

Program EVALPLOT
(Version 2018-1)

by

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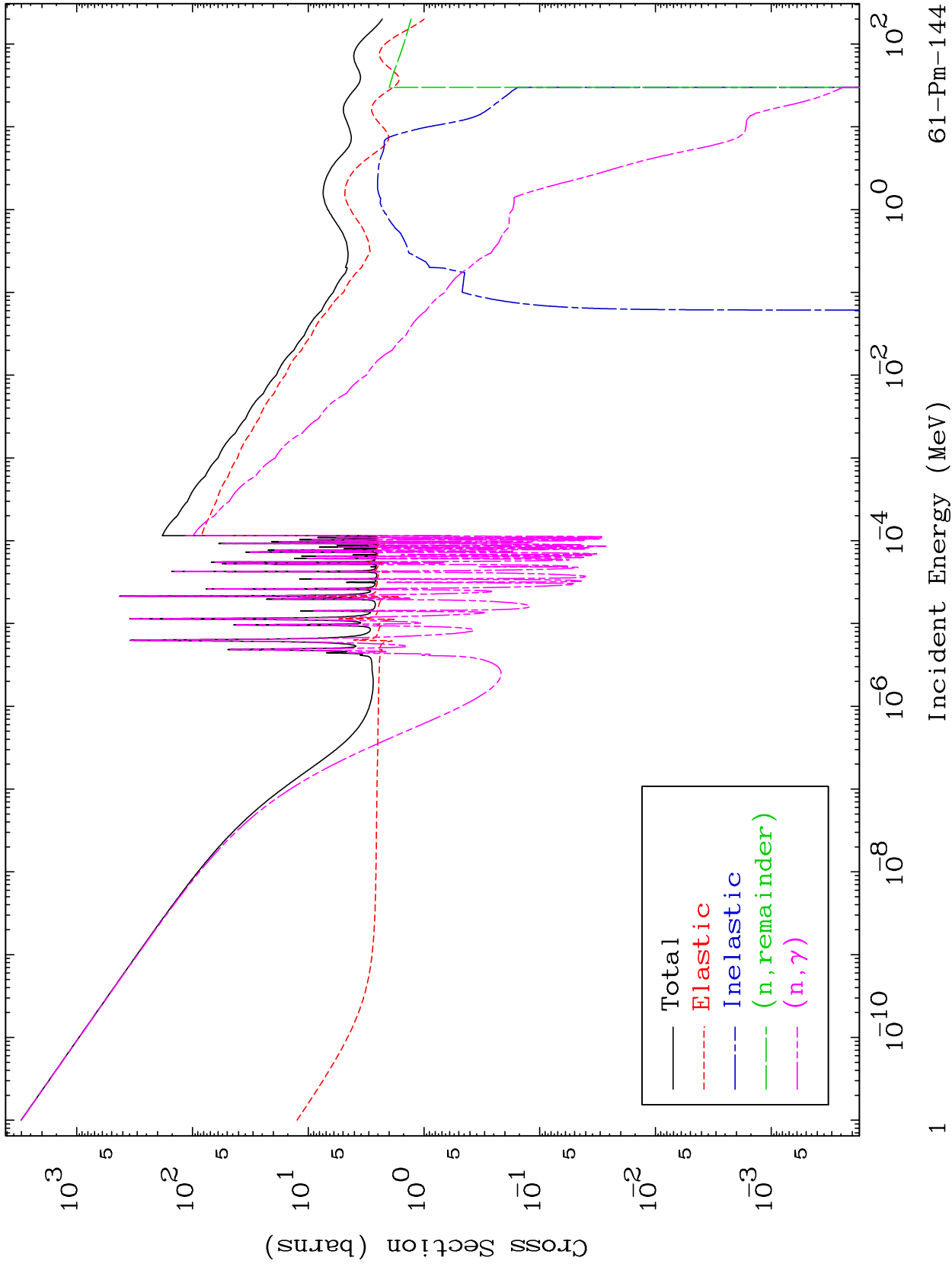
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6140

Major
293 Kelvin Cross Sections

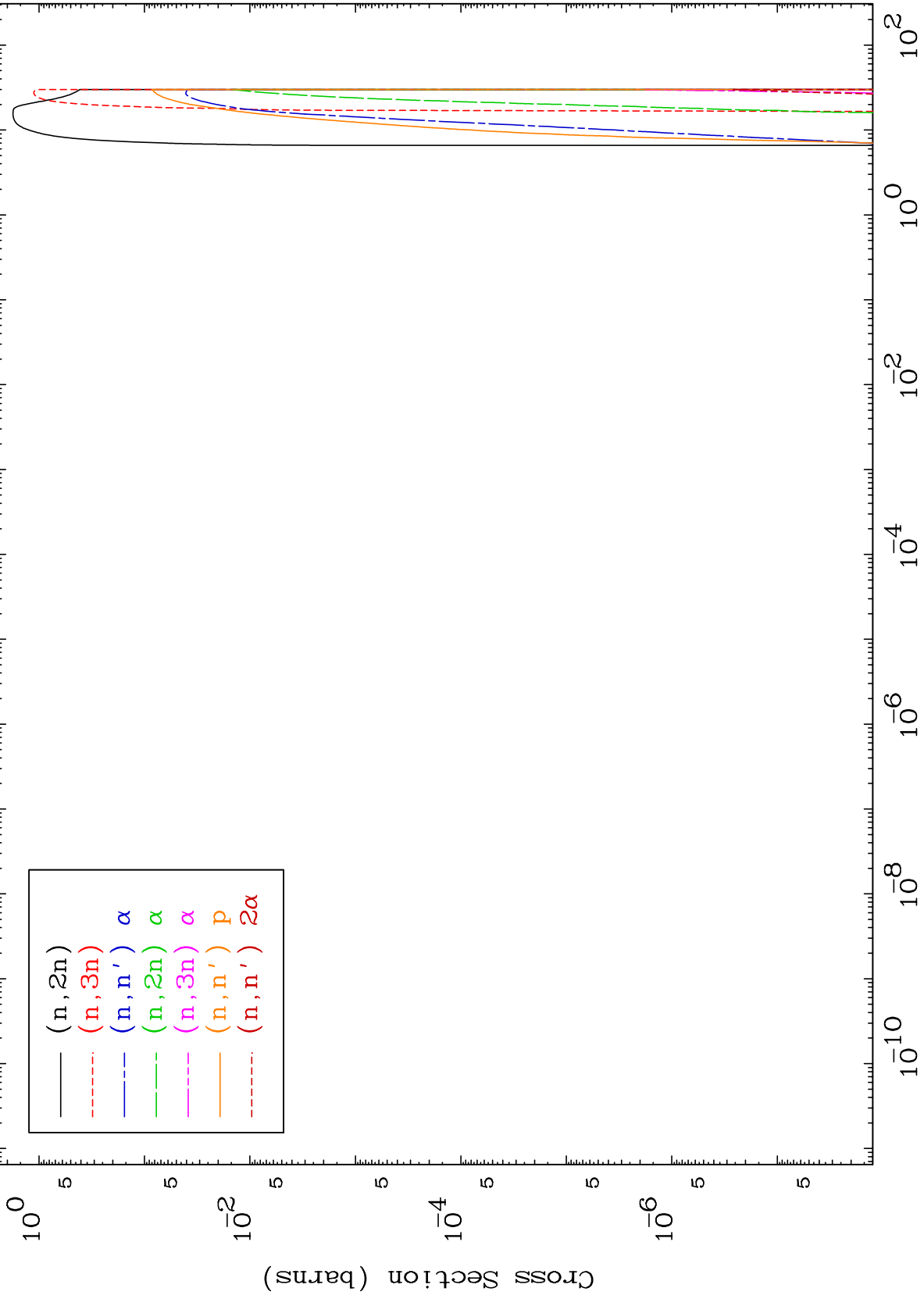
61-Pm-144



MAT 6140

Neutron Production
293 Kelvin Cross Sections

61-Pm-144



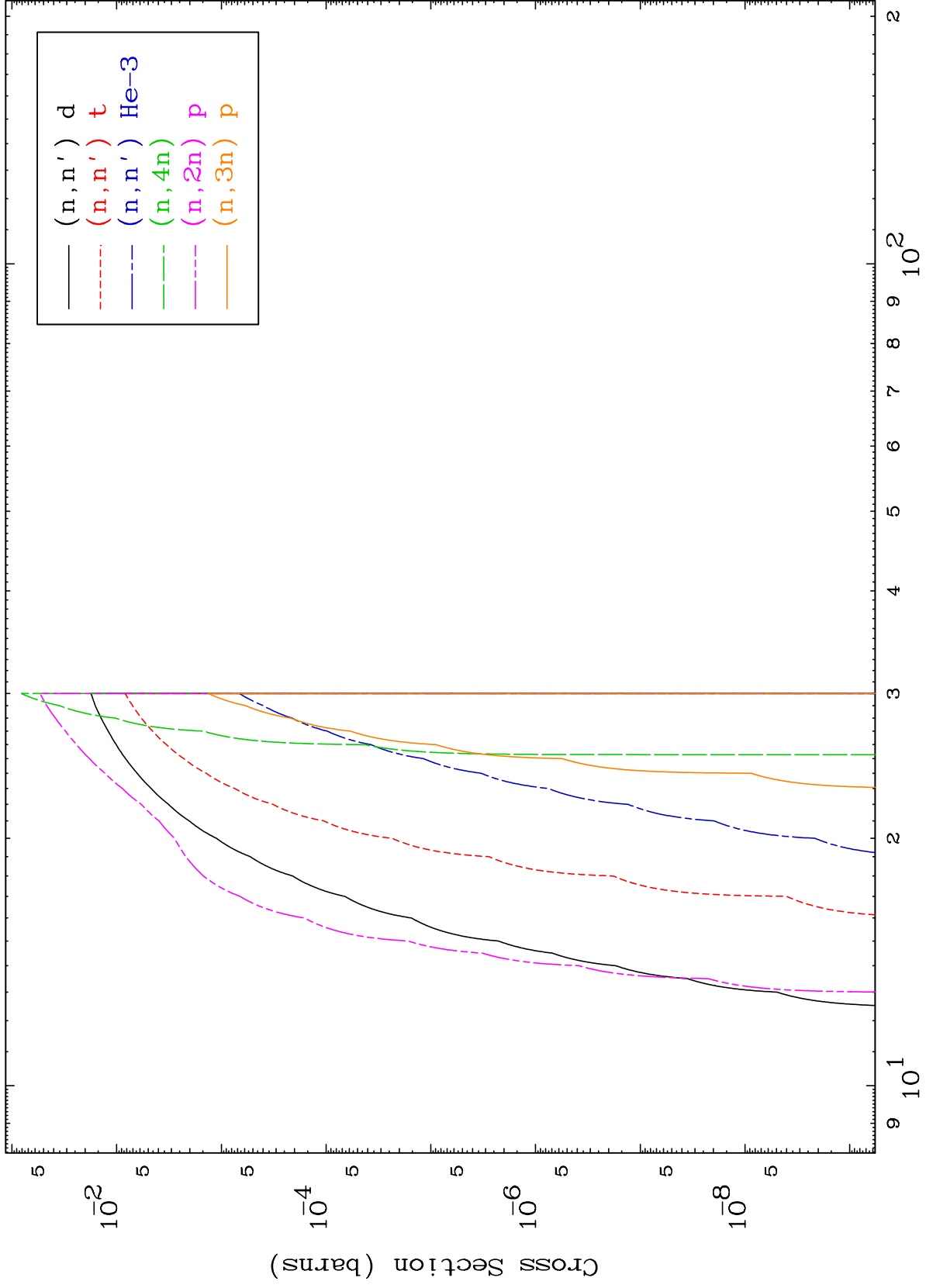
61-Pm-144

Incident Energy (MeV)

MAT 6140

Neutron Production
293 Kelvin Cross Sections

61-Pm-144



61-Pm-144

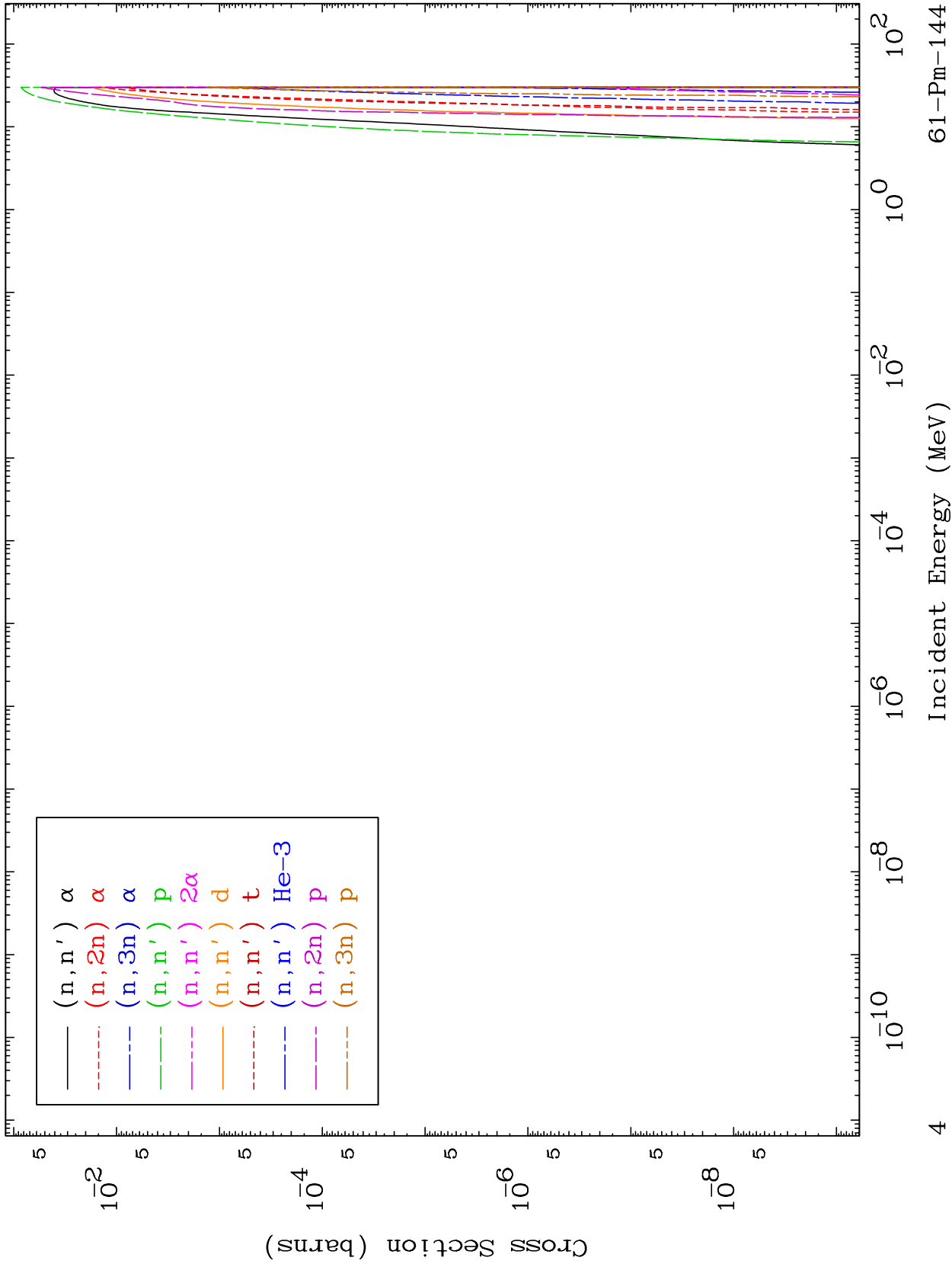
Incident Energy (MeV)

3

MAT 6140

Charged Particle
293 Kelvin Cross Sections

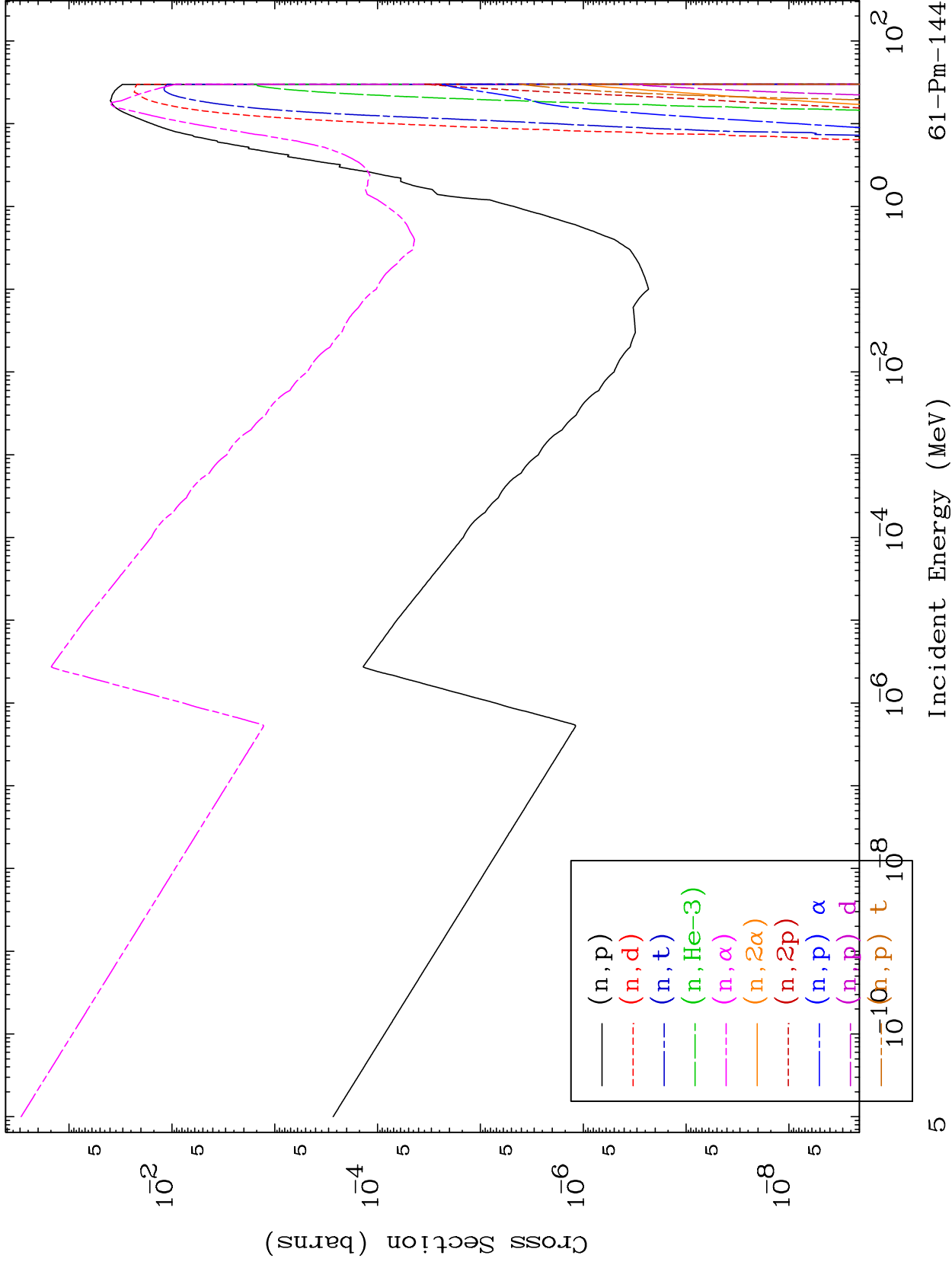
61-Pm-144



MAT 6140

Charged Particle
293 Kelvin Cross Sections

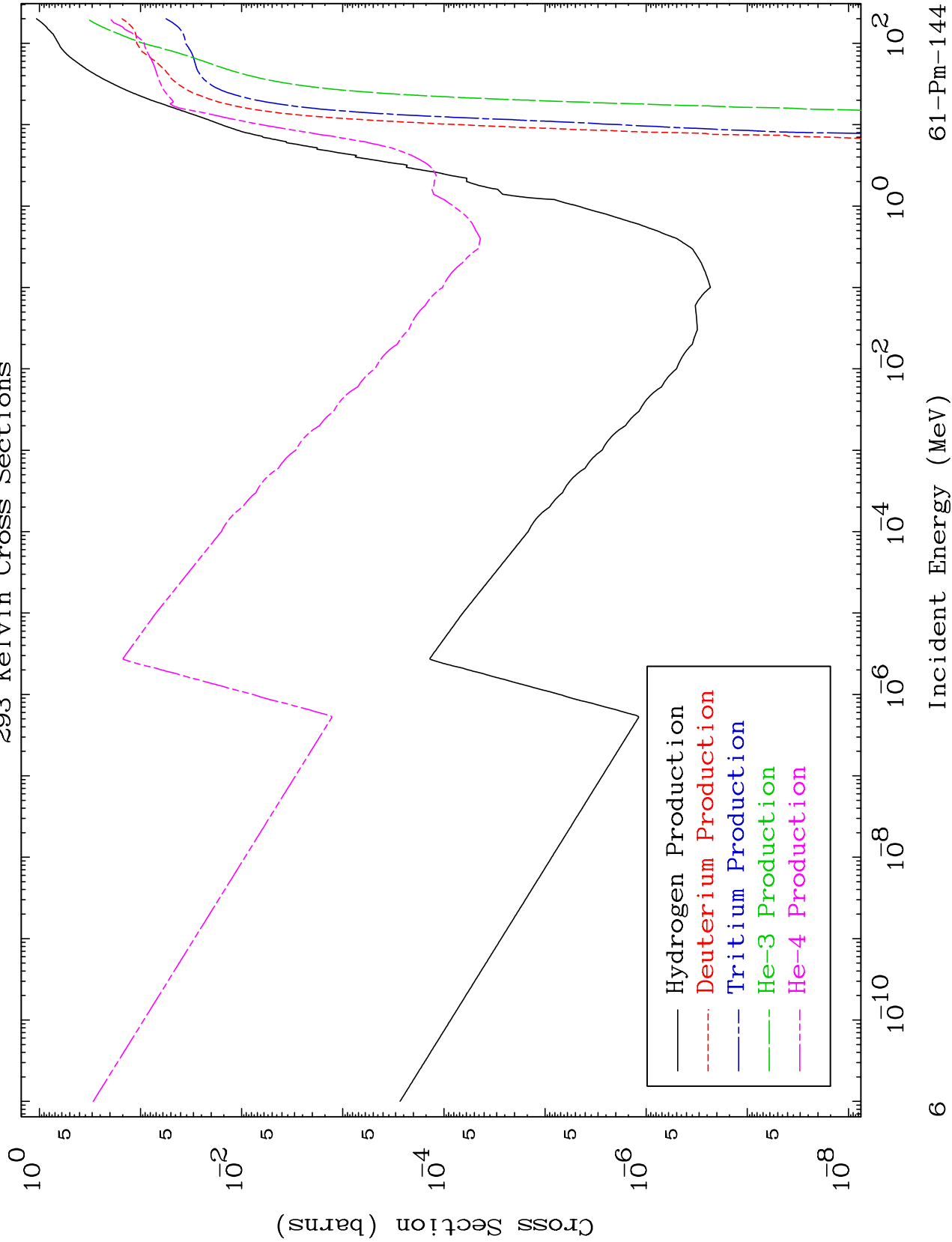
61-Pm-144



MAT 6140

Particle Production
293 Kelvin Cross Sections

61-Pm-144

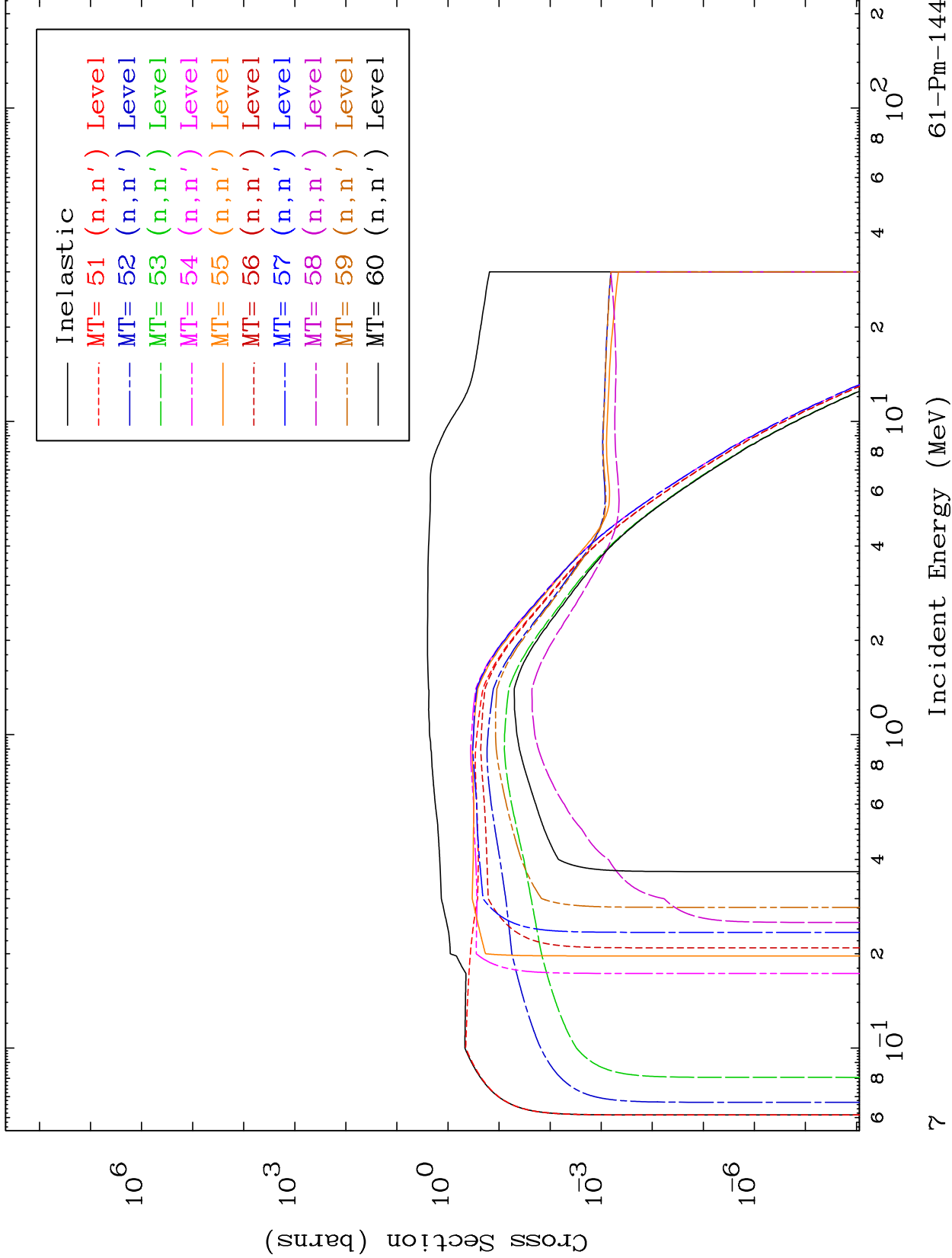


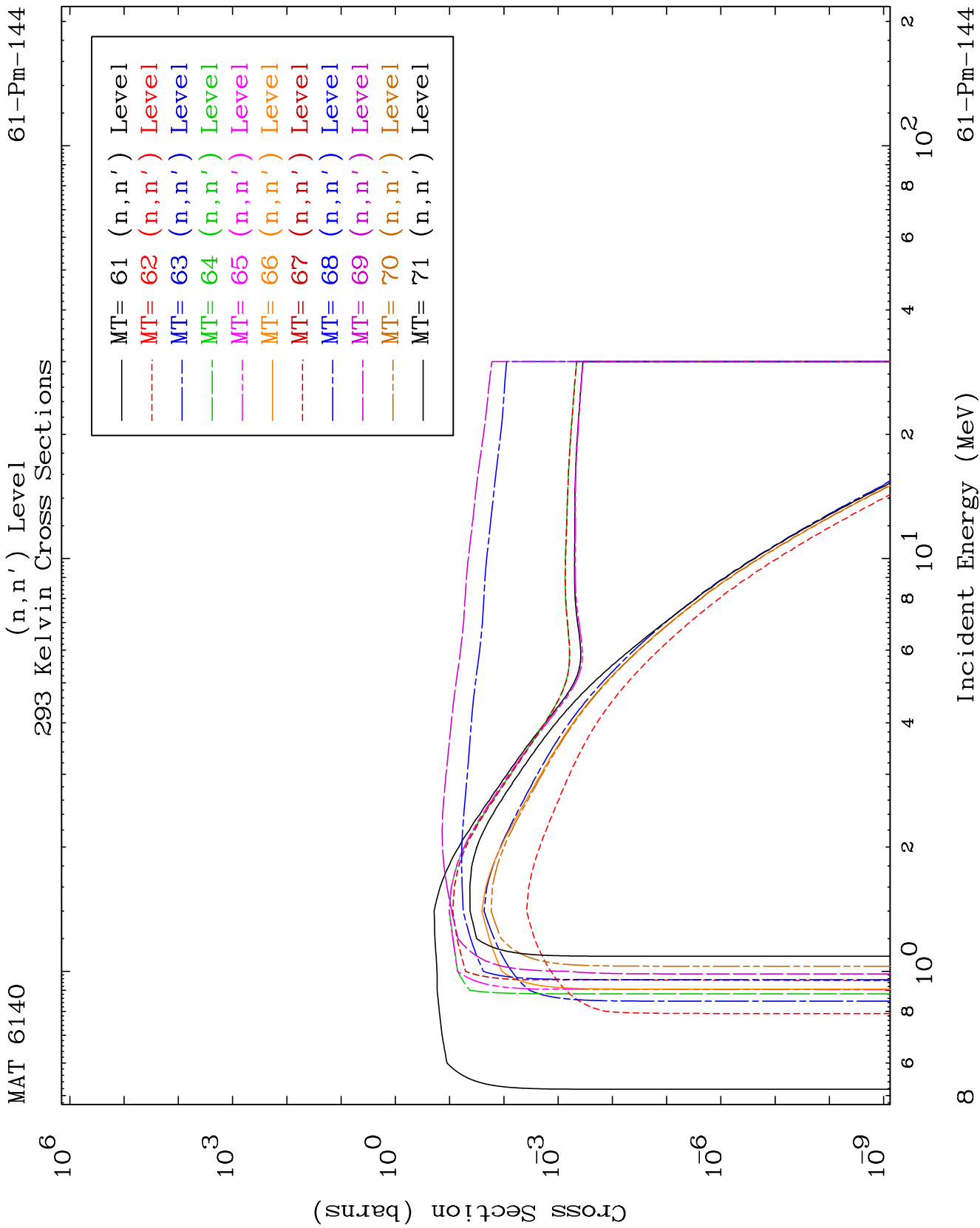
MAT 6140

(n,n') Level

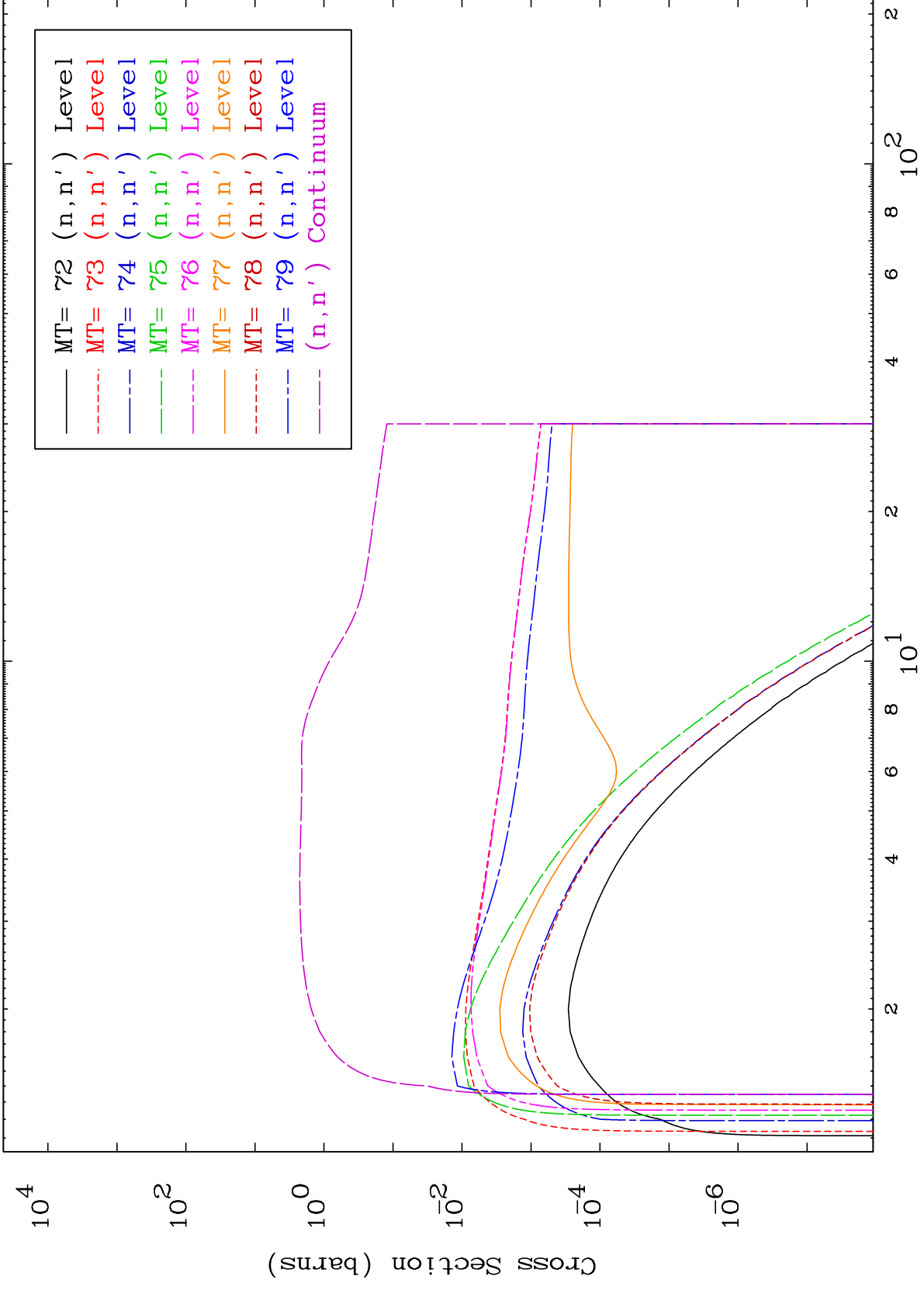
61-Pm-144

293 Kelvin Cross Sections





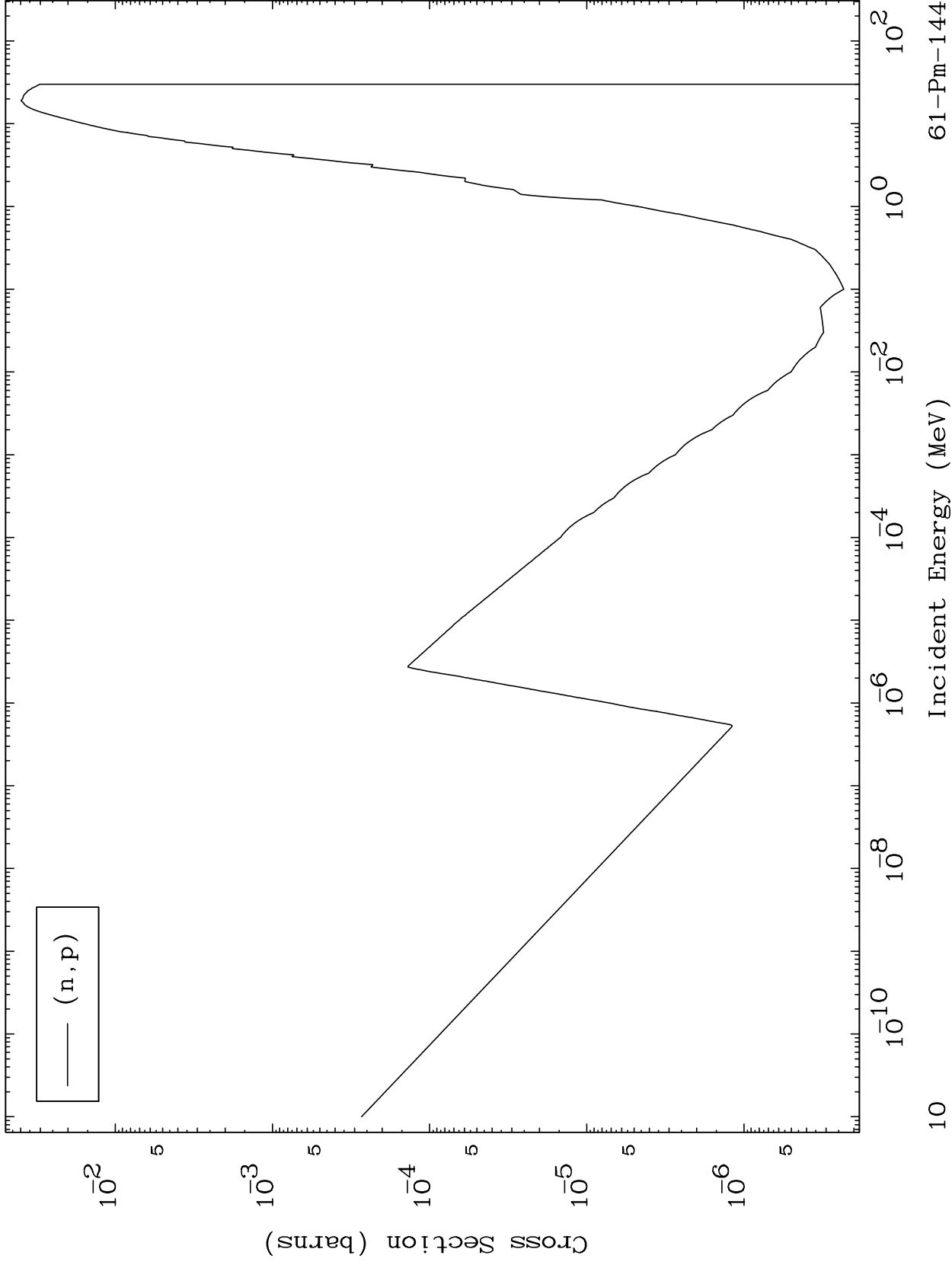
293 Kelvin Cross Sections



MAT 6140

(n,p) Levels
293 Kelvin Cross Sections

61-Pm-144



10

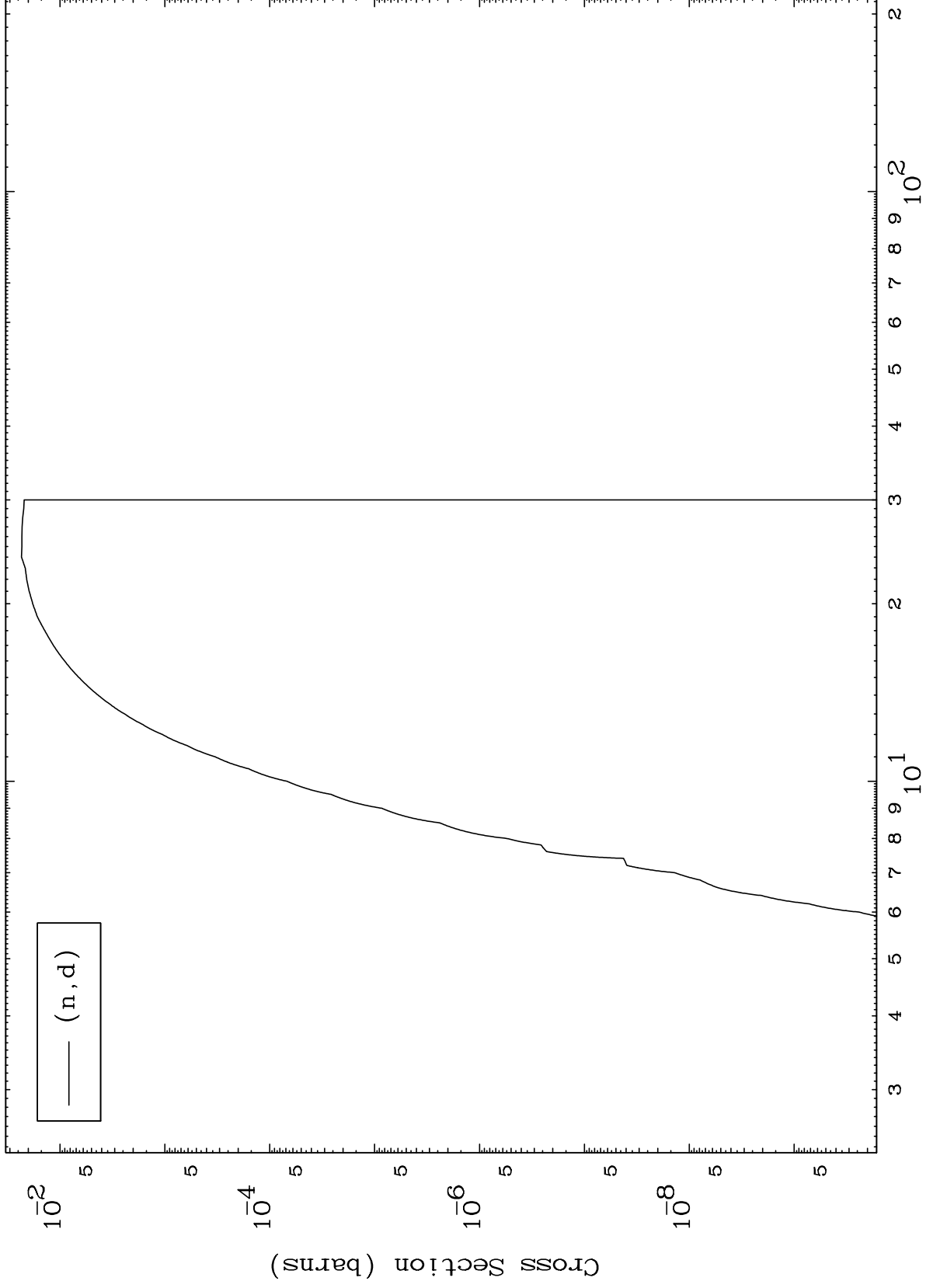
Incident Energy (MeV)

61-Pm-144

MAT 6140

(n,d) Levels
293 Kelvin Cross Sections

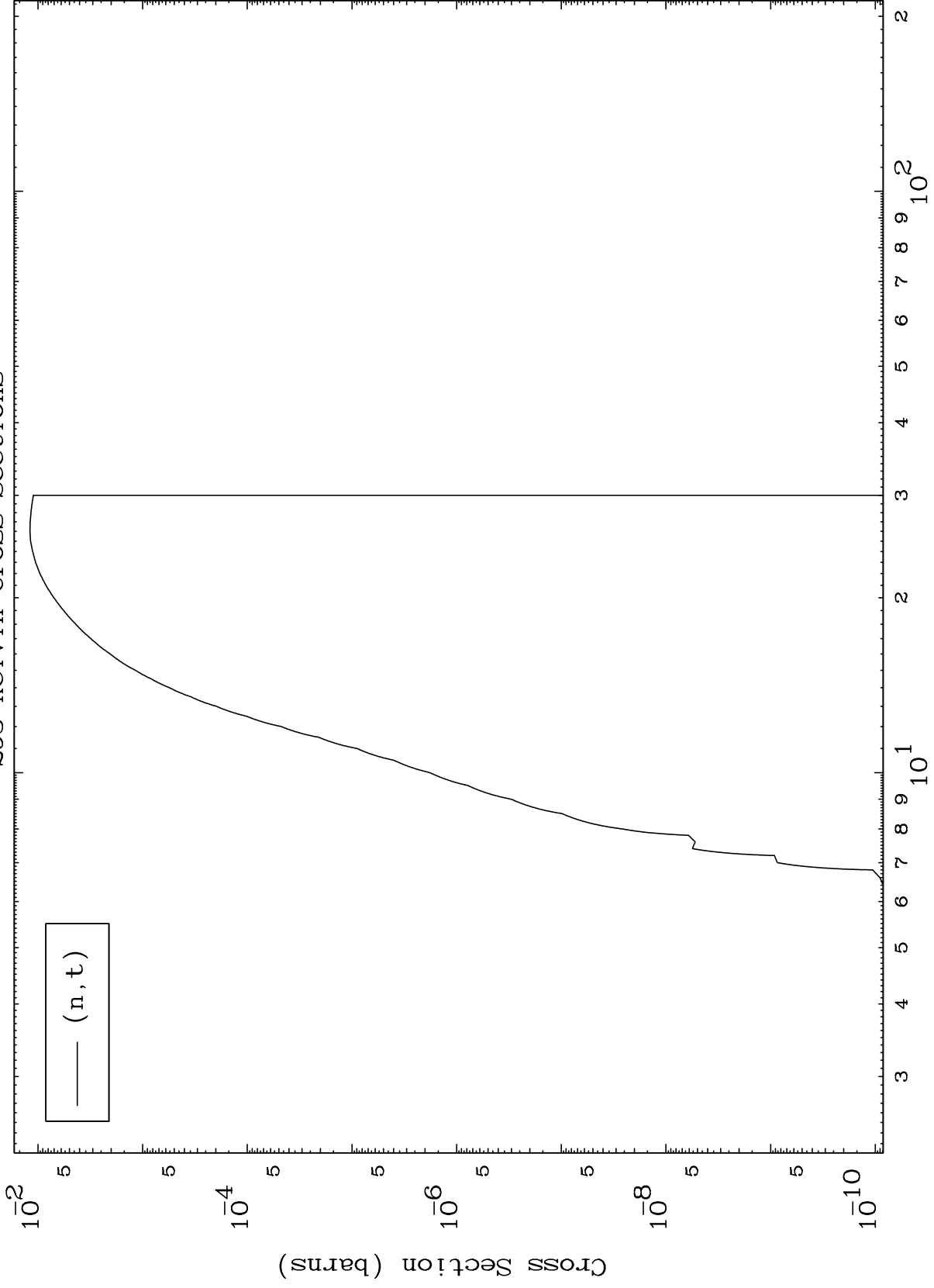
61-Pm-144



MAT 6140

(n,t) Levels
293 Kelvin Cross Sections

61-Pm-144



12

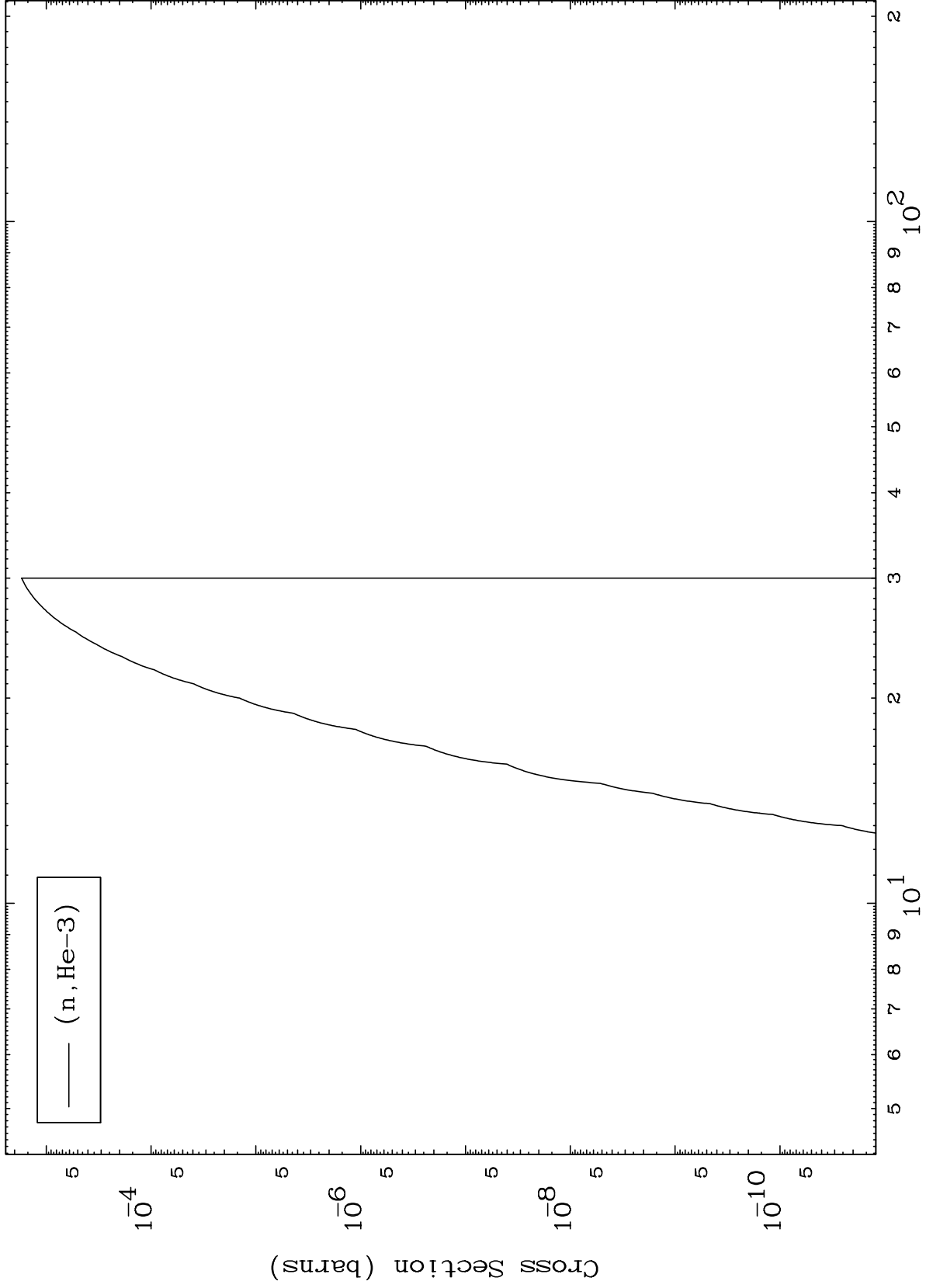
Incident Energy (MeV)

61-Pm-144

MAT 6140

(n,He3) Levels
293 Kelvin Cross Sections

61-Pm-144



13

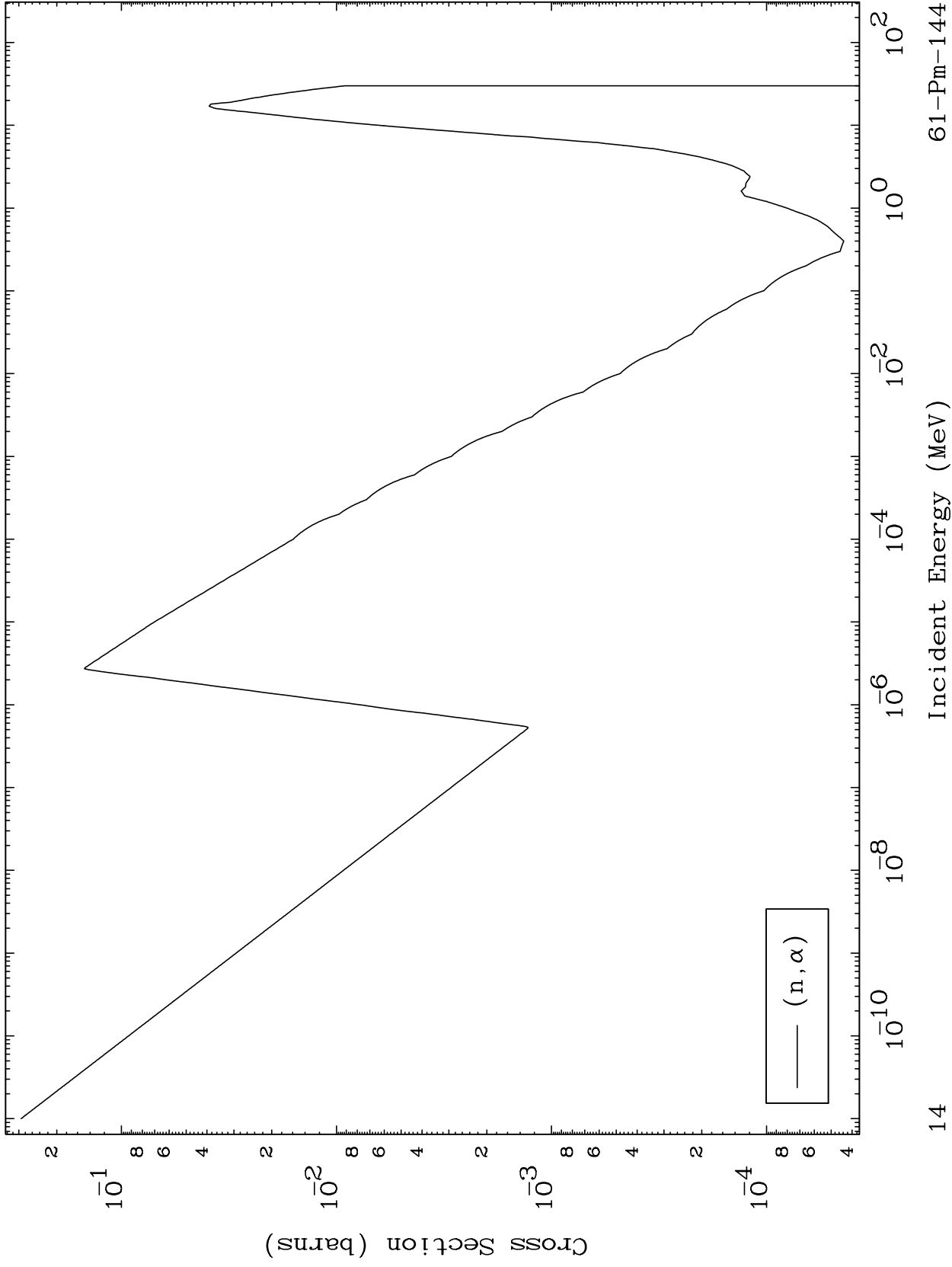
Incident Energy (MeV)

