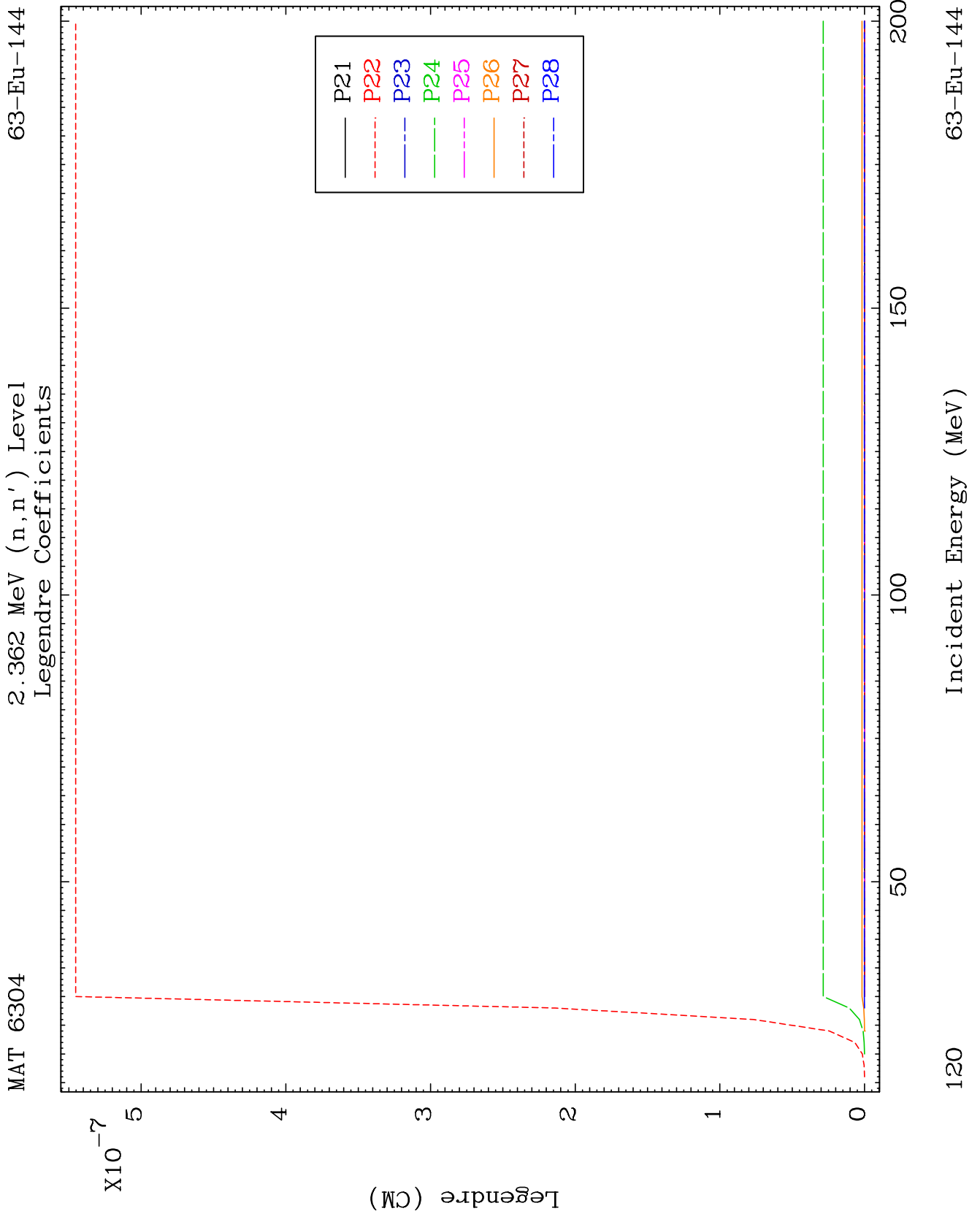








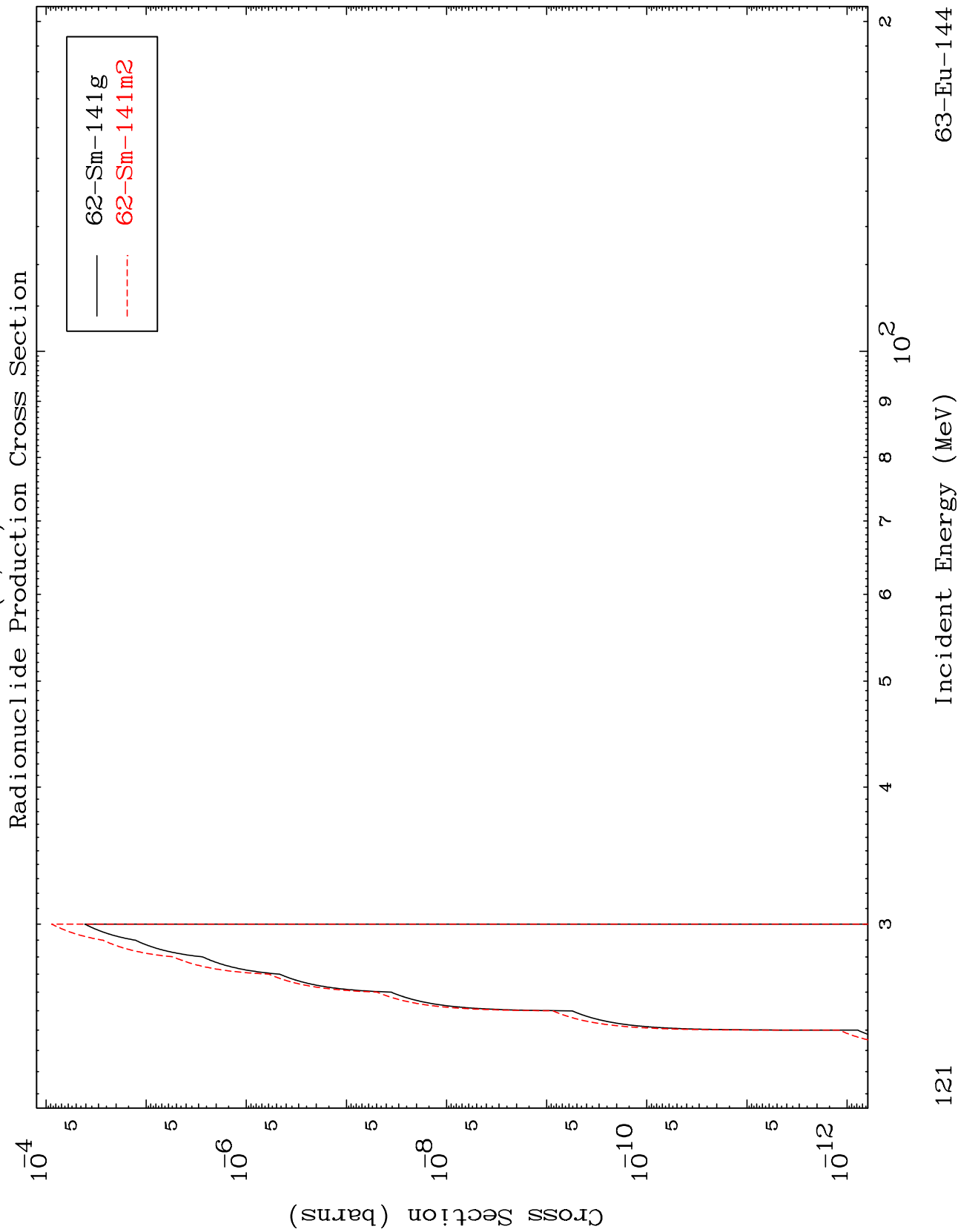




MAT 6304

(n,2n) d

63-Eu-144



63-Eu-144

Incident Energy (MeV)

