

Program EVALPLOT
(Version 2021-1)

by

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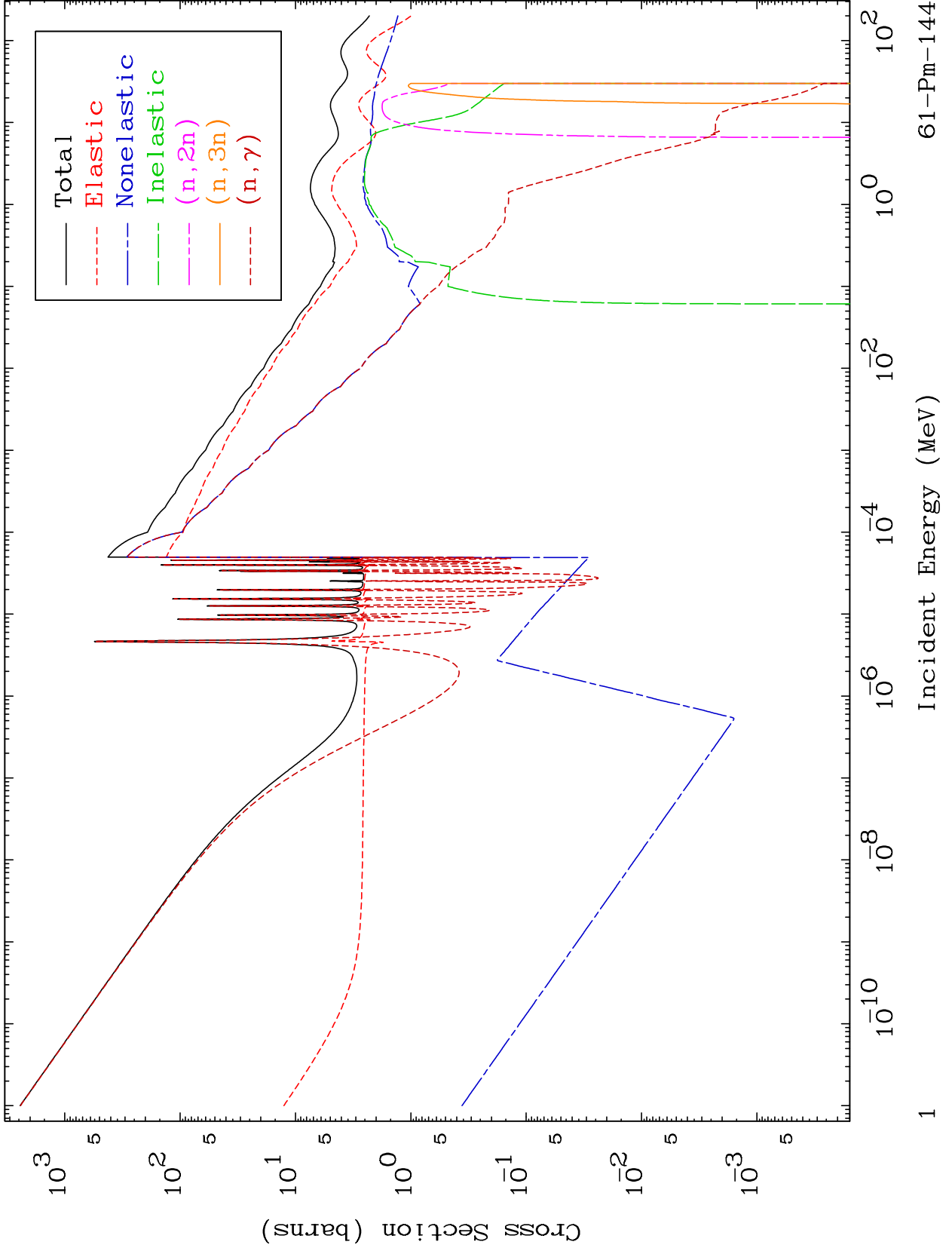
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6140

