

Program EVALPLOT
(Version 2018-1)

by

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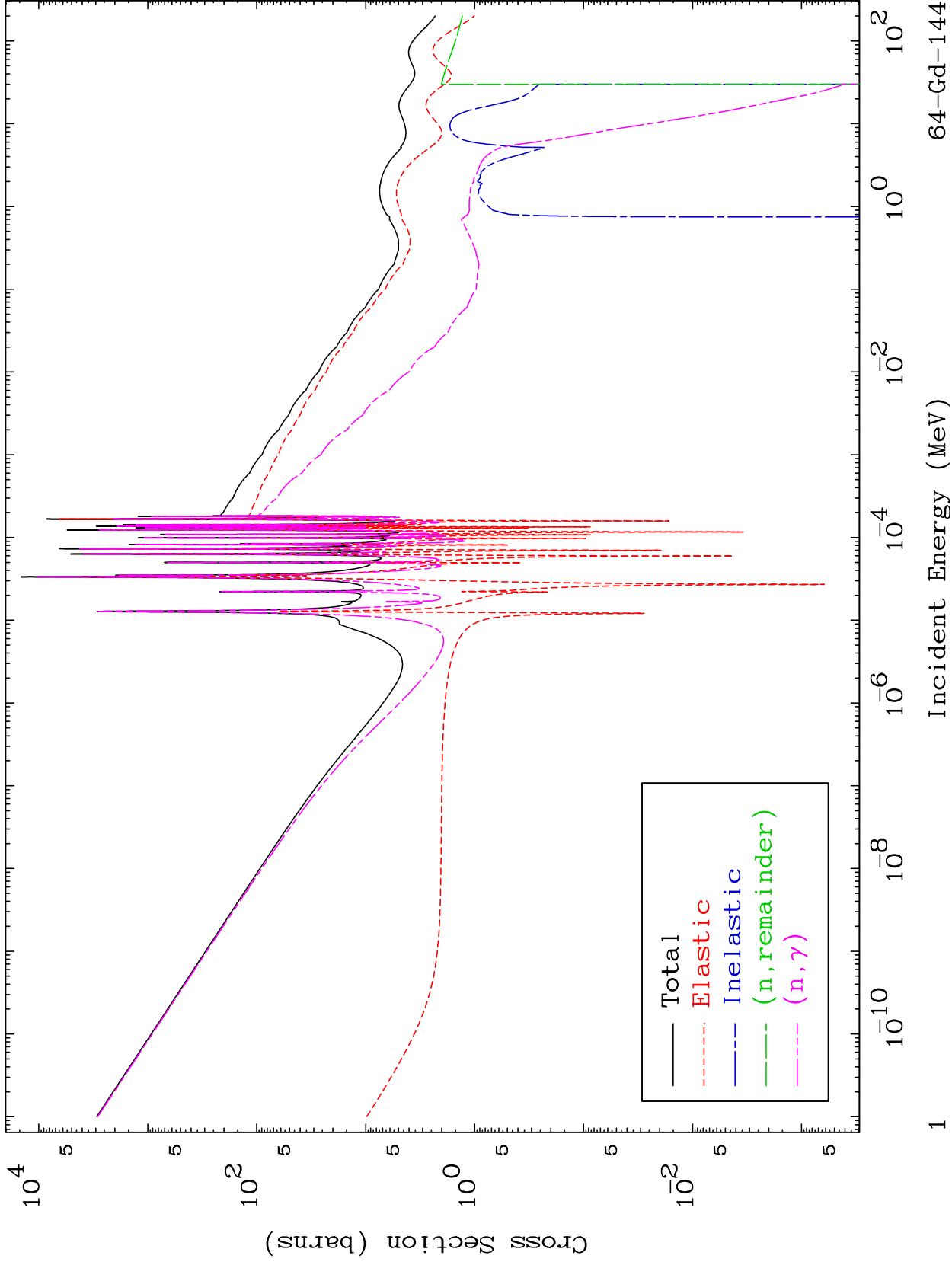
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6401

Major
293 Kelvin Cross Sections

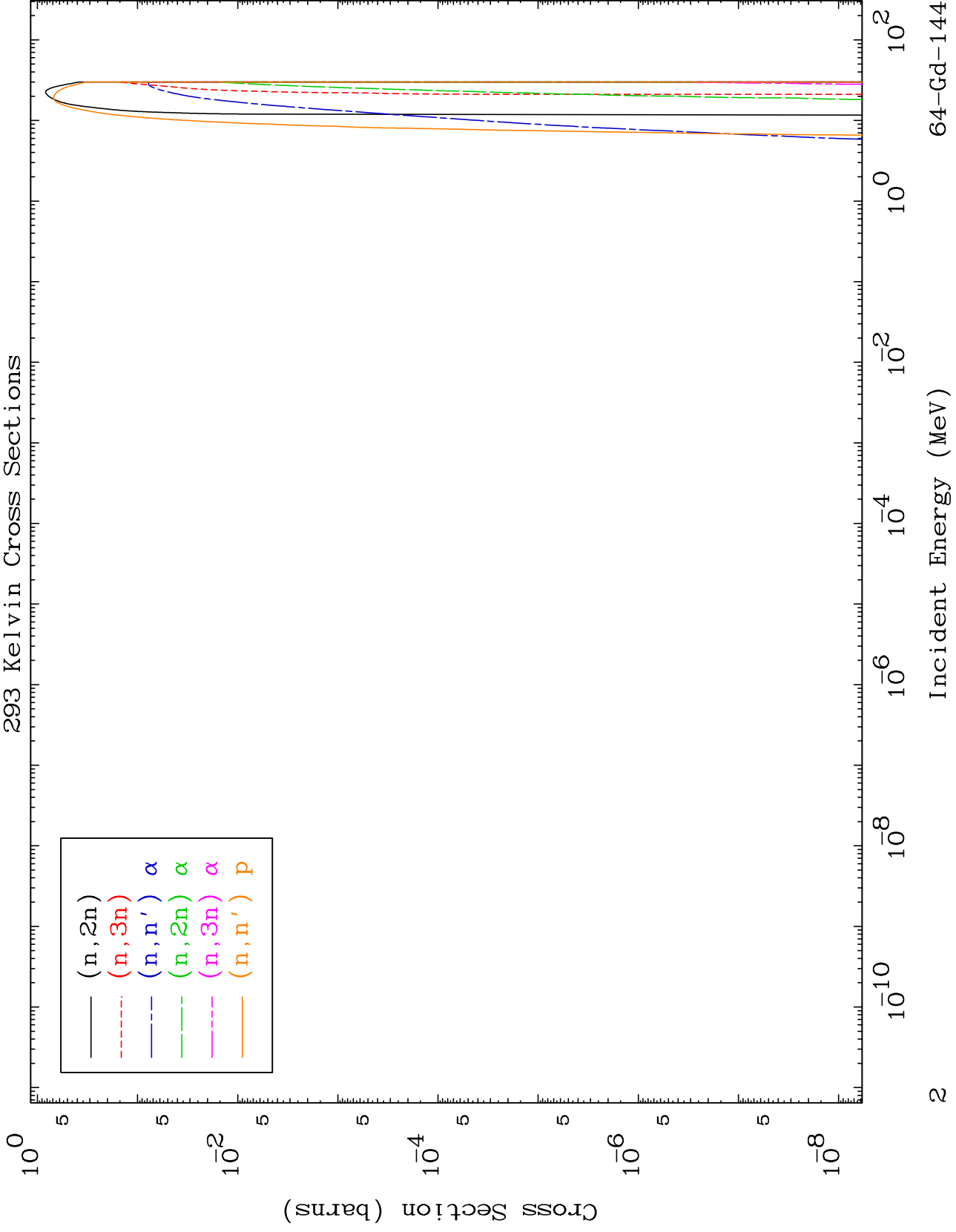
64-Gd-144



MAT 6401

Neutron Production
293 Kelvin Cross Sections

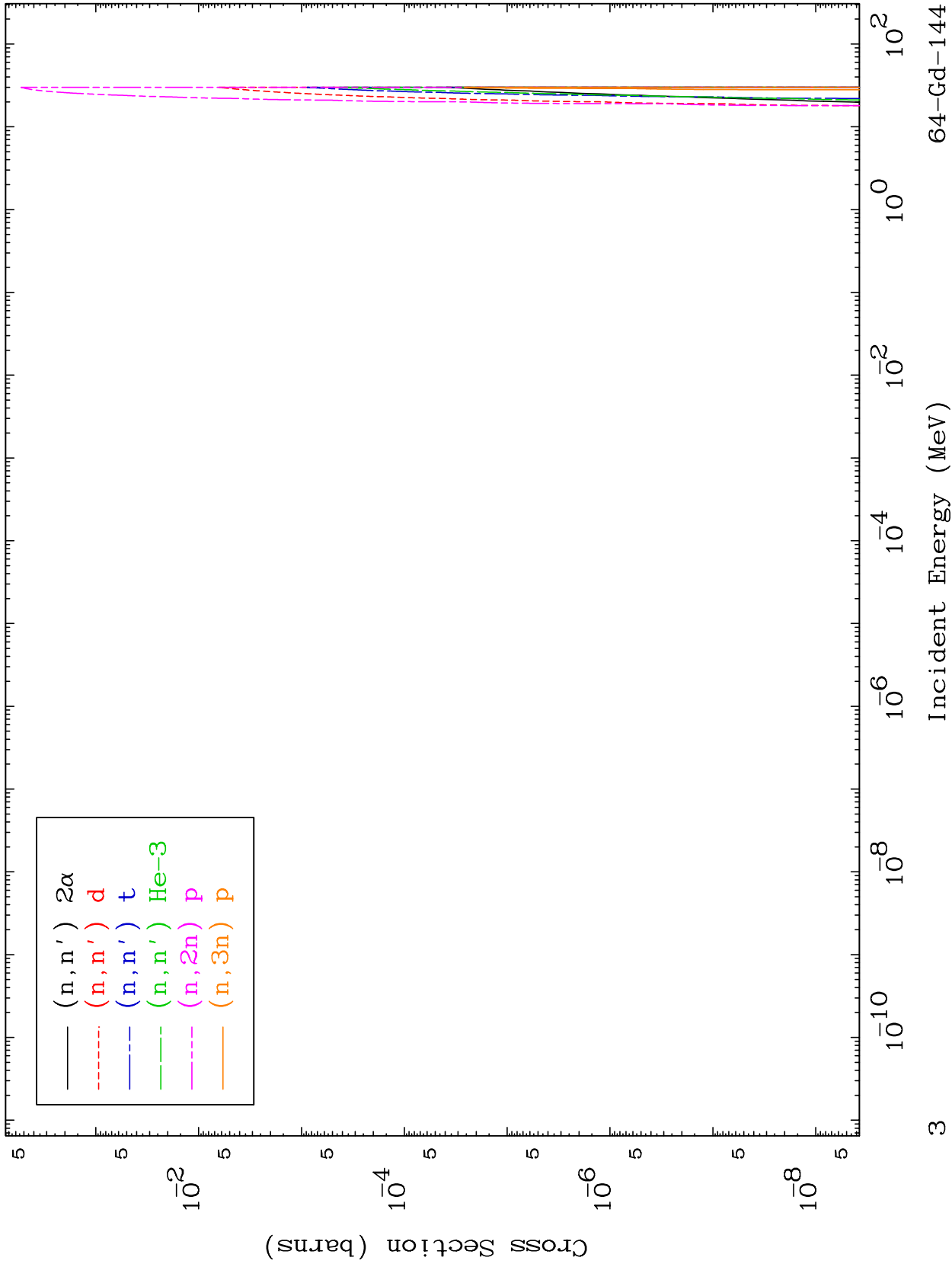
64-Gd-144



MAT 6401

Neutron Production
293 Kelvin Cross Sections

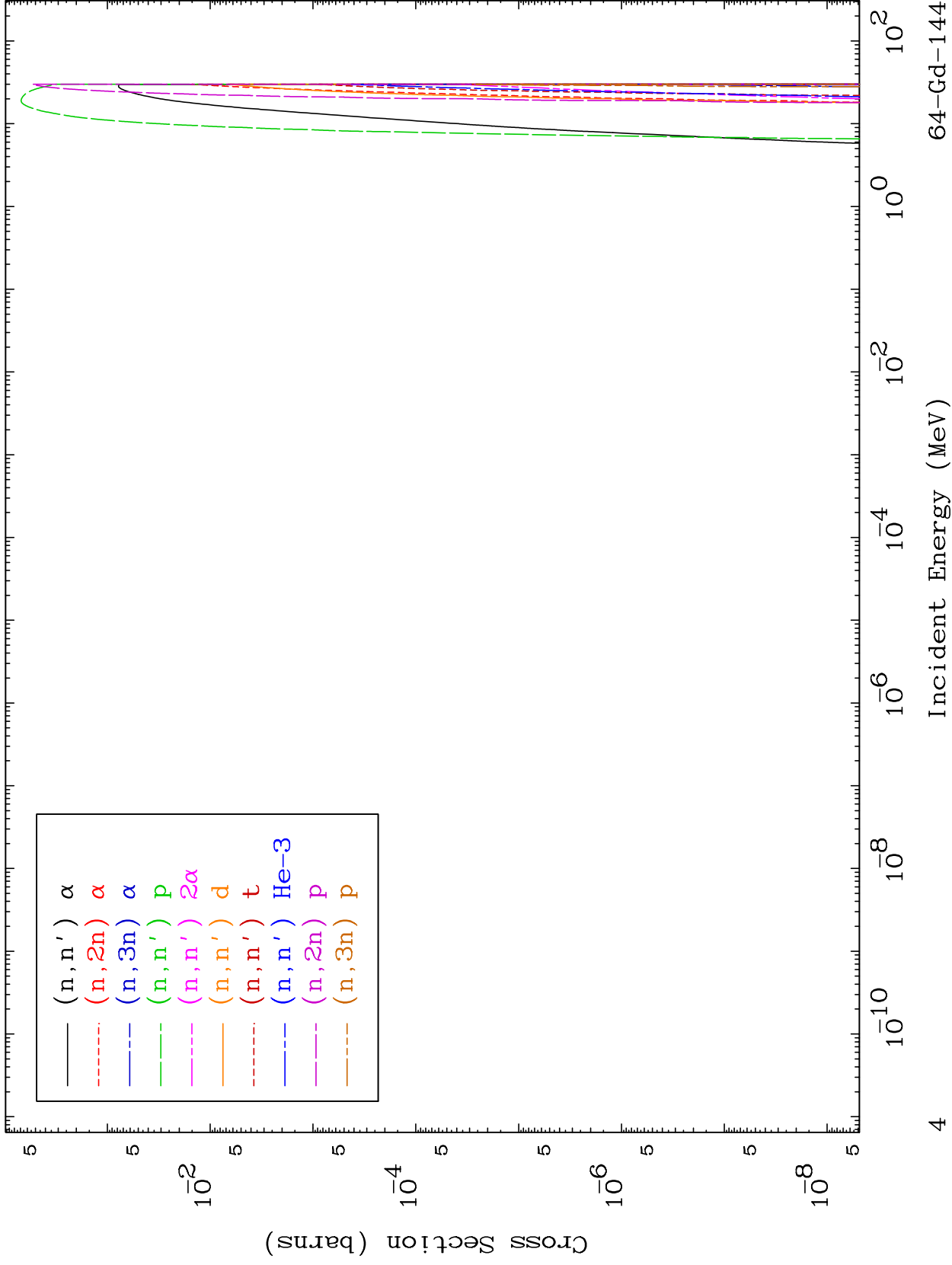
64-Gd-144



MAT 6401

Charged Particle
293 Kelvin Cross Sections

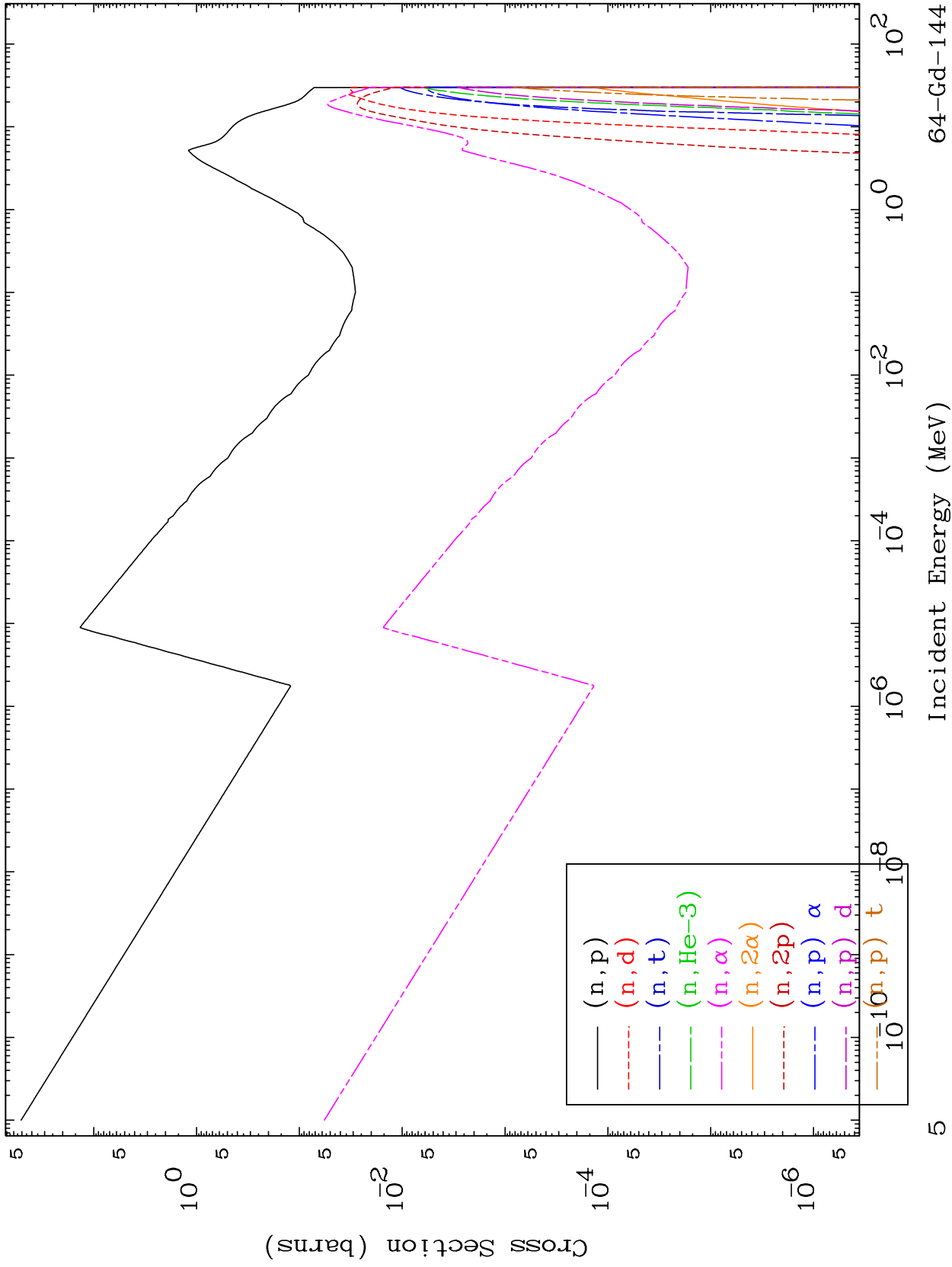
64-Gd-144



MAT 6401

Charged Particle
293 Kelvin Cross Sections

64-Gd-144



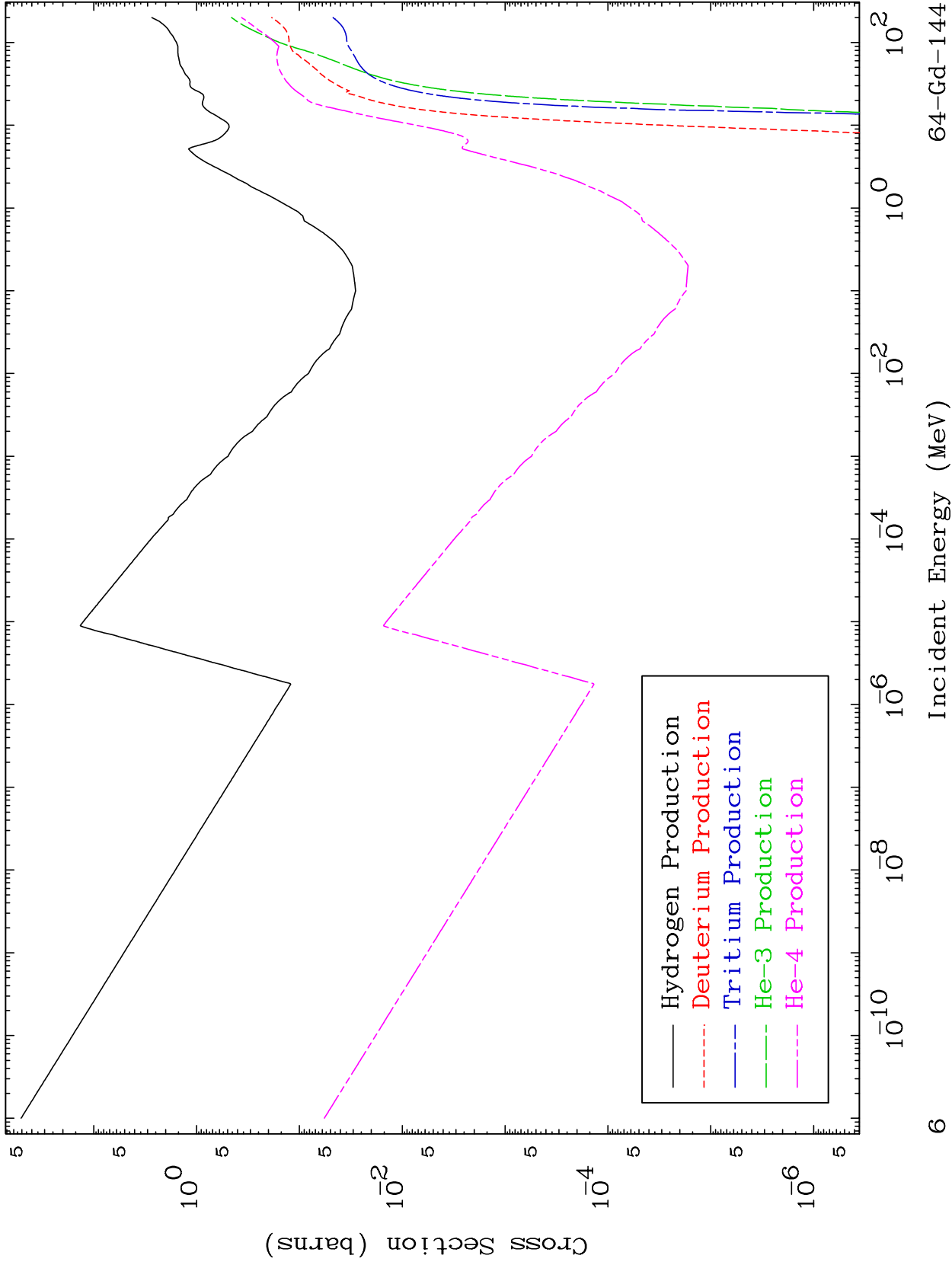
5

64-Gd-144

MAT 6401

Particle Production
293 Kelvin Cross Sections

64-Gd-144

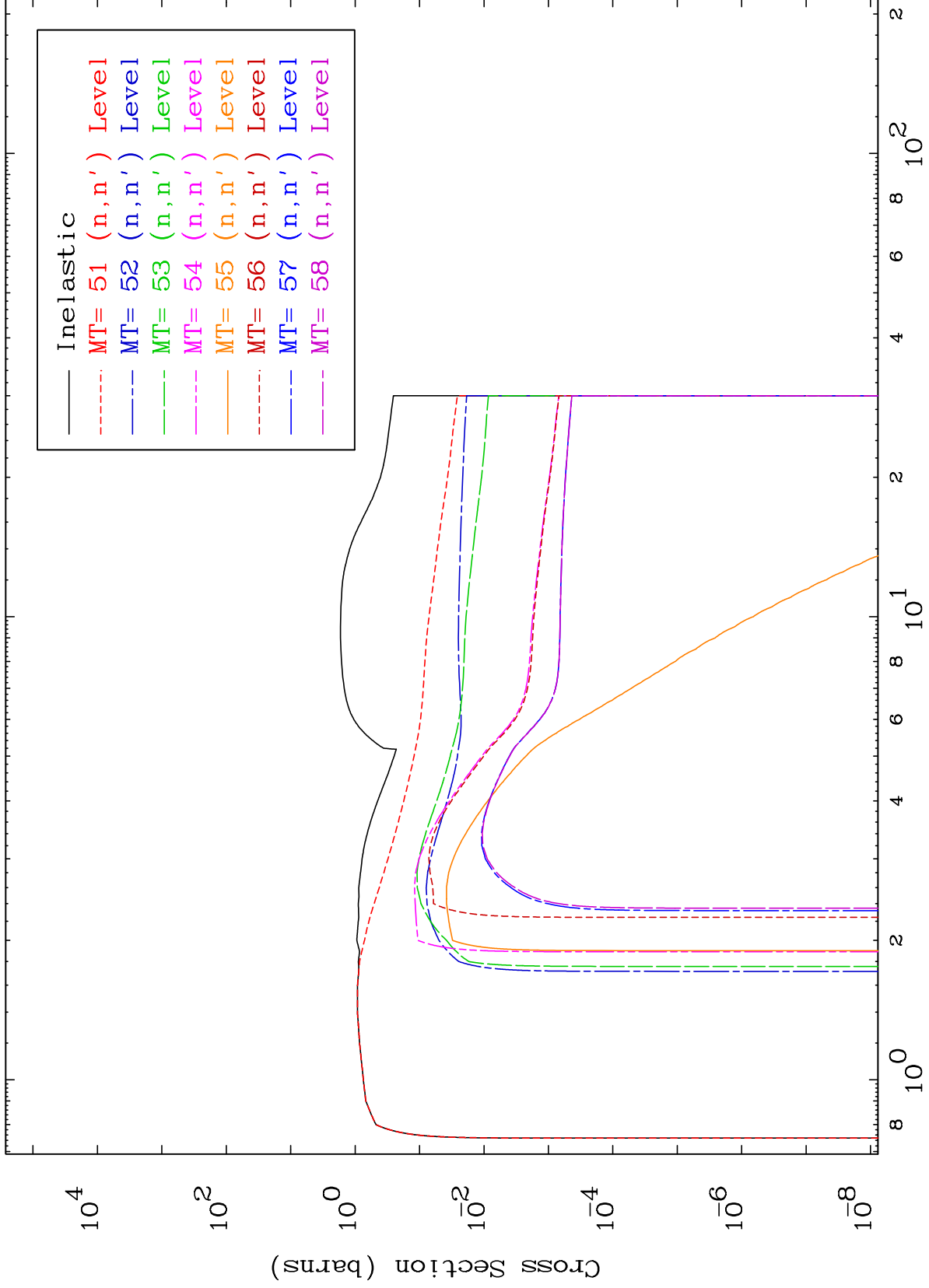


MAT 6401

(n,n') Level

64-Gd-144

293 Kelvin Cross Sections

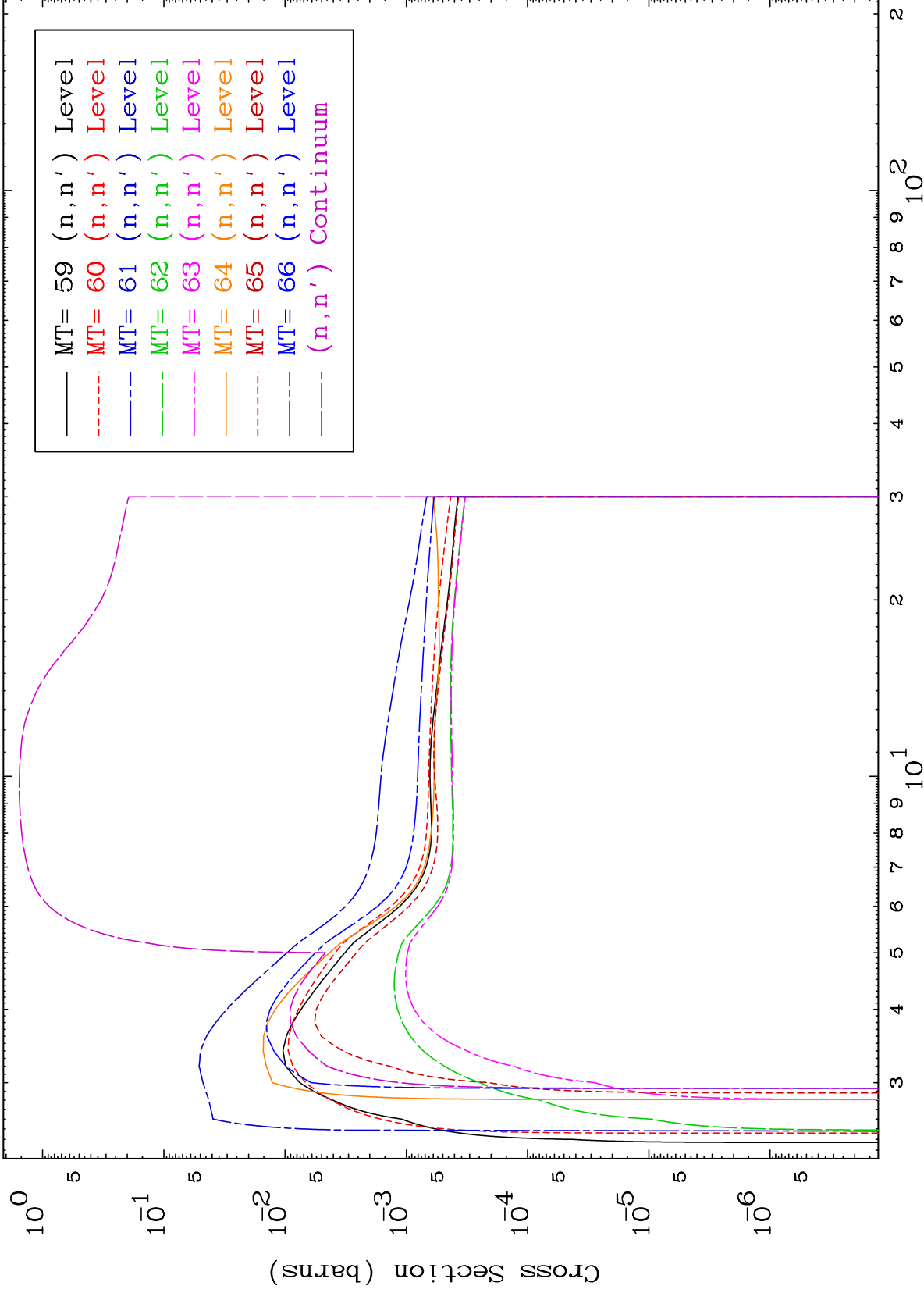


7

Incident Energy (MeV)

64-Gd-144

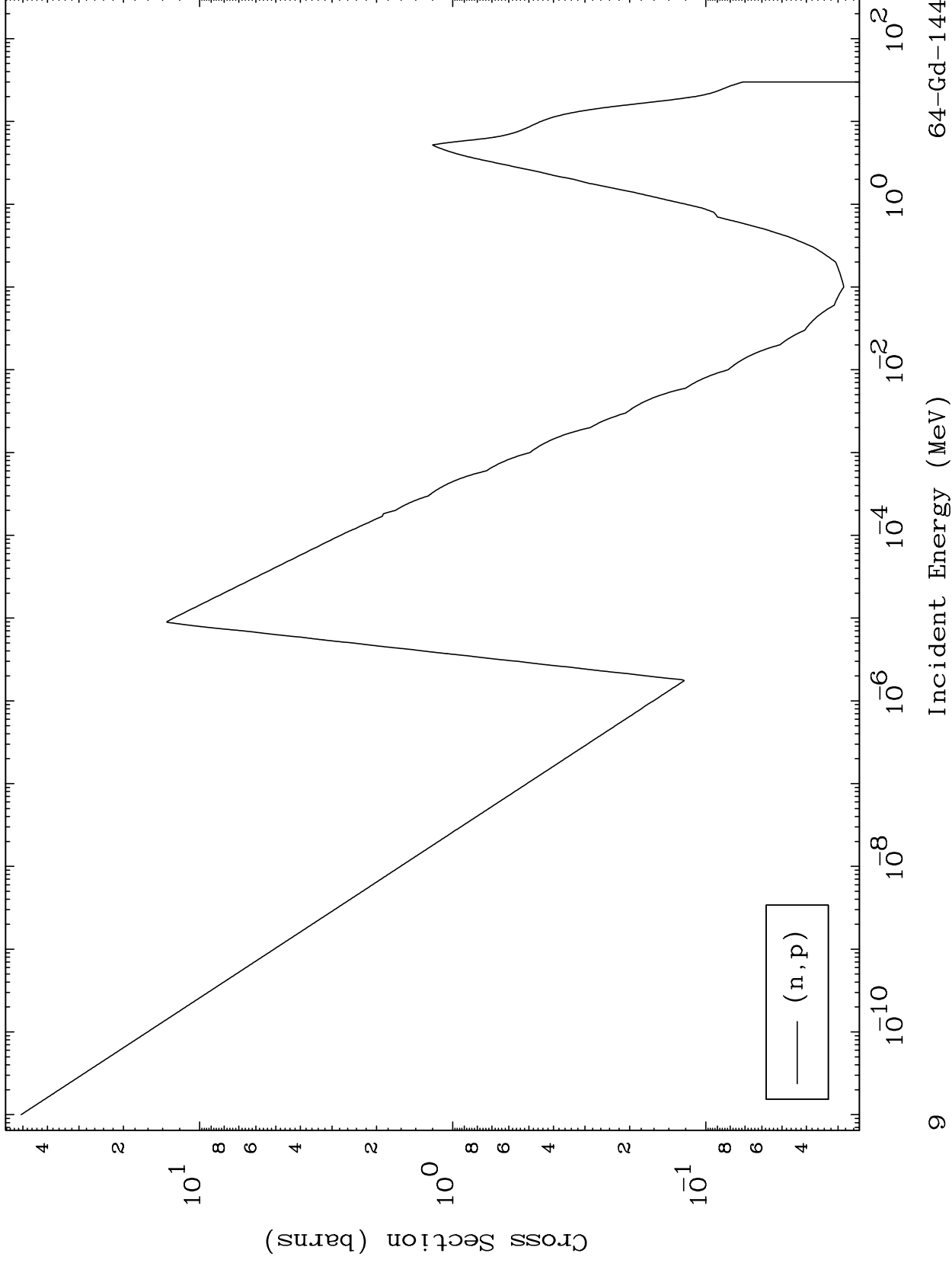
293 Kelvin Cross Sections



MAT 6401

(n,p) Levels
293 Kelvin Cross Sections

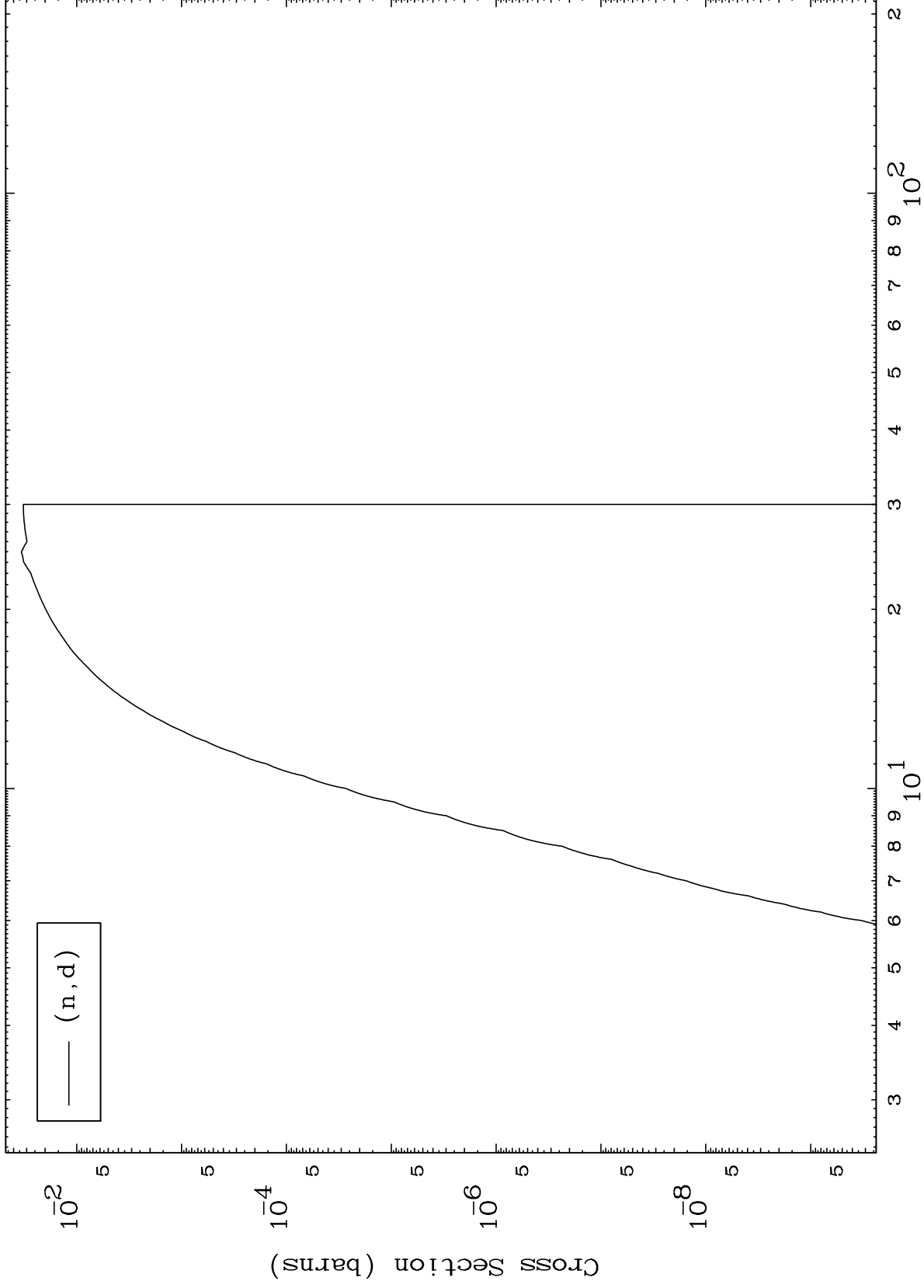
64-Gd-144



MAT 6401

(n,d) Levels
293 Kelvin Cross Sections

64-Gd-144



10

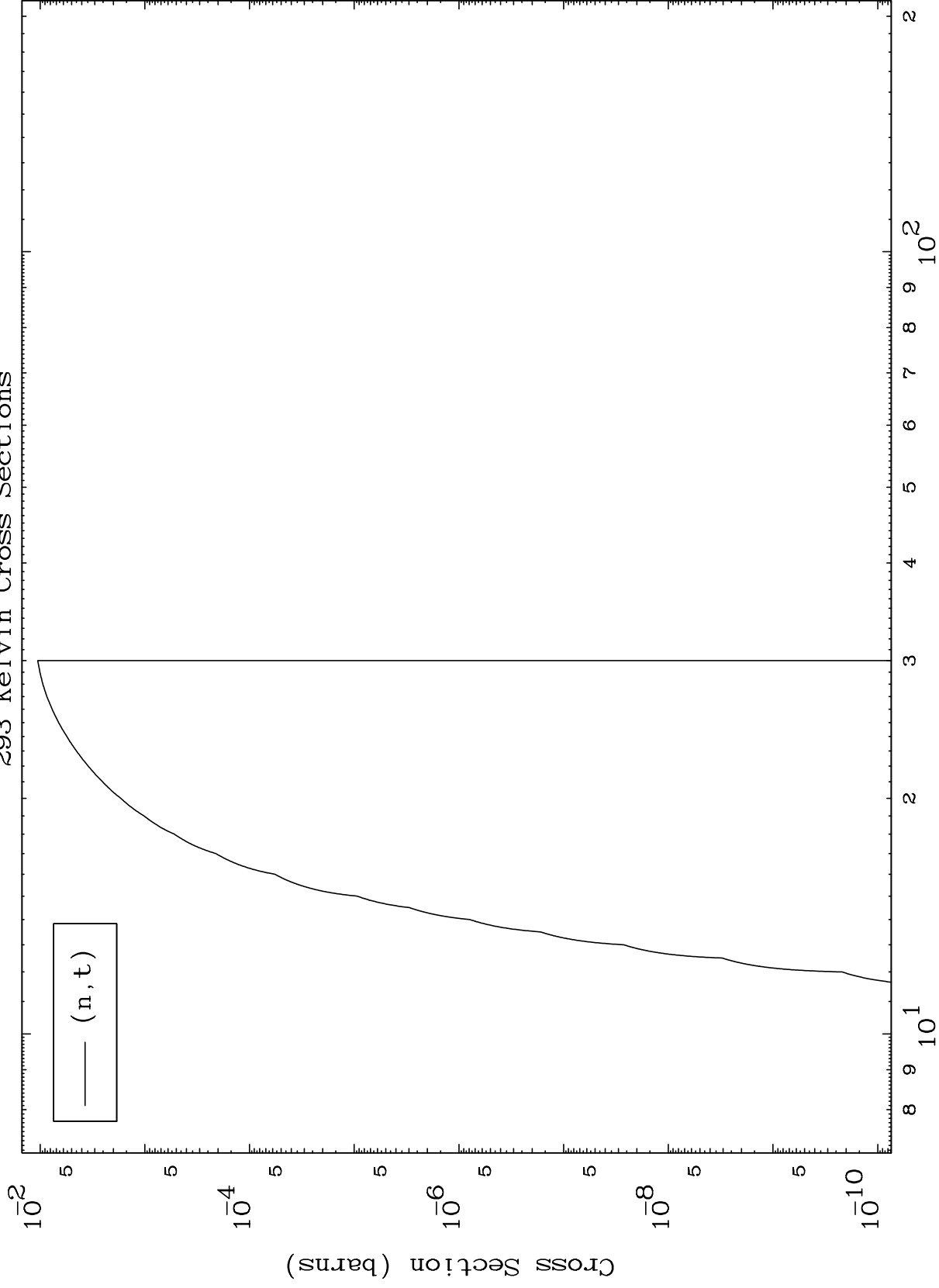
Incident Energy (MeV)

