

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

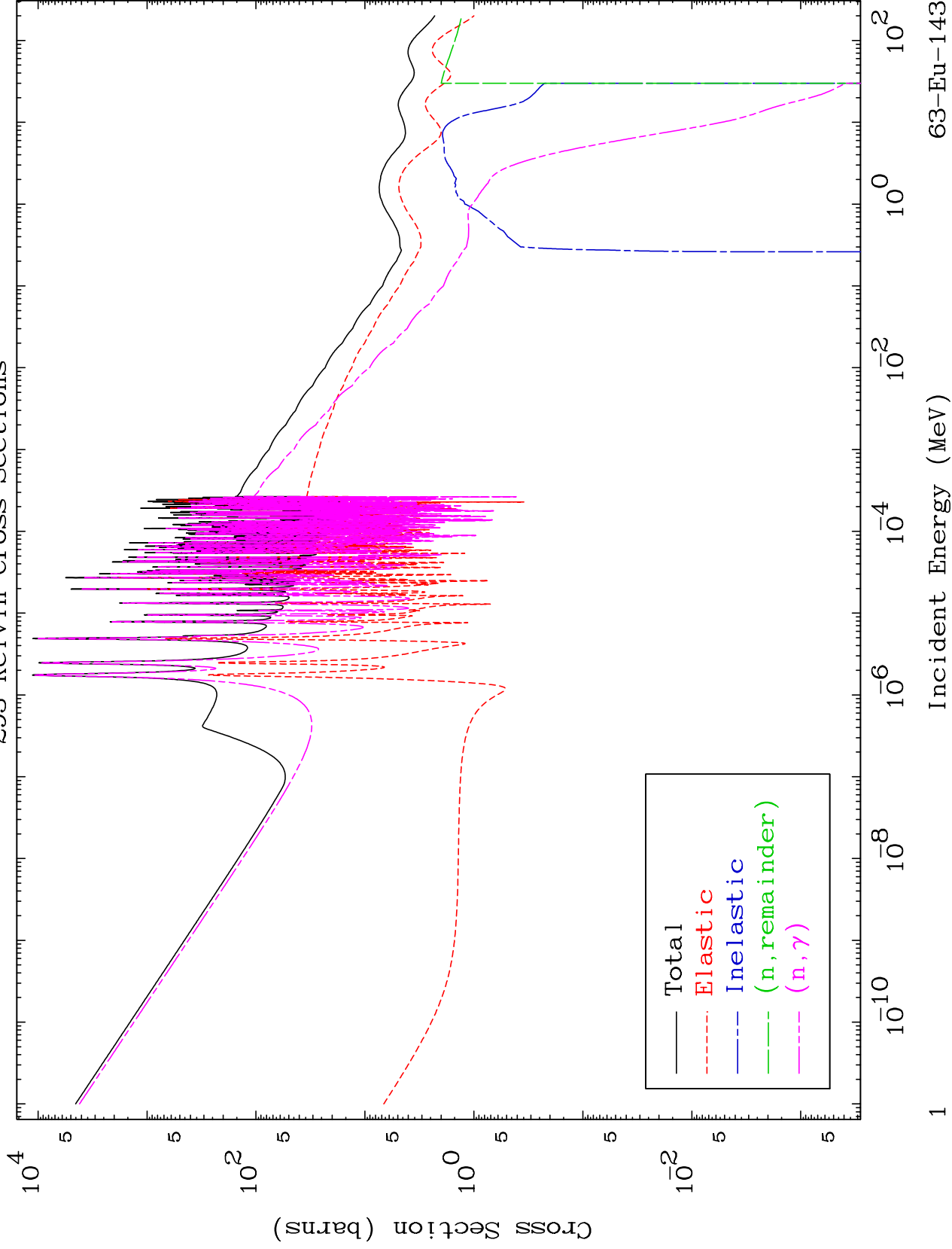
Press Mouse Button to Start

MAT 6301

Major

293 Kelvin Cross Sections

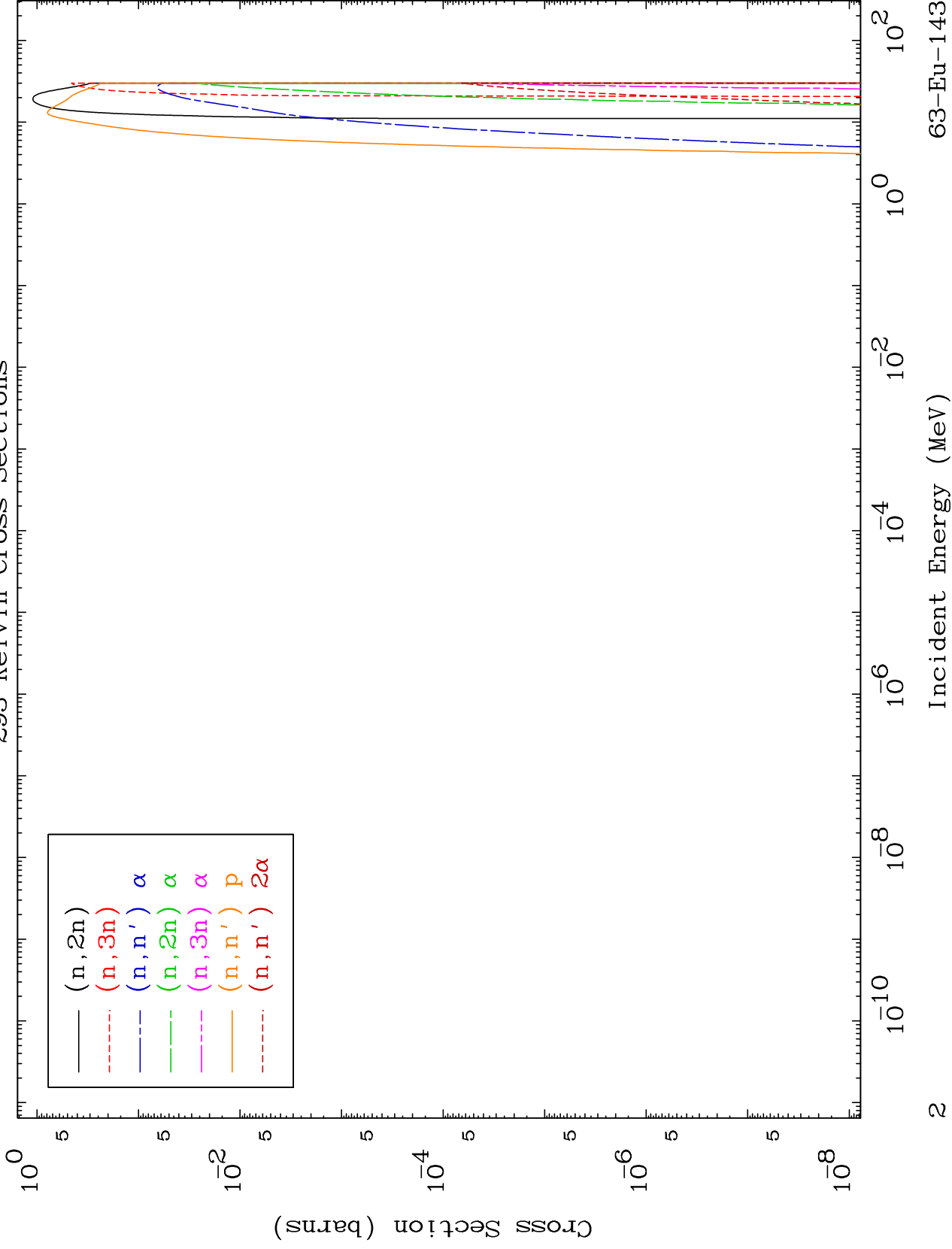
63-Eu-143

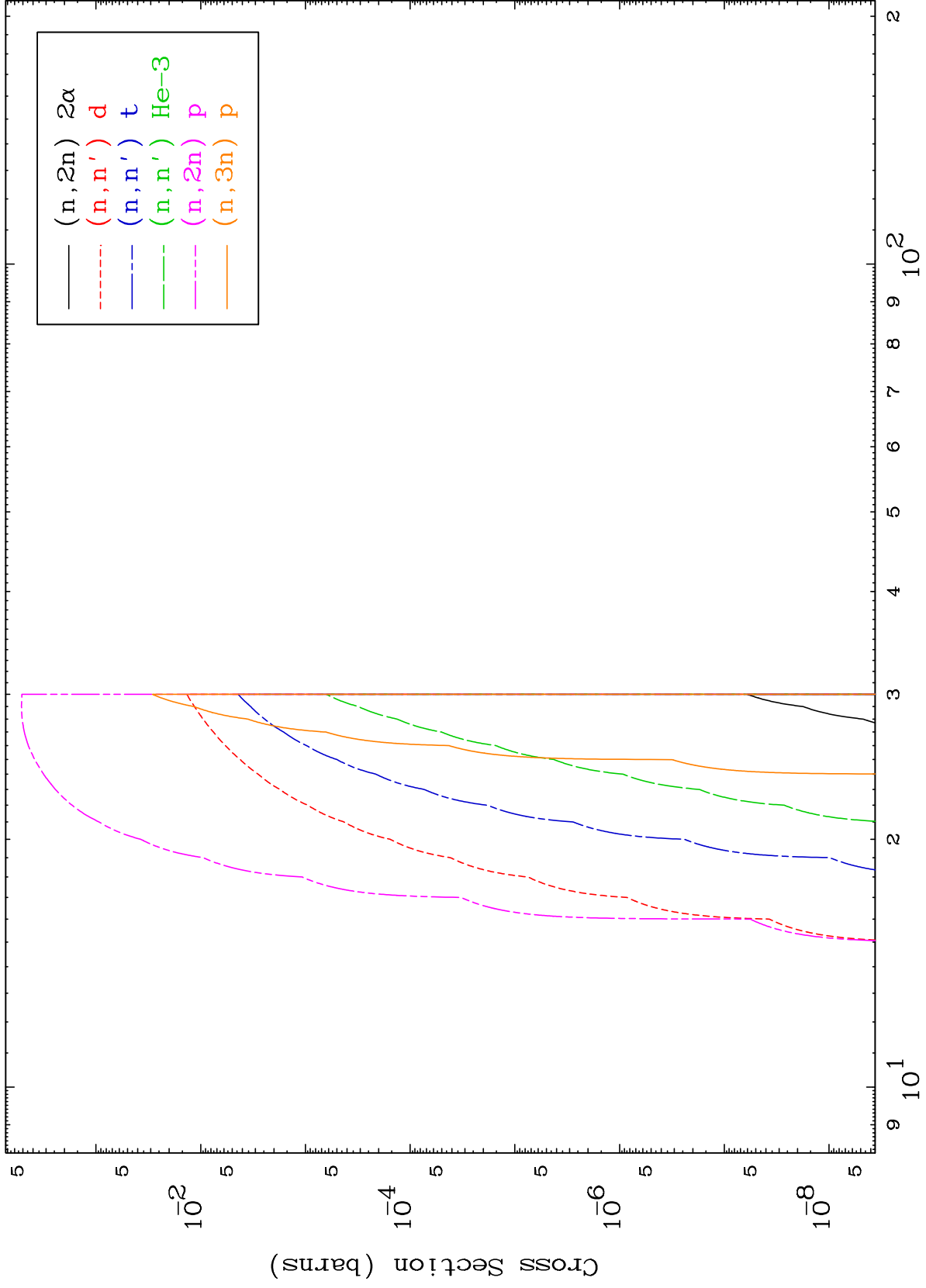


MAT 6301

Neutron Production
293 Kelvin Cross Sections

63-Eu-143

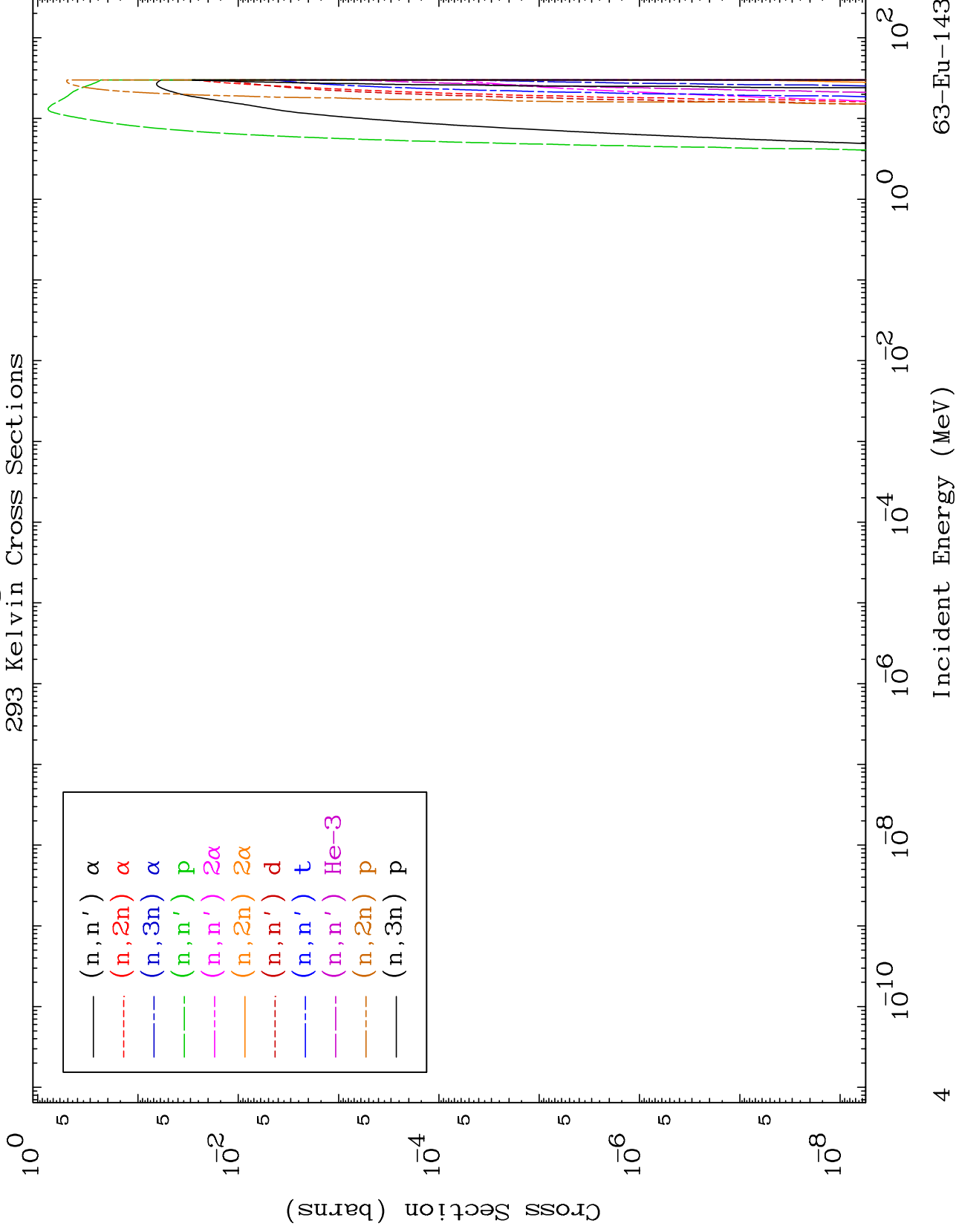




MAT 6301

Charged Particle
293 Kelvin Cross Sections

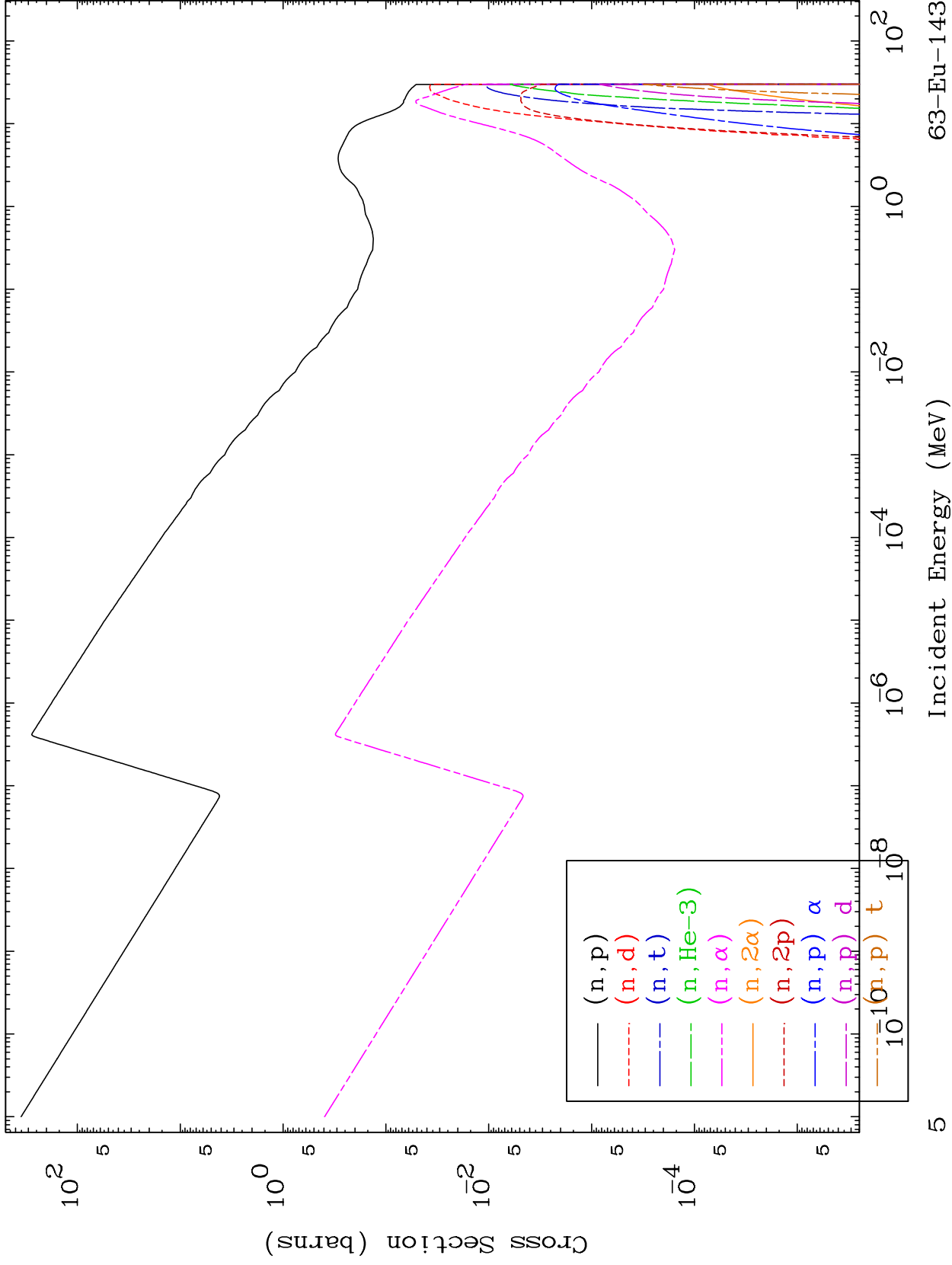
63-Eu-143

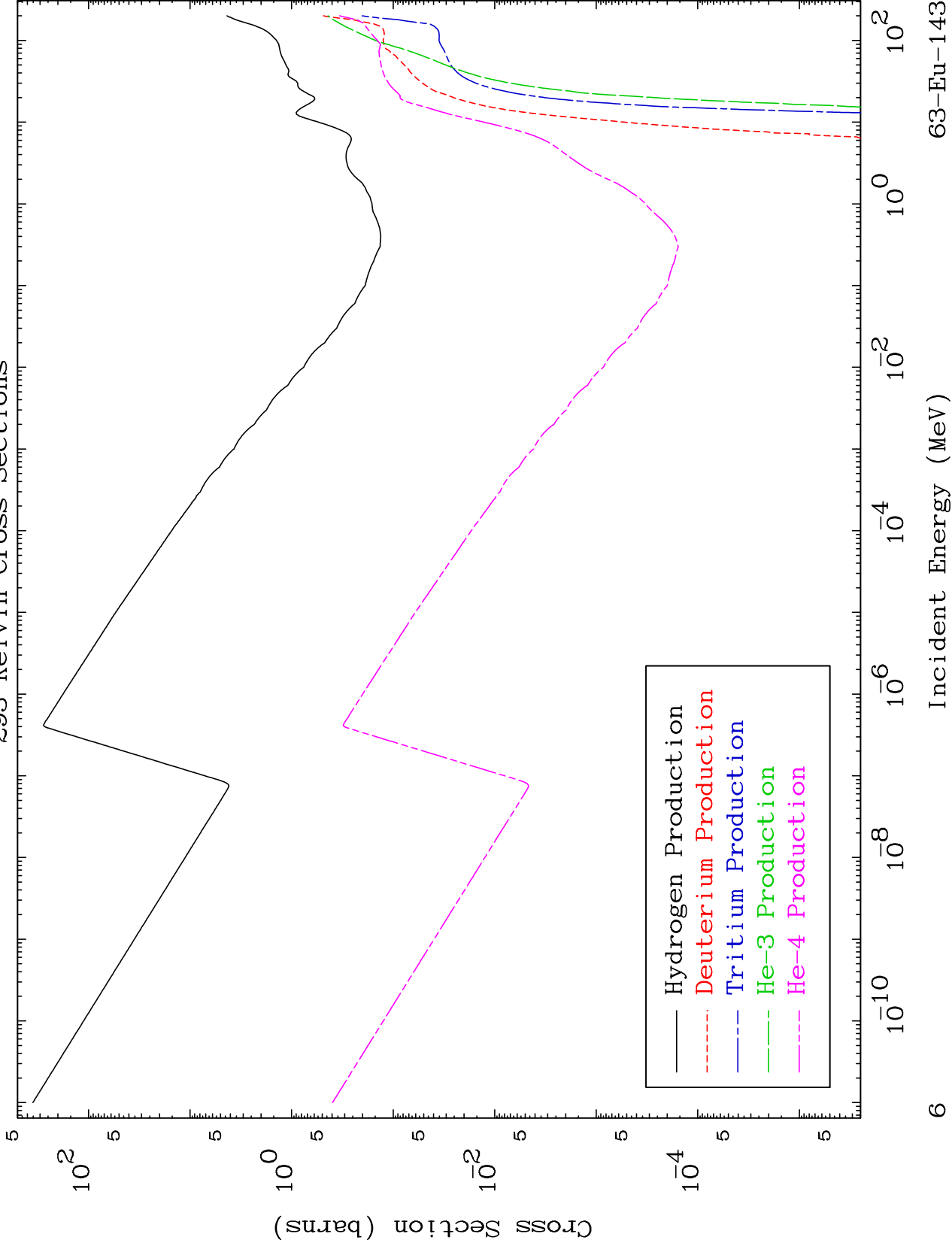


MAT 6301

Charged Particle
293 Kelvin Cross Sections

63-Eu-143



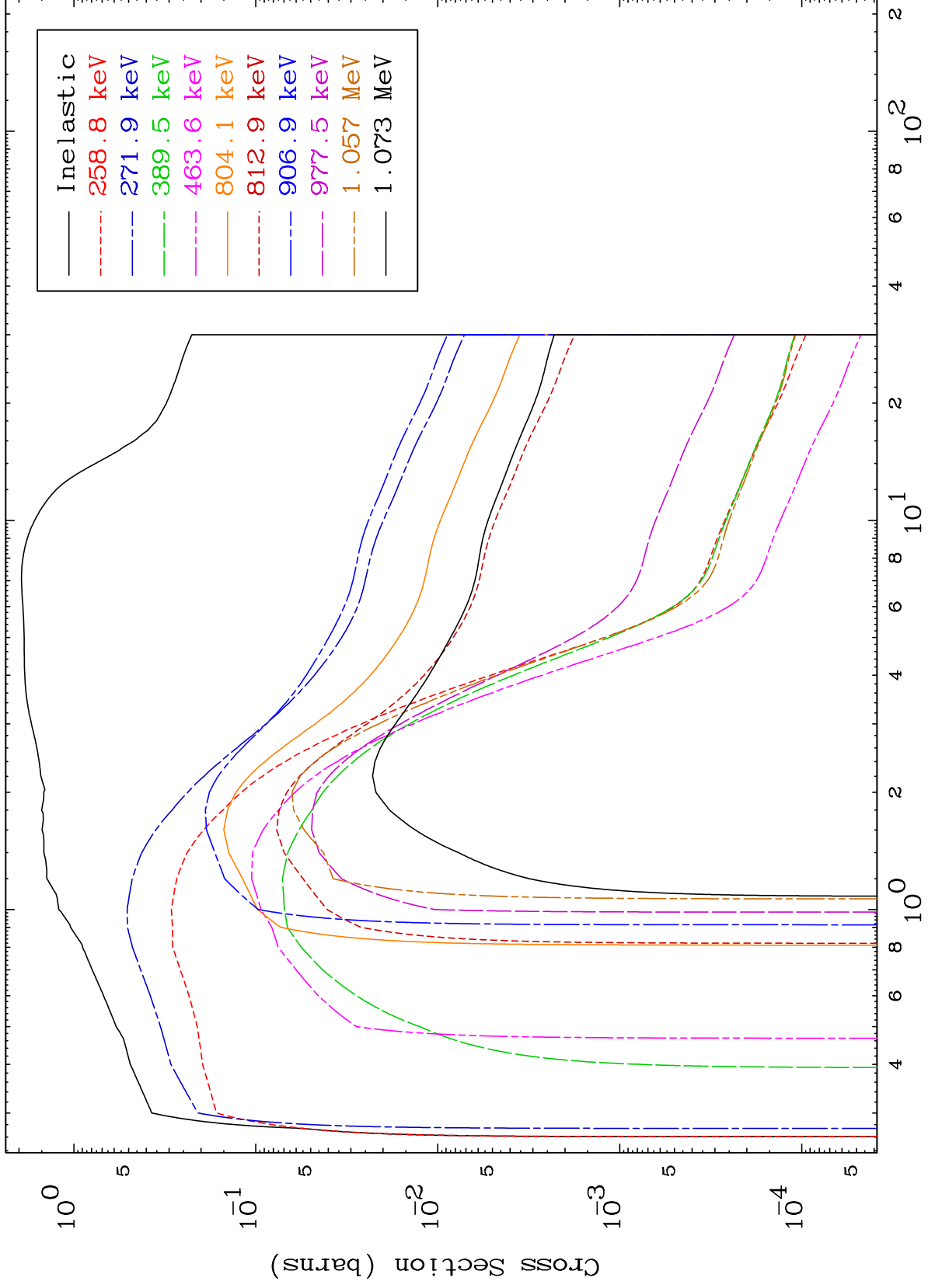


MAT 6301

(n,n') Level

63-Eu-143

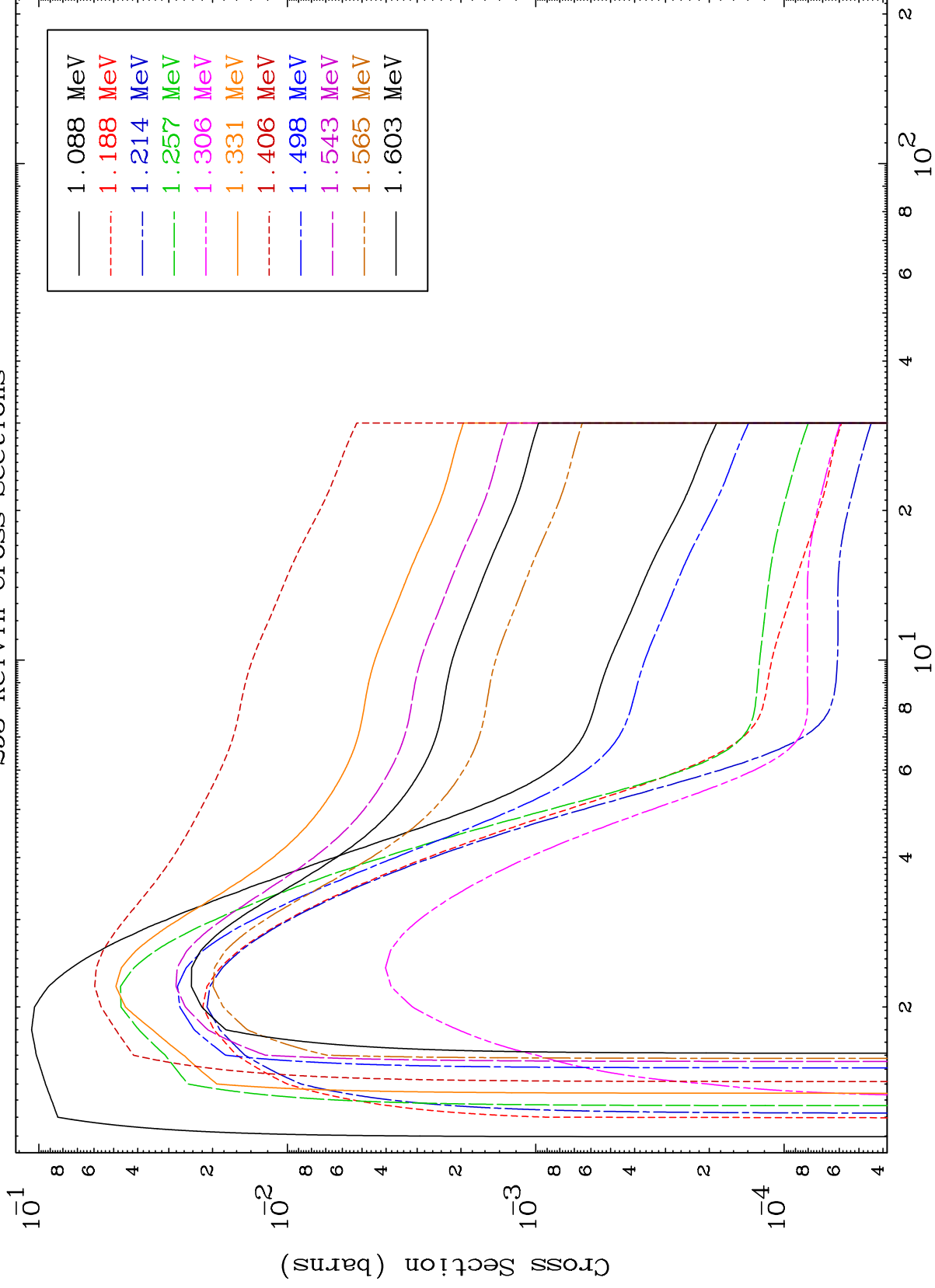
293 Kelvin Cross Sections



MAT 6301

(n,n') Level
293 Kelvin Cross Sections

63-Eu-143

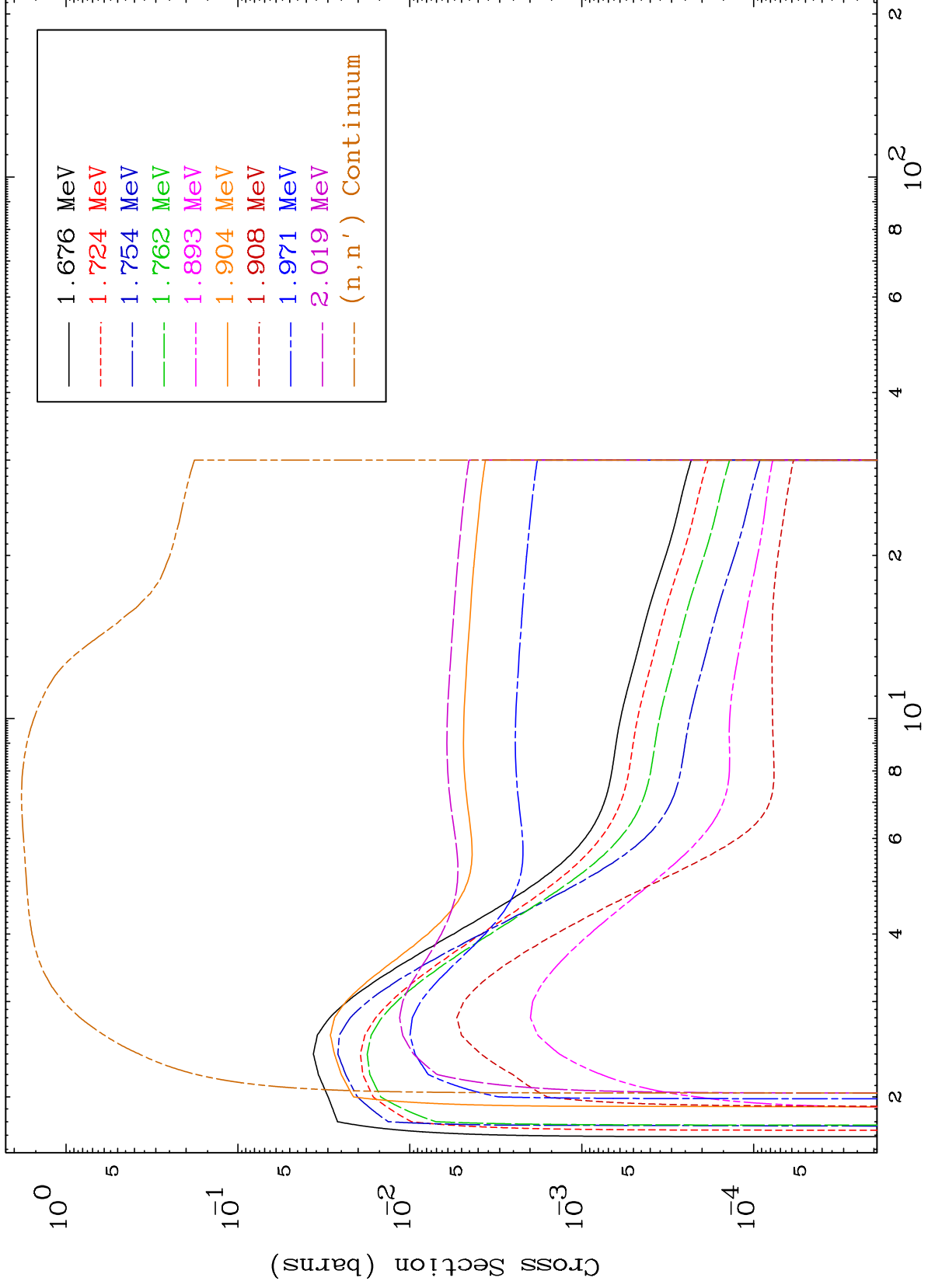


8

Incident Energy (MeV)

63-Eu-143

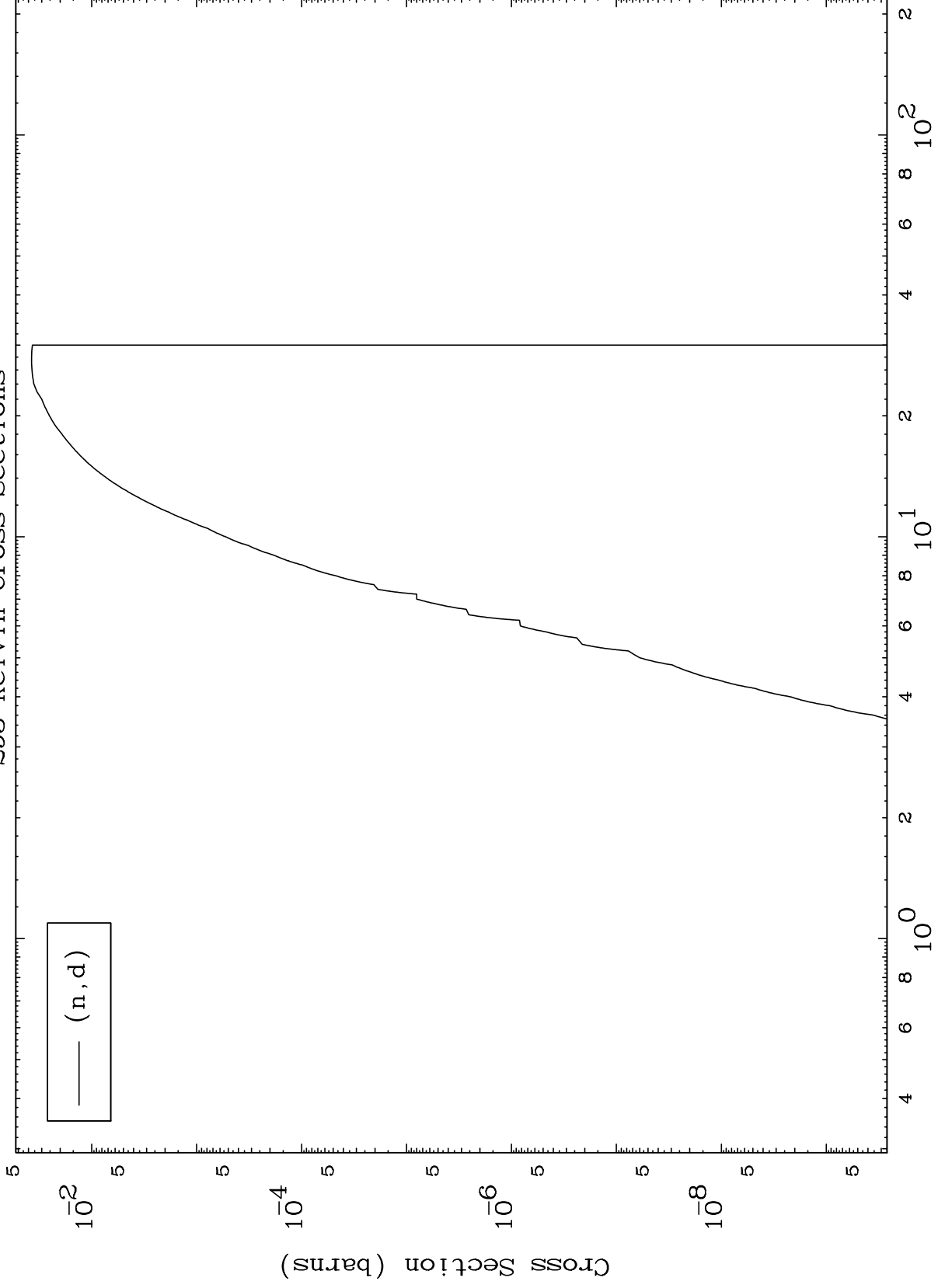
293 Kelvin Cross Sections



MAT 6301

(n,d) Levels
293 Kelvin Cross Sections

63-Eu-143



11

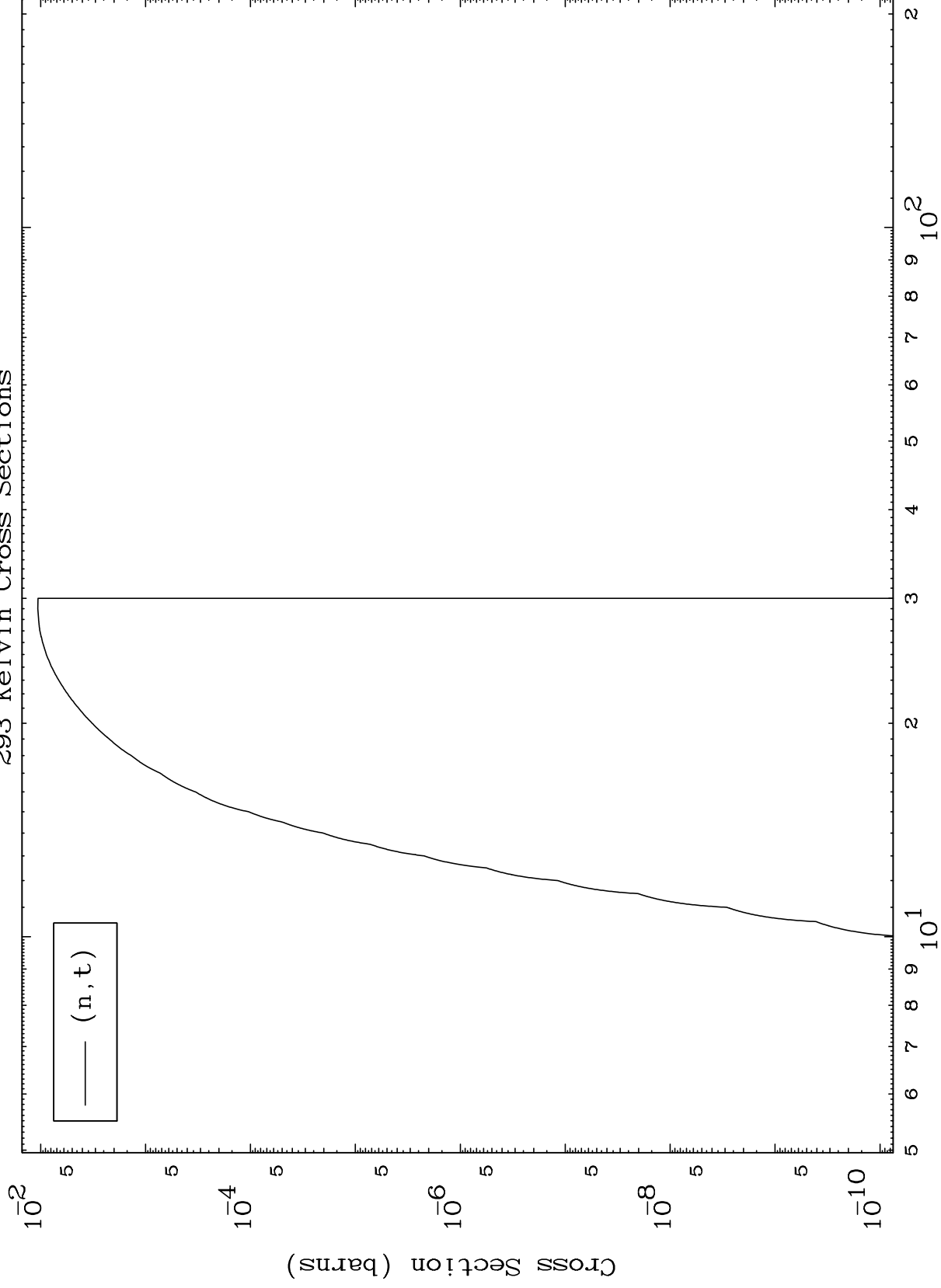
Incident Energy (MeV)

63-Eu-143

MAT 6301

(n,t) Levels
293 Kelvin Cross Sections

63-Eu-143



12

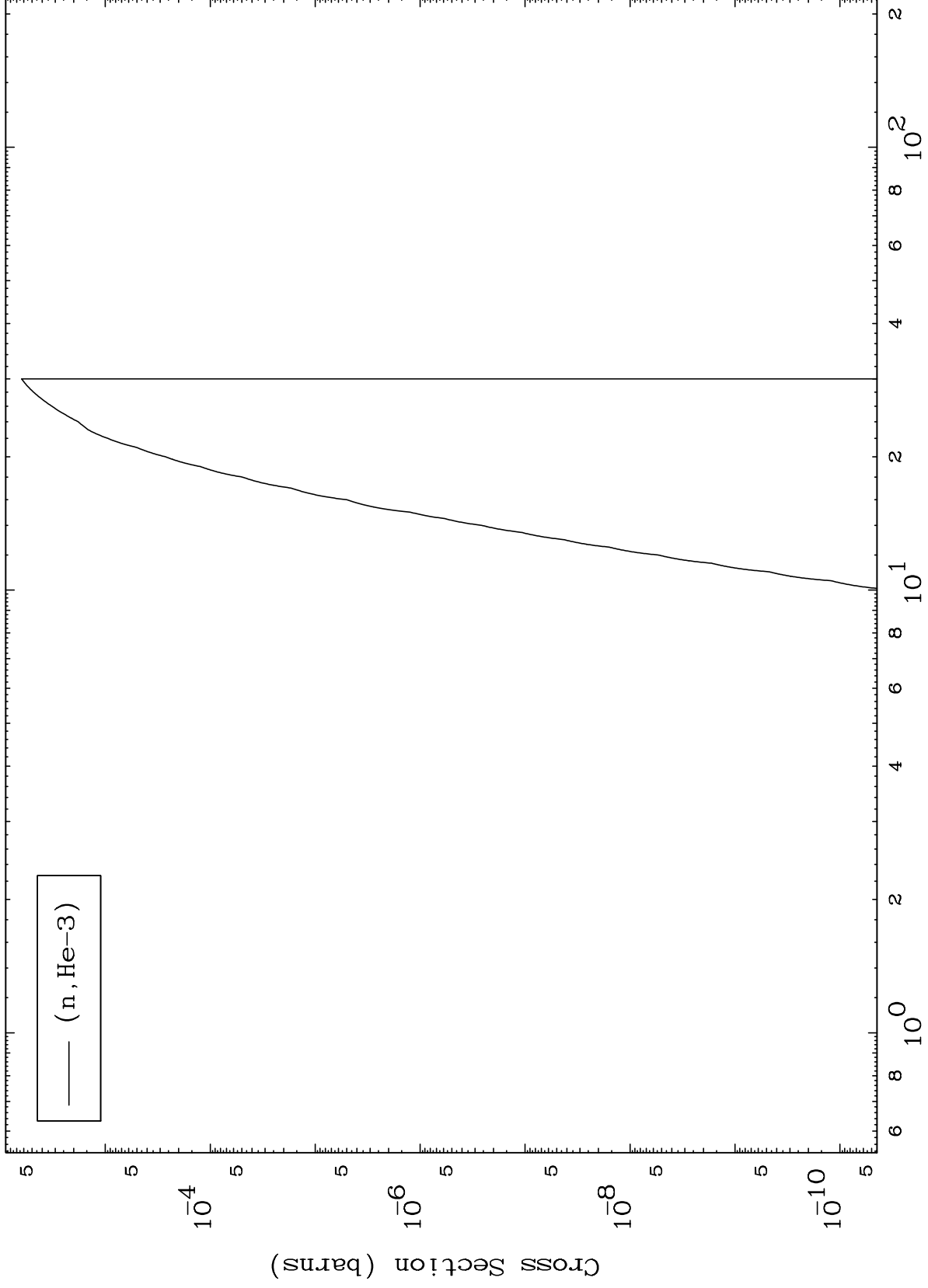
Incident Energy (MeV)

63-Eu-143

MAT 6301

(n,He3) Levels
293 Kelvin Cross Sections

63-Eu-143



13

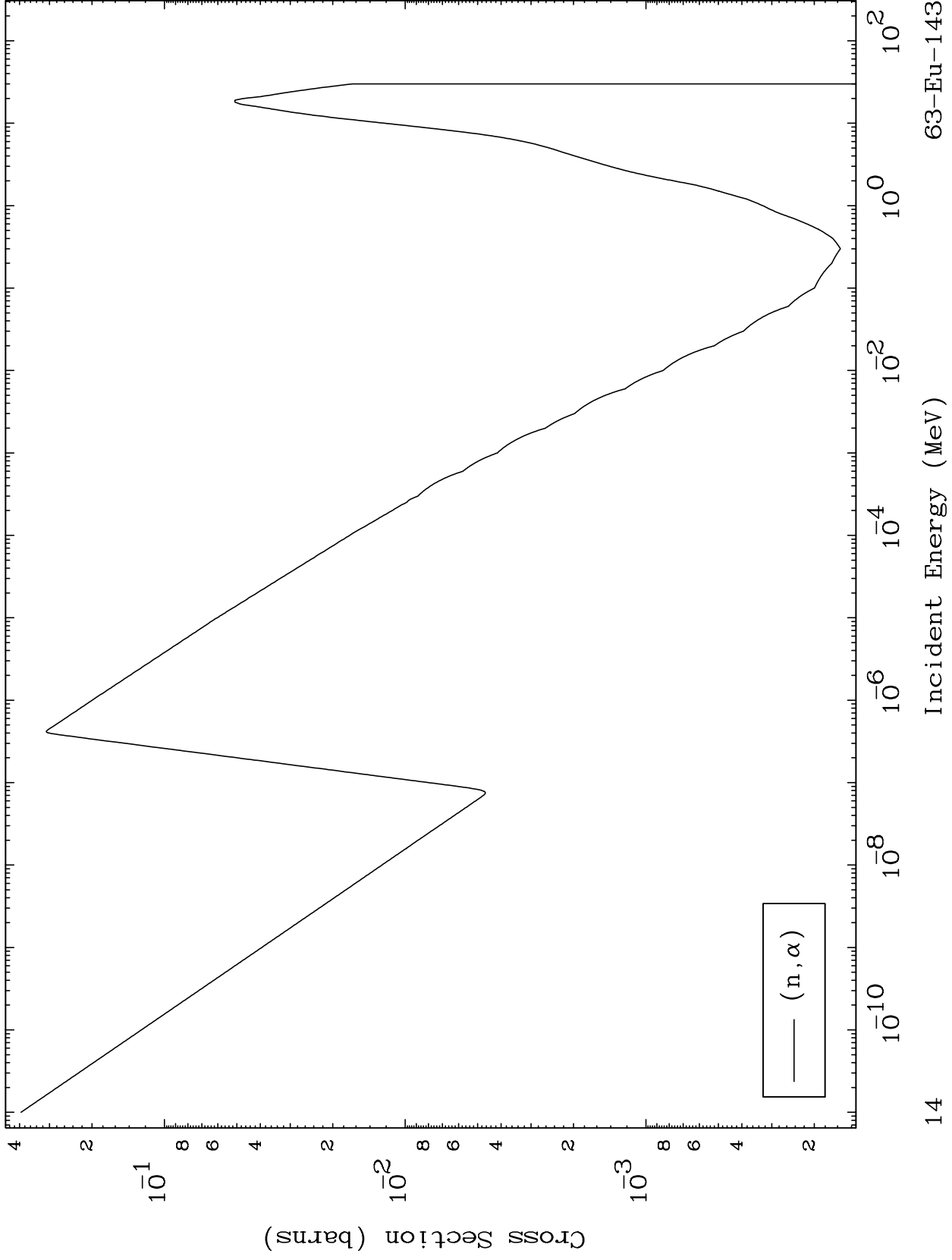
Incident Energy (MeV)

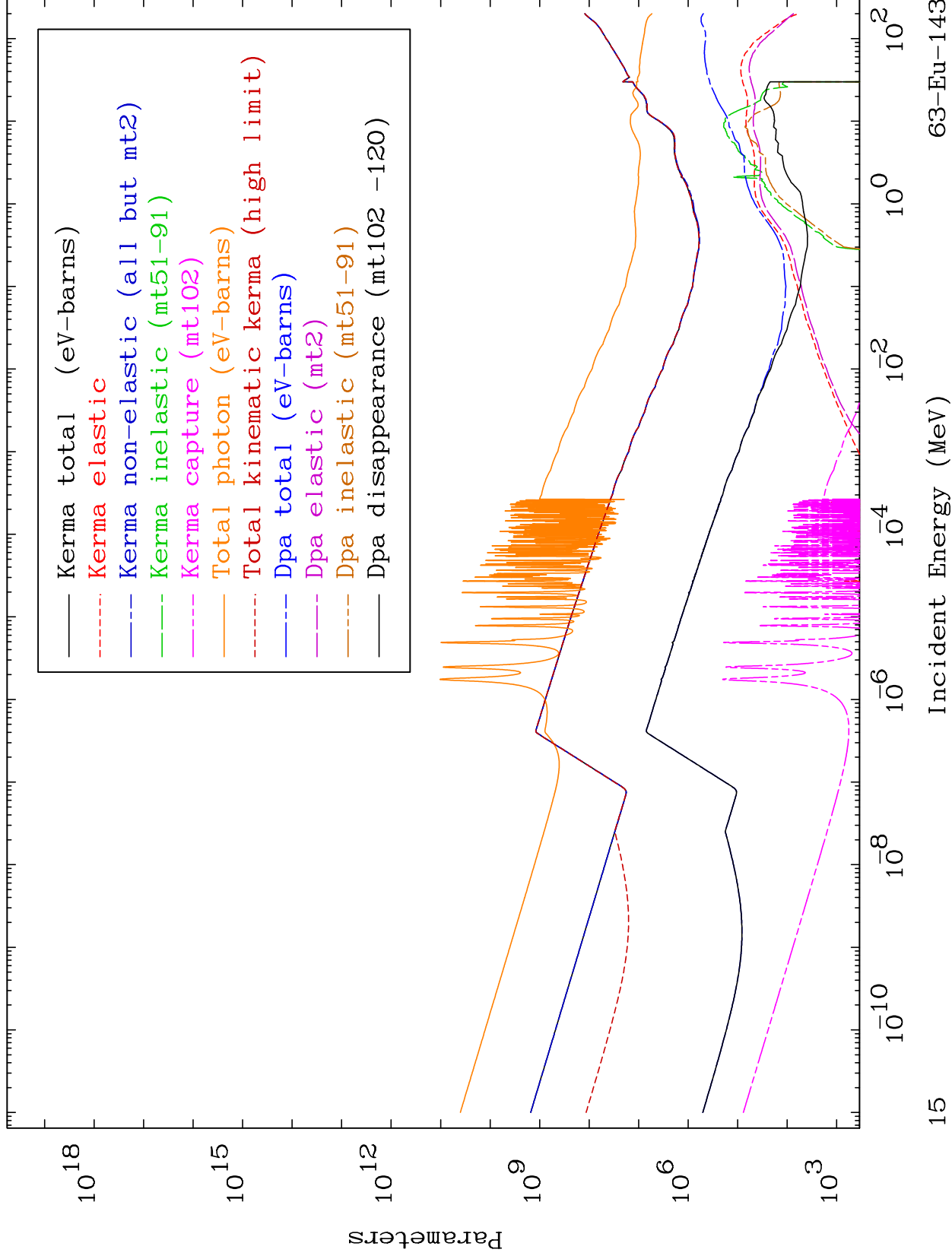
63-Eu-143

MAT 6301

(n, α) Levels
293 Kelvin Cross Sections

63-Eu-143

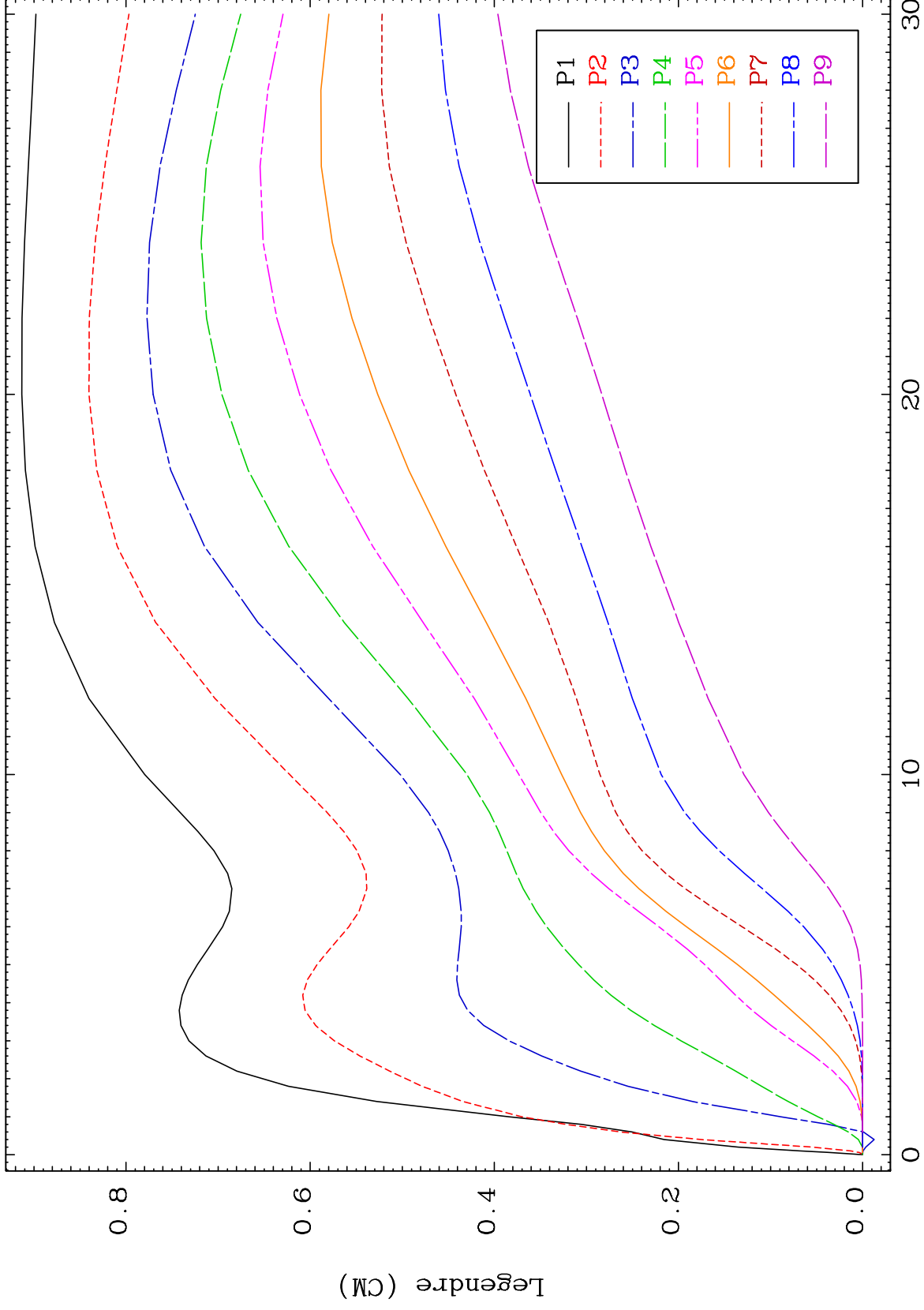




MAT 6301

Elastic Legendre Coefficients

63-Eu-143



16

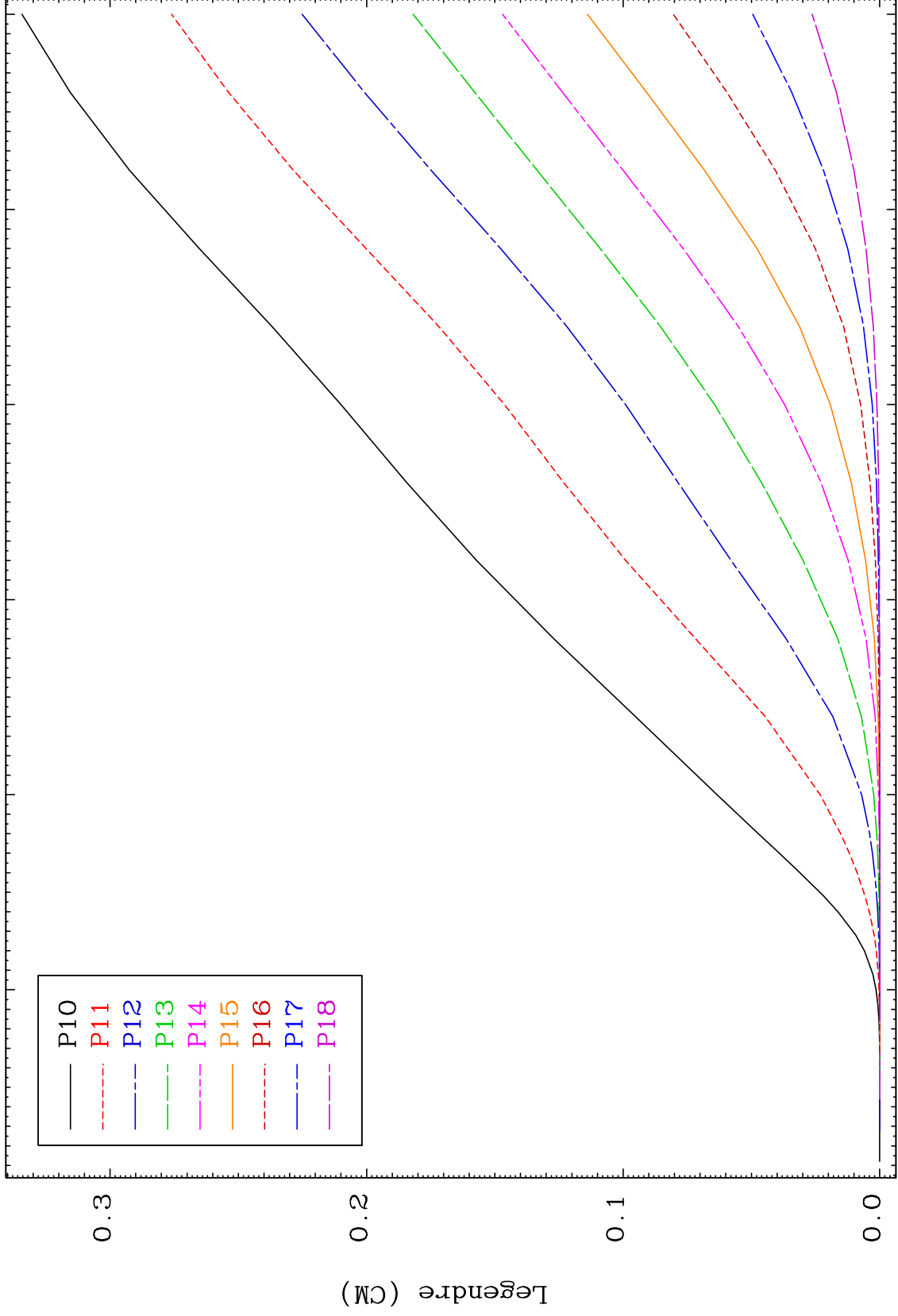
Incident Energy (MeV)