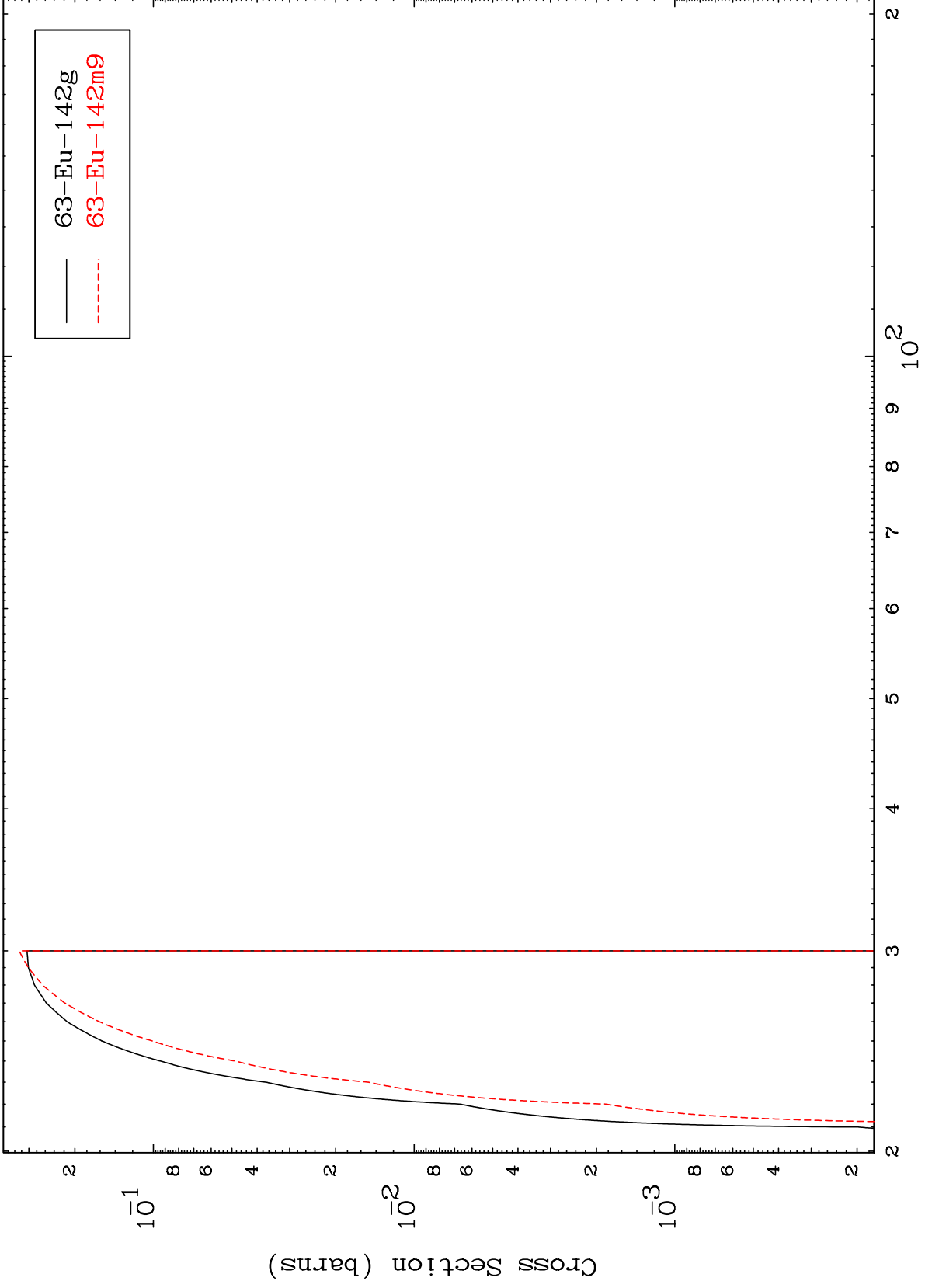
121

MAT 6304

(n,3n)

63-Eu-144

Radionuclide Production Cross Section



122

Incident Energy (MeV)

