

Program EVALPLOT
(Version 2015-2)

by

Dermott E. Cullen
(Present Contact Information)

Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.

Tele: 925-443-1911

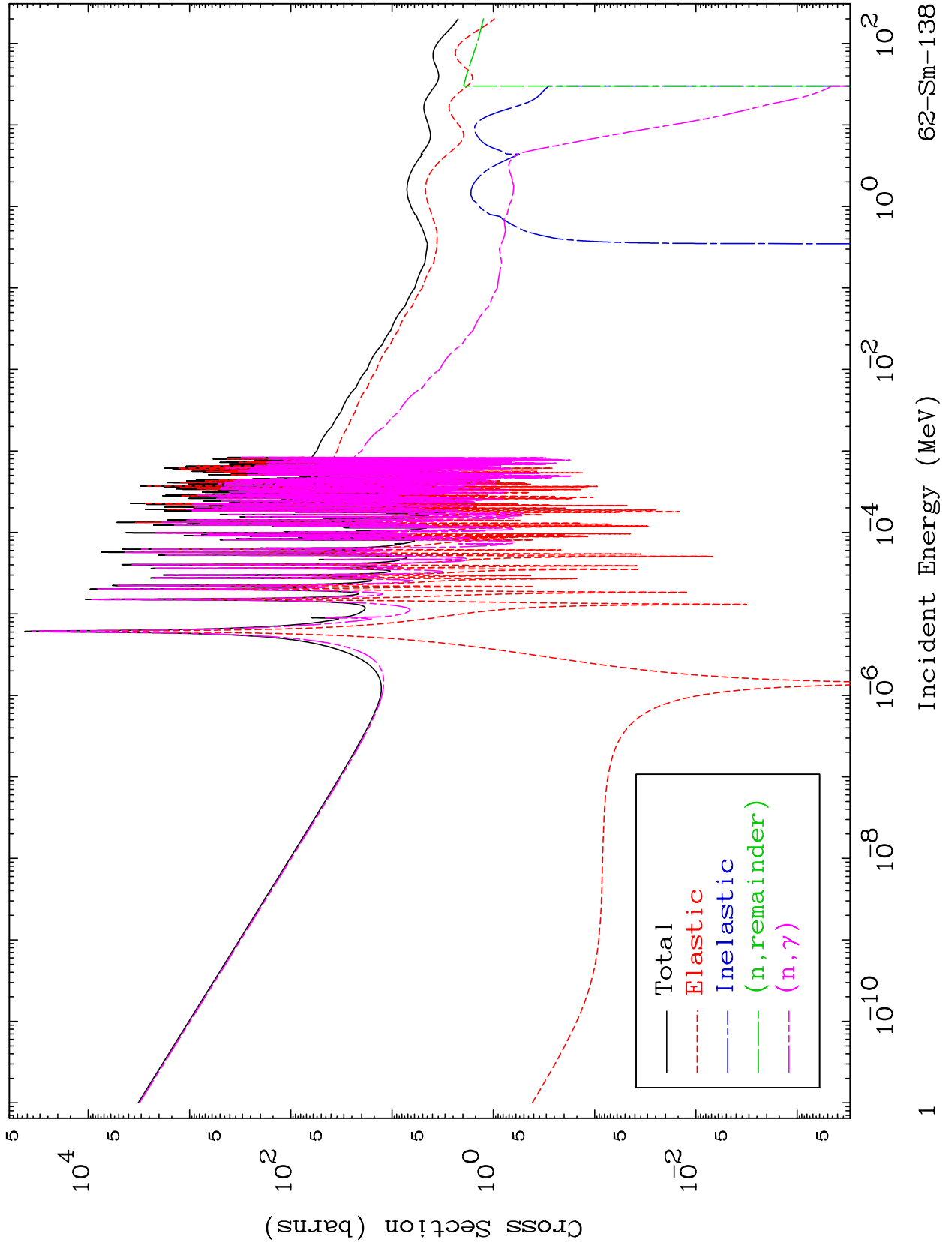
E.Mail:redcullen1@comcast.net
Web:home.comcast.net/~redcullen1

Press Mouse Button to Start

MAT 6207

Major
293 Kelvin Cross Sections

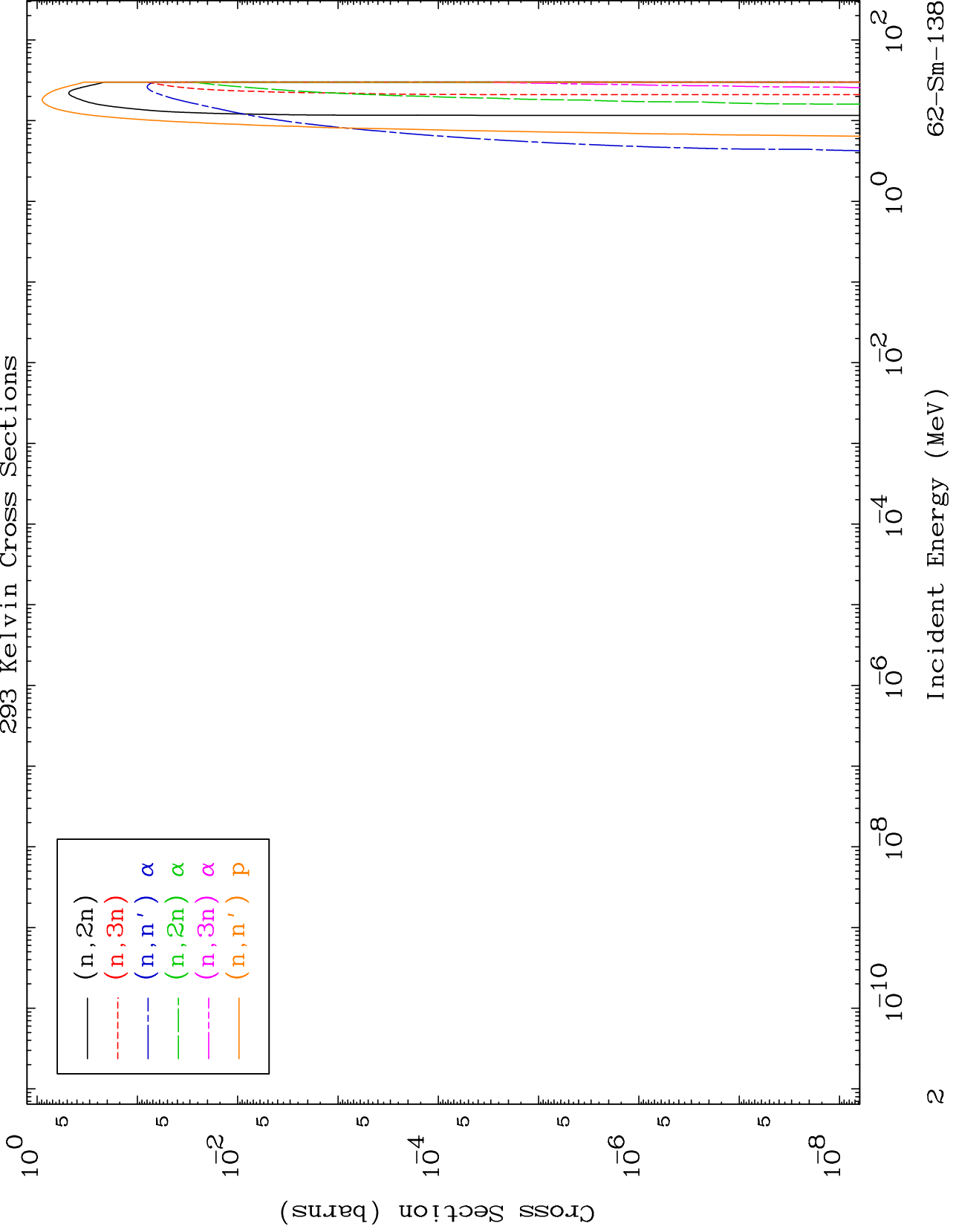
62-Sm-138



MAT 6207

Neutron Production
293 Kelvin Cross Sections

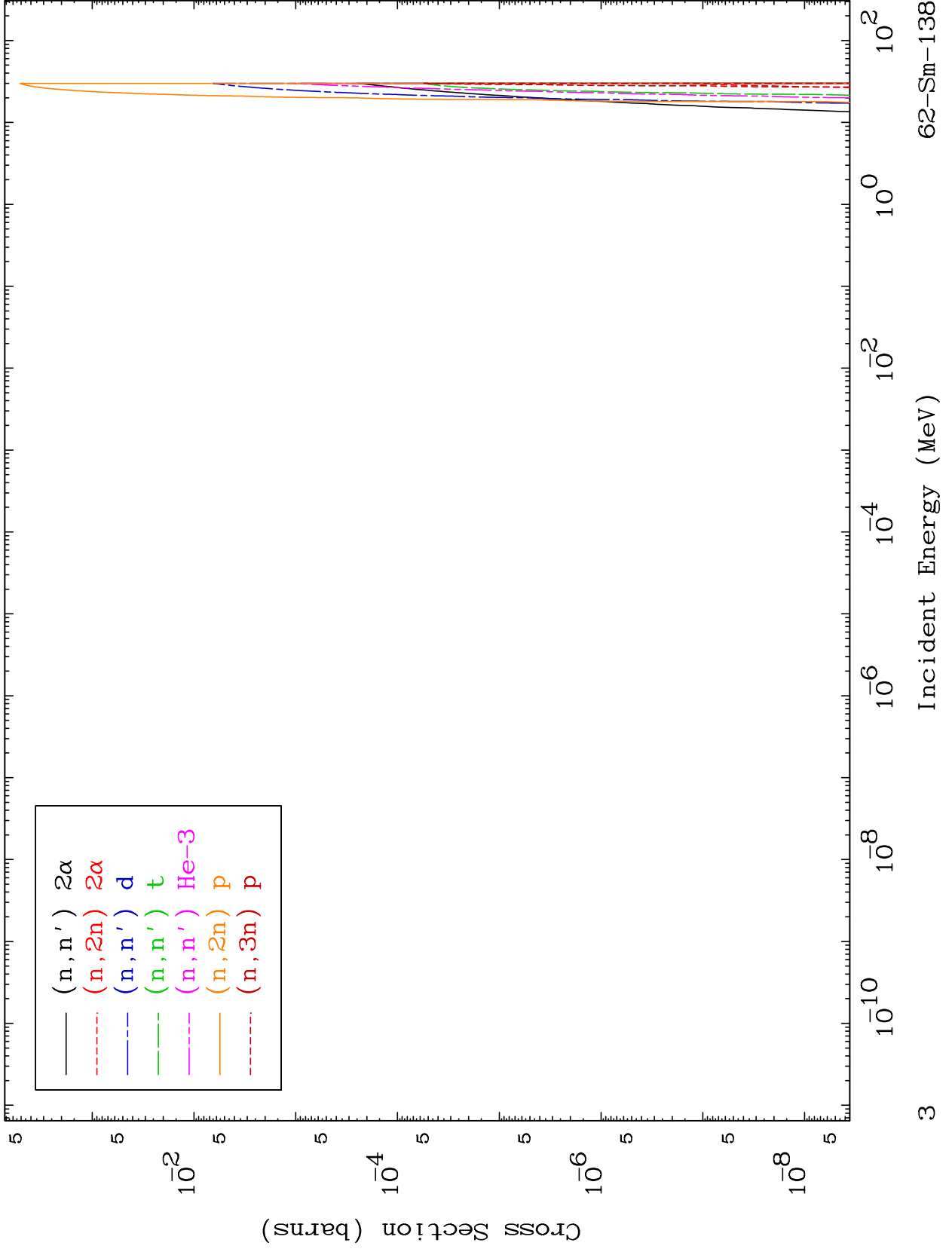
62-Sm-138



MAT 6207

Neutron Production
293 Kelvin Cross Sections

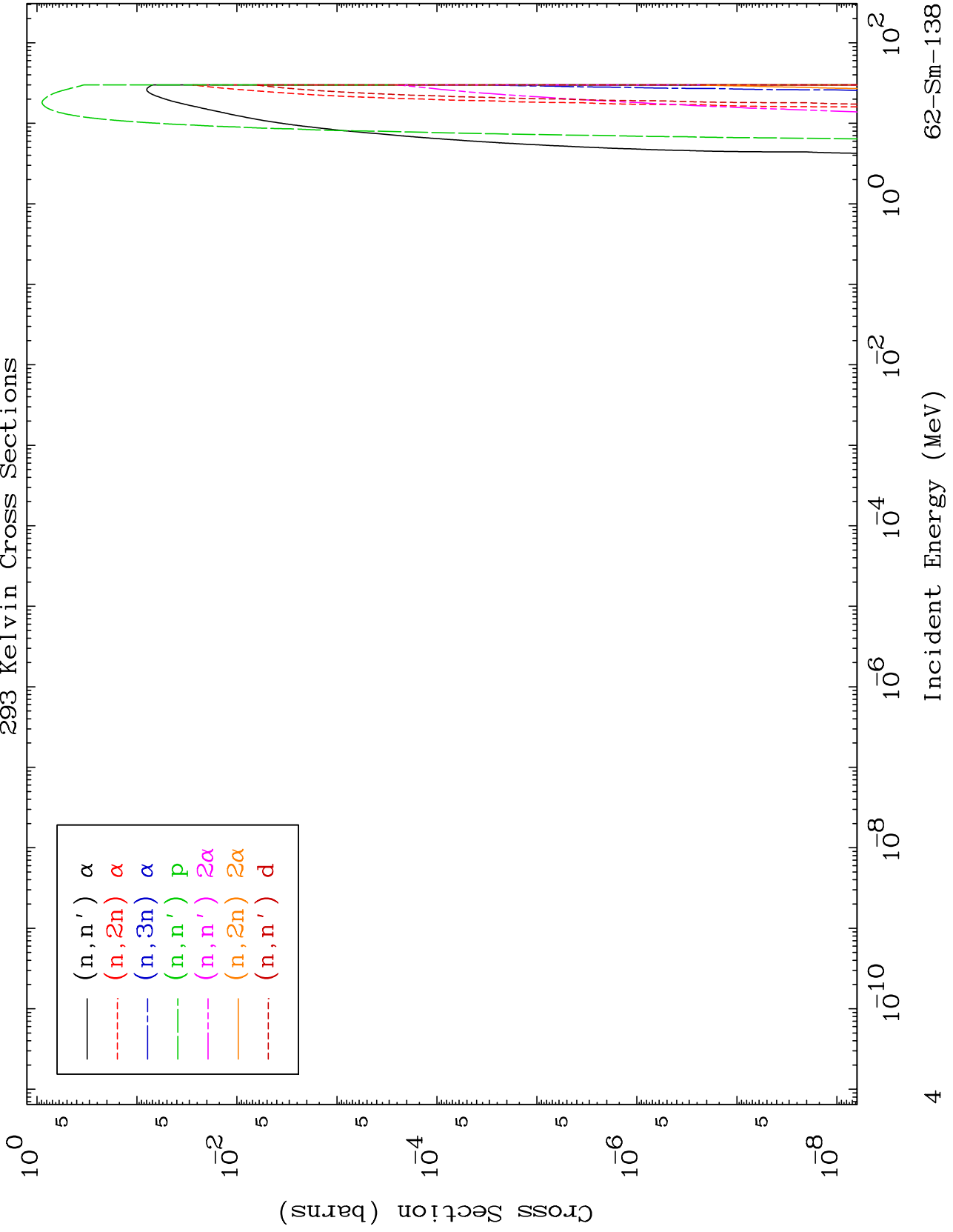
62-Sm-138



MAT 6207

Charged Particle
293 Kelvin Cross Sections

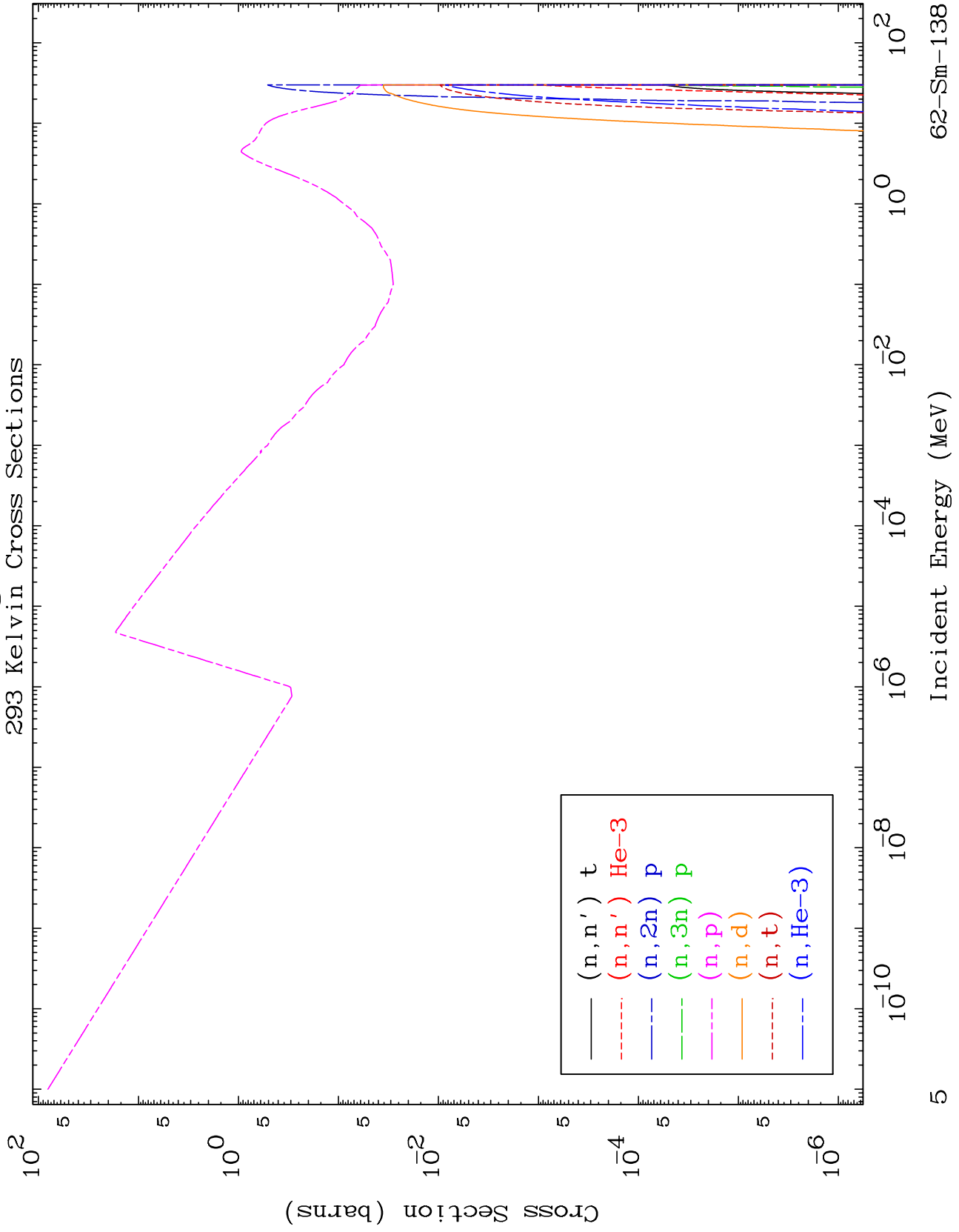
62-Sm-138



MAT 6207

Charged Particle
293 Kelvin Cross Sections

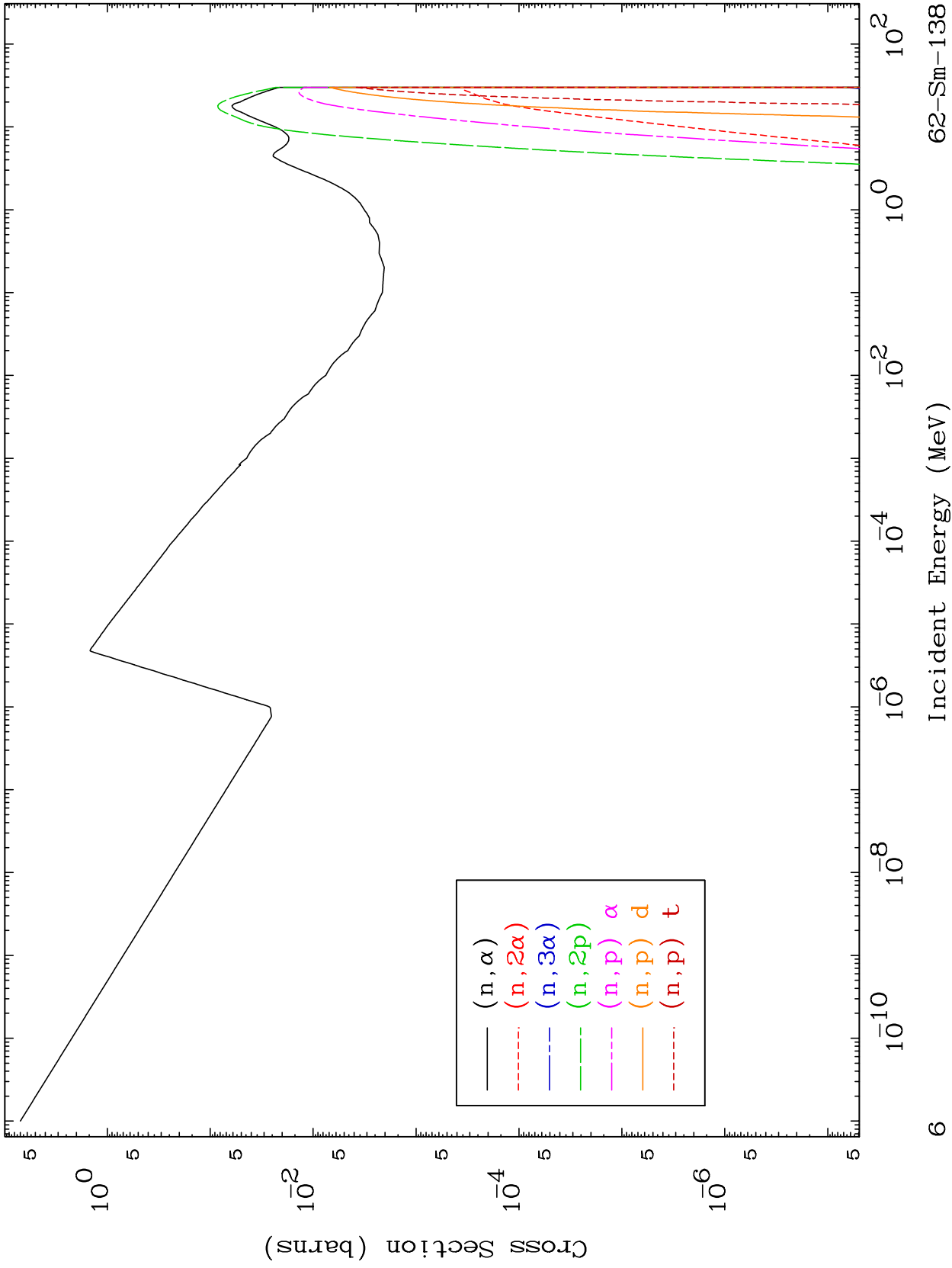
62-Sm-138



MAT 6207

Charged Particle
293 Kelvin Cross Sections

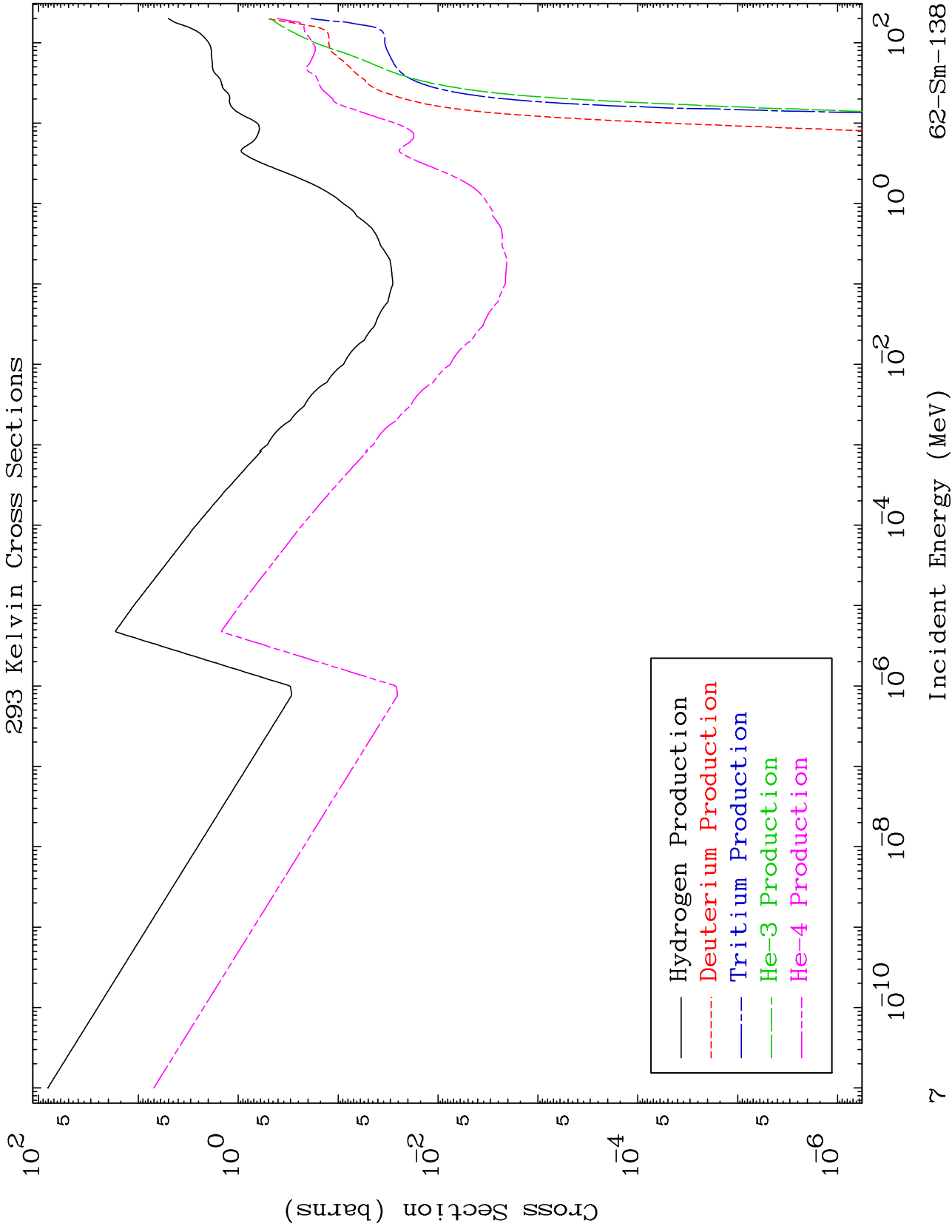
62-Sm-138



MAT 6207

Particle Production
293 Kelvin Cross Sections

62-Sm-138

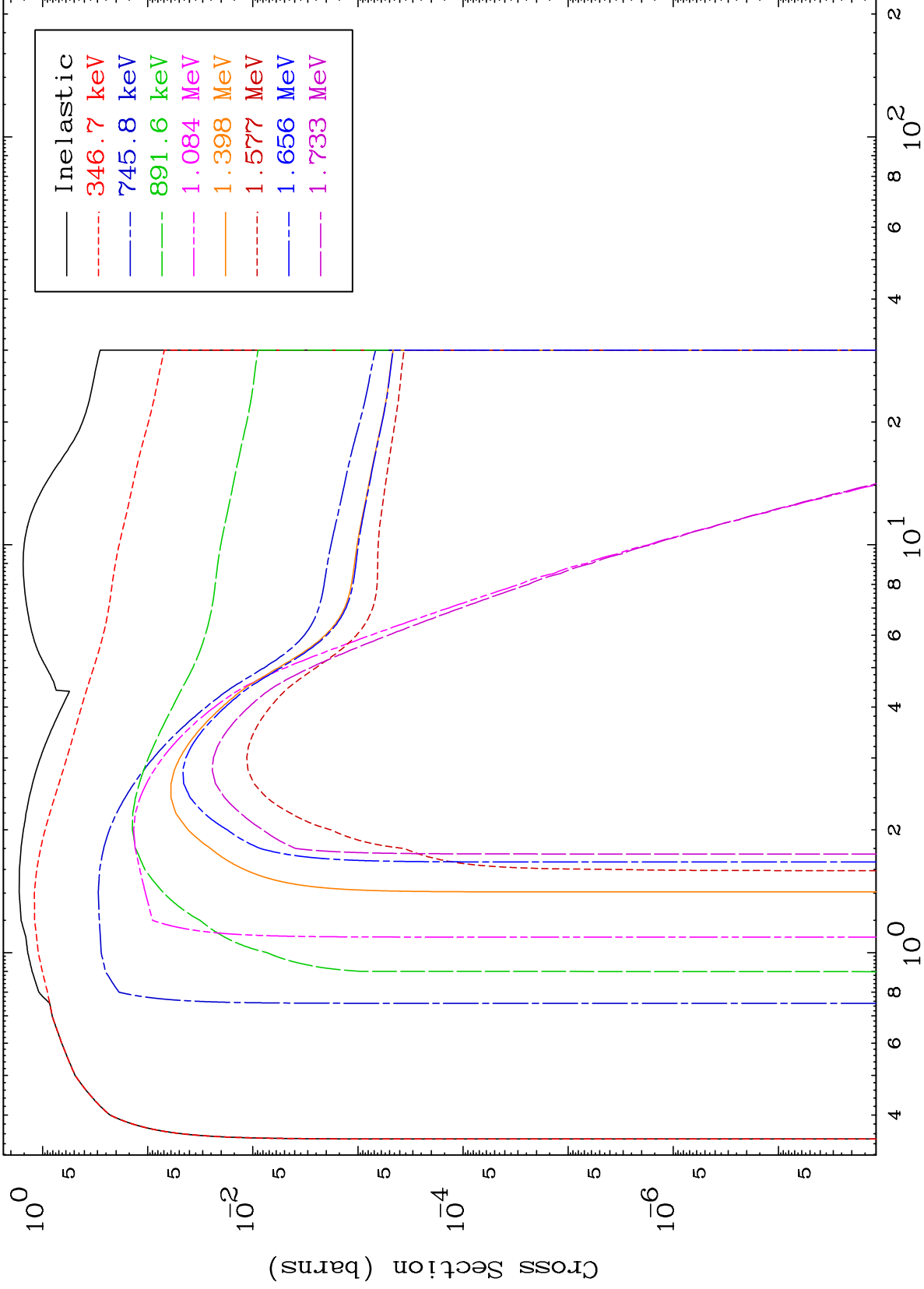


MAT 6207

(n,n') Level

62-Sm-138

293 Kelvin Cross Sections



8

Incident Energy (MeV)

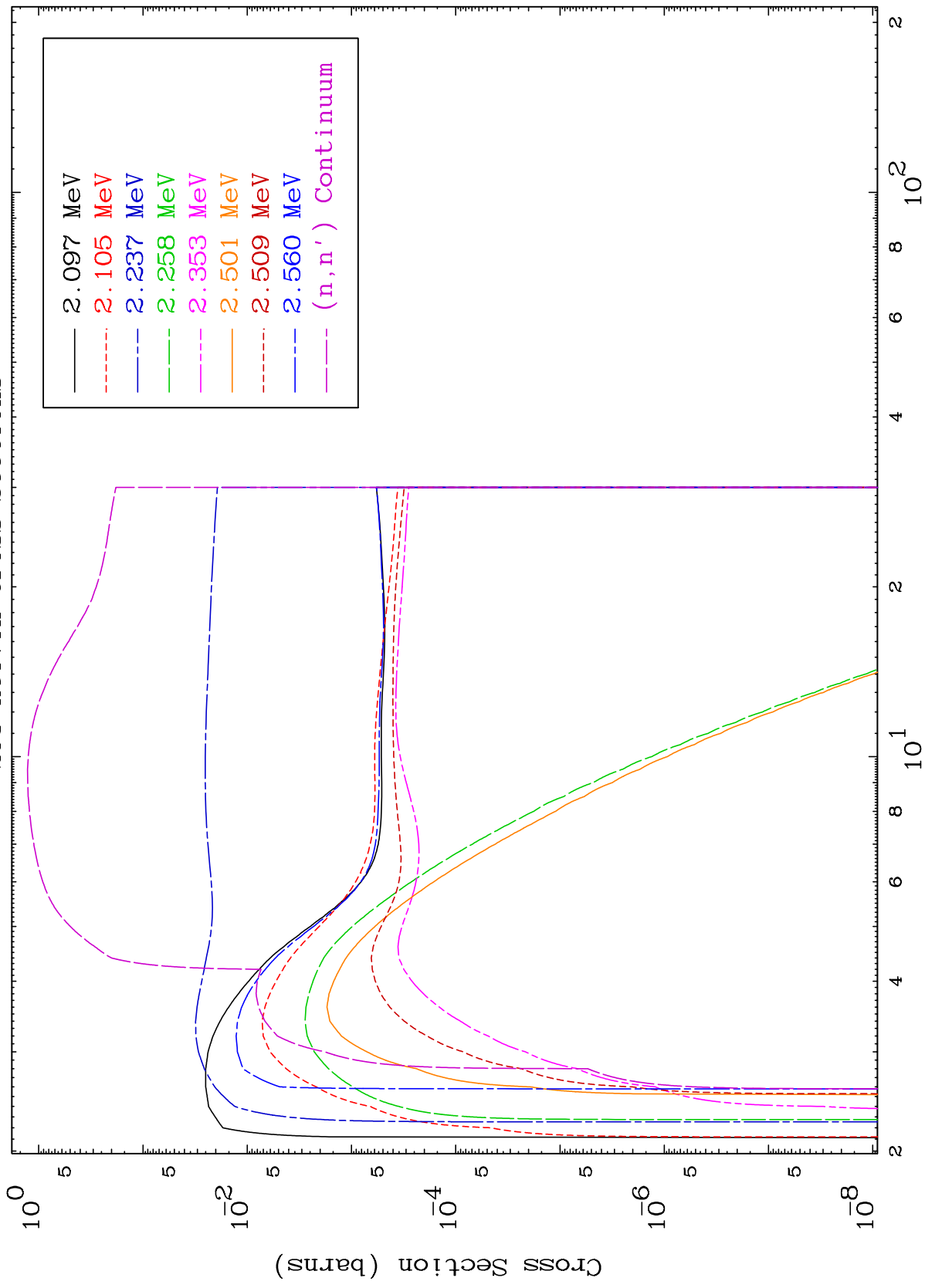
62-Sm-138

MAT 6207

(n,n') Level

62-Sm-138

293 Kelvin Cross Sections



9

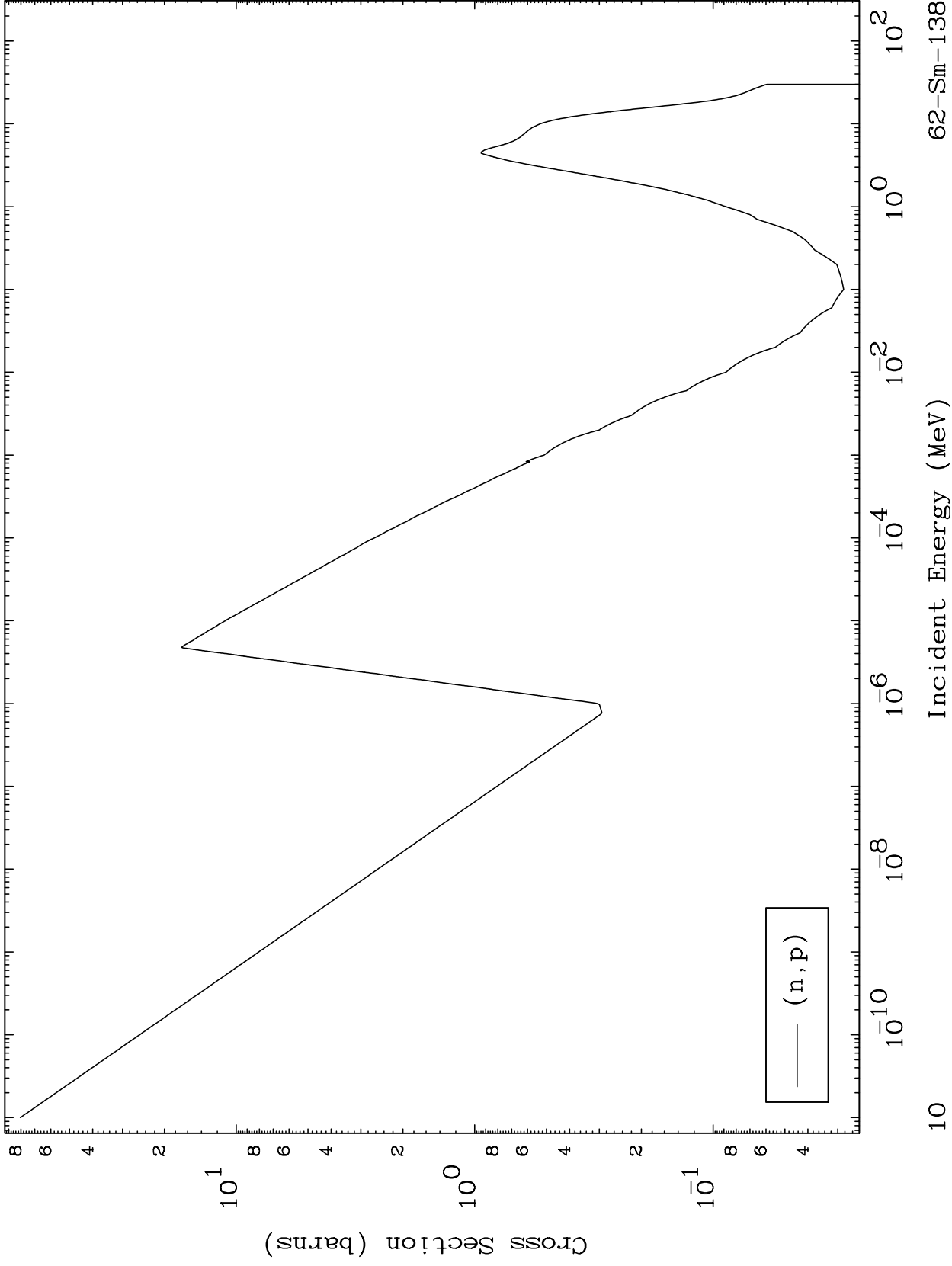
Incident Energy (MeV)

62-Sm-138

MAT 6207

(n,p) Levels
293 Kelvin Cross Sections

62-Sm-138



10

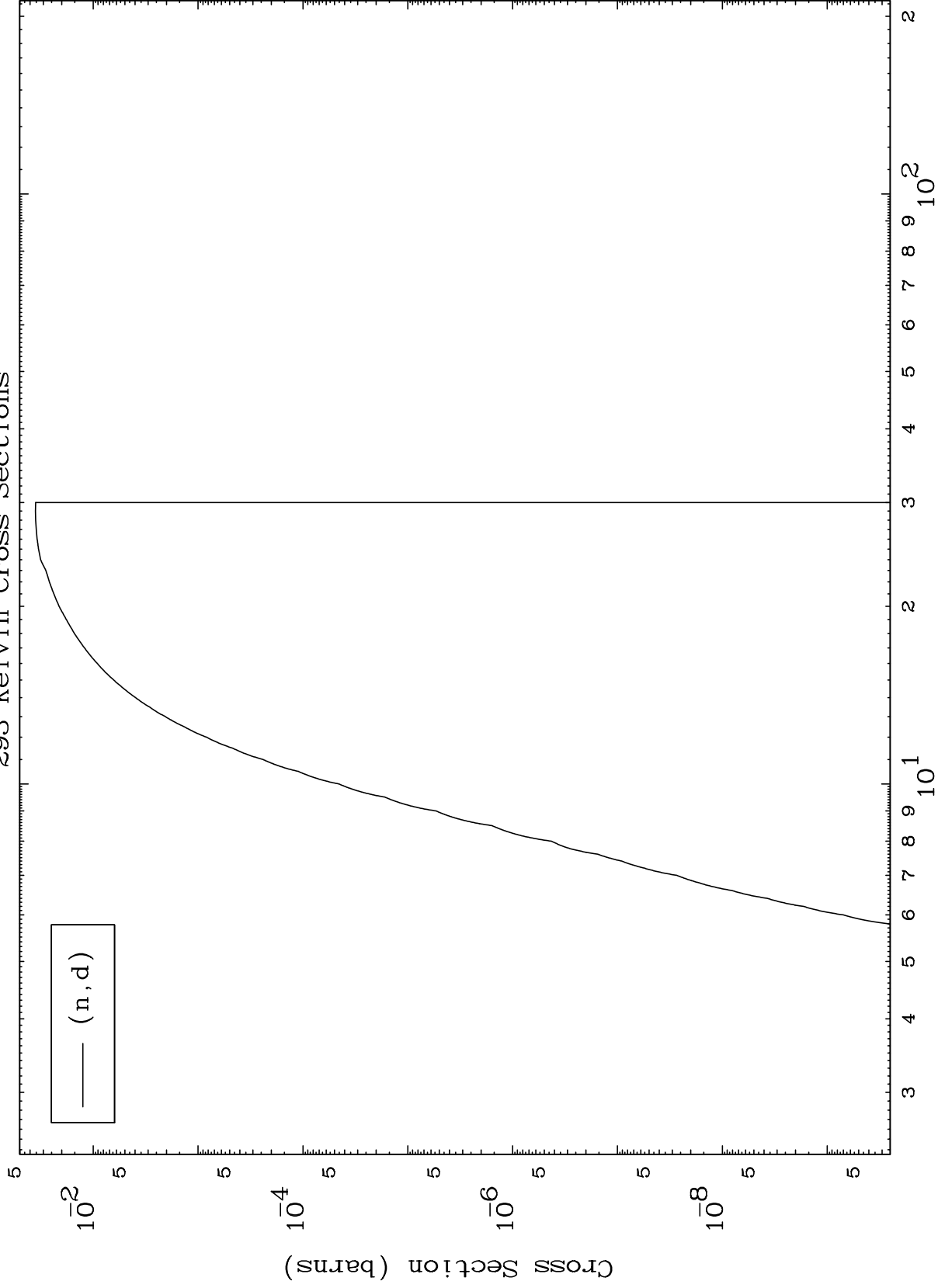
Incident Energy (MeV)