Neutron Major
293 Kelvin Cross Sections

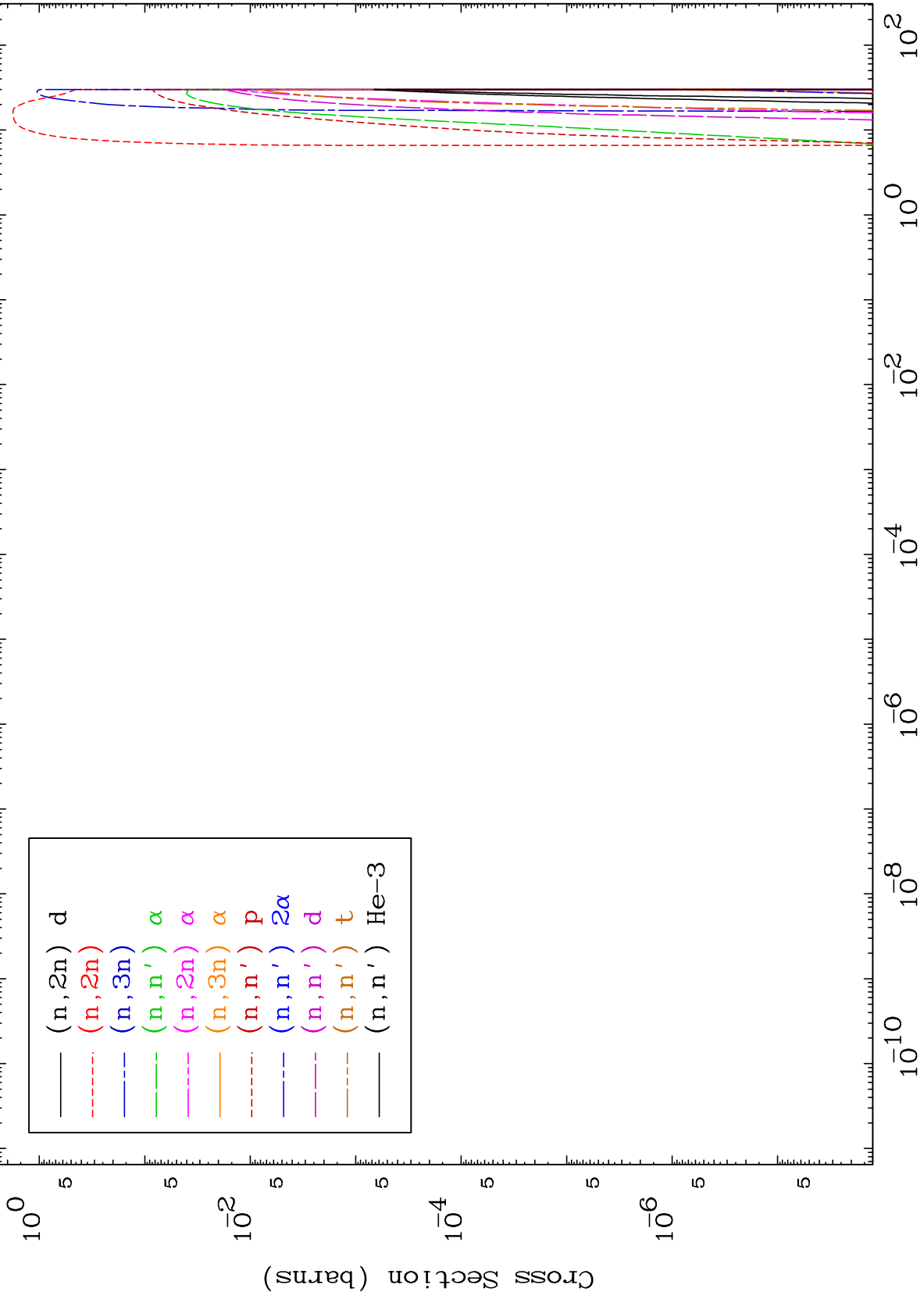
61-Pm-144



MAT 6140

Neutron Absorption
293 Kelvin Cross Sections

61-Pm-144



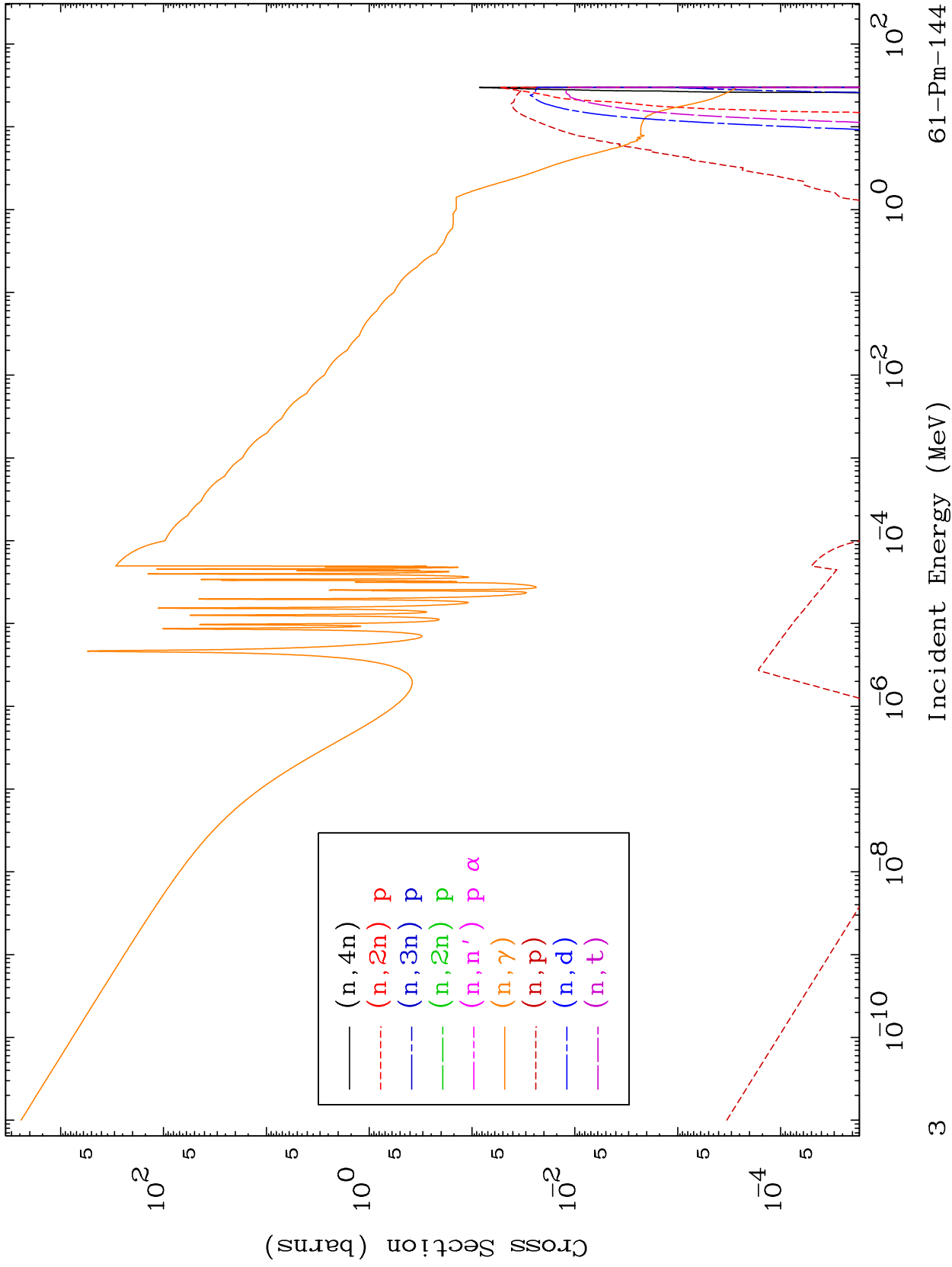
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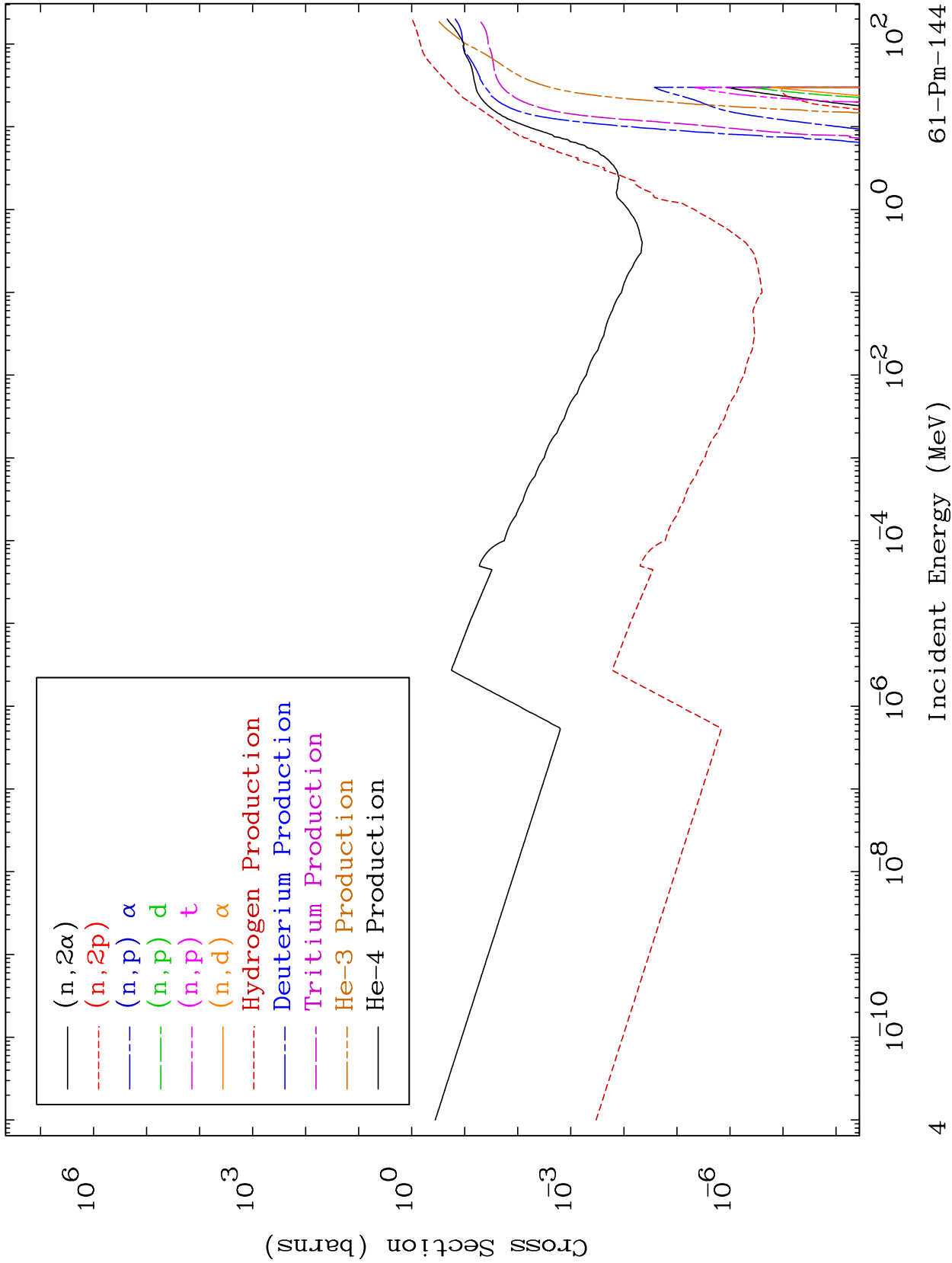
Incident Energy (MeV)