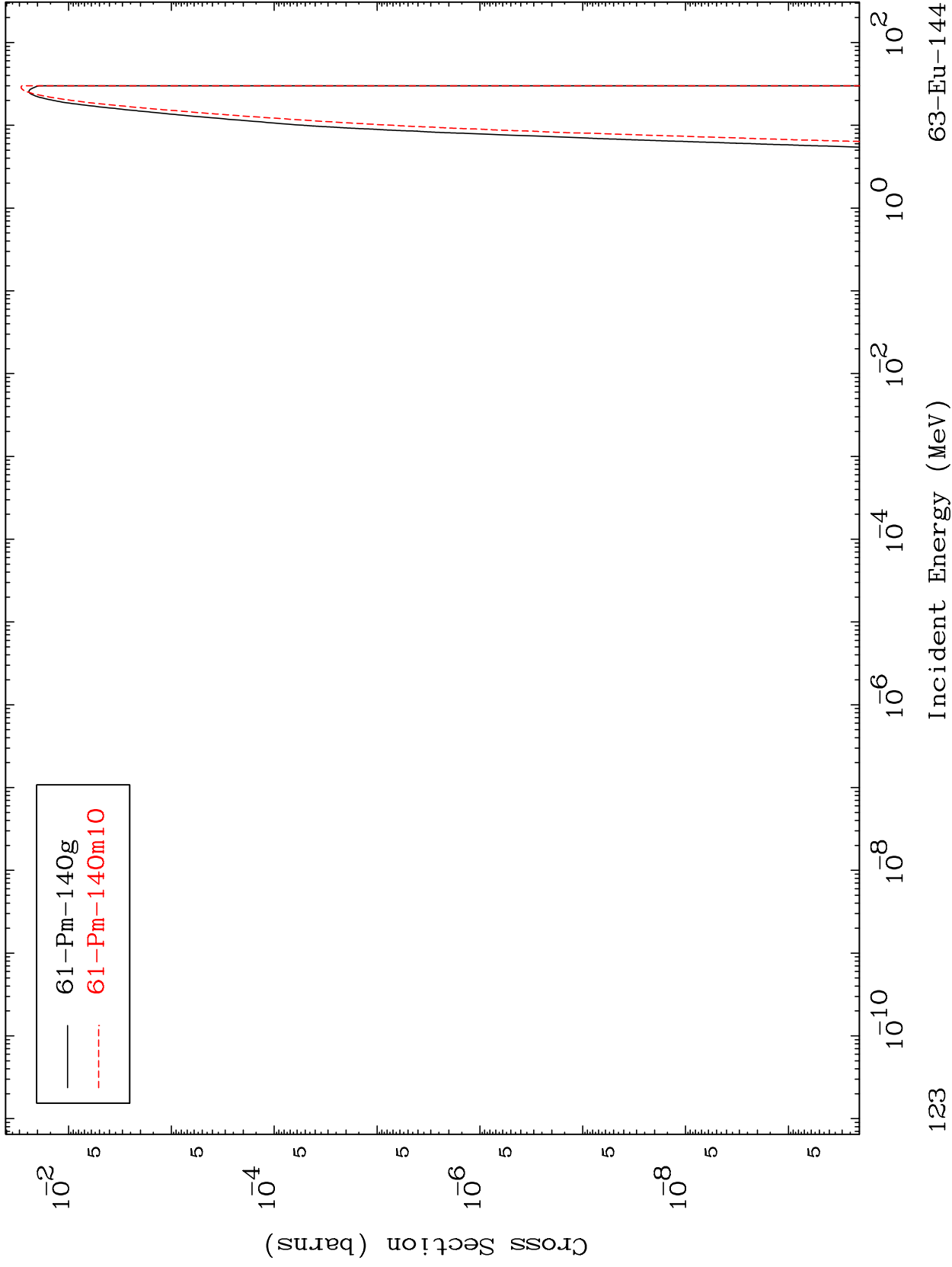
63-Eu-144

MAT 6304

$(n, n') \alpha$

63-Eu-144

Radionuclide Production Cross Section

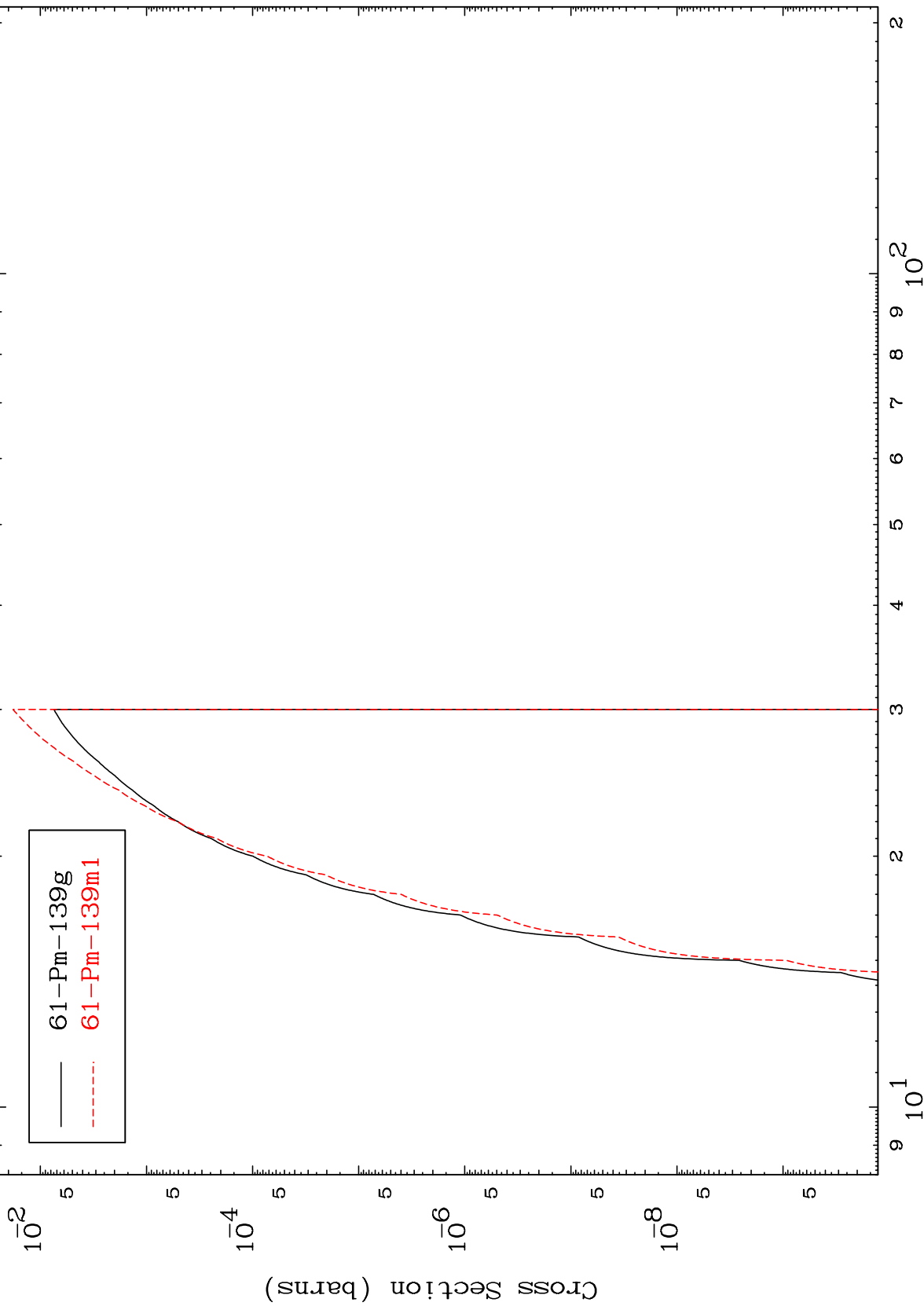


MAT 6304

63-Eu-144

(n,2n) α

Radionuclide Production Cross Section



124

Incident Energy (MeV)

