

Program EVALPLOT
(Version 2018-1)

by

Dermott E. Cullen
(Present Contact Information)

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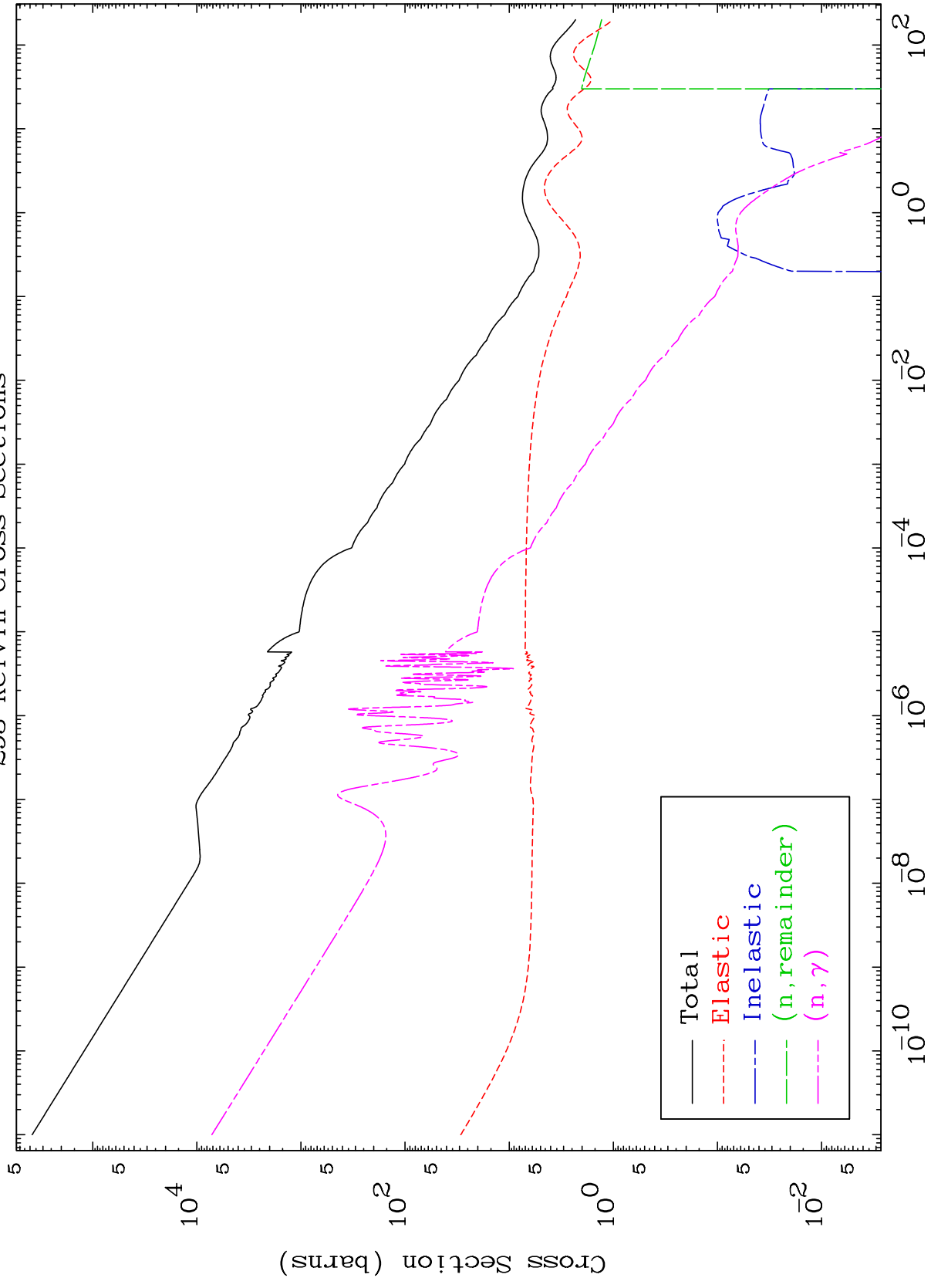
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6480

Major
293 Kelvin Cross Sections

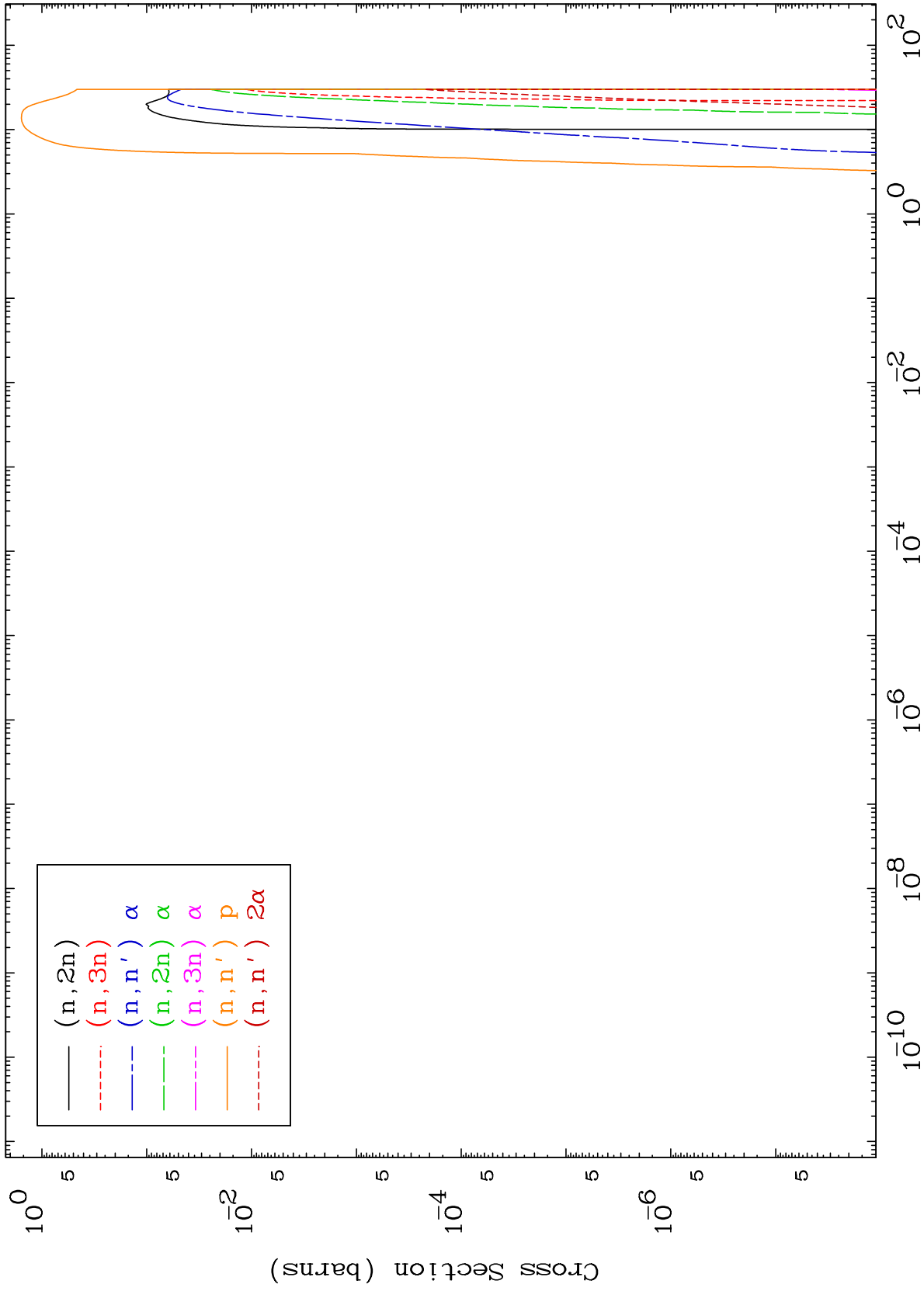
65-Tb-144



MAT 6480

Neutron Production
293 Kelvin Cross Sections

65-Tb-144



2

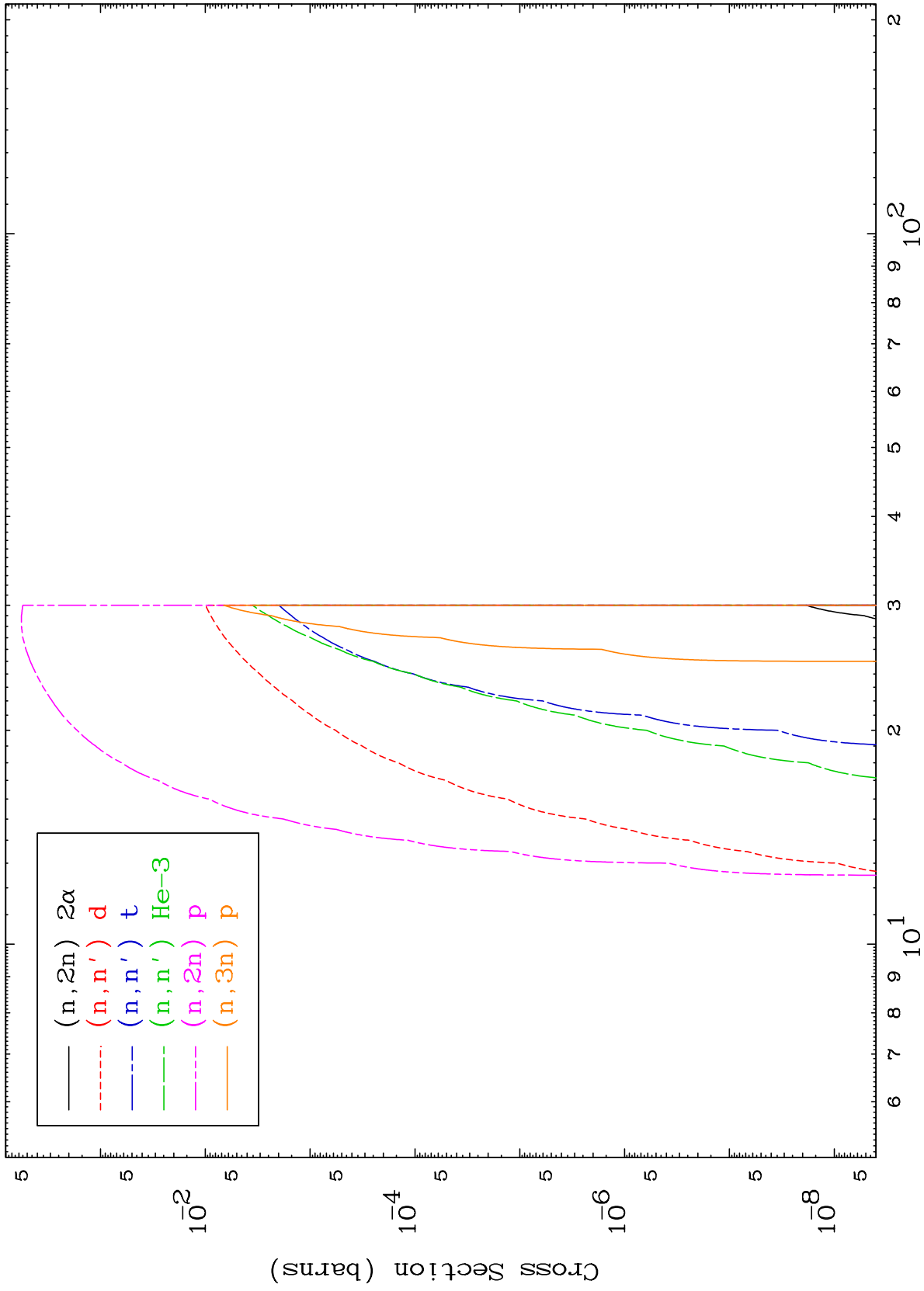
Incident Energy (MeV)

65-Tb-144

MAT 6480

Neutron Production
293 Kelvin Cross Sections

65-Tb-144



3

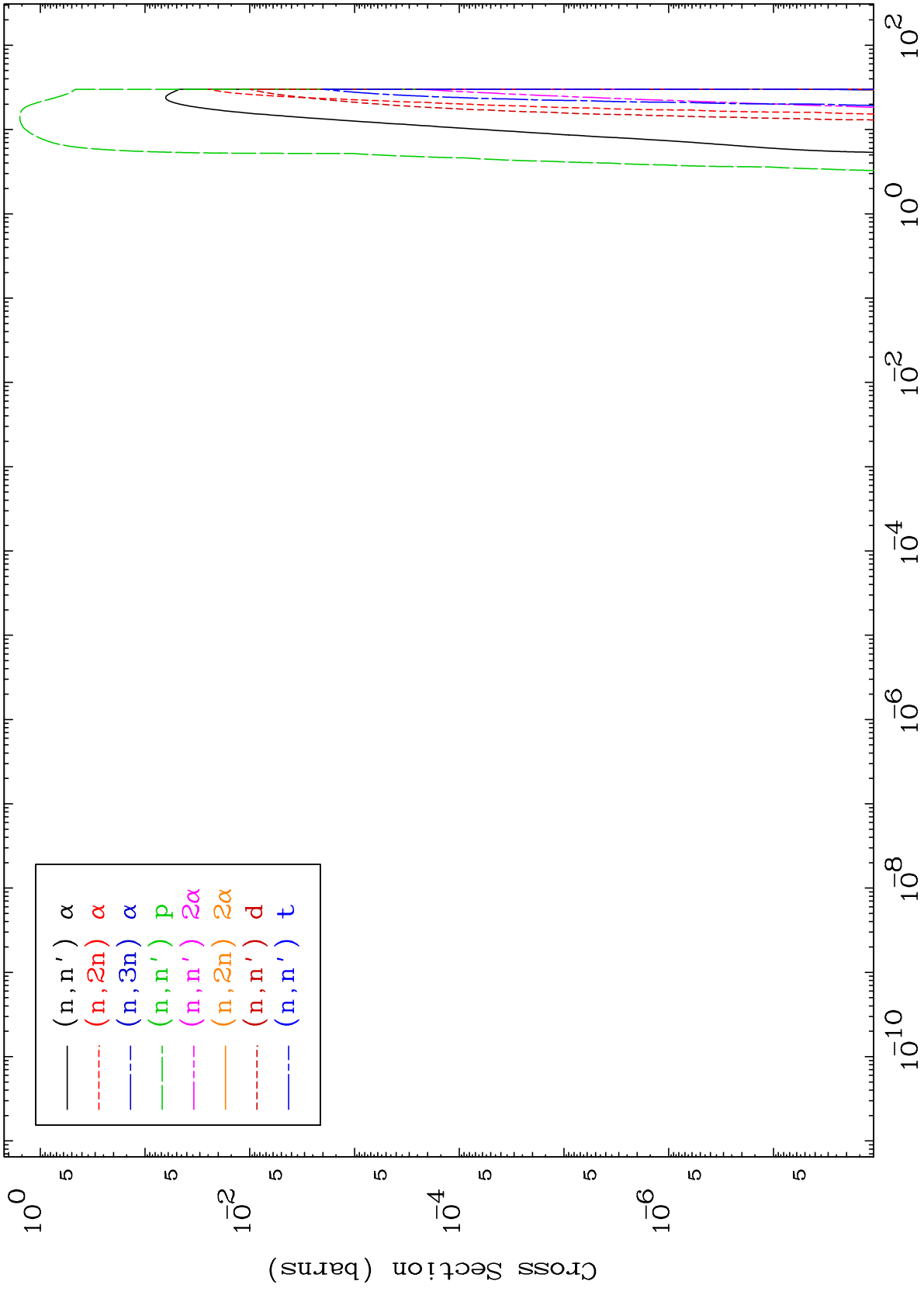
Incident Energy (MeV)

65-Tb-144

MAT 6480

293 Charged Particle
Kelvin Cross Sections

65-Tb-144

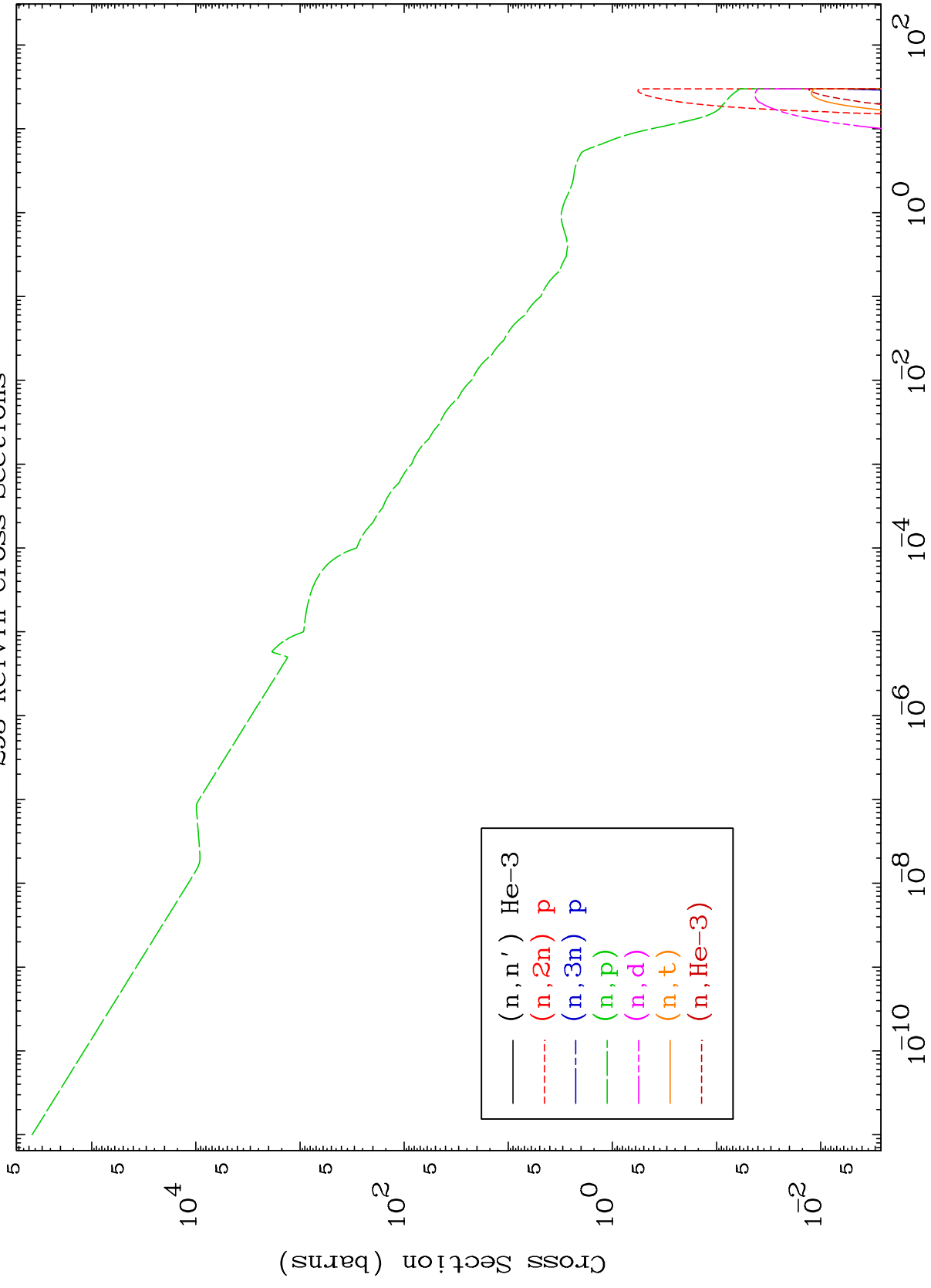


65-Tb-144

MAT 6480

293 Kelvin Cross Sections

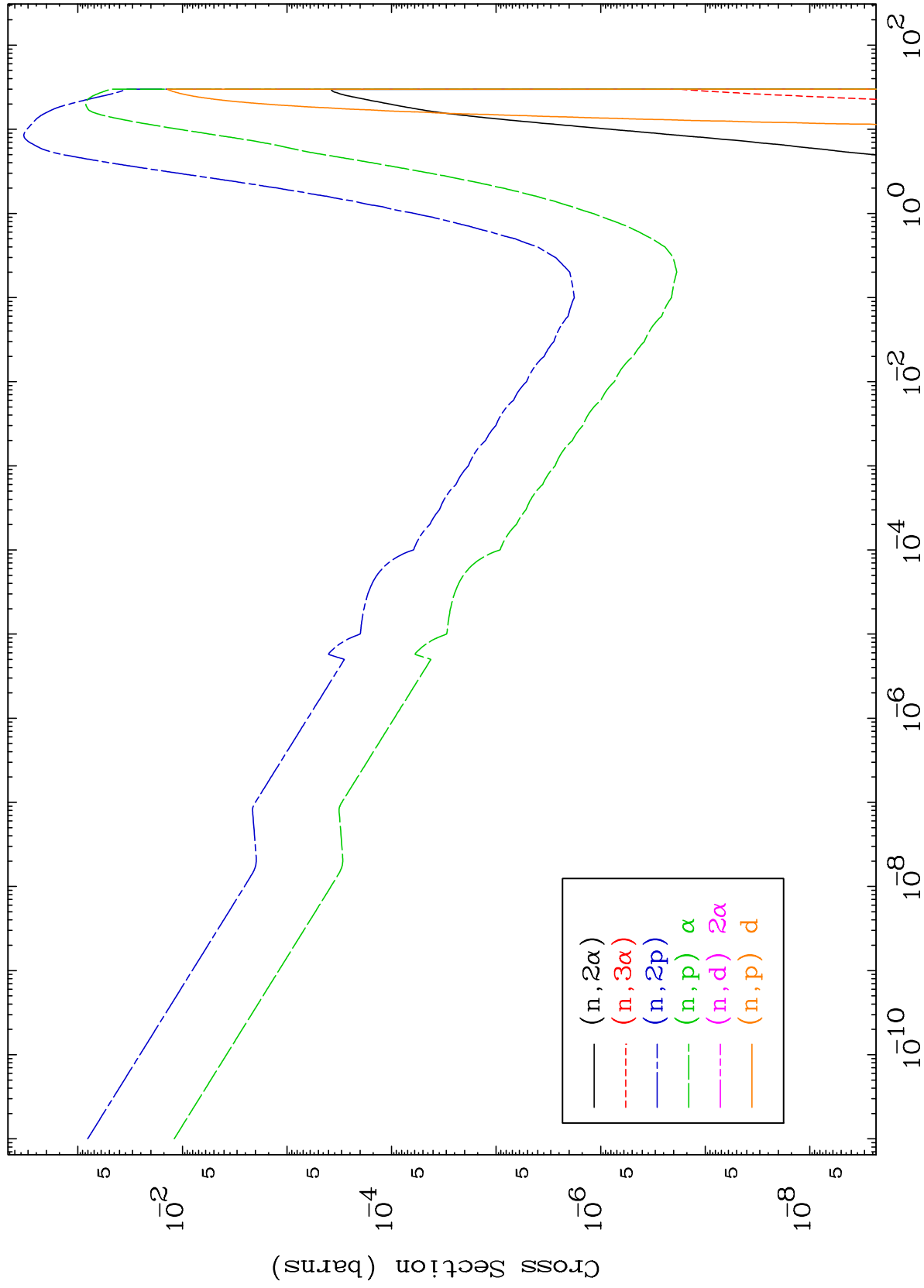
65-Tb-144



MAT 6480

293 Kelvin Cross Sections

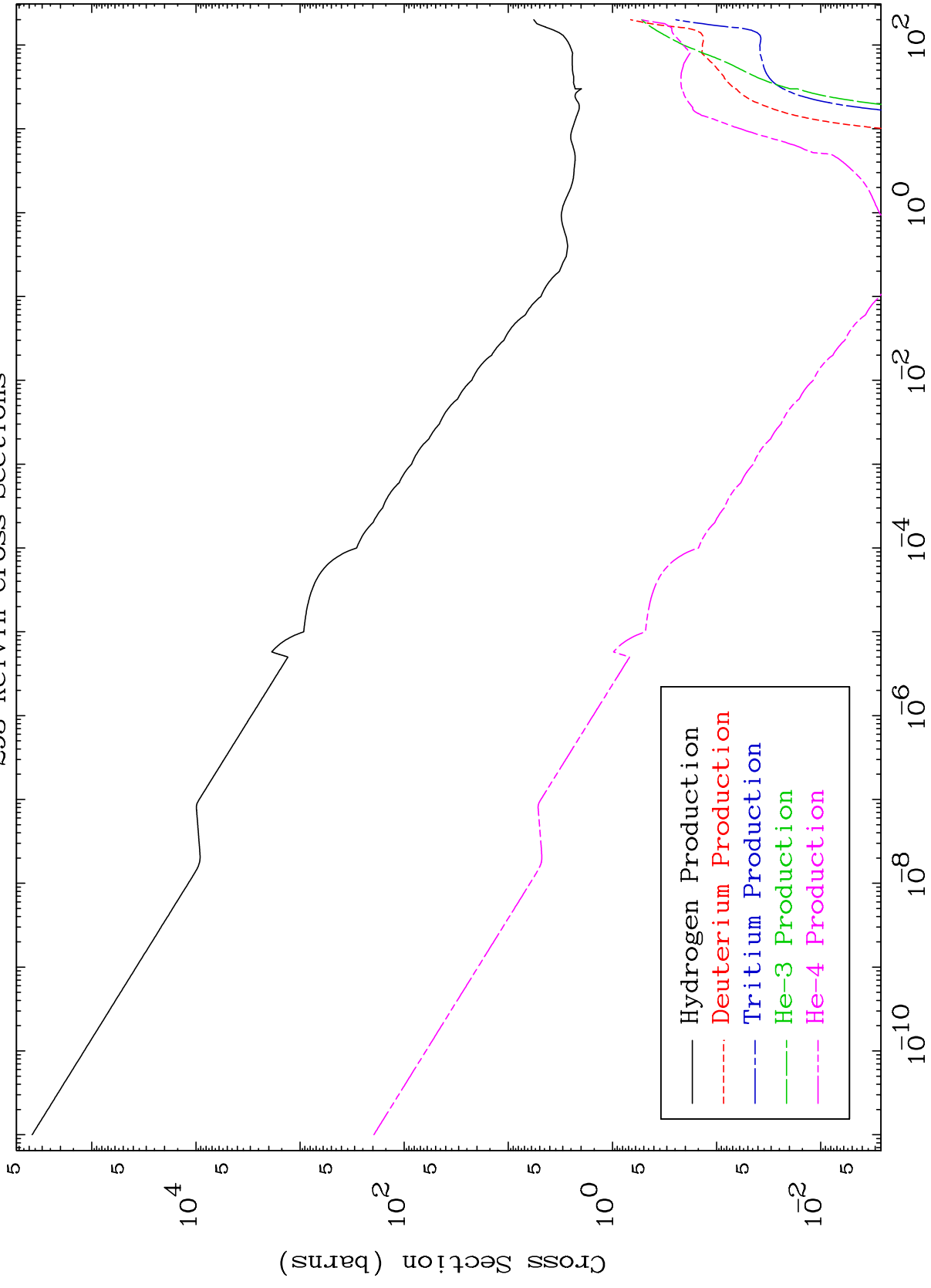
65-Tb-144



MAT 6480

Particle Production
293 Kelvin Cross Sections

65-Tb-144



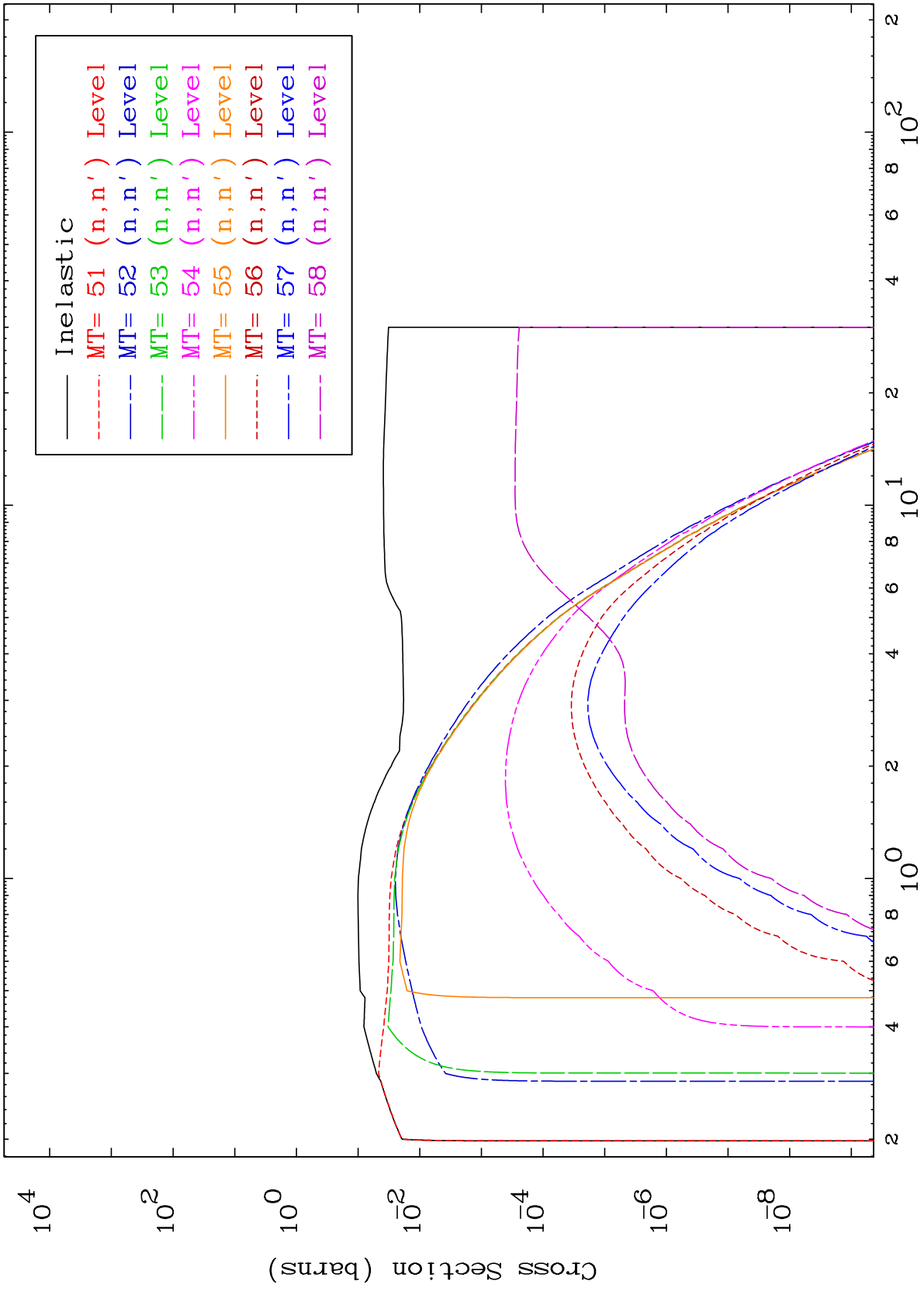
65-Tb-144

MAT 6480

(n,n') Level

65-Tb-144

293 Kelvin Cross Sections



8

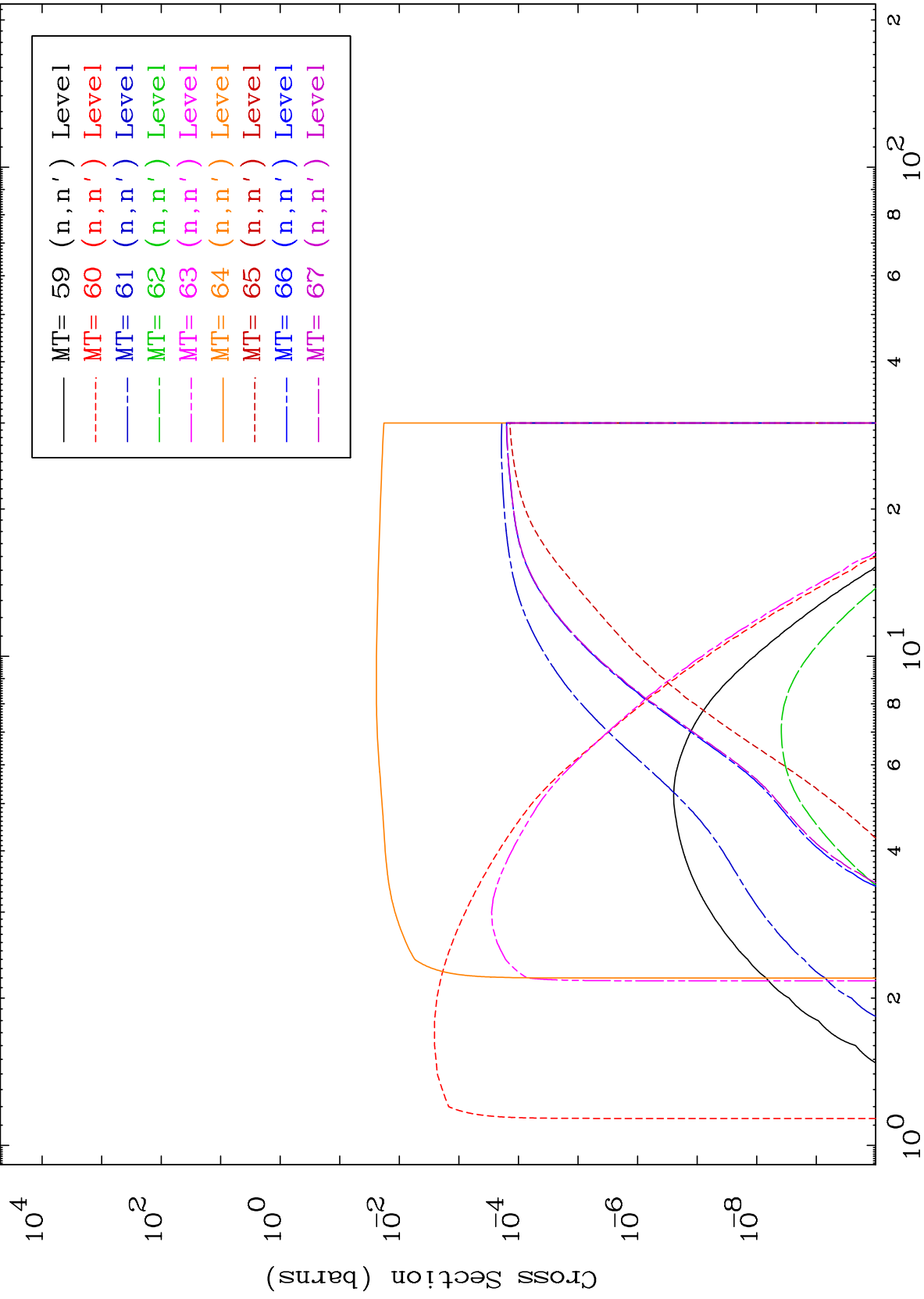
Incident Energy (MeV)

65-Tb-144

MAT 6480

(n,n') Level
293 Kelvin Cross Sections

65-Tb-144



Incident Energy (MeV)

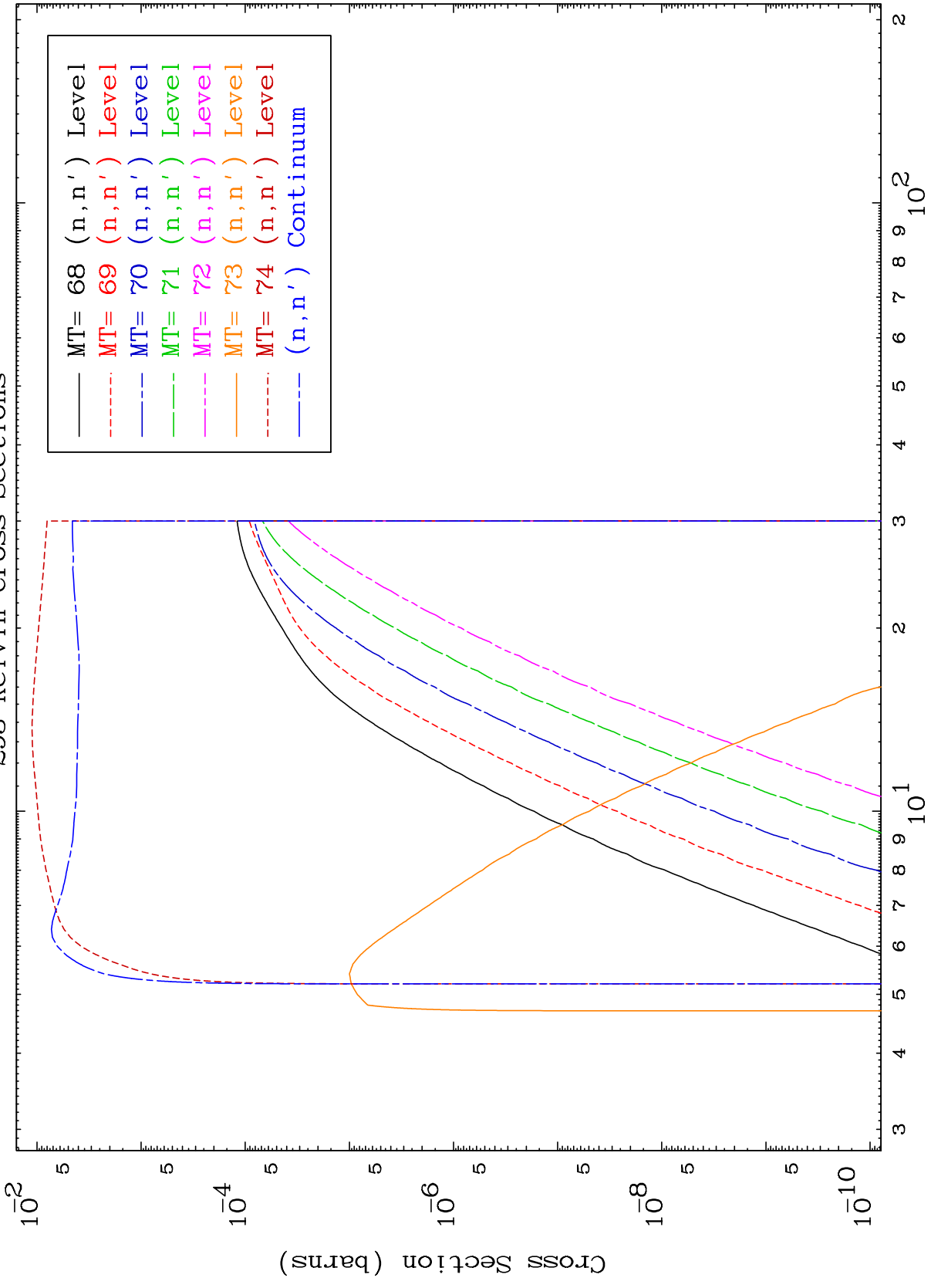
65-Tb-144

MAT 6480

(n,n') Level

65-Tb-144

293 Kelvin Cross Sections



10

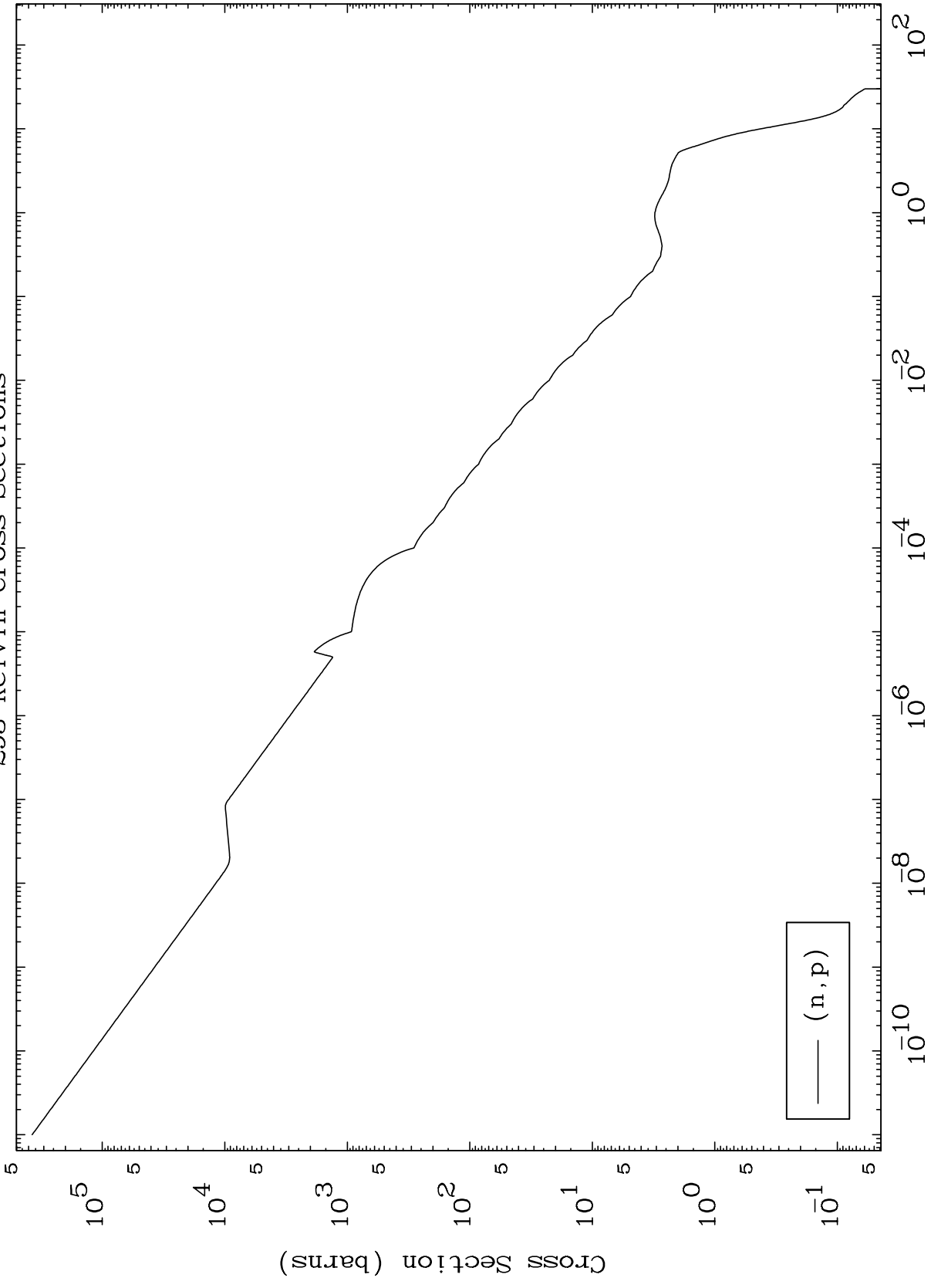
Incident Energy (MeV)

