

Program EVALPLOT
(Version 2017-1)

by

Dermott E. Cullen
(Present Contact Information)

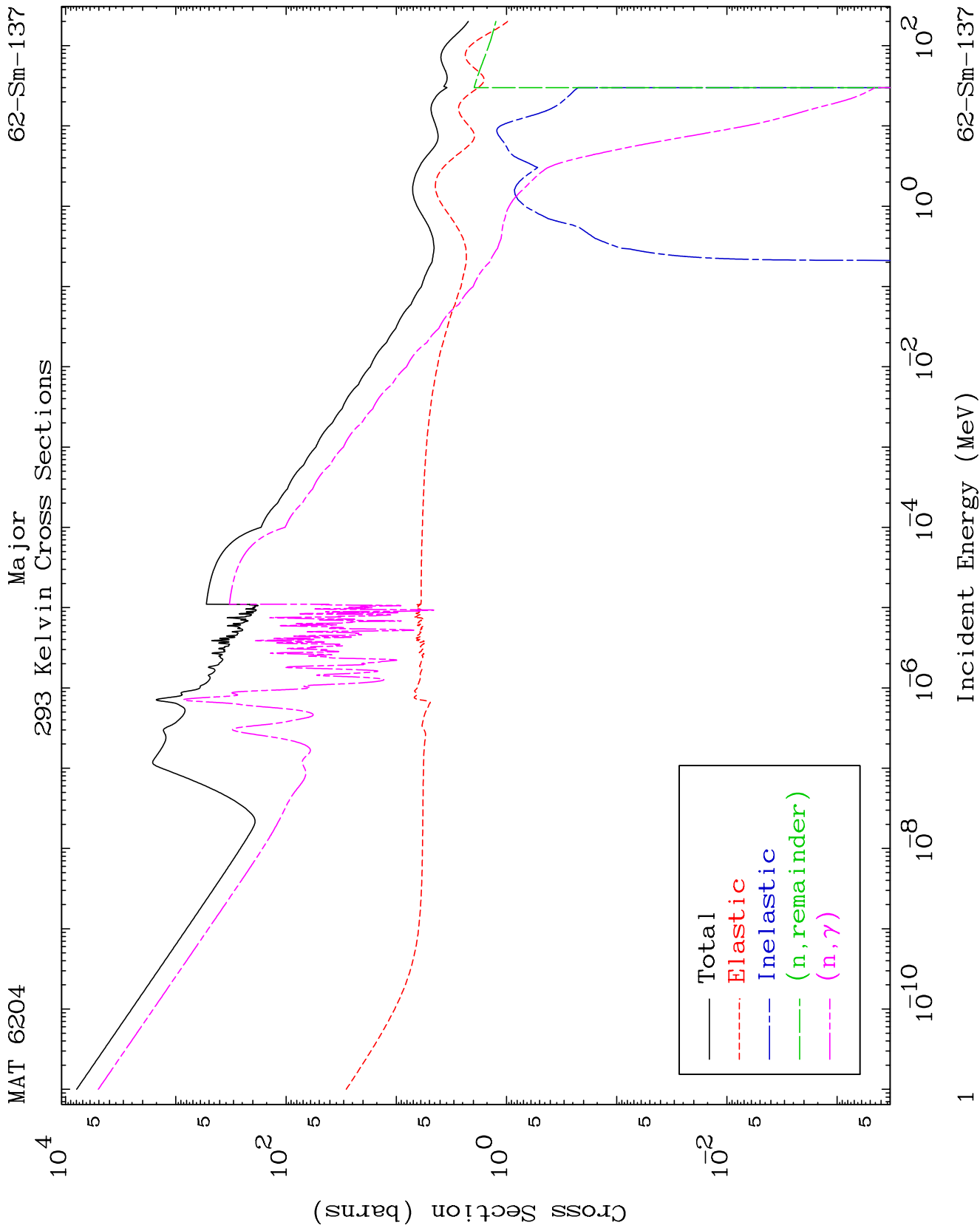
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Web:redcullen1.net/HOMEPAGE.NEW

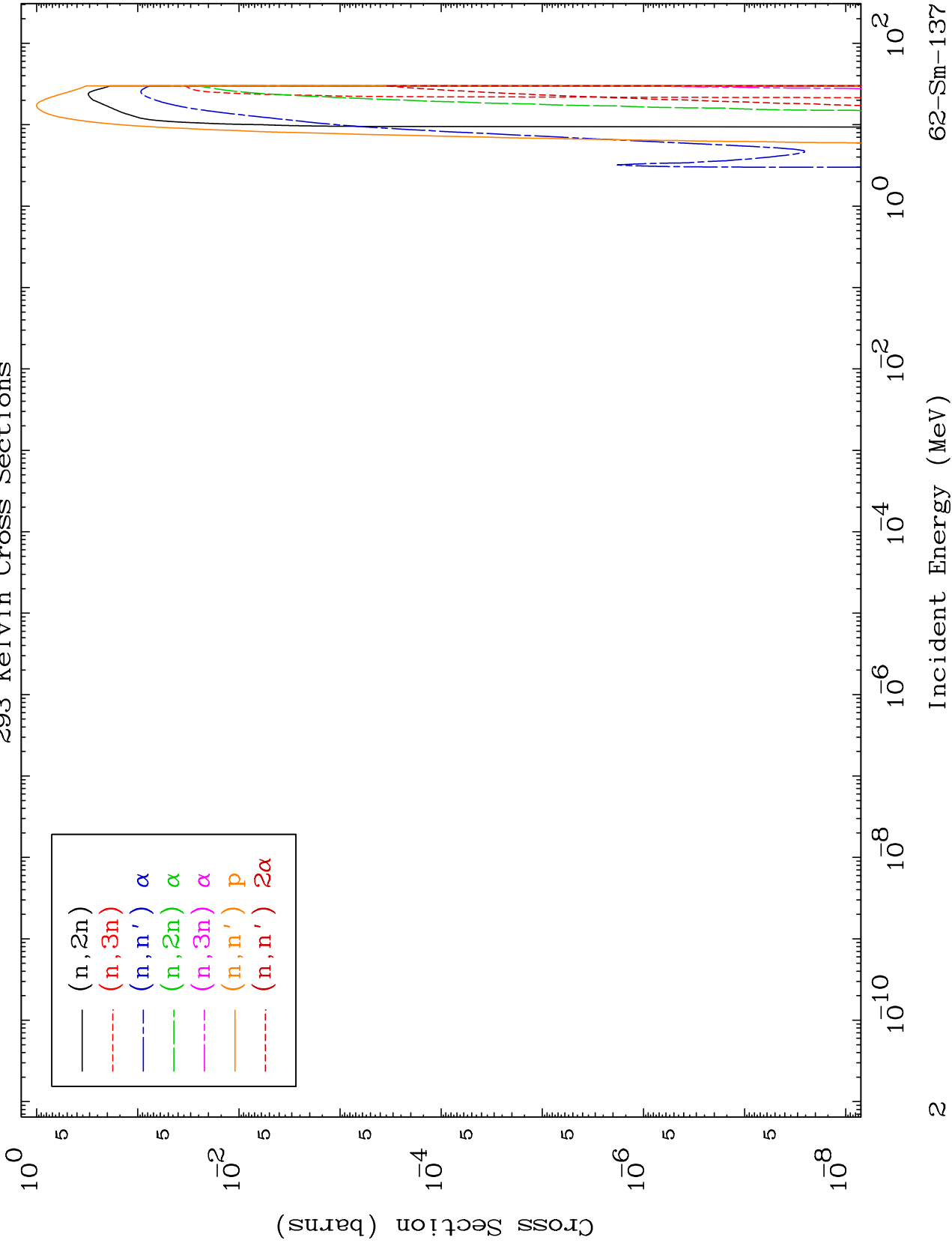
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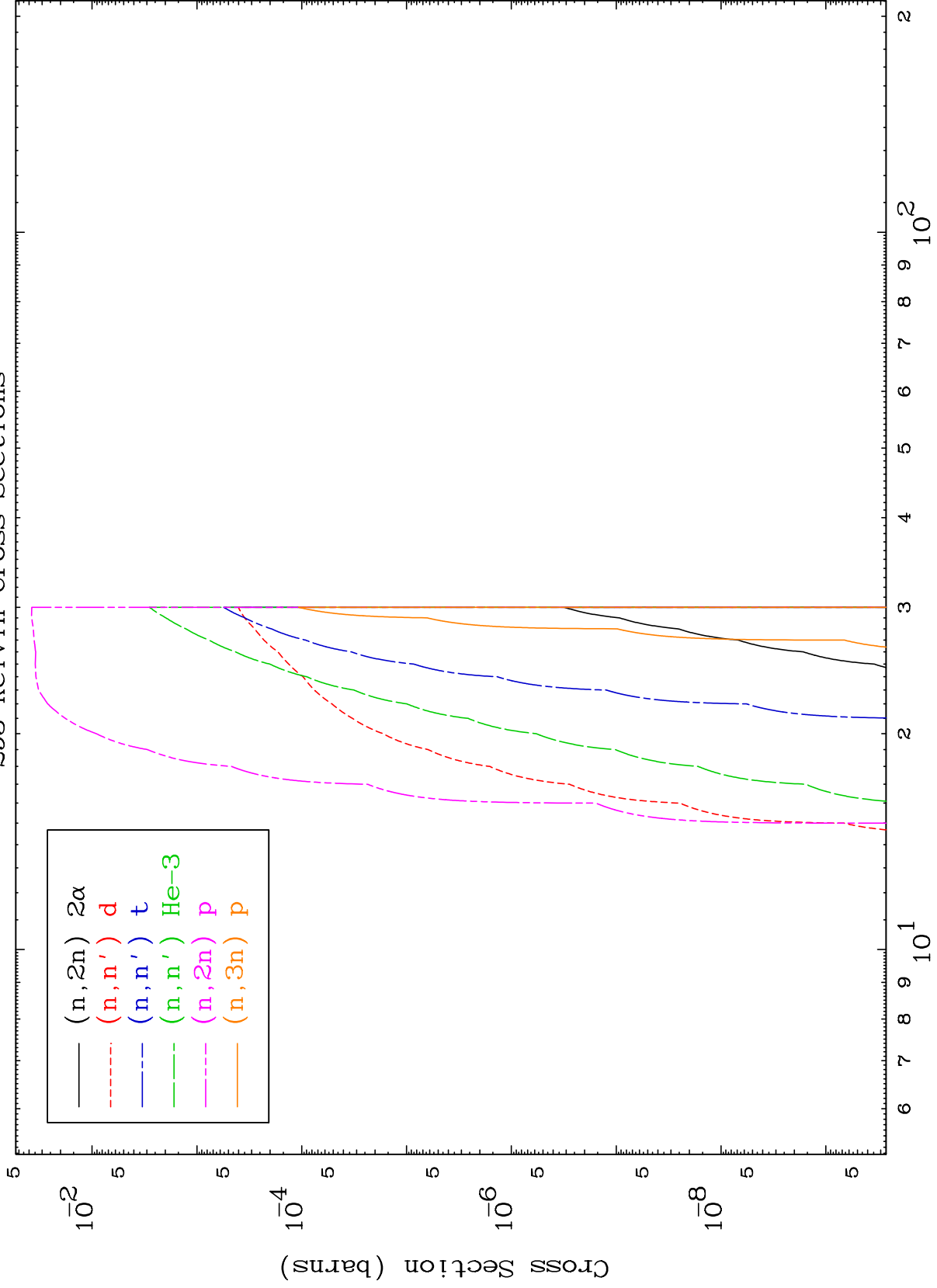