MAT 6140

Neutron Absorption
293 Kelvin Cross Sections

61-Pm-144

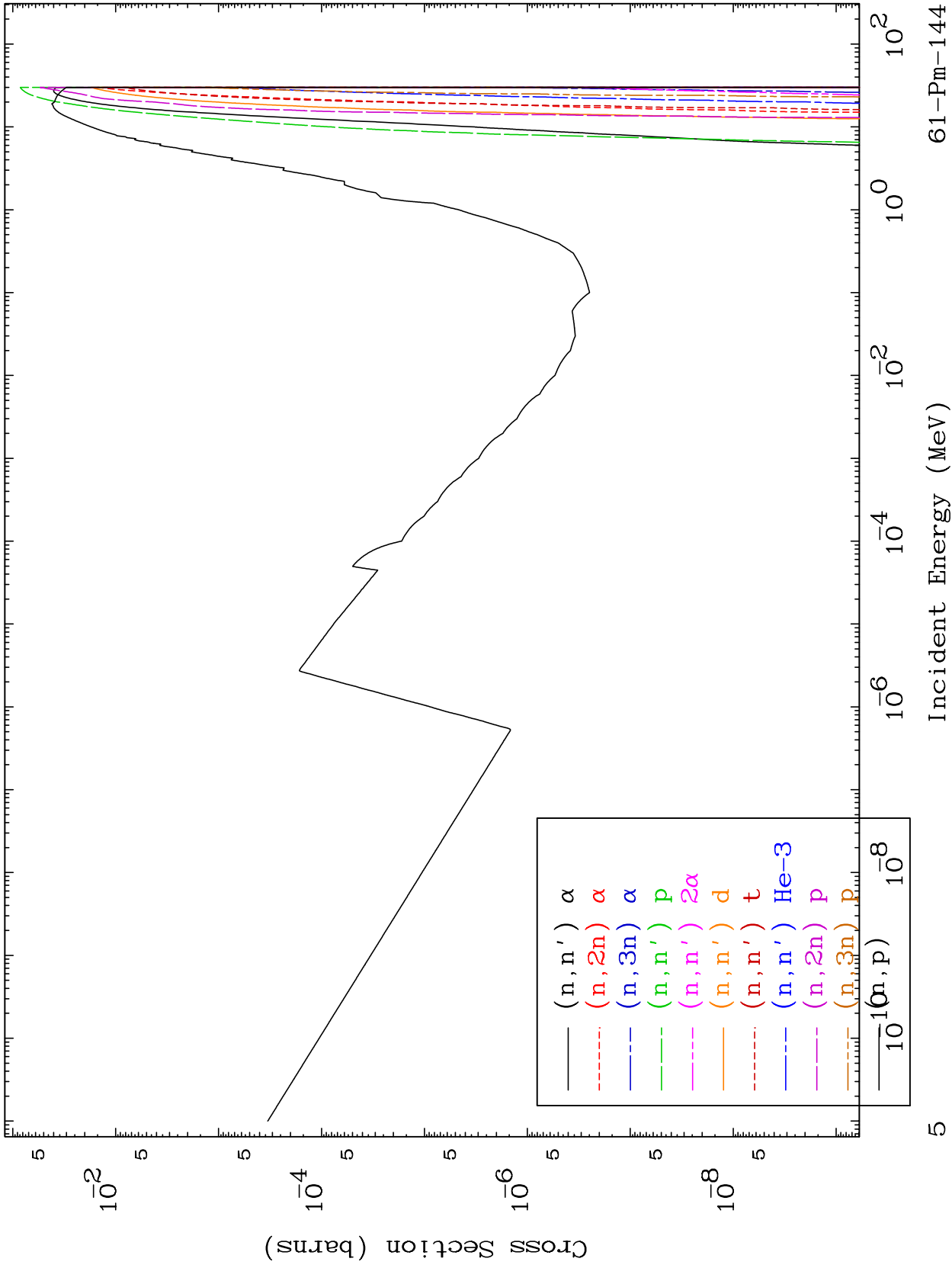




MAT 6140

Charged Particle
293 Kelvin Cross Sections

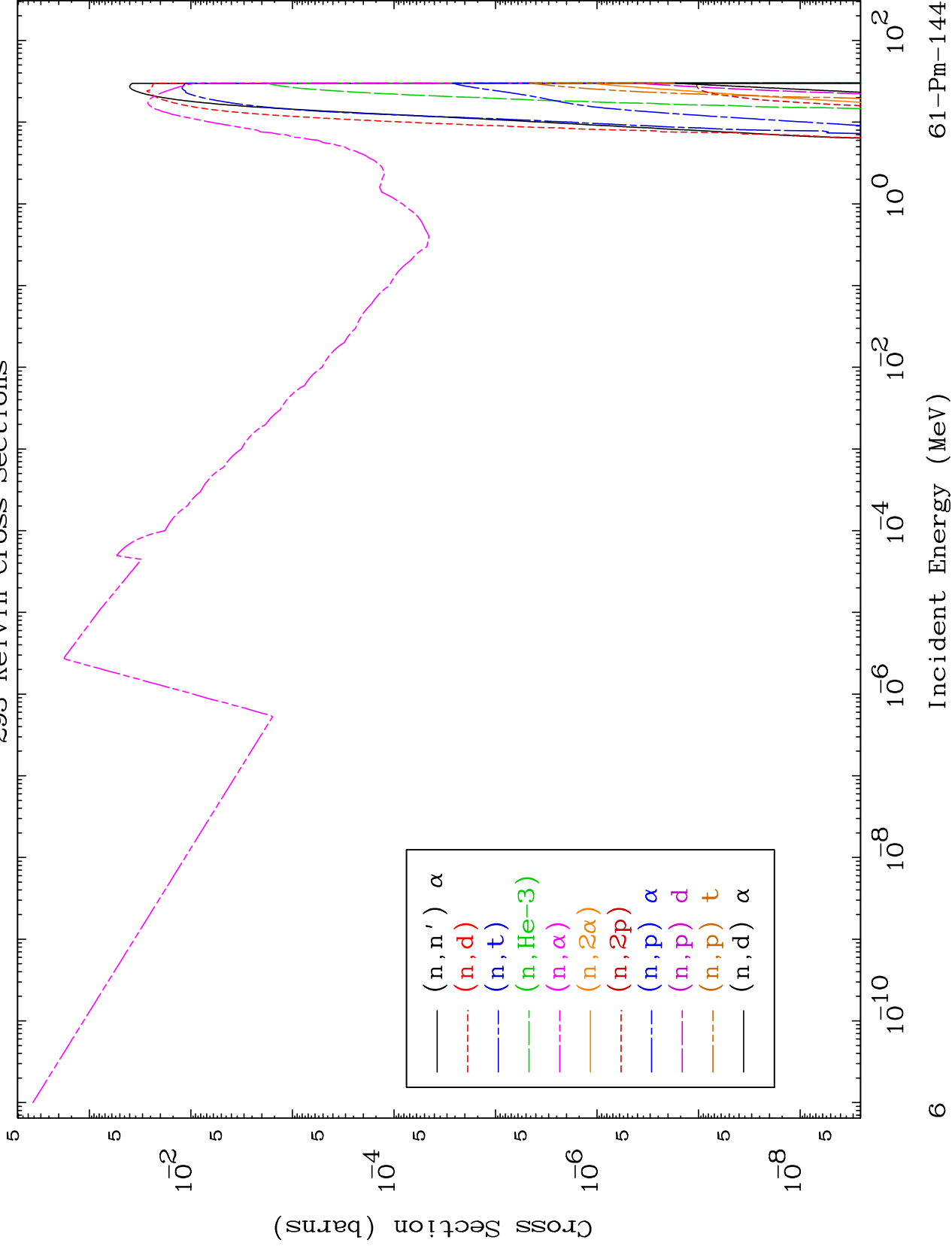