63-Eu-143

MAT 6301

Elastic
Legendre Coefficients

63-Eu-143



17

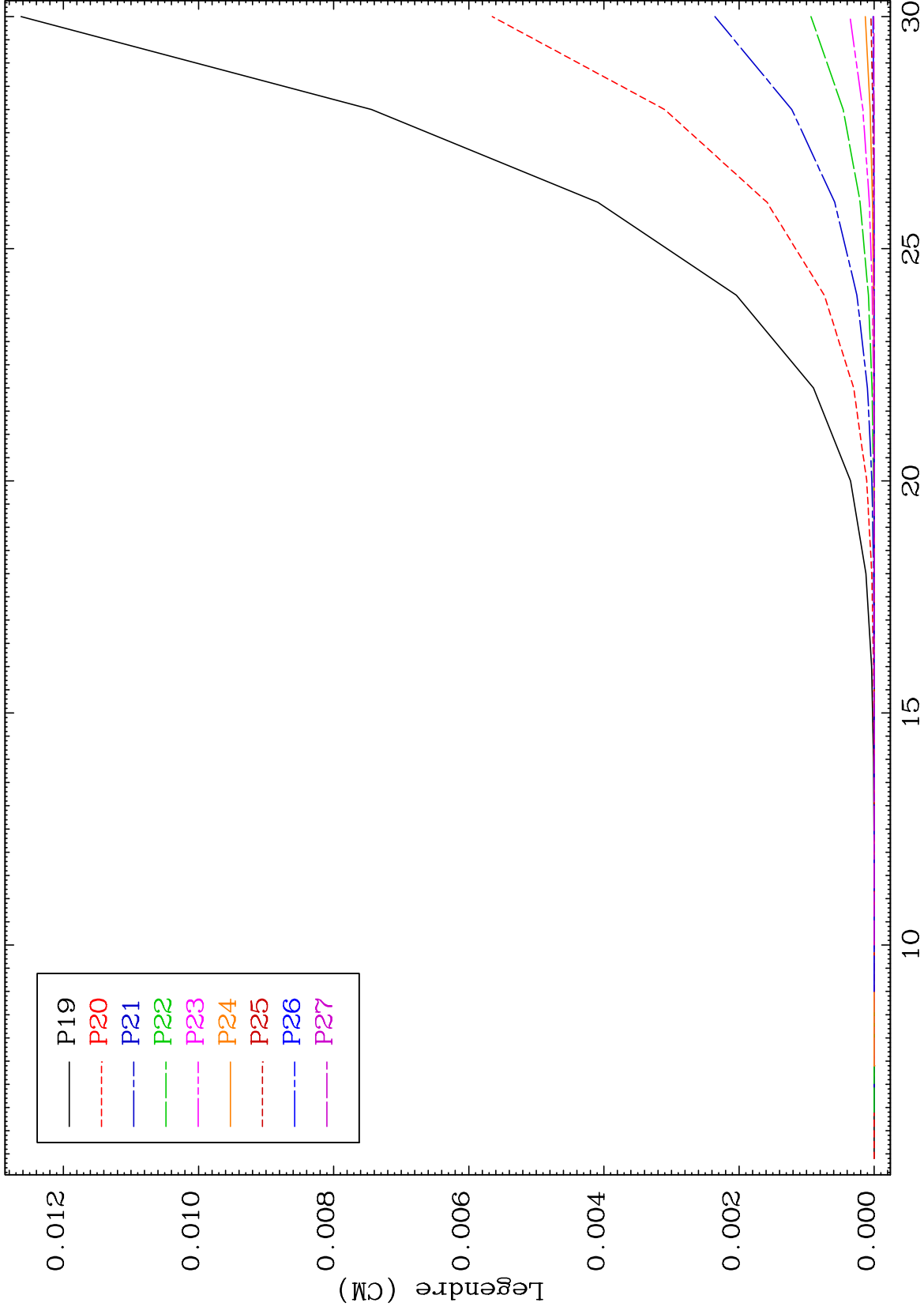
Incident Energy (MeV)

63-Eu-143

MAT 6301

Elastic Legendre Coefficients

63-Eu-143



18

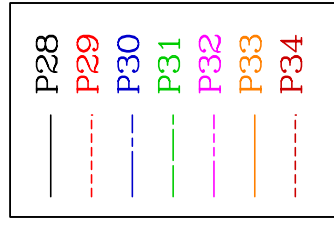
Incident Energy (MeV)

63-Eu-143

MAT 6301

Elastic
Legendre Coefficients

63-Eu-143



$\times 10^{-6}$

Legendre (CM)

1.0

0.5

0.0

15

20

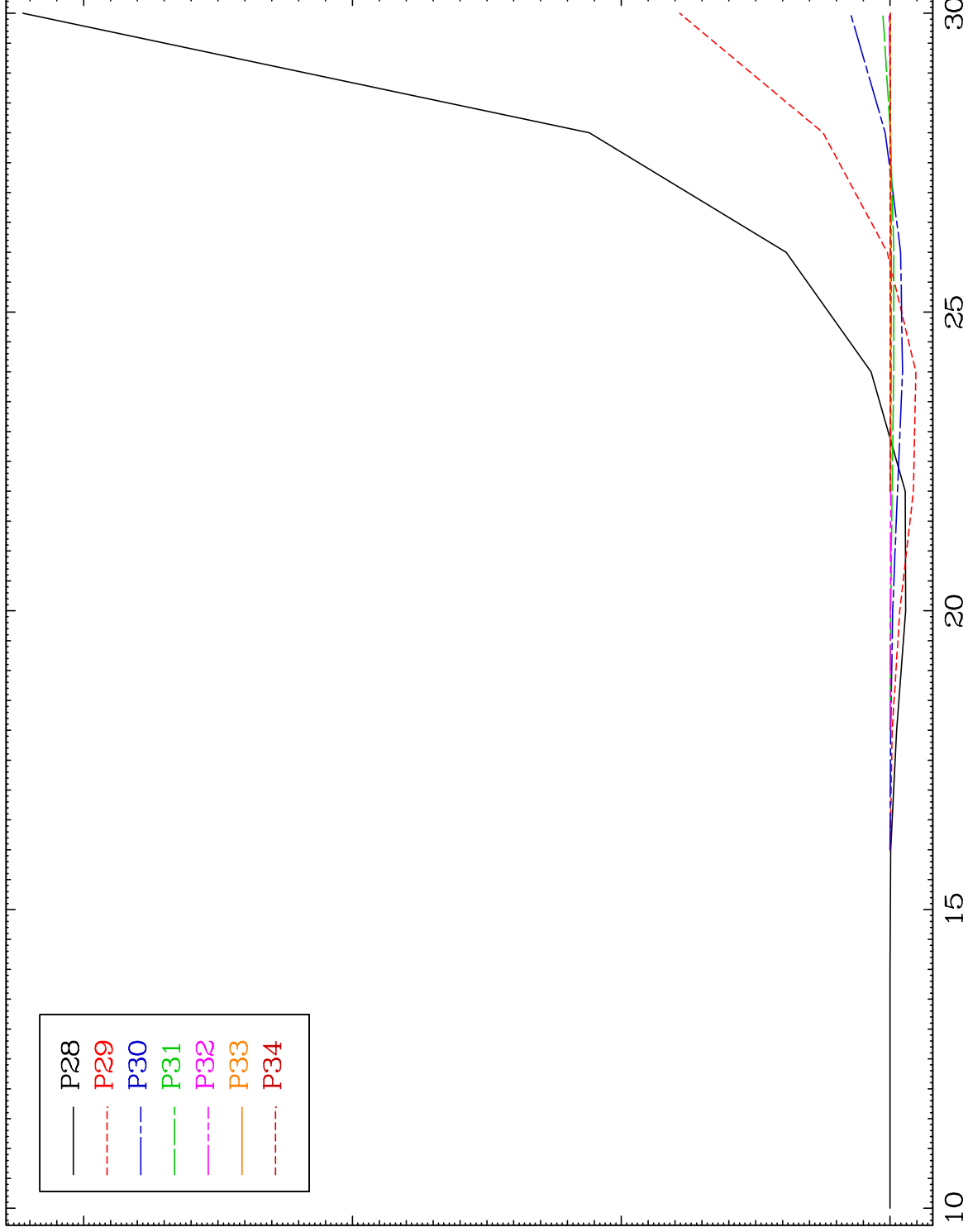
25

30

19

Incident Energy (MeV)

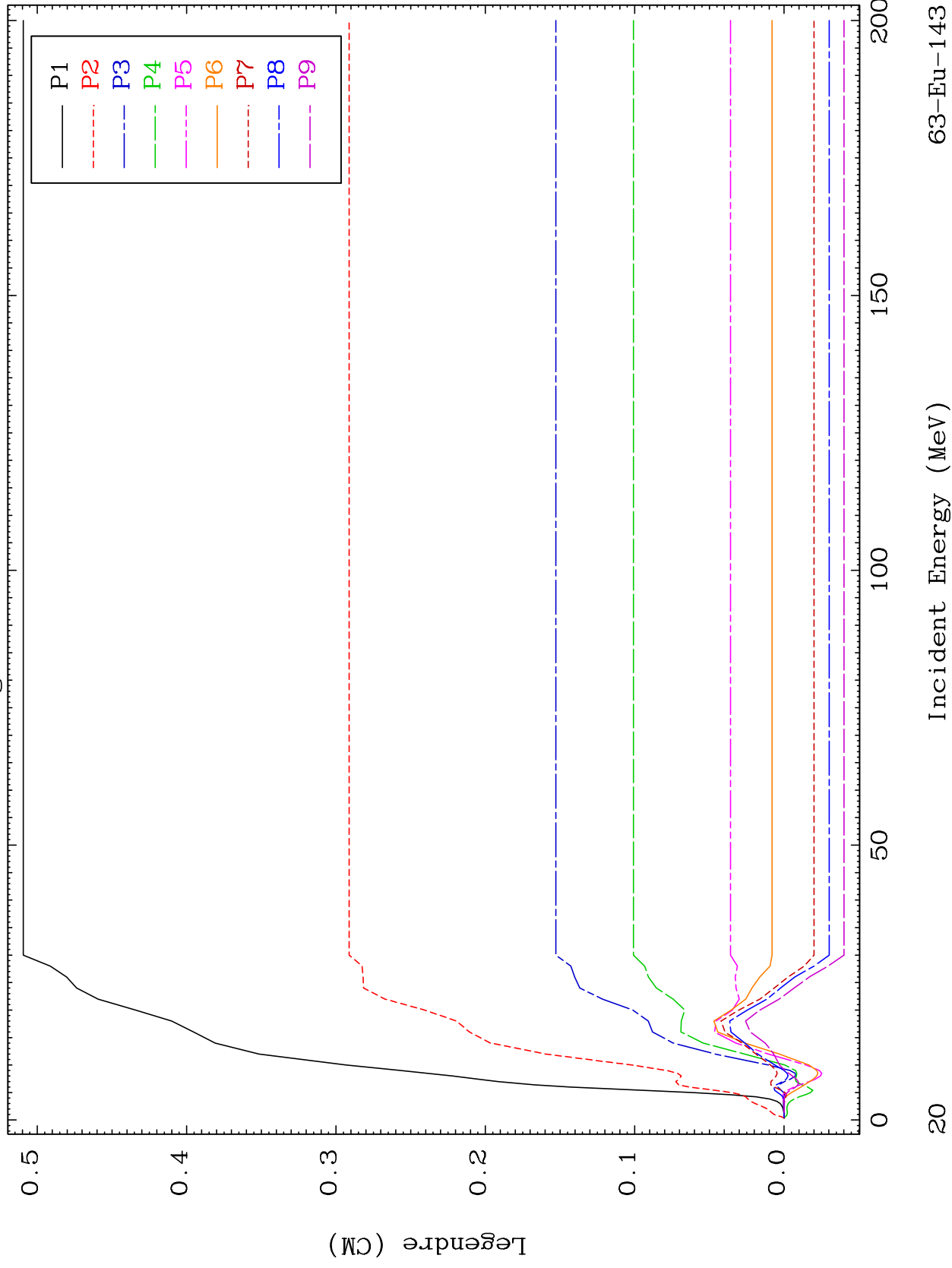
63-Eu-143



MAT 6301

258.8 keV (n, n') Level
Legendre Coefficients

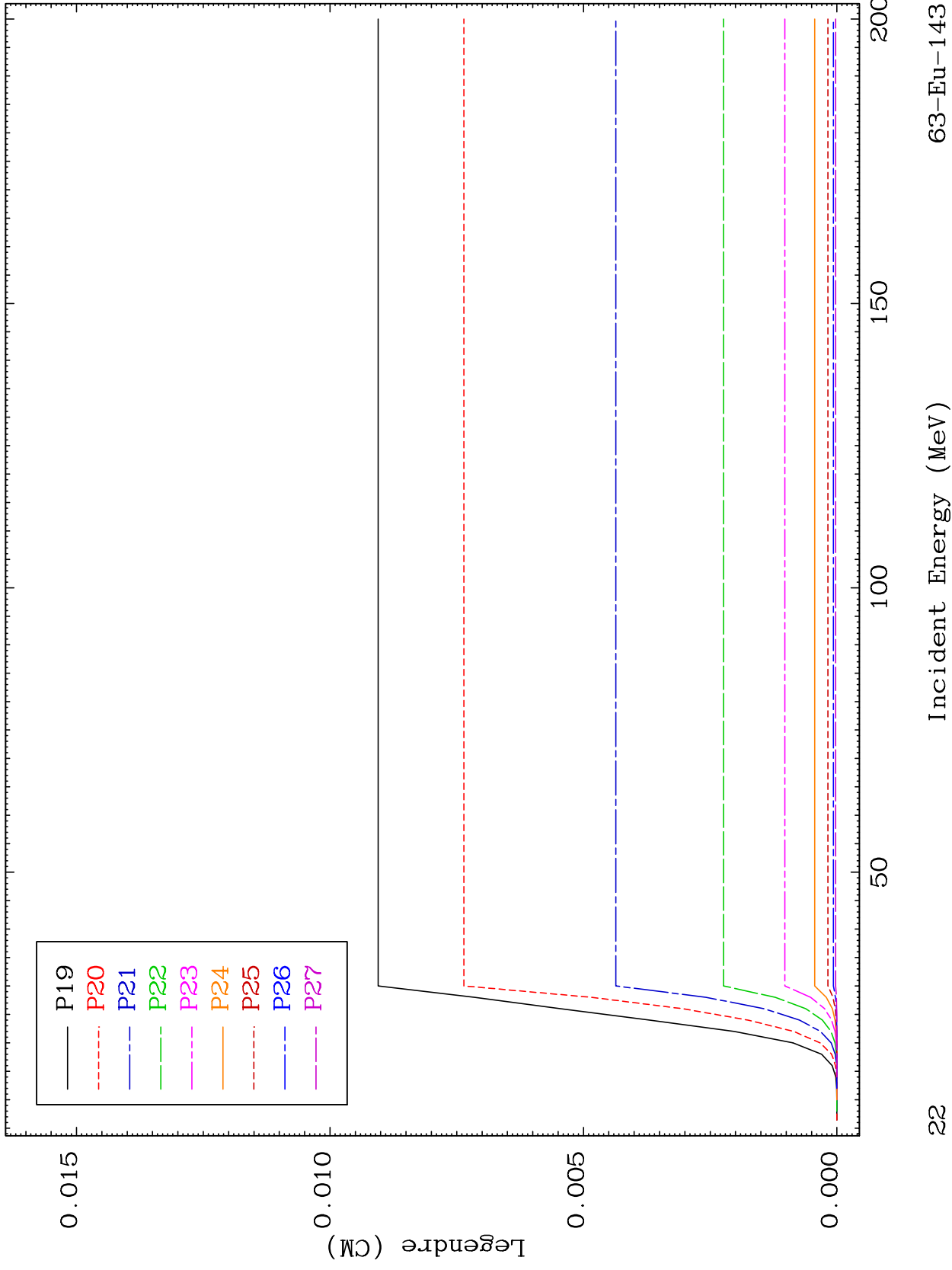
63-Eu-143



MAT 6301

258.8 keV (n,n') Level
Legendre Coefficients

63-Eu-143



22

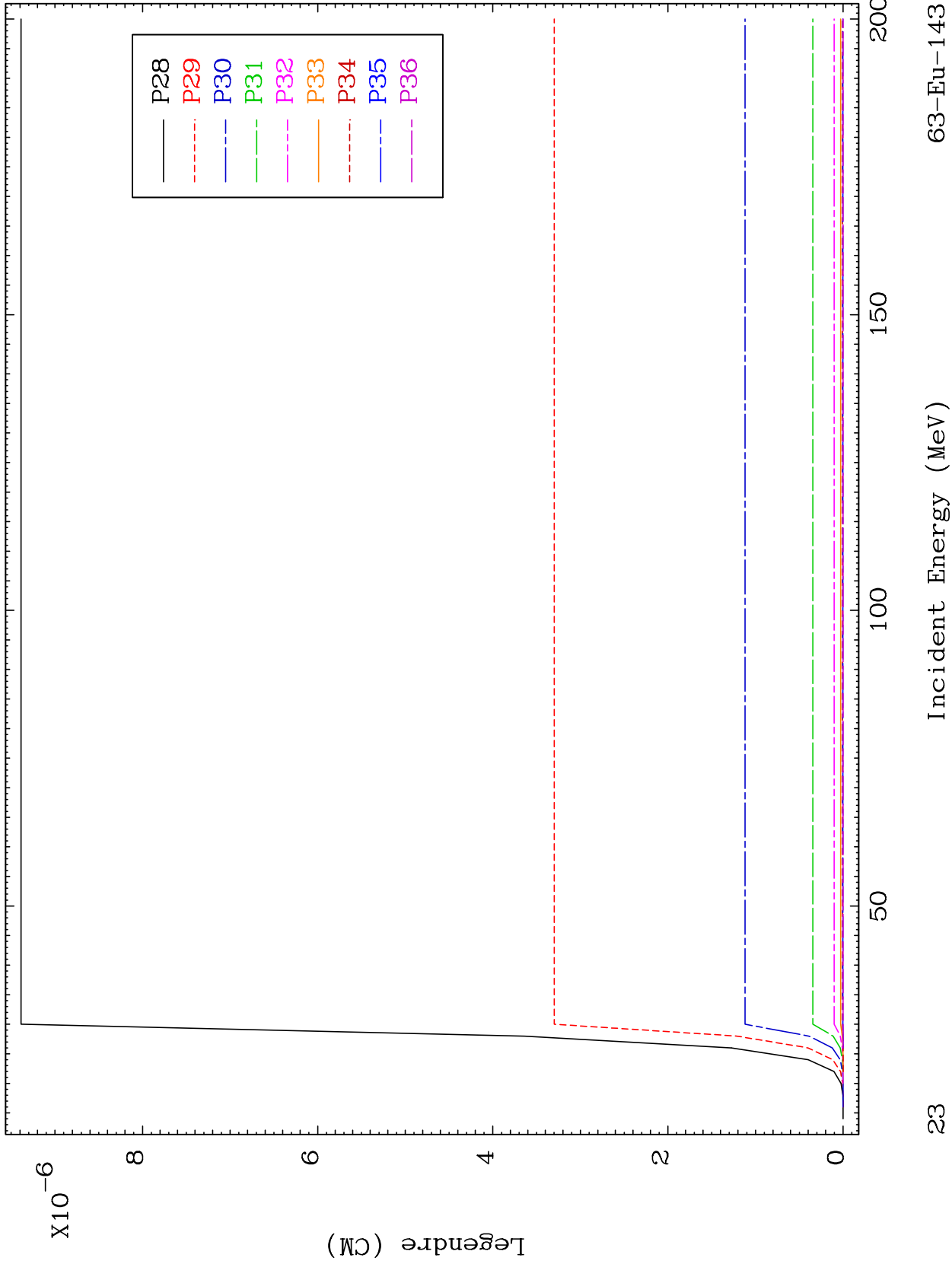
Incident Energy (MeV)

63-Eu-143

MAT 6301

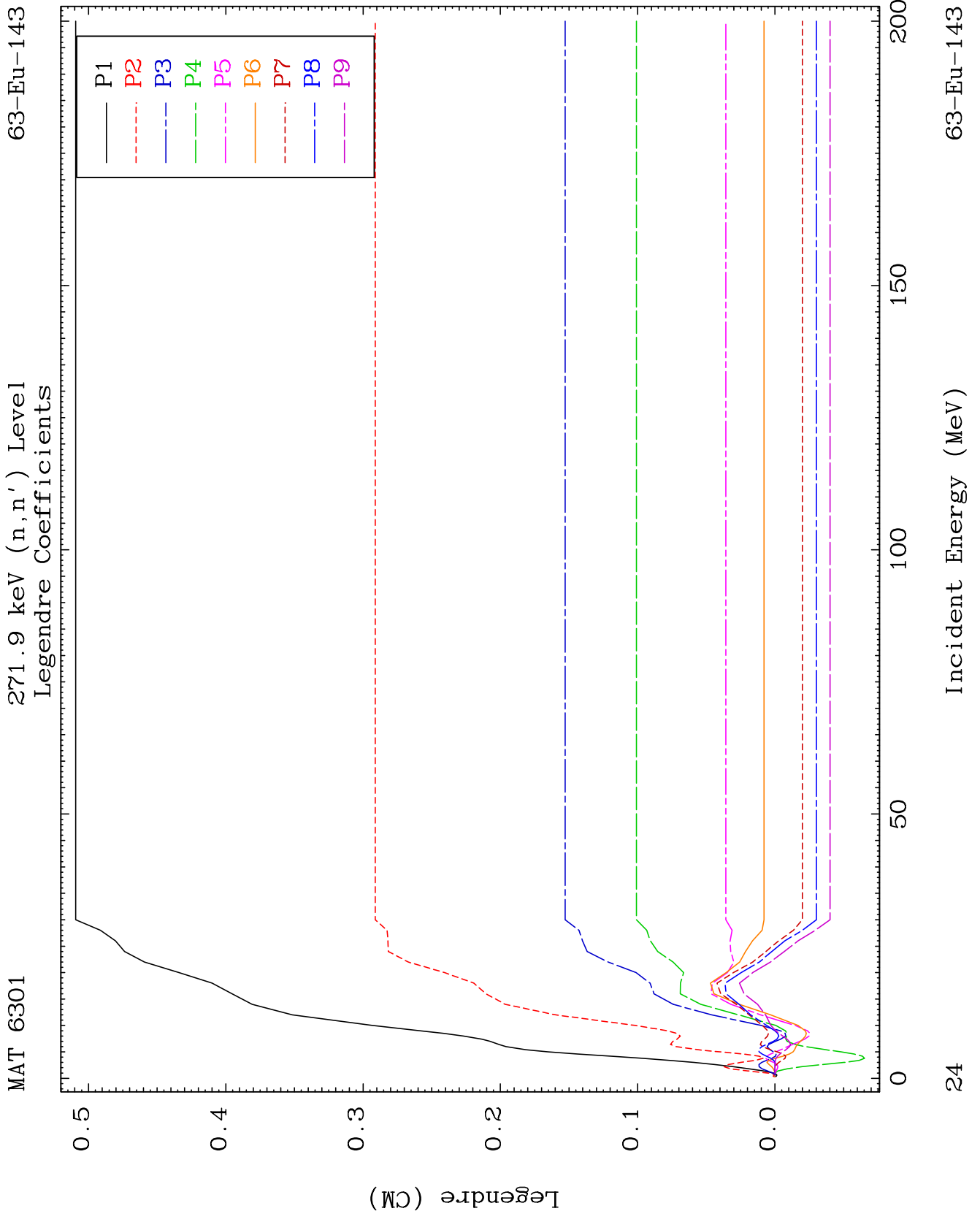
258.8 keV (n,n') Level
Legendre Coefficients

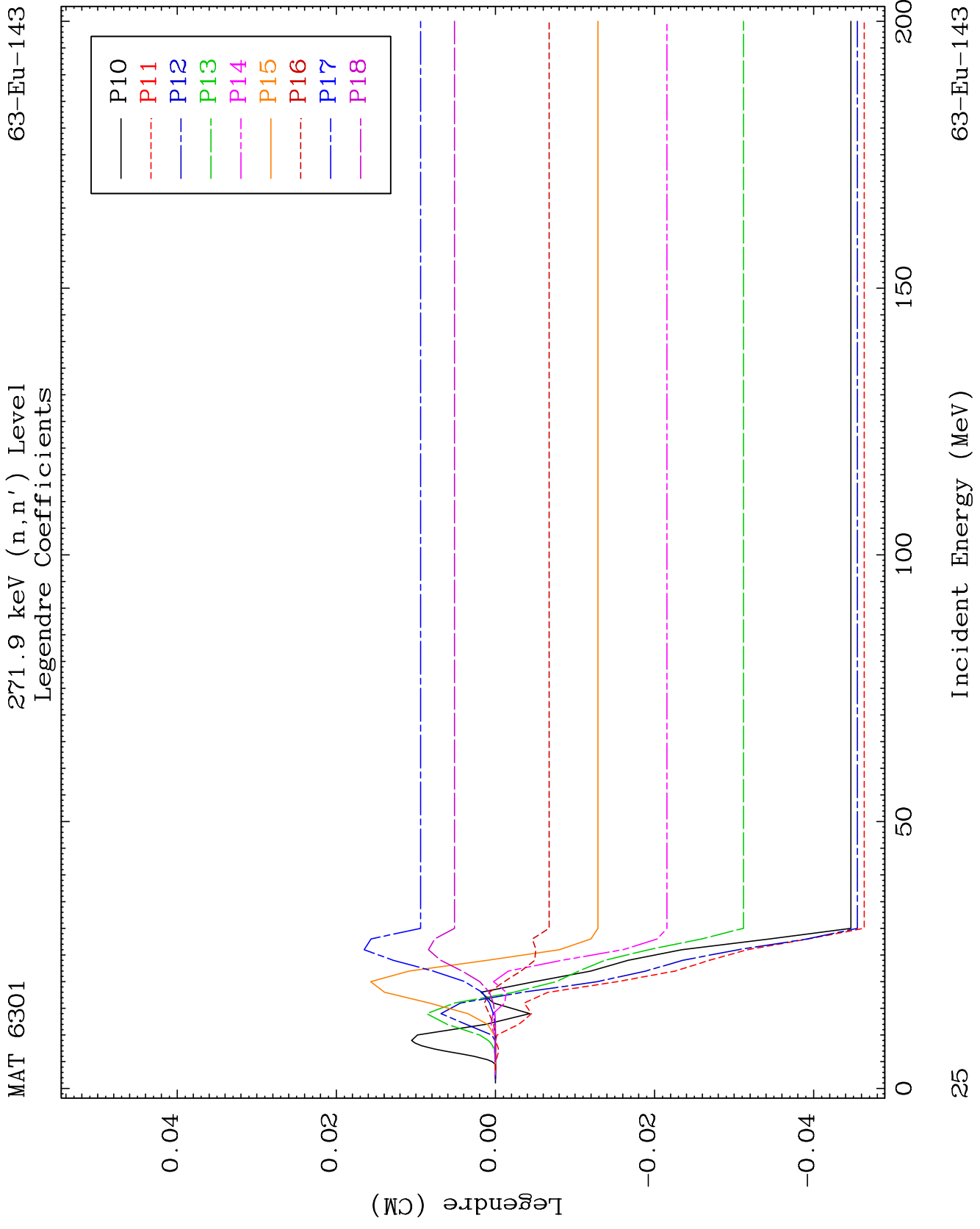
63-Eu-143

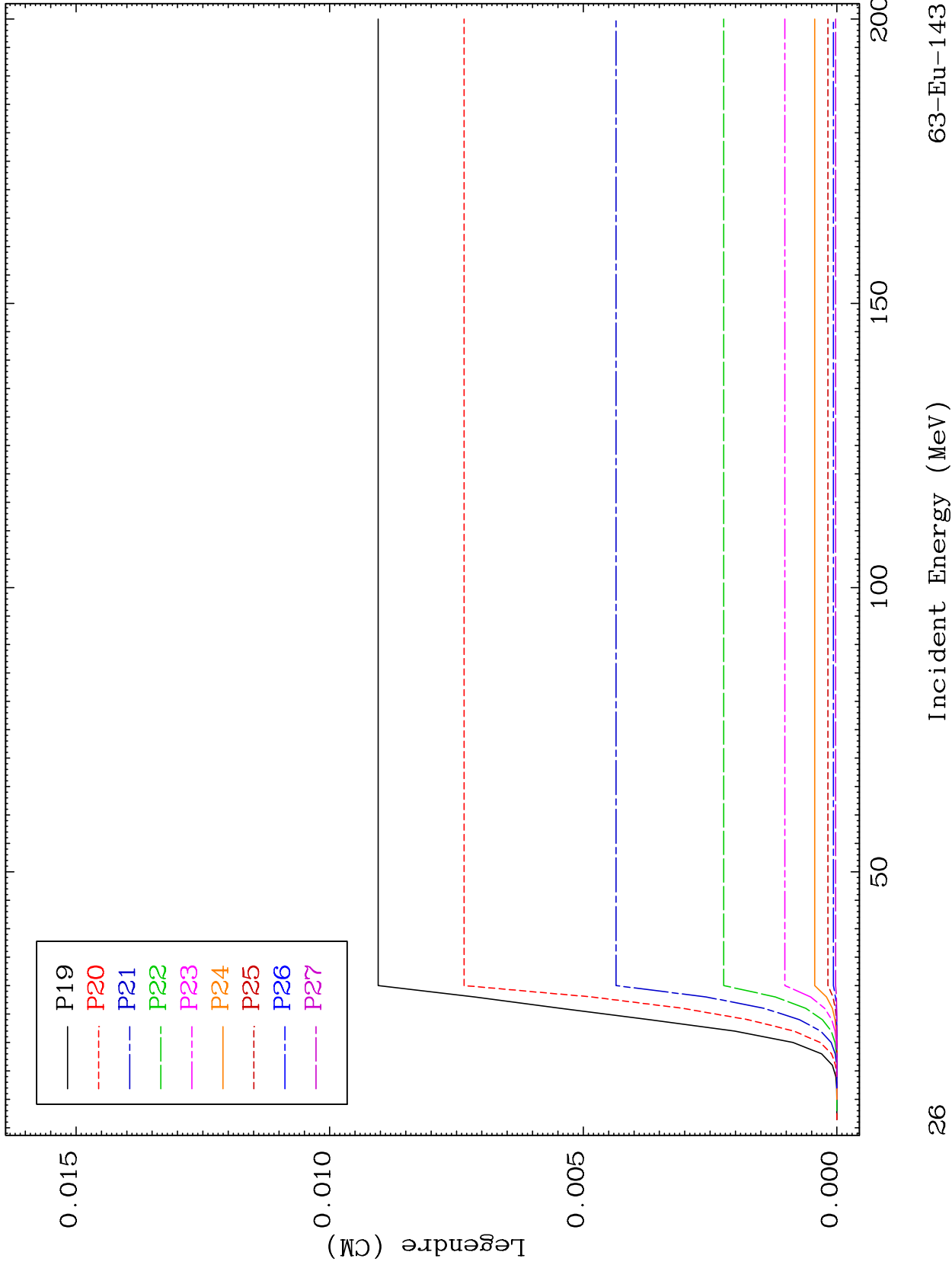


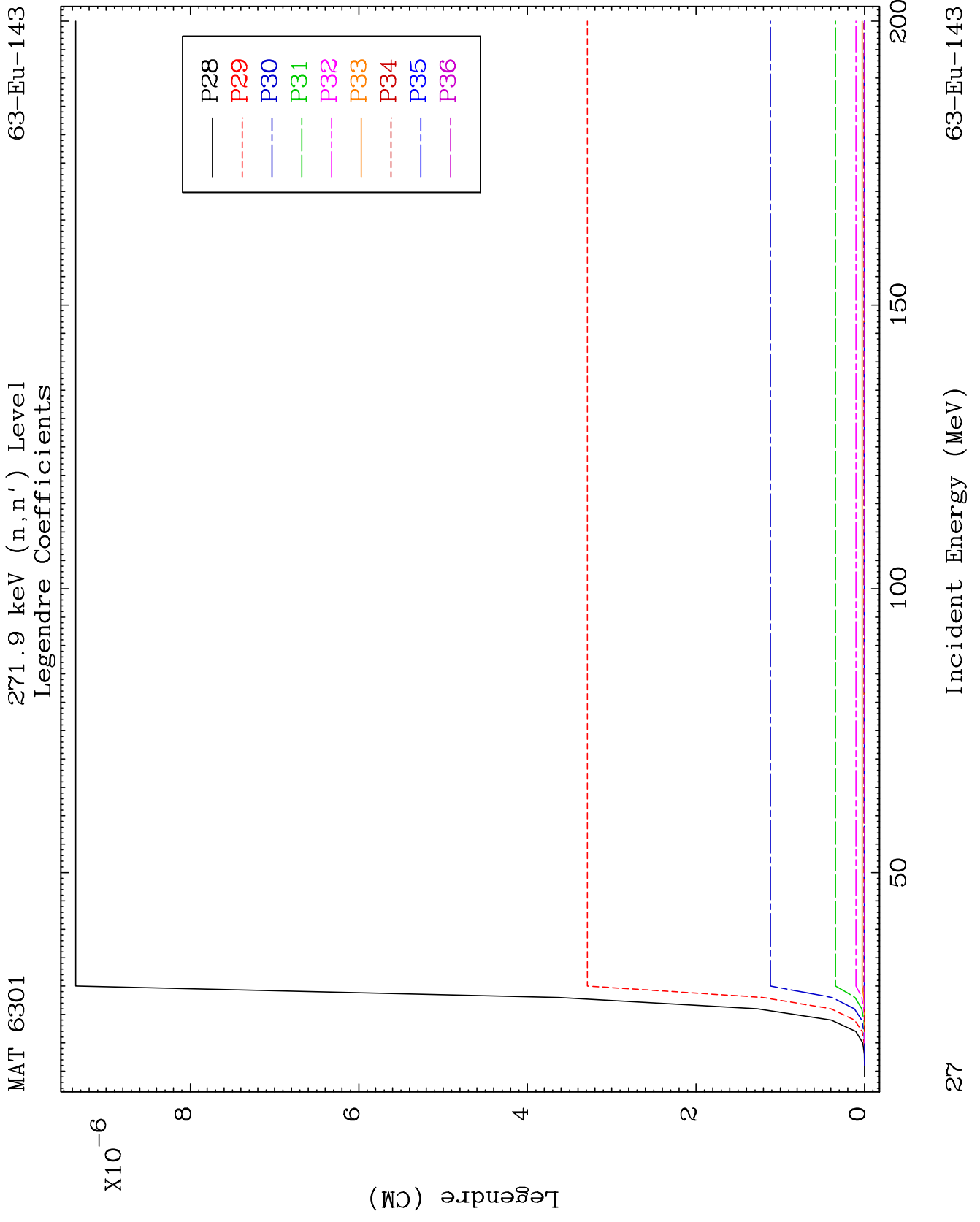
23

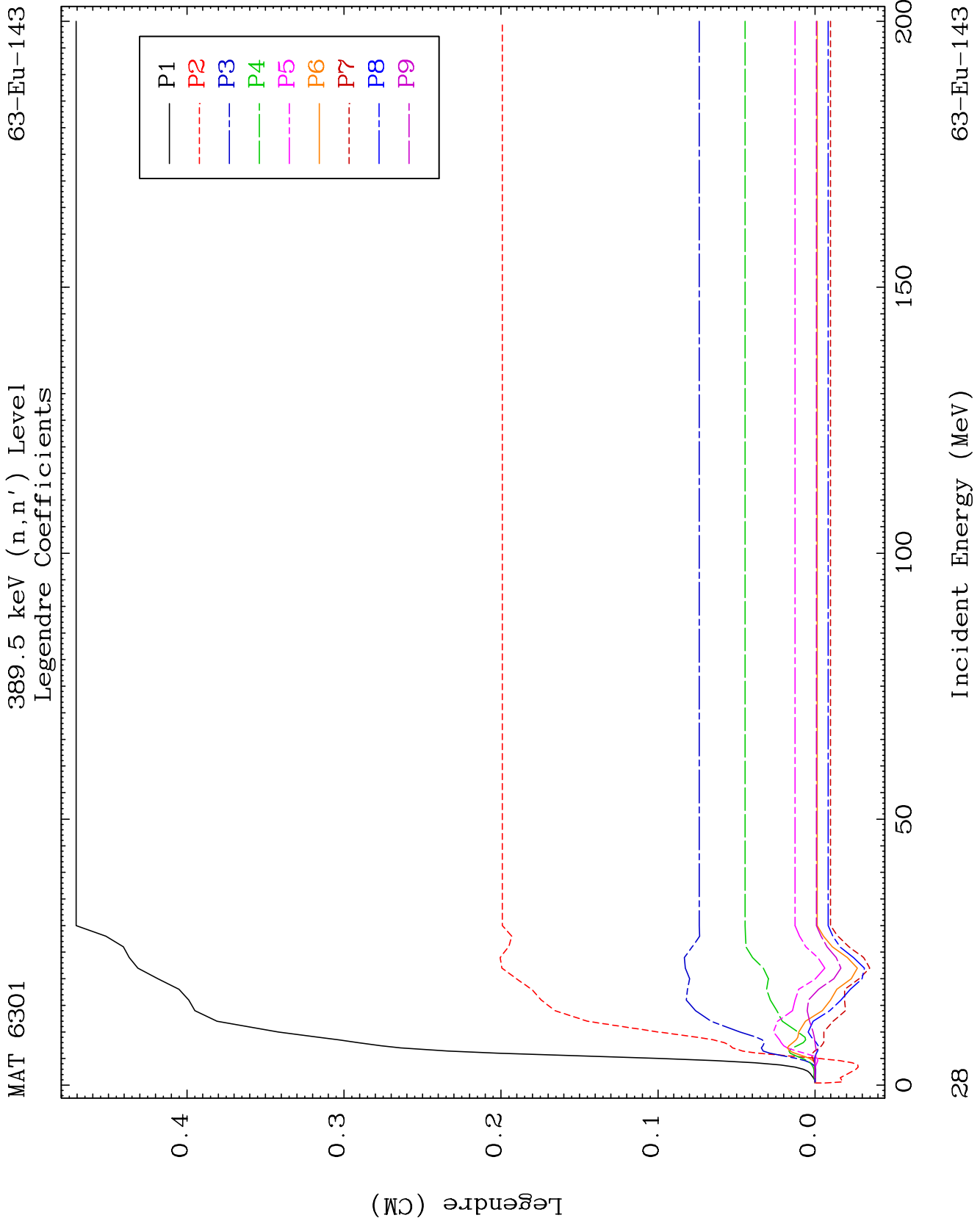
63-Eu-143







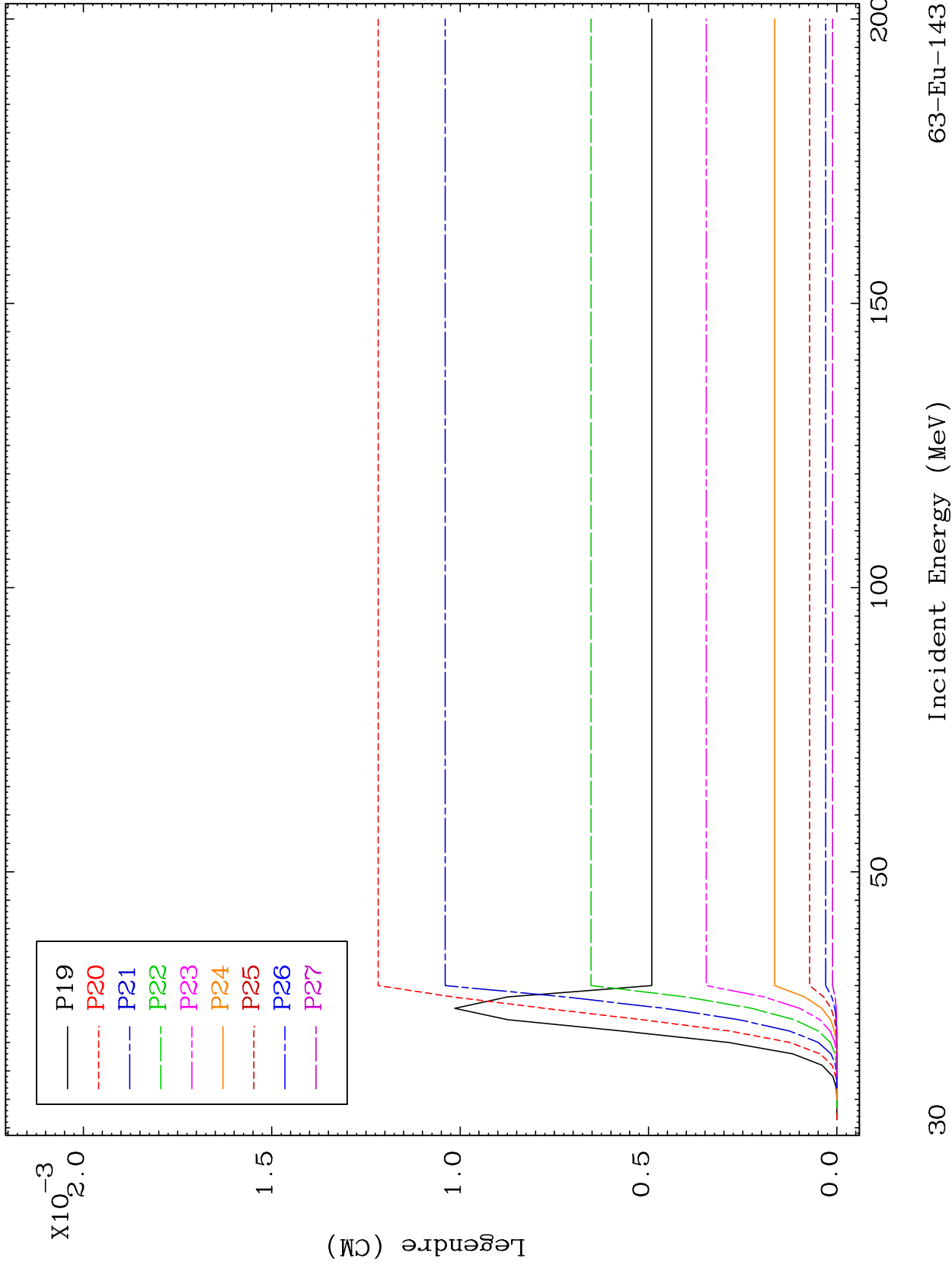




MAT 6301

389.5 keV (n, n') Level
Legendre Coefficients

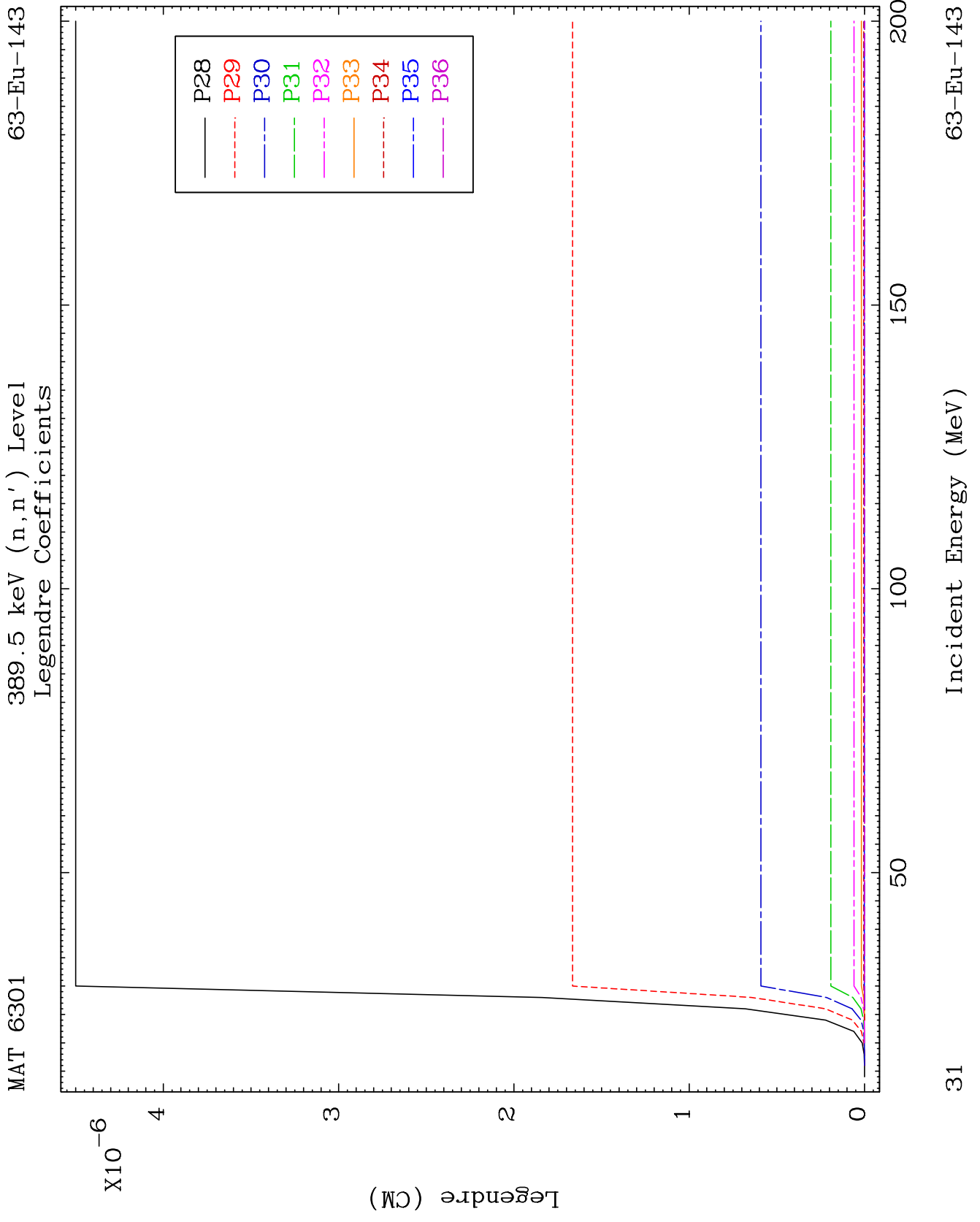
63-Eu-143



30

Incident Energy (MeV)

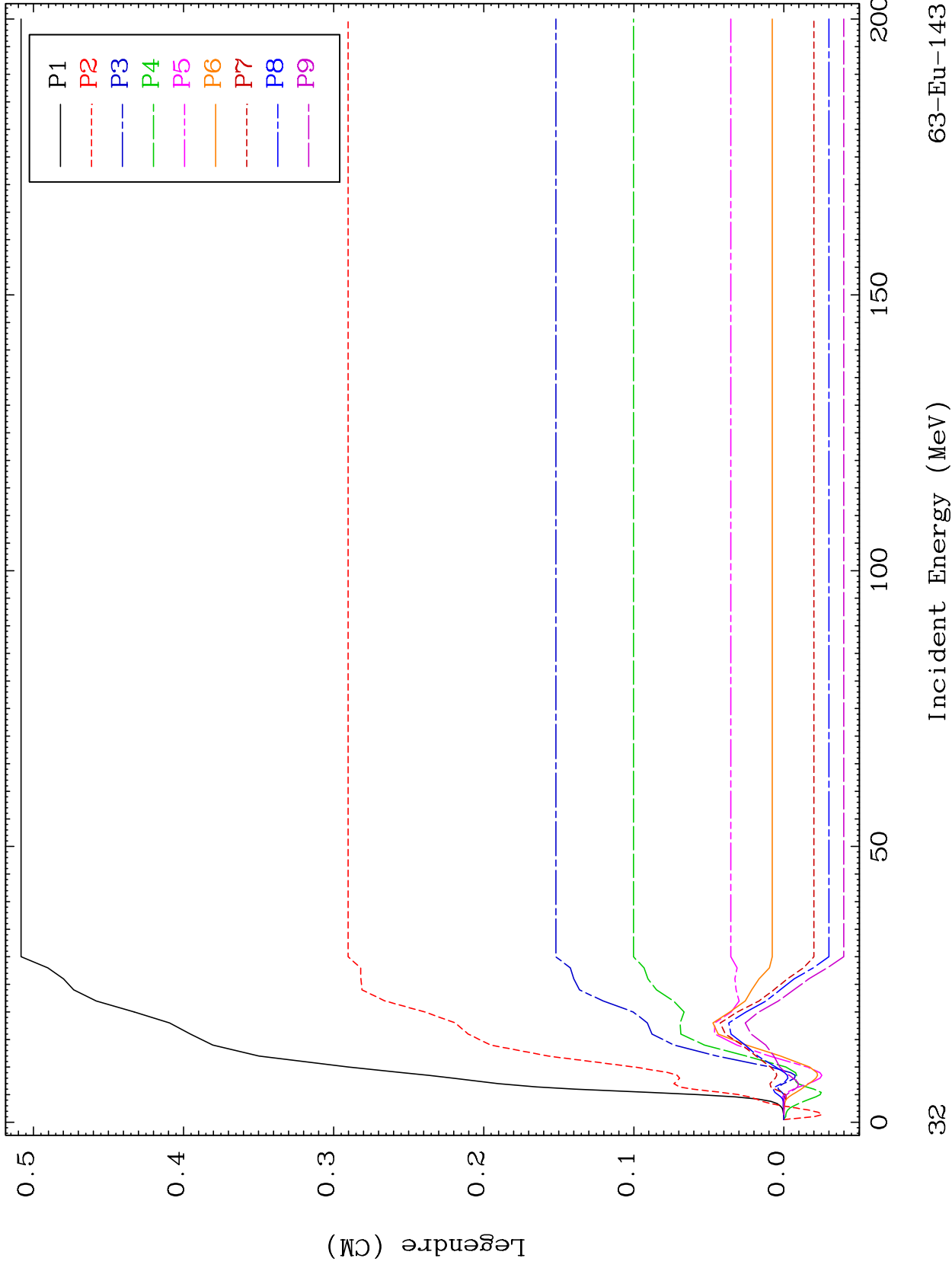
63-Eu-143



MAT 6301

463.6 keV (n,n') Level
Legendre Coefficients

63-Eu-143

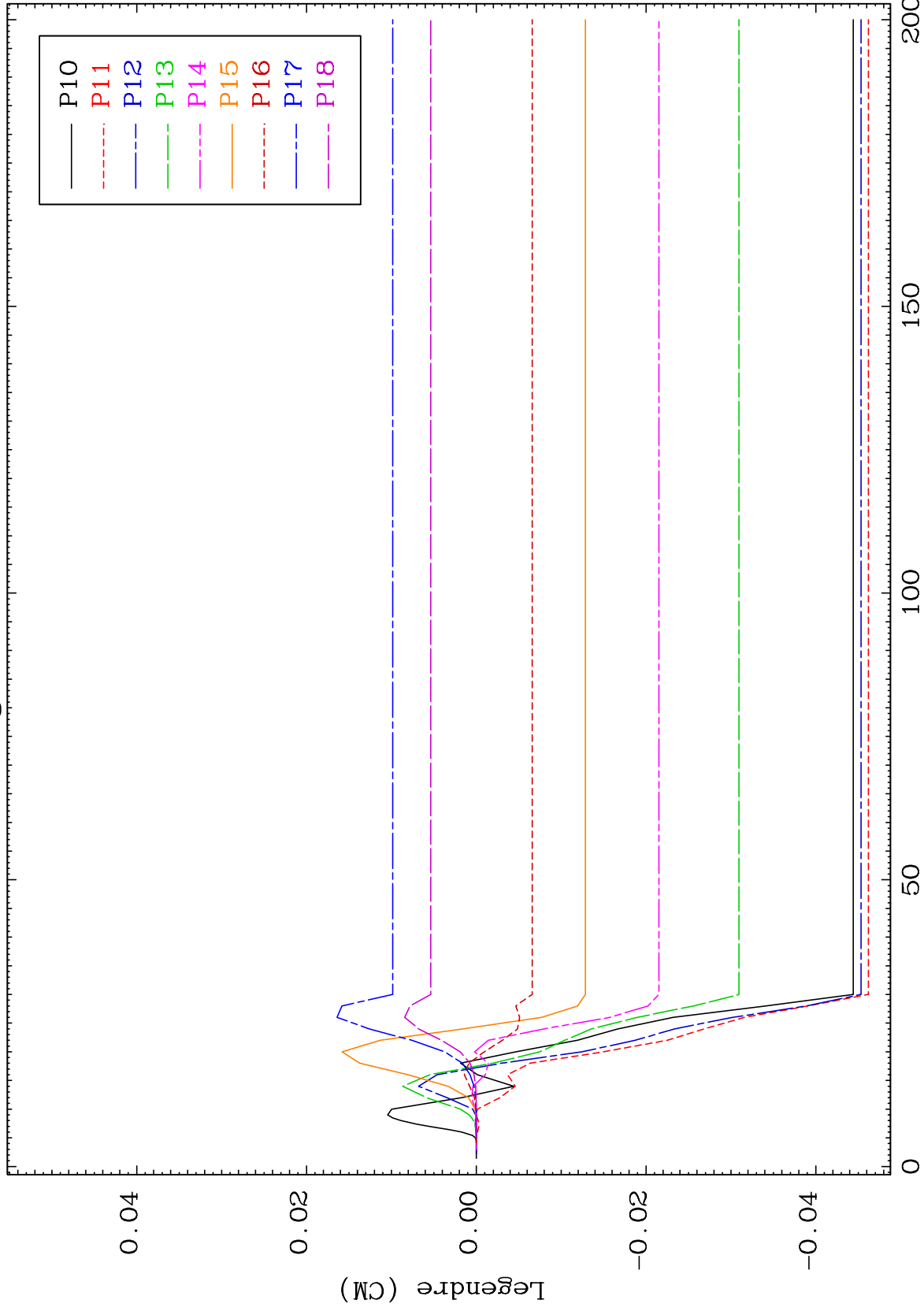


32

MAT 6301

463.6 keV (n,n') Level
Legendre Coefficients

63-Eu-143



33

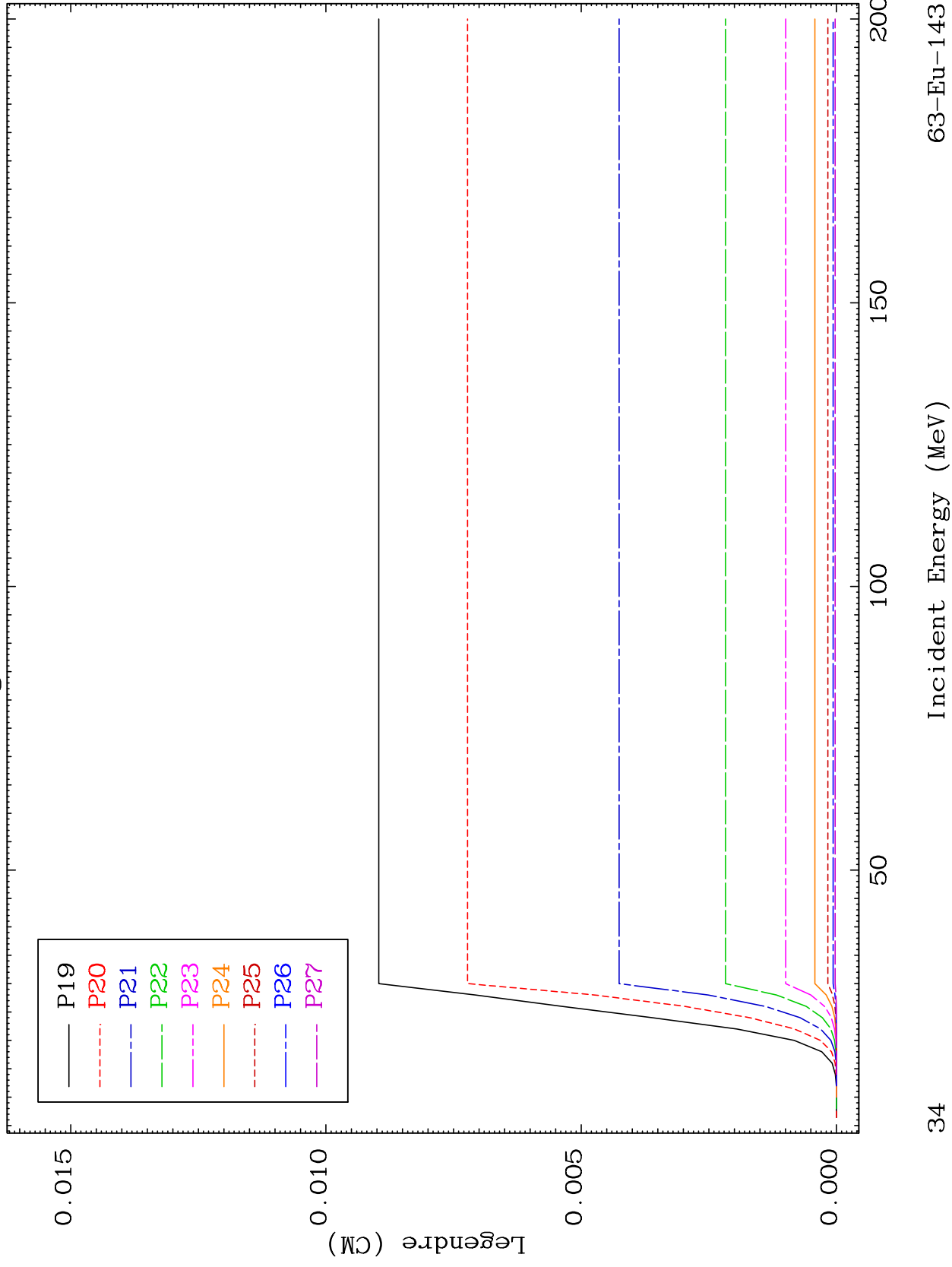
Incident Energy (MeV)

63-Eu-143

MAT 6301

463.6 keV (n,n') Level
Legendre Coefficients

63-Eu-143



34

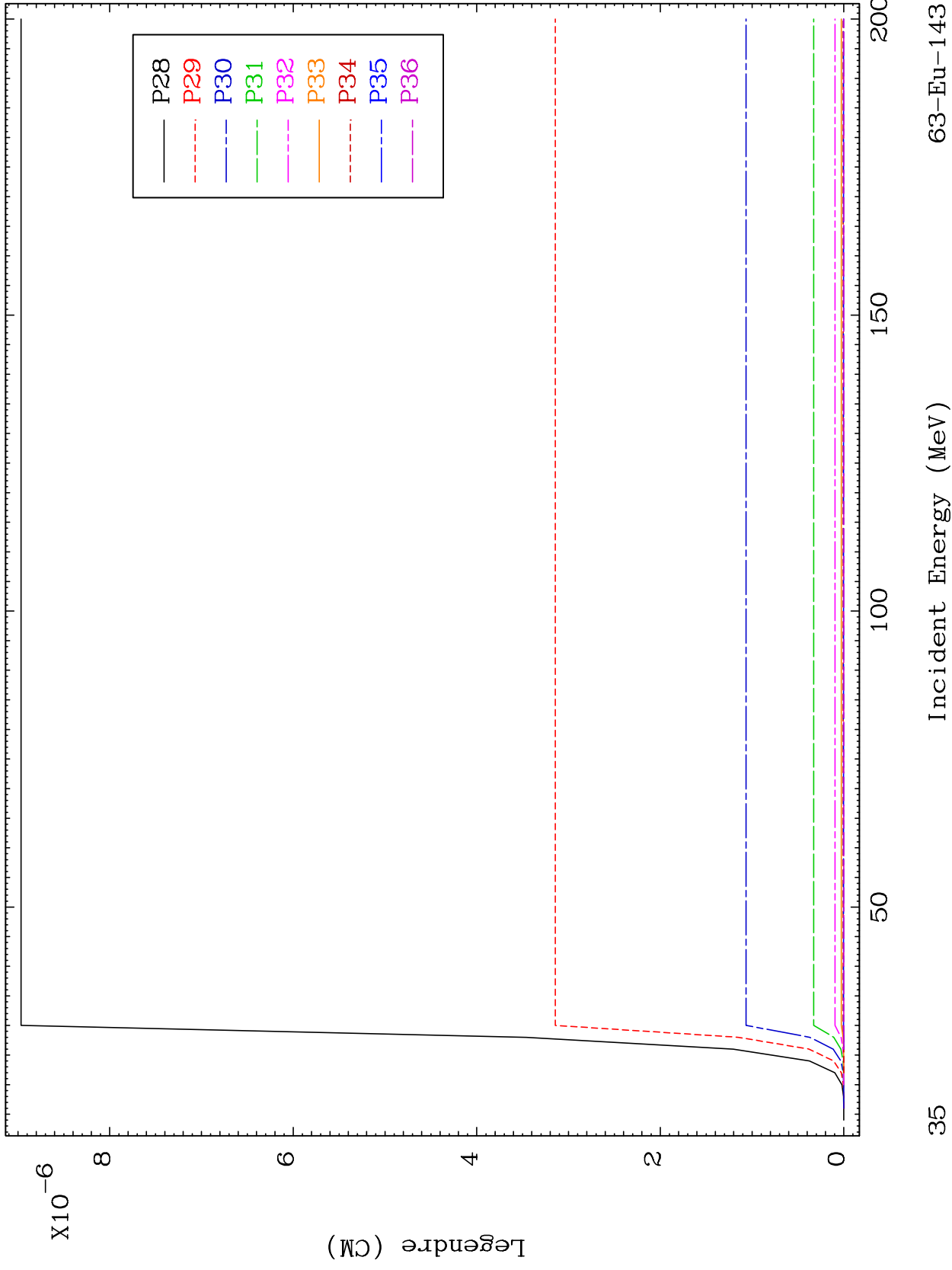
Incident Energy (MeV)