MAT 6204

Neutron Production
293 Kelvin Cross Sections

62-Sm-137

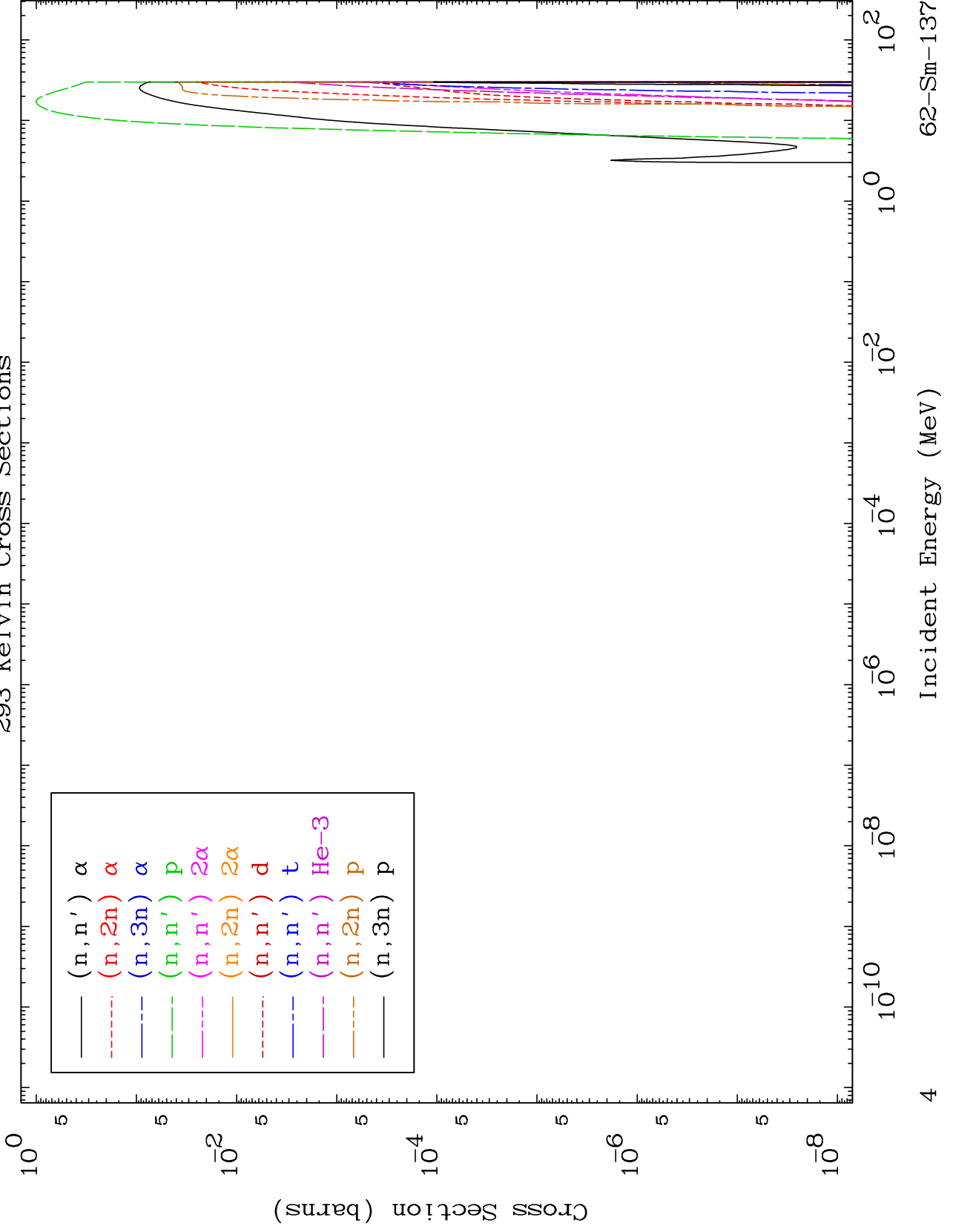




MAT 6204

Charged Particle
293 Kelvin Cross Sections

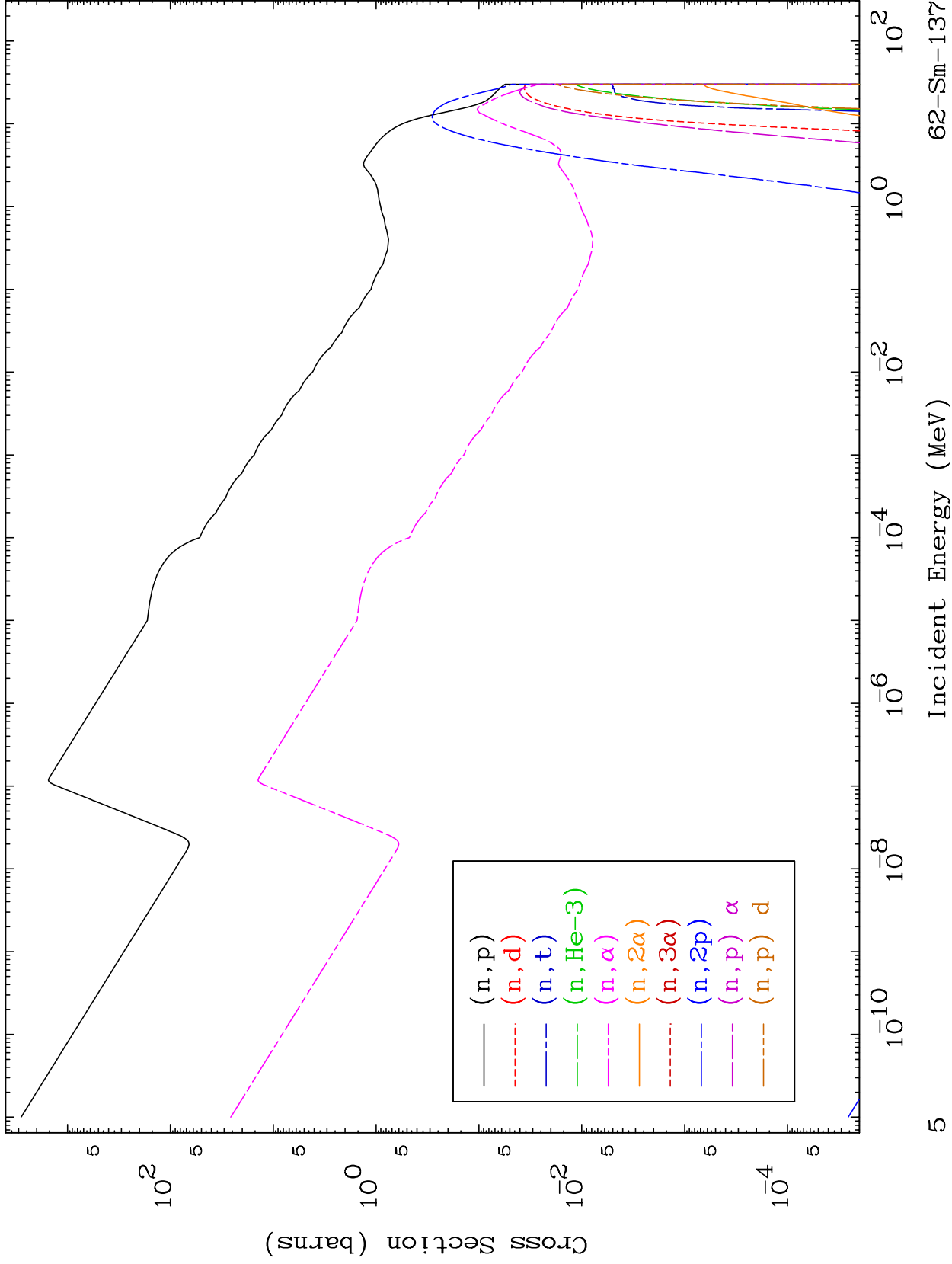
62-Sm-137



MAT 6204

Charged Particle
293 Kelvin Cross Sections

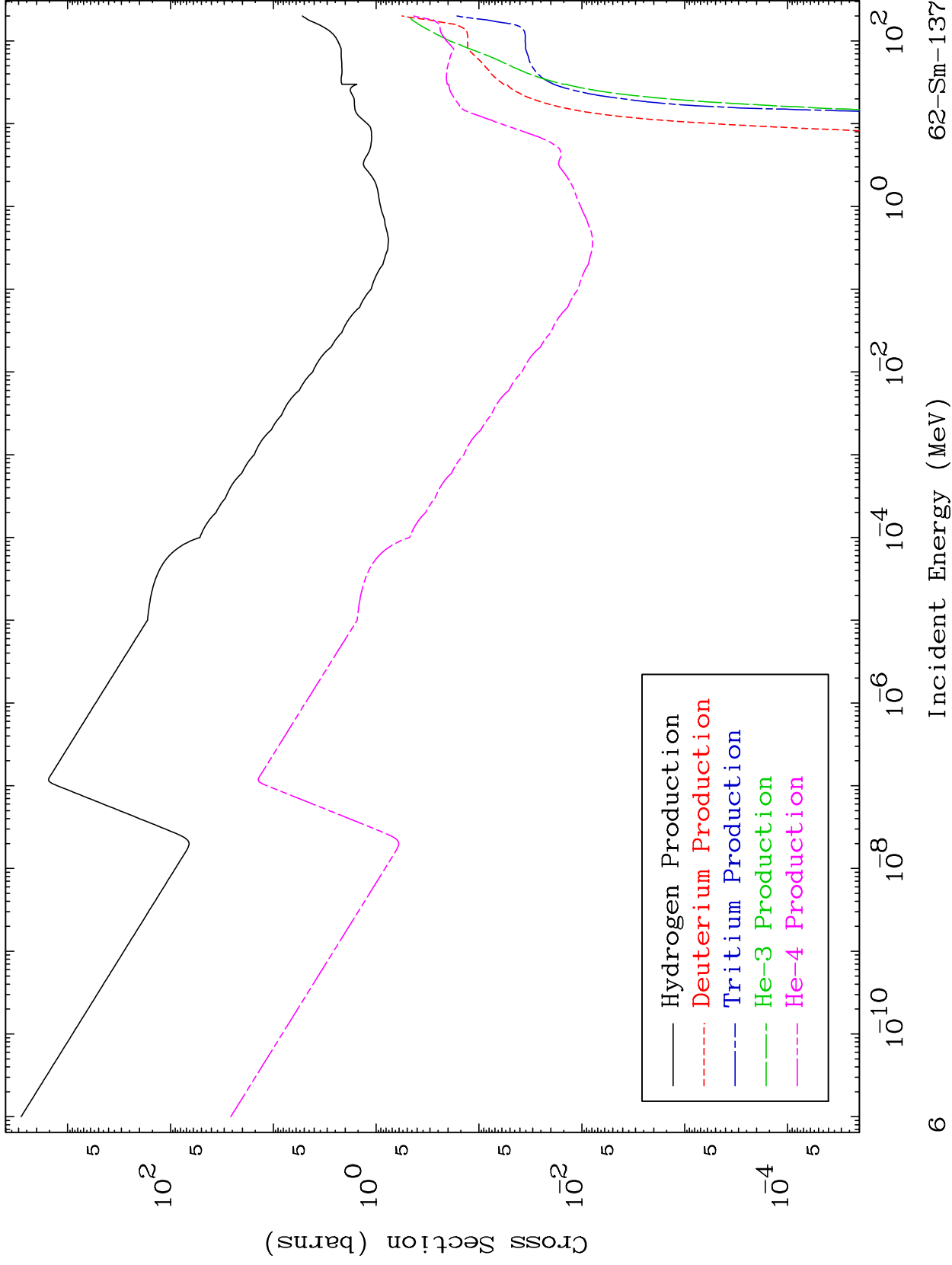
62-Sm-137



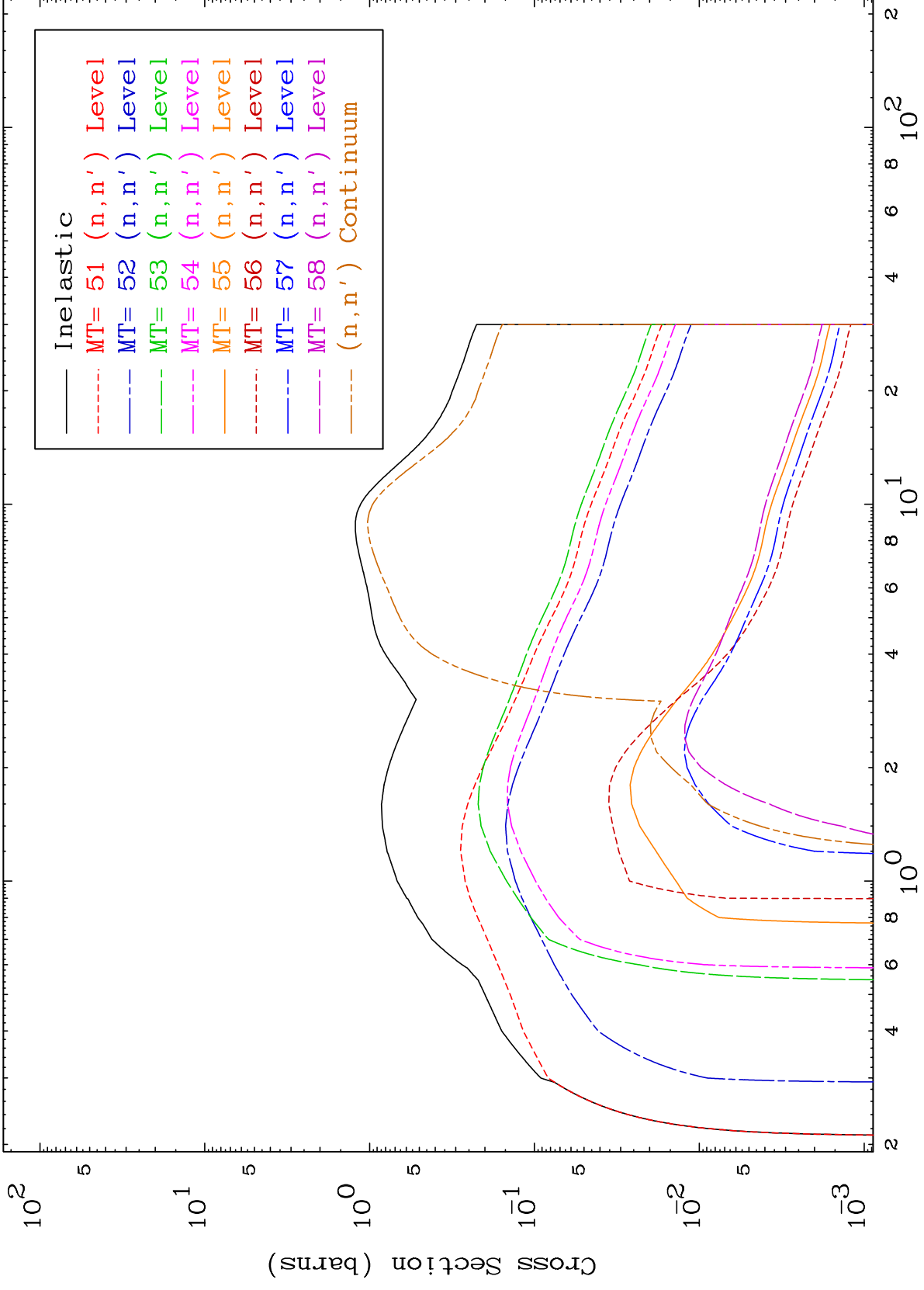
MAT 6204

Particle Production
293 Kelvin Cross Sections

62-Sm-137



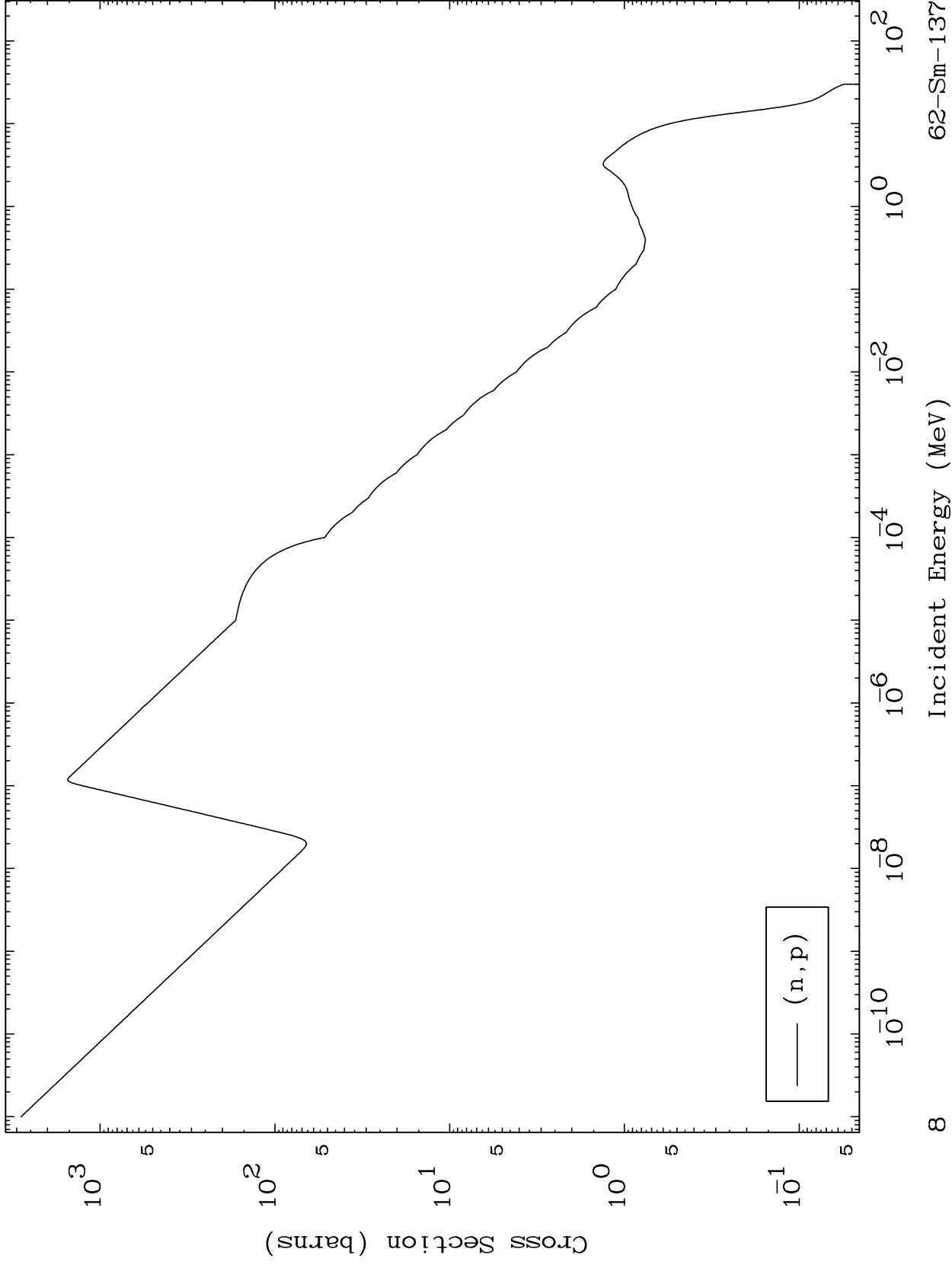
293 Kelvin Cross Sections



MAT 6204

(n,p) Levels
293 Kelvin Cross Sections

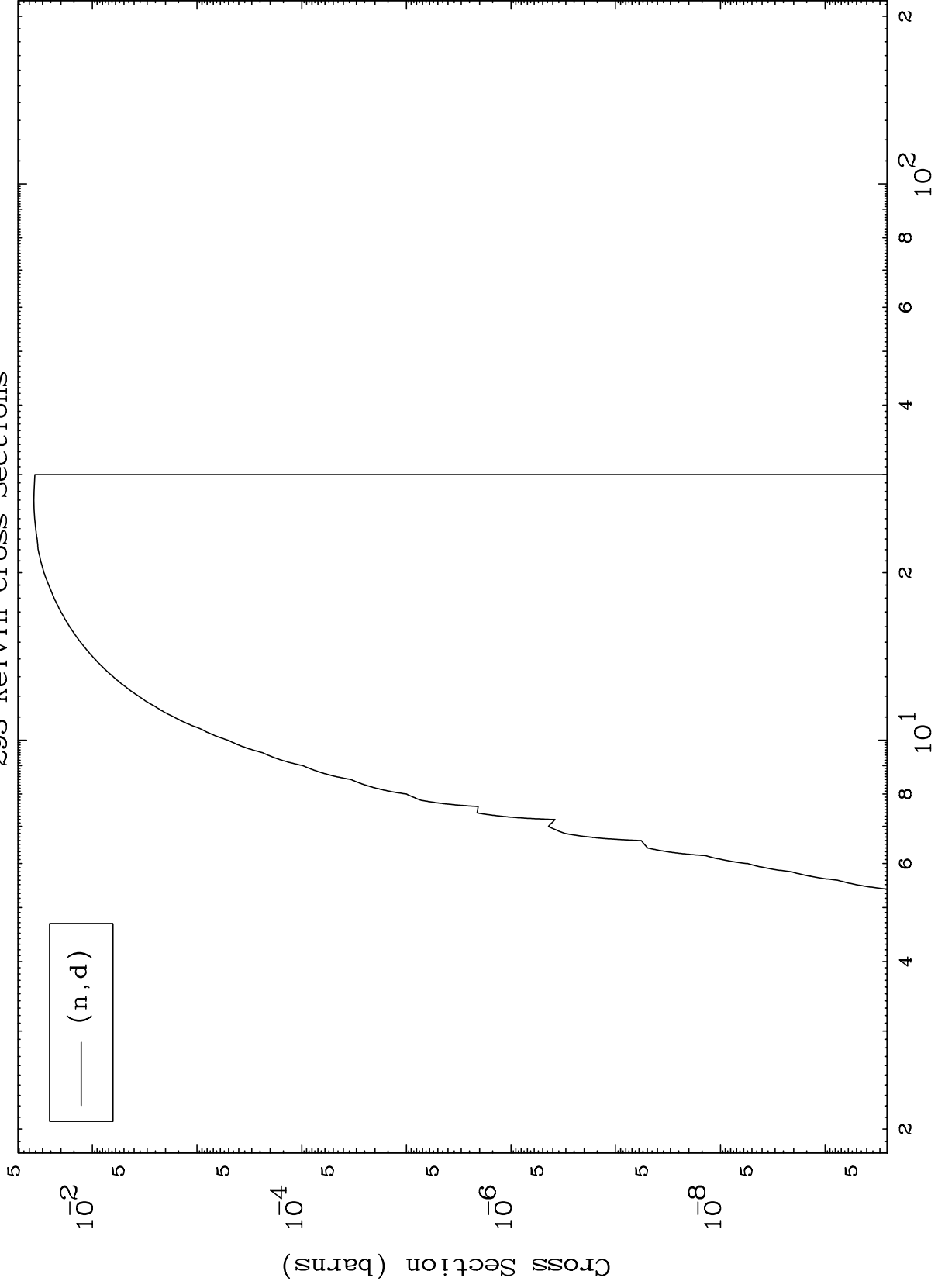
62-Sm-137



MAT 6204

(n,d) Levels
293 Kelvin Cross Sections

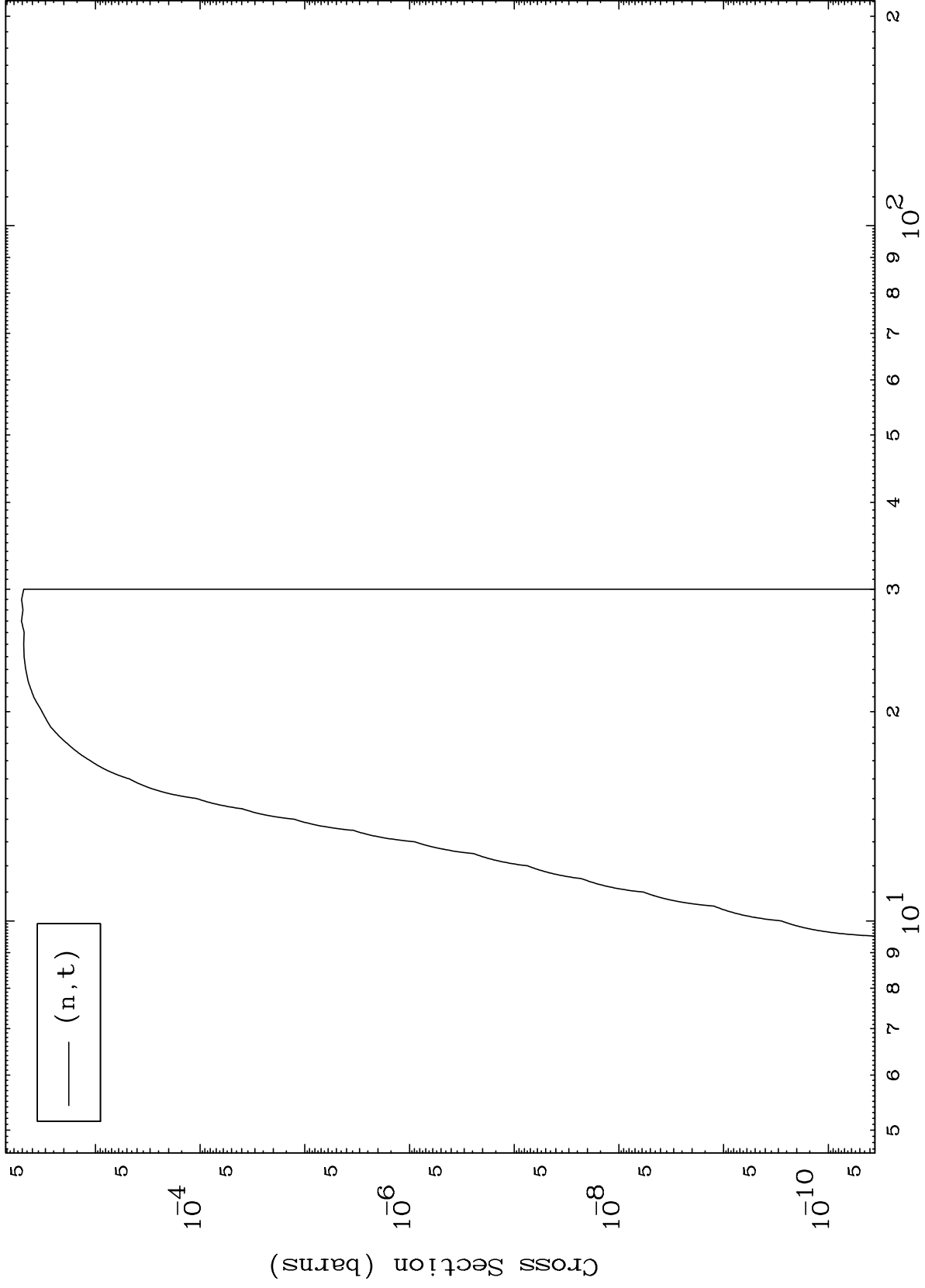
62-Sm-137



MAT 6204

(n,t) Levels
293 Kelvin Cross Sections

62-Sm-137



10

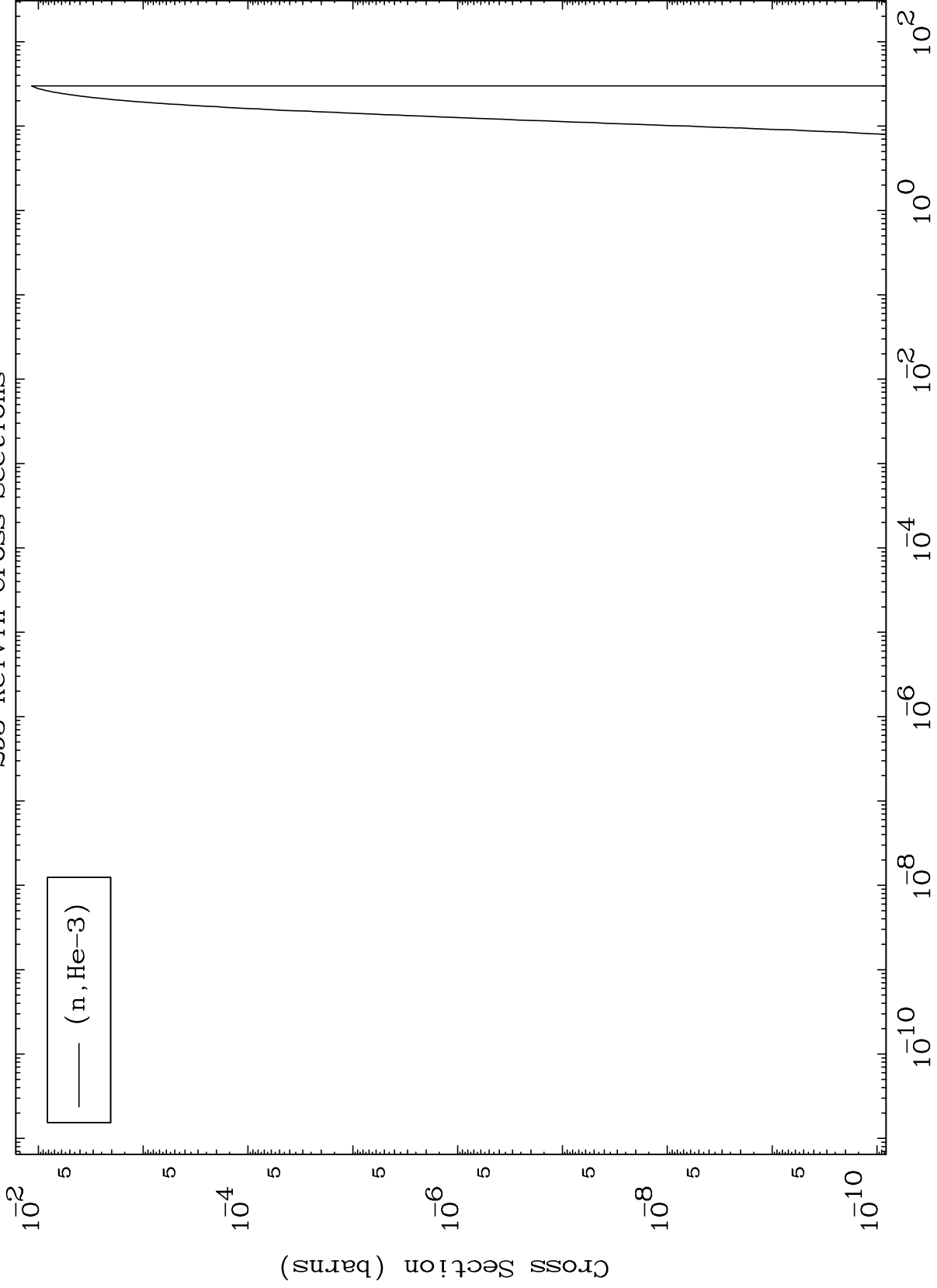
Incident Energy (MeV)

62-Sm-137

MAT 6204

(n,He3) Levels
293 Kelvin Cross Sections

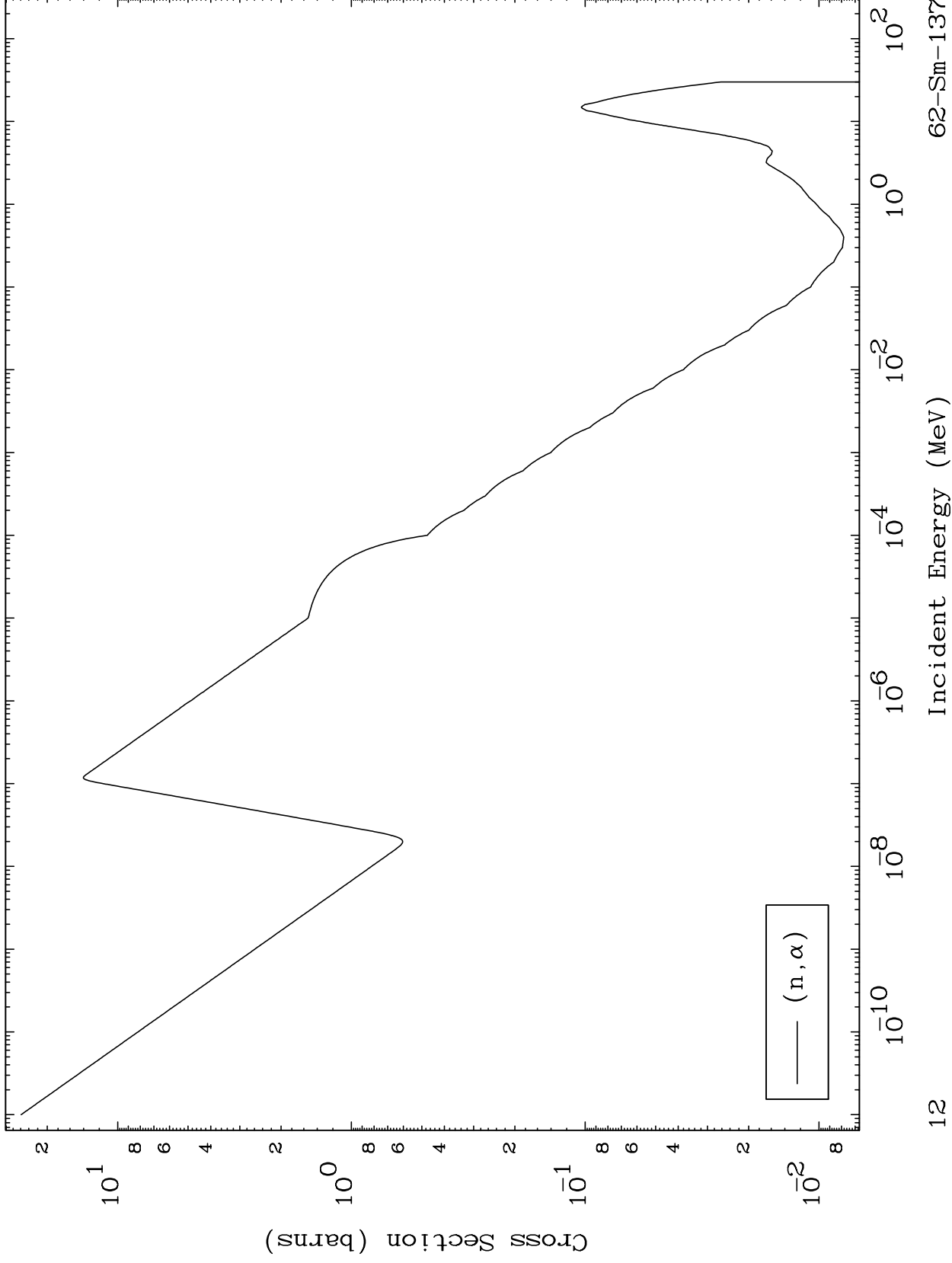
62-Sm-137

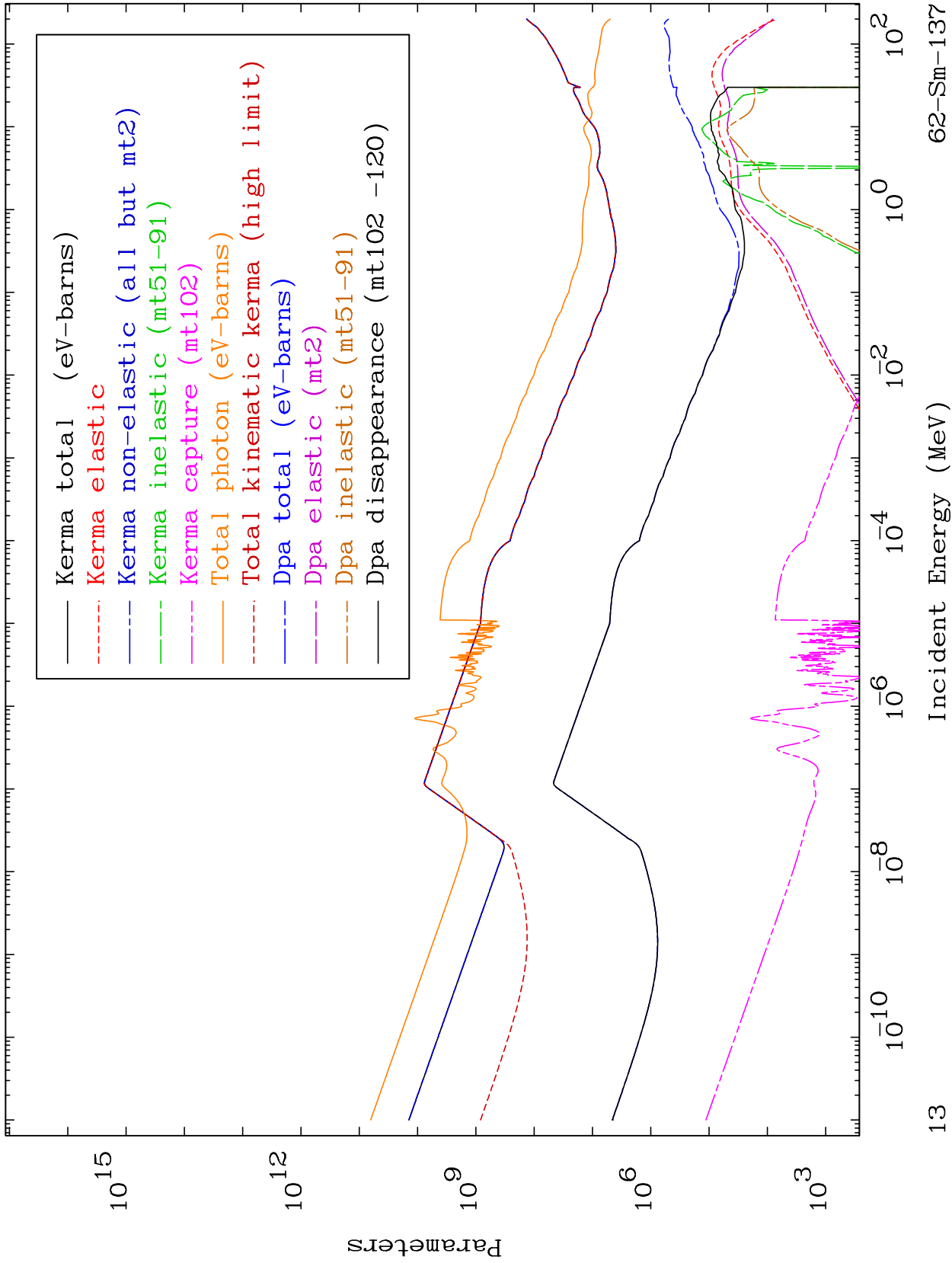


MAT 6204

(n,α) Levels
293 Kelvin Cross Sections

62-Sm-137

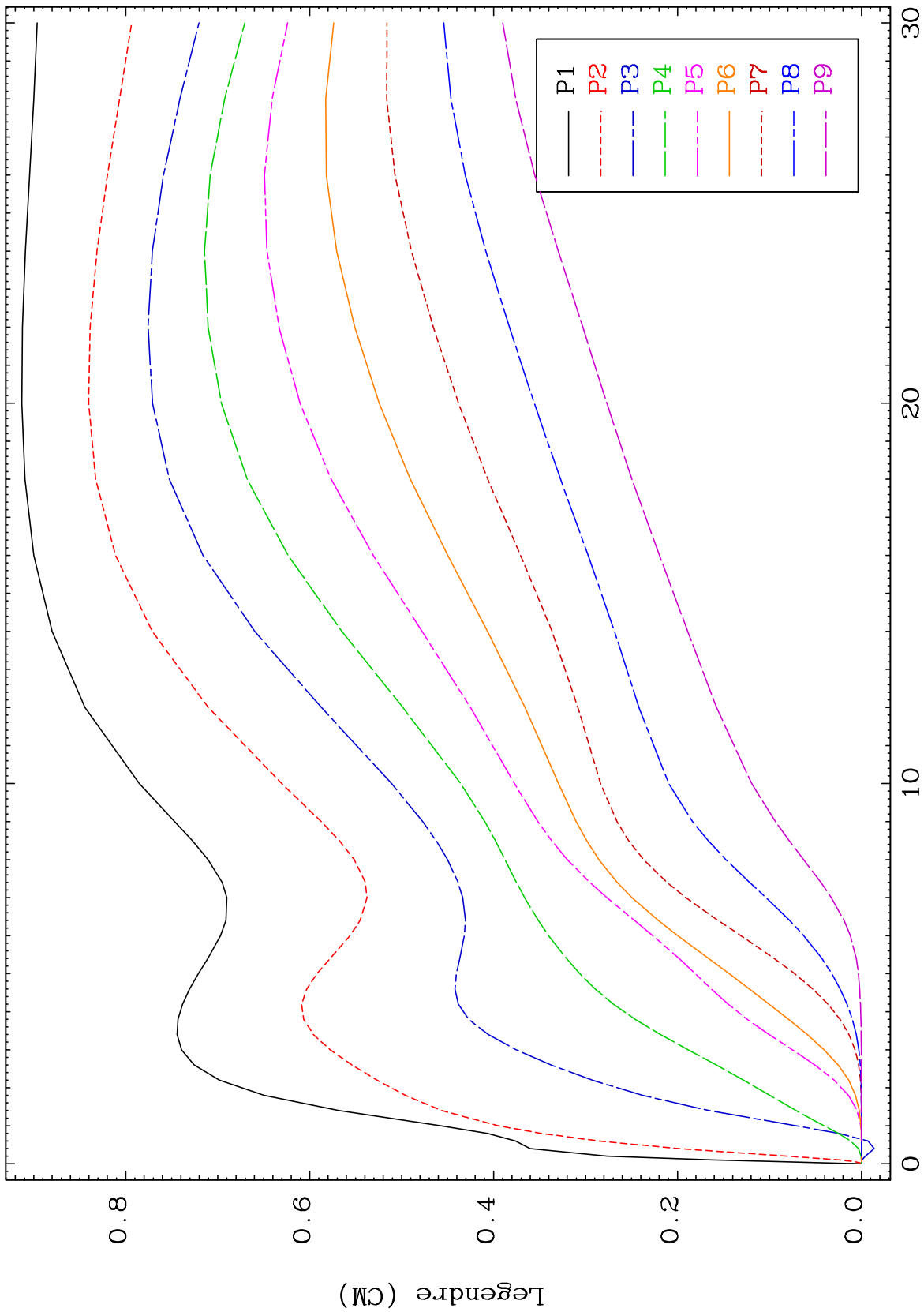




MAT 6204

Elastic Legendre Coefficients

62-Sm-137



14

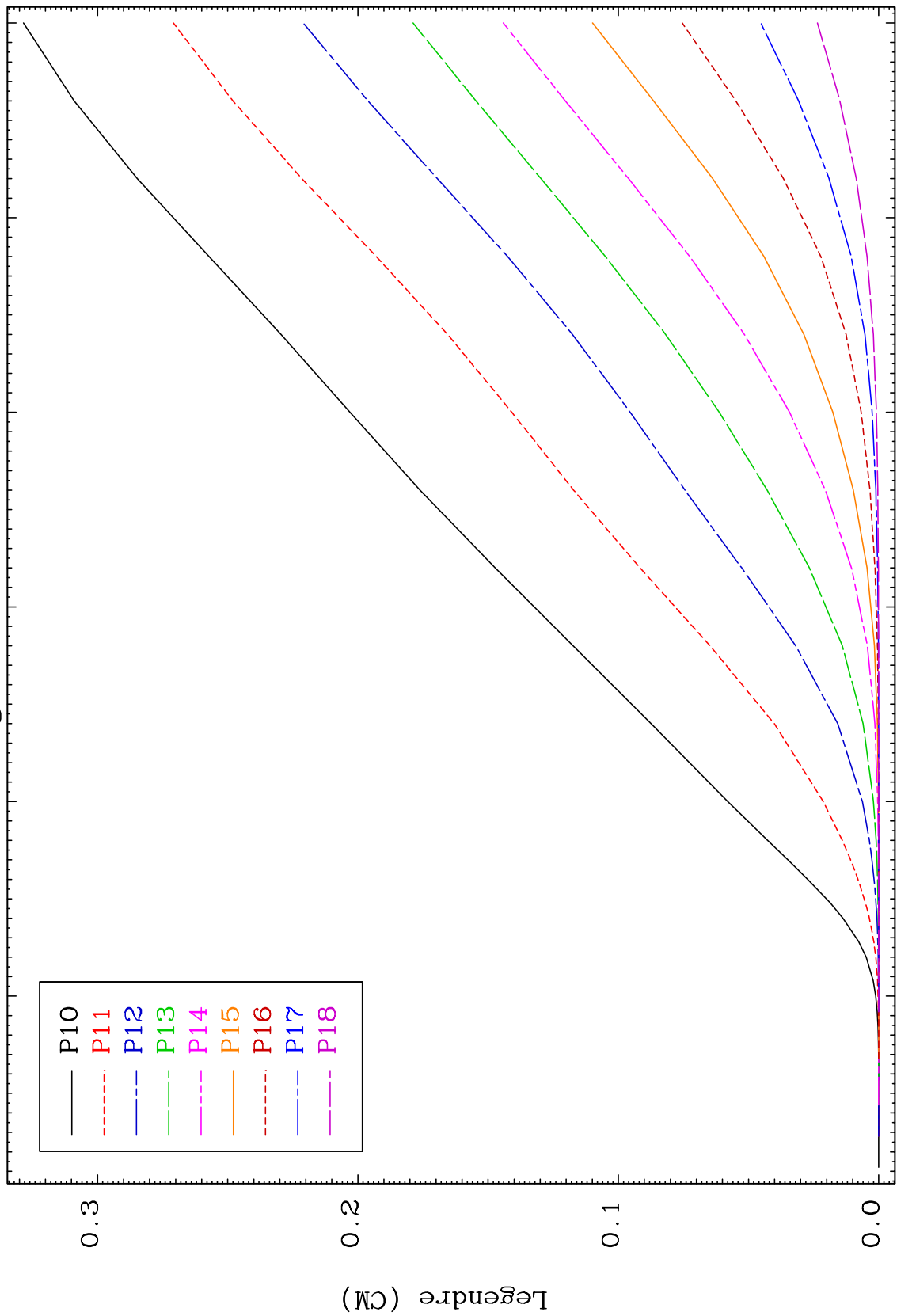
Incident Energy (MeV)