65-Tb-144

MAT 6480

(n,p) Levels
293 Kelvin Cross Sections

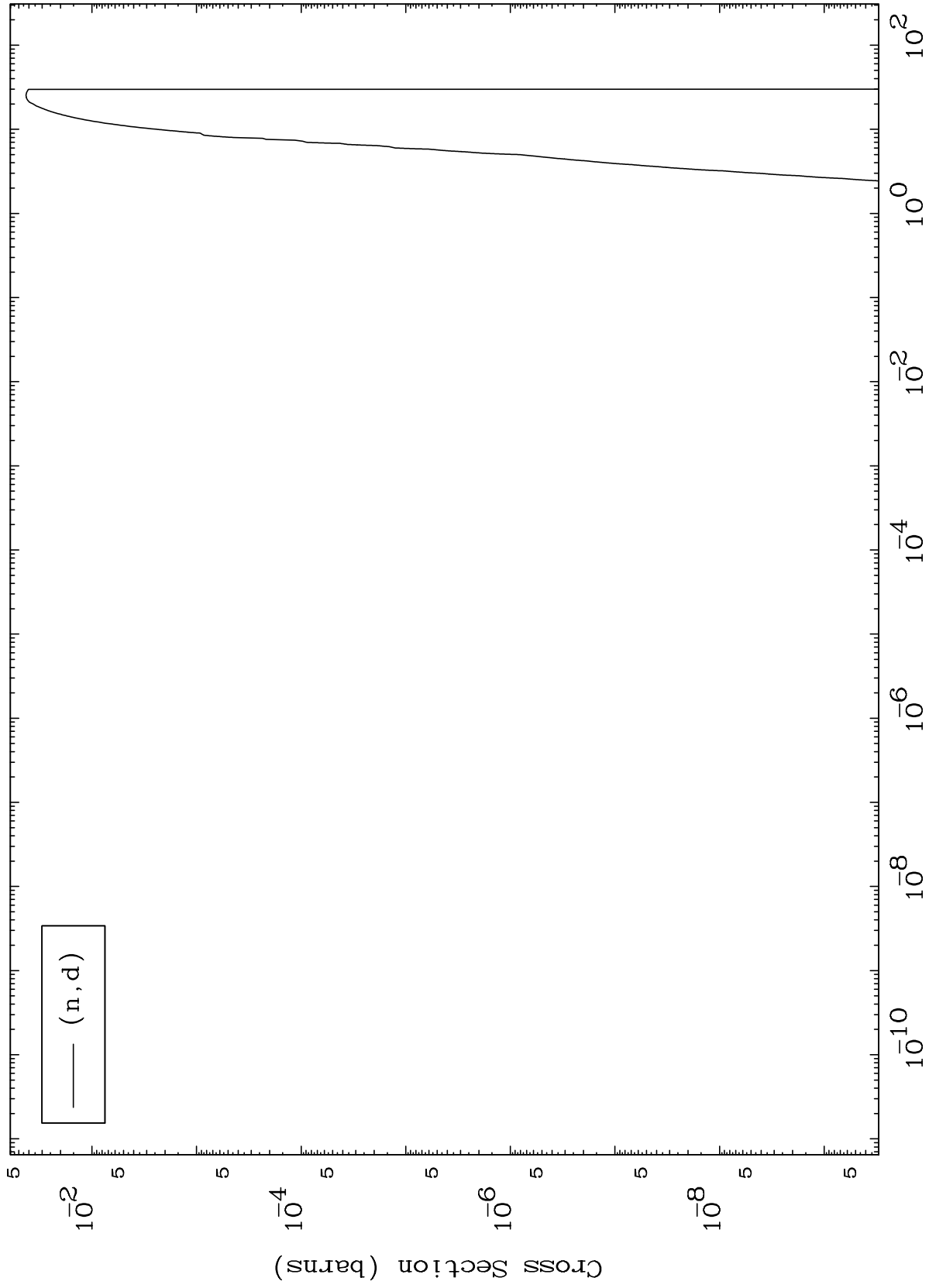
65-Tb-144



MAT 6480

(n,d) Levels
293 Kelvin Cross Sections

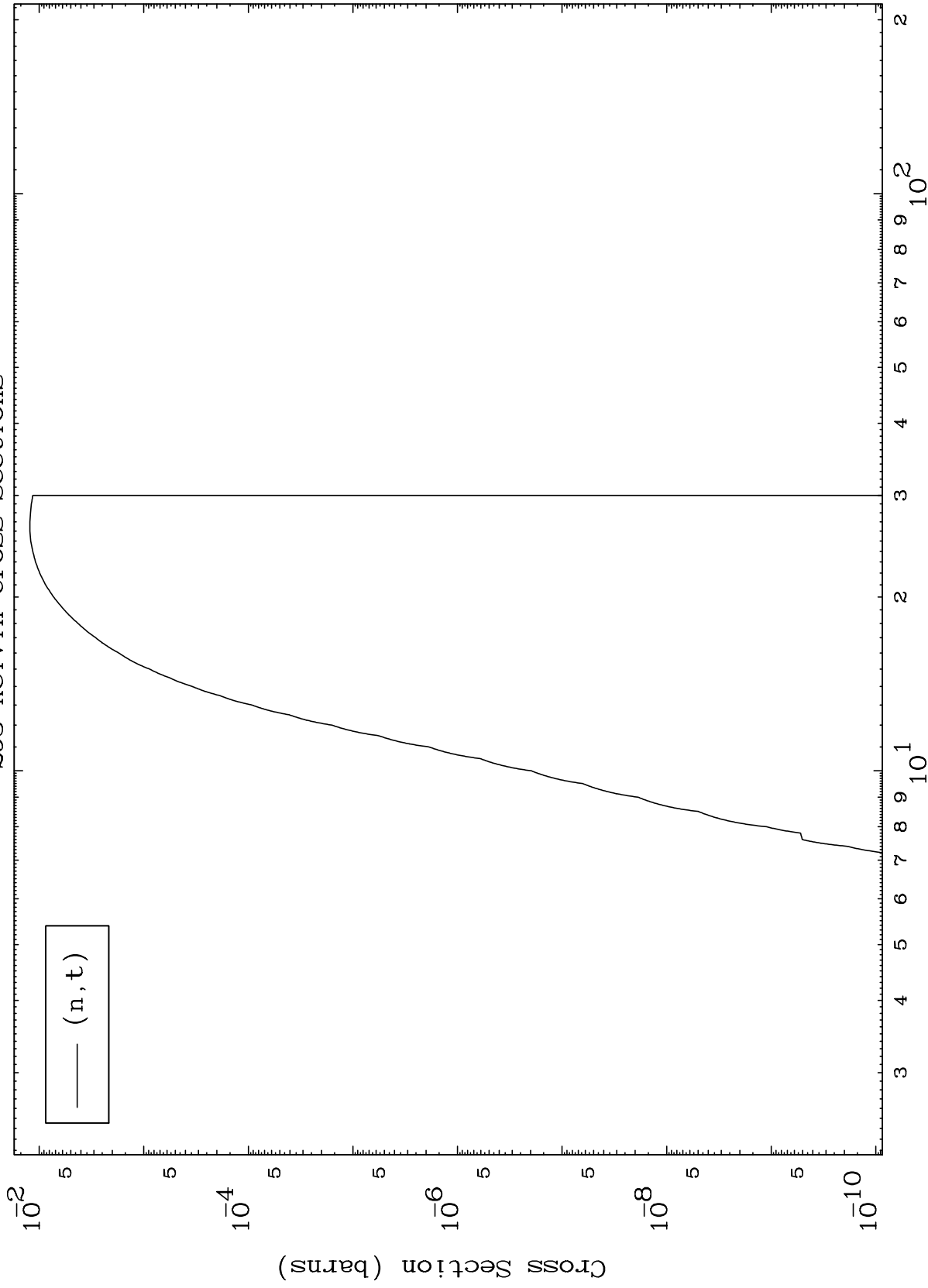
65-Tb-144



MAT 6480

(n,t) Levels
293 Kelvin Cross Sections

65-Tb-144



13

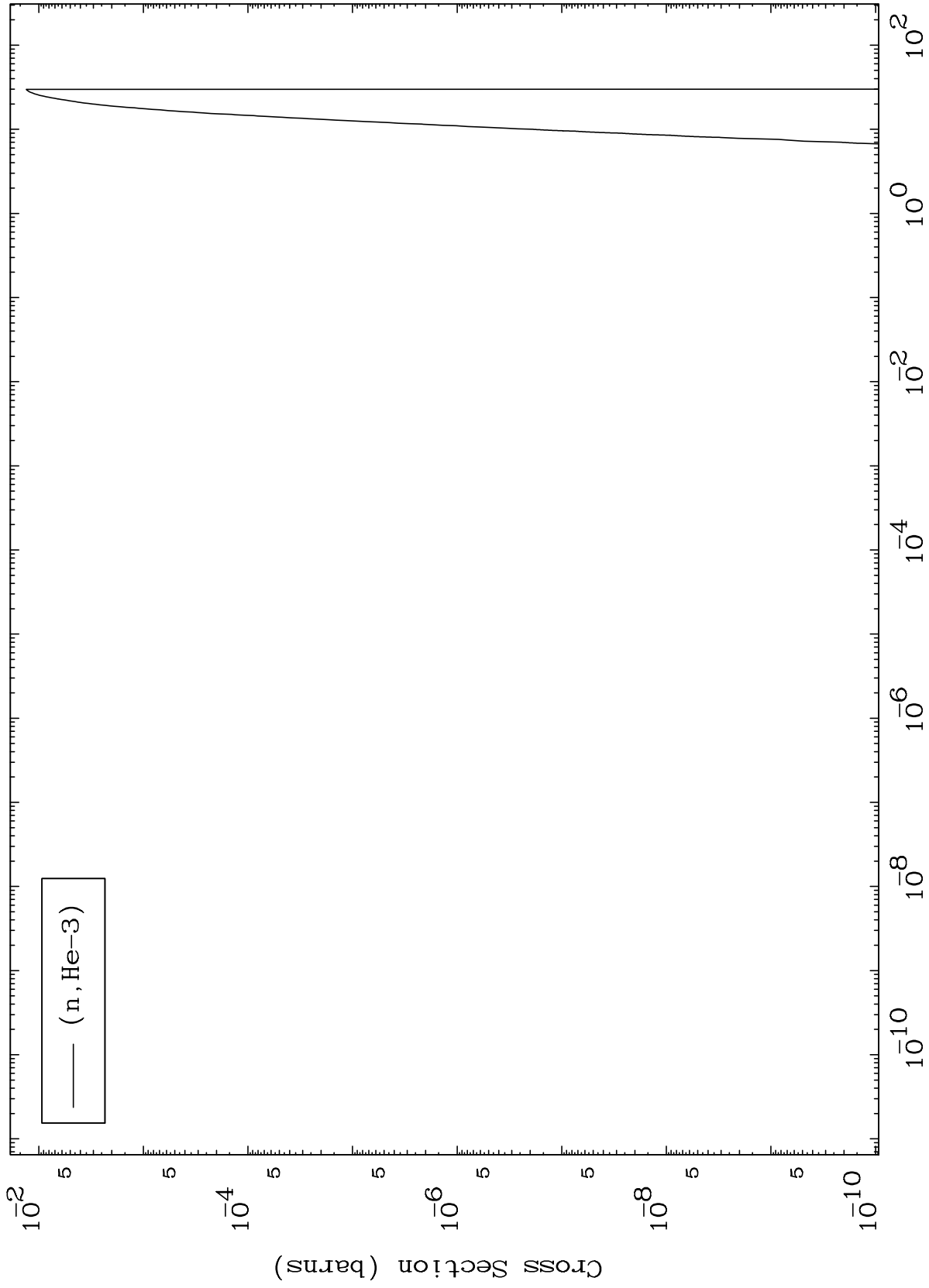
Incident Energy (MeV)

65-Tb-144

MAT 6480

(n,He3) Levels
293 Kelvin Cross Sections

65-Tb-144



14

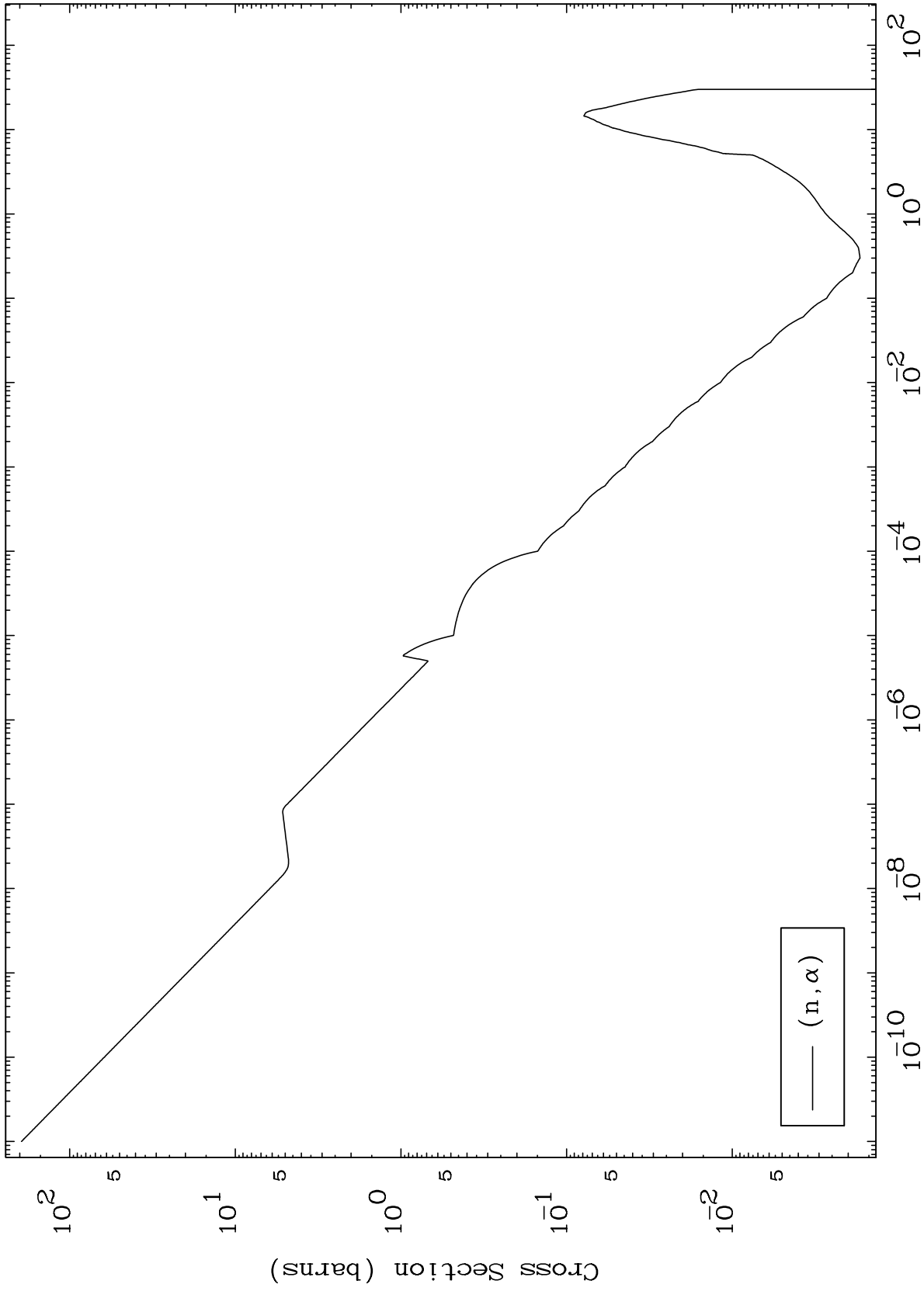
Incident Energy (MeV)

65-Tb-144

MAT 6480

(n,α) Levels
293 Kelvin Cross Sections

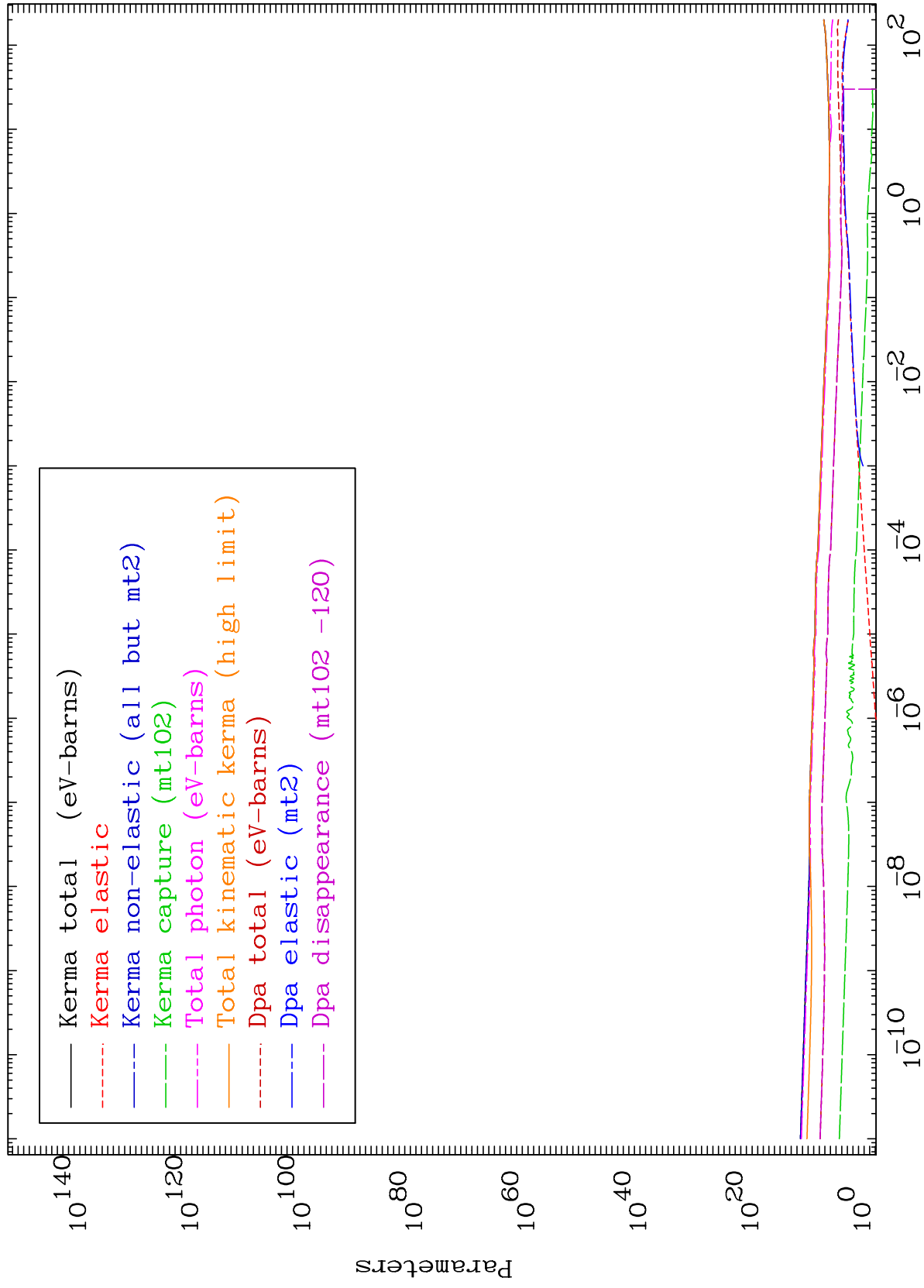
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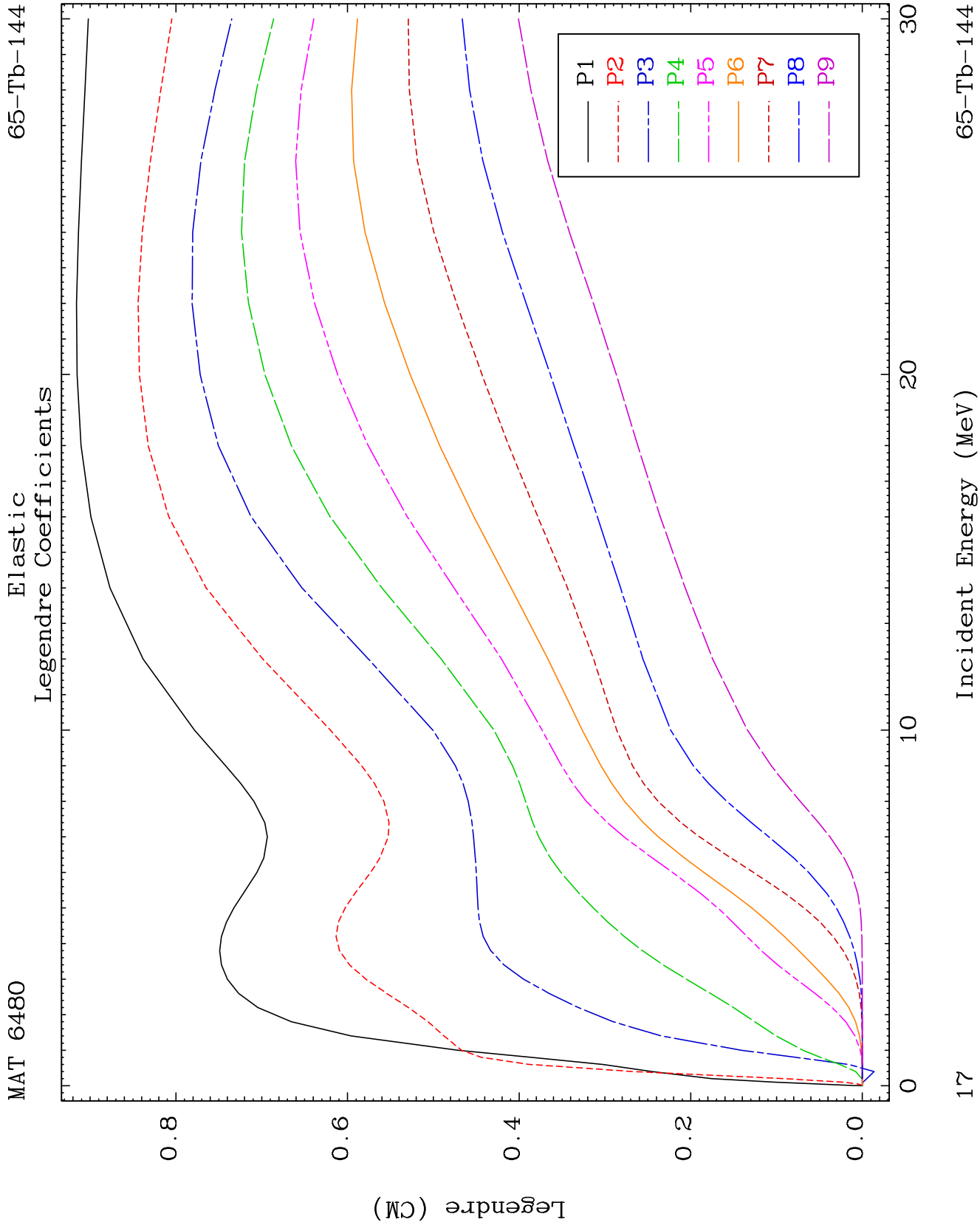


15

Incident Energy (MeV)

65-Tb-144

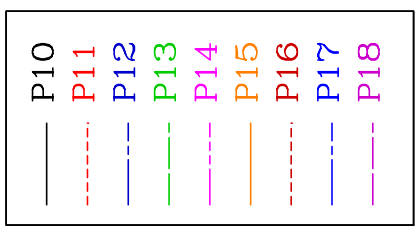
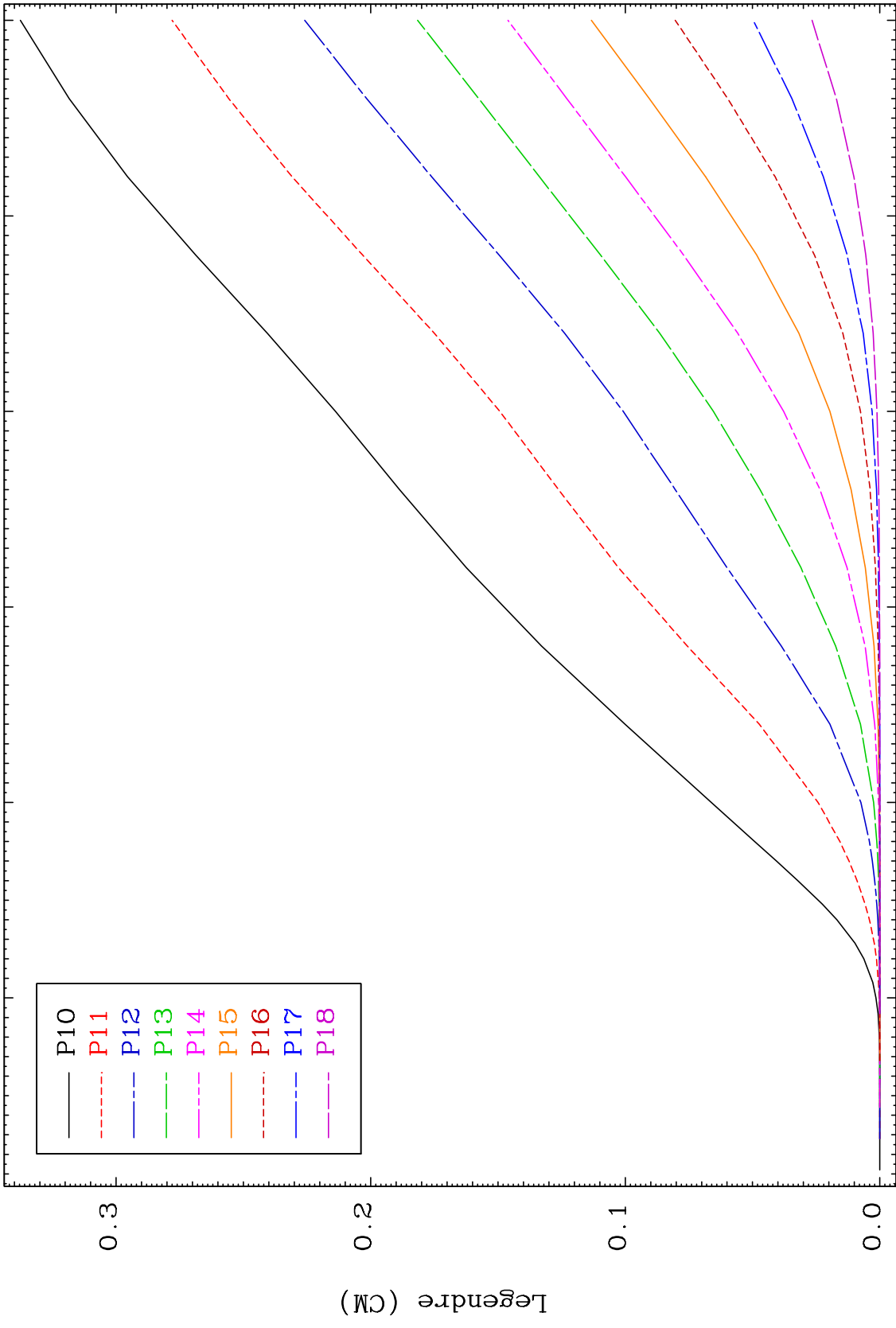




MAT 6480

Elastic Legendre Coefficients

65-Tb-144



Legendre (CM)

18

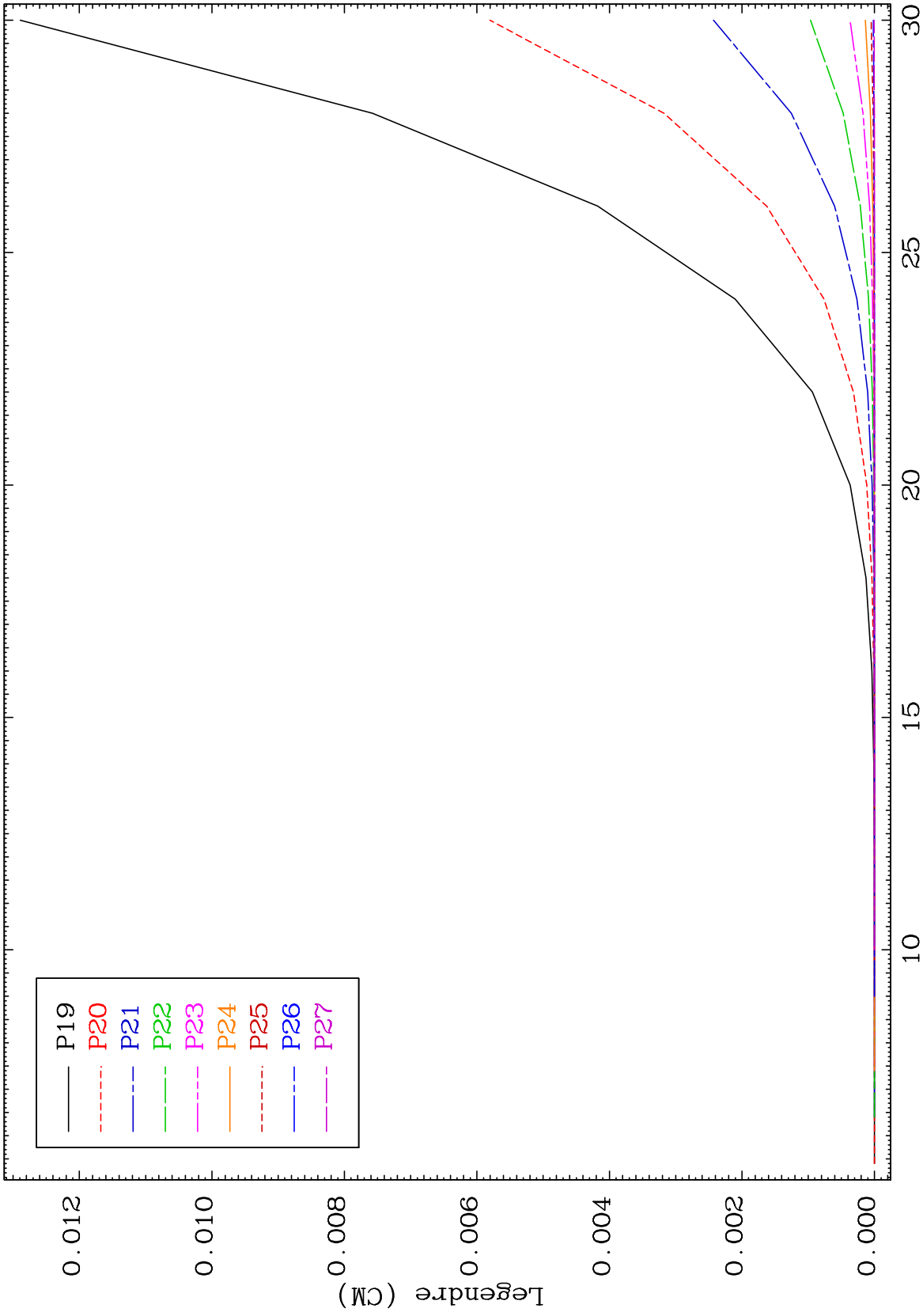
Incident Energy (MeV)

65-Tb-144

MAT 6480

Elastic Legendre Coefficients

65-Tb-144



19

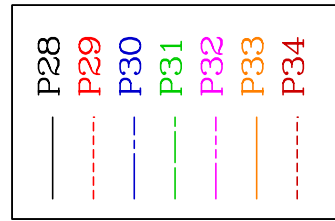
Incident Energy (MeV)

65-Tb-144

MAT 6480

Elastic Legendre Coefficients

65-Tb-144



$\times 10^{-6}$

Legendre (CM)

1.0

0.5

0.0

10

15

20

25

30

20

15

20

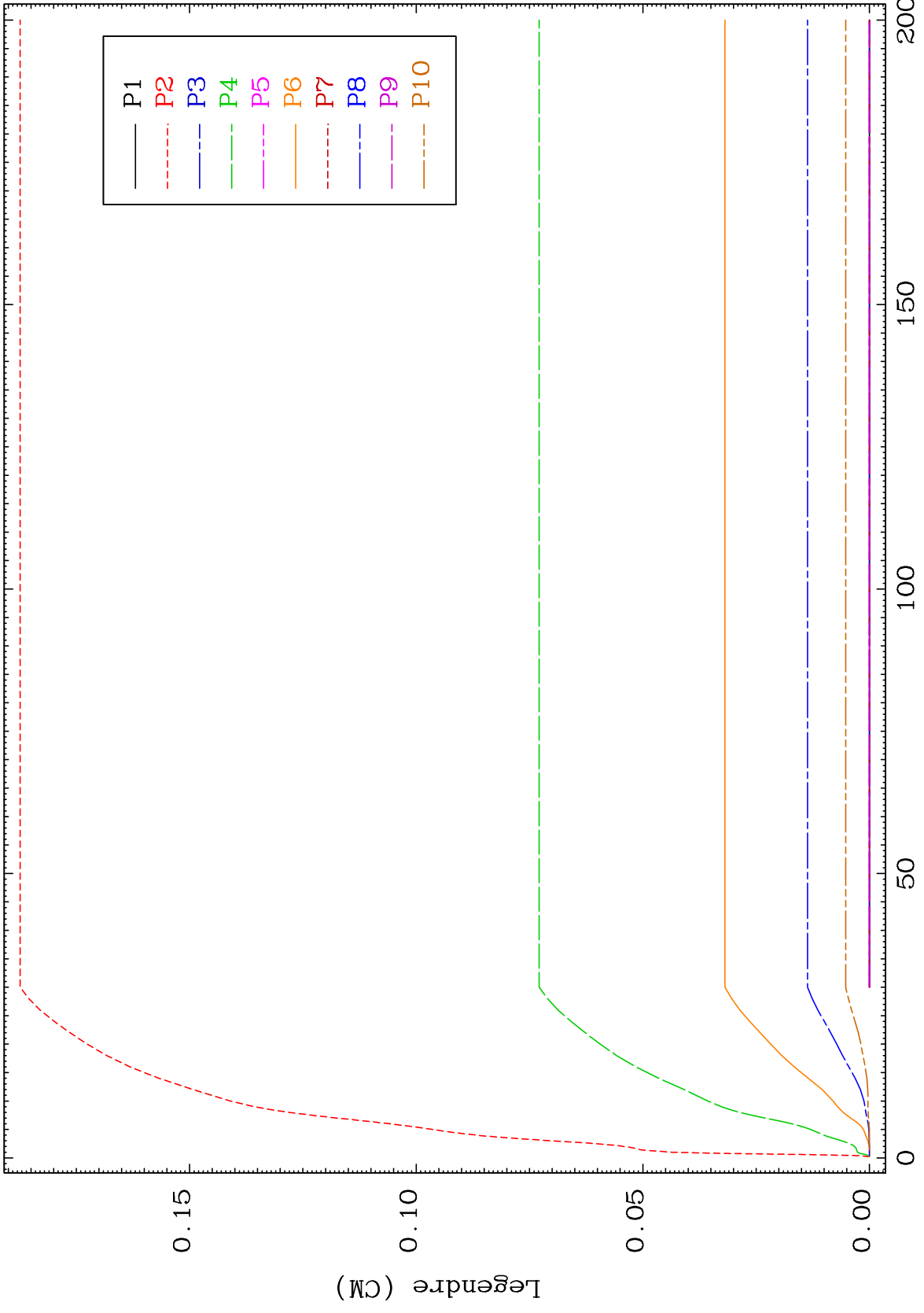
25

30

Incident Energy (MeV)

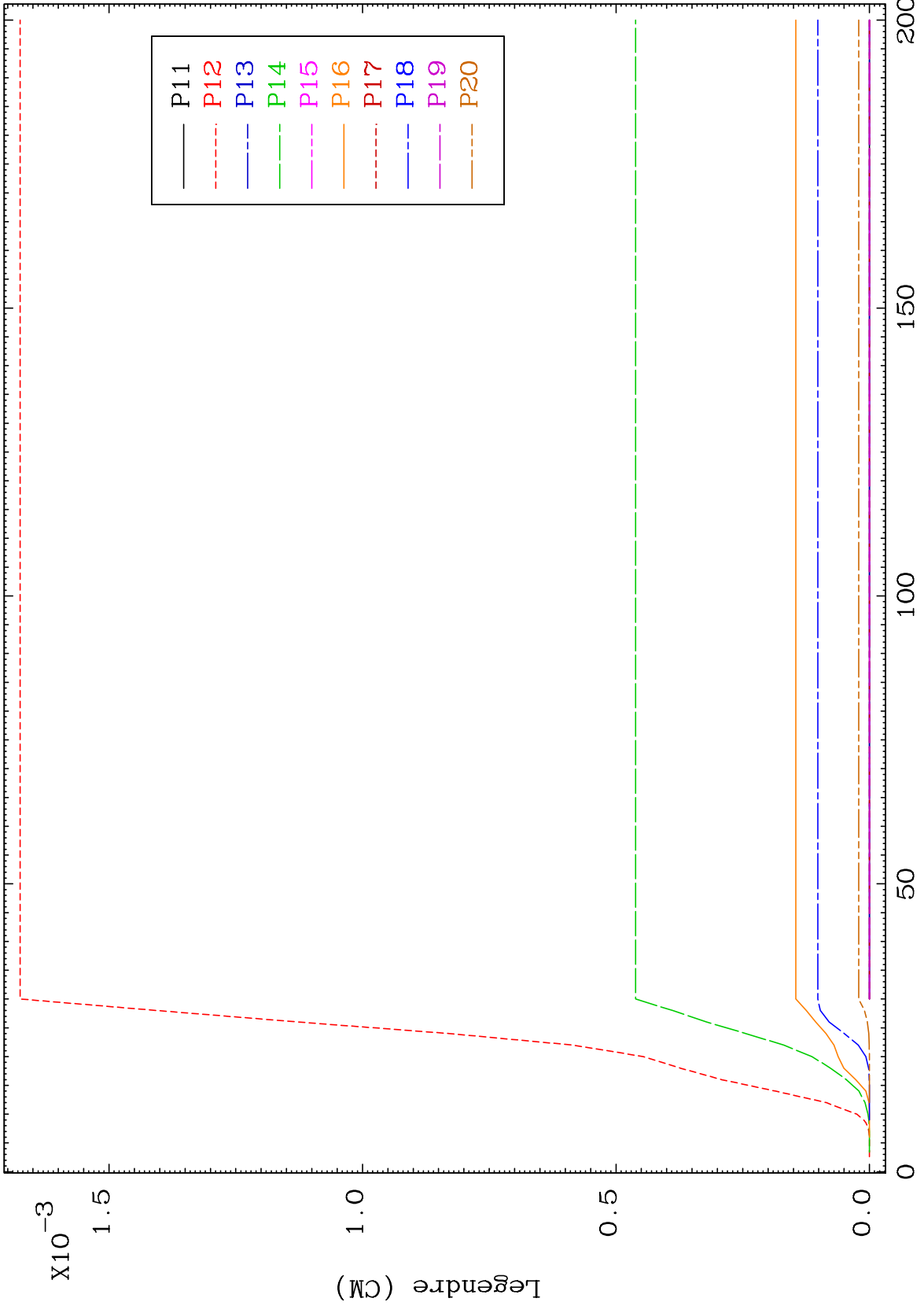
65-Tb-144

MAT 6480 MT= 51 (n,n') Level Legendre Coefficients 65-Tb-144



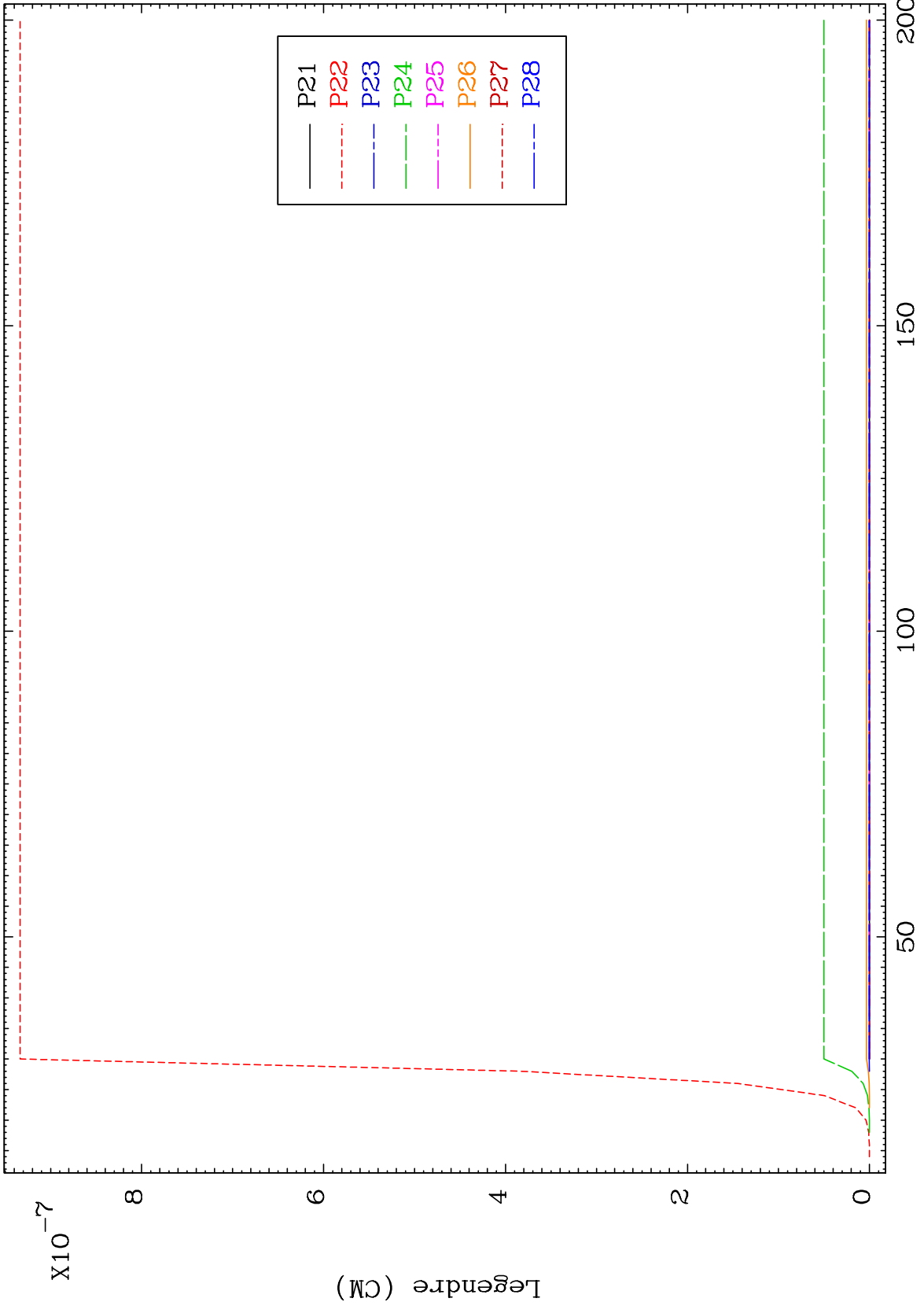
21 65-Tb-144

MAT 6480 MT= 51 (n,n') Level Legendre Coefficients 65-Tb-144



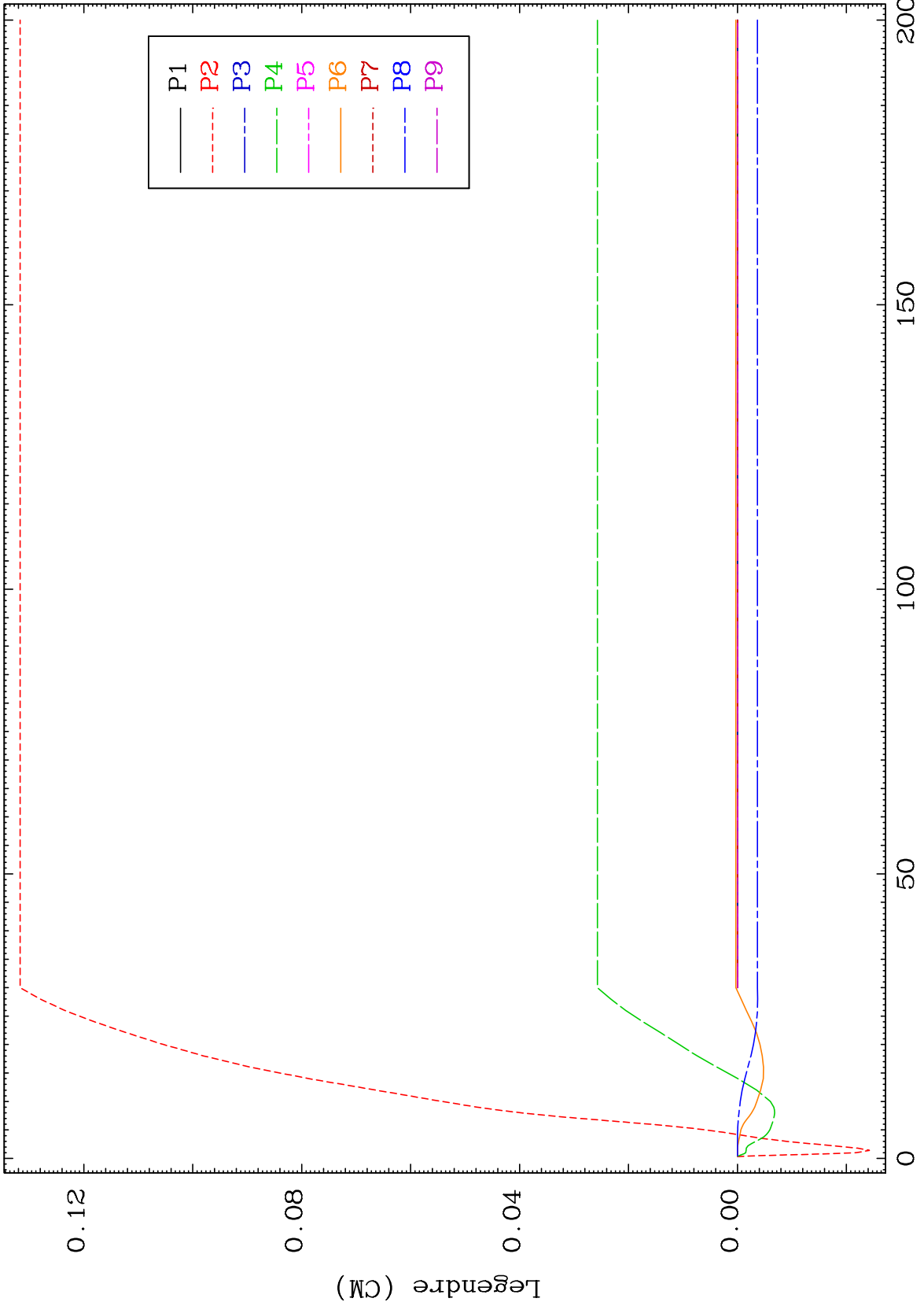
22 Incident Energy (MeV) 65-Tb-144

MAT 6480 MT= 51 (n,n') Level Legendre Coefficients 65-Tb-144



23 65-Tb-144

MAT 6480 MT= 52 (n,n') Level Legendre Coefficients 65-Tb-144

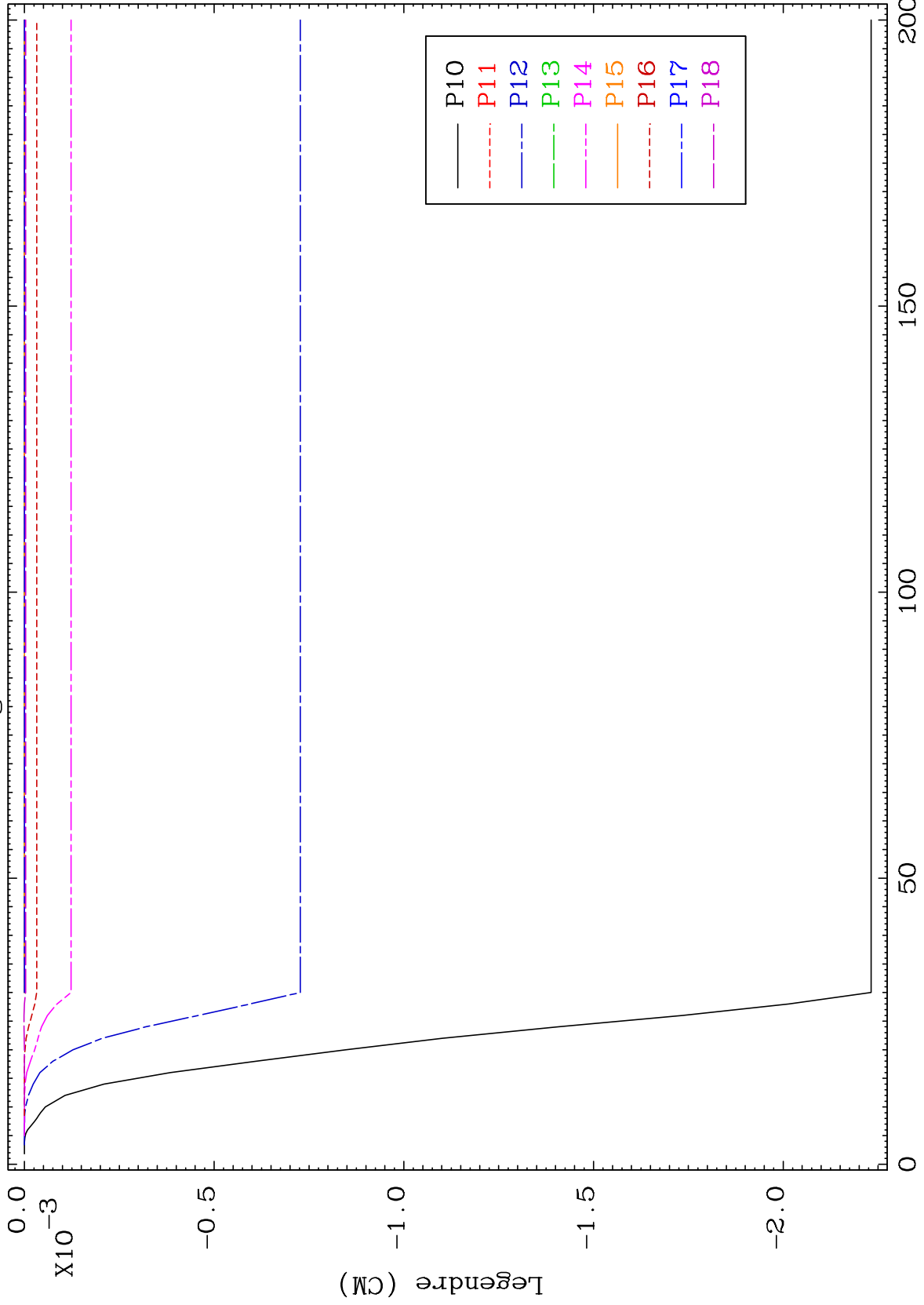


24 65-Tb-144

MAT 6480

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

65-Tb-144

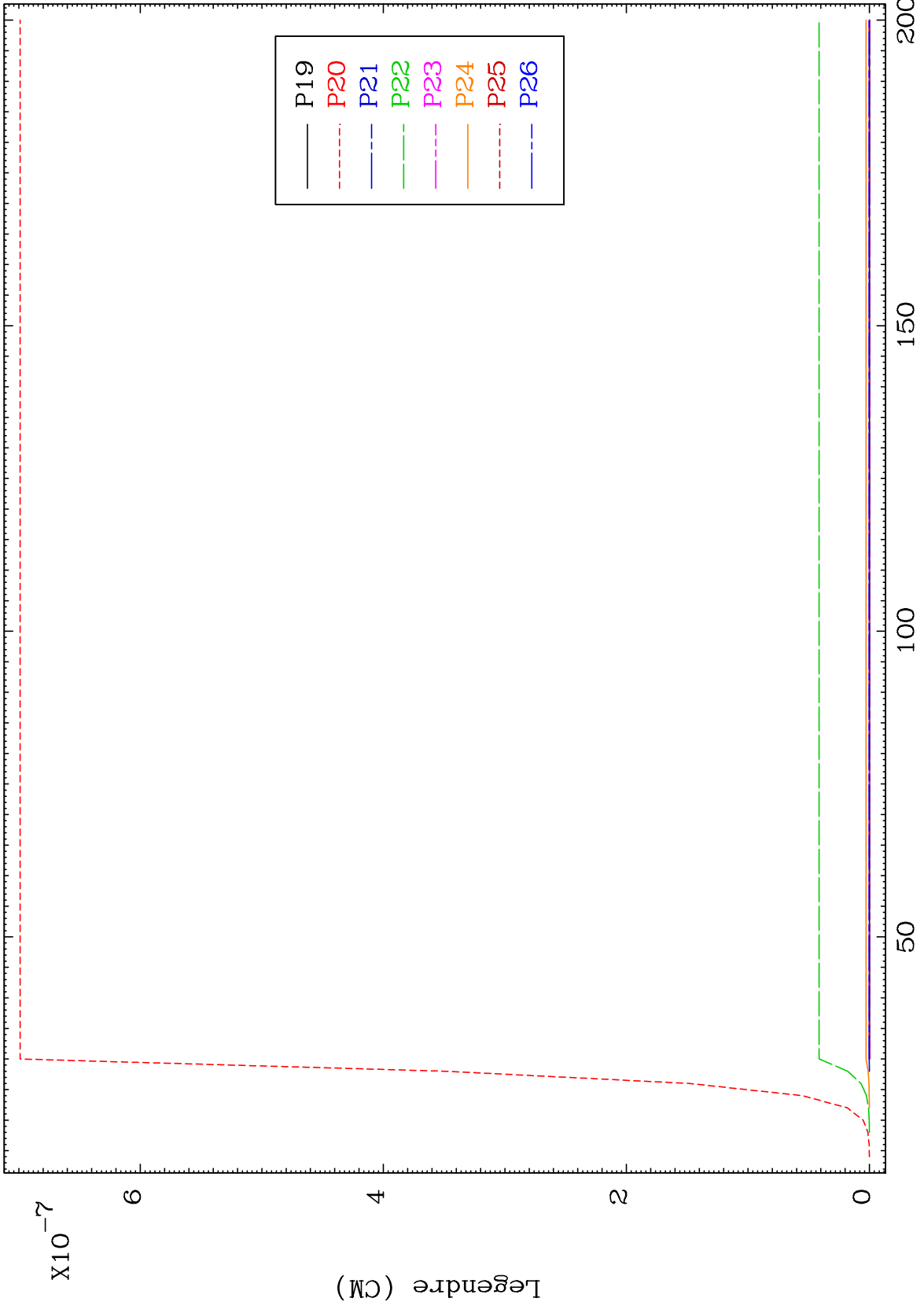


65-Tb-144

Incident Energy (MeV)