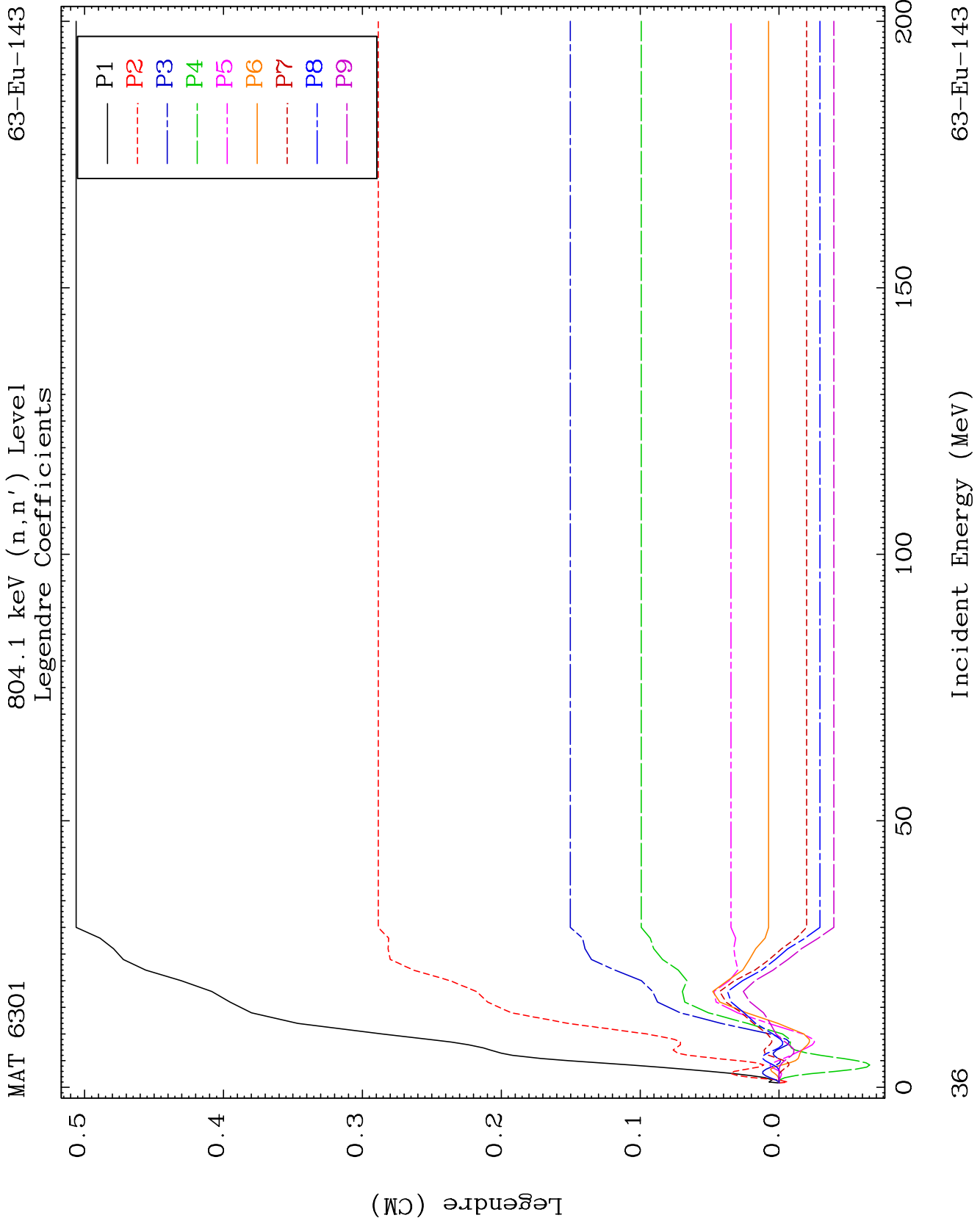
63-Eu-143

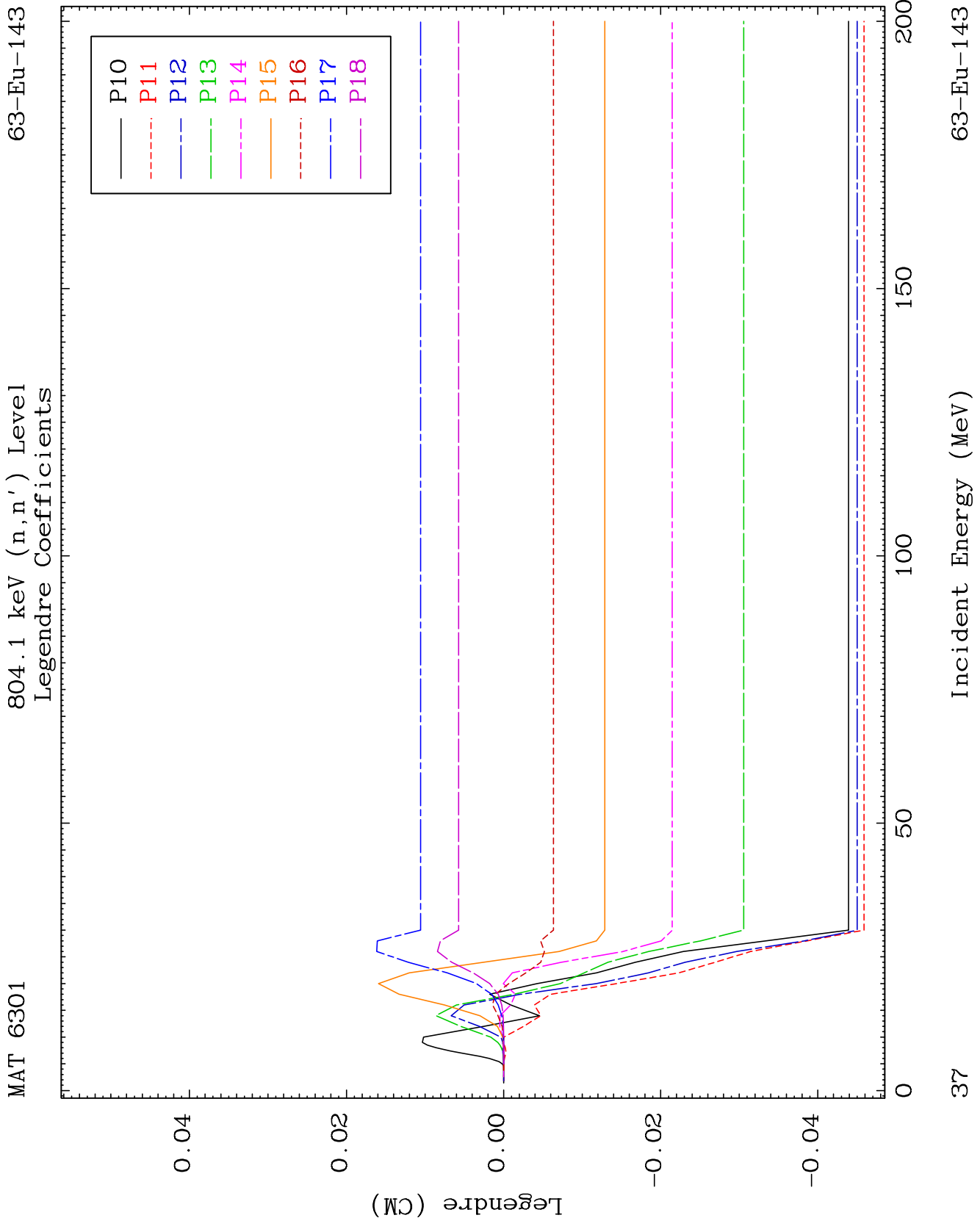
MAT 6301

463.6 keV (n,n') Level
Legendre Coefficients

63-Eu-143



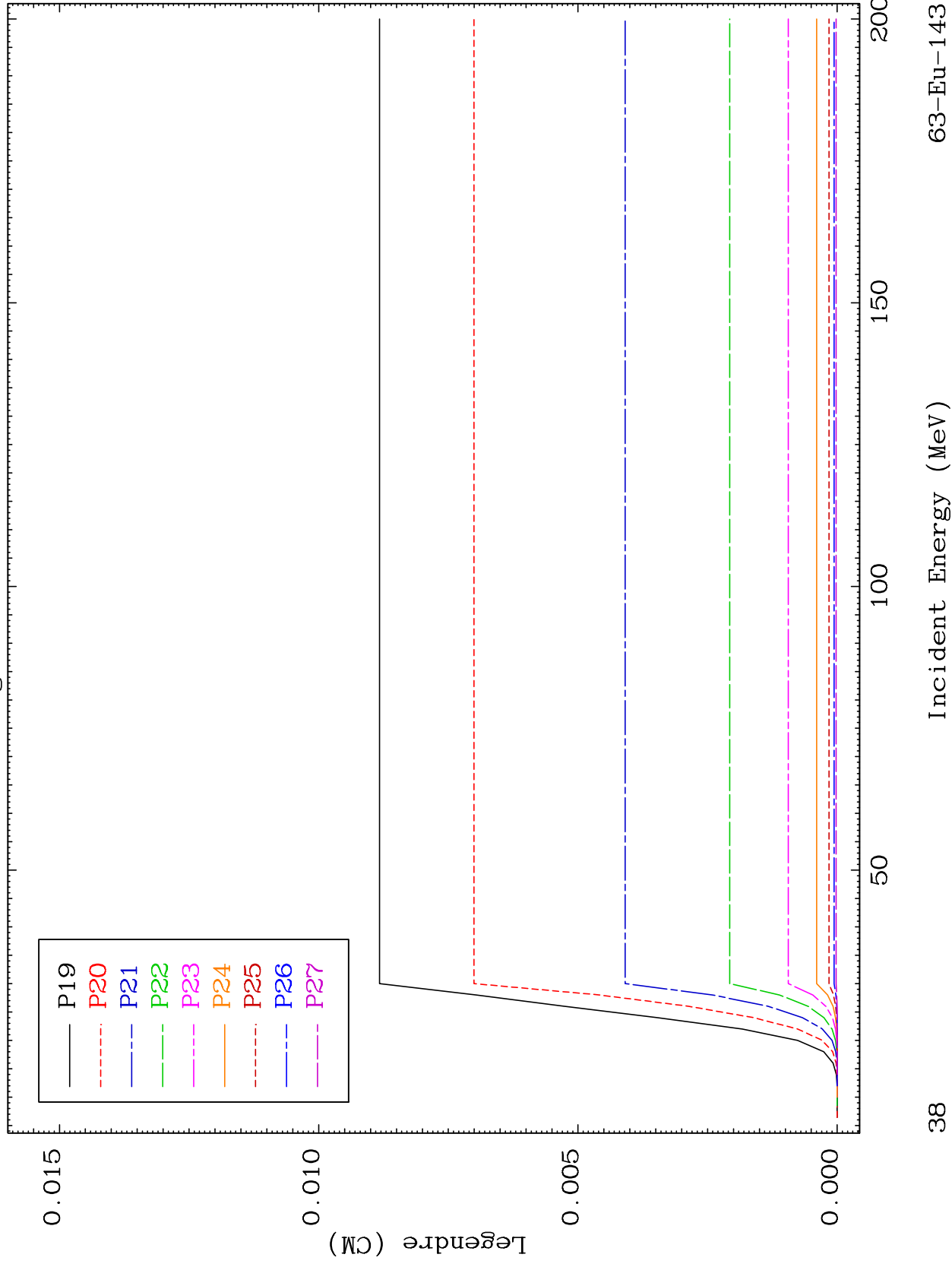




MAT 6301

804.1 keV (n,n') Level
Legendre Coefficients

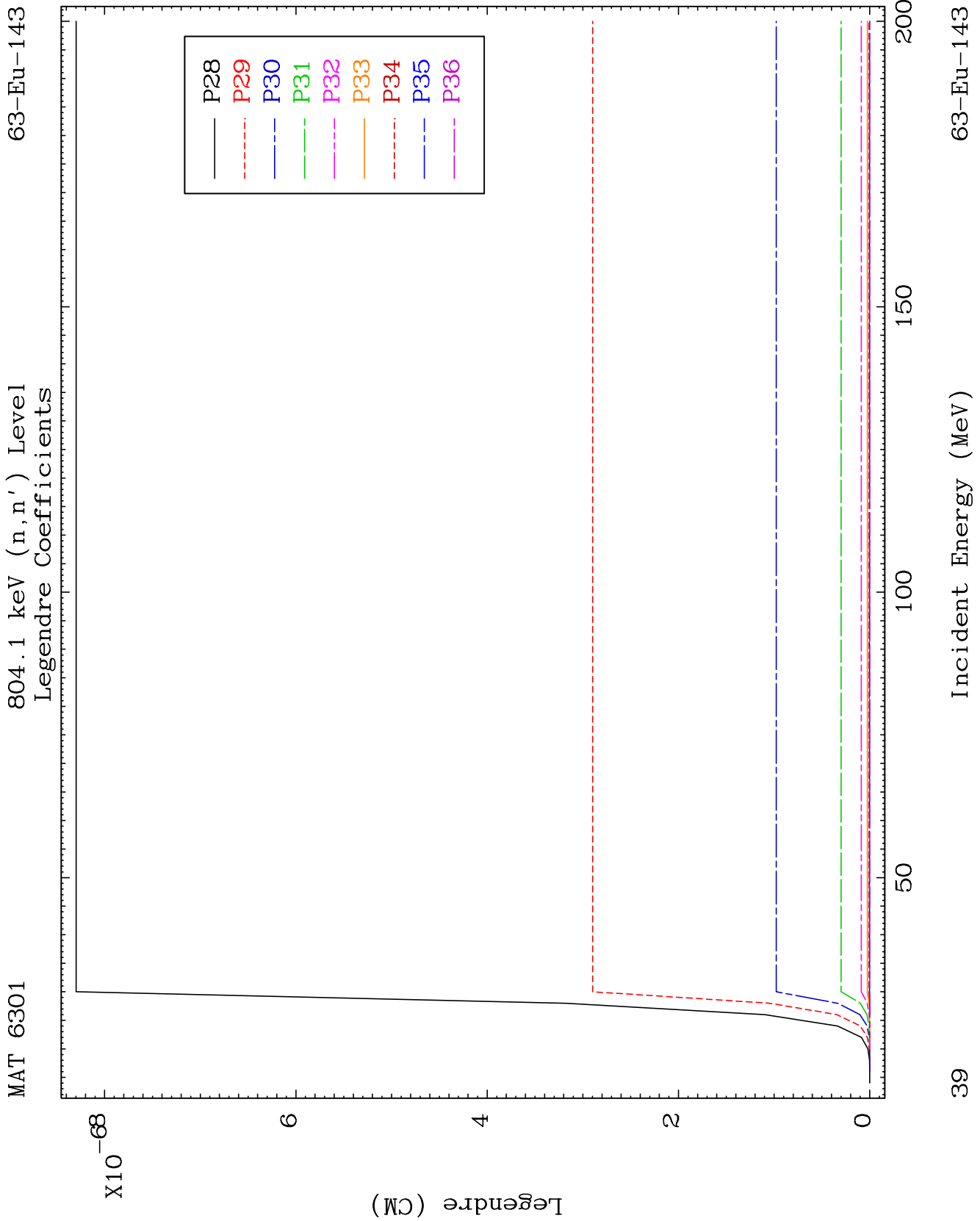
63-Eu-143

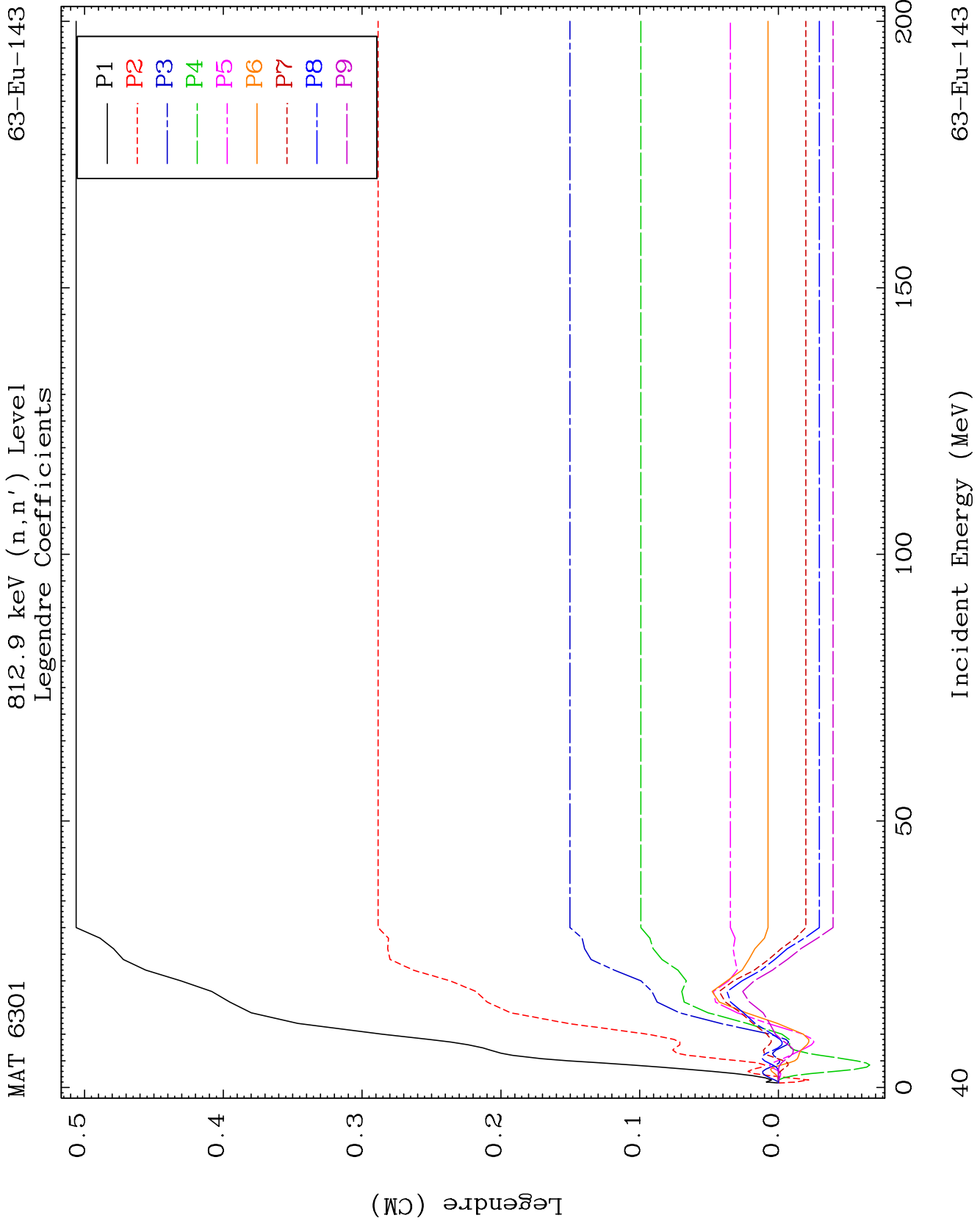


38

Incident Energy (MeV)

63-Eu-143

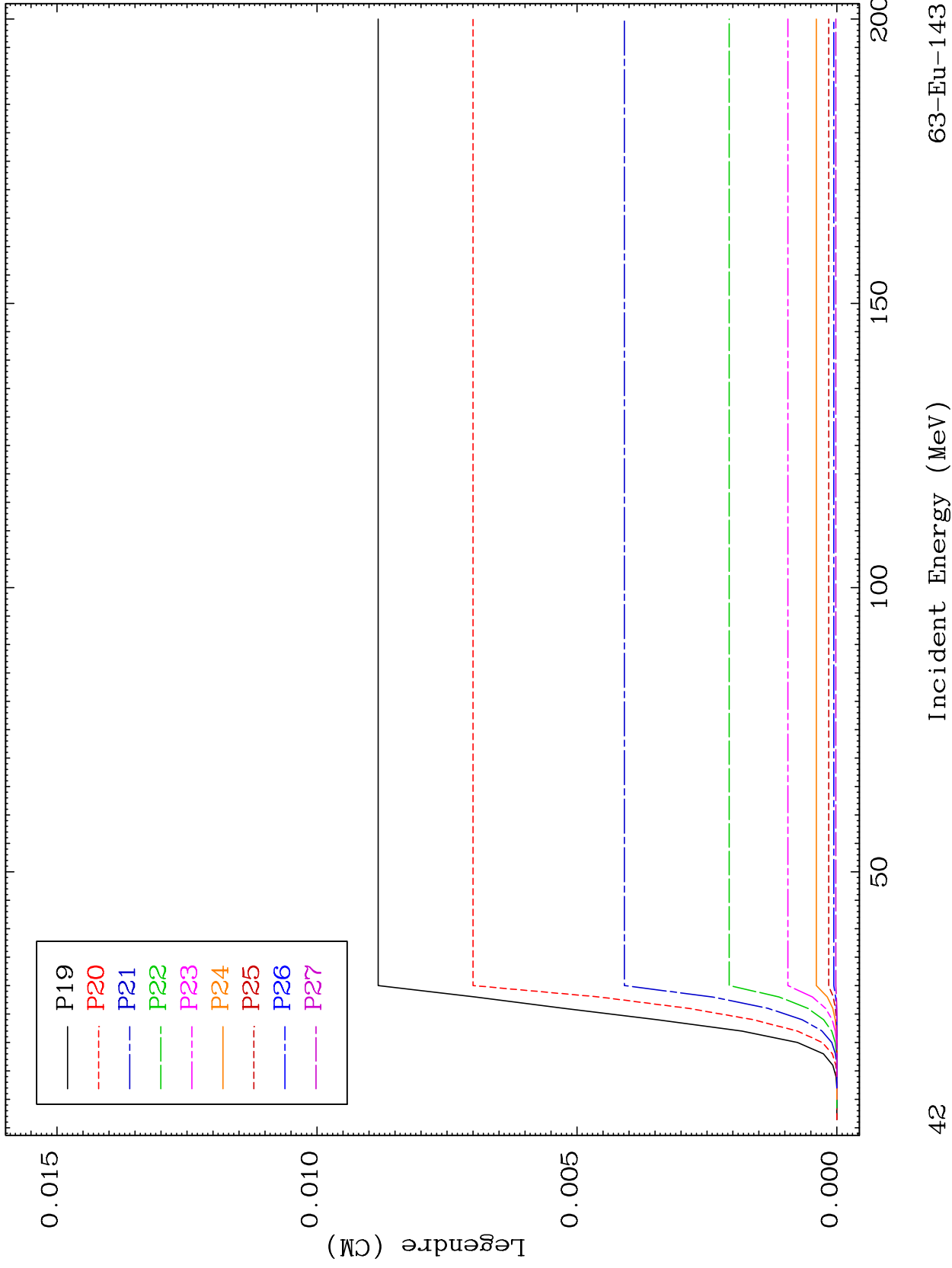




MAT 6301

812.9 keV (n, n') Level
Legendre Coefficients

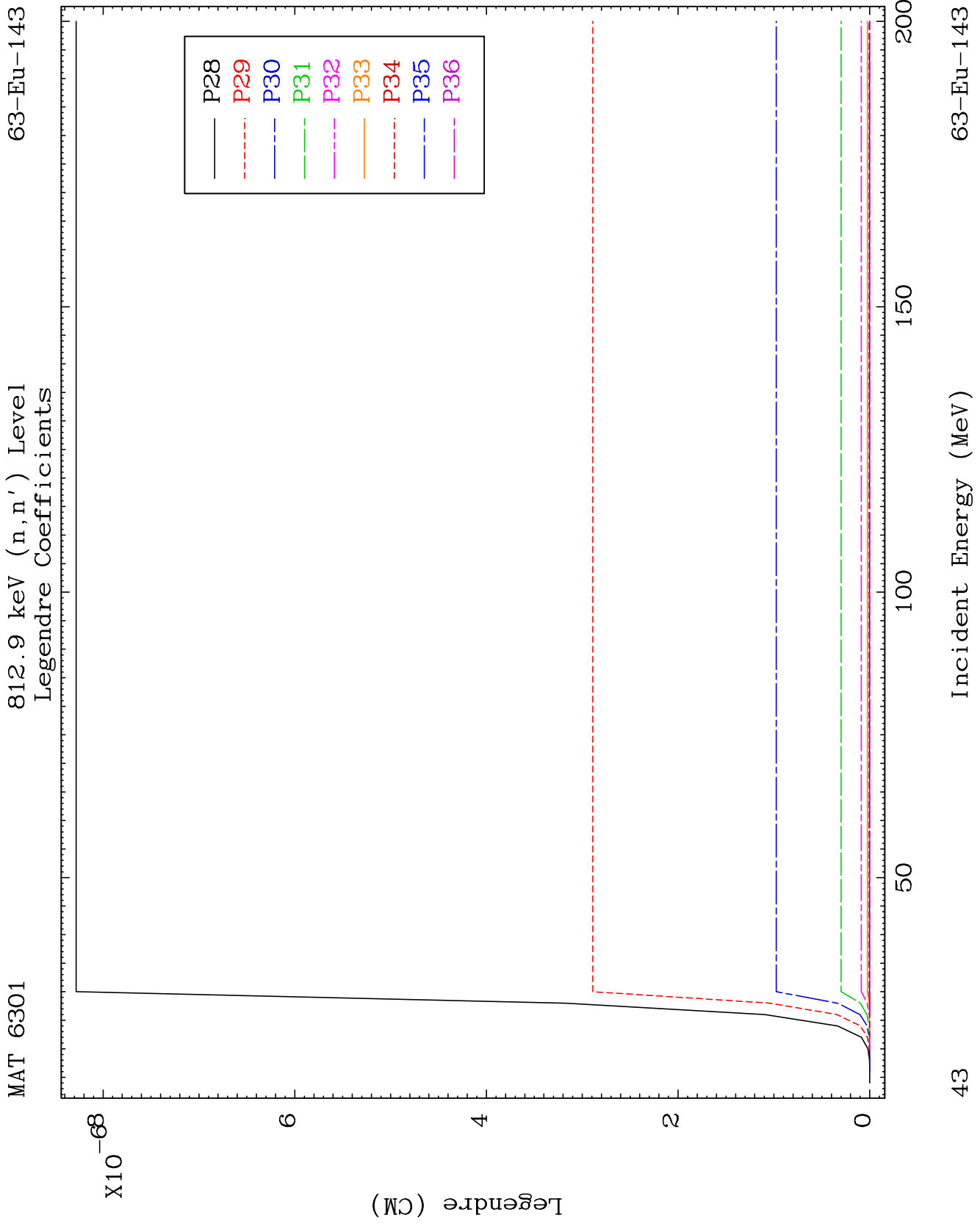
63-Eu-143



63-Eu-143

Incident Energy (MeV)

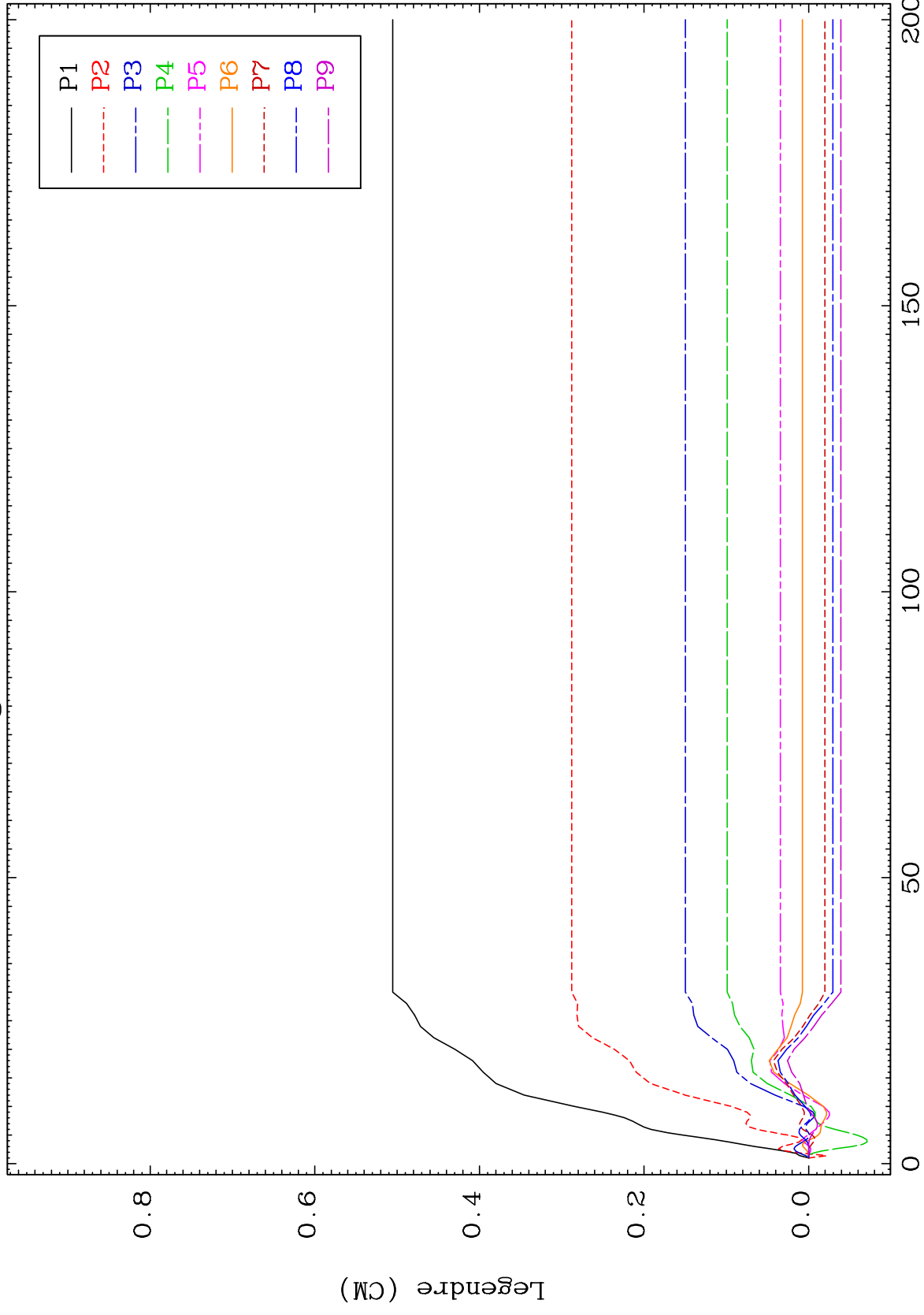
42



MAT 6301

906.9 keV (n,n') Level
Legendre Coefficients

63-Eu-143



44

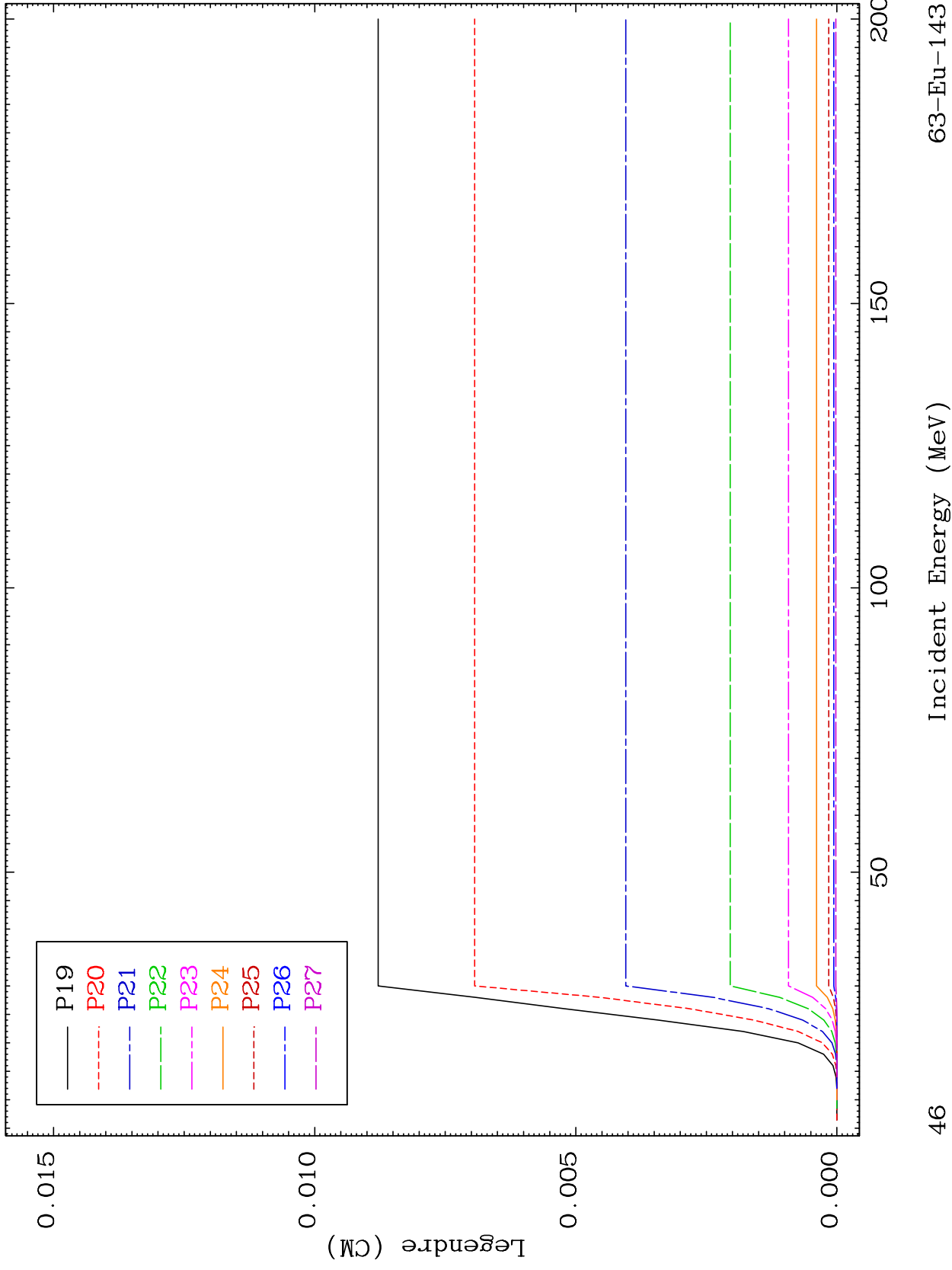
Incident Energy (MeV)

63-Eu-143

MAT 6301

906.9 keV (n, n') Level
Legendre Coefficients

63-Eu-143



46

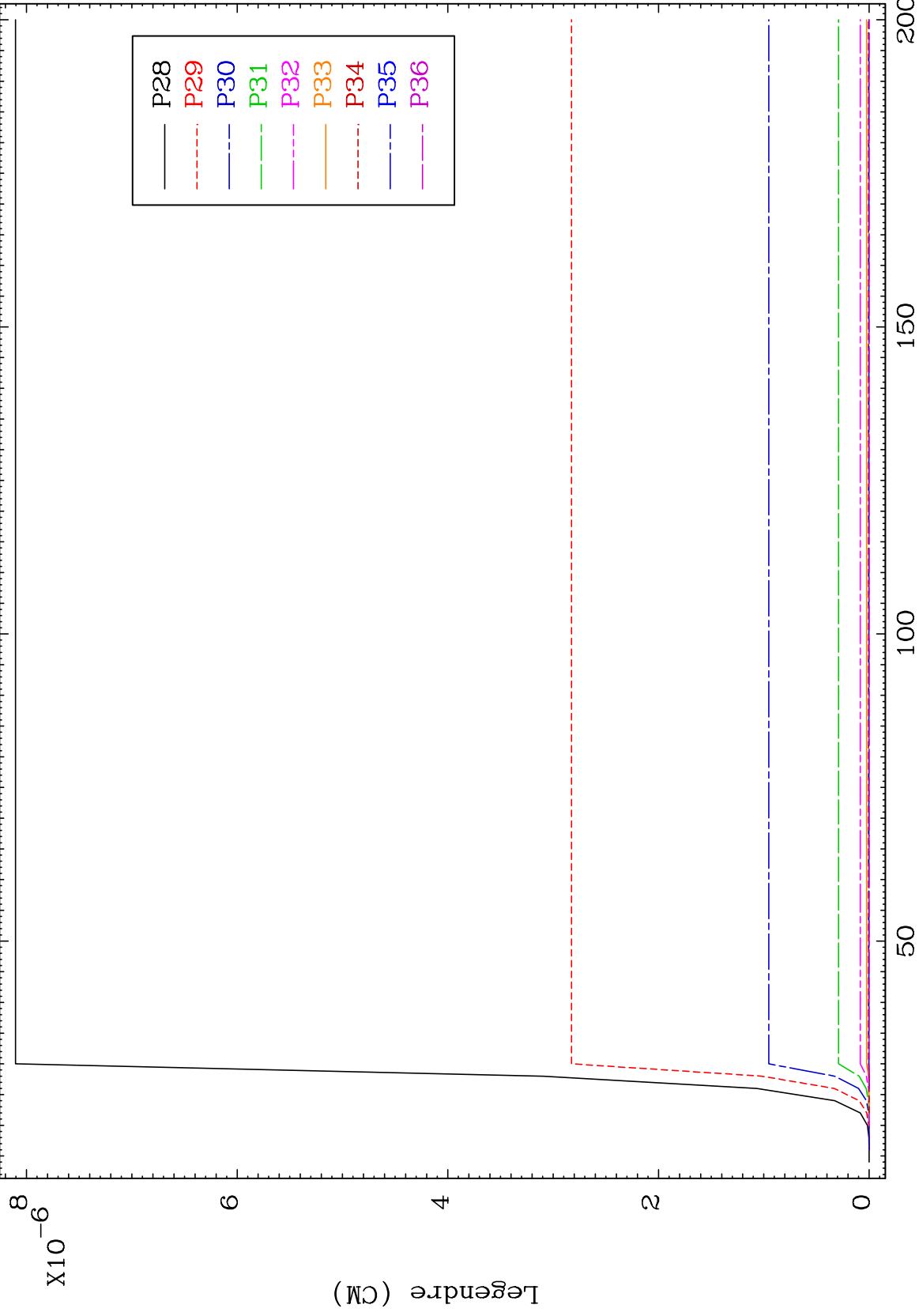
Incident Energy (MeV)

63-Eu-143

MAT 6301

906.9 keV (n,n') Level
Legendre Coefficients

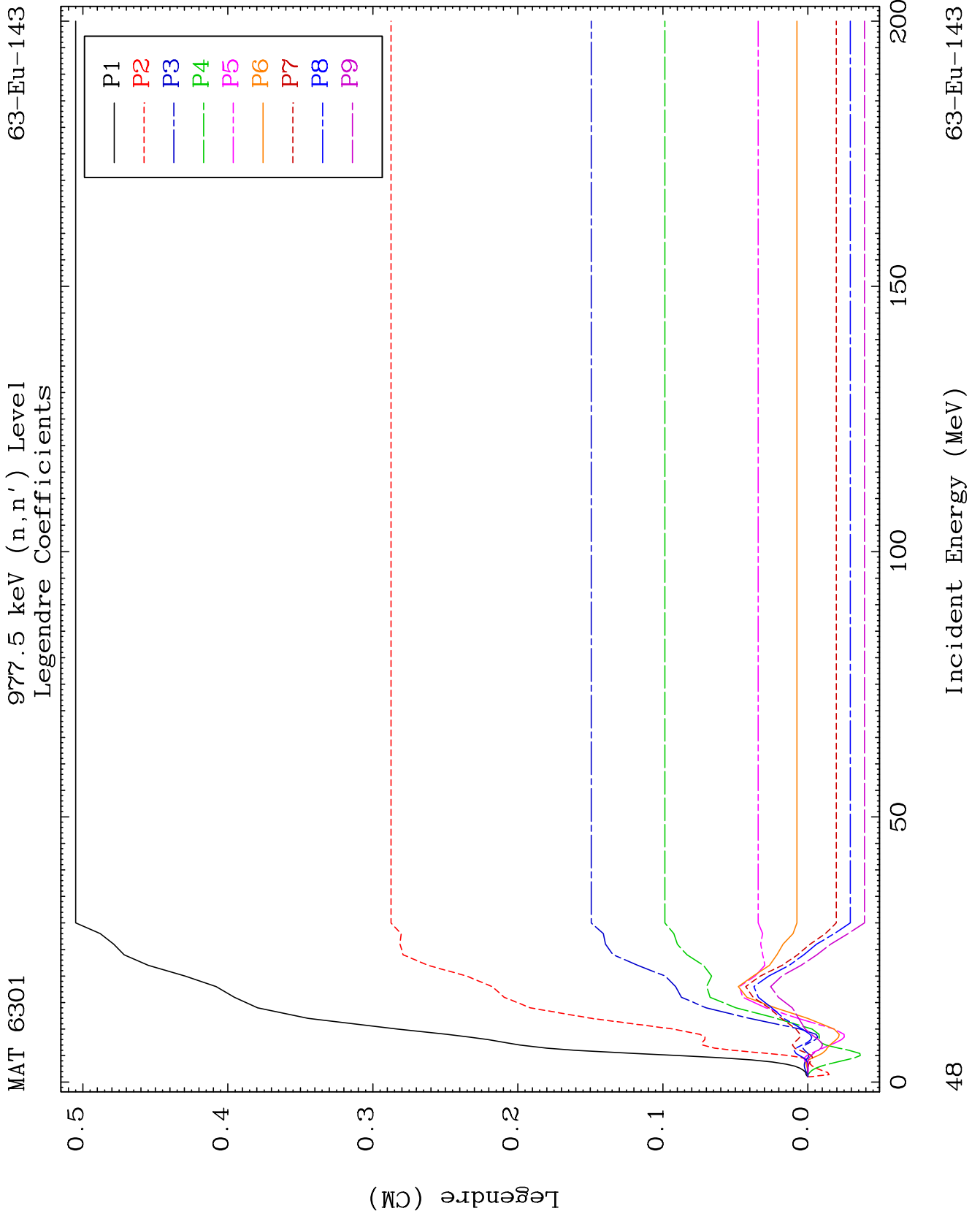
63-Eu-143



47

Incident Energy (MeV)

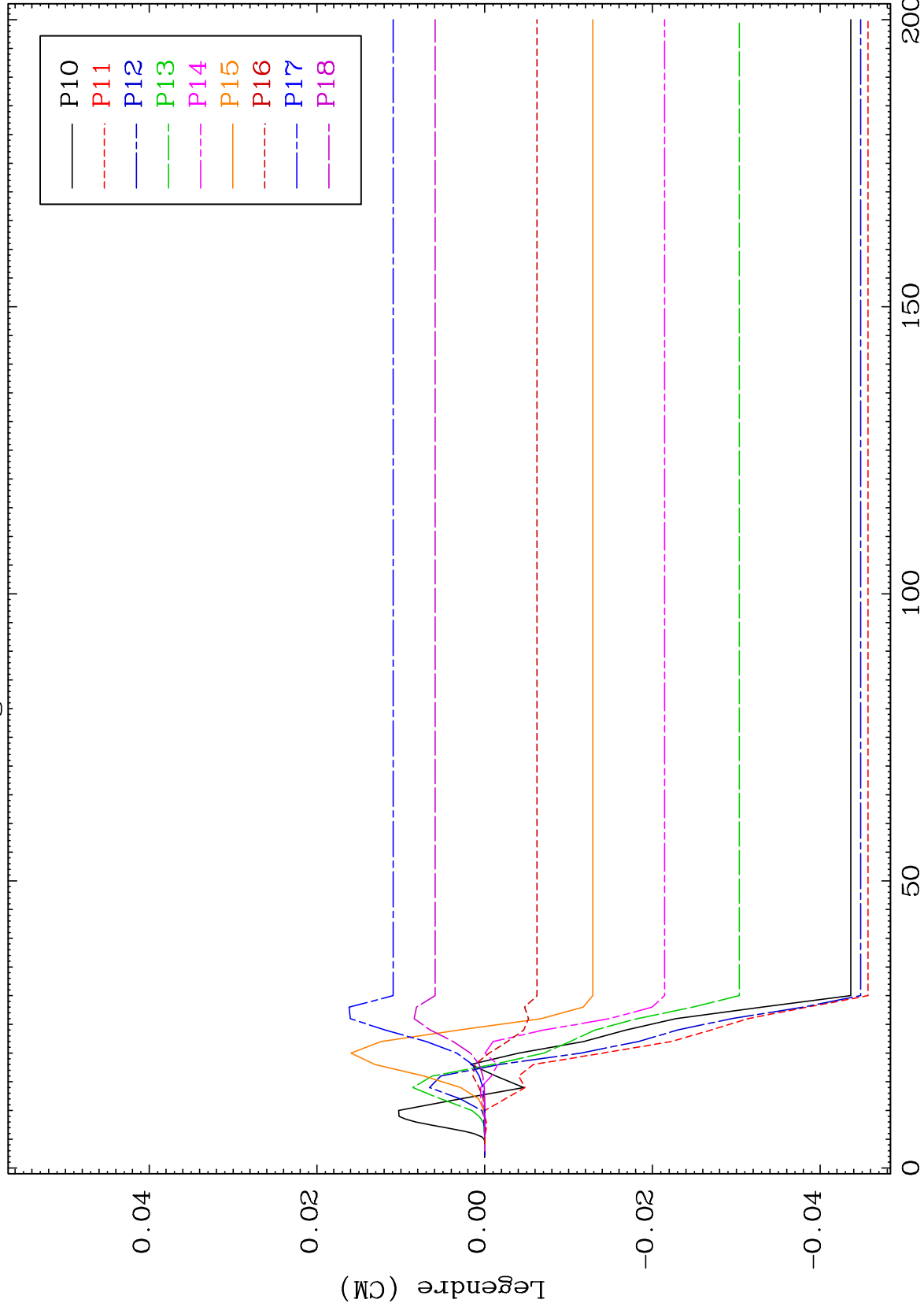
63-Eu-143



MAT 6301

977.5 keV (n,n') Level
Legendre Coefficients

63-Eu-143



49

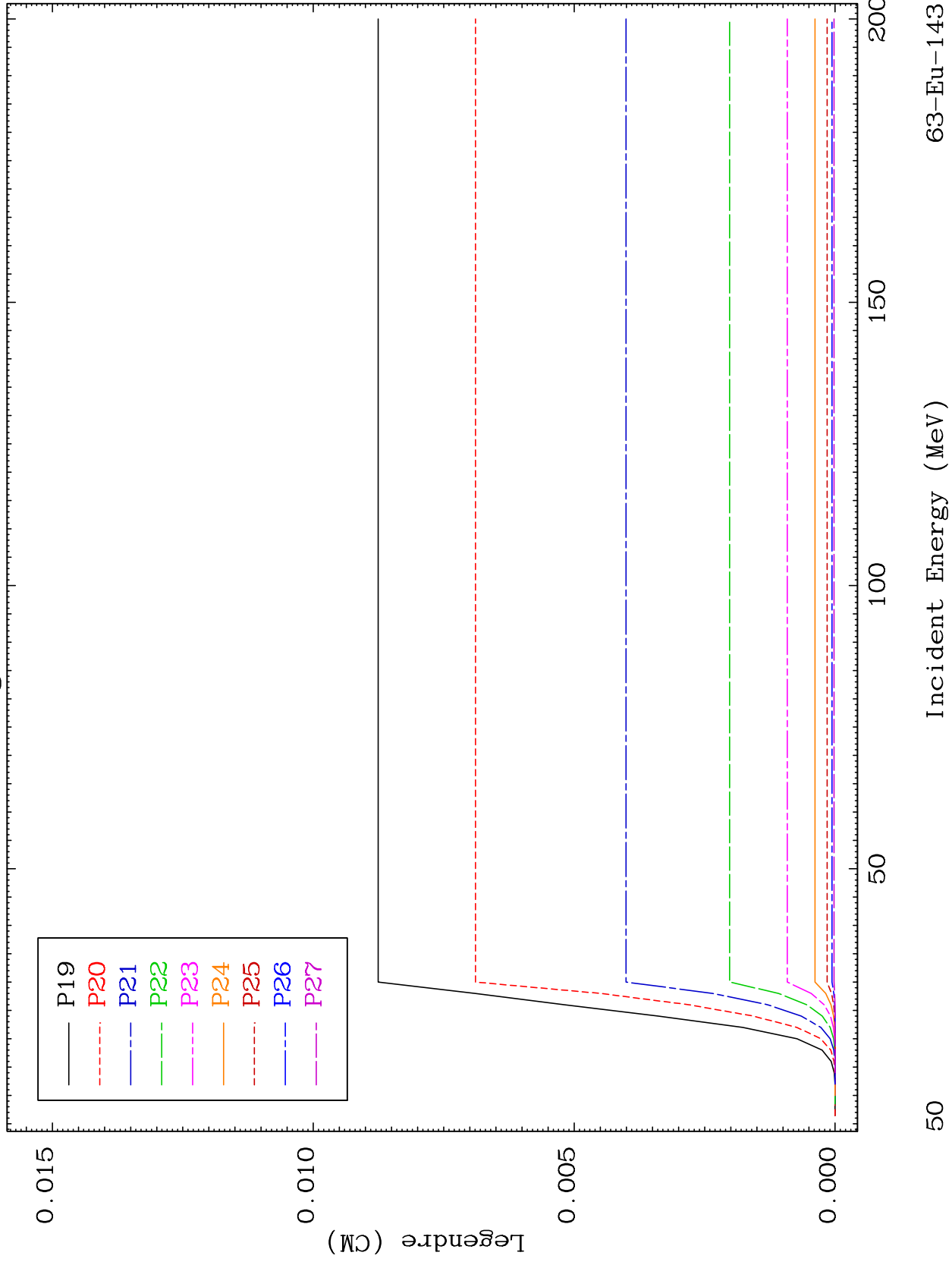
Incident Energy (MeV)

63-Eu-143

MAT 6301

977.5 keV (n, n') Level
Legendre Coefficients

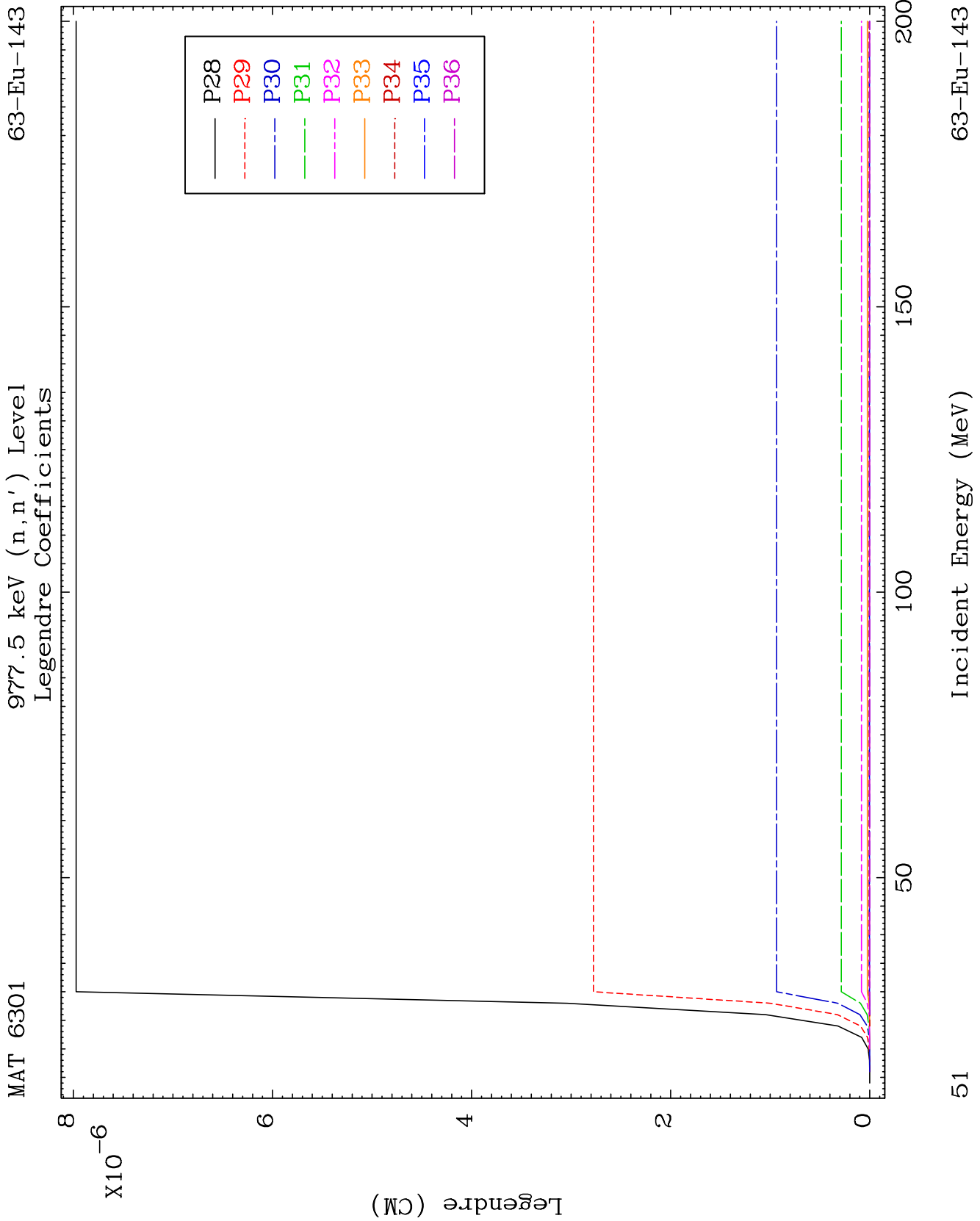
63-Eu-143

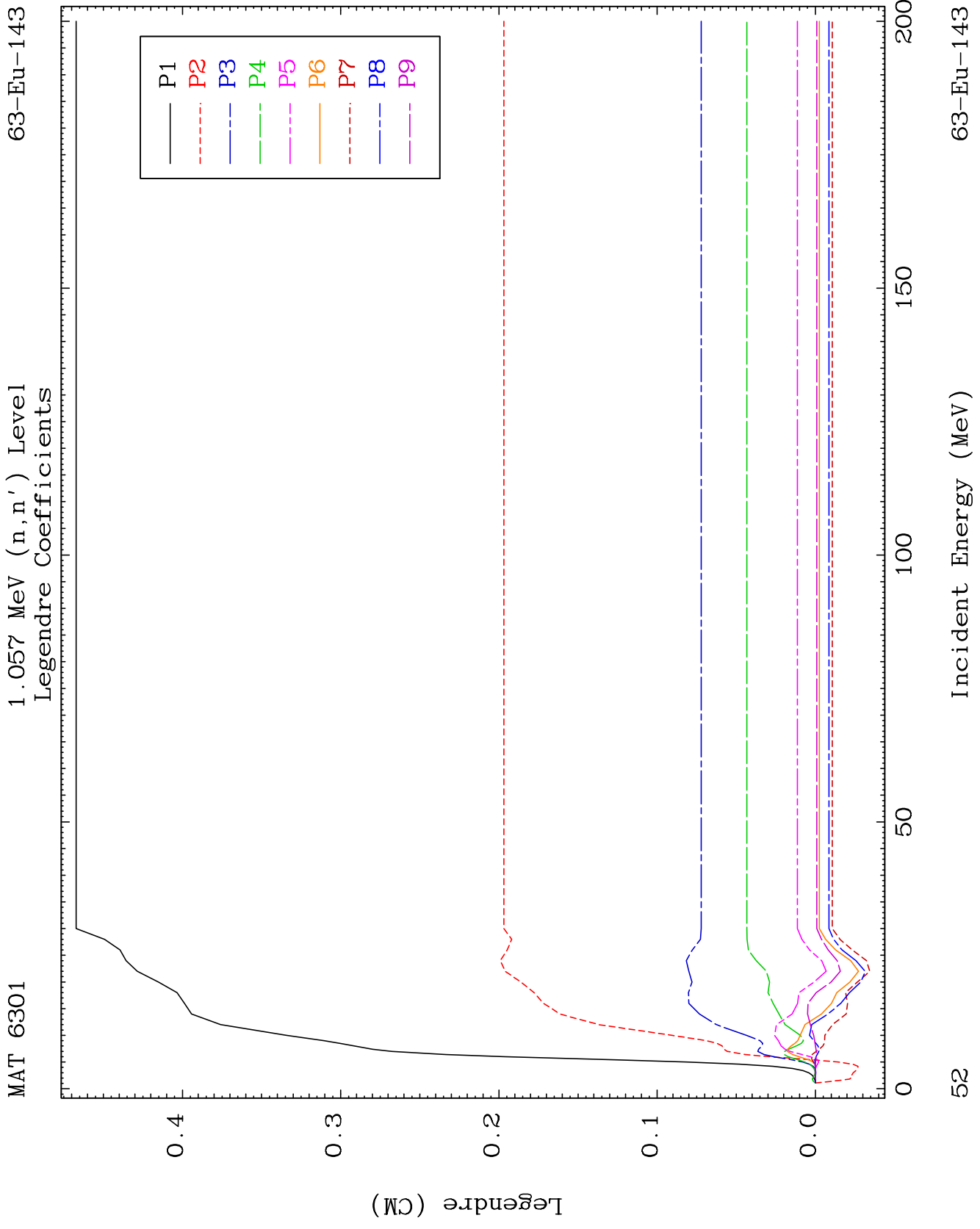


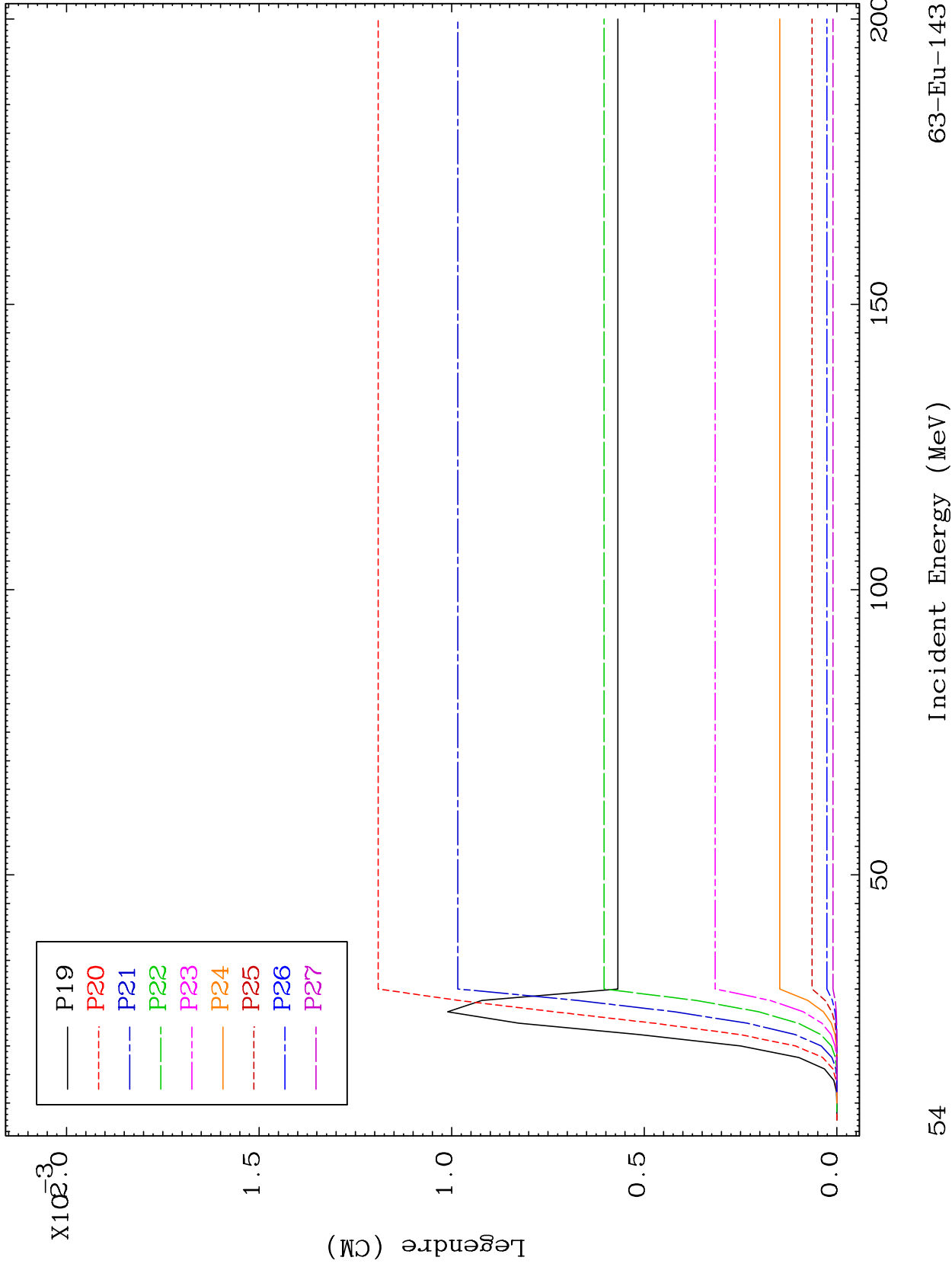
63-Eu-143

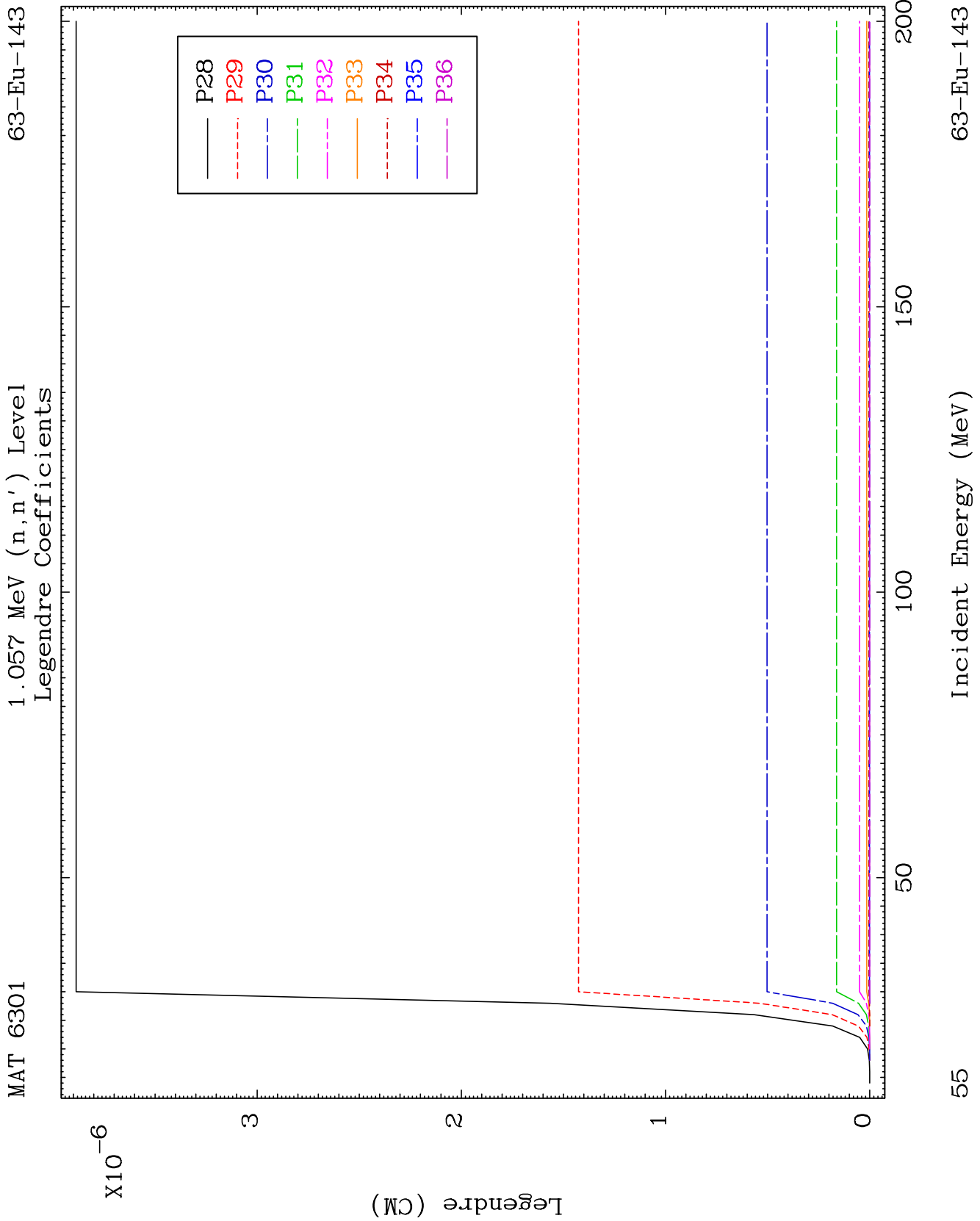
Incident Energy (MeV)

