

Program EVALPLOT
(Version 2015-2)

by

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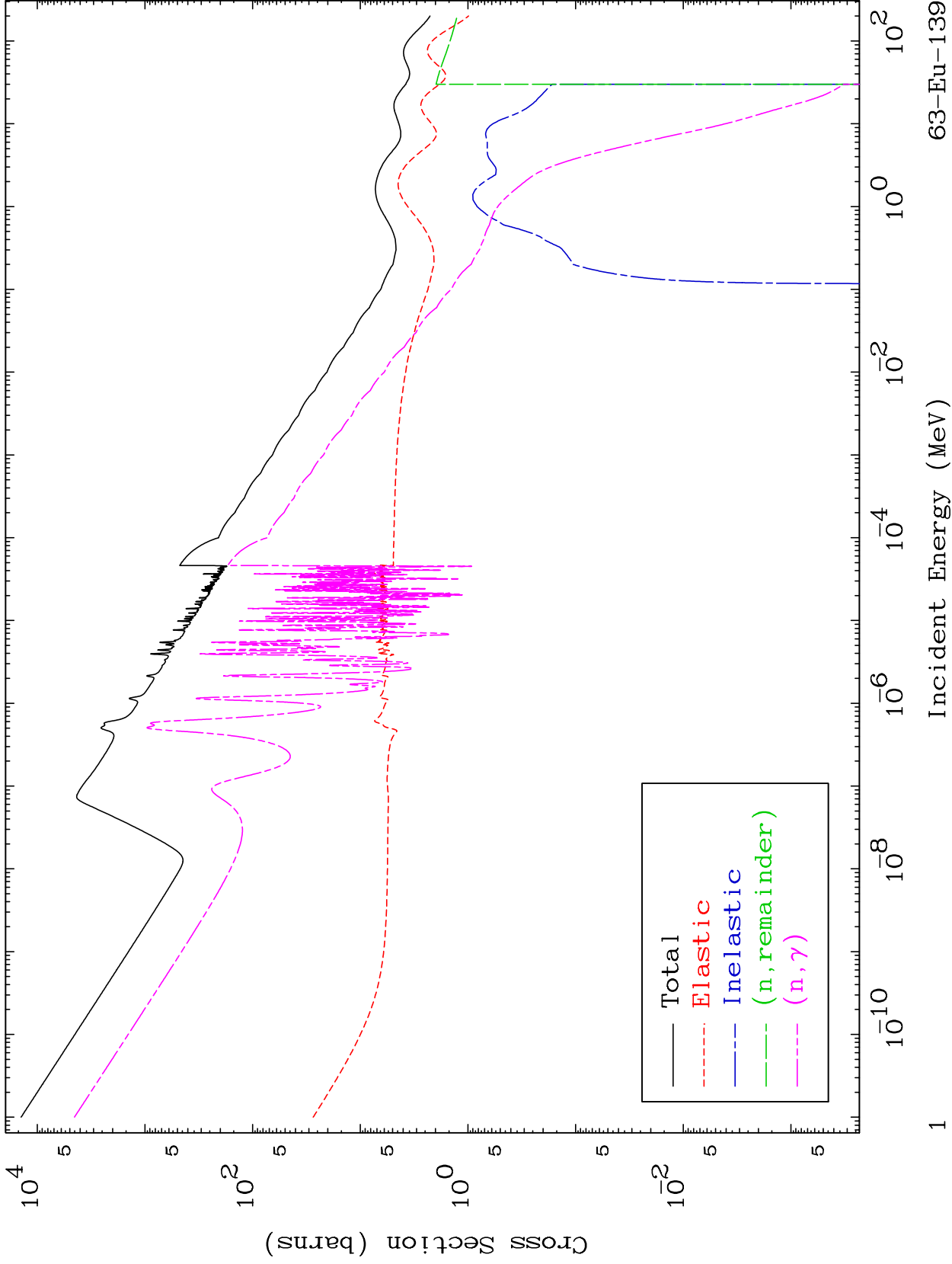
Press Mouse Button to Start

MAT 6289

Major

293 Kelvin Cross Sections

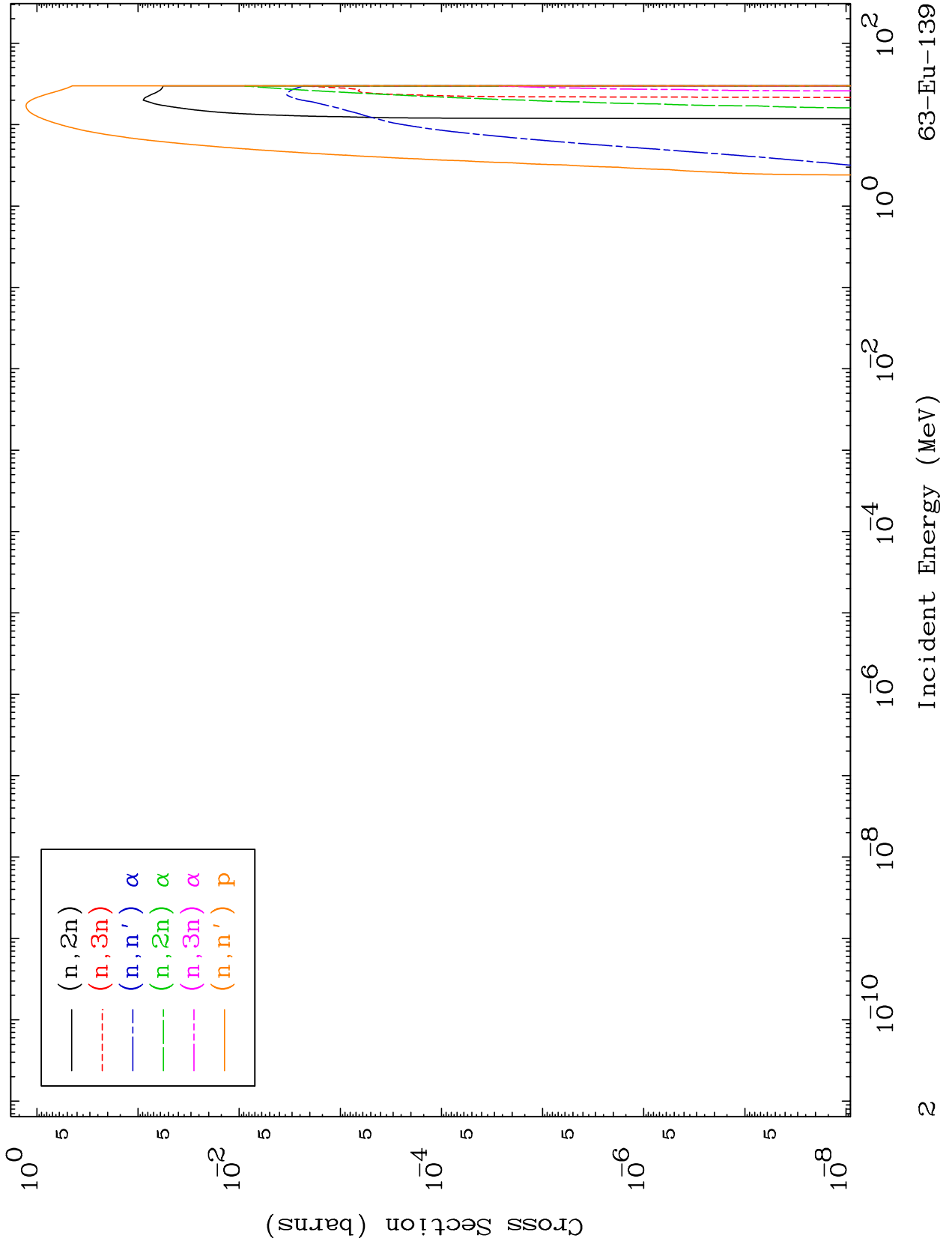
63-Eu-139



MAT 6289

Neutron Production
293 Kelvin Cross Sections

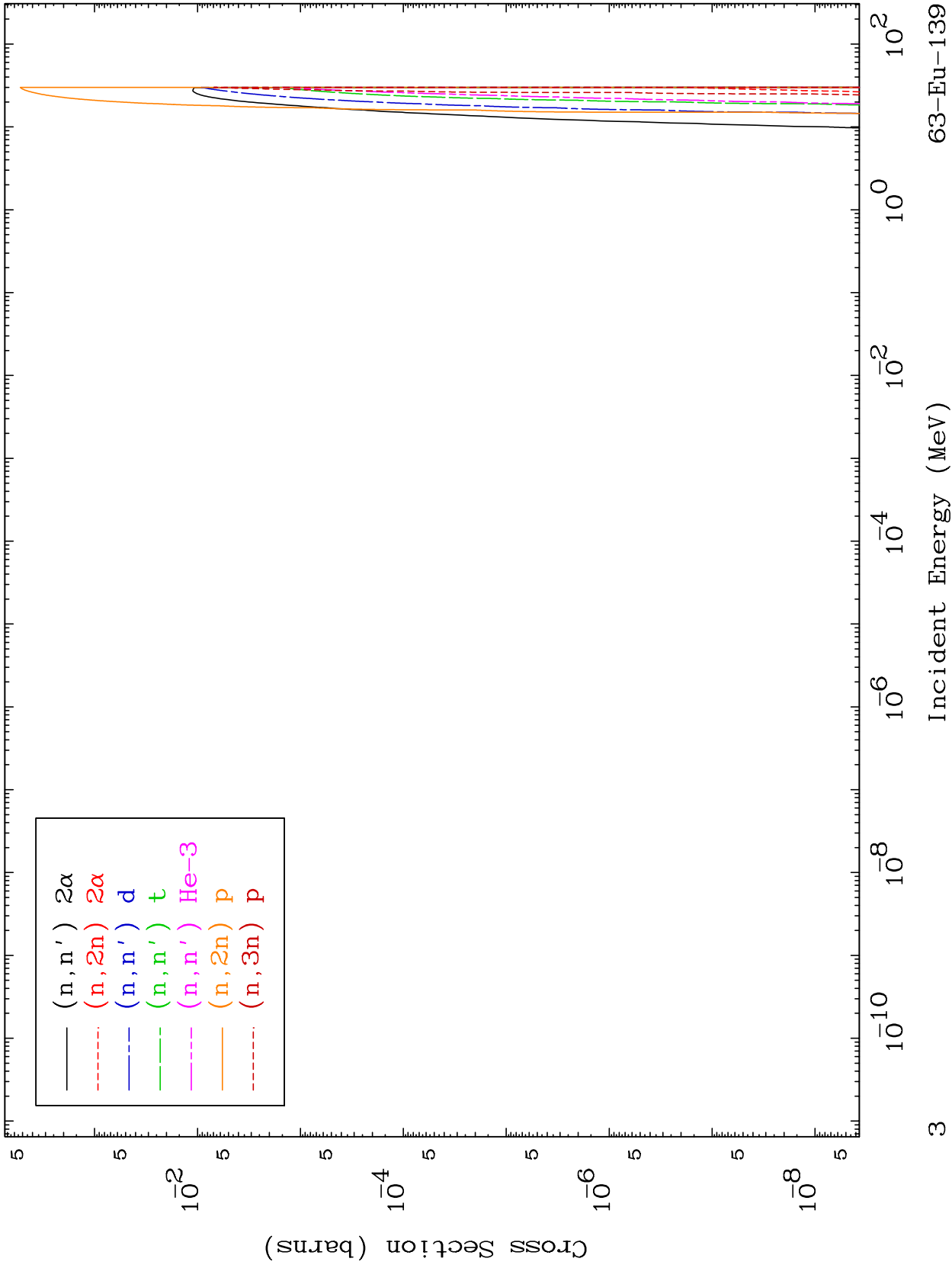
63-Eu-139



MAT 6289

Neutron Production
293 Kelvin Cross Sections

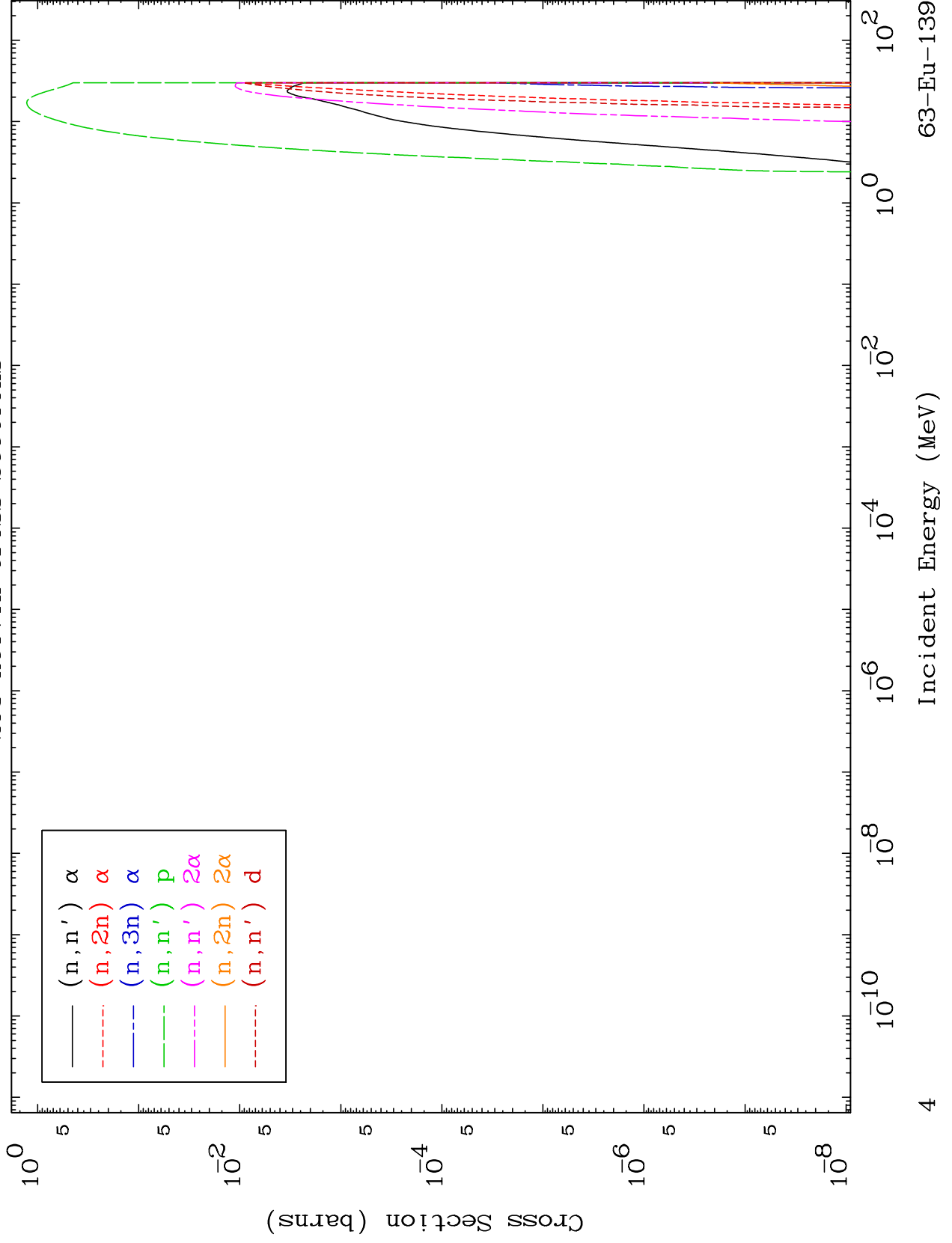
63-Eu-139



MAT 6289

Charged Particle
293 Kelvin Cross Sections

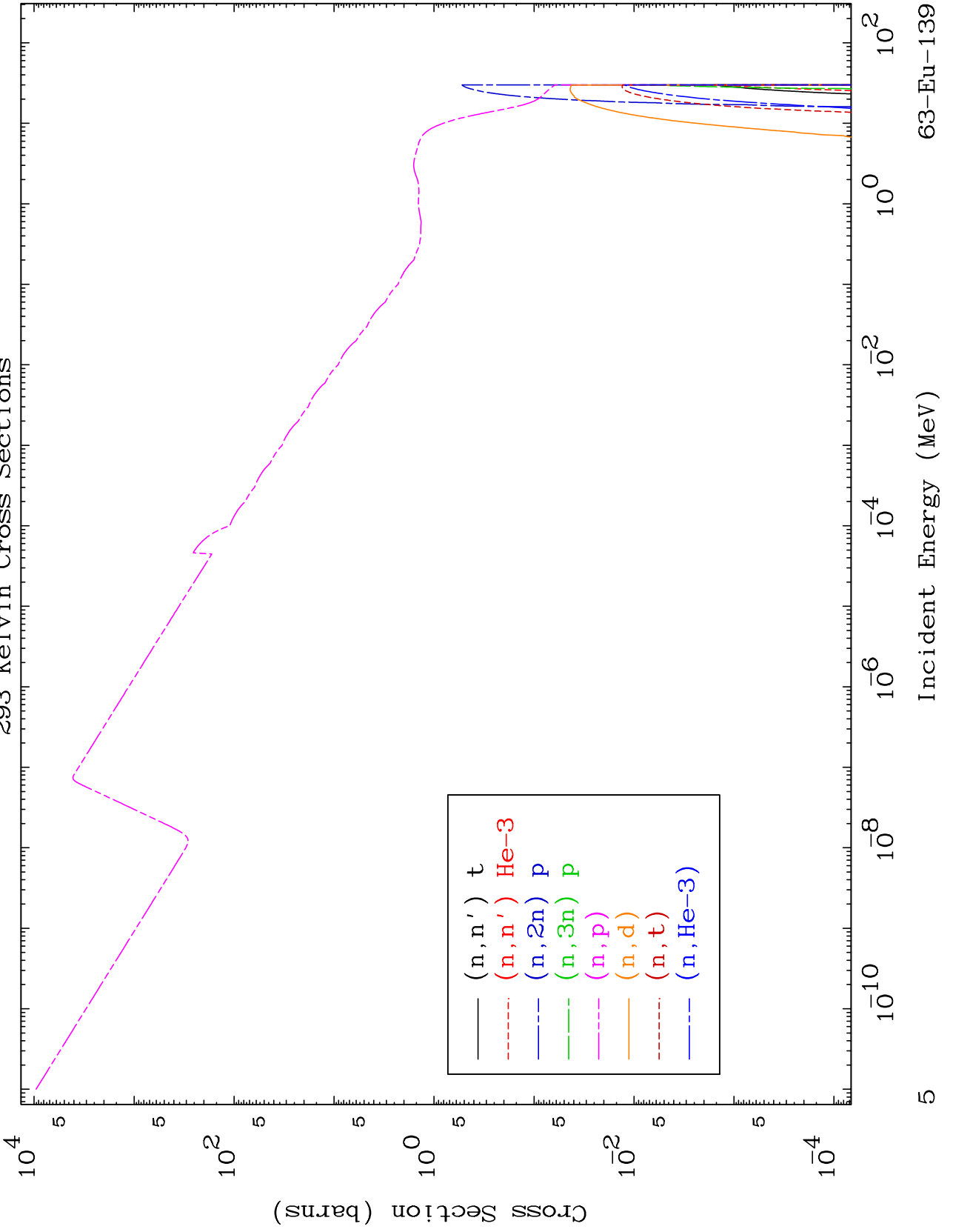
63-Eu-139



MAT 6289

Charged Particle
293 Kelvin Cross Sections

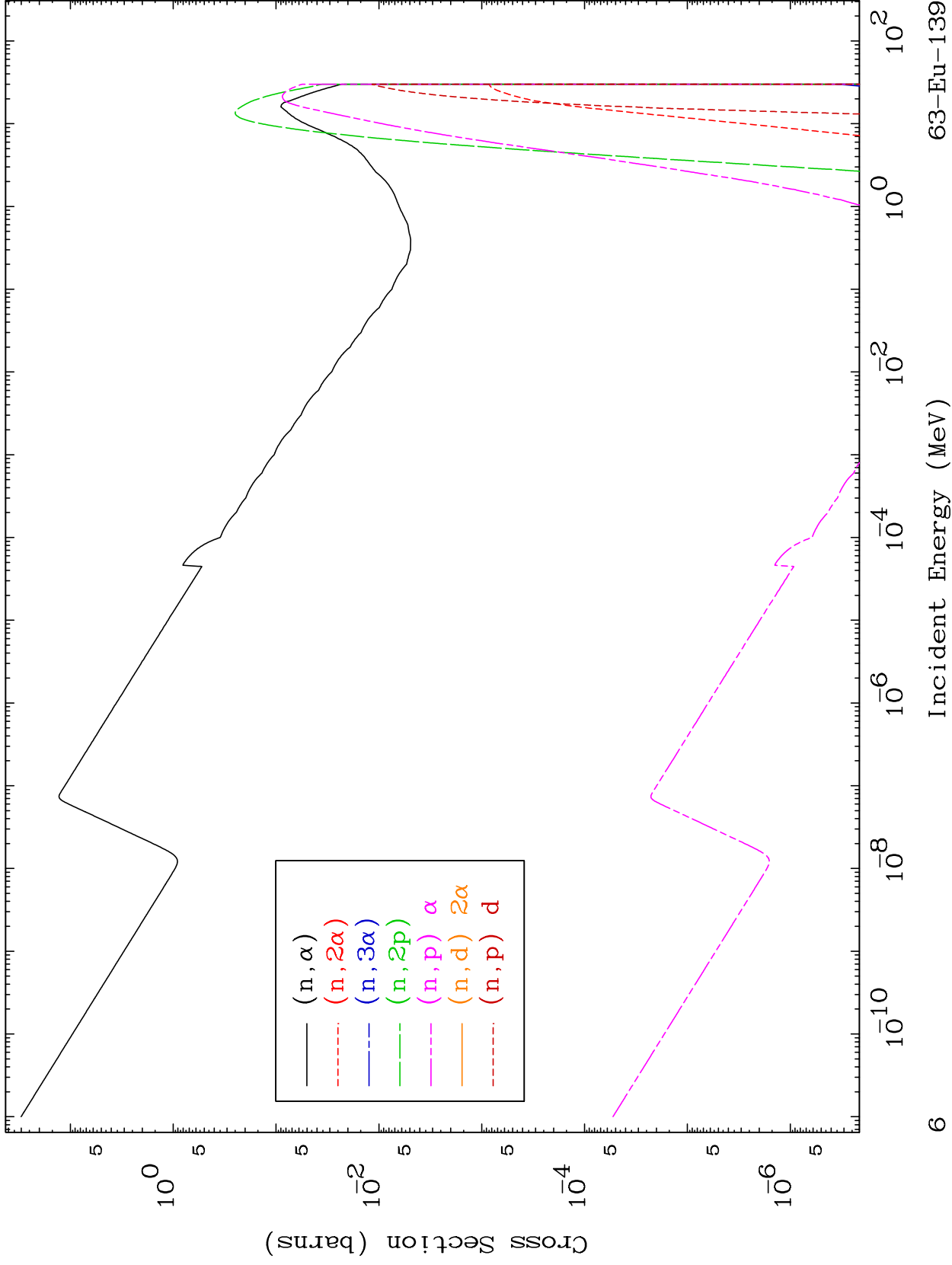
63-Eu-139



MAT 6289

Charged Particle
293 Kelvin Cross Sections

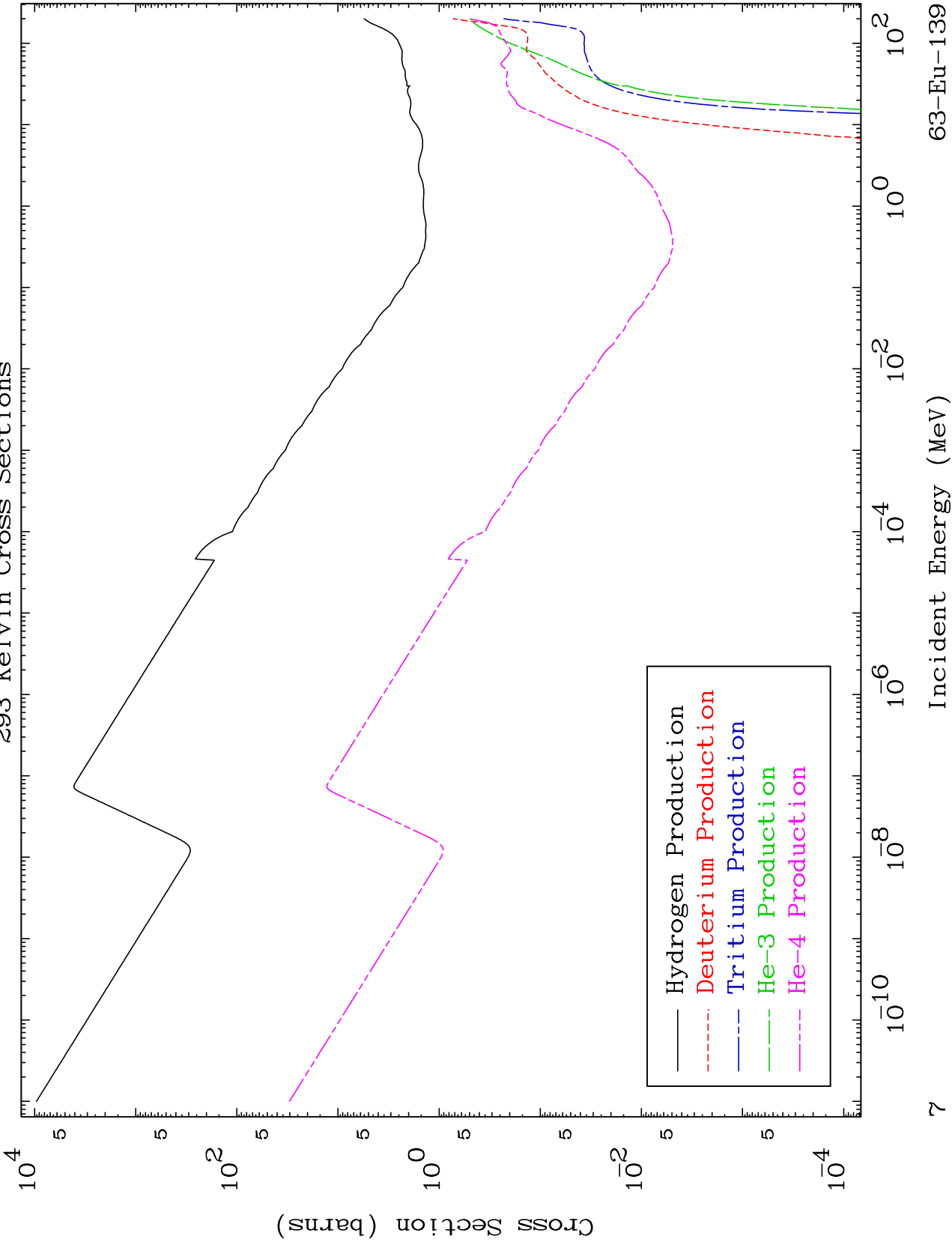
63-Eu-139



MAT 6289

Particle Production
293 Kelvin Cross Sections

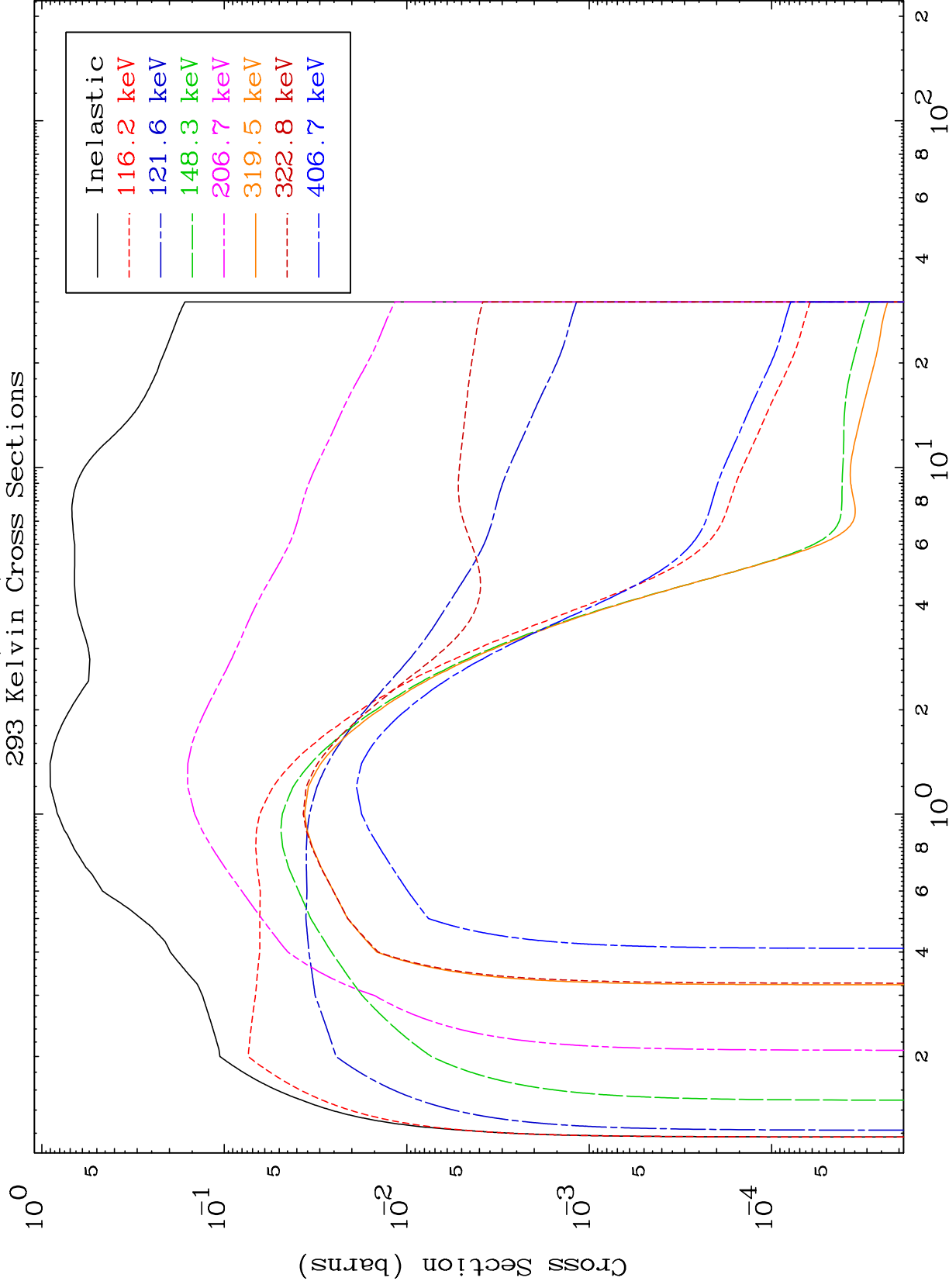
63-Eu-139



MAT 6289

(n,n') Level
293 Kelvin Cross Sections

63-Eu-139



8

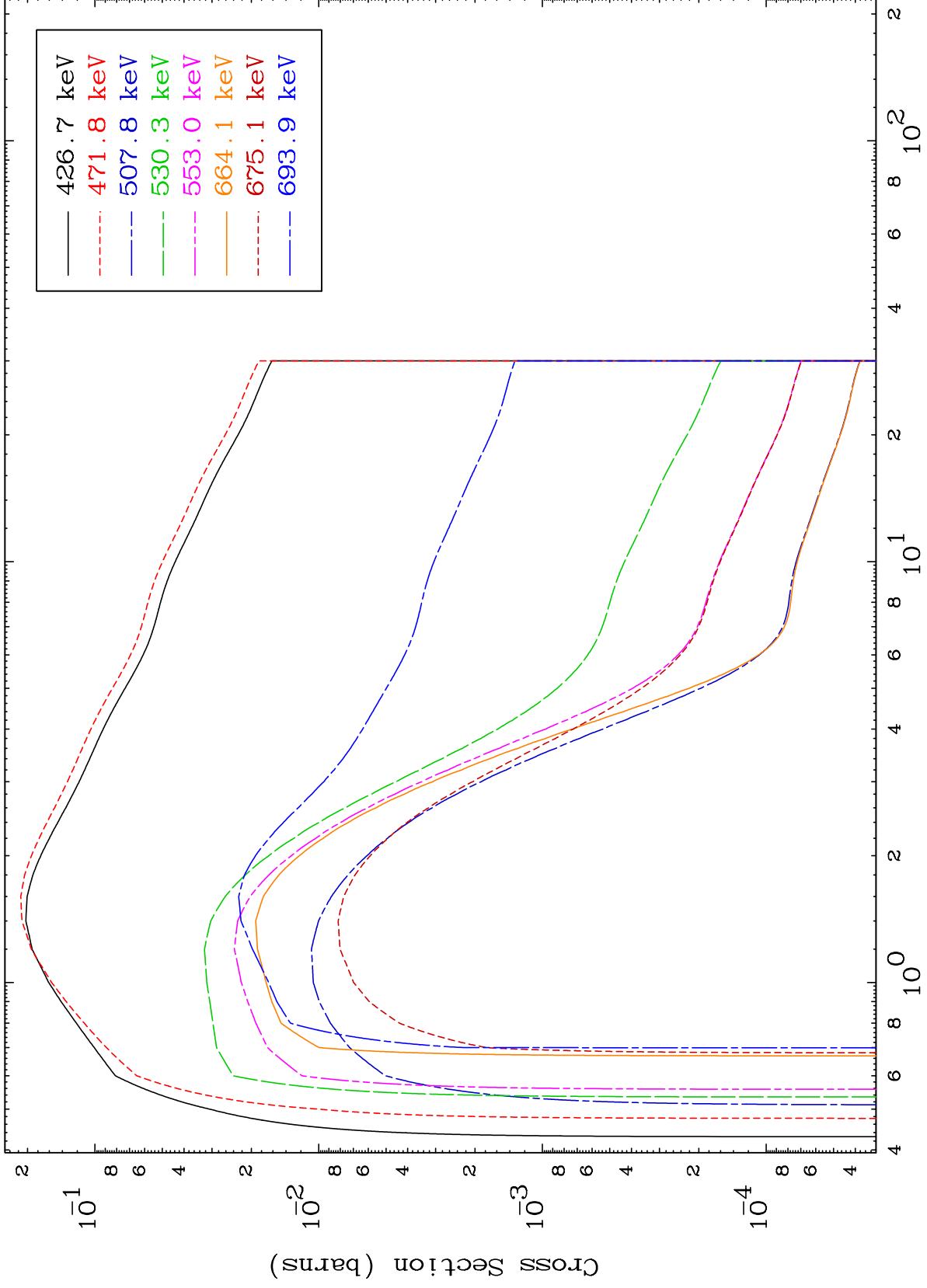
Incident Energy (MeV)

63-Eu-139

MAT 6289

(n,n') Level
293 Kelvin Cross Sections

63-Eu-139



9

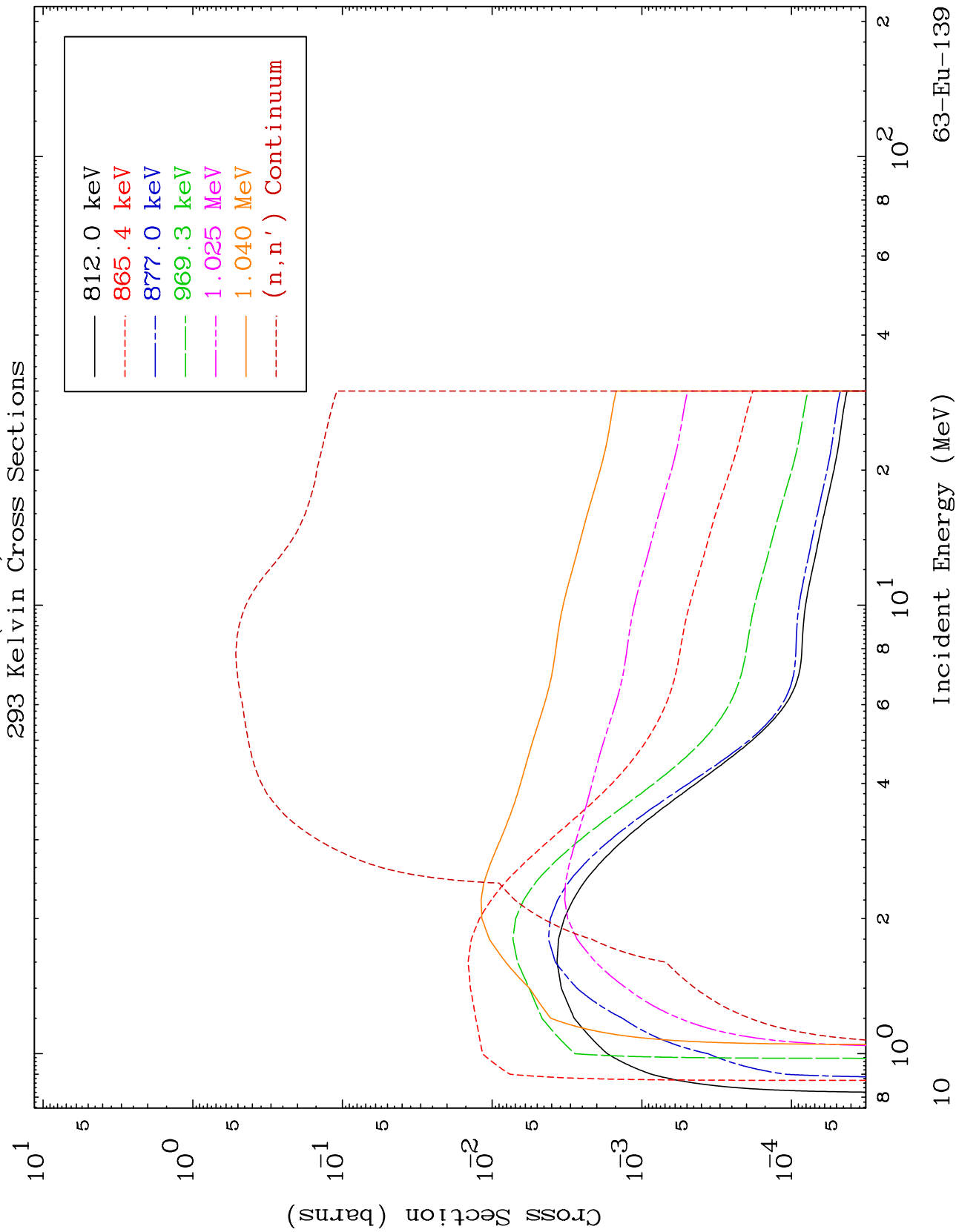
Incident Energy (MeV)

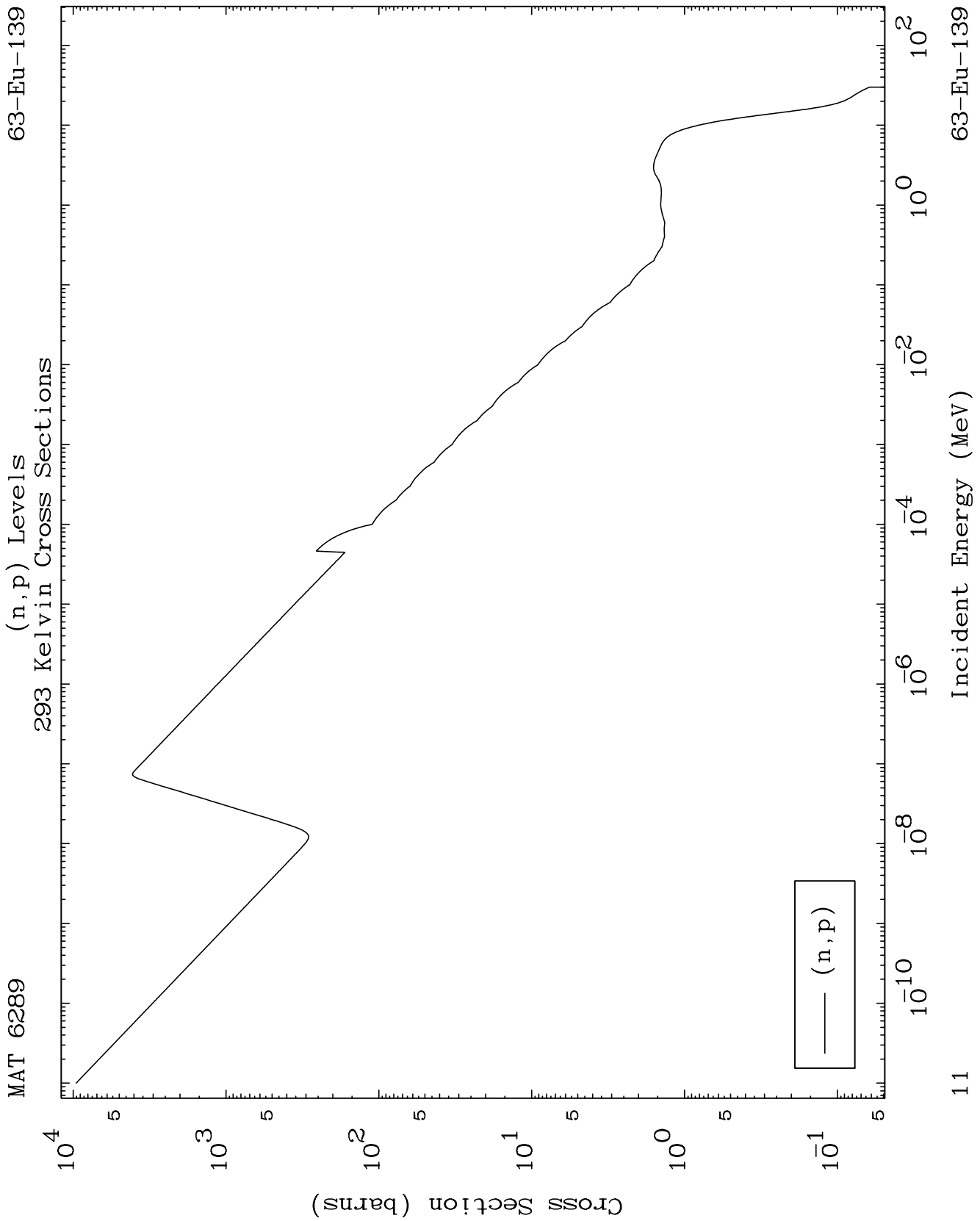
63-Eu-139

MAT 6289

(n,n') Level

63-Eu-139

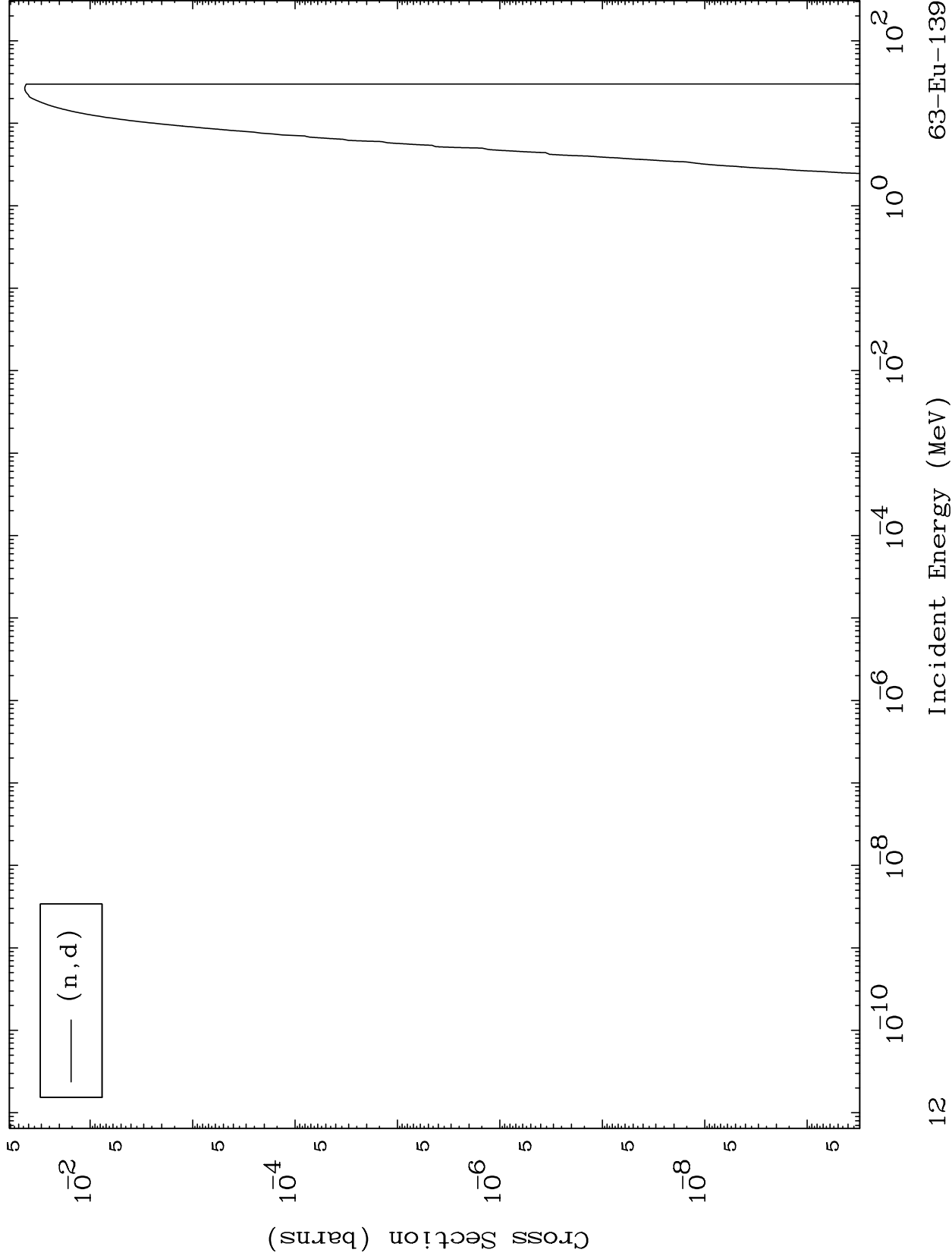




MAT 6289

(n,d) Levels
293 Kelvin Cross Sections

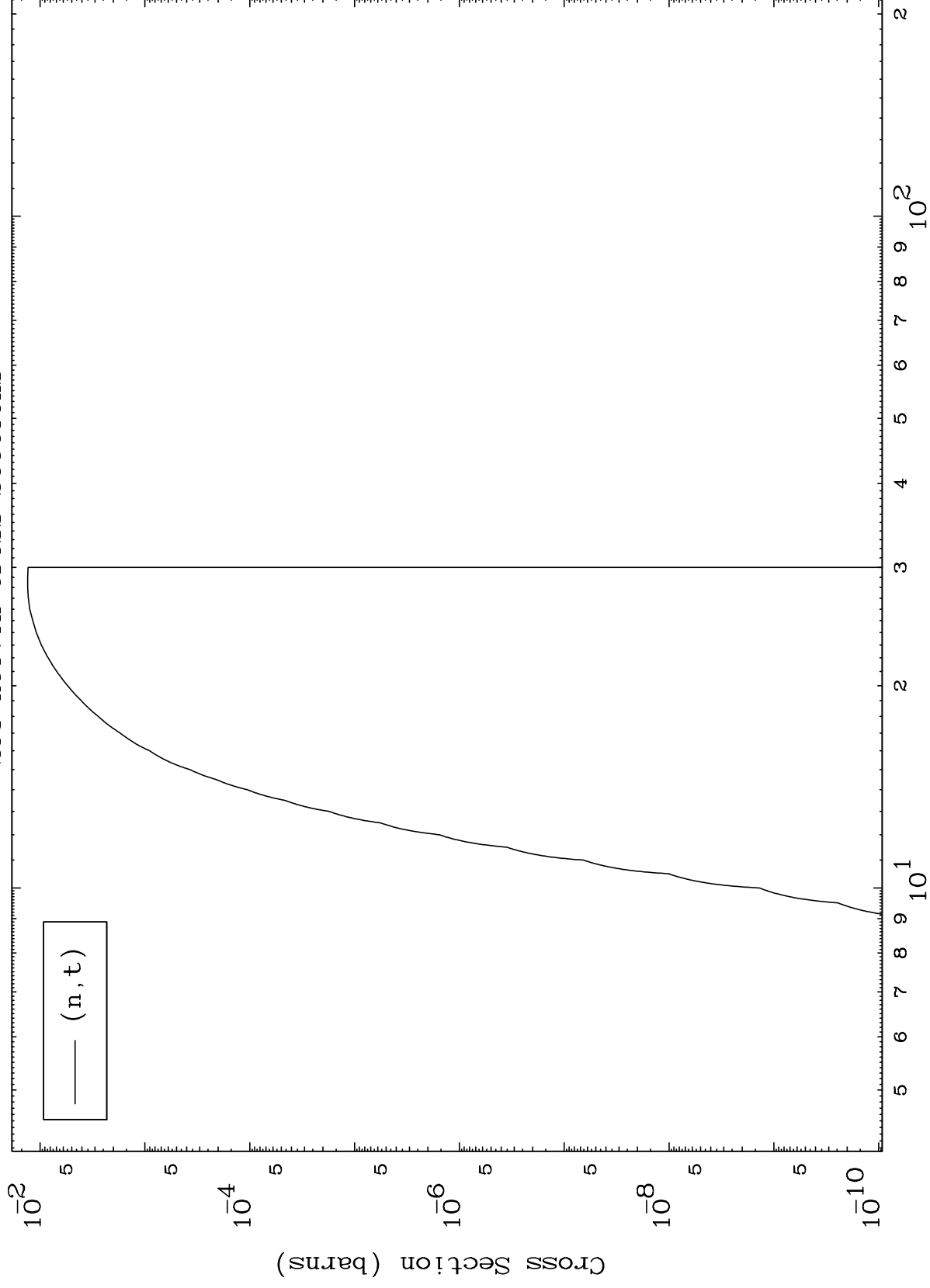
63-Eu-139



MAT 6289

(n,t) Levels
293 Kelvin Cross Sections

63-Eu-139



13

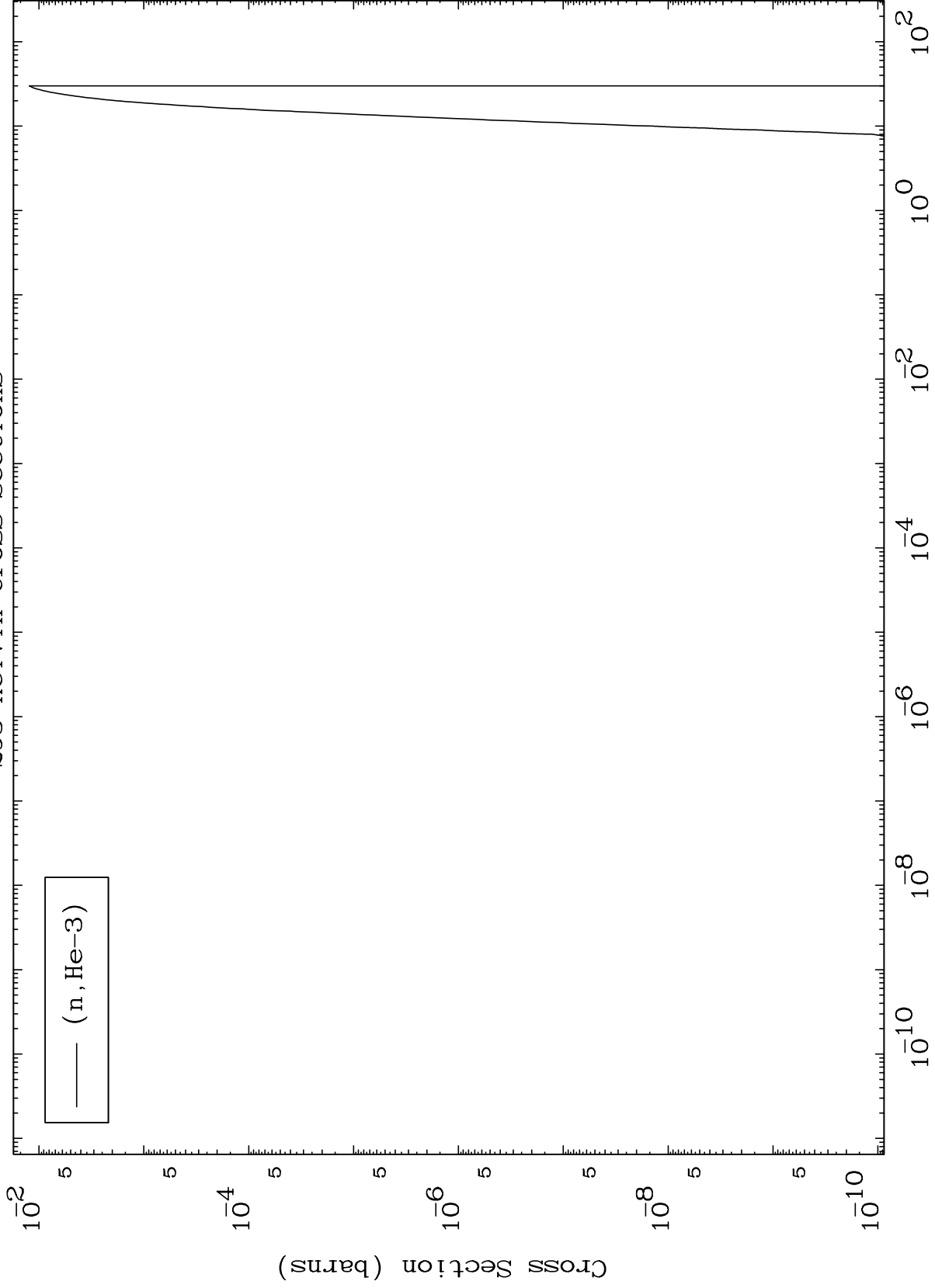
Incident Energy (MeV)