62-Sm-137

MAT 6204

Elastic Legendre Coefficients

62-Sm-137



15

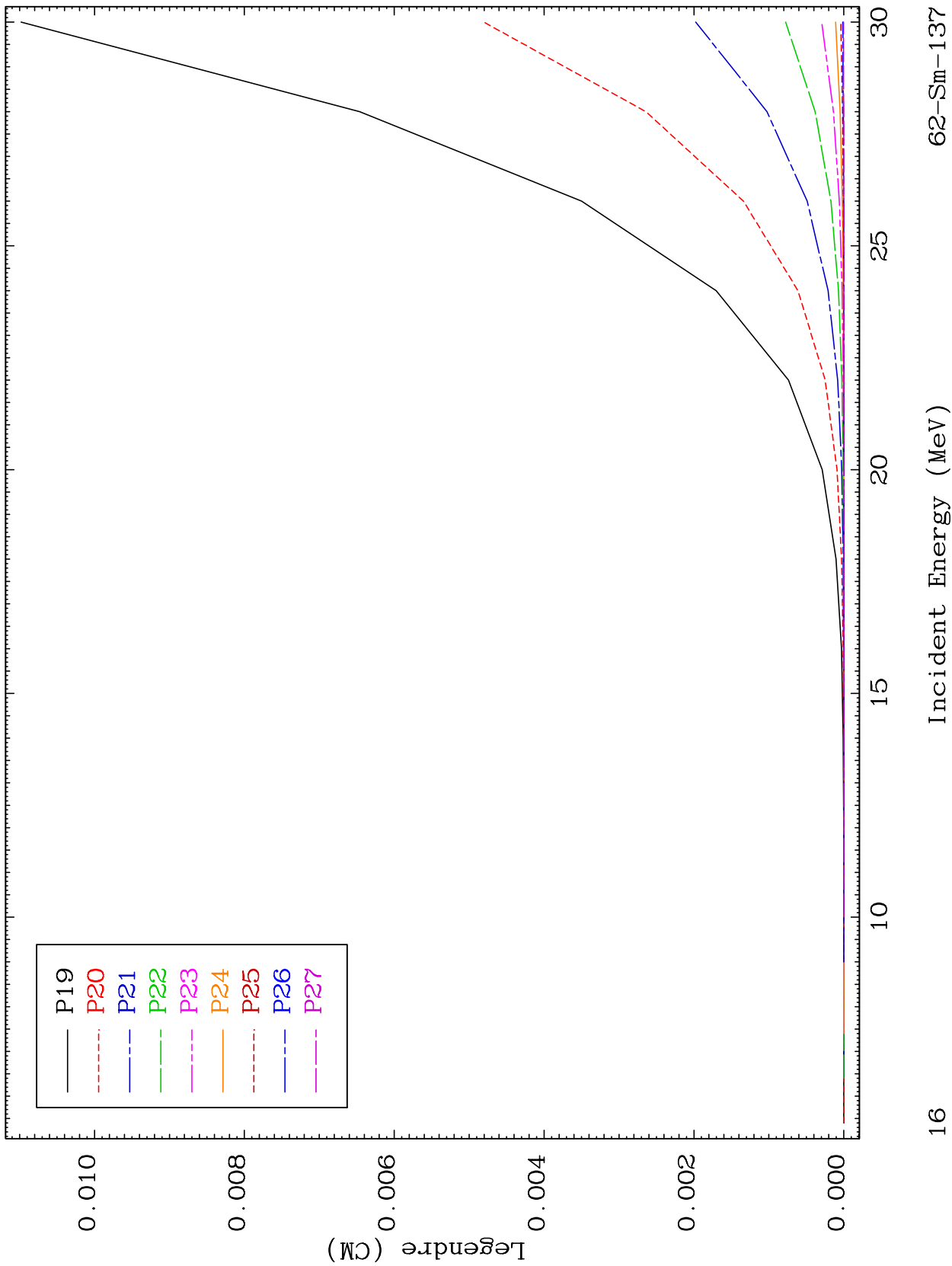
Incident Energy (MeV)

62-Sm-137

MAT 6204

Elastic Legendre Coefficients

⁶²Sm-137



16

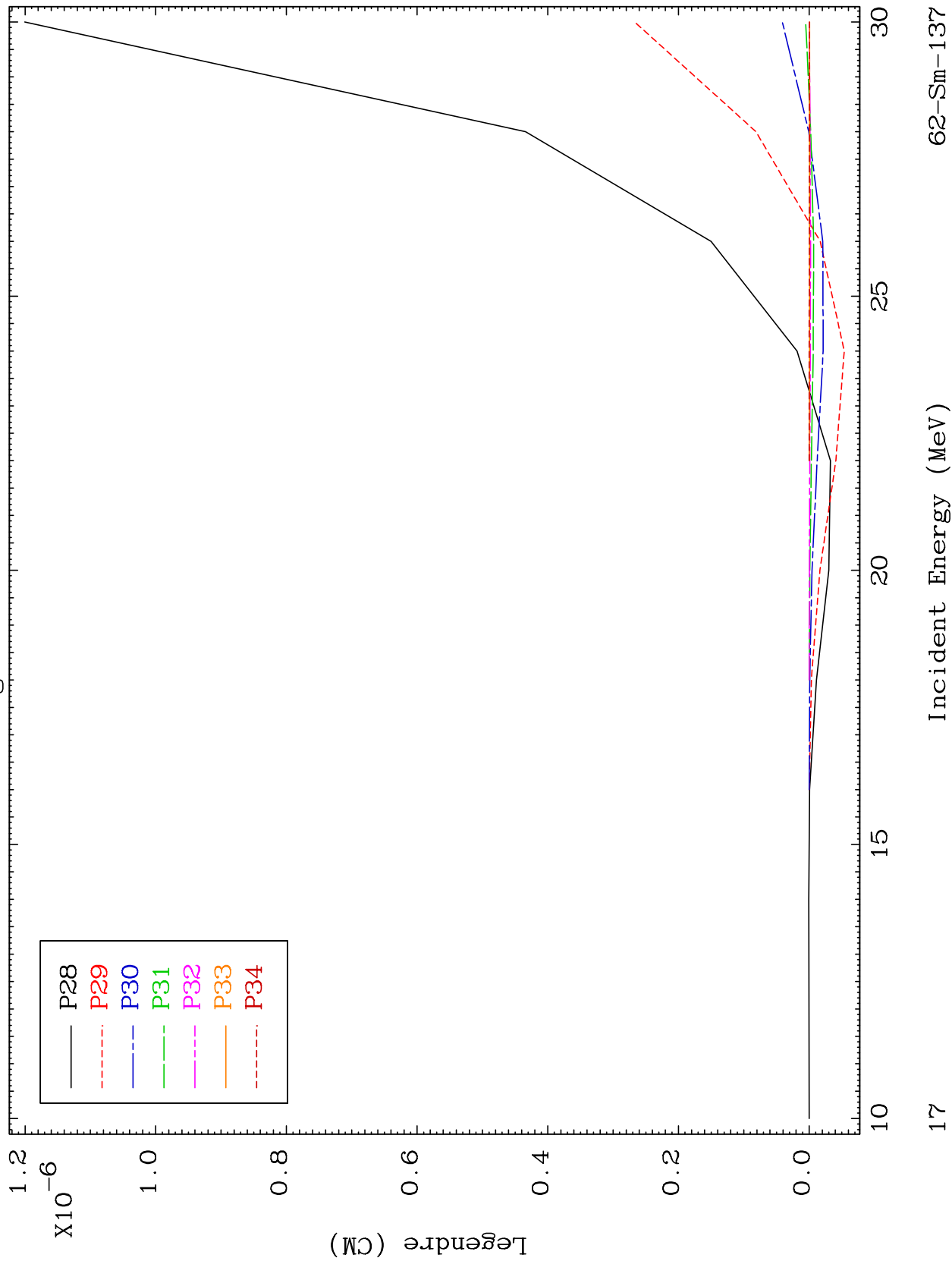
Incident Energy (MeV)

⁶²Sm-137

MAT 6204

Elastic Legendre Coefficients

⁶²Sm-137



17

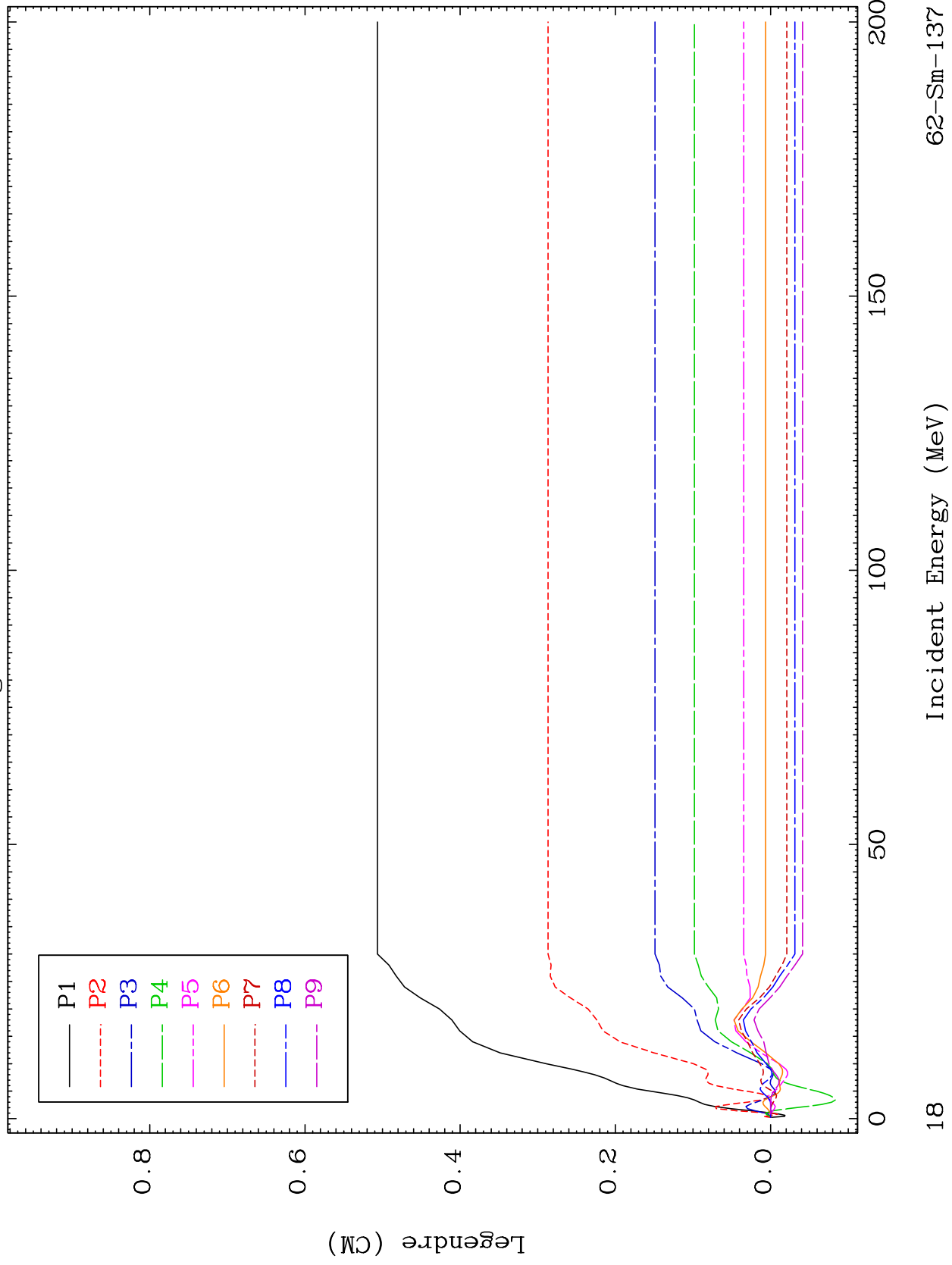
Incident Energy (MeV)

⁶²Sm-137

MAT 6204

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

62-Sm-137



62-Sm-137

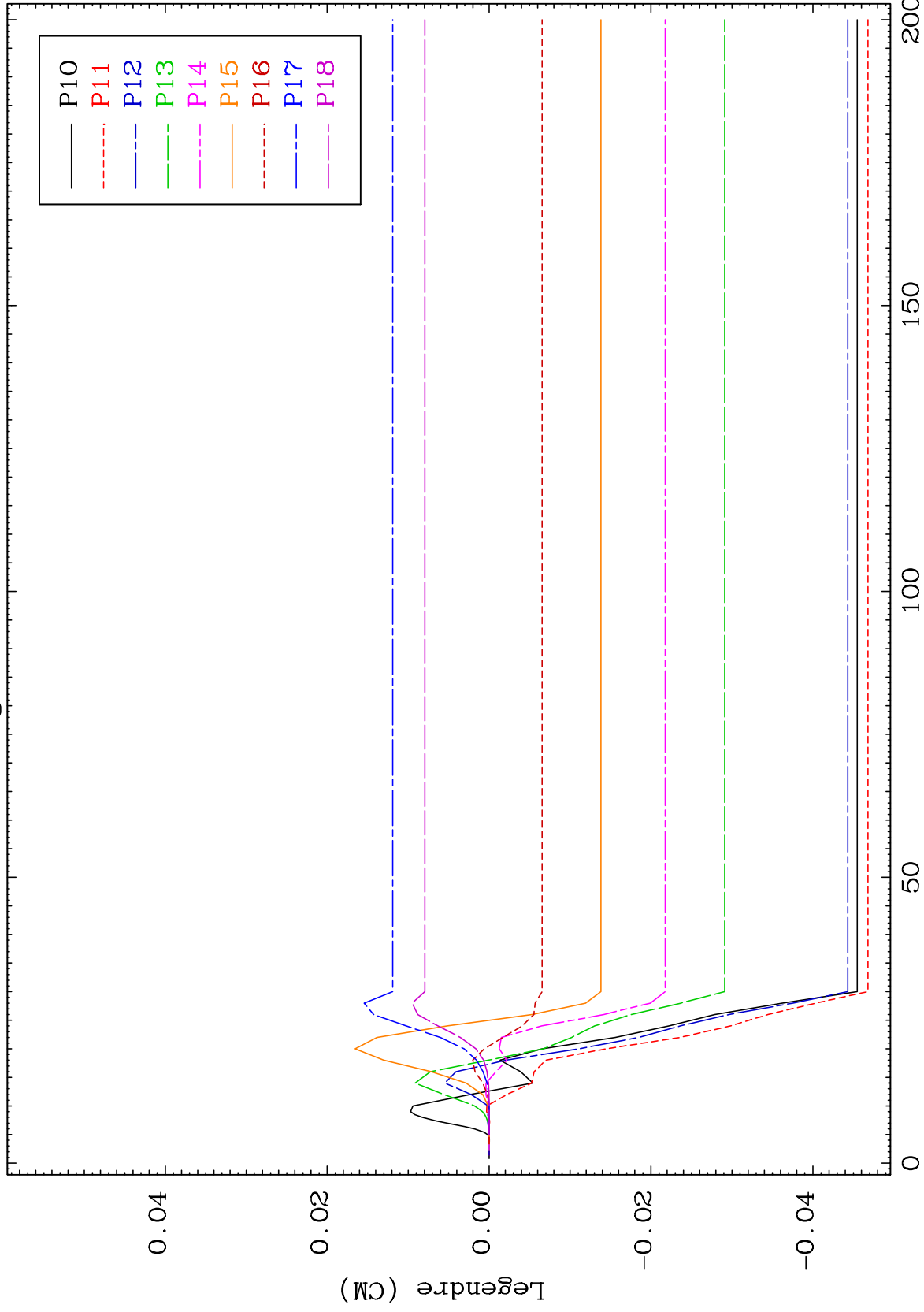
Incident Energy (MeV)

18

MAT 6204

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

62-Sm-137



19

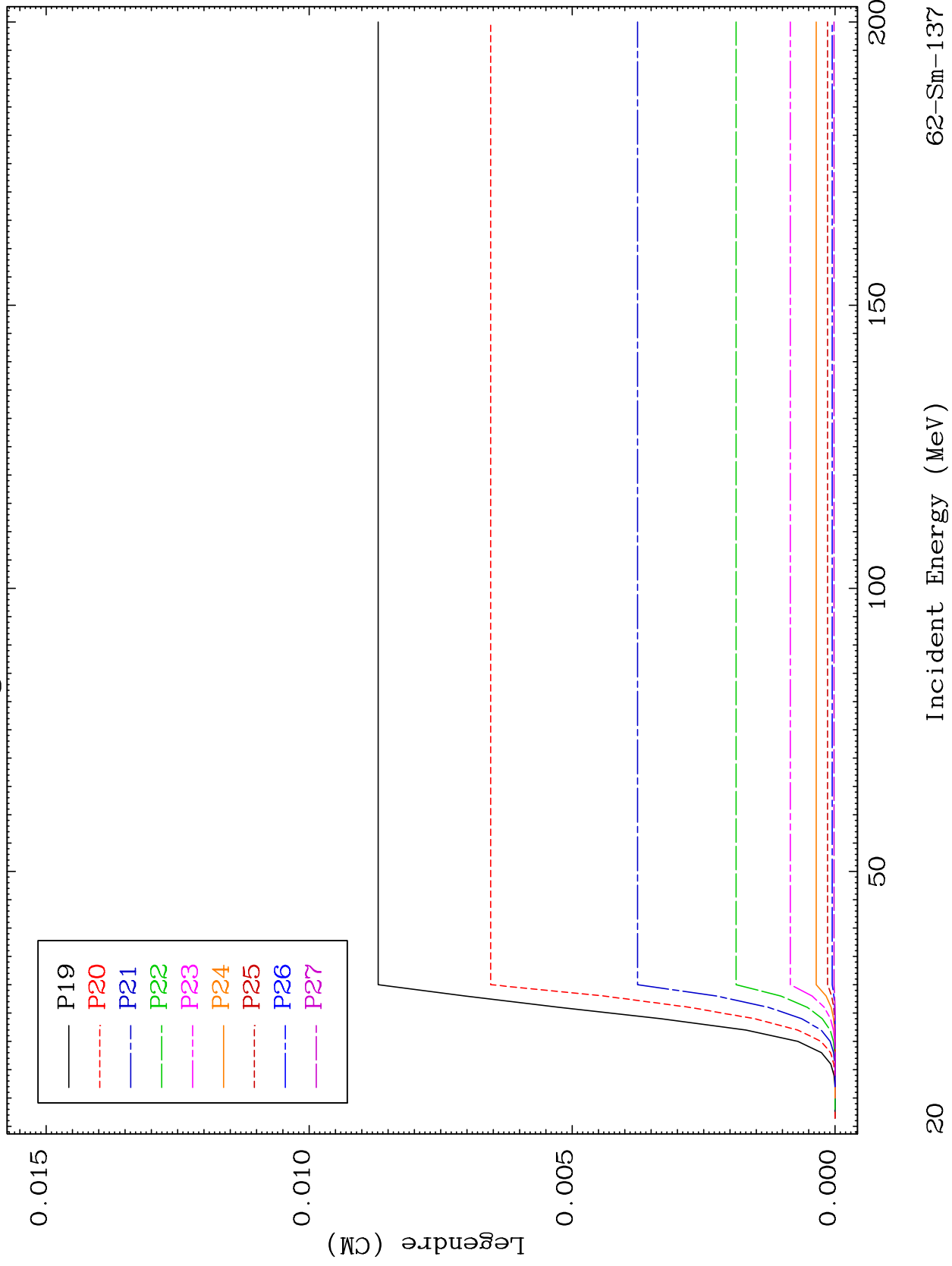
Incident Energy (MeV)

62-Sm-137

MAT 6204

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

62-Sm-137



62-Sm-137

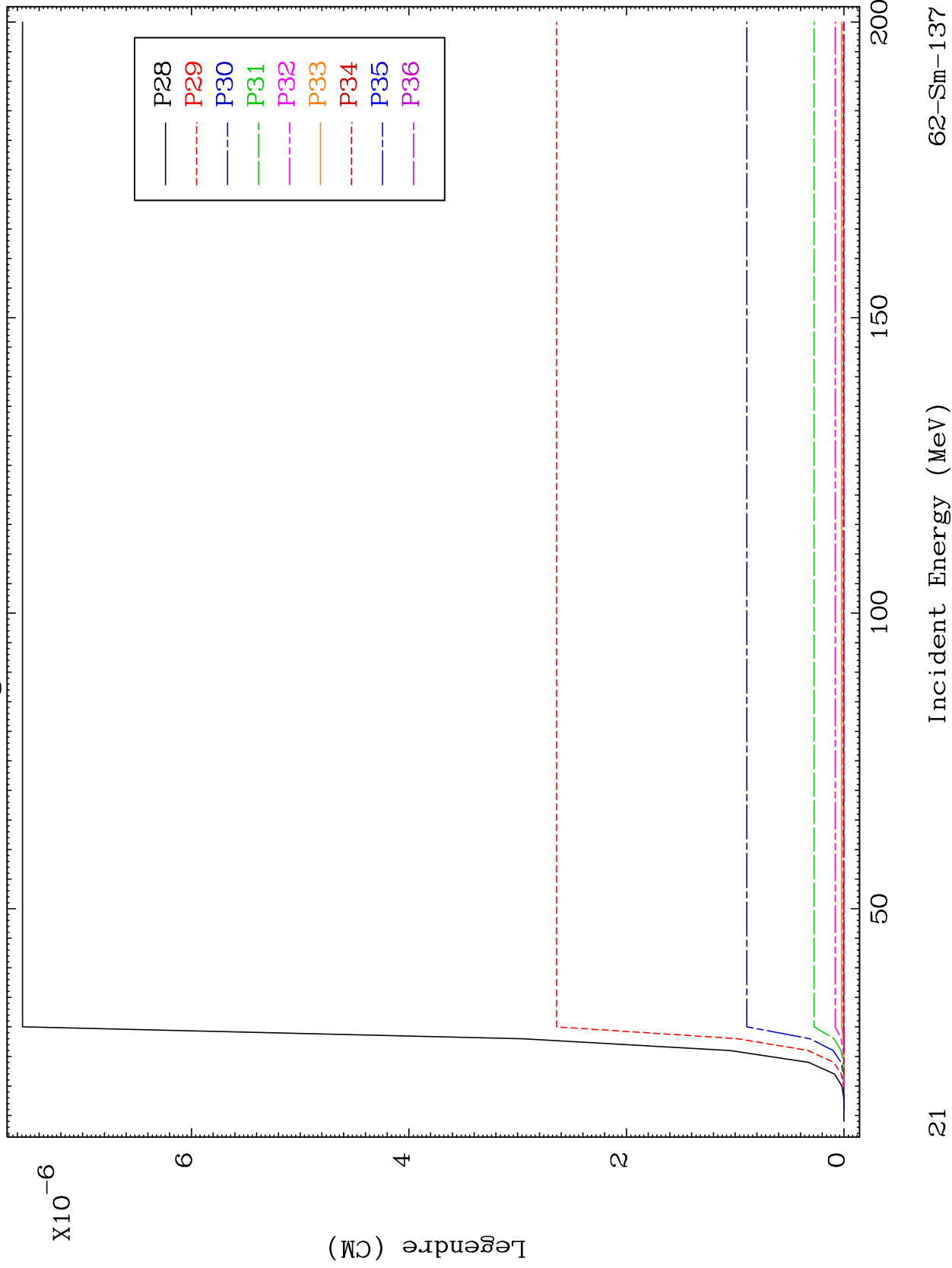
Incident Energy (MeV)