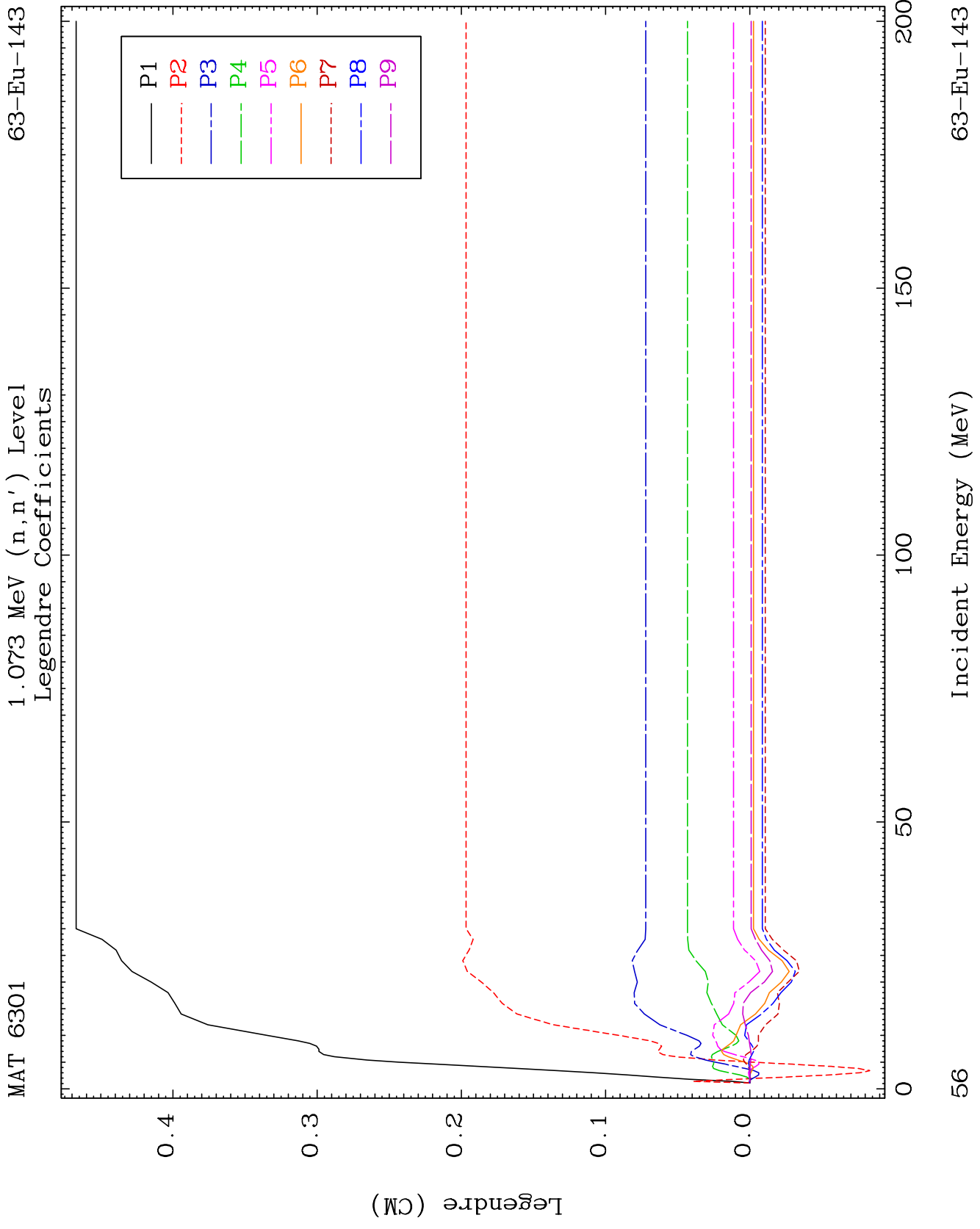
50

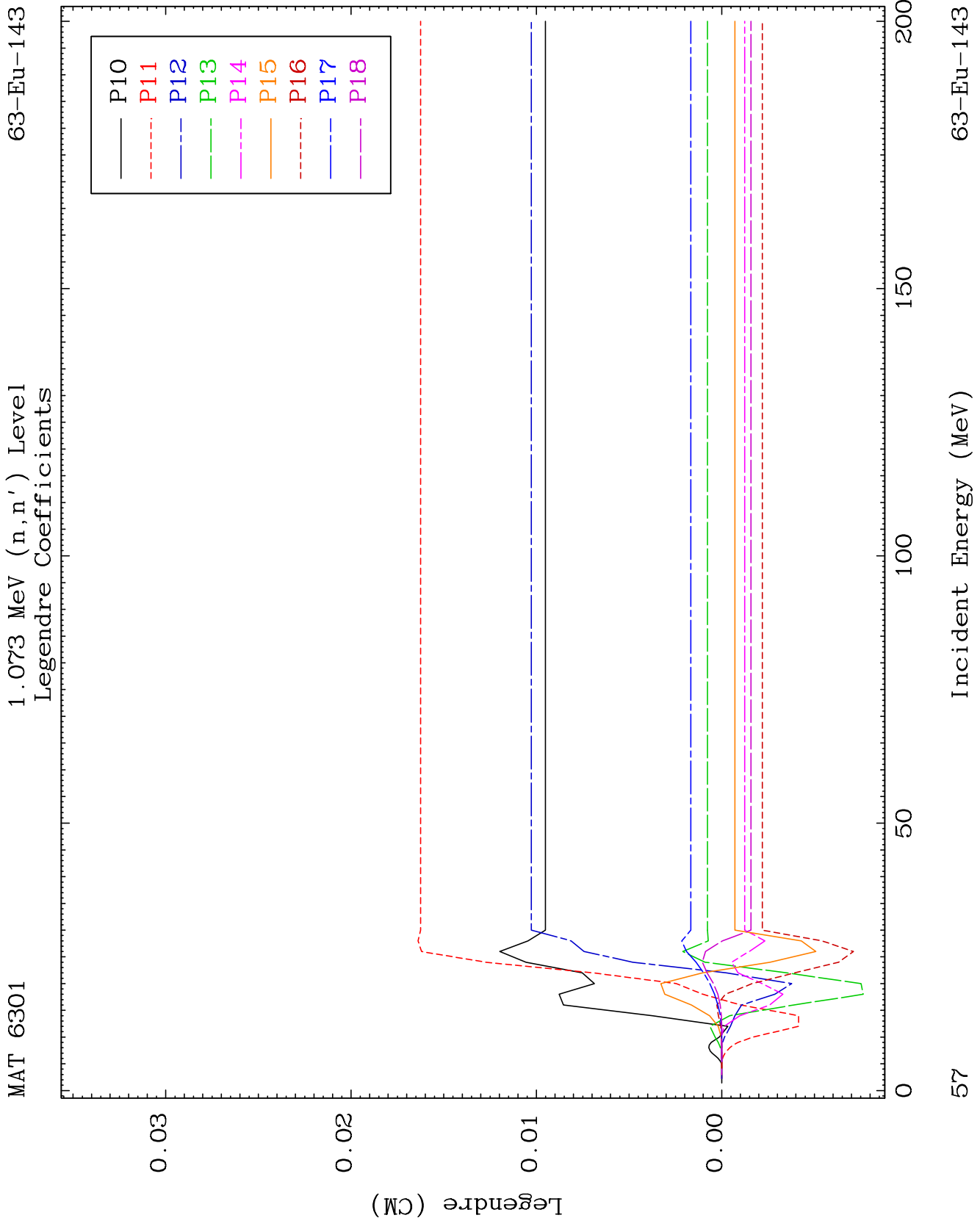








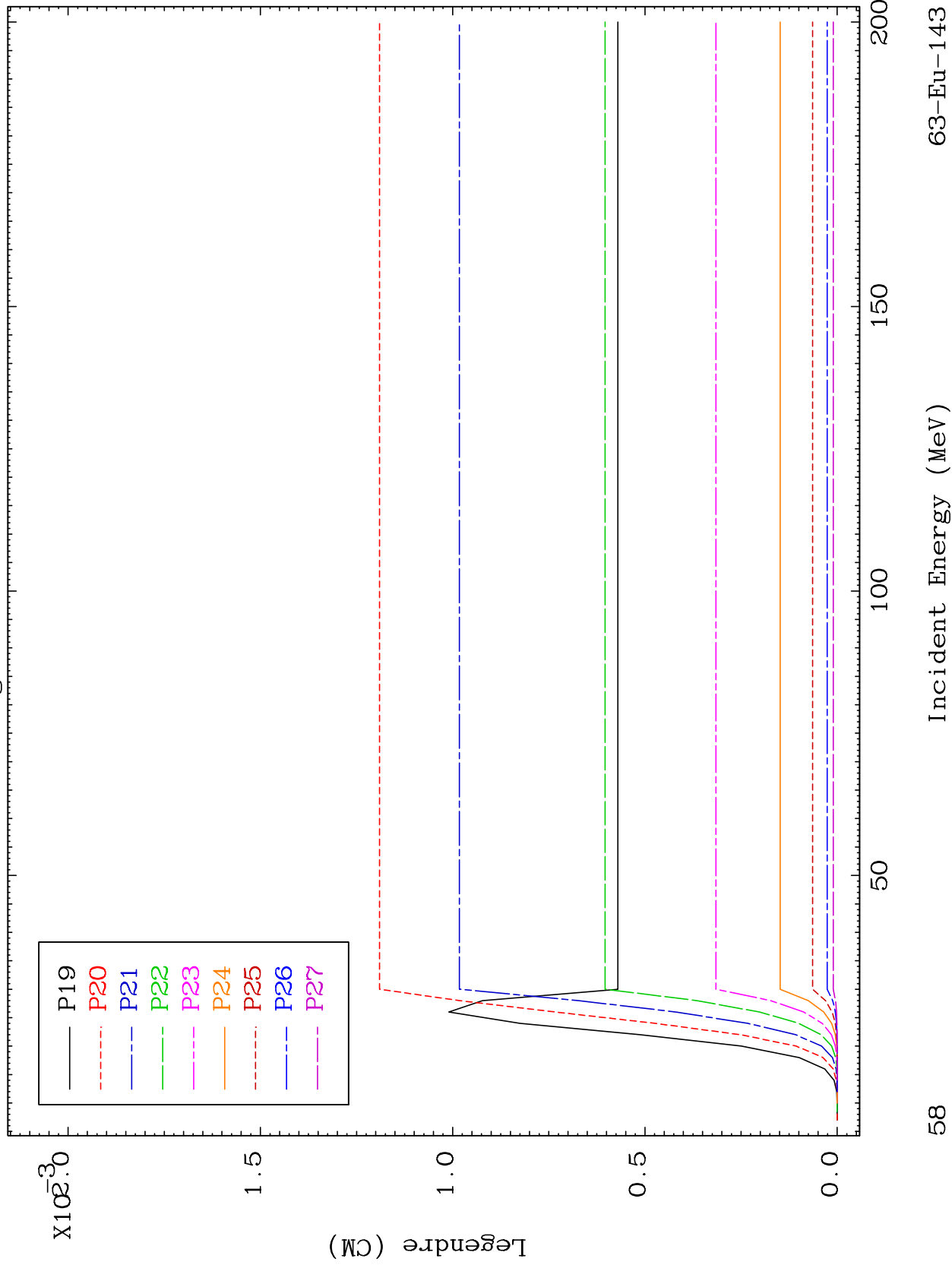




MAT 6301

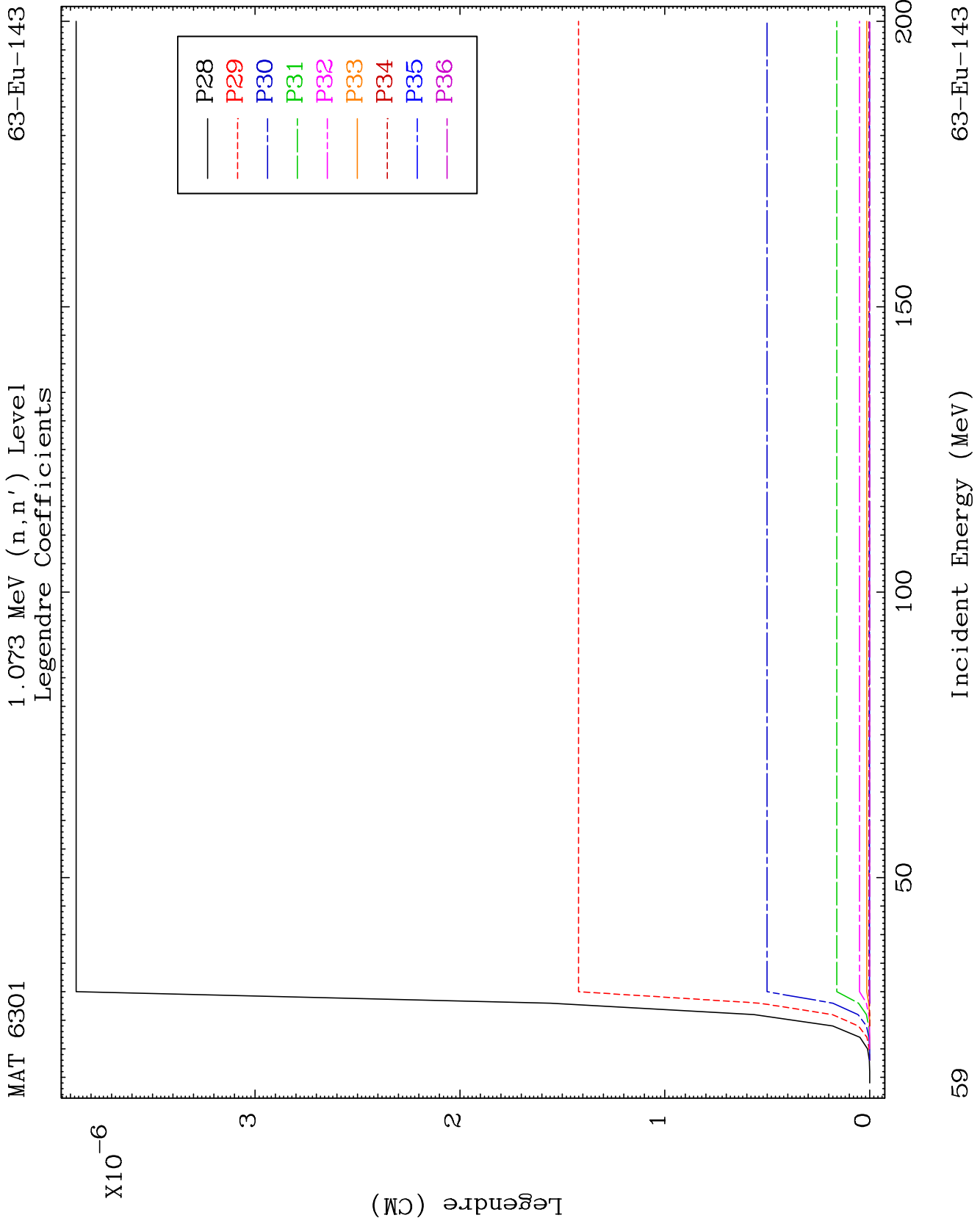
1.073 MeV (n, n') Level
Legendre Coefficients

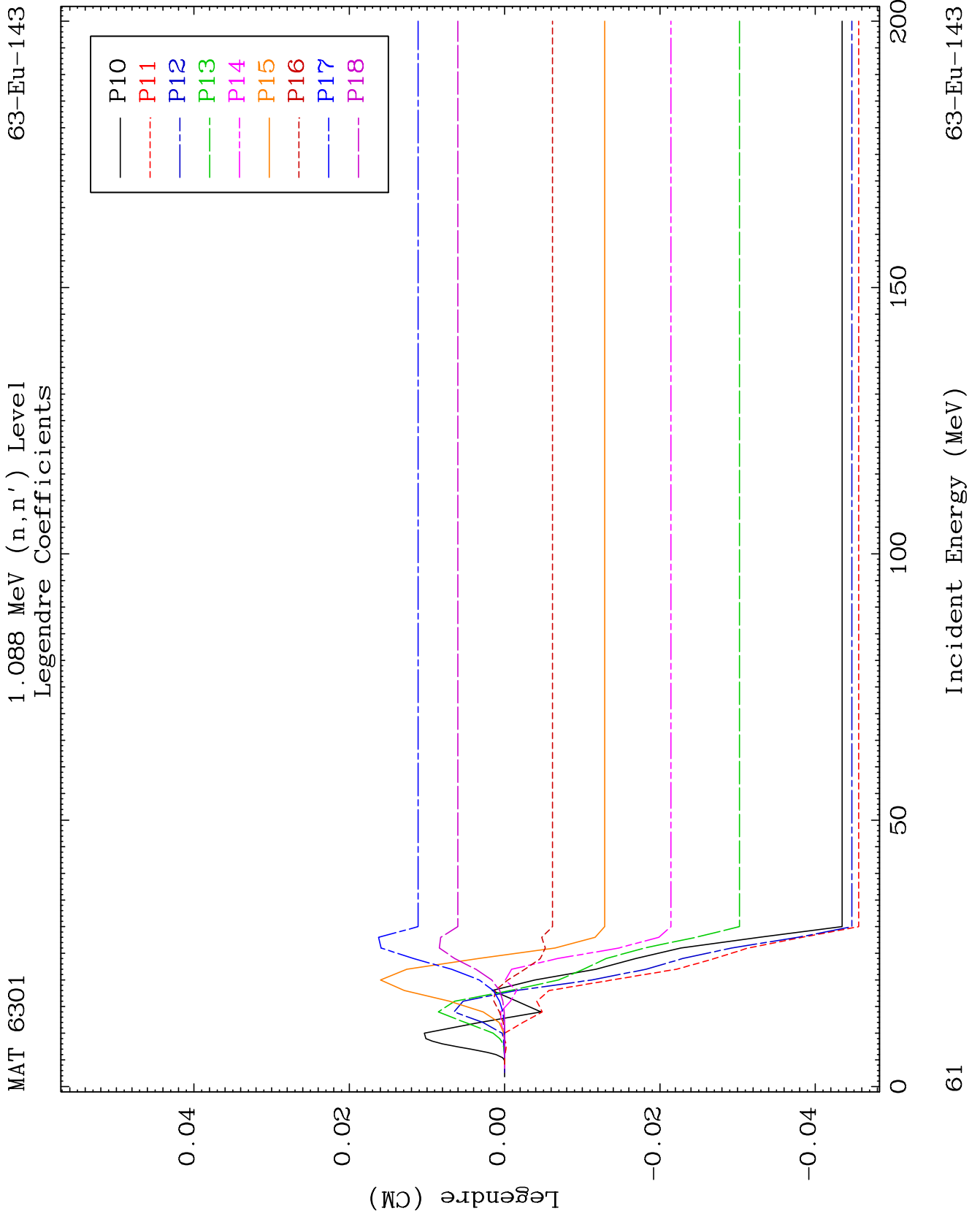
63-Eu-143



58

200

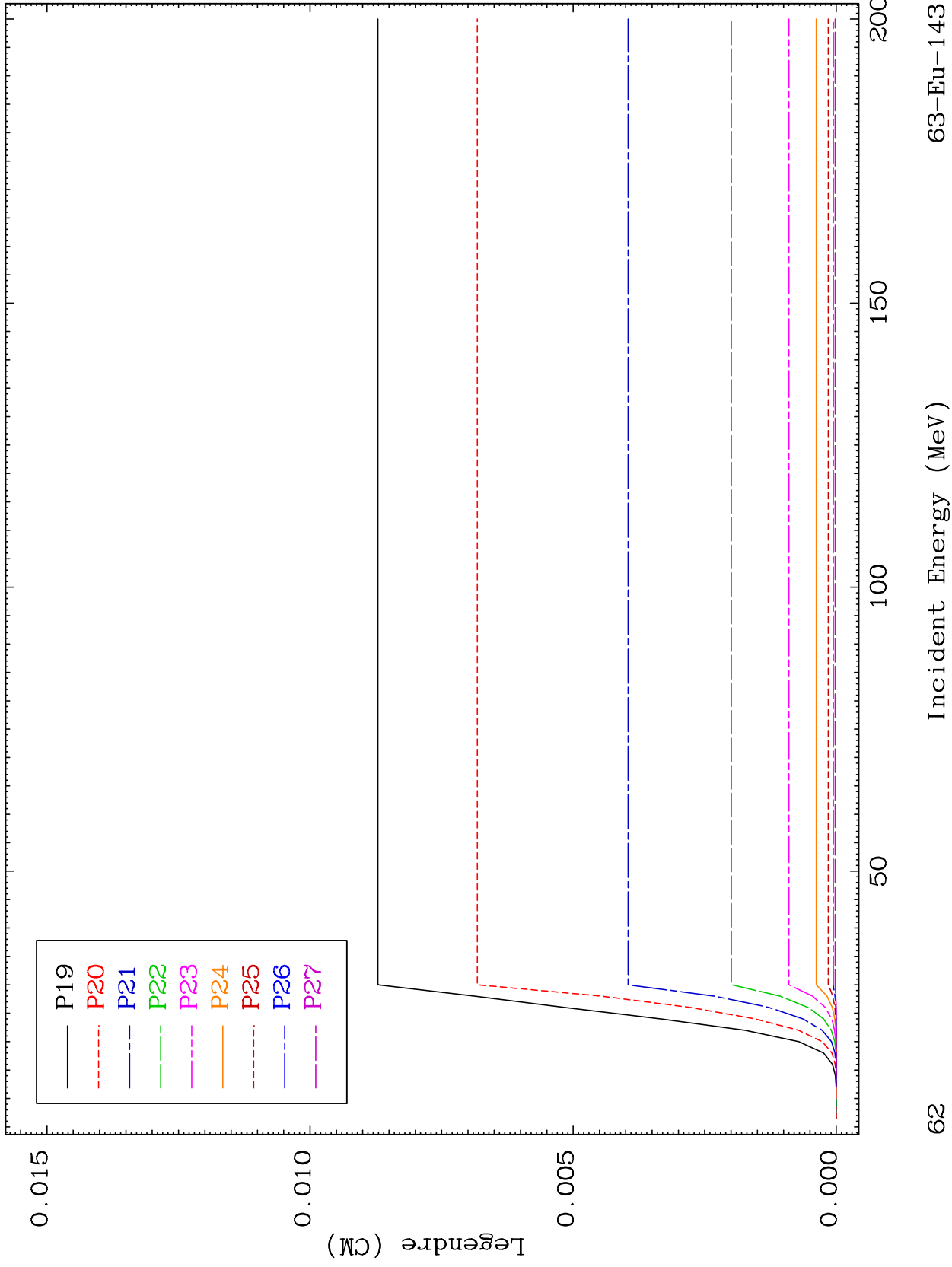




MAT 6301

1.088 MeV (n,n') Level
Legendre Coefficients

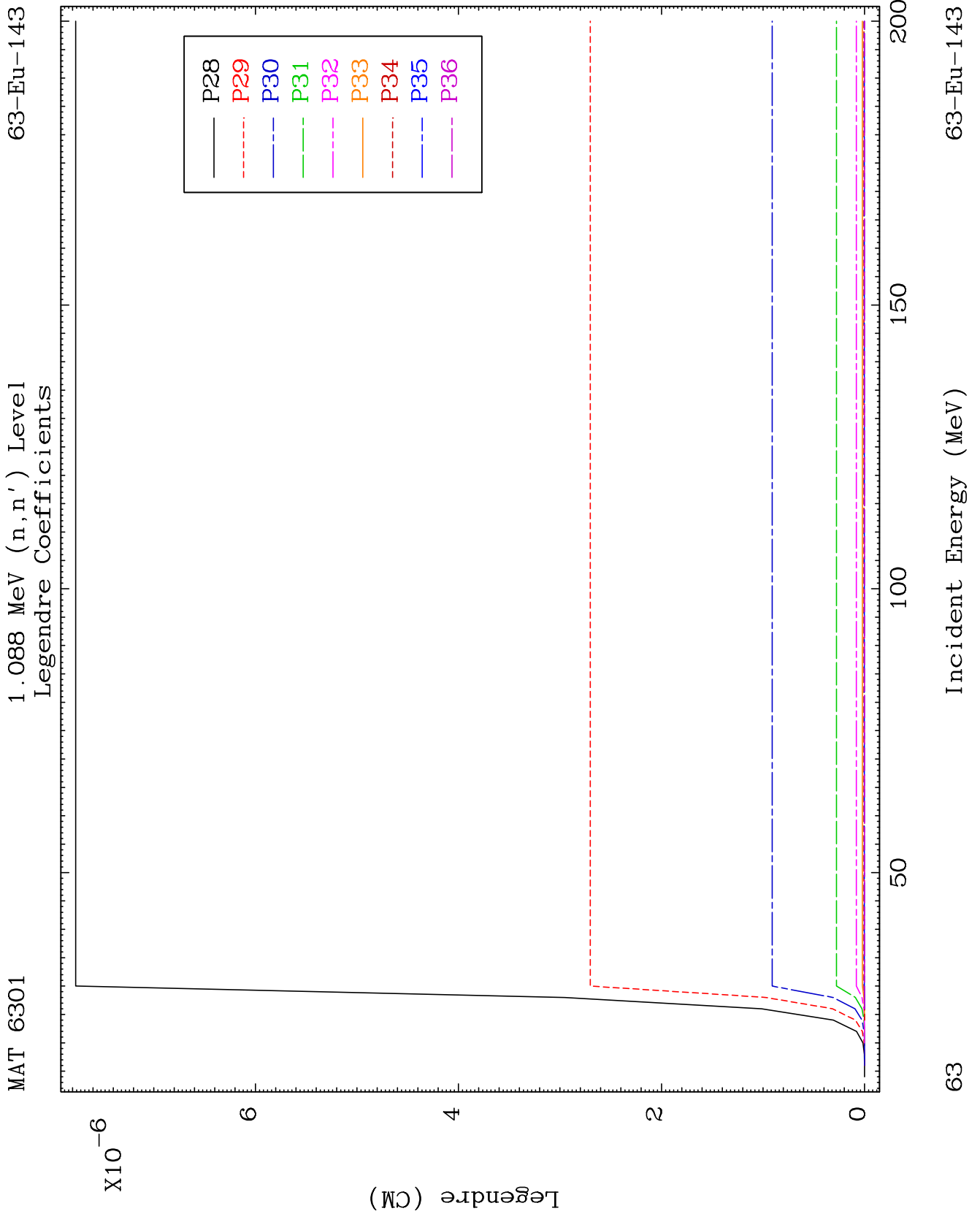
63-Eu-143

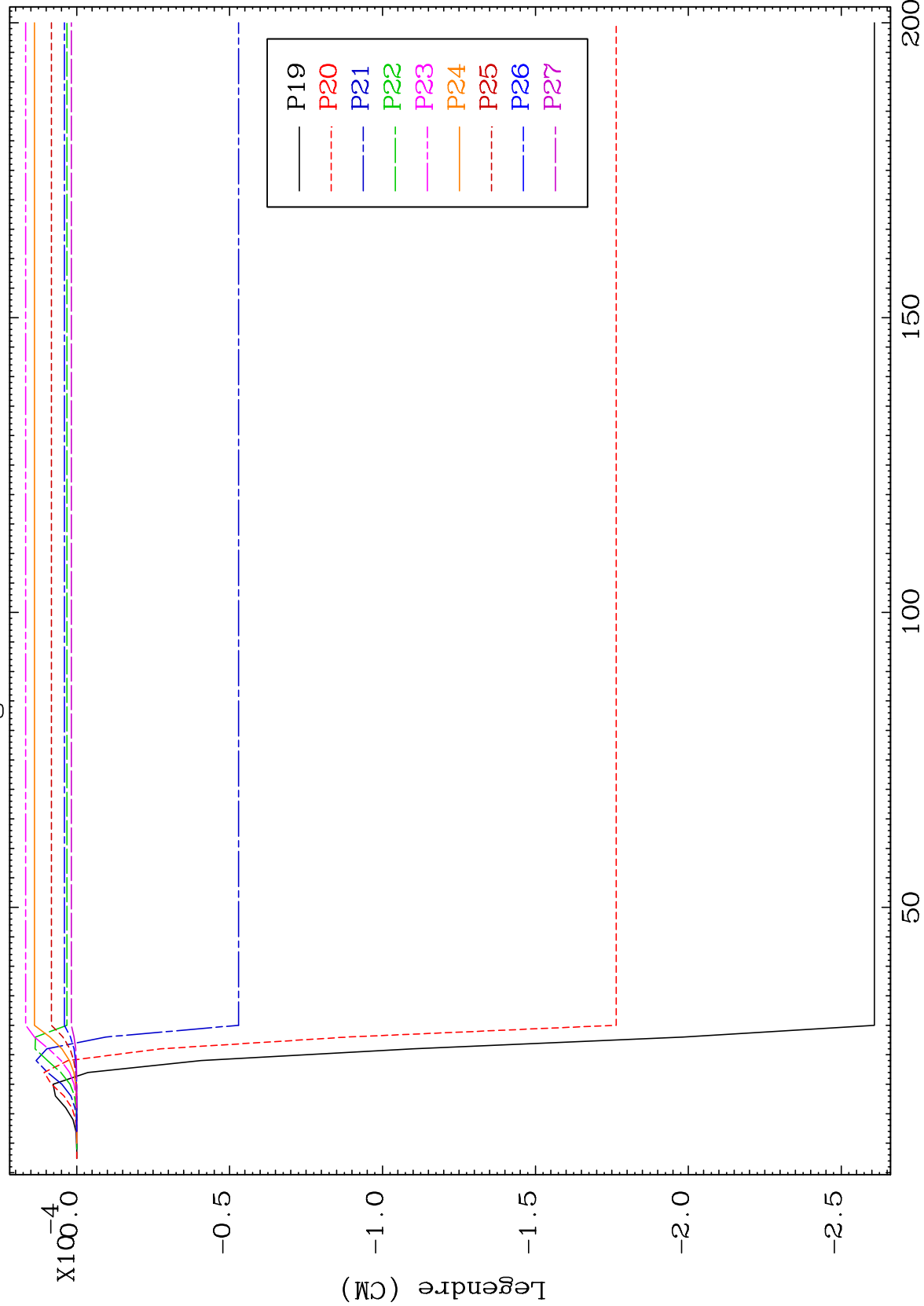


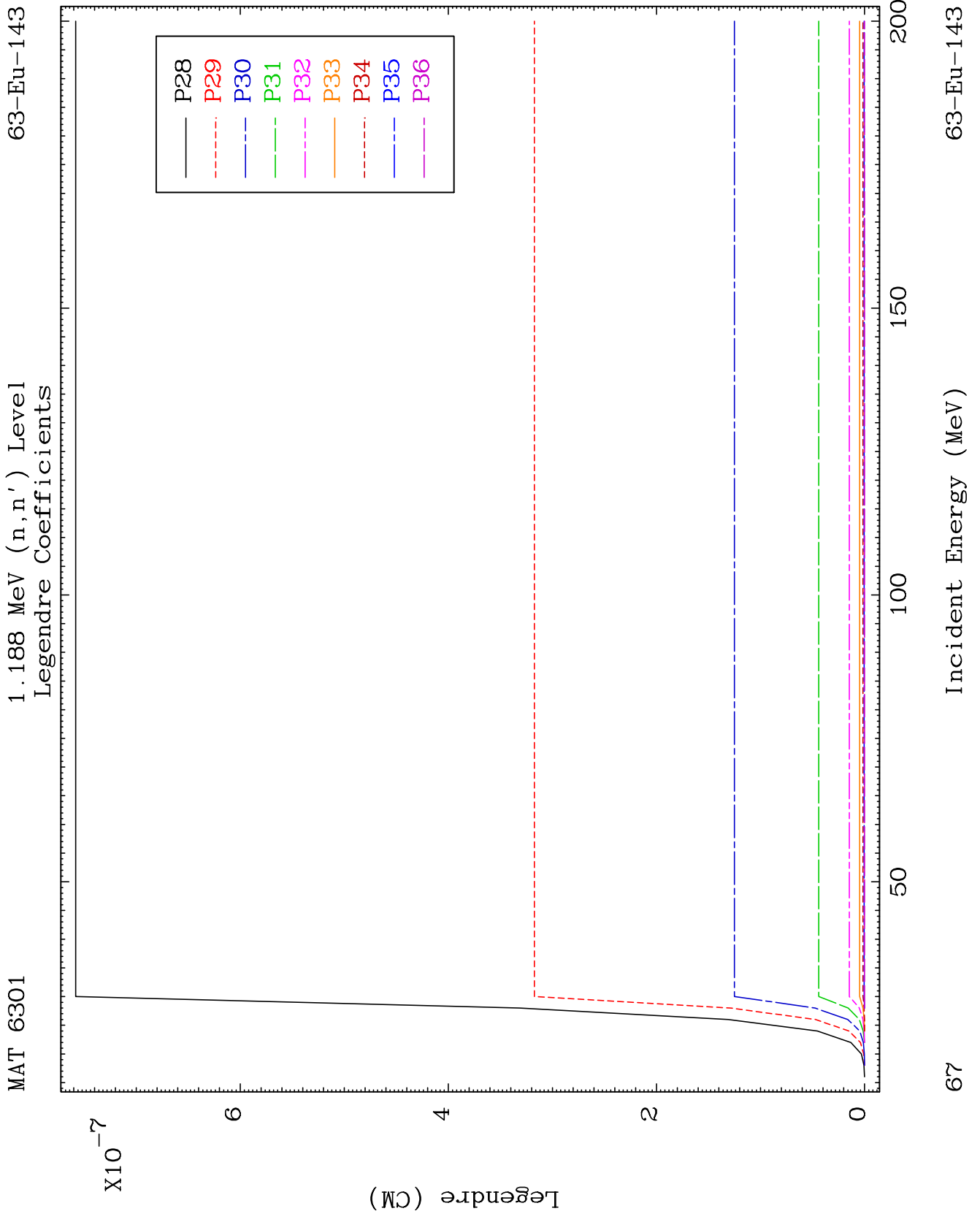
63-Eu-143

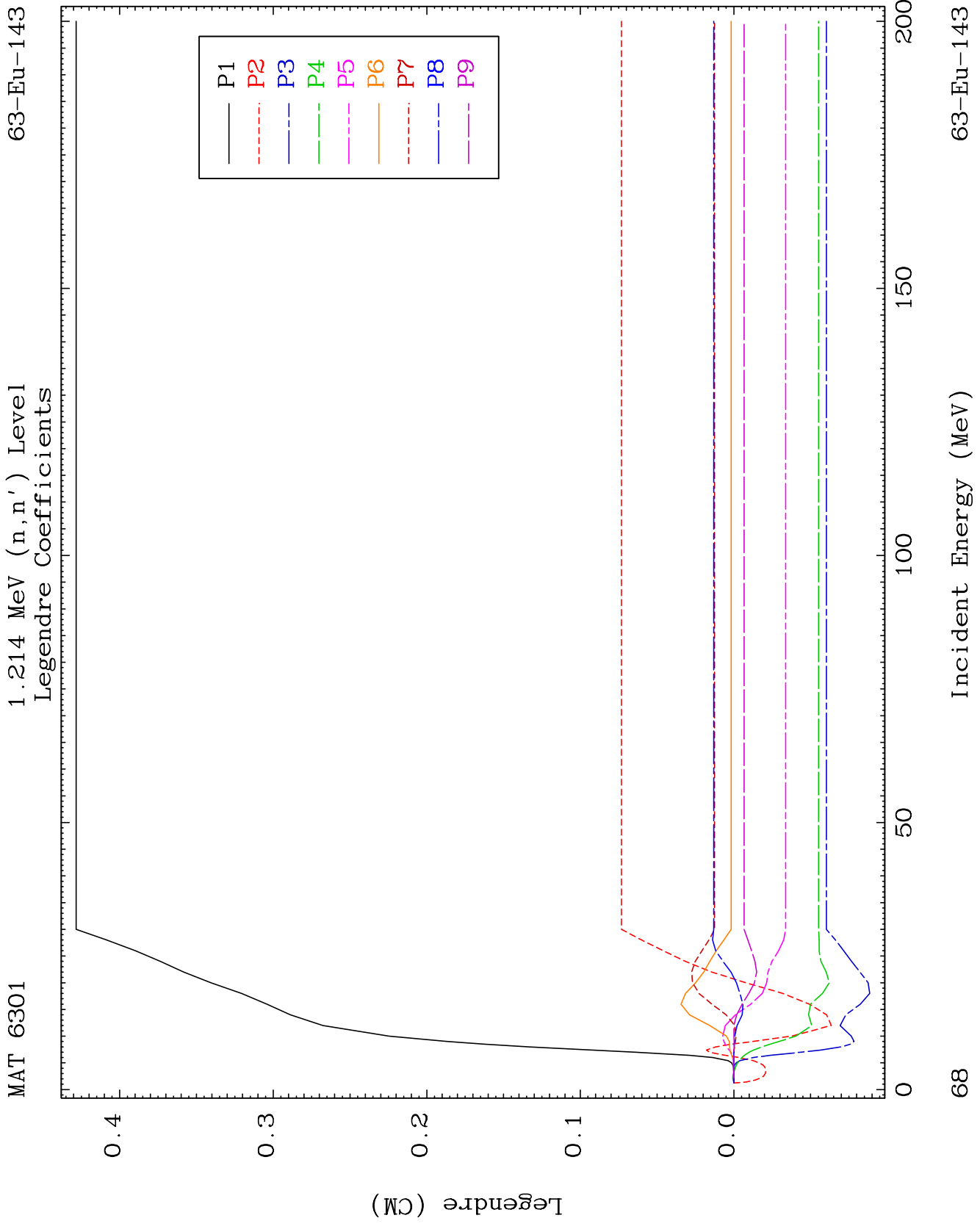
Incident Energy (MeV)

62





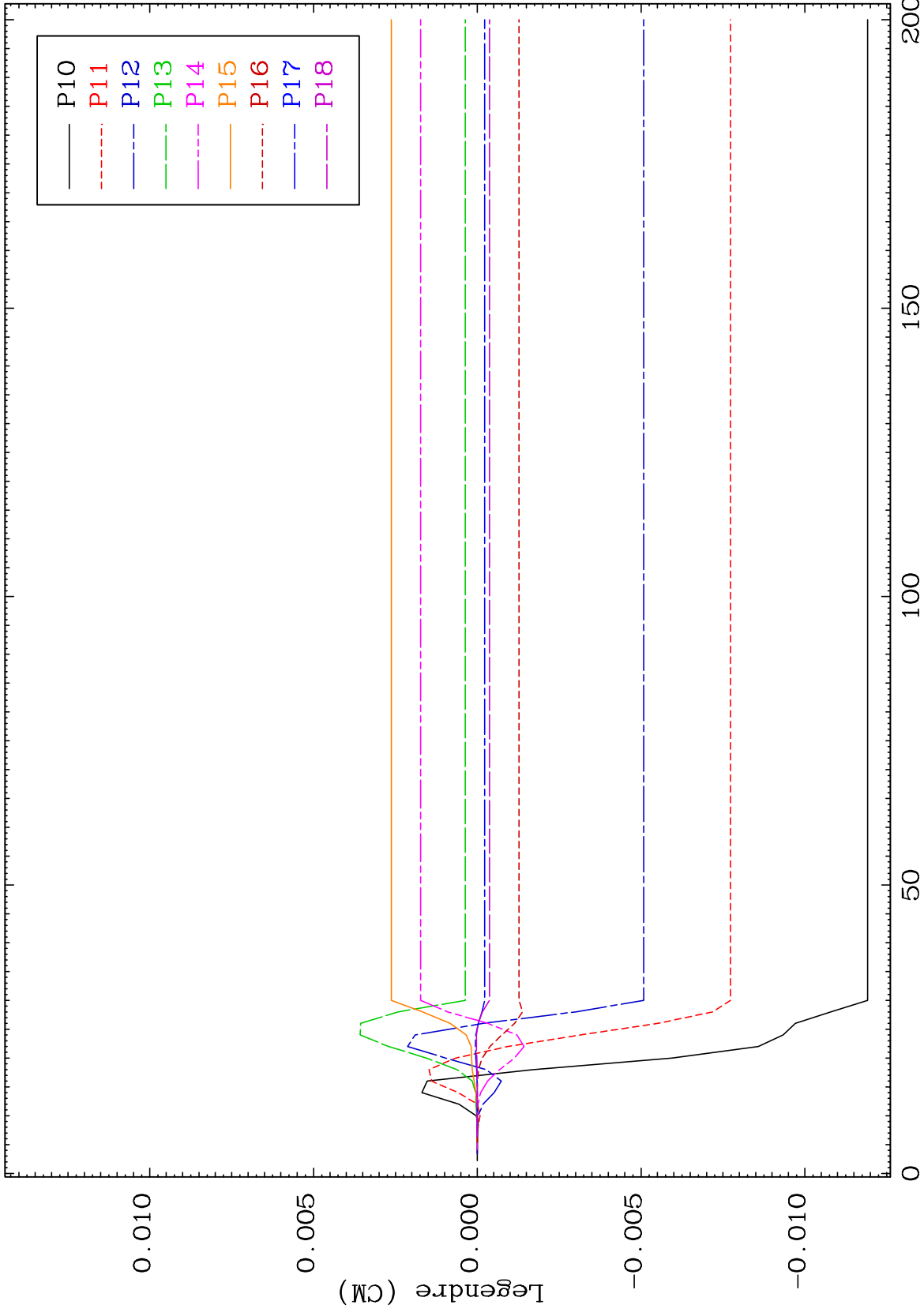




MAT 6301

1.214 MeV (n,n') Level
Legendre Coefficients

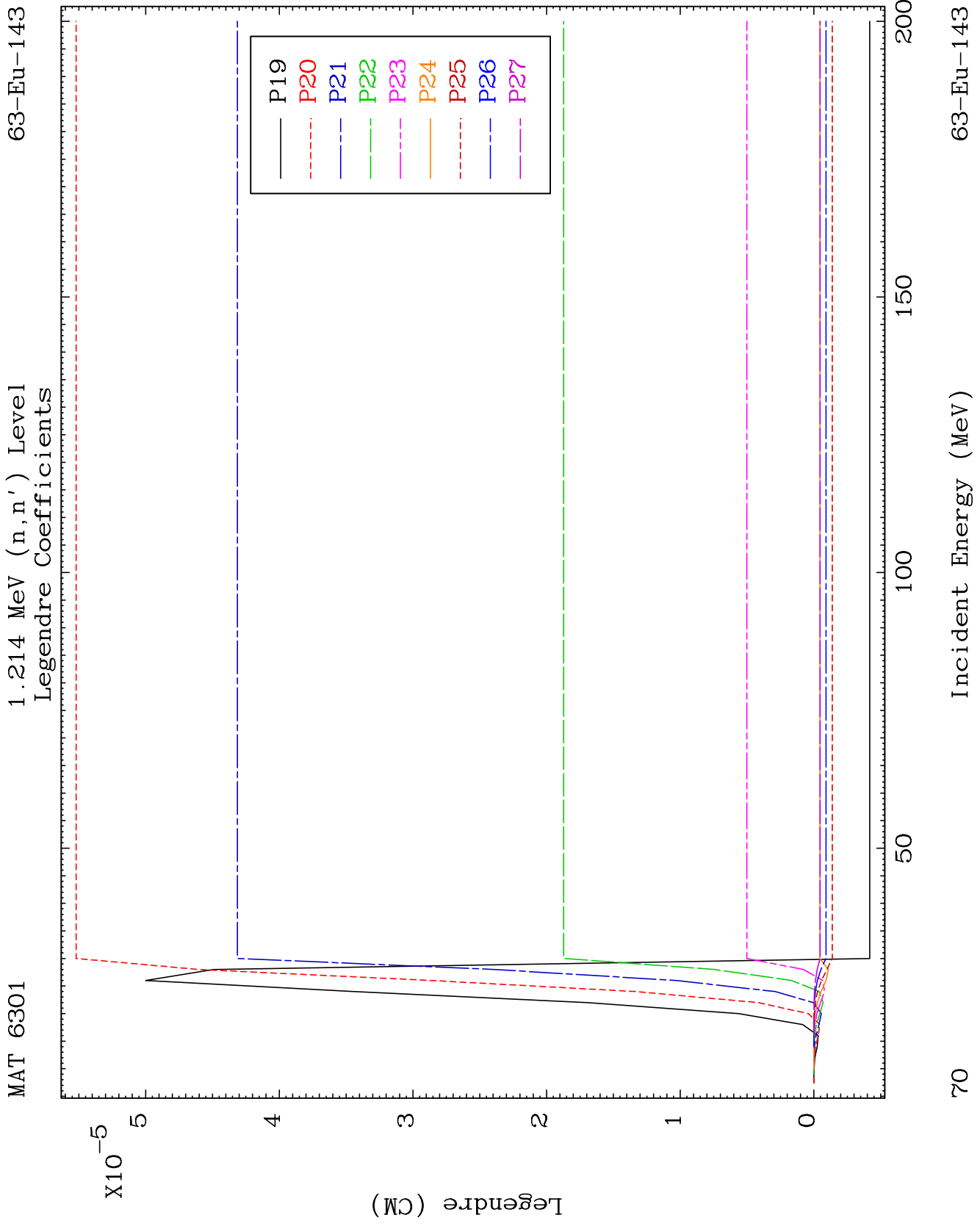
63-Eu-143

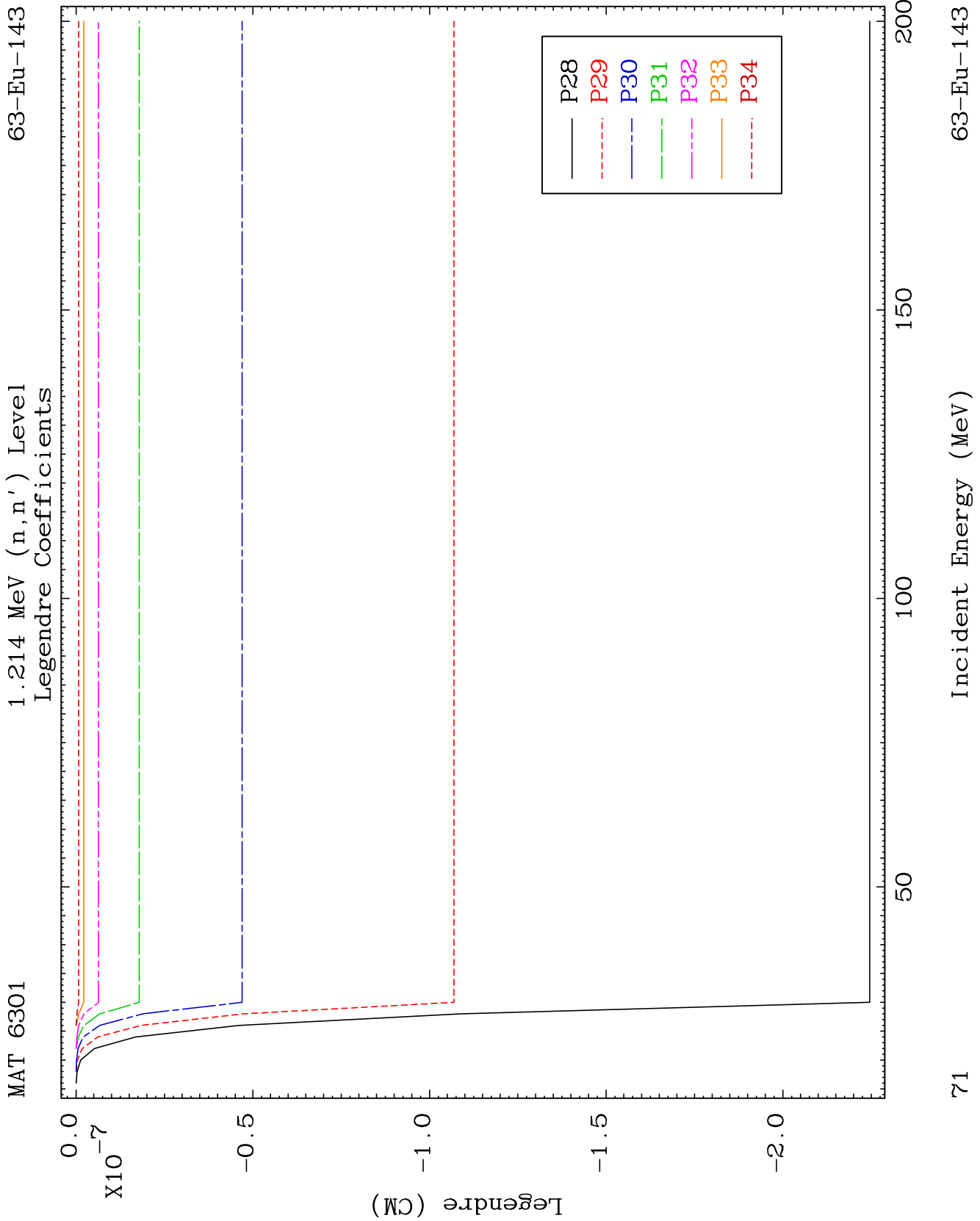


69

Incident Energy (MeV)

63-Eu-143

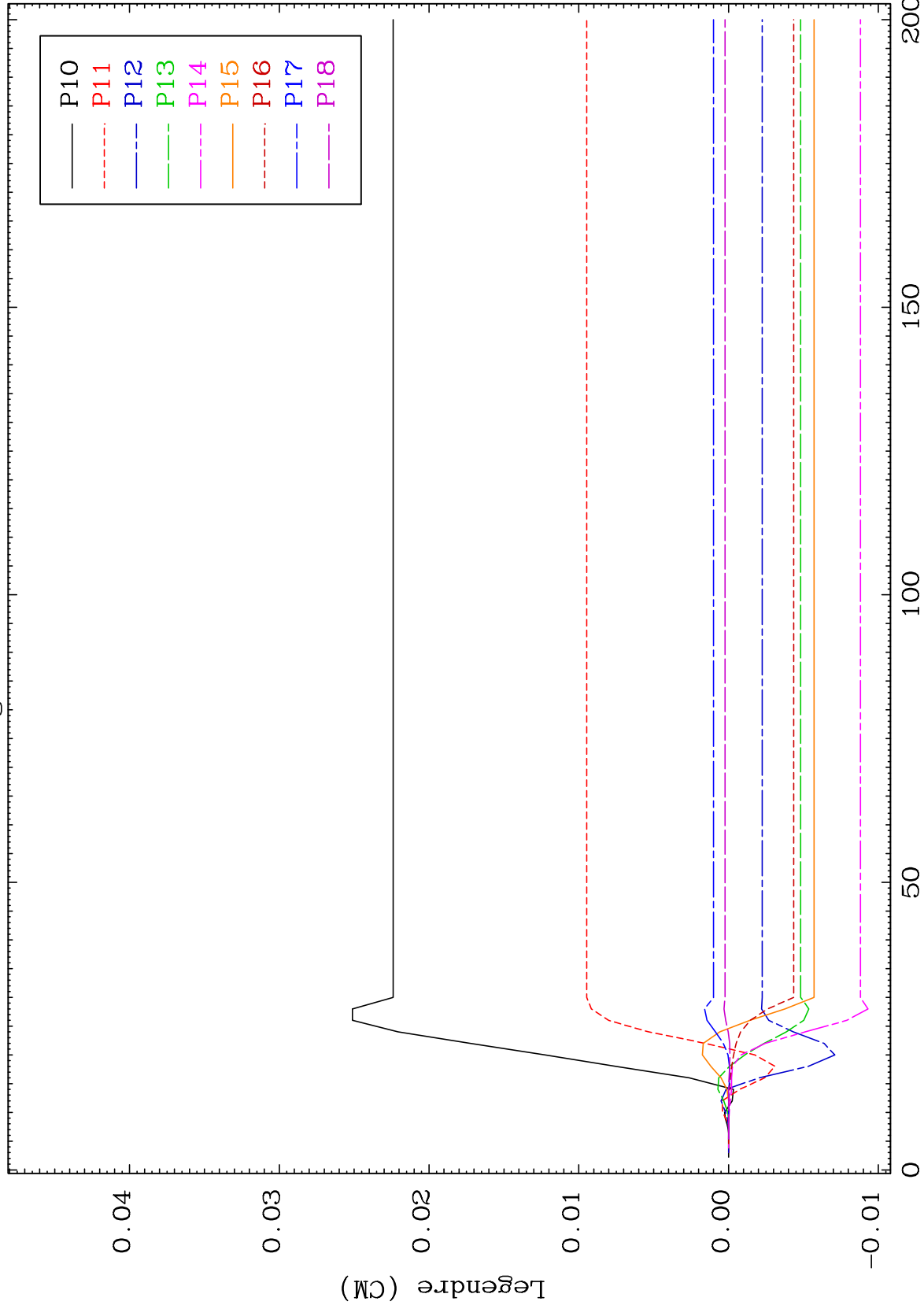




MAT 6301

1.257 MeV (n,n') Level
Legendre Coefficients

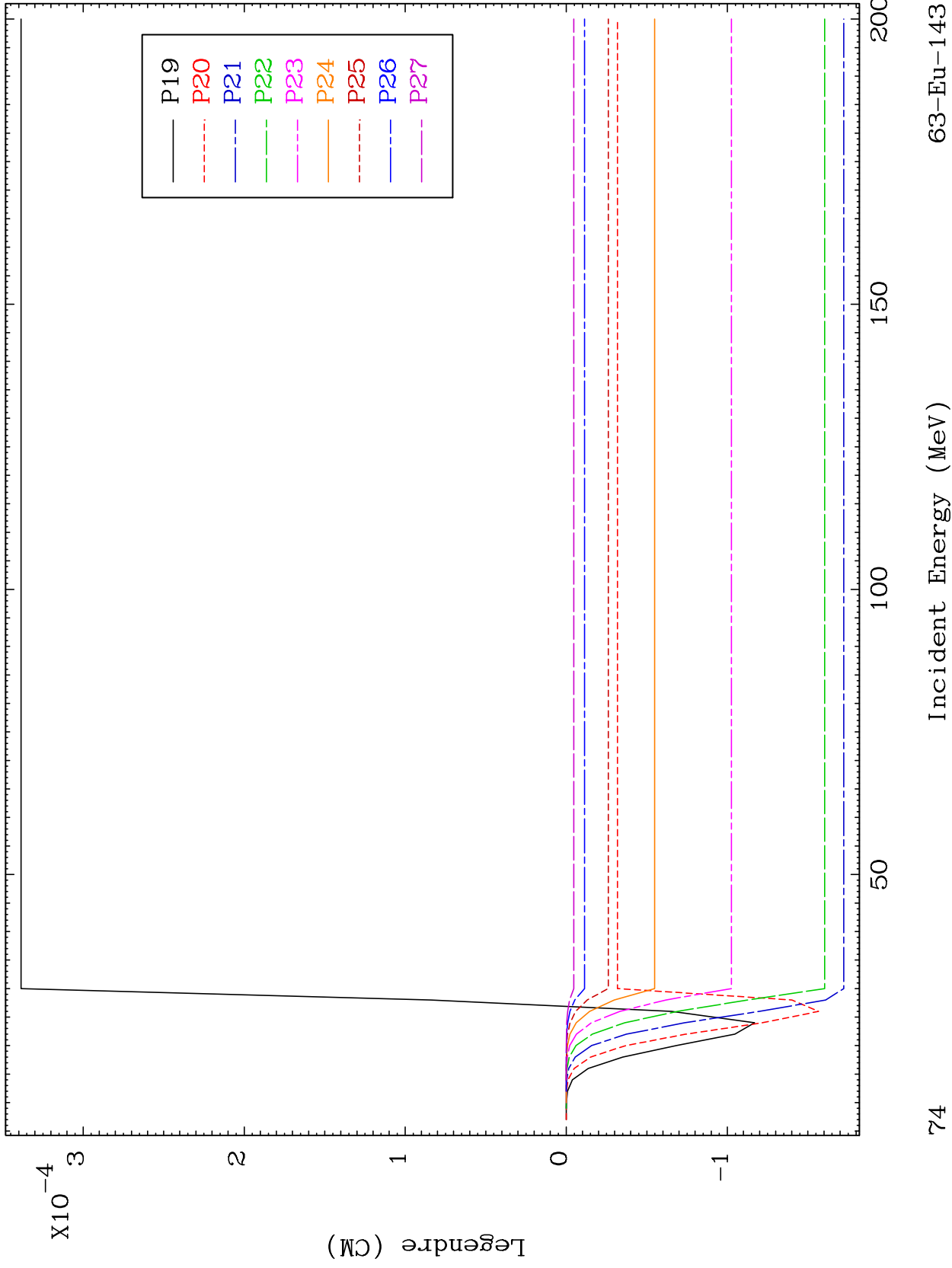
63-Eu-143

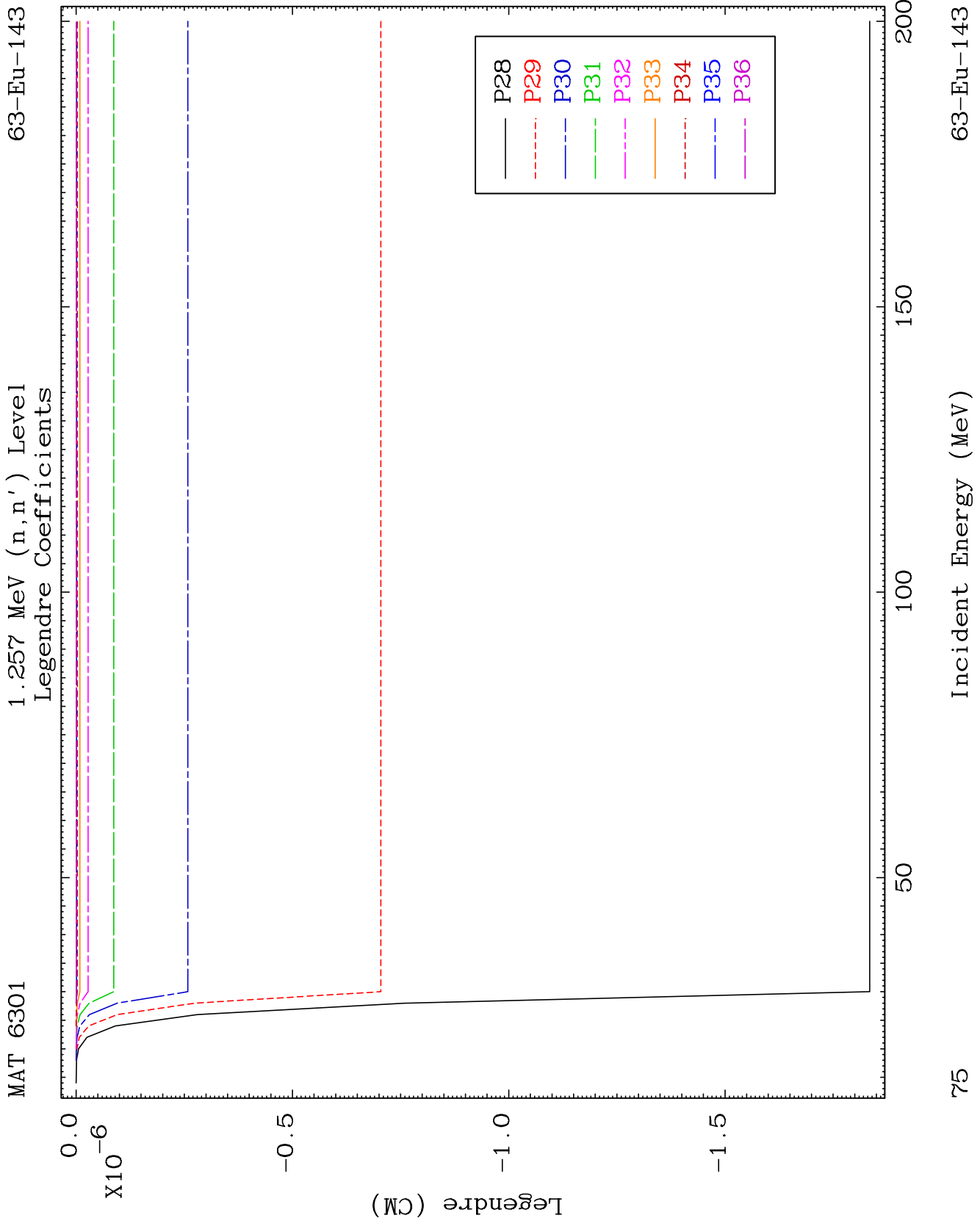


73

Incident Energy (MeV)

