

Program EVALPLOT
(Version 2017-1)

by

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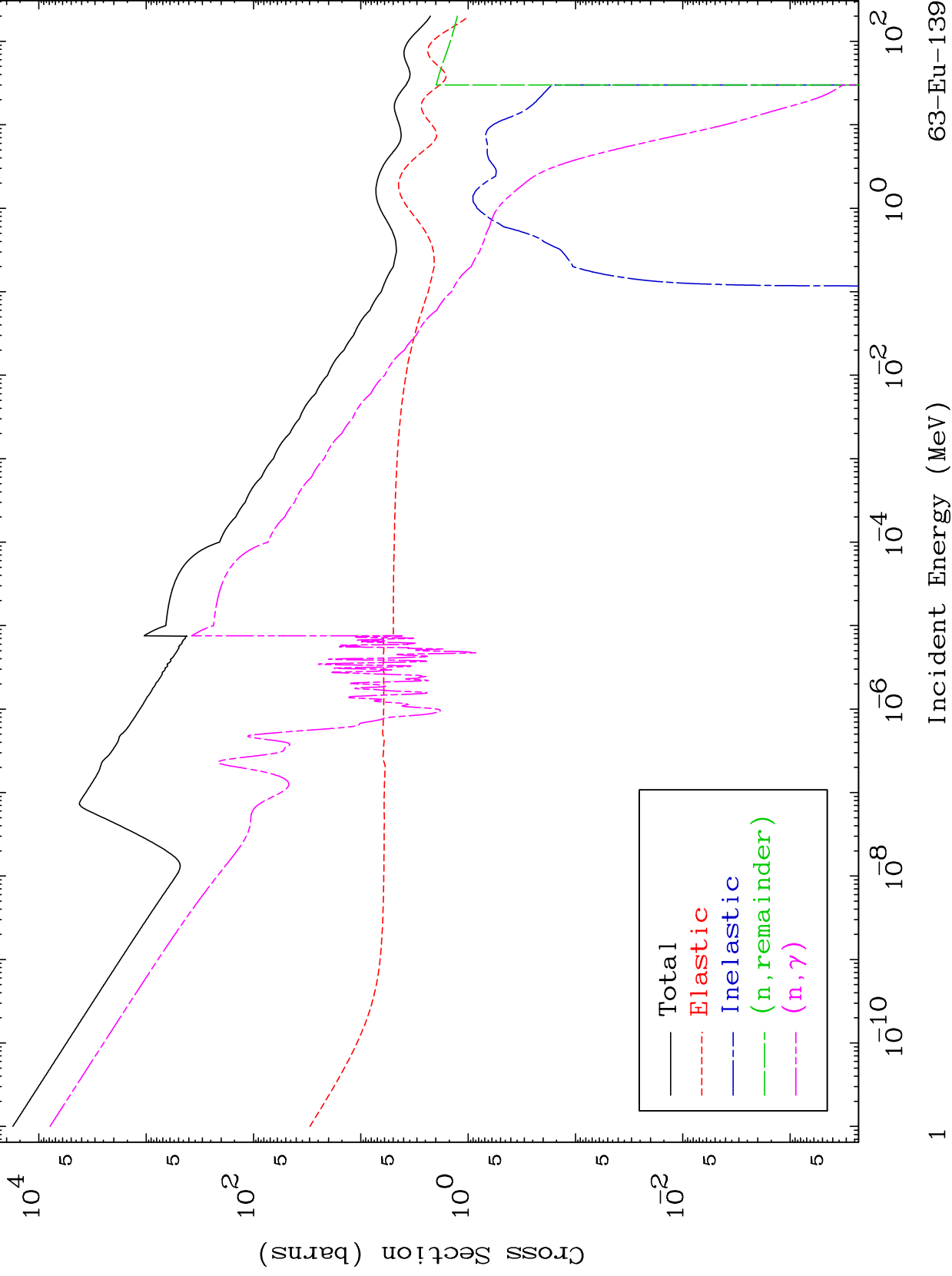
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Press Mouse Button to Start

MAT 6289

Major
293 Kelvin Cross Sections

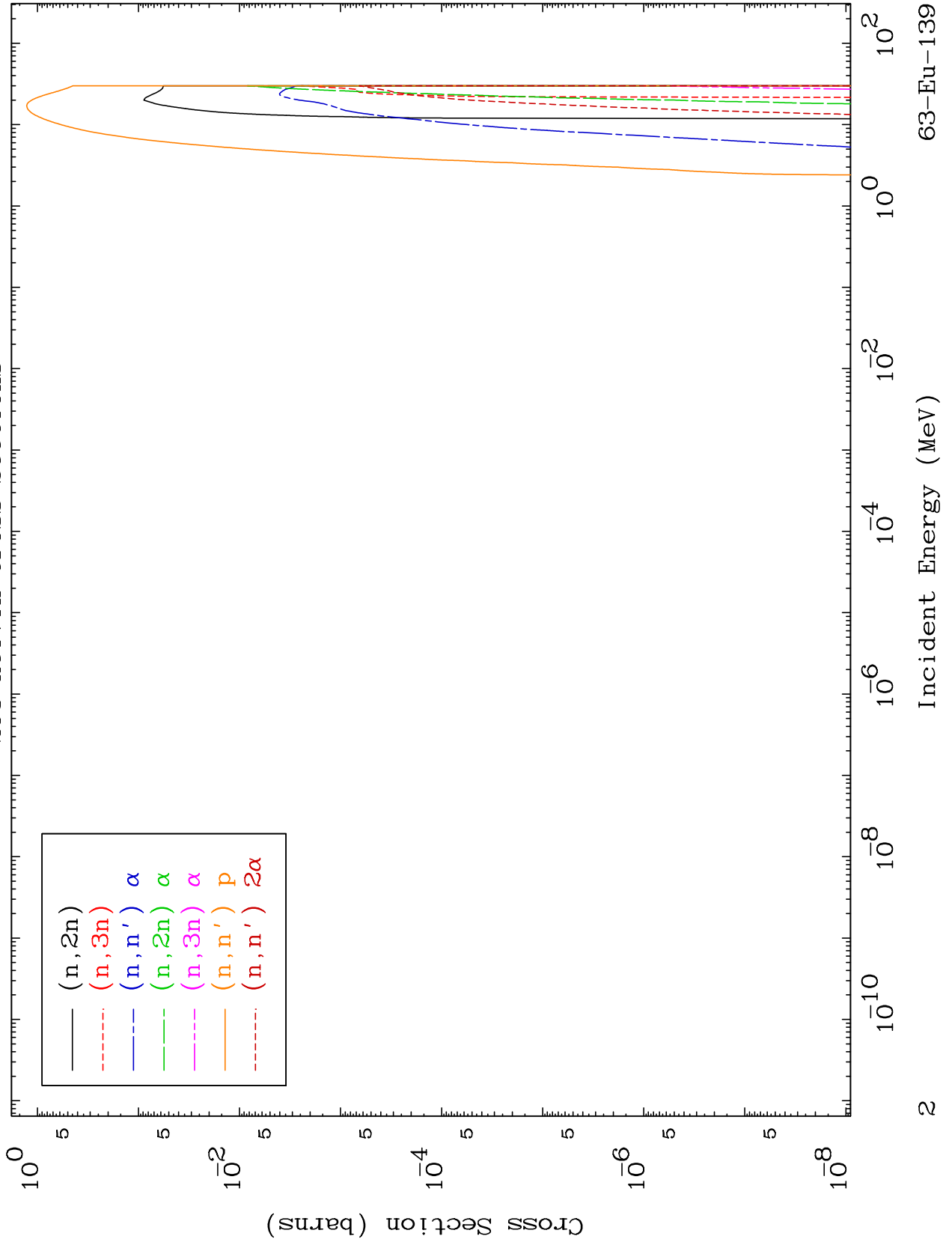
63-Eu-139

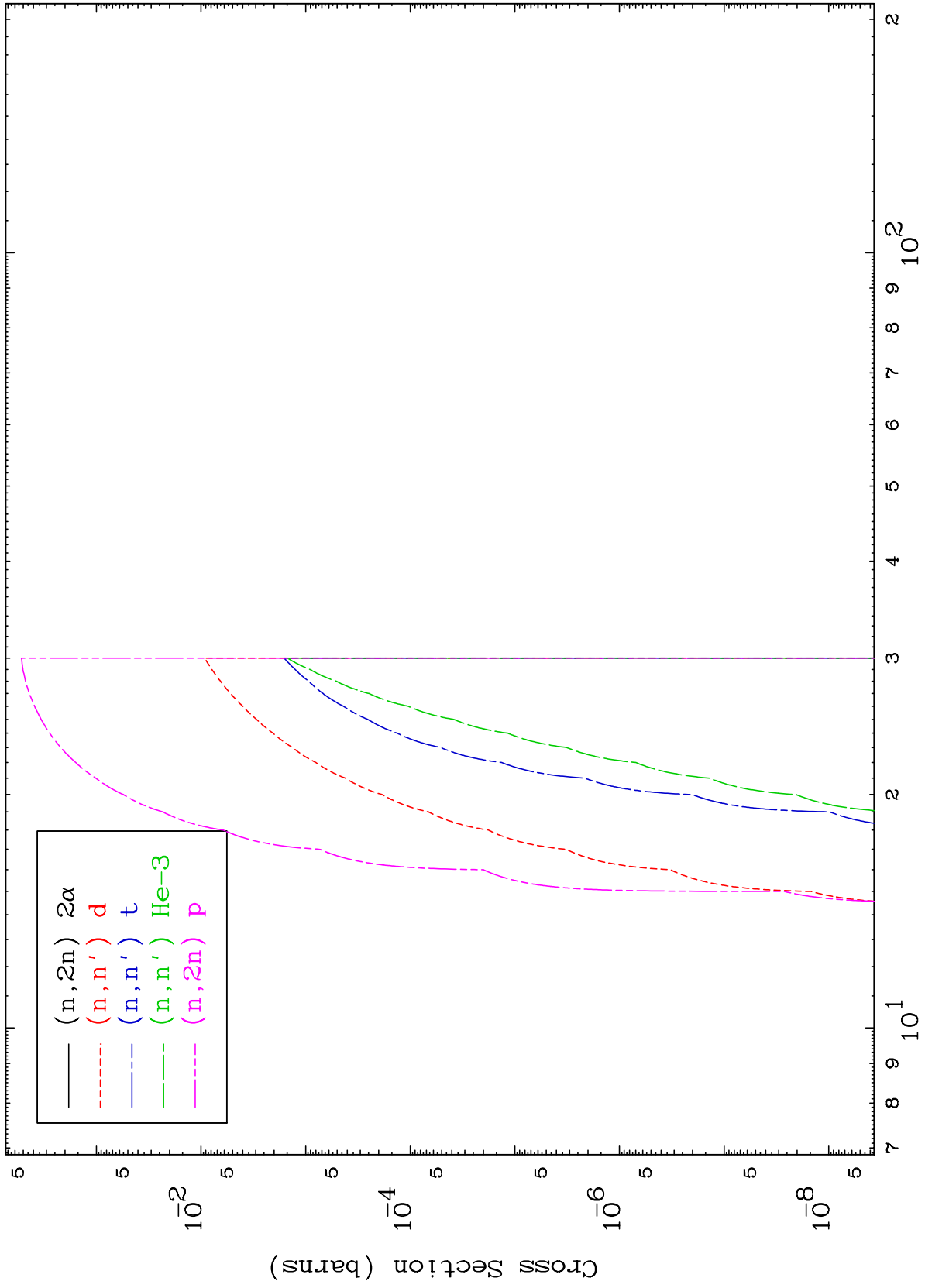


MAT 6289

Neutron Production
293 Kelvin Cross Sections

63-Eu-139

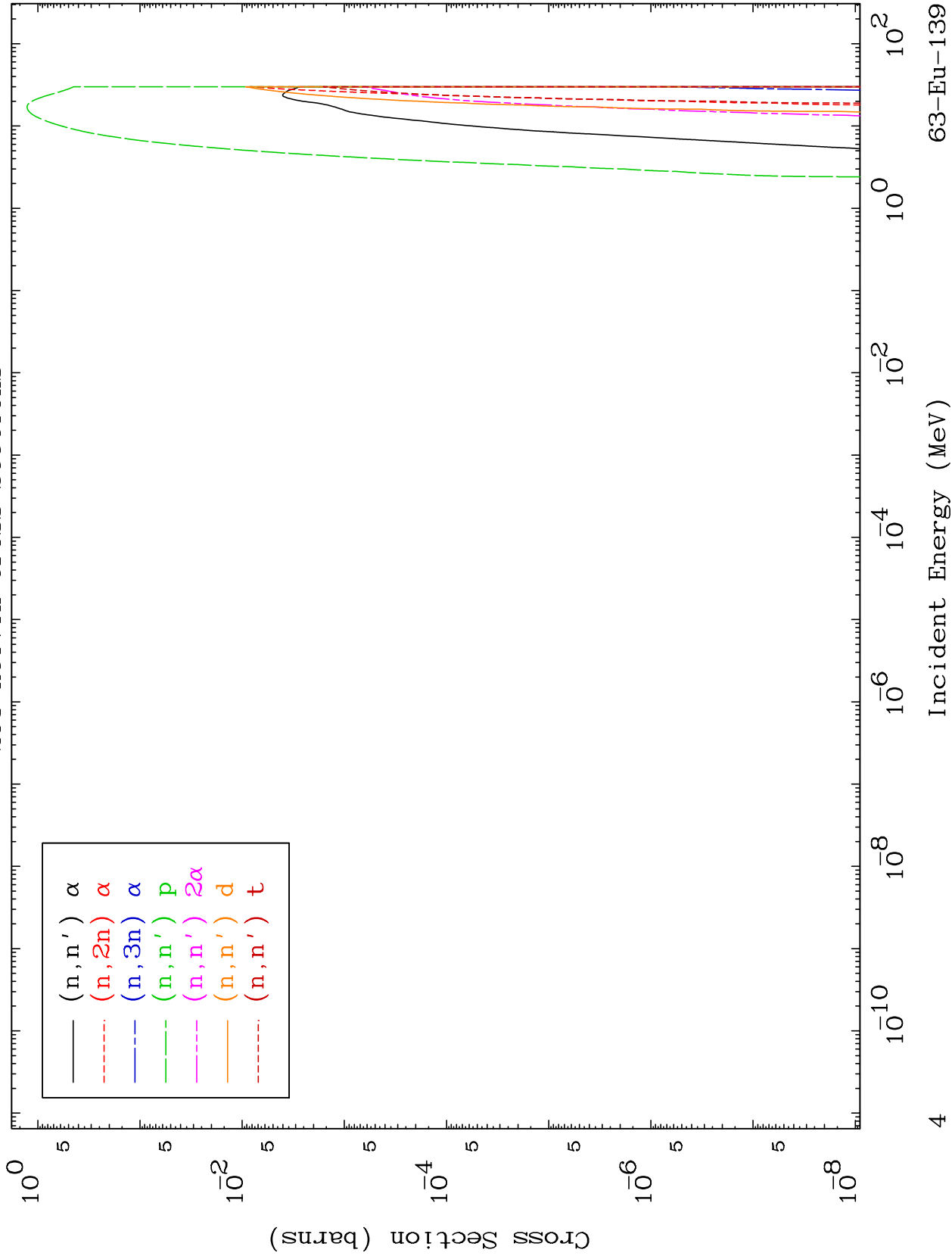




MAT 6289

Charged Particle
293 Kelvin Cross Sections

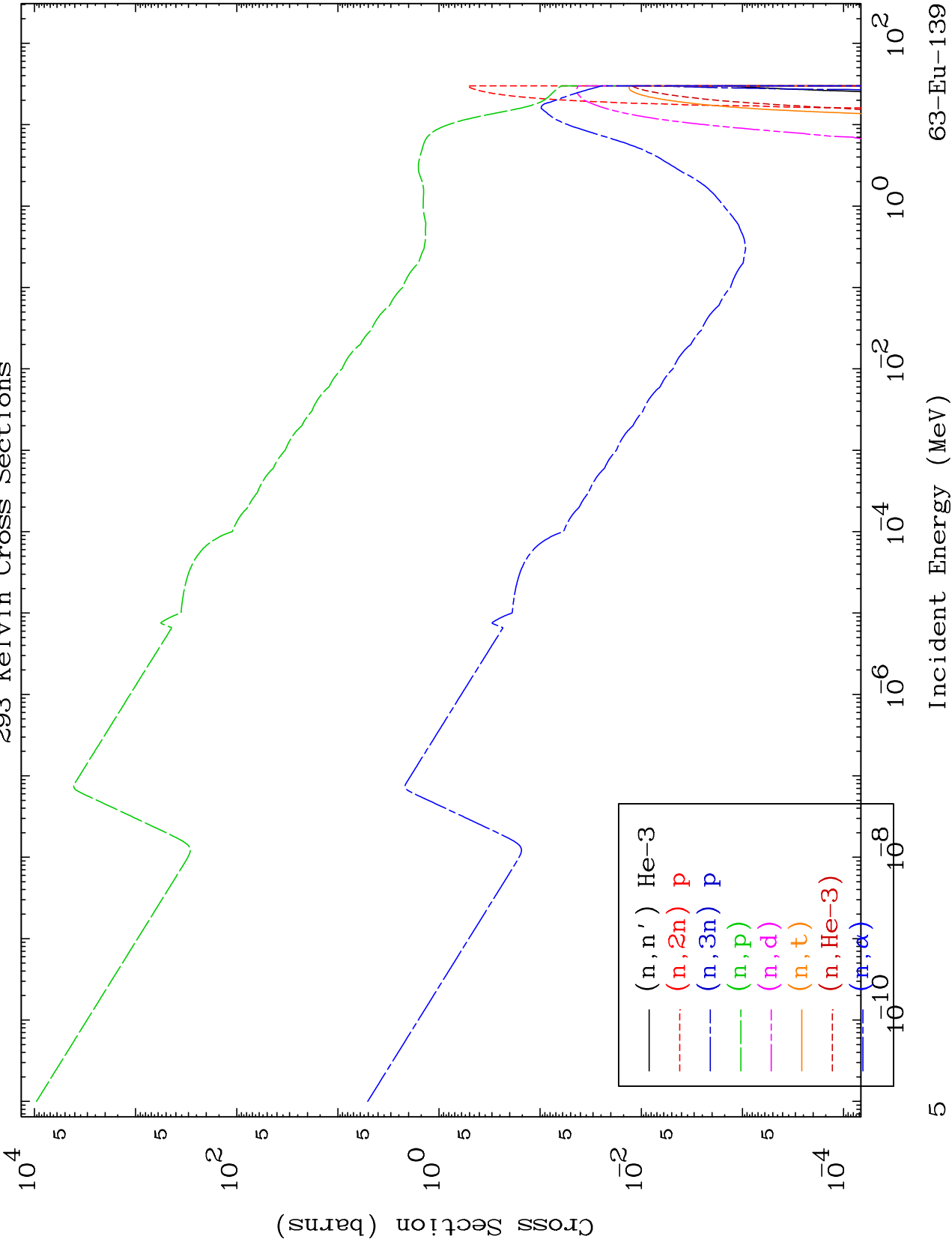
63-Eu-139



MAT 6289

Charged Particle
293 Kelvin Cross Sections

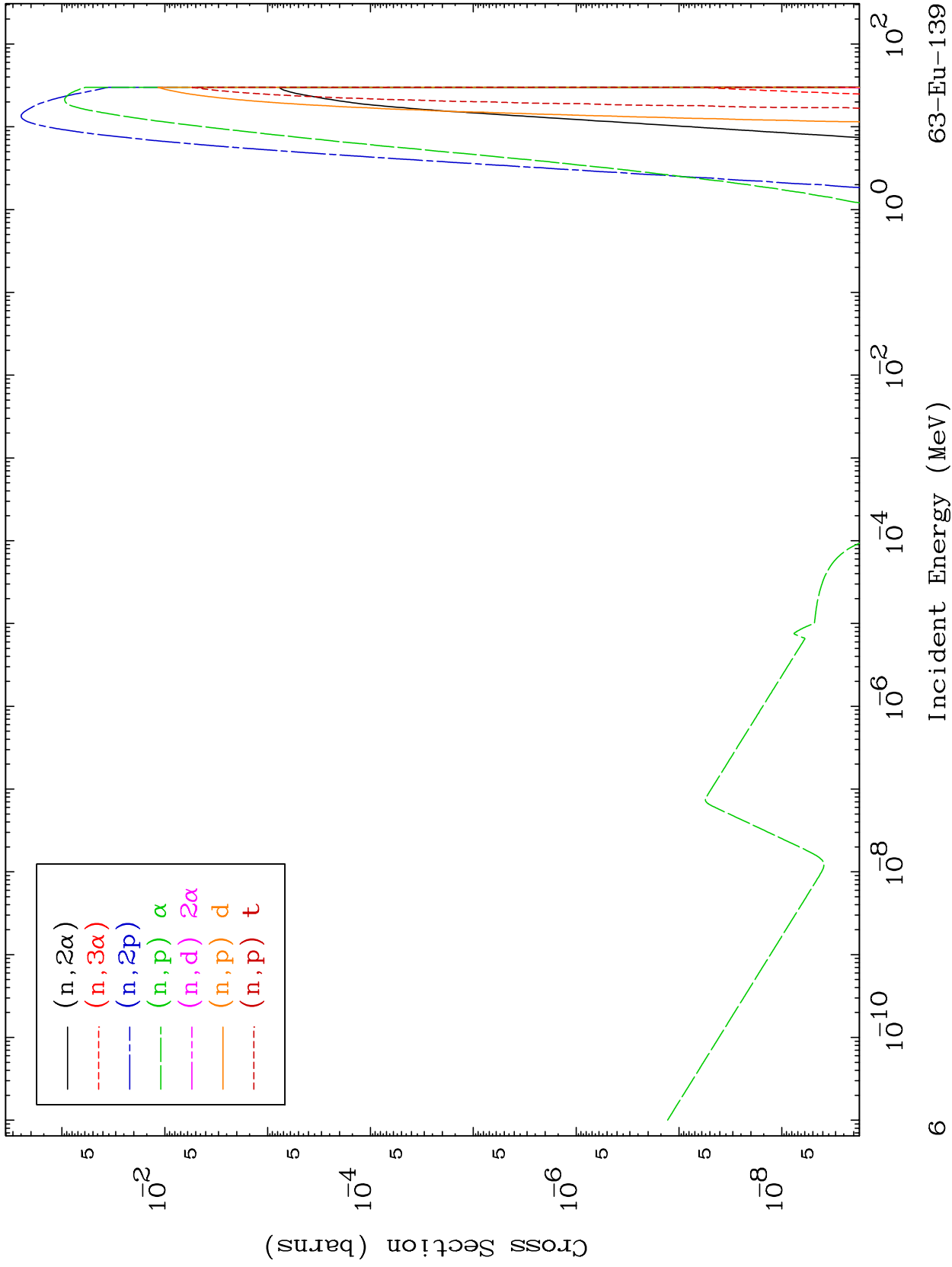
63-Eu-139



MAT 6289

Charged Particle
293 Kelvin Cross Sections

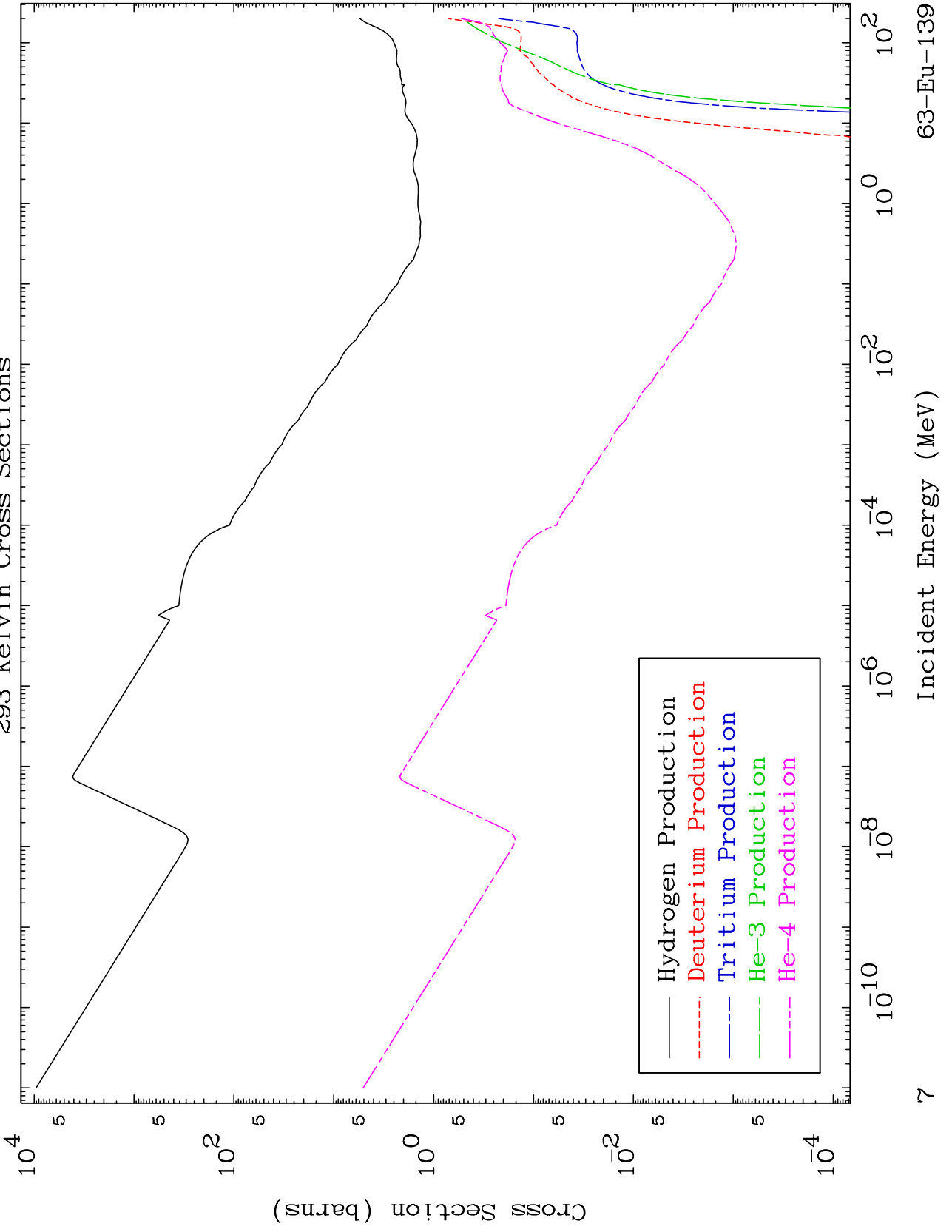
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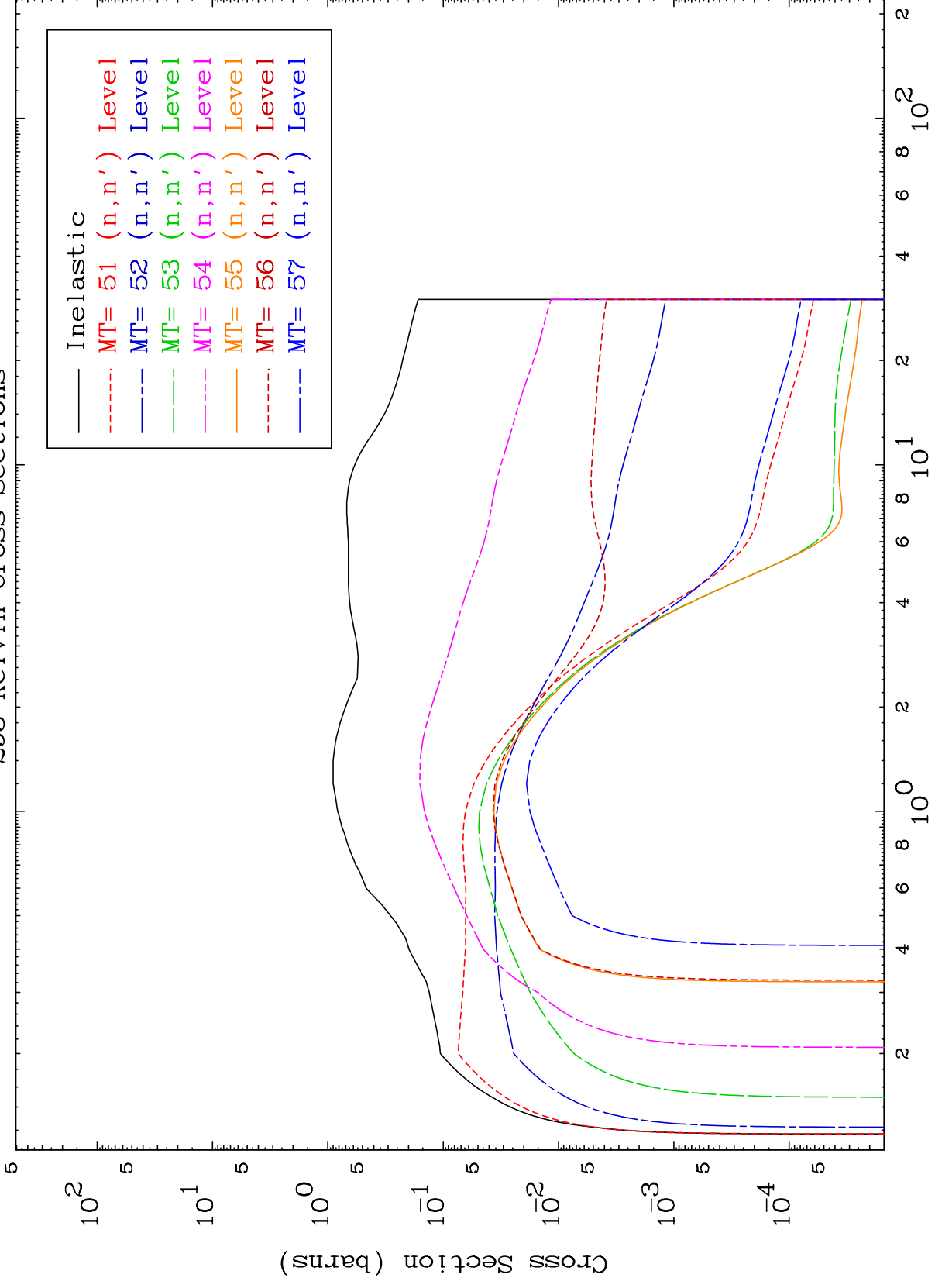
MAT 6289

Particle Production
293 Kelvin Cross Sections

63-Eu-139



293 Kelvin Cross Sections

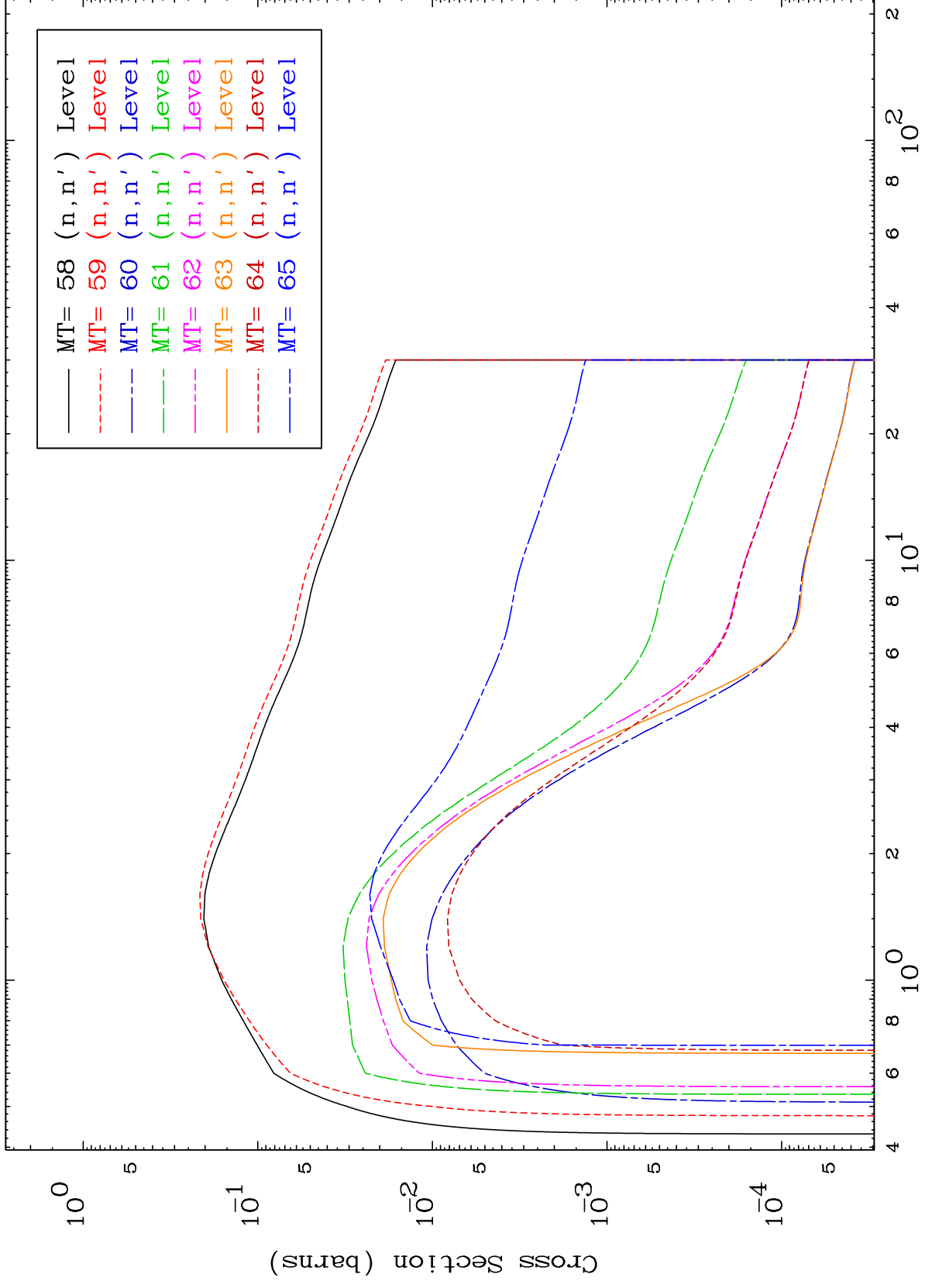


MAT 6289

(n,n') Level

63-Eu-139

293 Kelvin Cross Sections



9

Incident Energy (MeV)

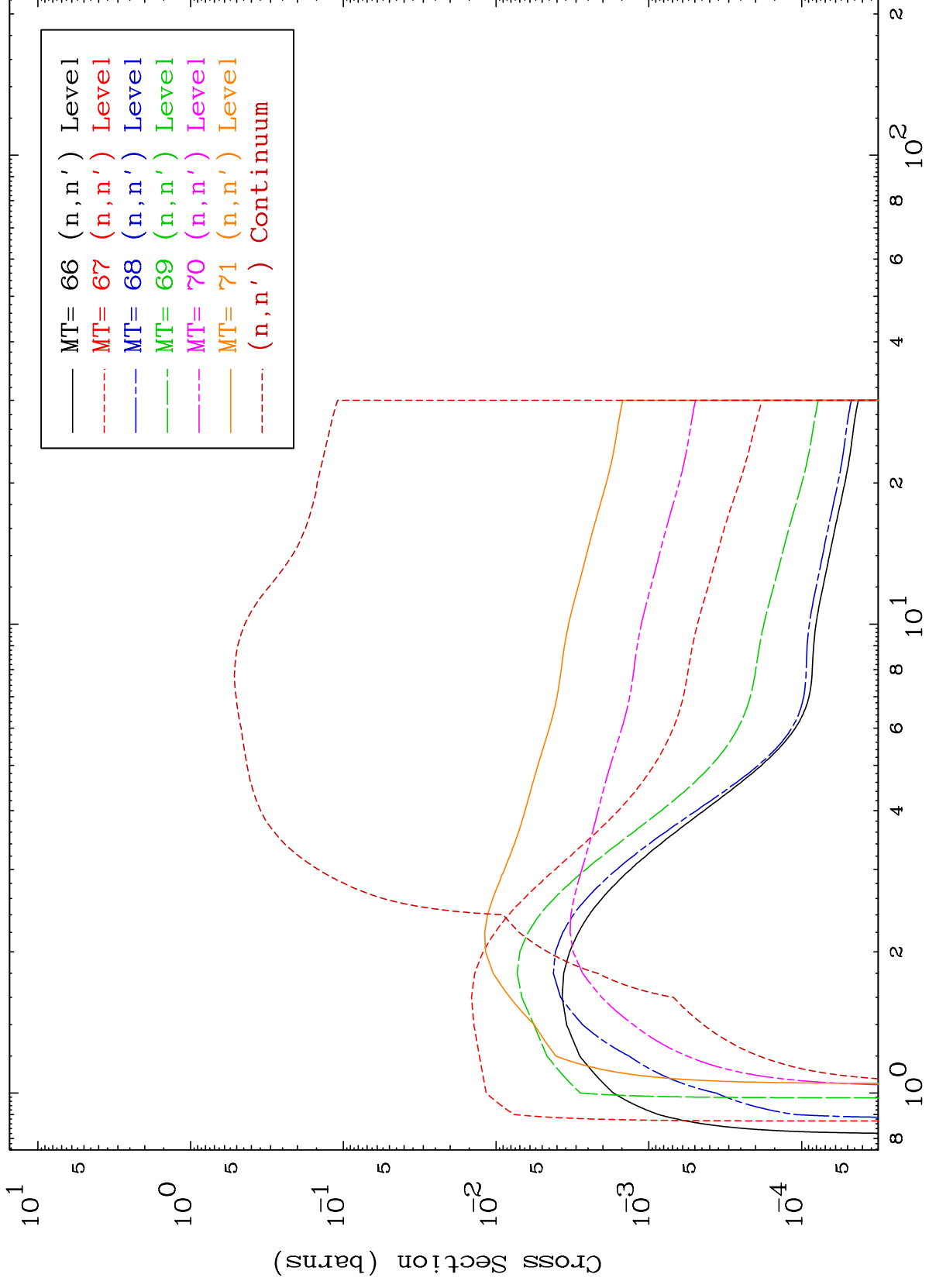
63-Eu-139

MAT 6289

(n,n') Level

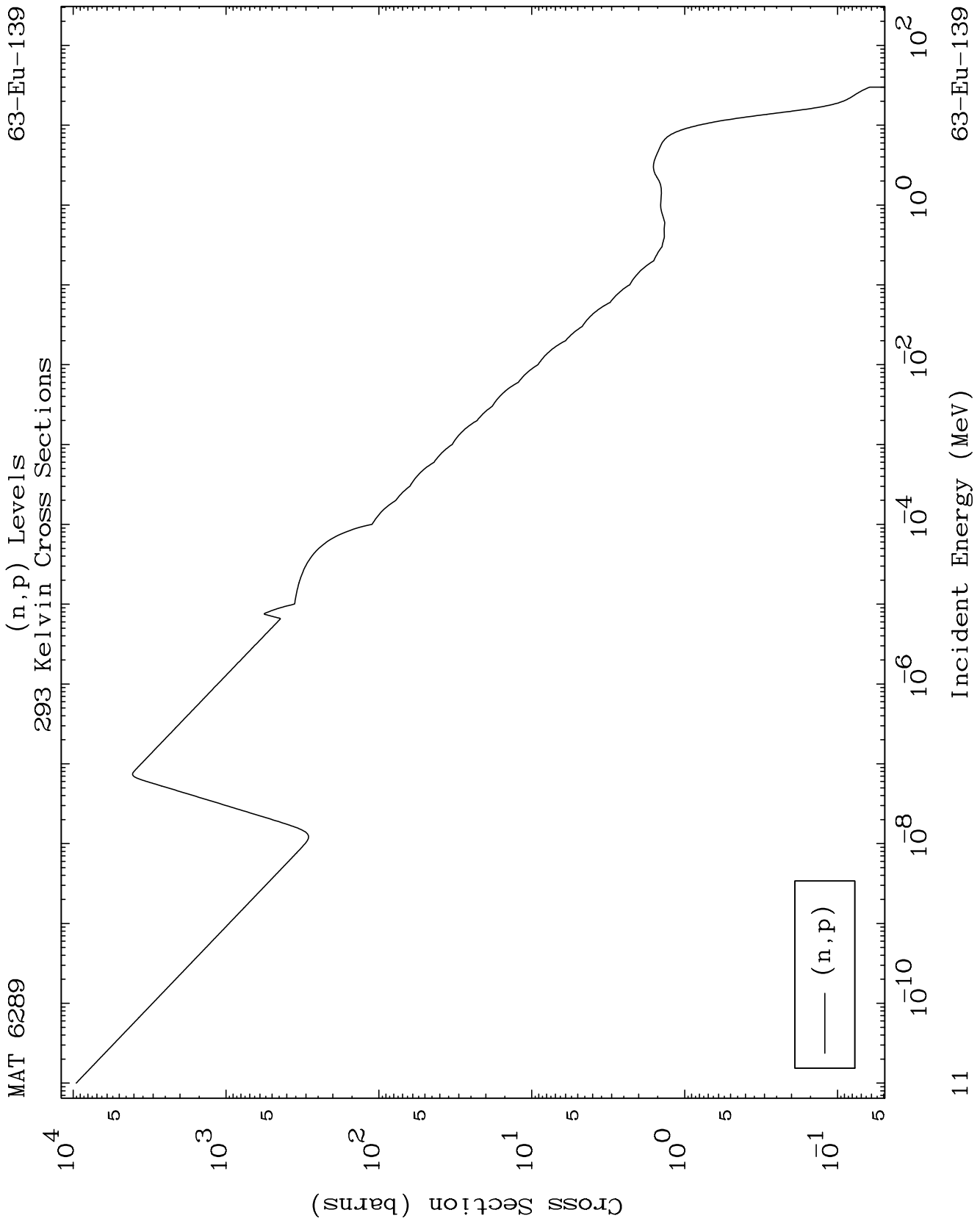
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293 Kelvin Cross Sections



Incident Energy (MeV)

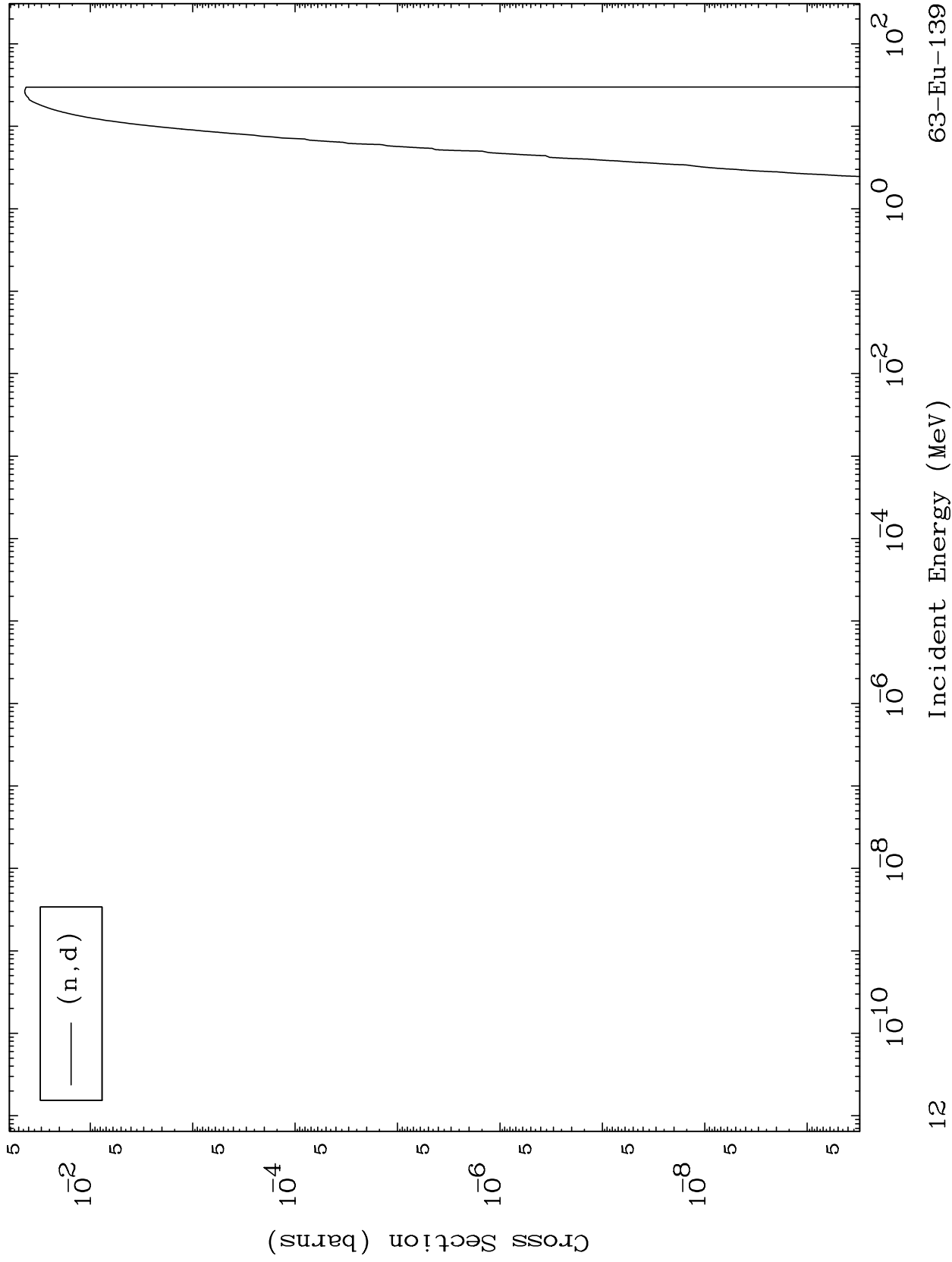
63-Eu-139



MAT 6289

(n,d) Levels
293 Kelvin Cross Sections

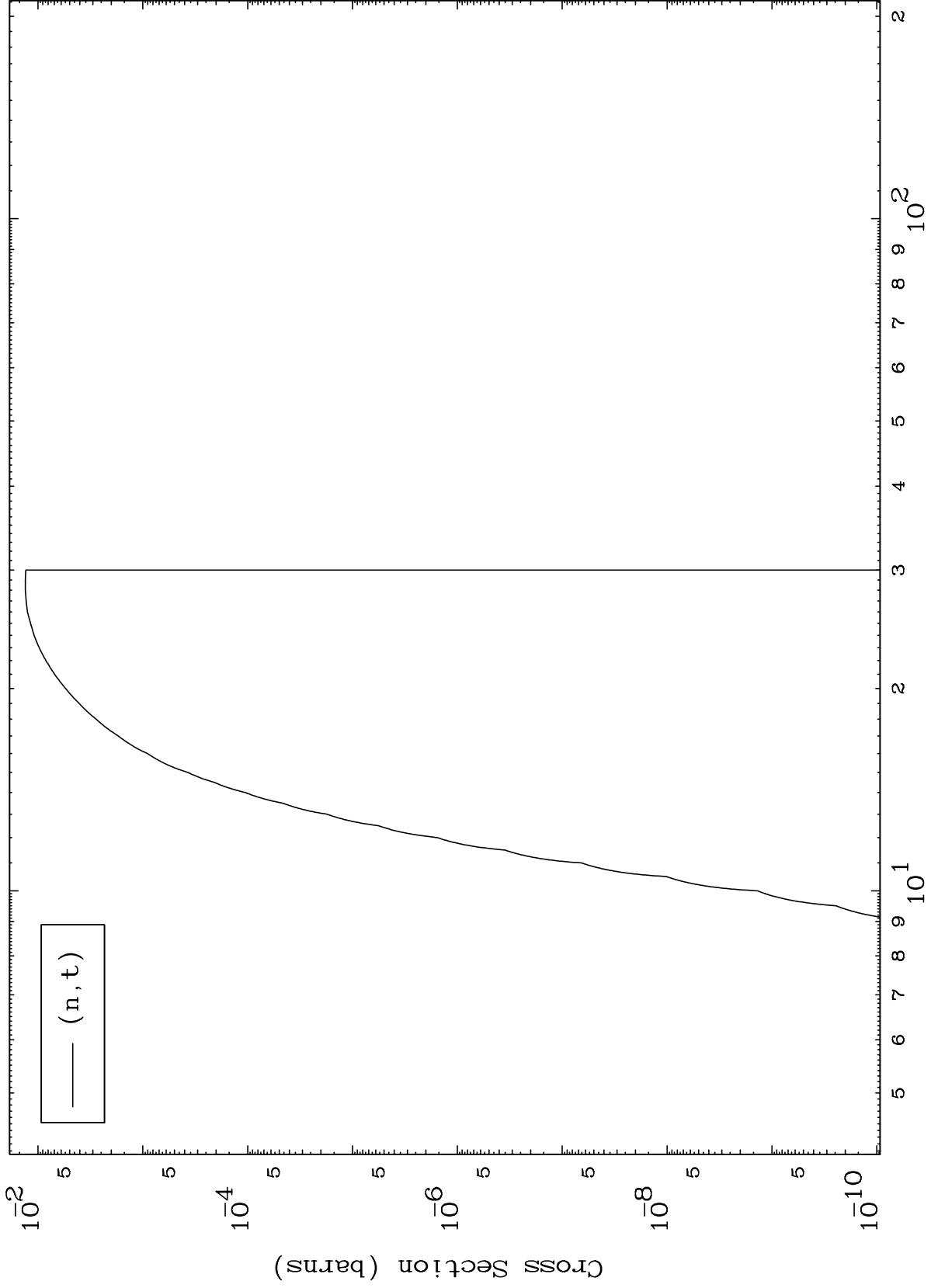
63-Eu-139



MAT 6289

(n,t) Levels
293 Kelvin Cross Sections

63-Eu-139



13

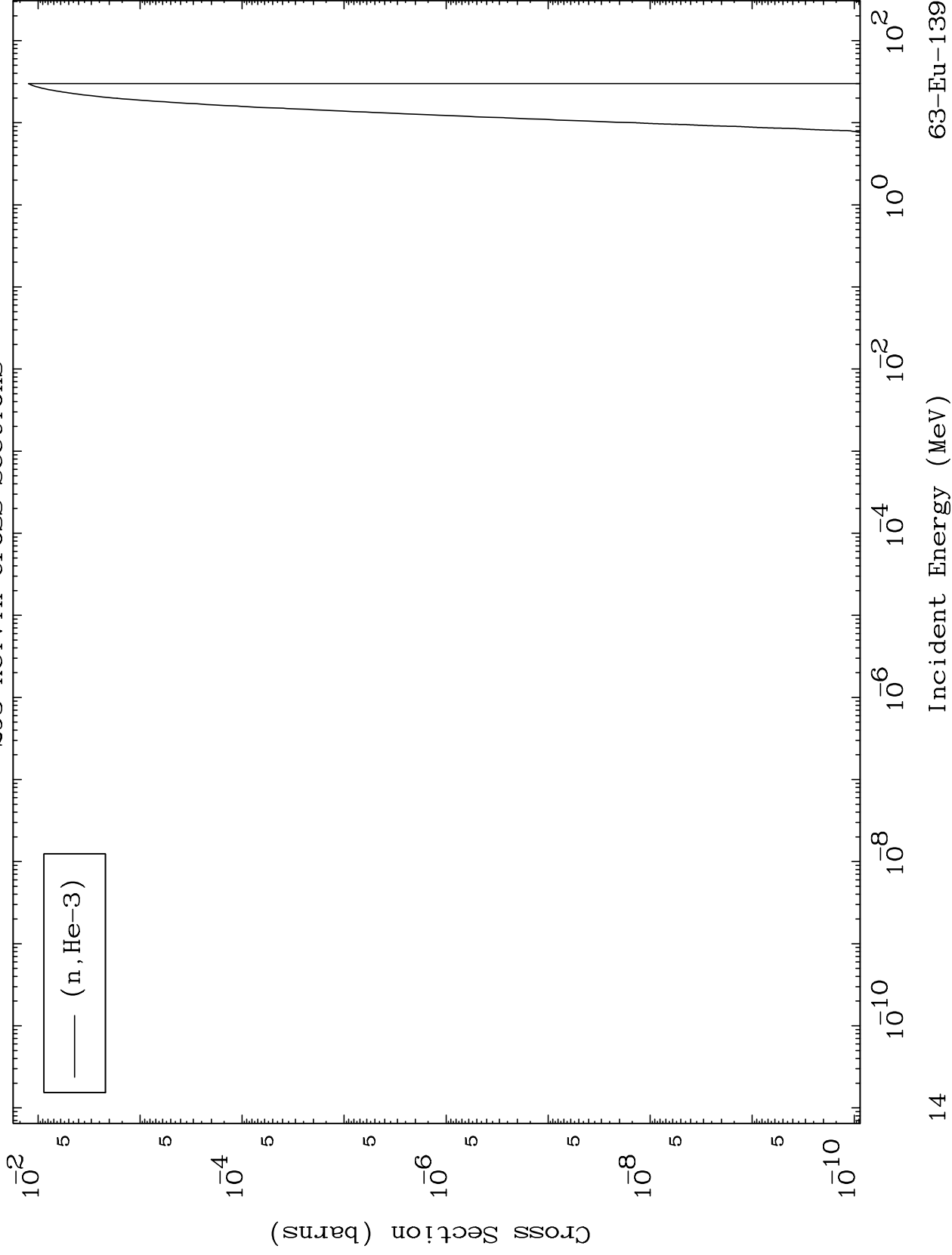
Incident Energy (MeV)

