

Program EVALPLOT  
(Version 2021-1)

by

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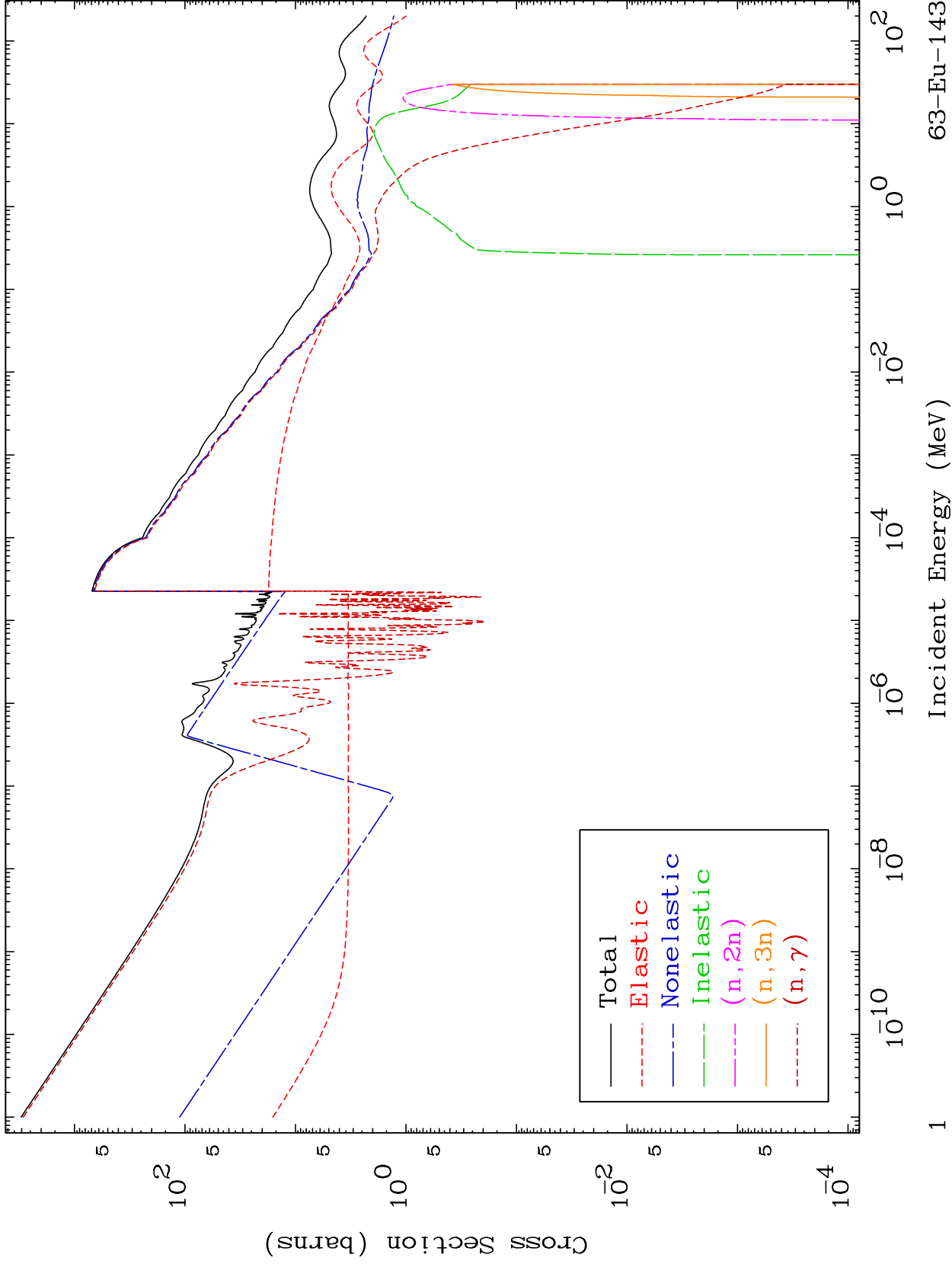
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6301

Neutron Major  
293 Kelvin Cross Sections

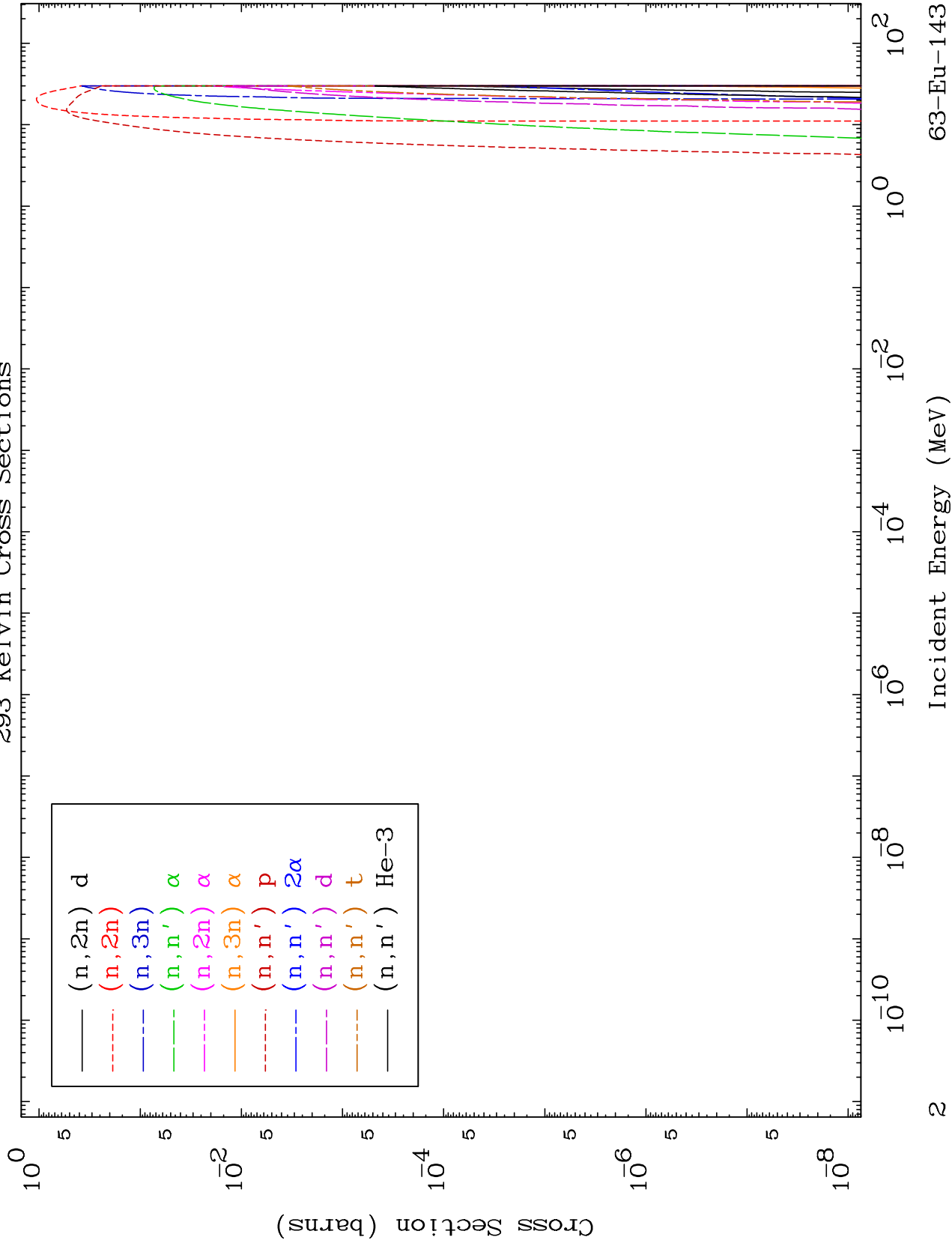
63-Eu-143



MAT 6301

Neutron Absorption  
293 Kelvin Cross Sections

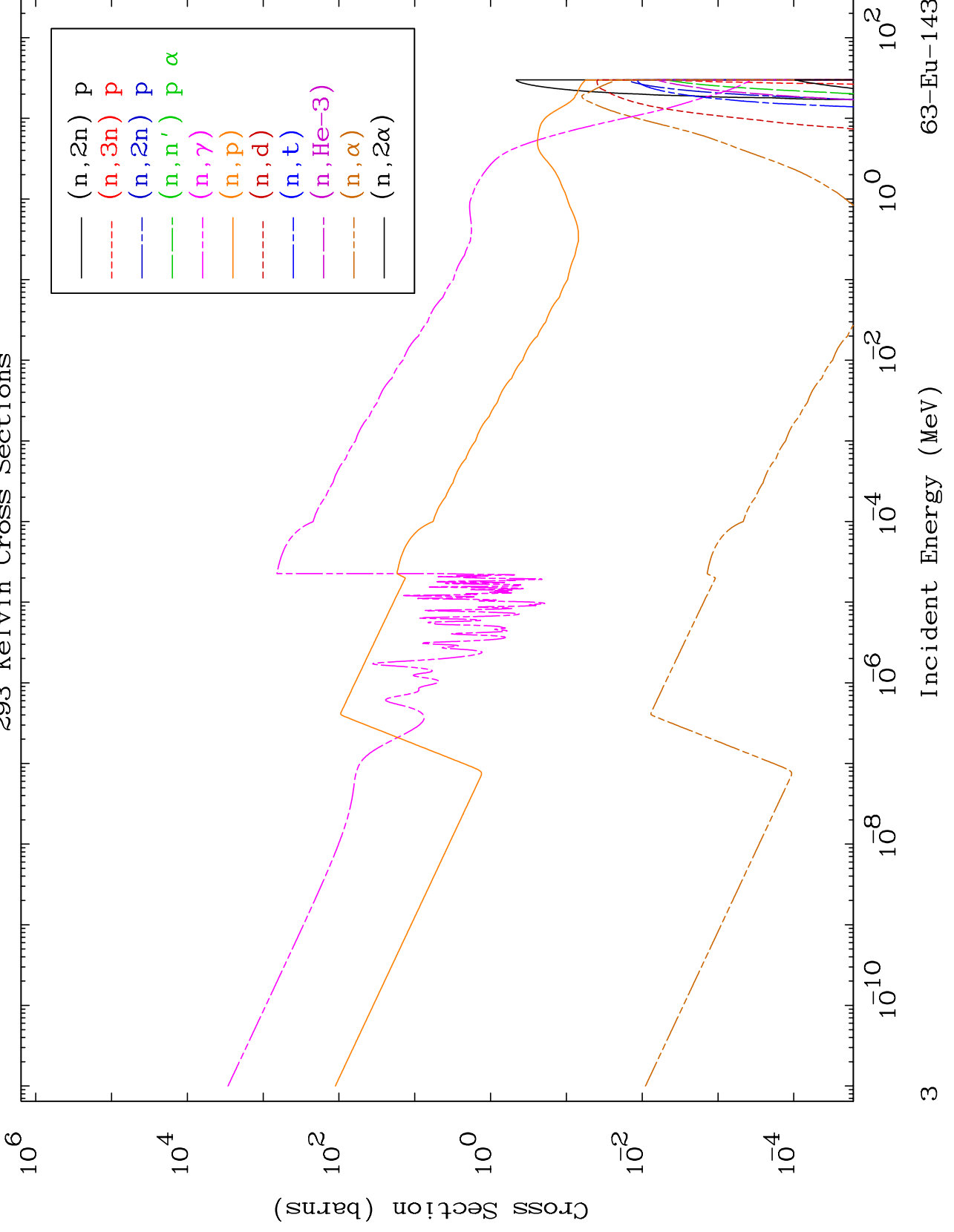
63-Eu-143



MAT 6301

Neutron Absorption  
293 Kelvin Cross Sections

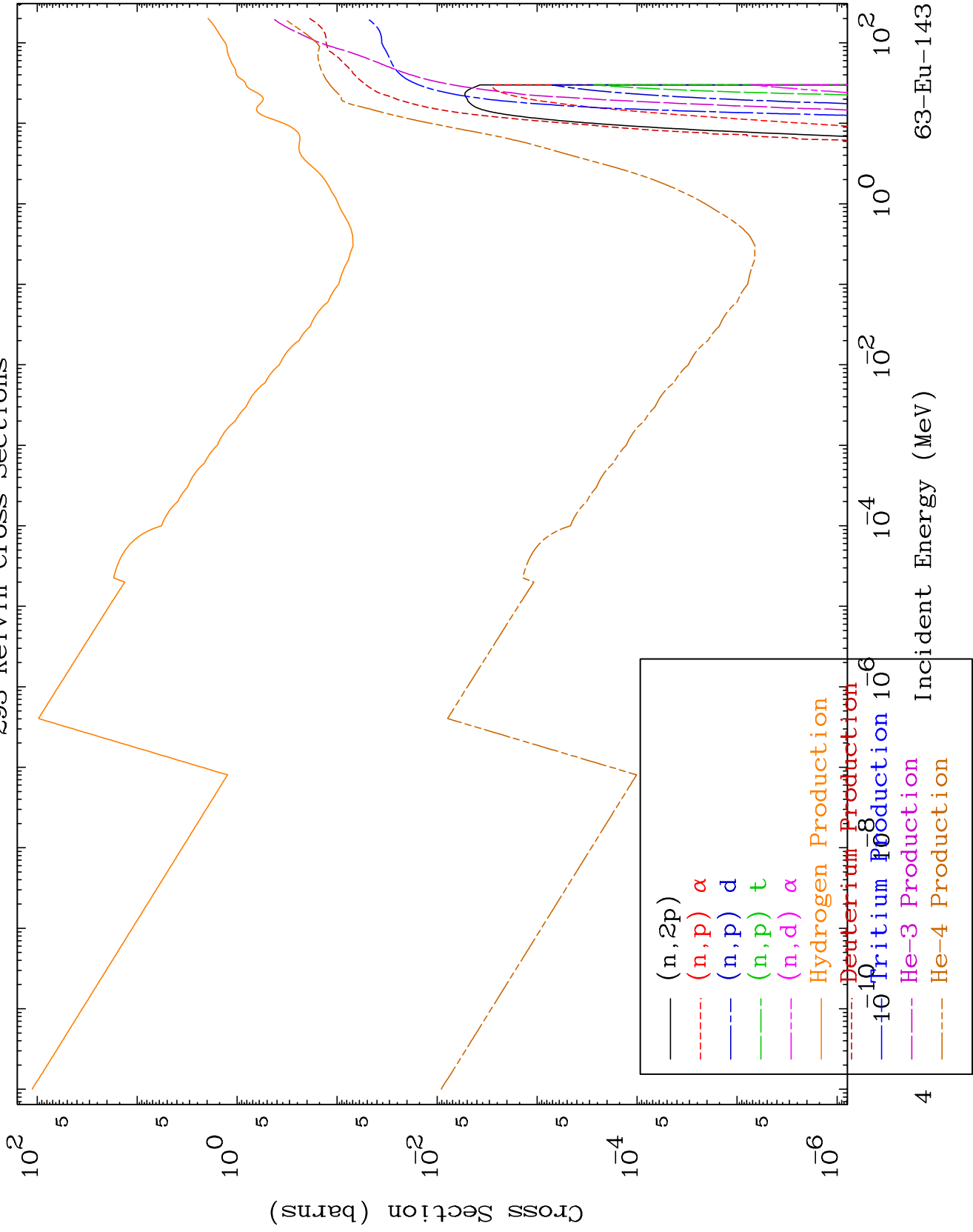
63-Eu-143



MAT 6301

Neutron Absorption  
293 Kelvin Cross Sections

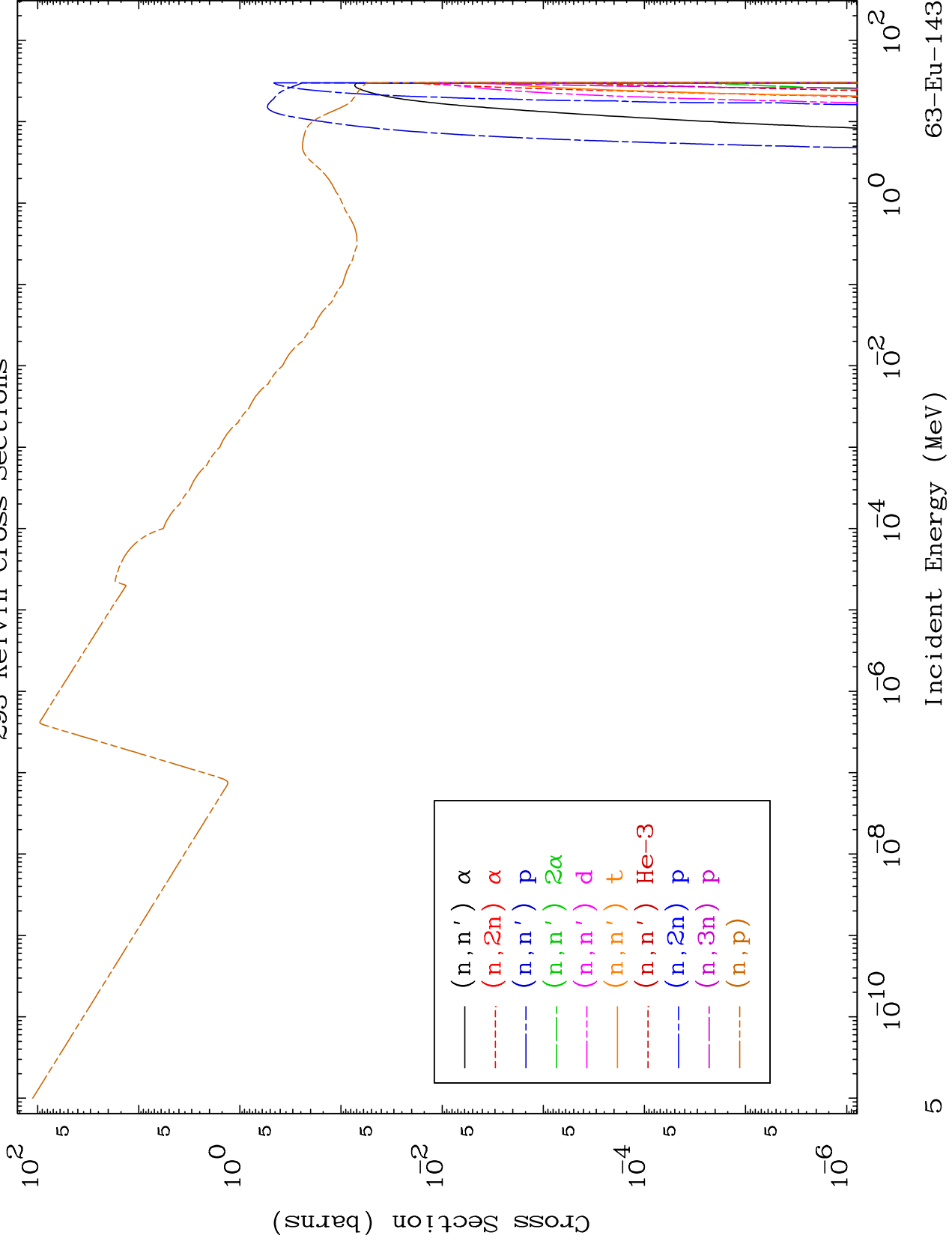
63-Eu-143



MAT 6301

Charged Particle  
293 Kelvin Cross Sections

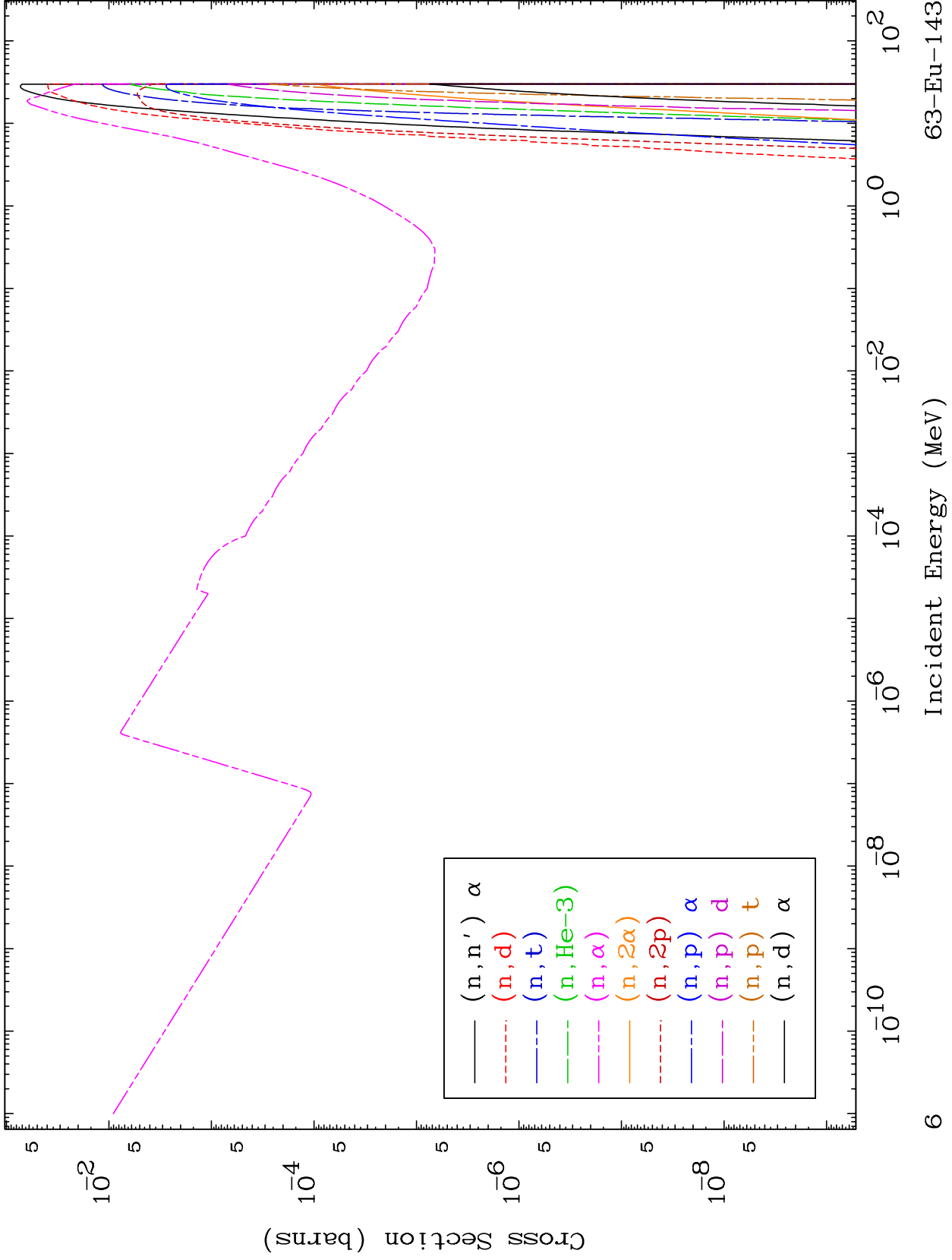
63-Eu-143



MAT 6301

Charged Particle  
293 Kelvin Cross Sections

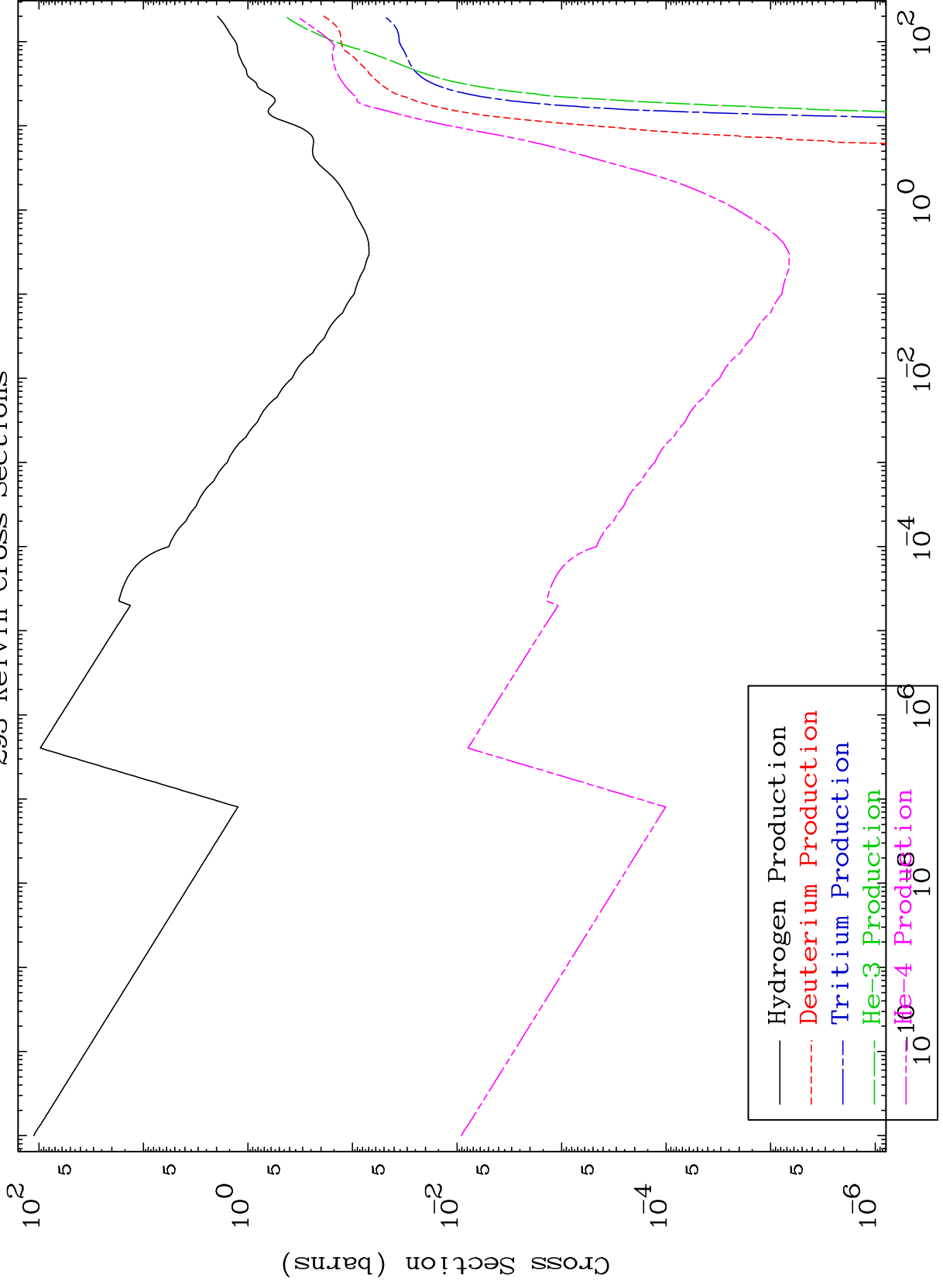
63-Eu-143



MAT 6301

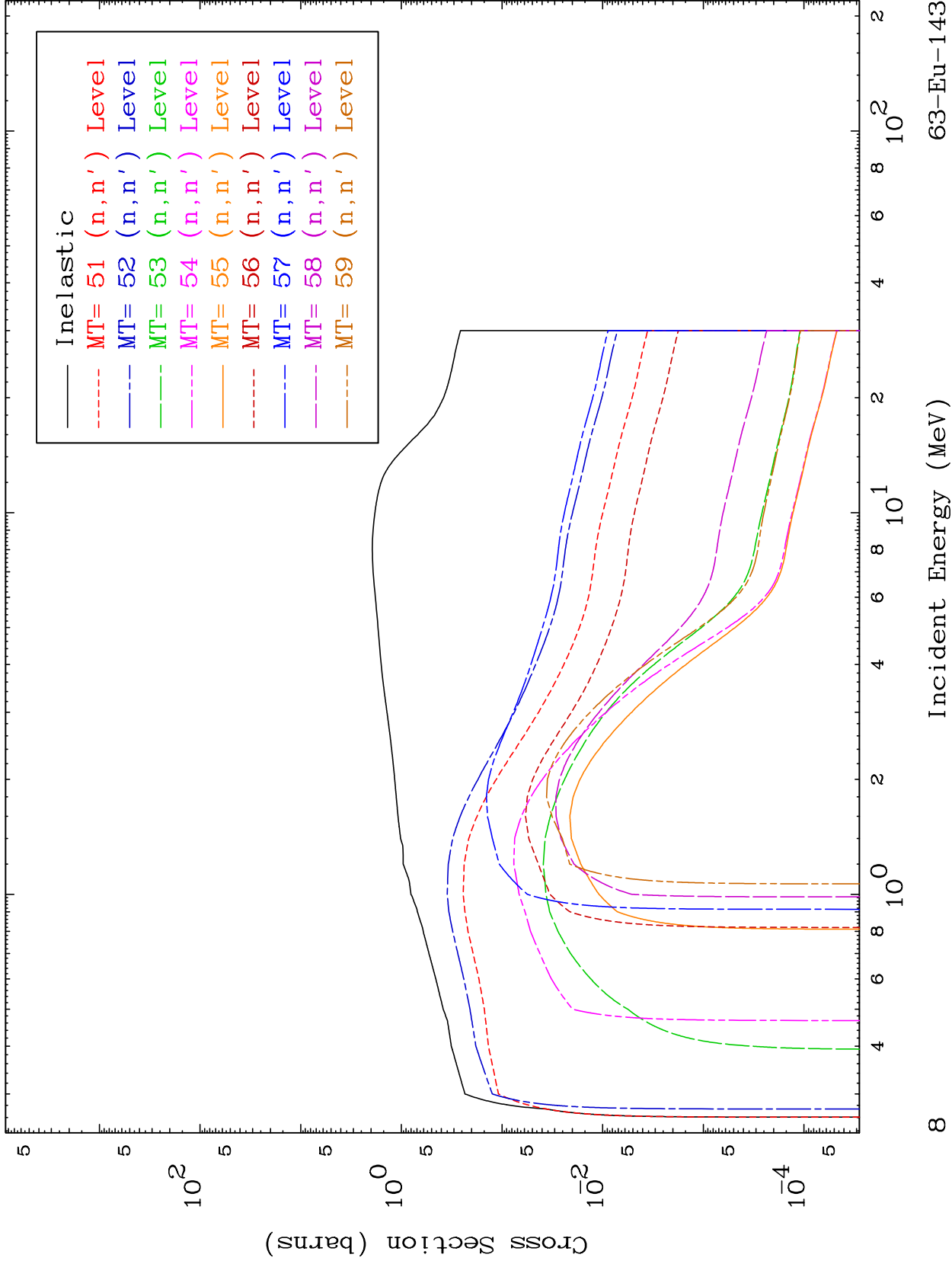
Particle Production  
293 Kelvin Cross Sections

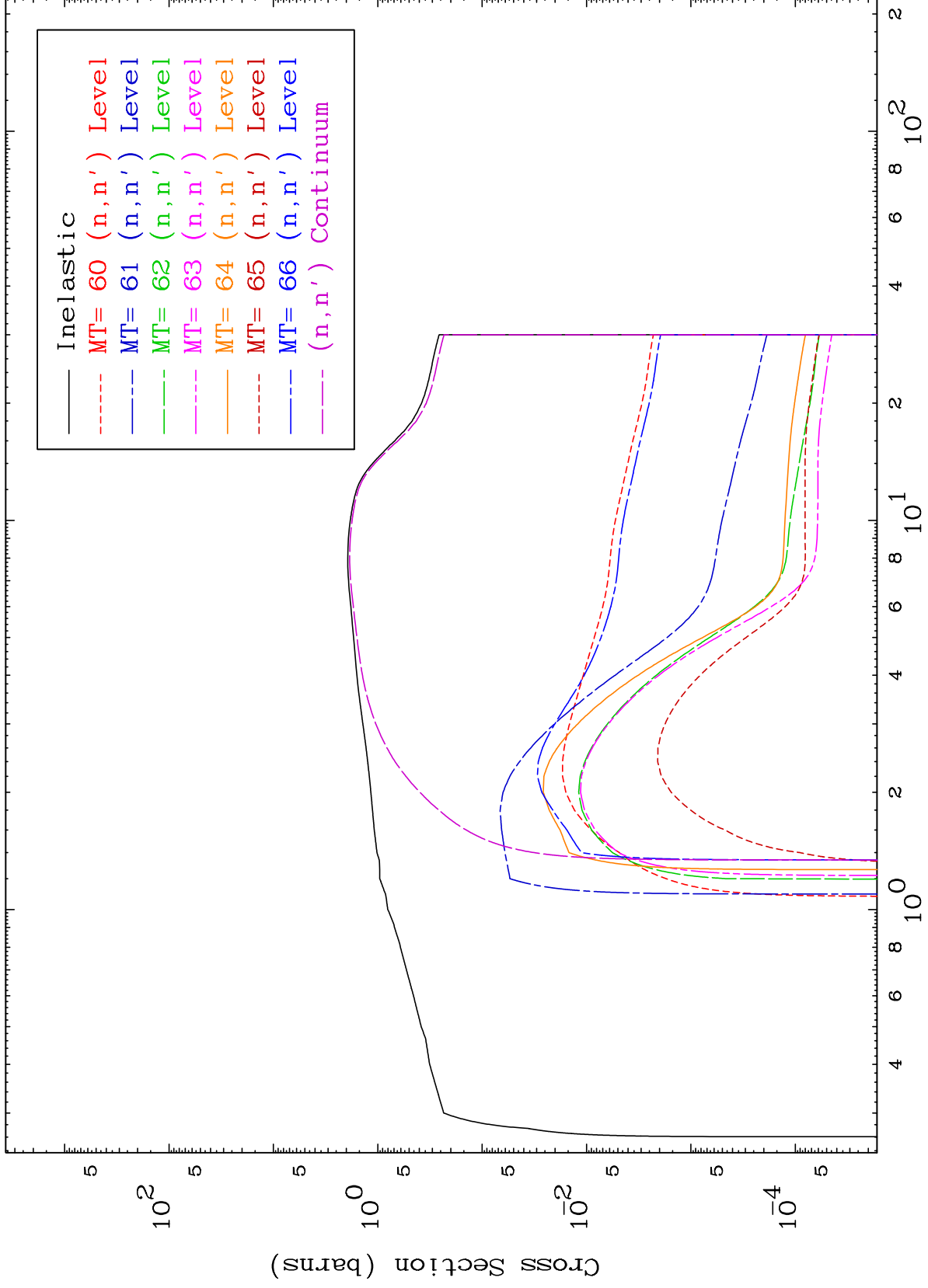
63-Eu-143



63-Eu-143

Incident Energy (MeV)

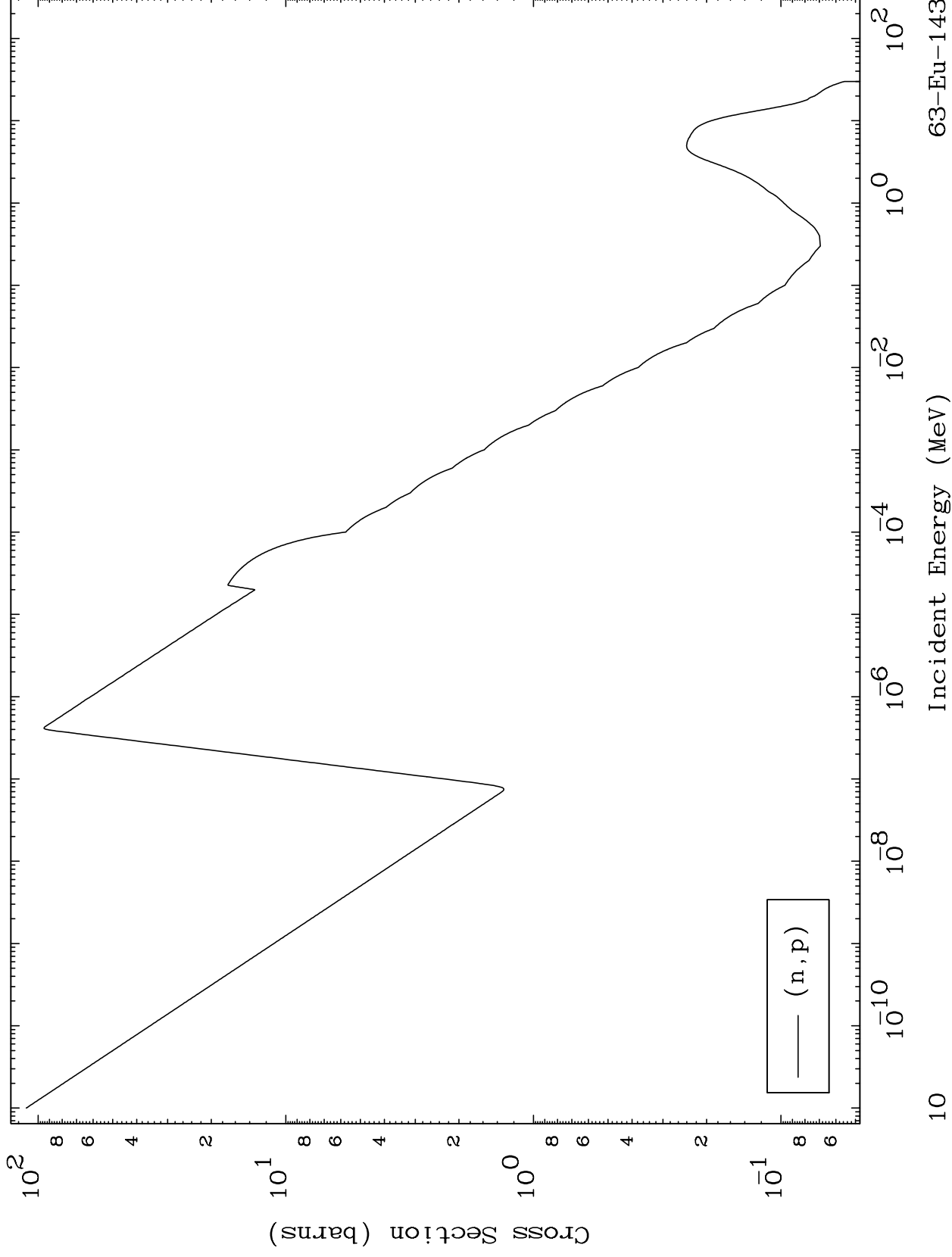




MAT 6301

(n,p) Levels  
293 Kelvin Cross Sections

63-Eu-143



10

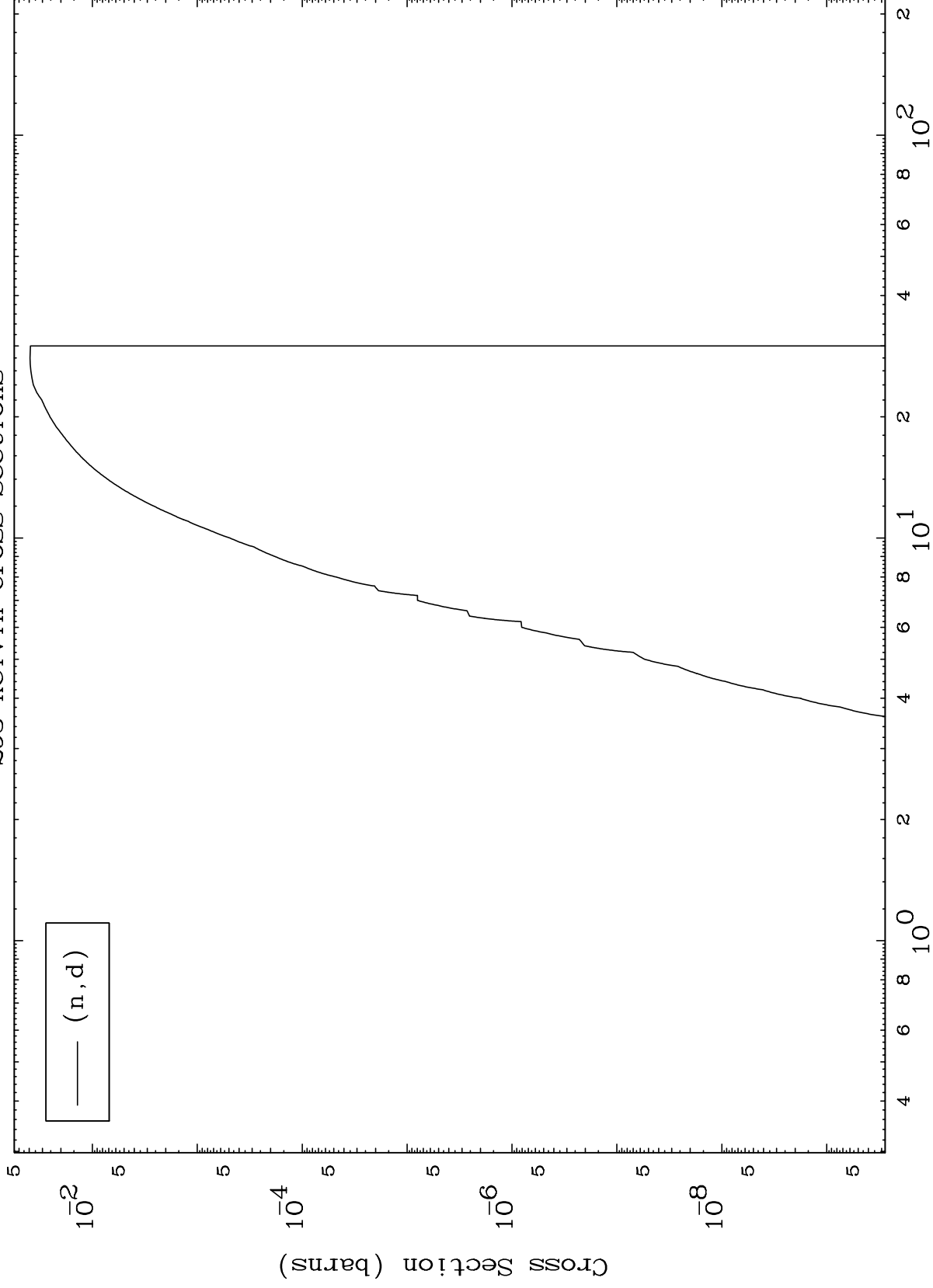
Incident Energy (MeV)

63-Eu-143

MAT 6301

(n,d) Levels  
293 Kelvin Cross Sections

63-Eu-143



(n,d)