61-Pm-144



MAT 6140

Charged Particle
293 Kelvin Cross Sections

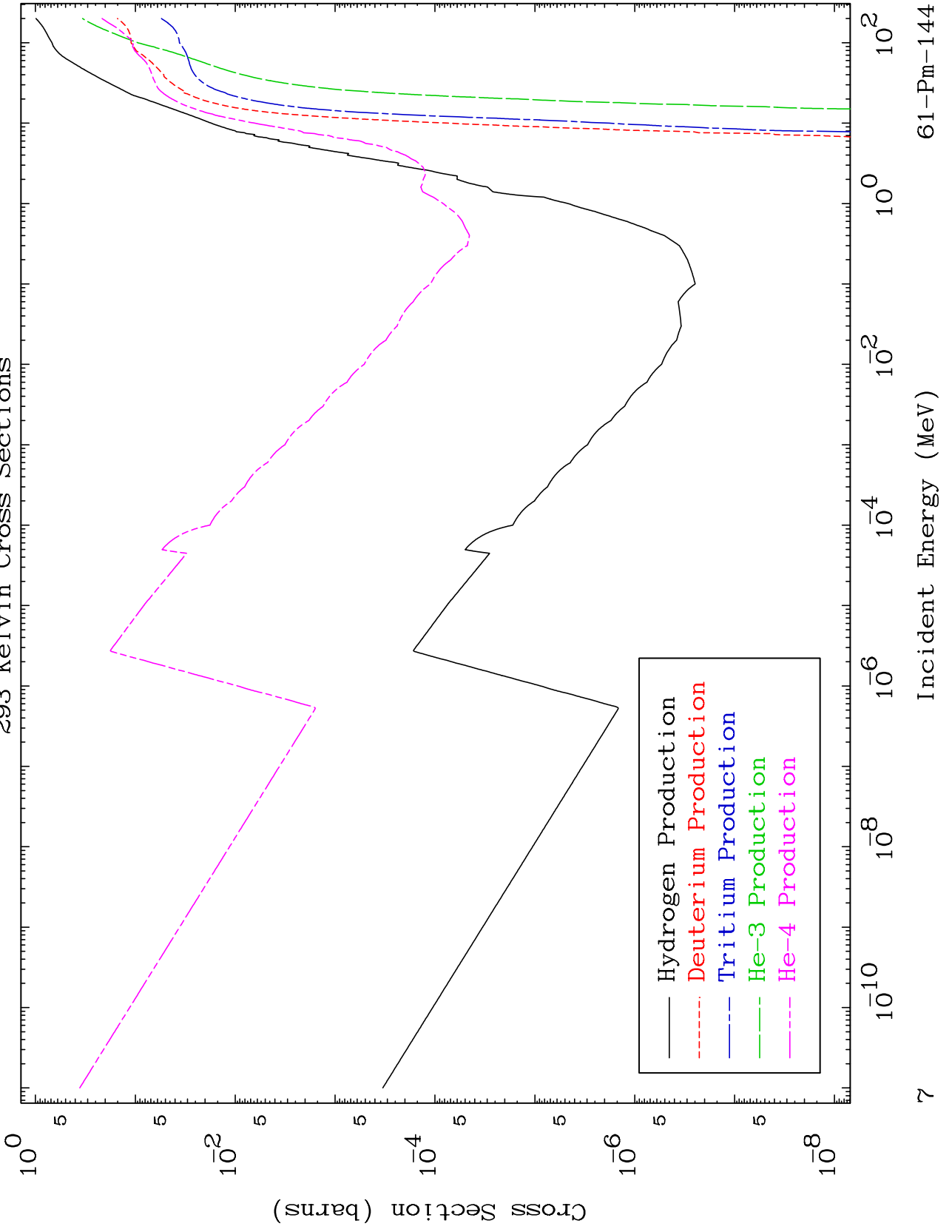
61-Pm-144



MAT 6140

Particle Production
293 Kelvin Cross Sections

61-Pm-144

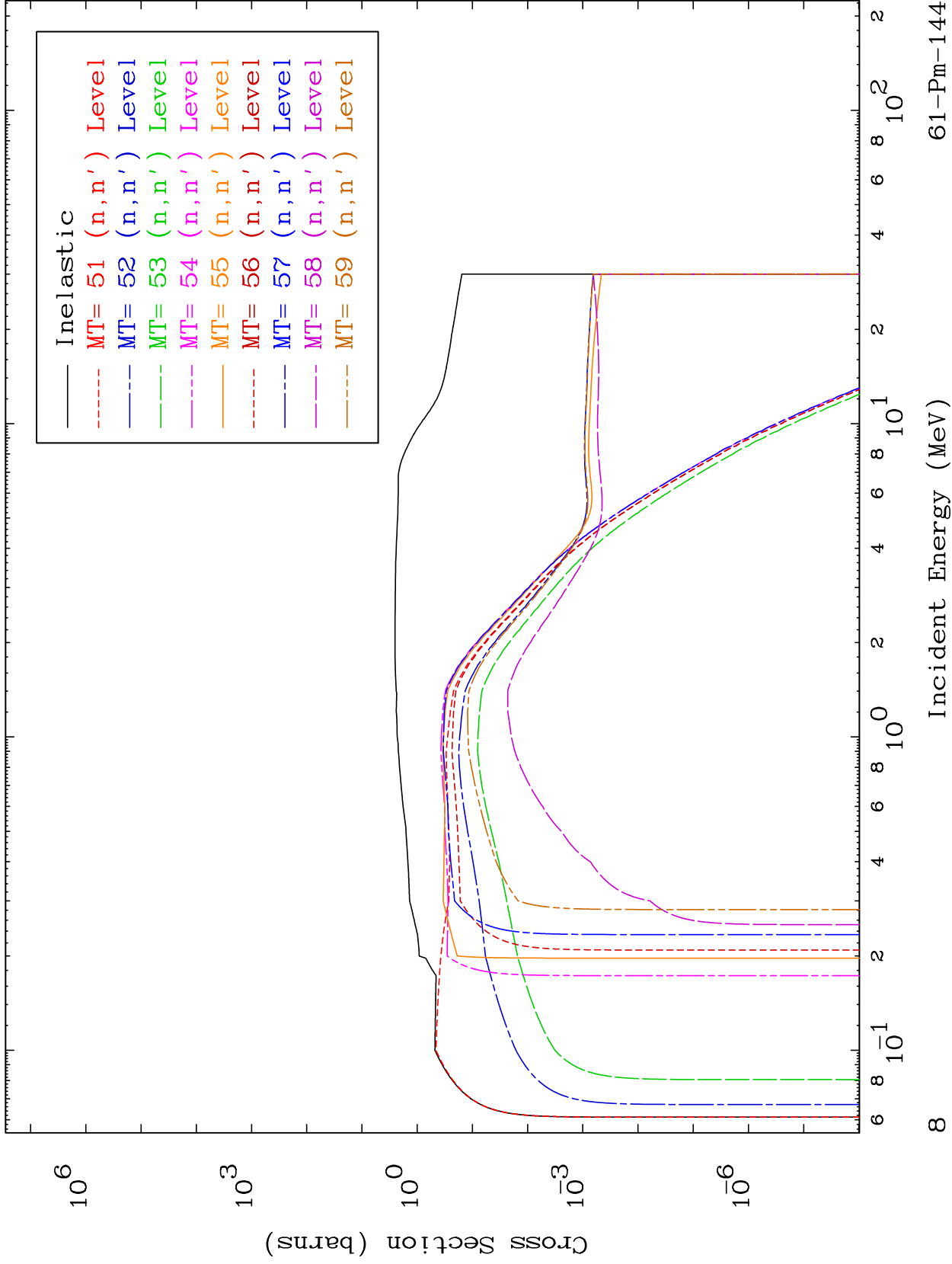