63-Eu-139

MAT 6289

(n,He3) Levels
293 Kelvin Cross Sections

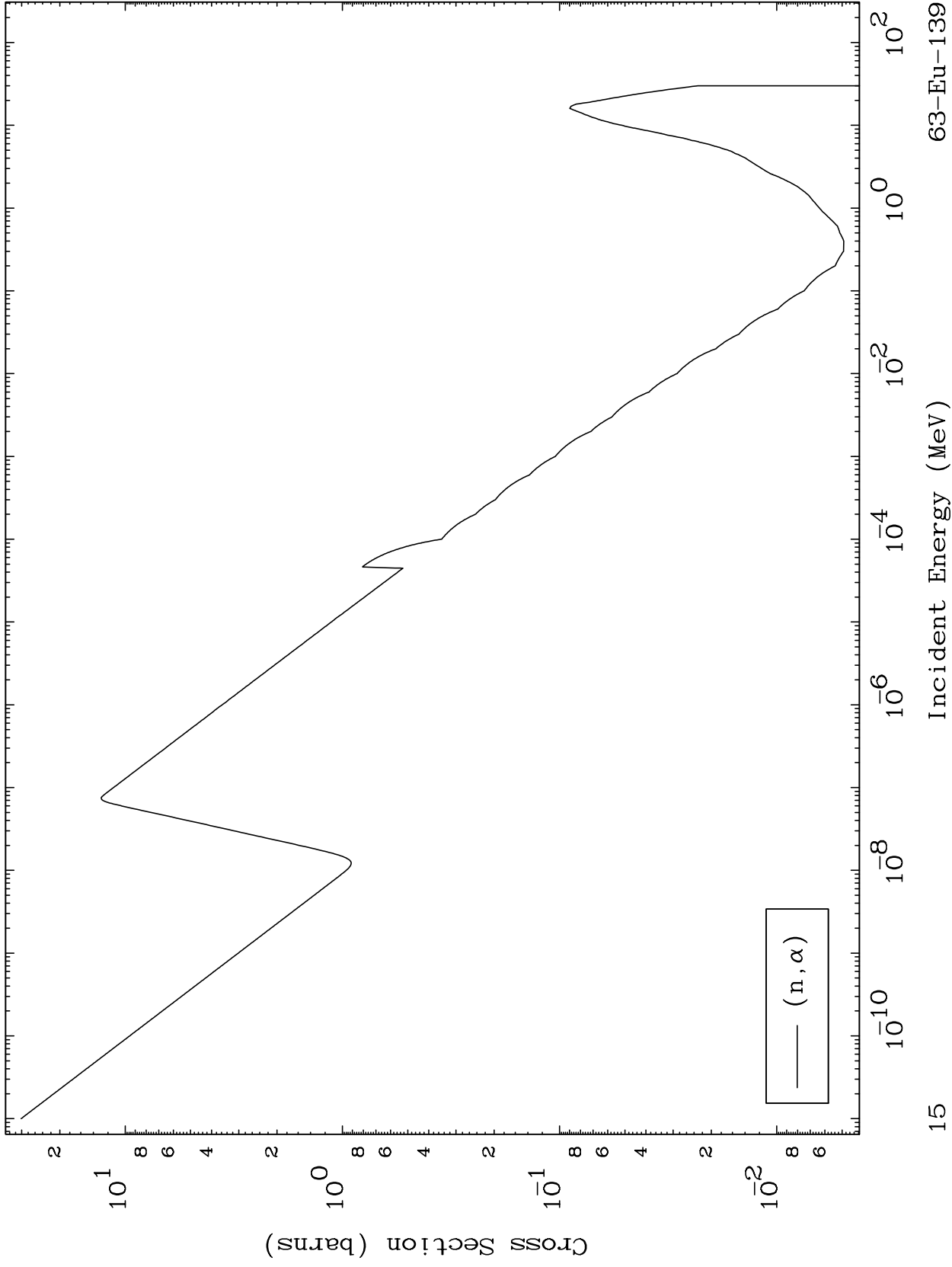
63-Eu-139



MAT 6289

(n,α) Levels
293 Kelvin Cross Sections

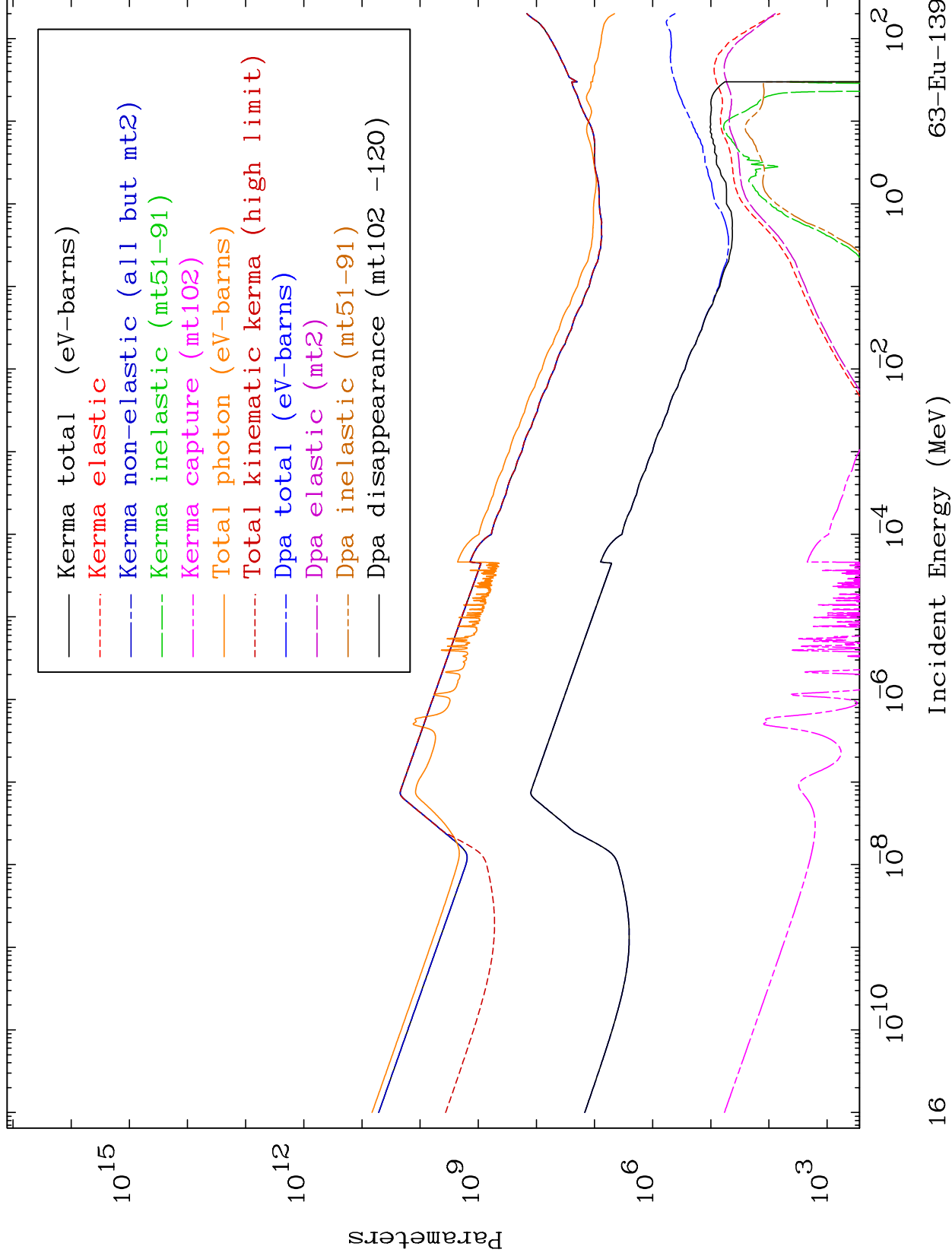
63-Eu-139



15

Incident Energy (MeV)

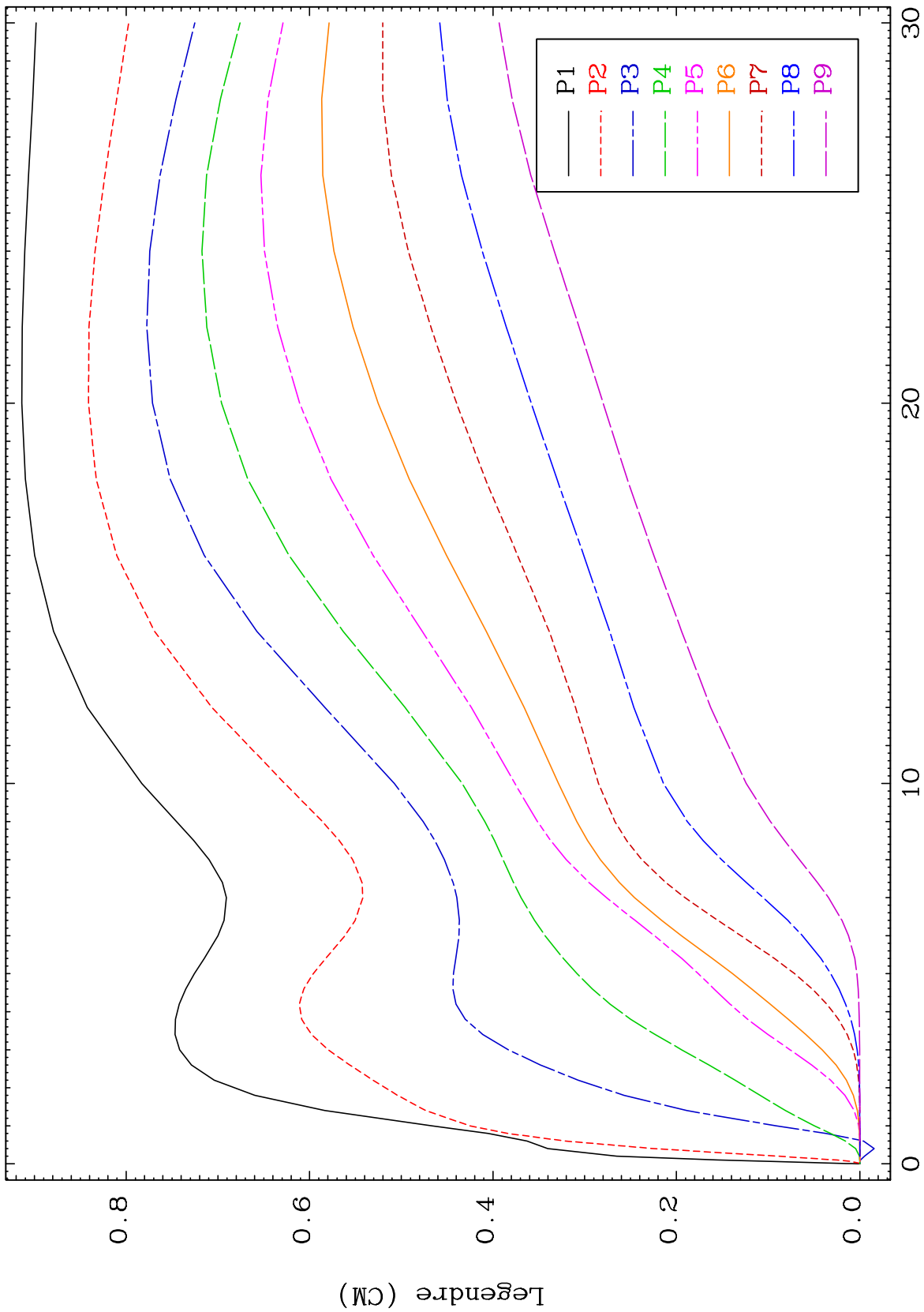
63-Eu-139



MAT 6289

63-Eu-139

Elastic Legendre Coefficients



17

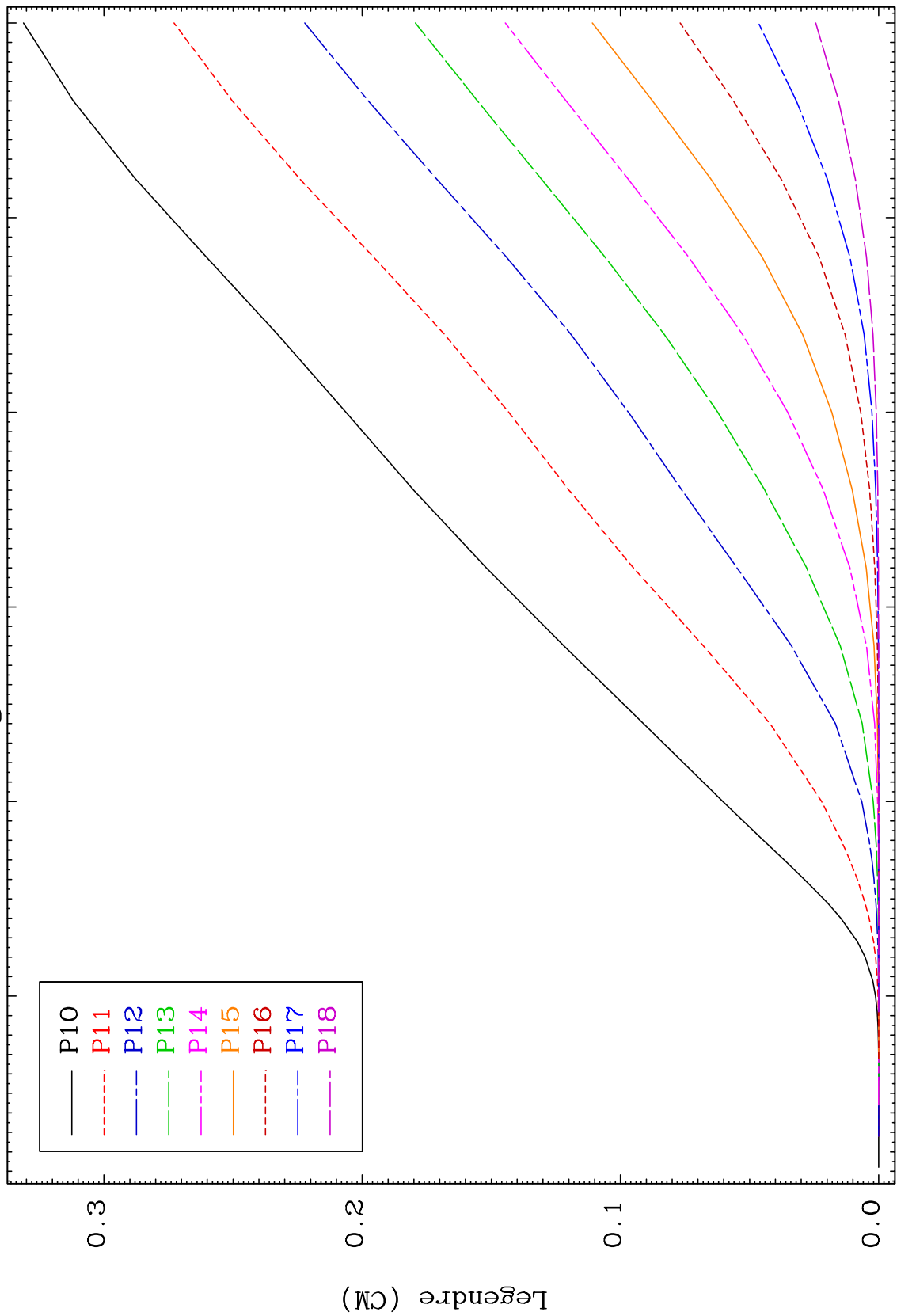
Incident Energy (MeV)

63-Eu-139

MAT 6289

Elastic Legendre Coefficients

63-Eu-139



18

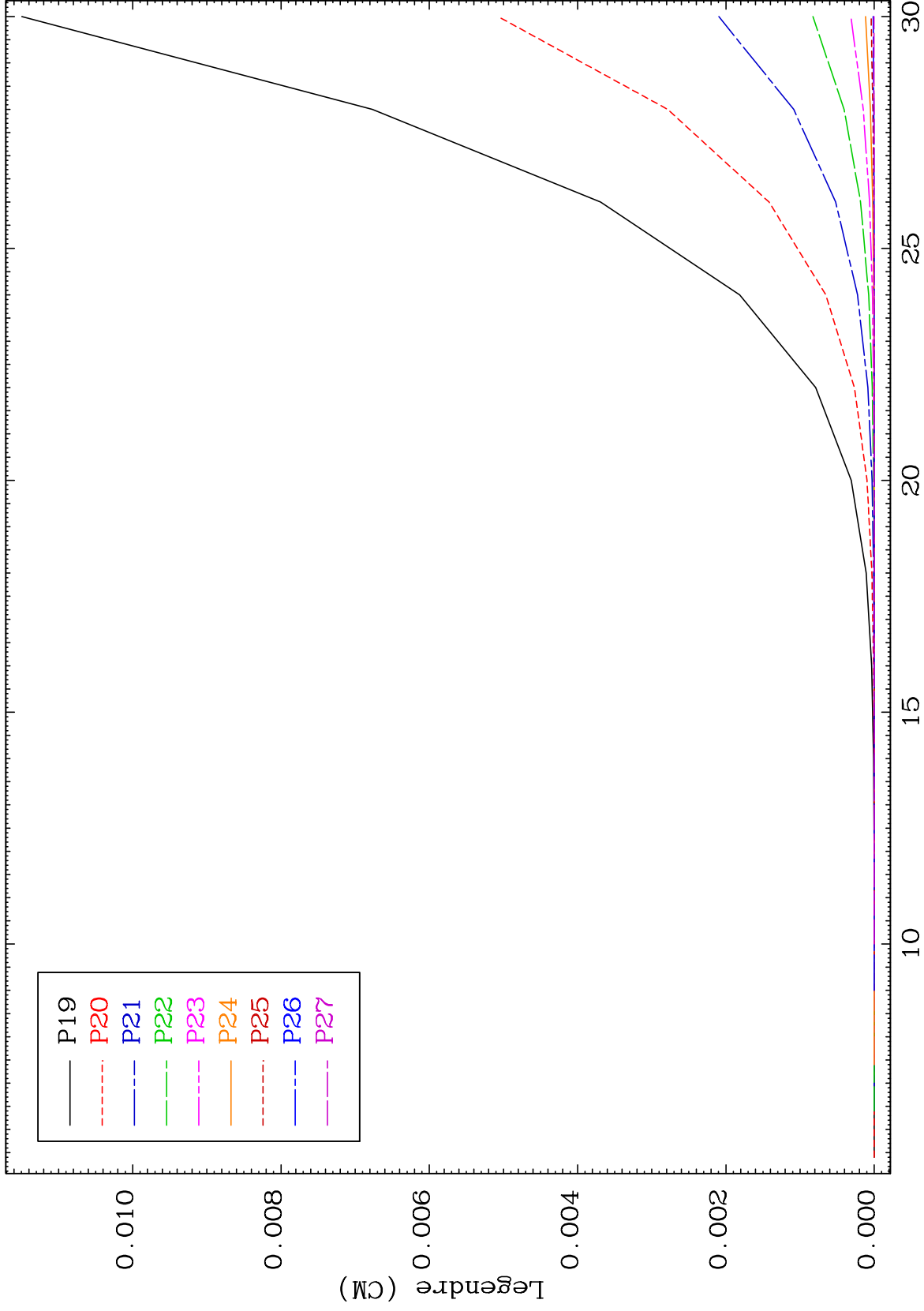
Incident Energy (MeV)

63-Eu-139

MAT 6289

Elastic Legendre Coefficients

63-Eu-139



19

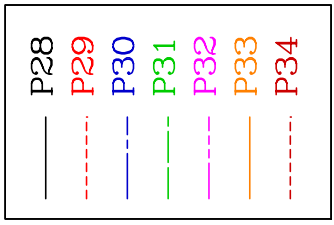
Incident Energy (MeV)

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

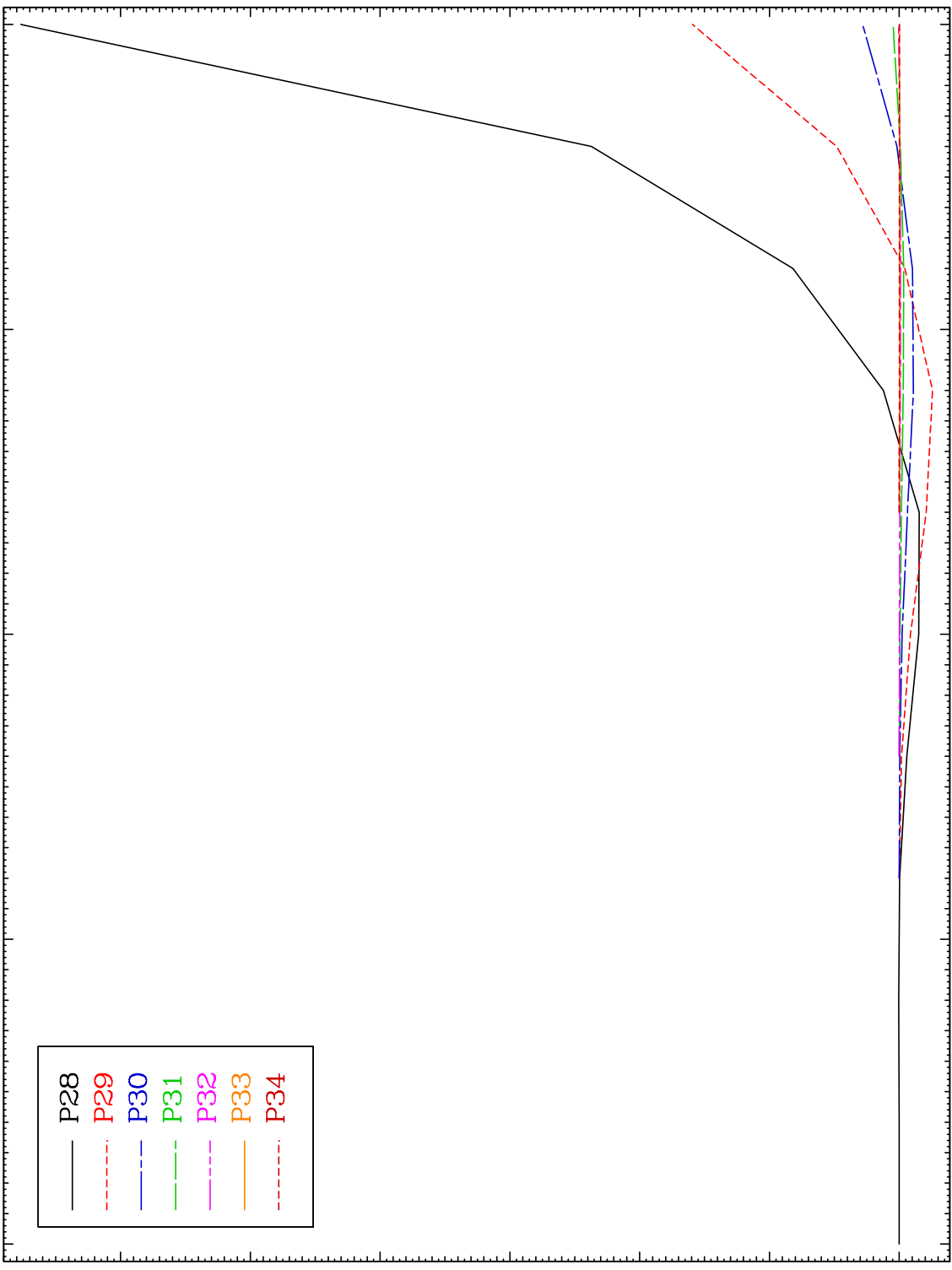
25

30

20

Incident Energy (MeV)

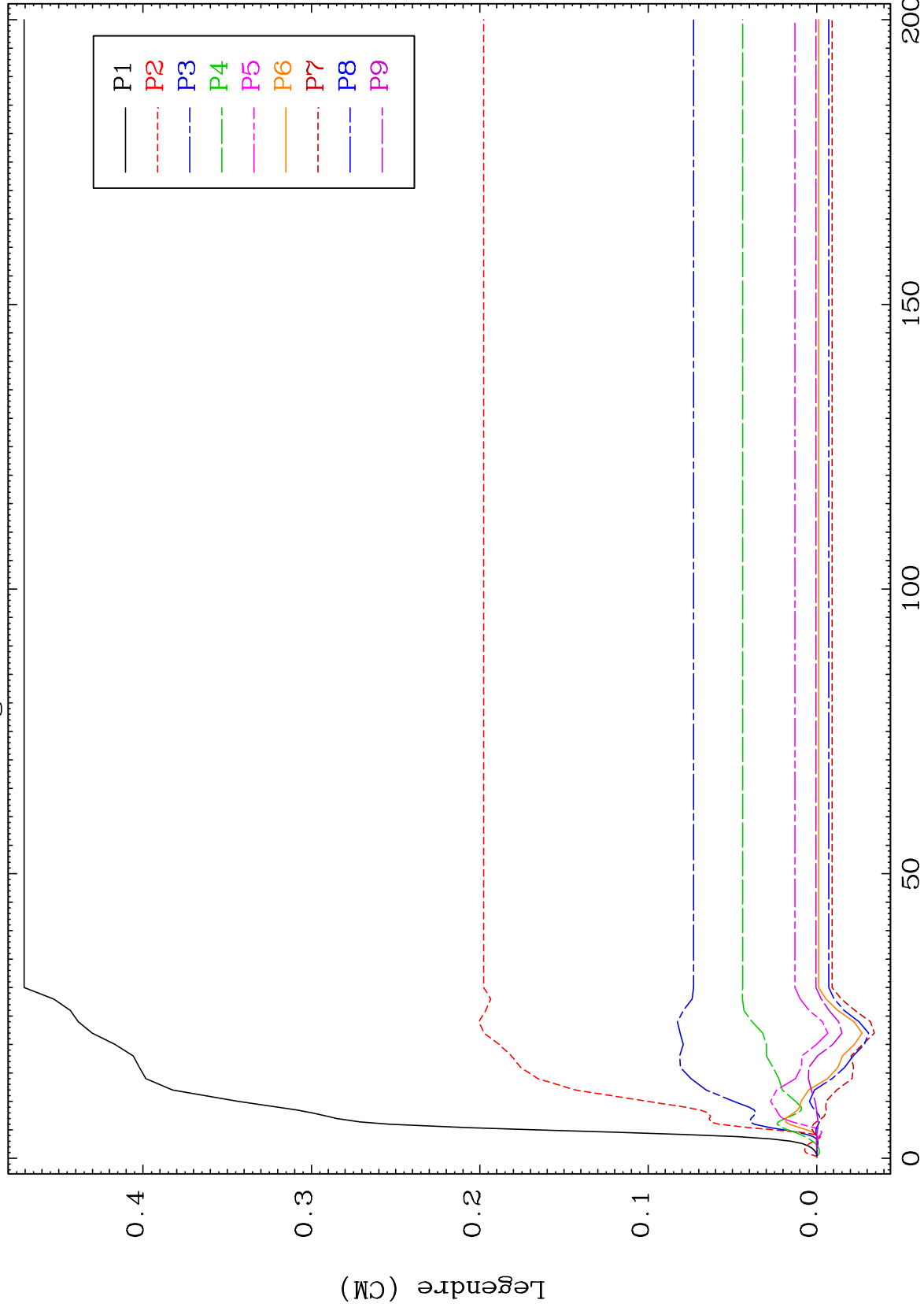
63-Eu-139



MAT 6289

116.2 keV (n,n') Level
Legendre Coefficients

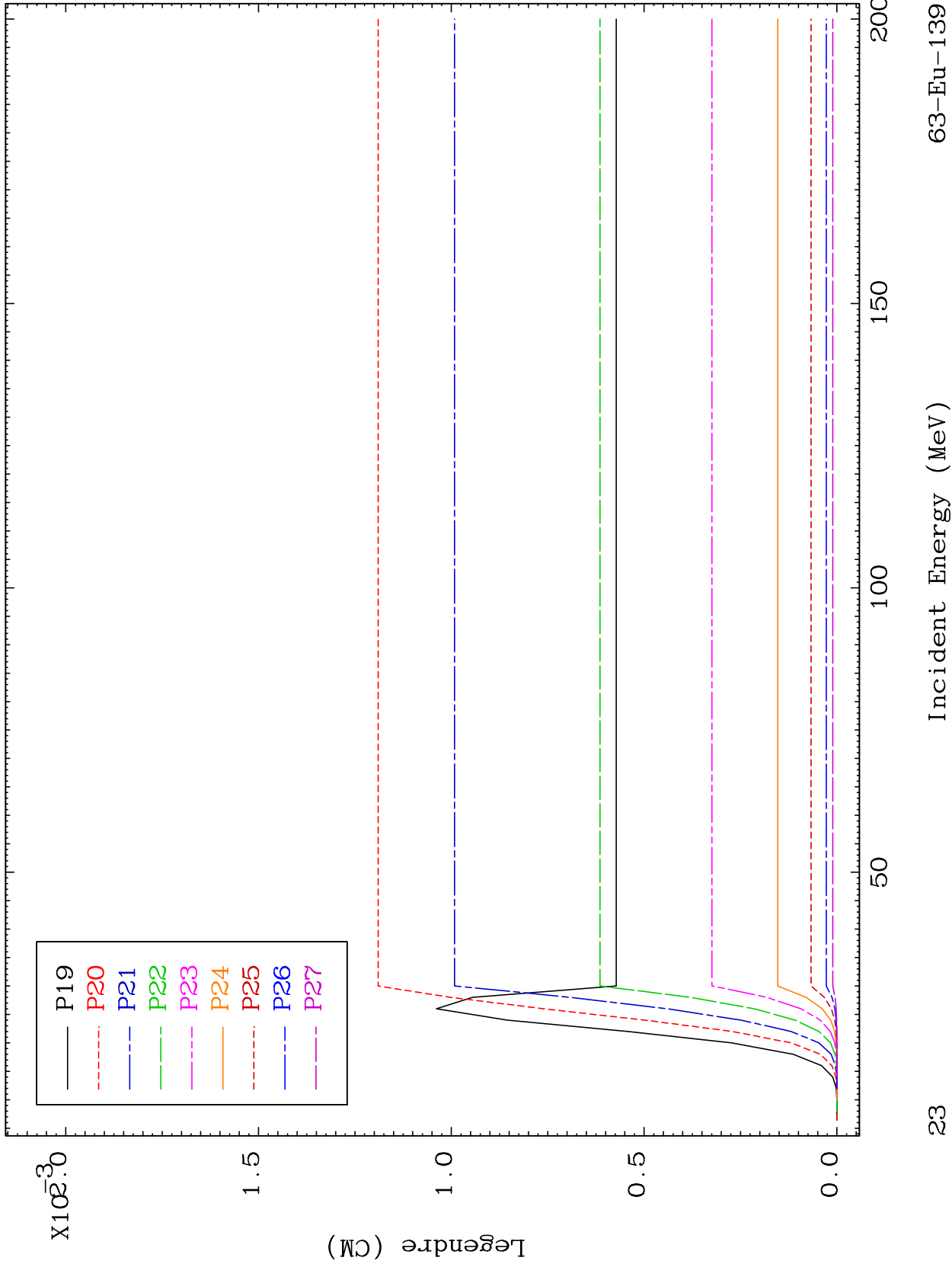
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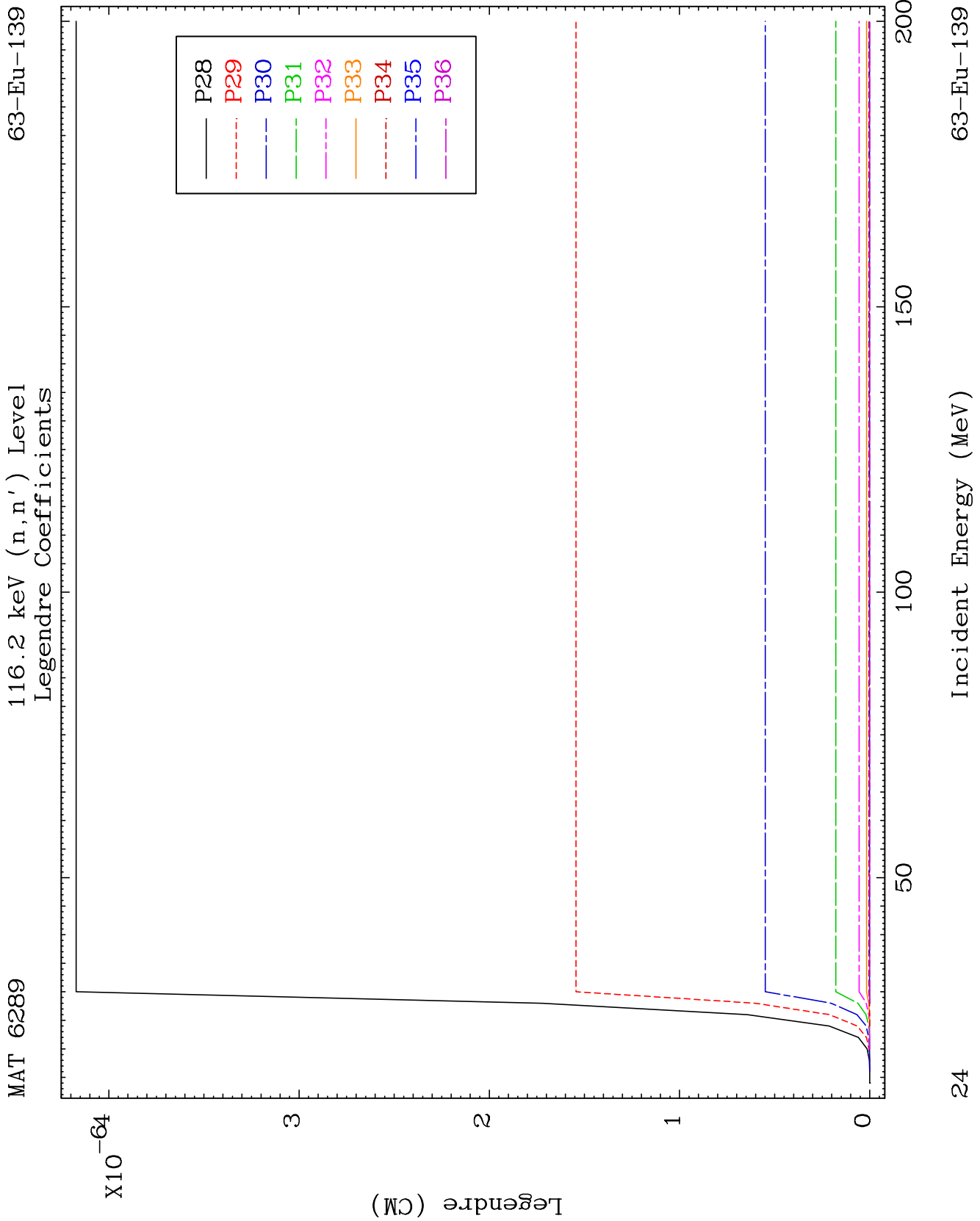


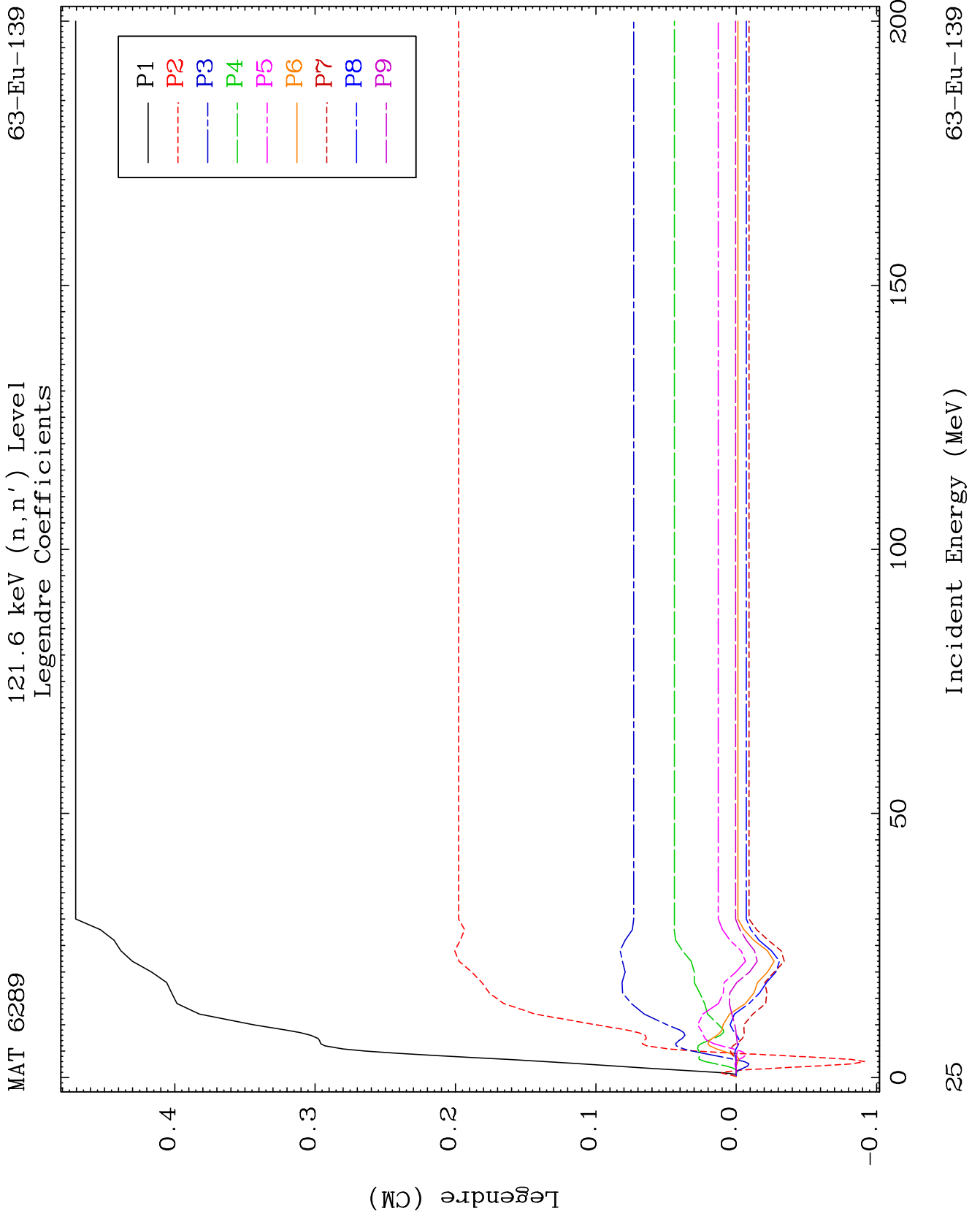
63-Eu-139

Incident Energy (MeV)

21



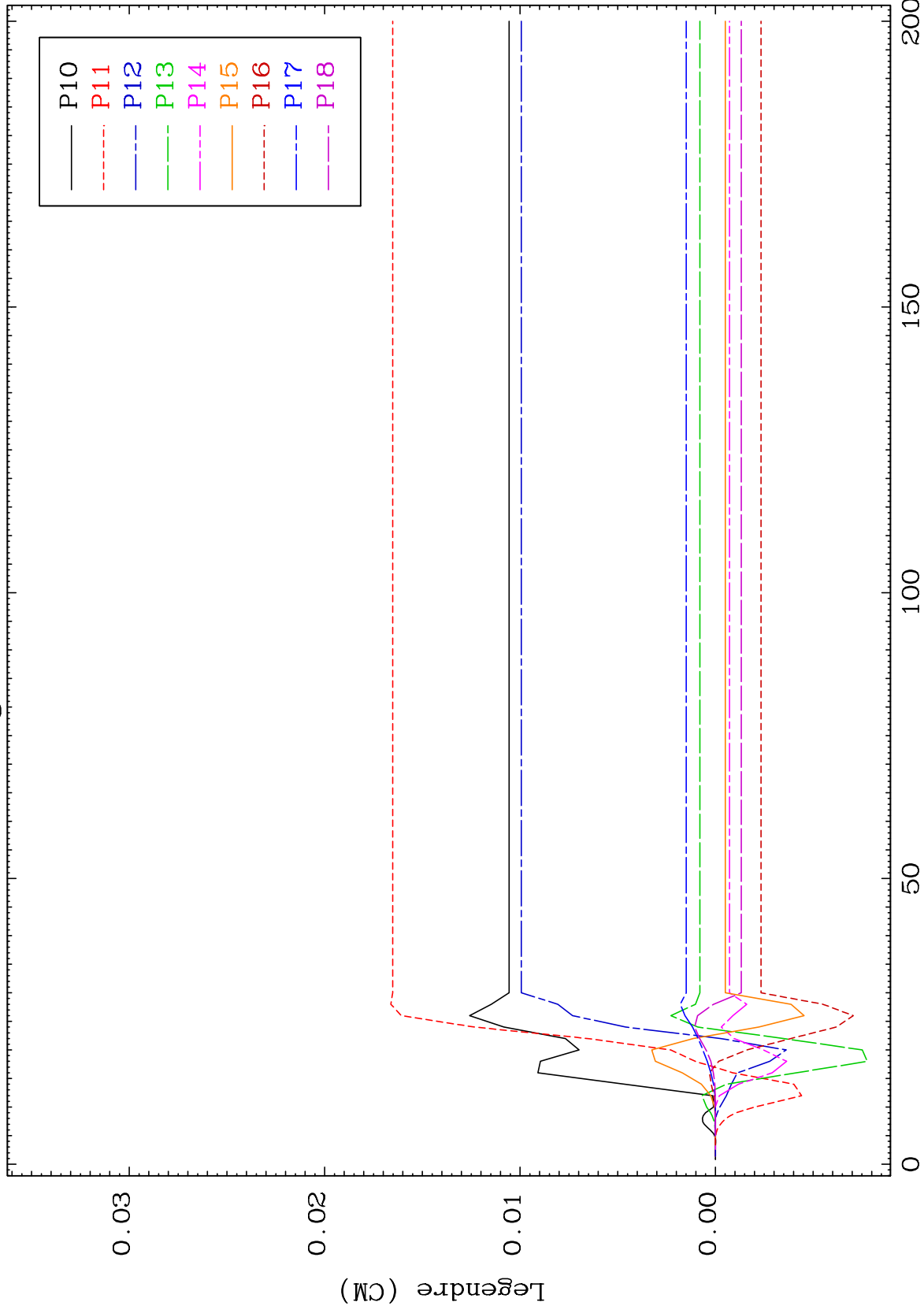




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121.6 keV (n,n') Level
Legendre Coefficients

63-Eu-139



26

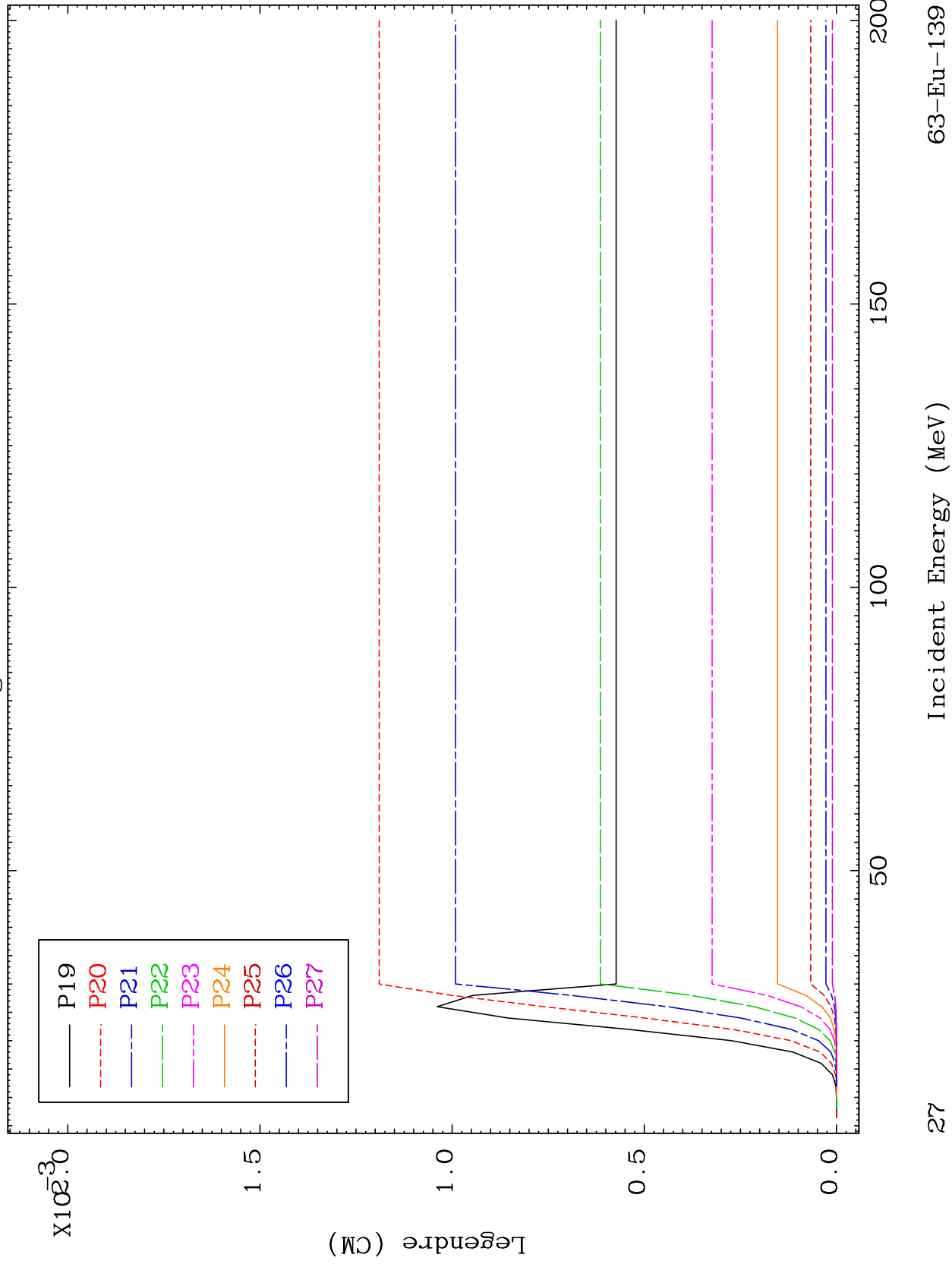
Incident Energy (MeV)