63-Eu-143

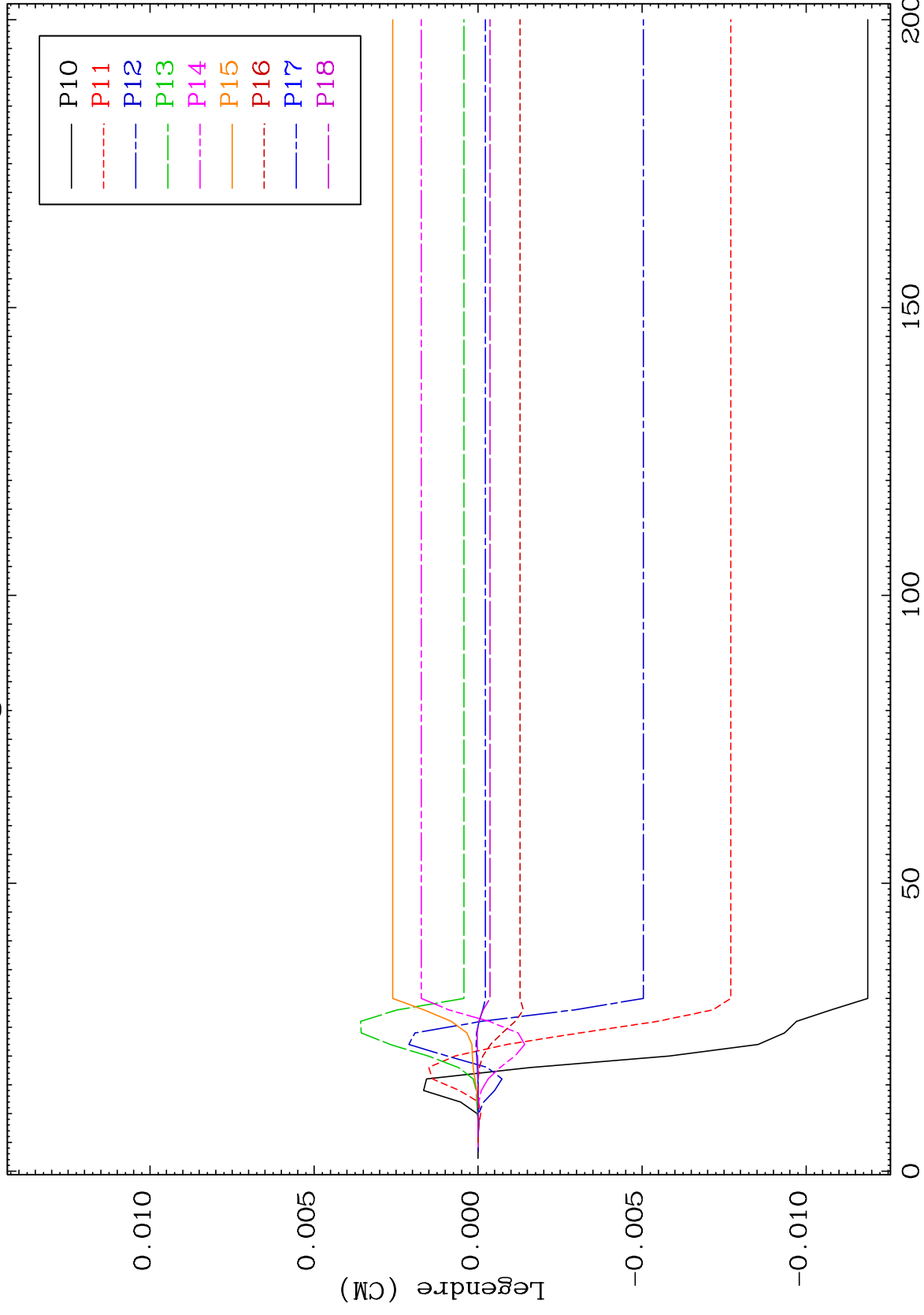




MAT 6301

1.306 MeV (n,n') Level
Legendre Coefficients

63-Eu-143

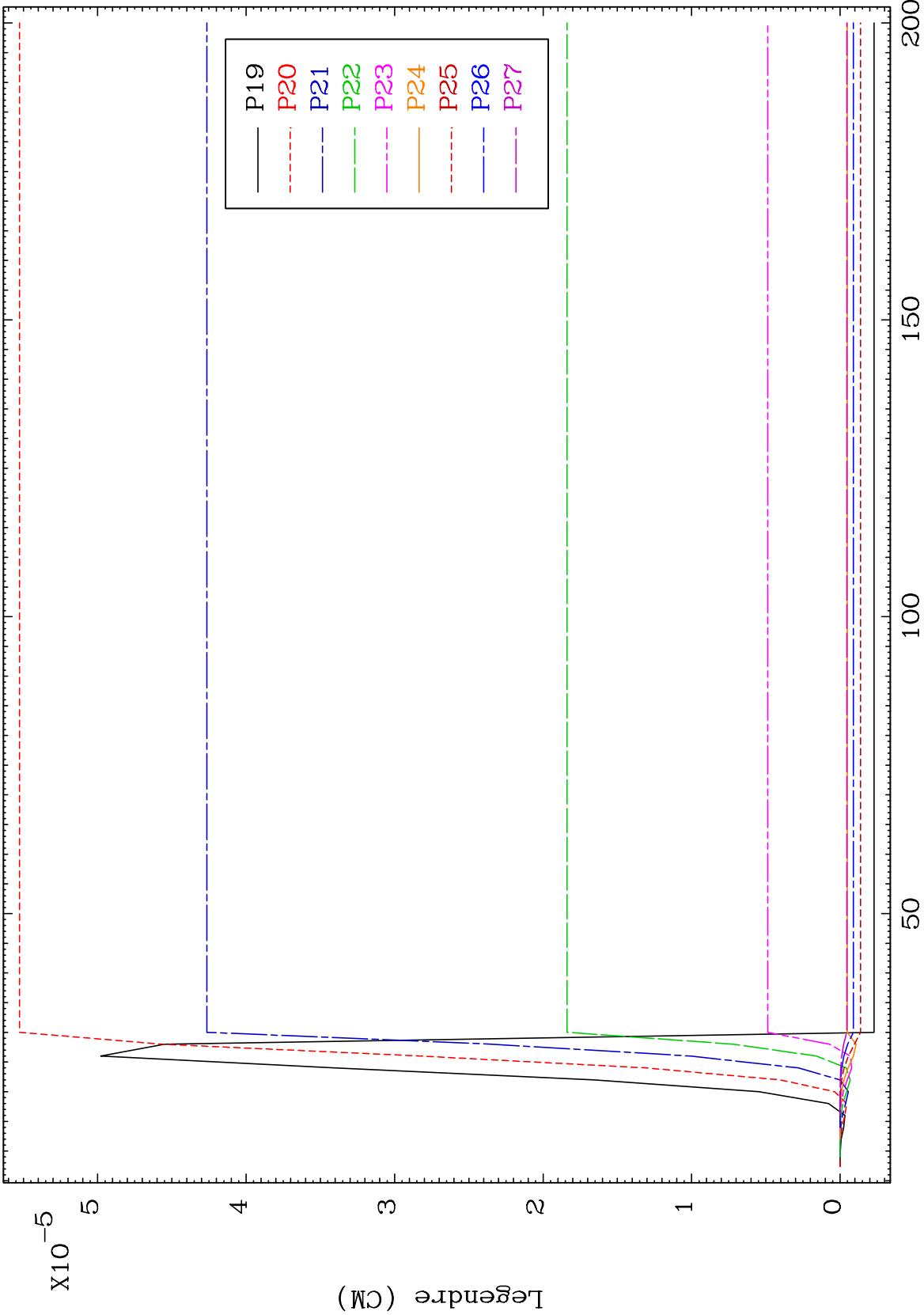


77

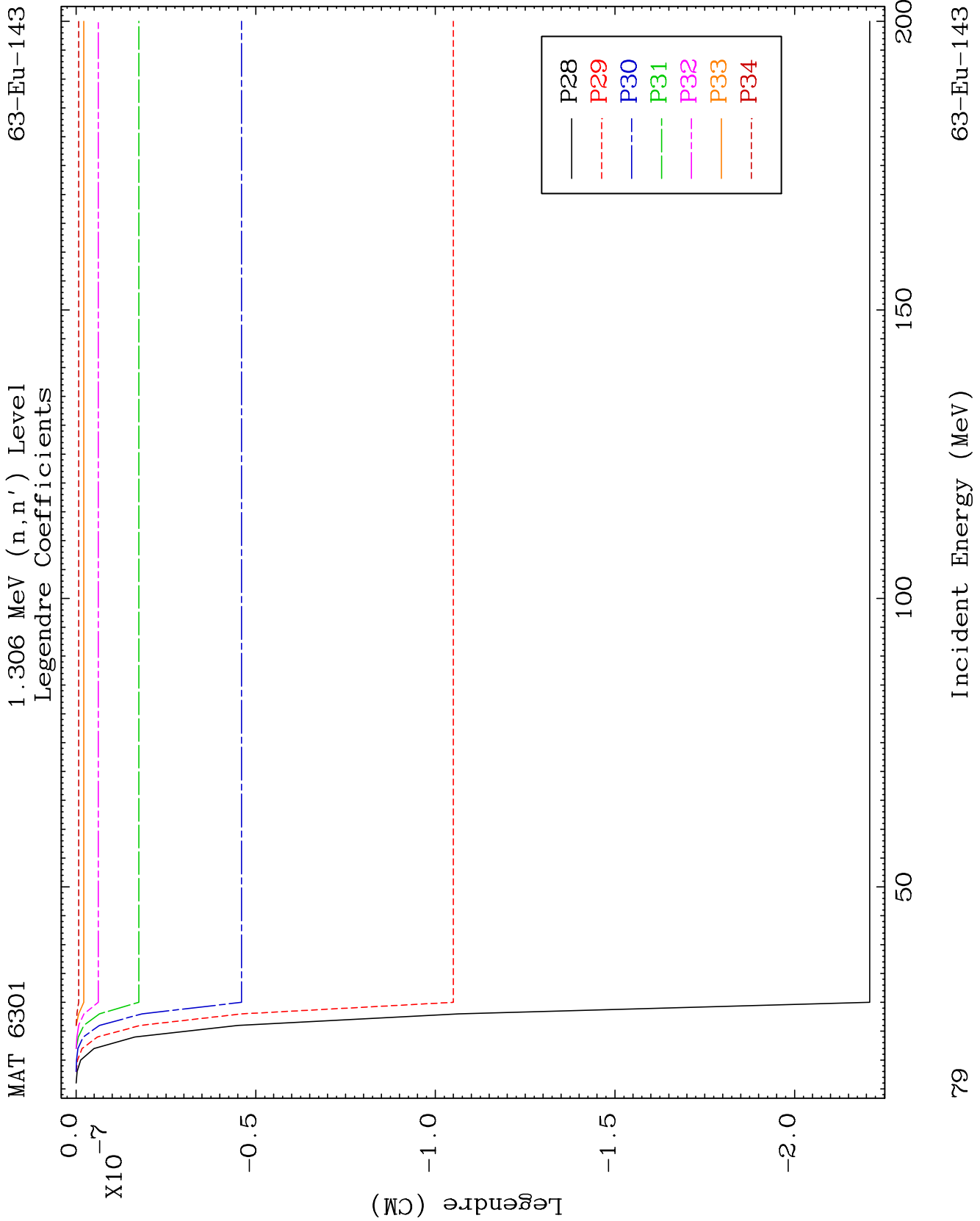
Incident Energy (MeV)

63-Eu-143

MAT 6301 1.306 MeV (n,n') Level 63-Eu-143



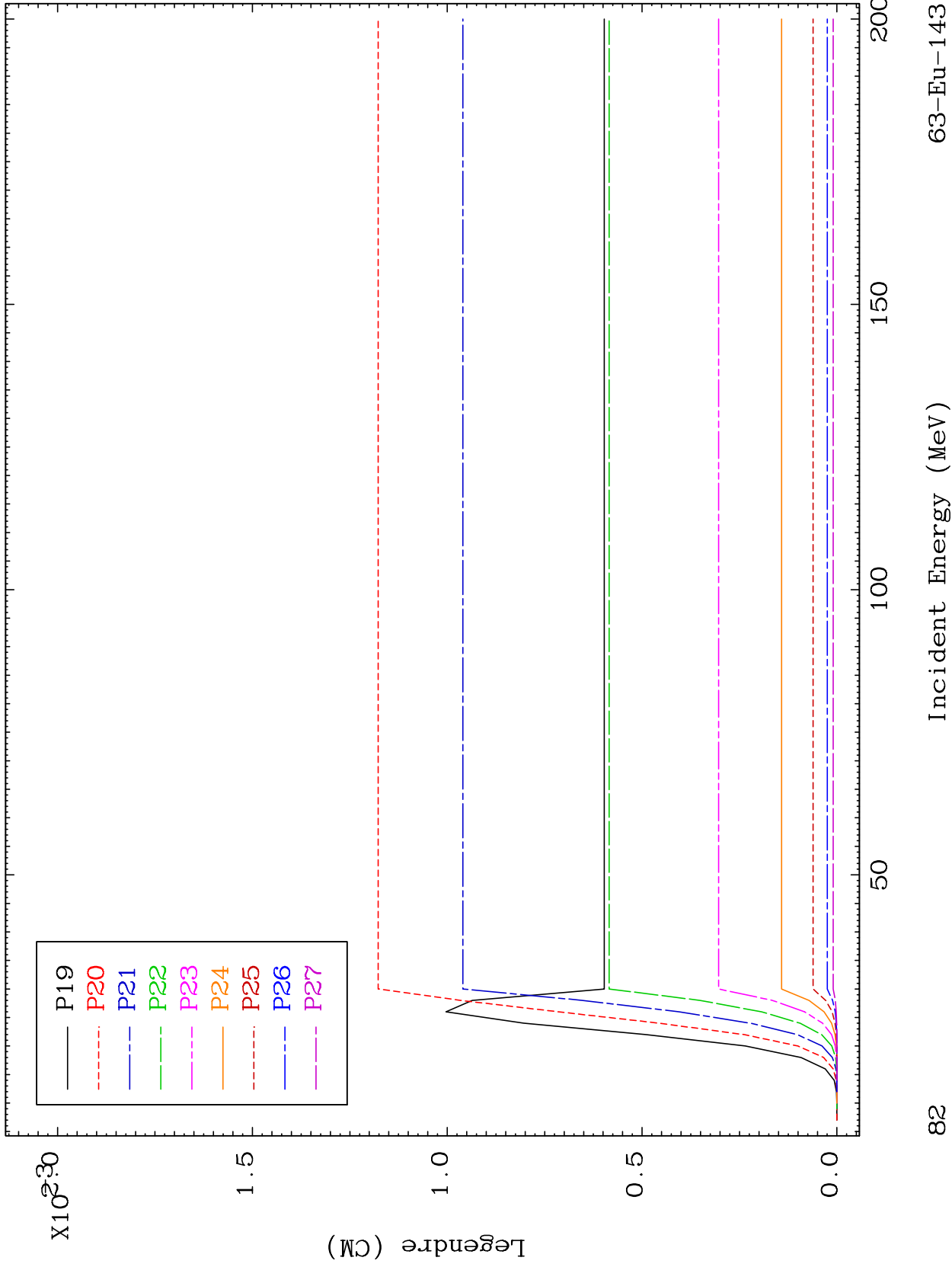
78 50 100 150 200 63-Eu-143



MAT 6301

1.331 MeV (n, n') Level
Legendre Coefficients

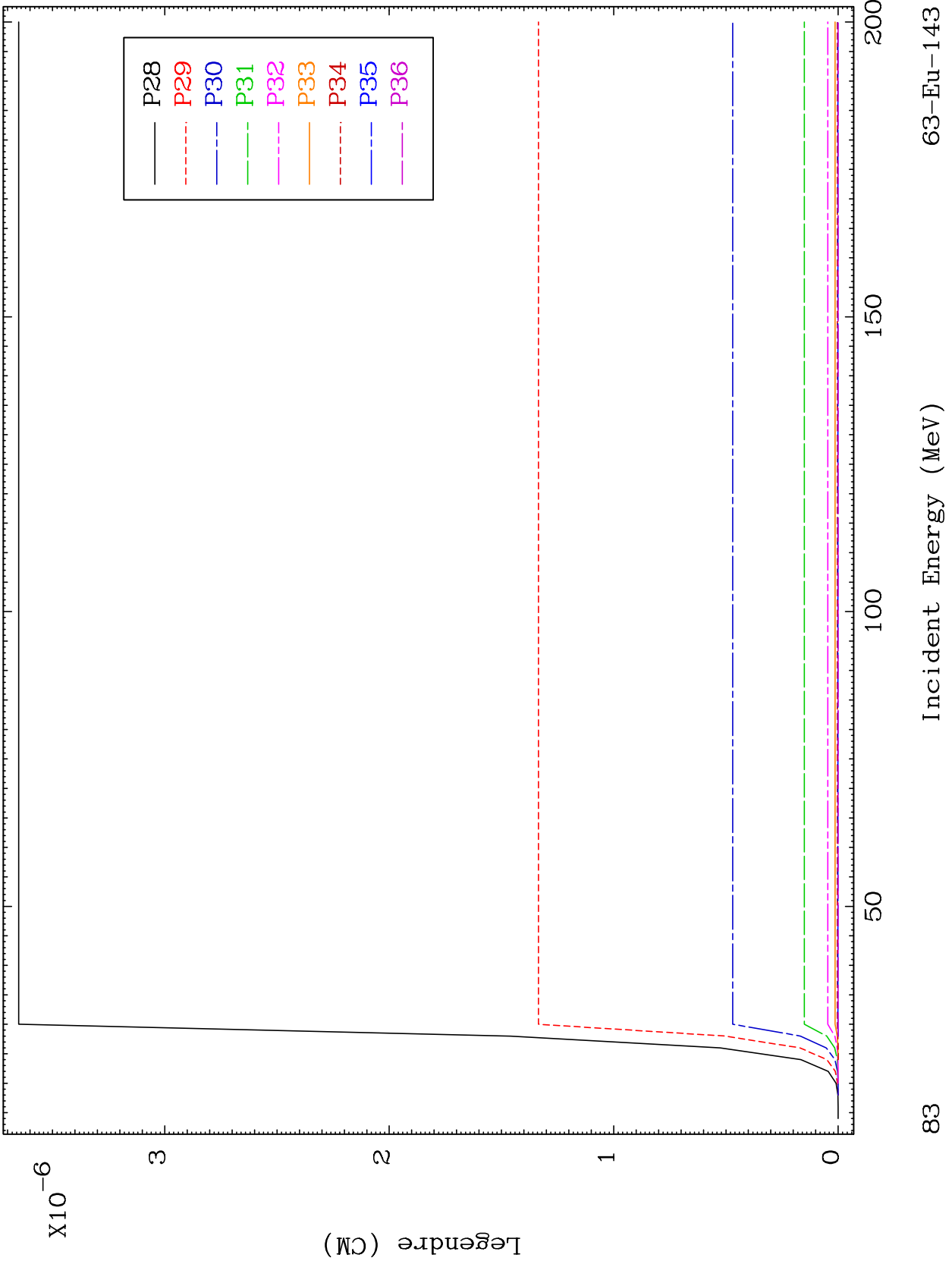
63-Eu-143



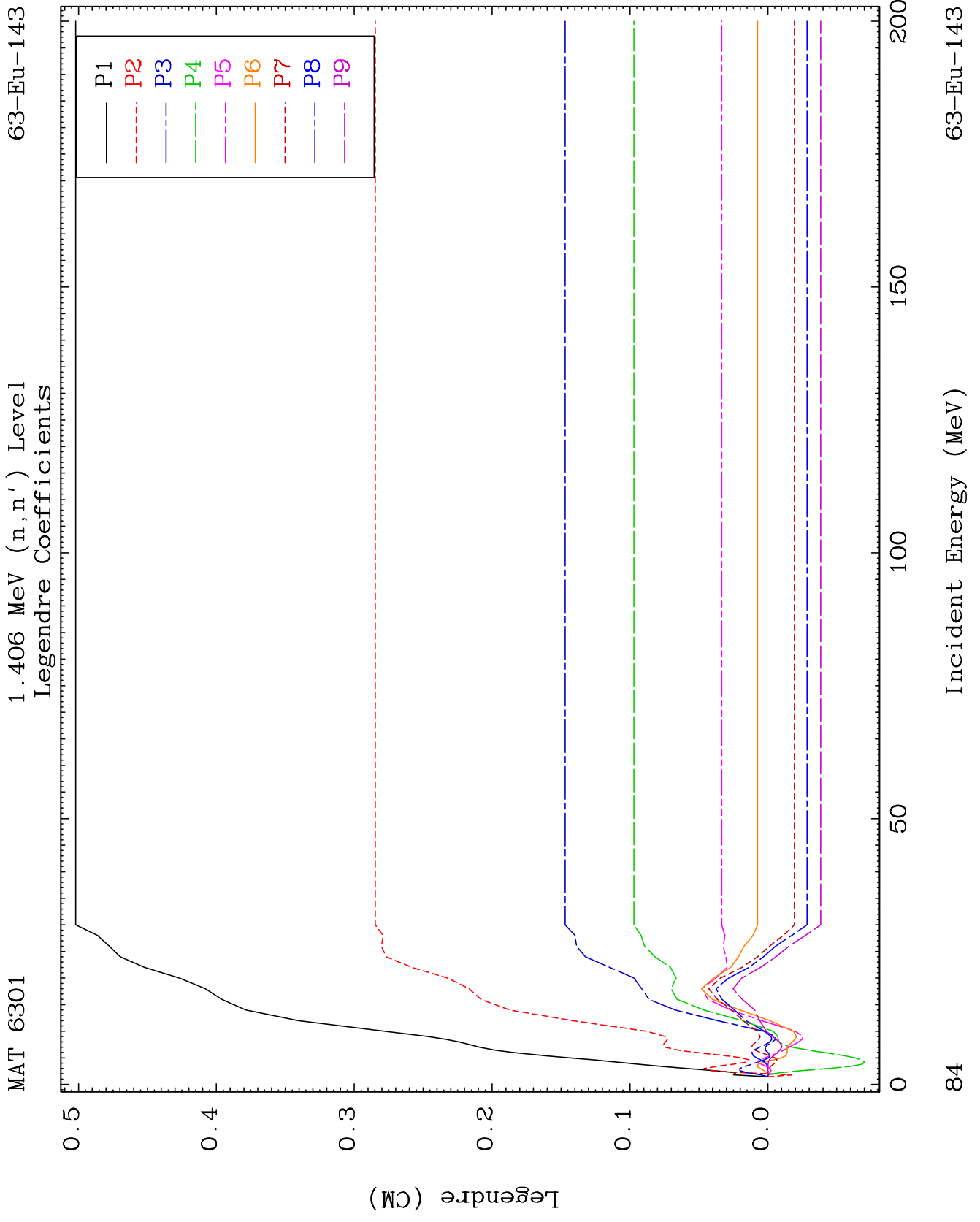
82

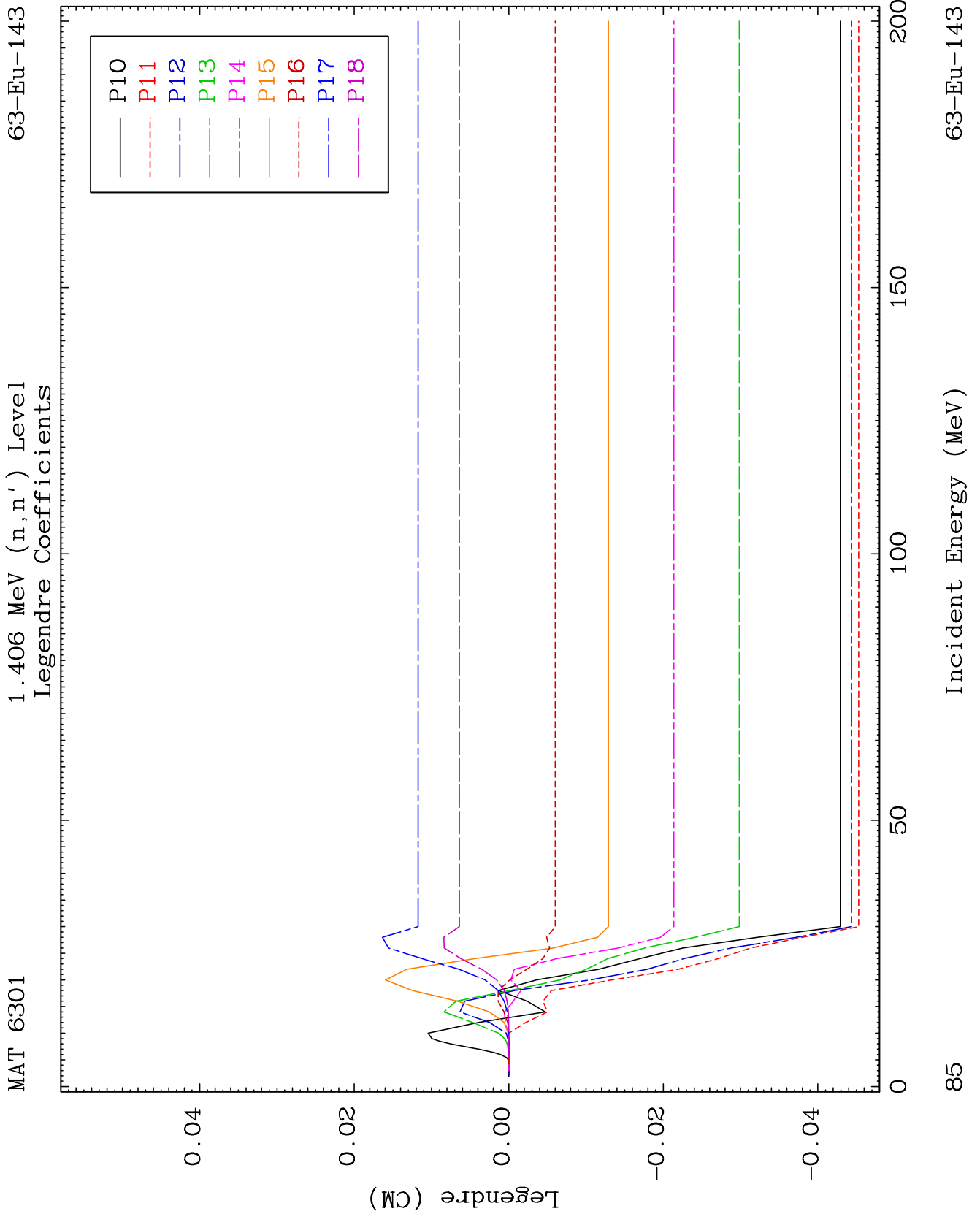
63-Eu-143

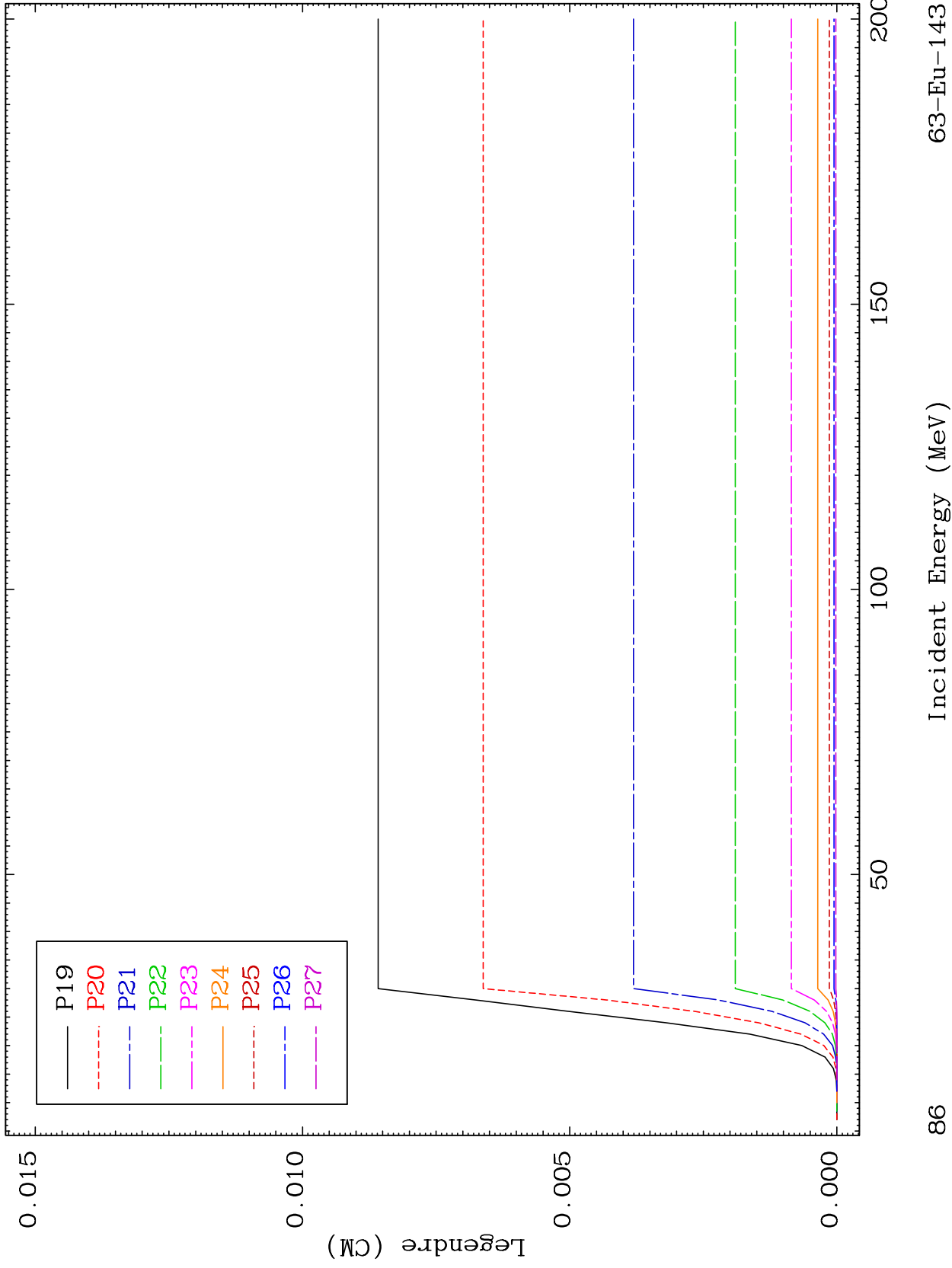
MAT 6301 1.331 MeV (n,n') Level Legendre Coefficients 63-Eu-143



83 63-Eu-143



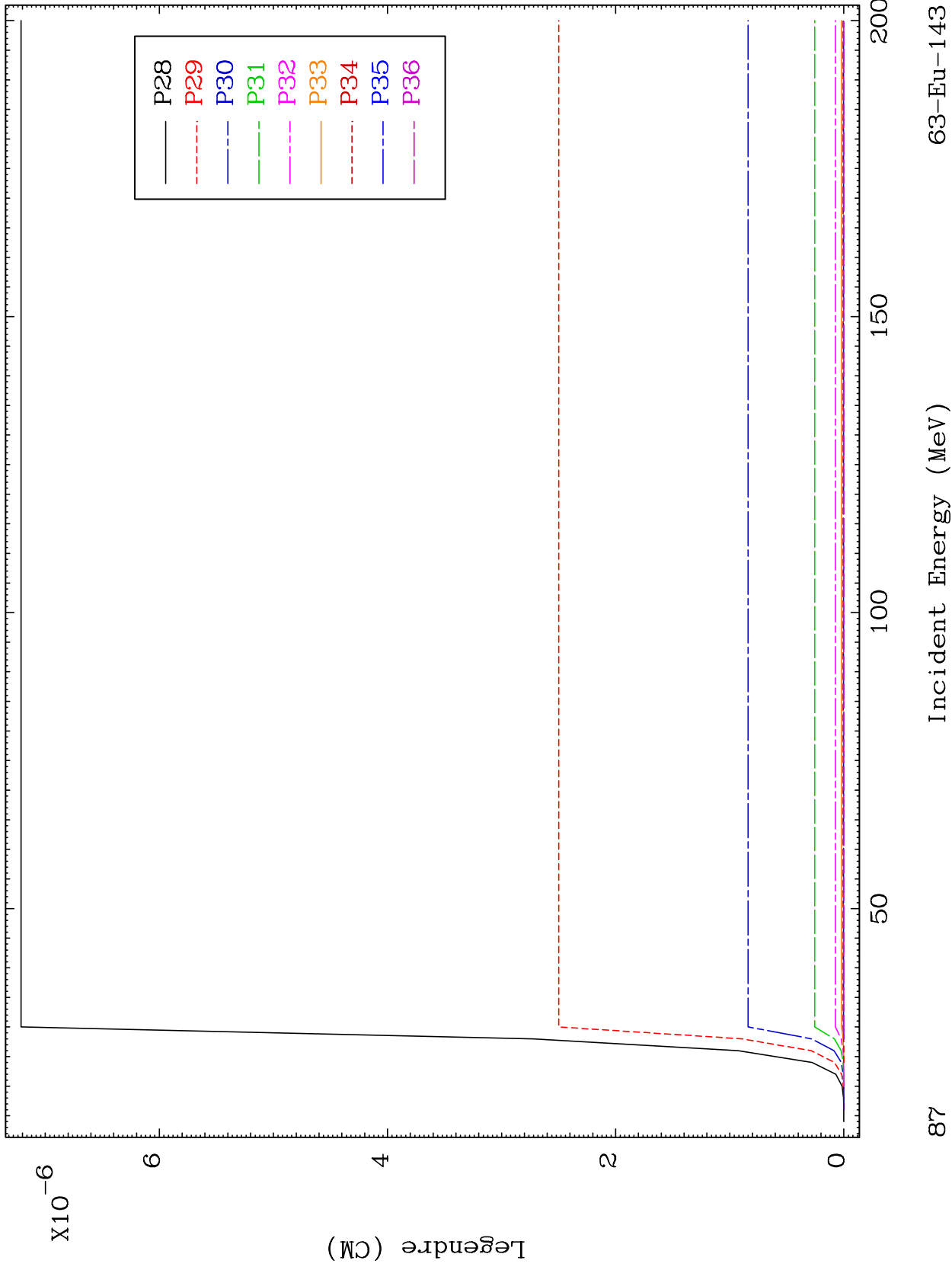


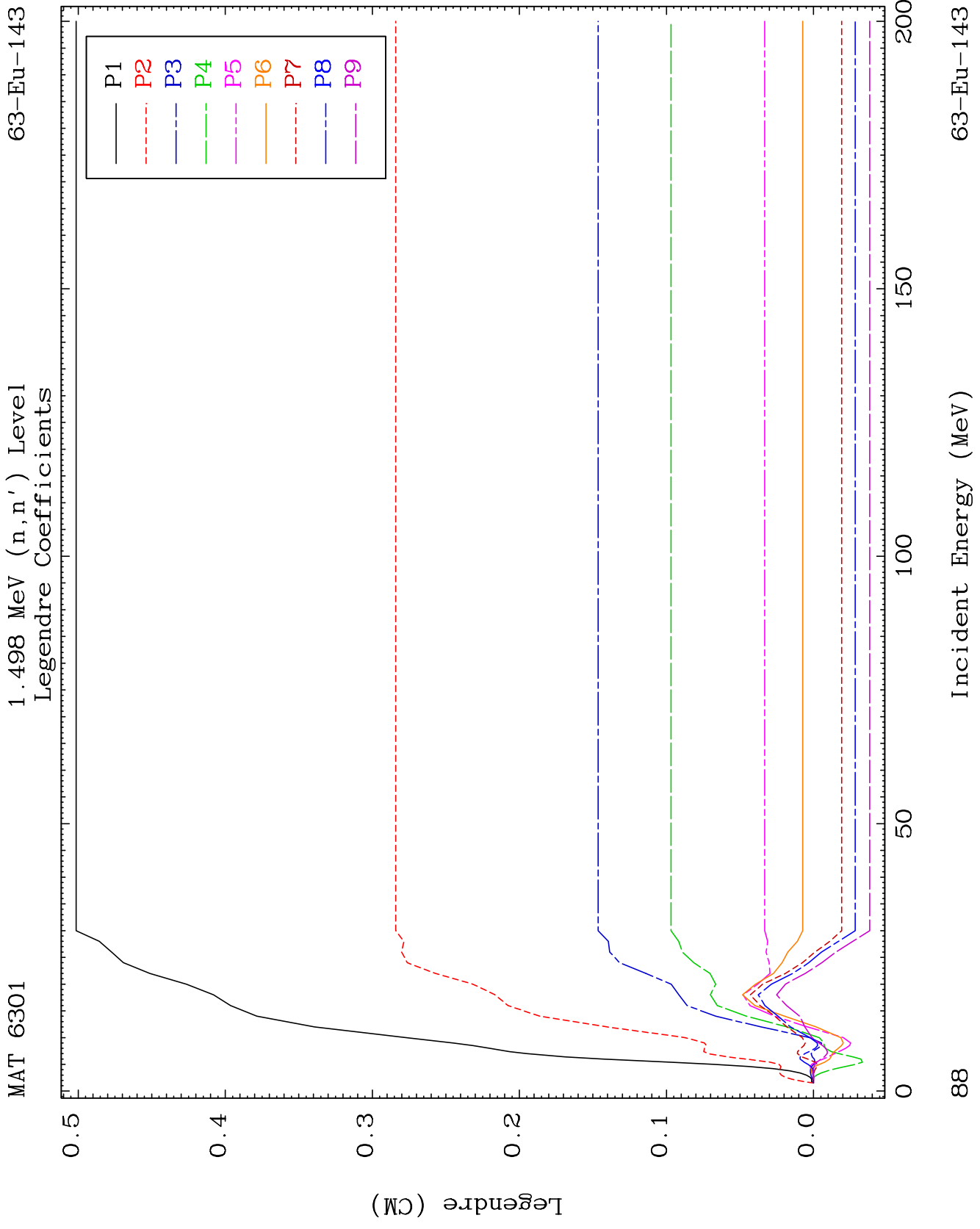


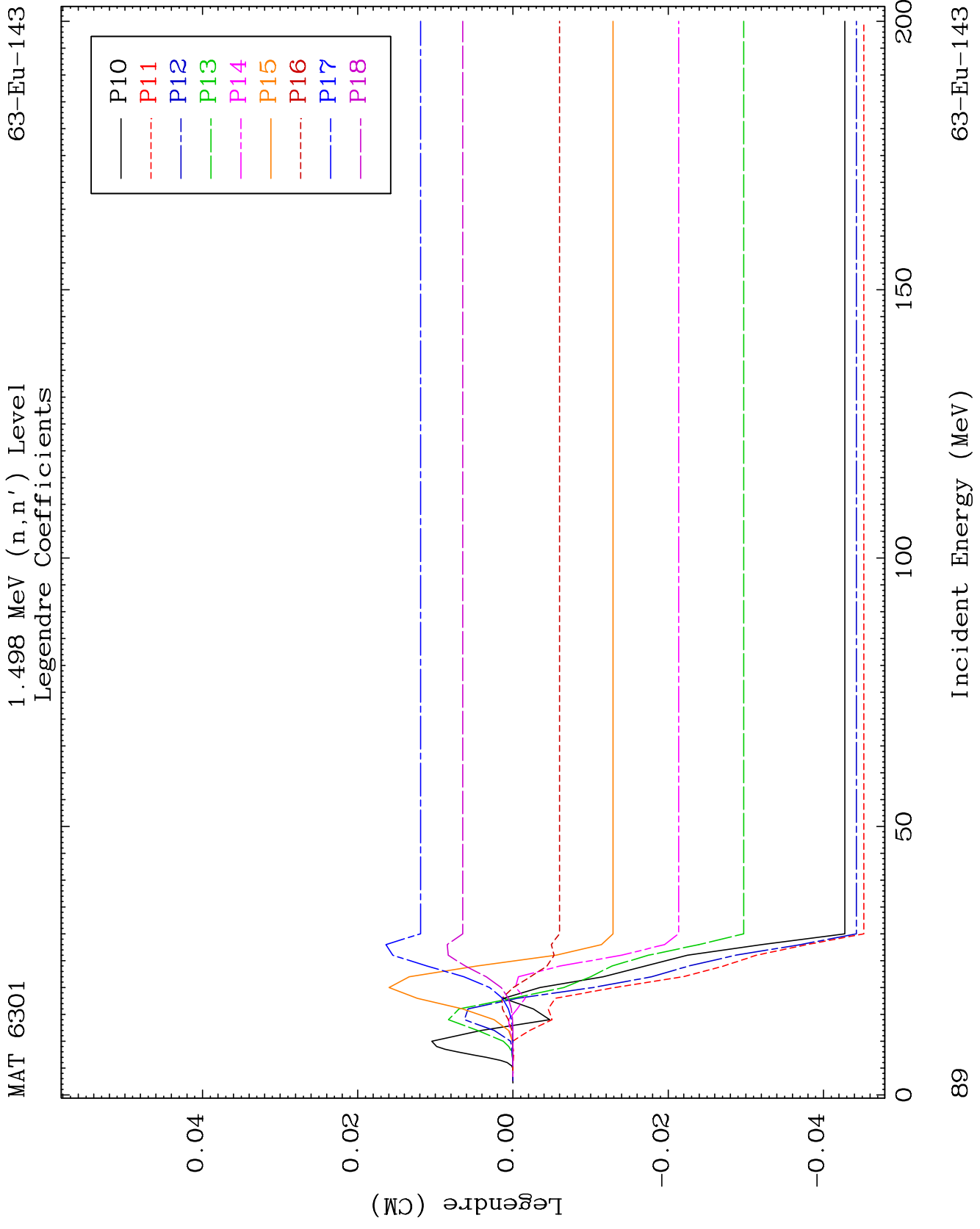
MAT 6301

1.406 MeV (n, n') Level
Legendre Coefficients

63-Eu-143



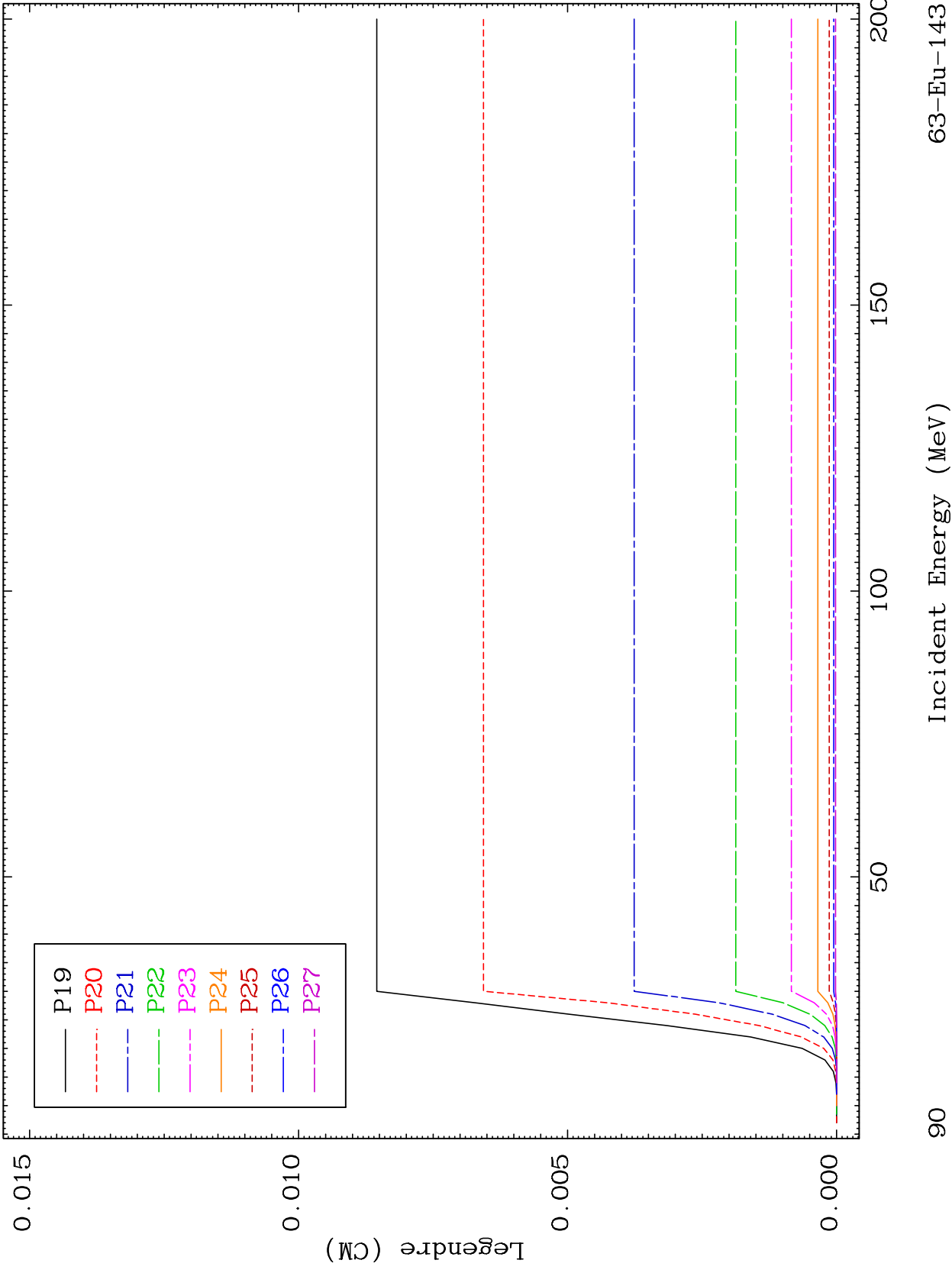




MAT 6301

1.498 MeV (n,n') Level
Legendre Coefficients

63-Eu-143

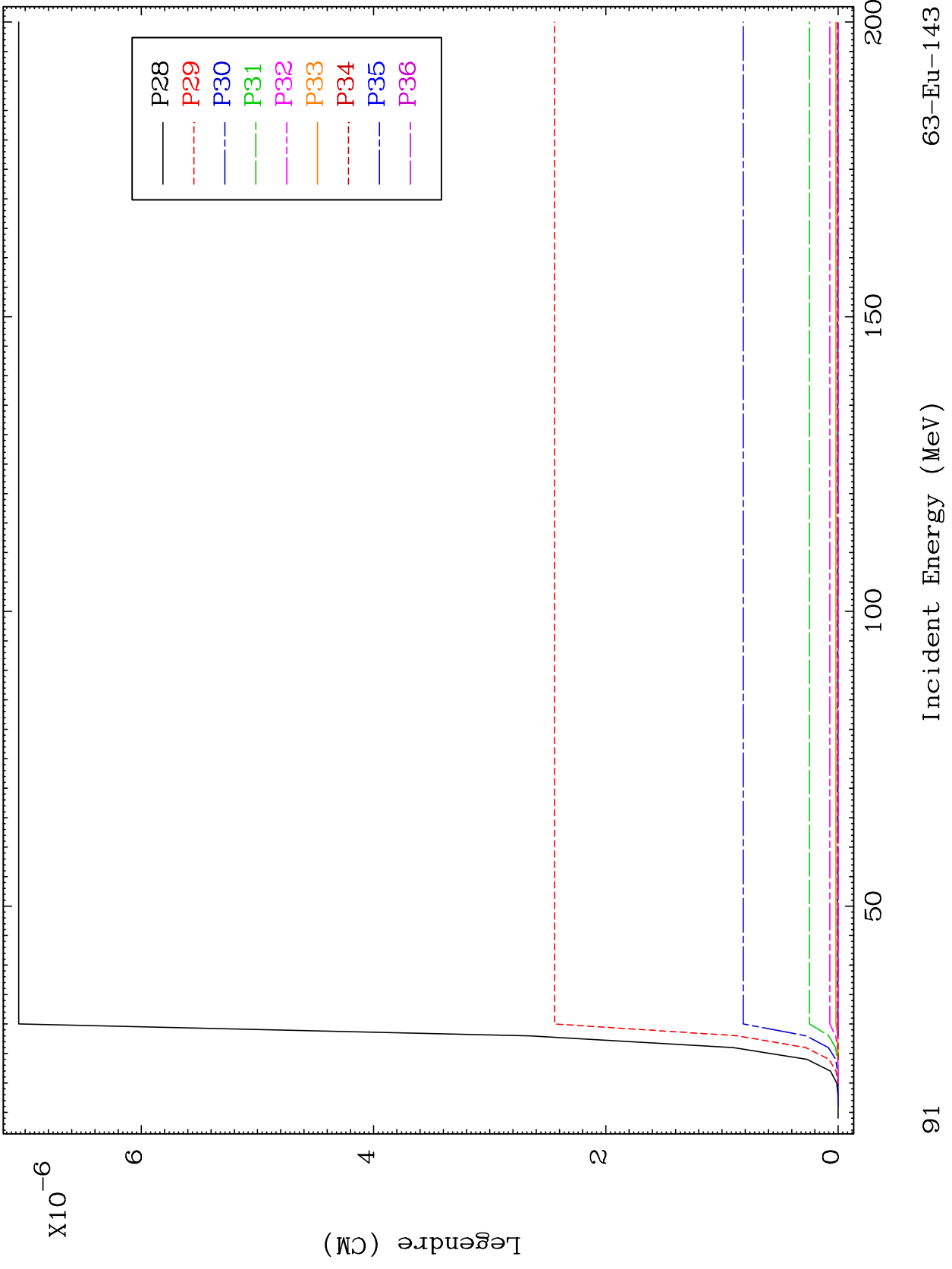


63-Eu-143

Incident Energy (MeV)

90

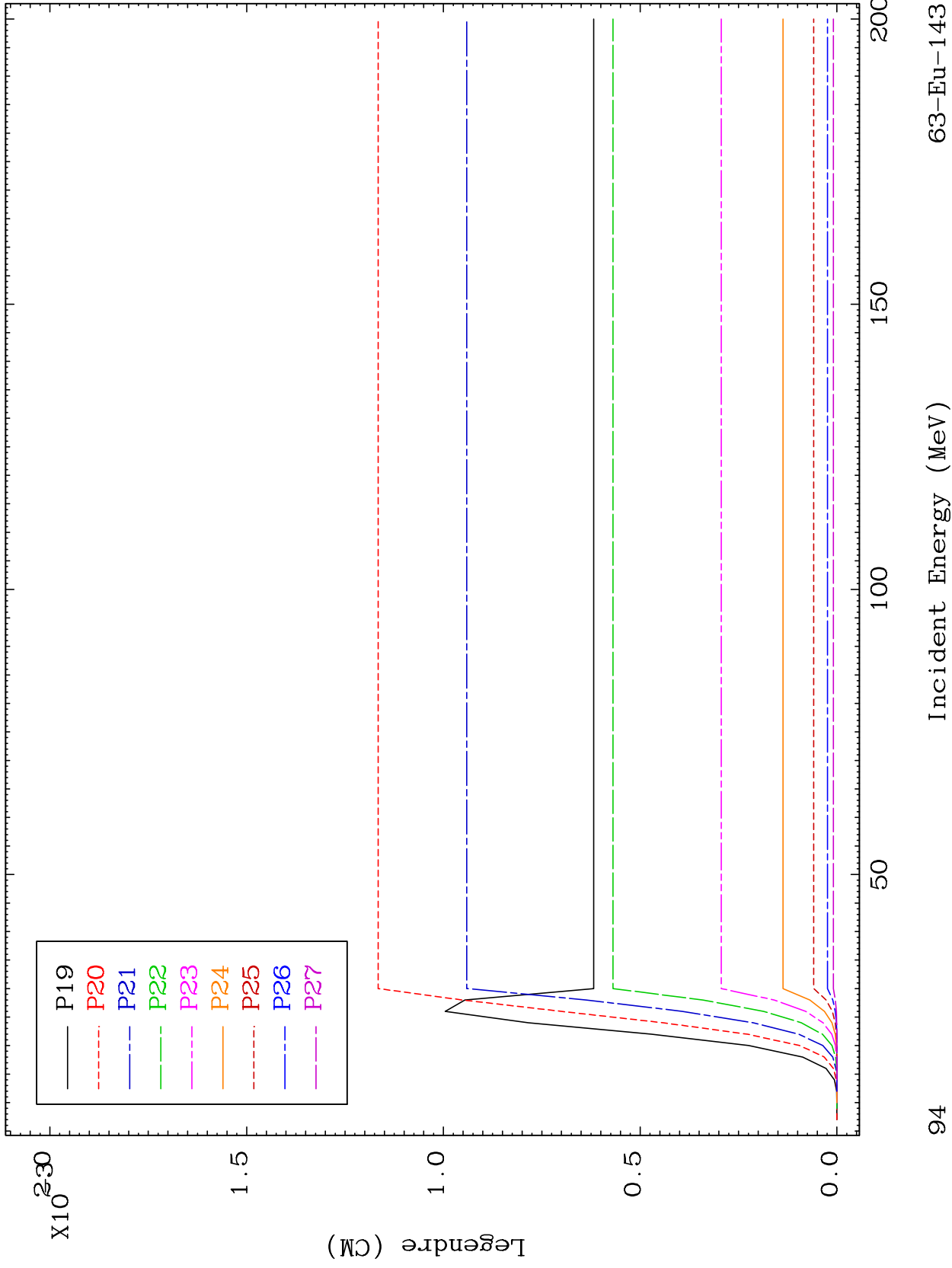
MAT 6301 1.498 MeV (n,n') Level Legendre Coefficients 63-Eu-143



MAT 6301

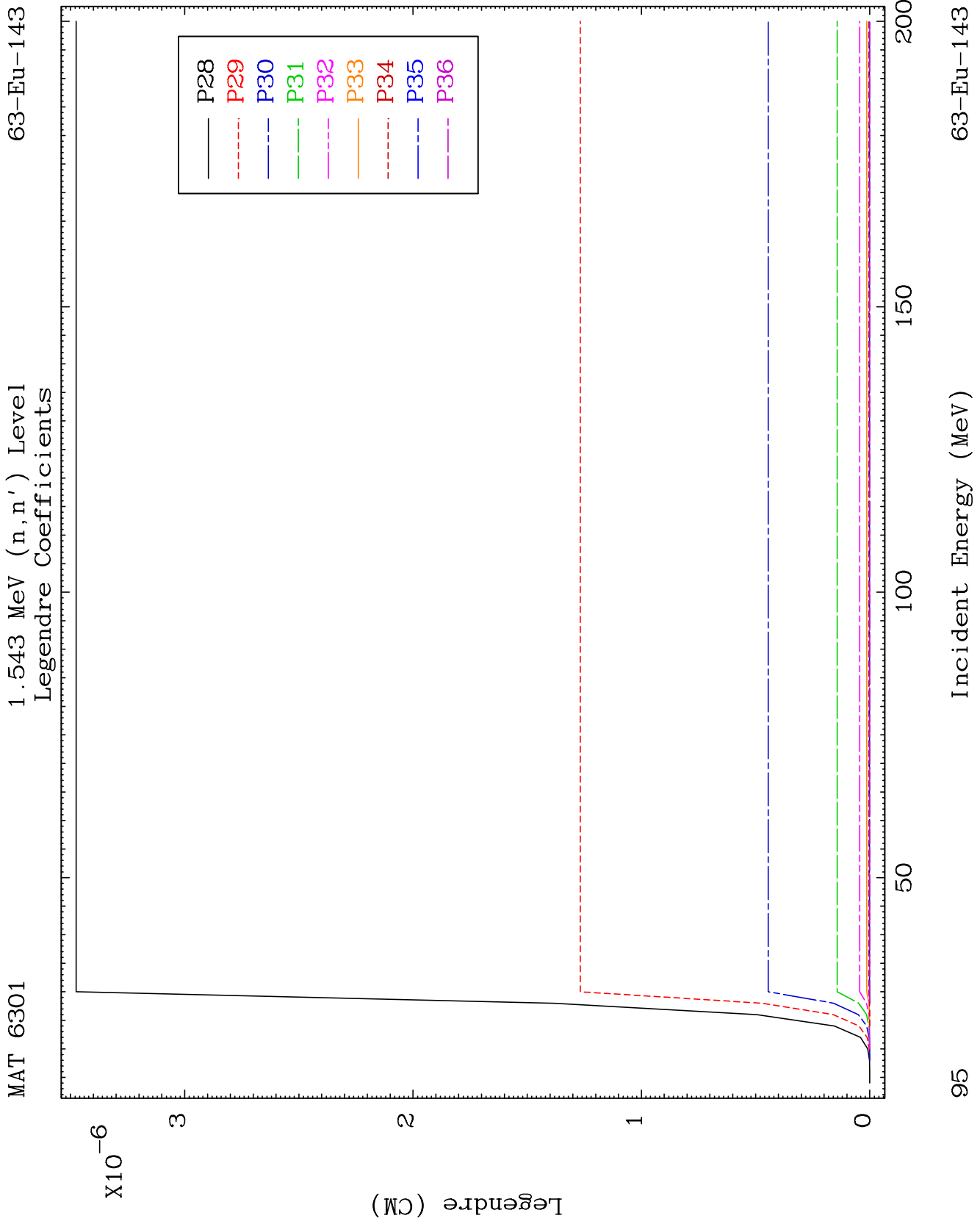
1.543 MeV (n, n') Level
Legendre Coefficients