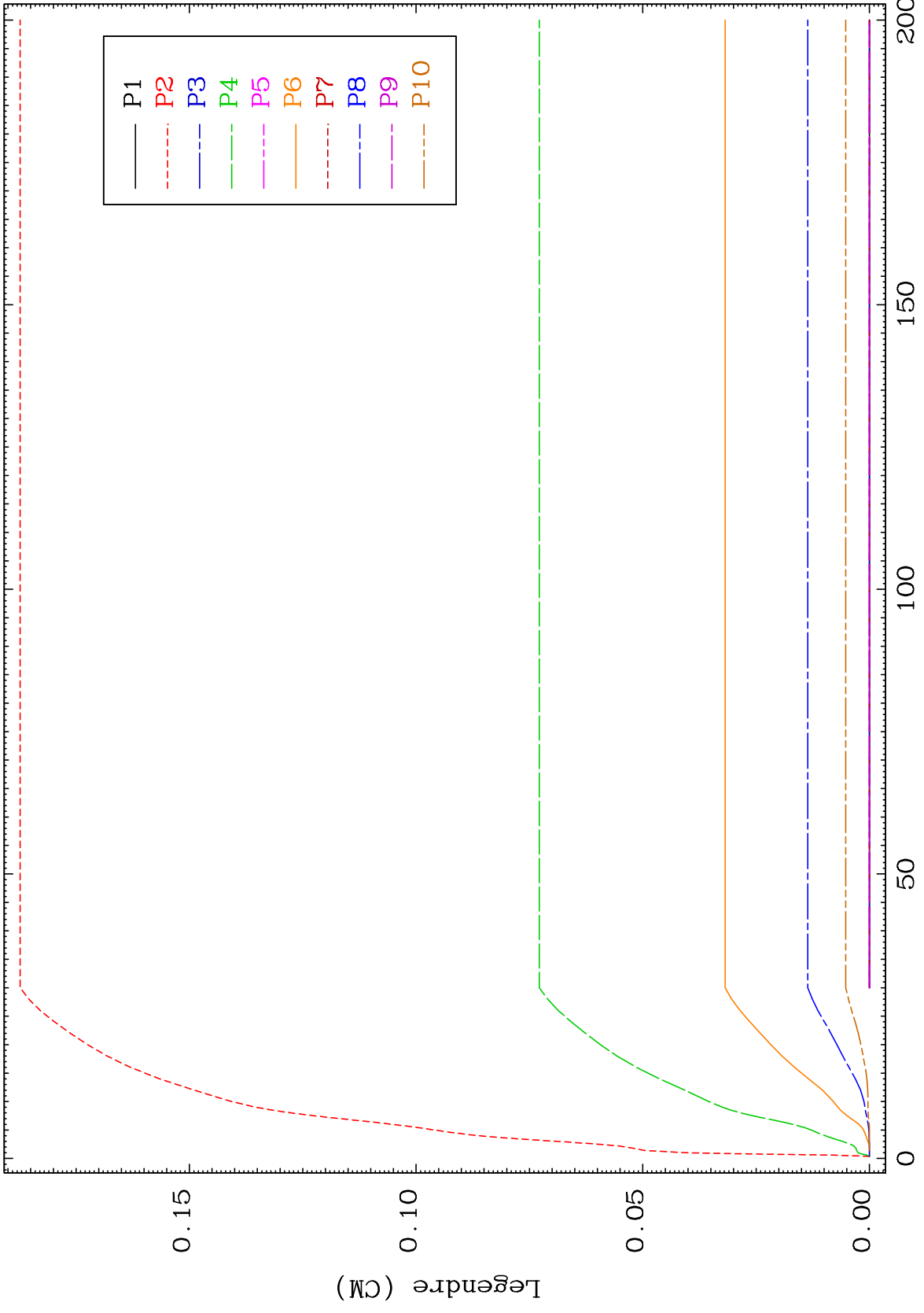
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MAT 6480 MT= 52 (n,n') Level Legendre Coefficients 65-Tb-144



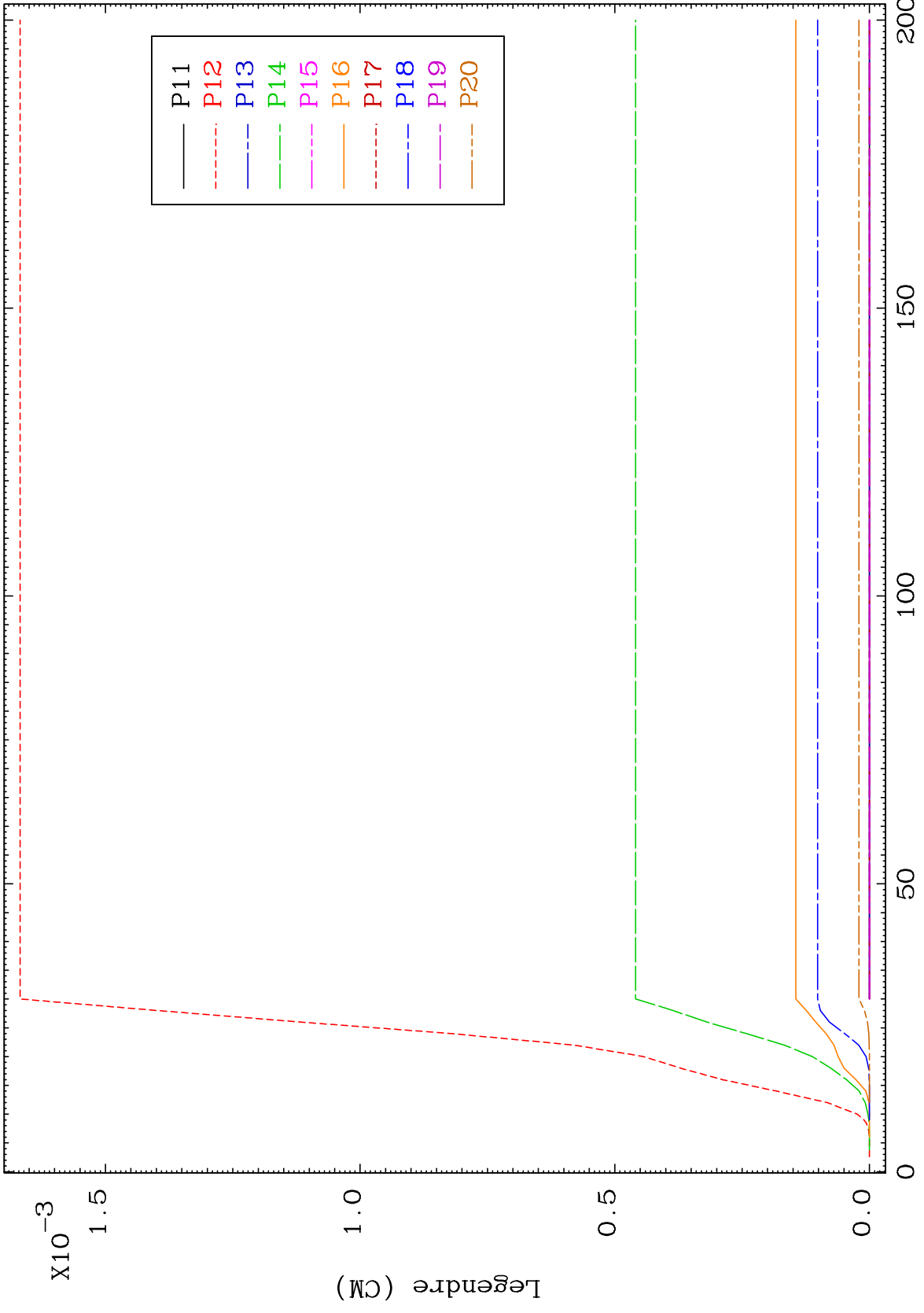
26 Incident Energy (MeV) 65-Tb-144

MAT 6480 MT= 53 (n,n') Level Legendre Coefficients 65-Tb-144



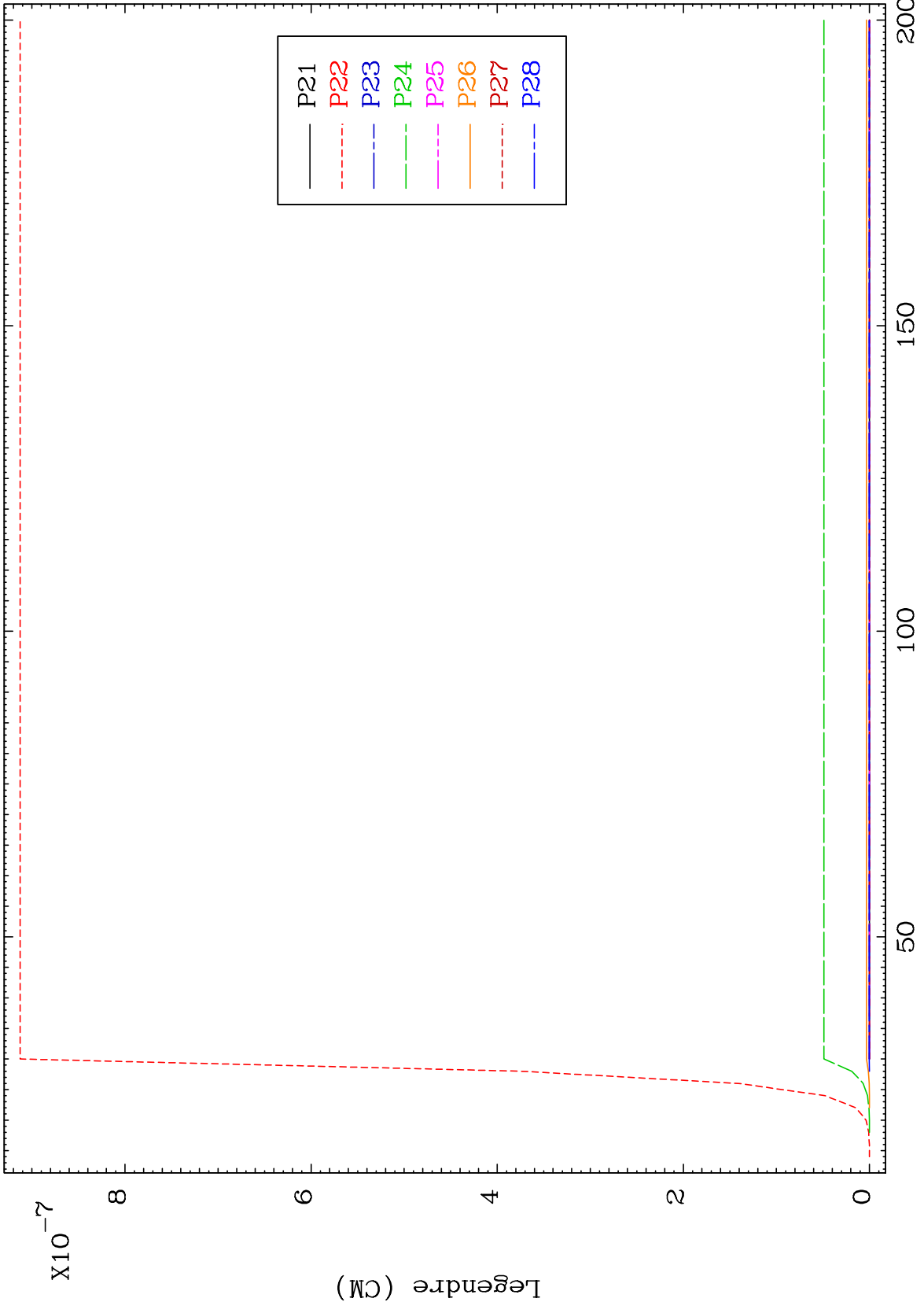
27 Incident Energy (MeV) 65-Tb-144

MAT 6480 MT= 53 (n,n') Level Legendre Coefficients 65-Tb-144



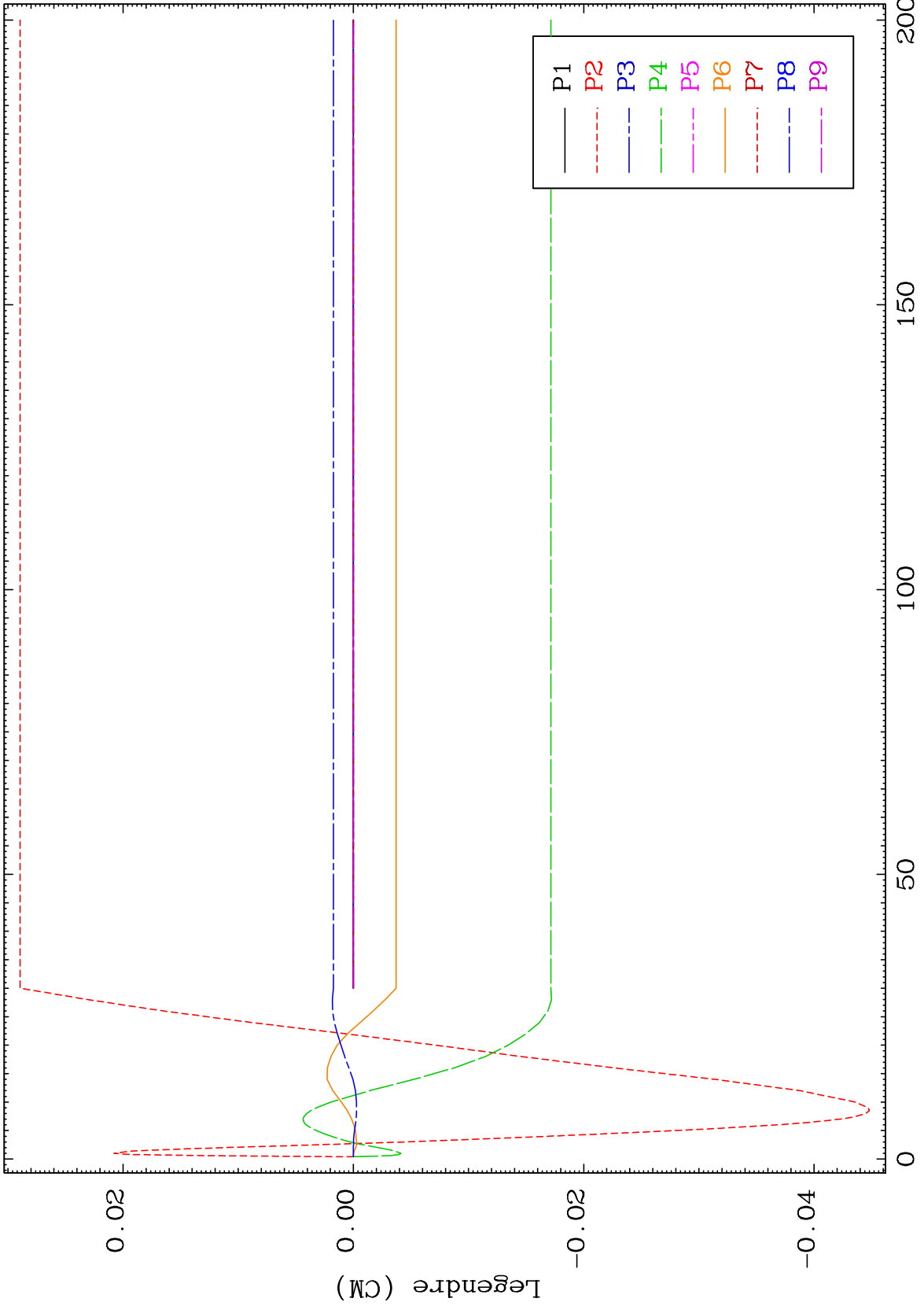
28 Incident Energy (MeV) 65-Tb-144

MAT 6480 MT= 53 (n,n') Level Legendre Coefficients 65-Tb-144



29 Incident Energy (MeV) 65-Tb-144

MAT 6480 MT= 54 (n,n') Level Legendre Coefficients 65-Tb-144

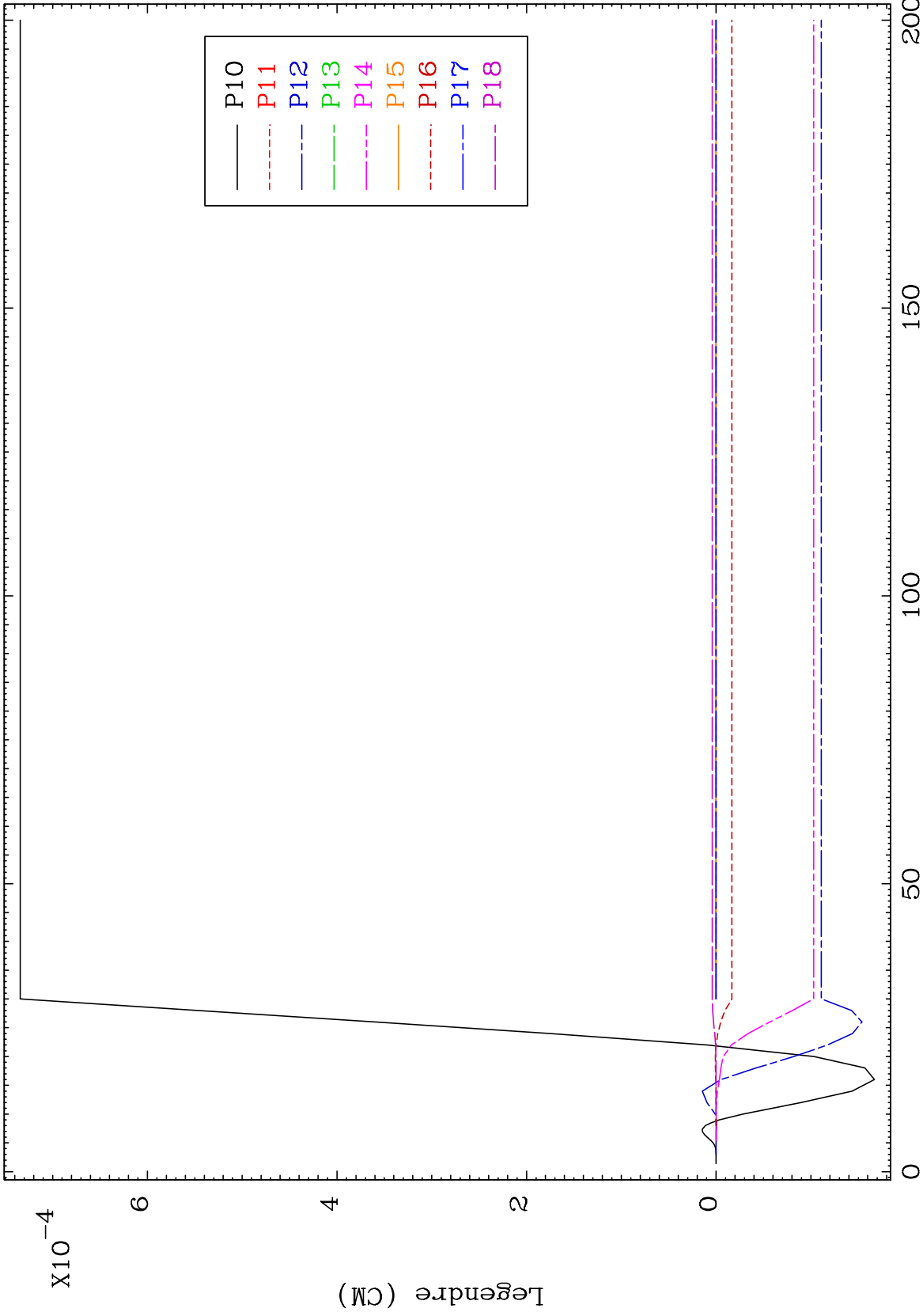


65-Tb-144

MAT 6480

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

65-Tb-144

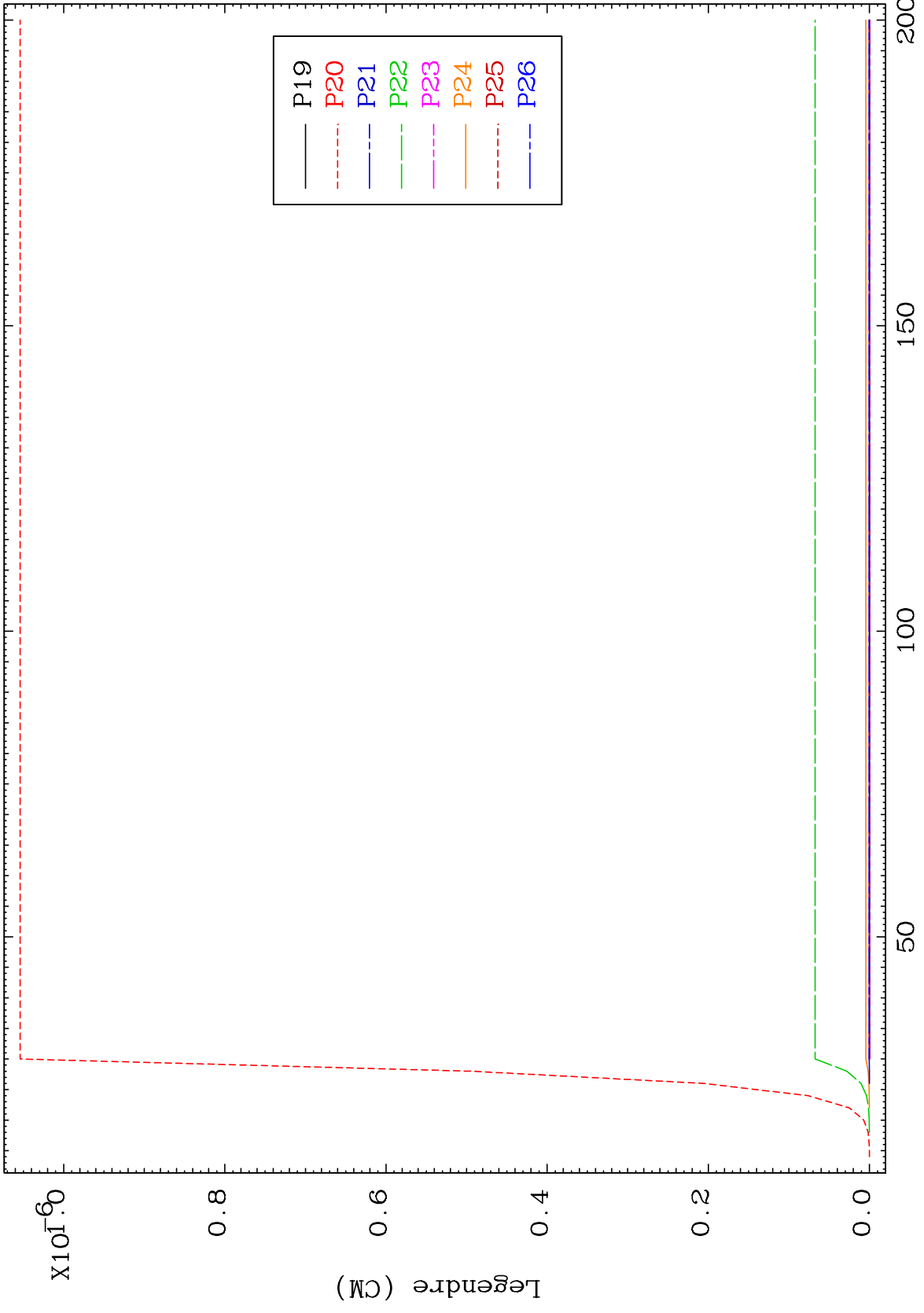


31

Incident Energy (MeV)

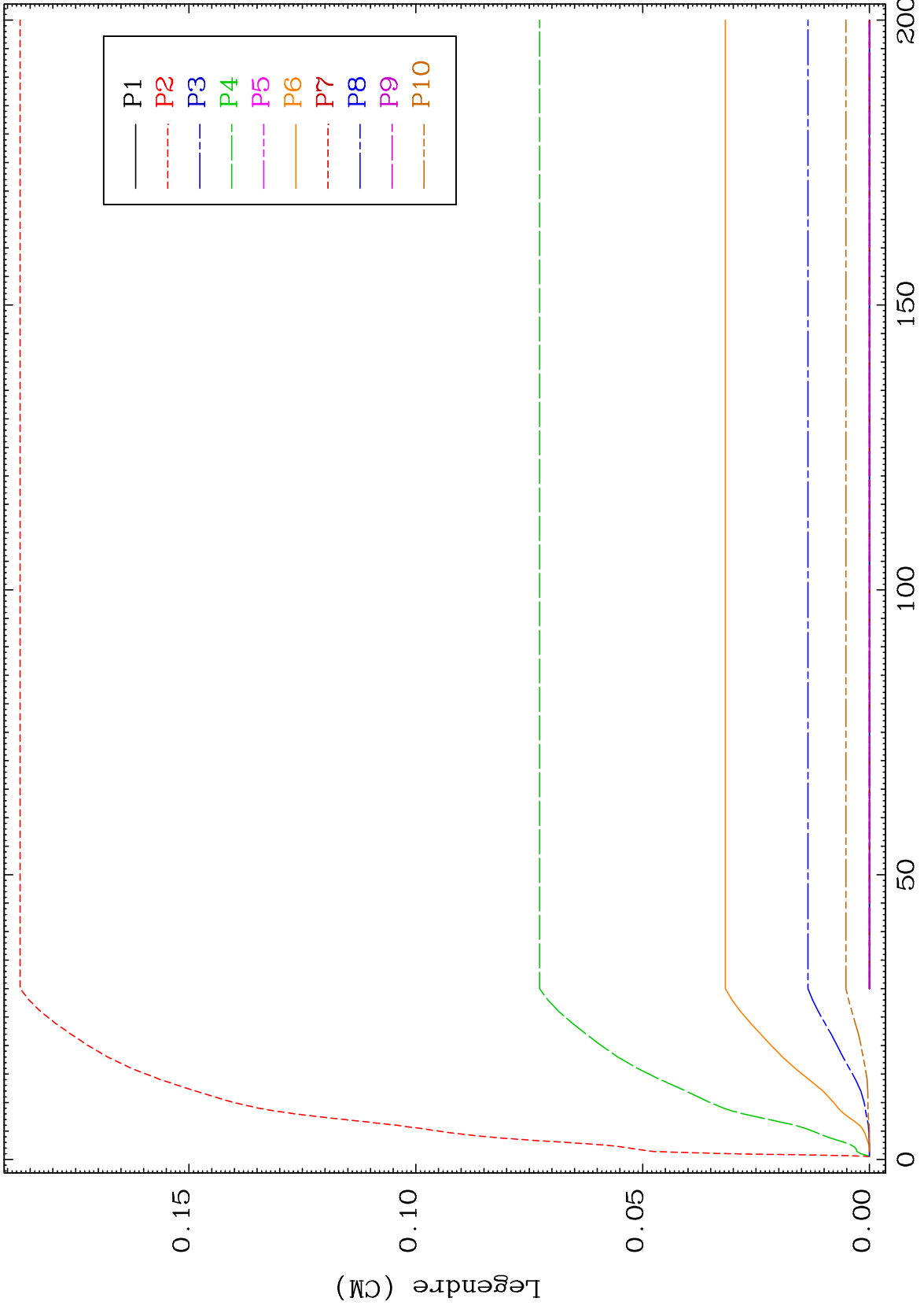
65-Tb-144

MAT 6480 MT= 54 (n,n') Level Legendre Coefficients 65-Tb-144



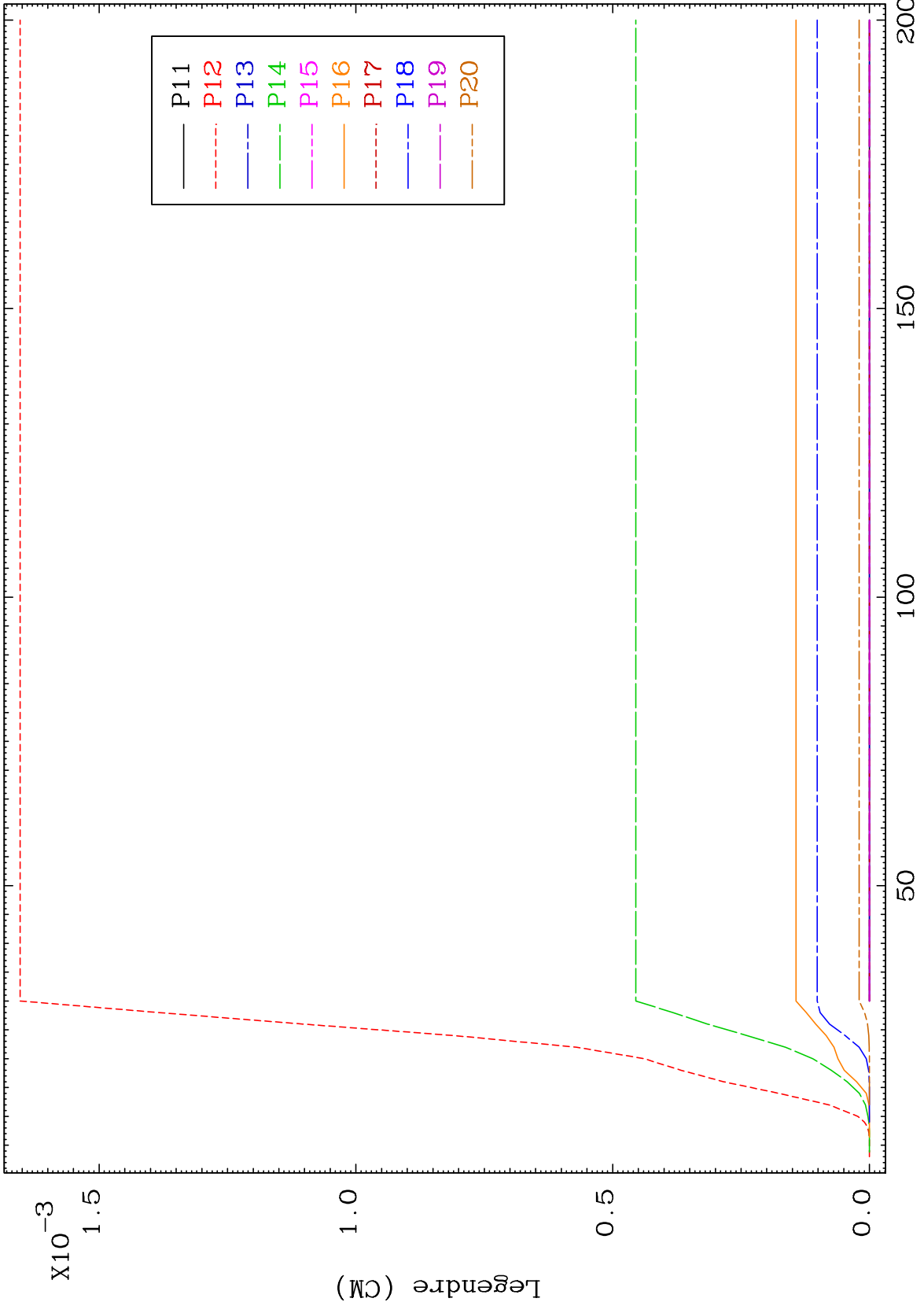
32 50 100 150 200 65-Tb-144

MAT 6480 MT= 55 (n,n') Level Legendre Coefficients 65-Tb-144

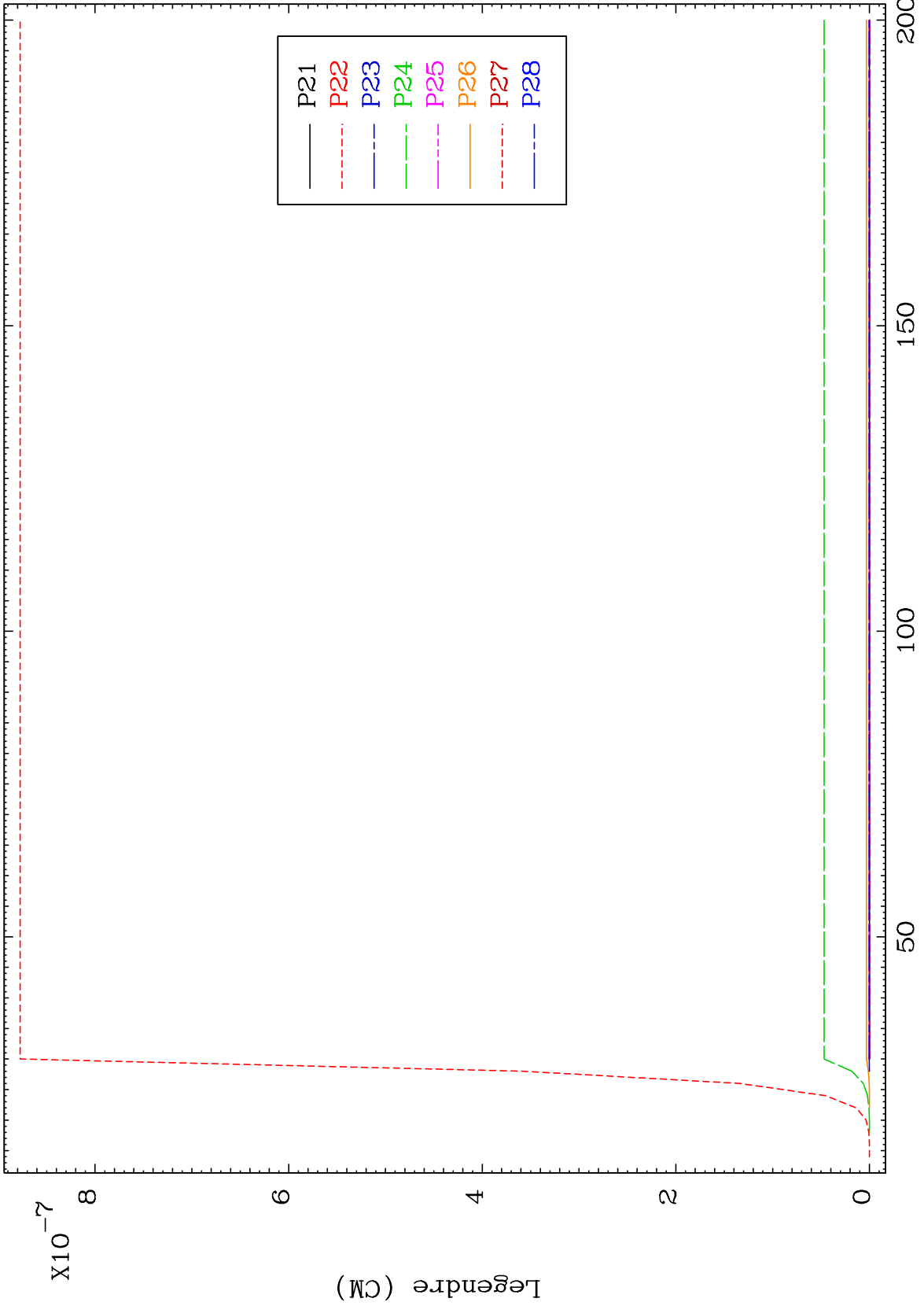


33 Incident Energy (MeV) 65-Tb-144

MAT 6480 MT= 55 (n,n') Level Legendre Coefficients 65-Tb-144

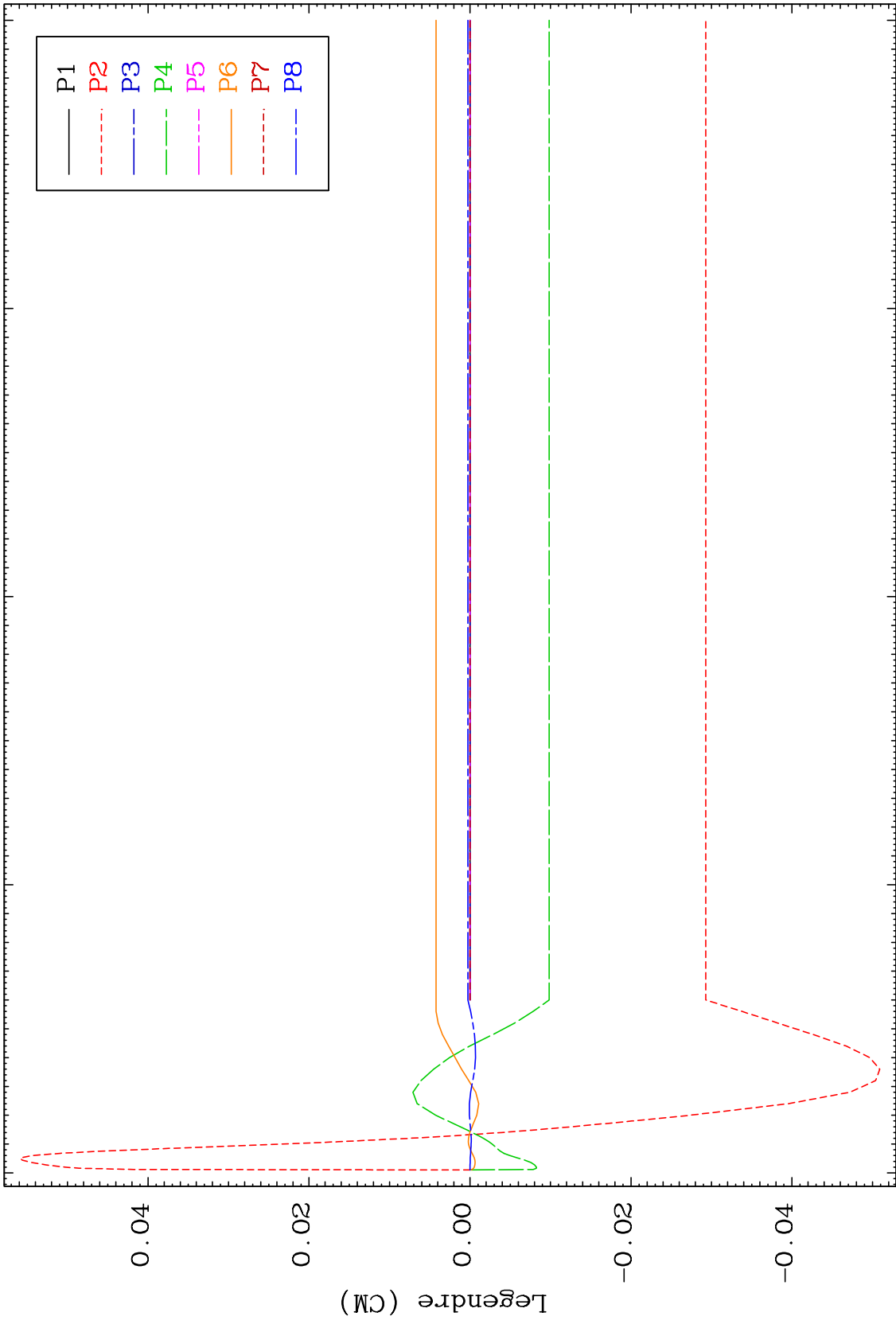


MAT 6480 MT= 55 (n,n') Level Legendre Coefficients 65-Tb-144



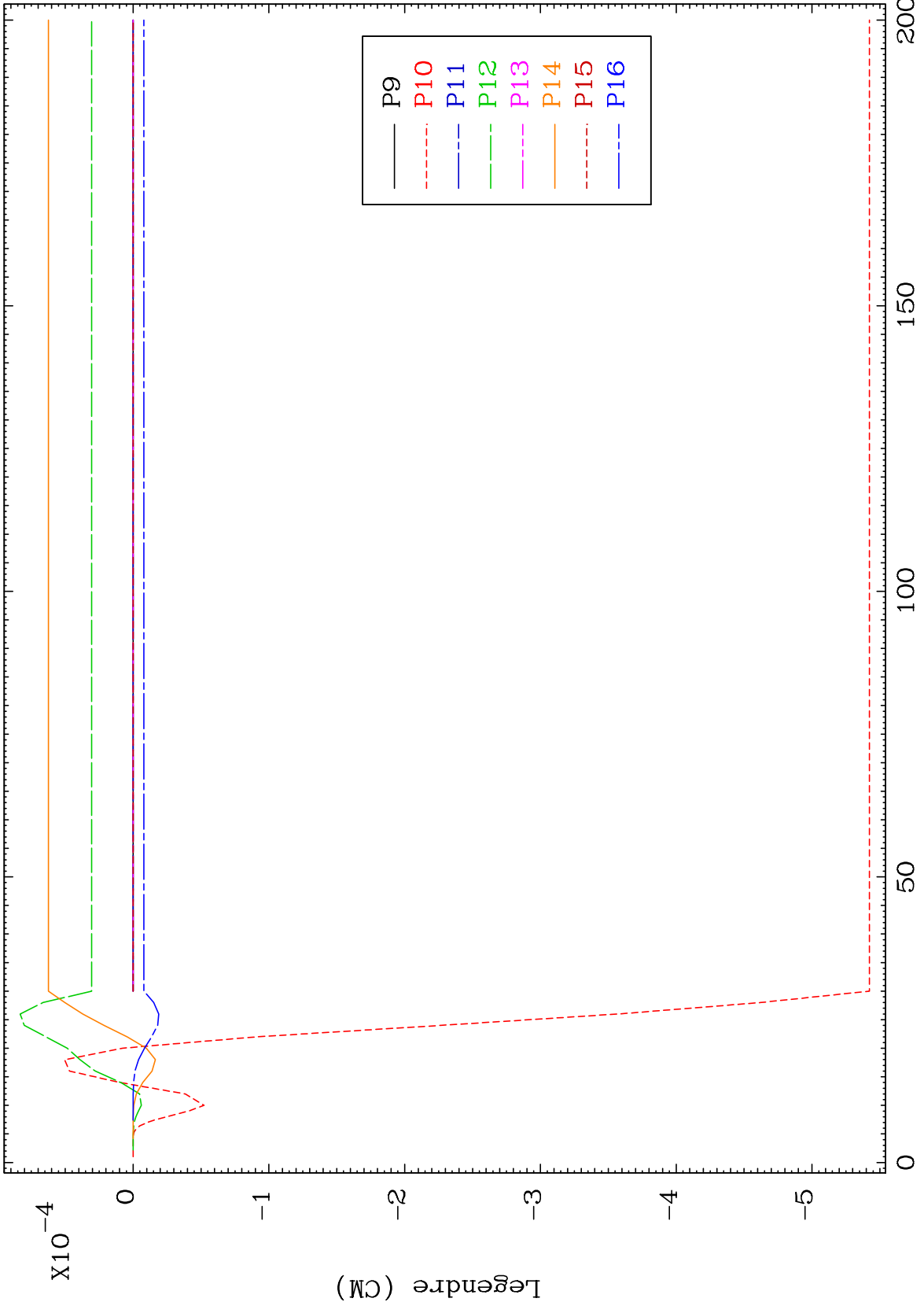
35 50 100 150 200 Incident Energy (MeV) 65-Tb-144