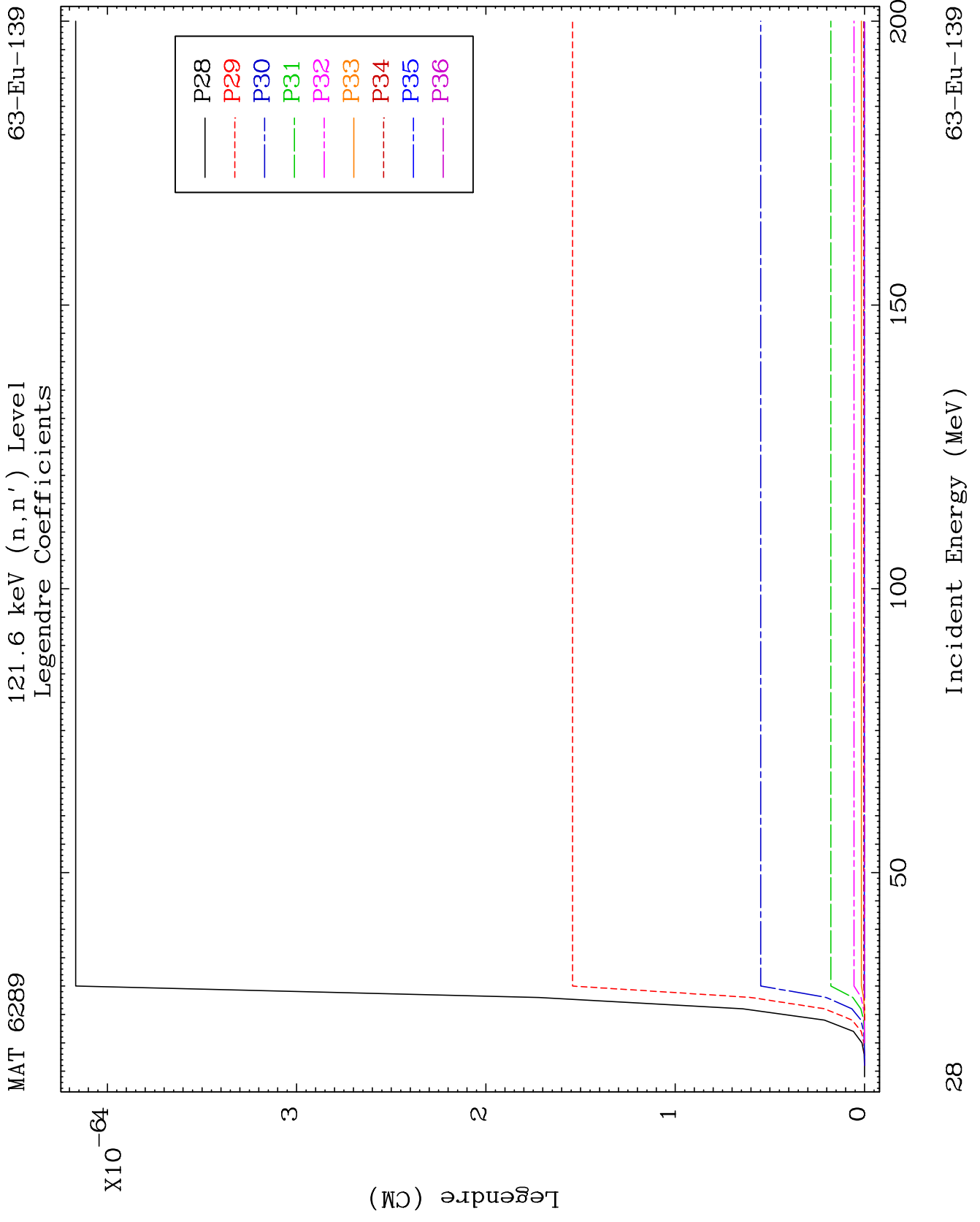
63-Eu-139

MAT 6289

121.6 keV (n,n') Level
Legendre Coefficients

63-Eu-139

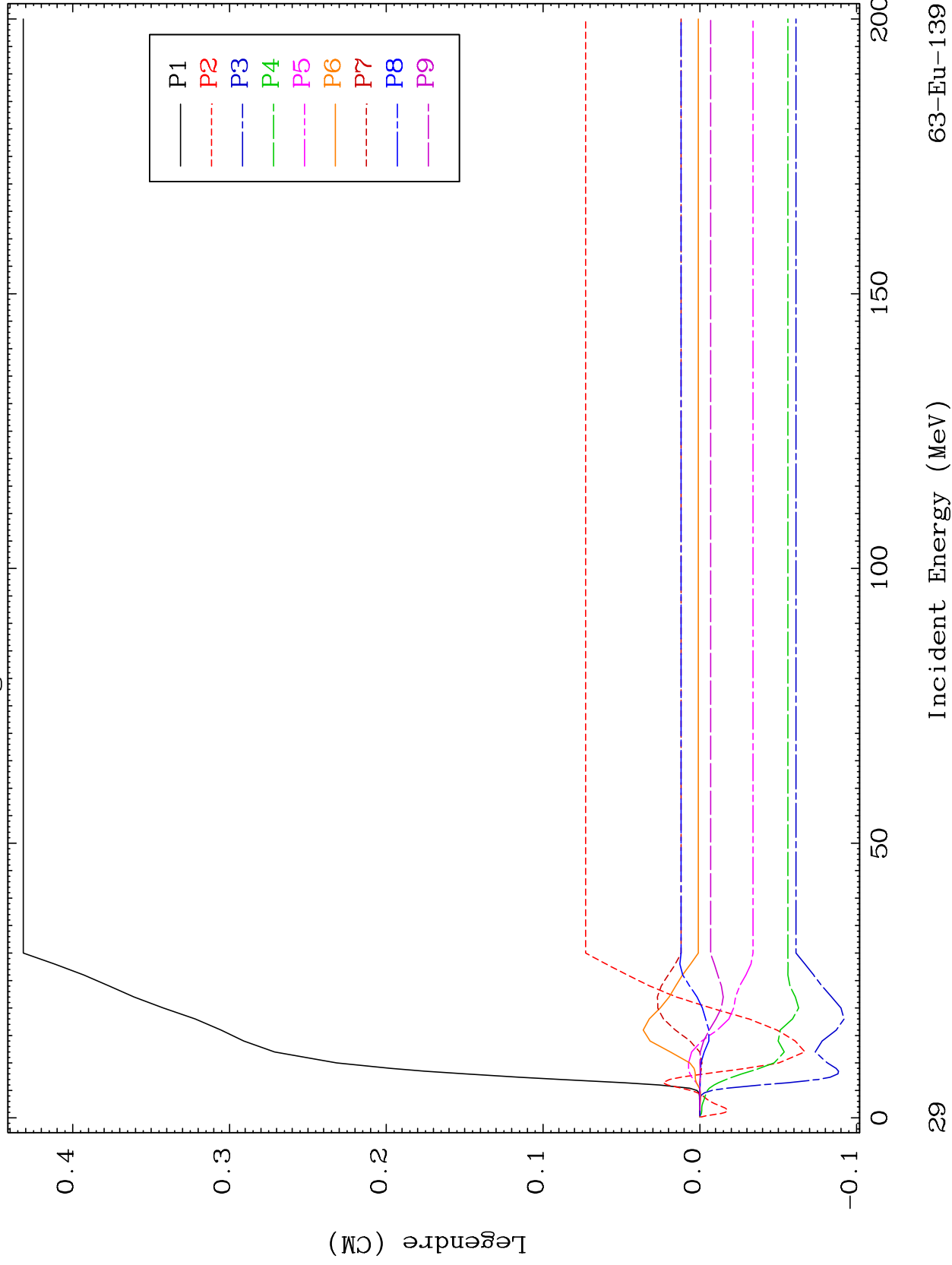




MAT 6289

148.3 keV (n, n') Level
Legendre Coefficients

63-Eu-139



63-Eu-139

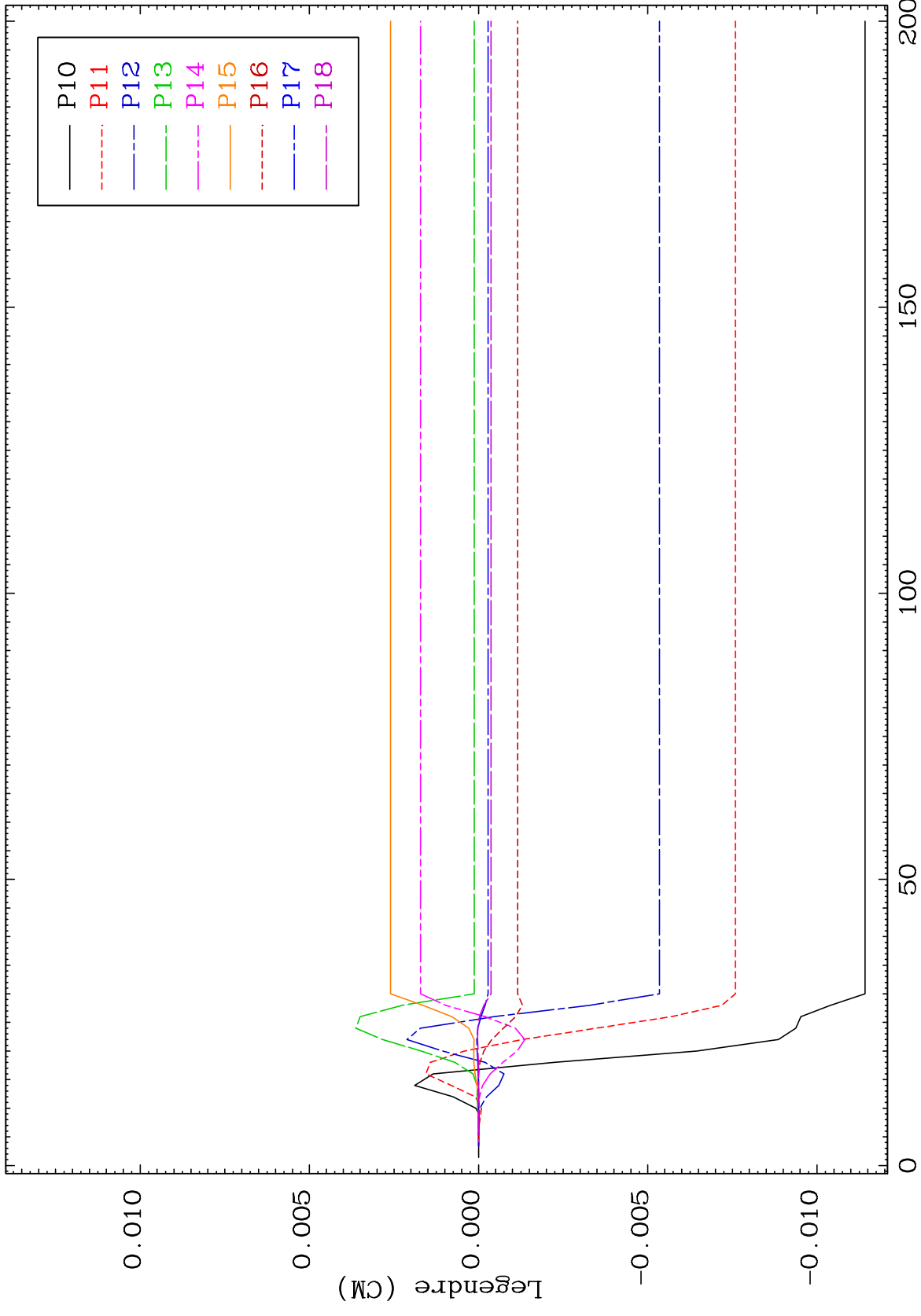
Incident Energy (MeV)

29

MAT 6289

148.3 keV (n,n') Level
Legendre Coefficients

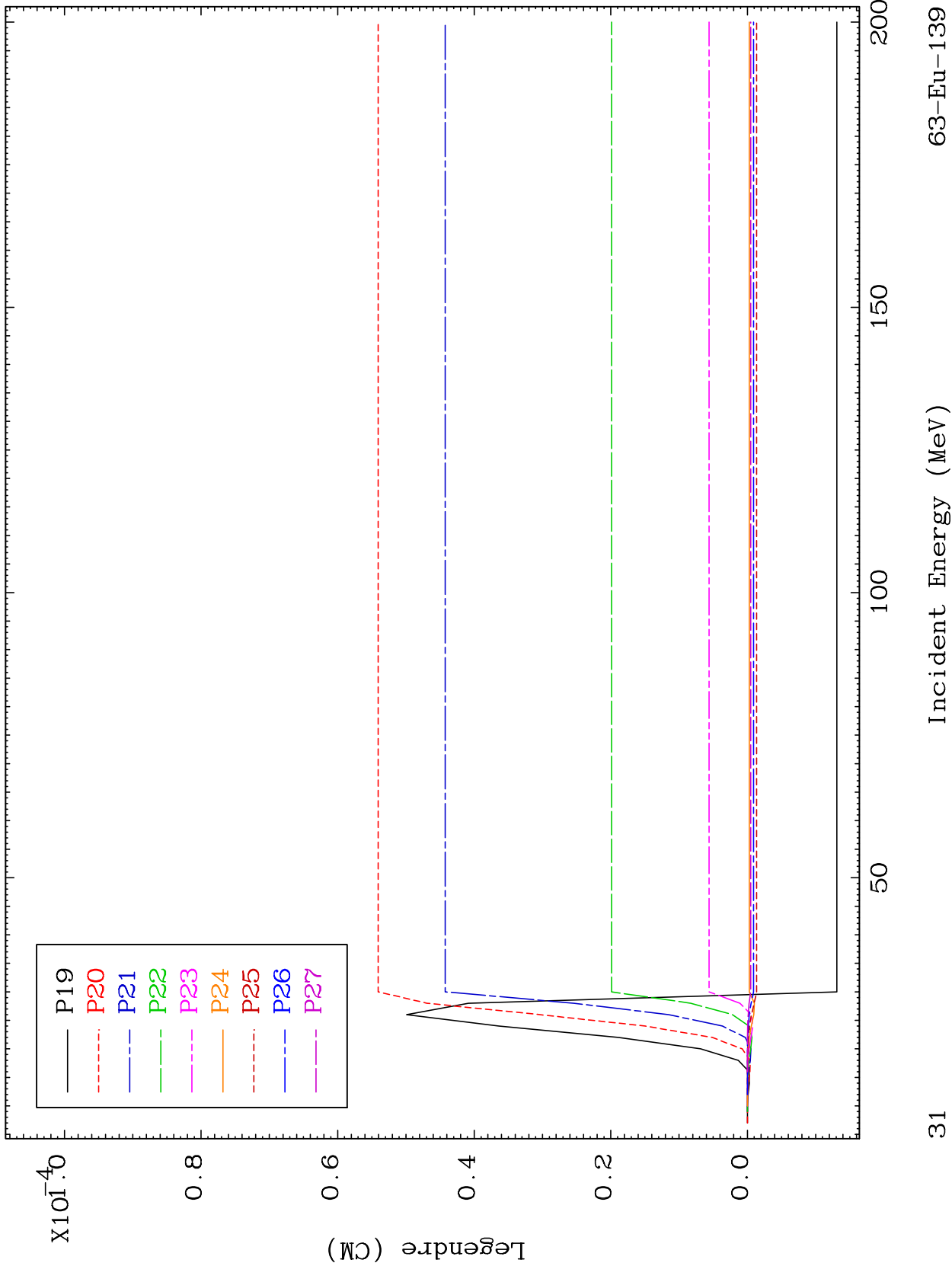
63-Eu-139

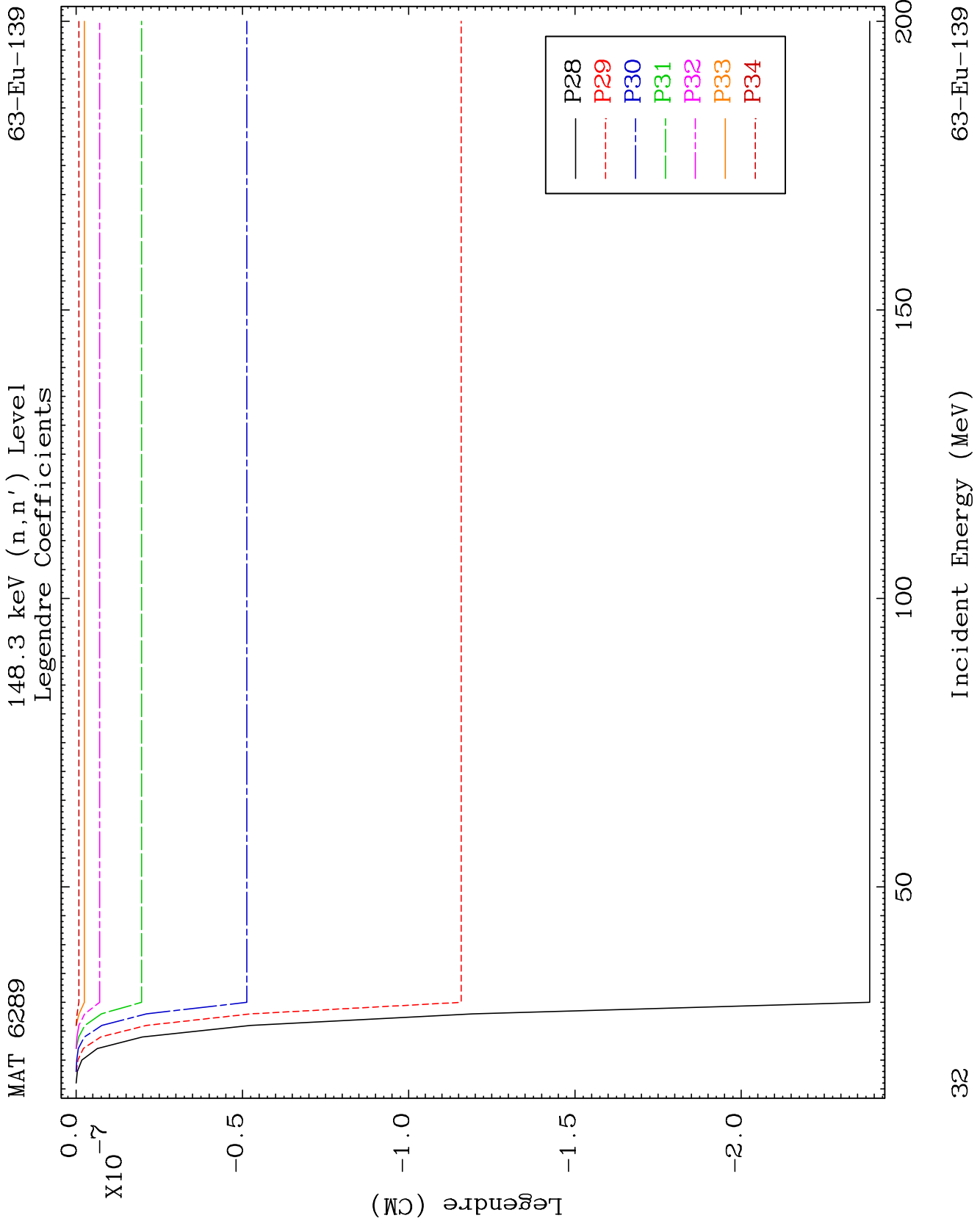


63-Eu-139

Incident Energy (MeV)

30

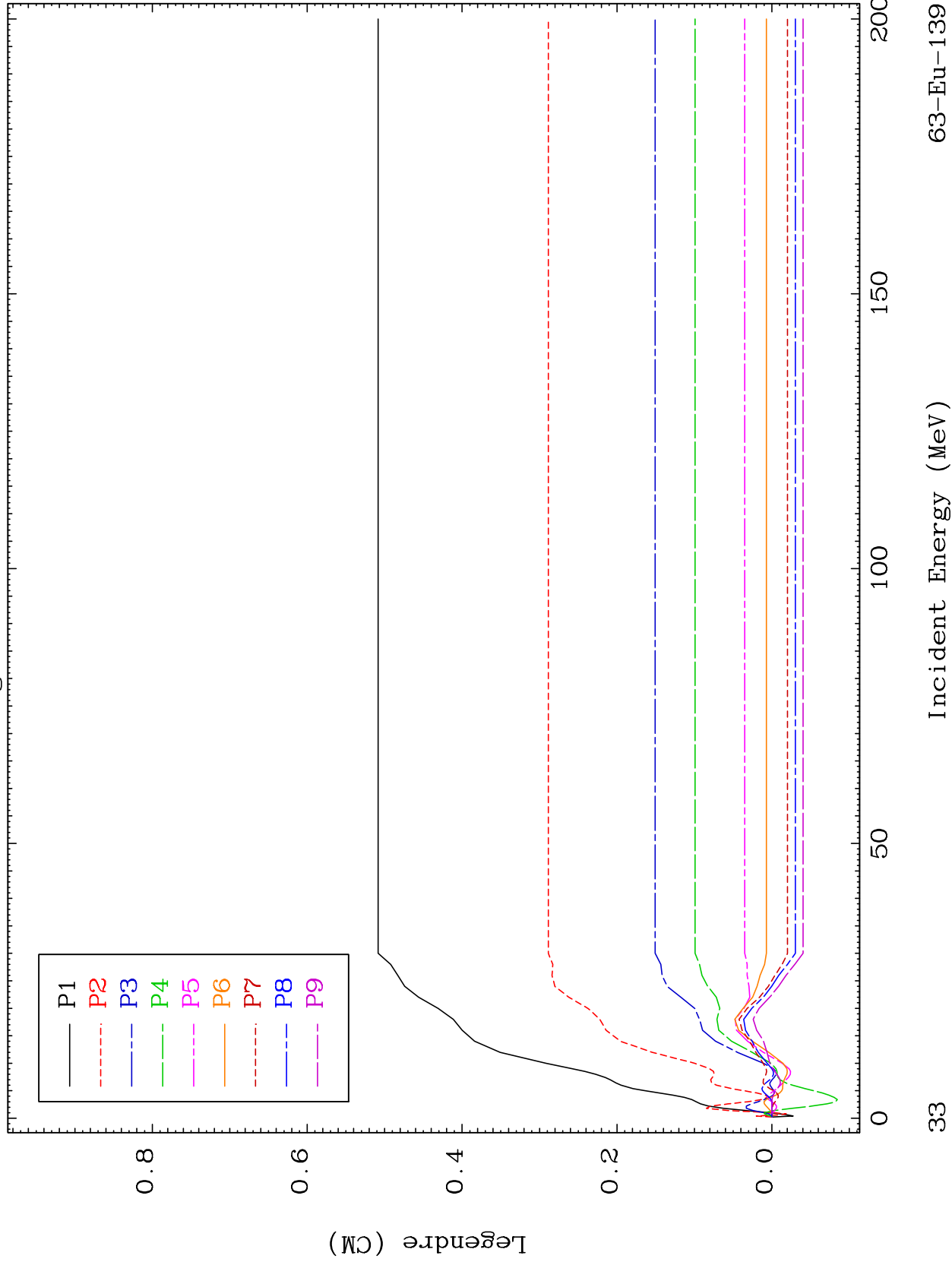




MAT 6289

206.7 keV (n,n') Level
Legendre Coefficients

63-Eu-139



63-Eu-139

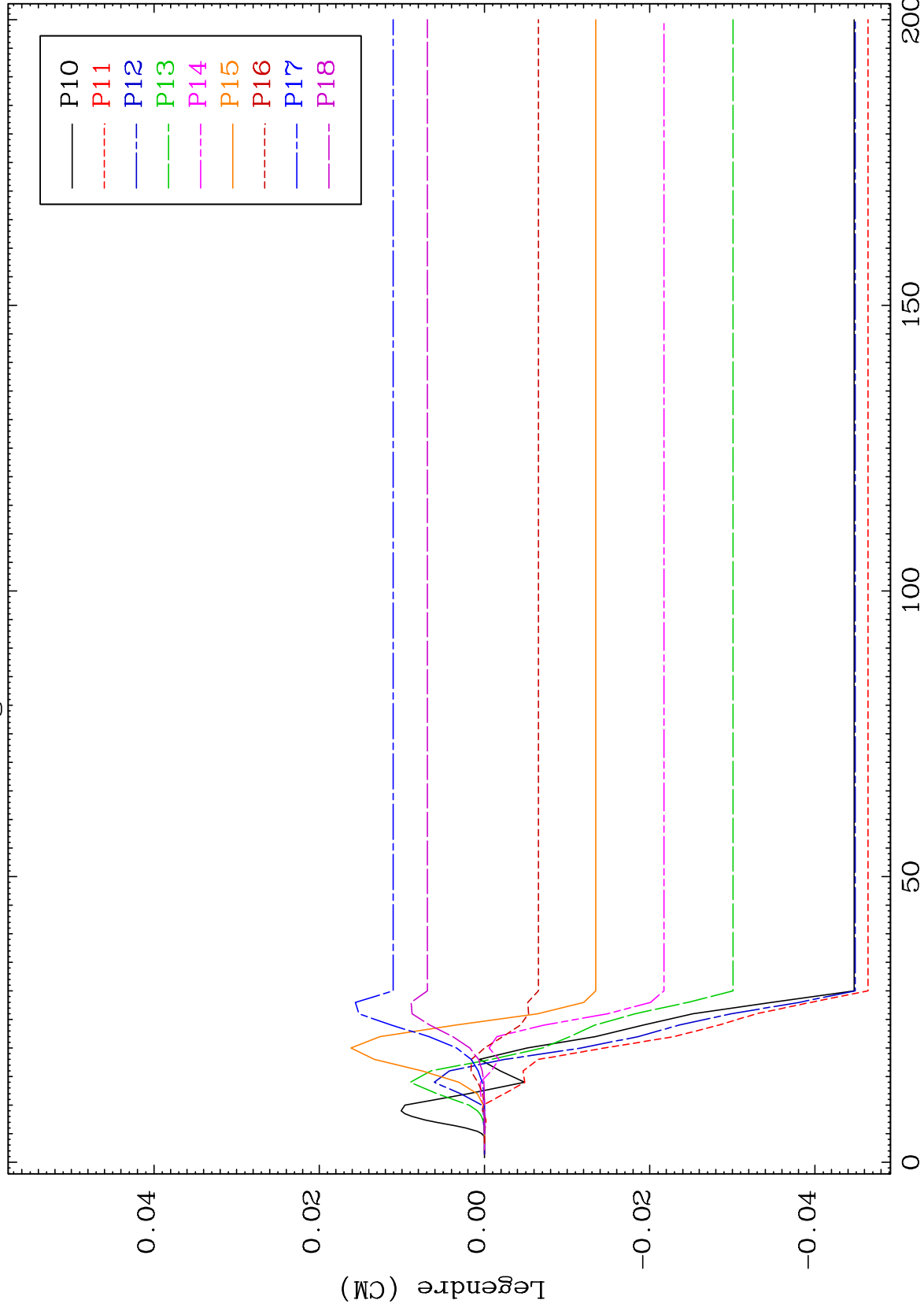
Incident Energy (MeV)

33

MAT 6289

206.7 keV (n,n') Level
Legendre Coefficients

63-Eu-139



34

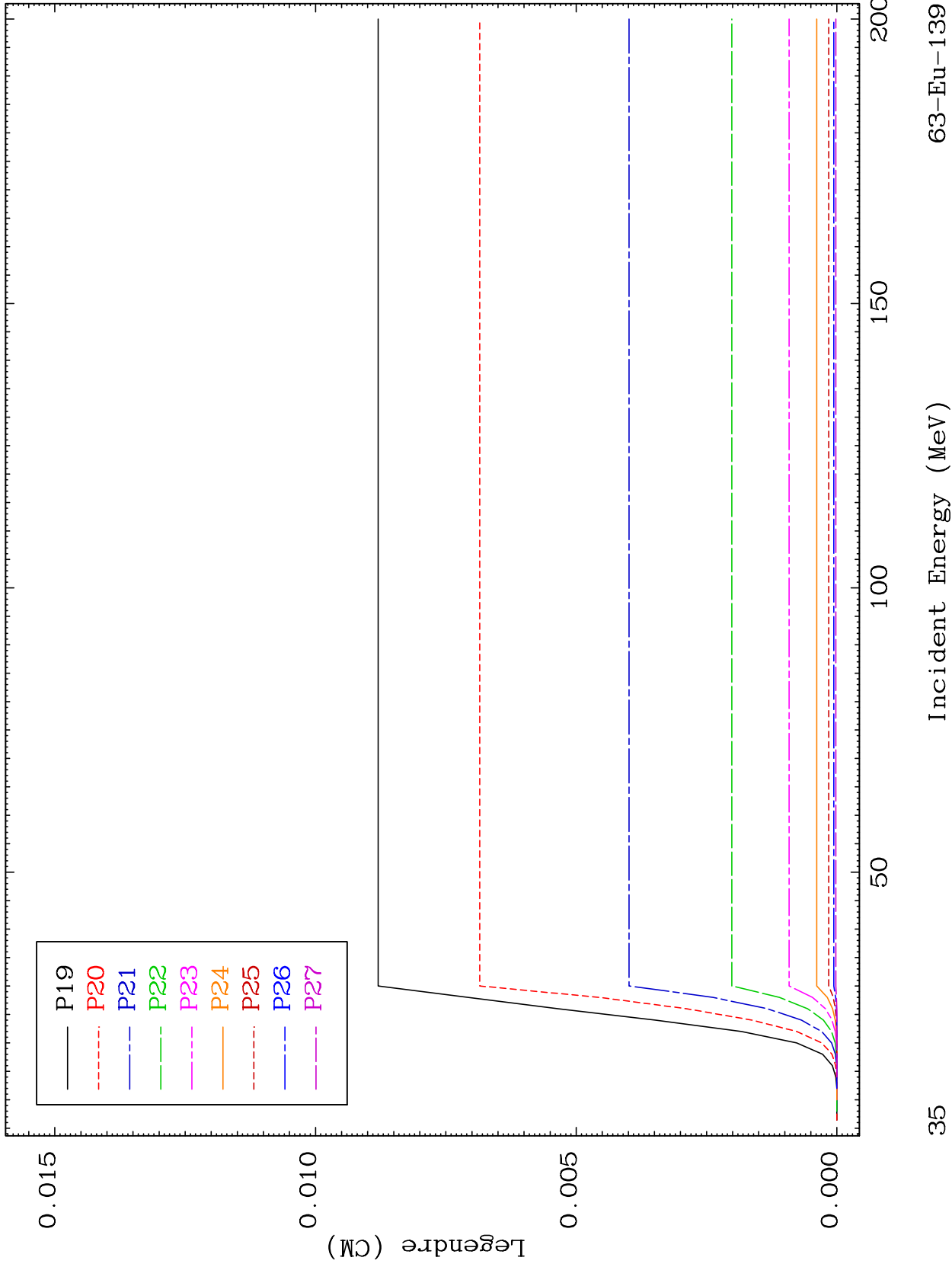
Incident Energy (MeV)

63-Eu-139

MAT 6289

206.7 keV (n,n') Level
Legendre Coefficients

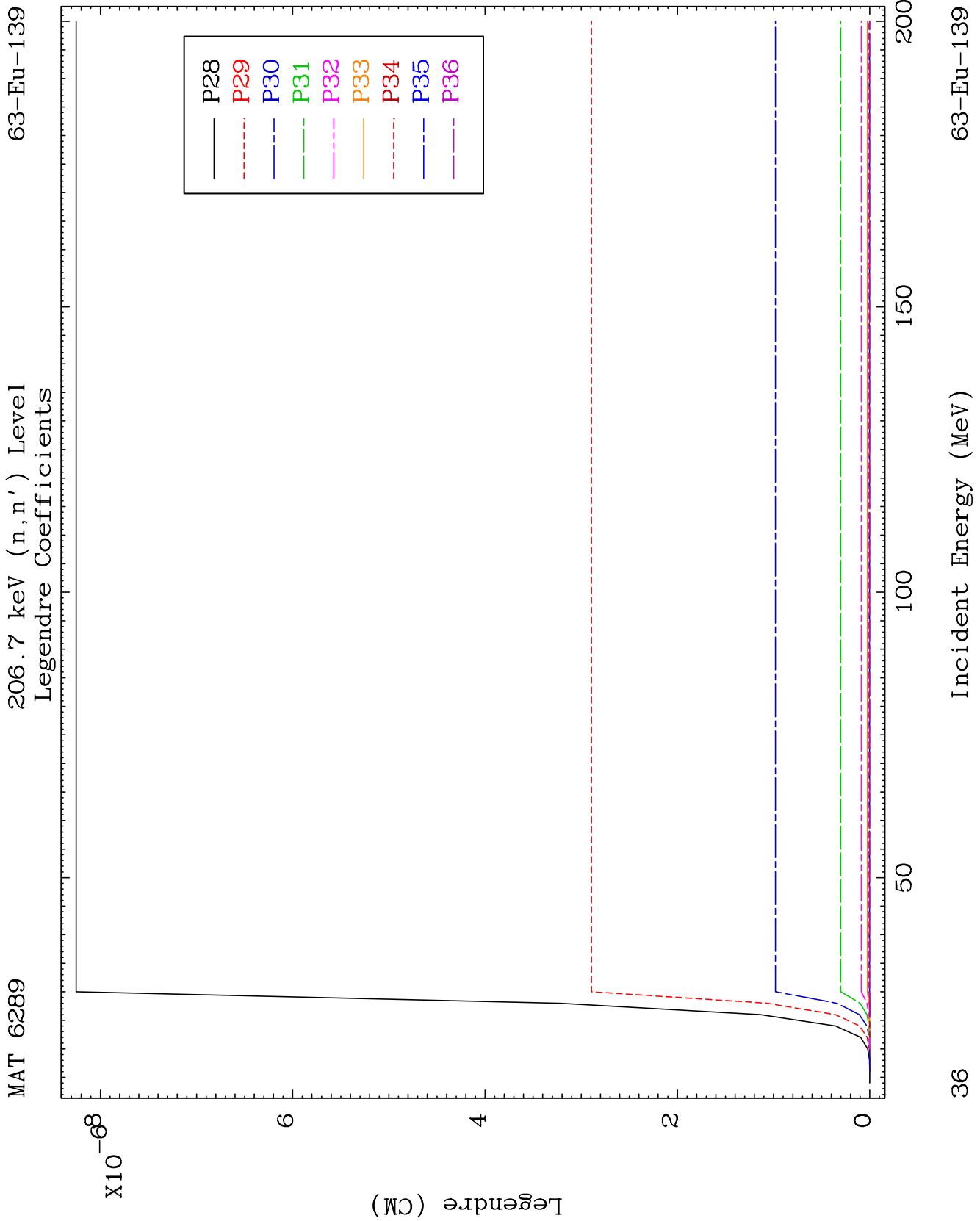
63-Eu-139



35

Incident Energy (MeV)

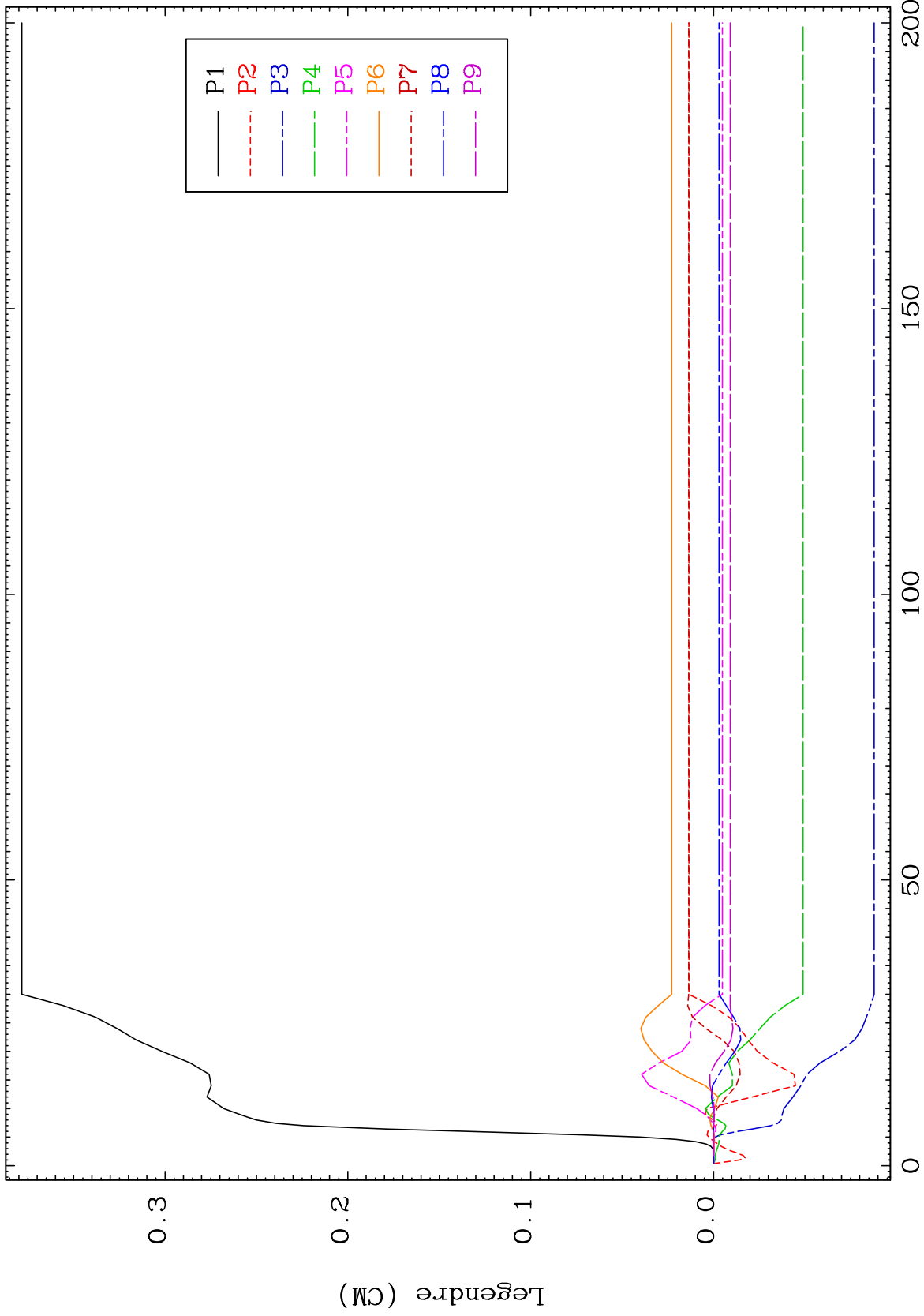
63-Eu-139



MAT 6289

319.5 keV (n,n') Level
Legendre Coefficients

63-Eu-139



37

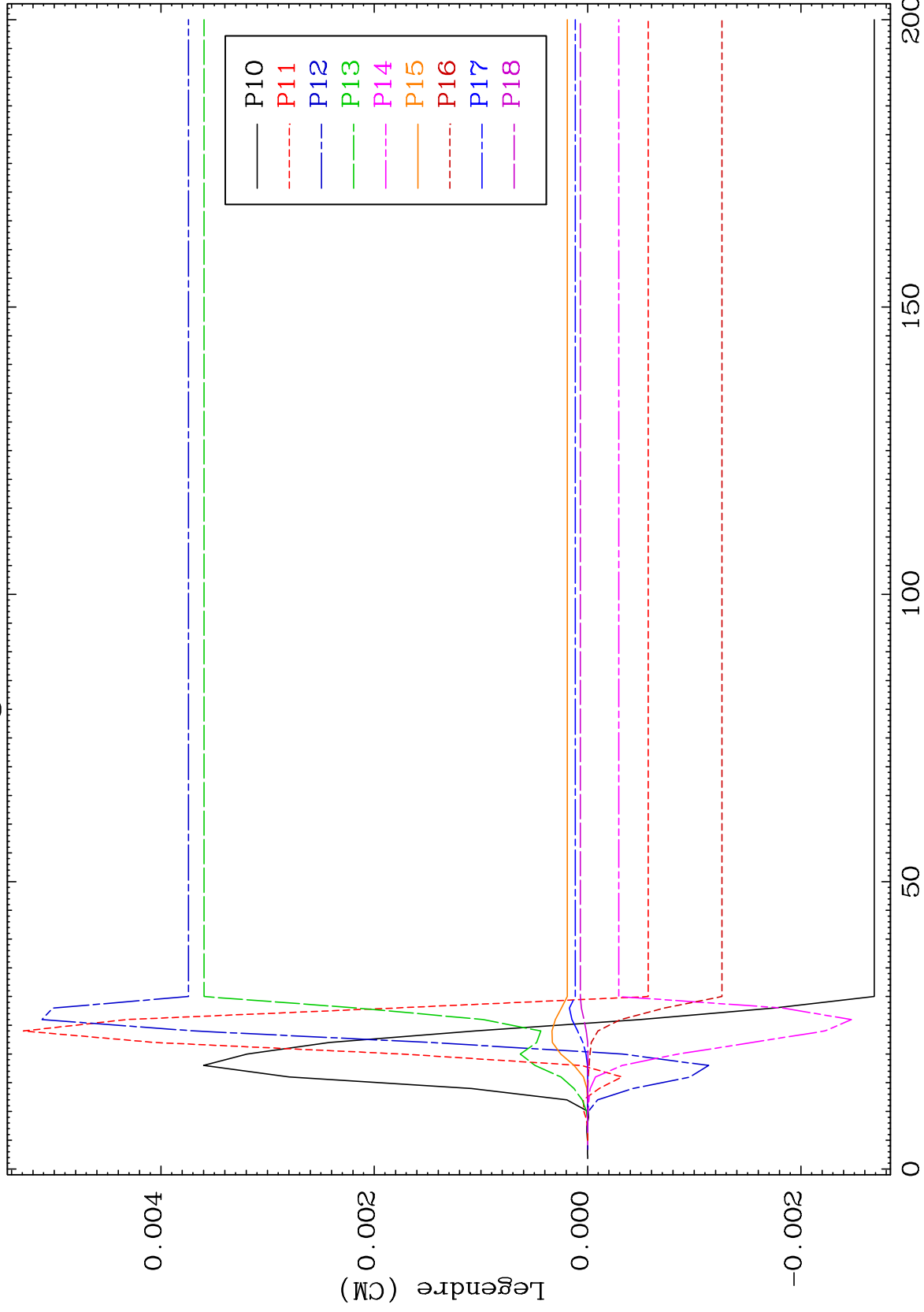
Incident Energy (MeV)

63-Eu-139

MAT 6289

319.5 keV (n,n') Level
Legendre Coefficients

63-Eu-139



38

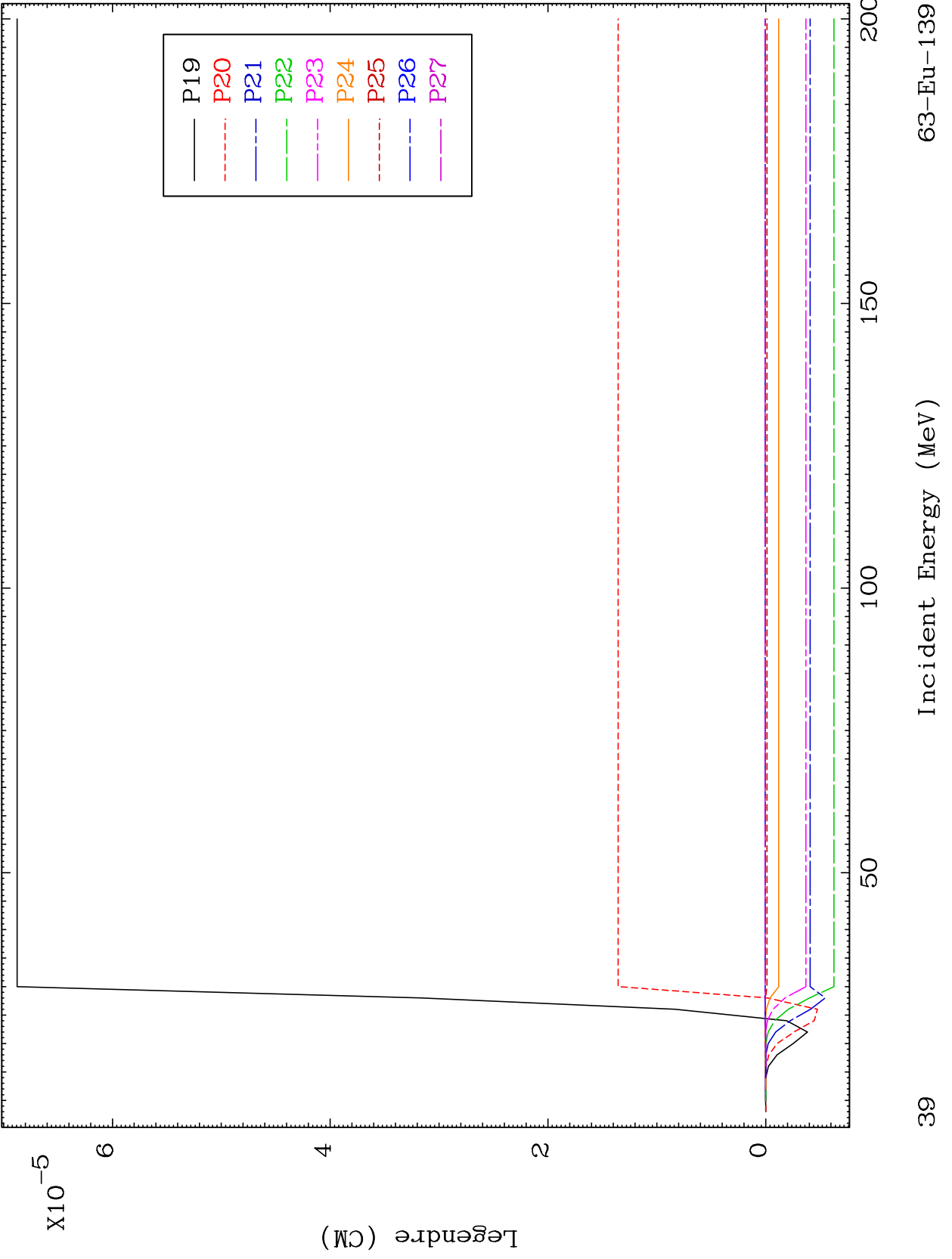
Incident Energy (MeV)

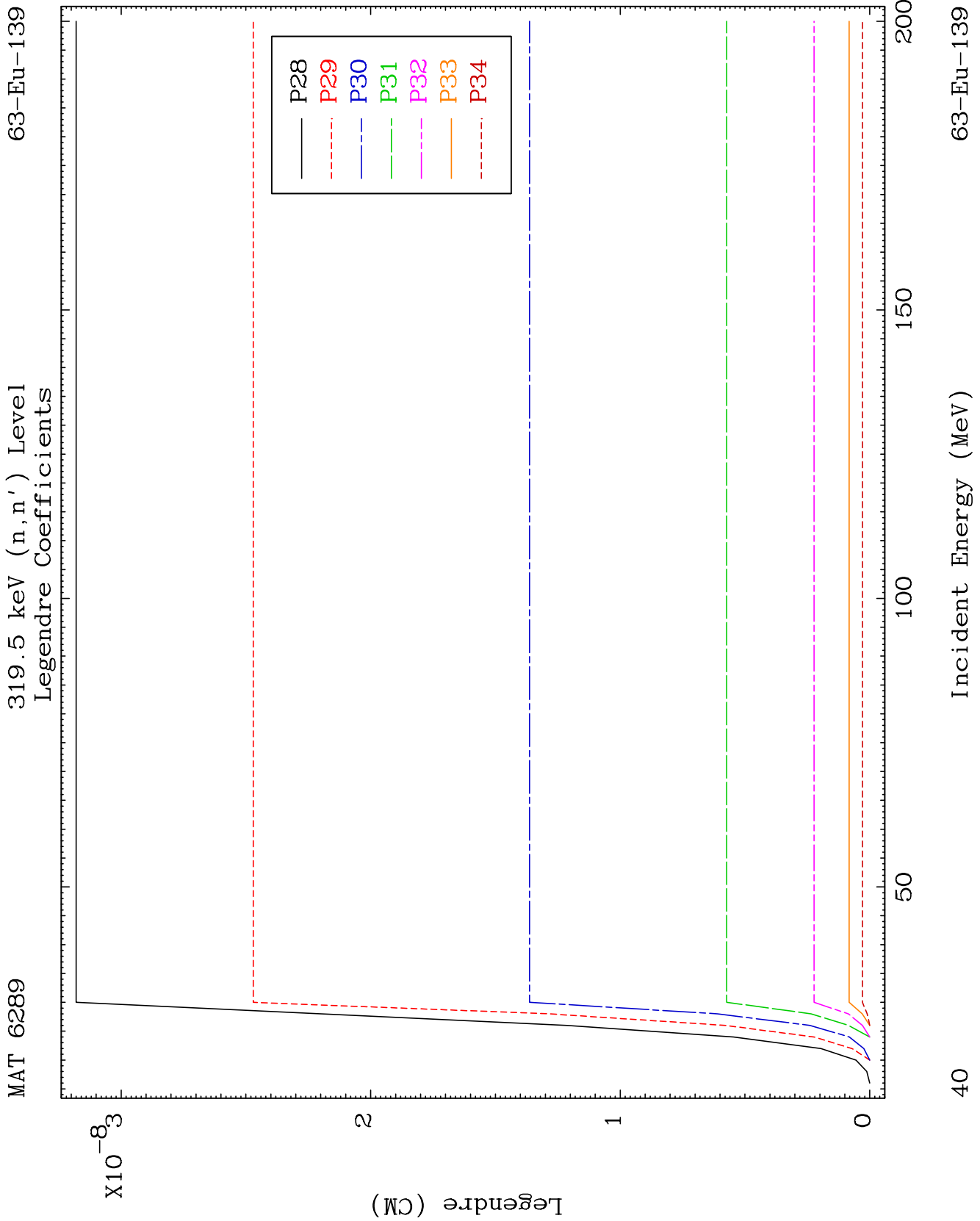
63-Eu-139

MAT 6289

319.5 keV (n, n') Level
Legendre Coefficients

63-Eu-139

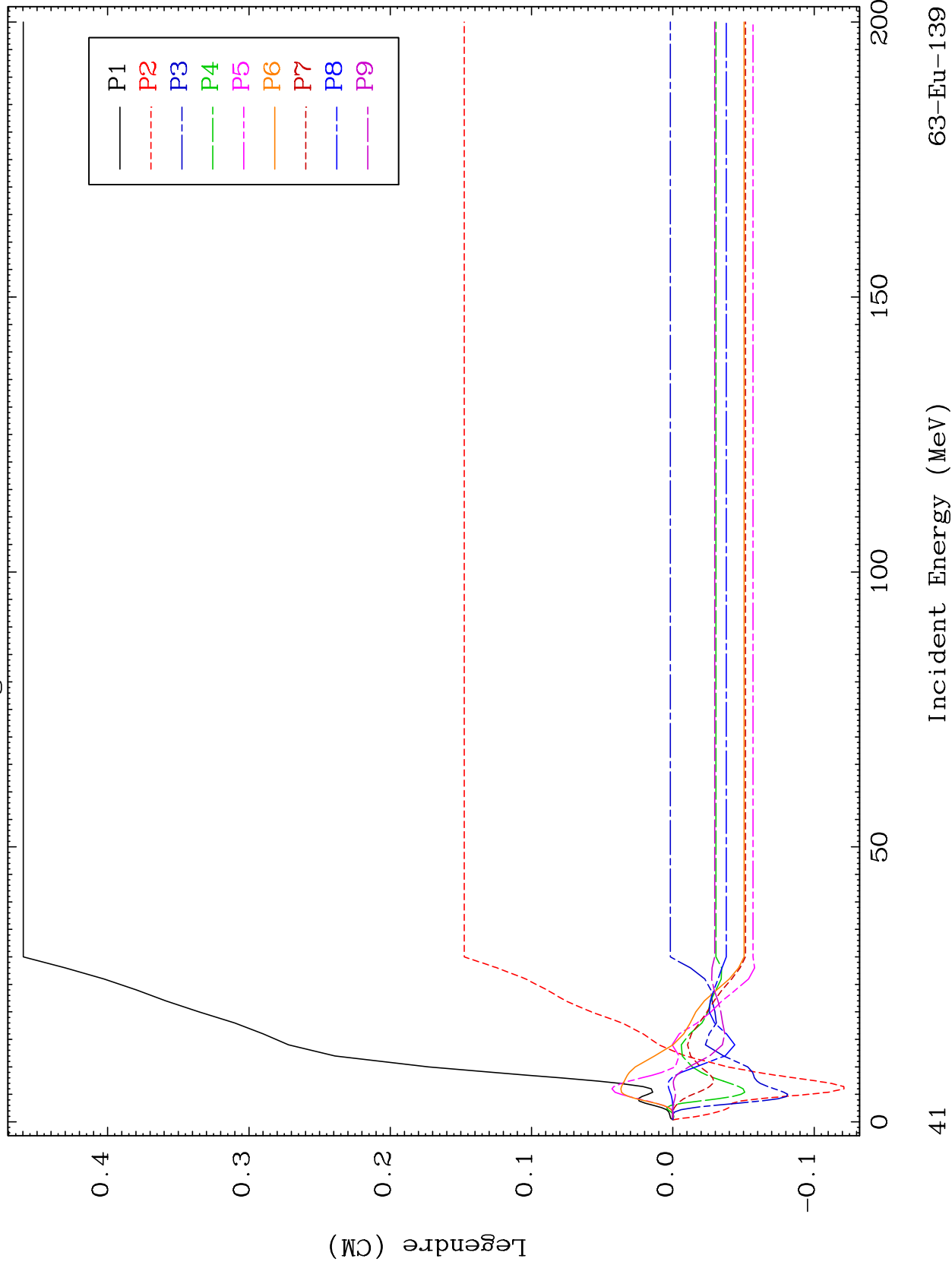




MAT 6289

322.8 keV (n,n') Level
Legendre Coefficients

63-Eu-139



63-Eu-139

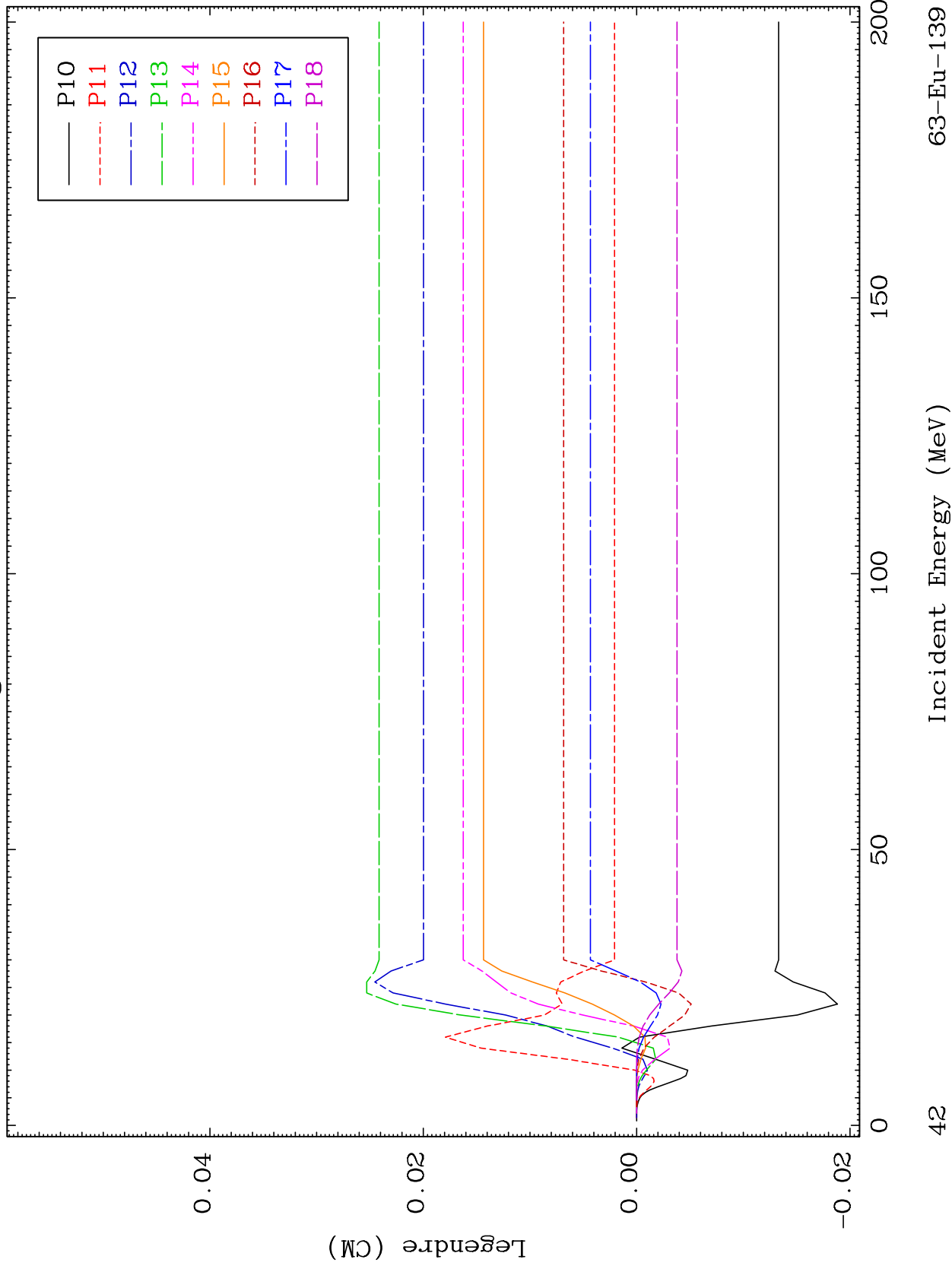
Incident Energy (MeV)