20

MAT 6204

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

62-Sm-137

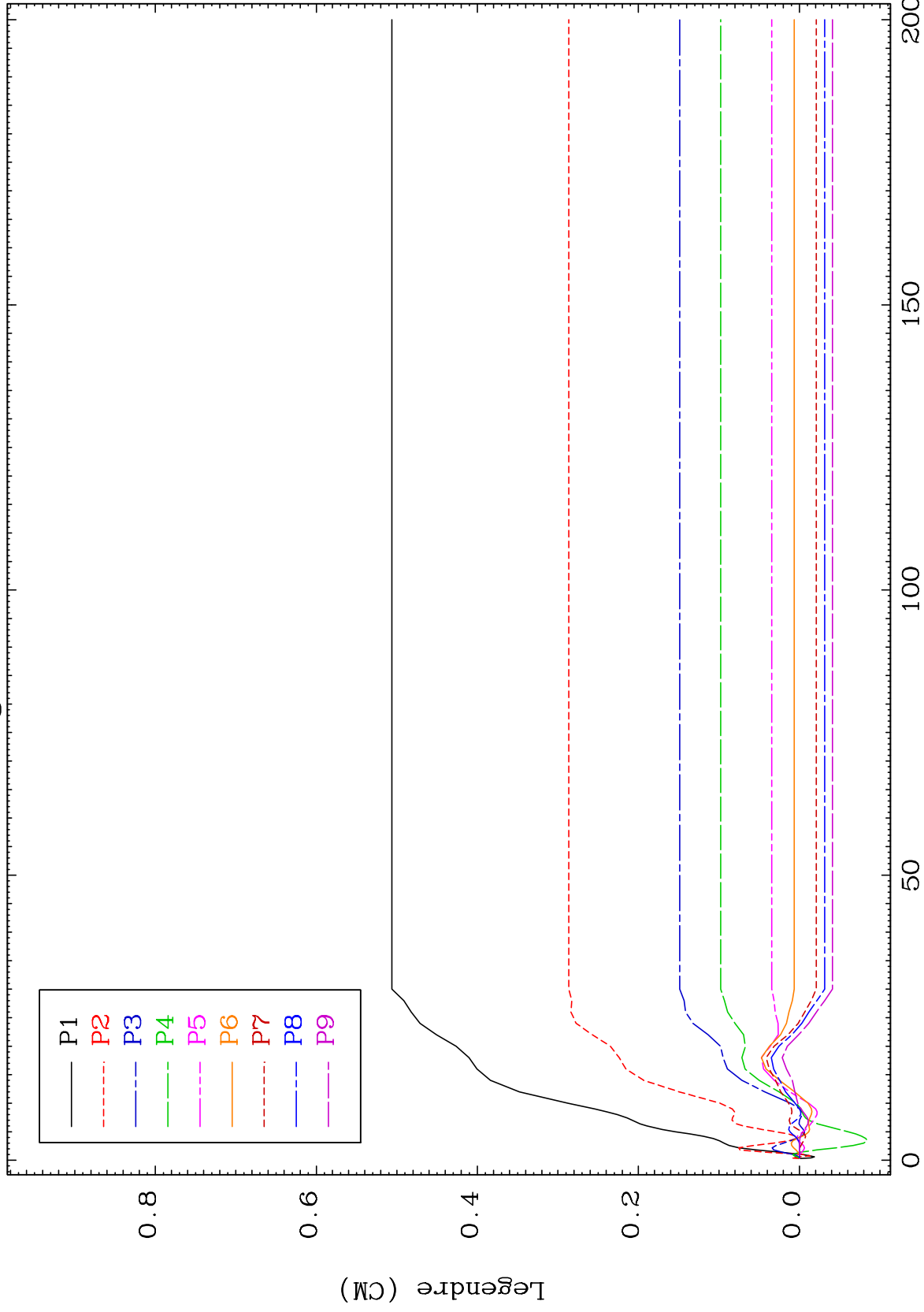


21

MAT 6204

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

62-Sm-137



22

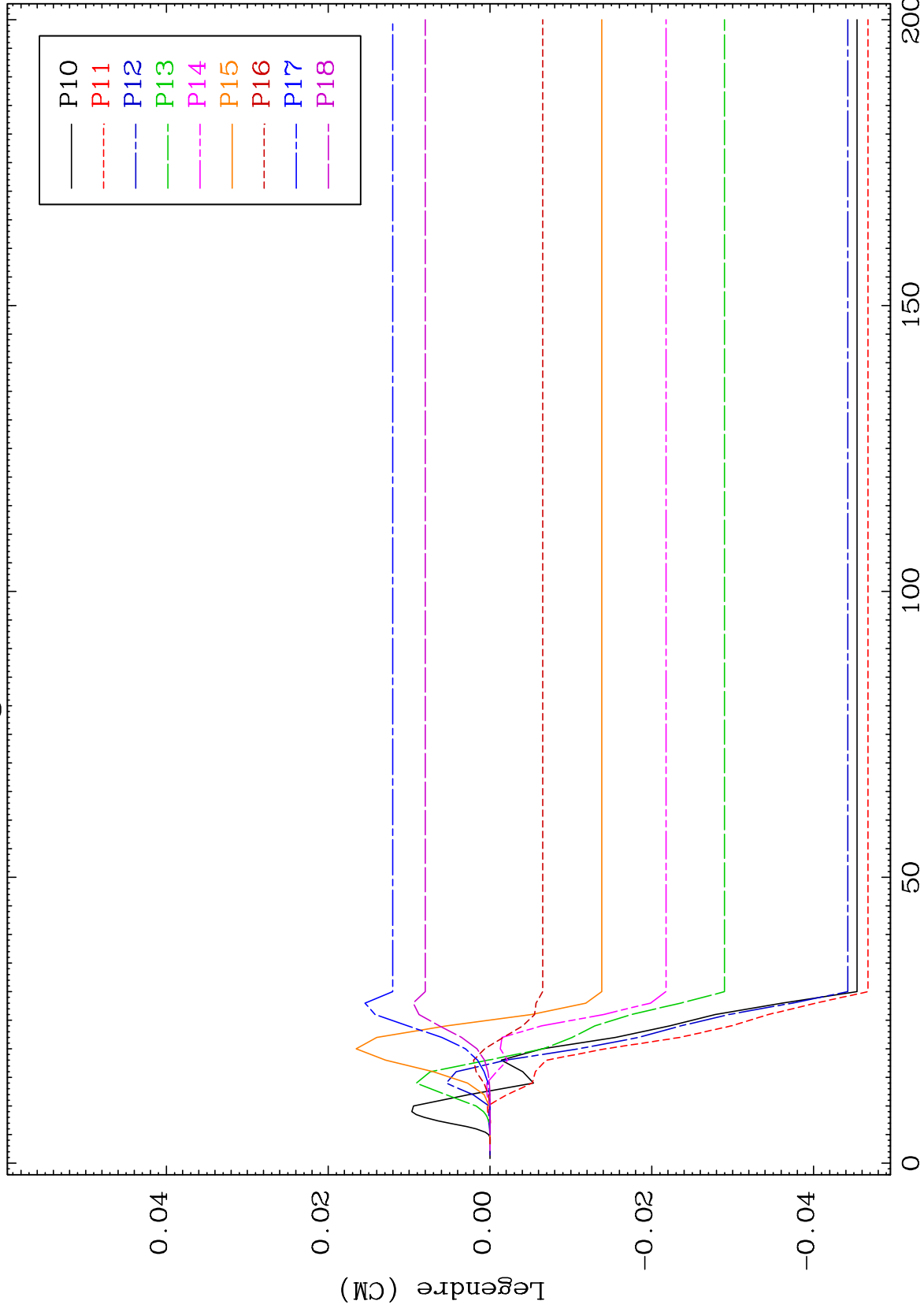
Incident Energy (MeV)

62-Sm-137

MAT 6204

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

62-Sm-137



23

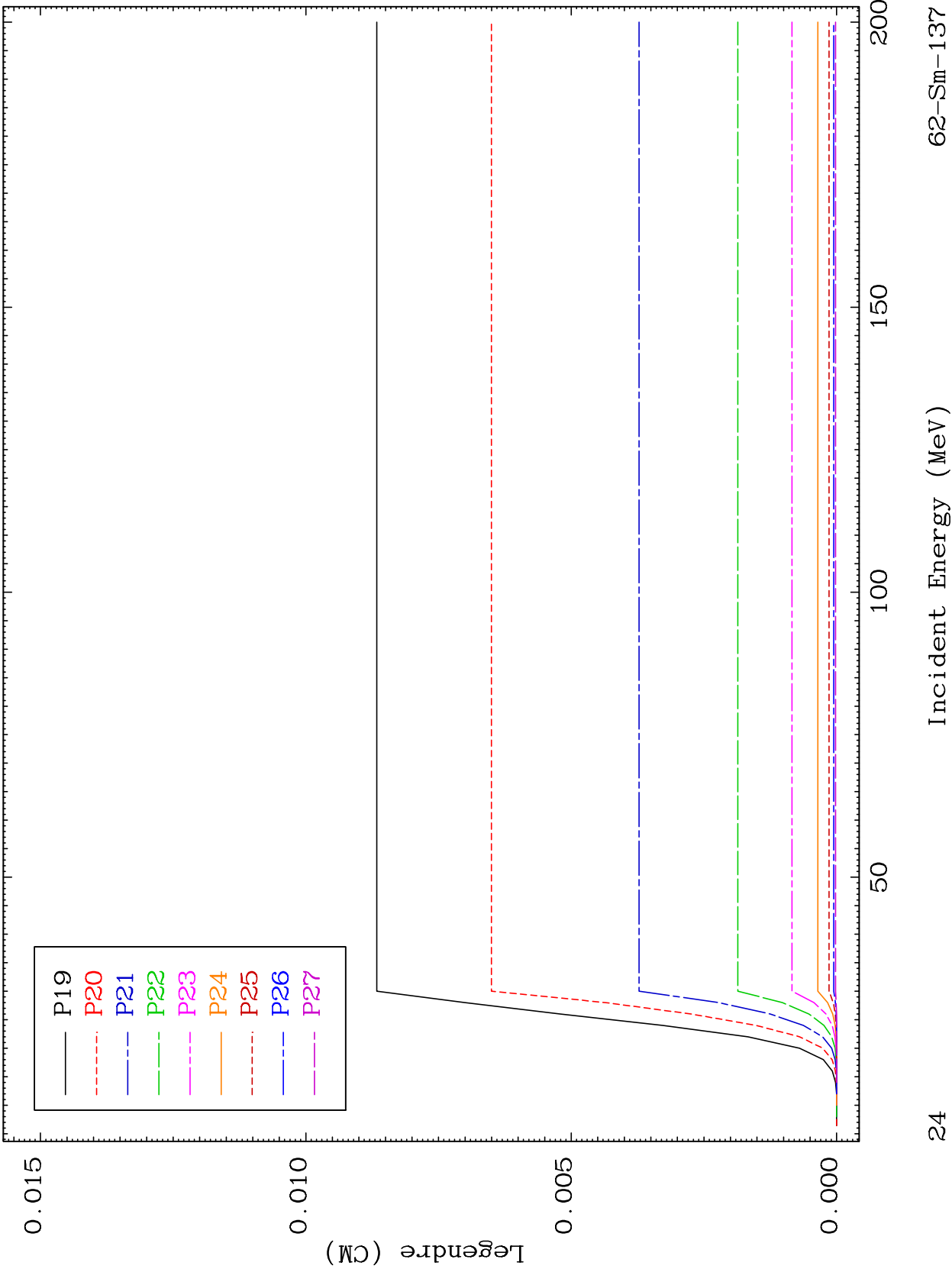
Incident Energy (MeV)

62-Sm-137

MAT 6204

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

62-Sm-137



24

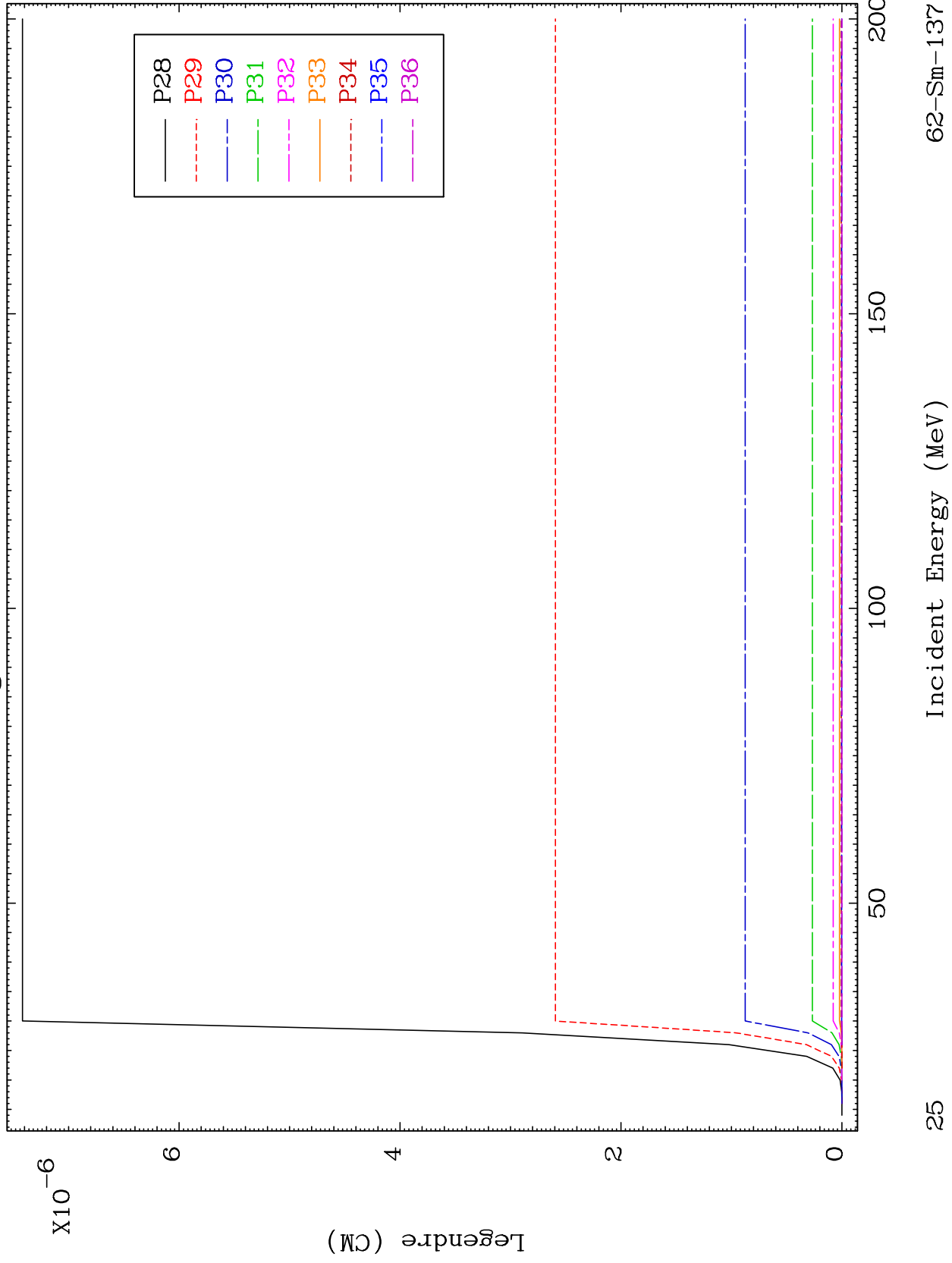
Incident Energy (MeV)

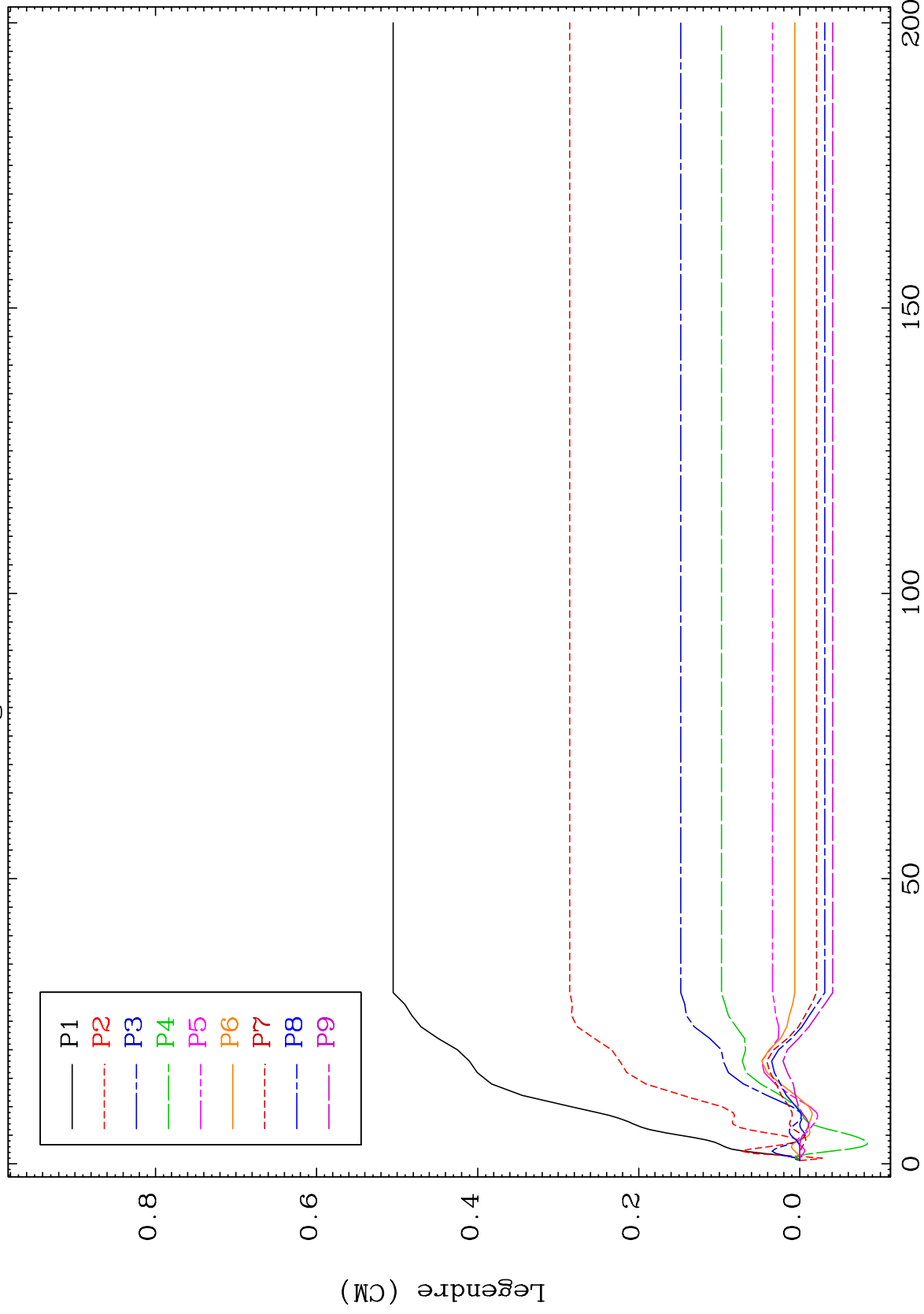
62-Sm-137

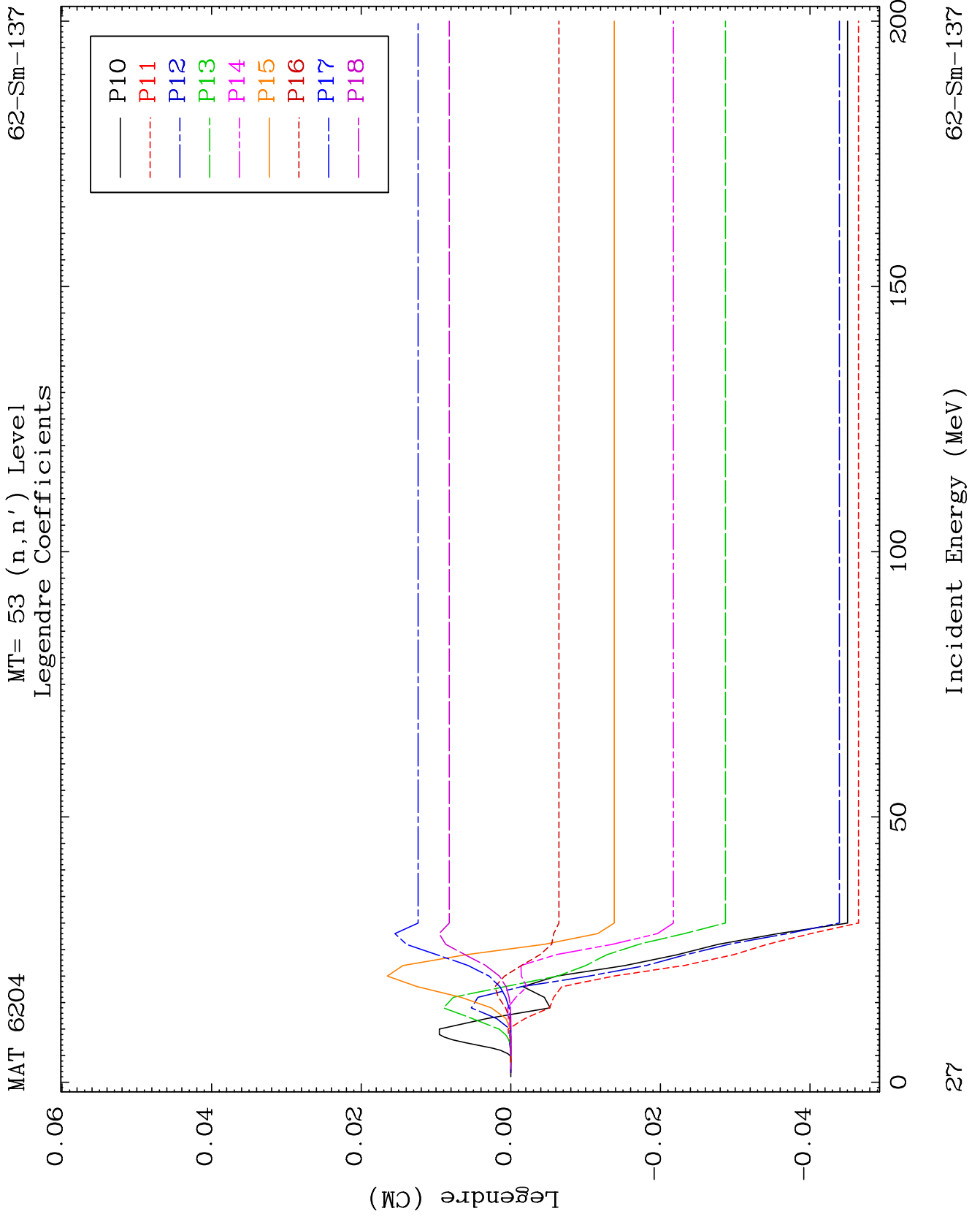
MAT 6204

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

62-Sm-137



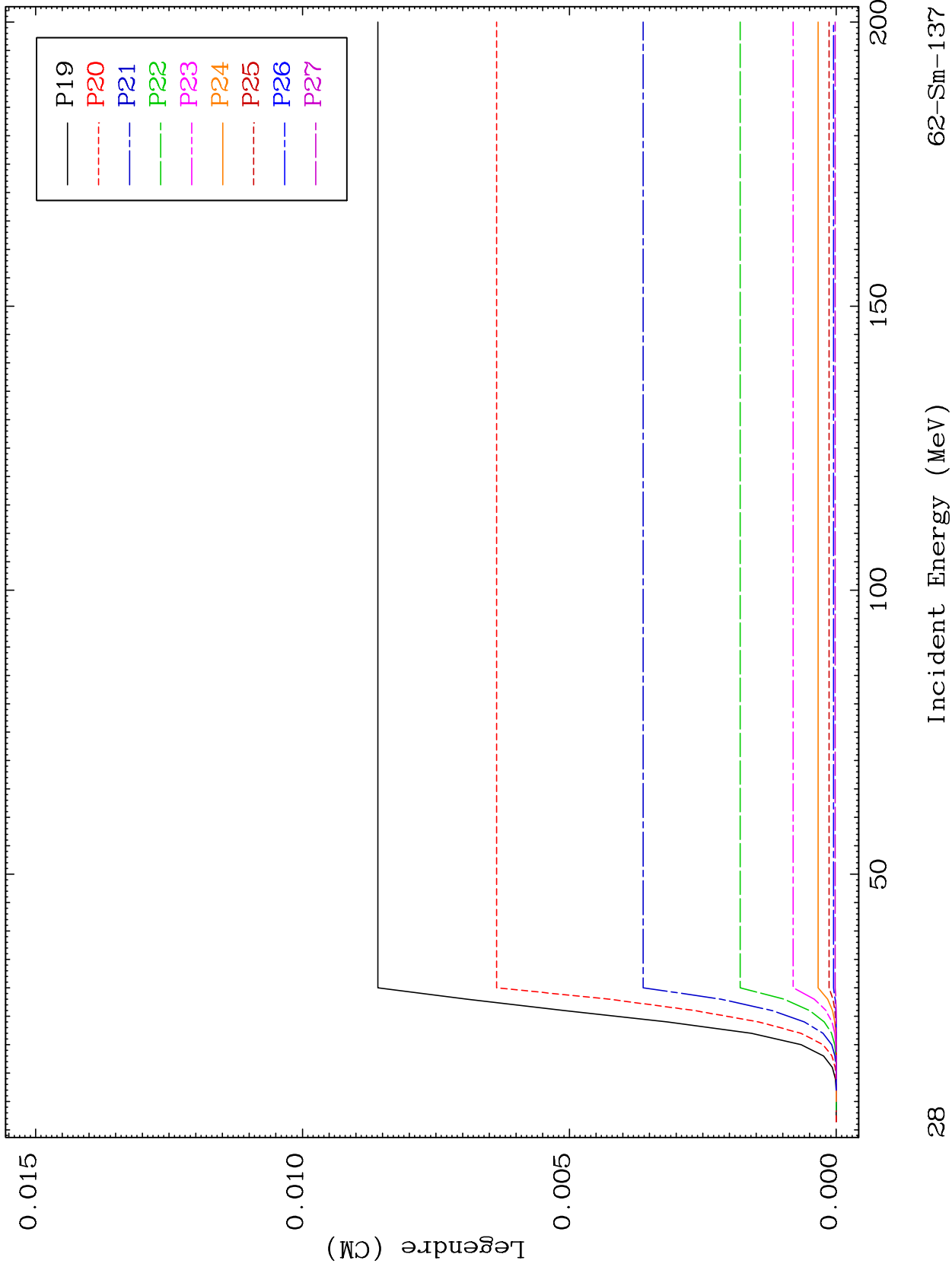




MAT 6204

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

62-Sm-137



28

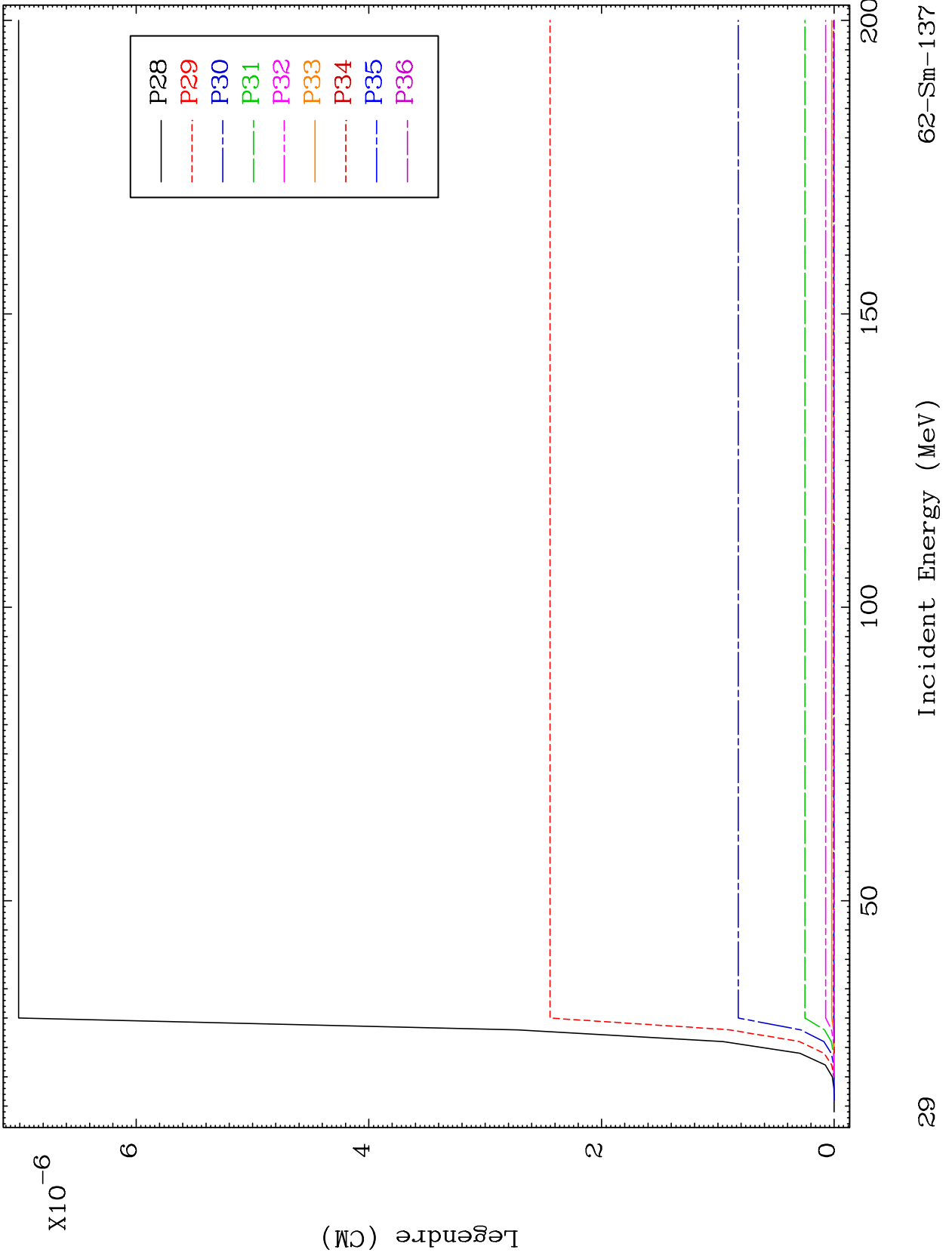
Incident Energy (MeV)