62-Sm-138

MAT 6207

(n,d) Levels
293 Kelvin Cross Sections

62-Sm-138



11

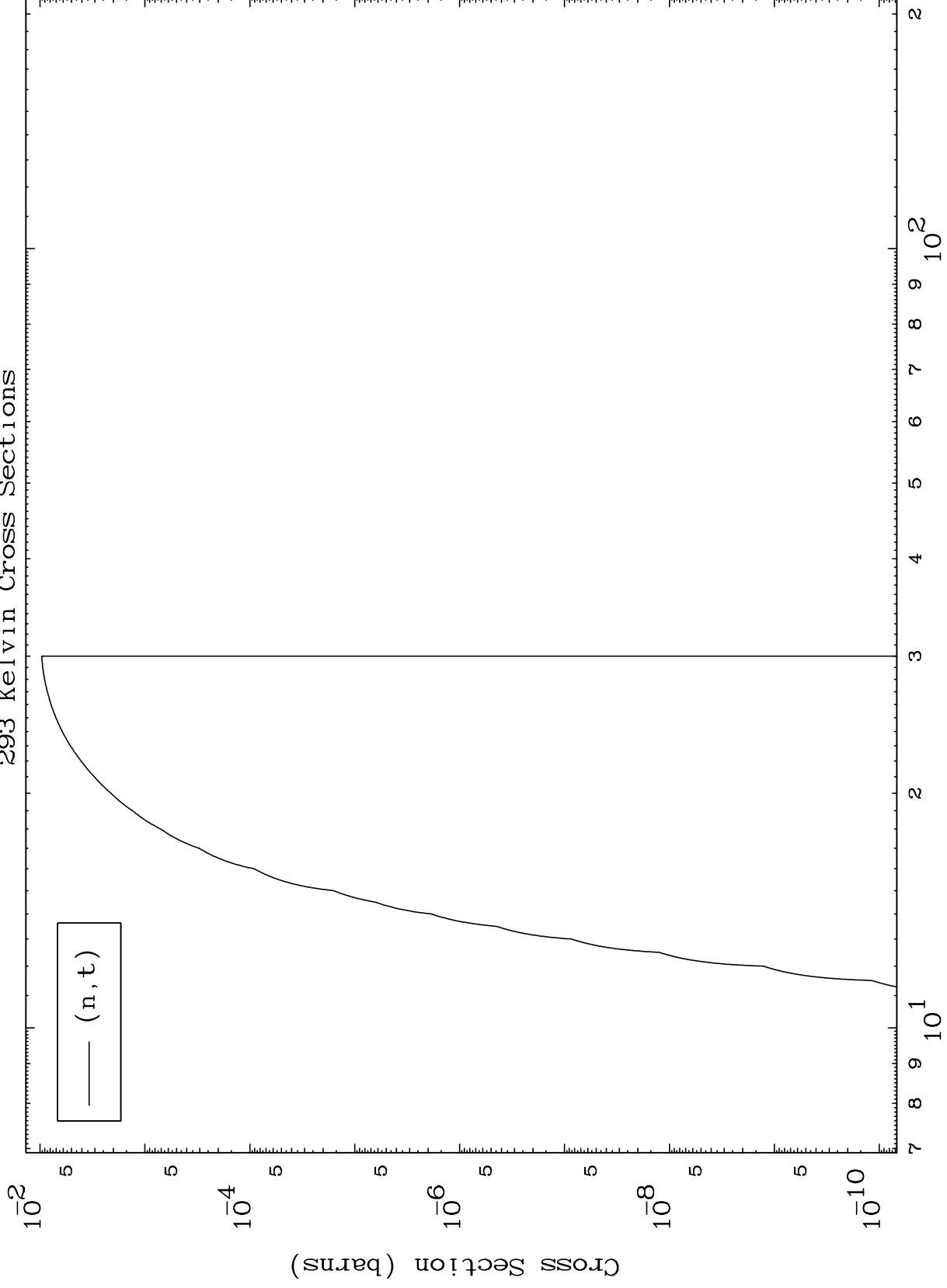
Incident Energy (MeV)

62-Sm-138

MAT 6207

(n,t) Levels
293 Kelvin Cross Sections

62-Sm-138



12

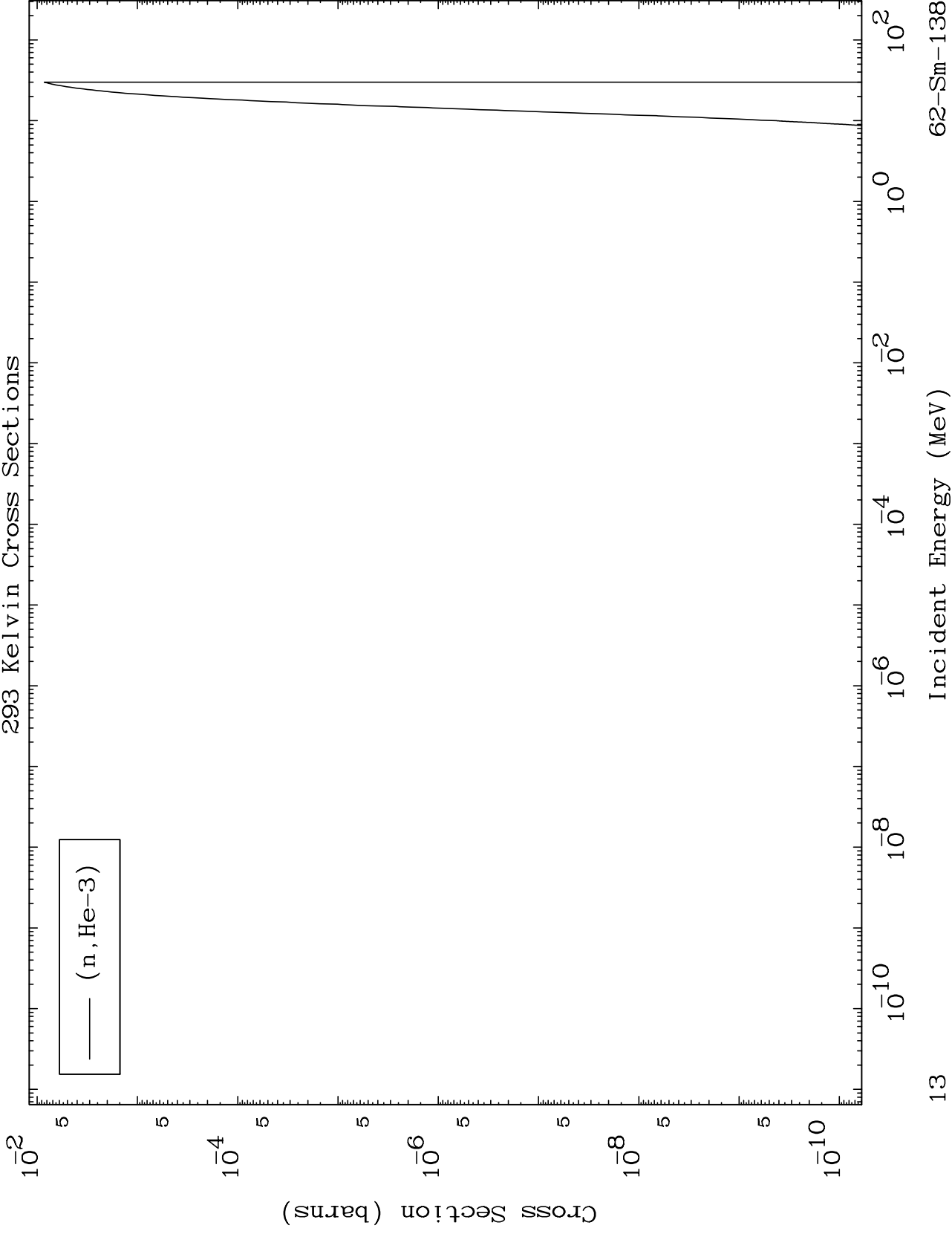
Incident Energy (MeV)

62-Sm-138

MAT 6207

(n,He3) Levels
293 Kelvin Cross Sections

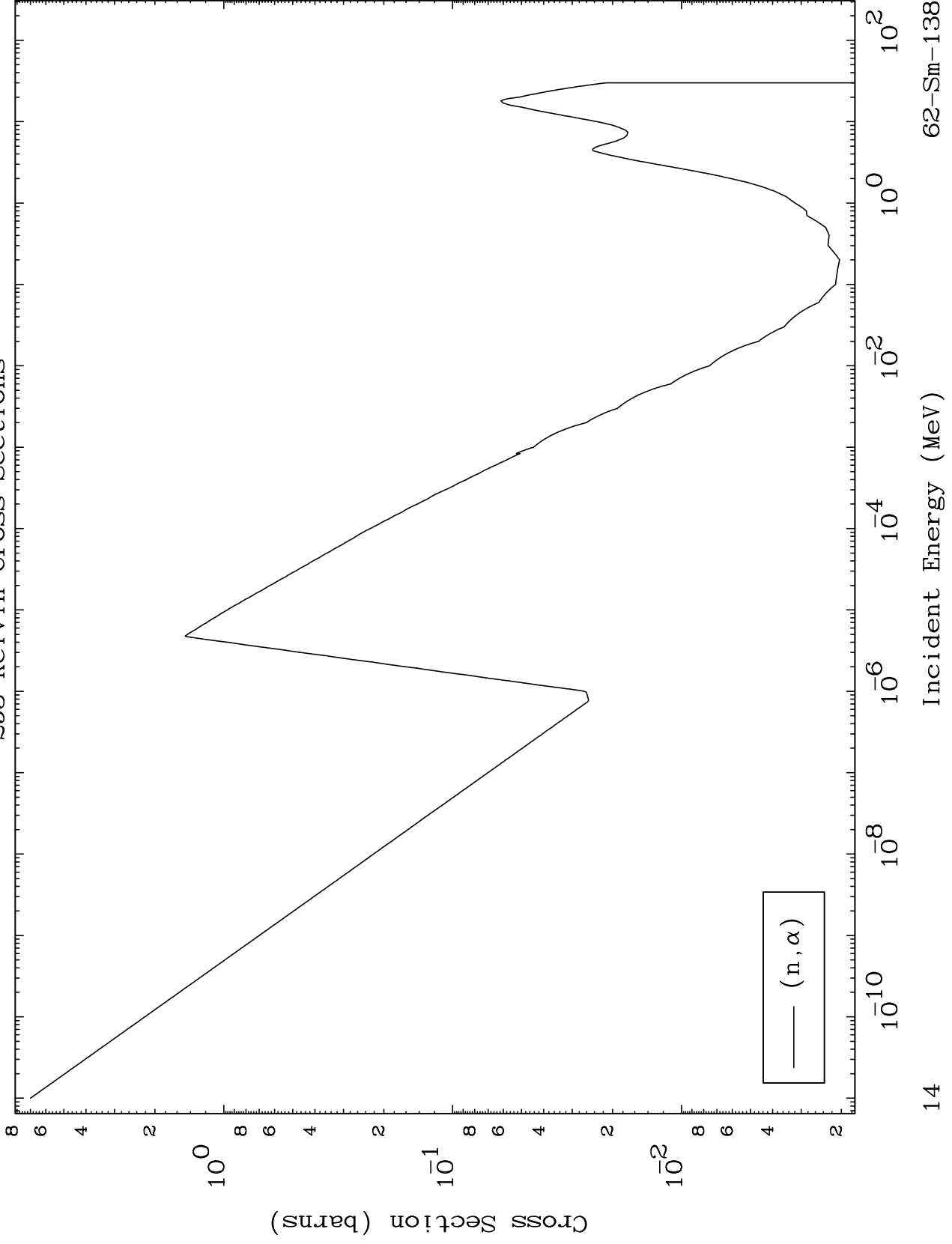
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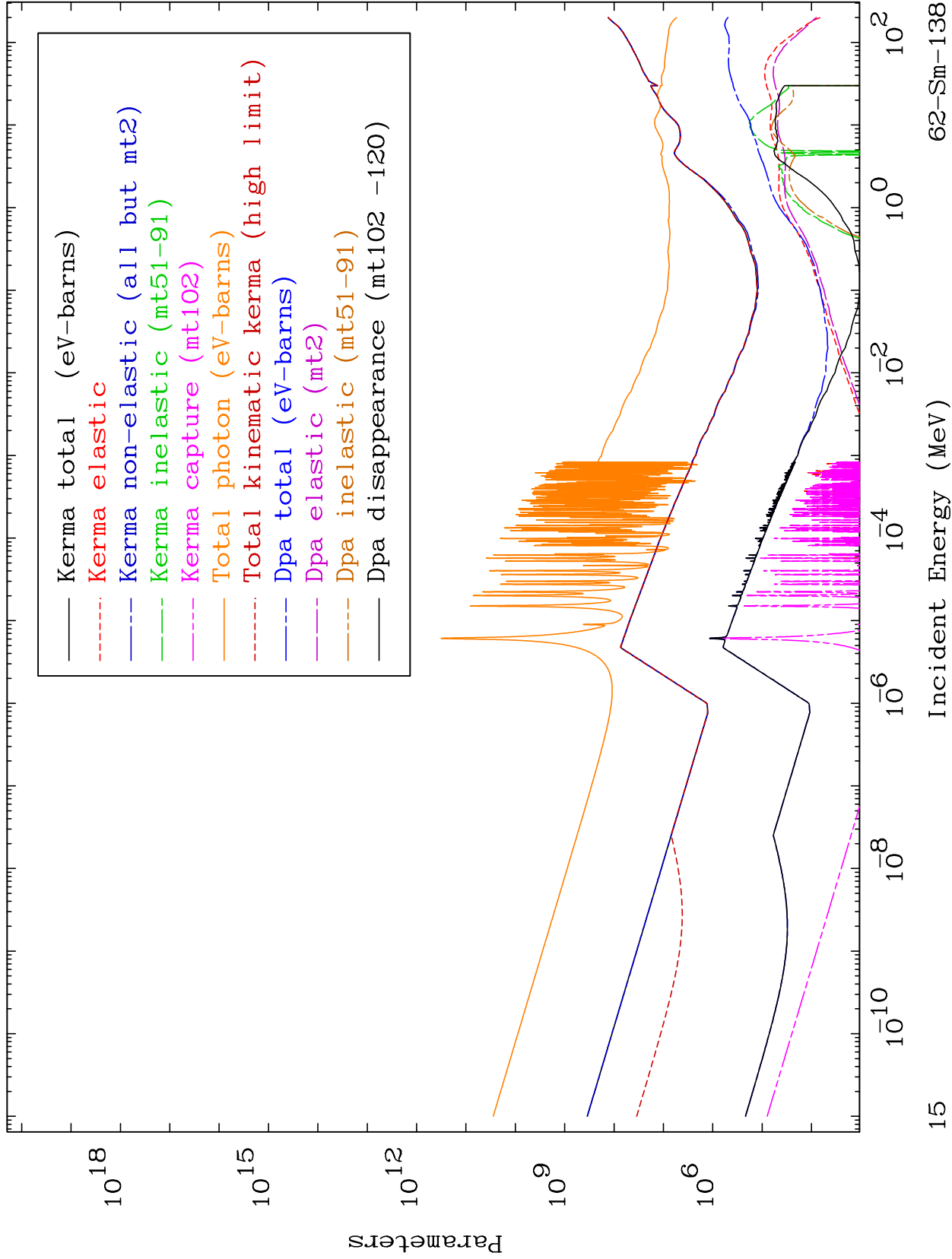


MAT 6207

(n,α) Levels
293 Kelvin Cross Sections

62-Sm-138

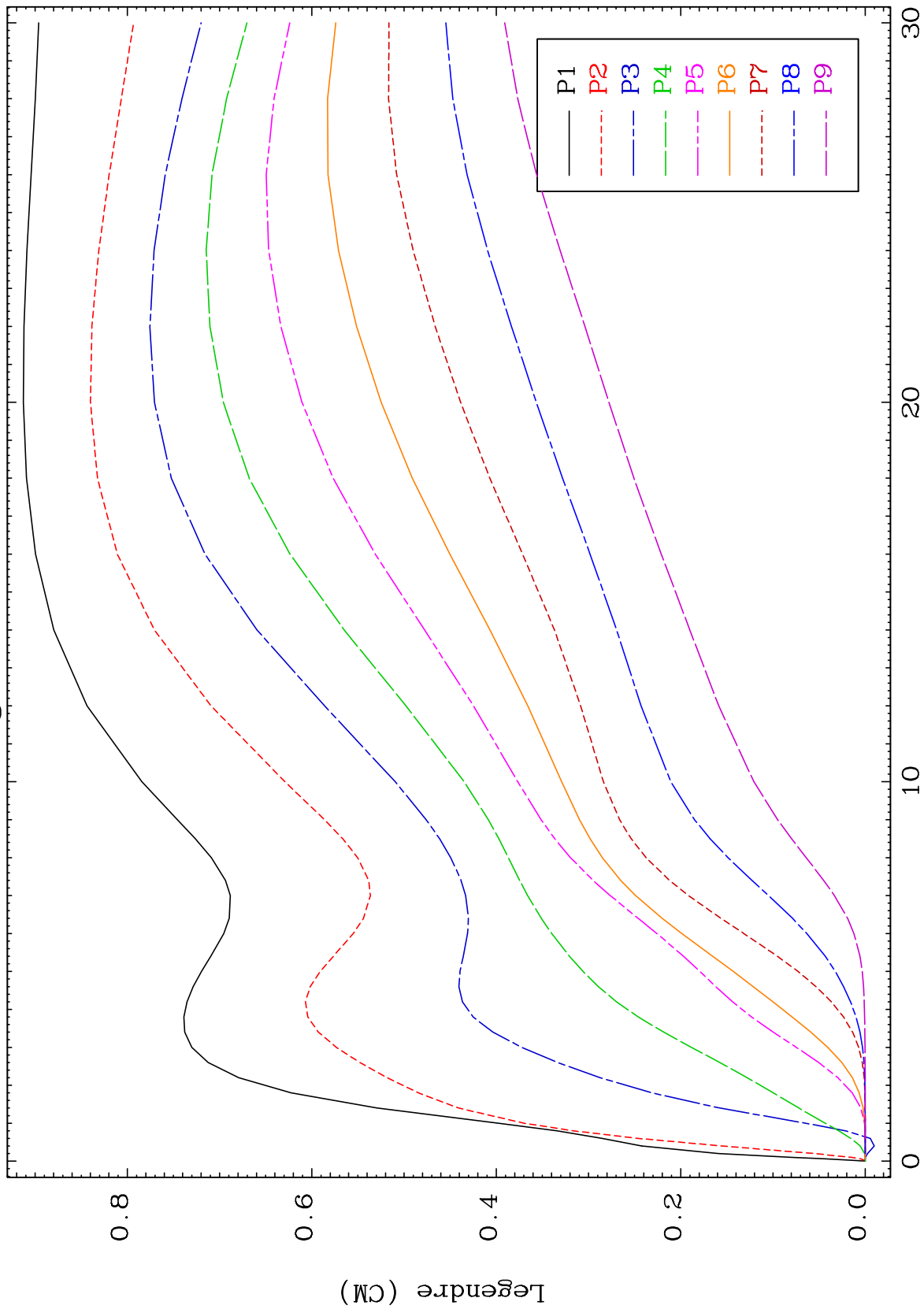




MAT 6207

Elastic Legendre Coefficients

62-Sm-138



16

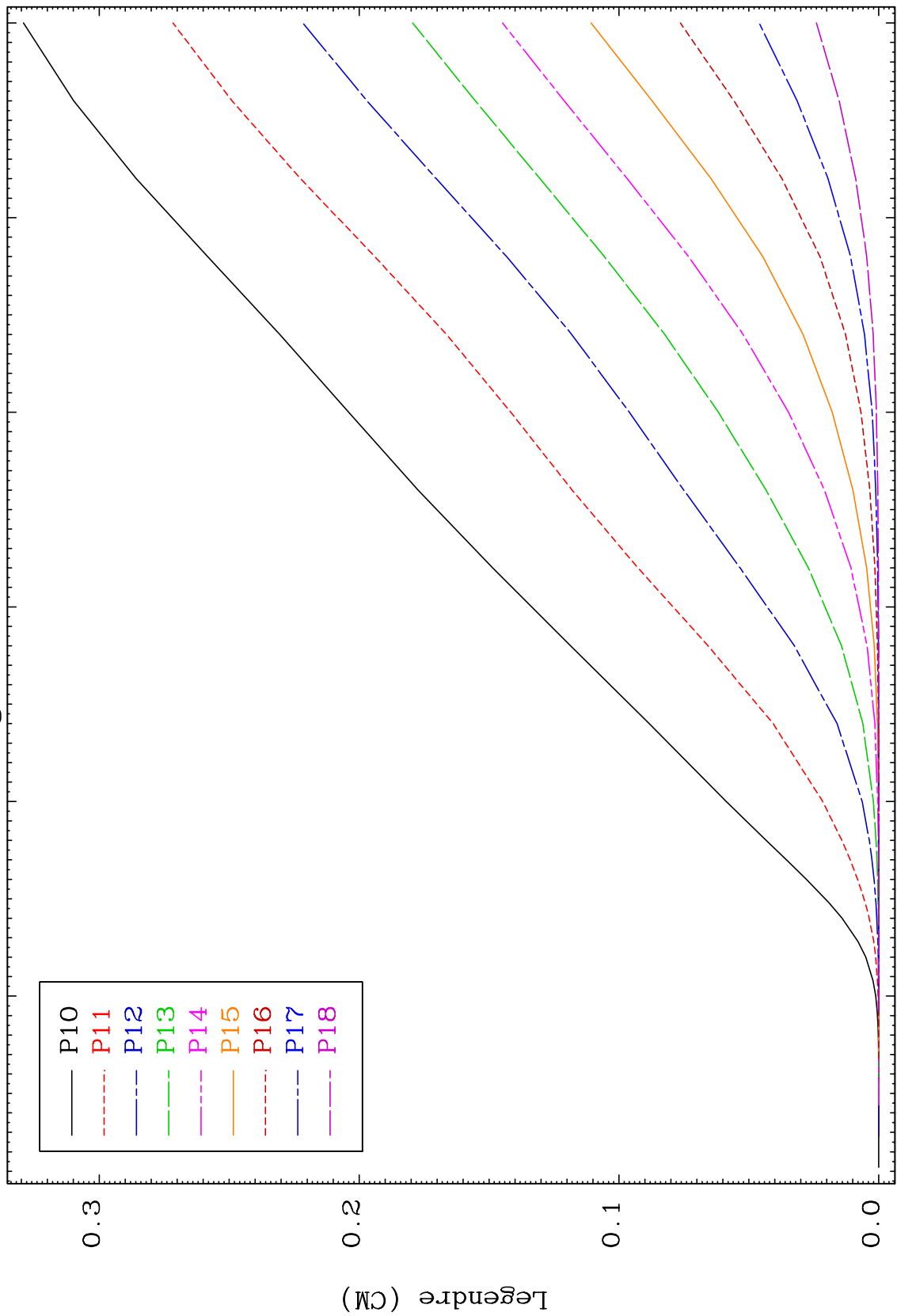
Incident Energy (MeV)

62-Sm-138

MAT 6207

Elastic Legendre Coefficients

62-Sm-138



17

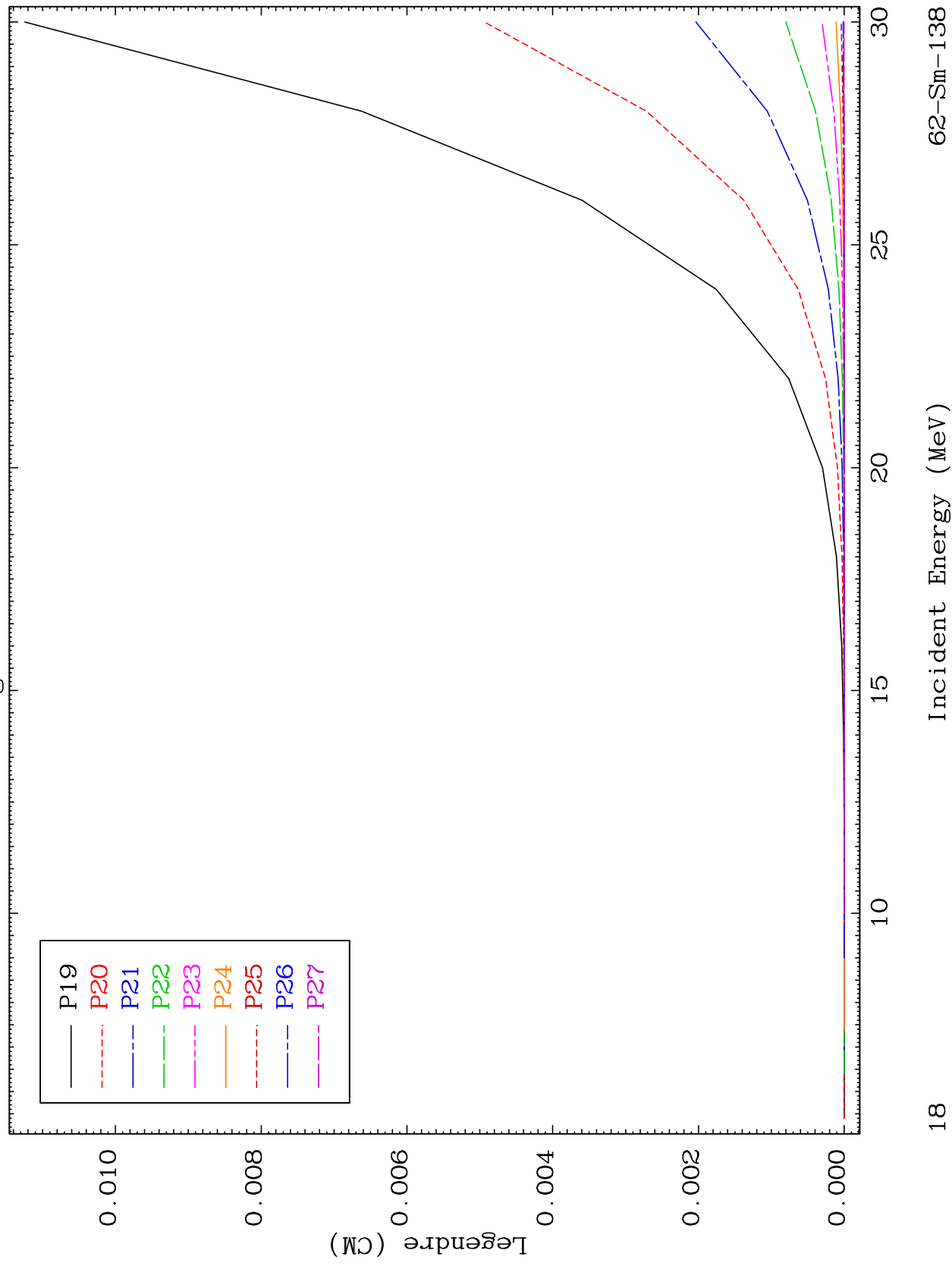
Incident Energy (MeV)

62-Sm-138

MAT 6207

Elastic Legendre Coefficients

62-Sm-138



18

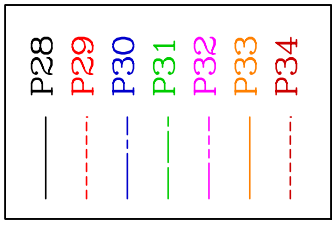
Incident Energy (MeV)

62-Sm-138

MAT 6207

Elastic
Legendre Coefficients

62-Sm-138



$\times 10^{-6}$

Legendre (CM)

1.0

0.8

0.6

0.4

0.2

0.0

15

20

25

30

10

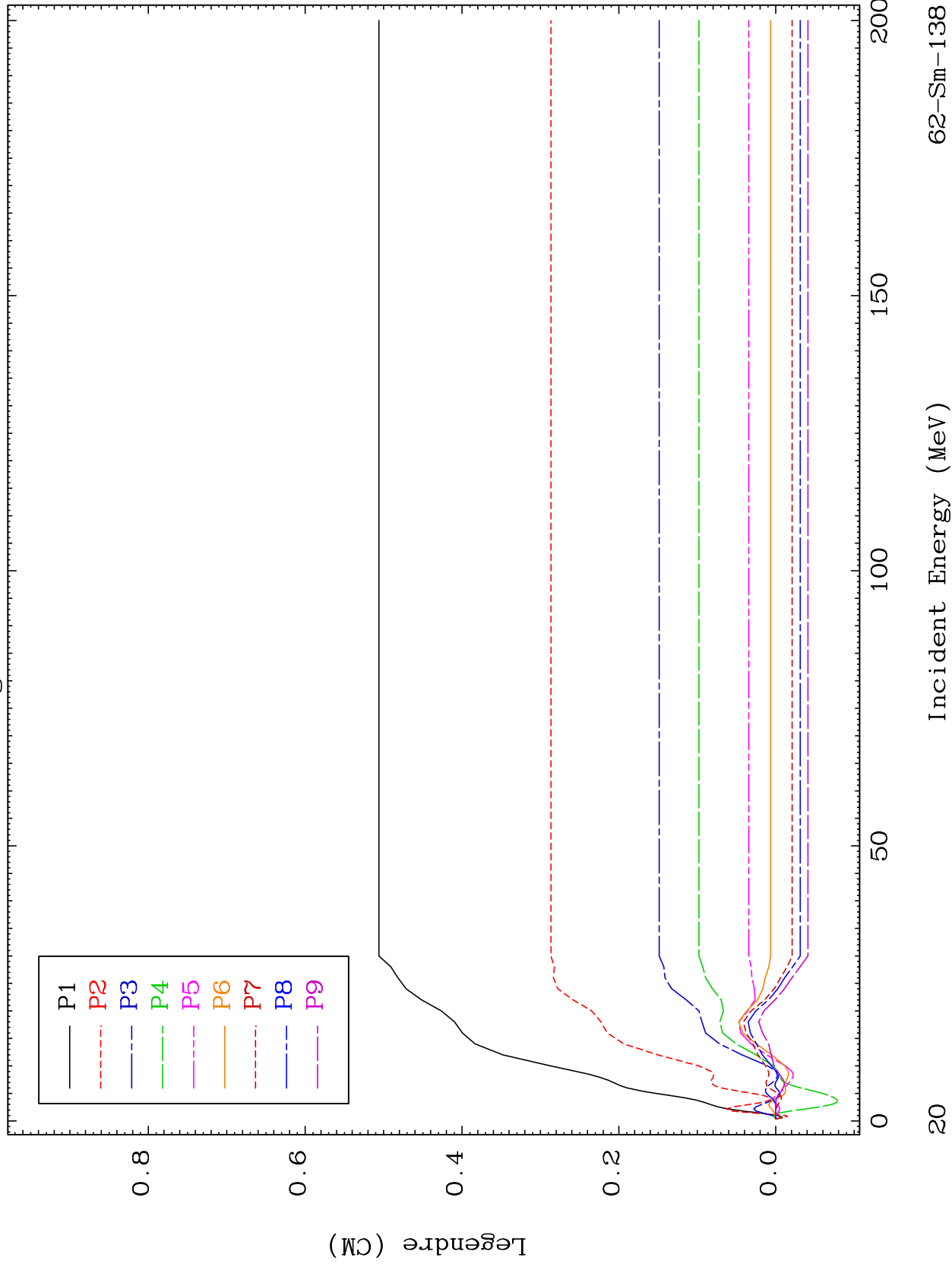
Incident Energy (MeV)

62-Sm-138

MAT 6207

346.7 keV (n, n') Level
Legendre Coefficients

62-Sm-138



62-Sm-138

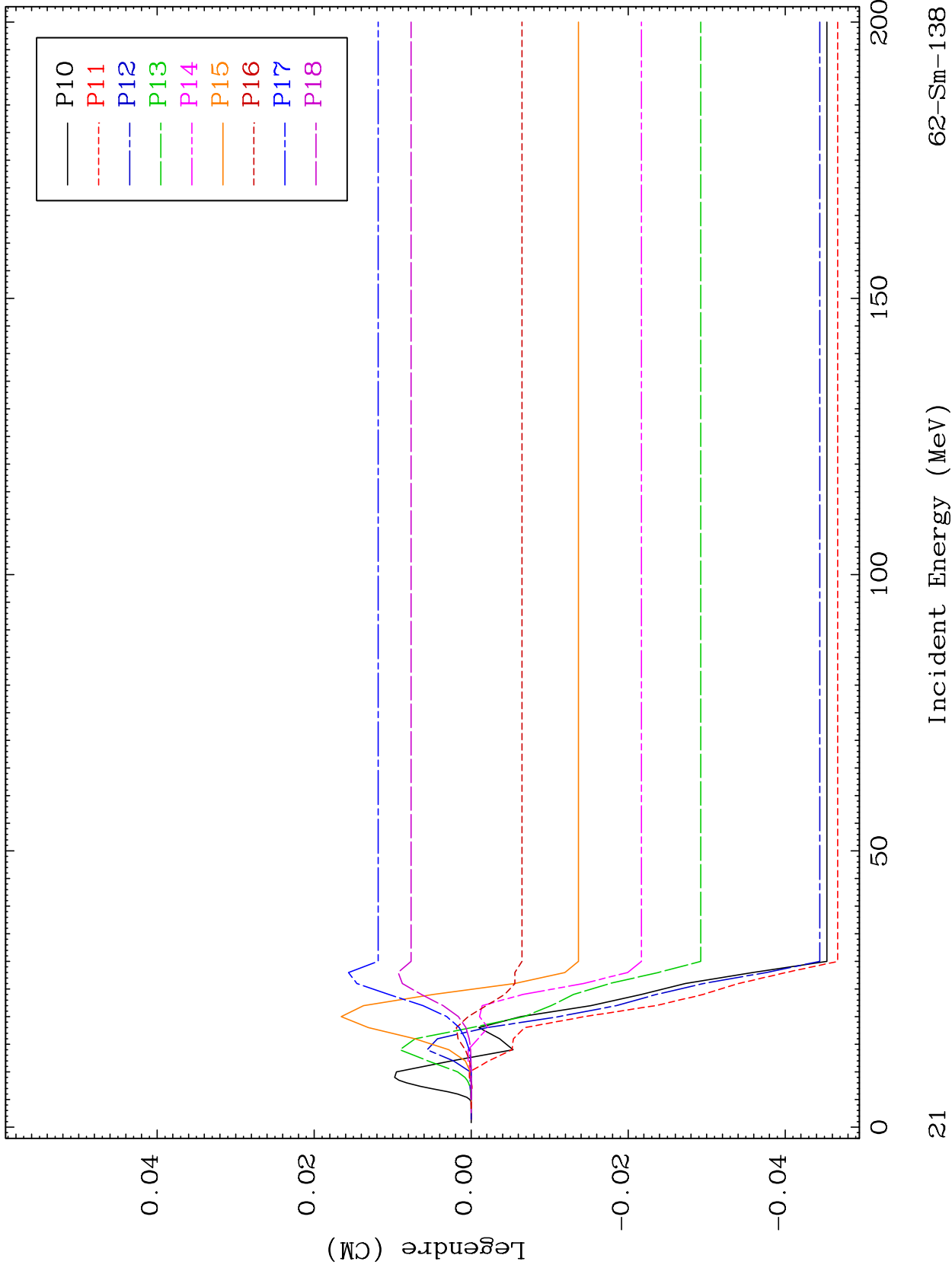
Incident Energy (MeV)

0

MAT 6207

346.7 keV (n,n') Level
Legendre Coefficients

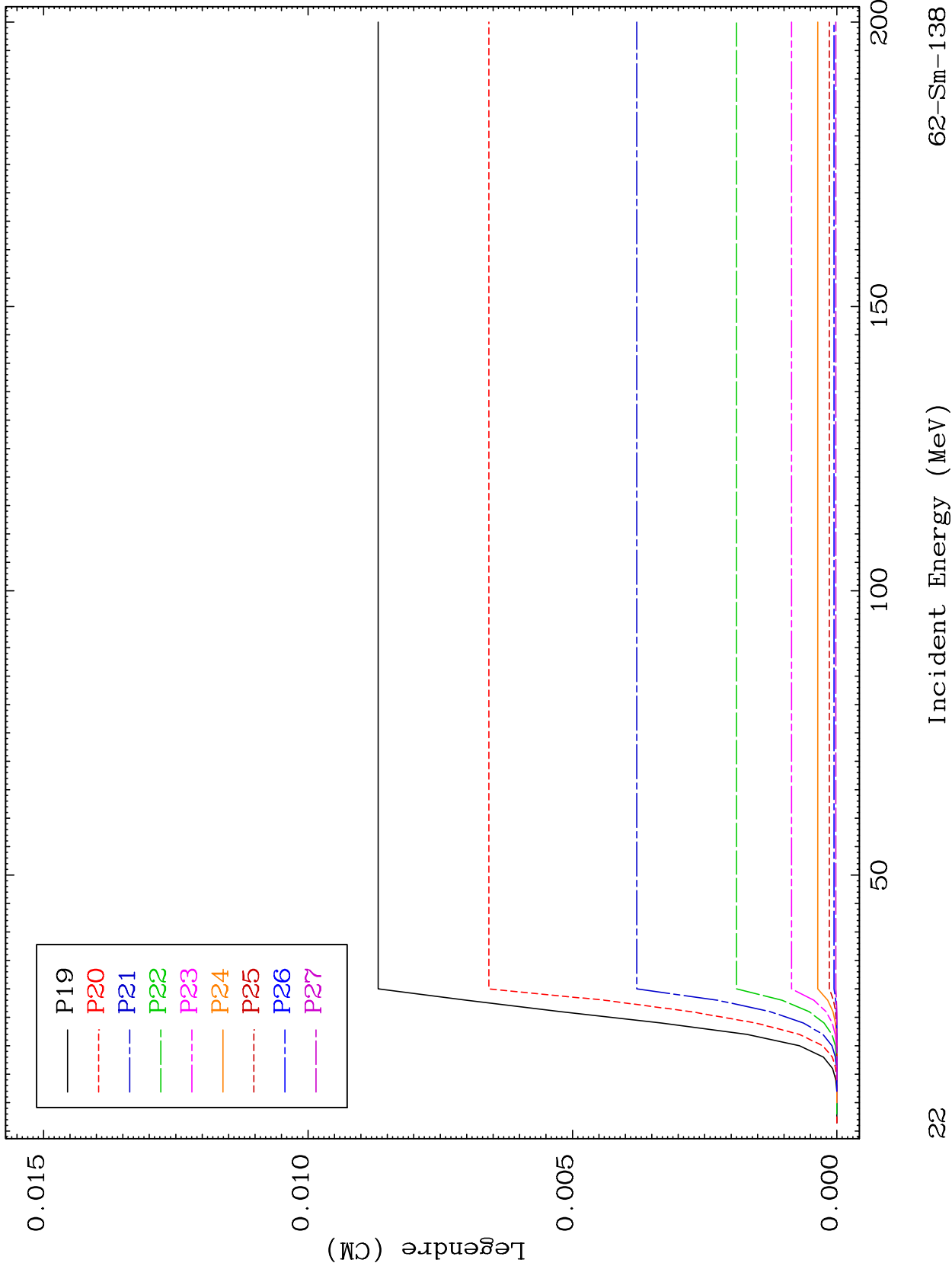
62-Sm-138



21

Incident Energy (MeV)