41

MAT 6289

322.8 keV (n,n') Level
Legendre Coefficients

63-Eu-139



63-Eu-139

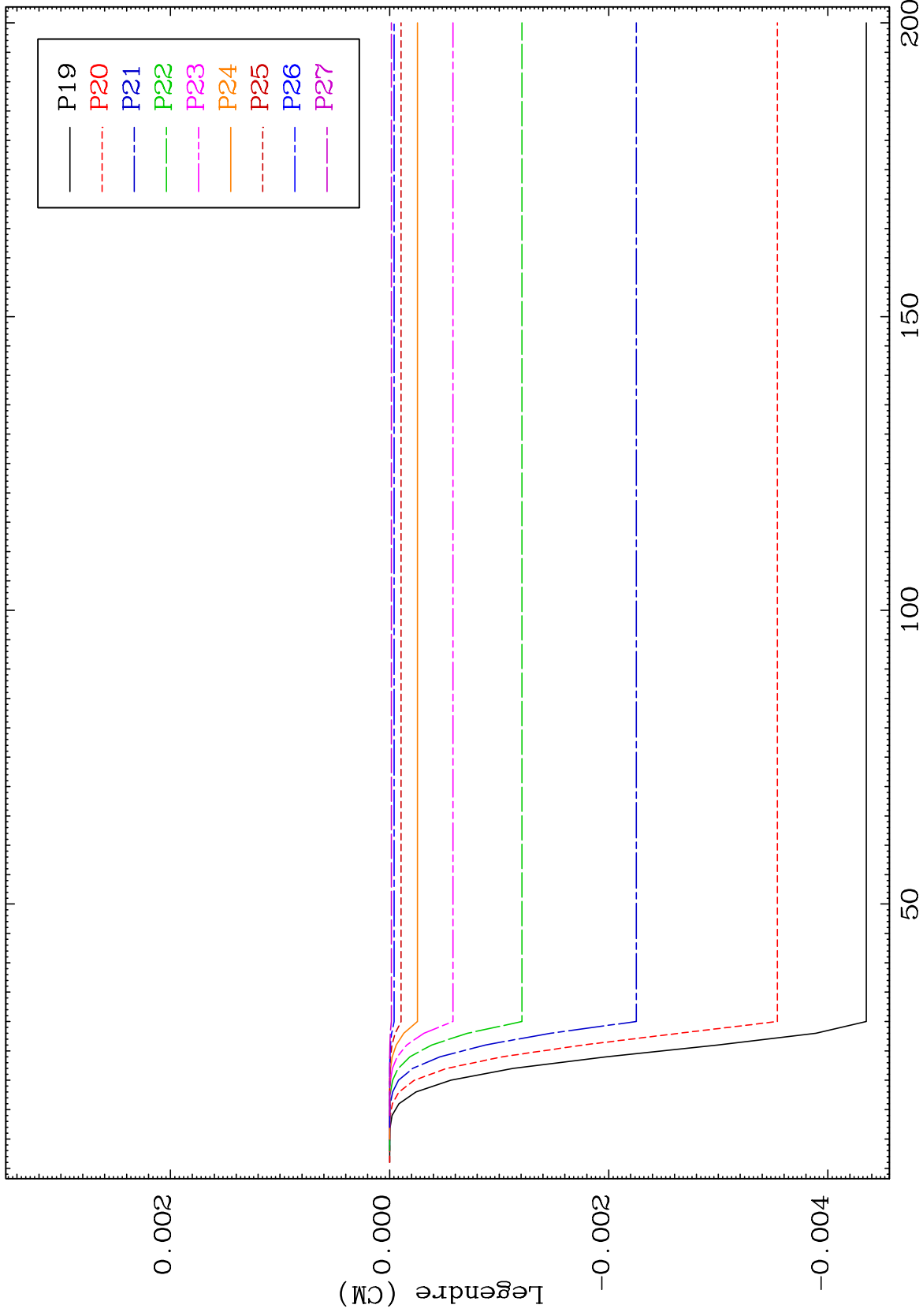
Incident Energy (MeV)

42

MAT 6289

322.8 keV (n,n') Level
Legendre Coefficients

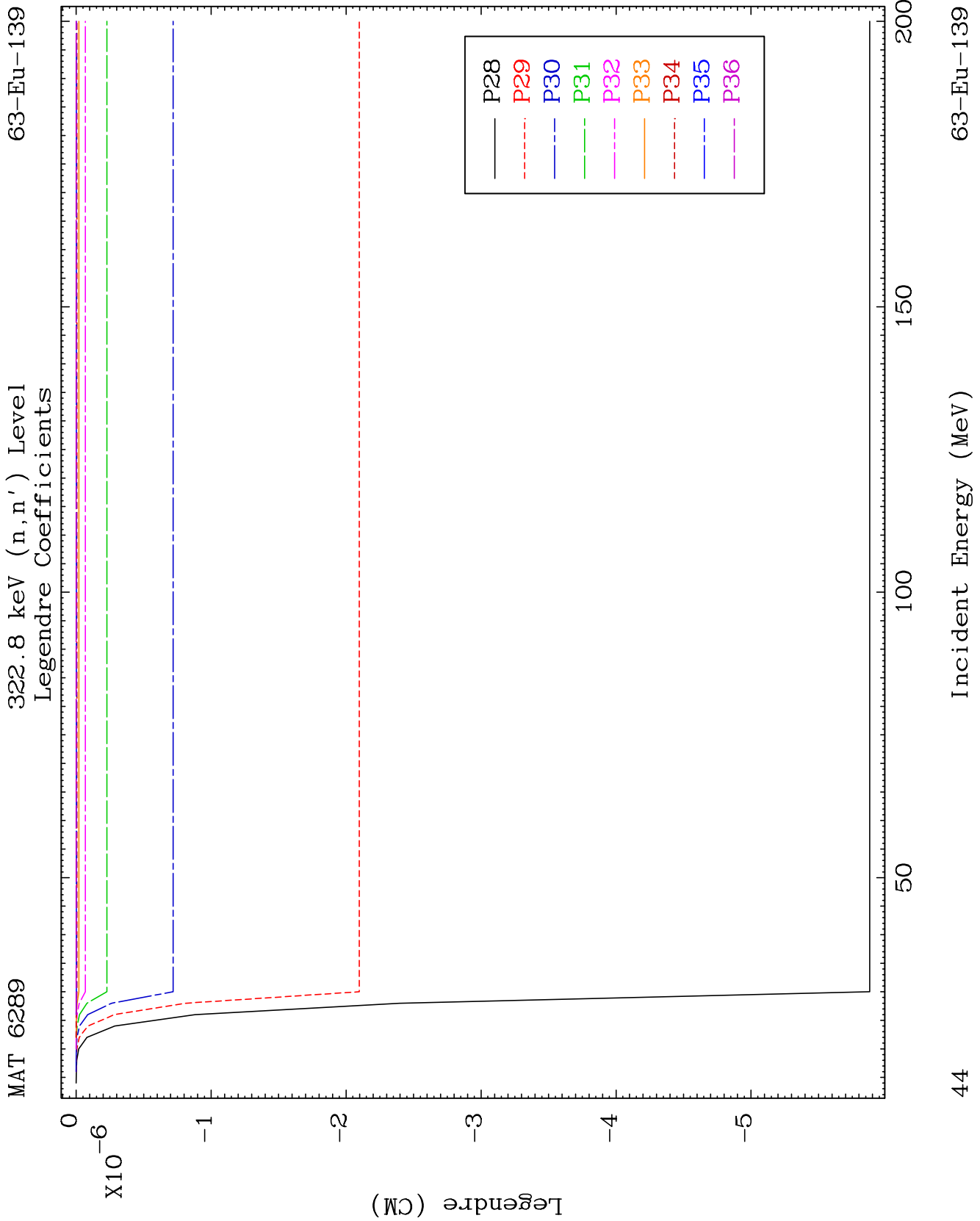
63-Eu-139



43

Incident Energy (MeV)

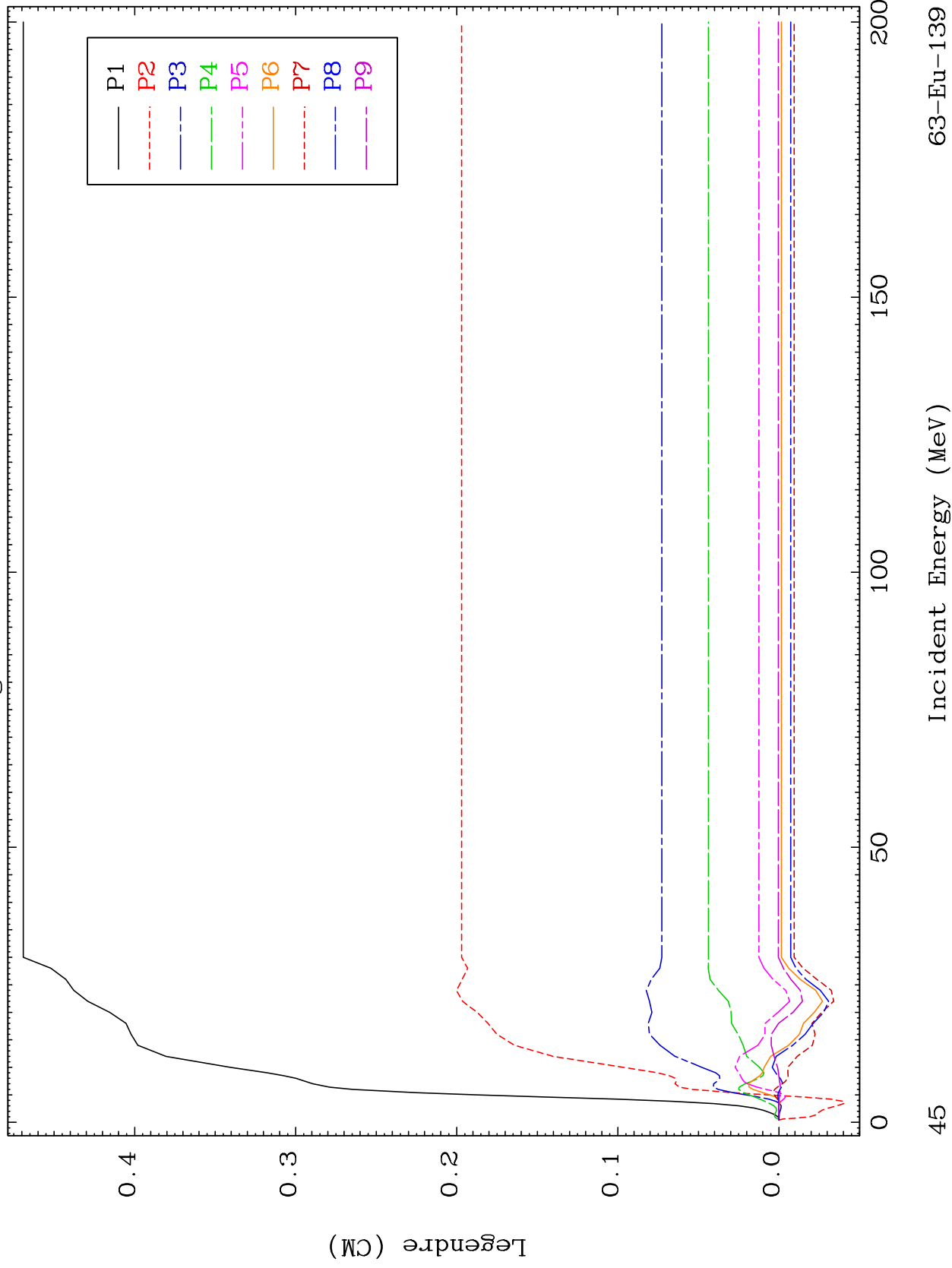
63-Eu-139



MAT 6289

406.7 keV (n,n') Level
Legendre Coefficients

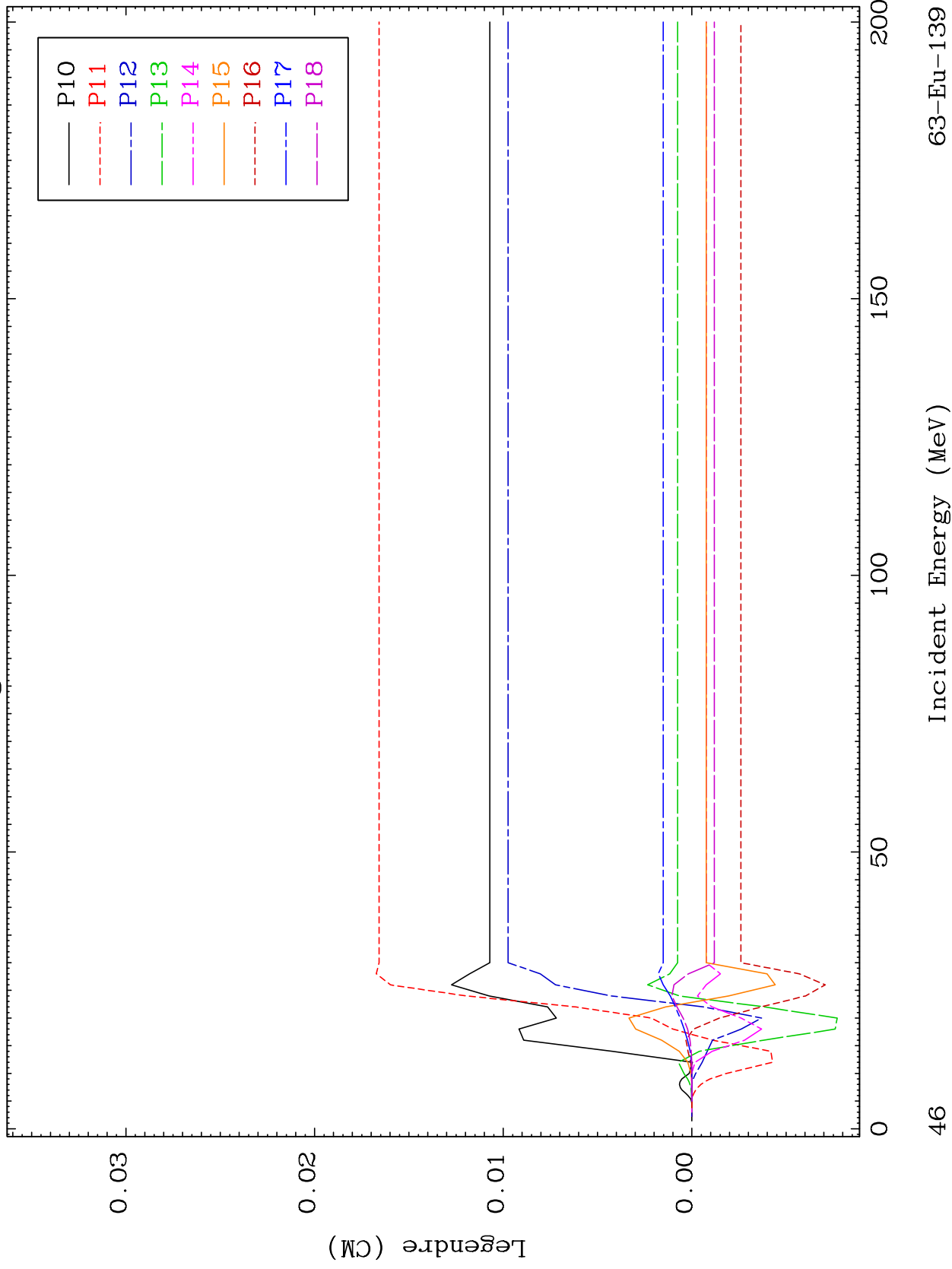
63-Eu-139



MAT 6289

406.7 keV (n,n') Level
Legendre Coefficients

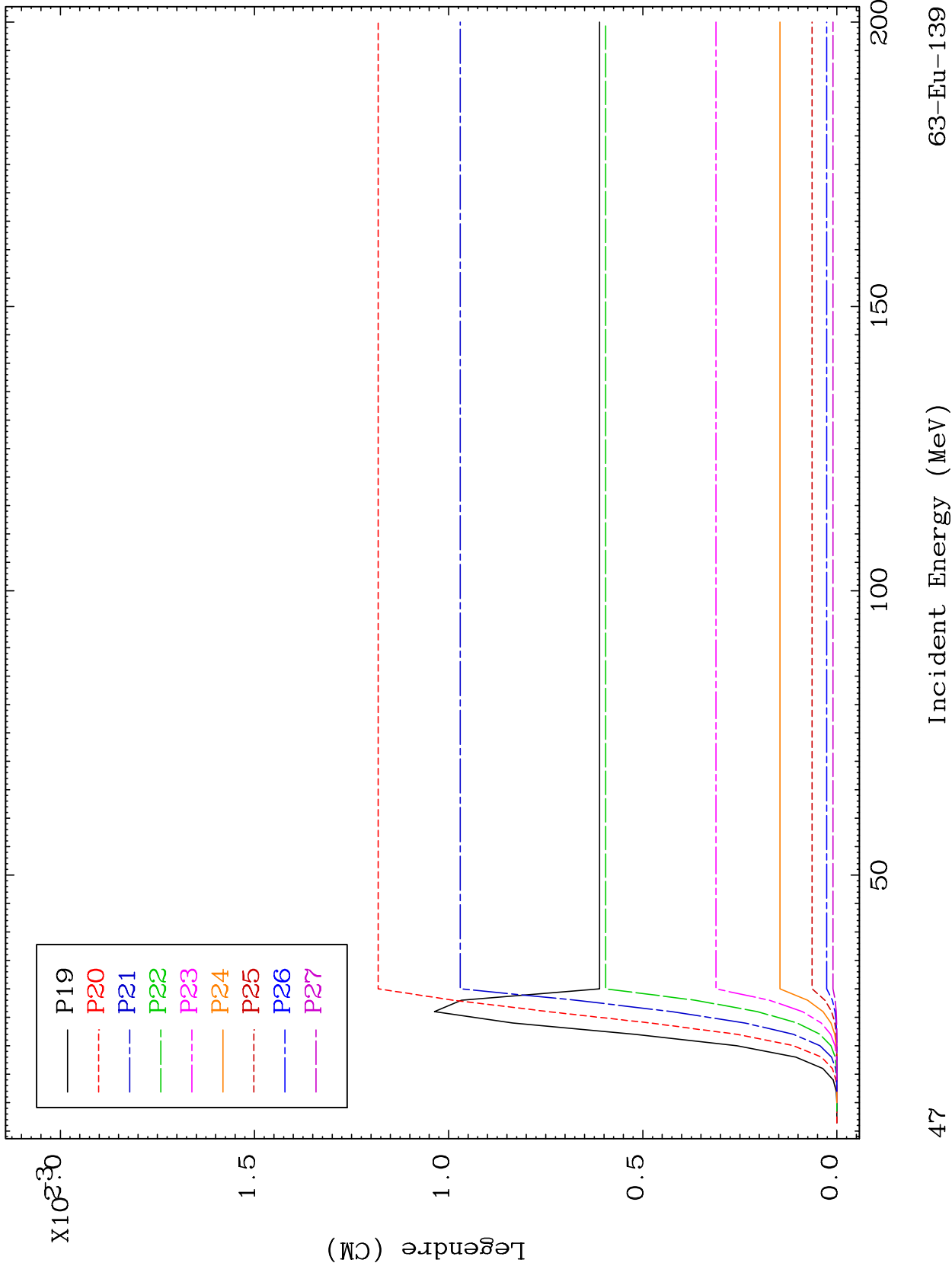
63-Eu-139



63-Eu-139

Incident Energy (MeV)

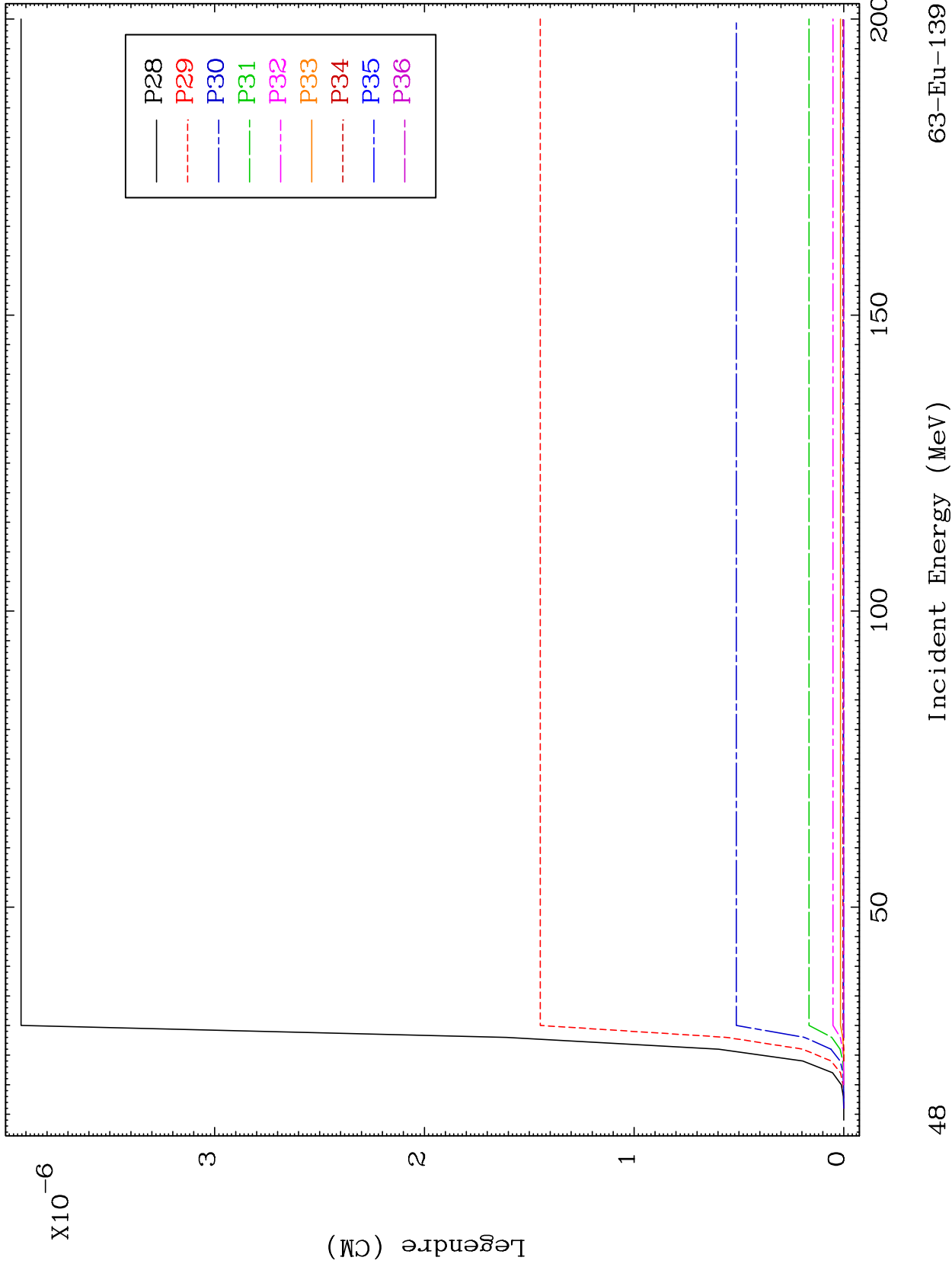
46



MAT 6289

406.7 keV (n,n') Level
Legendre Coefficients

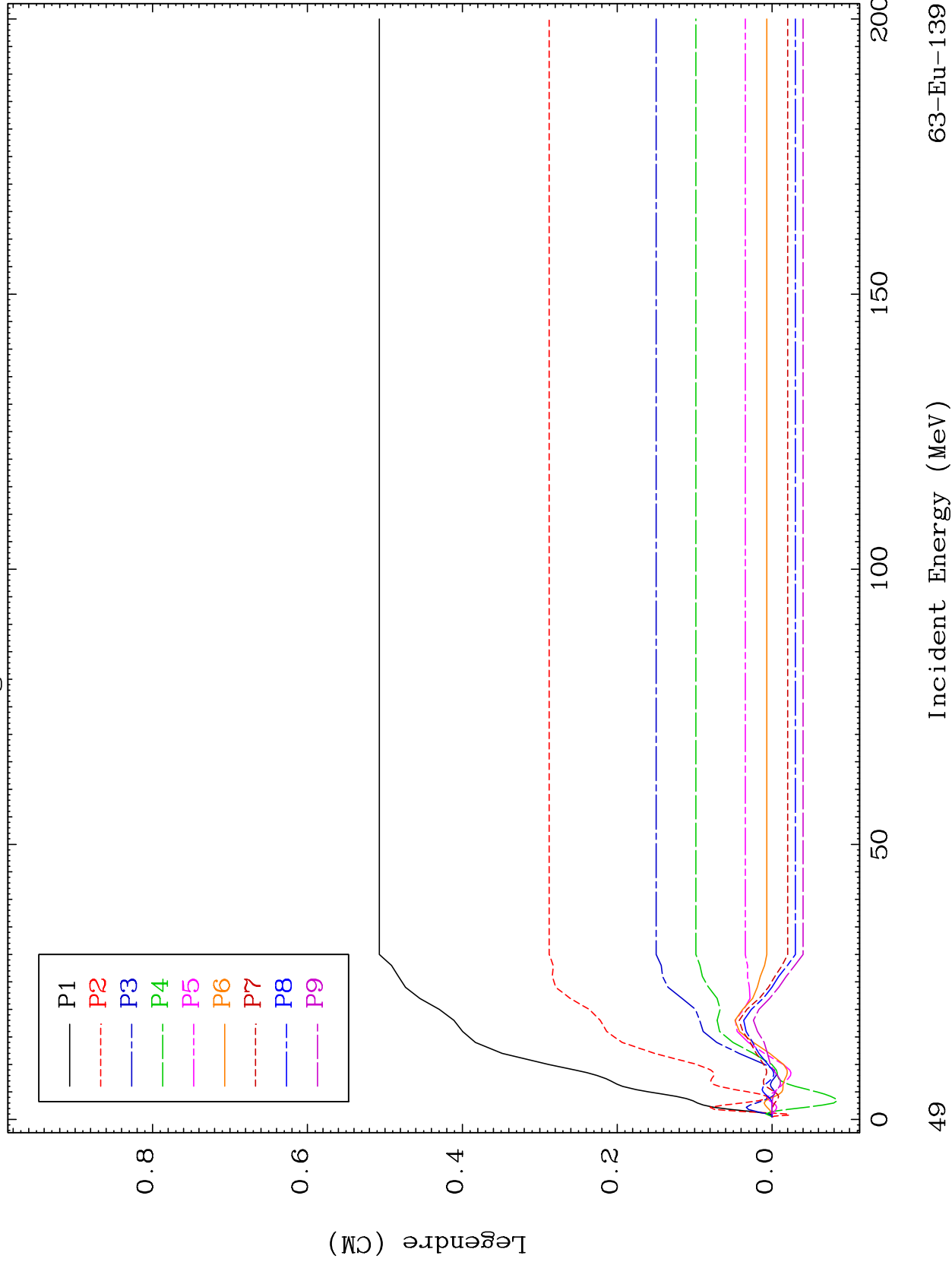
63-Eu-139



MAT 6289

426.7 keV (n,n') Level
Legendre Coefficients

63-Eu-139



49

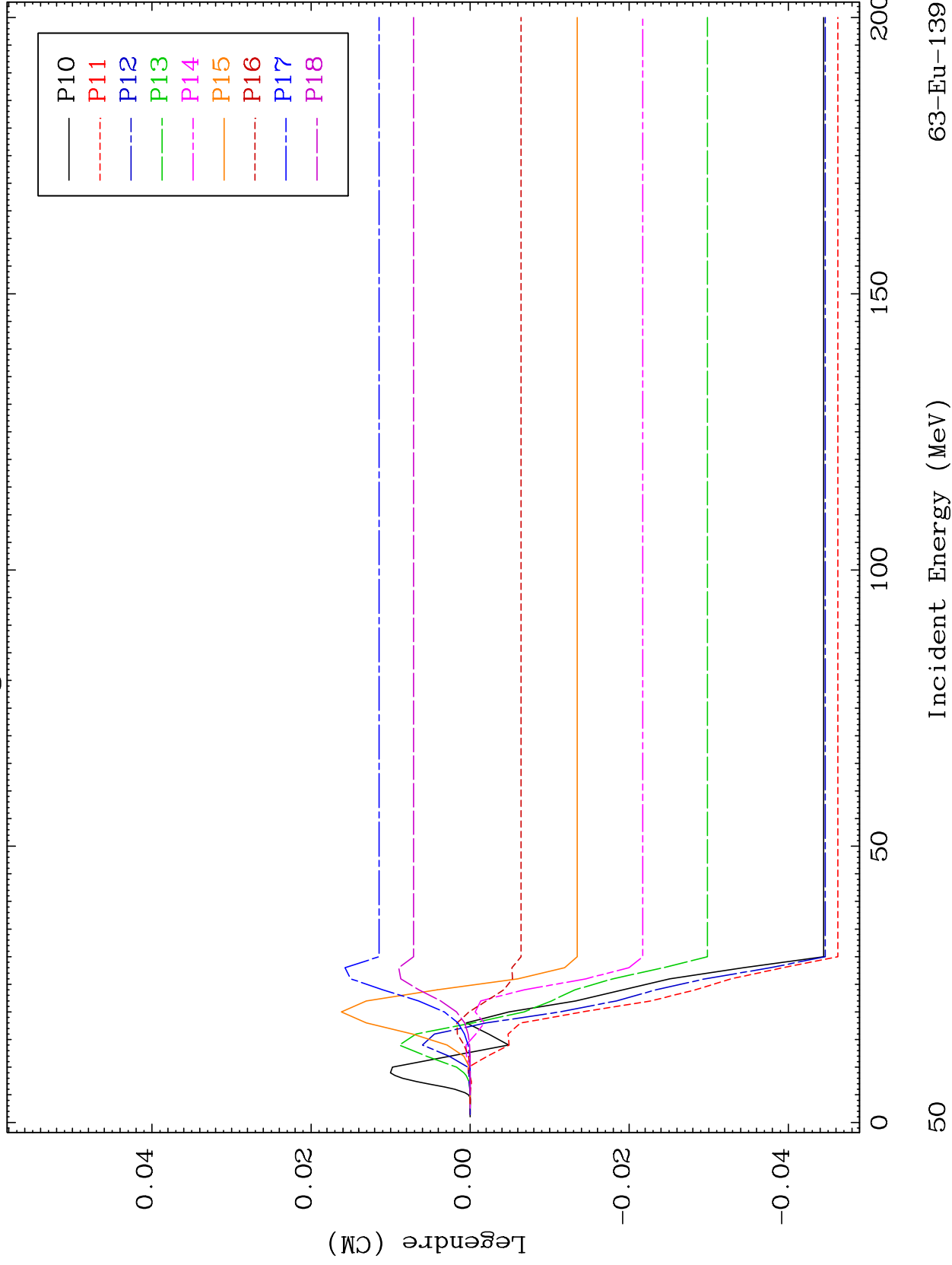
Incident Energy (MeV)

63-Eu-139

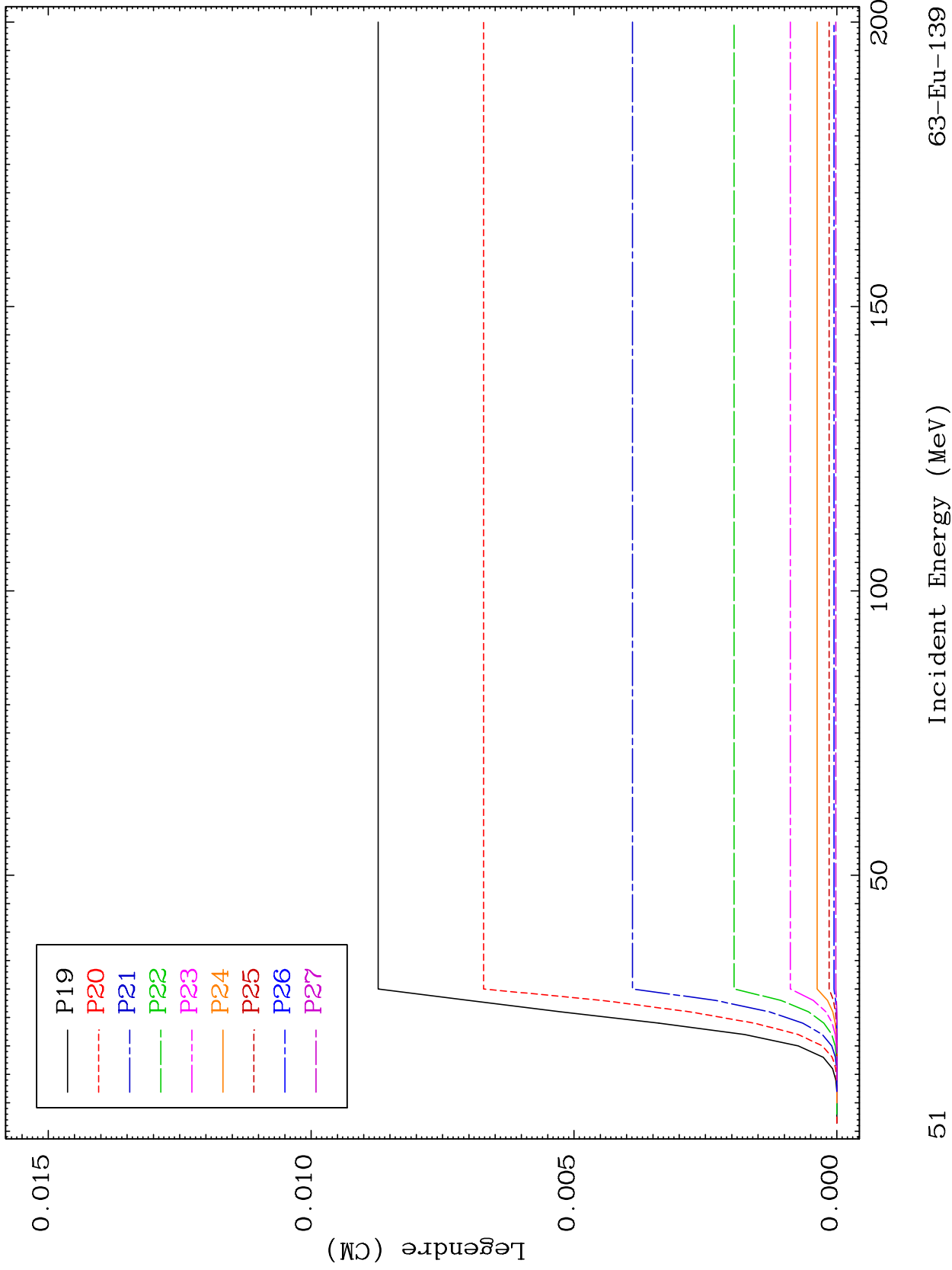
MAT 6289

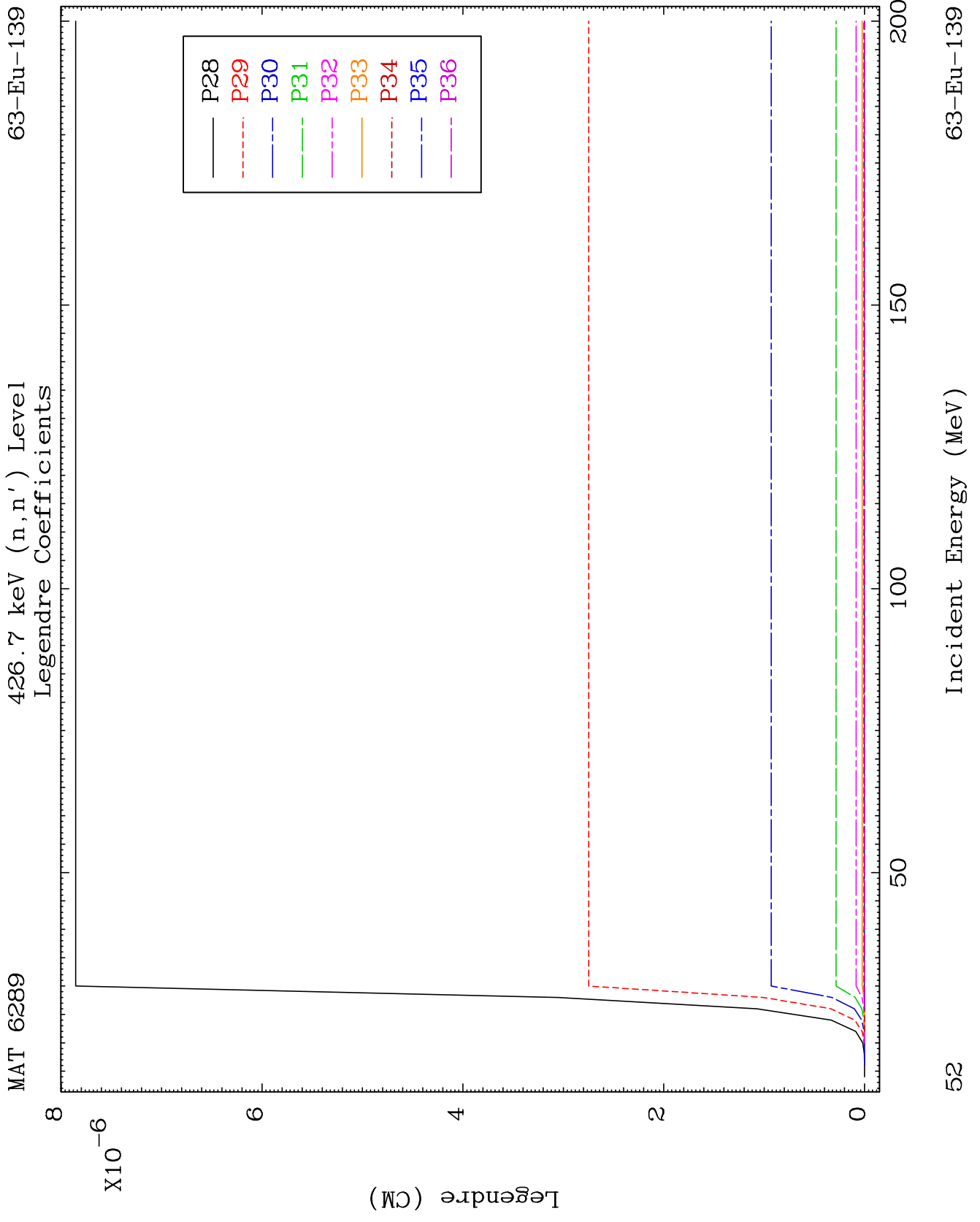
426.7 keV (n,n') Level
Legendre Coefficients

63-Eu-139



63-Eu-139

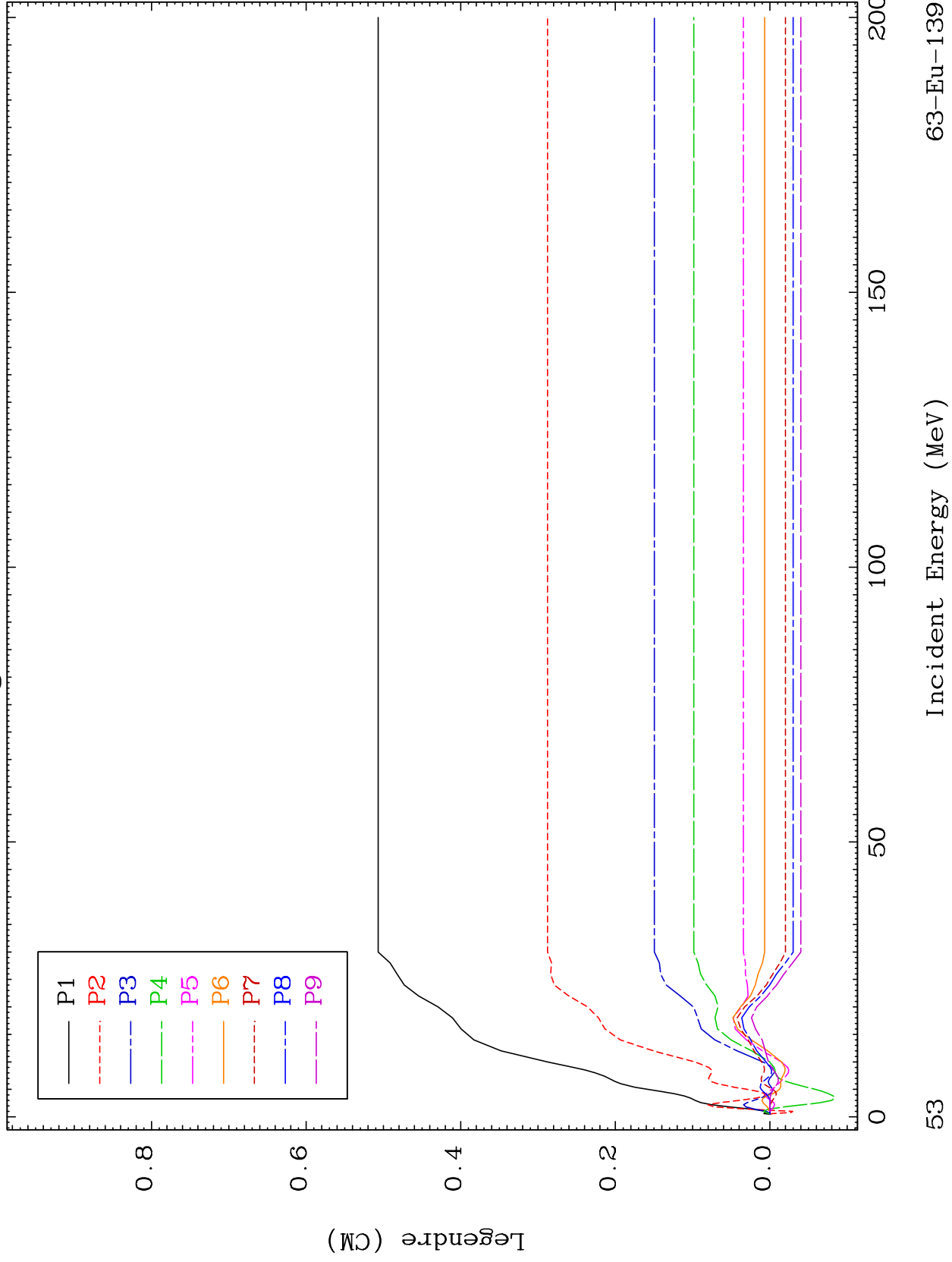




MAT 6289

471.8 keV (n,n') Level
Legendre Coefficients

63-Eu-139



53

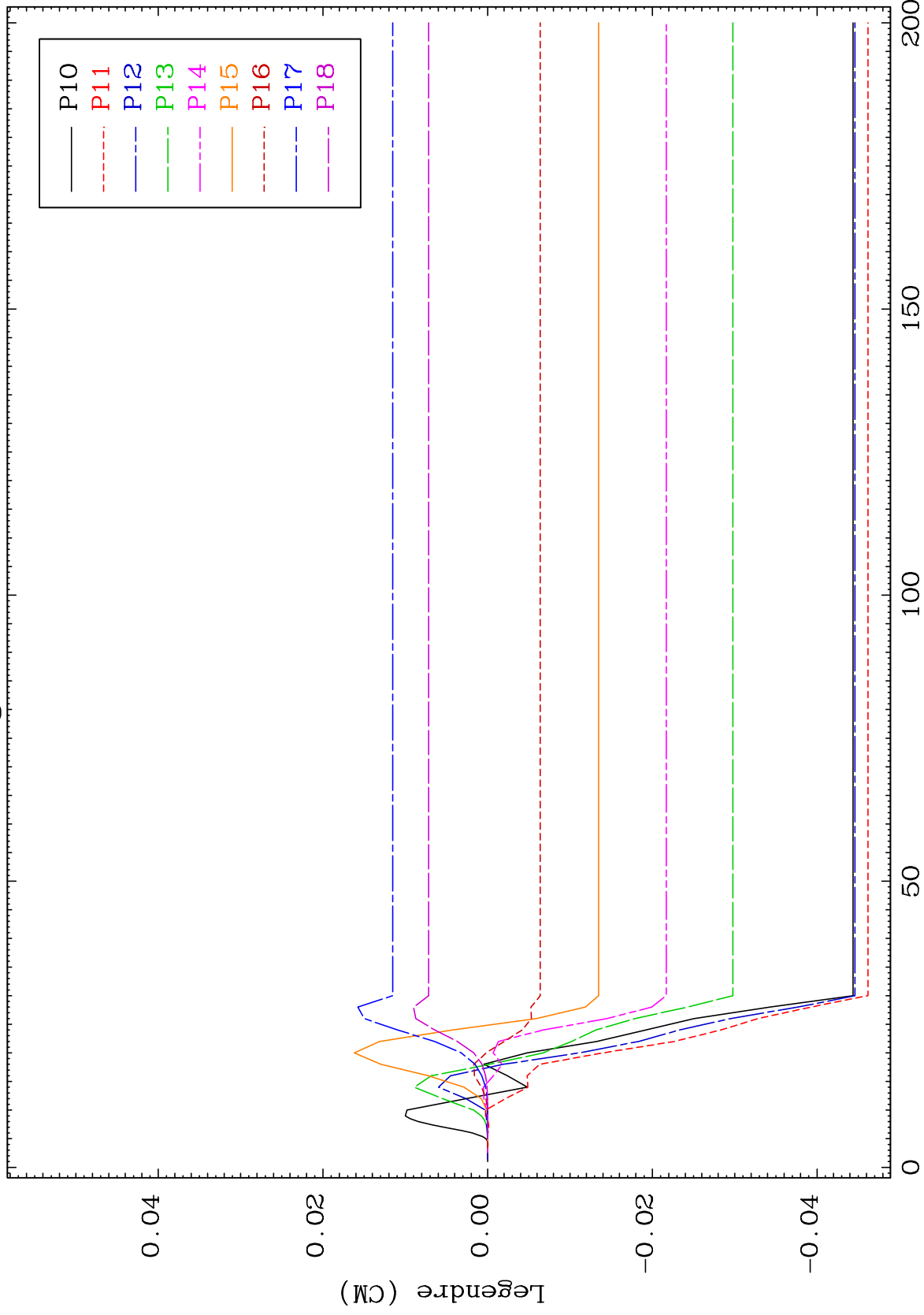
Incident Energy (MeV)

63-Eu-139

MAT 6289

471.8 keV (n,n') Level
Legendre Coefficients

63-Eu-139



54

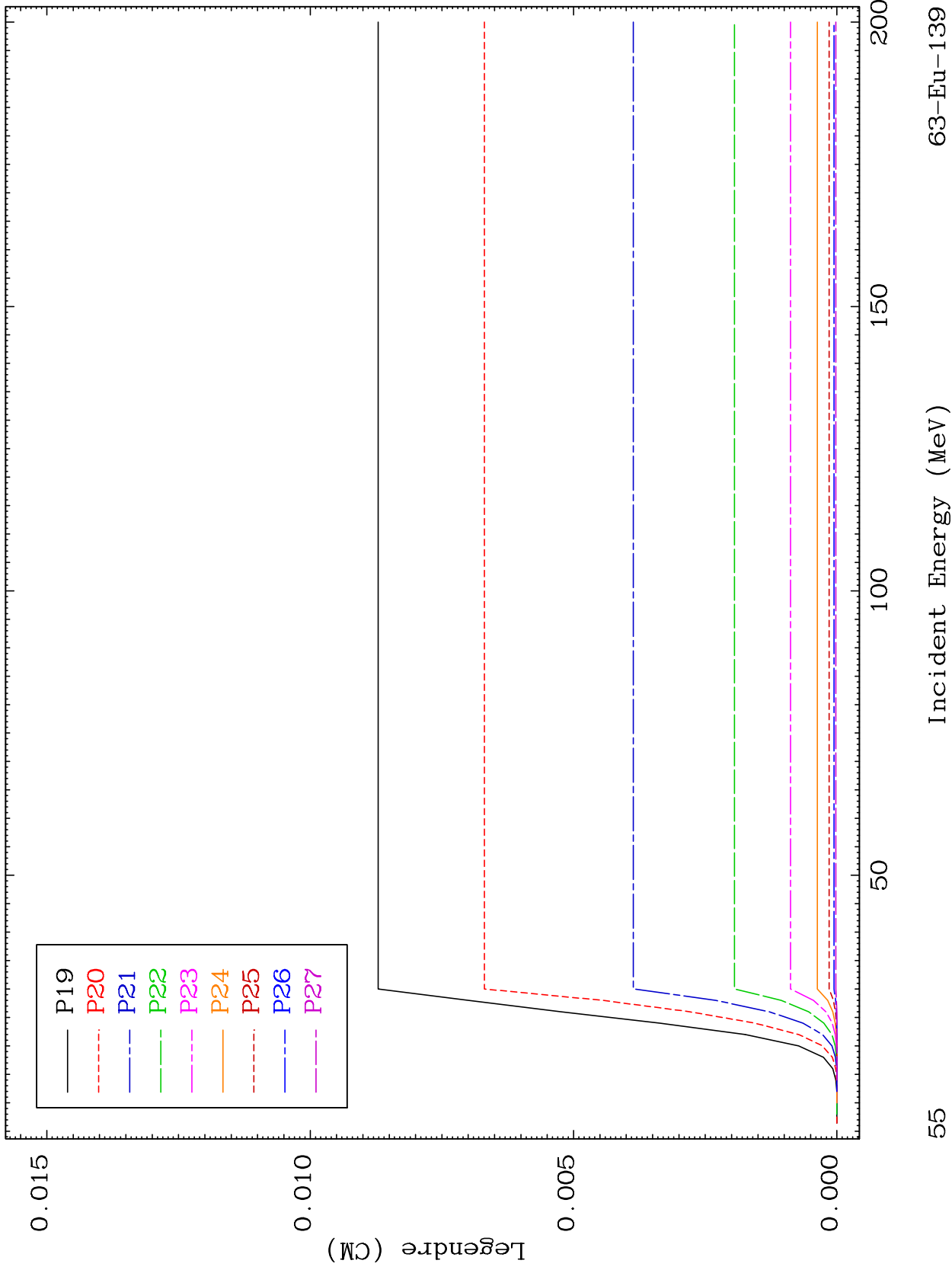
Incident Energy (MeV)