61-Pm-144

MAT 6140

(n, α) Levels
293 Kelvin Cross Sections

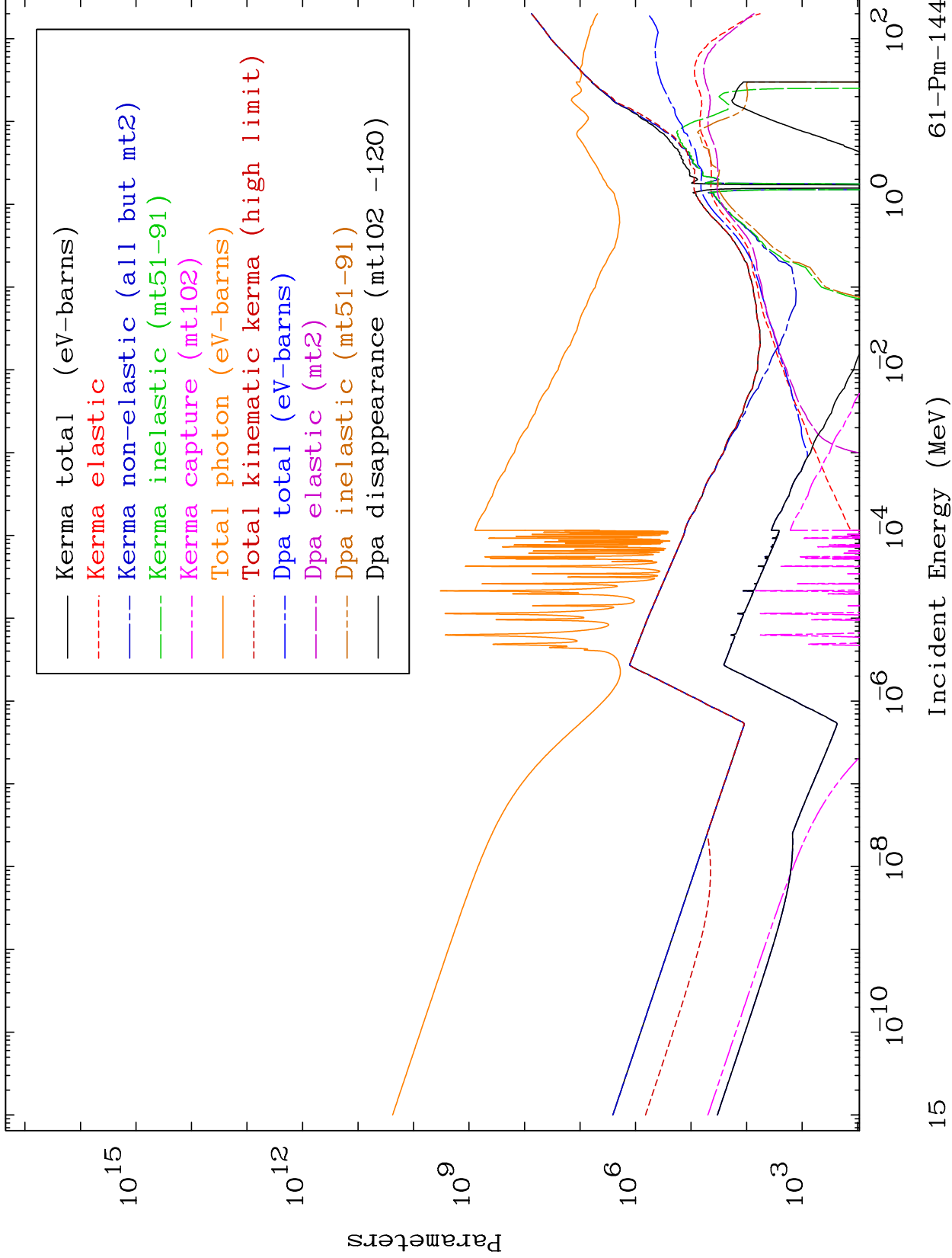
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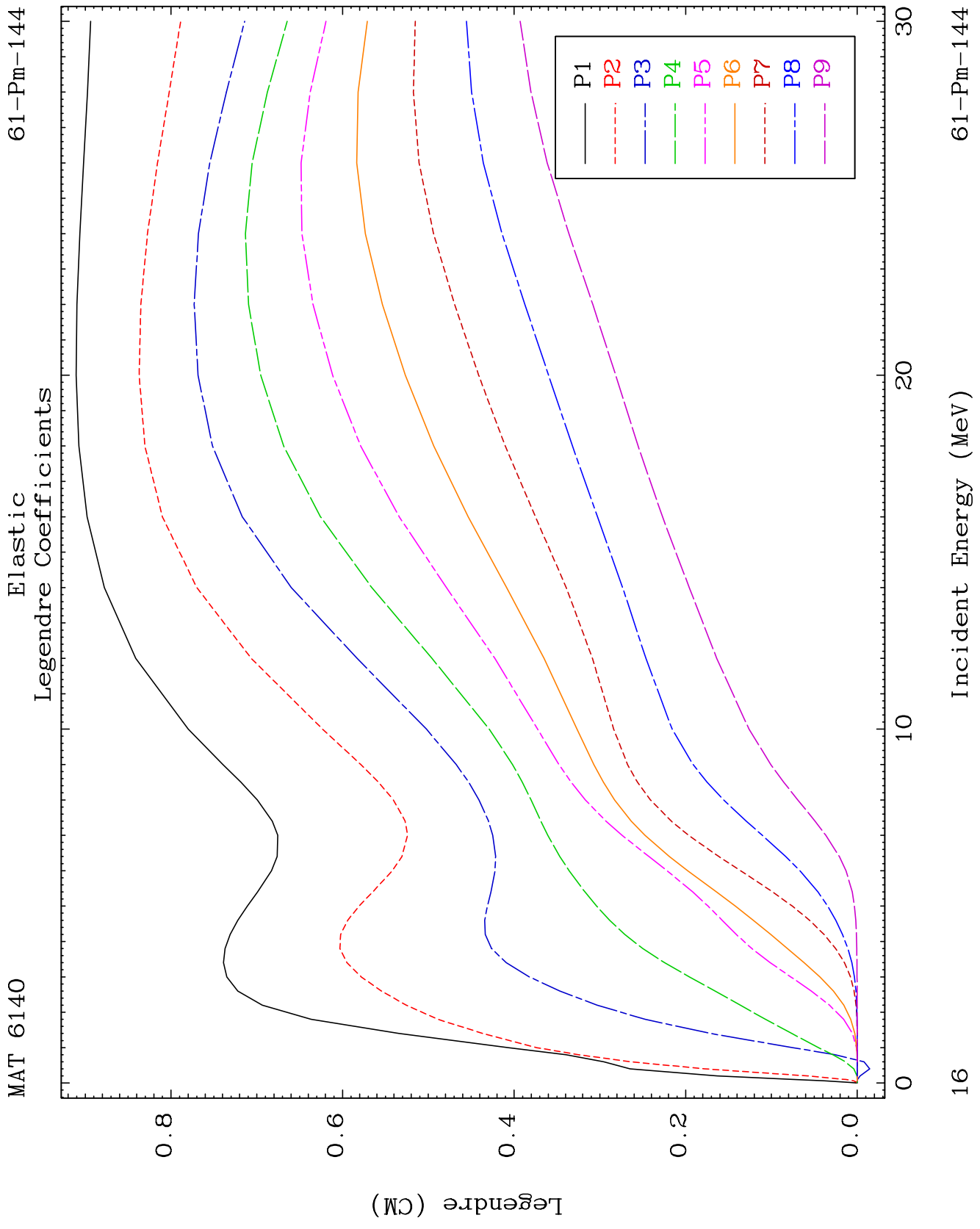


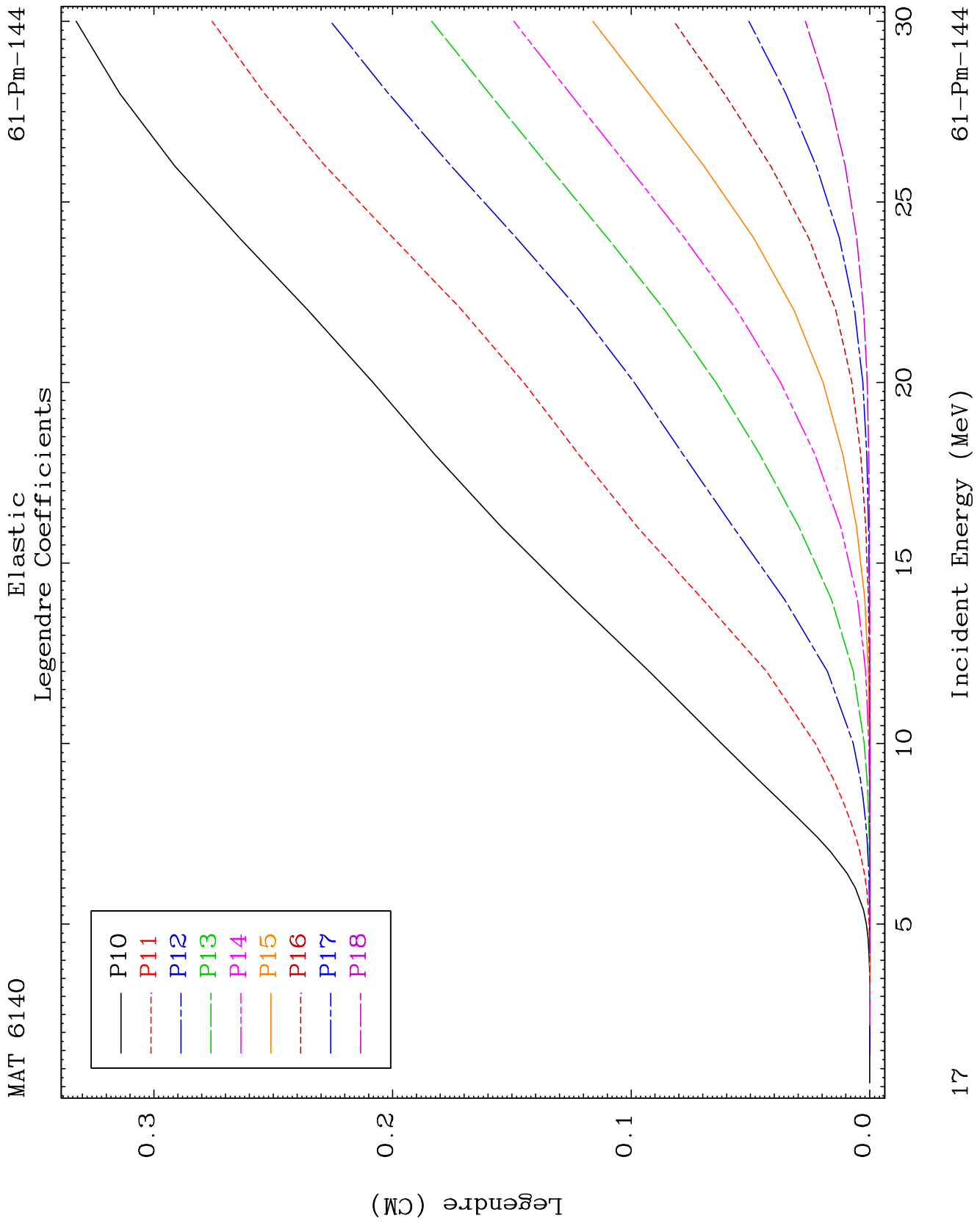
14

Incident Energy (MeV)

61-Pm-144



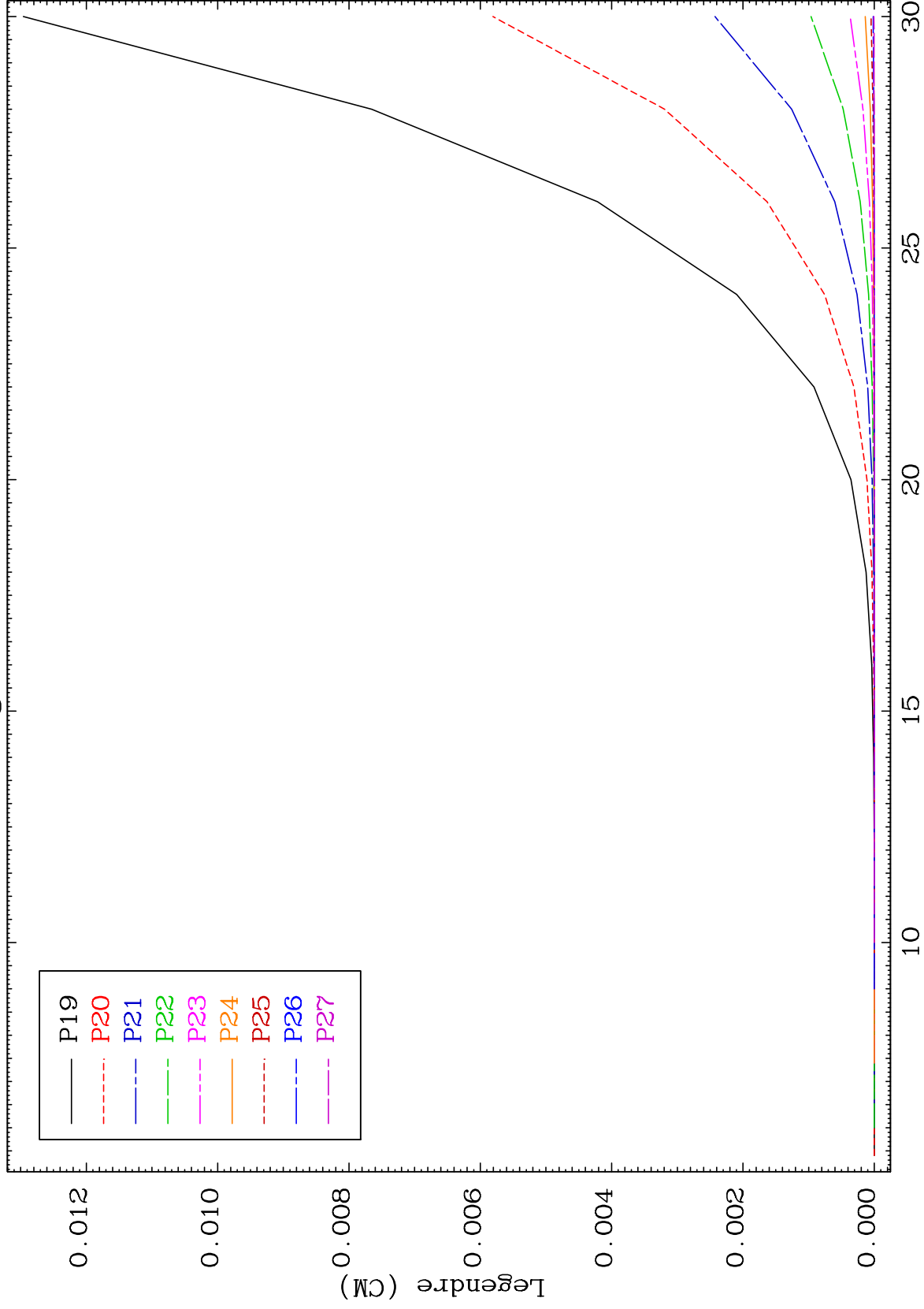




MAT 6140

Elastic Legendre Coefficients

61-Pm-144



18

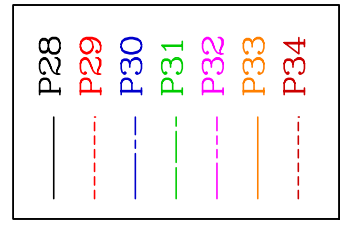
Incident Energy (MeV)

61-Pm-144

MAT 6140

Elastic
Legendre Coefficients

61-Pm-144



$\times 10^{-6}$
1.5

1.0

Legendre (CM)

0.5

0.0

15

20

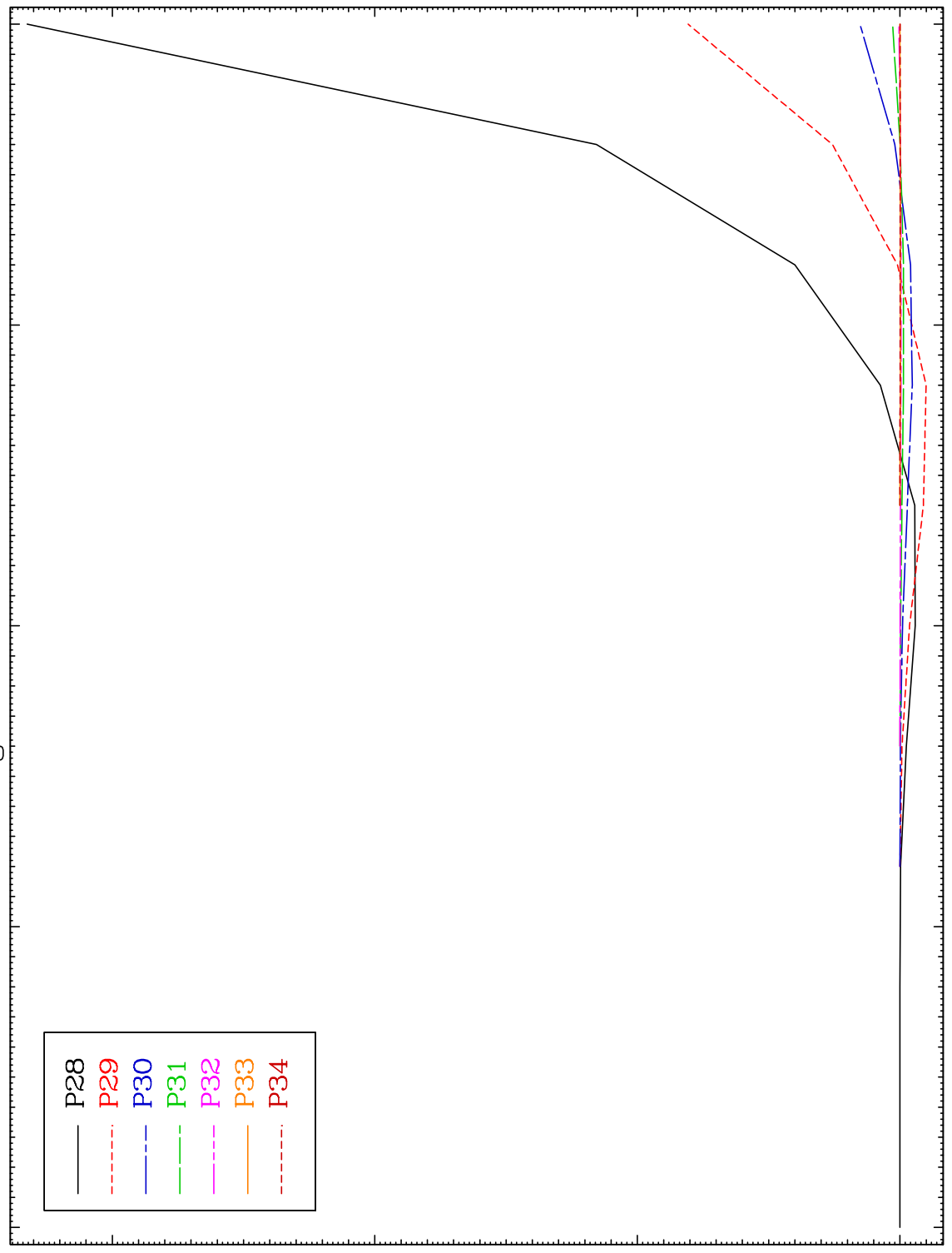
25

30

19

Incident Energy (MeV)

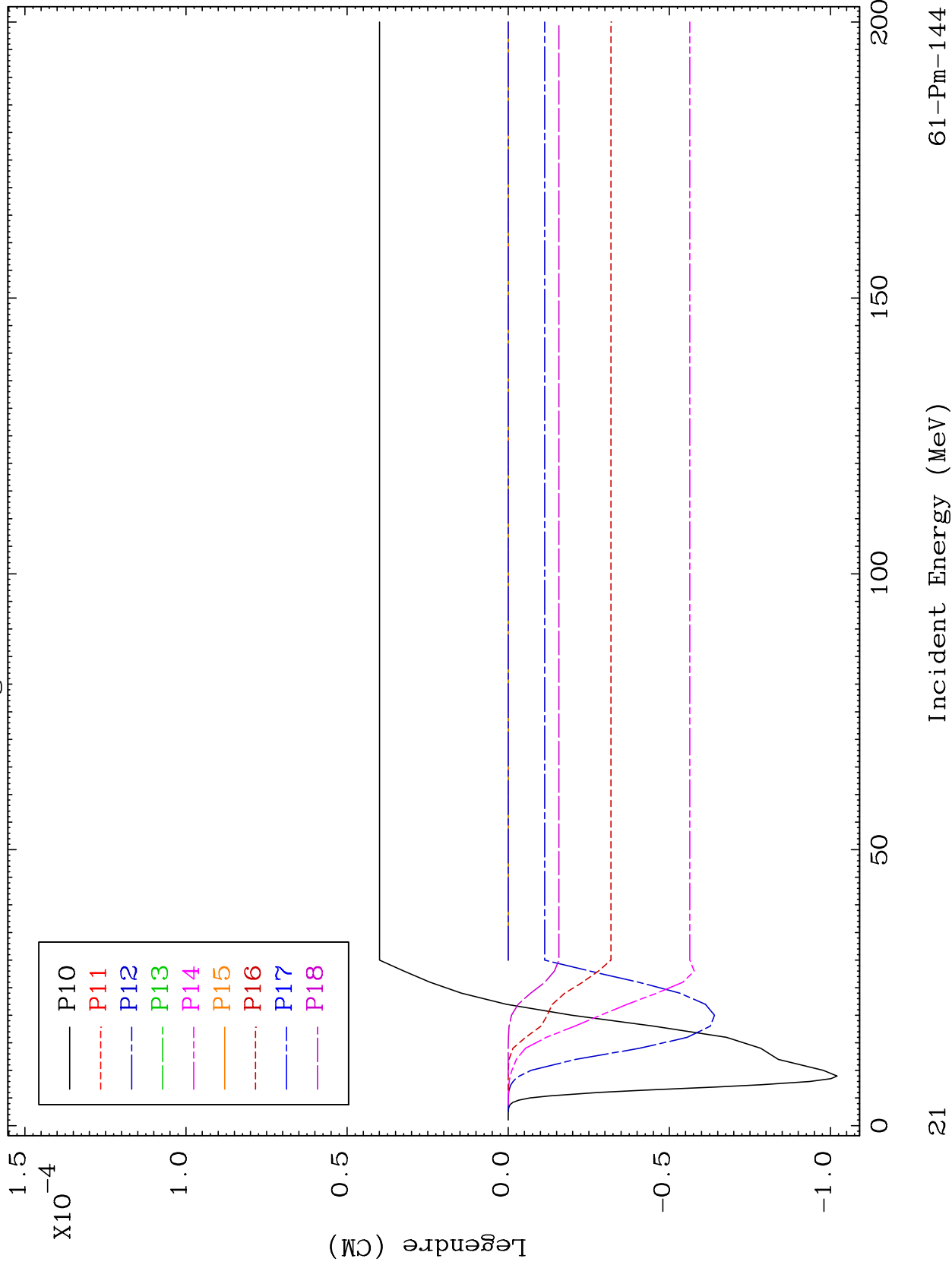
61-Pm-144



MAT 6140

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

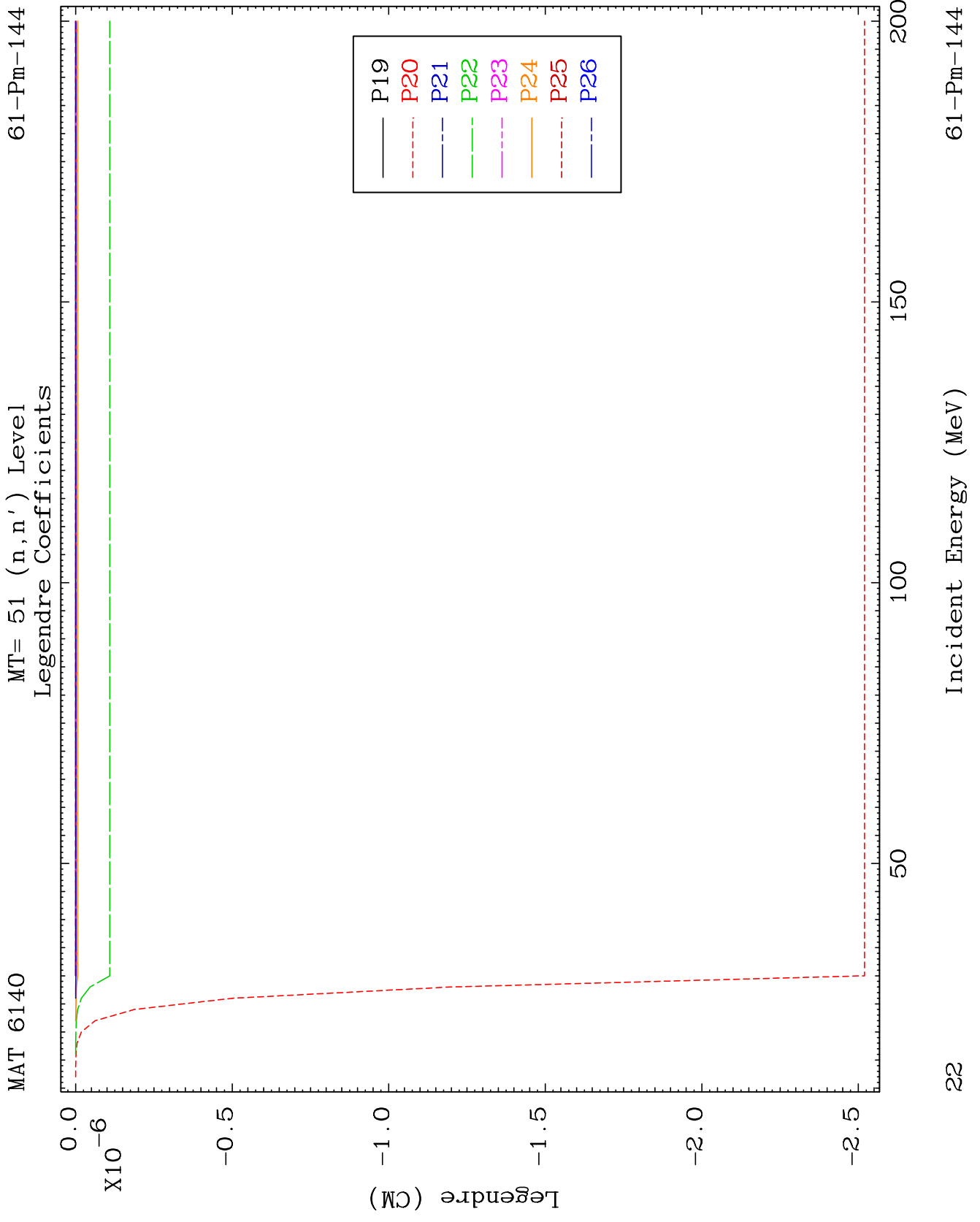
61-Pm-144



21

Incident Energy (MeV)

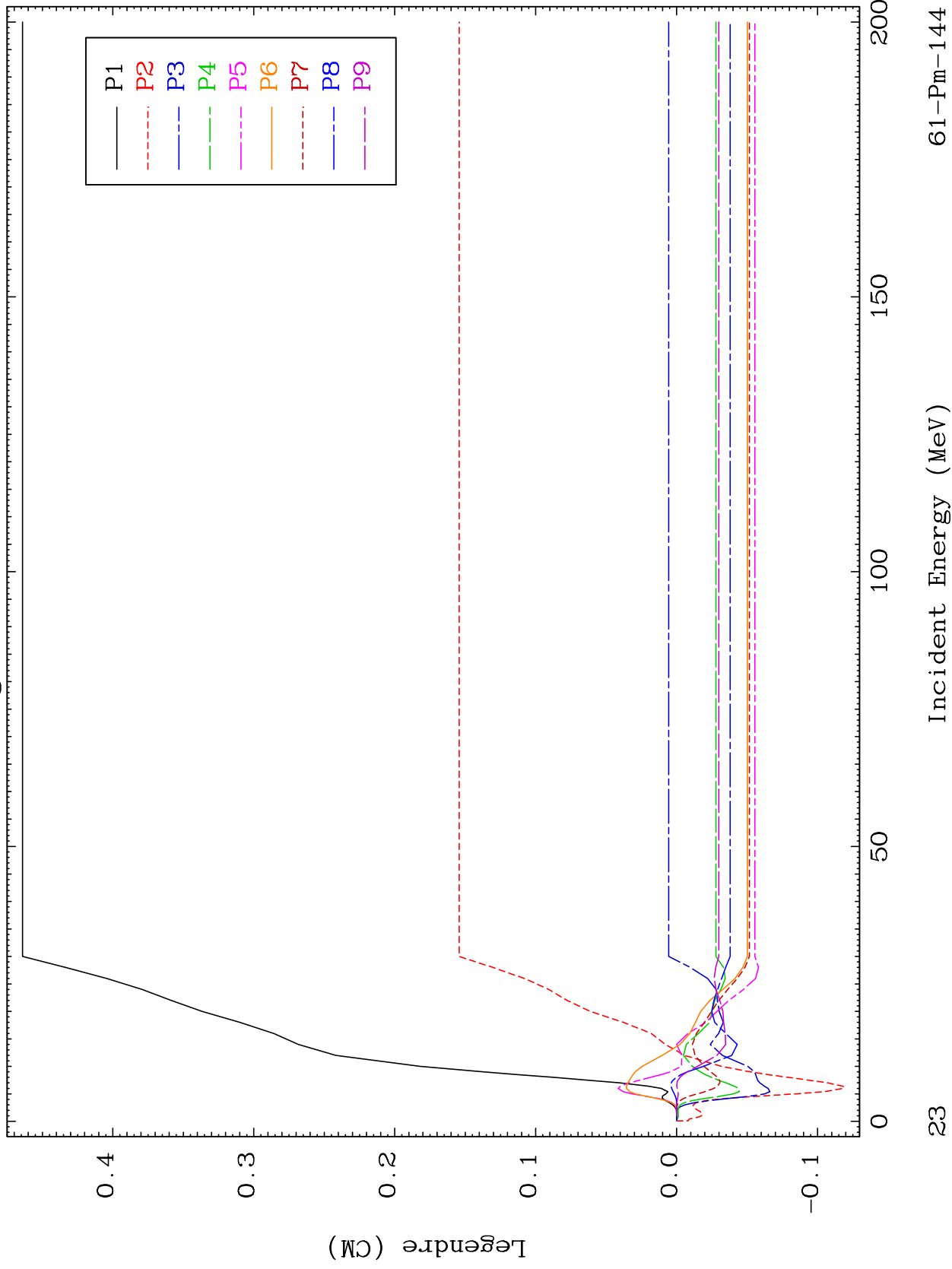
61-Pm-144



MAT 6140

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

61-Pm-144



61-Pm-144

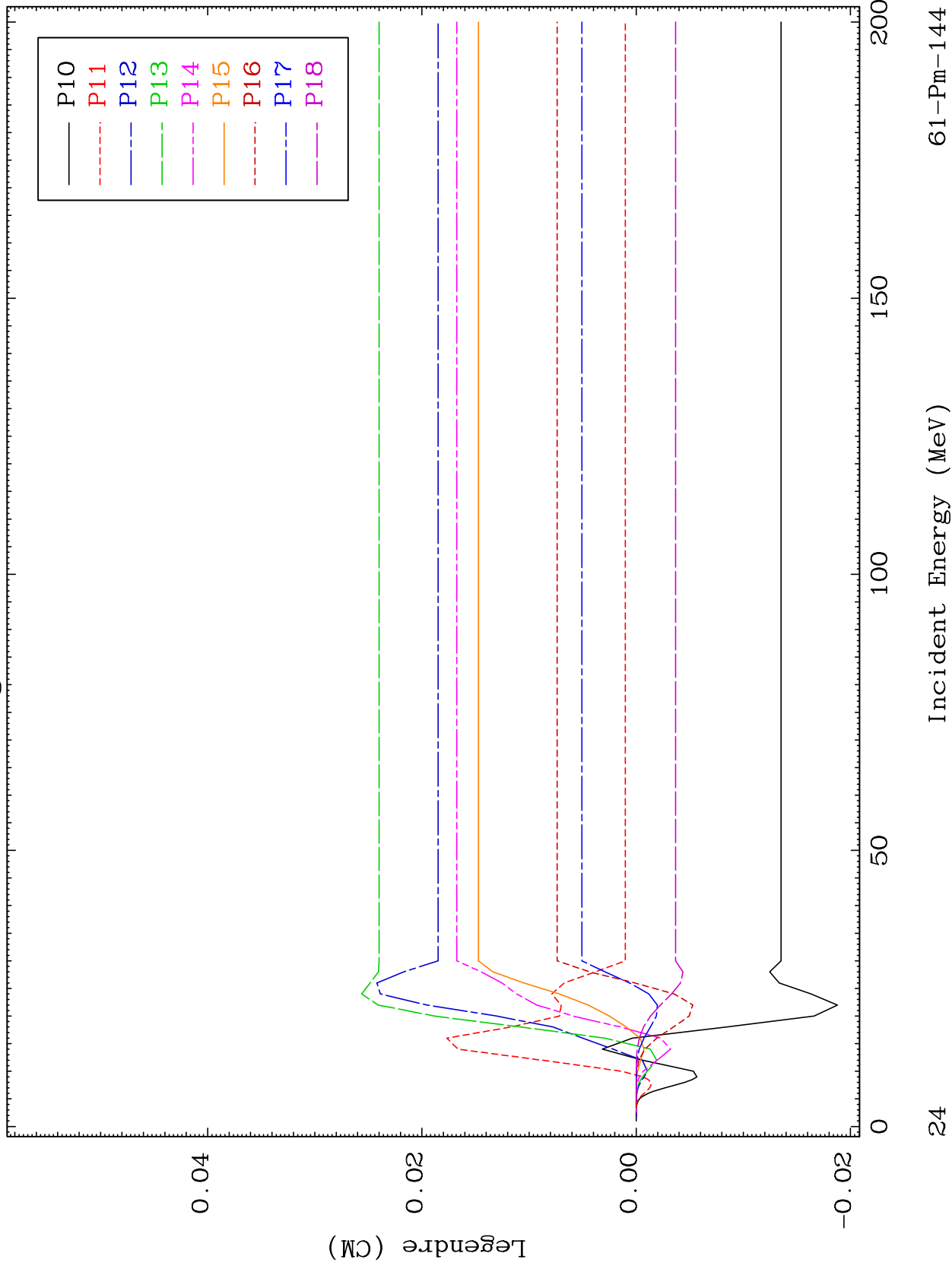
Incident Energy (MeV)

23

MAT 6140

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

61-Pm-144



61-Pm-144

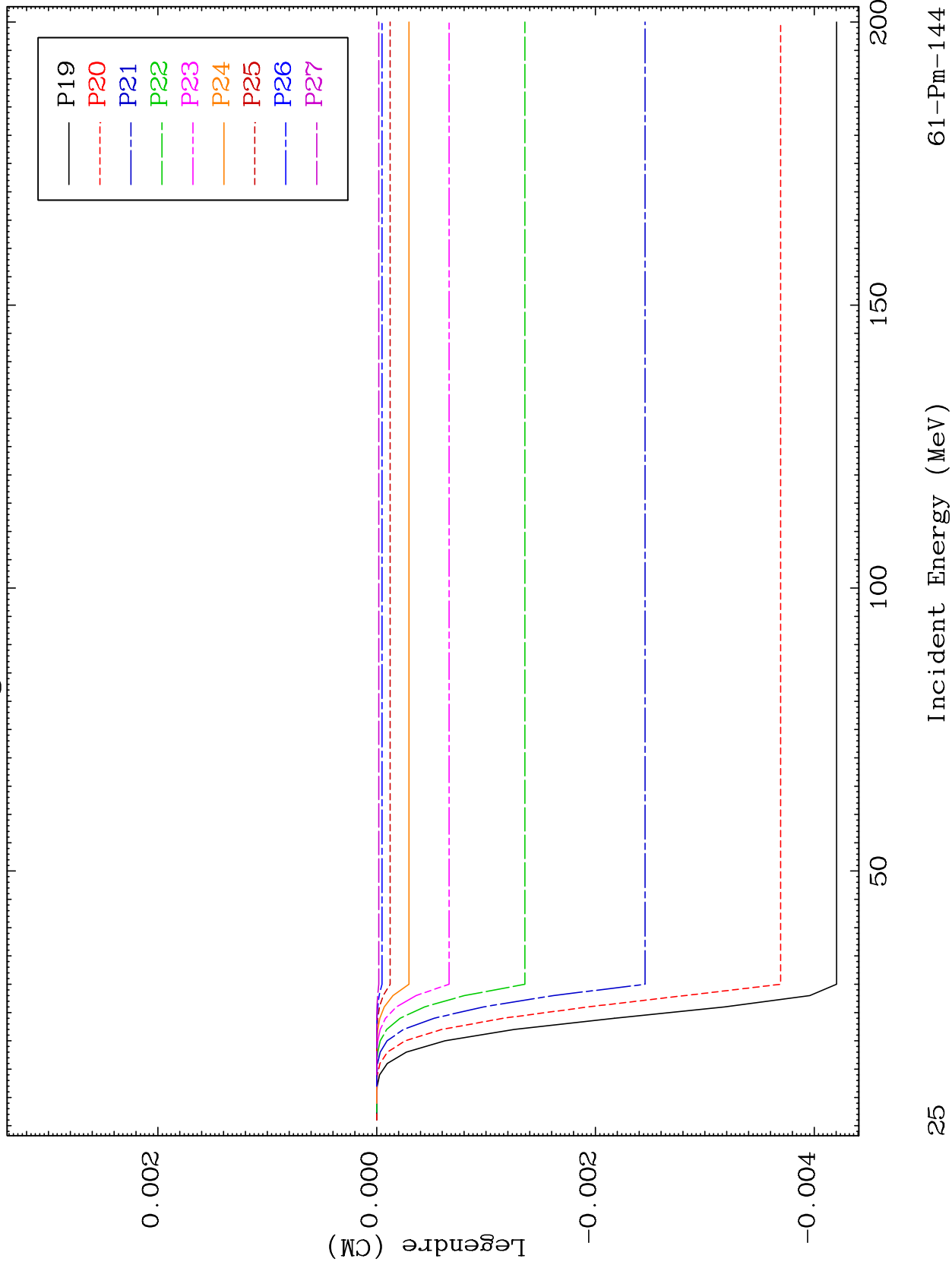
Incident Energy (MeV)

24

MAT 6140

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

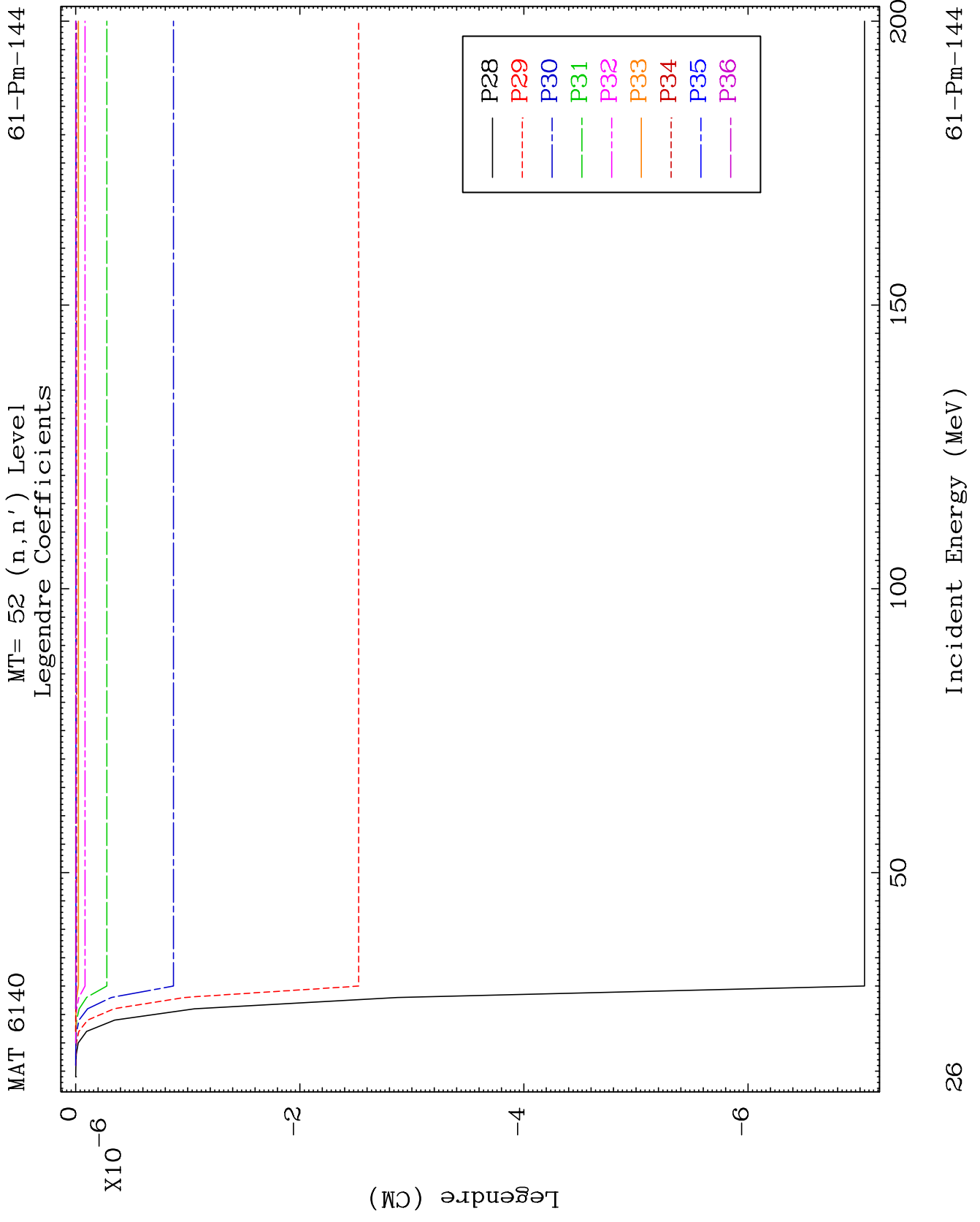
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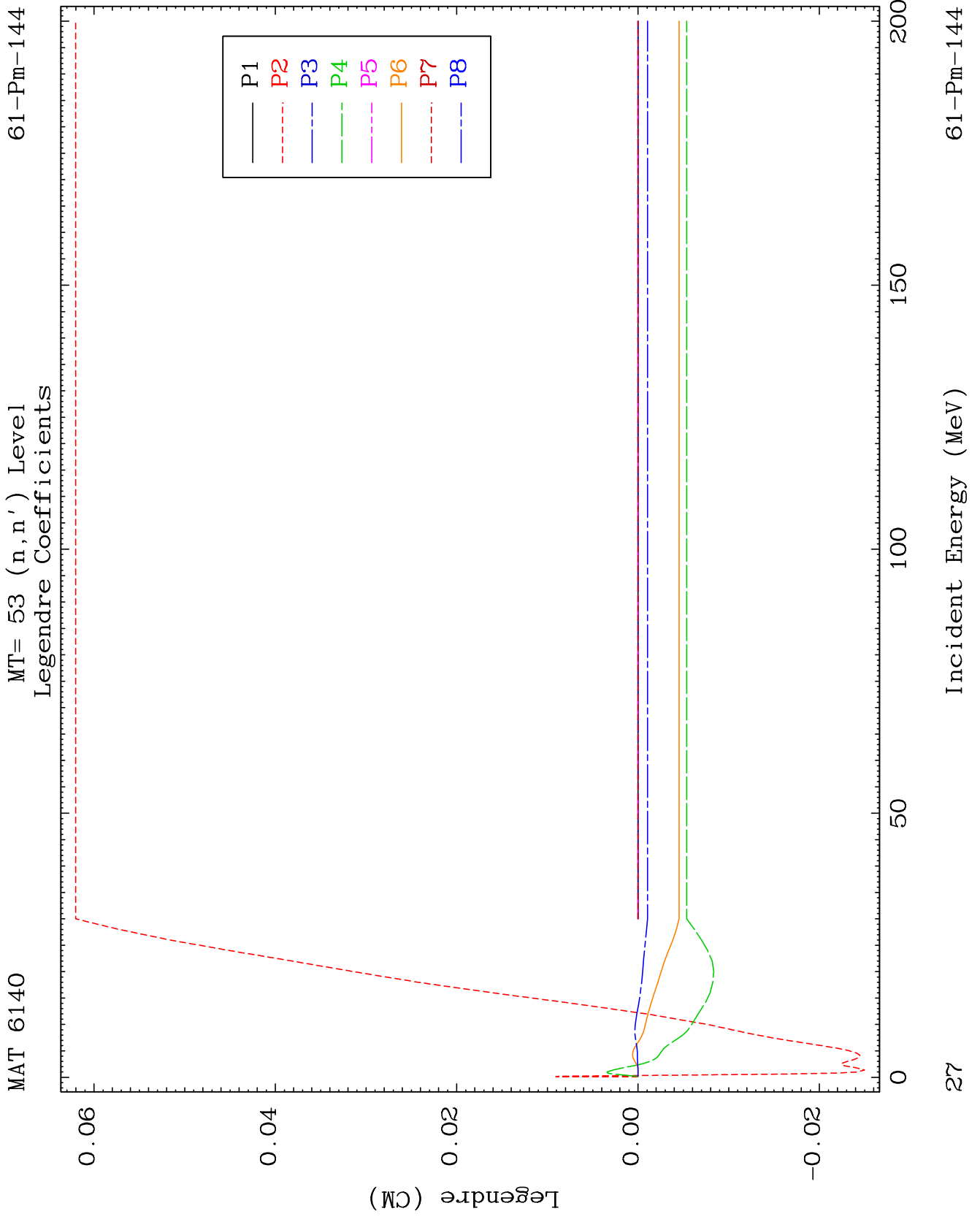


61-Pm-144

Incident Energy (MeV)

25

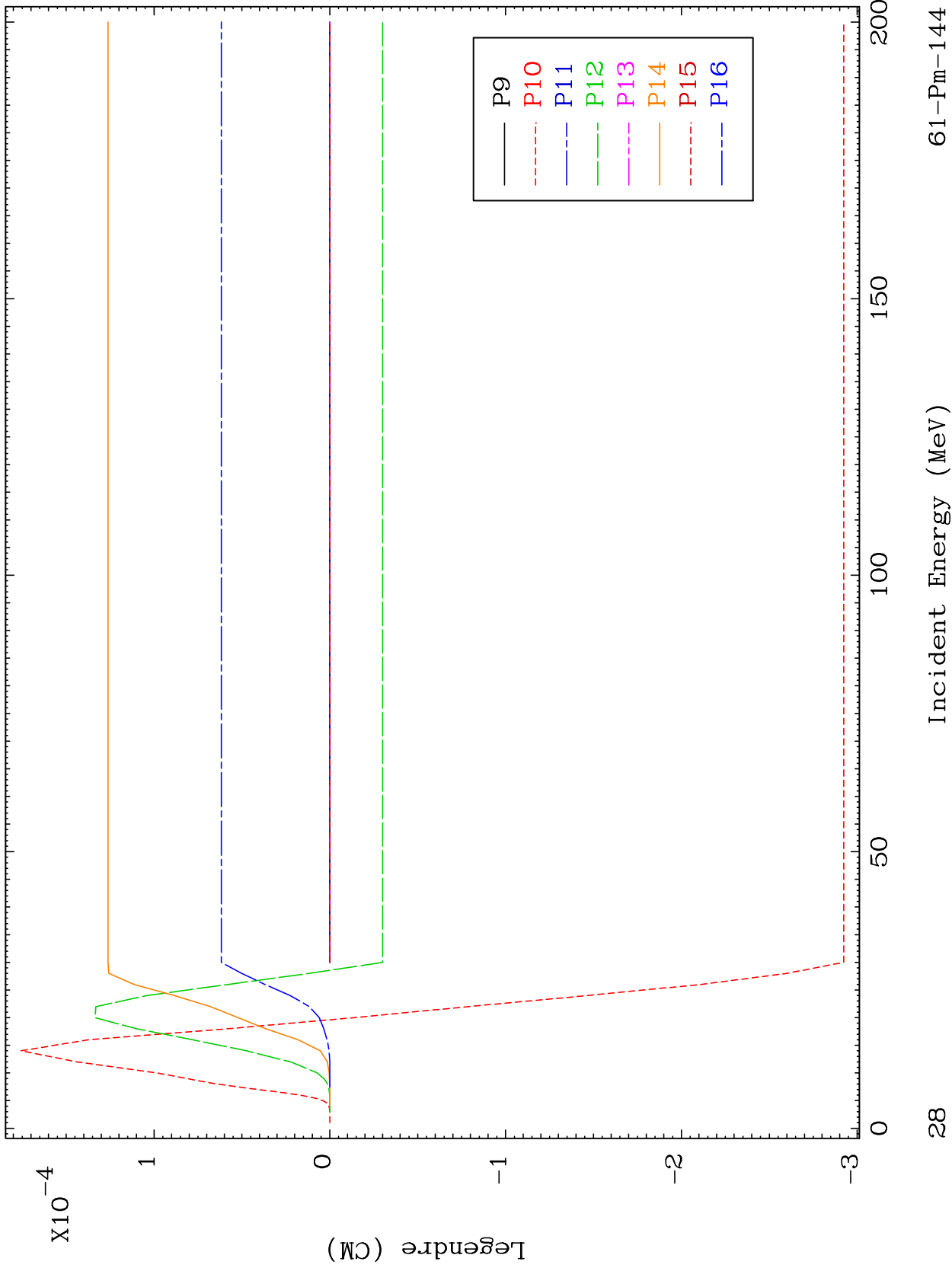




MAT 6140

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

61-Pm-144



61-Pm-144

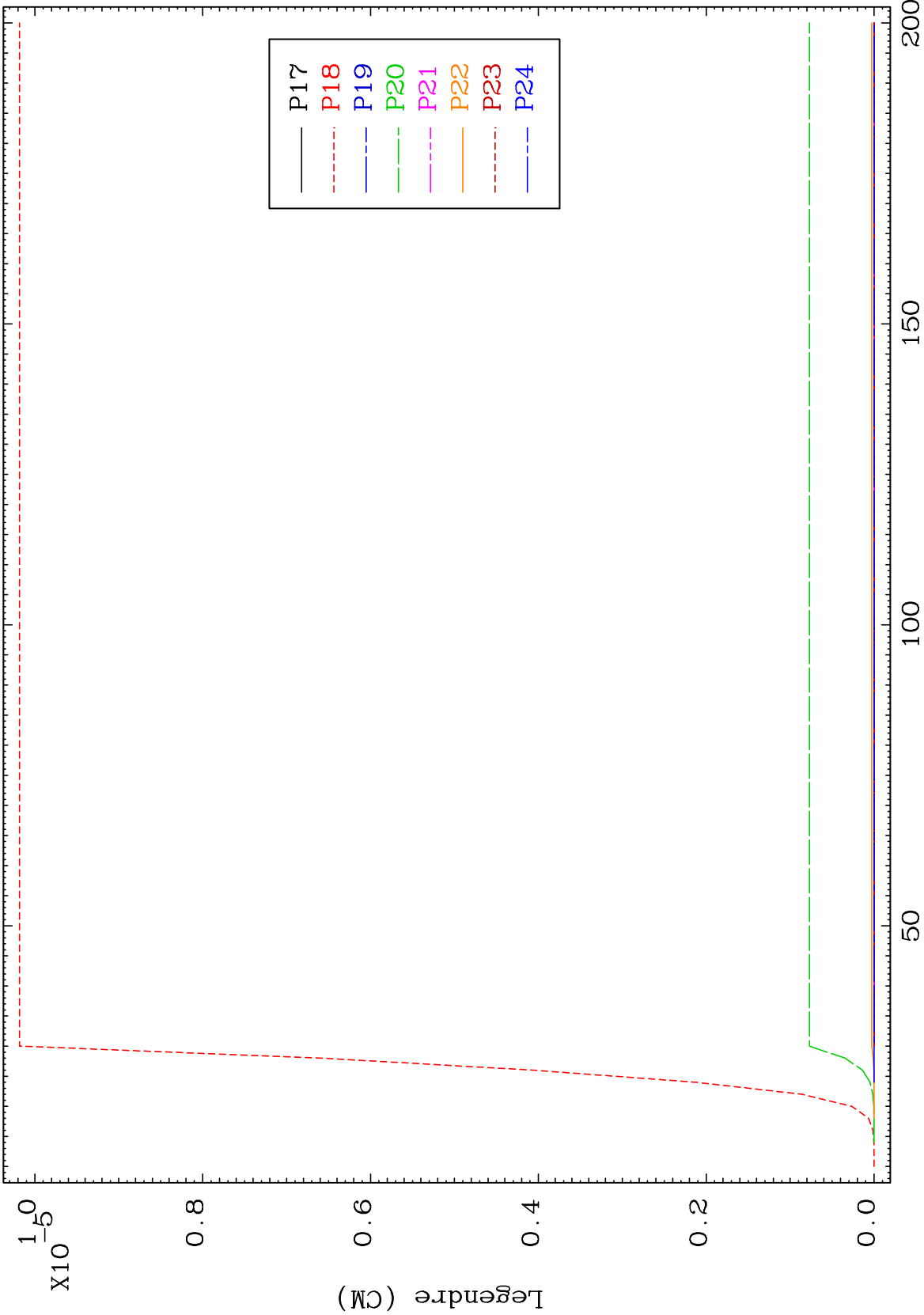
Incident Energy (MeV)