MAT 6480 MT= 56 (n,n') Level Legendre Coefficients 65-Tb-144



36 Incident Energy (MeV) 65-Tb-144

MAT 6480 MT= 56 (n,n') Level Legendre Coefficients 65-Tb-144

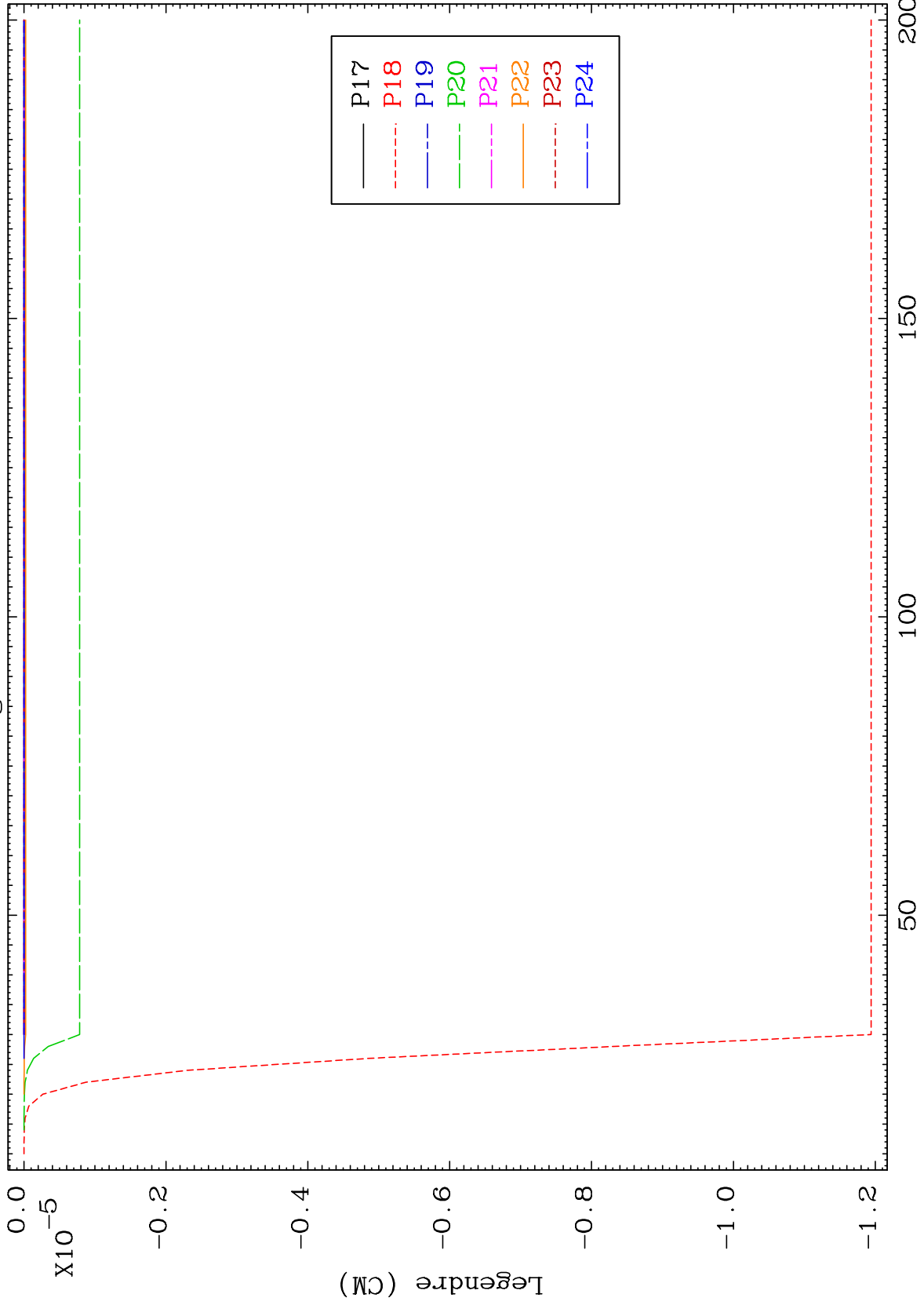


37 65-Tb-144

MAT 6480

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

65-Tb-144



65-Tb-144

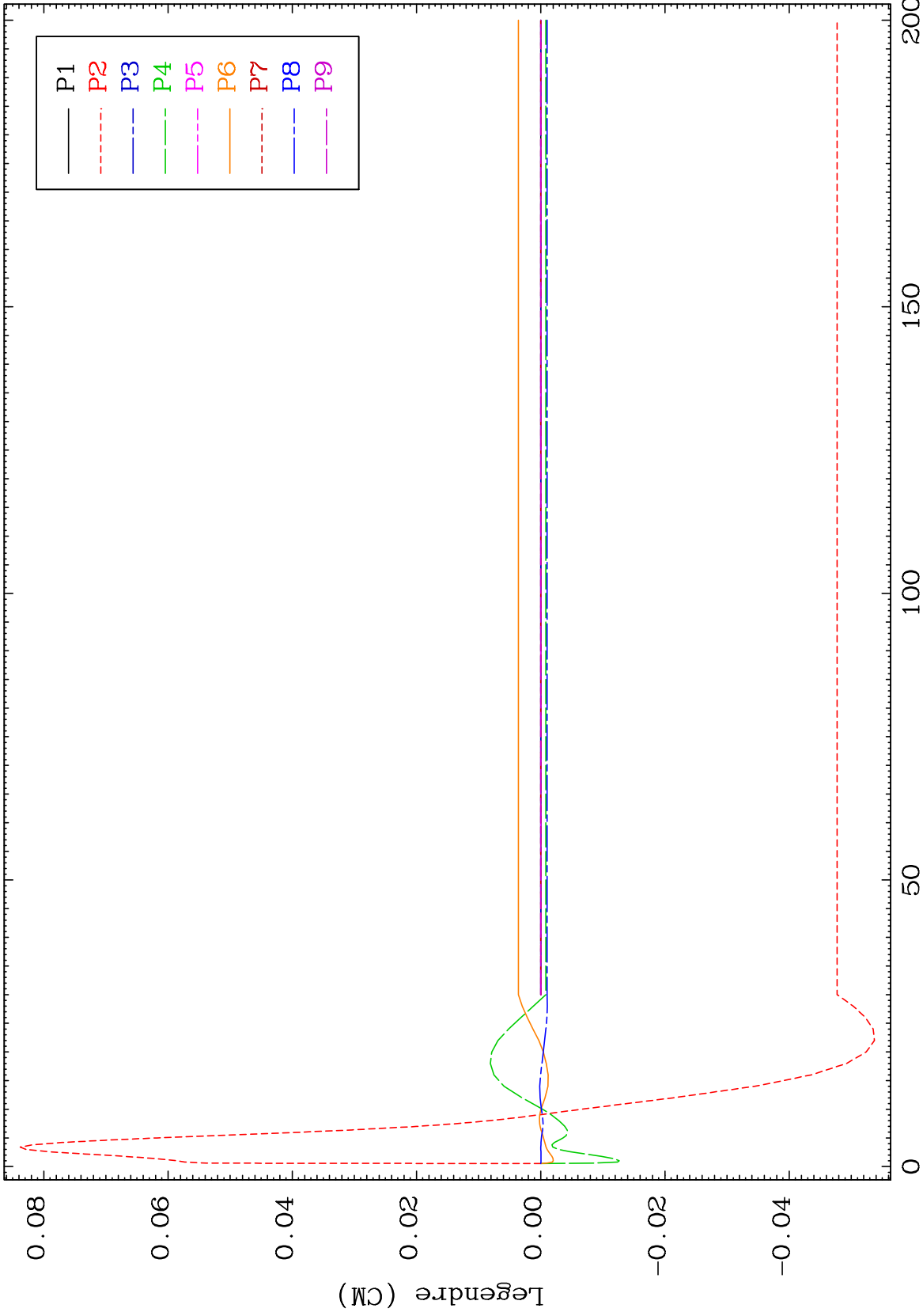
Incident Energy (MeV)

38

MAT 6480

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

65-Tb-144



39

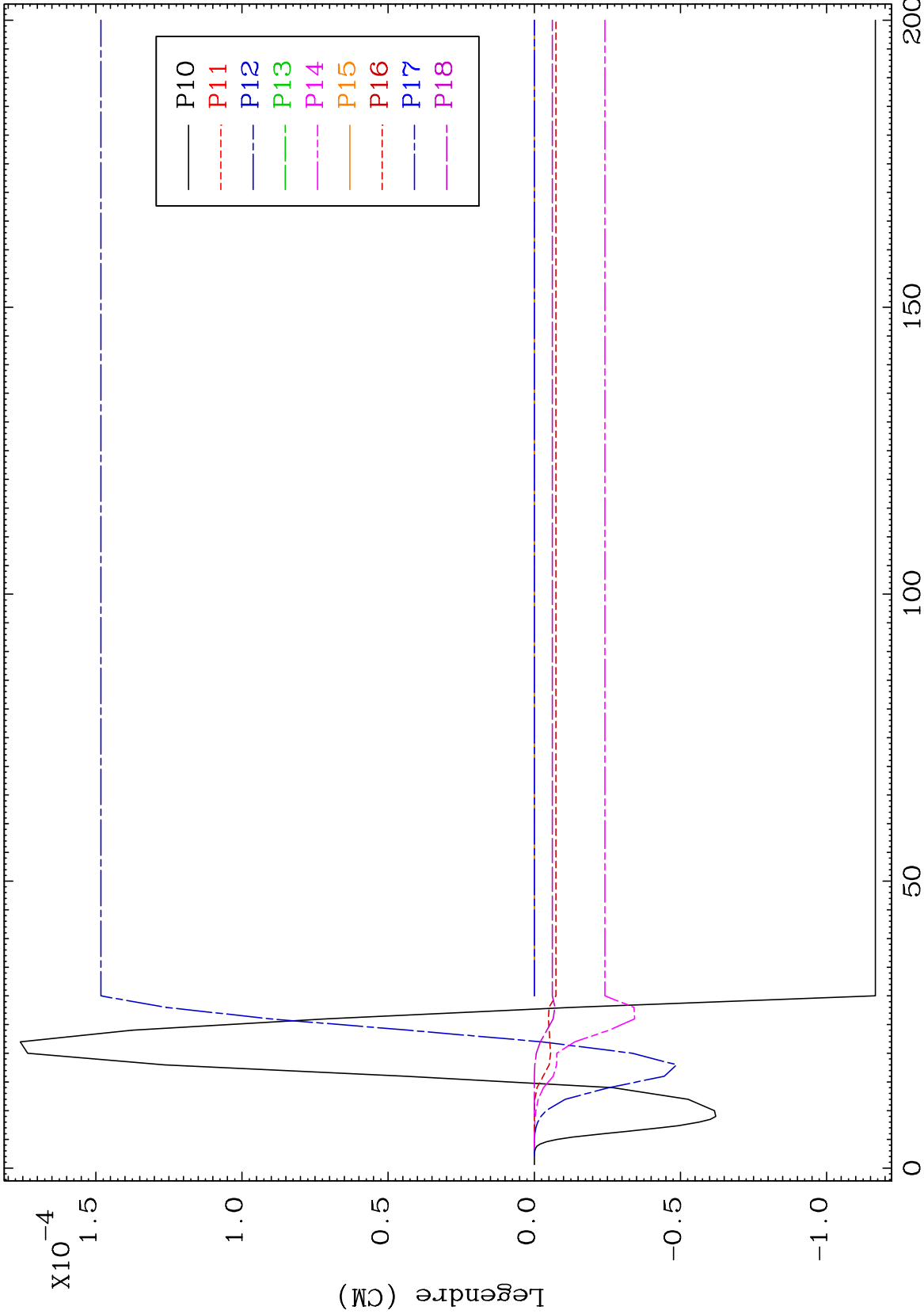
Incident Energy (MeV)

65-Tb-144

MAT 6480

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

65-Tb-144

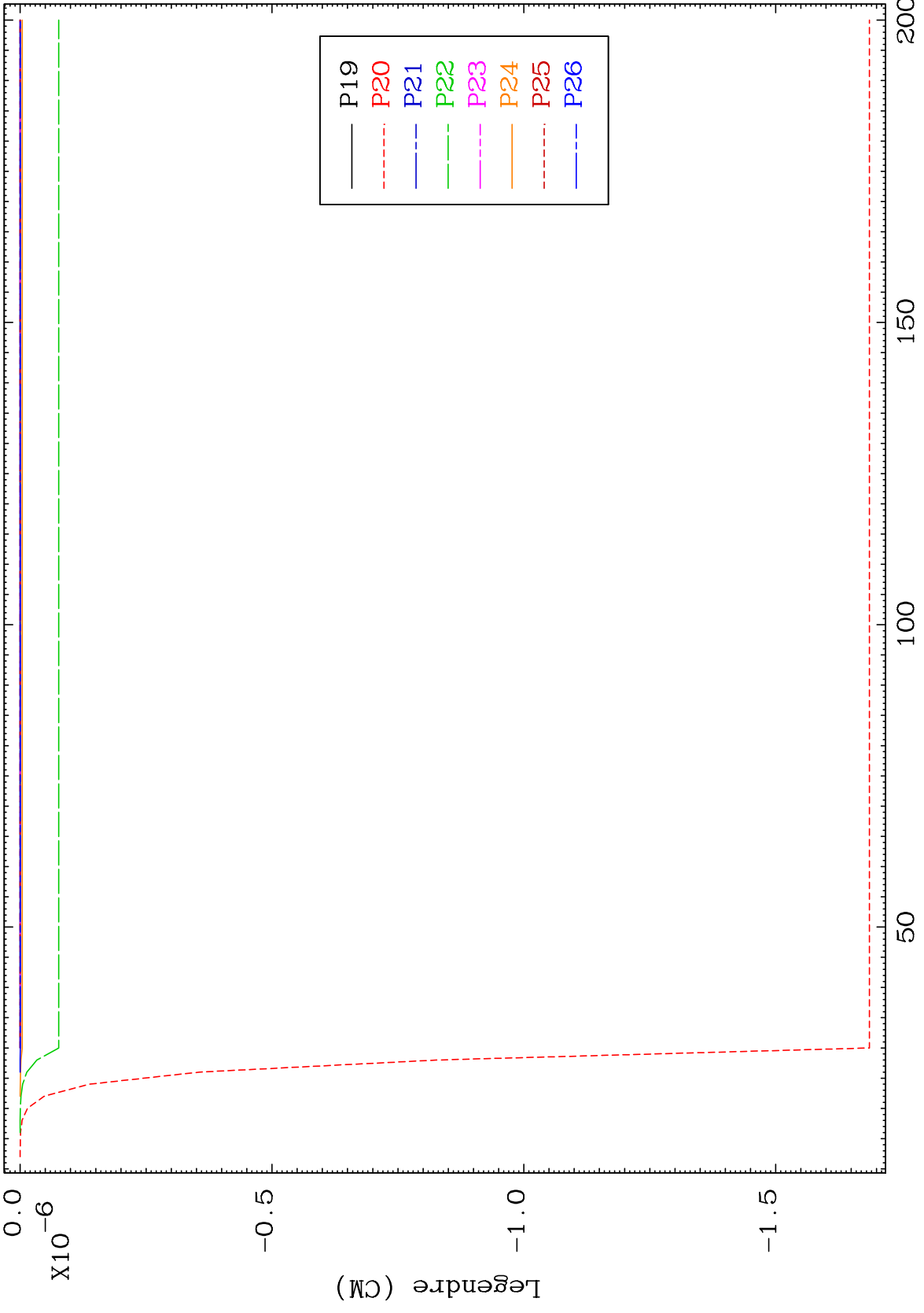


40

Incident Energy (MeV)

65-Tb-144

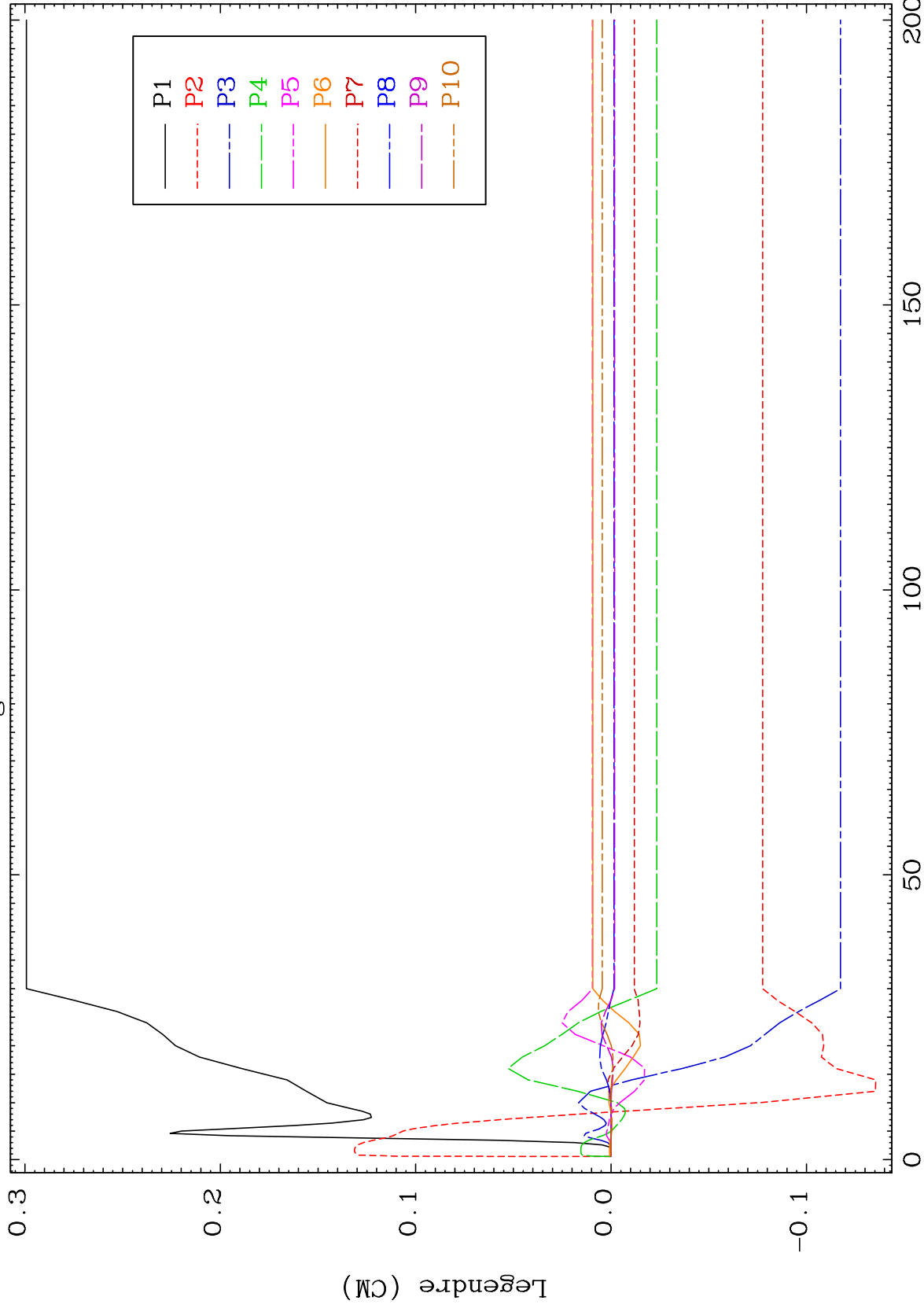
MAT 6480 MT= 57 (n,n') Level Legendre Coefficients 65-Tb-144



MAT 6480

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

65-Tb-144



42

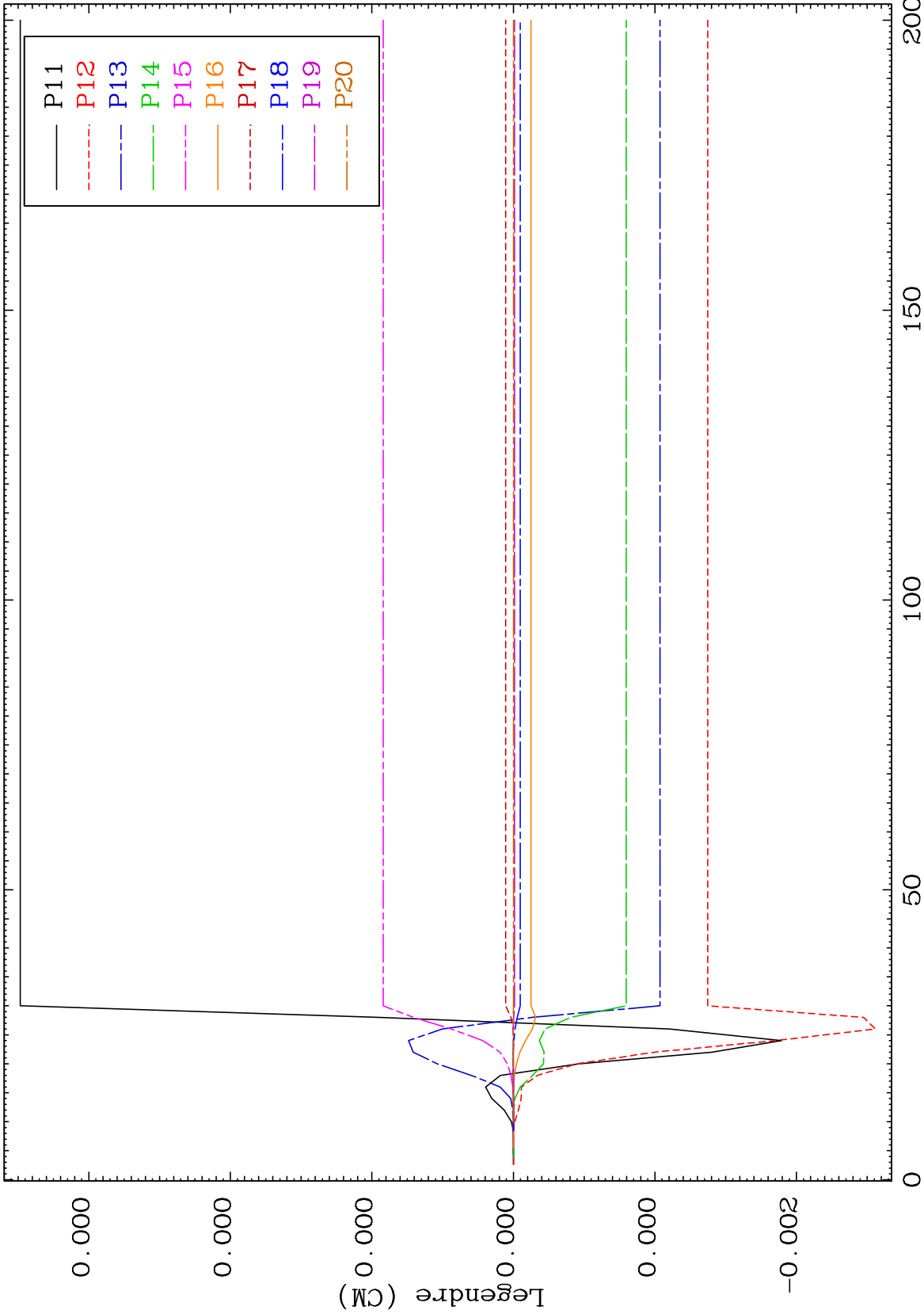
Incident Energy (MeV)

65-Tb-144

MAT 6480

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

65-Tb-144



43

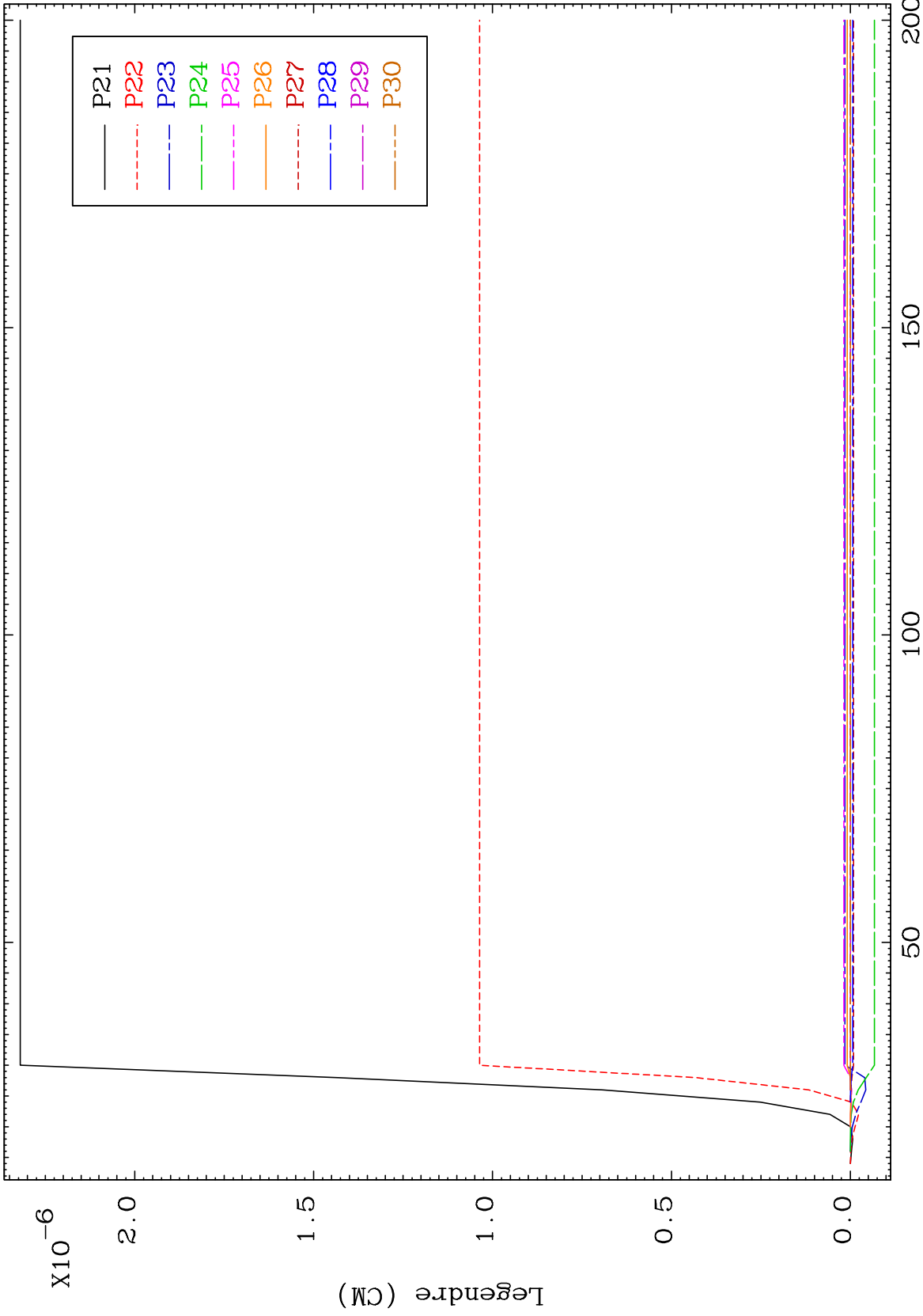
Incident Energy (MeV)

65-Tb-144

MAT 6480

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

65-Tb-144

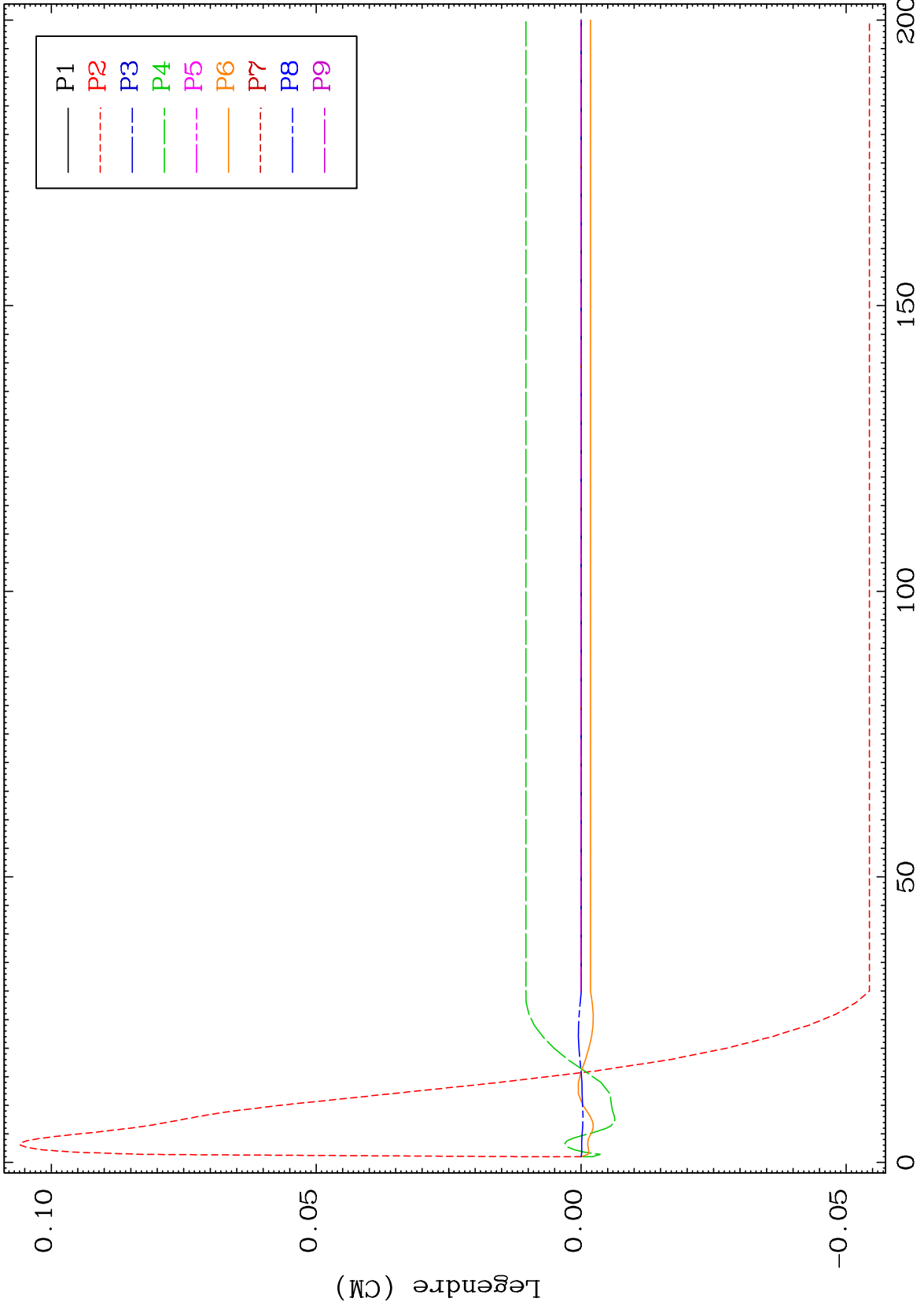


44

Incident Energy (MeV)

65-Tb-144

MAT 6480 MT= 59 (n,n') Level Legendre Coefficients 65-Tb-144

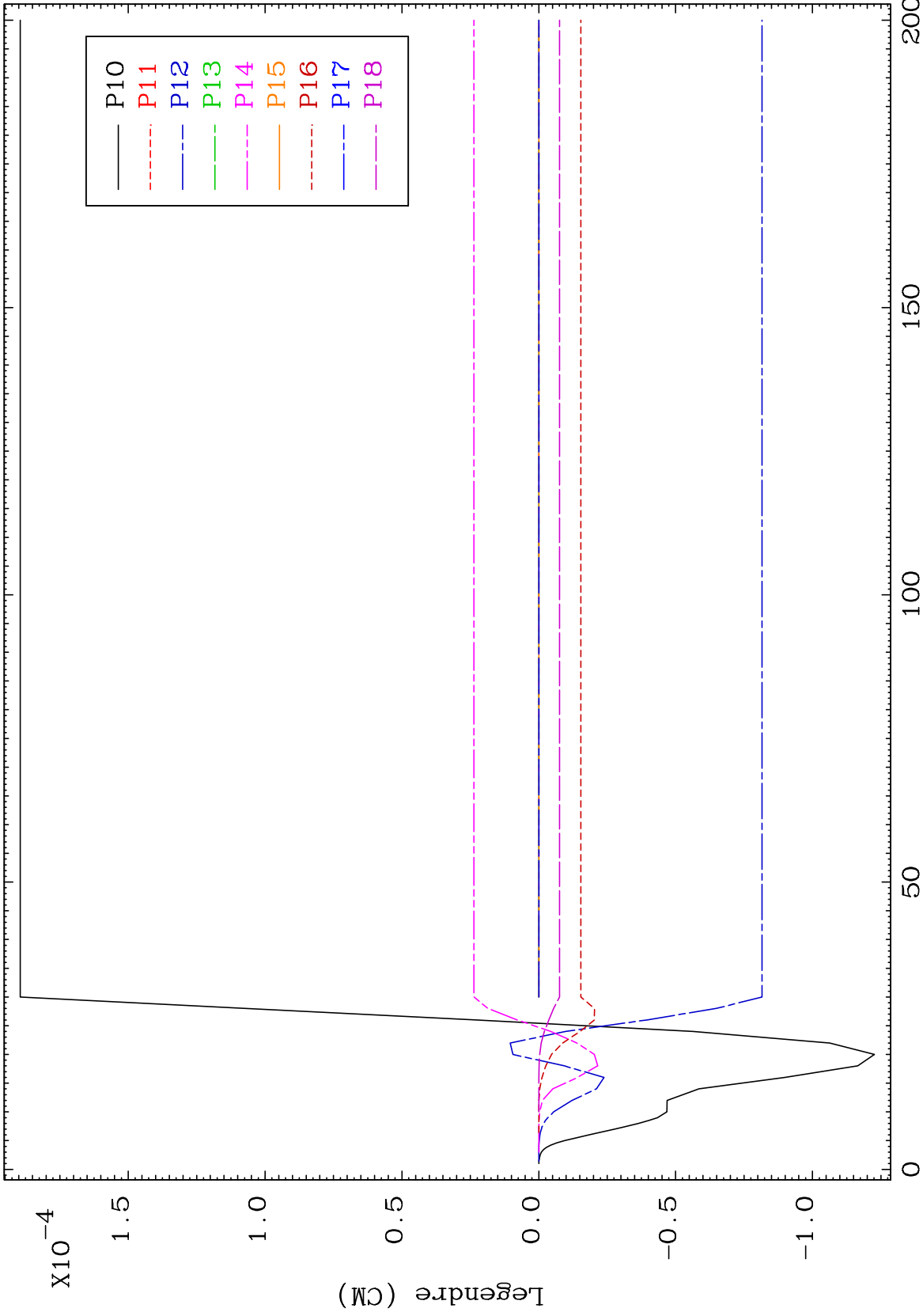


Legendre (CM) Incident Energy (MeV) 65-Tb-144

MAT 6480

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

65-Tb-144



46

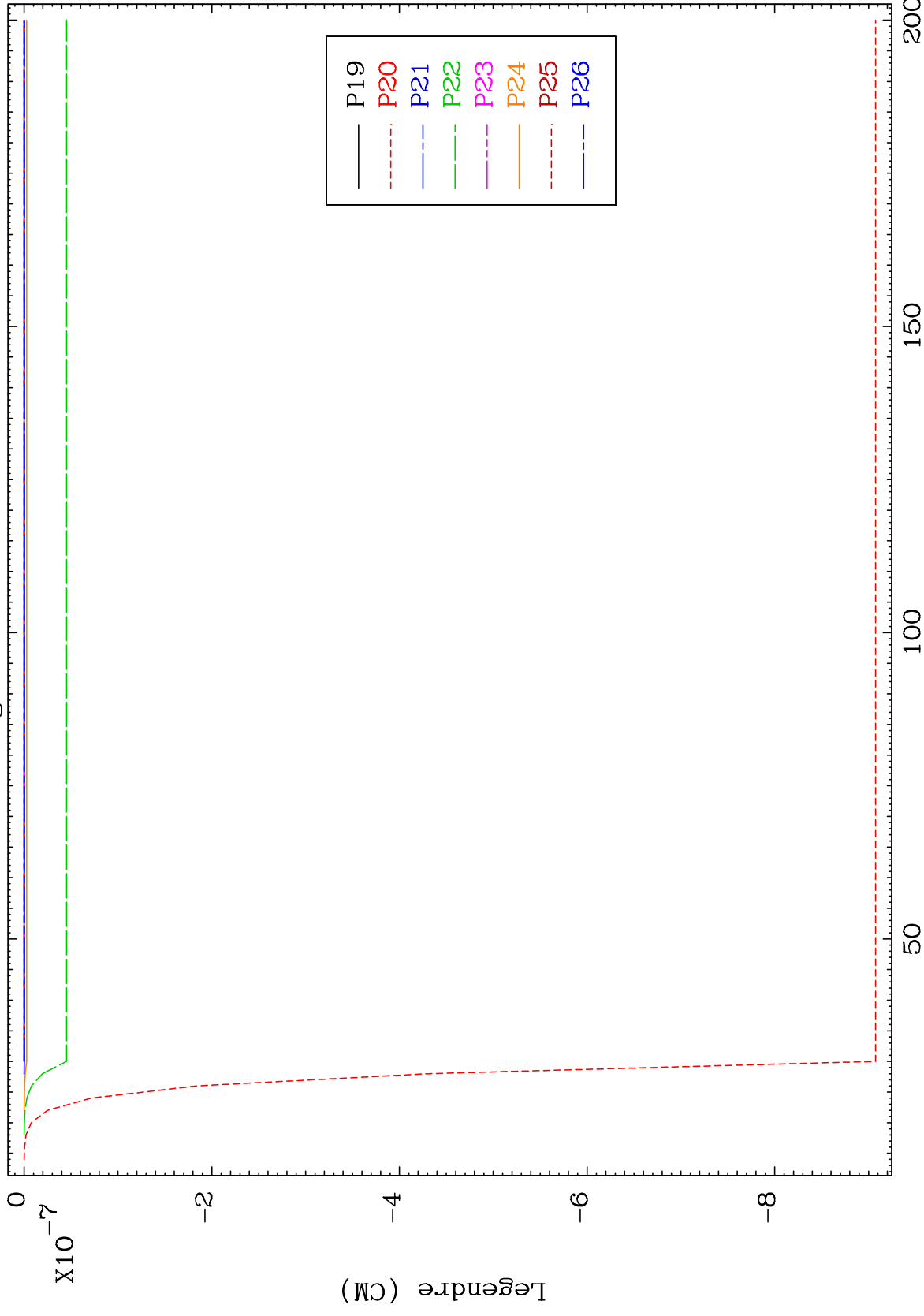
Incident Energy (MeV)

65-Tb-144

MAT 6480

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

65-Tb-144

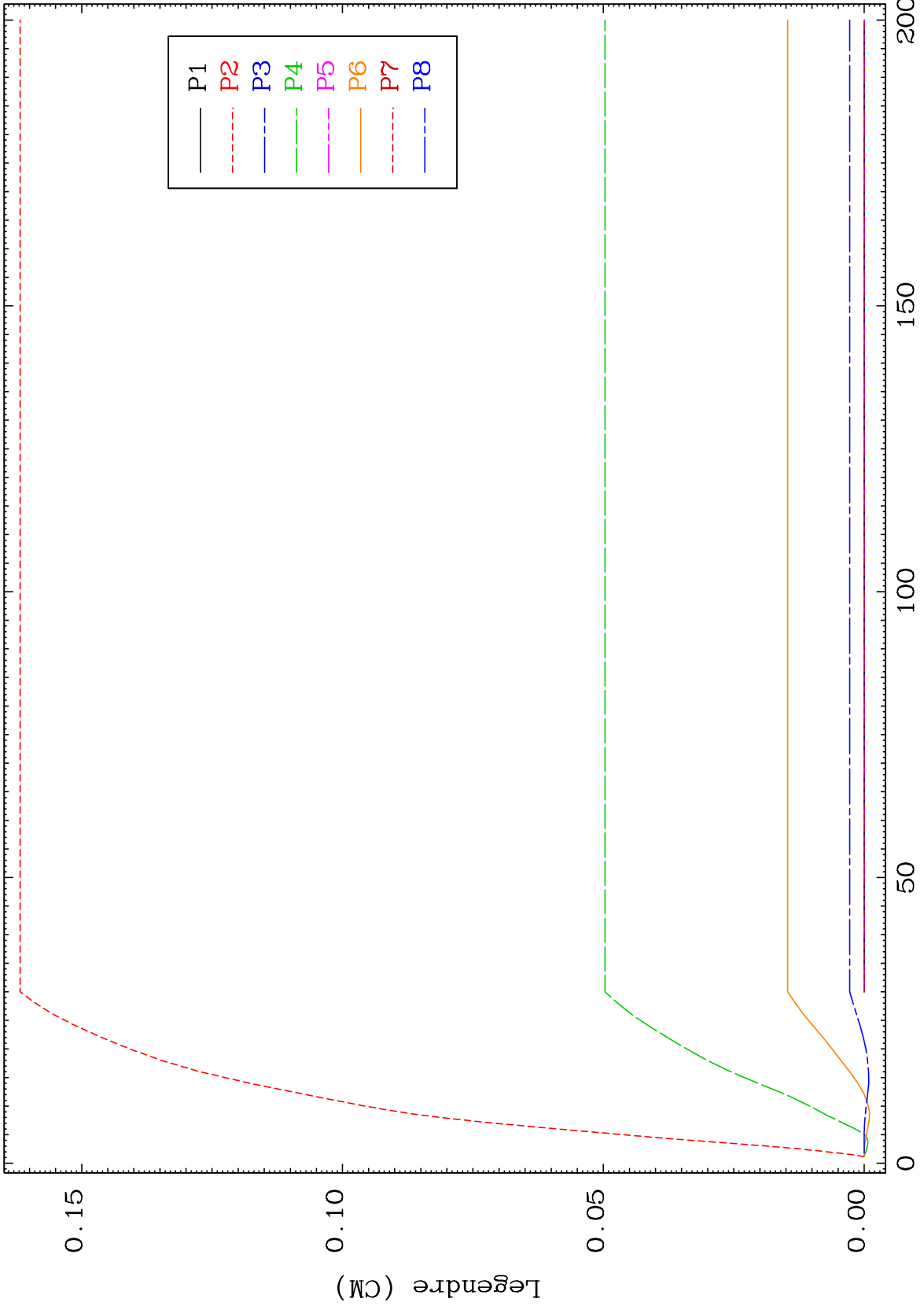


65-Tb-144

Incident Energy (MeV)

47

MAT 6480 MT= 60 (n,n') Level Legendre Coefficients 65-Tb-144

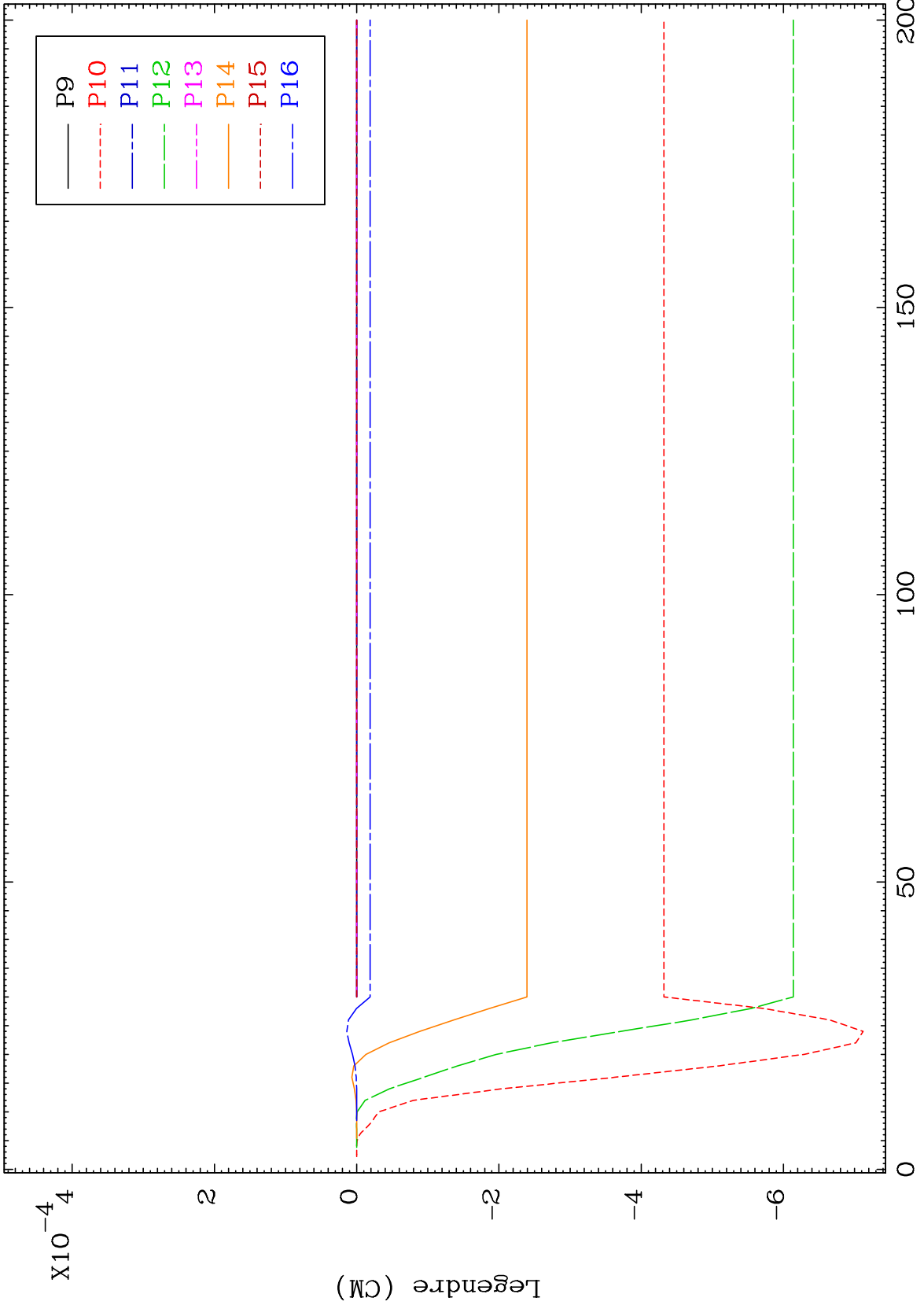


48 Incident Energy (MeV) 65-Tb-144

MAT 6480

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

65-Tb-144

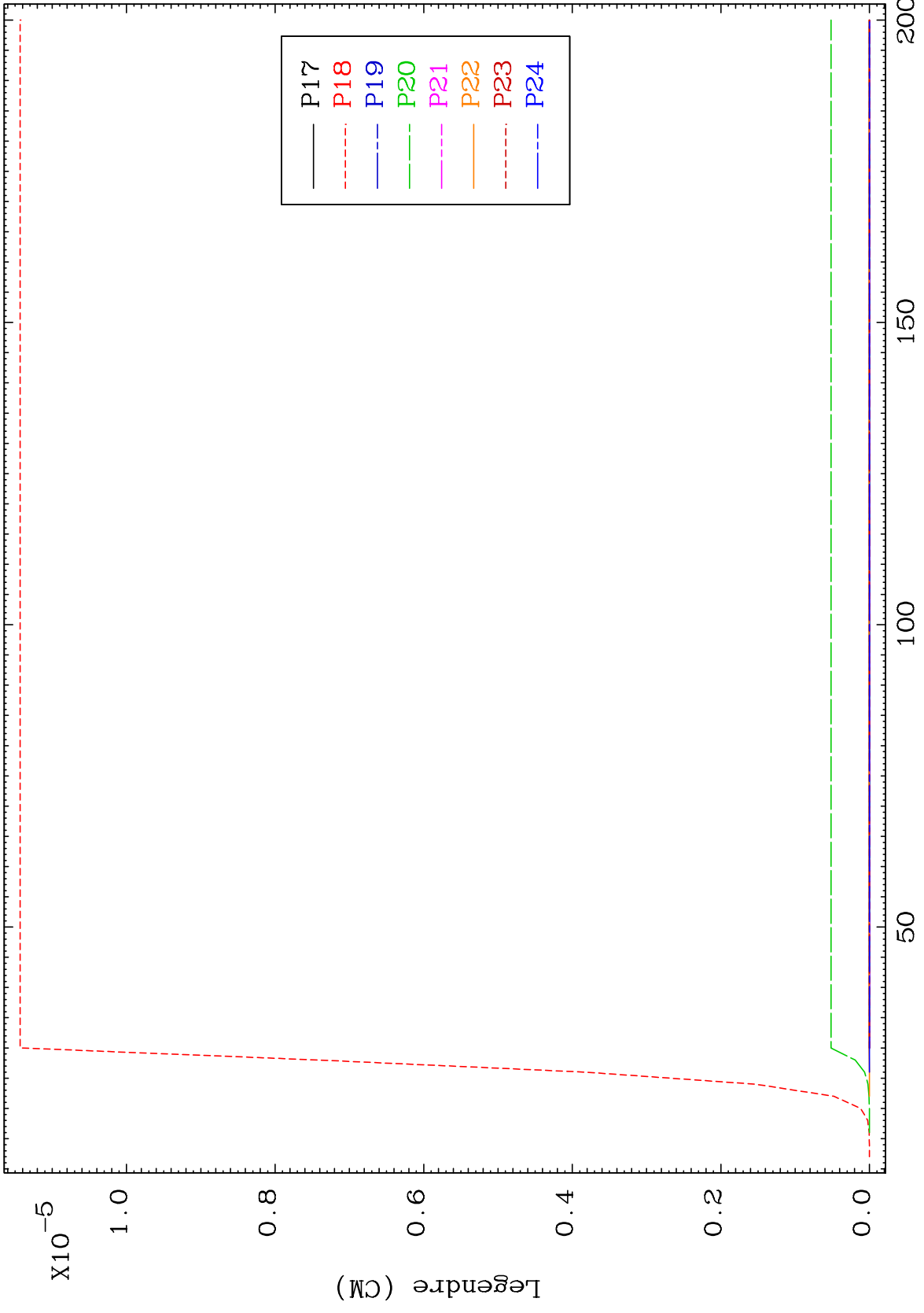


49

Incident Energy (MeV)