63-Eu-139

MAT 6289

471.8 keV (n,n') Level
Legendre Coefficients

63-Eu-139



55

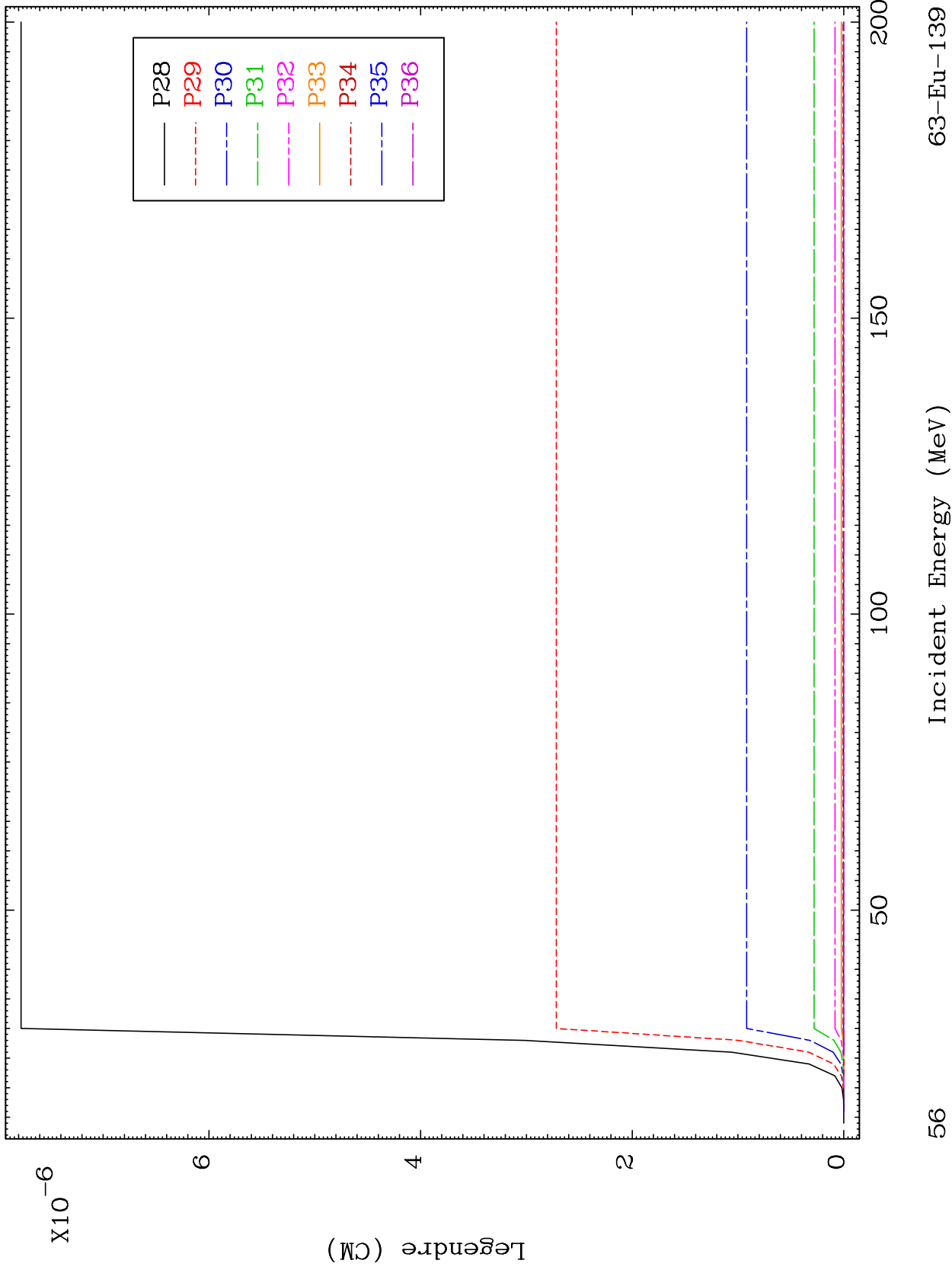
Incident Energy (MeV)

63-Eu-139

MAT 6289

471.8 keV (n,n') Level
Legendre Coefficients

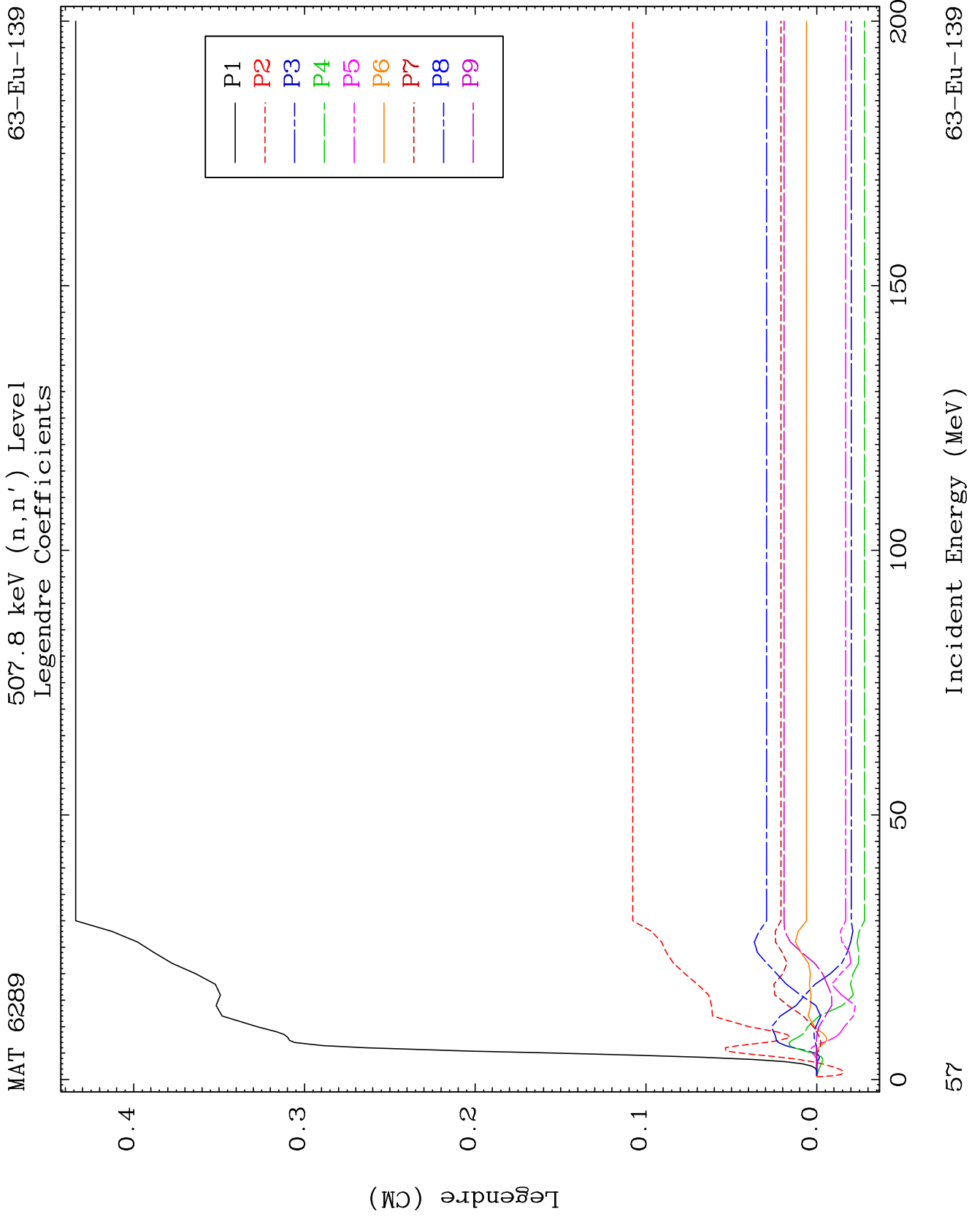
63-Eu-139

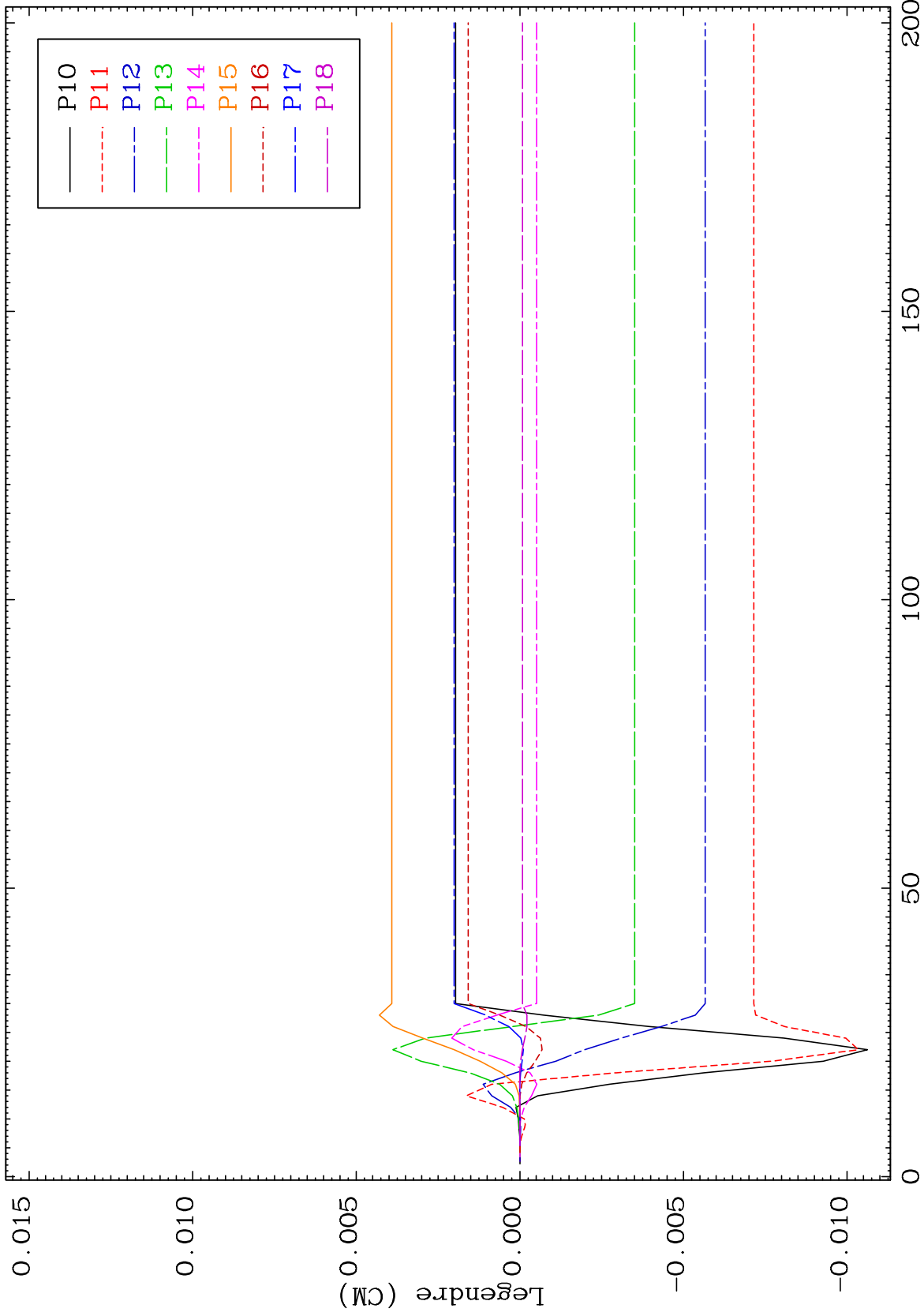


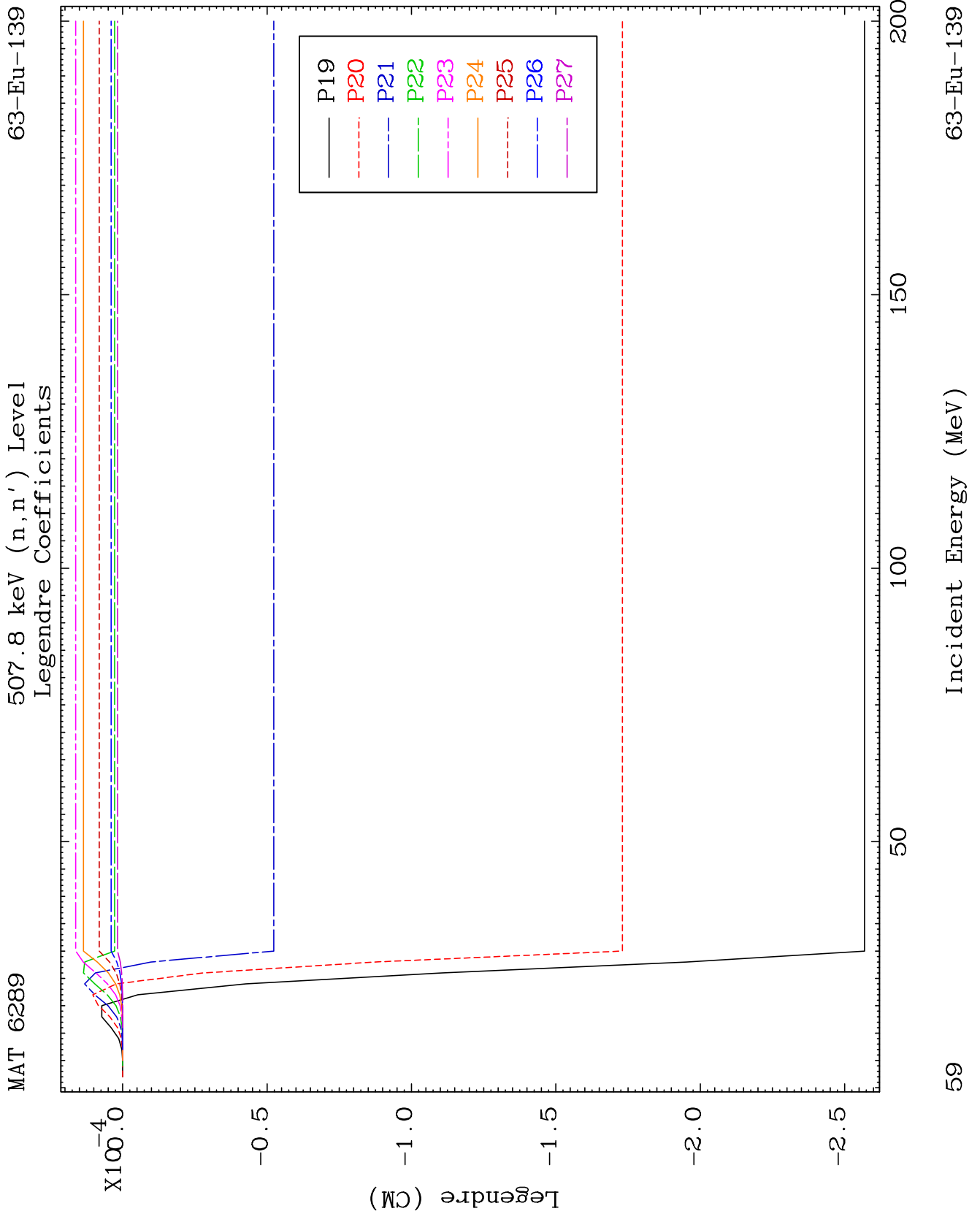
56

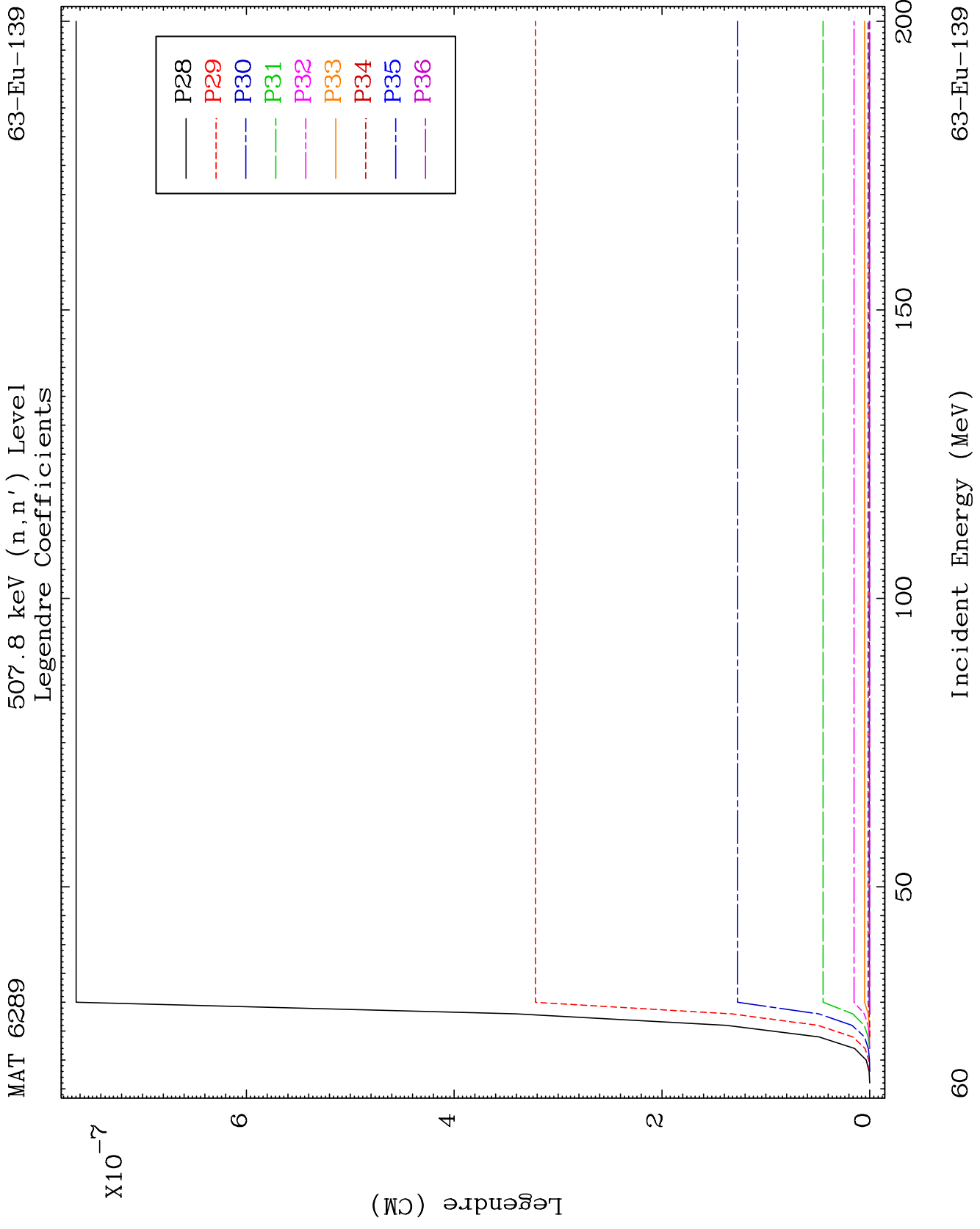
Incident Energy (MeV)

63-Eu-139





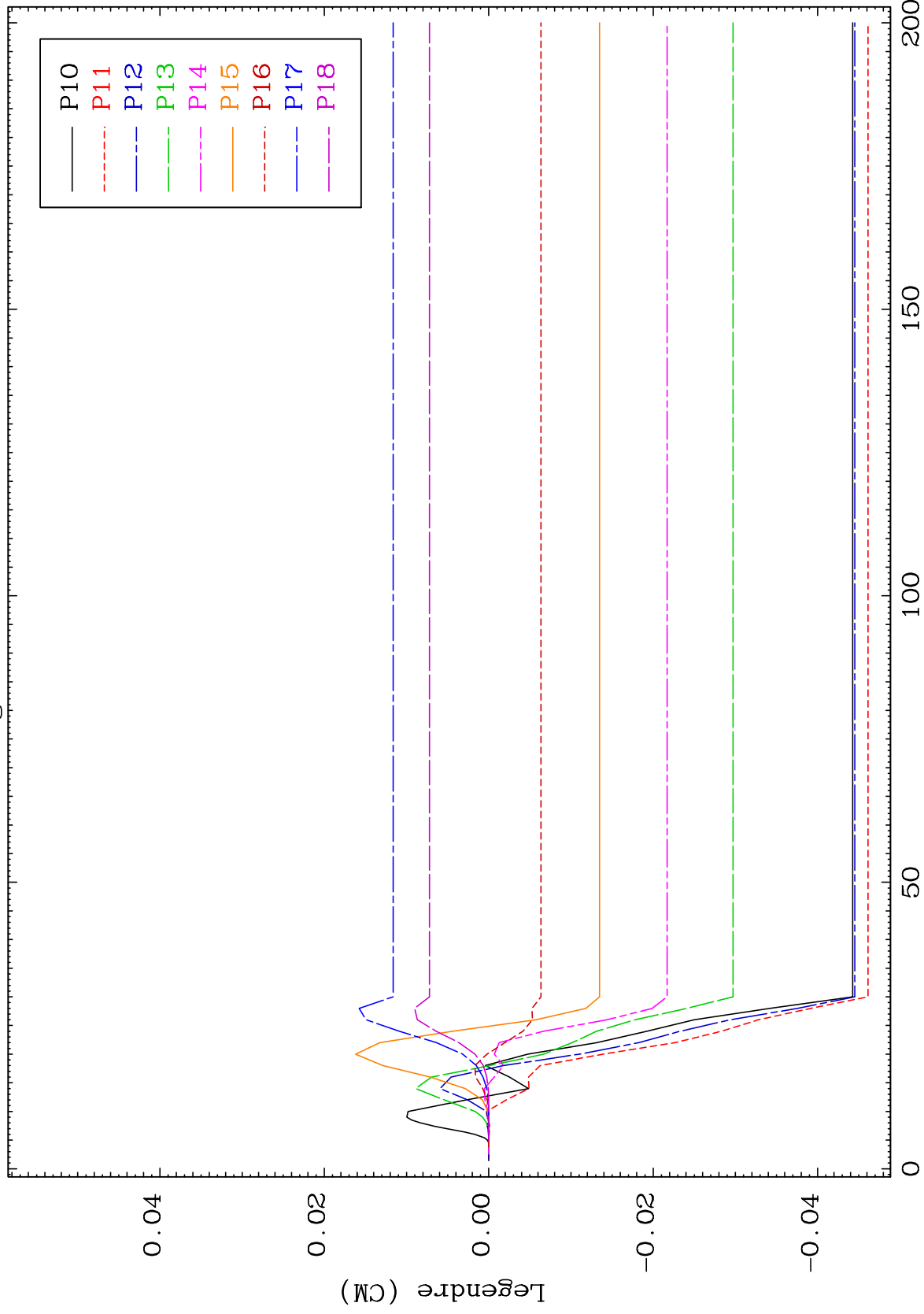




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530.3 keV (n,n') Level
Legendre Coefficients

63-Eu-139



62

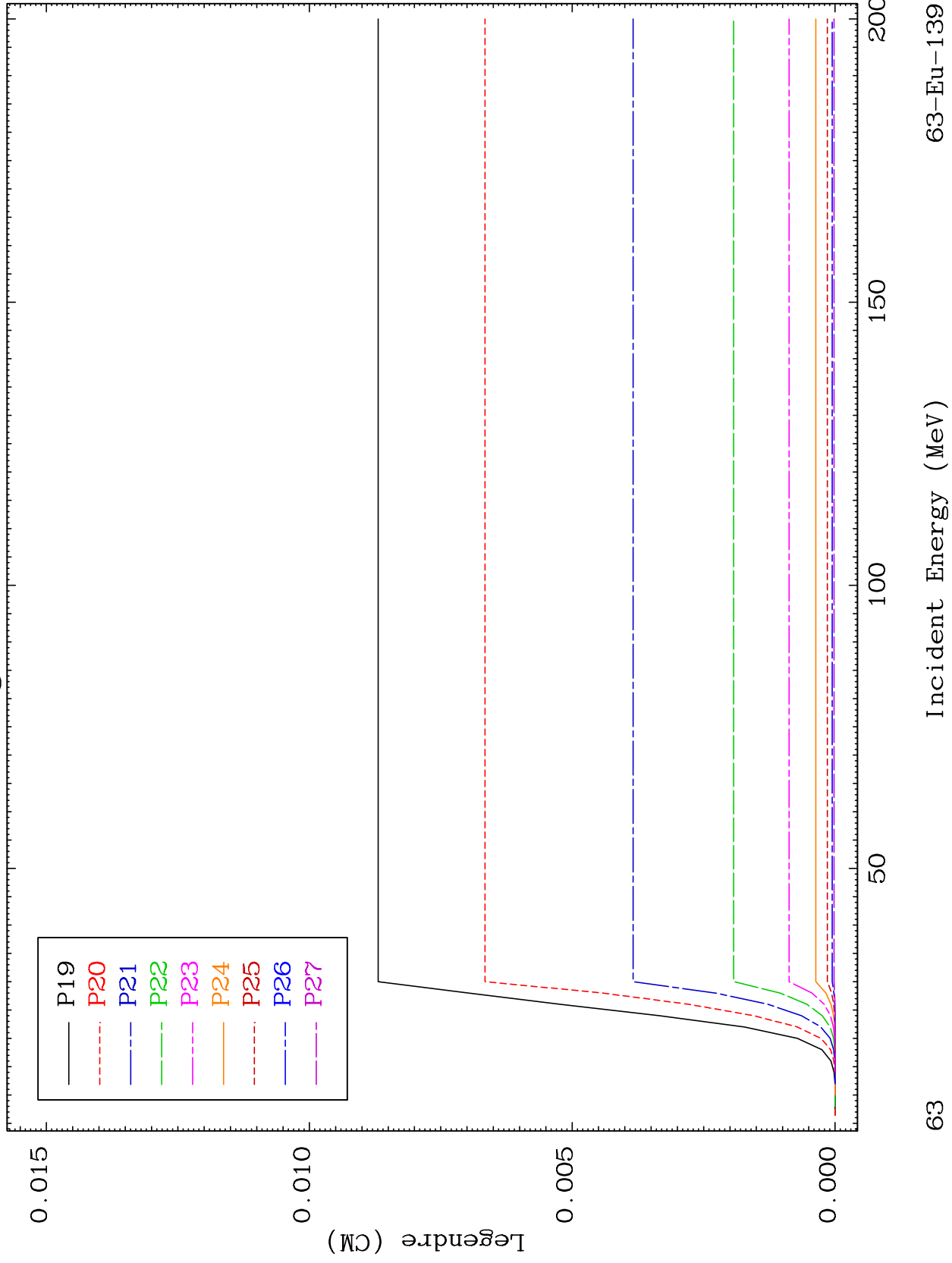
Incident Energy (MeV)

63-Eu-139

MAT 6289

530.3 keV (n,n') Level
Legendre Coefficients

63-Eu-139



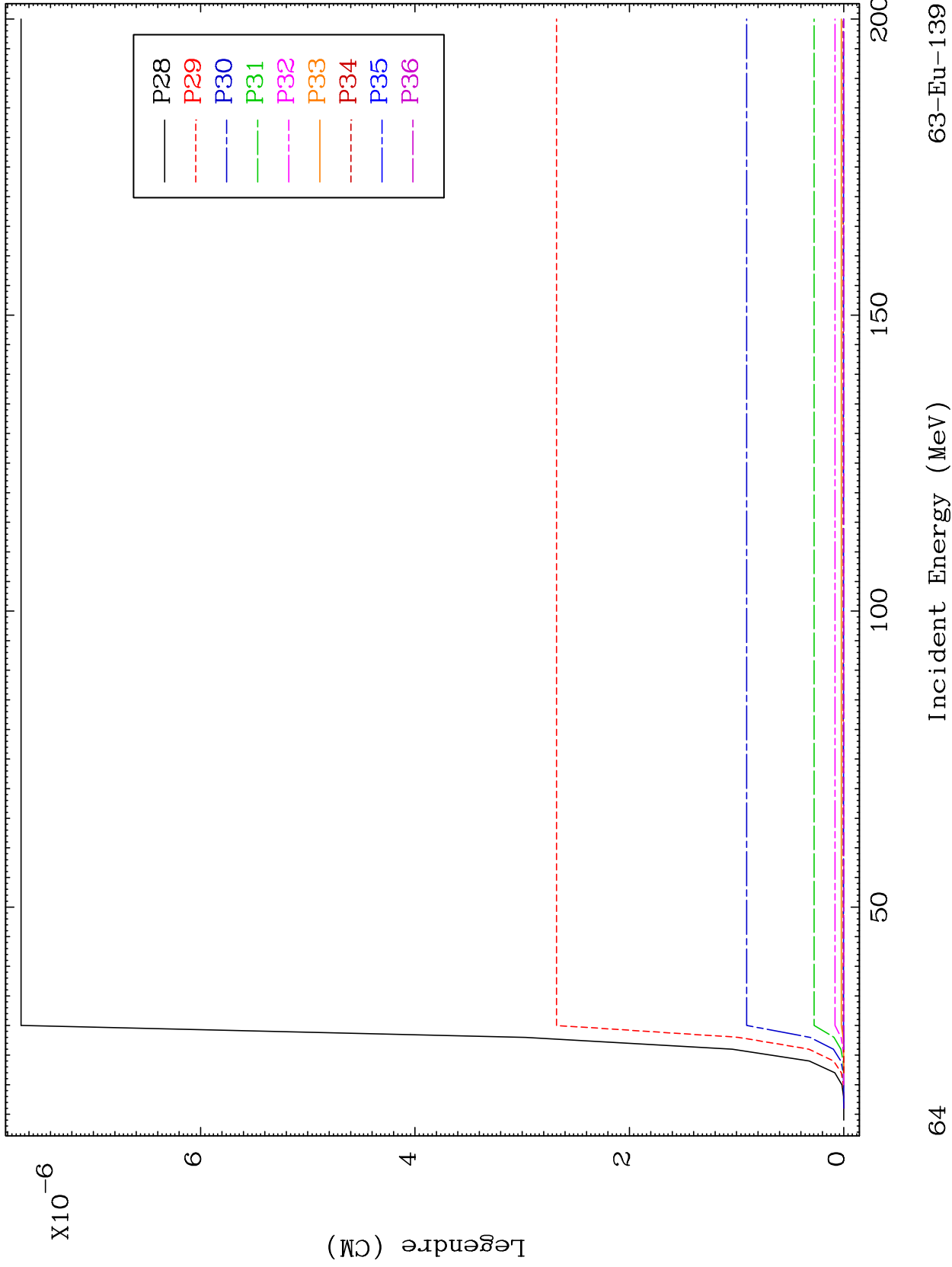
63

63-Eu-139

MAT 6289

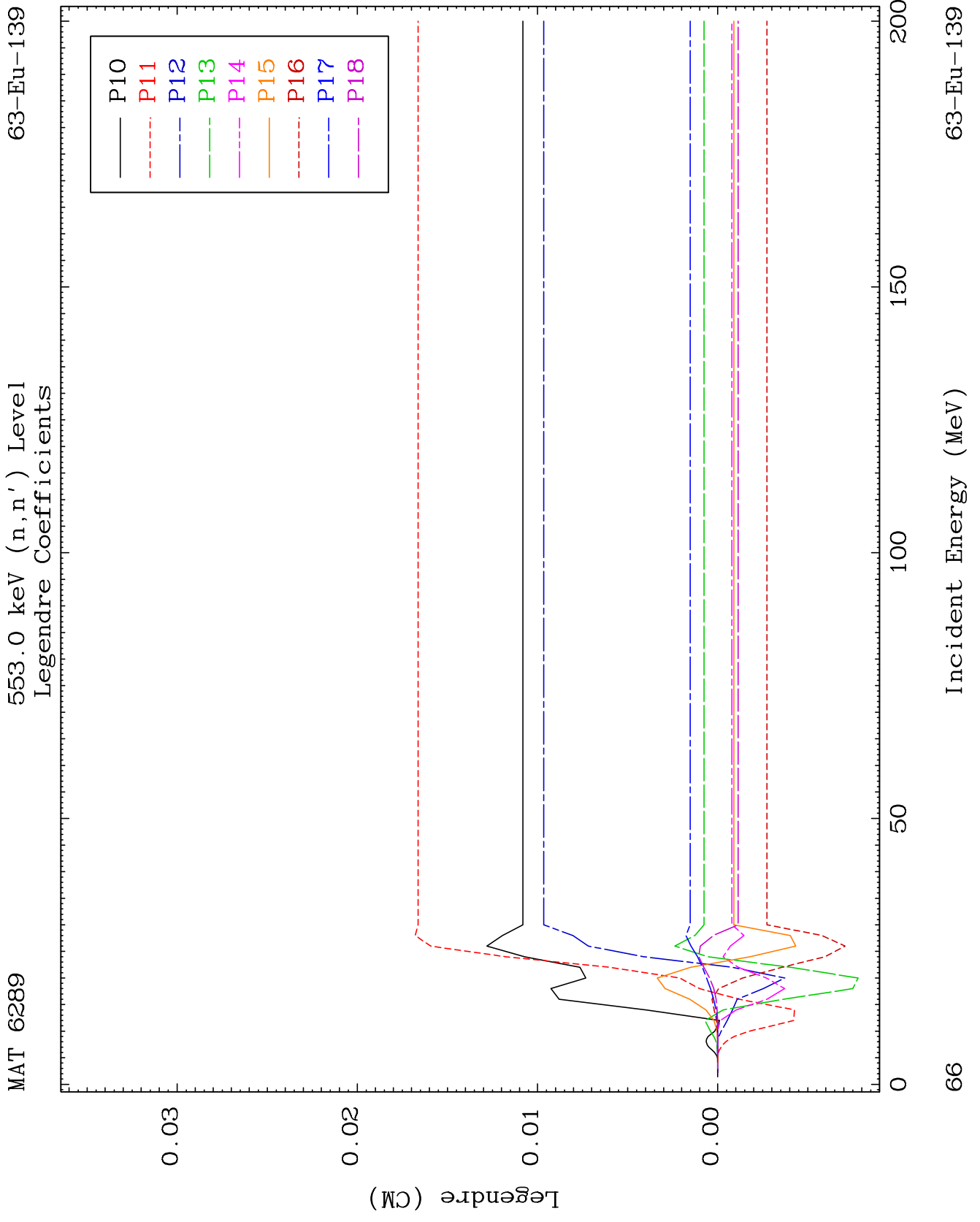
530.3 keV (n, n') Level
Legendre Coefficients

63-Eu-139



64

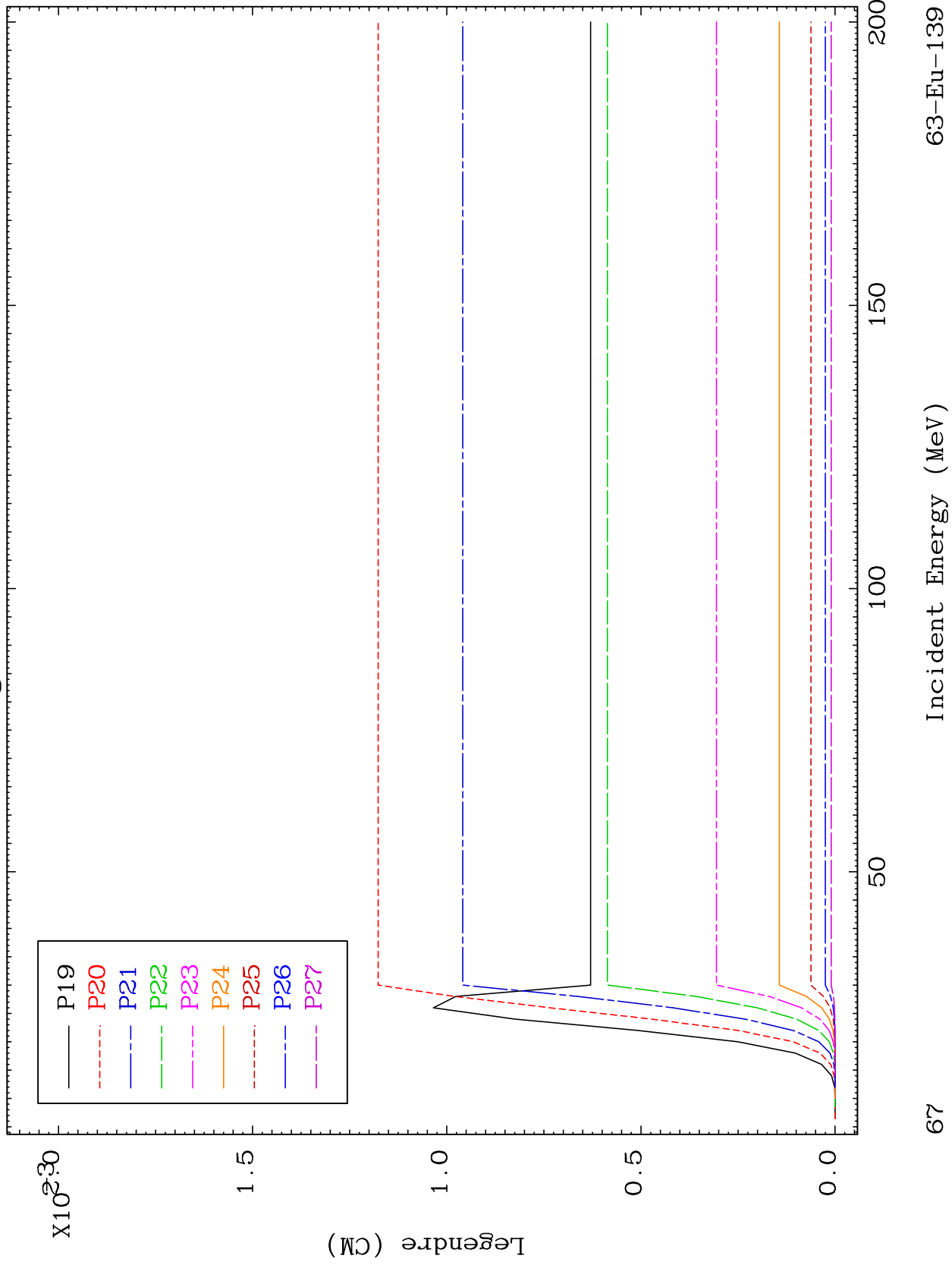
63-Eu-139



MAT 6289

553.0 keV (n, n') Level
Legendre Coefficients

63-Eu-139

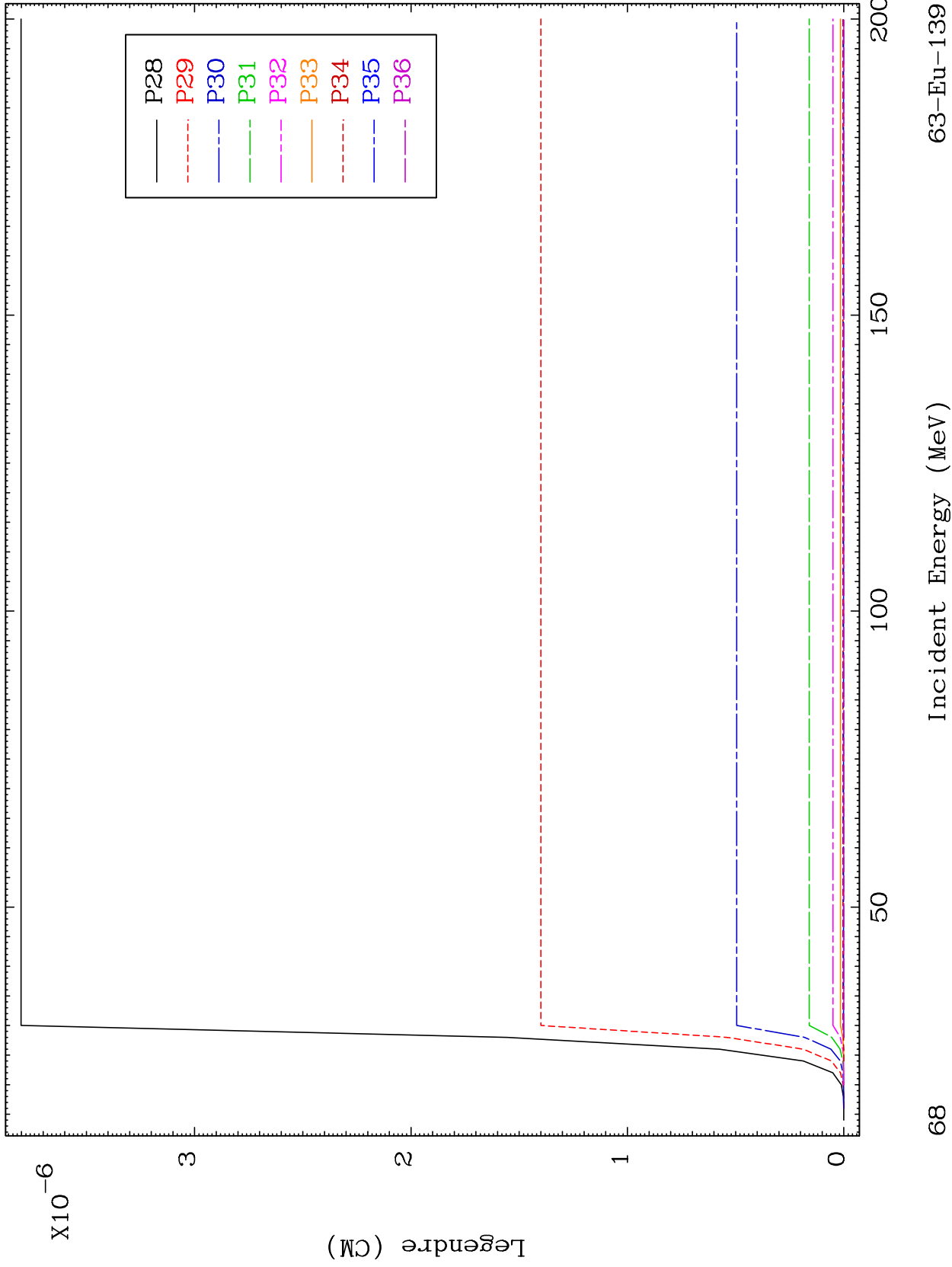


67

MAT 6289

553.0 keV (n,n') Level
Legendre Coefficients

63-Eu-139



68

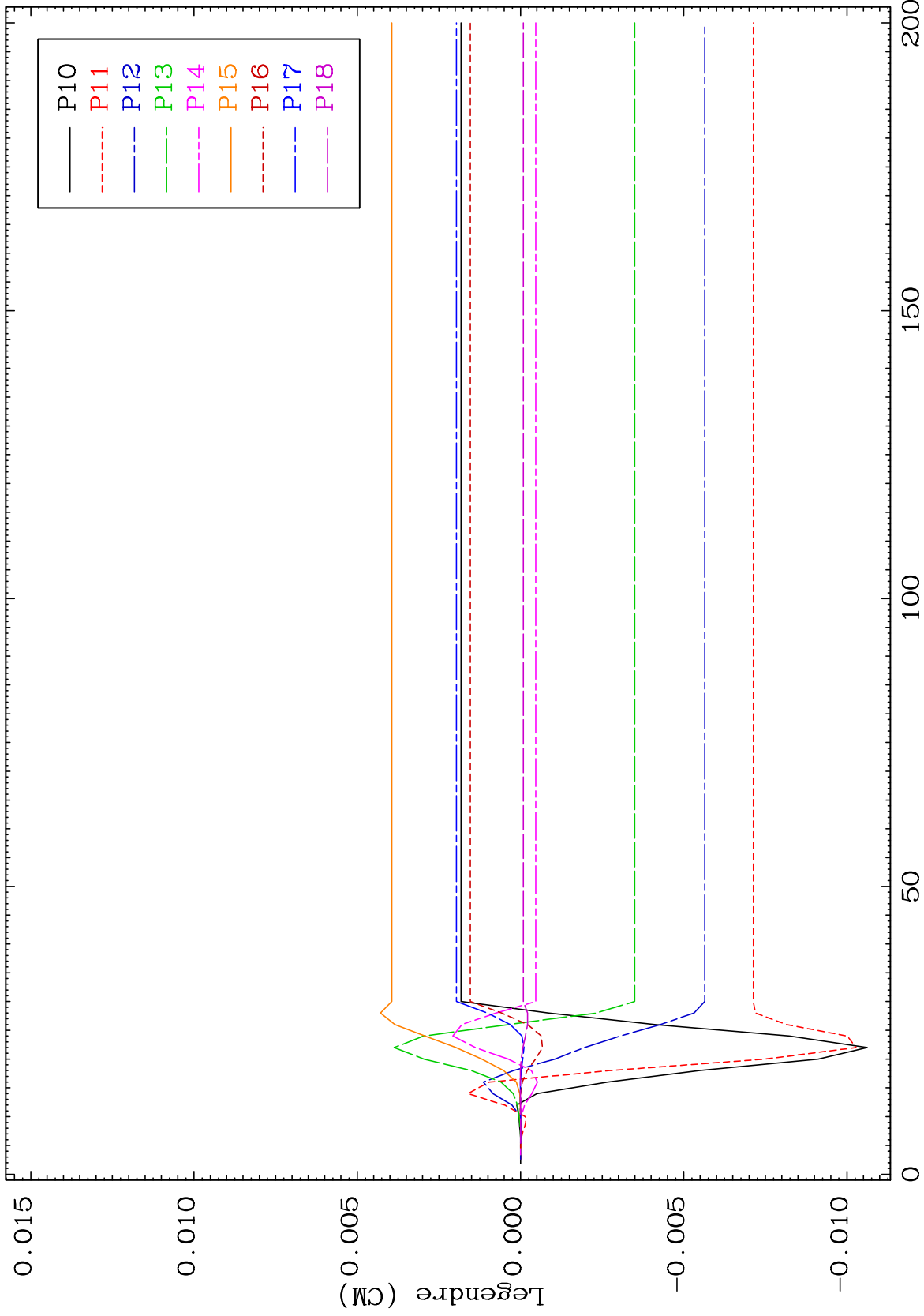
Incident Energy (MeV)

63-Eu-139

MAT 6289

664.1 keV (n,n') Level
Legendre Coefficients

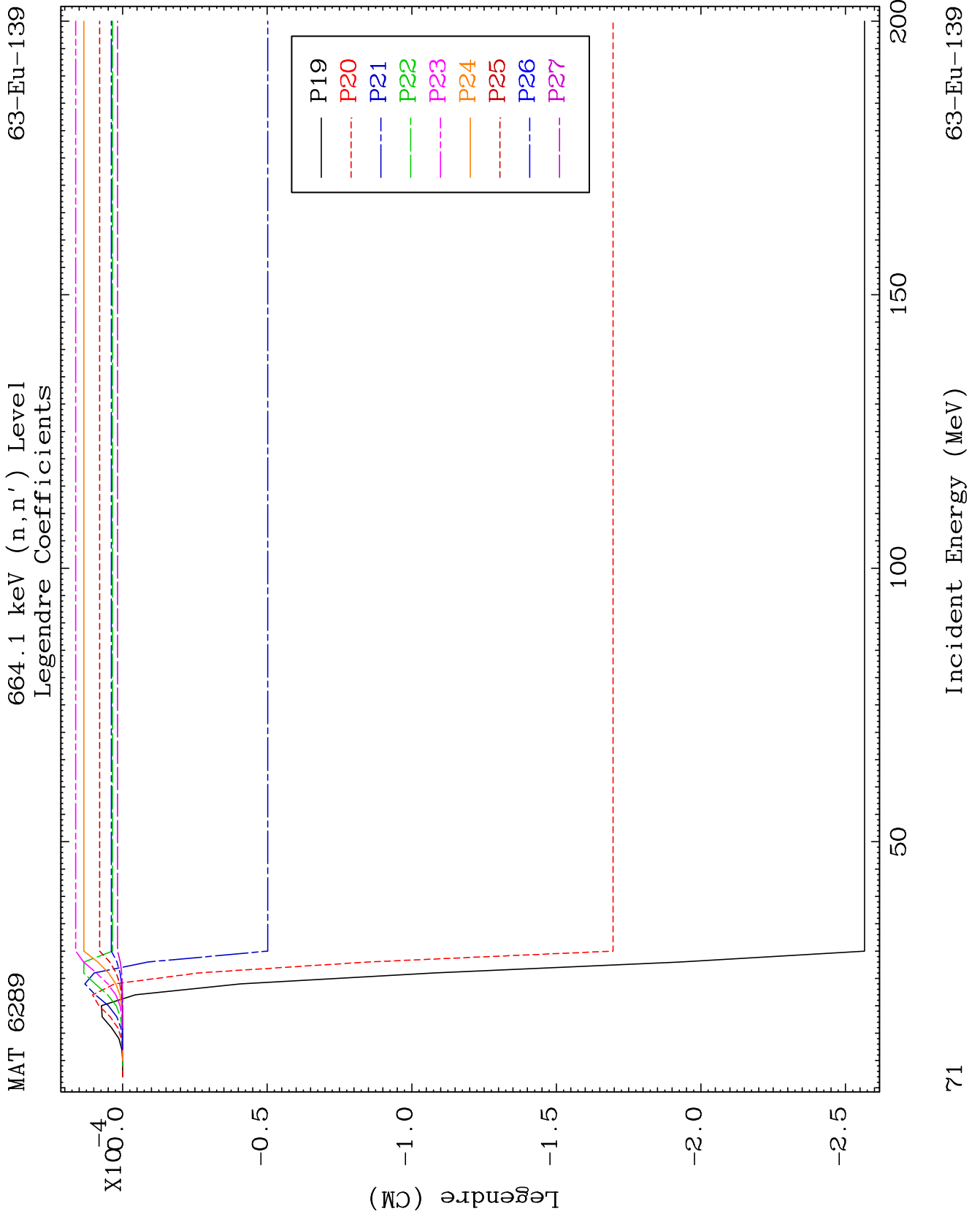
63-Eu-139



70

Incident Energy (MeV)