28

MAT 6140

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

61-Pm-144



61-Pm-144

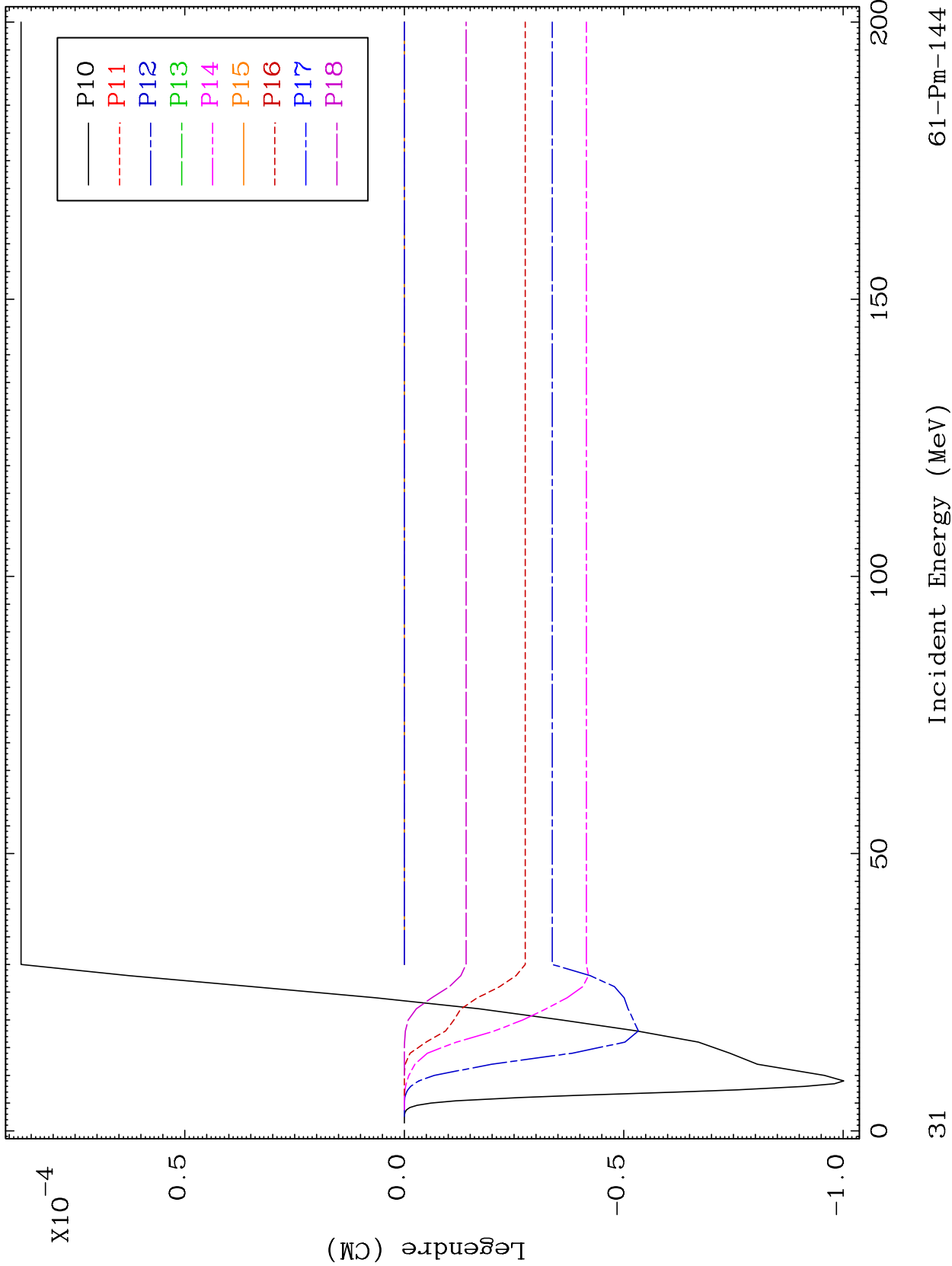
Incident Energy (MeV)

29

MAT 6140

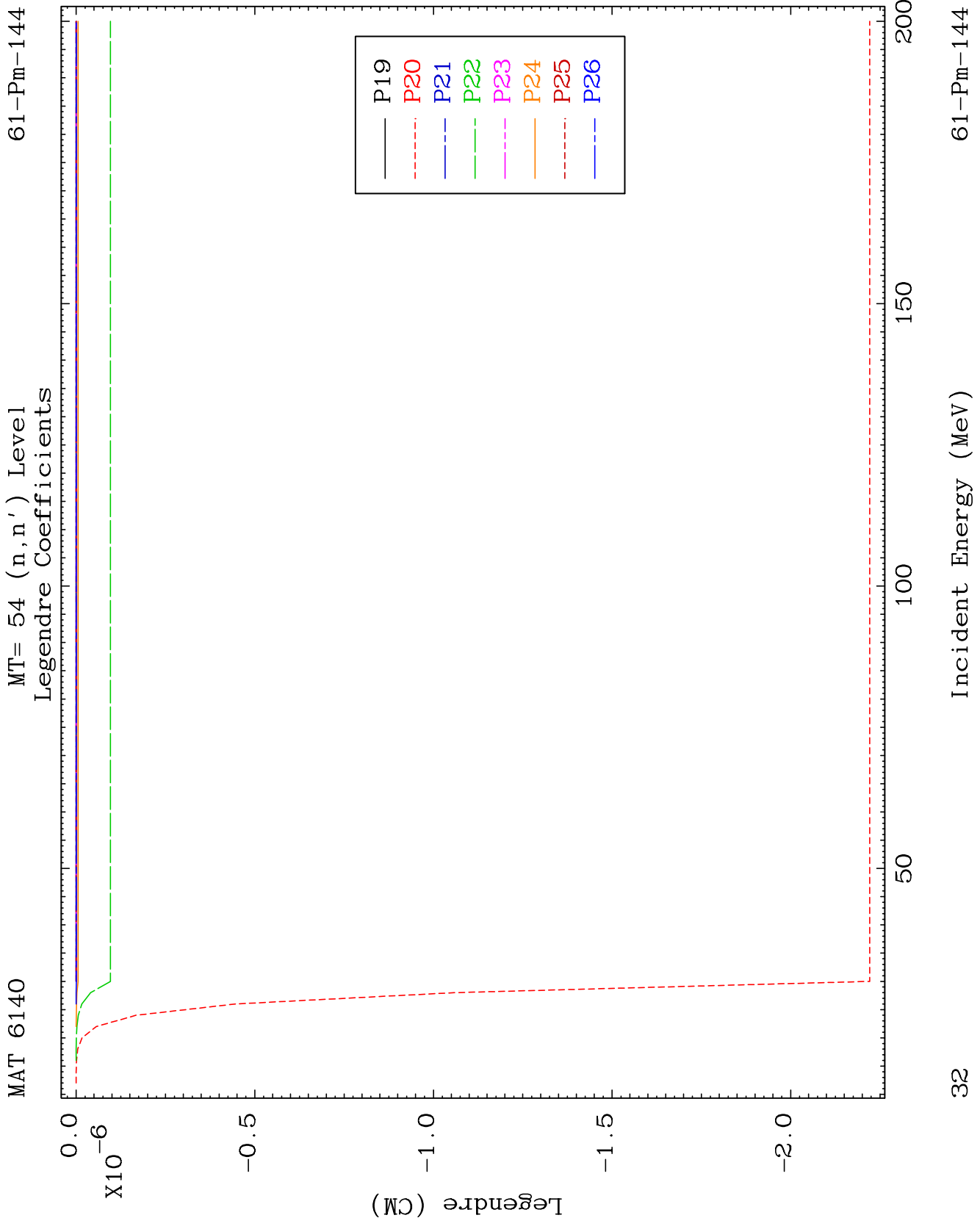
MT= 54 (n,n') Level
Legendre Coefficients

61-Pm-144



31

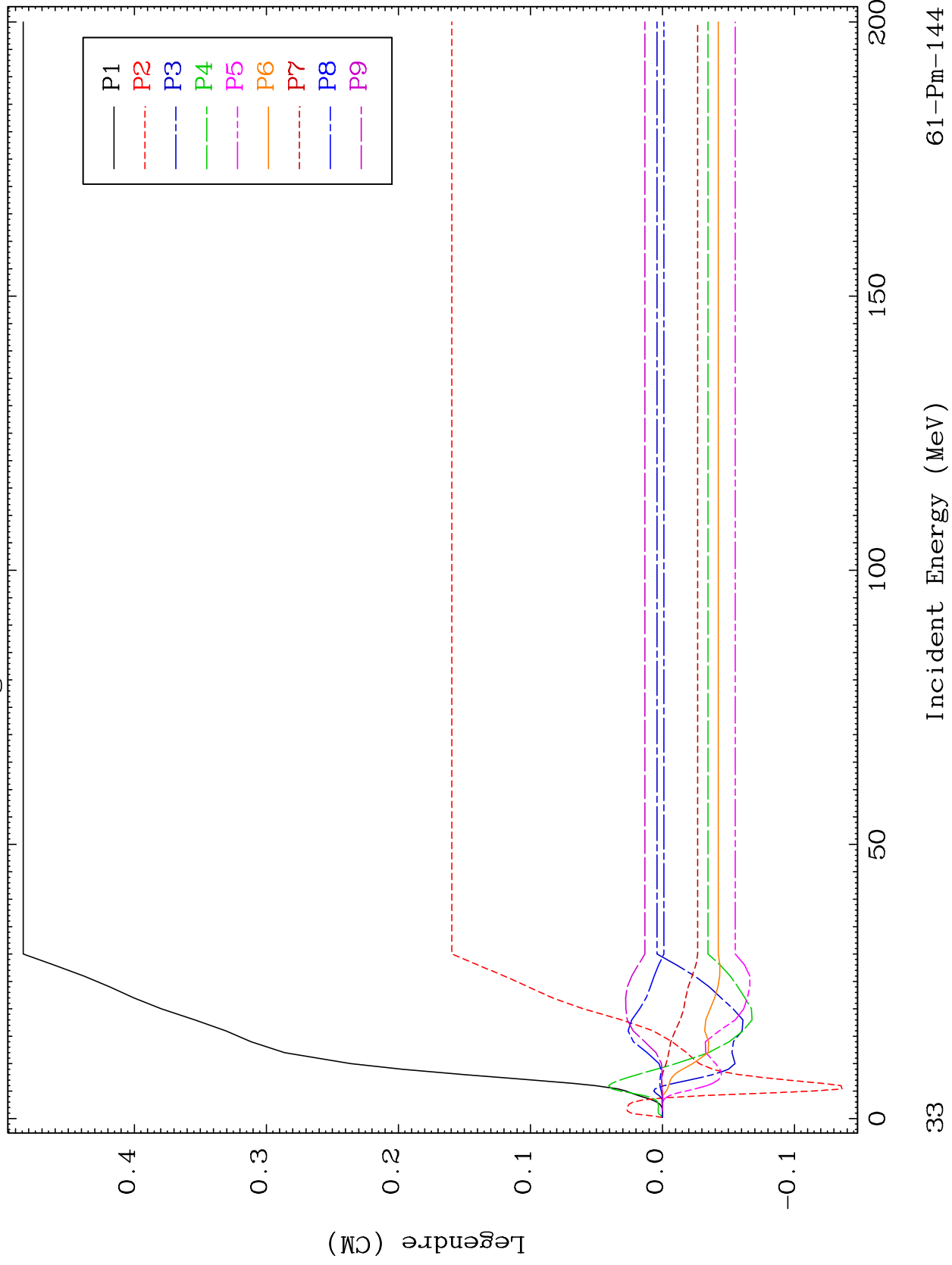
61-Pm-144



MAT 6140

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

61-Pm-144



61-Pm-144

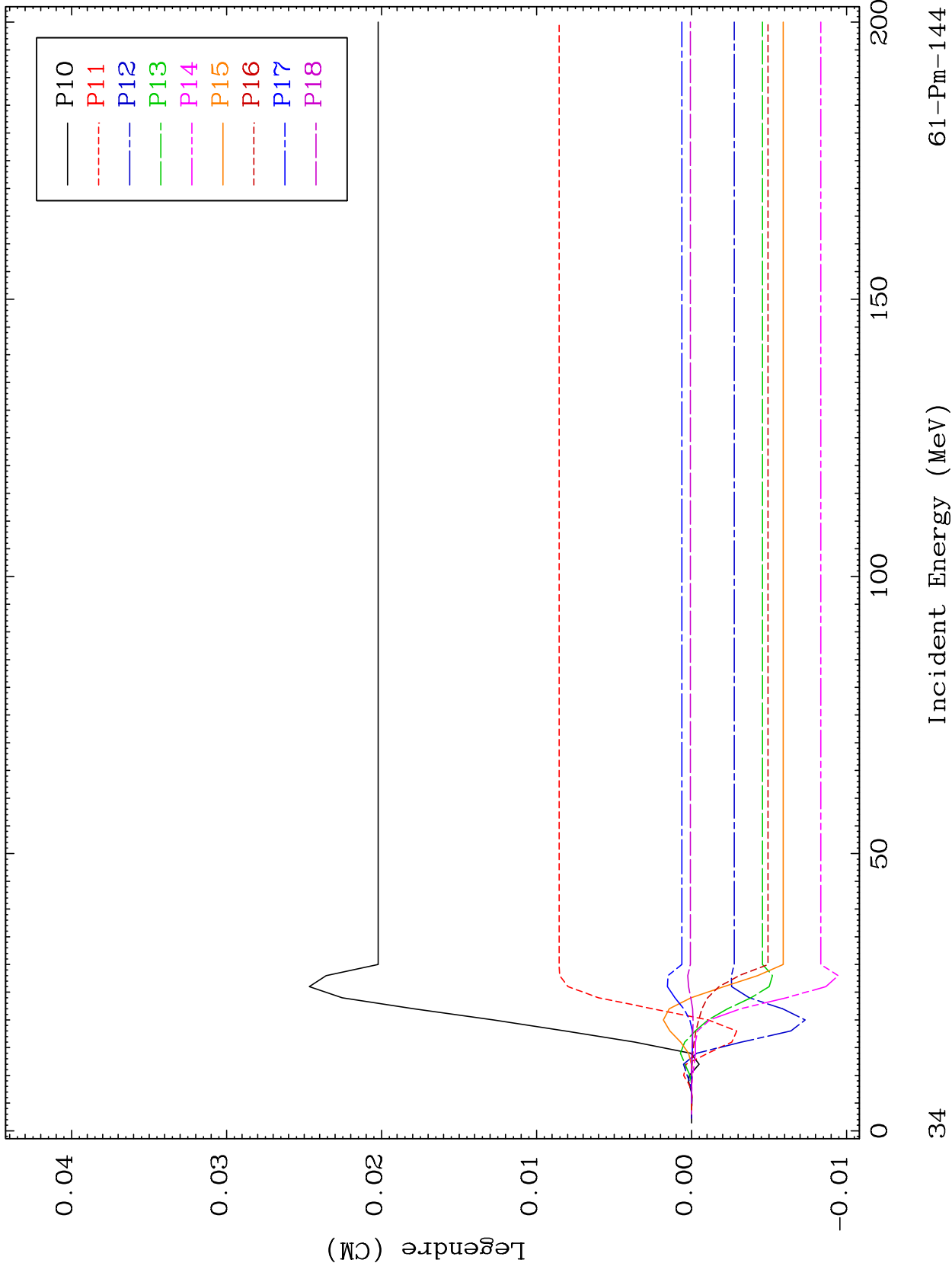
Incident Energy (MeV)

33

MAT 6140

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

61-Pm-144



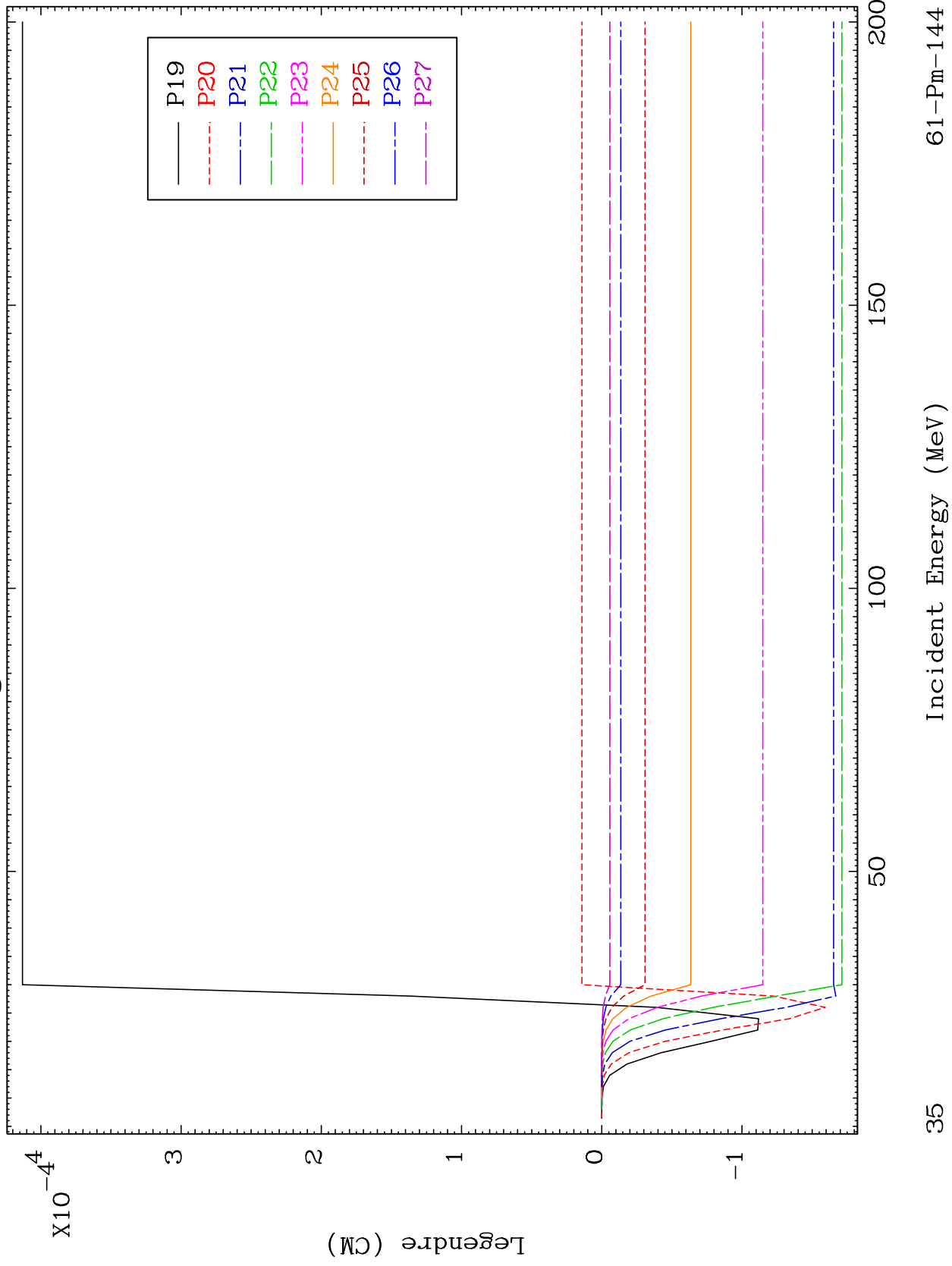
34

61-Pm-144

MAT 6140

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

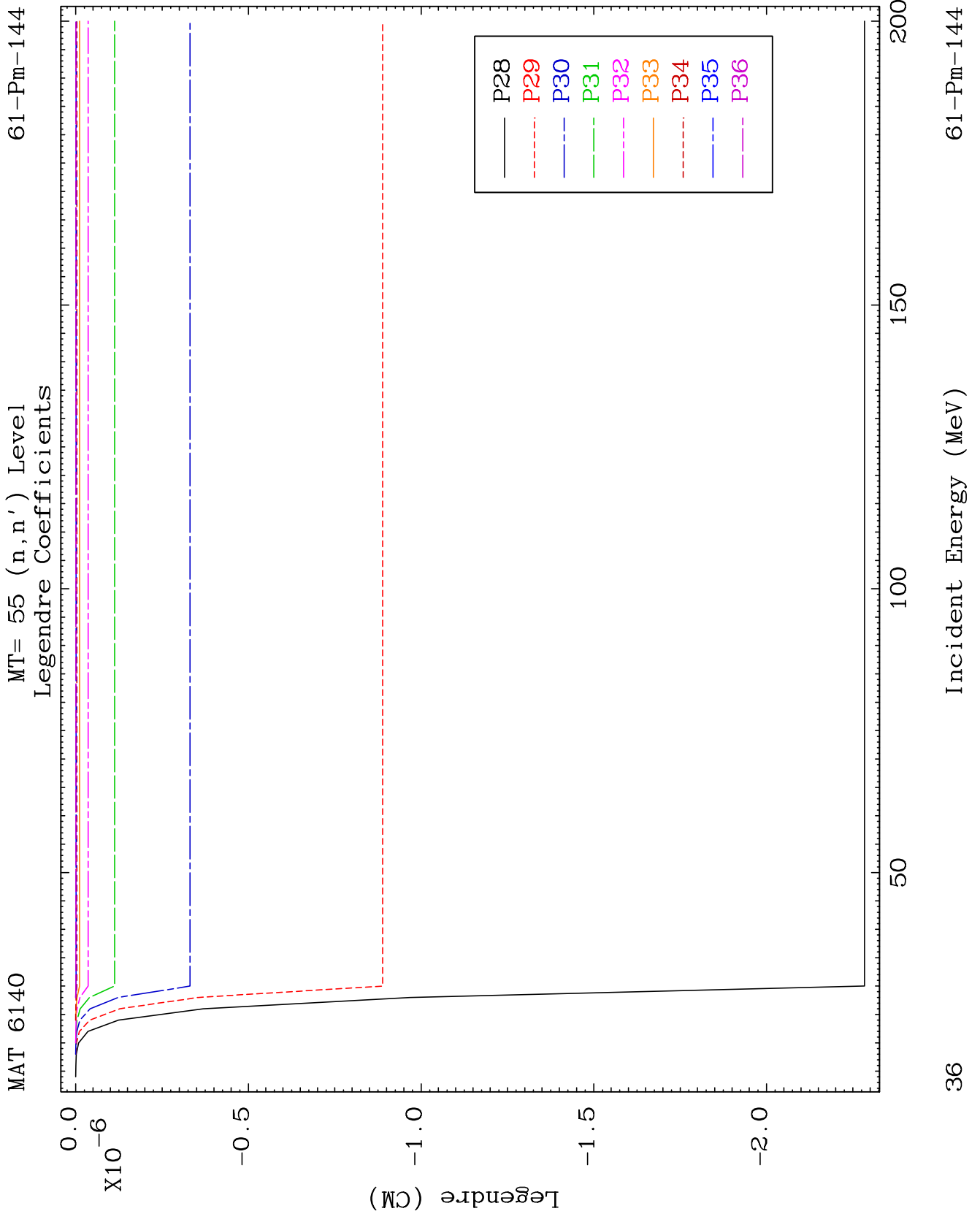
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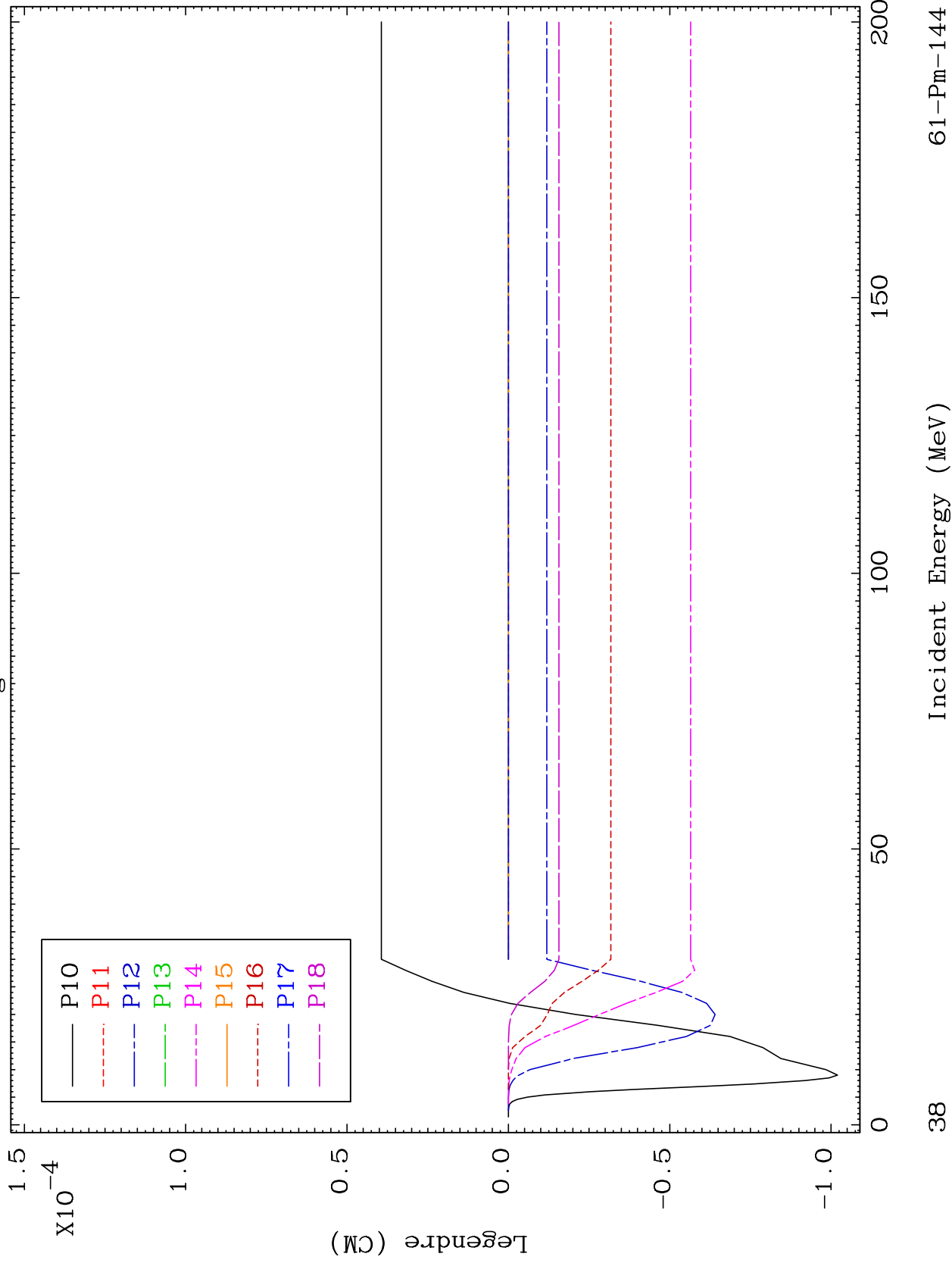


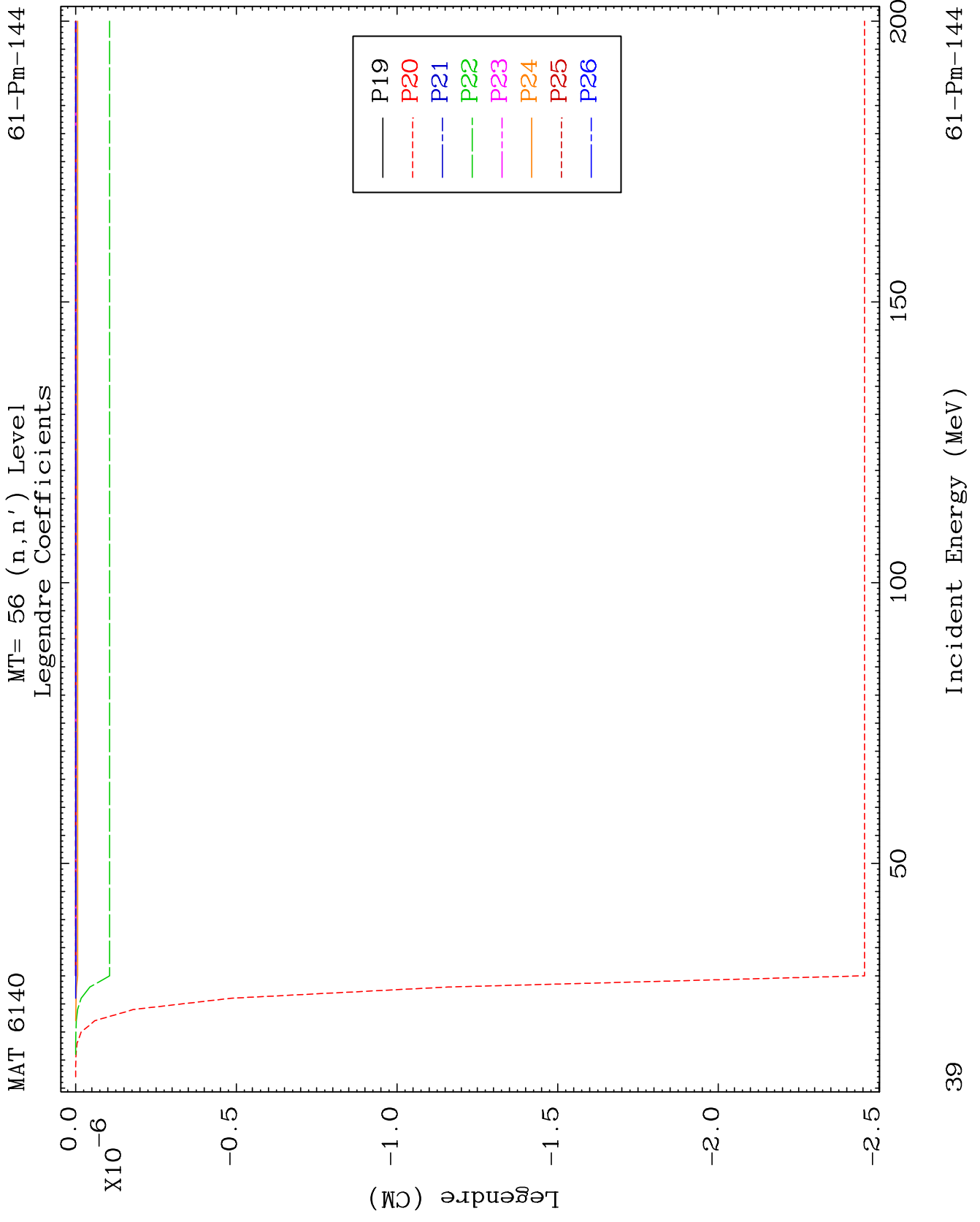
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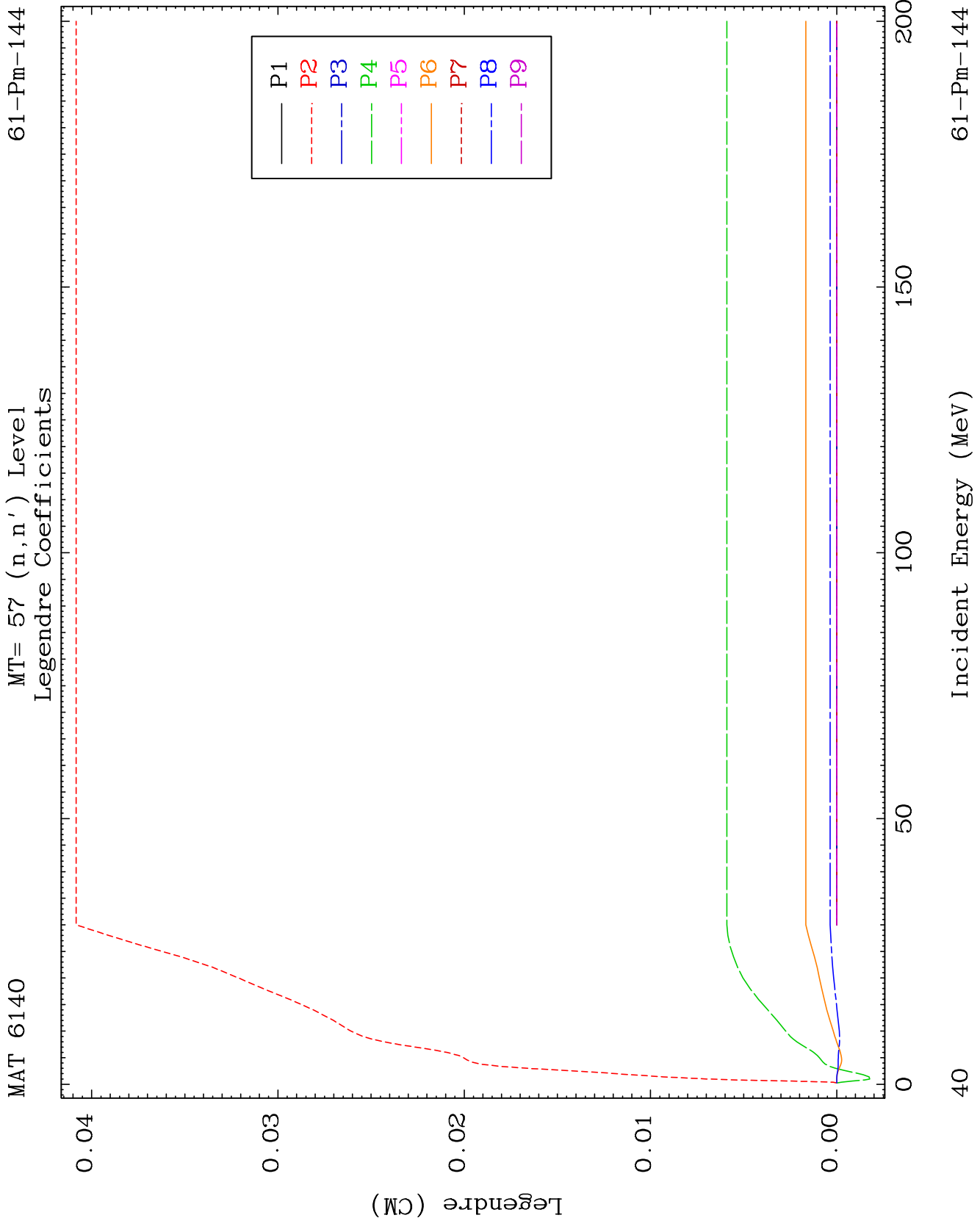
Incident Energy (MeV)

61-Pm-144





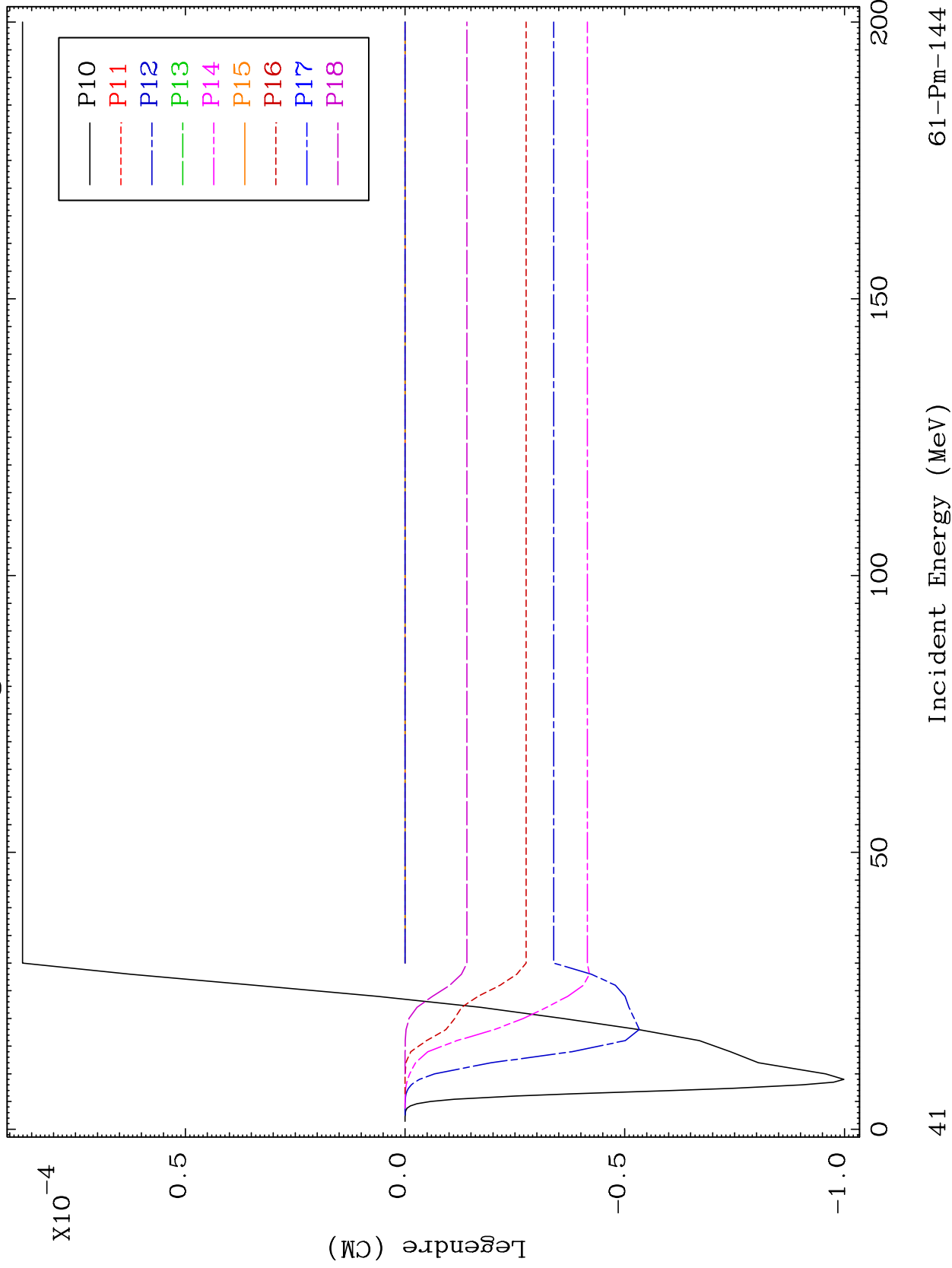




MAT 6140

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

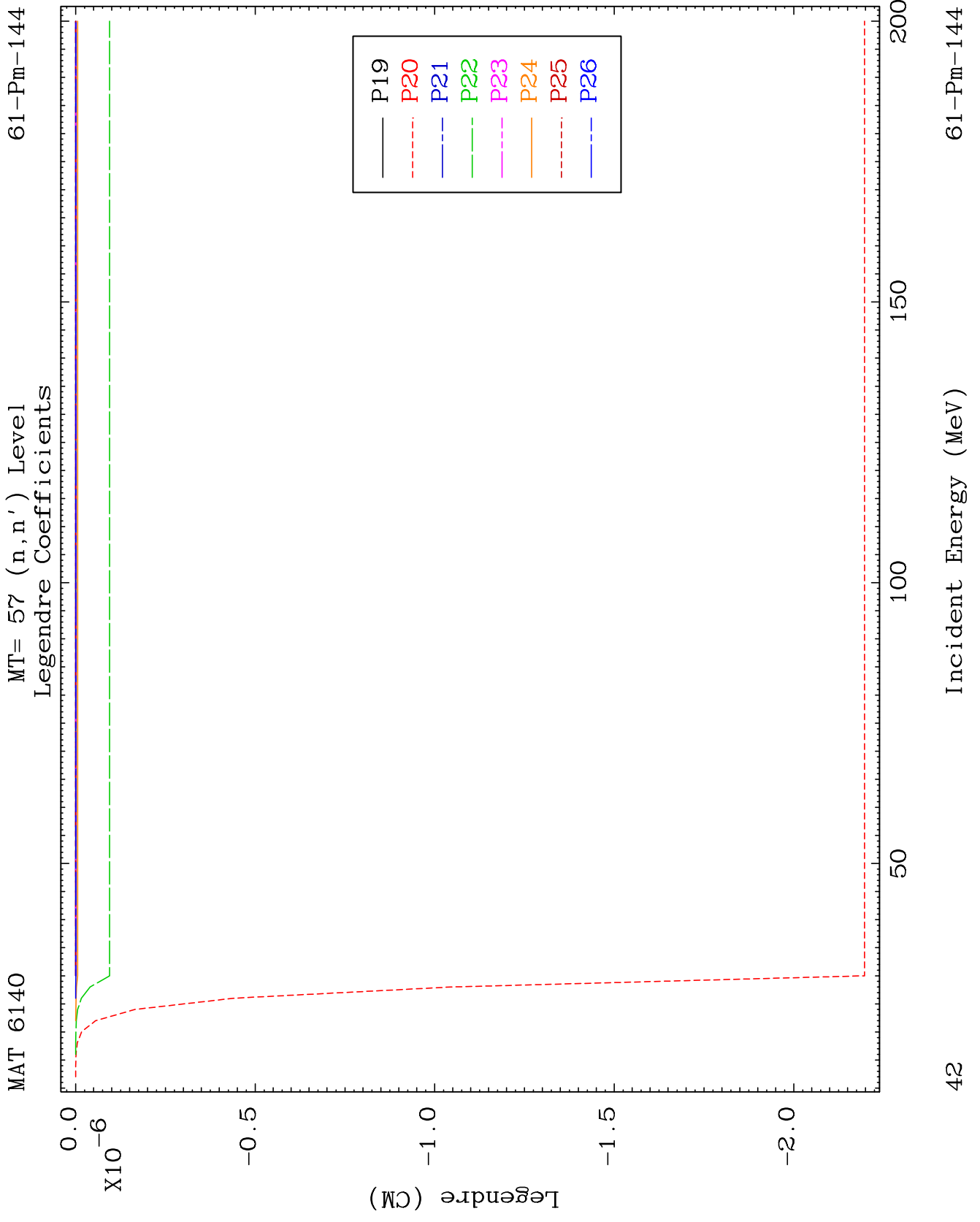
61-Pm-144



61-Pm-144

Incident Energy (MeV)

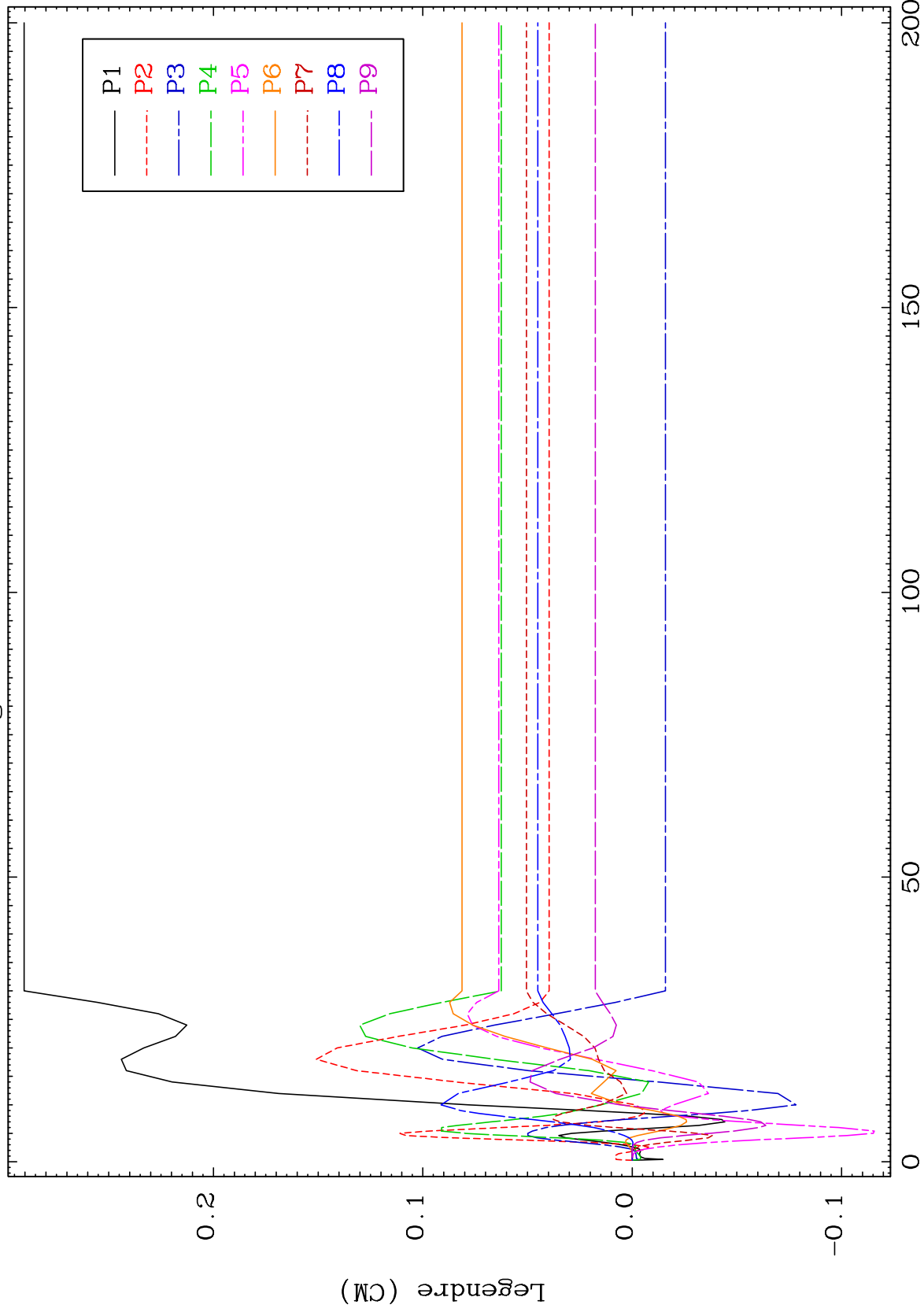
41



MAT 6140

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

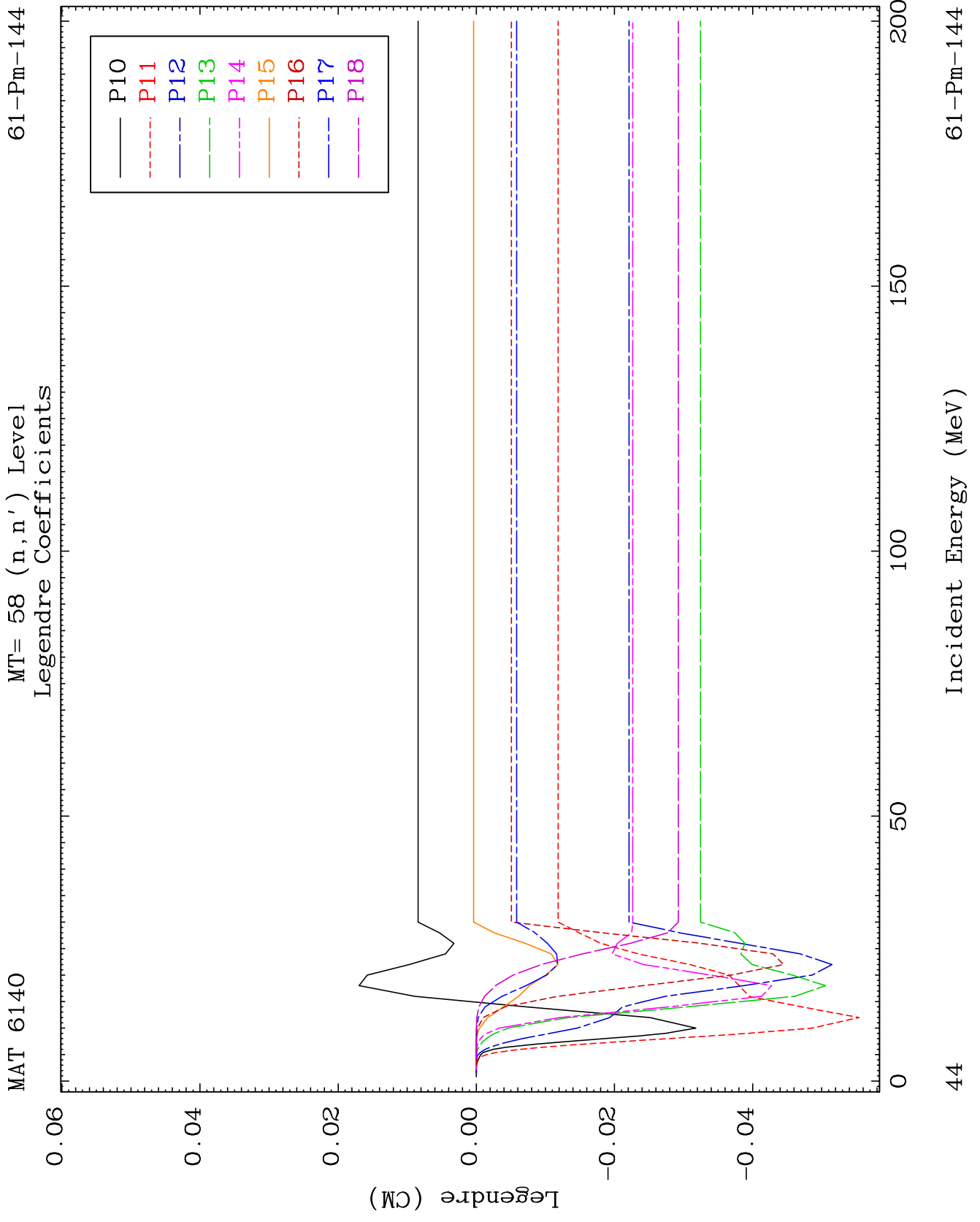
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43

Incident Energy (MeV)

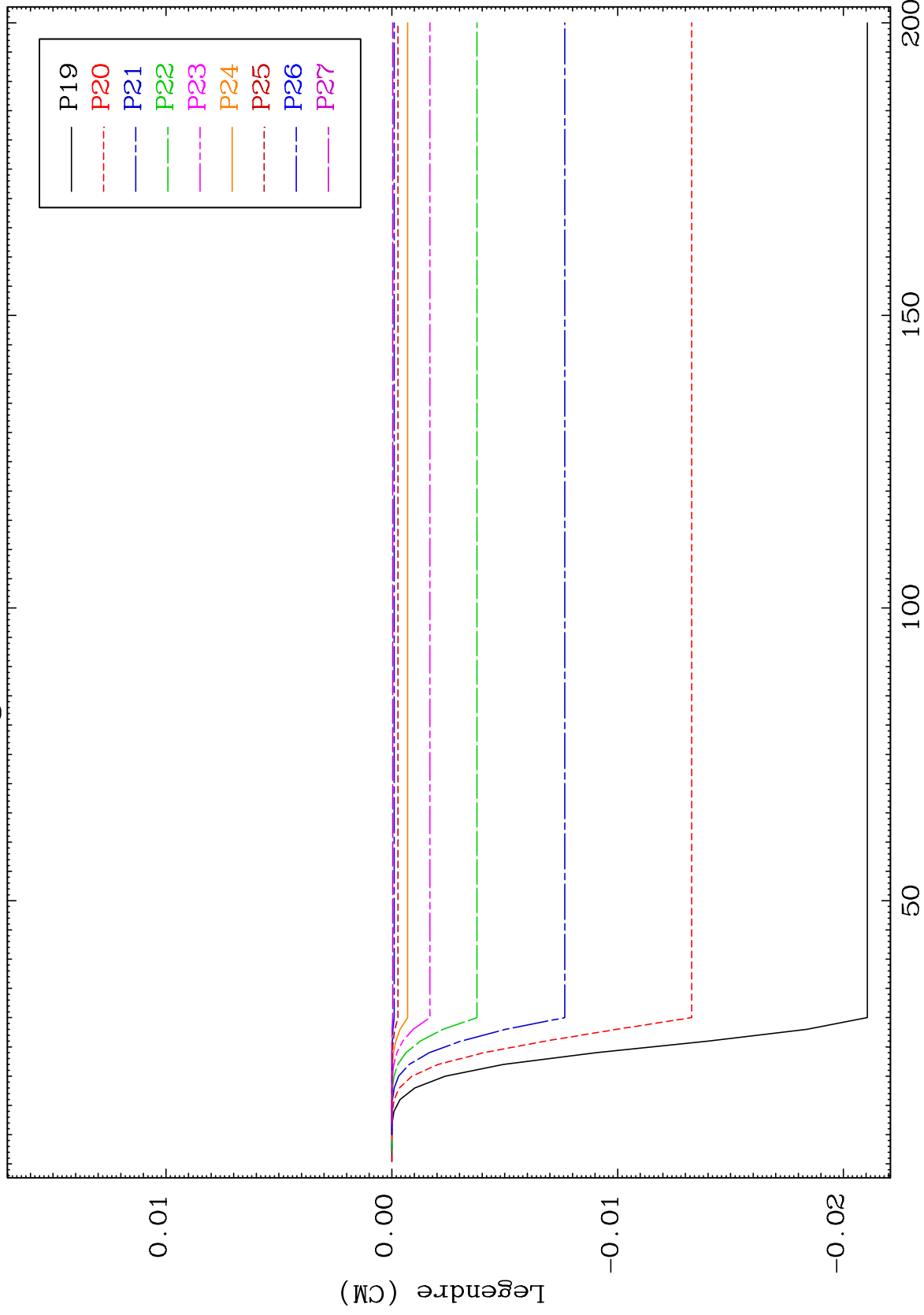
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MAT 6140

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

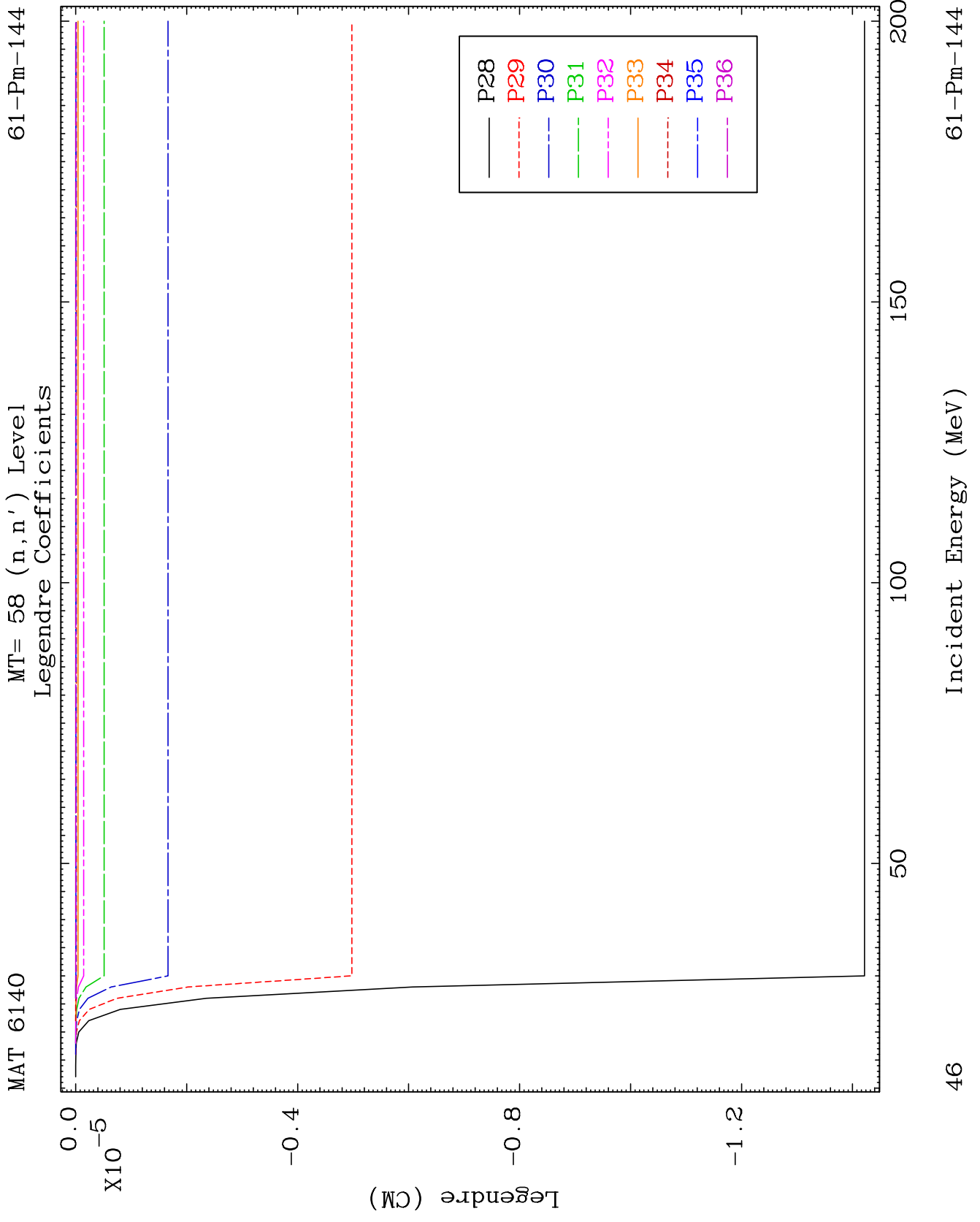
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45