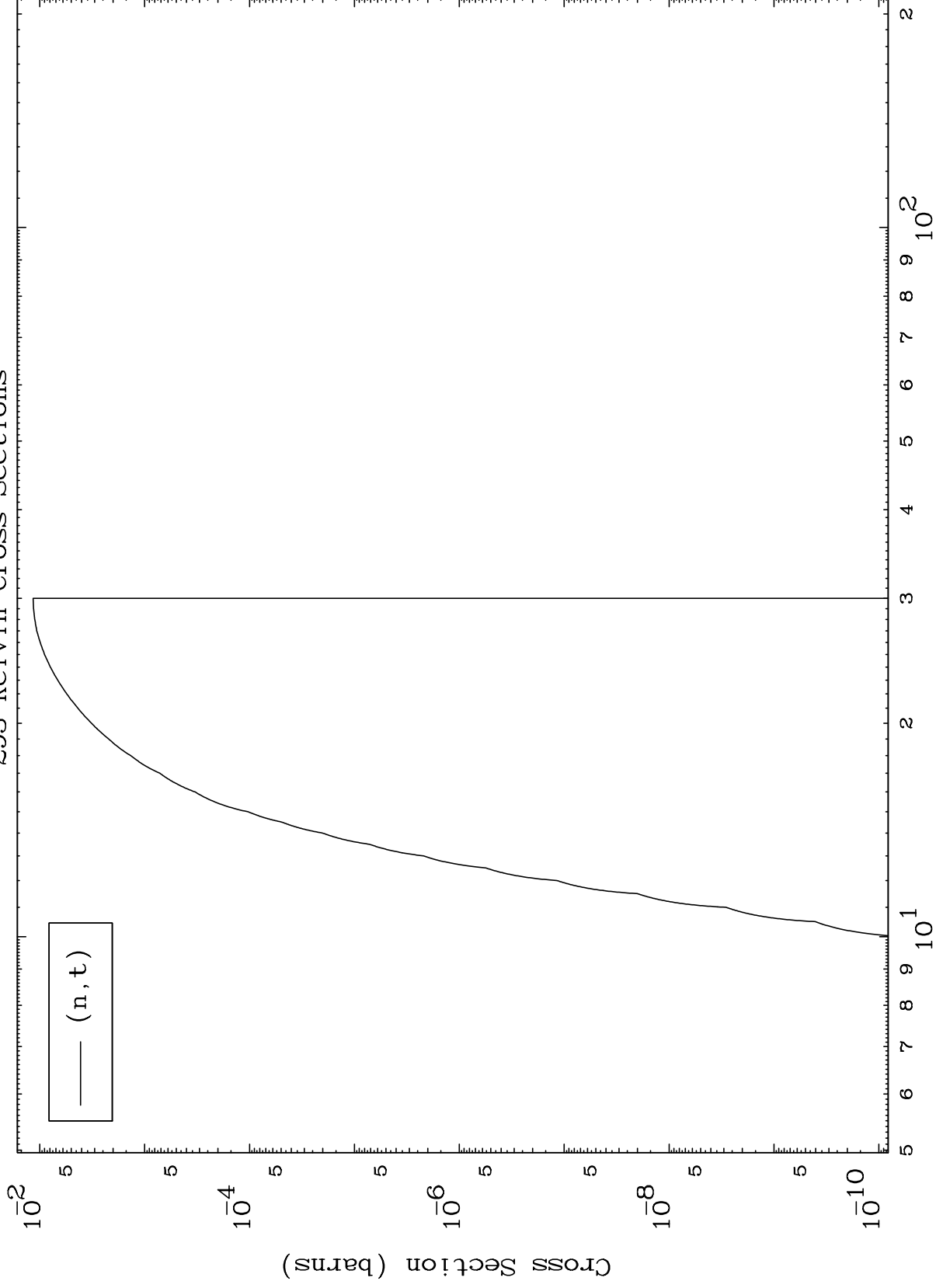
Incident Energy (MeV)

63-Eu-143

MAT 6301

(n,t) Levels  
293 Kelvin Cross Sections

63-Eu-143



12

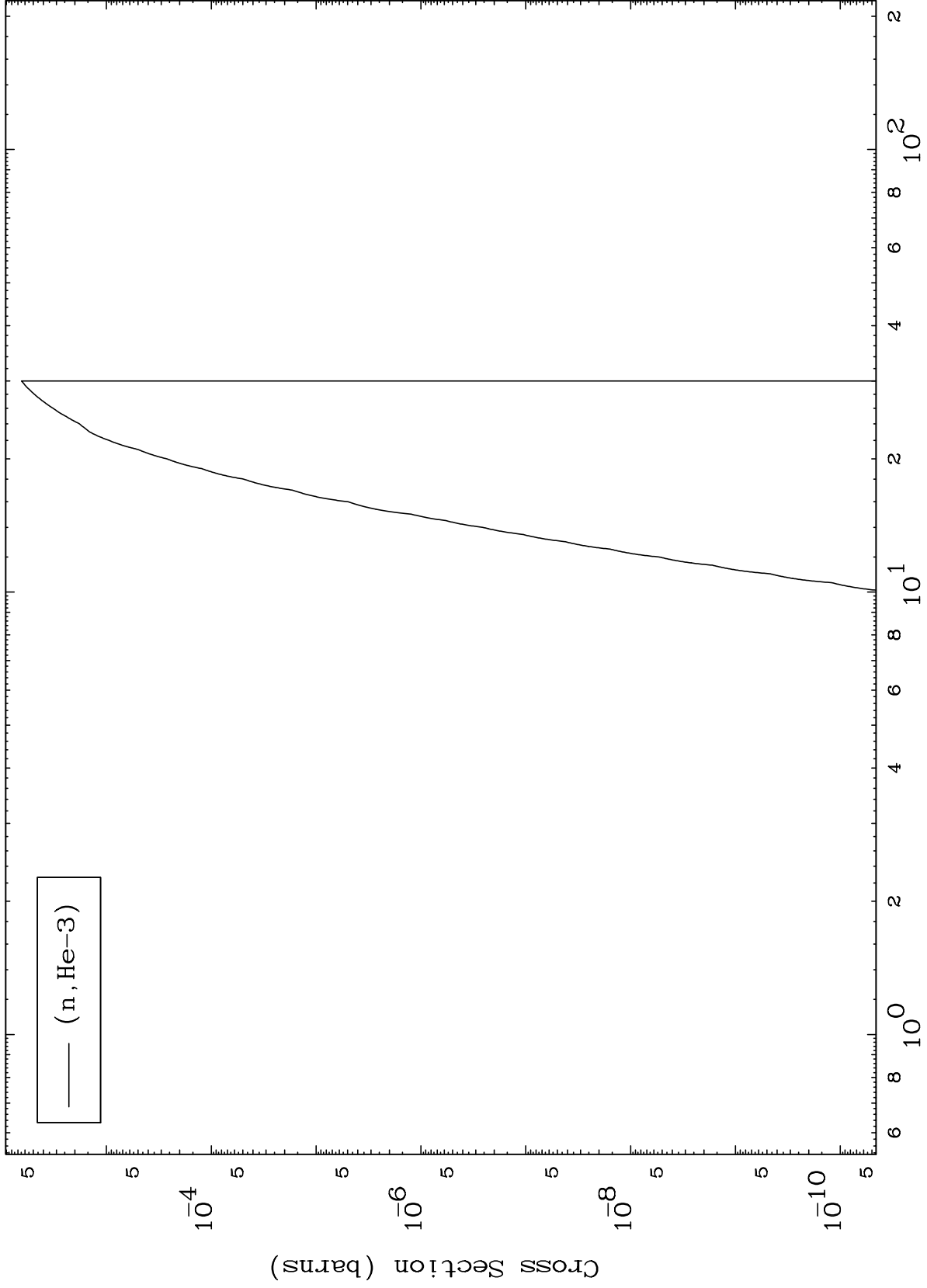
Incident Energy (MeV)

63-Eu-143

MAT 6301

(n,He3) Levels  
293 Kelvin Cross Sections

63-Eu-143



13

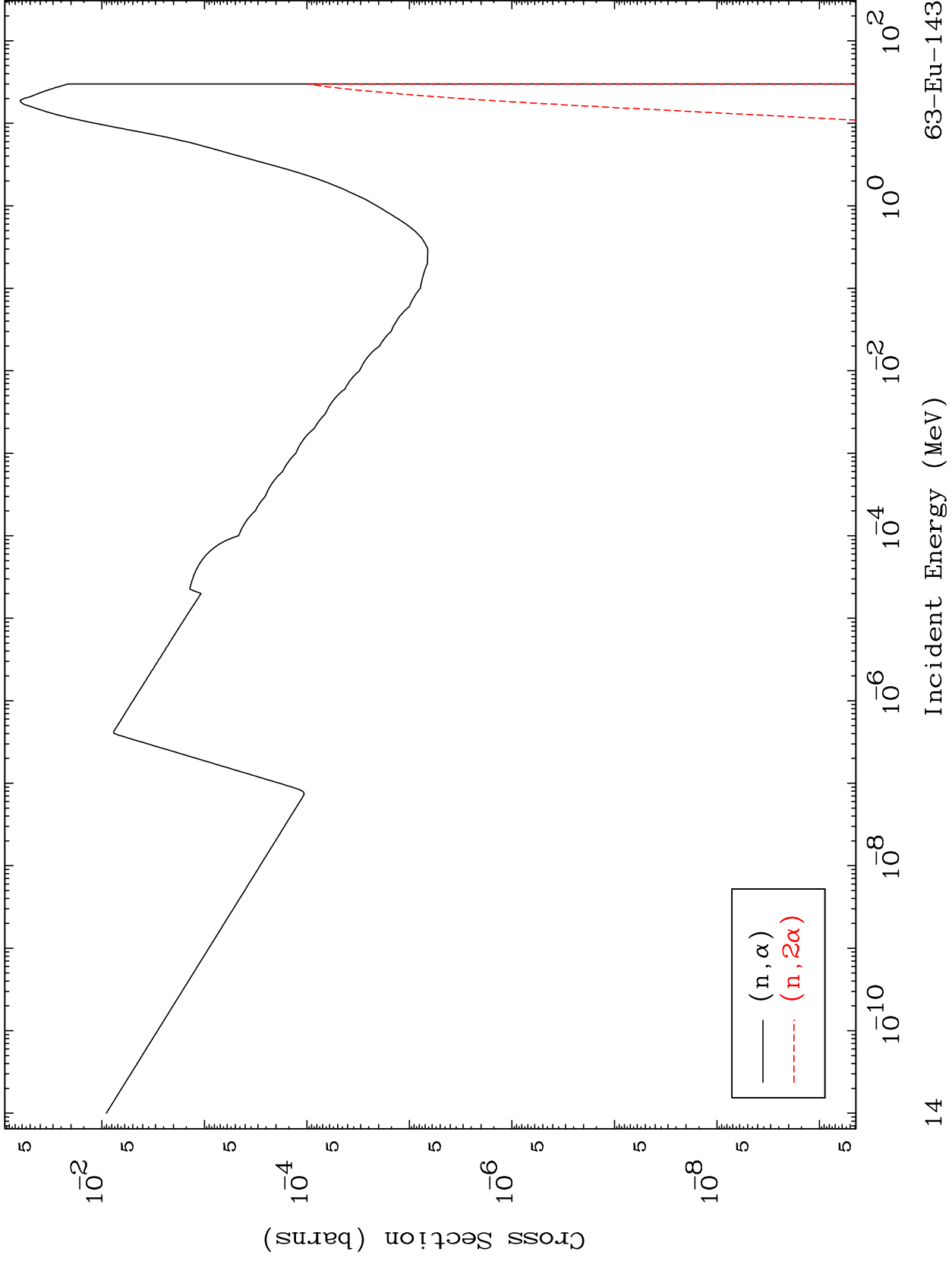
Incident Energy (MeV)

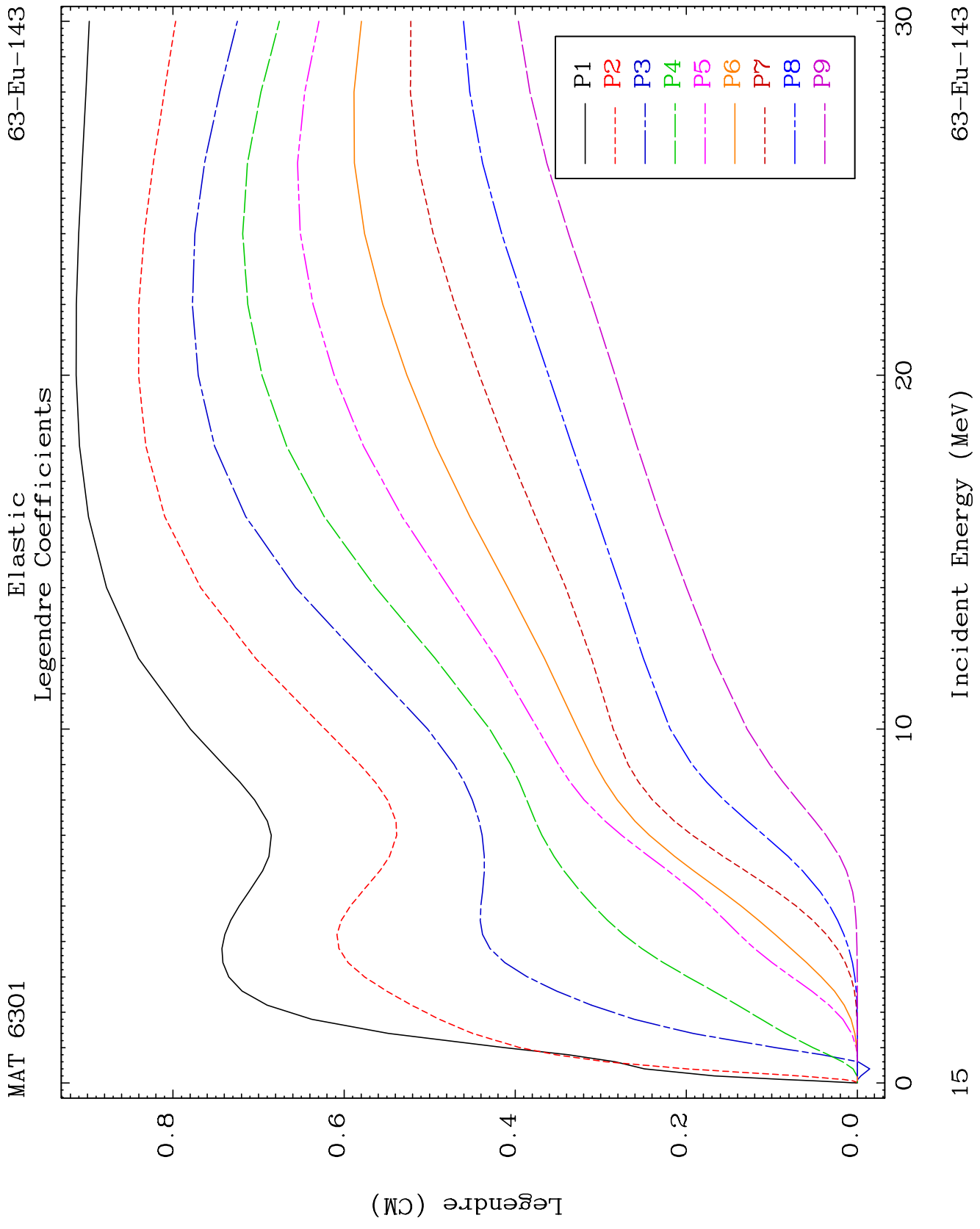
63-Eu-143

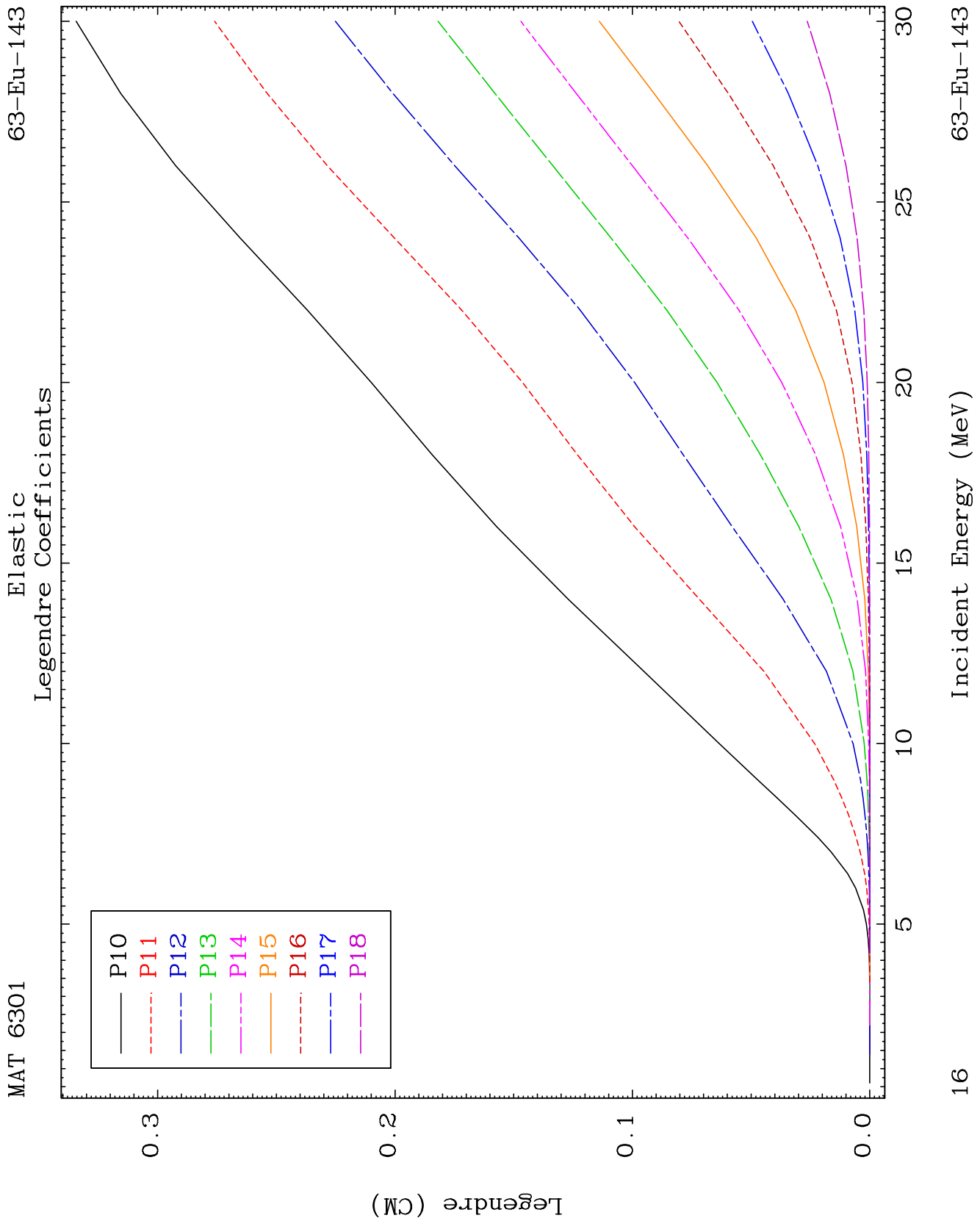
MAT 6301

(n,α) Levels  
293 Kelvin Cross Sections

63-Eu-143



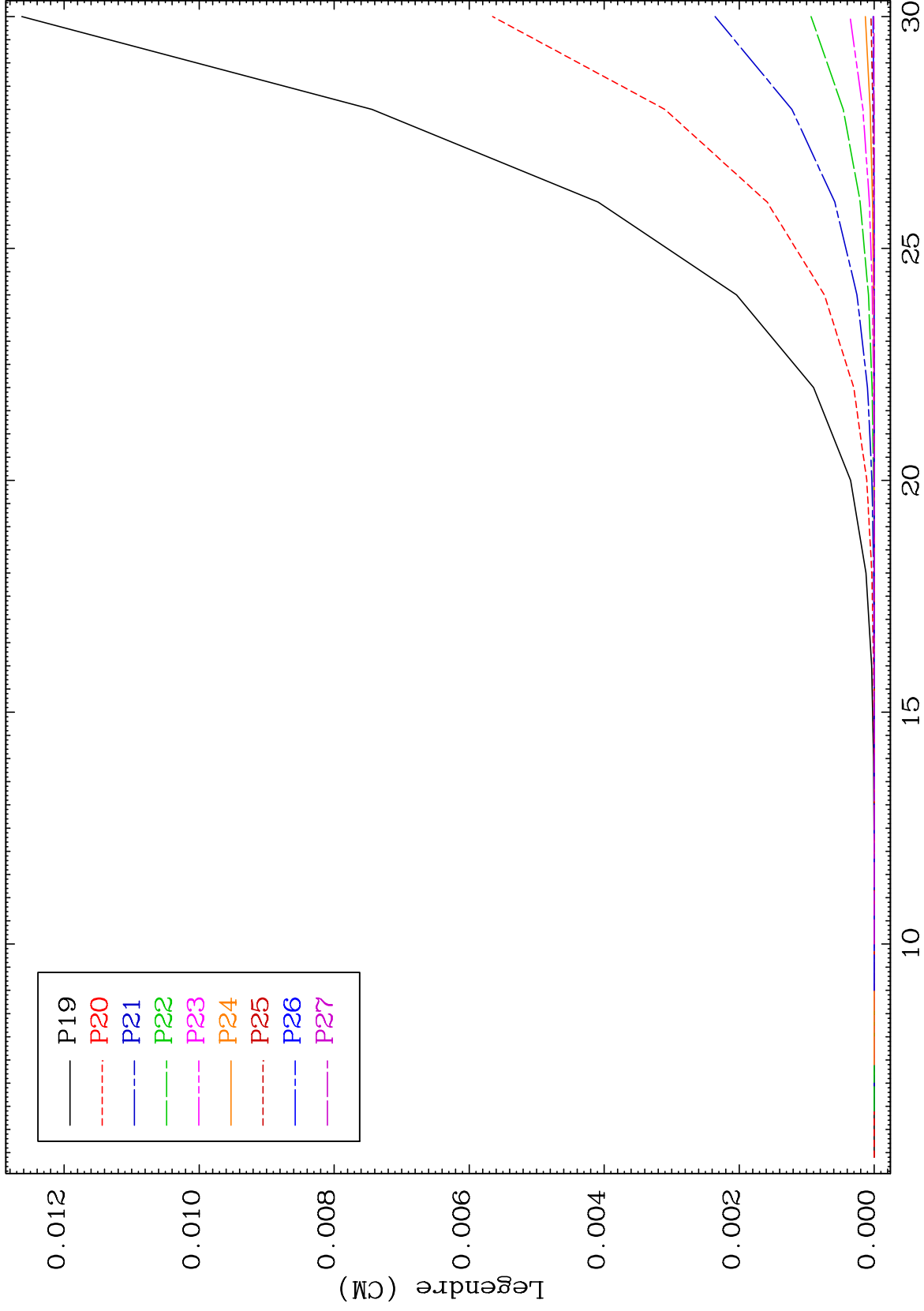




MAT 6301

### Elastic Legendre Coefficients

63-Eu-143



17

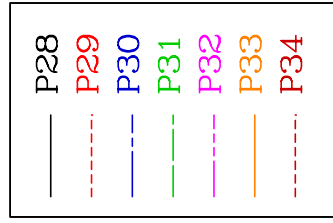
Incident Energy (MeV)

63-Eu-143

MAT 6301

Elastic  
Legendre Coefficients

63-Eu-143



$\times 10^{-6}$

Legendre (CM)

1.0

0.5

0.0

15

20

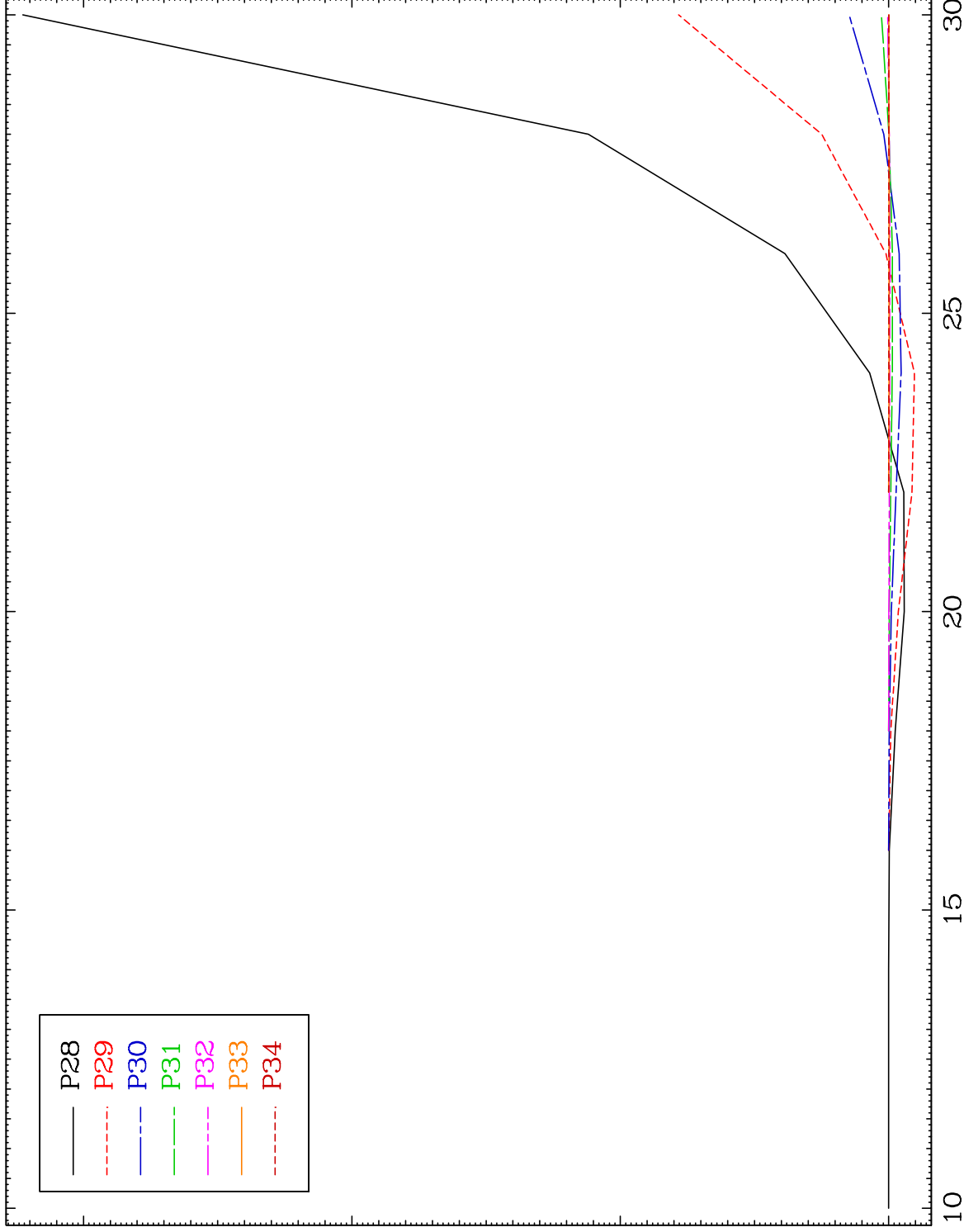
25

30

18

Incident Energy (MeV)

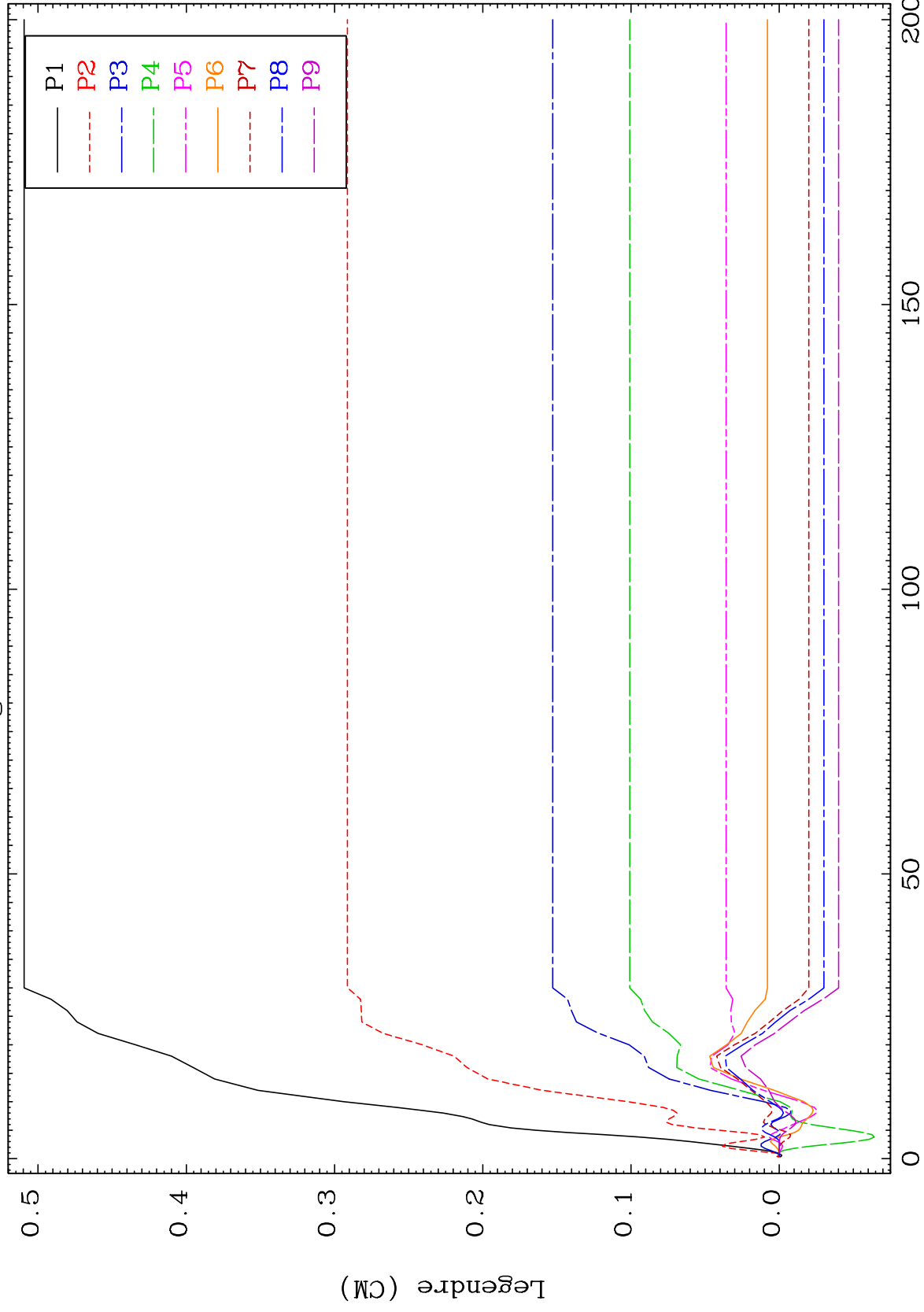
63-Eu-143



MAT 6301

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

63-Eu-143



19

Incident Energy (MeV)

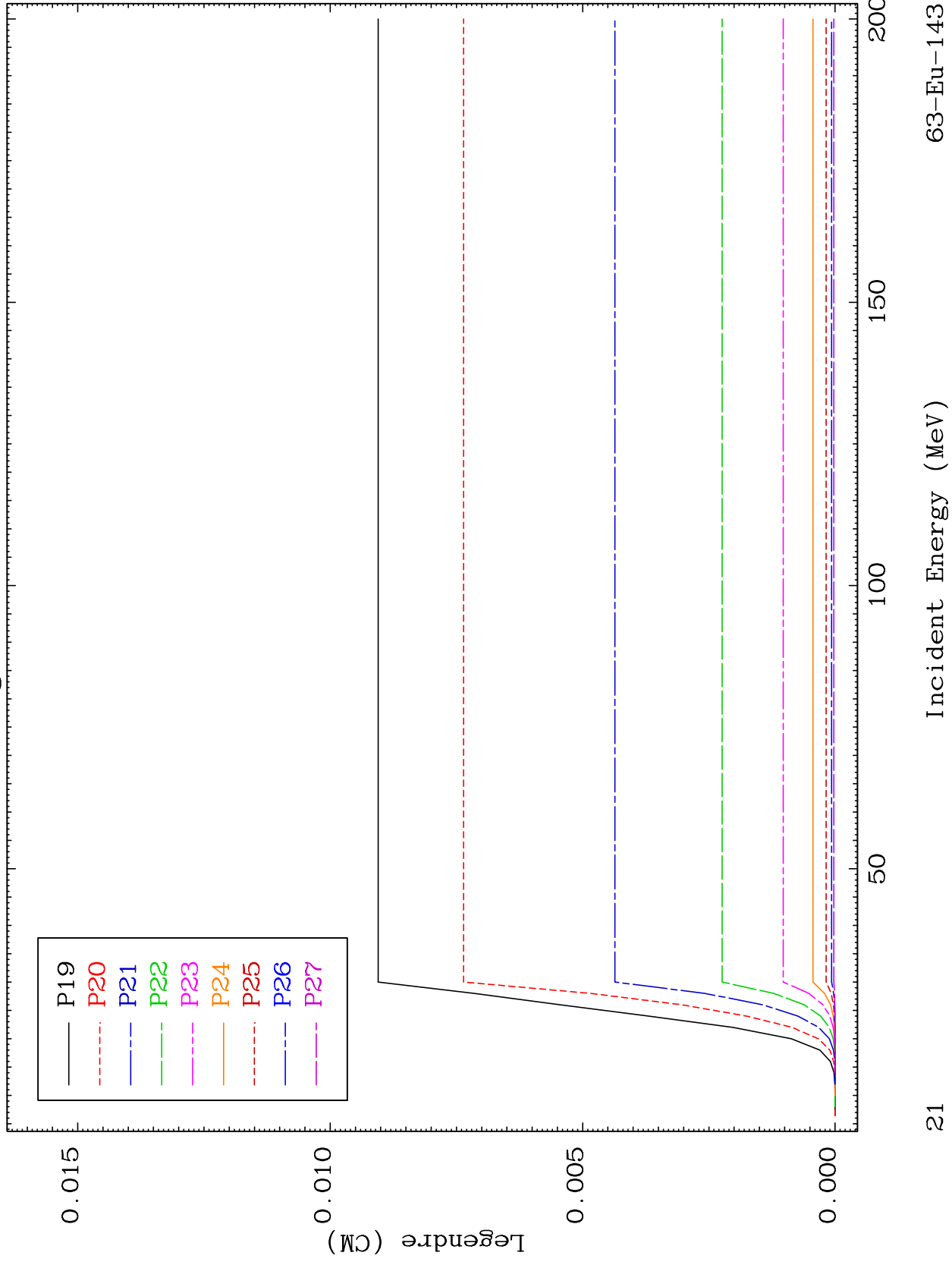
63-Eu-143



MAT 6301

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

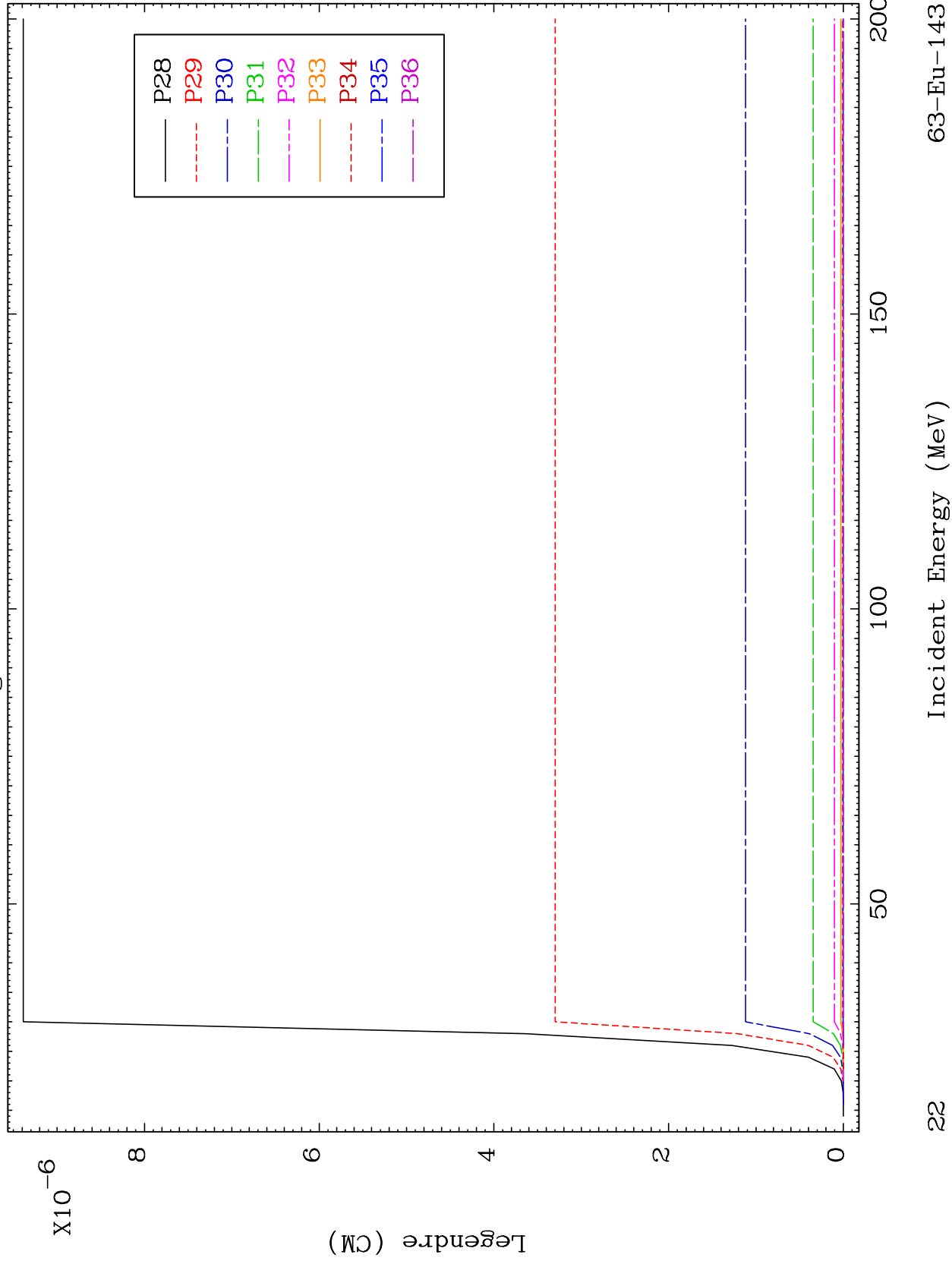
63-Eu-143



MAT 6301

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

63-Eu-143



22

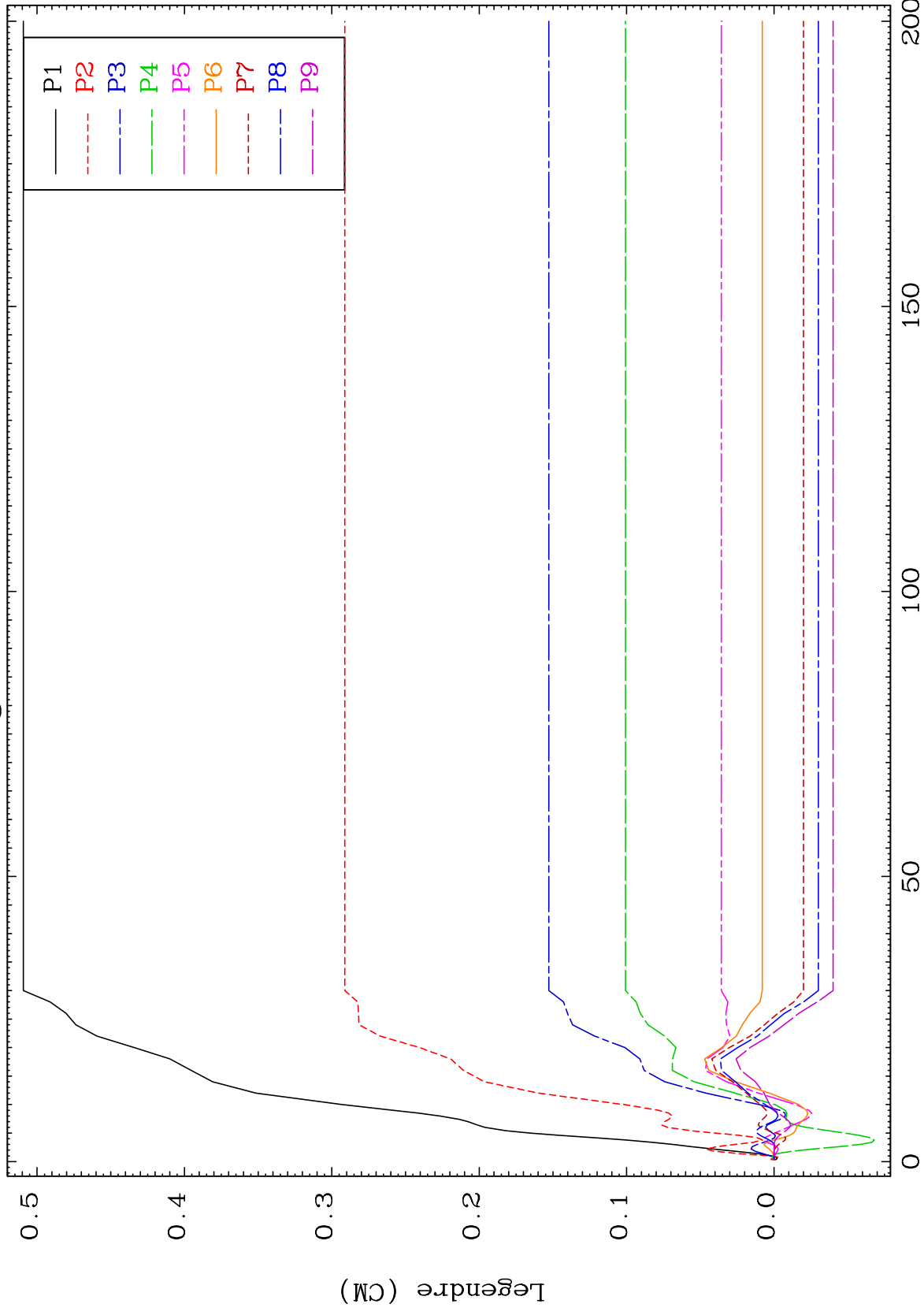
Incident Energy (MeV)

63-Eu-143

MAT 6301

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

63-Eu-143



23

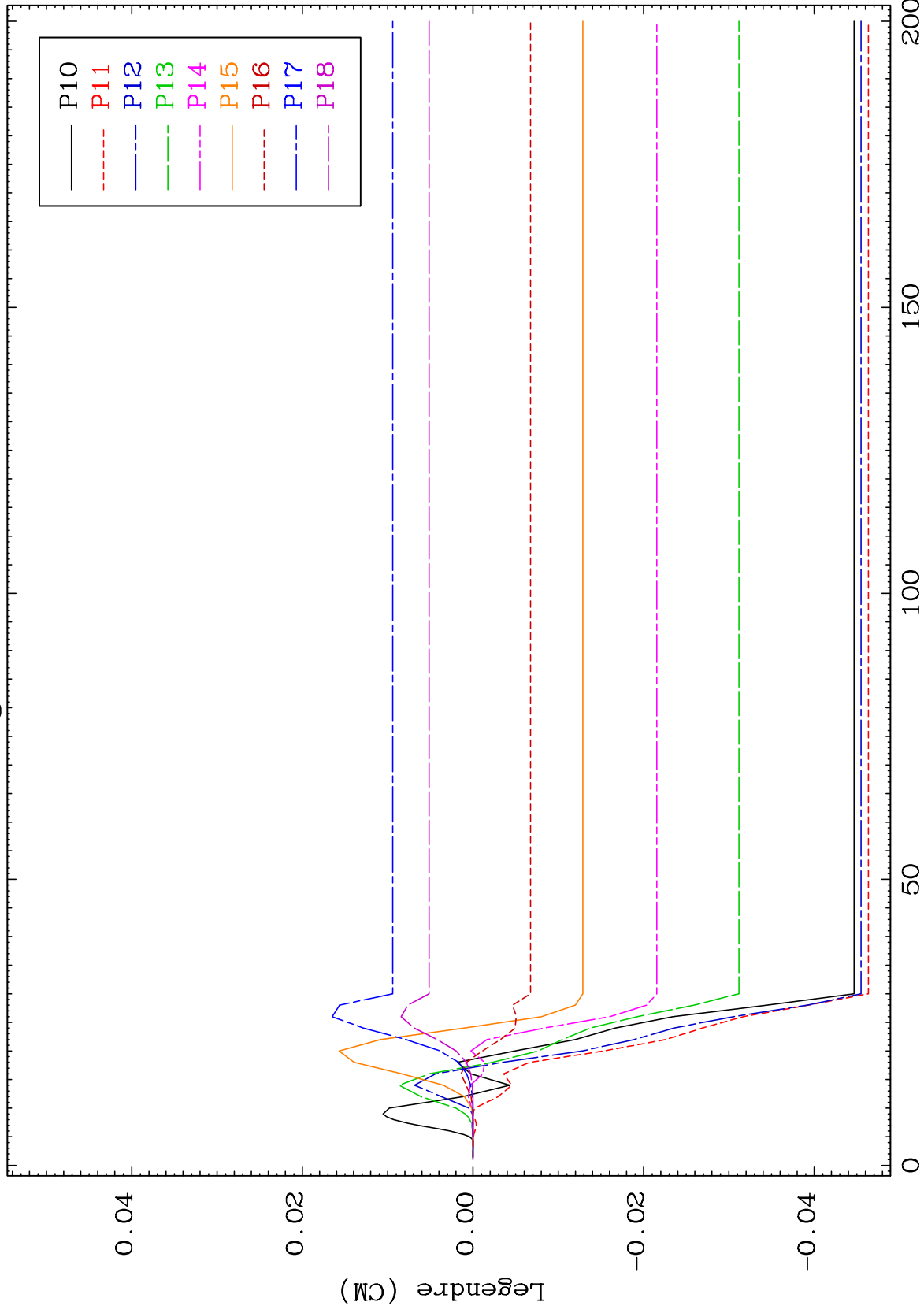
Incident Energy (MeV)