62-Sm-137

MAT 6204

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

62-Sm-137



29

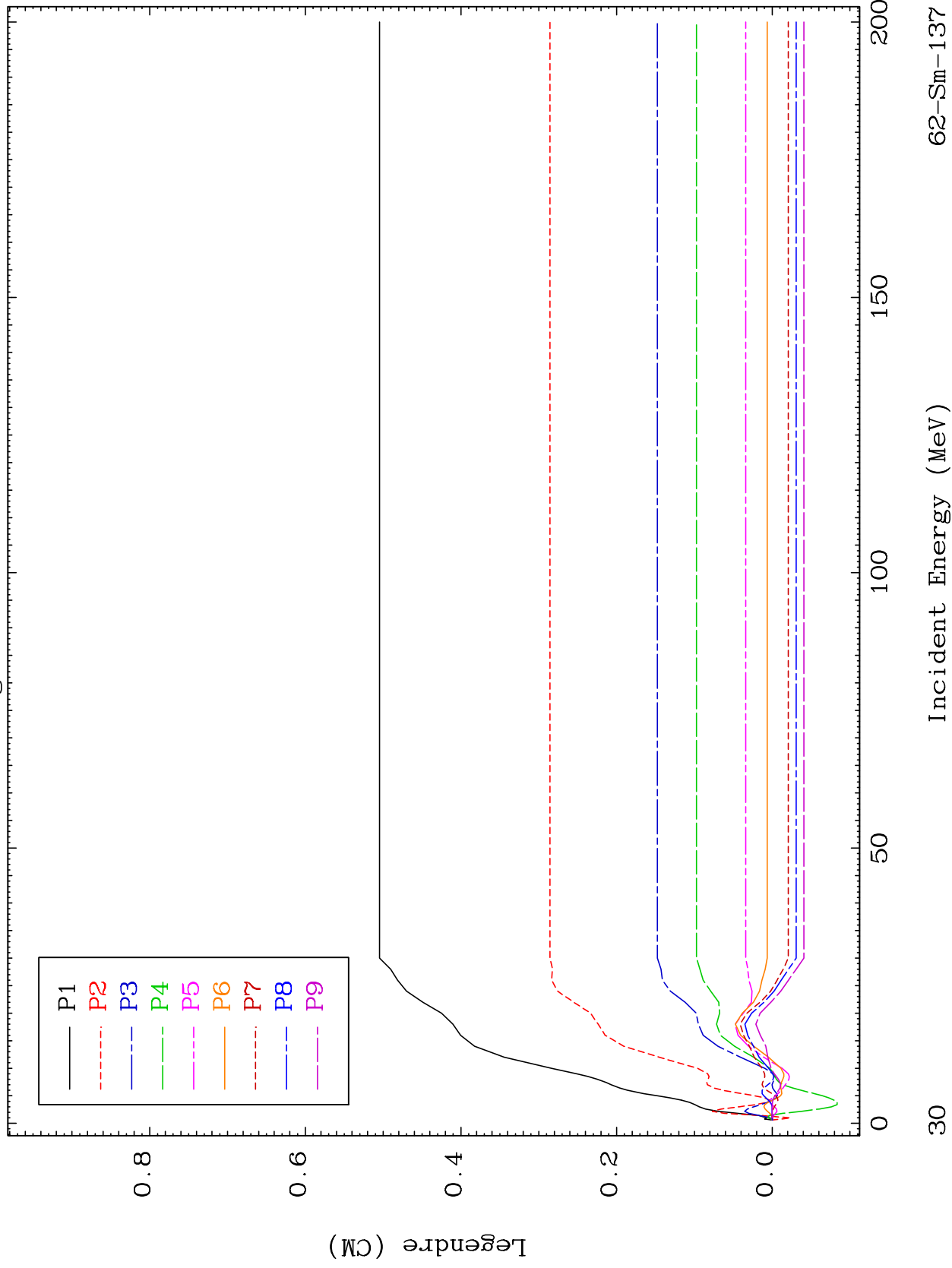
Incident Energy (MeV)

62-Sm-137

MAT 6204

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

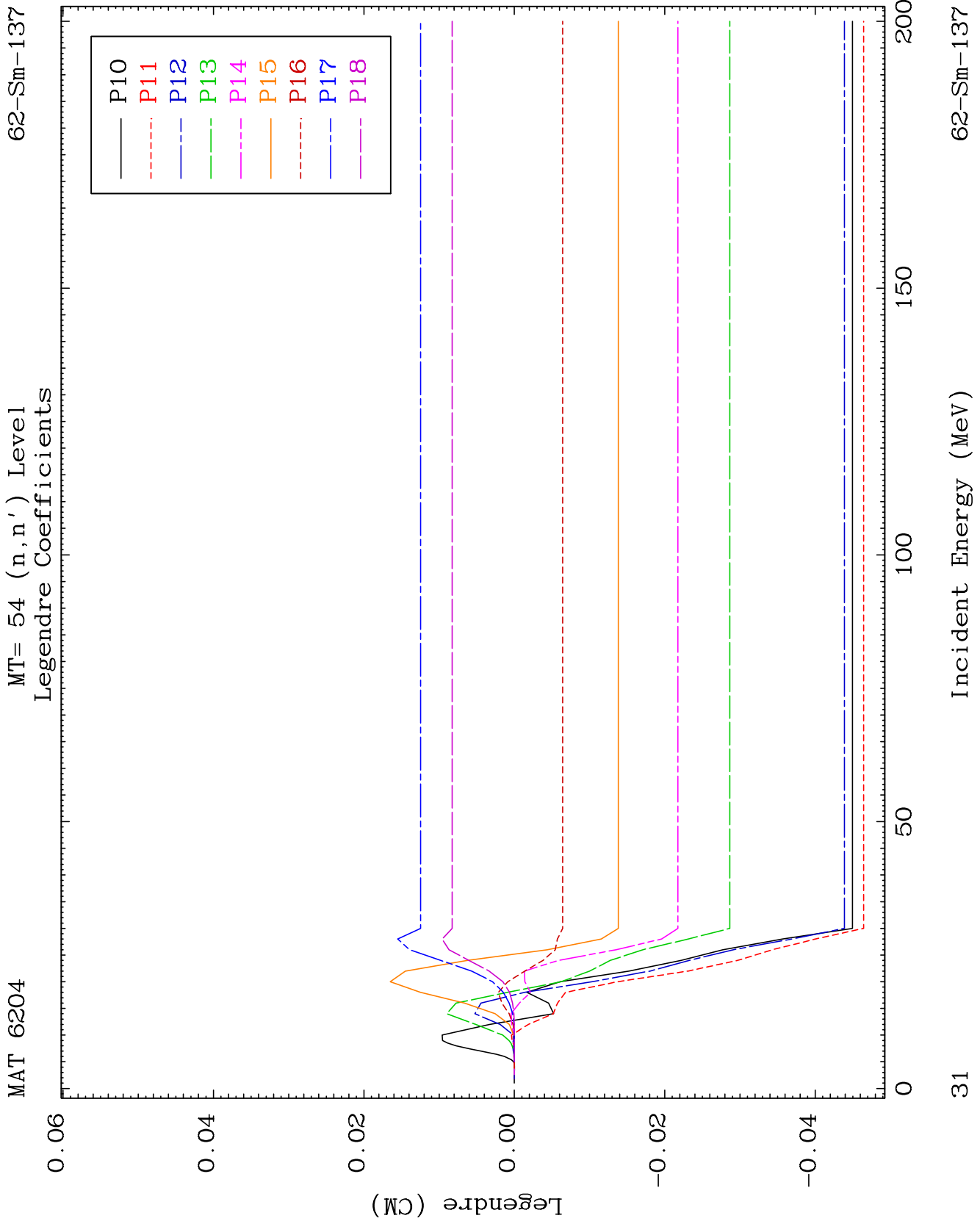
62-Sm-137



62-Sm-137

Incident Energy (MeV)

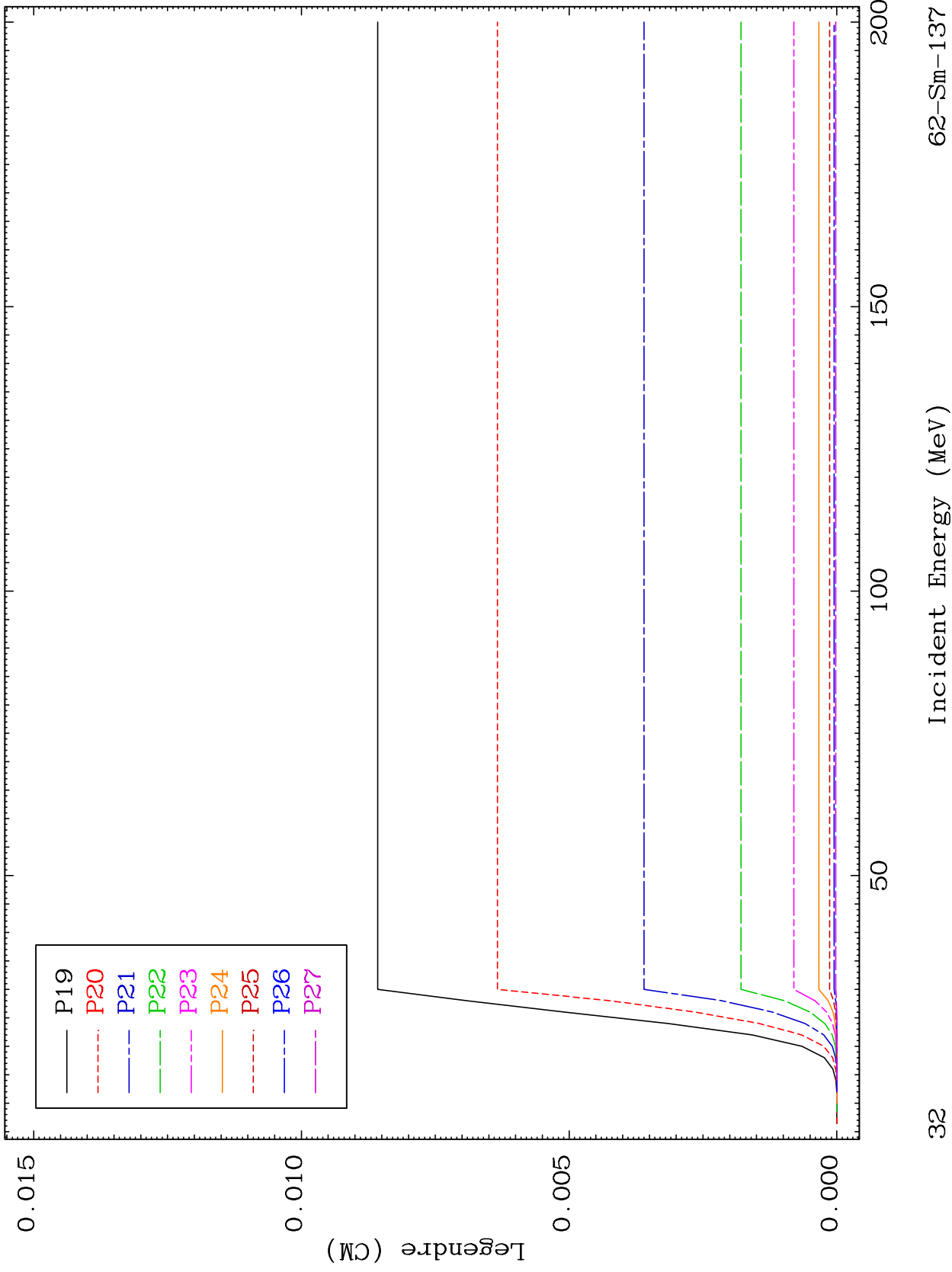
30



MAT 6204

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

62-Sm-137



32

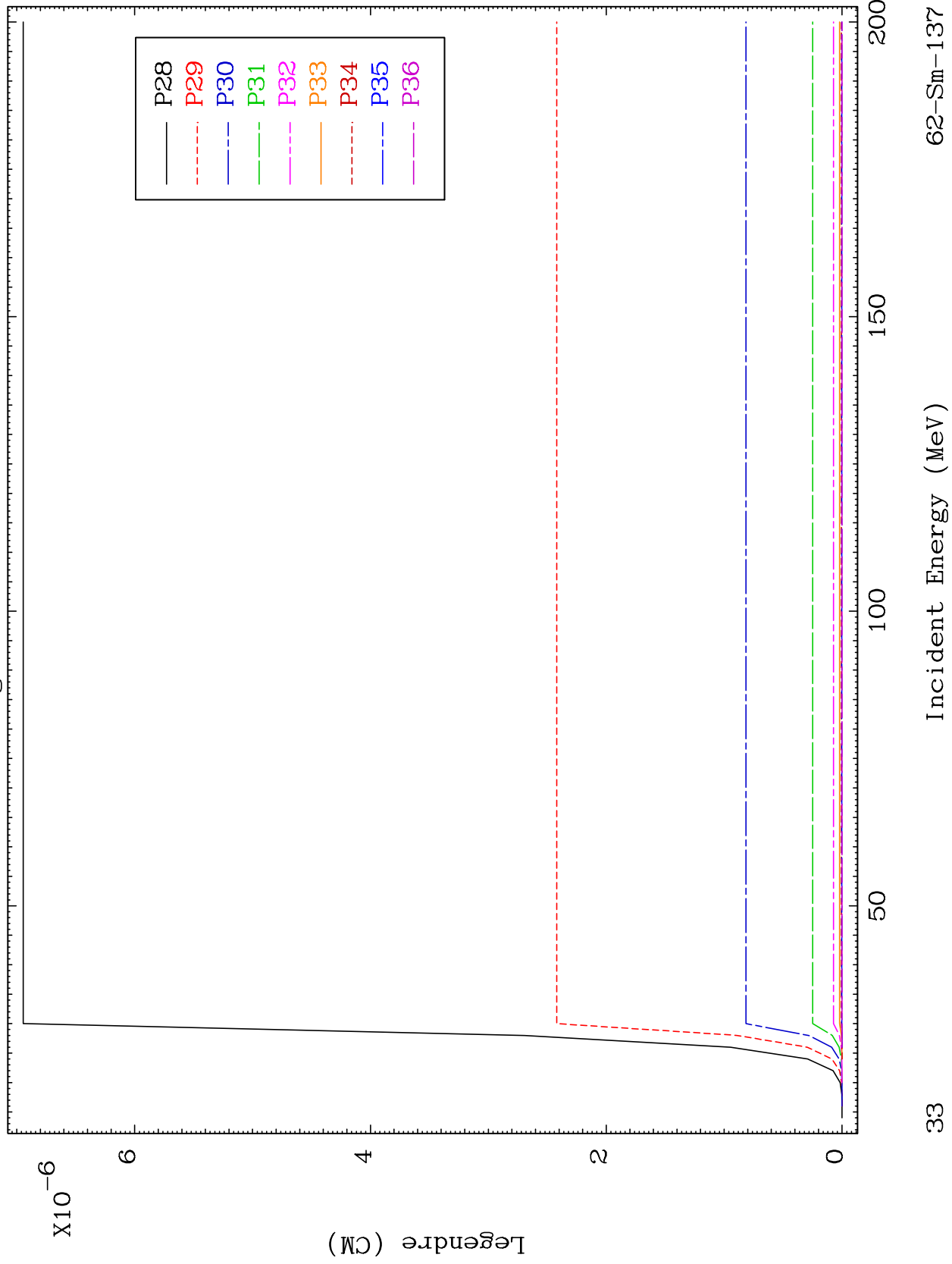
Incident Energy (MeV)

62-Sm-137

MAT 6204

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

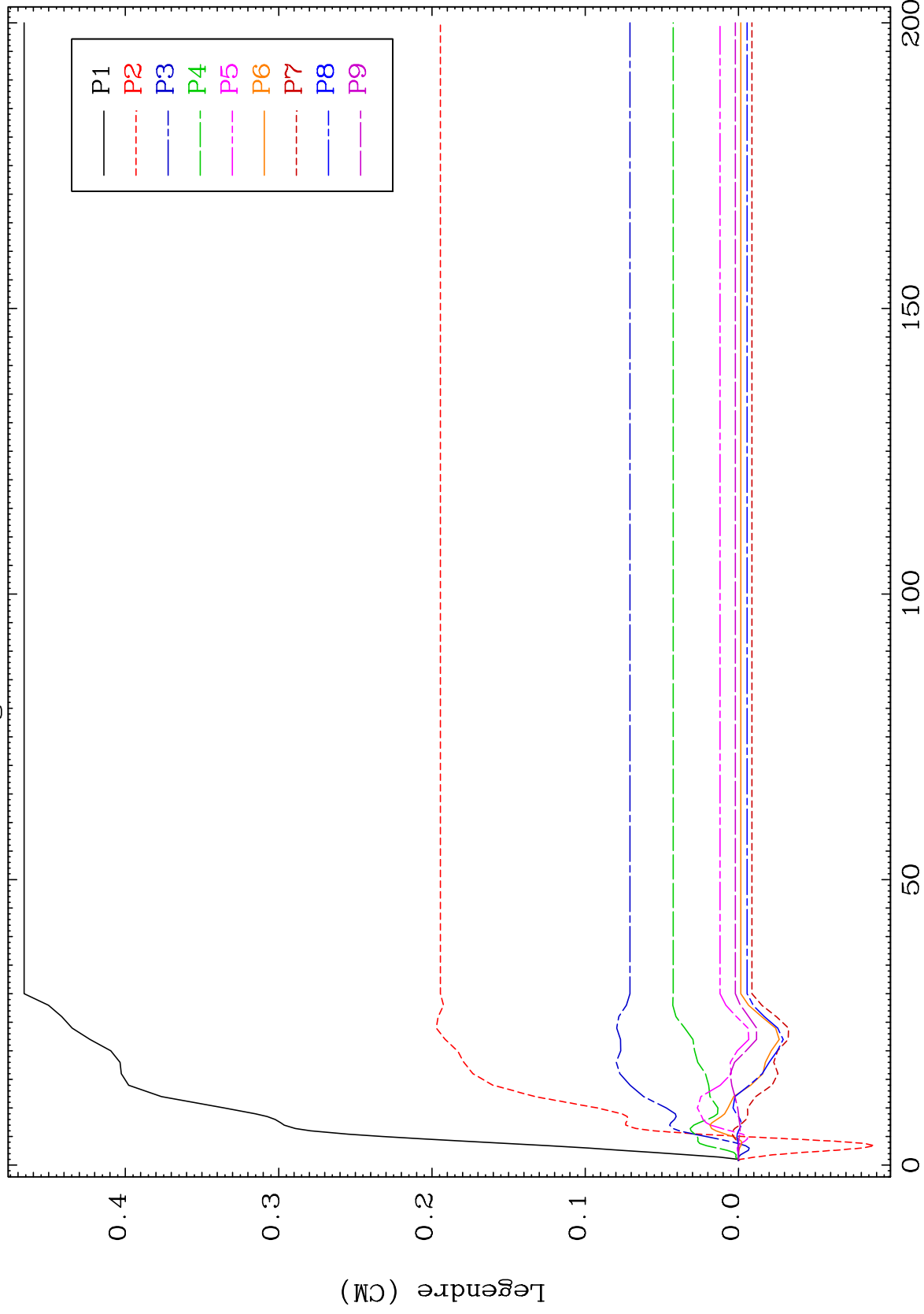
62-Sm-137



MAT 6204

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

62-Sm-137



34

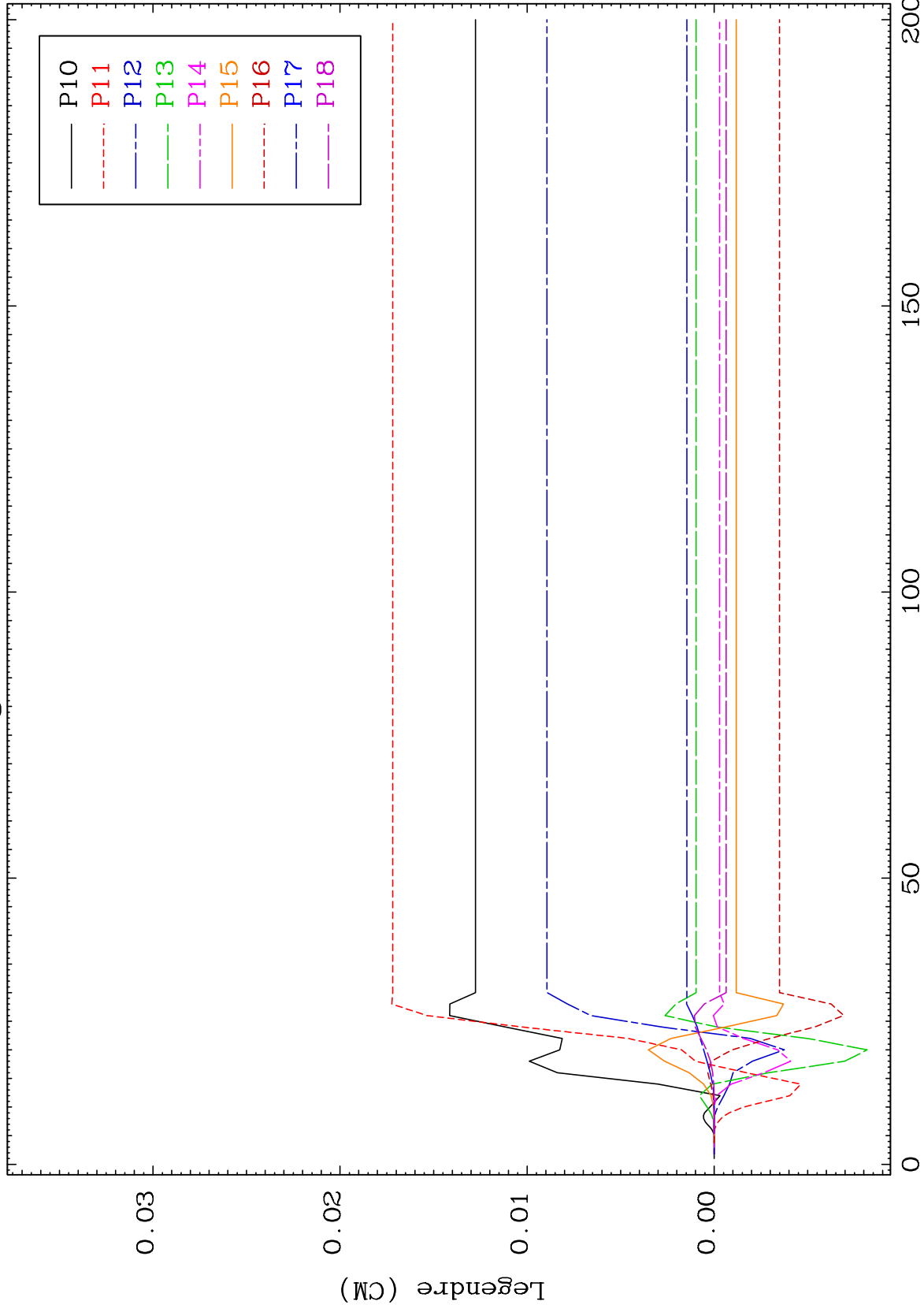
Incident Energy (MeV)

62-Sm-137

MAT 6204

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

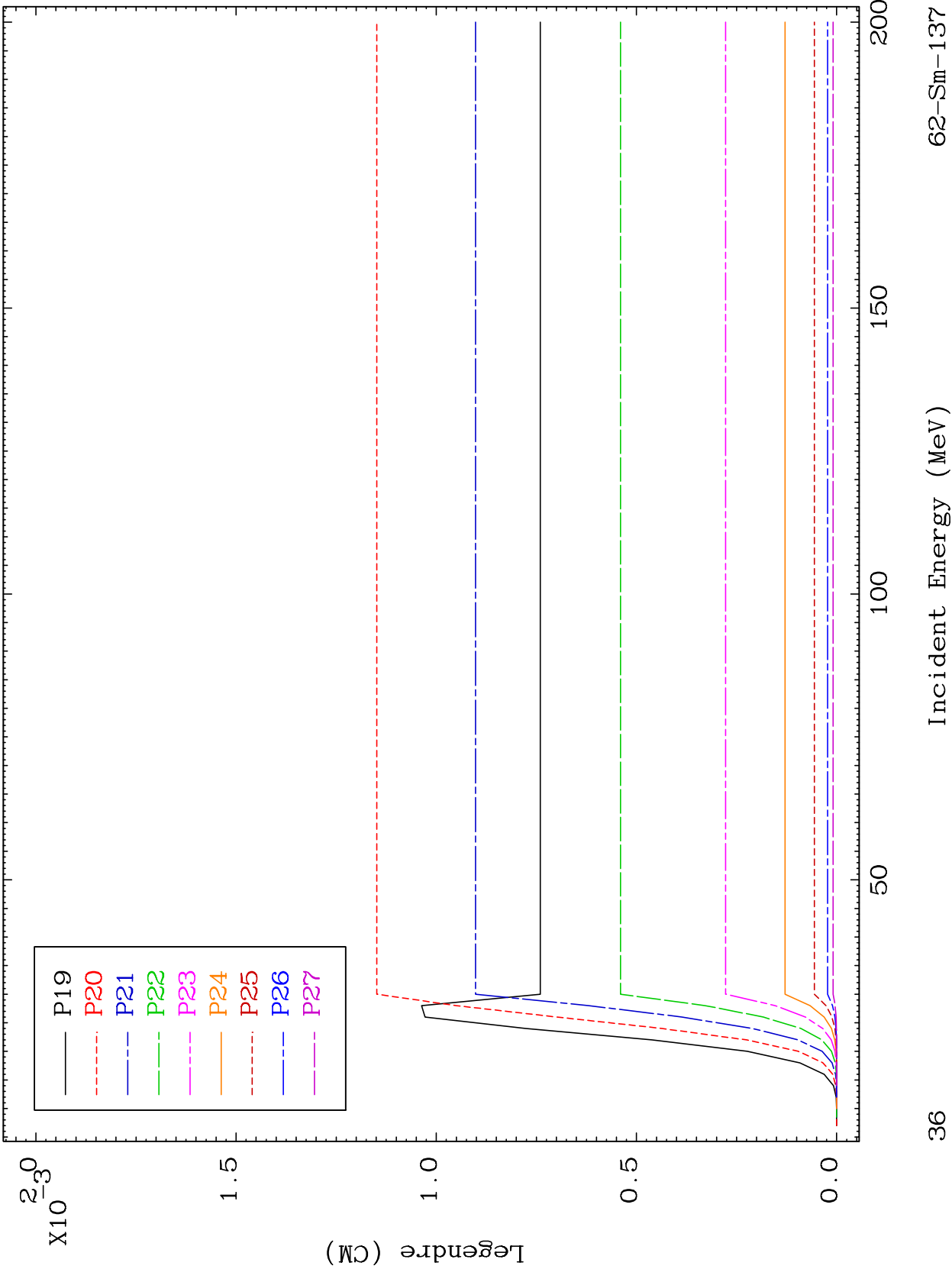
62-Sm-137



35

Incident Energy (MeV)