64-Gd-144

MAT 6401

(n,t) Levels
293 Kelvin Cross Sections

64-Gd-144



11

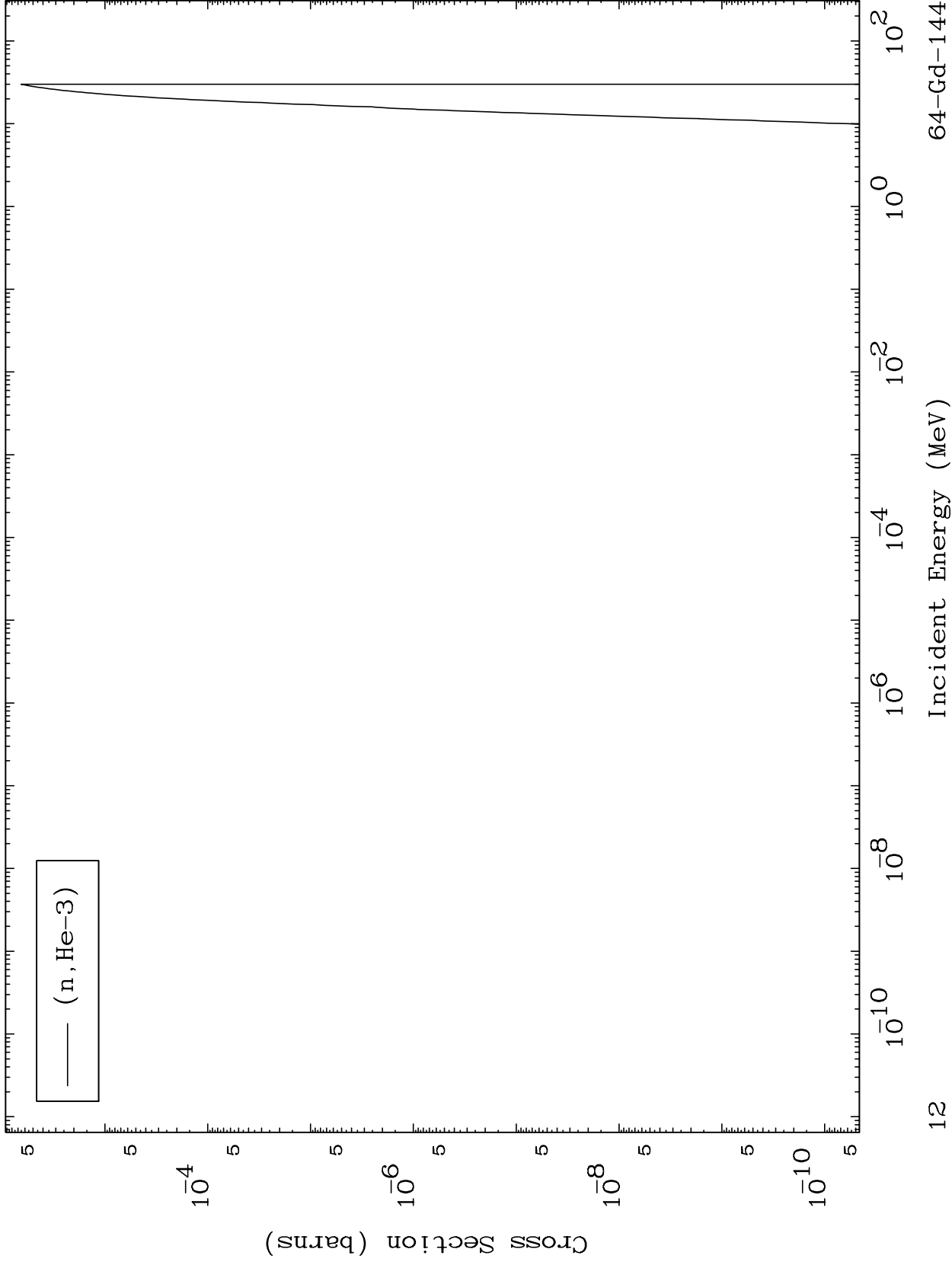
Incident Energy (MeV)

64-Gd-144

MAT 6401

(n,He3) Levels
293 Kelvin Cross Sections

64-Gd-144



12

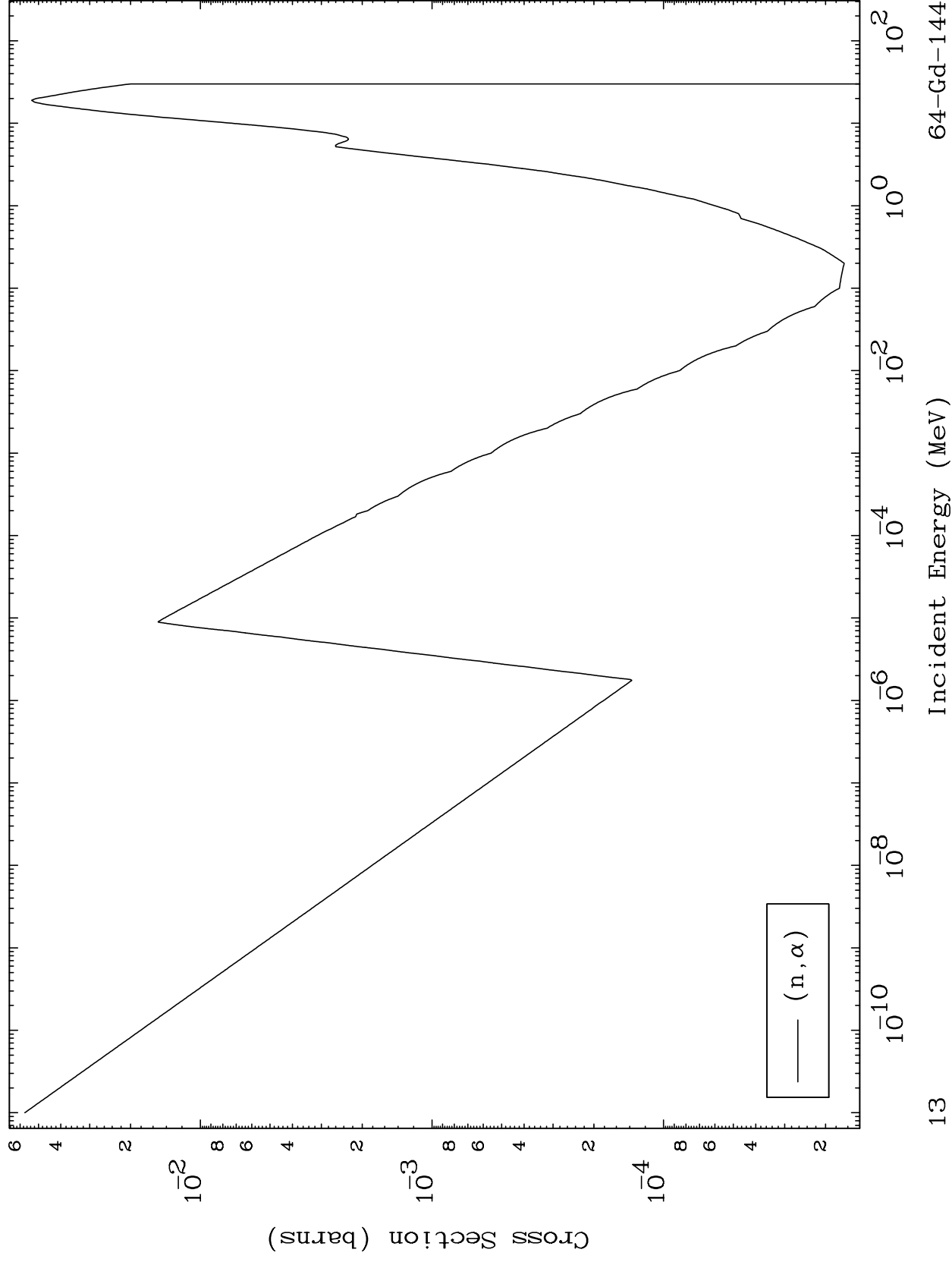
Incident Energy (MeV)

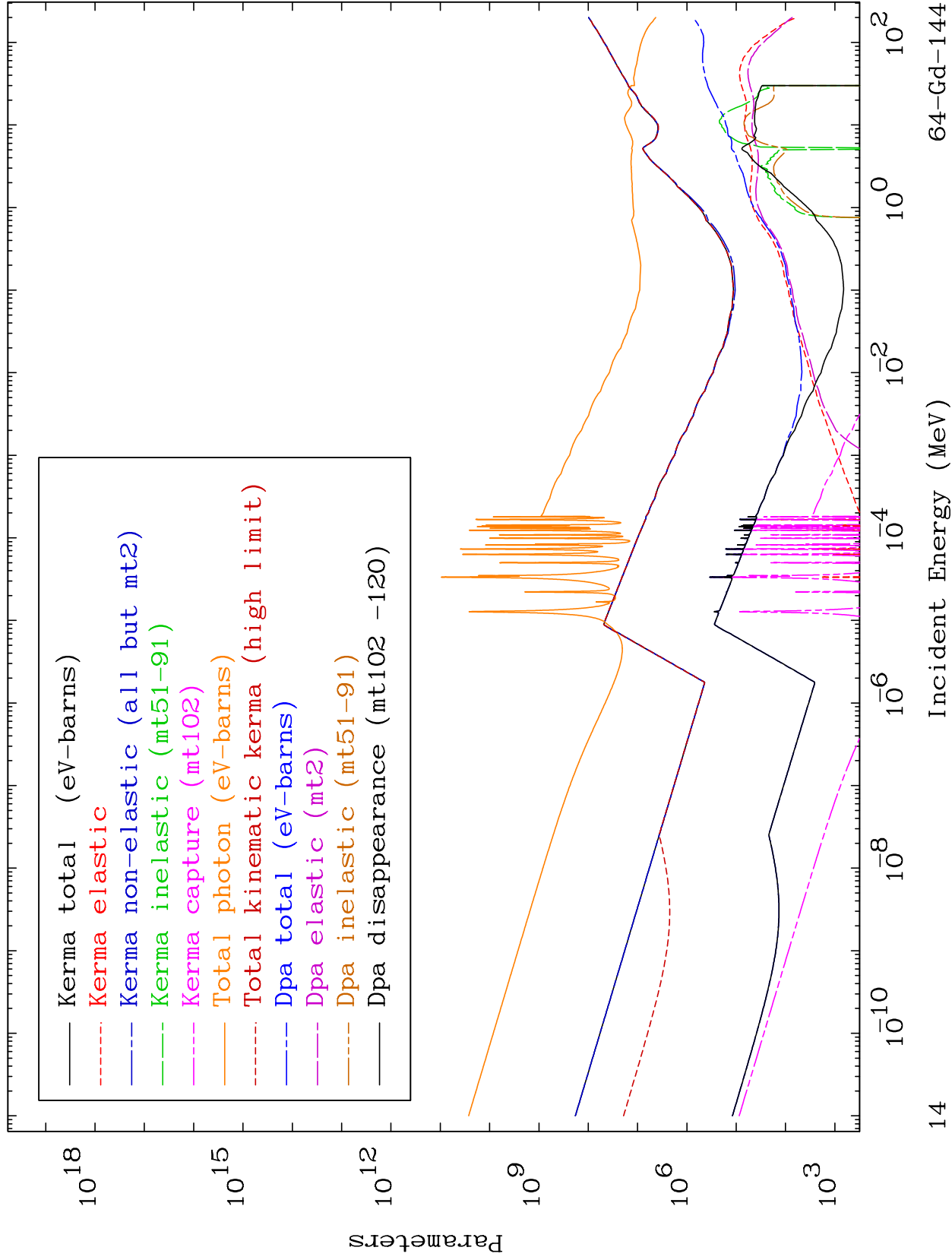
64-Gd-144

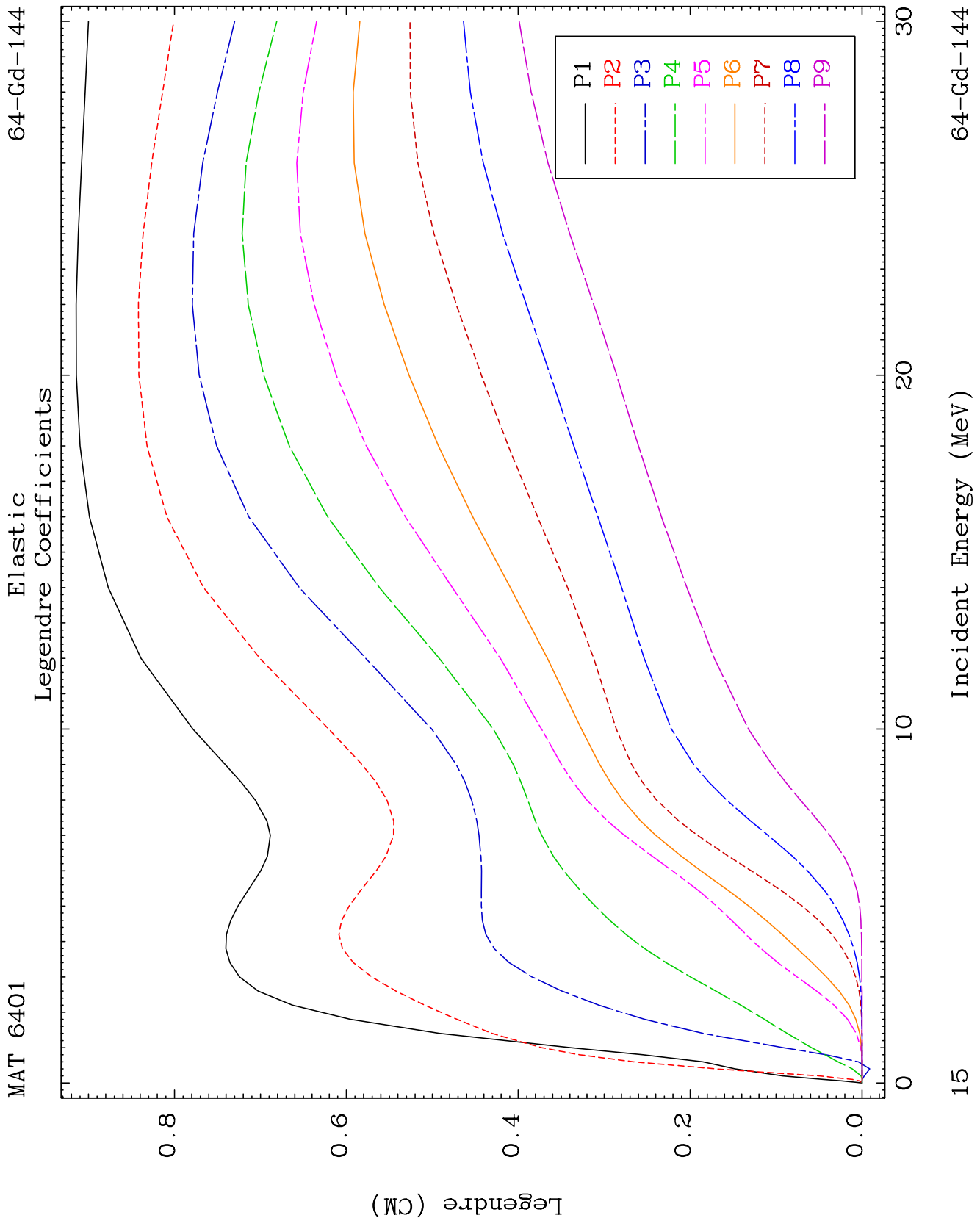
MAT 6401

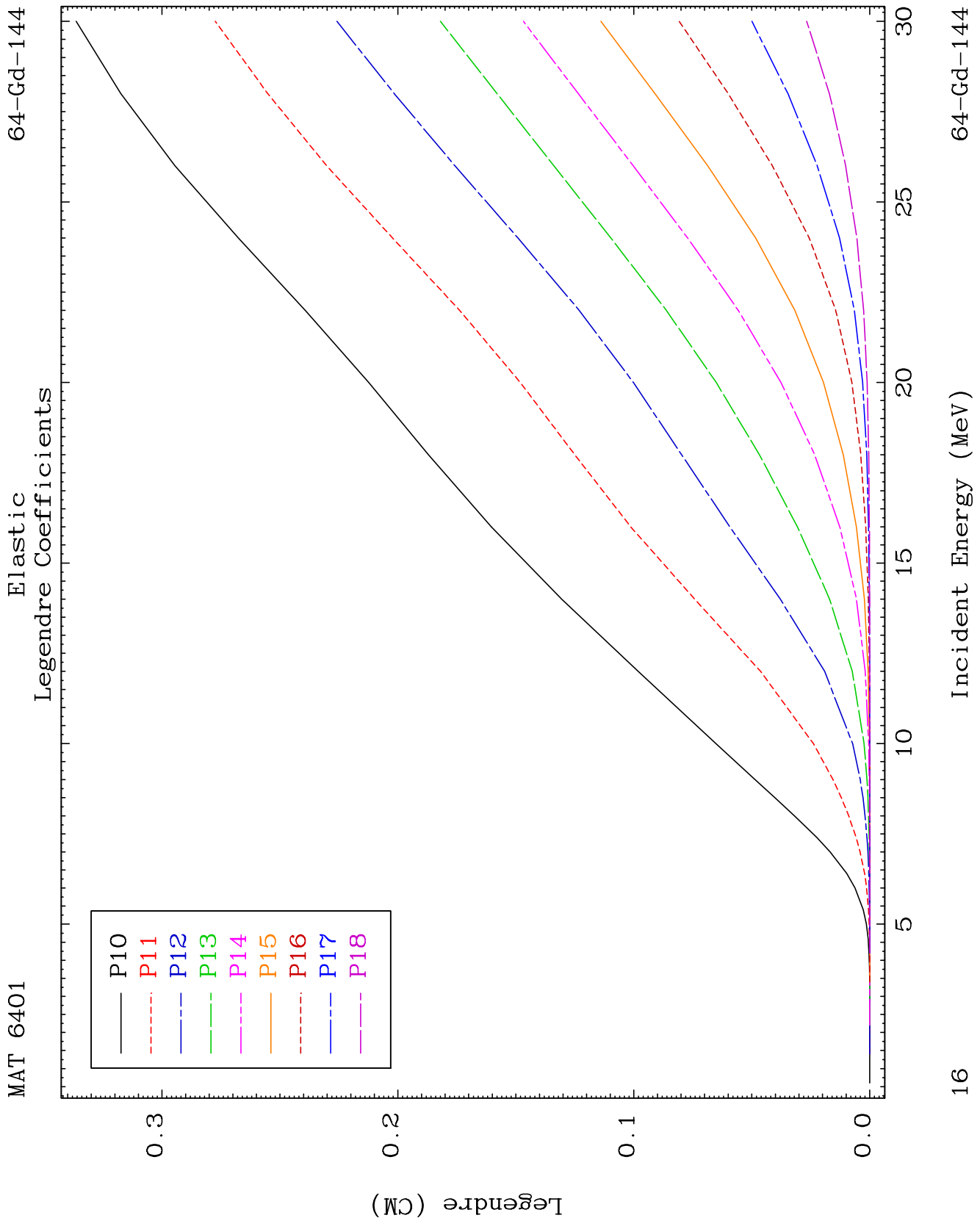
(n, α) Levels
293 Kelvin Cross Sections

64-Gd-144





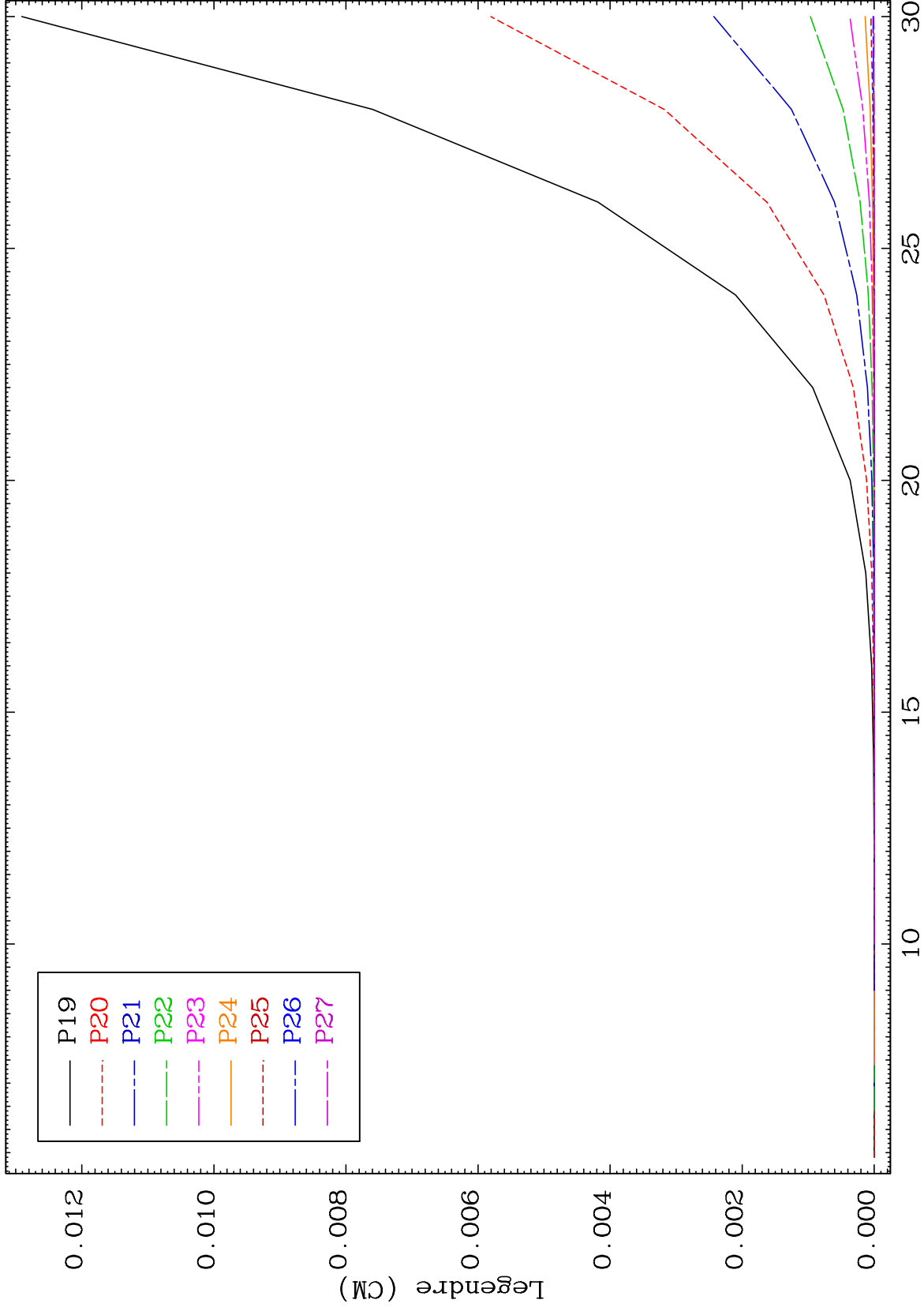




MAT 6401

Elastic Legendre Coefficients

64-Gd-144



17

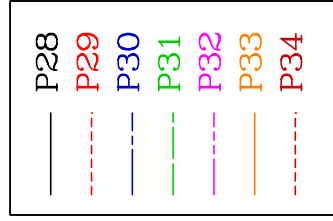
Incident Energy (MeV)

64-Gd-144

MAT 6401

Elastic
Legendre Coefficients

64-Gd-144



$\times 10^{-6}$

1.5

Legendre (CM)

1.0

0.5

0.0

15

20

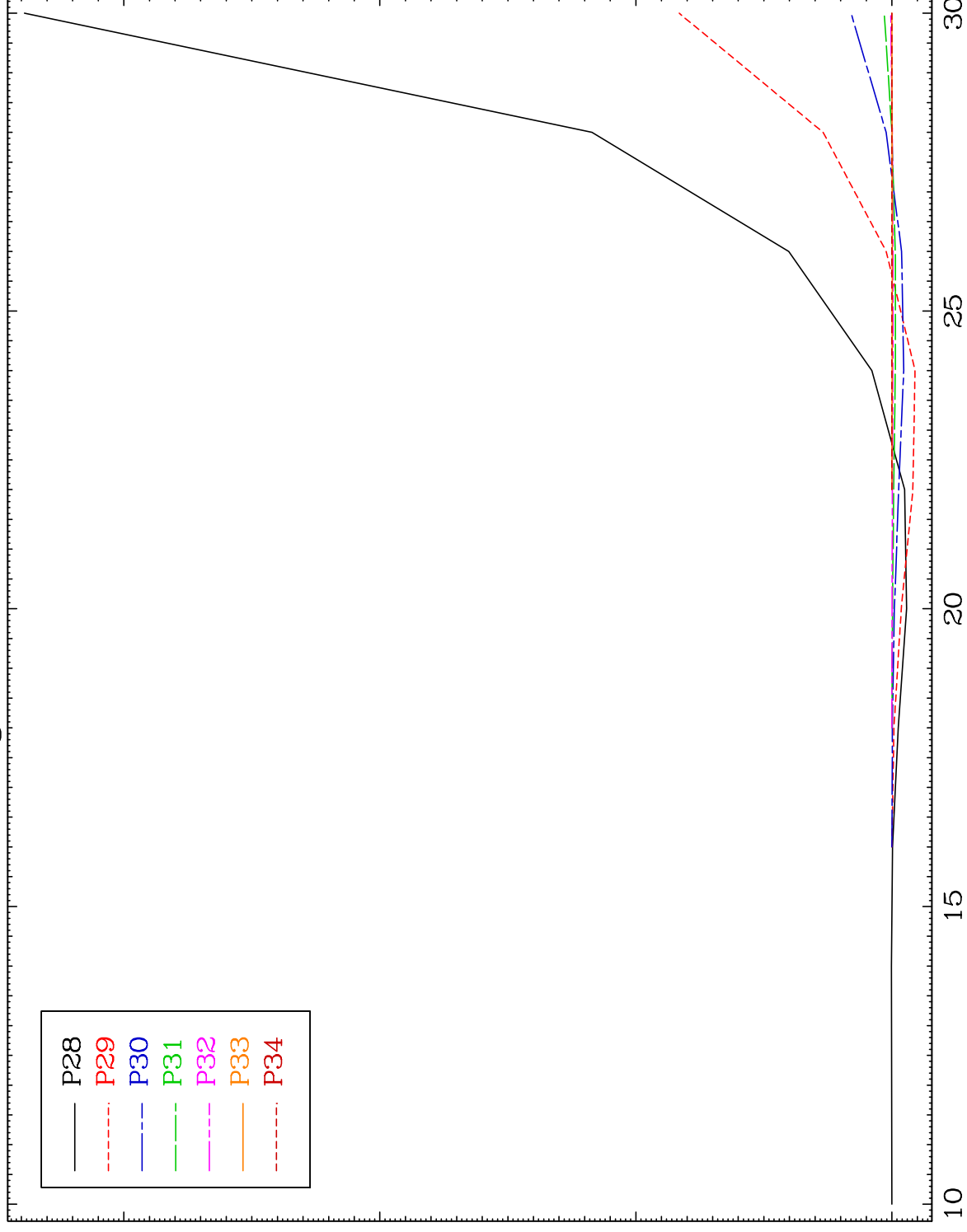
25

30

18

Incident Energy (MeV)

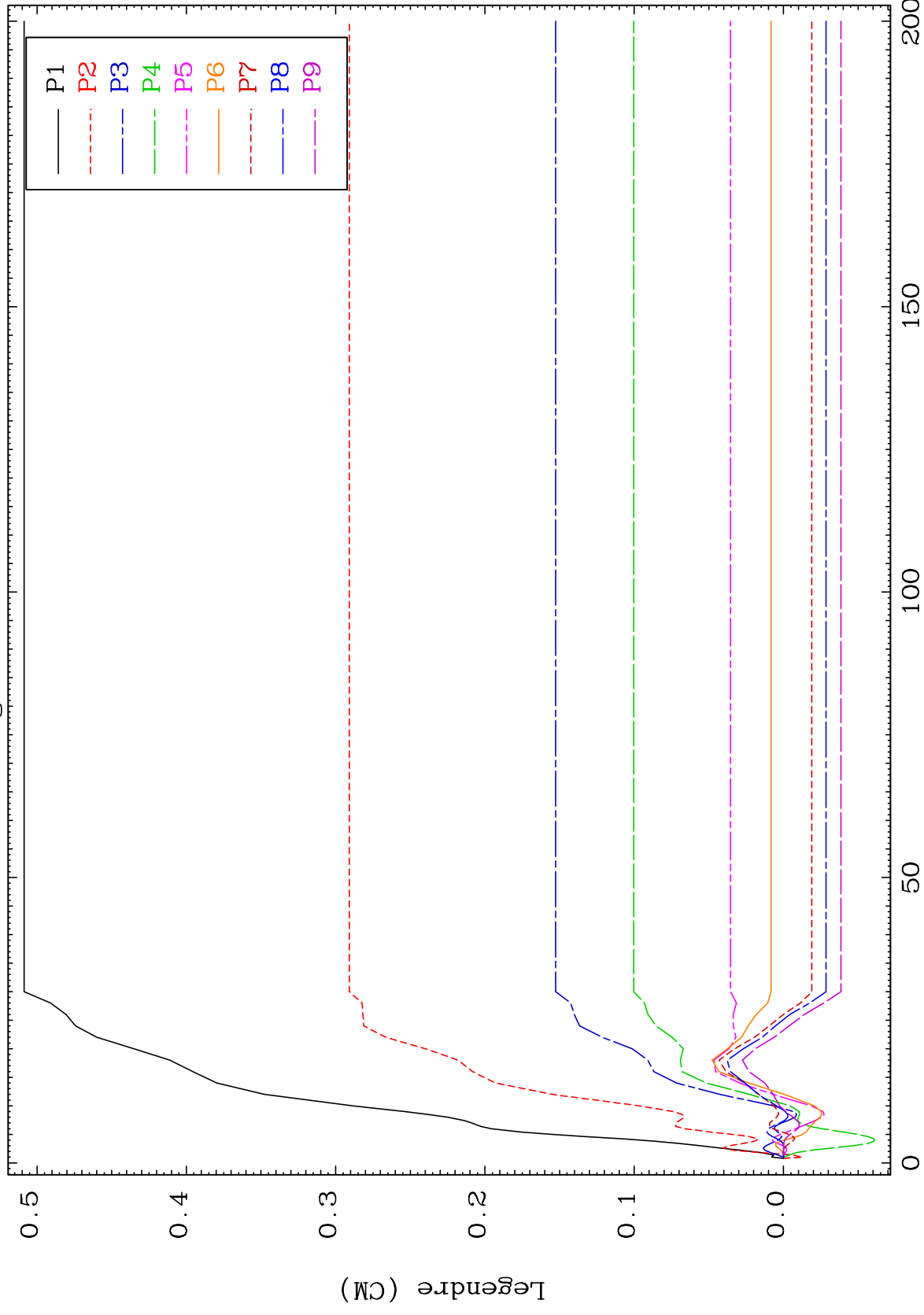
64-Gd-144



MAT 6401

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

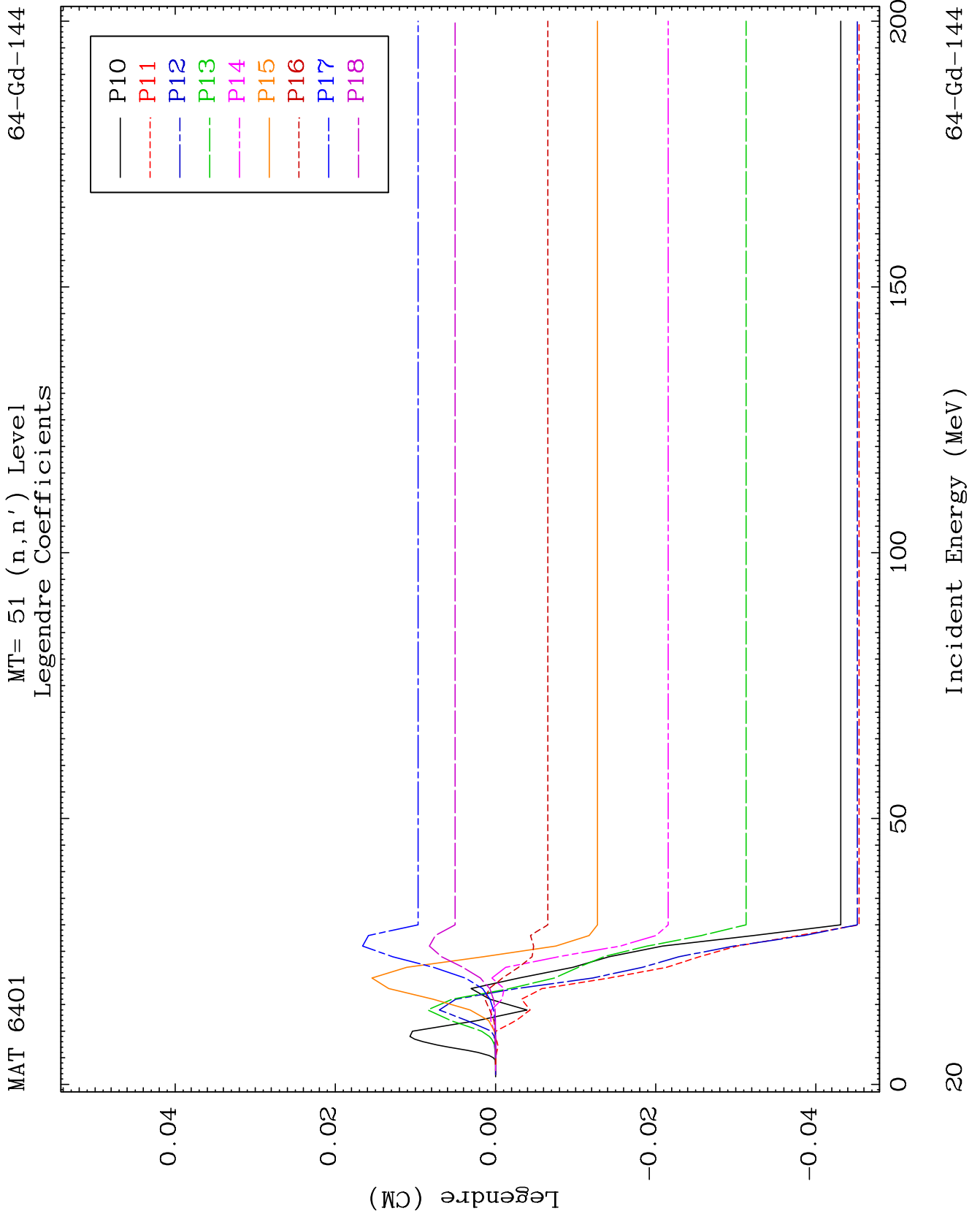
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19

Incident Energy (MeV)

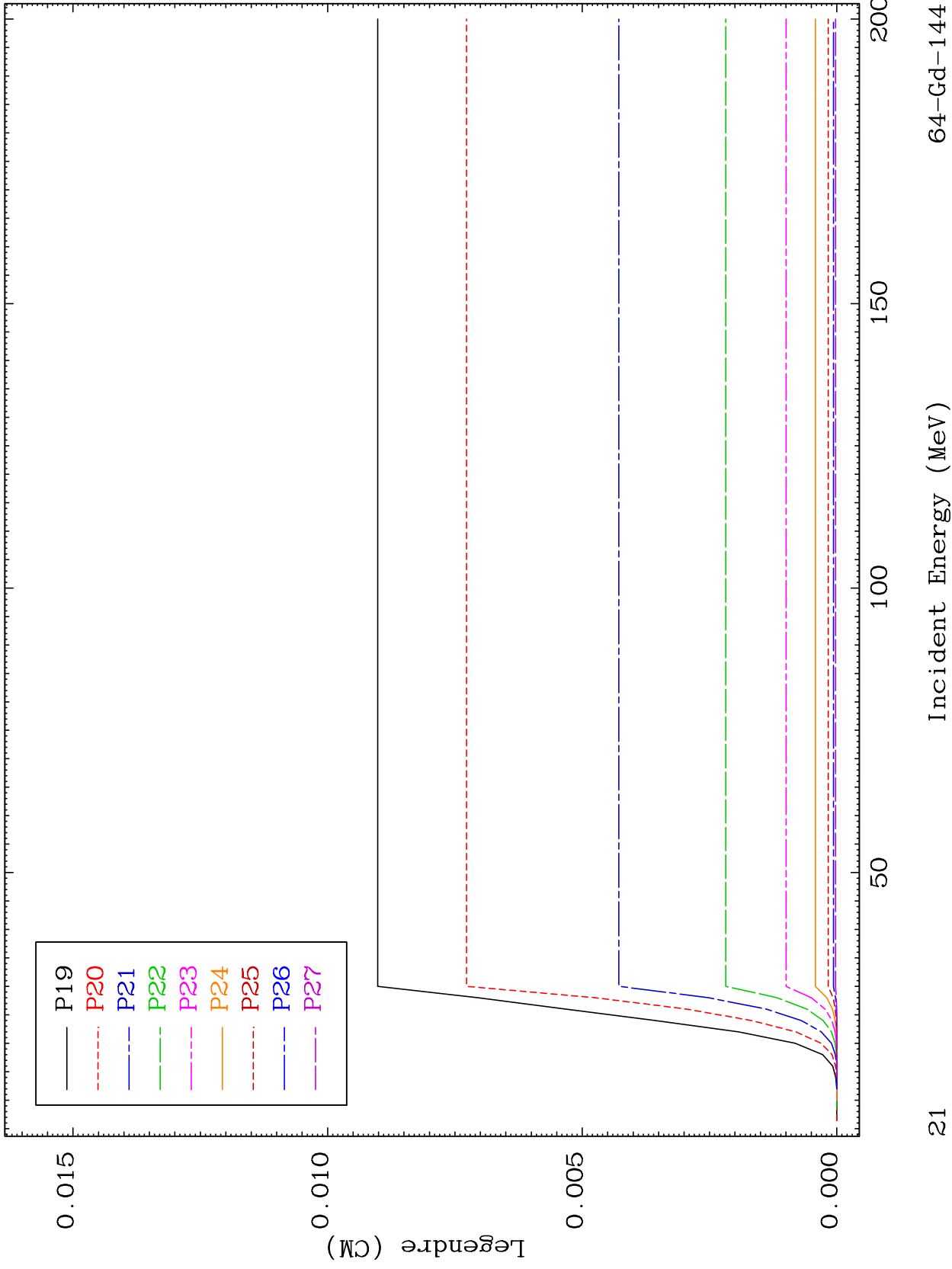
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MAT 6401

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

64-Gd-144



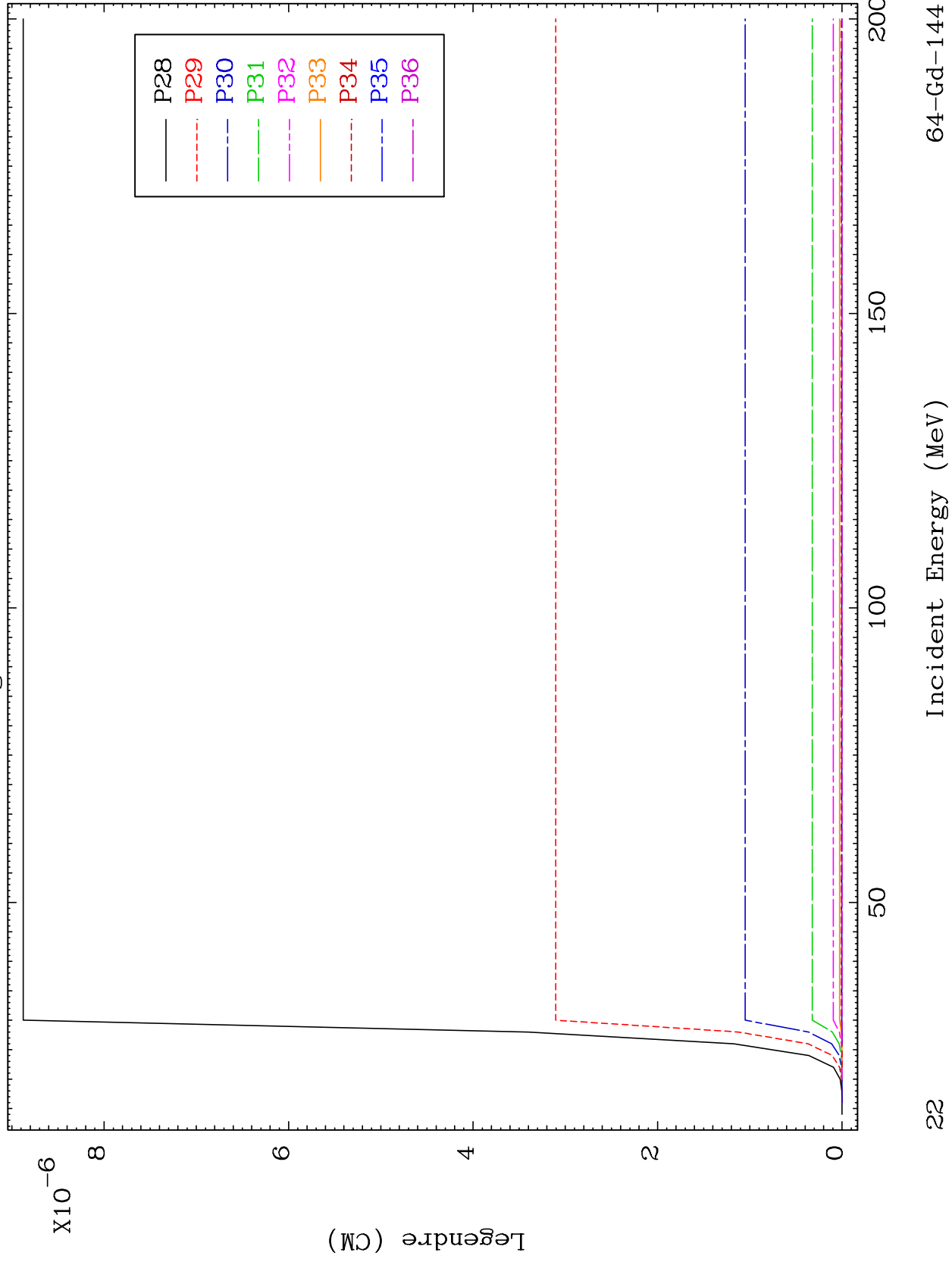
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64-Gd-144