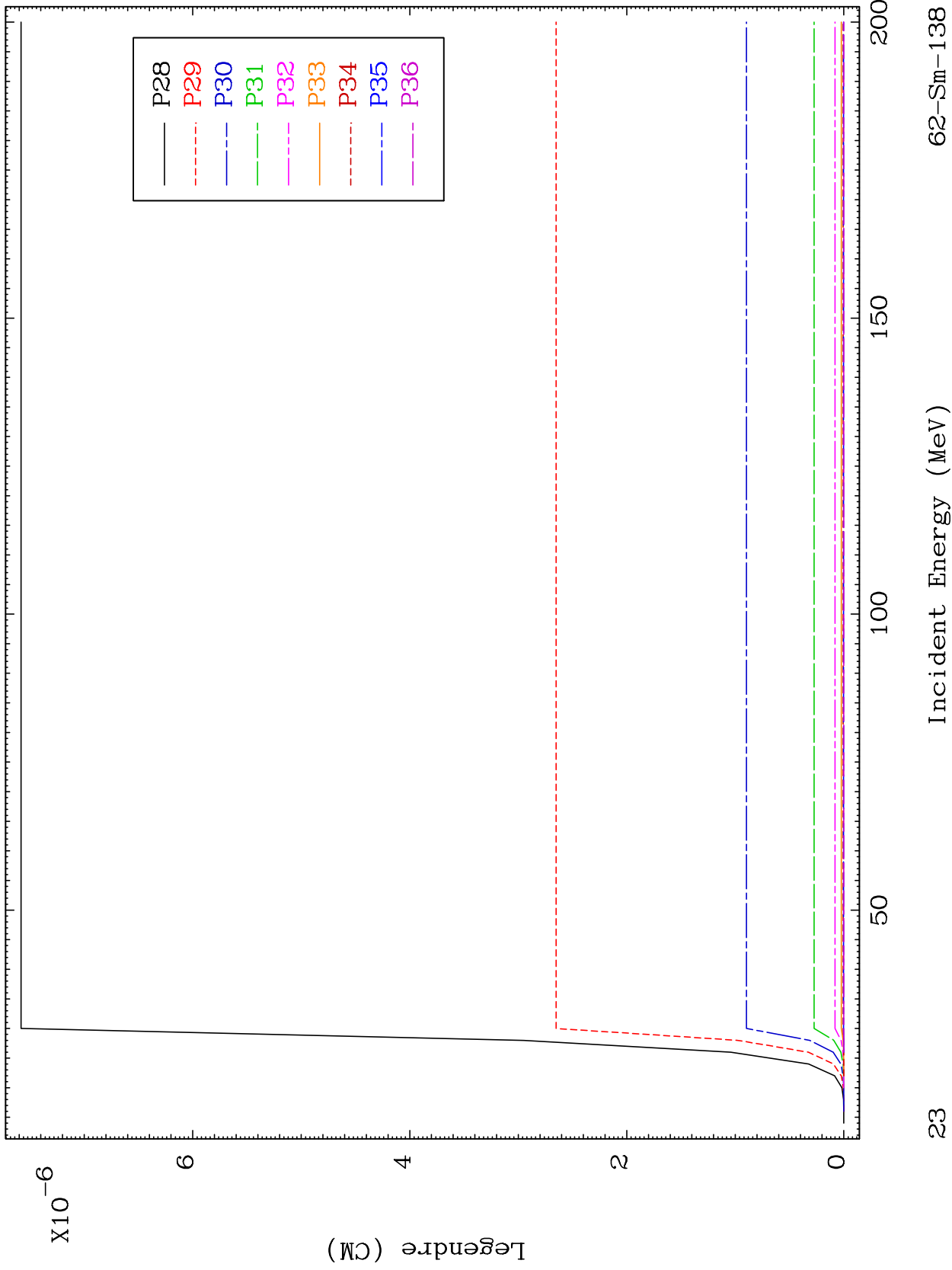
62-Sm-138



MAT 6207

346.7 keV (n,n') Level
Legendre Coefficients

62-Sm-138



23

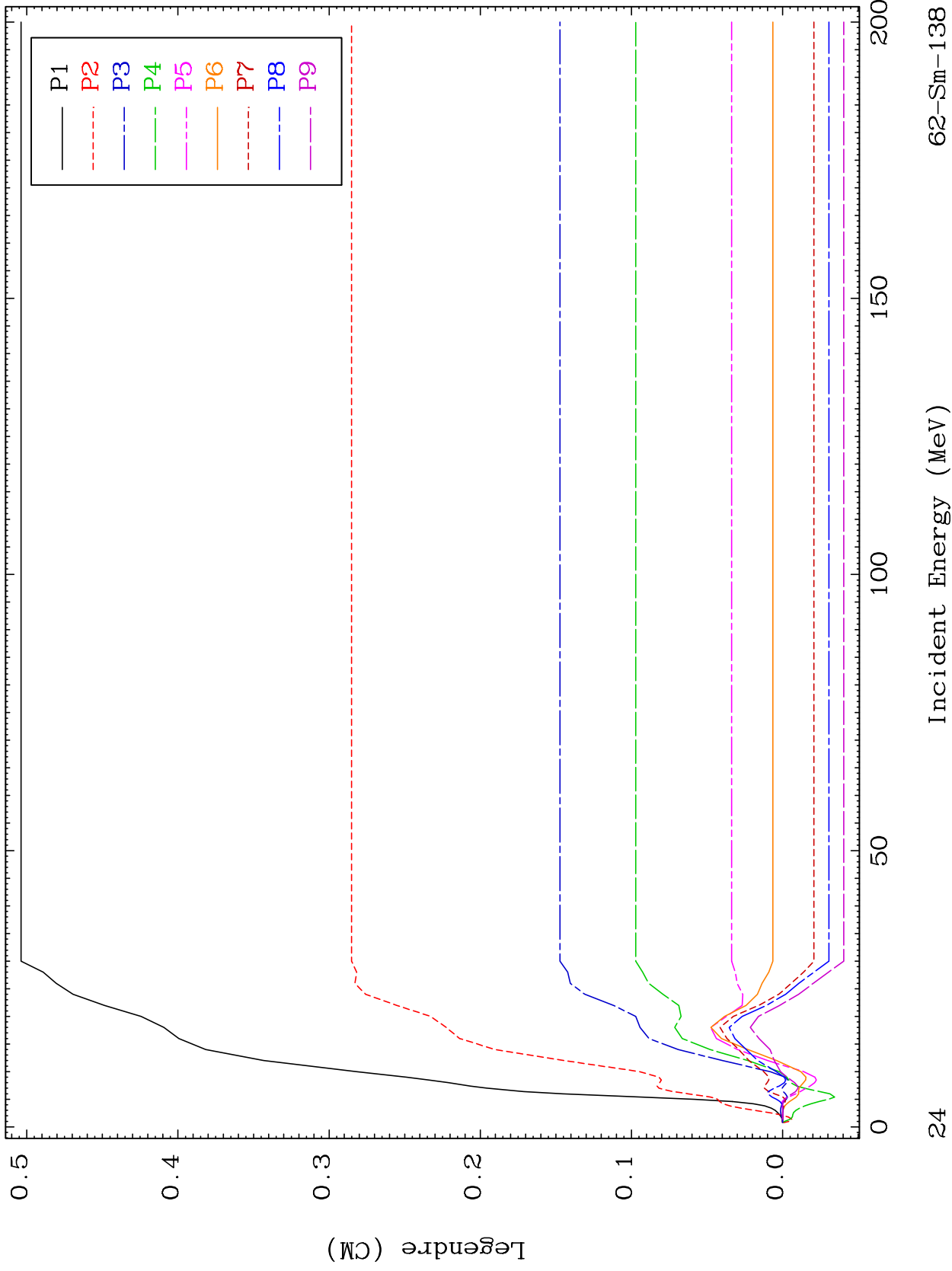
Incident Energy (MeV)

62-Sm-138

MAT 6207

745.8 keV (n,n') Level
Legendre Coefficients

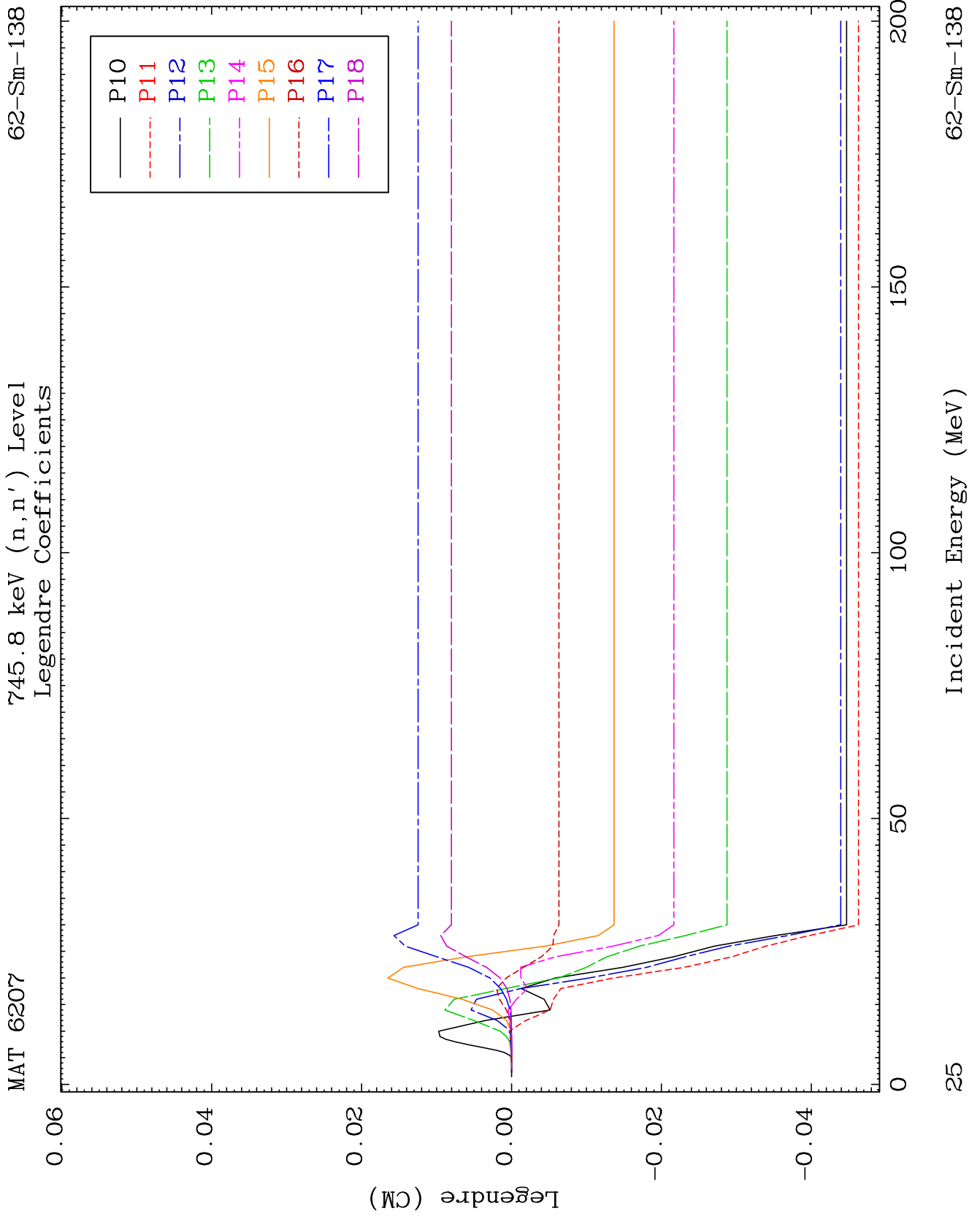
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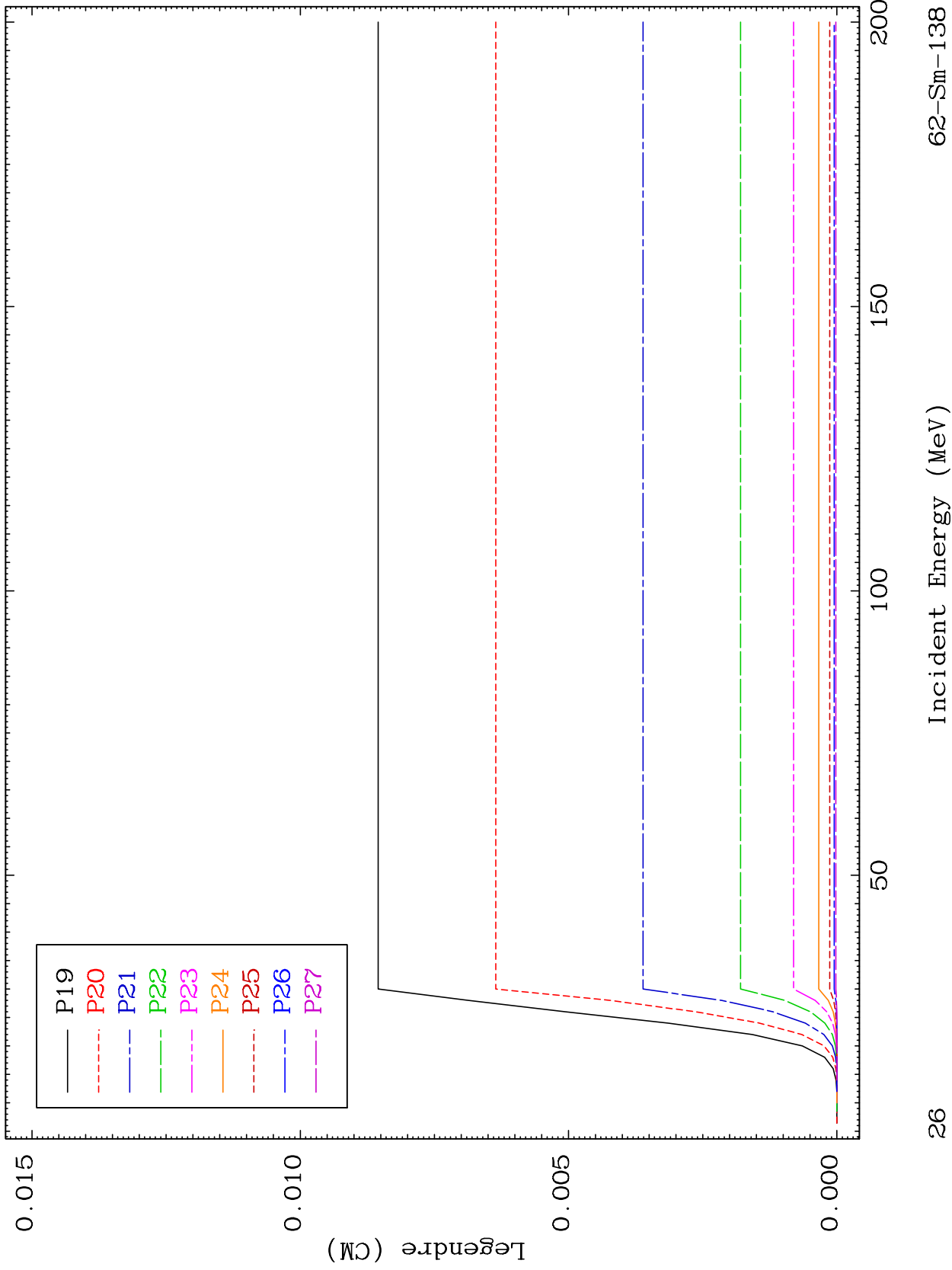


62-Sm-138

Incident Energy (MeV)

24

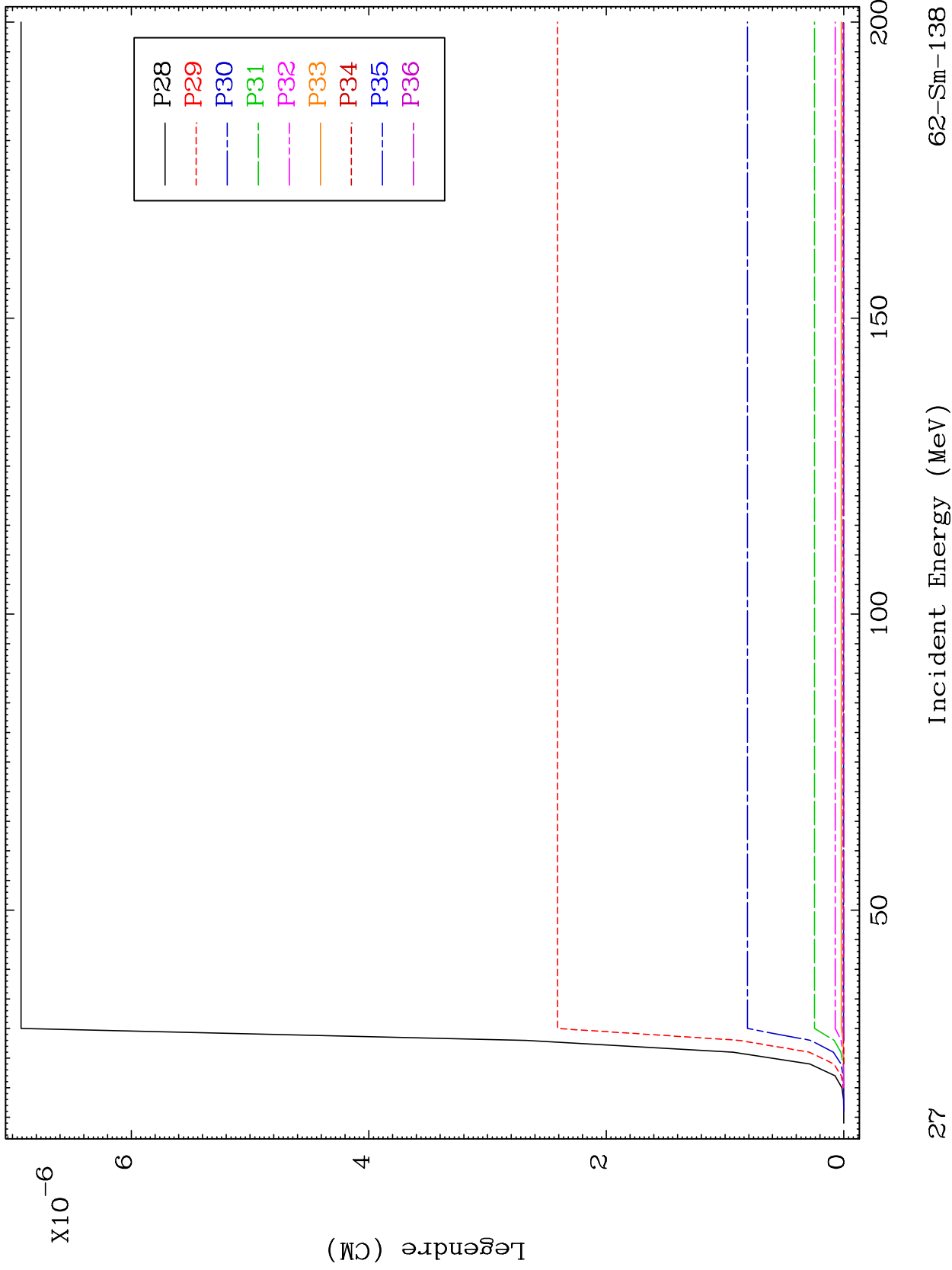




MAT 6207

745.8 keV (n,n') Level
Legendre Coefficients

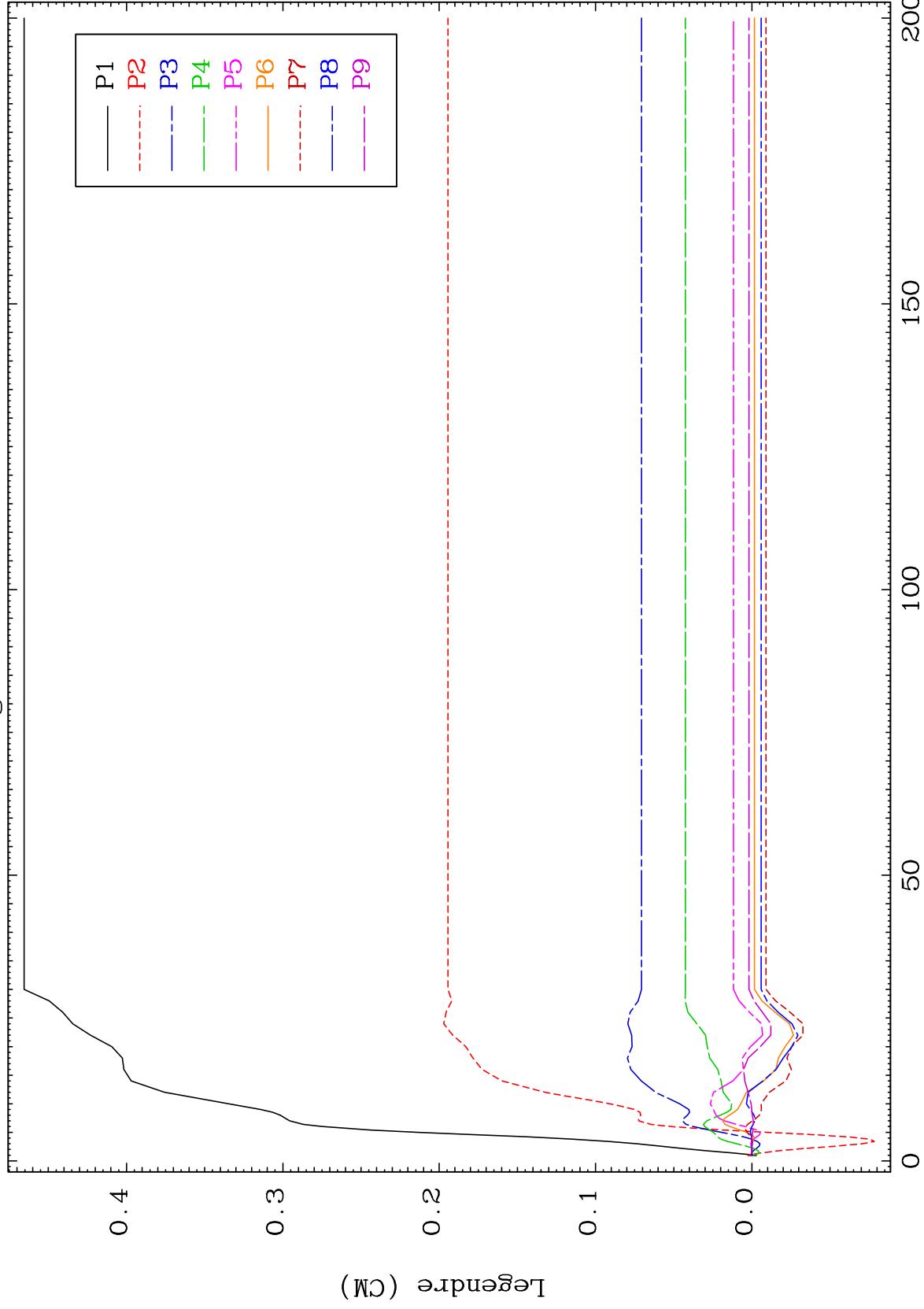
62-Sm-138



MAT 6207

891.6 keV (n,n') Level
Legendre Coefficients

62-Sm-138



62-Sm-138

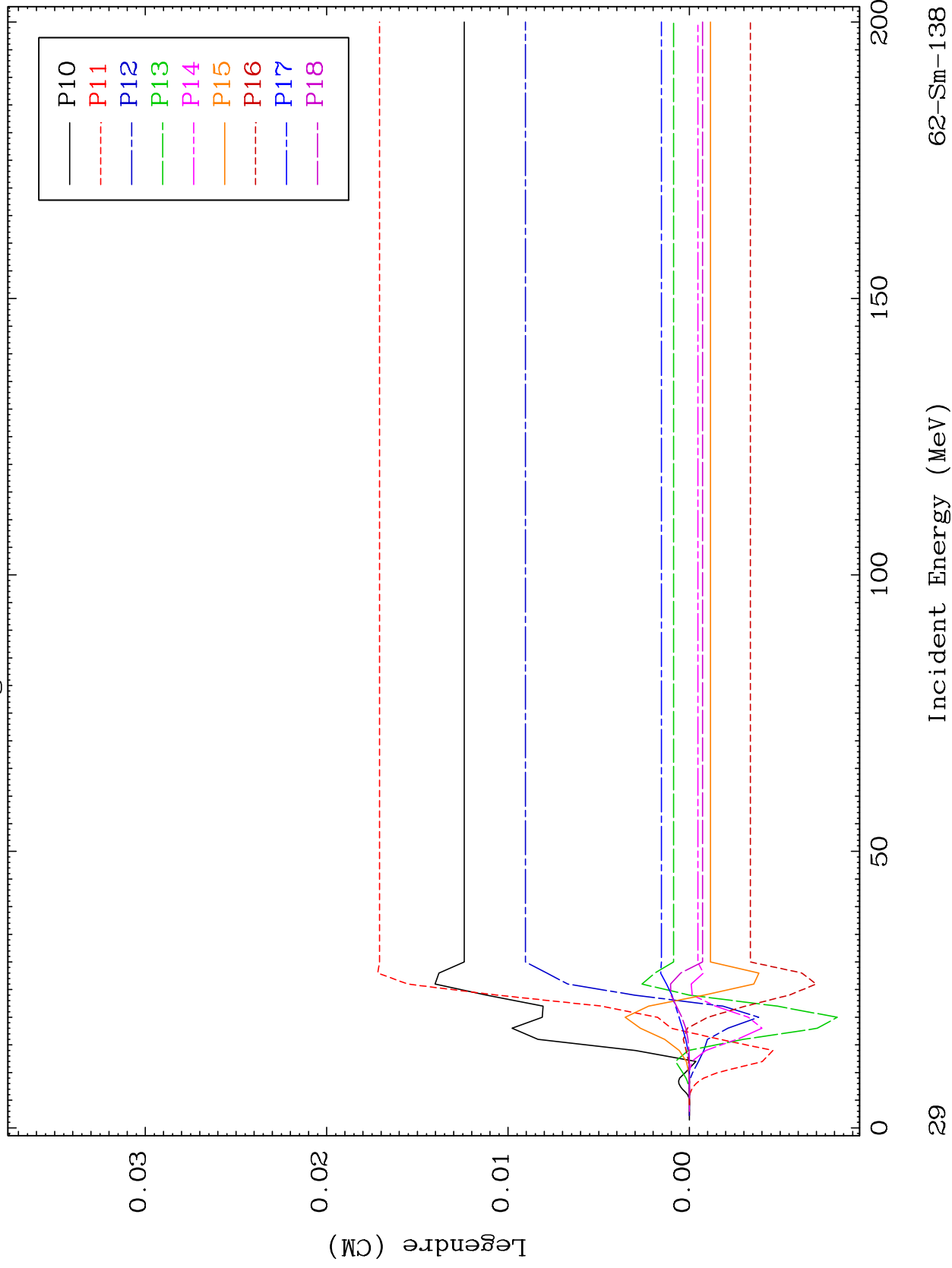
Incident Energy (MeV)

28

MAT 6207

891.6 keV (n,n') Level
Legendre Coefficients

62-Sm-138



62-Sm-138

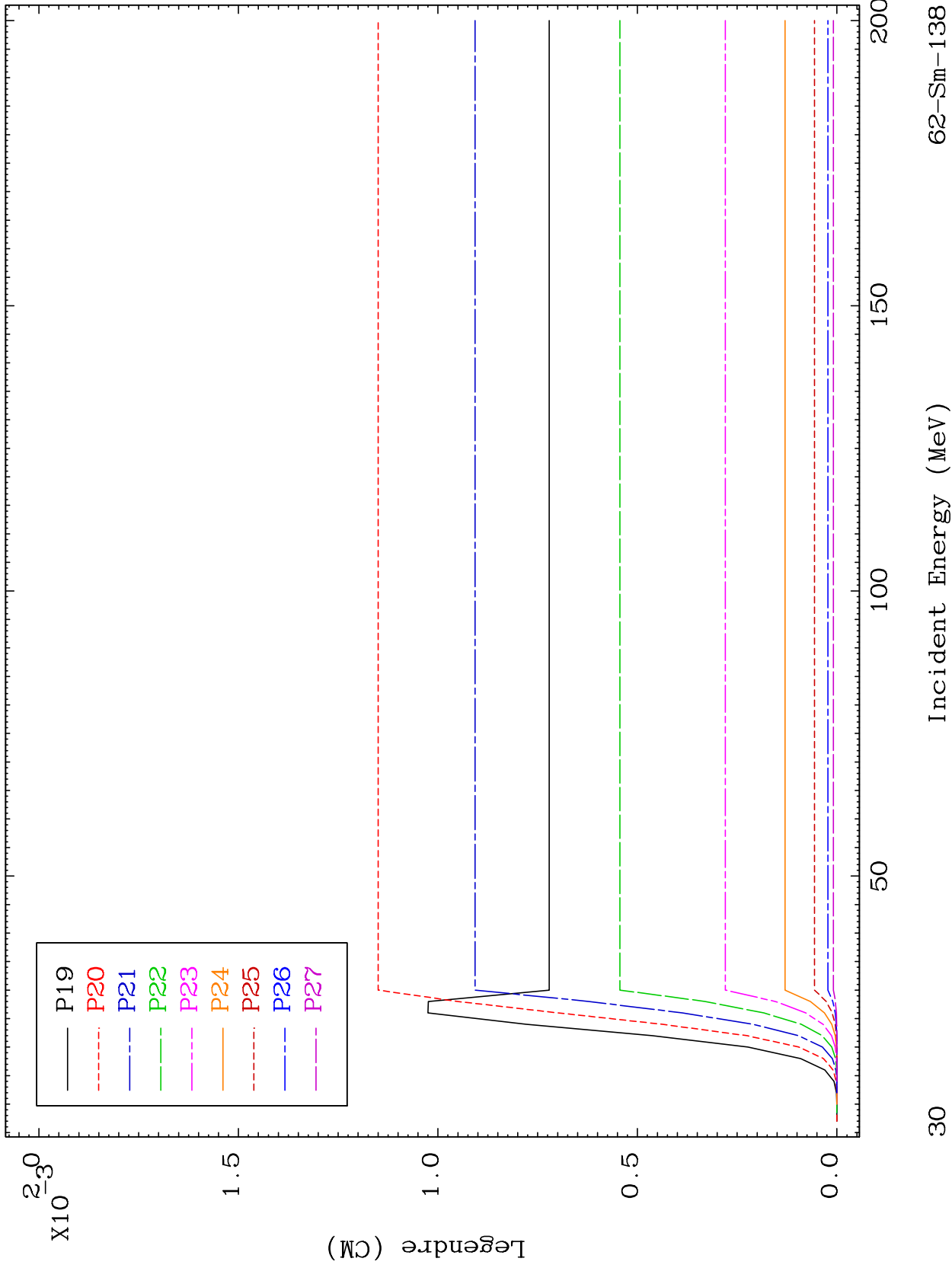
Incident Energy (MeV)

29

MAT 6207

891.6 keV (n,n') Level
Legendre Coefficients

62-Sm-138



62-Sm-138

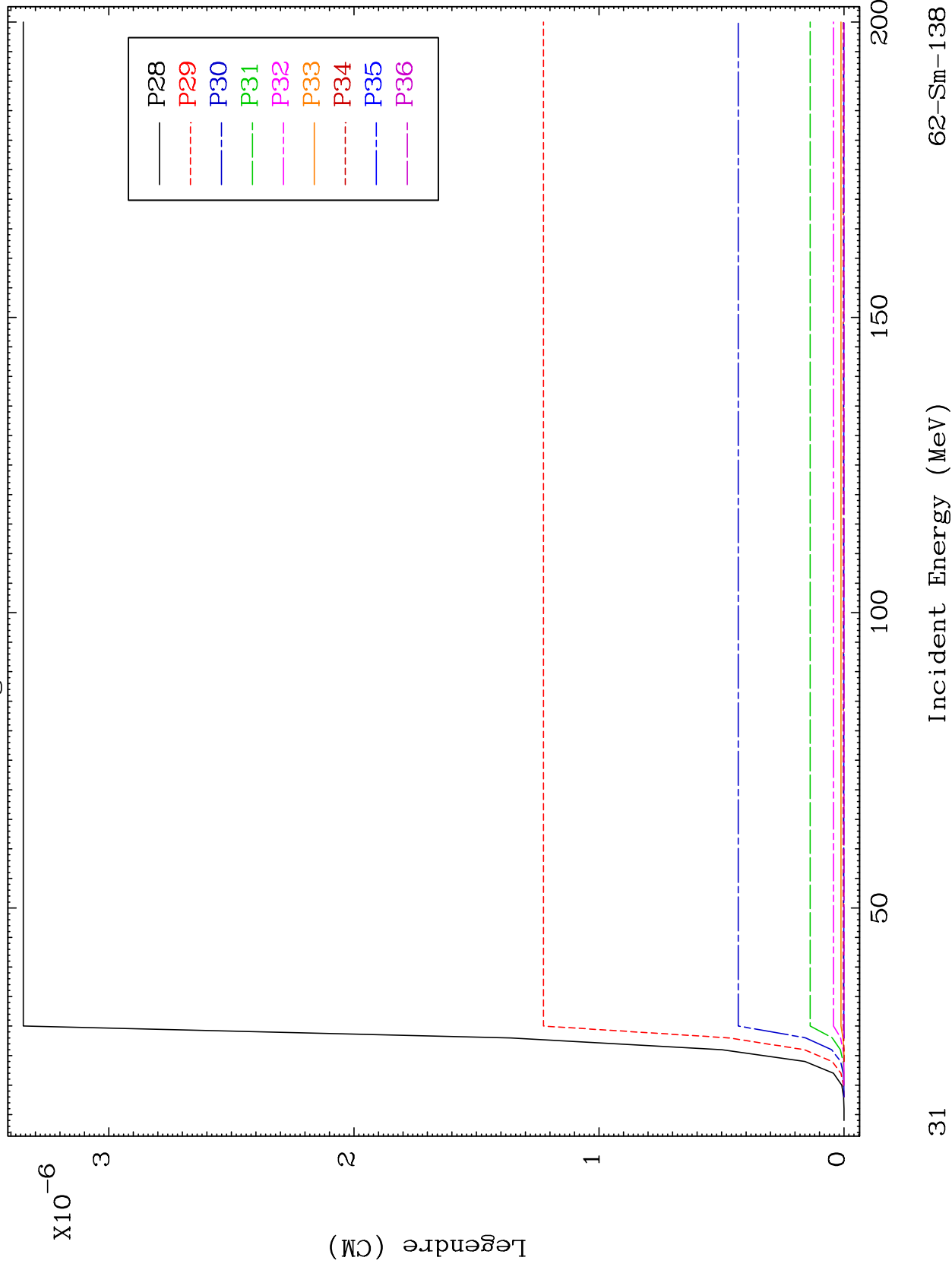
Incident Energy (MeV)

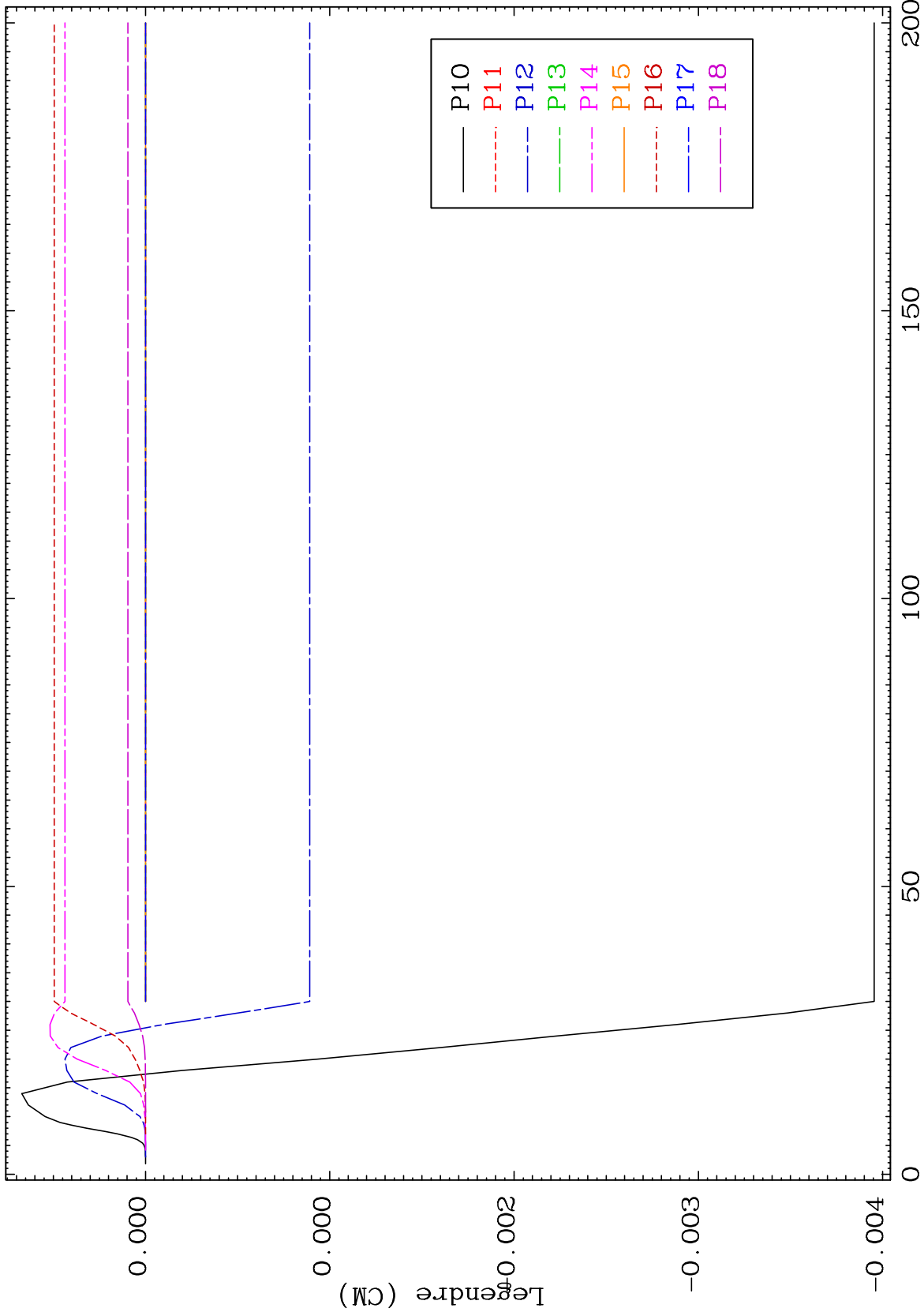
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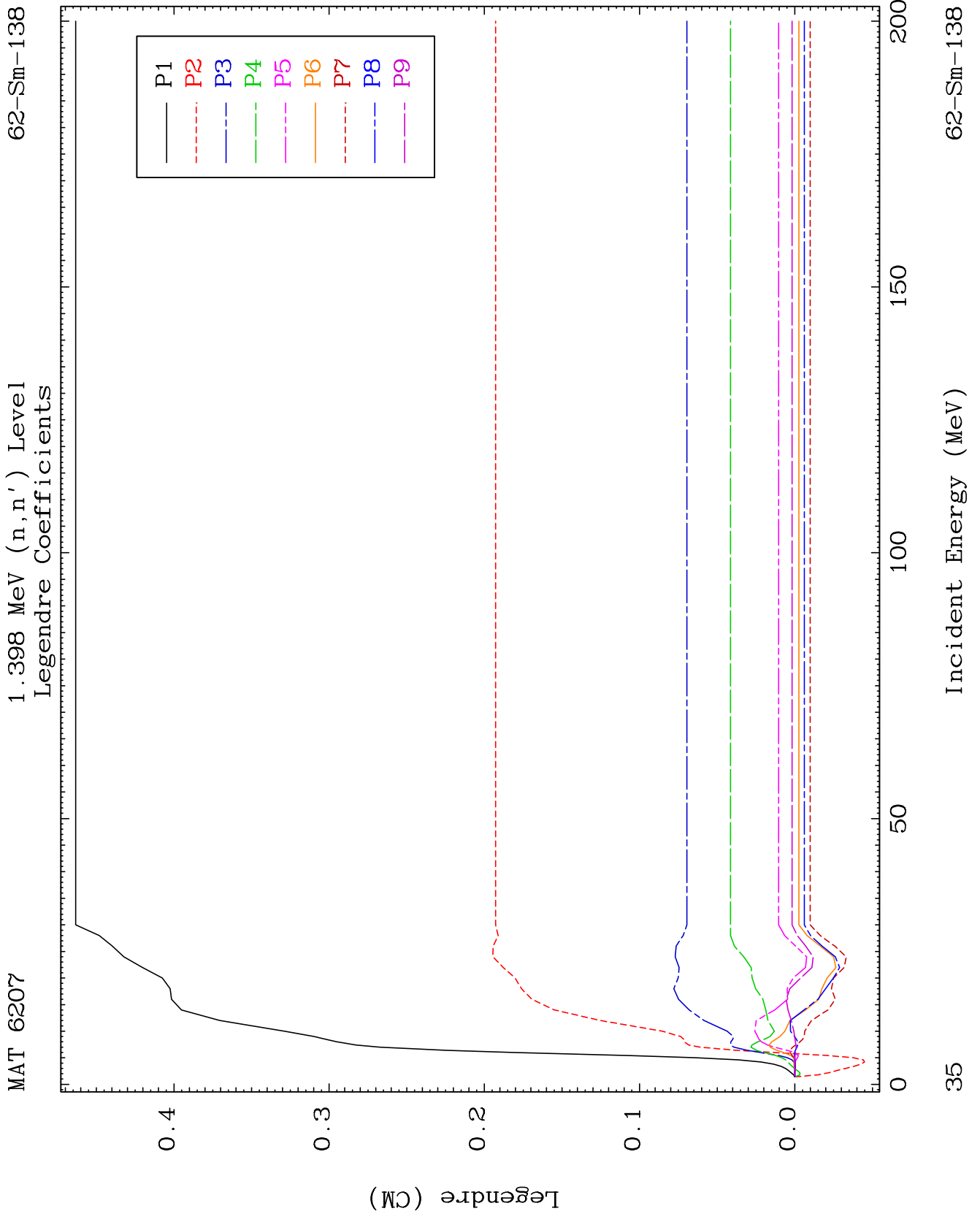
MAT 6207

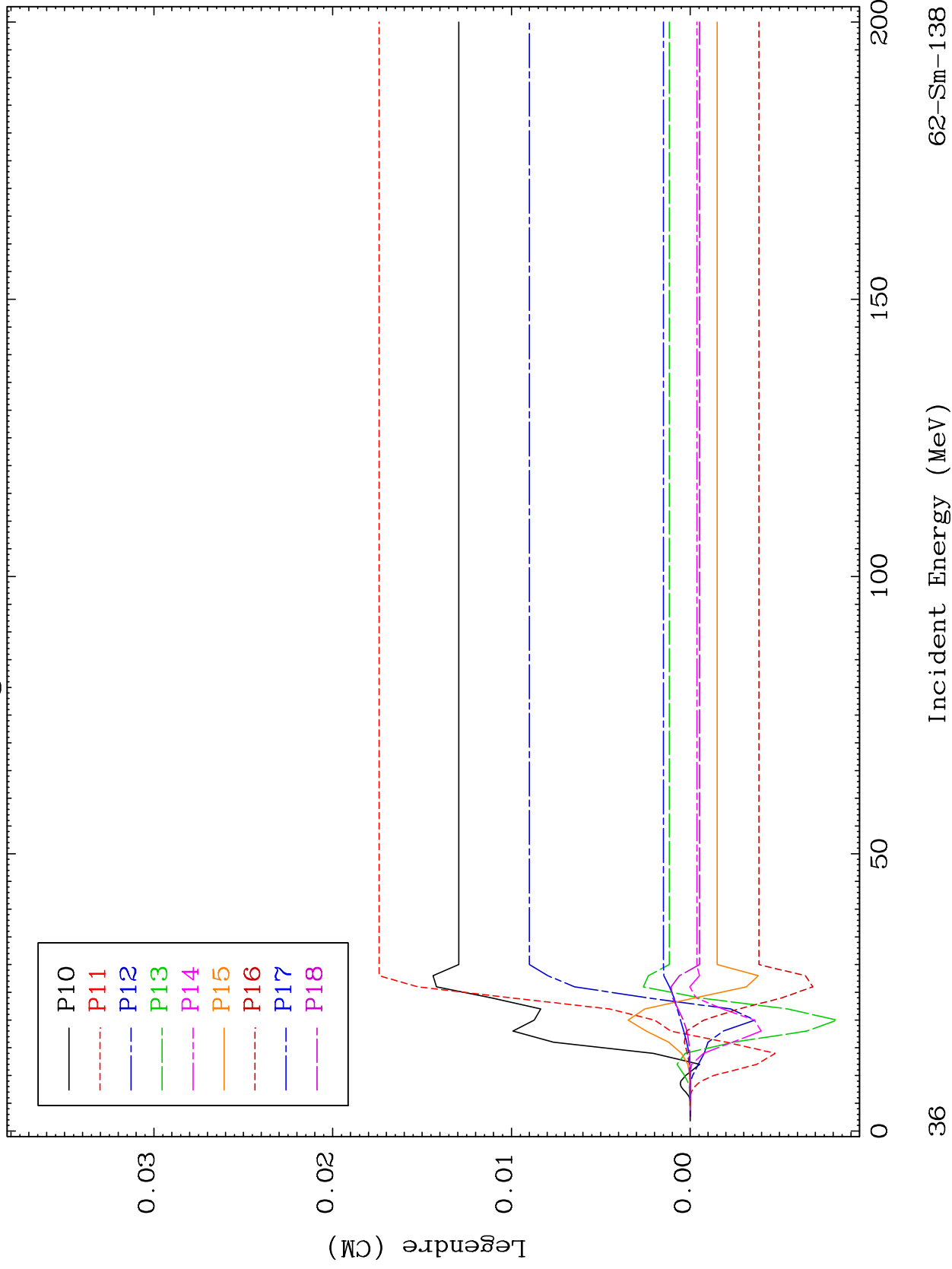
891.6 keV (n,n') Level
Legendre Coefficients