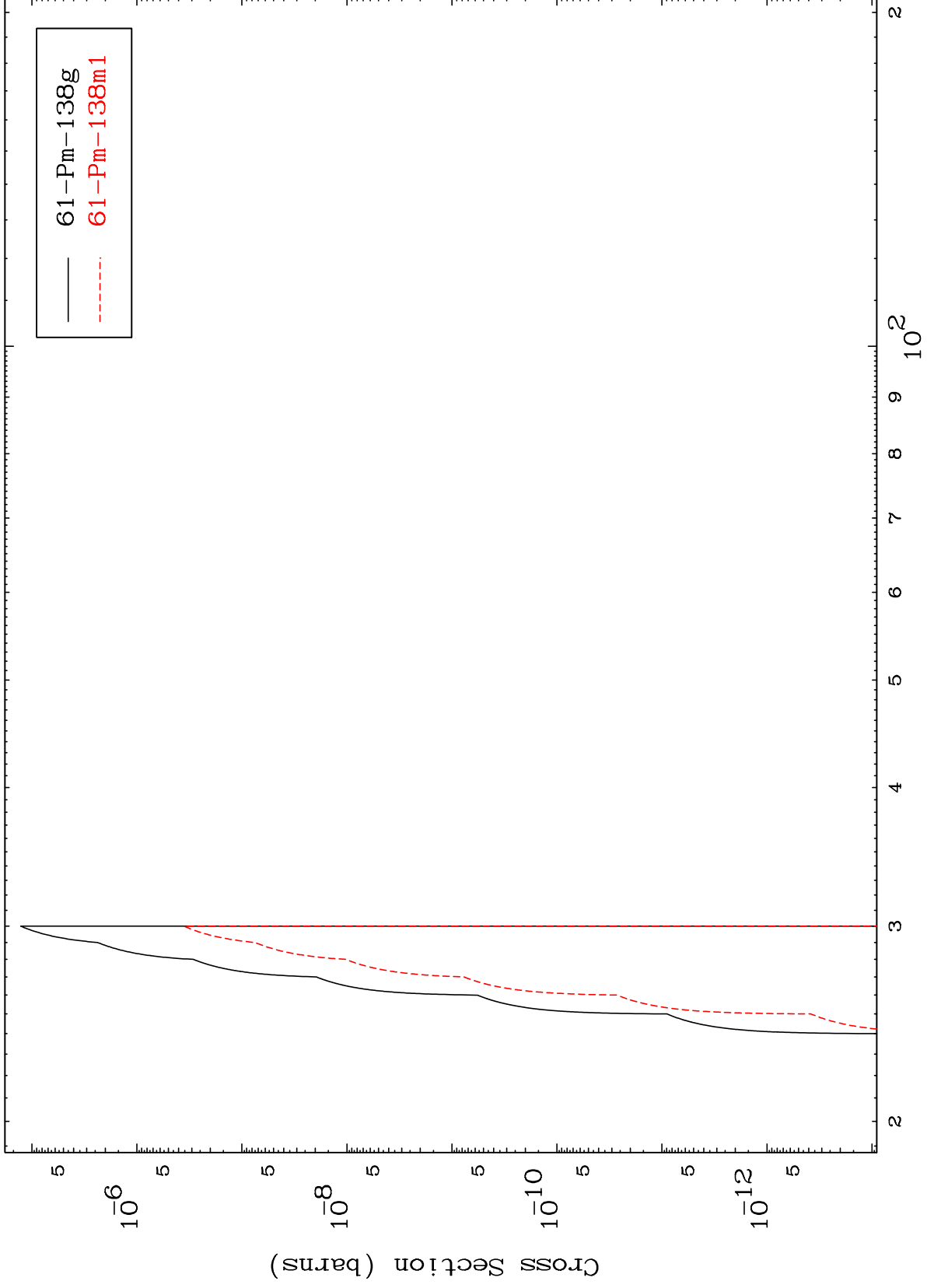
63-Eu-144

MAT 6304

$(n,3n) \alpha$

63-Eu-144

Radionuclide Production Cross Section

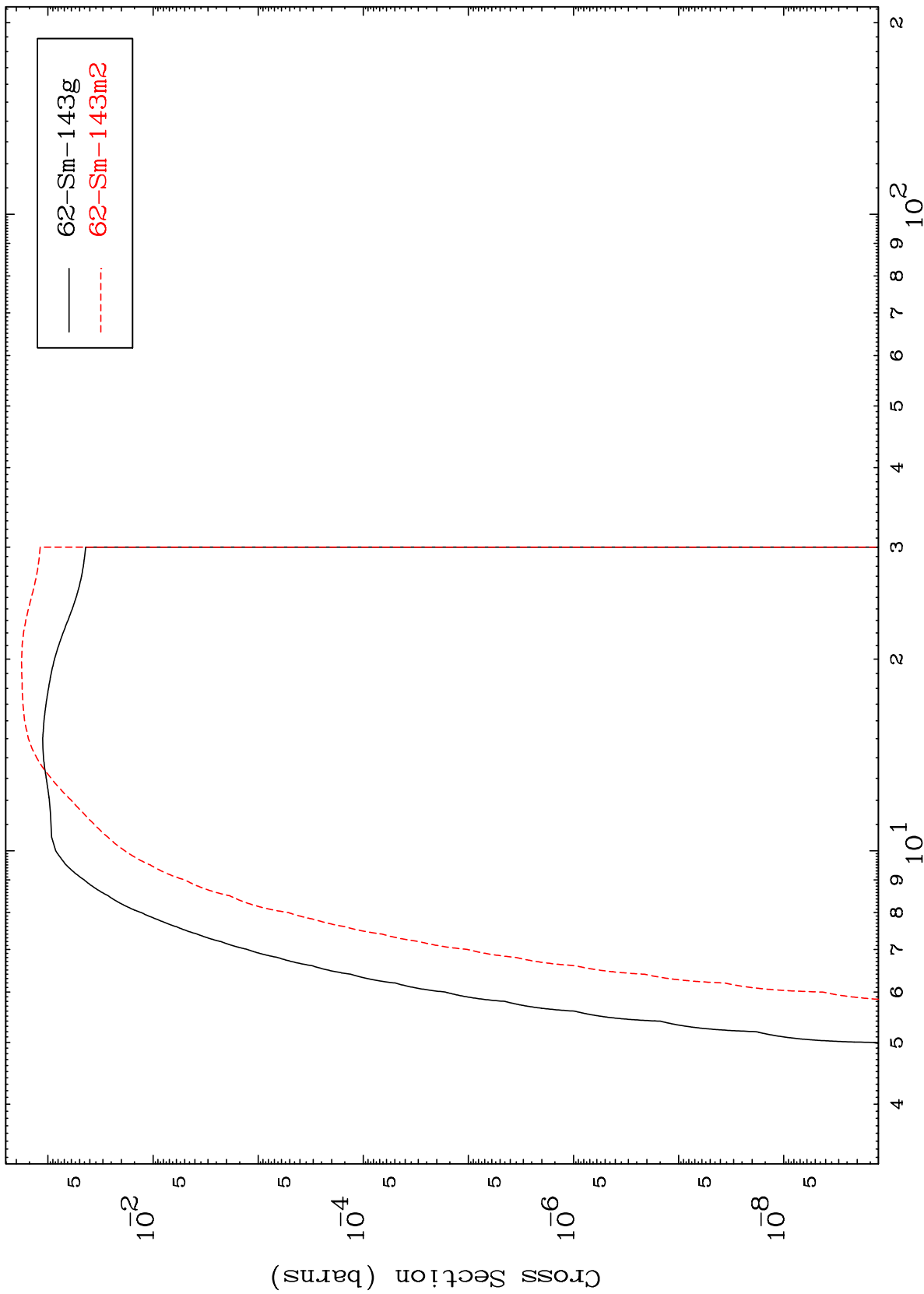


125

Incident Energy (MeV)