MAT 6401

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

64-Gd-144



22

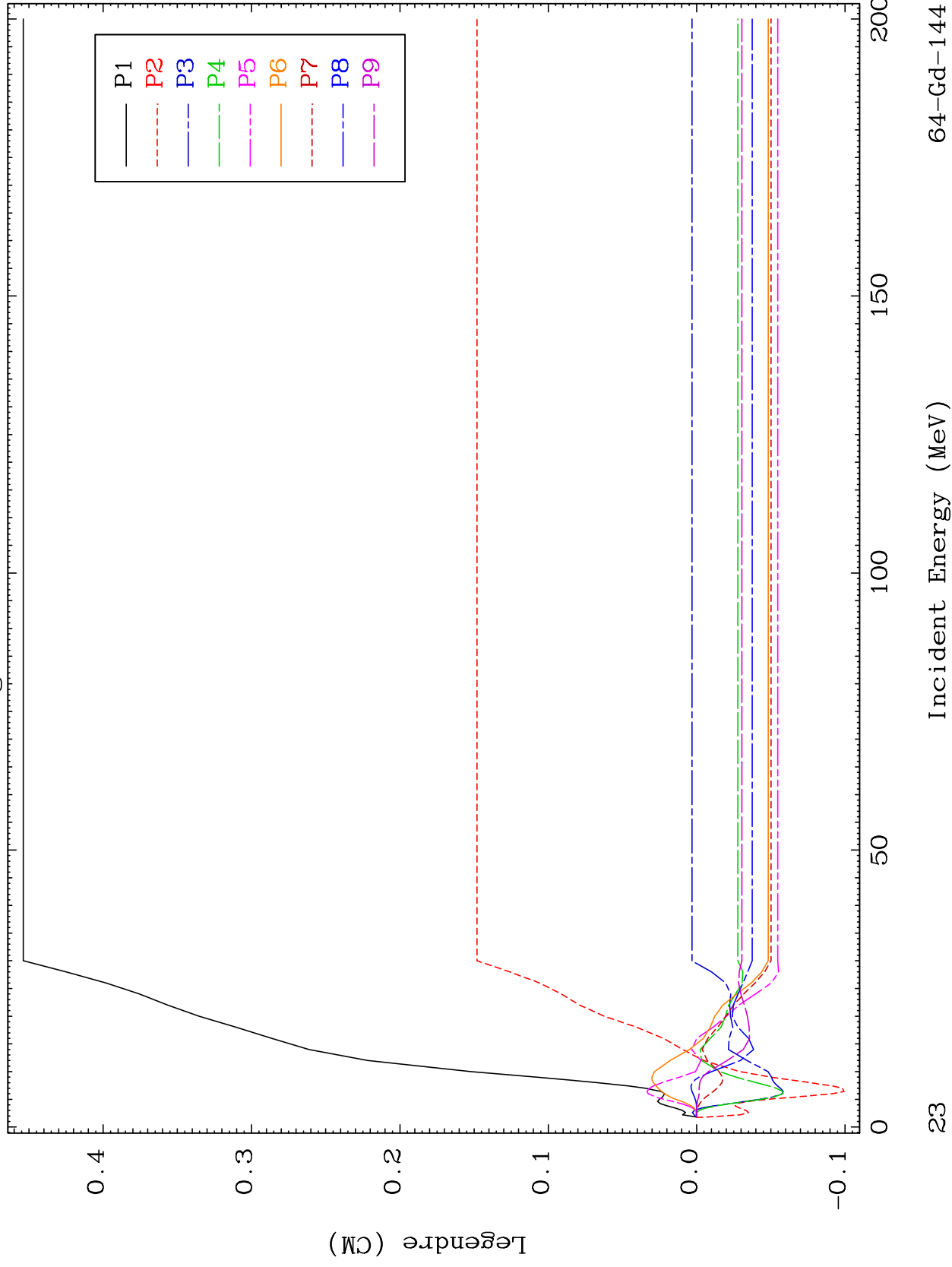
Incident Energy (MeV)

64-Gd-144

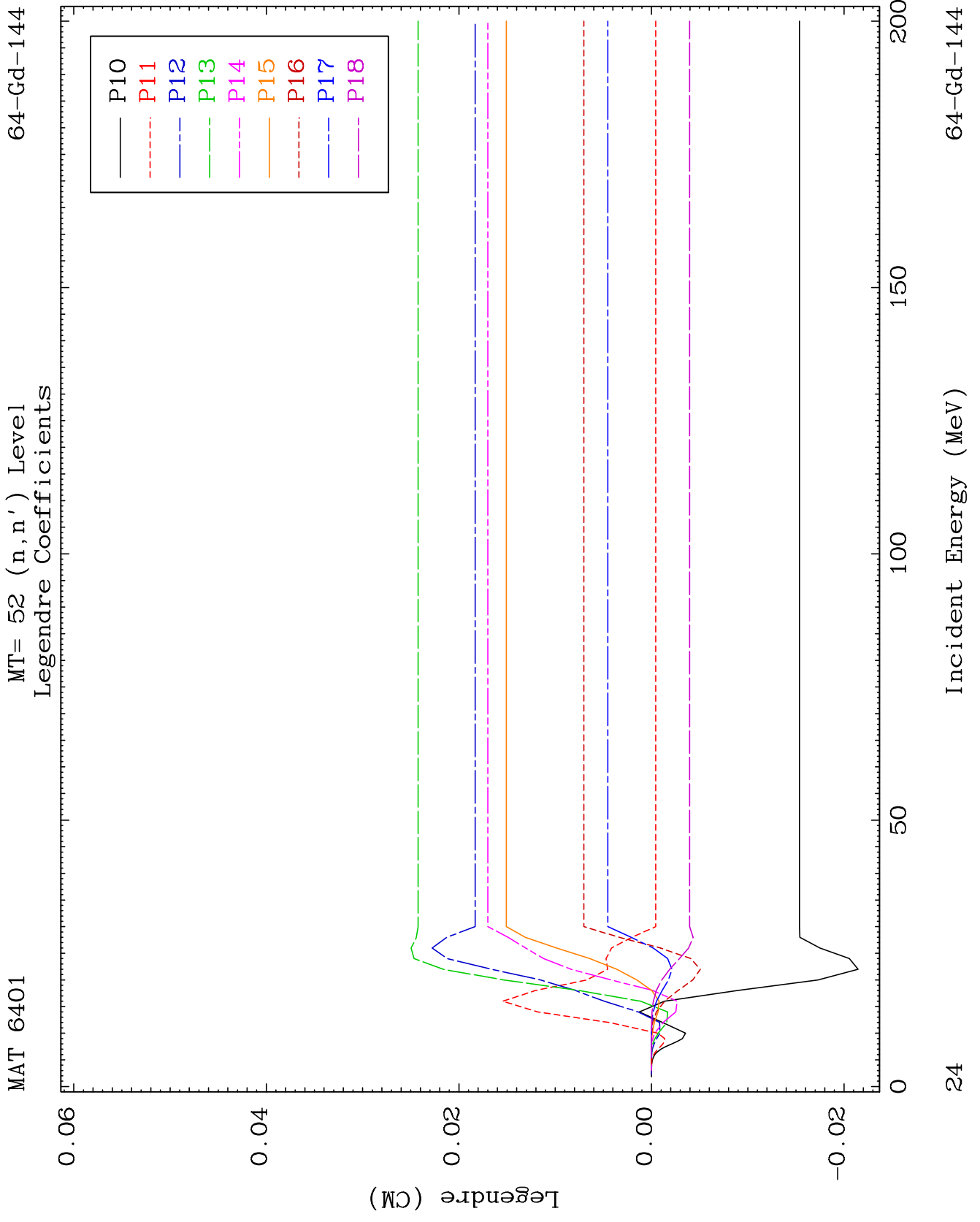
MAT 6401

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

64-Gd-144



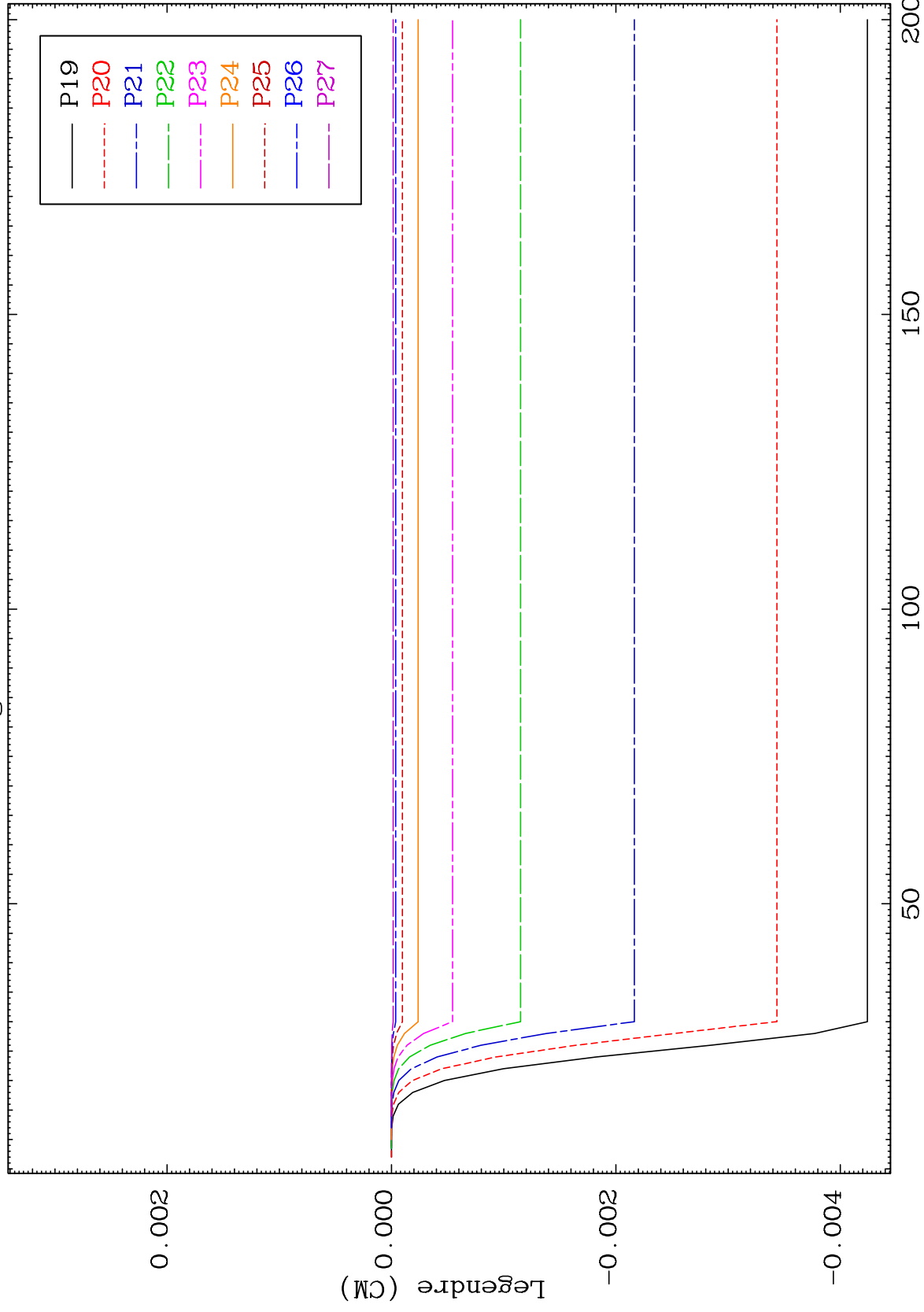
64-Gd-144



MAT 6401

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

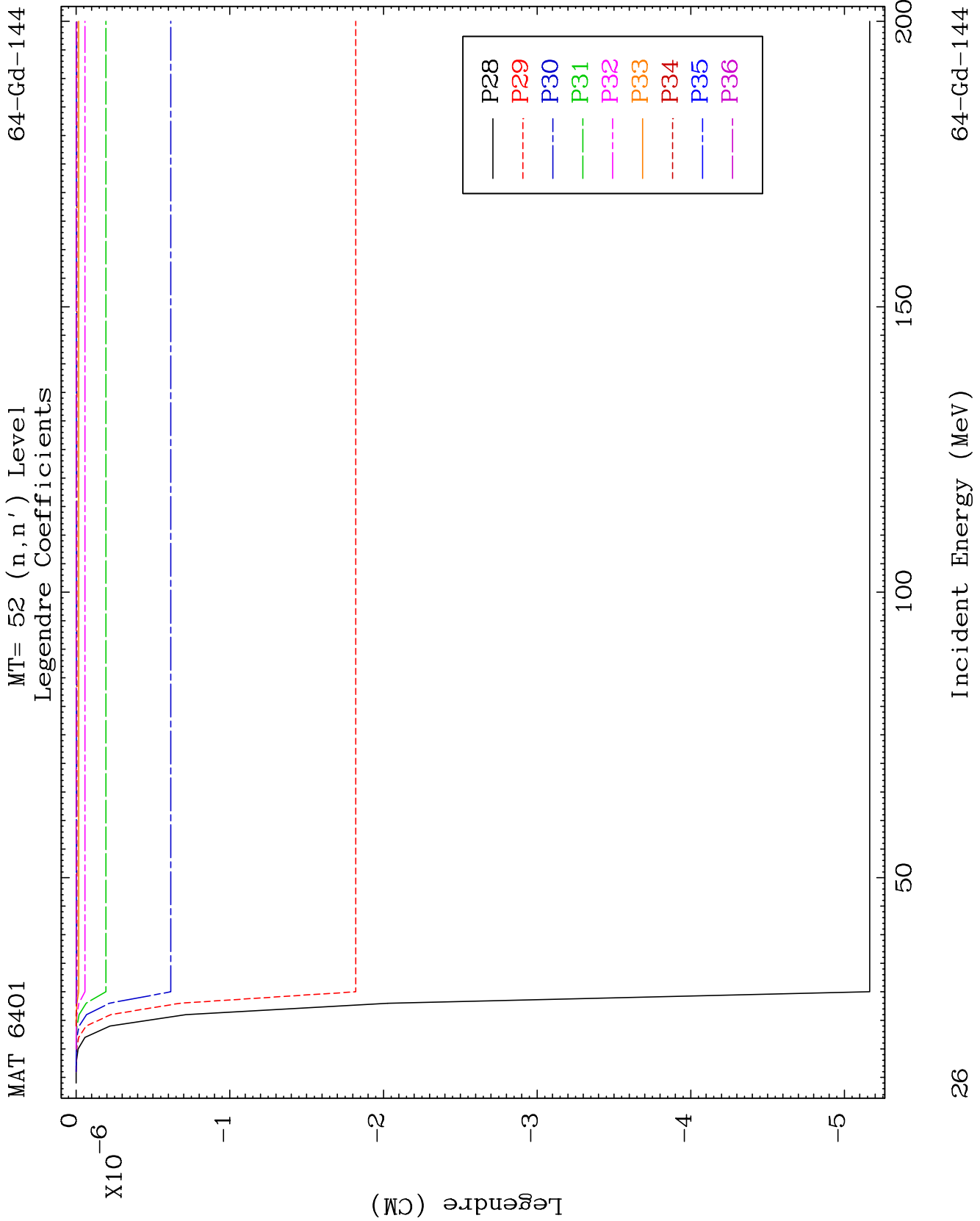
64-Gd-144



25

Incident Energy (MeV)

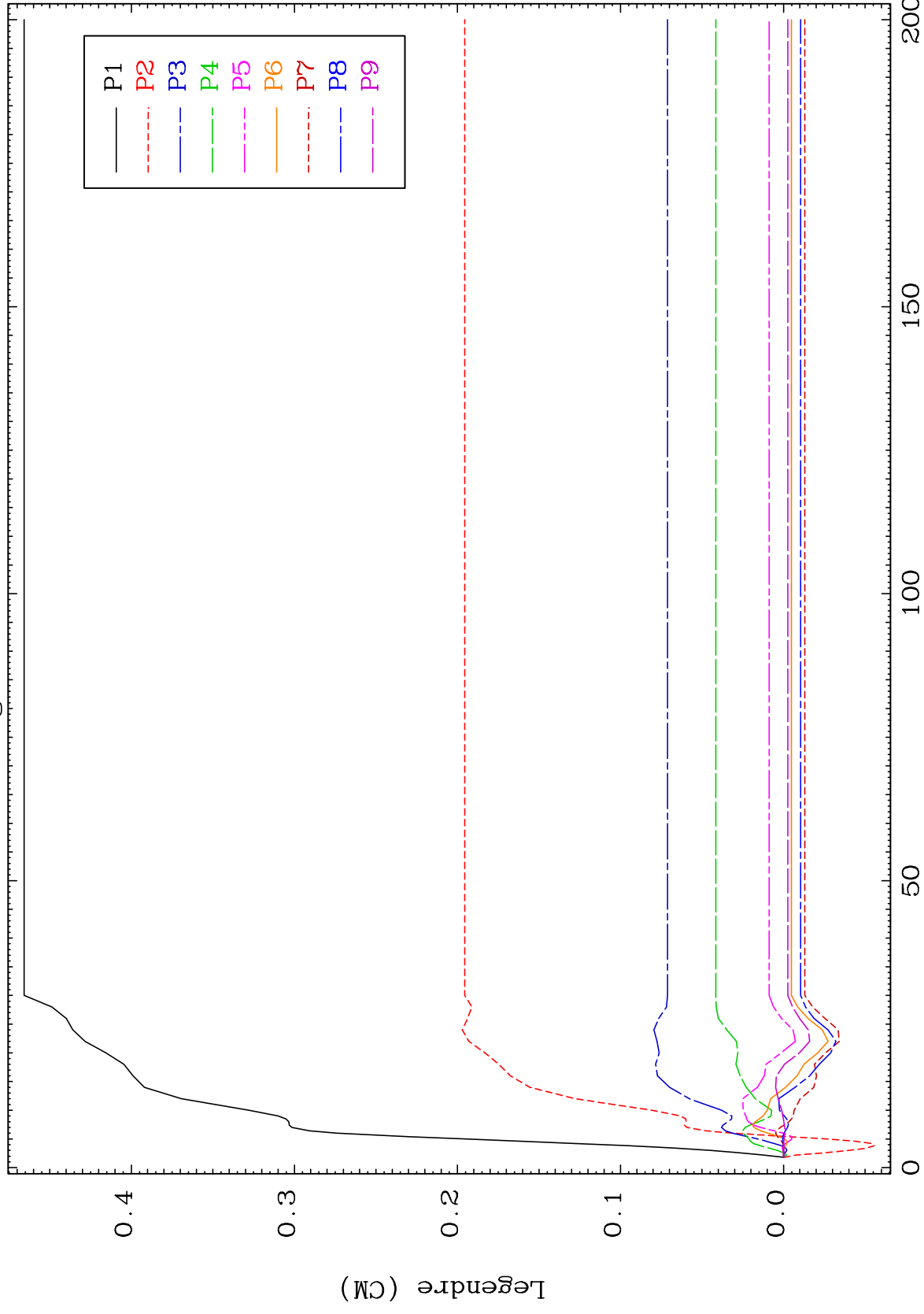
64-Gd-144



MAT 6401

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

64-Gd-144



64-Gd-144

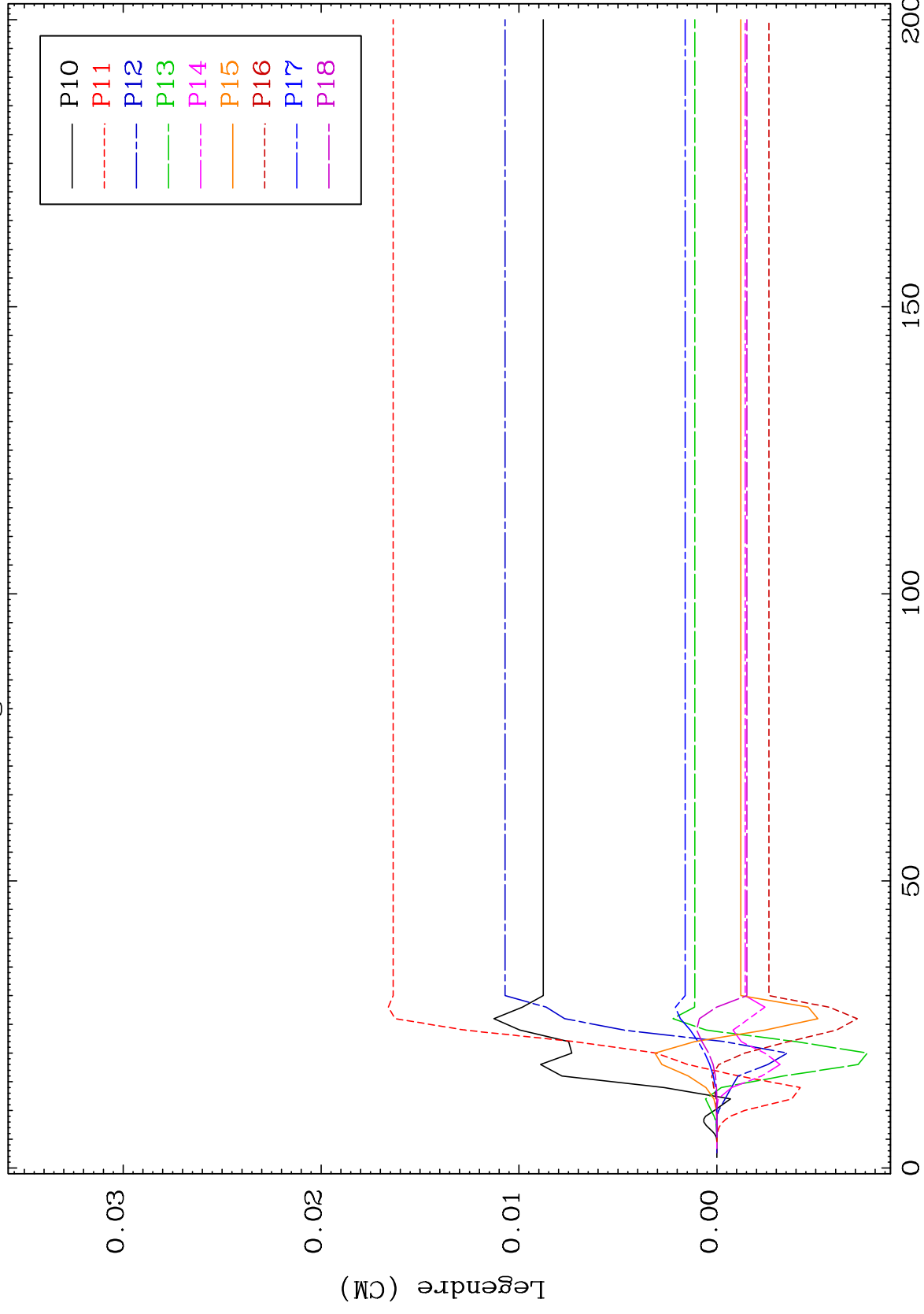
Incident Energy (MeV)

27

MAT 6401

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

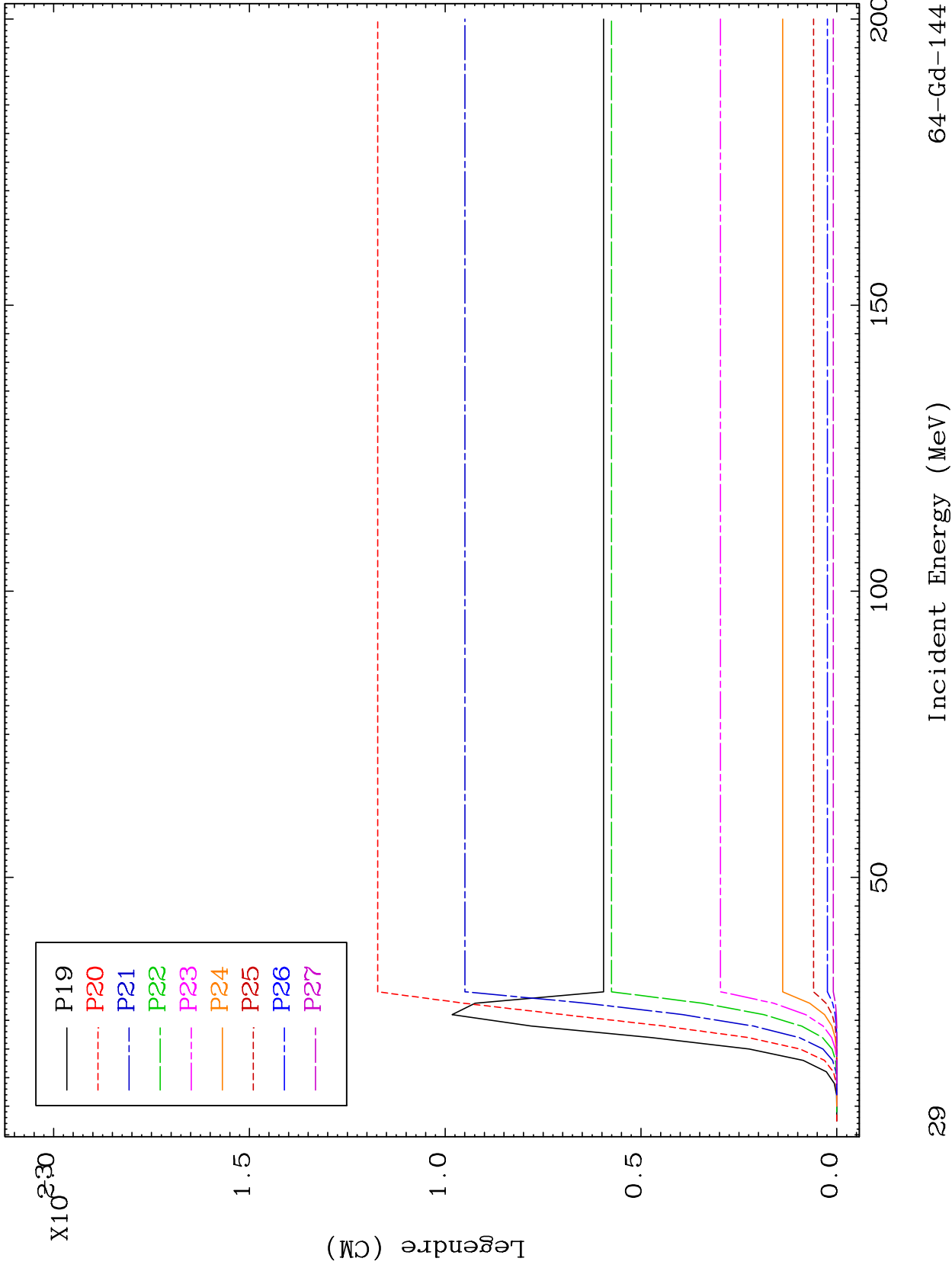
64-Gd-144



28

64-Gd-144

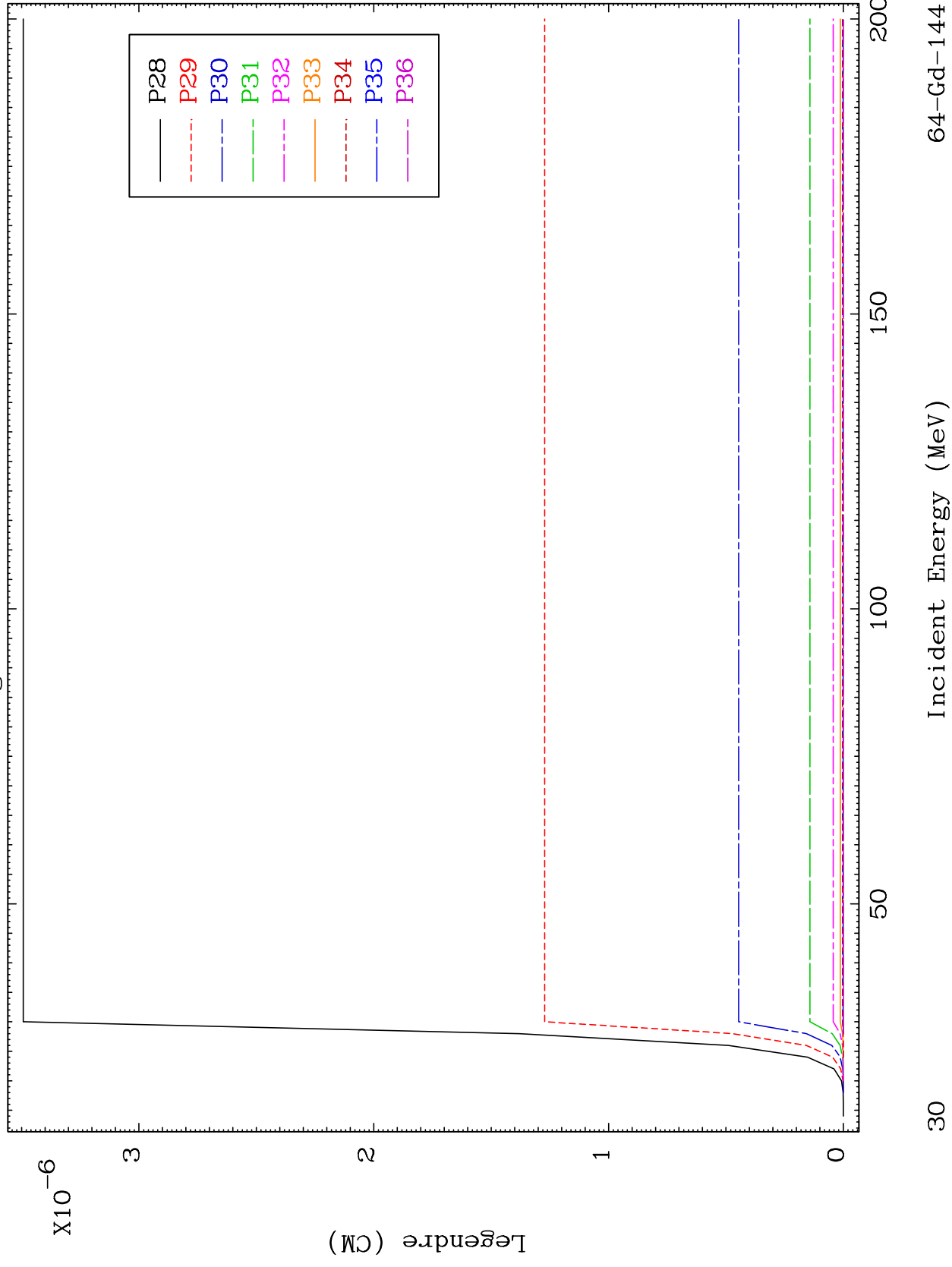
64-Gd-144



MAT 6401

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

64-Gd-144



64-Gd-144

Incident Energy (MeV)

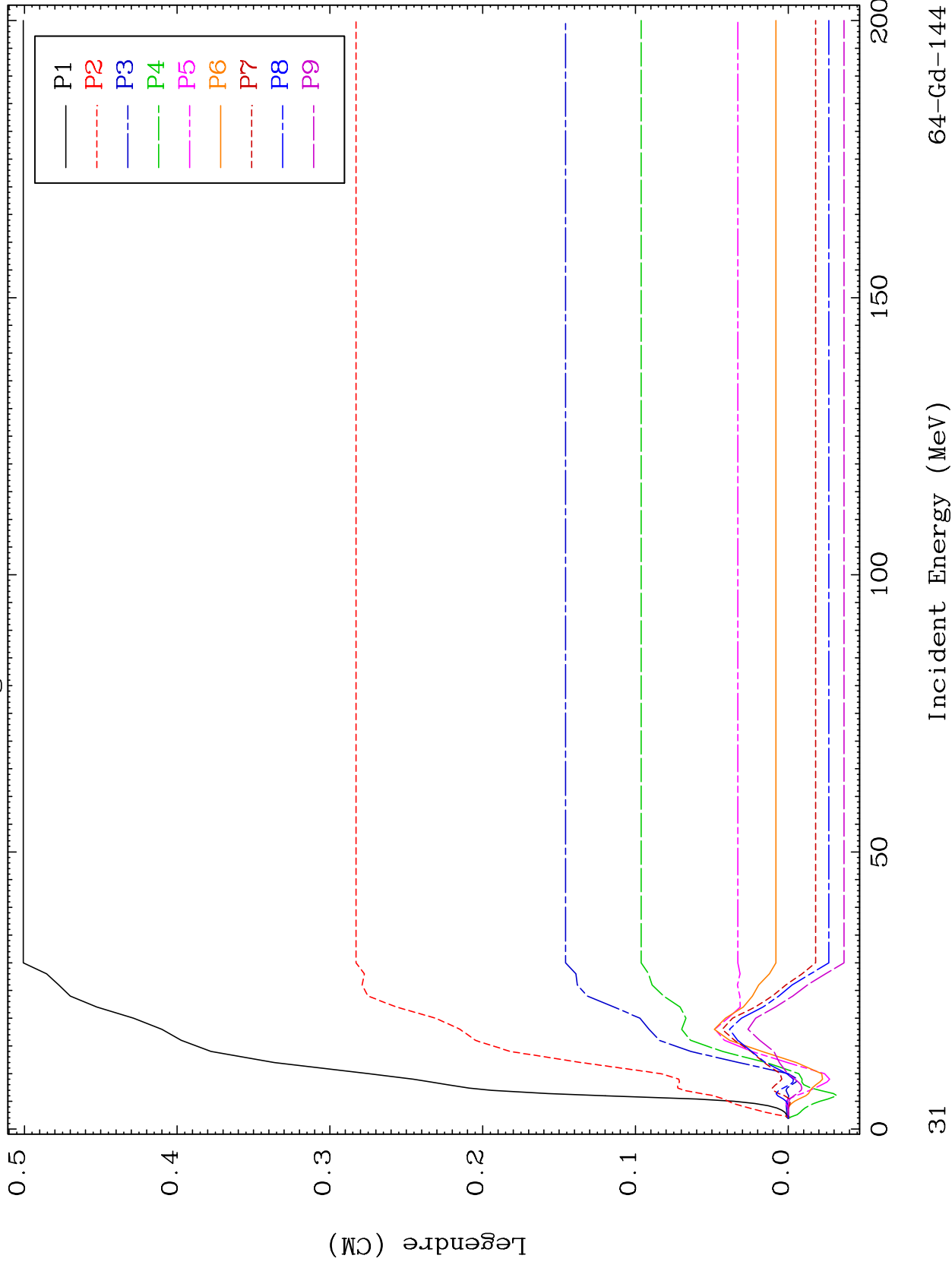
30

MAT 6401

MT= 54 (n,n') Level

64-Gd-144

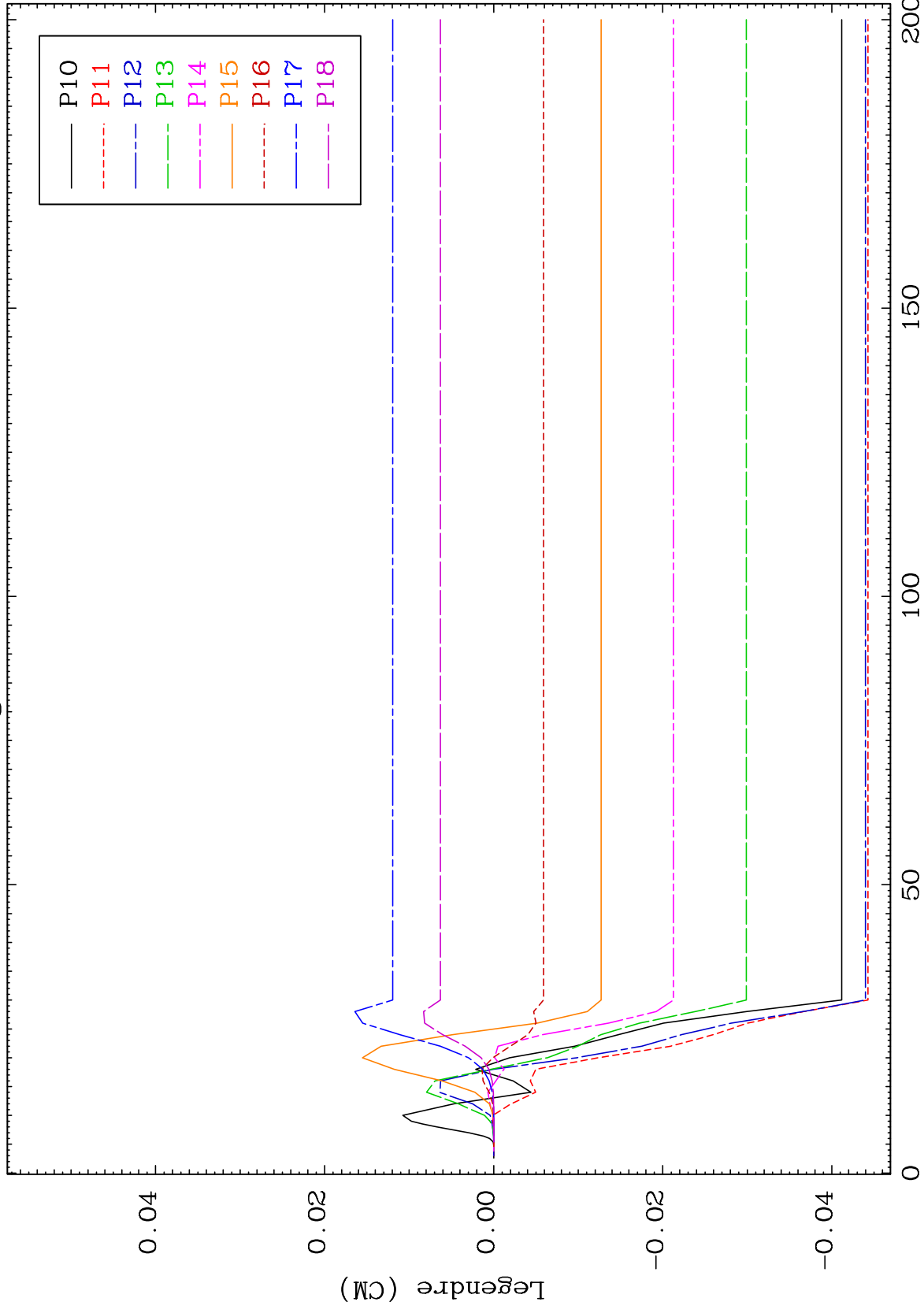
Legendre Coefficients



MAT 6401

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

64-Gd-144



32

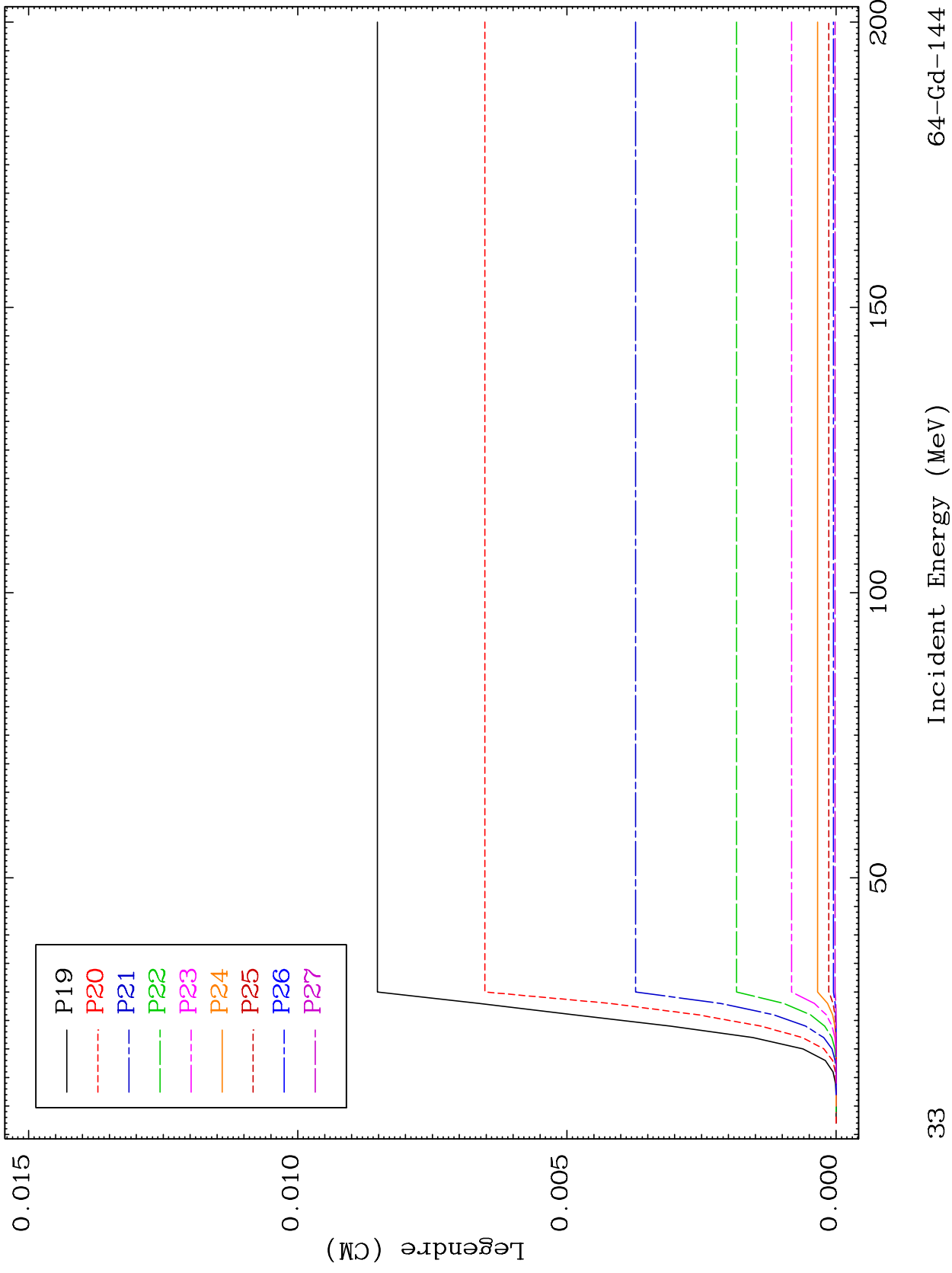
Incident Energy (MeV)