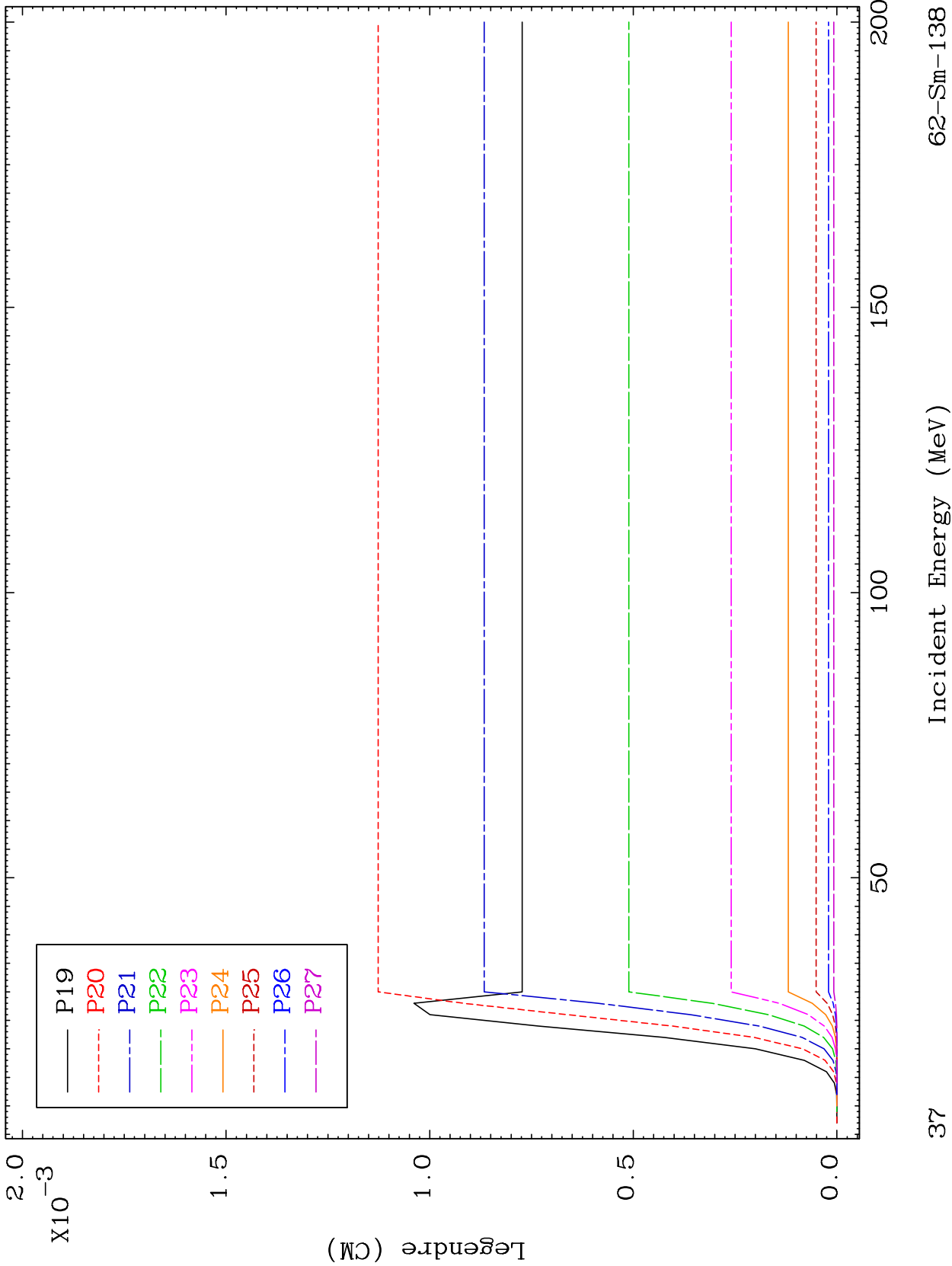
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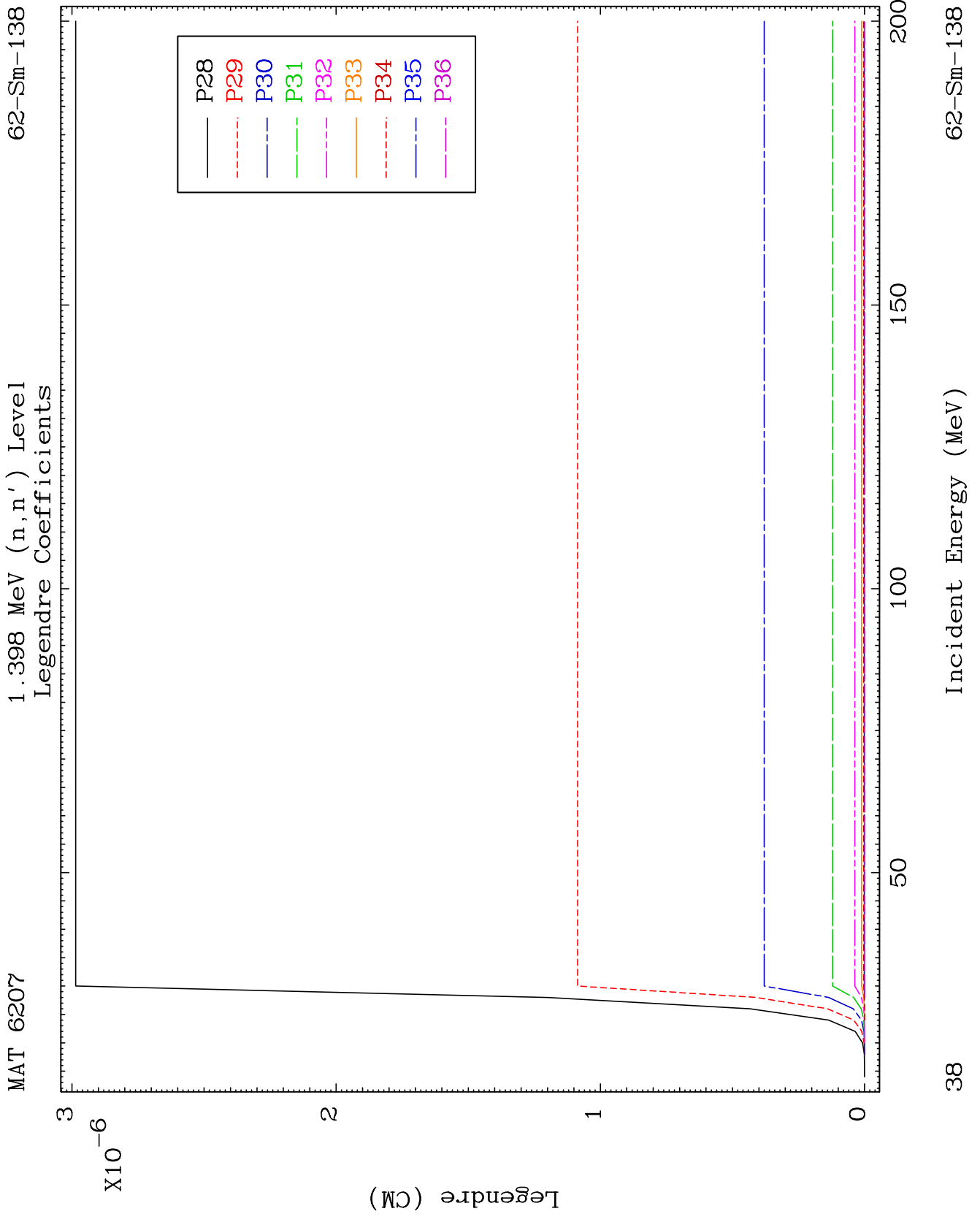








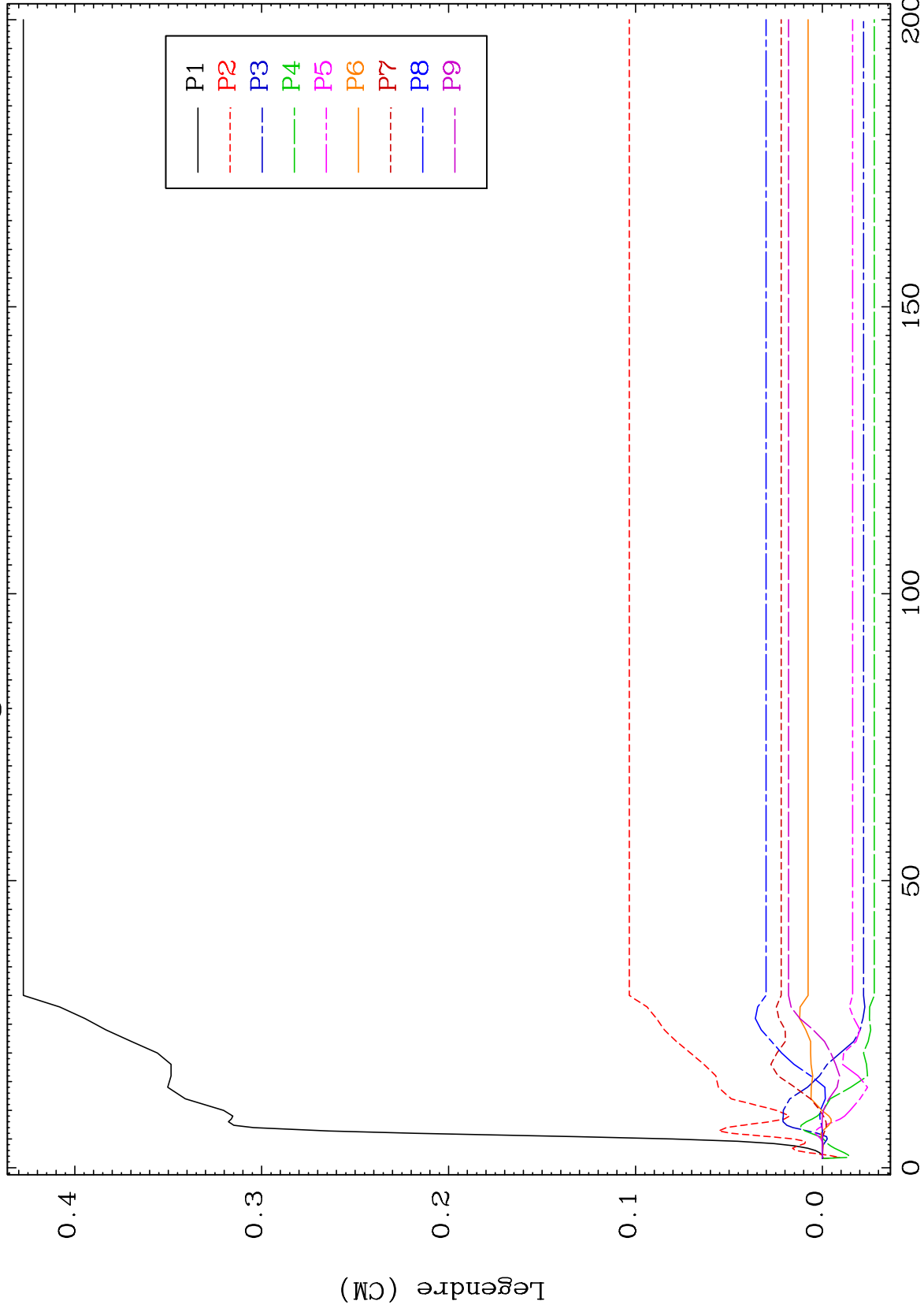




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1.577 MeV (n, n') Level
Legendre Coefficients

62-Sm-138



39

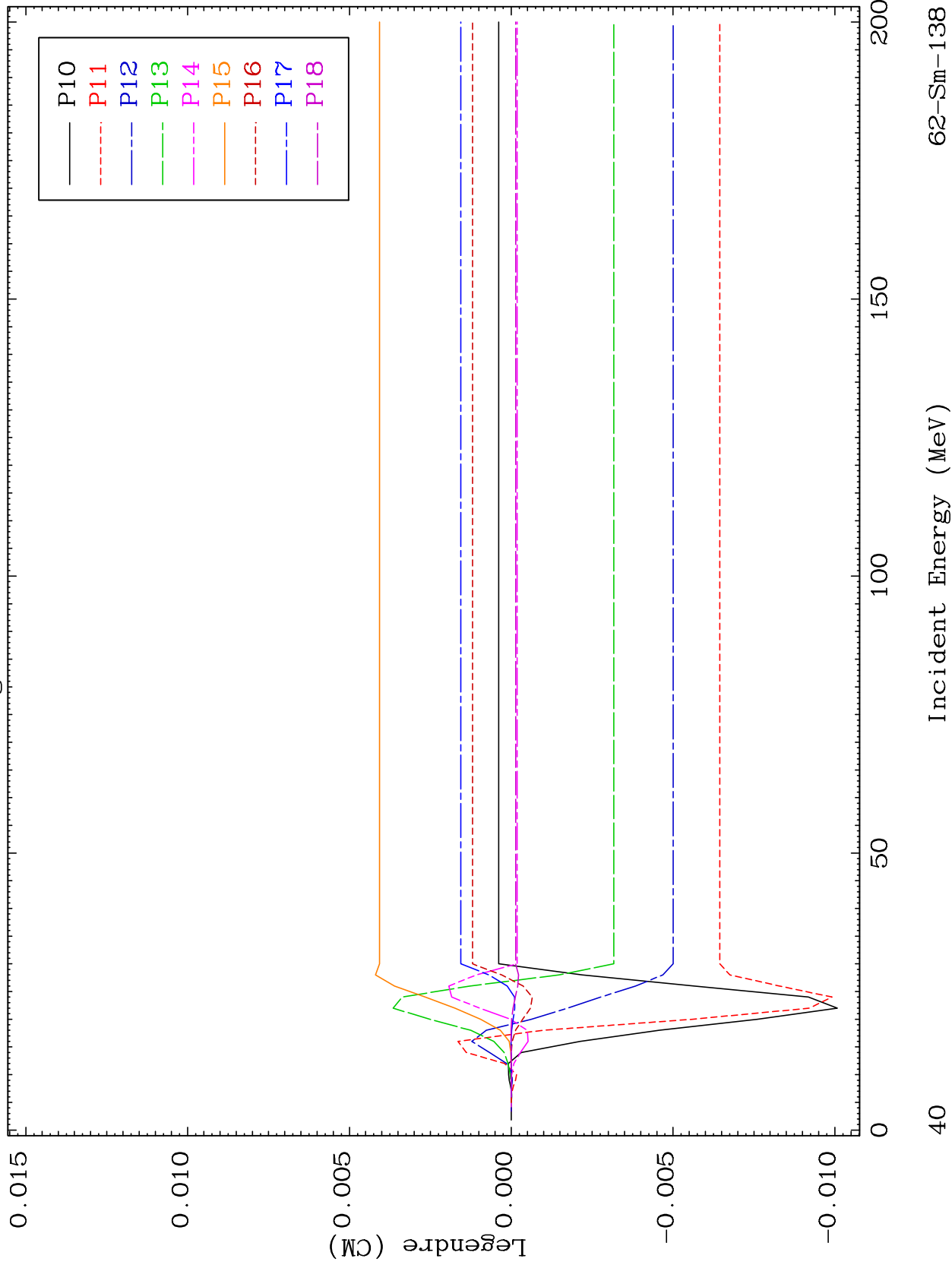
Incident Energy (MeV)

62-Sm-138

MAT 6207

1.577 MeV (n,n') Level
Legendre Coefficients

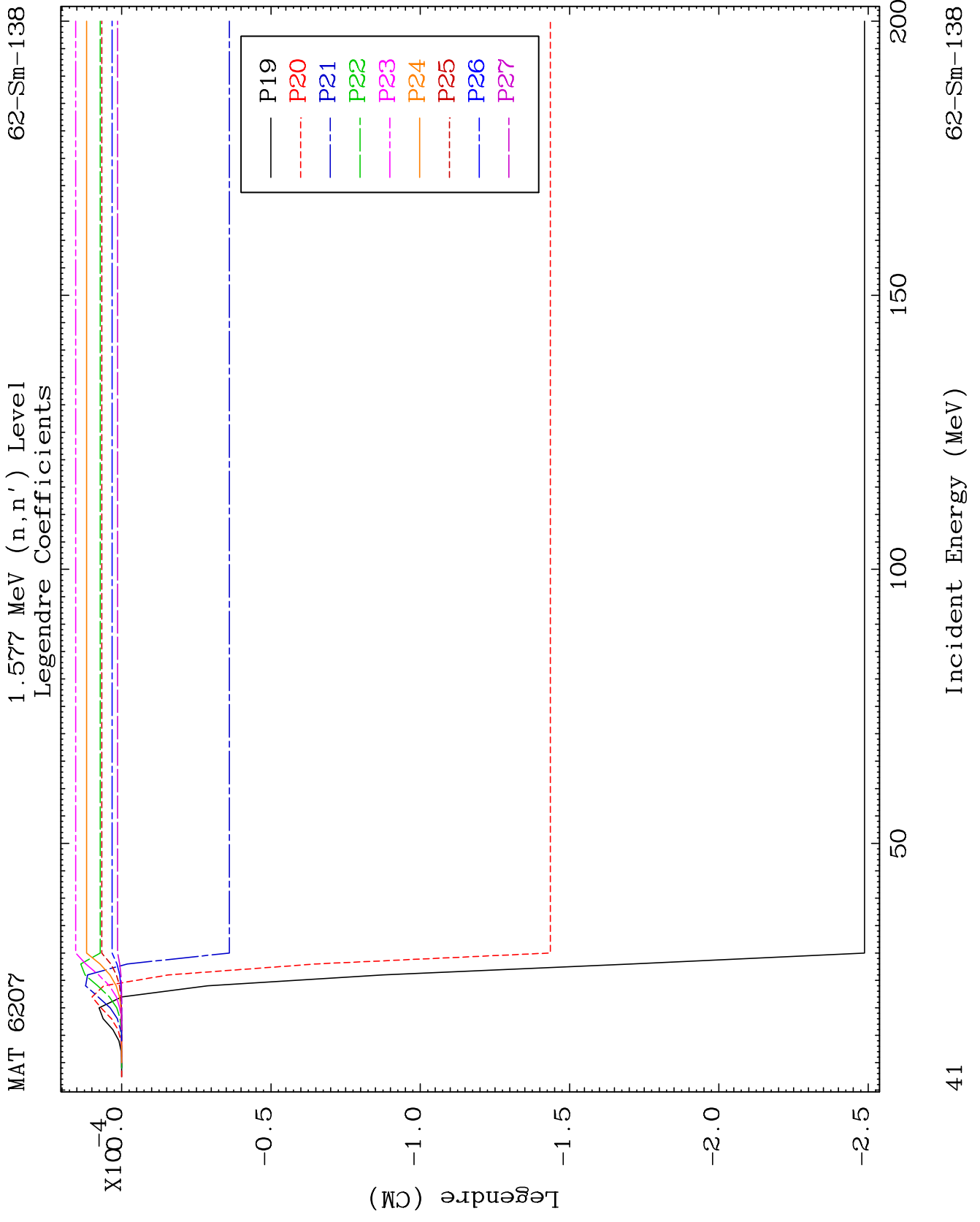
62-Sm-138



62-Sm-138

Incident Energy (MeV)

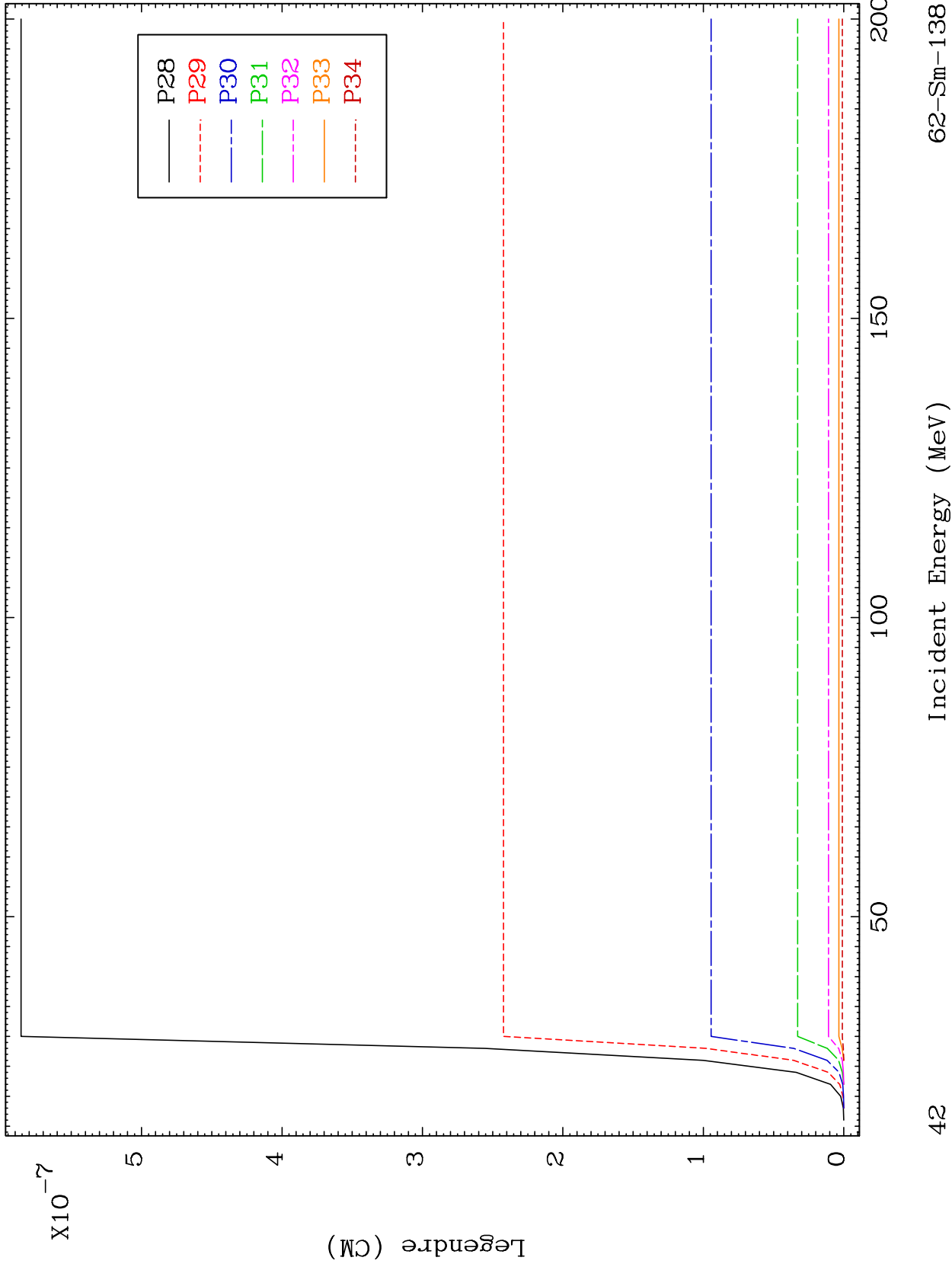
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MAT 6207

1.577 MeV (n, n') Level
Legendre Coefficients

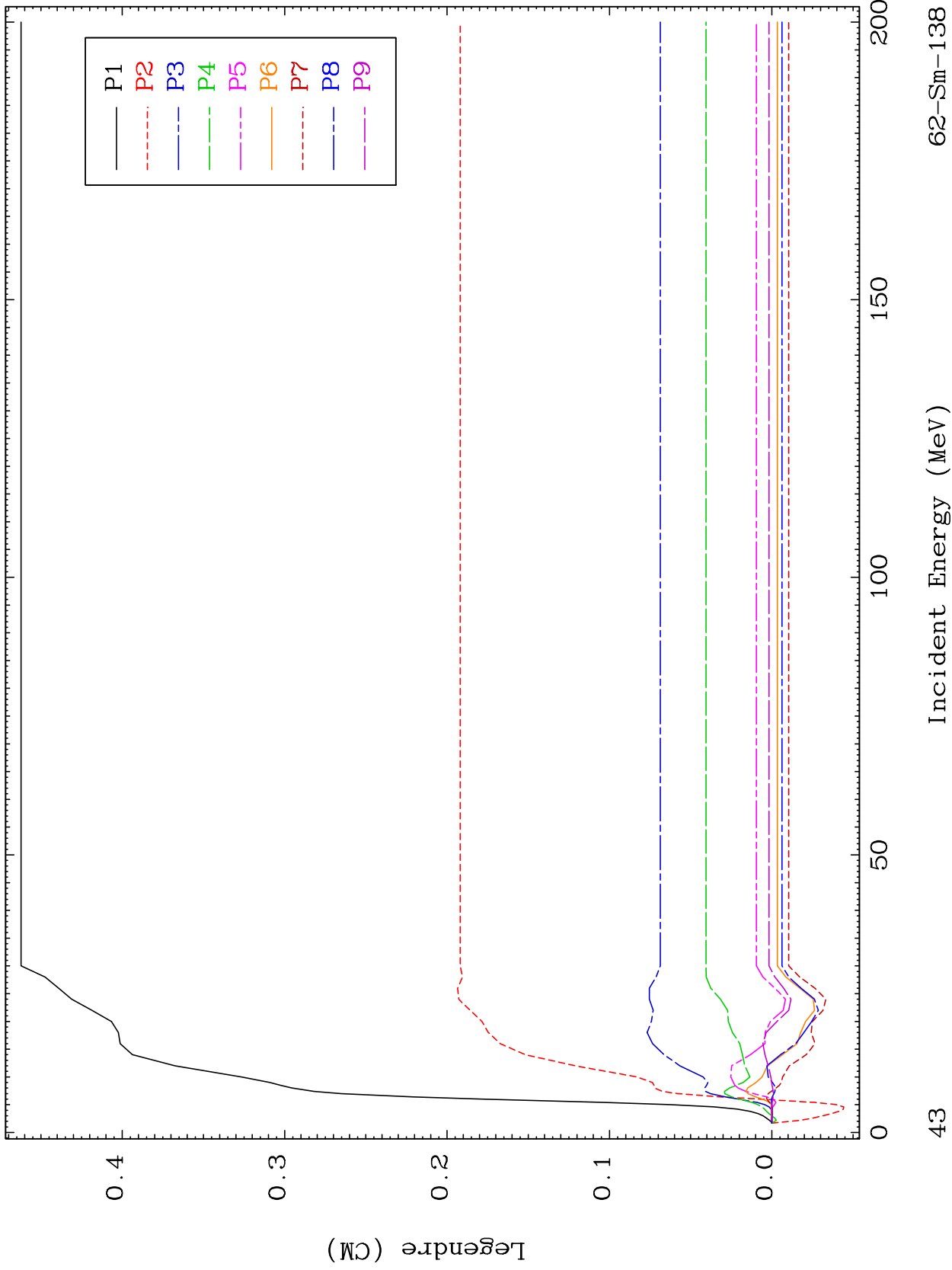
62-Sm-138



MAT 6207

1.656 MeV (n,n') Level
Legendre Coefficients

62-Sm-138



62-Sm-138

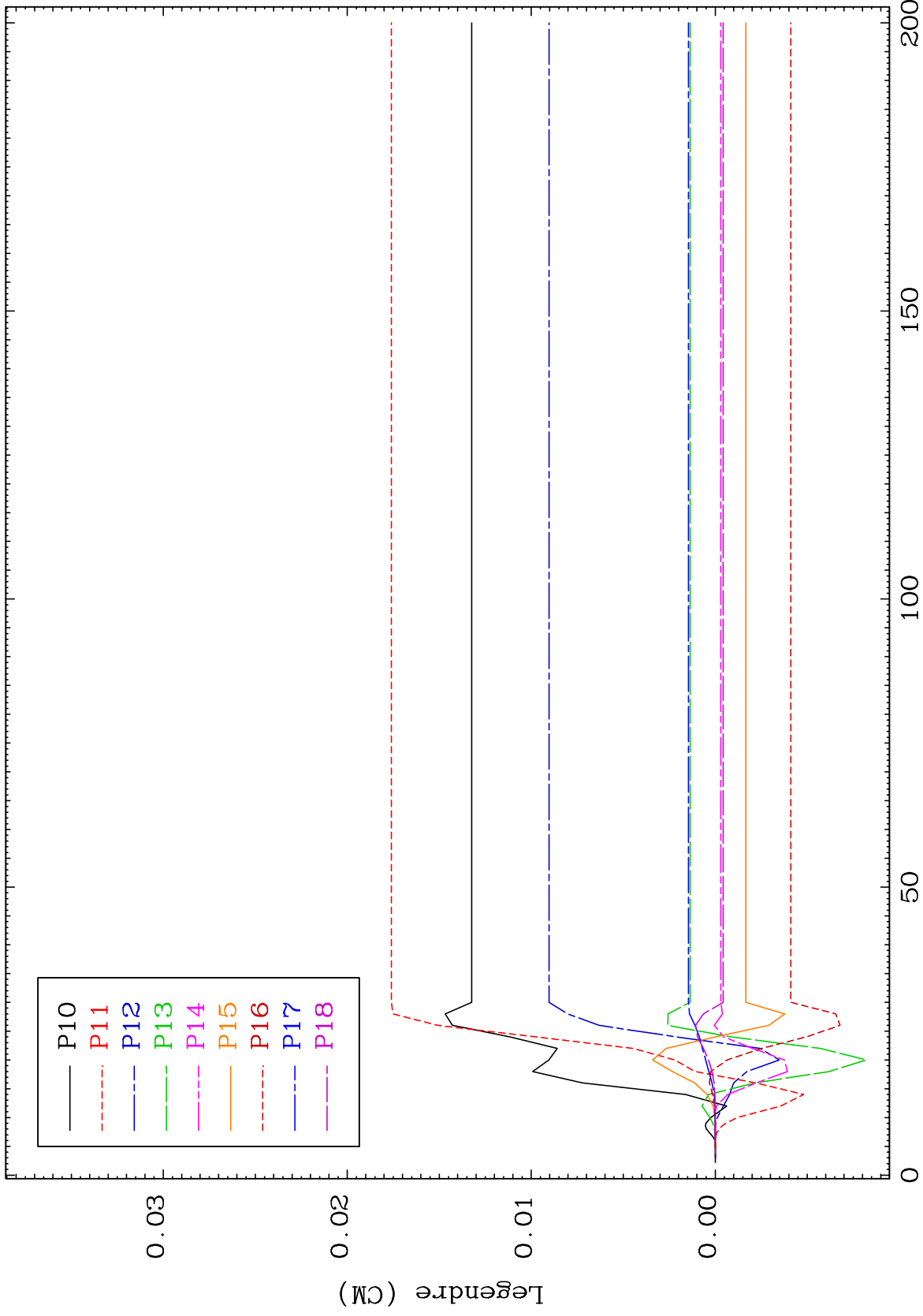
Incident Energy (MeV)

43

MAT 6207

1.656 MeV (n, n') Level
Legendre Coefficients

62-Sm-138



44

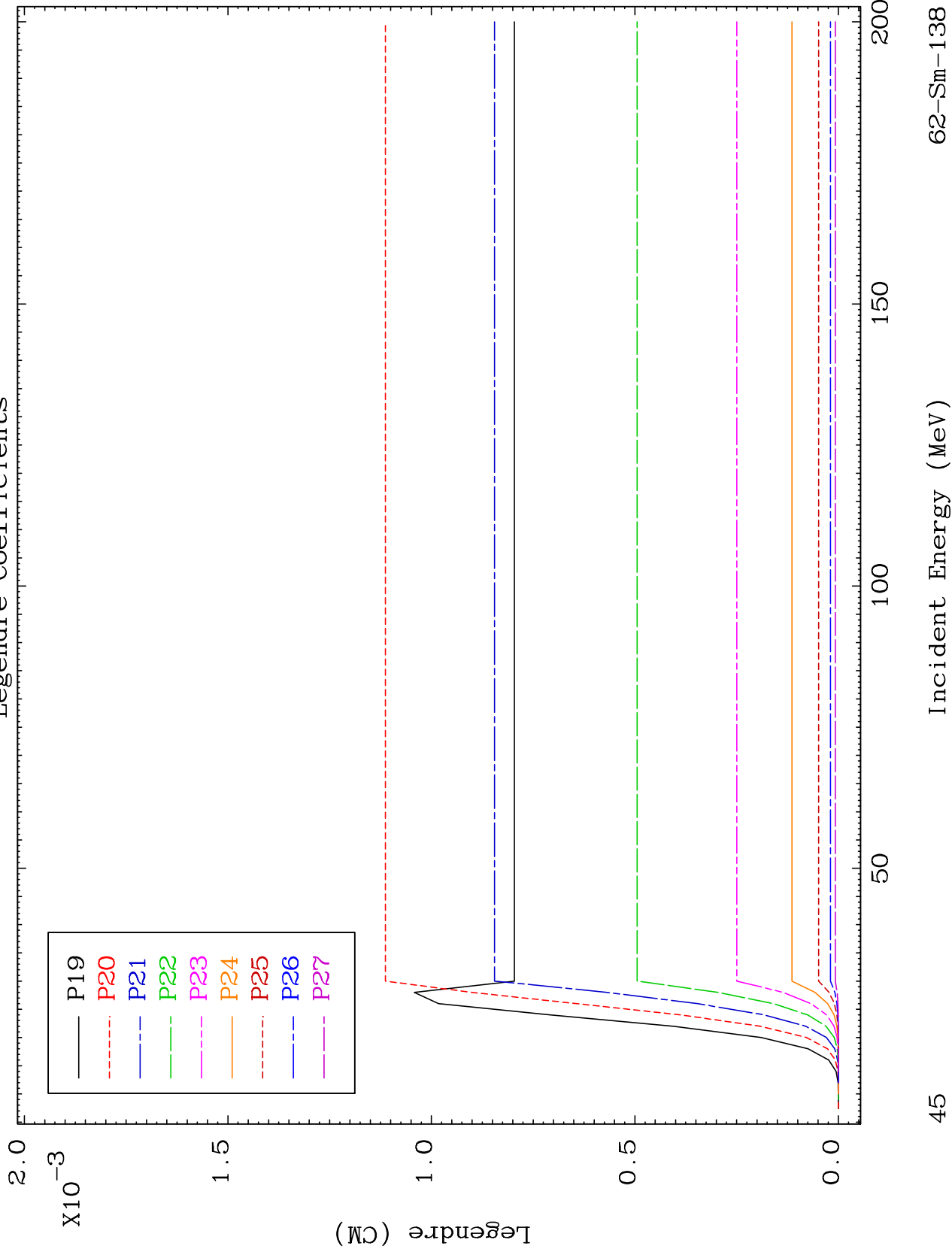
Incident Energy (MeV)

62-Sm-138

MAT 6207

1.656 MeV (n, n') Level
Legendre Coefficients

62-Sm-138



45

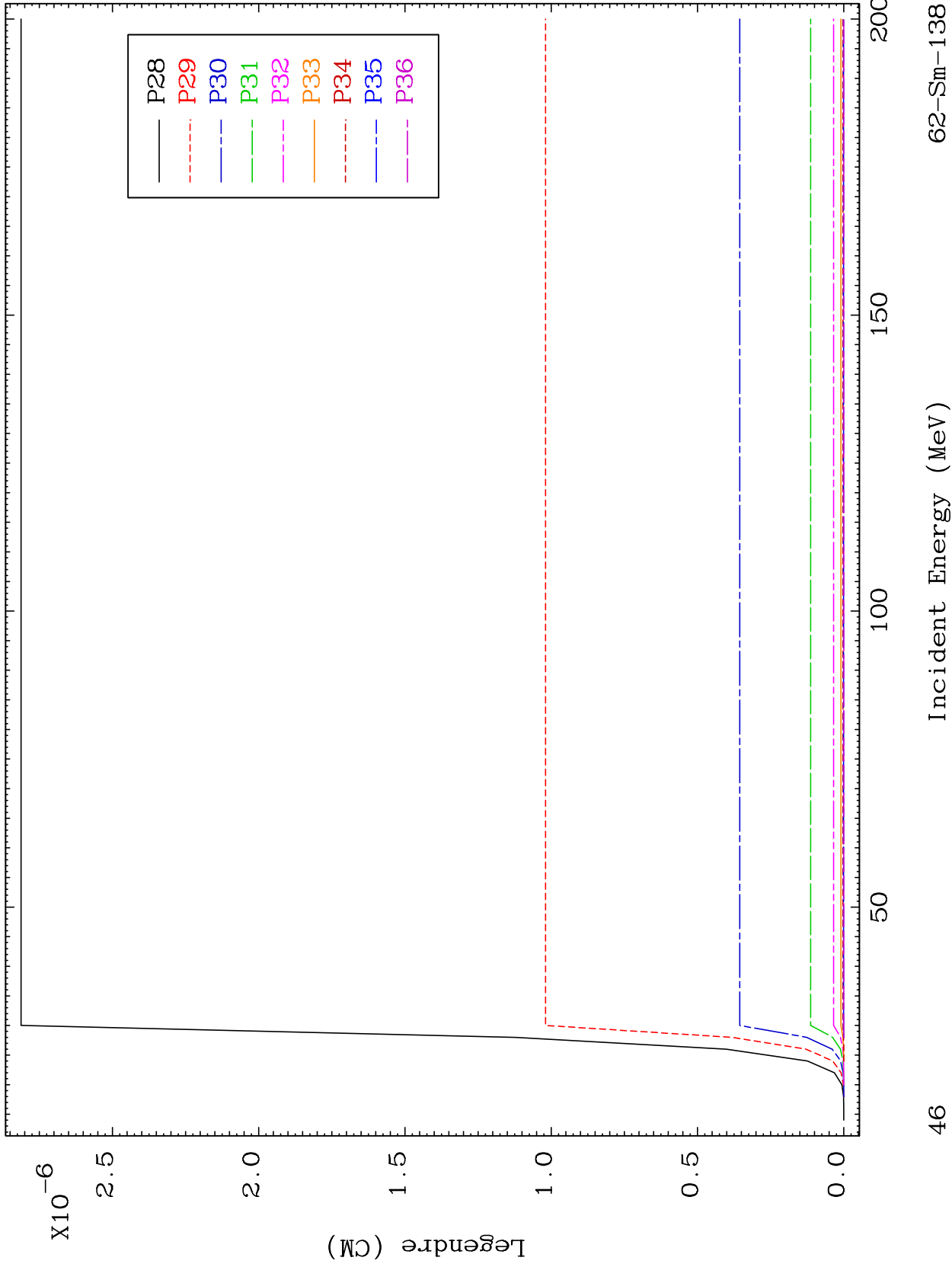
Incident Energy (MeV)