Incident Energy (MeV)

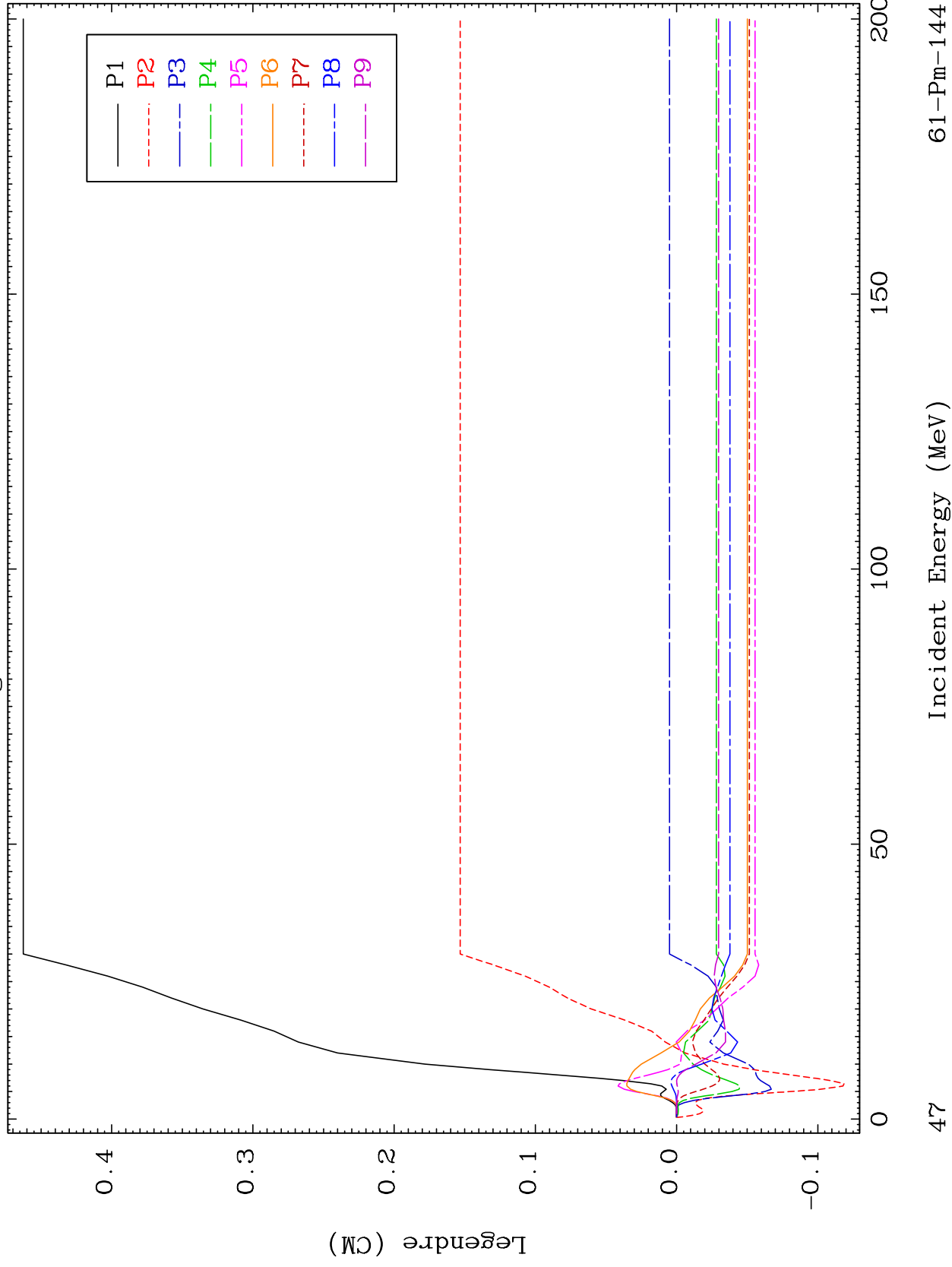
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MAT 6140

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

61-Pm-144



47

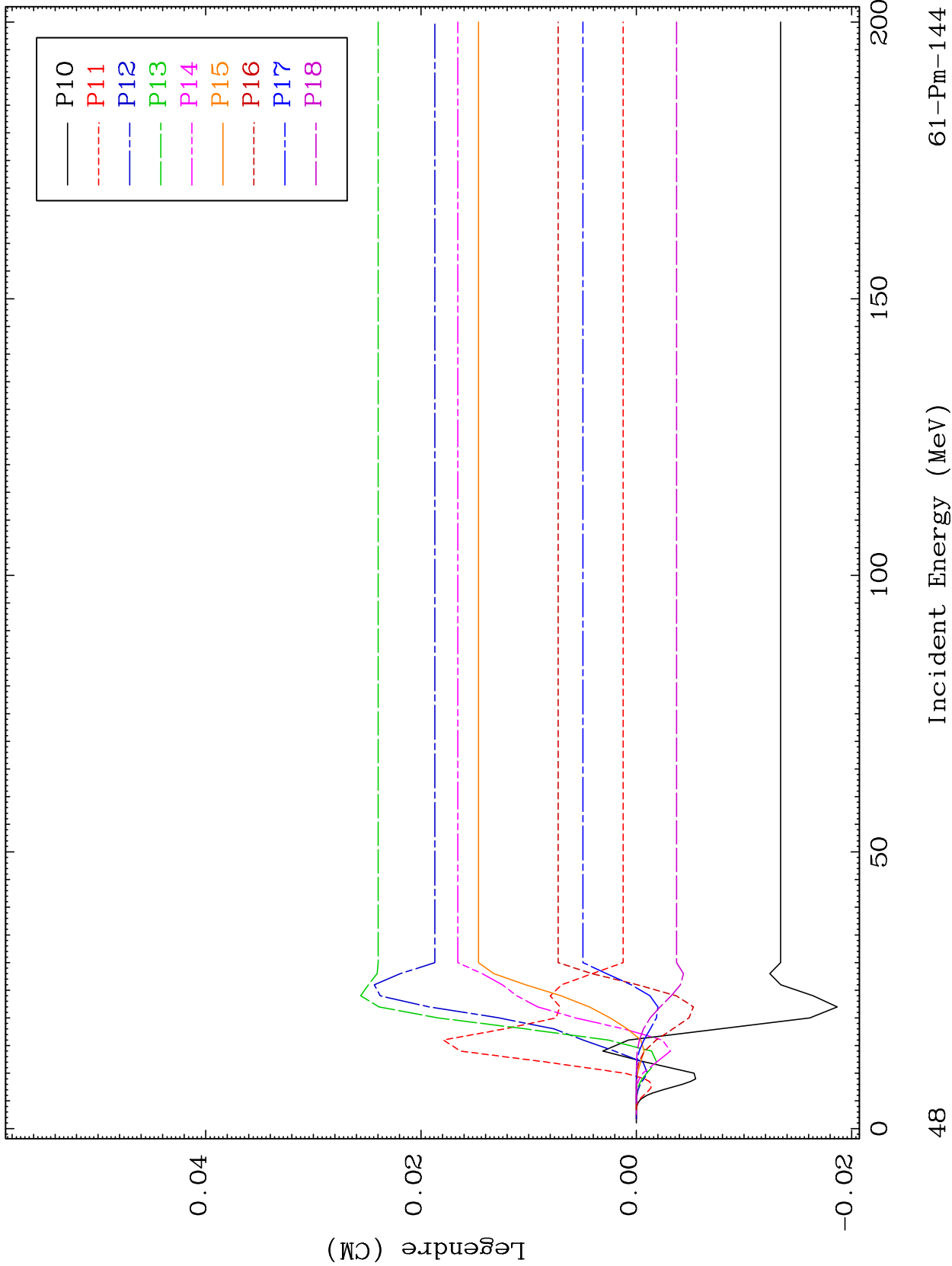
Incident Energy (MeV)

61-Pm-144

MAT 6140

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

61-Pm-144



61-Pm-144

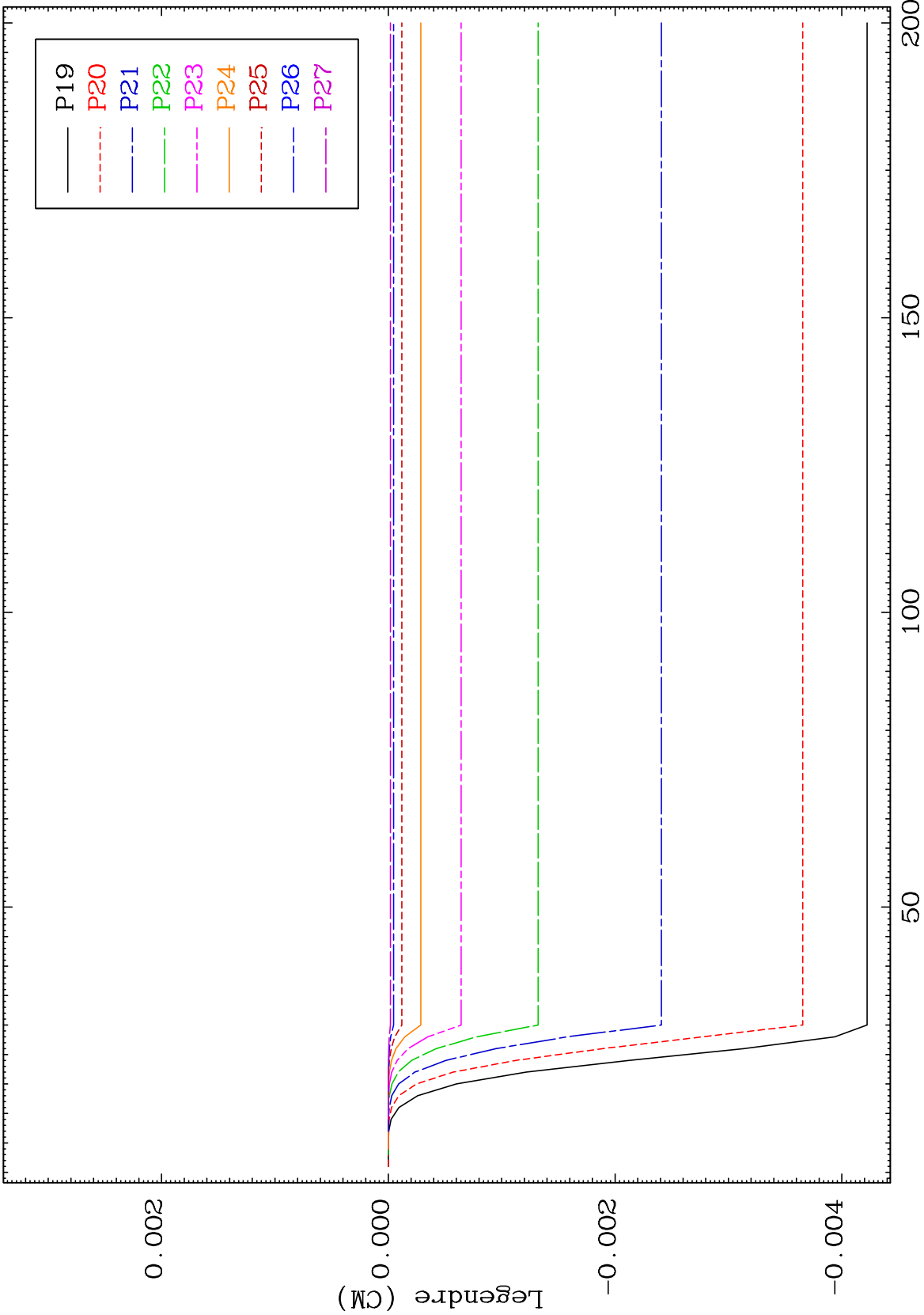
Incident Energy (MeV)

48

MAT 6140

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

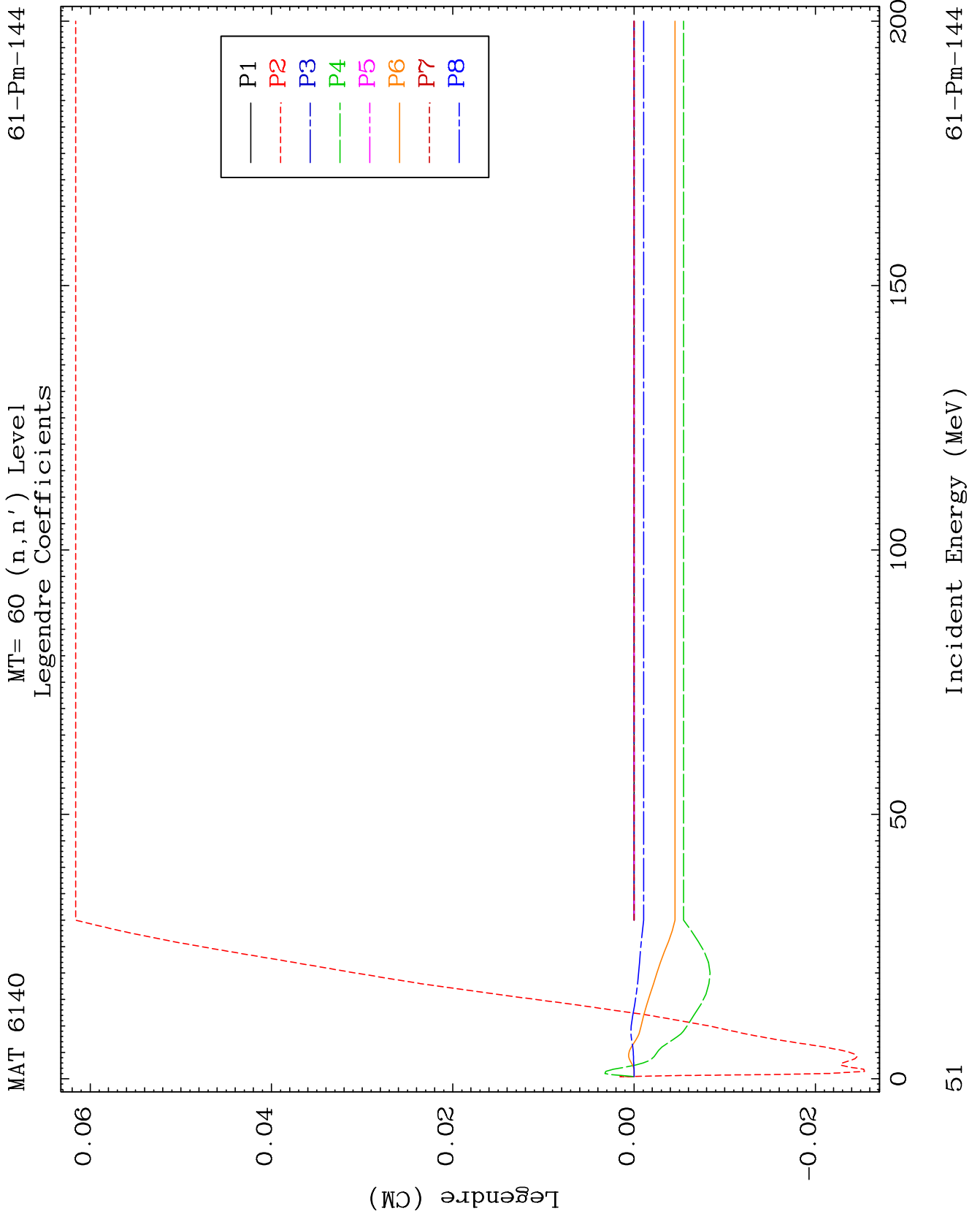
61-Pm-144



49

Incident Energy (MeV)

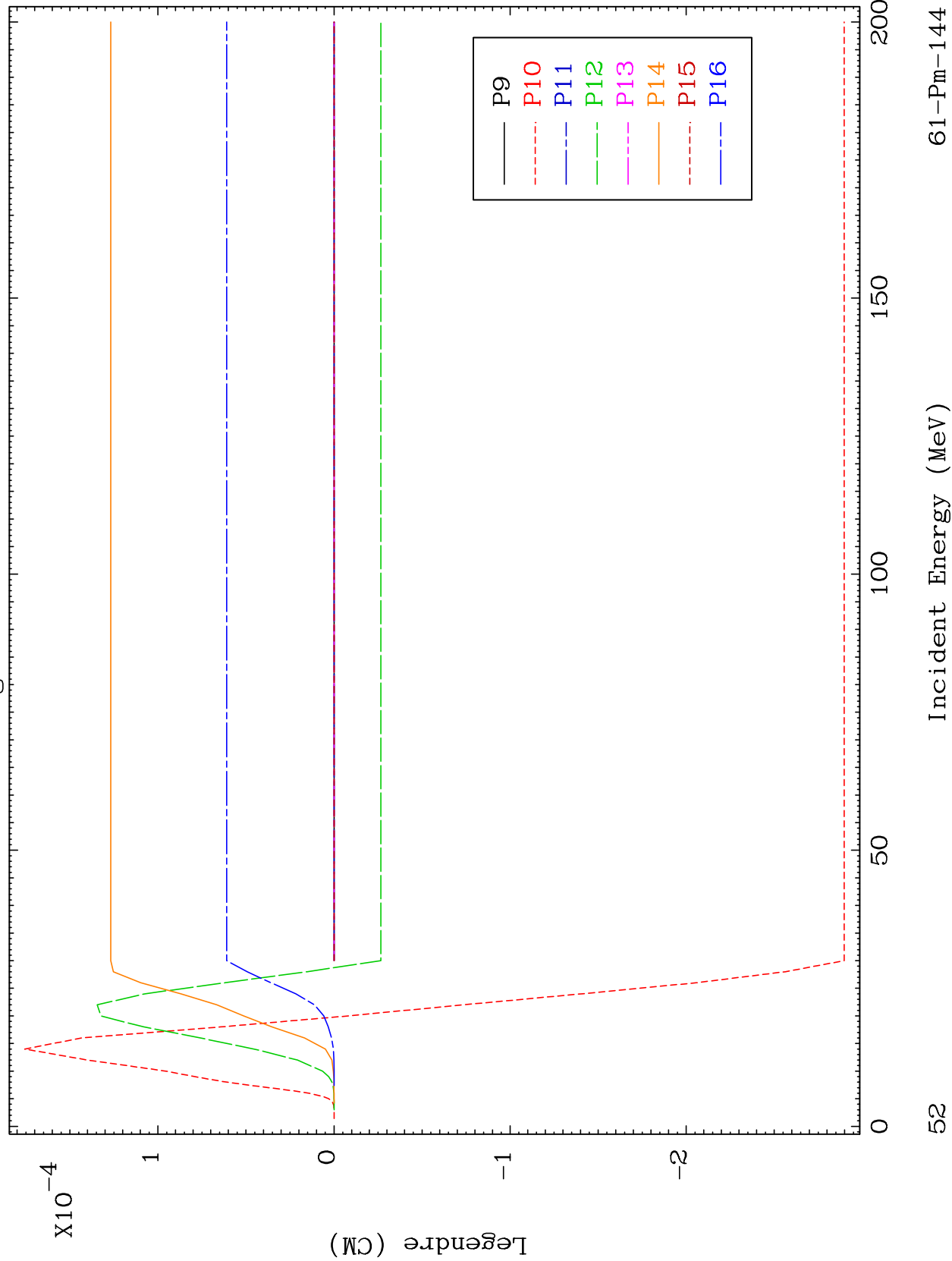
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MAT 6140

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

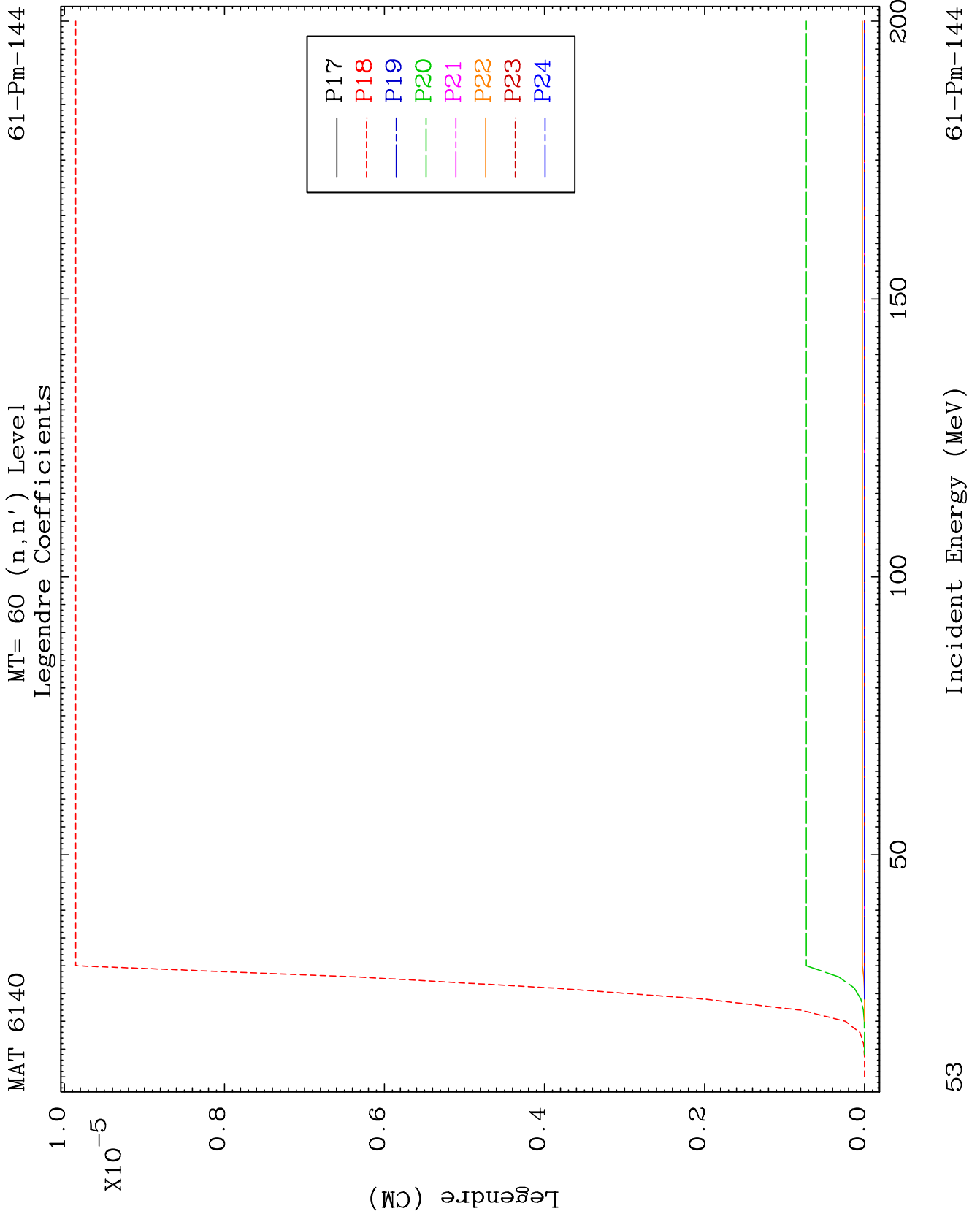
61-Pm-144



61-Pm-144

Incident Energy (MeV)

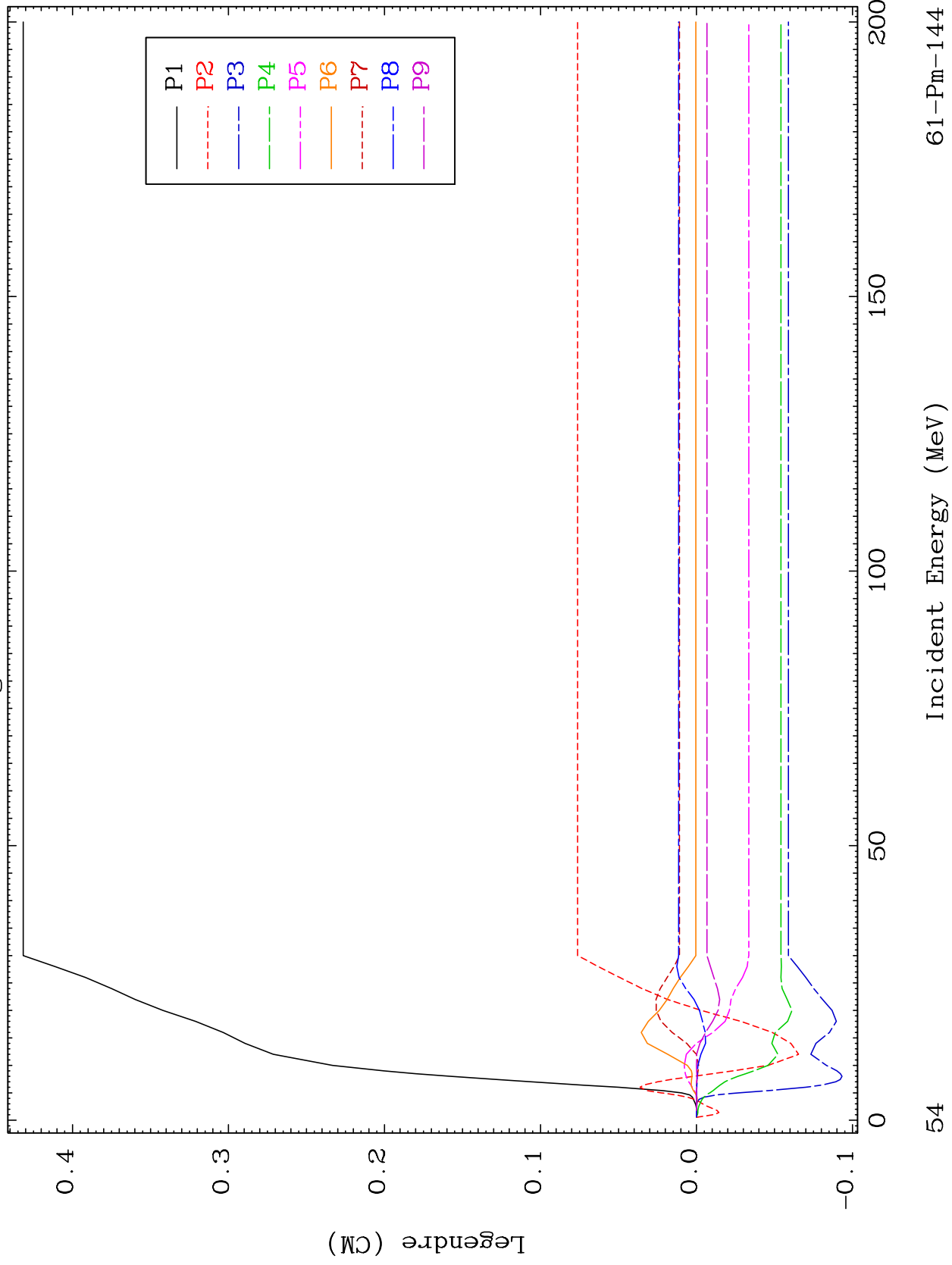
52



MAT 6140

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

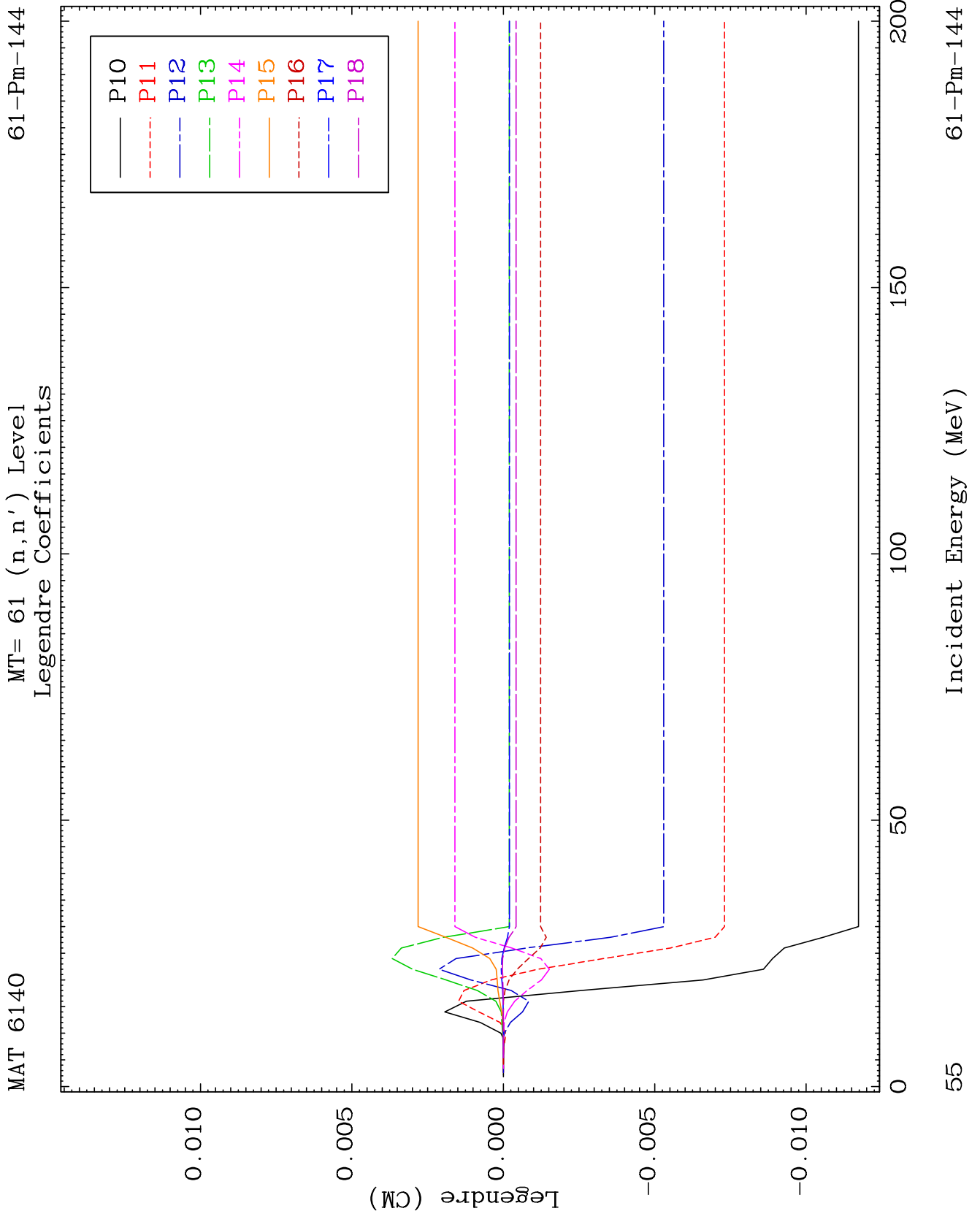
61-Pm-144



61-Pm-144

Incident Energy (MeV)

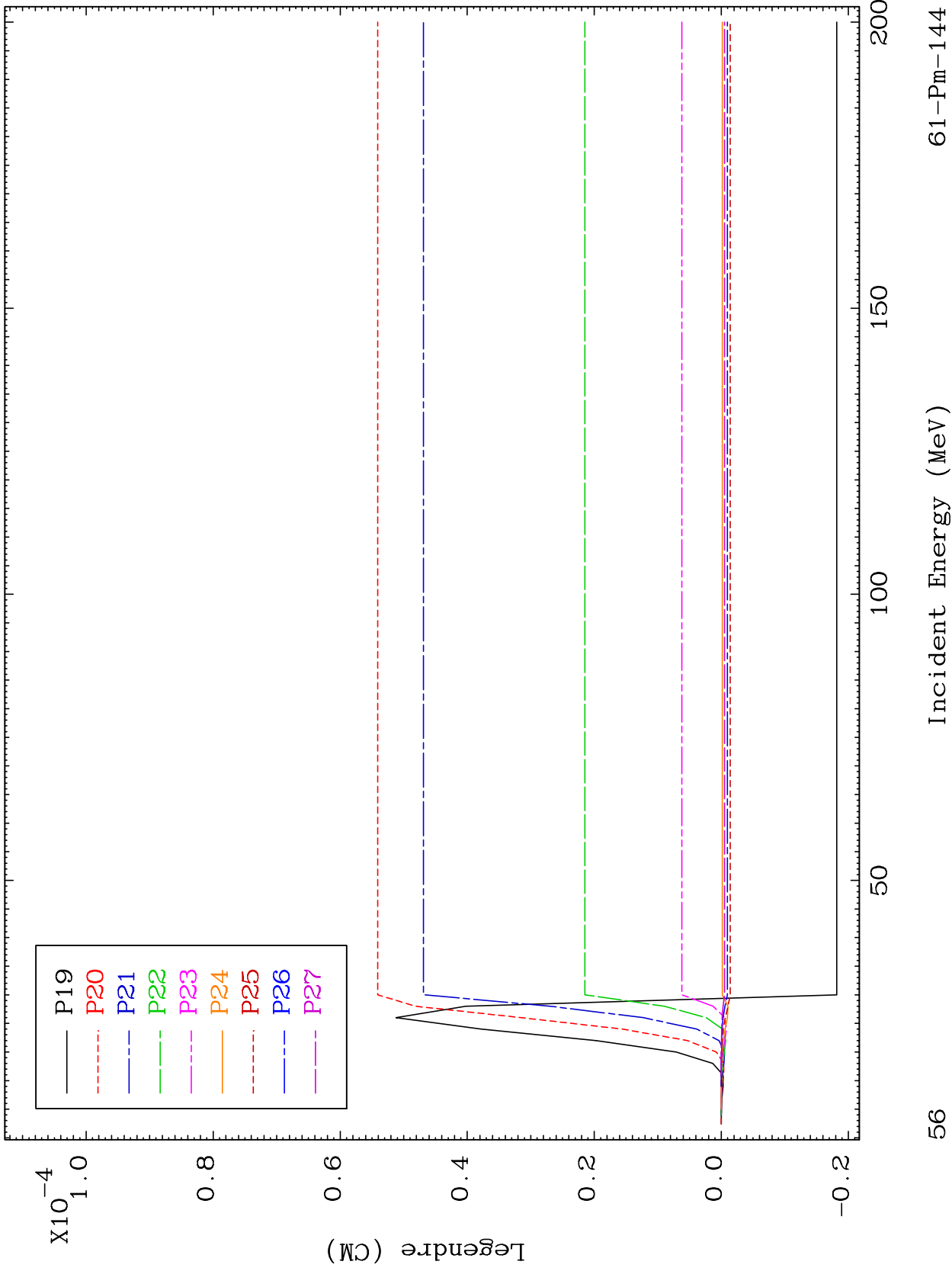
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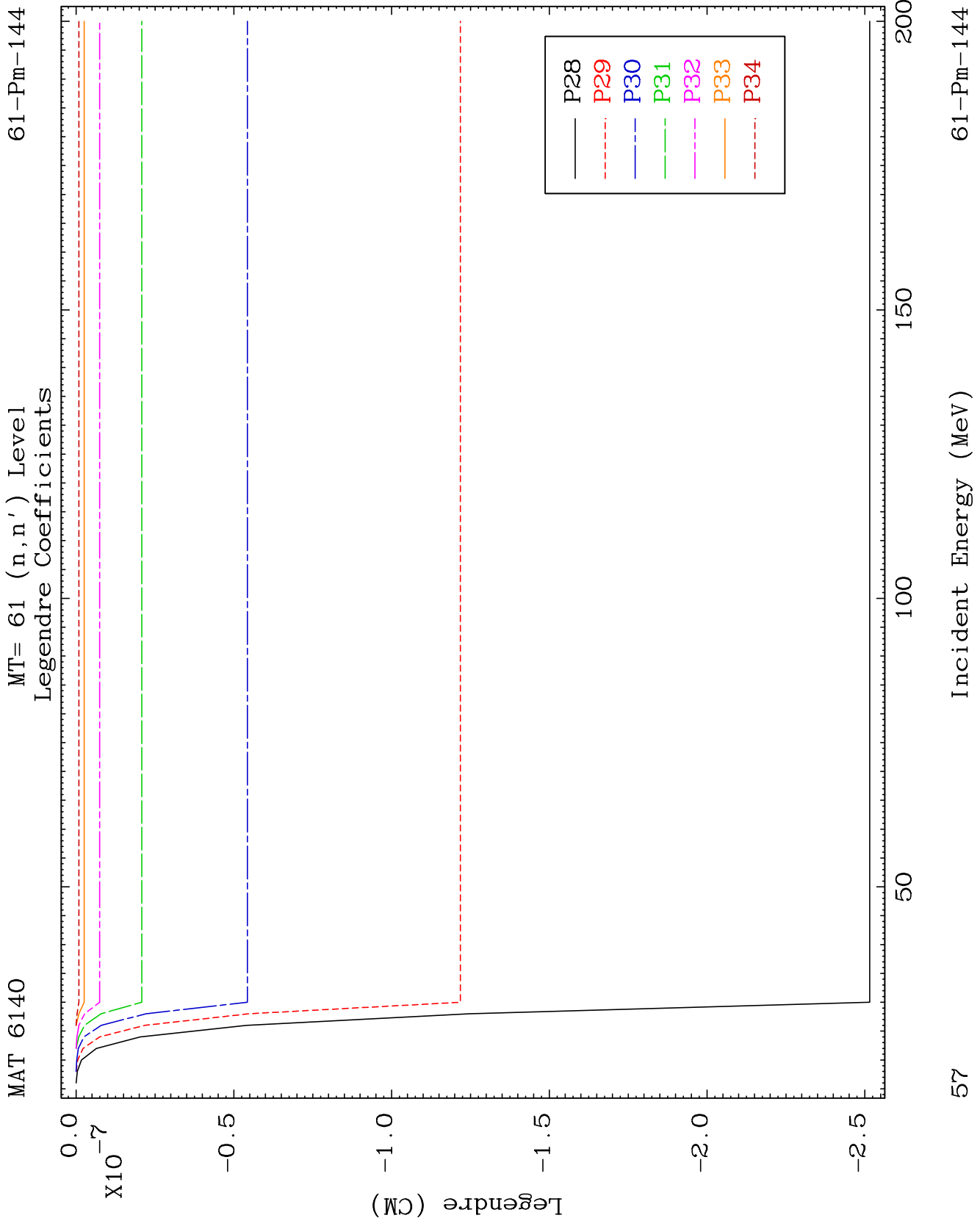


MAT 6140

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

61-Pm-144

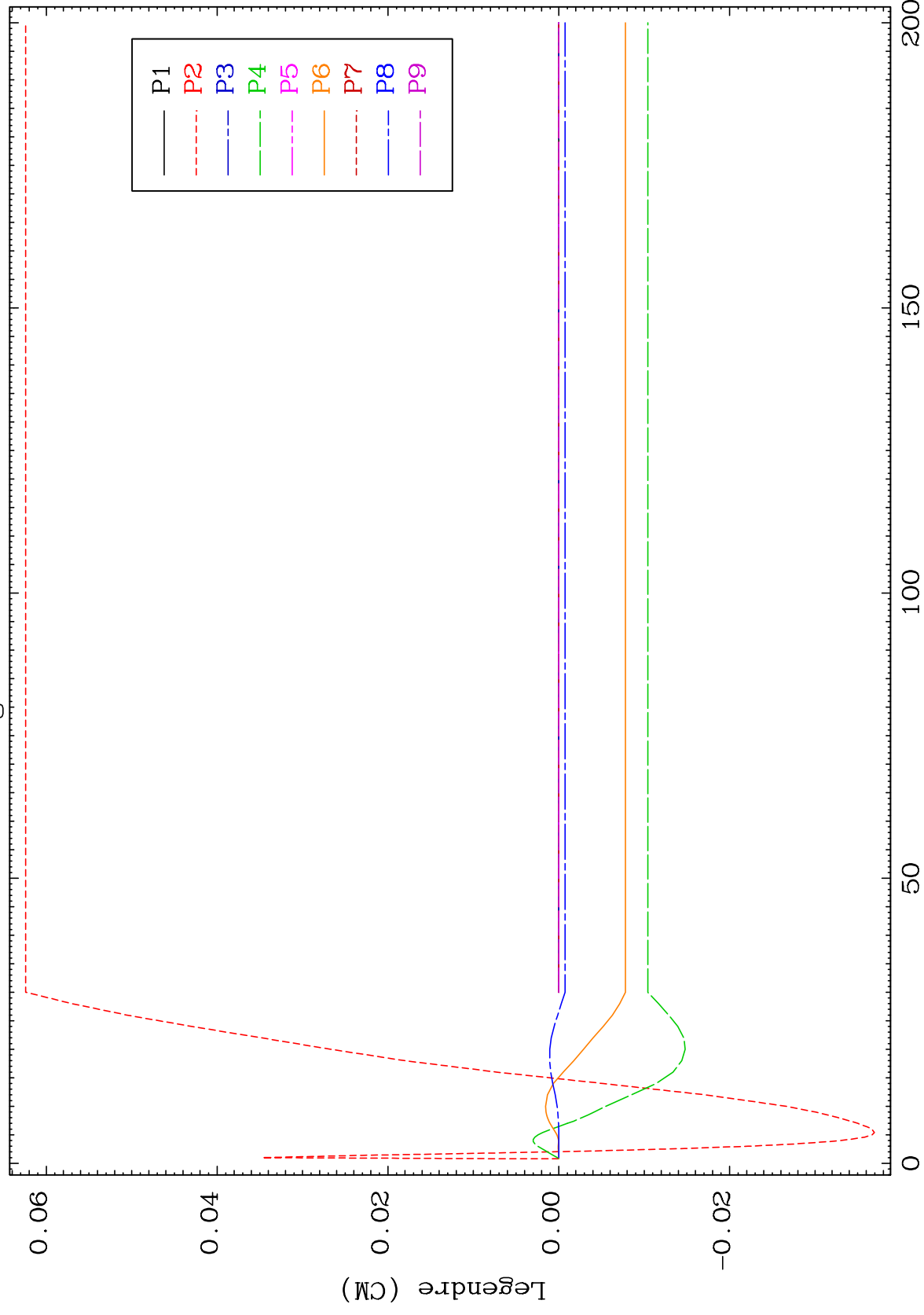




MAT 6140

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

61-Pm-144



58

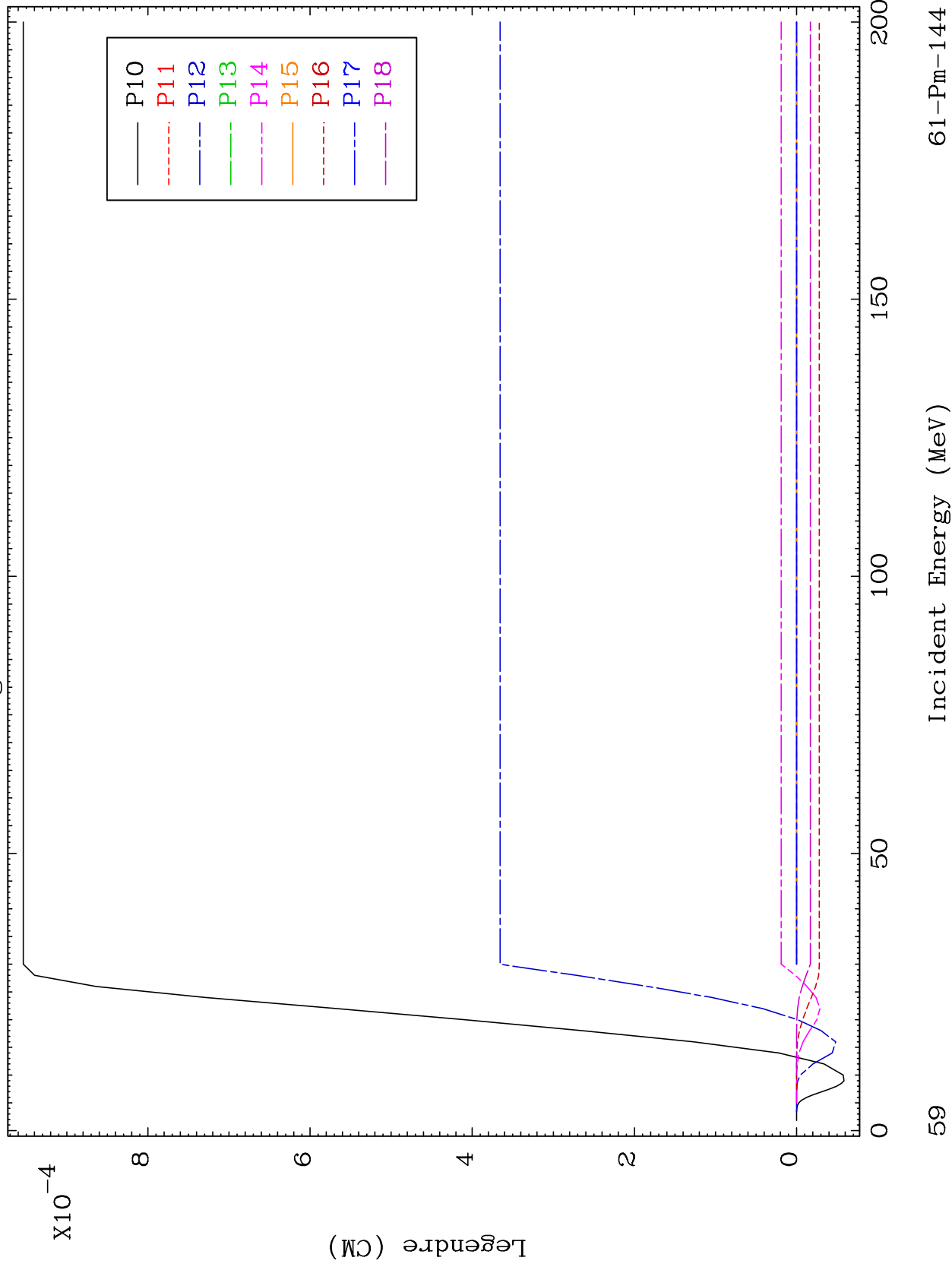
Incident Energy (MeV)

61-Pm-144

MAT 6140

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

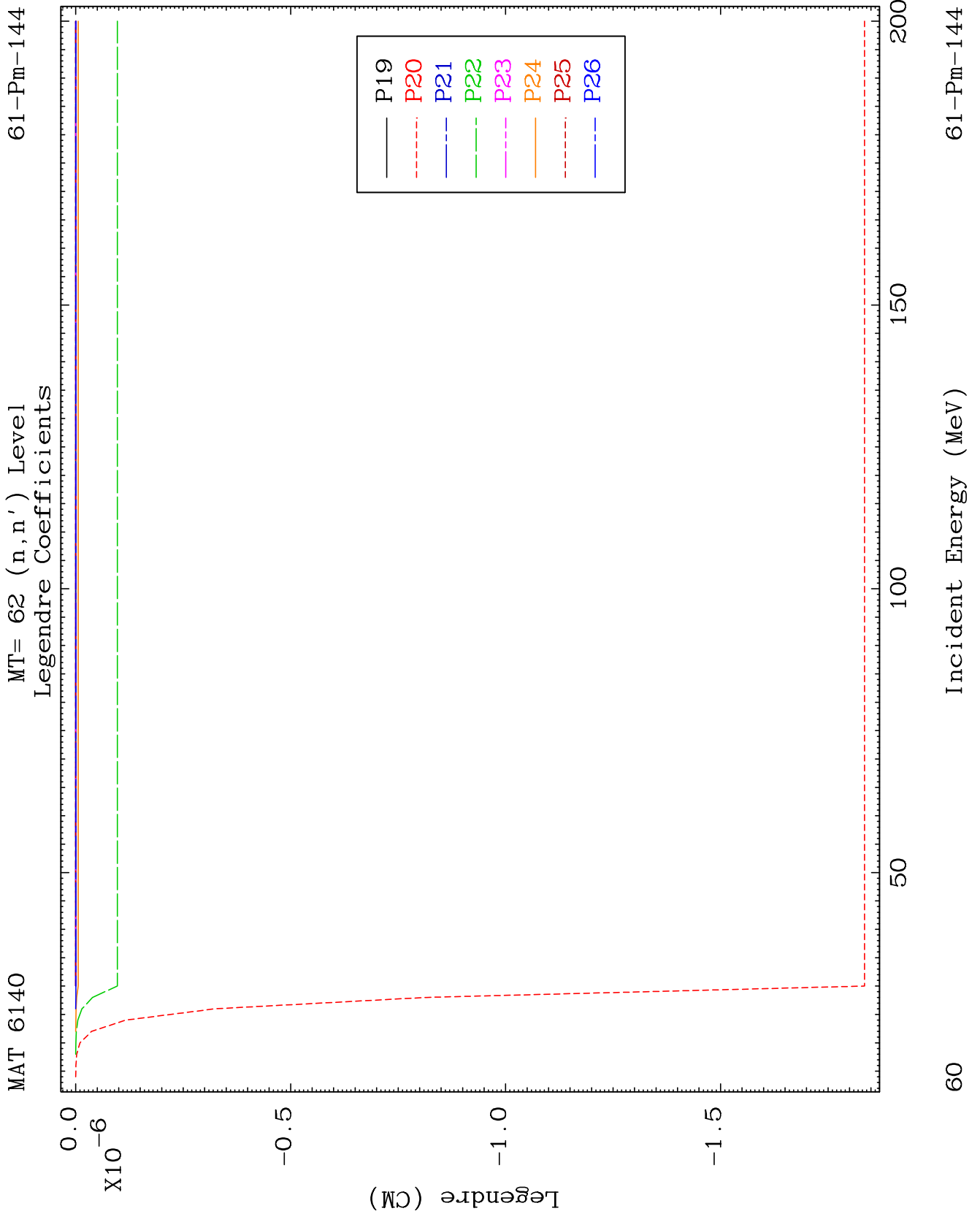
61-Pm-144



61-Pm-144

Incident Energy (MeV)

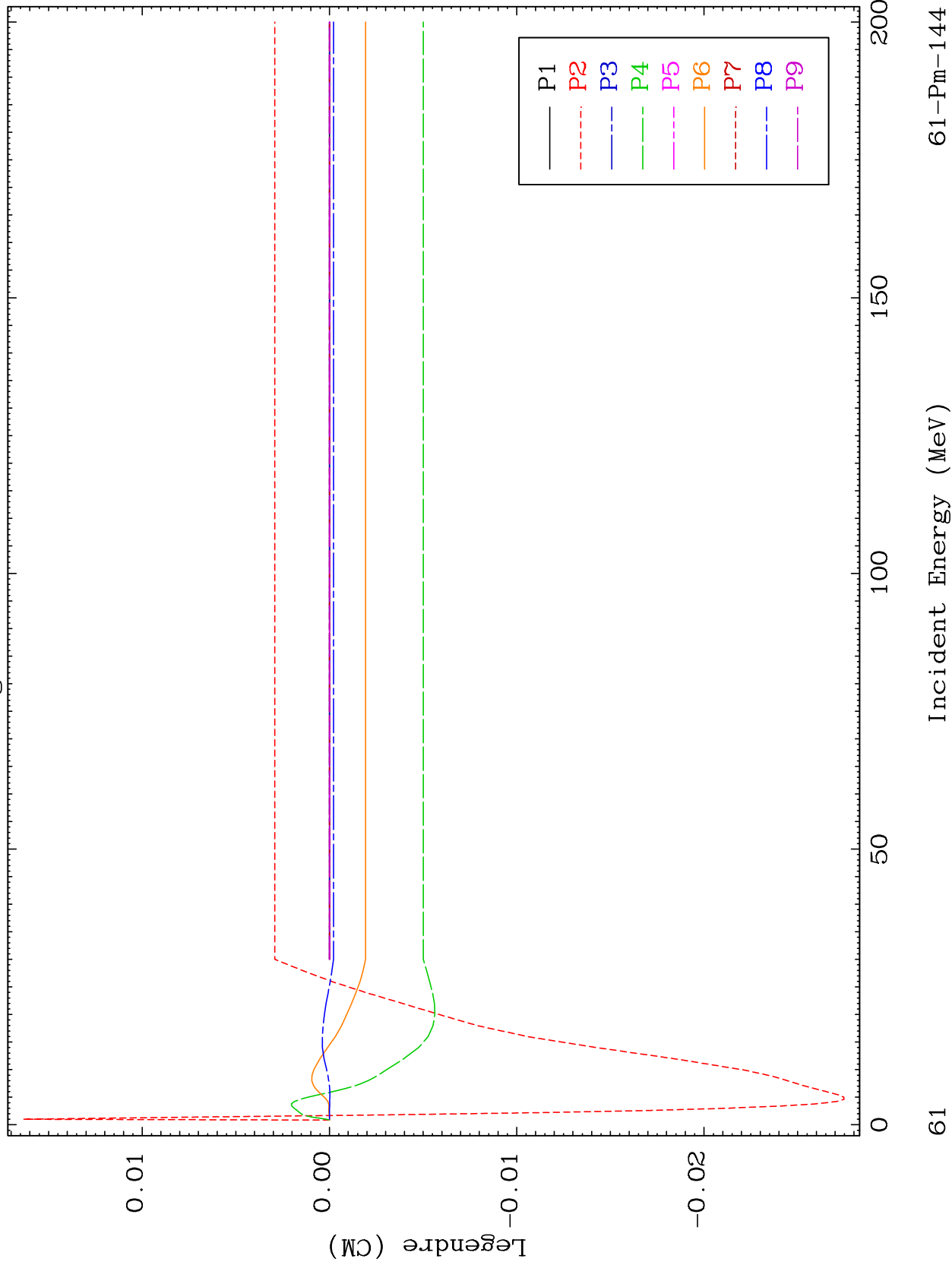
59



MAT 6140

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

61-Pm-144



61-Pm-144

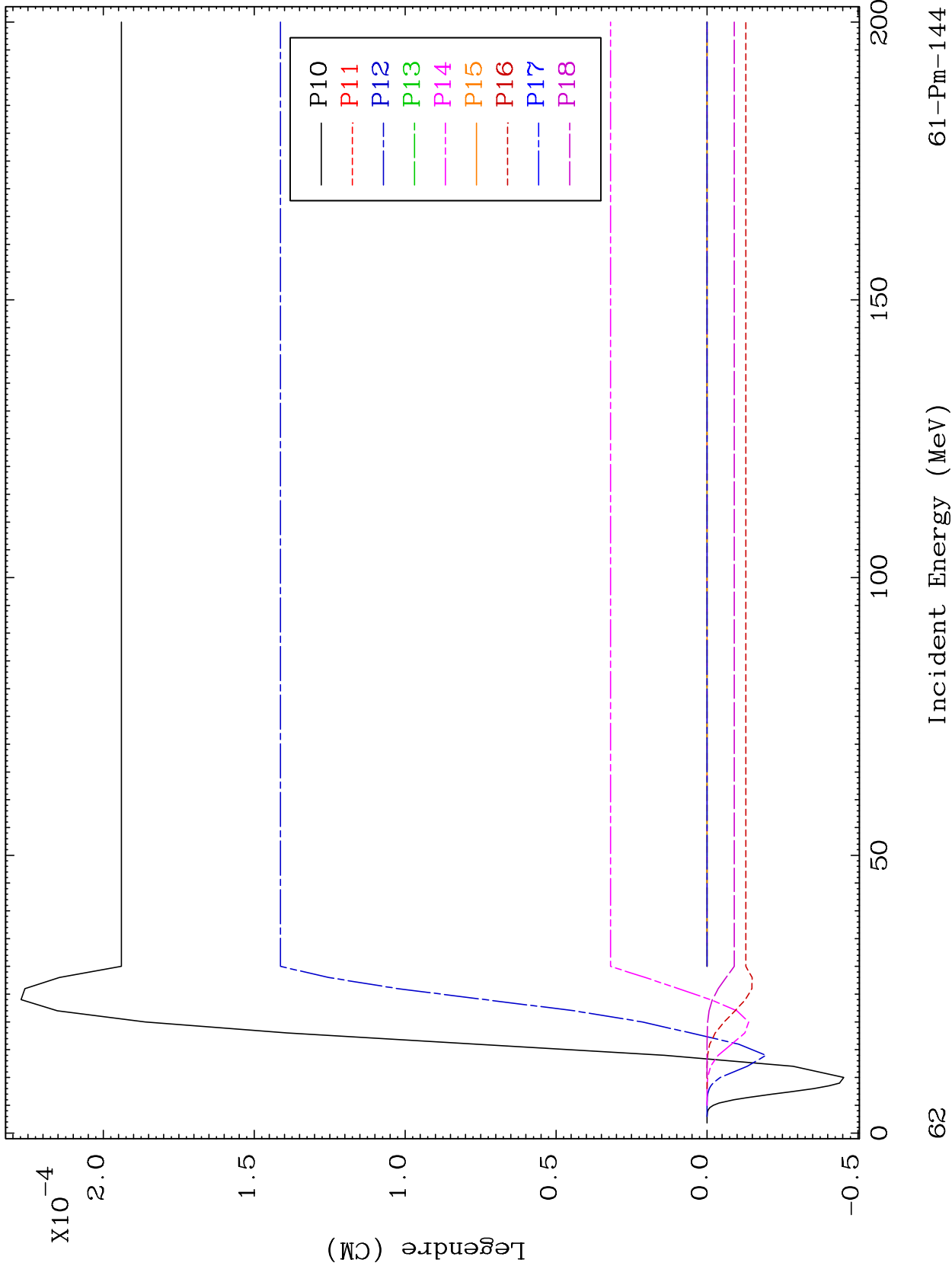
Incident Energy (MeV)