63-Eu-139

MAT 6289

(n,He3) Levels
293 Kelvin Cross Sections

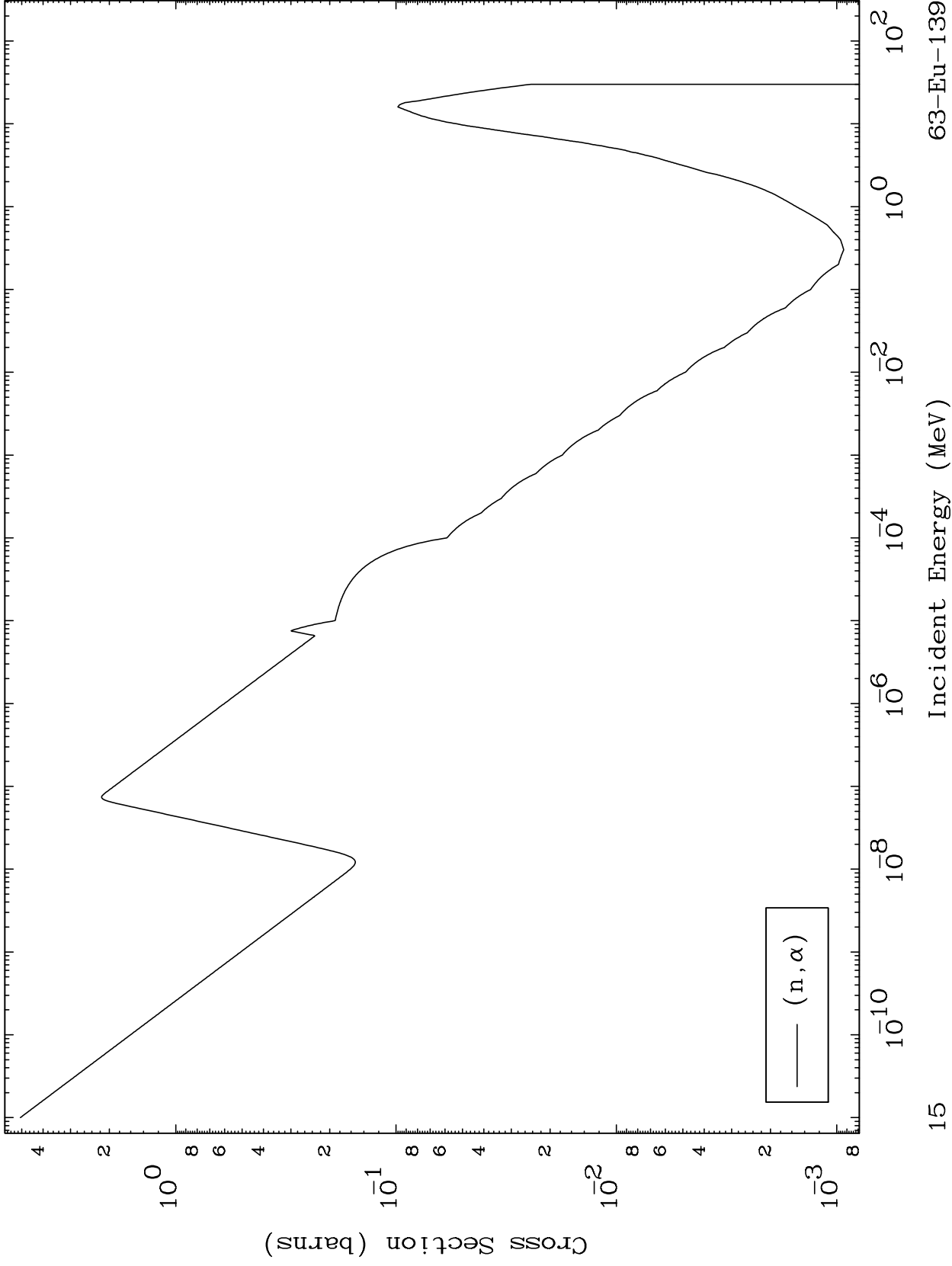
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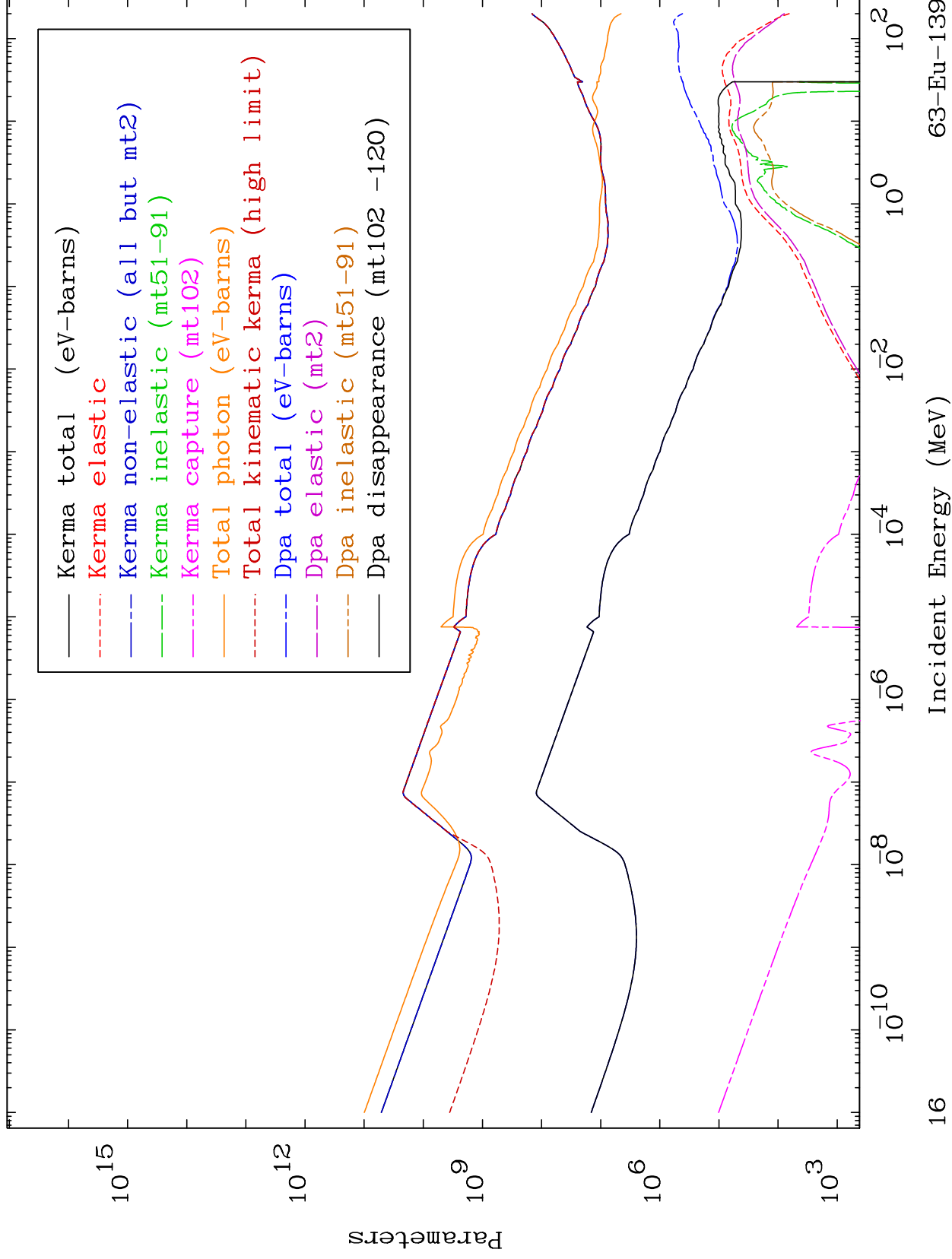


MAT 6289

(n,α) Levels
293 Kelvin Cross Sections

63-Eu-139

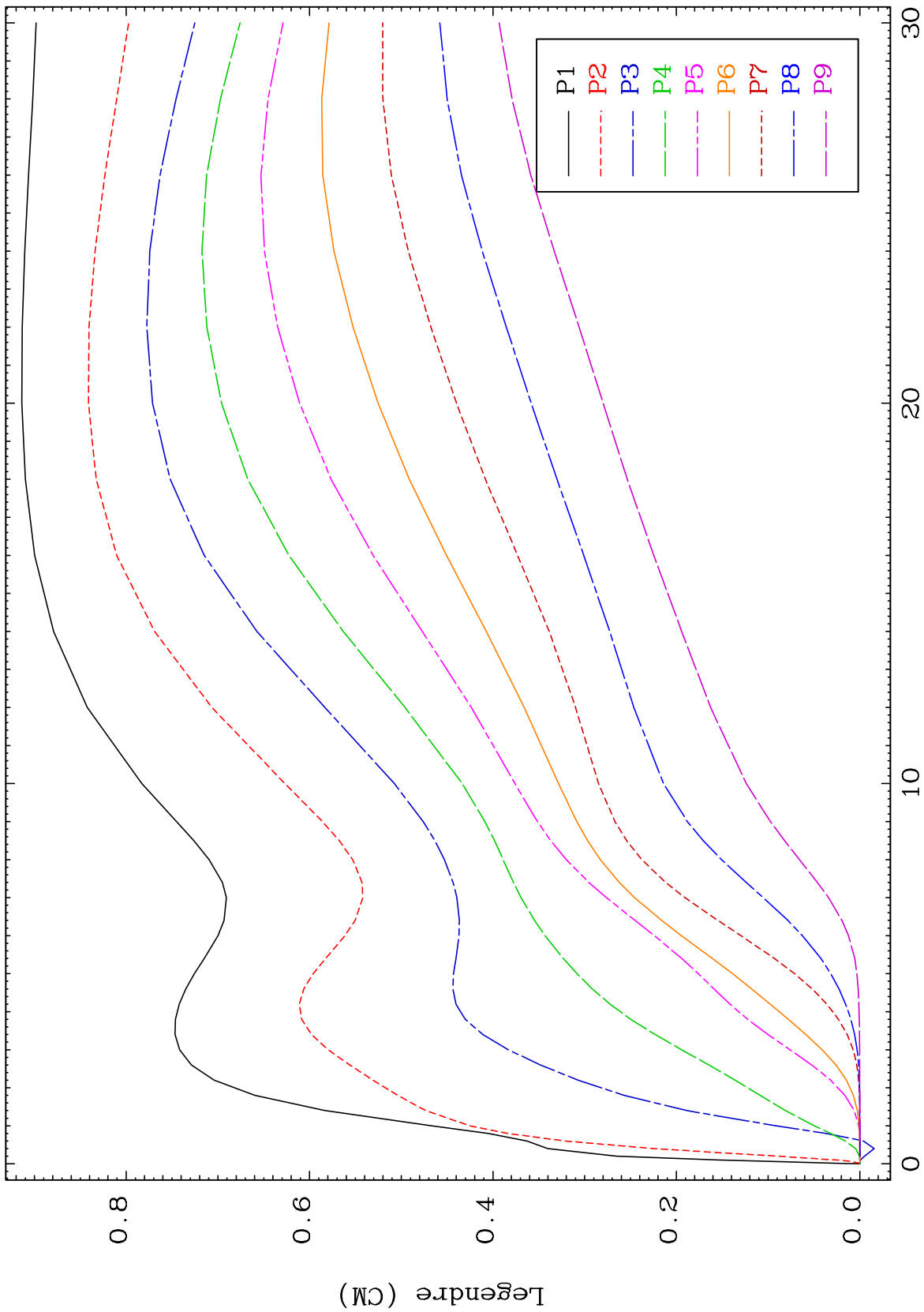




MAT 6289

63-Eu-139

Elastic Legendre Coefficients



17

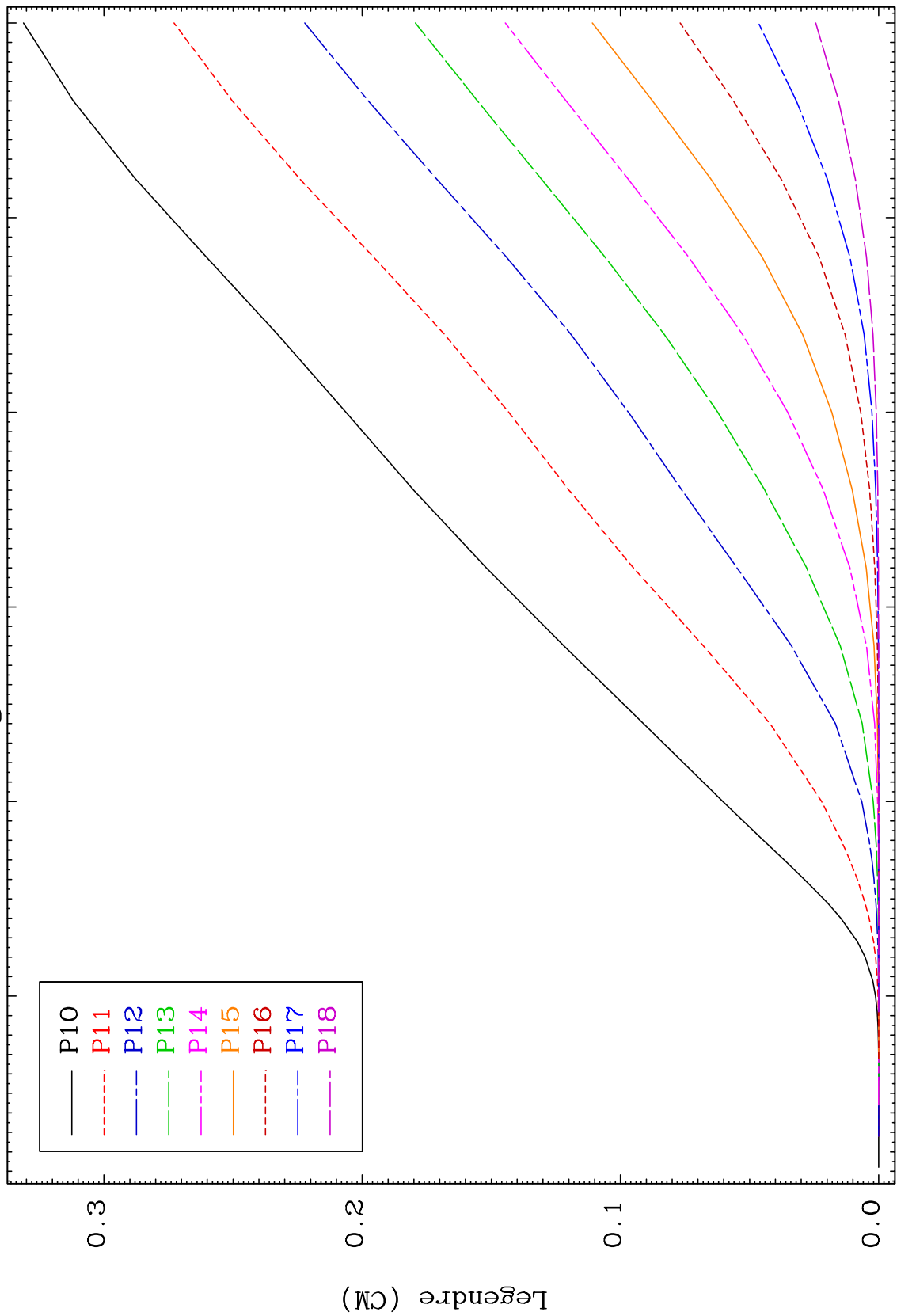
Incident Energy (MeV)

63-Eu-139

MAT 6289

Elastic Legendre Coefficients

63-Eu-139



18

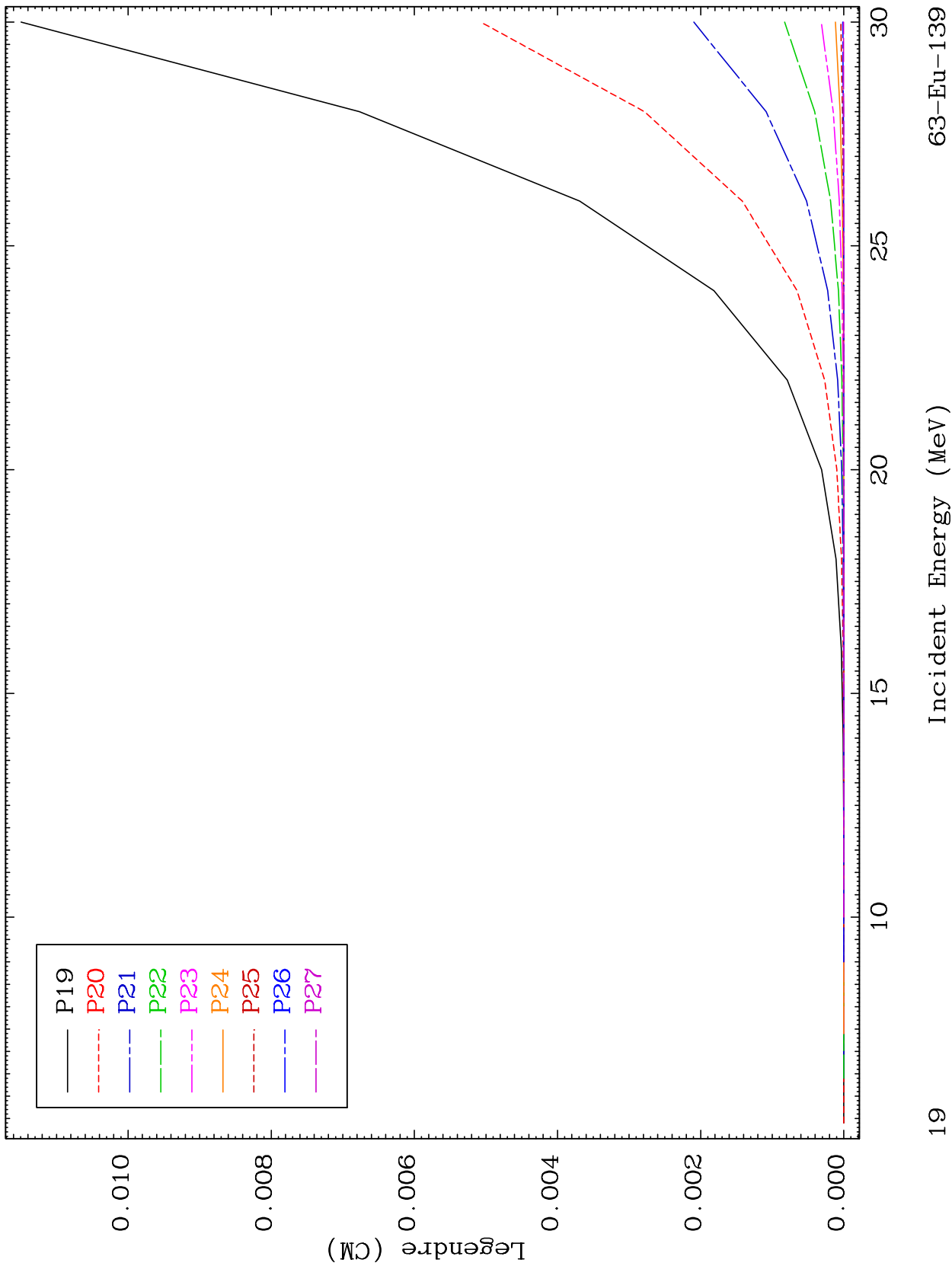
Incident Energy (MeV)

63-Eu-139

MAT 6289

Elastic Legendre Coefficients

63-Eu-139



19

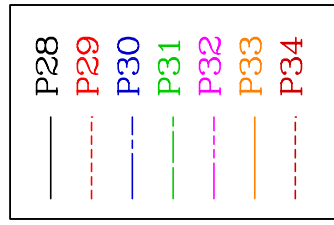
Incident Energy (MeV)

63-Eu-139

MAT 6289

Elastic Legendre Coefficients

63-Eu-139



$\times 10^{-6}$

1.2

1.0

0.8

0.6

0.4

0.2

0.0

Legendre (CM)

15

20

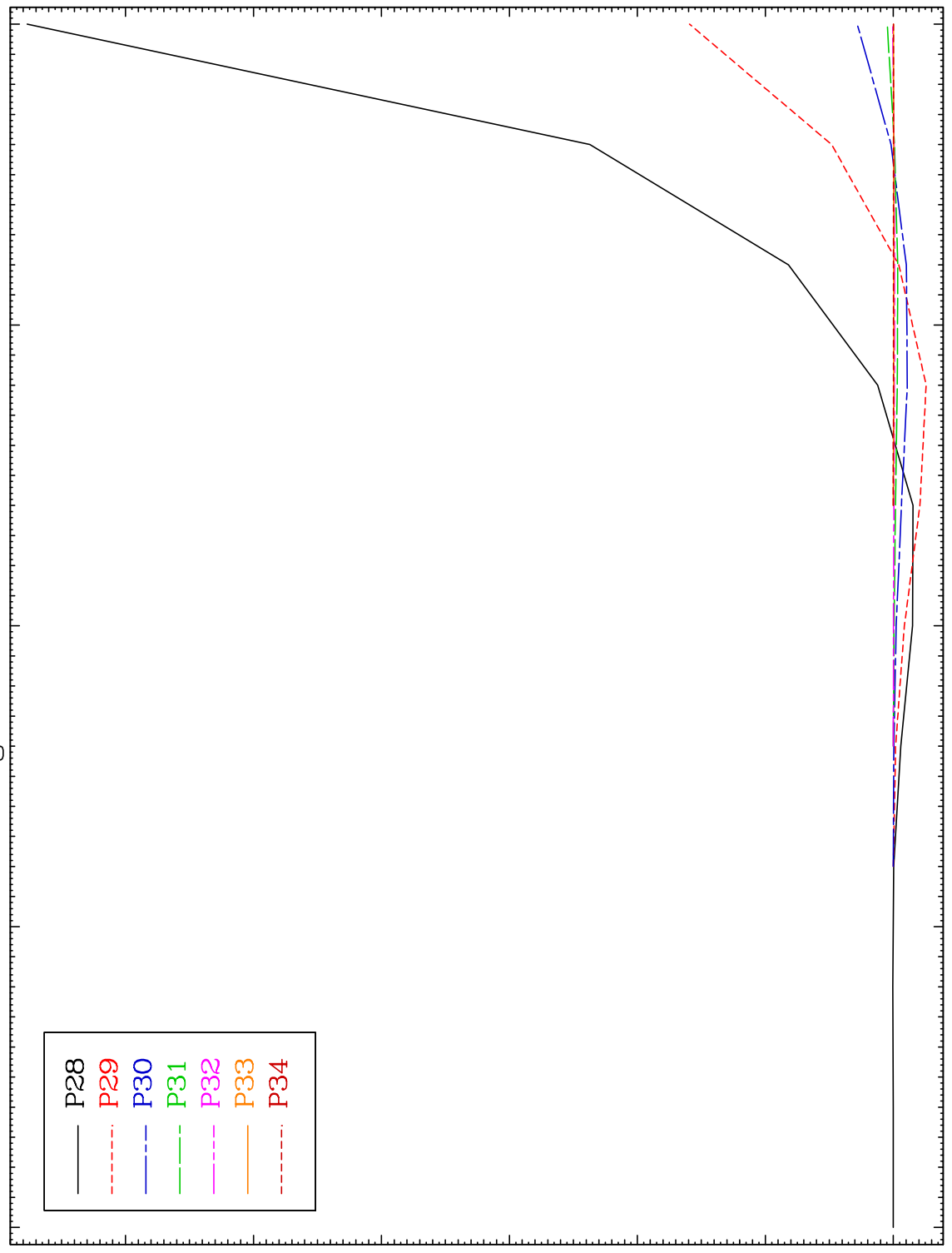
25

30

20

Incident Energy (MeV)

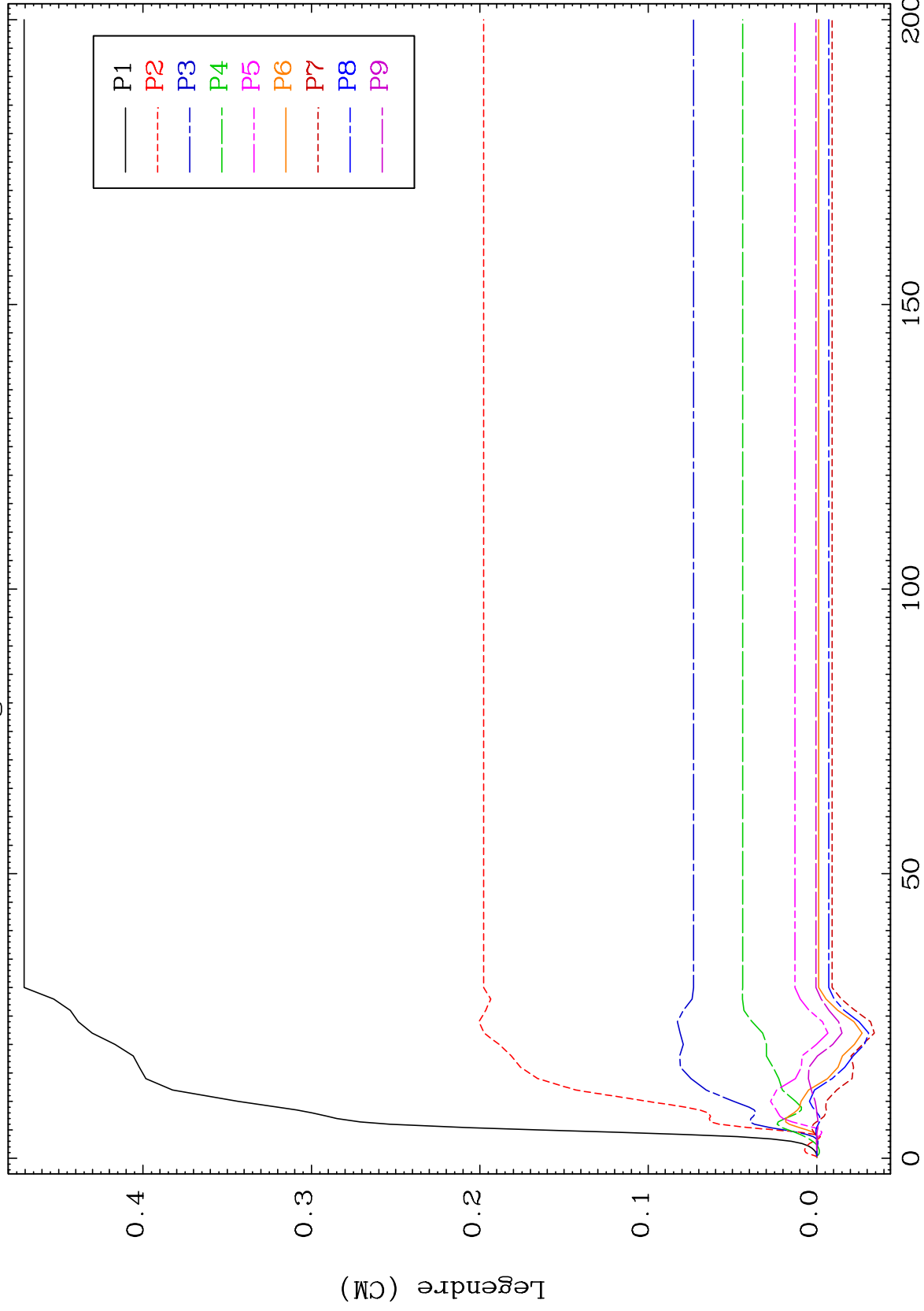
63-Eu-139



MAT 6289

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

63-Eu-139



63-Eu-139

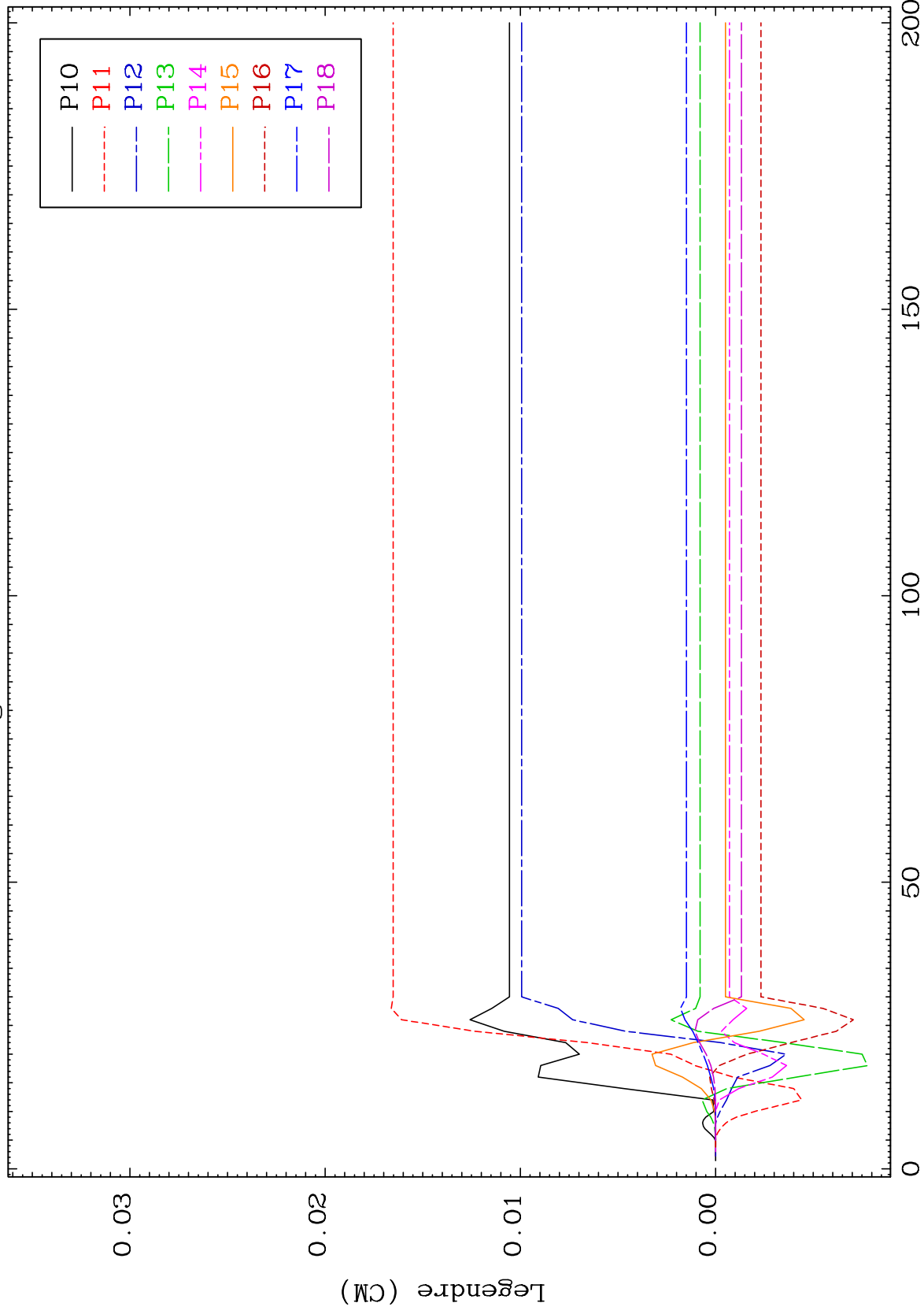
Incident Energy (MeV)

21

MAT 6289

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

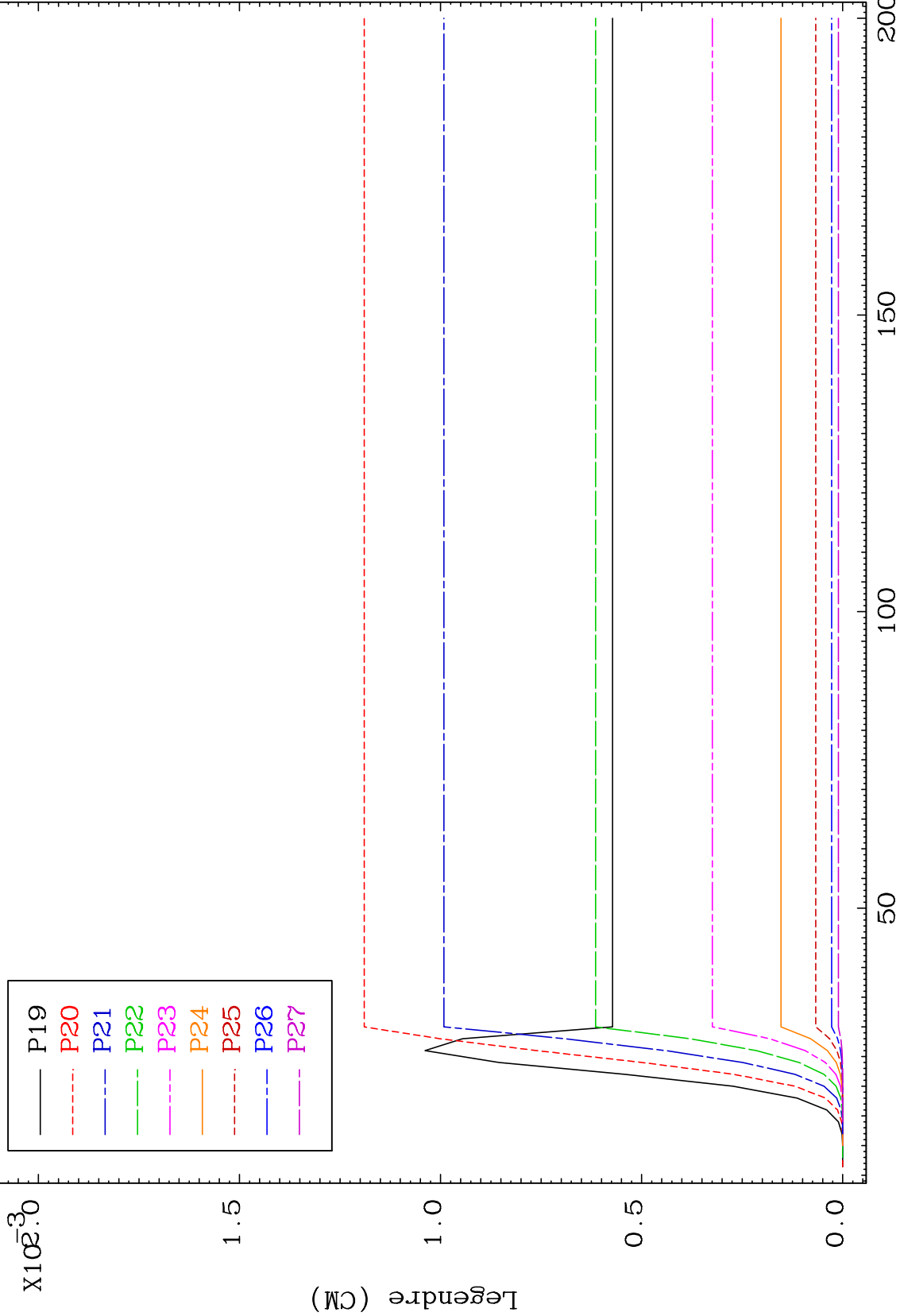
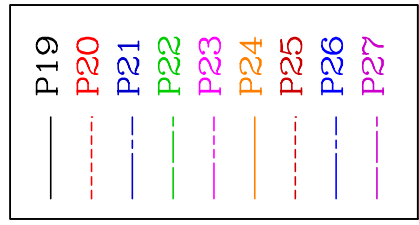
63-Eu-139



22

Incident Energy (MeV)

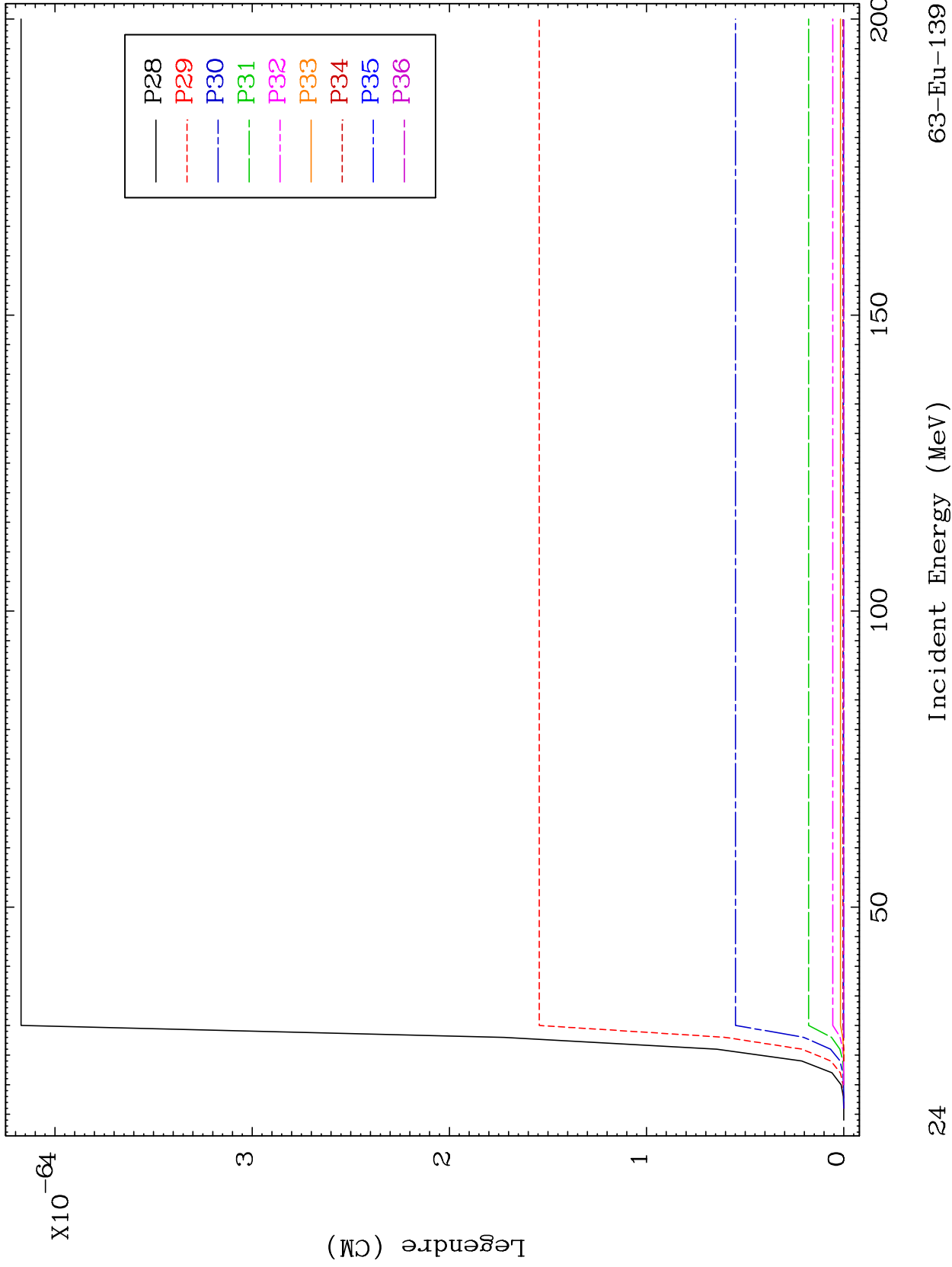
63-Eu-139



MAT 6289

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

63-Eu-139



24

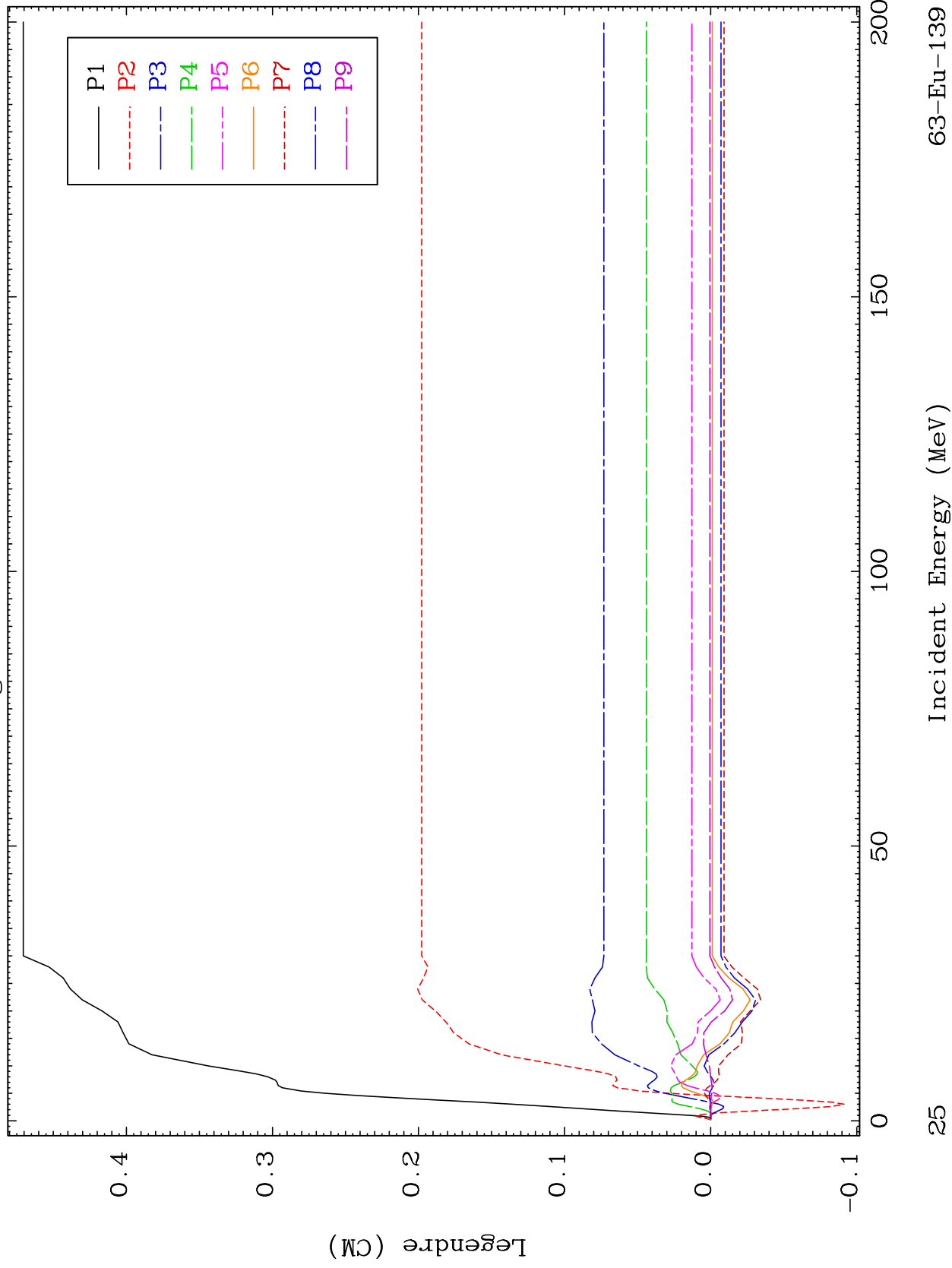
Incident Energy (MeV)

63-Eu-139

MAT 6289

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

63-Eu-139



63-Eu-139

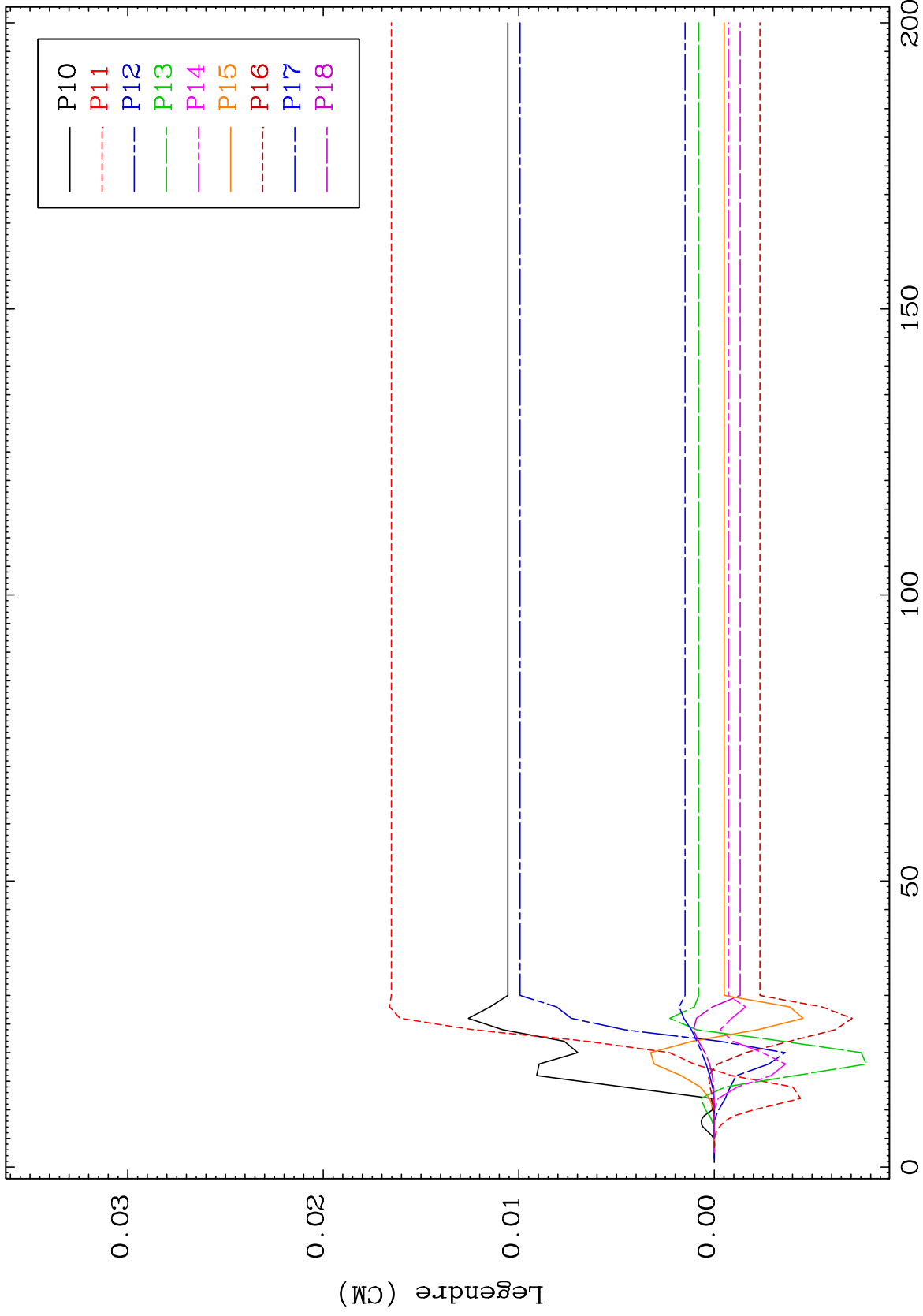
Incident Energy (MeV)

25

MAT 6289

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

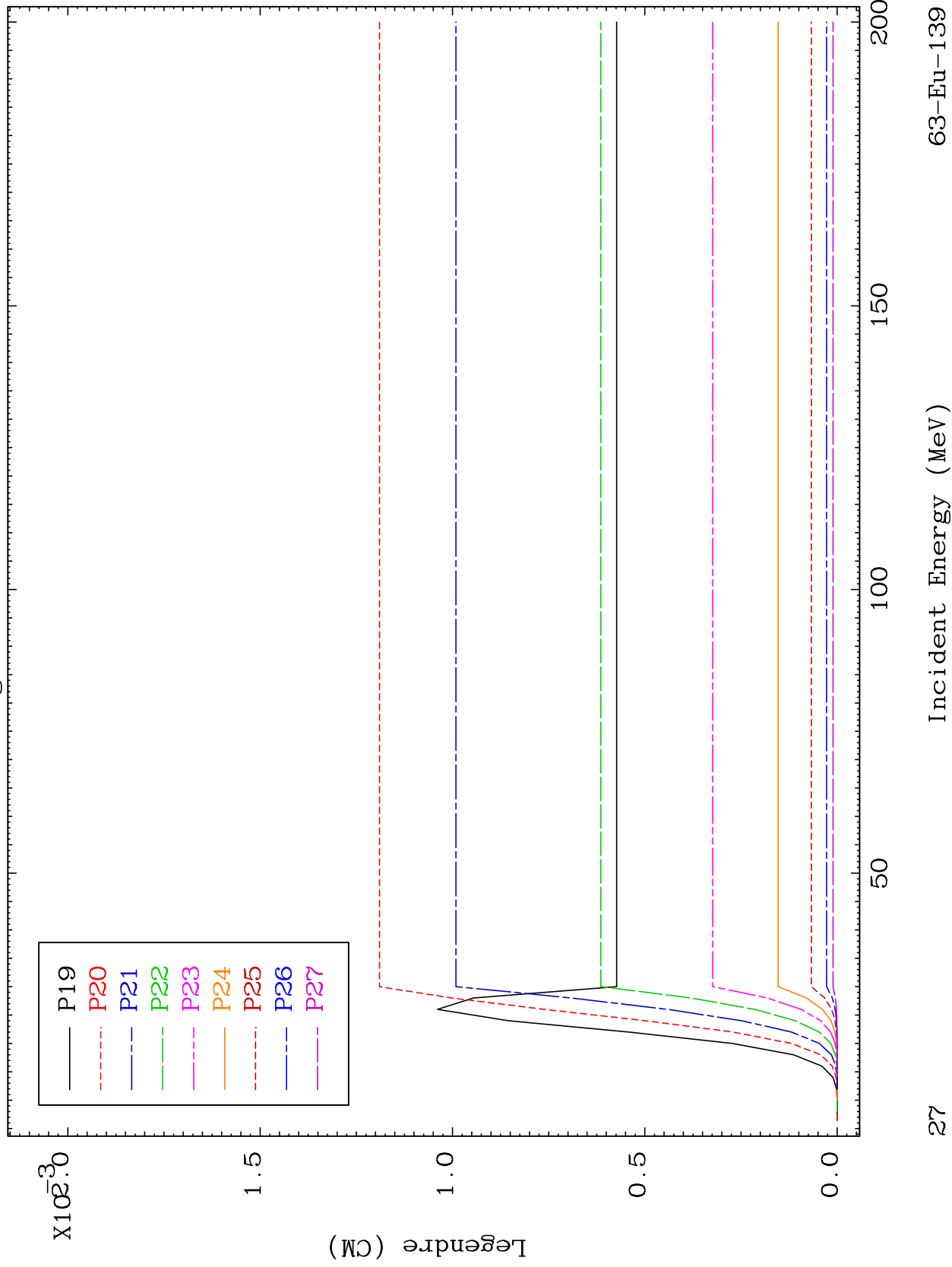
63-Eu-139



26

Incident Energy (MeV)