62-Sm-138

MAT 6207

1.656 MeV (n,n') Level
Legendre Coefficients

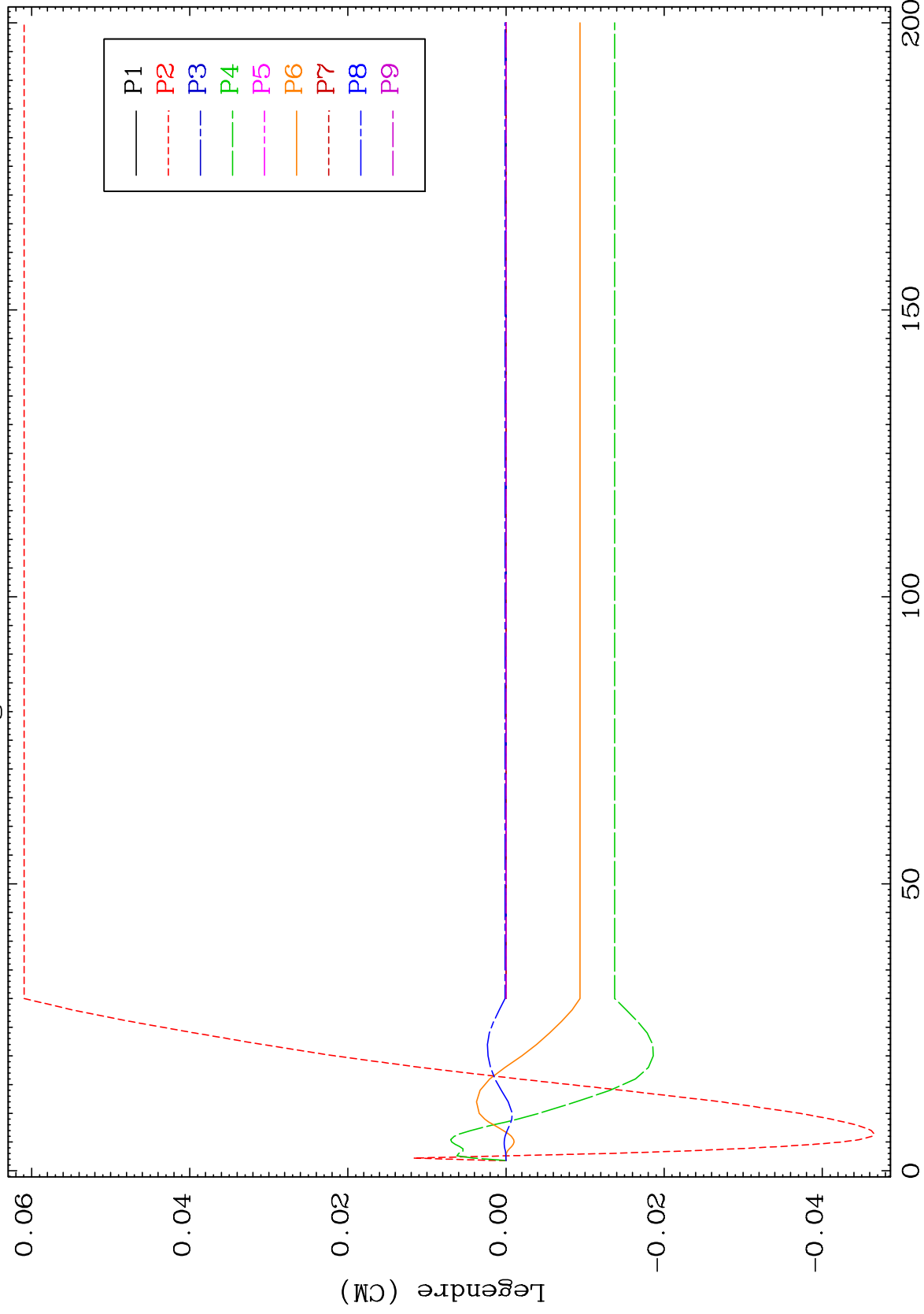
62-Sm-138



MAT 6207

1.733 MeV (n,n') Level
Legendre Coefficients

62-Sm-138



47

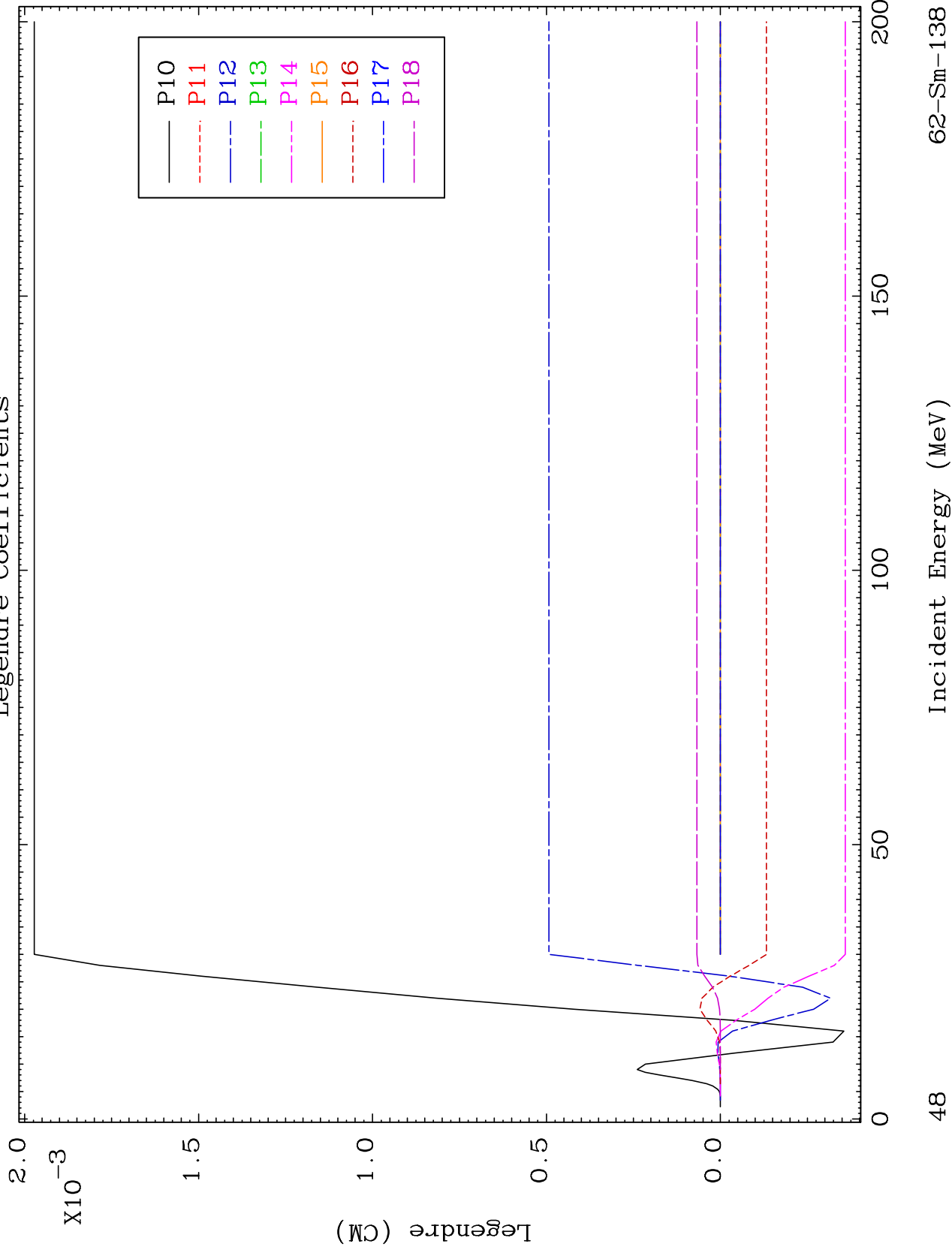
Incident Energy (MeV)

62-Sm-138

MAT 6207

1.733 MeV (n,n') Level
Legendre Coefficients

62-Sm-138



48

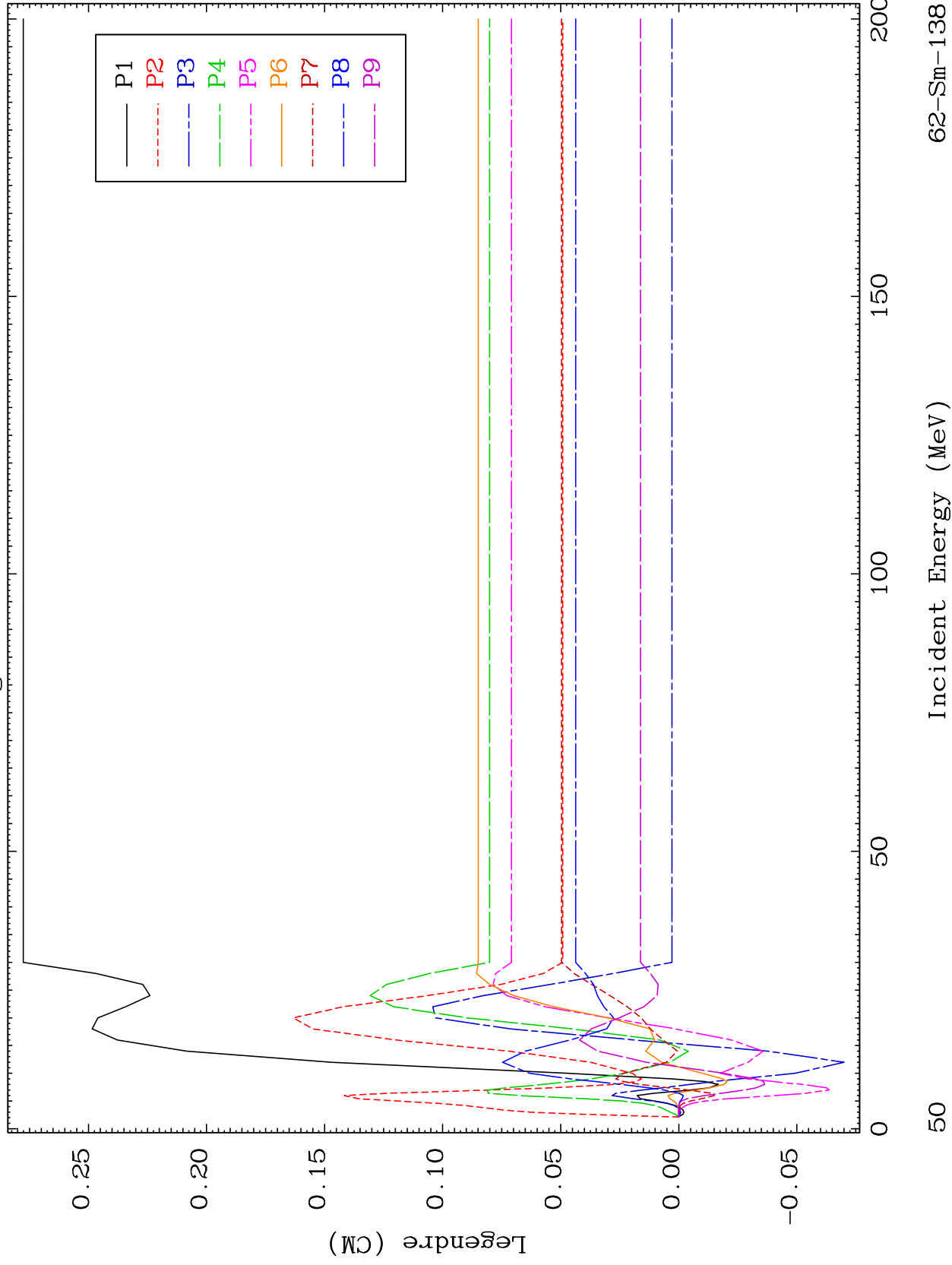
Incident Energy (MeV)

62-Sm-138

MAT 6207

2.097 MeV (n, n') Level
Legendre Coefficients

62-Sm-138



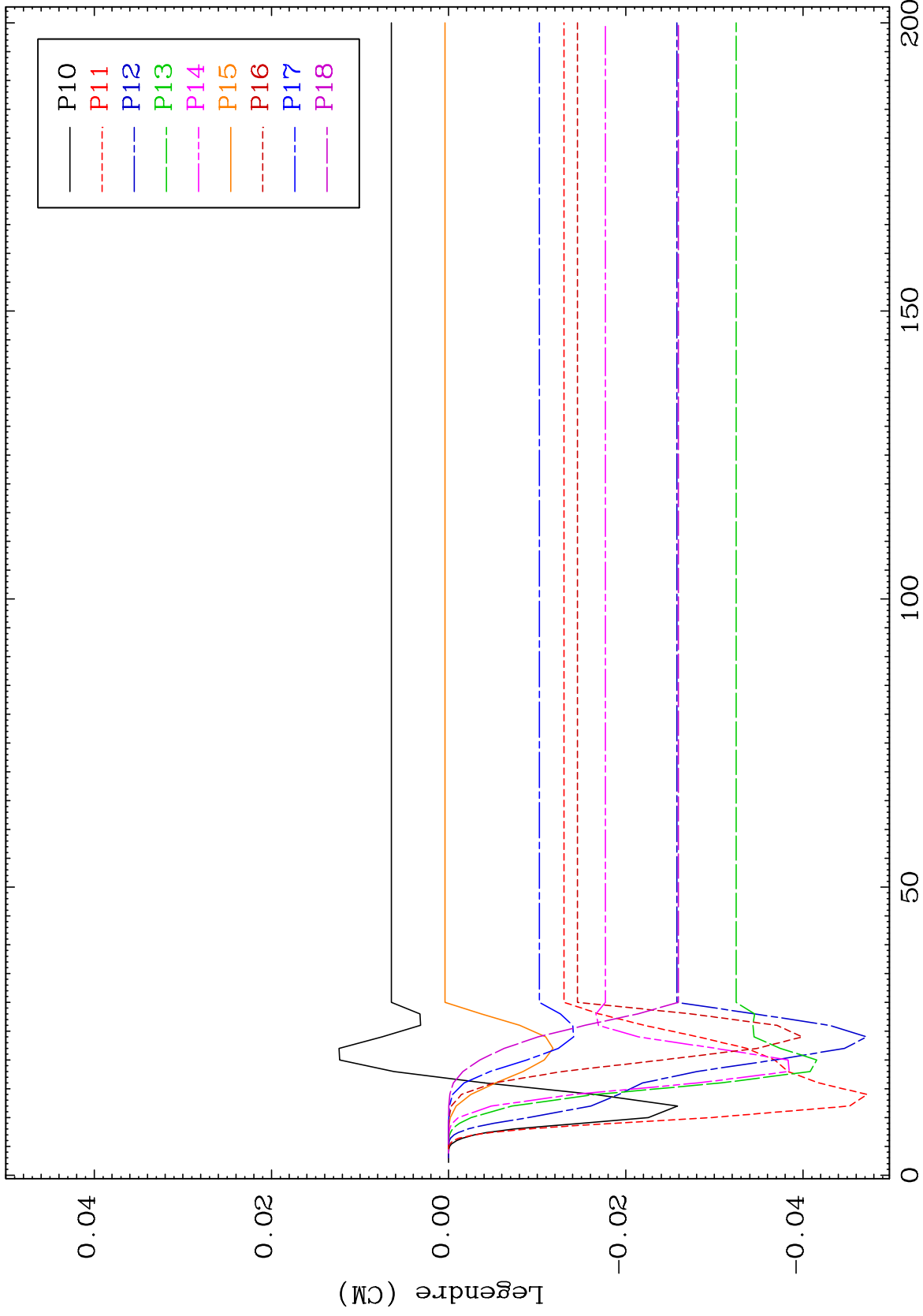
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Incident Energy (MeV)

MAT 6207

2.097 MeV (n,n') Level
Legendre Coefficients

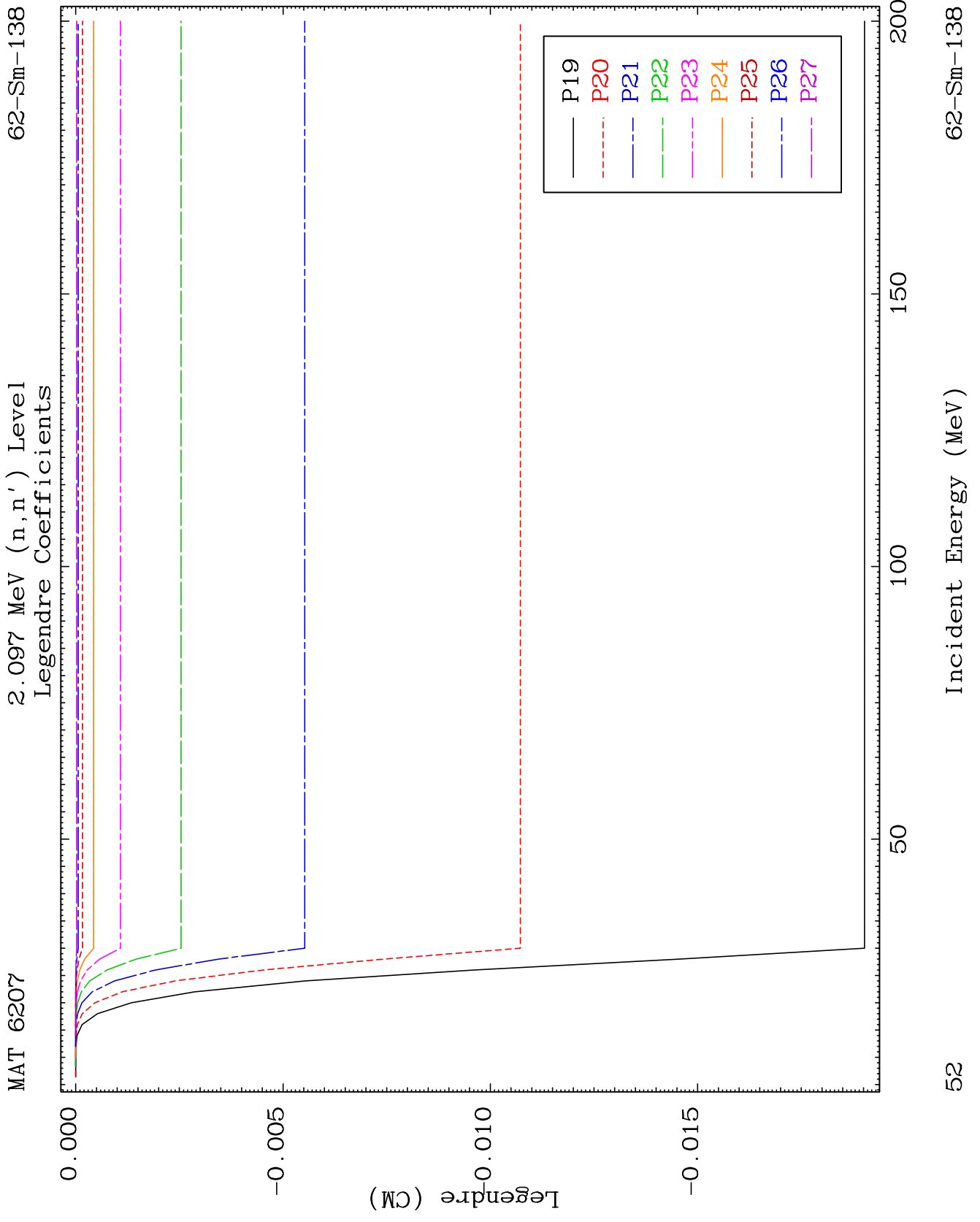
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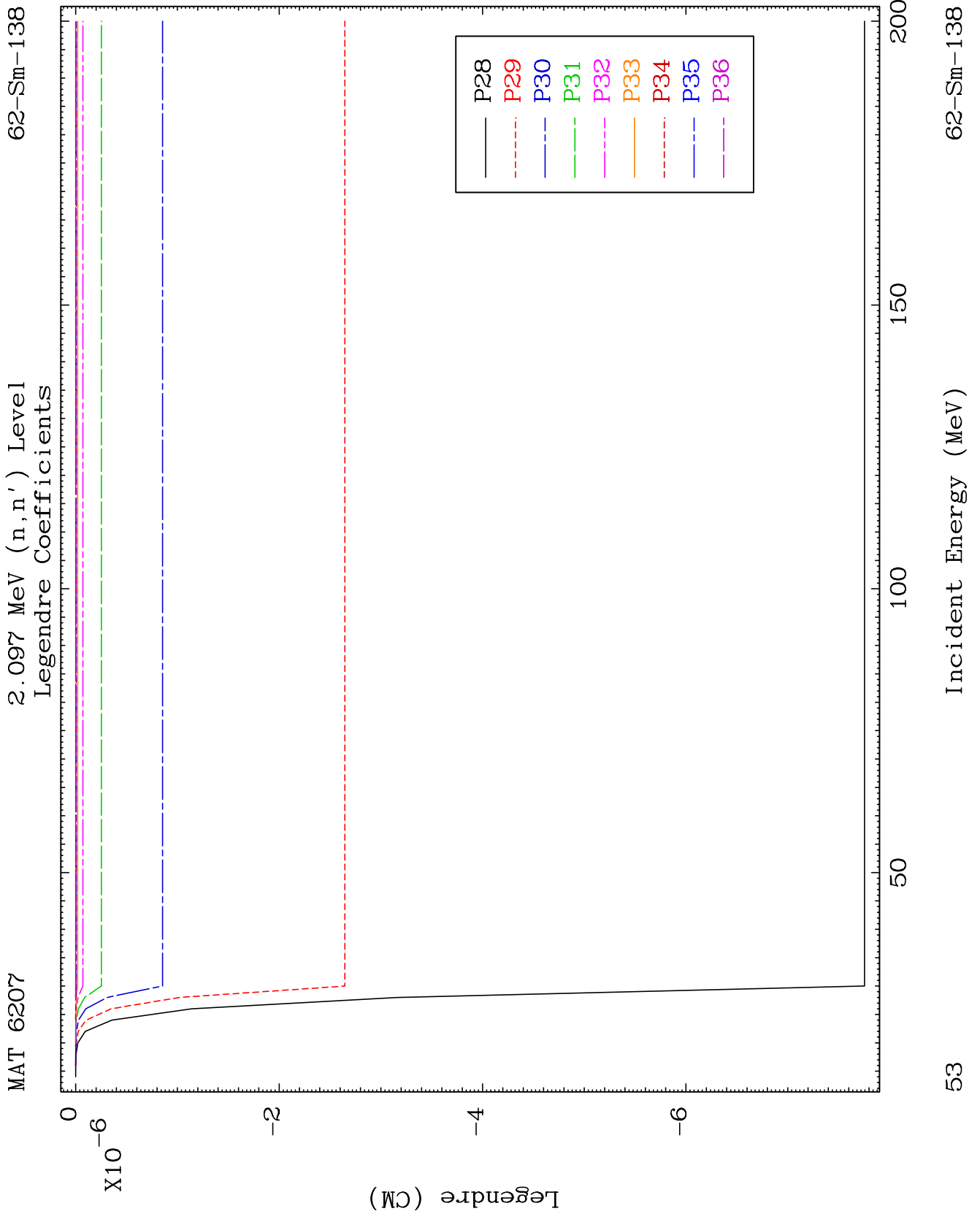


51

Incident Energy (MeV)

62-Sm-138

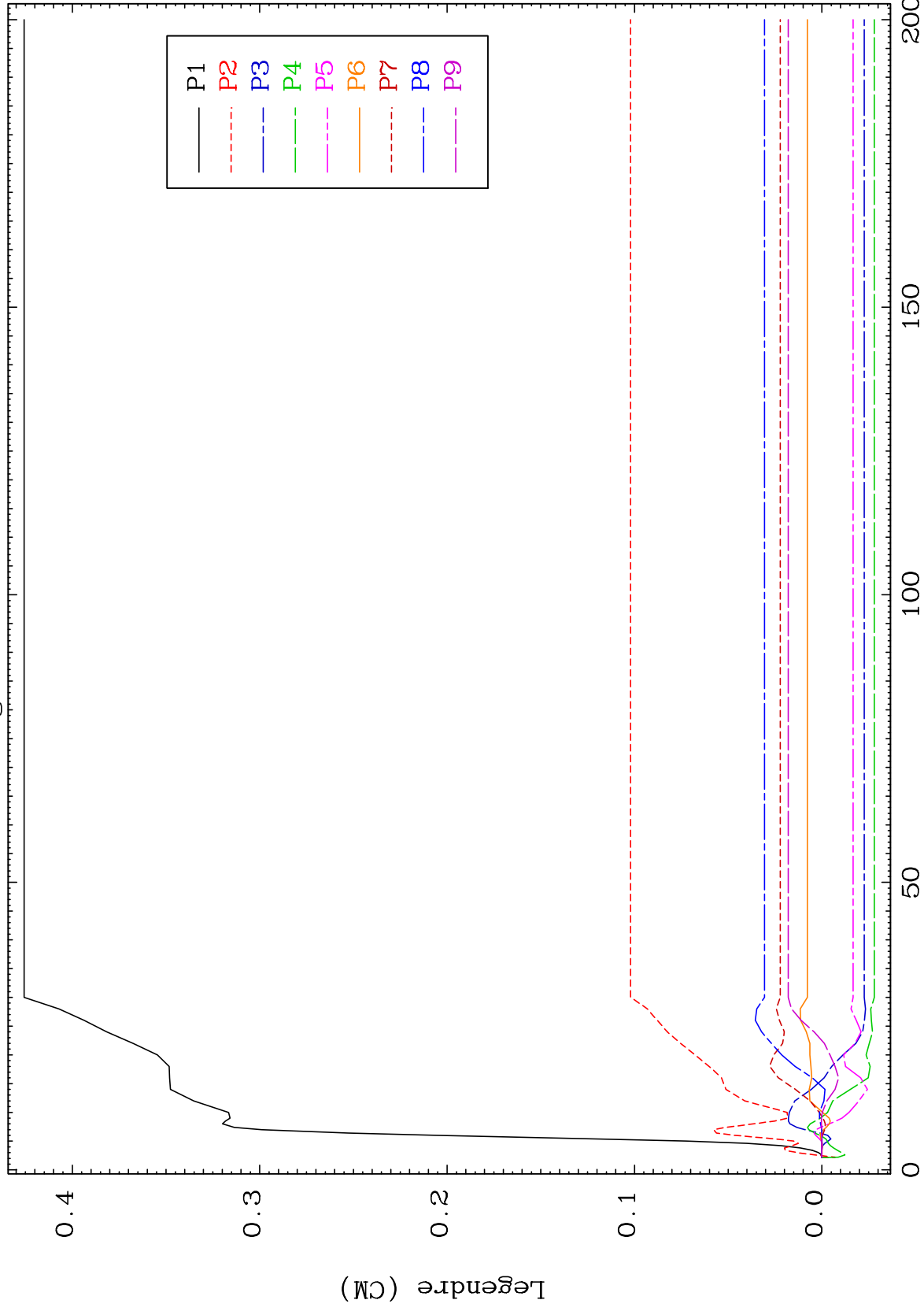




MAT 6207

2.105 MeV (n, n') Level
Legendre Coefficients

62-Sm-138



54

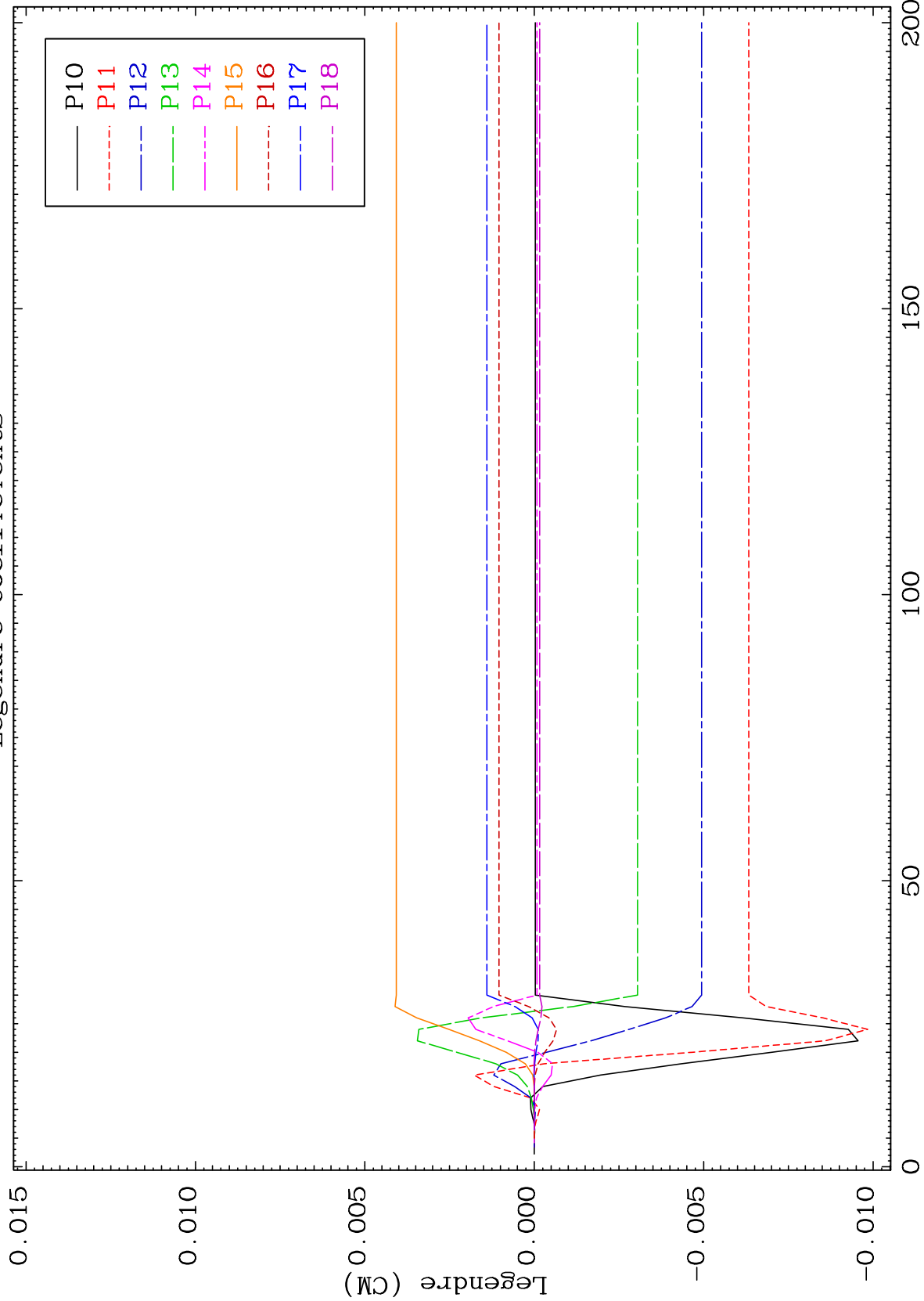
Incident Energy (MeV)

62-Sm-138

MAT 6207

2.105 MeV (n,n') Level
Legendre Coefficients

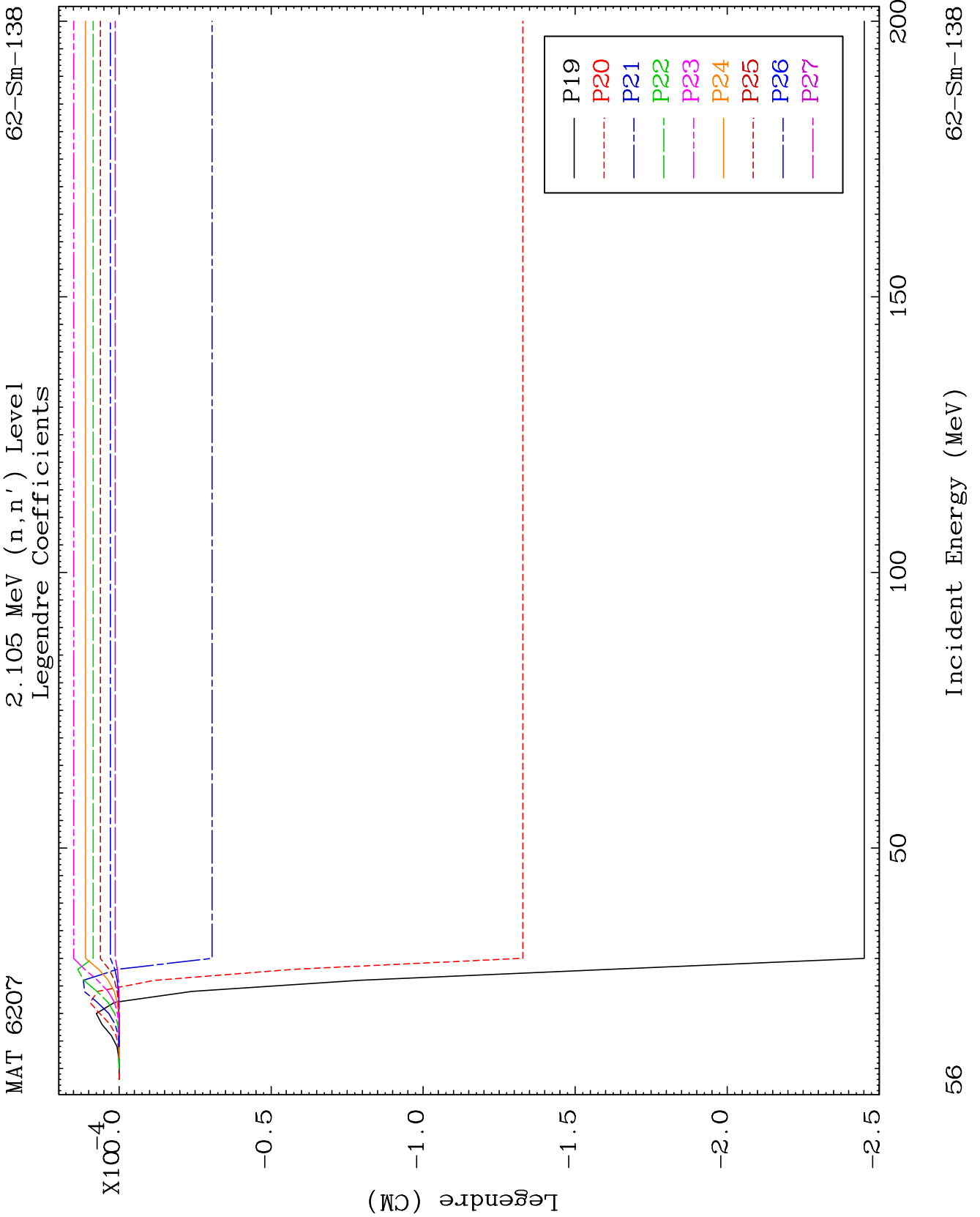
62-Sm-138



55

Incident Energy (MeV)

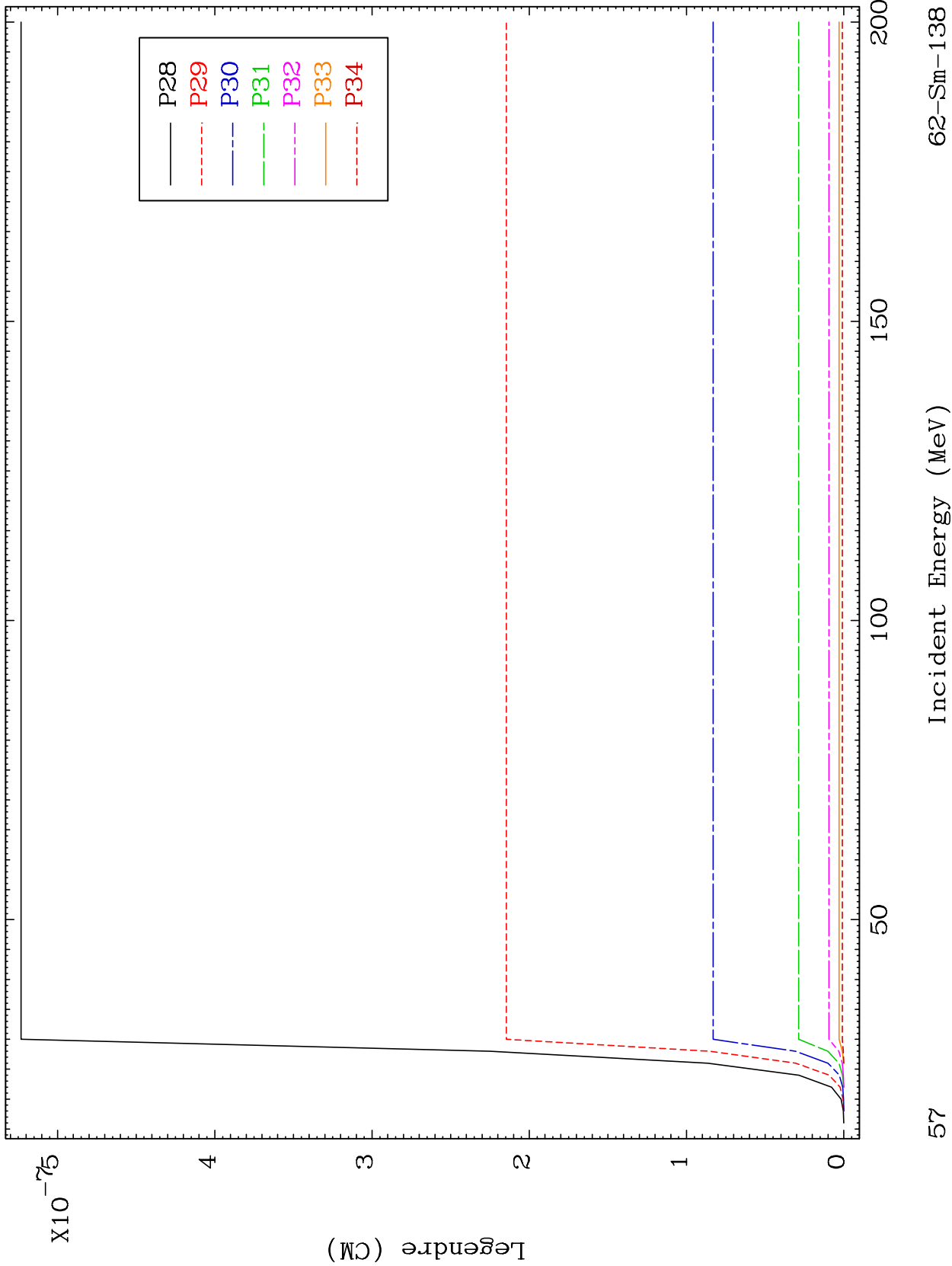
62-Sm-138



MAT 6207

2.105 MeV (n,n') Level
Legendre Coefficients

62-Sm-138



57

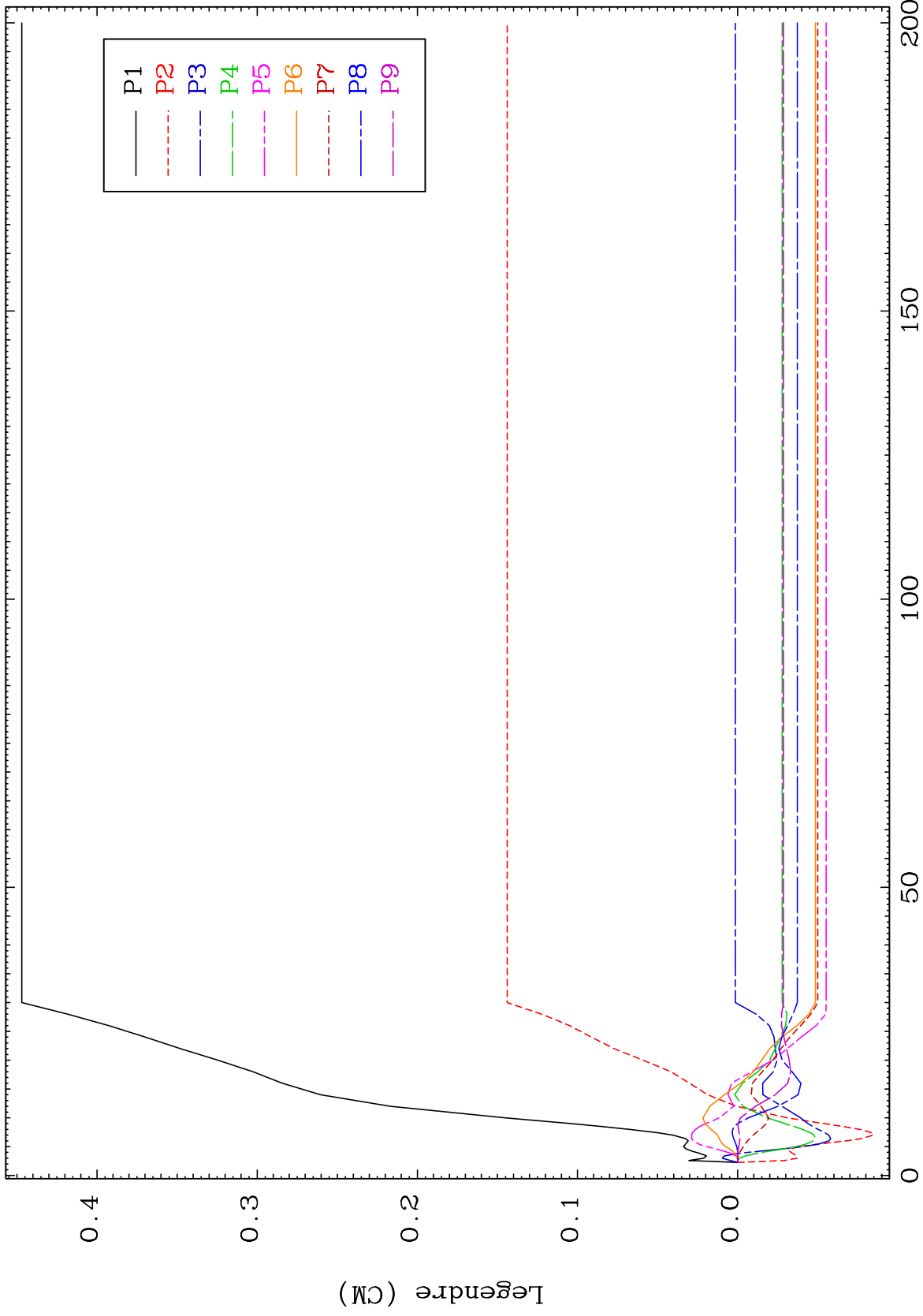
Incident Energy (MeV)