65-Tb-144

MAT 6480 MT= 60 (n,n') Level Legendre Coefficients 65-Tb-144

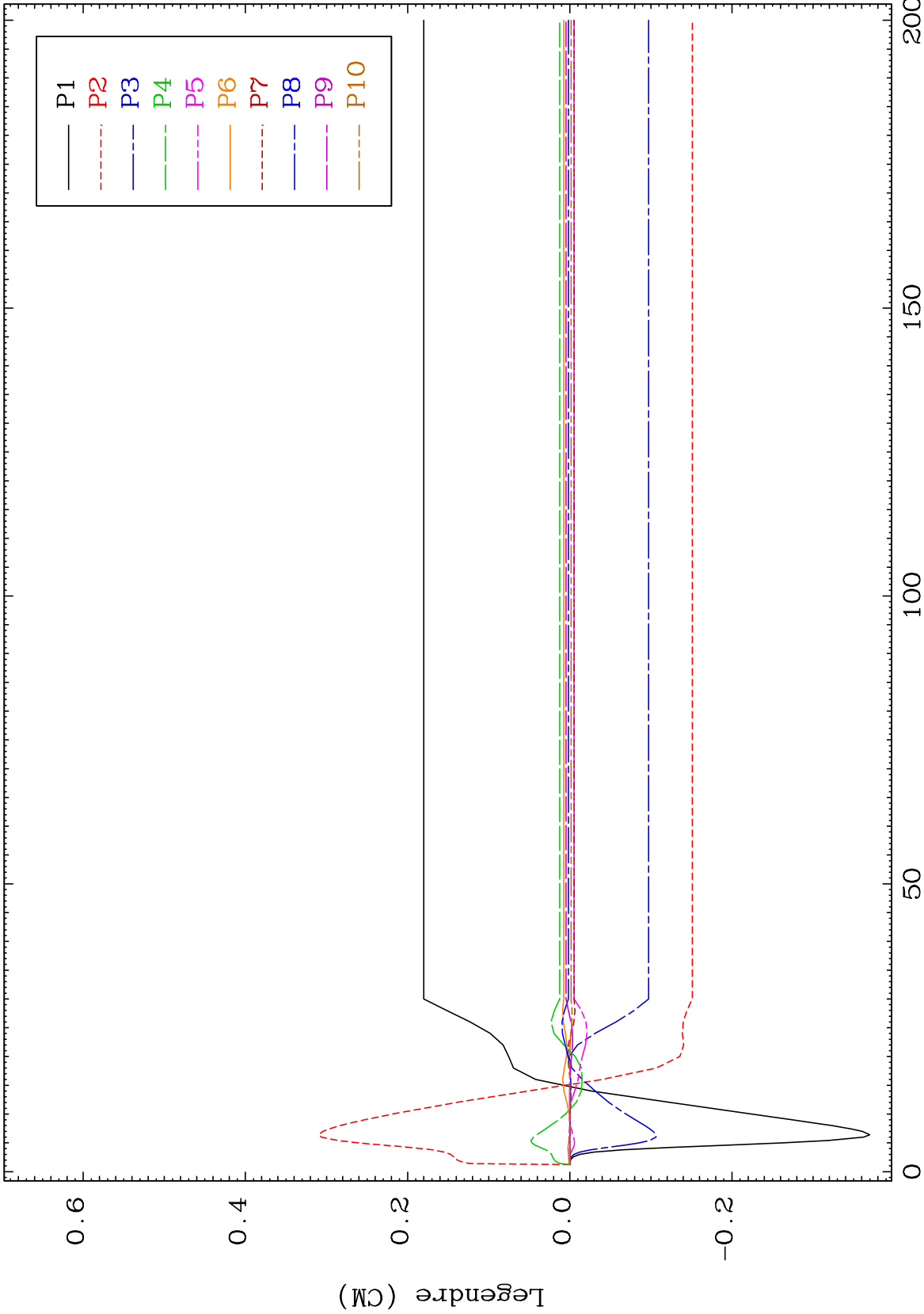


65-Tb-144

MAT 6480

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

65-Tb-144

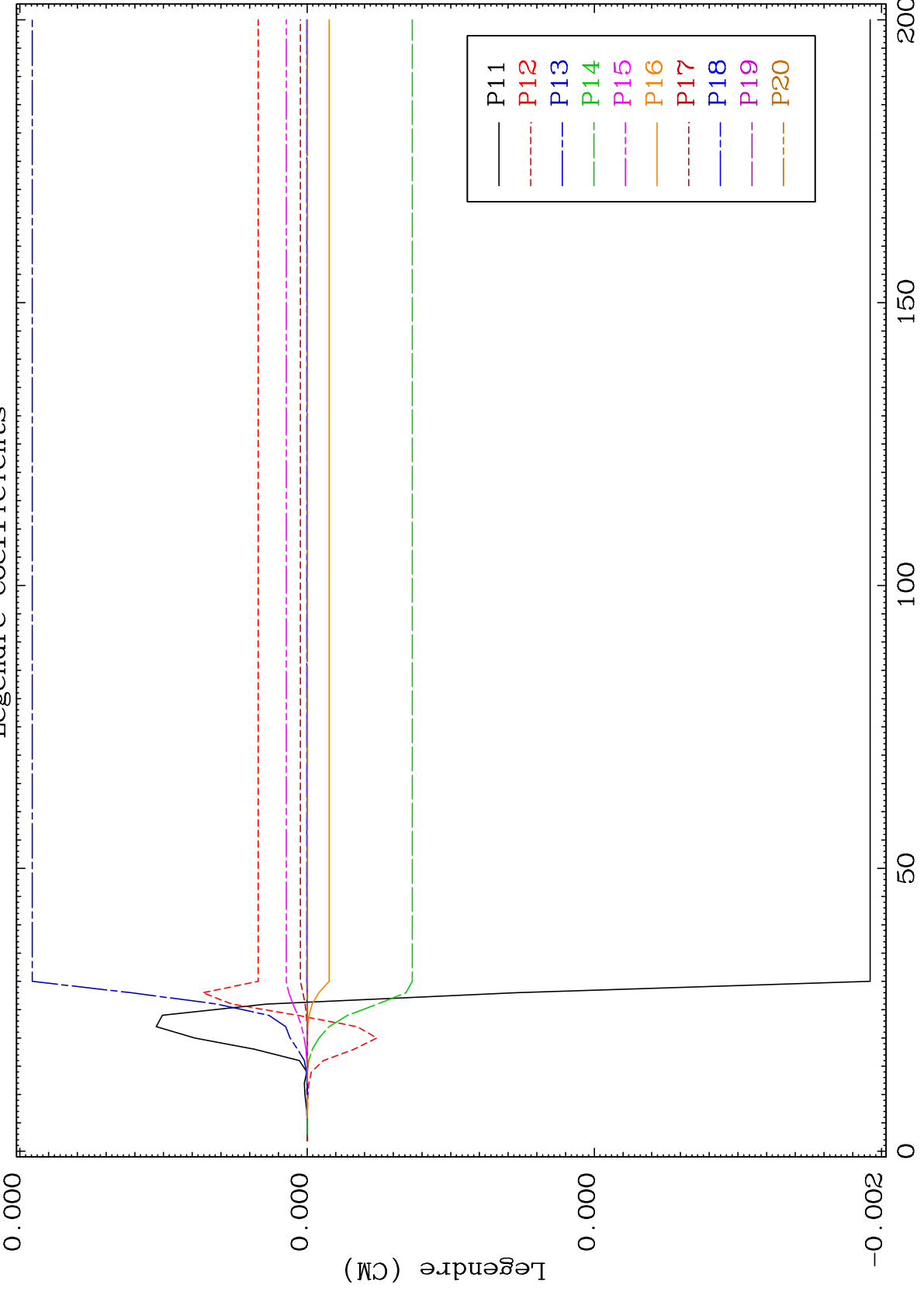


51

Incident Energy (MeV)

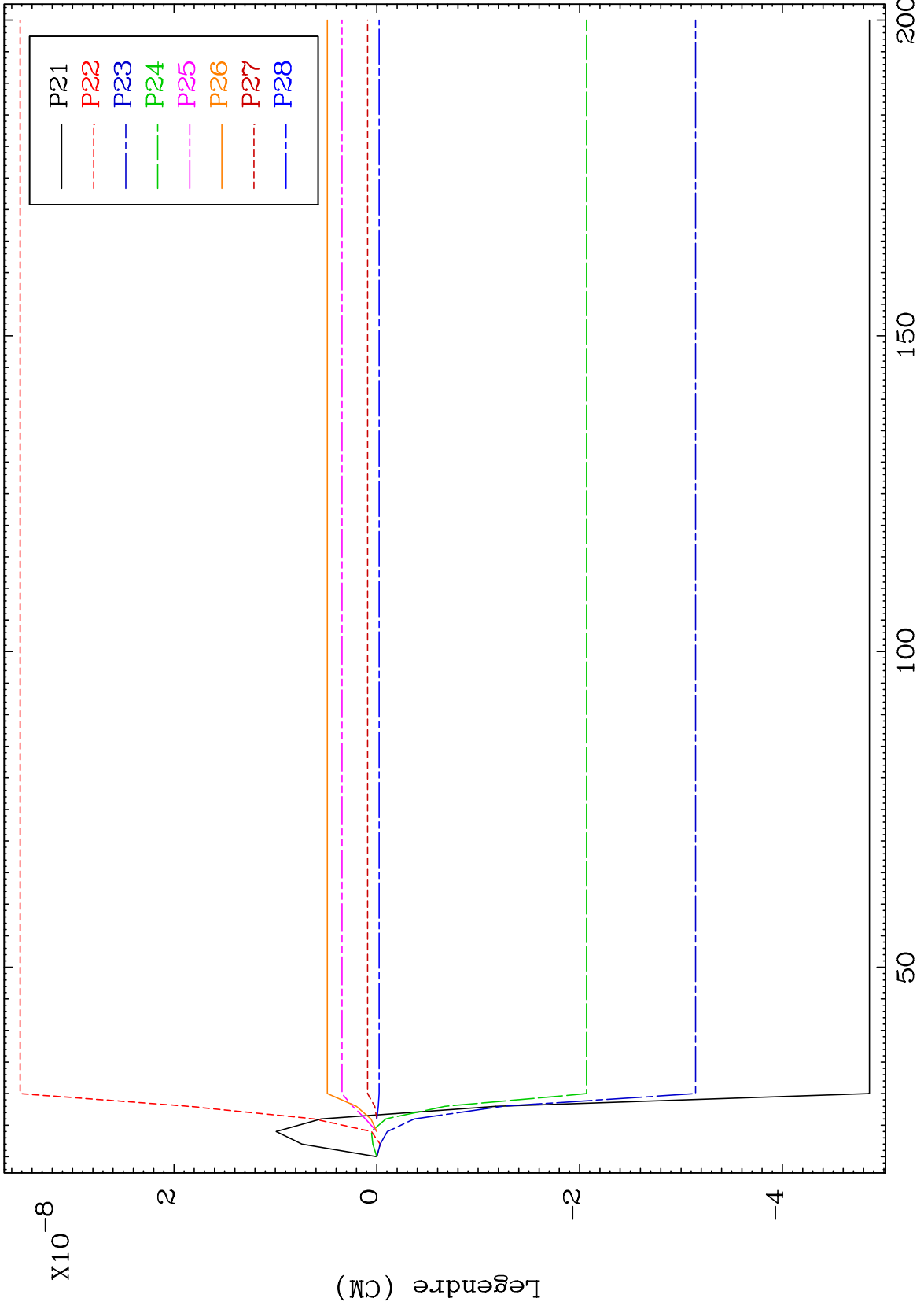
65-Tb-144

MAT 6480 MT= 61 (n,n') Level Legendre Coefficients 65-Tb-144

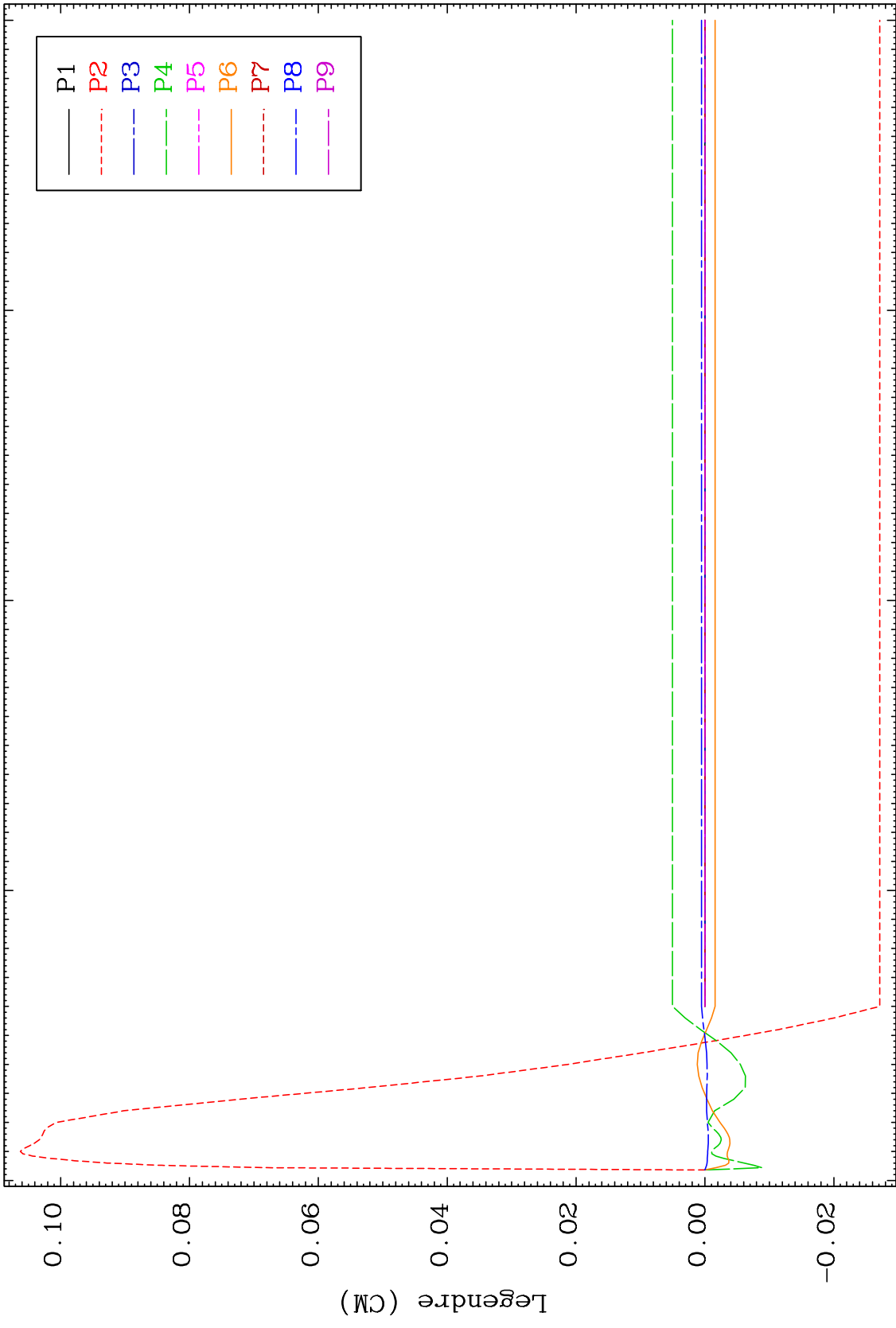


52 65-Tb-144

MAT 6480 MT= 61 (n,n') Level Legendre Coefficients 65-Tb-144



MAT 6480 MT= 62 (n,n') Level Legendre Coefficients 65-Tb-144

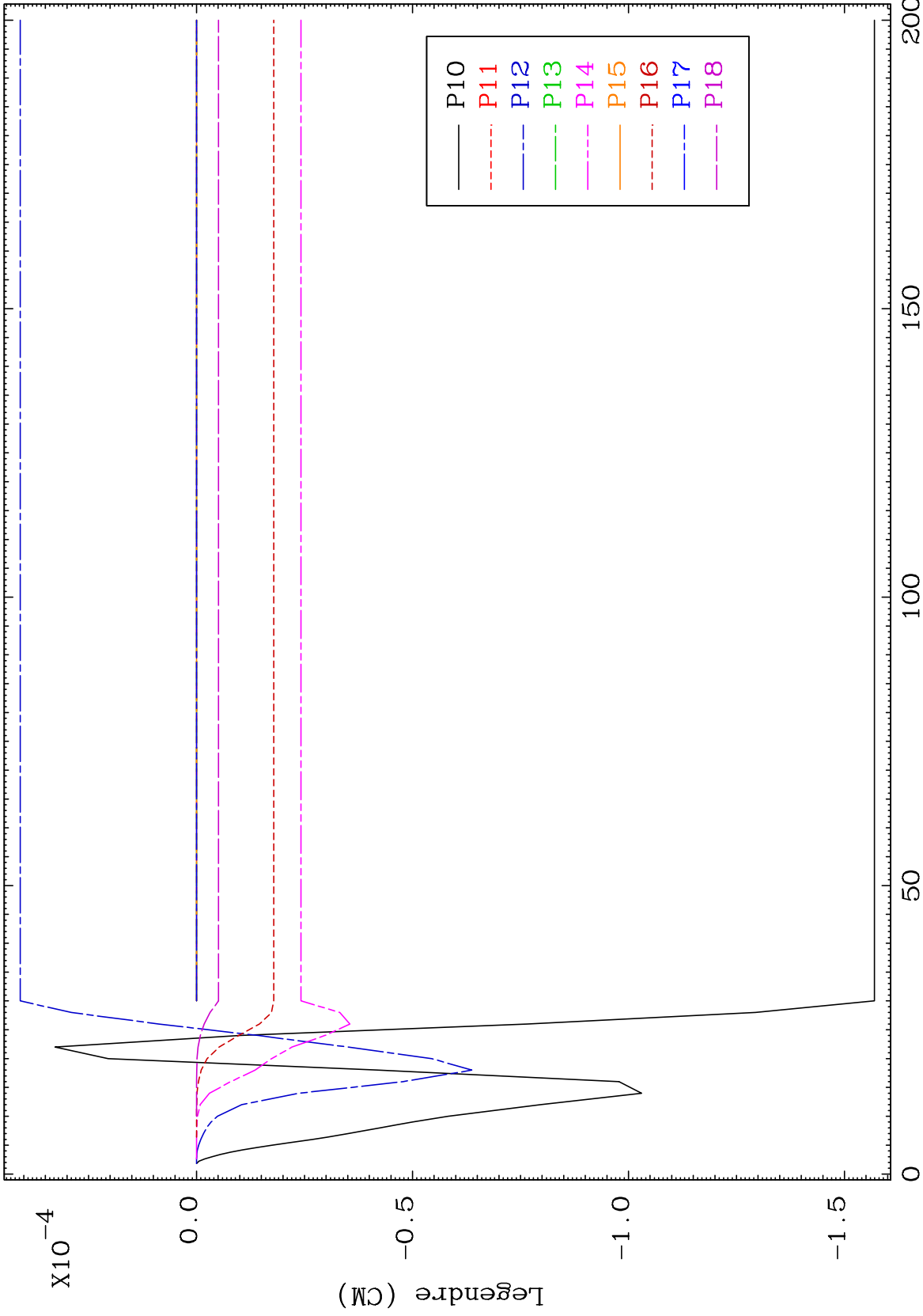


54 65-Tb-144

MAT 6480

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

65-Tb-144



55

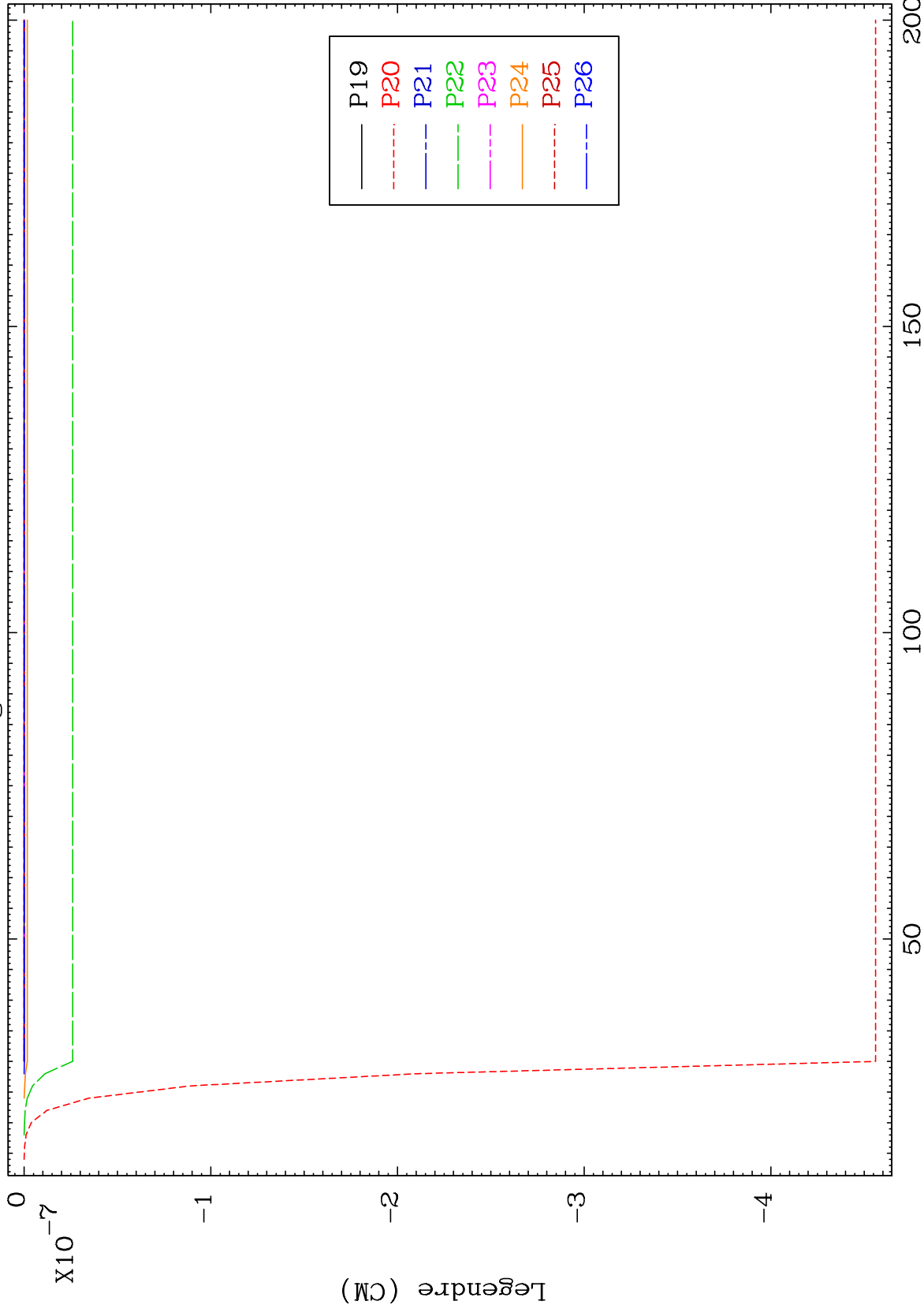
Incident Energy (MeV)

65-Tb-144

MAT 6480

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

65-Tb-144

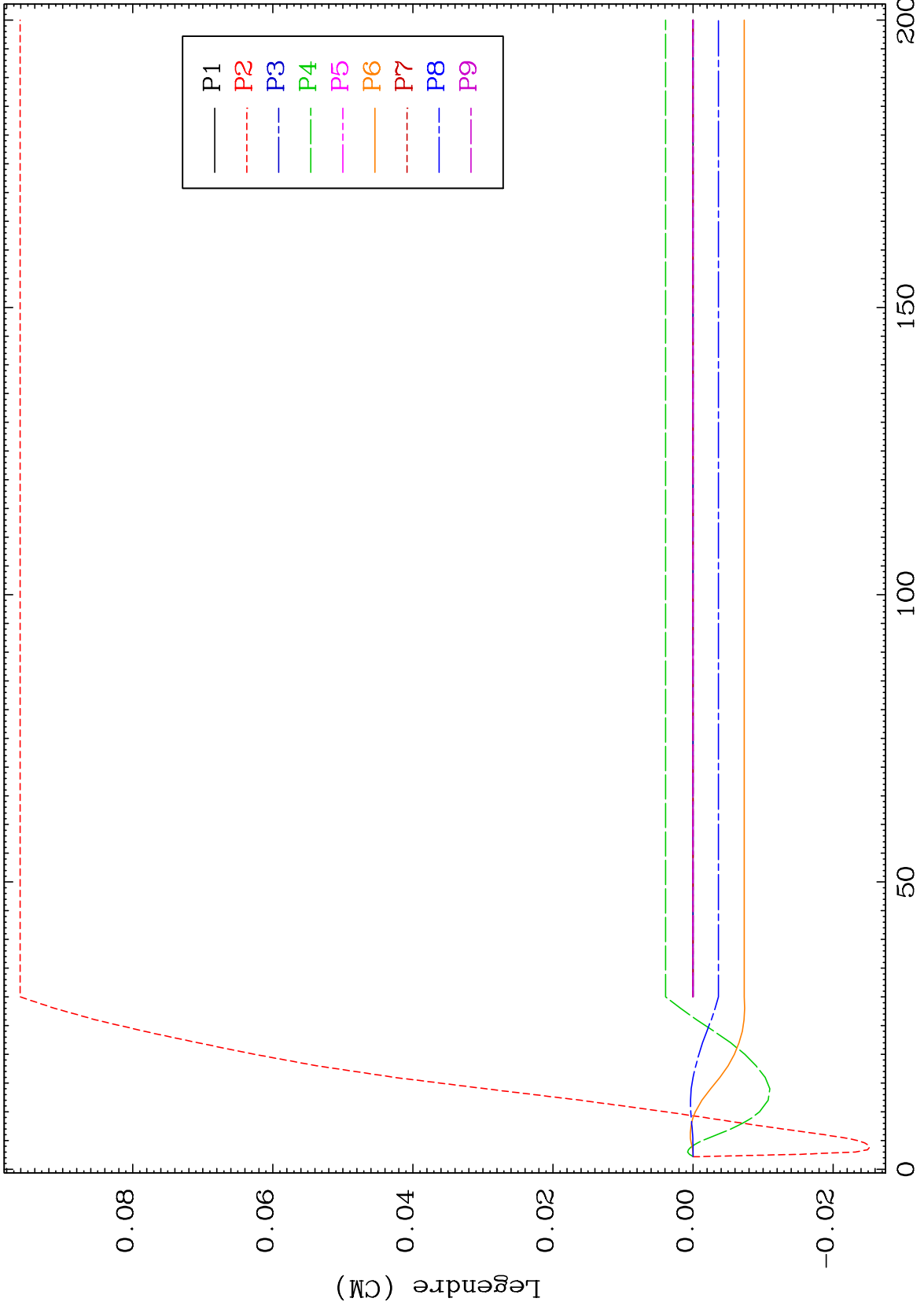


65-Tb-144

Incident Energy (MeV)

56

MAT 6480 MT= 63 (n,n') Level Legendre Coefficients 65-Tb-144

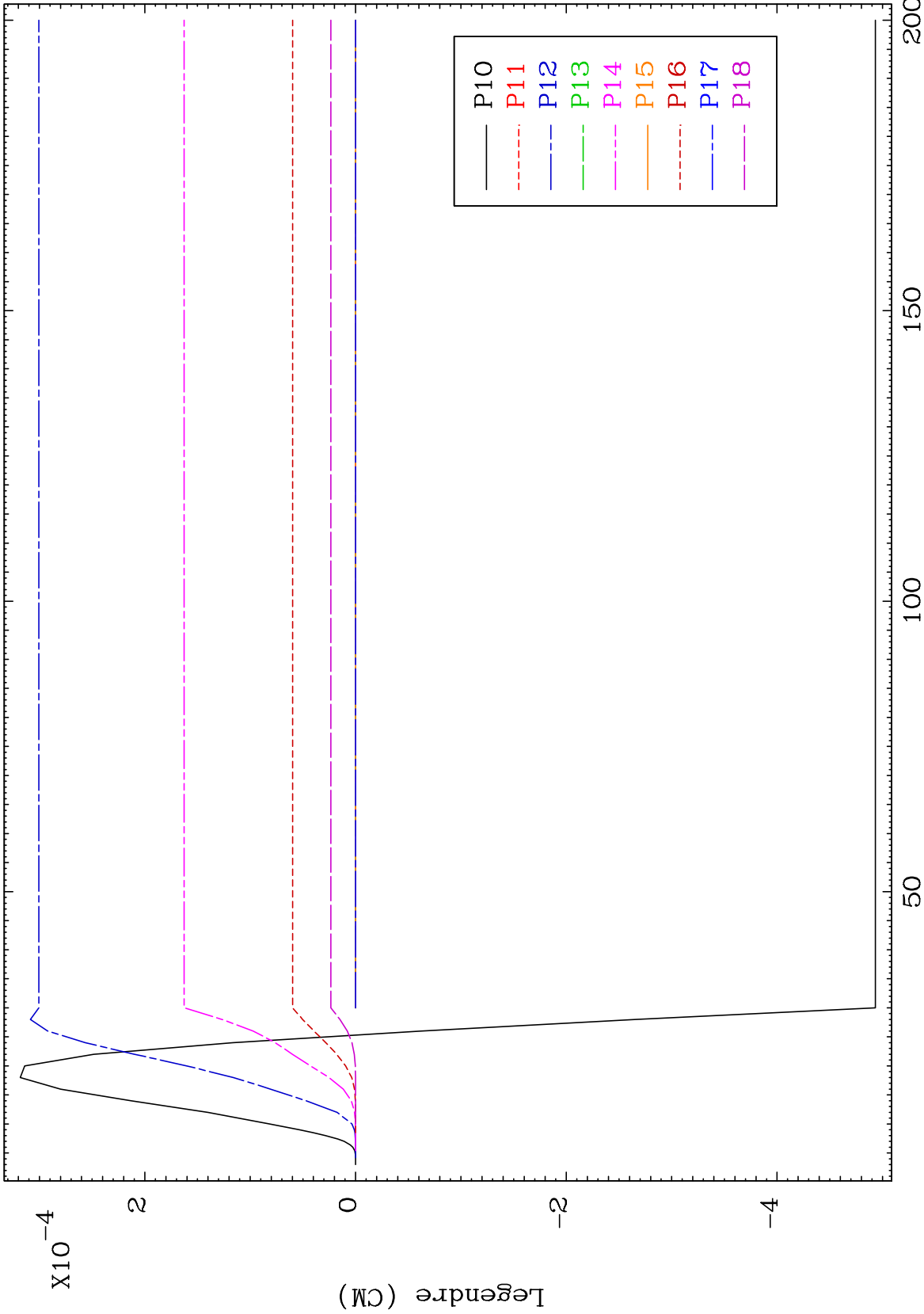


57 65-Tb-144

MAT 6480

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

65-Tb-144



58

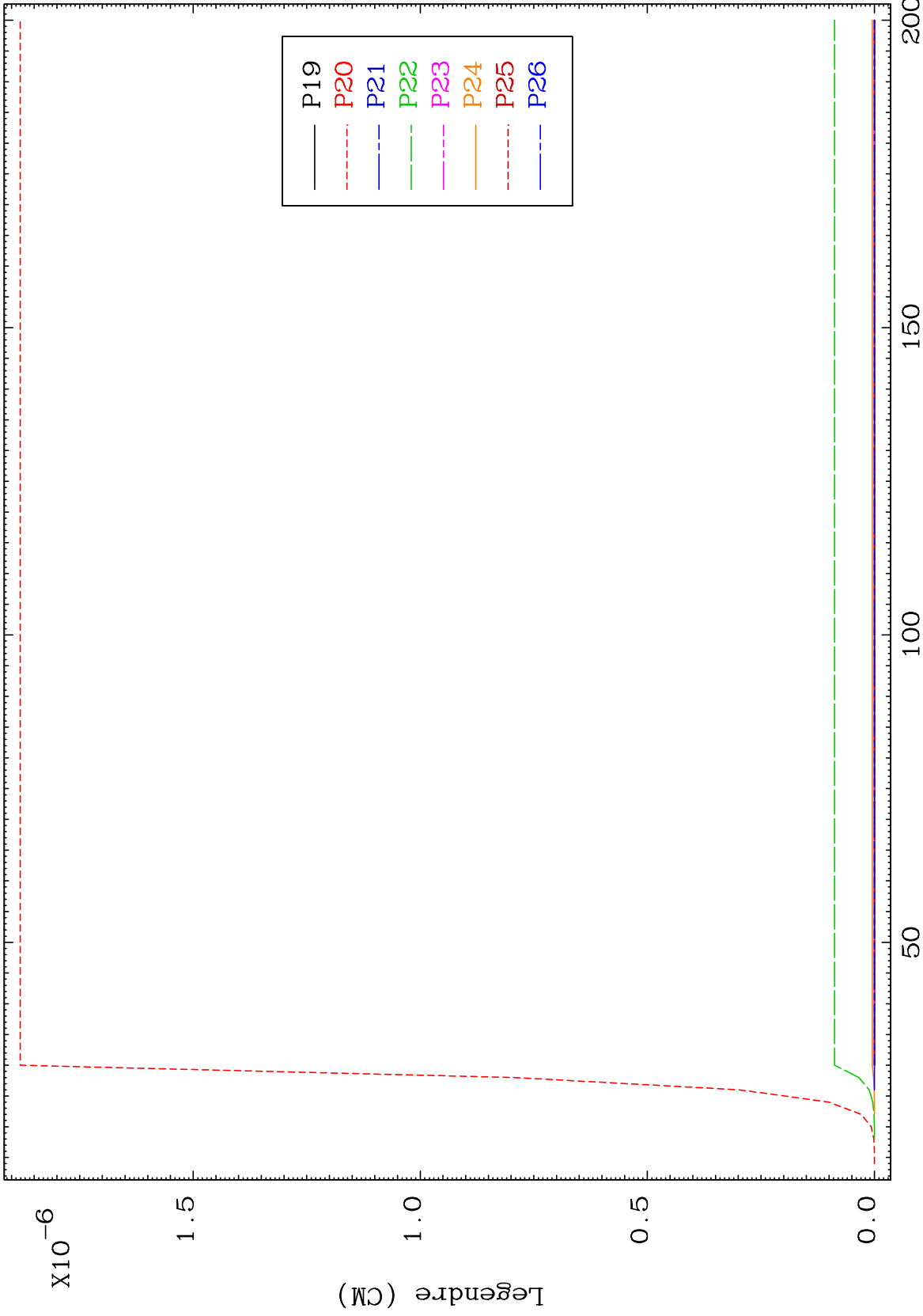
Incident Energy (MeV)

65-Tb-144

MAT 6480

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

65-Tb-144

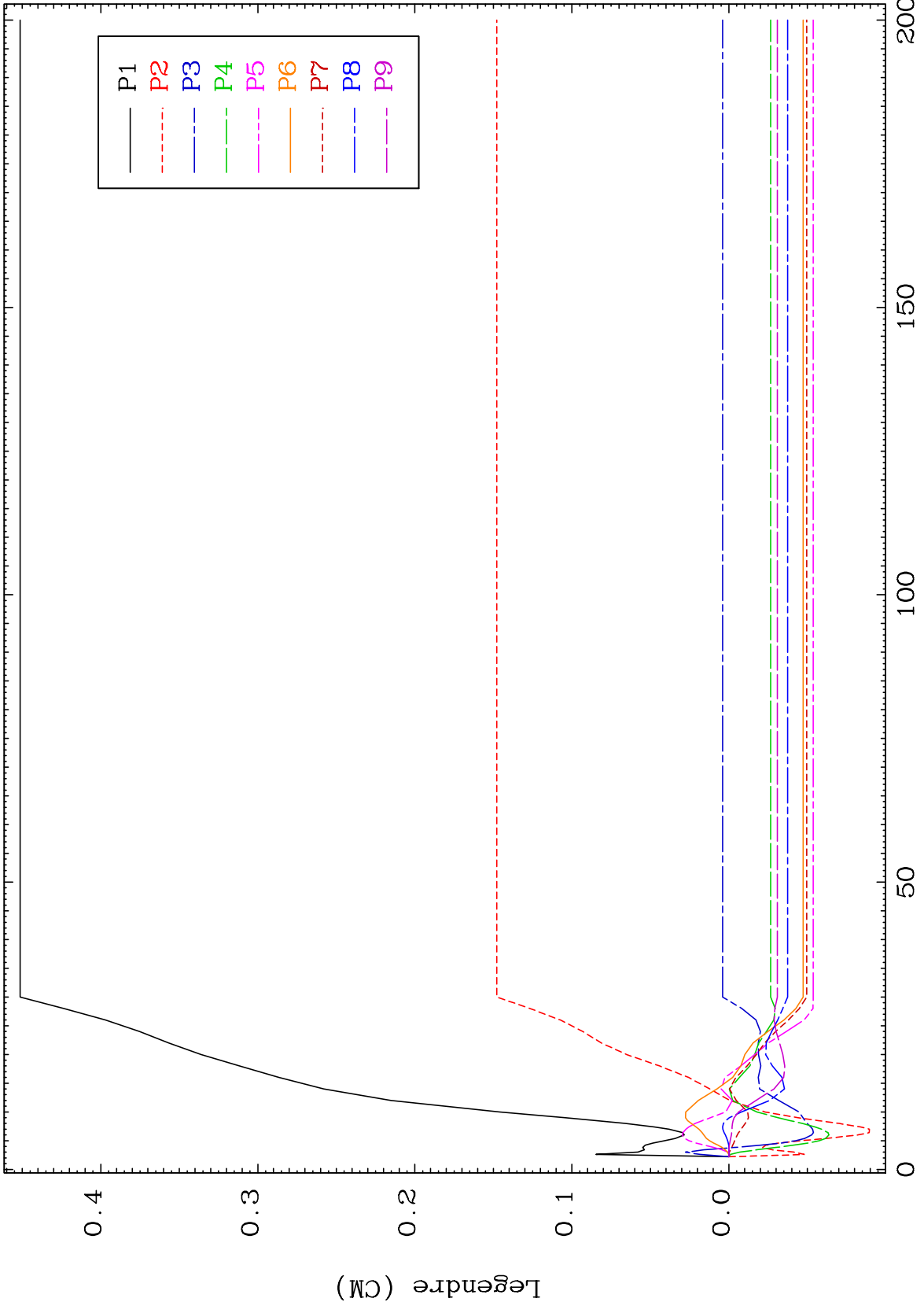


59

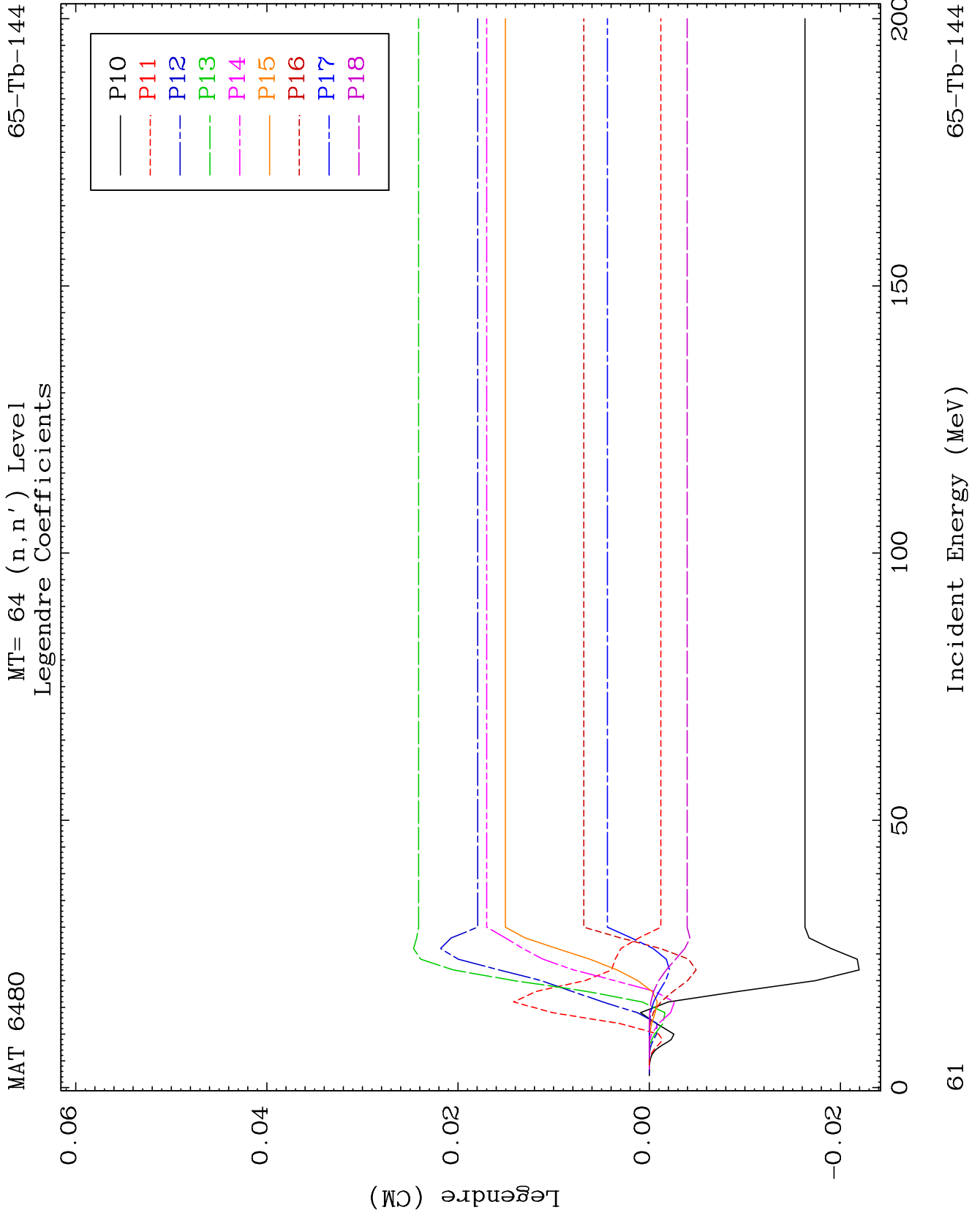
Incident Energy (MeV)

65-Tb-144

MAT 6480 MT= 64 (n,n') Level Legendre Coefficients 65-Tb-144



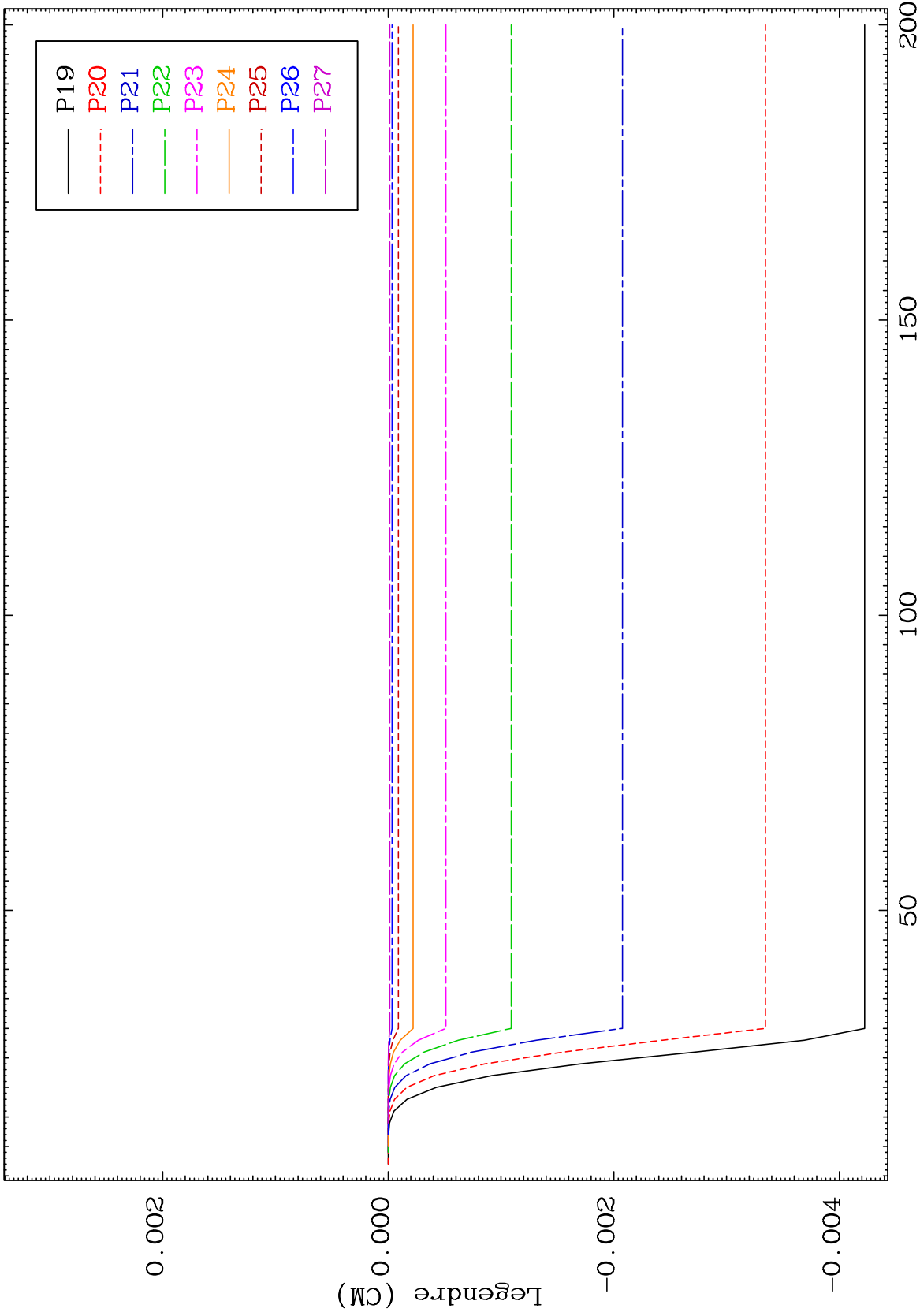
65-Tb-144 Incident Energy (MeV)