61

MAT 6140

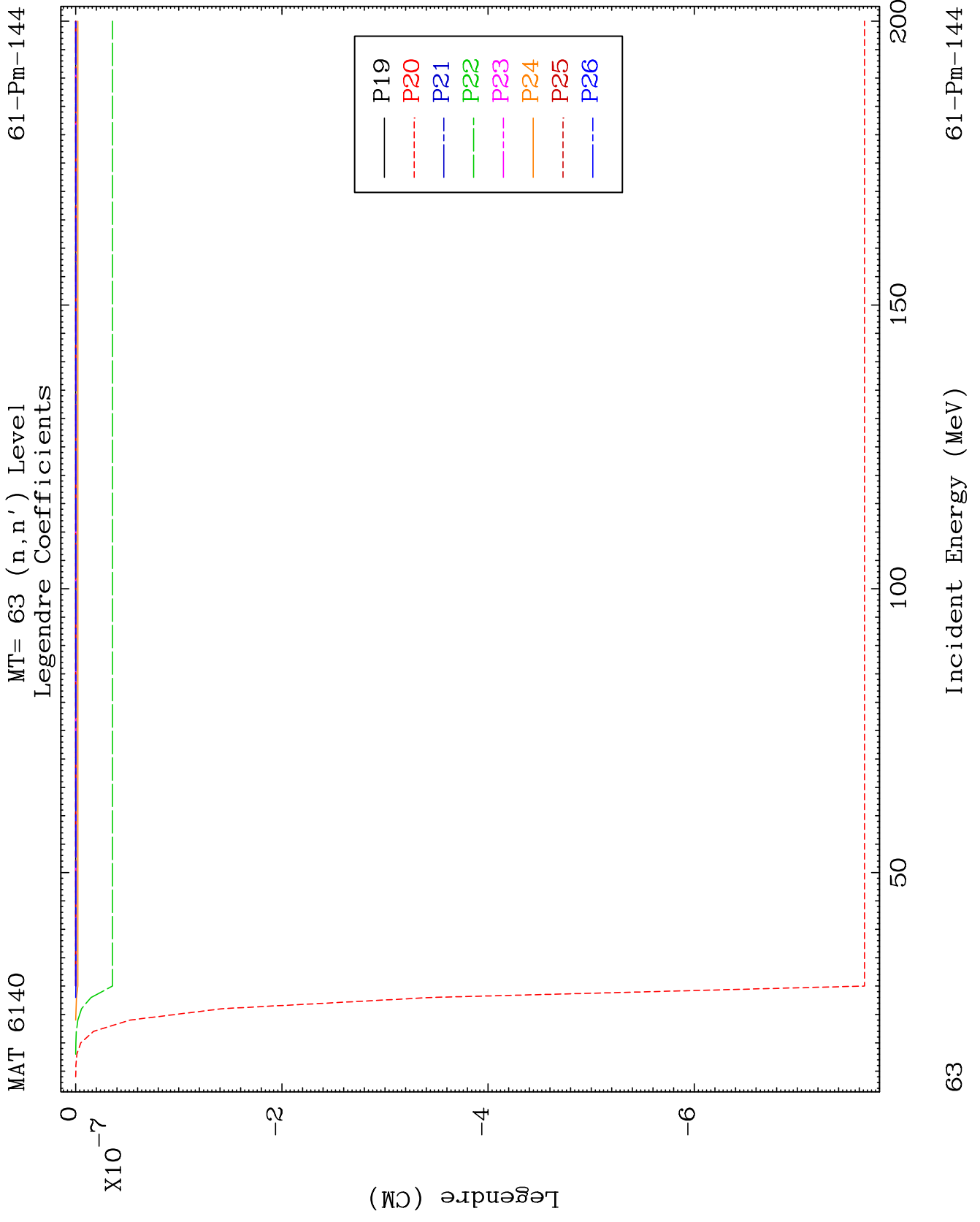
MT= 63 (n,n') Level
Legendre Coefficients

61-Pm-144



62

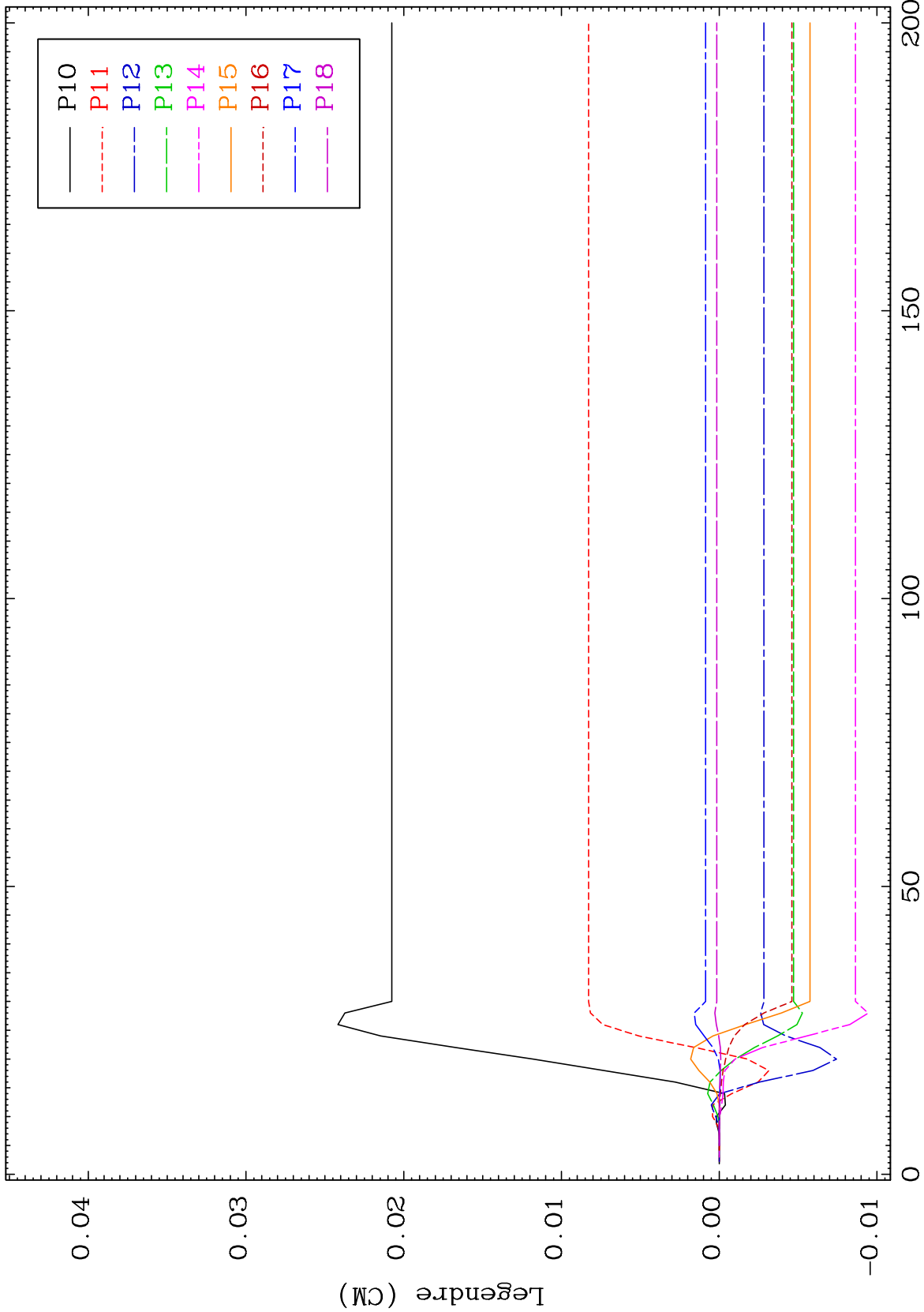
61-Pm-144



MAT 6140

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

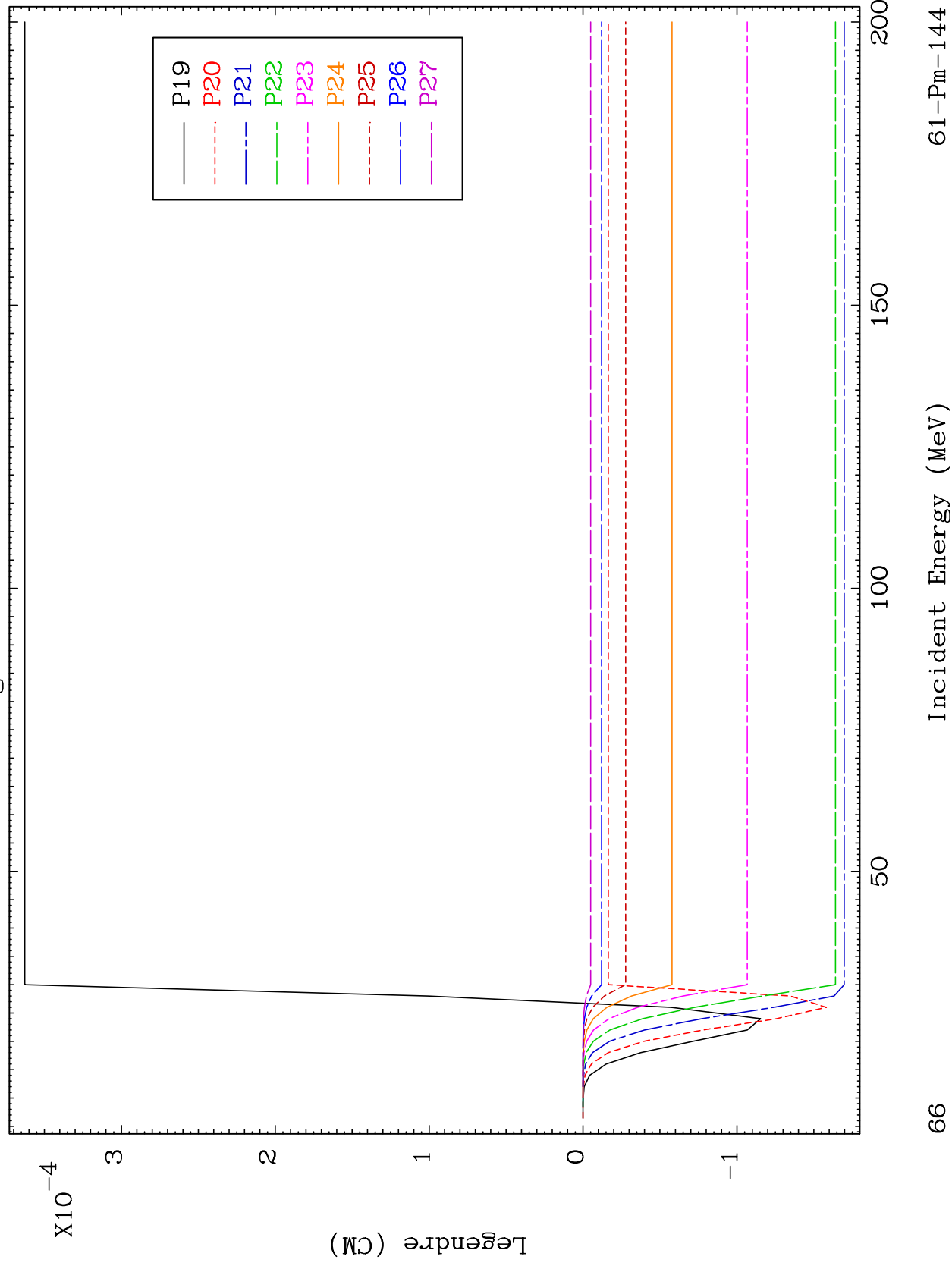
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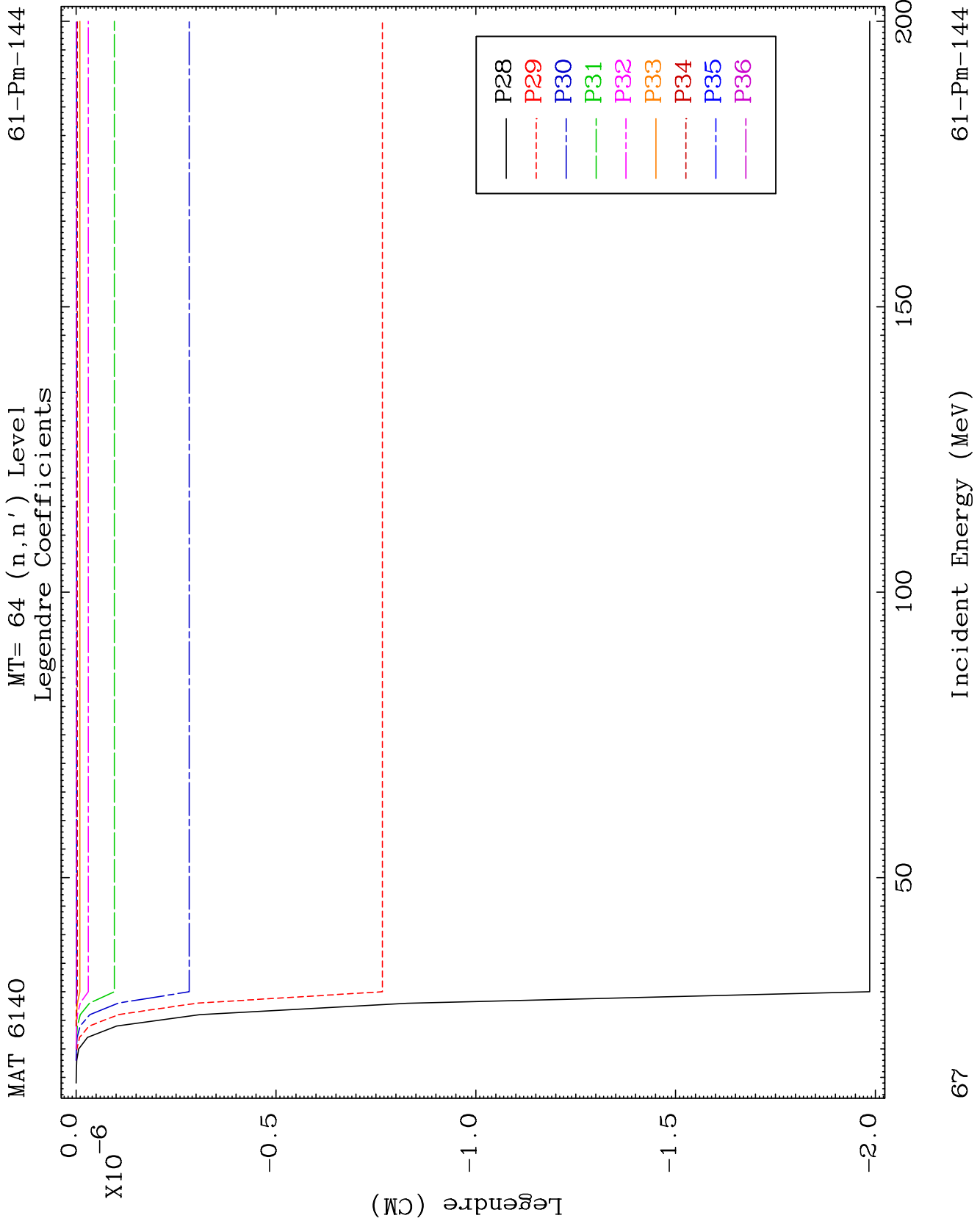


65

Incident Energy (MeV)

61-Pm-144

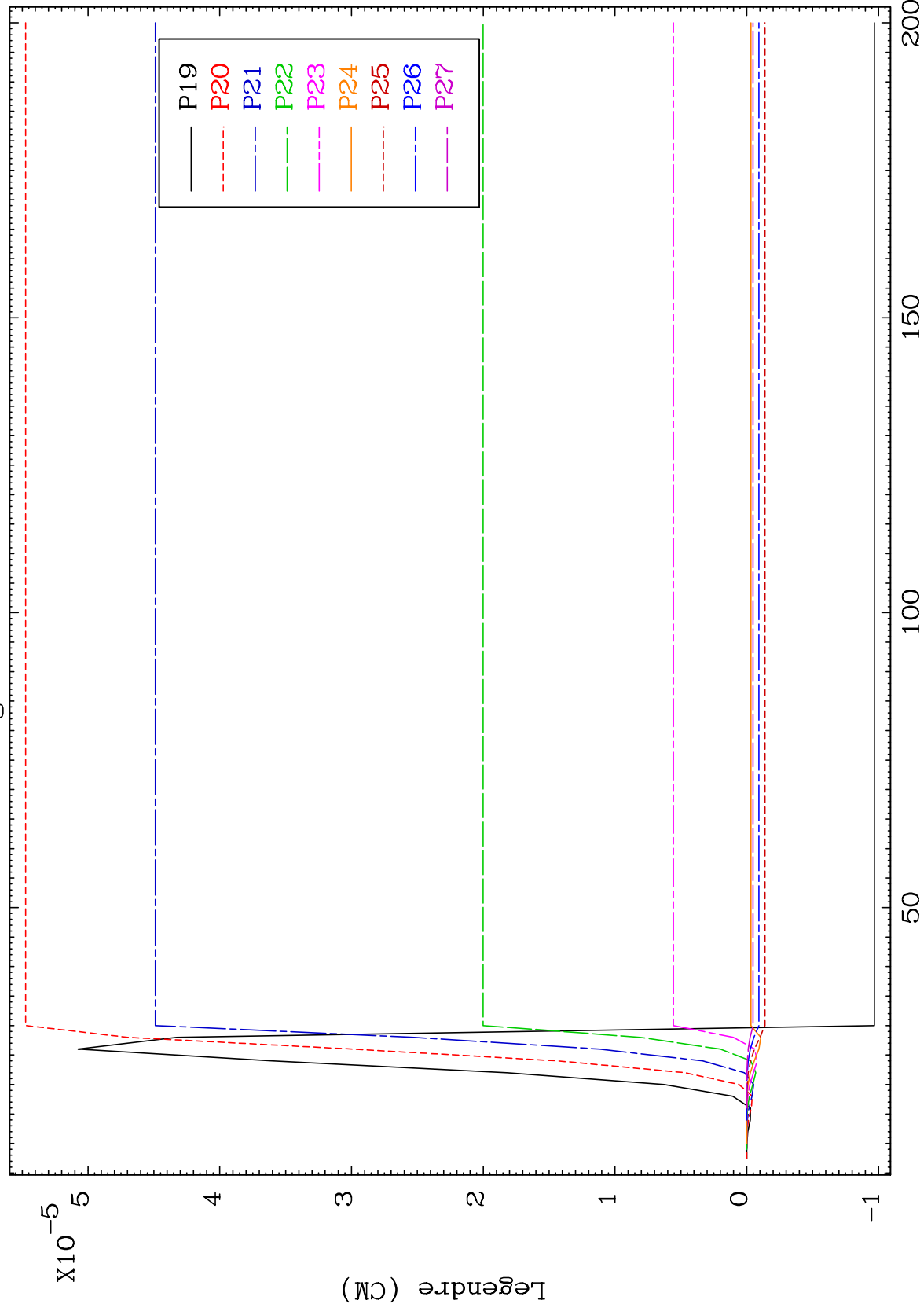




MAT 6140

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

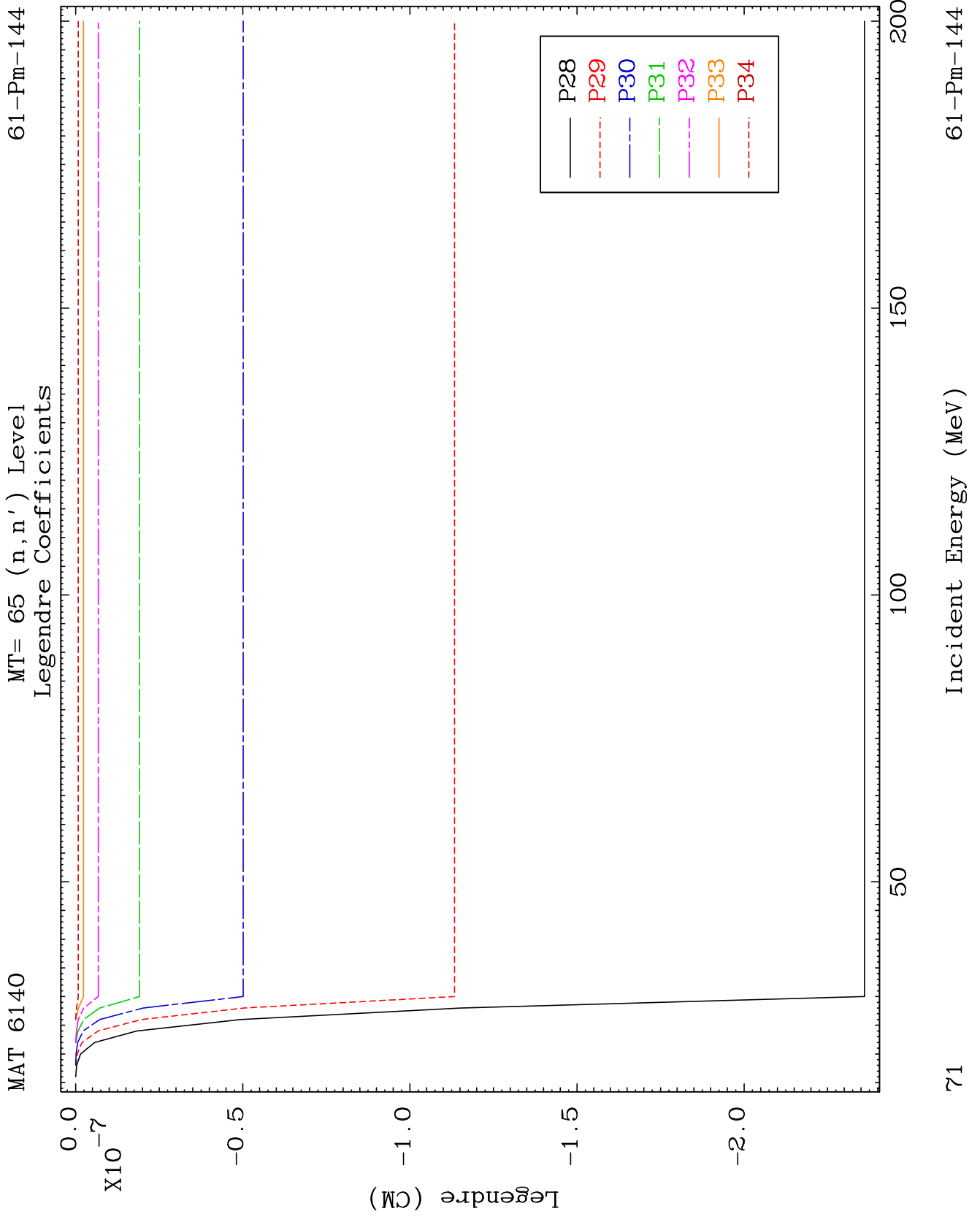
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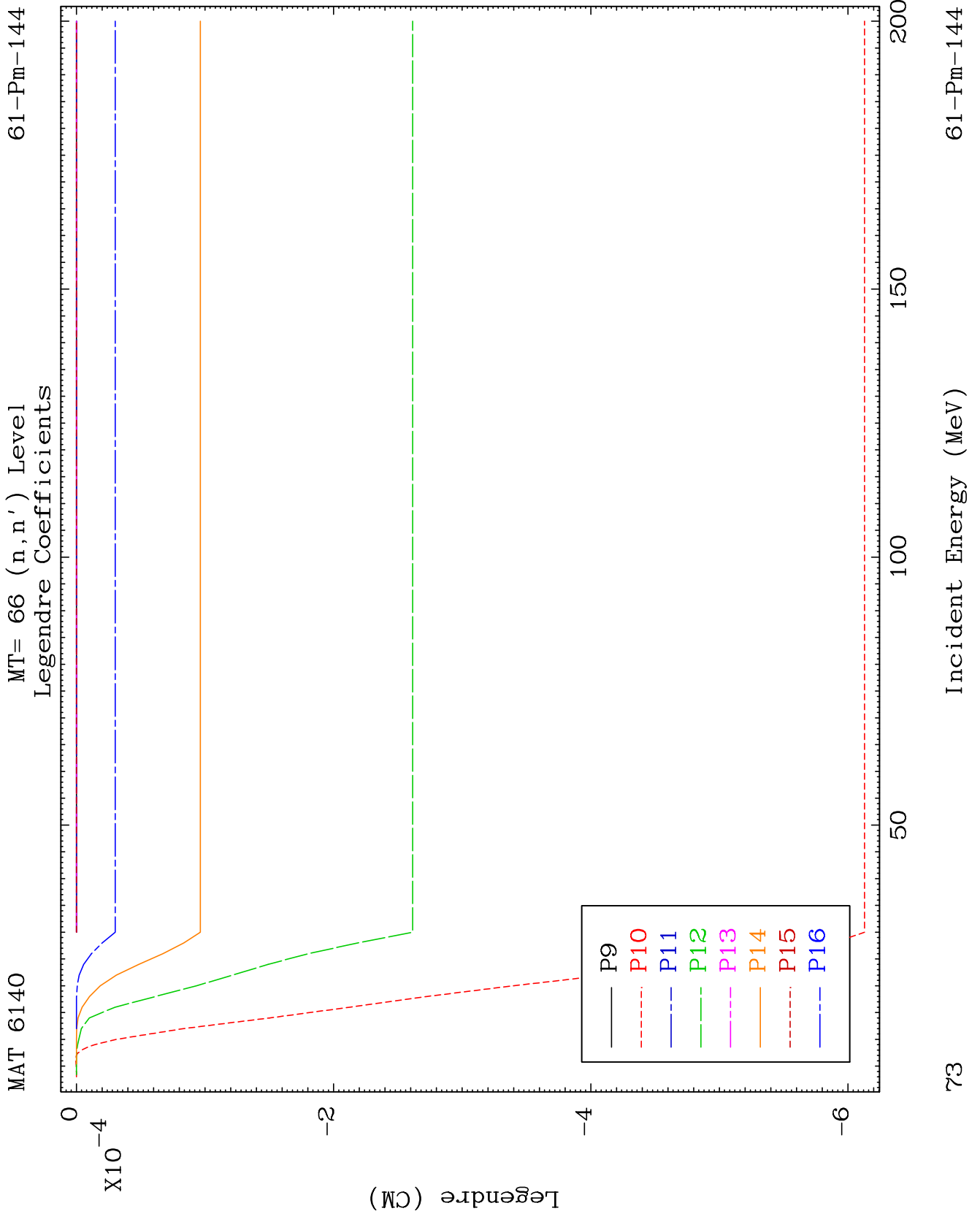


70

Incident Energy (MeV)

61-Pm-144

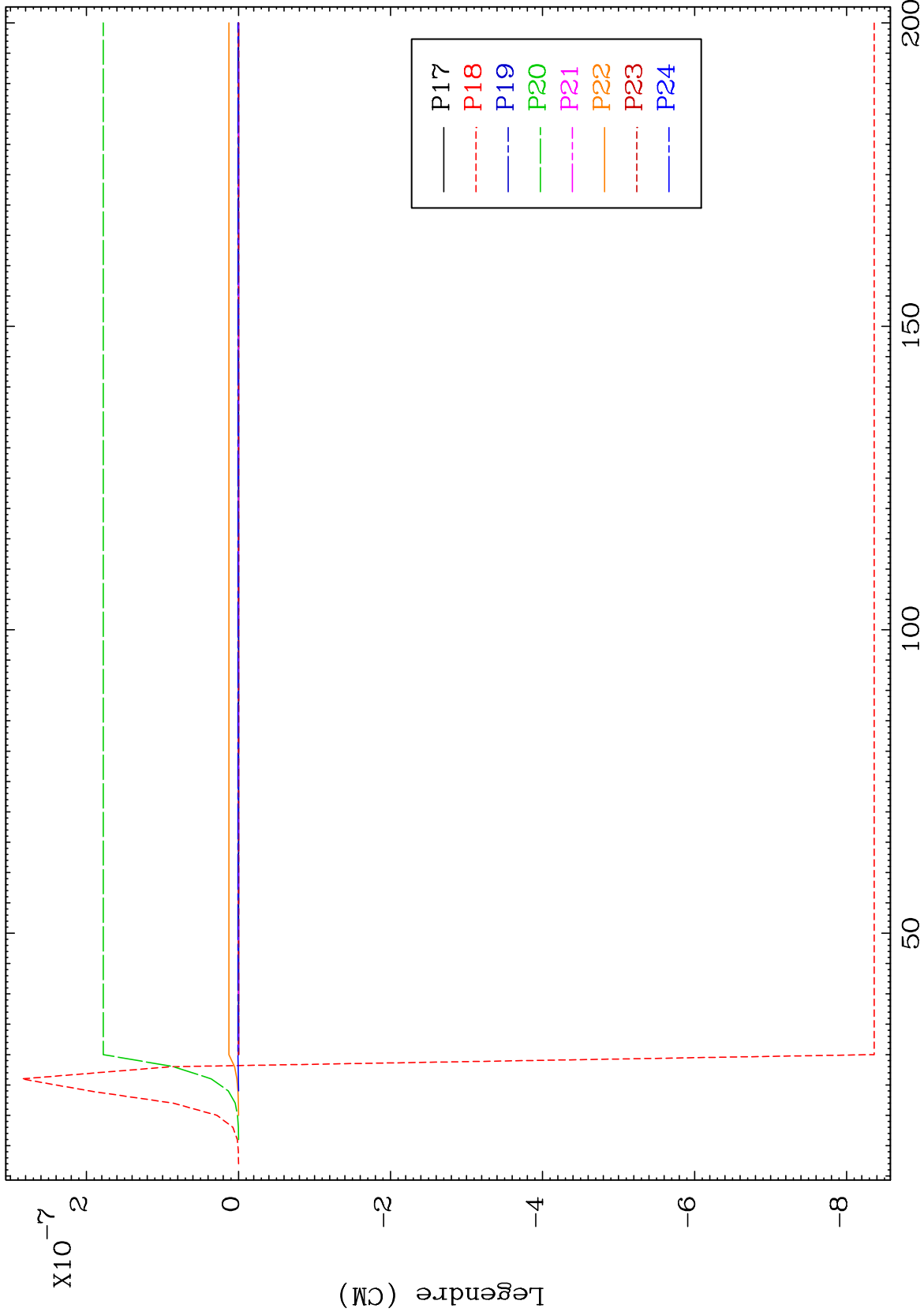




MAT 6140

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

61-Pm-144



74

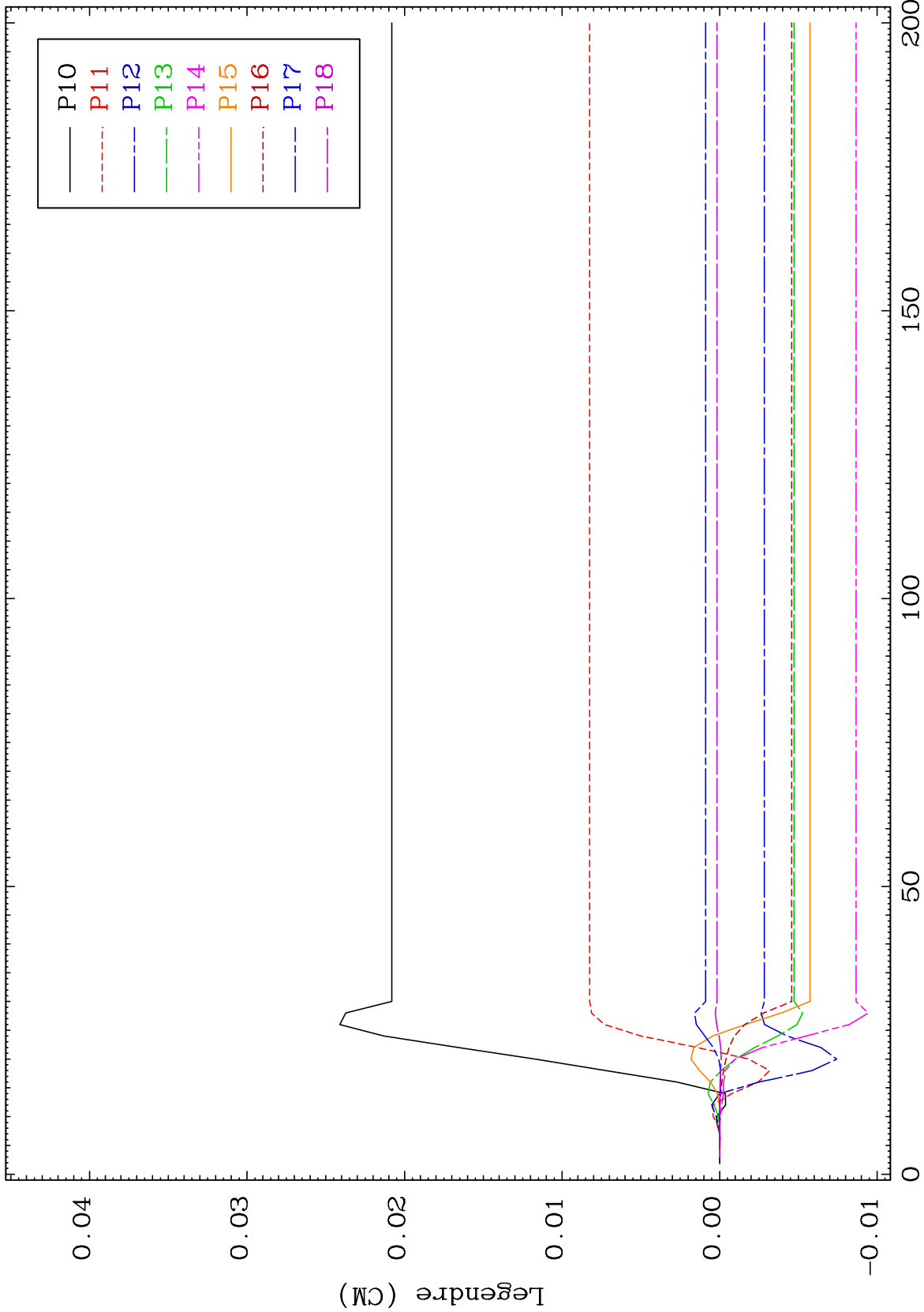
Incident Energy (MeV)

61-Pm-144

MAT 6140

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

61-Pm-144



76

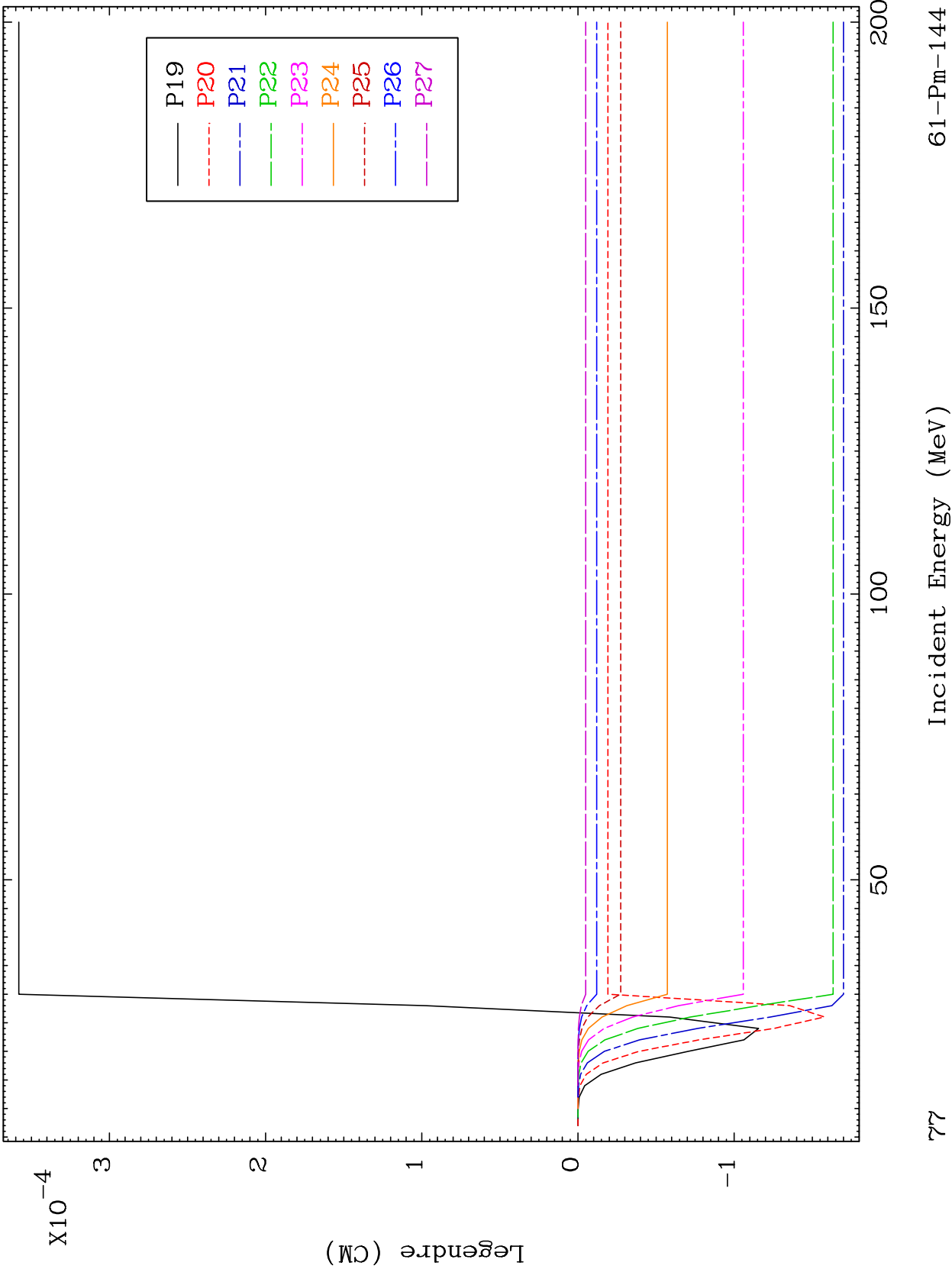
Incident Energy (MeV)

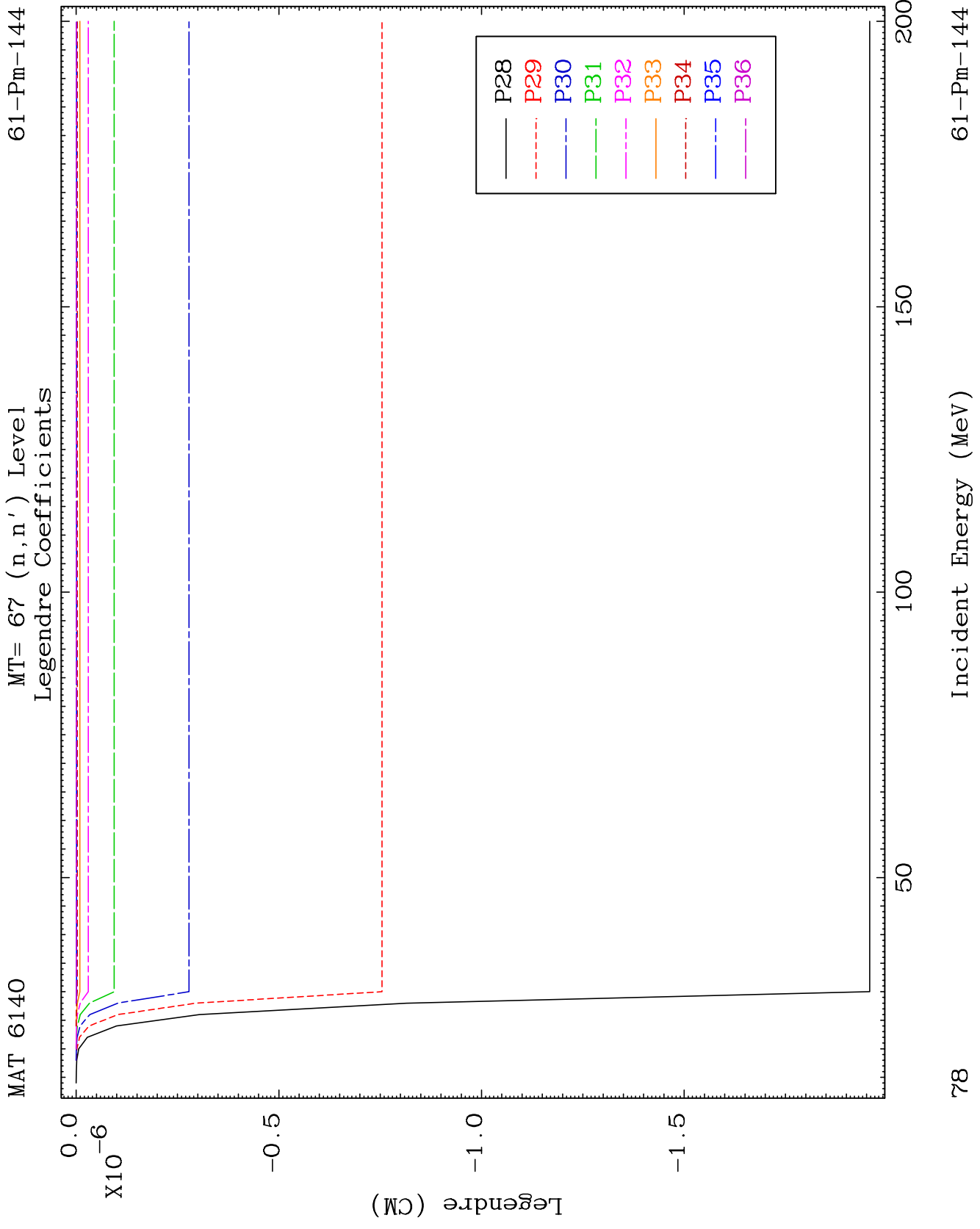
61-Pm-144

MAT 6140

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

61-Pm-144

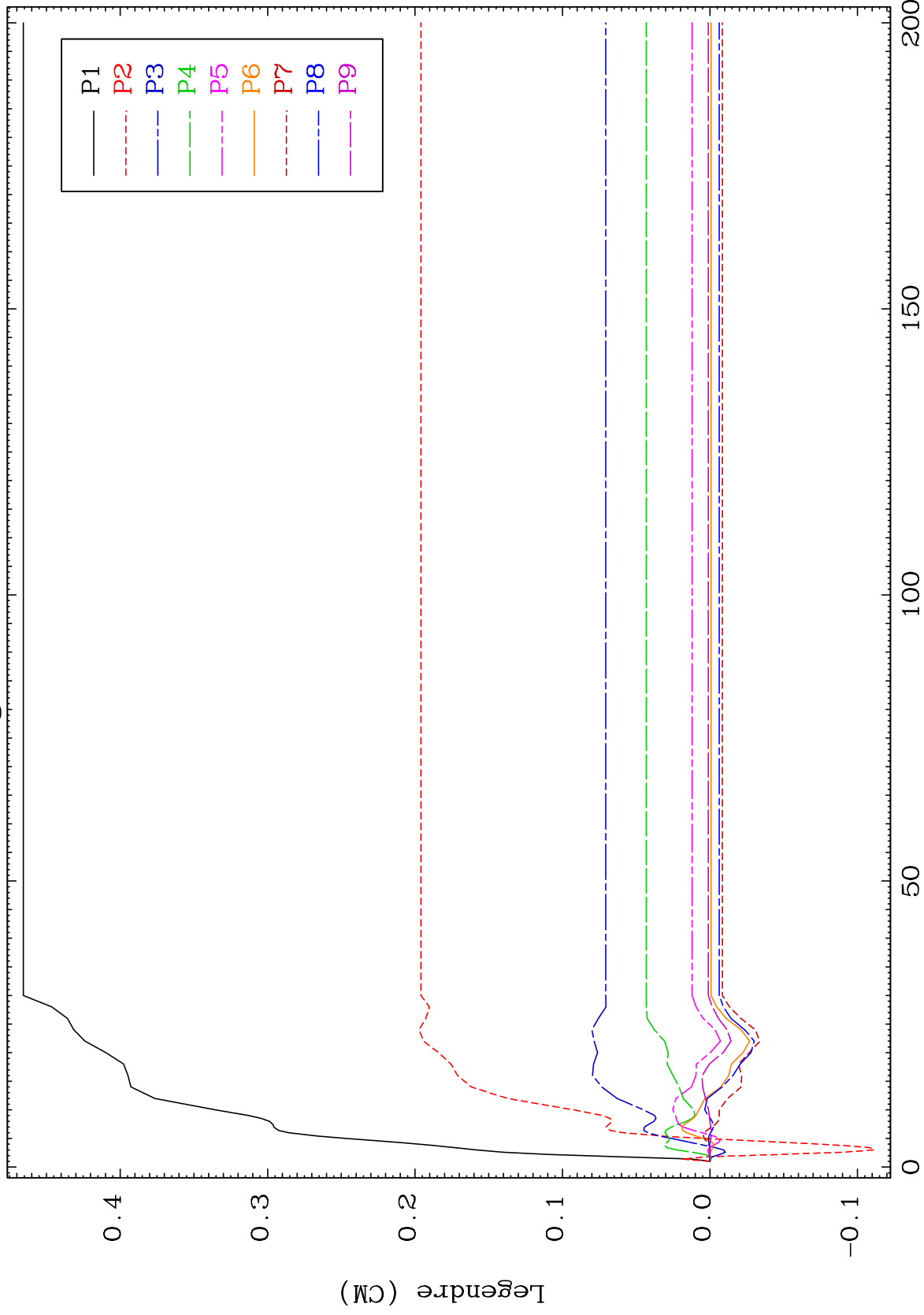




MAT 6140

MT= 68 (n,n') Level
Legendre Coefficients

61-Pm-144



61-Pm-144

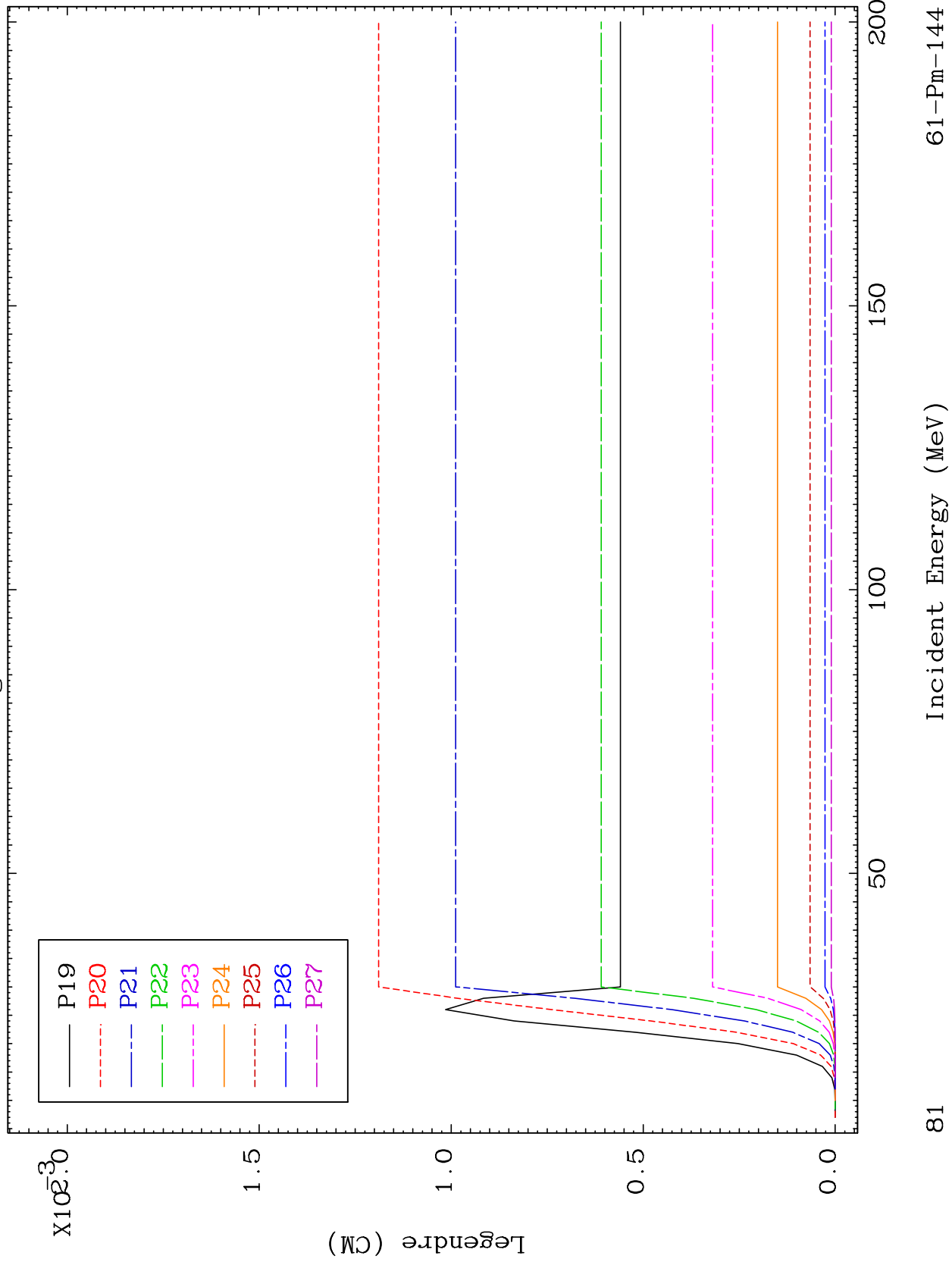
Incident Energy (MeV)