63-Eu-144

(n,n') p
Radionuclide Production Cross Section

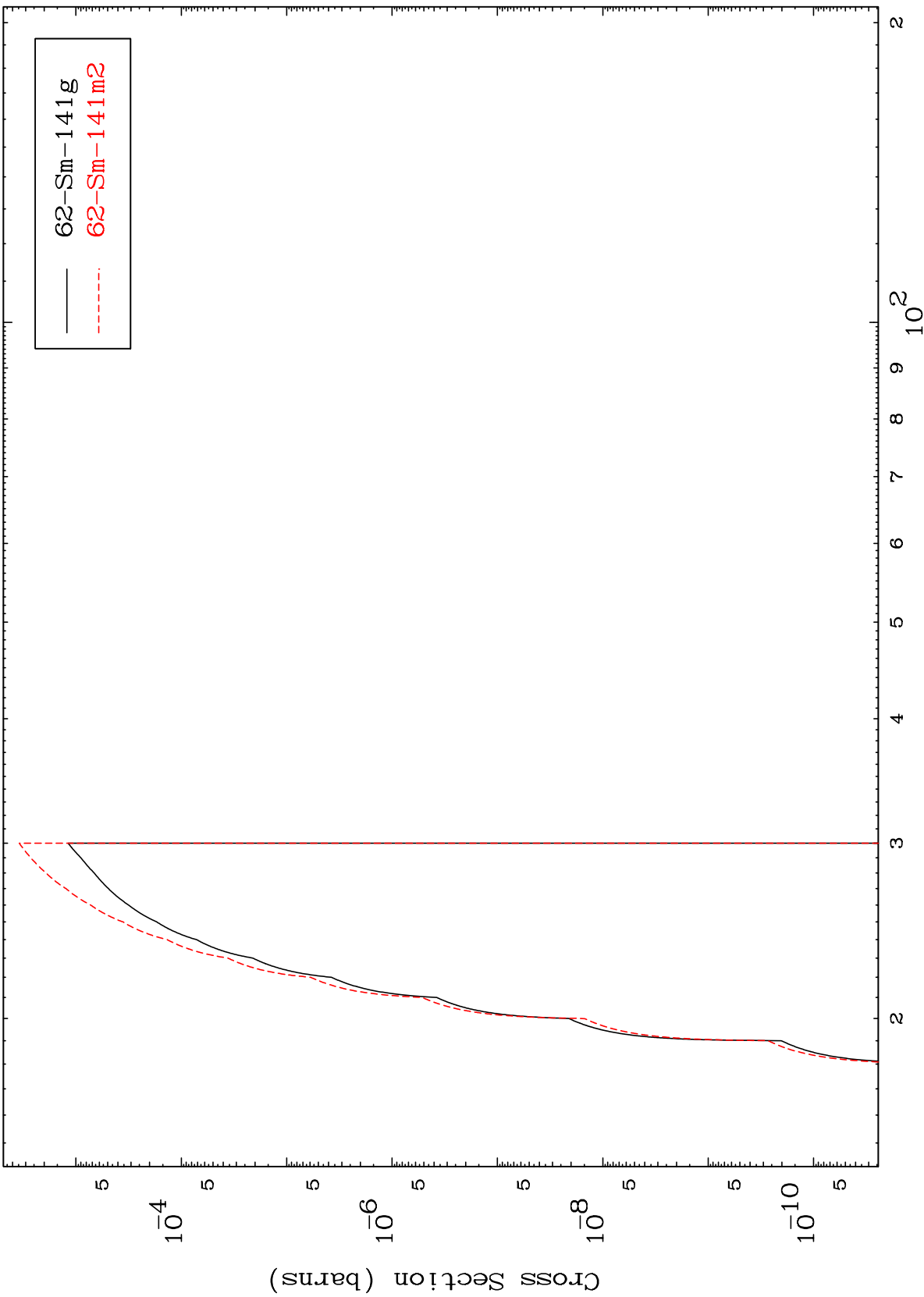


MAT 6304

(n,n') t

63-Eu-144