63-Eu-143

MAT 6301

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

63-Eu-143



24

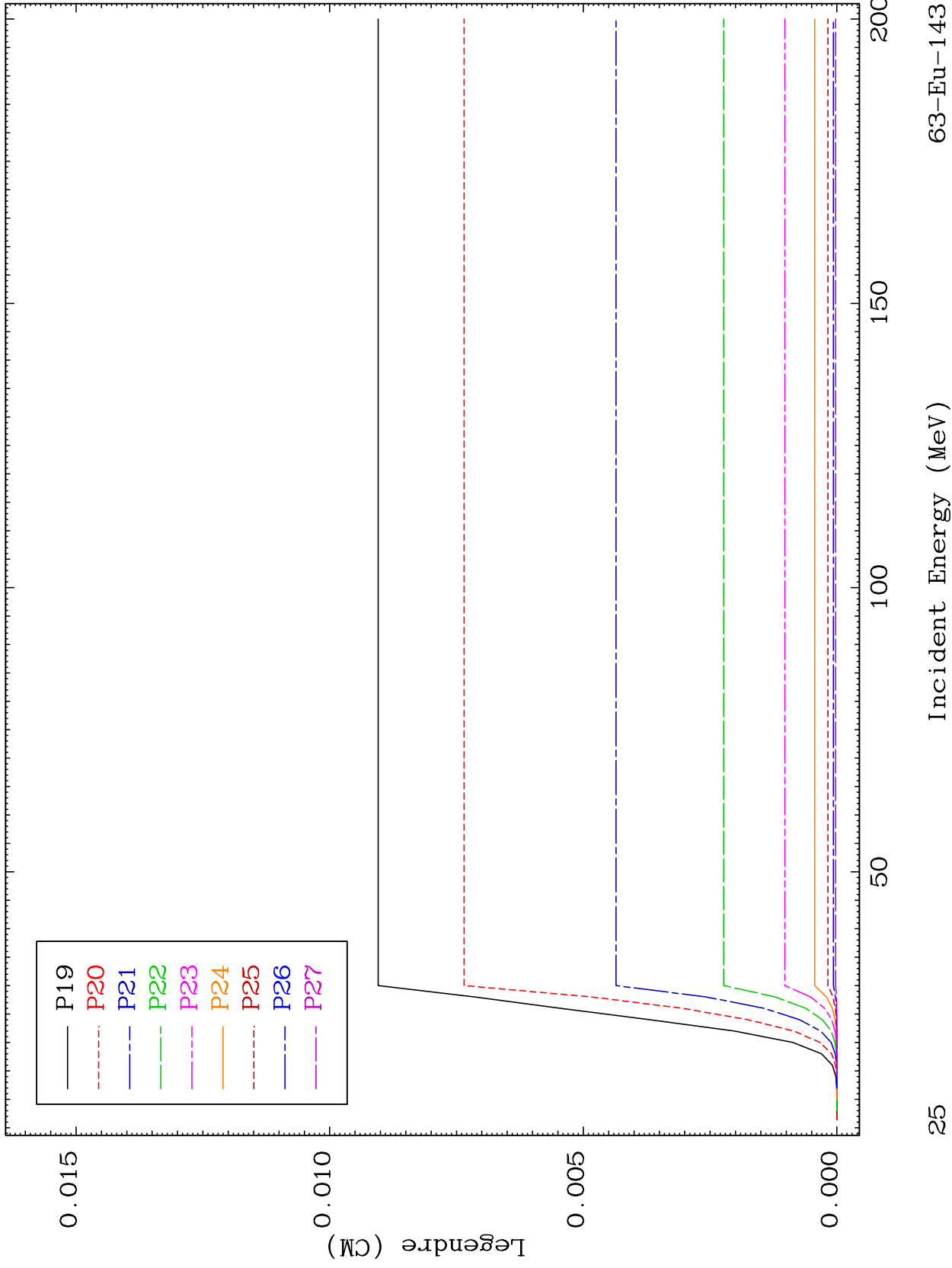
Incident Energy (MeV)

63-Eu-143

MAT 6301

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

63-Eu-143



25

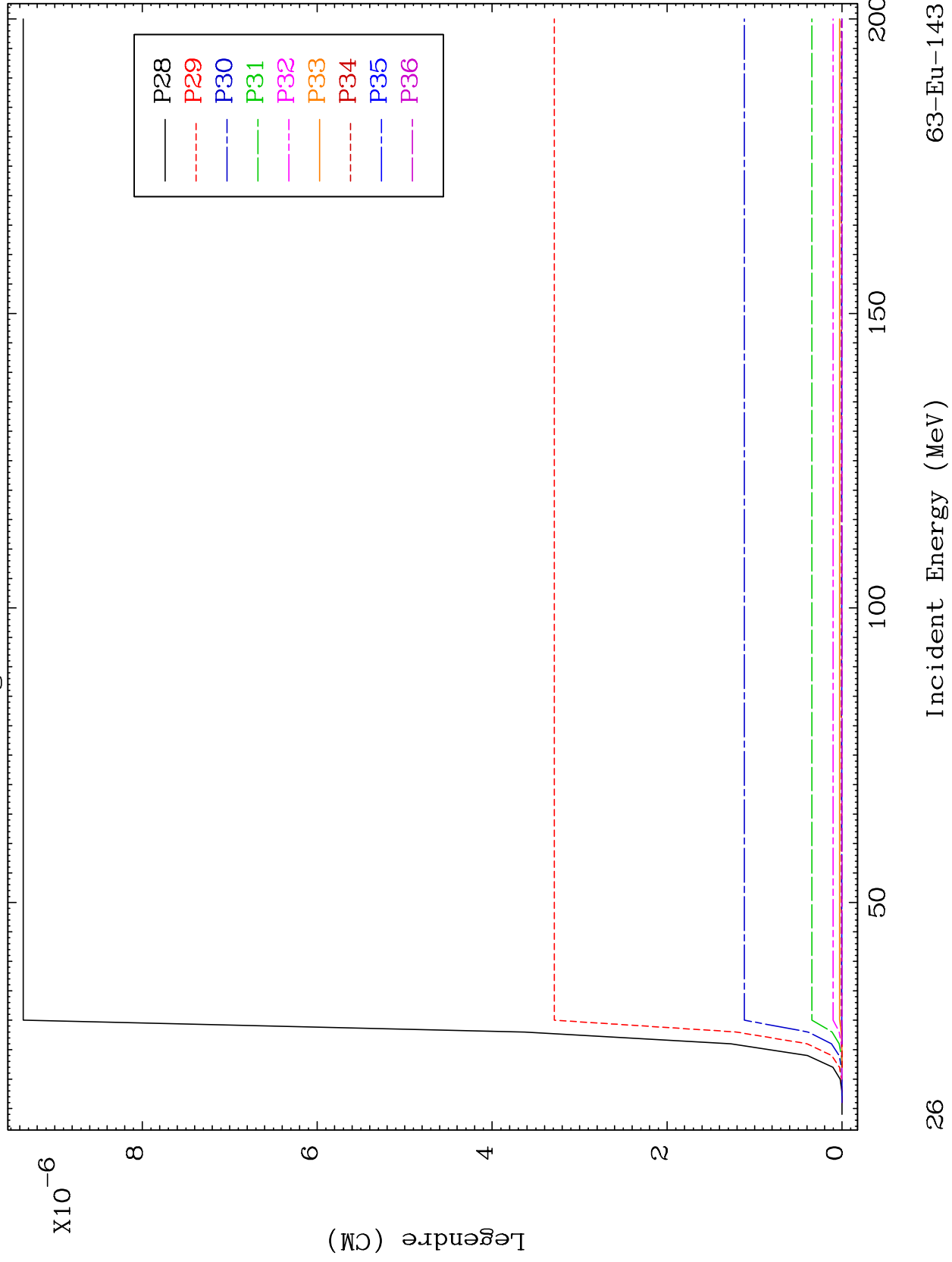
Incident Energy (MeV)

63-Eu-143

MAT 6301

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

63-Eu-143



26

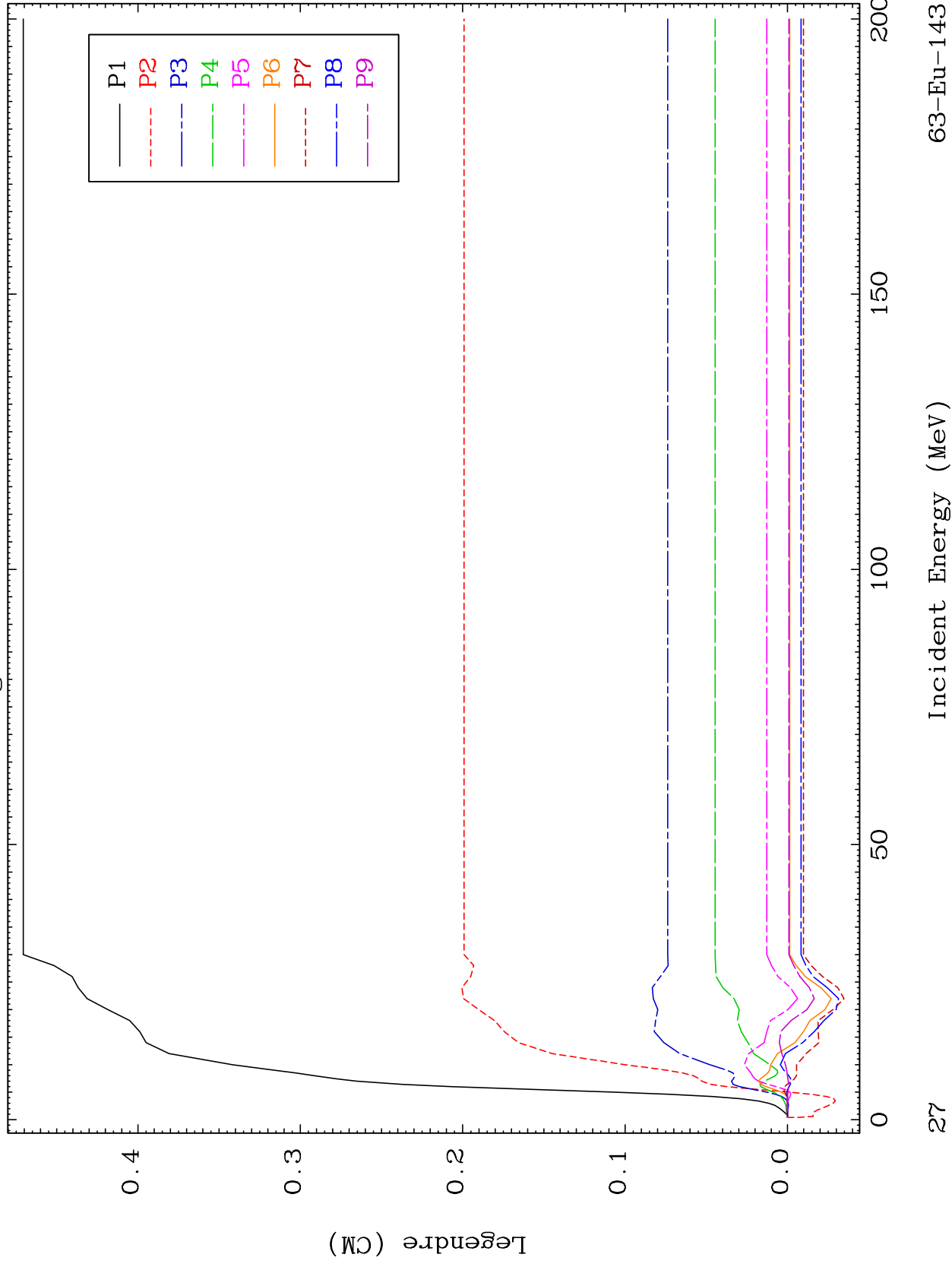
Incident Energy (MeV)

63-Eu-143

MAT 6301

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

63-Eu-143



63-Eu-143

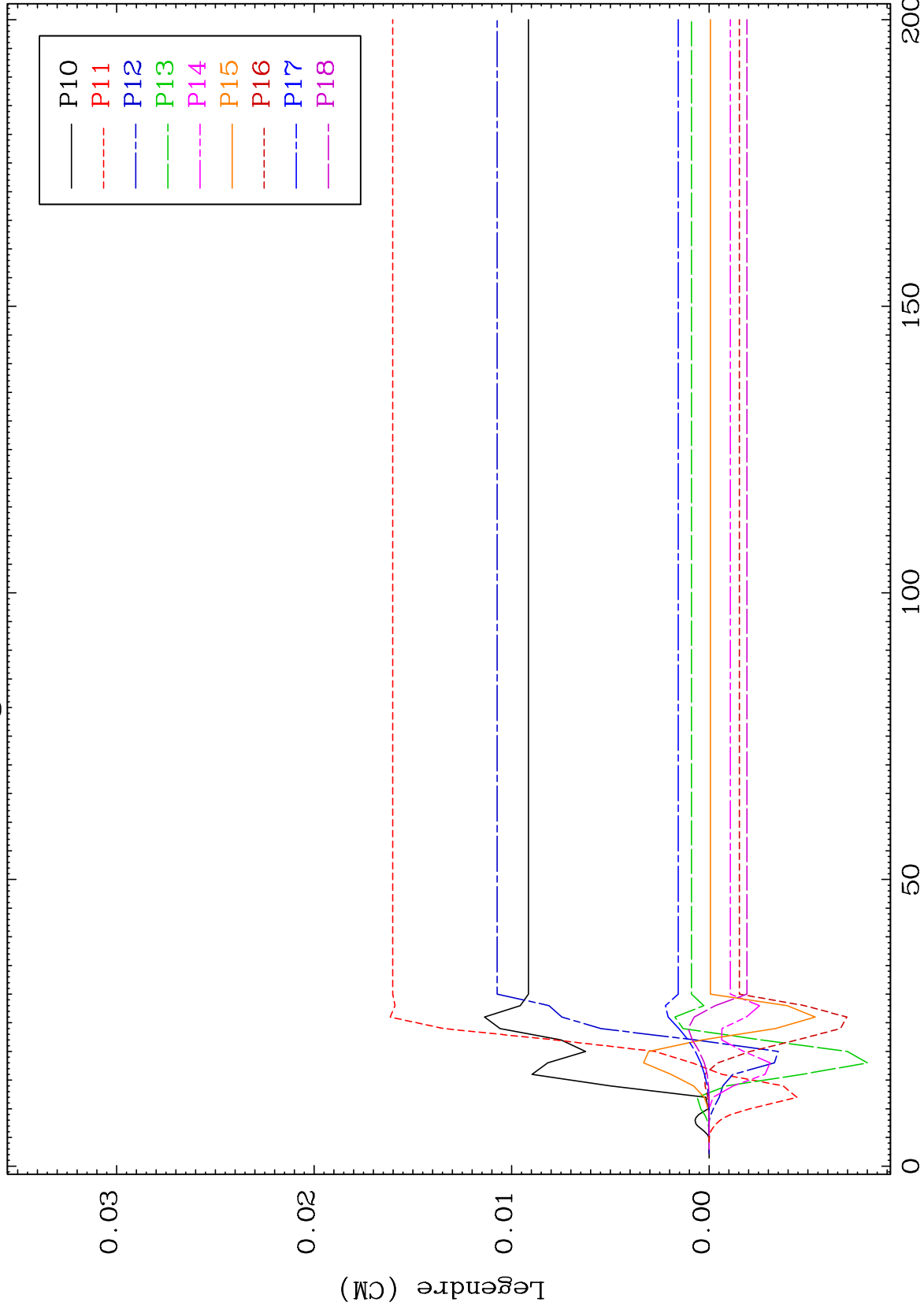
Incident Energy (MeV)

27

MAT 6301

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

63-Eu-143



28

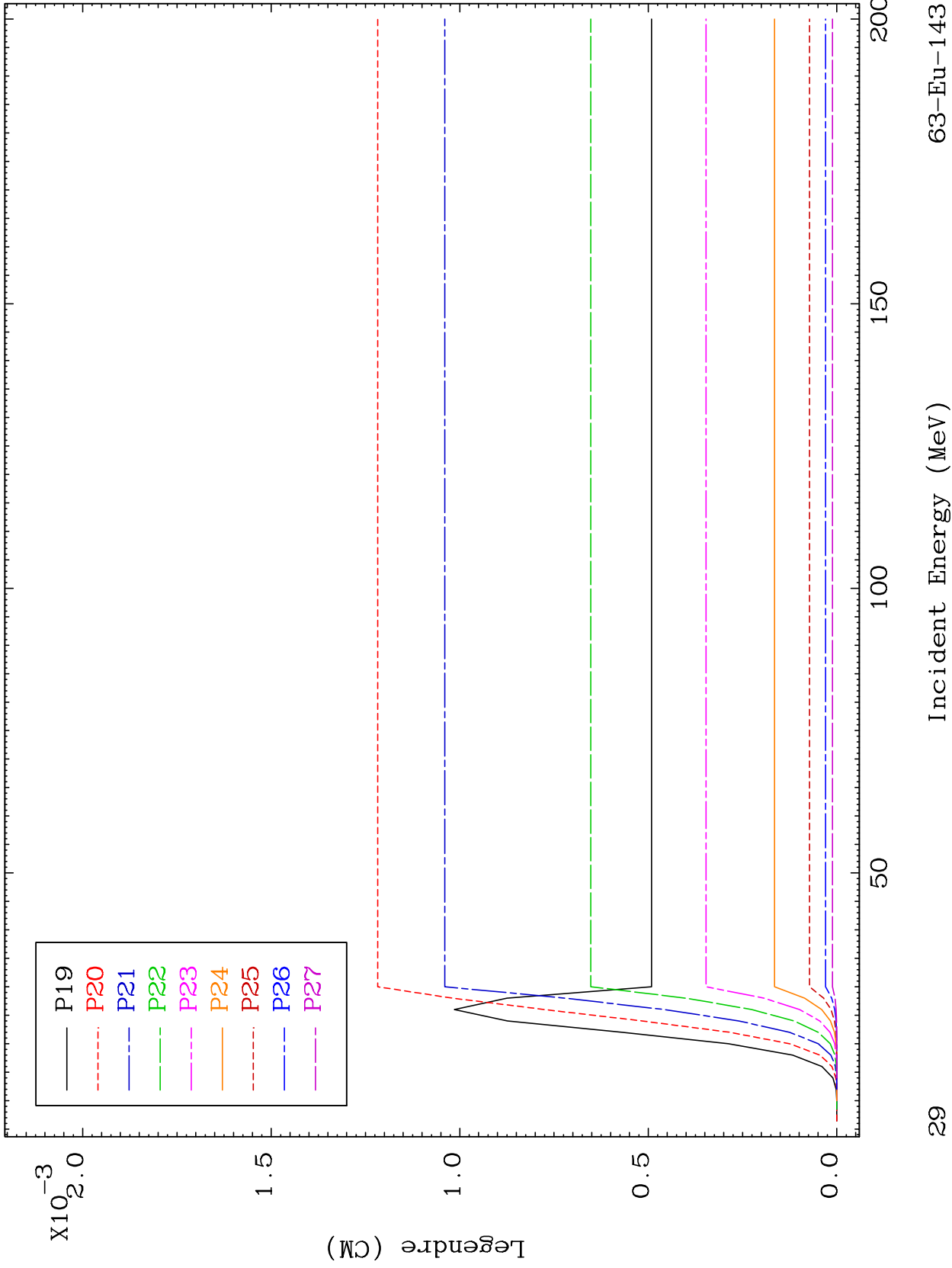
Incident Energy (MeV)

63-Eu-143

MAT 6301

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

63-Eu-143



29

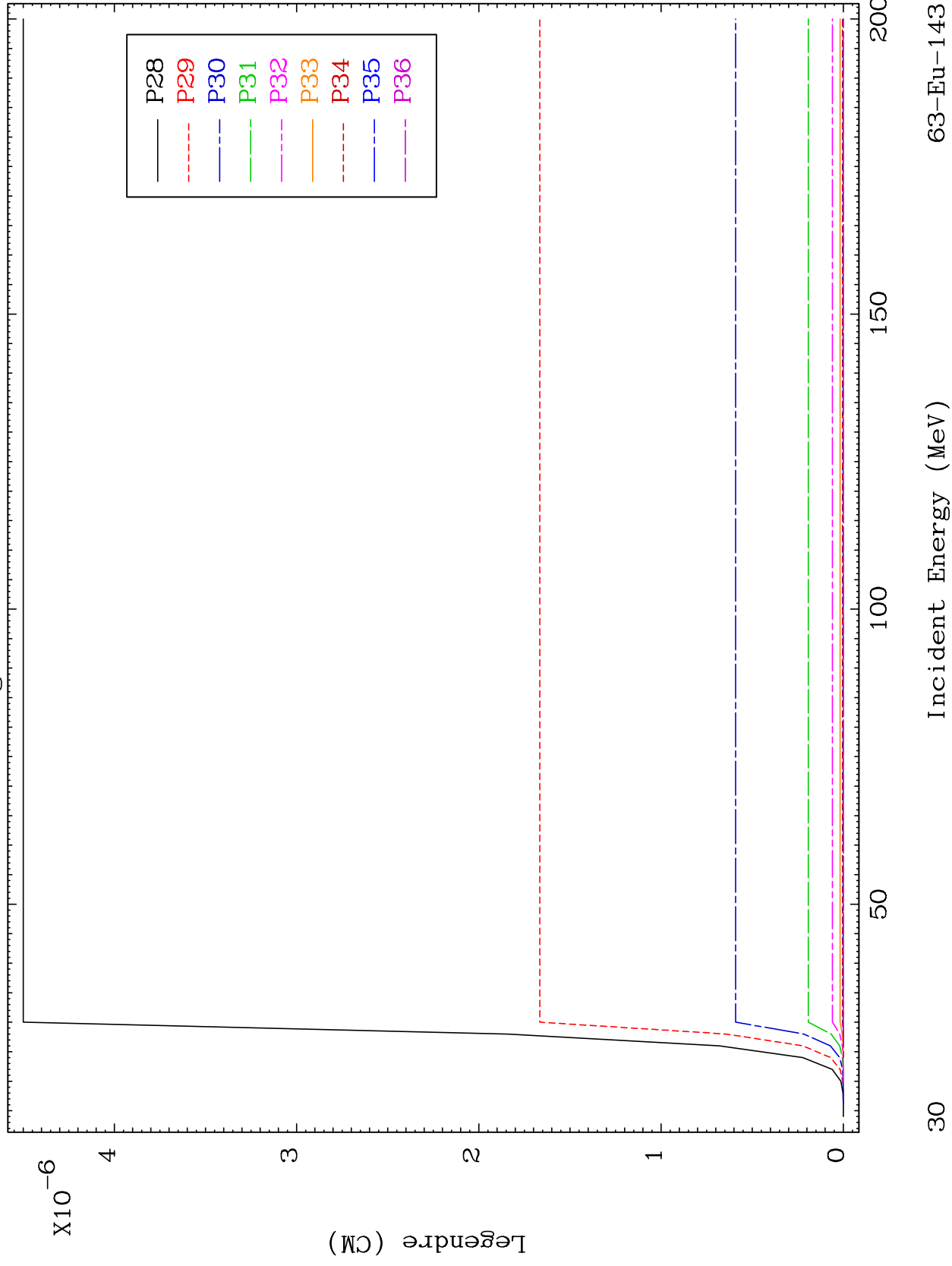
Incident Energy (MeV)

63-Eu-143

MAT 6301

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

63-Eu-143



63-Eu-143

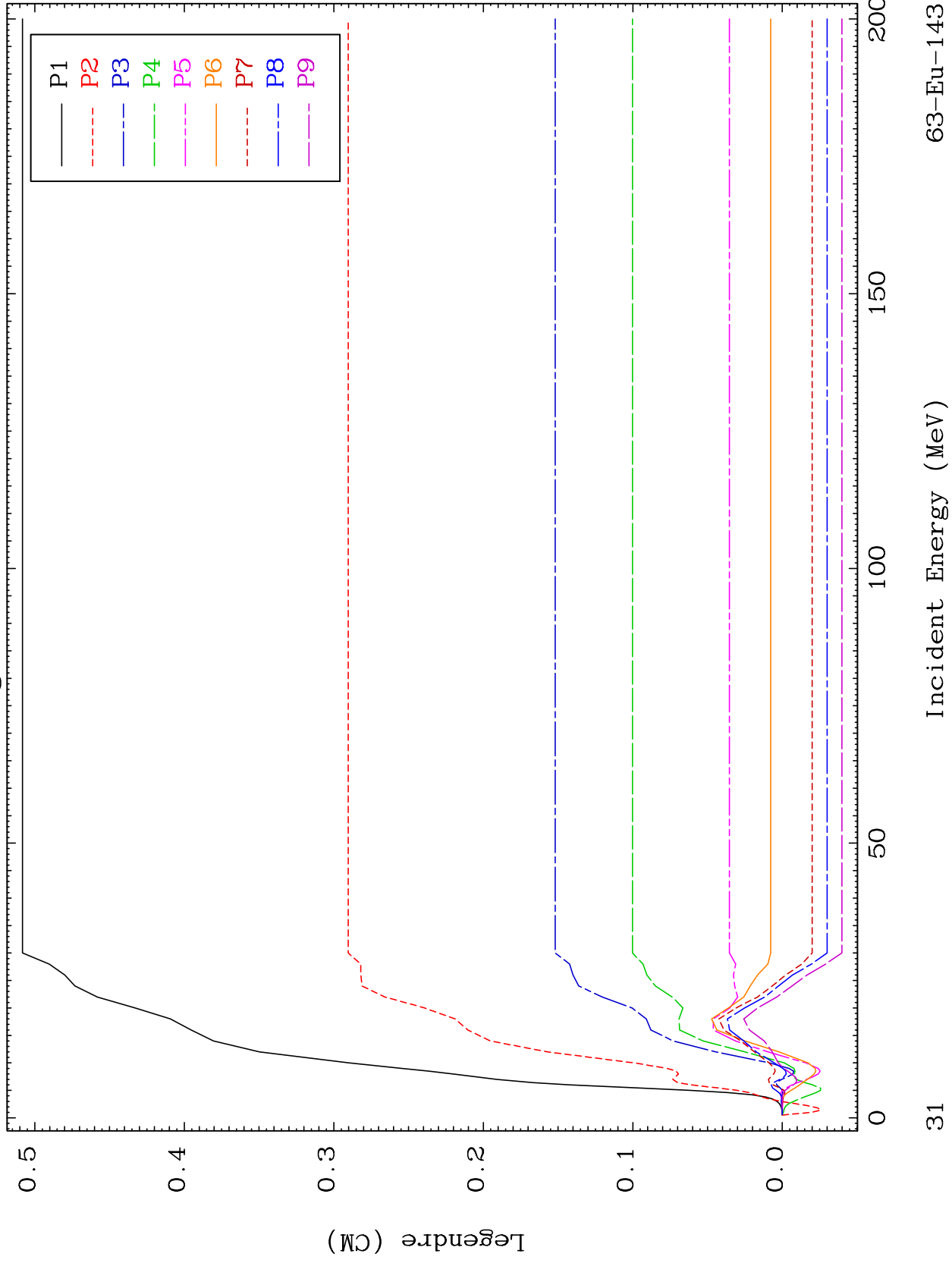
Incident Energy (MeV)

30

MAT 6301

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

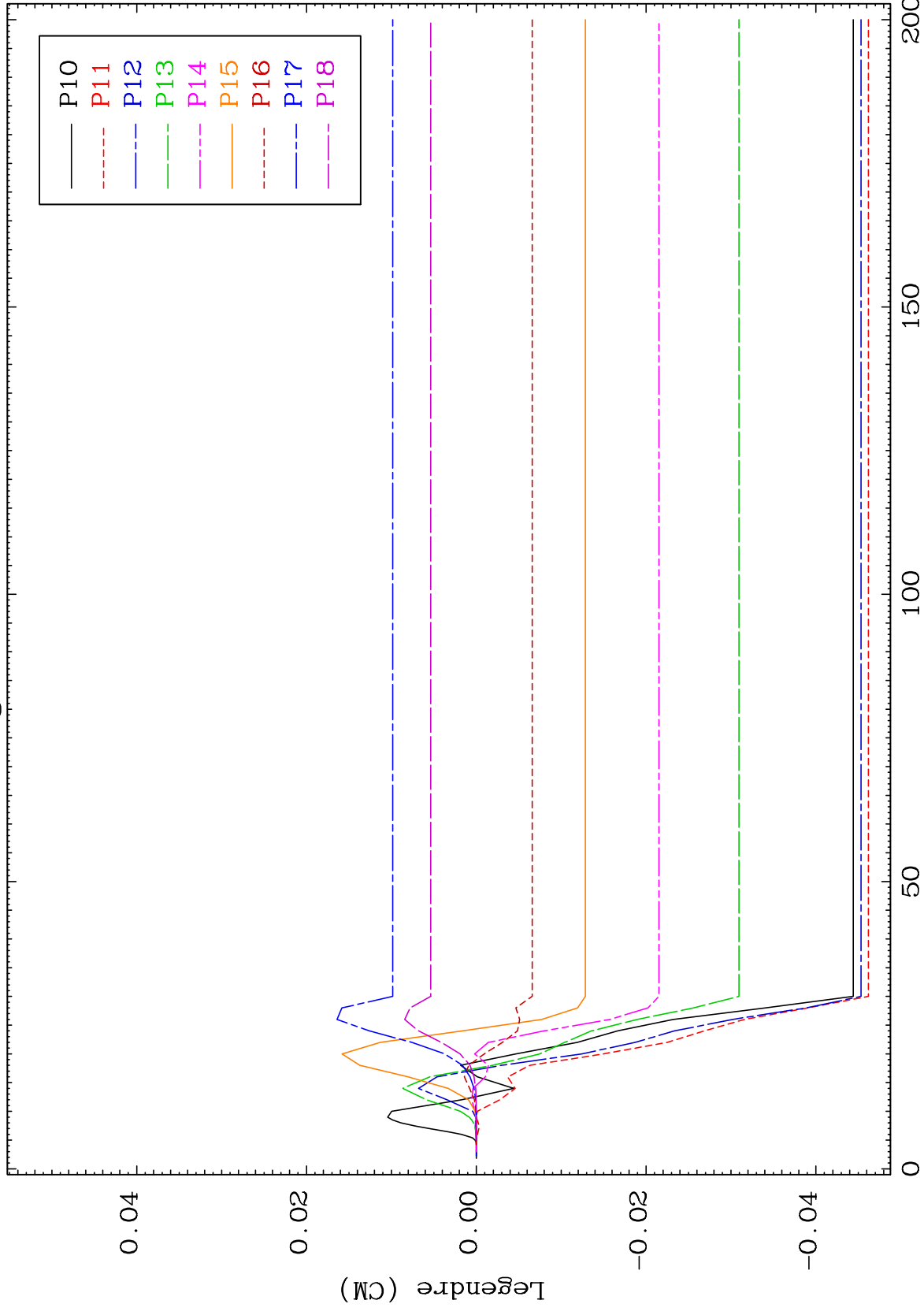
63-Eu-143



MAT 6301

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

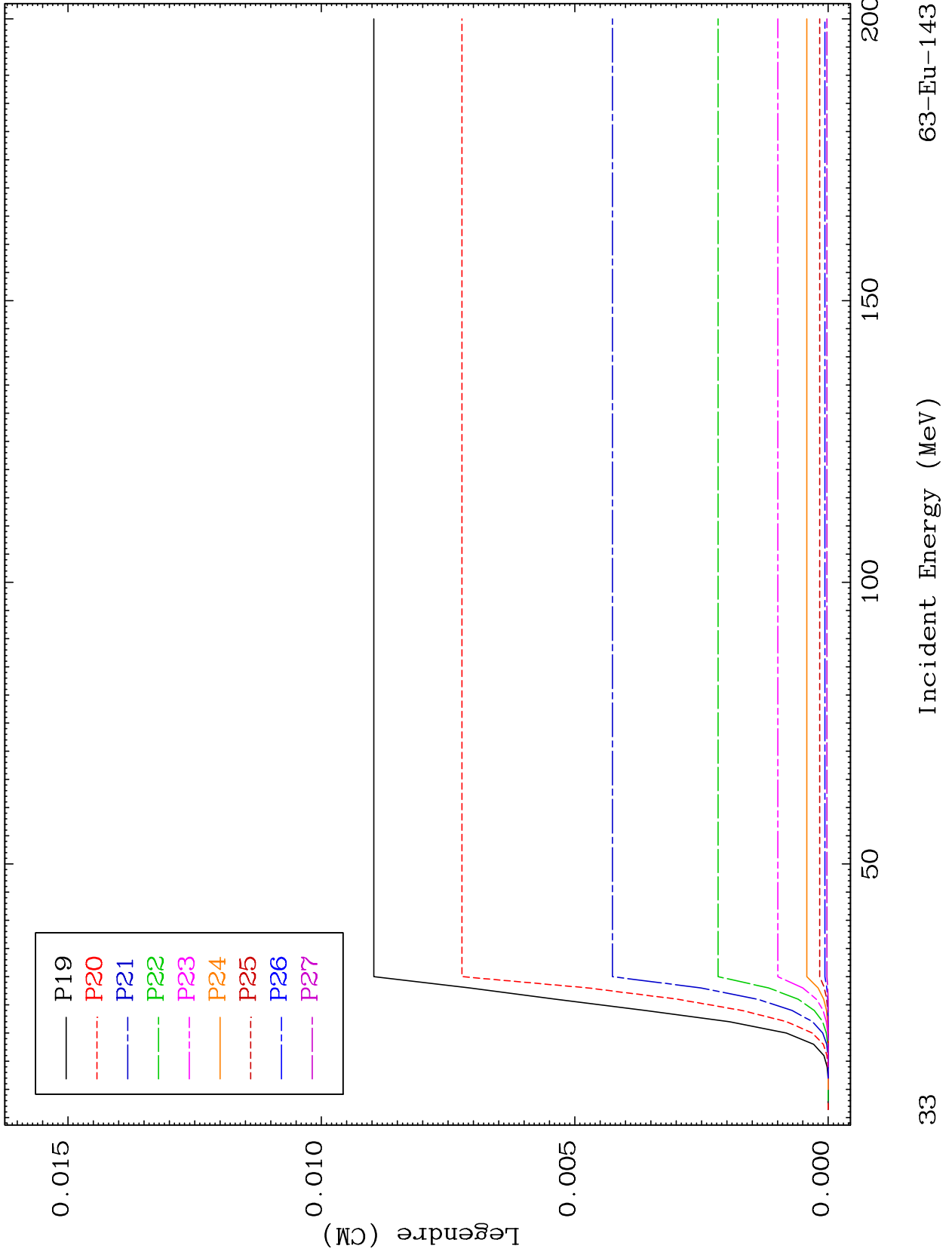
63-Eu-143



32

Incident Energy (MeV)

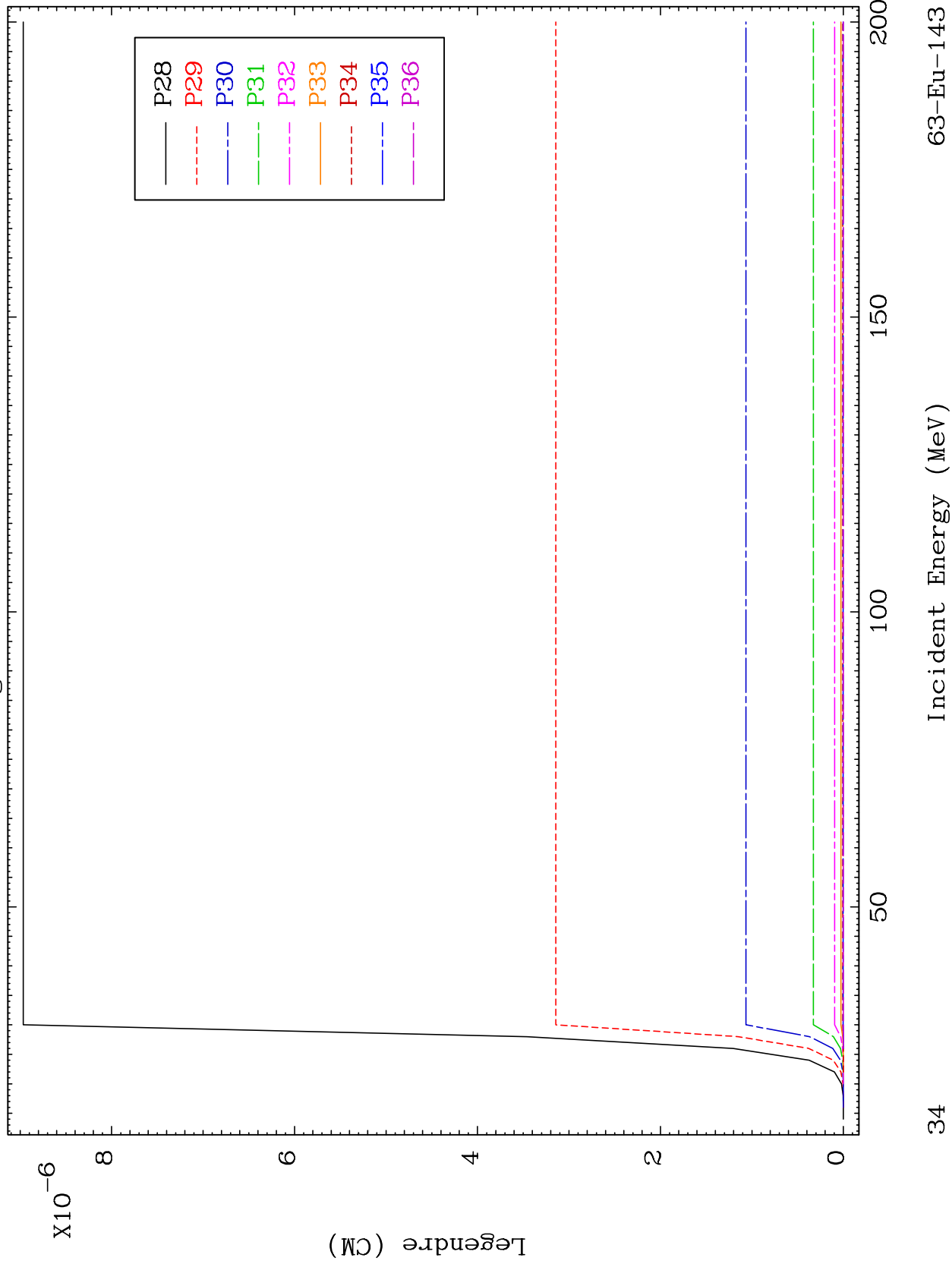
63-Eu-143



MAT 6301

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

63-Eu-143



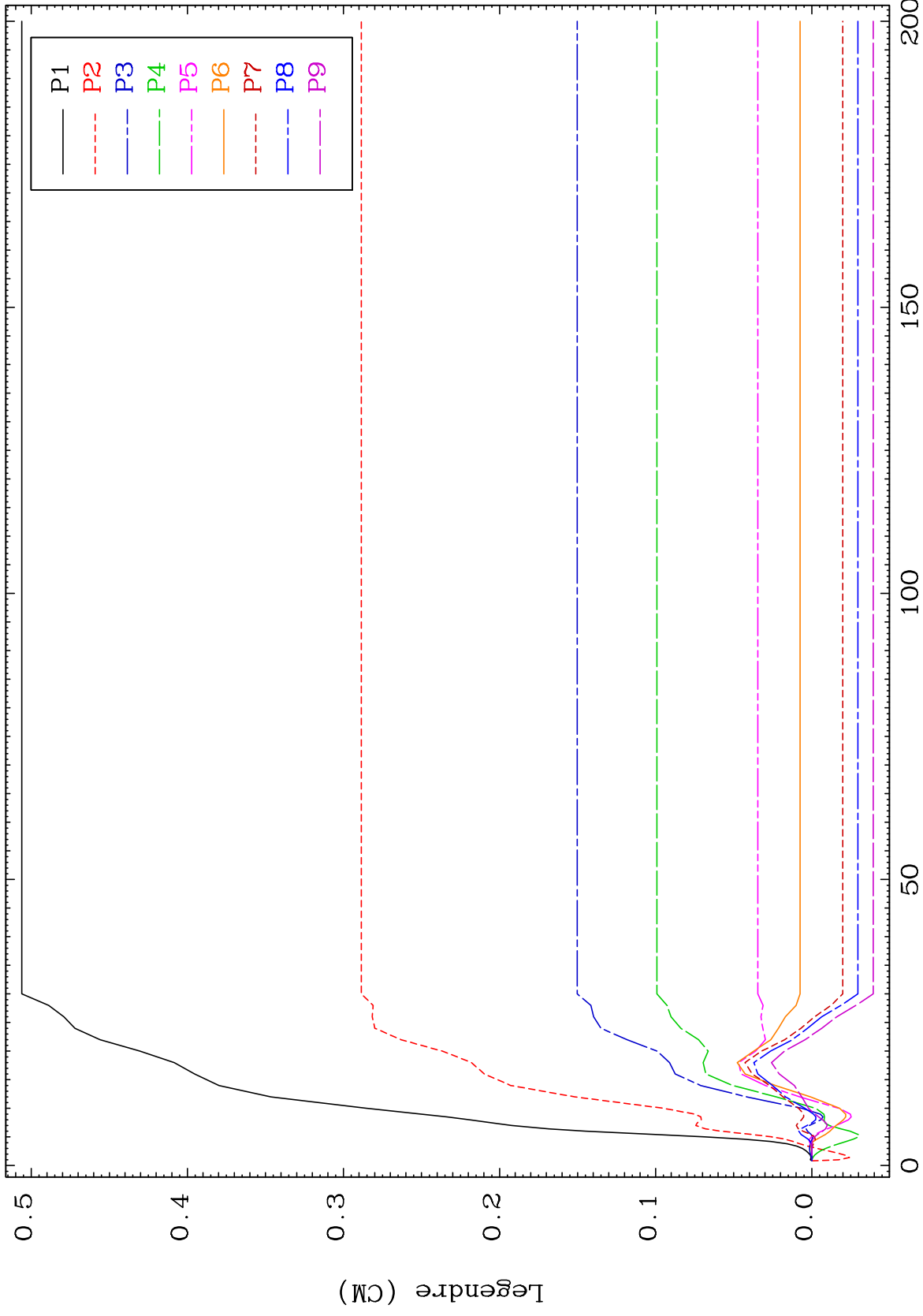
34

63-Eu-143

MAT 6301

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

63-Eu-143



35

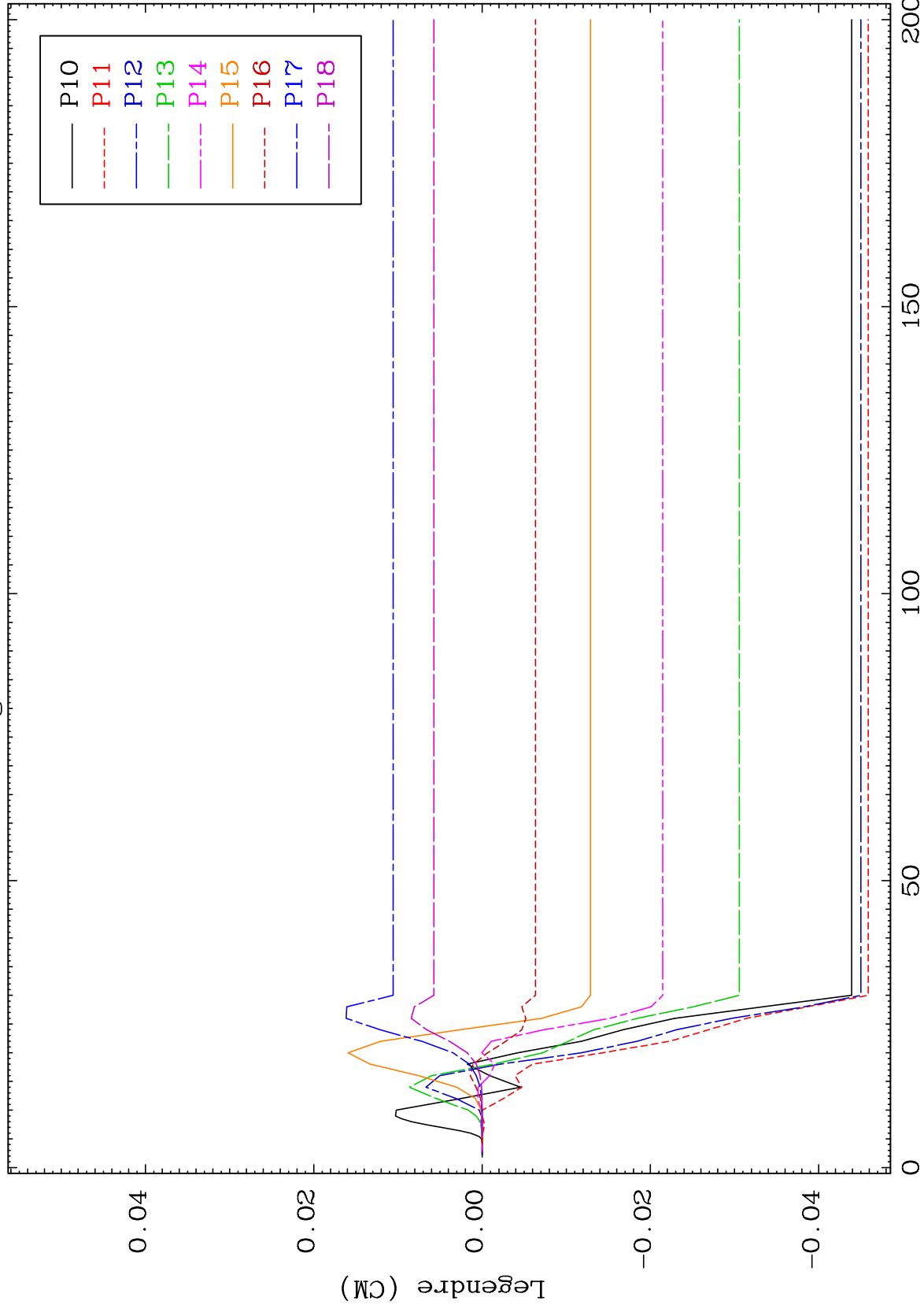
Incident Energy (MeV)