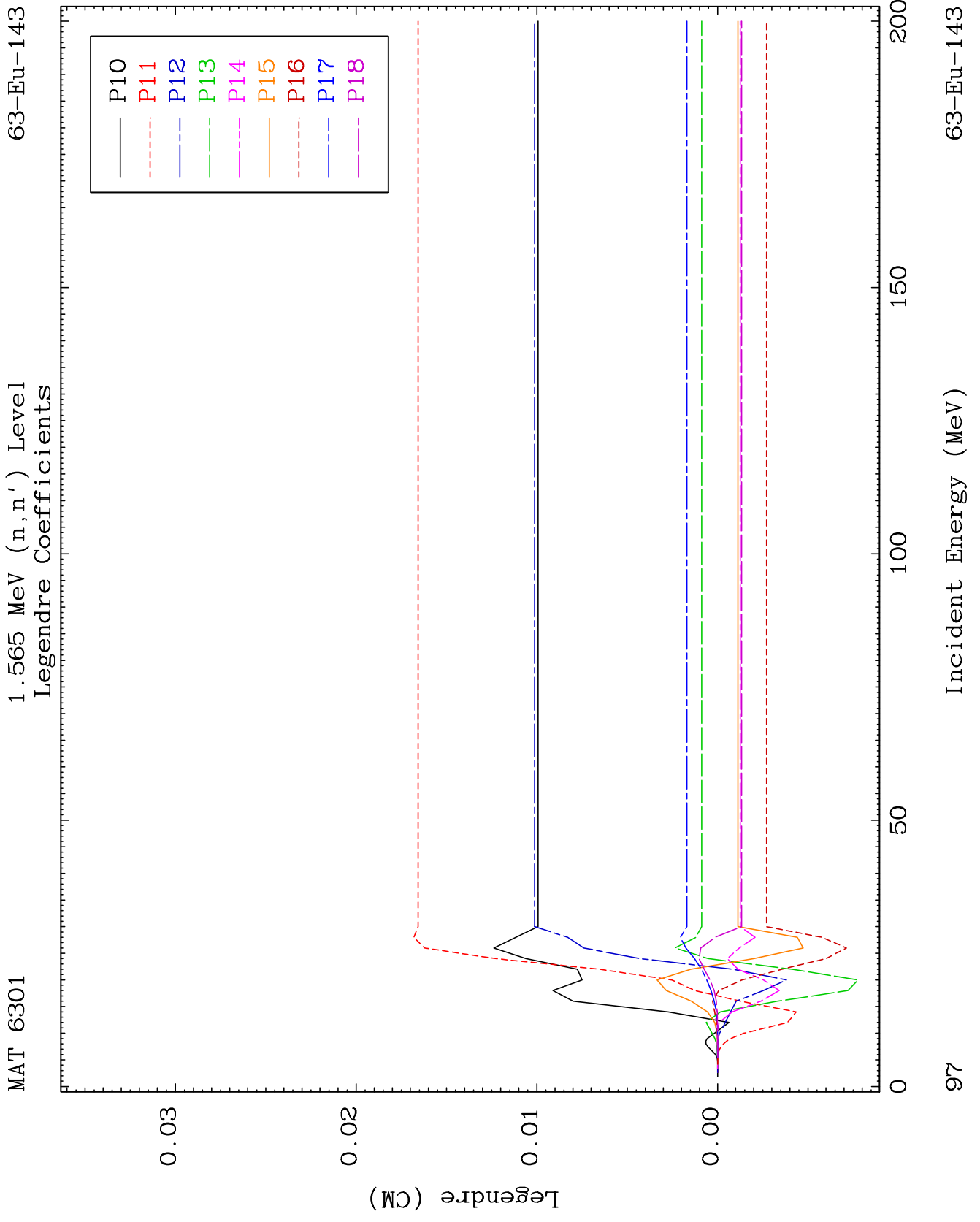
63-Eu-143

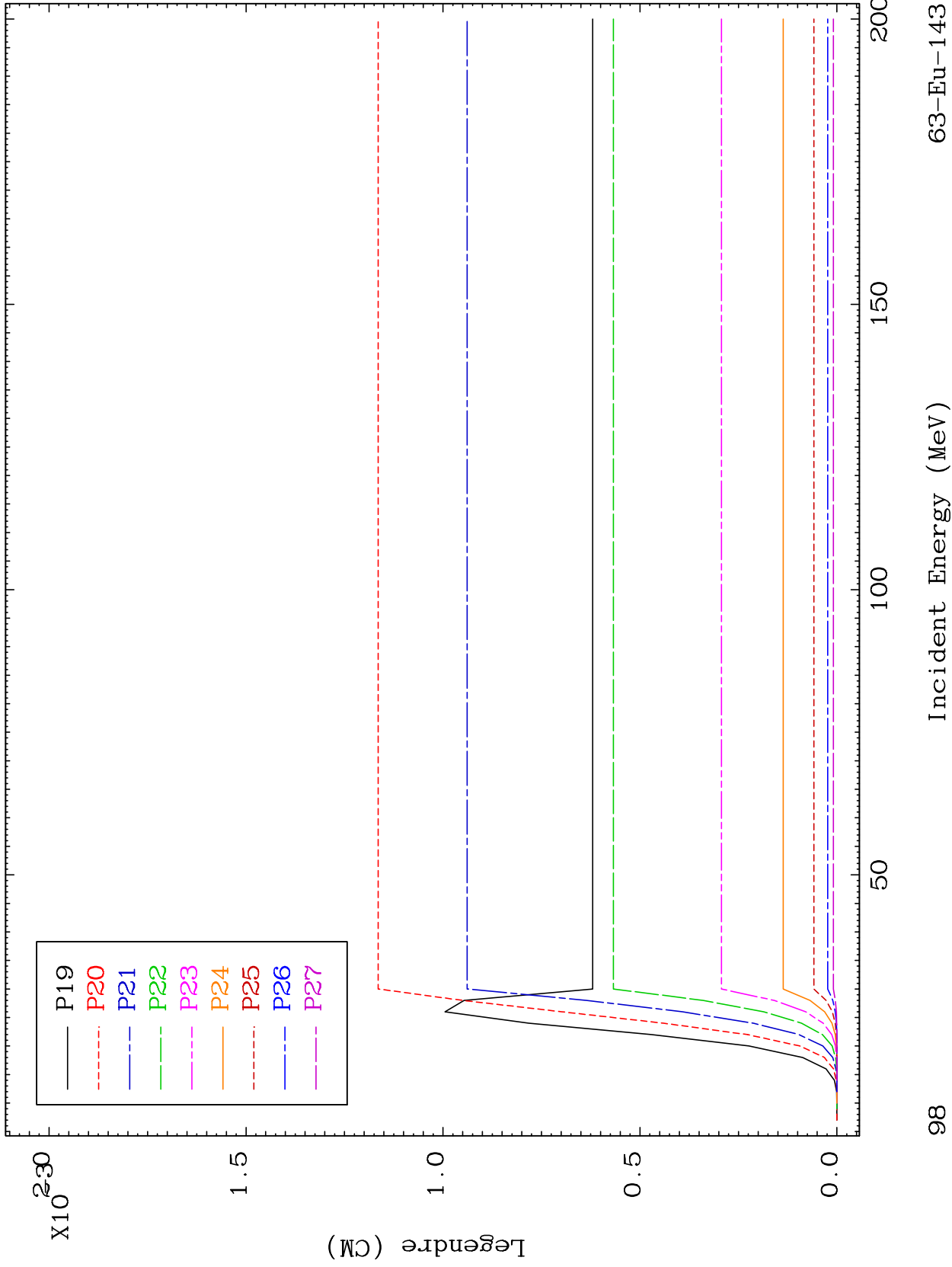


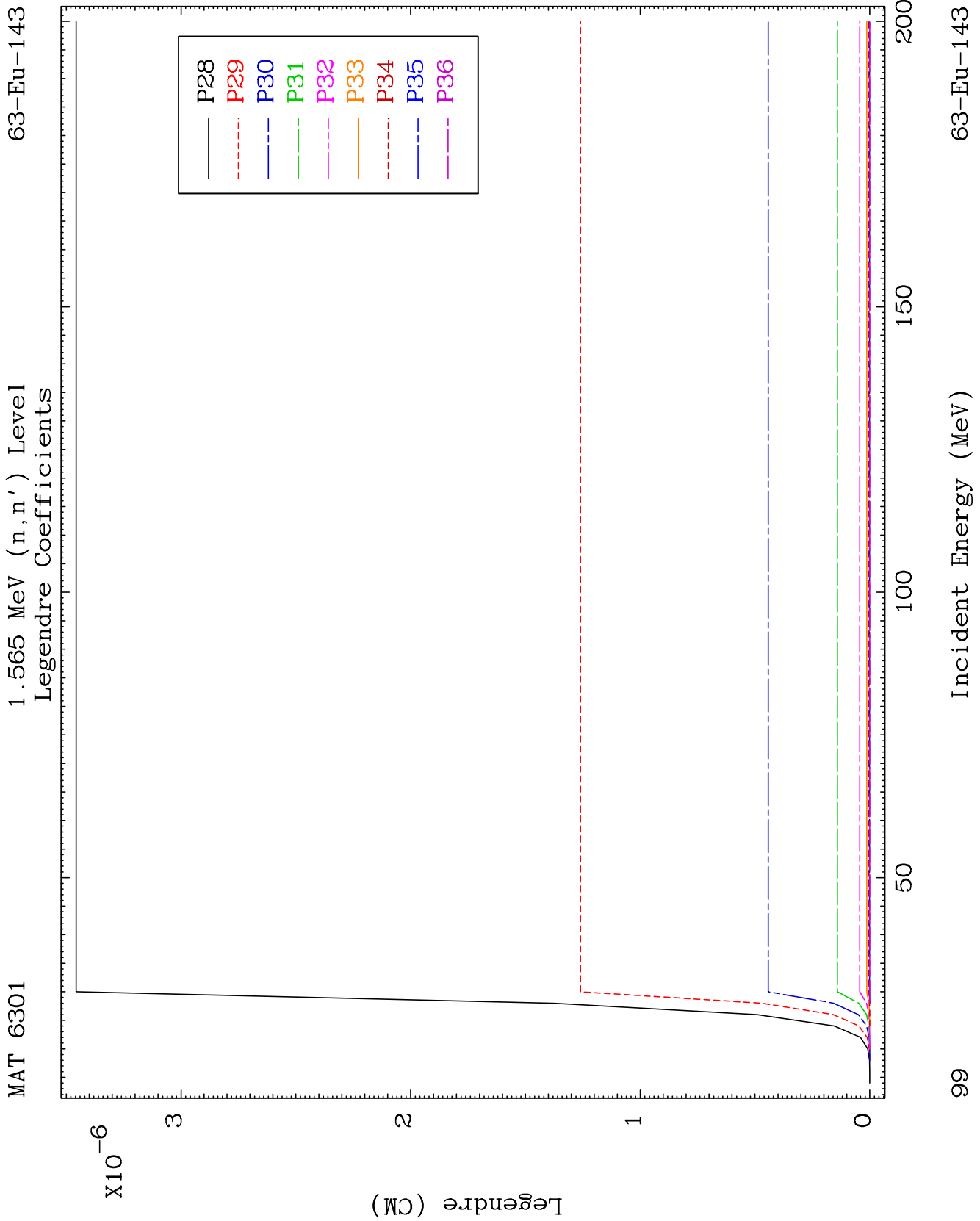
94

63-Eu-143





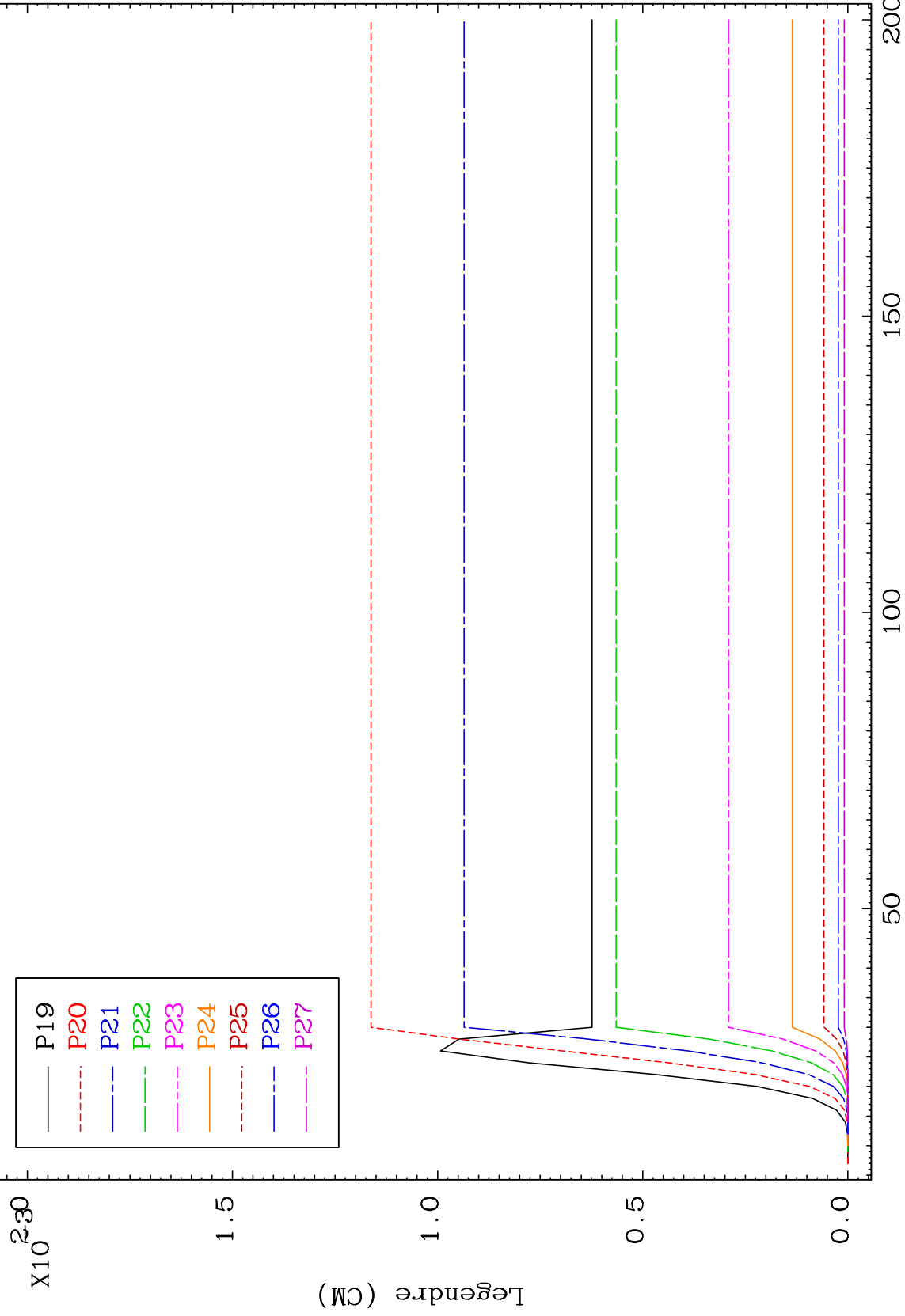




MAT 6301

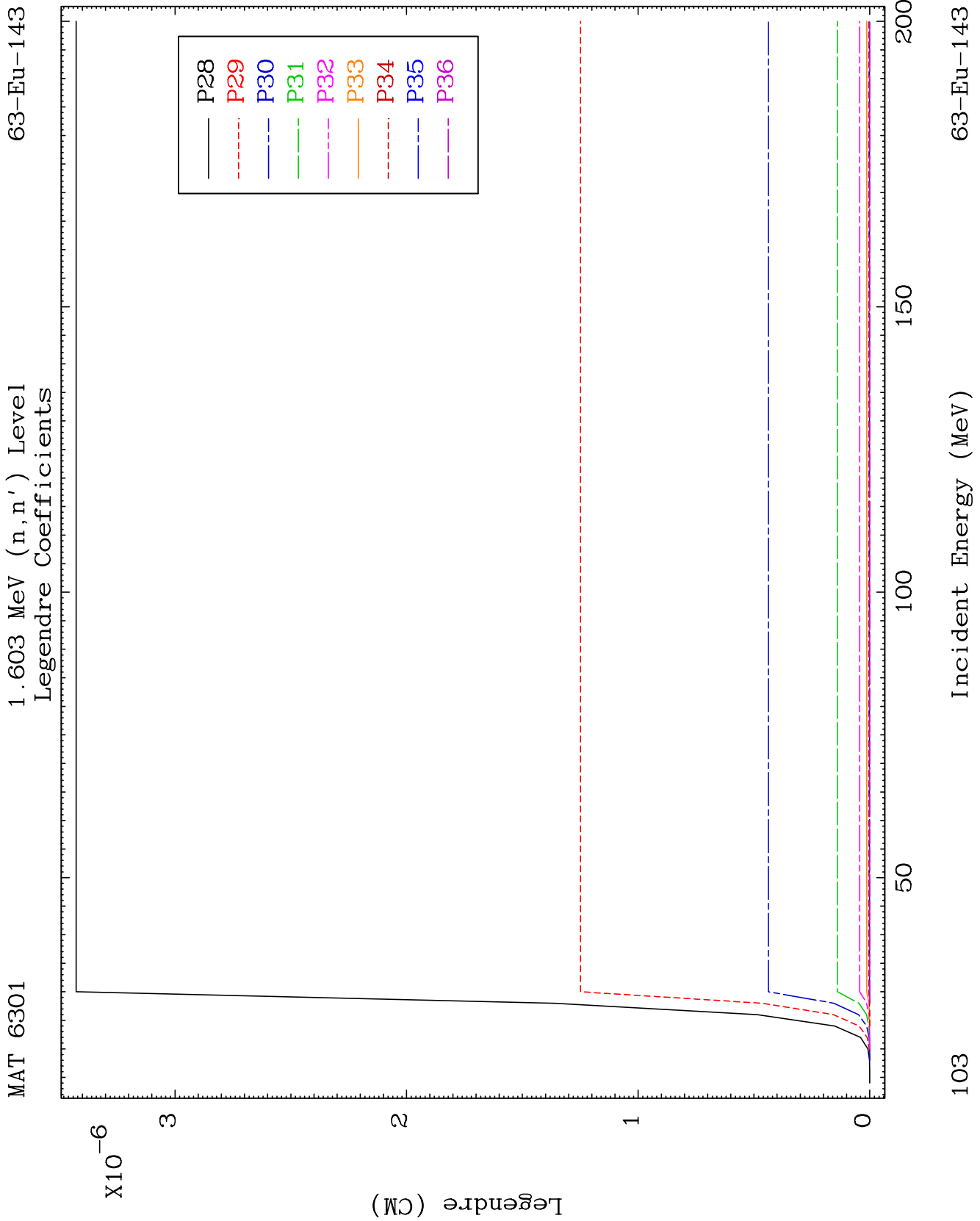
1.603 MeV (n, n') Level
Legendre Coefficients

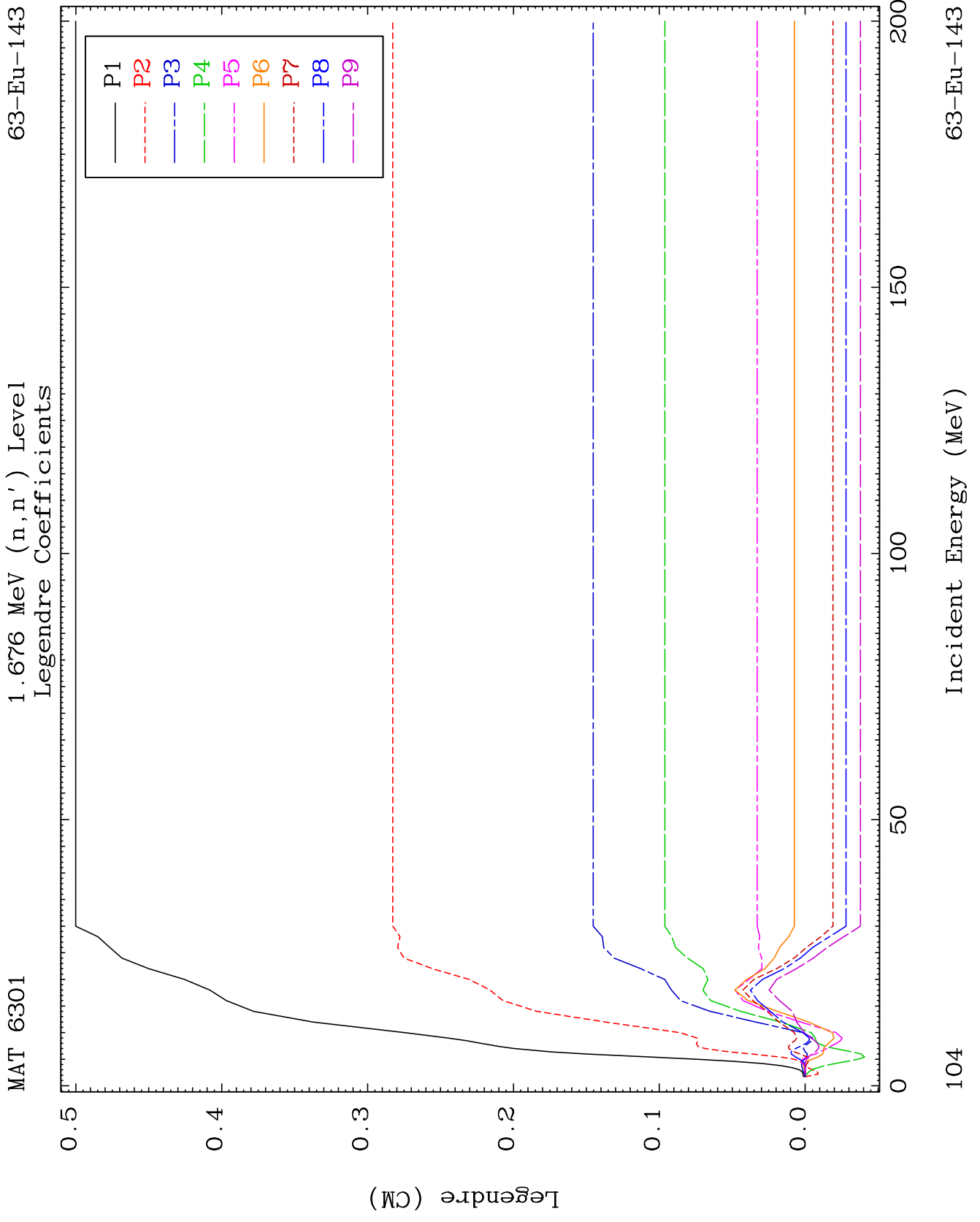
63-Eu-143

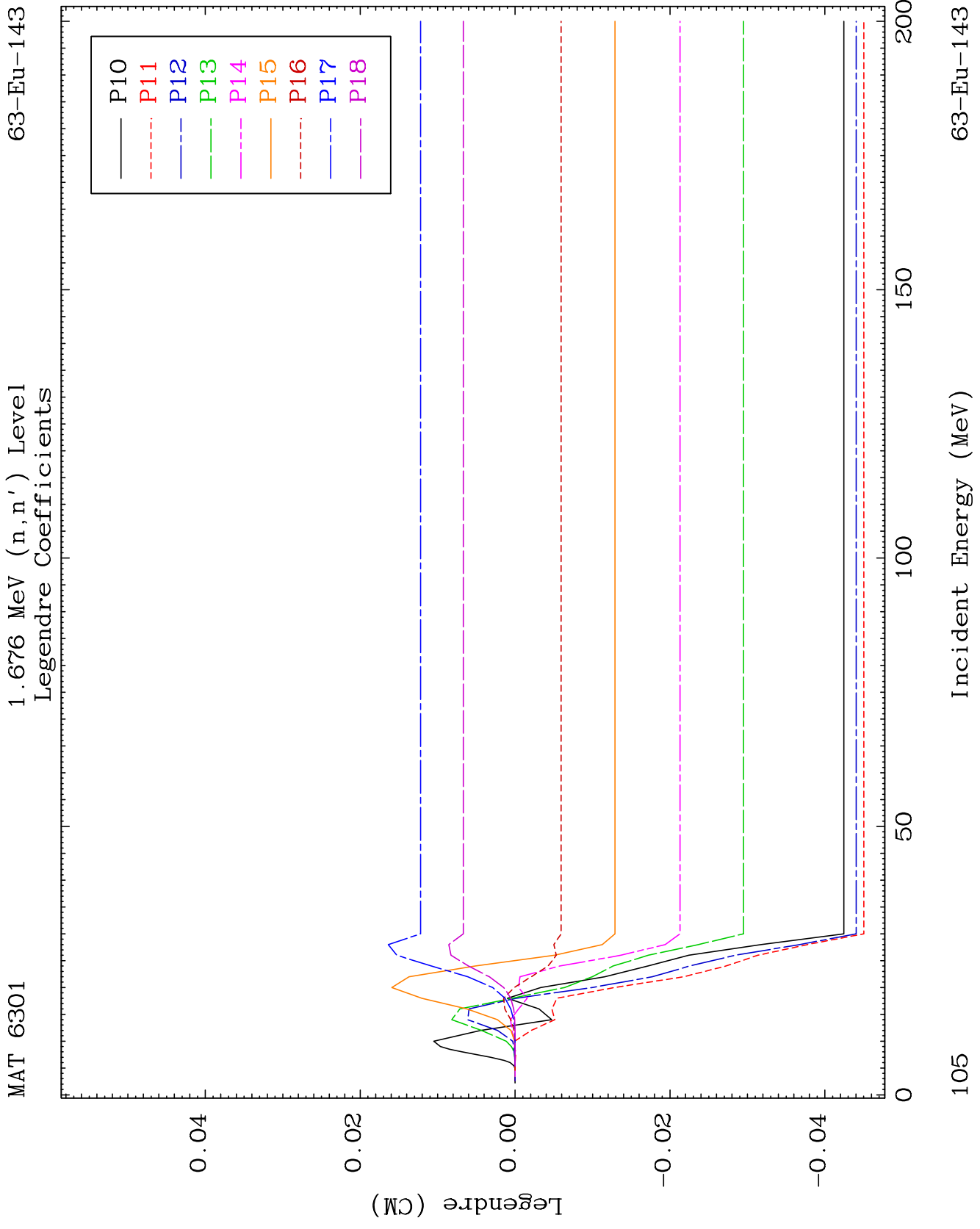


102

63-Eu-143



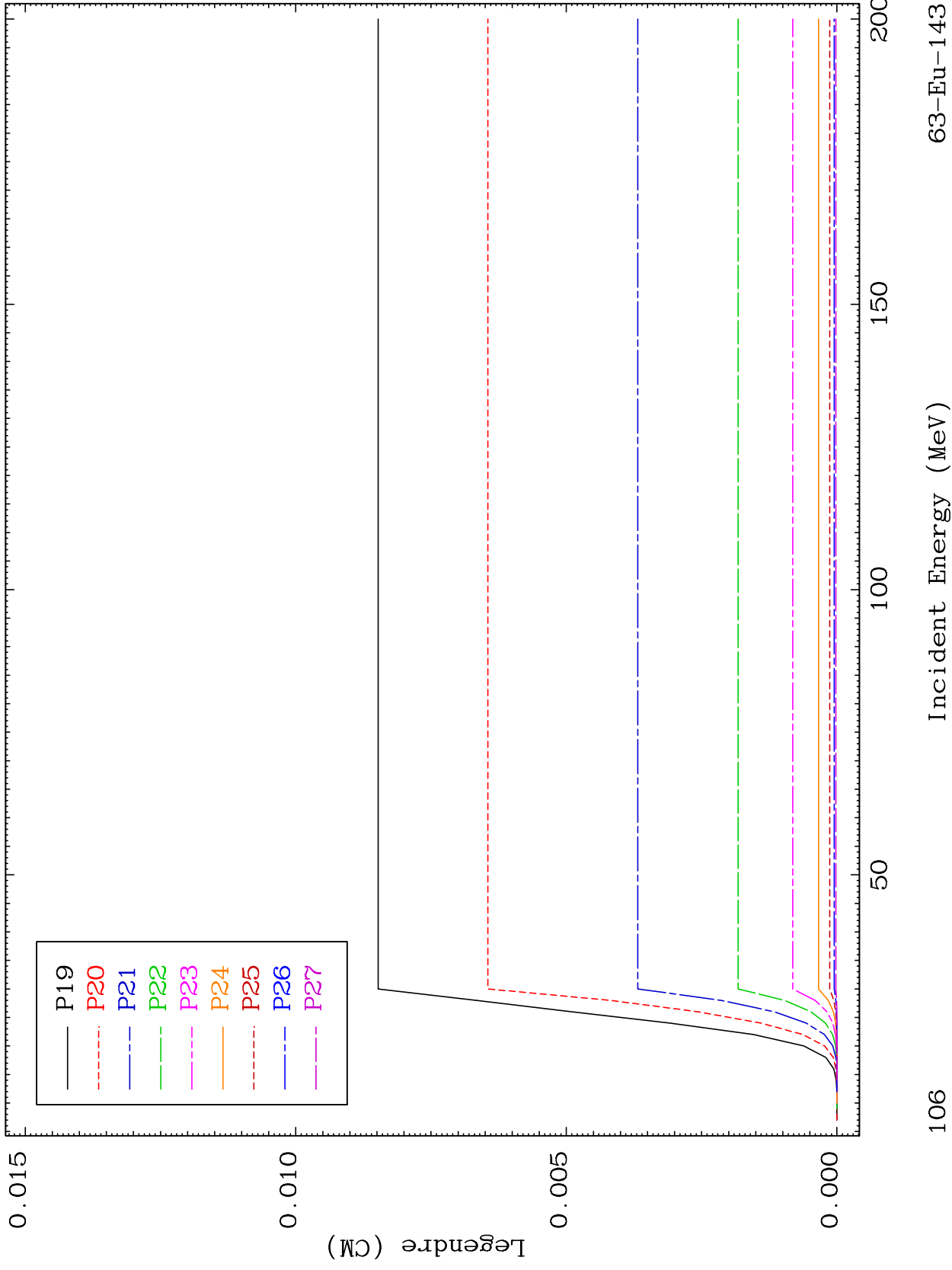




MAT 6301

1.676 MeV (n,n') Level
Legendre Coefficients

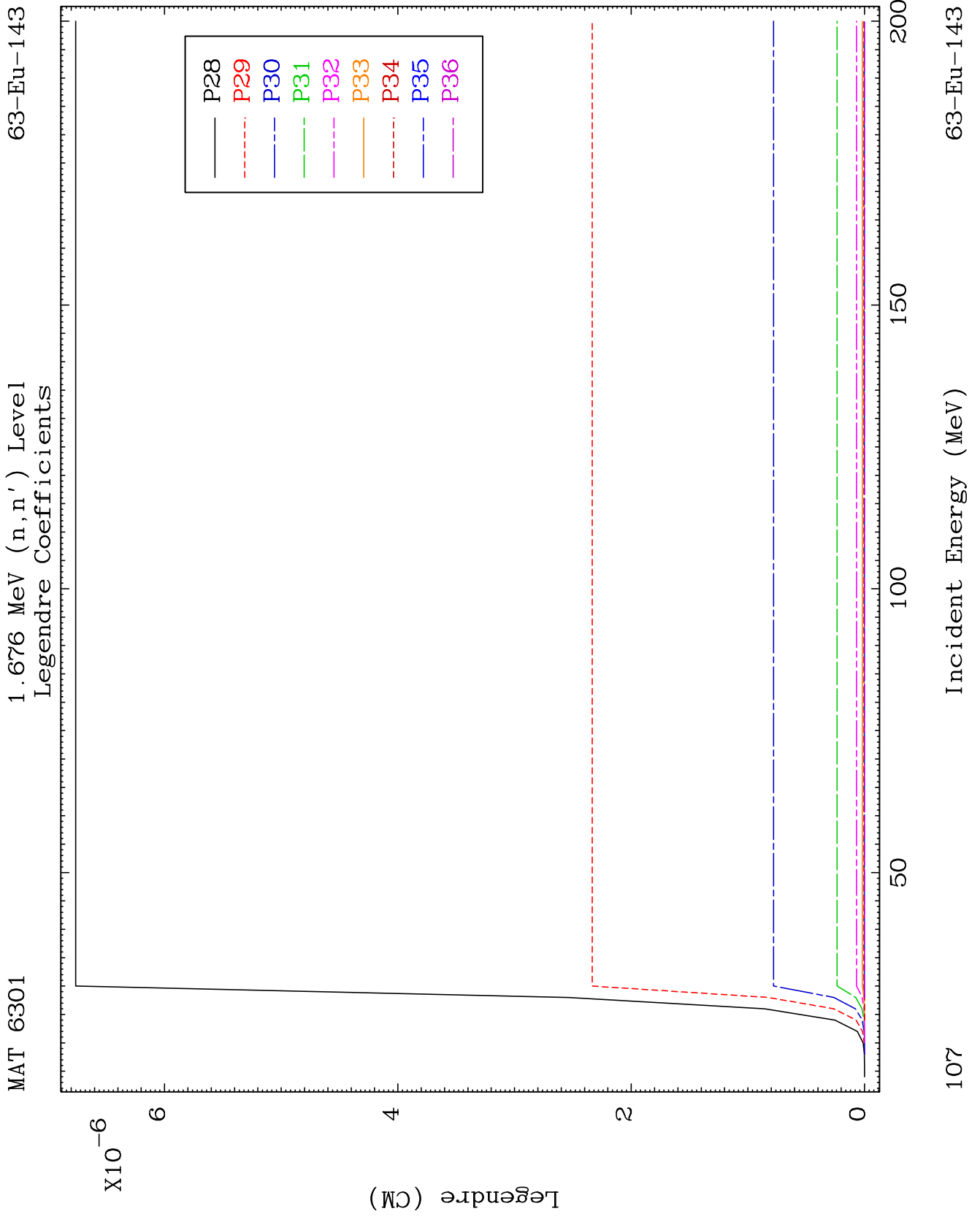
63-Eu-143

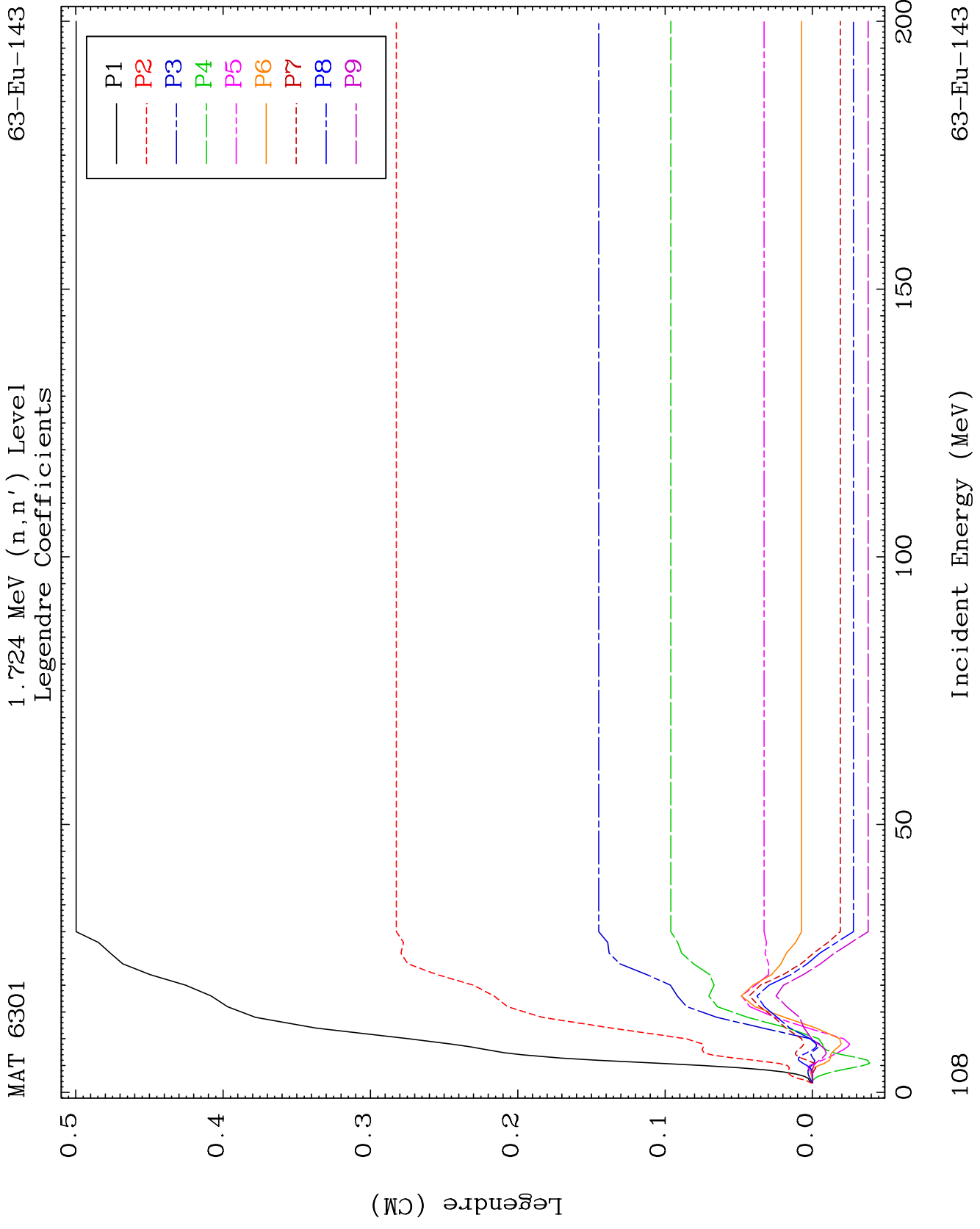


106

Incident Energy (MeV)

63-Eu-143

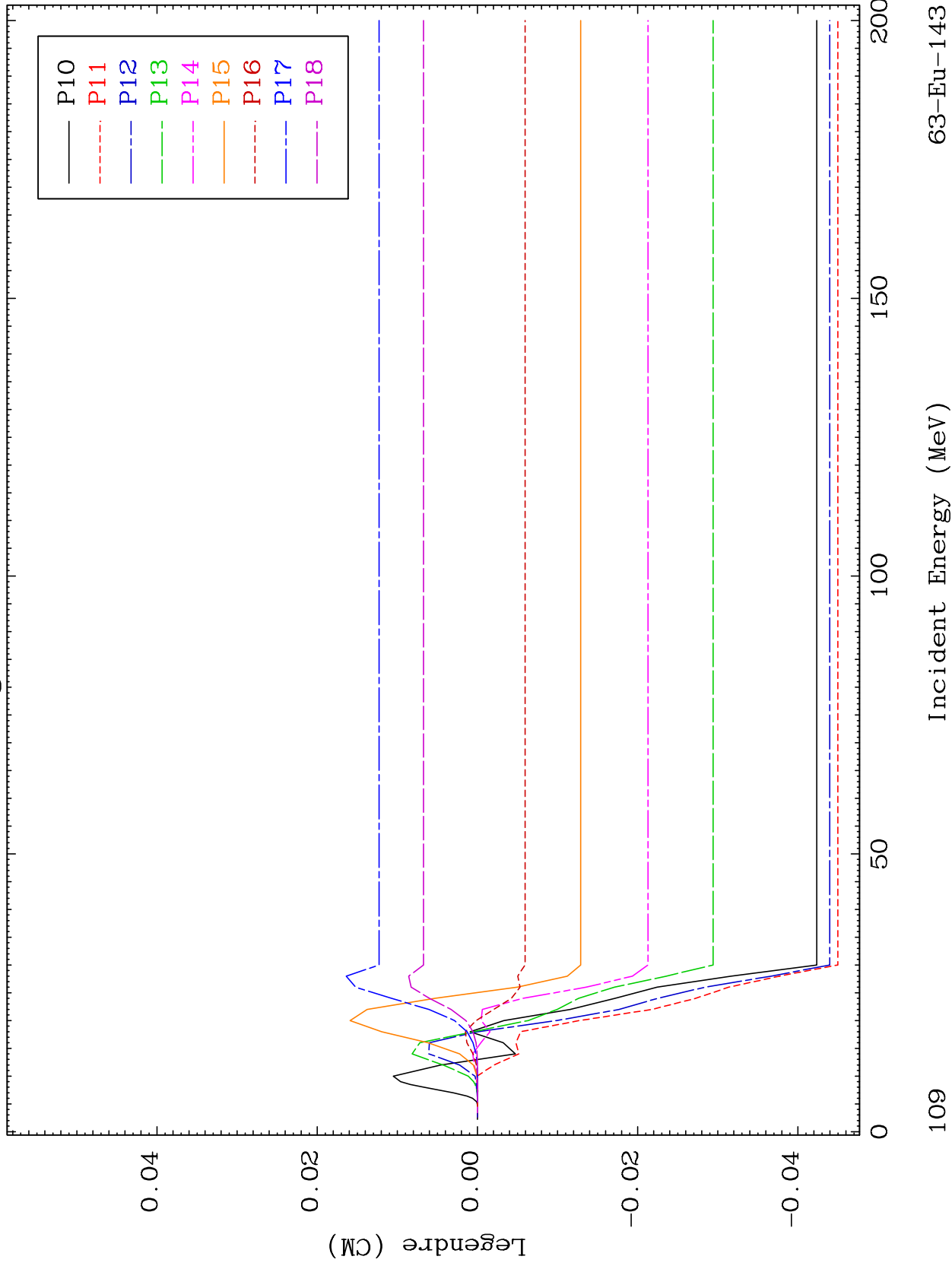




MAT 6301

1.724 MeV (n,n') Level
Legendre Coefficients

63-Eu-143



63-Eu-143

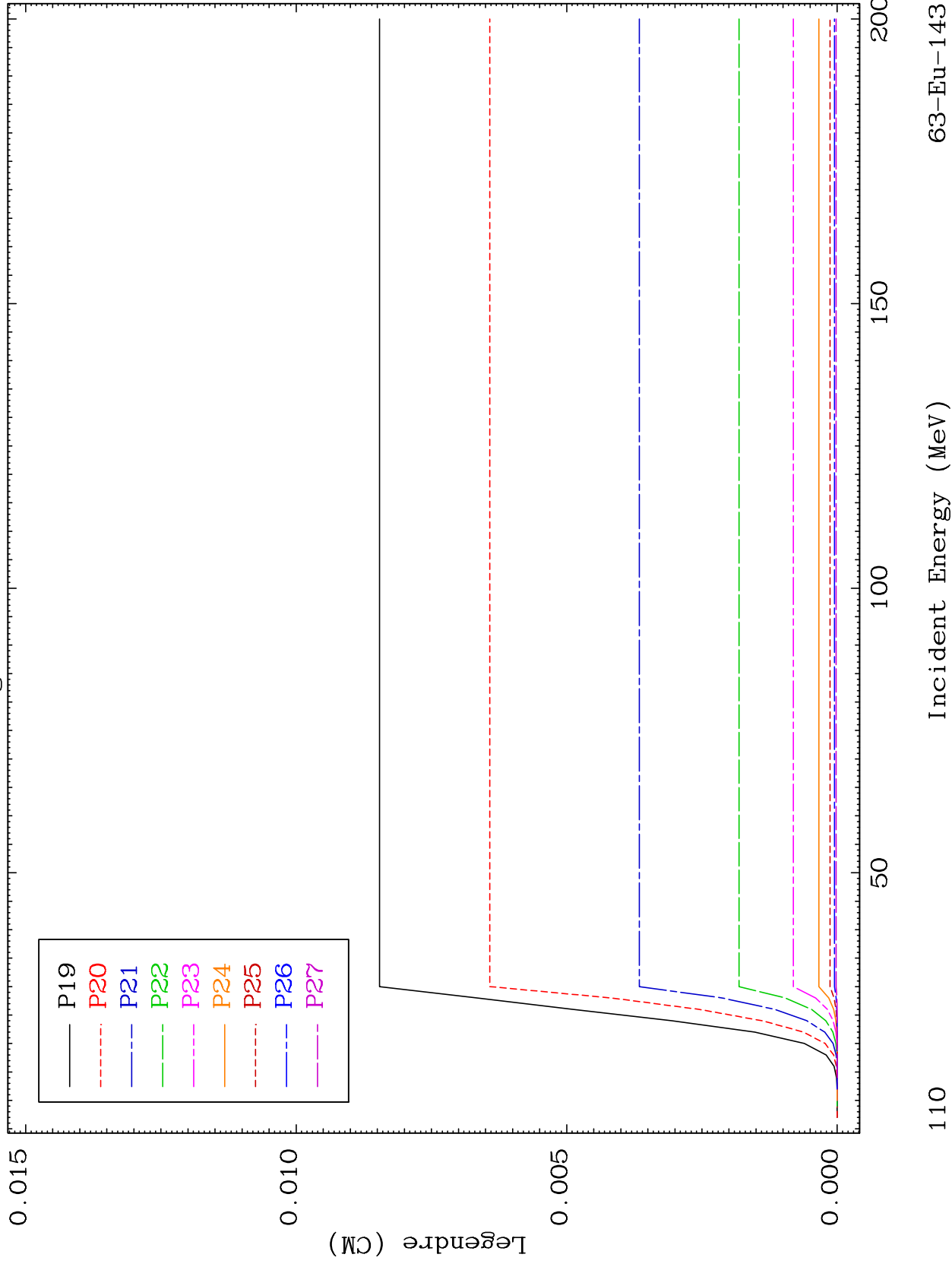
Incident Energy (MeV)

109

MAT 6301

1.724 MeV (n,n') Level
Legendre Coefficients

63-Eu-143

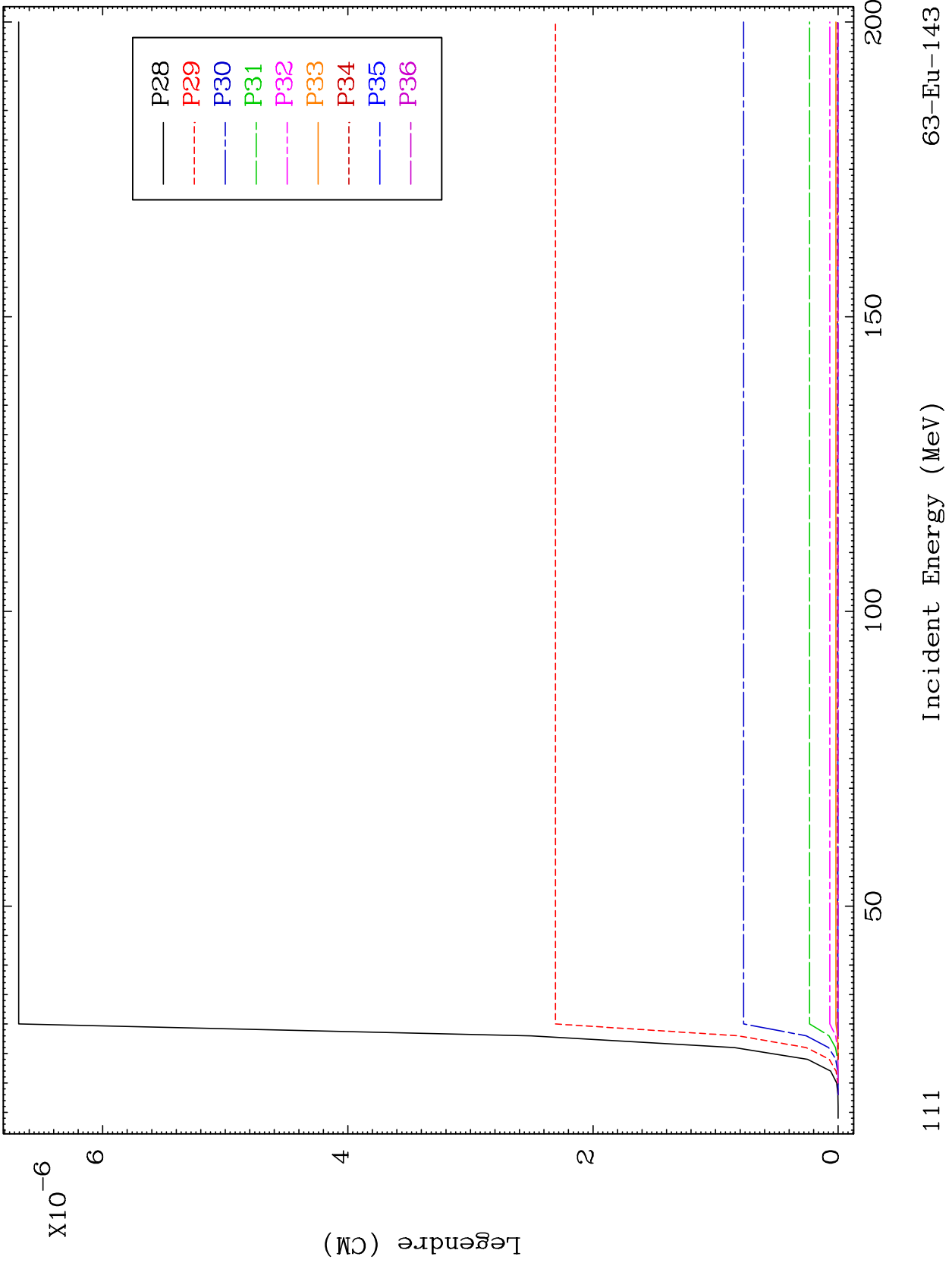


110

Incident Energy (MeV)

63-Eu-143

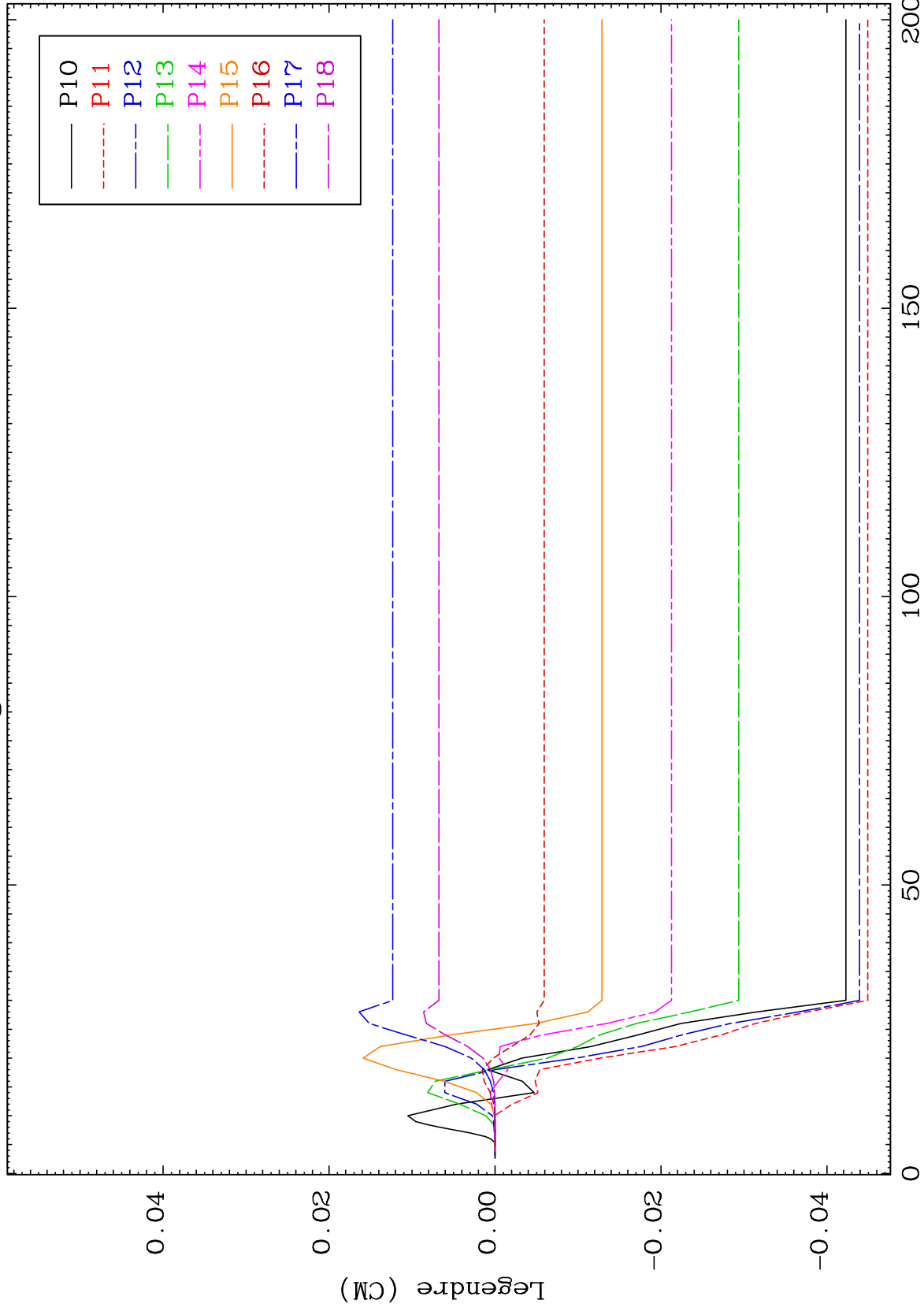
MAT 6301 1.724 MeV (n,n') Level Legendre Coefficients 63-Eu-143



MAT 6301

1.754 MeV (n,n') Level
Legendre Coefficients

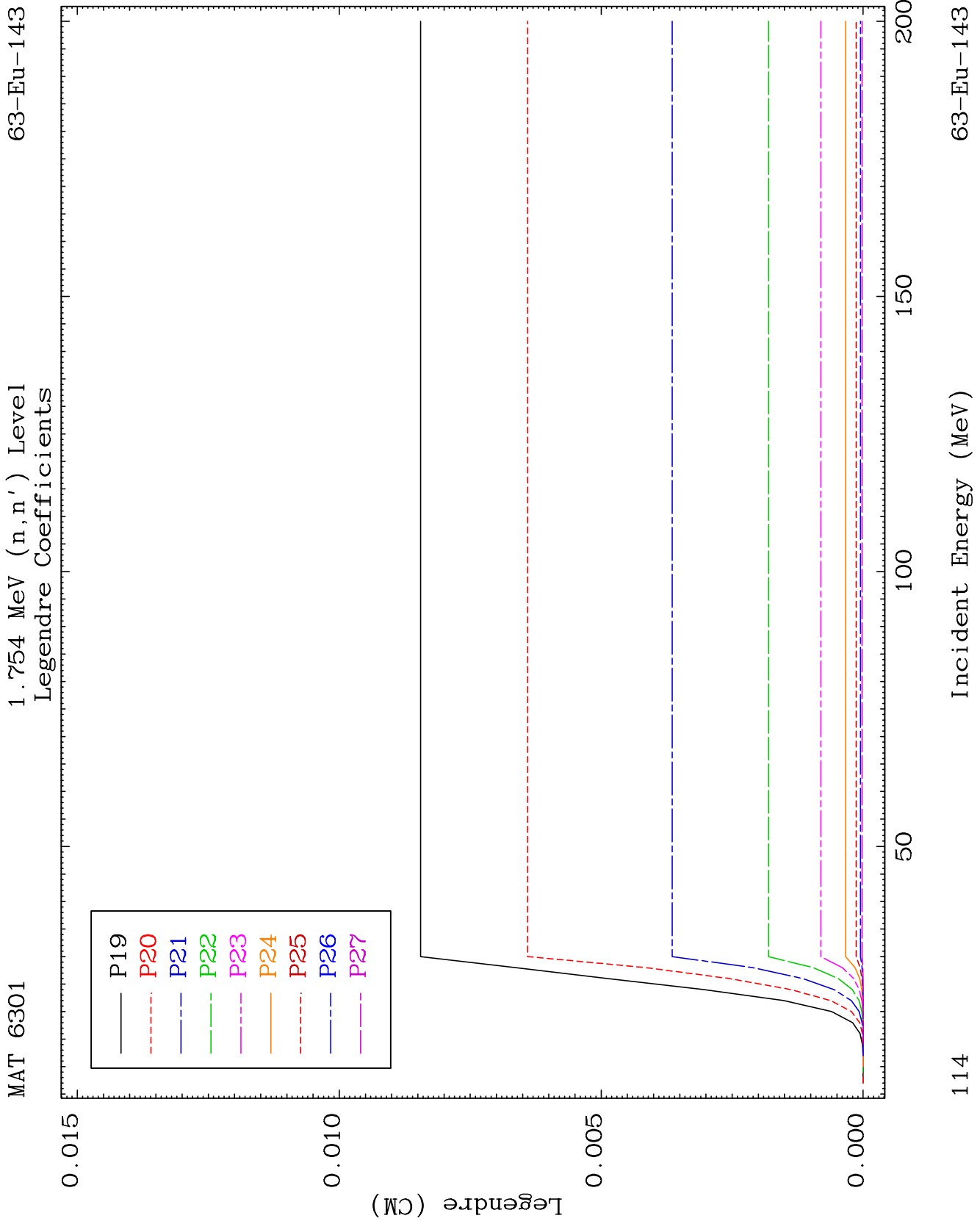
63-Eu-143

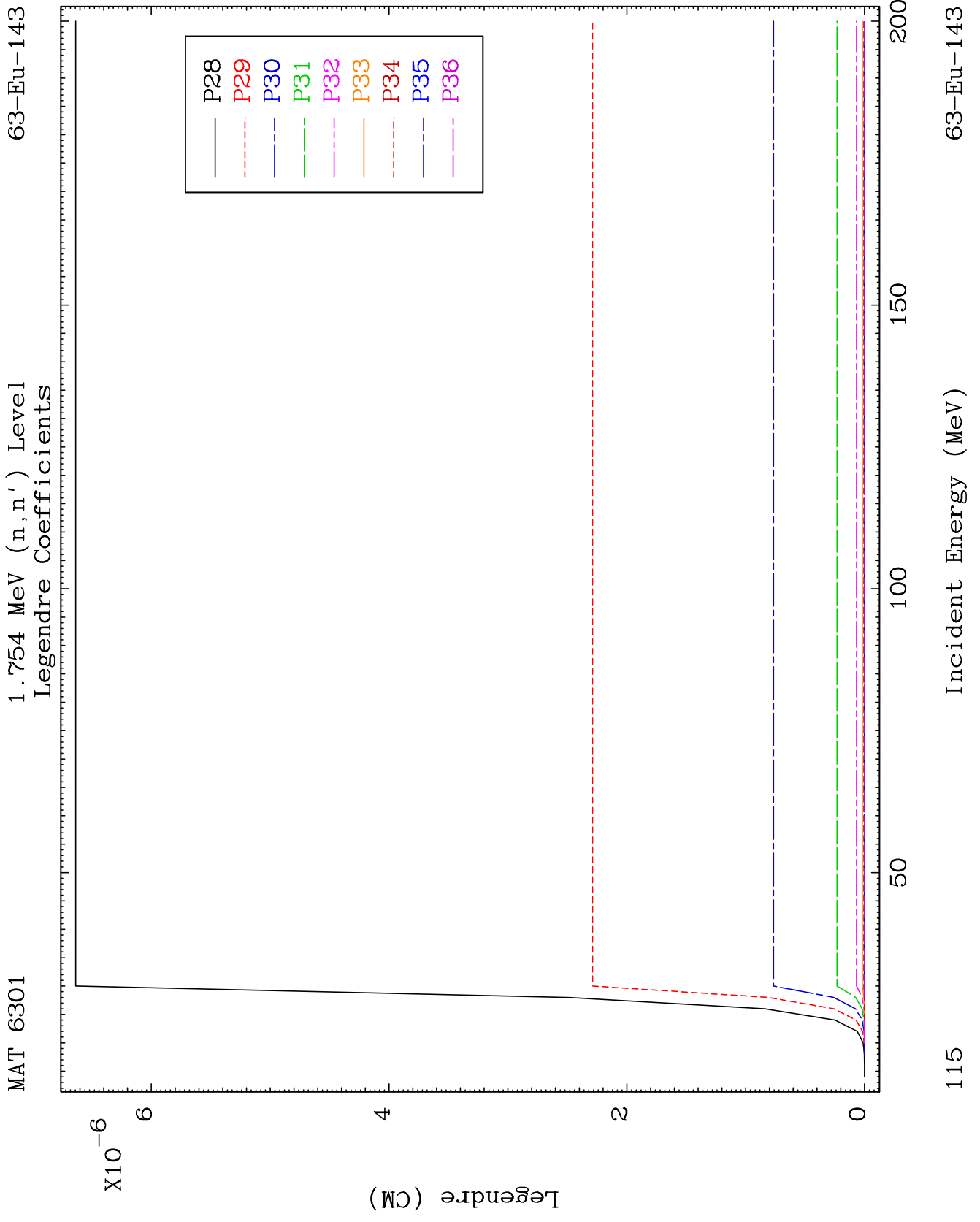


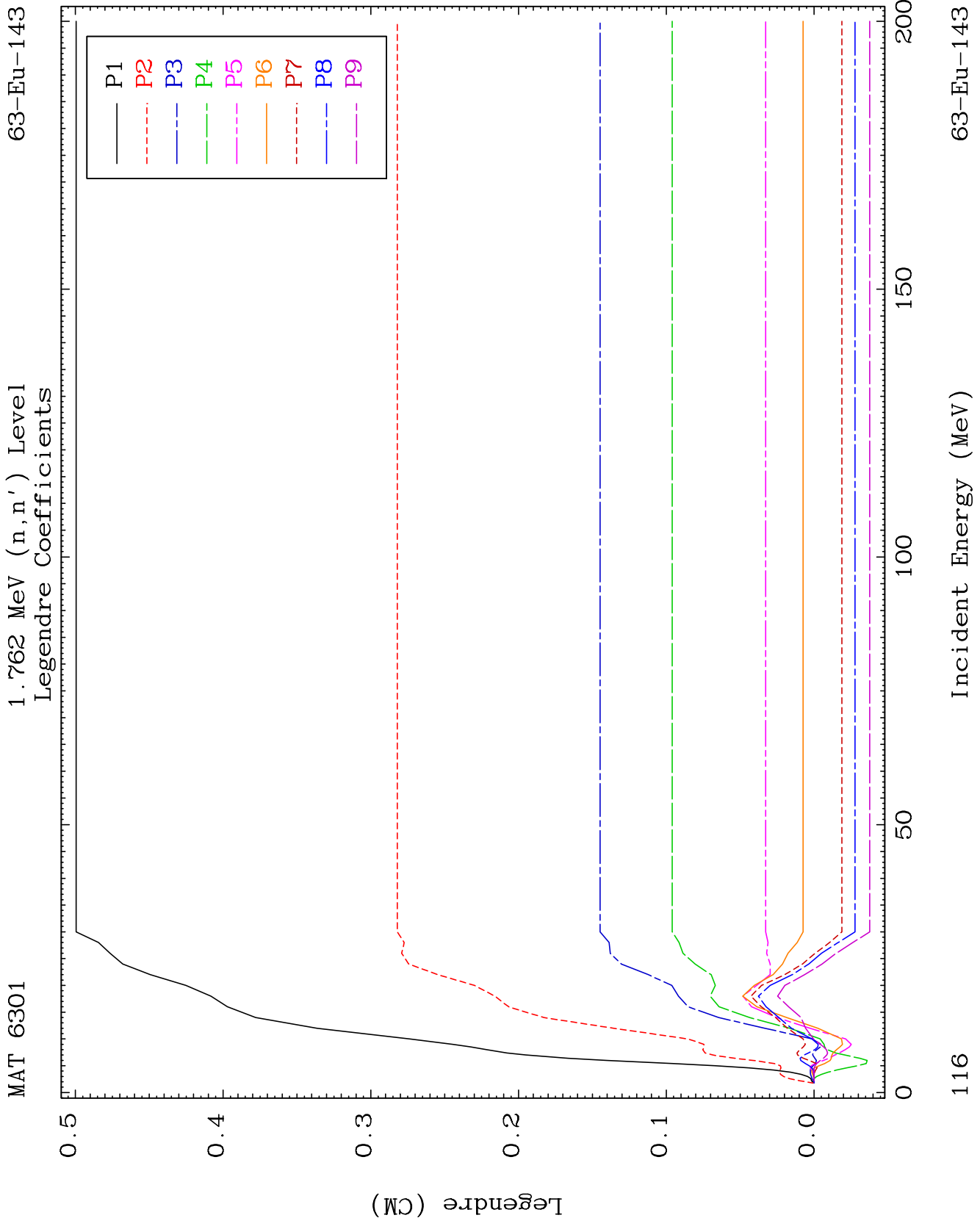
113

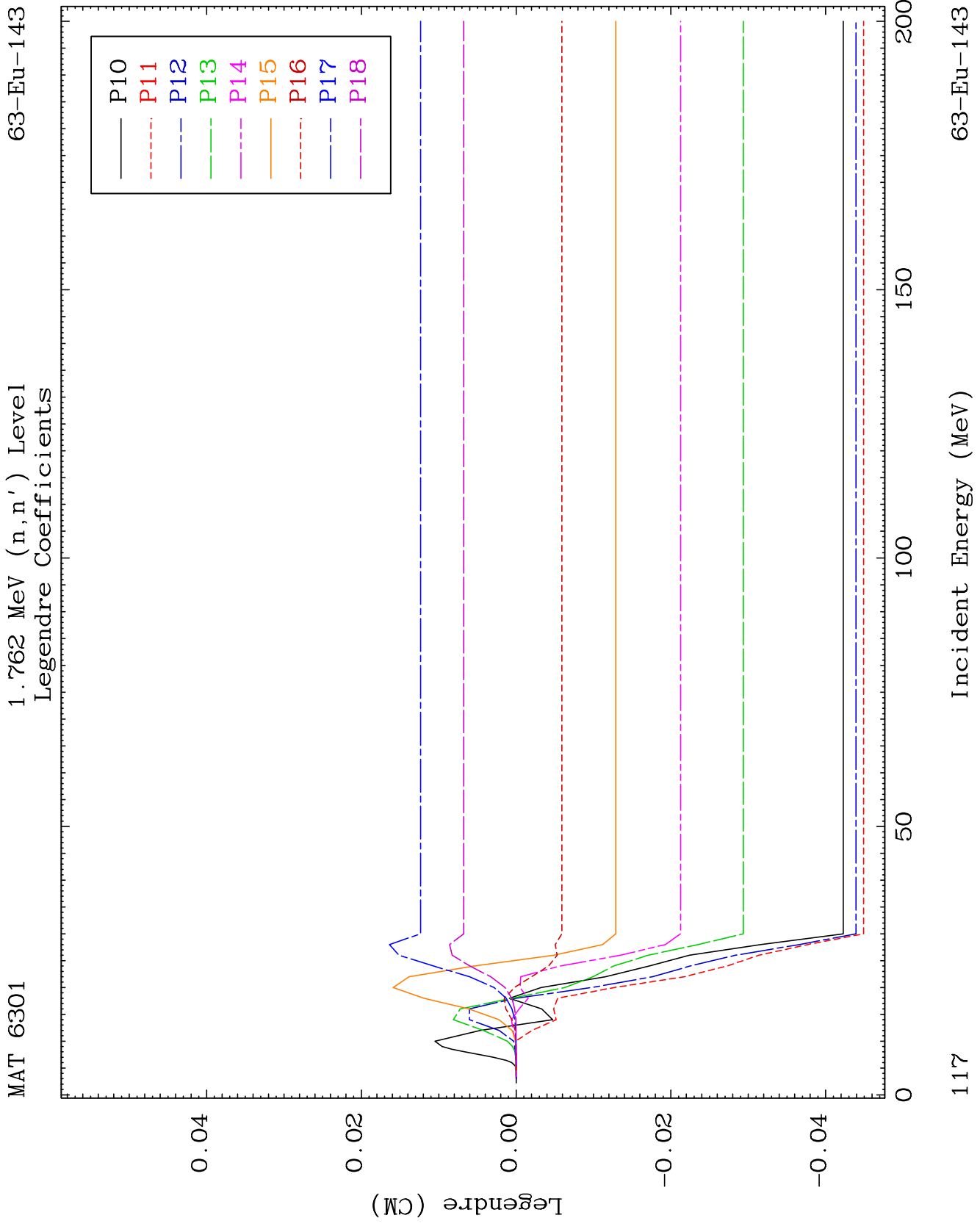
Incident Energy (MeV)