64-Gd-144

MAT 6401

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

64-Gd-144



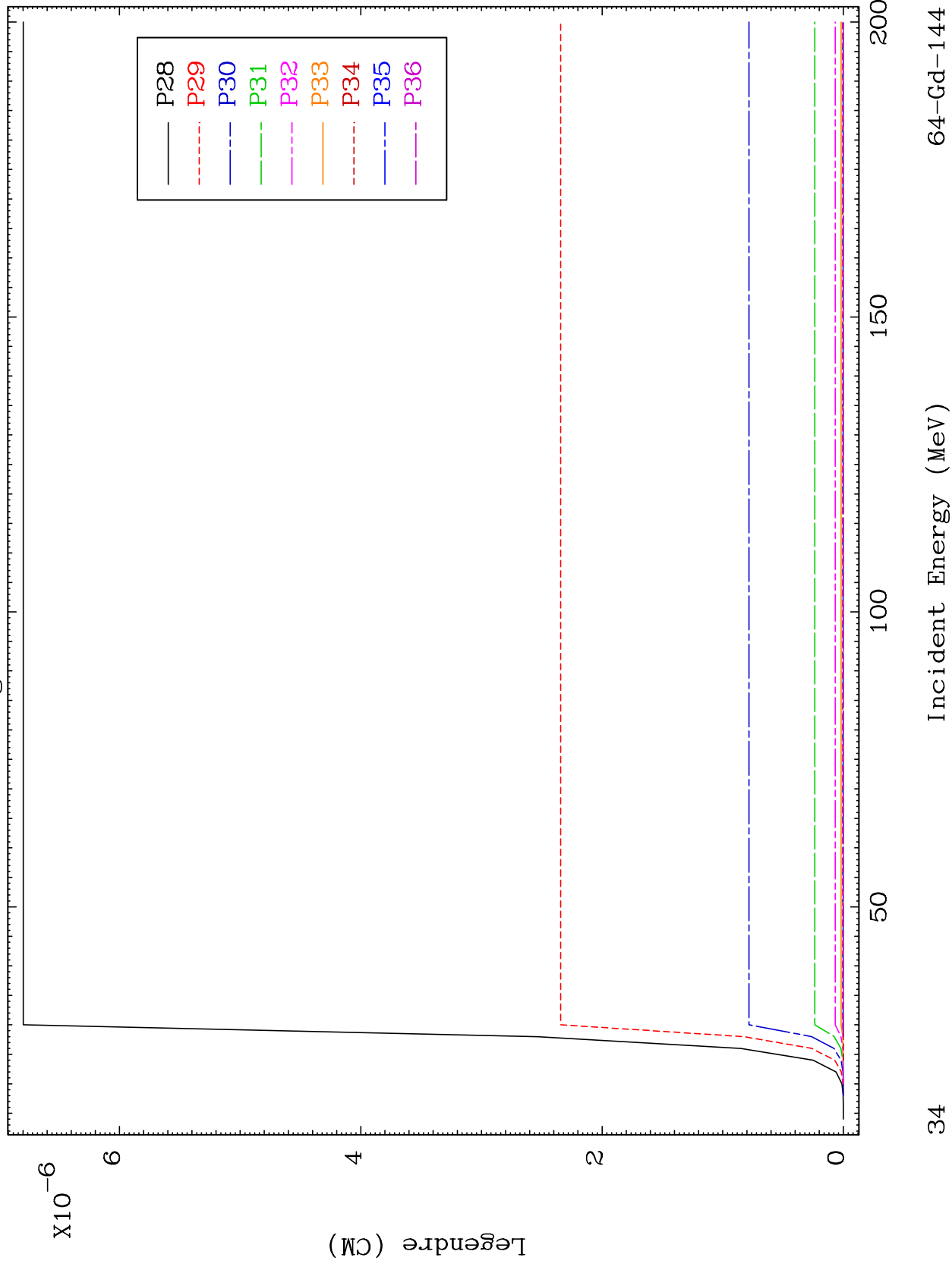
33

64-Gd-144

MAT 6401

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

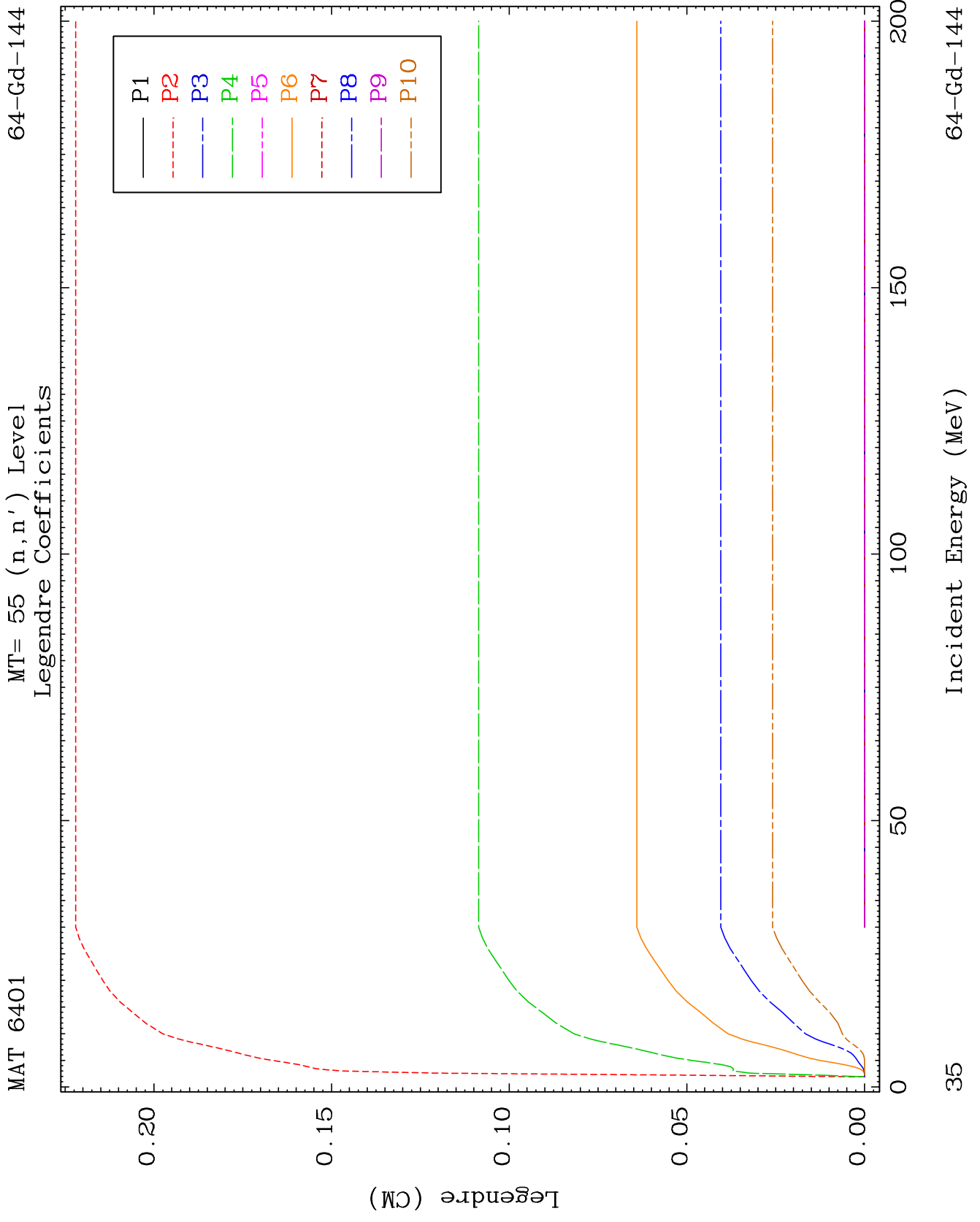
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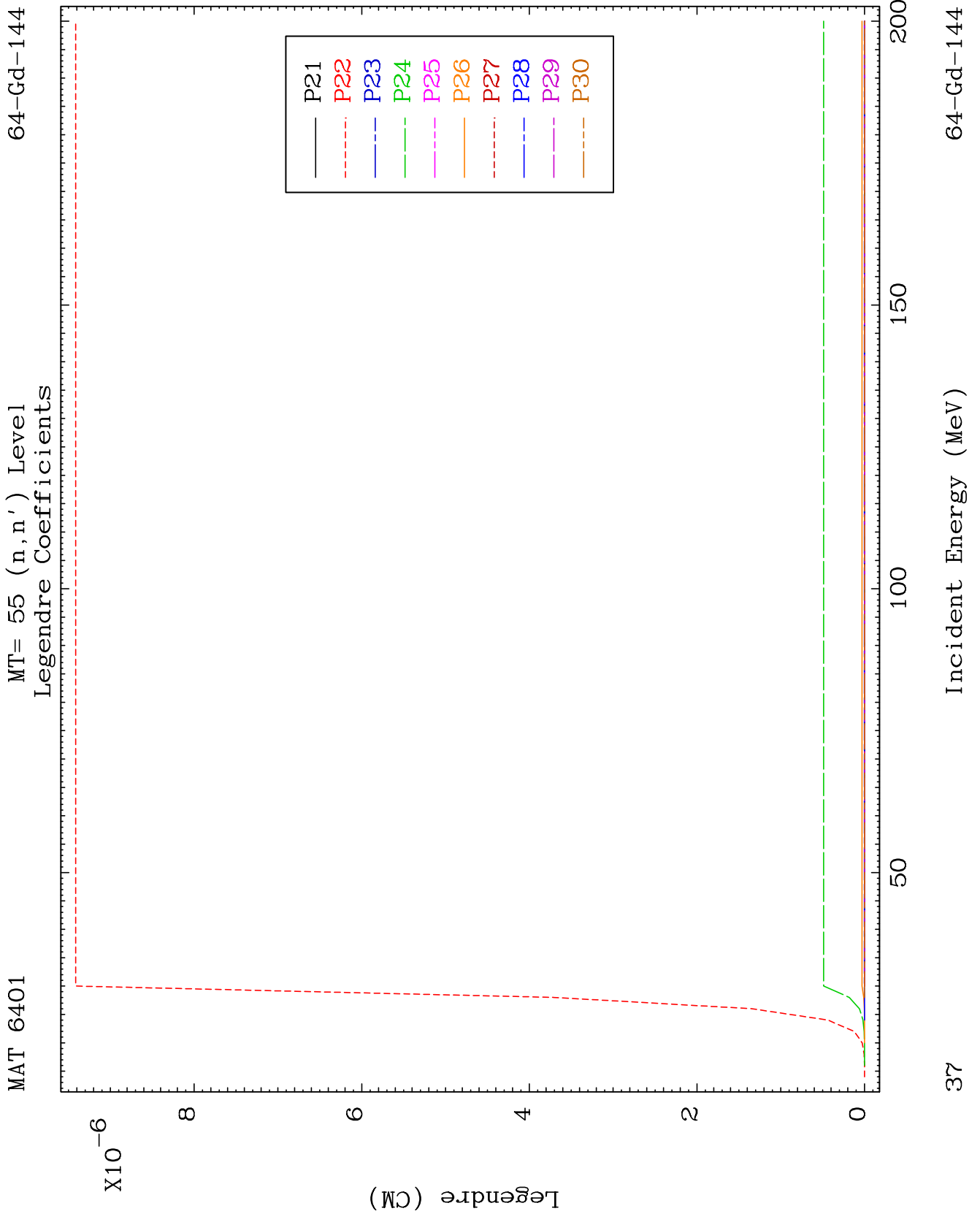


34

Incident Energy (MeV)

64-Gd-144

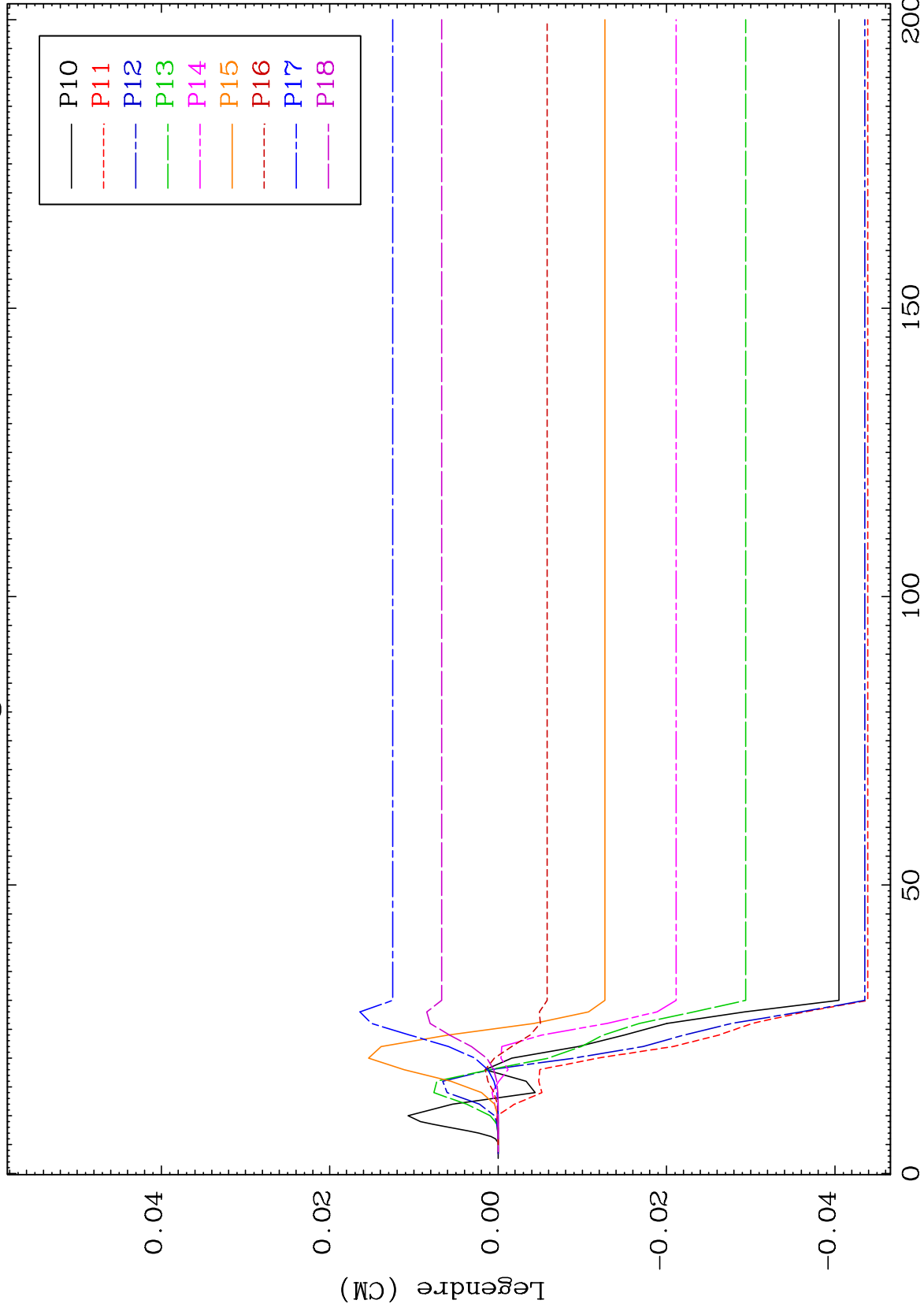




MAT 6401

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

64-Gd-144



39

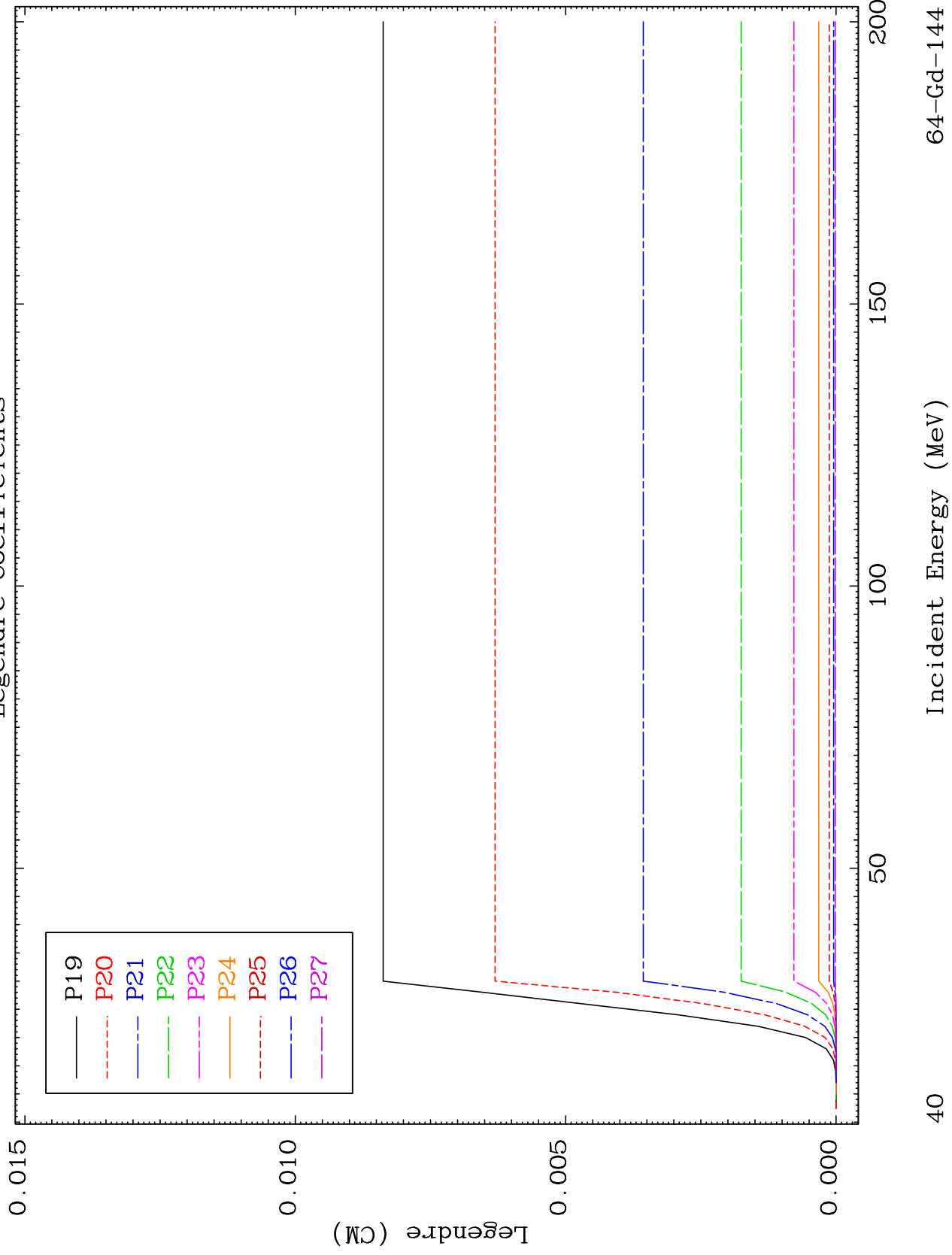
Incident Energy (MeV)

64-Gd-144

MAT 6401

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

64-Gd-144



64-Gd-144

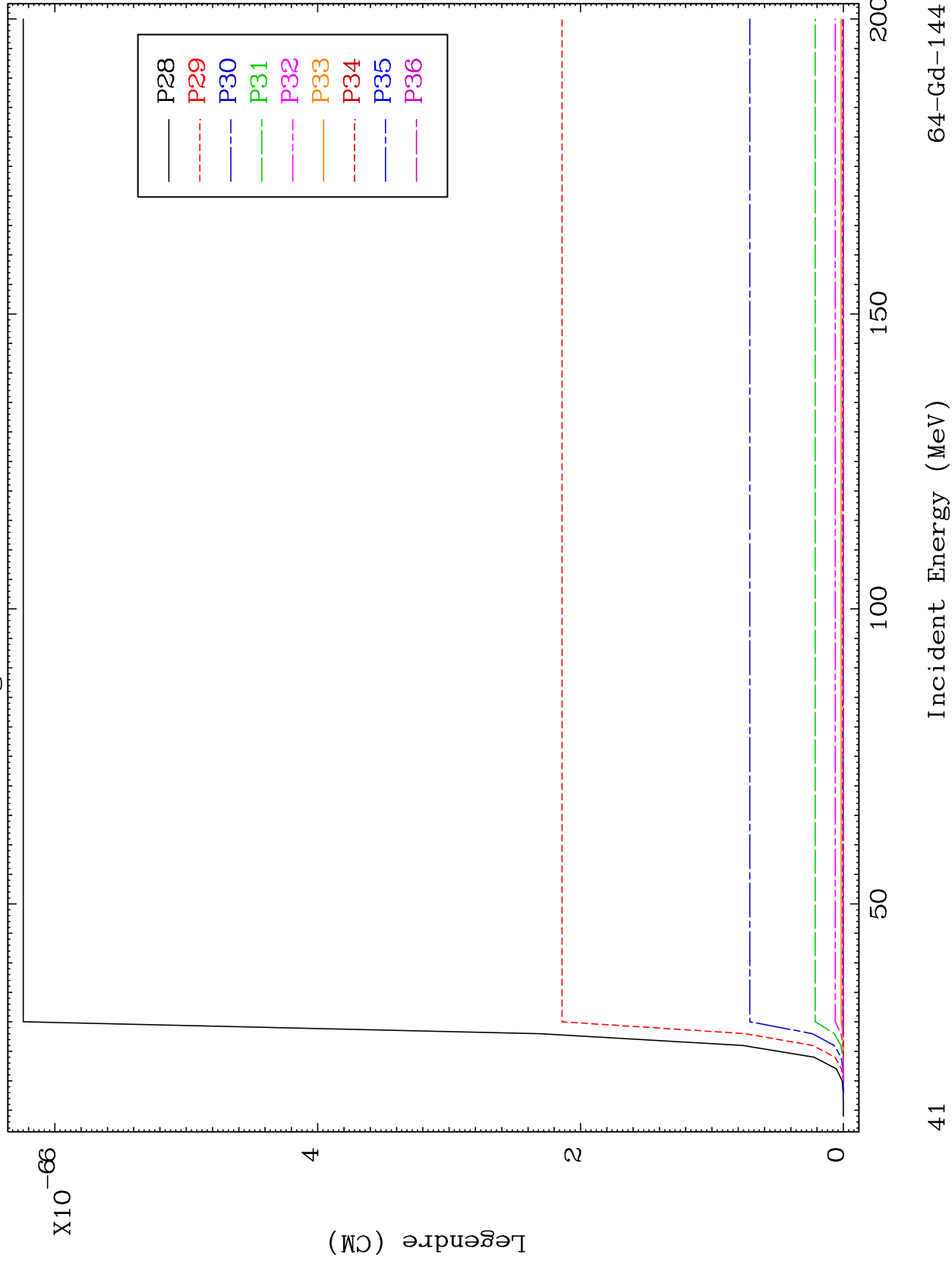
Incident Energy (MeV)

40

MAT 6401

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

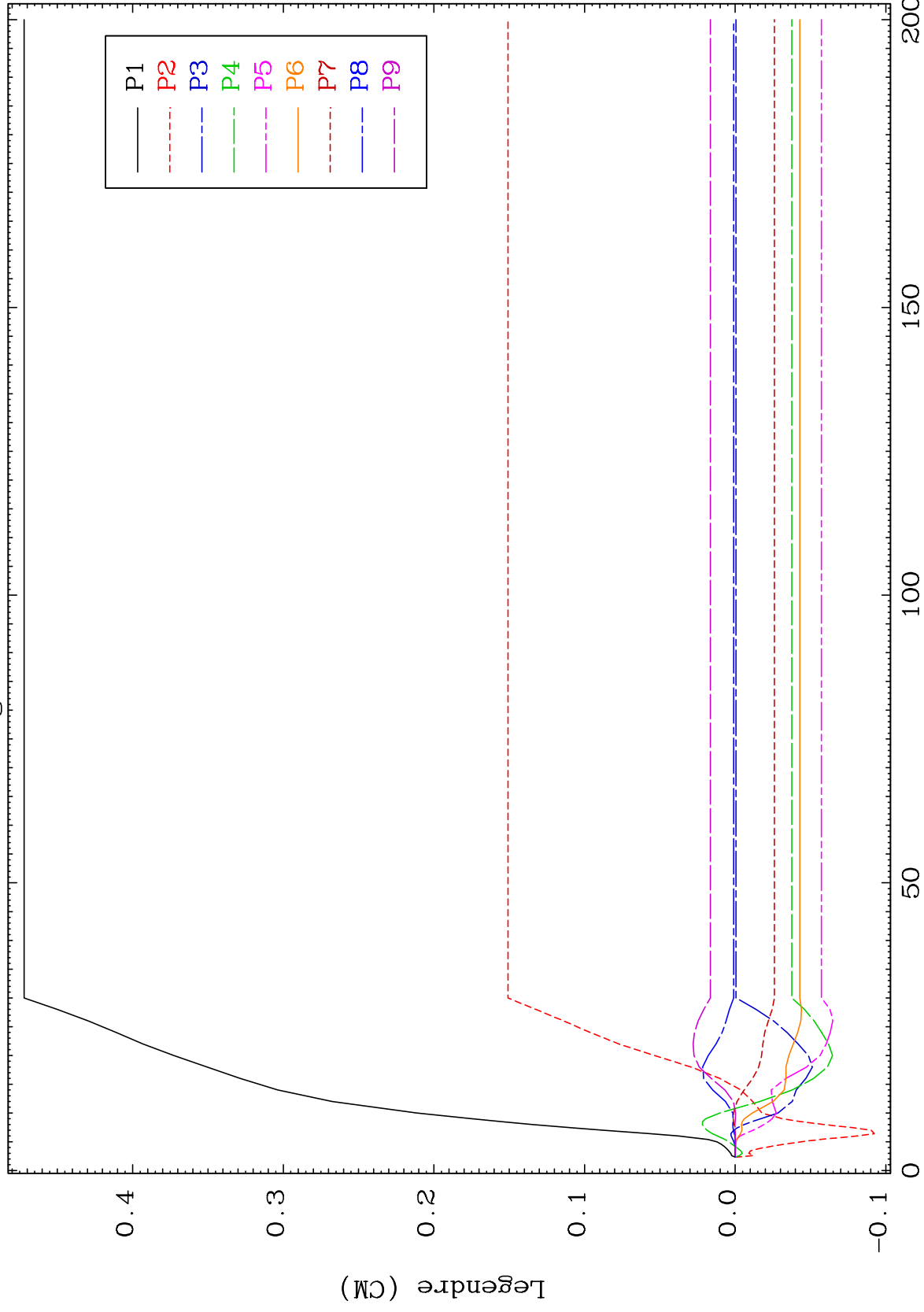
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MAT 6401

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

64-Gd-144



42

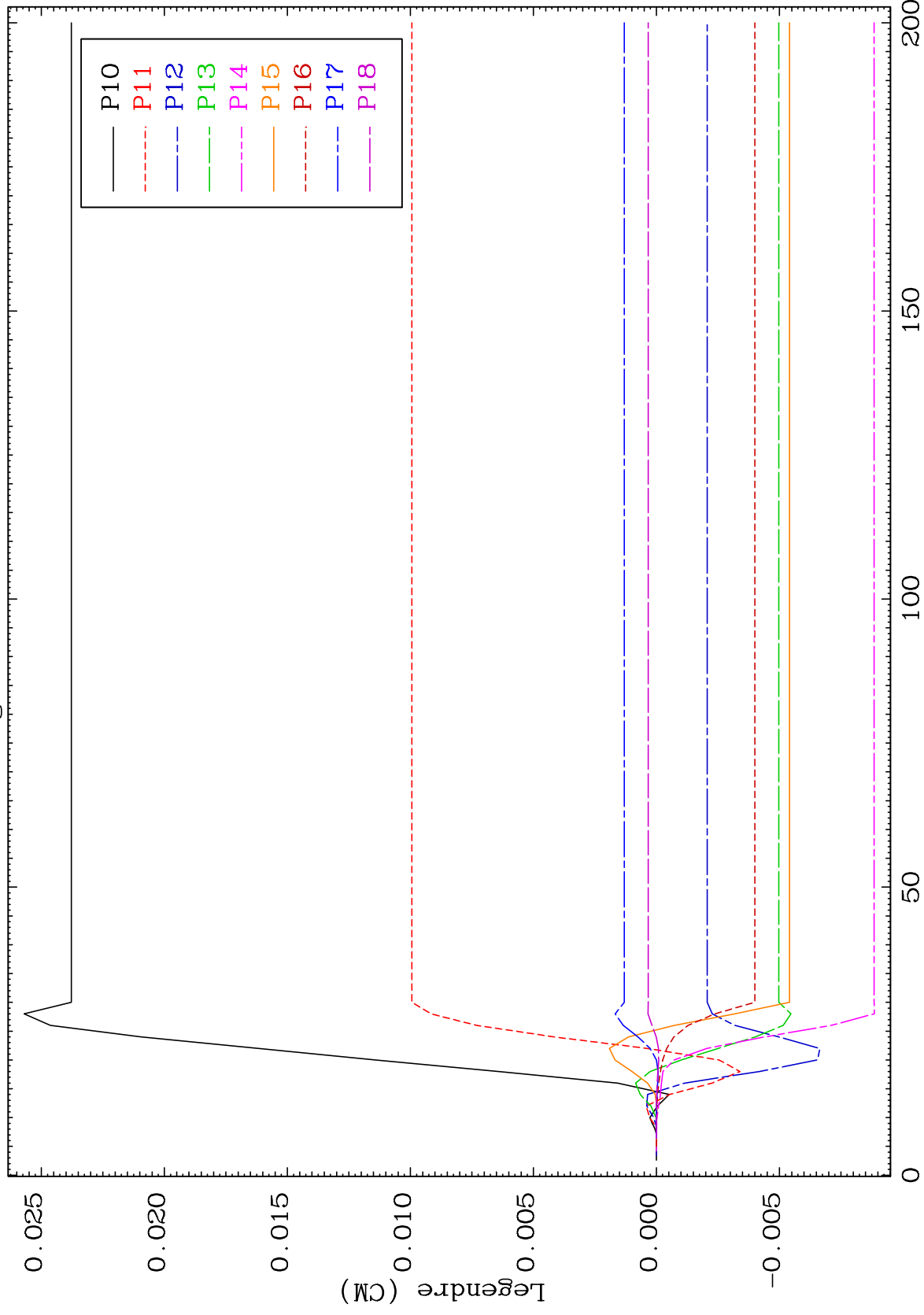
Incident Energy (MeV)

64-Gd-144

MAT 6401

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

64-Gd-144



43

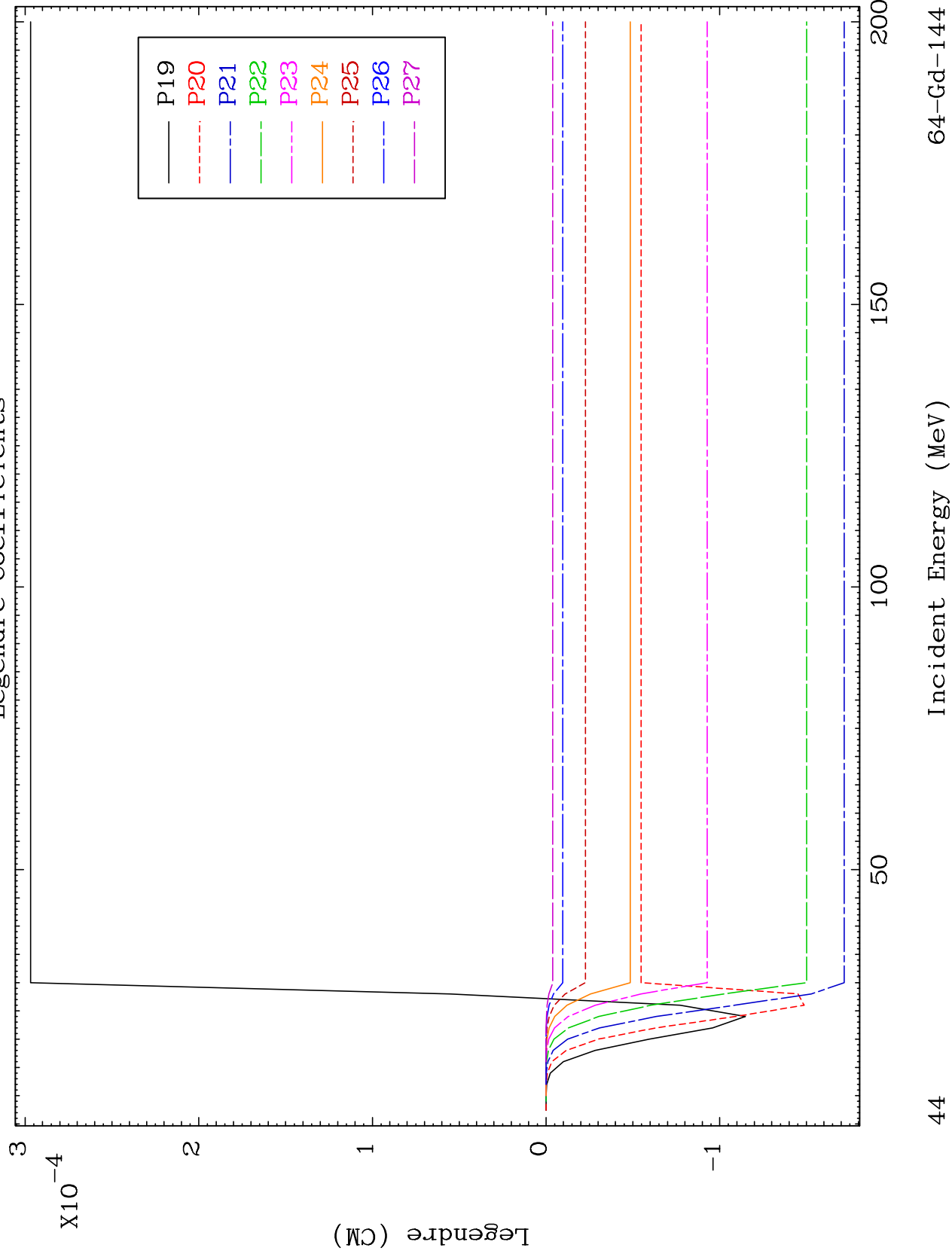
Incident Energy (MeV)

64-Gd-144

MAT 6401

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

64-Gd-144



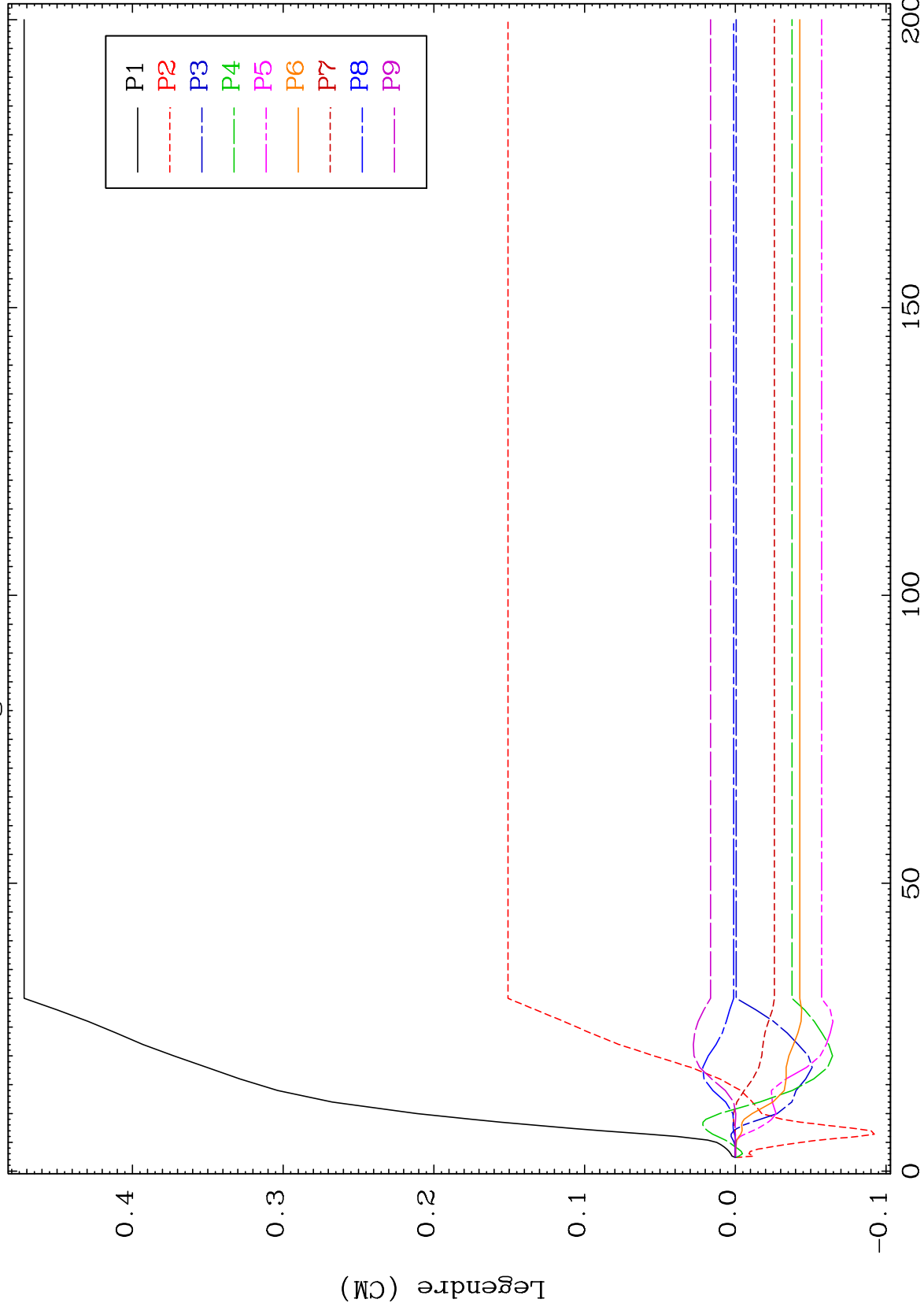
44

64-Gd-144

MAT 6401

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

64-Gd-144



46

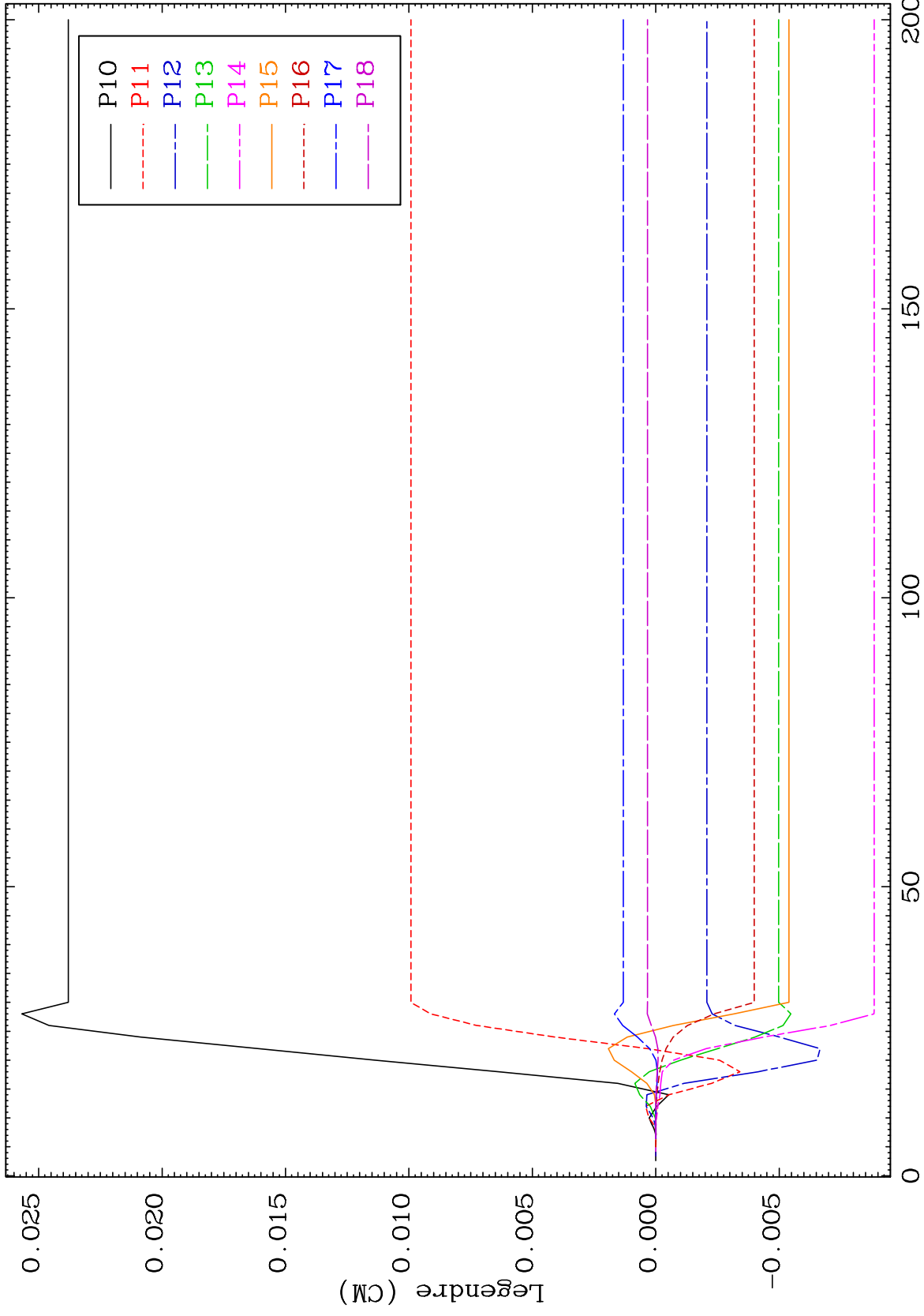
Incident Energy (MeV)

64-Gd-144

MAT 6401

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

64-Gd-144



47

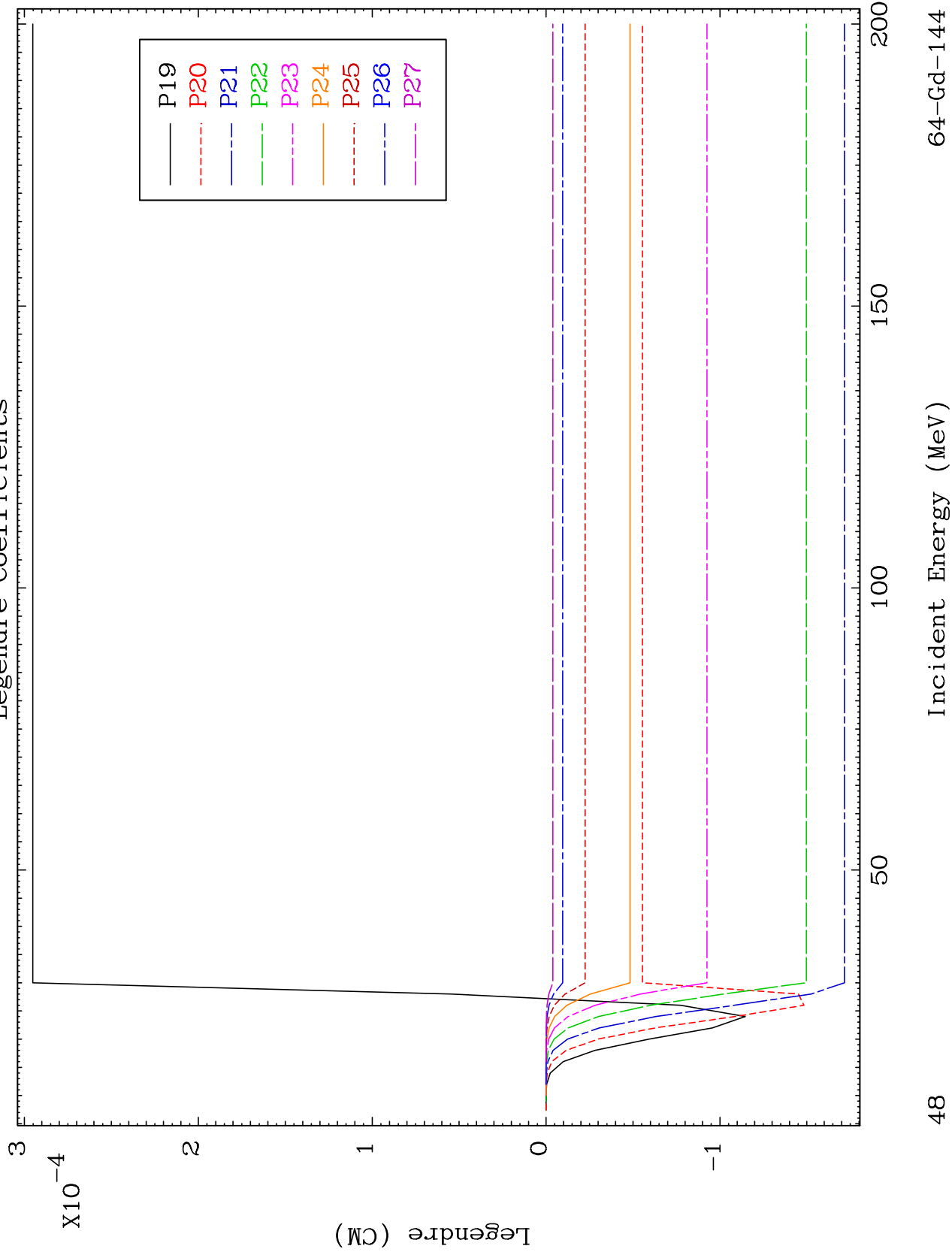
Incident Energy (MeV)