63-Eu-143

MAT 6301

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

63-Eu-143



36

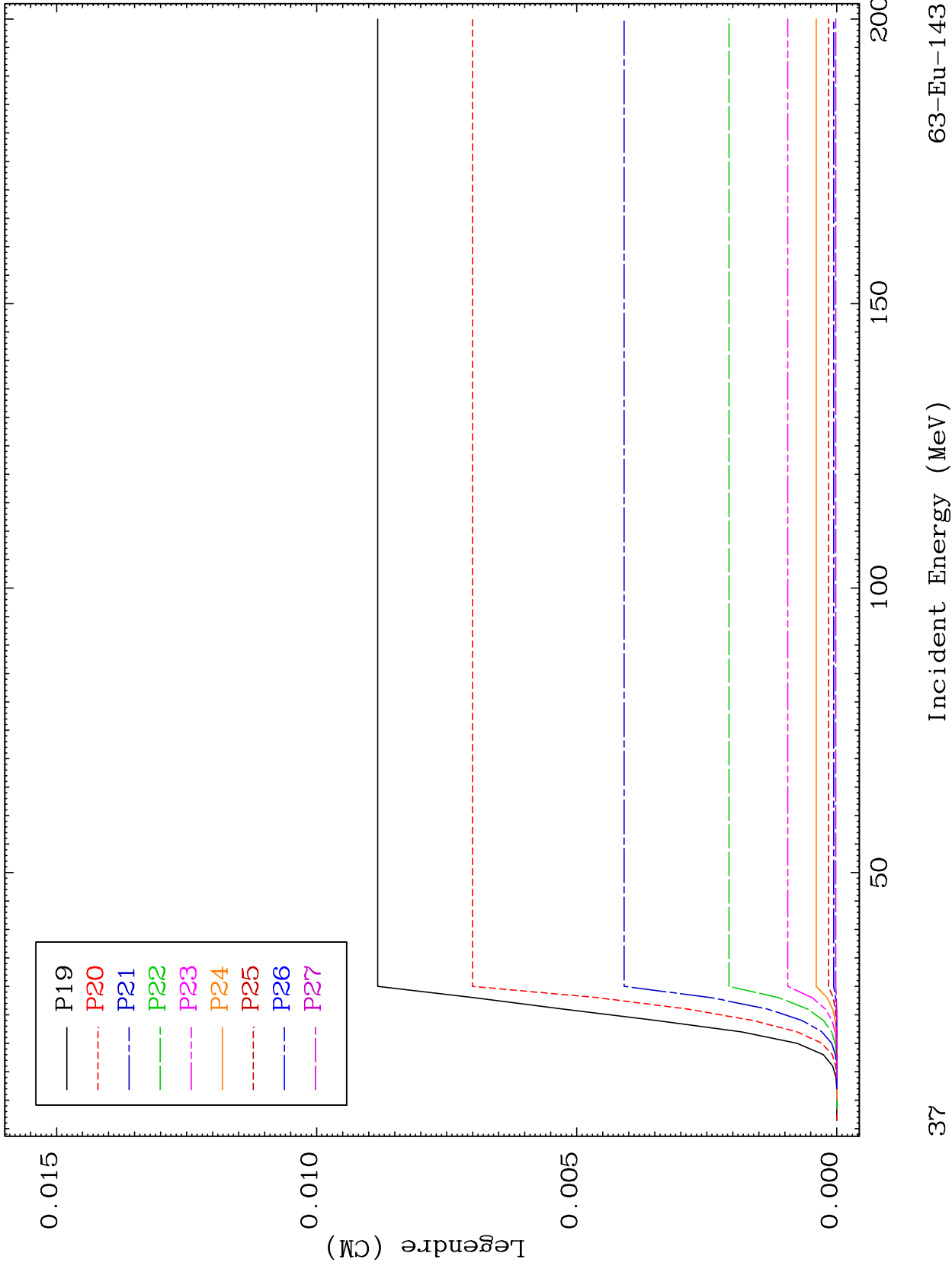
Incident Energy (MeV)

63-Eu-143

MAT 6301

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

63-Eu-143



37

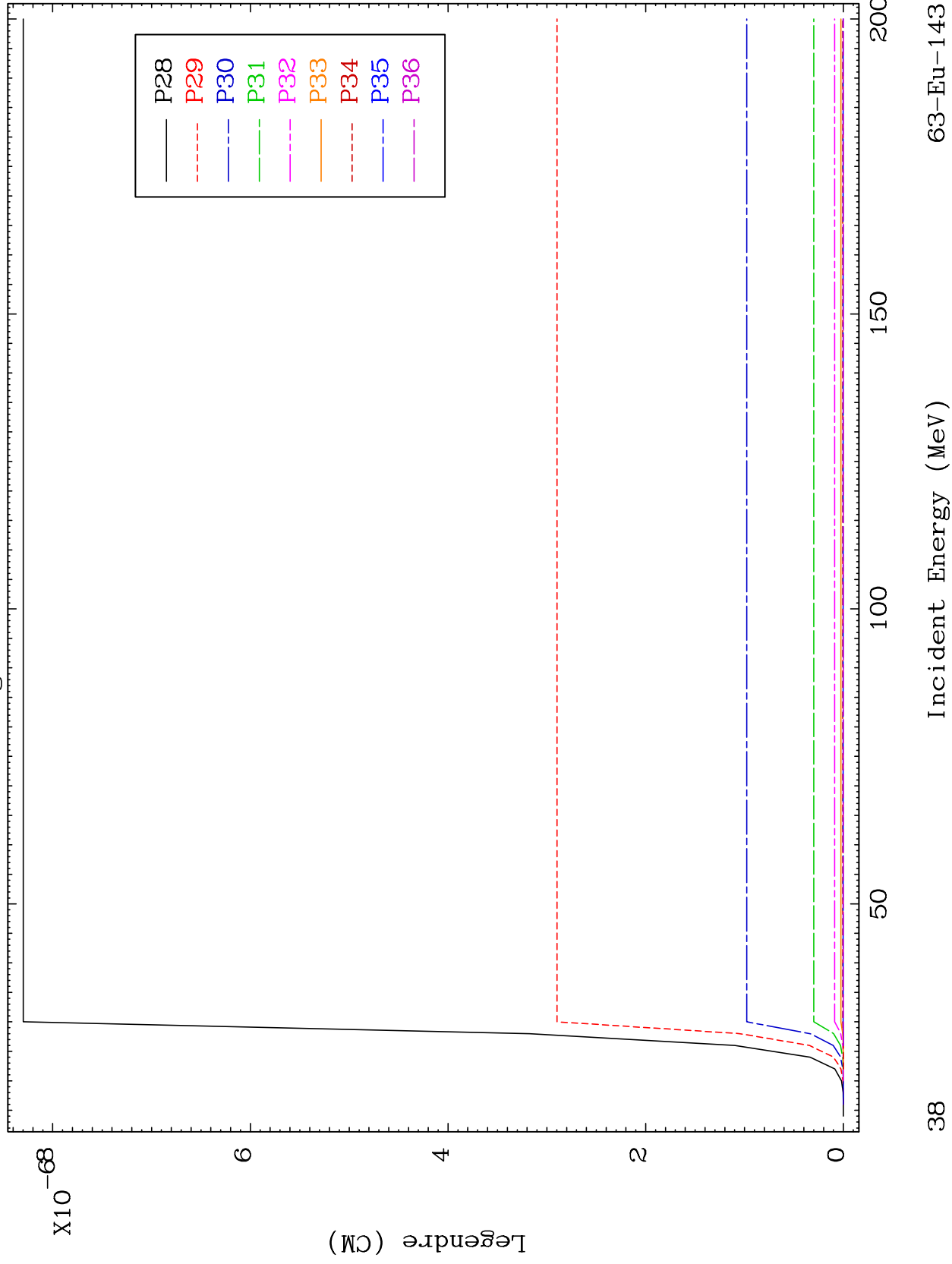
Incident Energy (MeV)

63-Eu-143

MAT 6301

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

63-Eu-143



38

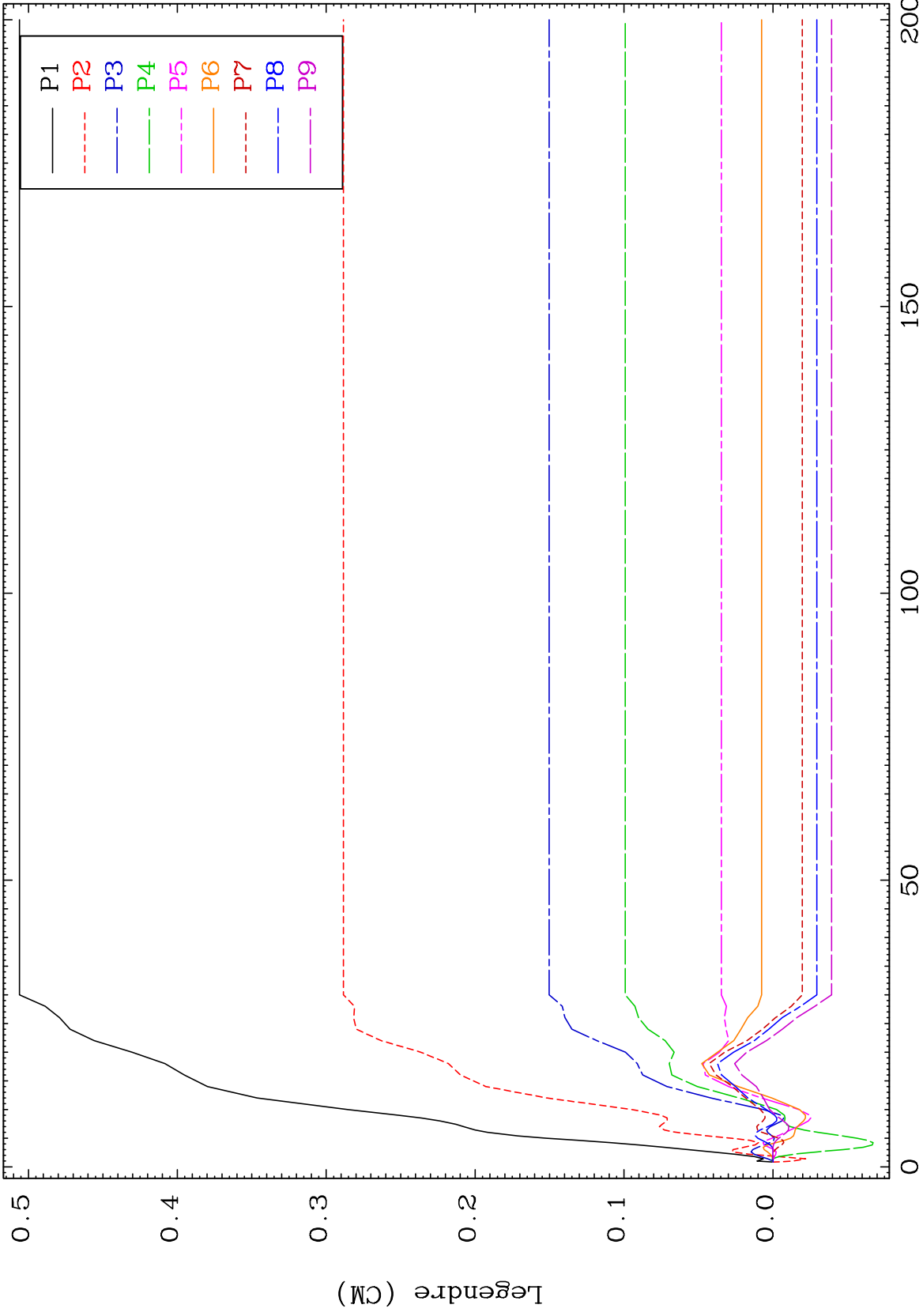
Incident Energy (MeV)

63-Eu-143

MAT 6301

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

63-Eu-143



39

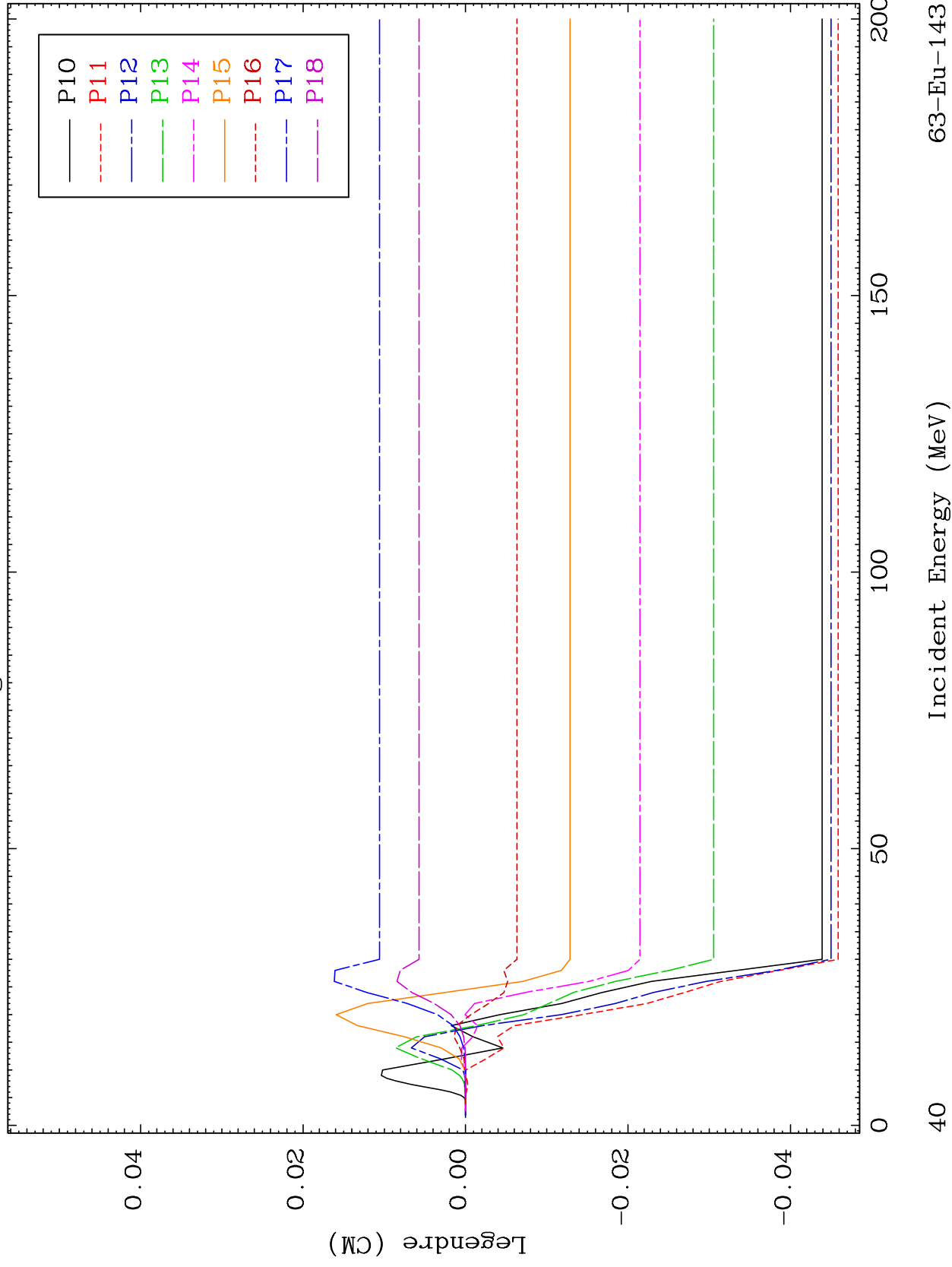
Incident Energy (MeV)

63-Eu-143

MAT 6301

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

63-Eu-143



63-Eu-143

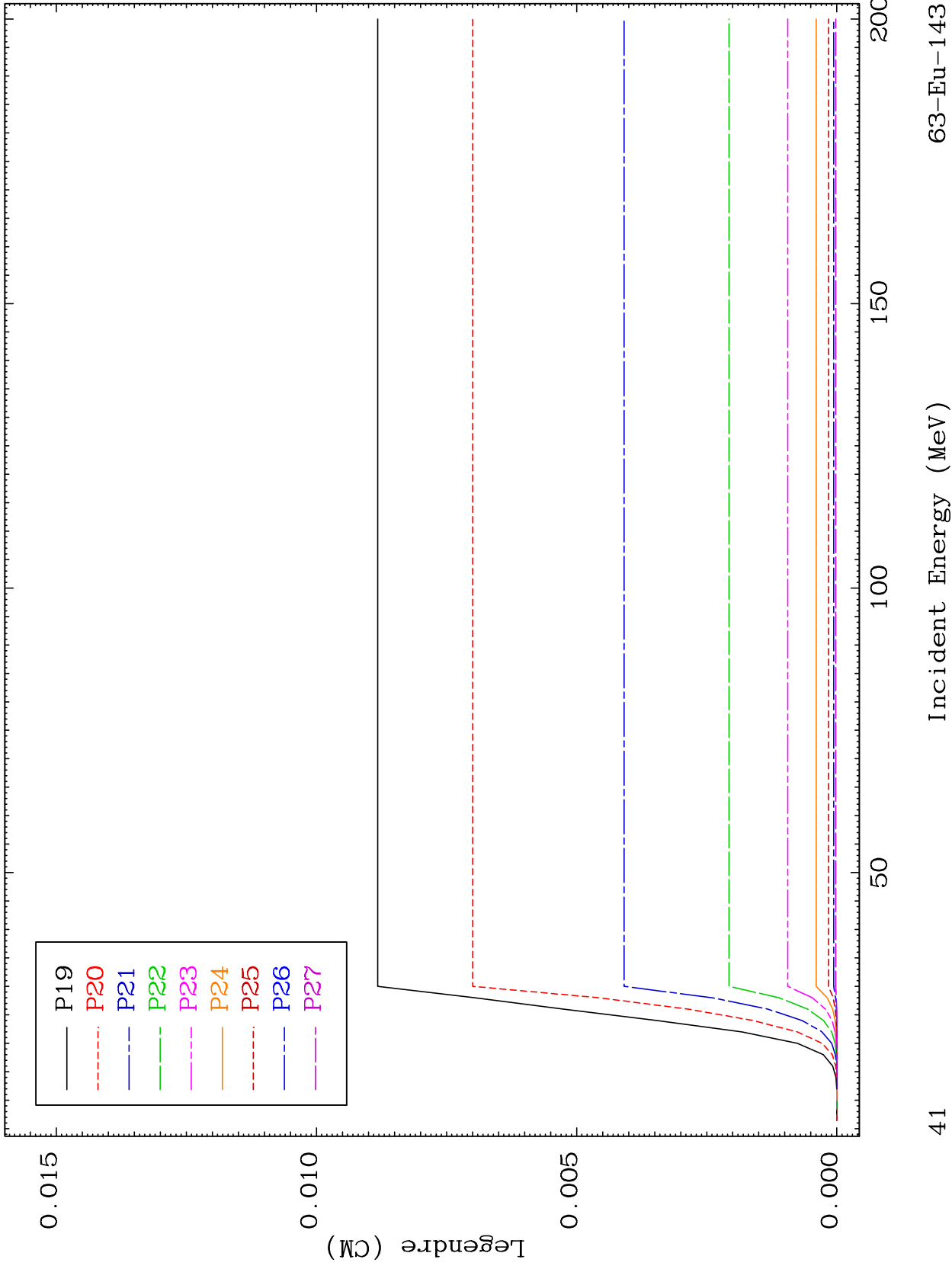
Incident Energy (MeV)

40

MAT 6301

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

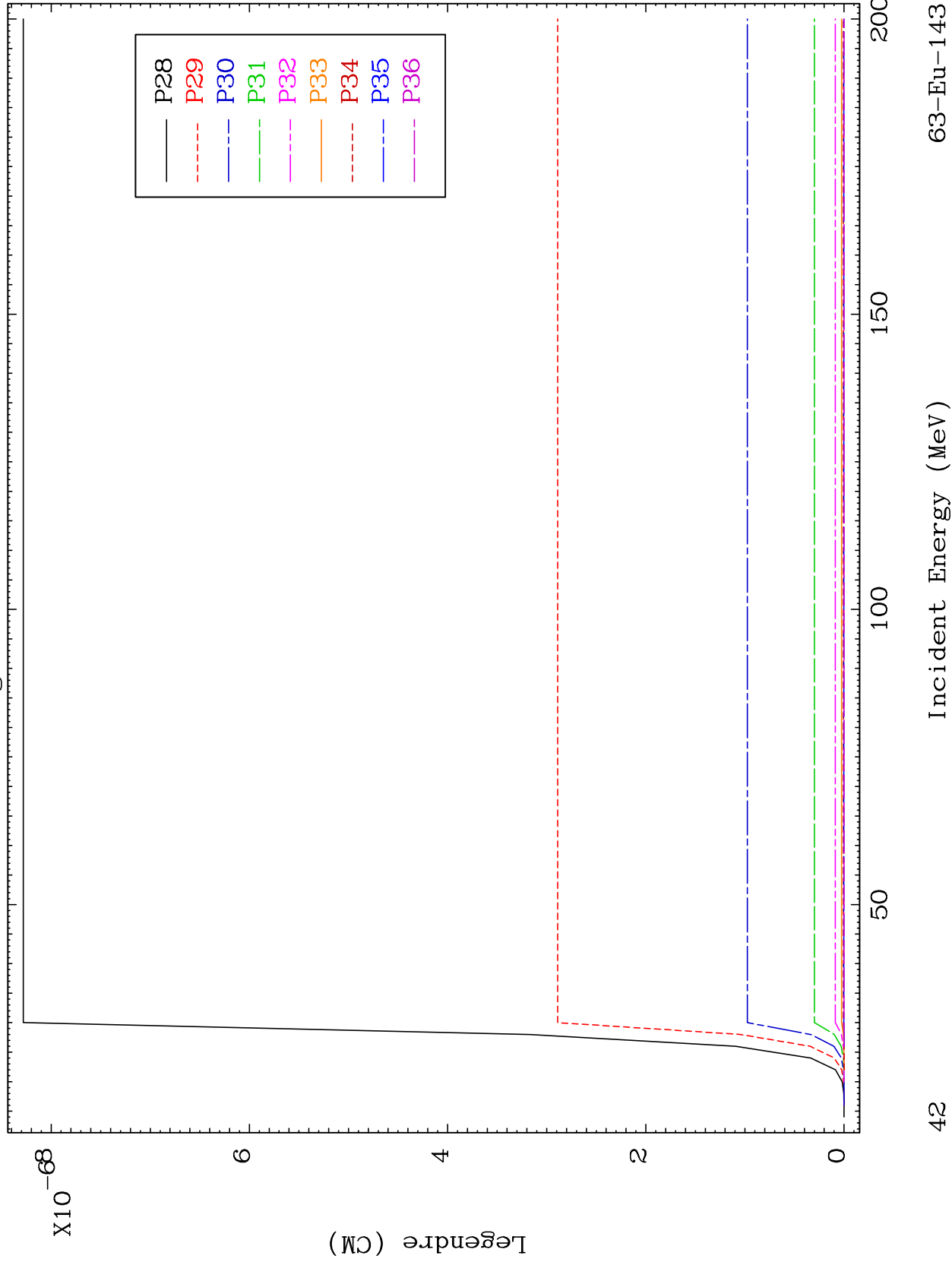
63-Eu-143



MAT 6301

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

63-Eu-143



42

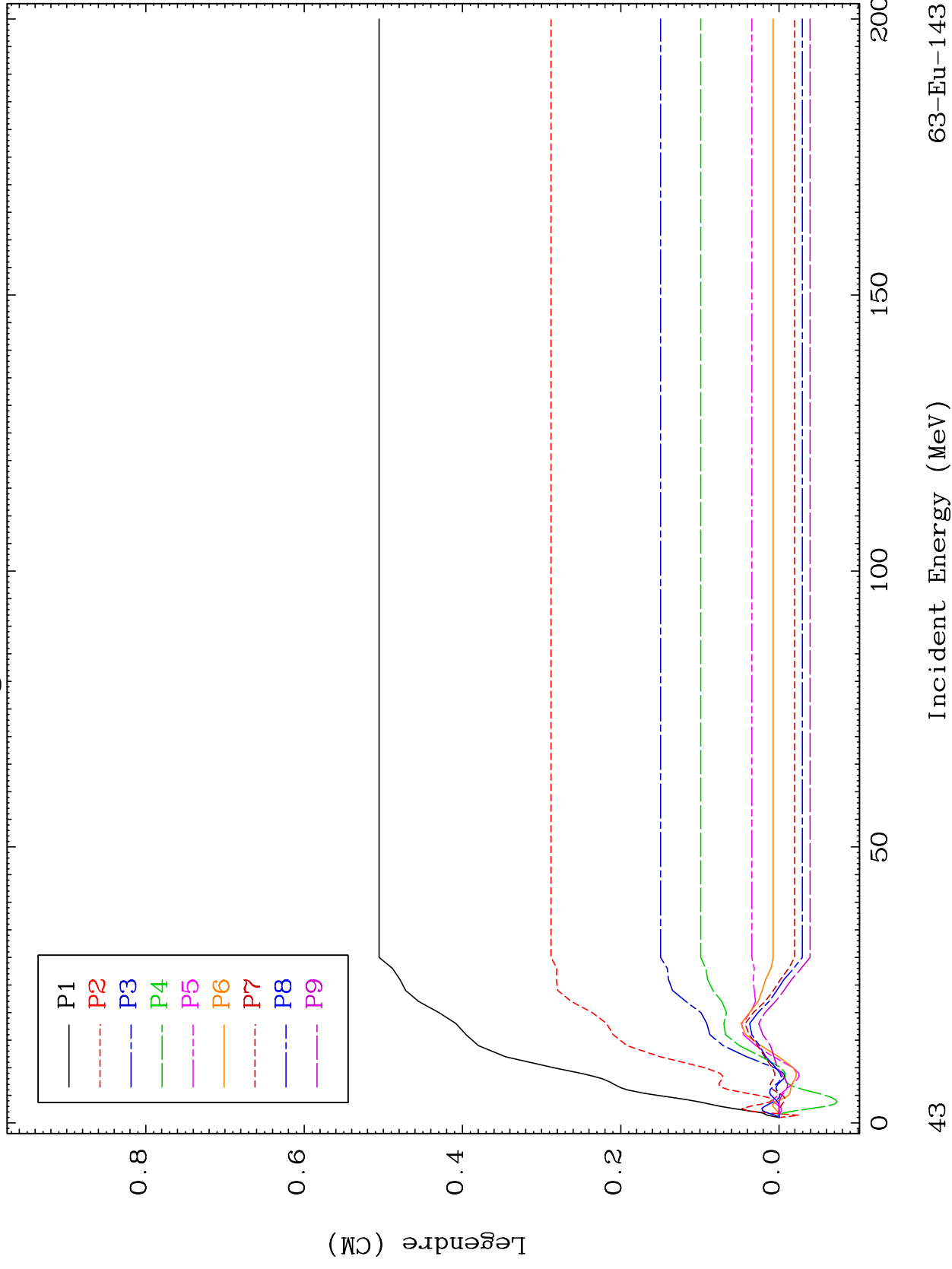
Incident Energy (MeV)

63-Eu-143

MAT 6301

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

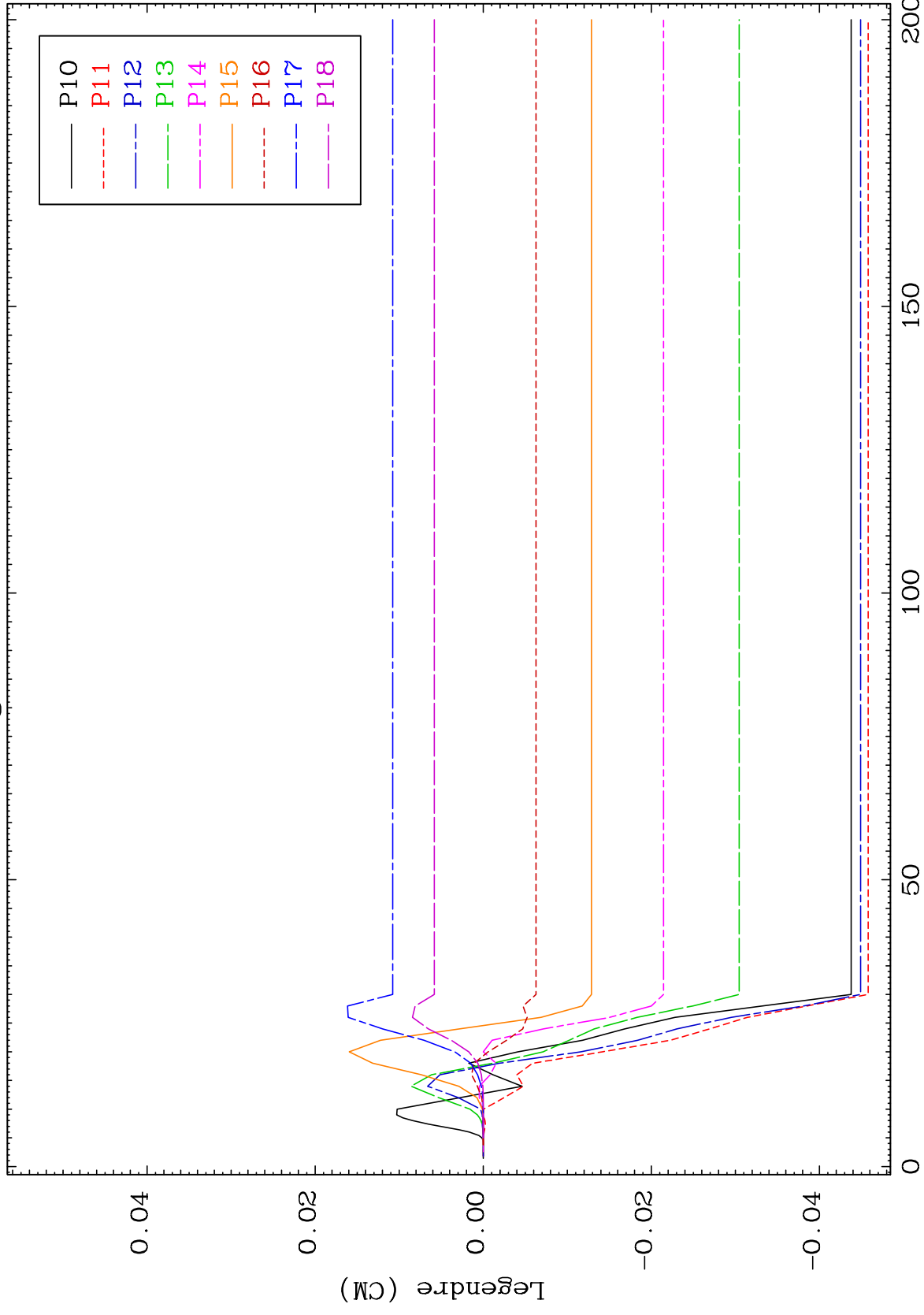
63-Eu-143



MAT 6301

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

63-Eu-143



44

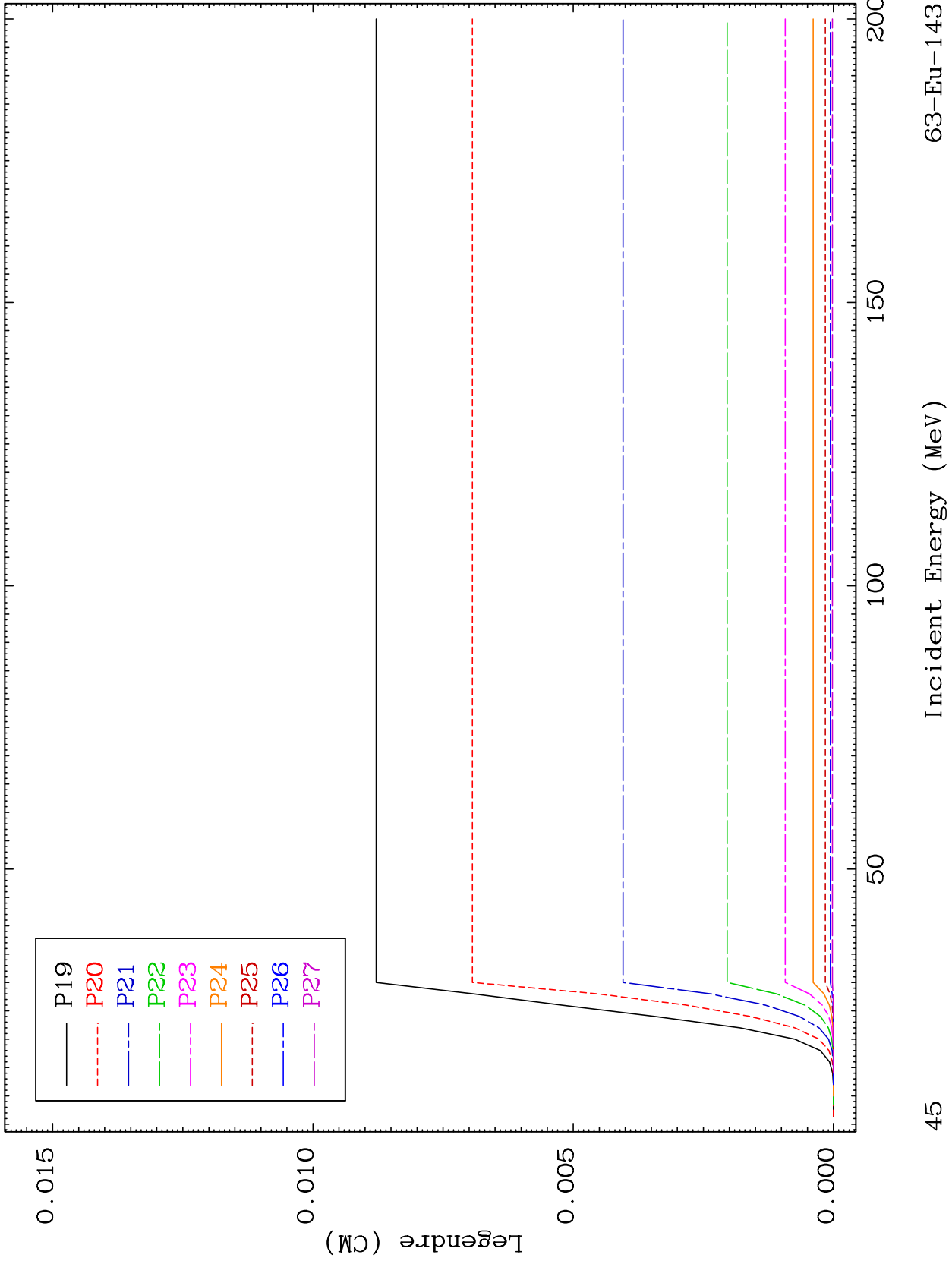
Incident Energy (MeV)

63-Eu-143

MAT 6301

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

63-Eu-143



45

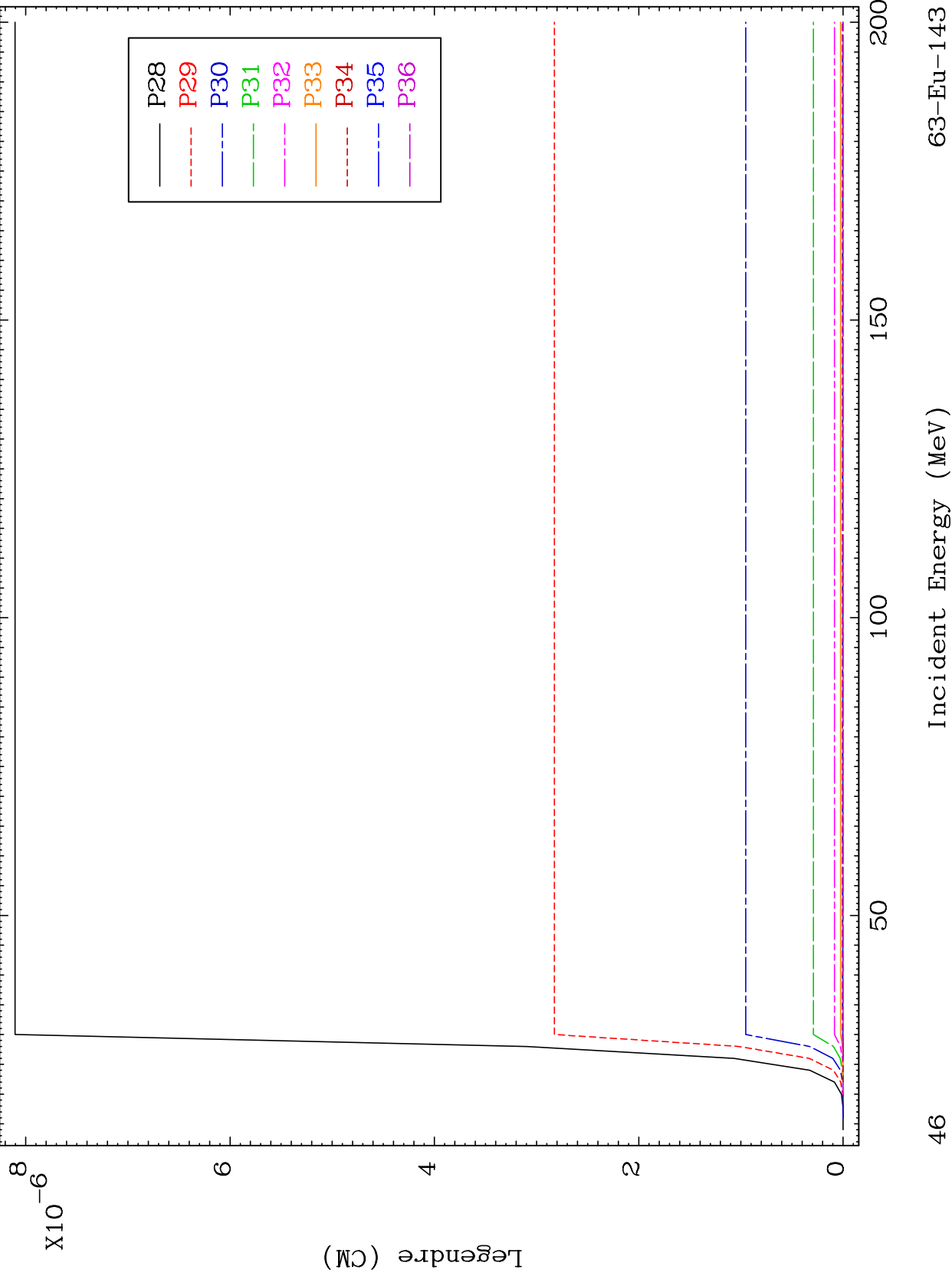
Incident Energy (MeV)