MAT 6140

(n,n') Levels

61-Pm-144

293 Kelvin Cross Sections



8

Incident Energy (MeV)

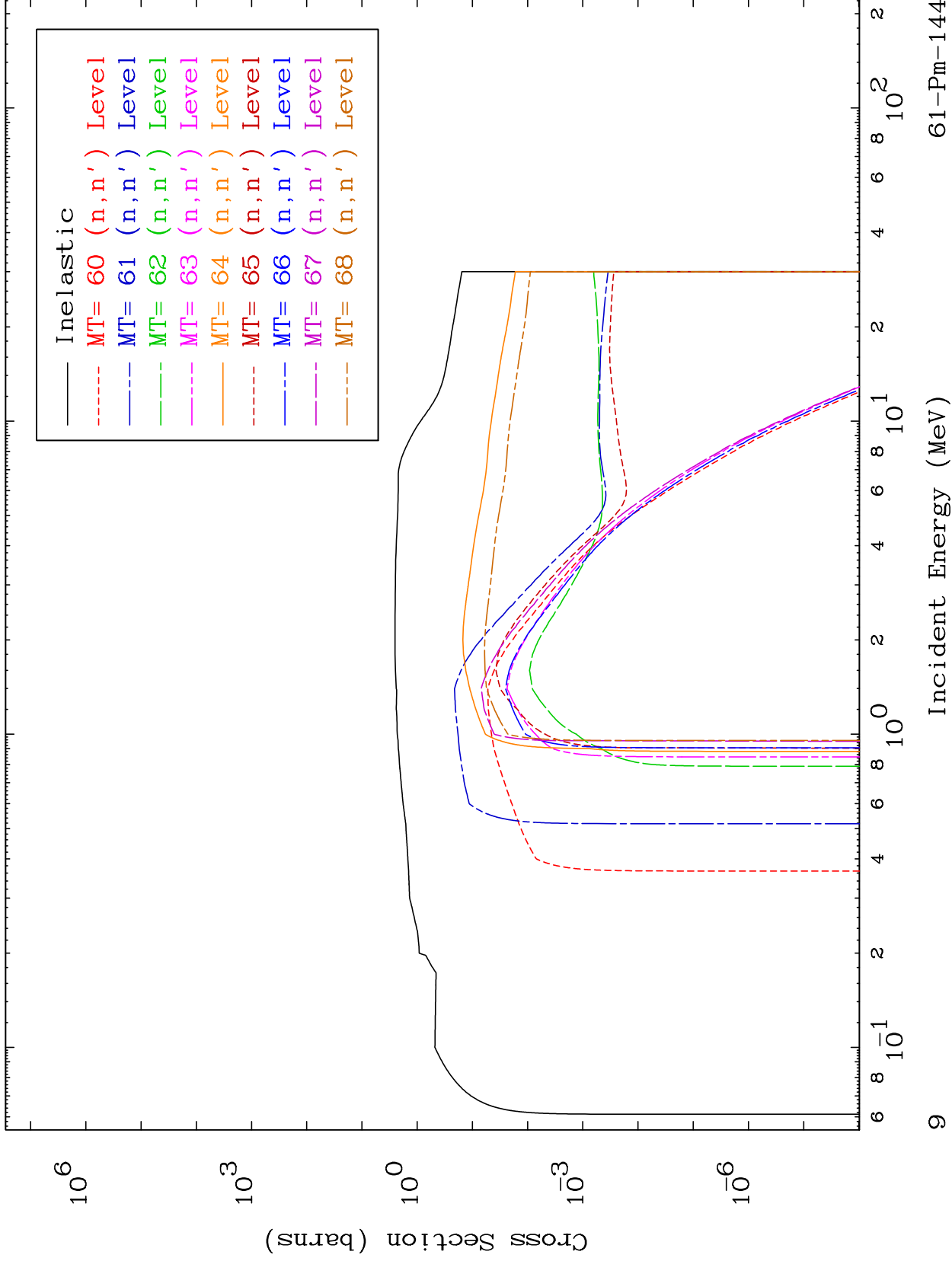
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MAT 6140