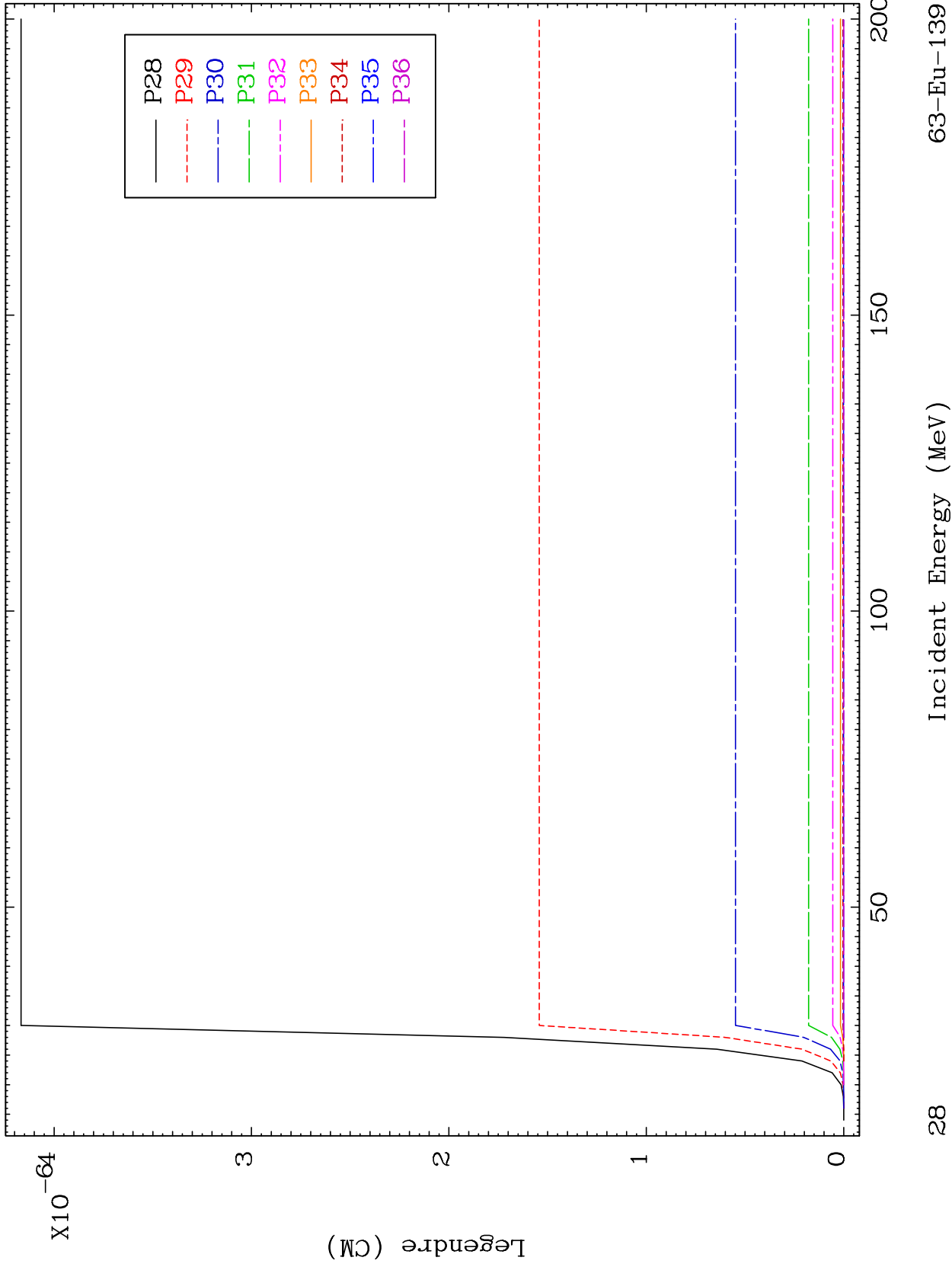
63-Eu-139



MAT 6289

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

63-Eu-139



28

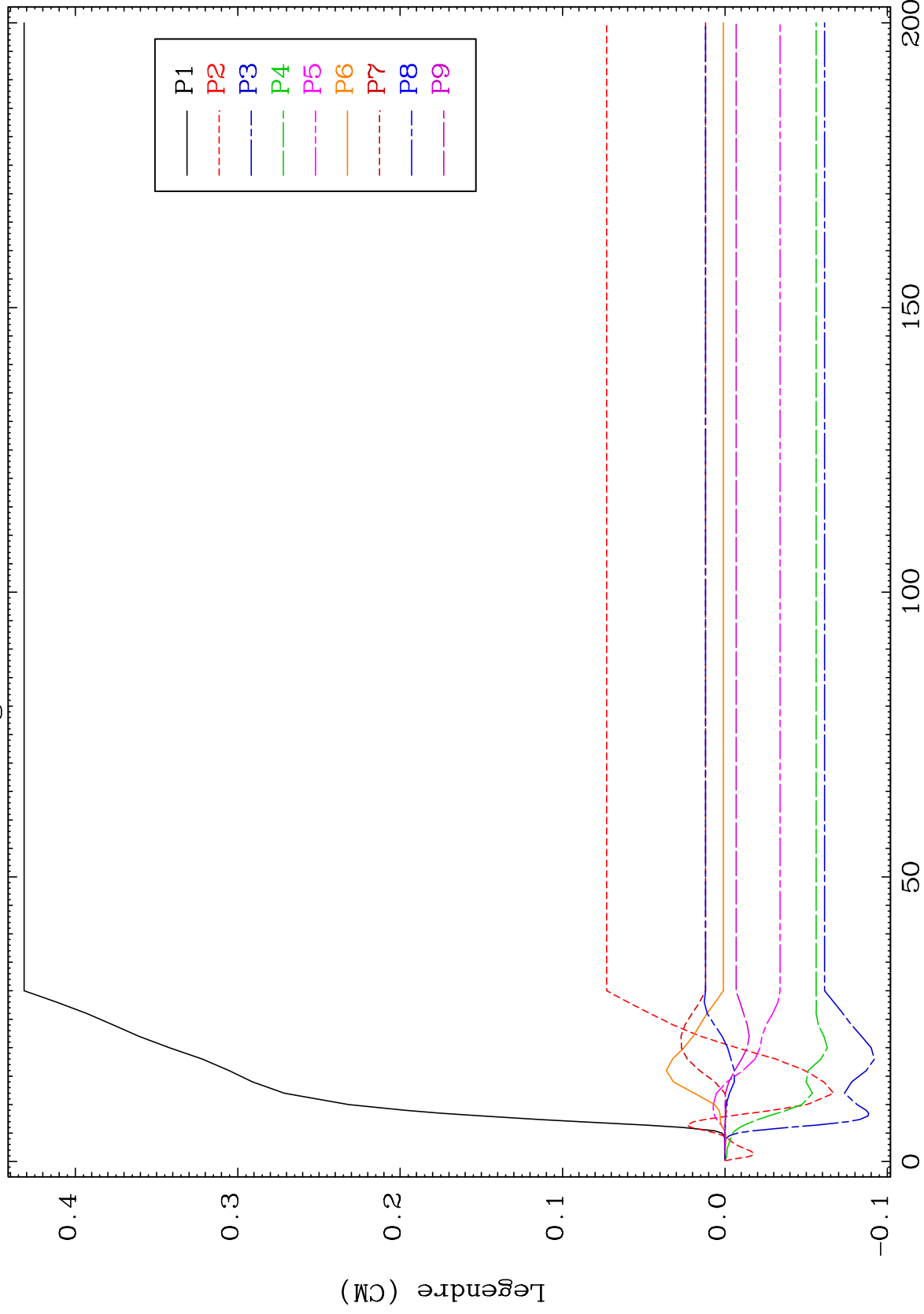
Incident Energy (MeV)

63-Eu-139

MAT 6289

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

63-Eu-139



29

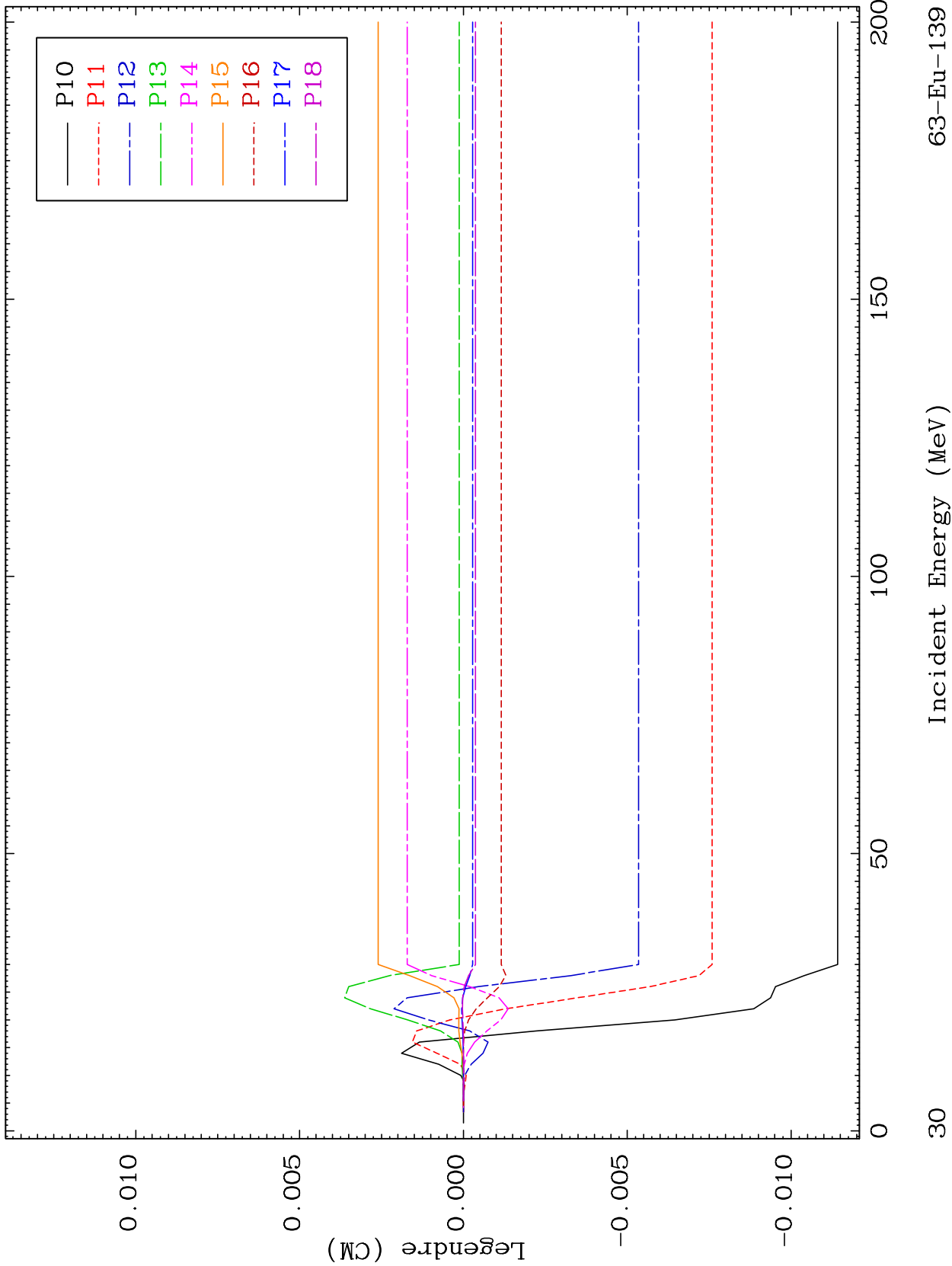
Incident Energy (MeV)

63-Eu-139

MAT 6289

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

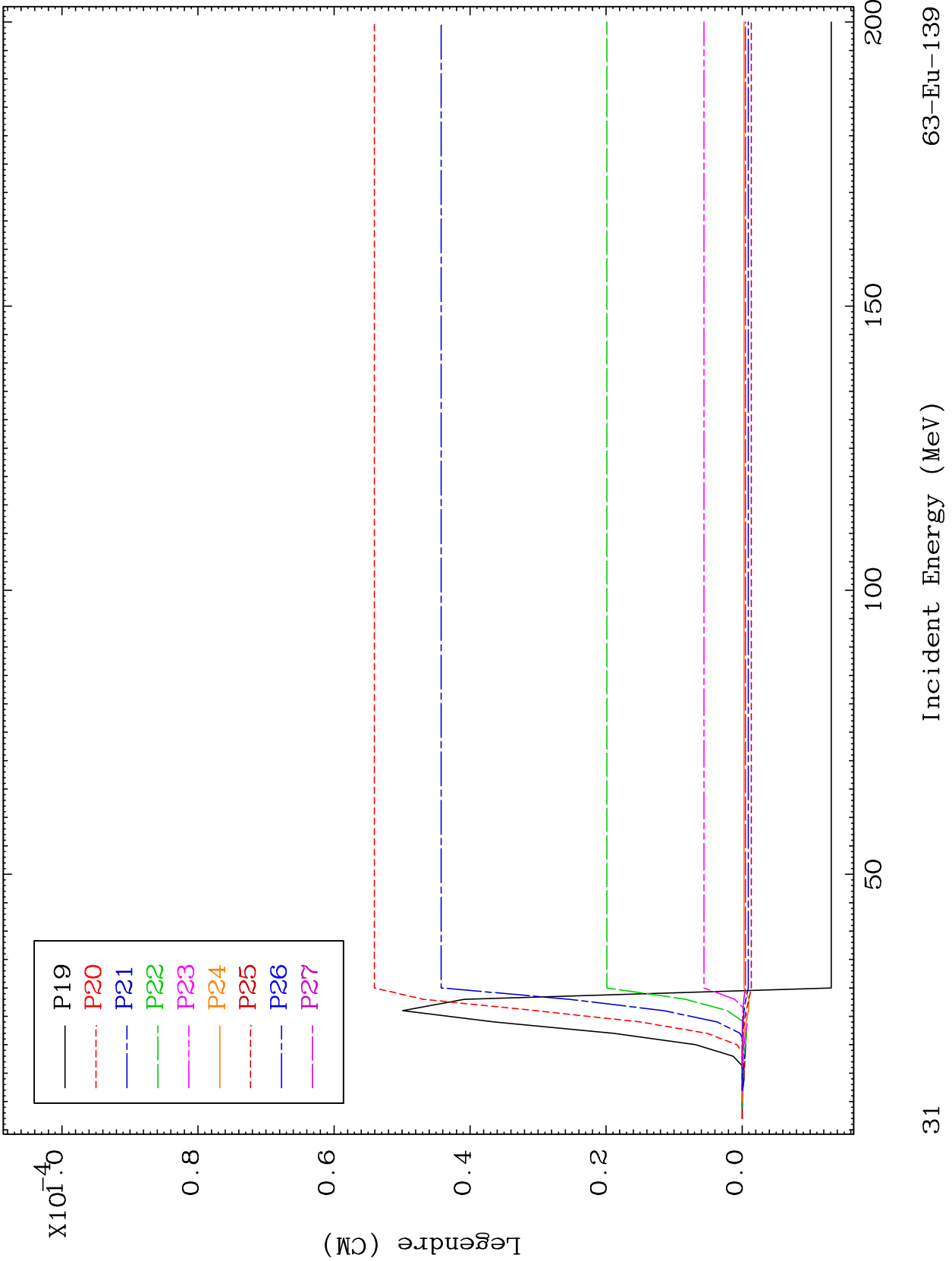
63-Eu-139



63-Eu-139

Incident Energy (MeV)

30

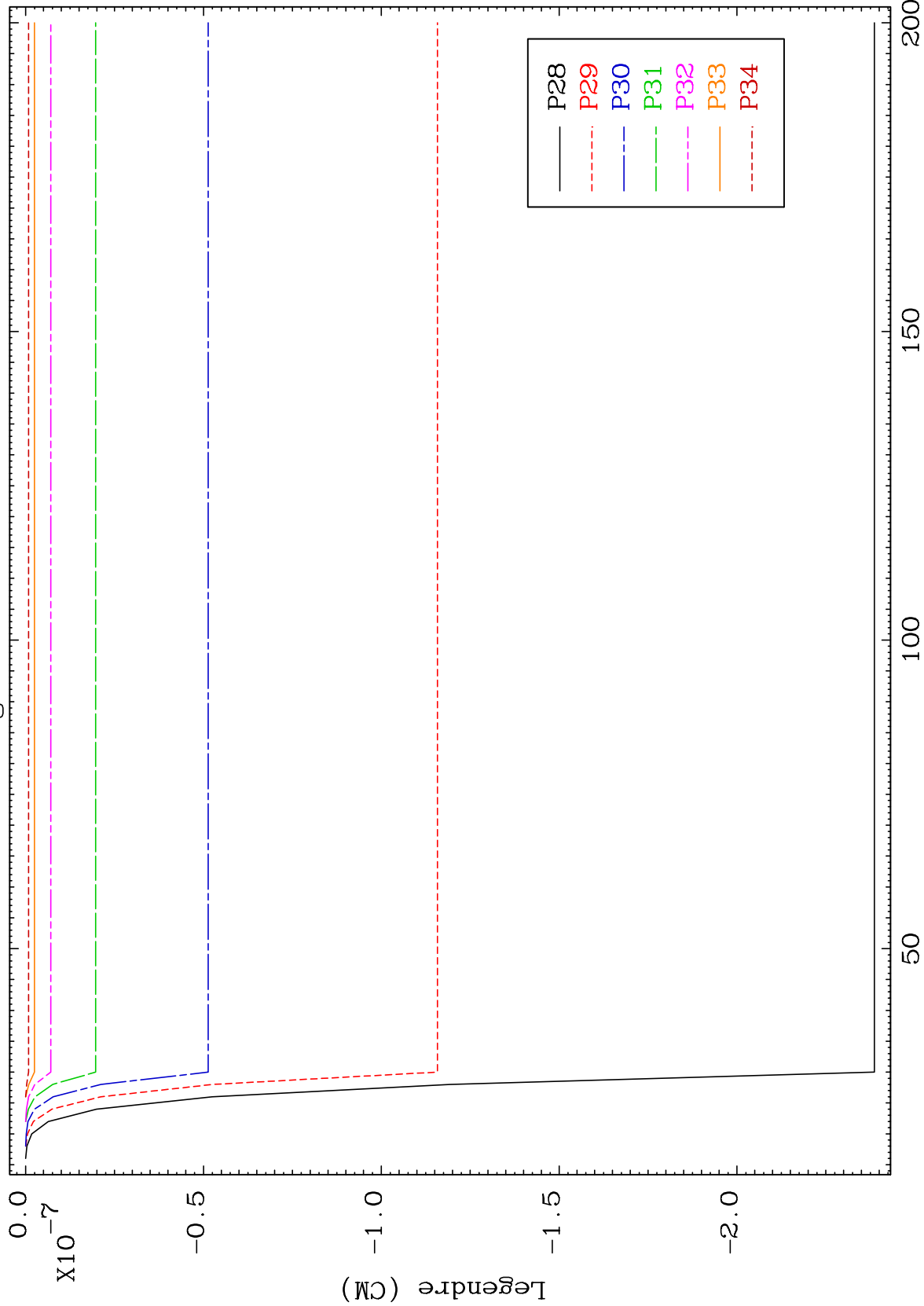


MAT 6289

MT= 53 (n,n') Level

63-Eu-139

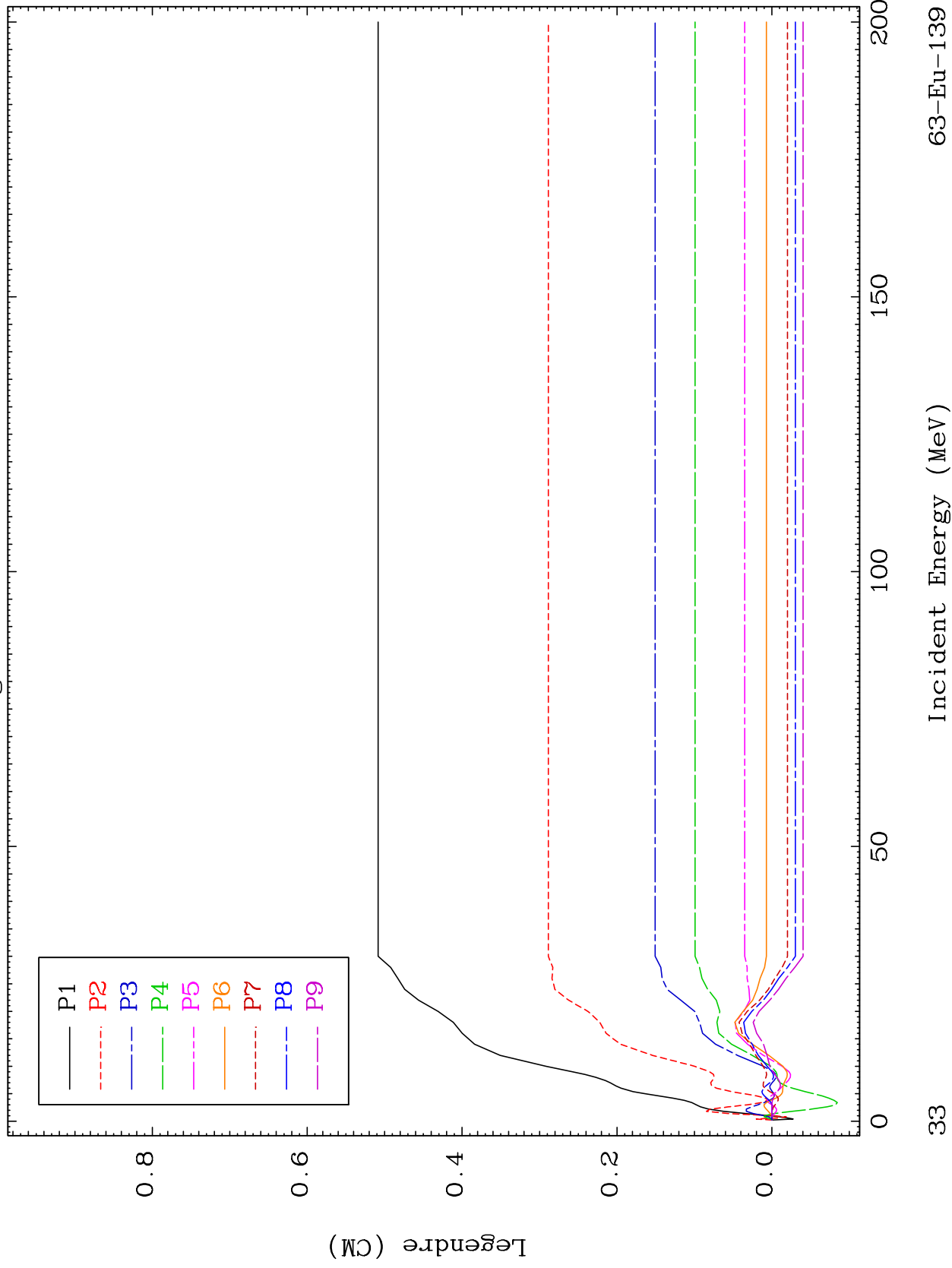
Legendre Coefficients



MAT 6289

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

63-Eu-139



63-Eu-139

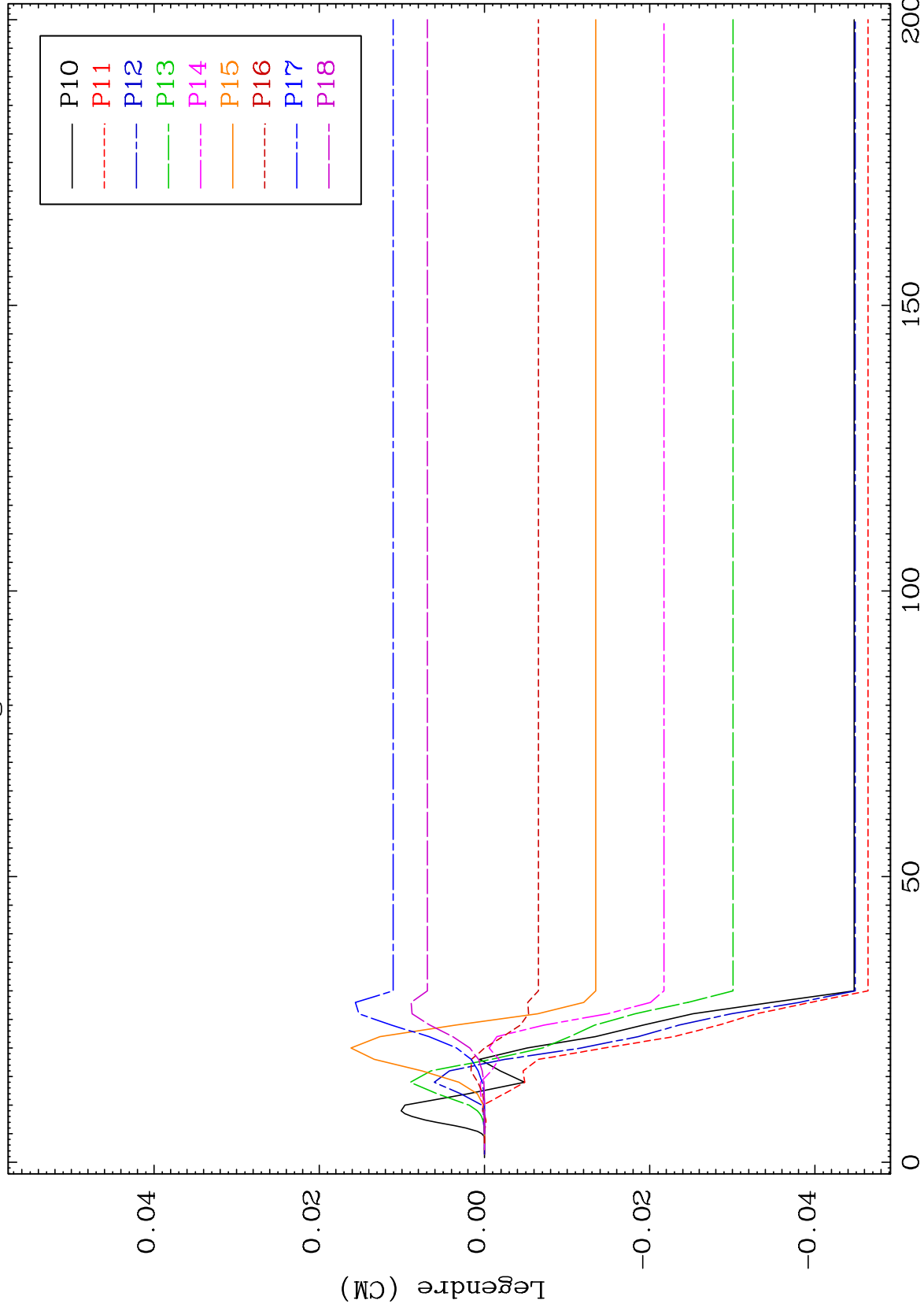
Incident Energy (MeV)

33

MAT 6289

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

63-Eu-139



34

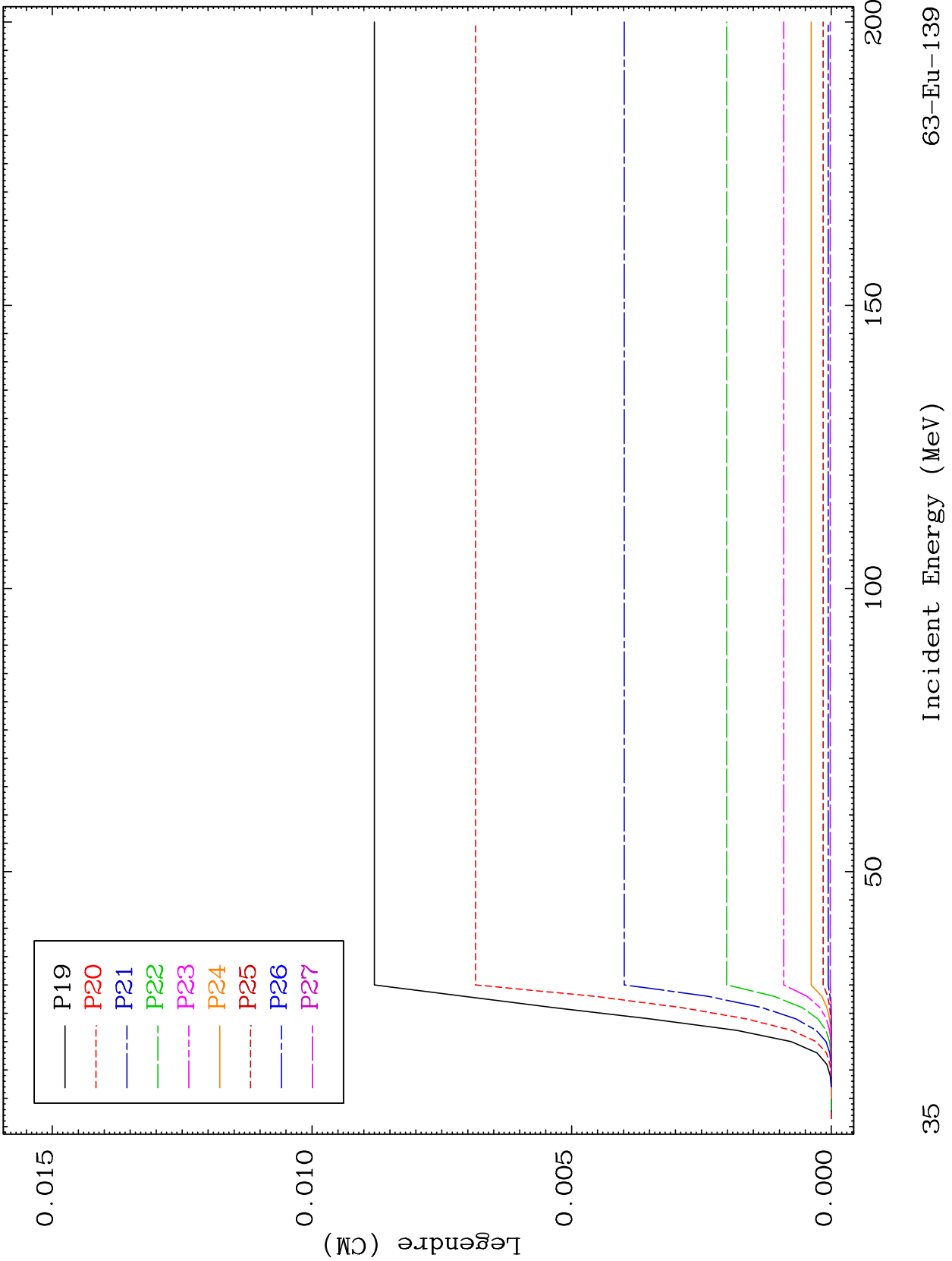
Incident Energy (MeV)

63-Eu-139

MAT 6289

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

63-Eu-139



35

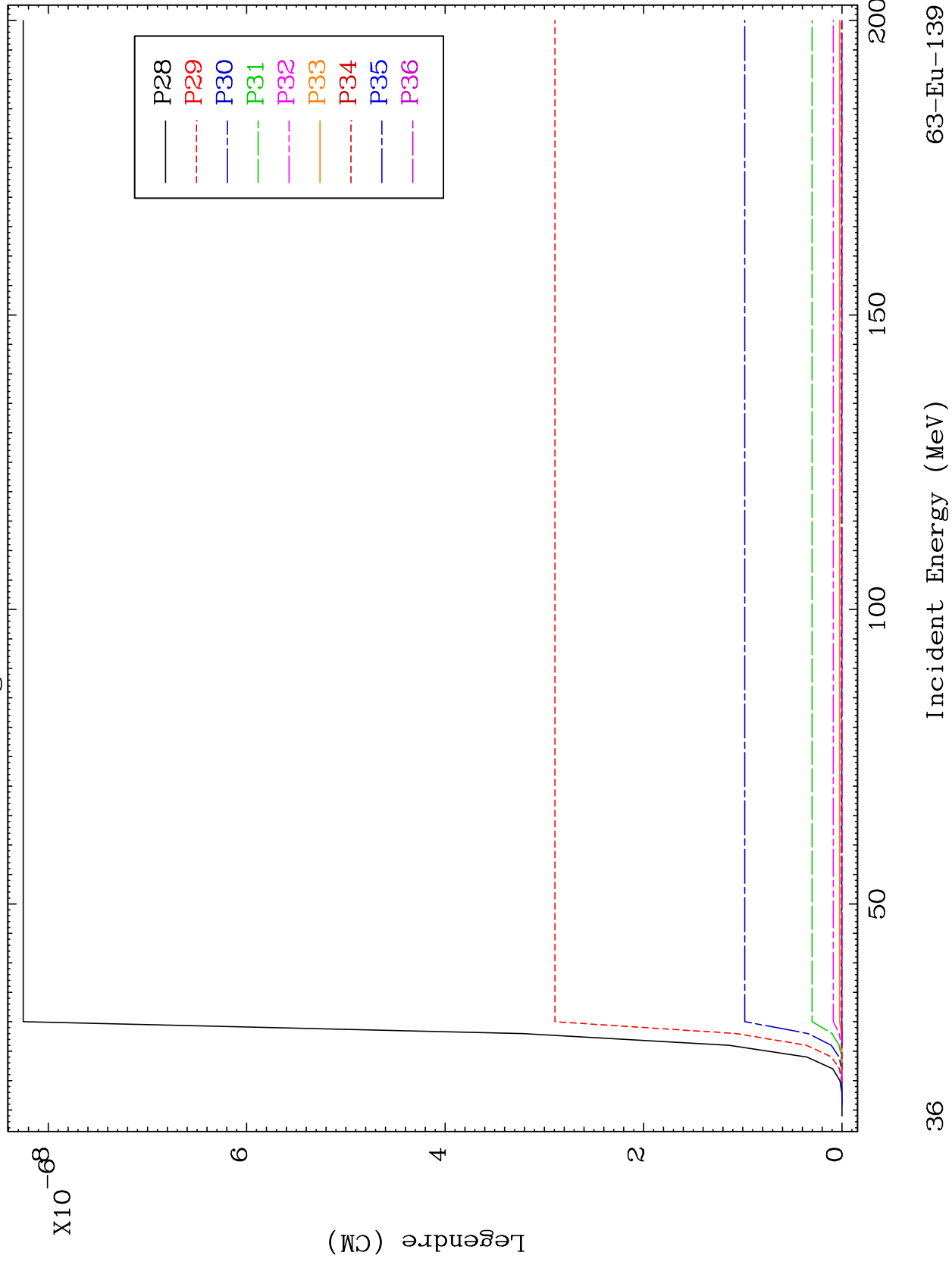
Incident Energy (MeV)

63-Eu-139

MAT 6289

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

63-Eu-139



36

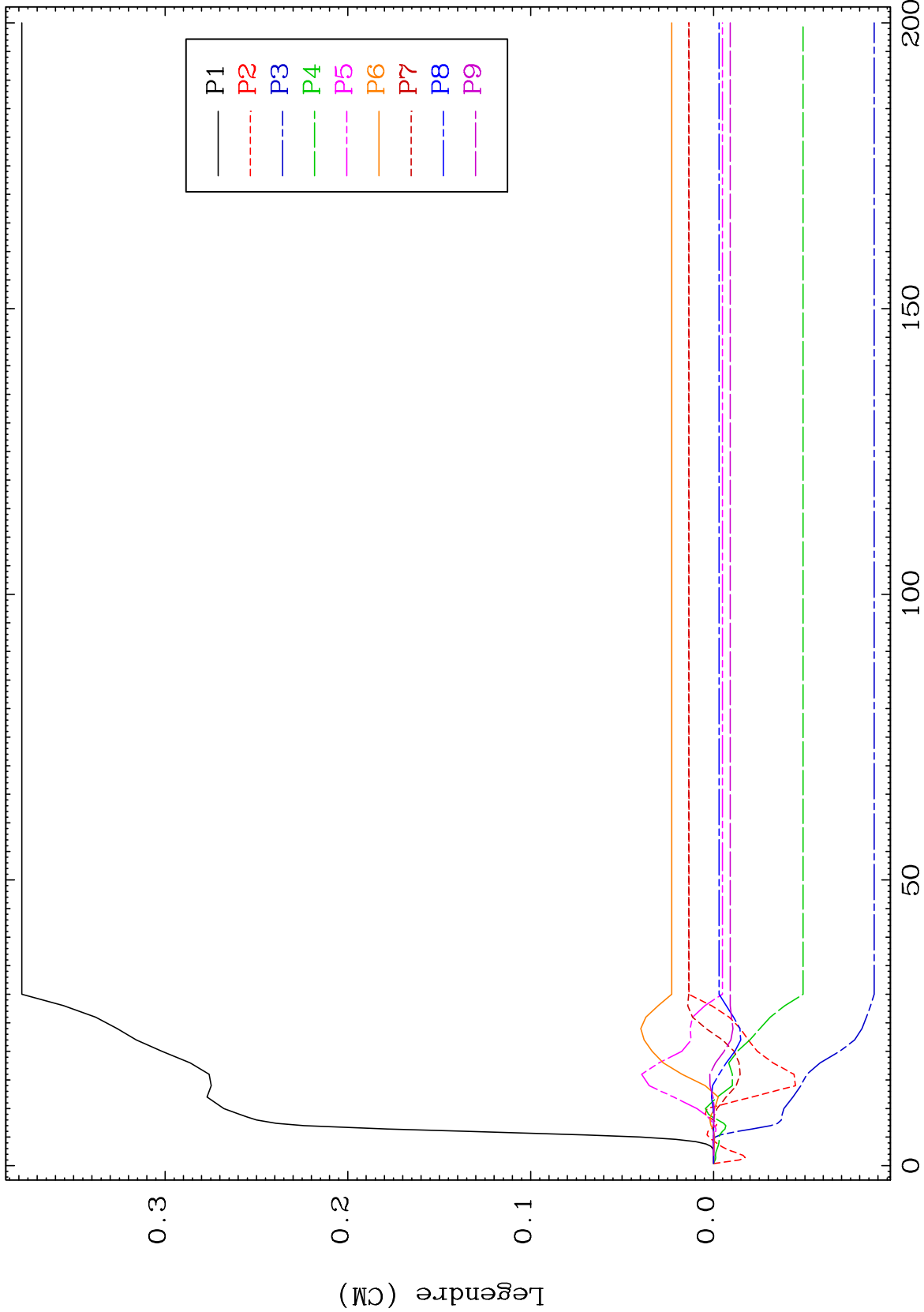
Incident Energy (MeV)

63-Eu-139

MAT 6289

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

63-Eu-139



37

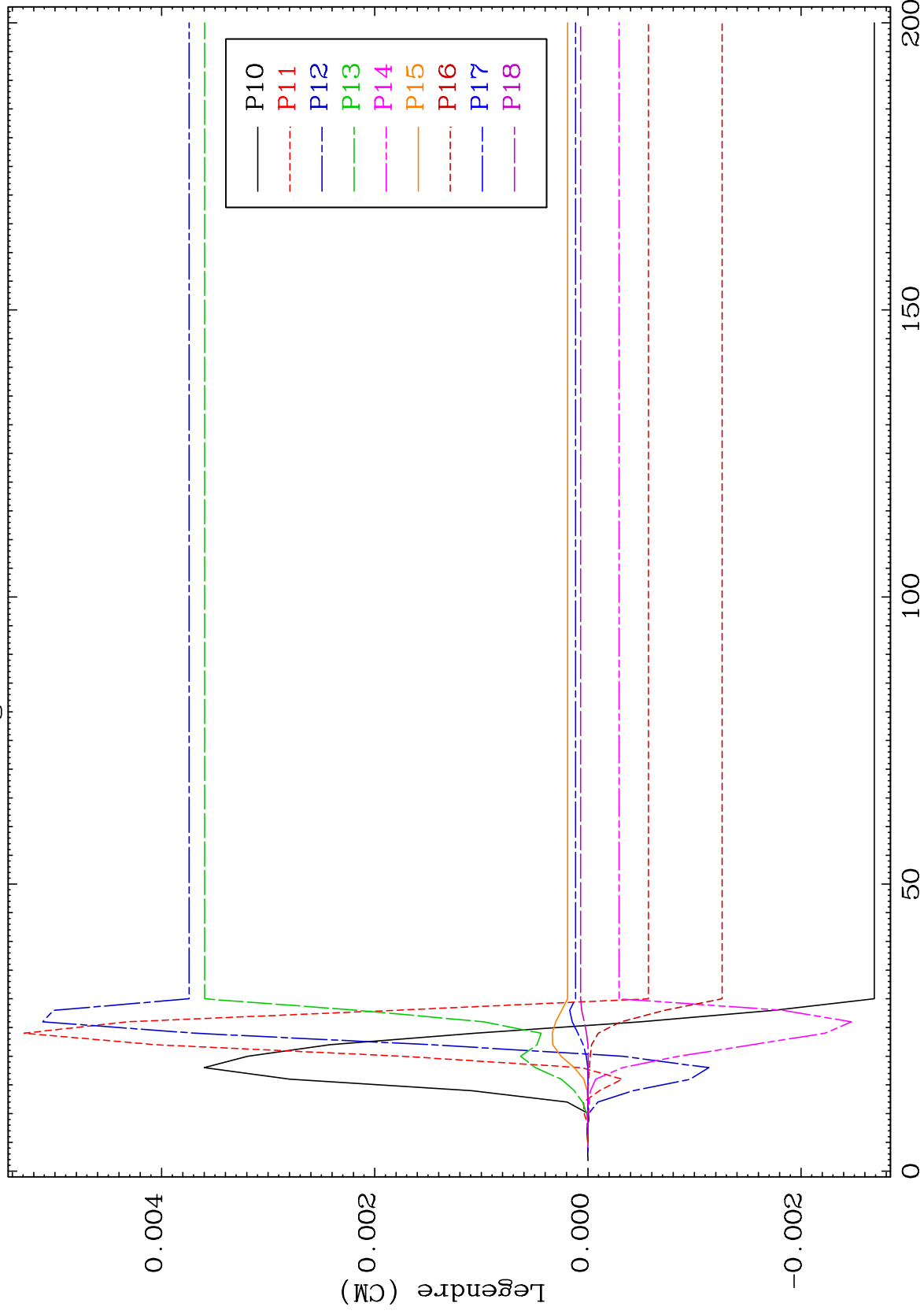
Incident Energy (MeV)

63-Eu-139

MAT 6289

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

63-Eu-139



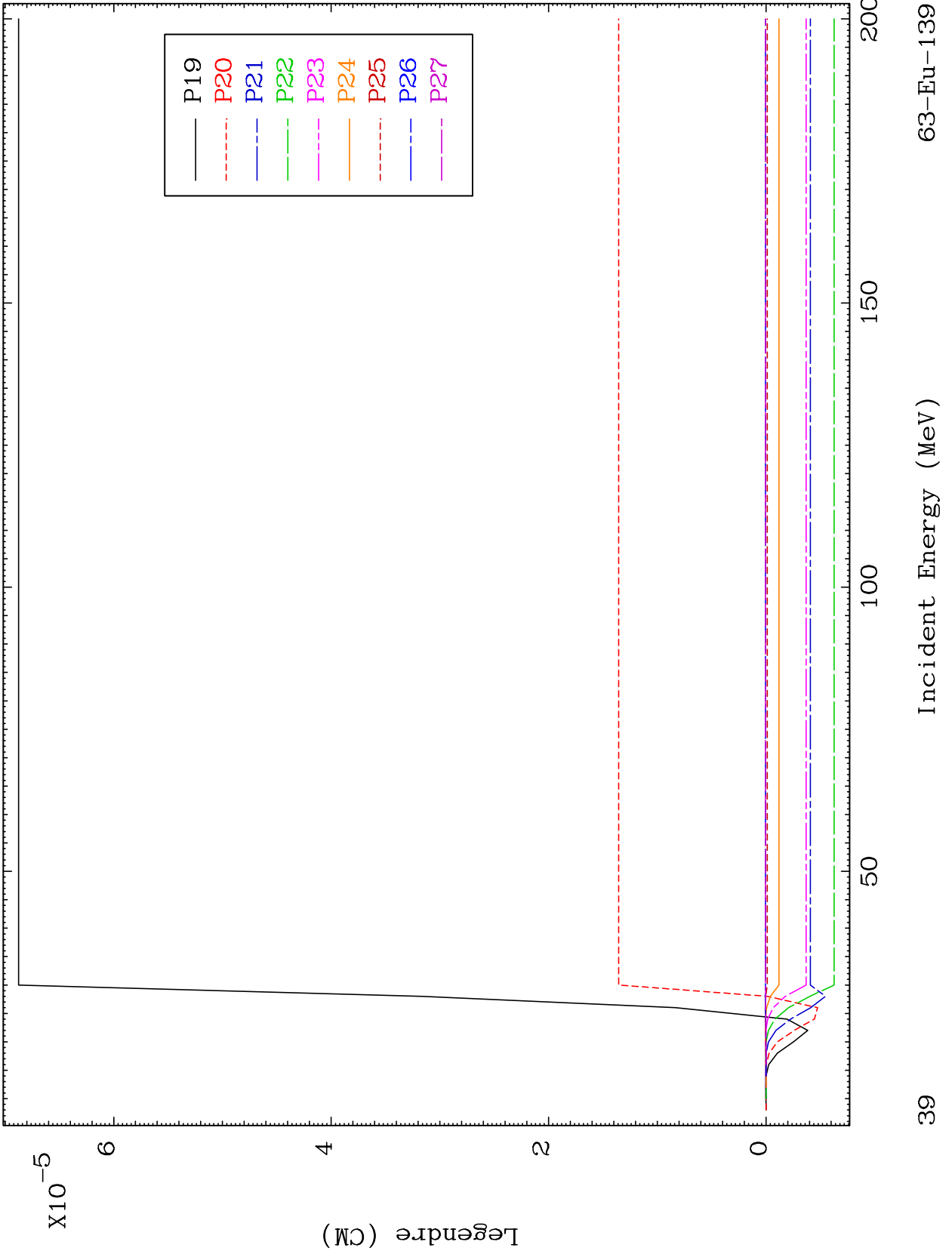
38

63-Eu-139

MAT 6289

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

63-Eu-139

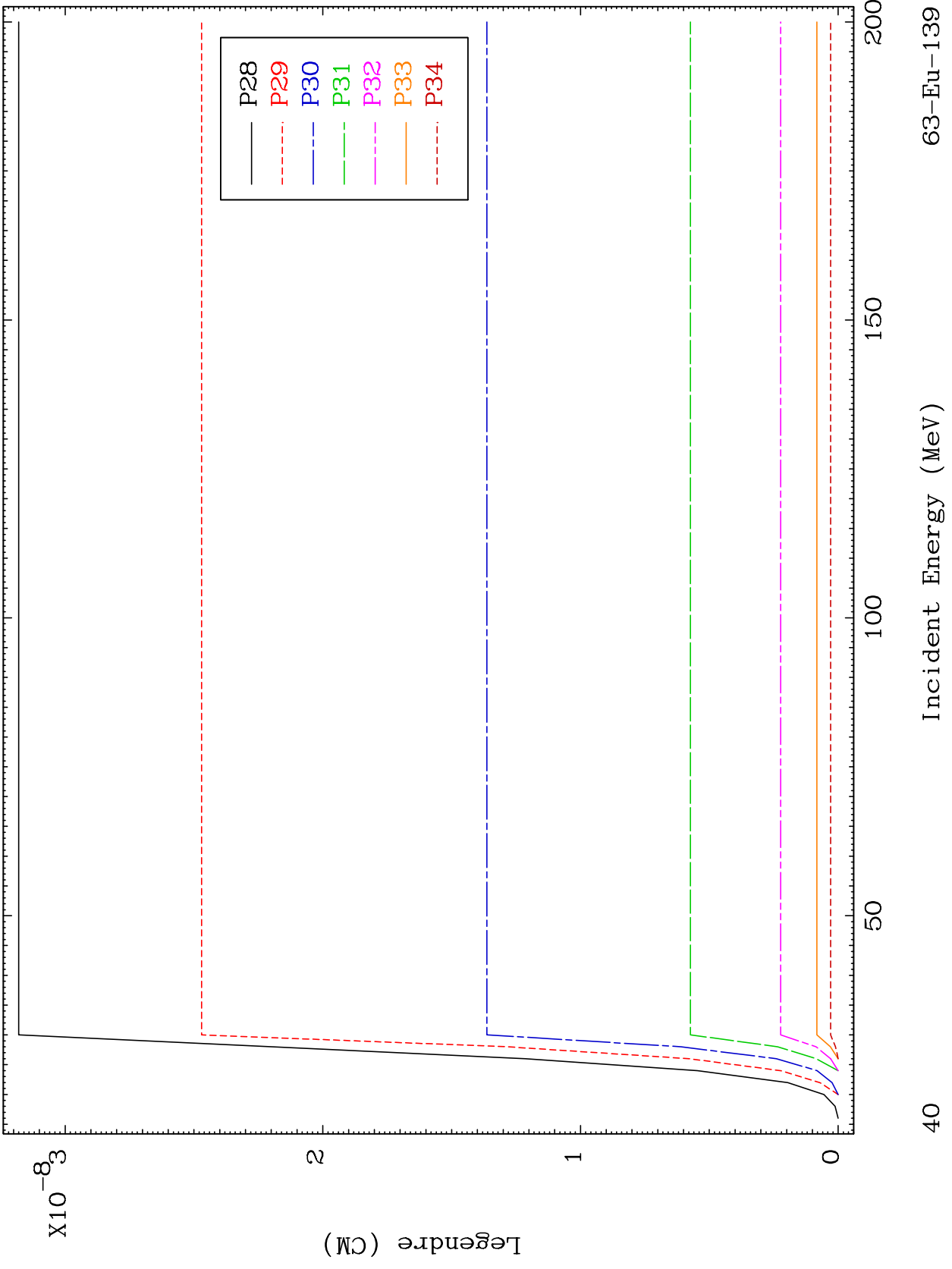


39

MAT 6289

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

63-Eu-139

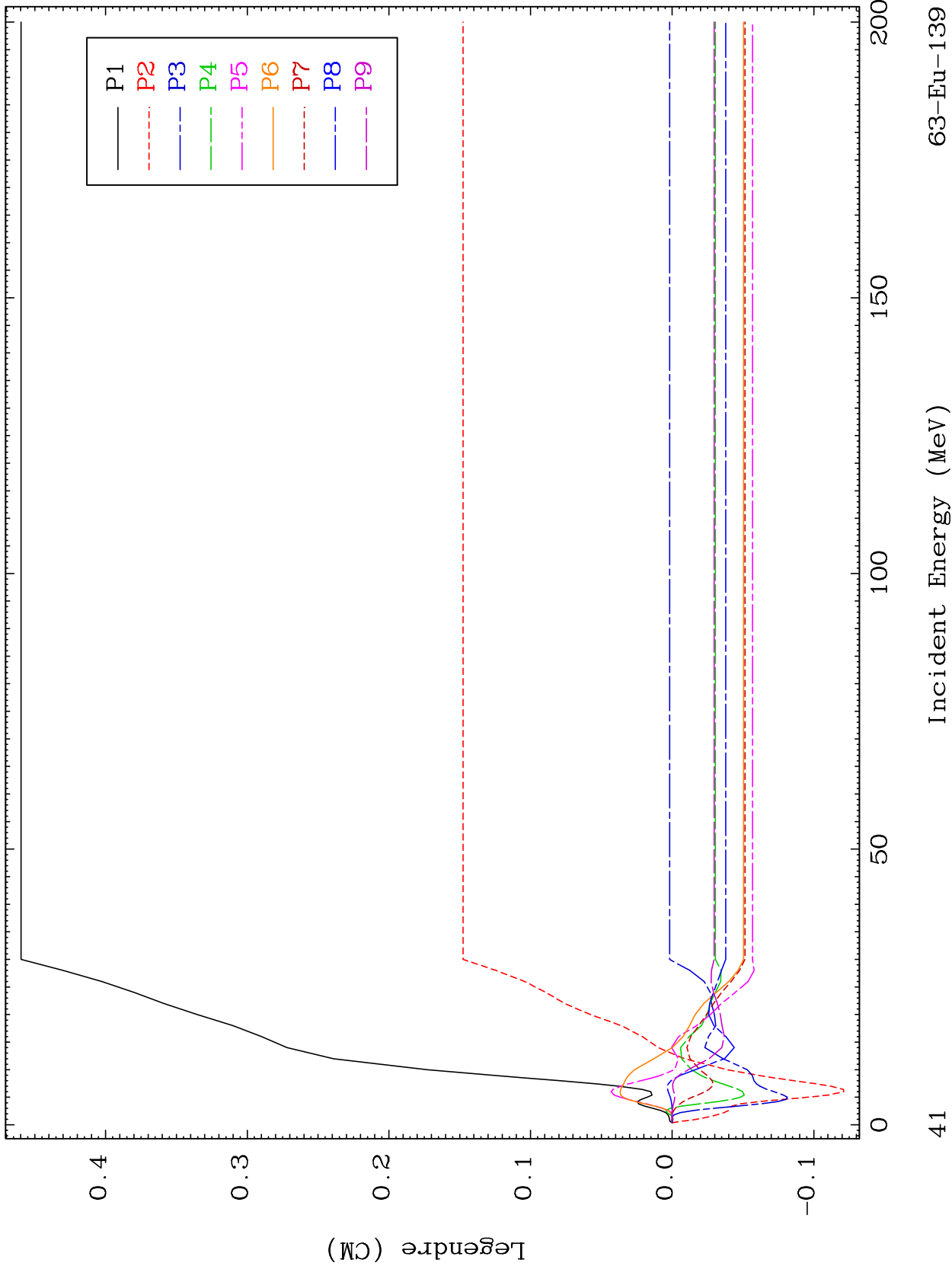


63-Eu-139

MAT 6289

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

63-Eu-139



41

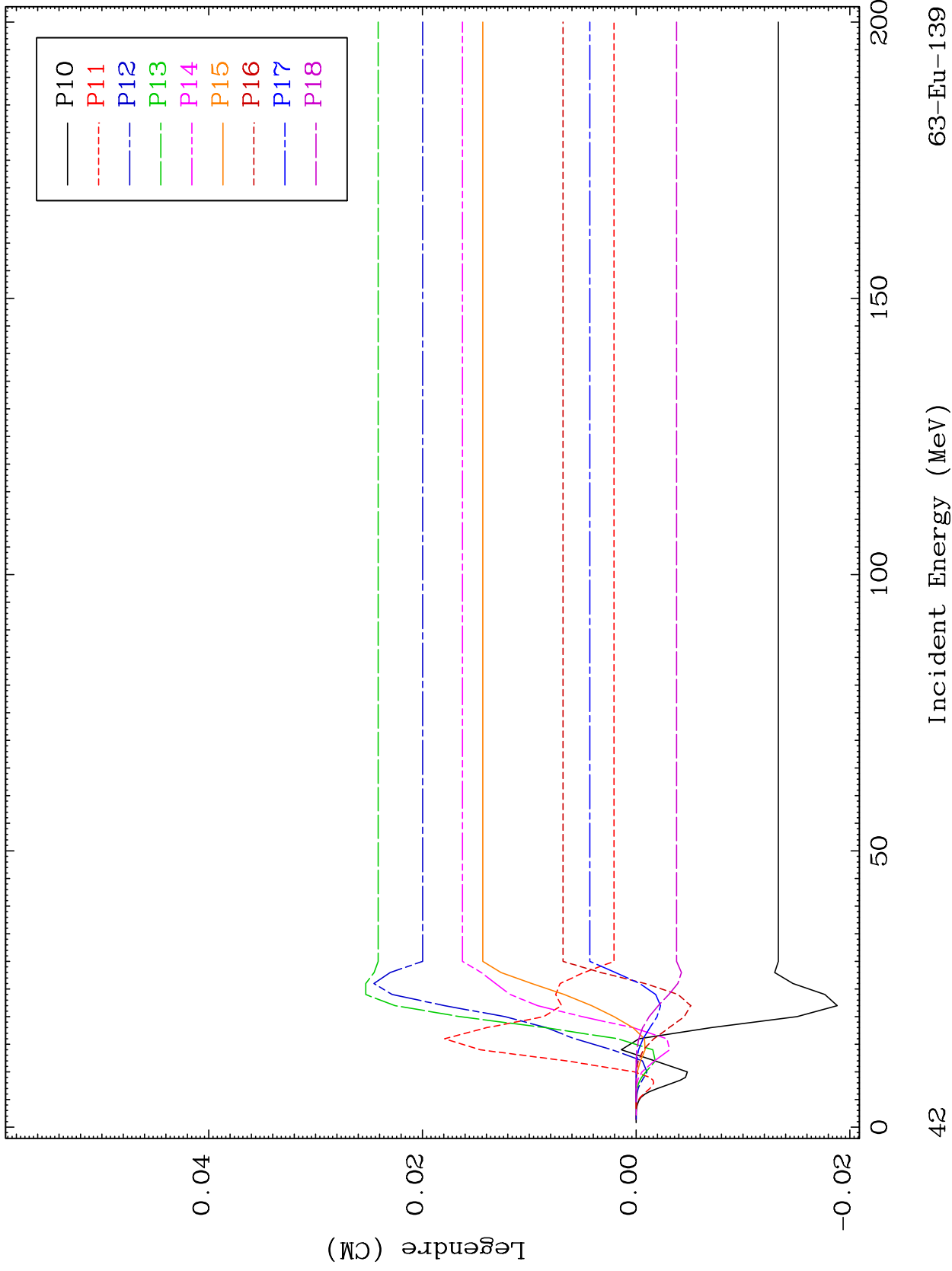
Incident Energy (MeV)