63-Eu-143

MAT 6301

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

63-Eu-143

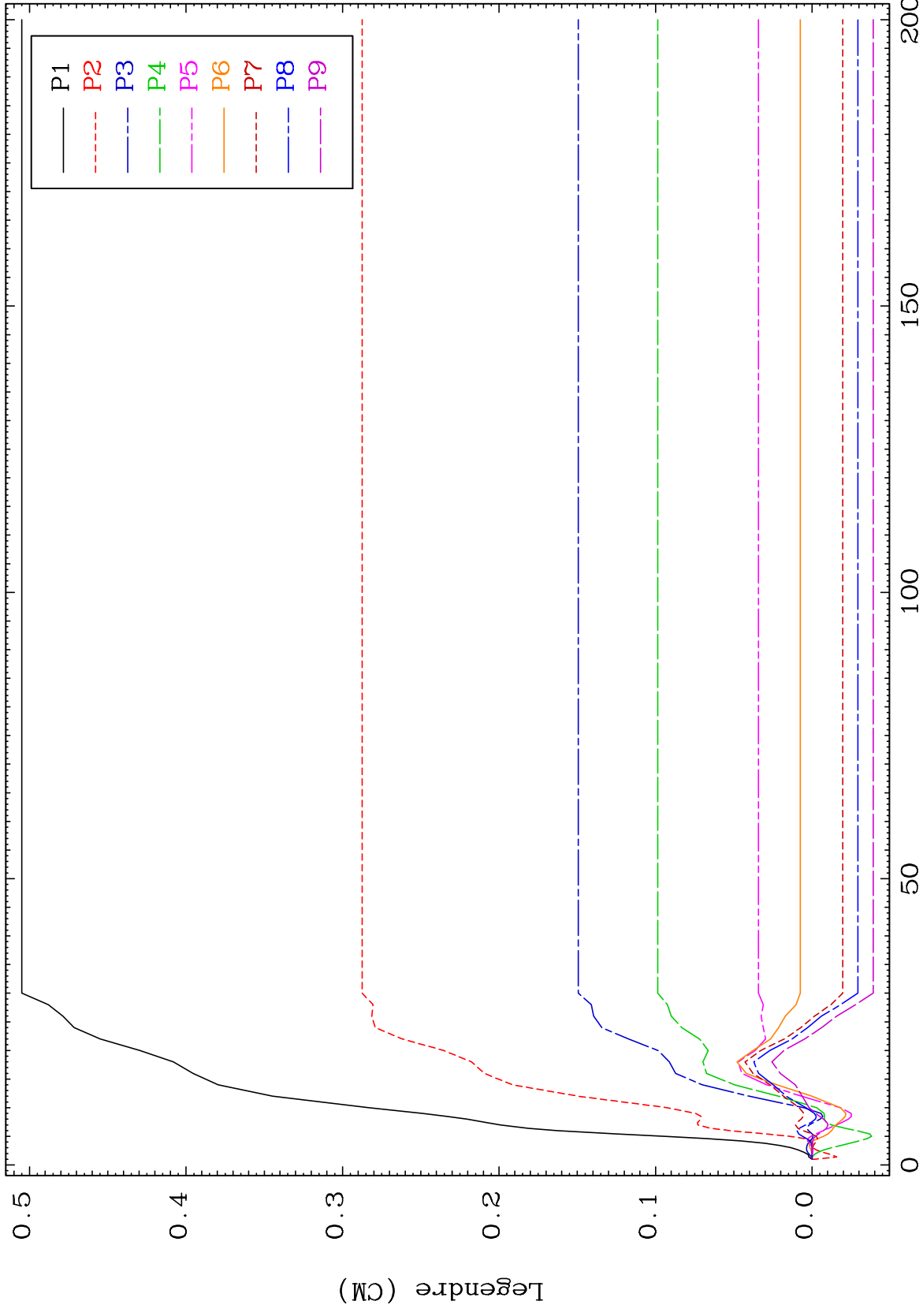


MAT 6301

MT= 58 (n,n') Level

63-Eu-143

Legendre Coefficients



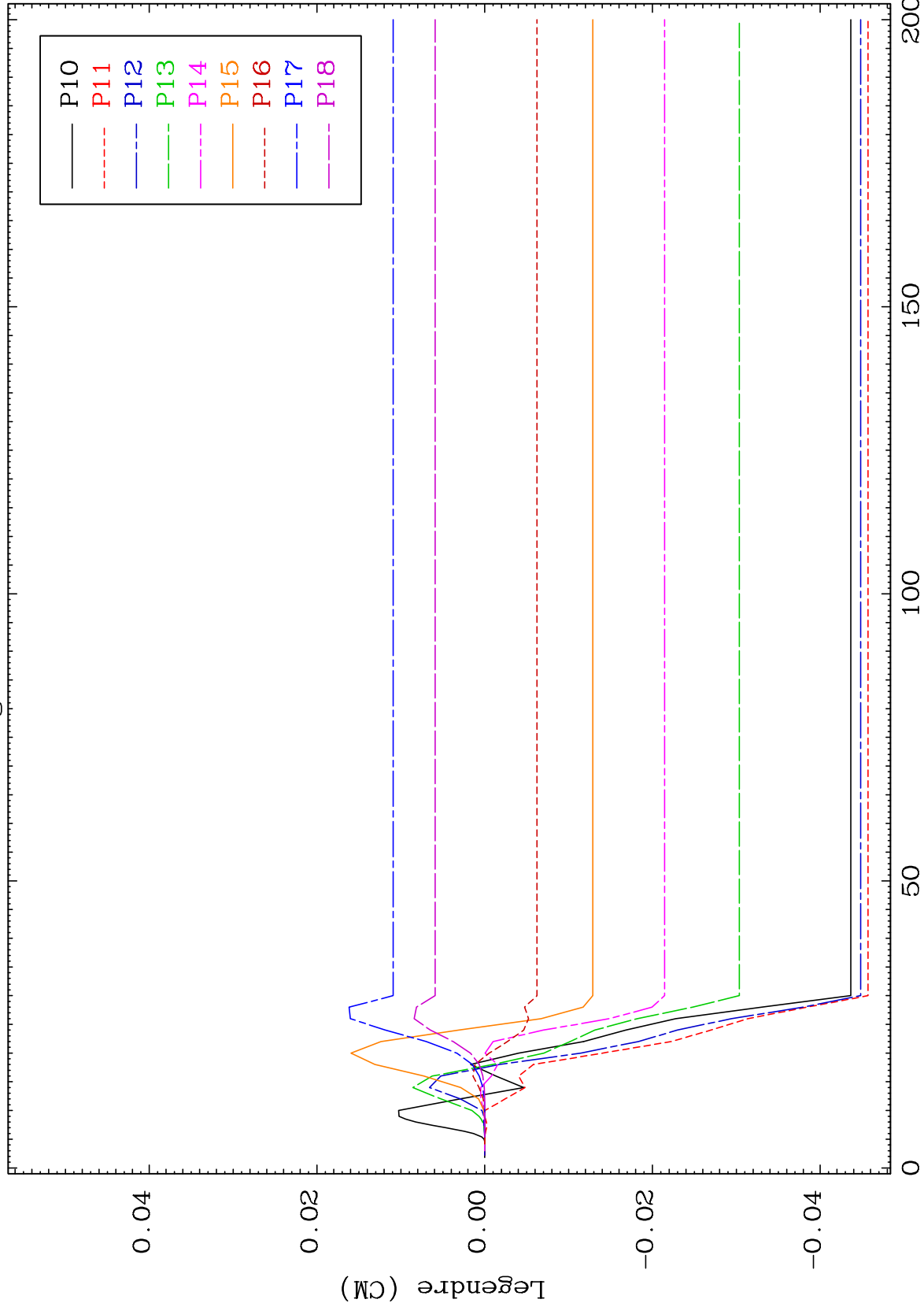
47

63-Eu-143

MAT 6301

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

63-Eu-143



48

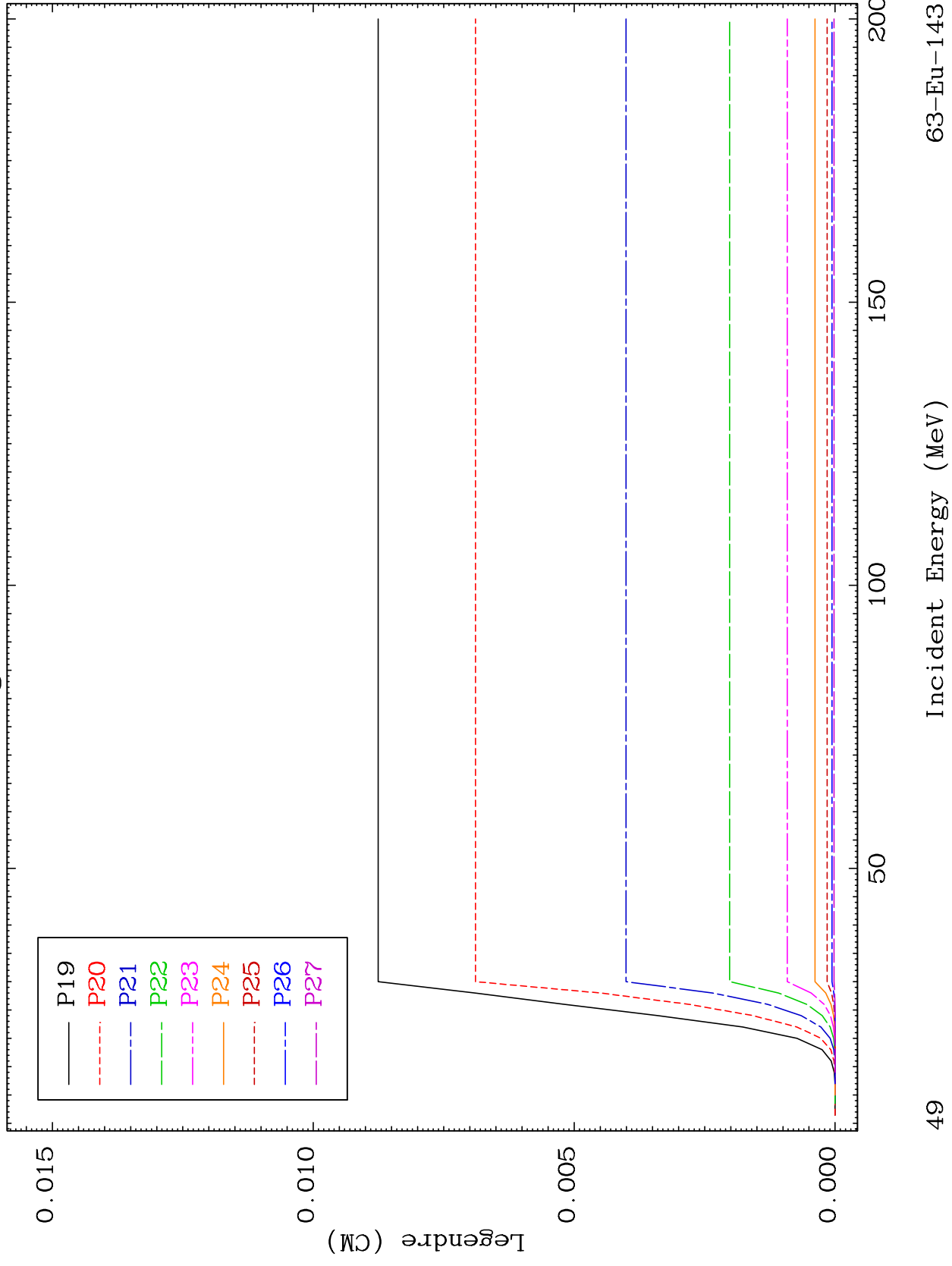
Incident Energy (MeV)

63-Eu-143

MAT 6301

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

63-Eu-143



49

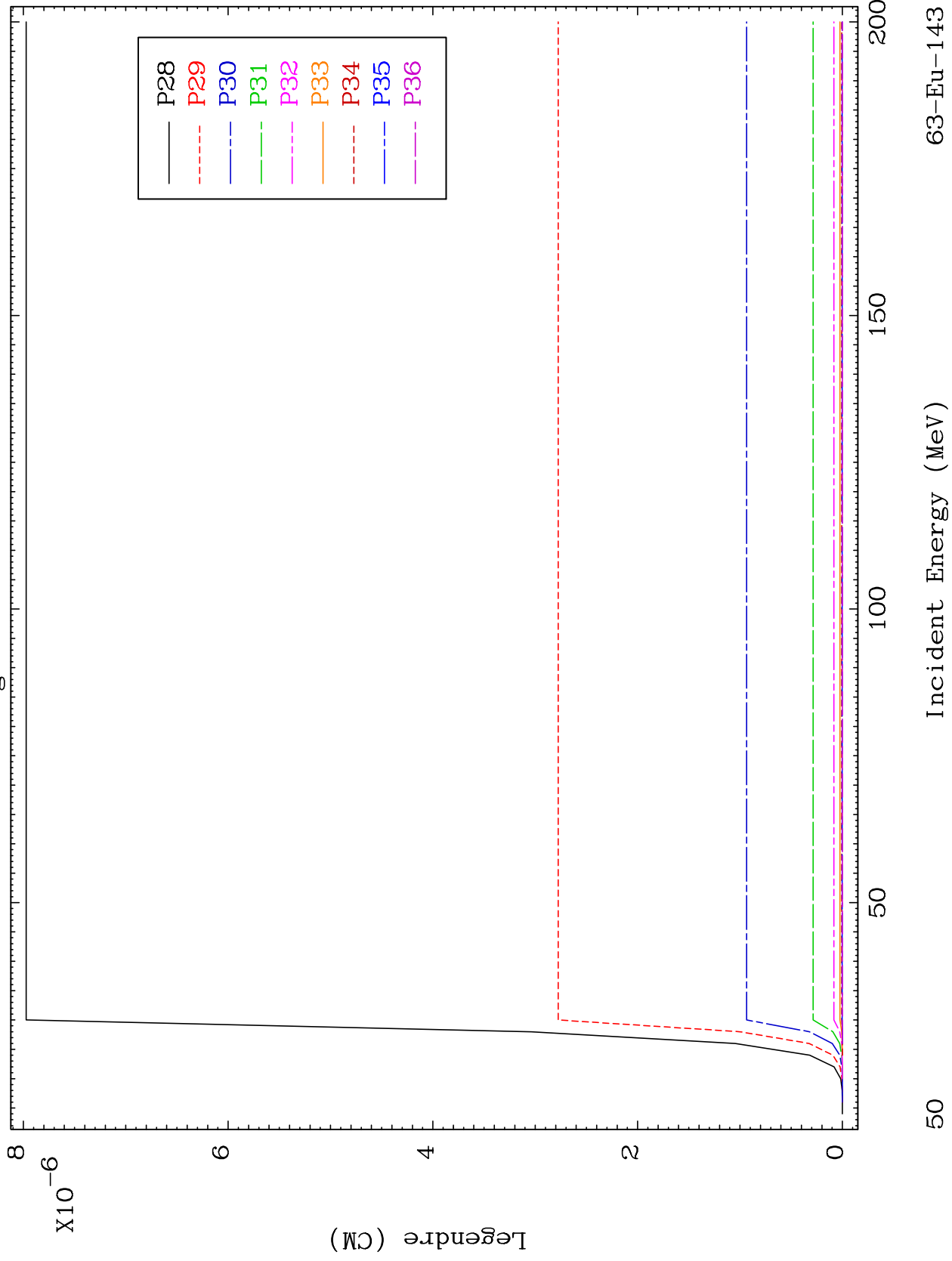
Incident Energy (MeV)

63-Eu-143

MAT 6301

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

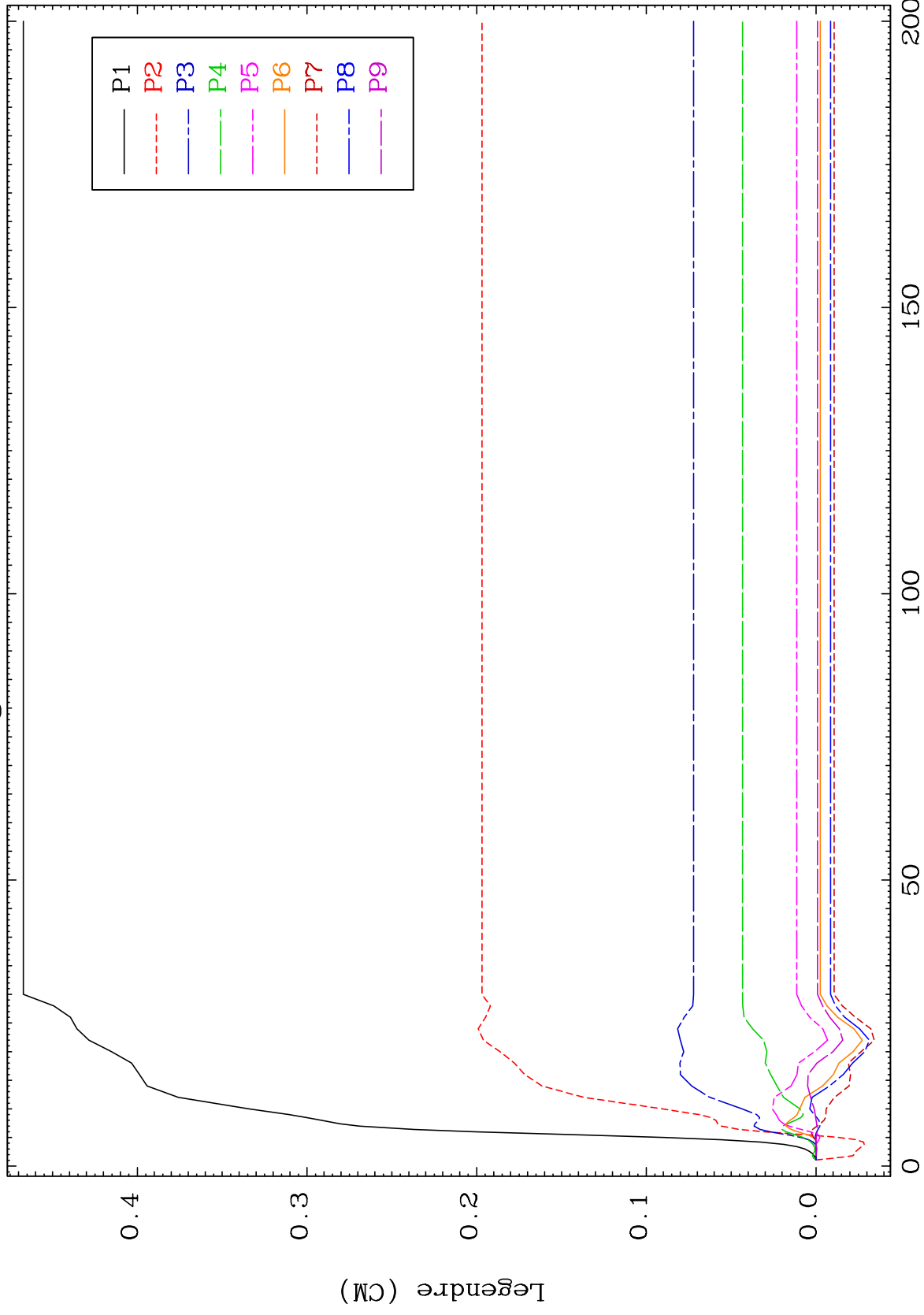
63-Eu-143



MAT 6301

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

63-Eu-143

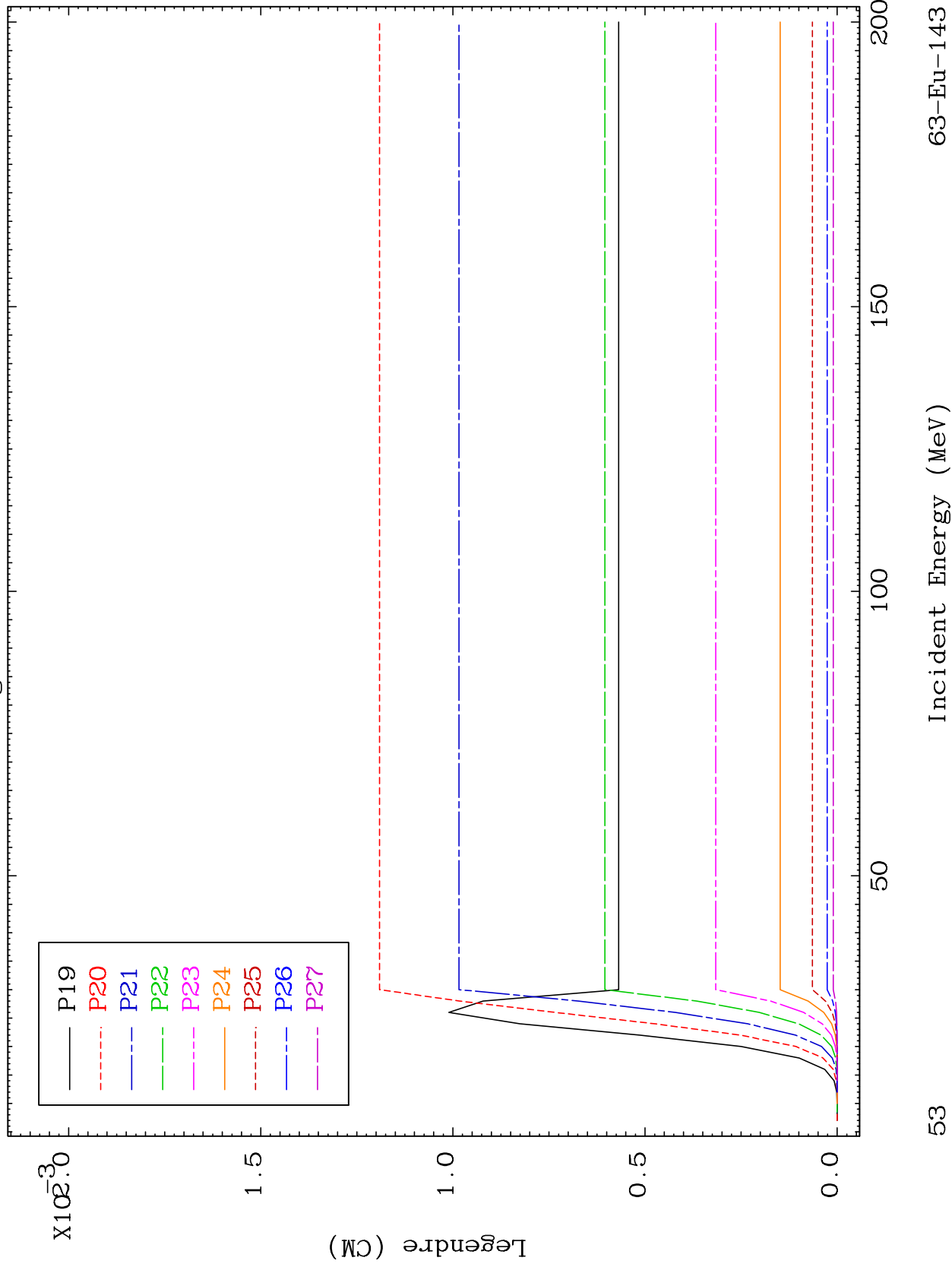


51

Incident Energy (MeV)

63-Eu-143

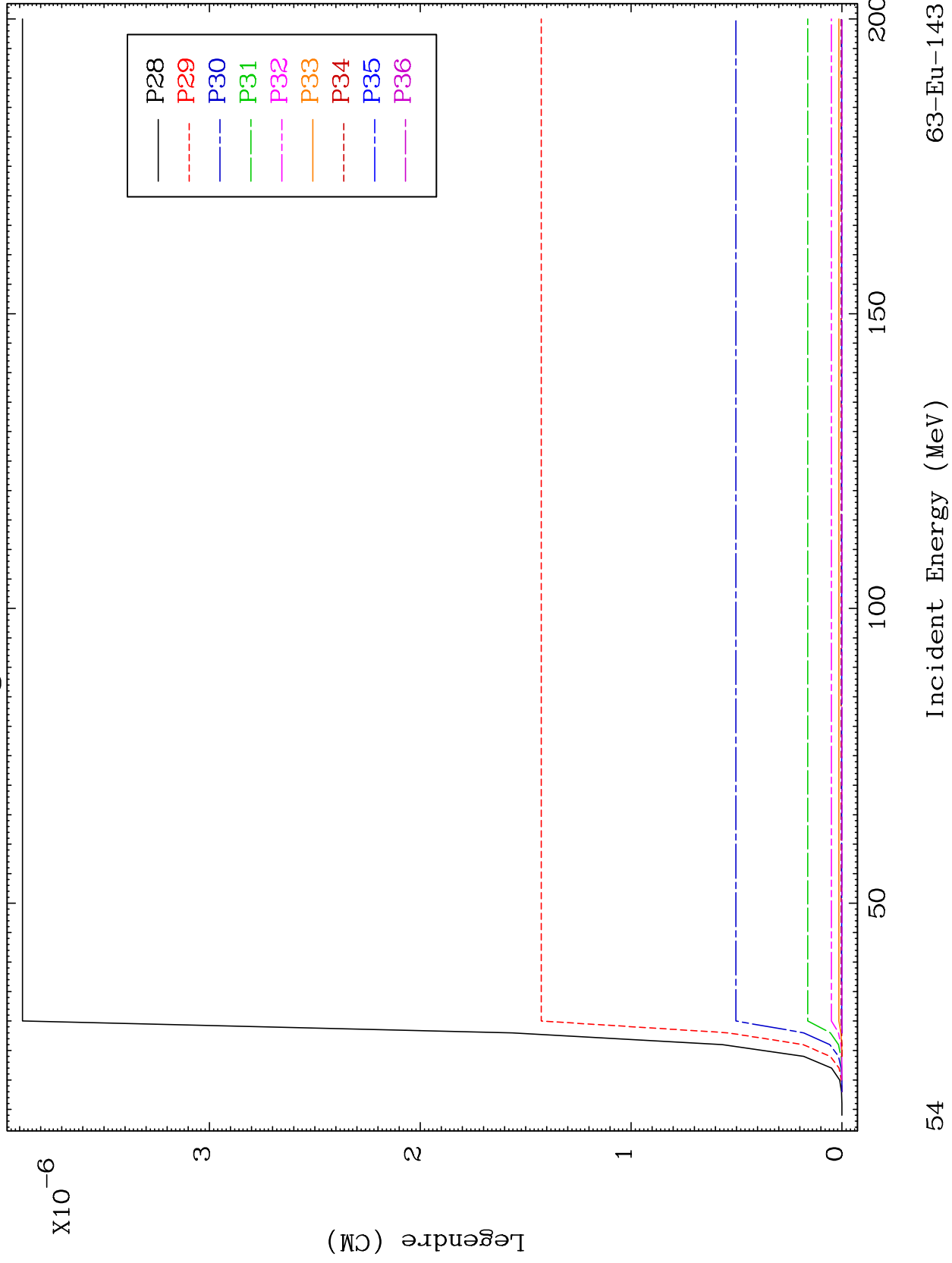




MAT 6301

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

63-Eu-143



54

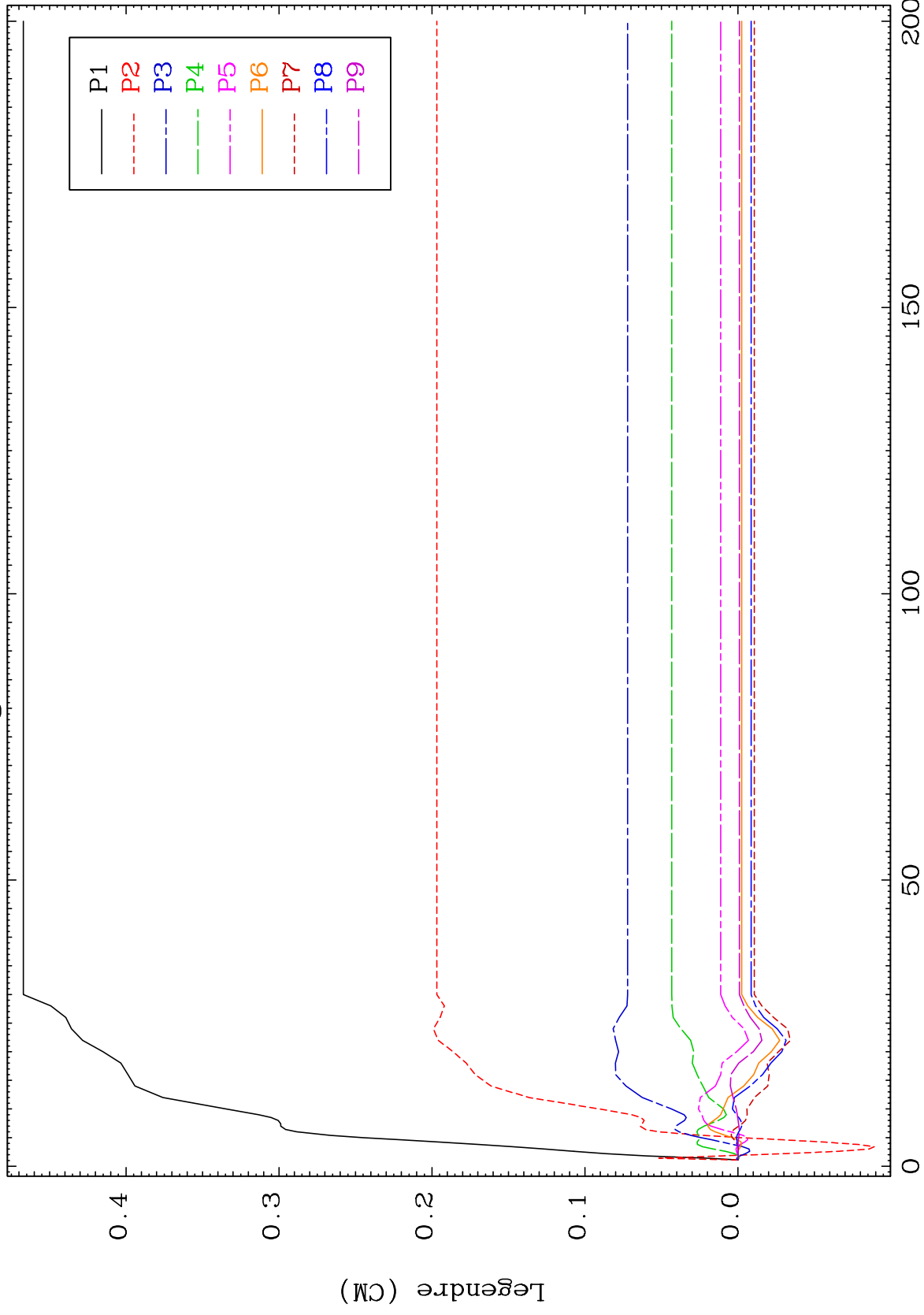
Incident Energy (MeV)

63-Eu-143

MAT 6301

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

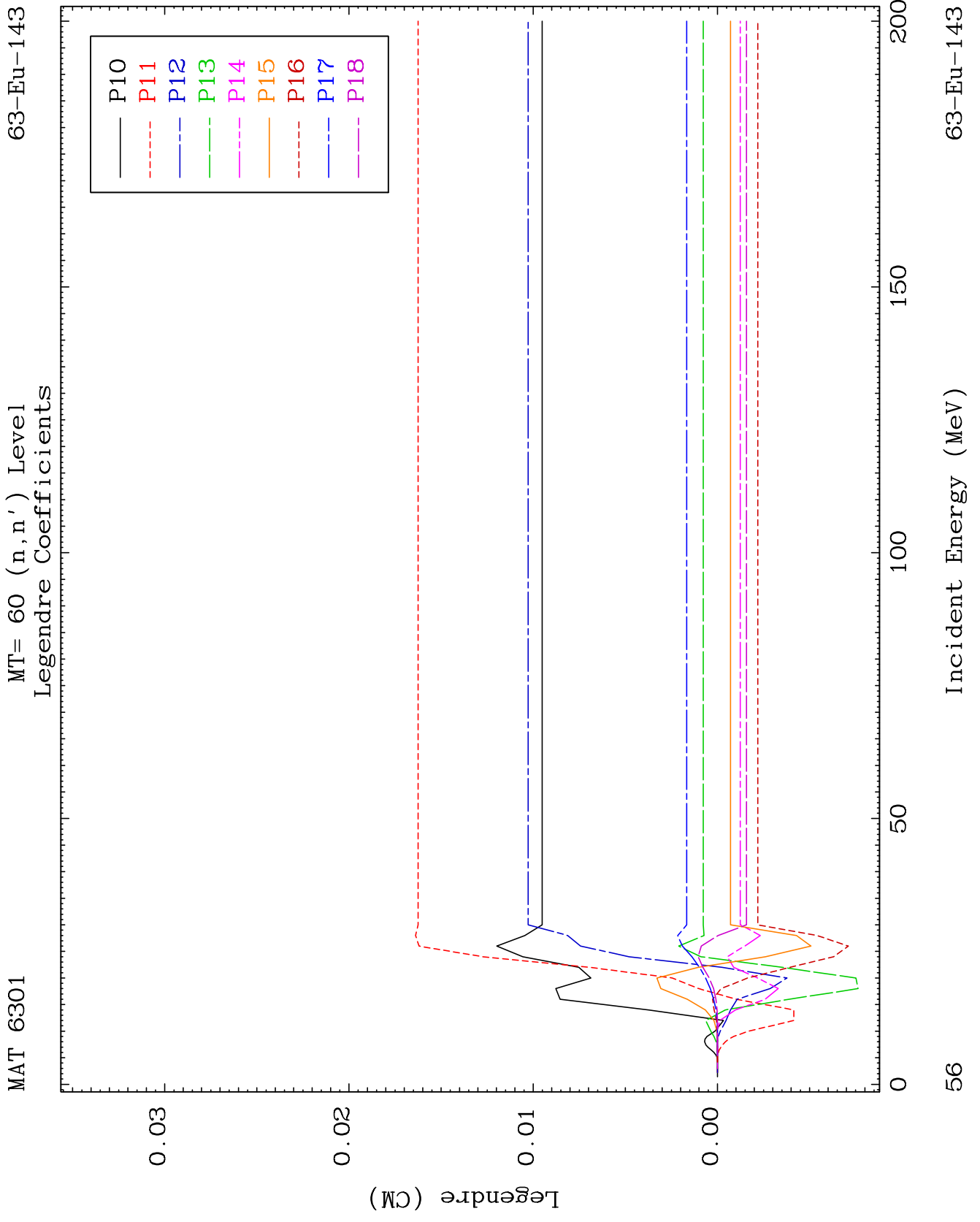
63-Eu-143



63-Eu-143

Incident Energy (MeV)

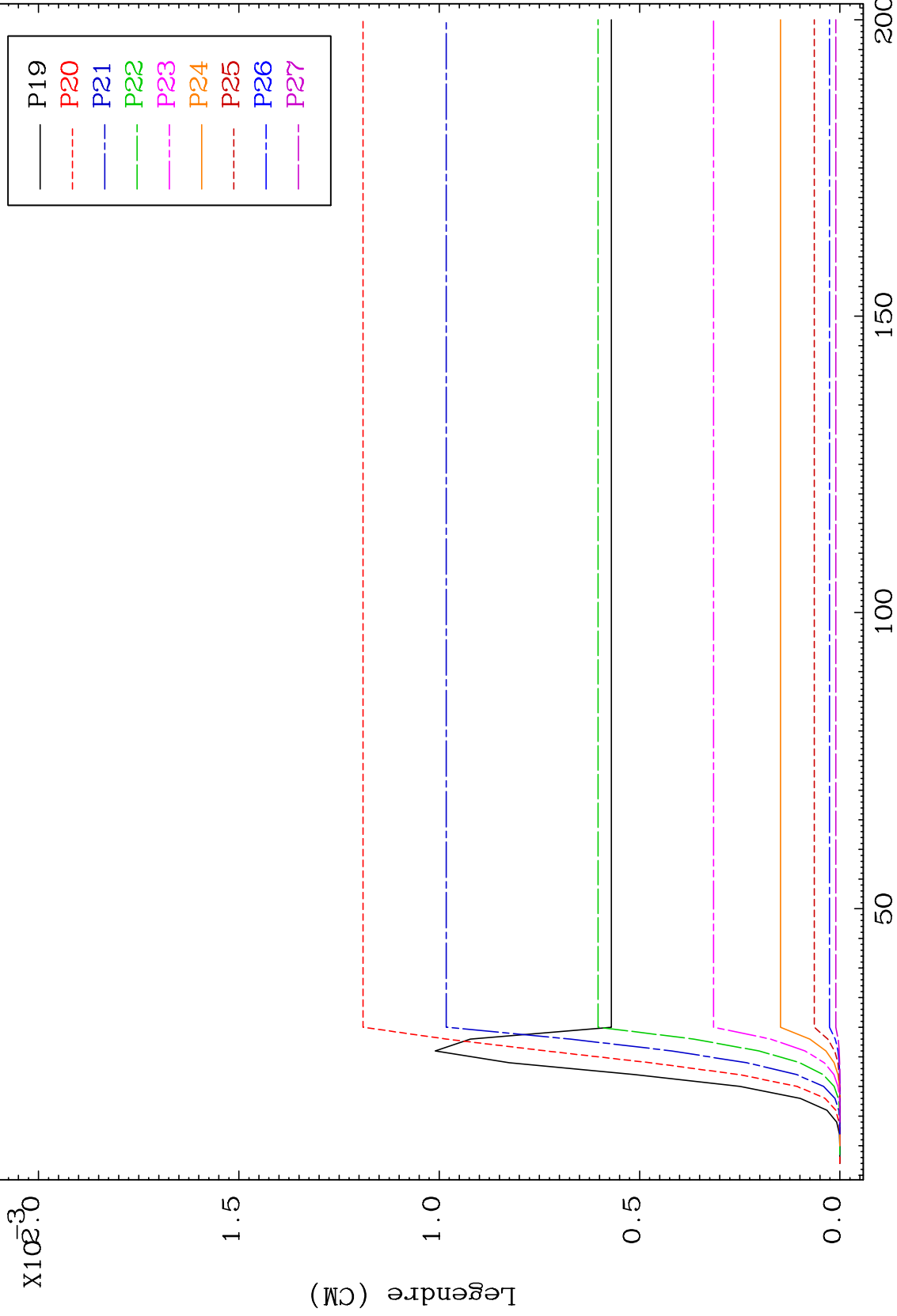
55



MAT 6301

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

63-Eu-143



57

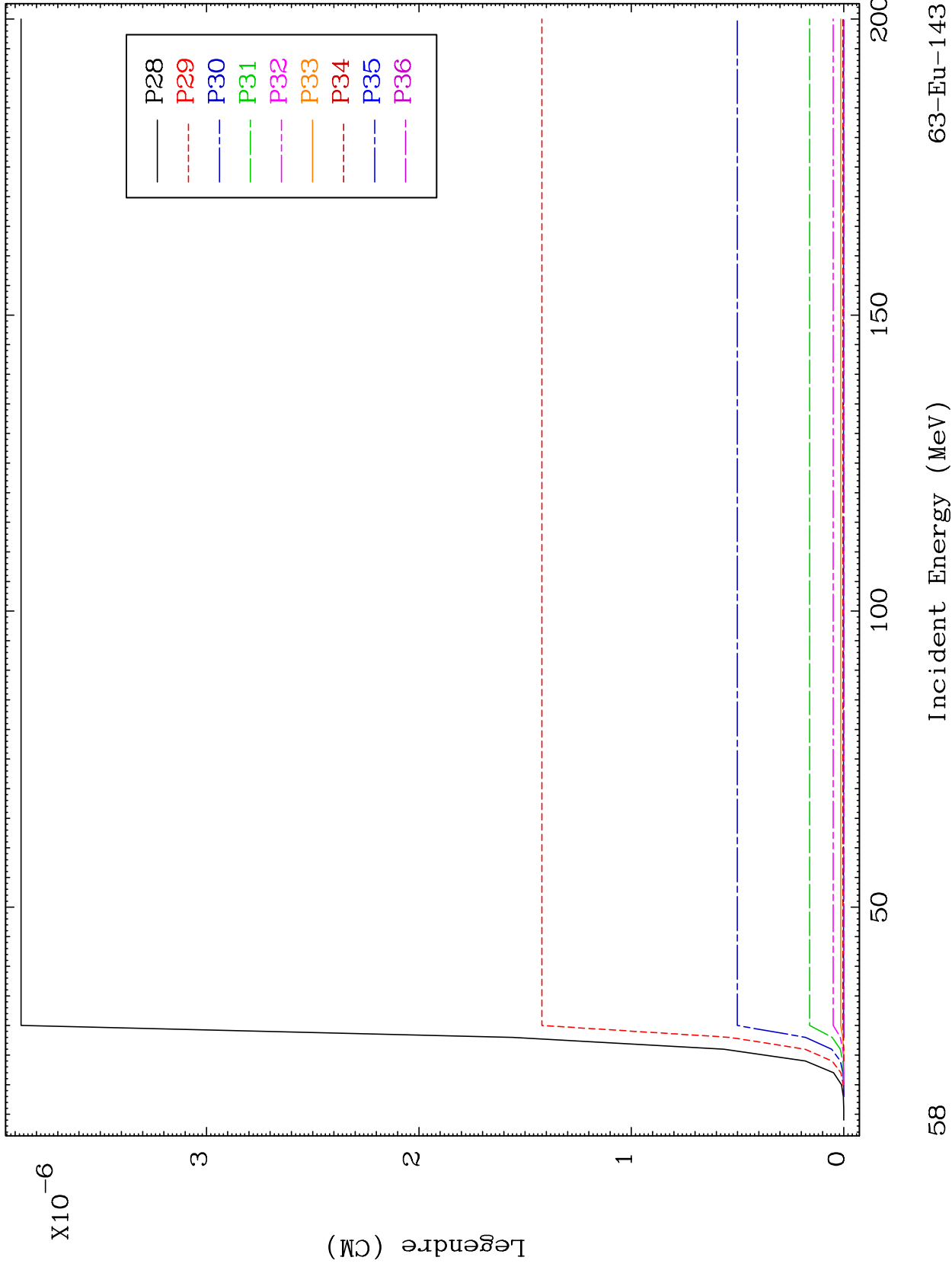
Incident Energy (MeV)

63-Eu-143

MAT 6301

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

63-Eu-143



58

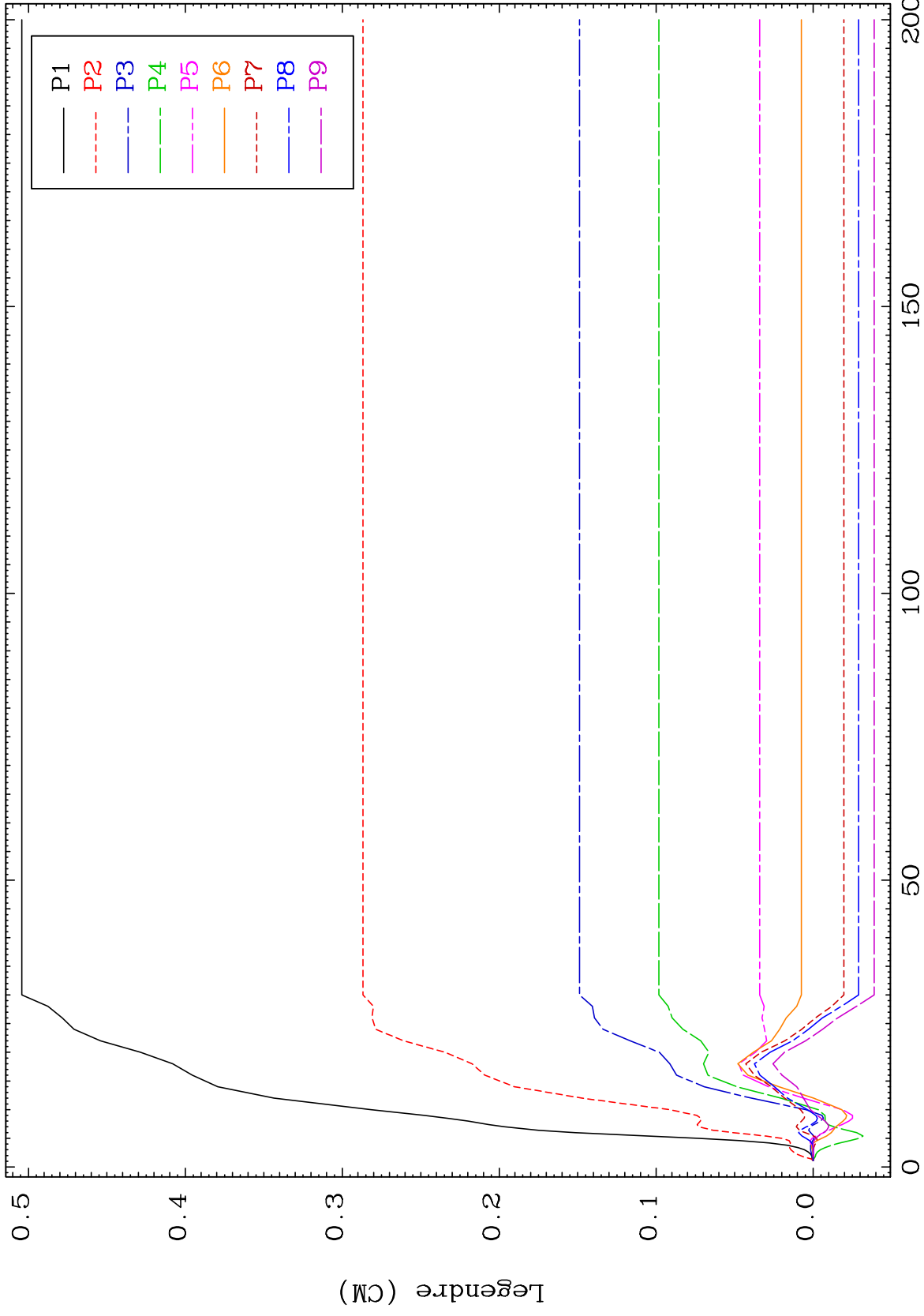
Incident Energy (MeV)