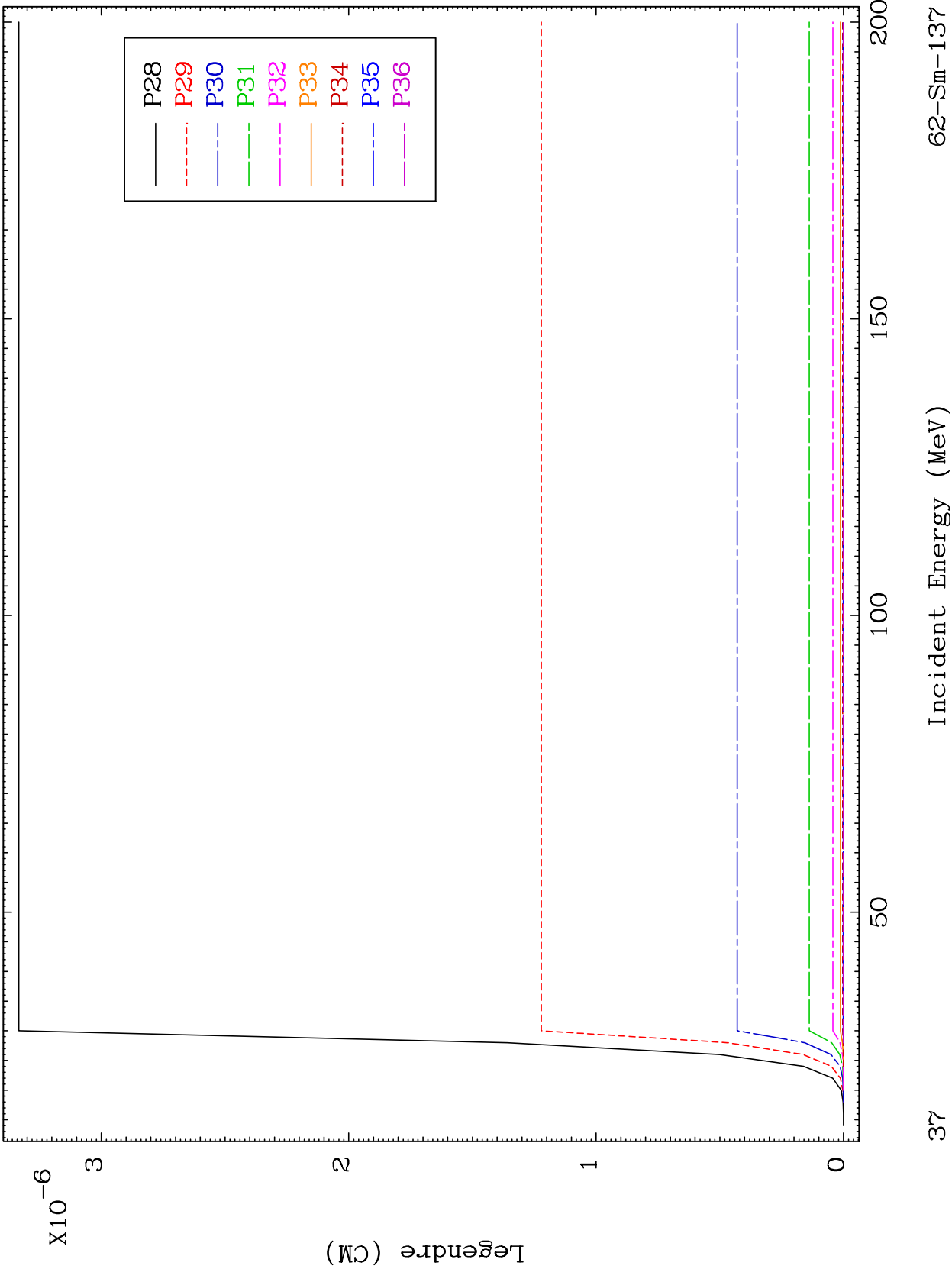
62-Sm-137



MAT 6204

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

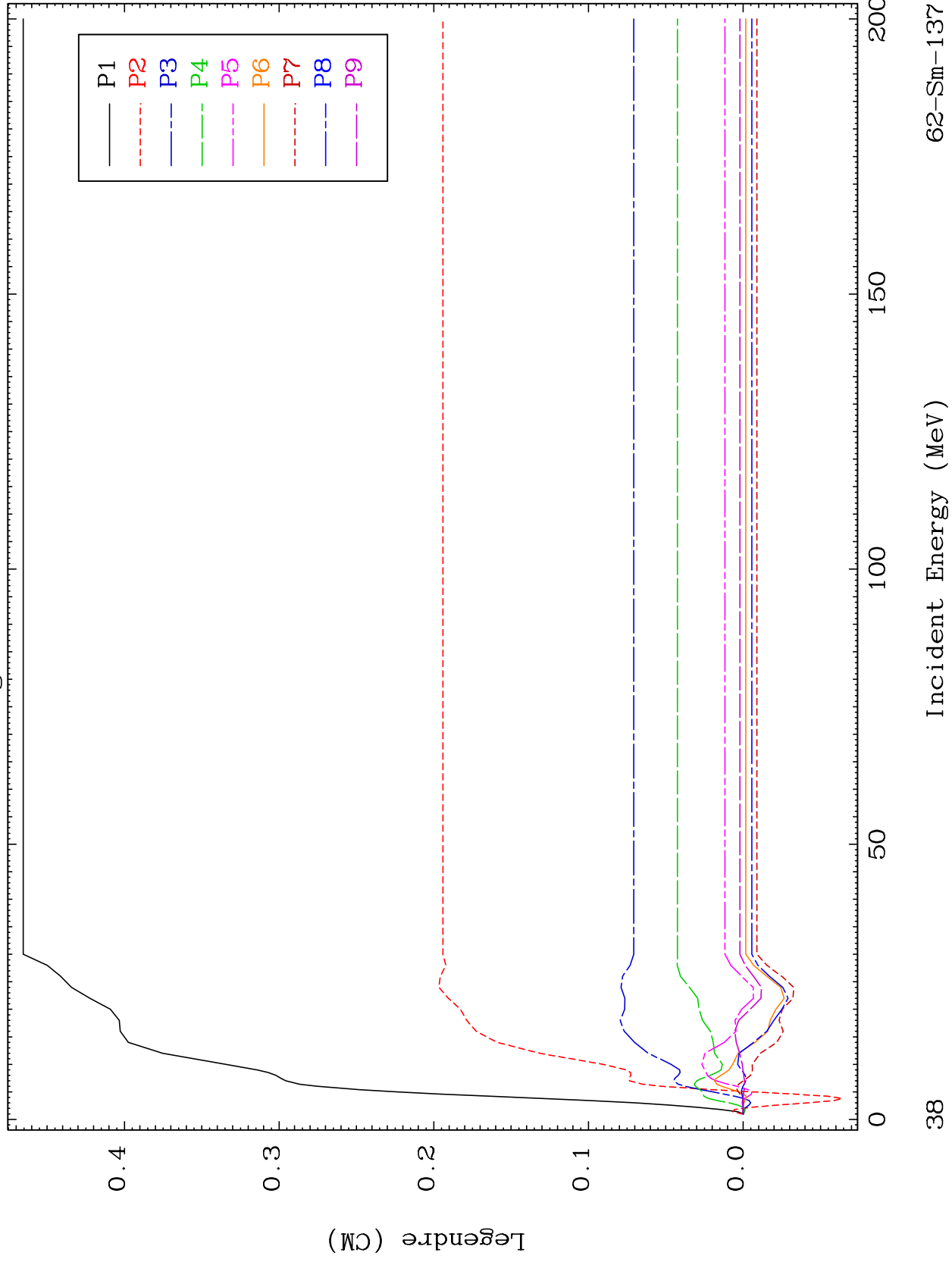
62-Sm-137



MAT 6204

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

62-Sm-137



62-Sm-137

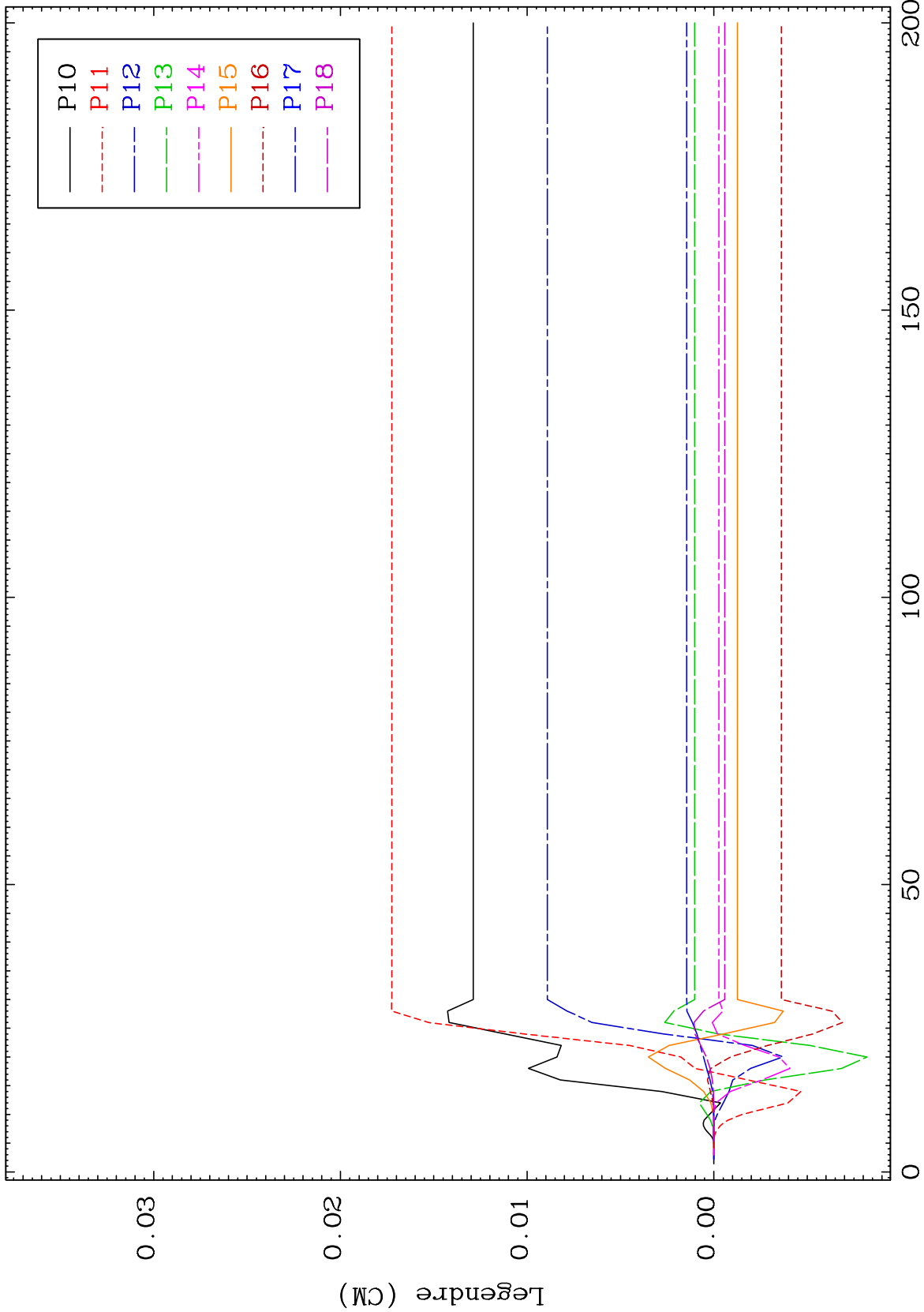
Incident Energy (MeV)

38

MAT 6204

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

62-Sm-137



39

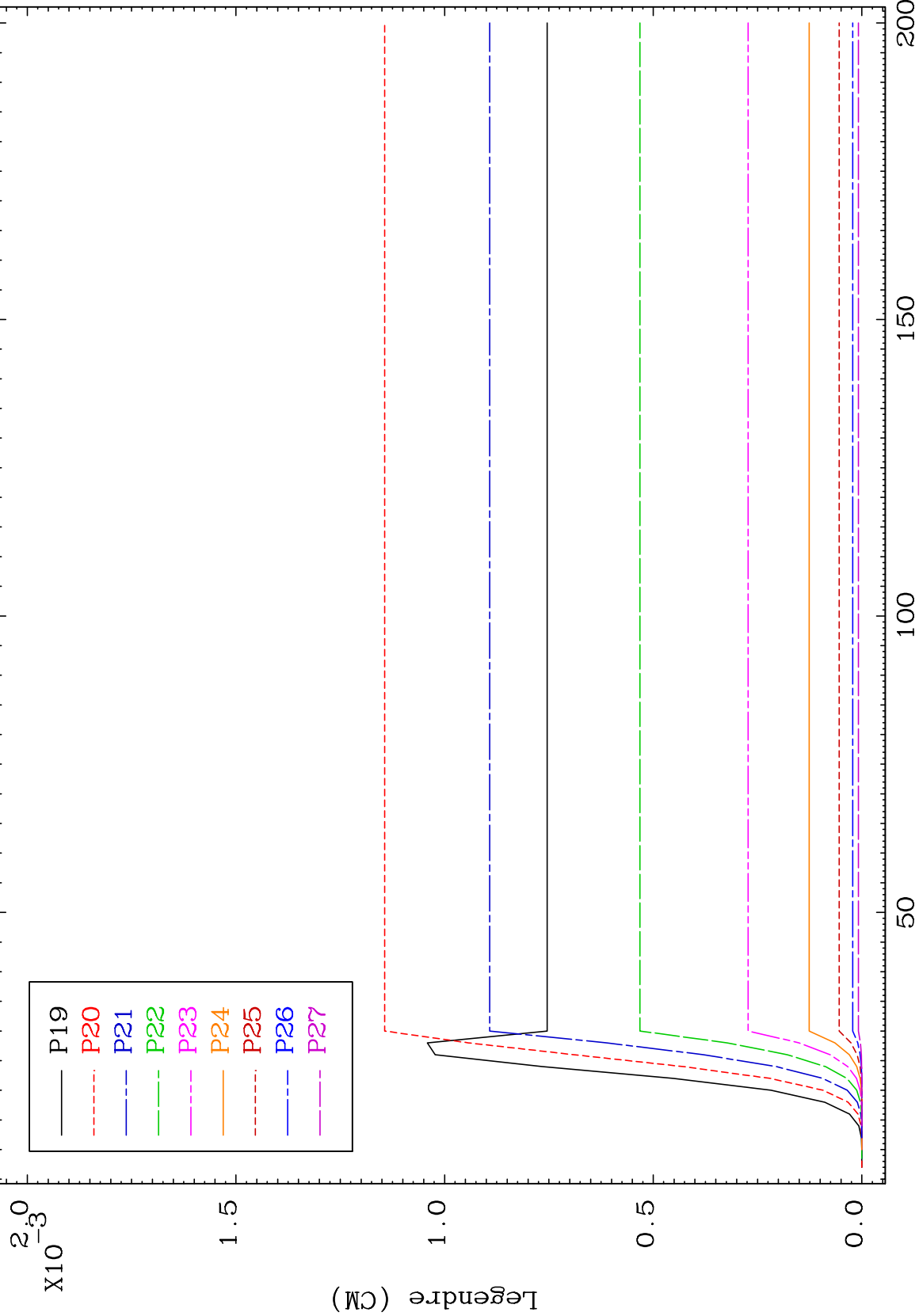
Incident Energy (MeV)

62-Sm-137

MAT 6204

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

62-Sm-137



40

Incident Energy (MeV)

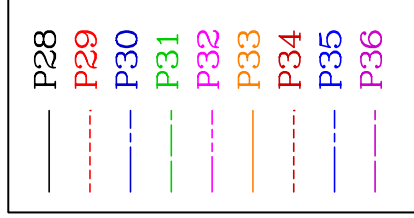
62-Sm-137

MAT 6204

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

62-Sm-137

$\times 10^{-6}$



Legendre (CM)

200

150

100

50

41

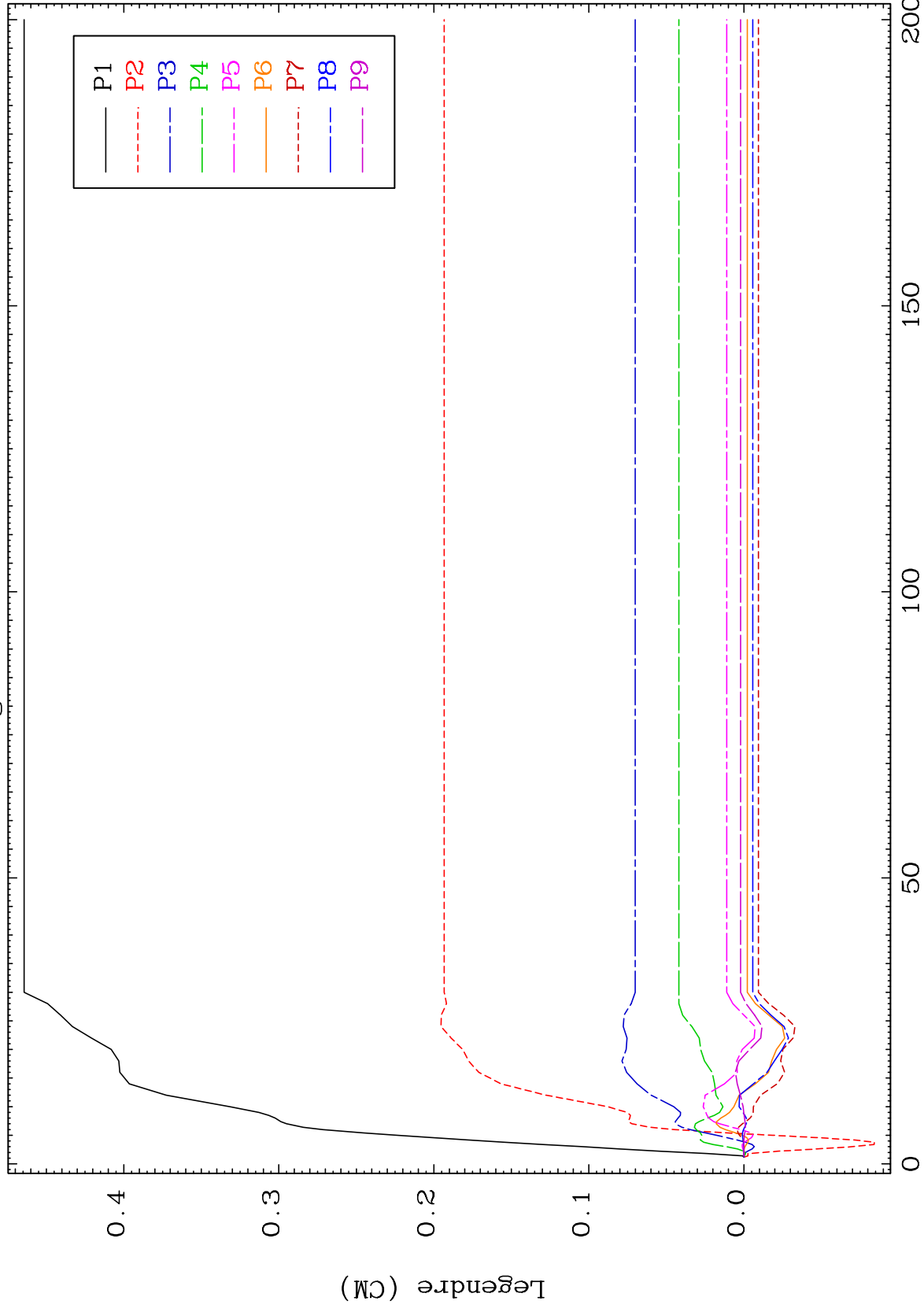
Incident Energy (MeV)

62-Sm-137

MAT 6204

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

62-Sm-137



42

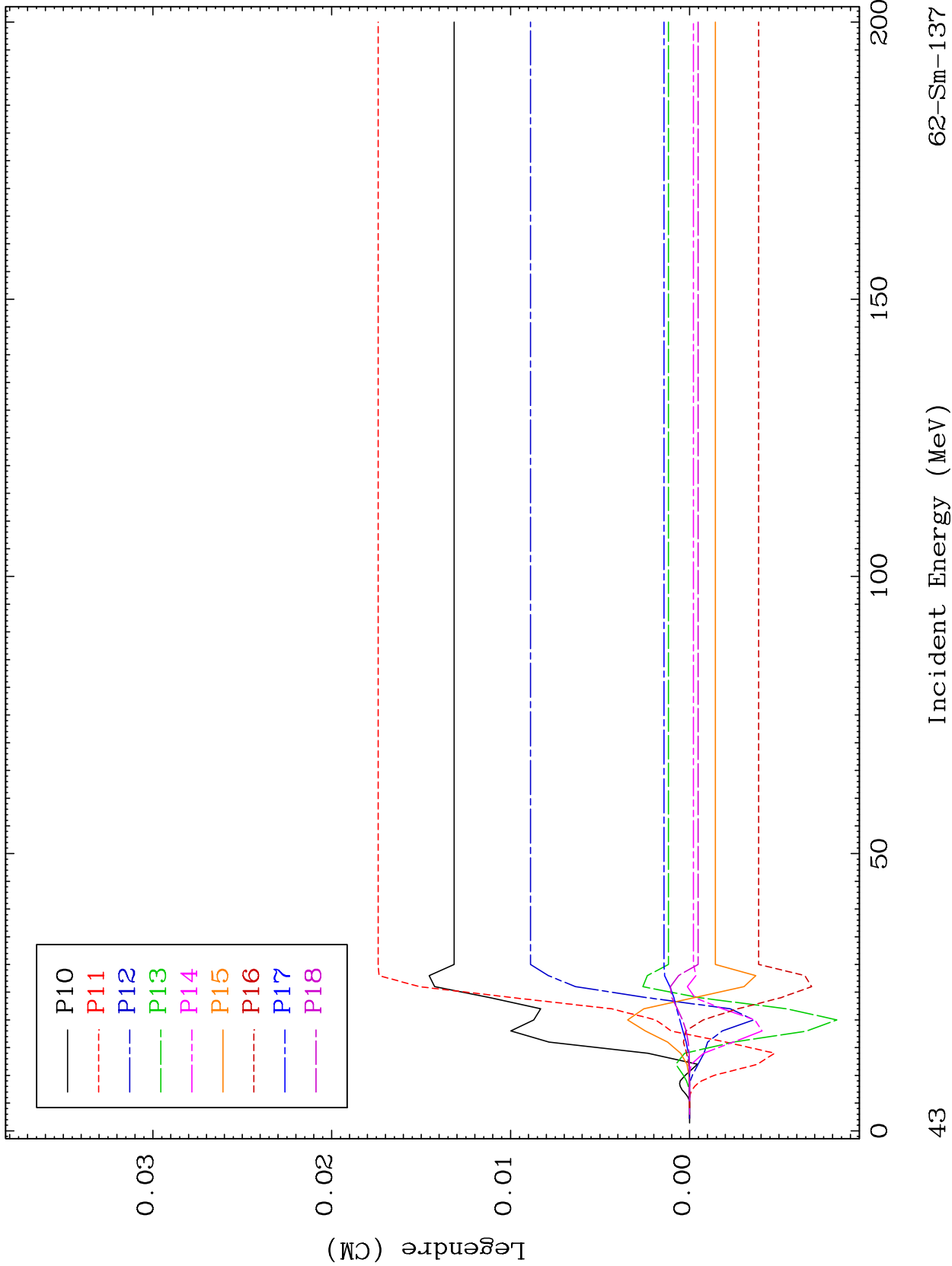
Incident Energy (MeV)

62-Sm-137

MAT 6204

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

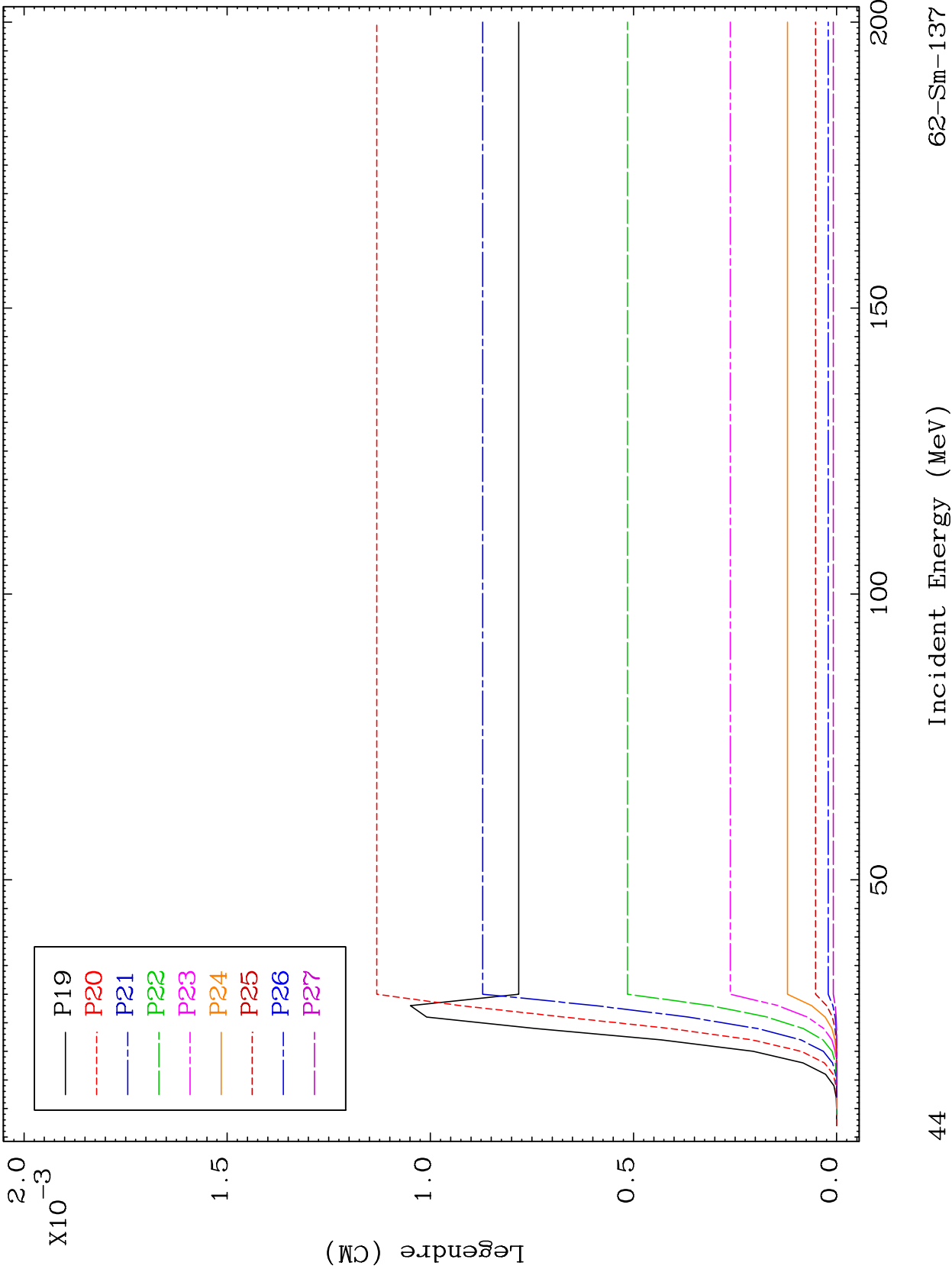
62-Sm-137



43

Incident Energy (MeV)