64-Gd-144

MAT 6401

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

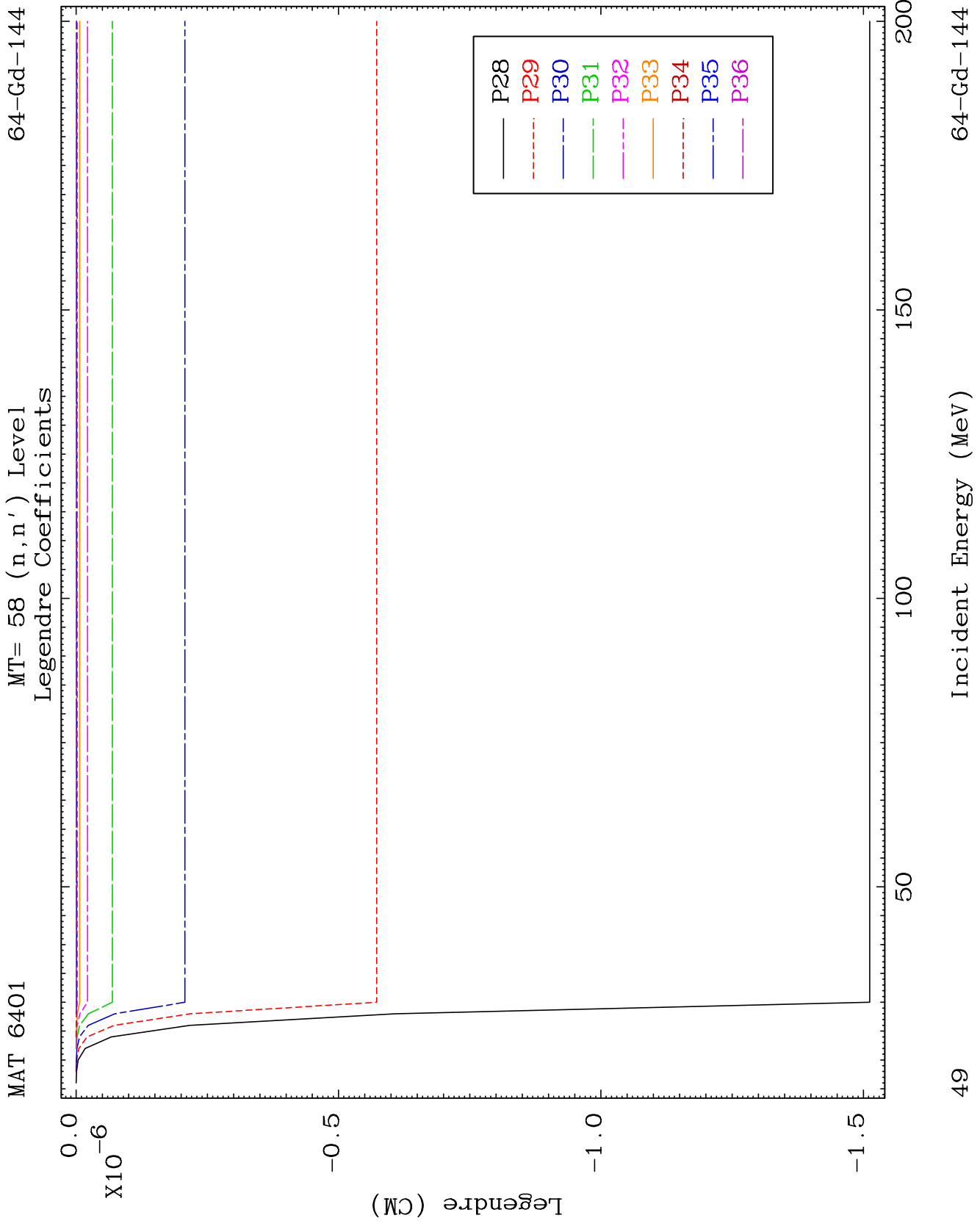
64-Gd-144



48

Incident Energy (MeV)

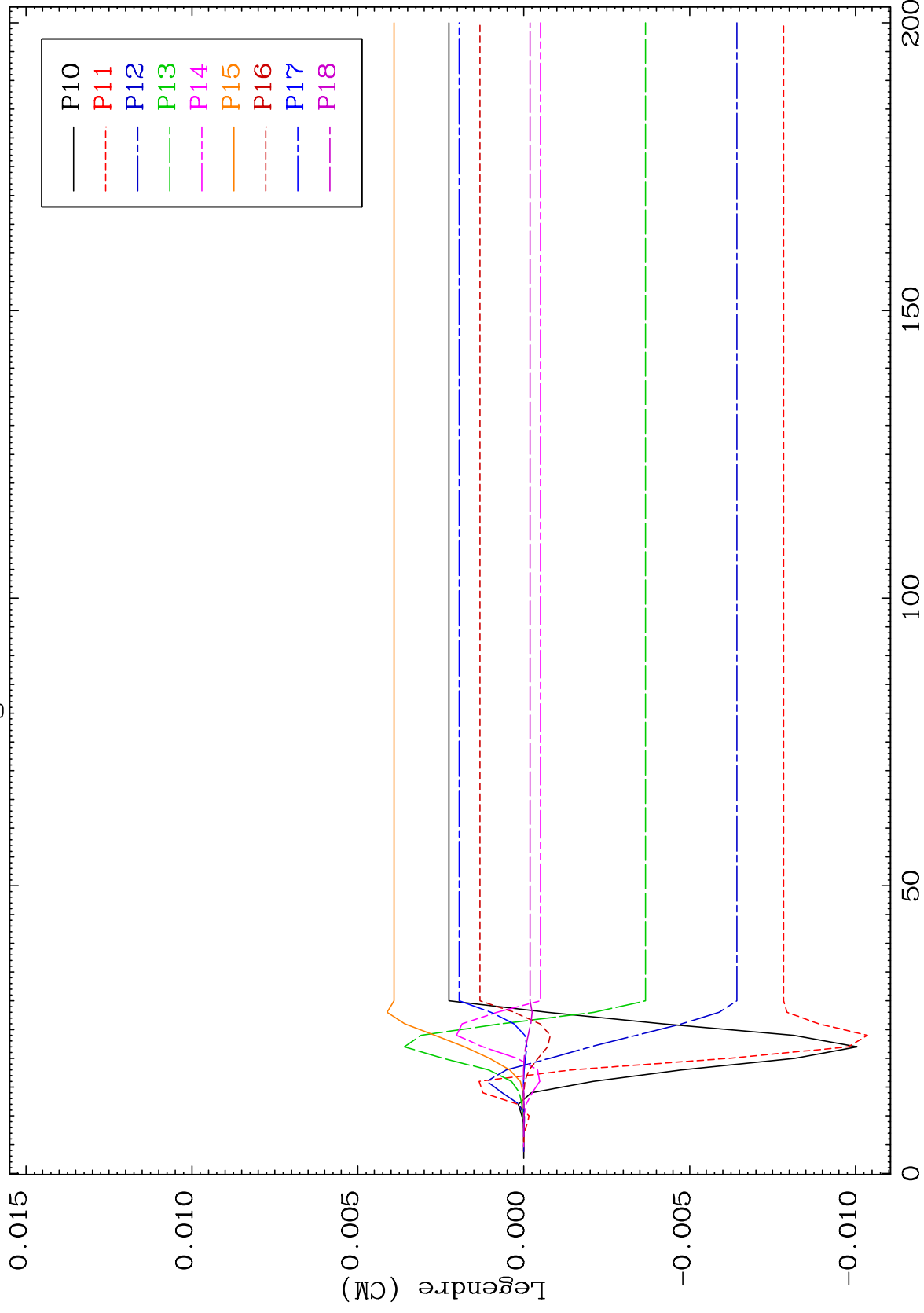
64-Gd-144



MAT 6401

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

64-Gd-144



51

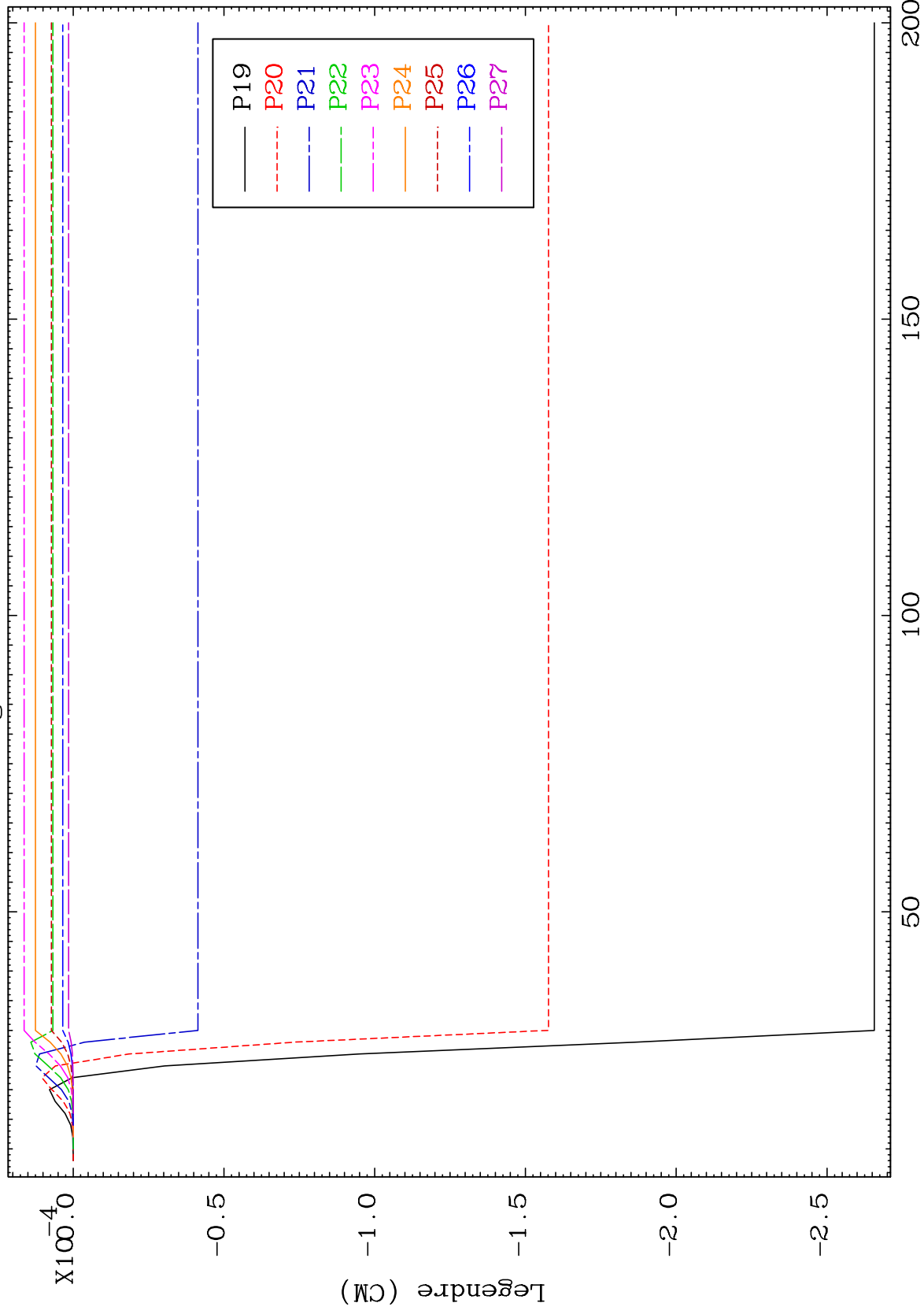
Incident Energy (MeV)

64-Gd-144

MAT 6401

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

64-Gd-144



52

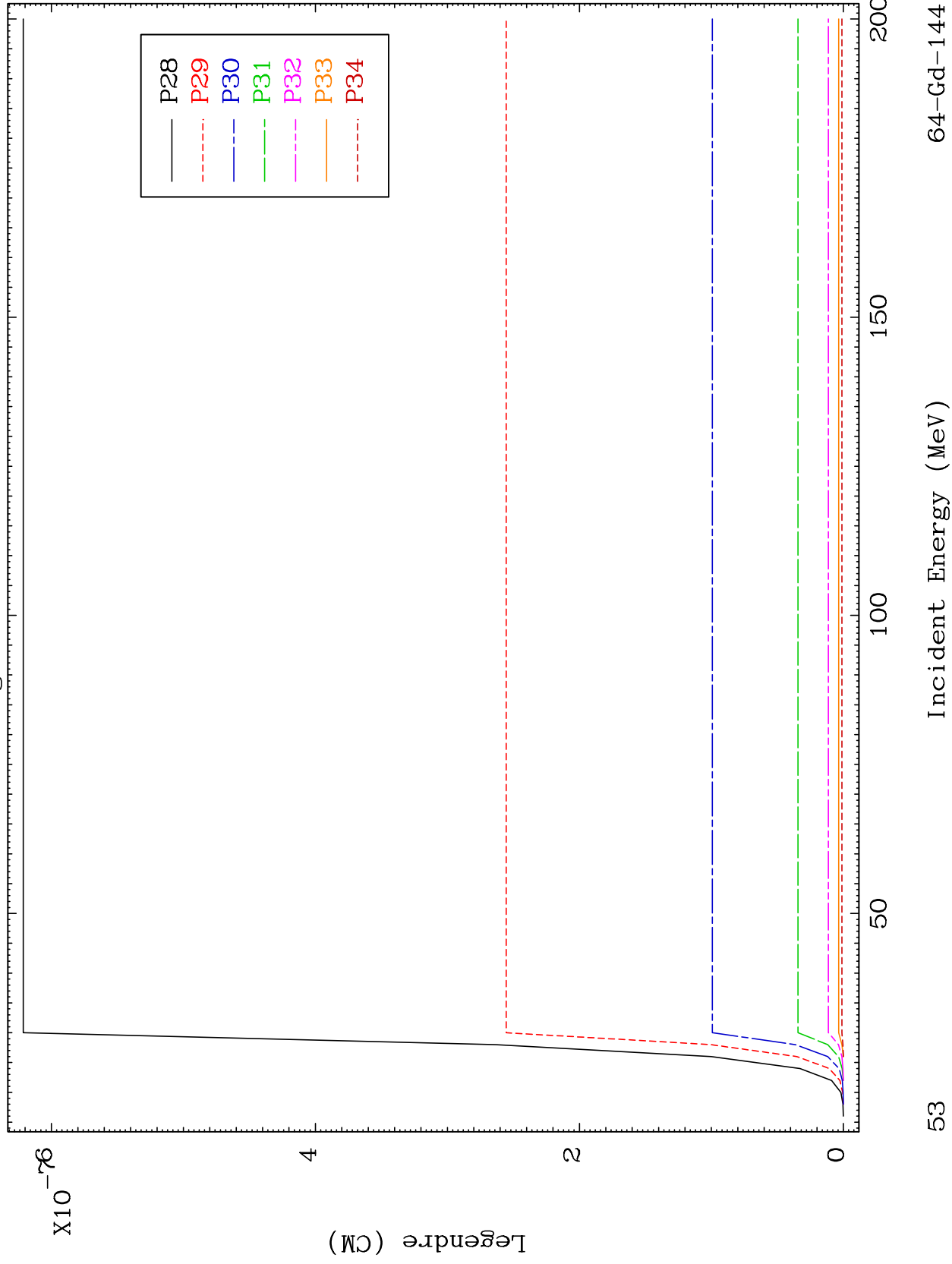
Incident Energy (MeV)

64-Gd-144

MAT 6401

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

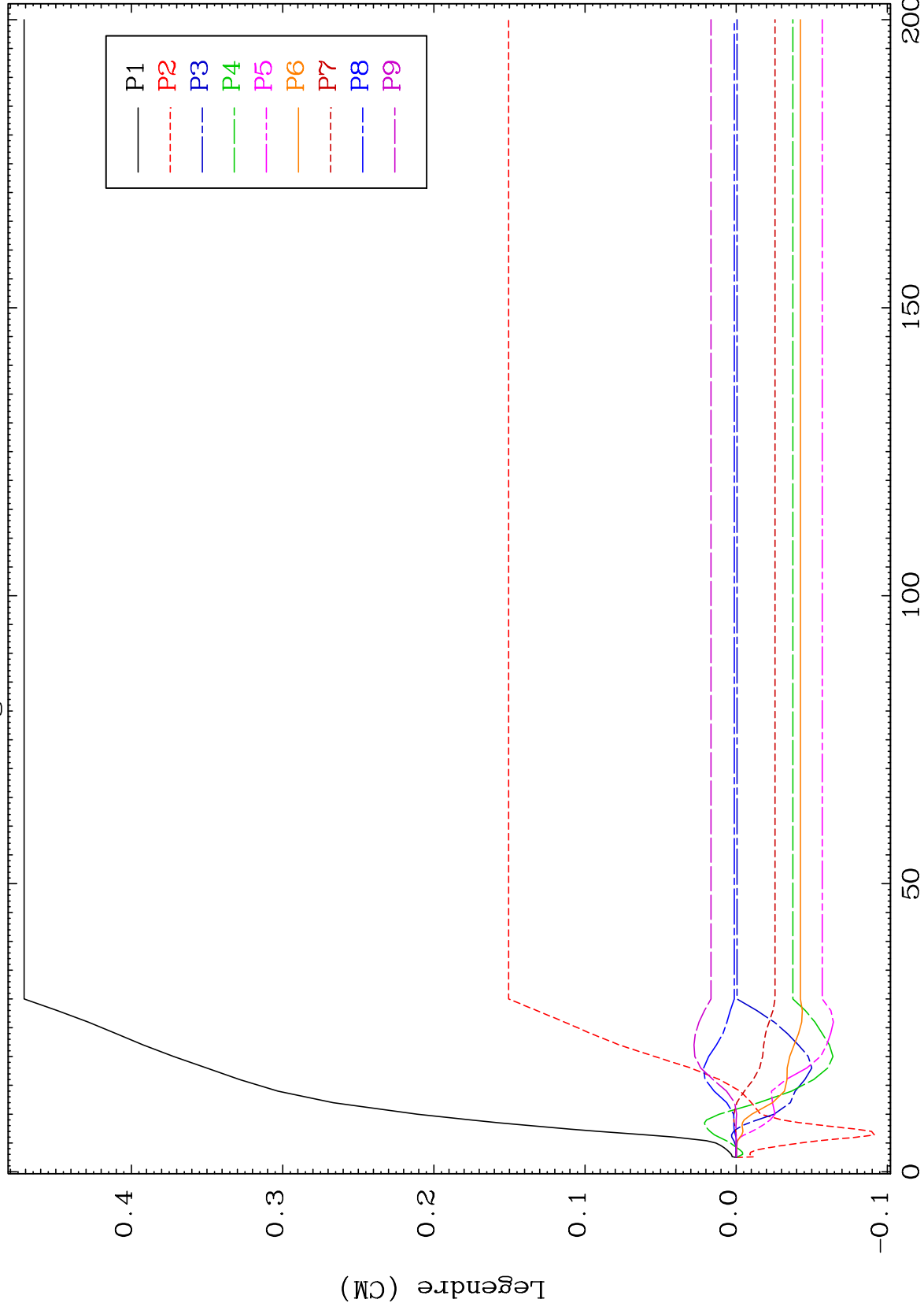
64-Gd-144



MAT 6401

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

64-Gd-144



54

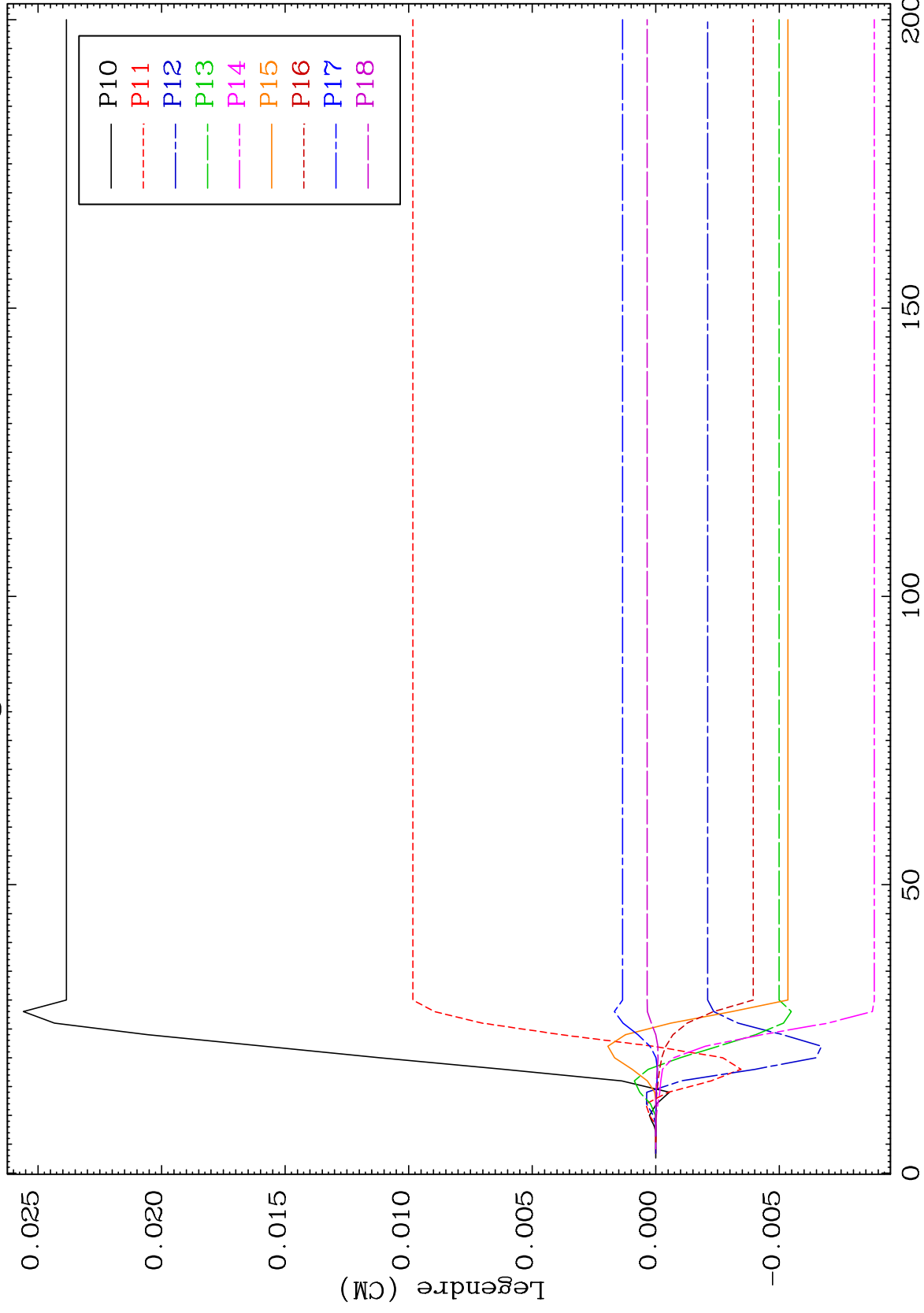
Incident Energy (MeV)

64-Gd-144

MAT 6401

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

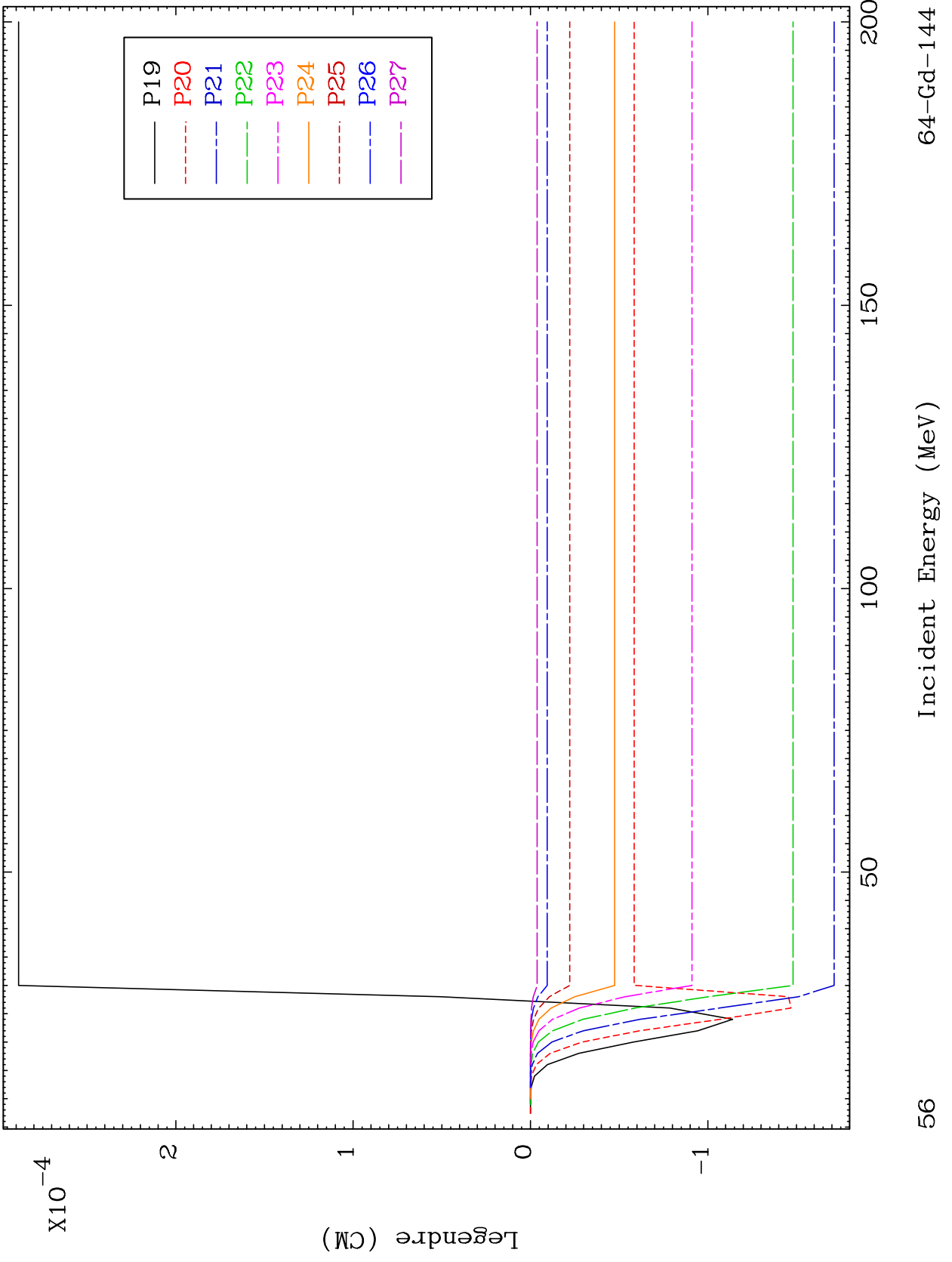
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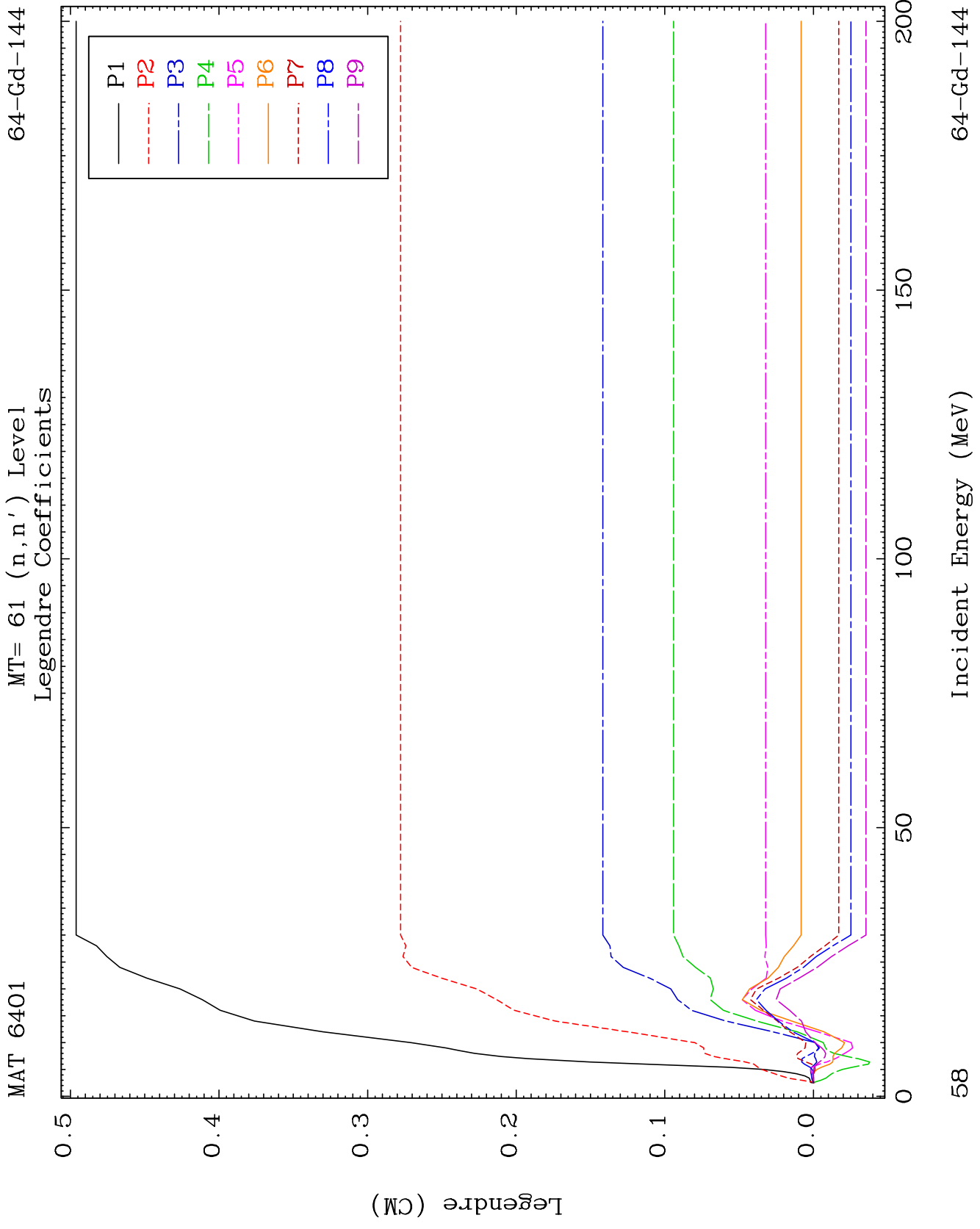


55

Incident Energy (MeV)

64-Gd-144

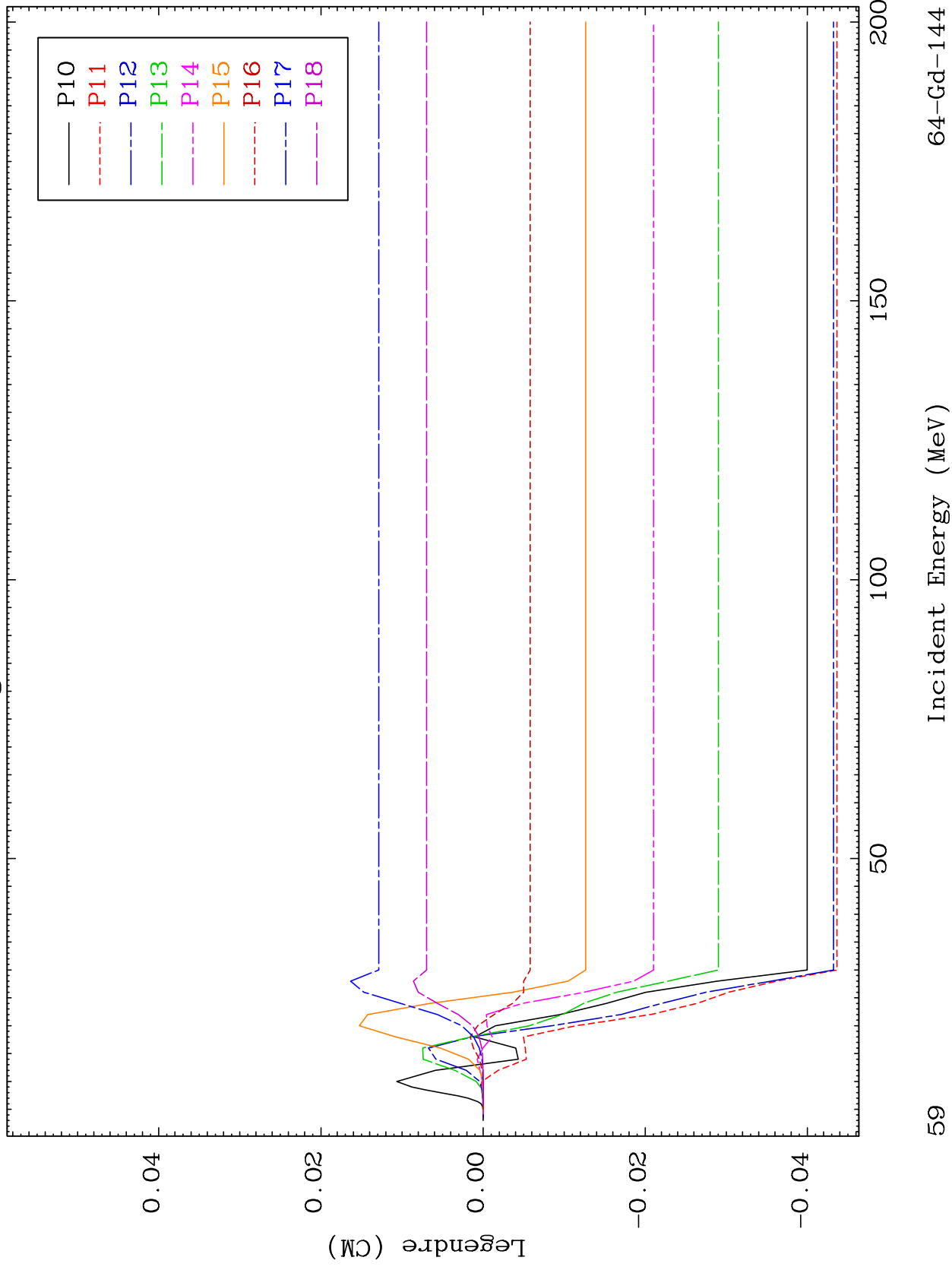




MAT 6401

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

64-Gd-144



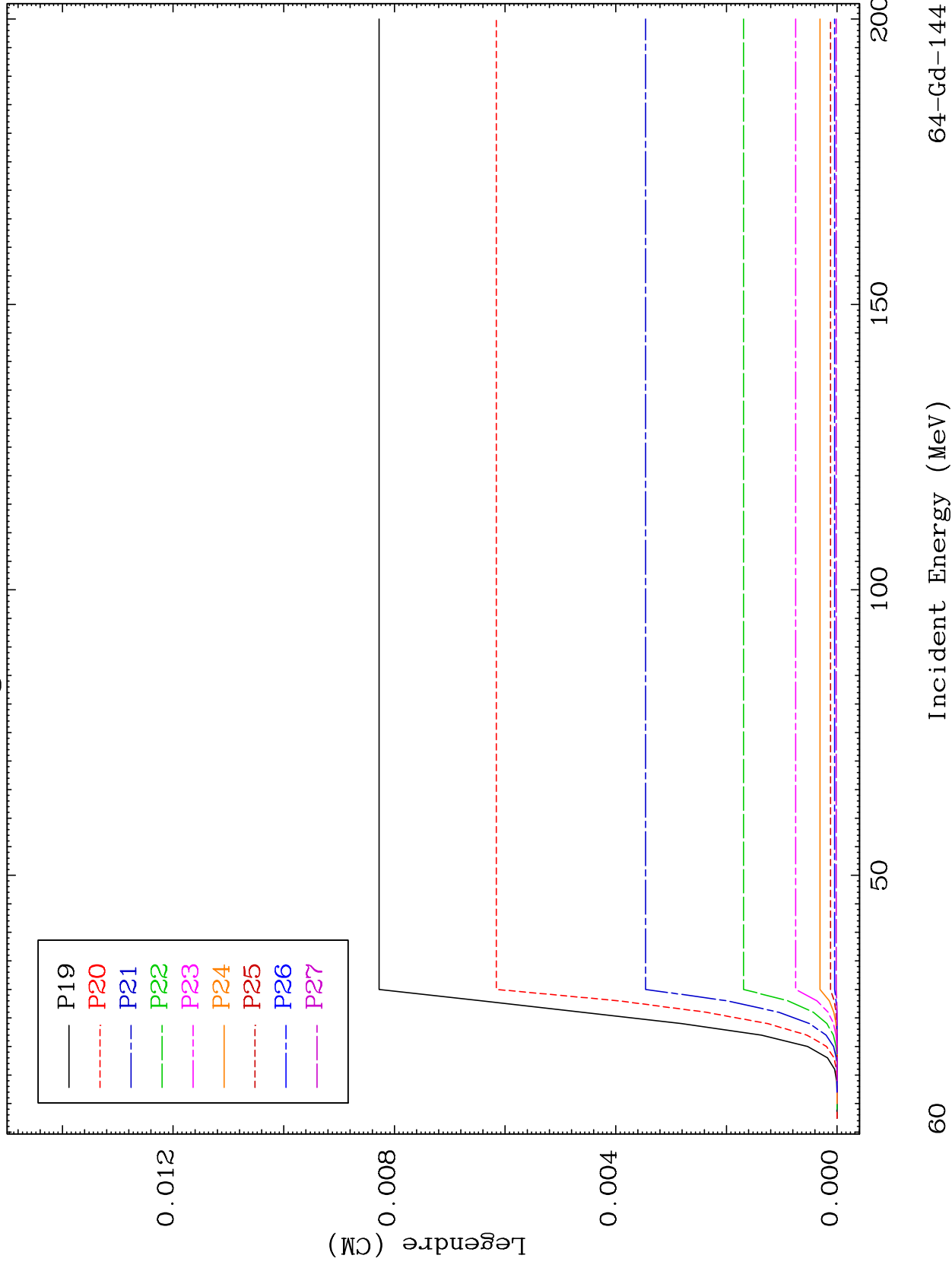
59

64-Gd-144

MAT 6401

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

64-Gd-144



64-Gd-144

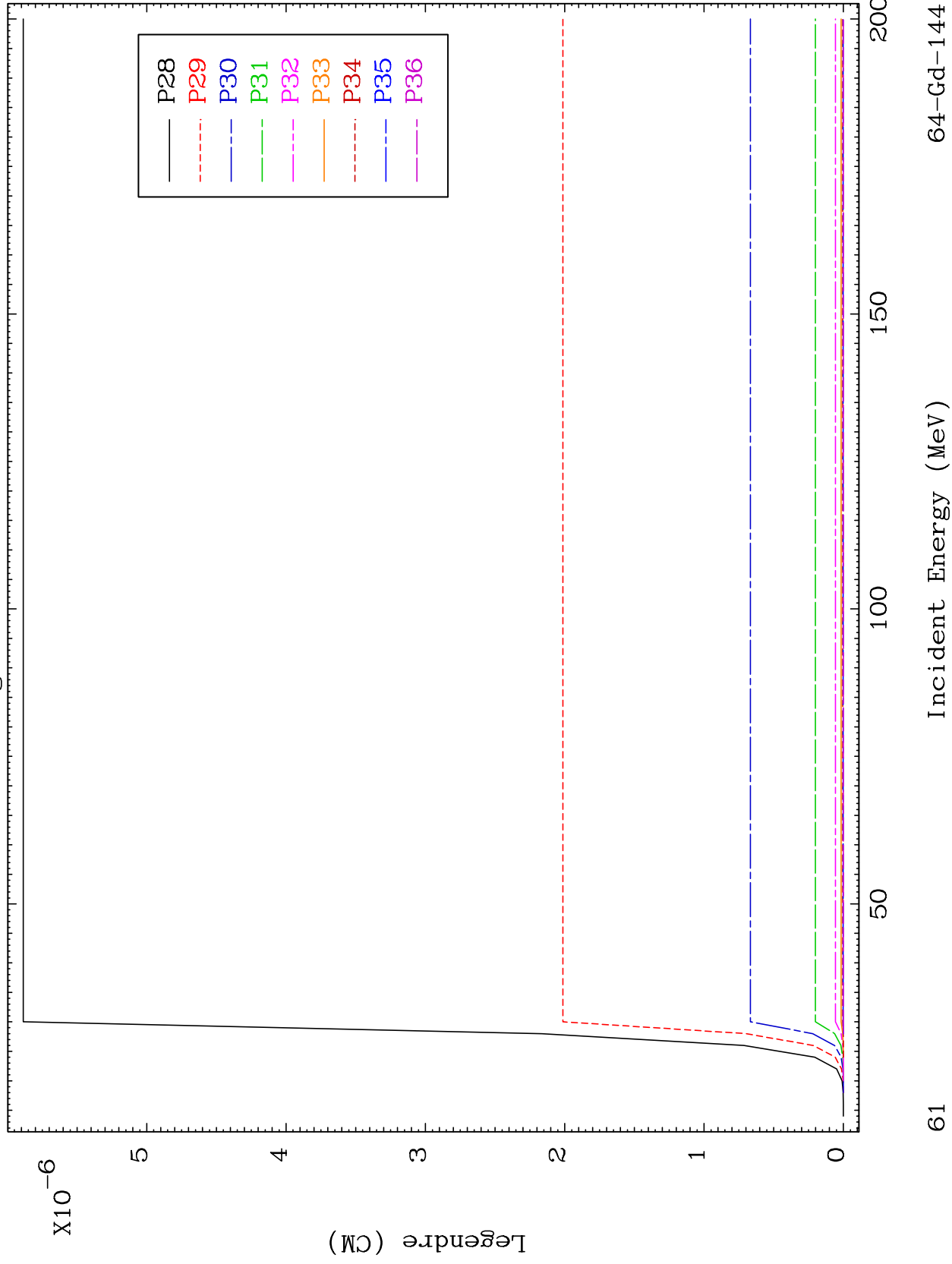
Incident Energy (MeV)