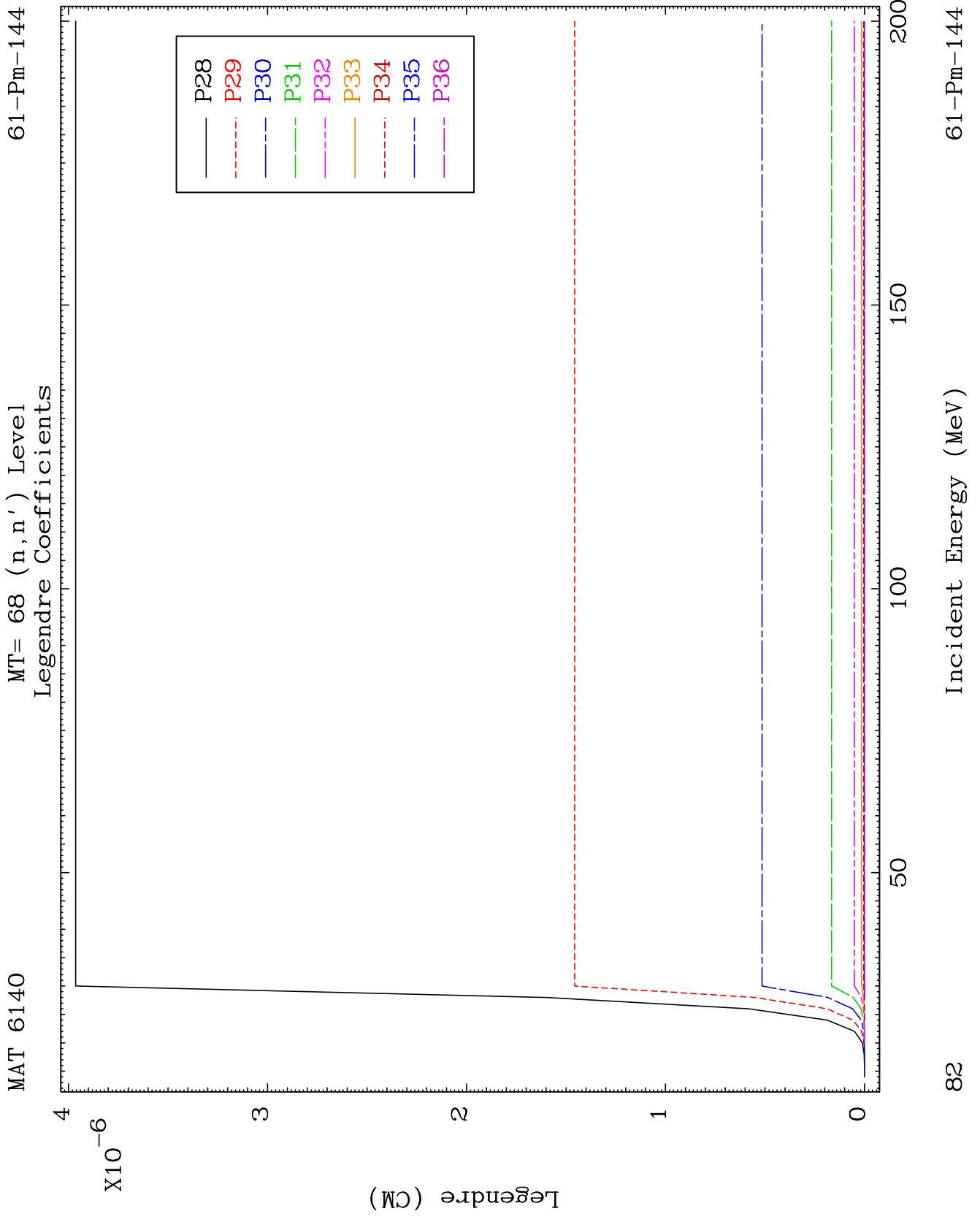
79

MAT 6140

MT= 68 (n,n') Level
Legendre Coefficients

61-Pm-144

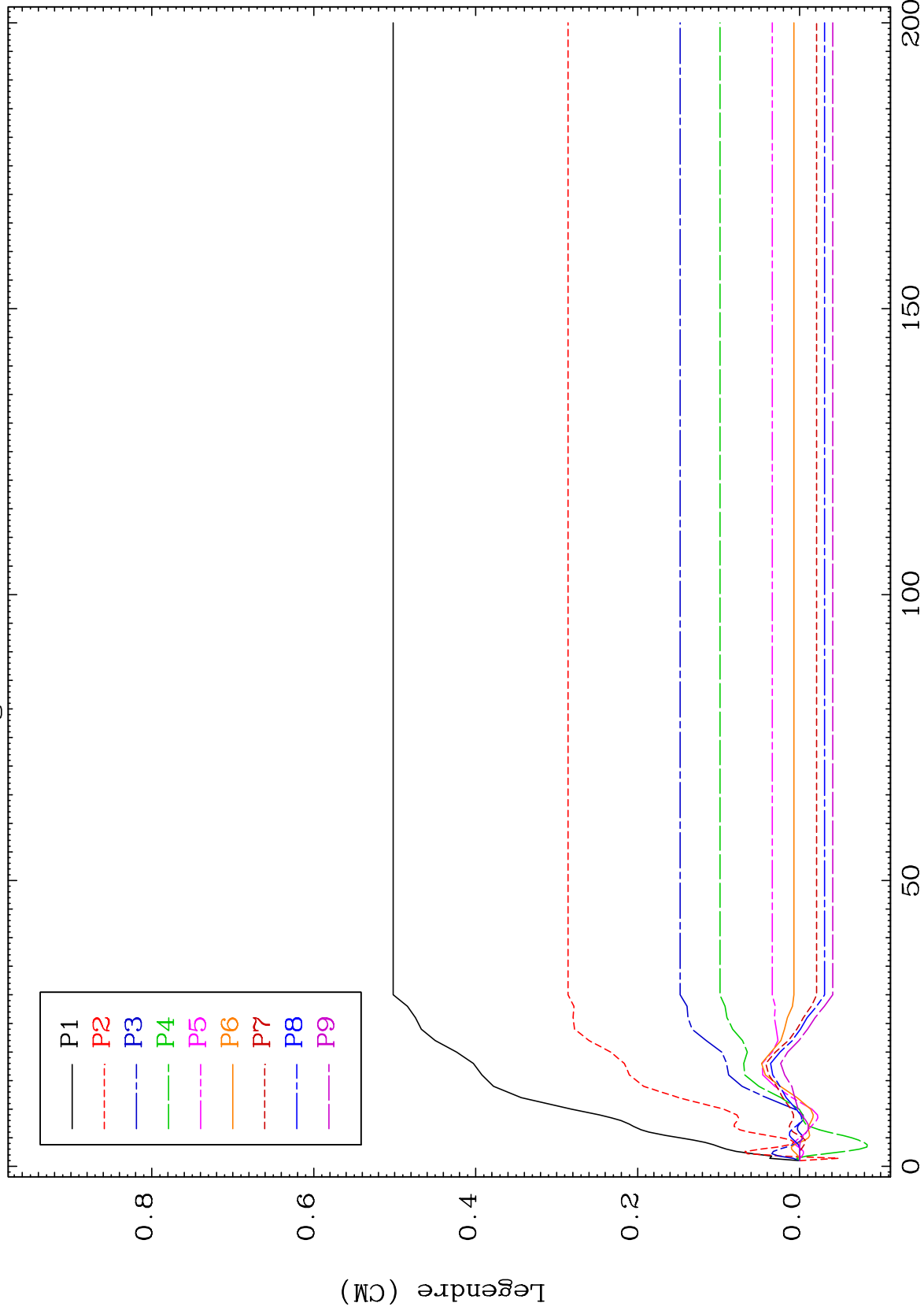




MAT 6140

MT= 69 (n,n') Level
Legendre Coefficients

61-Pm-144



83

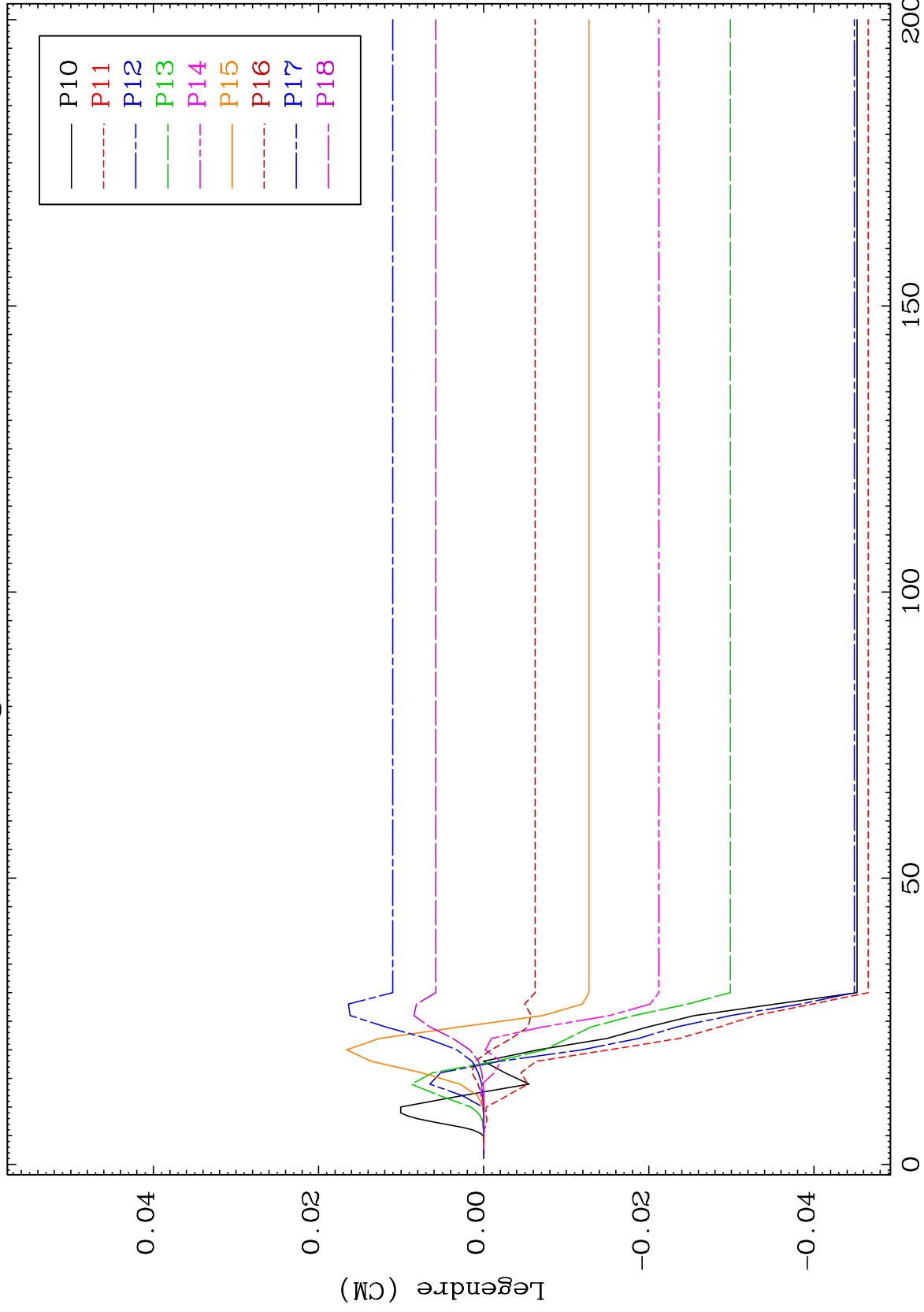
Incident Energy (MeV)

61-Pm-144

MAT 6140

MT= 69 (n,n') Level
Legendre Coefficients

61-Pm-144



84

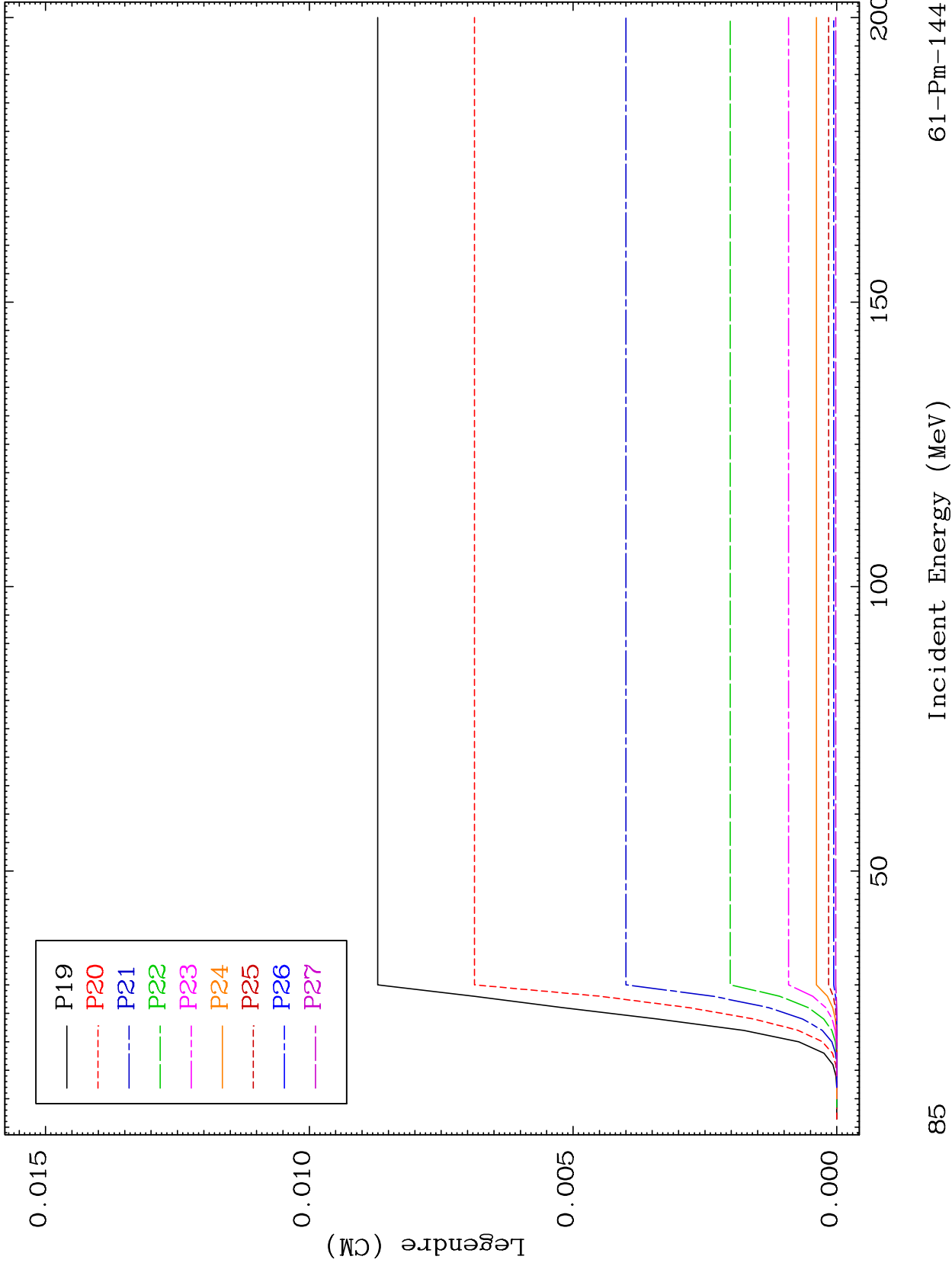
Incident Energy (MeV)

61-Pm-144

MAT 6140

MT= 69 (n,n') Level
Legendre Coefficients

61-Pm-144



85

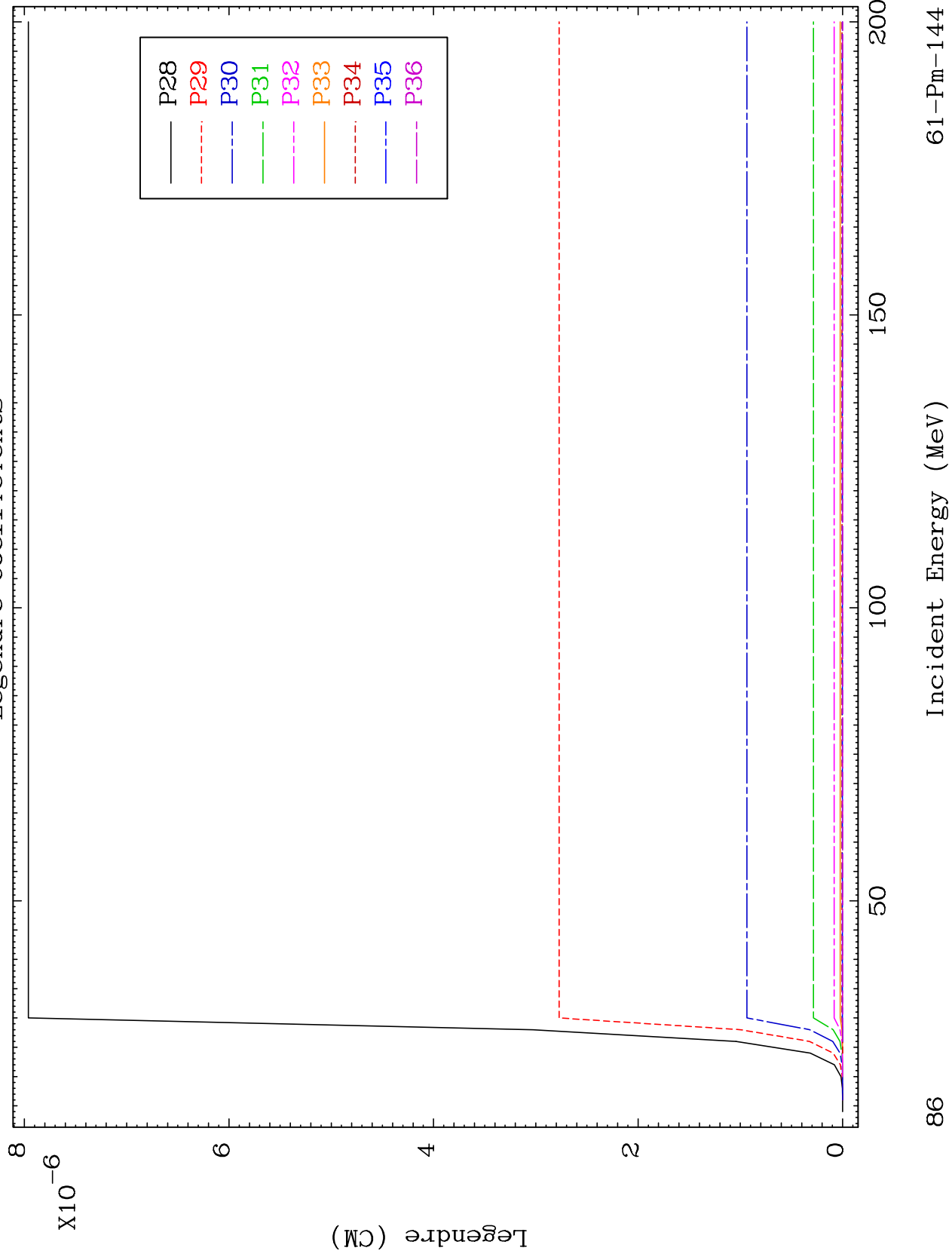
Incident Energy (MeV)

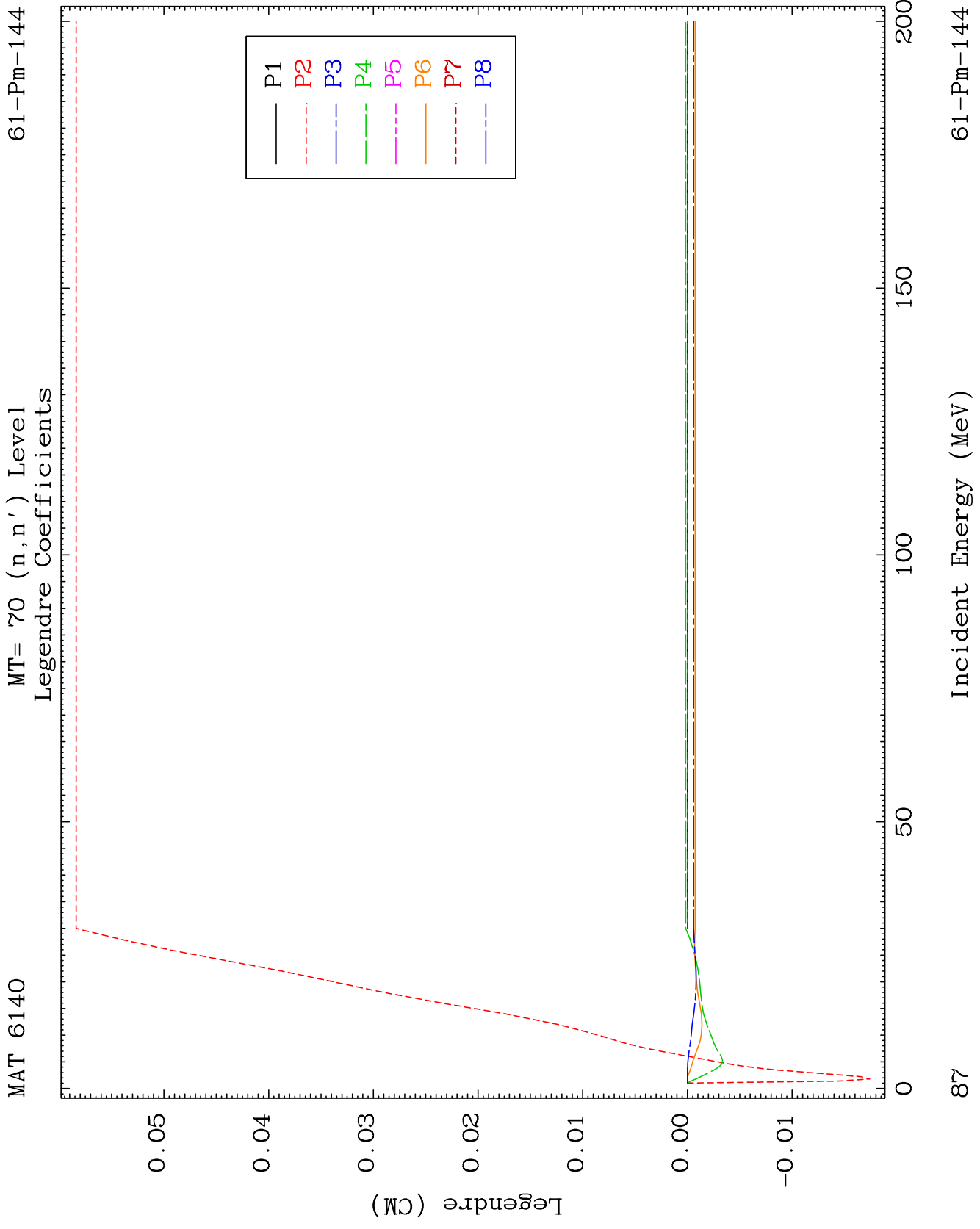
61-Pm-144

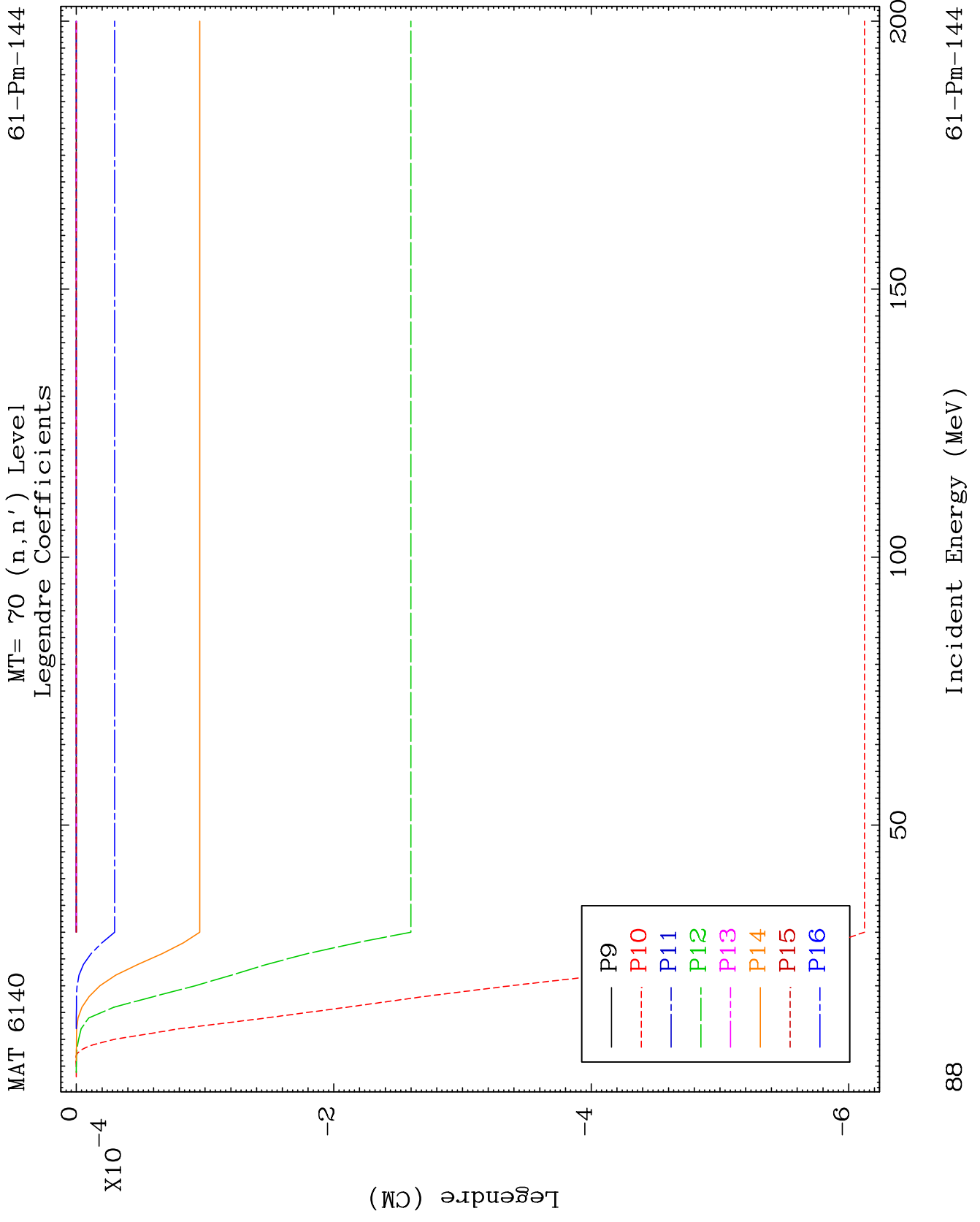
MAT 6140

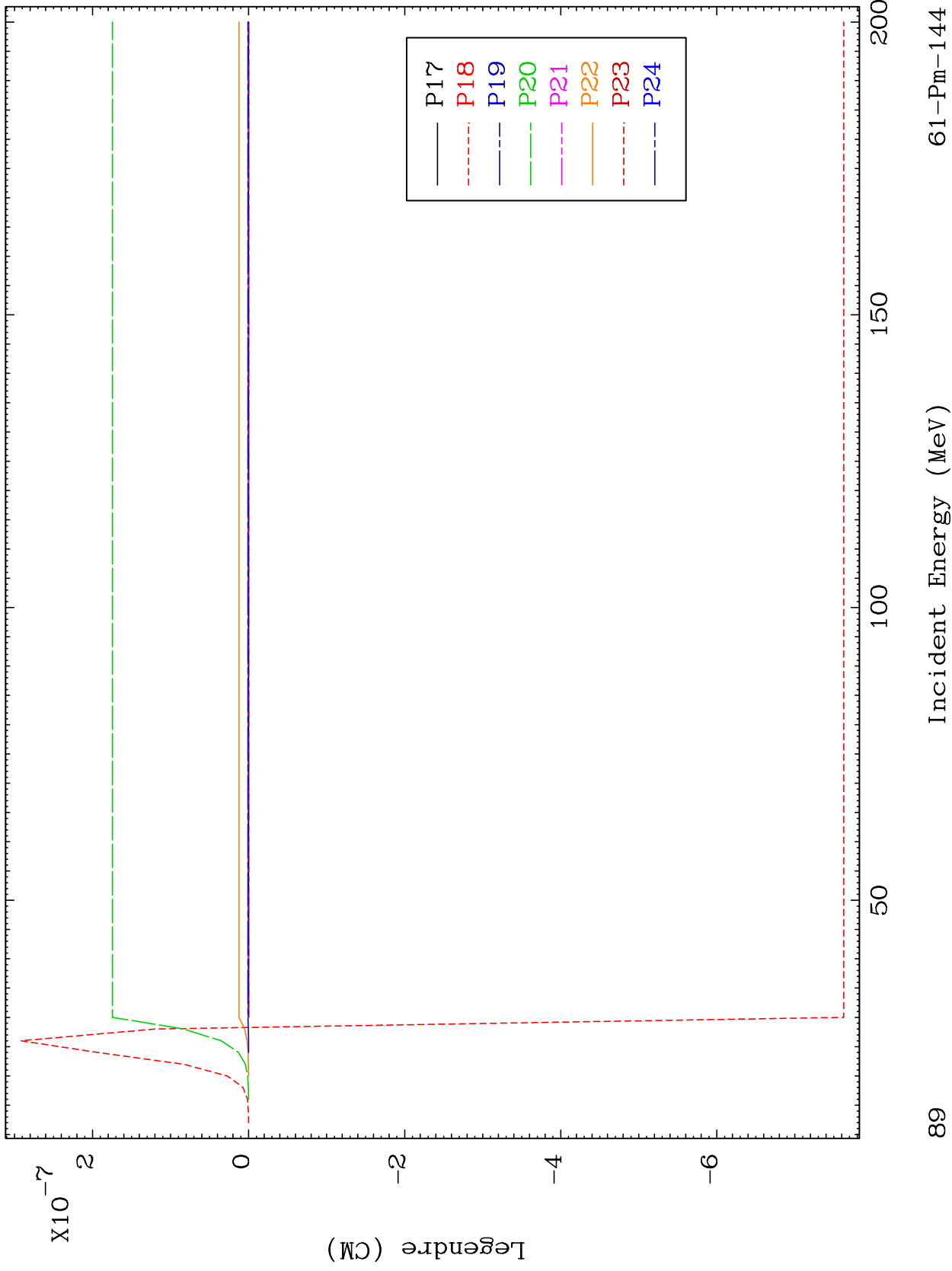
MT= 69 (n,n') Level
Legendre Coefficients

61-Pm-144





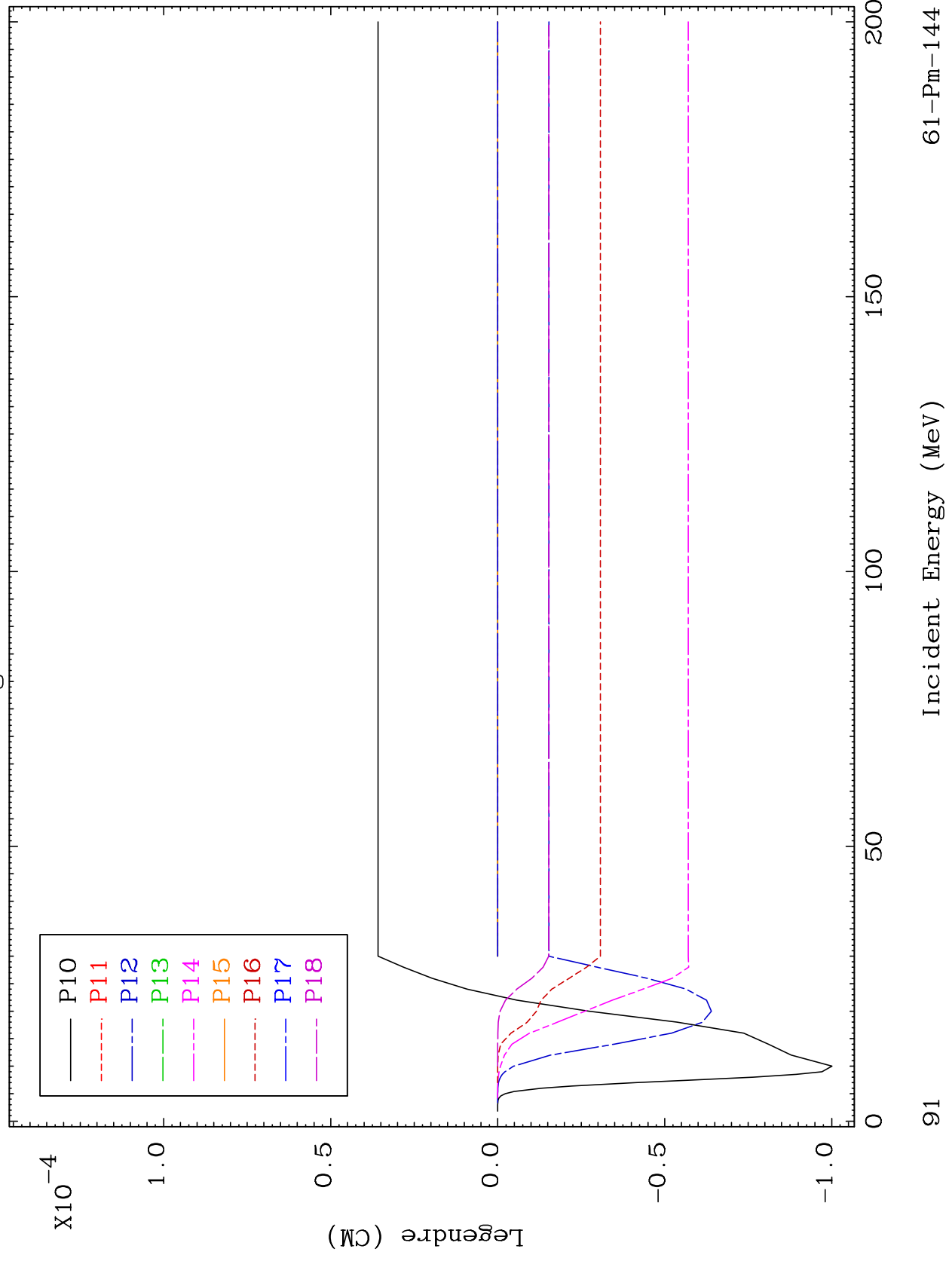




MAT 6140

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

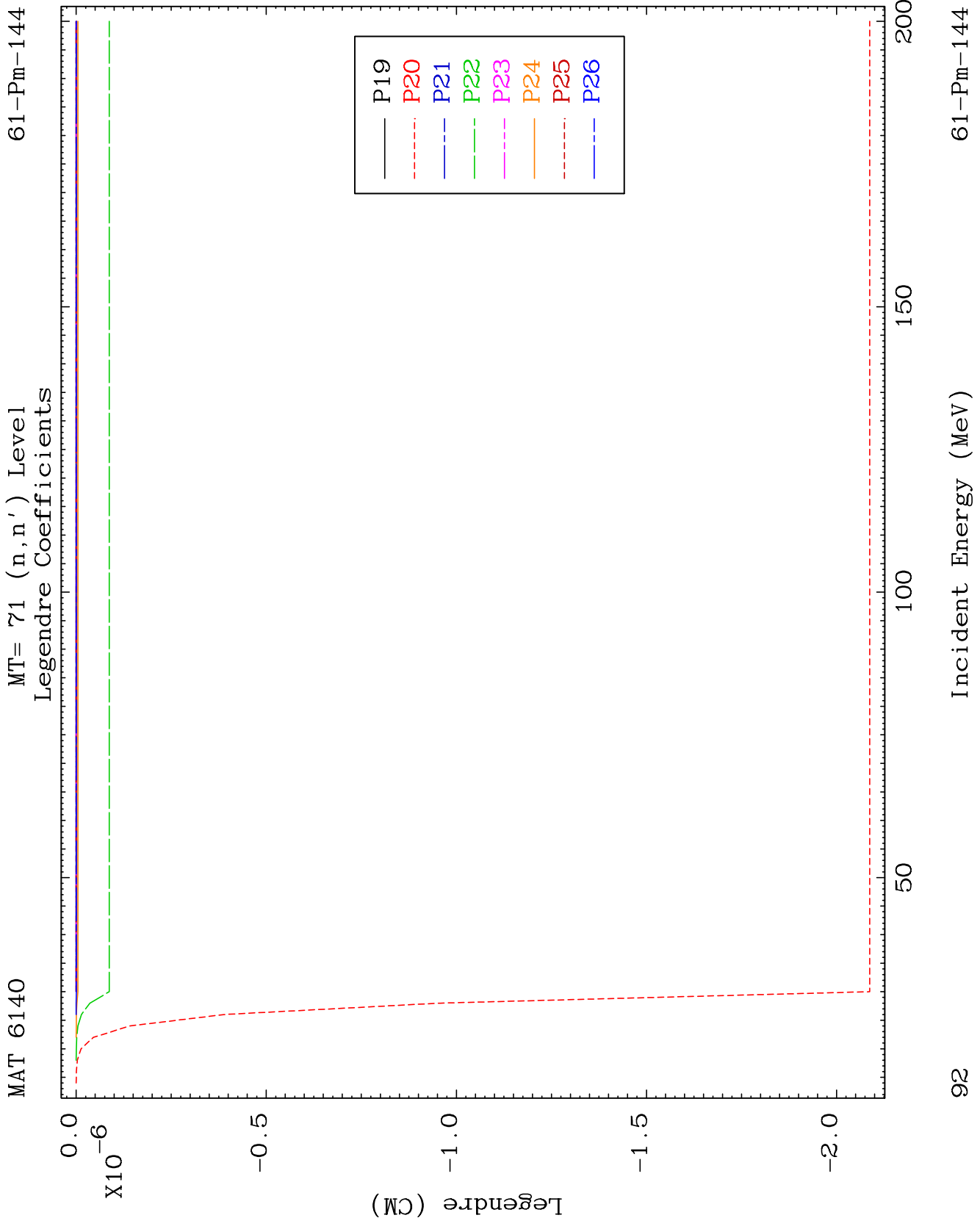
61-Pm-144

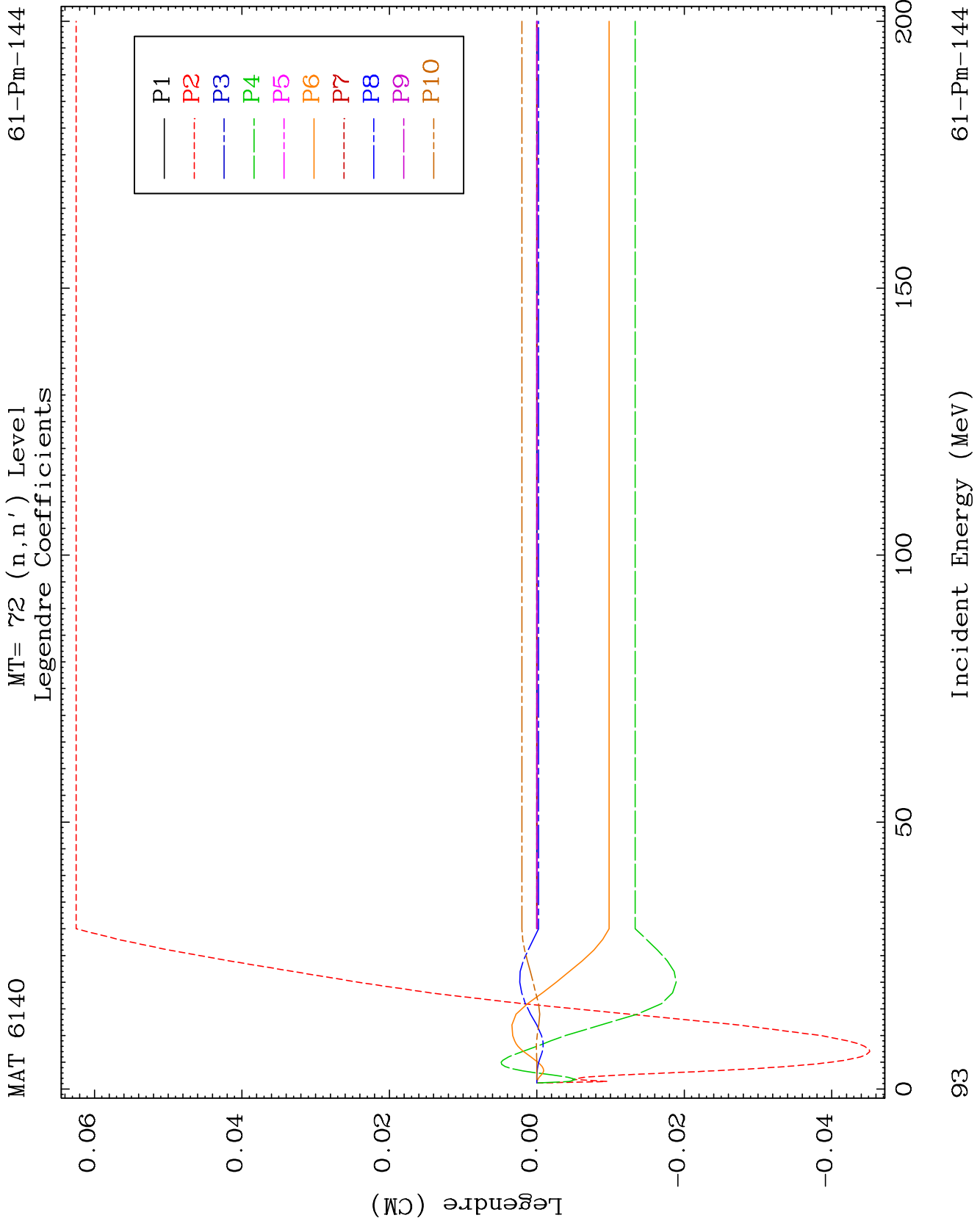


91

Incident Energy (MeV)

61-Pm-144

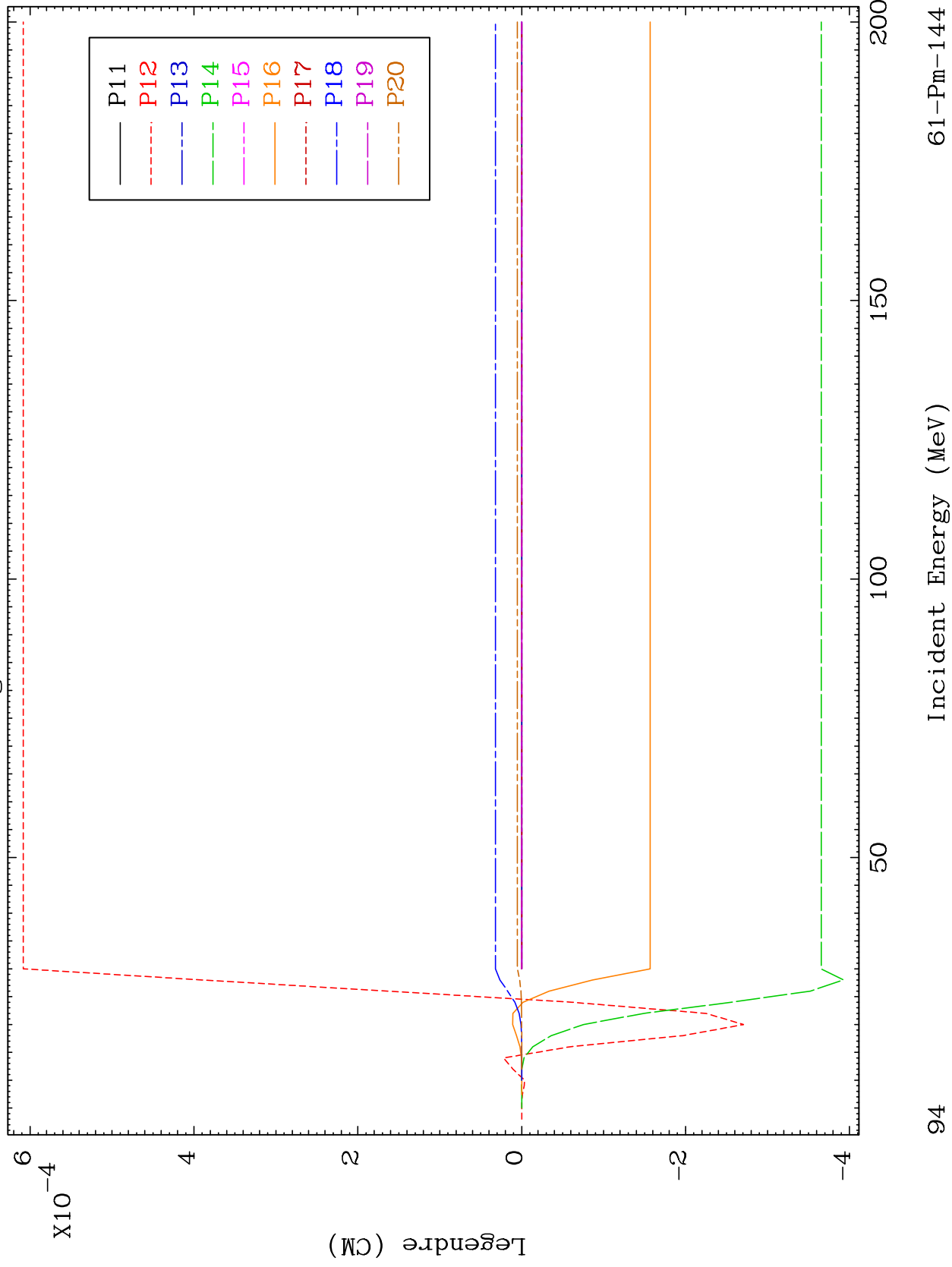




MAT 6140

MT= 72 (n,n') Level
Legendre Coefficients

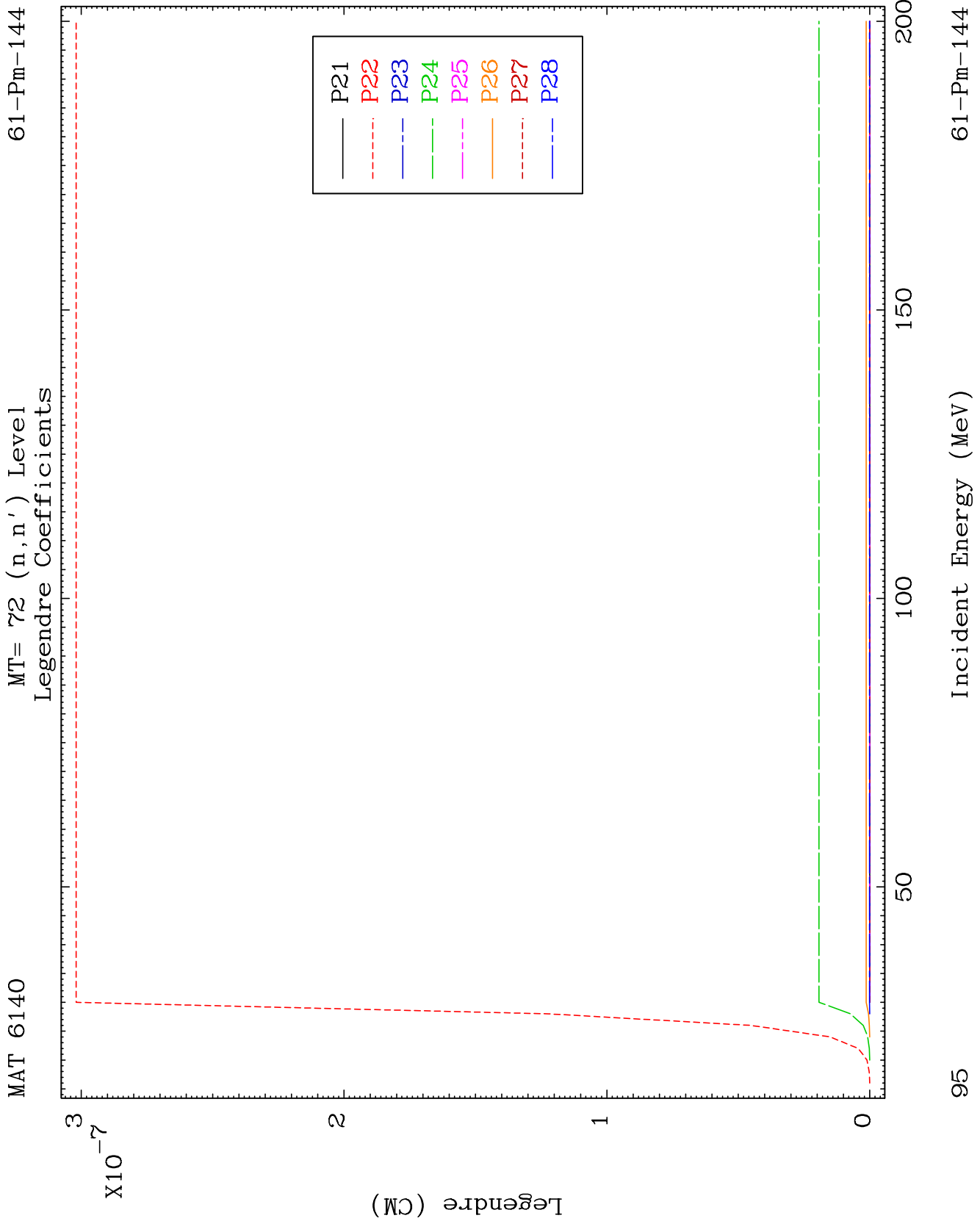
61-Pm-144



94

Incident Energy (MeV)

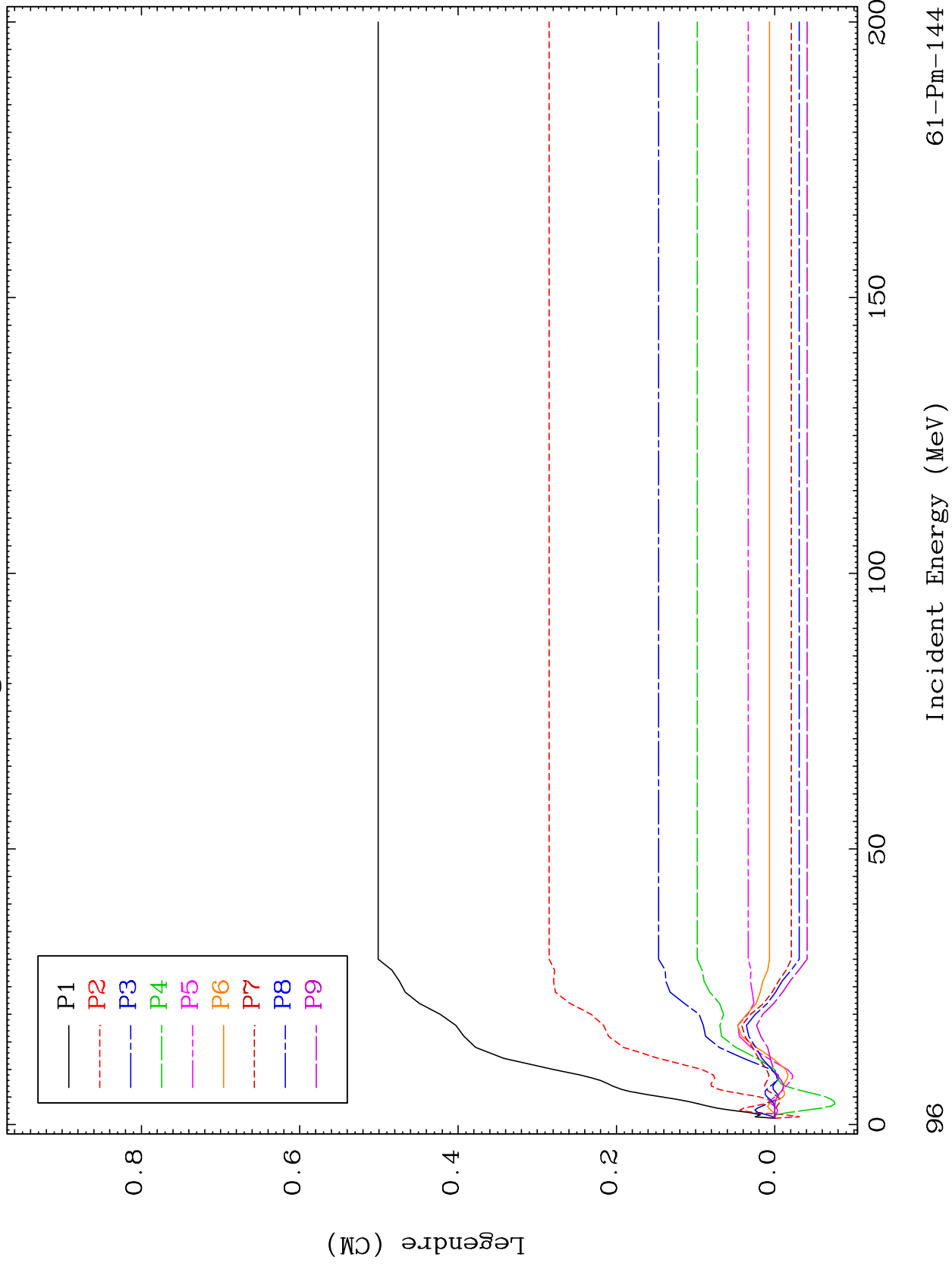
61-Pm-144



MAT 6140

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

61-Pm-144



61-Pm-144

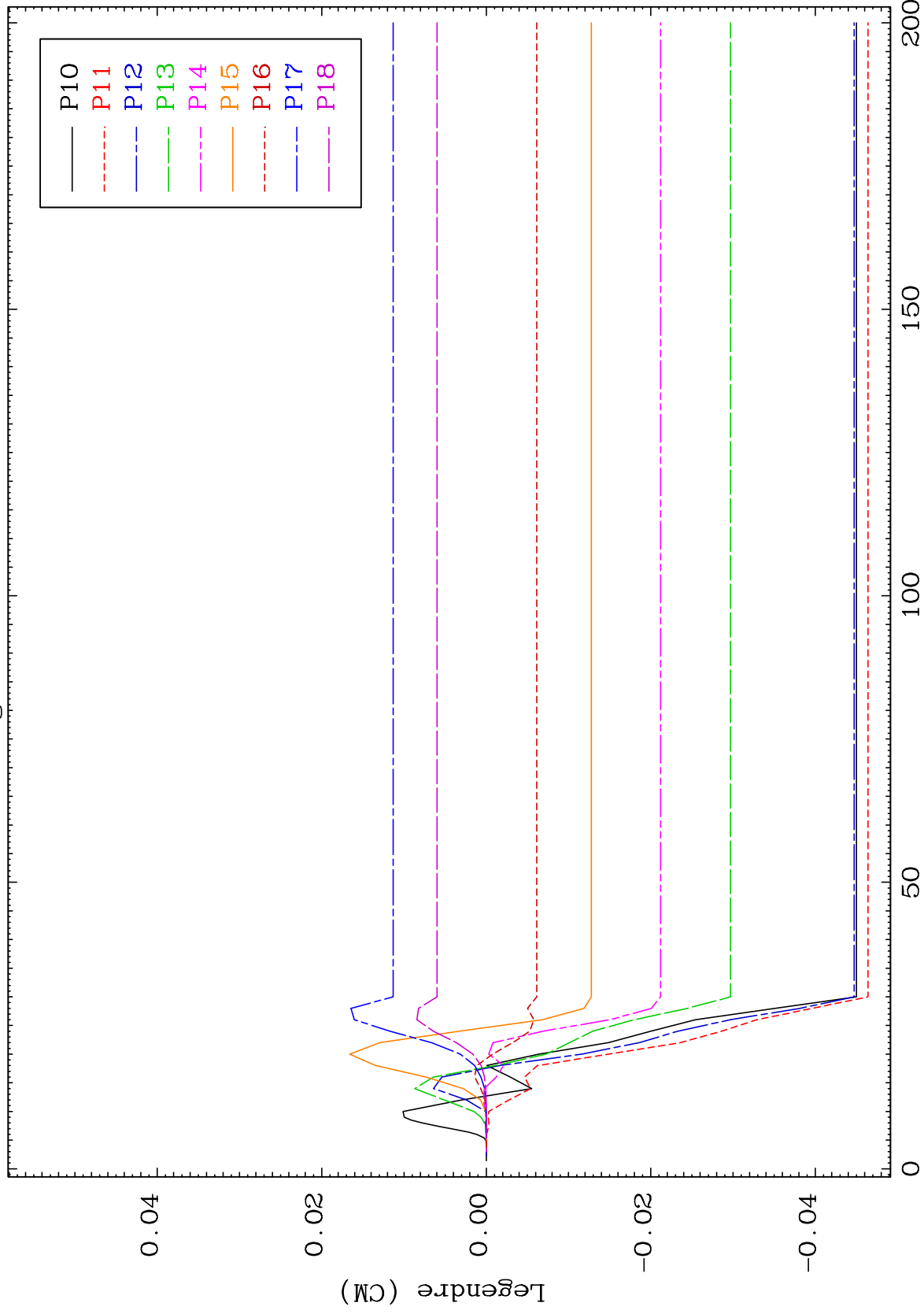
Incident Energy (MeV)