63-Eu-139

MAT 6289

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

63-Eu-139



63-Eu-139

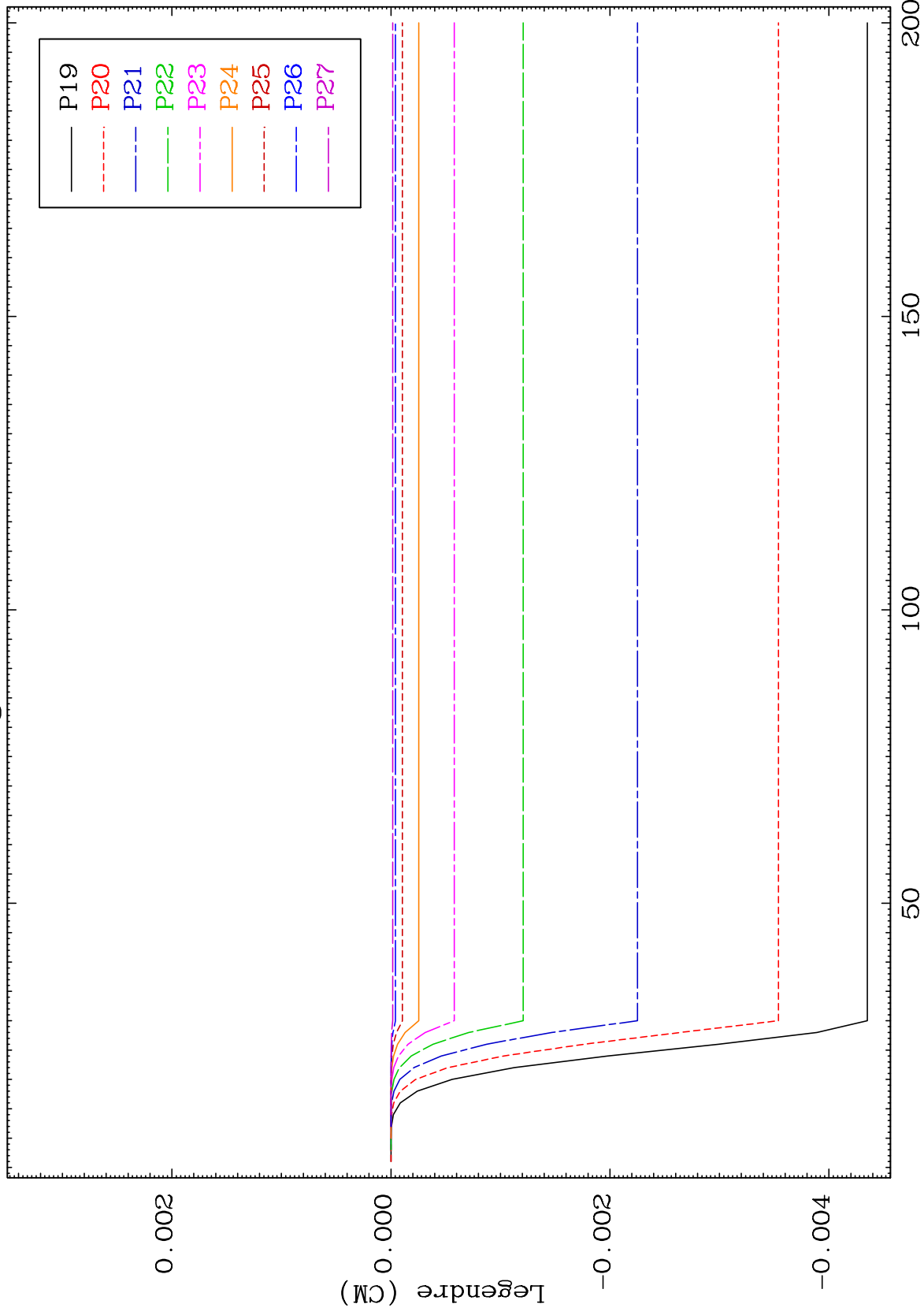
Incident Energy (MeV)

42

MAT 6289

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

63-Eu-139



43

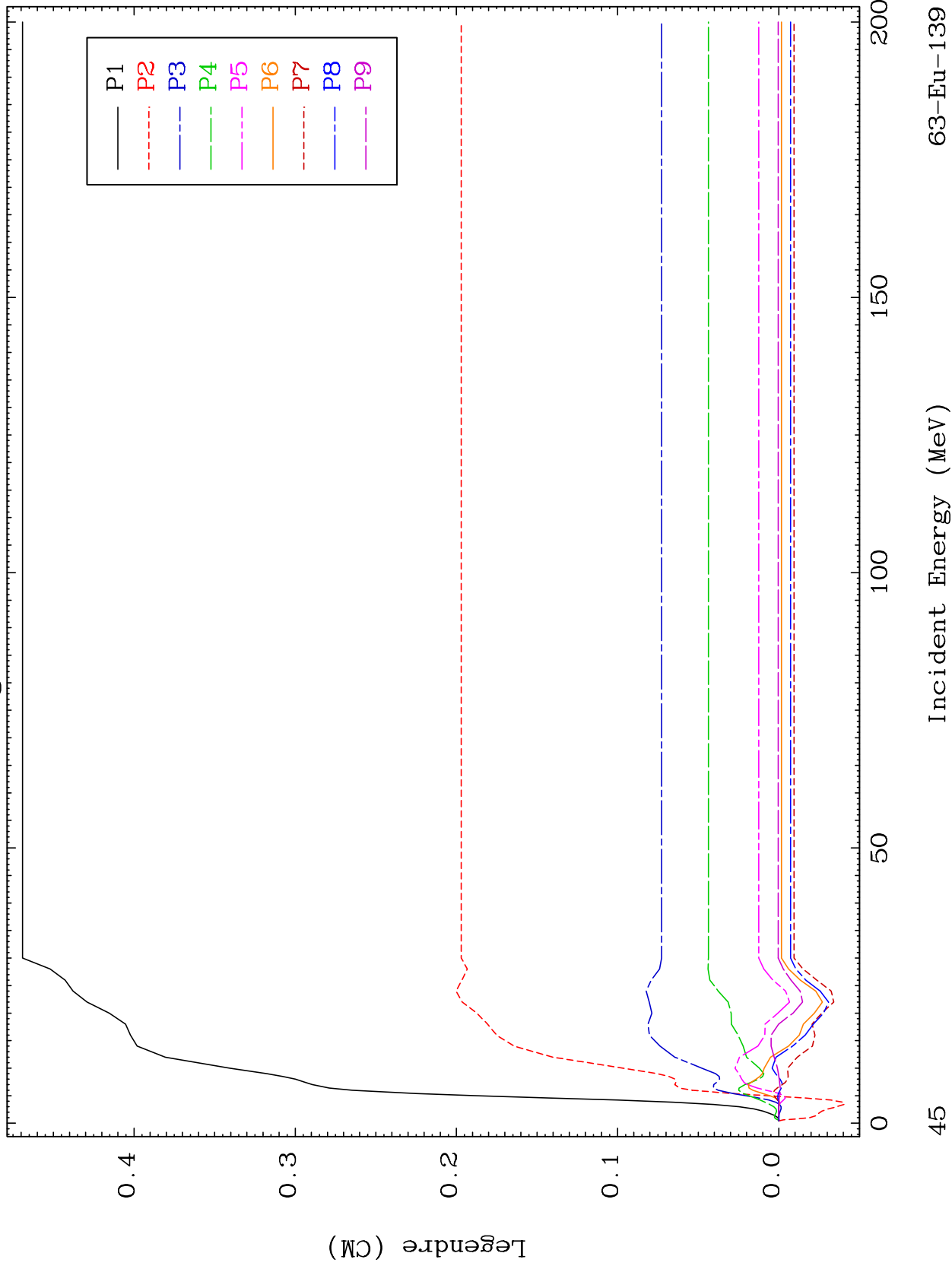
Incident Energy (MeV)

63-Eu-139

MAT 6289

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

63-Eu-139



63-Eu-139

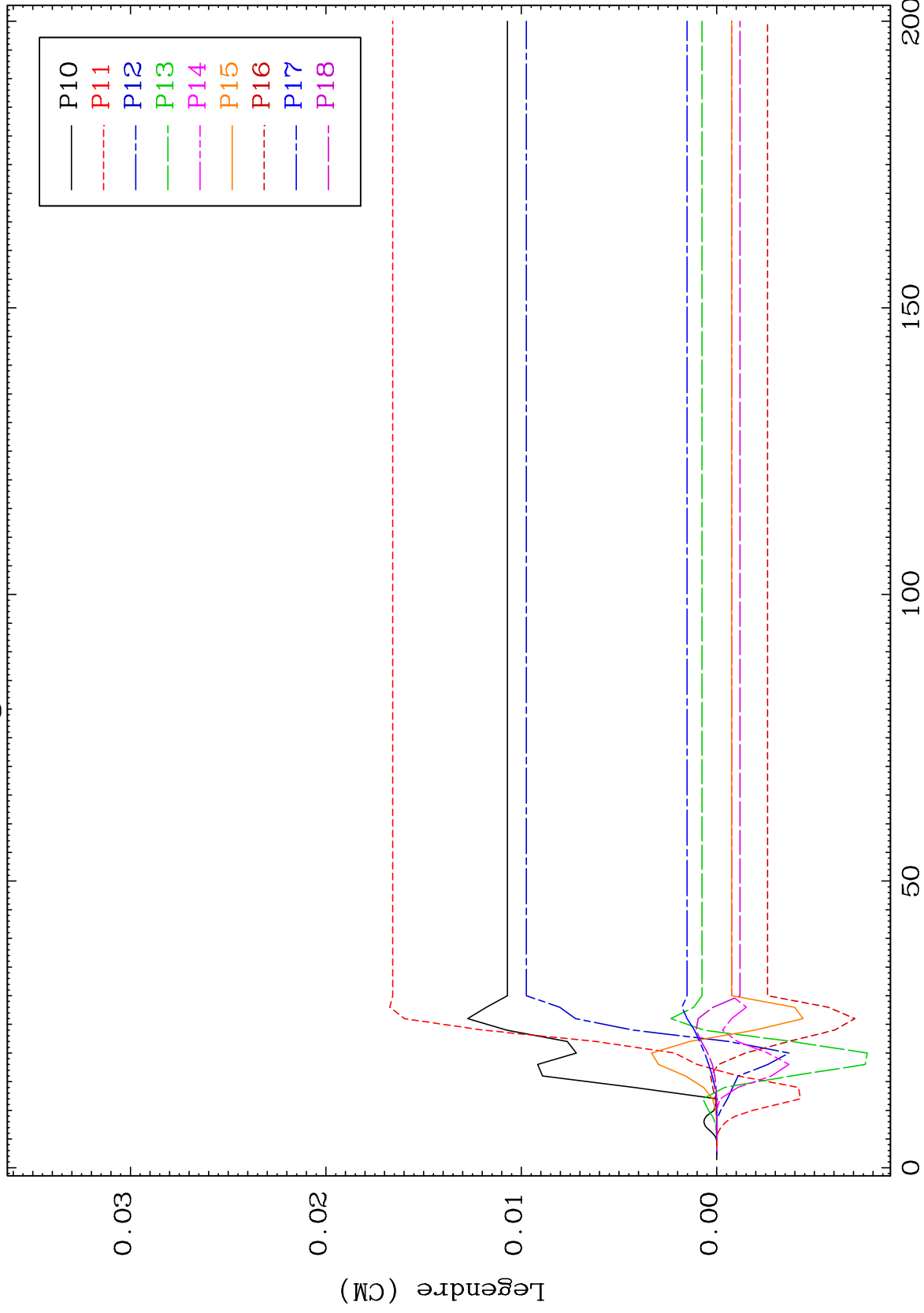
Incident Energy (MeV)

45

MAT 6289

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

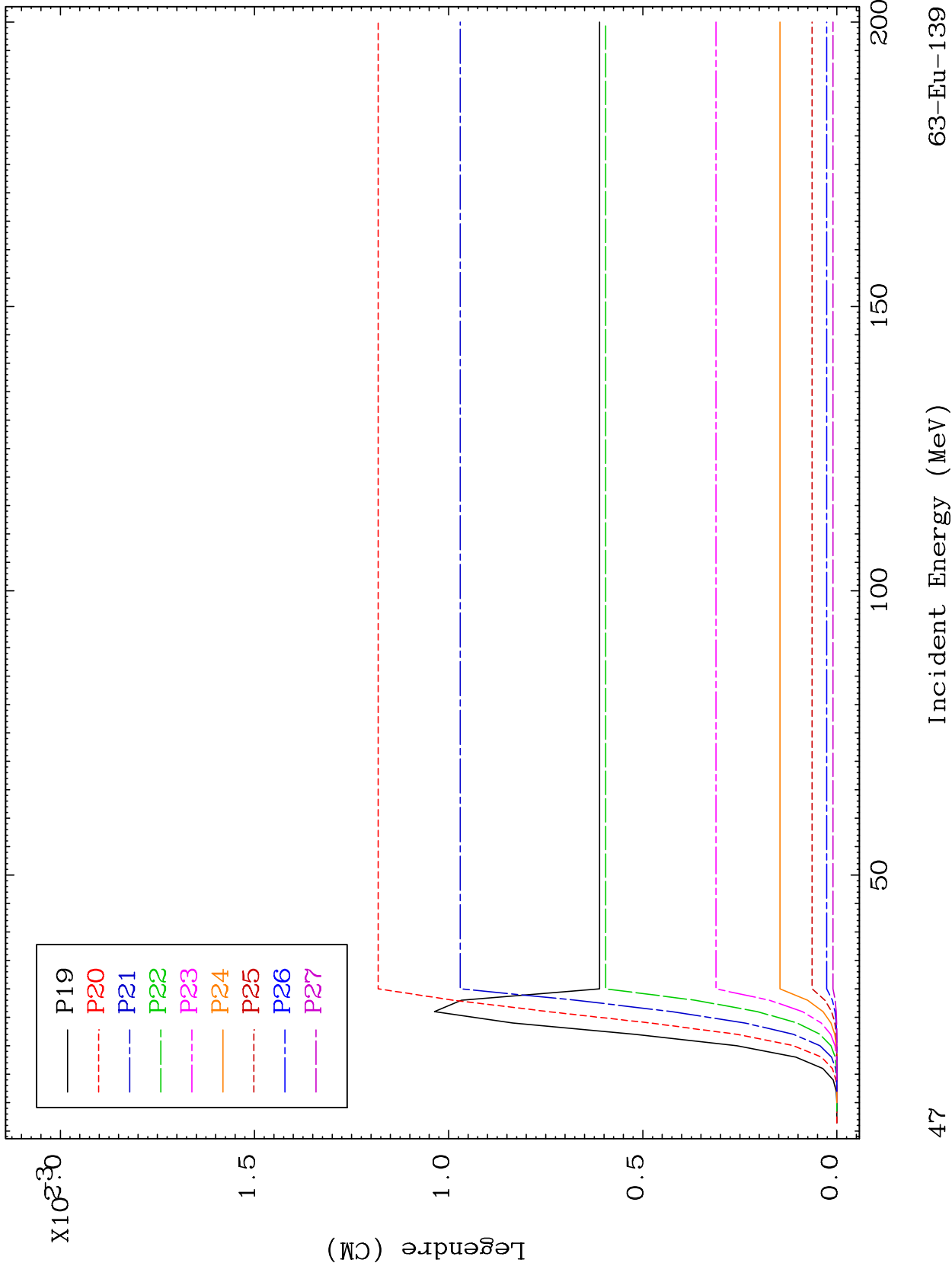
63-Eu-139



46

Incident Energy (MeV)

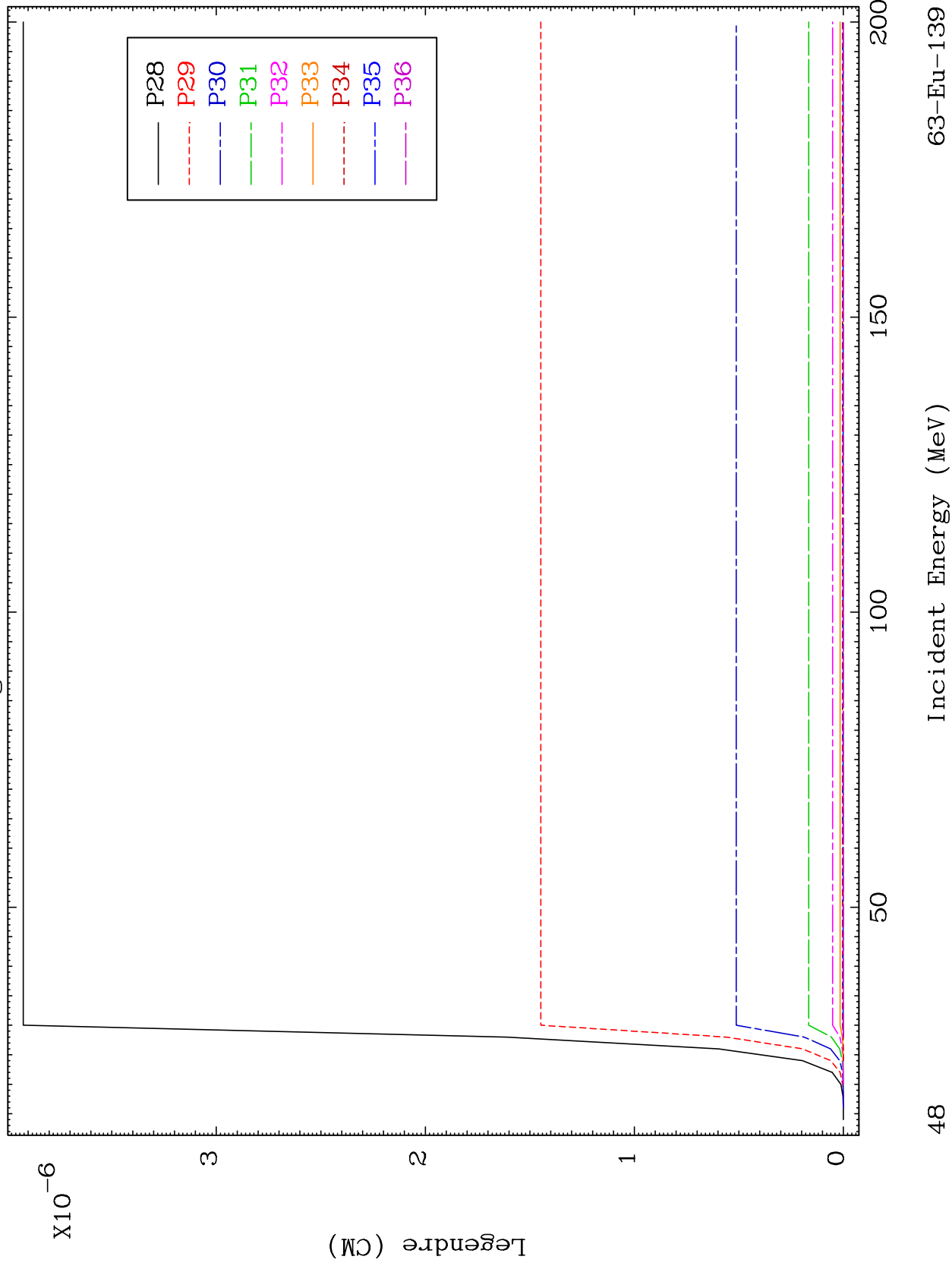
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MAT 6289

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

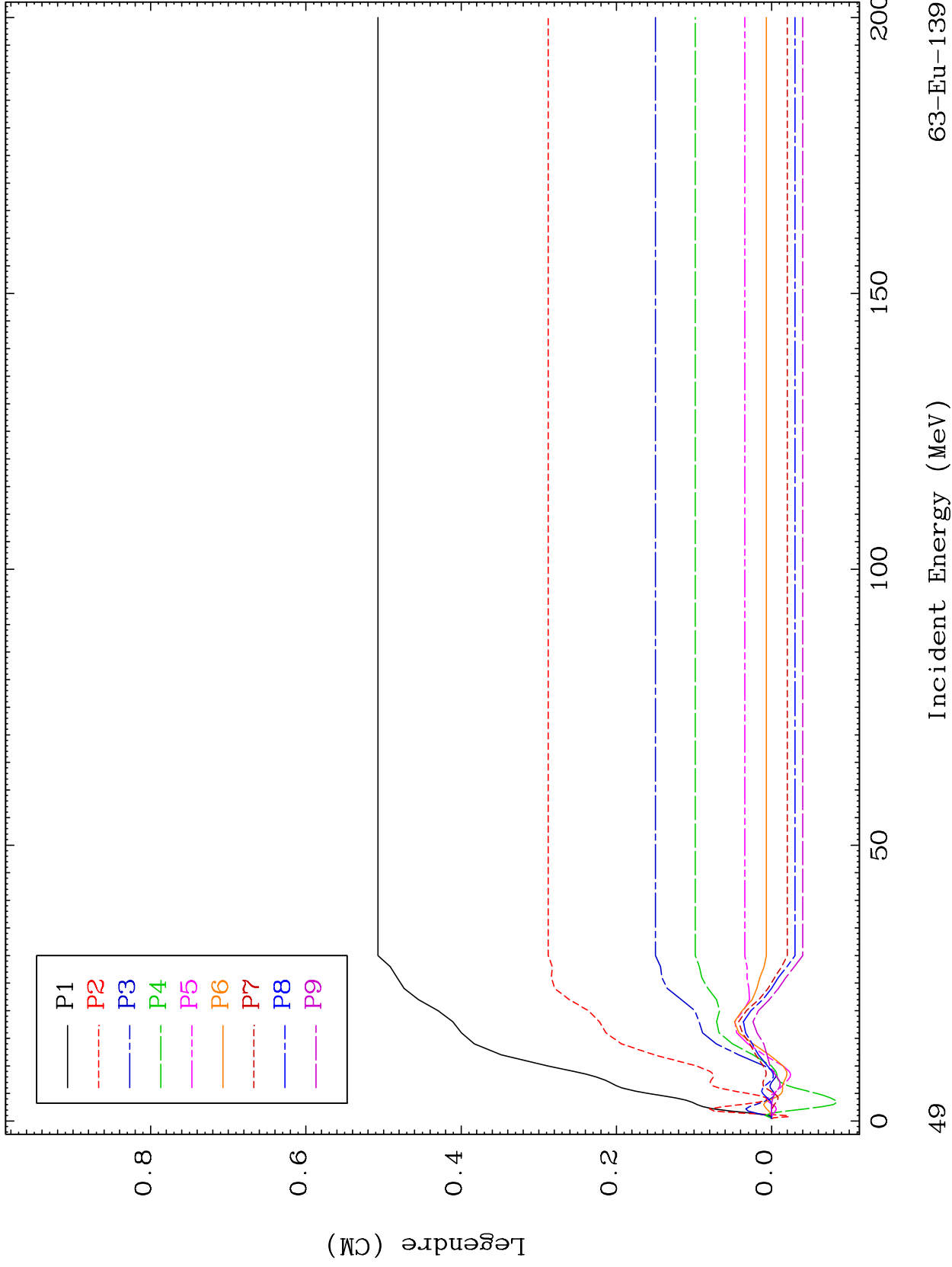
63-Eu-139



MAT 6289

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

63-Eu-139



49

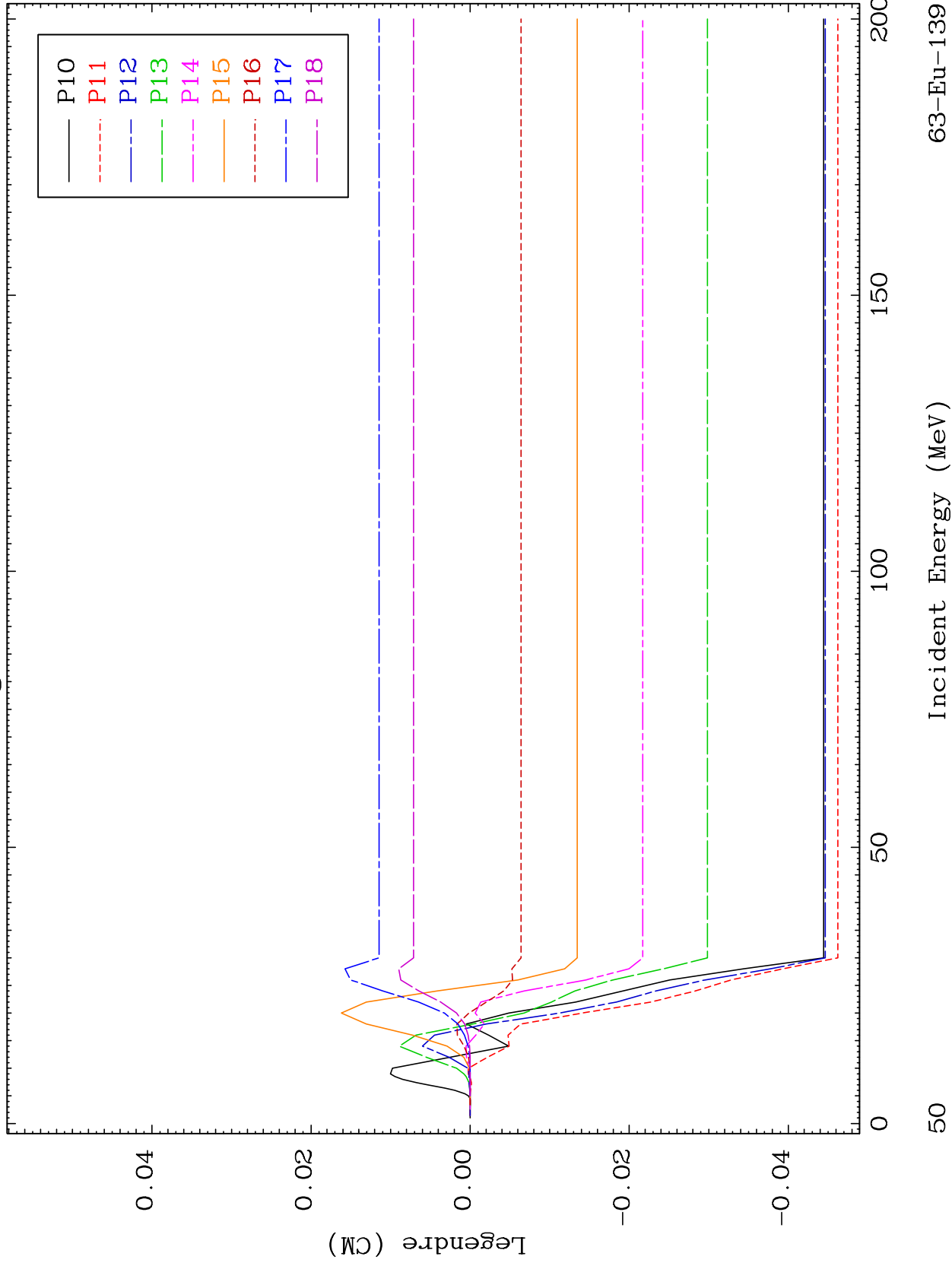
Incident Energy (MeV)

63-Eu-139

MAT 6289

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

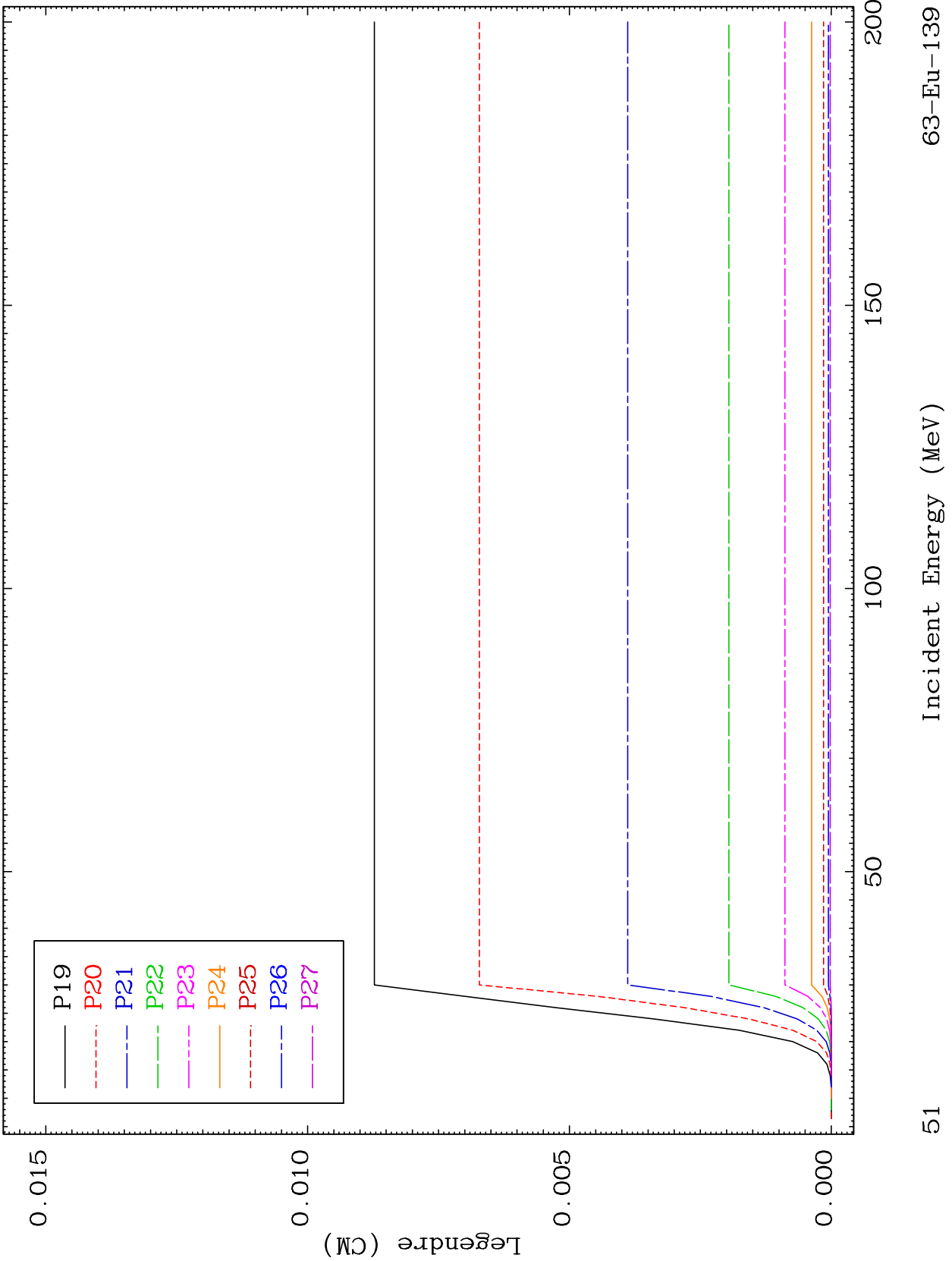
63-Eu-139



63-Eu-139

Incident Energy (MeV)

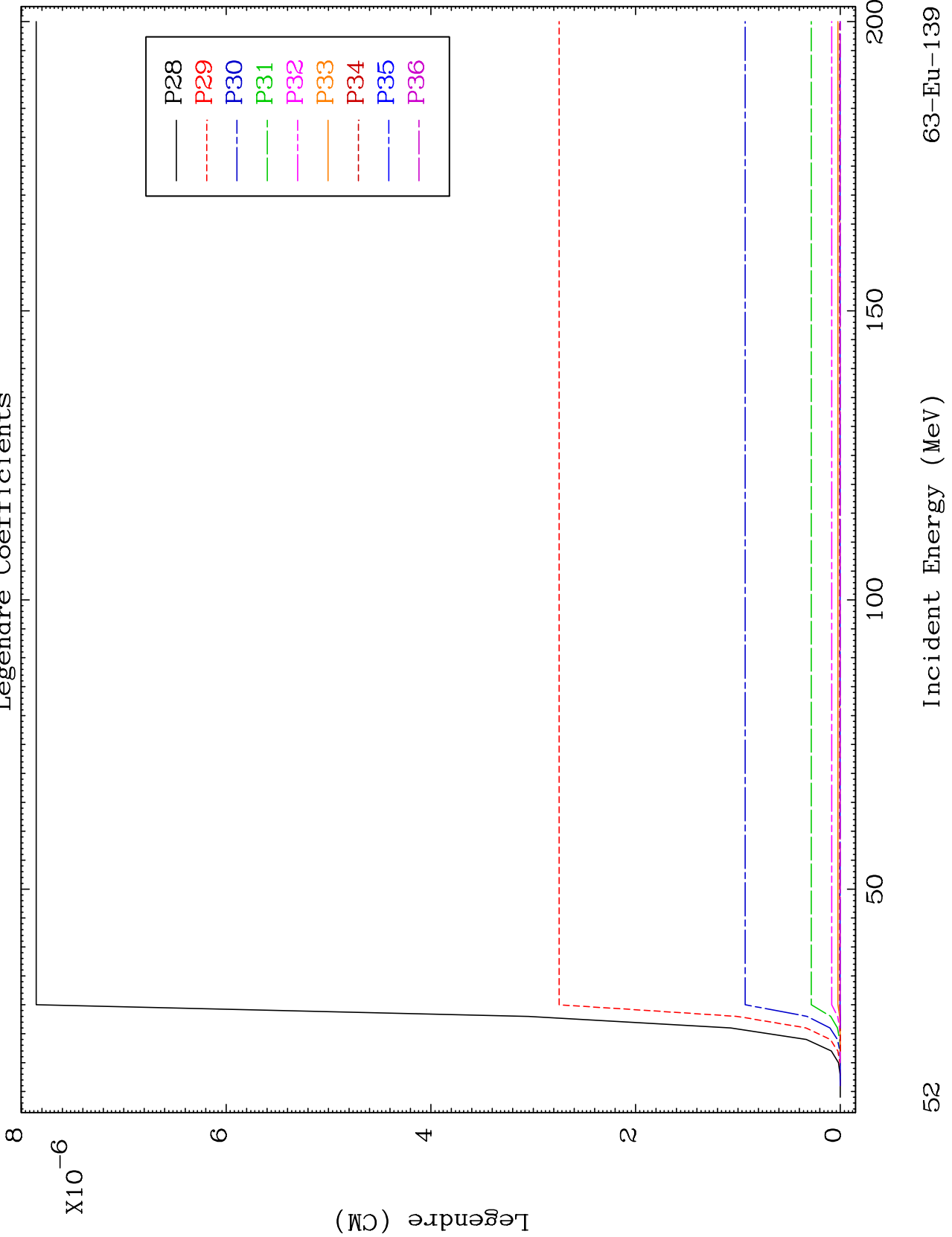
50



MAT 6289

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

63-Eu-139



63-Eu-139

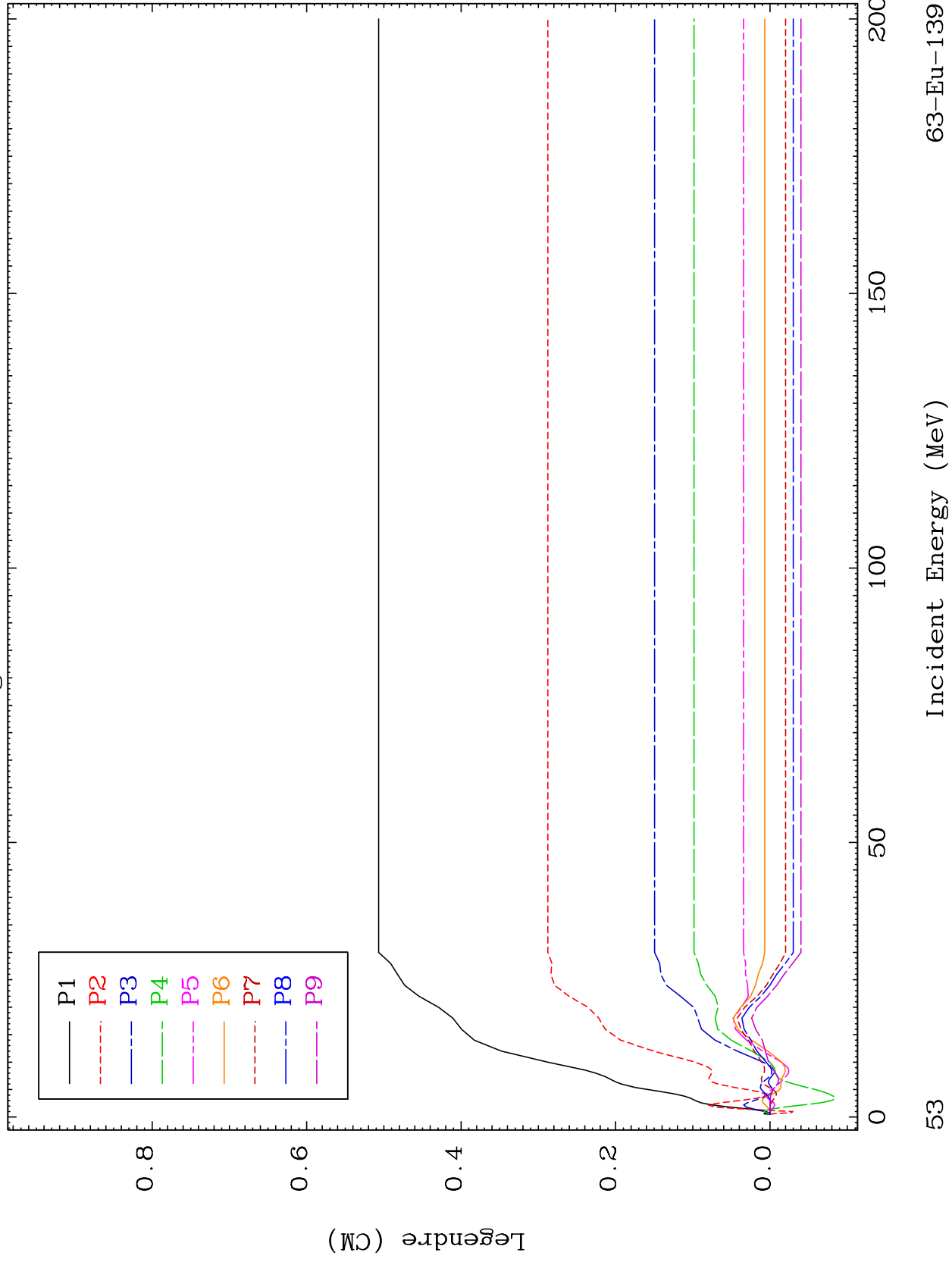
Incident Energy (MeV)

52

MAT 6289

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

63-Eu-139



63-Eu-139

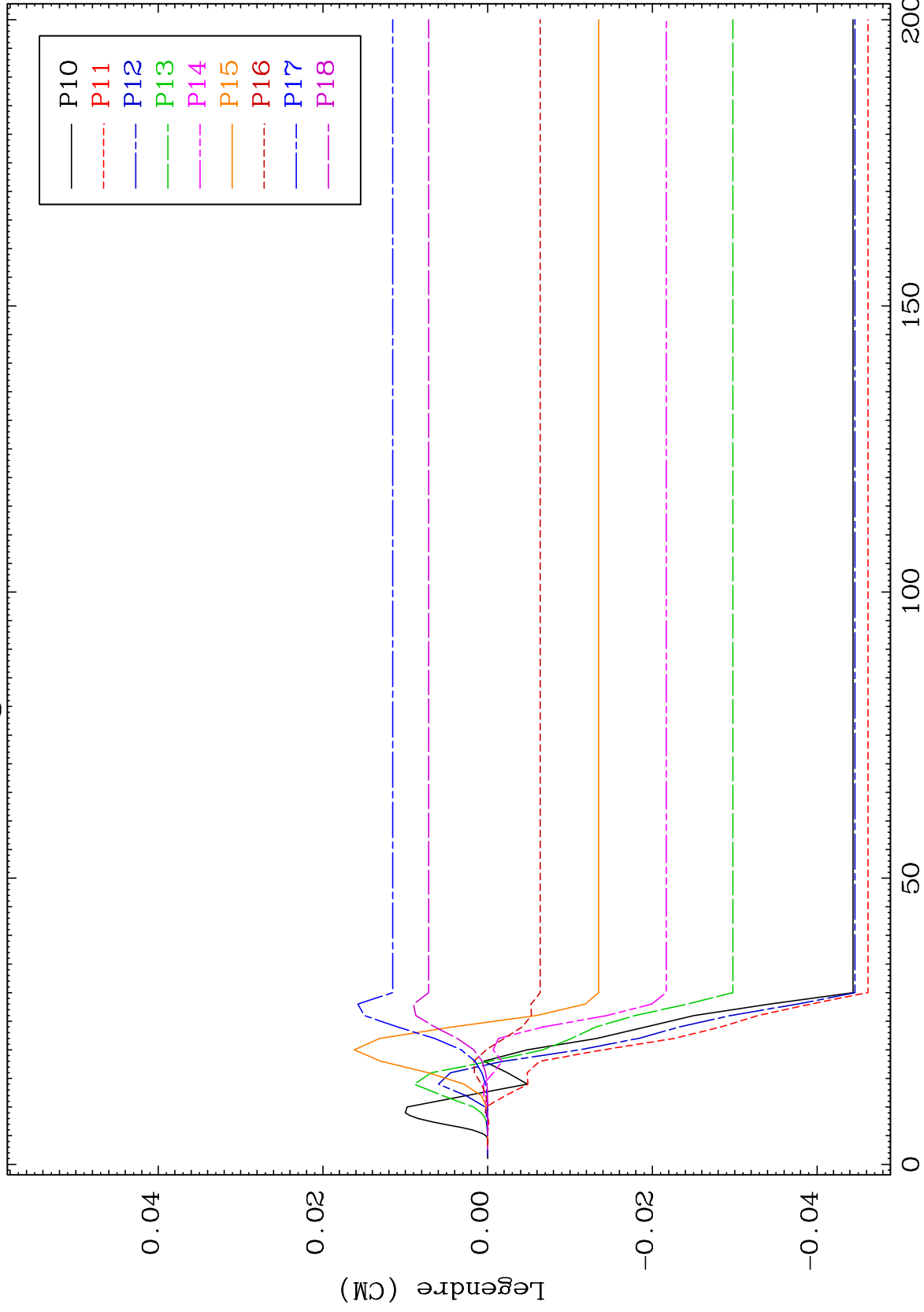
Incident Energy (MeV)

53

MAT 6289

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

63-Eu-139



54

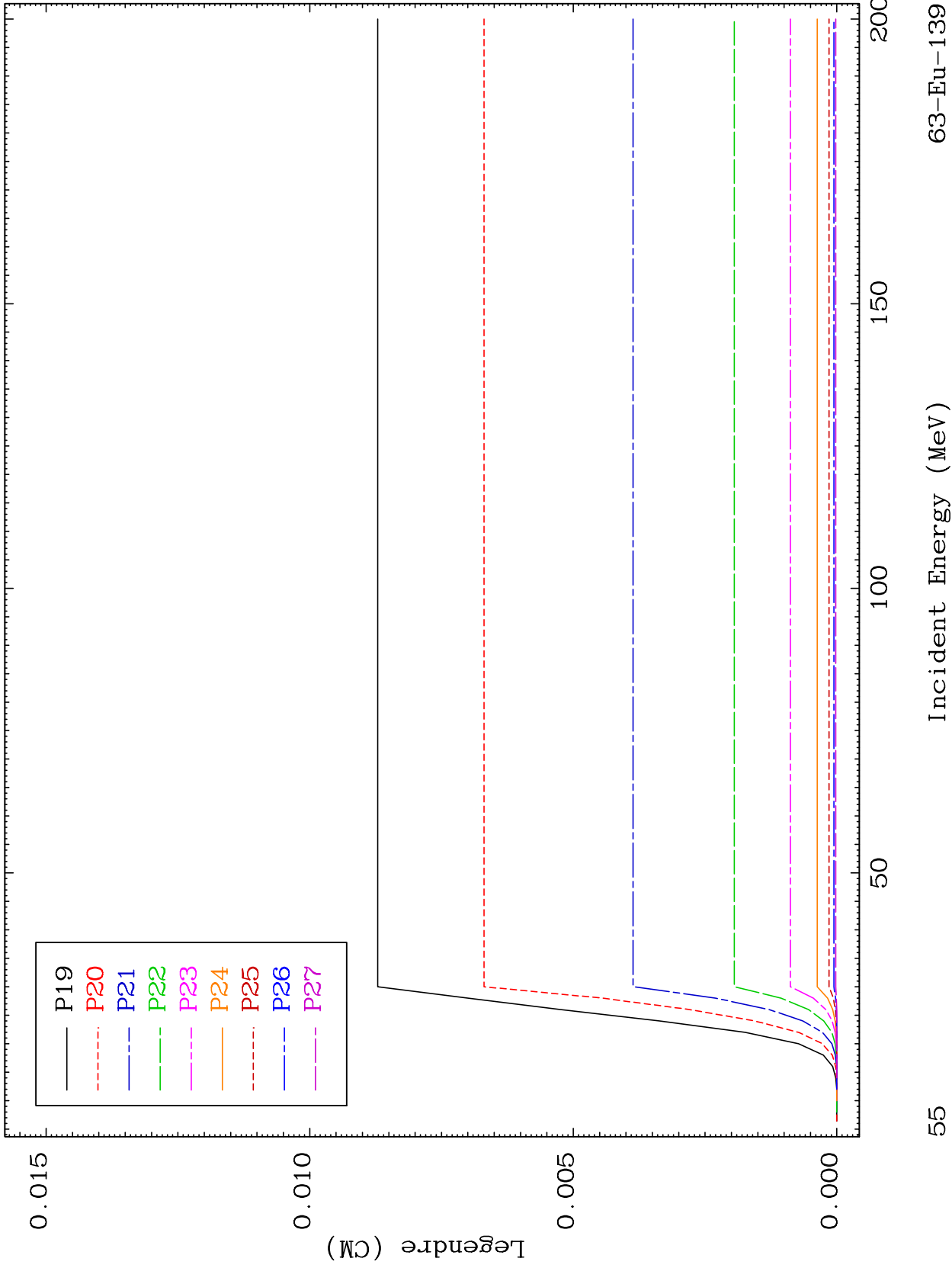
Incident Energy (MeV)

63-Eu-139

MAT 6289

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

63-Eu-139



55

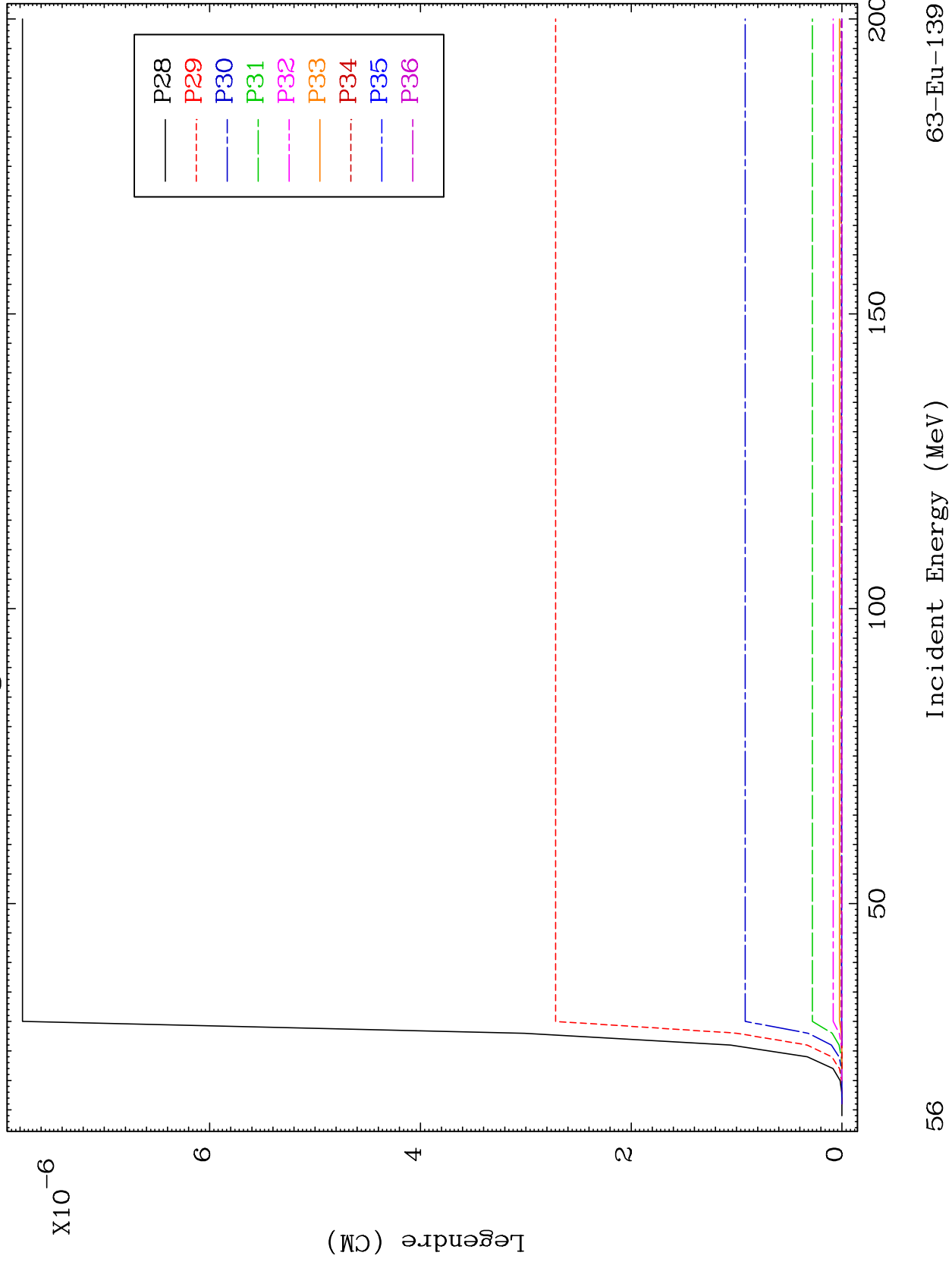
Incident Energy (MeV)

63-Eu-139

MAT 6289

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

63-Eu-139



56

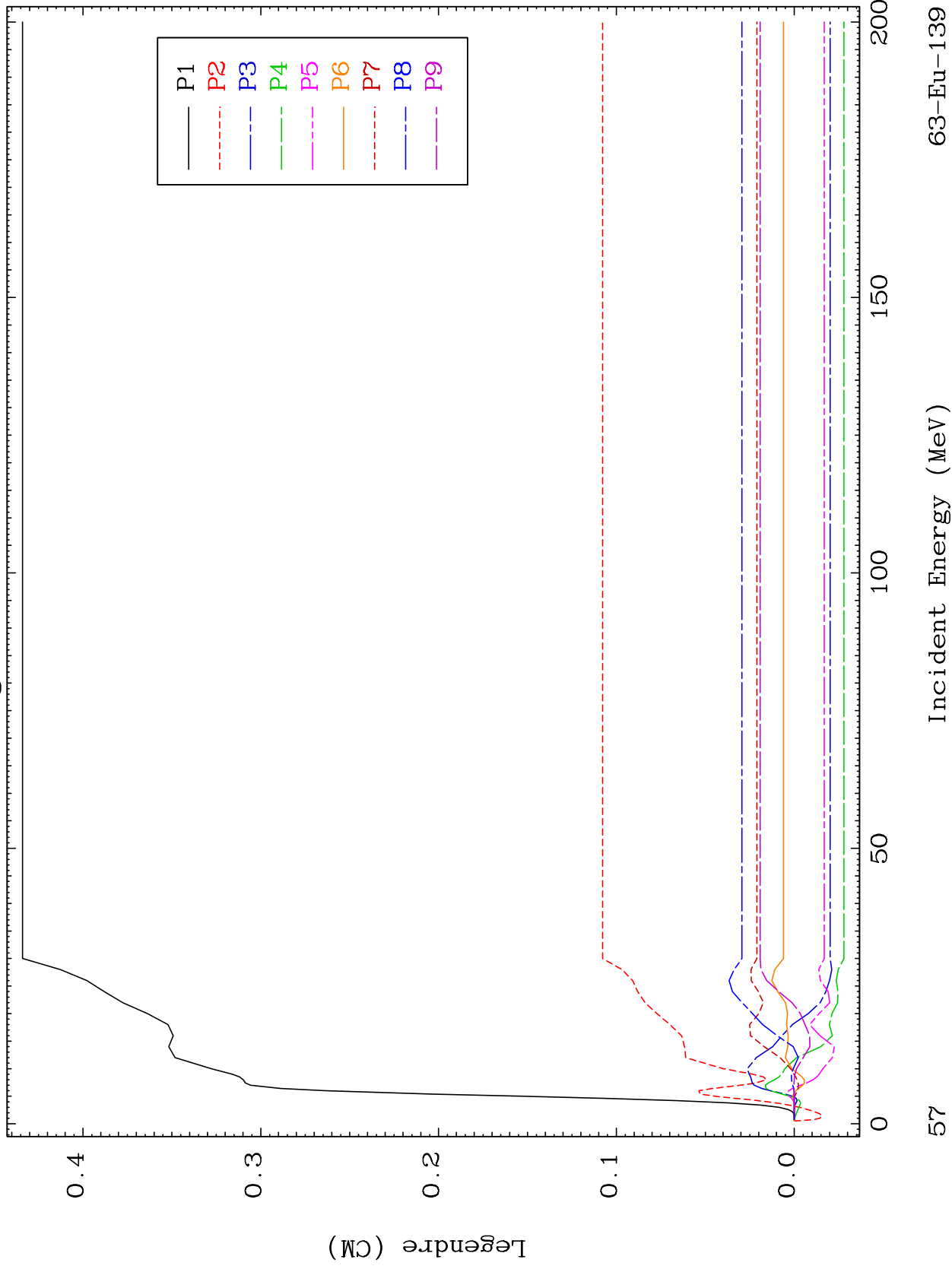
Incident Energy (MeV)