63-Eu-143





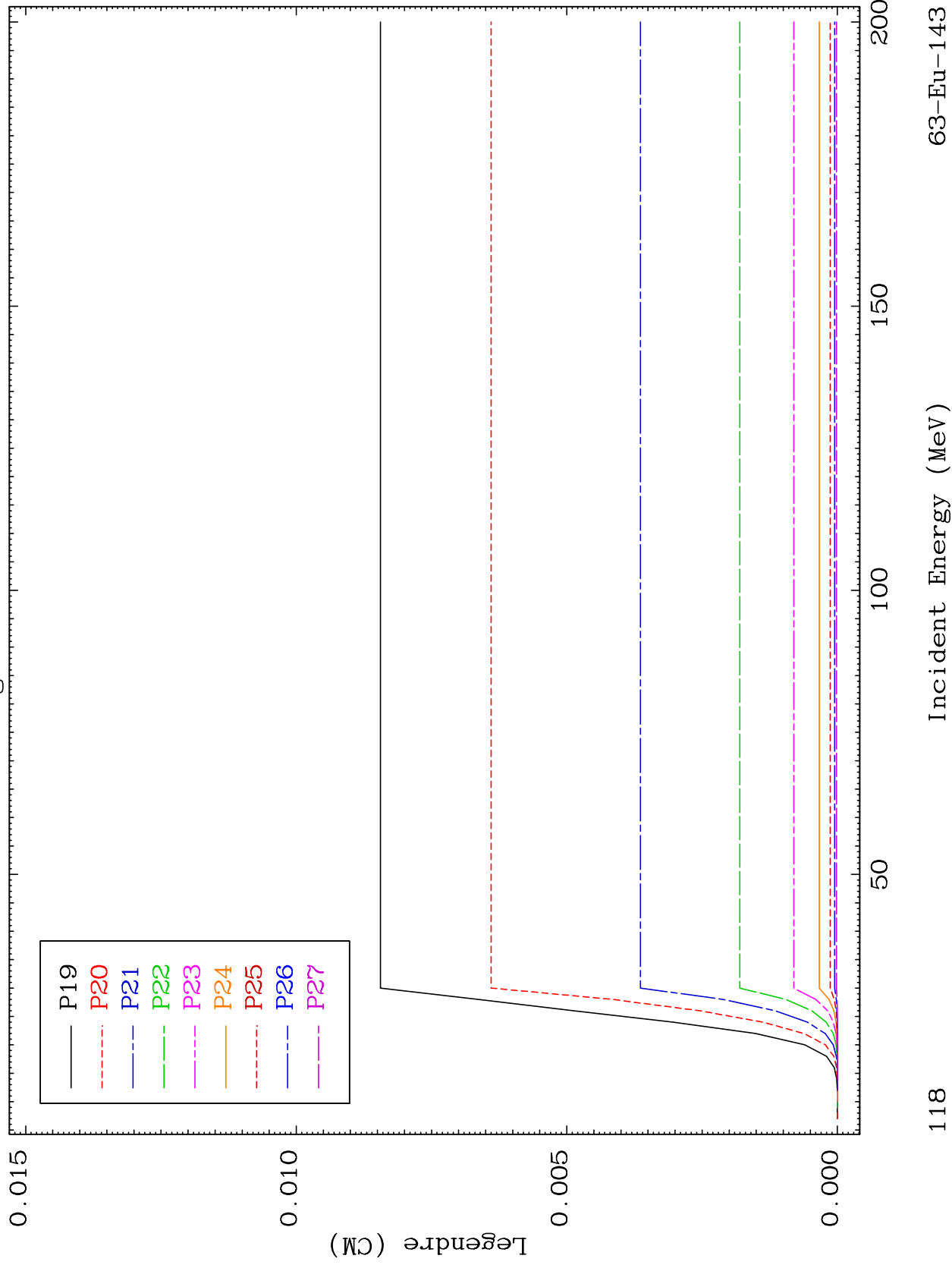




MAT 6301

1.762 MeV (n,n') Level
Legendre Coefficients

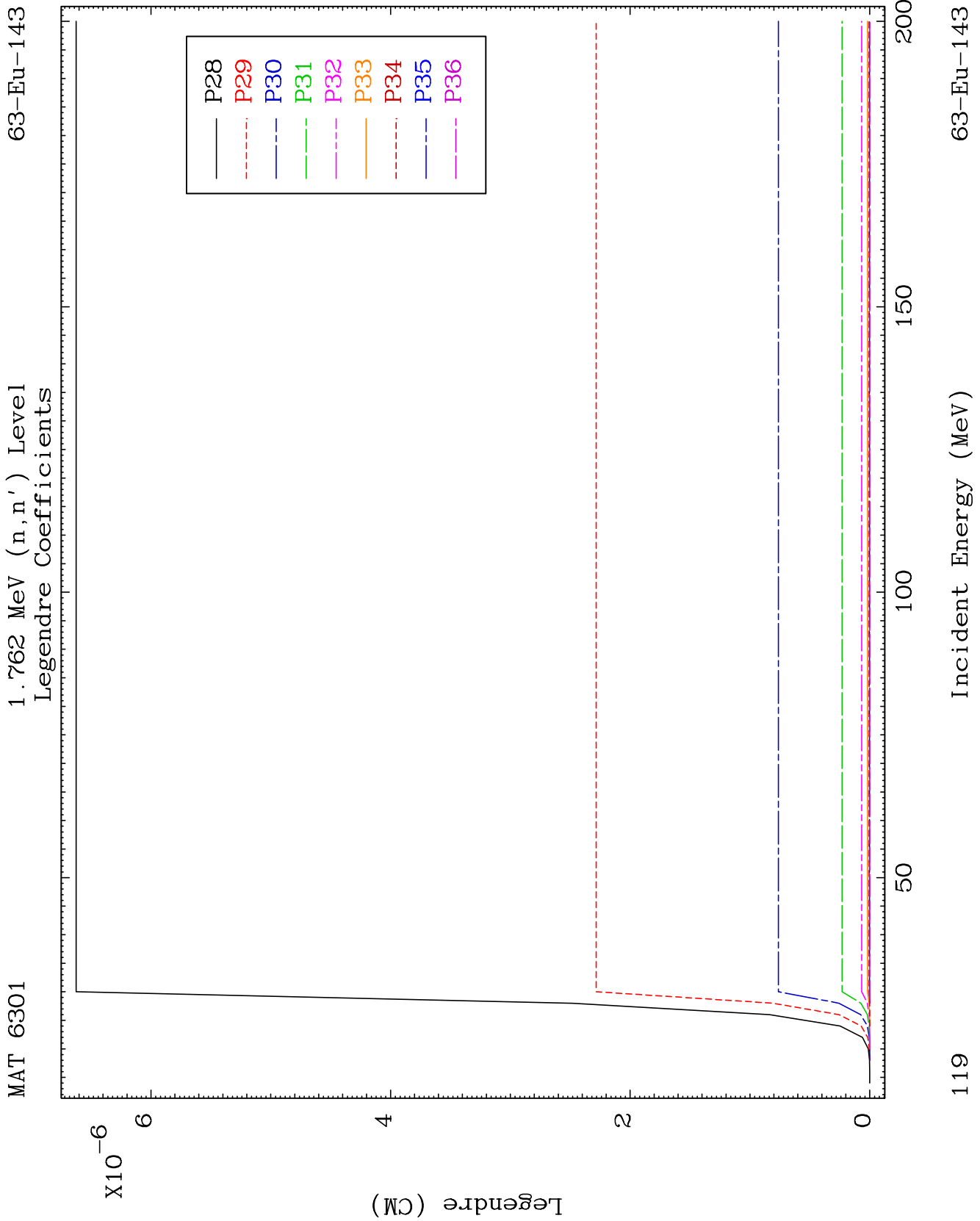
63-Eu-143

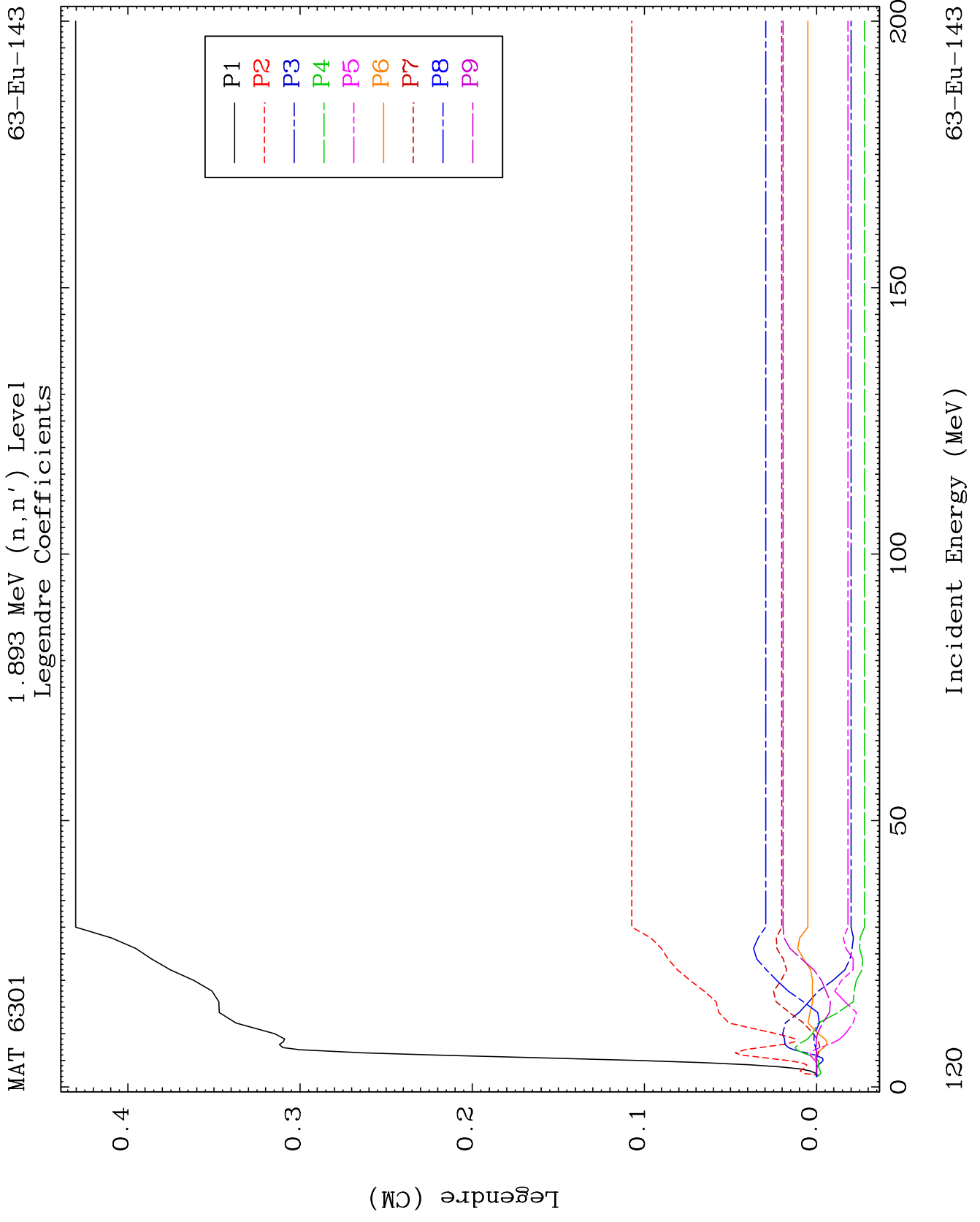


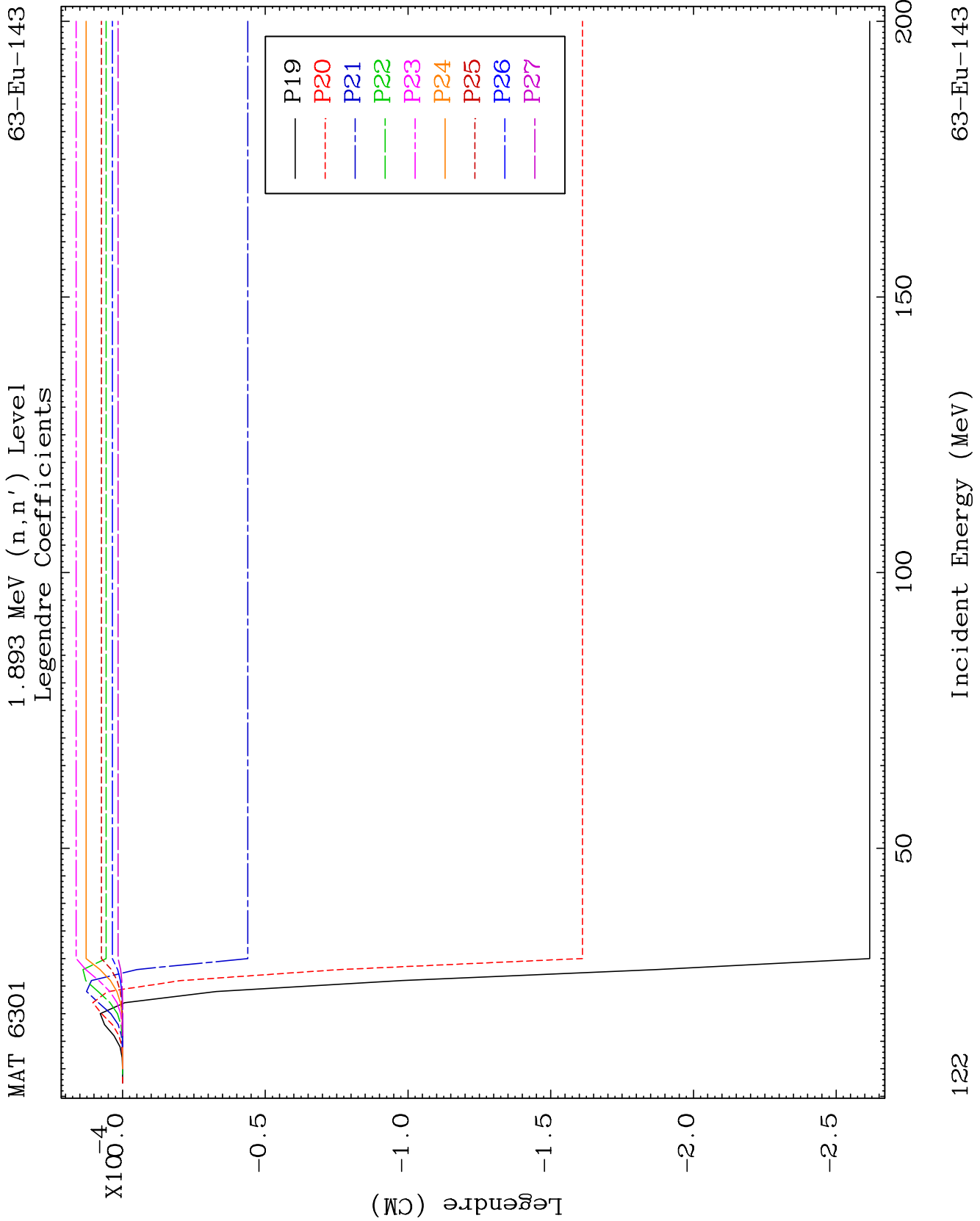
63-Eu-143

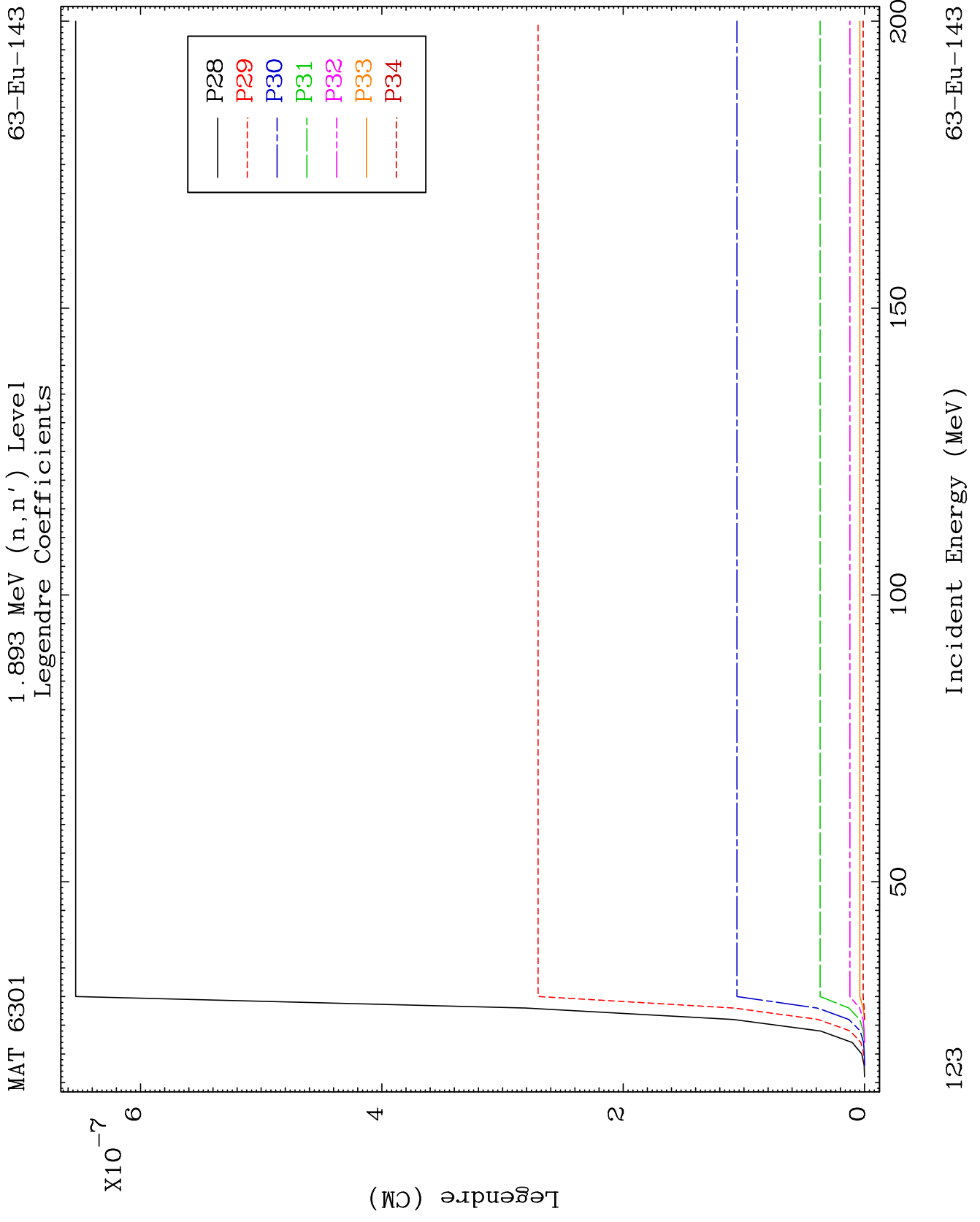
Incident Energy (MeV)

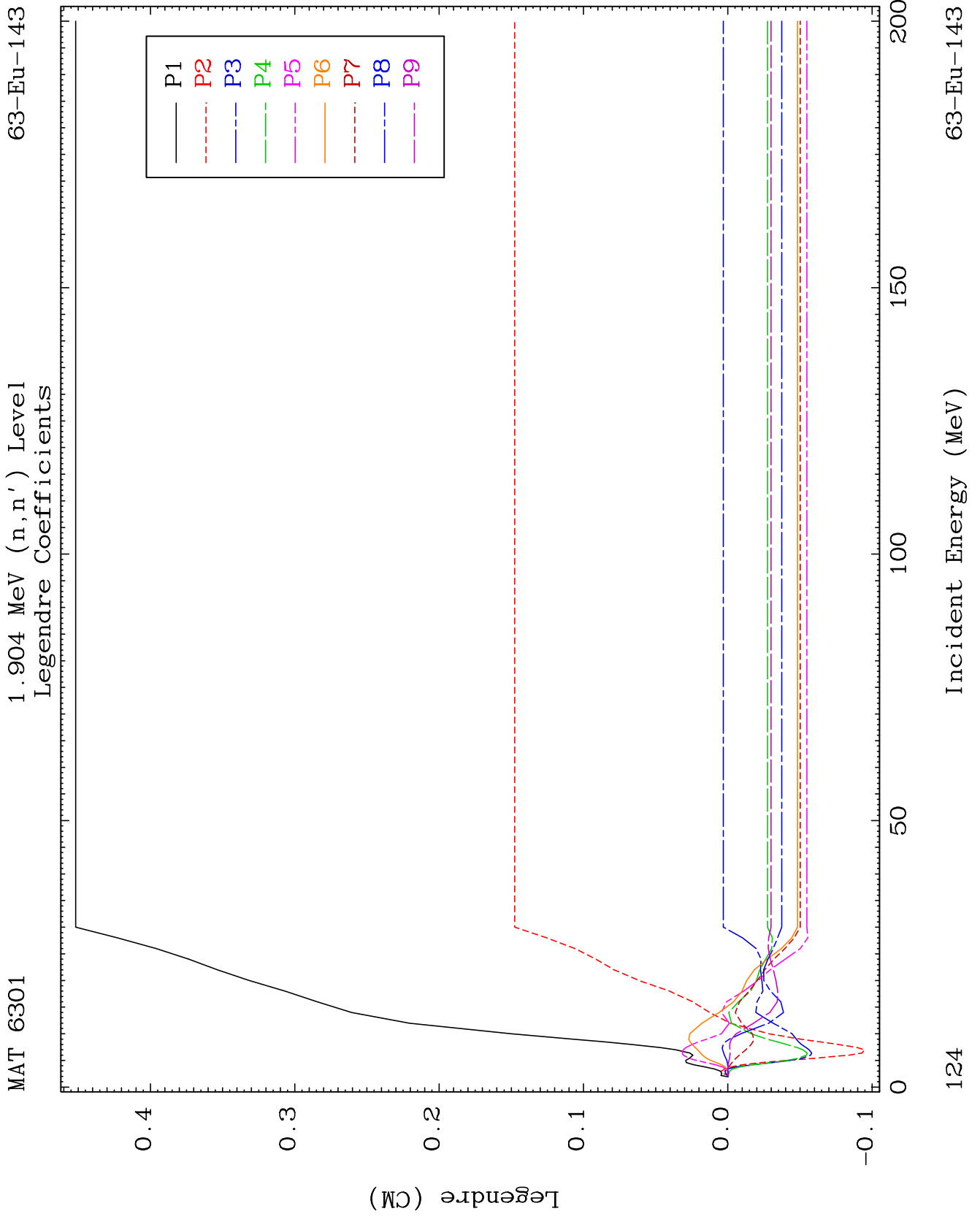
118

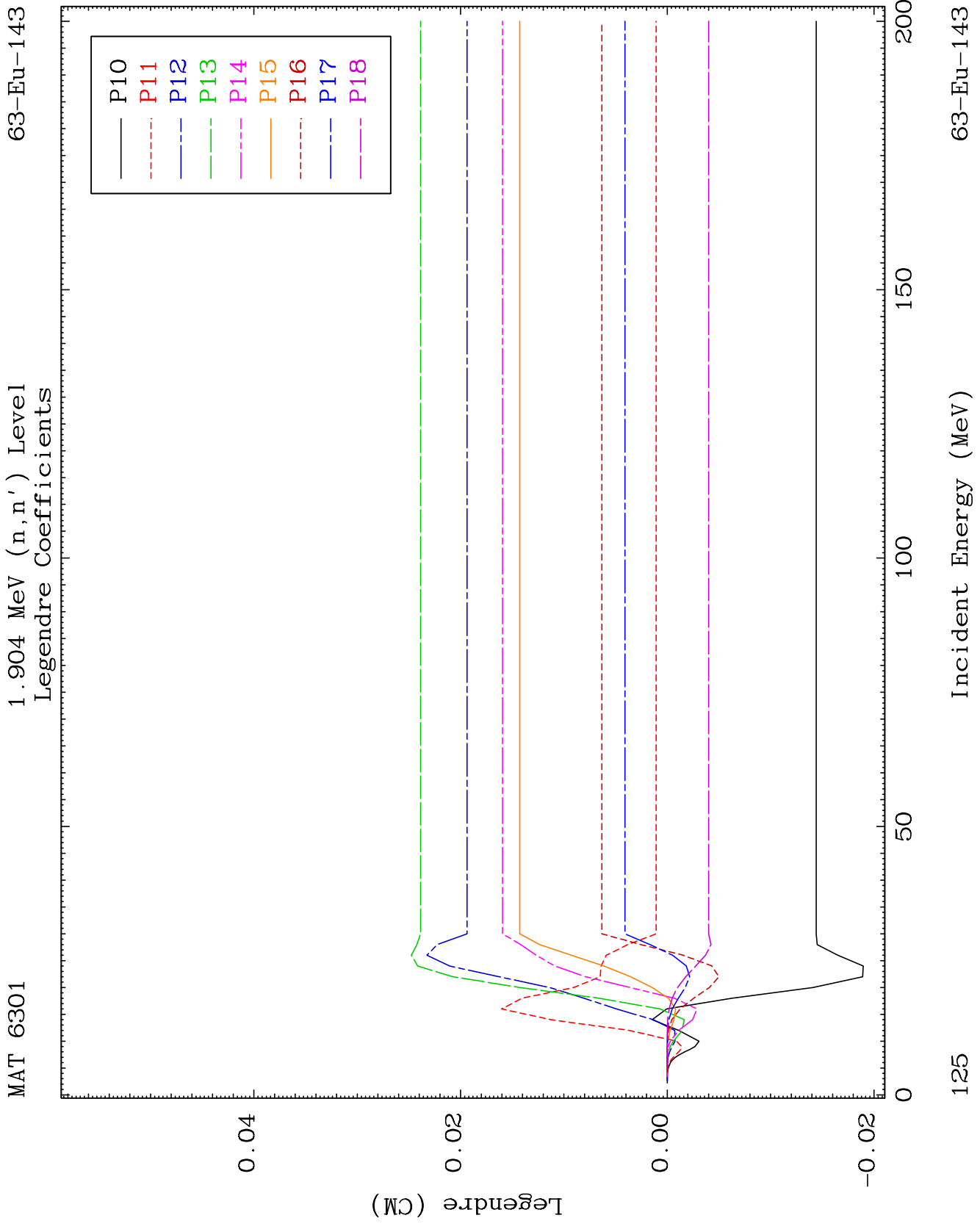


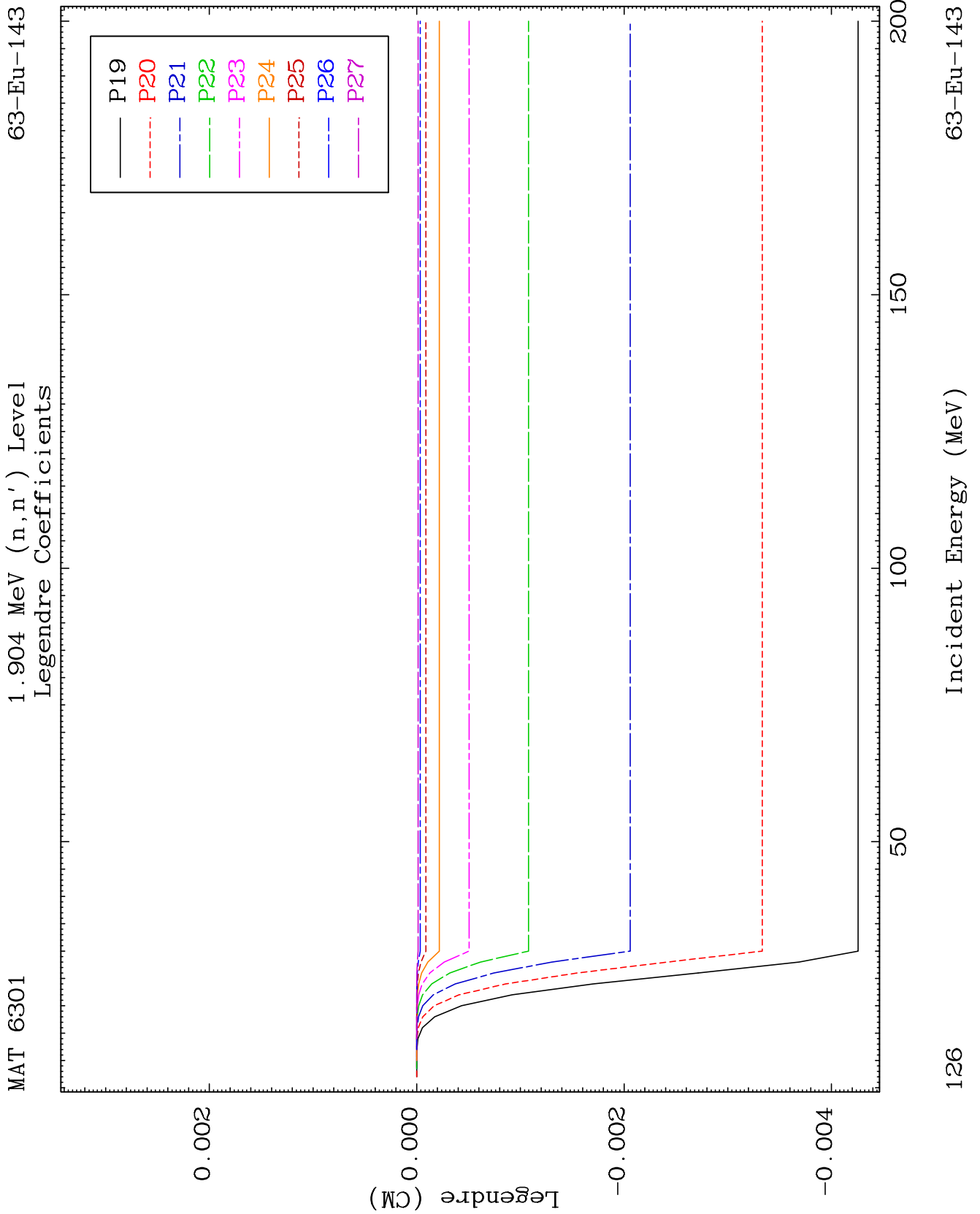


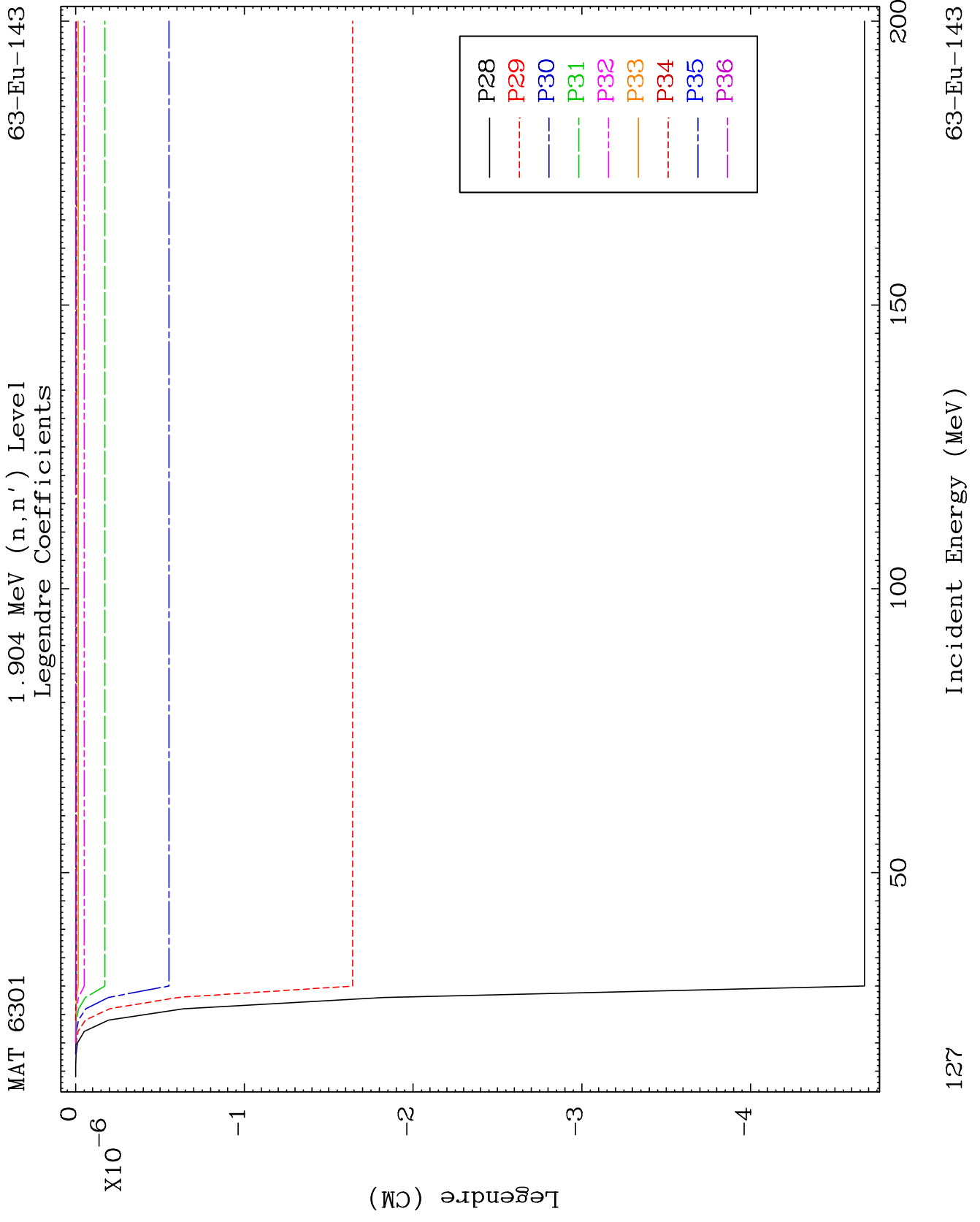








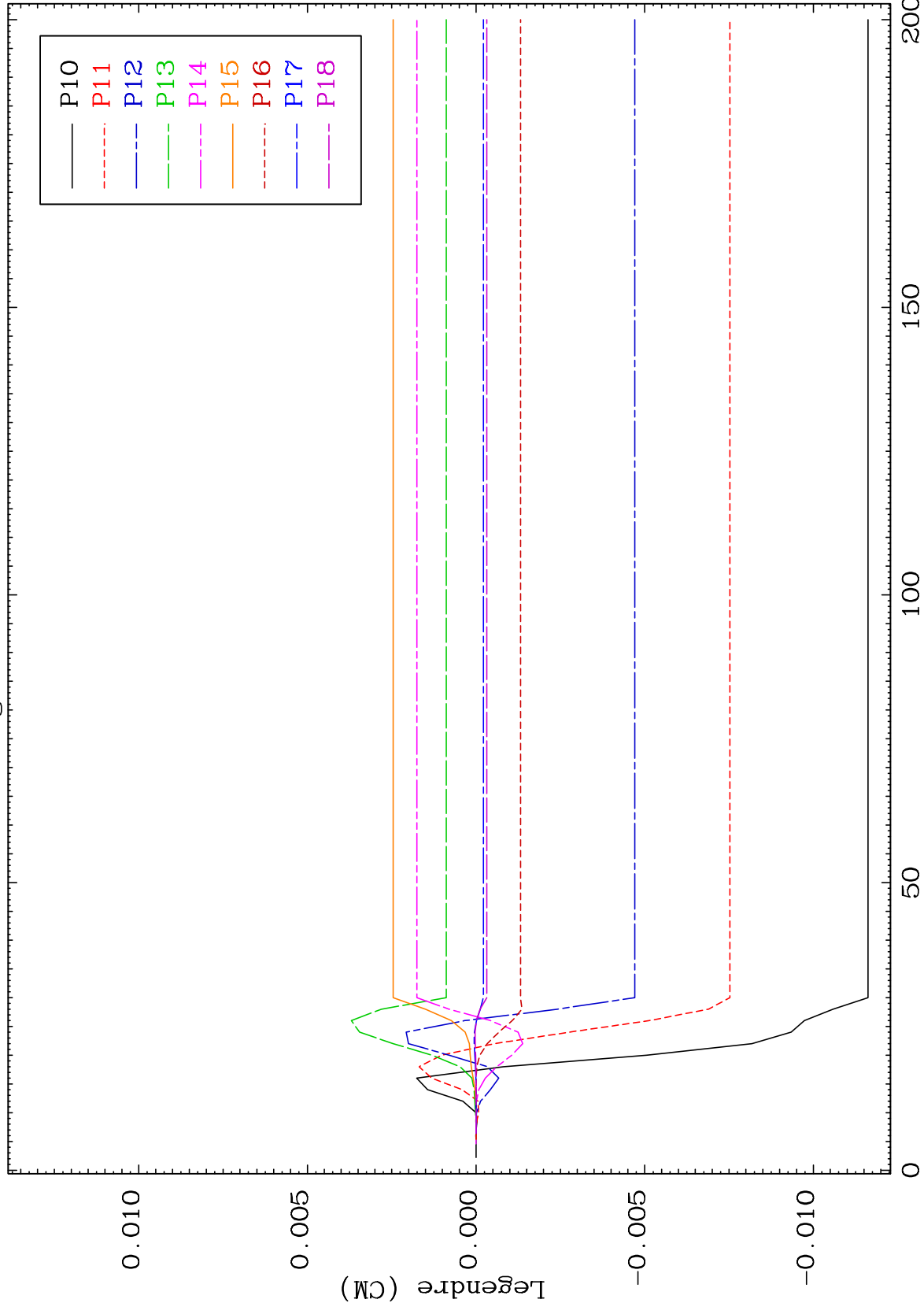




MAT 6301

1.908 MeV (n,n') Level
Legendre Coefficients

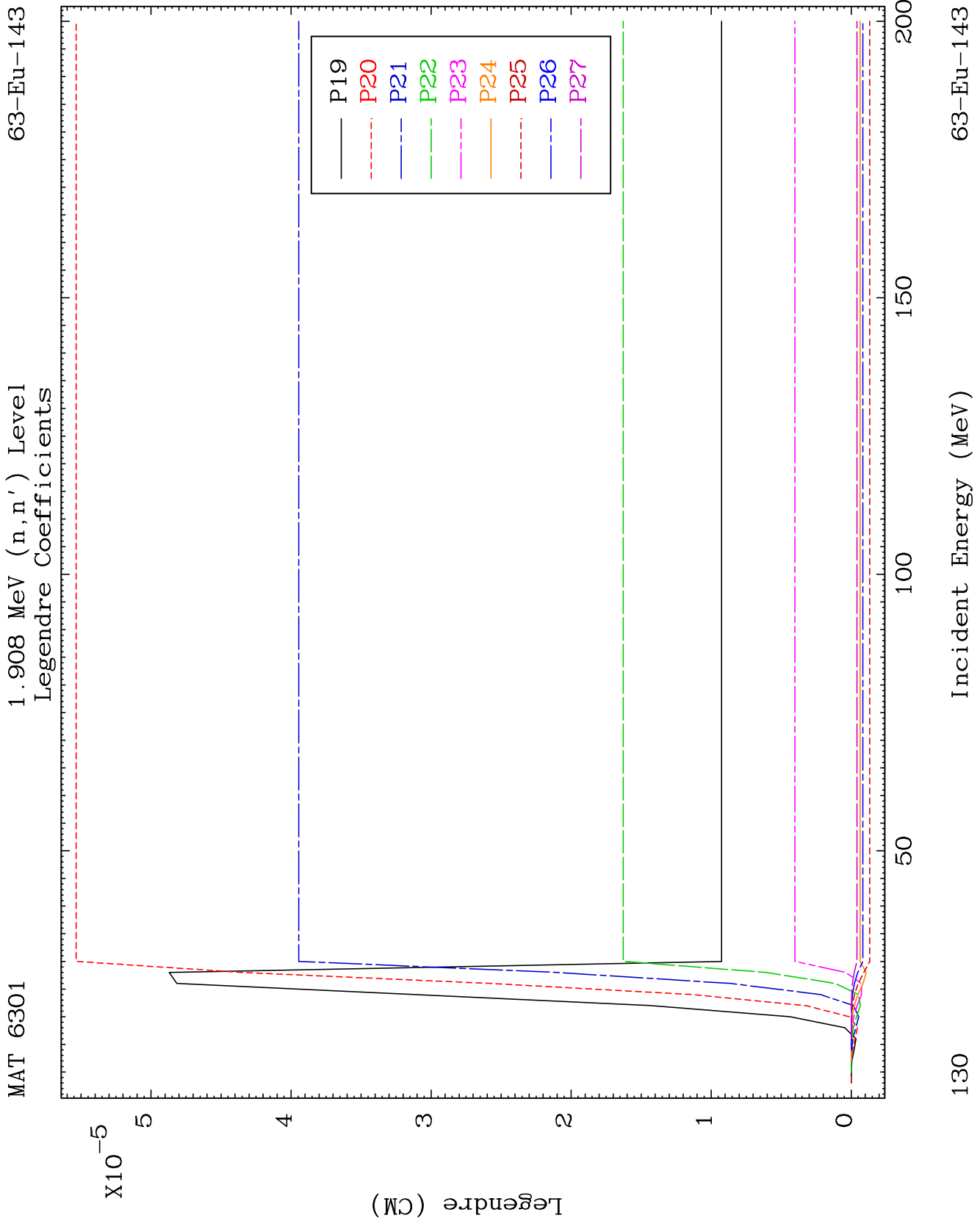
63-Eu-143

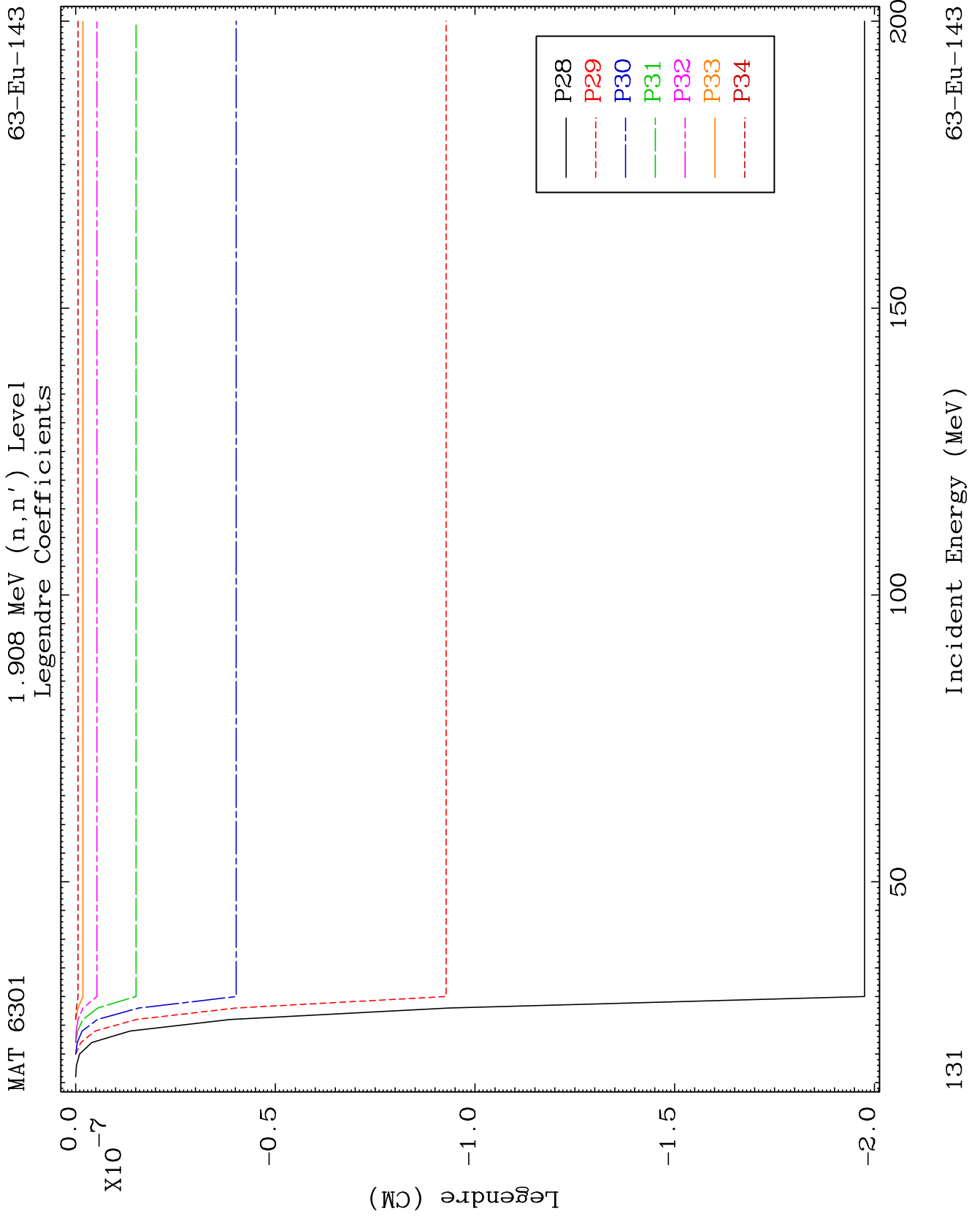


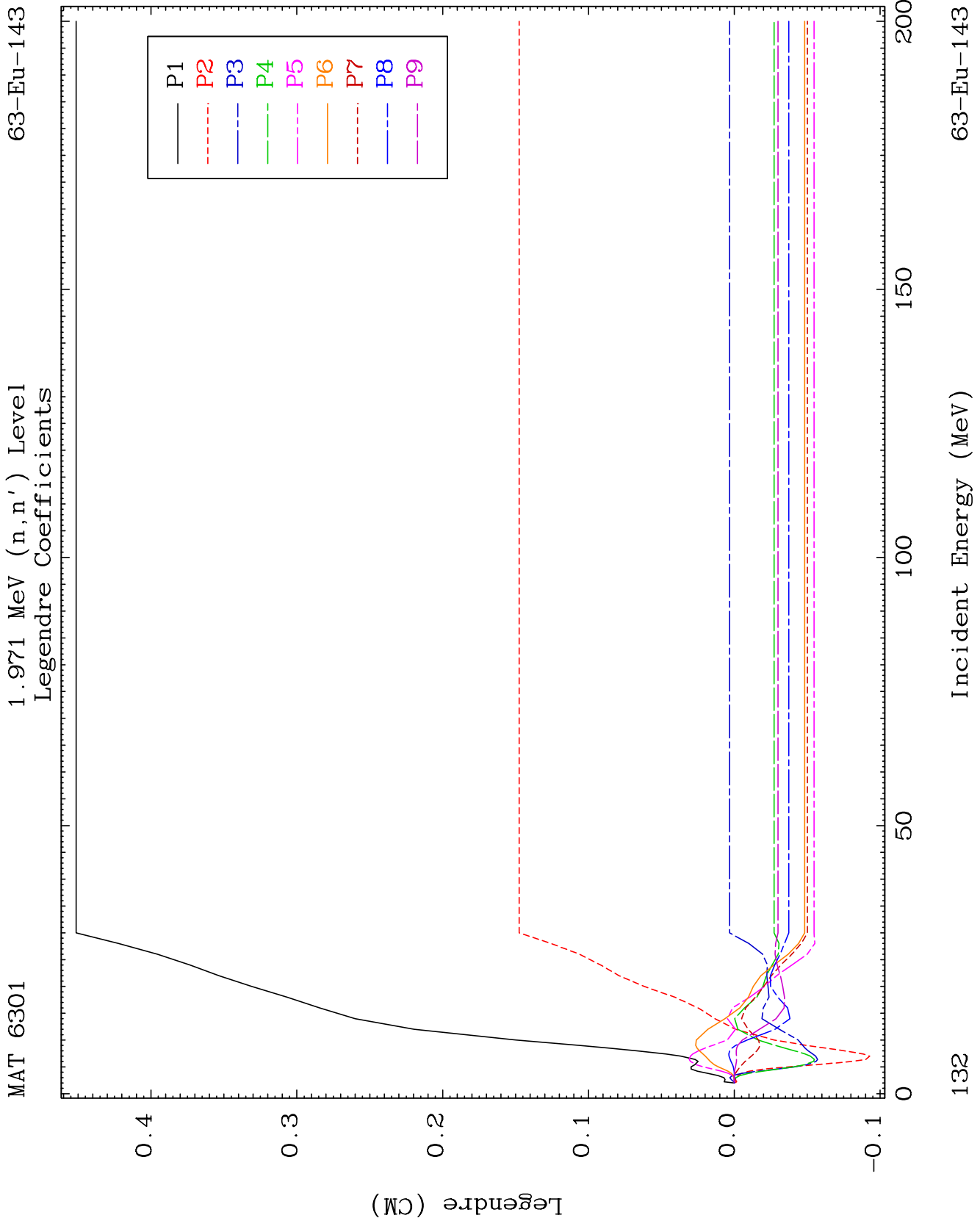
129

Incident Energy (MeV)

63-Eu-143



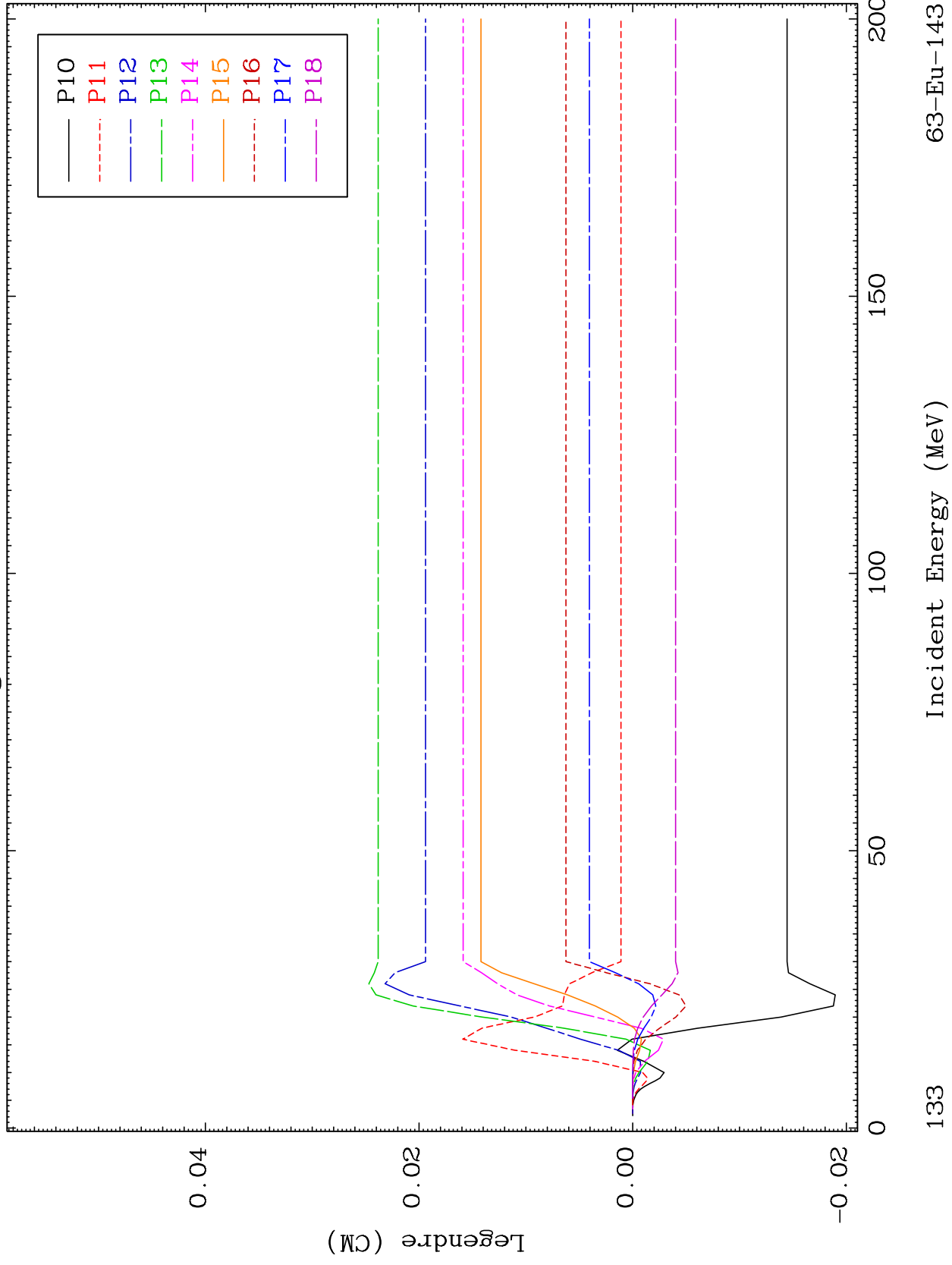




MAT 6301

1.971 MeV (n,n') Level
Legendre Coefficients

63-Eu-143



133

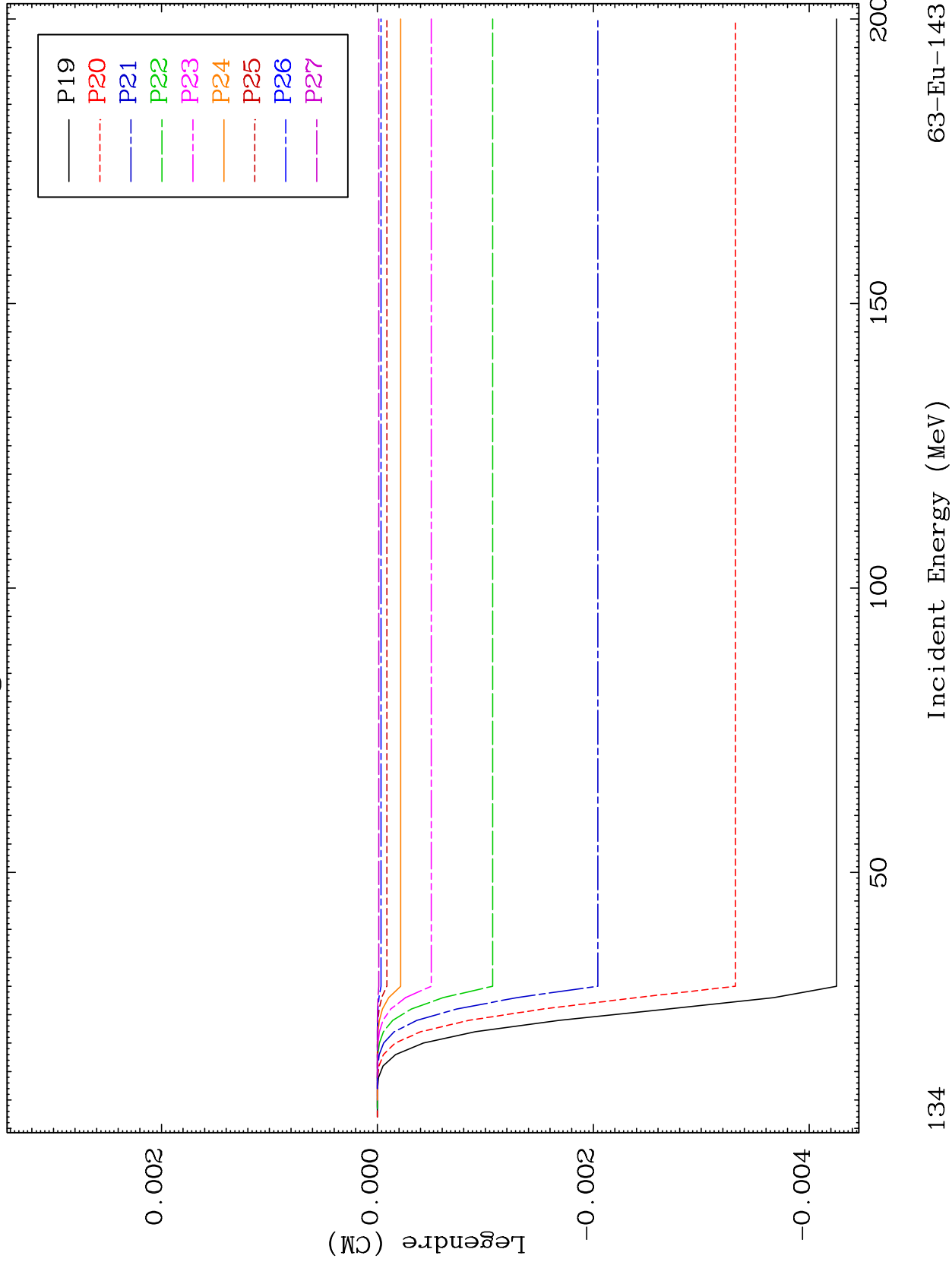
Incident Energy (MeV)