(n,n') Levels

61-Pm-144

293 Kelvin Cross Sections

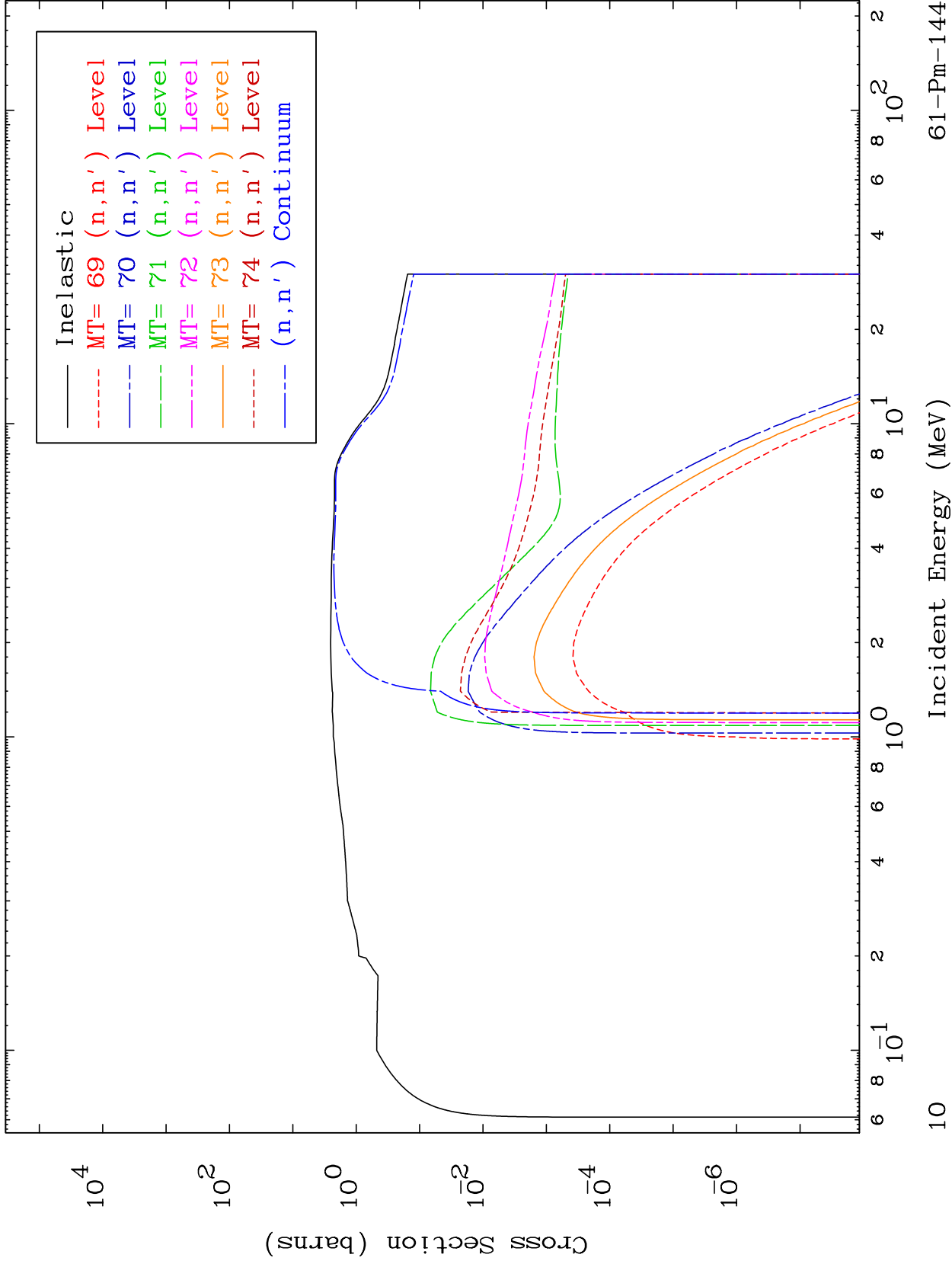


MAT 6140

(n,n') Levels

293 Kelvin Cross Sections

61-Pm-144



61-Pm-144

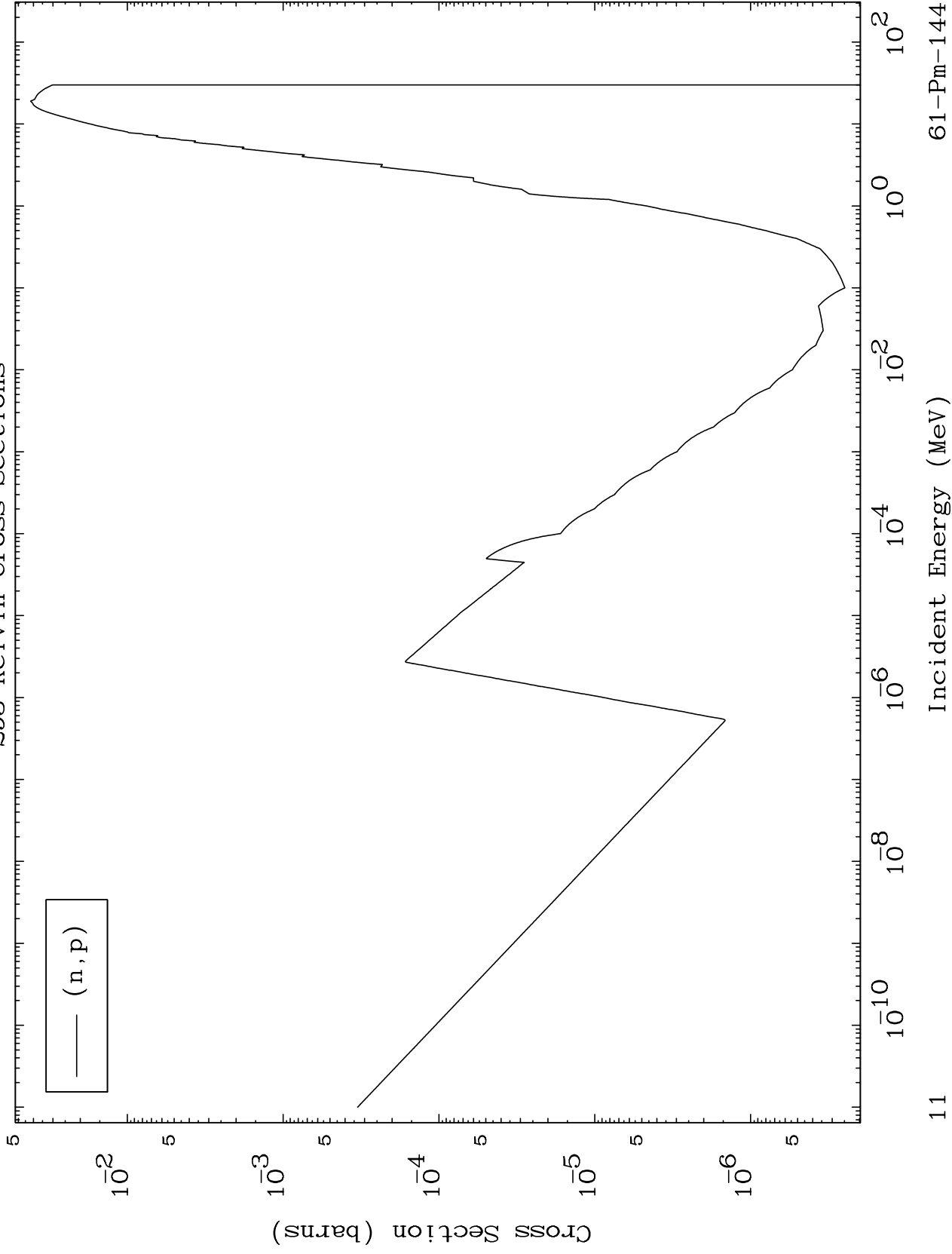
Incident Energy (MeV)