Radionuclide Production Cross Section

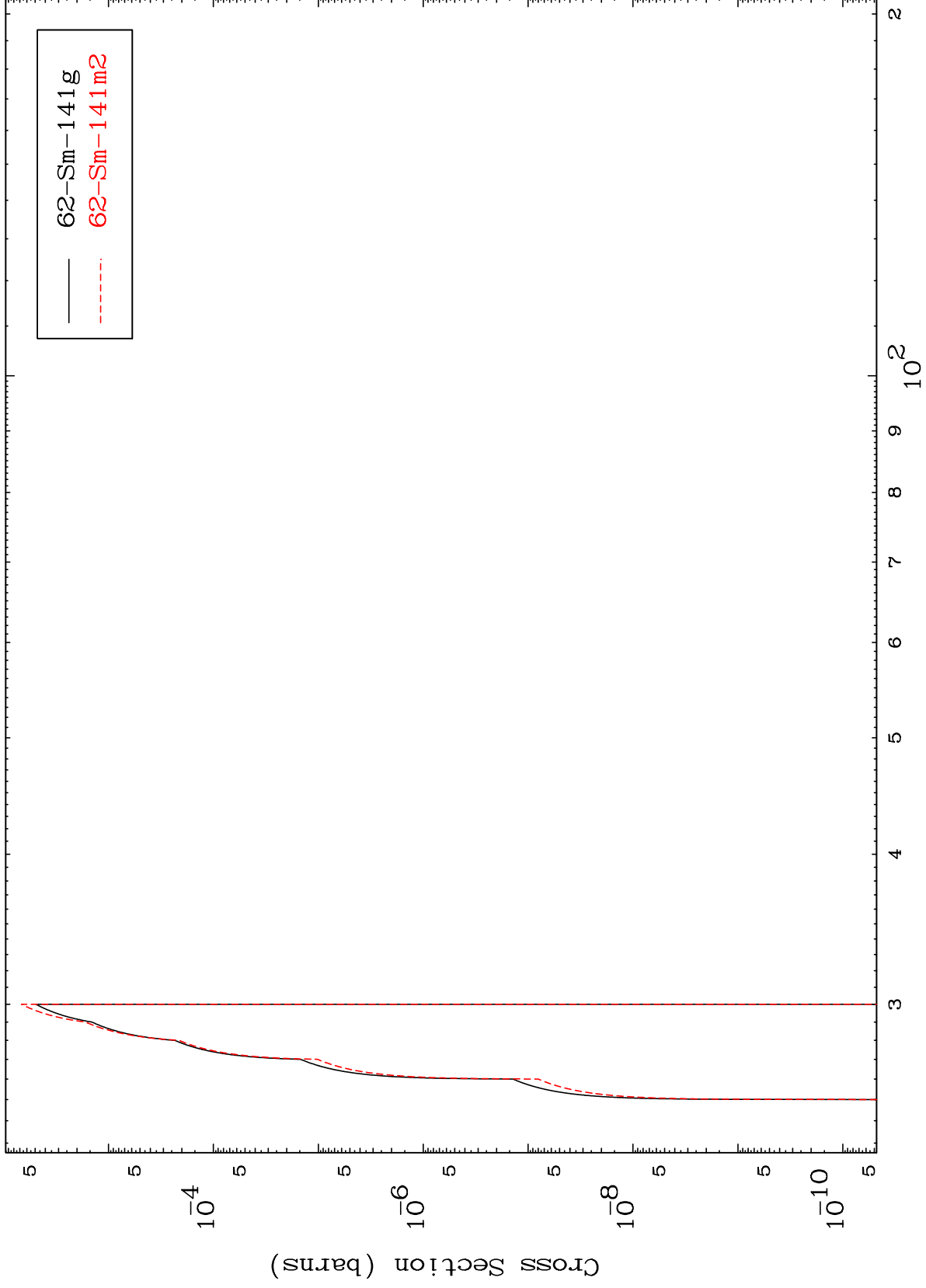


127

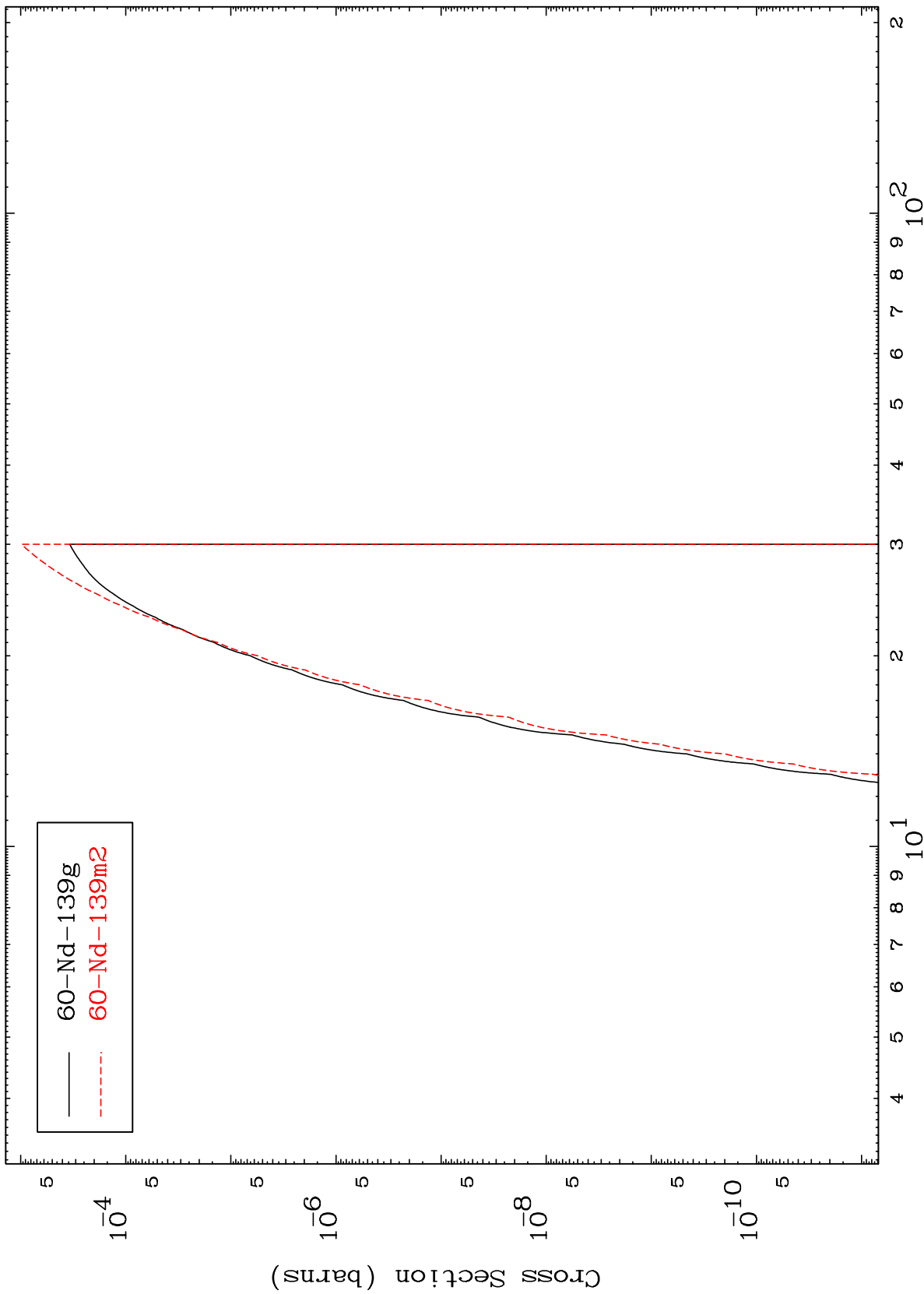
Incident Energy (MeV)