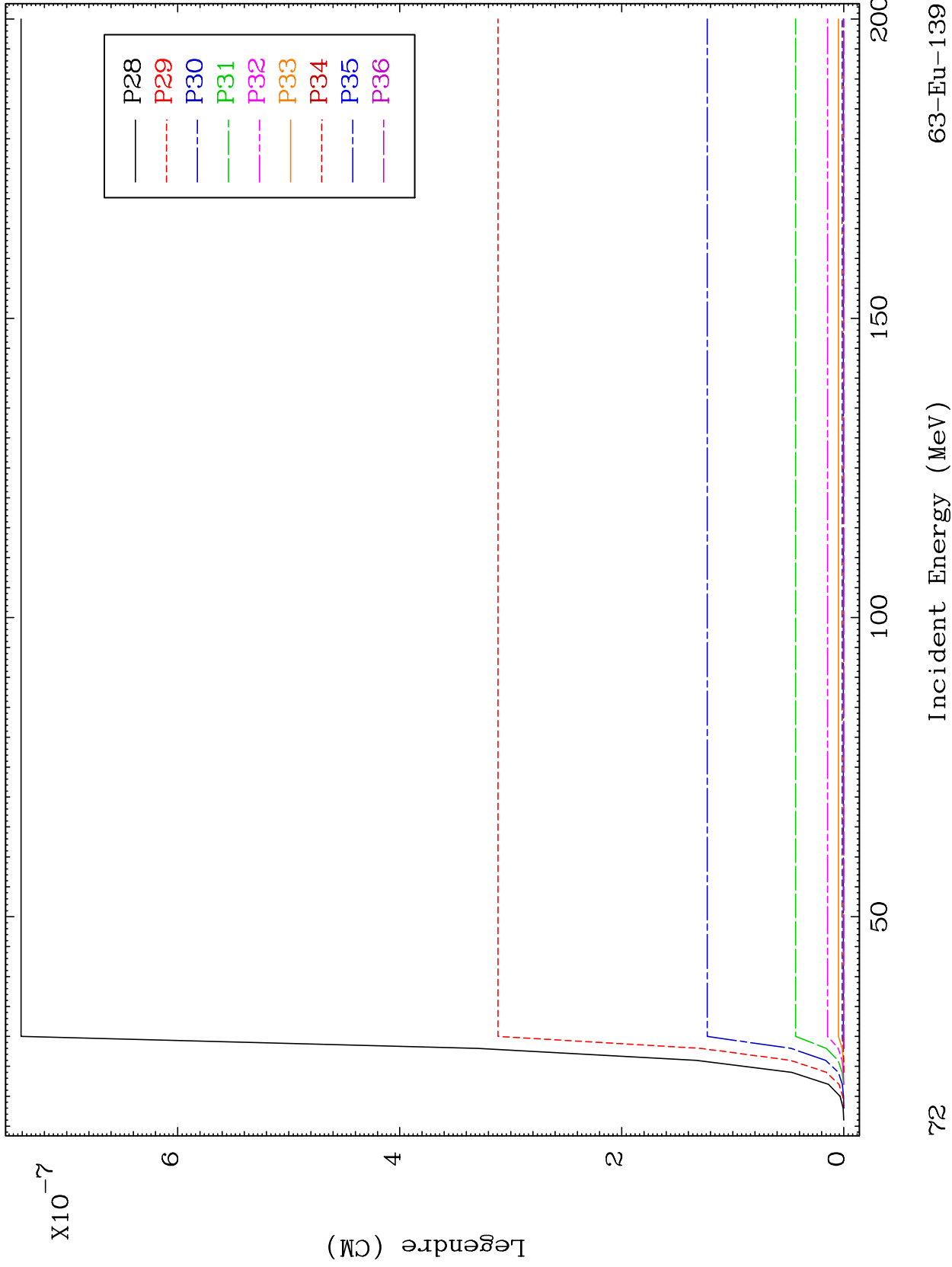
63-Eu-139

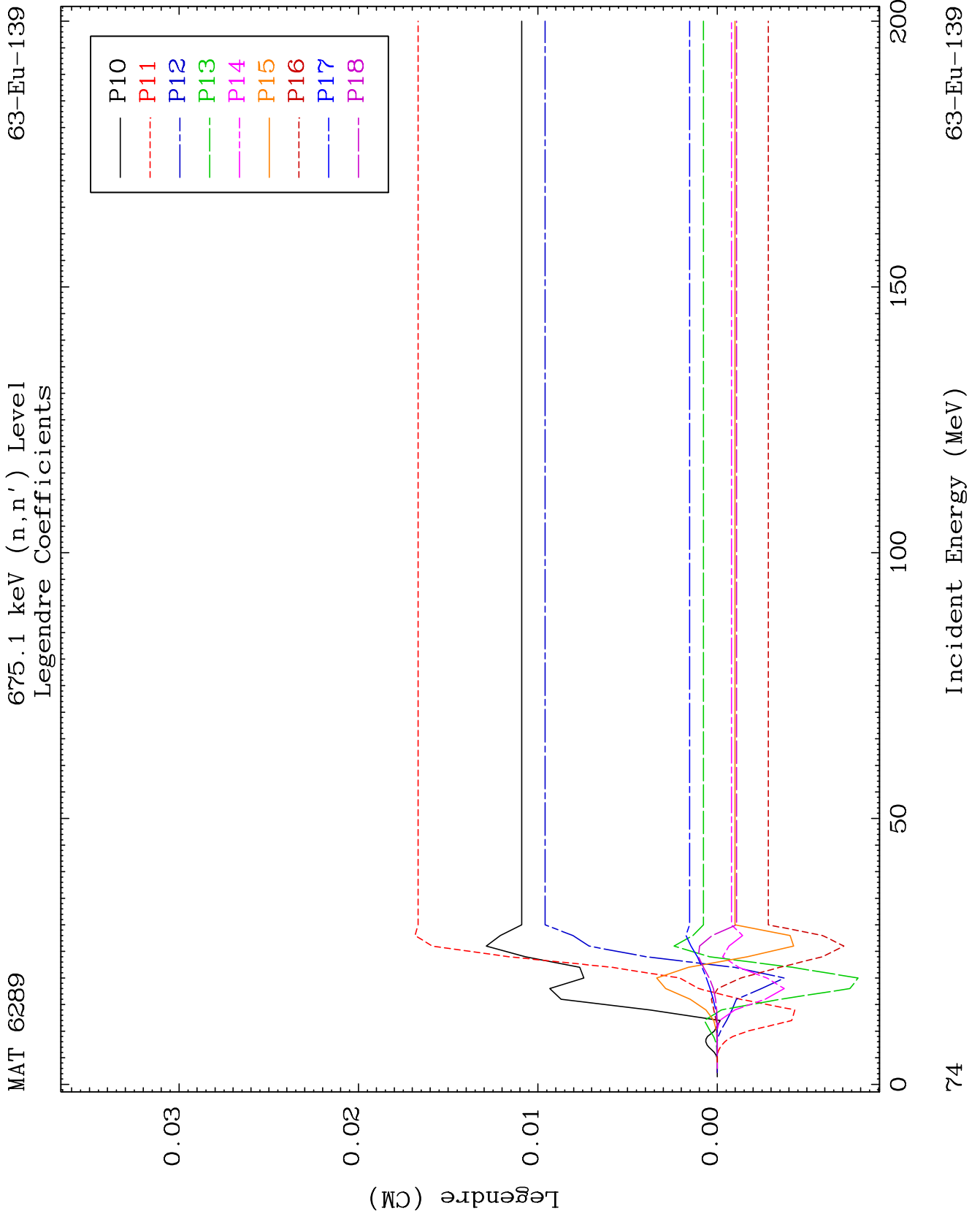


MAT 6289

664.1 keV (n,n') Level
Legendre Coefficients

63-Eu-139

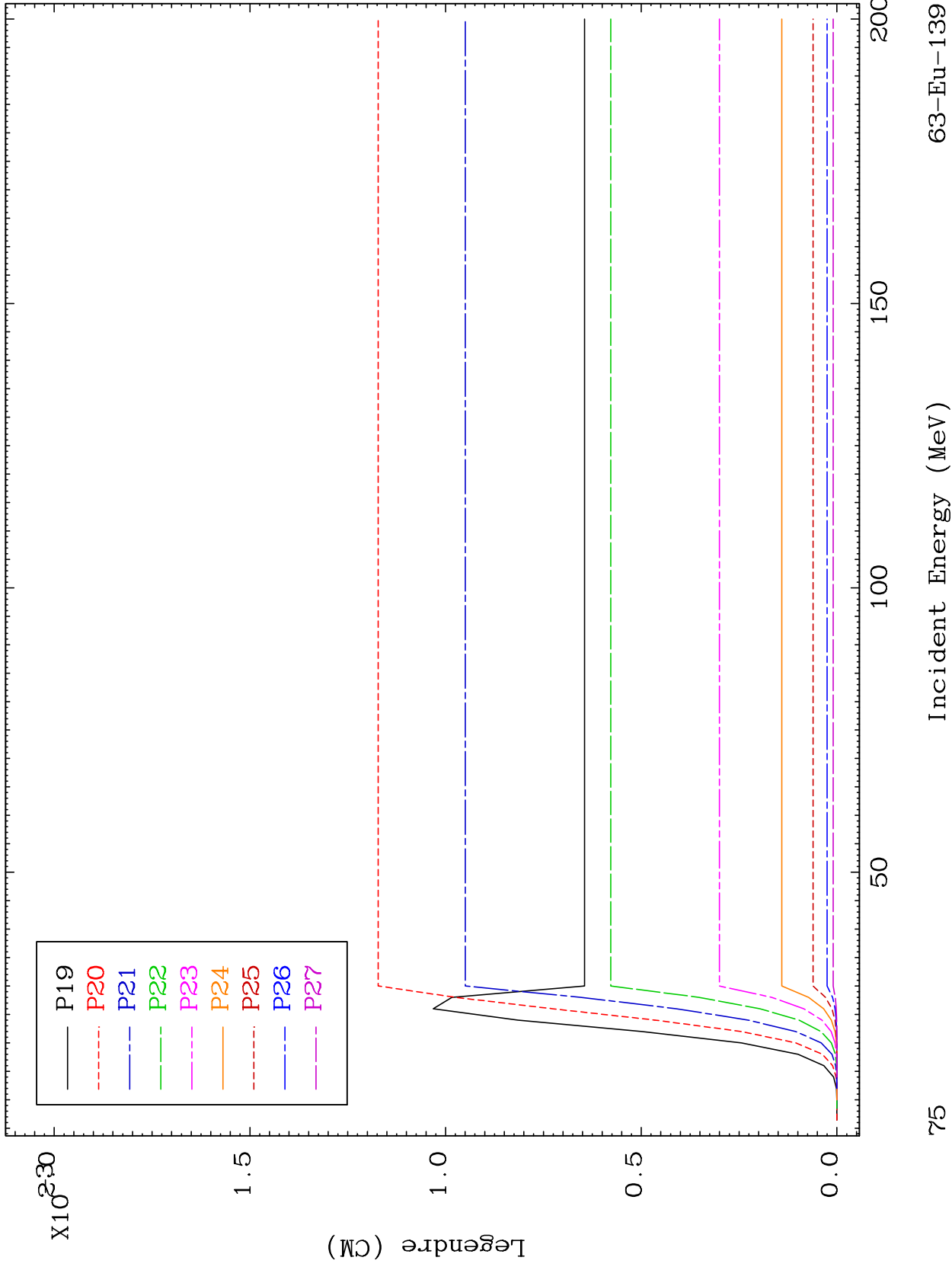




MAT 6289

675.1 keV (n,n') Level
Legendre Coefficients

63-Eu-139



75

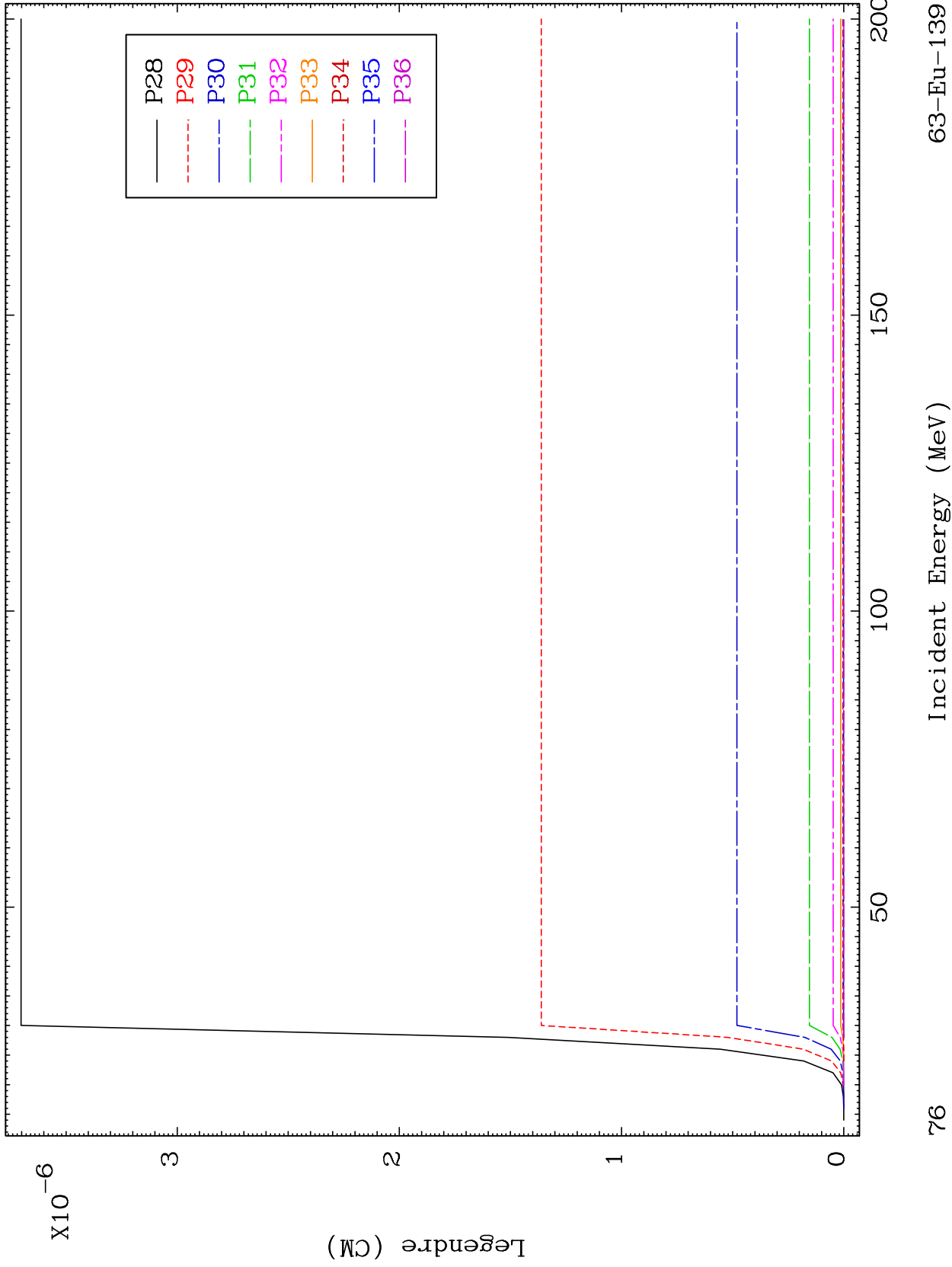
Incident Energy (MeV)

63-Eu-139

MAT 6289

675.1 keV (n,n') Level
Legendre Coefficients

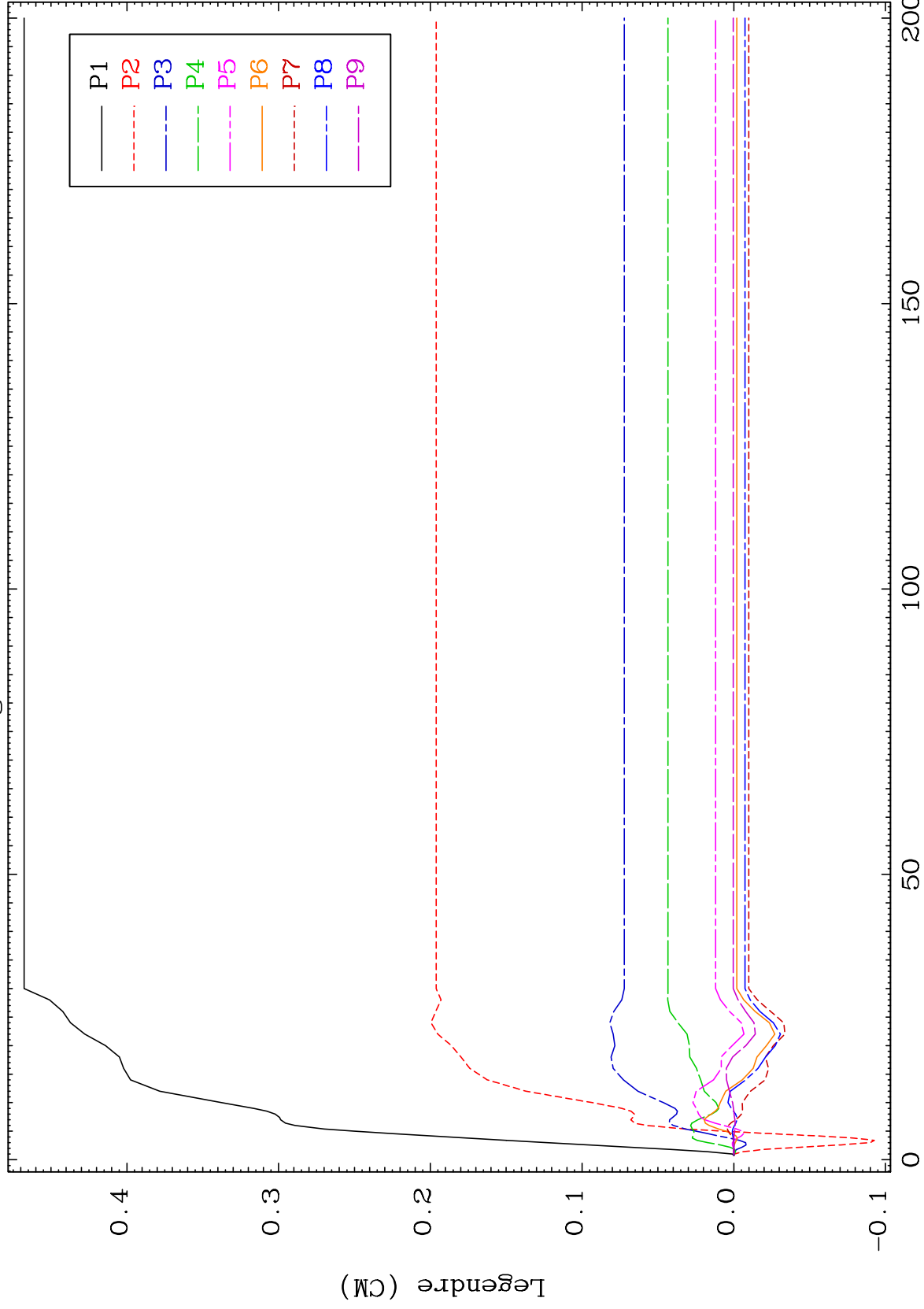
63-Eu-139



MAT 6289

693.9 keV (n,n') Level
Legendre Coefficients

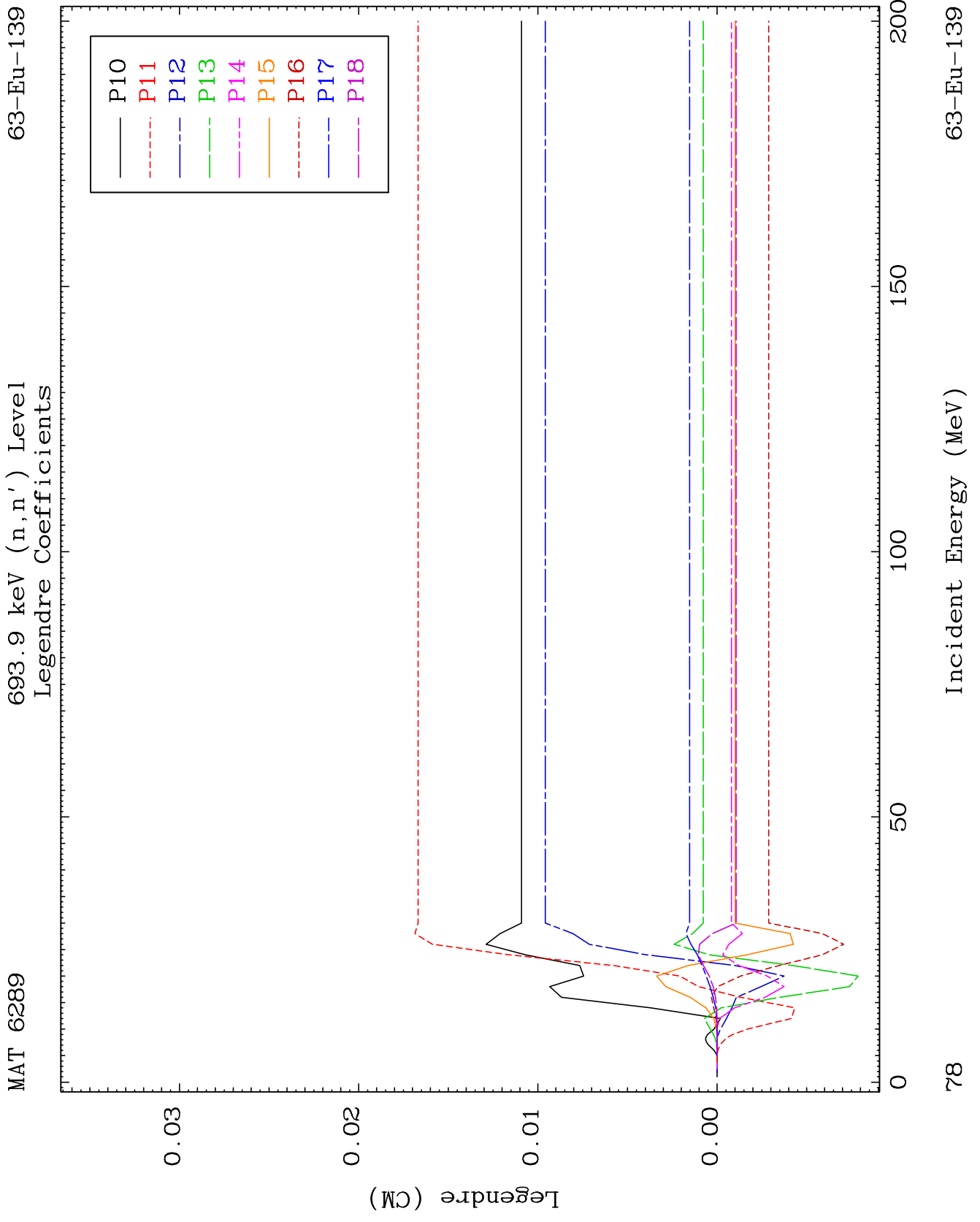
63-Eu-139



77

Incident Energy (MeV)

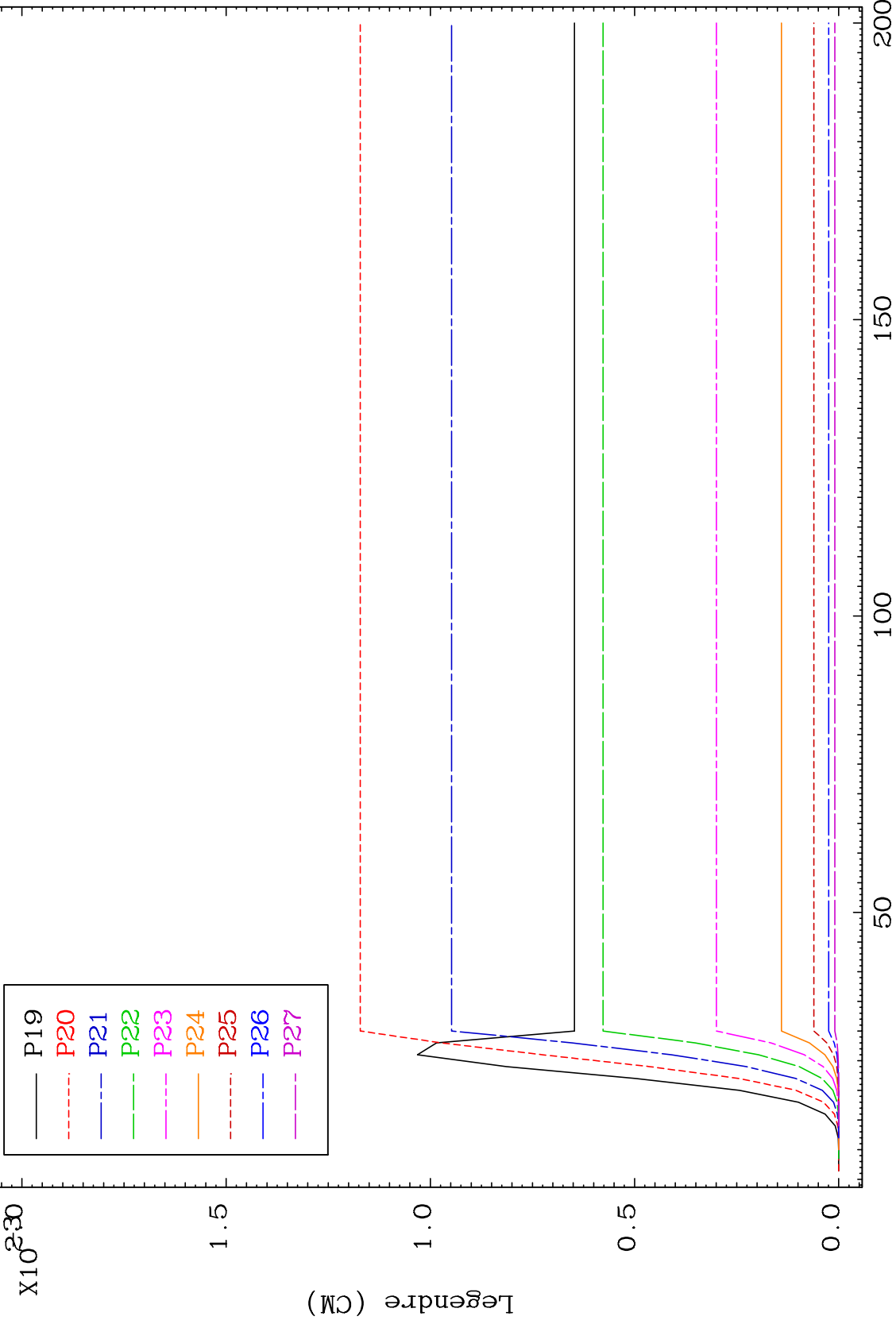
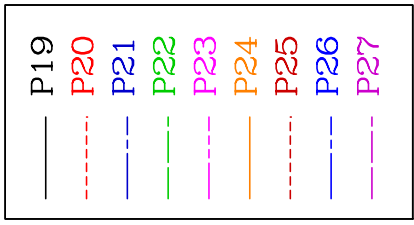
63-Eu-139



MAT 6289

693.9 keV (n, n') Level
Legendre Coefficients

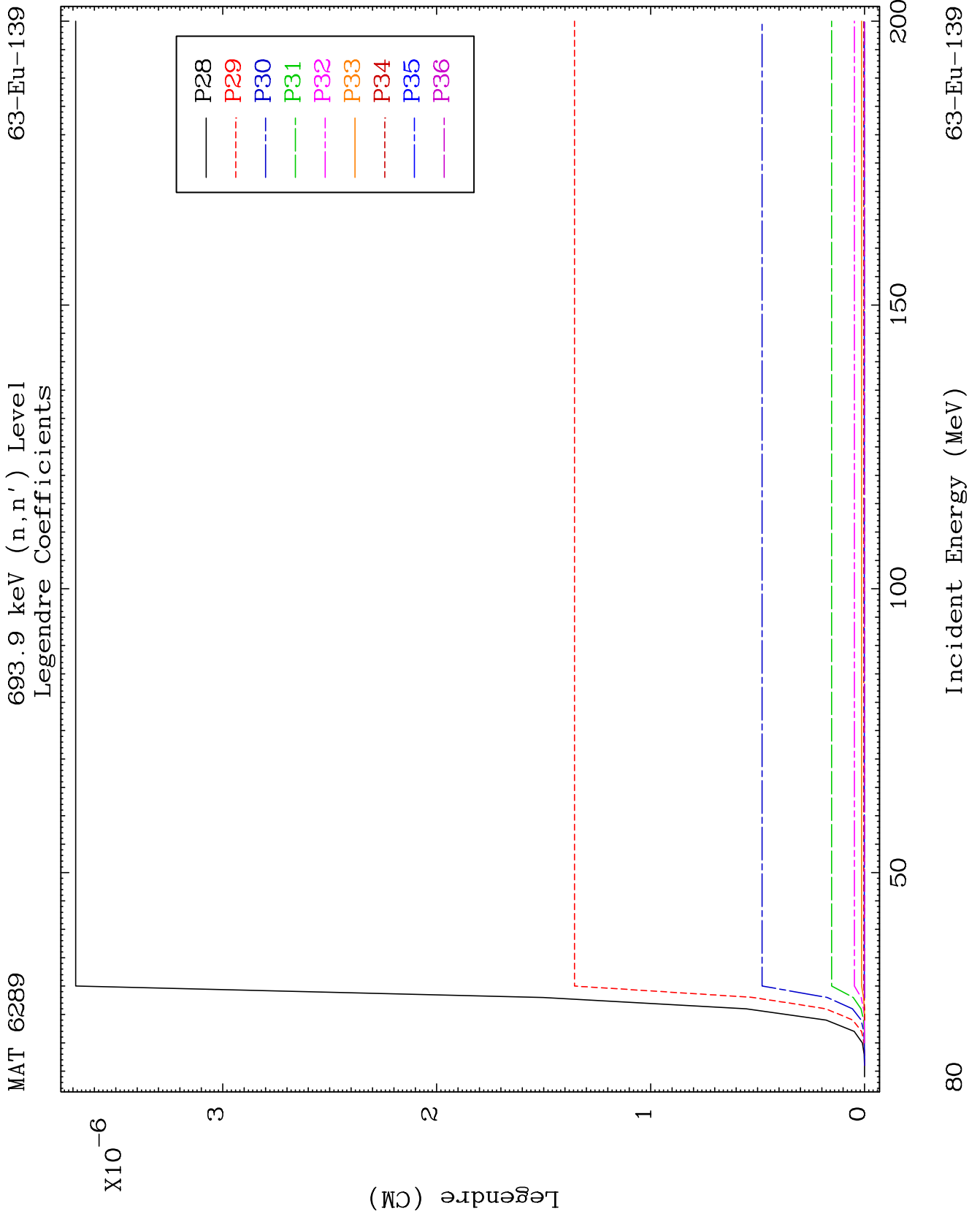
63-Eu-139

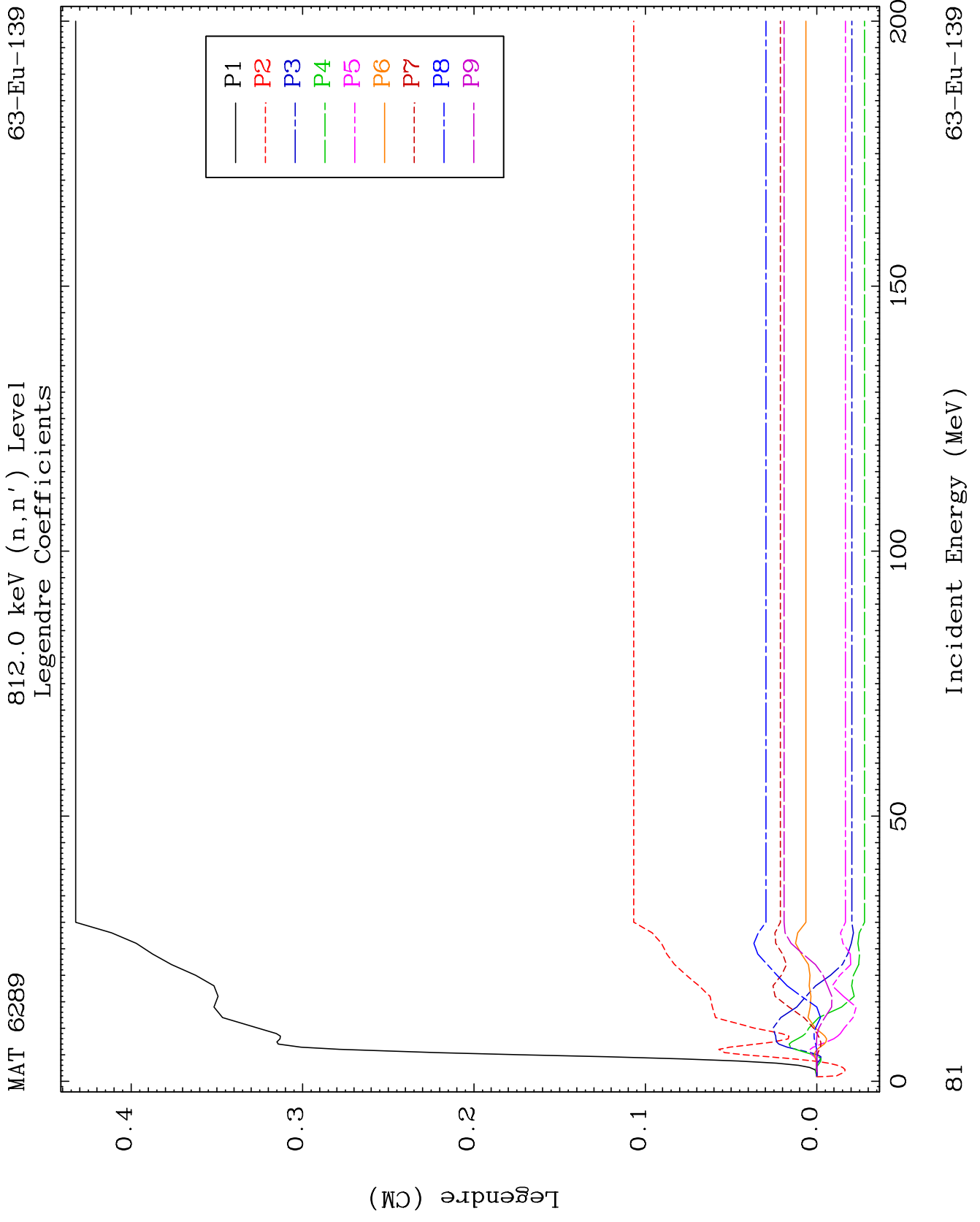


79

Incident Energy (MeV)

63-Eu-139

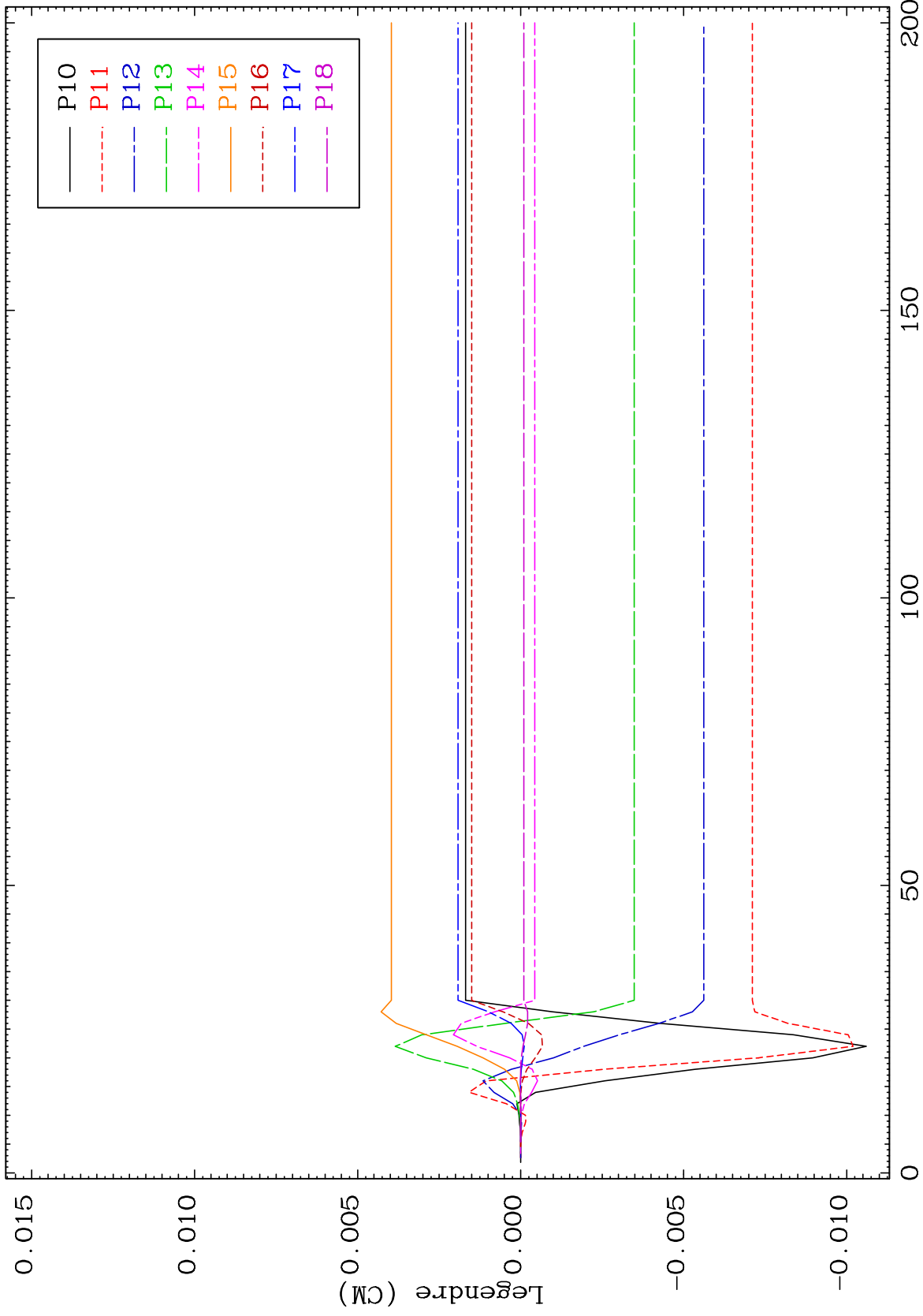




MAT 6289

812.0 keV (n,n') Level
Legendre Coefficients

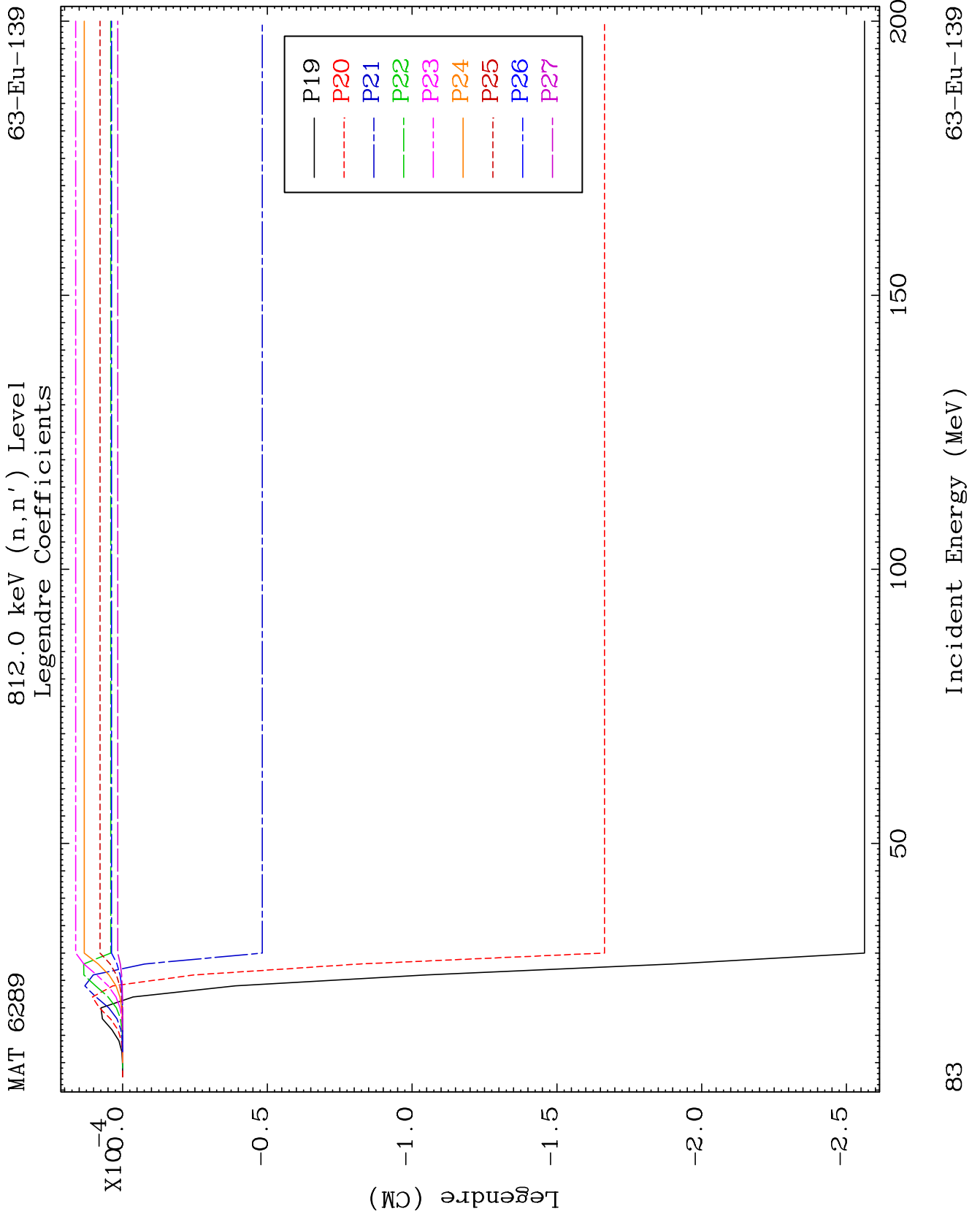
63-Eu-139

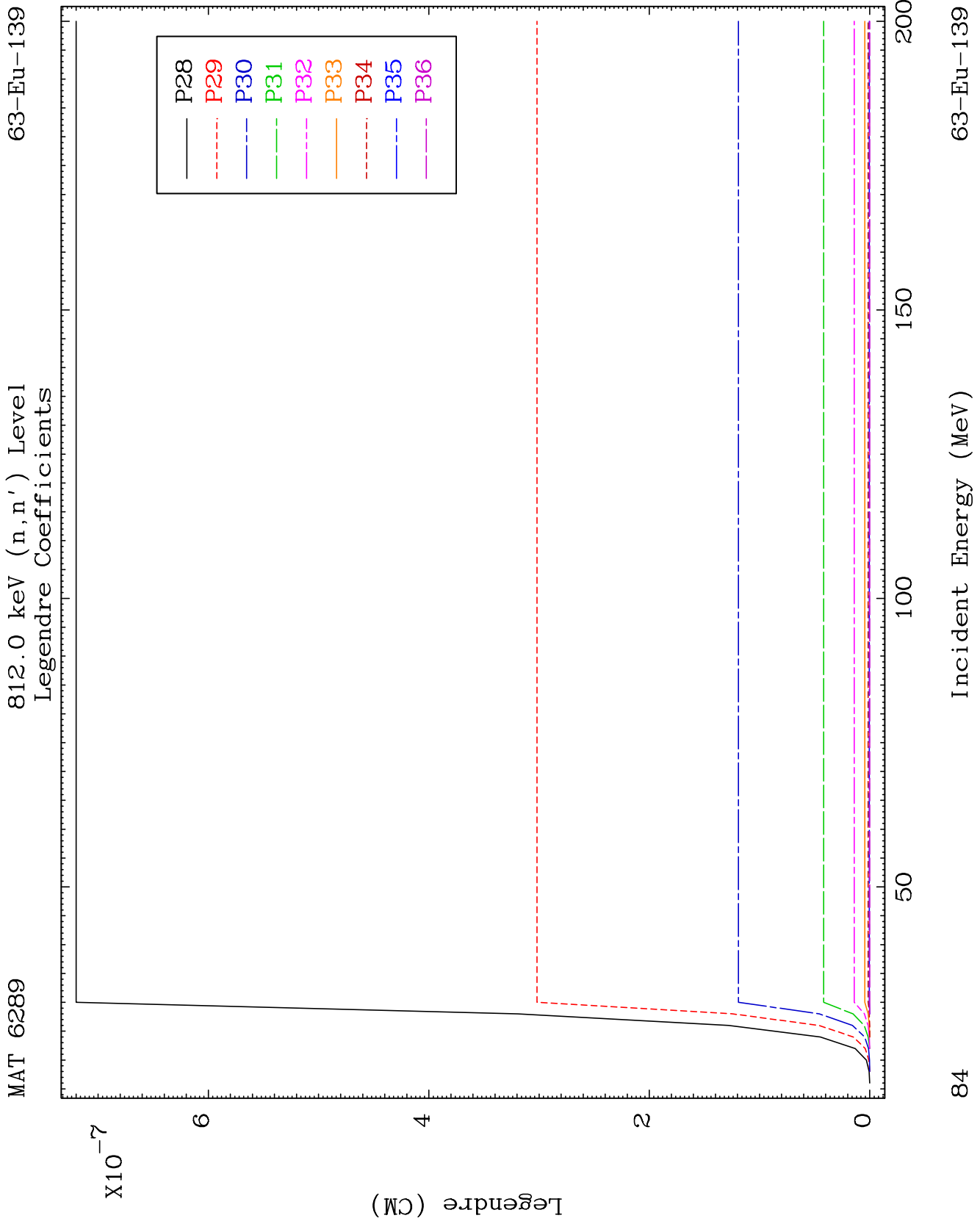


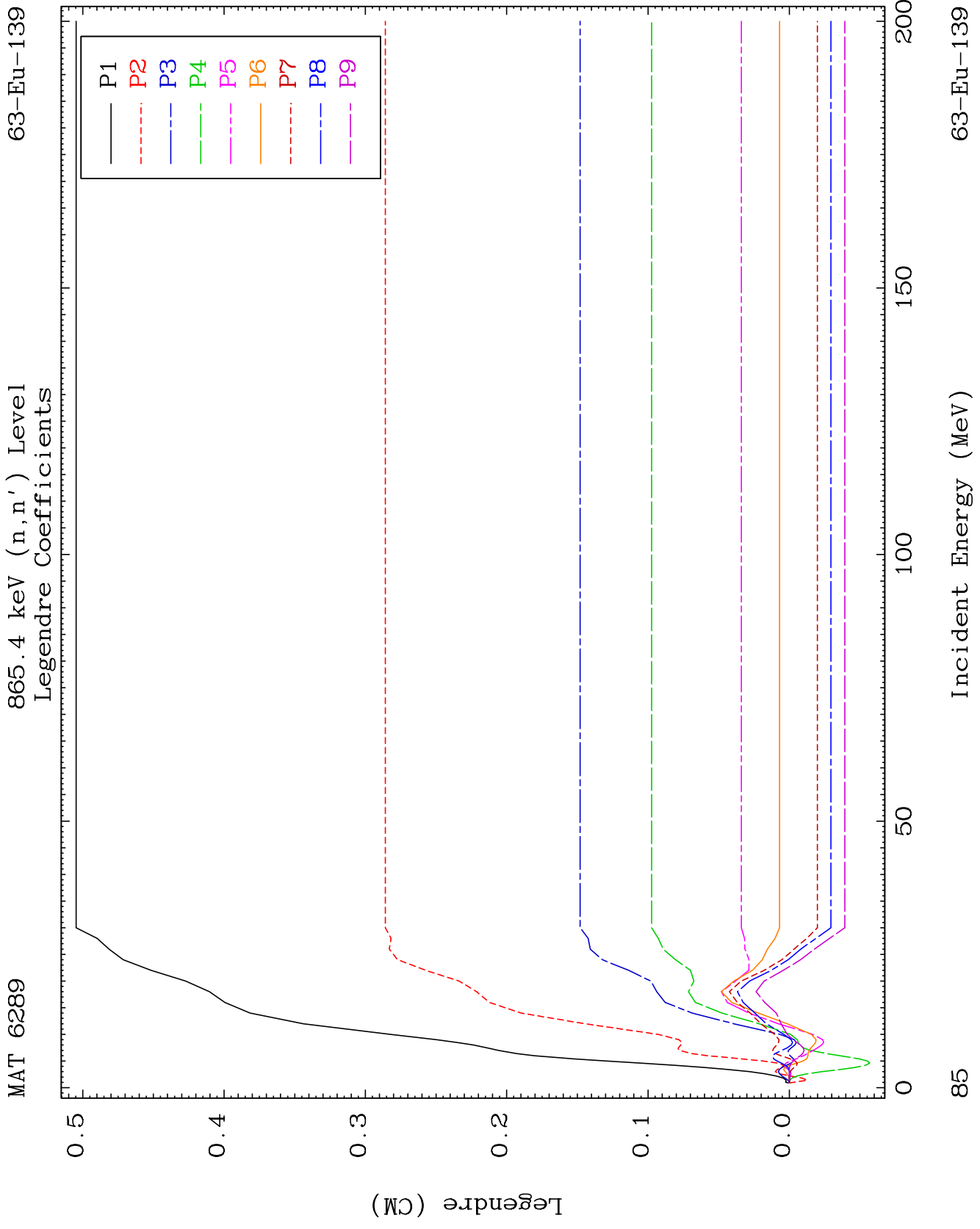
82

Incident Energy (MeV)

63-Eu-139



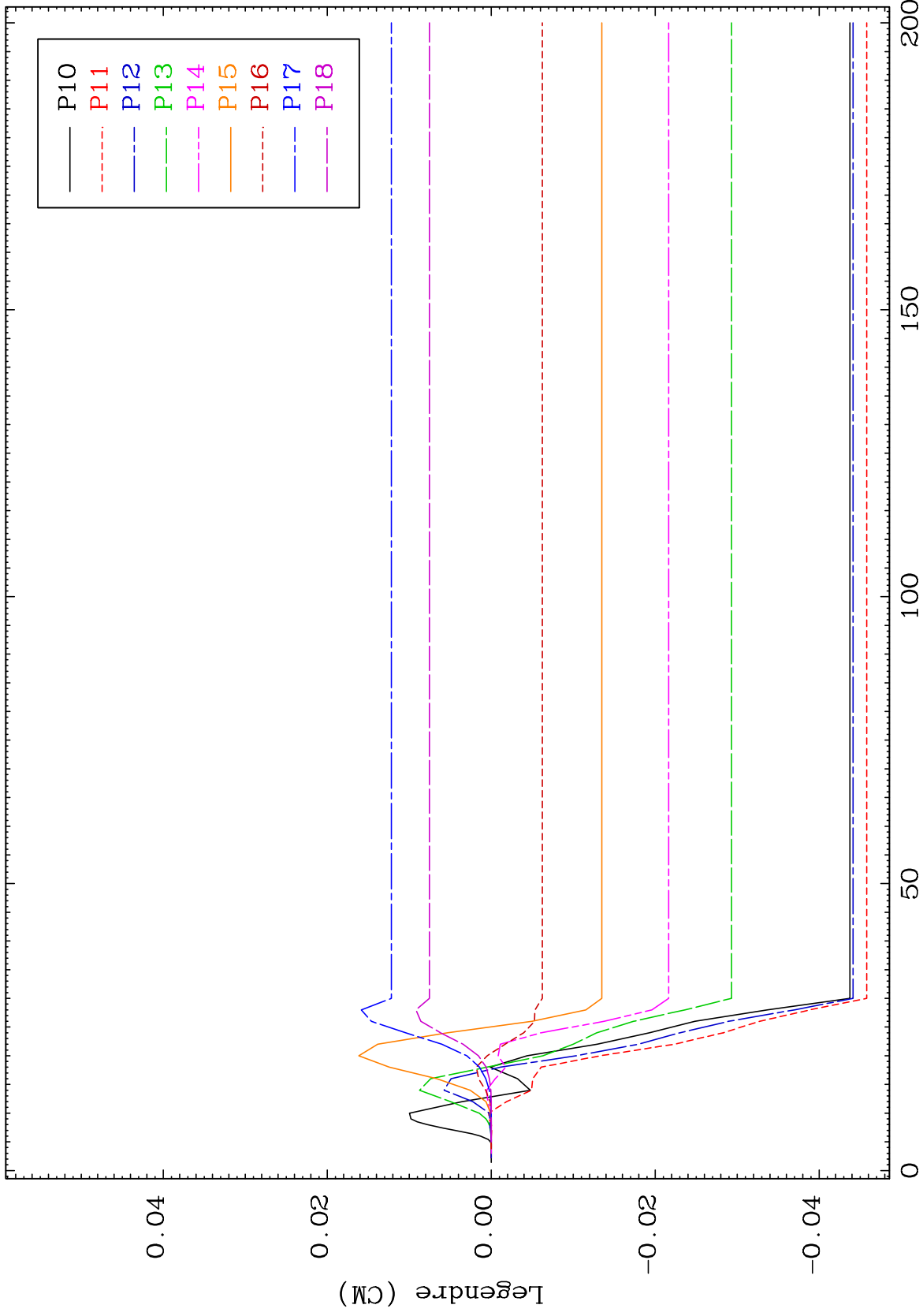




MAT 6289

865.4 keV (n,n') Level
Legendre Coefficients

63-Eu-139



86

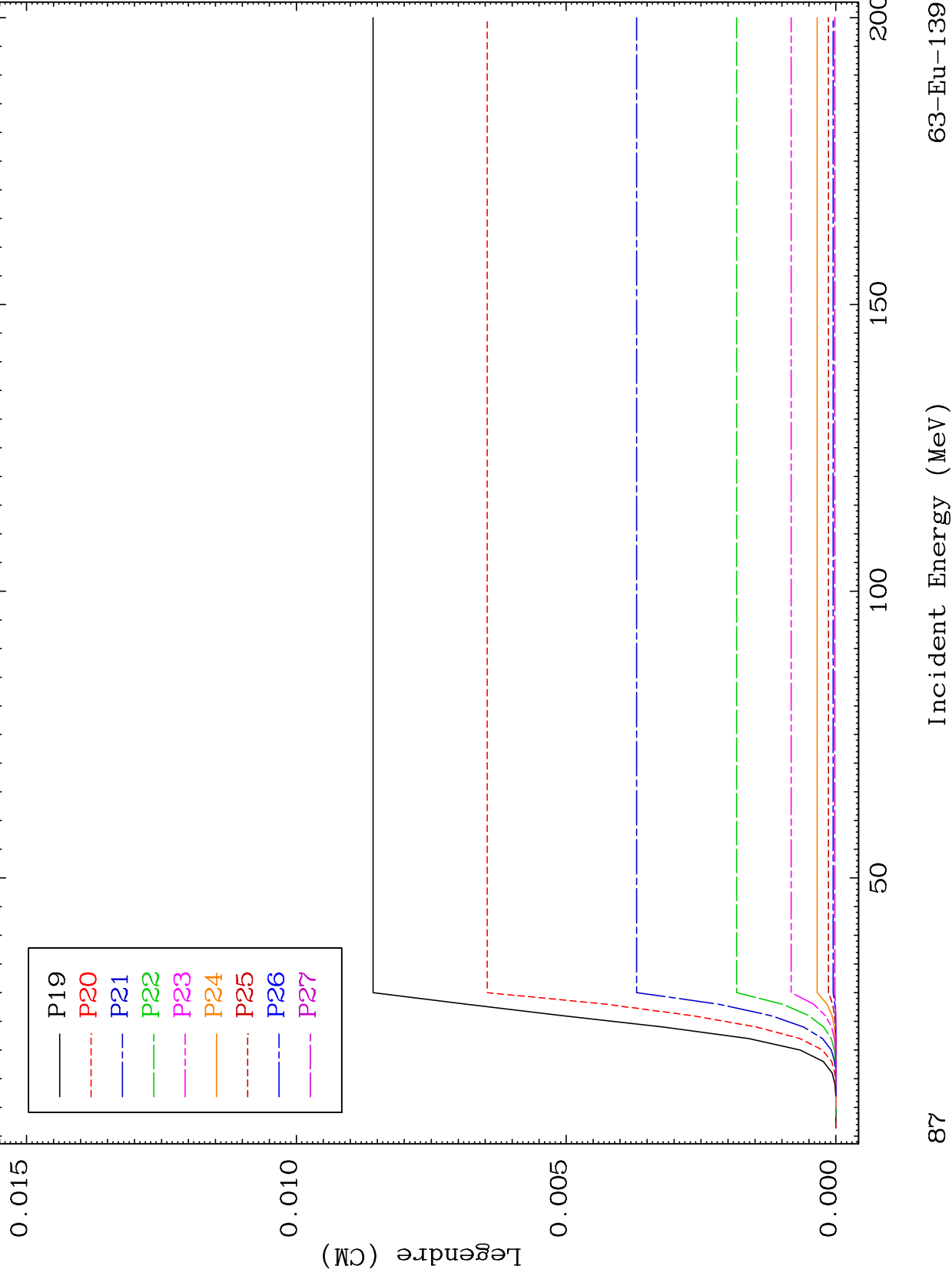
Incident Energy (MeV)