10

MAT 6140

(n,p) Levels
293 Kelvin Cross Sections

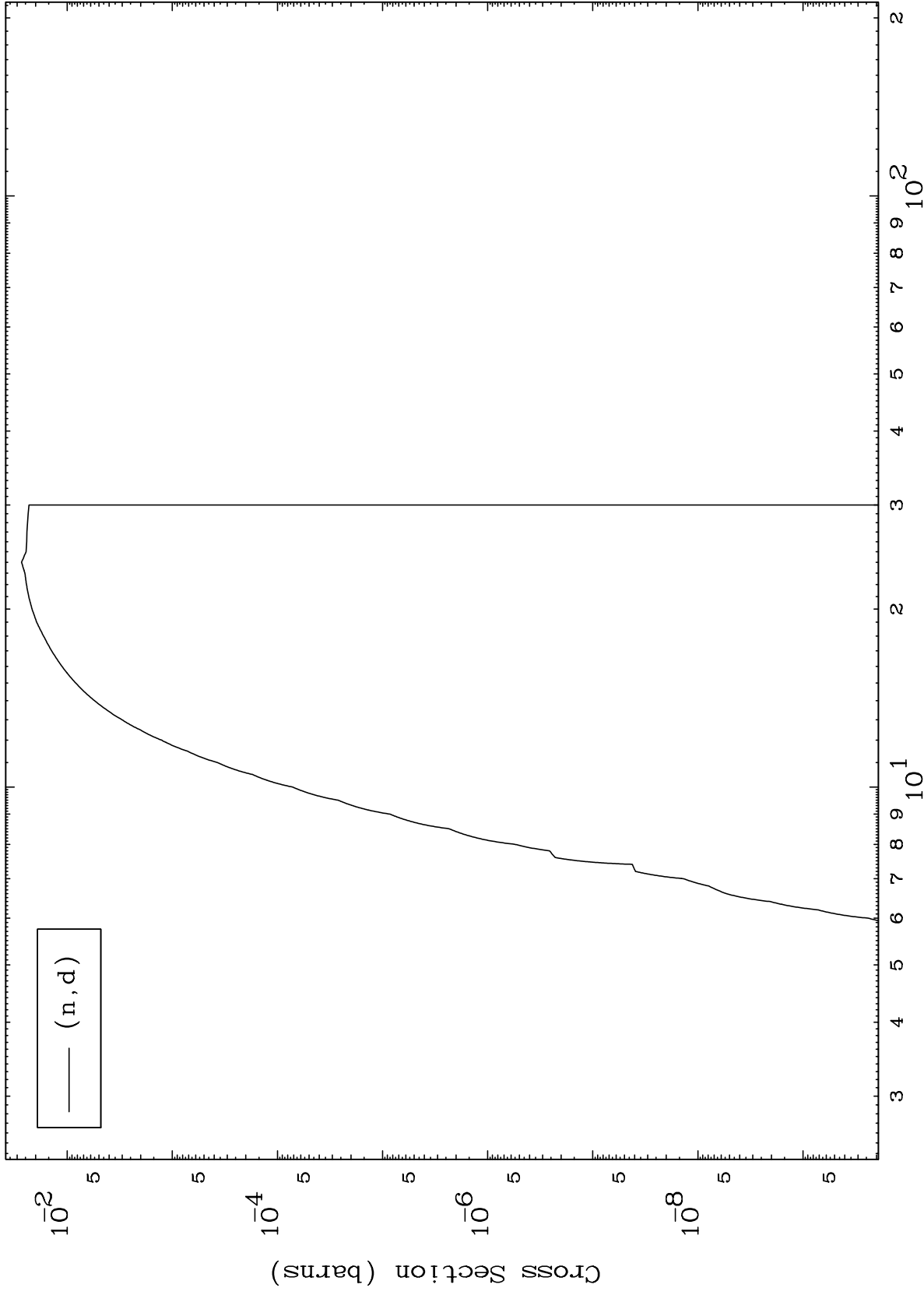
61-Pm-144



MAT 6140

(n,d) Levels
293 Kelvin Cross Sections

61-Pm-144



12

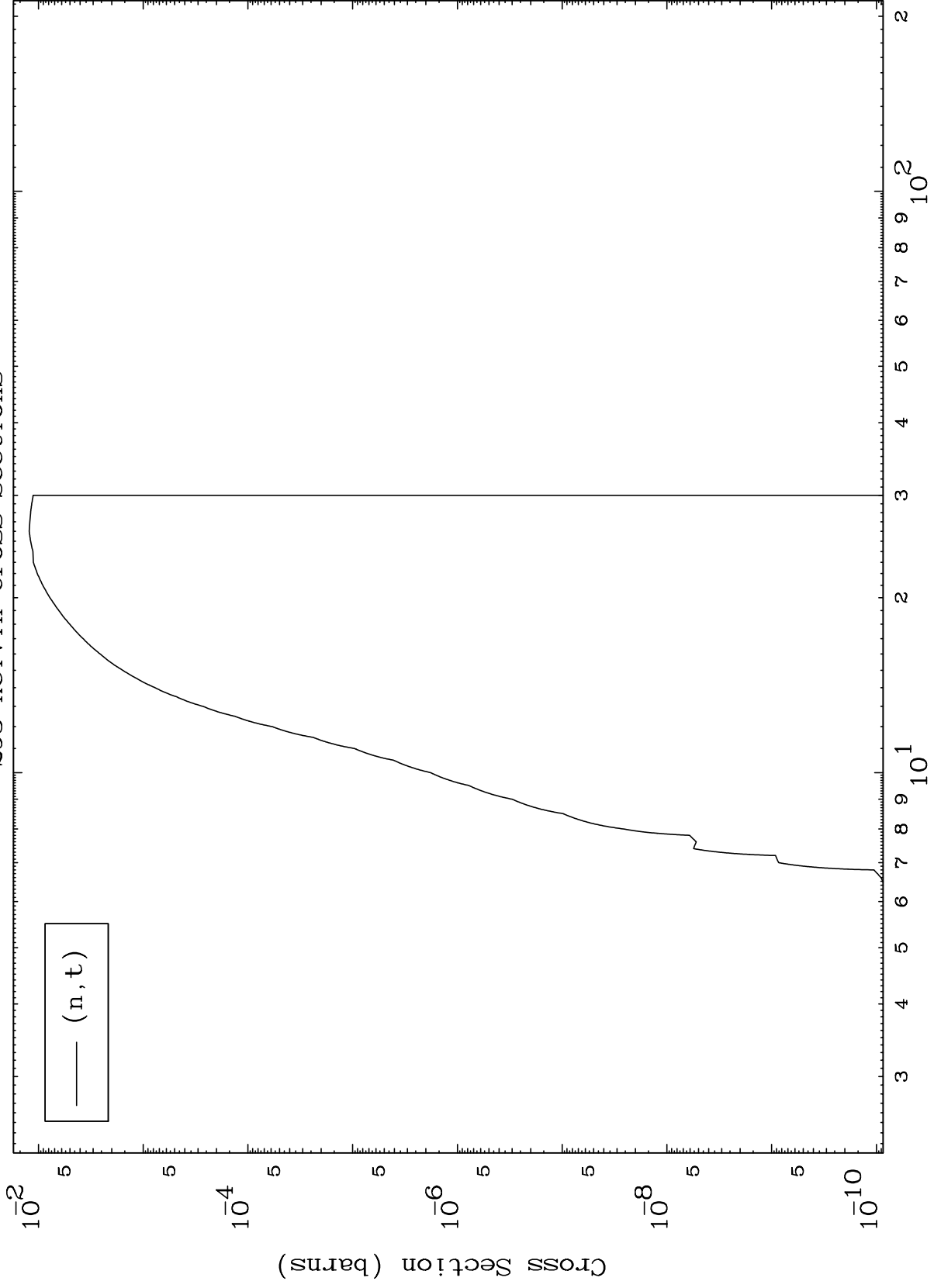