MAT 6480

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

65-Tb-144



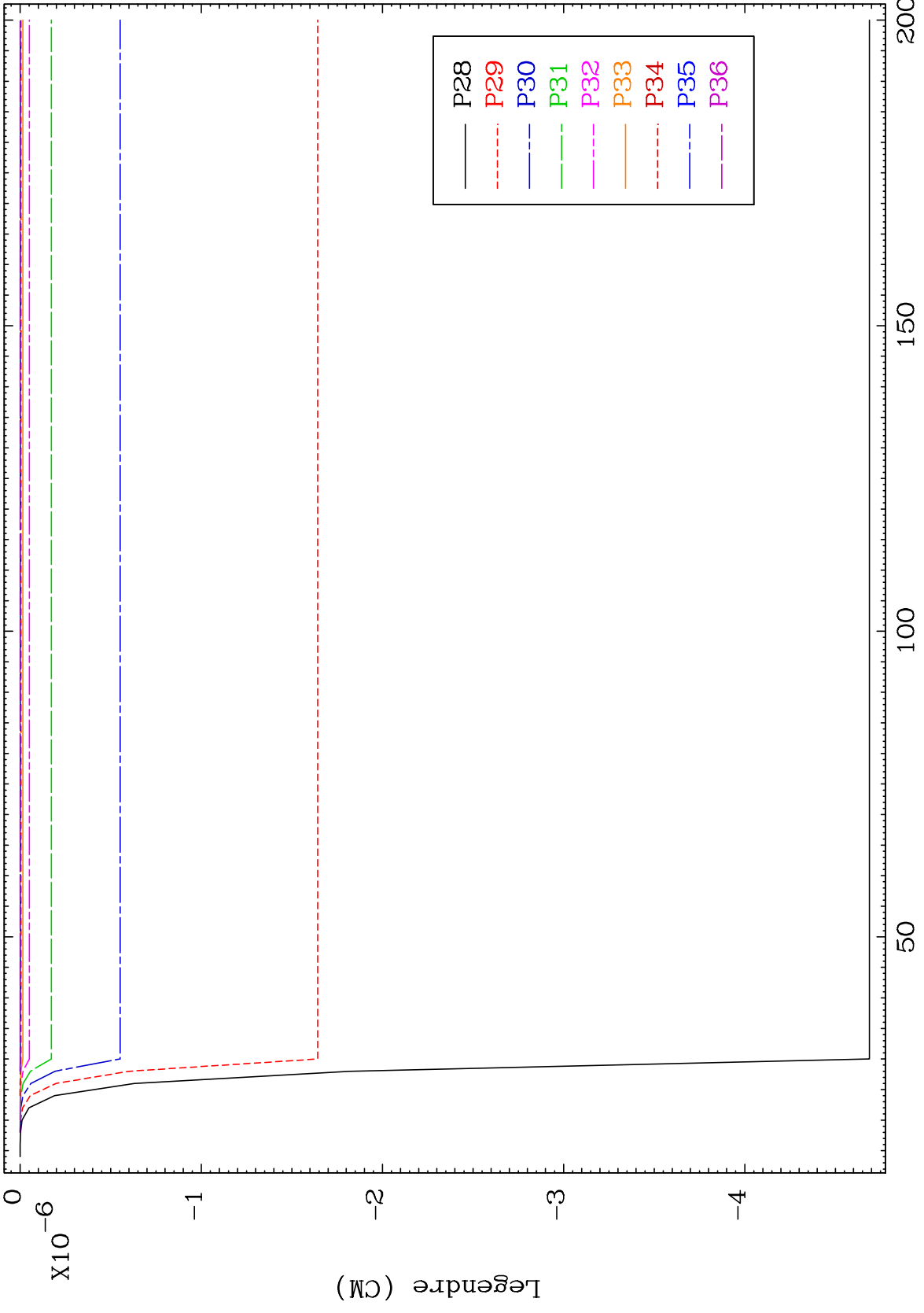
62

Incident Energy (MeV)

65-Tb-144

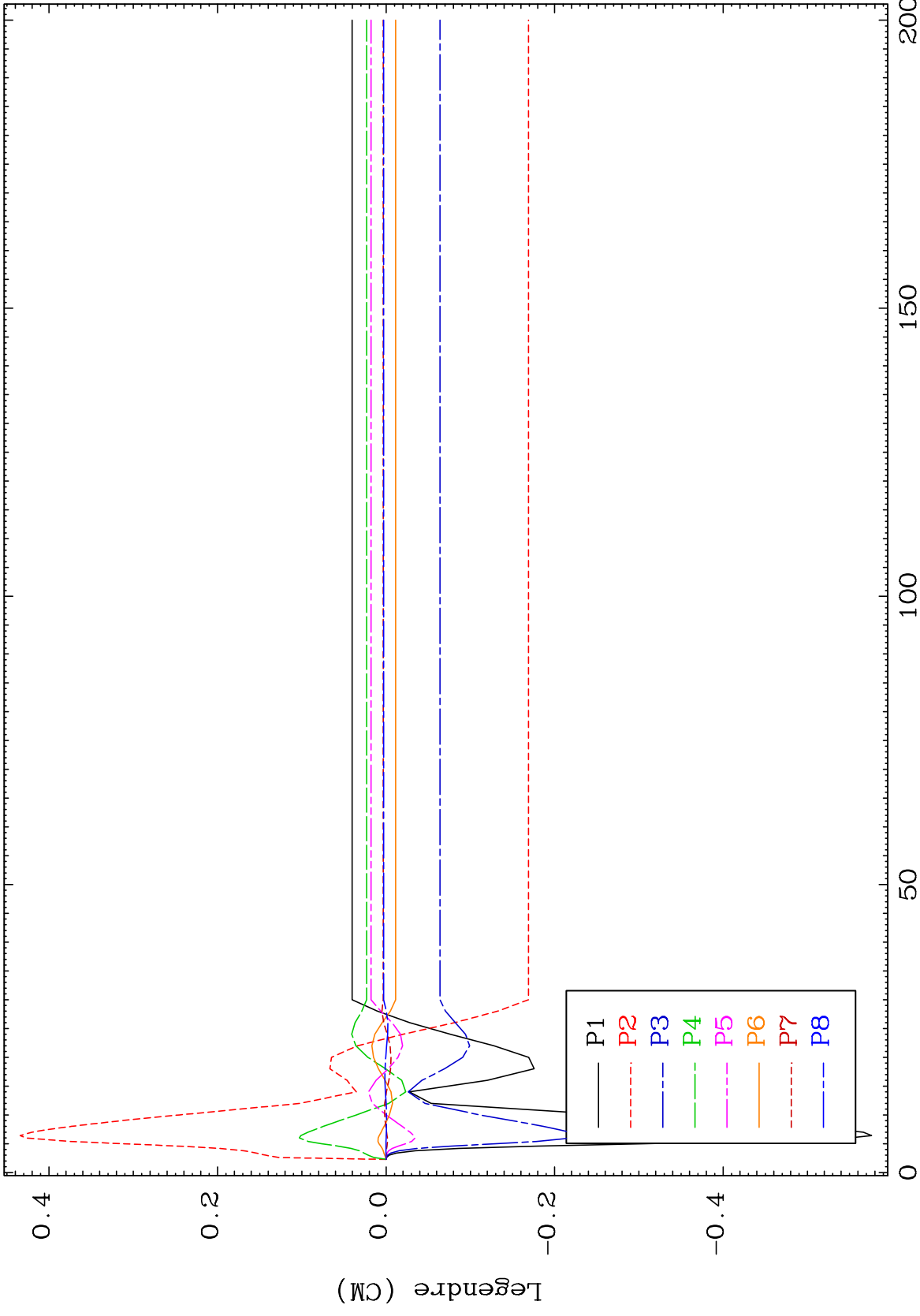
MAT 6480 MT= 64 (n,n') Level 65-Tb-144

Legendre Coefficients



63 65-Tb-144

MAT 6480 MT= 65 (n,n') Level Legendre Coefficients 65-Tb-144



65-Tb-144

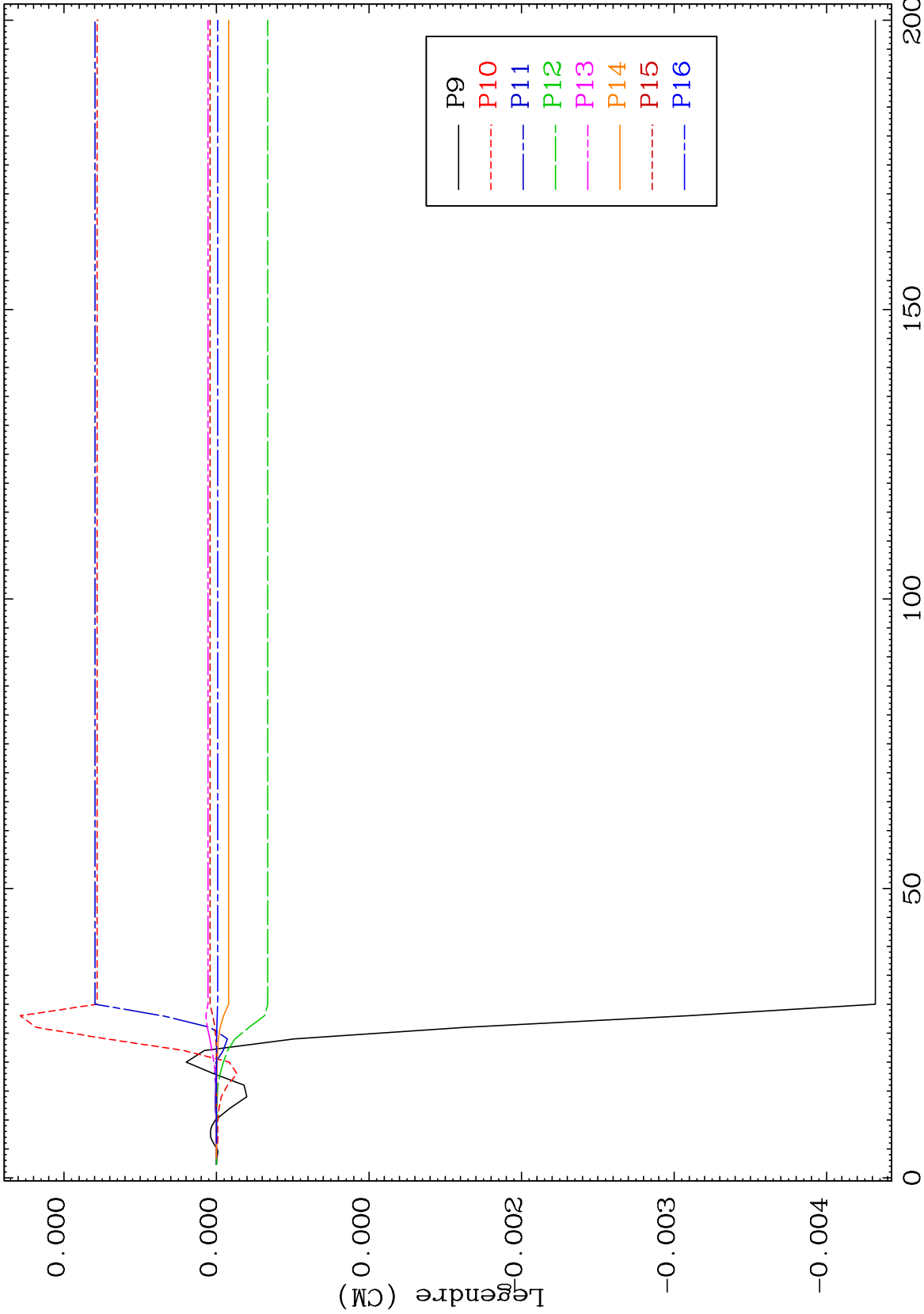
Incident Energy (MeV)

64

MAT 6480

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

65-Tb-144



65

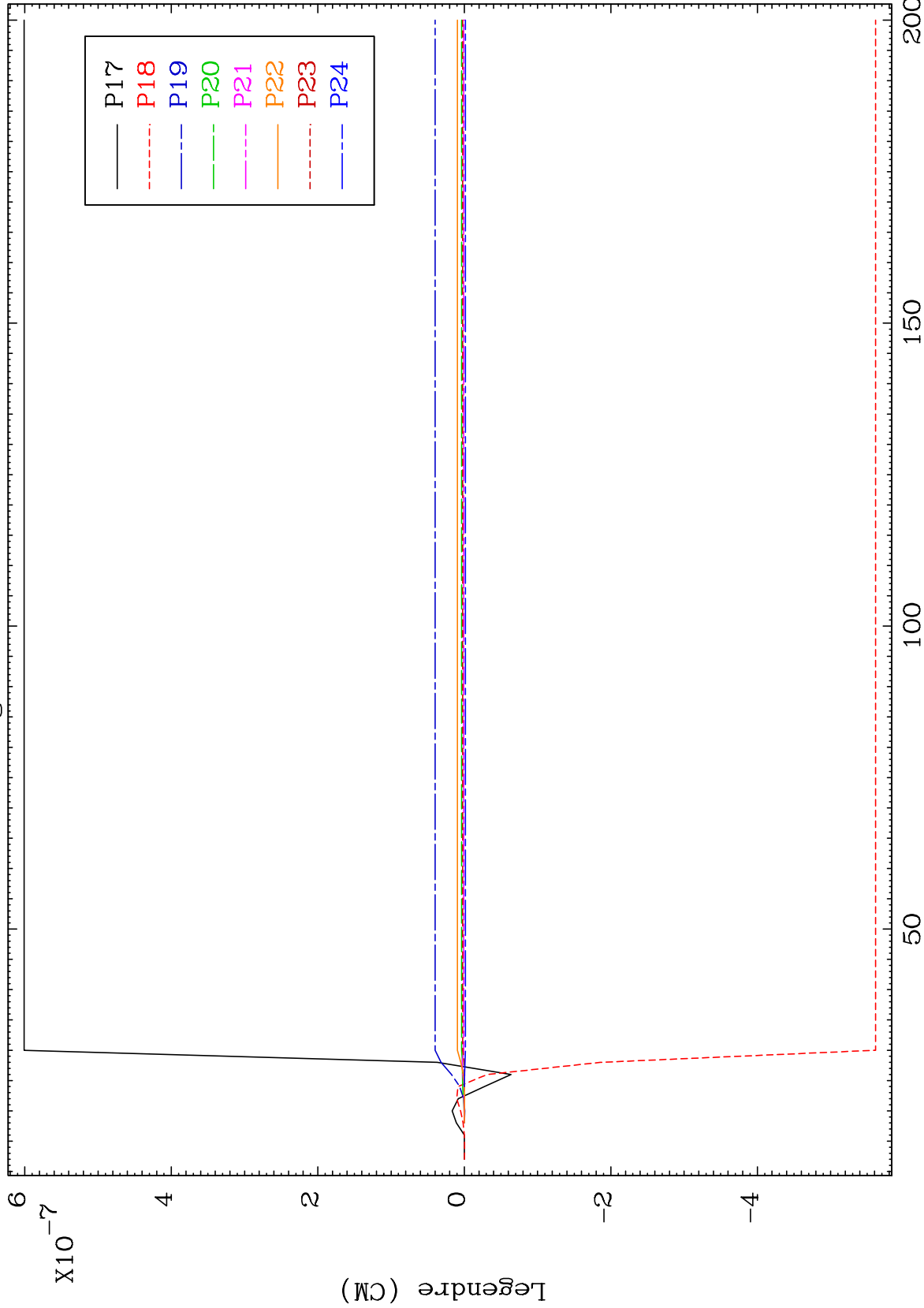
Incident Energy (MeV)

65-Tb-144

MAT 6480

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

65-Tb-144

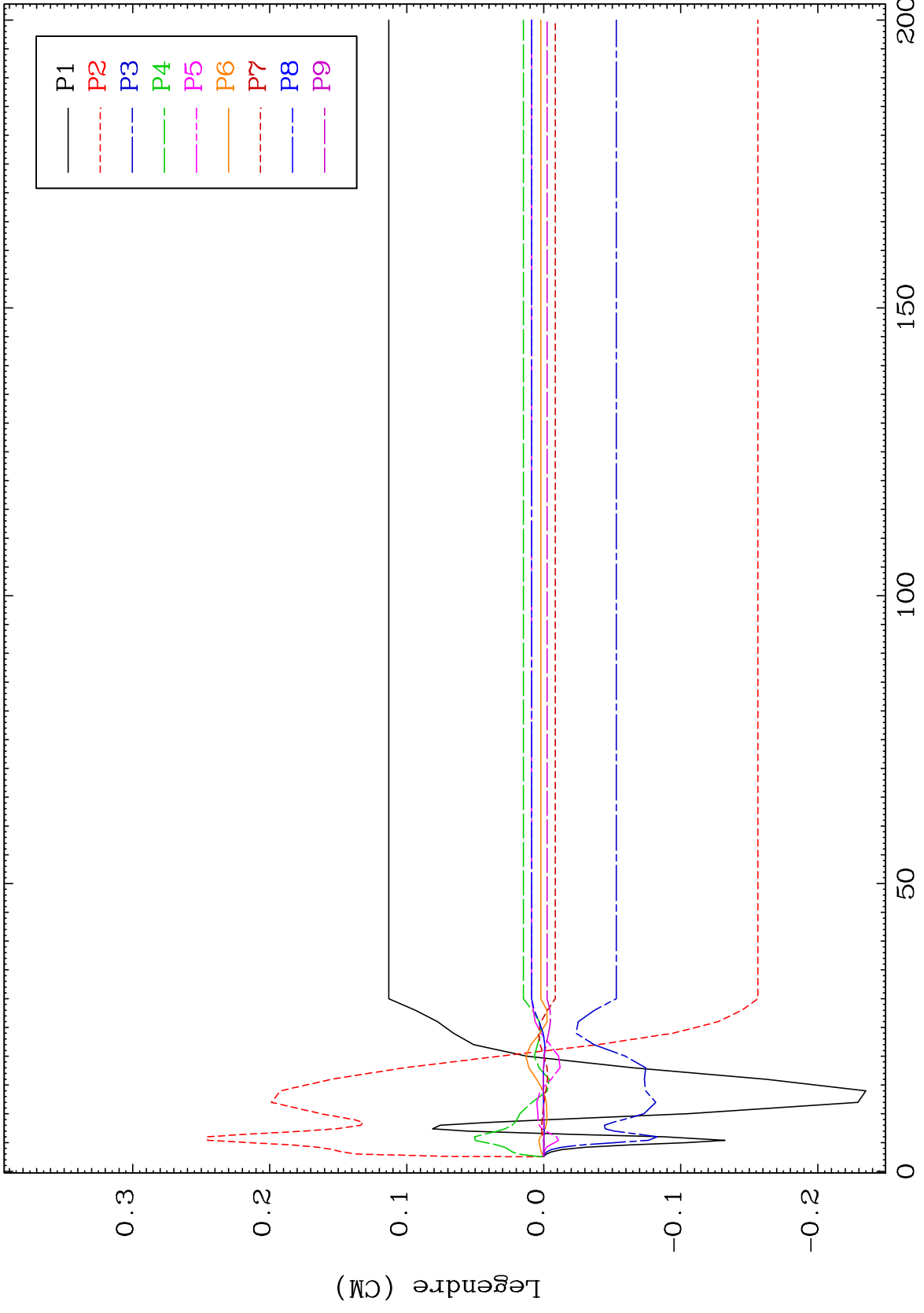


66

Incident Energy (MeV)

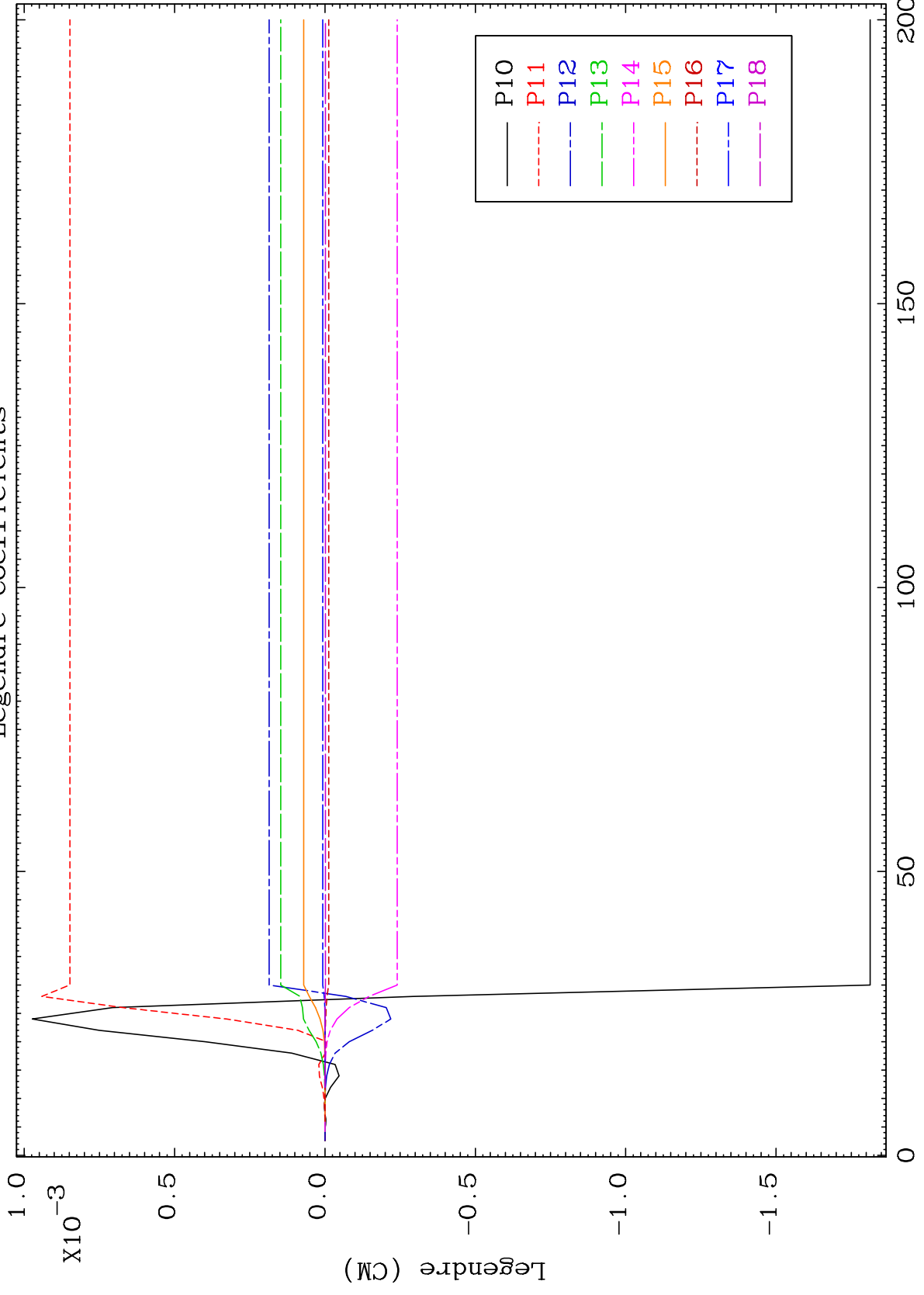
65-Tb-144

MAT 6480 MT= 66 (n,n') Level Legendre Coefficients 65-Tb-144



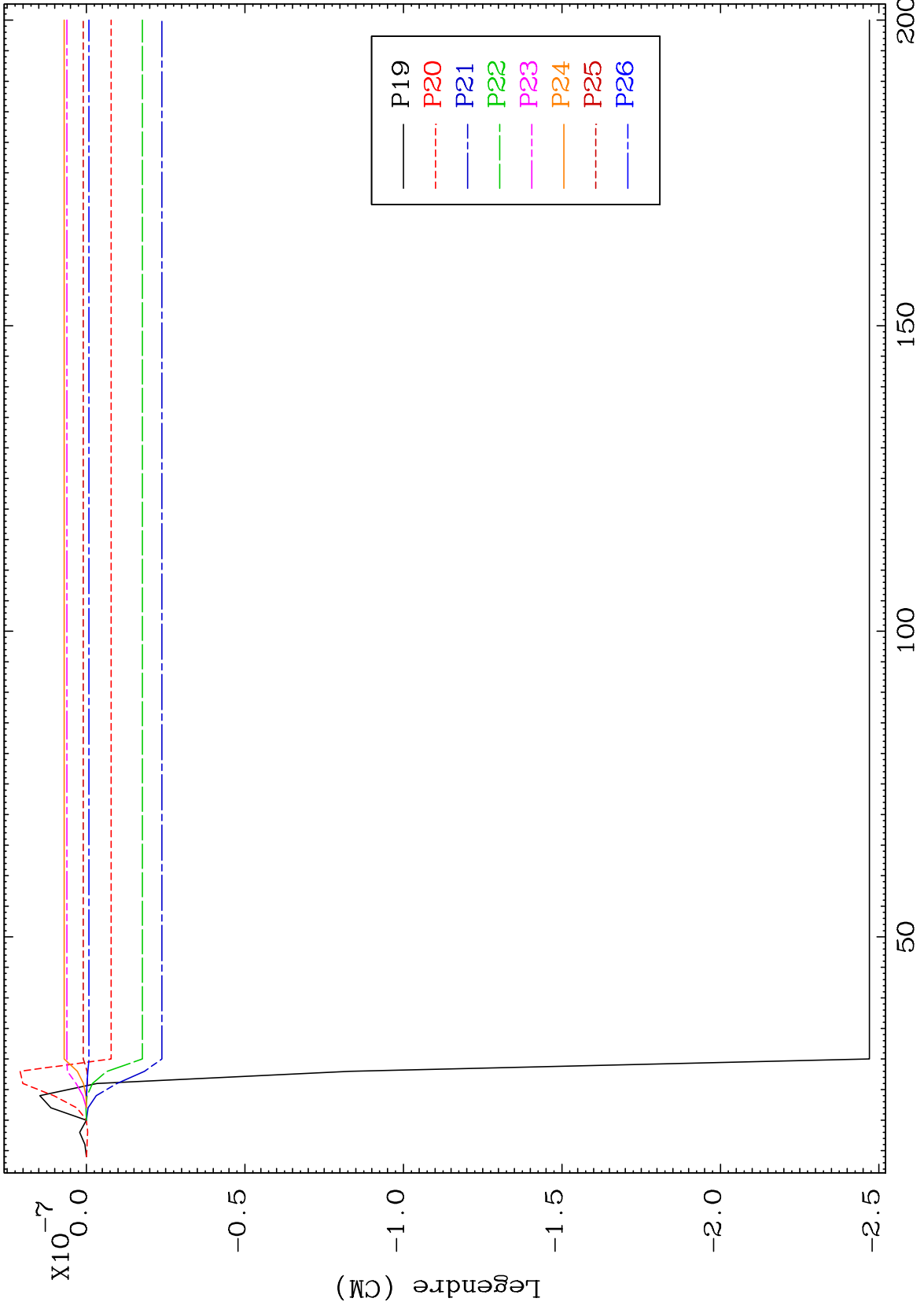
67 65-Tb-144

MAT 6480 MT= 66 (n,n') Level Legendre Coefficients 65-Tb-144



68 65-Tb-144

MAT 6480 MT= 66 (n,n') Level Legendre Coefficients 65-Tb-144

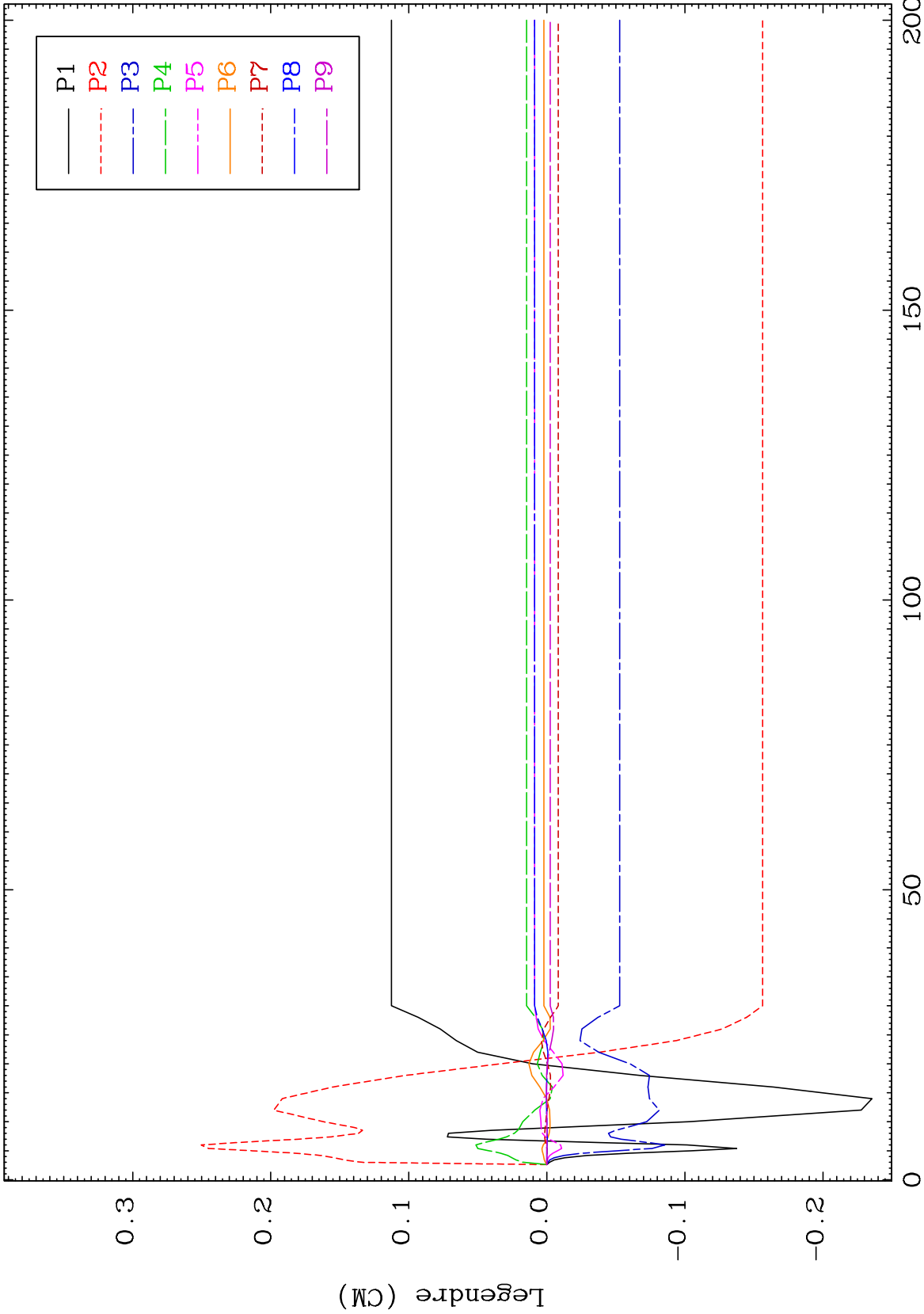


69 65-Tb-144

MAT 6480

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

65-Tb-144

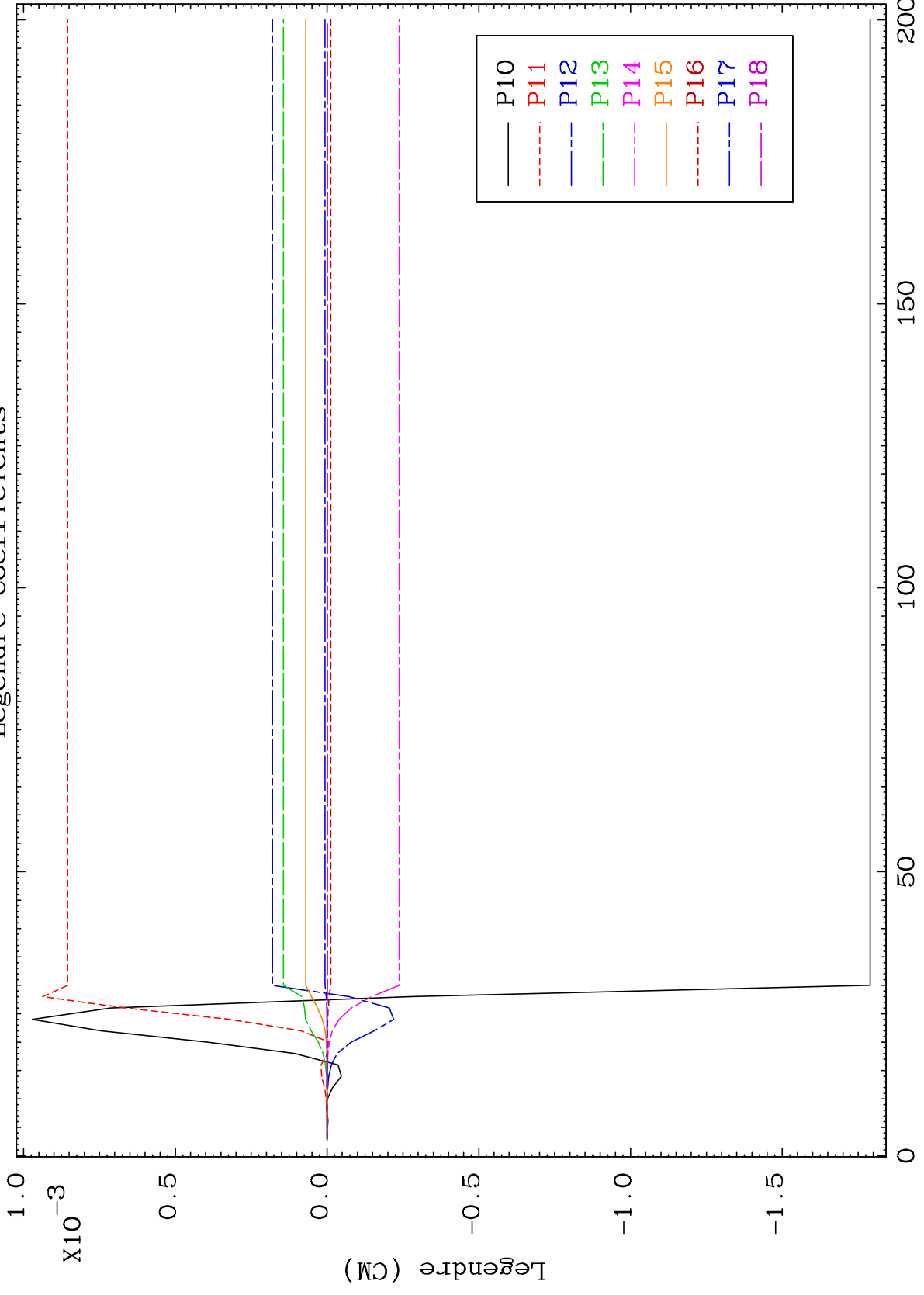


70

Incident Energy (MeV)

65-Tb-144

MAT 6480 MT= 67 (n,n') Level Legendre Coefficients 65-Tb-144

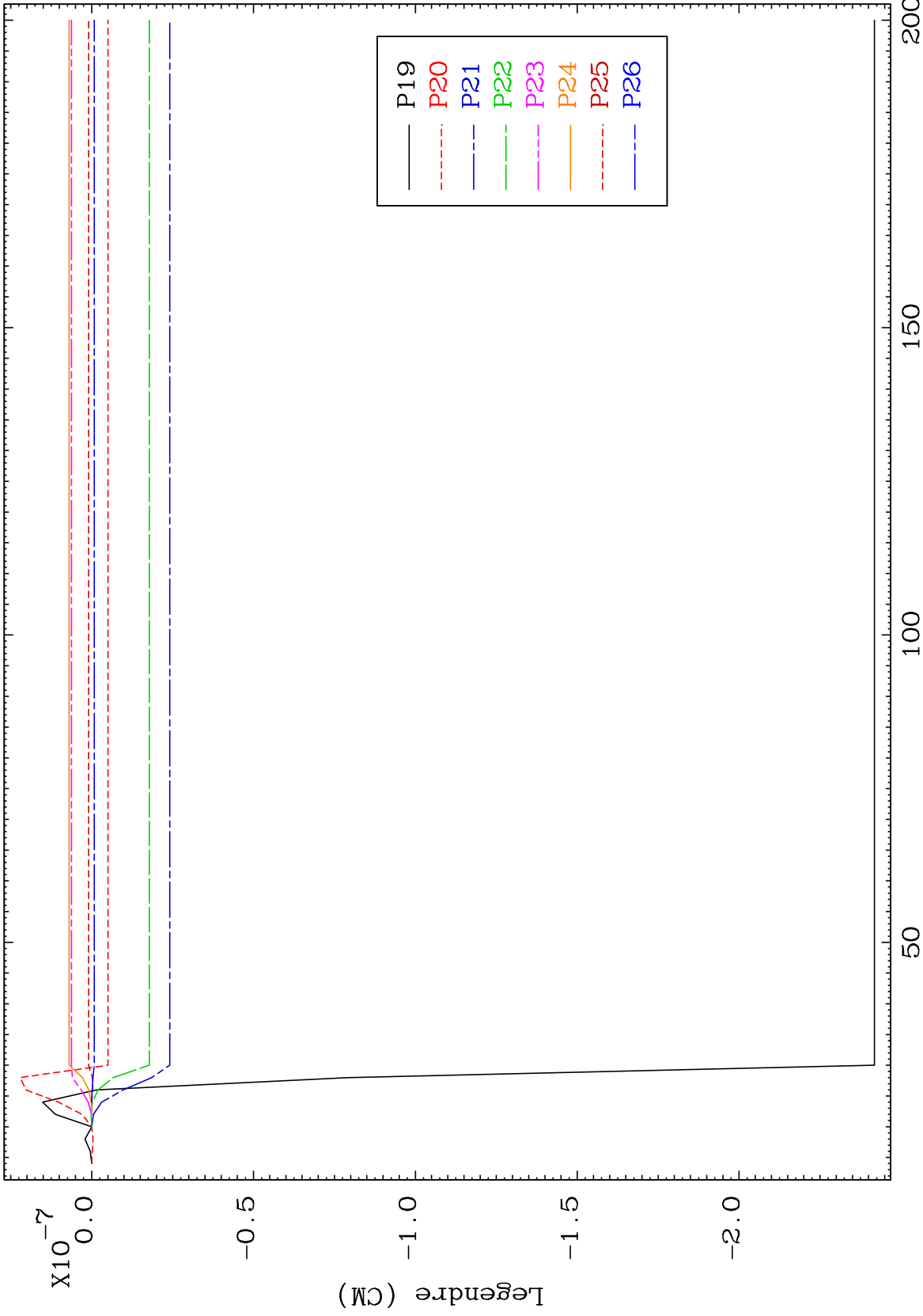


71 65-Tb-144

MAT 6480

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

65-Tb-144

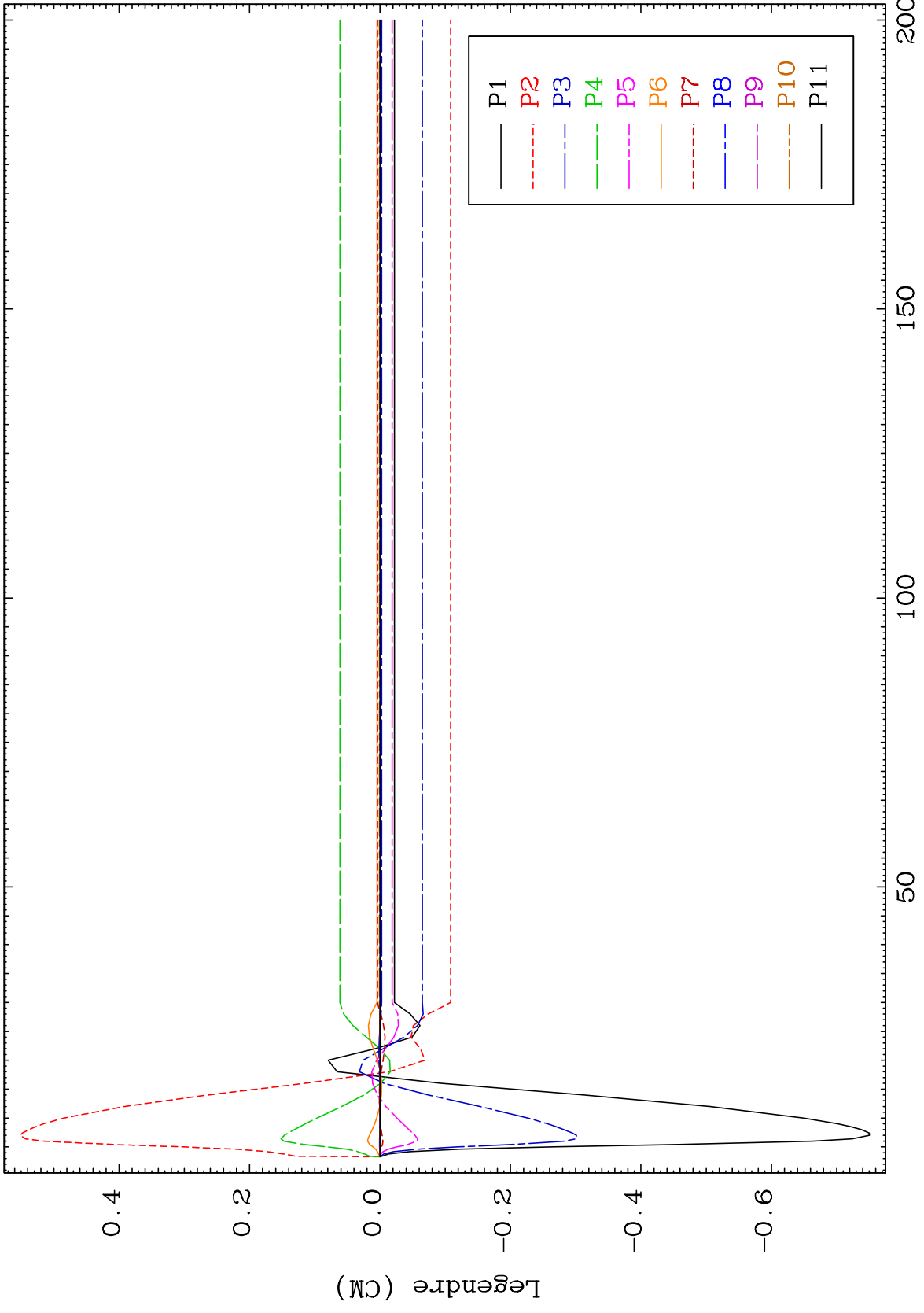


72

Incident Energy (MeV)