62-Sm-138

MAT 6207

2.237 MeV (n,n') Level
Legendre Coefficients

62-Sm-138



58

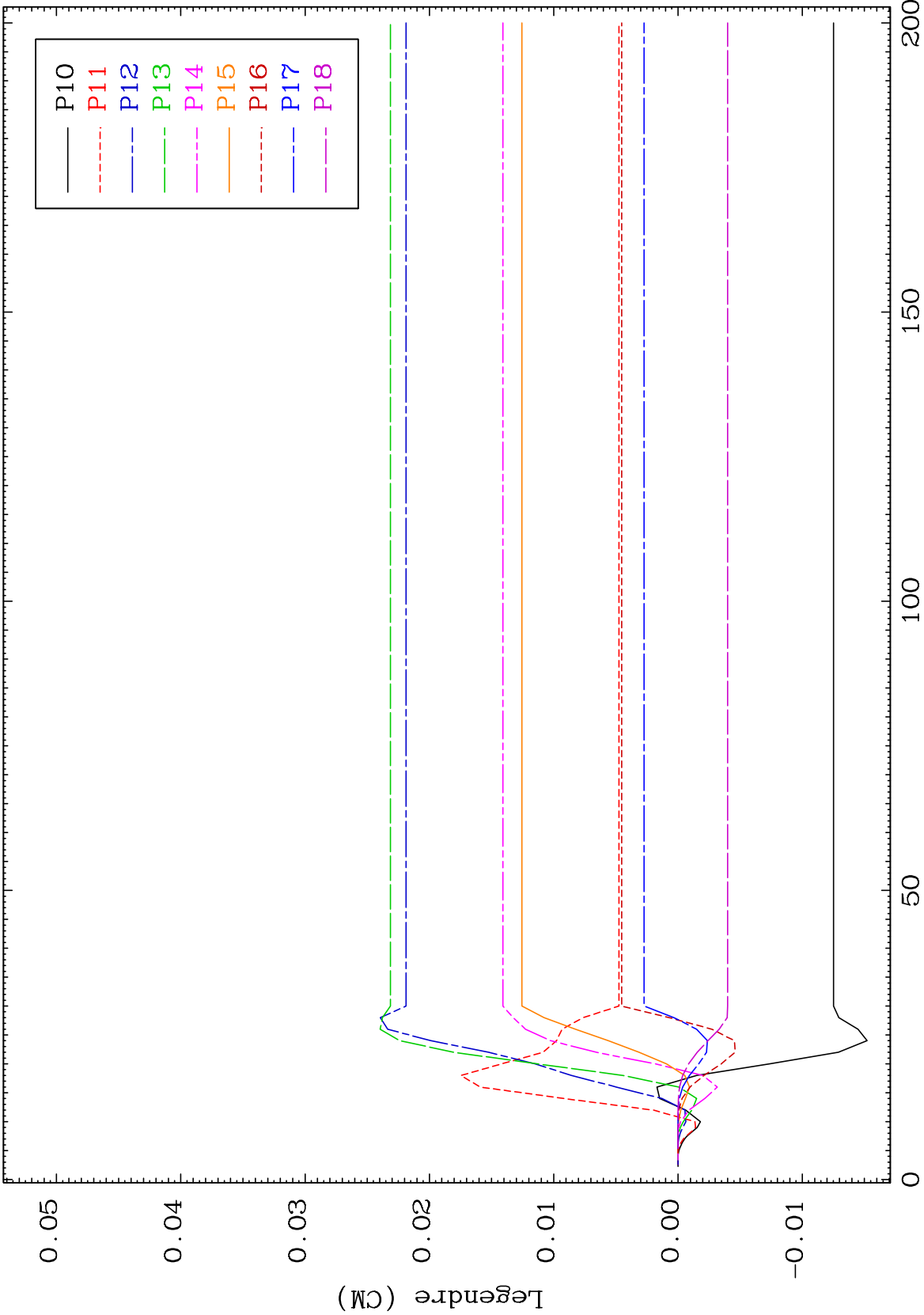
Incident Energy (MeV)

62-Sm-138

MAT 6207

2.237 MeV (n,n') Level
Legendre Coefficients

62-Sm-138



59

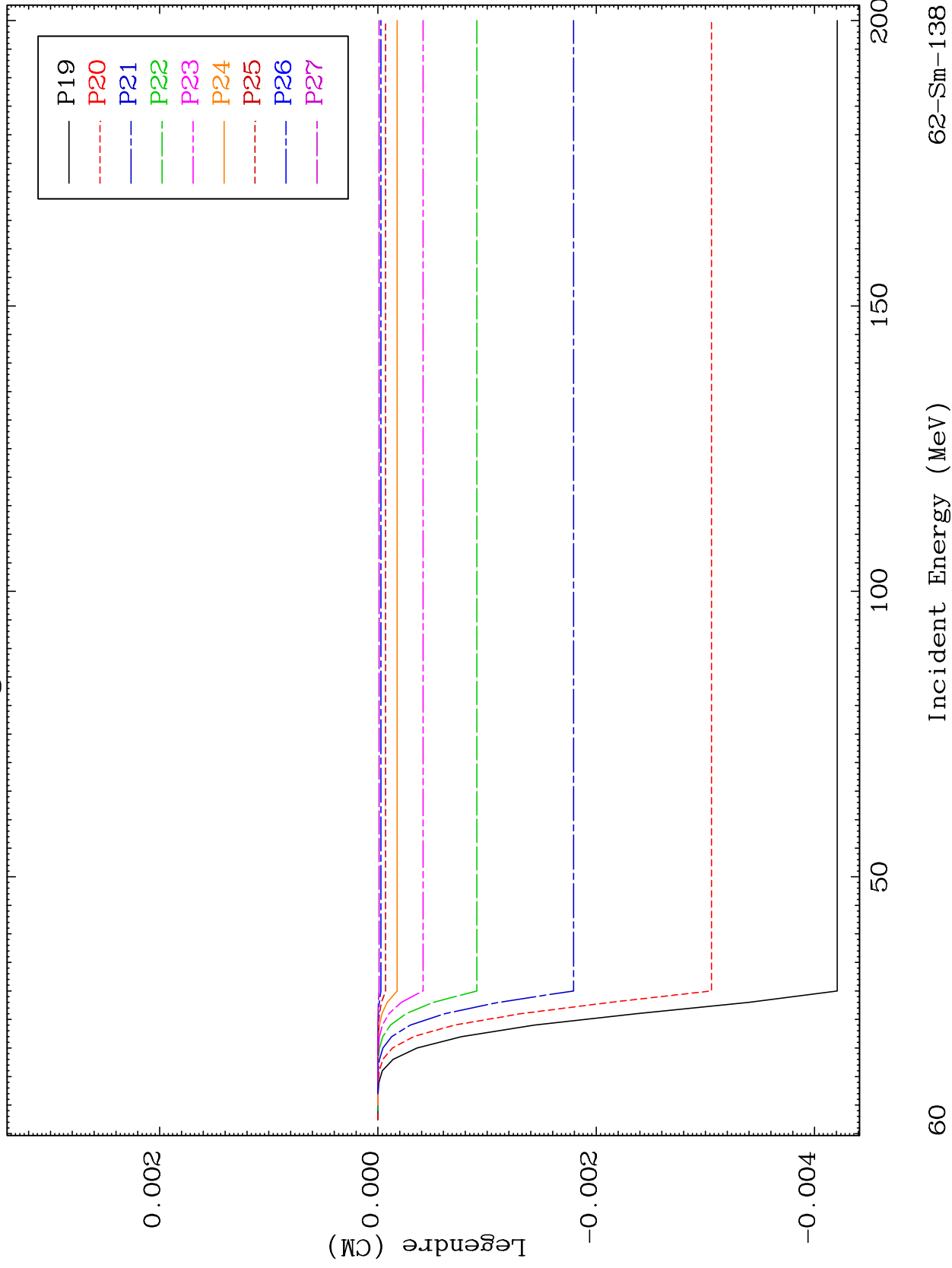
Incident Energy (MeV)

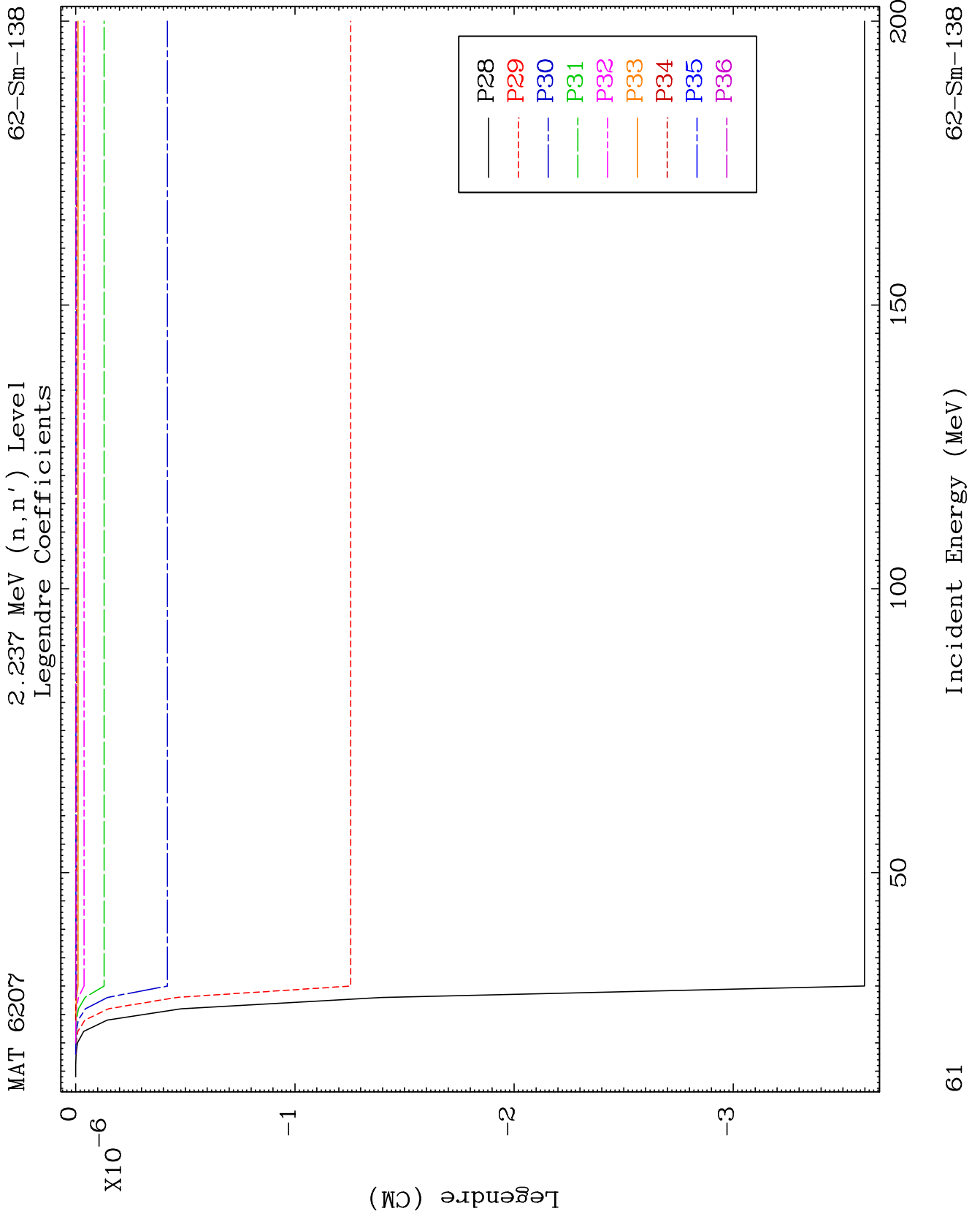
62-Sm-138

MAT 6207

2.237 MeV (n,n') Level
Legendre Coefficients

62-Sm-138

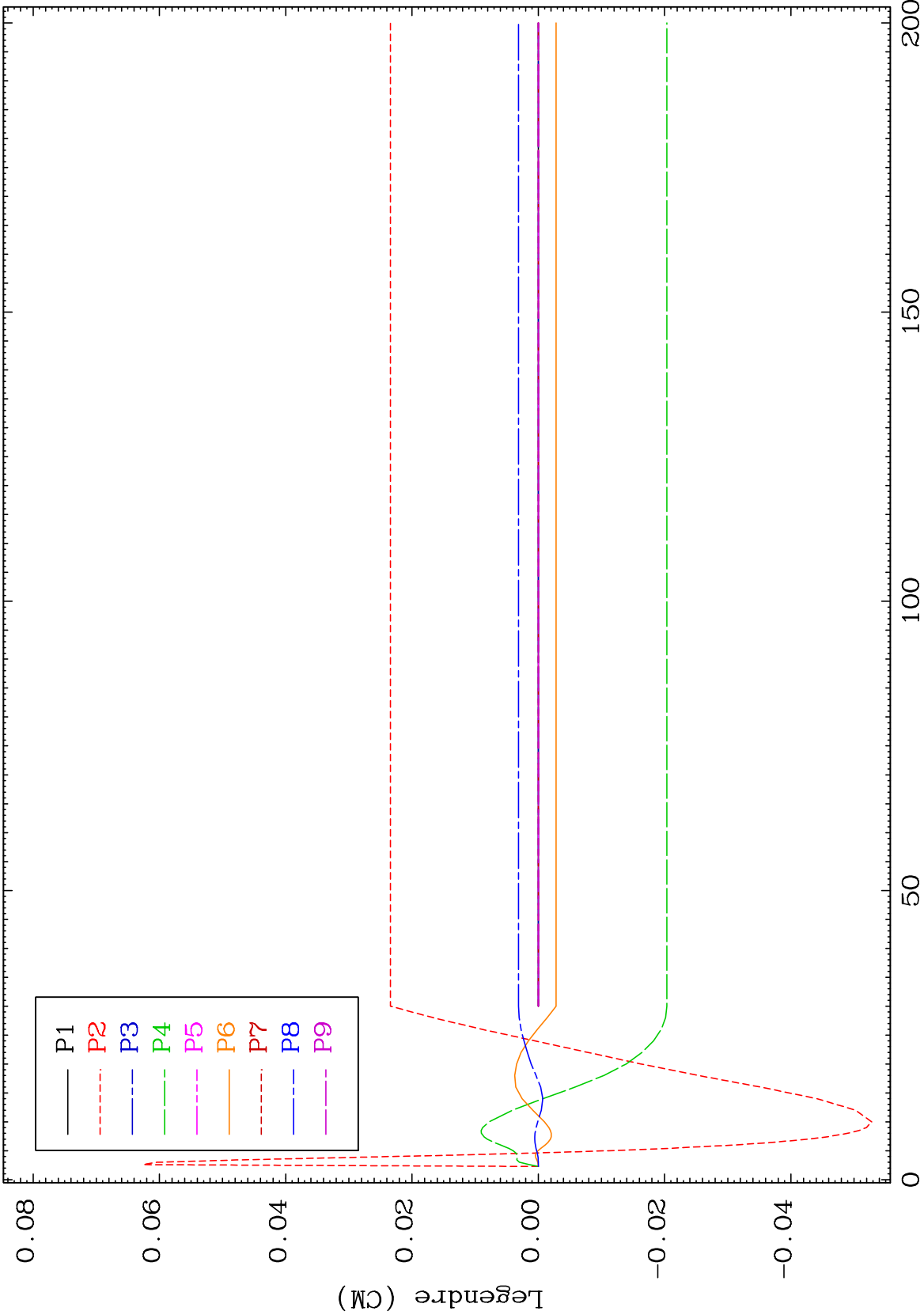




MAT 6207

2.258 MeV (n,n') Level
Legendre Coefficients

62-Sm-138



62

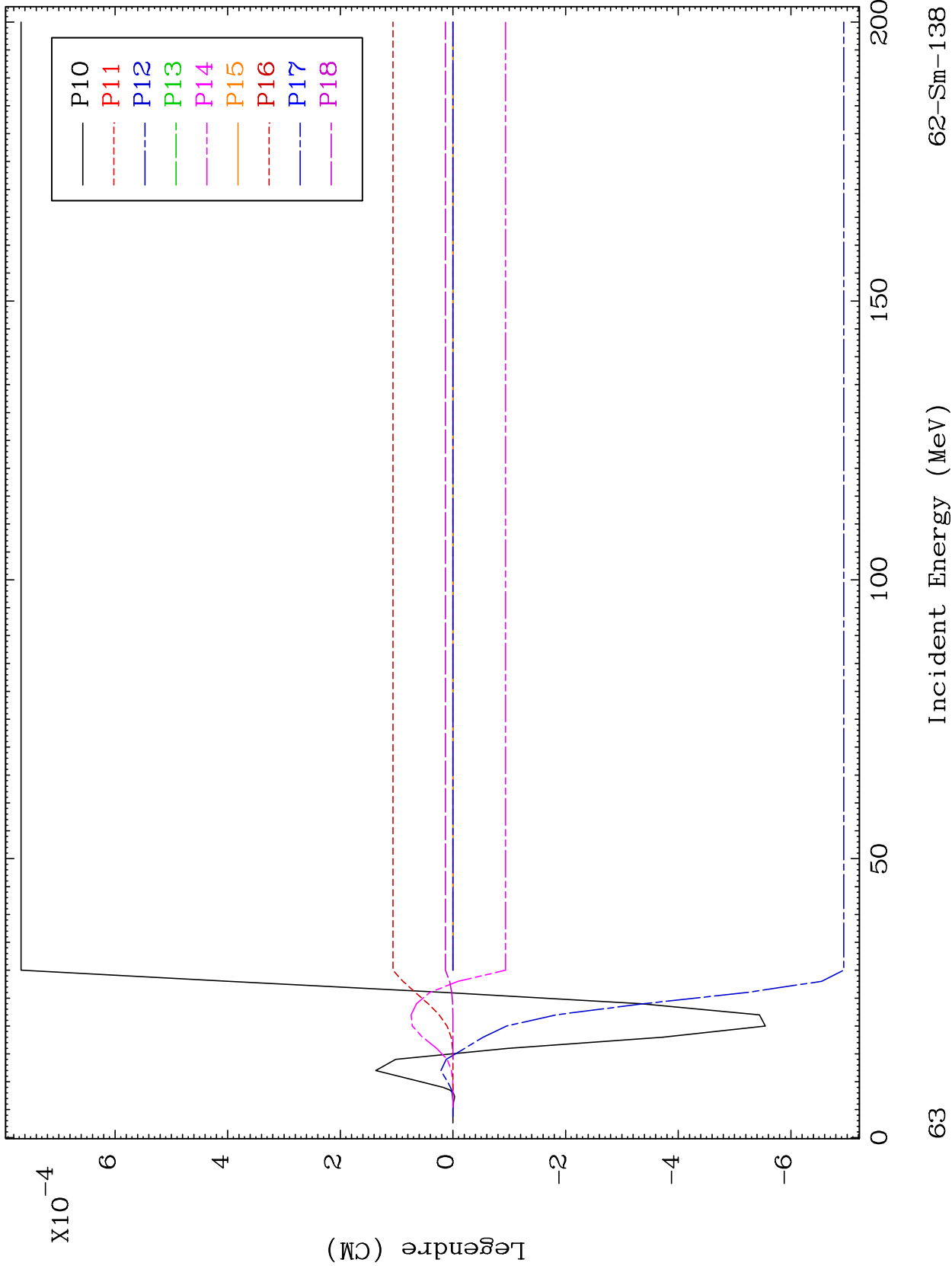
Incident Energy (MeV)

62-Sm-138

MAT 6207

2.258 MeV (n,n') Level
Legendre Coefficients

62-Sm-138



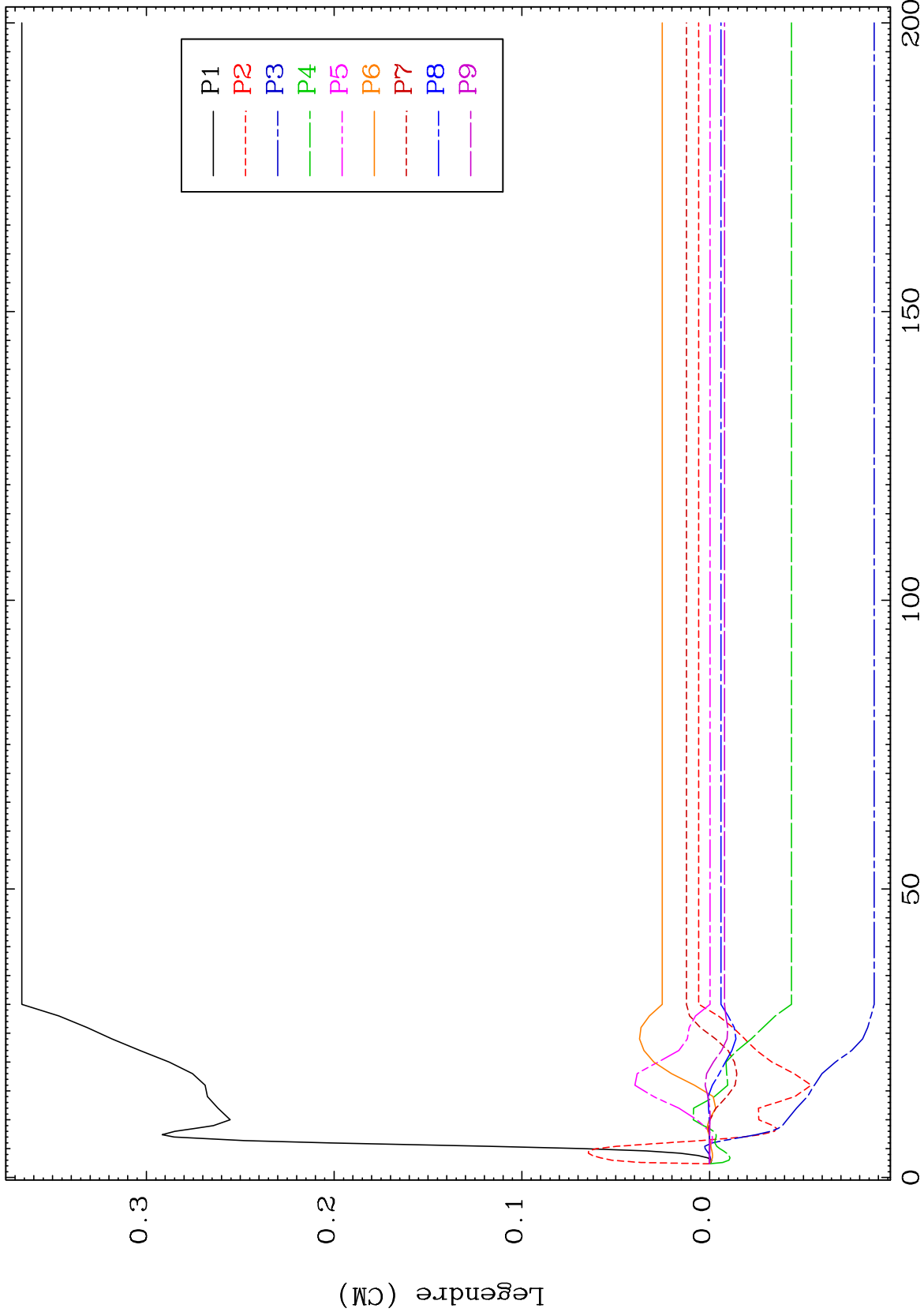
63

62-Sm-138

MAT 6207

2.353 MeV (n,n') Level
Legendre Coefficients

62-Sm-138



65

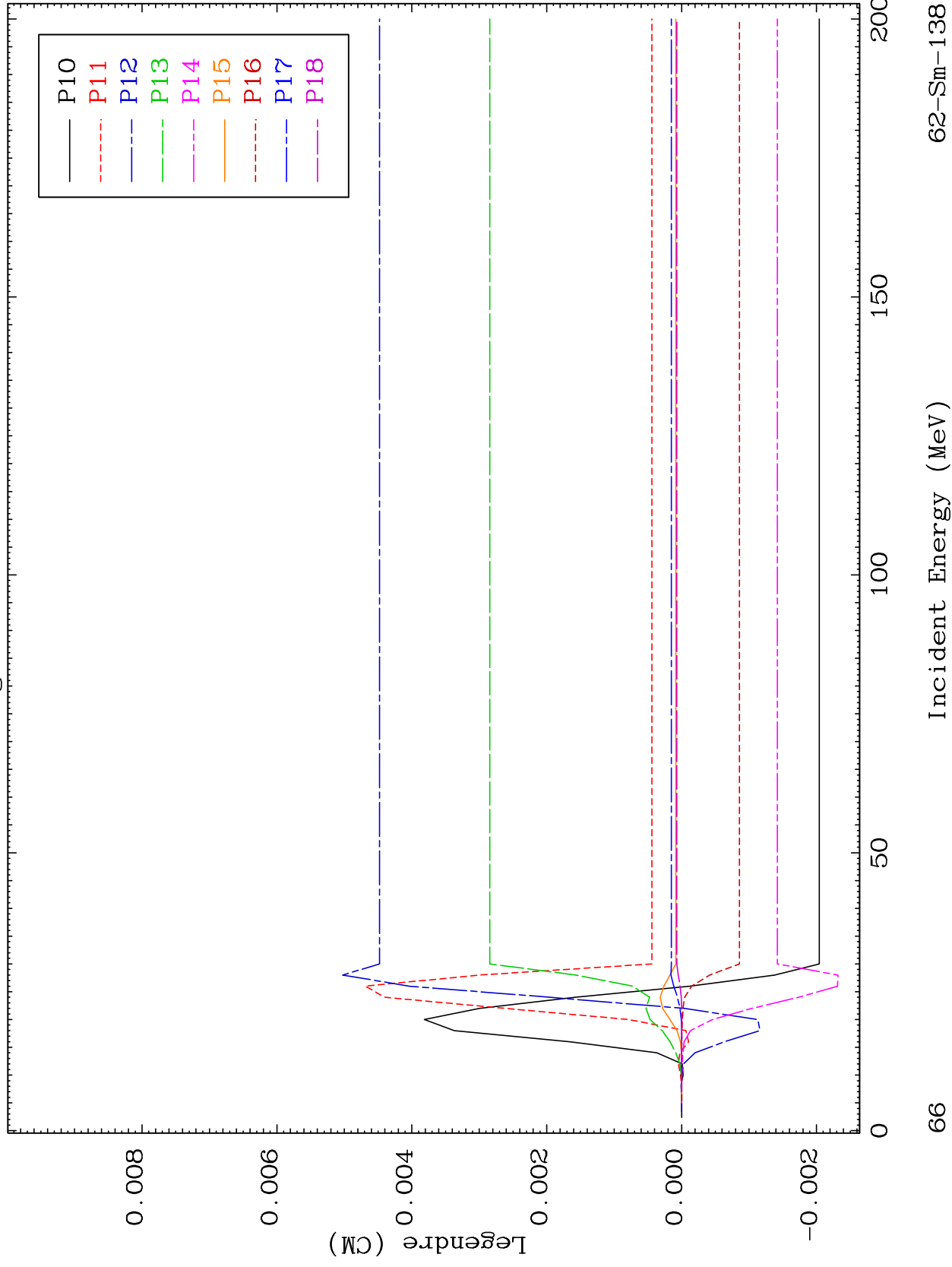
Incident Energy (MeV)

62-Sm-138

MAT 6207

2.353 MeV (n,n') Level
Legendre Coefficients

62-Sm-138



62-Sm-138

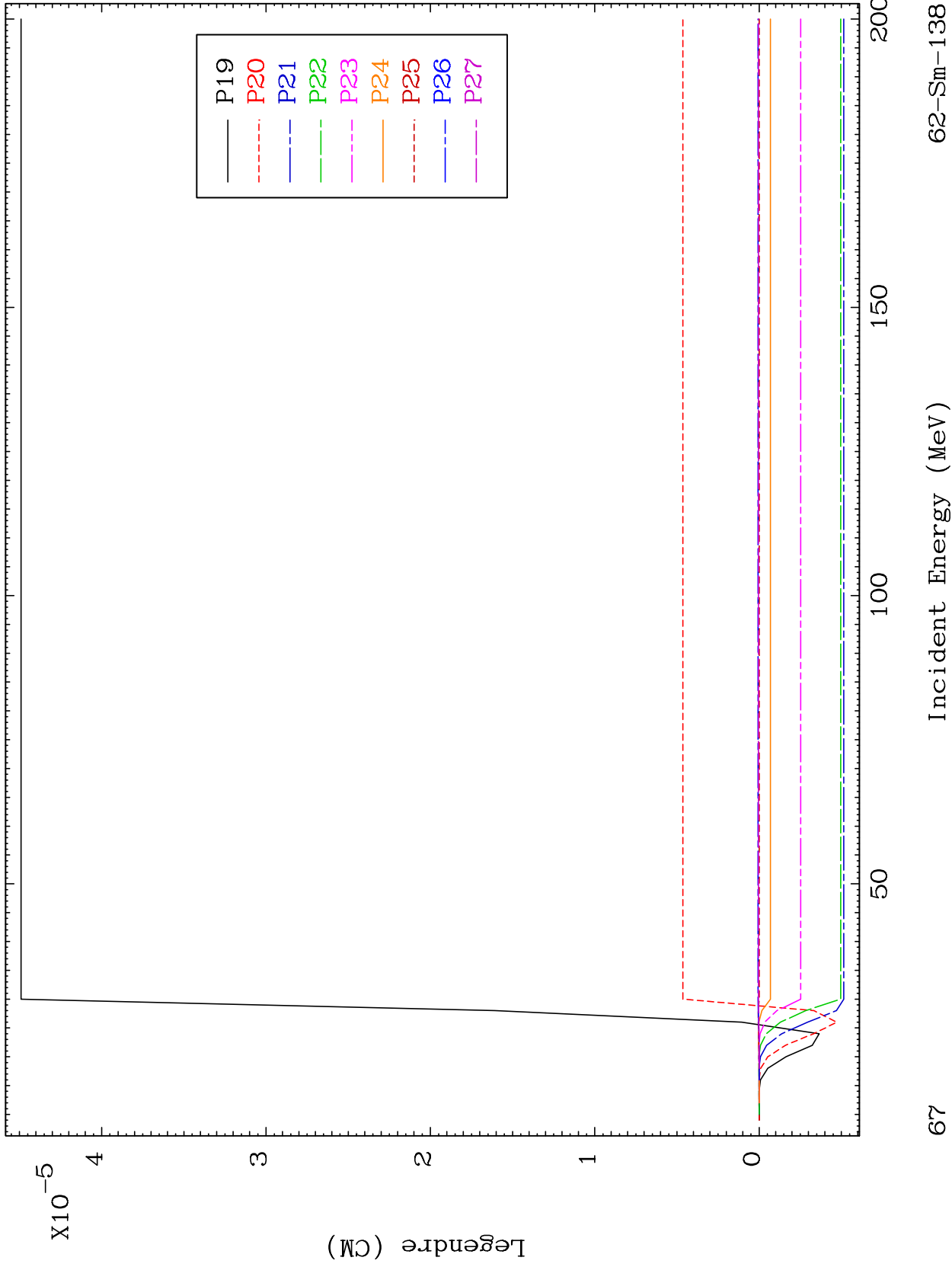
Incident Energy (MeV)

66

MAT 6207

2.353 MeV (n,n') Level
Legendre Coefficients

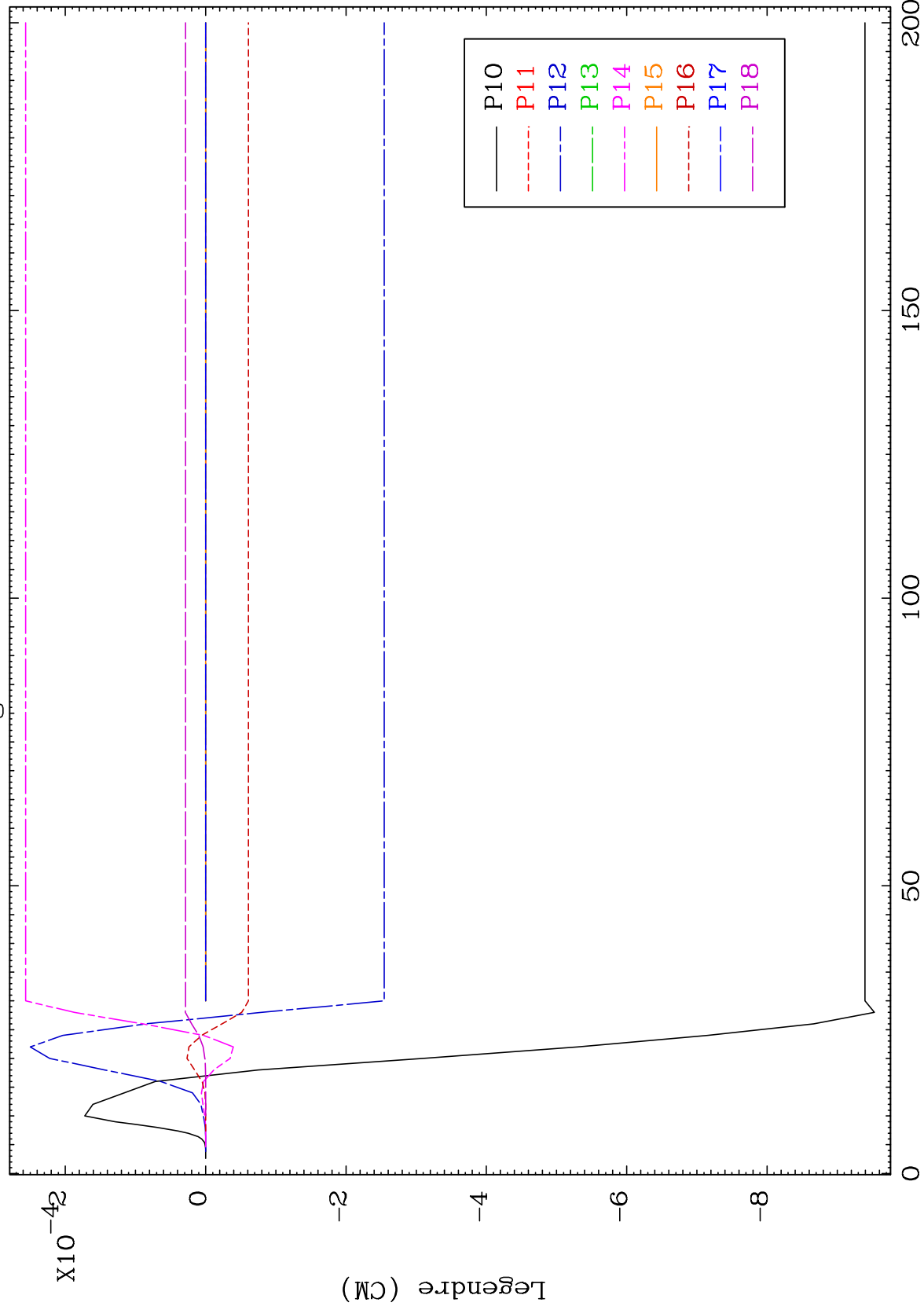
62-Sm-138



MAT 6207

2.501 MeV (n,n') Level
Legendre Coefficients

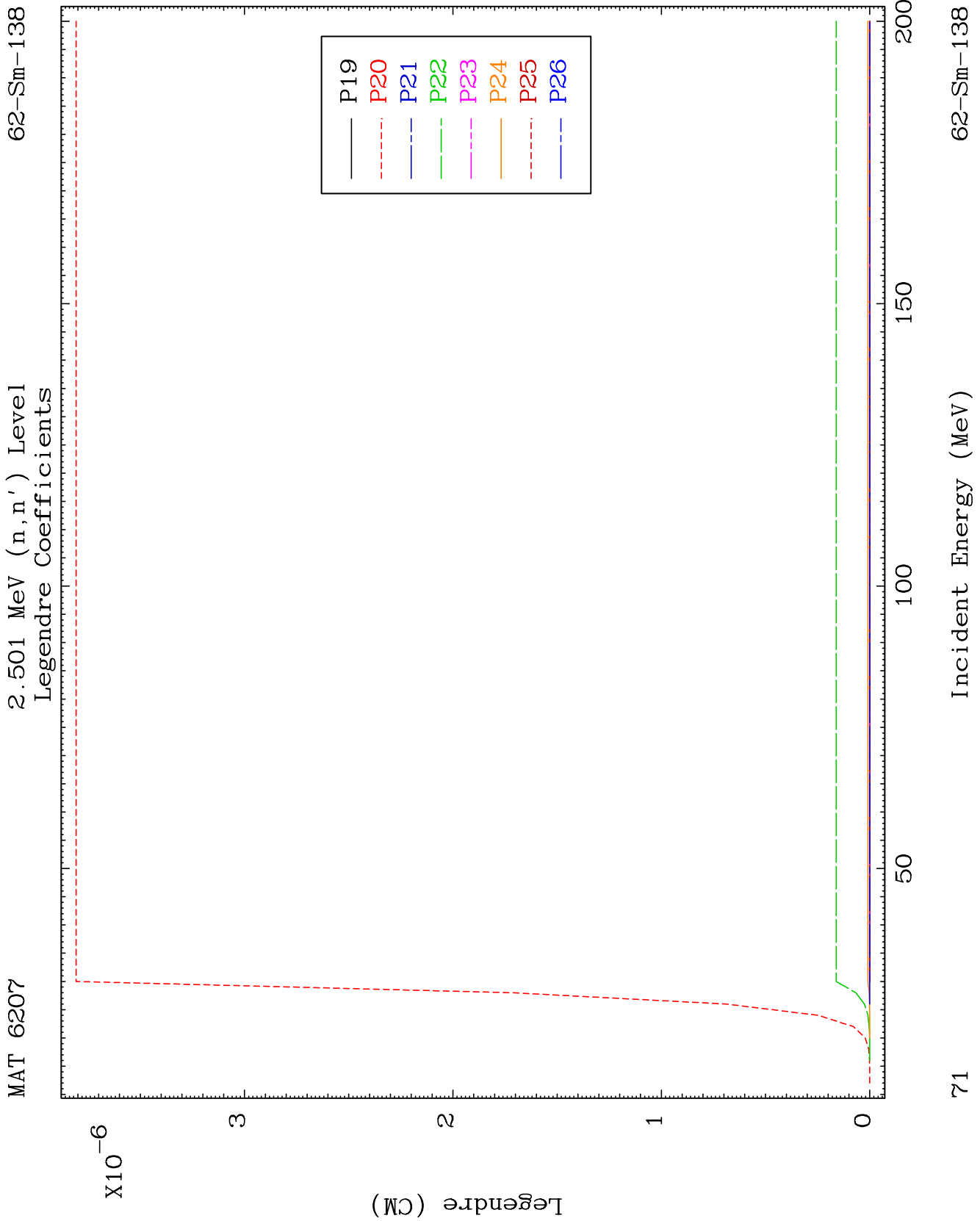
62-Sm-138



70

Incident Energy (MeV)

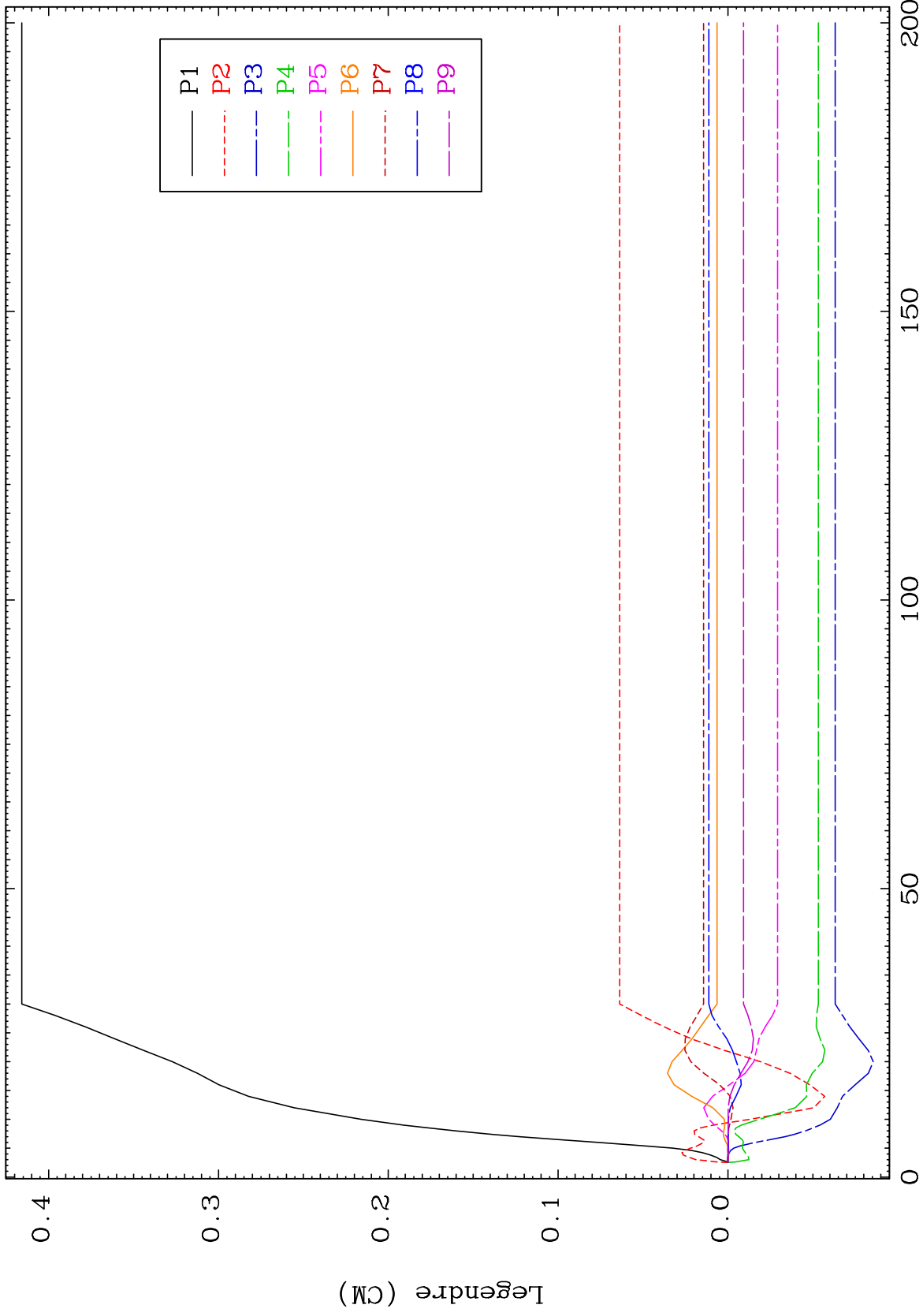
62-Sm-138



MAT 6207

2.509 MeV (n,n') Level
Legendre Coefficients

62-Sm-138



72

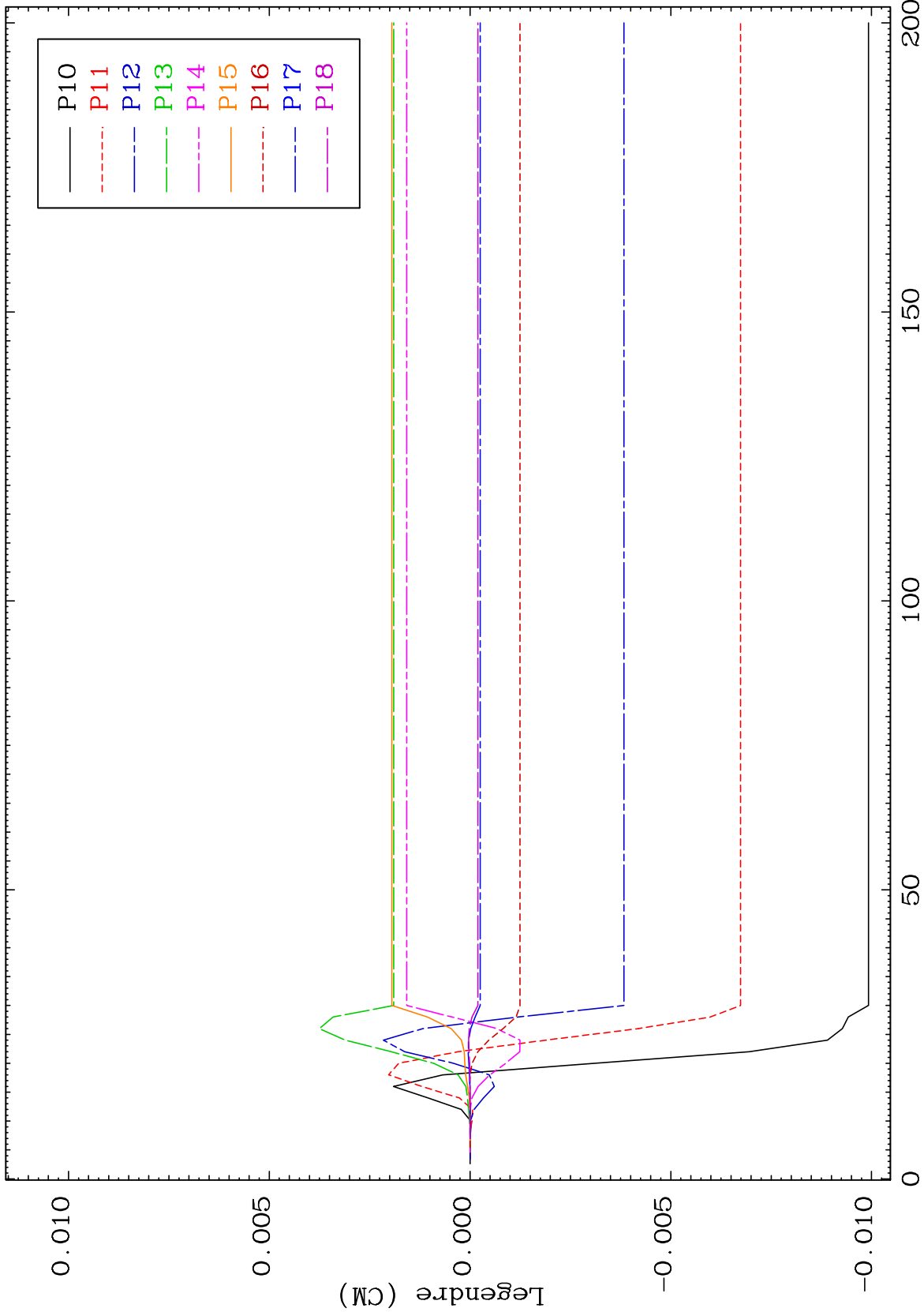
Incident Energy (MeV)