63-Eu-139

MAT 6289

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

63-Eu-139



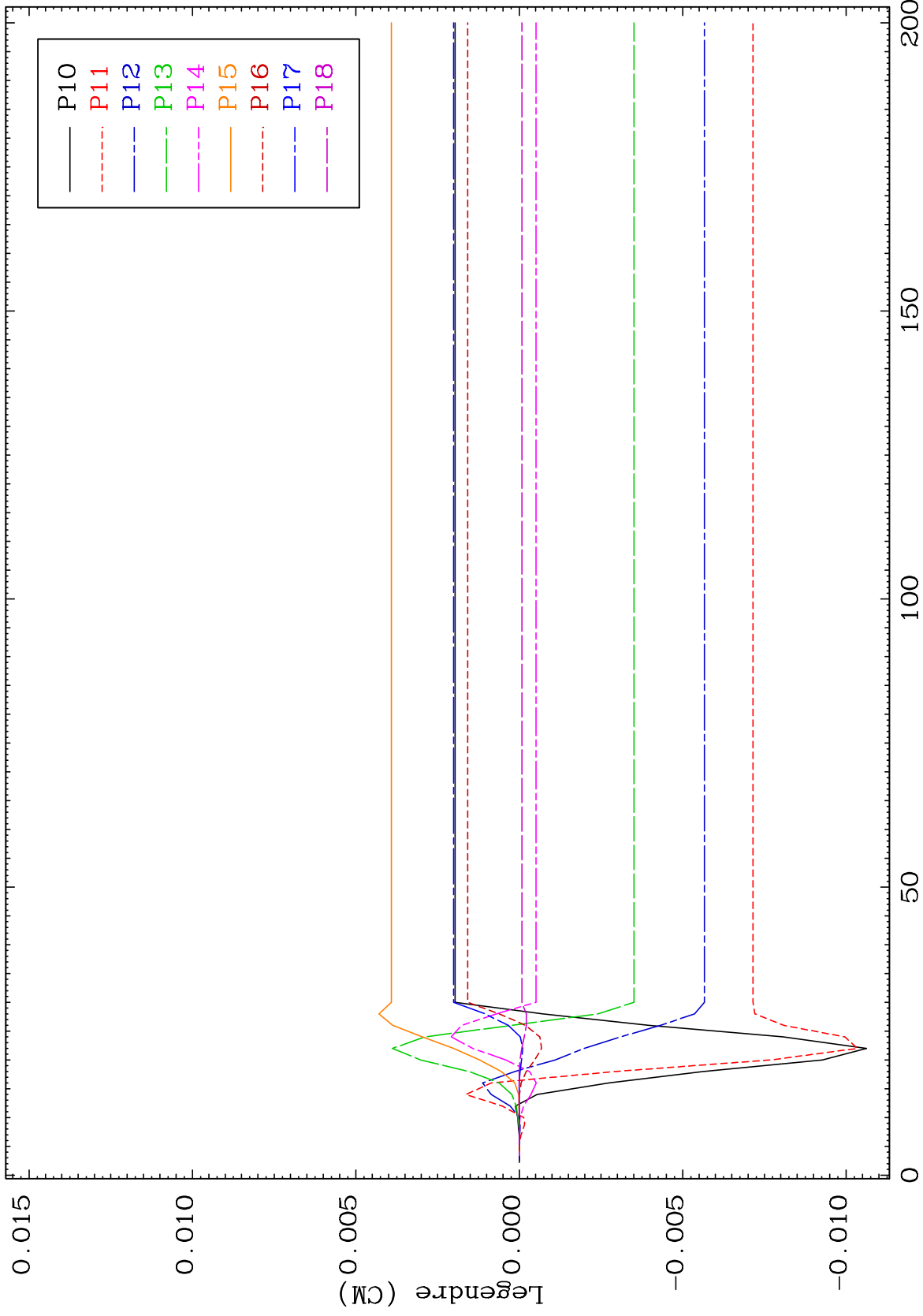
57

63-Eu-139

MAT 6289

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

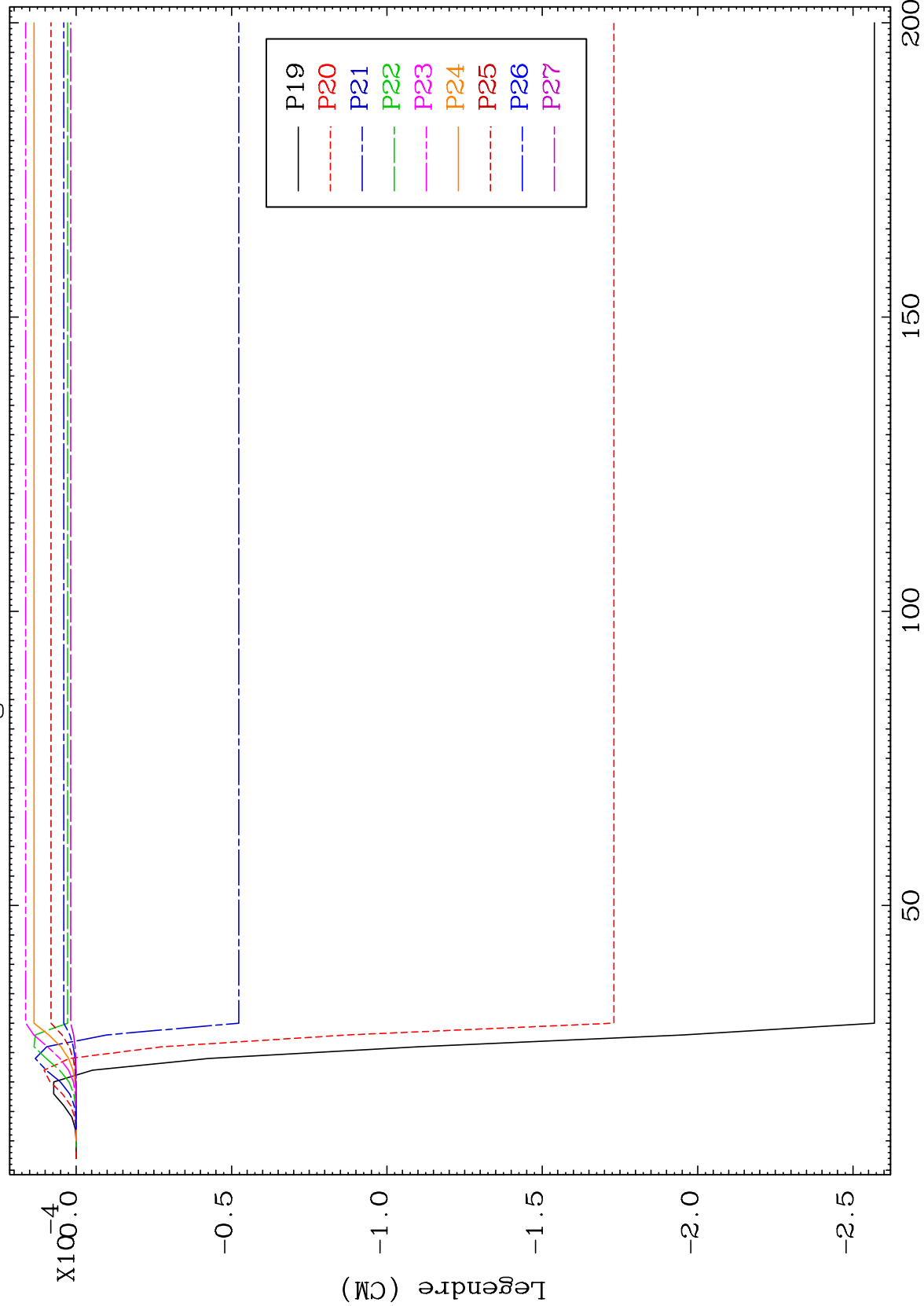
63-Eu-139



58

Incident Energy (MeV)

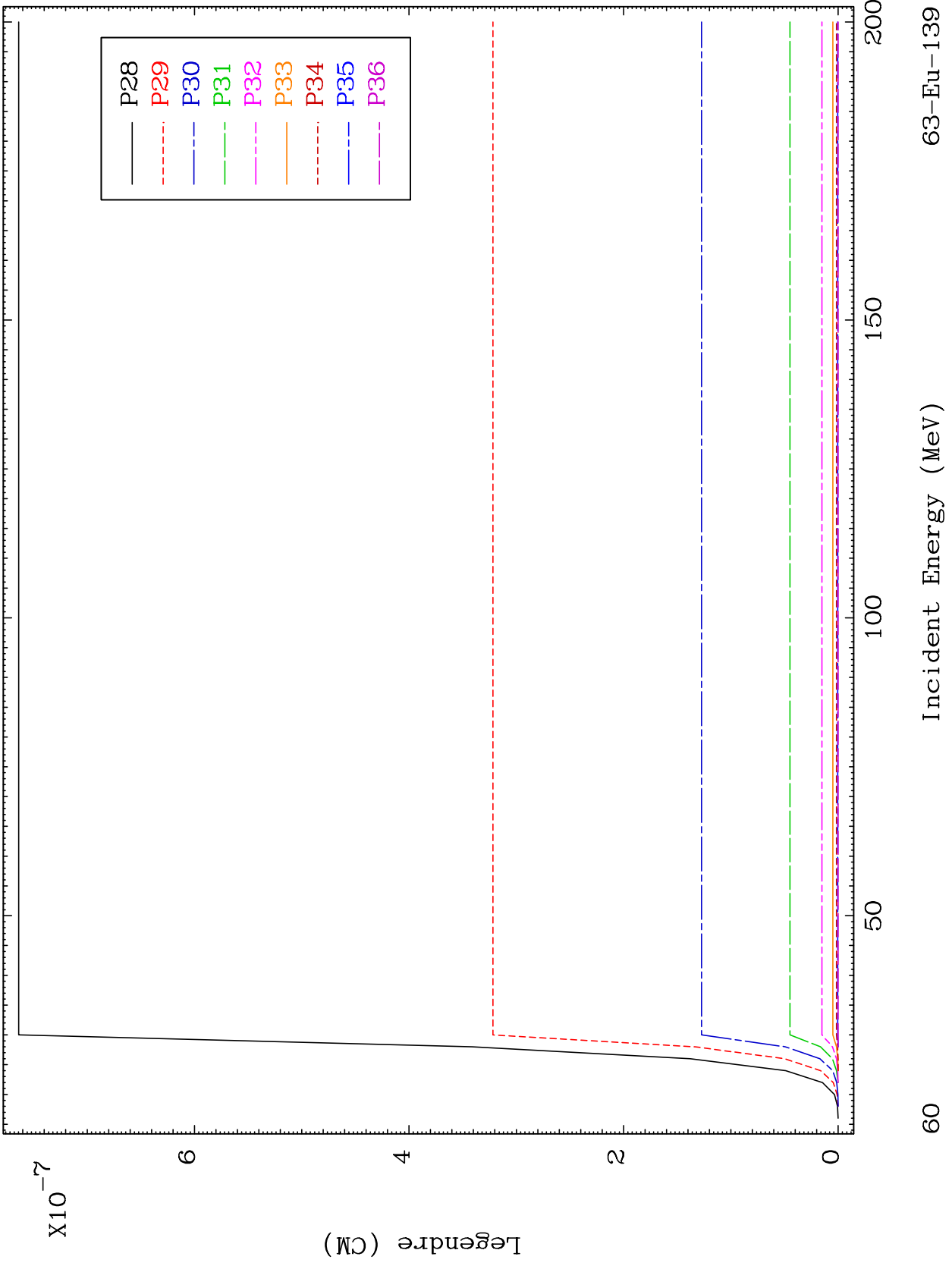
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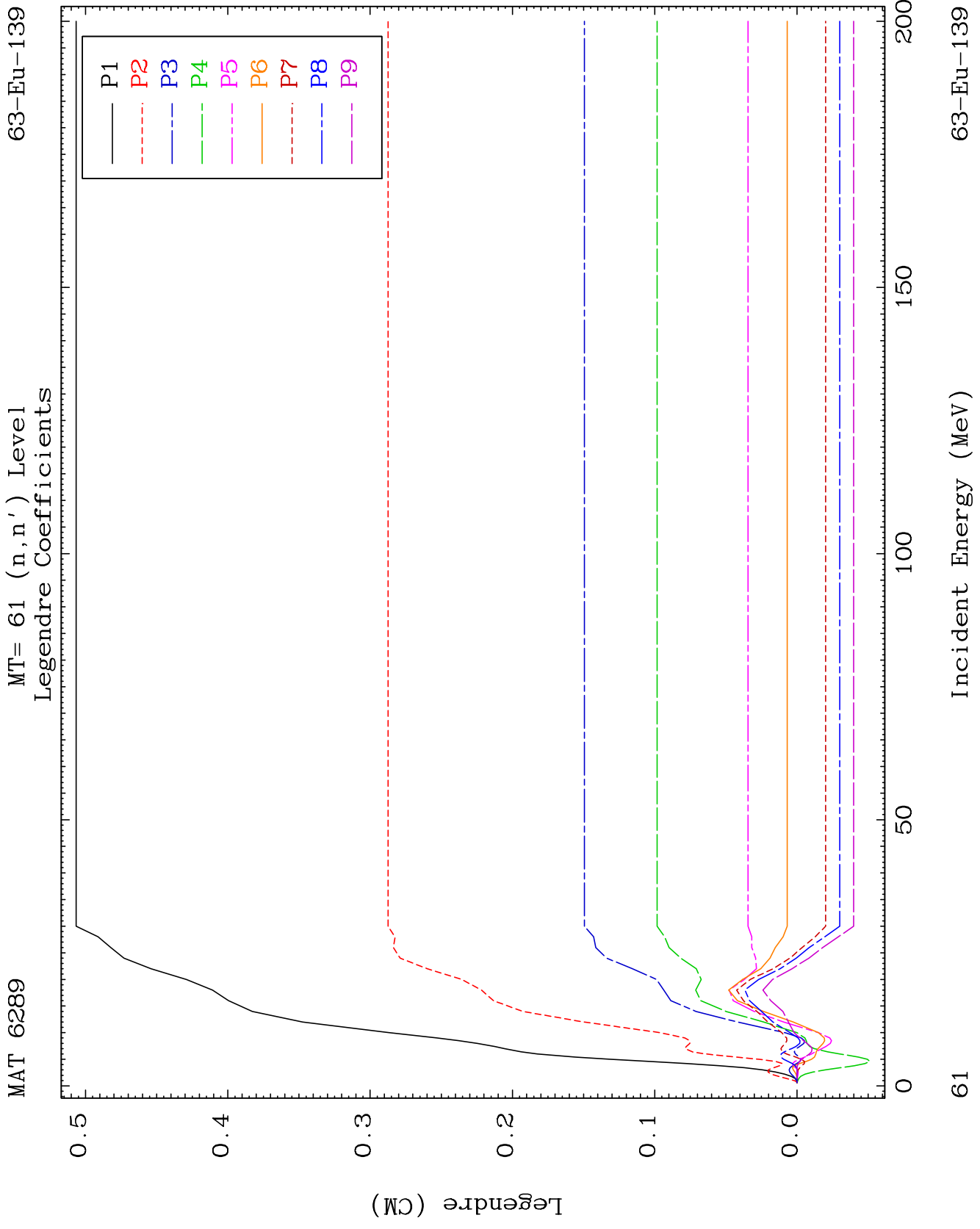


MAT 6289

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

63-Eu-139

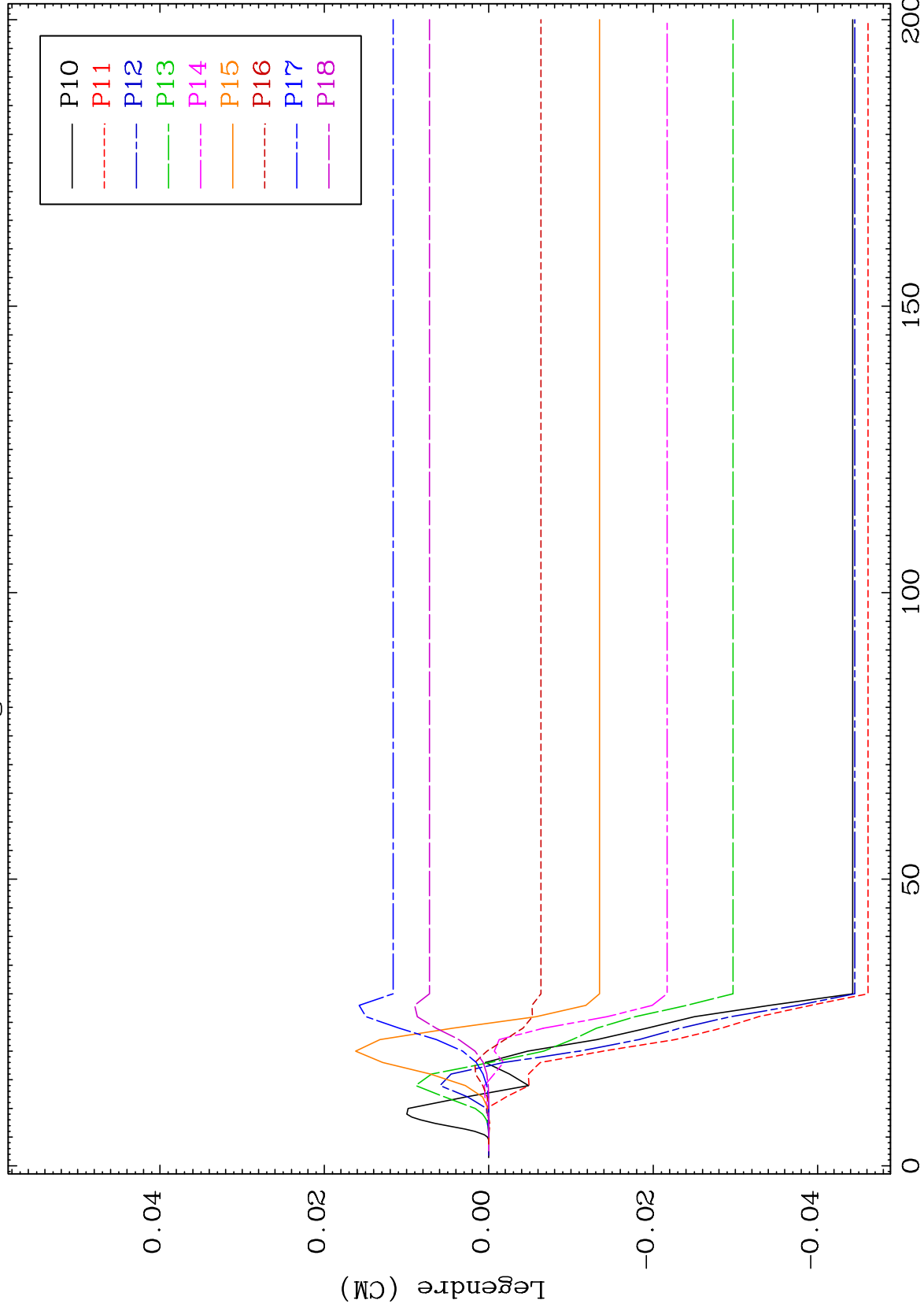




MAT 6289

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

63-Eu-139



62

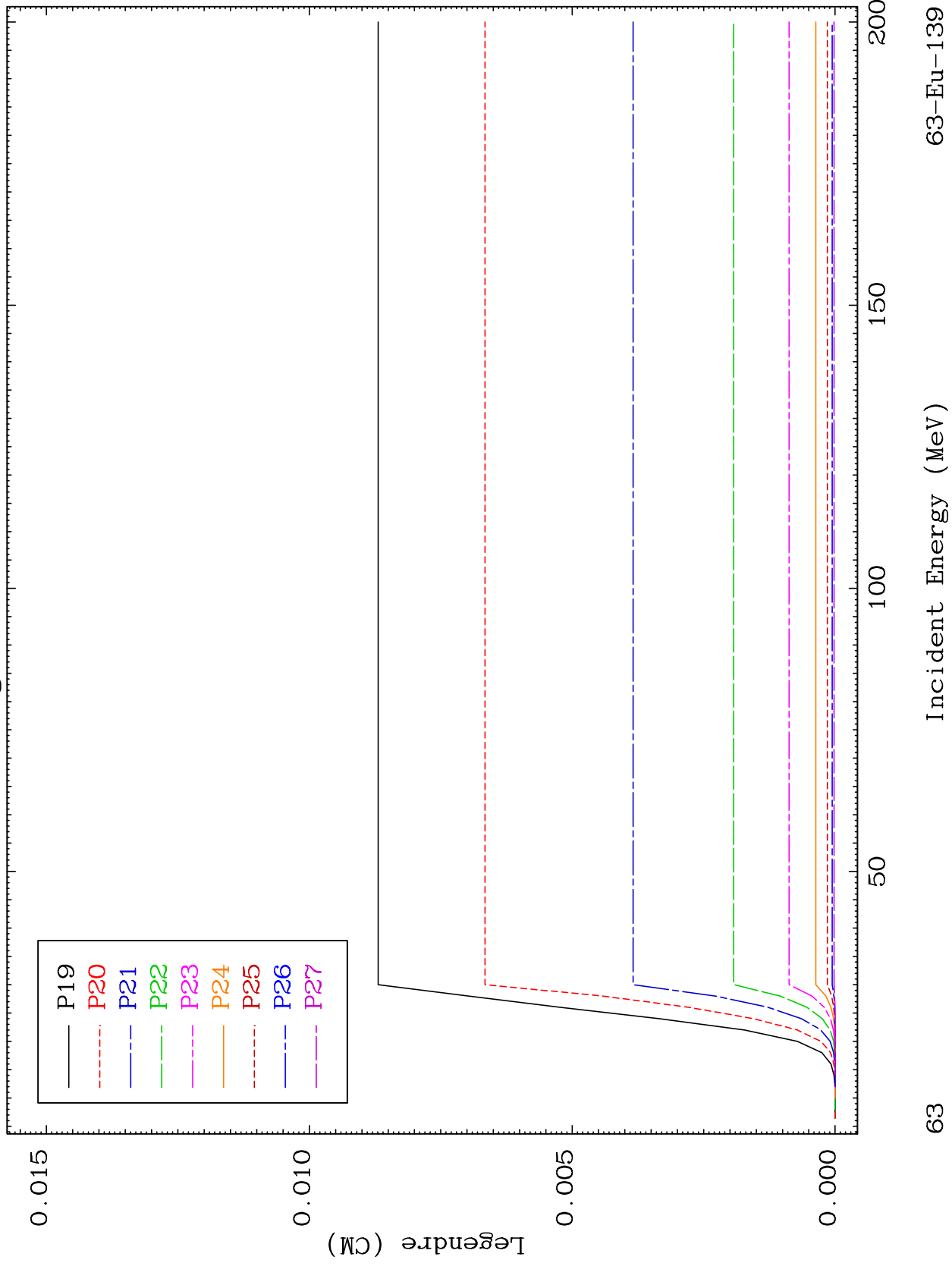
Incident Energy (MeV)

63-Eu-139

MAT 6289

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

63-Eu-139



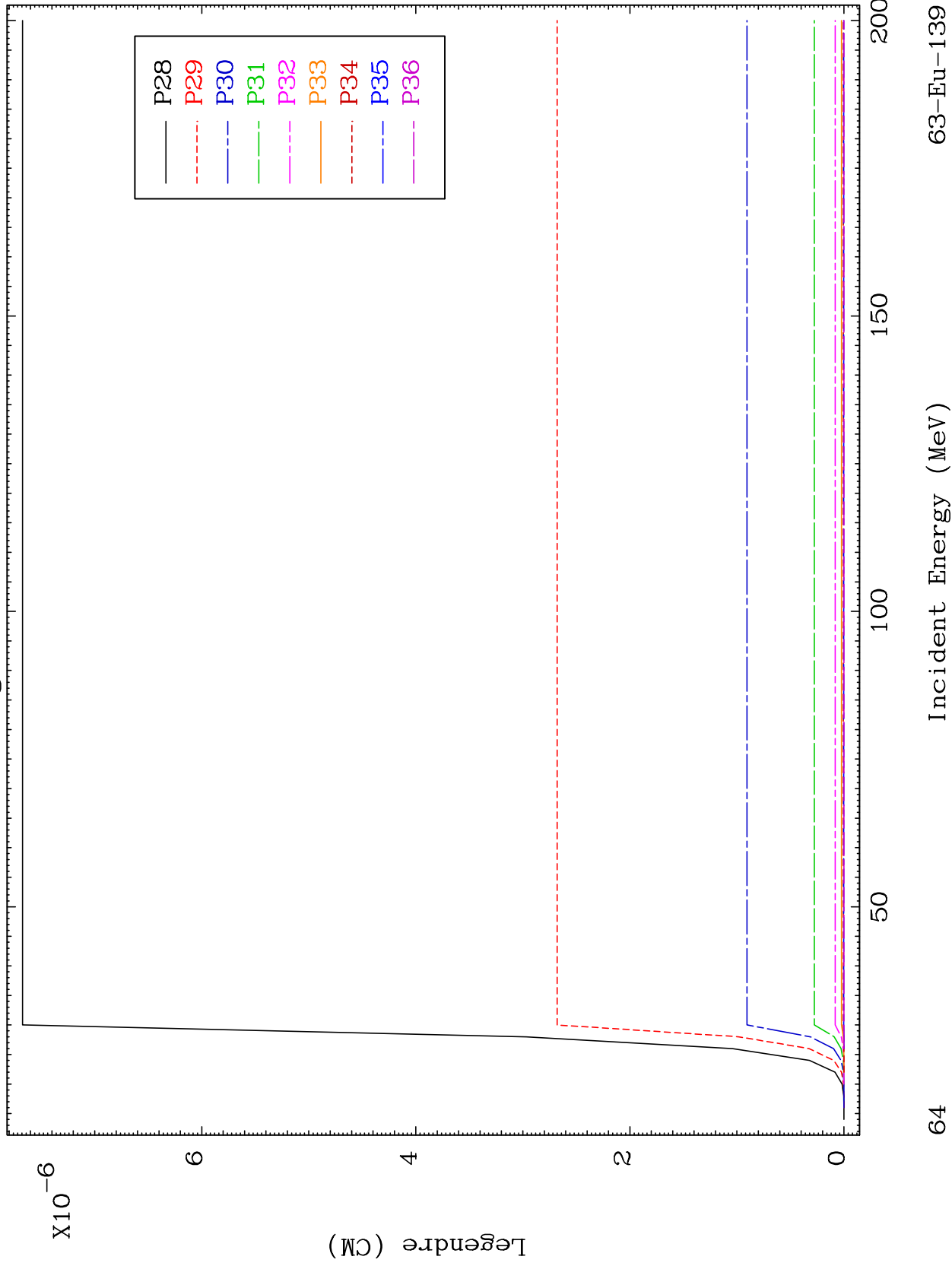
63

63-Eu-139

MAT 6289

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

63-Eu-139



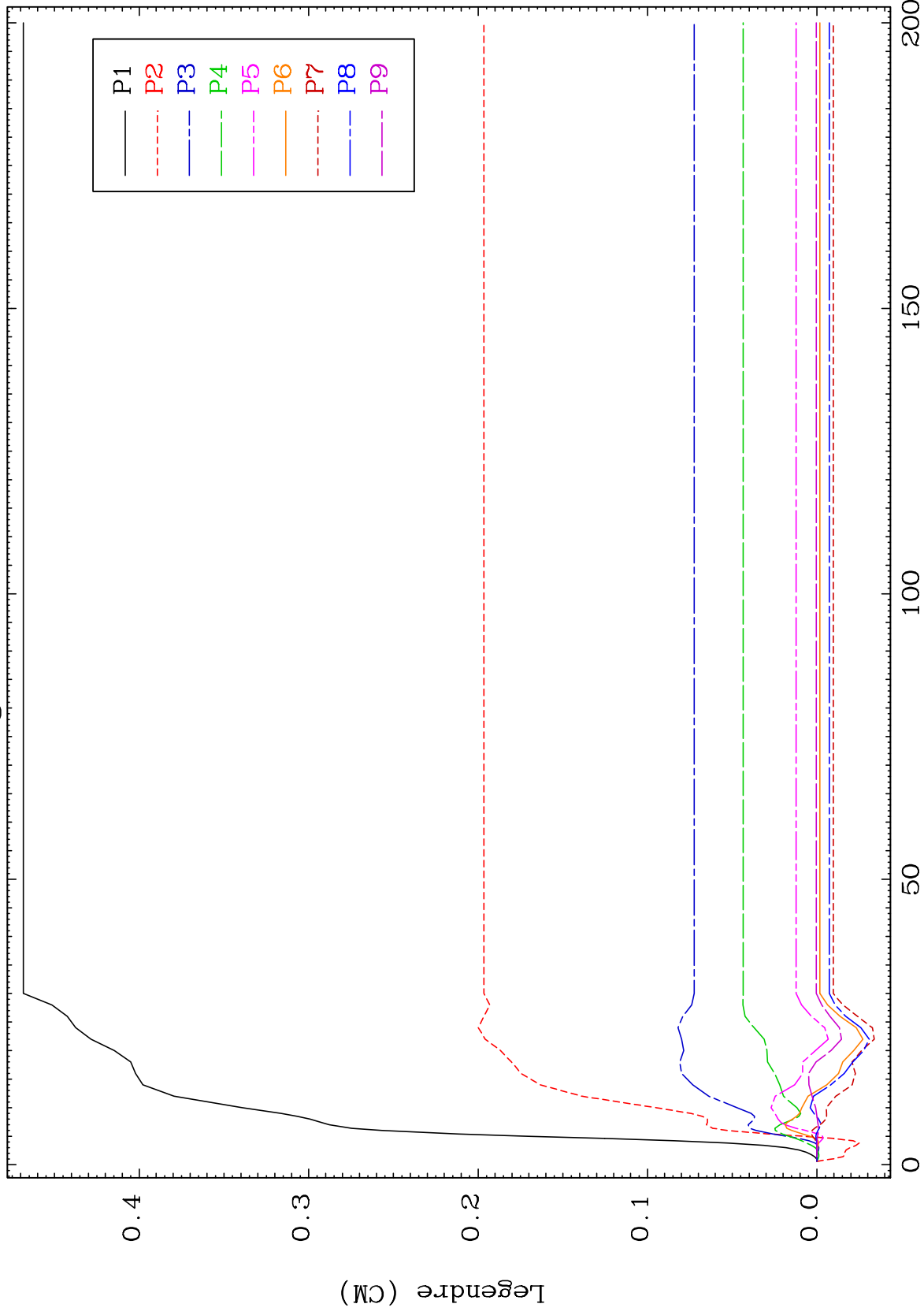
64

63-Eu-139

MAT 6289

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

63-Eu-139



65

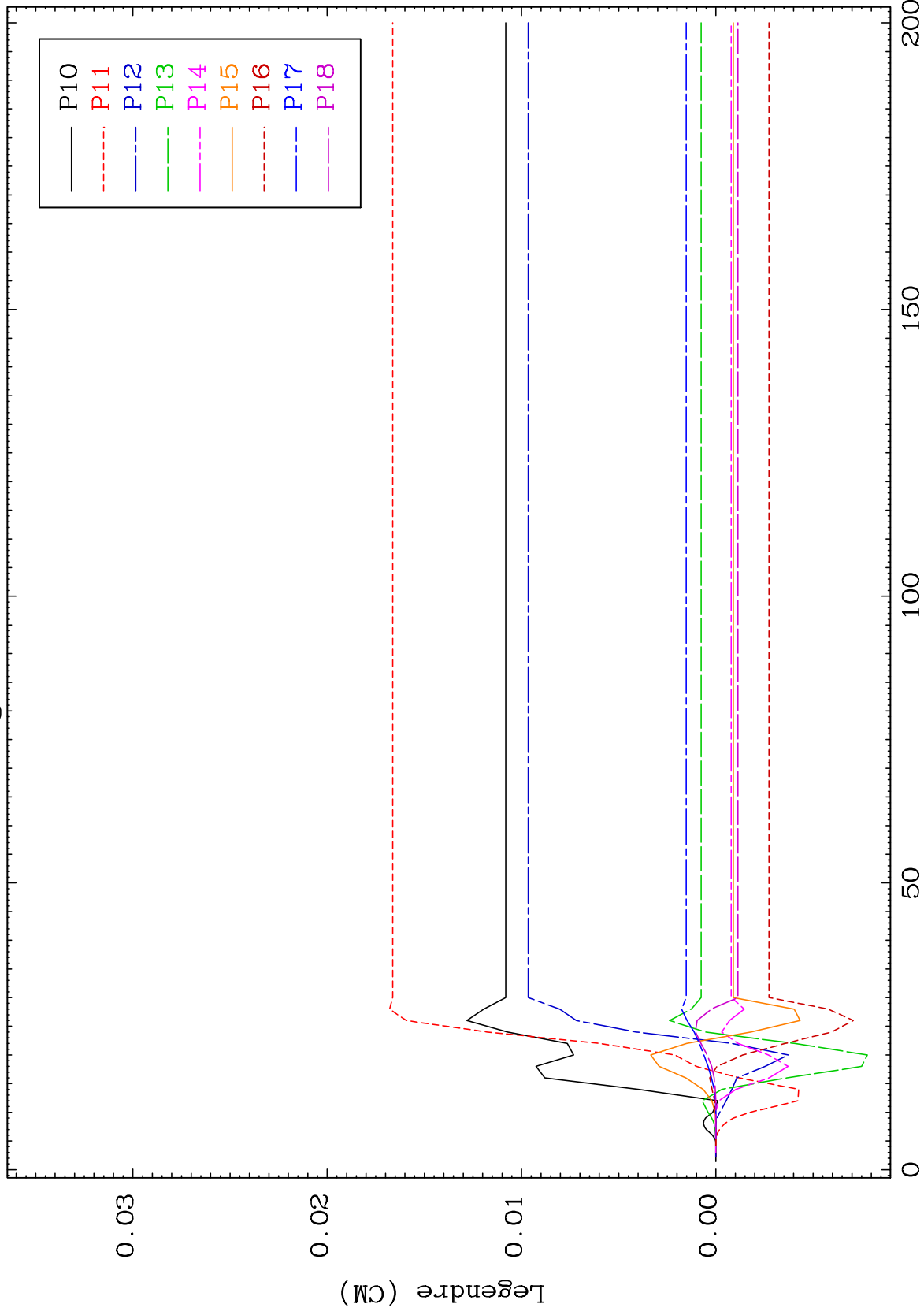
Incident Energy (MeV)

63-Eu-139

MAT 6289

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

63-Eu-139



66

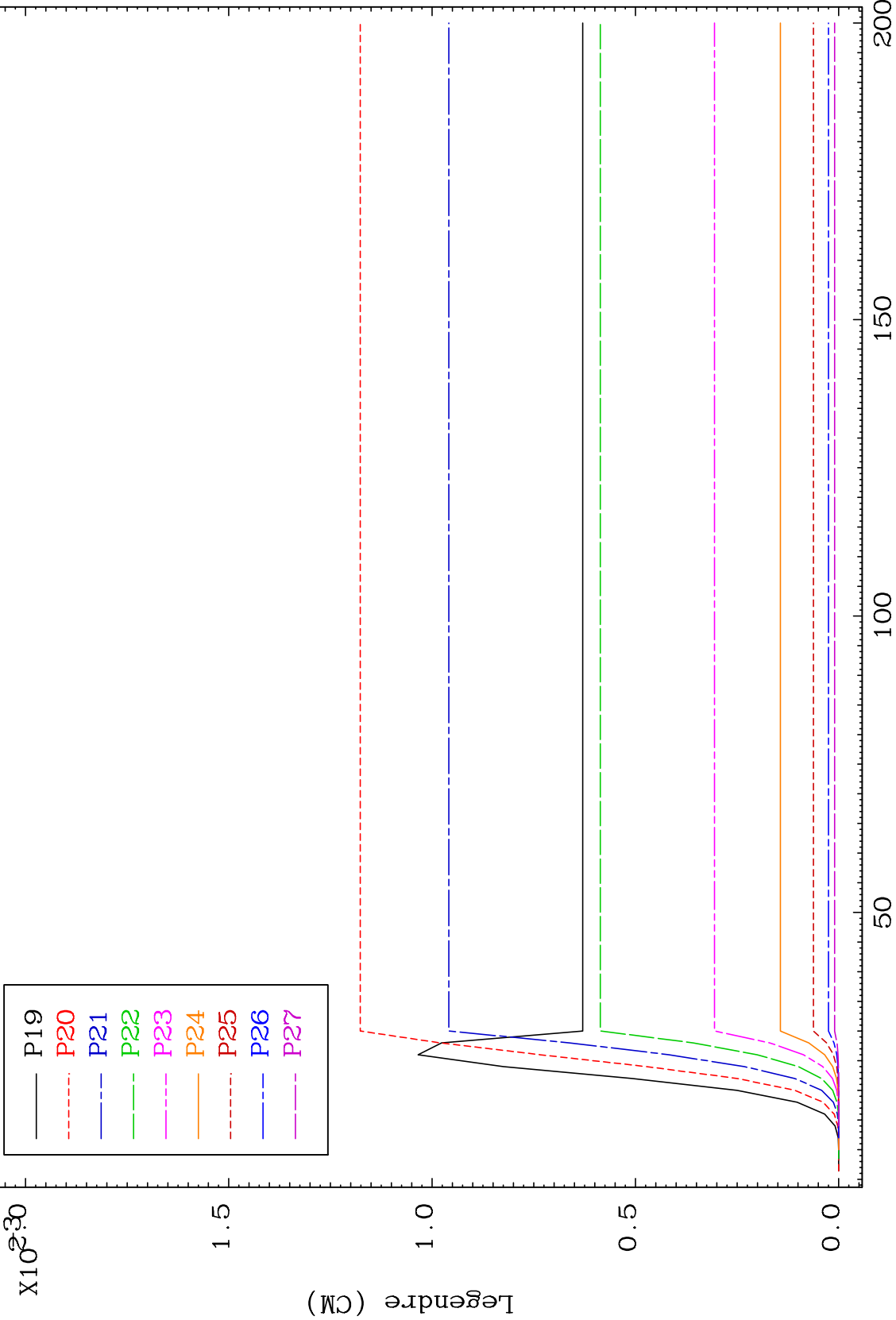
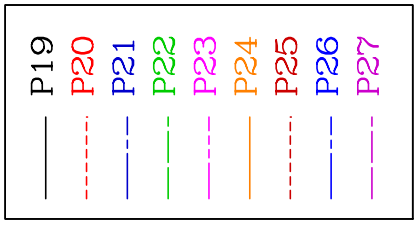
Incident Energy (MeV)

63-Eu-139

MAT 6289

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

63-Eu-139



67

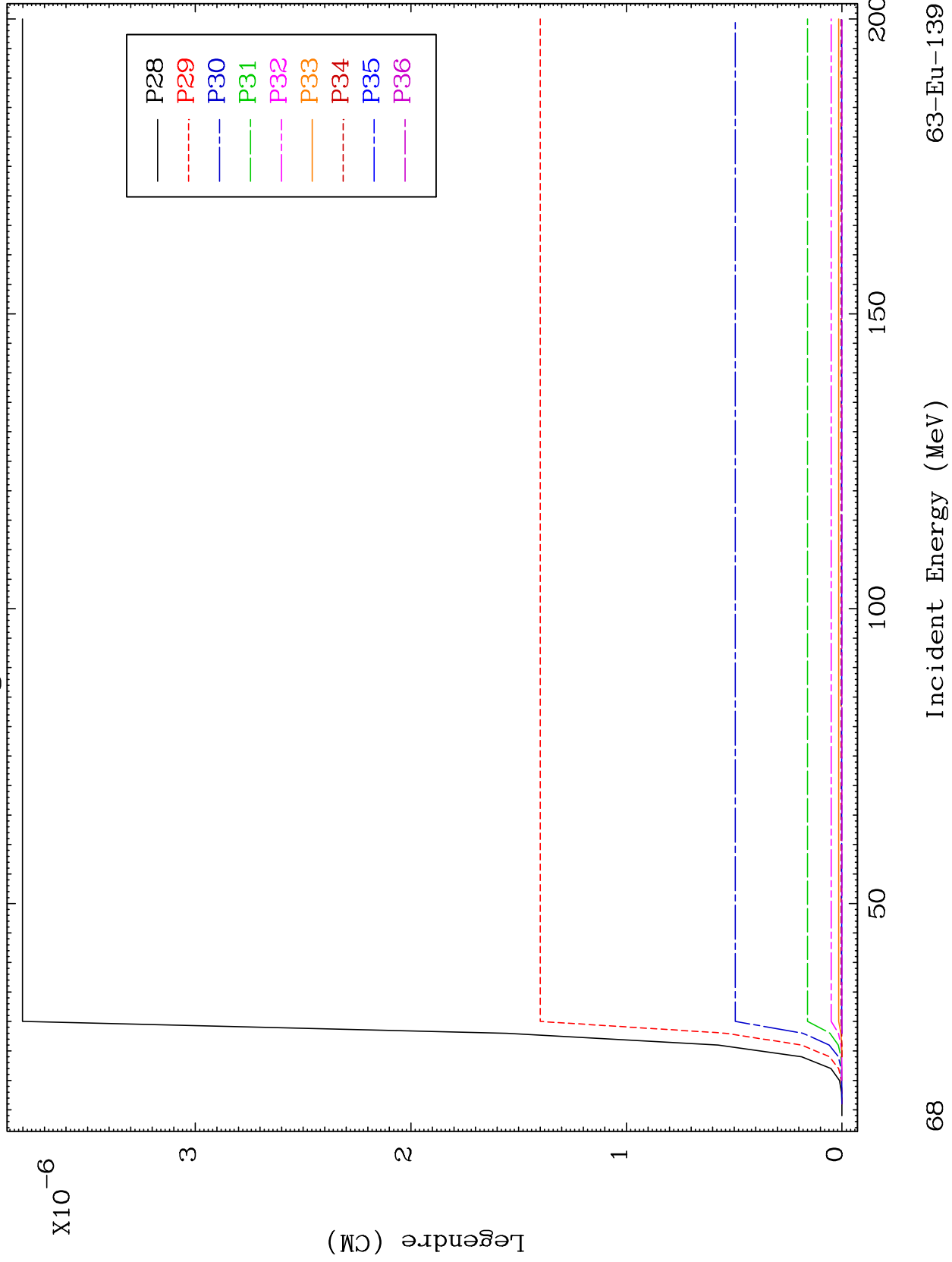
Incident Energy (MeV)

63-Eu-139

MAT 6289

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

63-Eu-139



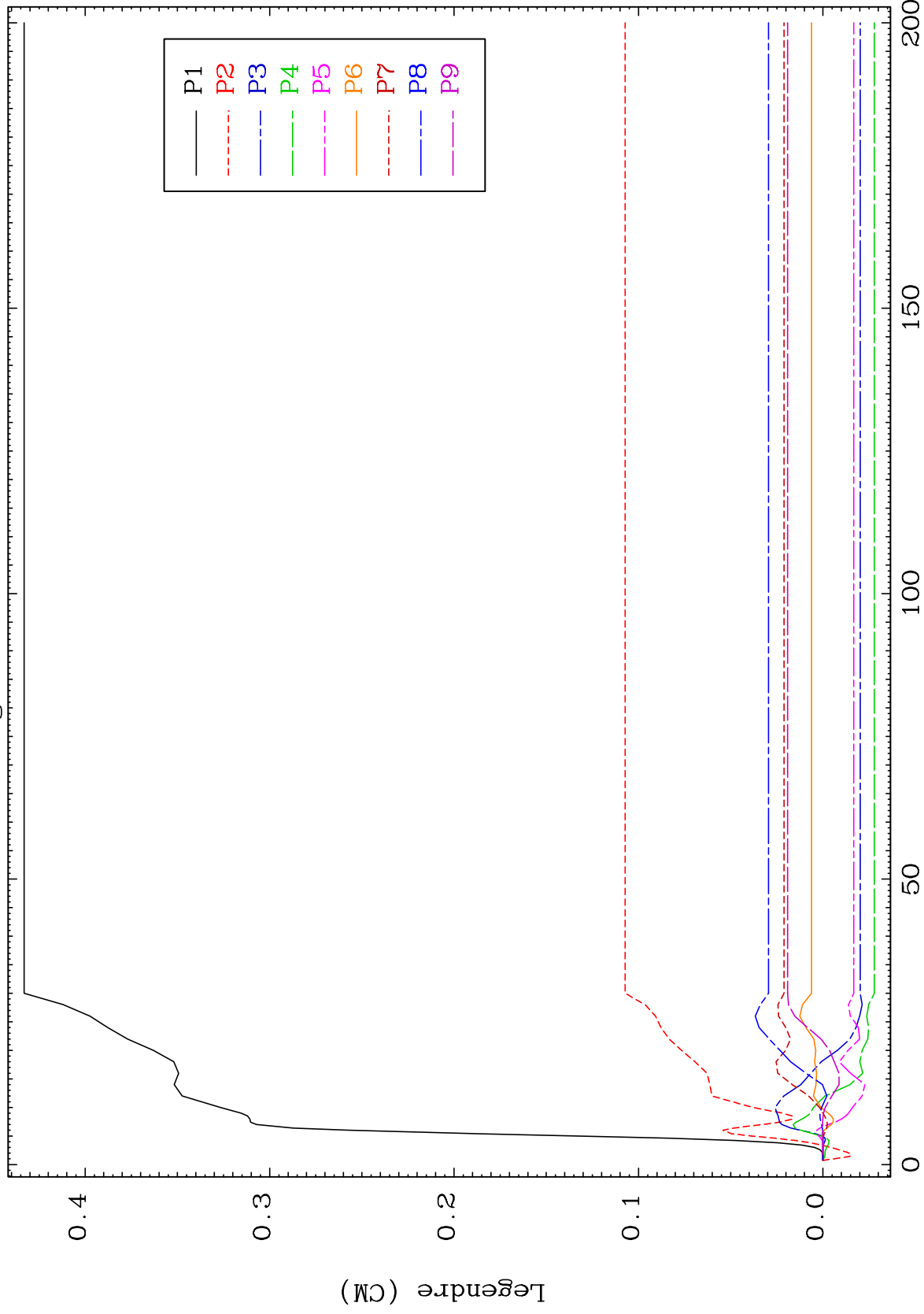
68

63-Eu-139

MAT 6289

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

63-Eu-139



69

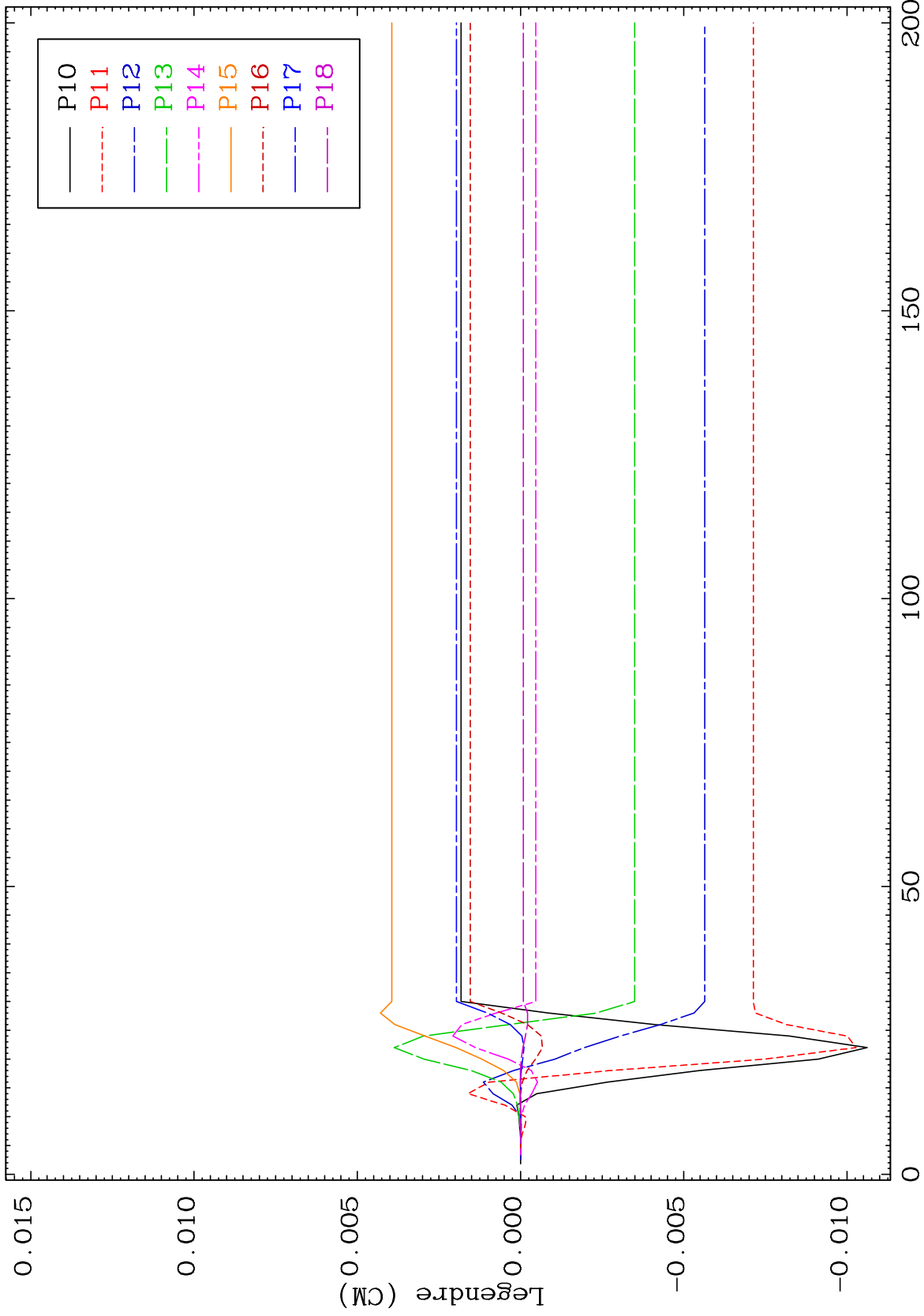
Incident Energy (MeV)

63-Eu-139

MAT 6289

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

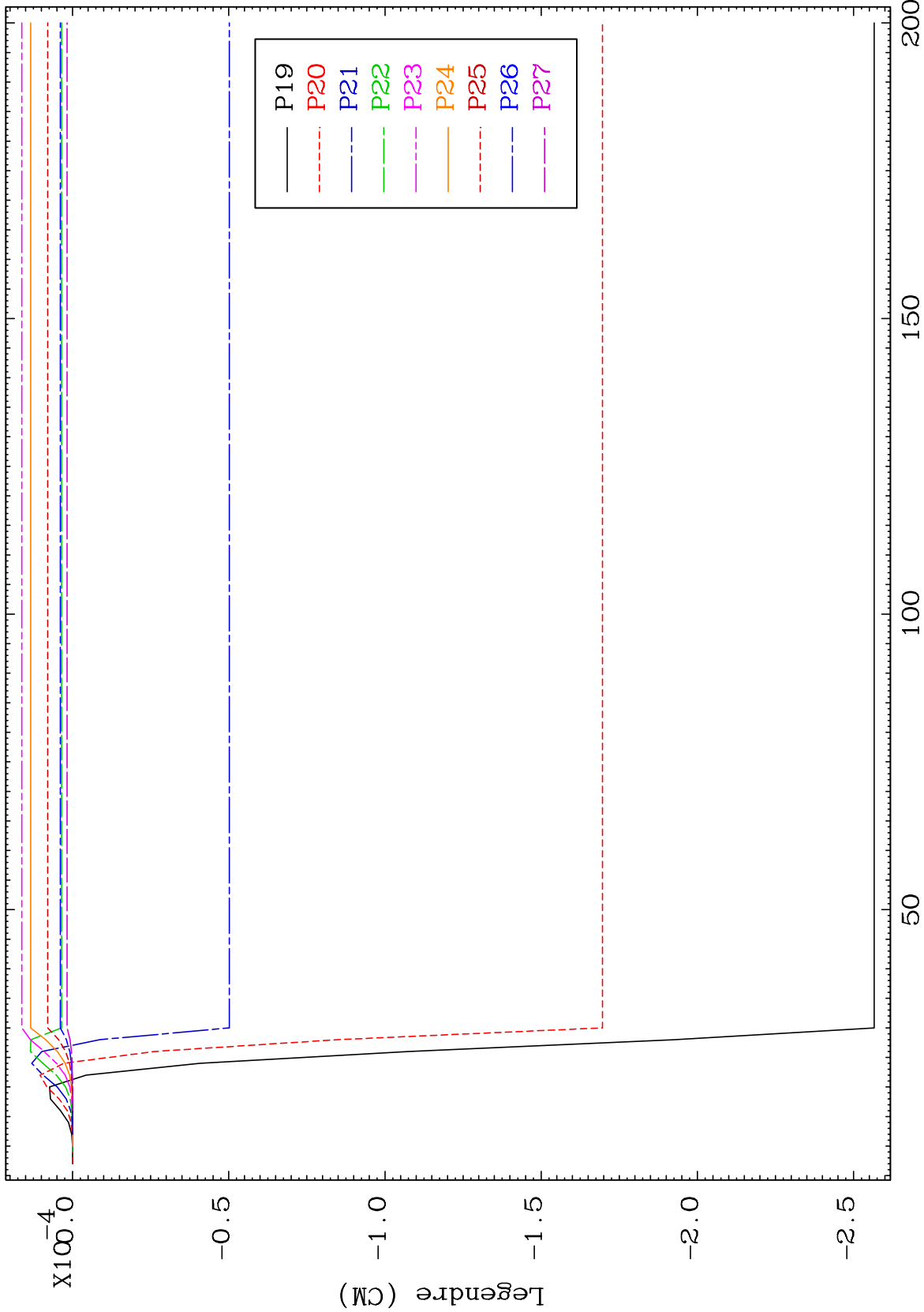
63-Eu-139



70

Incident Energy (MeV)