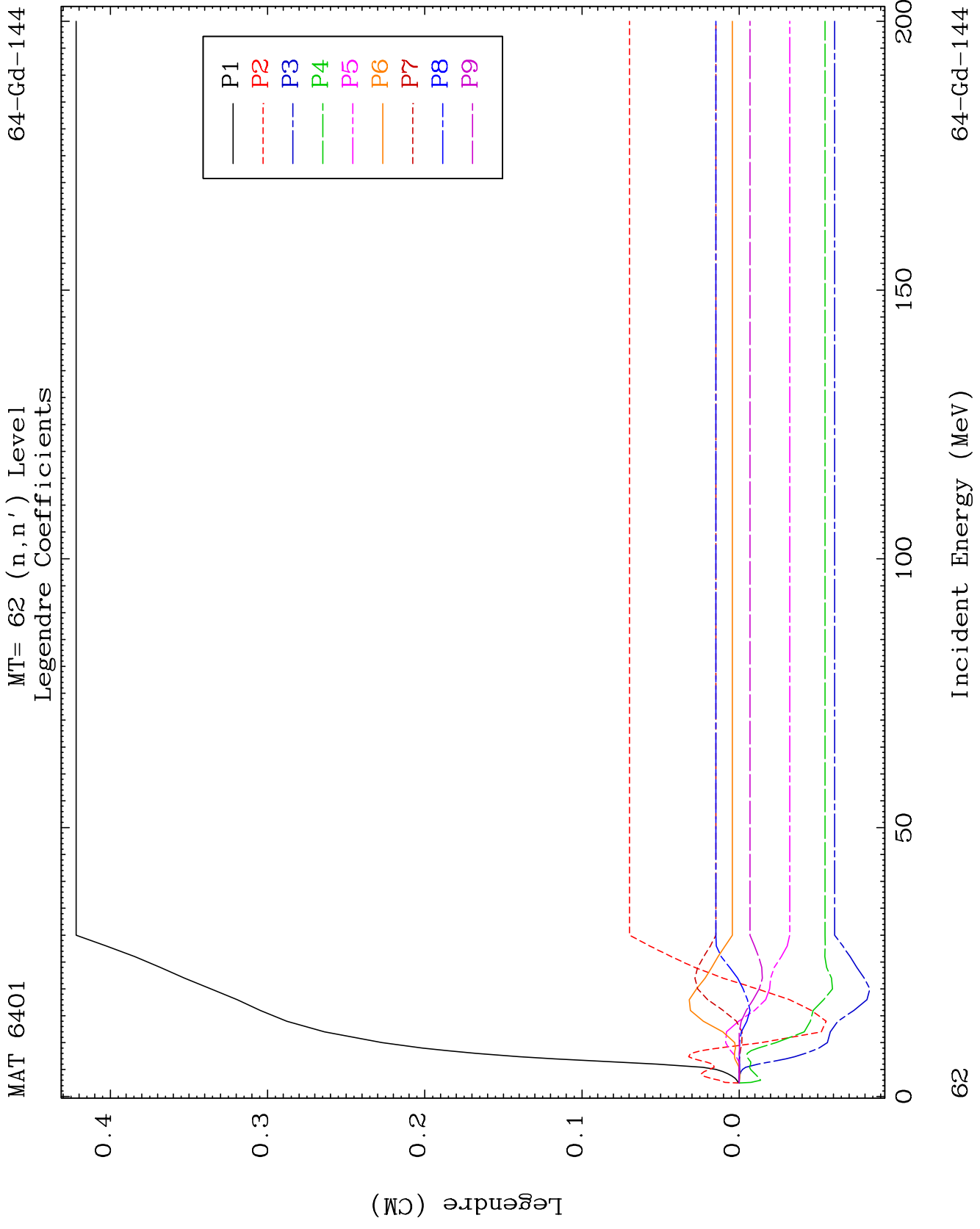
60

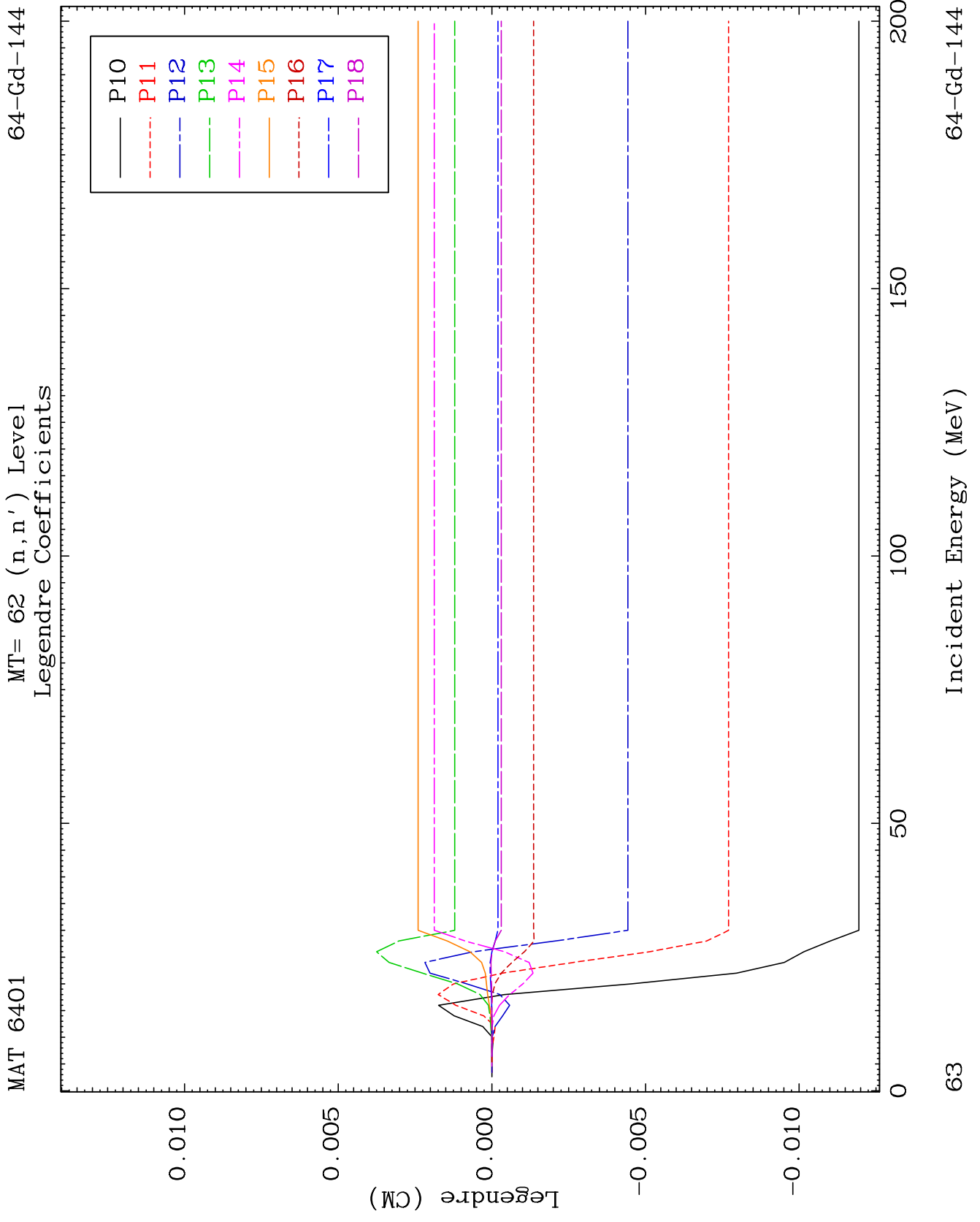
MAT 6401

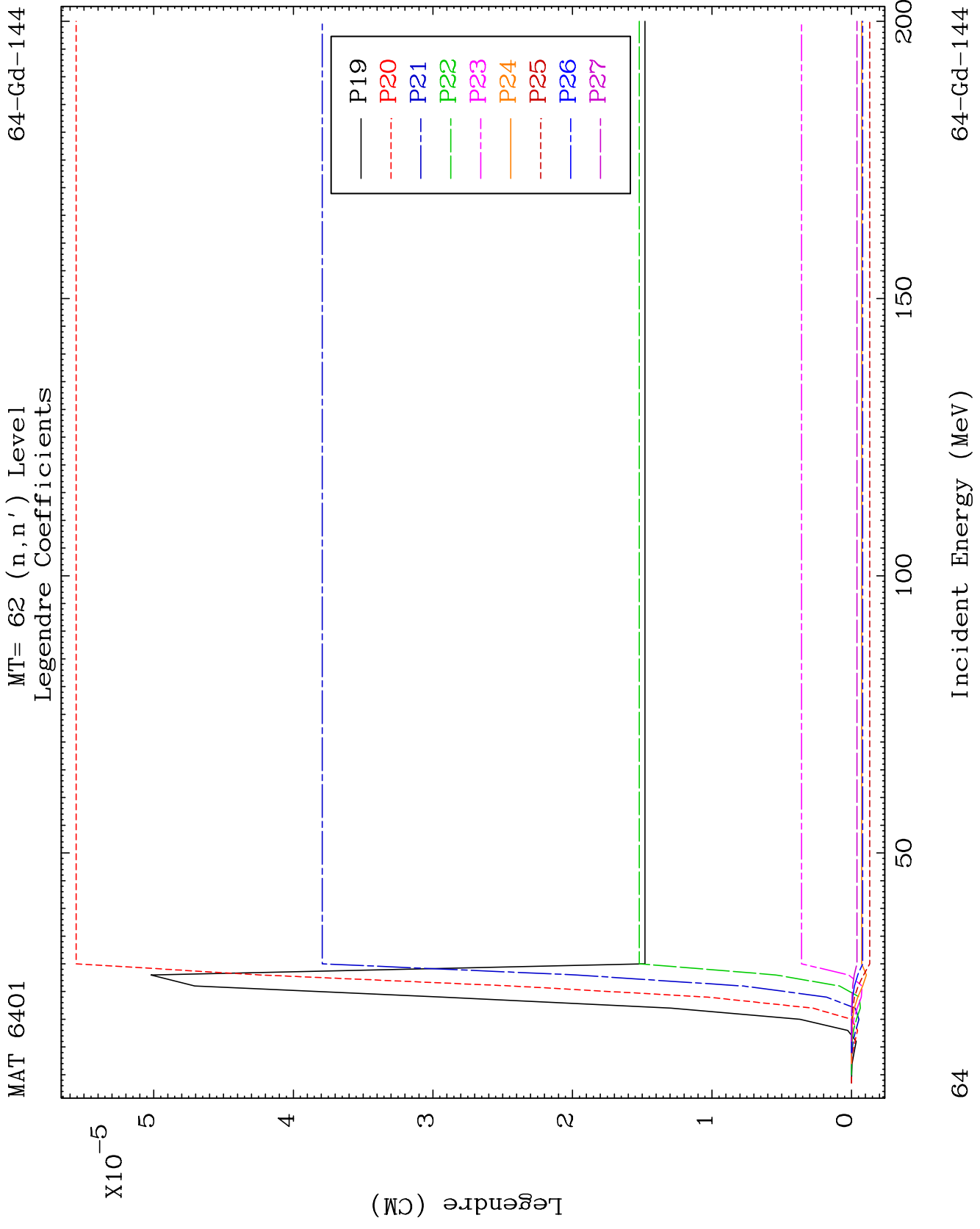
MT= 61 (n,n') Level
Legendre Coefficients

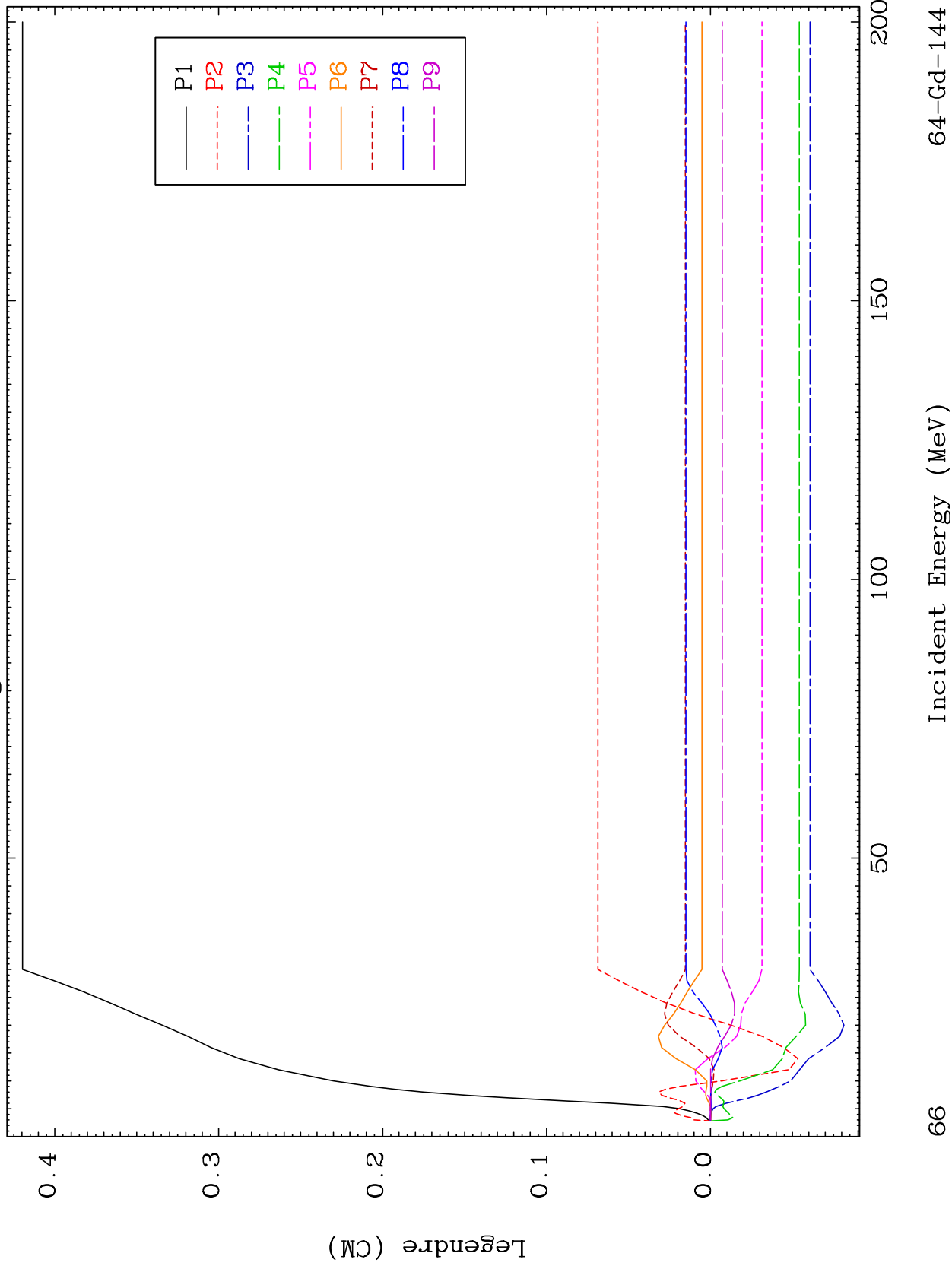
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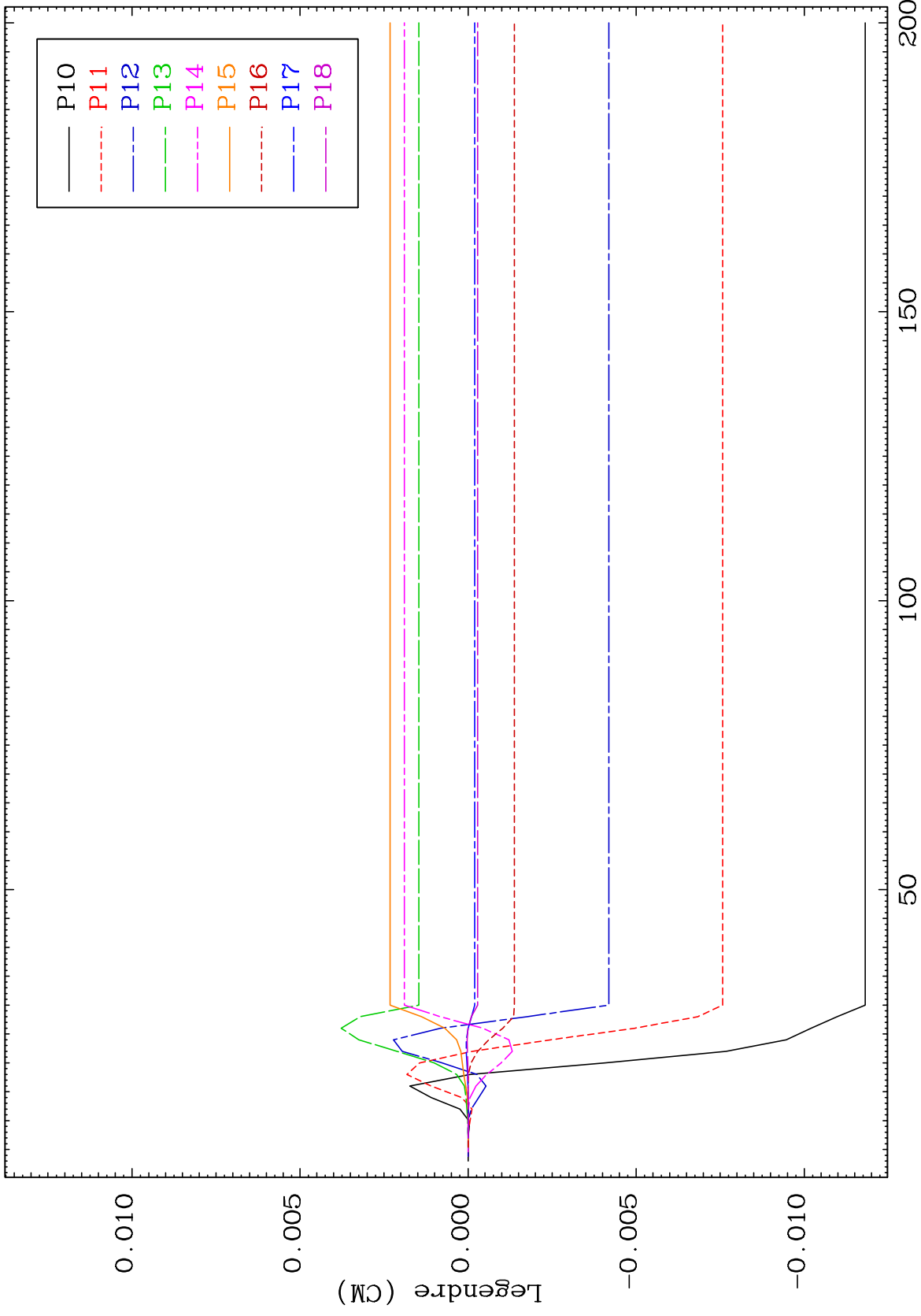




MAT 6401

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

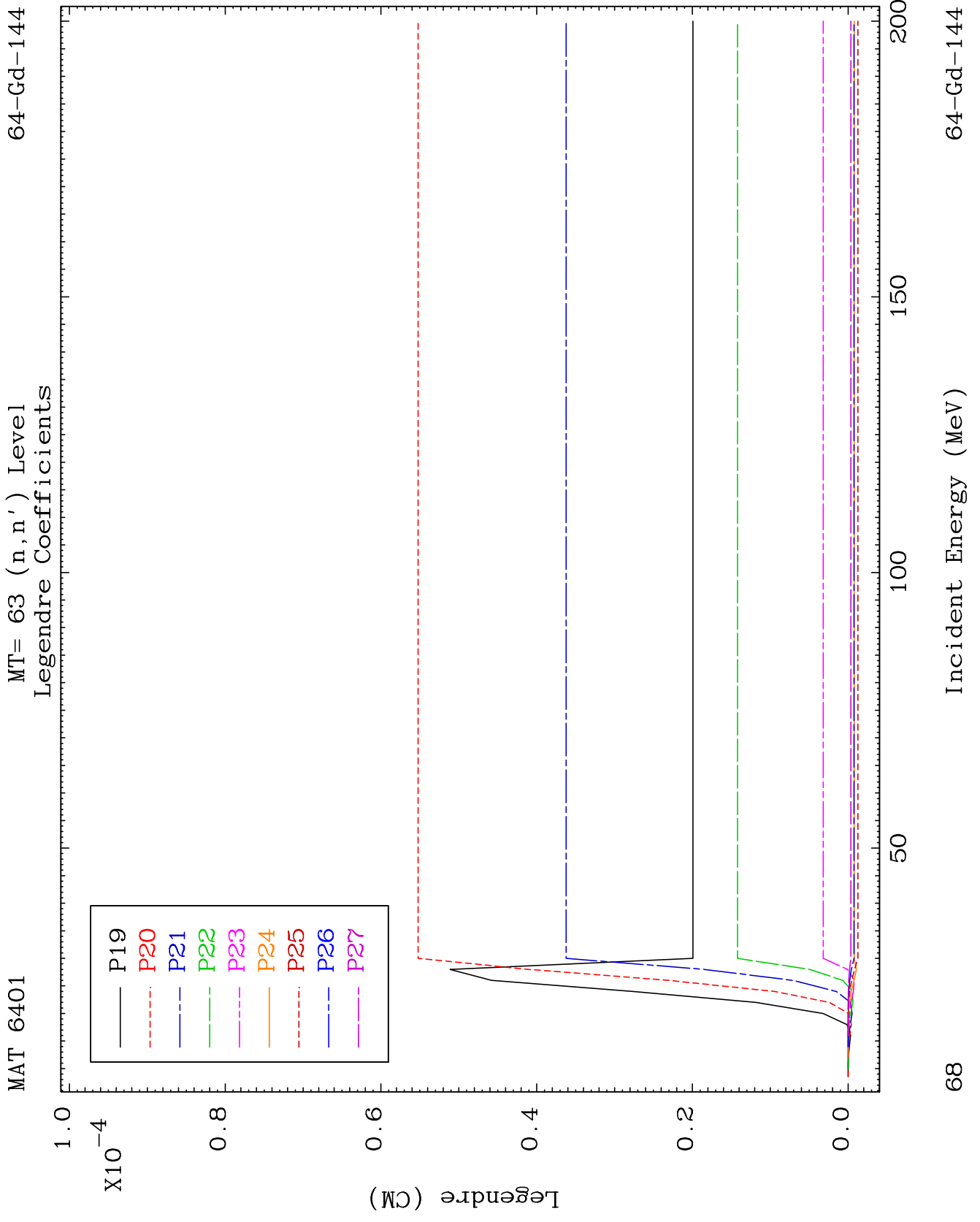
64-Gd-144



67

Incident Energy (MeV)

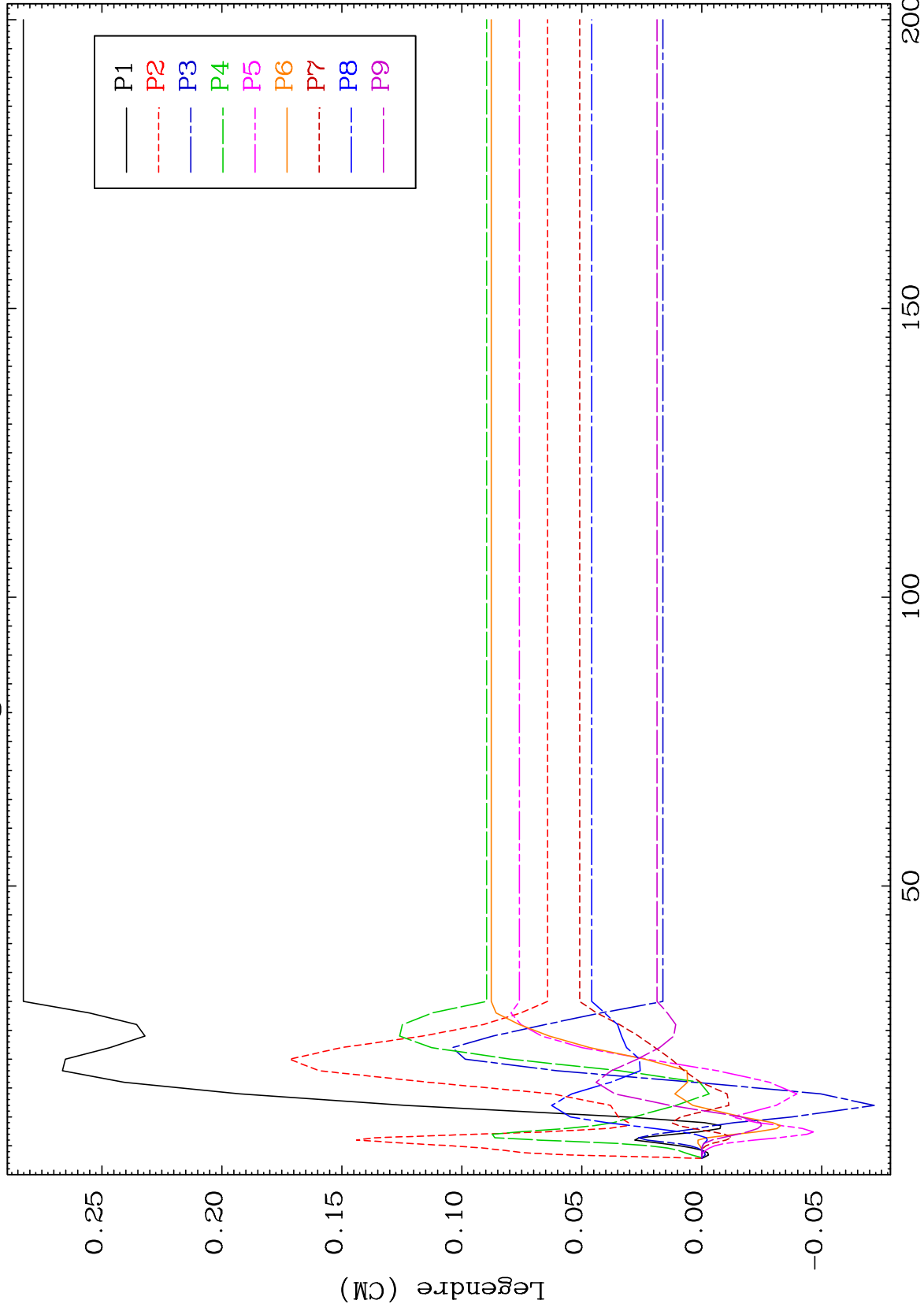
64-Gd-144



MAT 6401

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

64-Gd-144



70

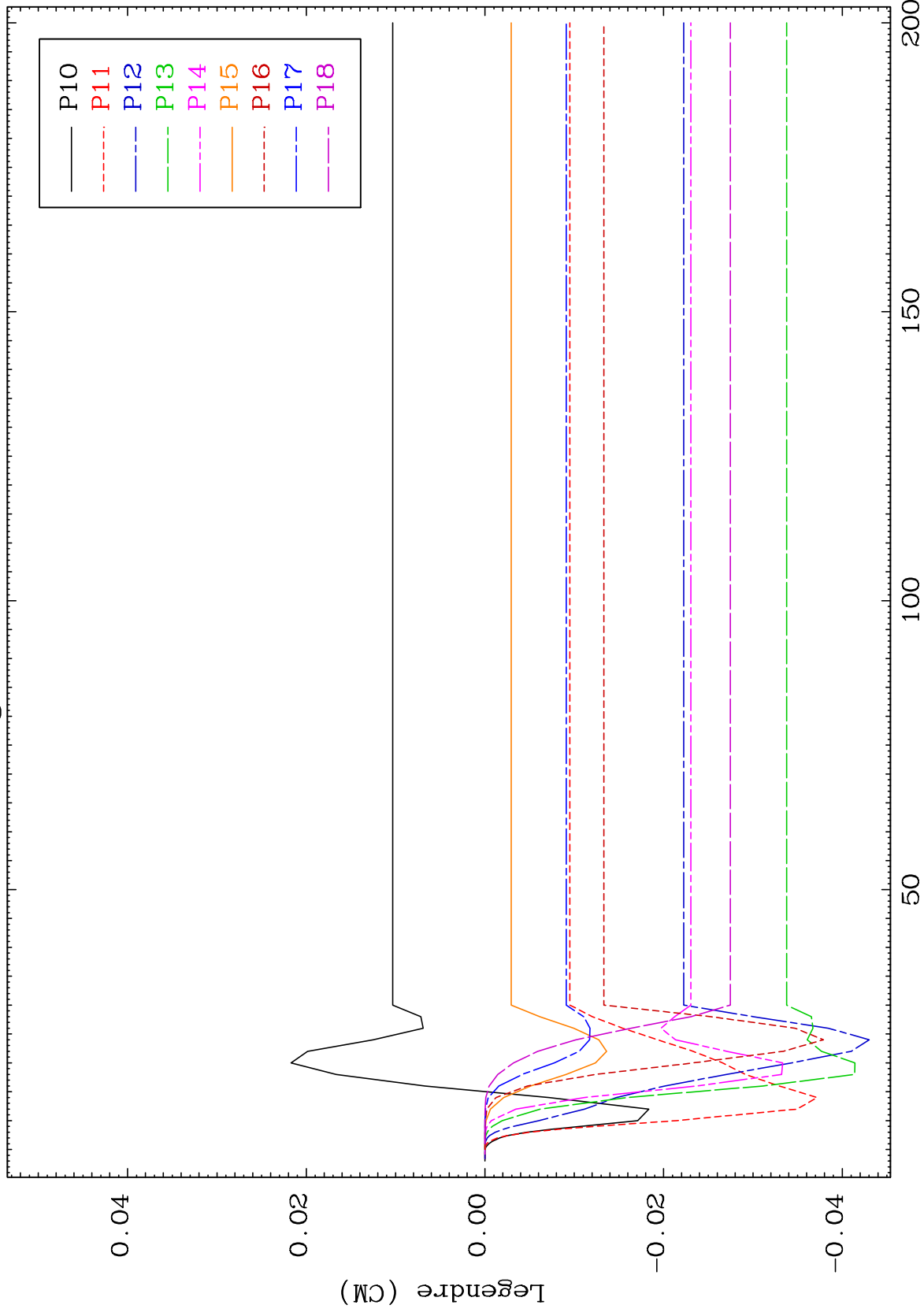
Incident Energy (MeV)

64-Gd-144

MAT 6401

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

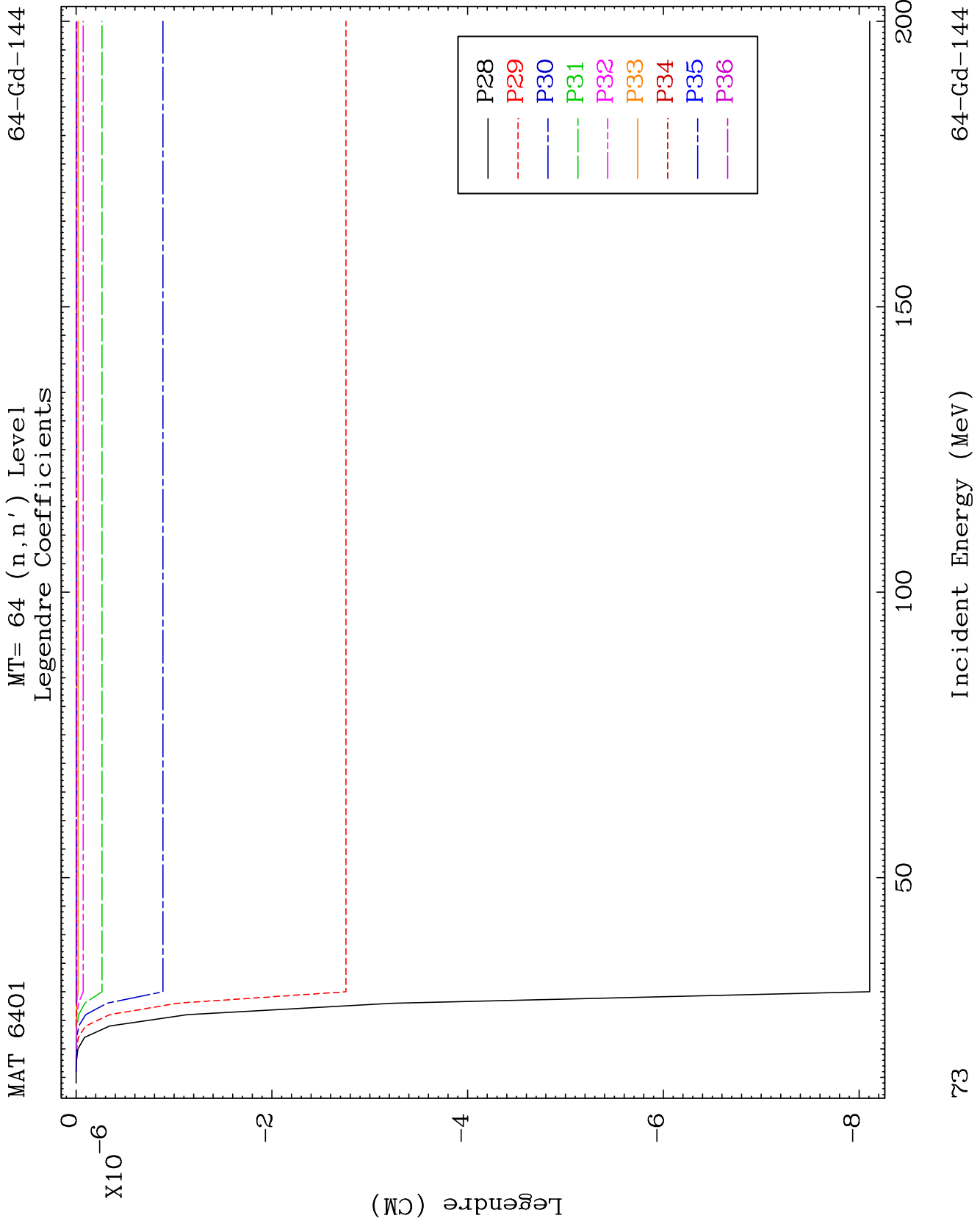
64-Gd-144



71

Incident Energy (MeV)

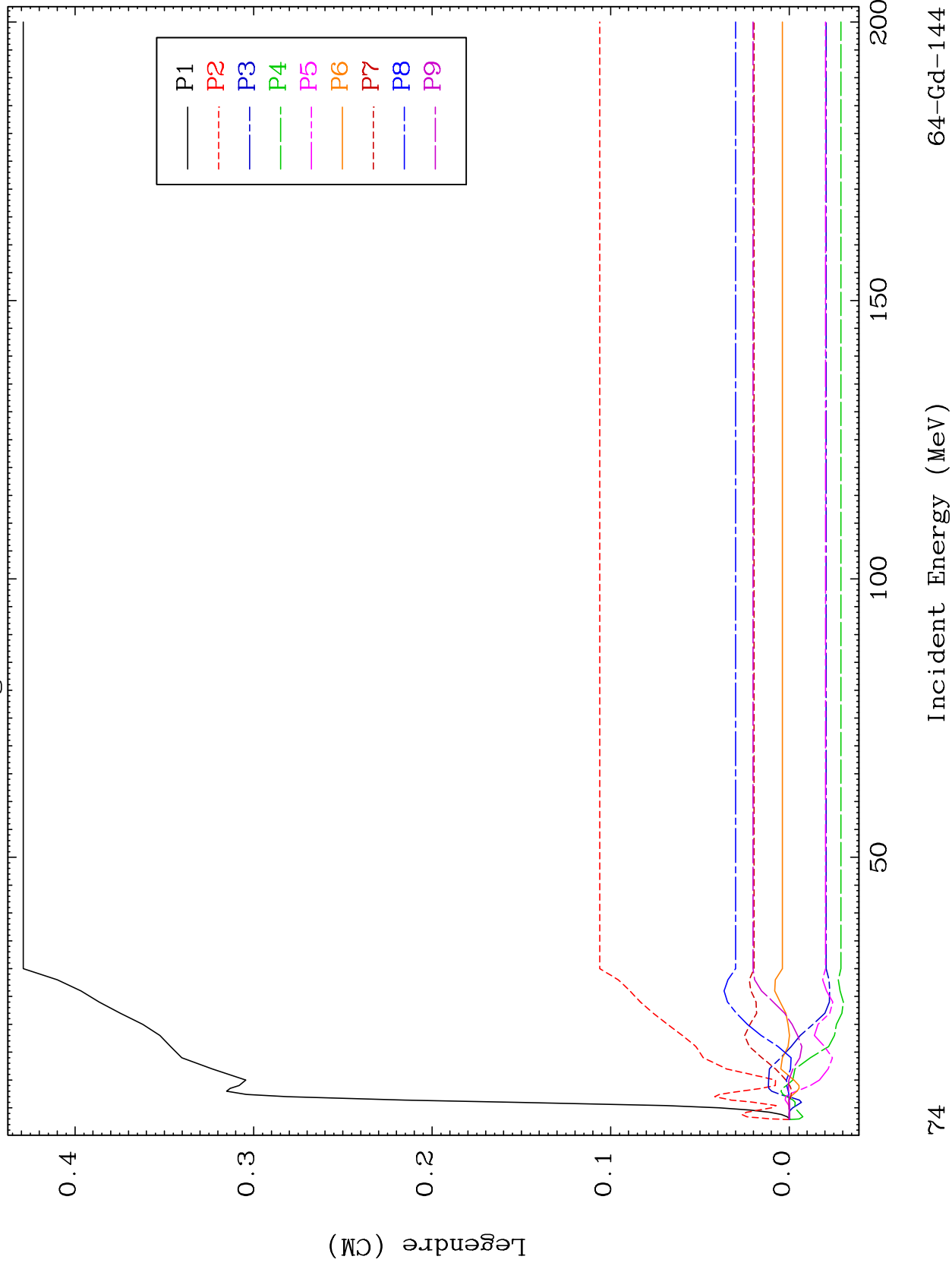
64-Gd-144



MAT 6401

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

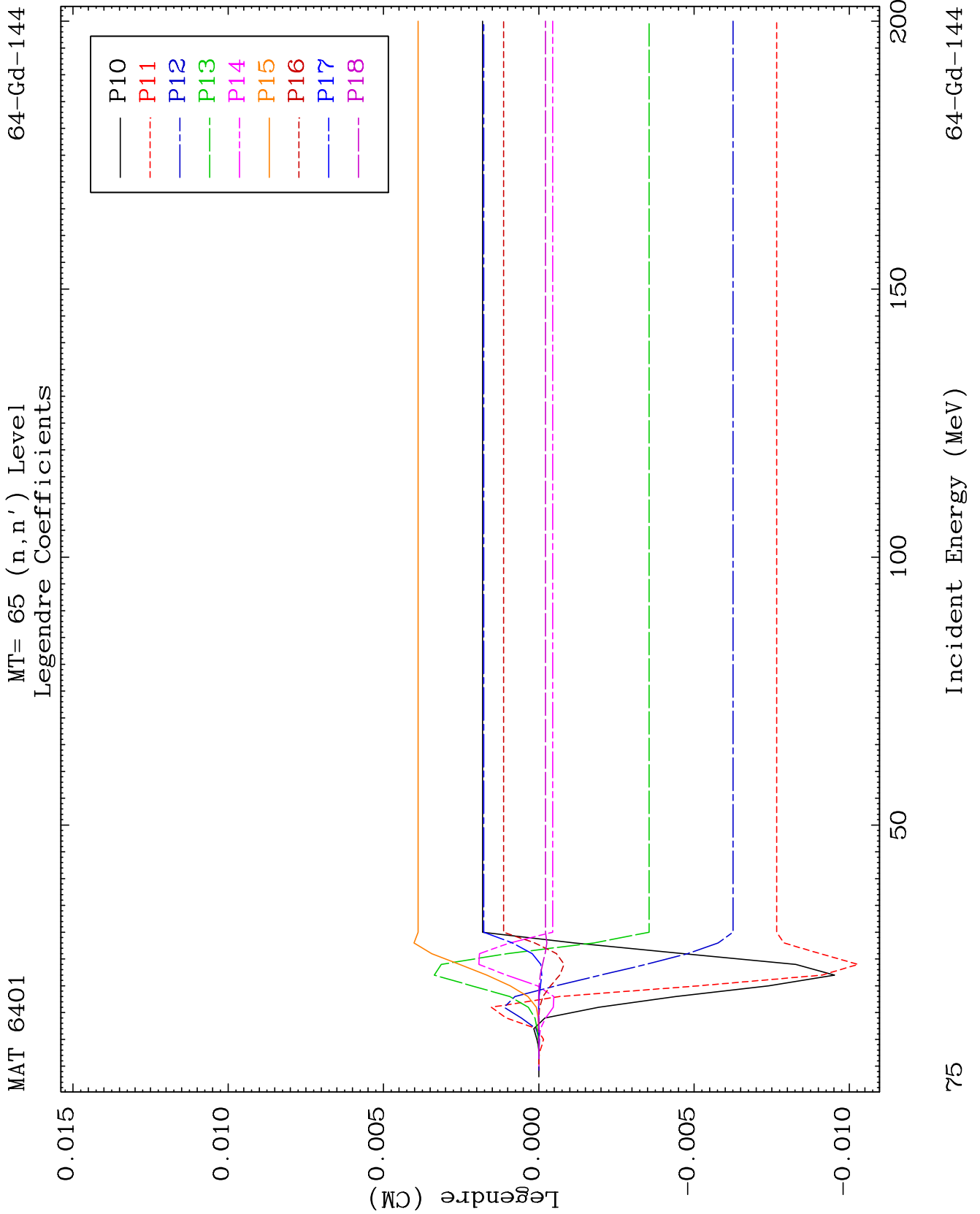
64-Gd-144

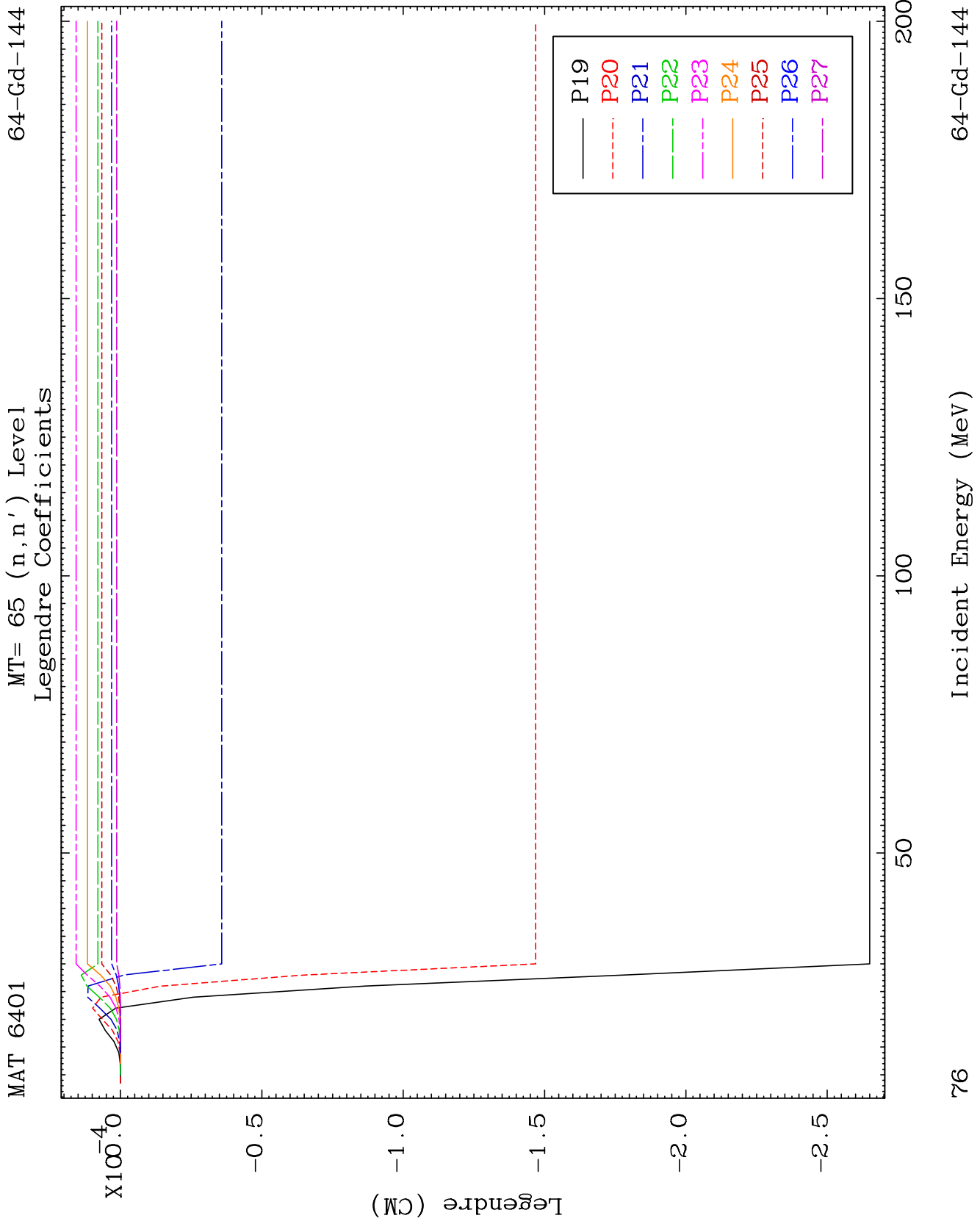


74

Incident Energy (MeV)