63-Eu-144

Radionuclide Production Cross Section



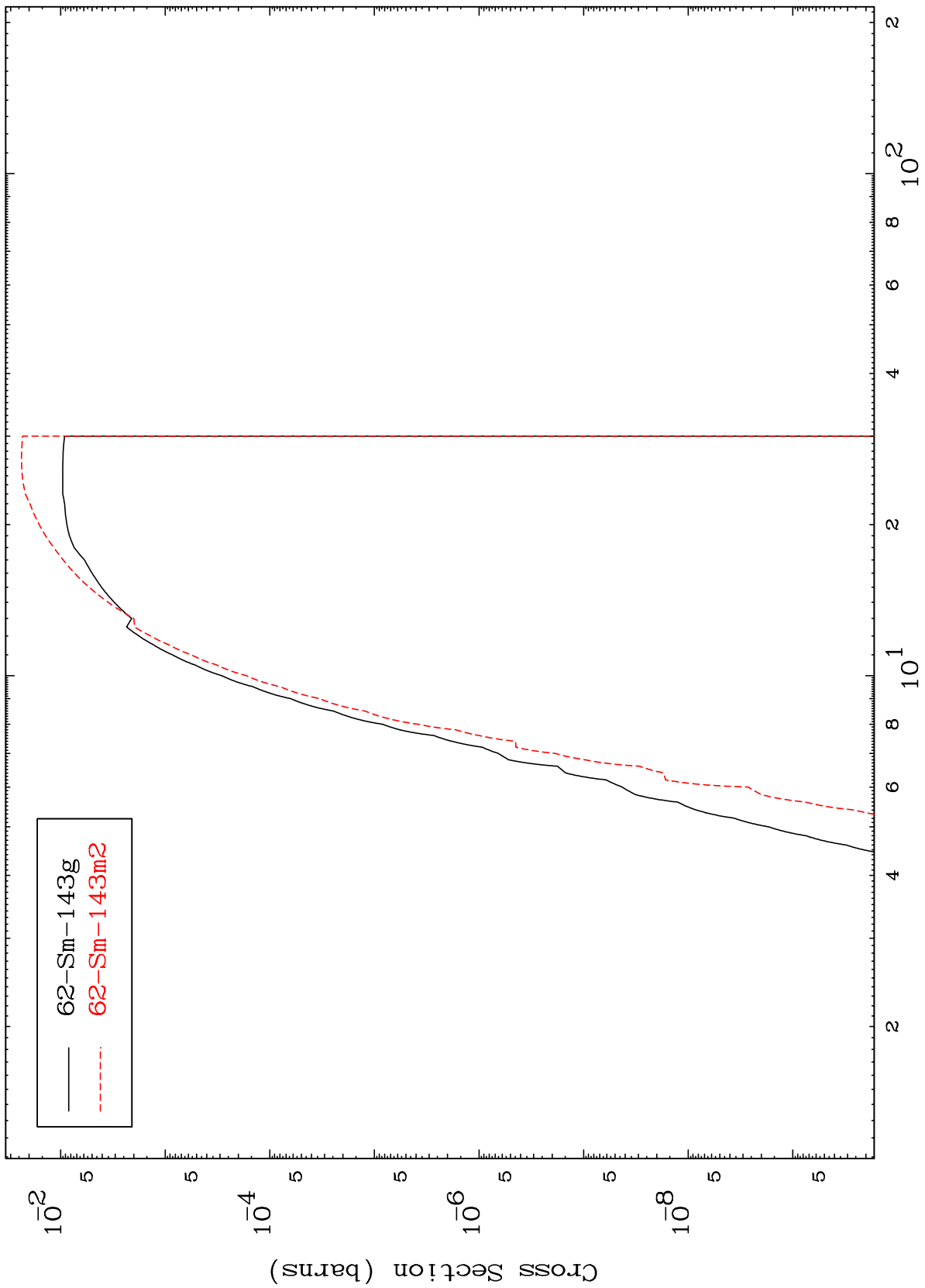
Radionuclide Production Cross Section



MAT 6304

63-Eu-144

(n,d)
Radionuclide Production Cross Section