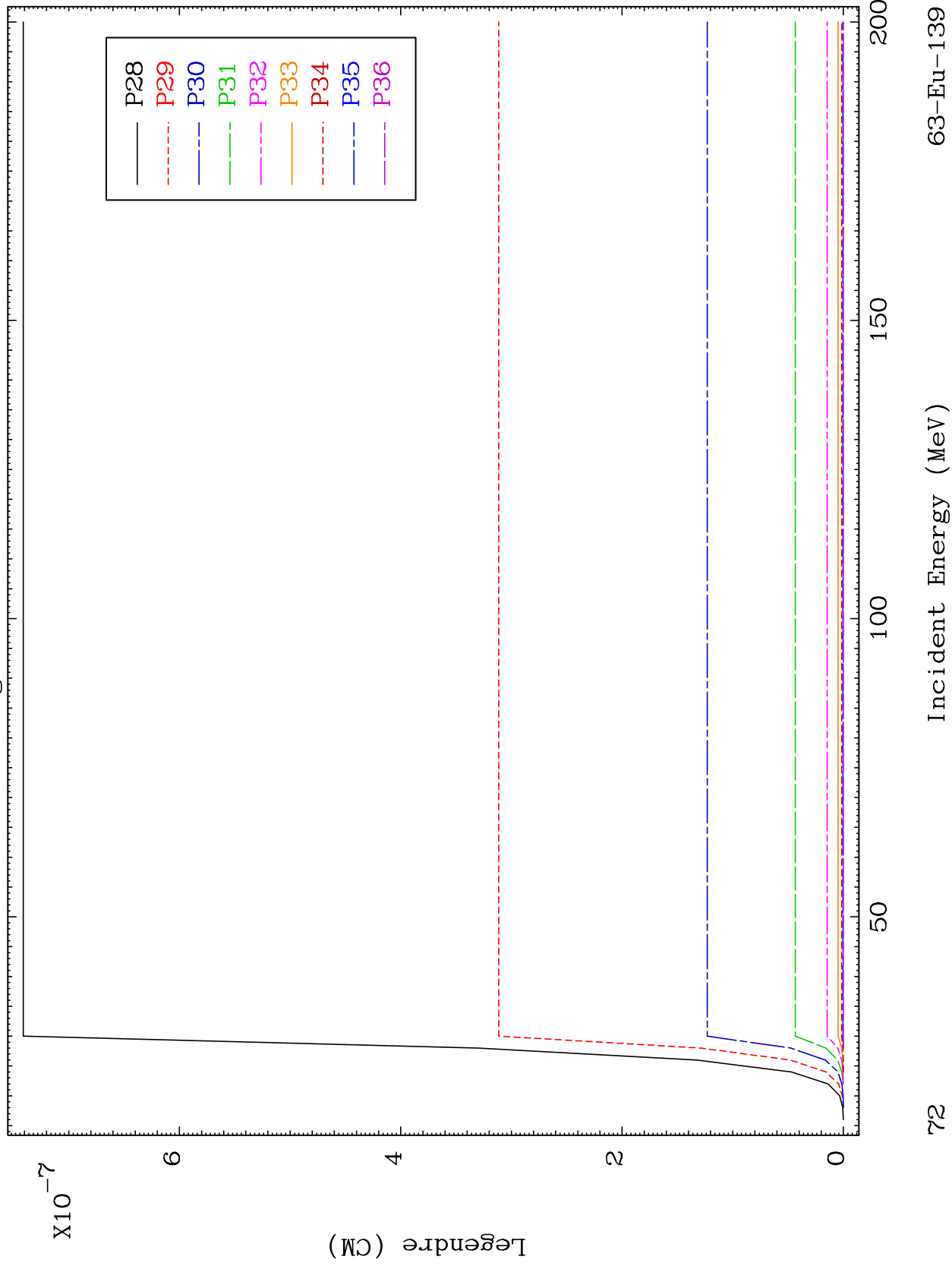
63-Eu-139



MAT 6289

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

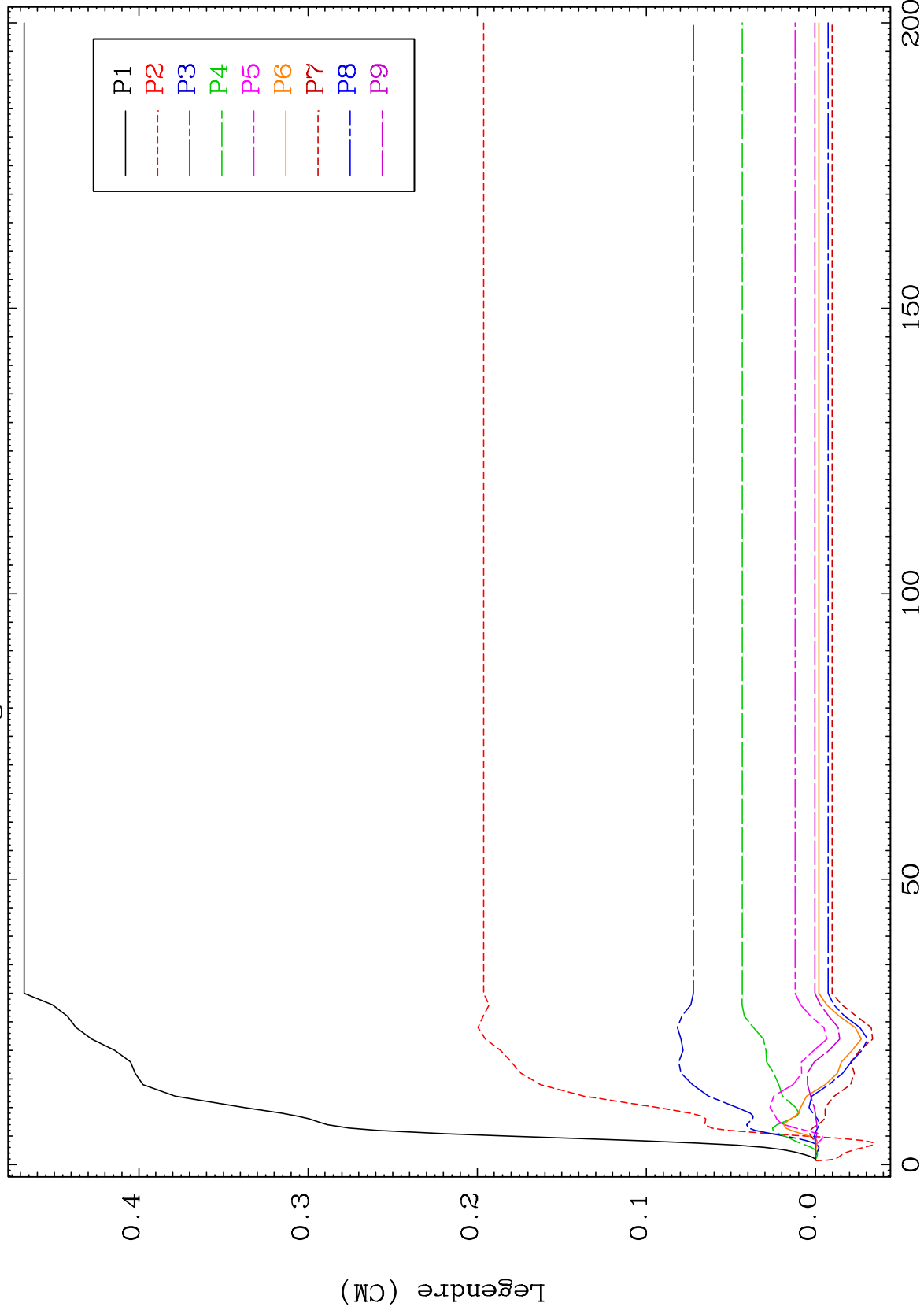
63-Eu-139



MAT 6289

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

63-Eu-139



73

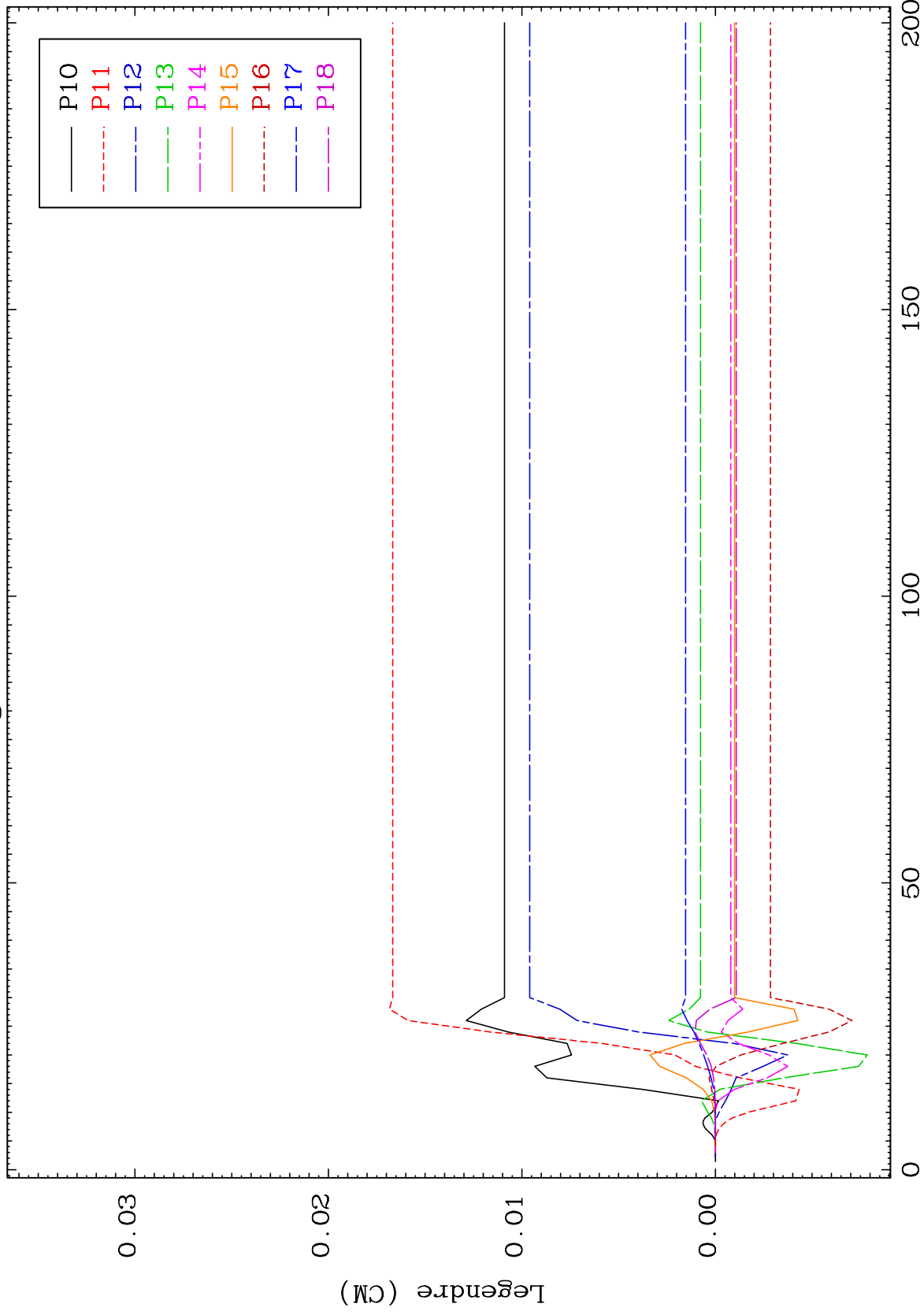
Incident Energy (MeV)

63-Eu-139

MAT 6289

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

63-Eu-139



74

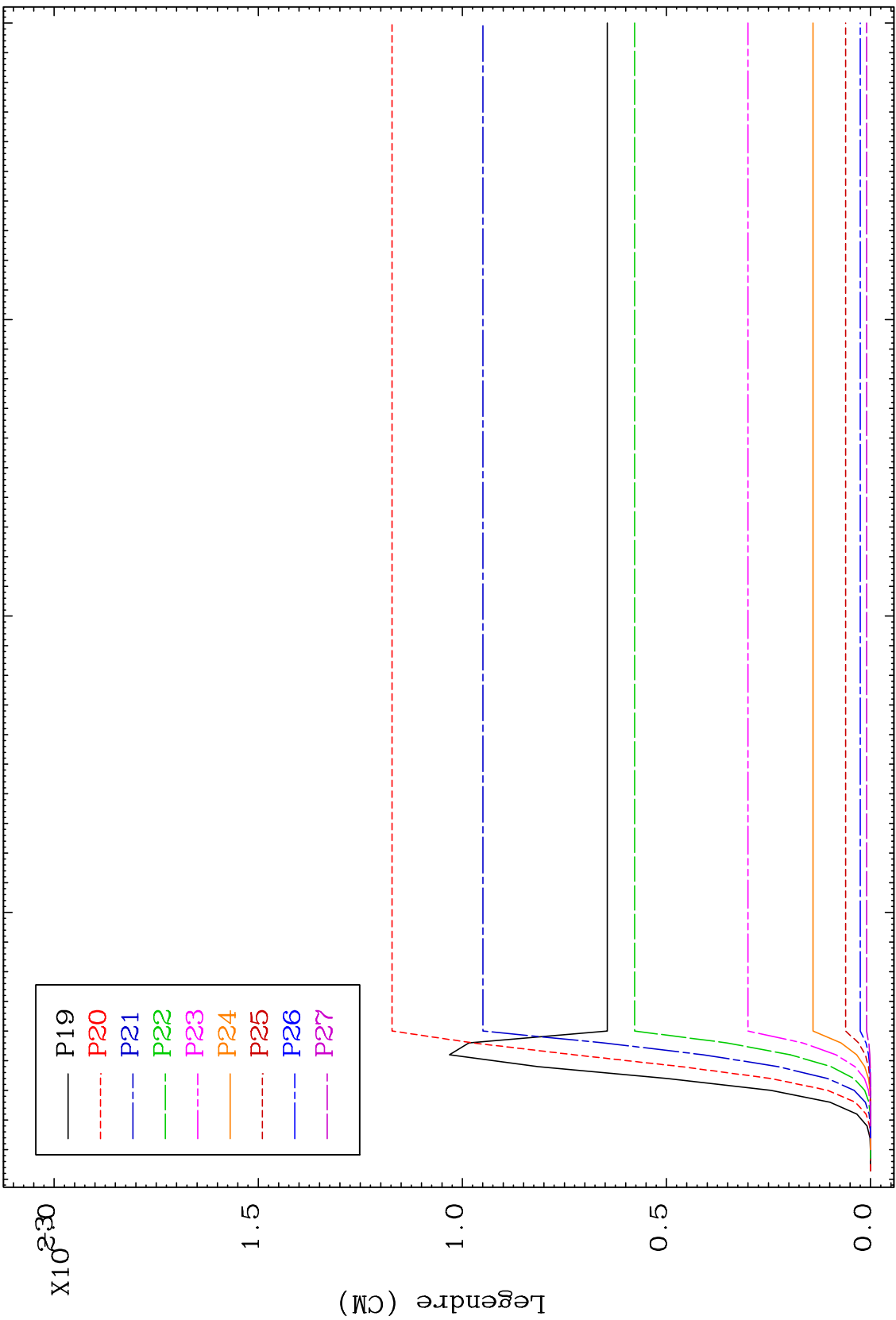
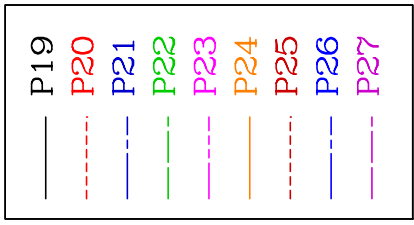
Incident Energy (MeV)

63-Eu-139

MAT 6289

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

63-Eu-139



75

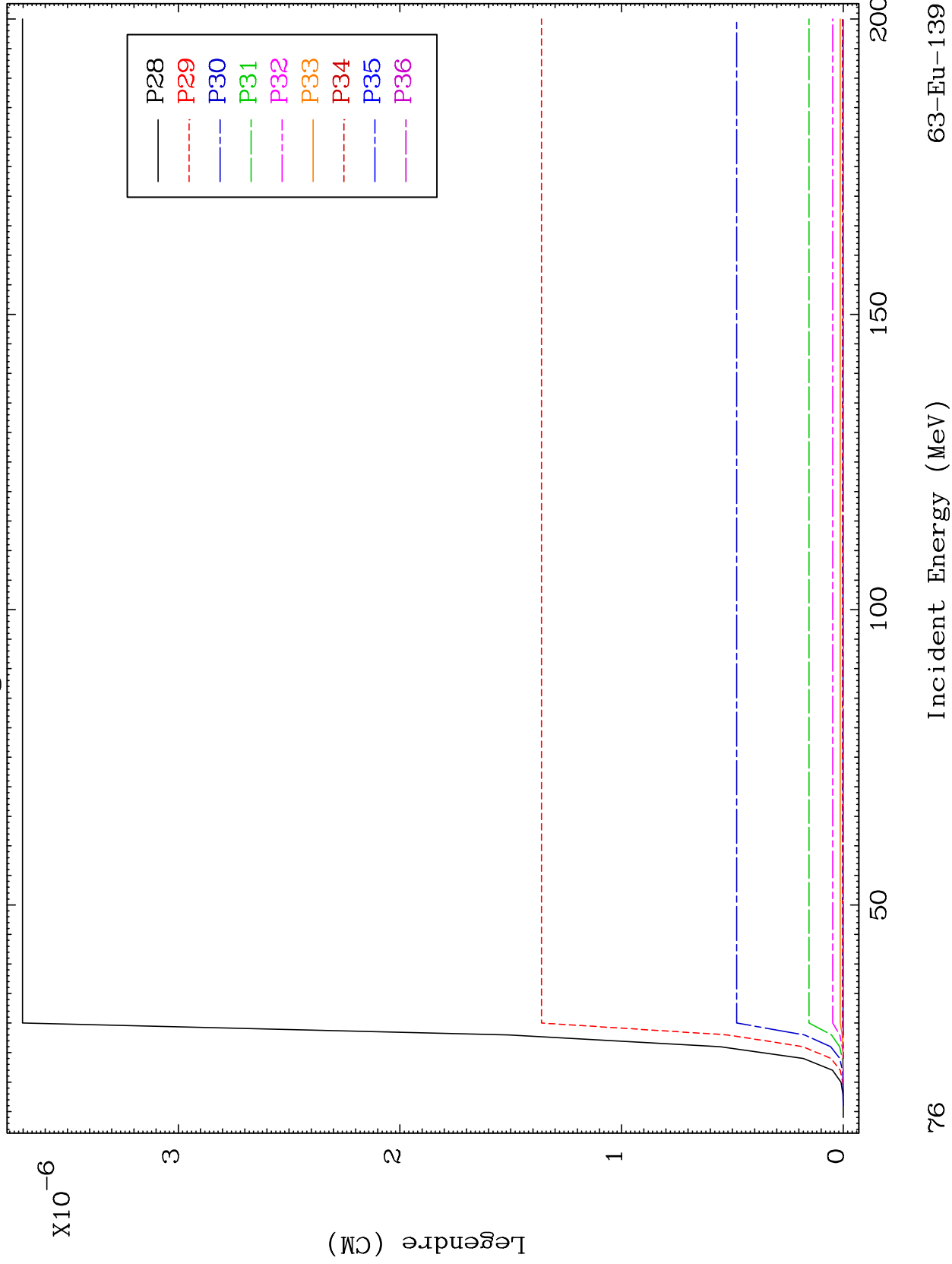
Incident Energy (MeV)

63-Eu-139

MAT 6289

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

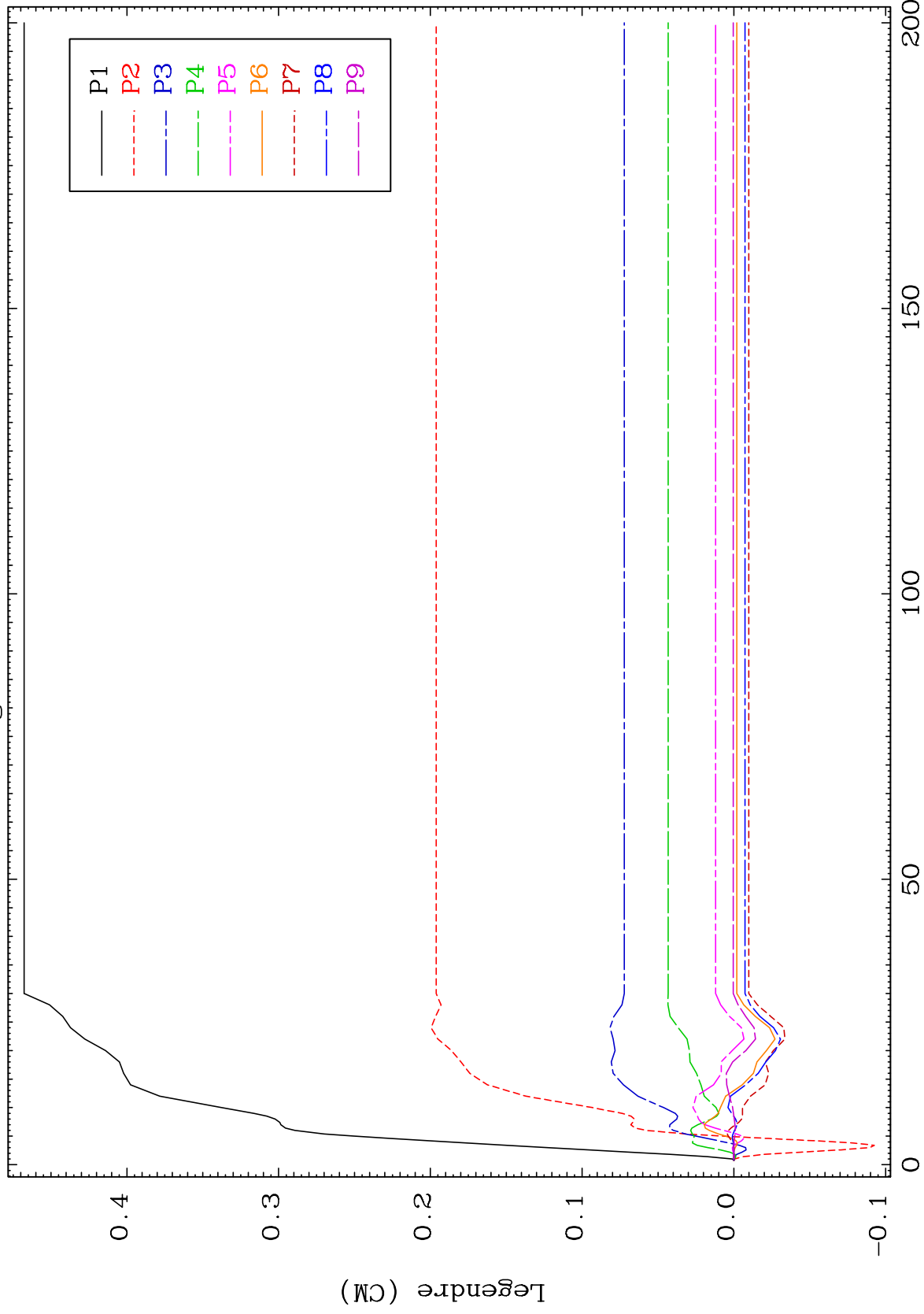
63-Eu-139



MAT 6289

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

63-Eu-139



77

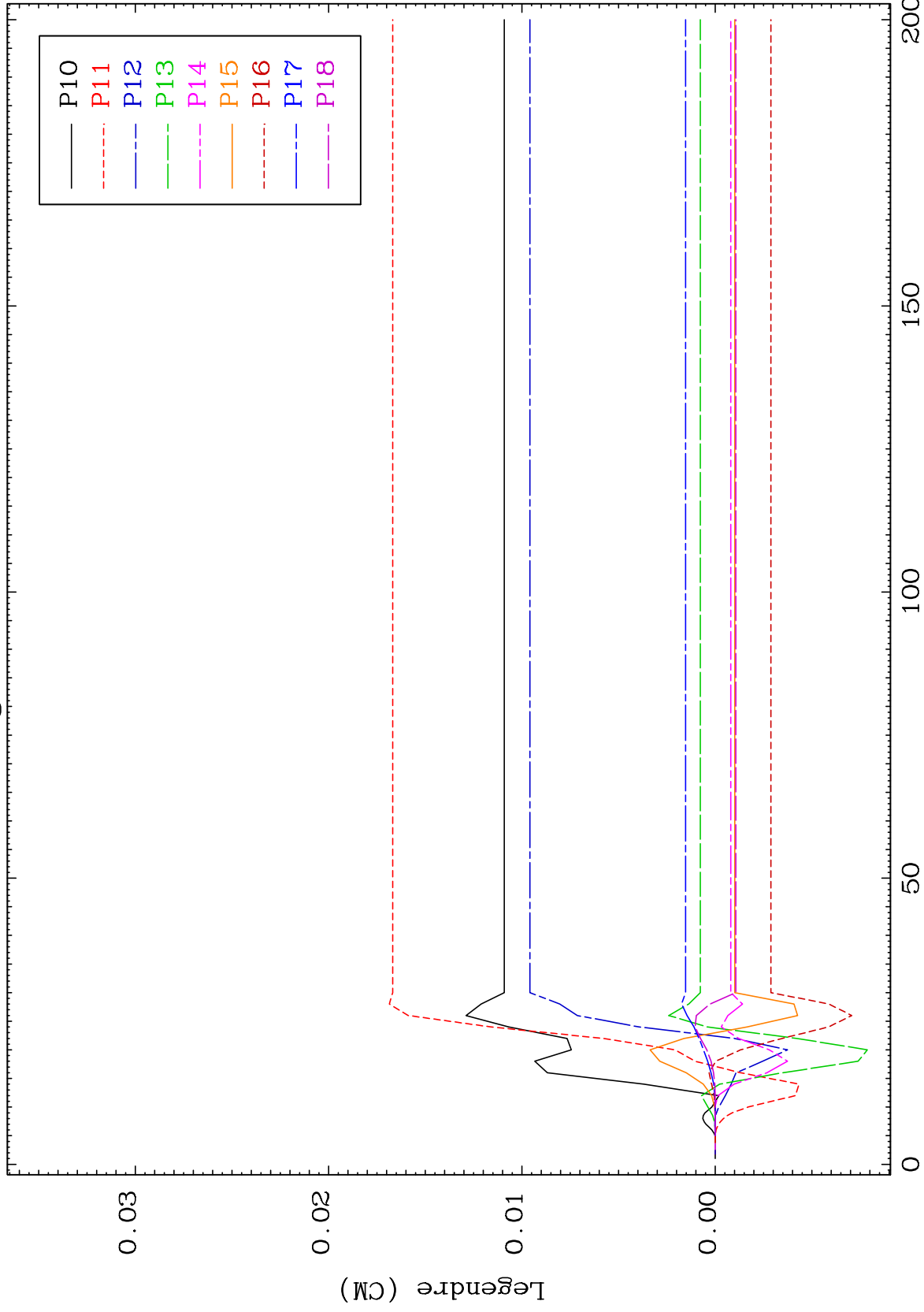
Incident Energy (MeV)

63-Eu-139

MAT 6289

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

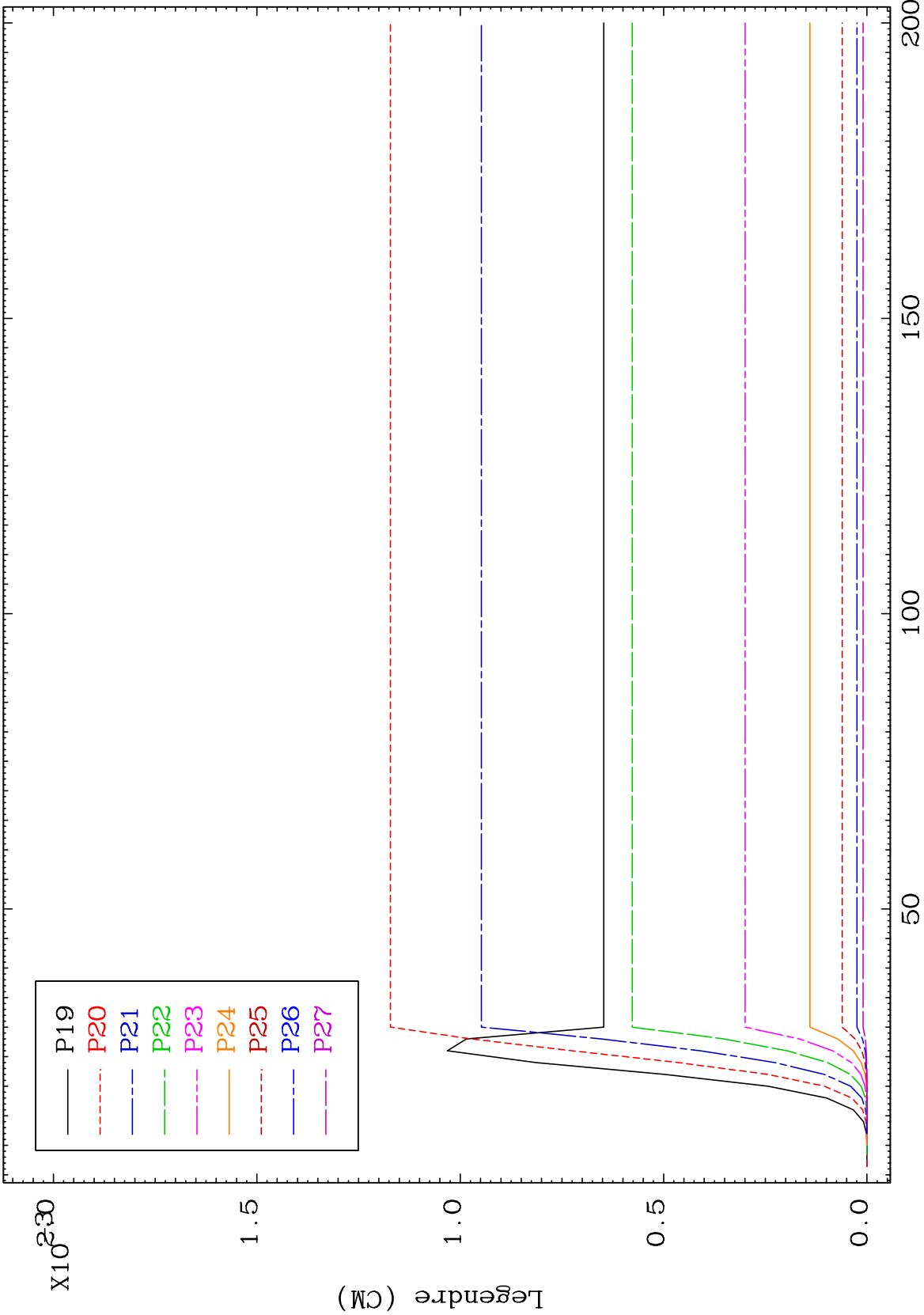
63-Eu-139



78

Incident Energy (MeV)

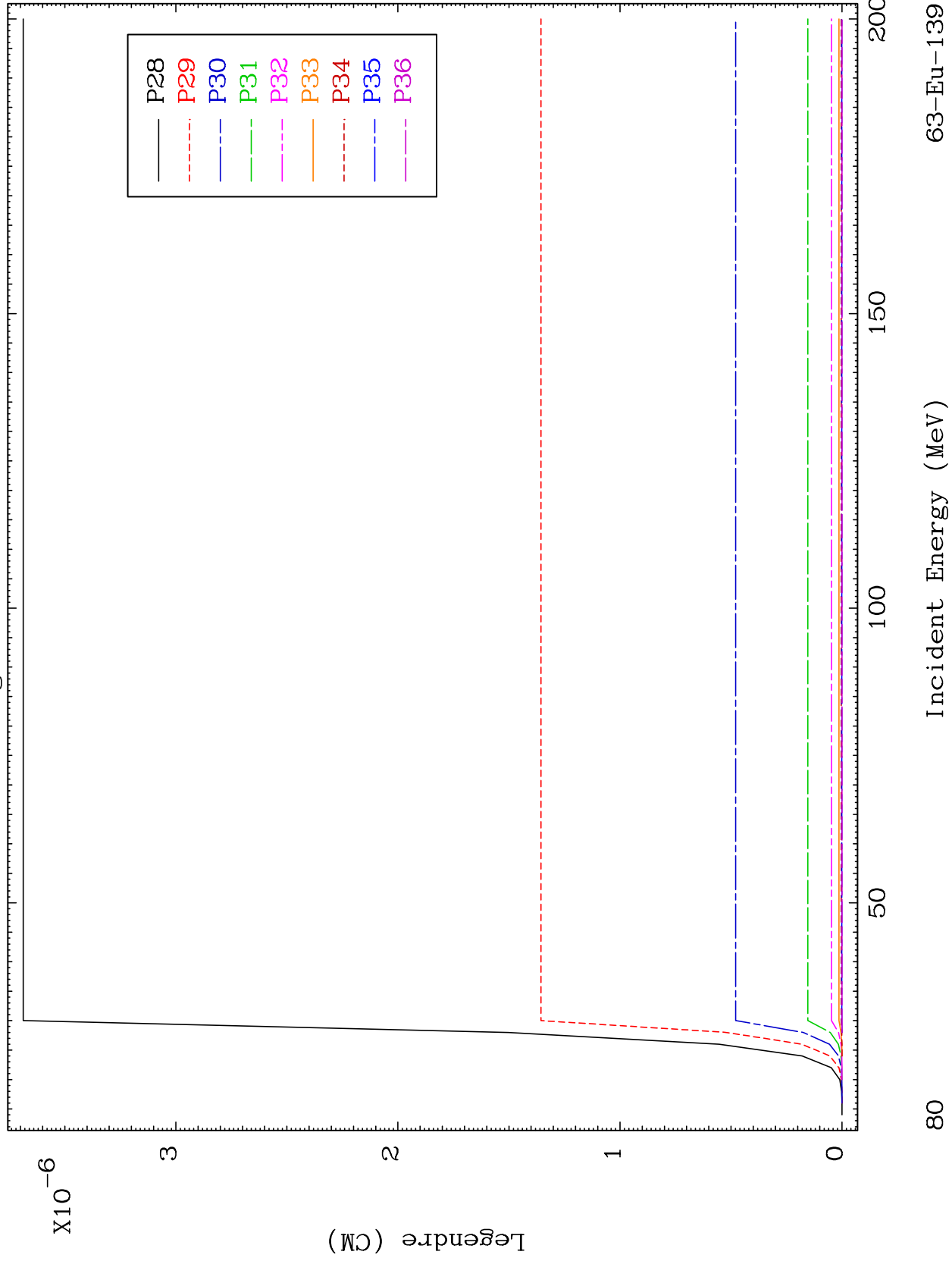
63-Eu-139



MAT 6289

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

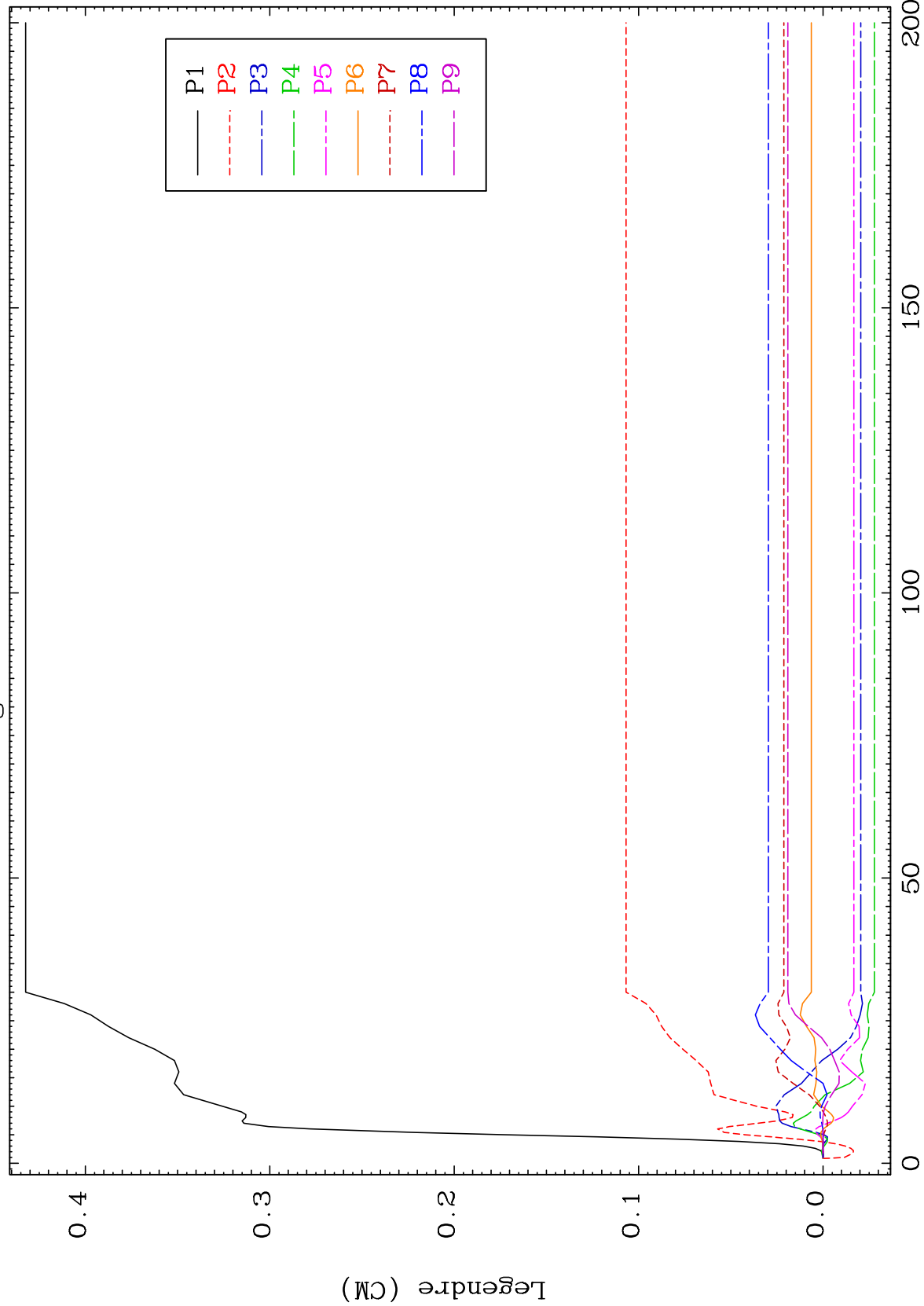
63-Eu-139



MAT 6289

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

63-Eu-139



81

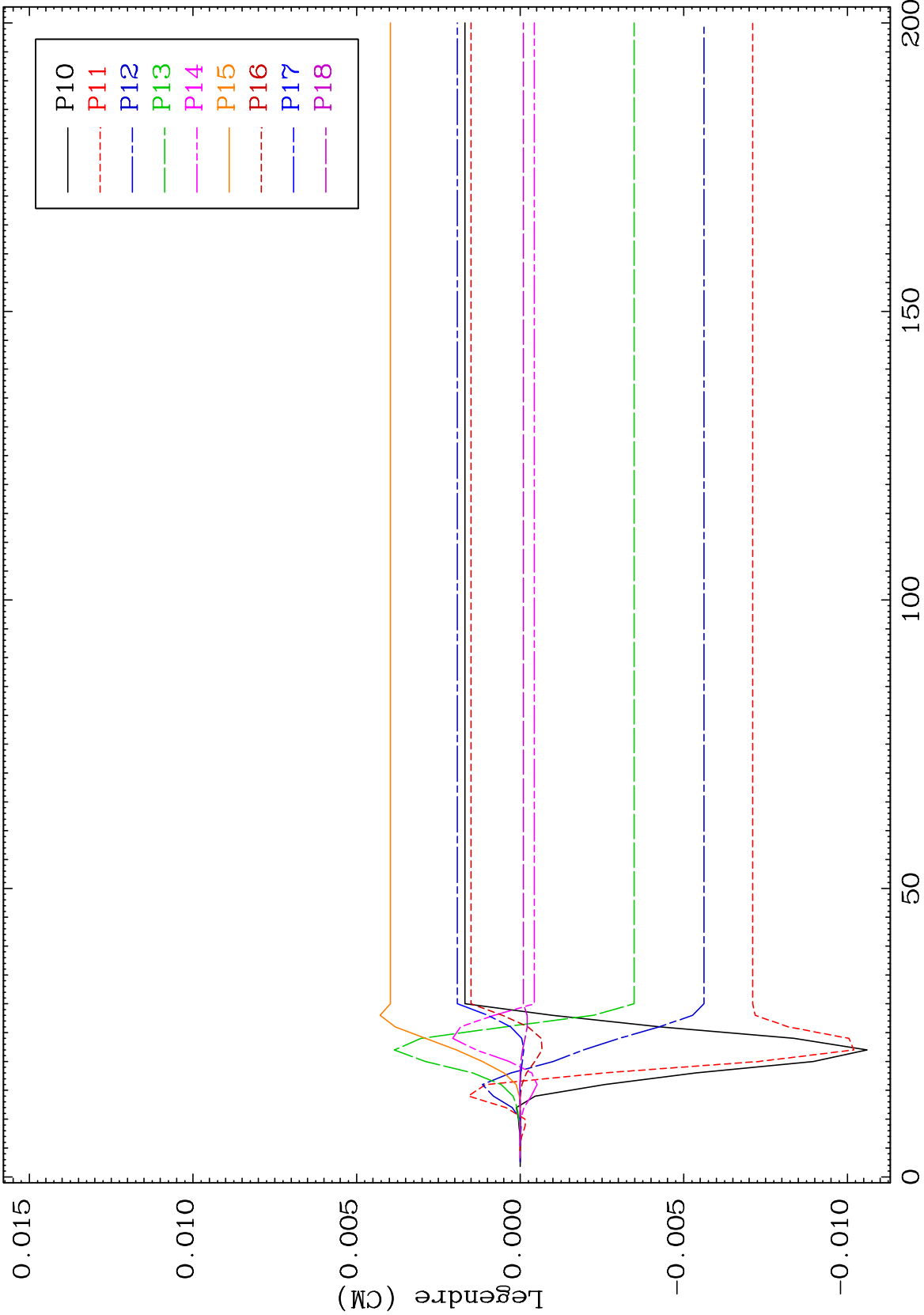
Incident Energy (MeV)

63-Eu-139

MAT 6289

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

63-Eu-139



82

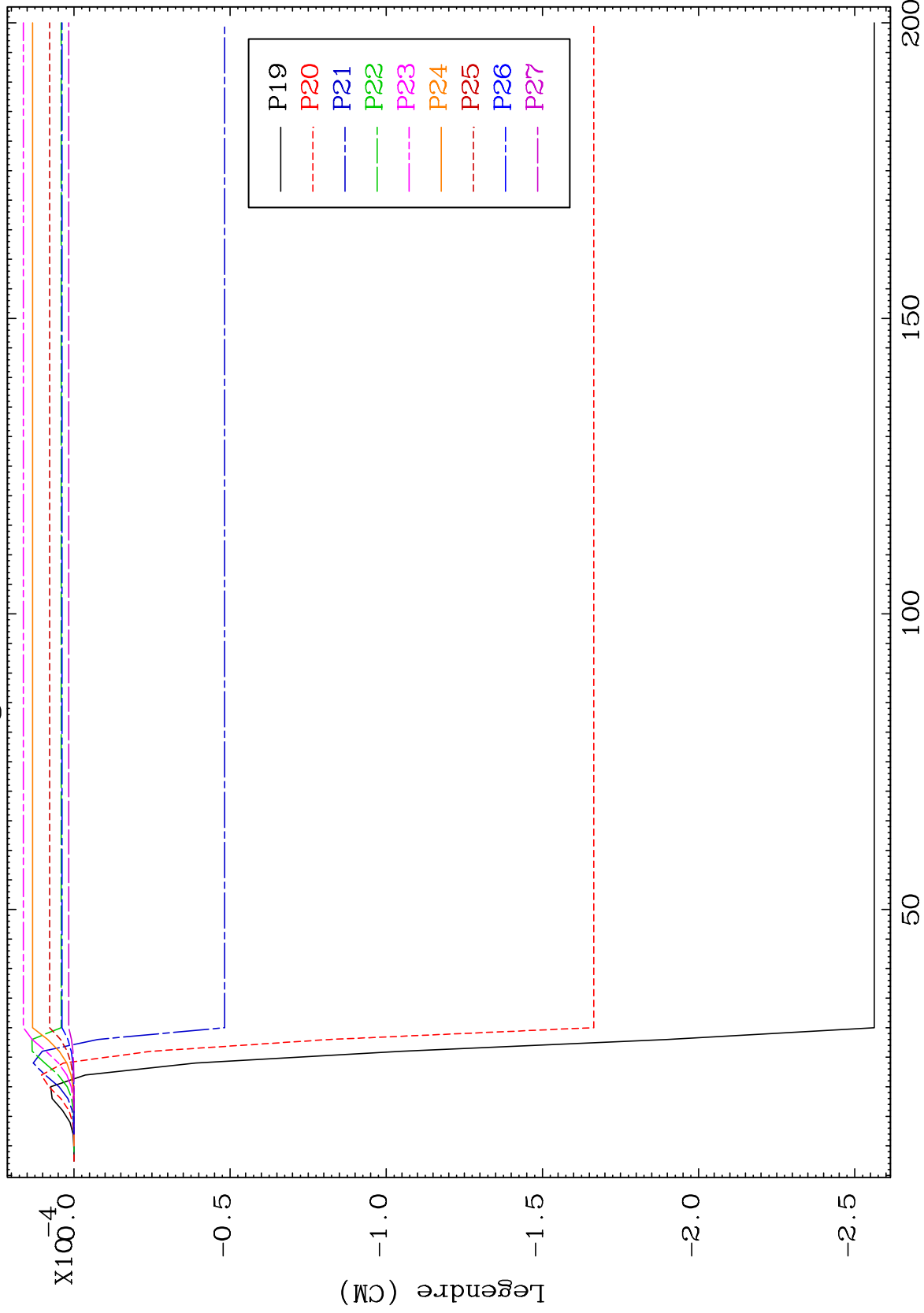
Incident Energy (MeV)

63-Eu-139

MAT 6289

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

63-Eu-139



83

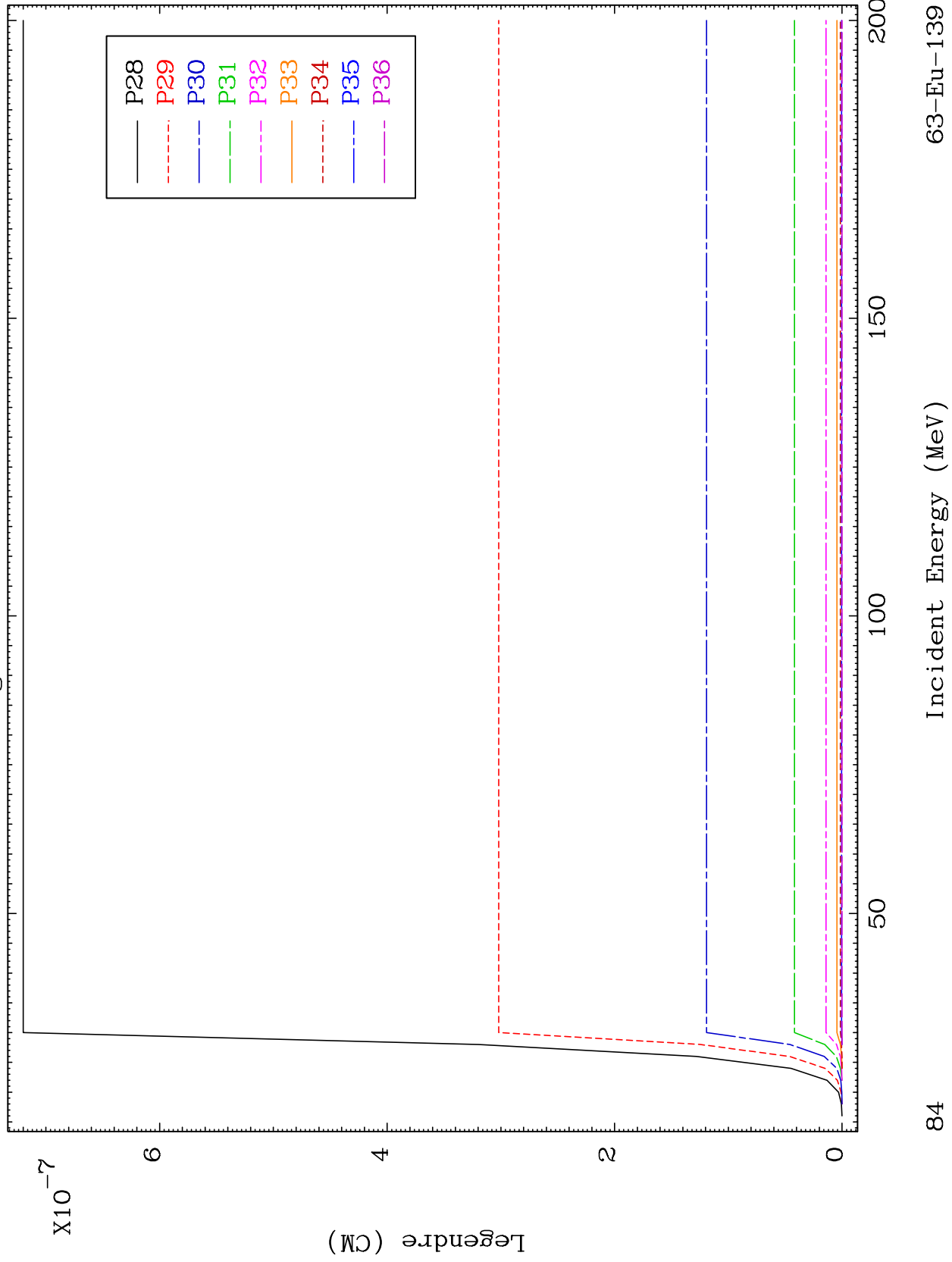
Incident Energy (MeV)

63-Eu-139

MAT 6289

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

63-Eu-139



84

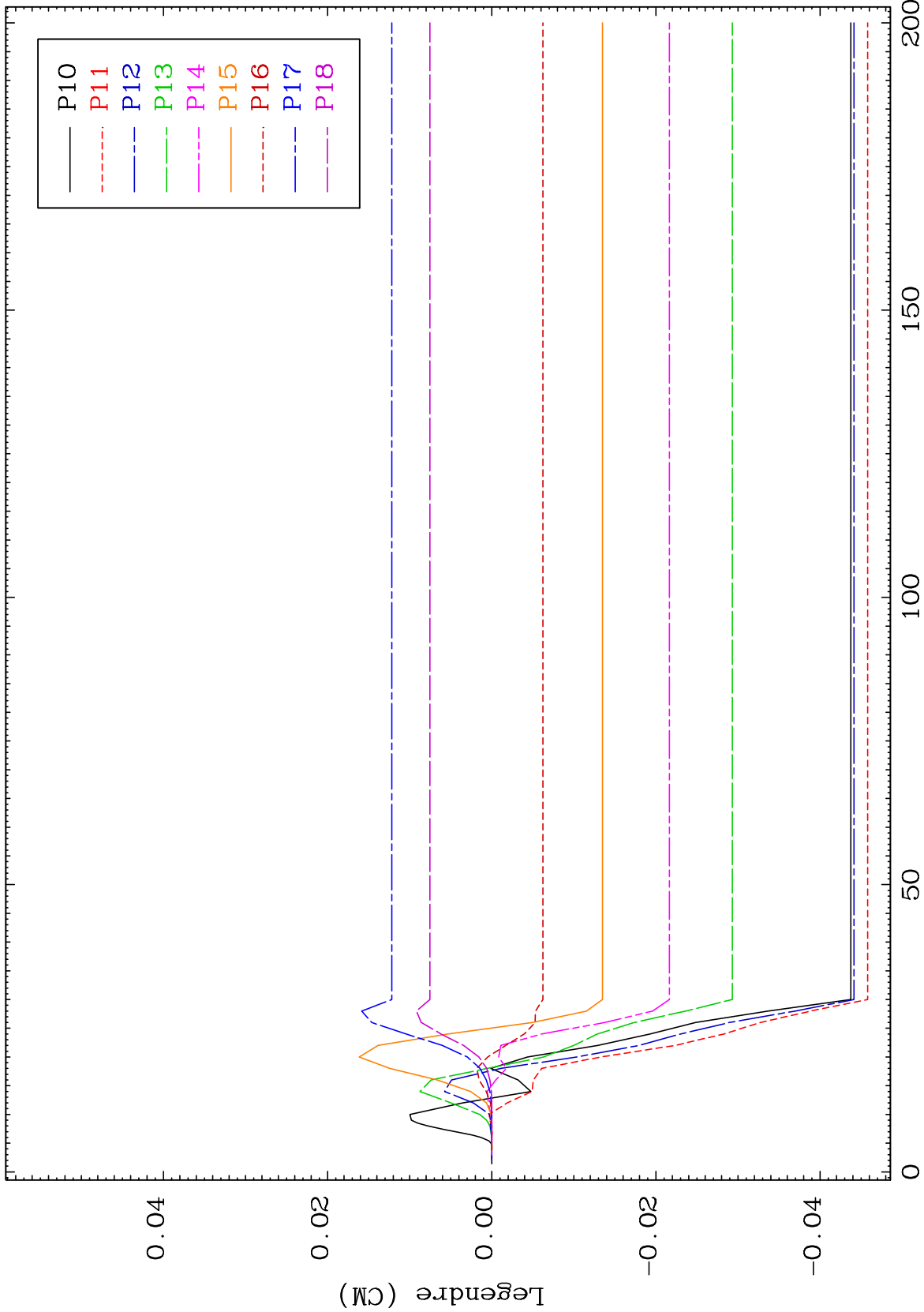
Incident Energy (MeV)