64-Gd-144

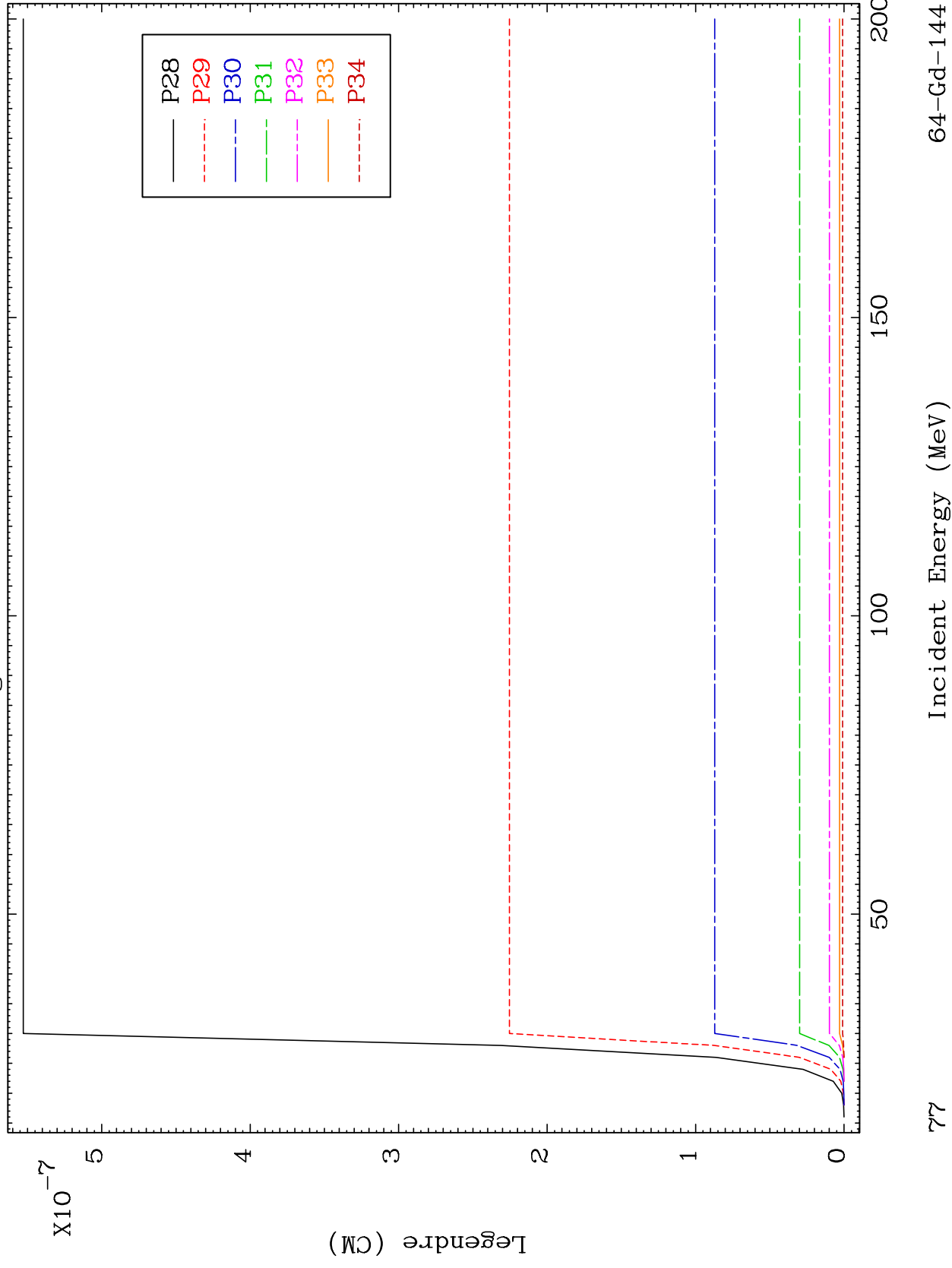




MAT 6401

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

64-Gd-144



77

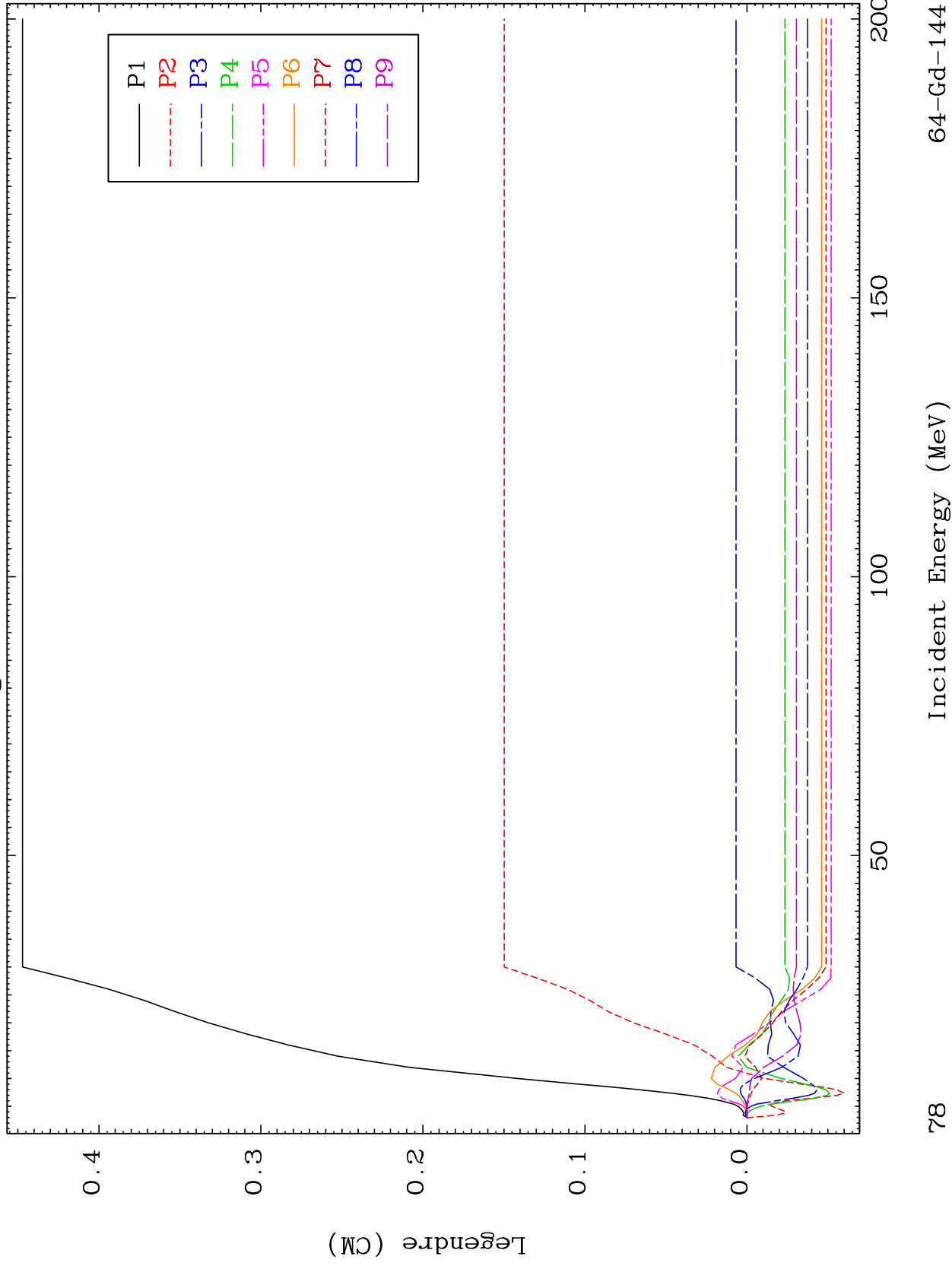
Incident Energy (MeV)

64-Gd-144

MAT 6401

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

64-Gd-144



78

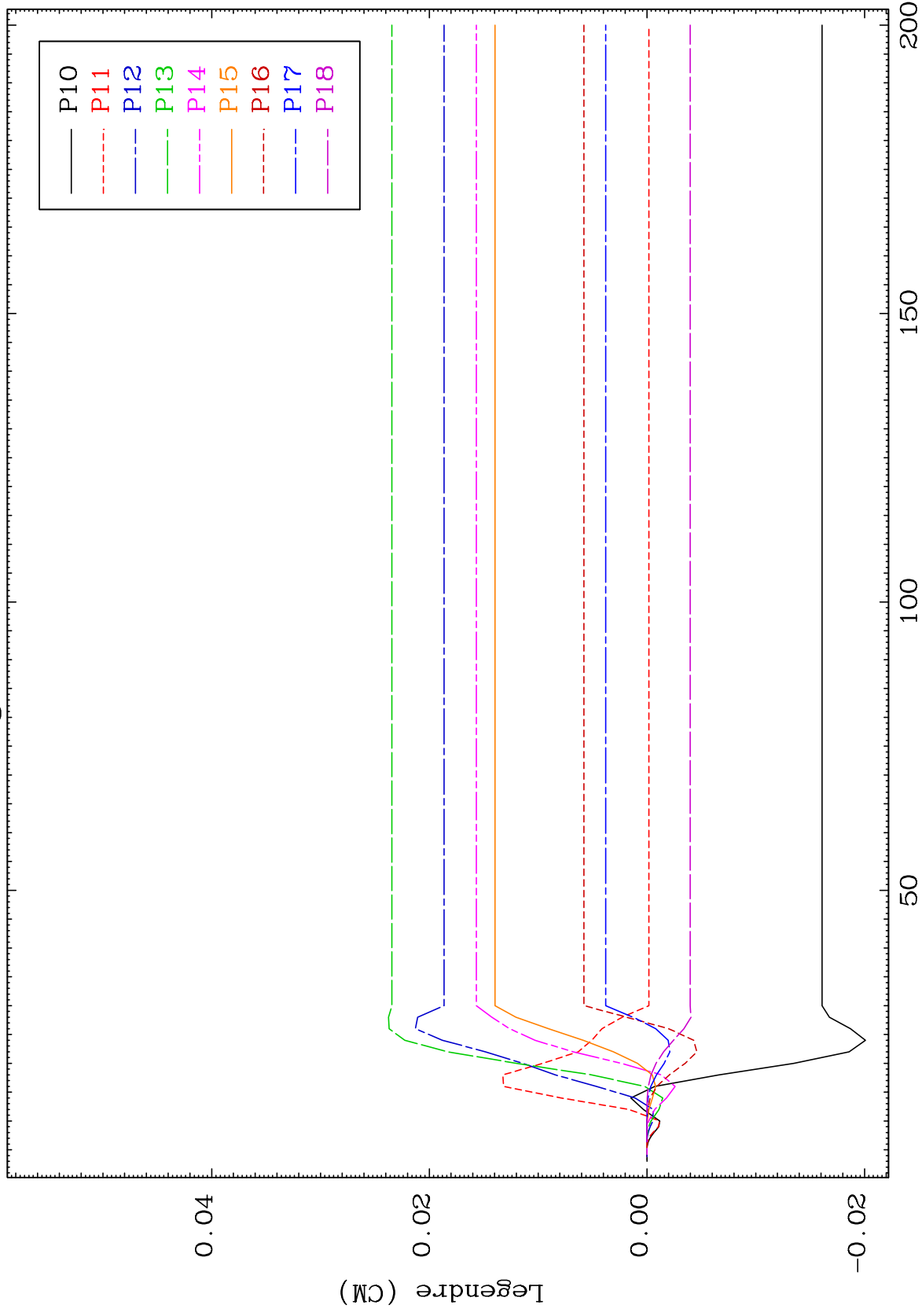
Incident Energy (MeV)

64-Gd-144

MAT 6401

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

64-Gd-144



79

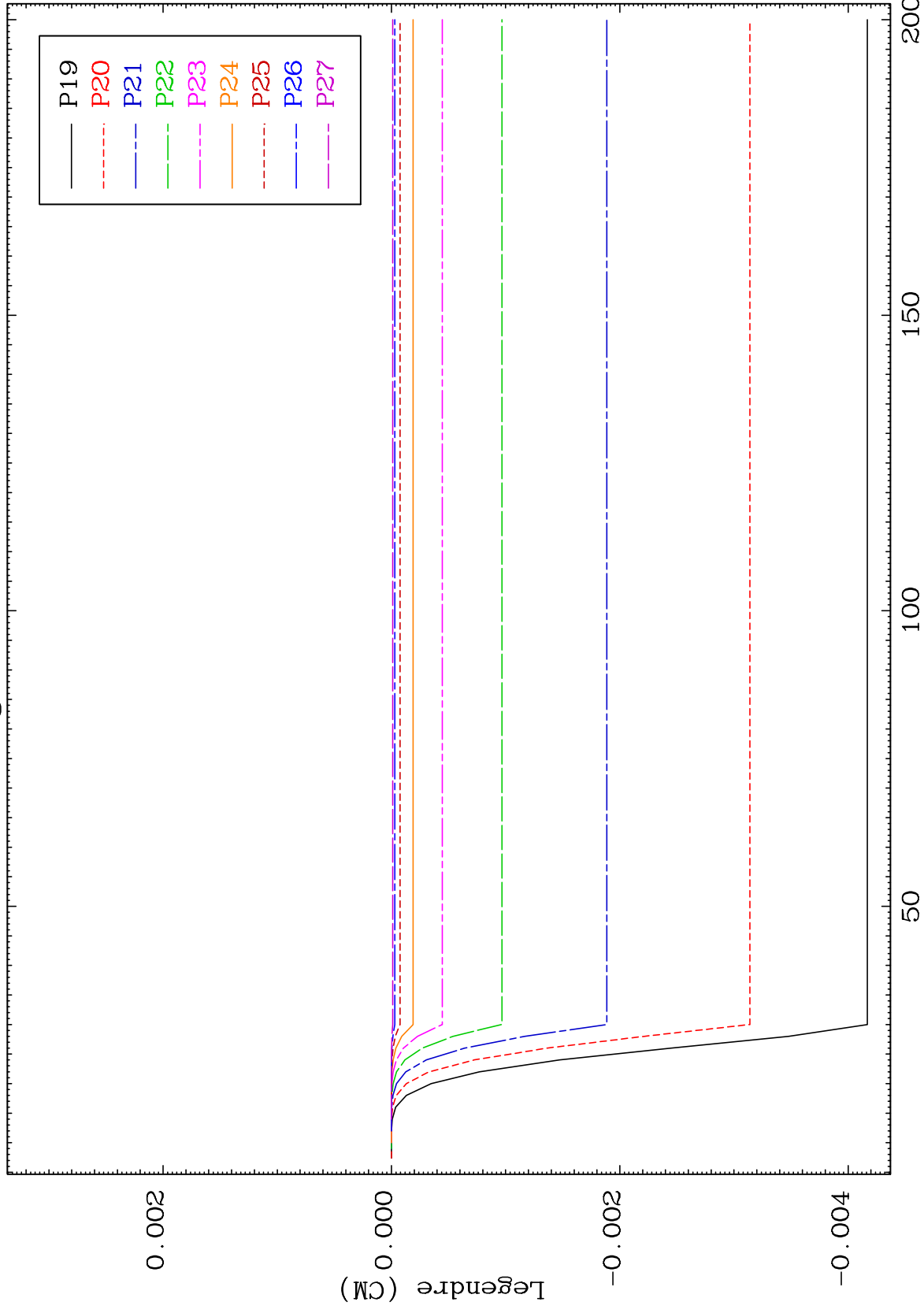
Incident Energy (MeV)

64-Gd-144

MAT 6401

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

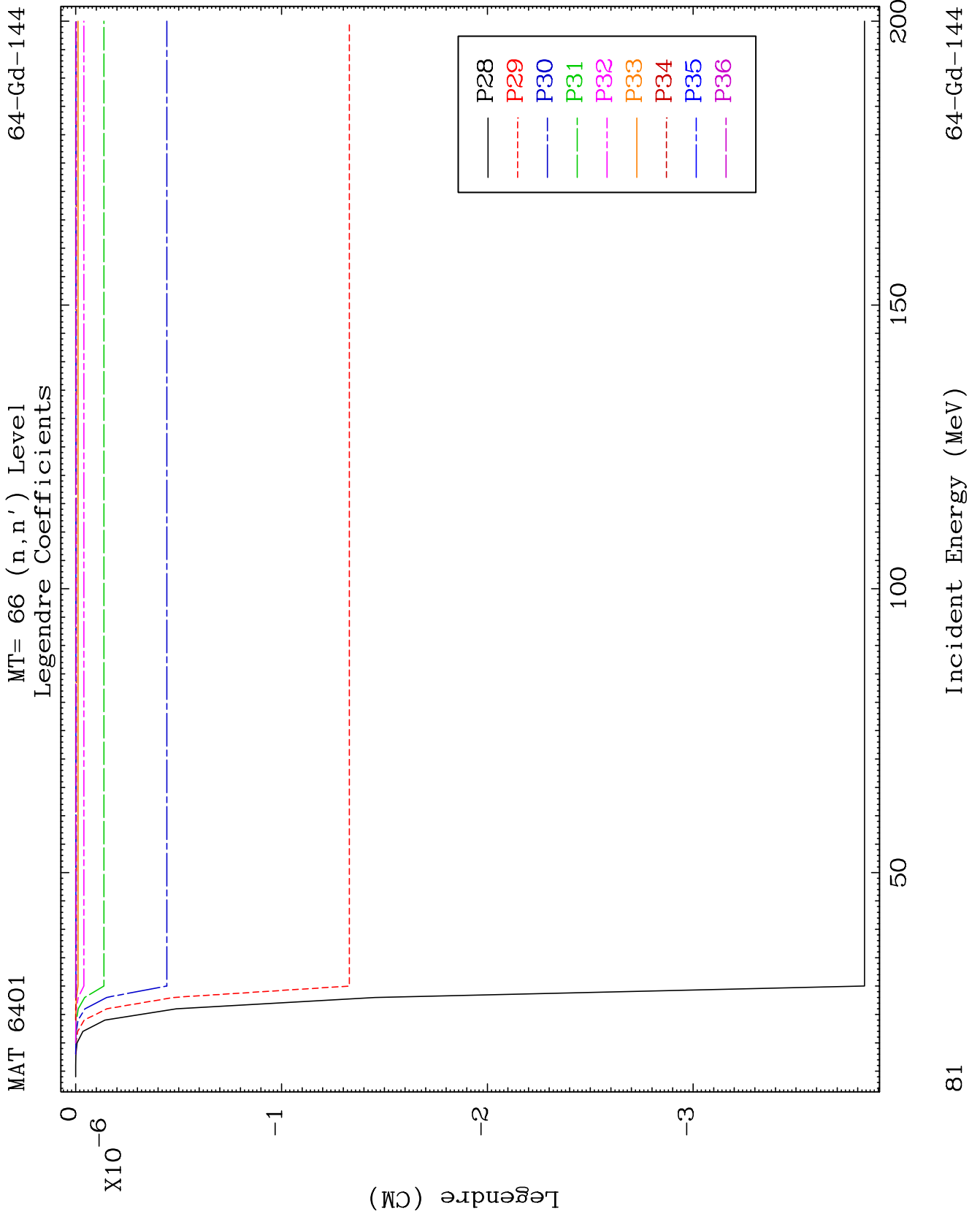
64-Gd-144



80

Incident Energy (MeV)

64-Gd-144

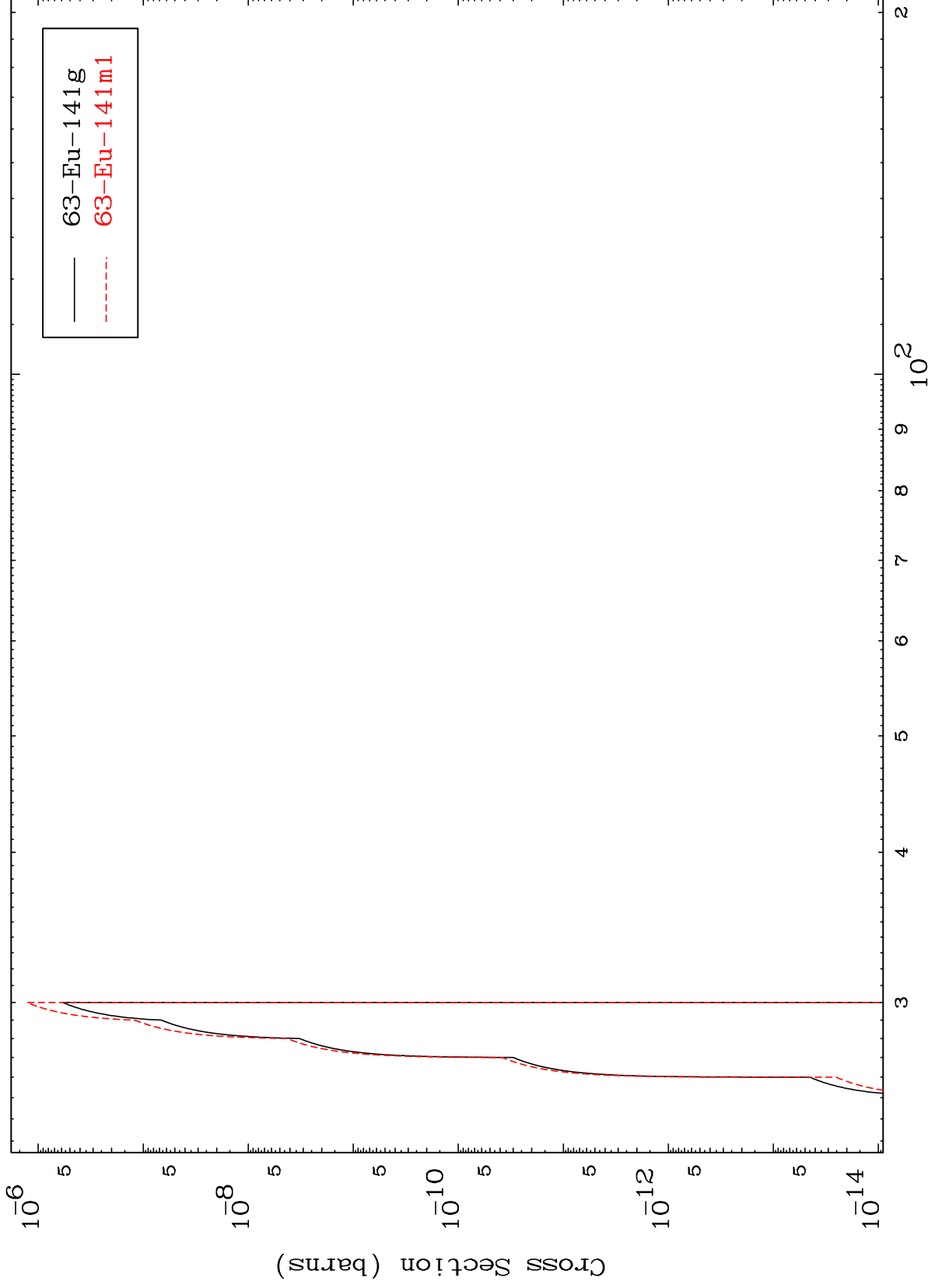


MAT 6401

(n,2n) d

64-Gd-144

Radionuclide Production Cross Section



82

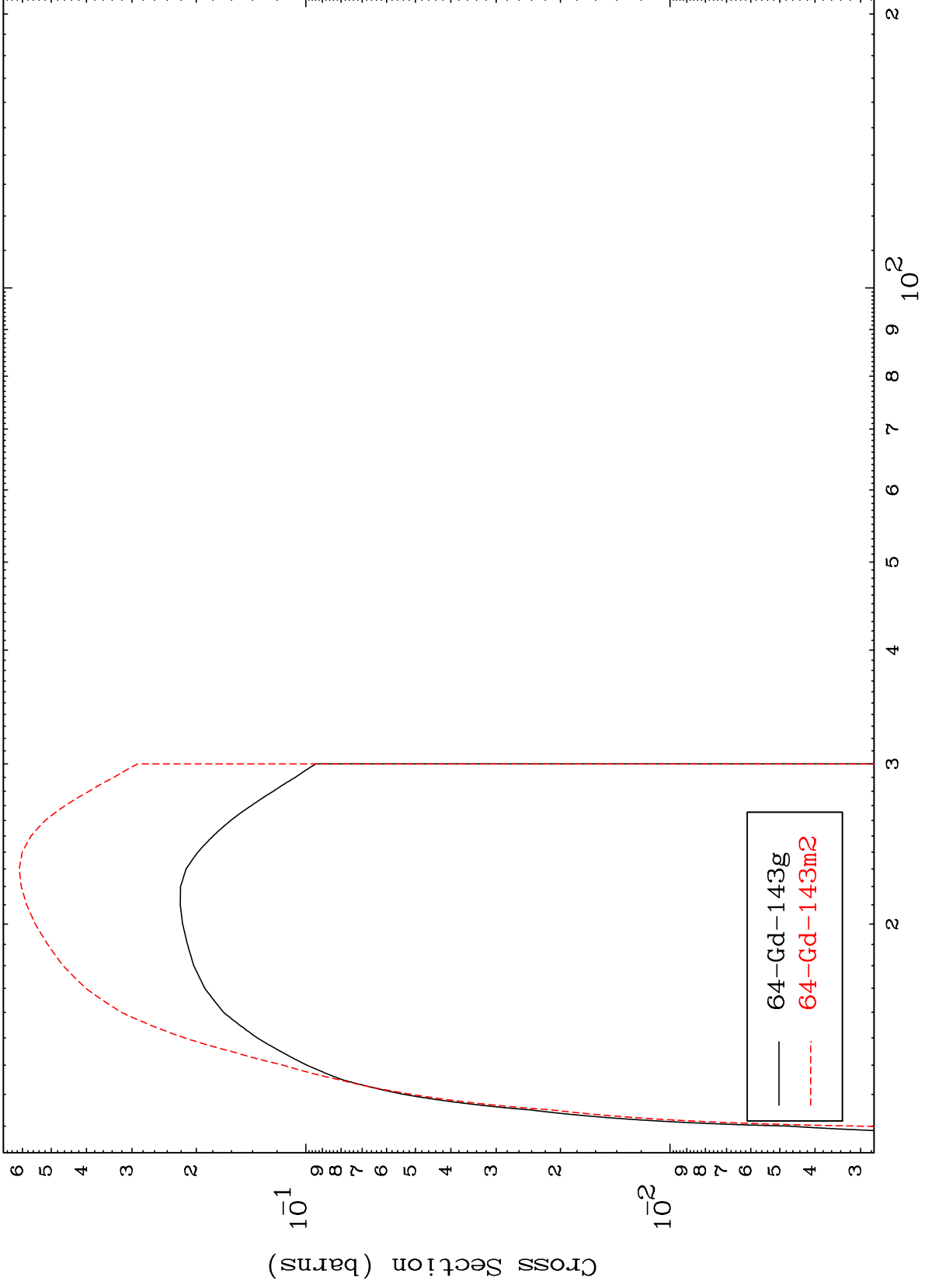
Incident Energy (MeV)

64-Gd-144

MAT 6401

64-Gd-144

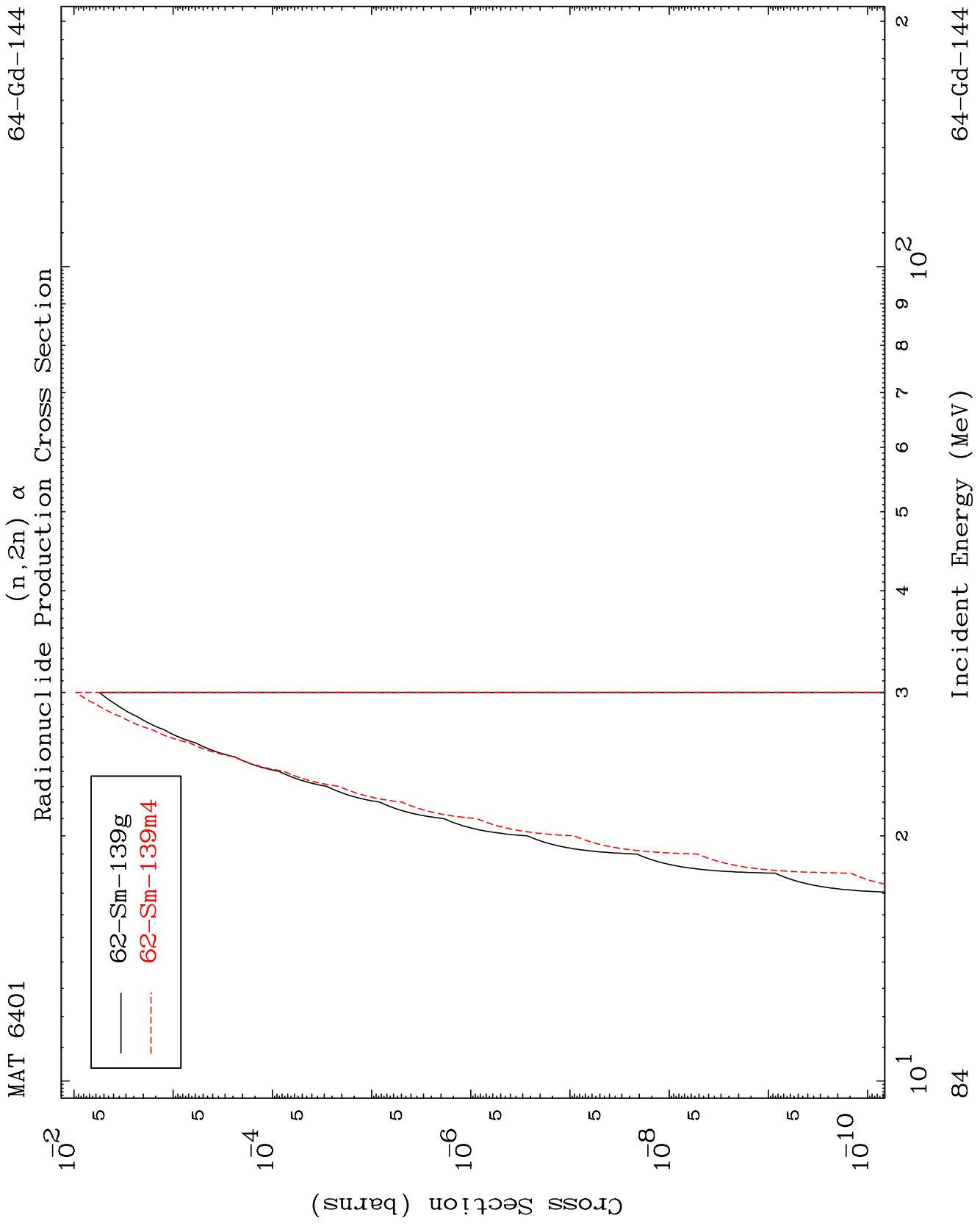
(n,2n)
Radionuclide Production Cross Section



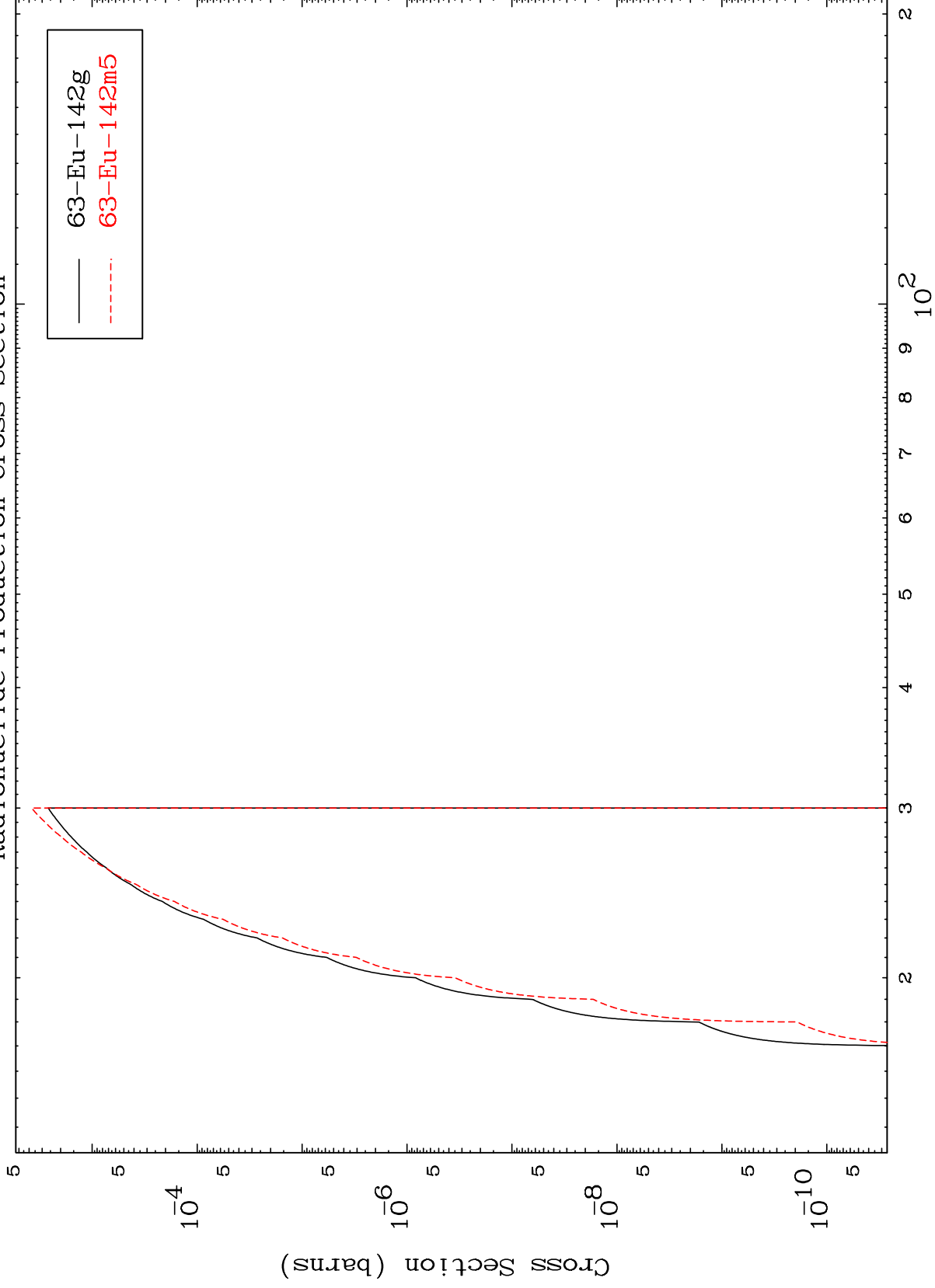
83

Incident Energy (MeV)

64-Gd-144



Radionuclide Production Cross Section

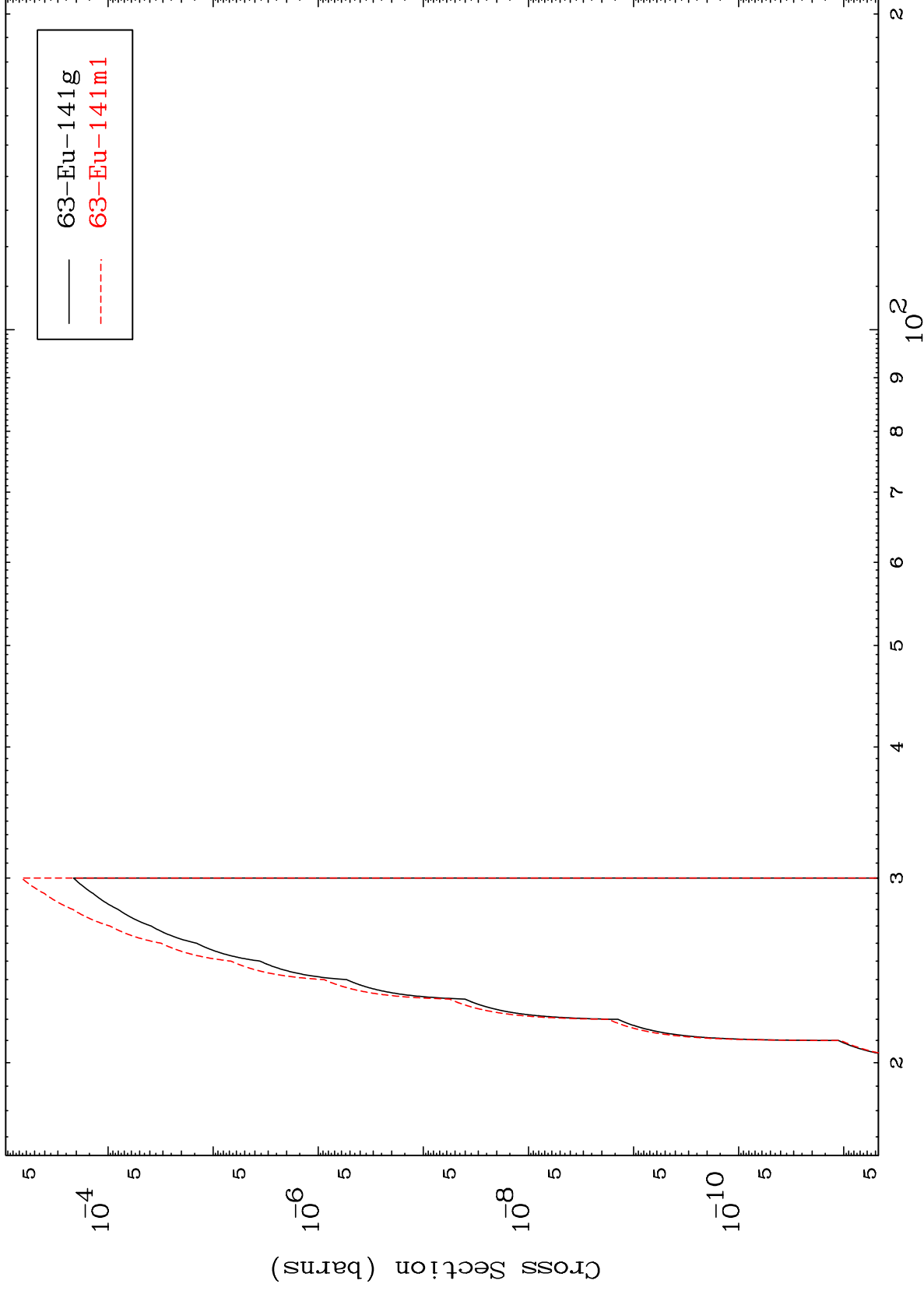


MAT 6401

(n,n') t

64-Gd-144

Radionuclide Production Cross Section



86

Incident Energy (MeV)