65-Tb-144

MAT 6480 MT= 70 (n,n') Level Legendre Coefficients 65-Tb-144

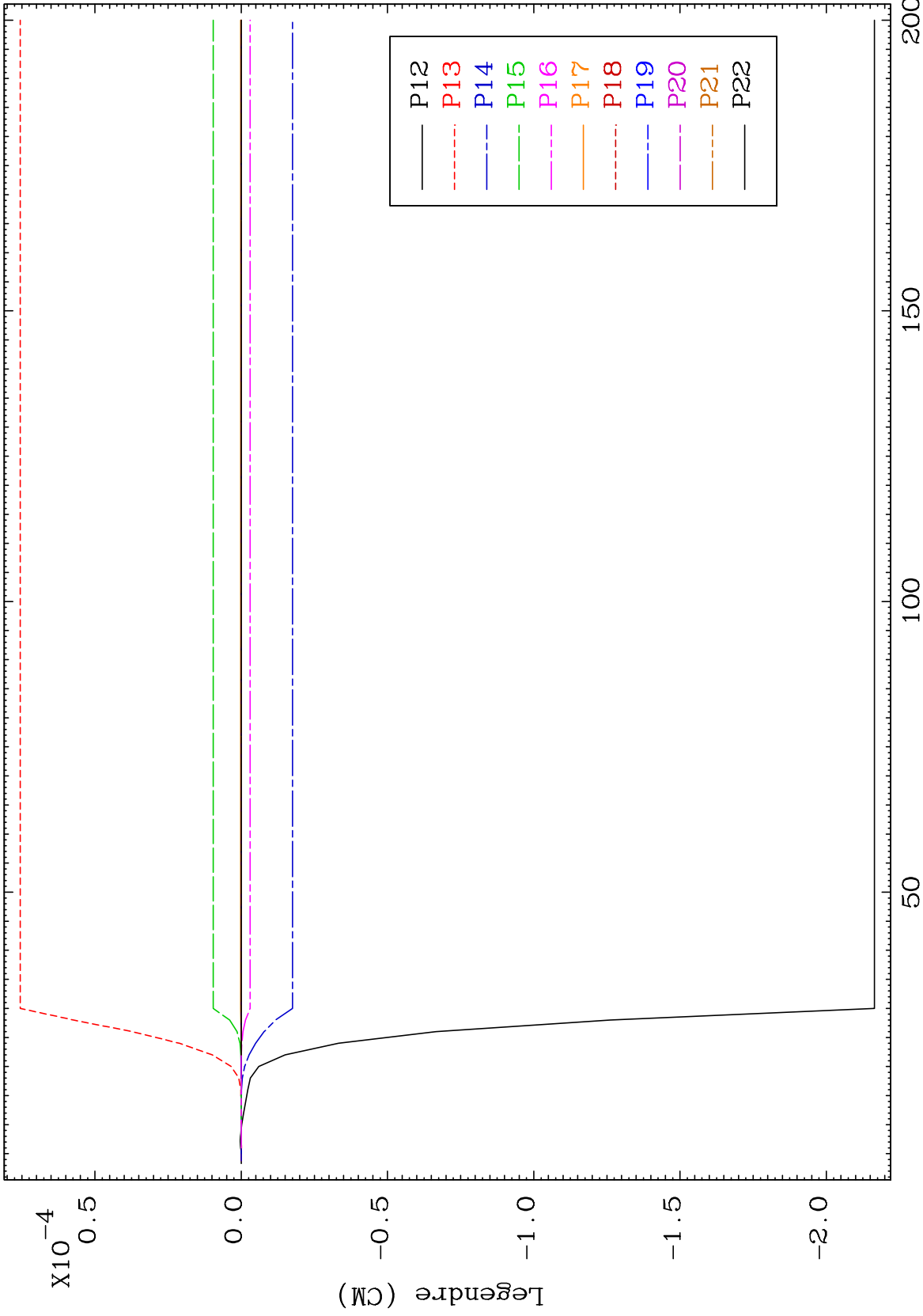


73 Incident Energy (MeV) 65-Tb-144

MAT 6480

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

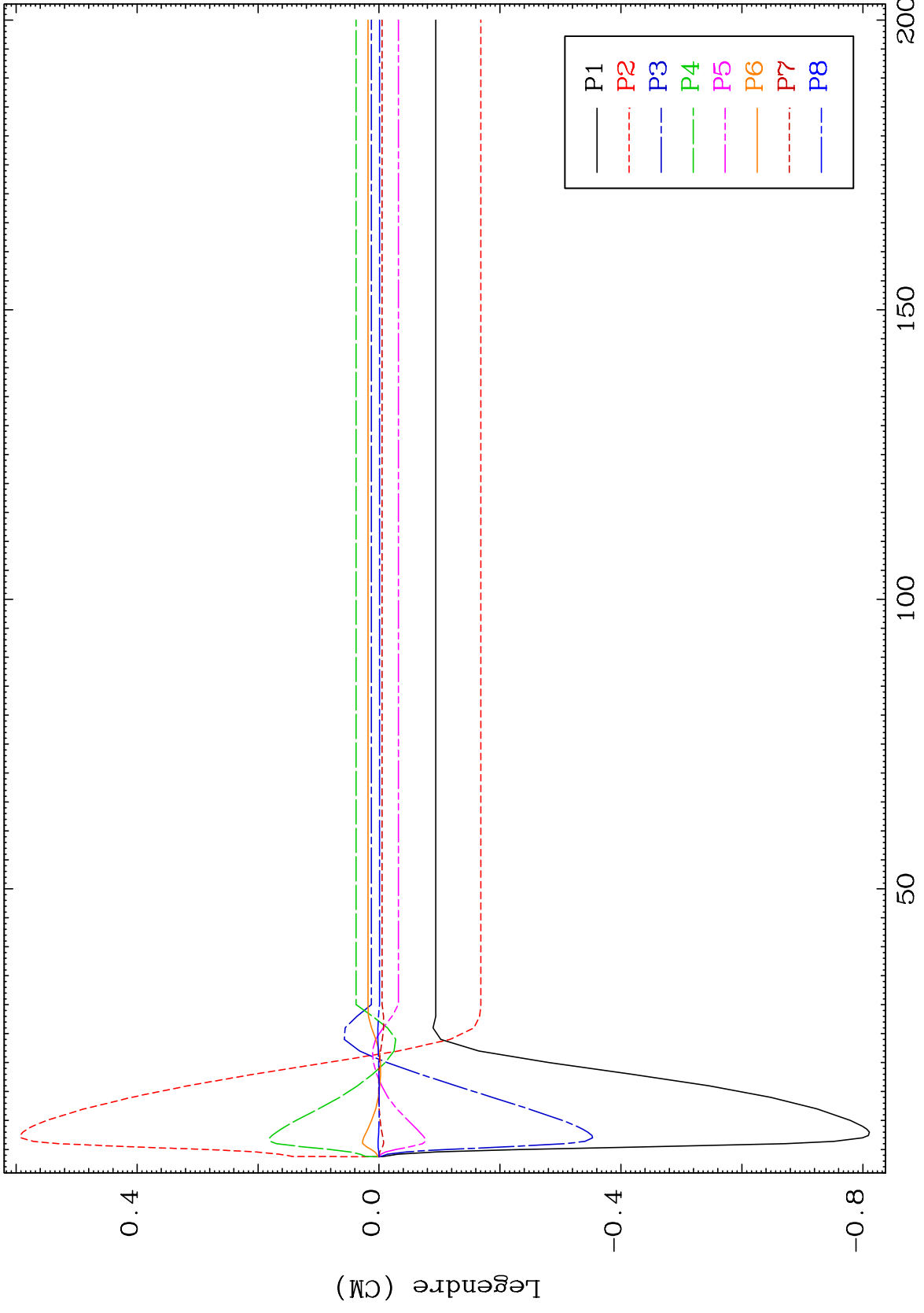
65-Tb-144



74

65-Tb-144

MAT 6480 MT= 71 (n,n') Level Legendre Coefficients 65-Tb-144

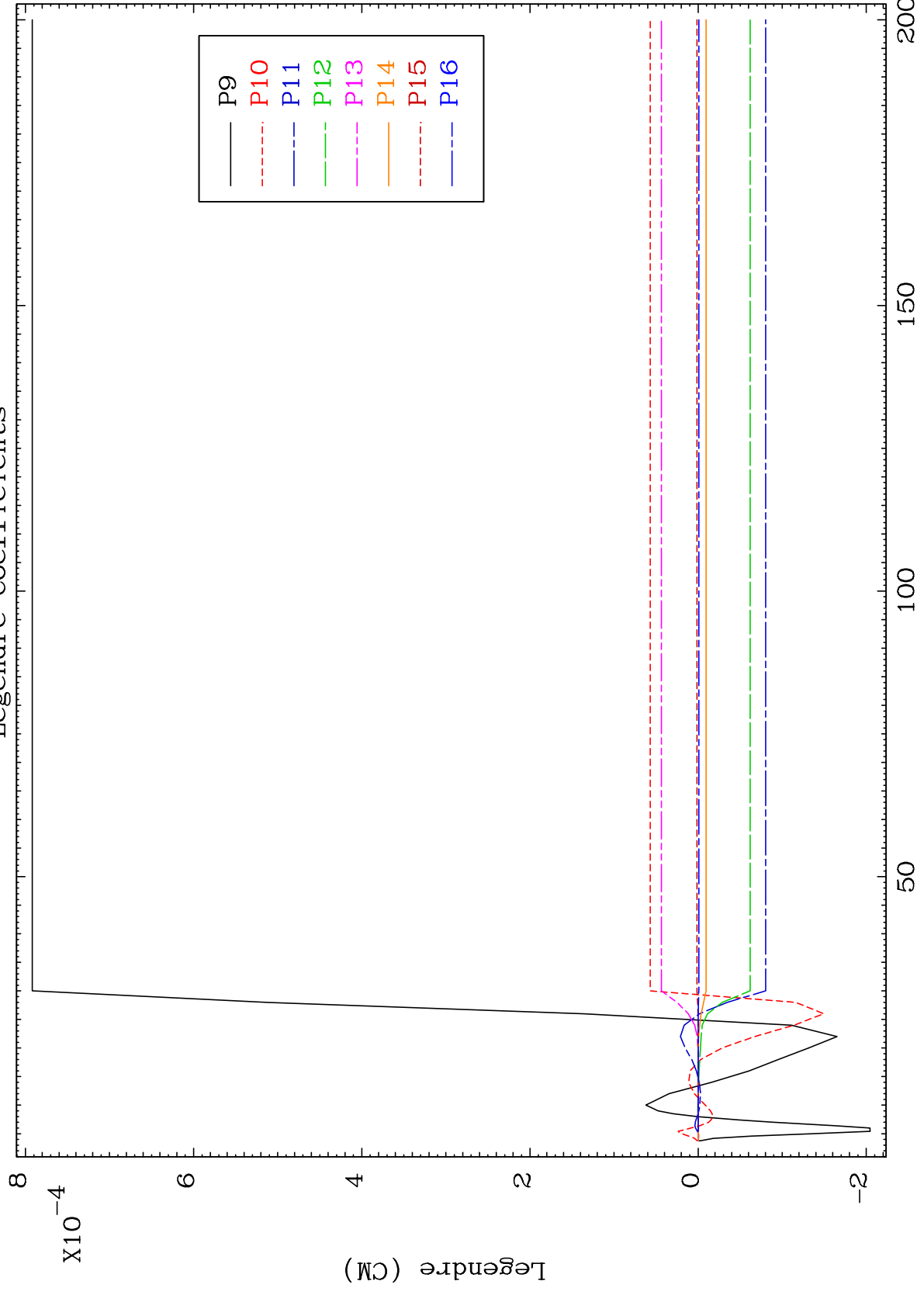


75 Incident Energy (MeV) 65-Tb-144

MAT 6480 MT= 71 (n,n') Level Legendre Coefficients

65-Tb-144

65-Tb-144

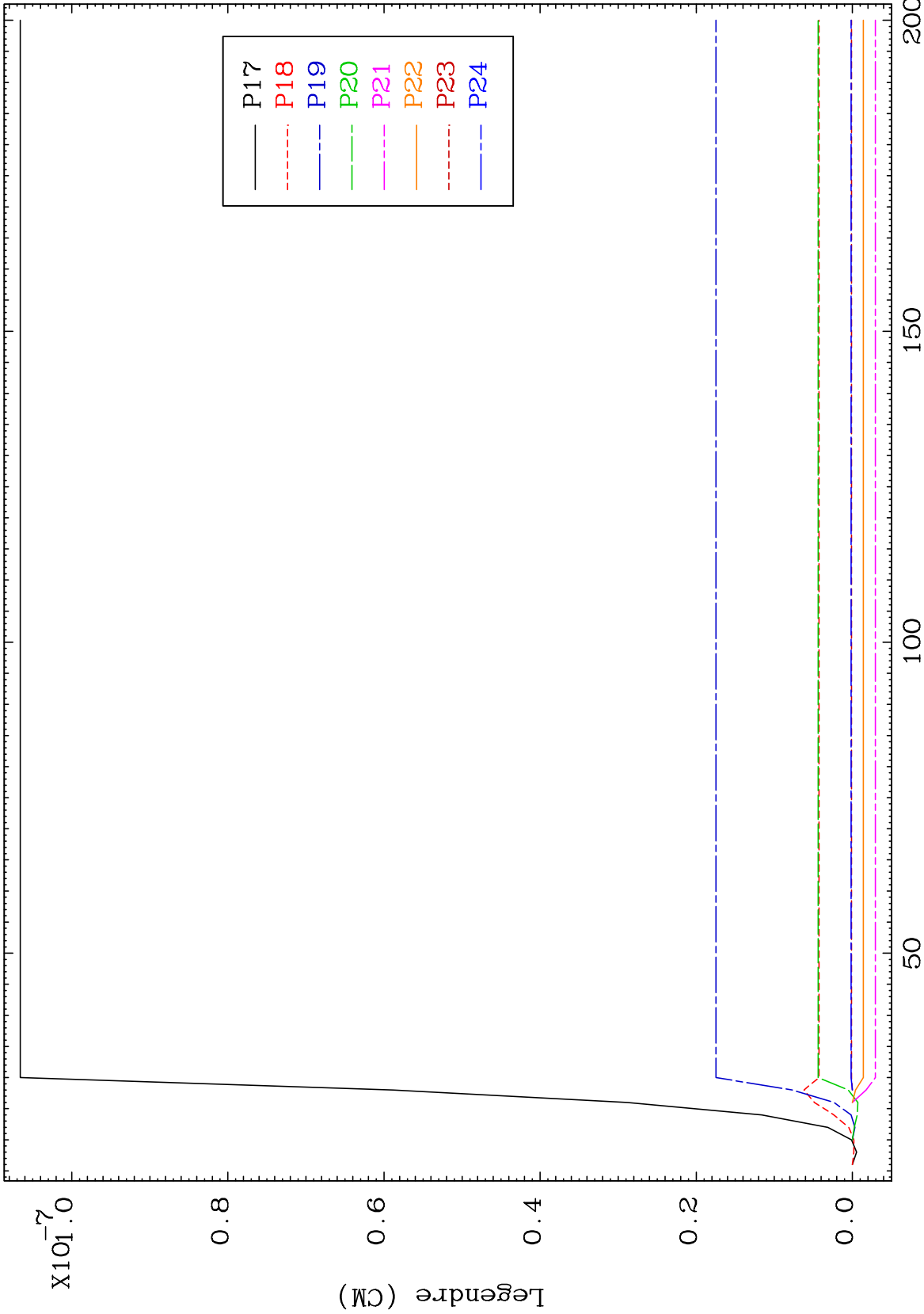


76

MAT 6480

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

65-Tb-144



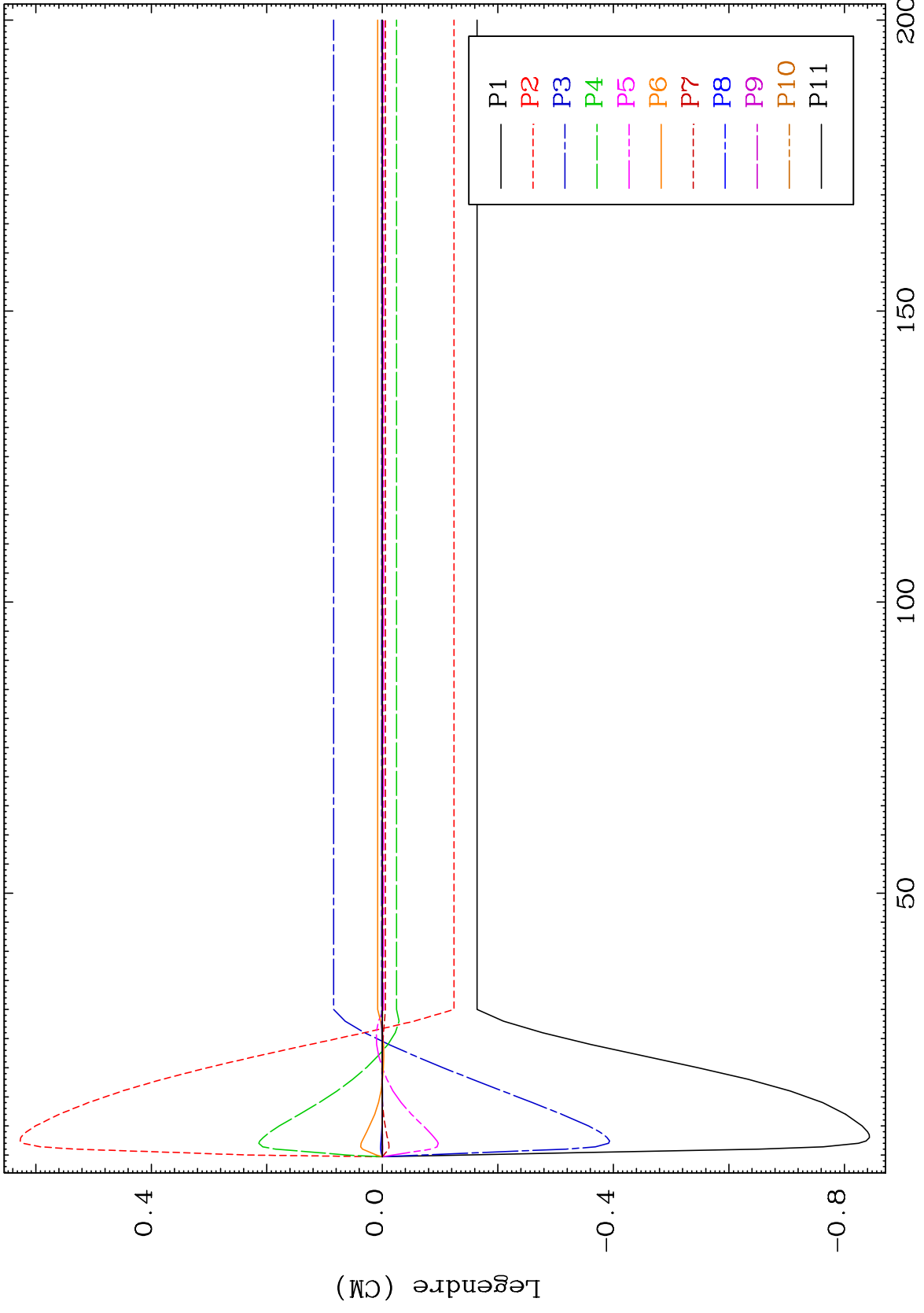
77

65-Tb-144

MAT 6480

MT= 73 (n,n') Level
Legendre Coefficients

65-Tb-144



78

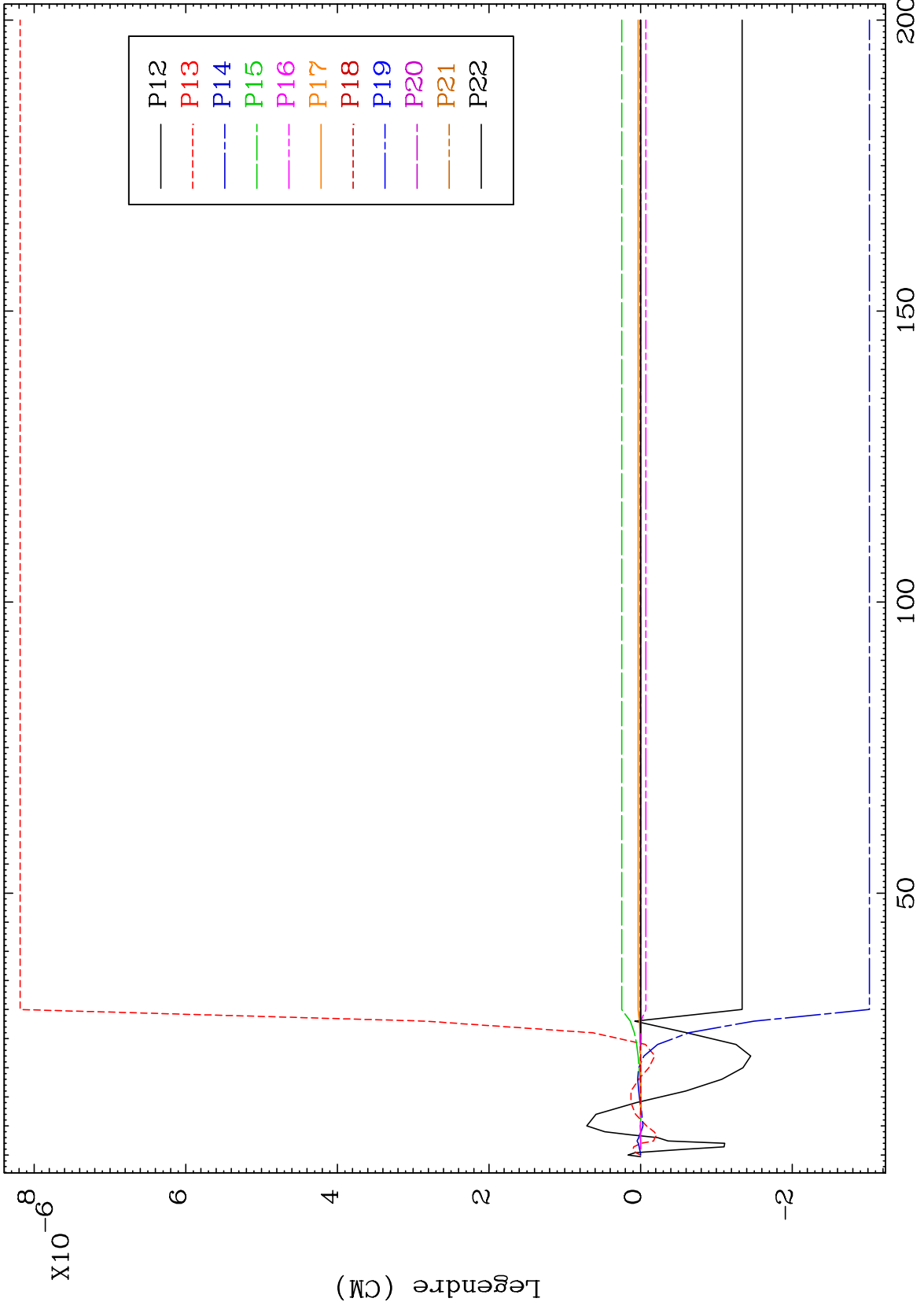
Incident Energy (MeV)

65-Tb-144

MAT 6480

MT= 73 (n,n') Level
Legendre Coefficients

65-Tb-144



79

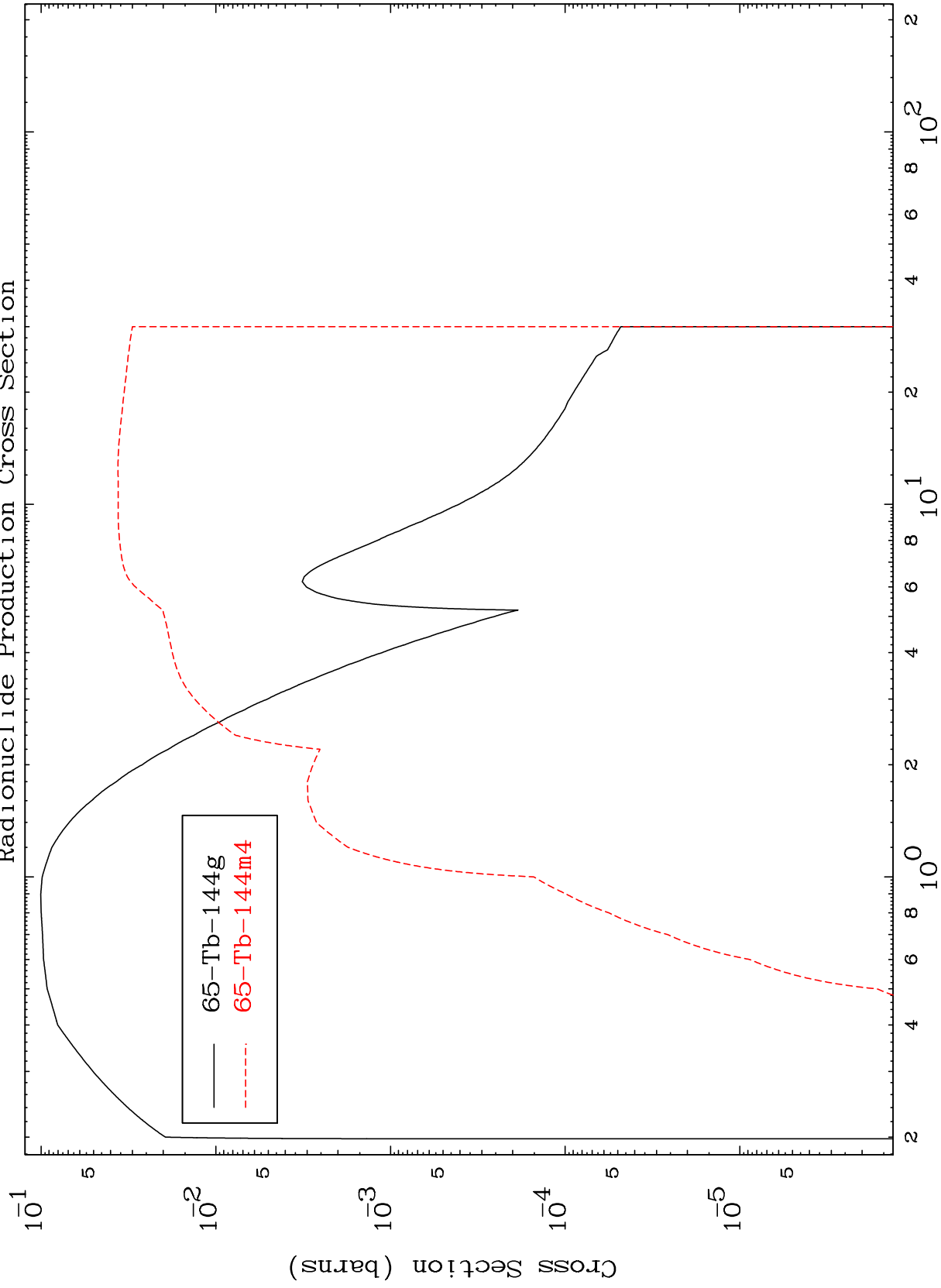
Incident Energy (MeV)

65-Tb-144

MAT 6480

65-Tb-144

Inelastic Radionuclide Production Cross Section



80

Incident Energy (MeV)

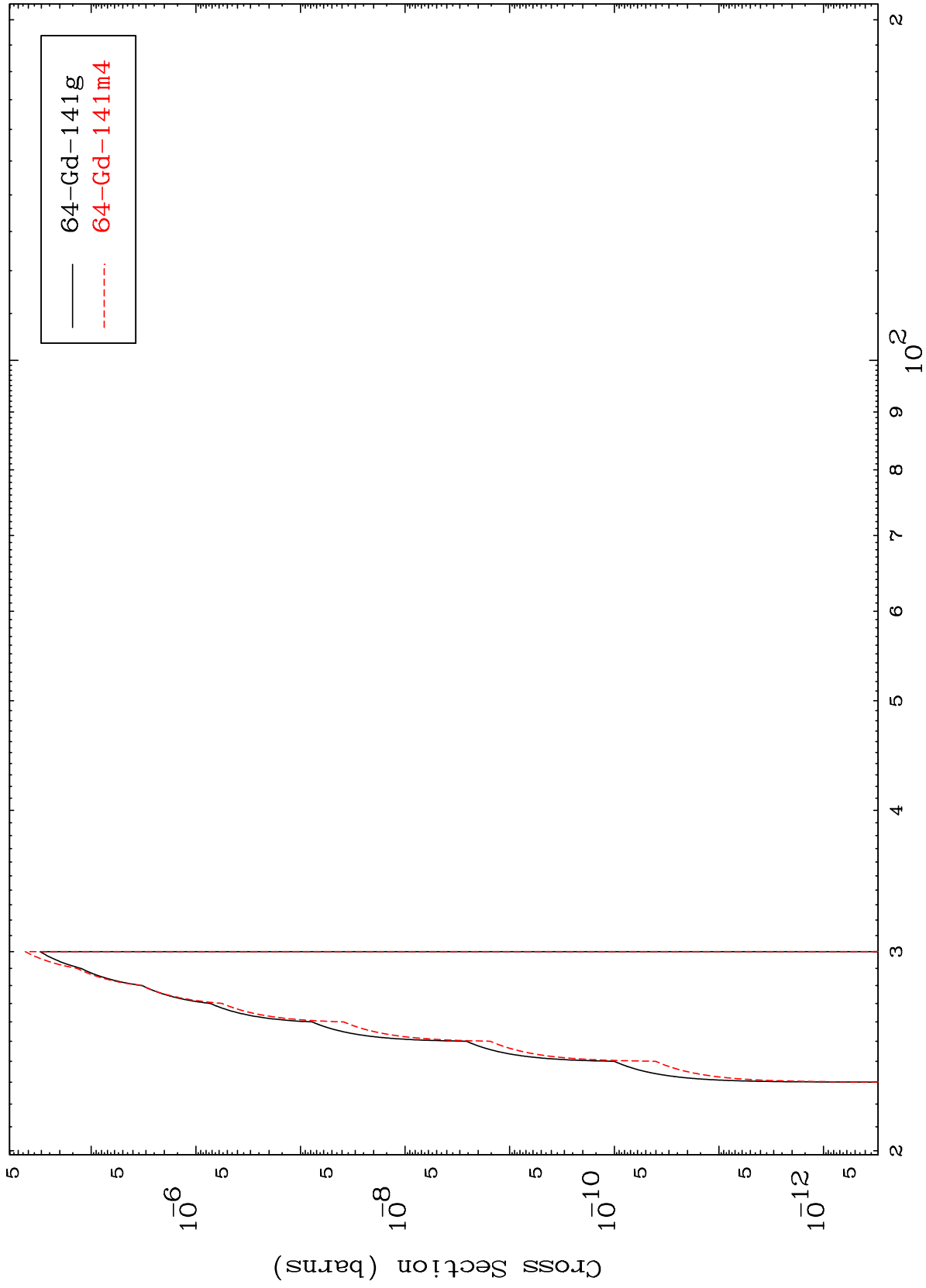
65-Tb-144

MAT 6480

(n,2n) d

65-Tb-144

Radionuclide Production Cross Section



81

Incident Energy (MeV)

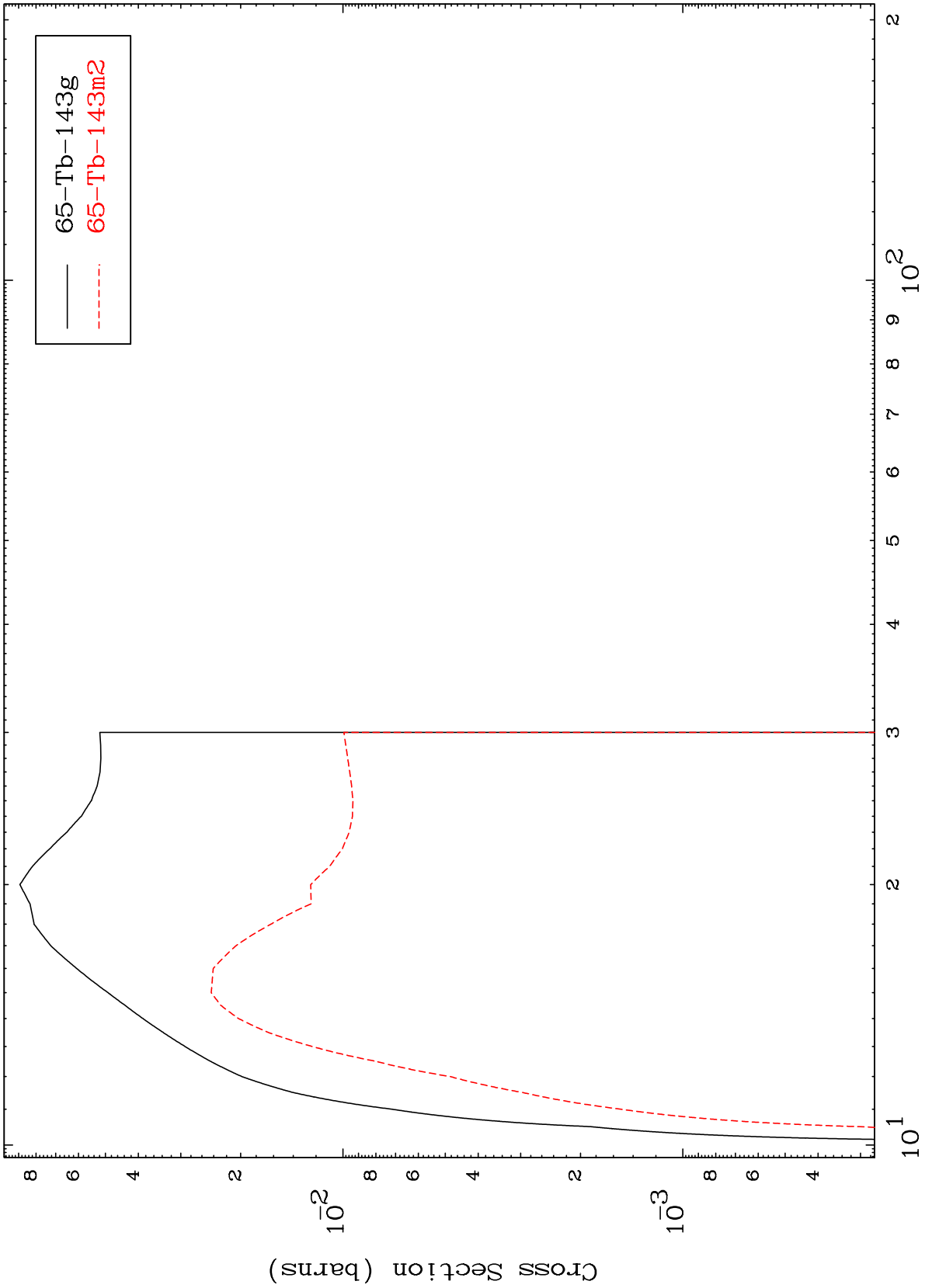
65-Tb-144

MAT 6480

(n,2n)

65-Tb-144

Radionuclide Production Cross Section



82

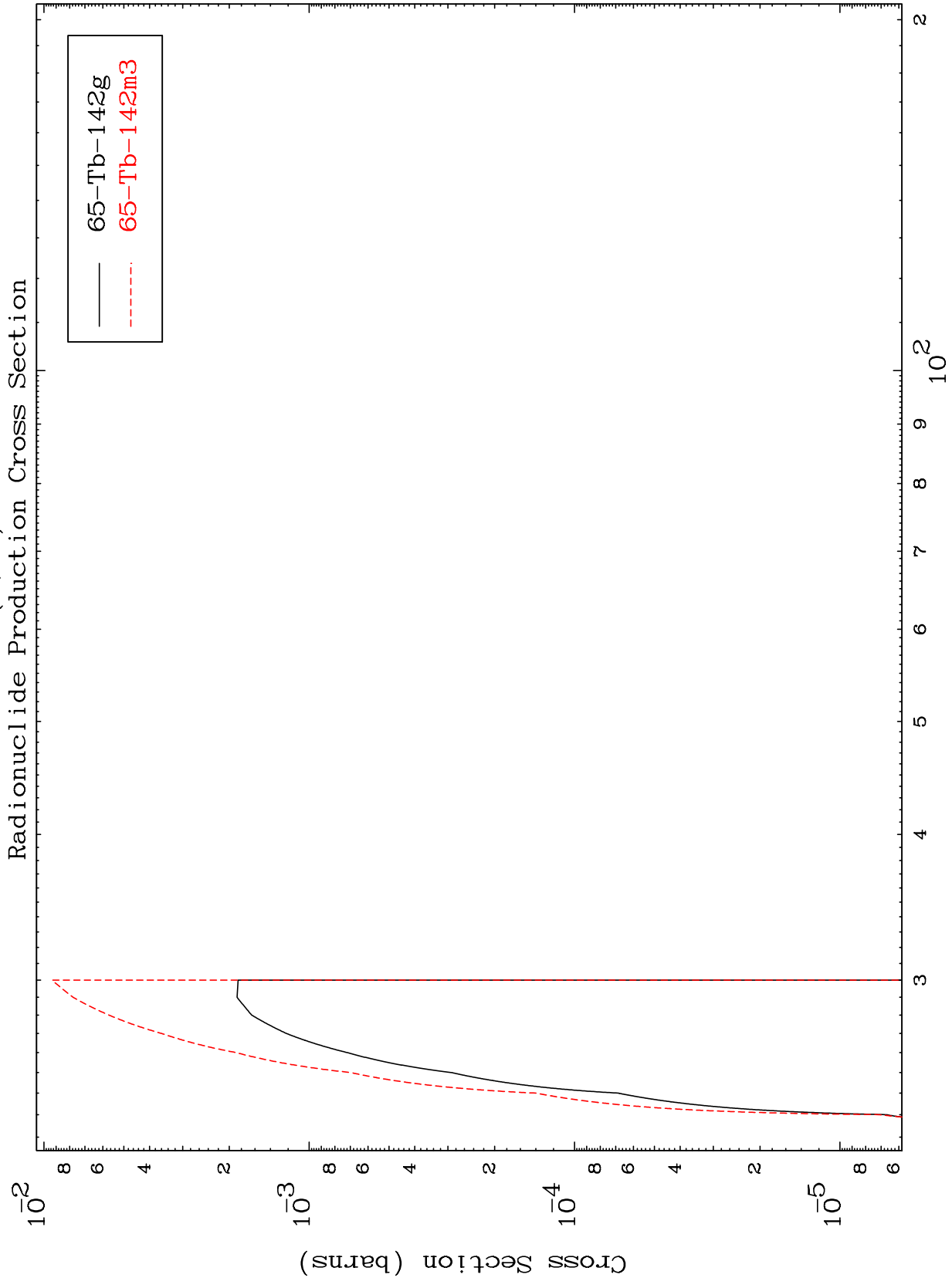
Incident Energy (MeV)

65-Tb-144

MAT 6480

(n,3n)

65-Tb-144



83

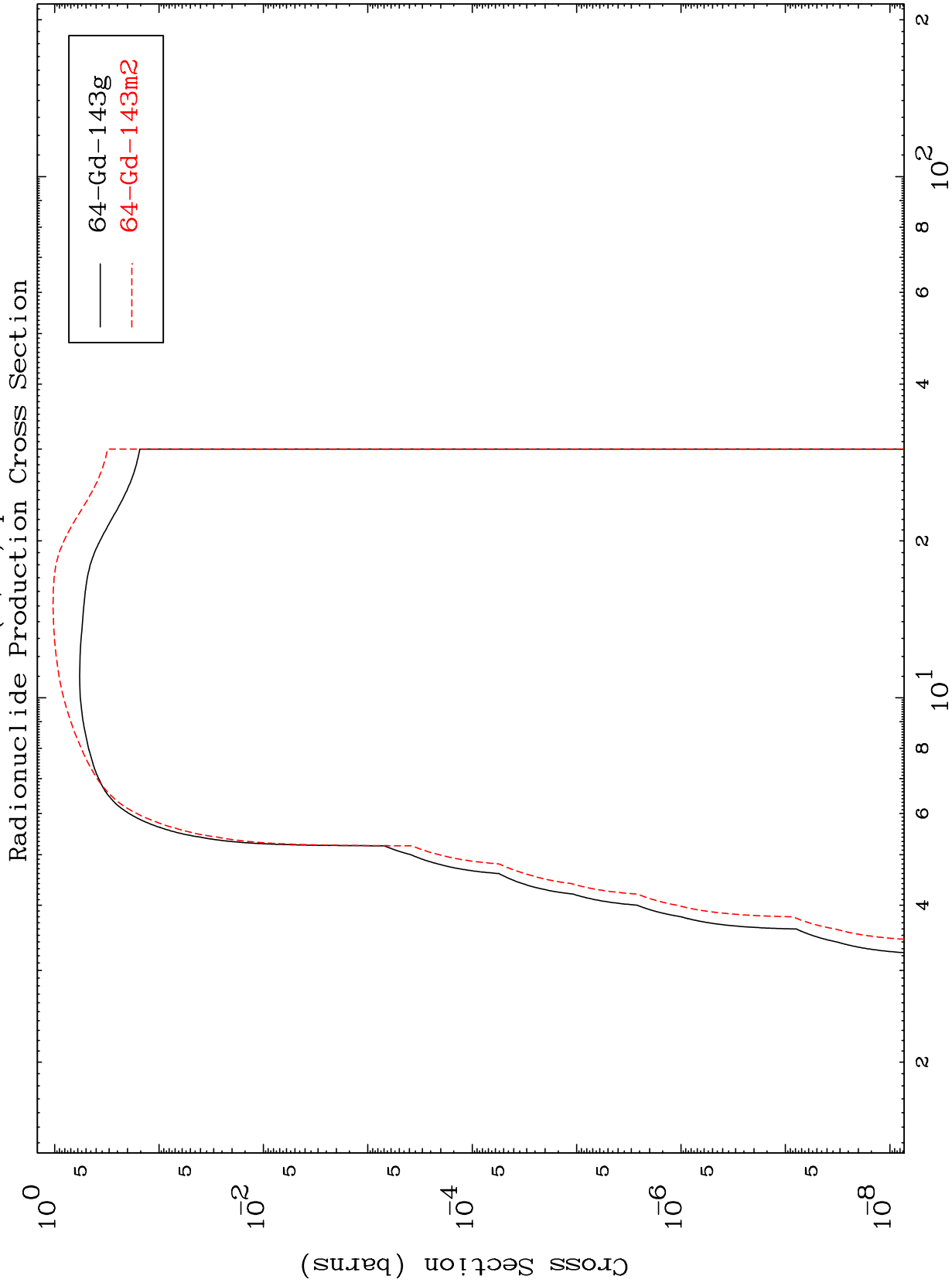
Incident Energy (MeV)

65-Tb-144

MAT 6480

(n,n') p

65-Tb-144



84

Incident Energy (MeV)

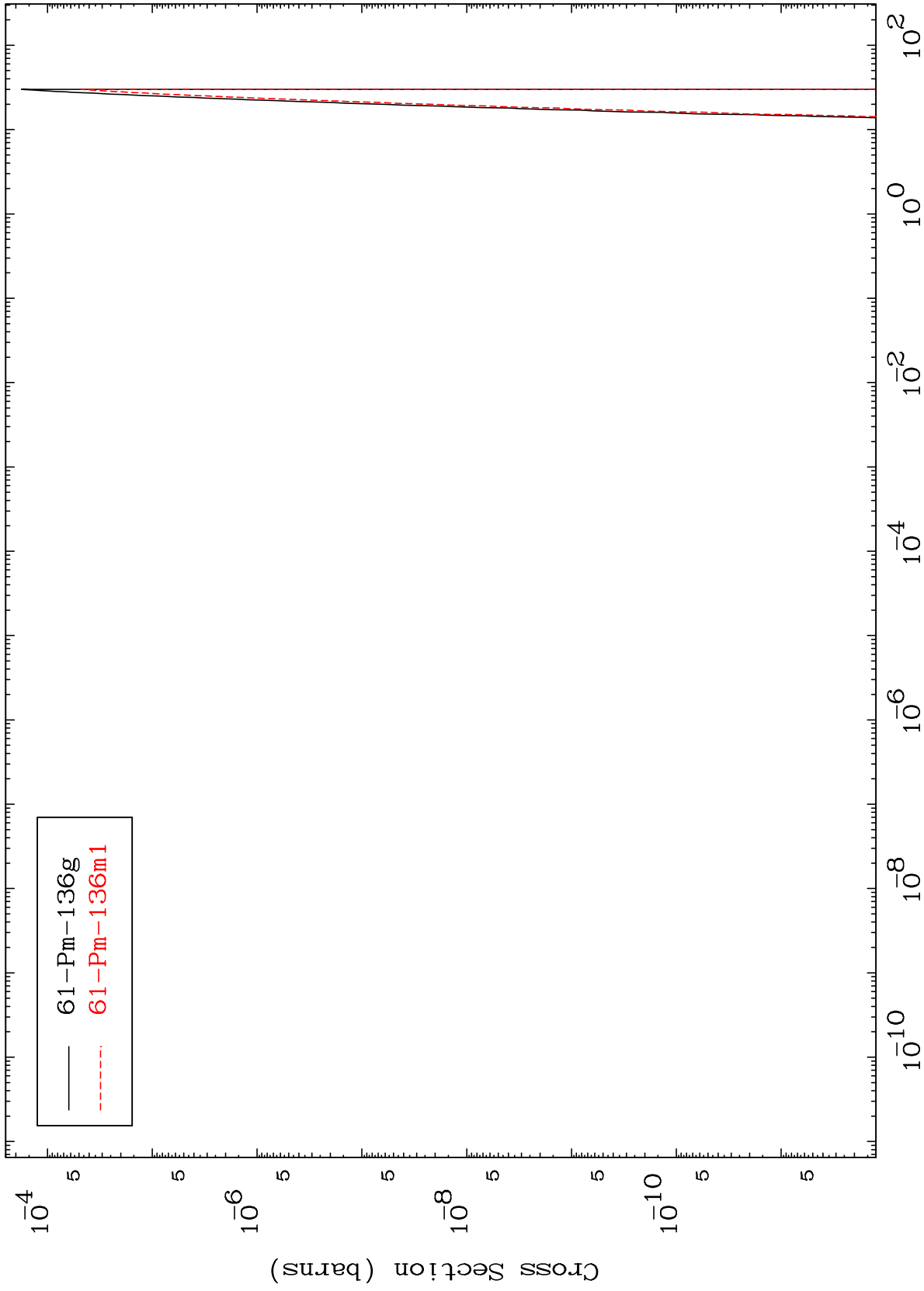
65-Tb-144

MAT 6480

(n,n') 2 α

65-Tb-144

Radionuclide Production Cross Section



85

Incident Energy (MeV)

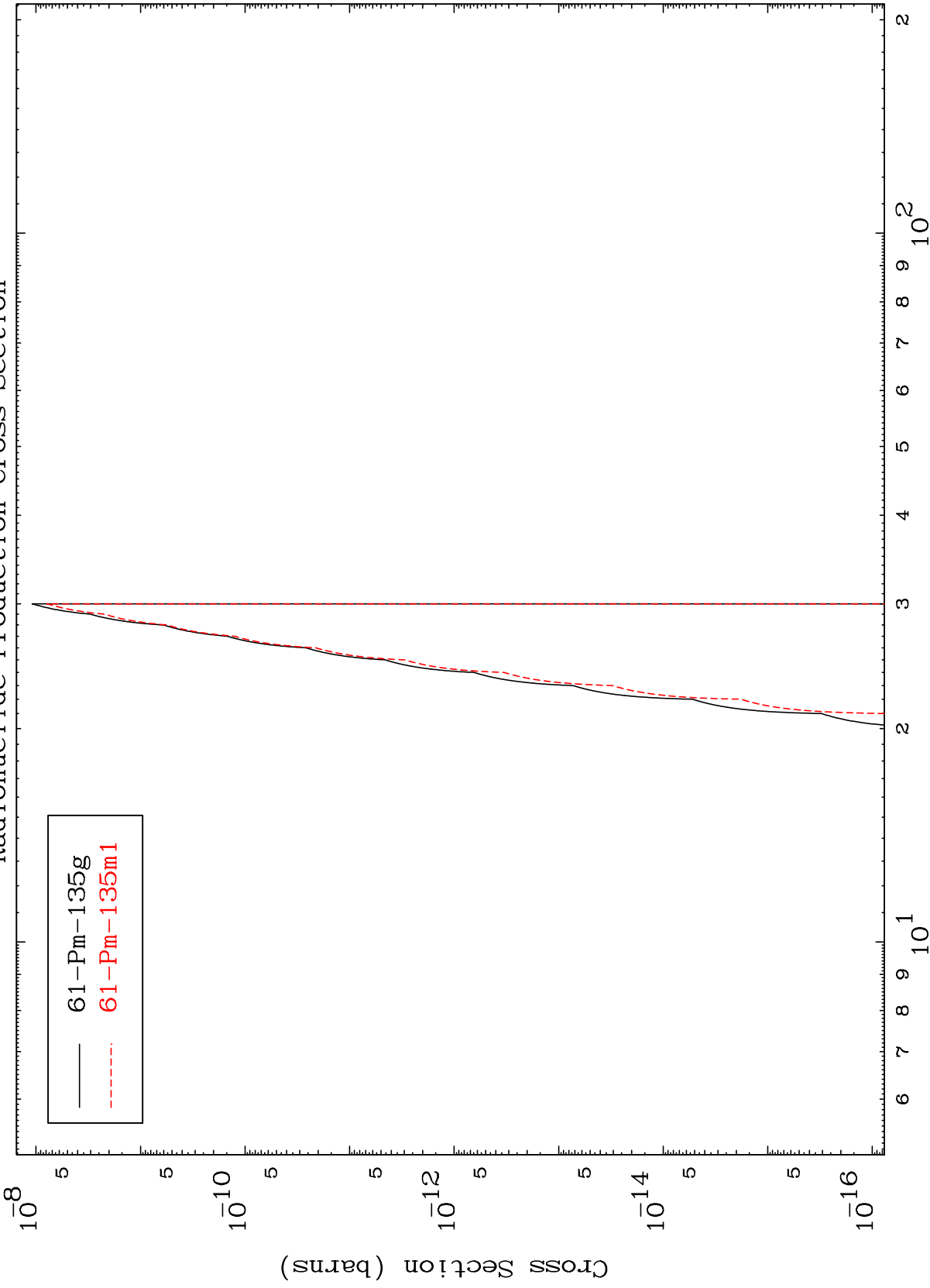
65-Tb-144

MAT 6480

(n,2n) 2 α

65-Tb-144

Radionuclide Production Cross Section



86

Incident Energy (MeV)