63-Eu-143

MAT 6301

1.971 MeV (n,n') Level
Legendre Coefficients

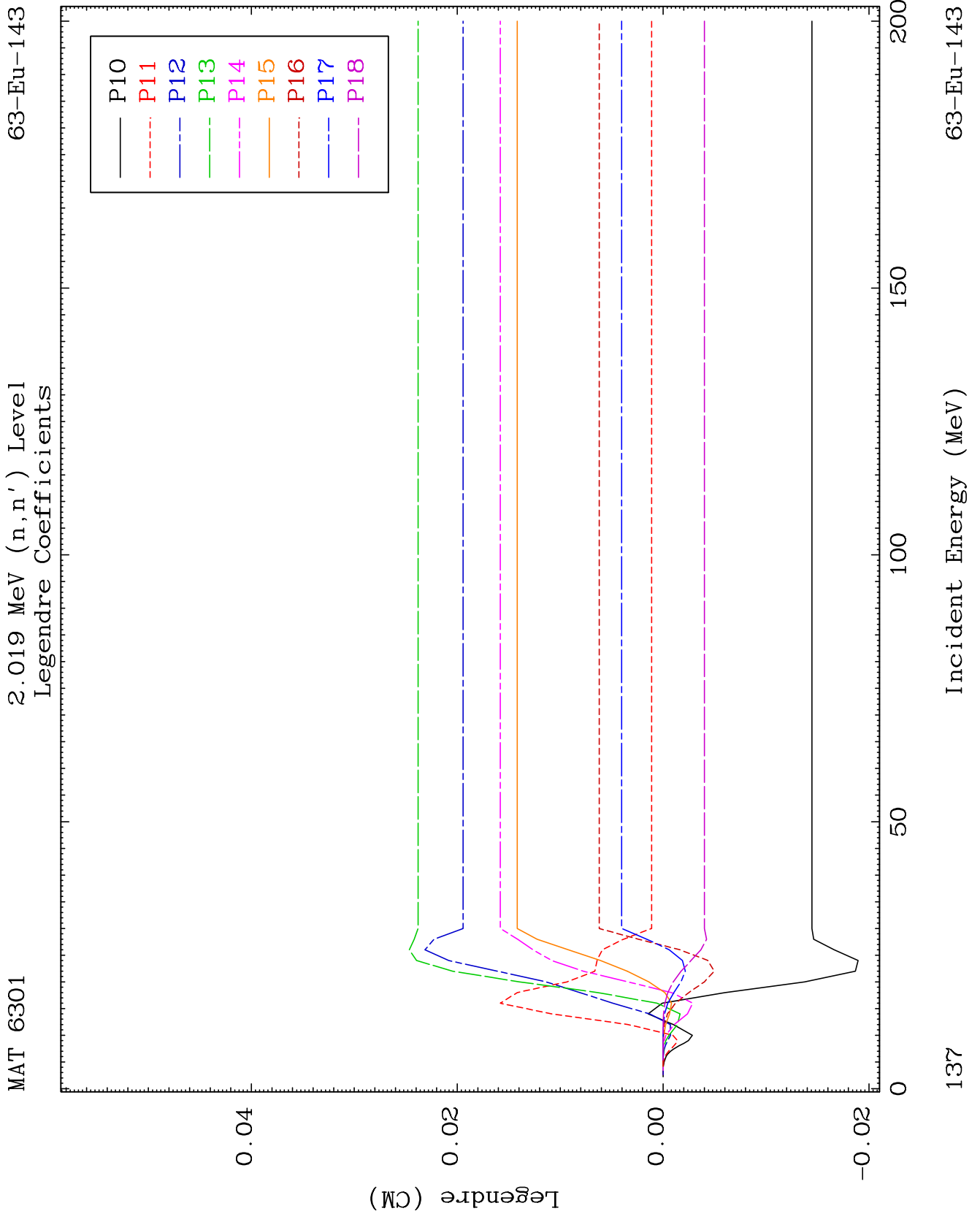
63-Eu-143

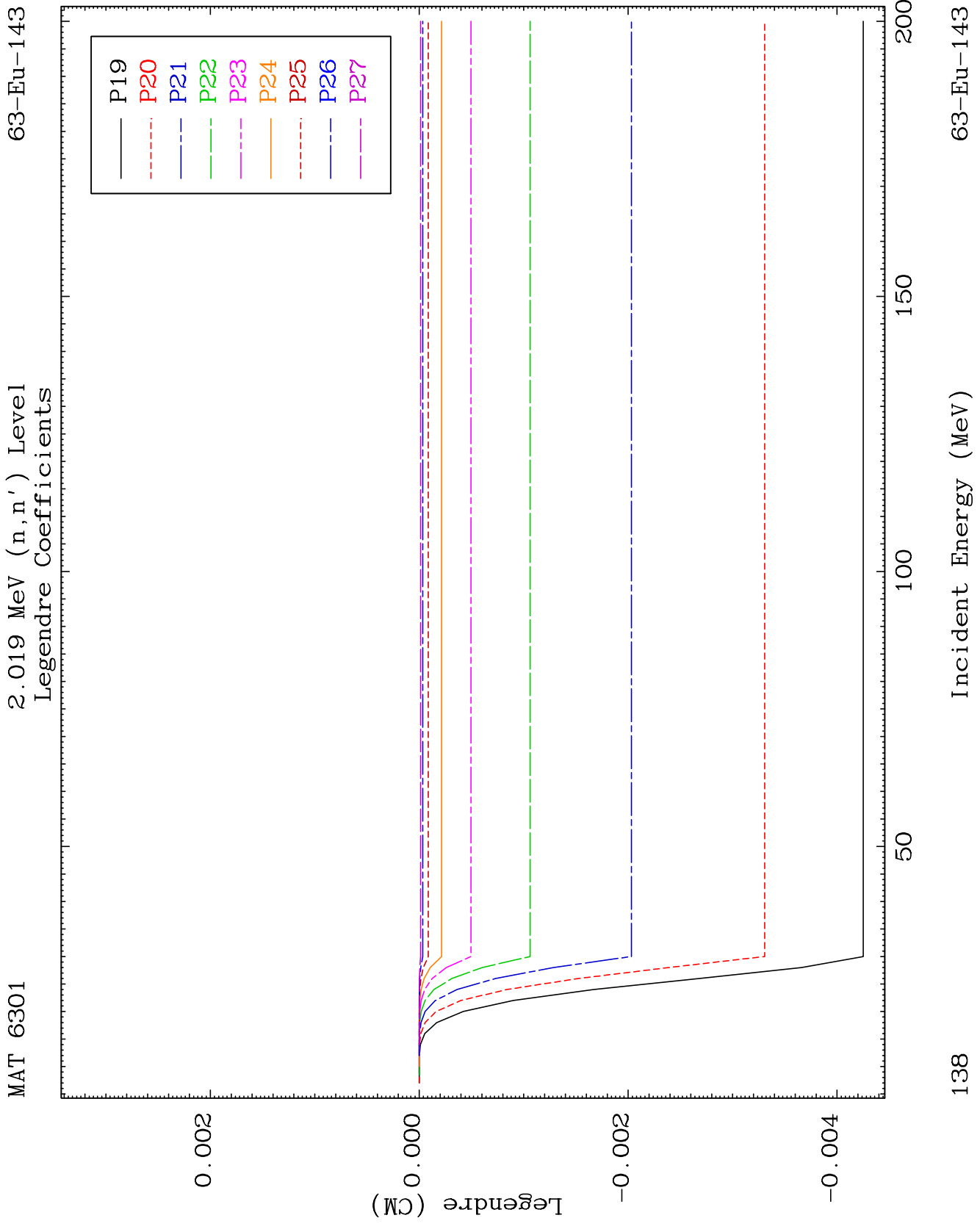


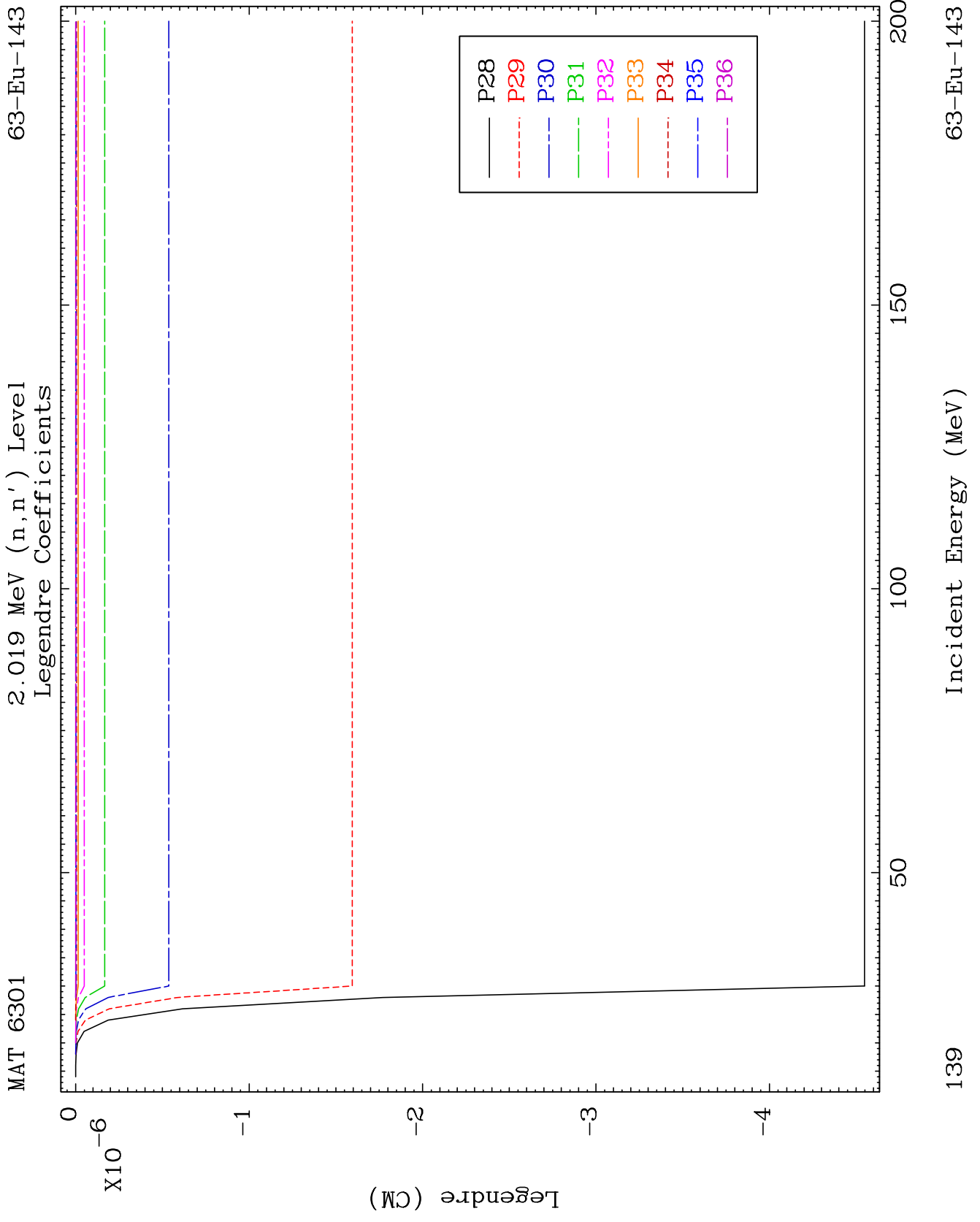
134

Incident Energy (MeV)

63-Eu-143



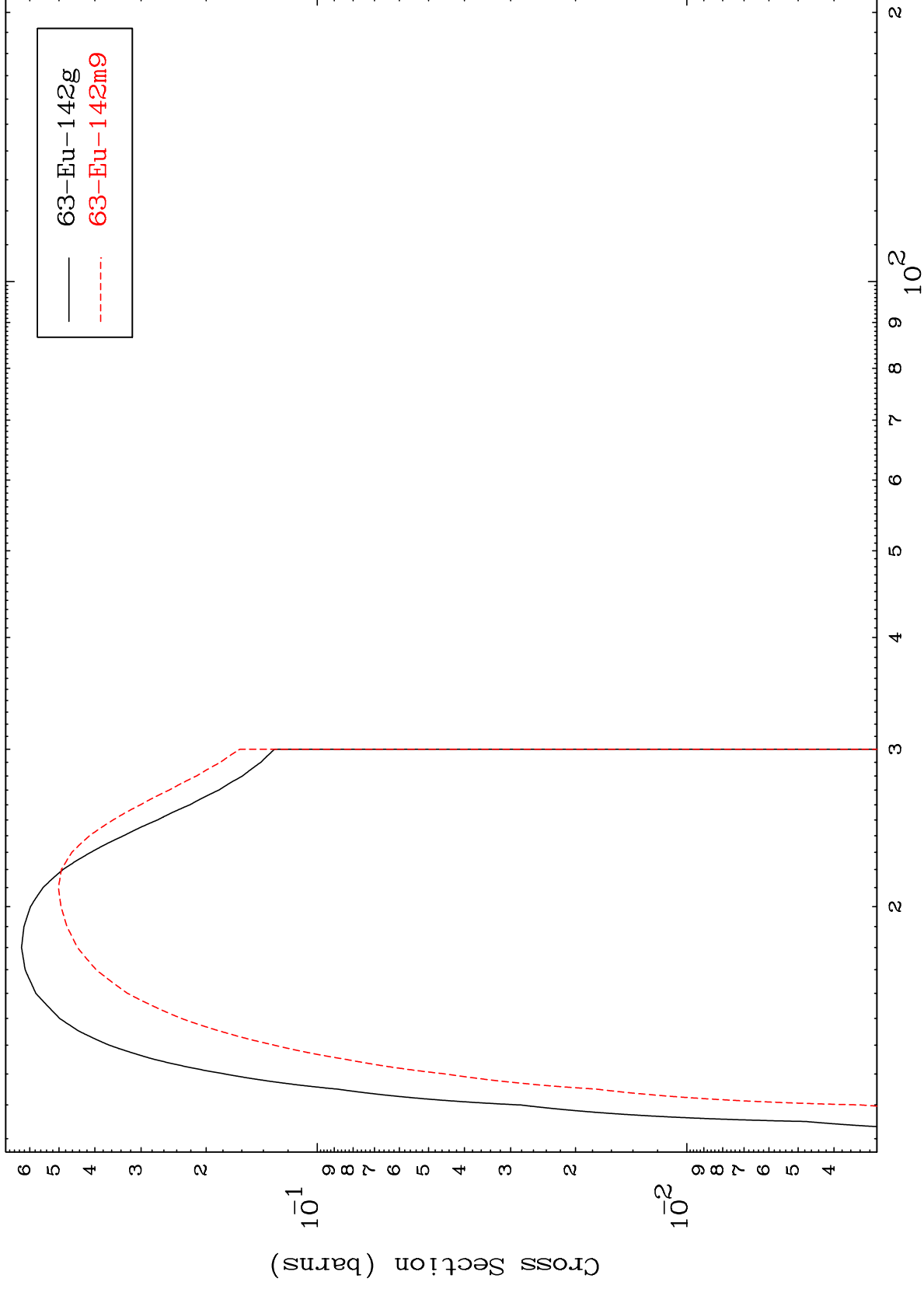




MAT 6301

63-Eu-143

(n,2n)
Radionuclide Production Cross Section



140

Incident Energy (MeV)

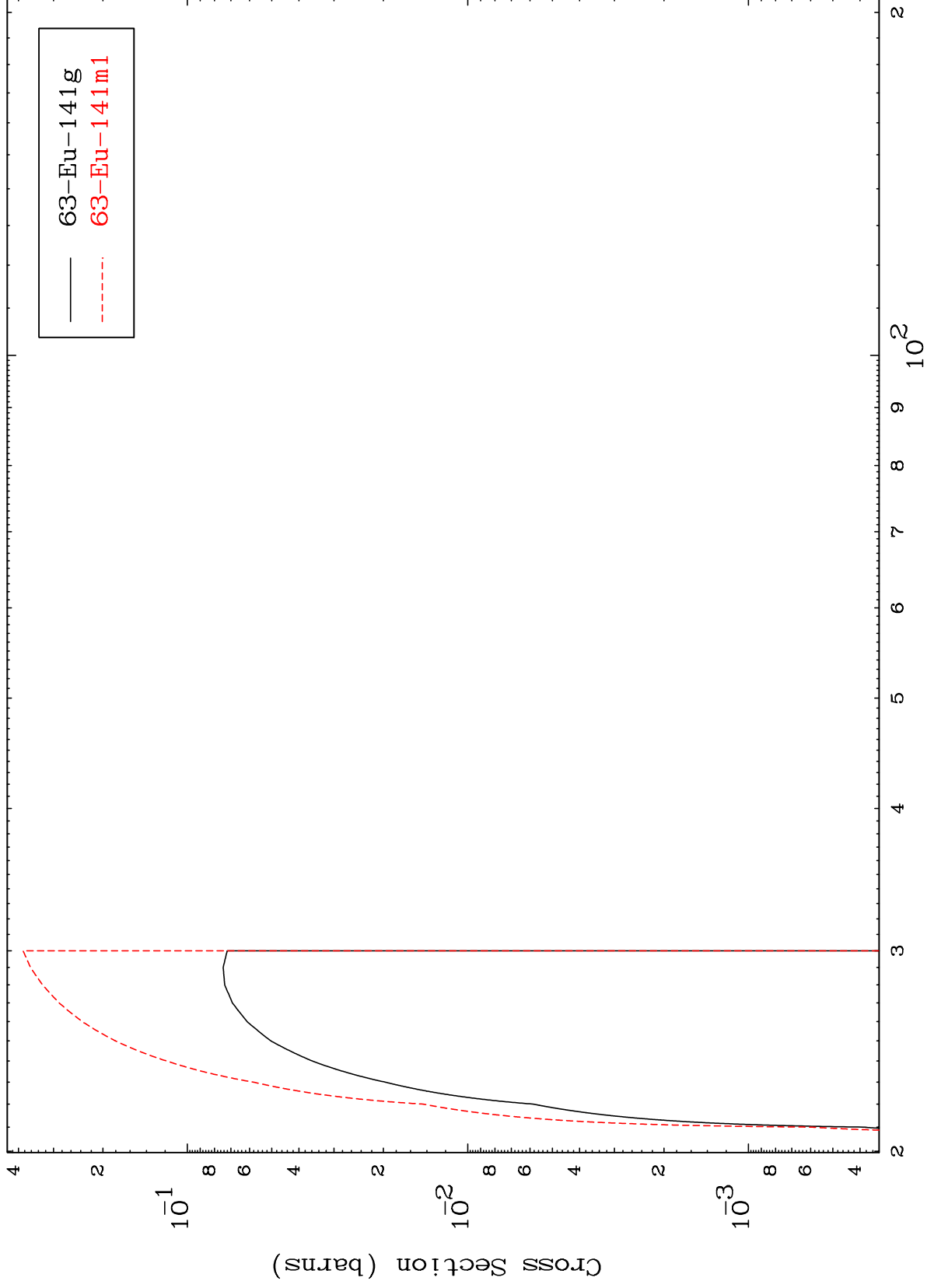
63-Eu-143

MAT 6301

(n,3n)

63-Eu-143

Radionuclide Production Cross Section



141

Incident Energy (MeV)

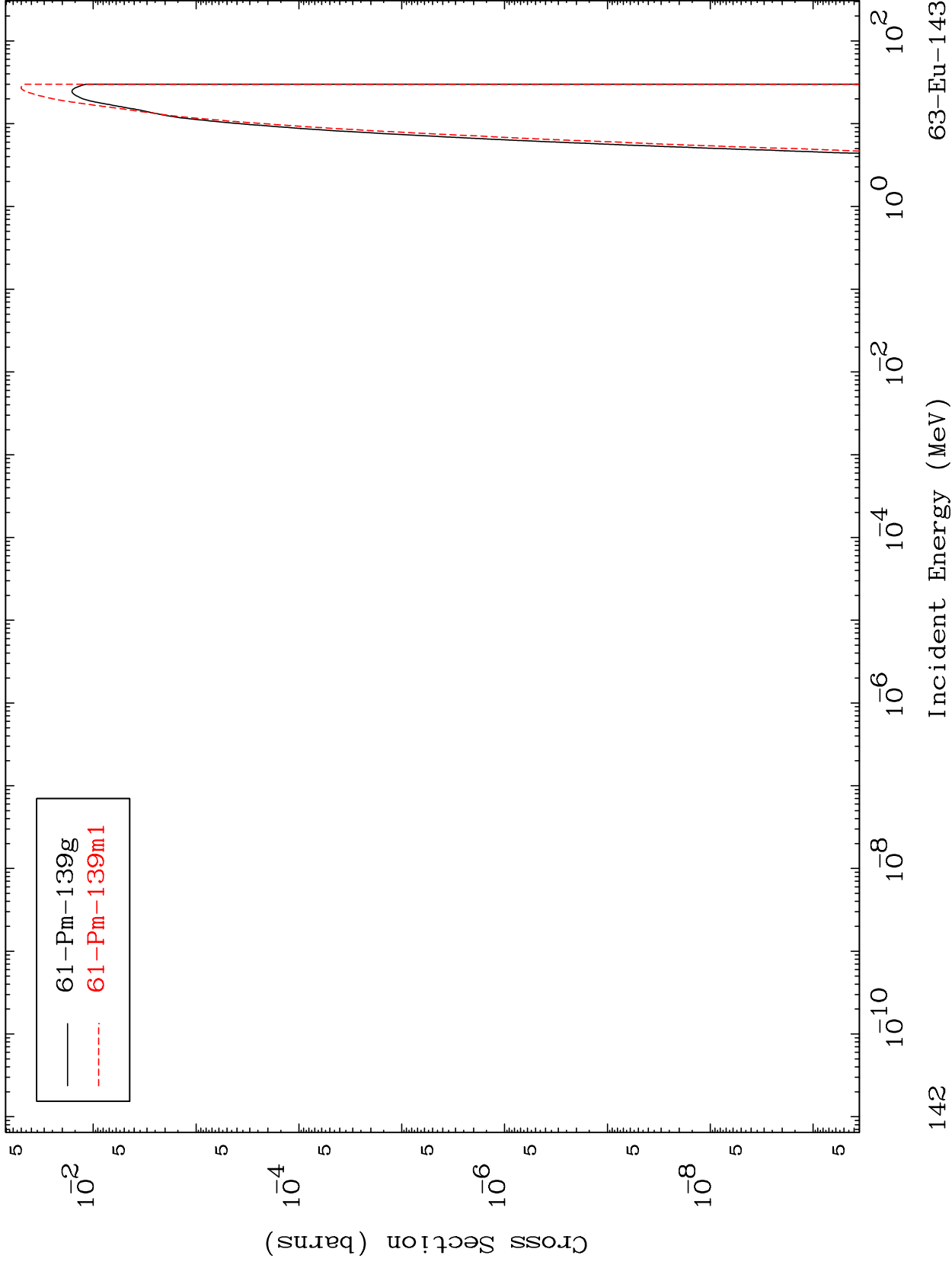
63-Eu-143

MAT 6301

$(n, n') \alpha$

63-Eu-143

Radionuclide Production Cross Section



142

Incident Energy (MeV)

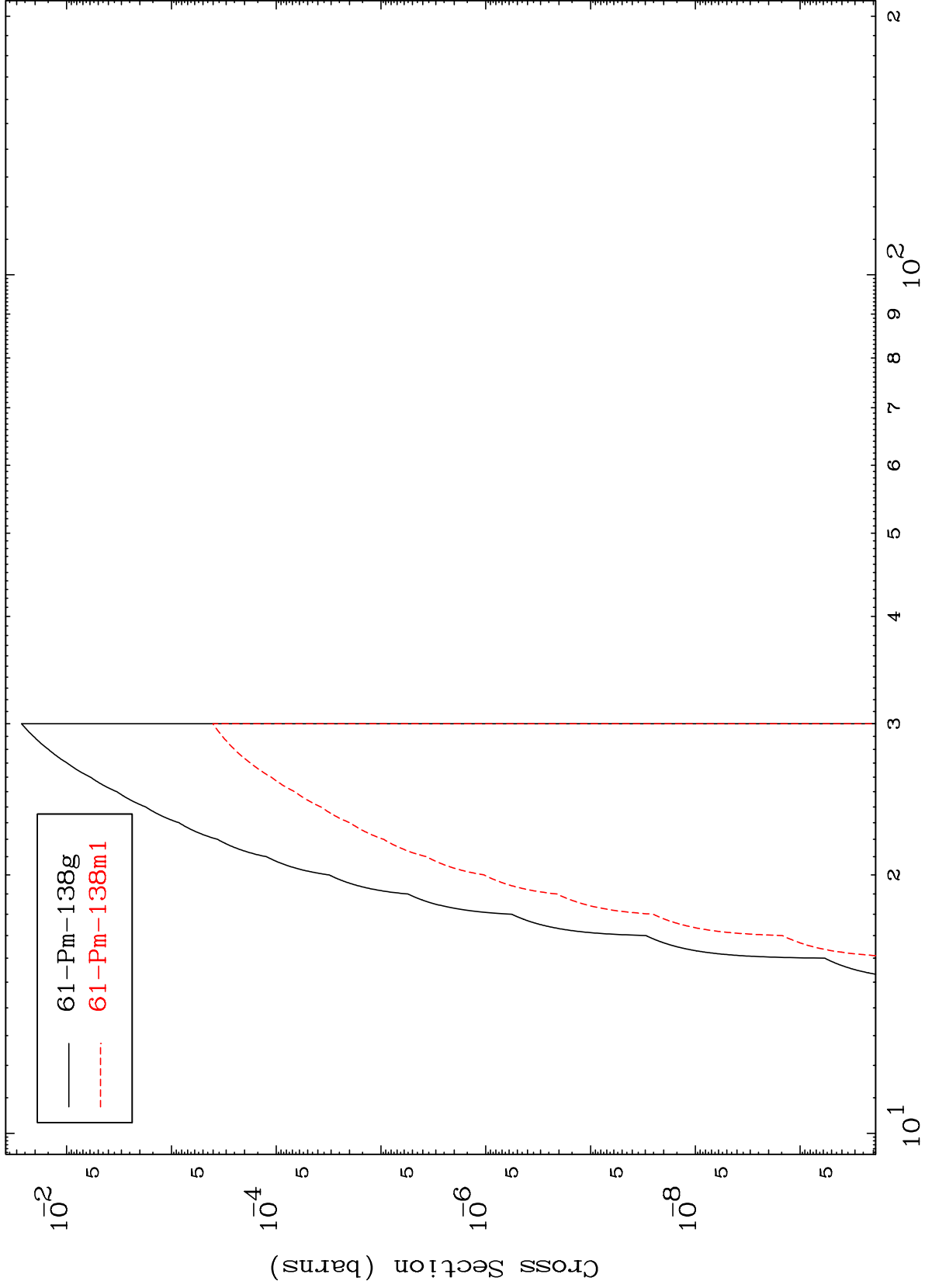
63-Eu-143

MAT 6301

(n,2n) α

63-Eu-143

Radionuclide Production Cross Section



Incident Energy (MeV)

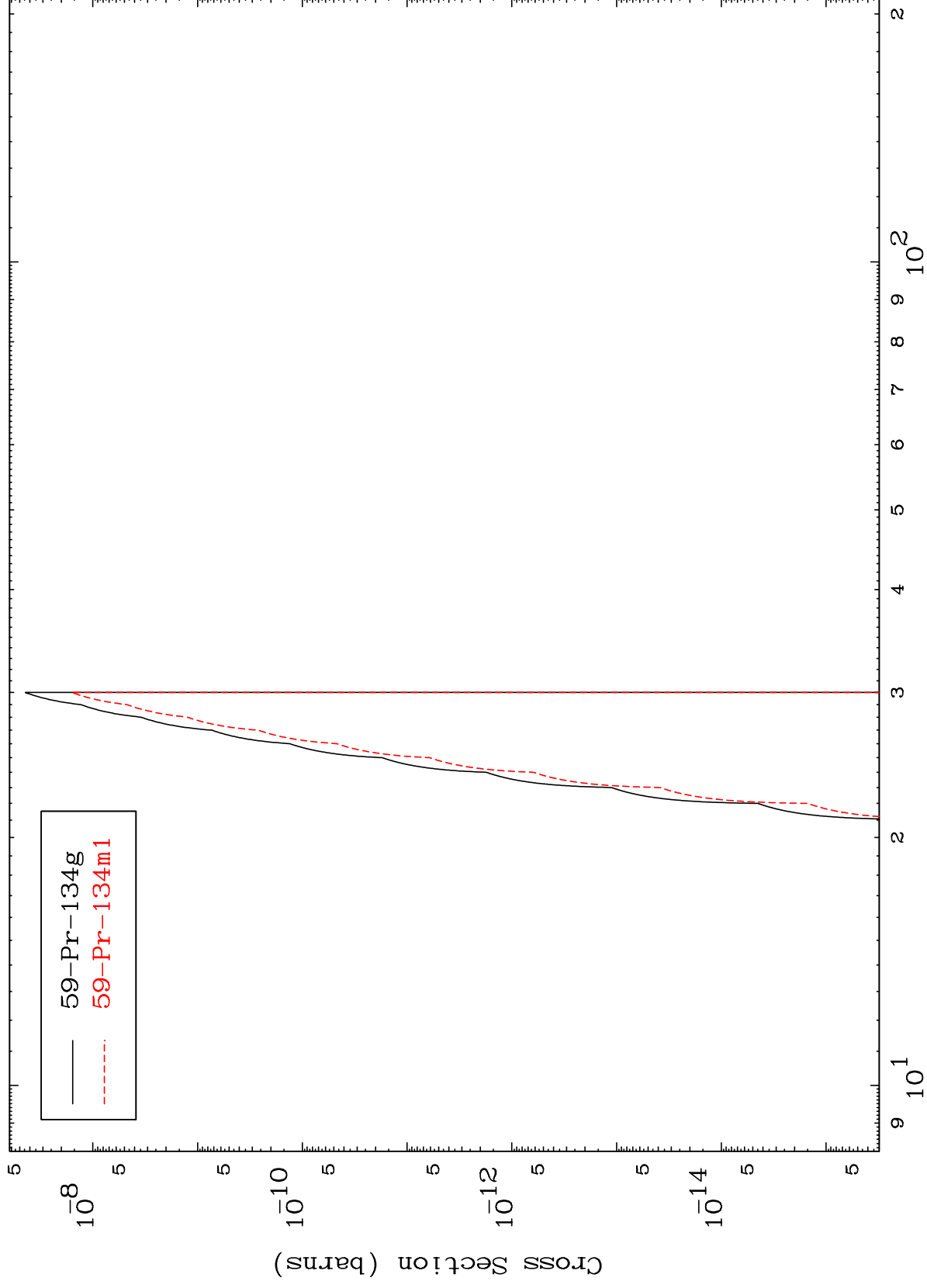
63-Eu-143

143

MAT 6301

63-Eu-143

(n,2n) 2α
Radionuclide Production Cross Section



63-Eu-143

Incident Energy (MeV)

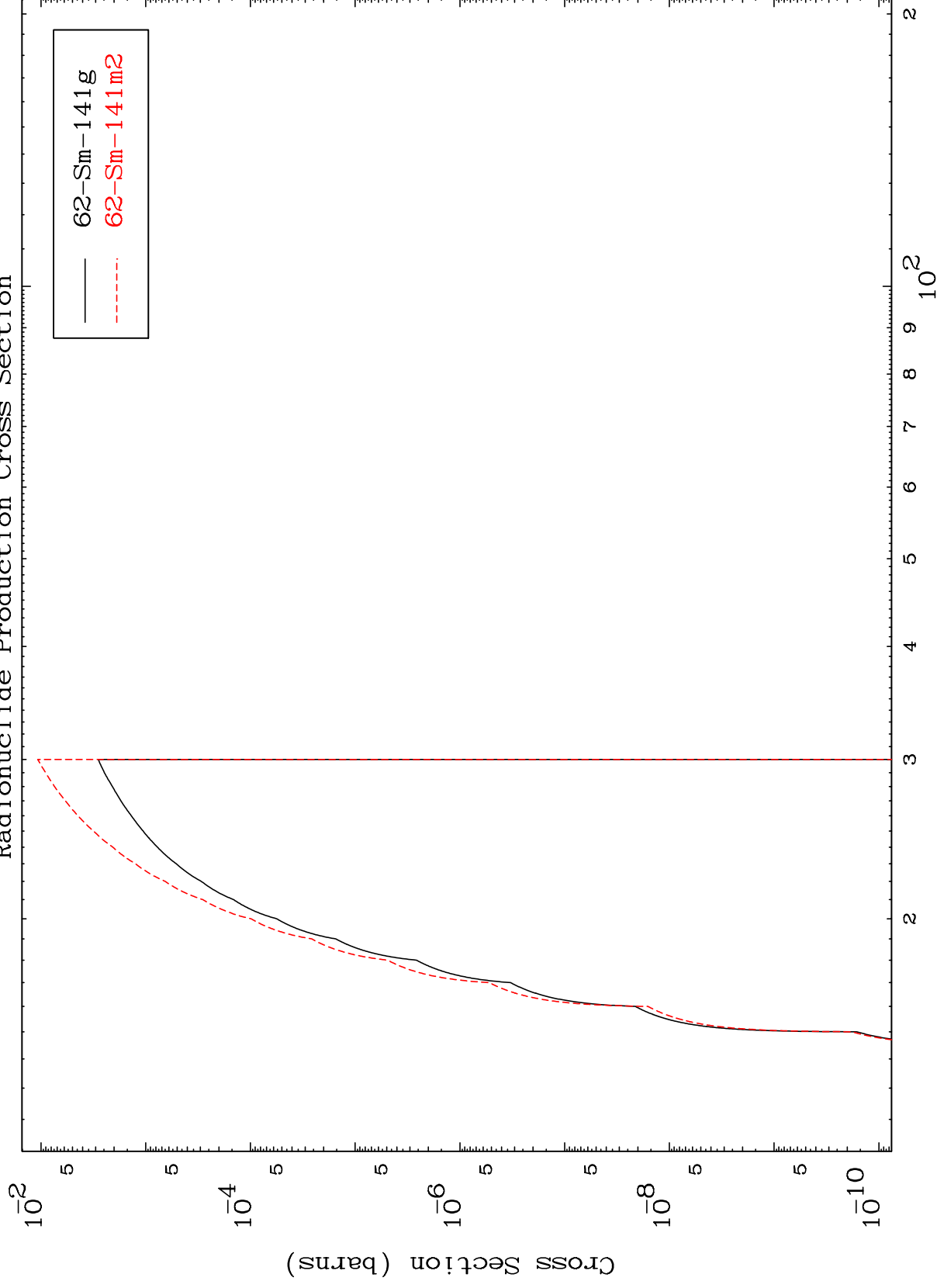
144

MAT 6301

(n,n') d

63-Eu-143

Radionuclide Production Cross Section



145

Incident Energy (MeV)

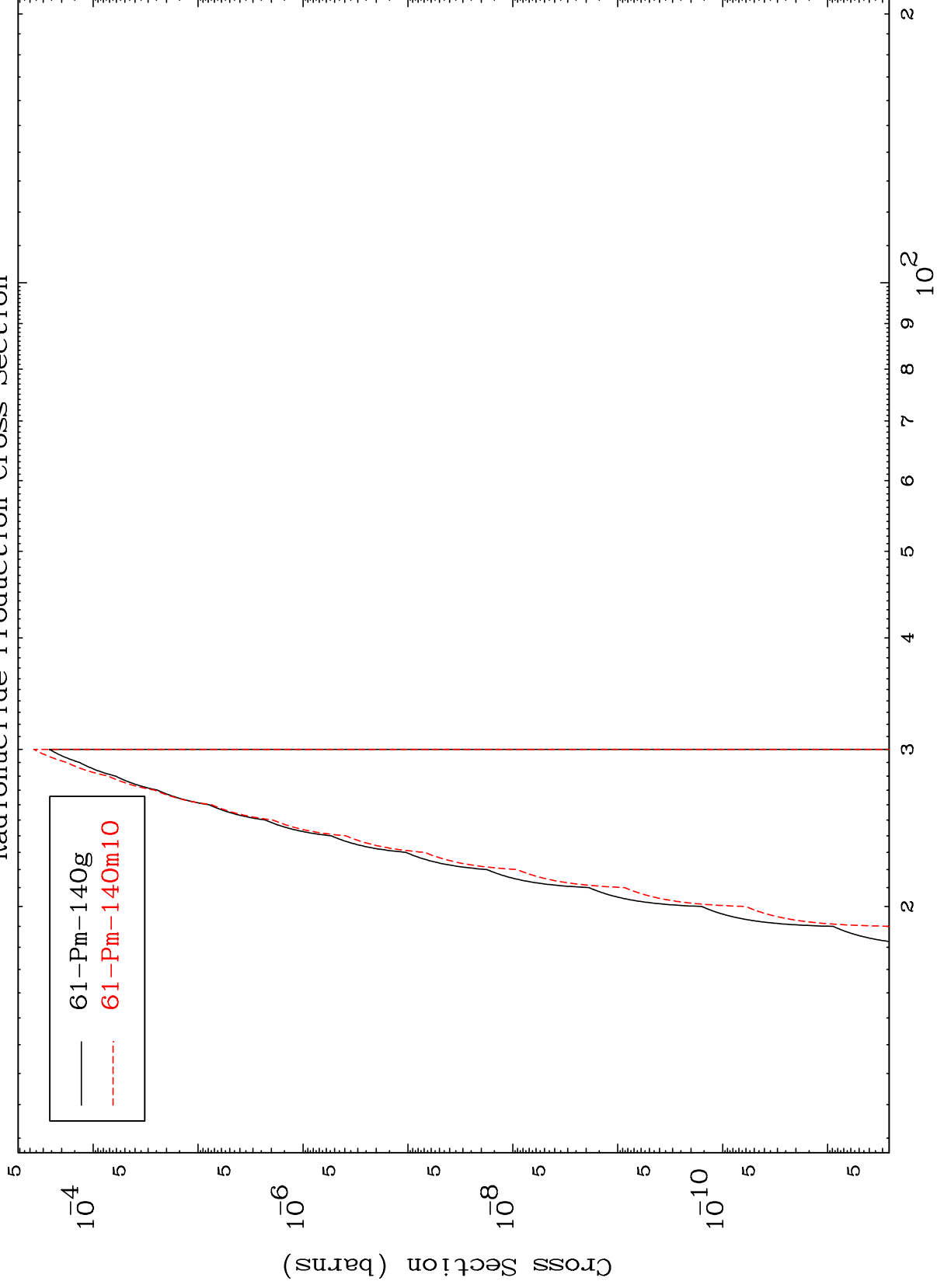
63-Eu-143

MAT 6301

(n,n') He-3

63-Eu-143

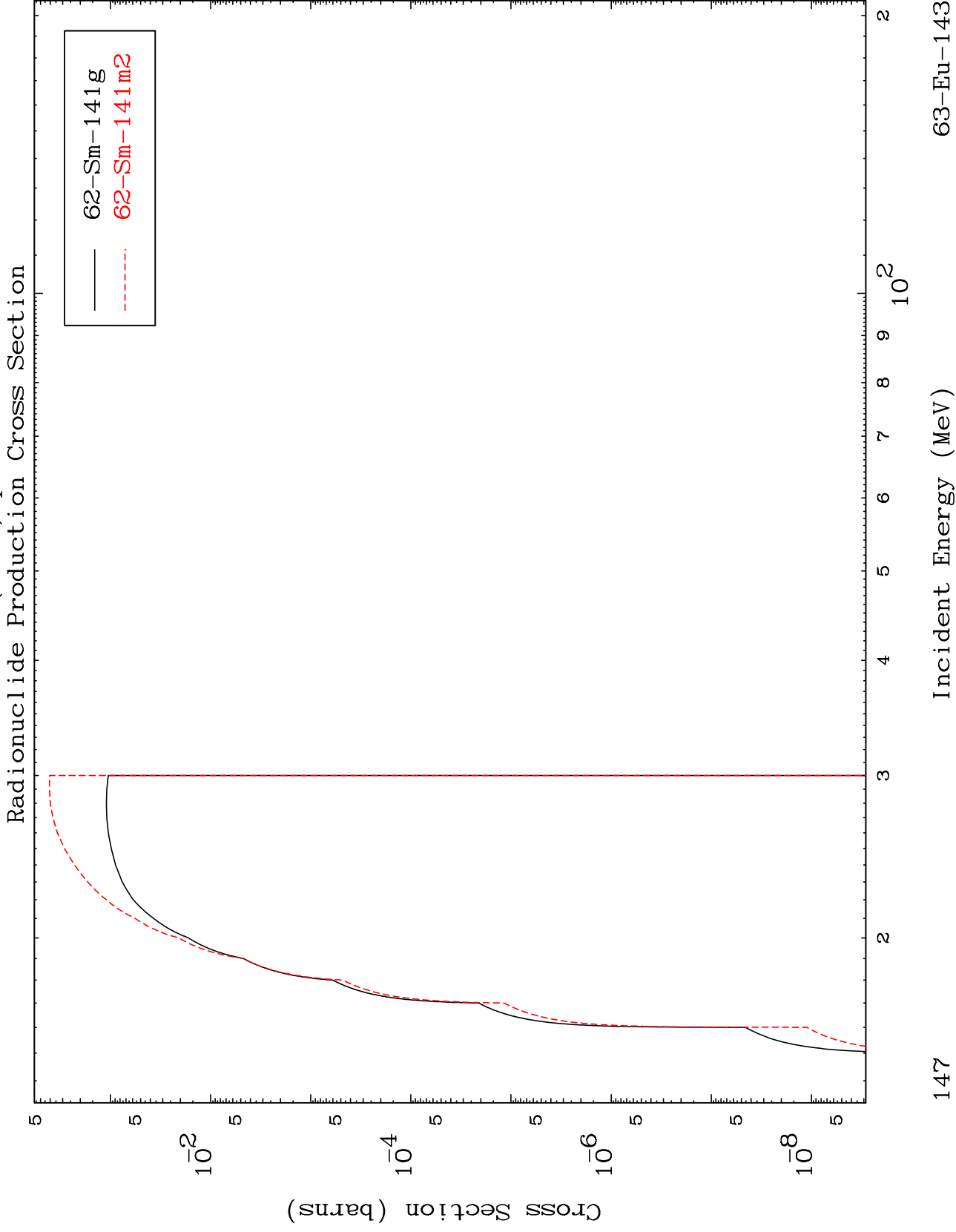
Radionuclide Production Cross Section



146

Incident Energy (MeV)

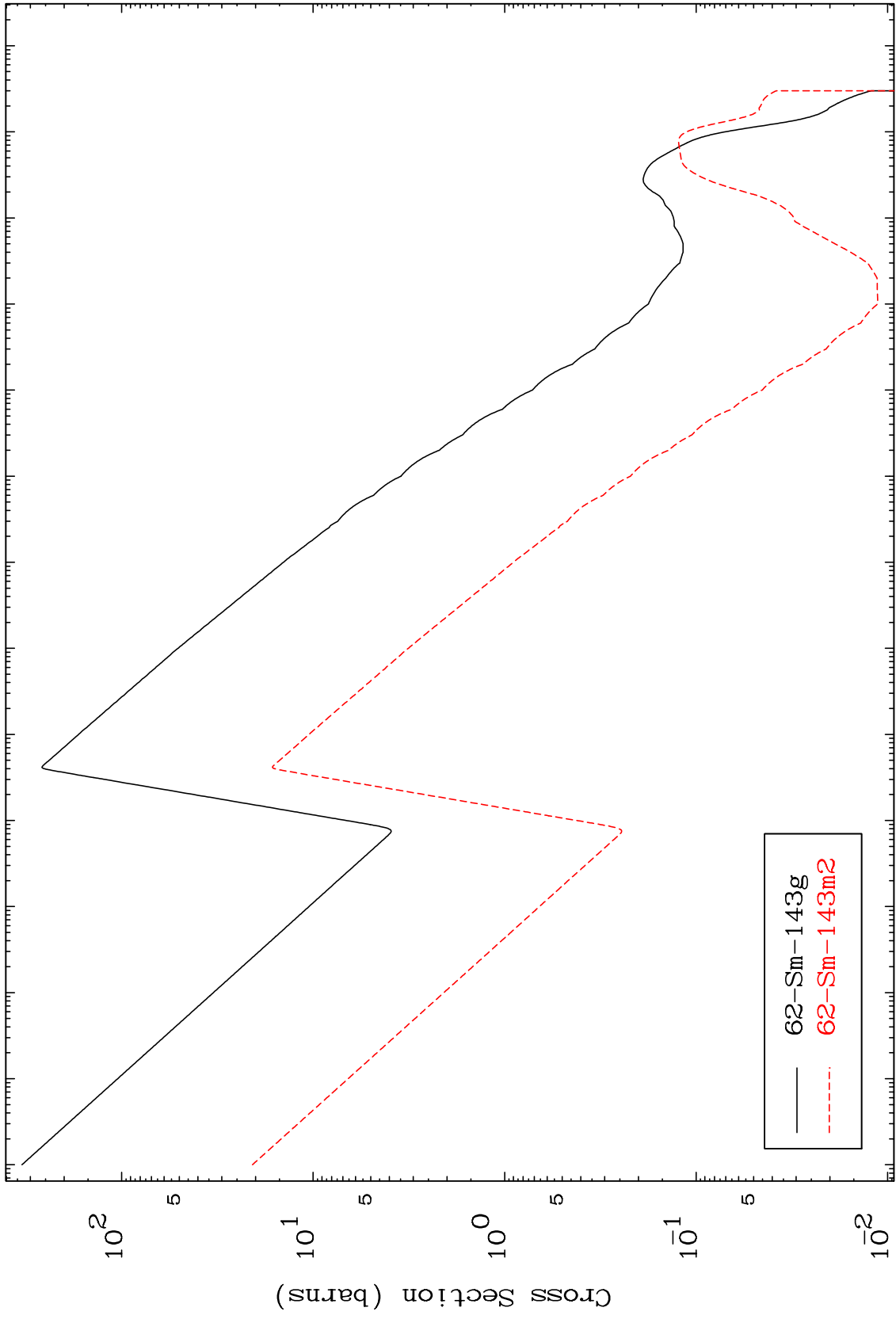
63-Eu-143



MAT 6301

63-Eu-143

Radionuclide Production Cross Section



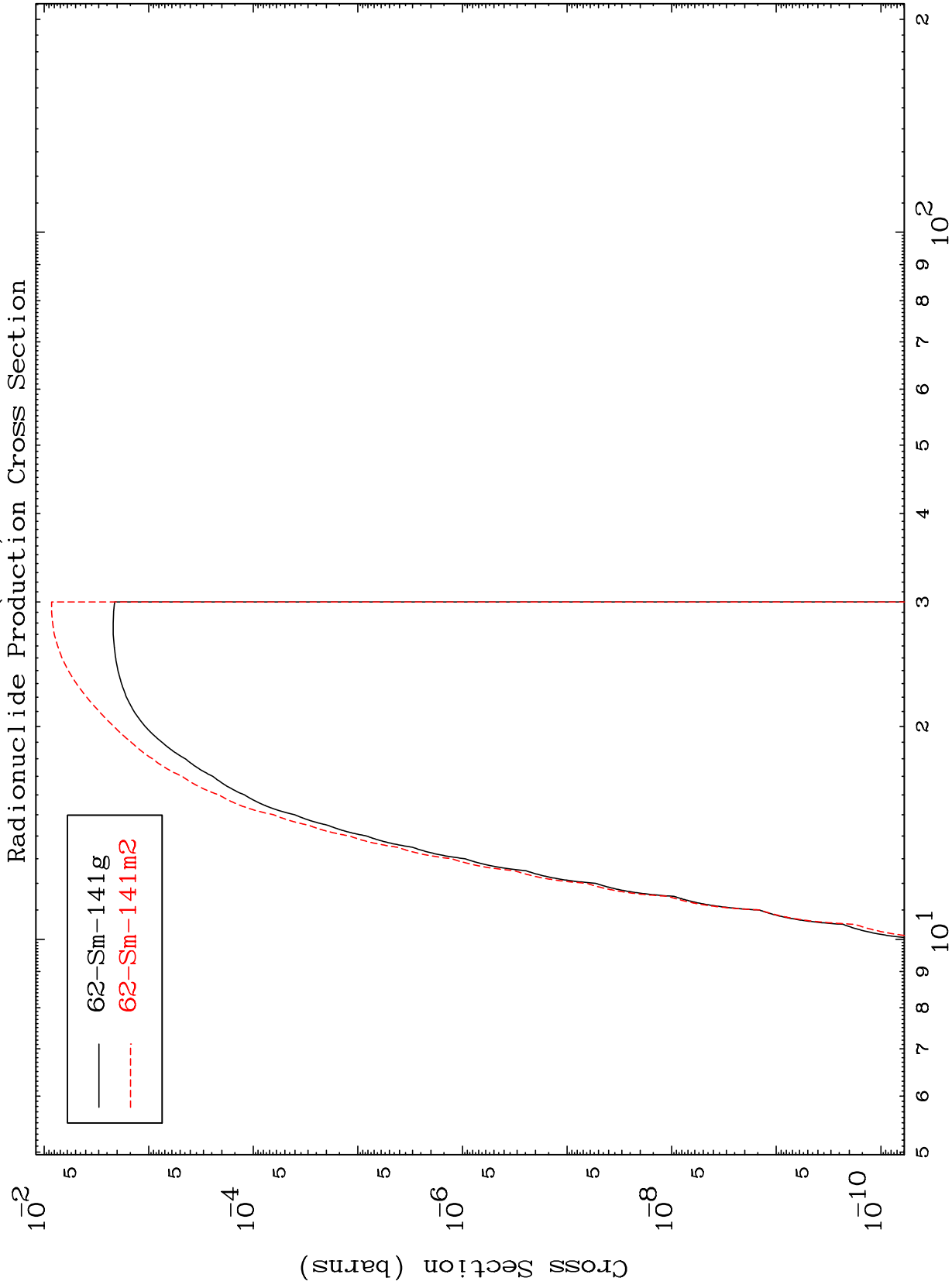
63-Eu-143

Incident Energy (MeV)

148

MAT 6301

63-Eu-143



62-Sm-141g
62-Sm-141m2

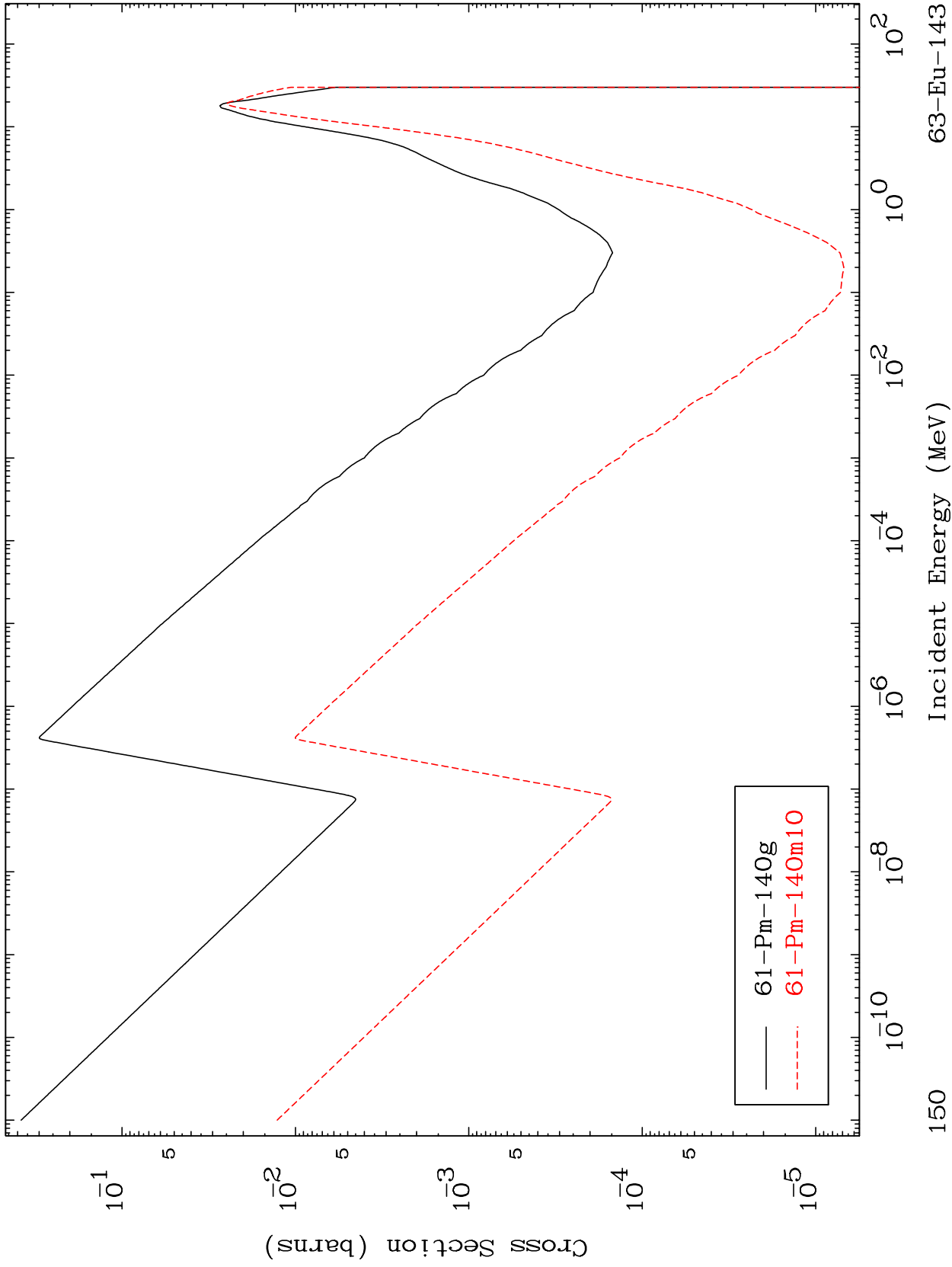
149

63-Eu-143

MAT 6301

63-Eu-143

Radionuclide Production Cross Section
(n, α)



150

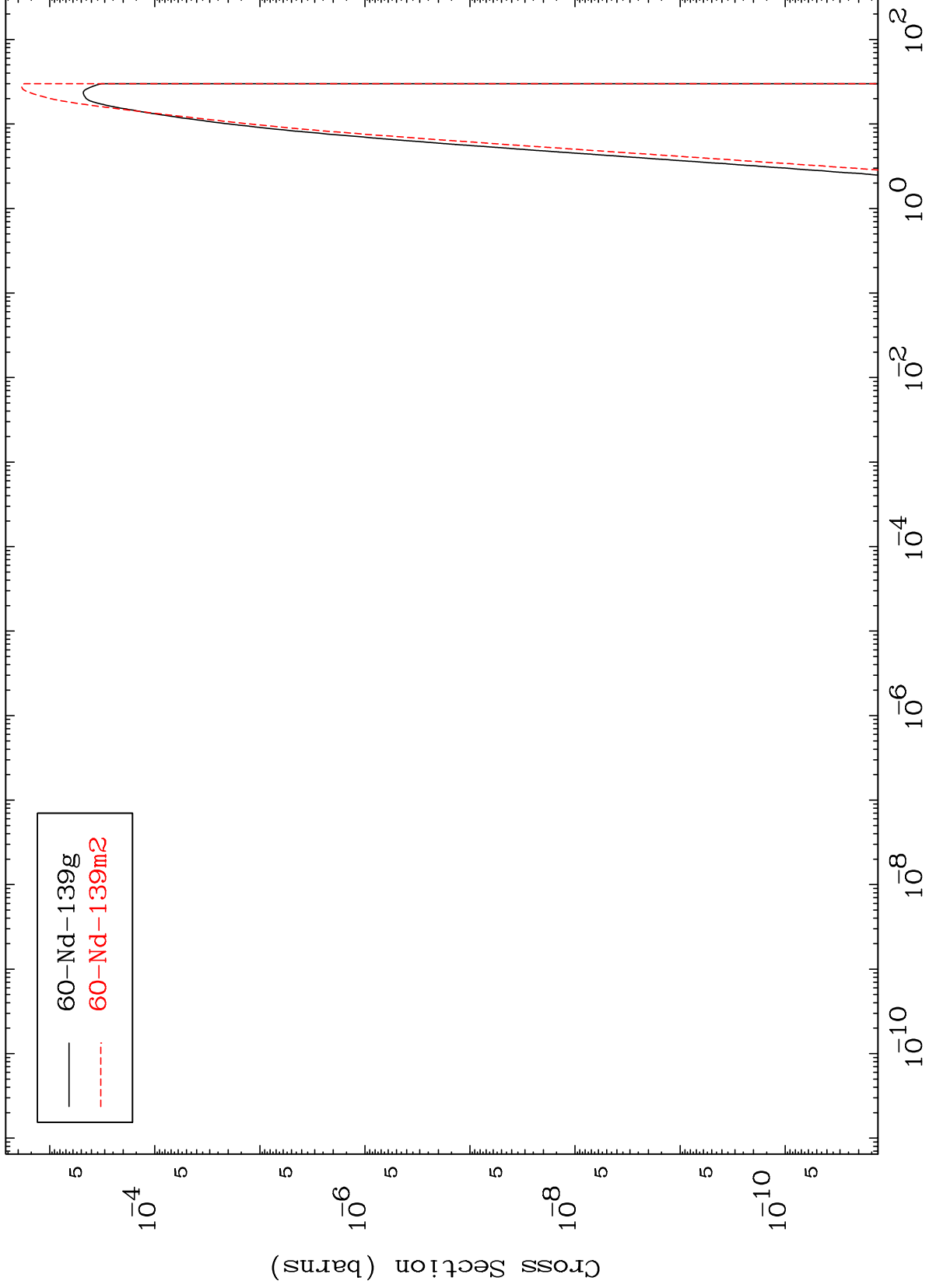
63-Eu-143

MAT 6301

(n,p) α

⁶³Eu-143

Radionuclide Production Cross Section



151

Incident Energy (MeV)

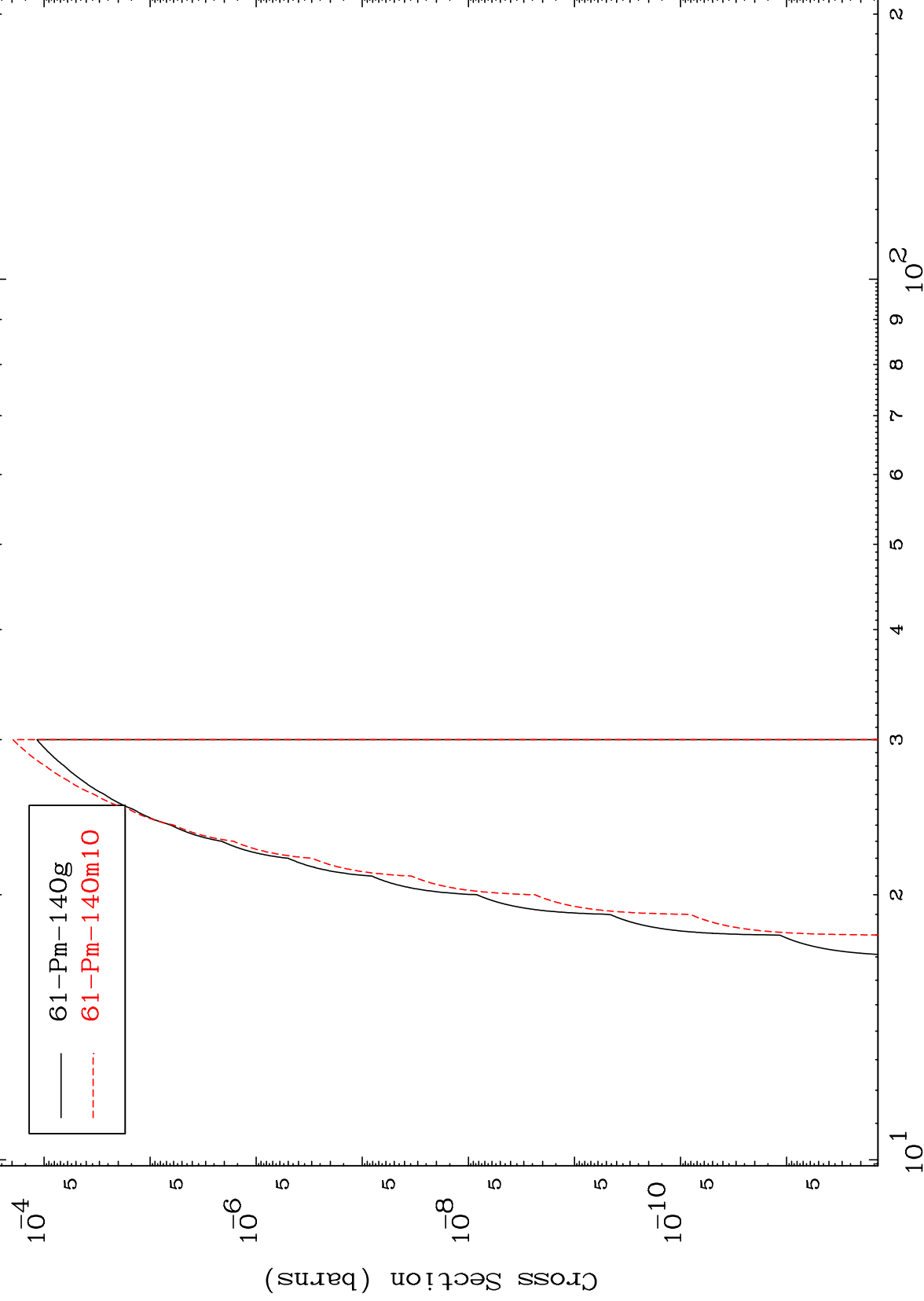
⁶³Eu-143

MAT 6301

(n,p) t

63-Eu-143

Radionuclide Production Cross Section



152

Incident Energy (MeV)

63-Eu-143