63-Eu-143

MAT 6301

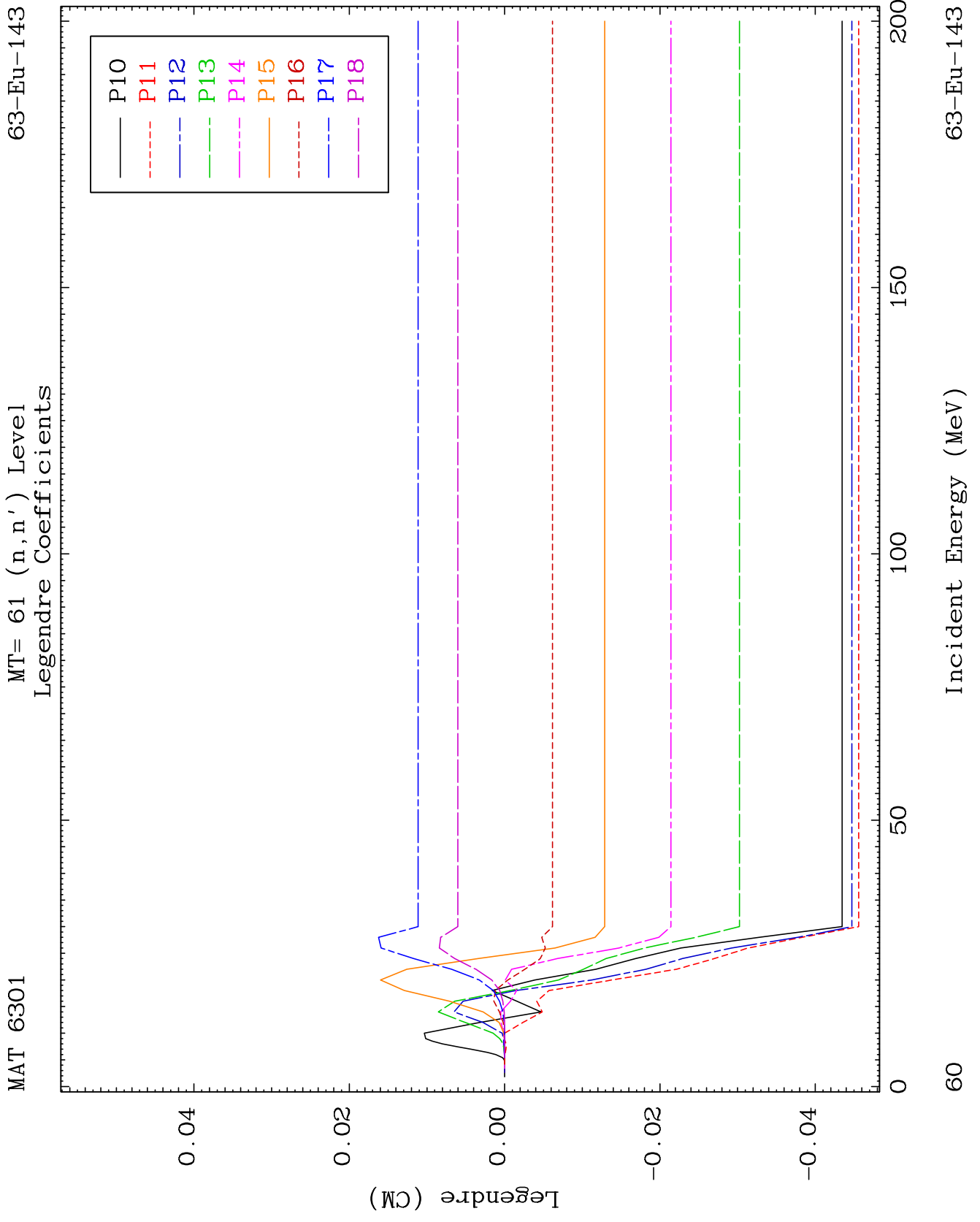
MT= 61 (n,n') Level  
Legendre Coefficients

63-Eu-143



59

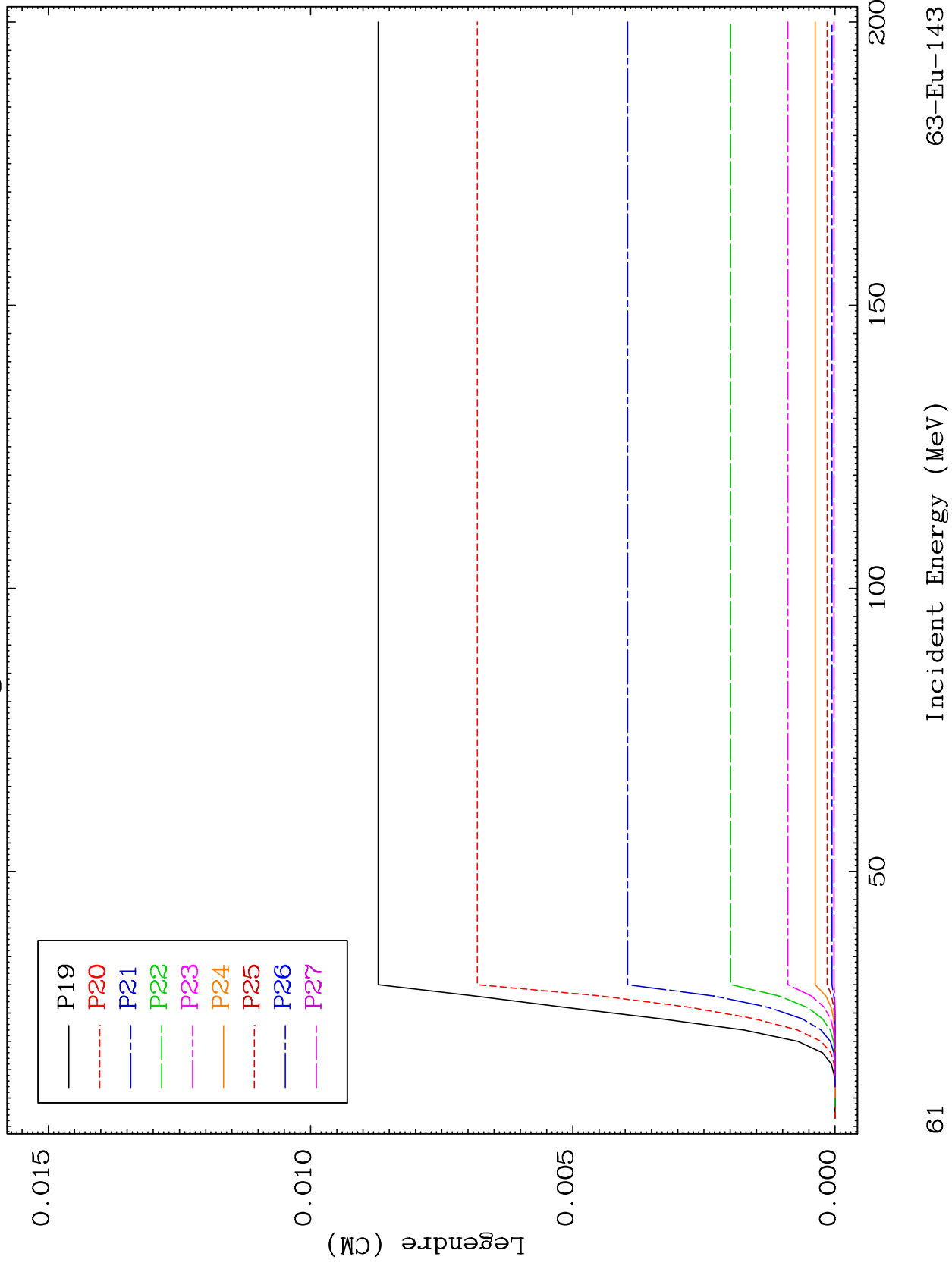
63-Eu-143



MAT 6301

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

63-Eu-143



61

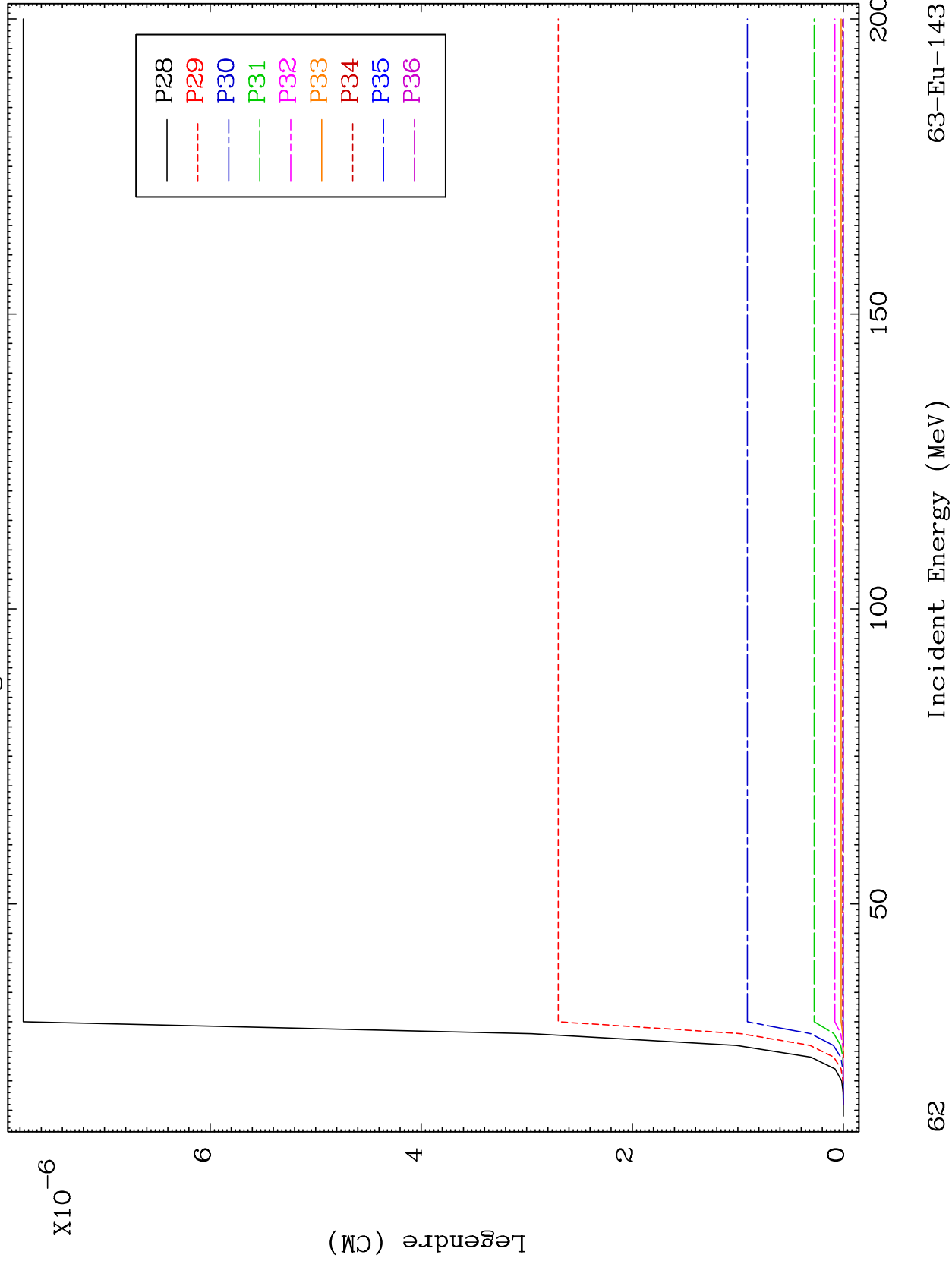
Incident Energy (MeV)

63-Eu-143

MAT 6301

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

63-Eu-143



62

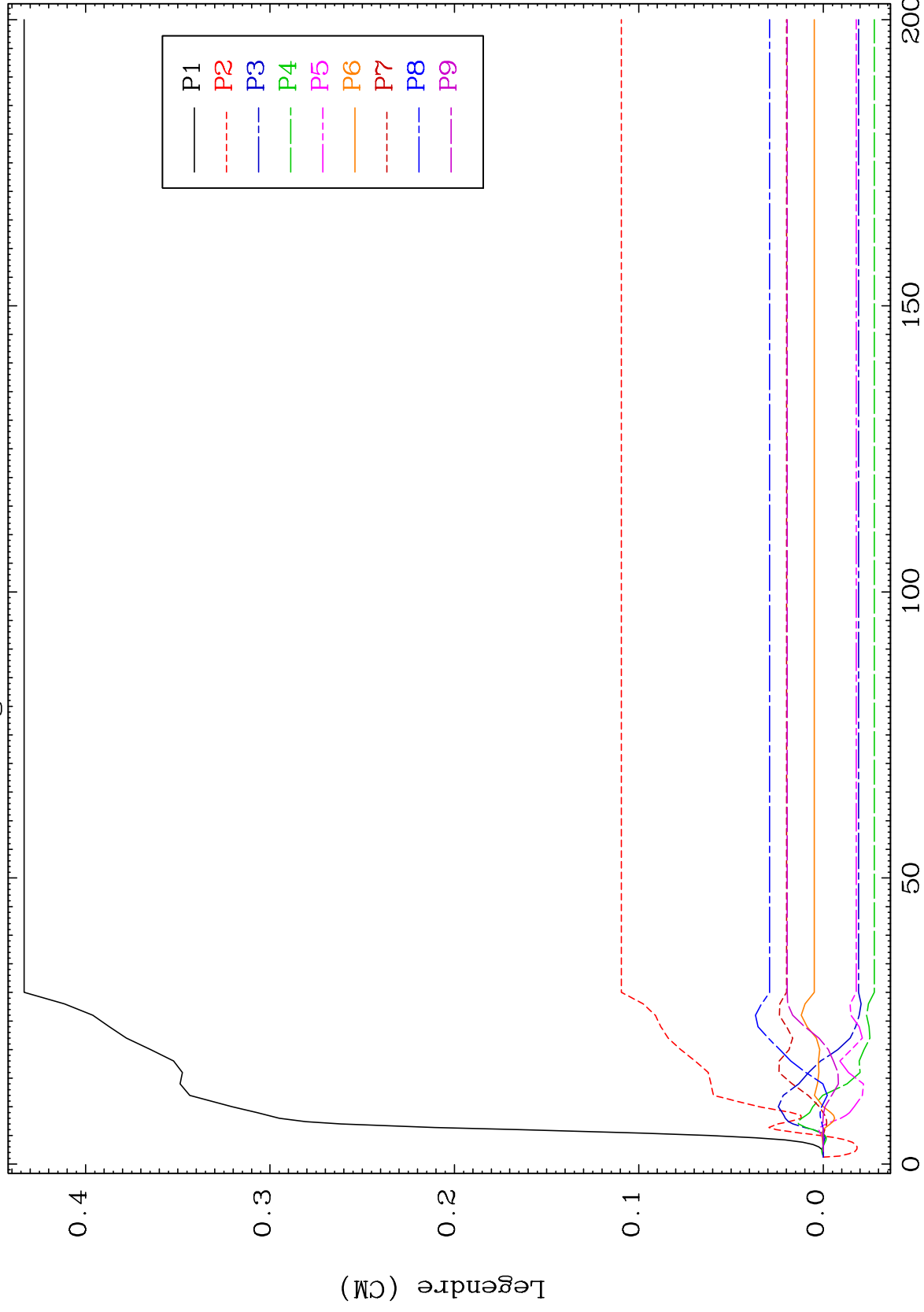
Incident Energy (MeV)

63-Eu-143

MAT 6301

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

63-Eu-143



63

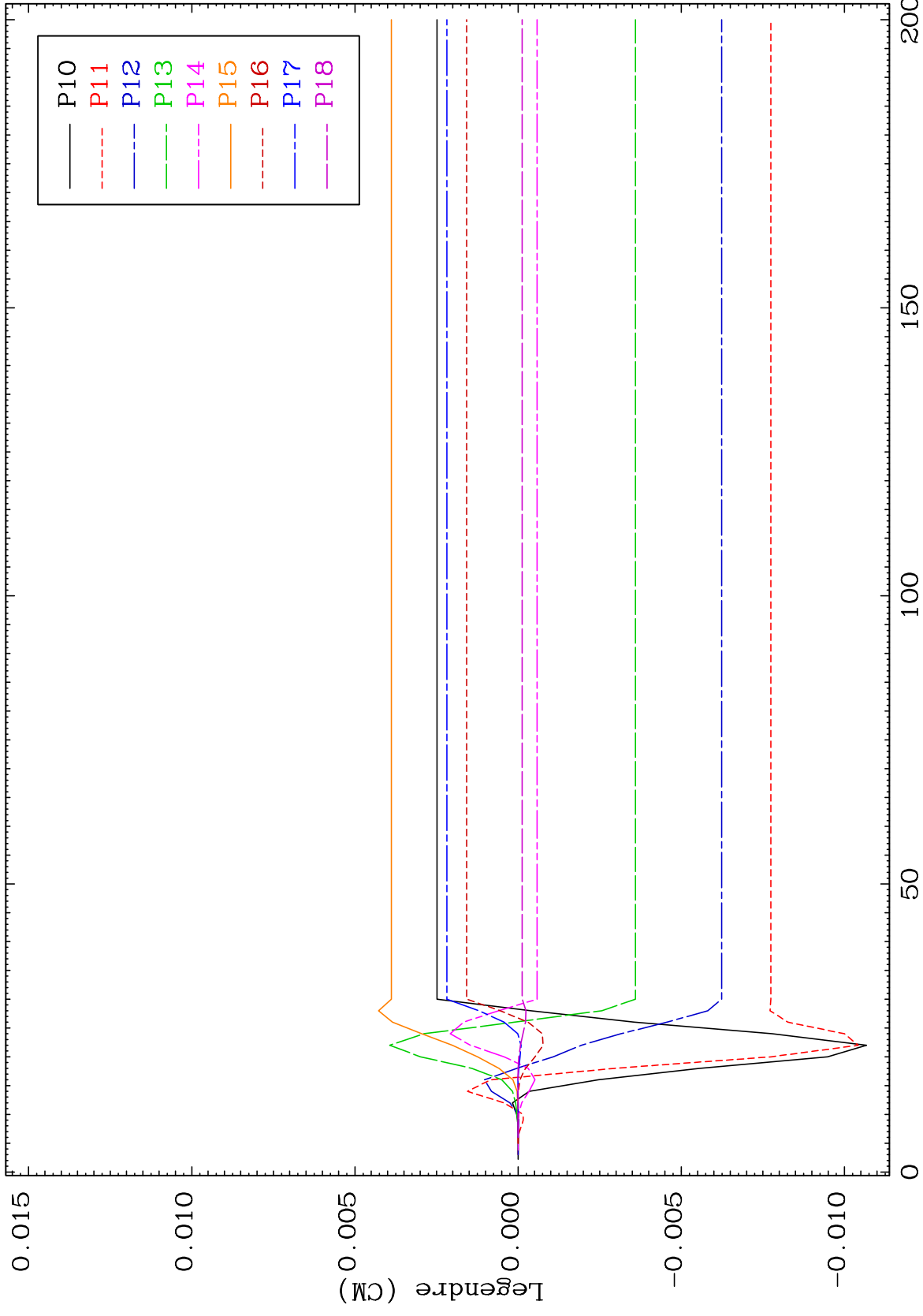
Incident Energy (MeV)

63-Eu-143

MAT 6301

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

63-Eu-143



64

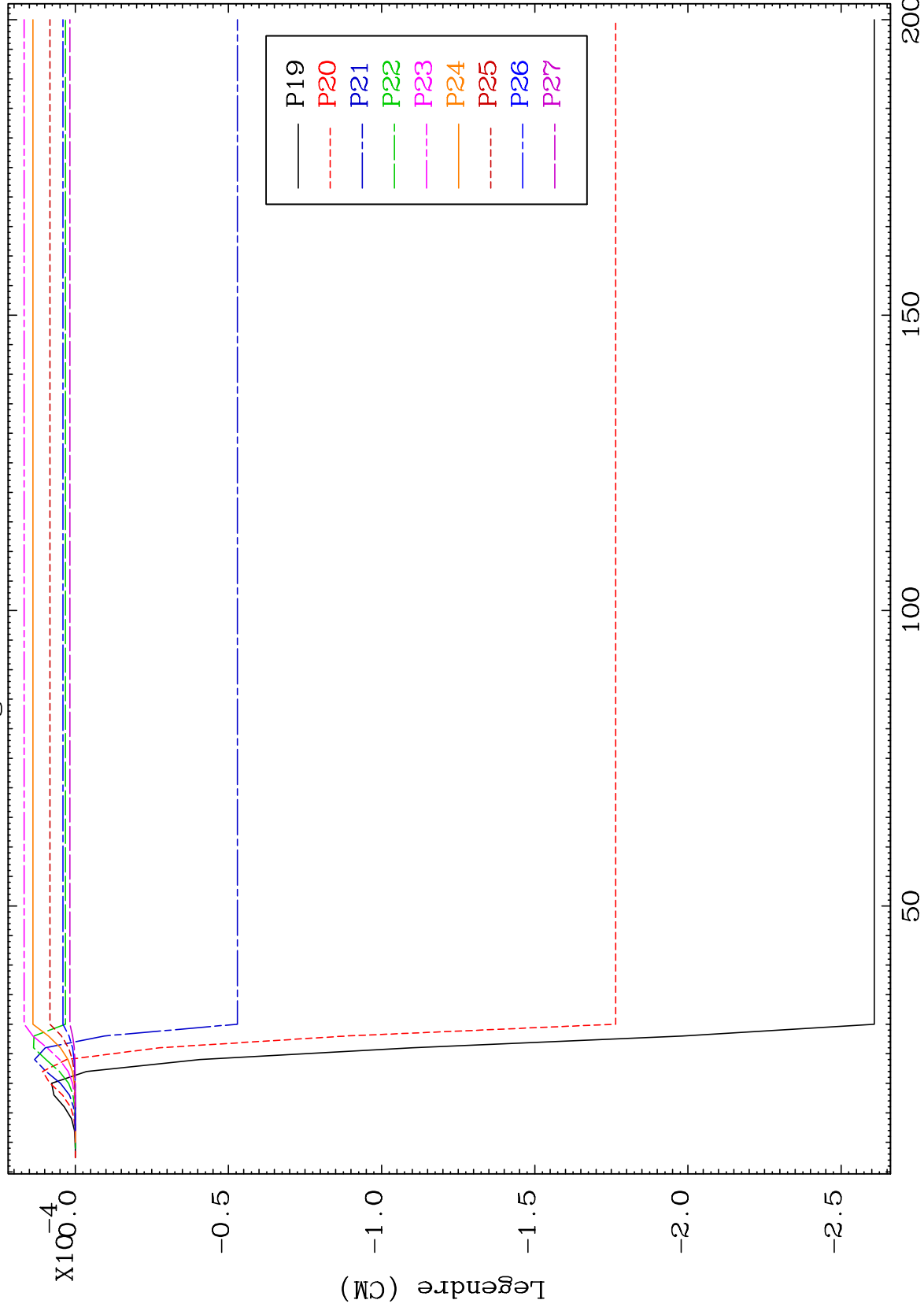
Incident Energy (MeV)

63-Eu-143

MAT 6301

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

63-Eu-143



65

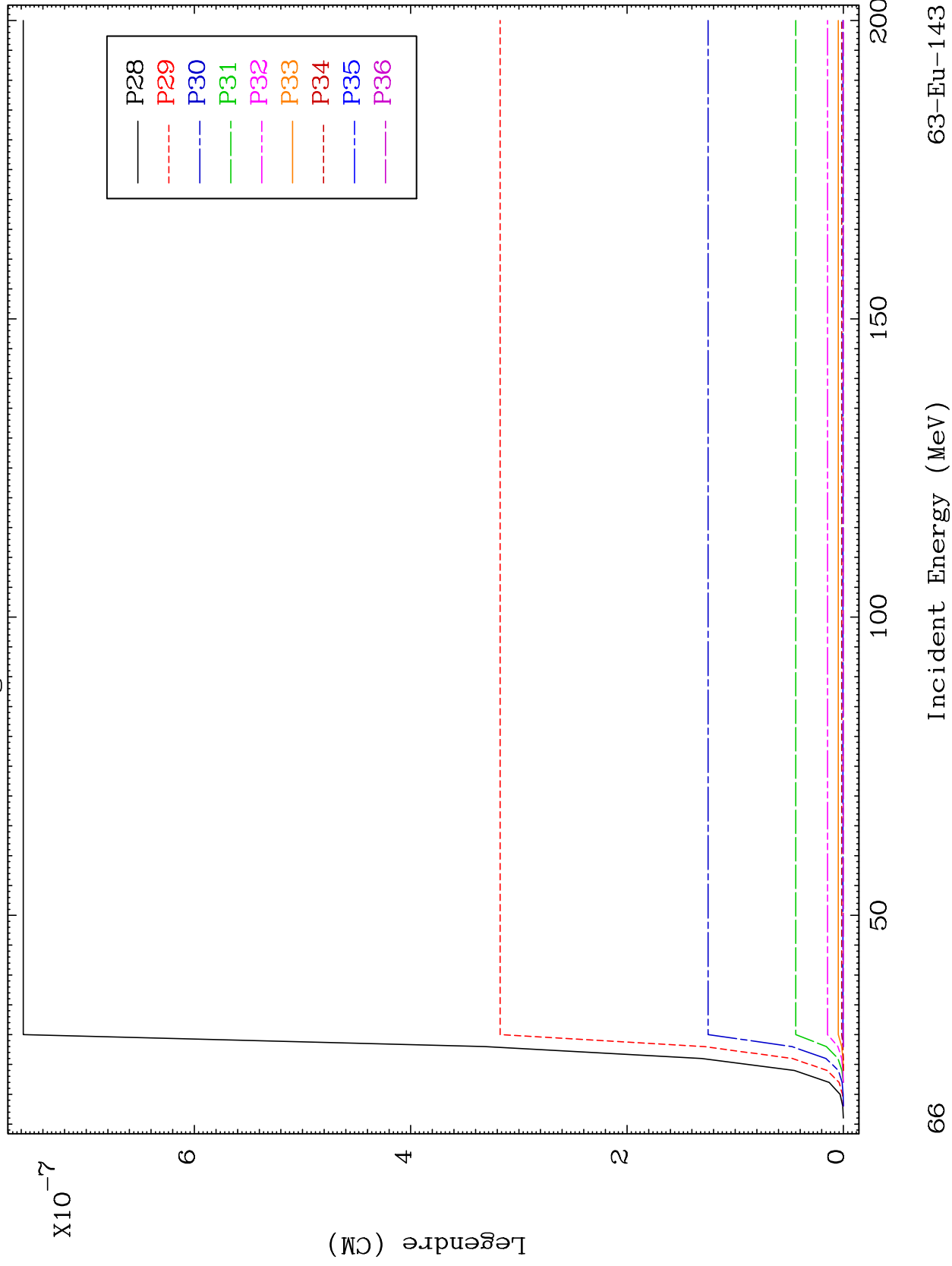
Incident Energy (MeV)

63-Eu-143

MAT 6301

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

63-Eu-143



66

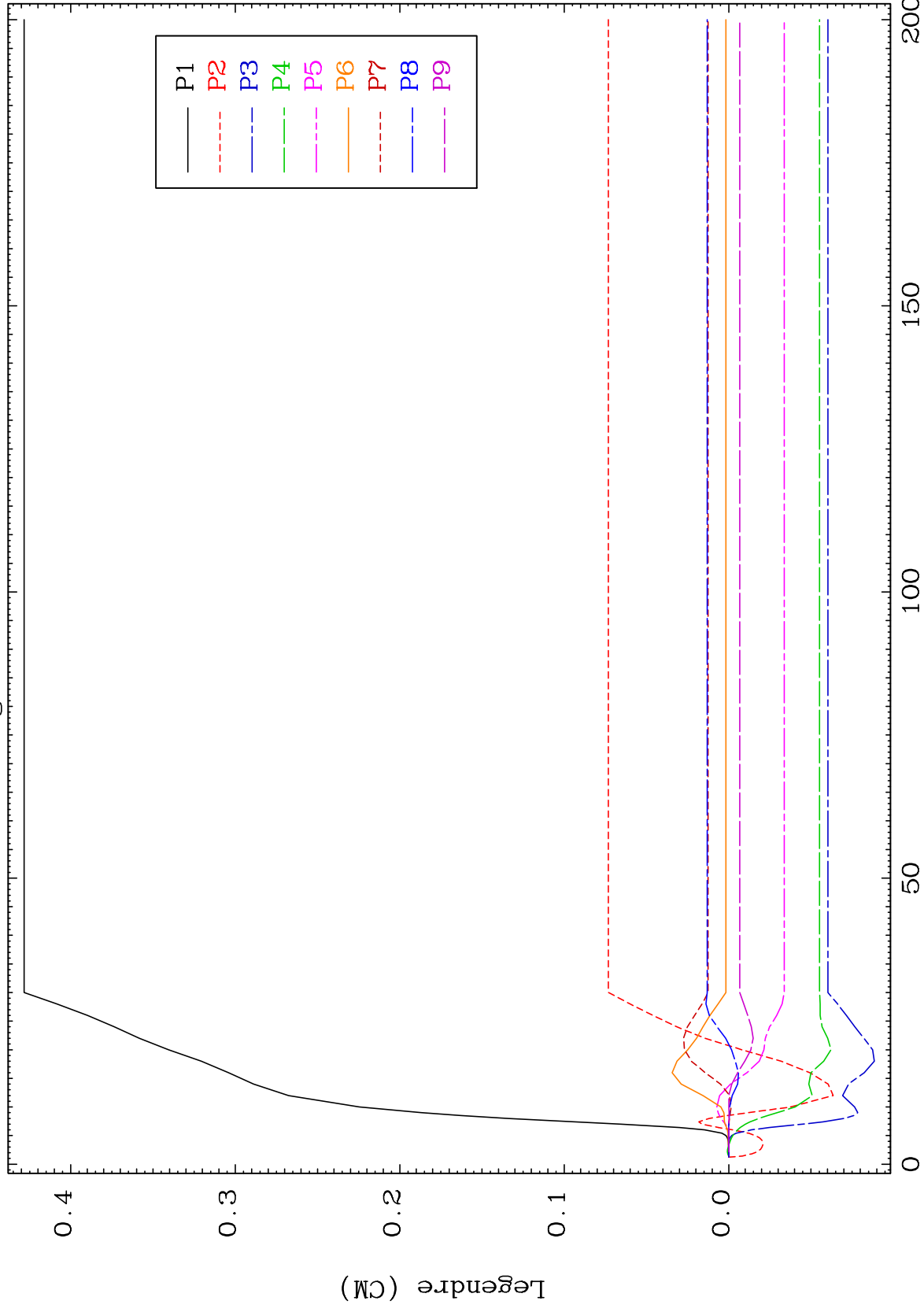
Incident Energy (MeV)

63-Eu-143

MAT 6301

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

63-Eu-143



63-Eu-143

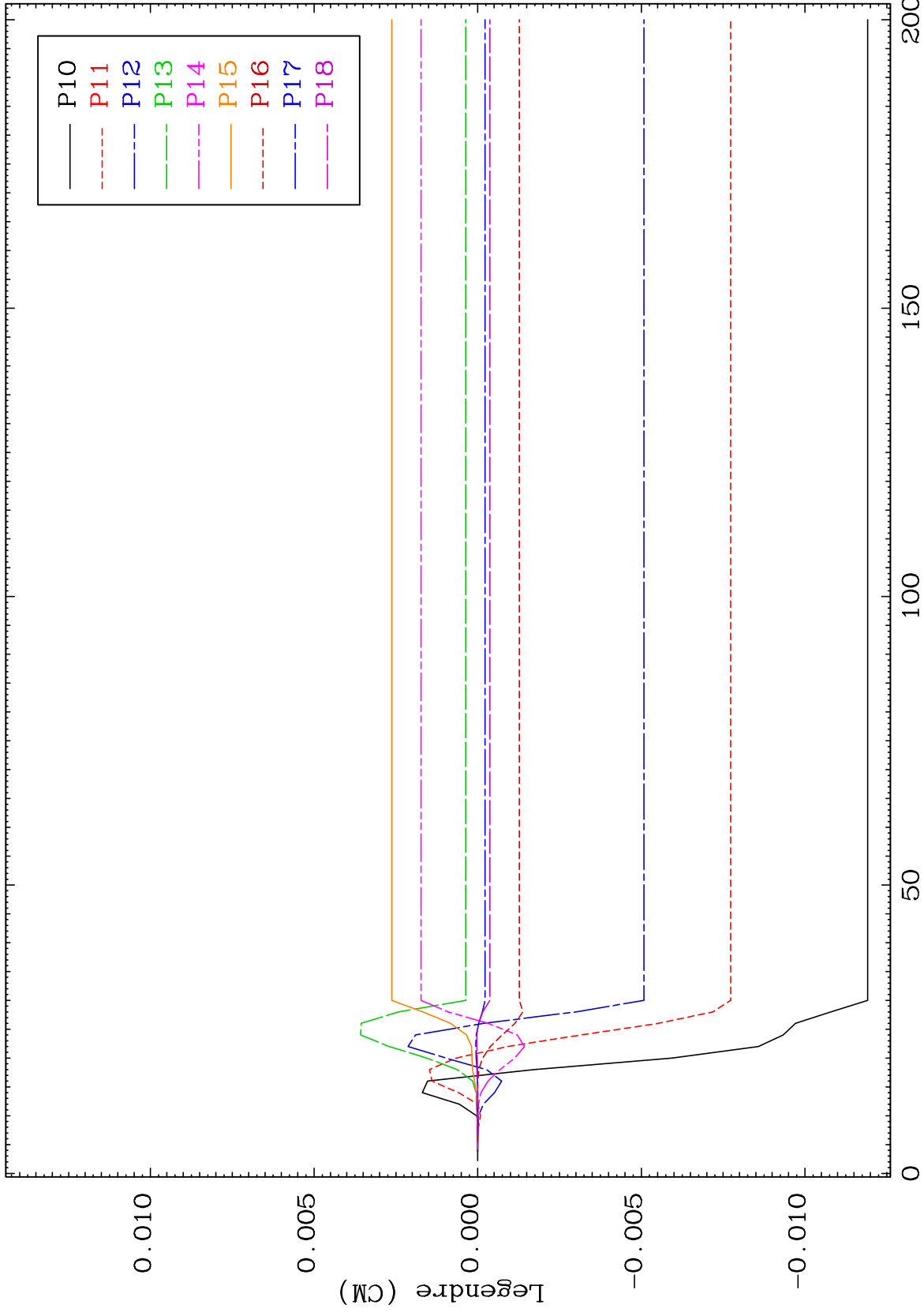
Incident Energy (MeV)

67

MAT 6301

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

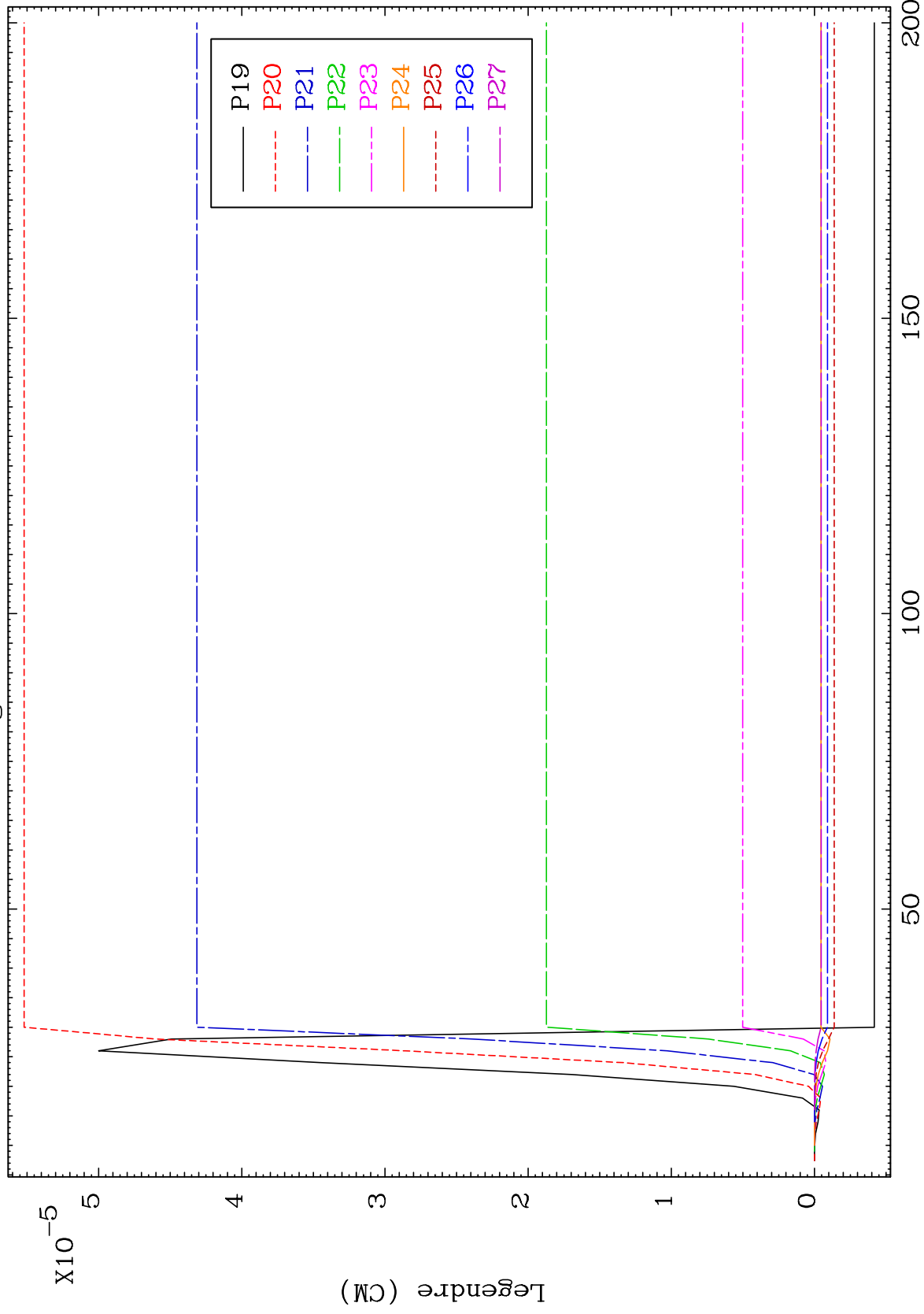
63-Eu-143



68

Incident Energy (MeV)

63-Eu-143

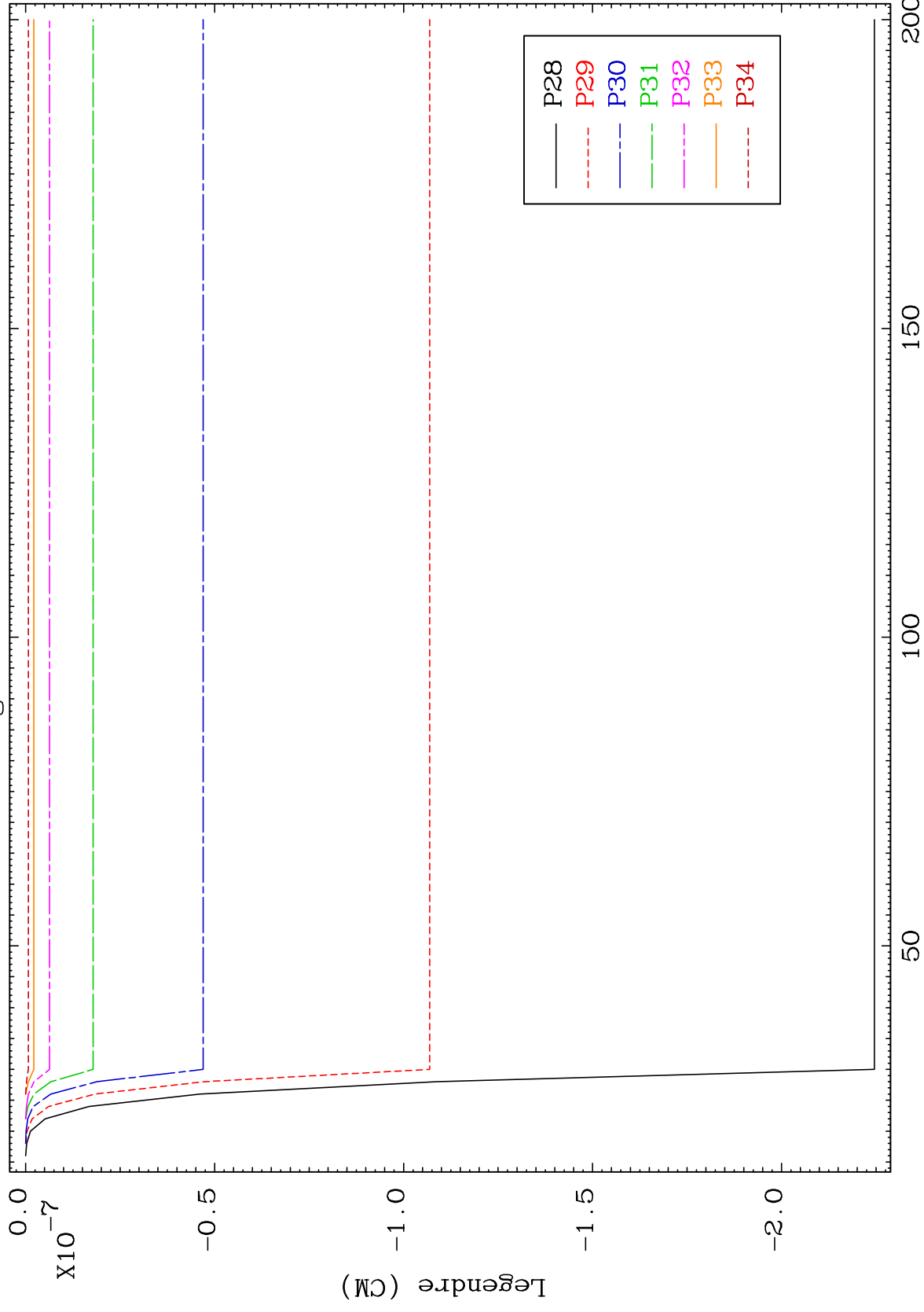


MAT 6301

MT= 63 (n,n') Level

63-Eu-143

Legendre Coefficients



70

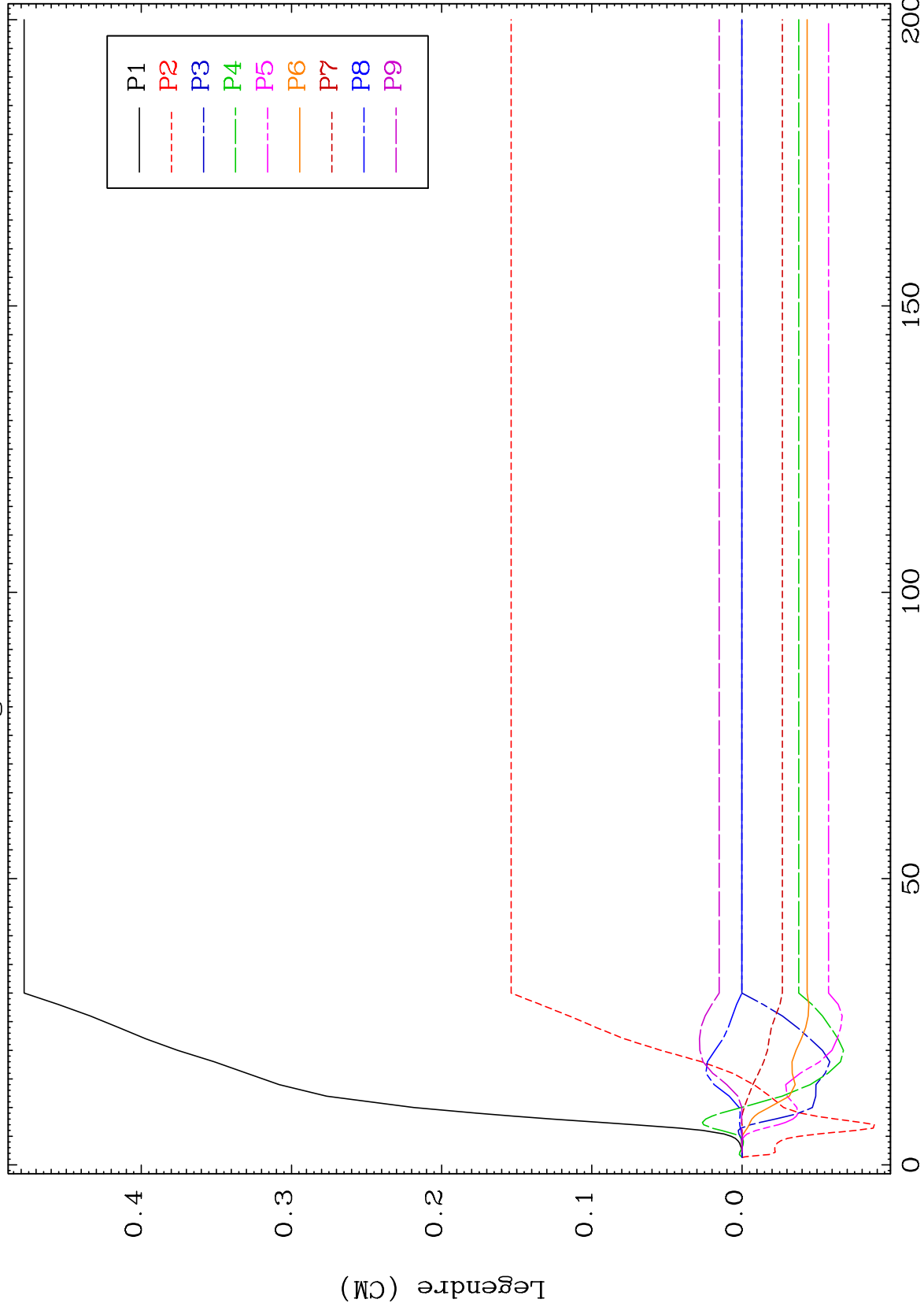
Incident Energy (MeV)