62-Sm-138

MAT 6207

2.509 MeV (n,n') Level
Legendre Coefficients

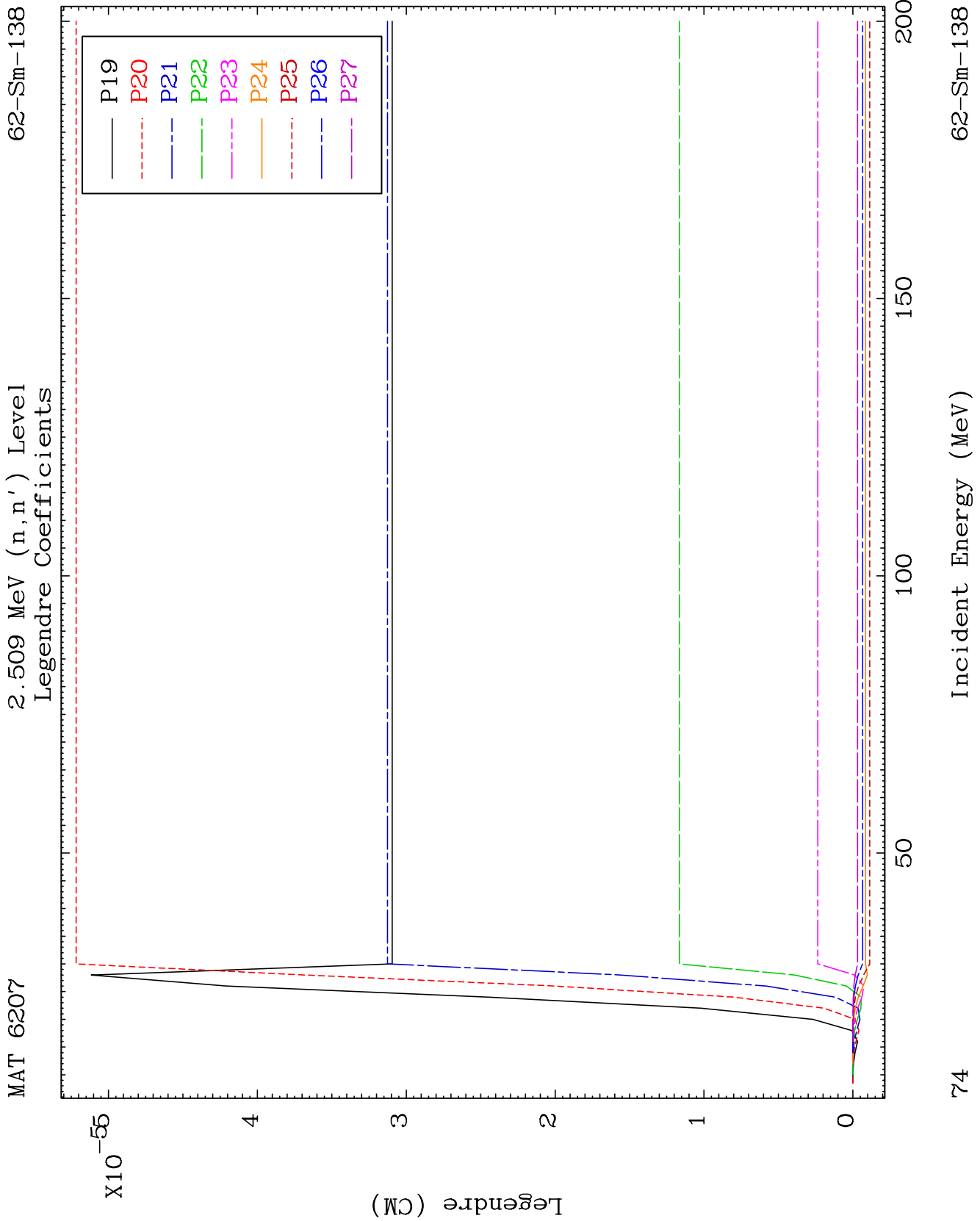
62-Sm-138

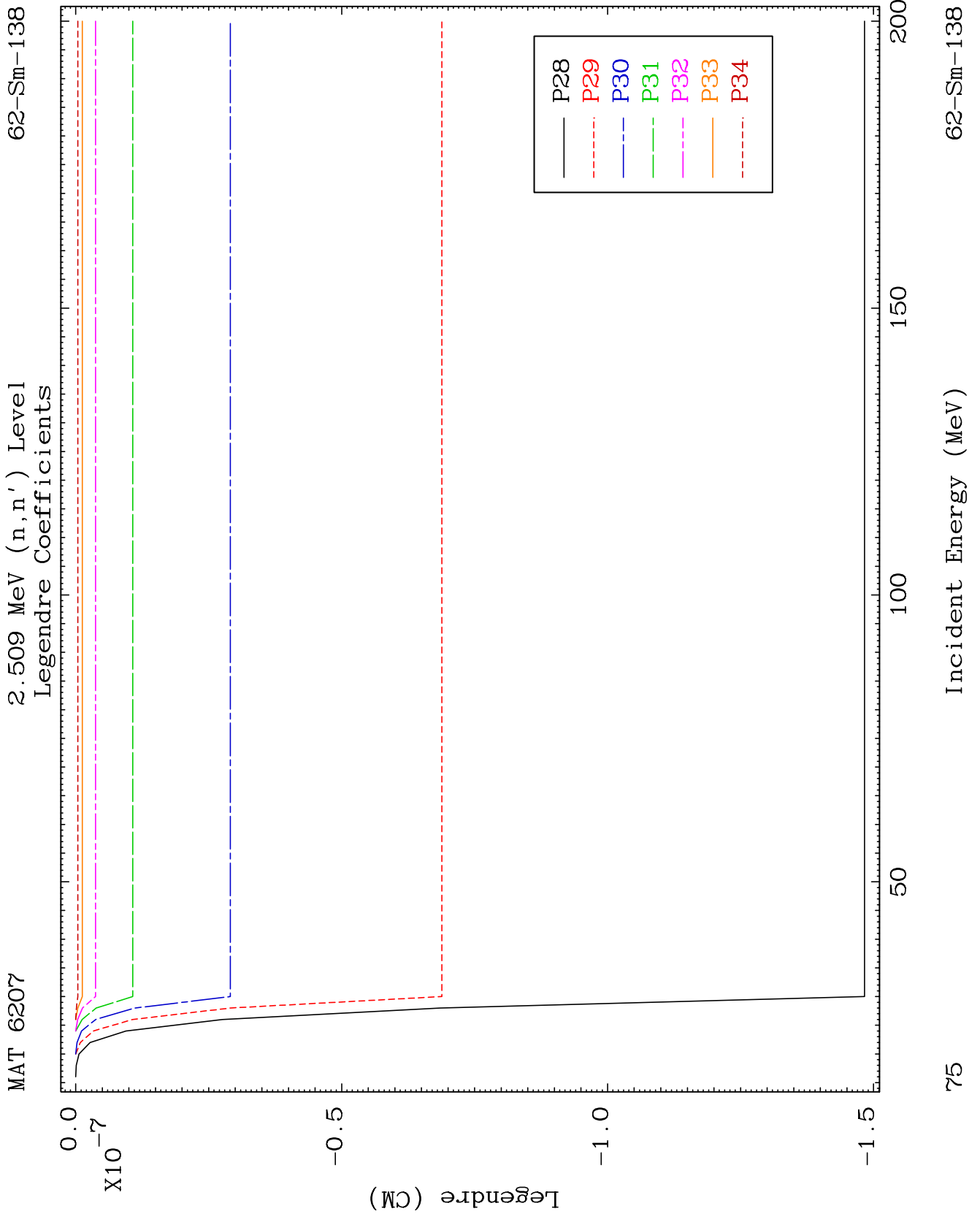


73

Incident Energy (MeV)

62-Sm-138

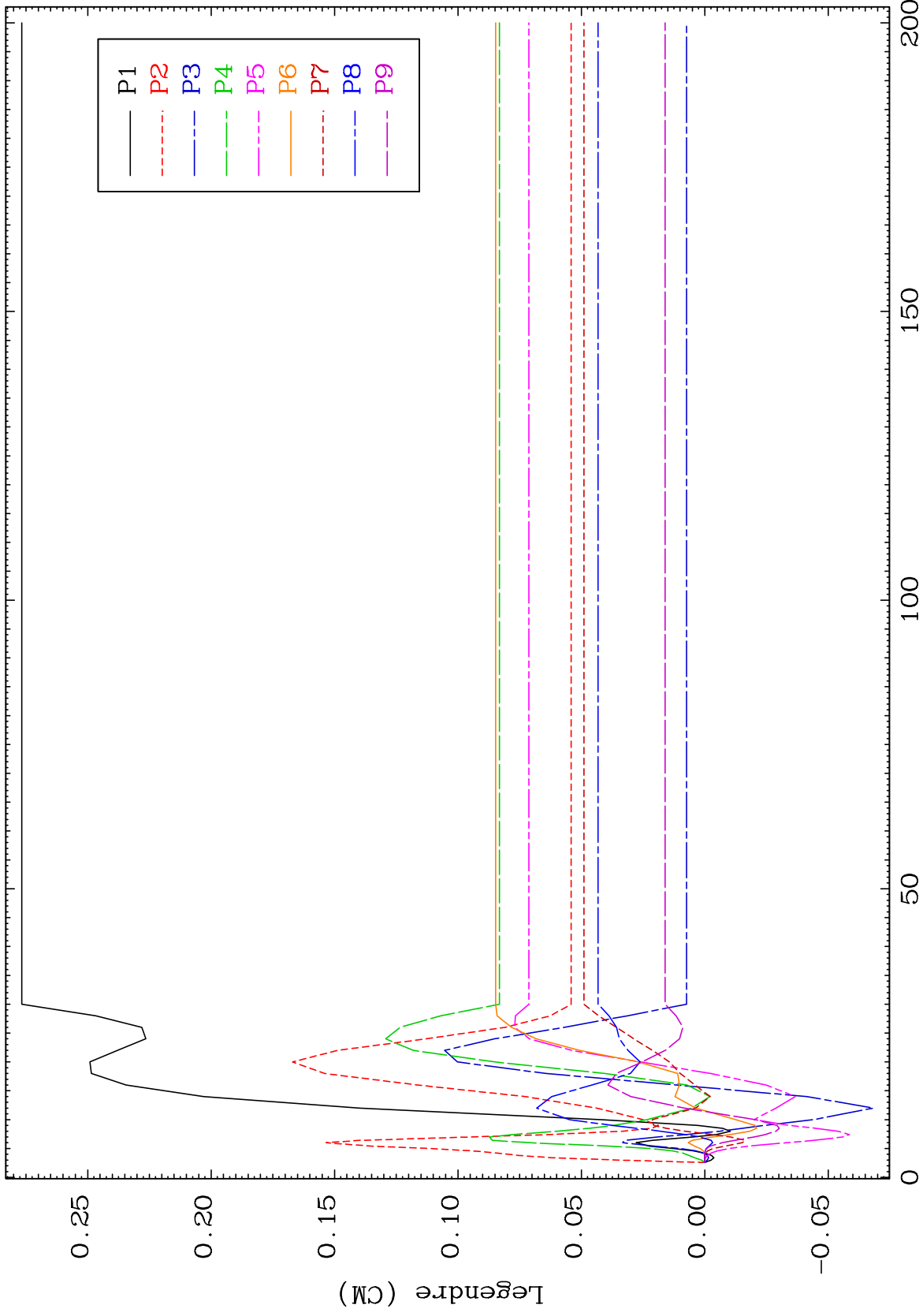




MAT 6207

2.560 MeV (n, n') Level
Legendre Coefficients

62-Sm-138



76

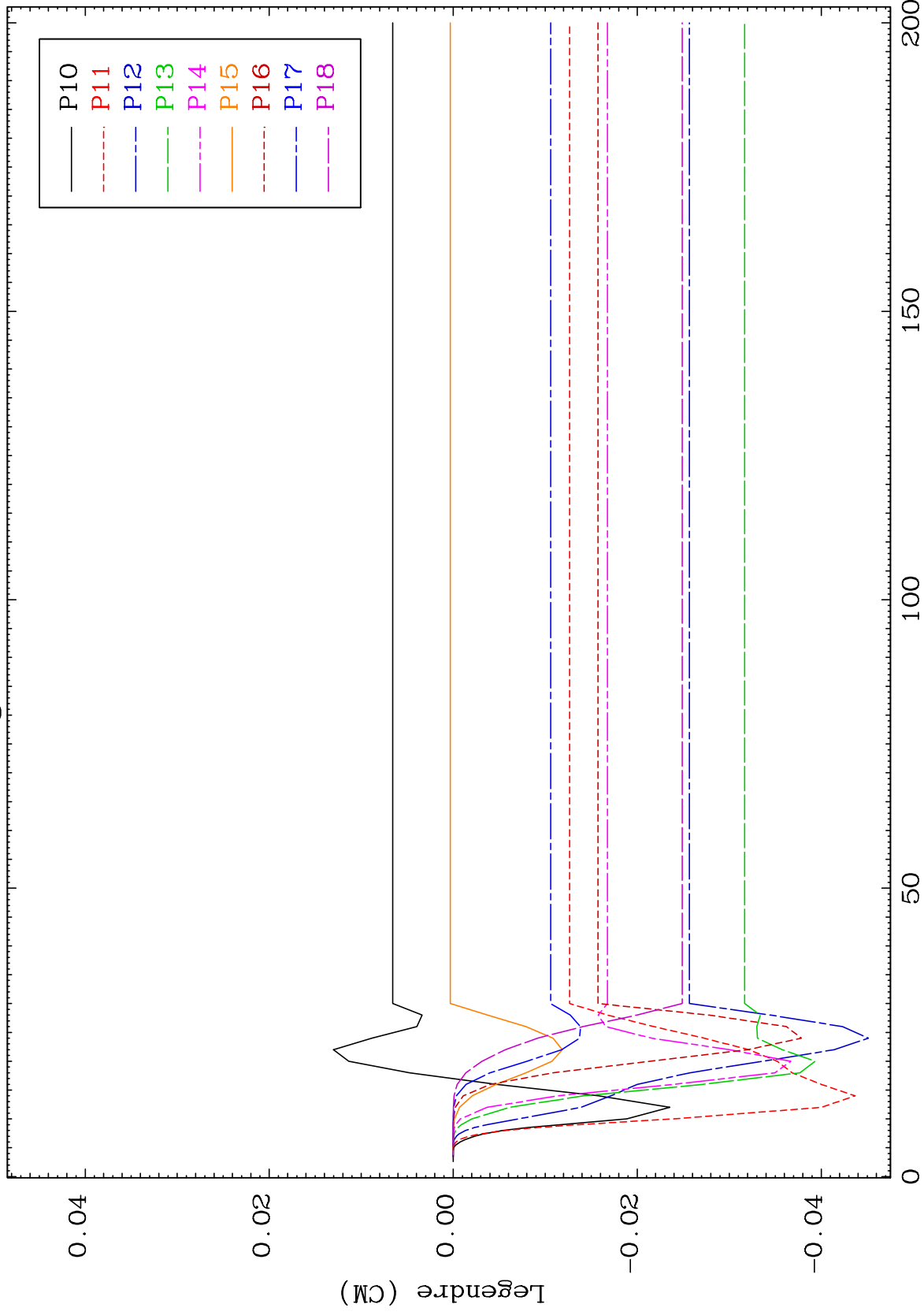
Incident Energy (MeV)

62-Sm-138

MAT 6207

2.560 MeV (n,n') Level
Legendre Coefficients

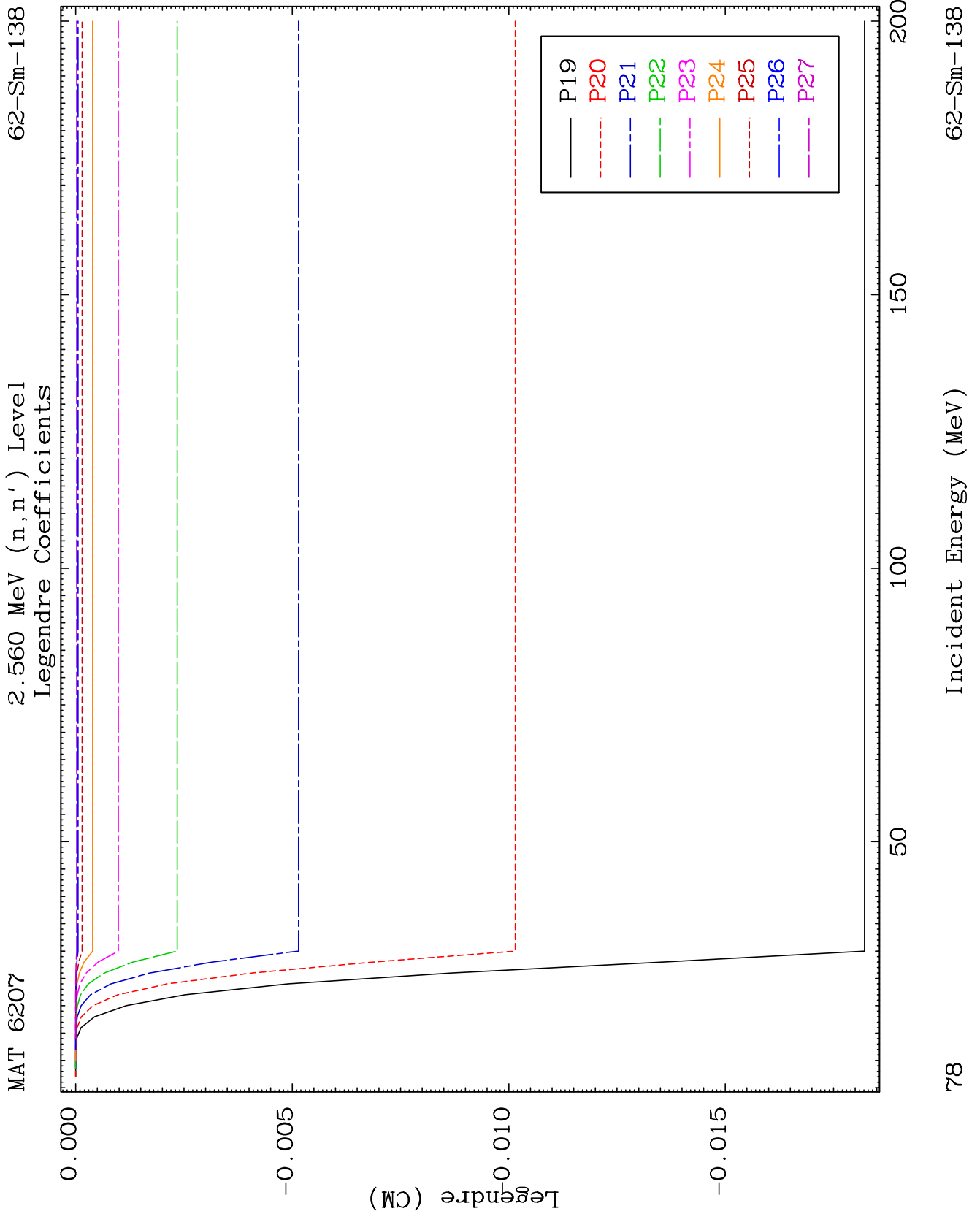
62-Sm-138

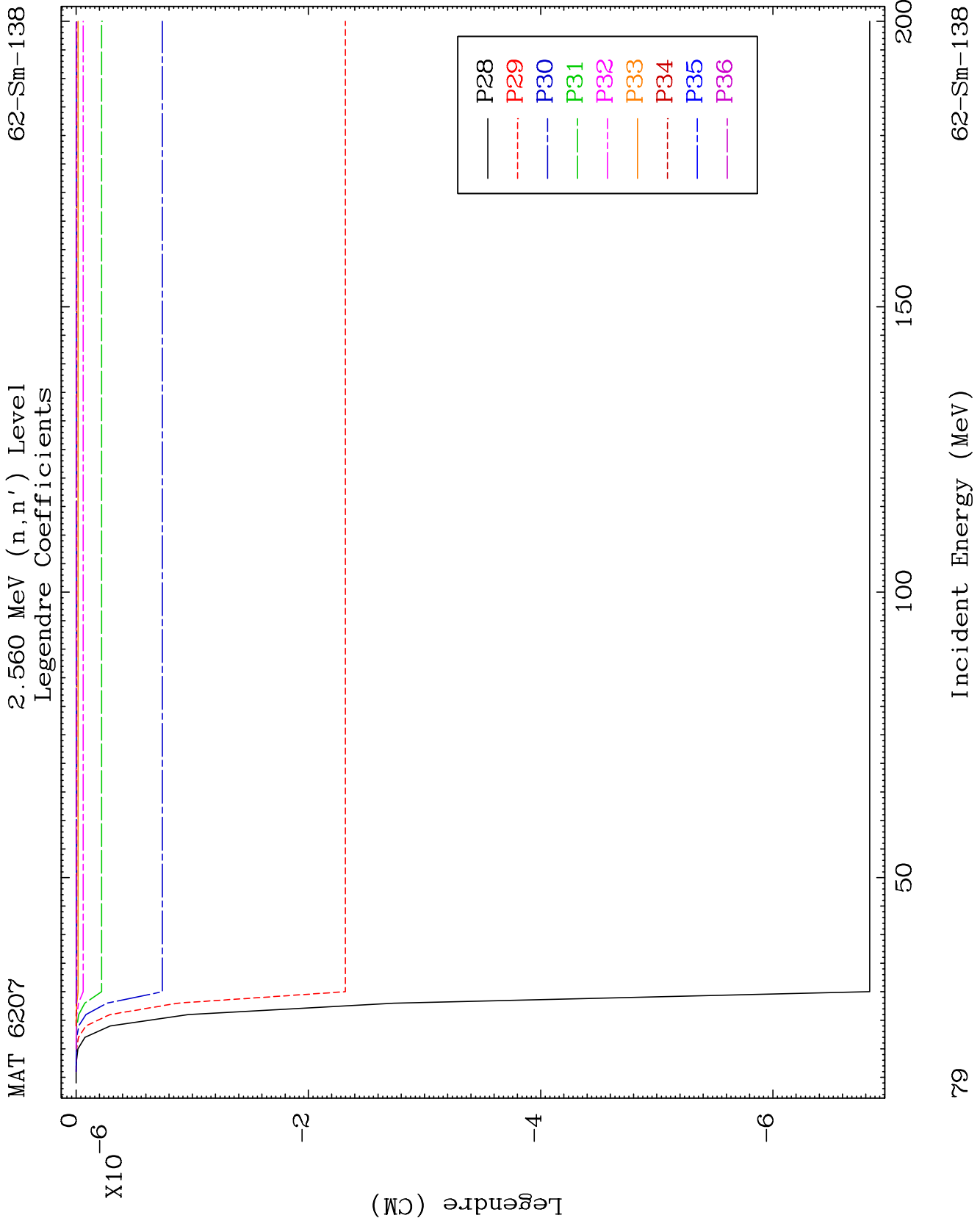


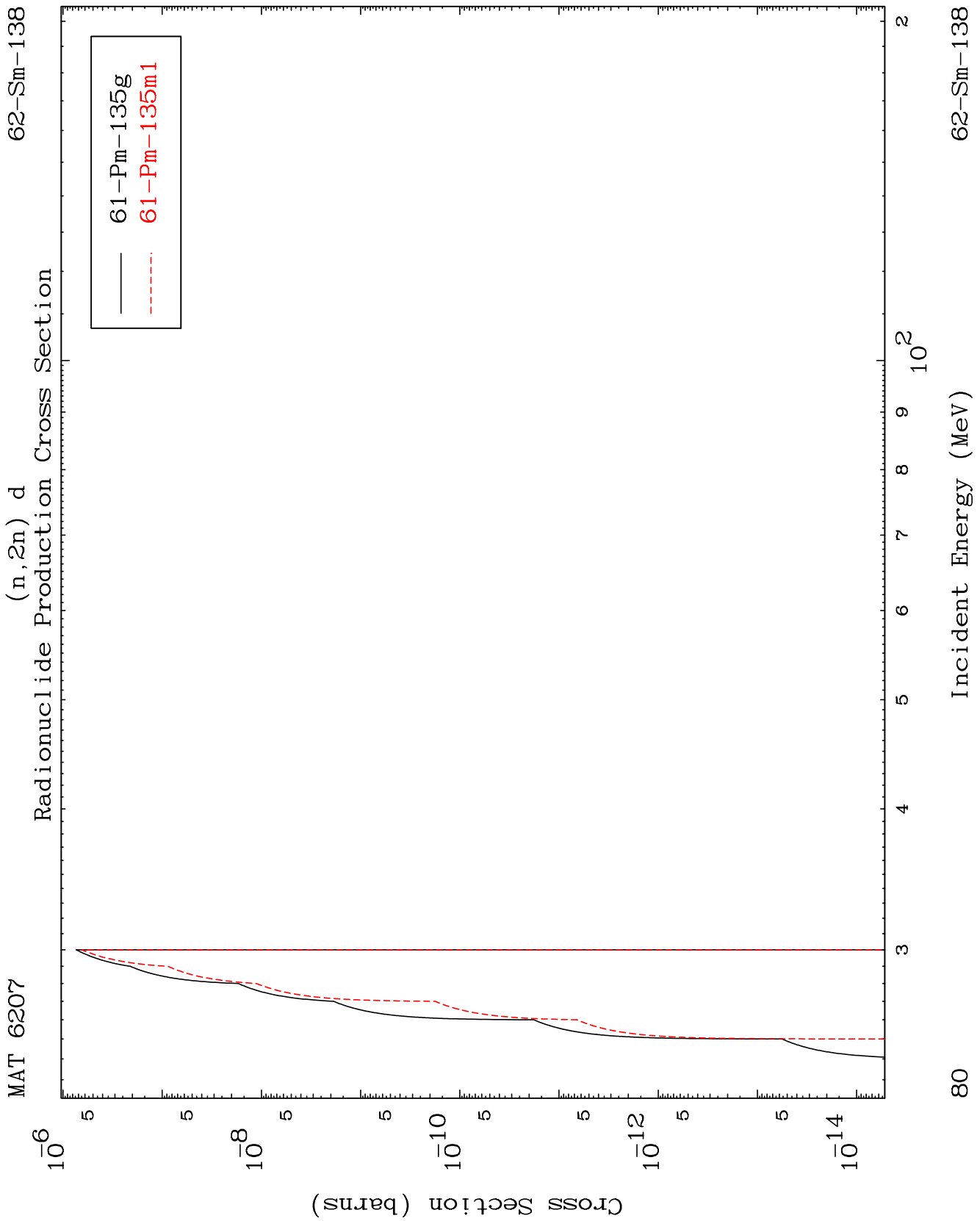
77

Incident Energy (MeV)

62-Sm-138





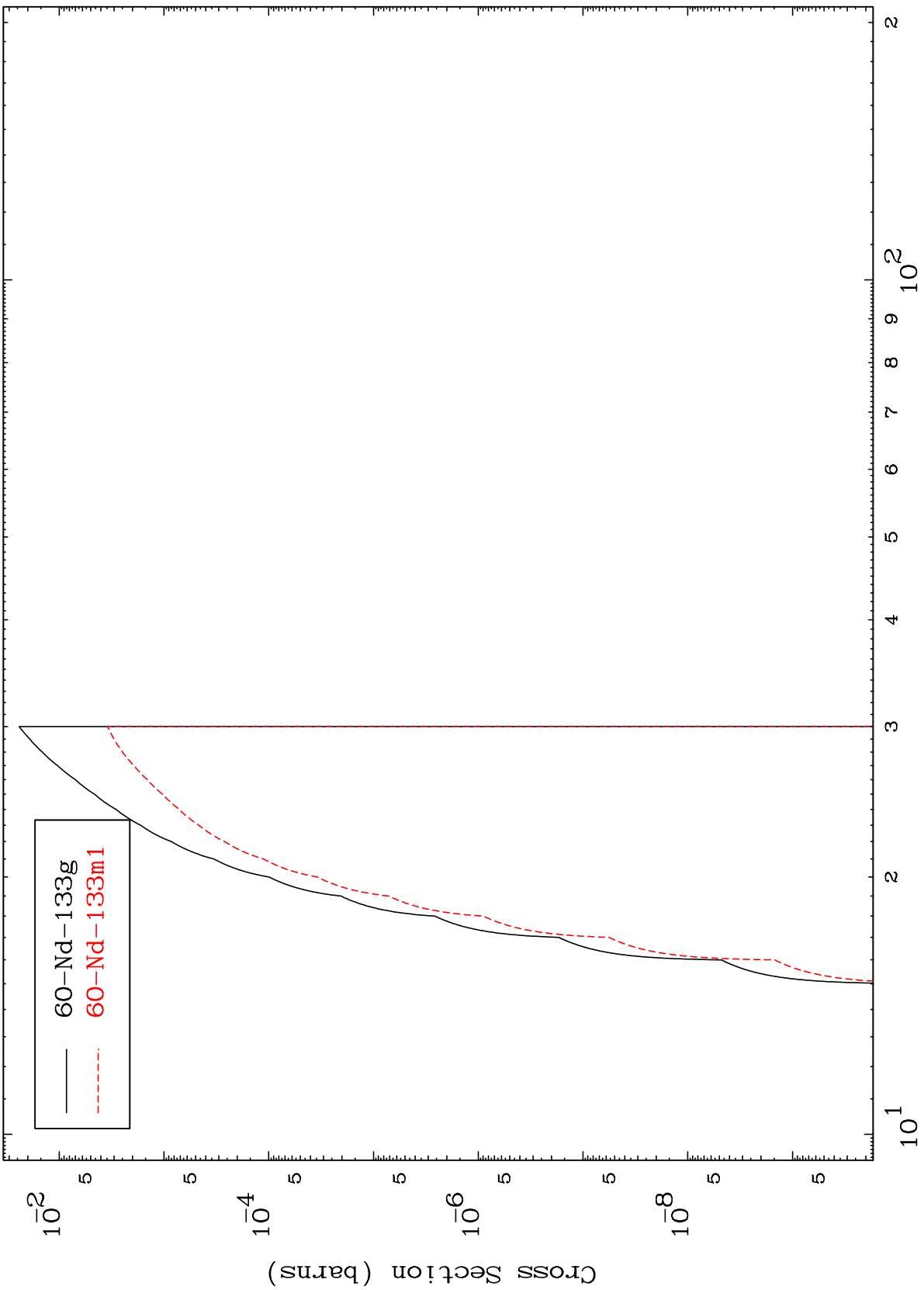


MAT 6207

(n,2n) α

62-Sm-138

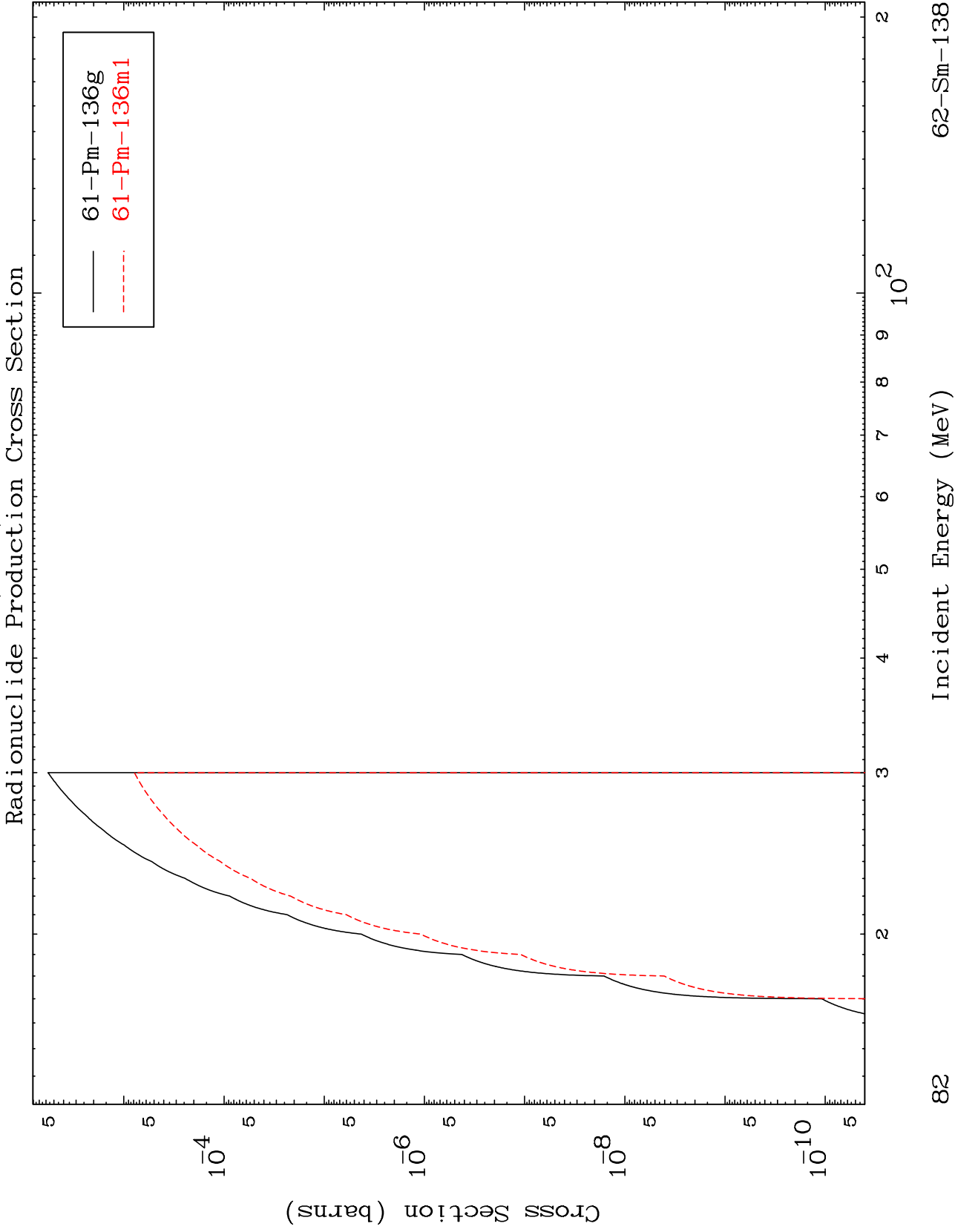
Radionuclide Production Cross Section



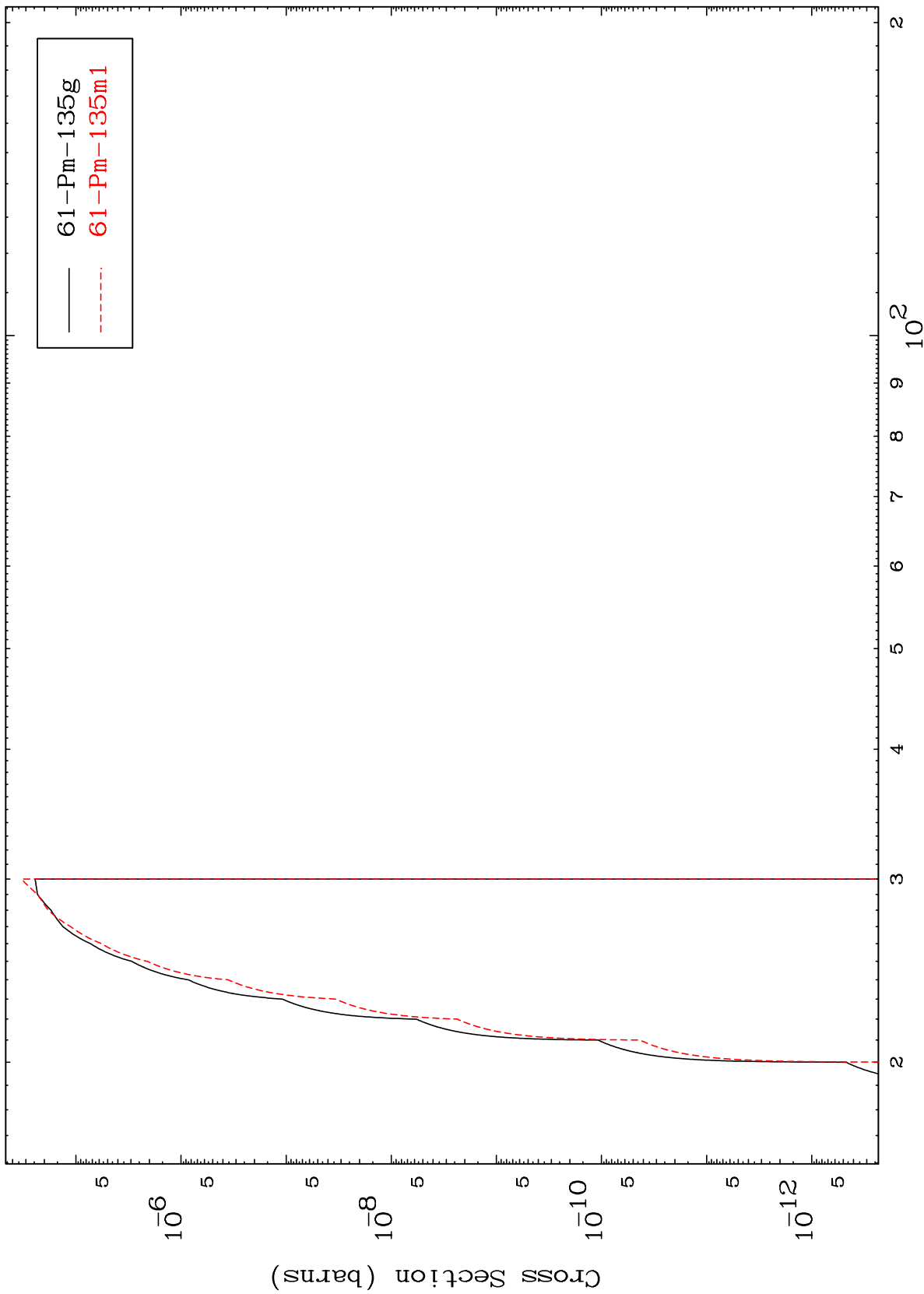
81

Incident Energy (MeV)