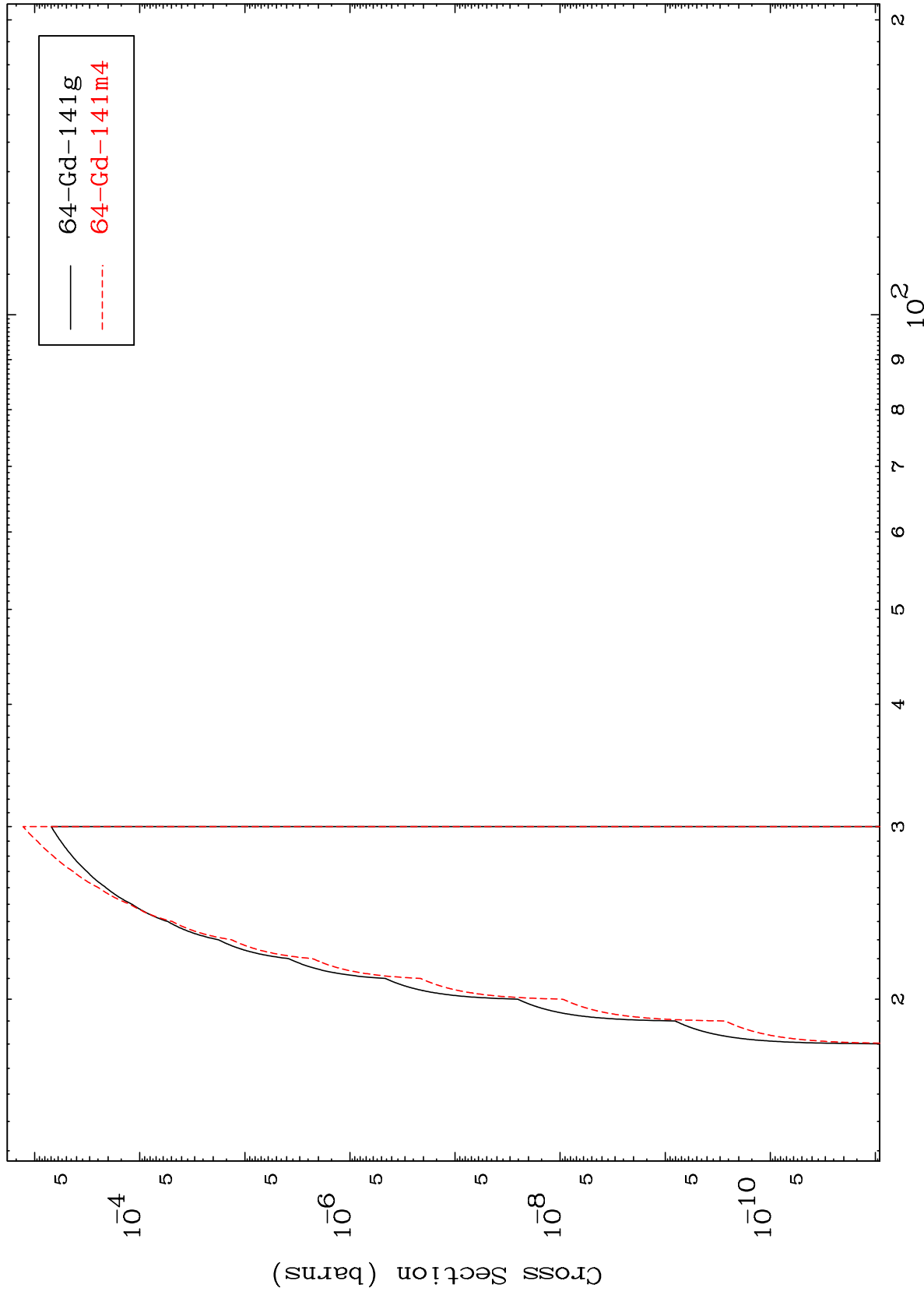
65-Tb-144

MAT 6480

(n,n') t

65-Tb-144

Radionuclide Production Cross Section



87

Incident Energy (MeV)

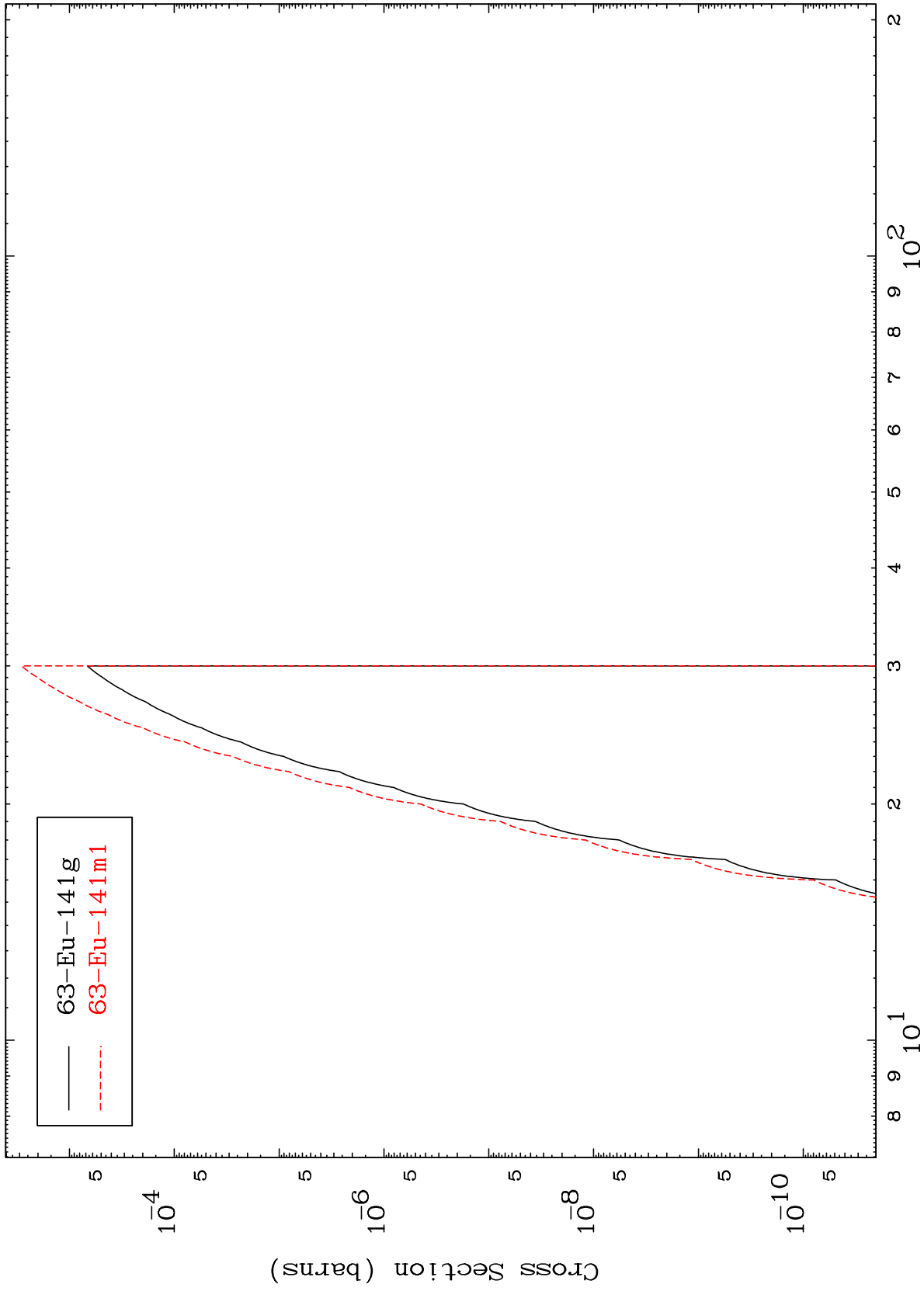
65-Tb-144

MAT 6480

(n, n') He-3

65-Tb-144

Radionuclide Production Cross Section



88

Incident Energy (MeV)

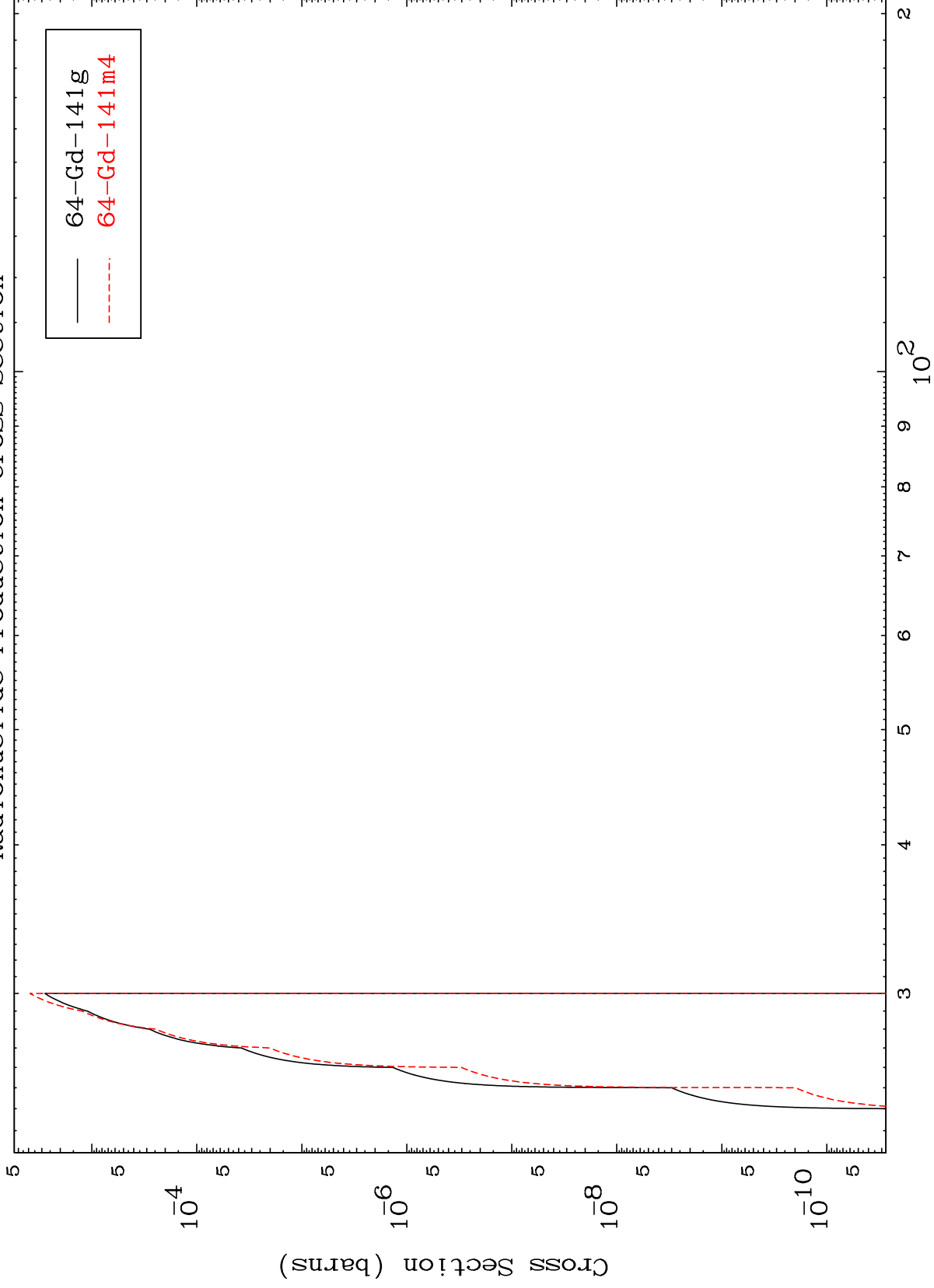
65-Tb-144

MAT 6480

(n,3n) p

65-Tb-144

Radionuclide Production Cross Section



89

Incident Energy (MeV)

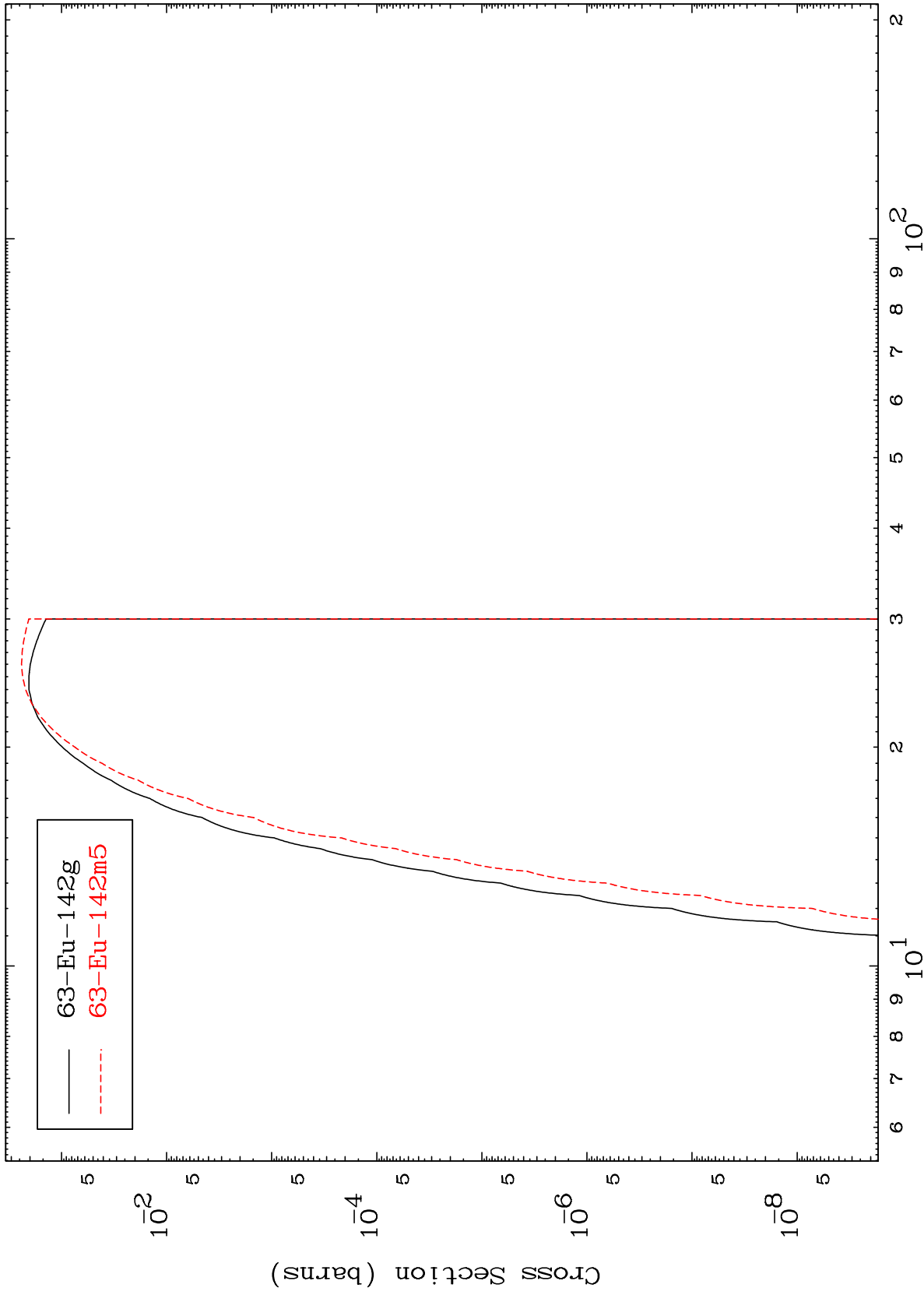
65-Tb-144

MAT 6480

(n,2n) p

65-Tb-144

Radionuclide Production Cross Section



90

Incident Energy (MeV)

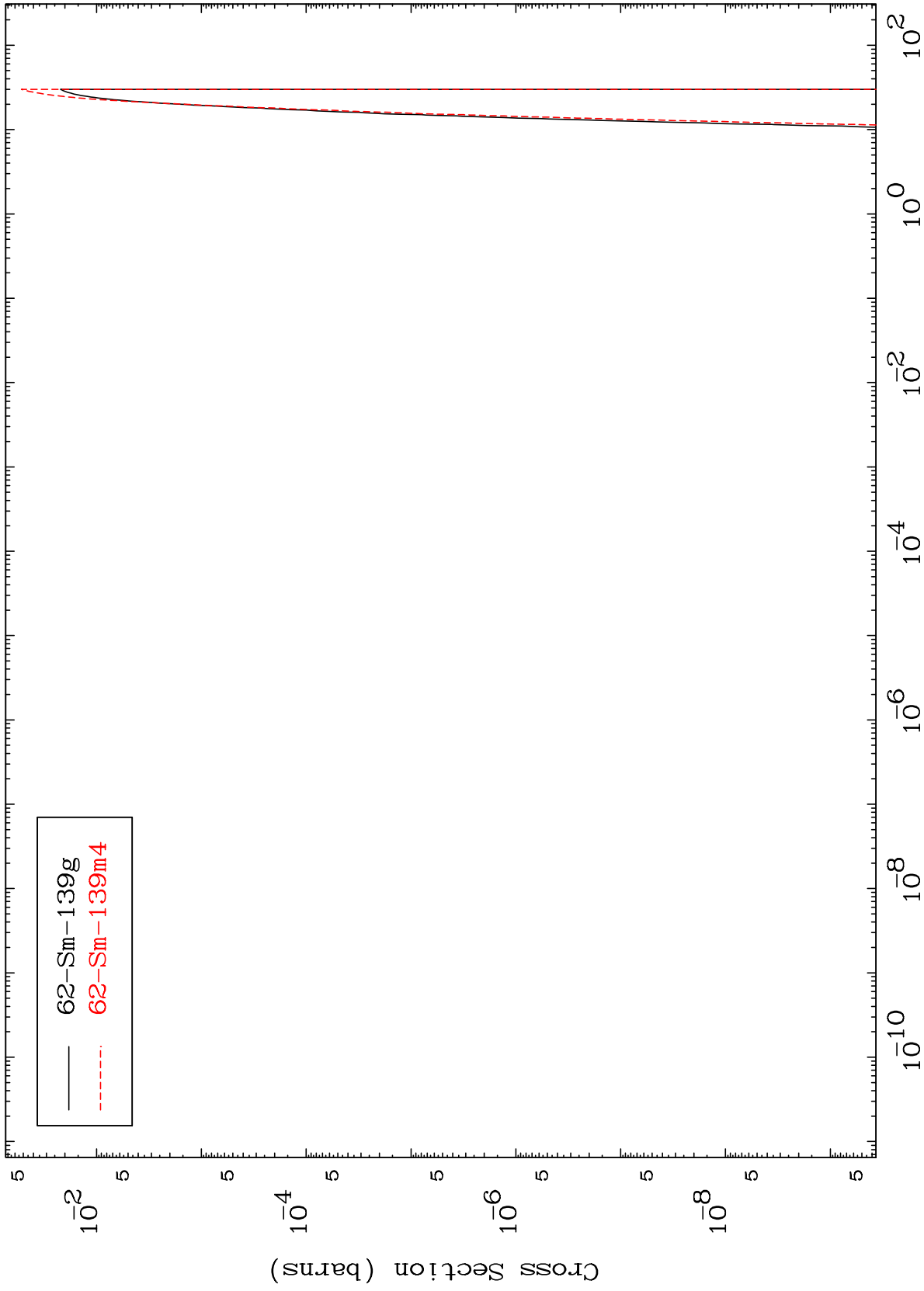
65-Tb-144

MAT 6480

(n,n') p α

65-Tb-144

Radionuclide Production Cross Section



91

Incident Energy (MeV)

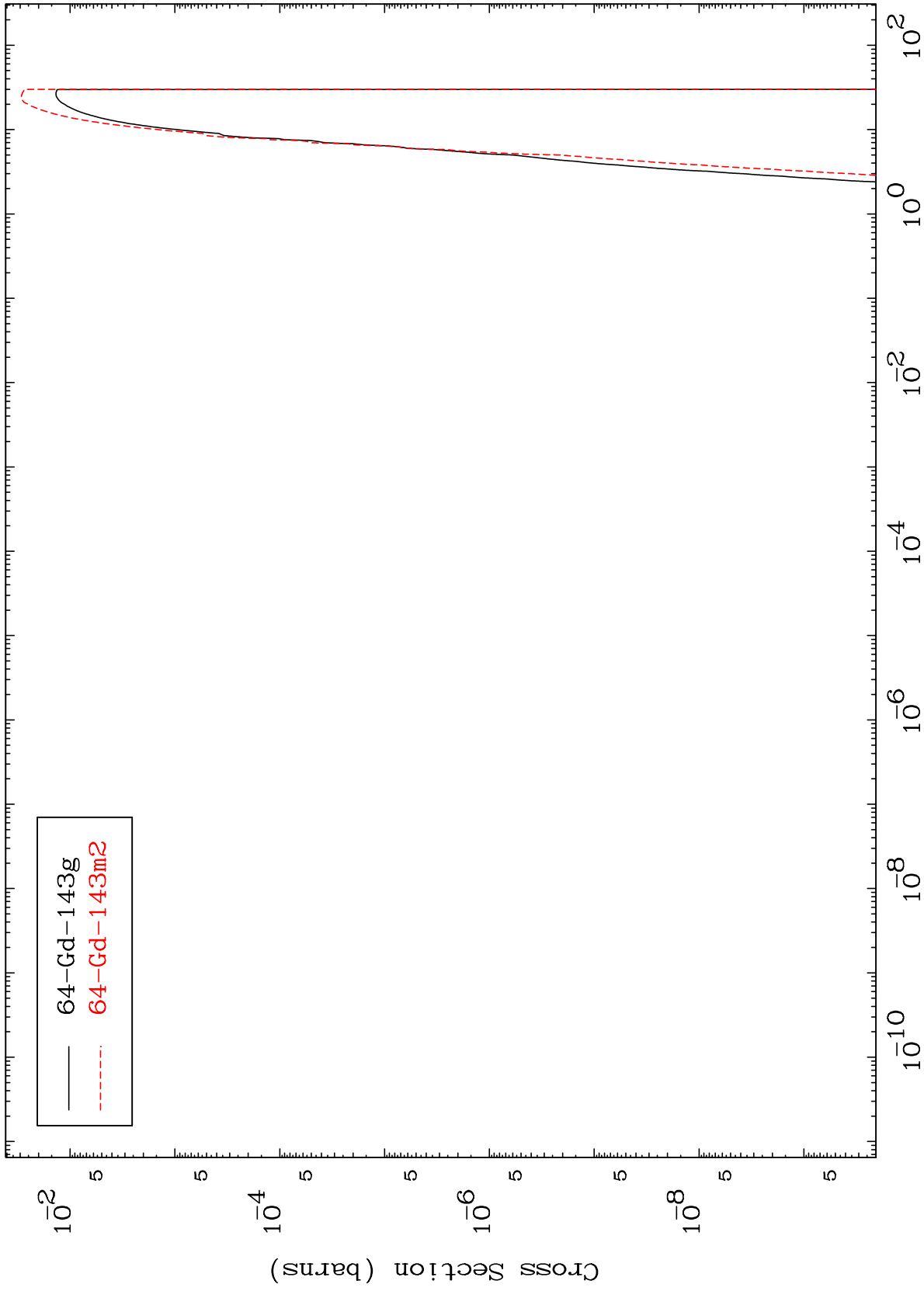
65-Tb-144

MAT 6480

(n,d)

65-Tb-144

Radionuclide Production Cross Section



92

Incident Energy (MeV)

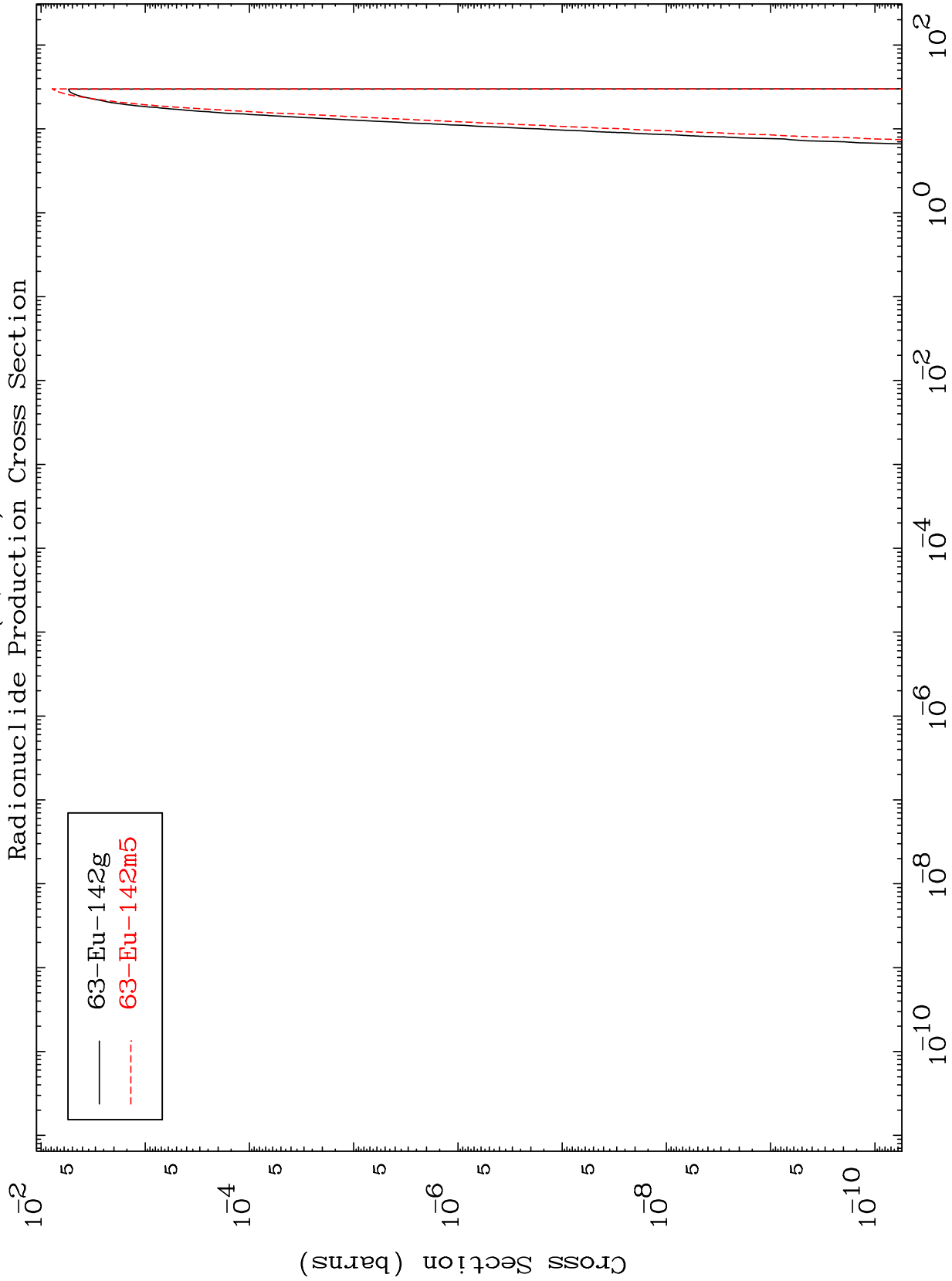
65-Tb-144

MAT 6480

(n, He-3)

65-Tb-144

Radionuclide Production Cross Section



63-Eu-142g
63-Eu-142m5

93

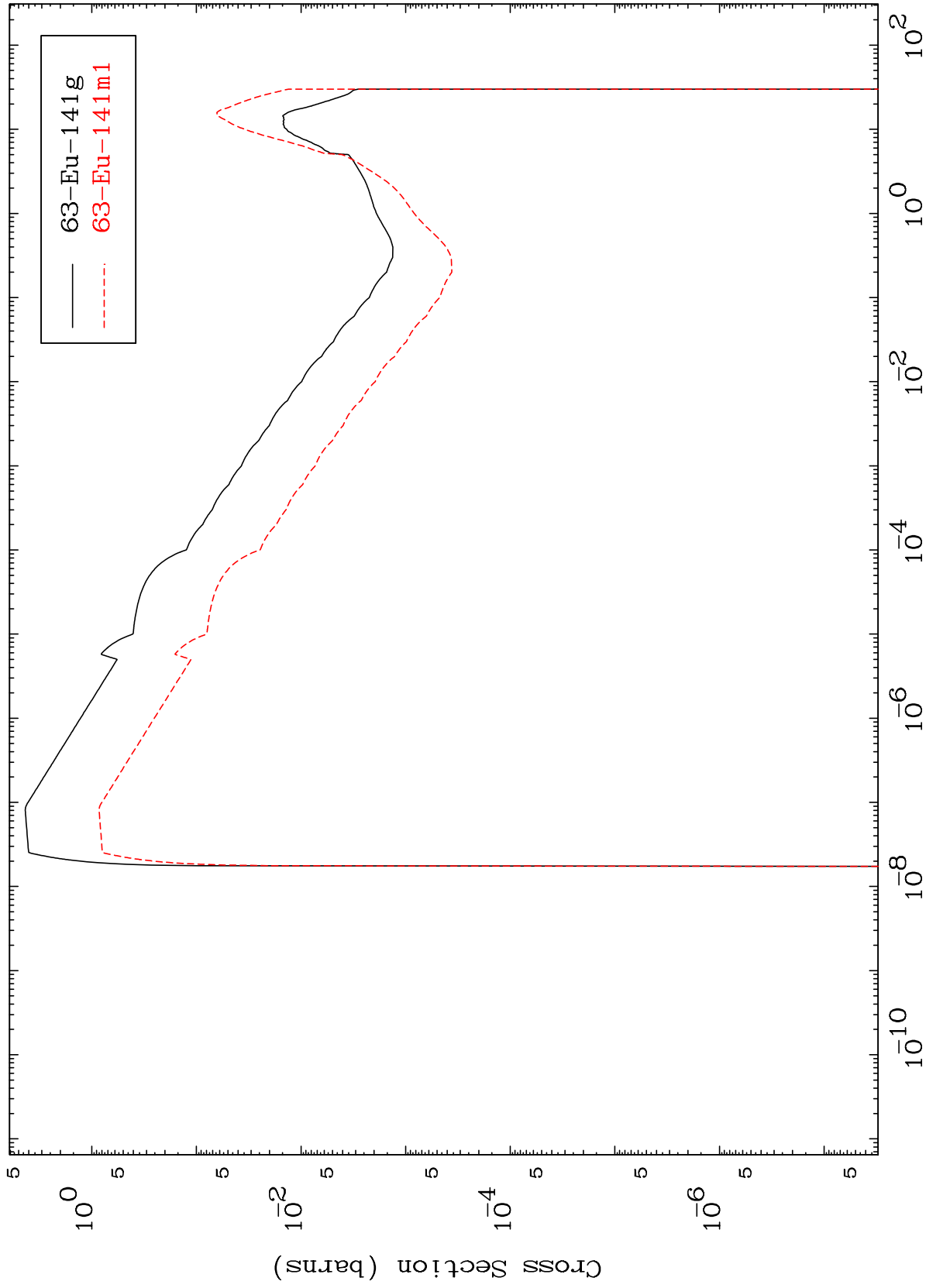
Incident Energy (MeV)

65-Tb-144

MAT 6480

65-Tb-144

(n,α)
Radionuclide Production Cross Section



94

Incident Energy (MeV)

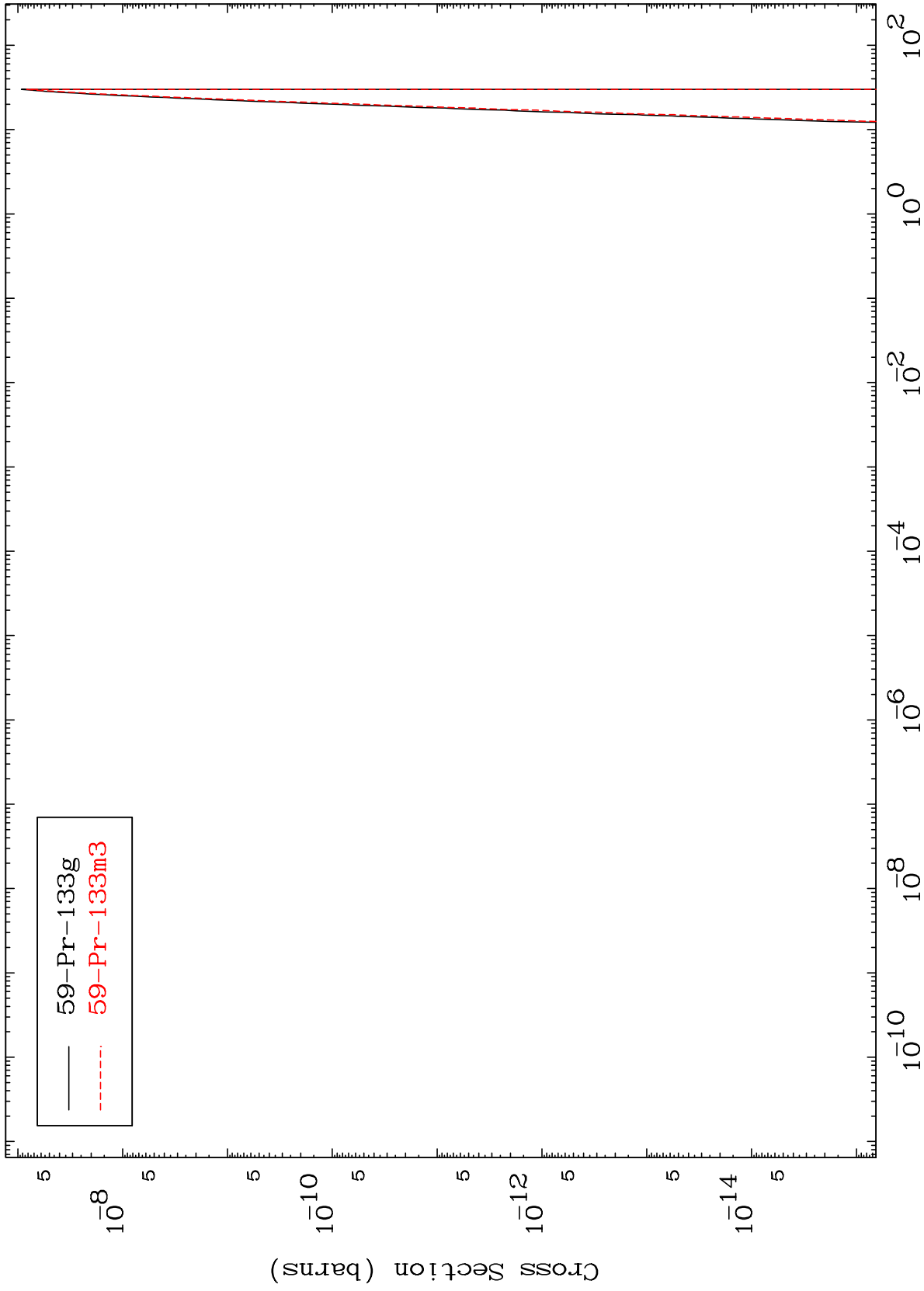
65-Tb-144

MAT 6480

(n,3α)

65-Tb-144

Radionuclide Production Cross Section



95

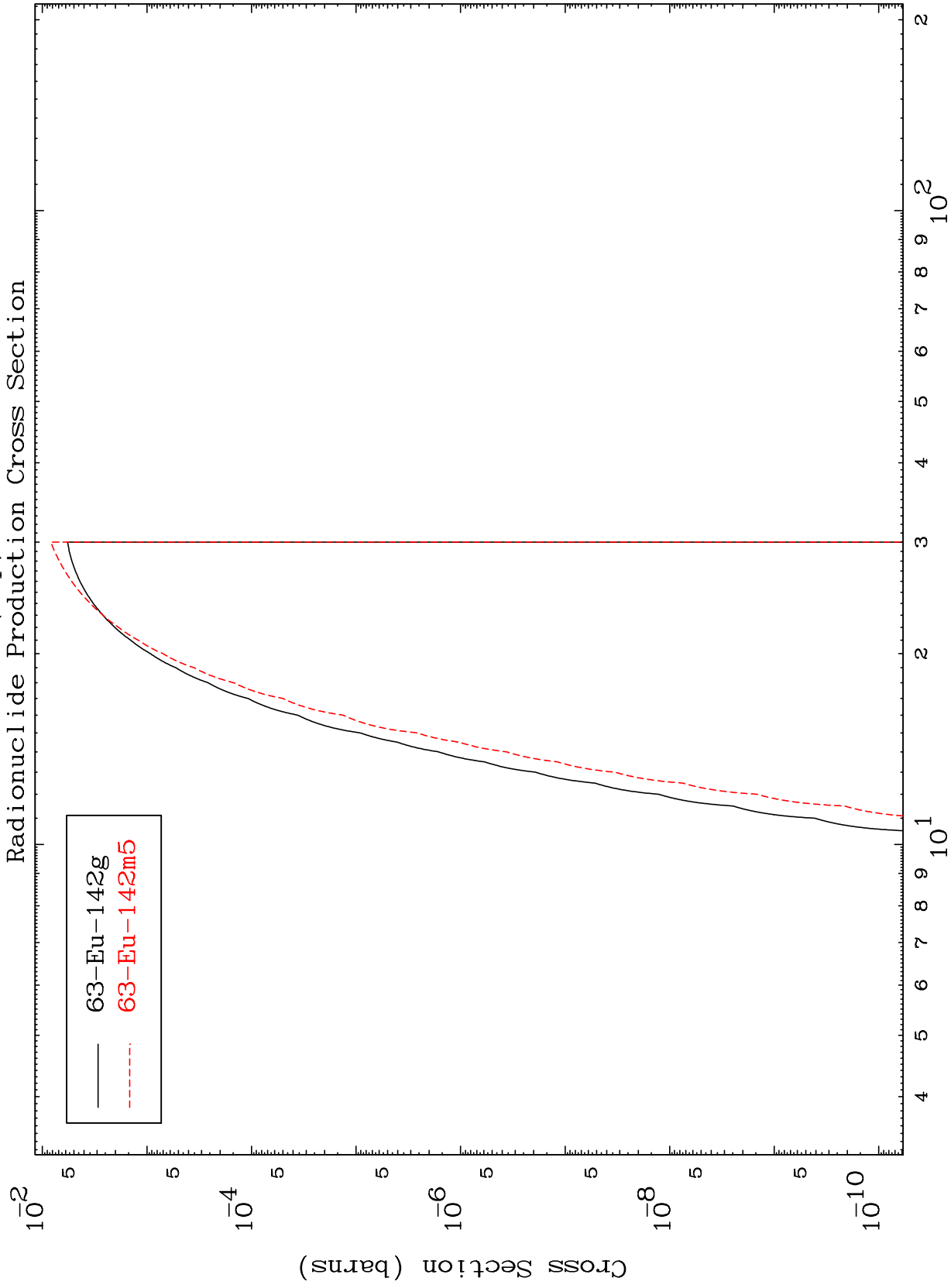
Incident Energy (MeV)

65-Tb-144

MAT 6480

(n,p) d

65-Tb-144



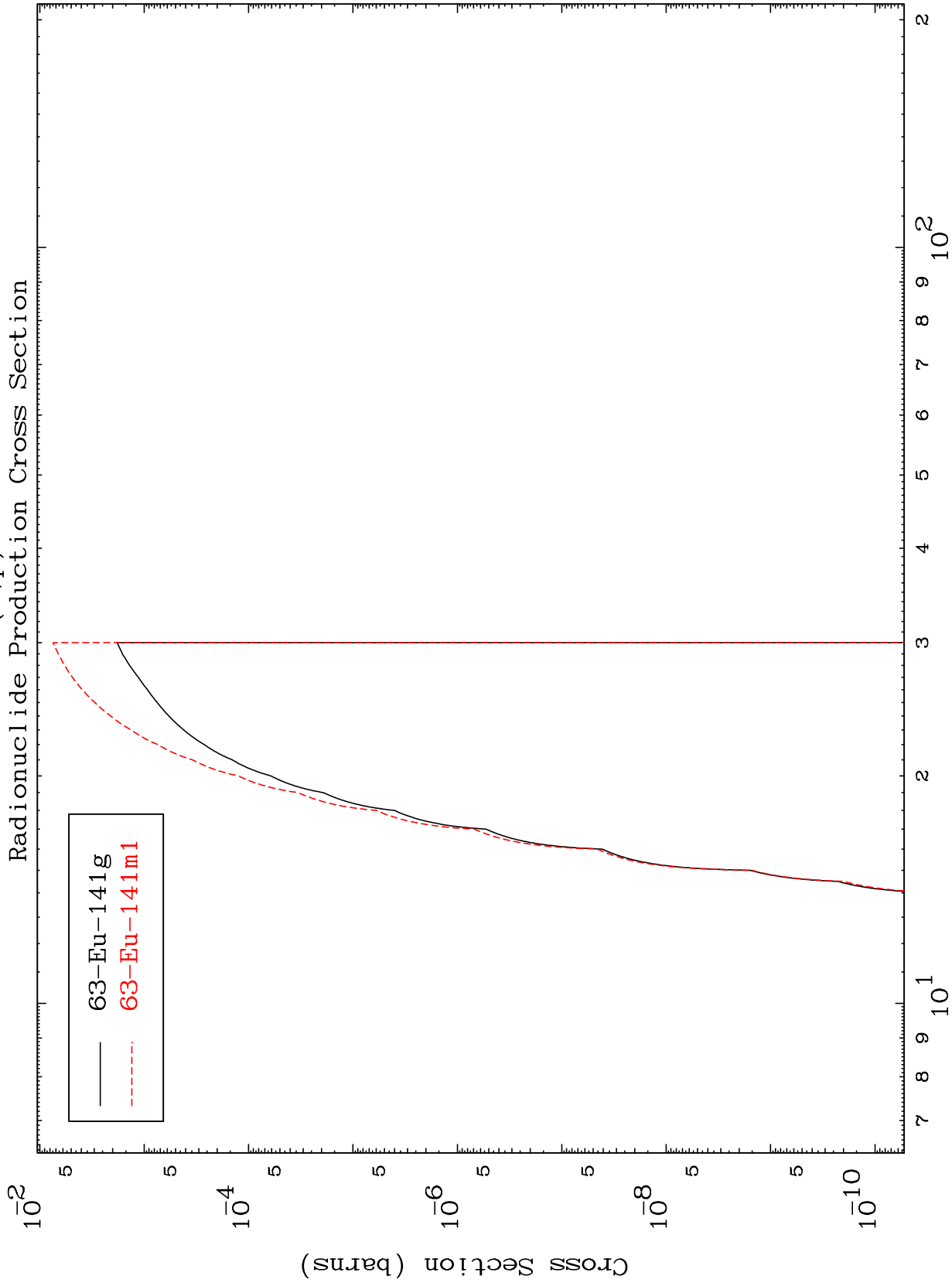
96

65-Tb-144

MAT 6480

(n,p) t

65-Tb-144



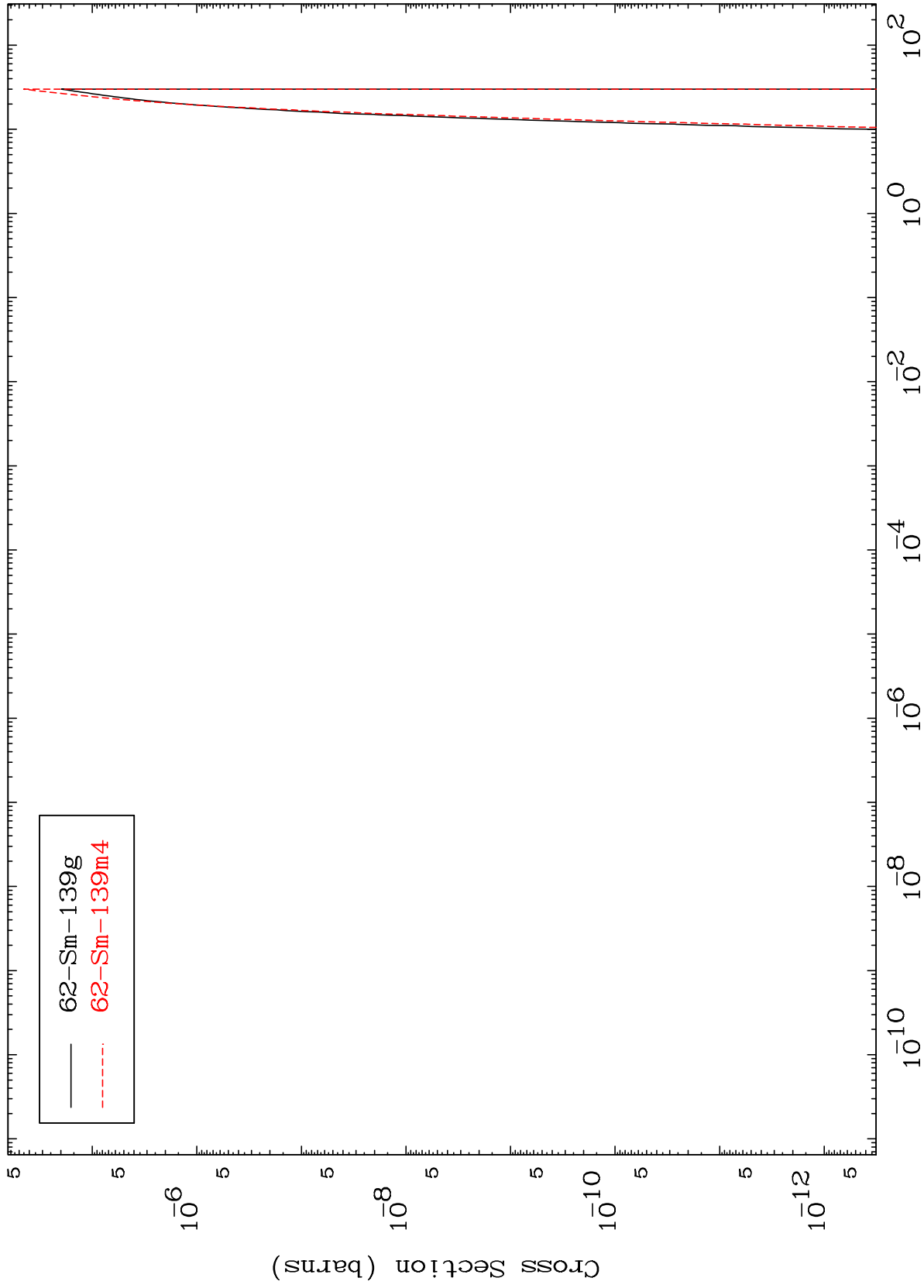
63-Eu-141 g
63-Eu-141 m1

MAT 6480

(n,d) α

65-Tb-144

Radionuclide Production Cross Section



98

Incident Energy (MeV)

65-Tb-144