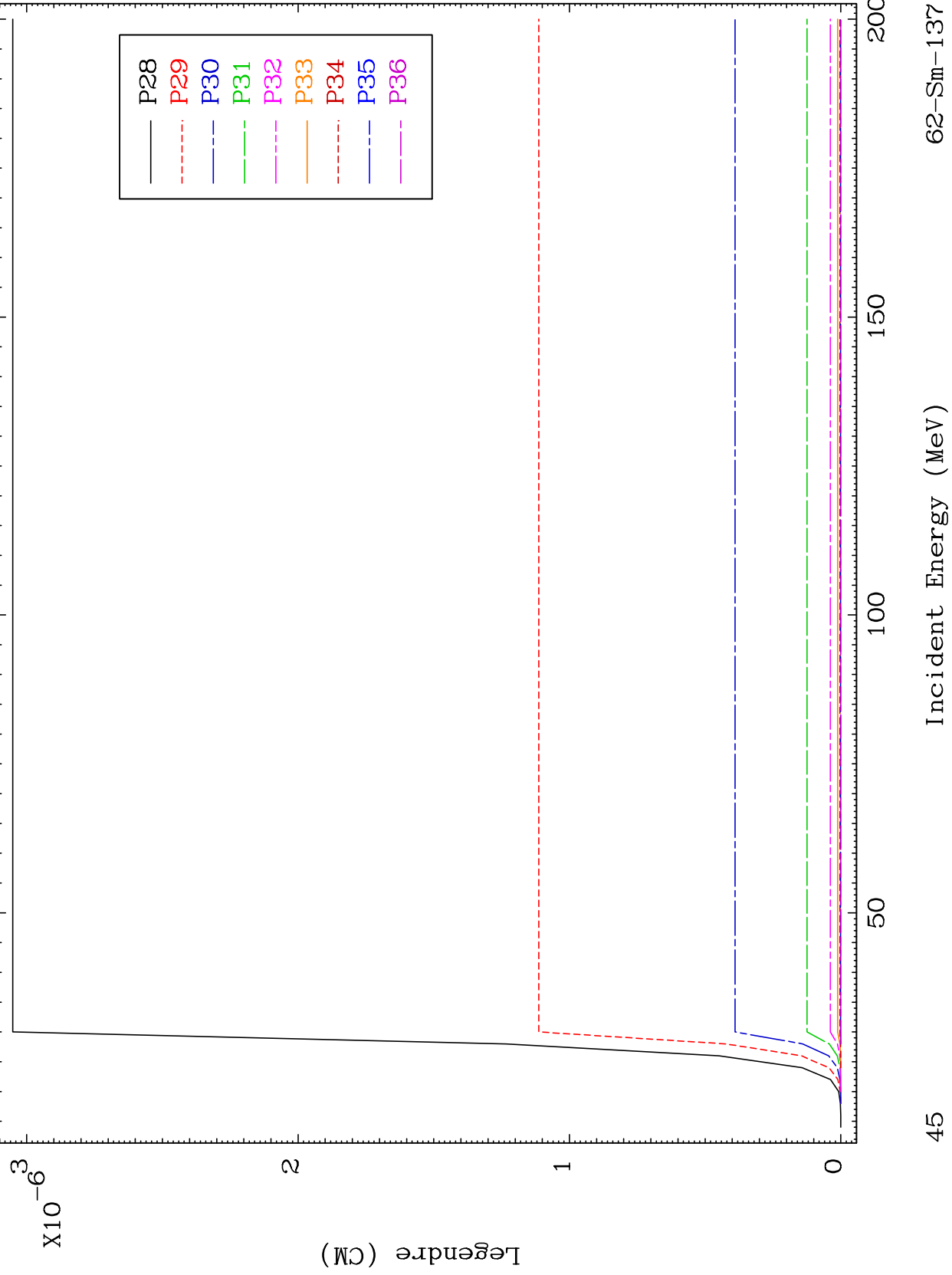
62-Sm-137



MAT 6204

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

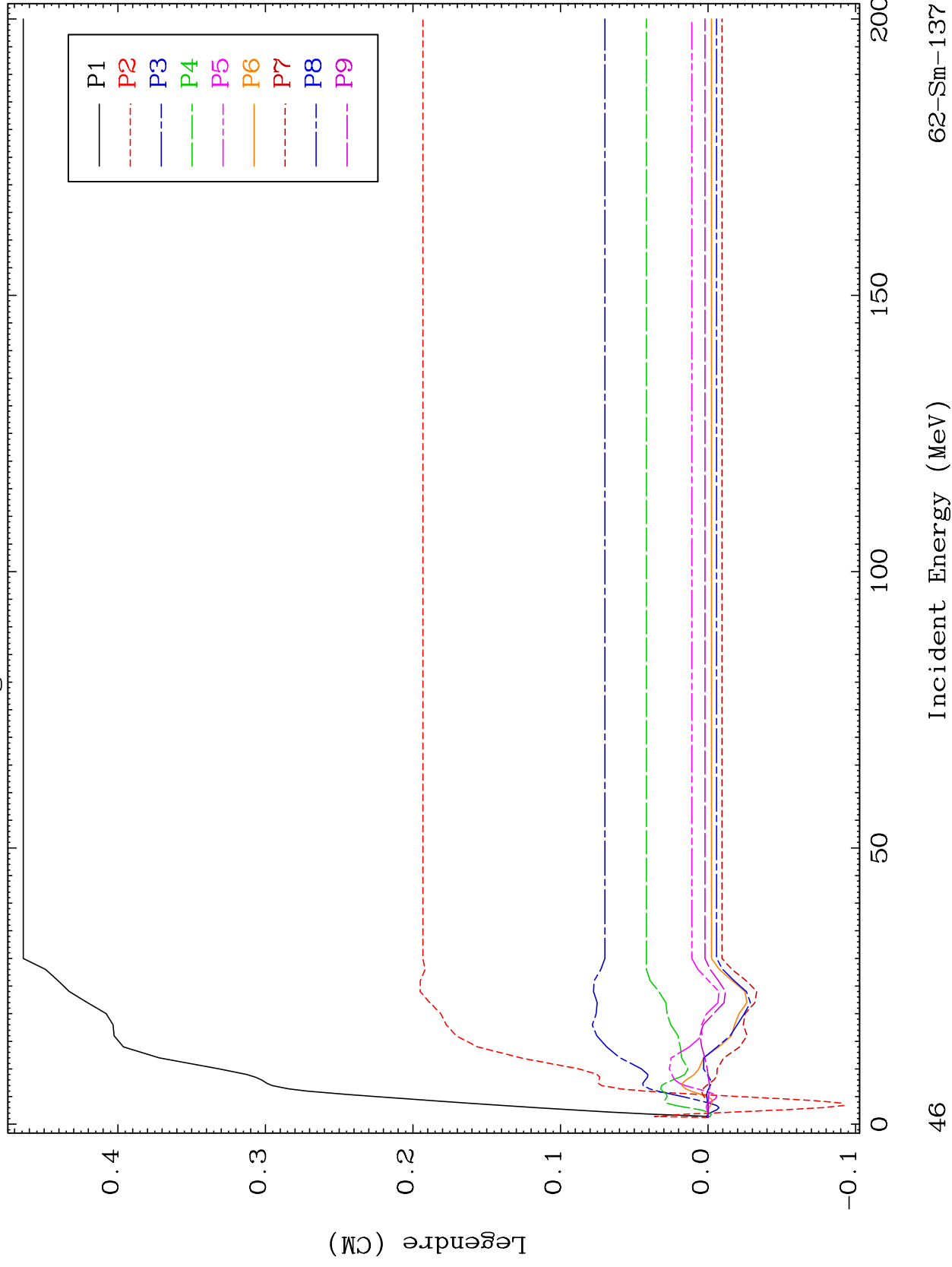
62-Sm-137



MAT 6204

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

62-Sm-137



62-Sm-137

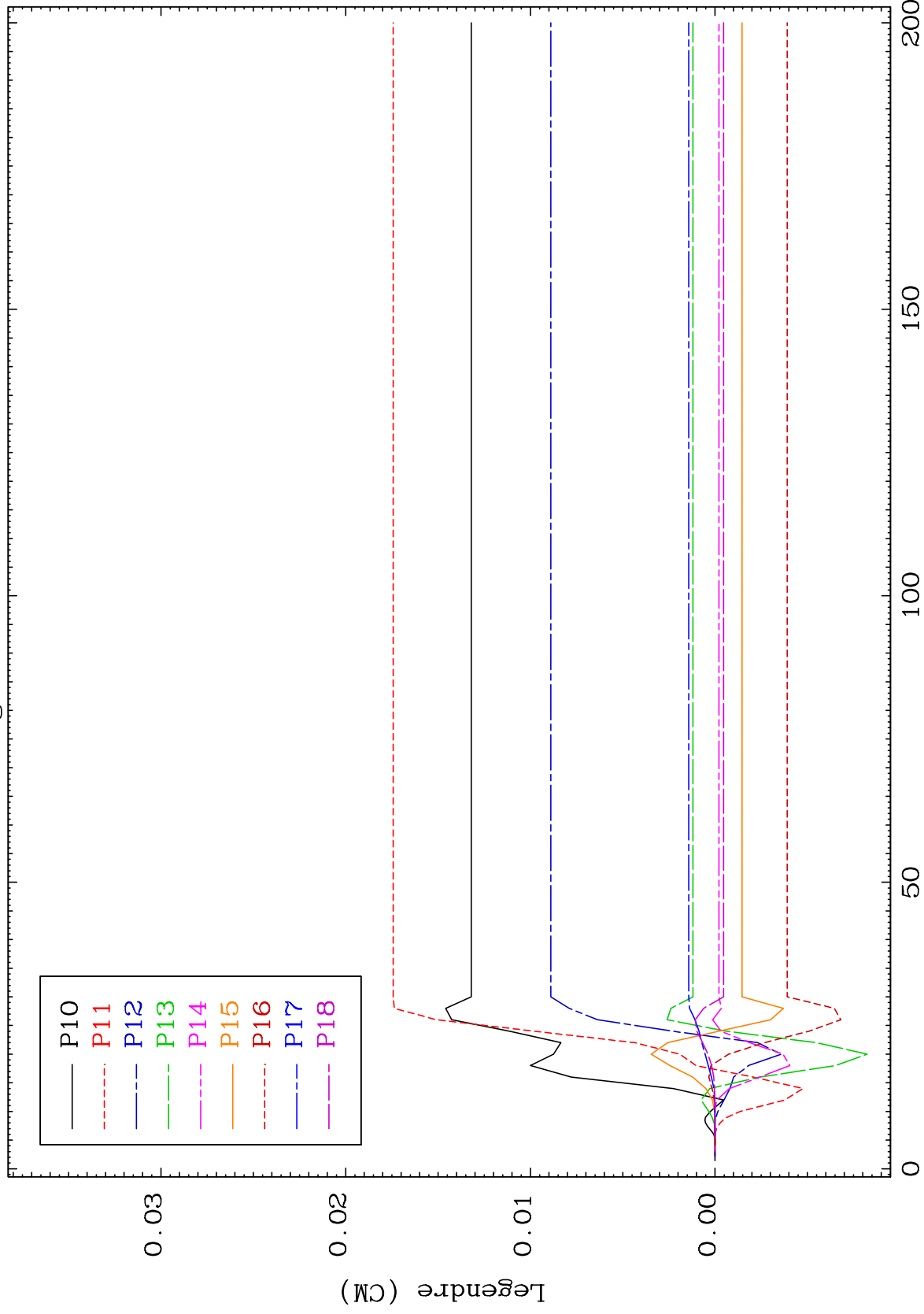
Incident Energy (MeV)

46

MAT 6204

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

62-Sm-137



47

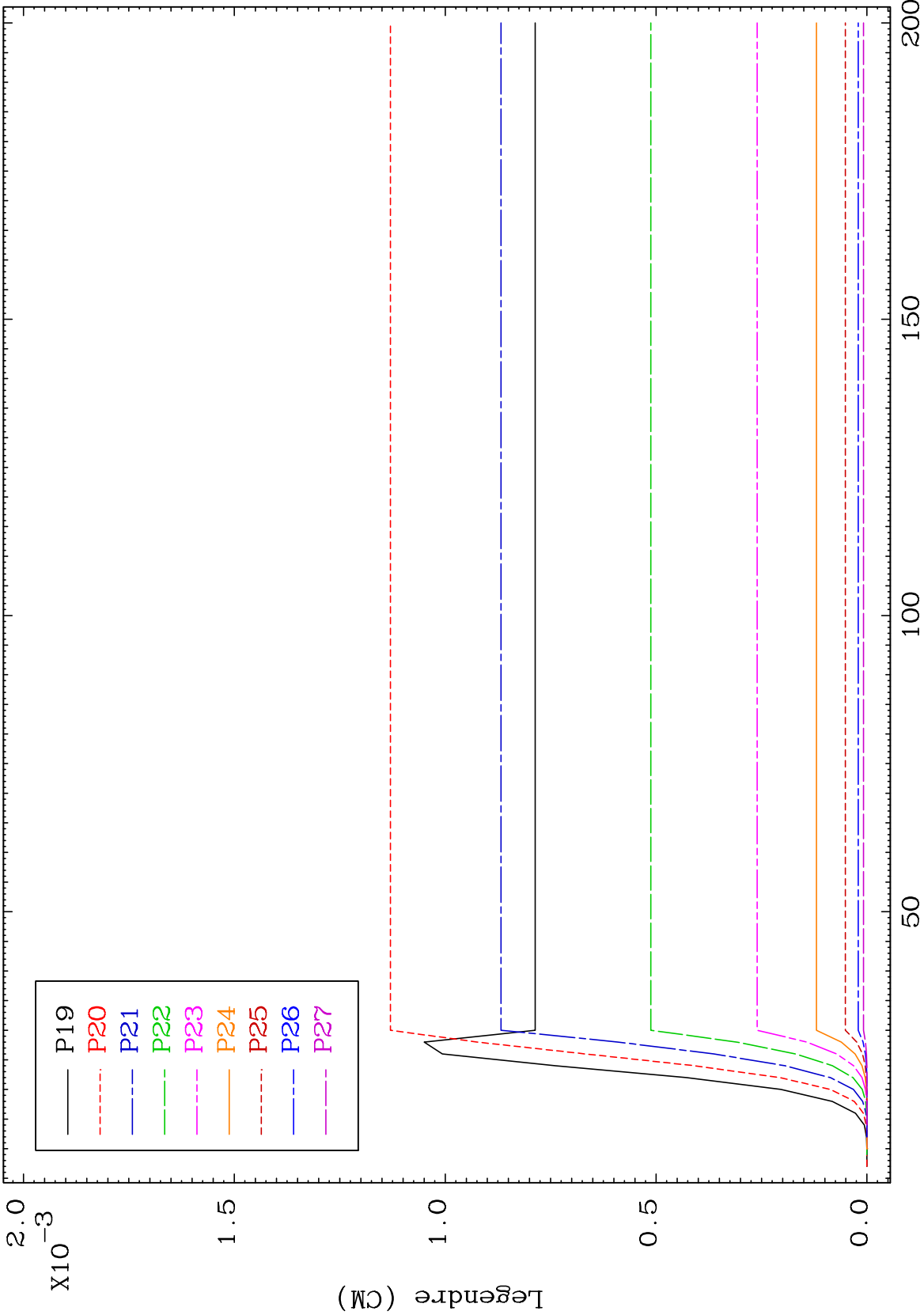
Incident Energy (MeV)

62-Sm-137

MAT 6204

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

62-Sm-137



48

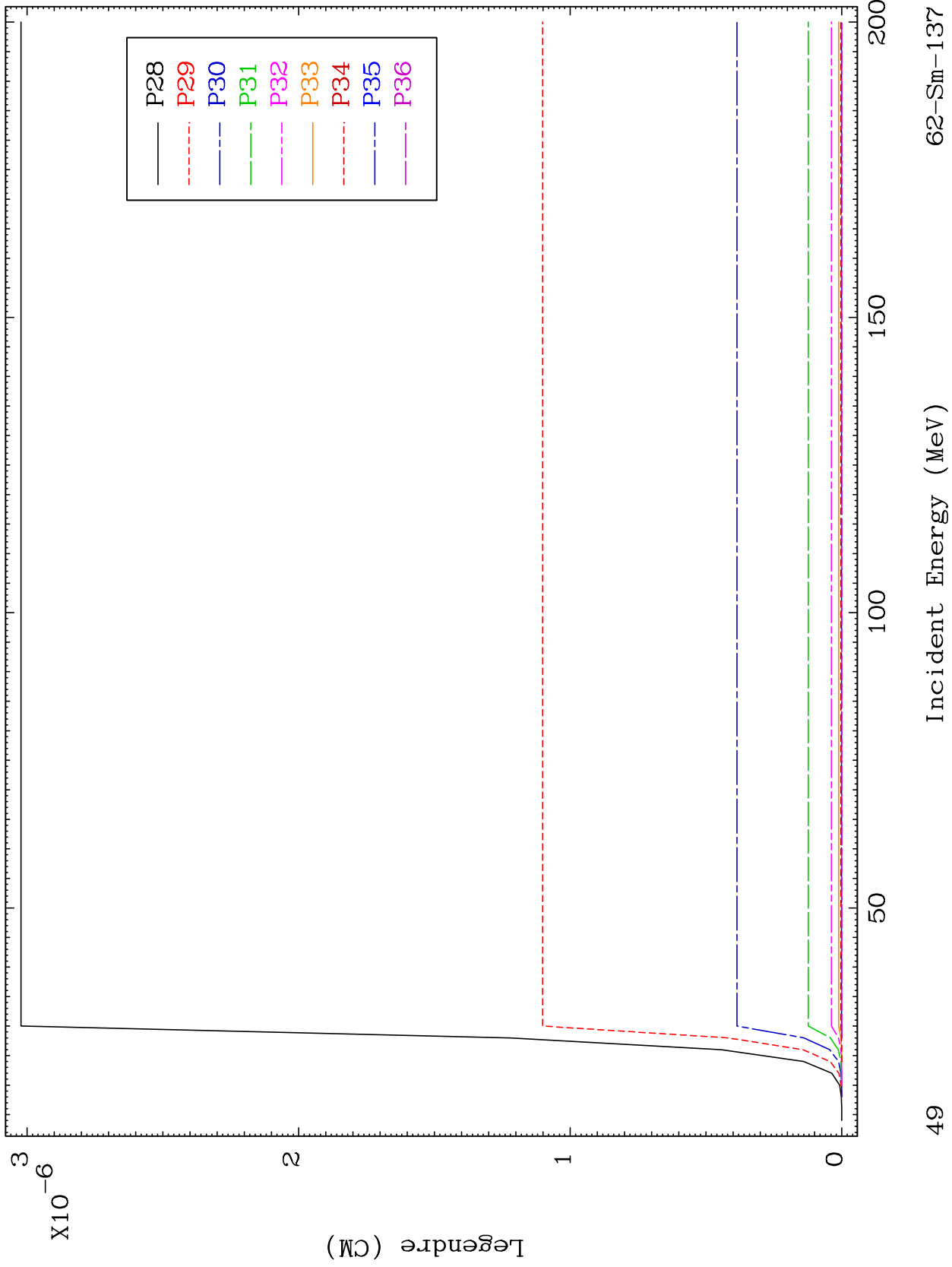
Incident Energy (MeV)

62-Sm-137

MAT 6204

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

62-Sm-137

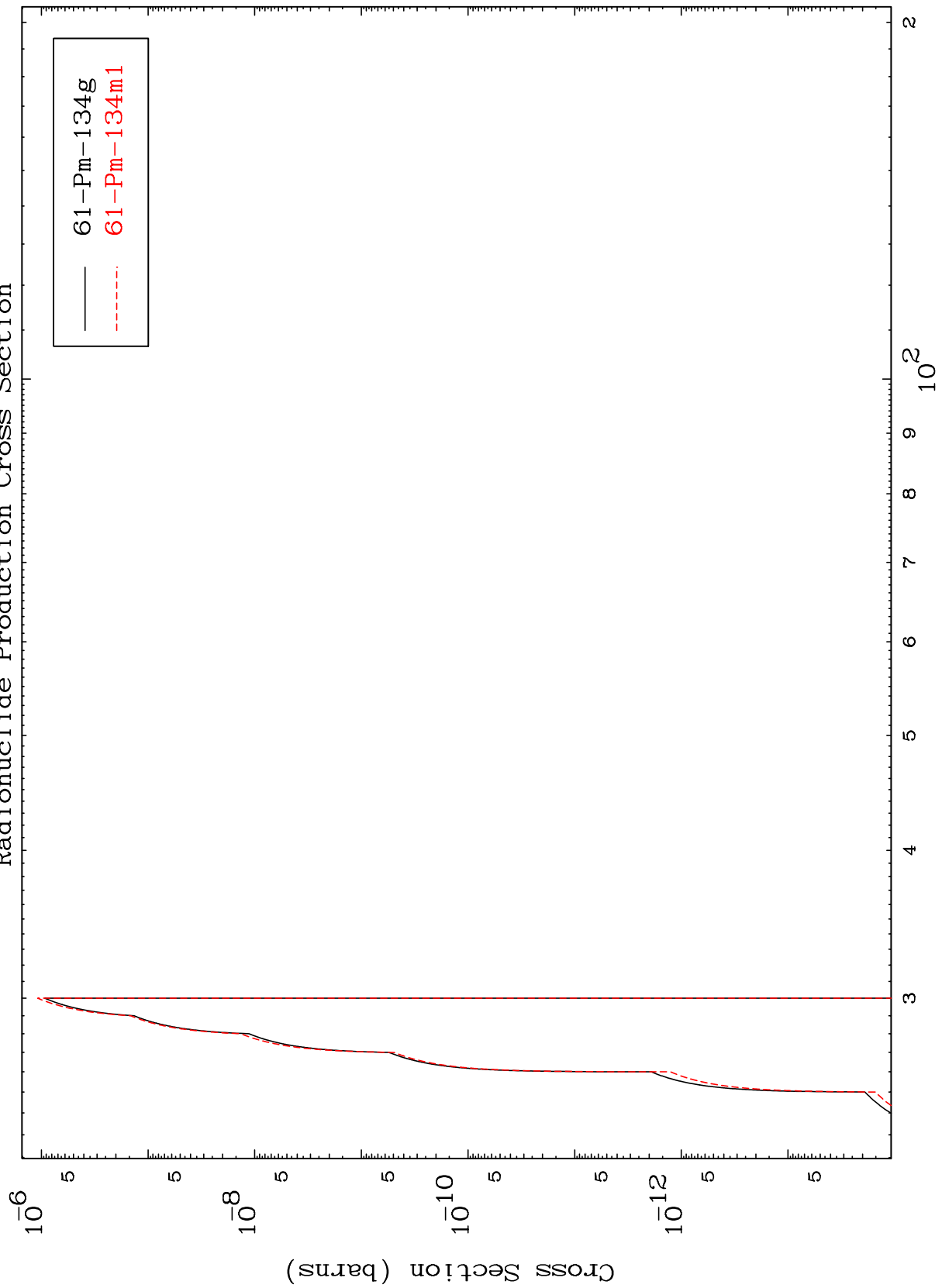


MAT 6204

(n,2n) d

62-Sm-137

Radionuclide Production Cross Section



61-Pm-134g
61-Pm-134m1

50

Incident Energy (MeV)