63-Eu-143

MAT 6301

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

63-Eu-143



63-Eu-143

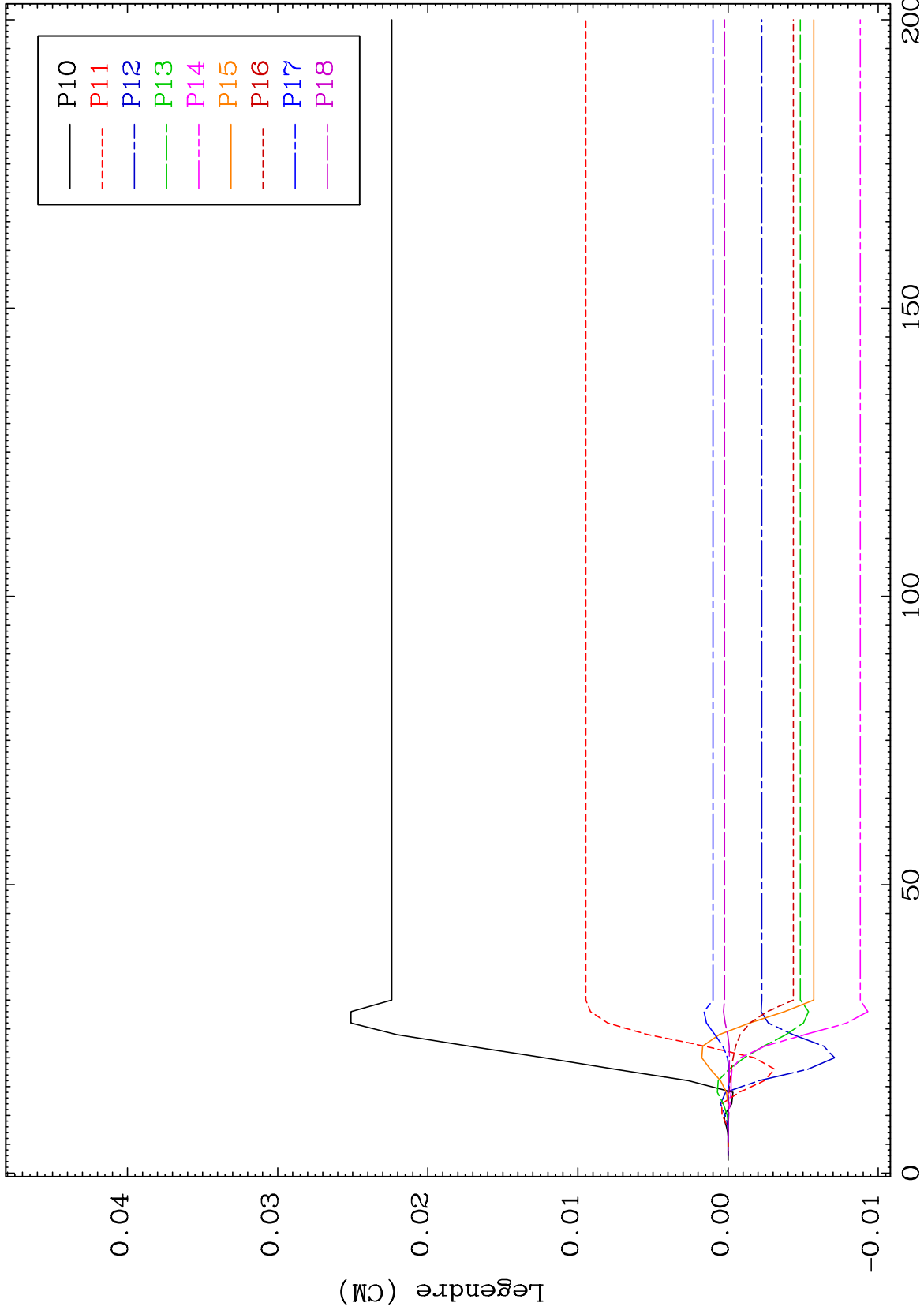
Incident Energy (MeV)

71

MAT 6301

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

63-Eu-143



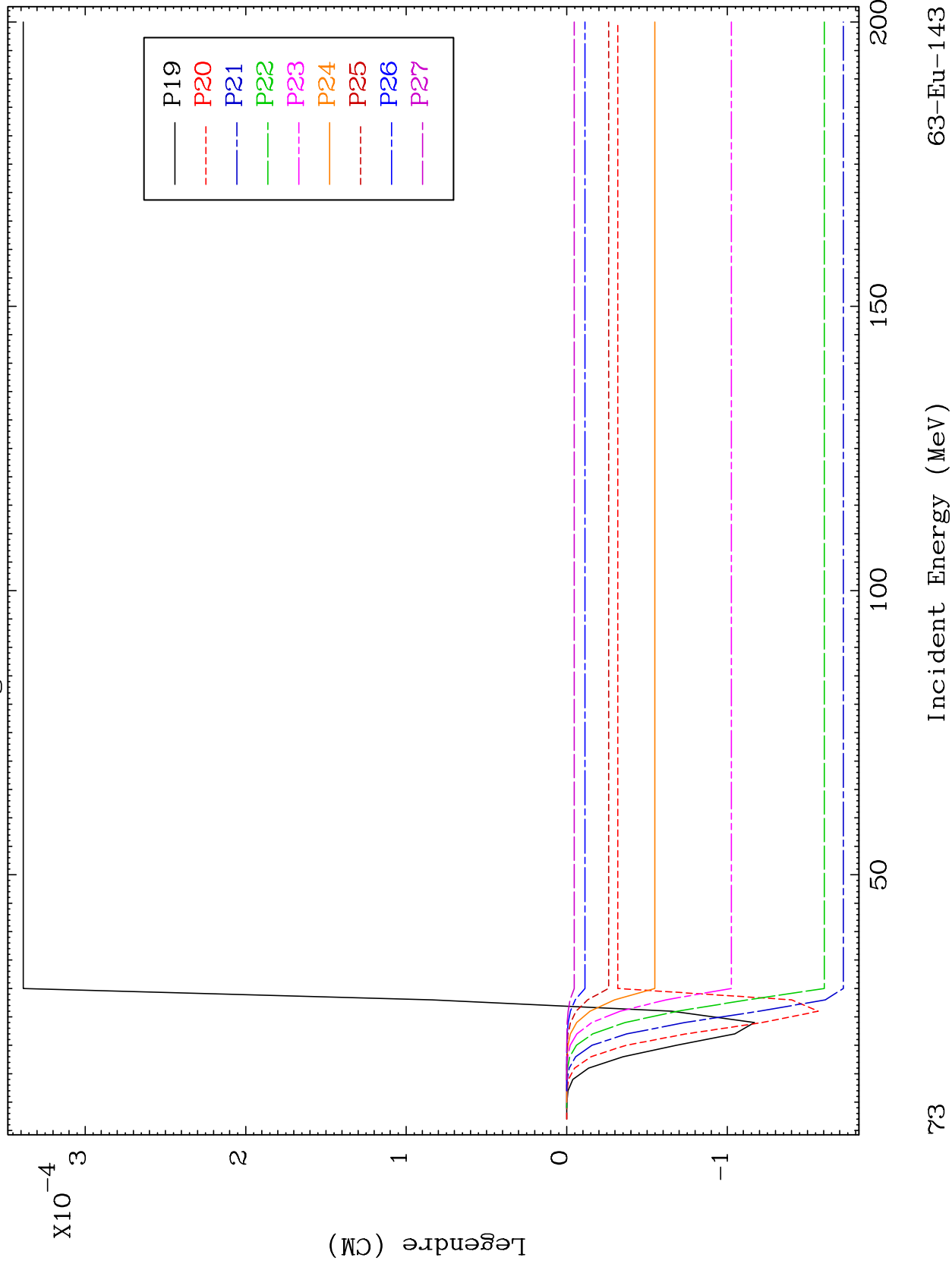
72

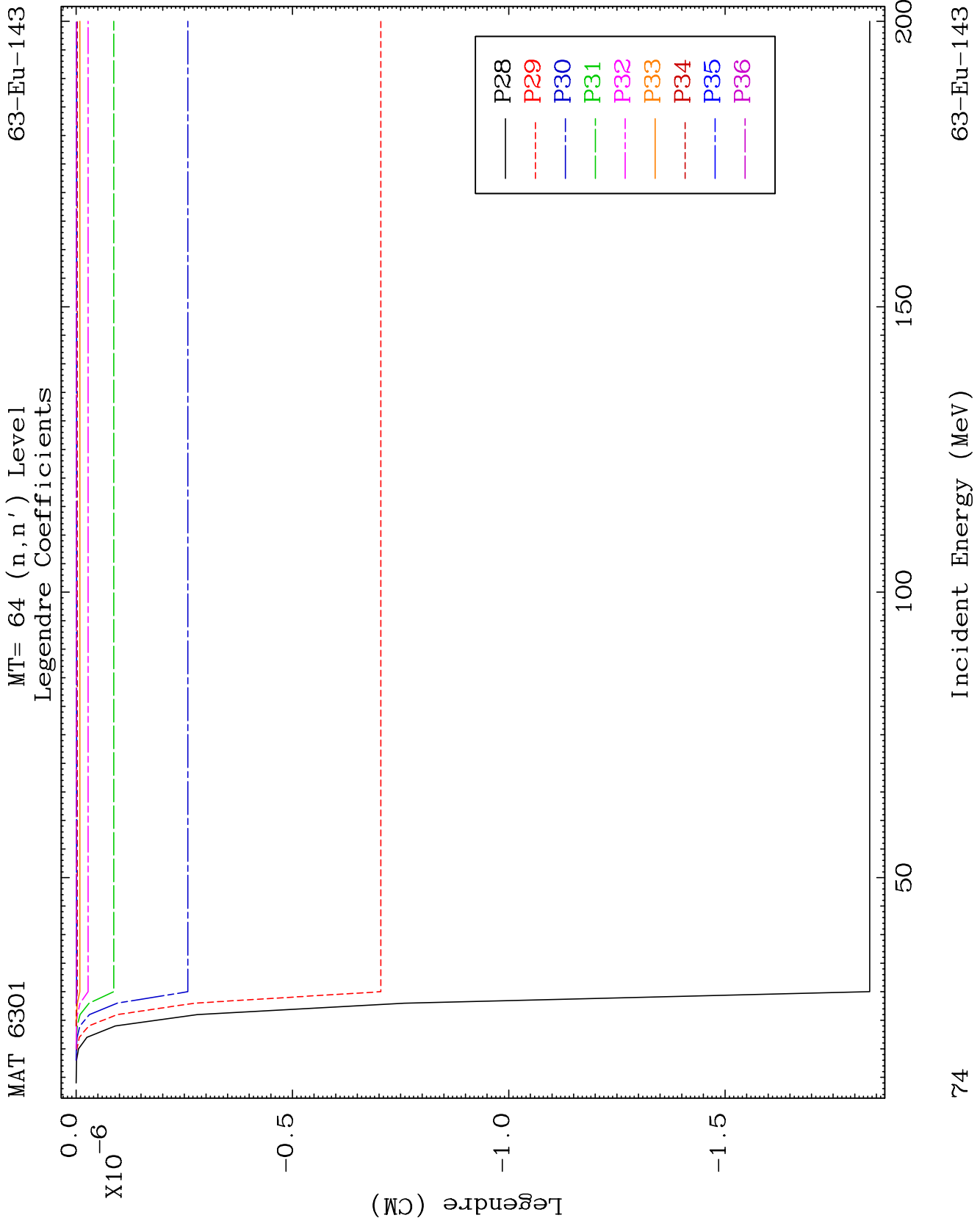
63-Eu-143

MAT 6301

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

63-Eu-143

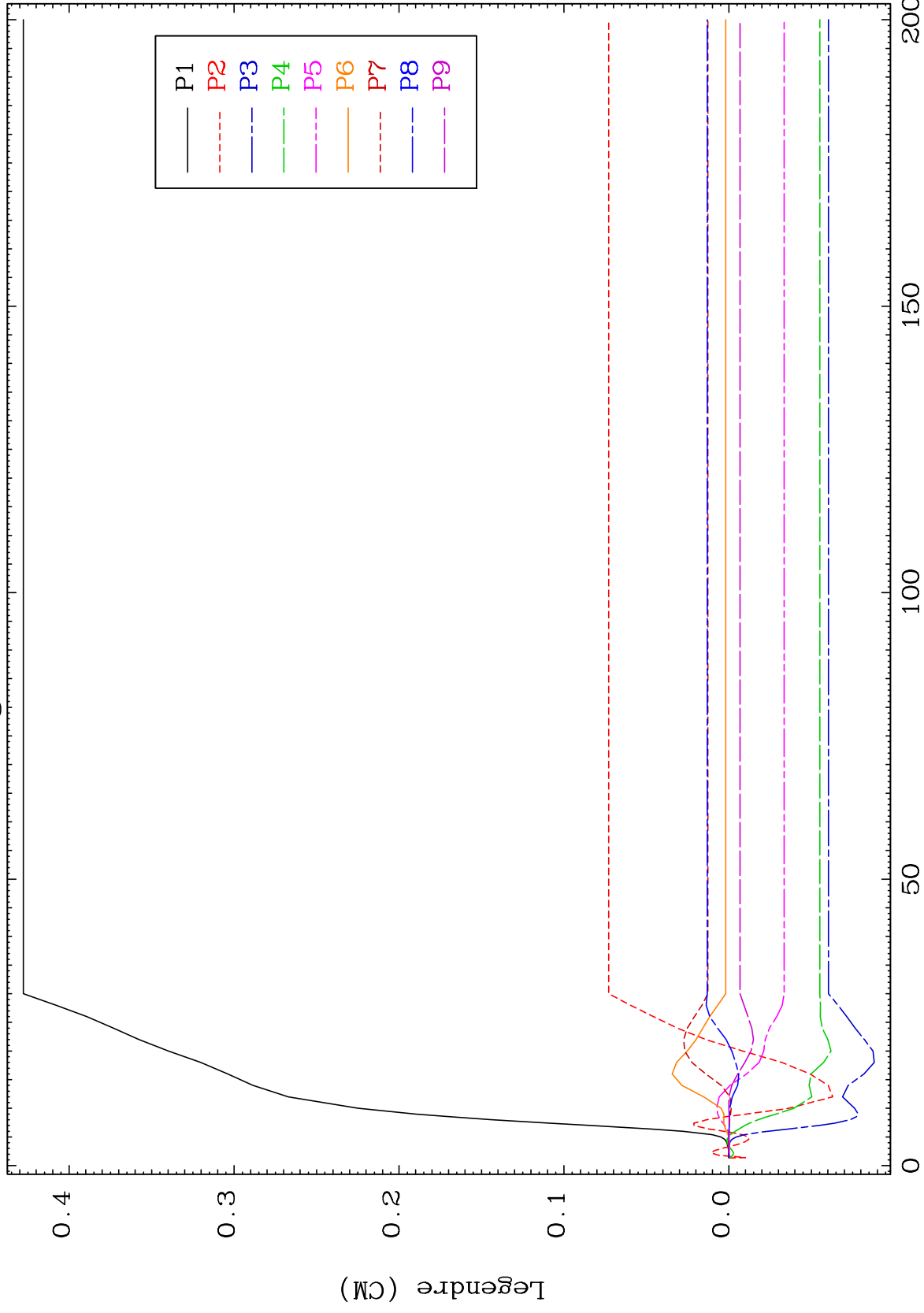




MAT 6301

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

63-Eu-143



75

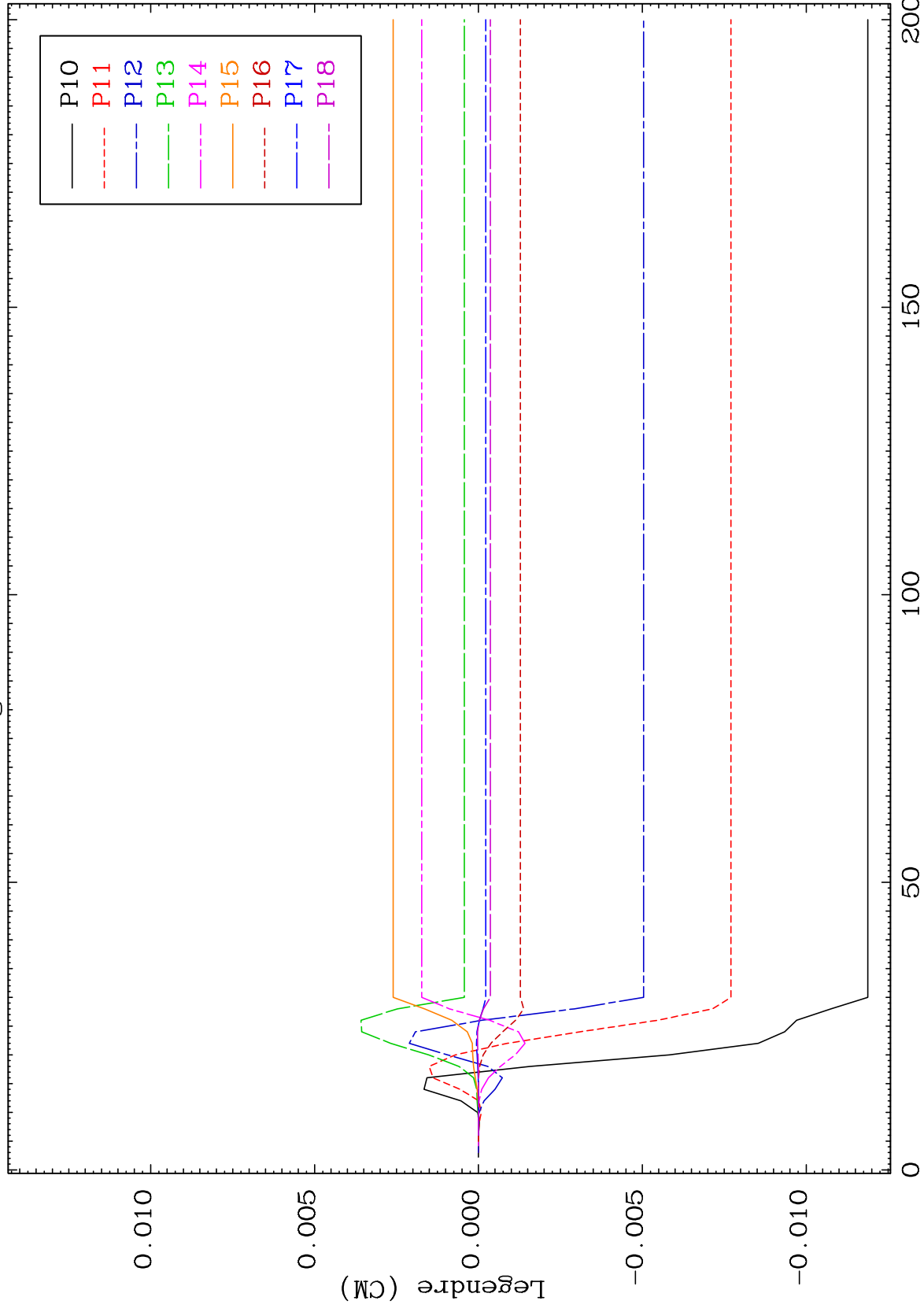
Incident Energy (MeV)

63-Eu-143

MAT 6301

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

63-Eu-143



76

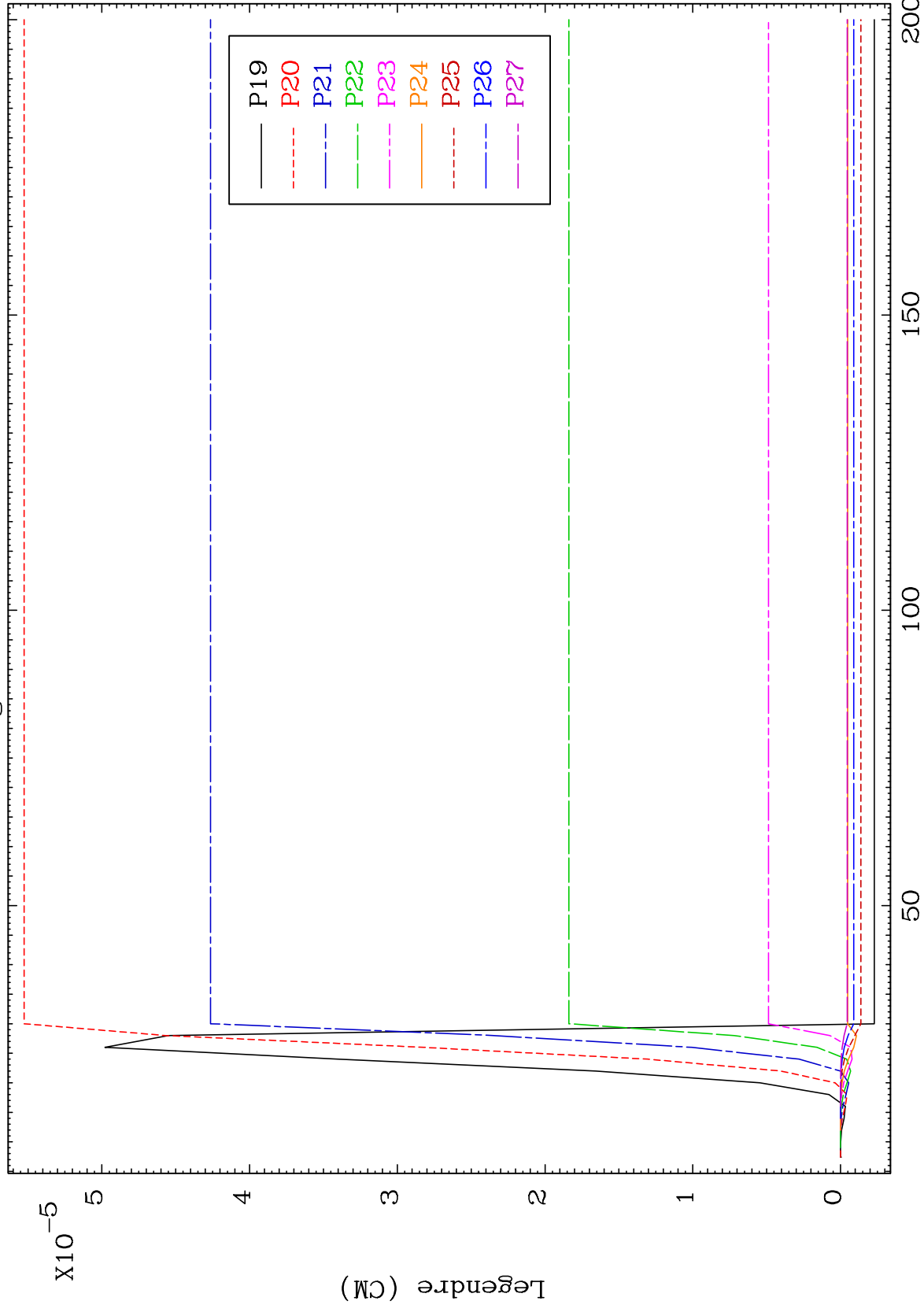
Incident Energy (MeV)

63-Eu-143

MAT 6301

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

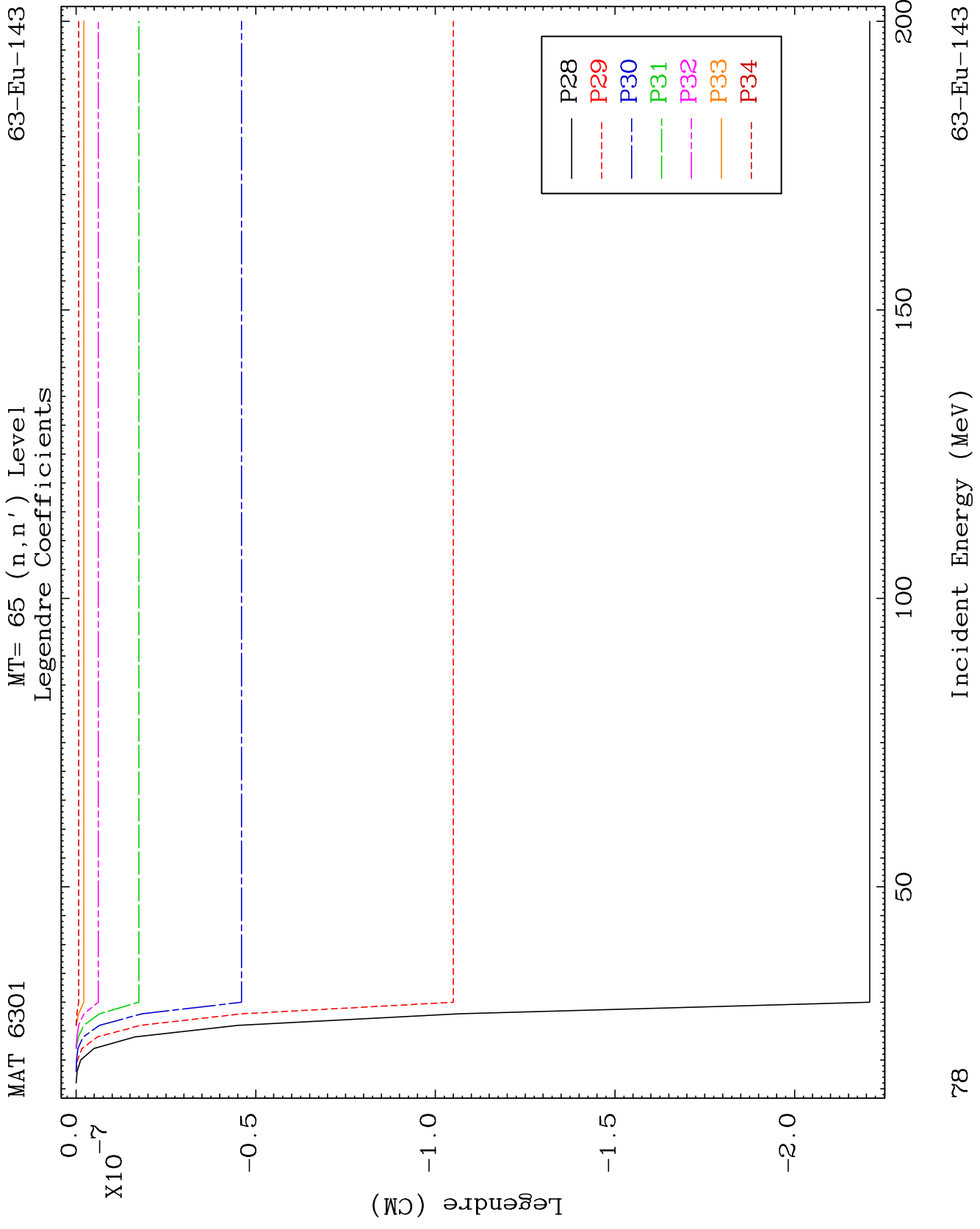
63-Eu-143



77

Incident Energy (MeV)

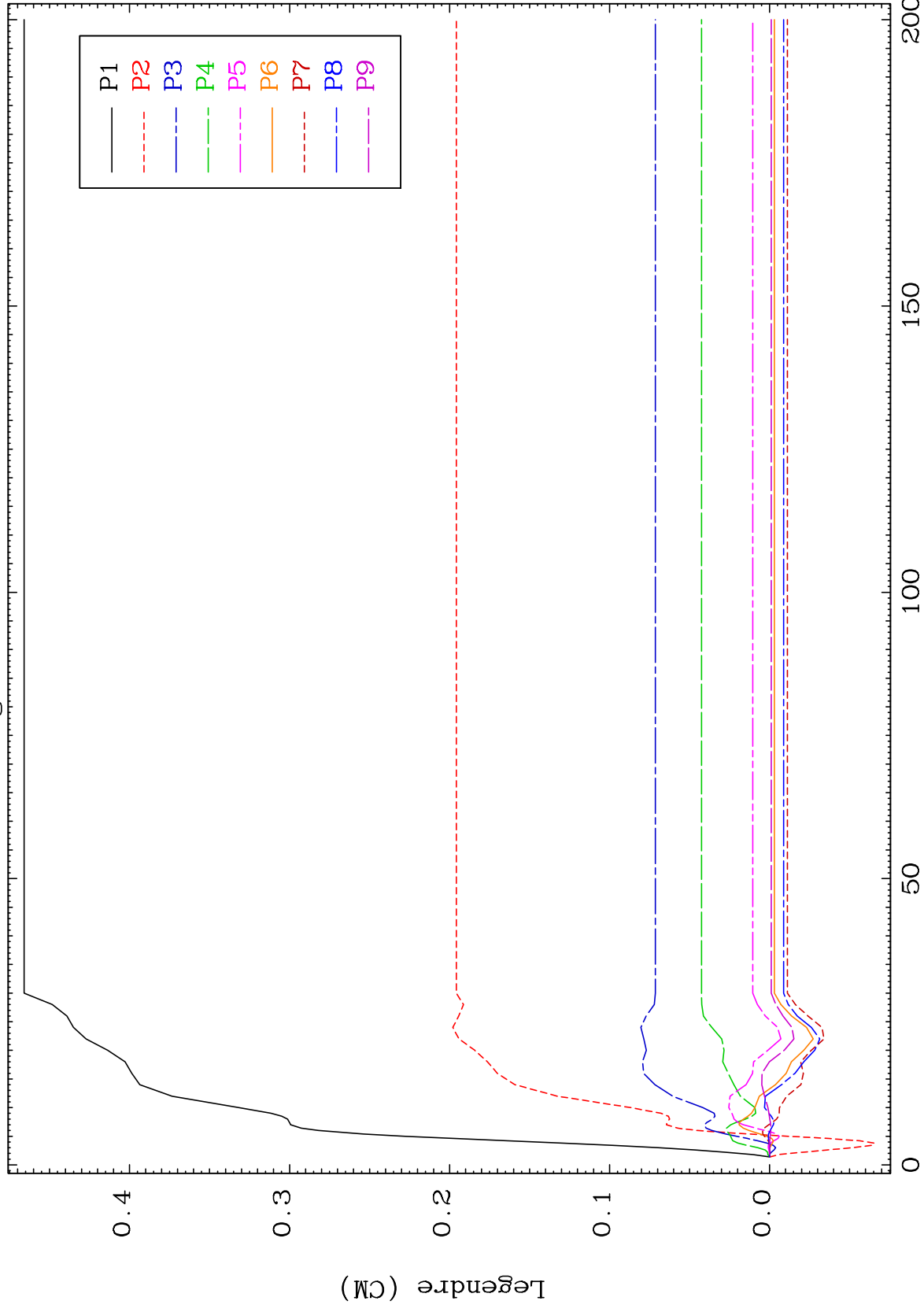
63-Eu-143



MAT 6301

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

63-Eu-143



79

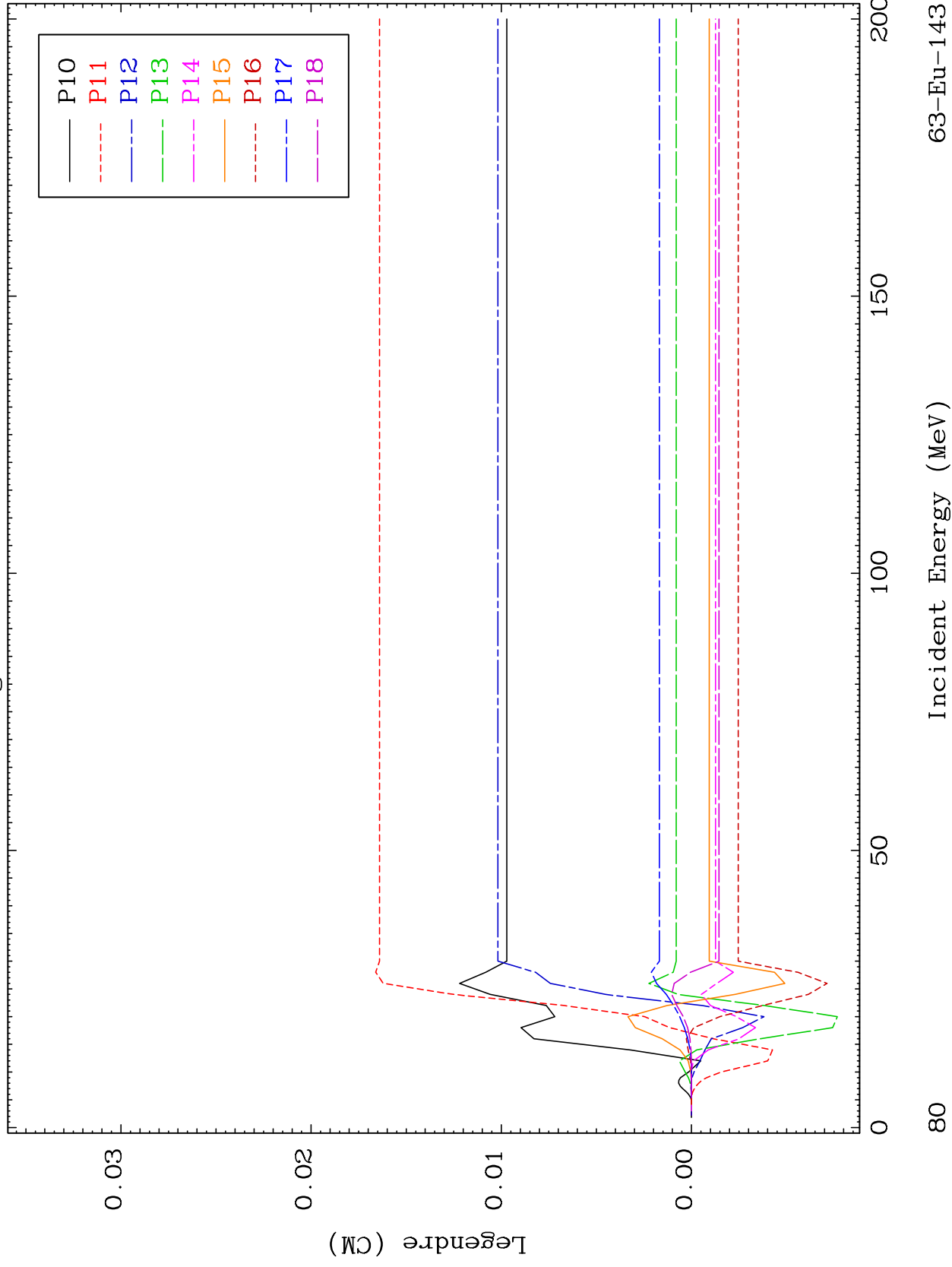
Incident Energy (MeV)

63-Eu-143

MAT 6301

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

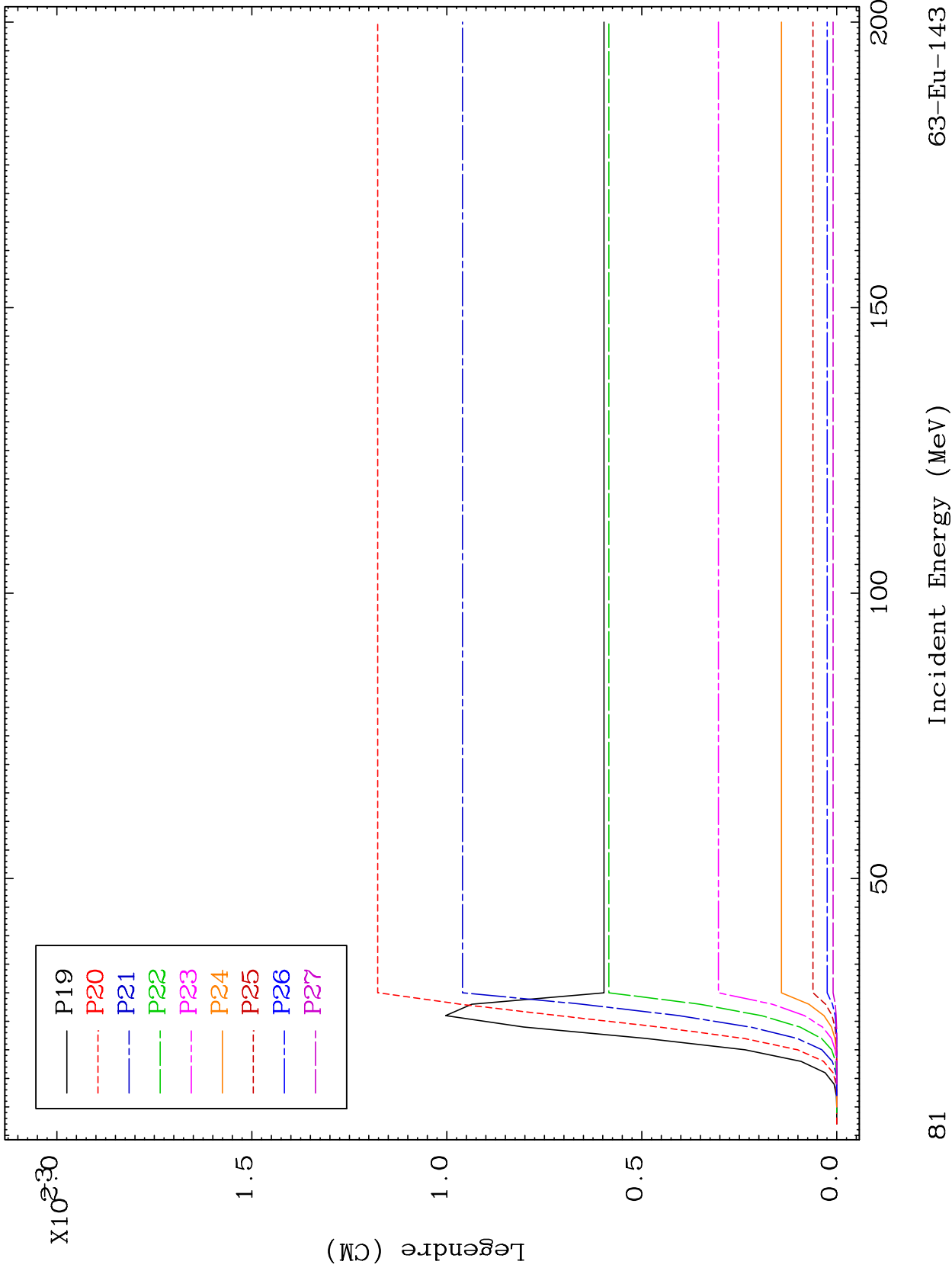
63-Eu-143



63-Eu-143

Incident Energy (MeV)

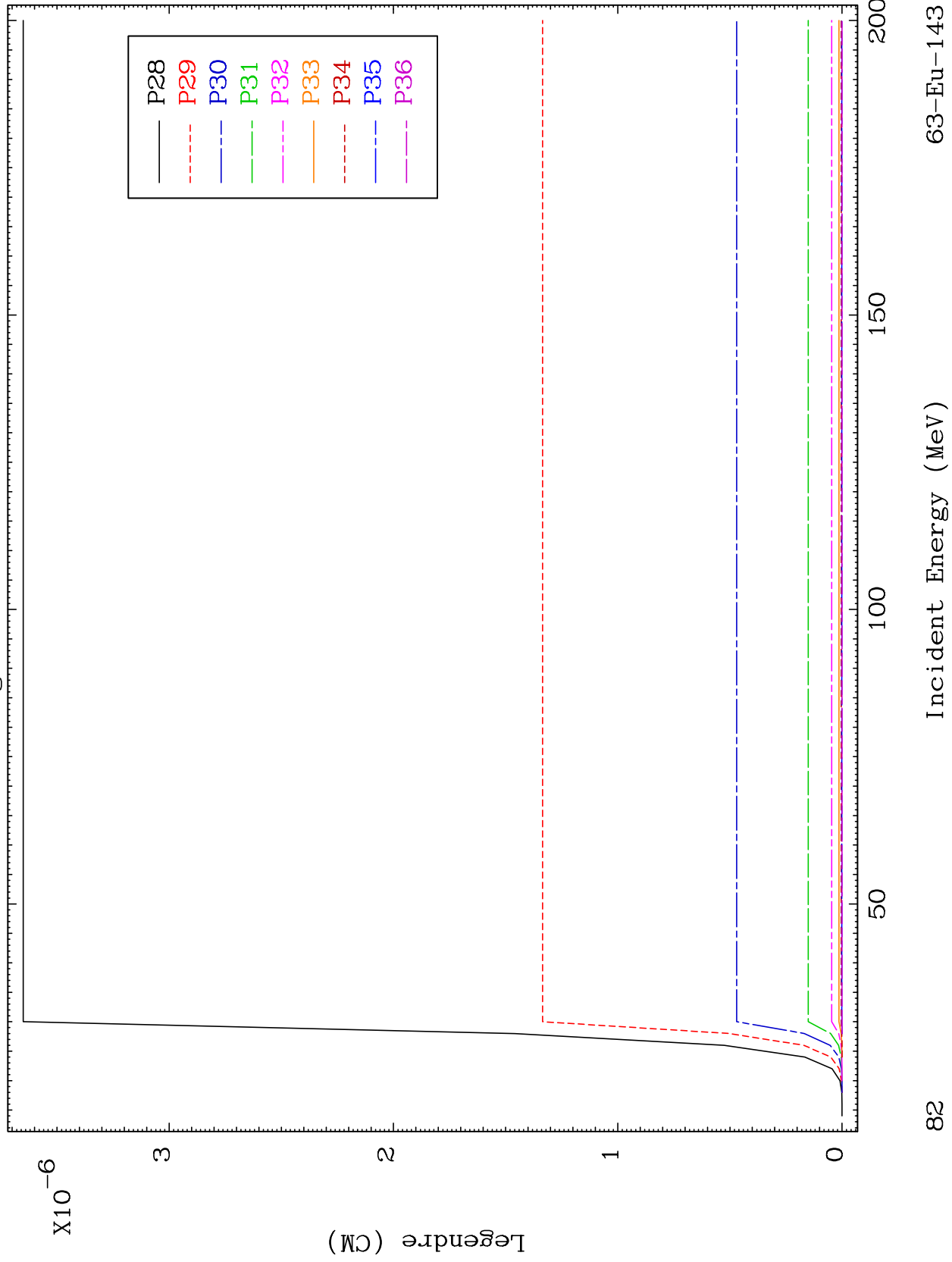
80



MAT 6301

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

63-Eu-143



82

Incident Energy (MeV)