63-Eu-139

MAT 6289

865.4 keV (n,n') Level
Legendre Coefficients

63-Eu-139



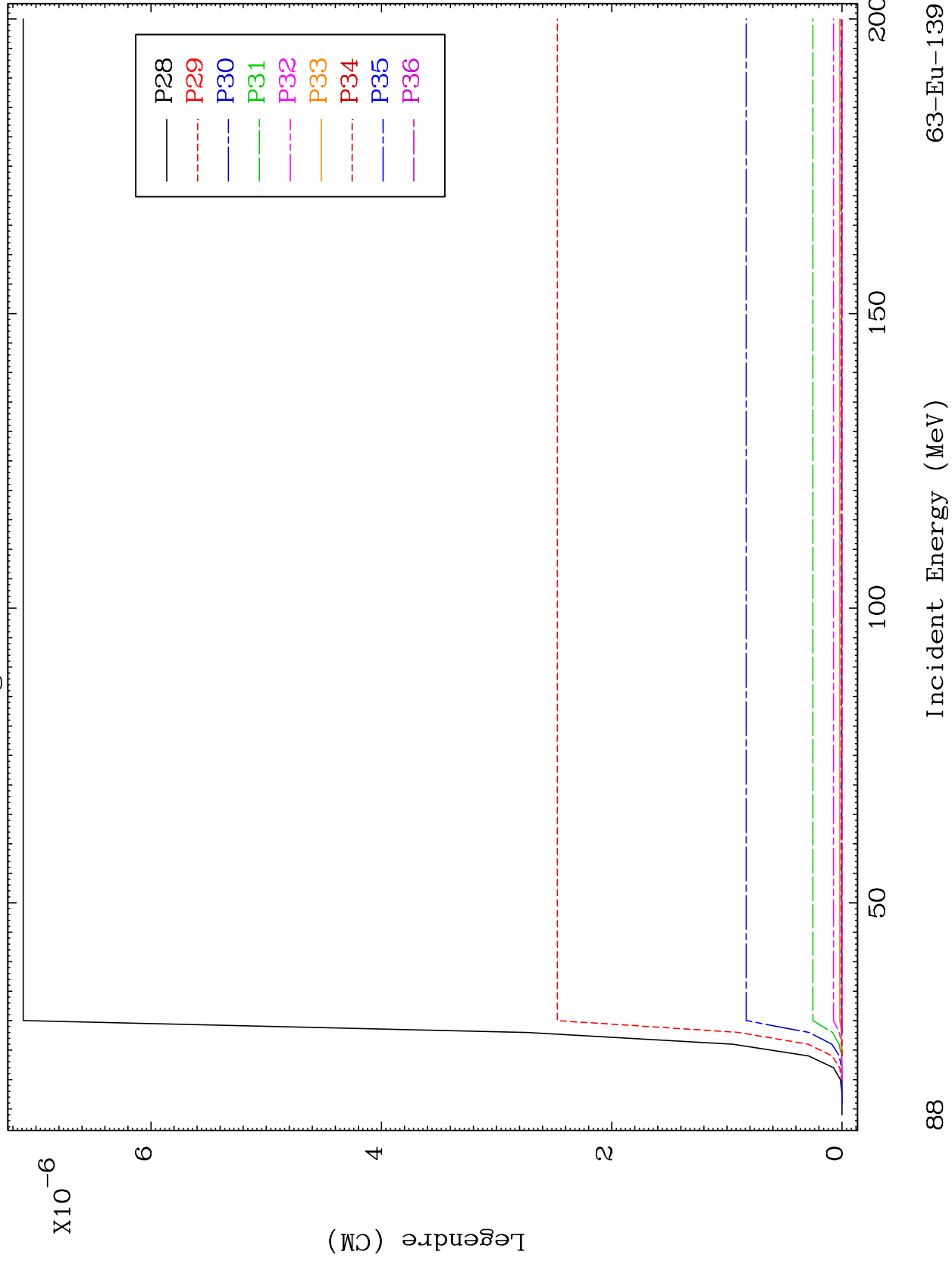
87

63-Eu-139

MAT 6289

865.4 keV (n,n') Level
Legendre Coefficients

63-Eu-139



88

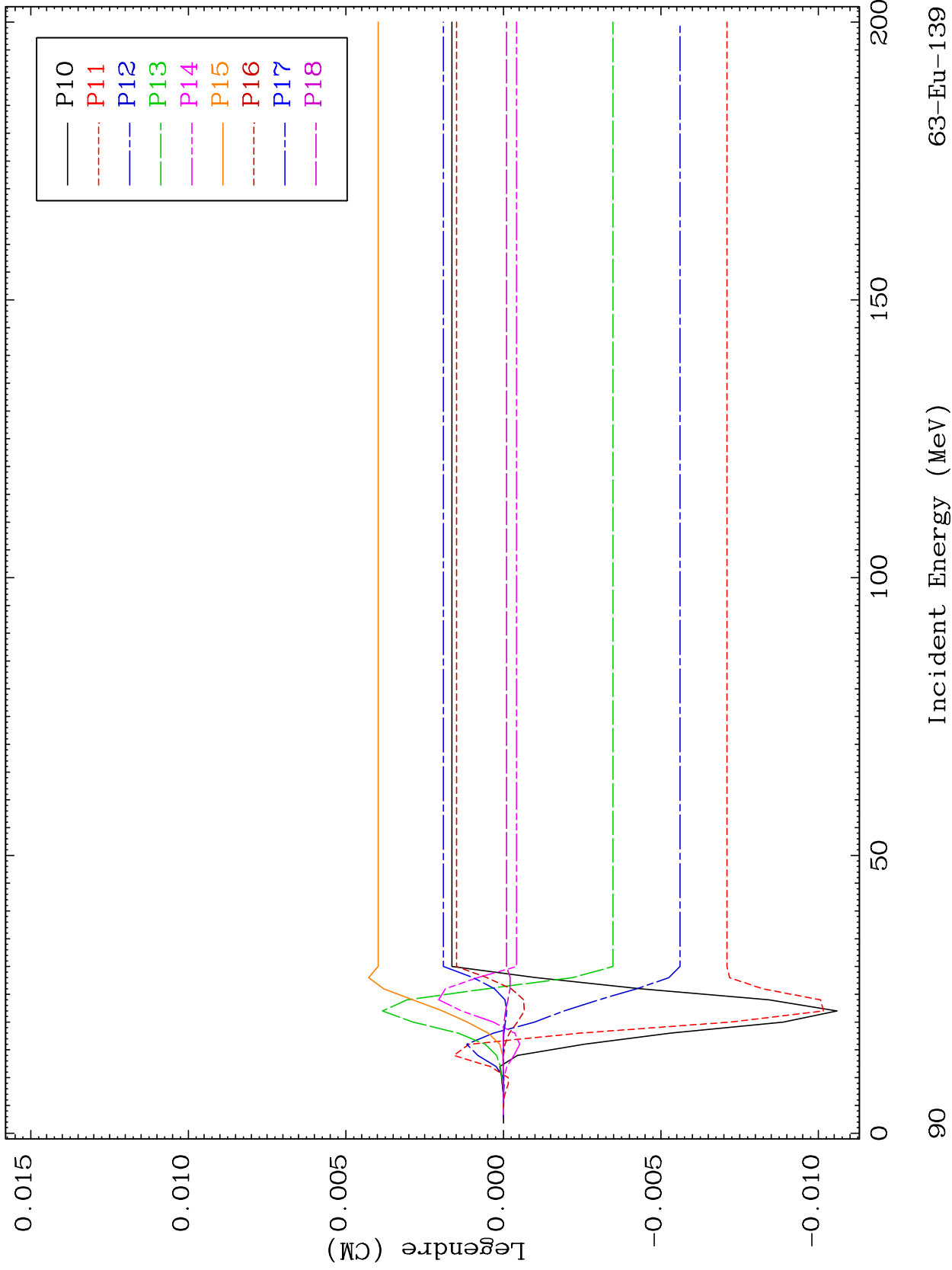
Incident Energy (MeV)

63-Eu-139

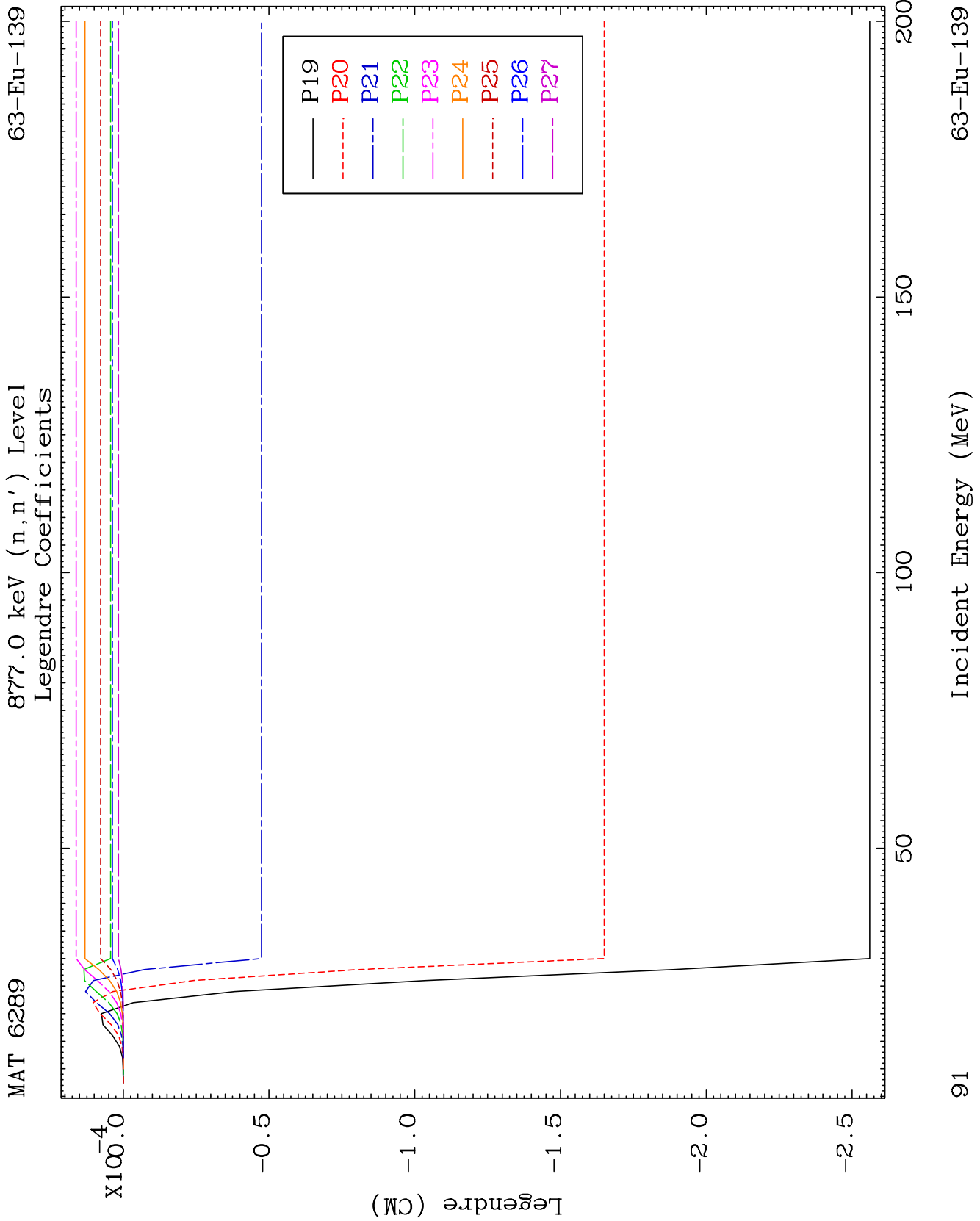
MAT 6289

877.0 keV (n,n') Level
Legendre Coefficients

63-Eu-139



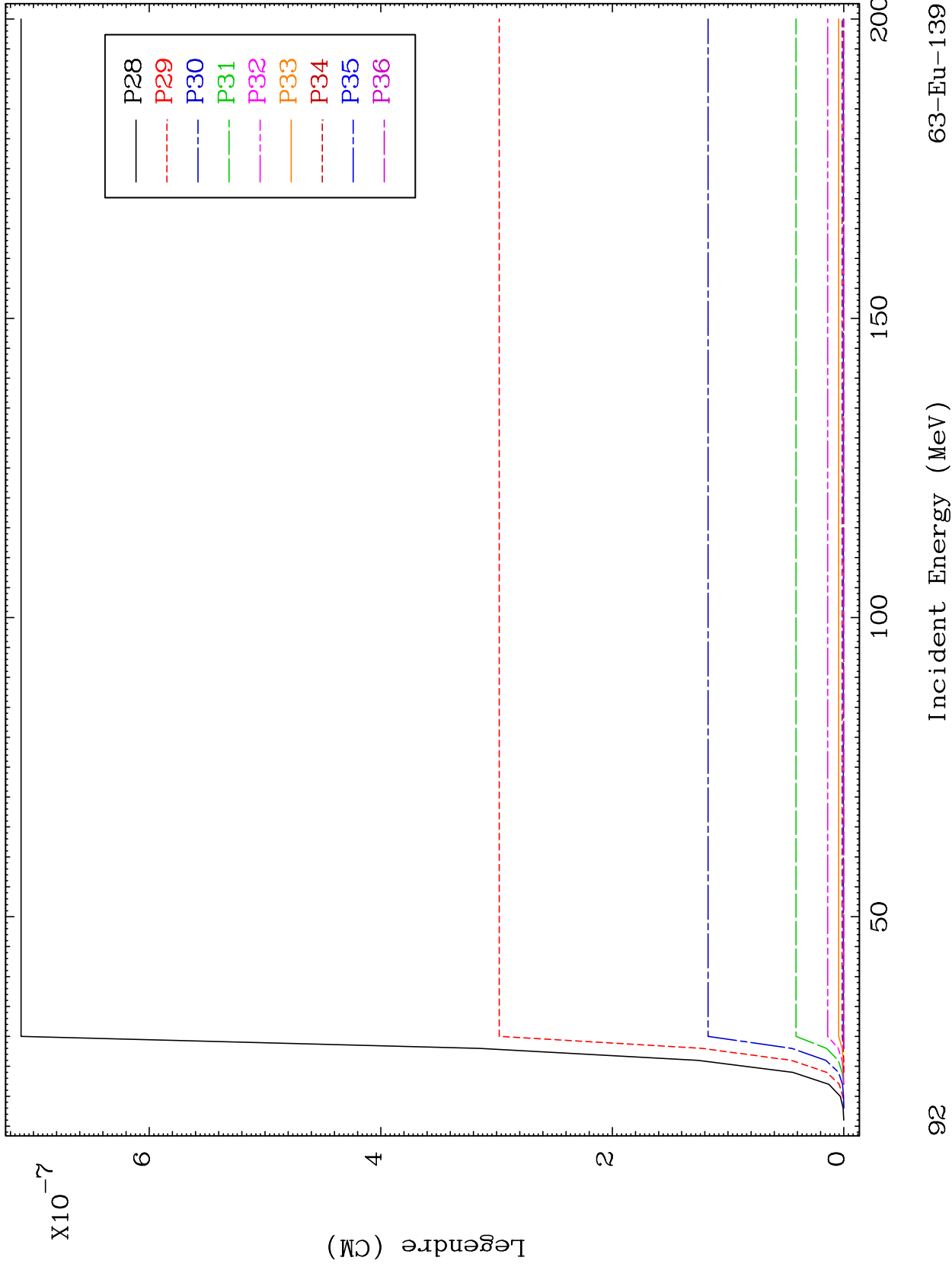
63-Eu-139

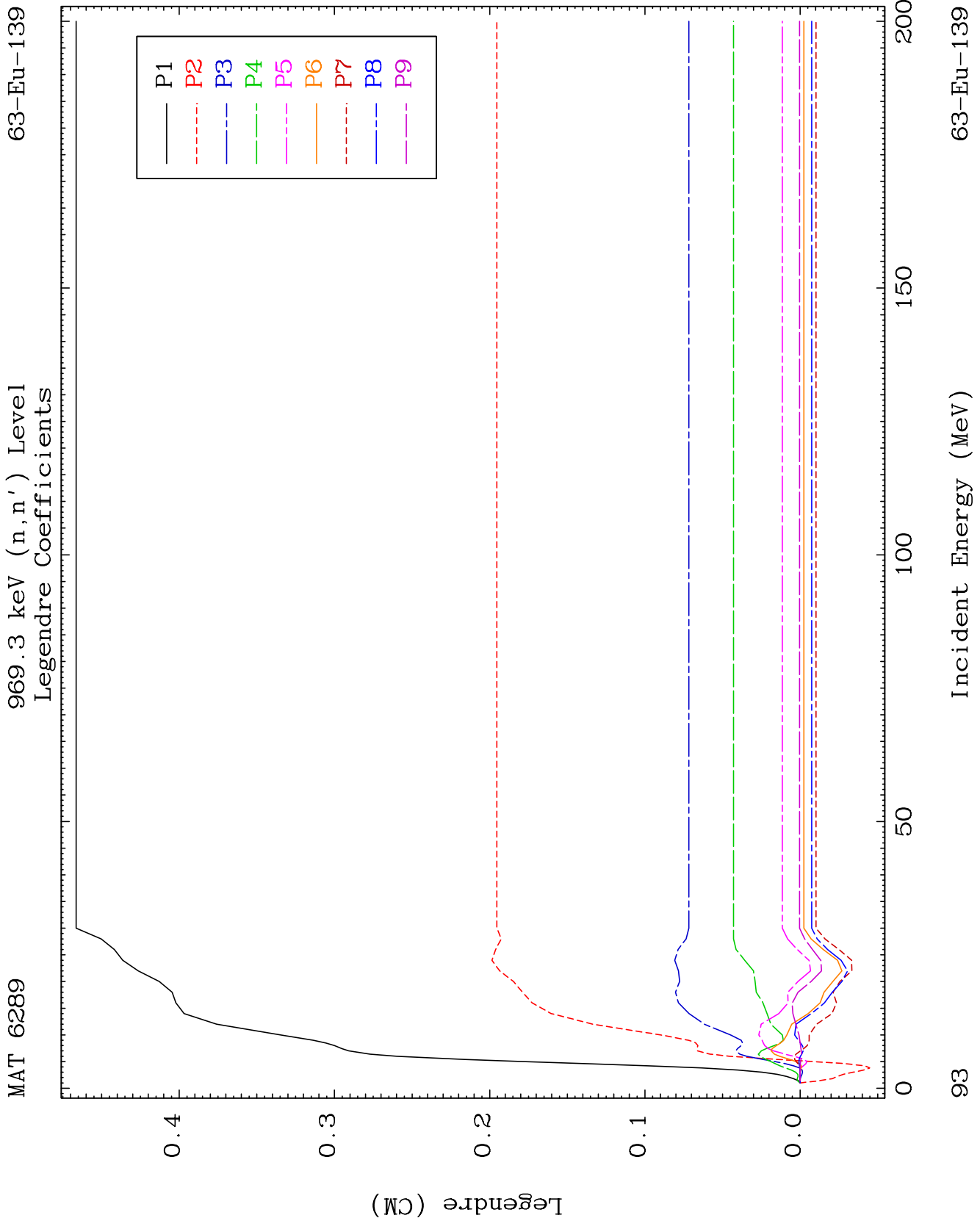


MAT 6289

877.0 keV (n,n') Level
Legendre Coefficients

63-Eu-139

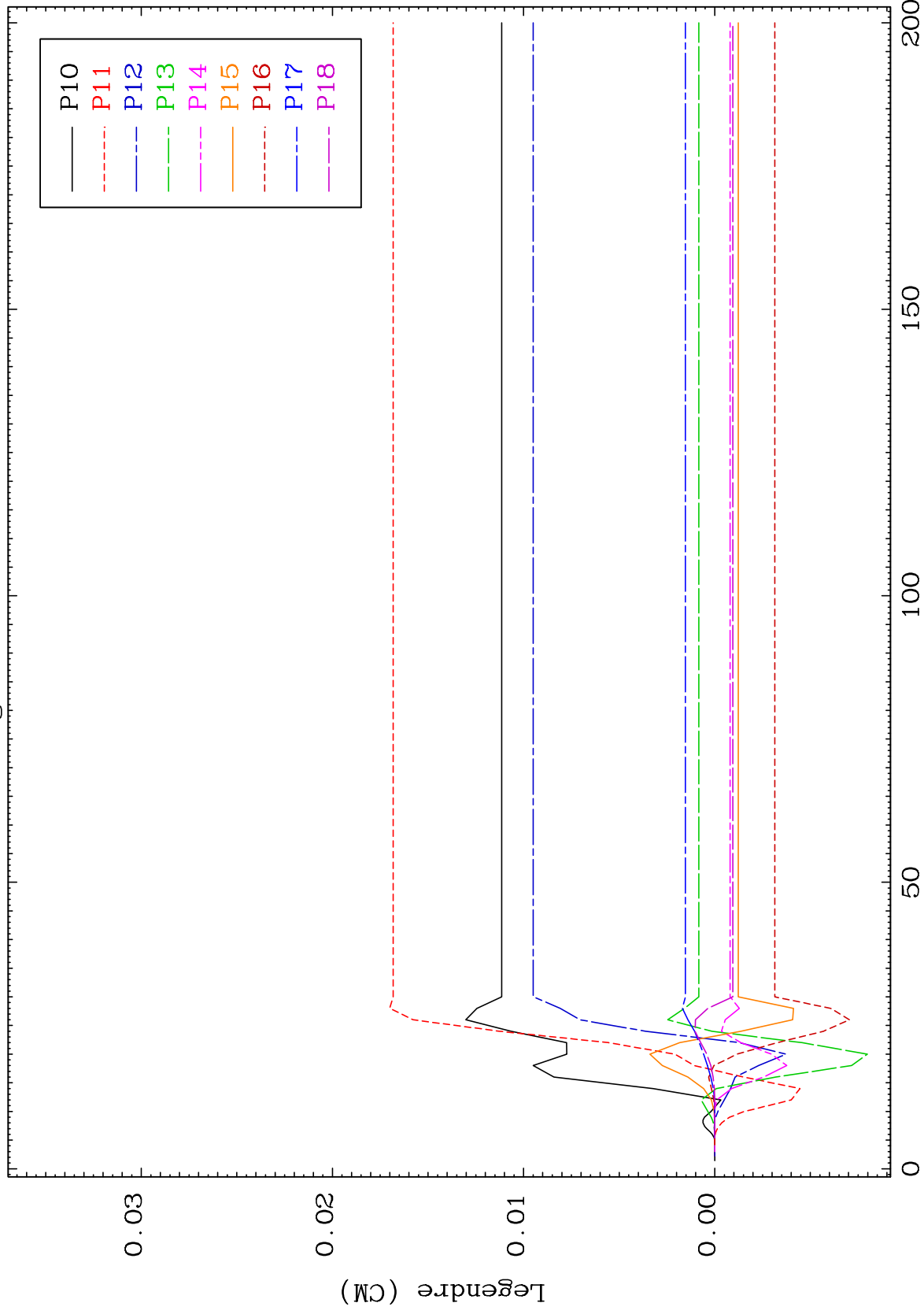




MAT 6289

969.3 keV (n,n') Level
Legendre Coefficients

63-Eu-139



94

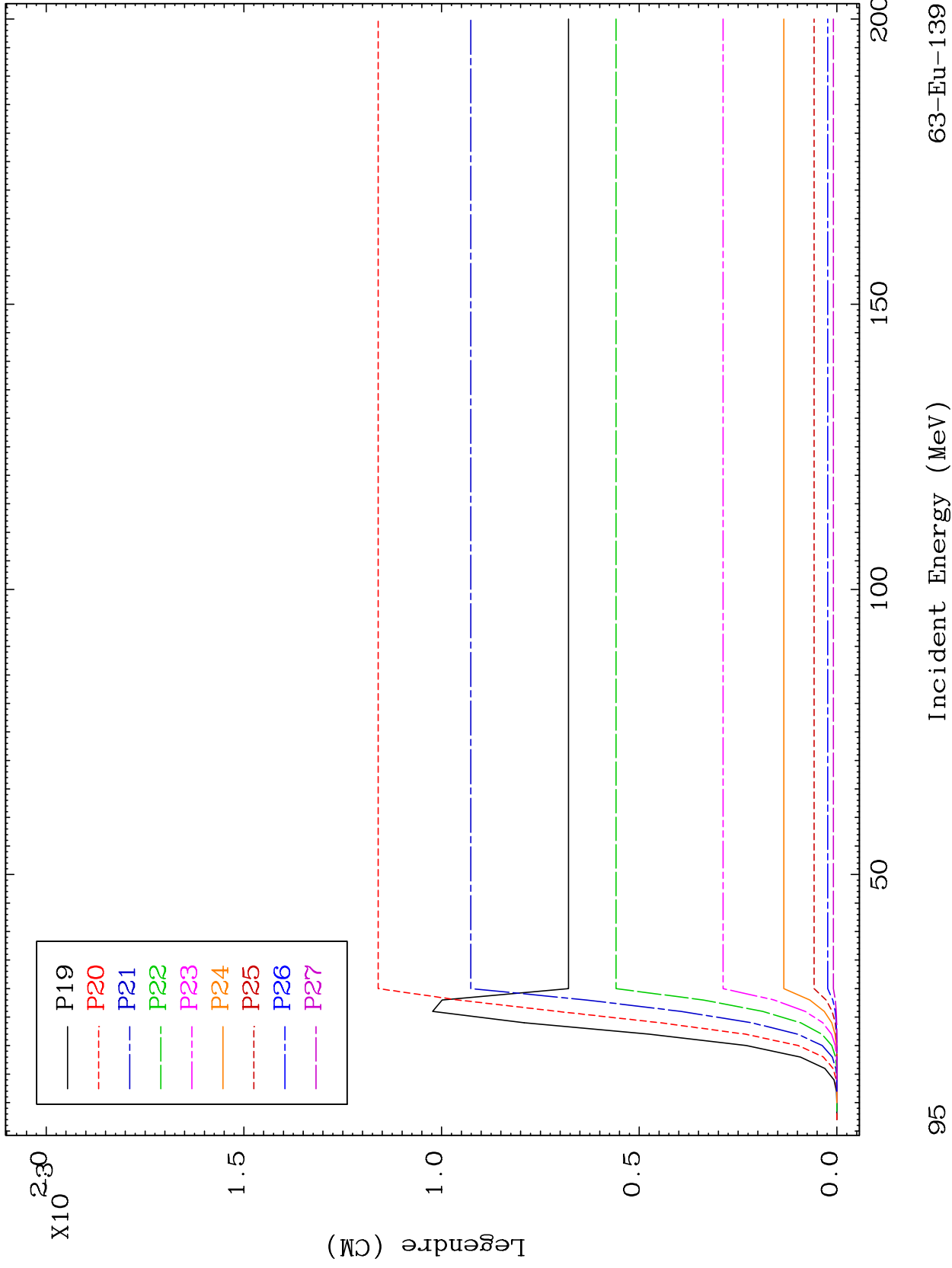
Incident Energy (MeV)

63-Eu-139

MAT 6289

969.3 keV (n,n') Level
Legendre Coefficients

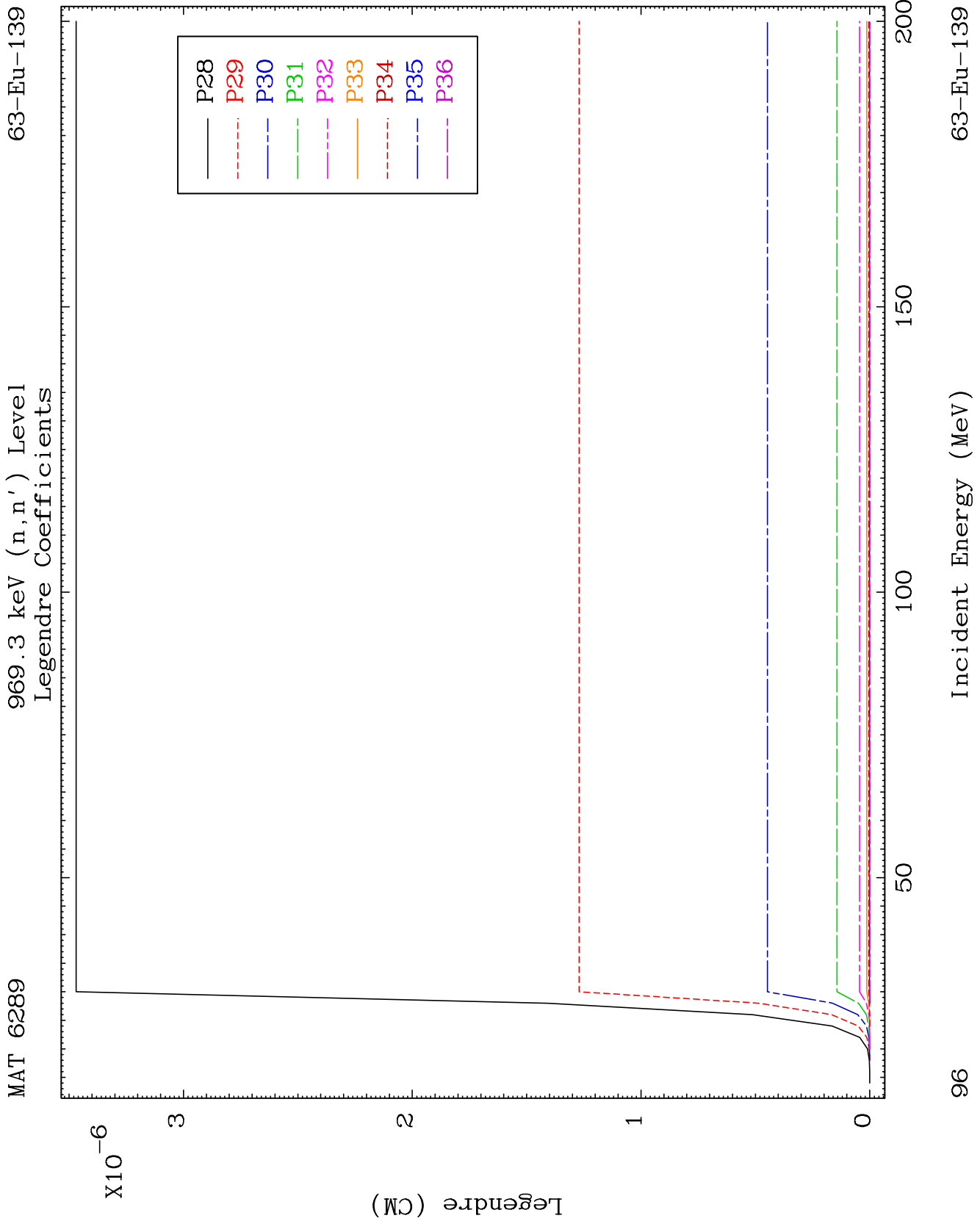
63-Eu-139



95

Incident Energy (MeV)

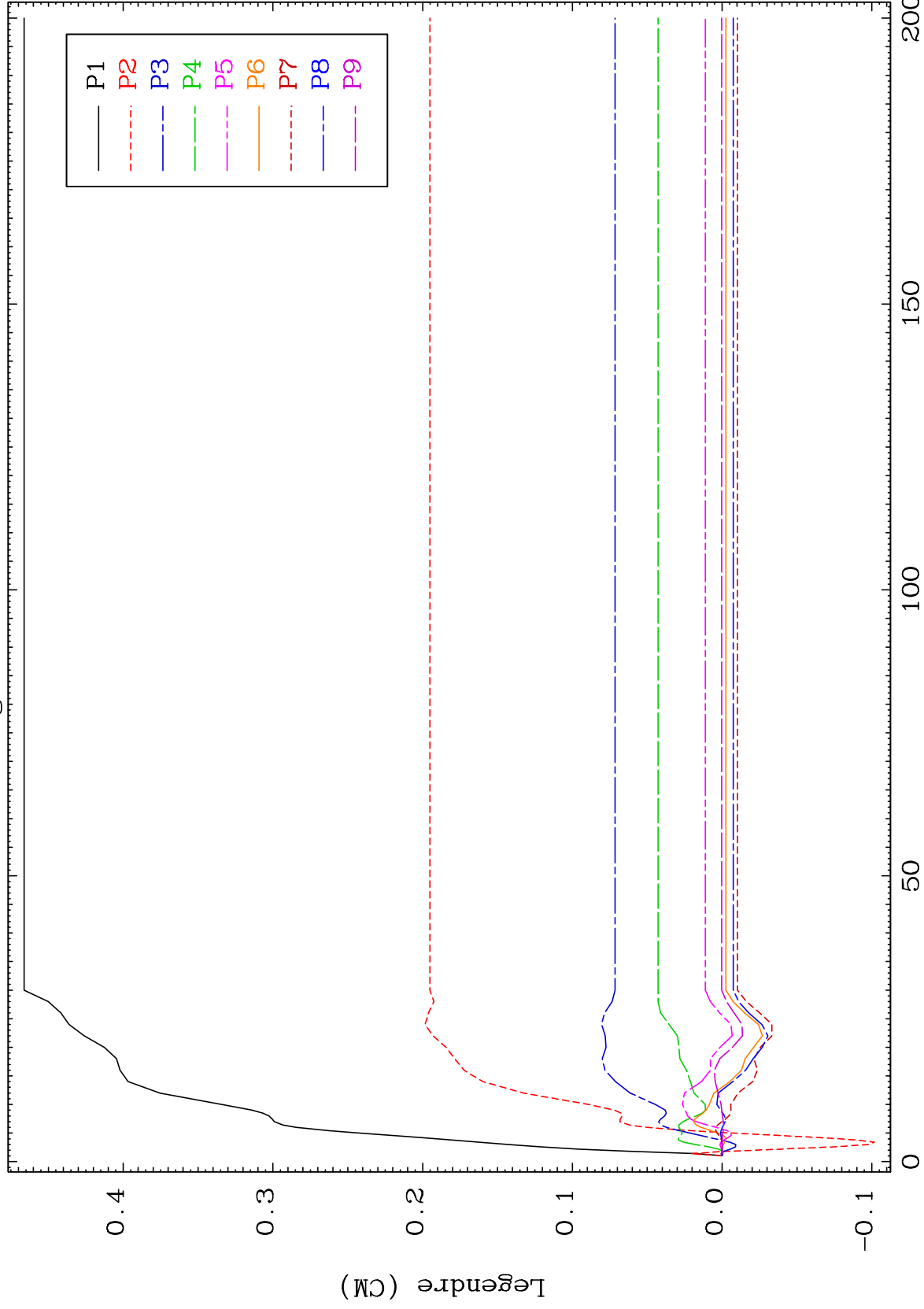
63-Eu-139



MAT 6289

1.025 MeV (n,n') Level
Legendre Coefficients

63-Eu-139



97

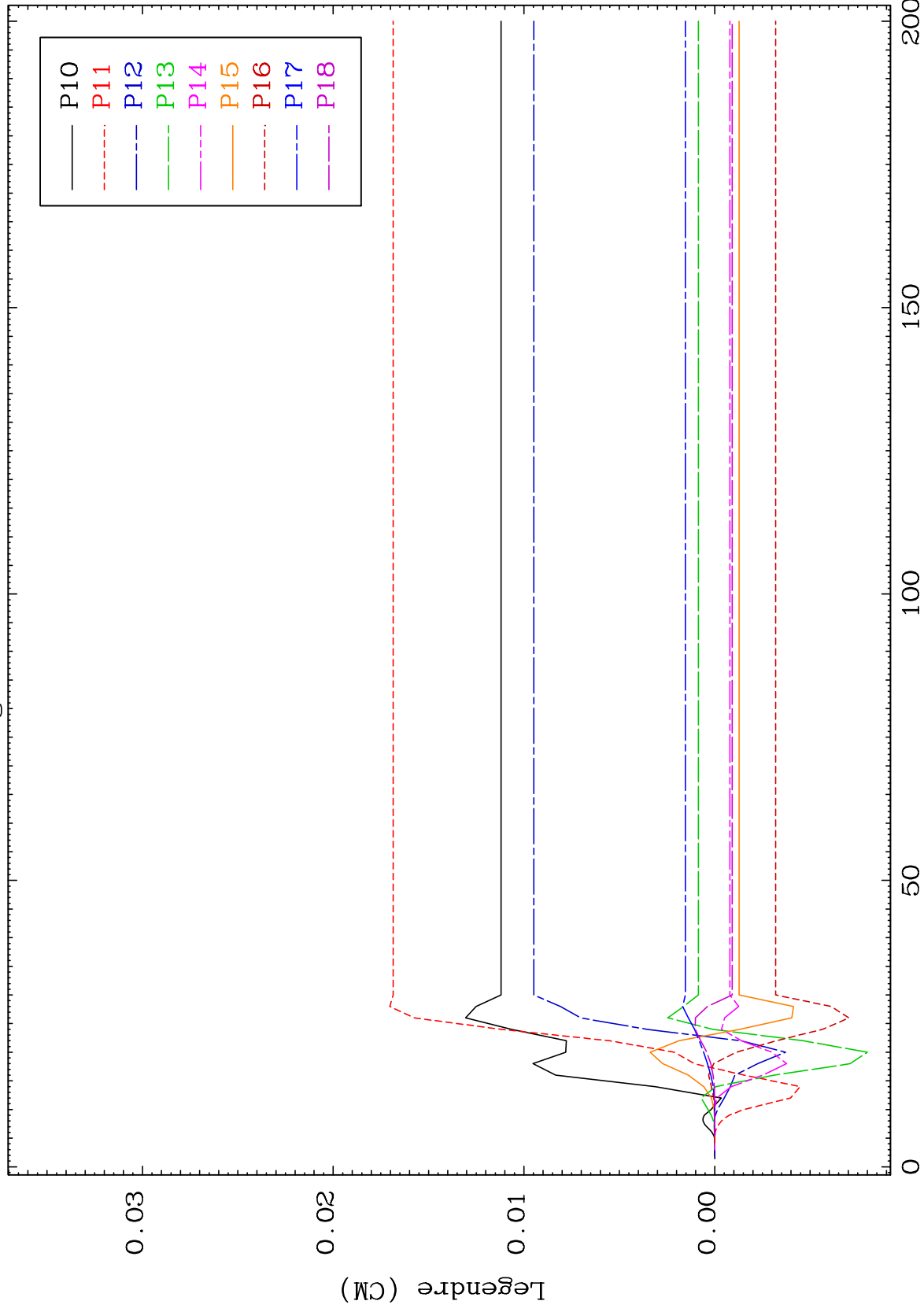
Incident Energy (MeV)

63-Eu-139

MAT 6289

1.025 MeV (n,n') Level
Legendre Coefficients

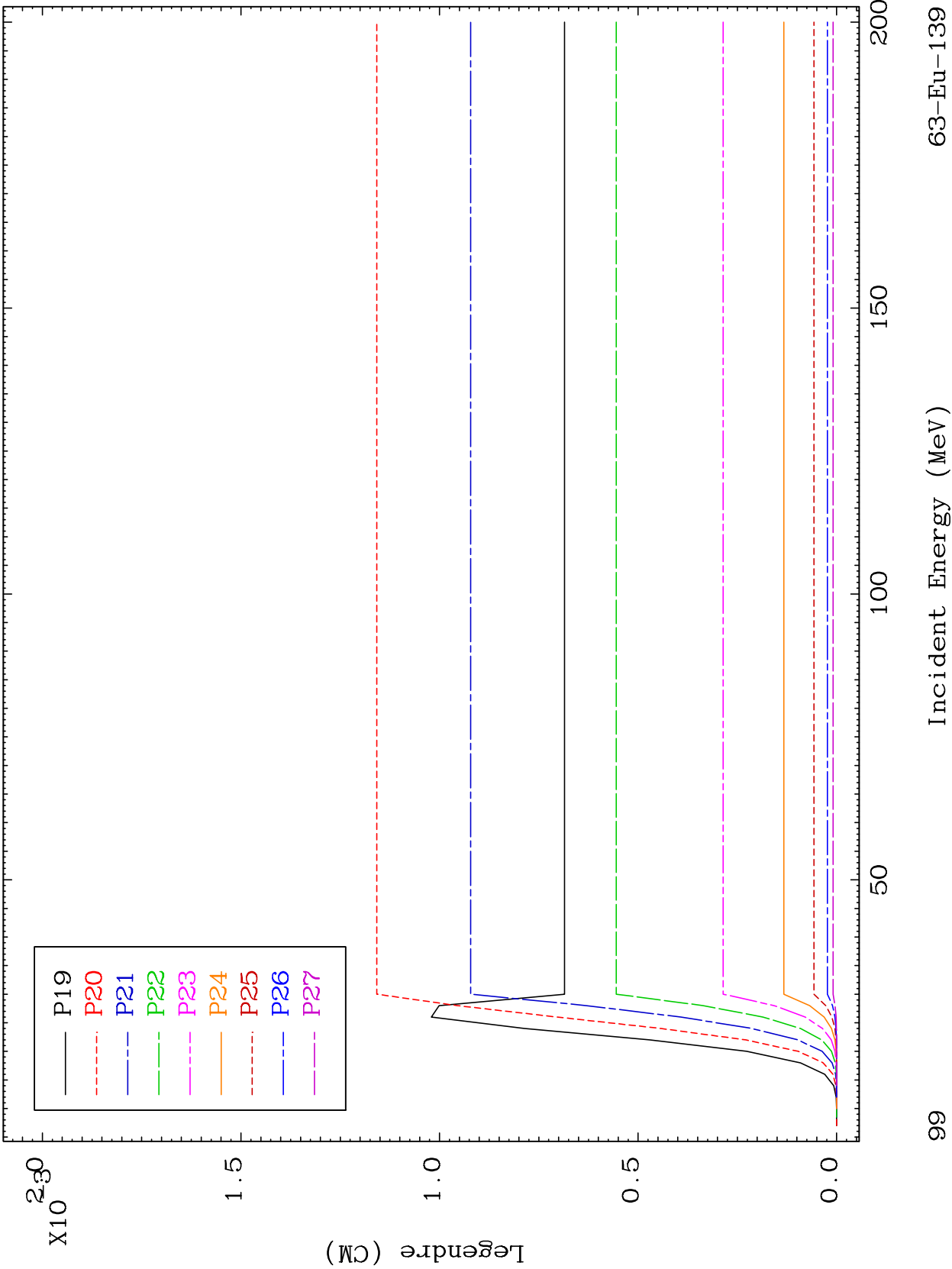
63-Eu-139



98

Incident Energy (MeV)

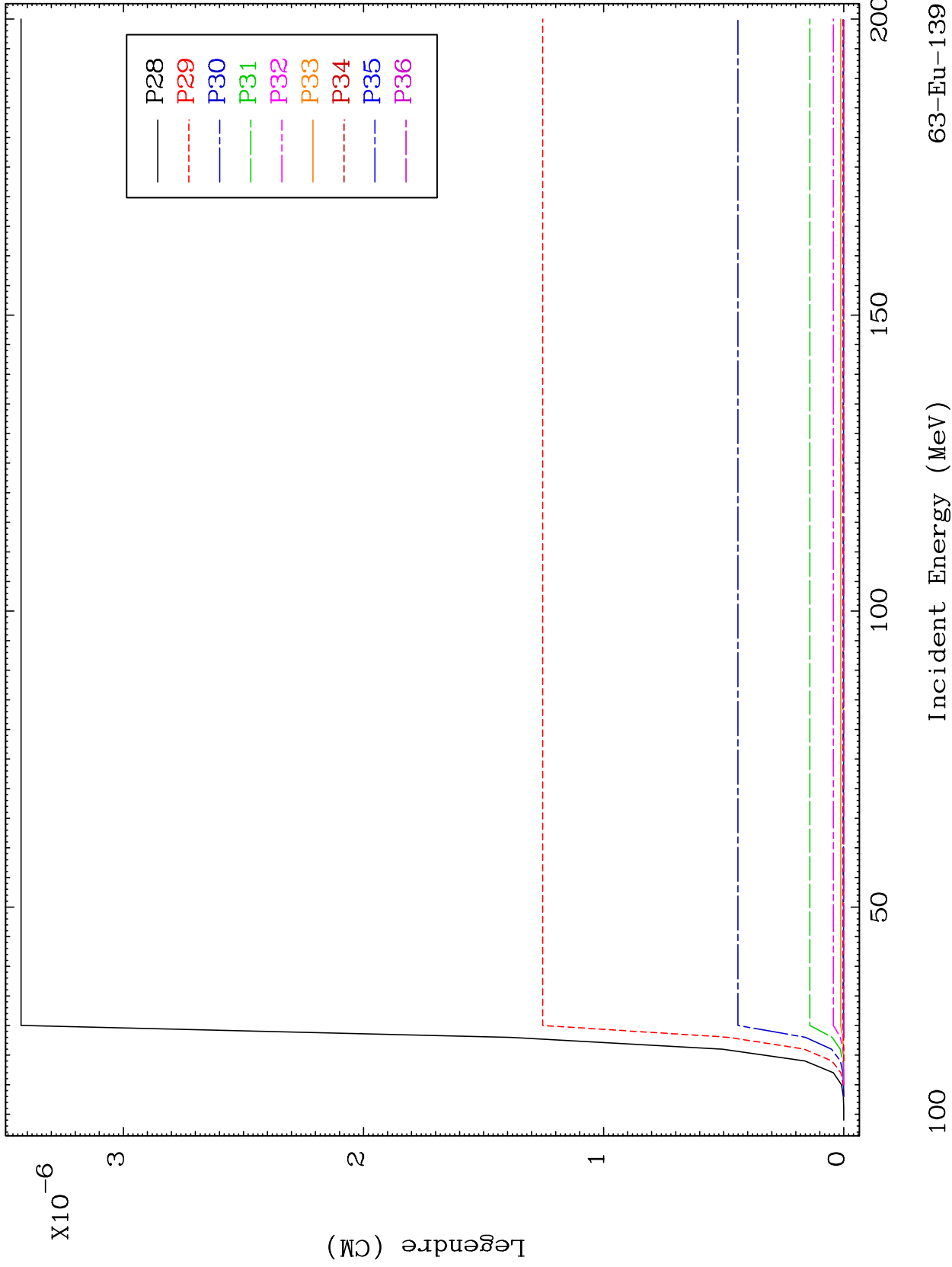
63-Eu-139



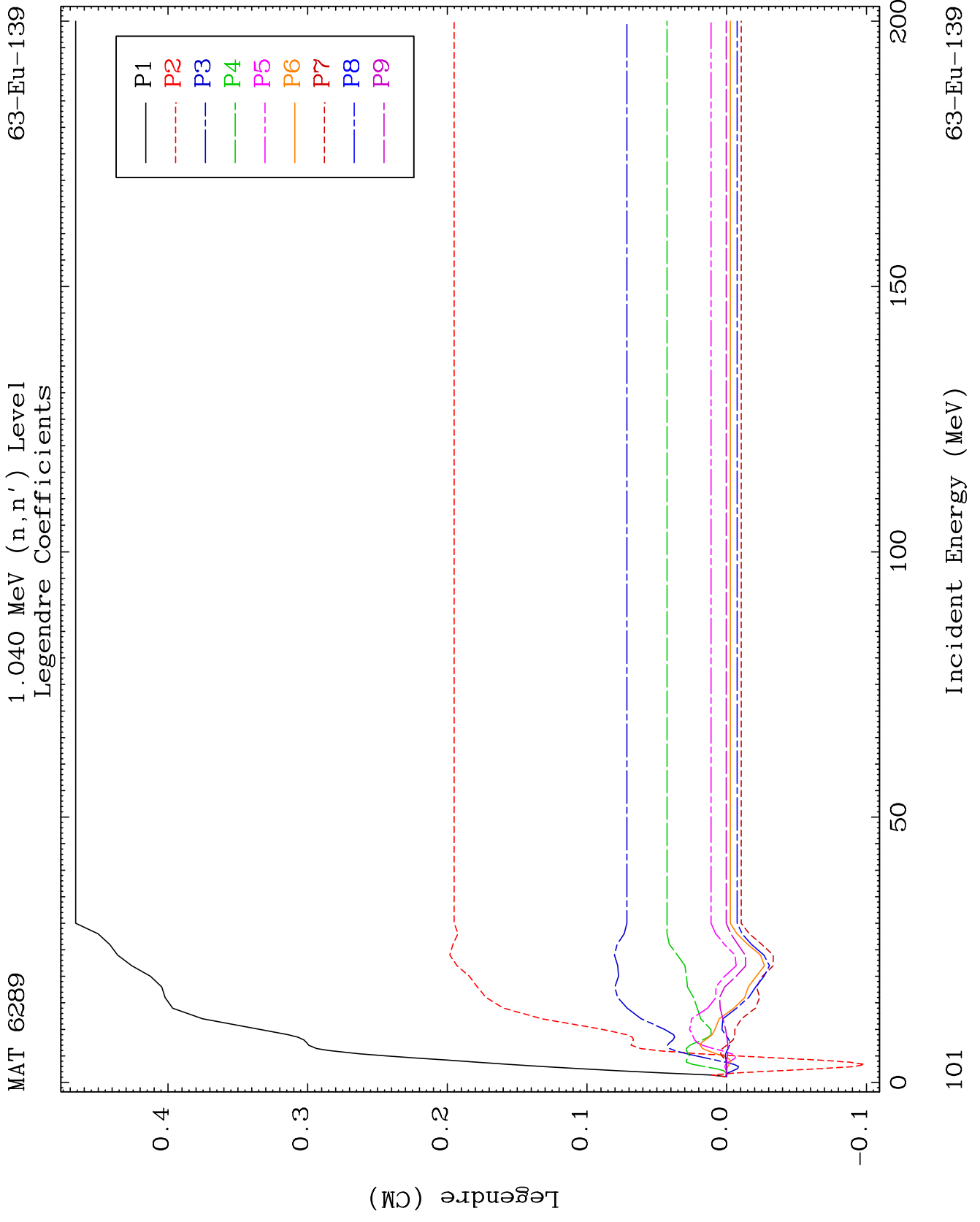
MAT 6289

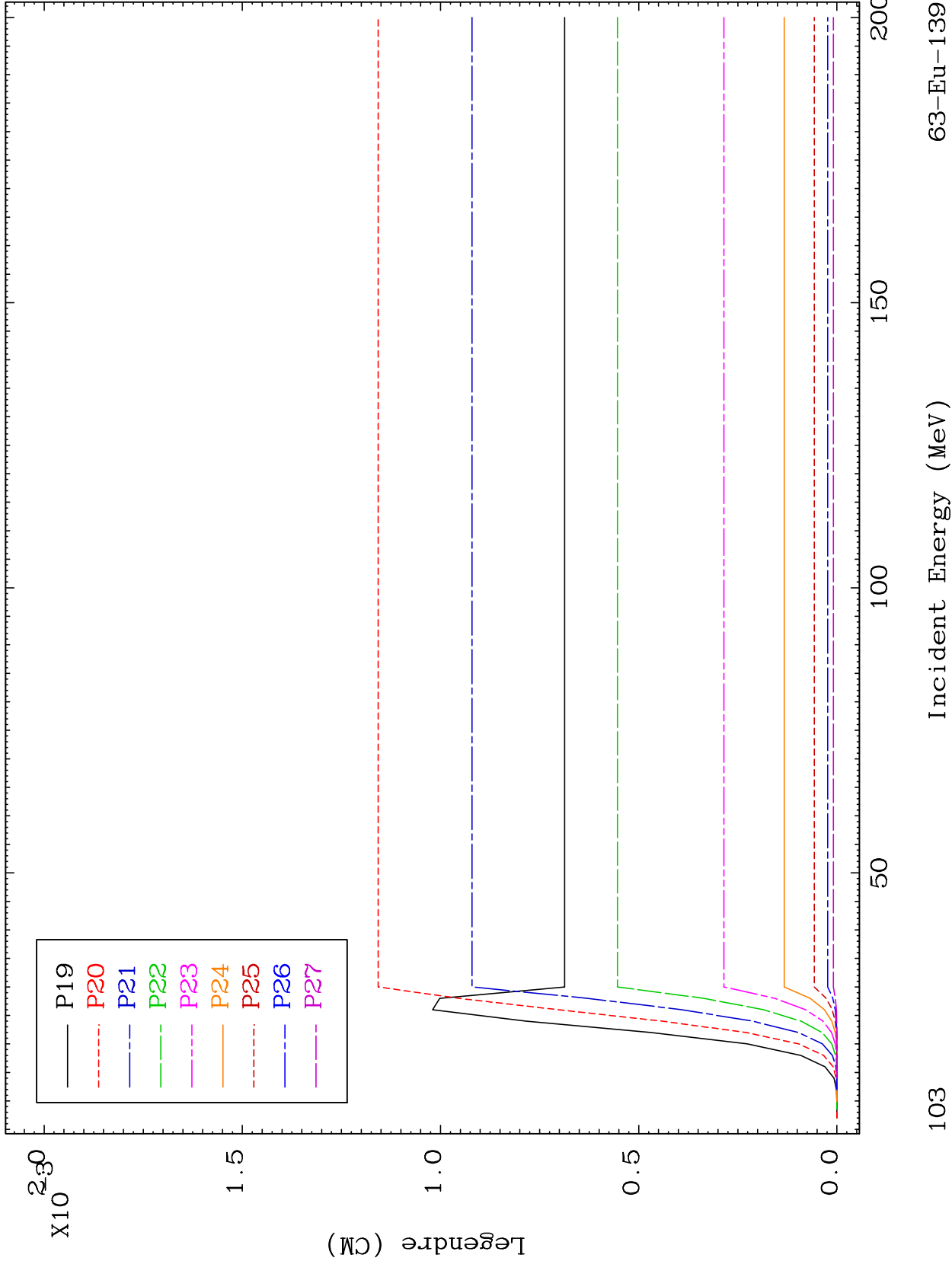
1.025 MeV (n,n') Level
Legendre Coefficients