96

MAT 6140

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

61-Pm-144



97

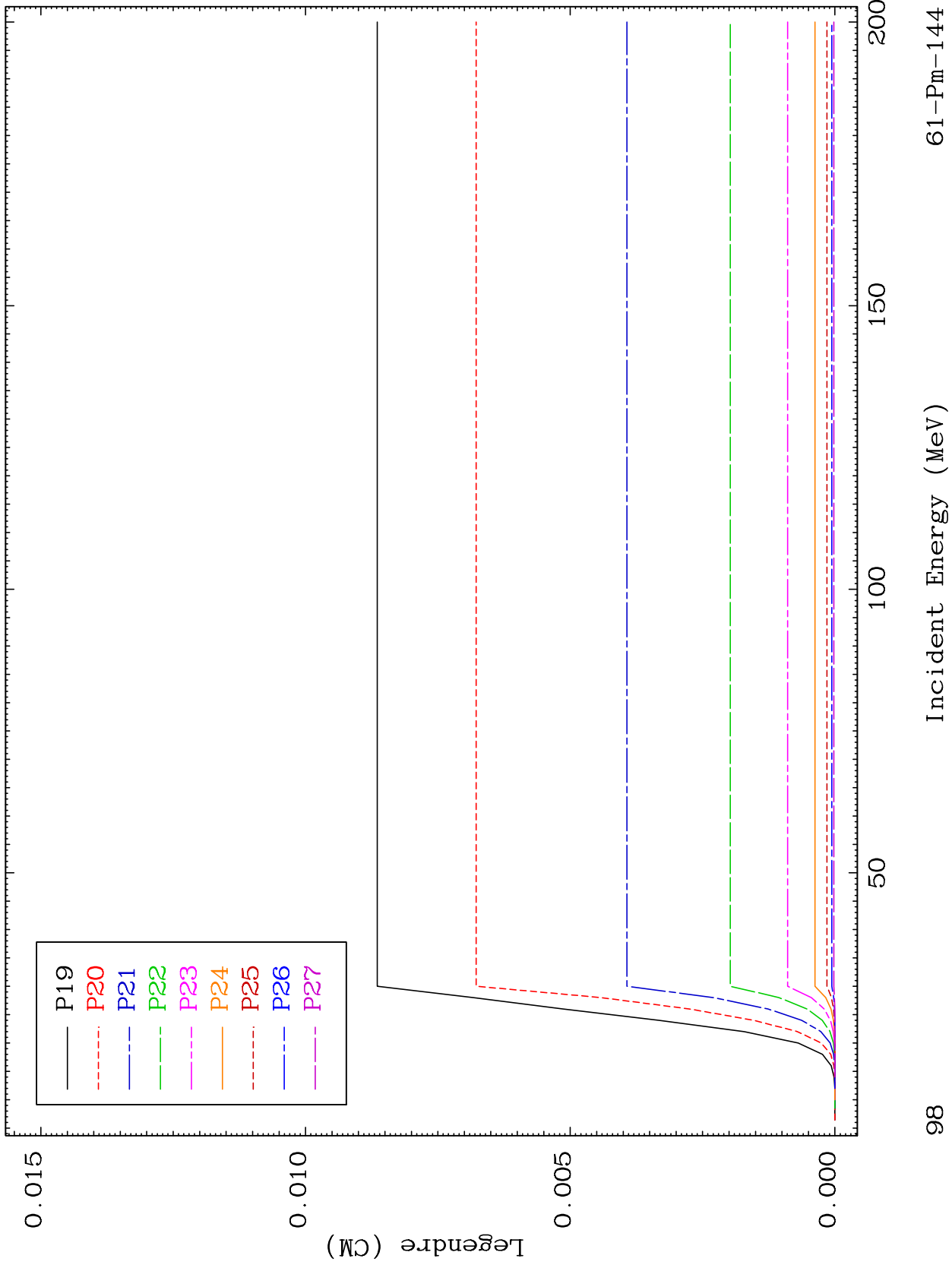
Incident Energy (MeV)

61-Pm-144

MAT 6140

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

61-Pm-144



98

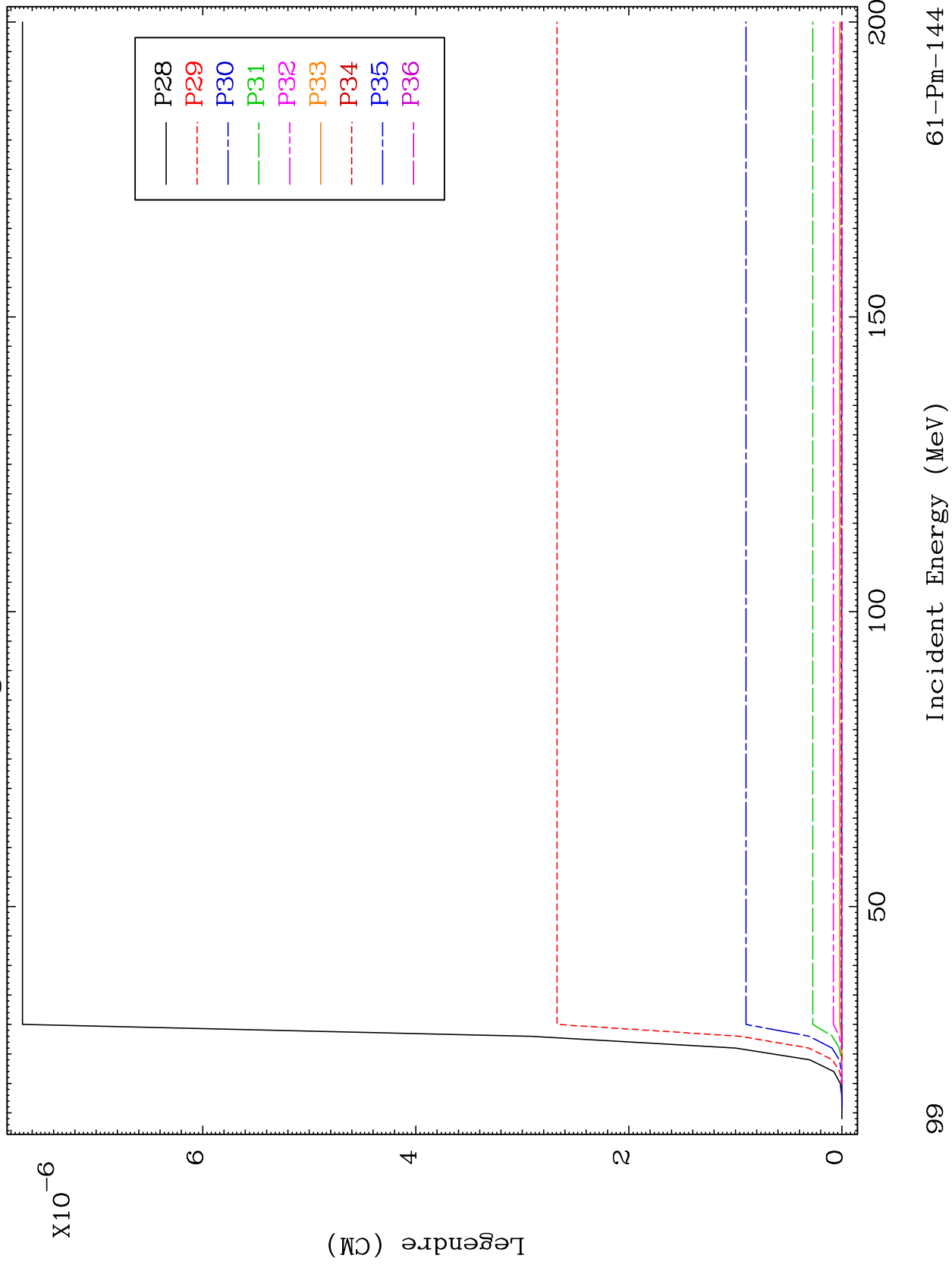
Incident Energy (MeV)

61-Pm-144

MAT 6140

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

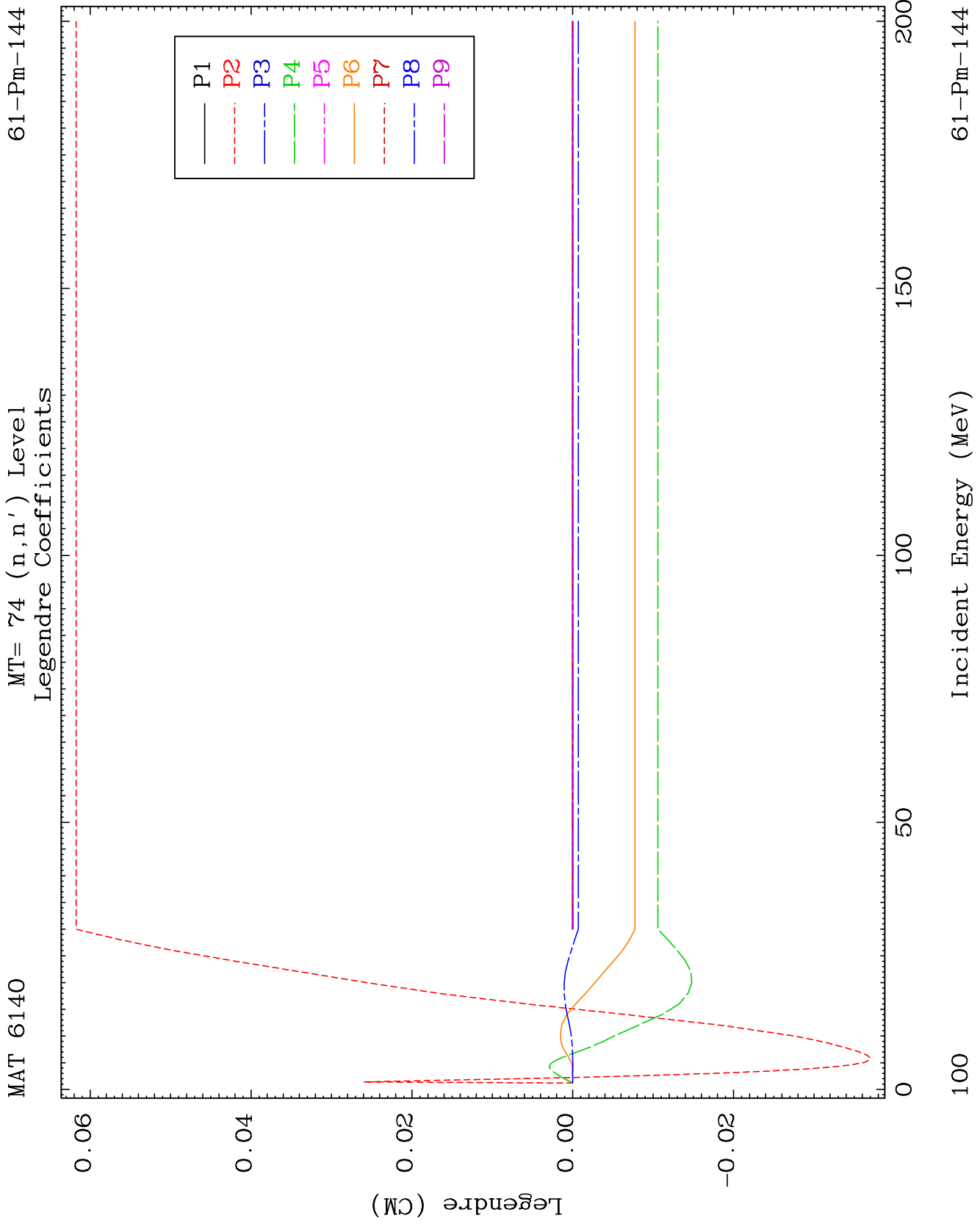
61-Pm-144



99

Incident Energy (MeV)

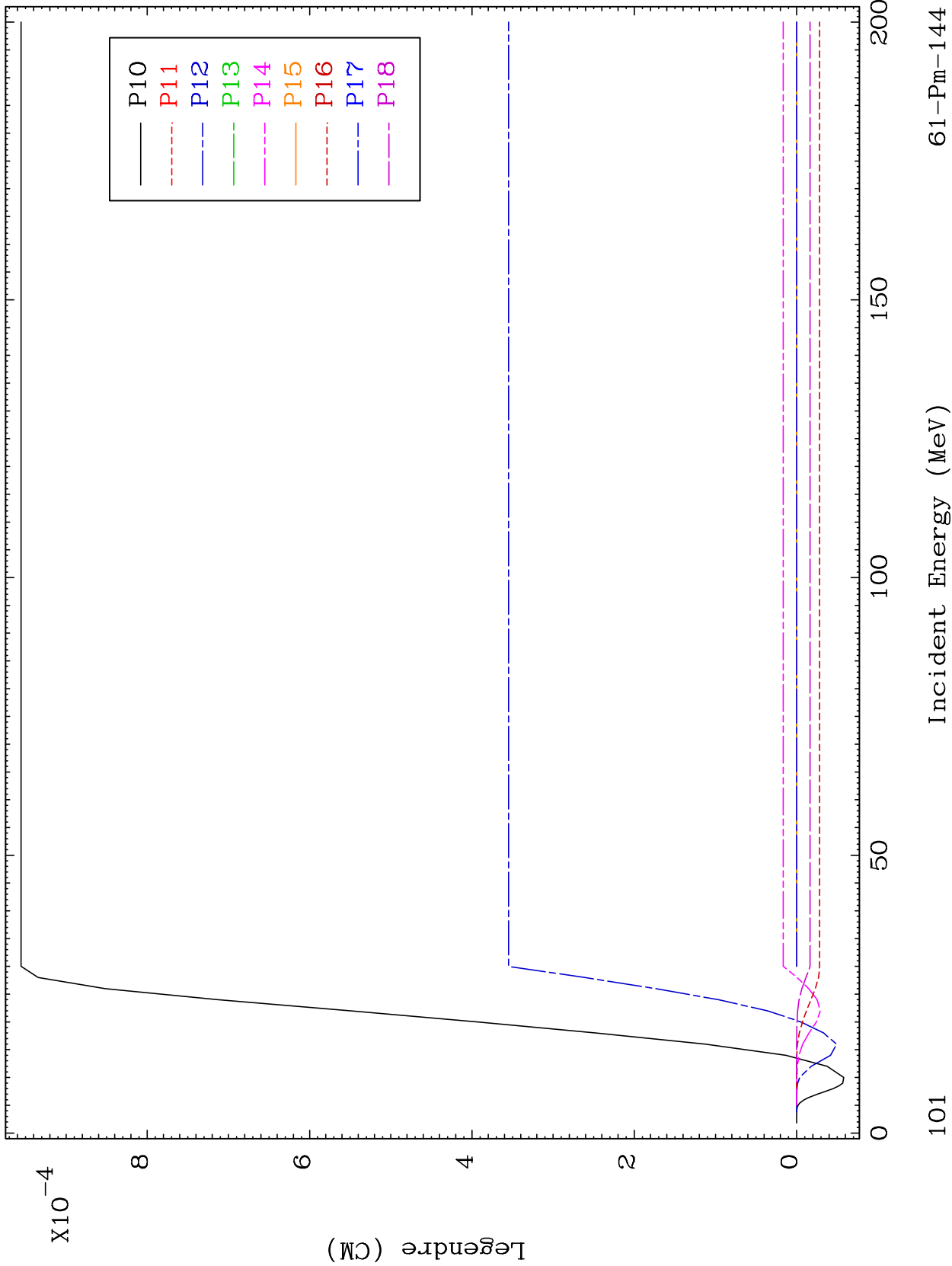
61-Pm-144



MAT 6140

MT= 74 (n,n') Level
Legendre Coefficients

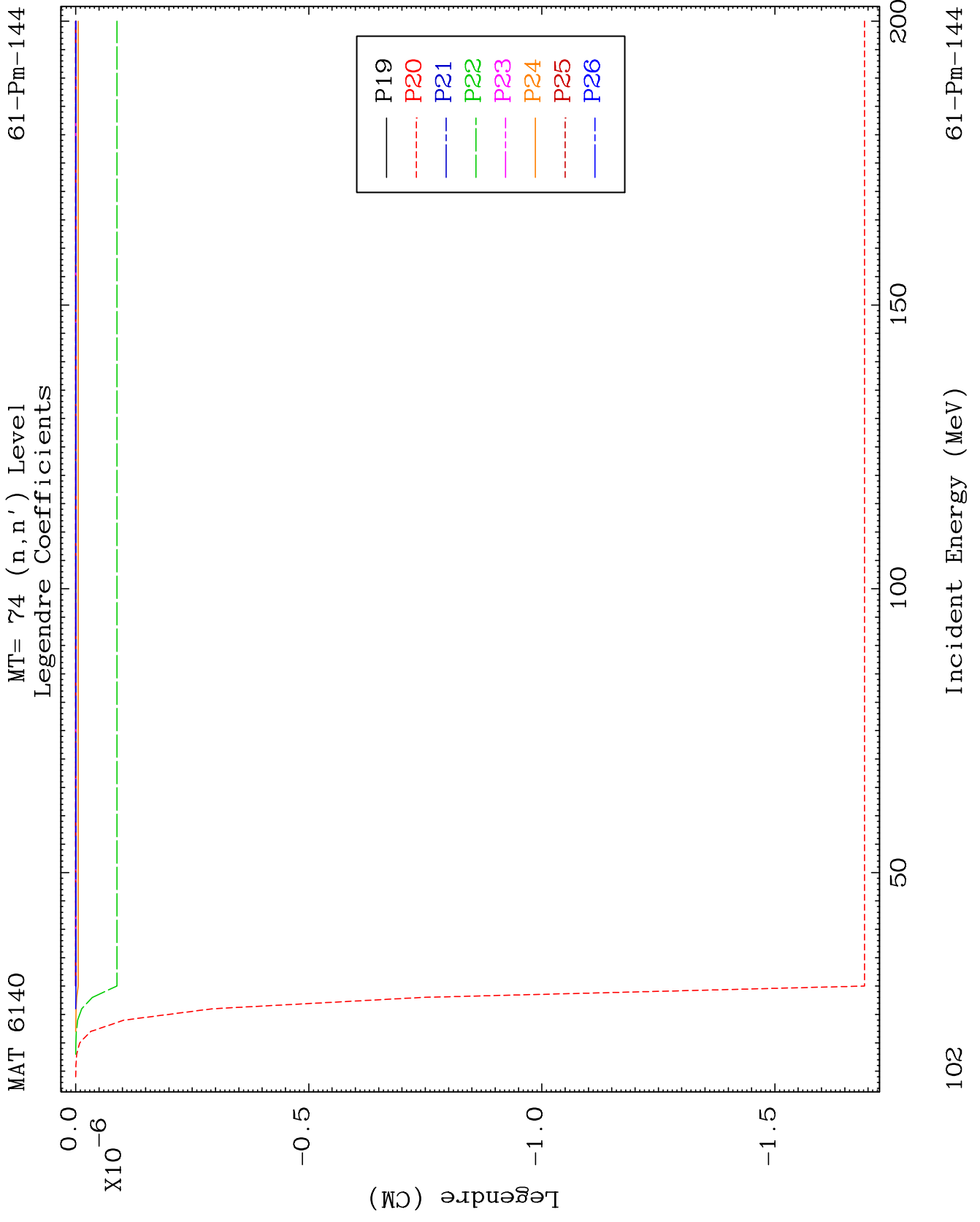
61-Pm-144

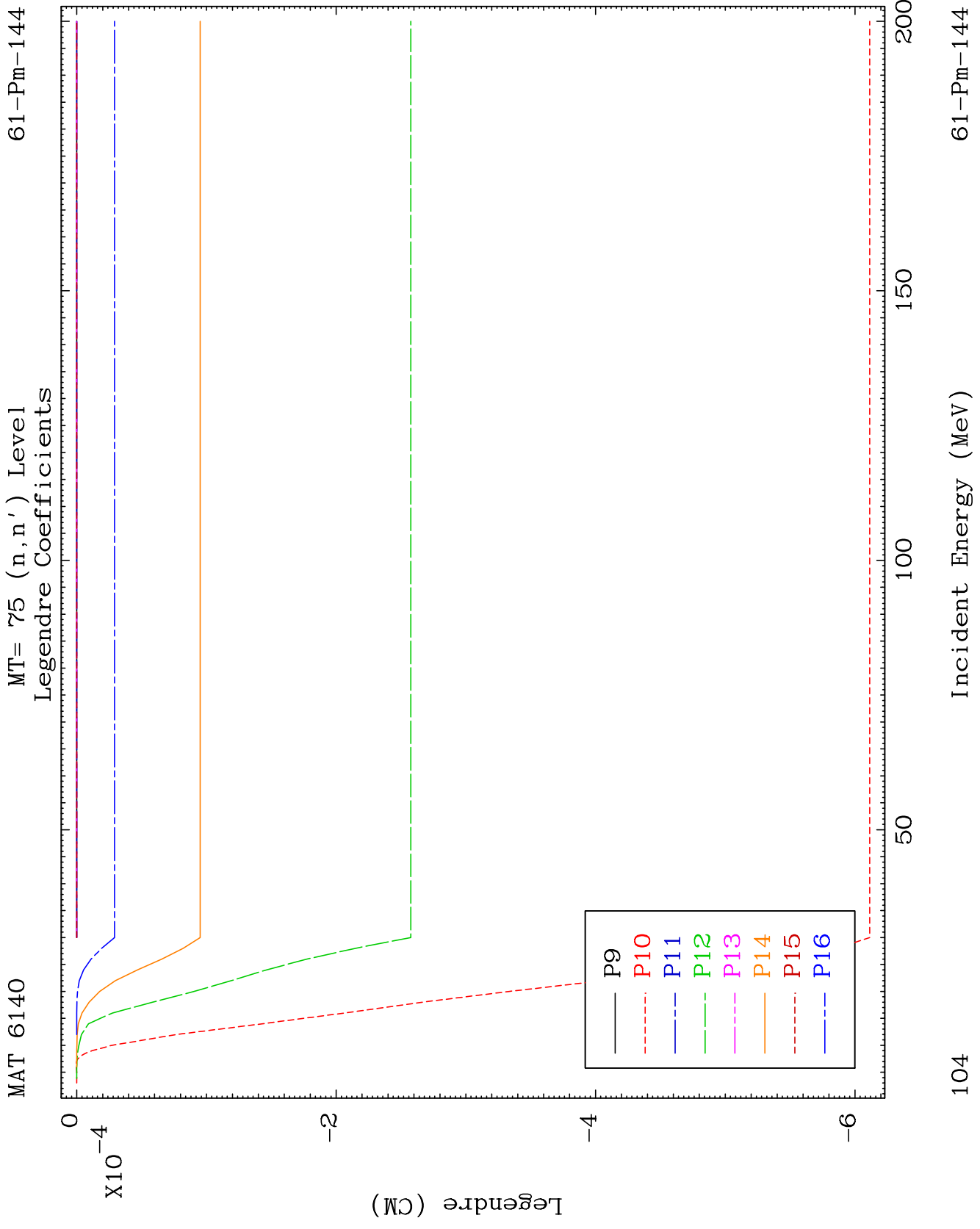


101

Incident Energy (MeV)

61-Pm-144

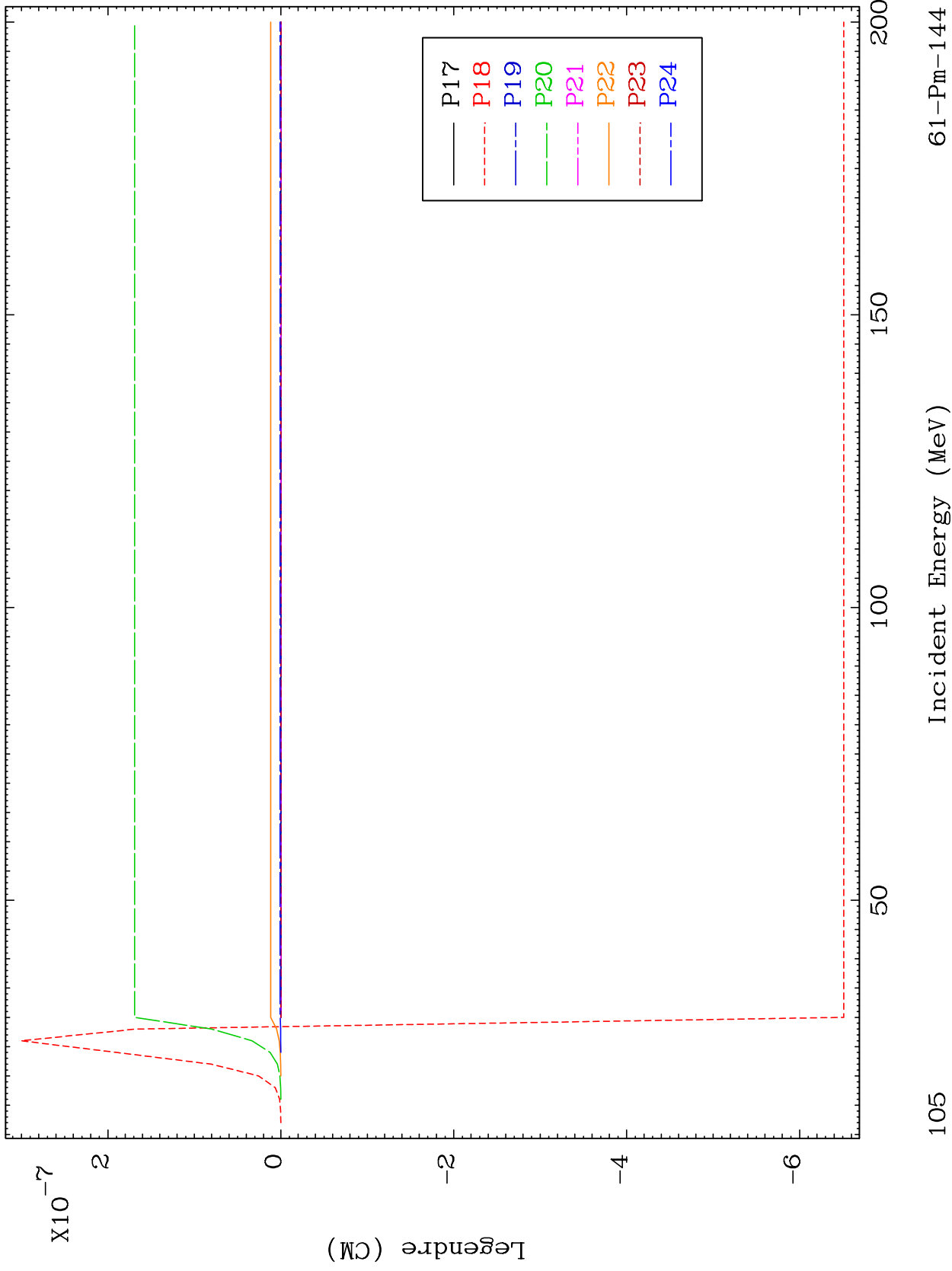




MAT 6140

MT= 75 (n,n') Level
Legendre Coefficients

61-Pm-144



105

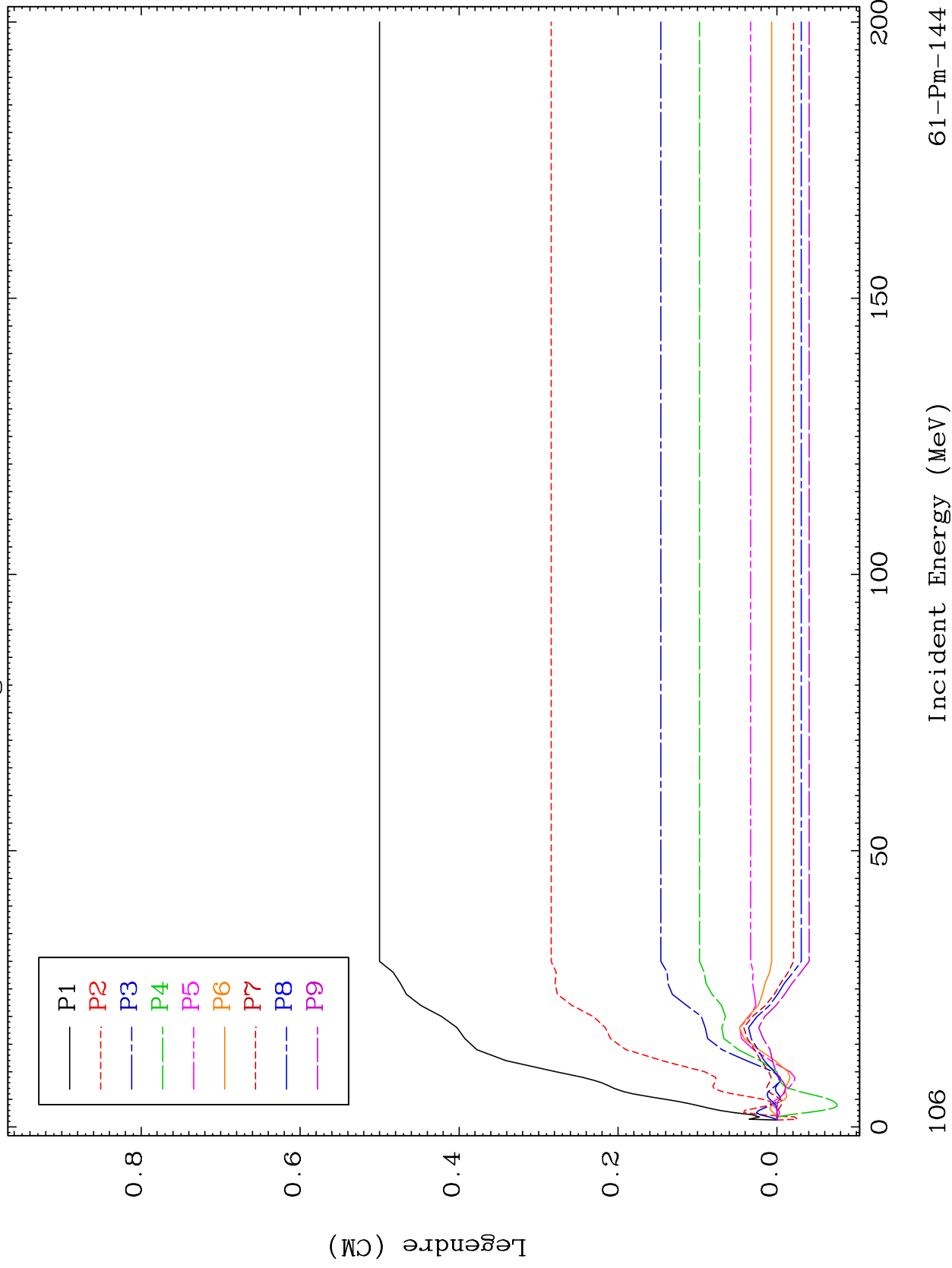
Incident Energy (MeV)

61-Pm-144

MAT 6140

MT= 76 (n,n') Level
Legendre Coefficients

61-Pm-144



61-Pm-144

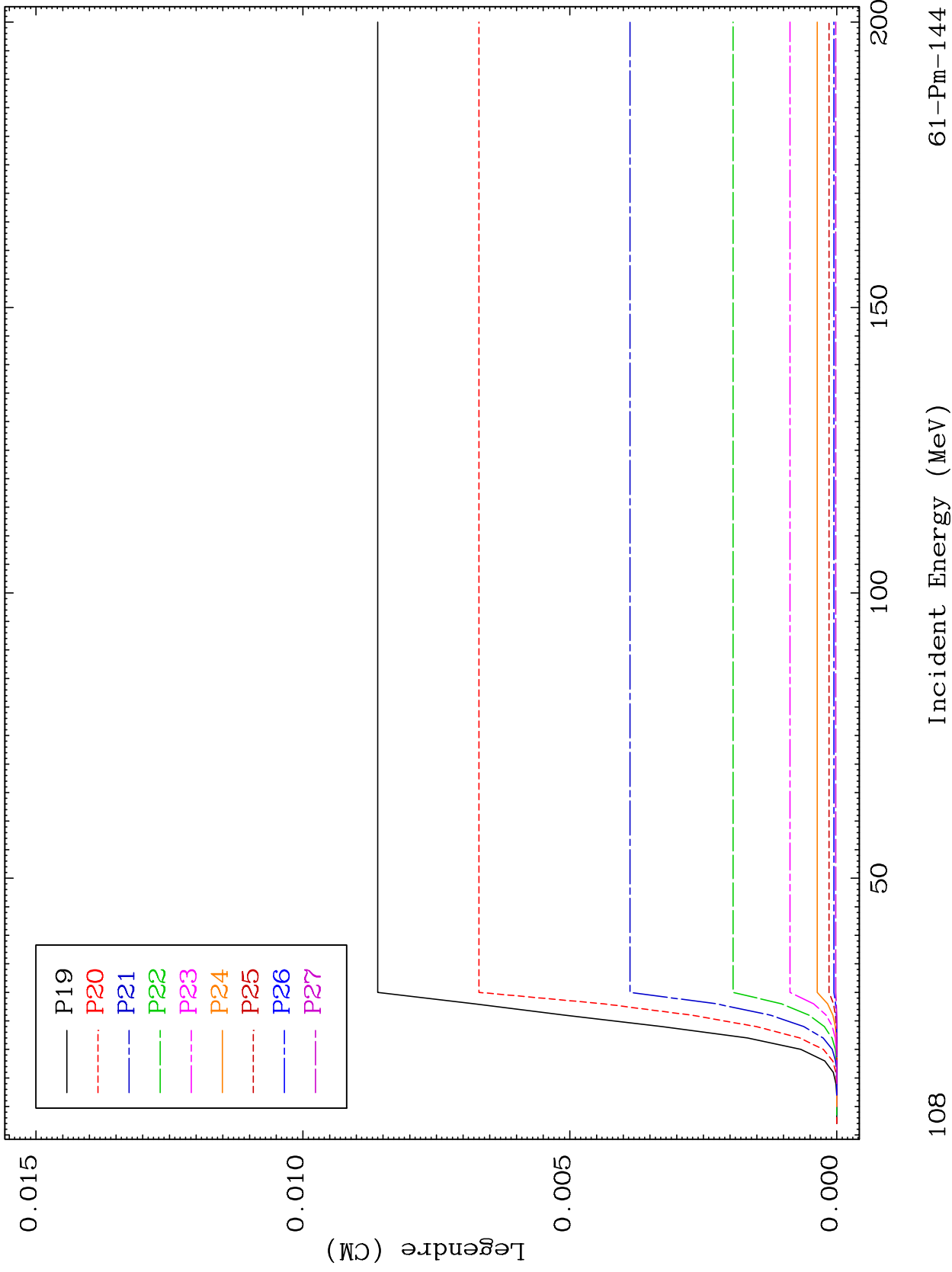
Incident Energy (MeV)

106

MAT 6140

MT= 76 (n,n') Level
Legendre Coefficients

61-Pm-144



108

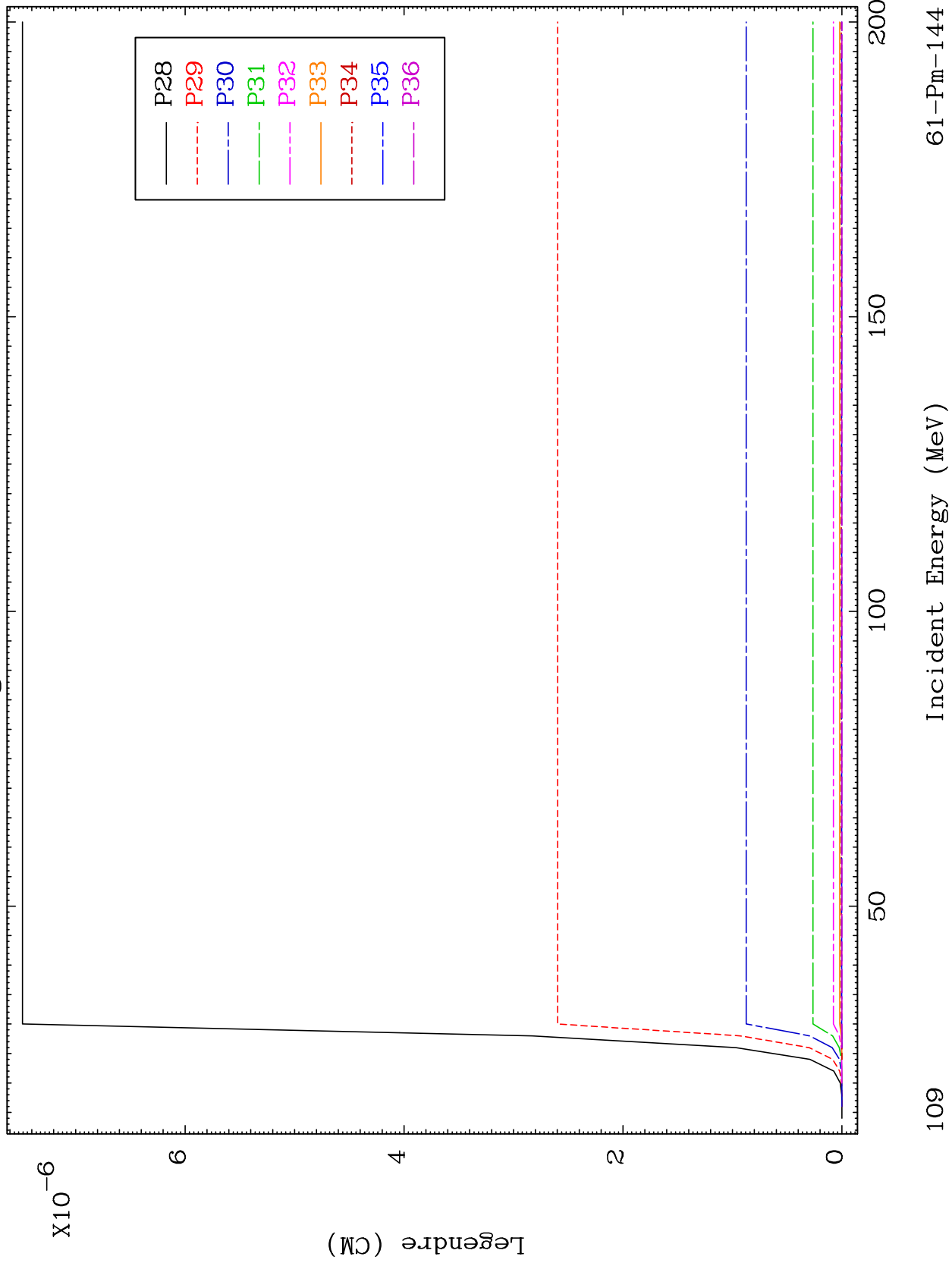
Incident Energy (MeV)

61-Pm-144

MAT 6140

MT= 76 (n,n') Level
Legendre Coefficients

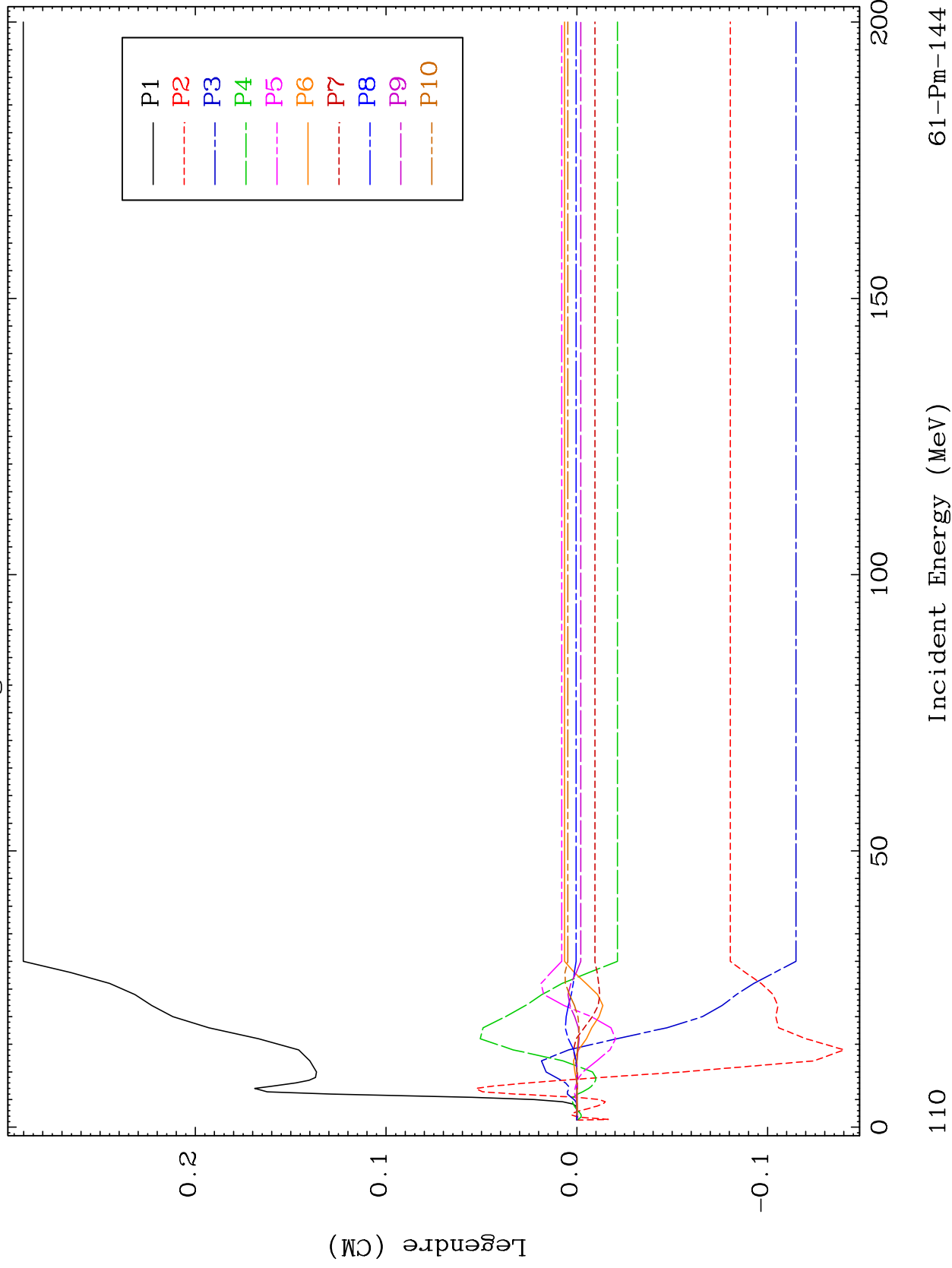
61-Pm-144



MAT 6140

MT= 77 (n,n') Level
Legendre Coefficients

61-Pm-144



61-Pm-144

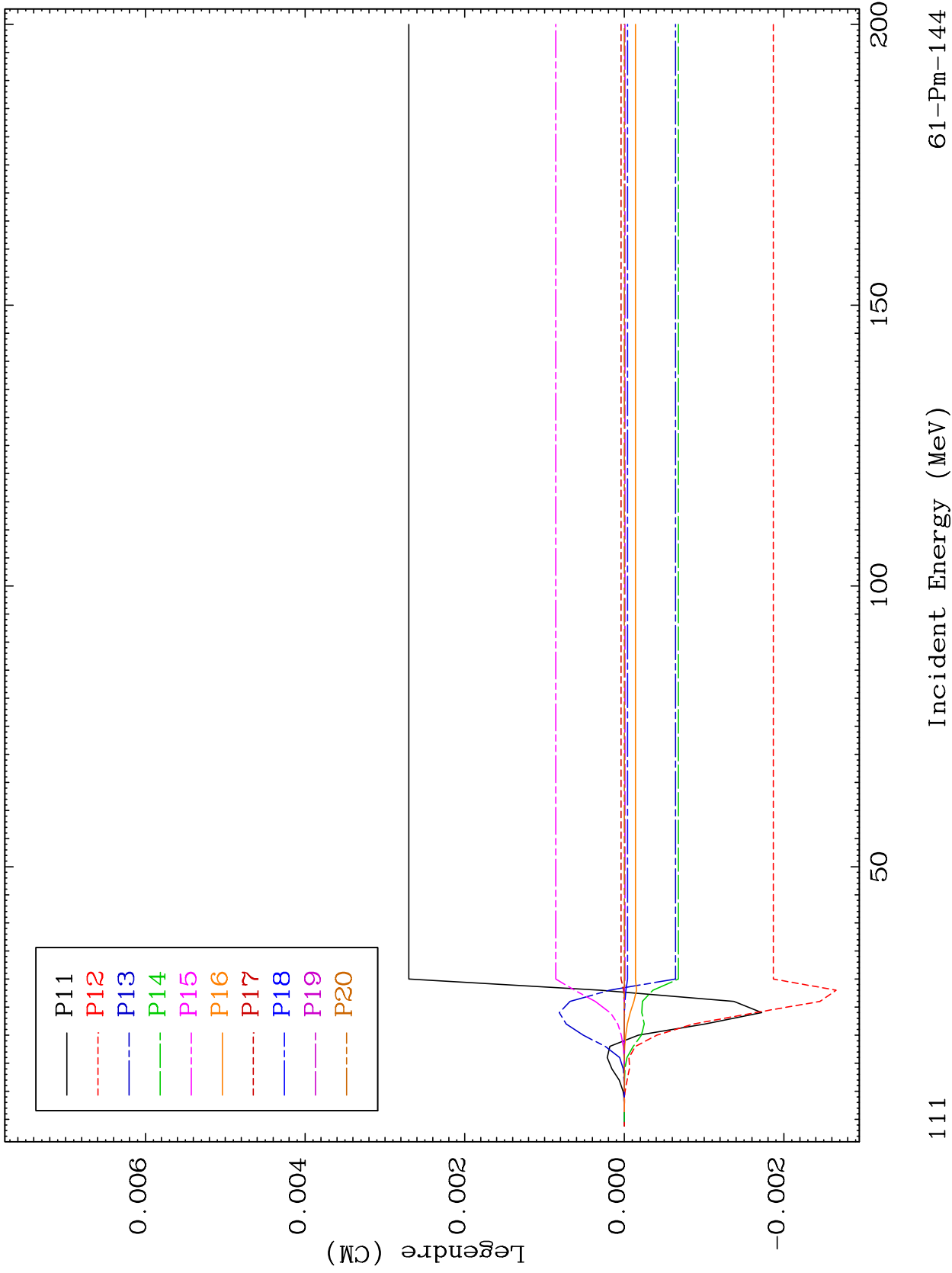
Incident Energy (MeV)

110

MAT 6140

MT= 77 (n,n') Level
Legendre Coefficients

61-Pm-144



111

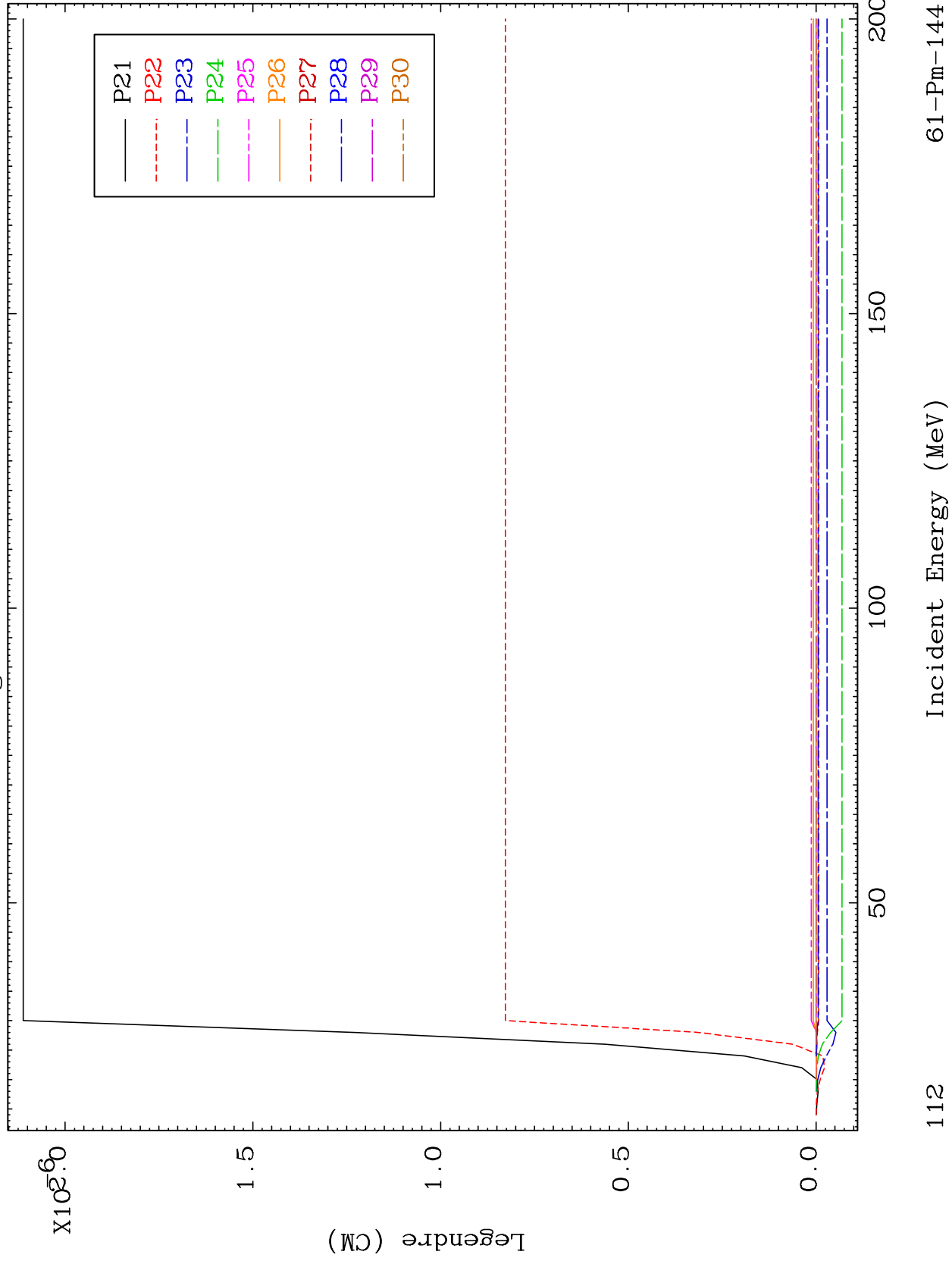
Incident Energy (MeV)

61-Pm-144

MAT 6140

MT= 77 (n,n') Level
Legendre Coefficients

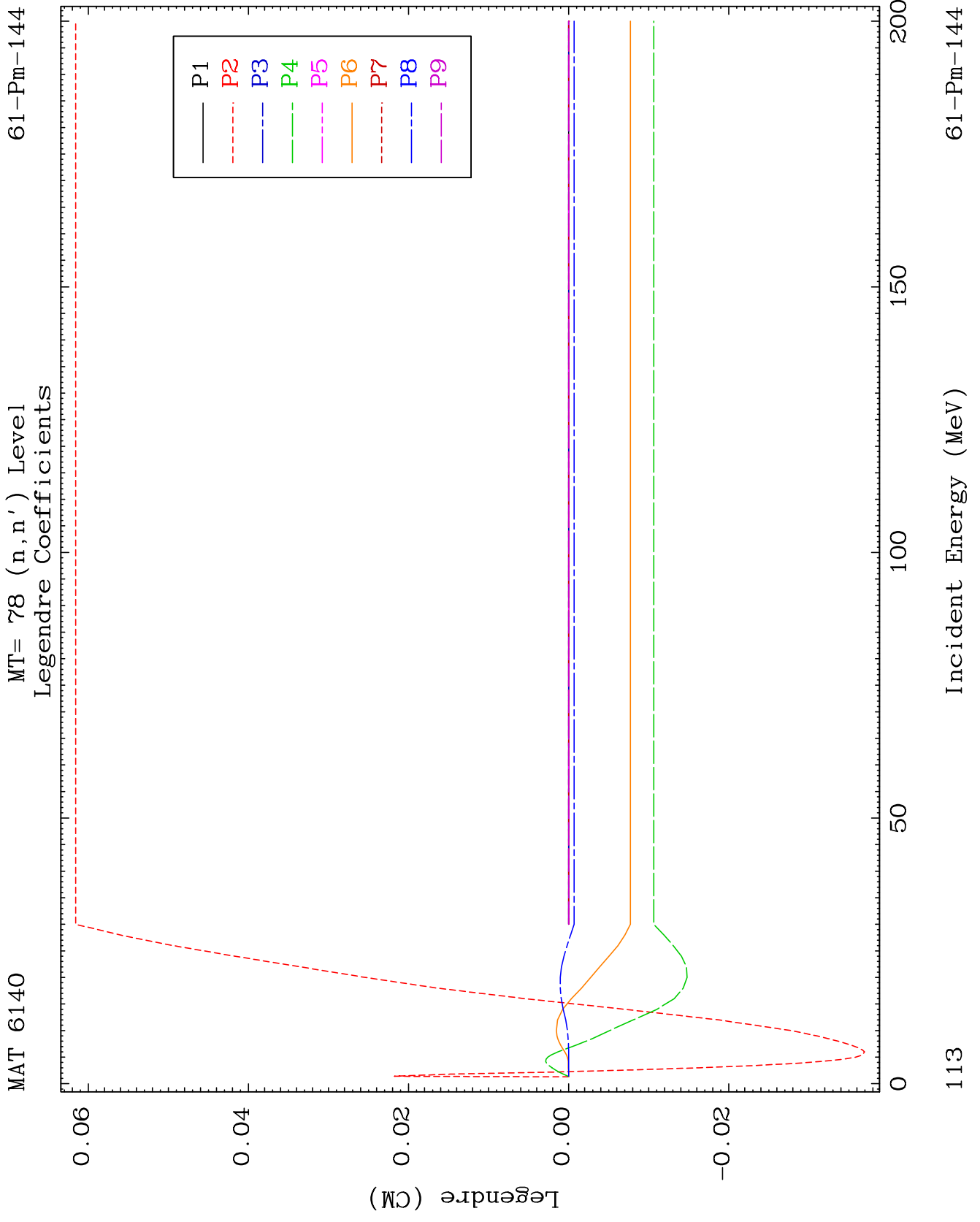
61-Pm-144



112

Incident Energy (MeV)