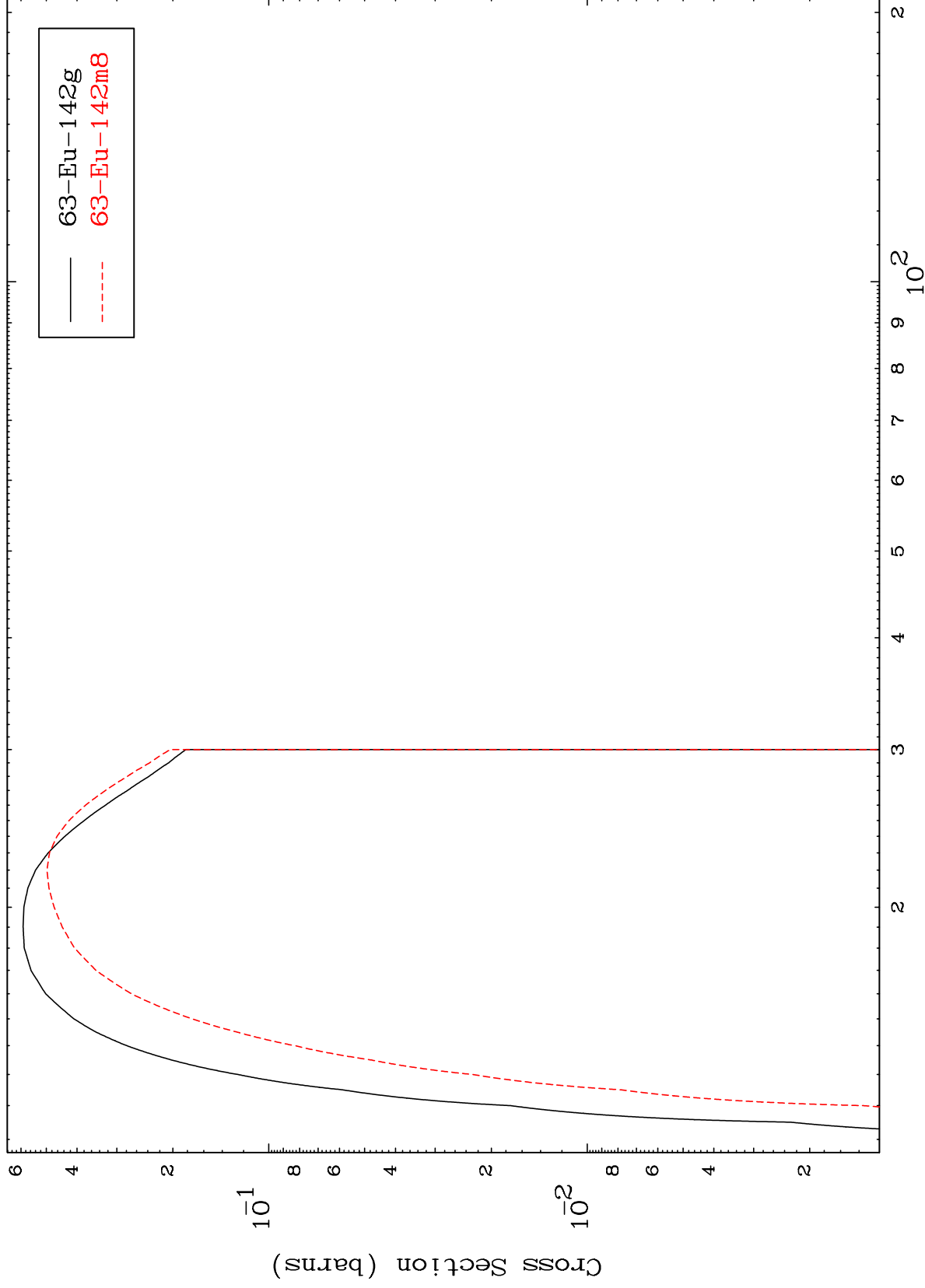
63-Eu-143

MAT 6301

(n,2n)

63-Eu-143

Radionuclide Production Cross Section



83

Incident Energy (MeV)

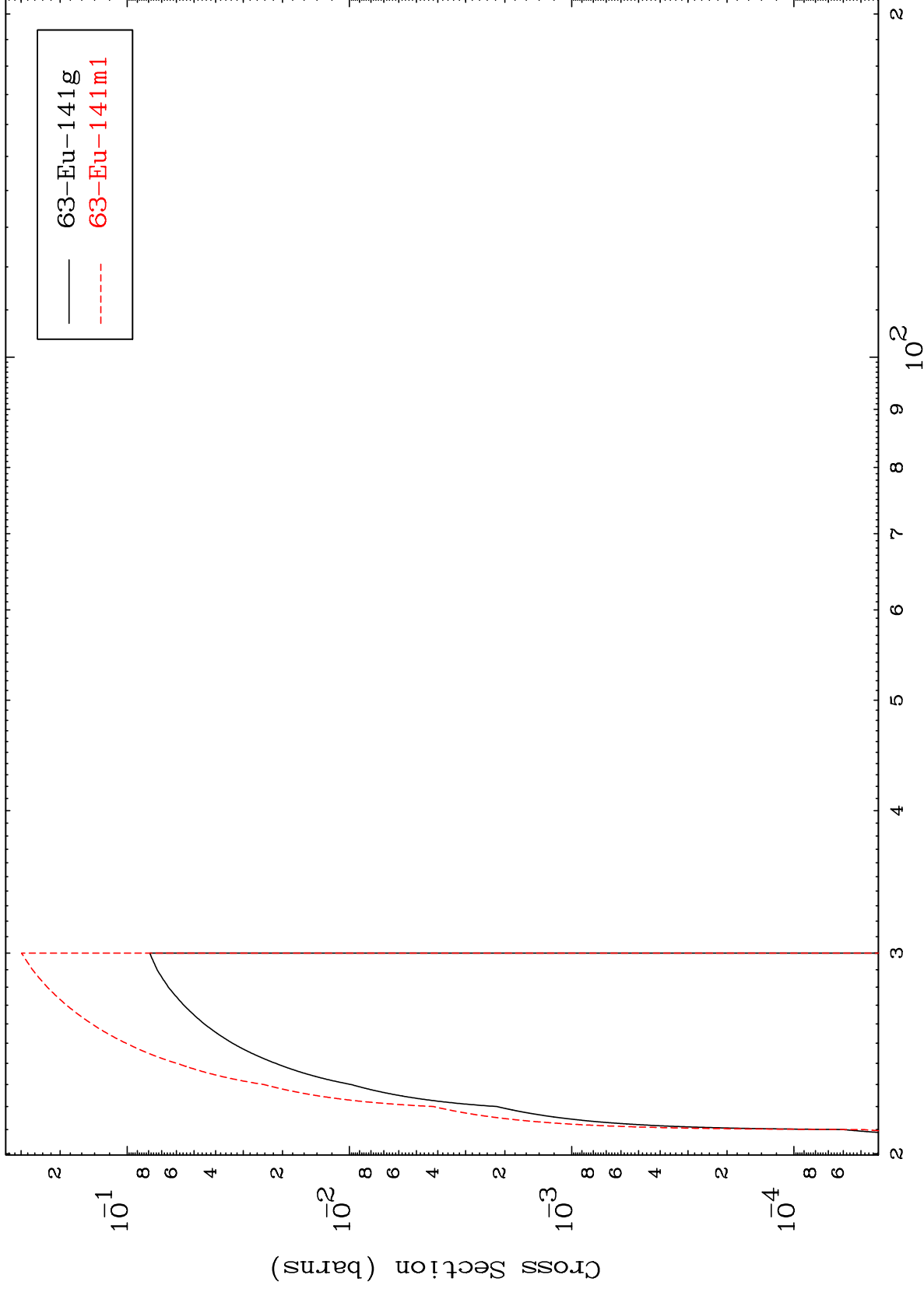
63-Eu-143

MAT 6301

(n,3n)

63-Eu-143

Radionuclide Production Cross Section



84

Incident Energy (MeV)

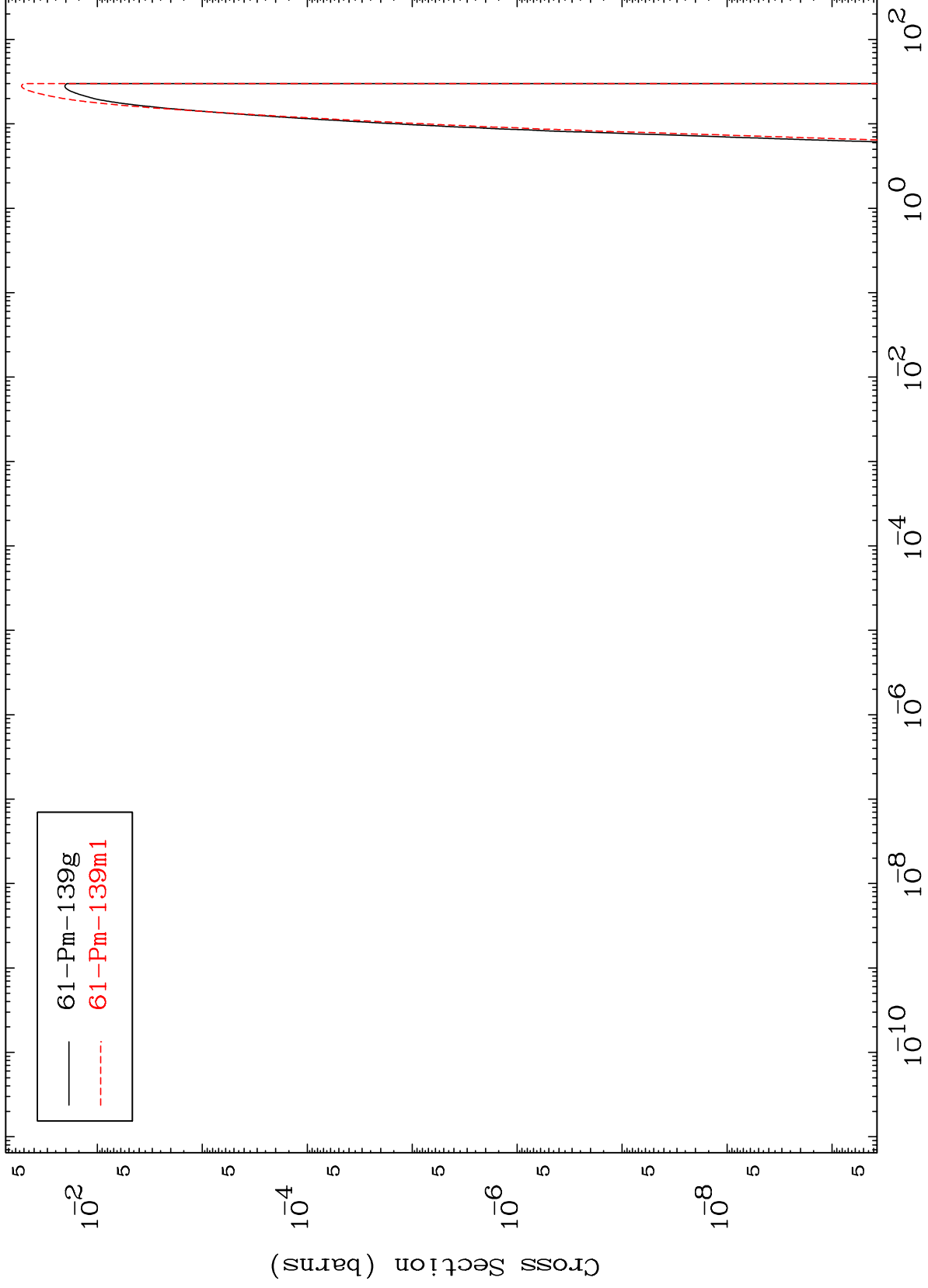
63-Eu-143

MAT 6301

$(n, n') \alpha$

63-Eu-143

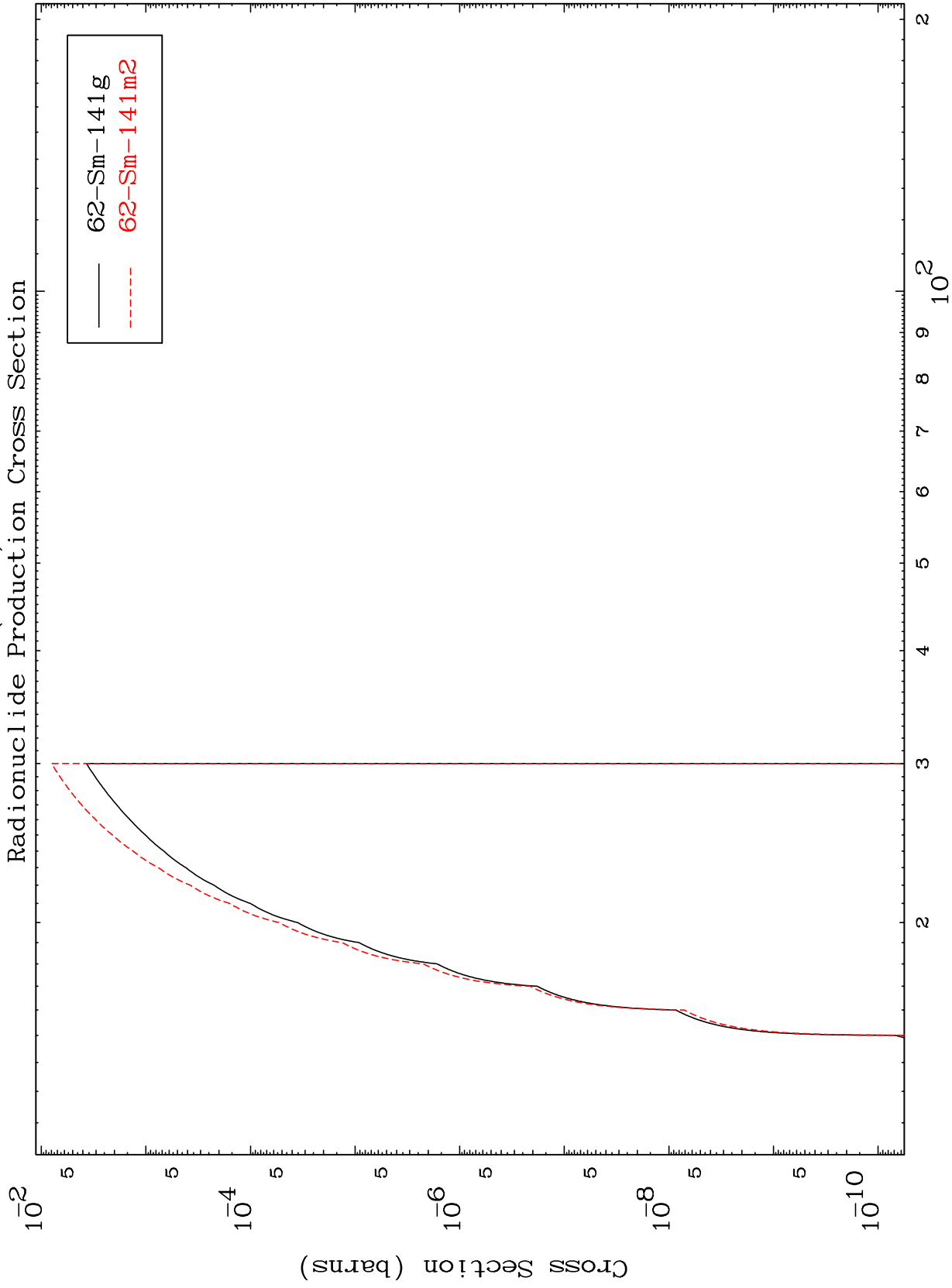
Radionuclide Production Cross Section



85

Incident Energy (MeV)

63-Eu-143

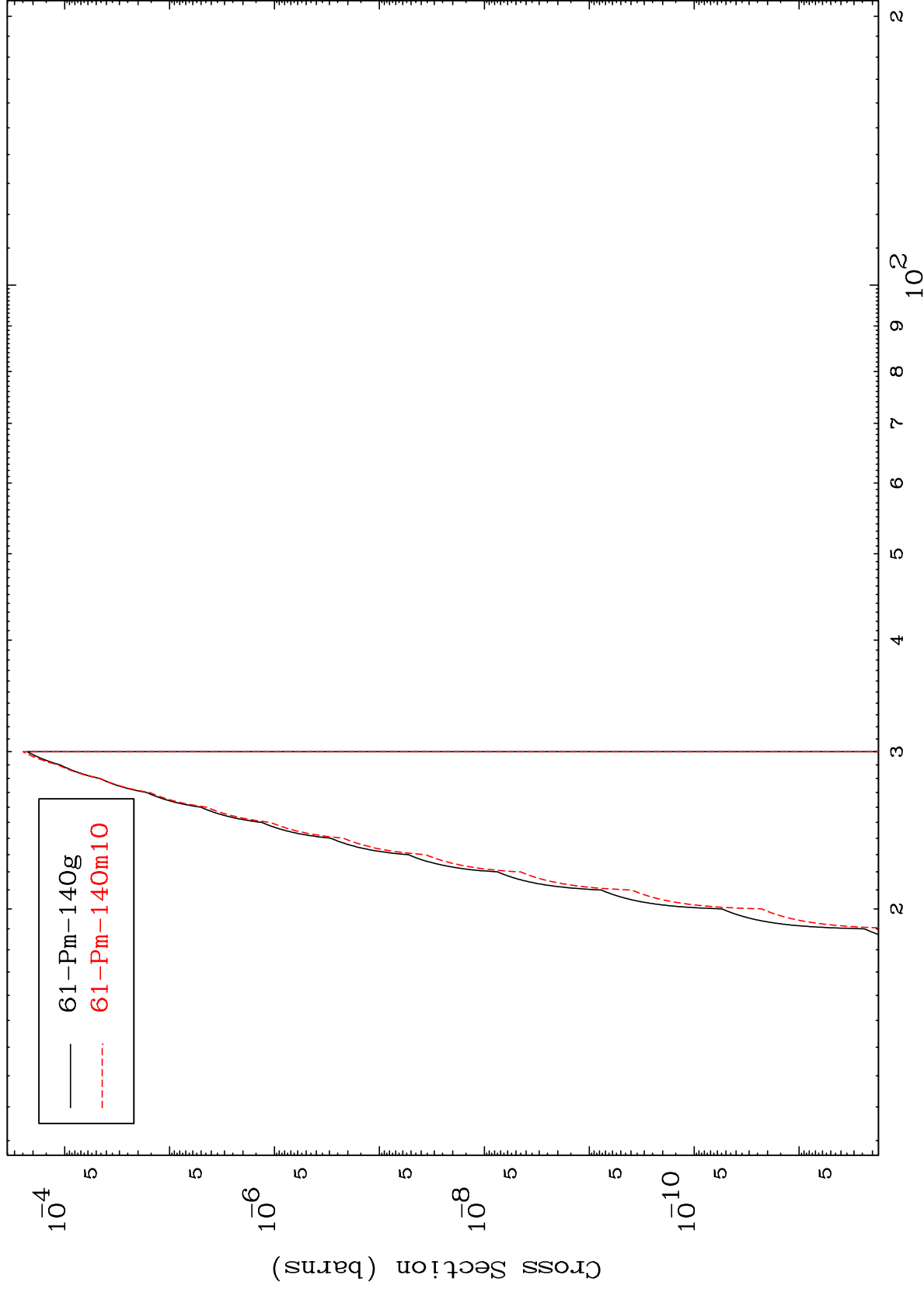


MAT 6301

(n,n') He-3

63-Eu-143

Radionuclide Production Cross Section

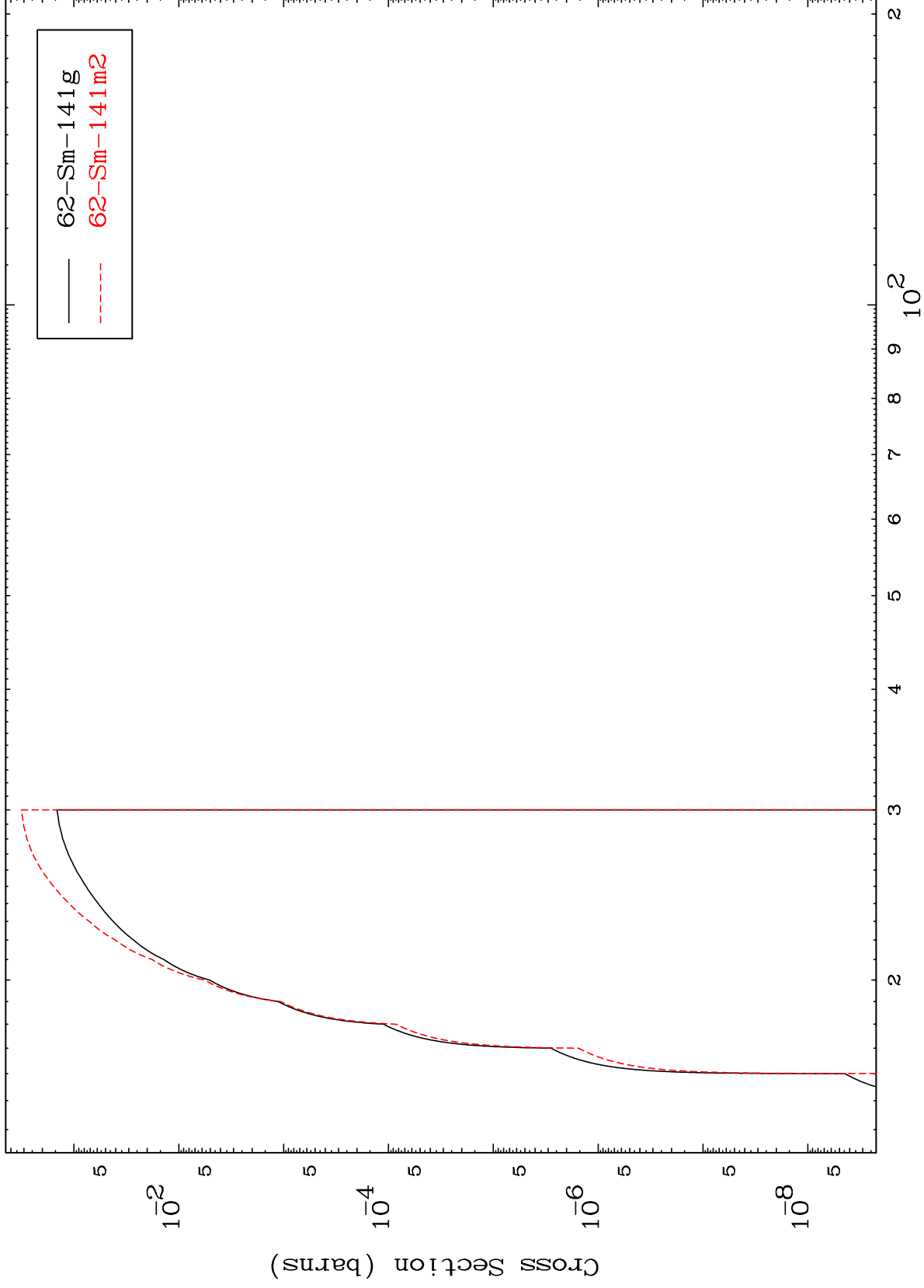


87

Incident Energy (MeV)

63-Eu-143

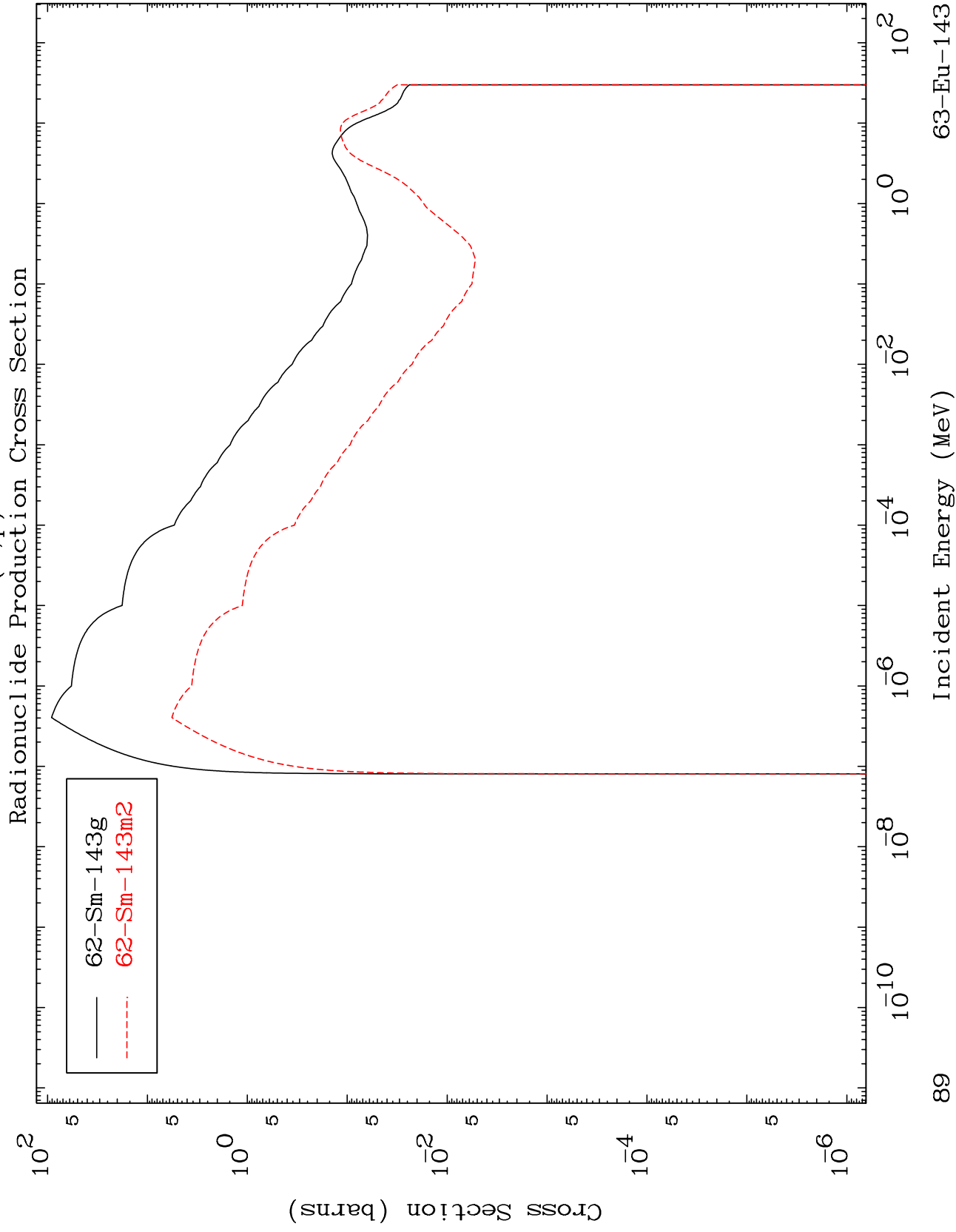
Radionuclide Production Cross Section



MAT 6301

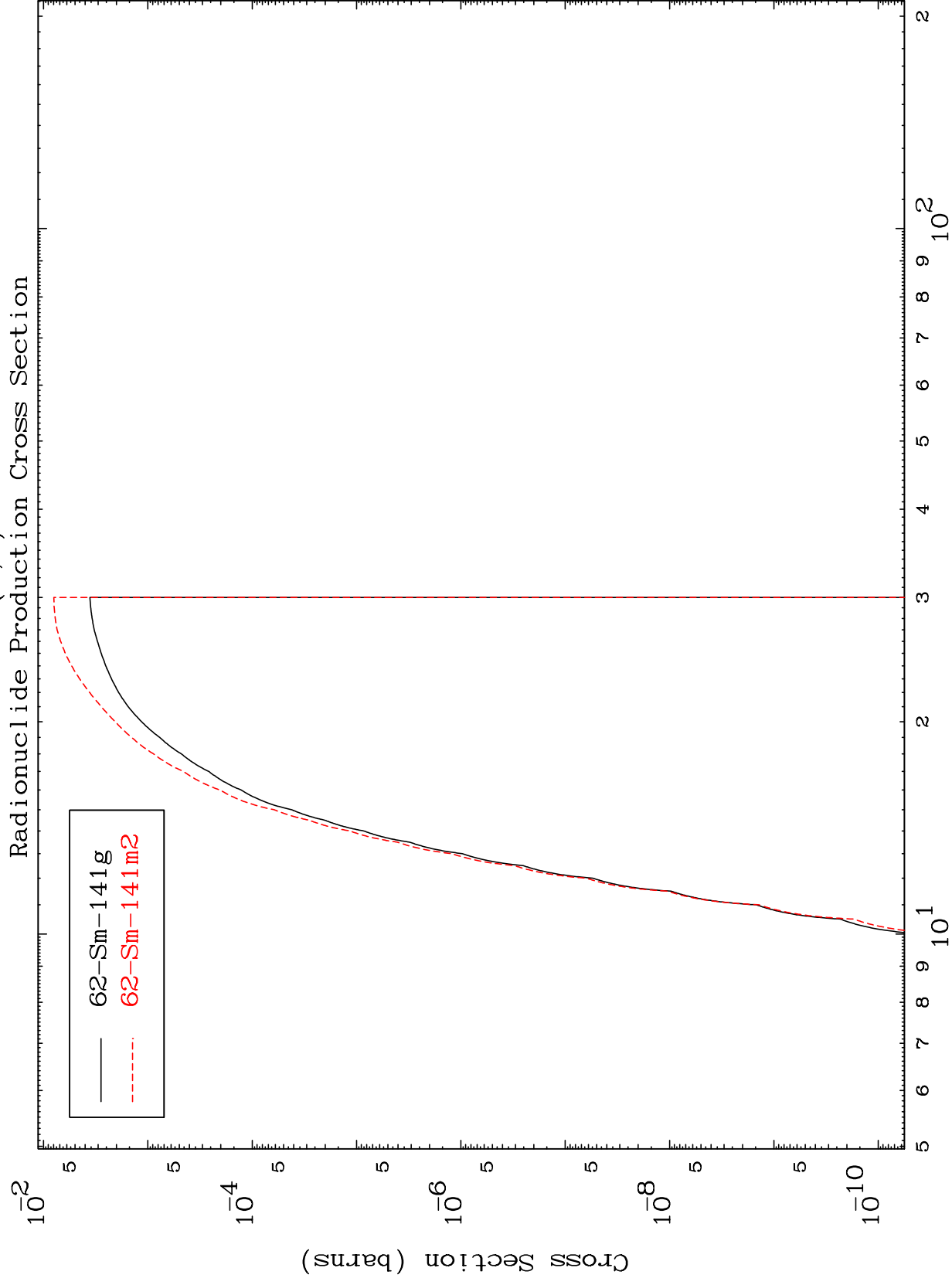
63-Eu-143

Radionuclide Production Cross Section



MAT 6301

63-Eu-143



— 62-Sm-141g  
- - - 62-Sm-141m2

90

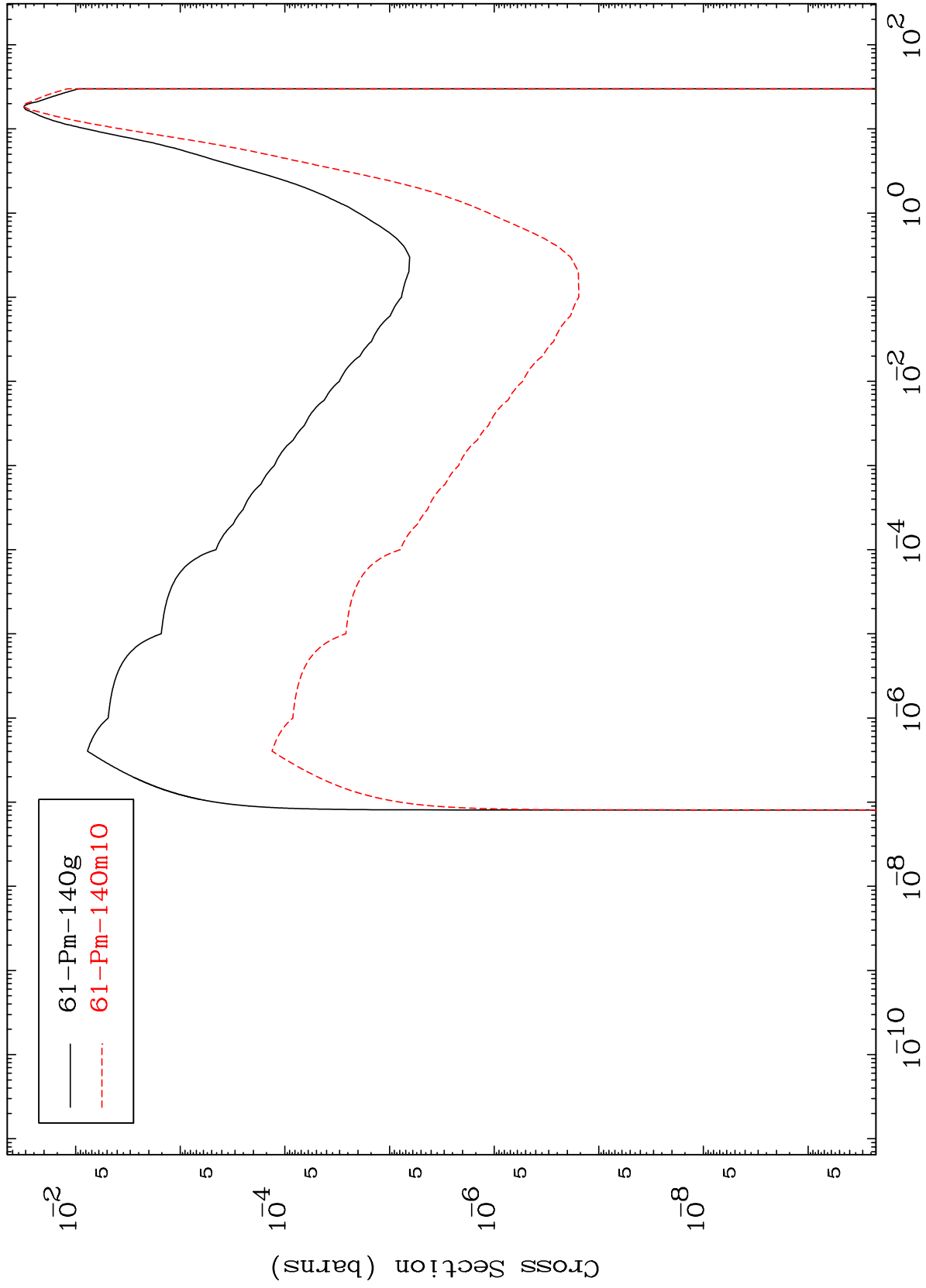
Incident Energy (MeV)

63-Eu-143

MAT 6301

63-Eu-143

(n,  $\alpha$ )  
Radionuclide Production Cross Section



91

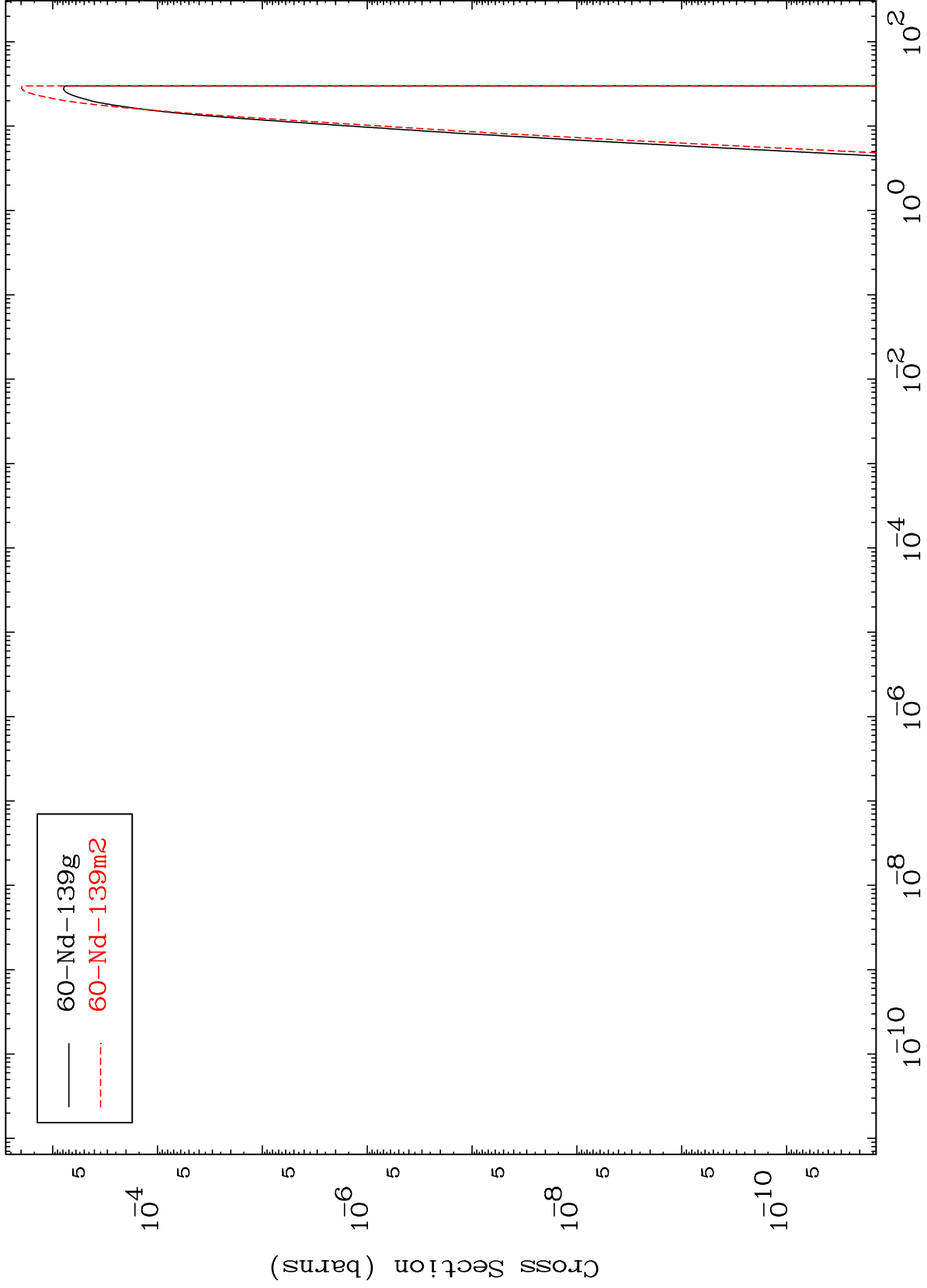
63-Eu-143

MAT 6301

(n,p)  $\alpha$

<sup>63</sup>Eu-143

Radionuclide Production Cross Section

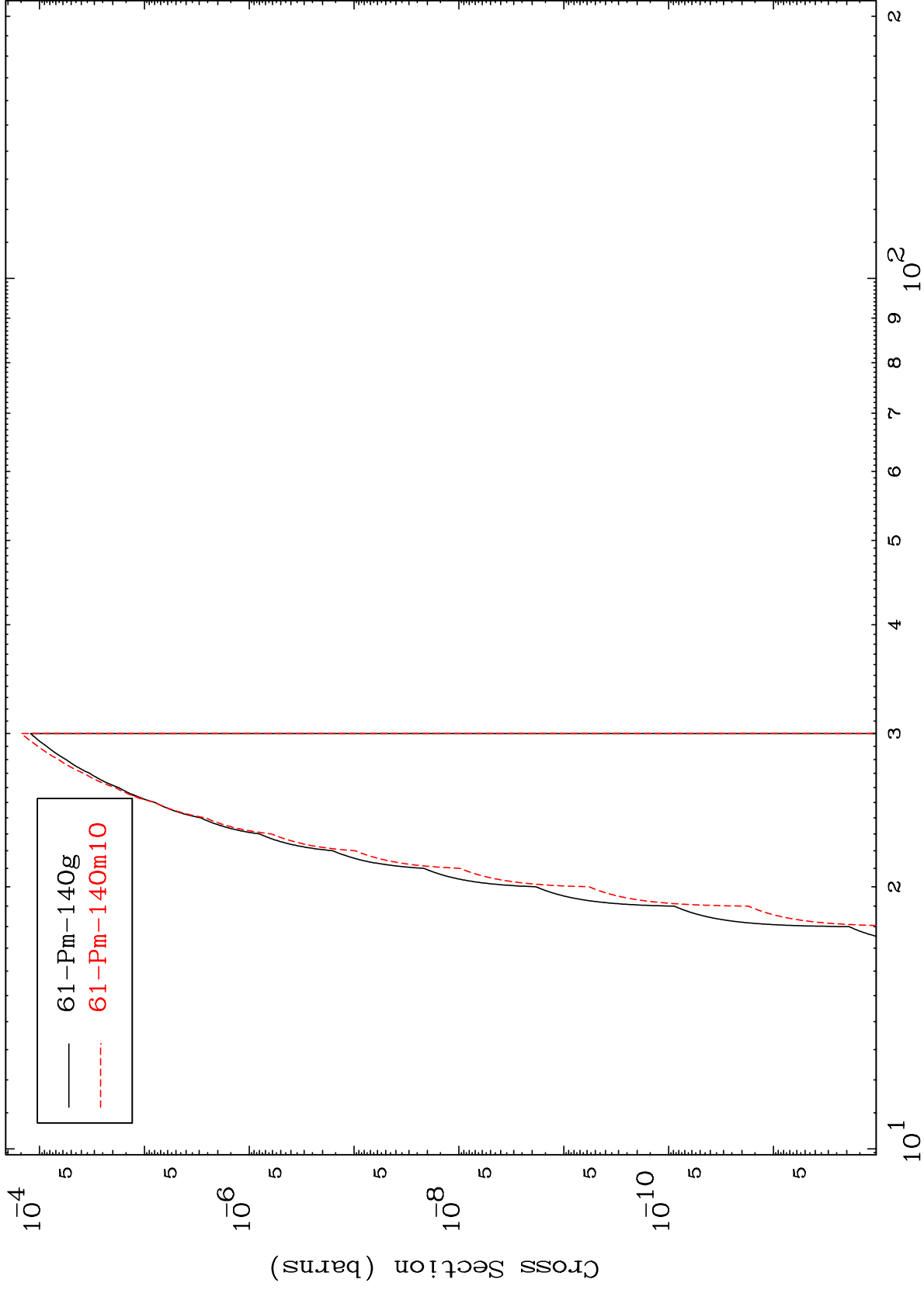


MAT 6301

(n,p) t

63-Eu-143

Radionuclide Production Cross Section



93

Incident Energy (MeV)

63-Eu-143