63-Eu-139

MAT 6289

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

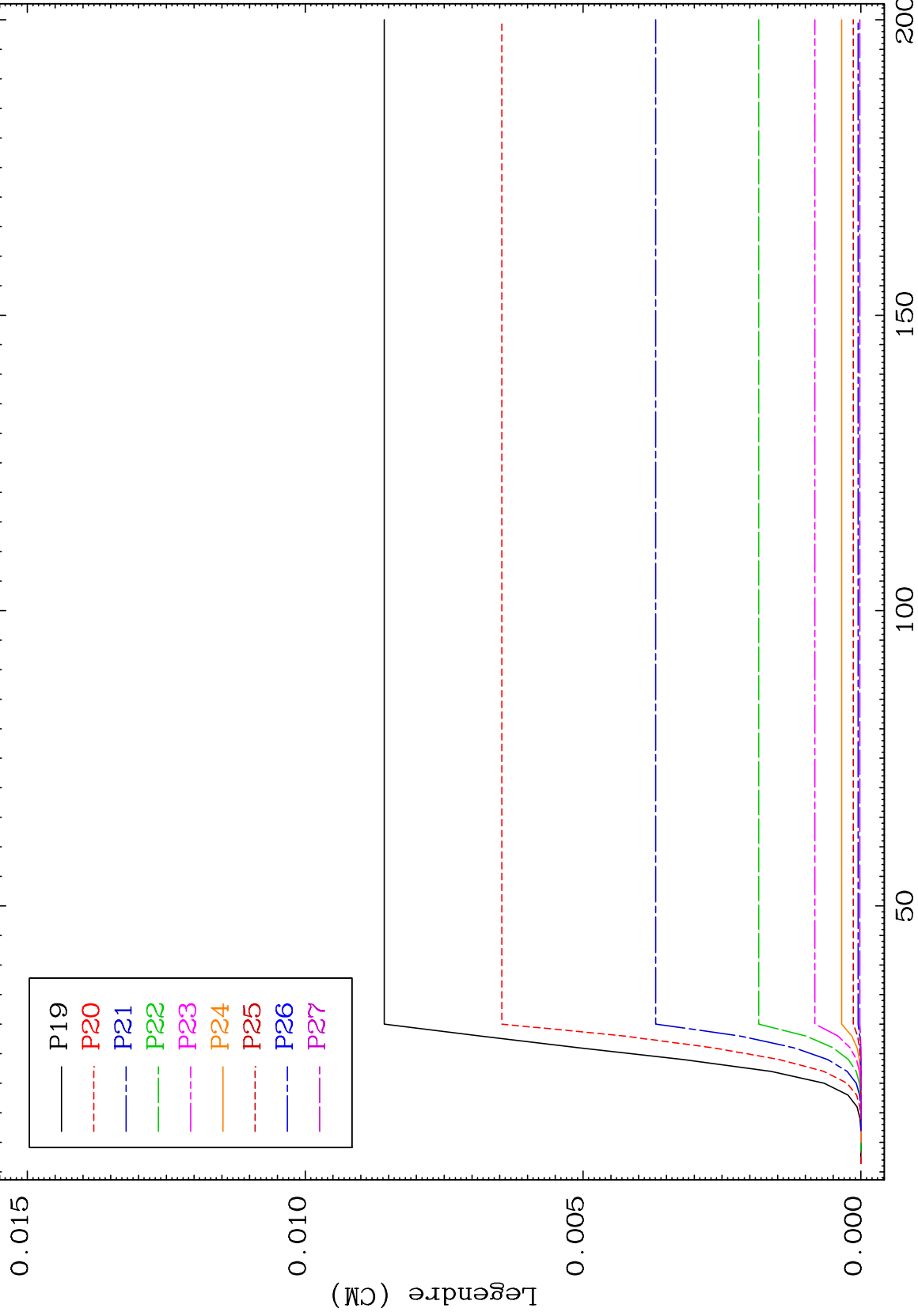
63-Eu-139



86

Incident Energy (MeV)

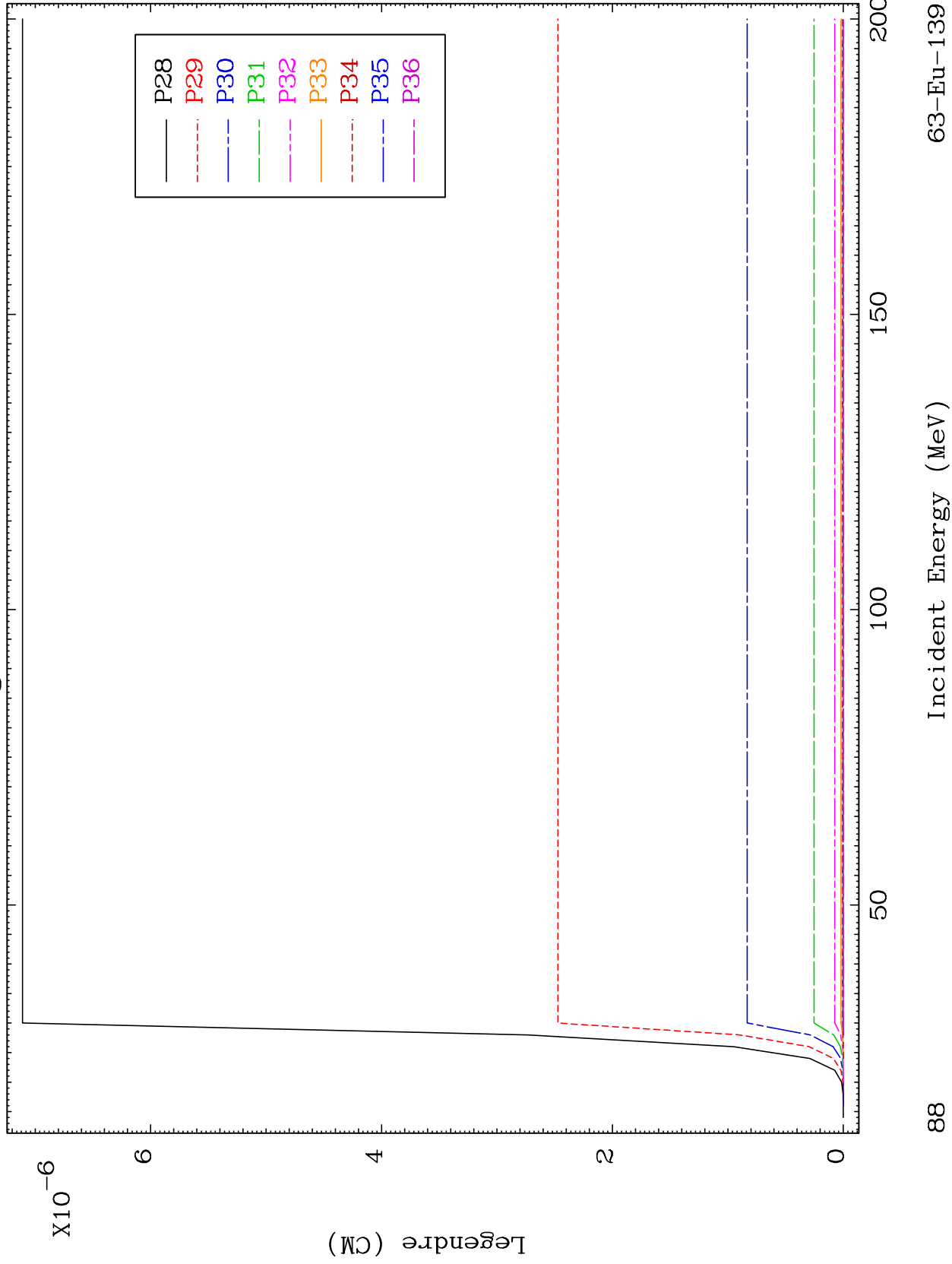
63-Eu-139



MAT 6289

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

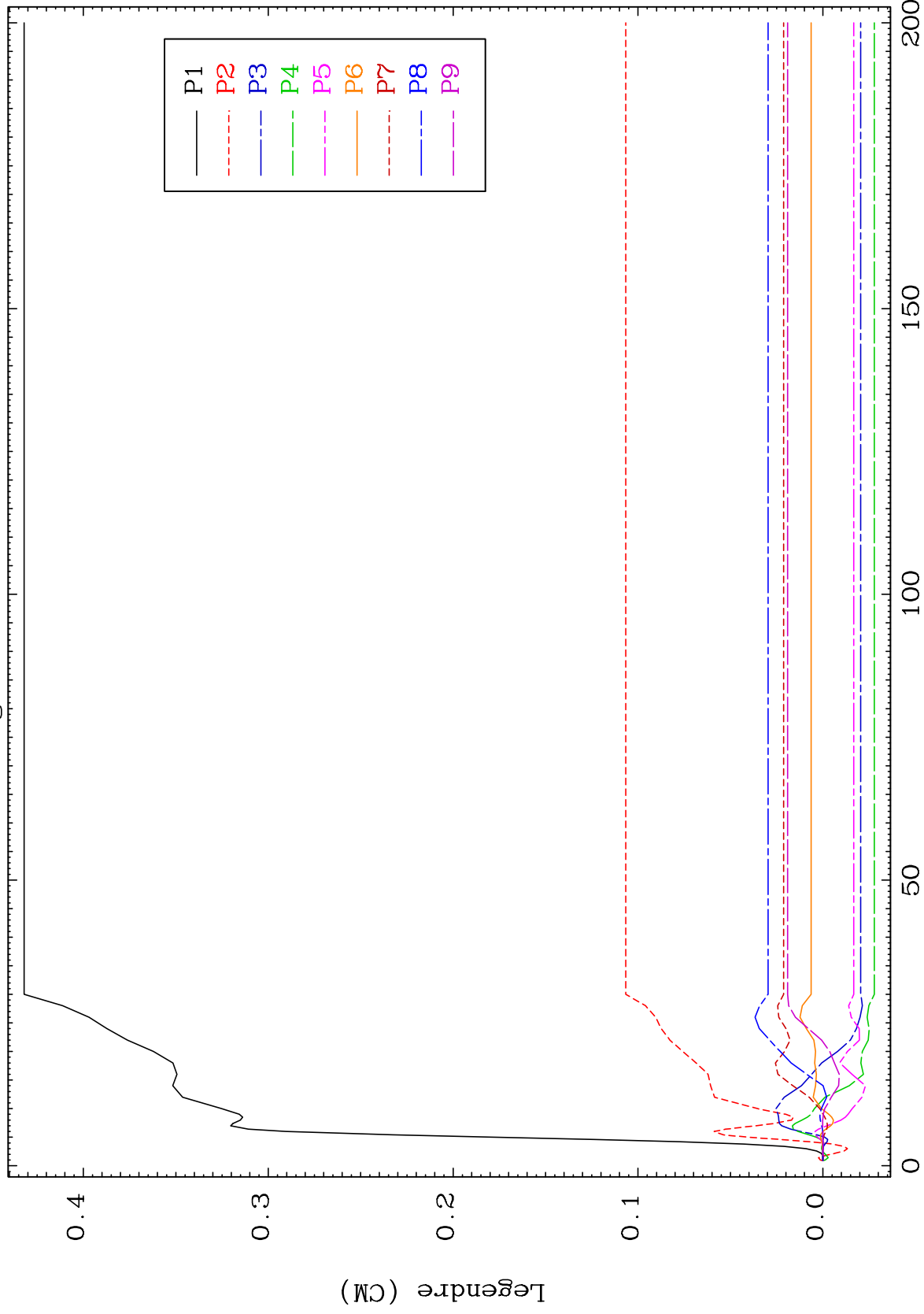
63-Eu-139



MAT 6289

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

63-Eu-139



89

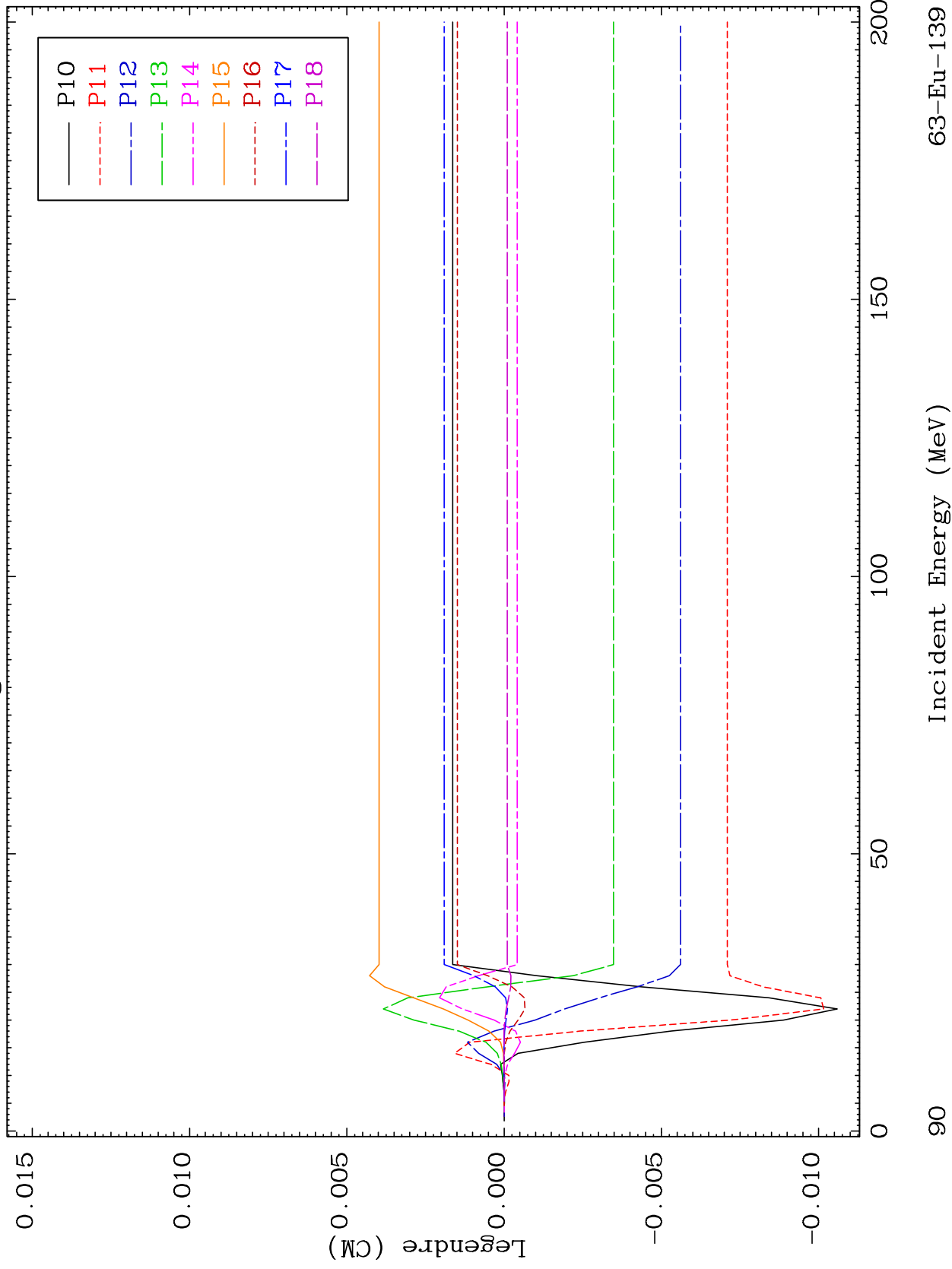
Incident Energy (MeV)

63-Eu-139

MAT 6289

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

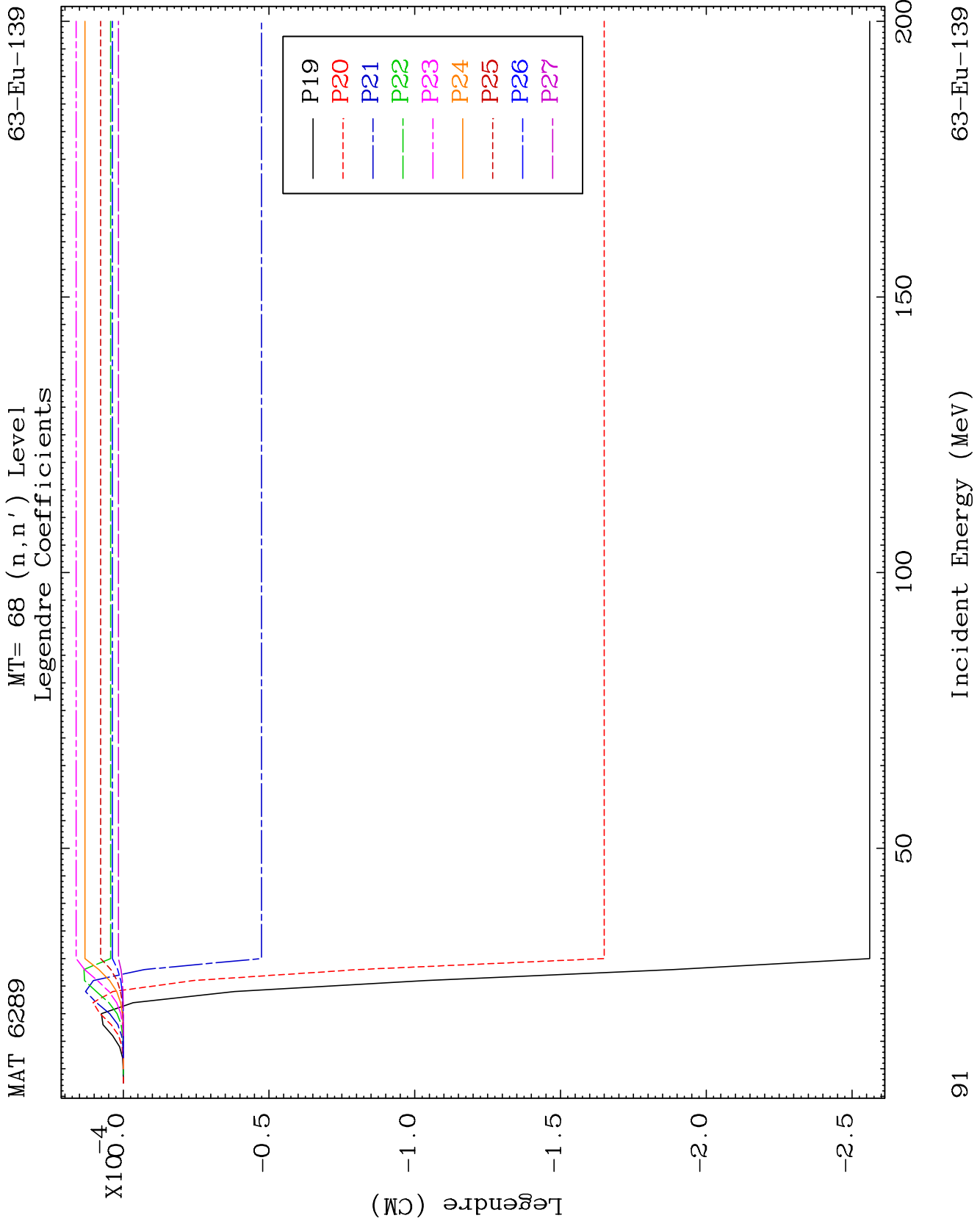
63-Eu-139



63-Eu-139

Incident Energy (MeV)

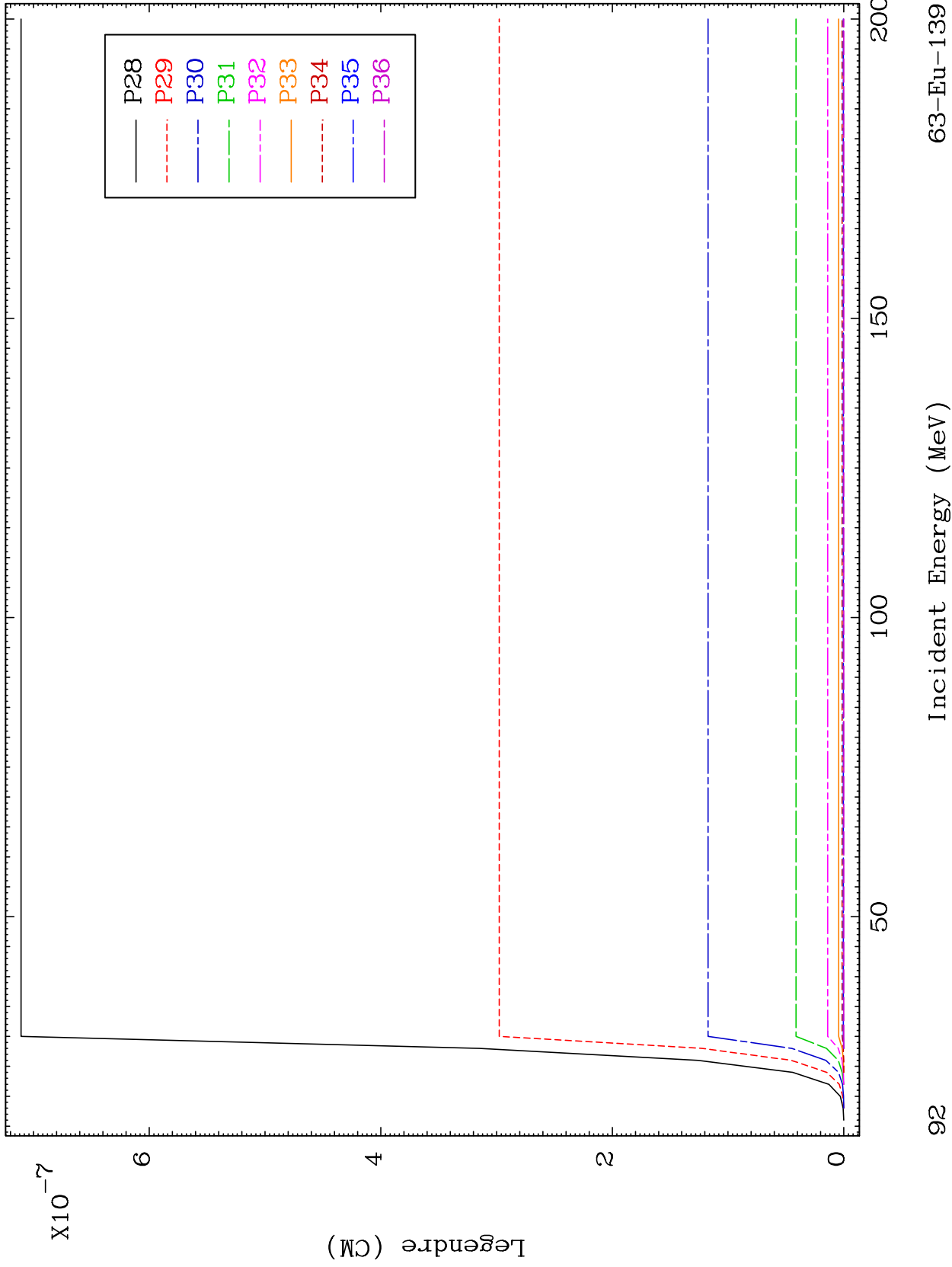
90



MAT 6289

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

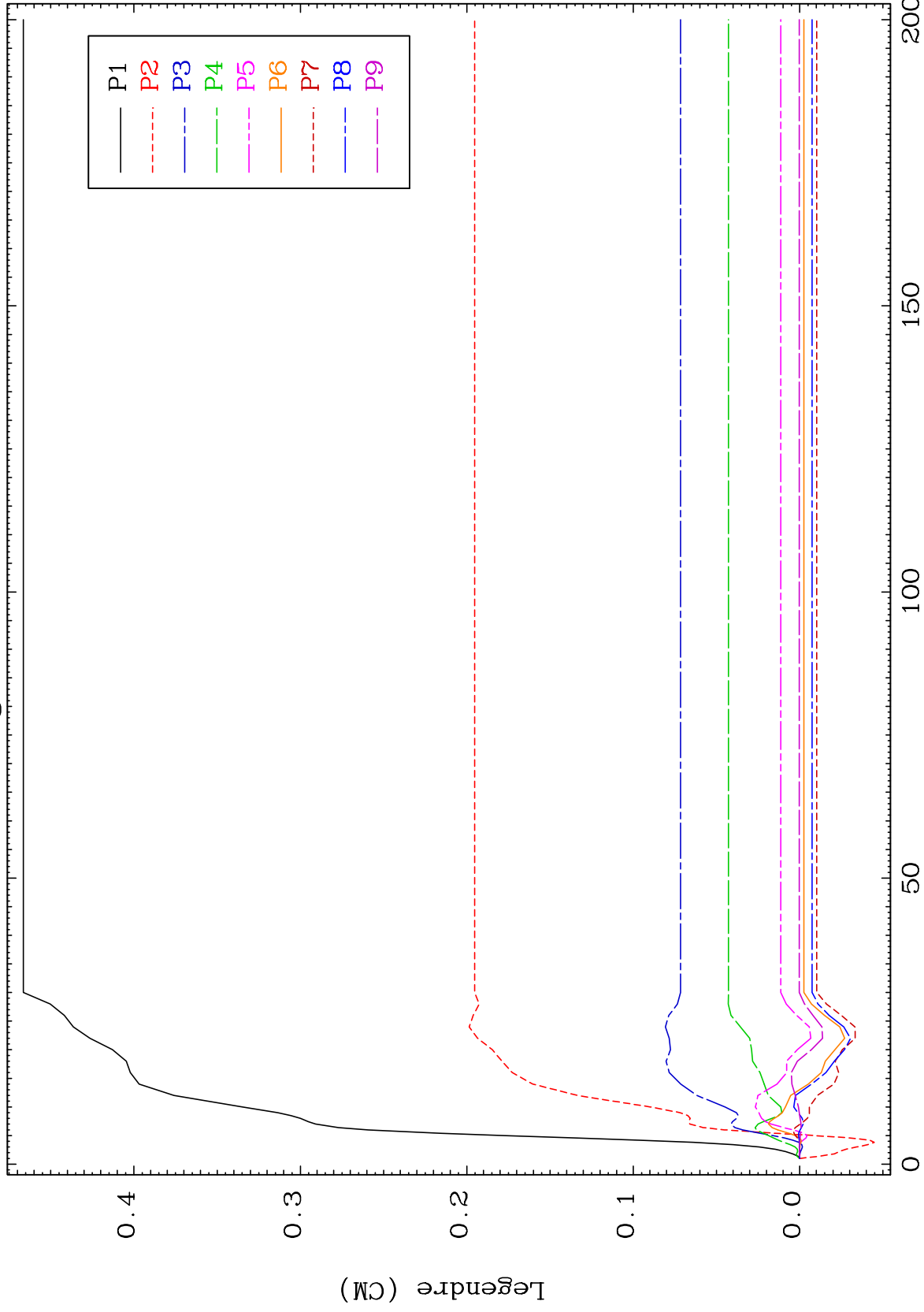
63-Eu-139



MAT 6289

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

63-Eu-139



93

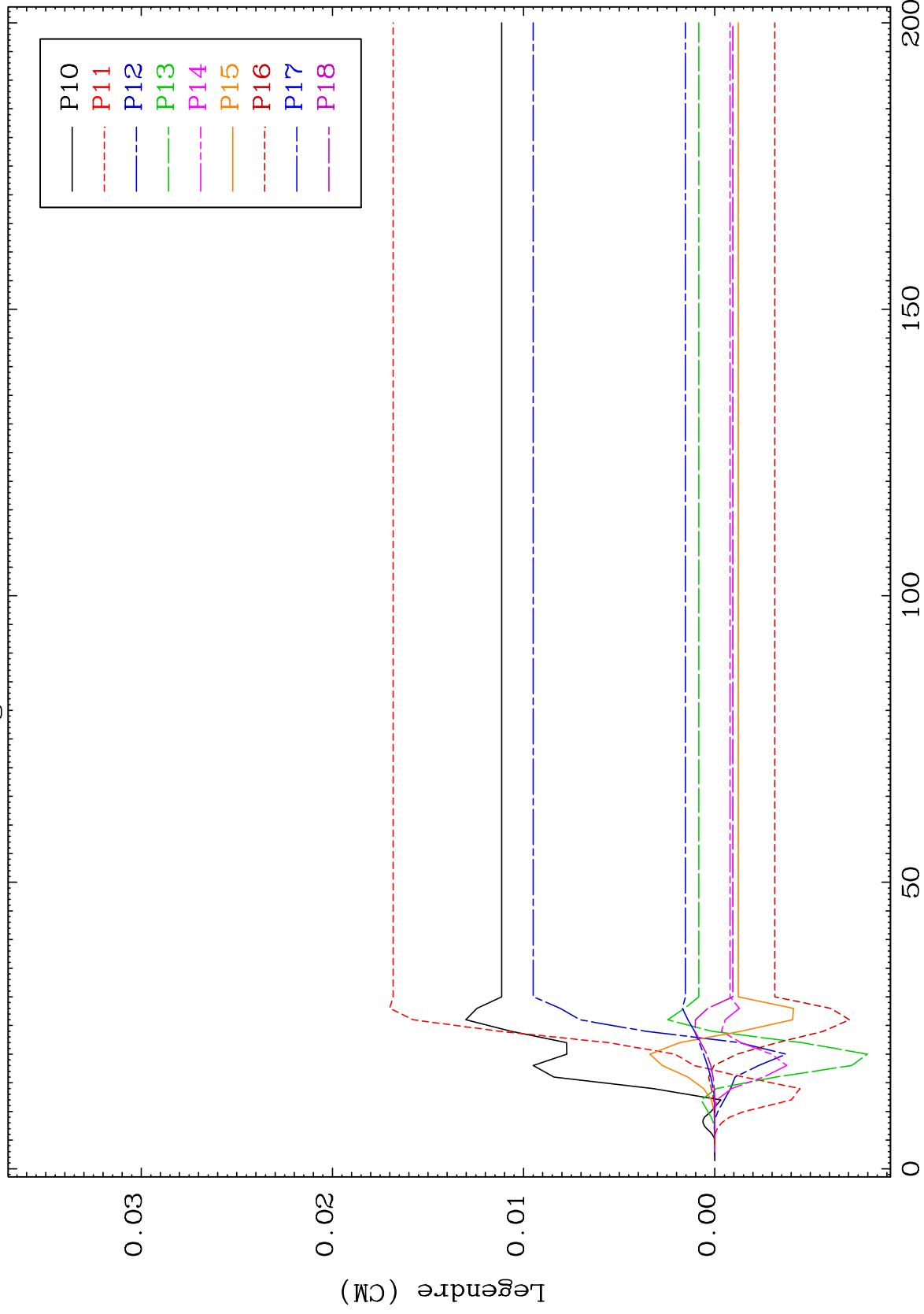
Incident Energy (MeV)

63-Eu-139

MAT 6289

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

63-Eu-139



94

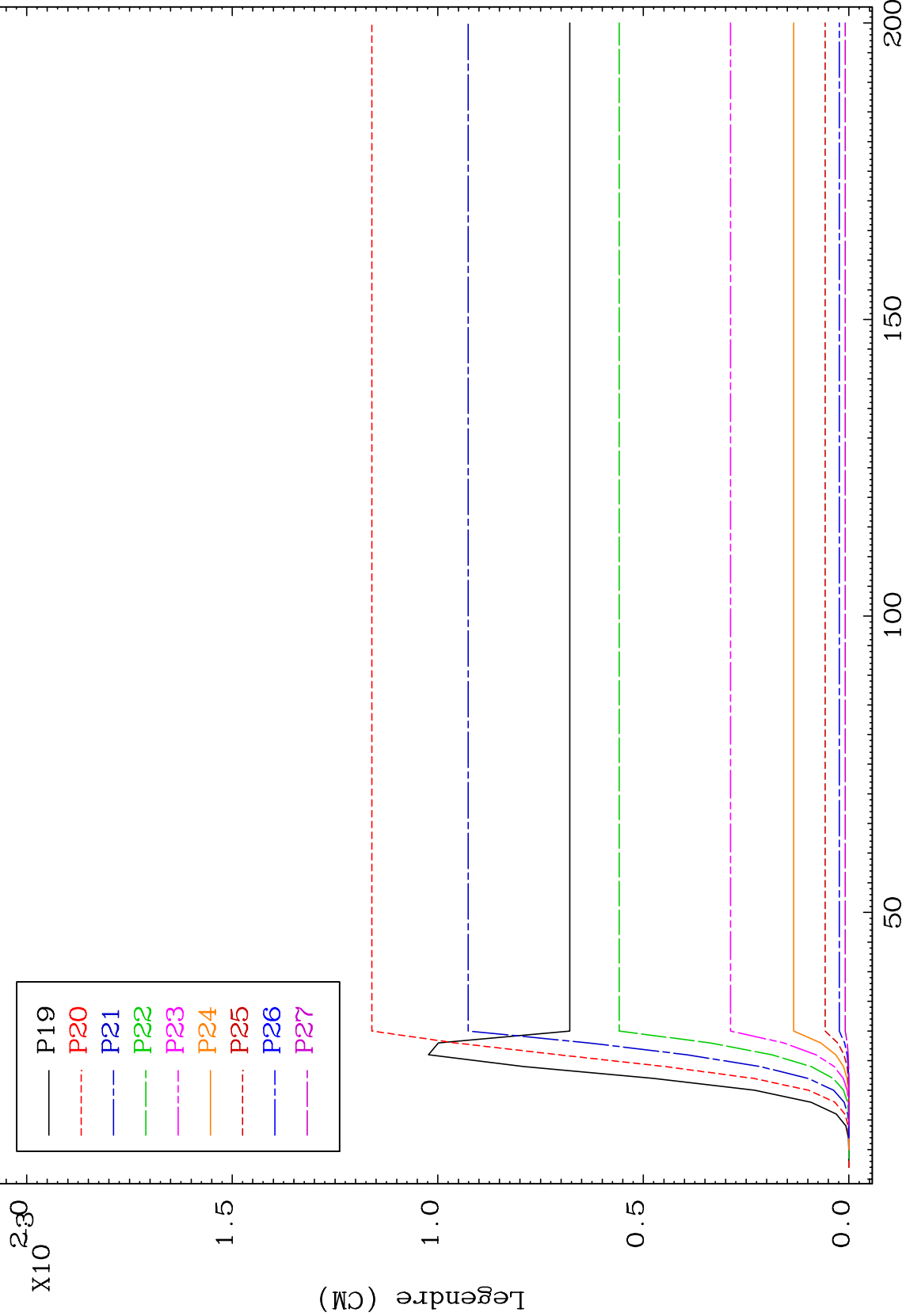
Incident Energy (MeV)

63-Eu-139

MAT 6289

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

63-Eu-139



95

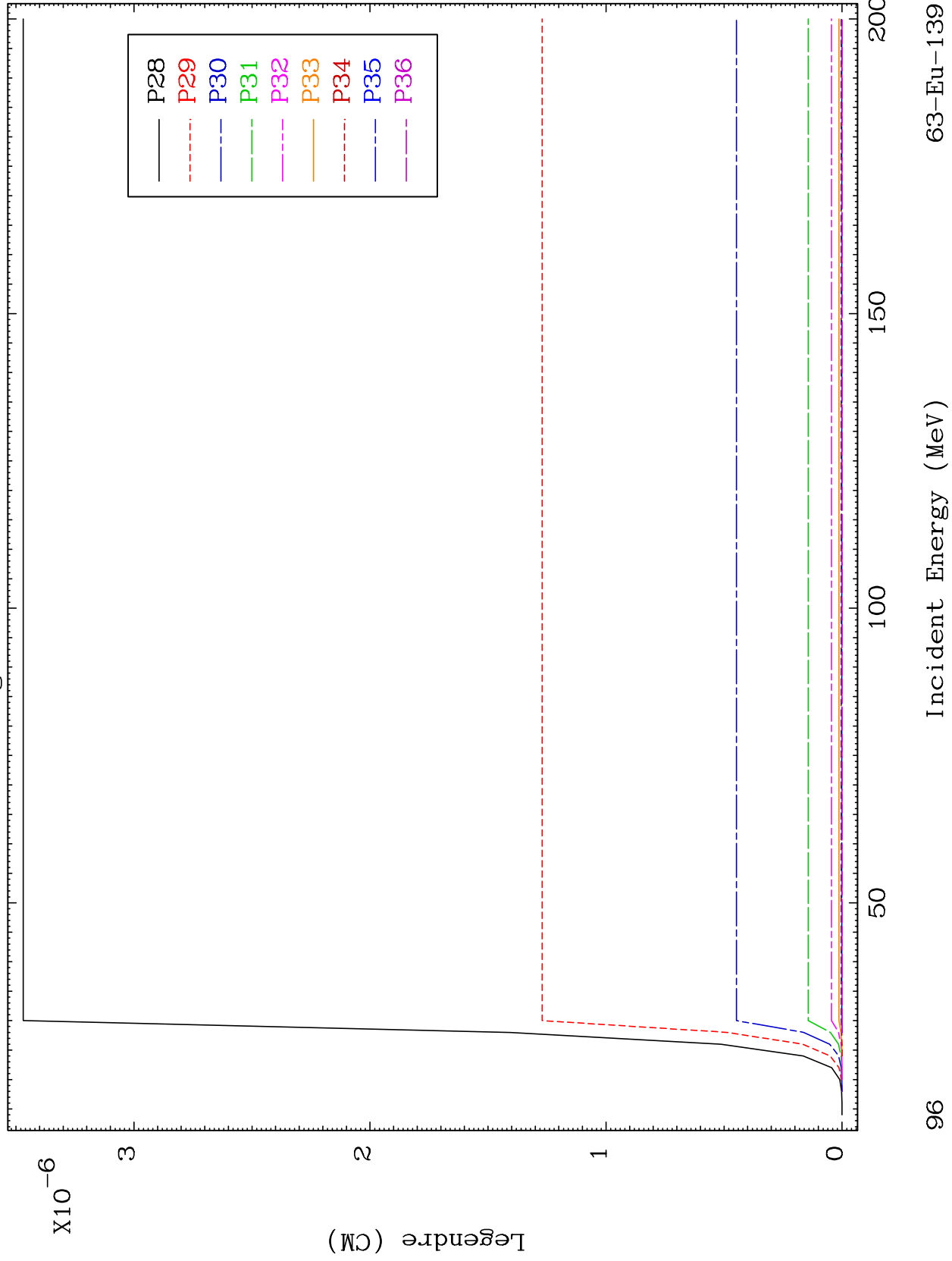
Incident Energy (MeV)

63-Eu-139

MAT 6289

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

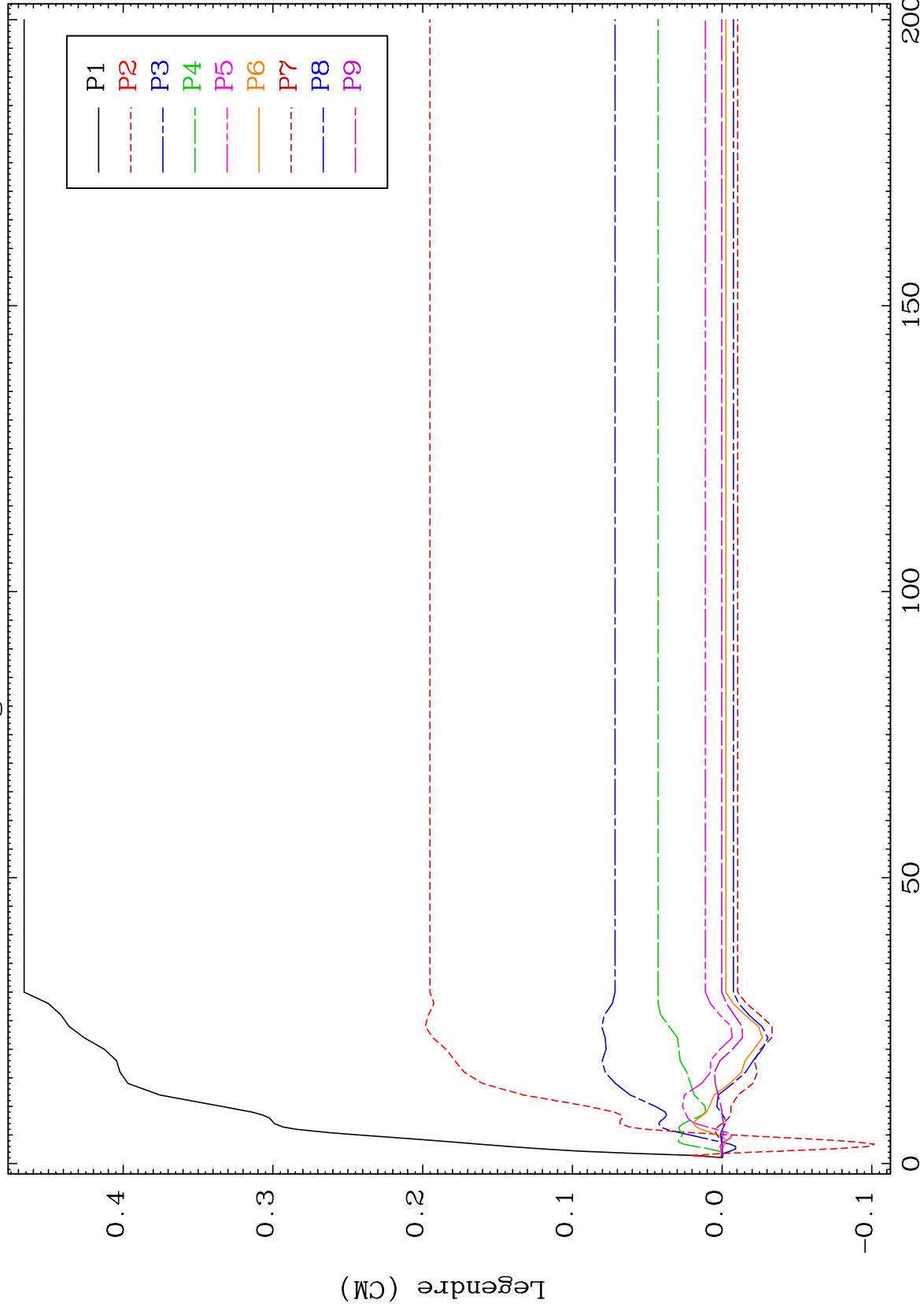
63-Eu-139



MAT 6289

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

63-Eu-139



97

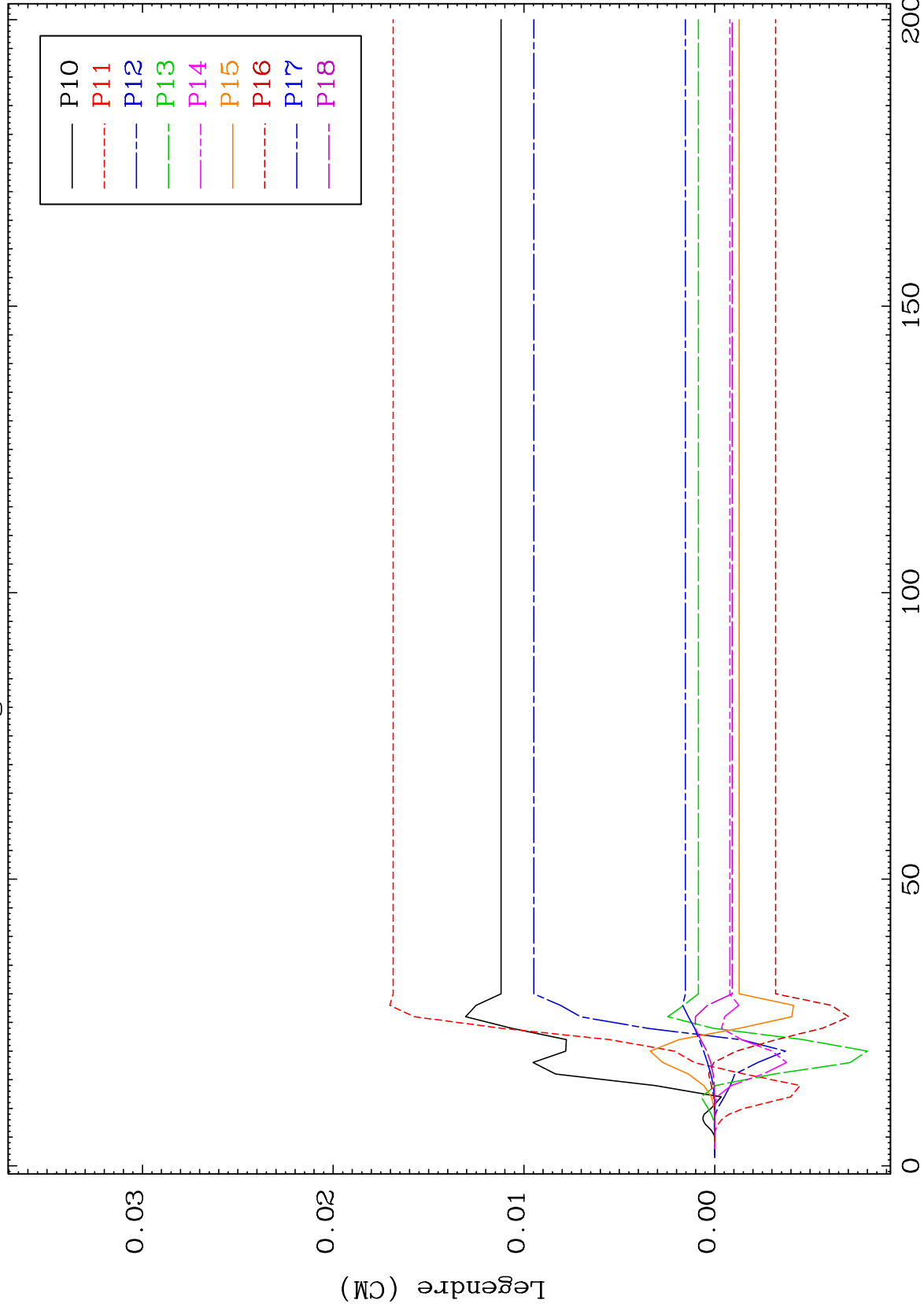
Incident Energy (MeV)

63-Eu-139

MAT 6289

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

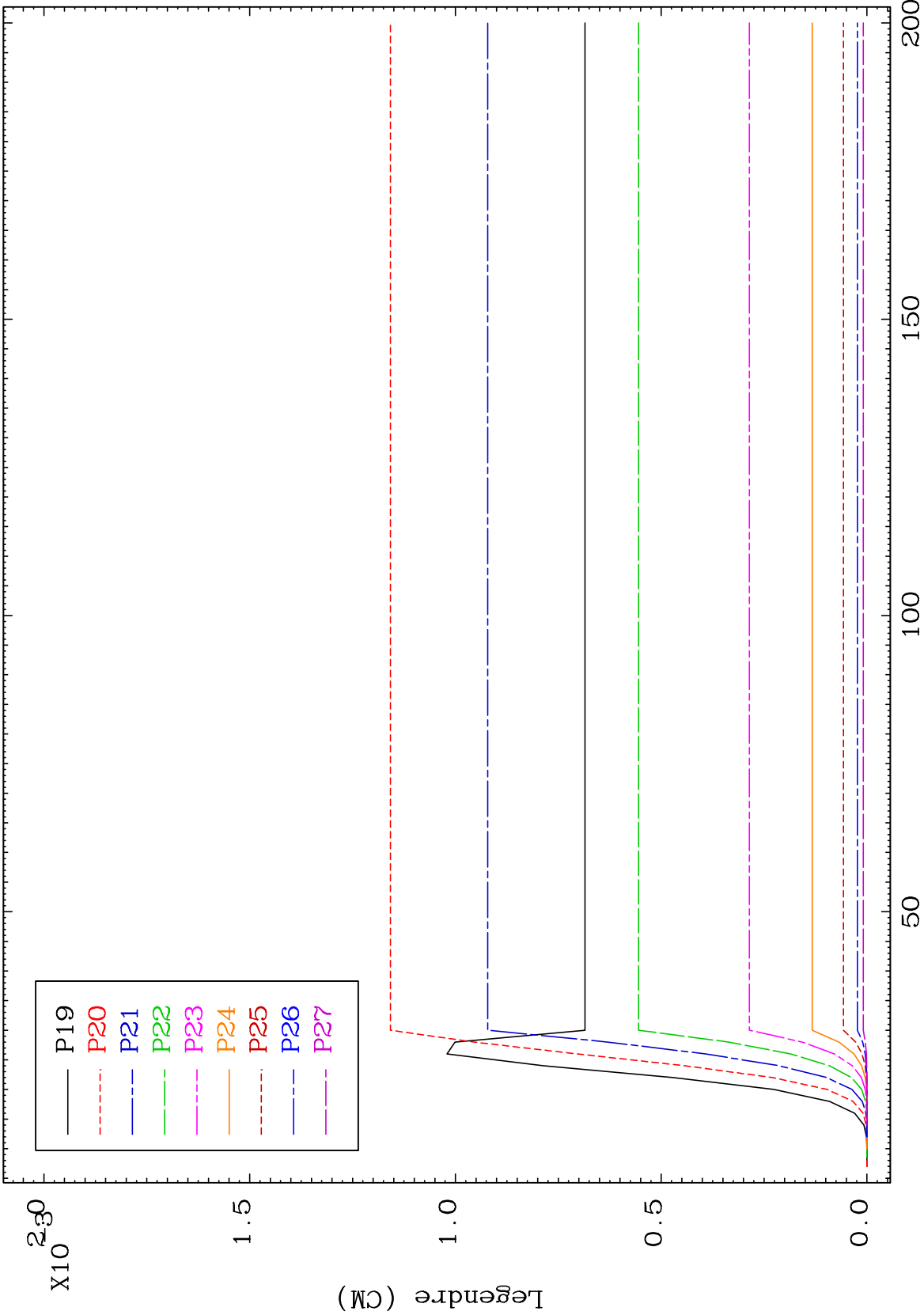
63-Eu-139



98

Incident Energy (MeV)