130

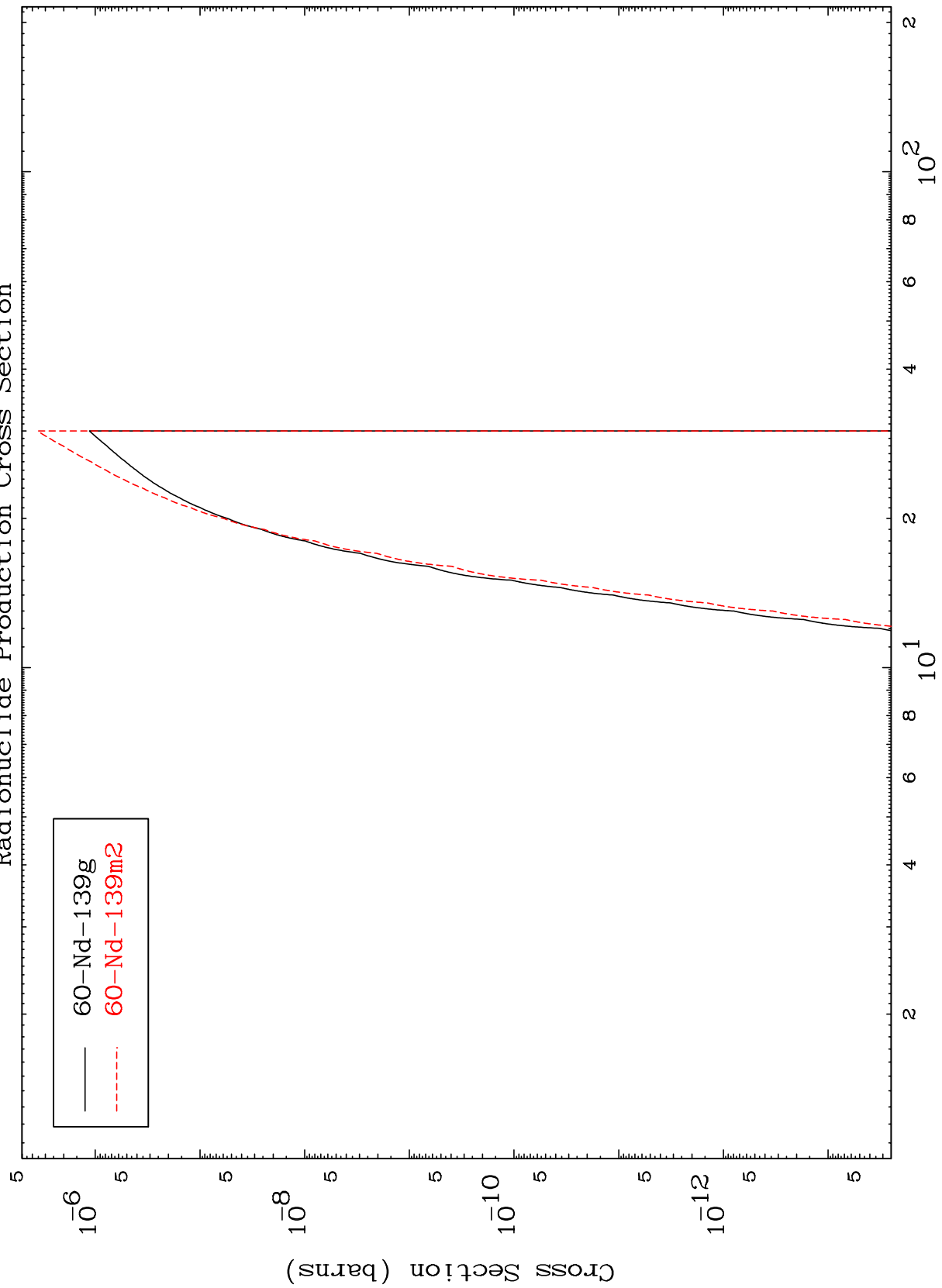
63-Eu-144

MAT 6304

(n,d) α

63-Eu-144

Radionuclide Production Cross Section



131

Incident Energy (MeV)

63-Eu-144