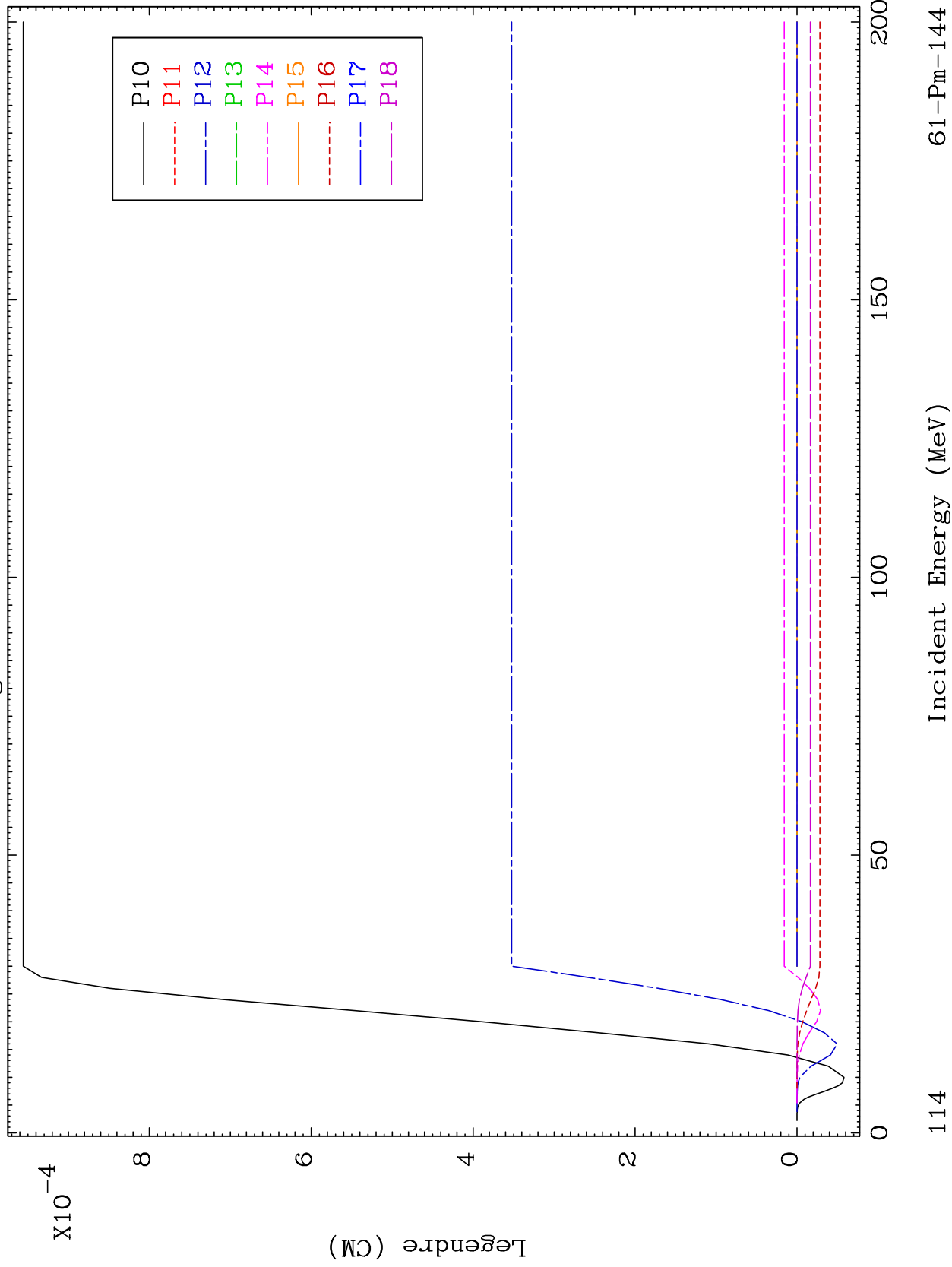
61-Pm-144



MAT 6140

MT= 78 (n,n') Level
Legendre Coefficients

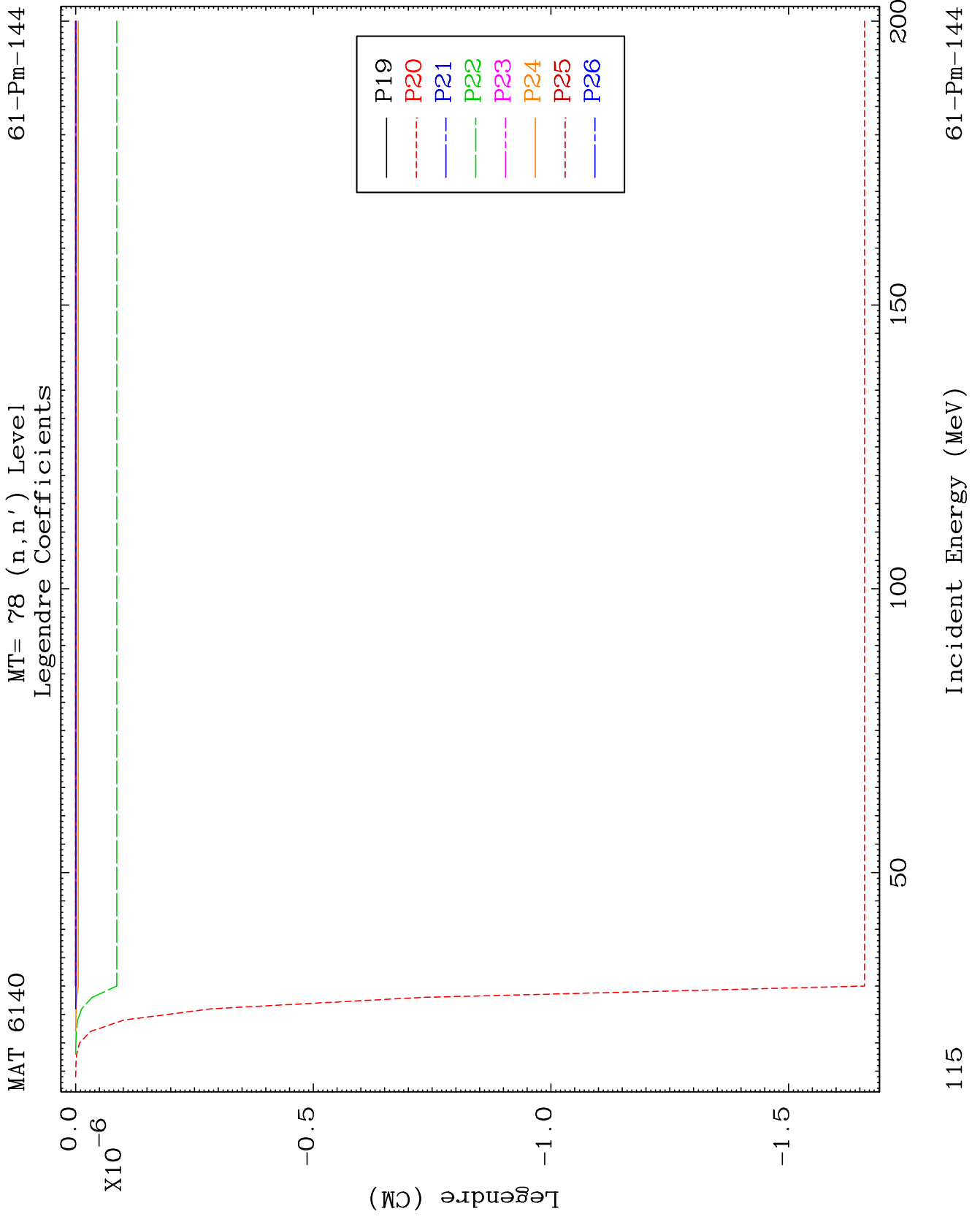
61-Pm-144

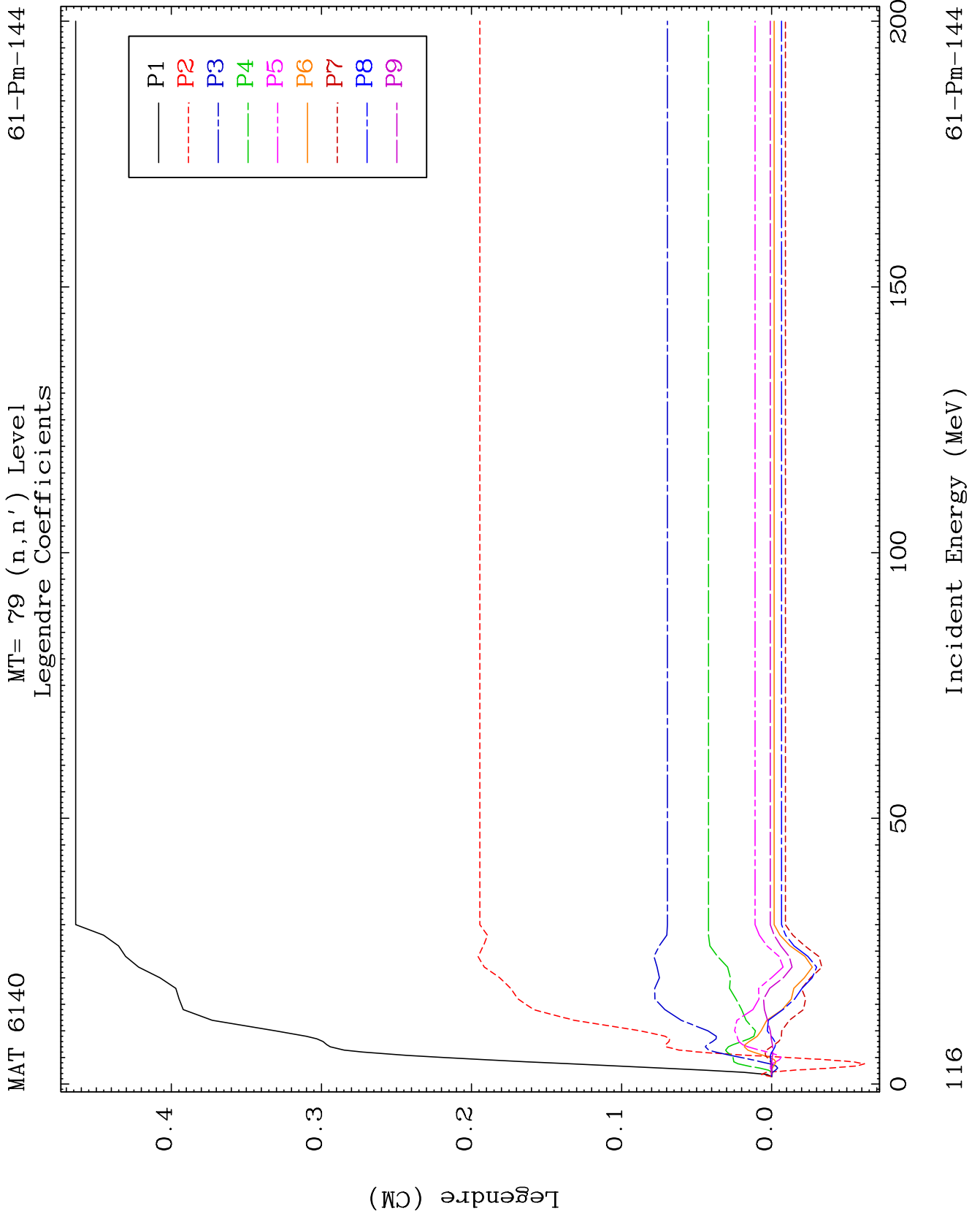


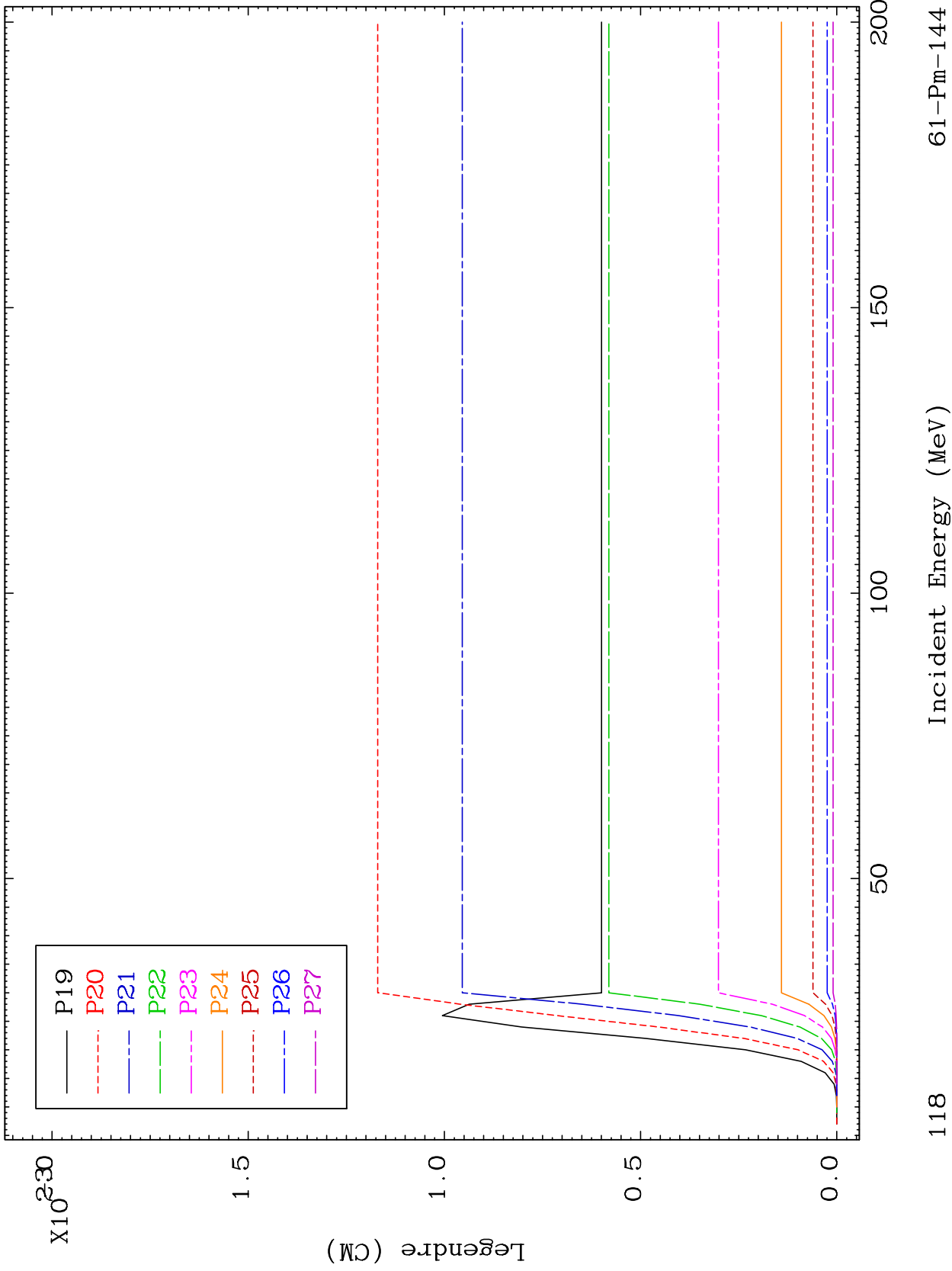
61-Pm-144

Incident Energy (MeV)

114



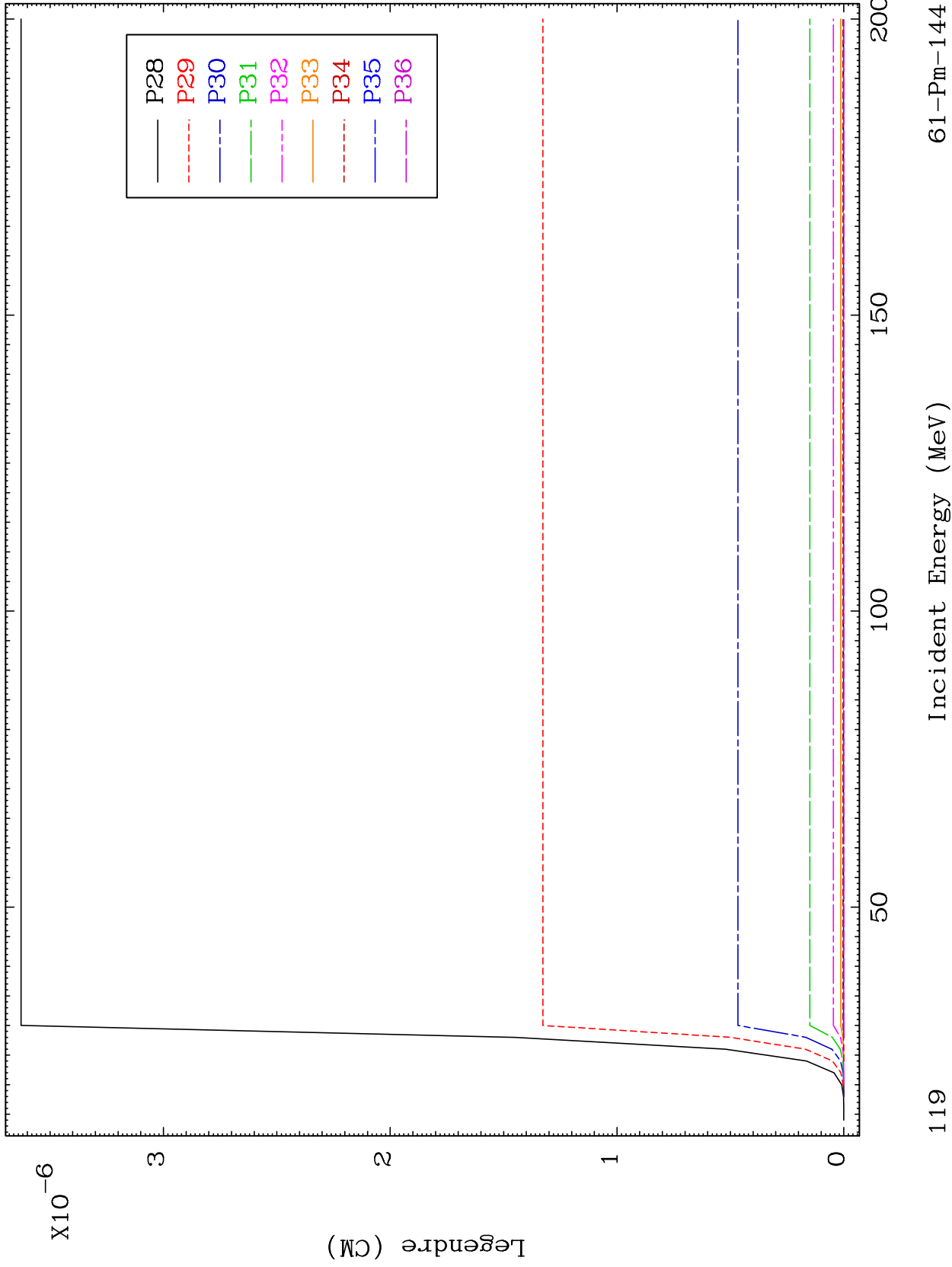




MAT 6140

MT= 79 (n,n') Level
Legendre Coefficients

61-Pm-144



119

Incident Energy (MeV)

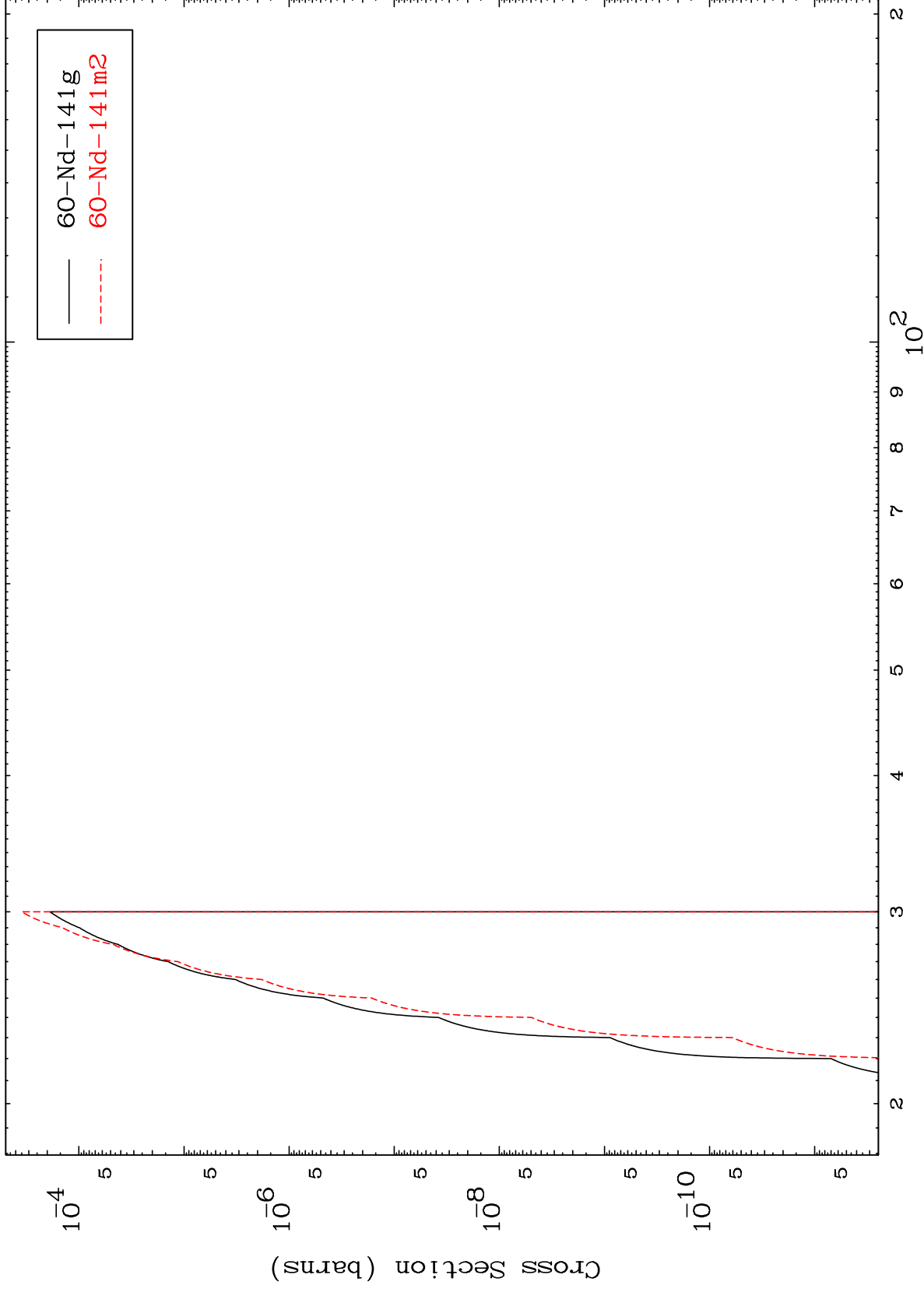
61-Pm-144

MAT 6140

(n,2n) d

61-Pm-144

Radionuclide Production Cross Section



120

Incident Energy (MeV)

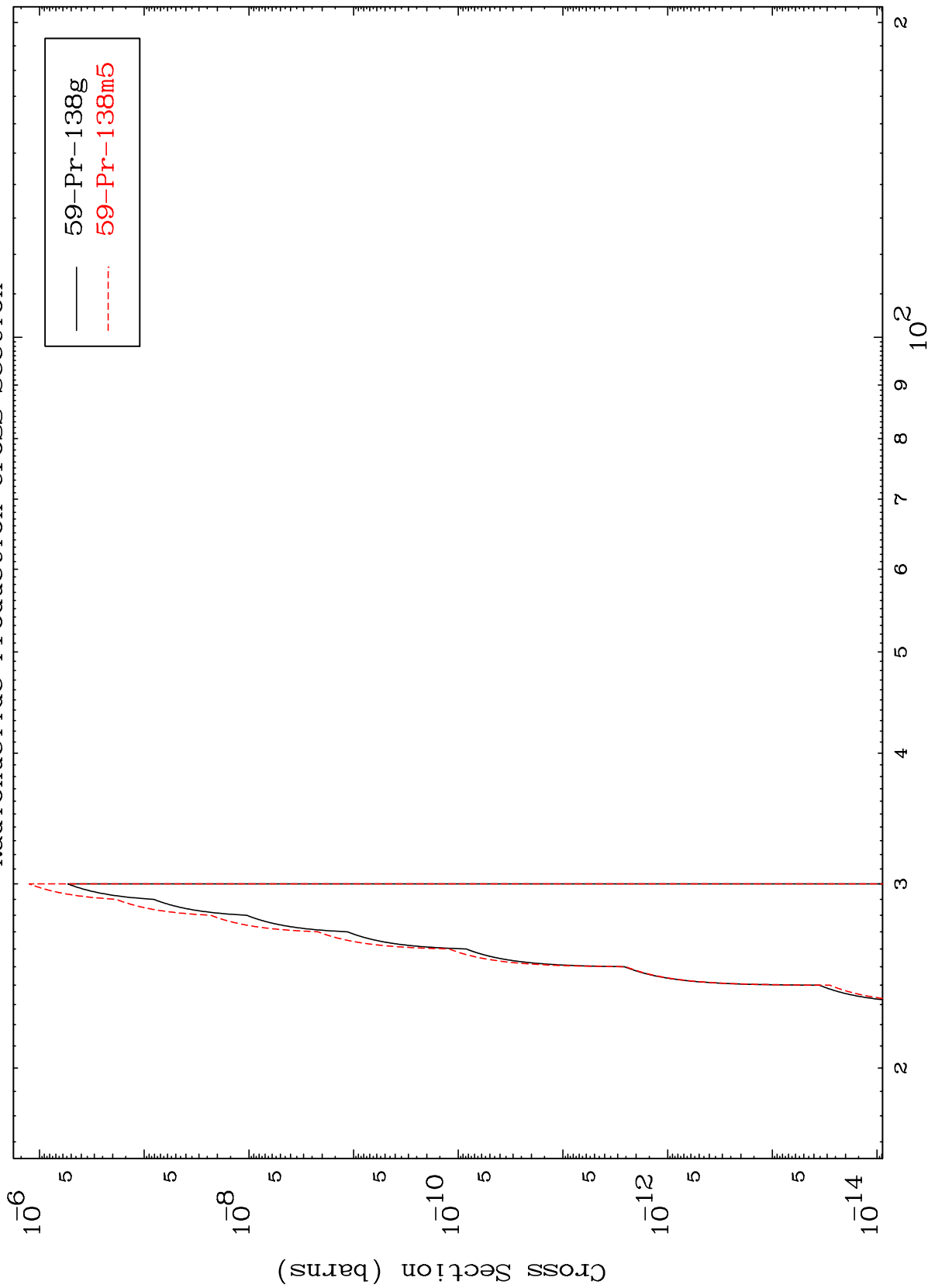
61-Pm-144

MAT 6140

(n,3n) α

61-Pm-144

Radionuclide Production Cross Section



59-Pr-138g
59-Pr-138m5

121

Incident Energy (MeV)

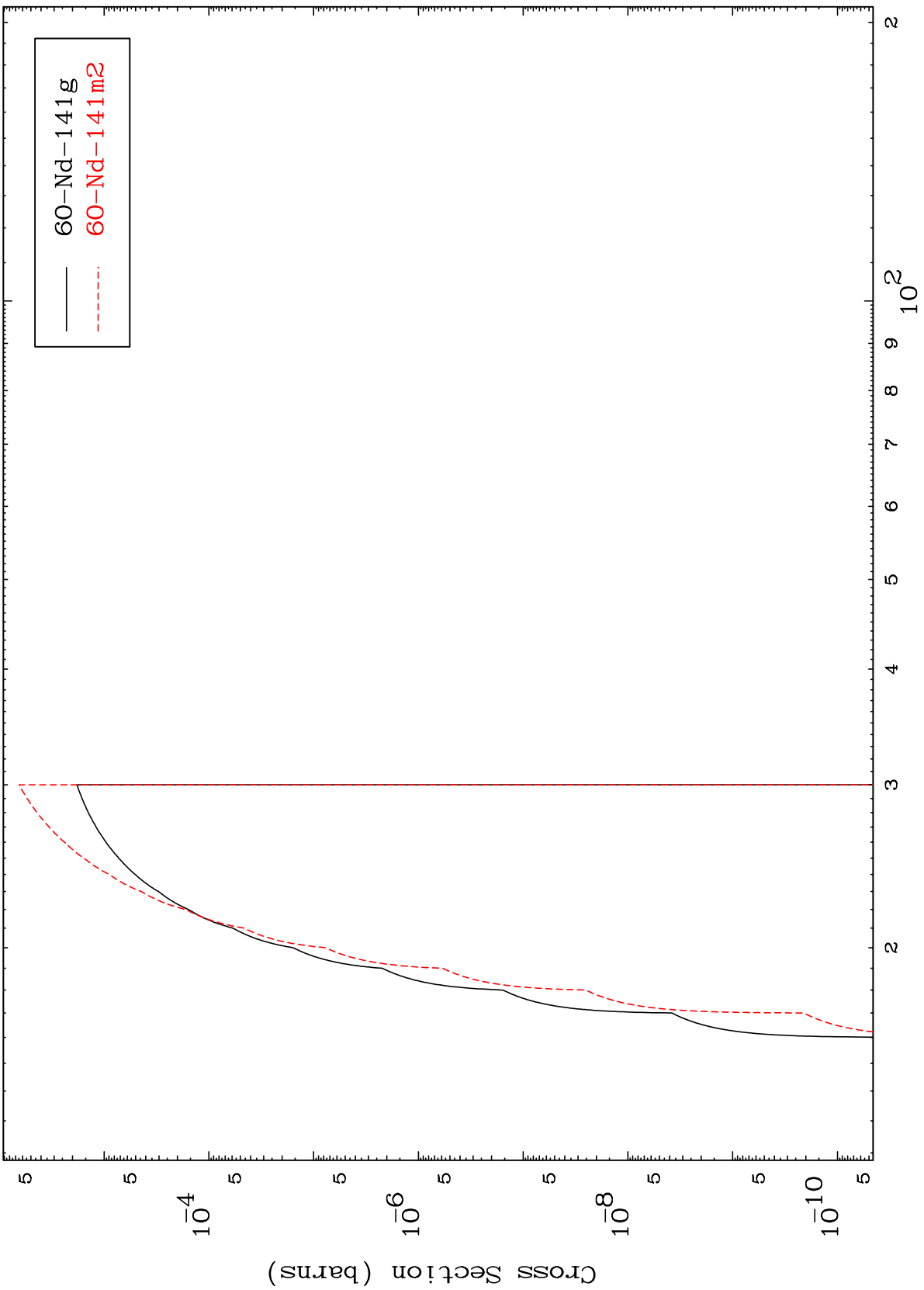
61-Pm-144

MAT 6140

(n,n') t

61-Pm-144

Radionuclide Production Cross Section

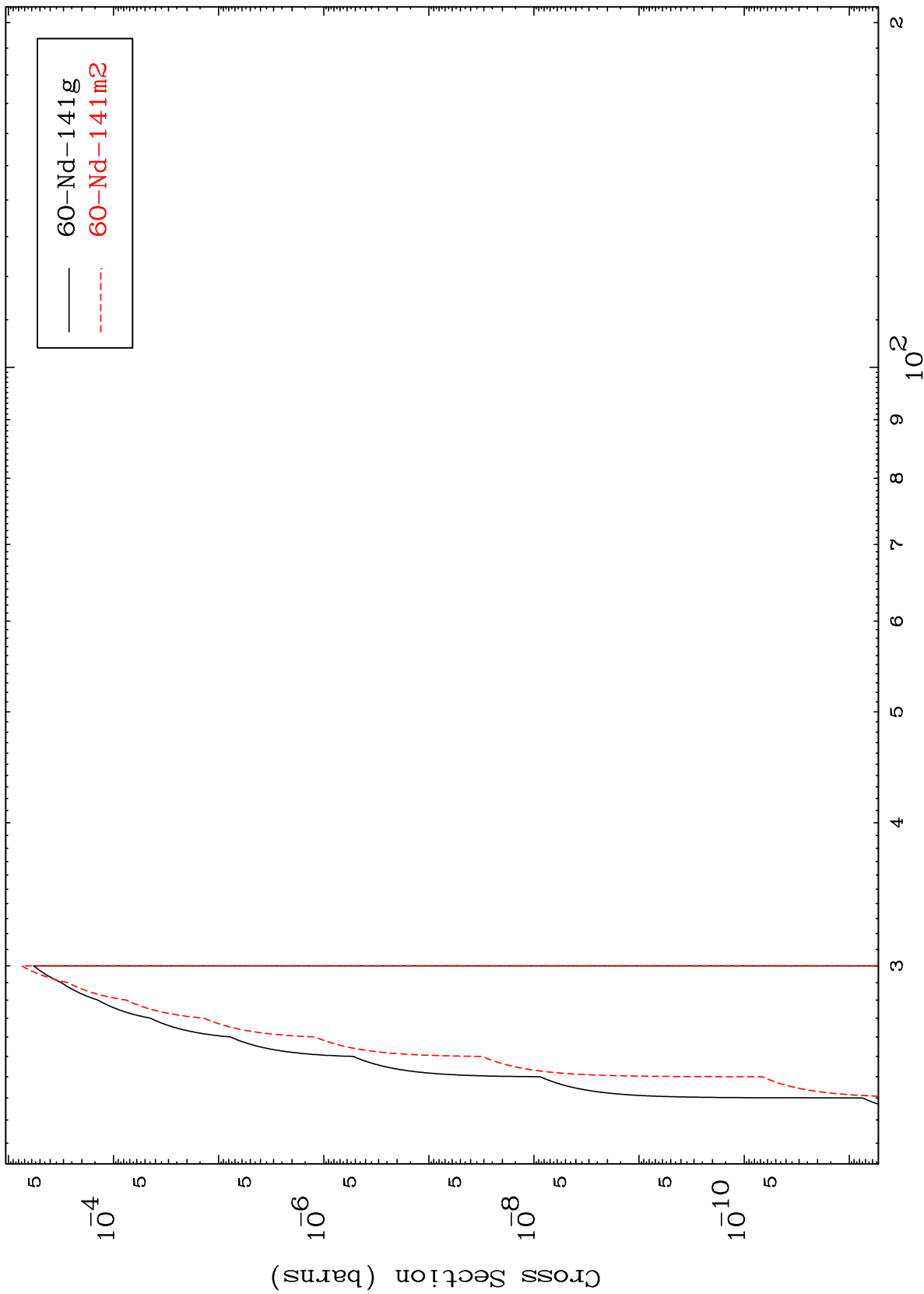


122

Incident Energy (MeV)

61-Pm-144

Radionuclide Production Cross Section

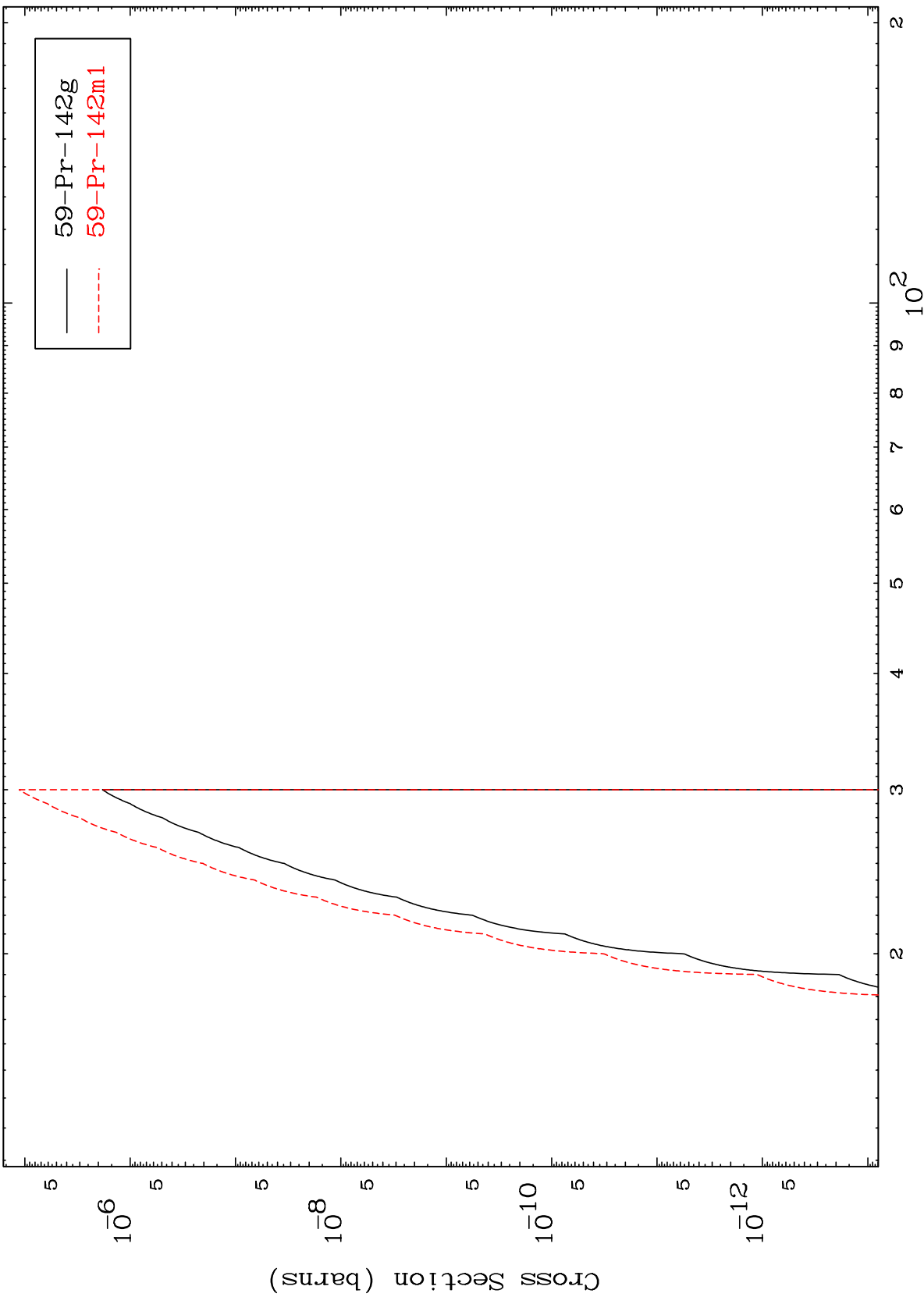


MAT 6140

(n,2n) p

61-Pm-144

Radionuclide Production Cross Section



124

Incident Energy (MeV)

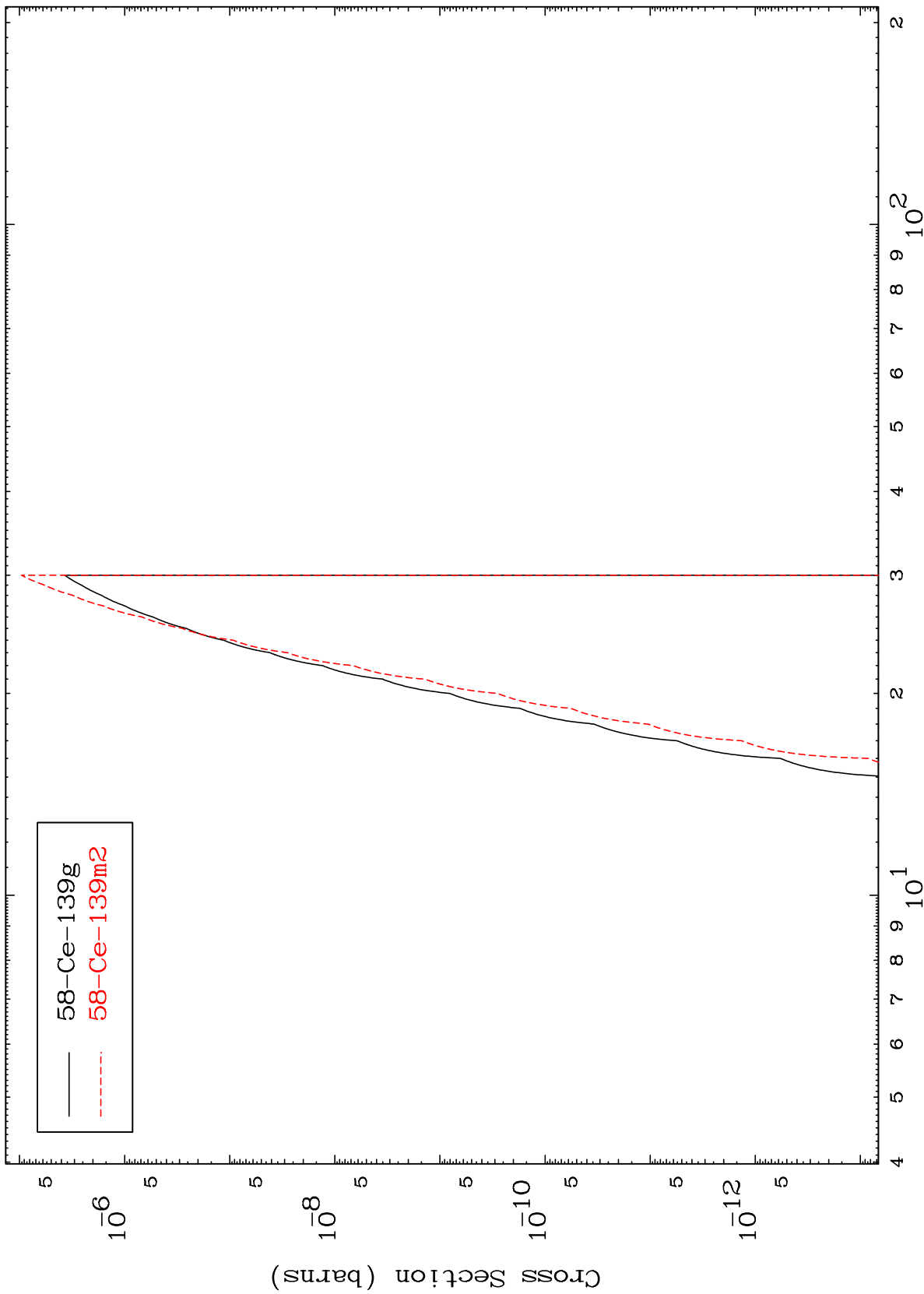
61-Pm-144

MAT 6140

(n,n') p α

61-Pm-144

Radionuclide Production Cross Section



58-Ce-139g
58-Ce-139m2

125

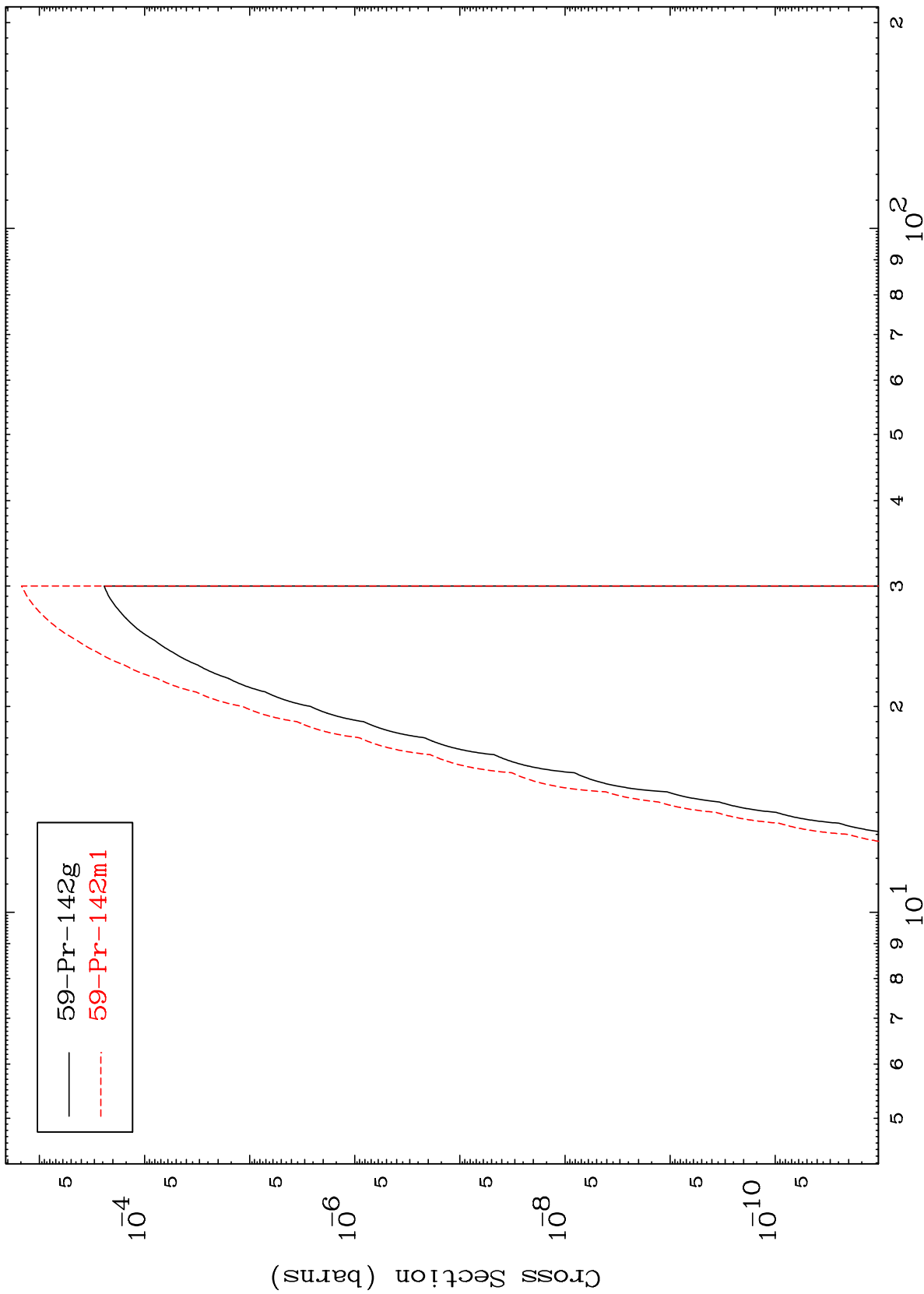
Incident Energy (MeV)

61-Pm-144

MAT 6140

61-Pm-144

(n,He-3)
Radionuclide Production Cross Section



126

Incident Energy (MeV)

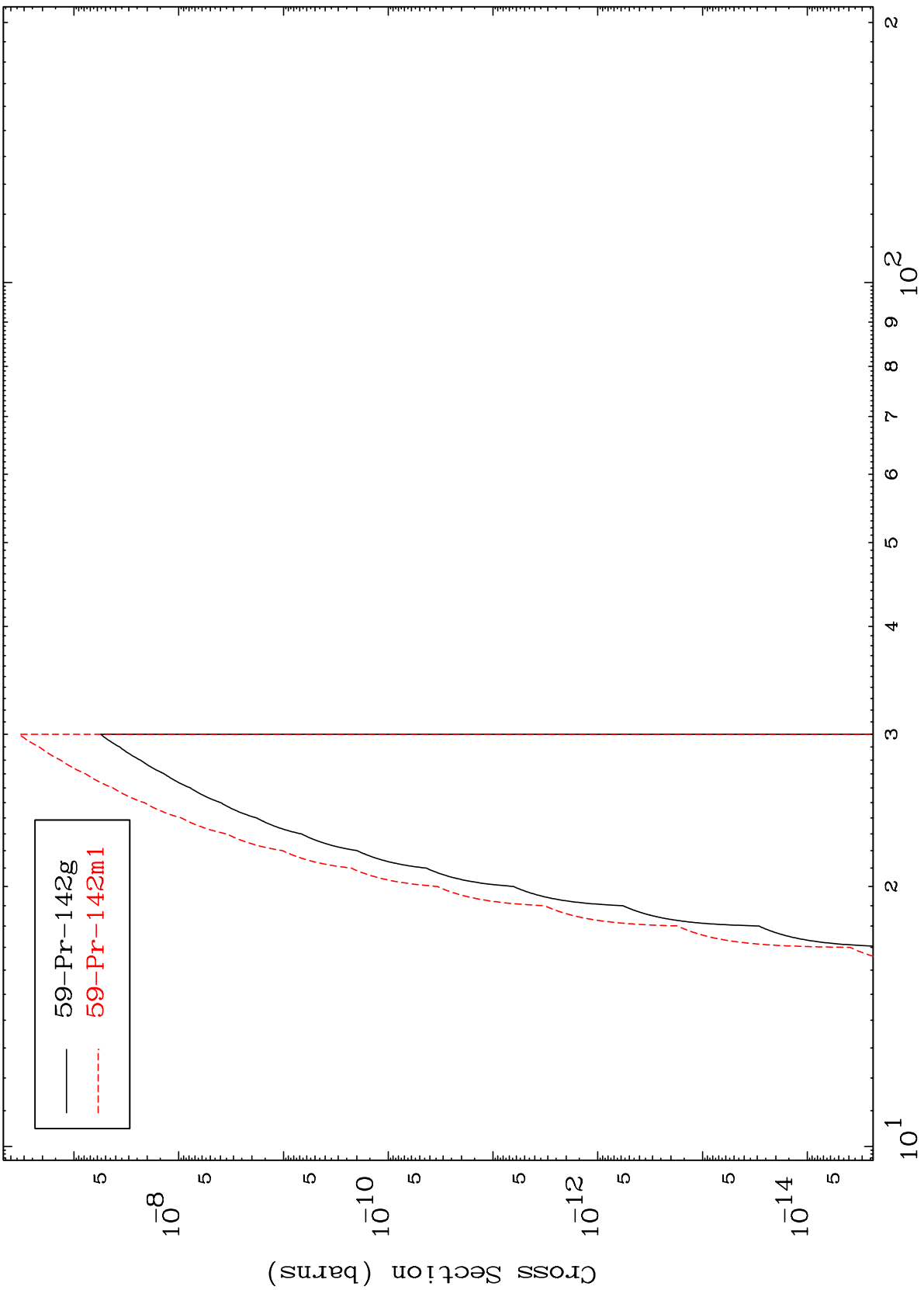
61-Pm-144

MAT 6140

(n,p) d

61-Pm-144

Radionuclide Production Cross Section



127

Incident Energy (MeV)

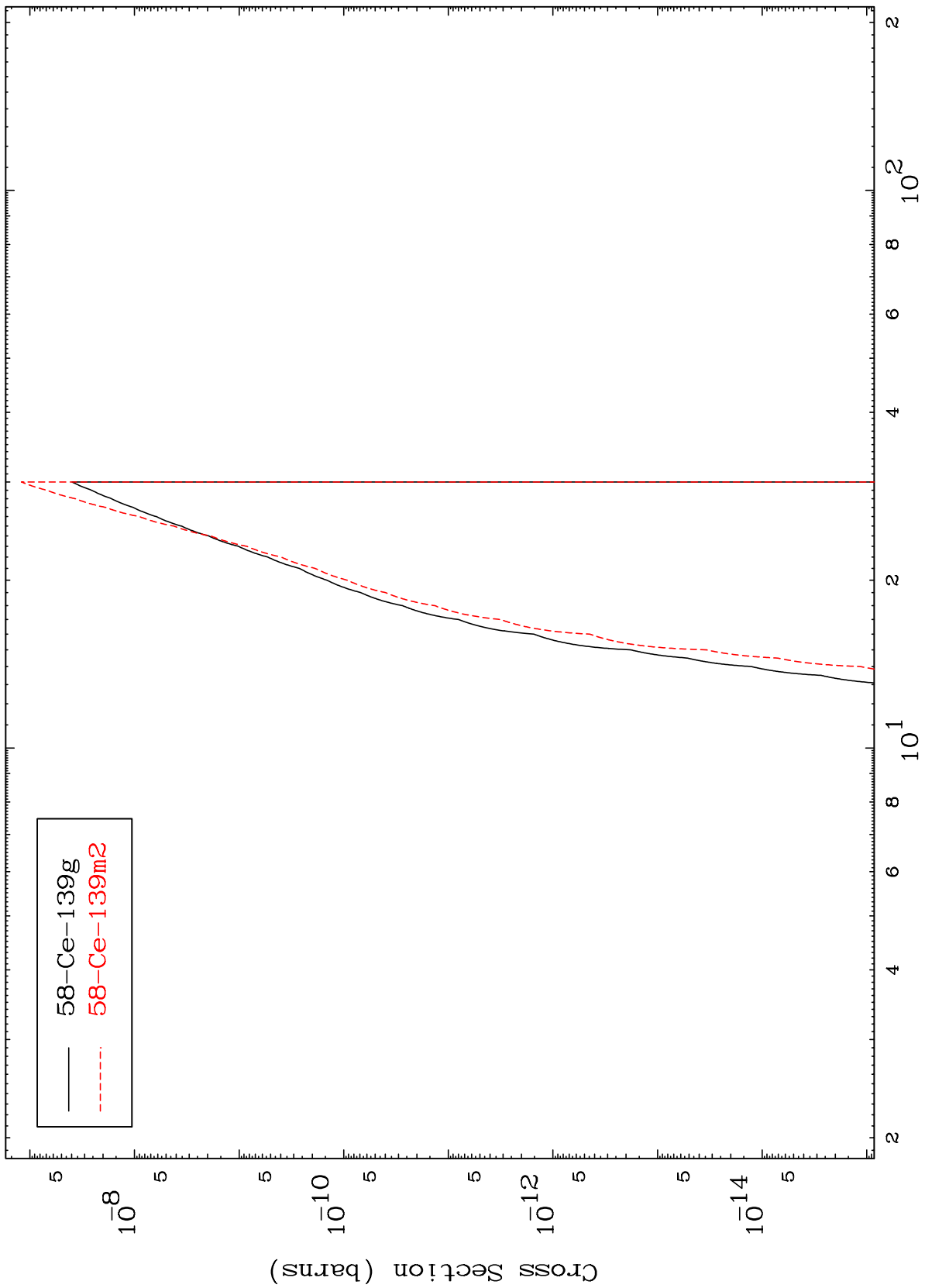
61-Pm-144

MAT 6140

(n,d) α

61-Pm-144

Radionuclide Production Cross Section



128

Incident Energy (MeV)

61-Pm-144