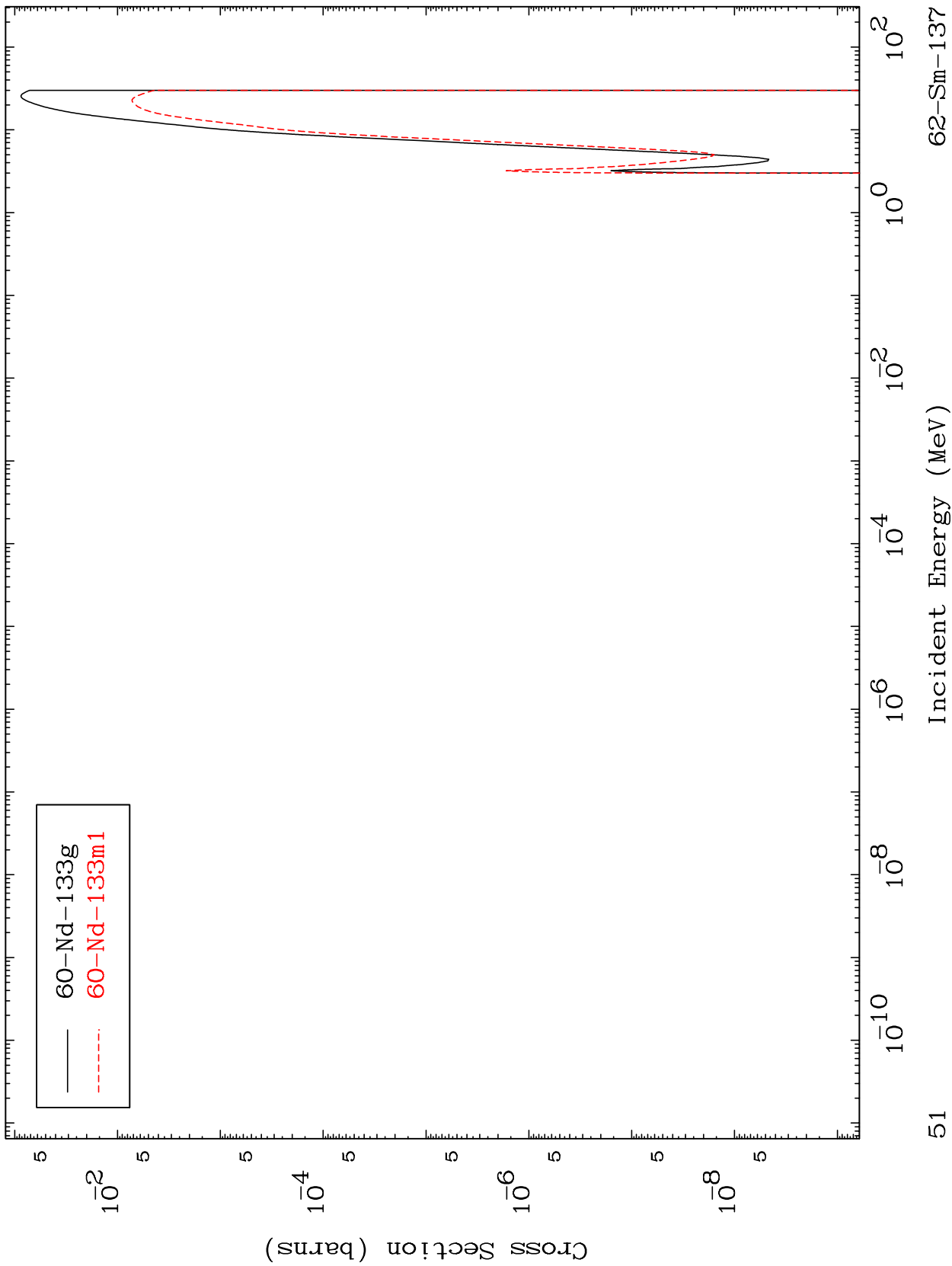
62-Sm-137

MAT 6204

$(n, n') \alpha$

$^{62}\text{Sm}-137$

Radionuclide Production Cross Section

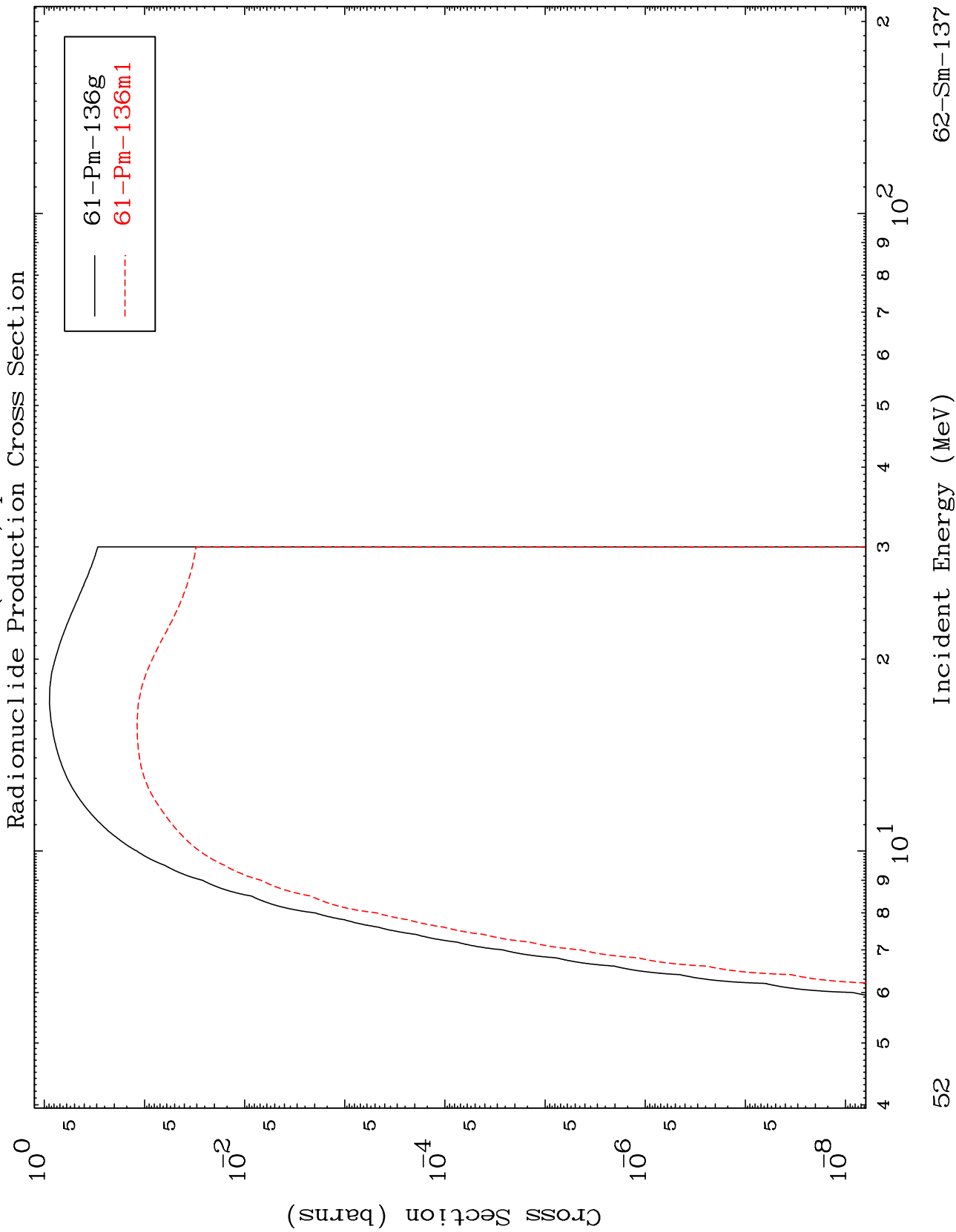


60-Nd-133g
60-Nd-133m1

MAT 6204

(n,n') p

62-Sm-137

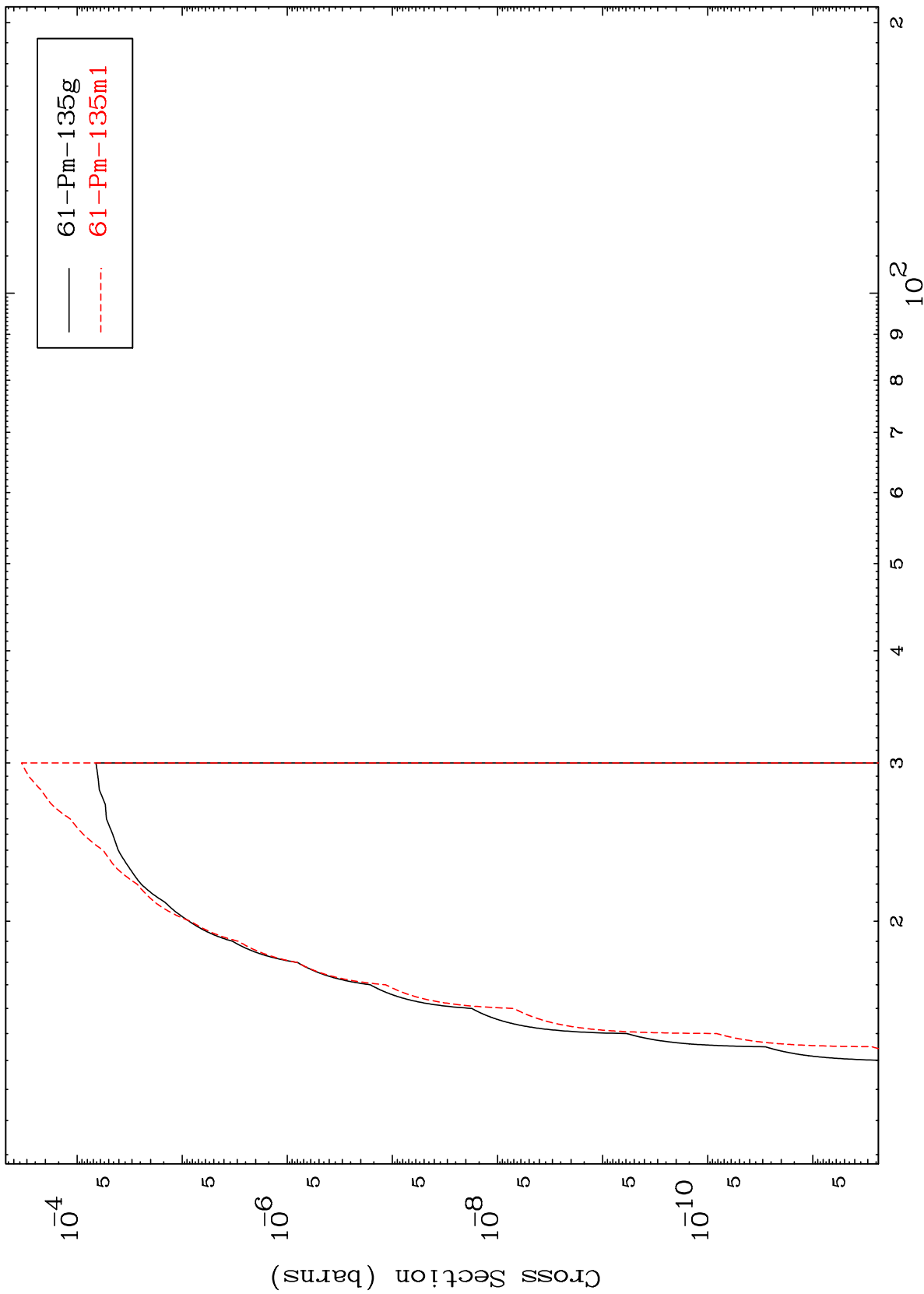


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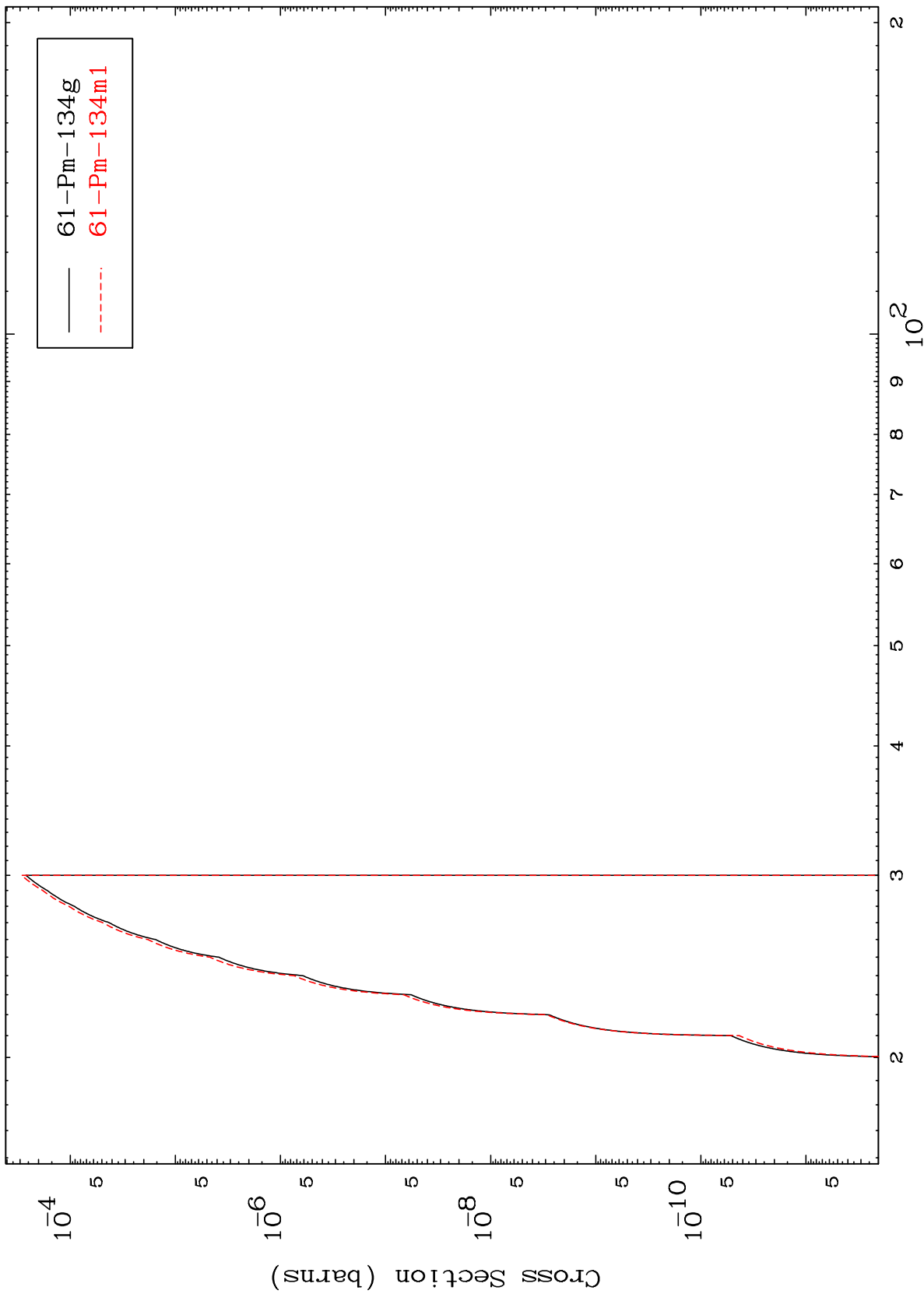
Incident Energy (MeV)

62-Sm-137

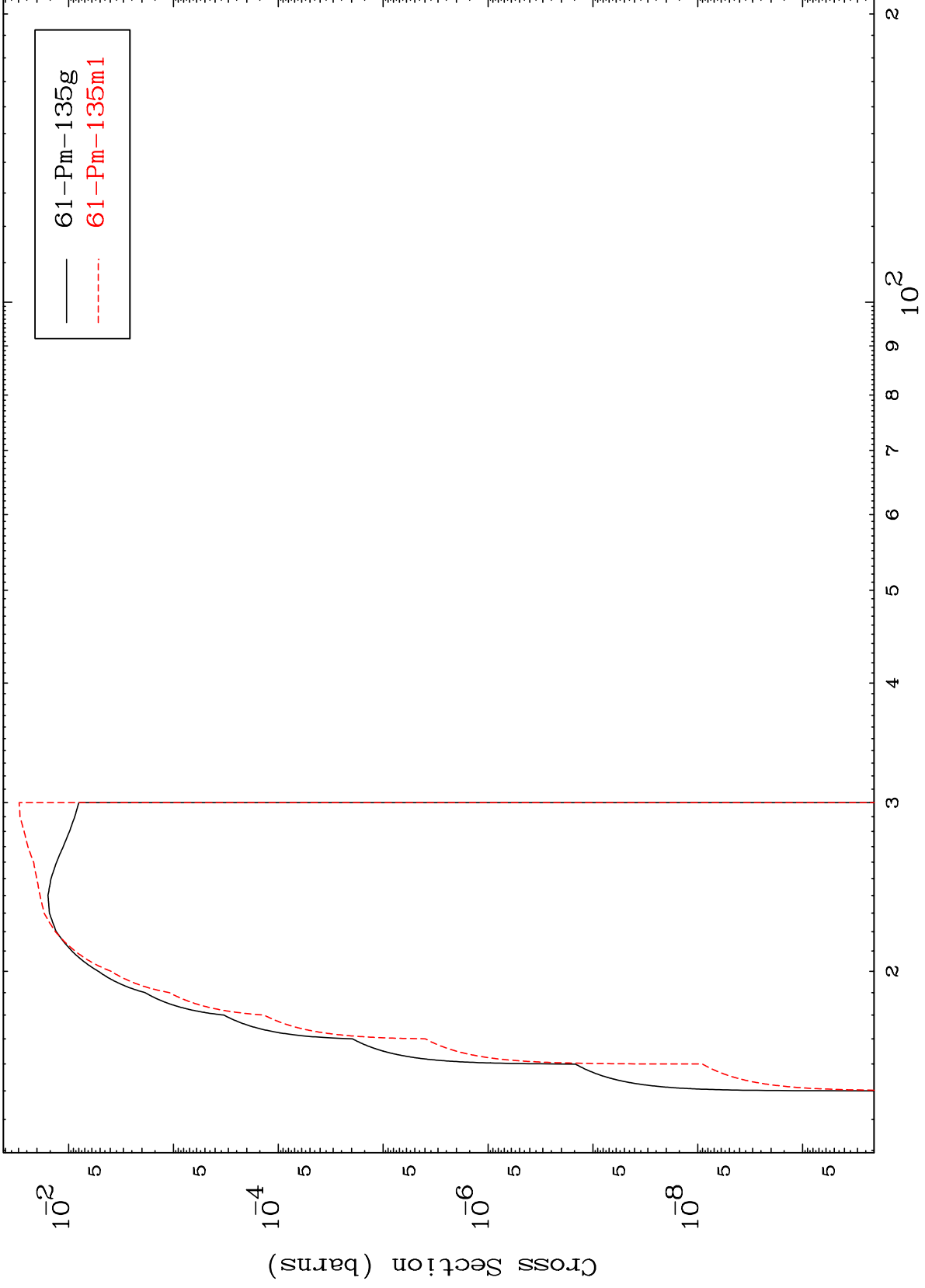
Radionuclide Production Cross Section



Radionuclide Production Cross Section



Radionuclide Production Cross Section

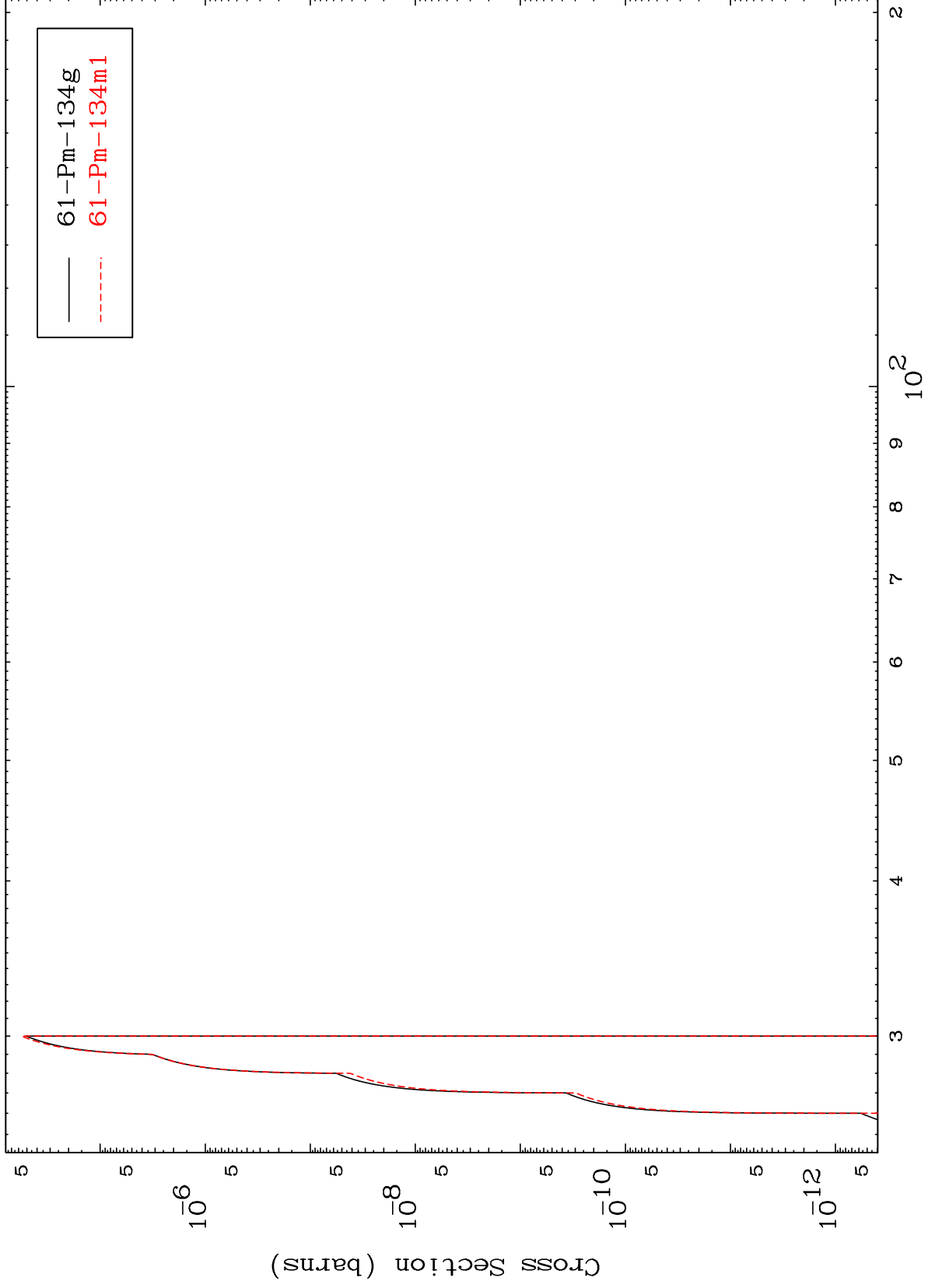


MAT 6204

(n,3n) p

62-Sm-137

Radionuclide Production Cross Section



56

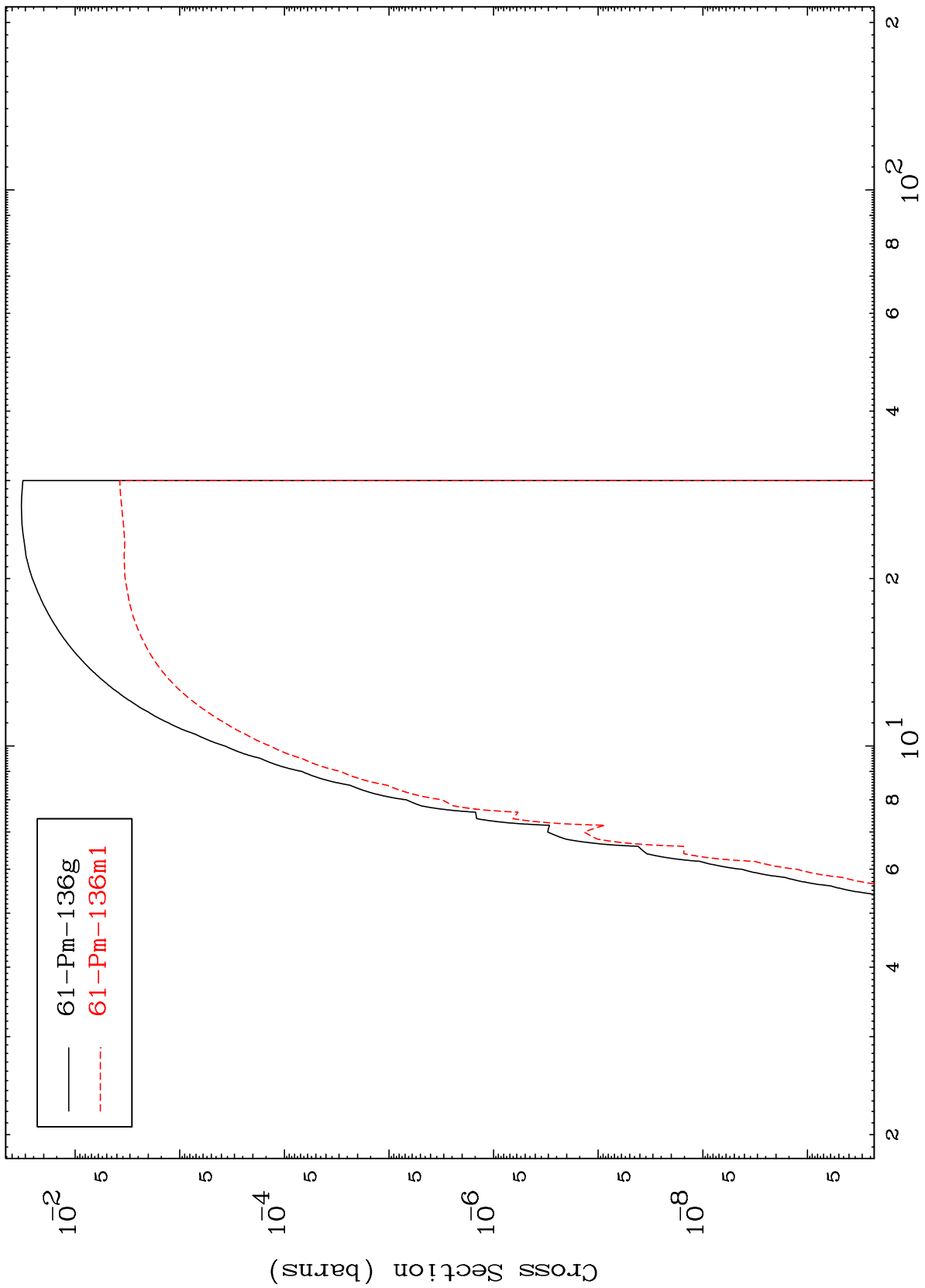
Incident Energy (MeV)

62-Sm-137

MAT 6204

62-Sm-137

(n,d)
Radionuclide Production Cross Section



57

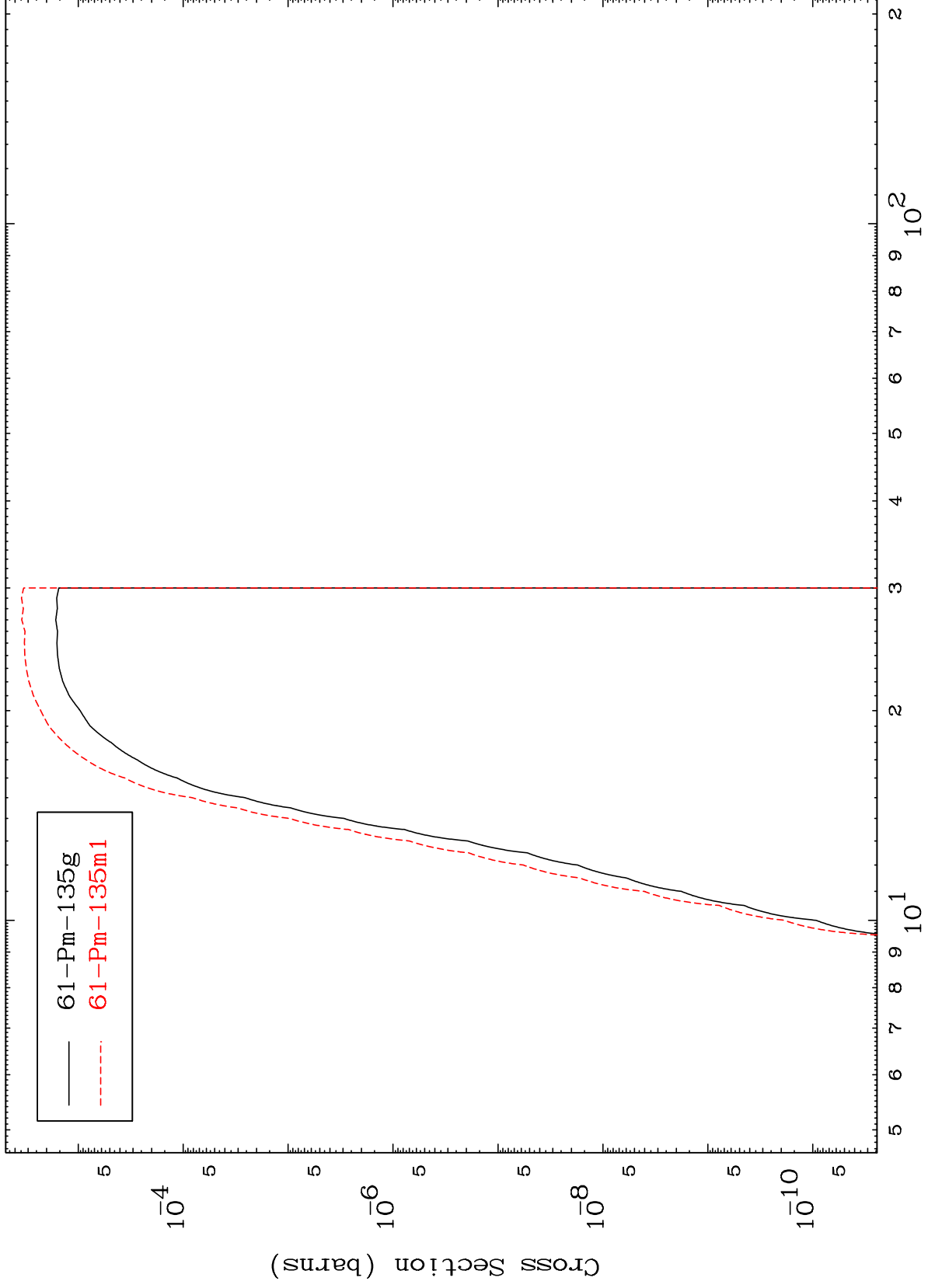
Incident Energy (MeV)

62-Sm-137

MAT 6204

62-Sm-137

(n, t)
Radionuclide Production Cross Section



58

Incident Energy (MeV)

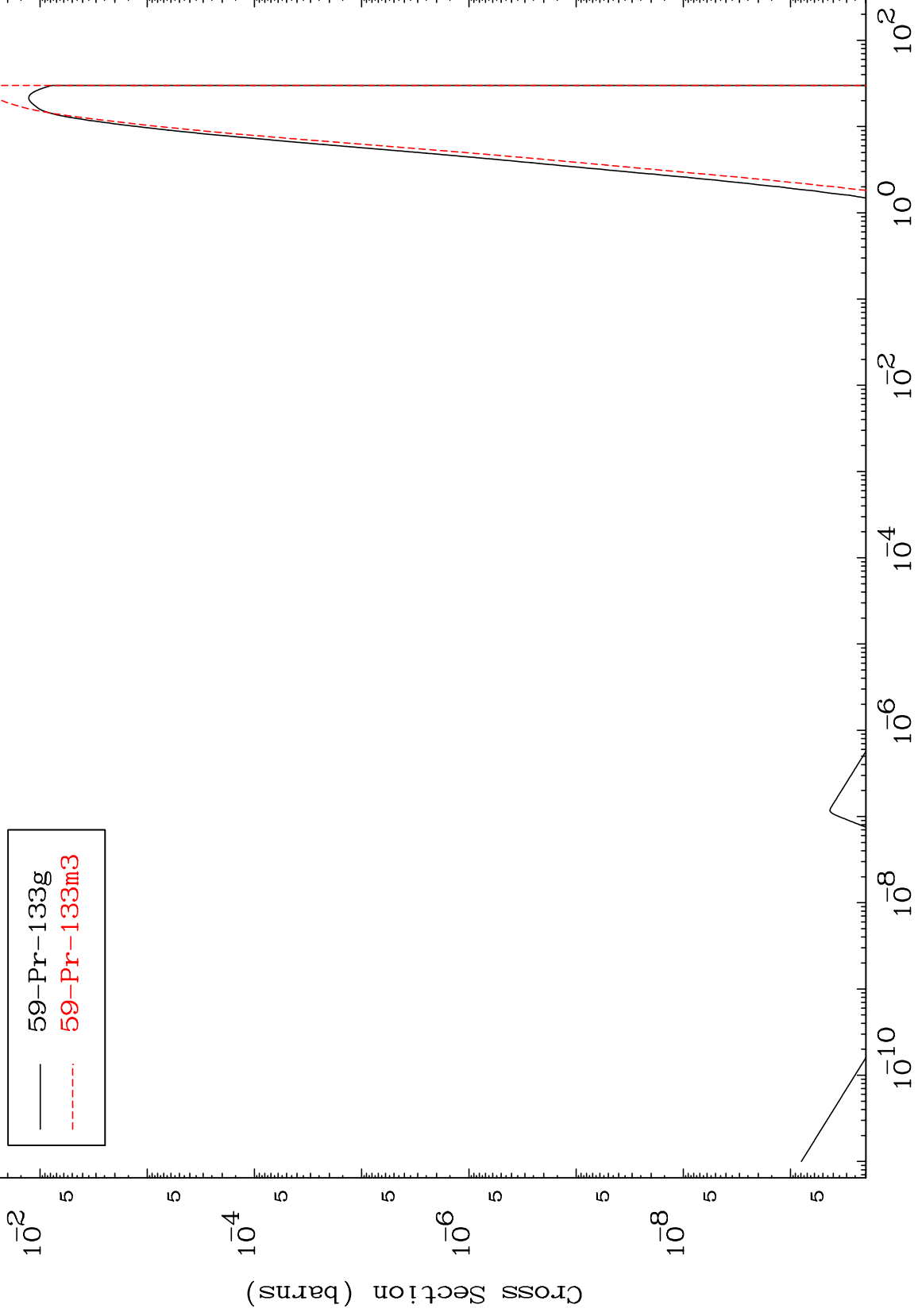
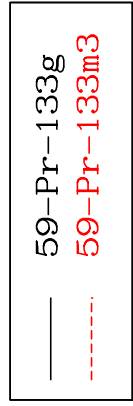
62-Sm-137

MAT 6204

(n,p) α

62-Sm-137

Radionuclide Production Cross Section



59

Incident Energy (MeV)

62-Sm-137