63-Eu-139



63-Eu-139

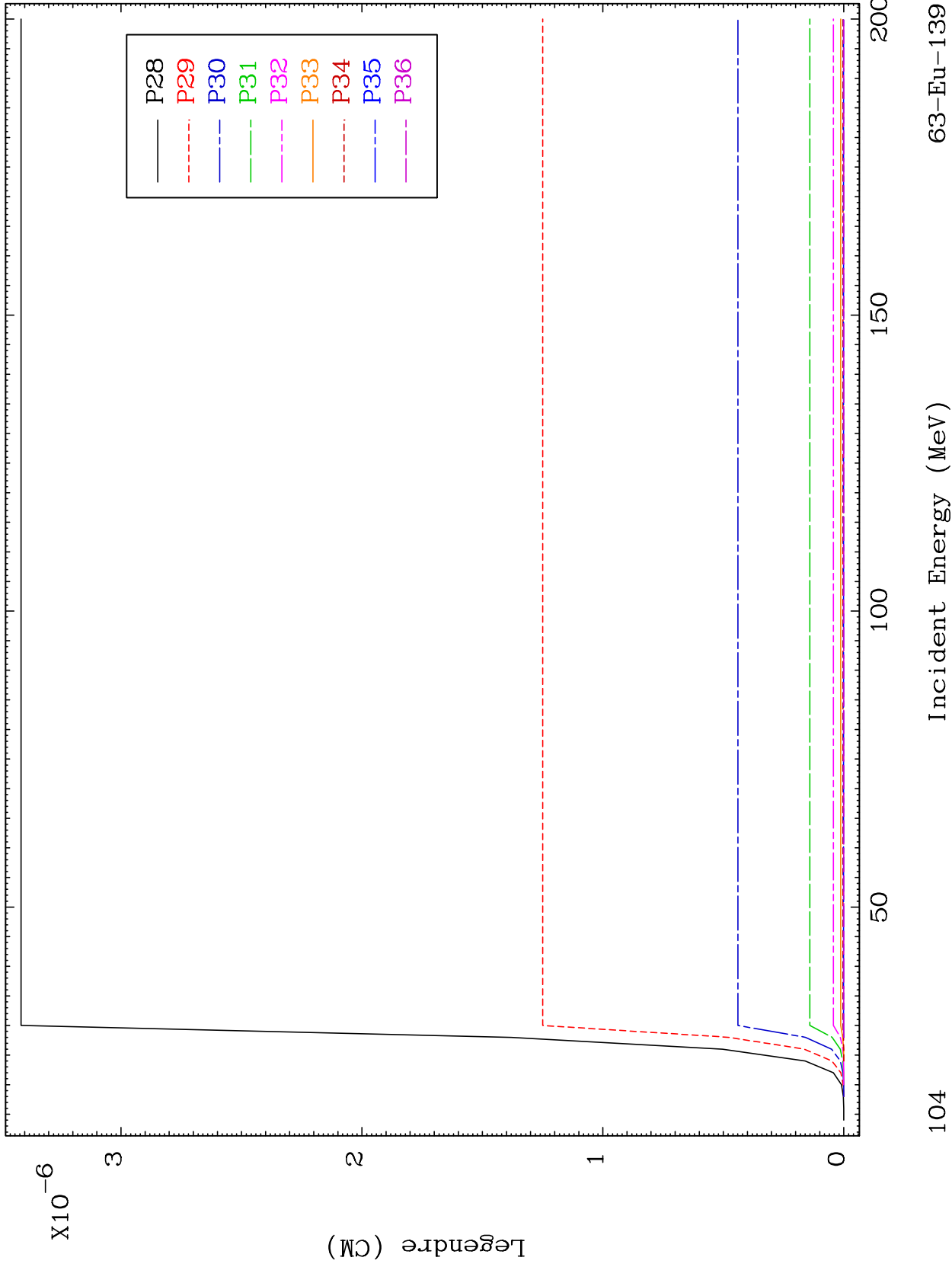




MAT 6289

1.040 MeV (n,n') Level
Legendre Coefficients

63-Eu-139

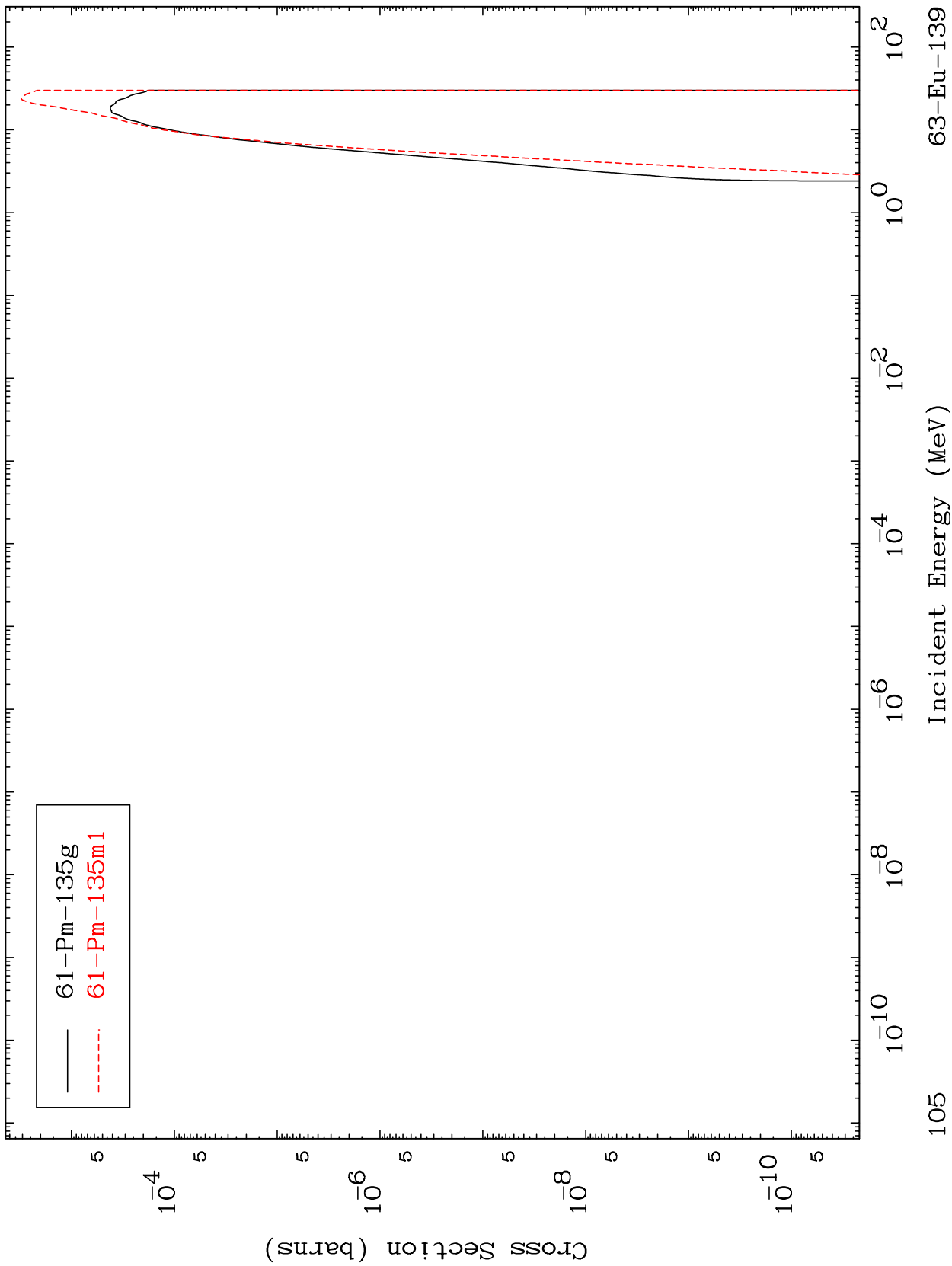


MAT 6289

$(n, n') \alpha$

$^{63}\text{Eu}-139$

Radionuclide Production Cross Section



105

Incident Energy (MeV)

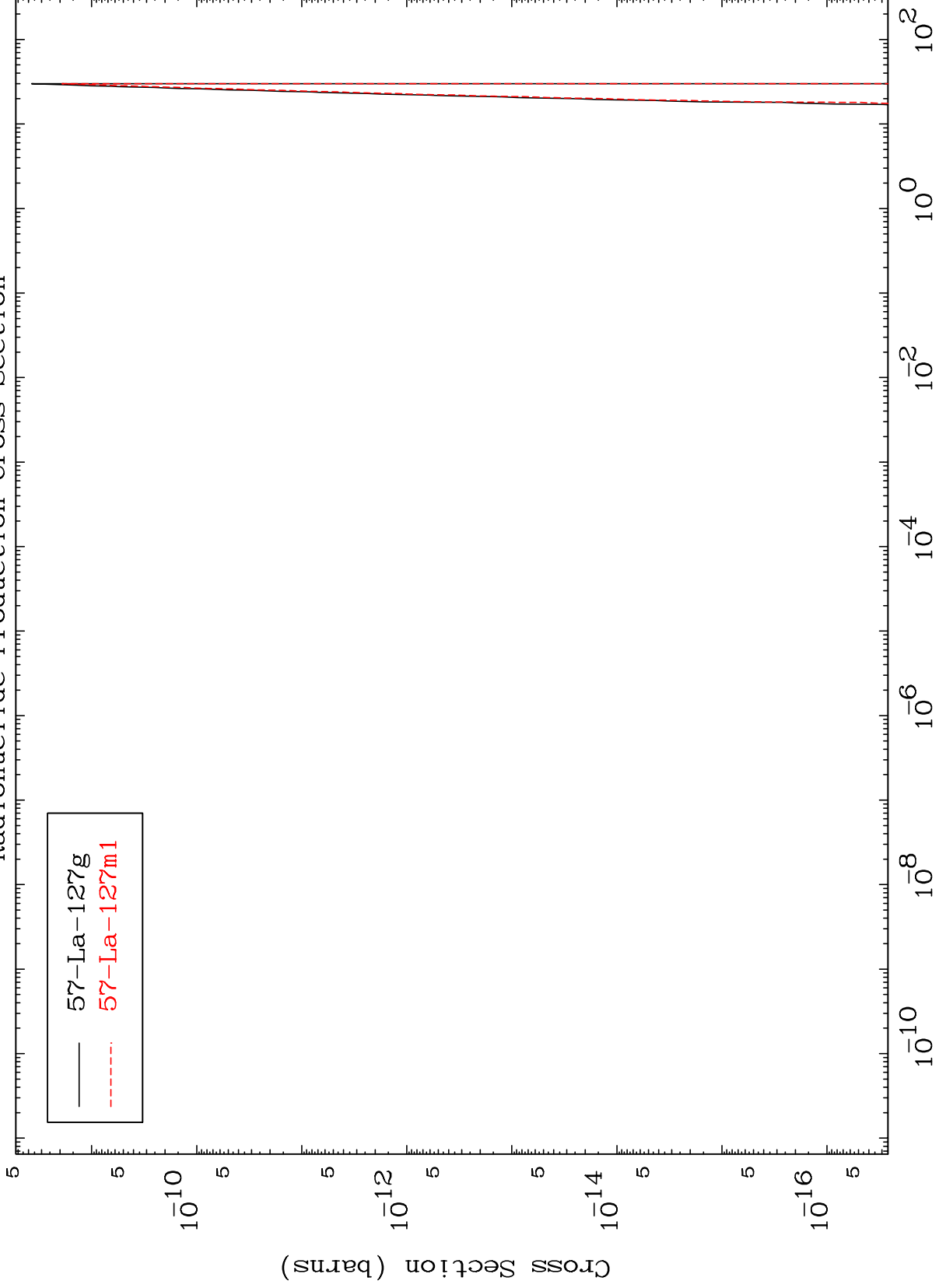
$^{63}\text{Eu}-139$

MAT 6289

(n,n') 3 α

63-Eu-139

Radionuclide Production Cross Section



106

Incident Energy (MeV)

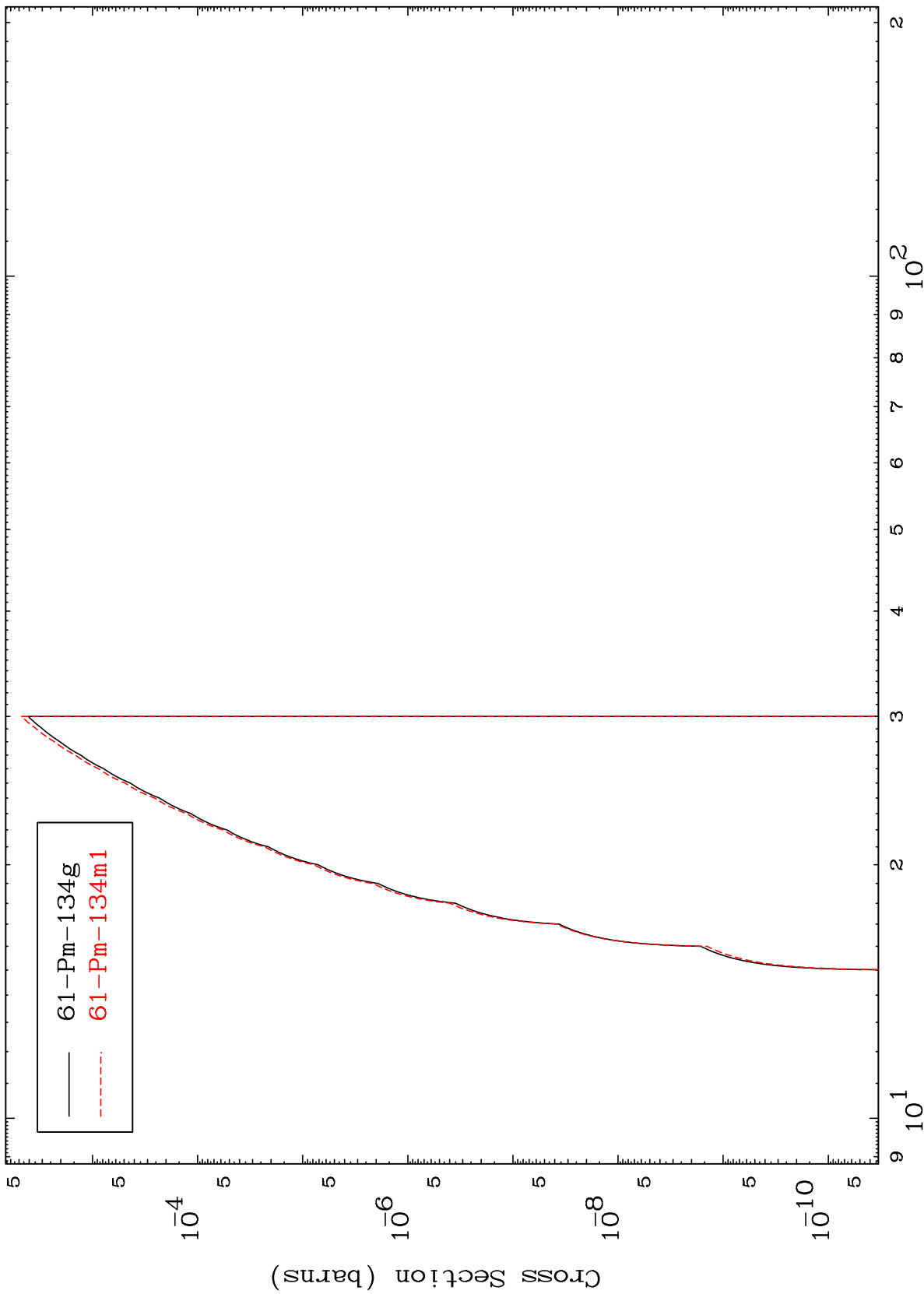
63-Eu-139

MAT 6289

(n,2n) α

63-Eu-139

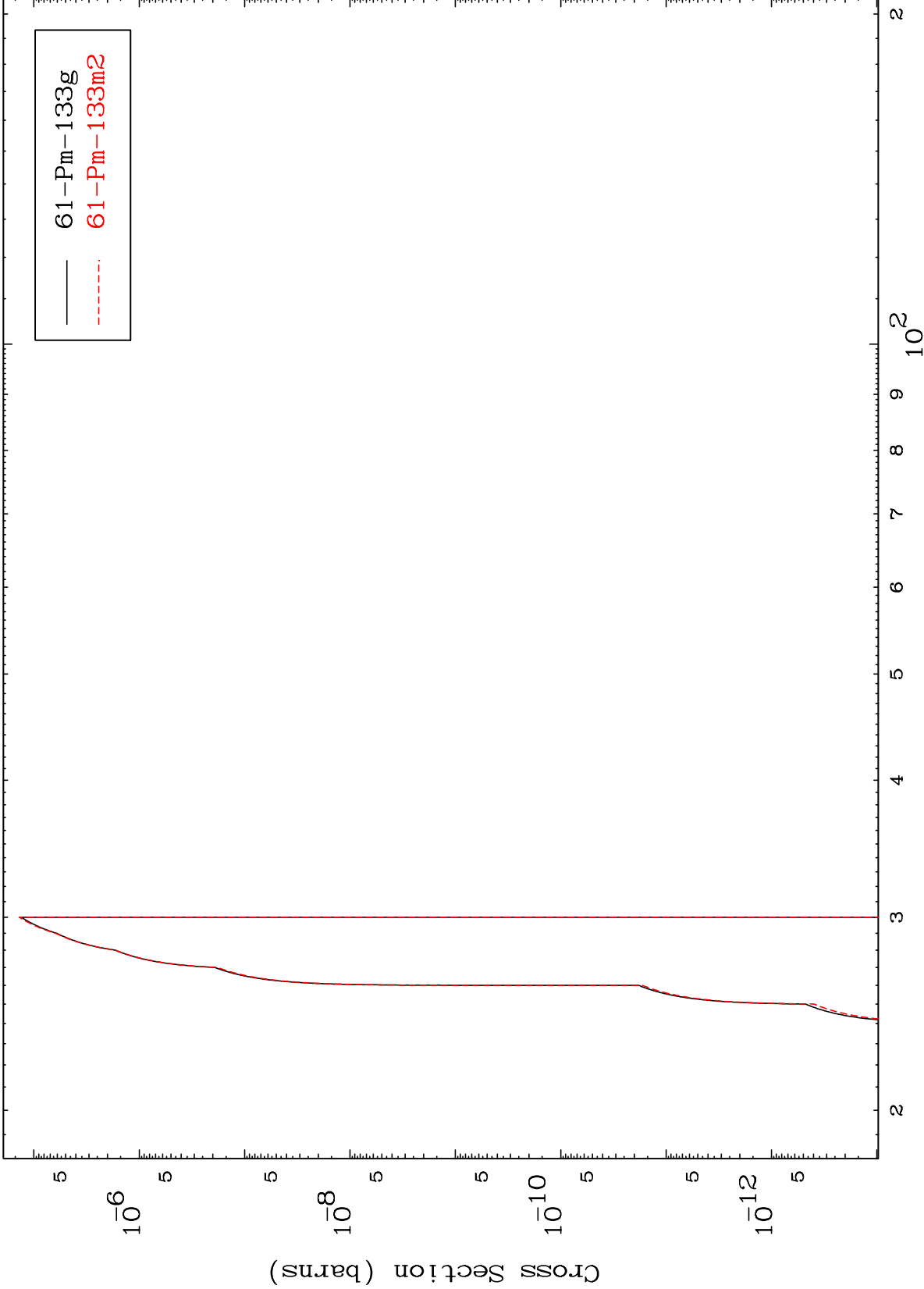
Radionuclide Production Cross Section



Incident Energy (MeV)

63-Eu-139

Radionuclide Production Cross Section

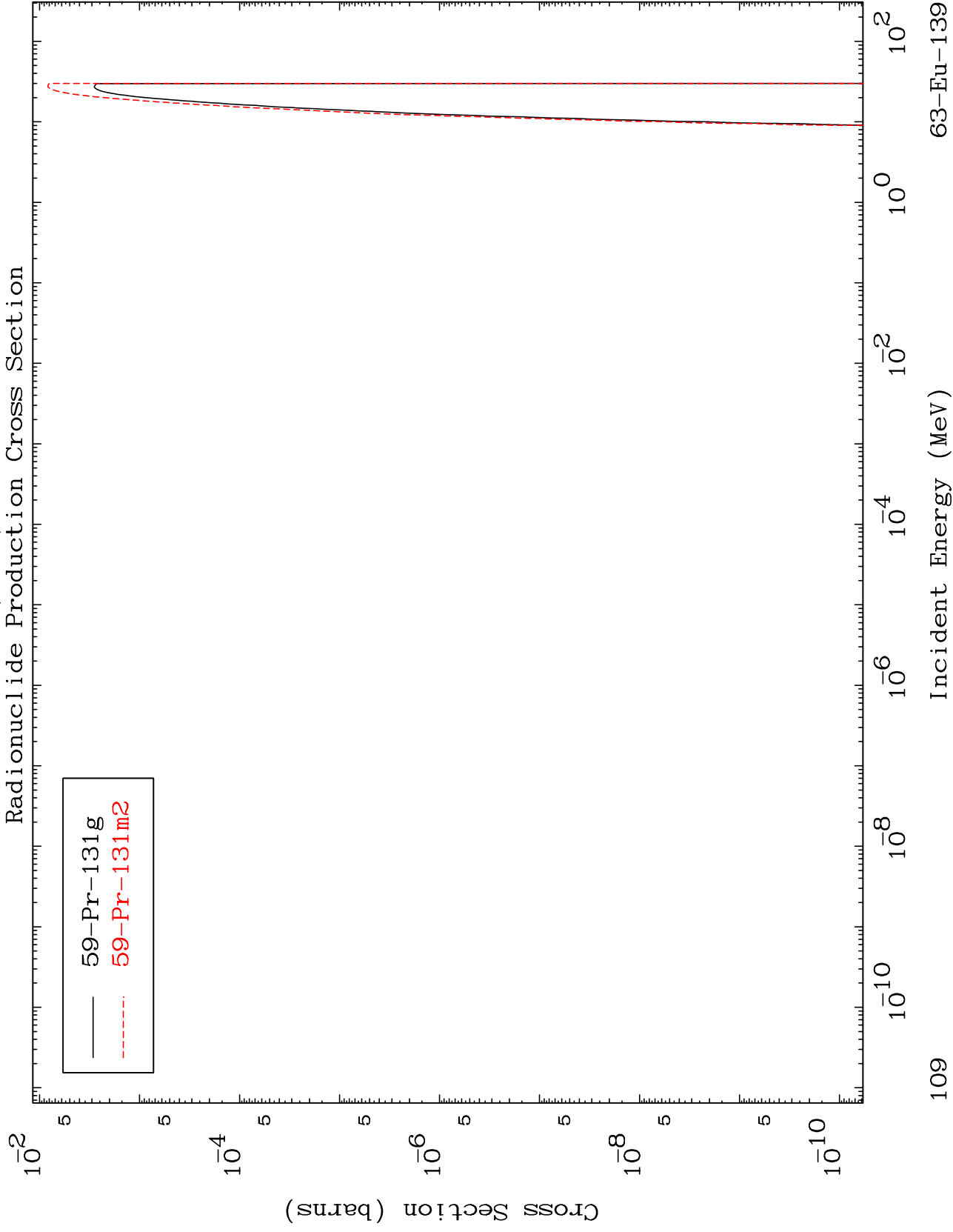


61-Pm-133g
61-Pm-133m2

MAT 6289

(n,n') 2 α

63-Eu-139

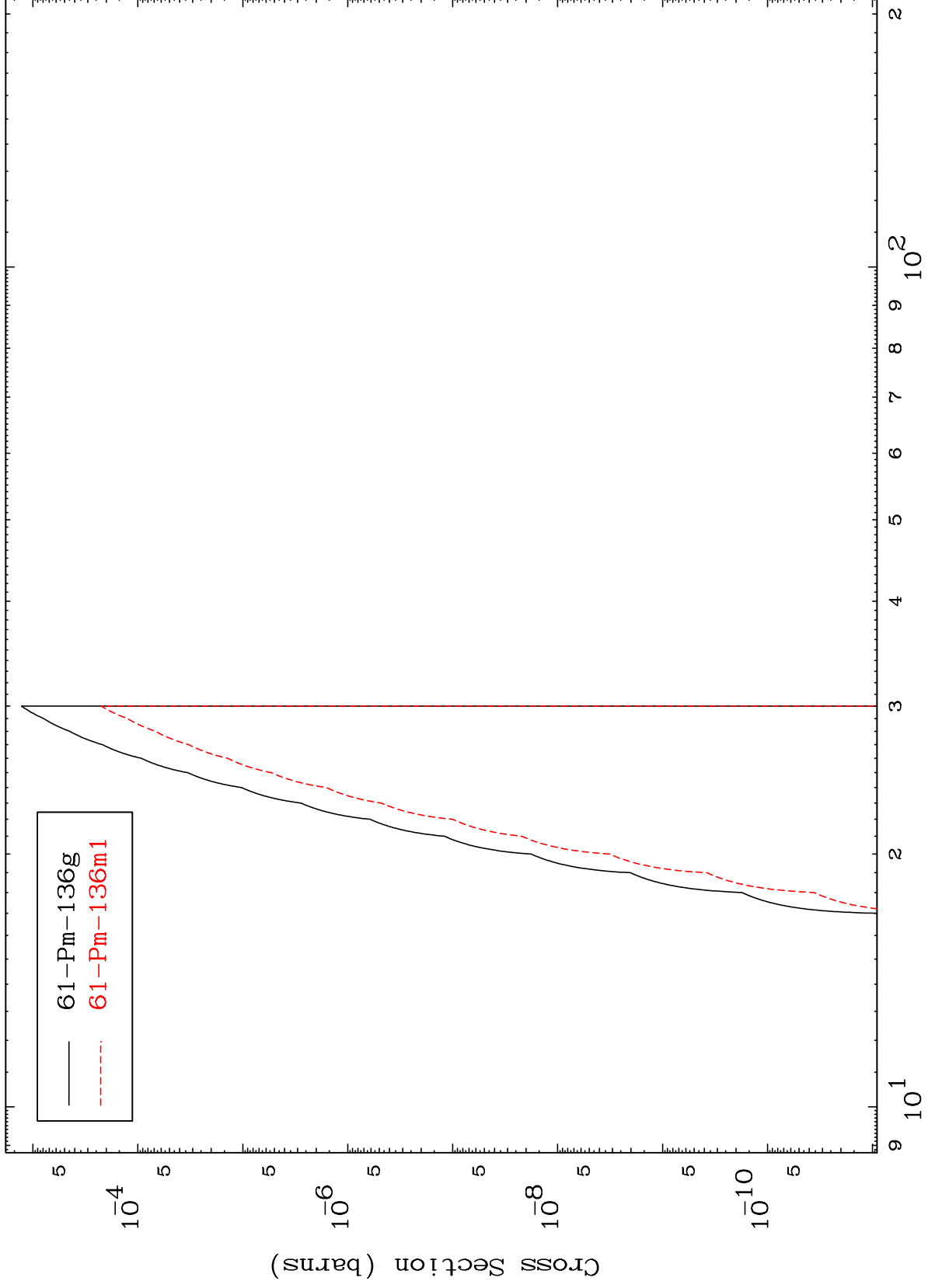


MAT 6289

(n,n') He-3

63-Eu-139

Radionuclide Production Cross Section



110

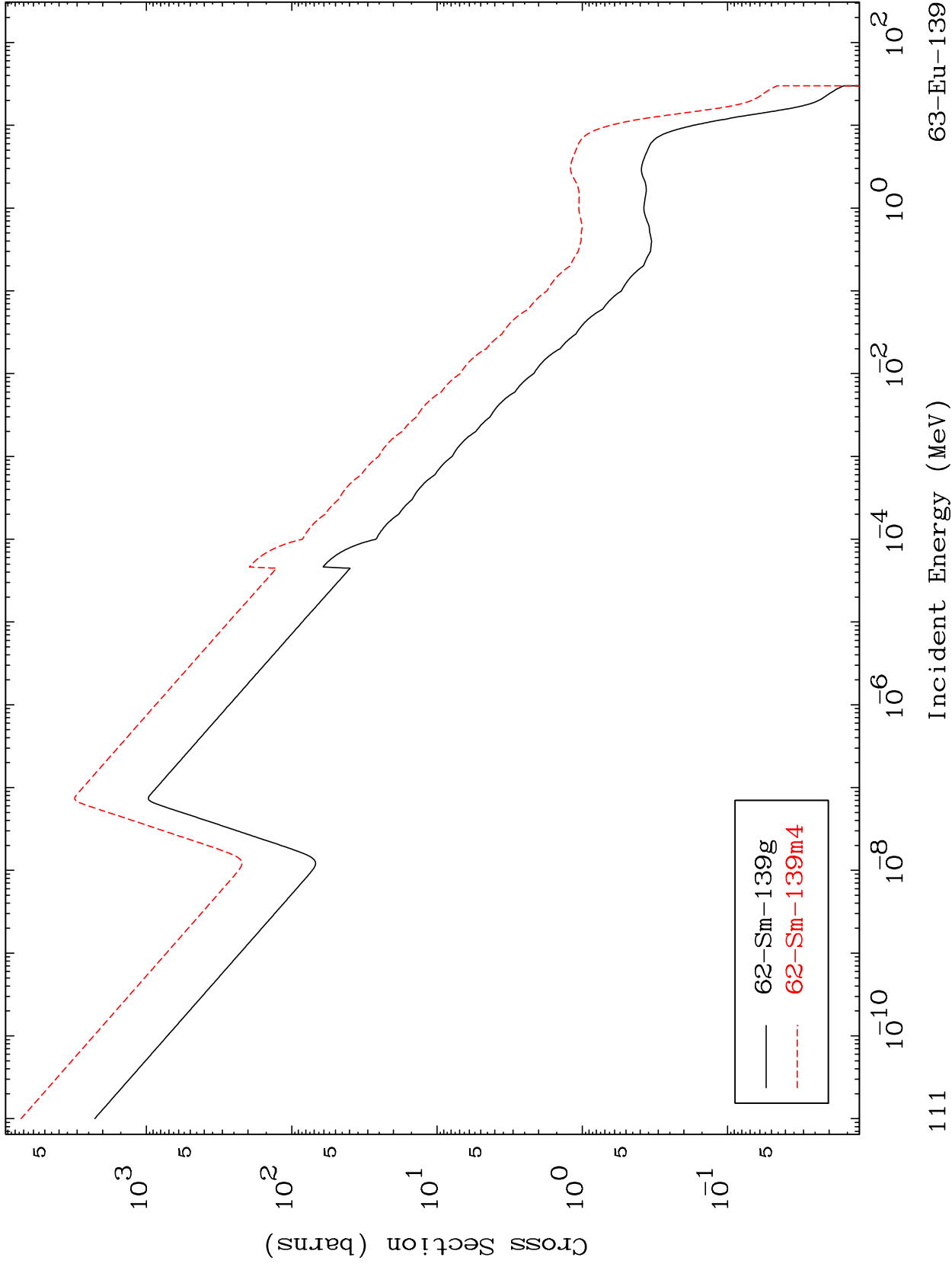
Incident Energy (MeV)

63-Eu-139

MAT 6289

63-Eu-139

(n,p)
Radionuclide Production Cross Section

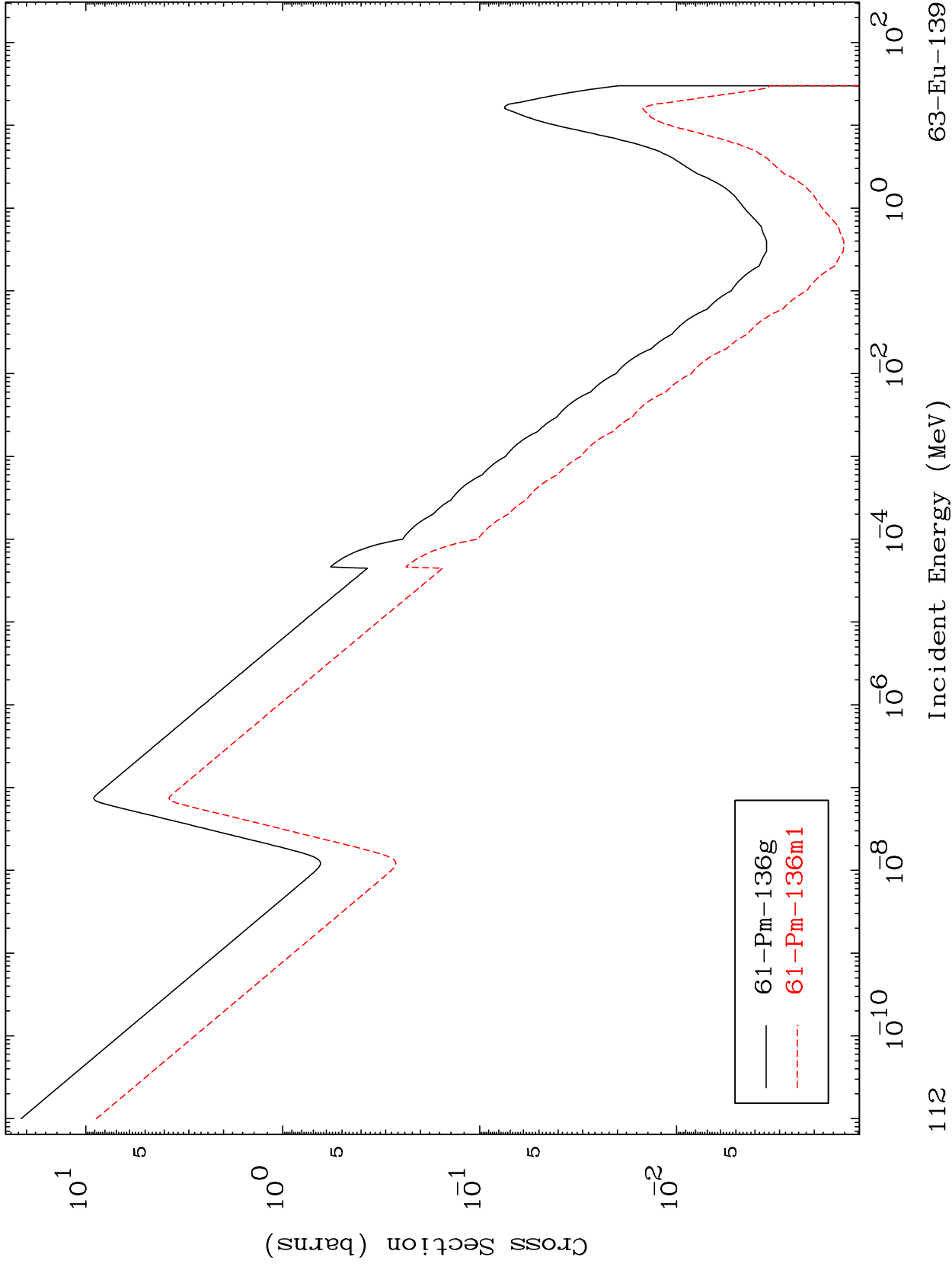


111

MAT 6289

63-Eu-139

(n, α)
Radionuclide Production Cross Section

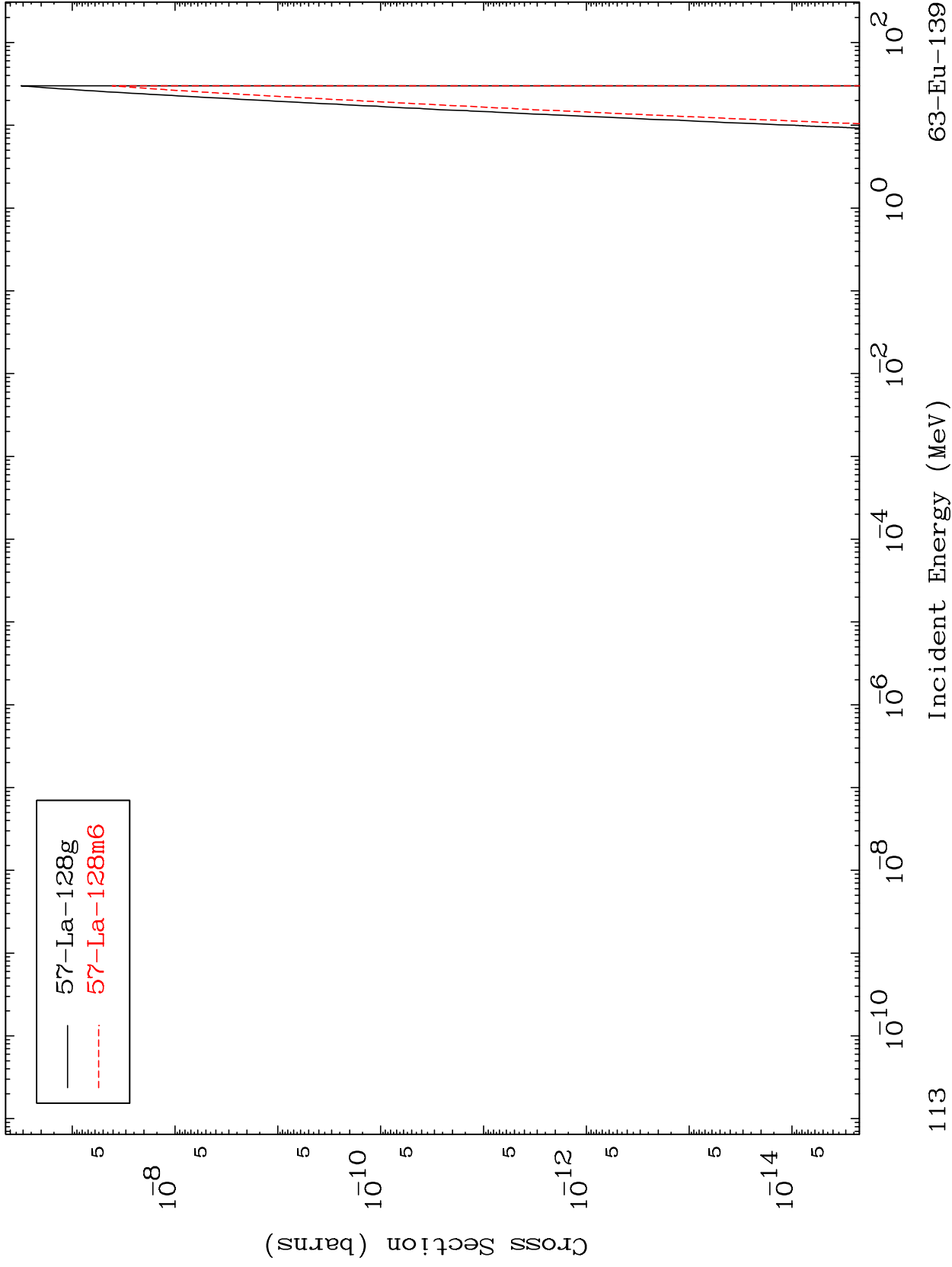


MAT 6289

(n, 3 α)

63-Eu-139

Radionuclide Production Cross Section

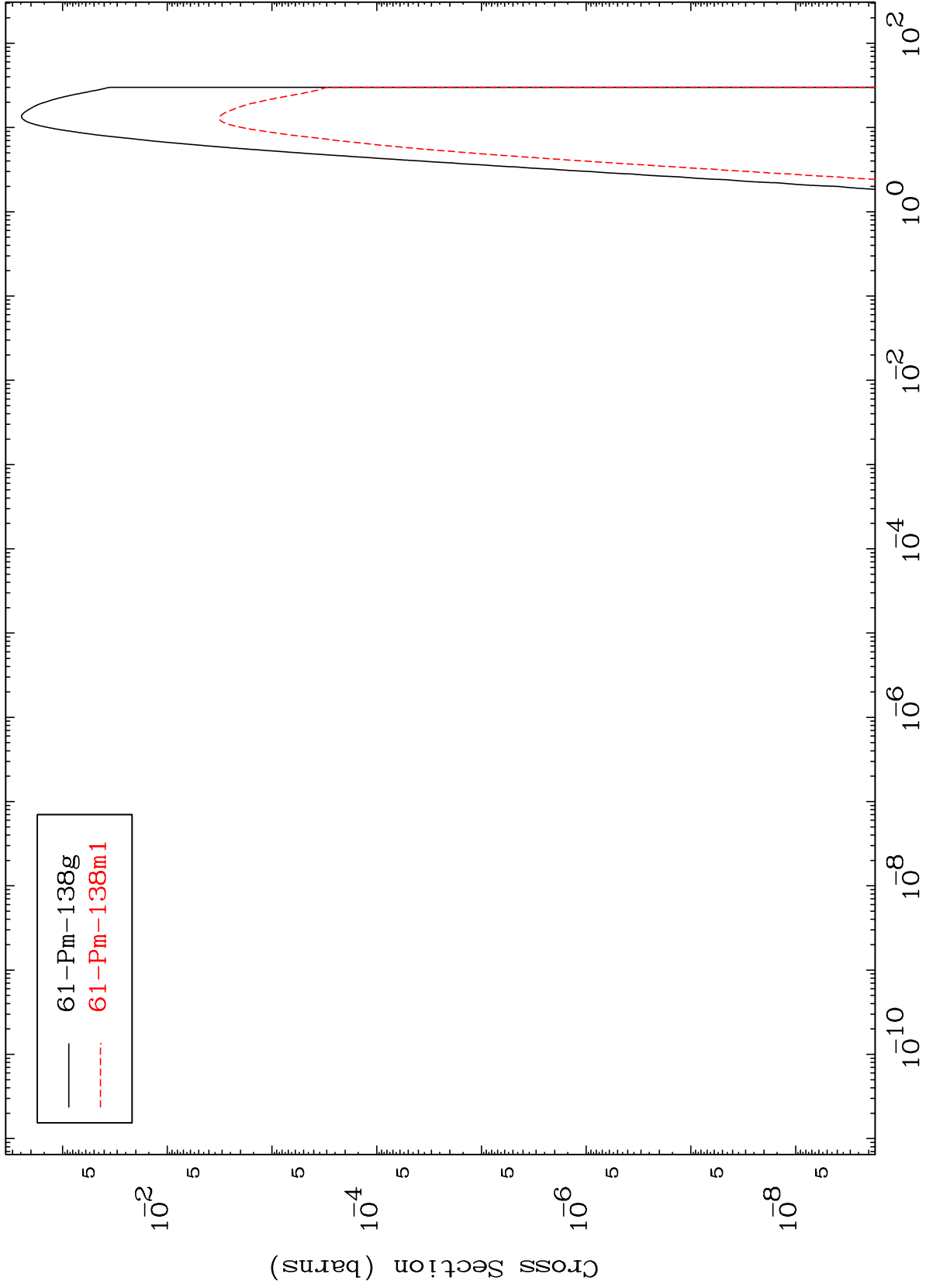


MAT 6289

(n,2p)

63-Eu-139

Radionuclide Production Cross Section



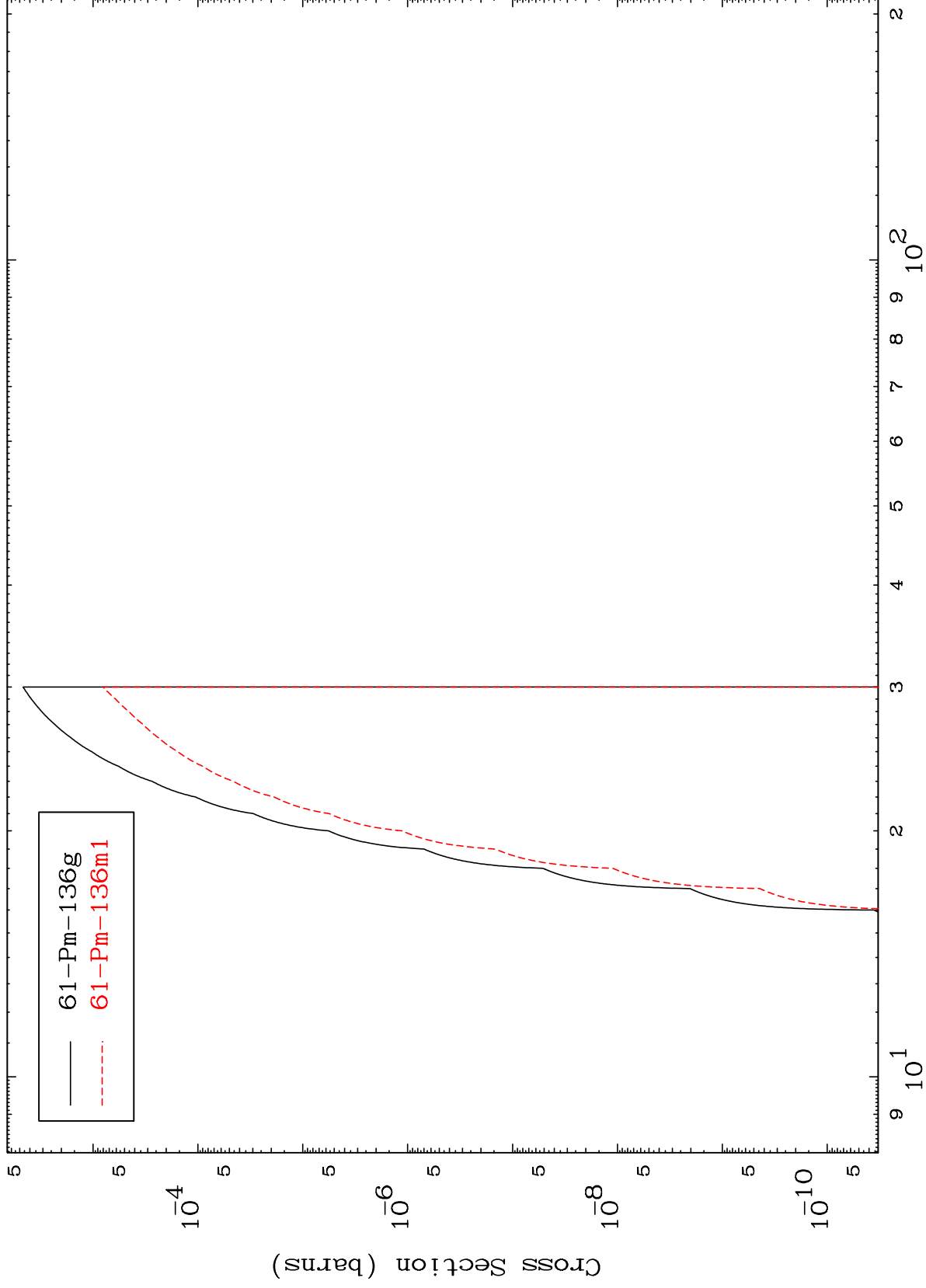
61-Pm-138g
61-Pm-138m1

MAT 6289

(n,p) t

63-Eu-139

Radionuclide Production Cross Section



115

Incident Energy (MeV)

63-Eu-139