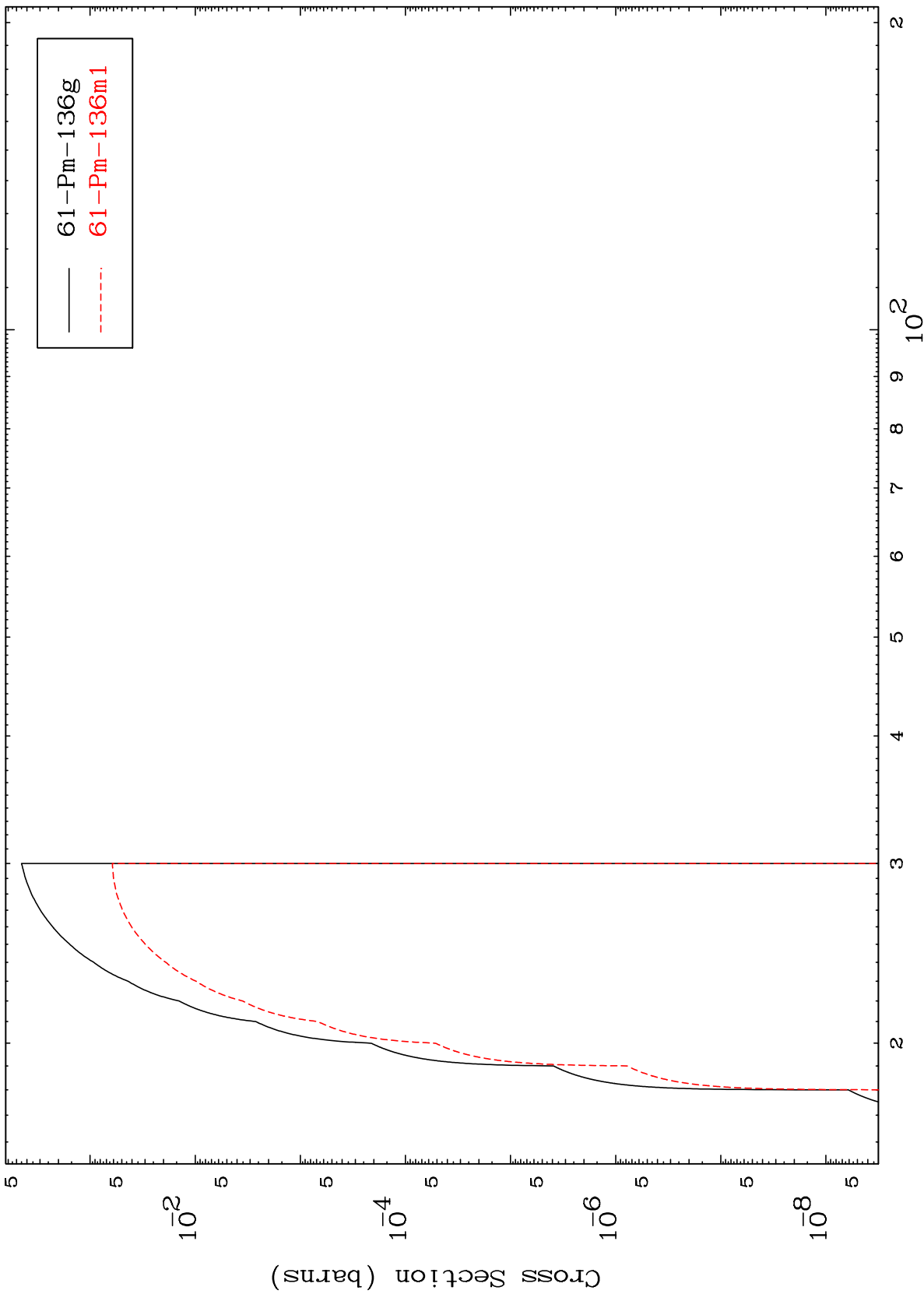
62-Sm-138



Radionuclide Production Cross Section



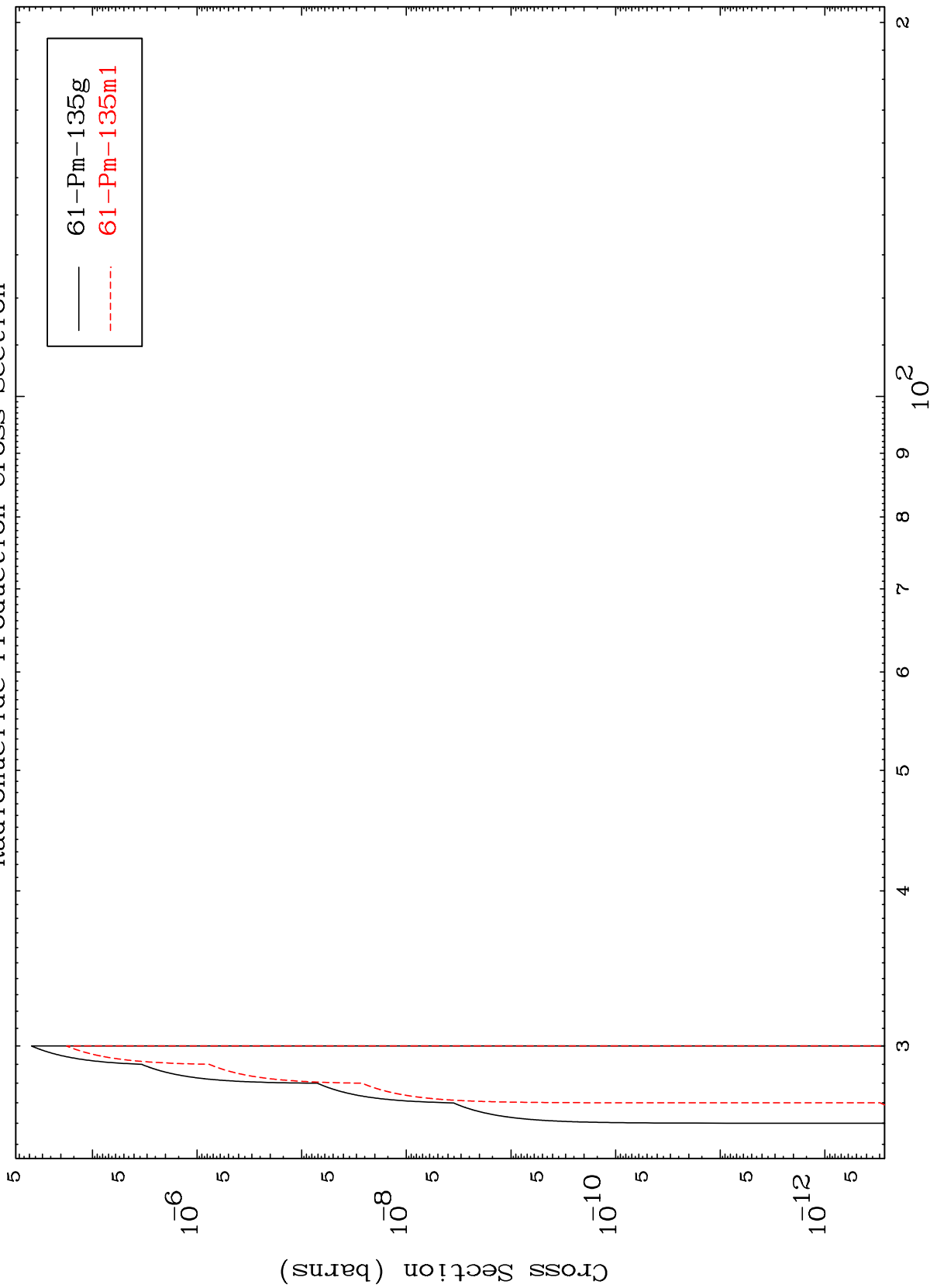
Radionuclide Production Cross Section



MAT 6207

62-Sm-138

(n,3n) p
Radionuclide Production Cross Section



85

62-Sm-138

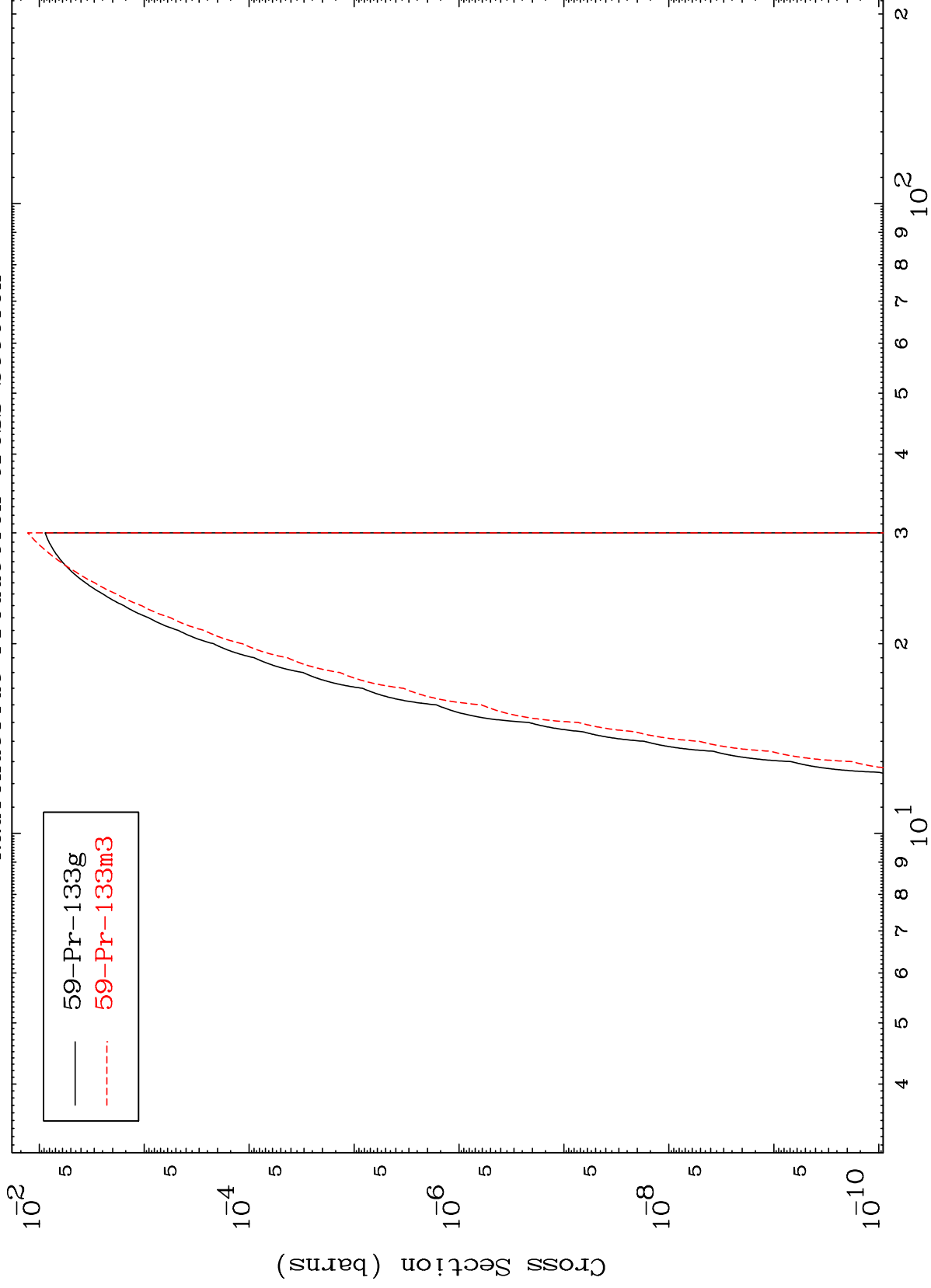
Incident Energy (MeV)

MAT 6207

(n,n') p α

62-Sm-138

Radionuclide Production Cross Section



59-Pr-133g
59-Pr-133m3

86

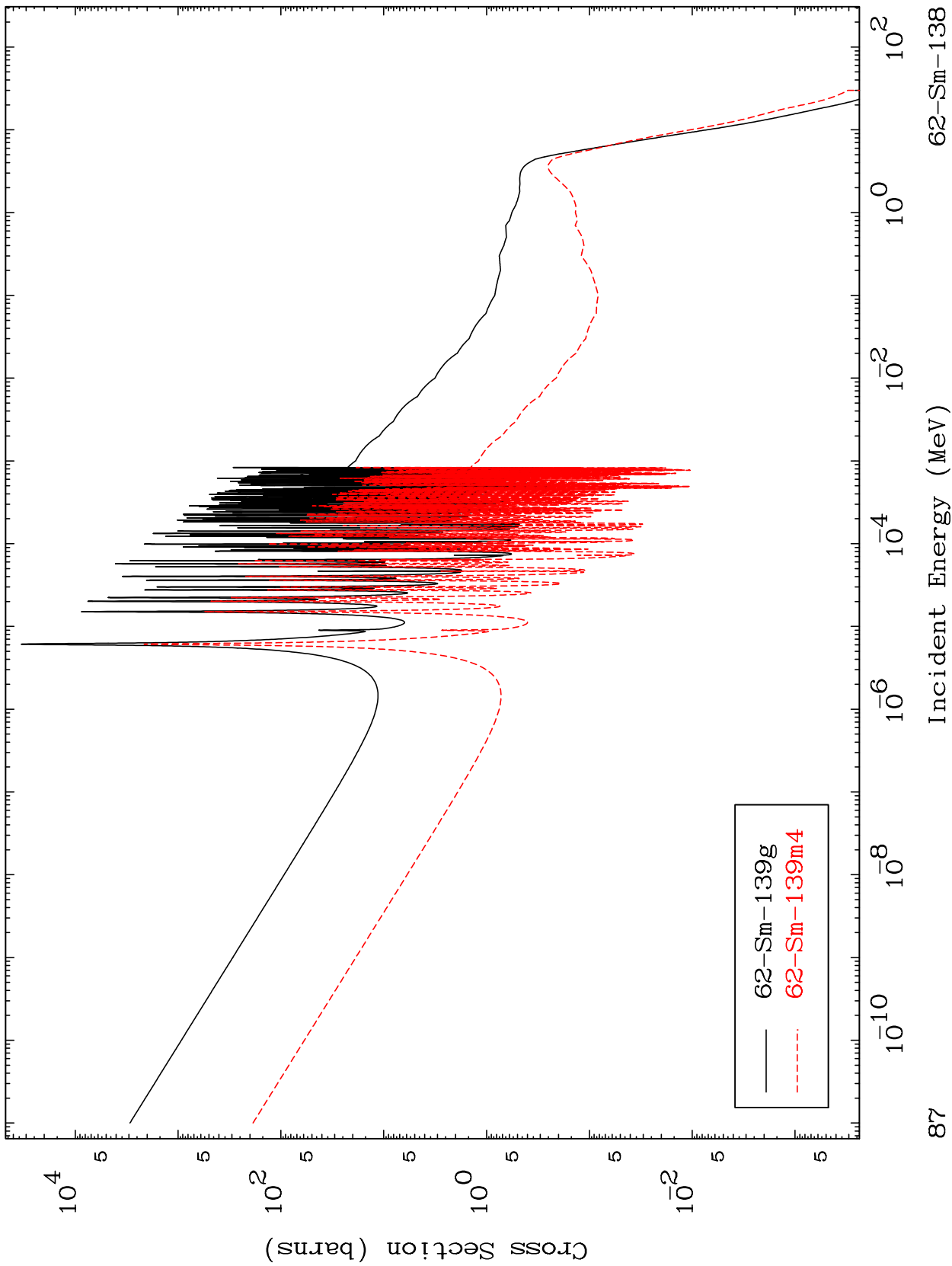
Incident Energy (MeV)

62-Sm-138

MAT 6207

62-Sm-138

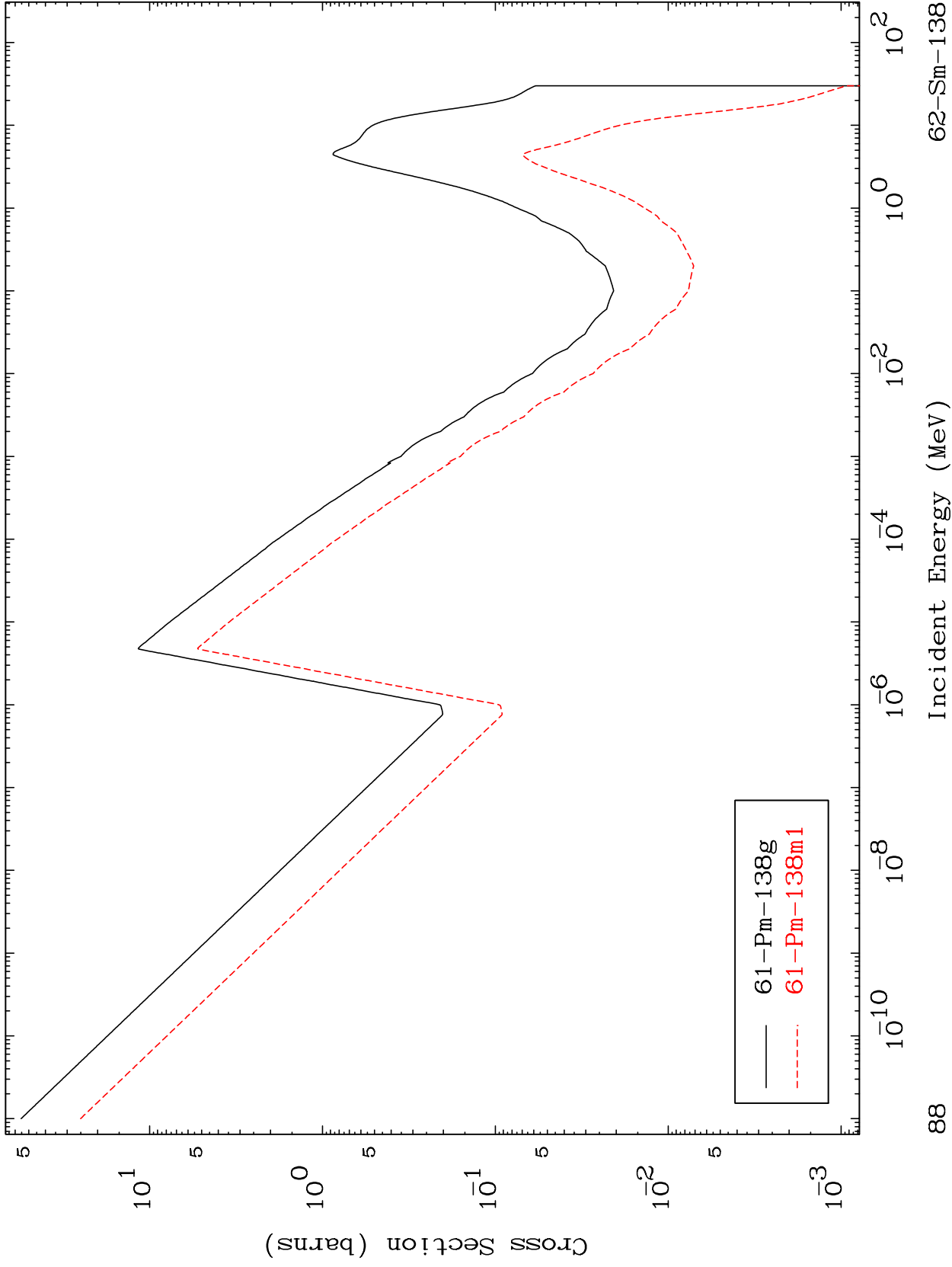
(n, γ)
Radionuclide Production Cross Section



MAT 6207

62-Sm-138

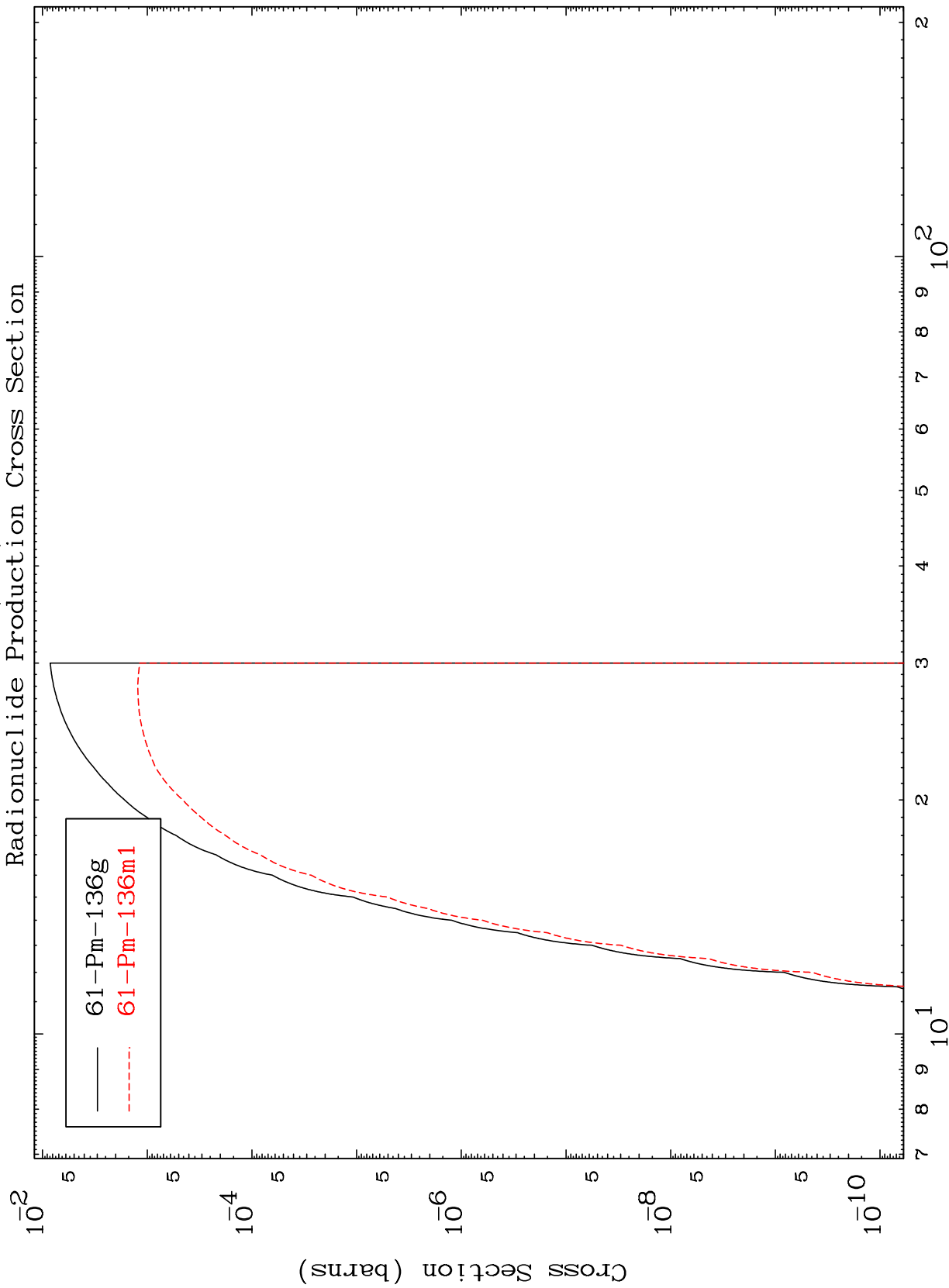
(n,p)
Radionuclide Production Cross Section



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62-Sm-138

Radionuclide Production Cross Section
(n, t)



89

Incident Energy (MeV)

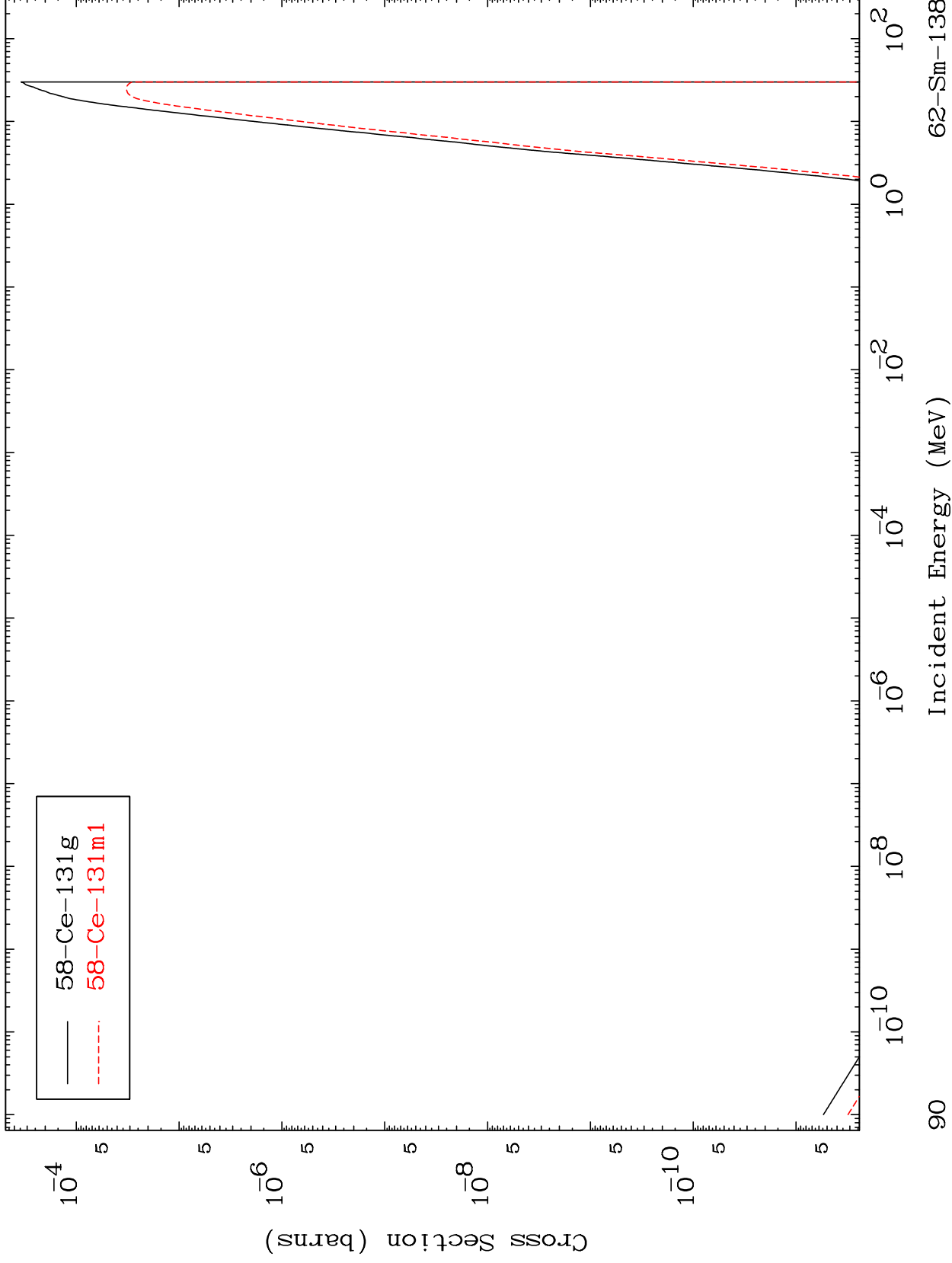
62-Sm-138

MAT 6207

(n,2 α)

62-Sm-138

Radionuclide Production Cross Section

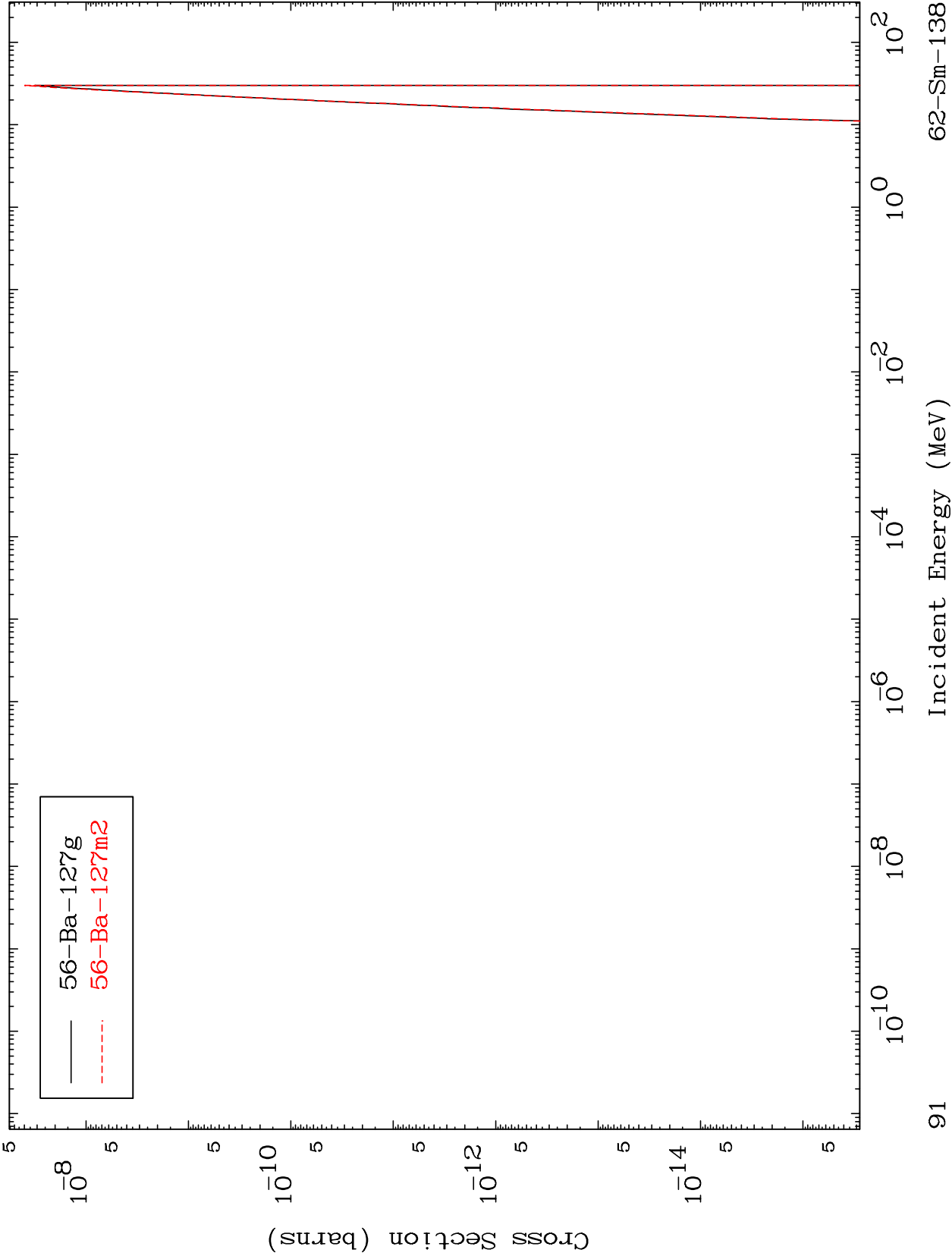


MAT 6207

(n, 3α)

62-Sm-138

Radionuclide Production Cross Section

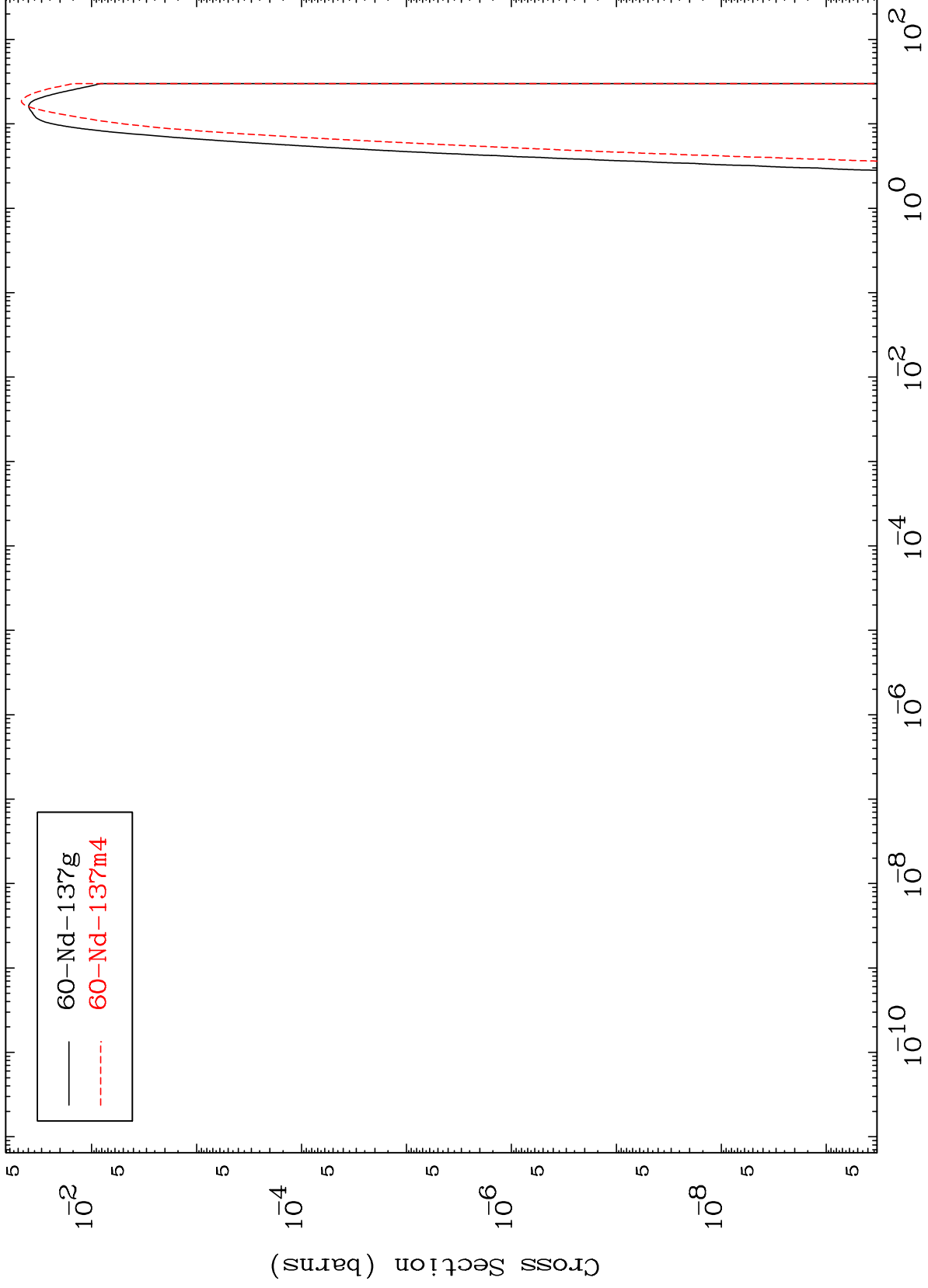


MAT 6207

(n,2p)

62-Sm-138

Radionuclide Production Cross Section

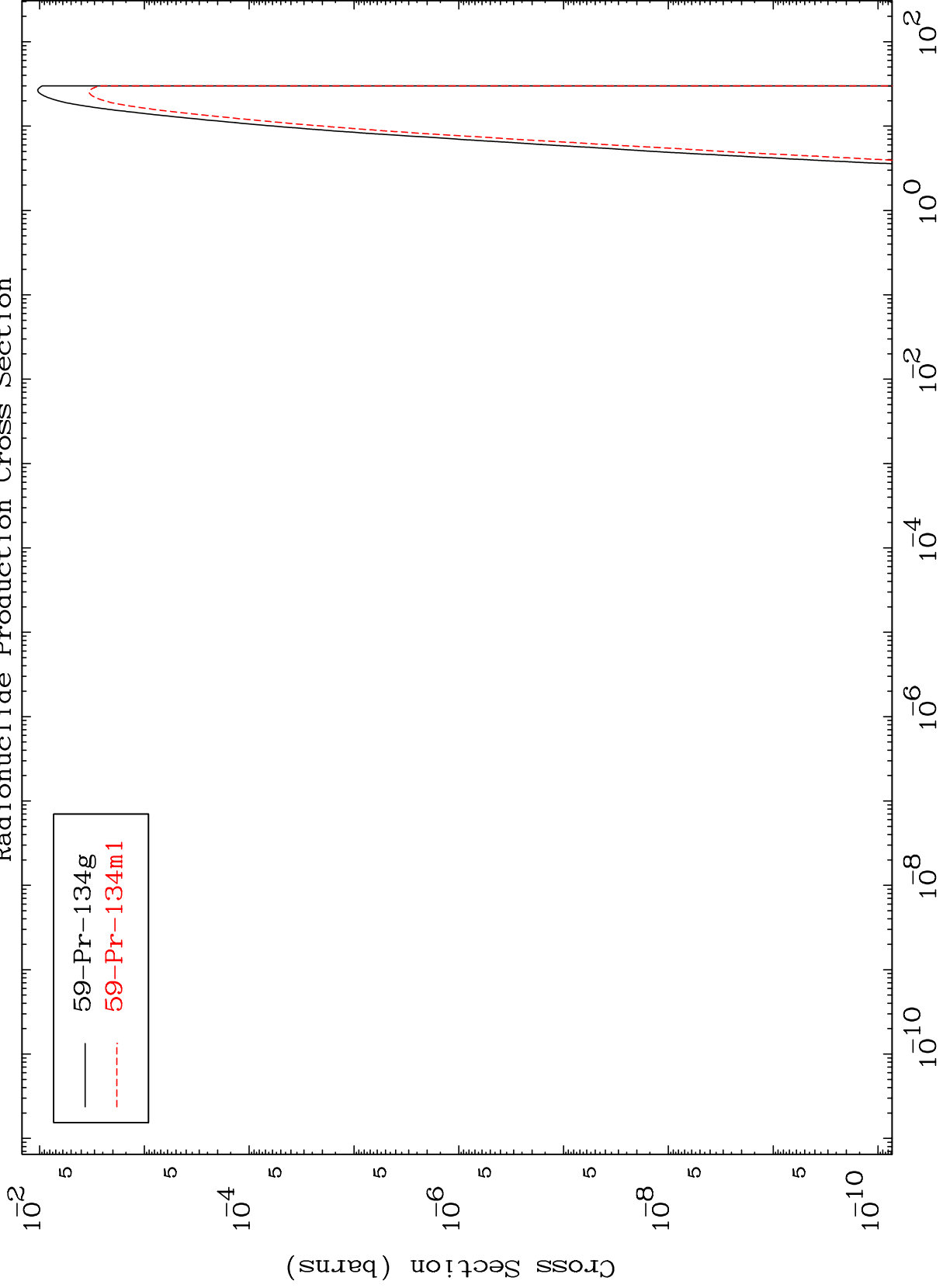


MAT 6207

(n,p) α

62-Sm-138

Radionuclide Production Cross Section



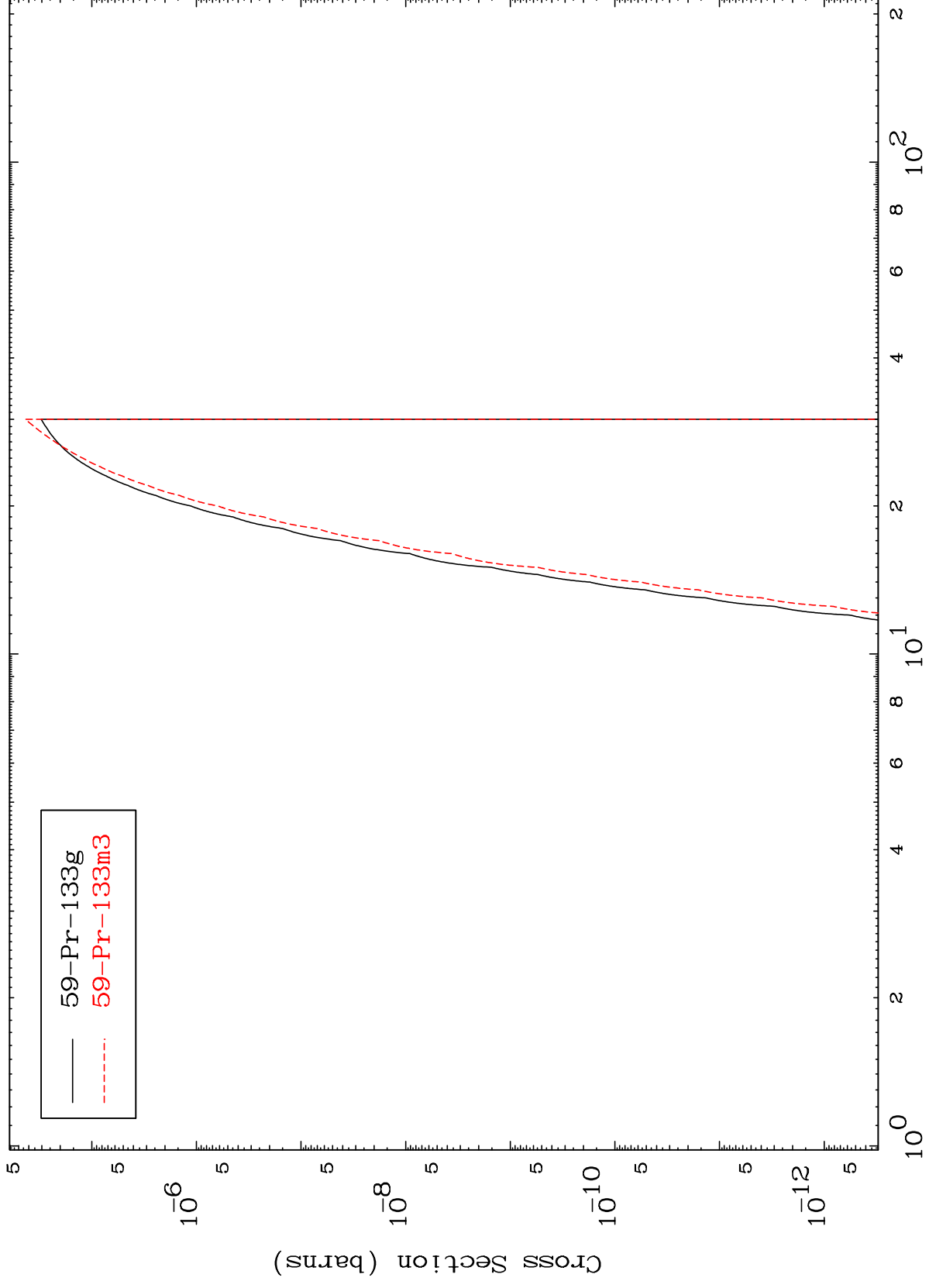
59-Pr-134g
59-Pr-134m1

MAT 6207

(n,d) α

62-Sm-138

Radionuclide Production Cross Section



94

Incident Energy (MeV)

62-Sm-138