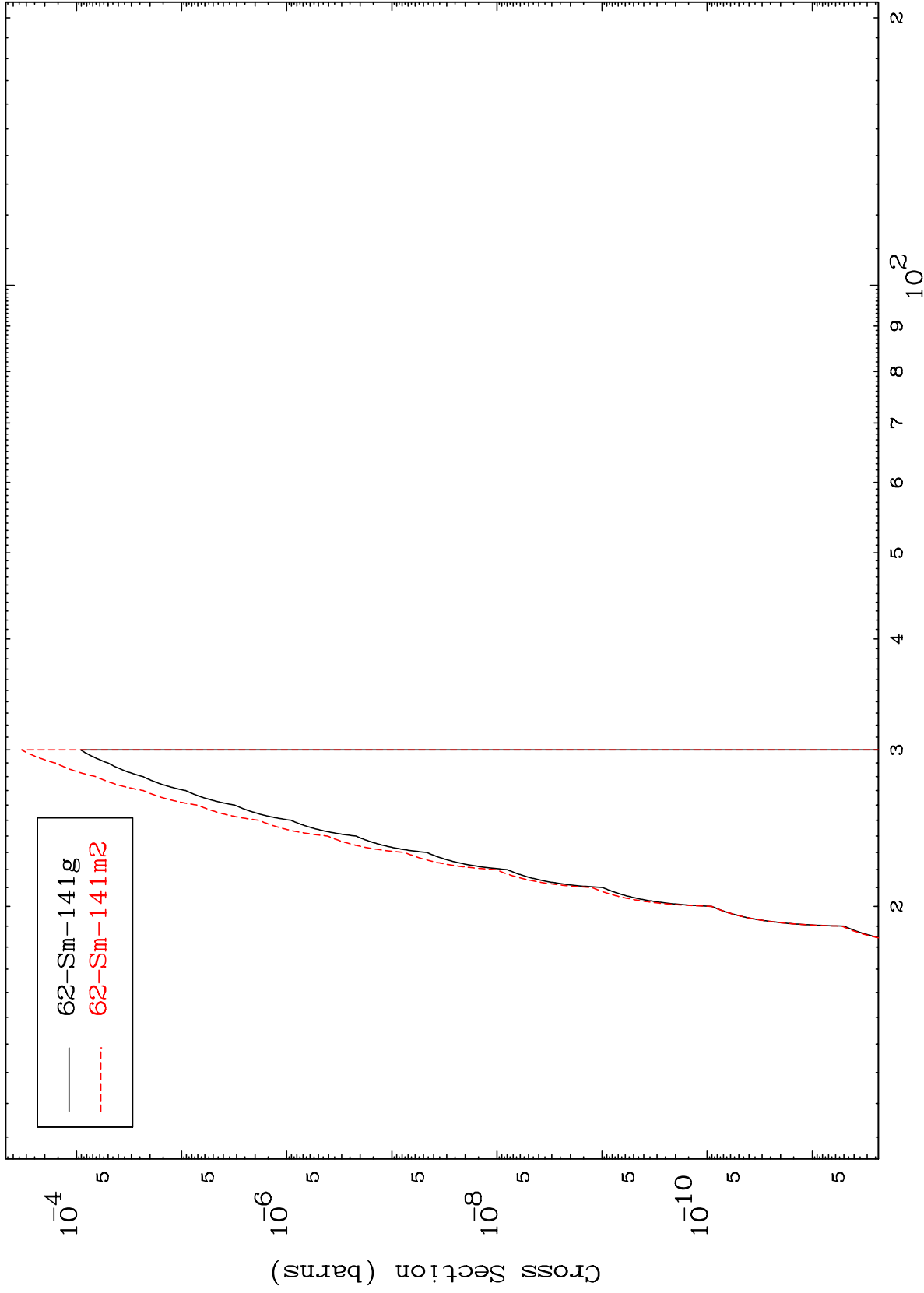
64-Gd-144

MAT 6401

(n,n') He-3

64-Gd-144

Radionuclide Production Cross Section

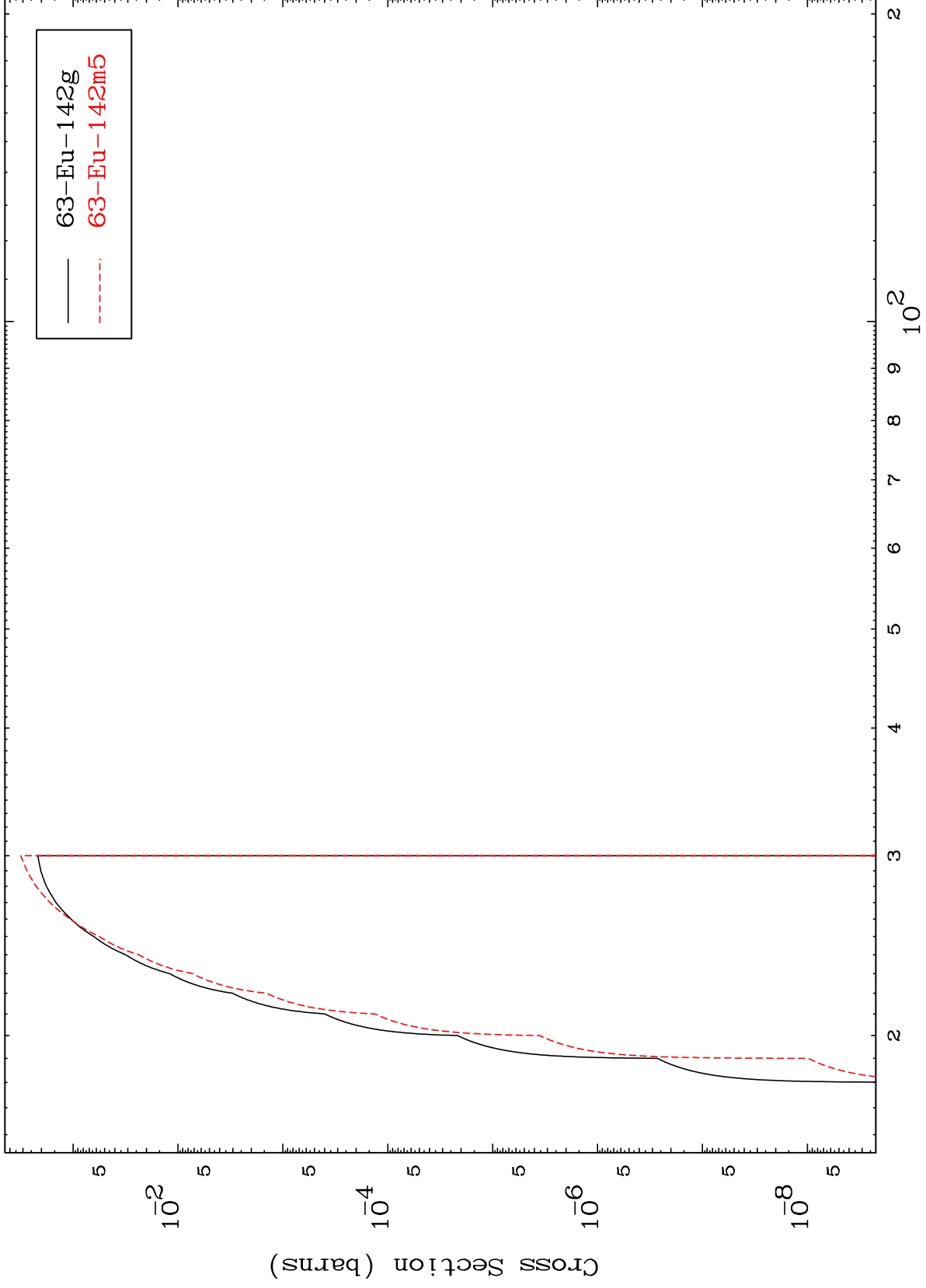


87

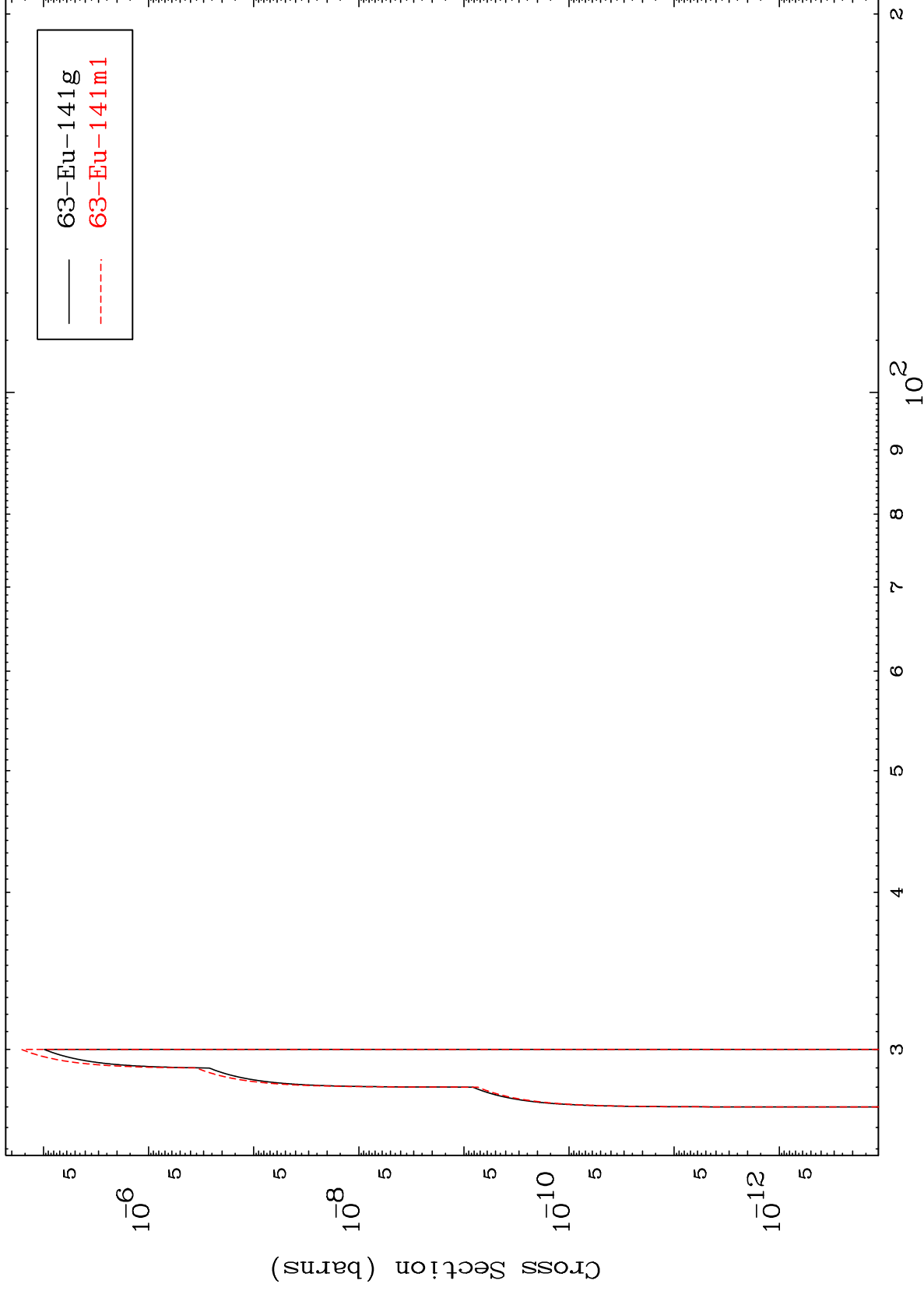
Incident Energy (MeV)

64-Gd-144

Radionuclide Production Cross Section



Radionuclide Production Cross Section

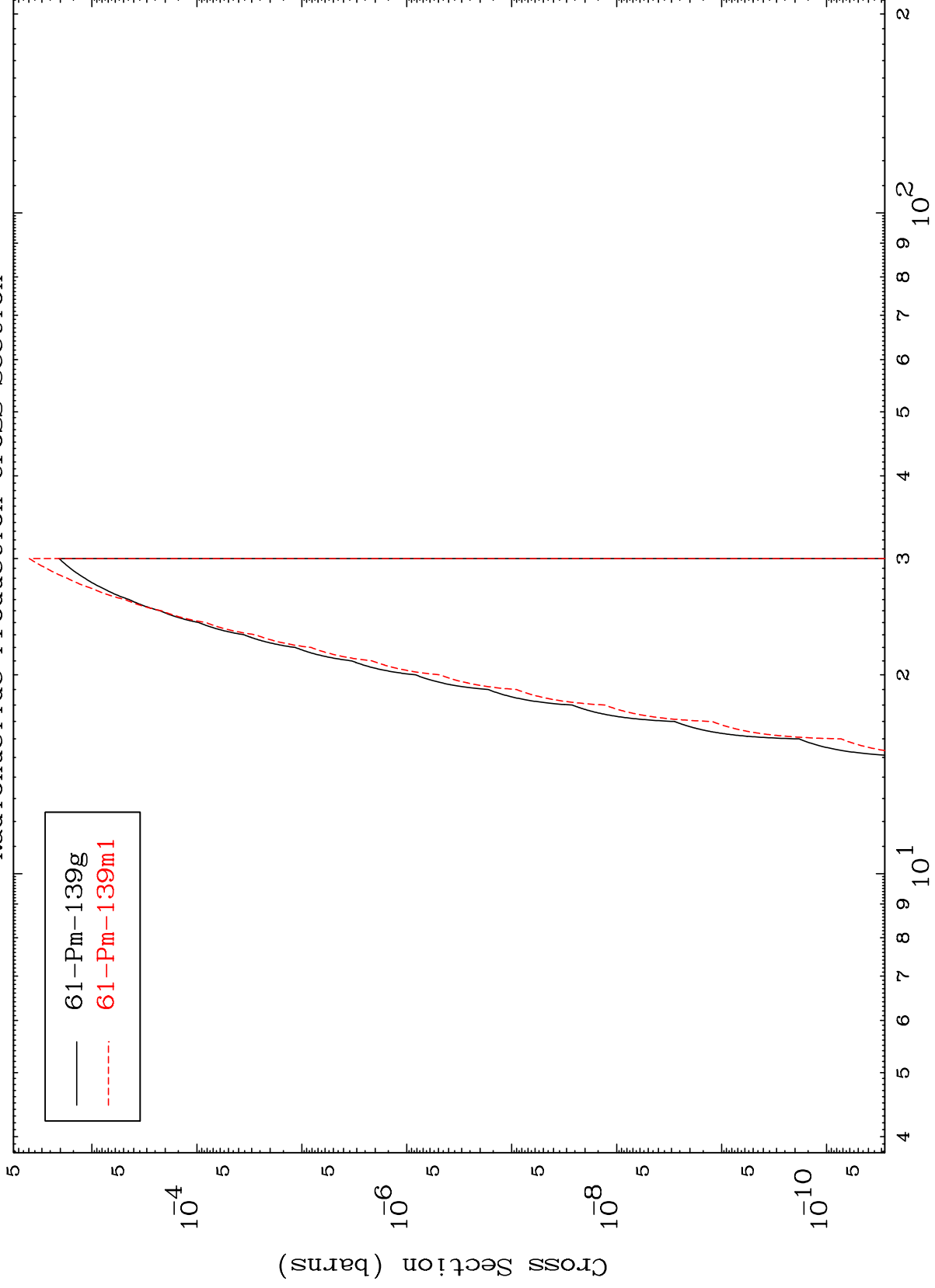


MAT 6401

(n,n') p α

64-Gd-144

Radionuclide Production Cross Section



90

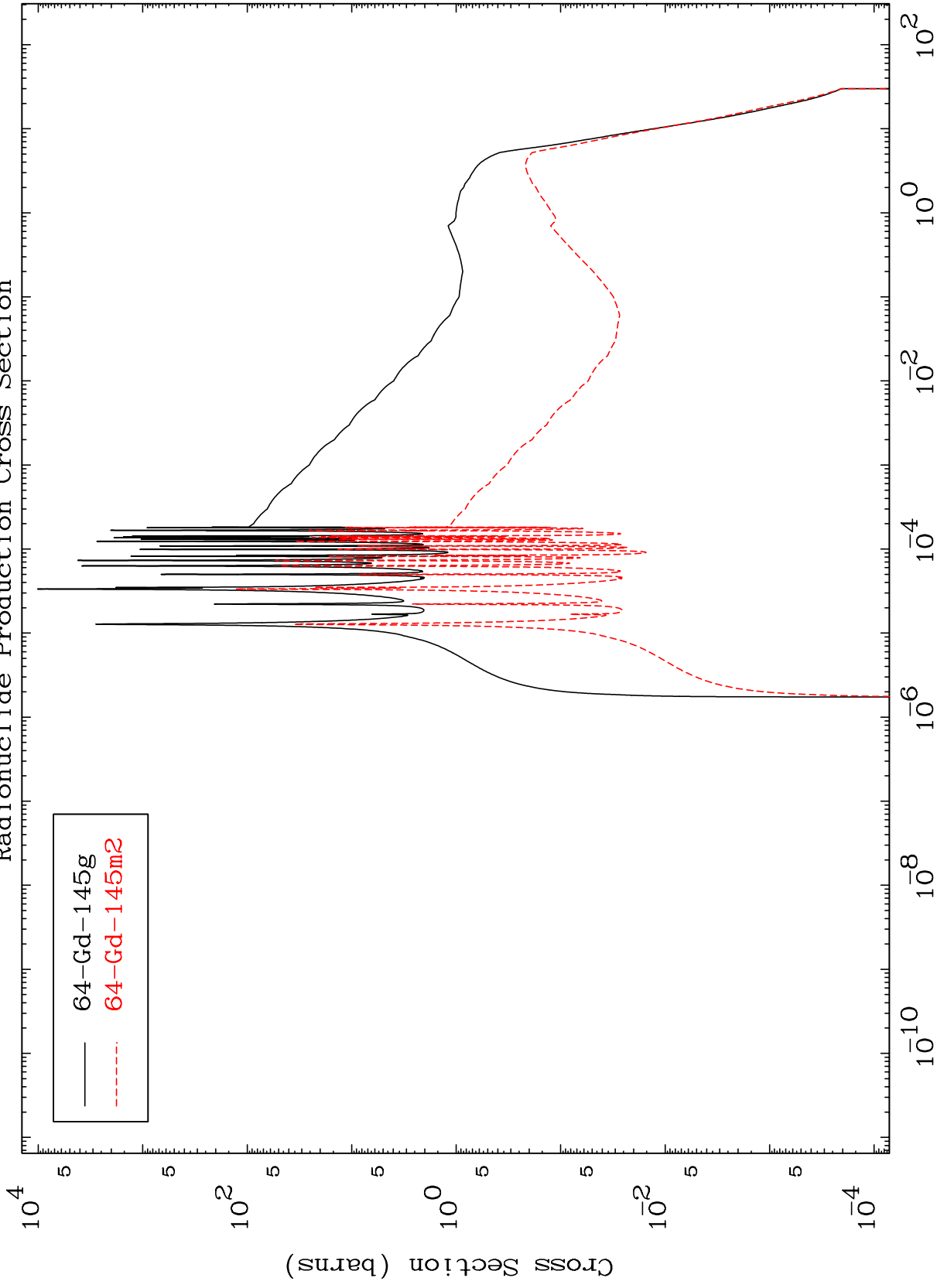
Incident Energy (MeV)

64-Gd-144

MAT 6401

64-Gd-144

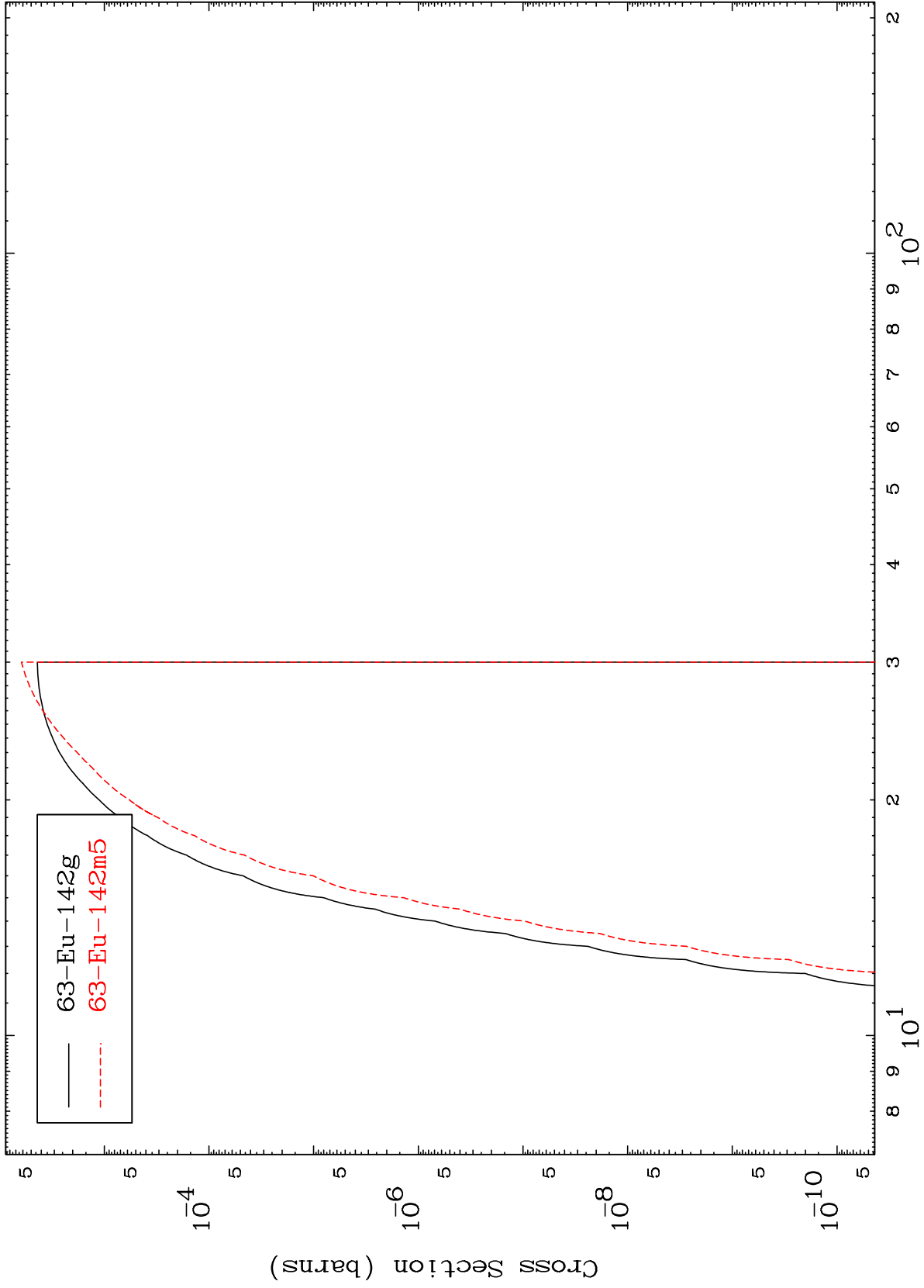
Radionuclide Production Cross Section



MAT 6401

64-Gd-144

(n, t)
Radionuclide Production Cross Section



92

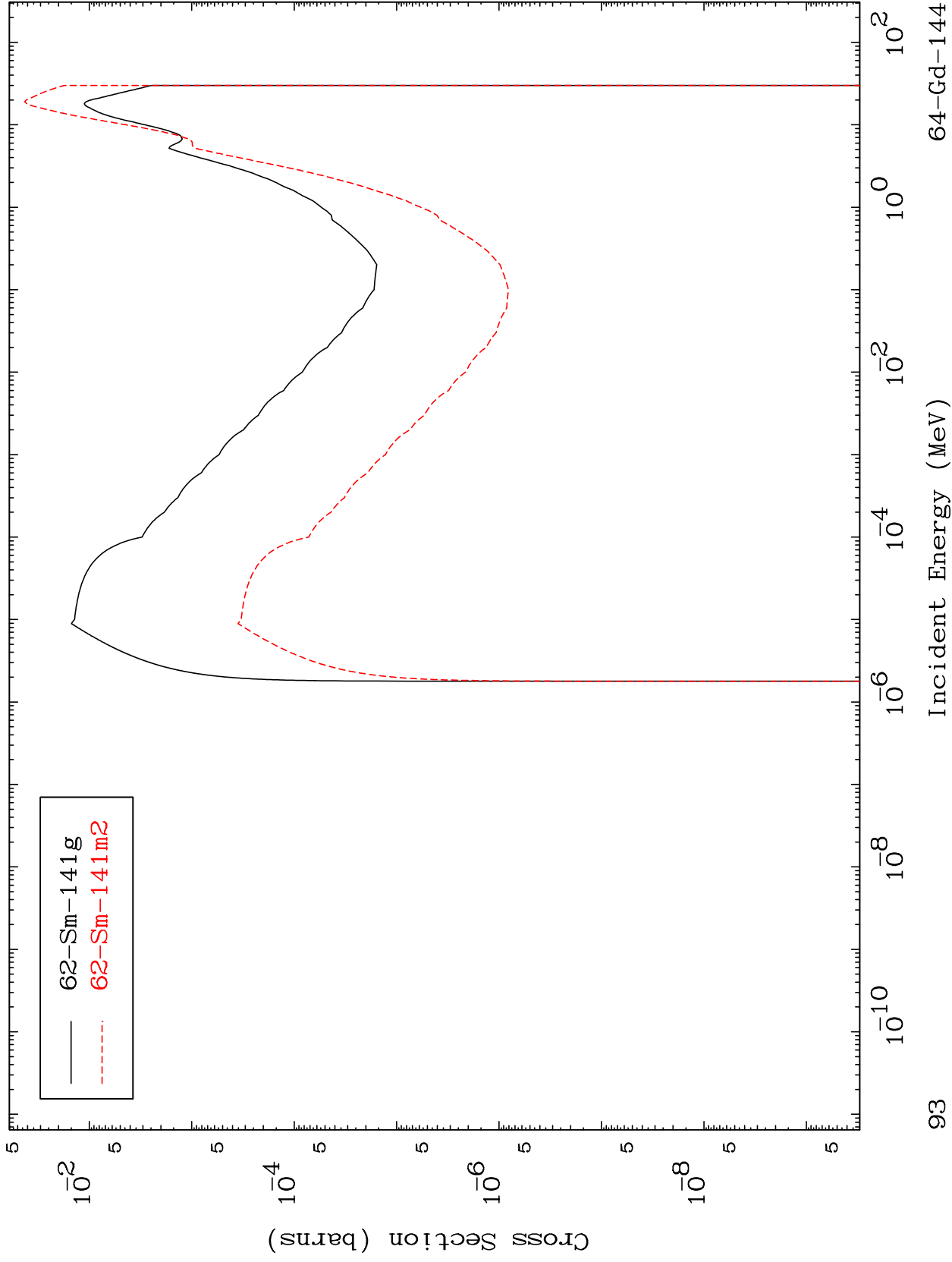
Incident Energy (MeV)

64-Gd-144

MAT 6401

64-Gd-144

Radionuclide Production Cross Section
(n, α)



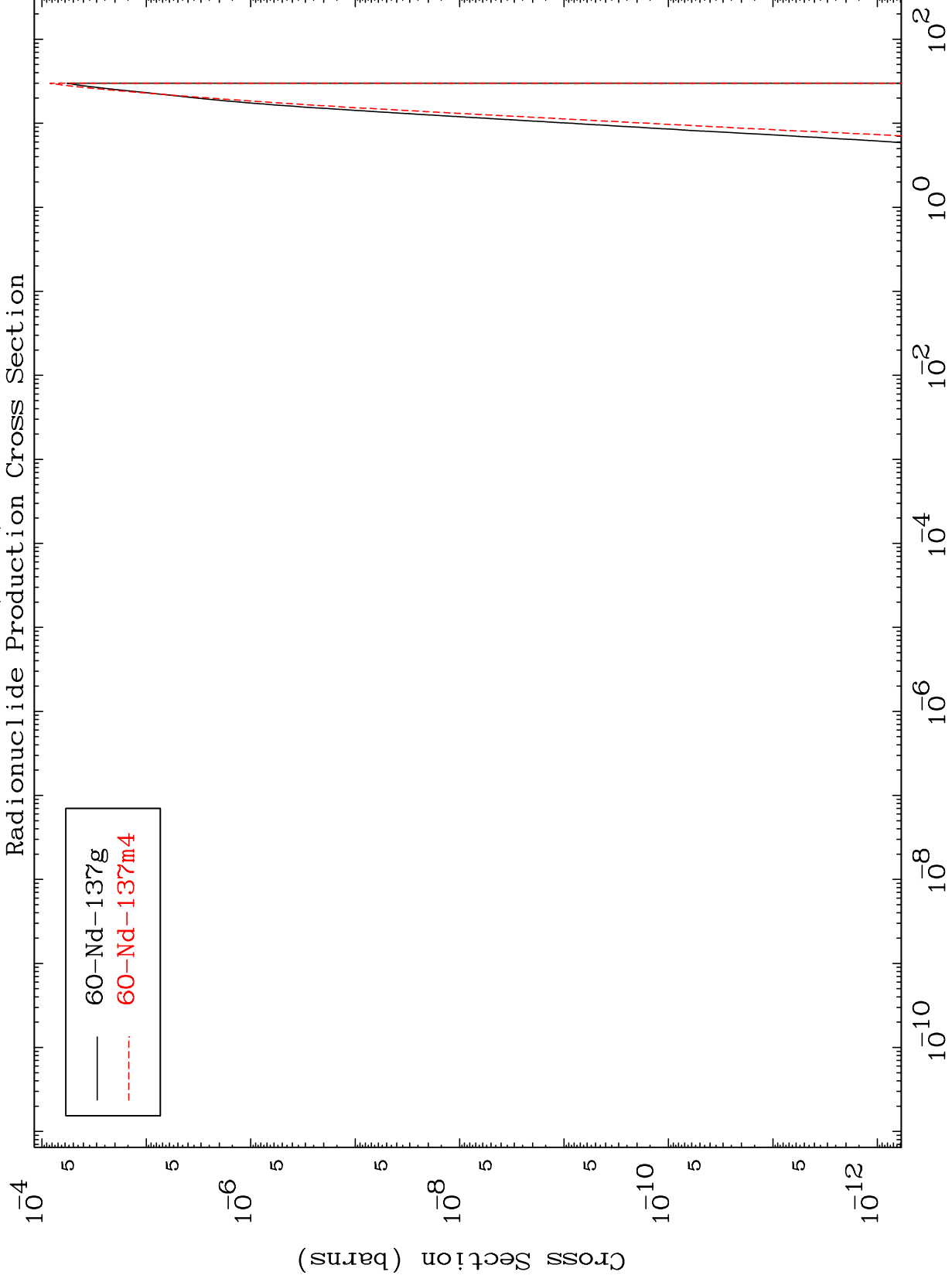
62-Sm-141g
62-Sm-141m2

MAT 6401

(n,2α)

64-Gd-144

Radionuclide Production Cross Section



94

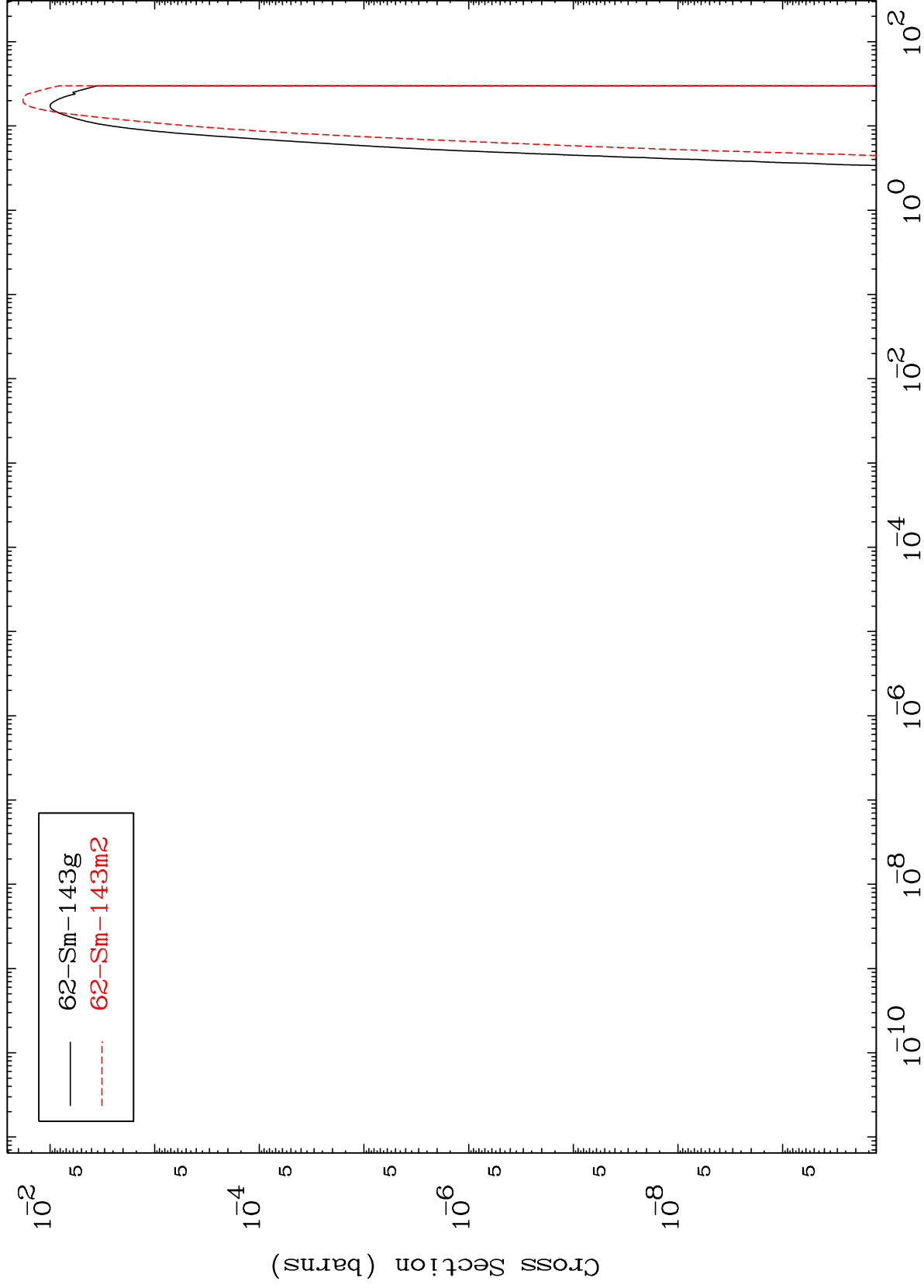
Incident Energy (MeV)

64-Gd-144

MAT 6401

64-Gd-144

(n,2p)
Radionuclide Production Cross Section



95

Incident Energy (MeV)

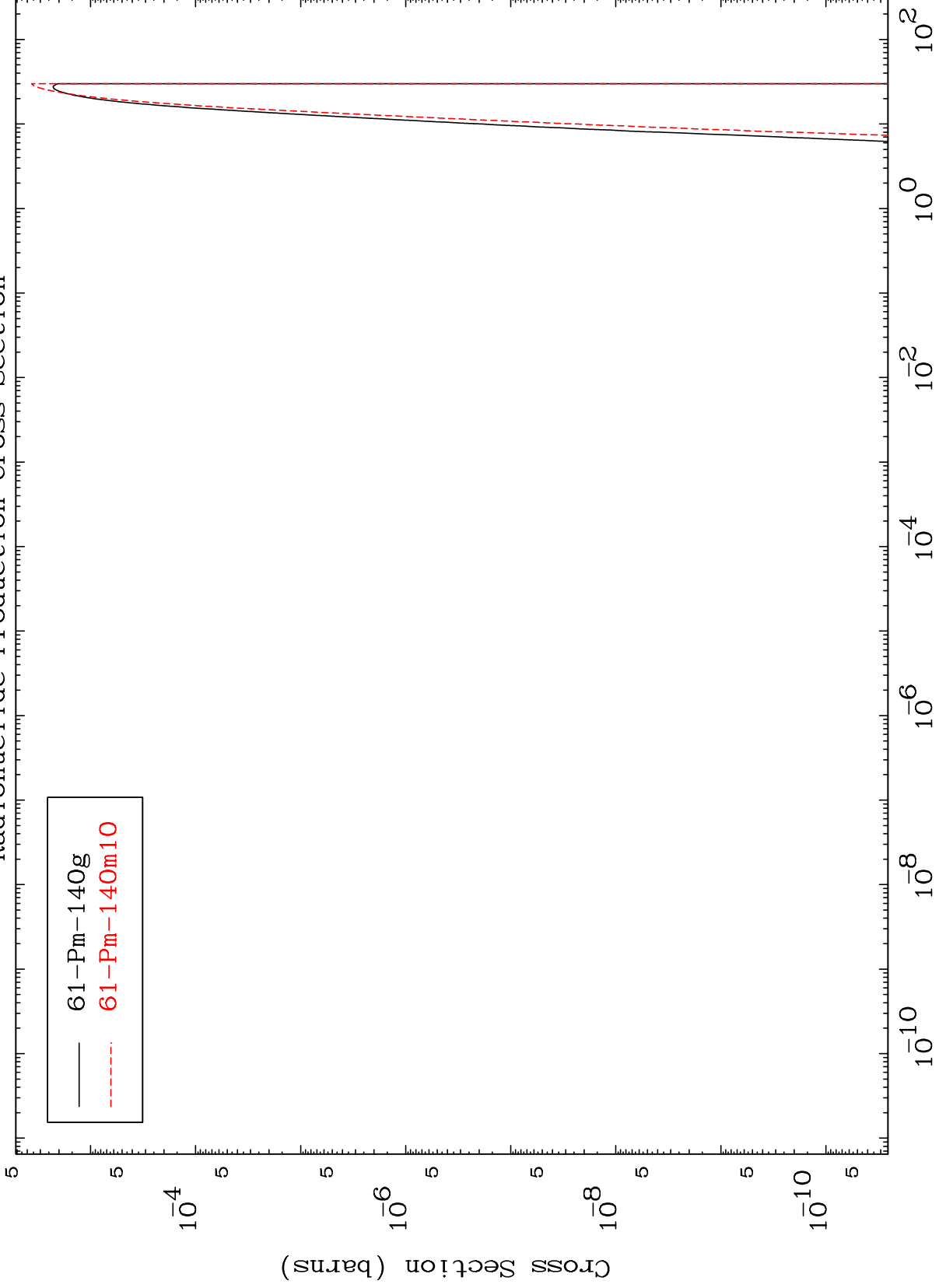
64-Gd-144

MAT 6401

(n,p) α

64-Gd-144

Radionuclide Production Cross Section

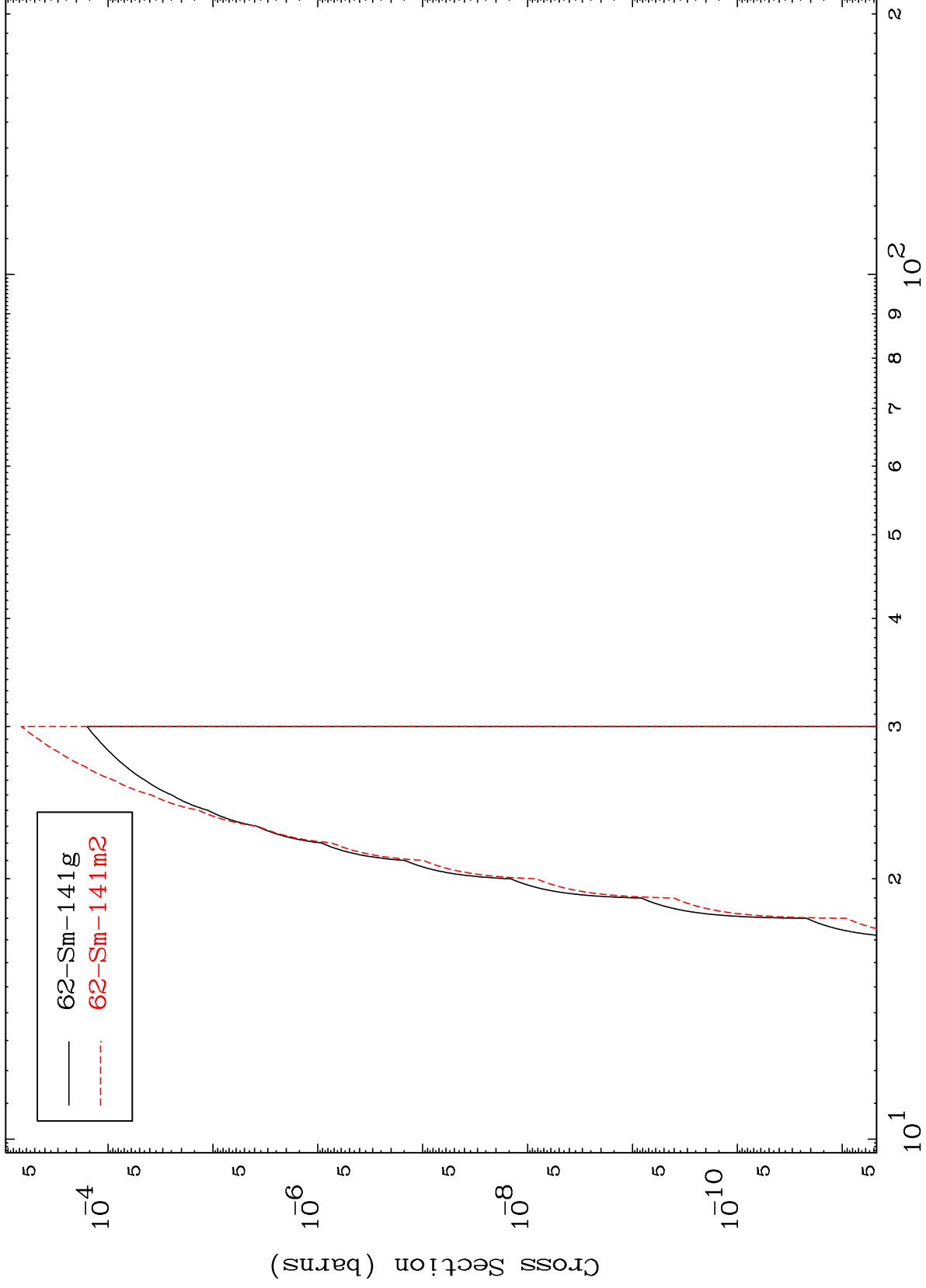


MAT 6401

(n,p) t

64-Gd-144

Radionuclide Production Cross Section



97

Incident Energy (MeV)

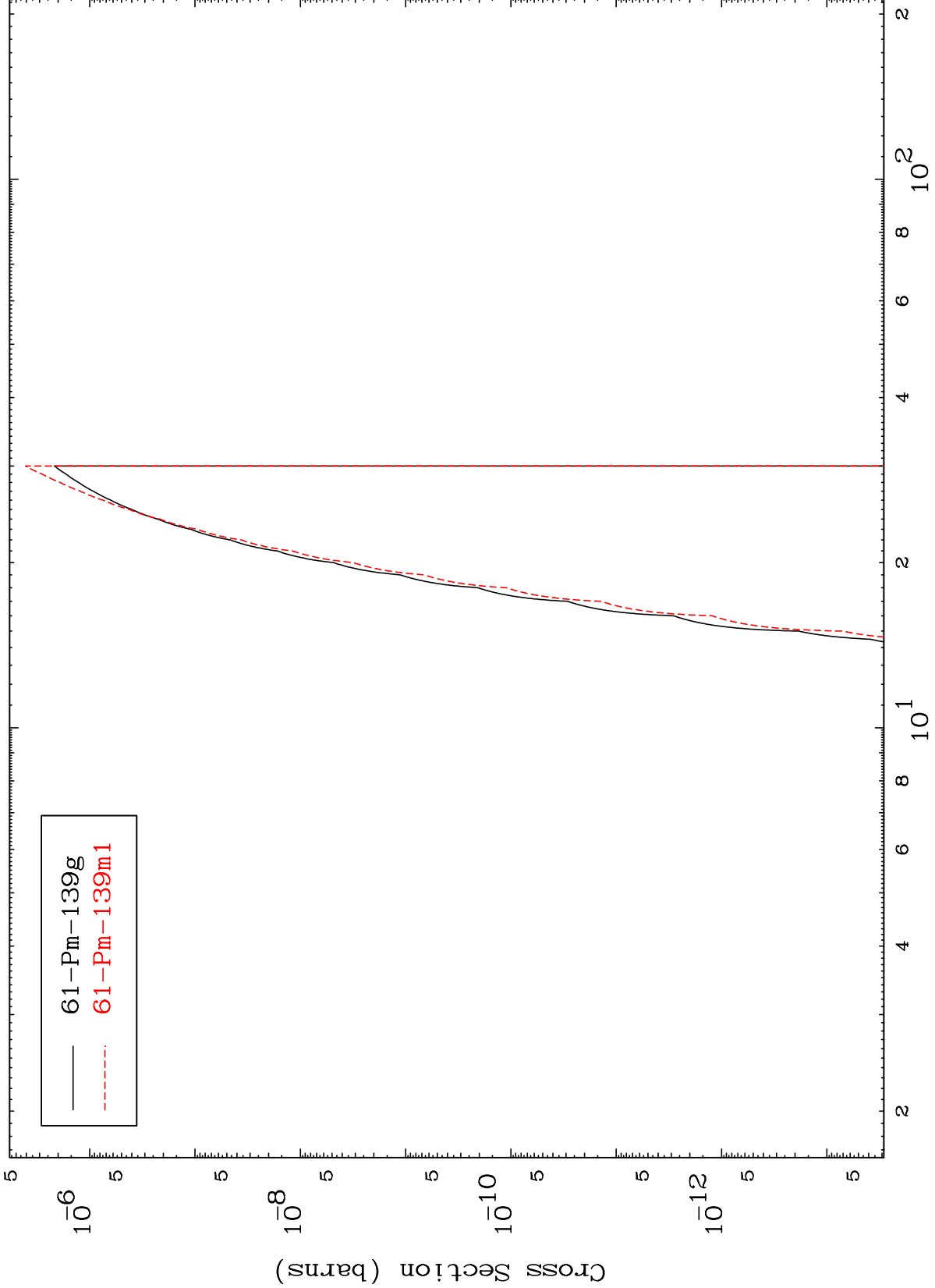
64-Gd-144

MAT 6401

(n,d) α

64-Gd-144

Radionuclide Production Cross Section



61-Pm-139g
61-Pm-139m1

98

Incident Energy (MeV)

64-Gd-144