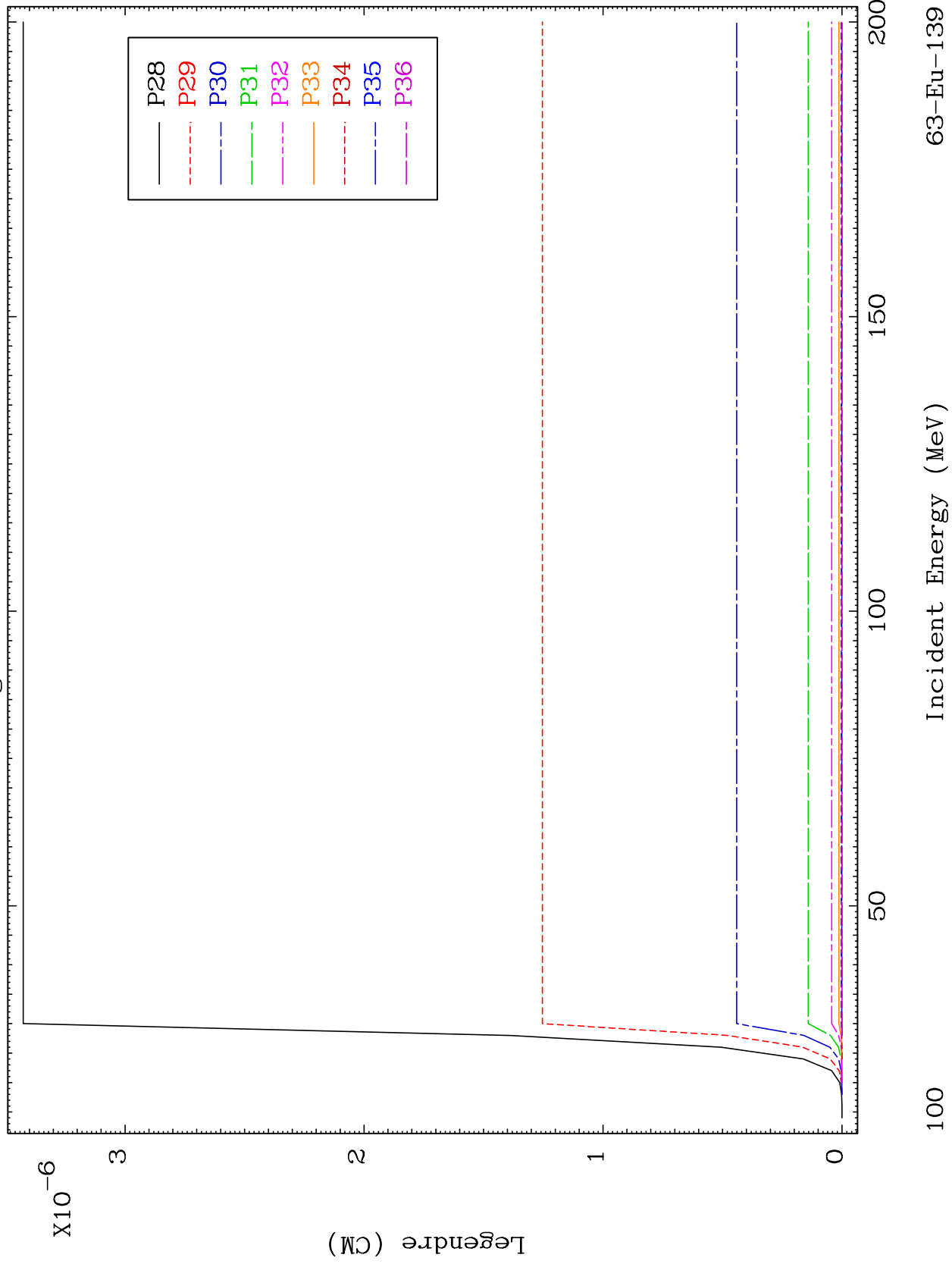
63-Eu-139



MAT 6289

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

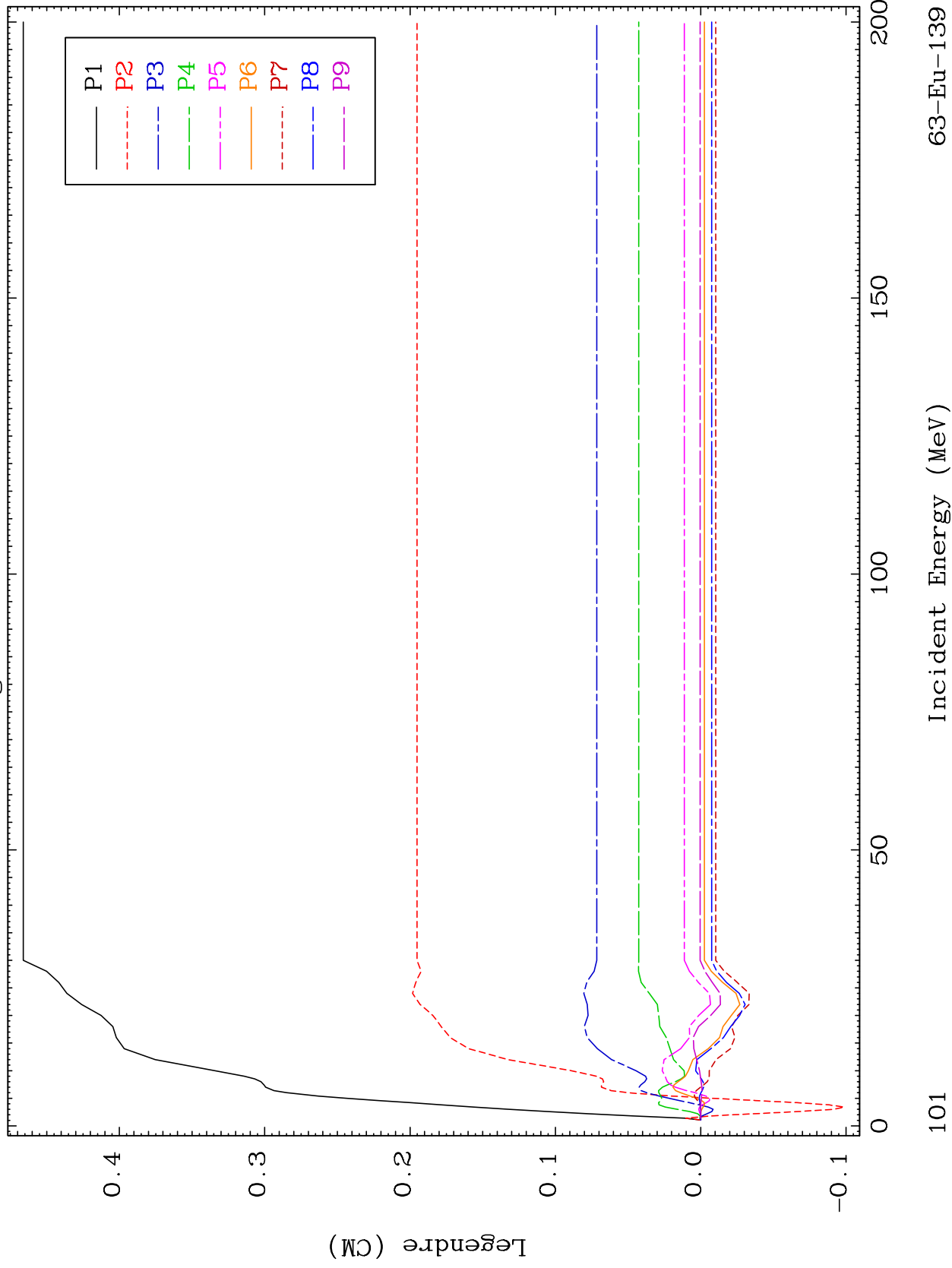
63-Eu-139



MAT 6289

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

63-Eu-139



63-Eu-139

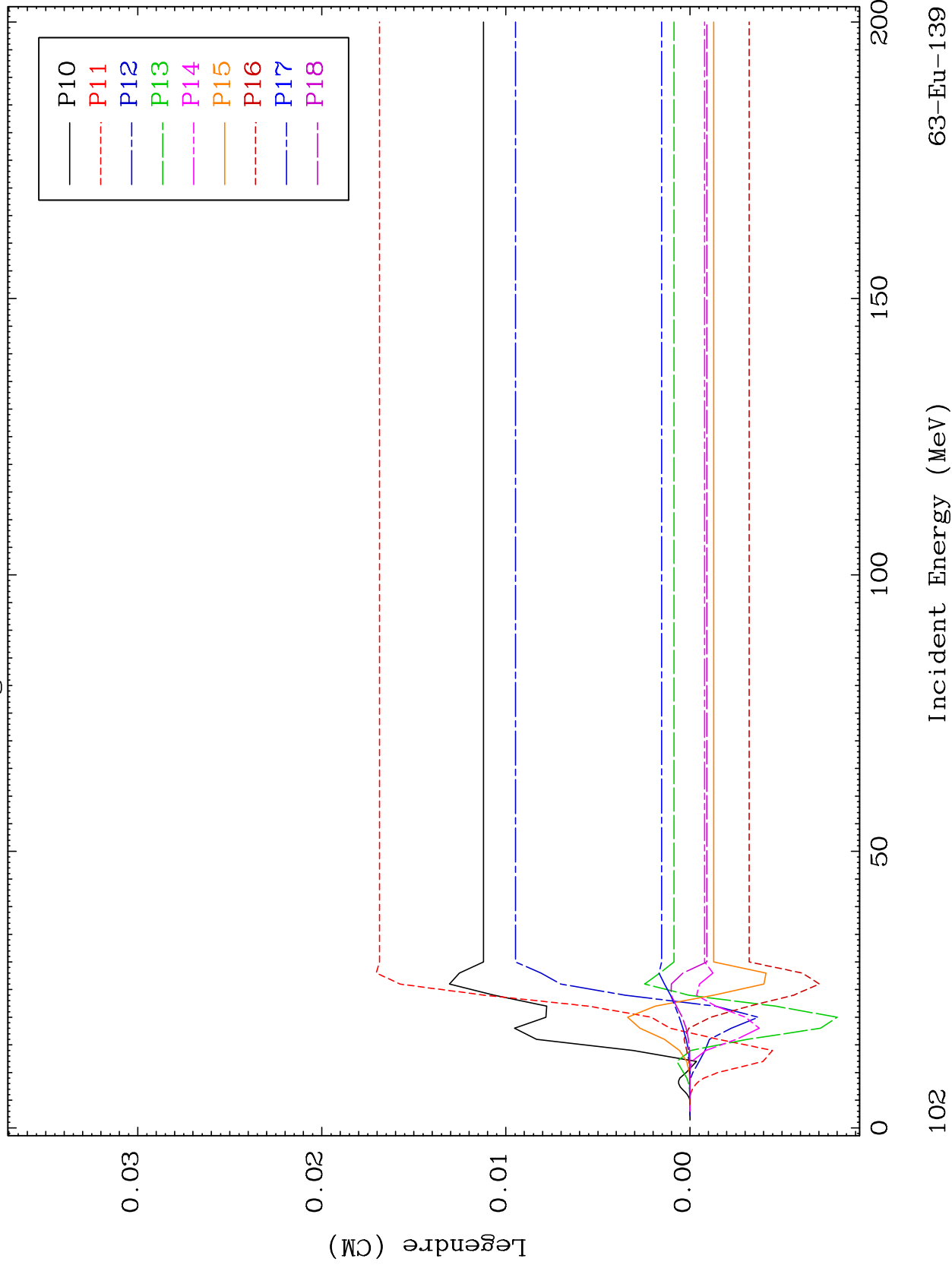
Incident Energy (MeV)

101

MAT 6289

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

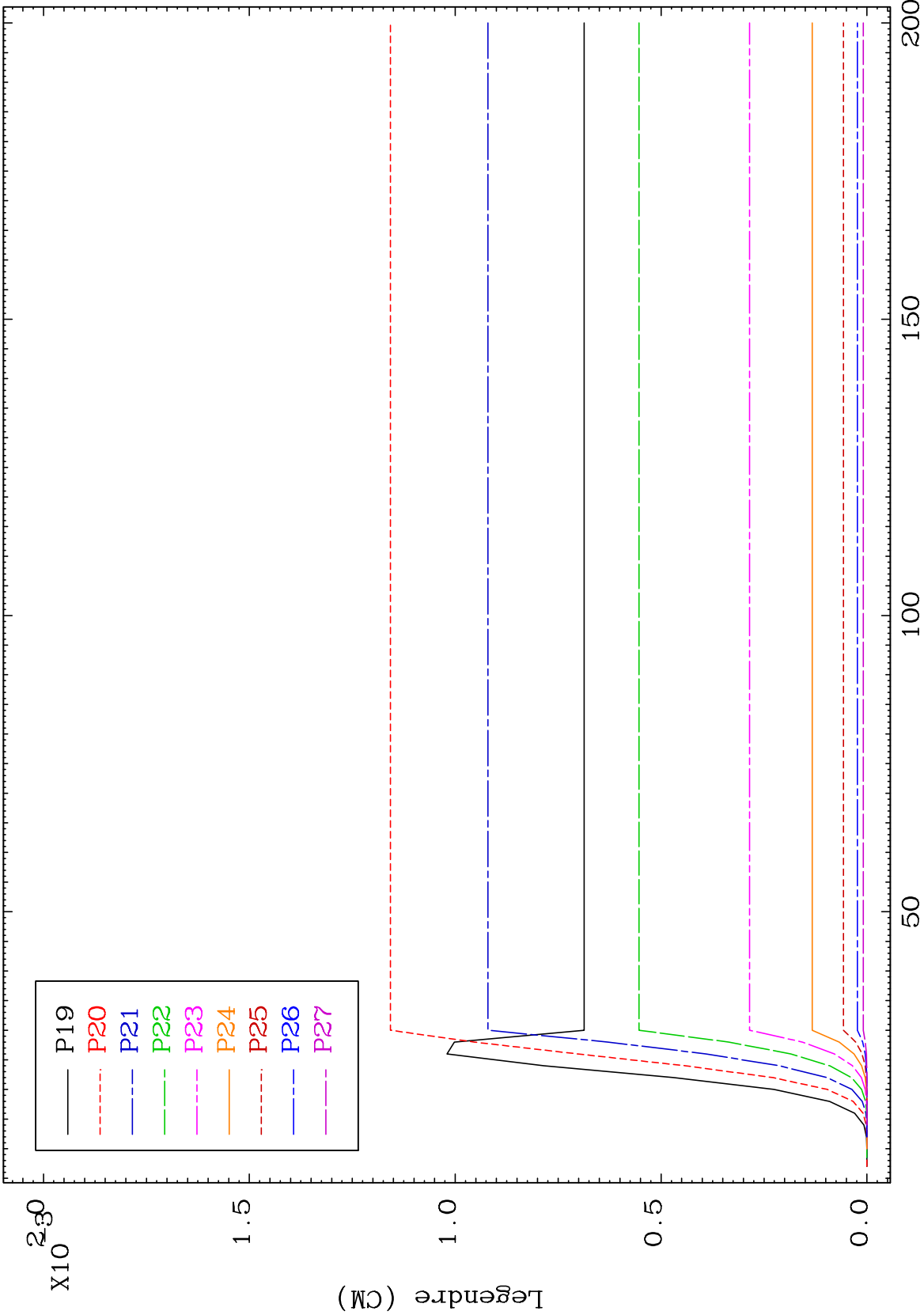
63-Eu-139



102

Incident Energy (MeV)

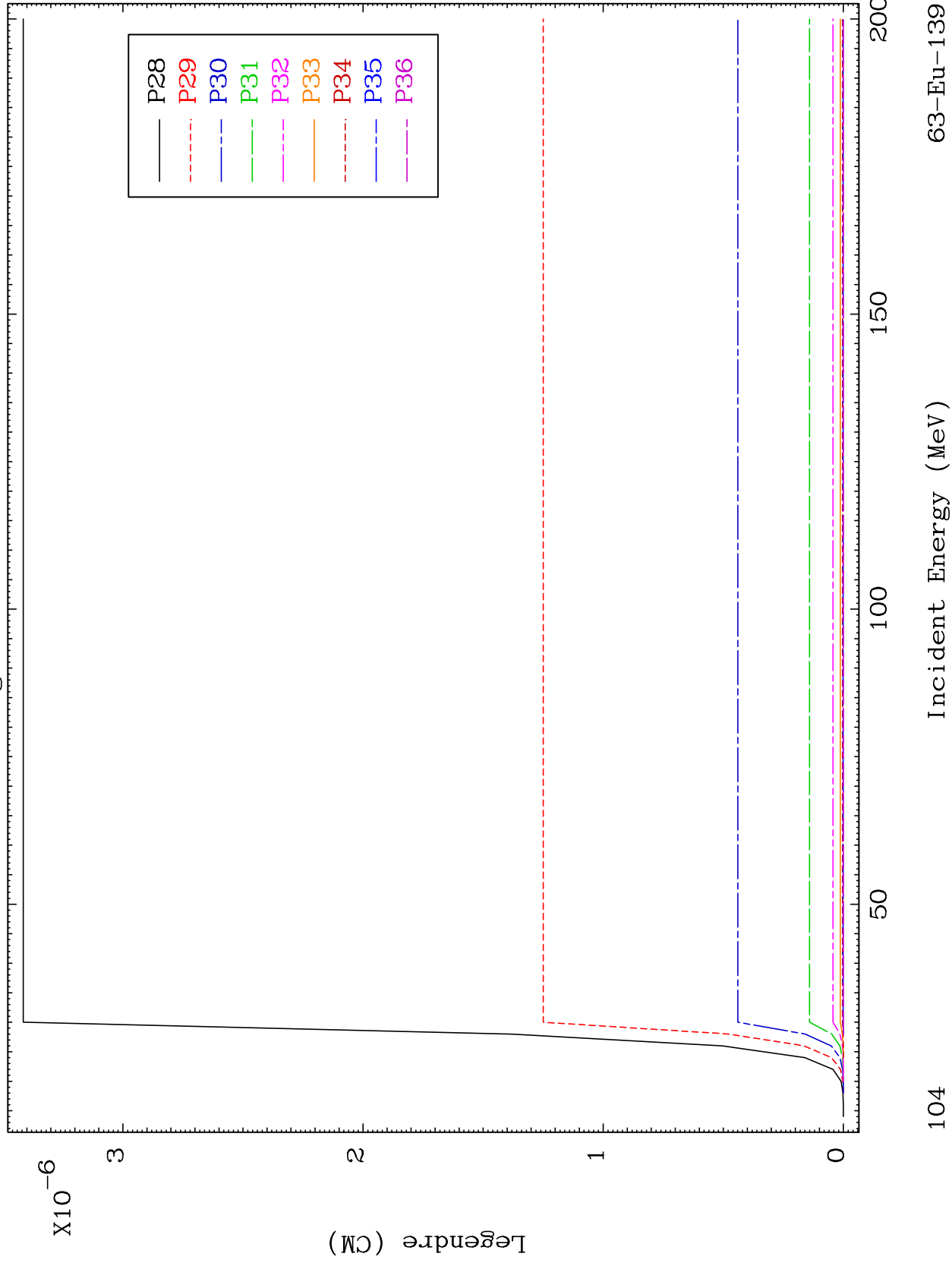
63-Eu-139



MAT 6289

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

63-Eu-139



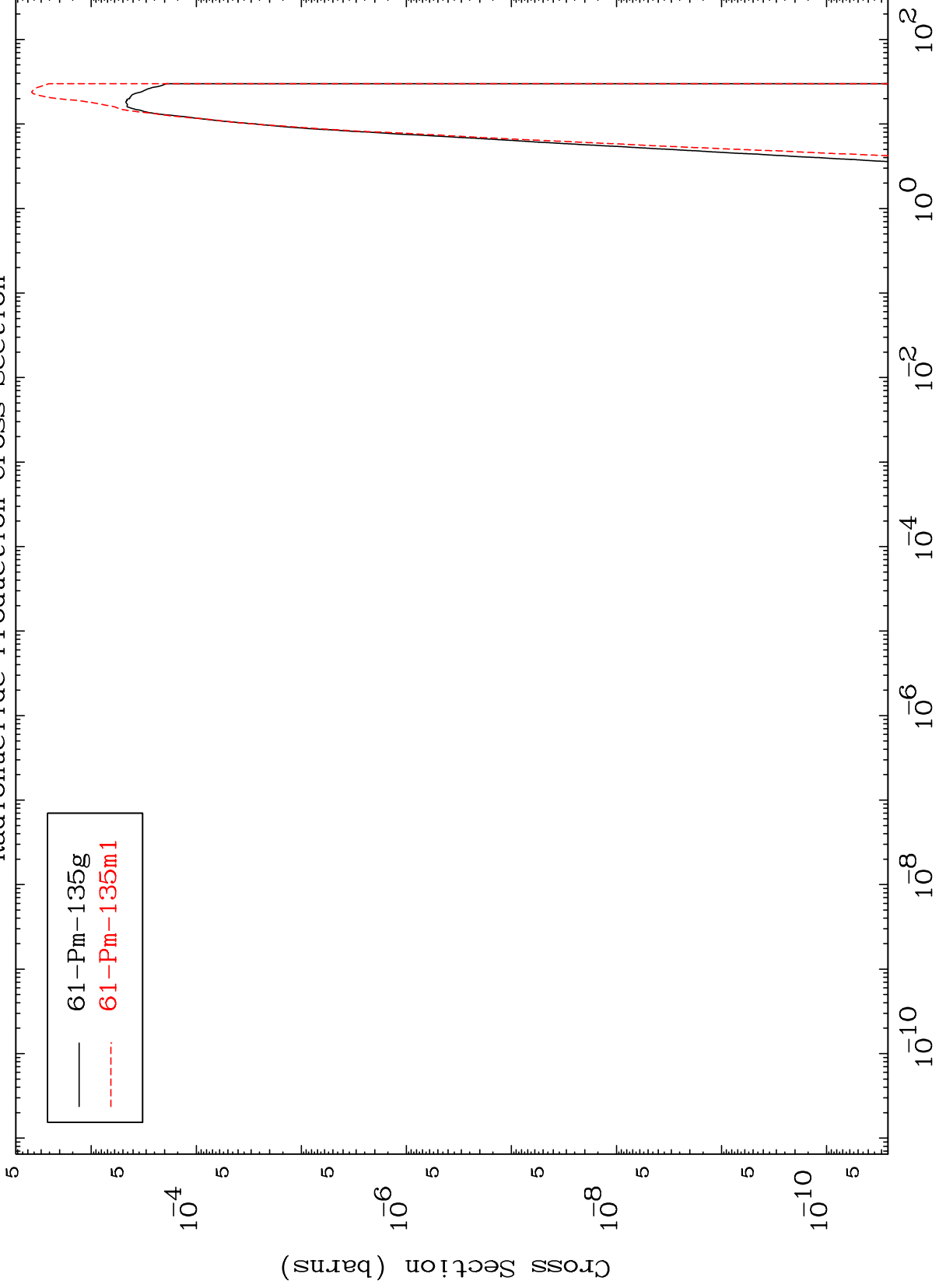
104

MAT 6289

$(n, n') \alpha$

63-Eu-139

Radionuclide Production Cross Section



61-Pm-135g
61-Pm-135m1

105

Incident Energy (MeV)

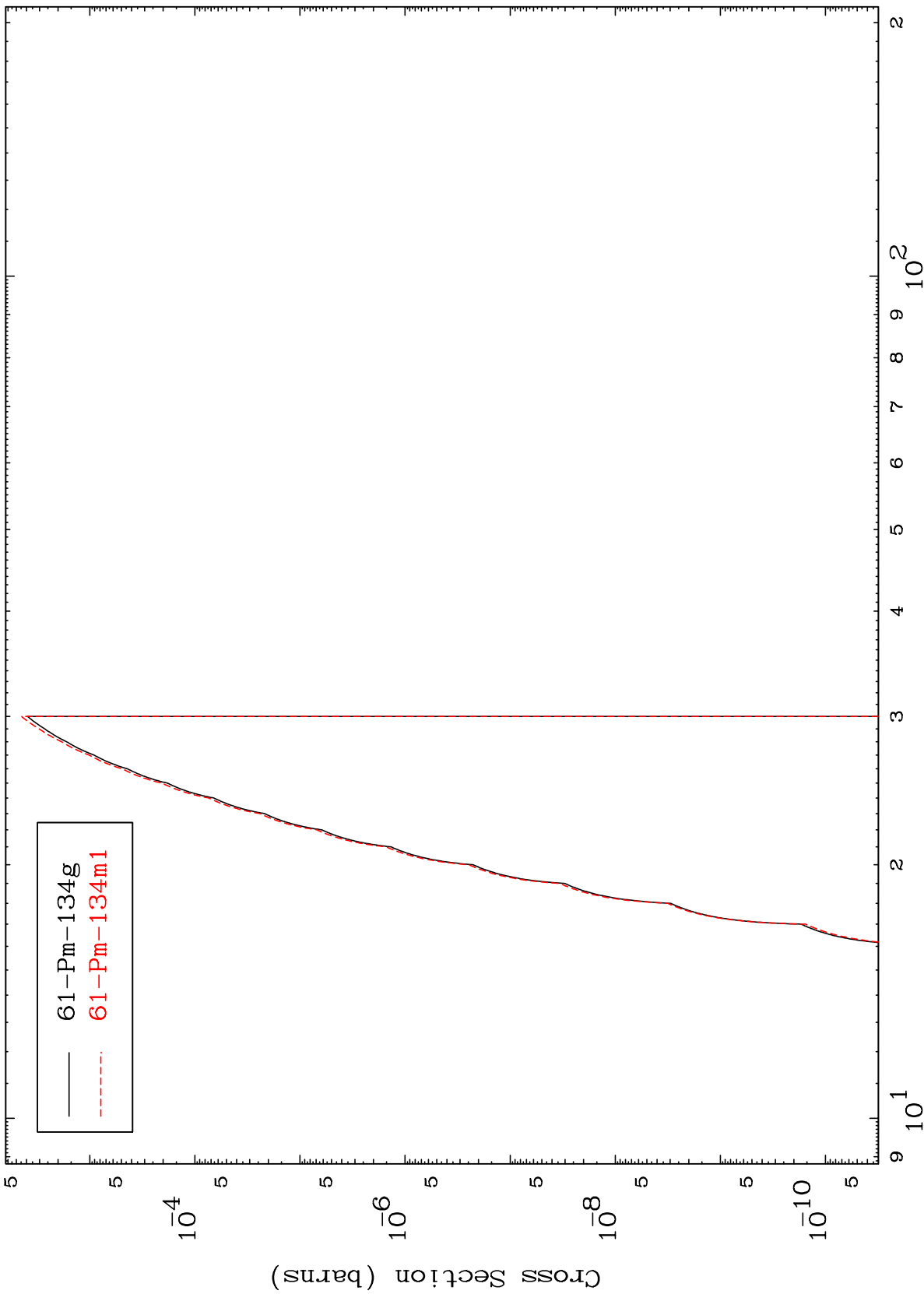
63-Eu-139

MAT 6289

(n,2n) α

63-Eu-139

Radionuclide Production Cross Section



106

Incident Energy (MeV)

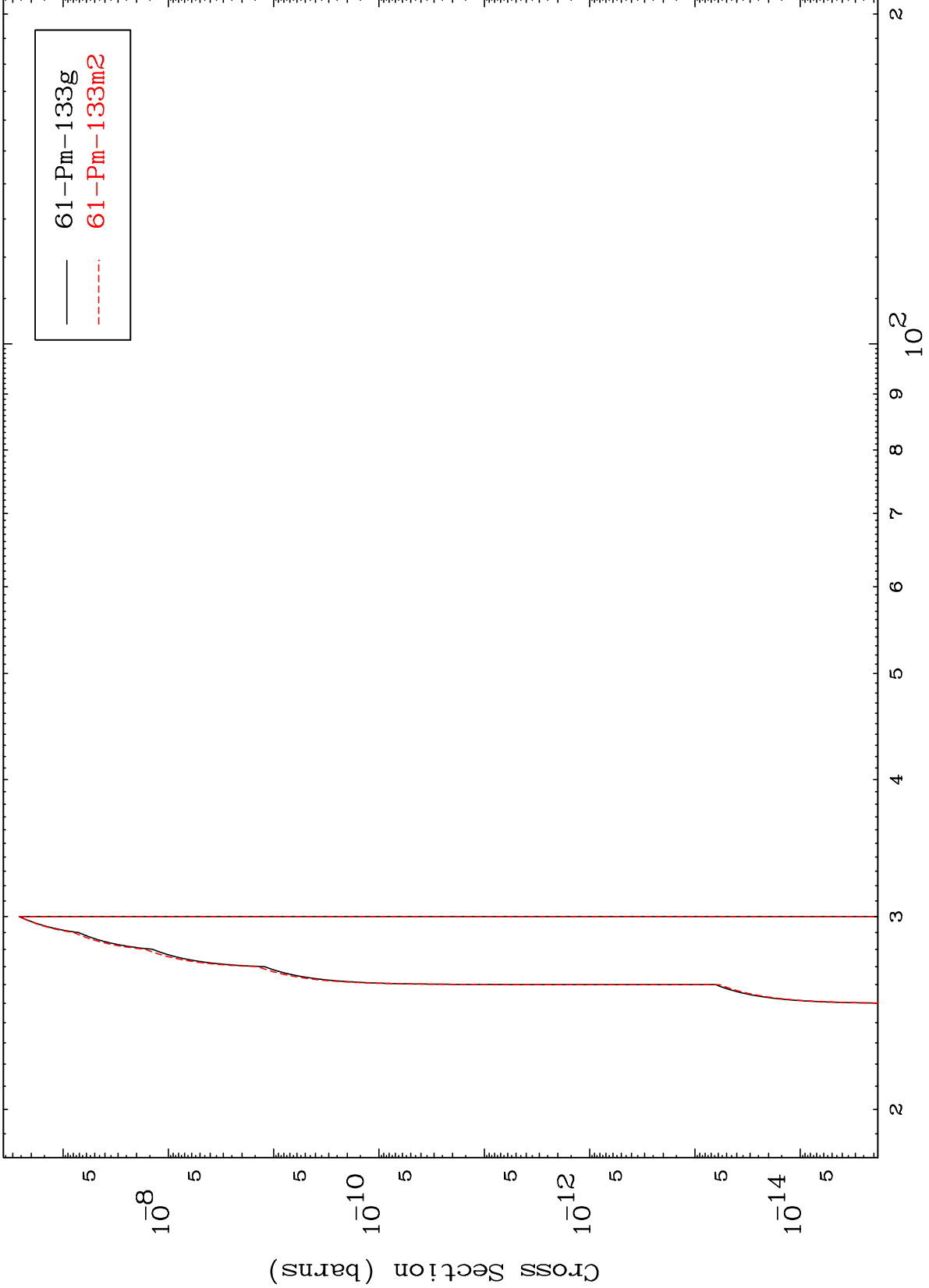
63-Eu-139

MAT 6289

(n,3n) α

63-Eu-139

Radionuclide Production Cross Section



61-Pm-133g
61-Pm-133m2

107

Incident Energy (MeV)

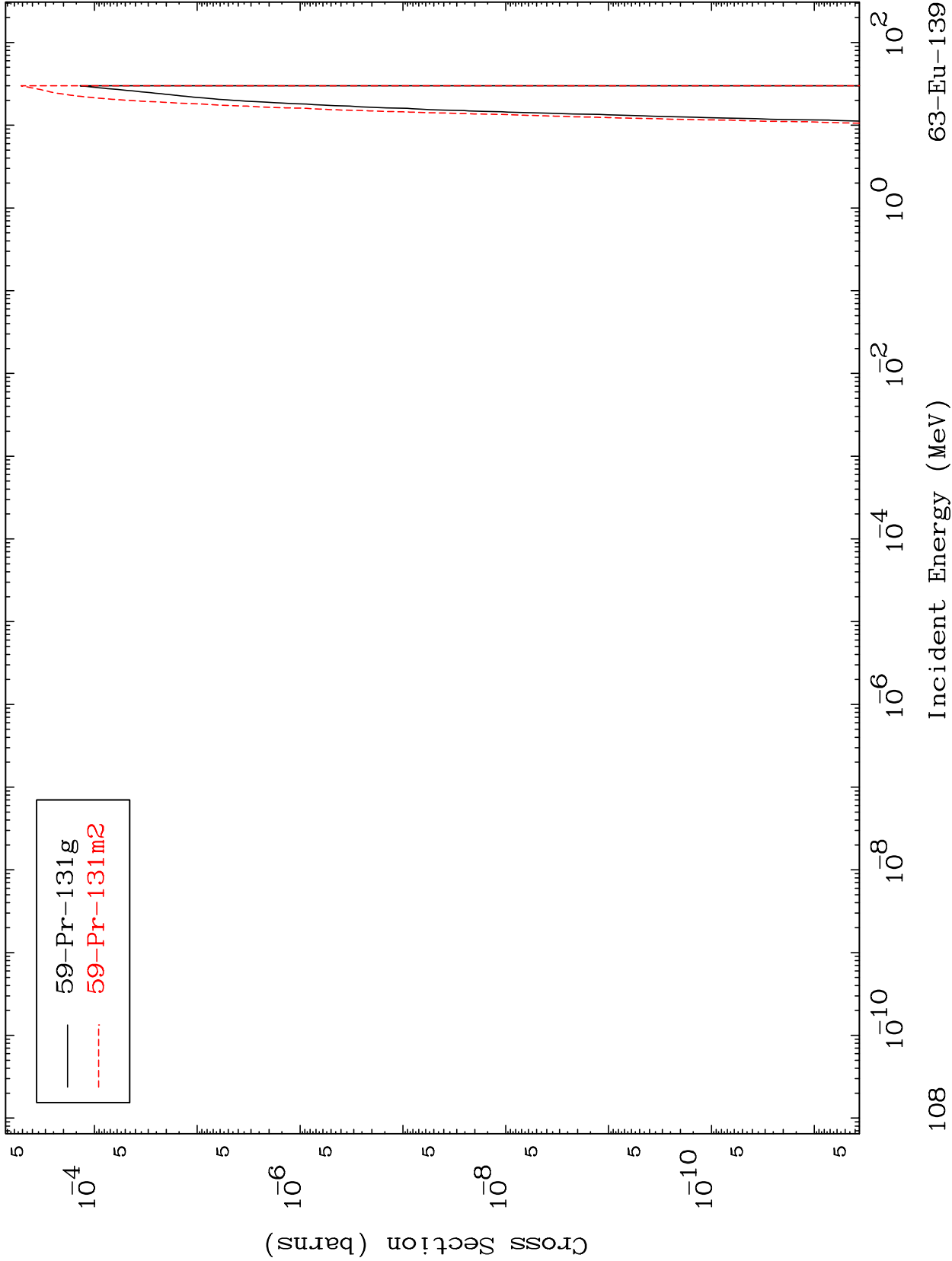
63-Eu-139

MAT 6289

(n,n') 2 α

63-Eu-139

Radionuclide Production Cross Section



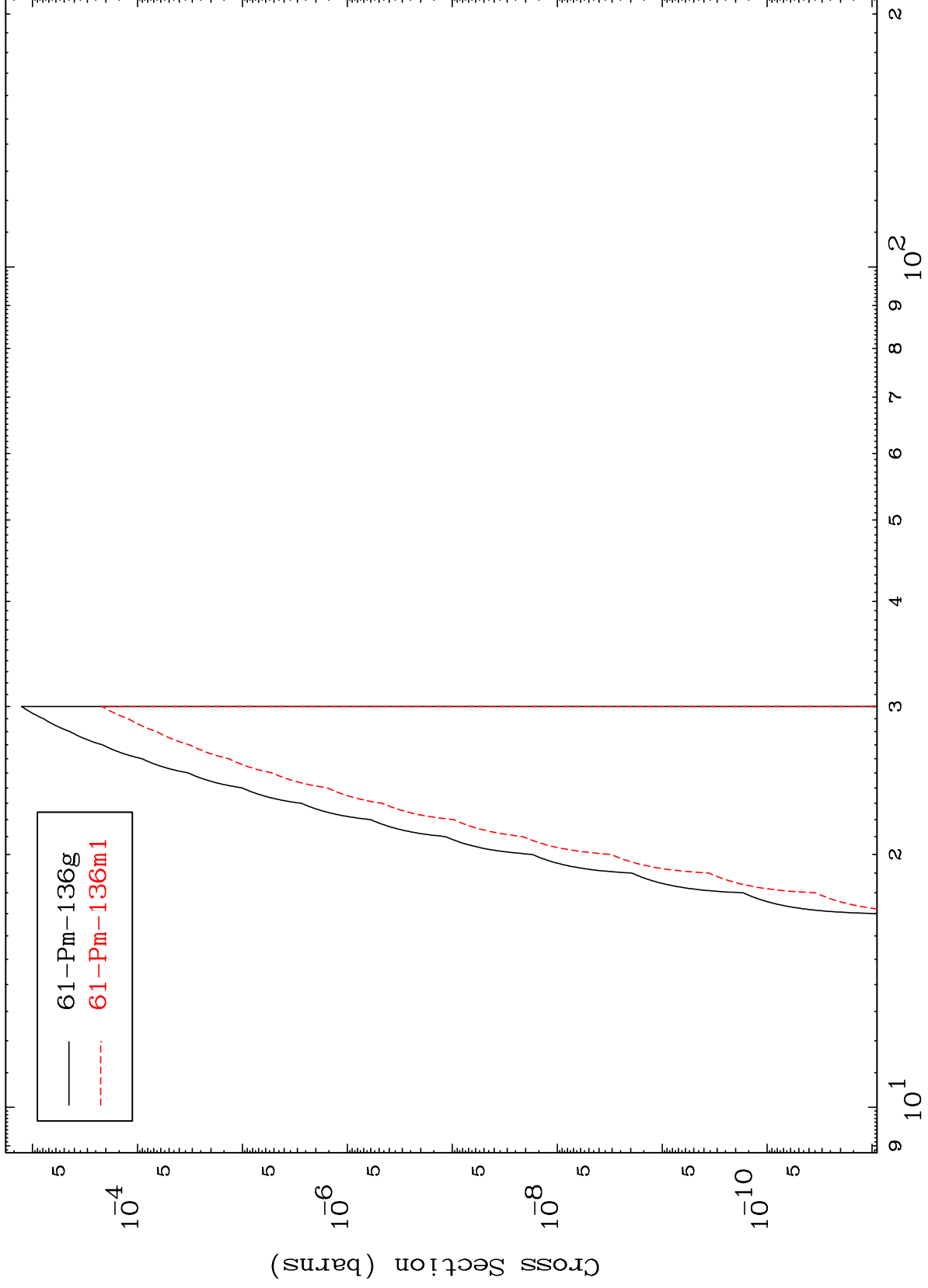
59-Pr-131g
59-Pr-131m2

MAT 6289

(n,n') He-3

63-Eu-139

Radionuclide Production Cross Section



61-Pm-136g
61-Pm-136m1

109

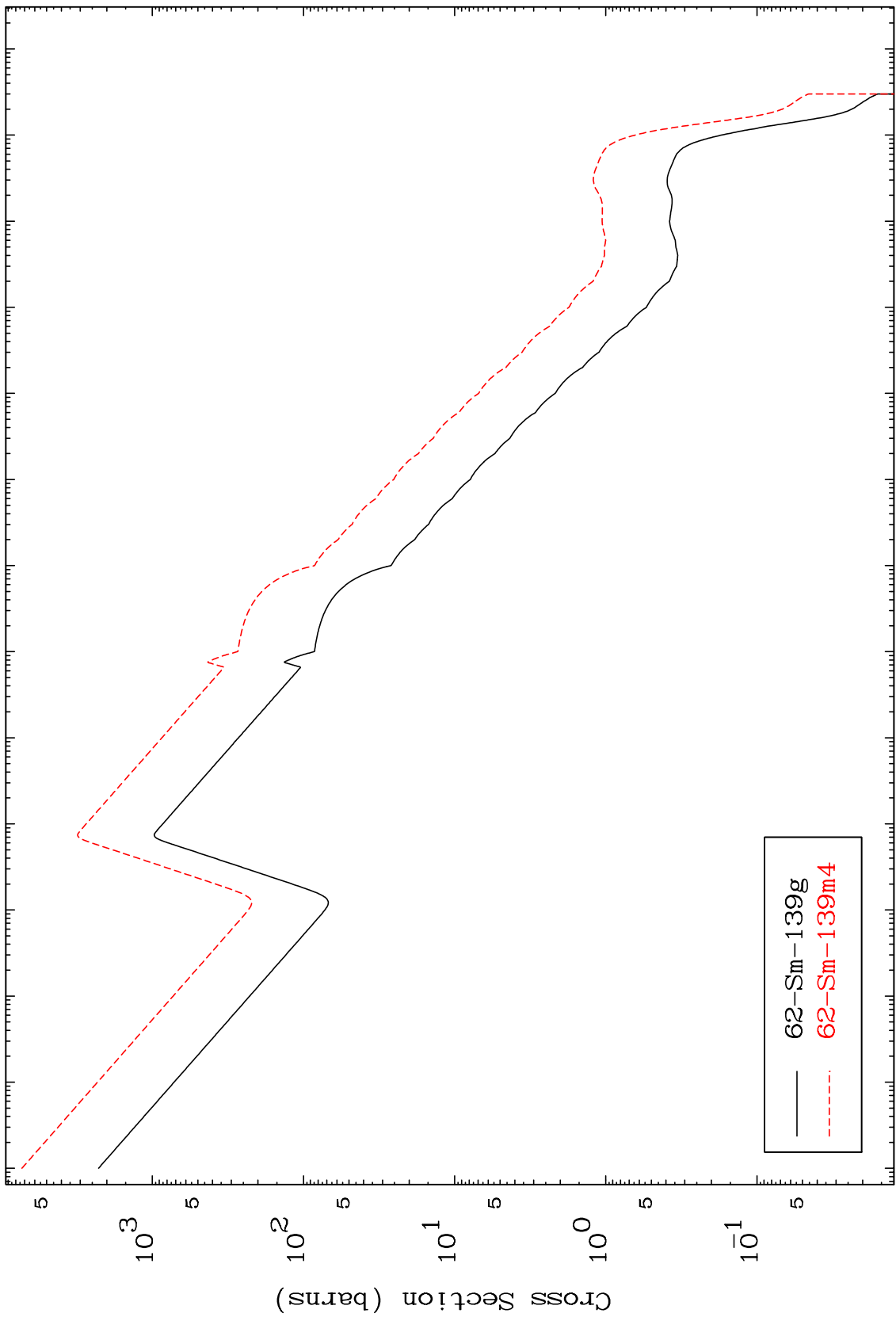
Incident Energy (MeV)

63-Eu-139

MAT 6289

63-Eu-139

(n,p)
Radionuclide Production Cross Section

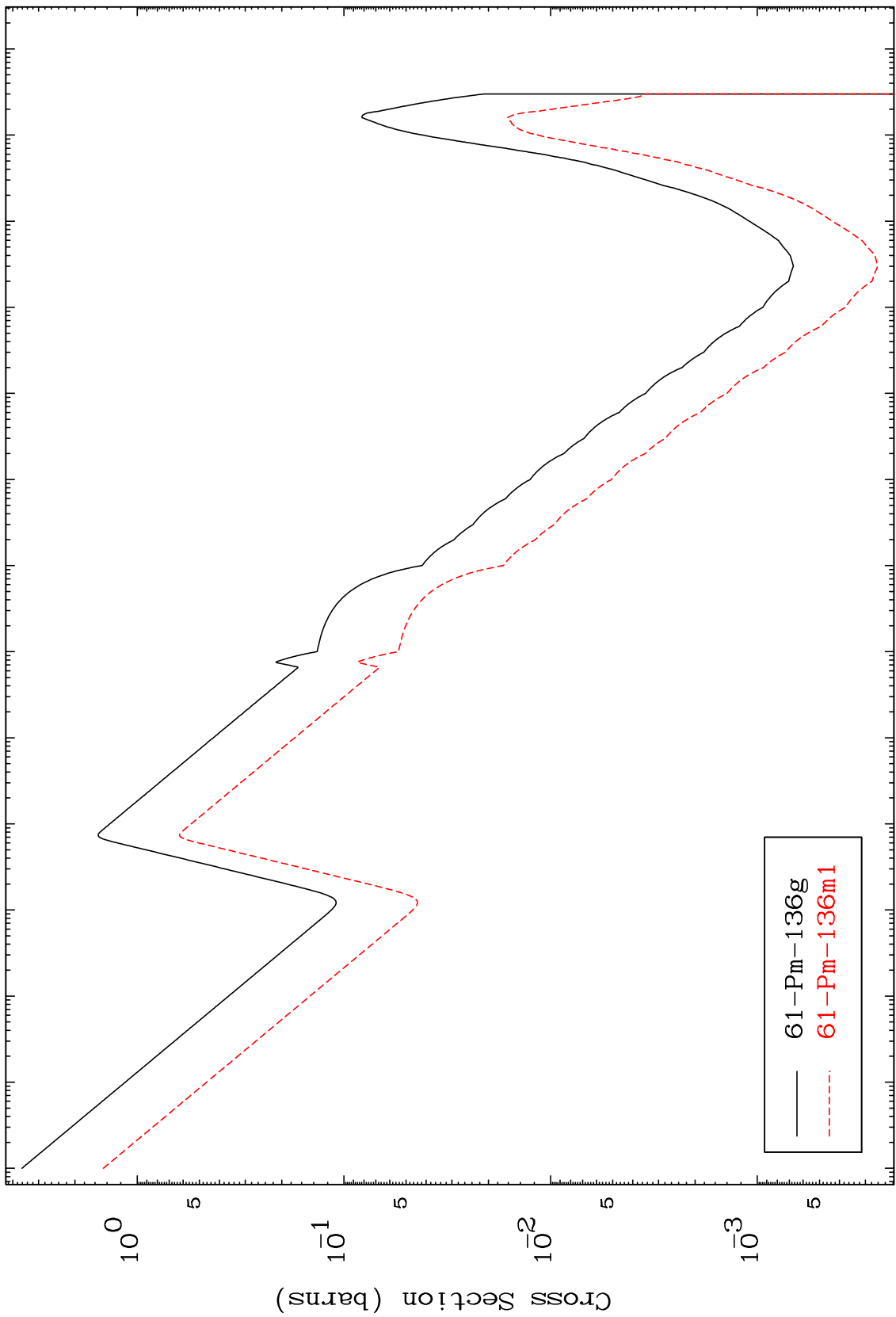


— 62-Sm-139g
- - - 62-Sm-139m4

MAT 6289

63-Eu-139

Radionuclide Production Cross Section
(n, α)



— 61-Pm-136g
- - - 61-Pm-136m1

111

Incident Energy (MeV)

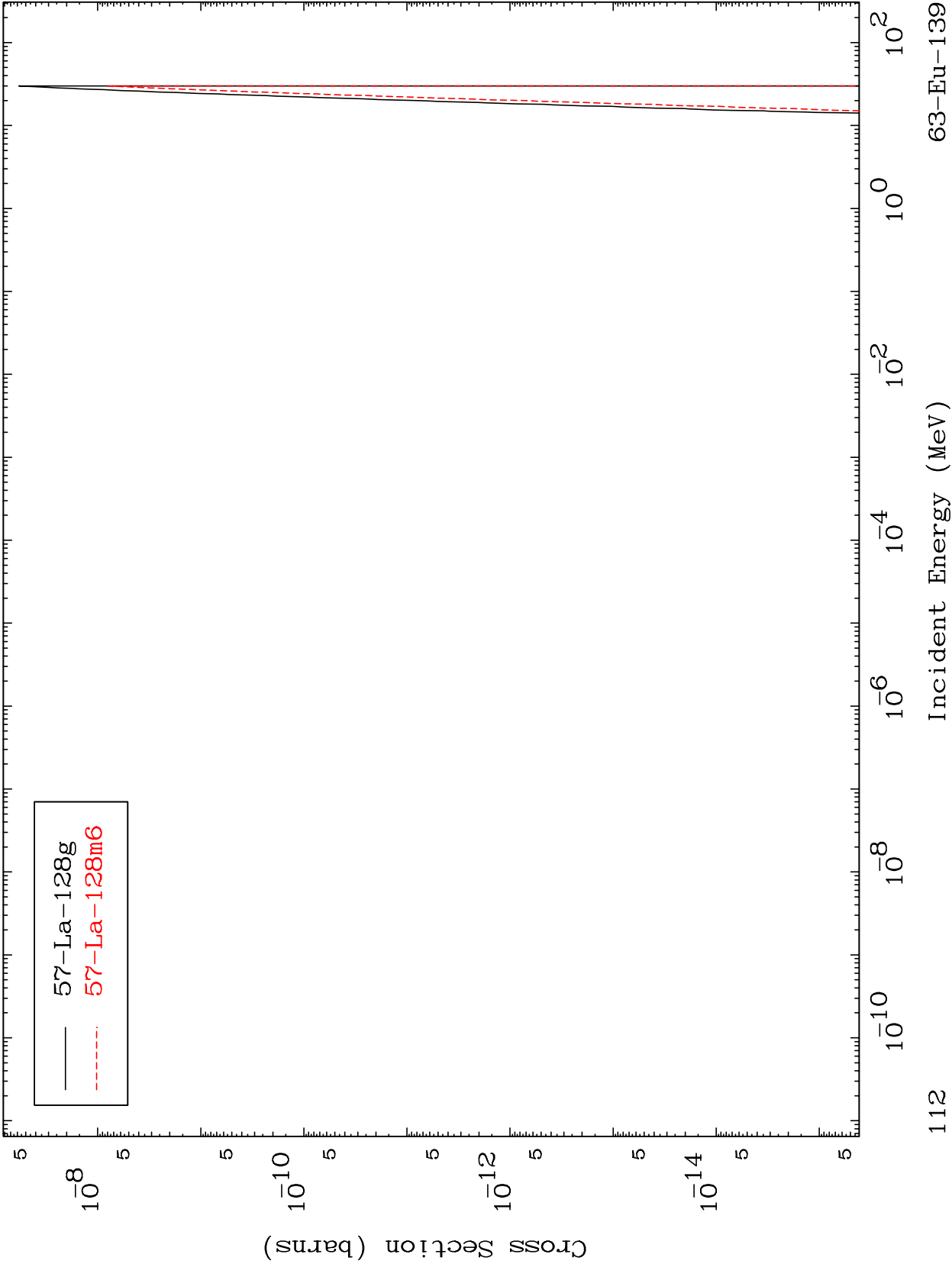
63-Eu-139

MAT 6289

(n, 3 α)

63-Eu-139

Radionuclide Production Cross Section

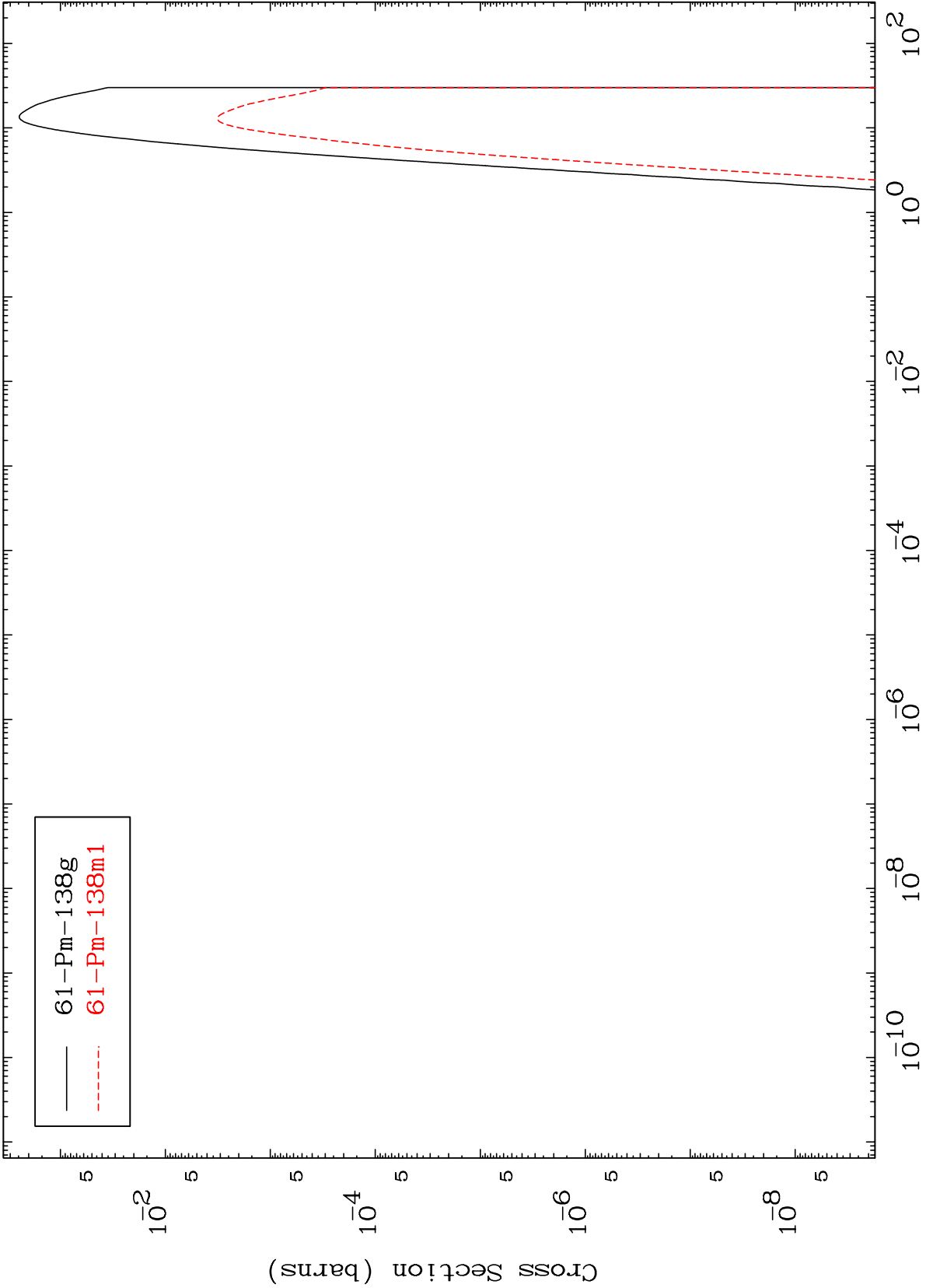


MAT 6289

(n,2p)

63-Eu-139

Radionuclide Production Cross Section



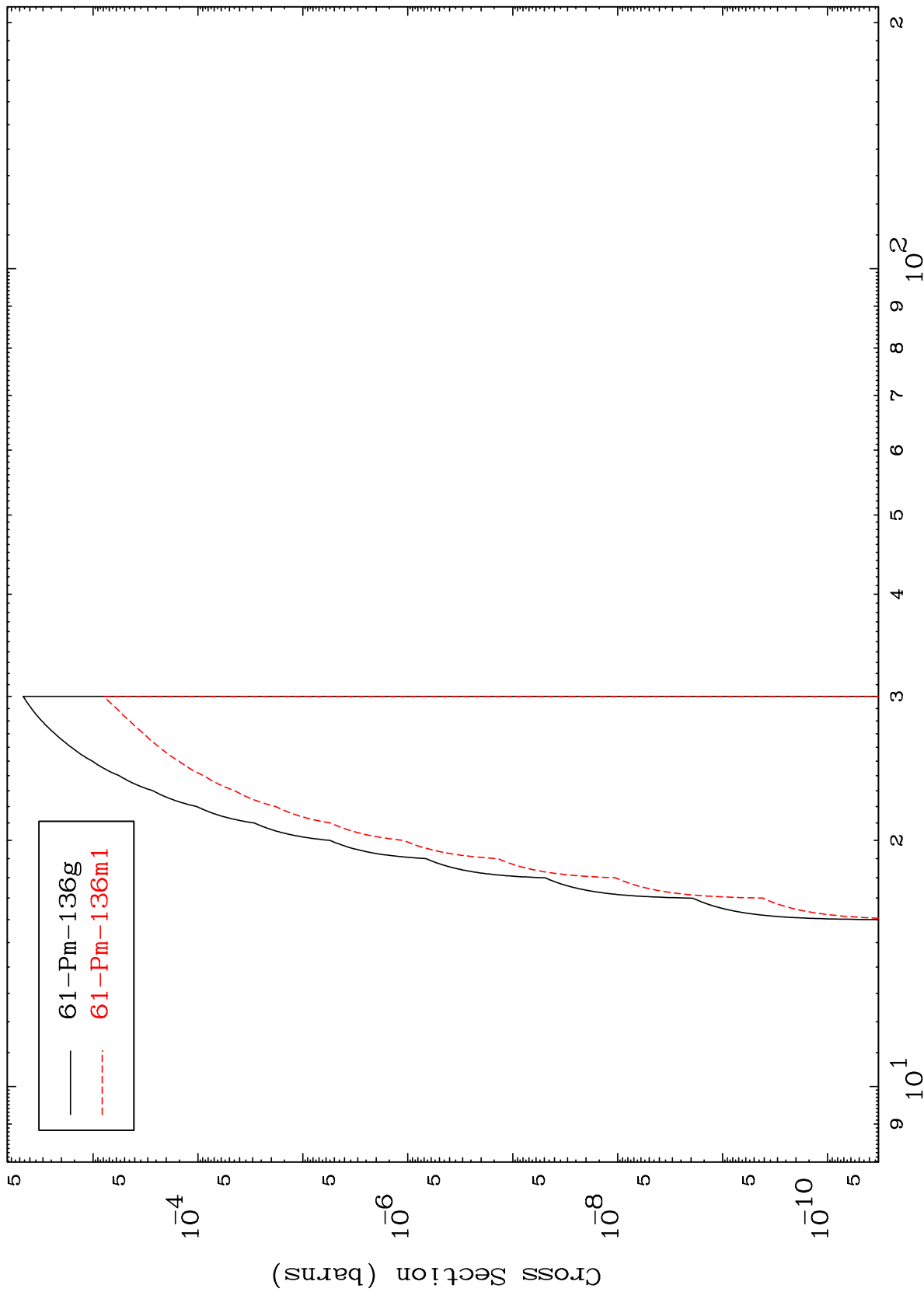
61-Pm-138g
61-Pm-138m1

MAT 6289

(n,p) t

63-Eu-139

Radionuclide Production Cross Section



114

Incident Energy (MeV)

63-Eu-139