Incident Energy (MeV)

61-Pm-144

MAT 6140

(n,t) Levels
293 Kelvin Cross Sections

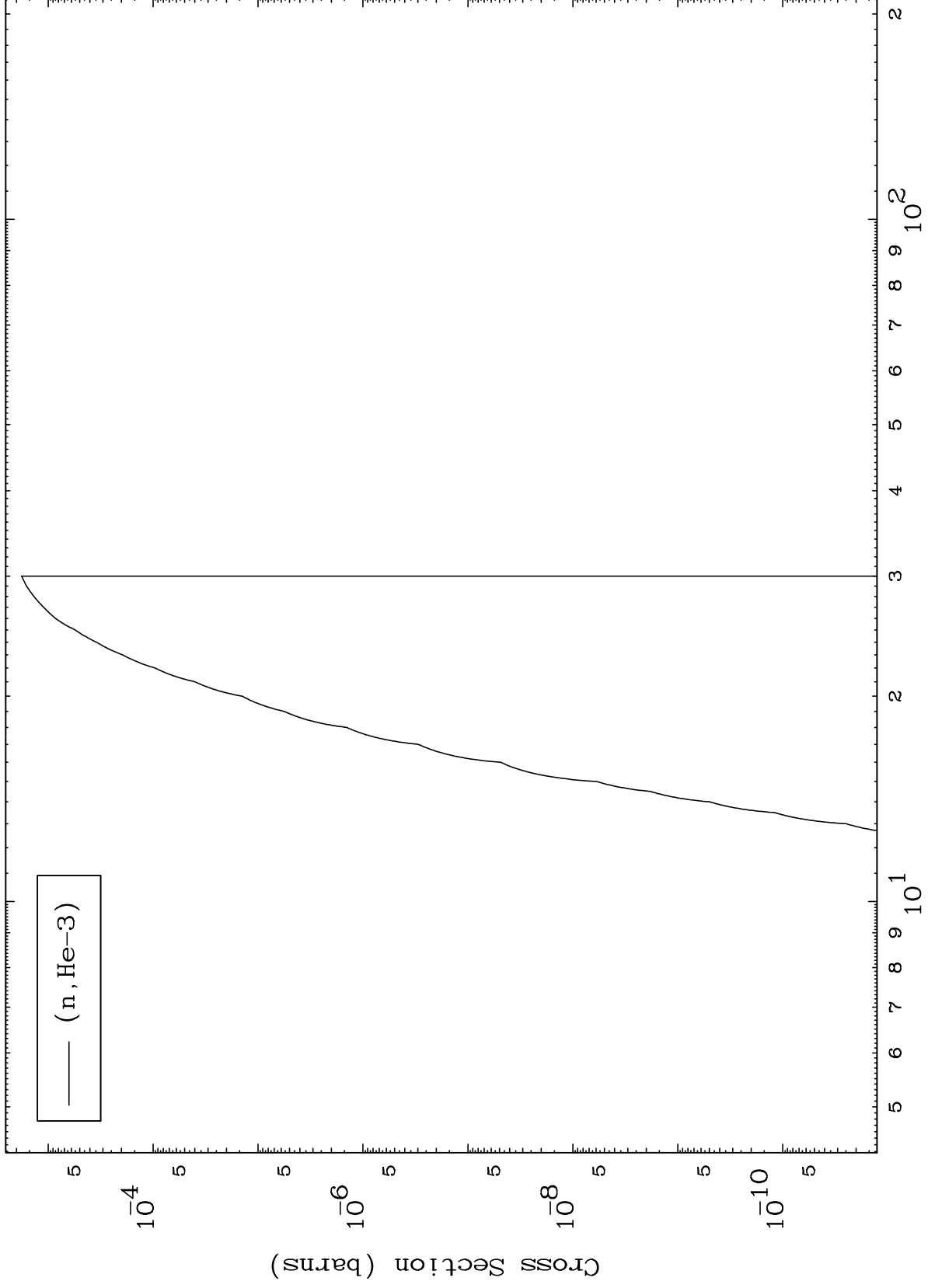
61-Pm-144



MAT 6140

(n,He3) Levels
293 Kelvin Cross Sections

61-Pm-144



14

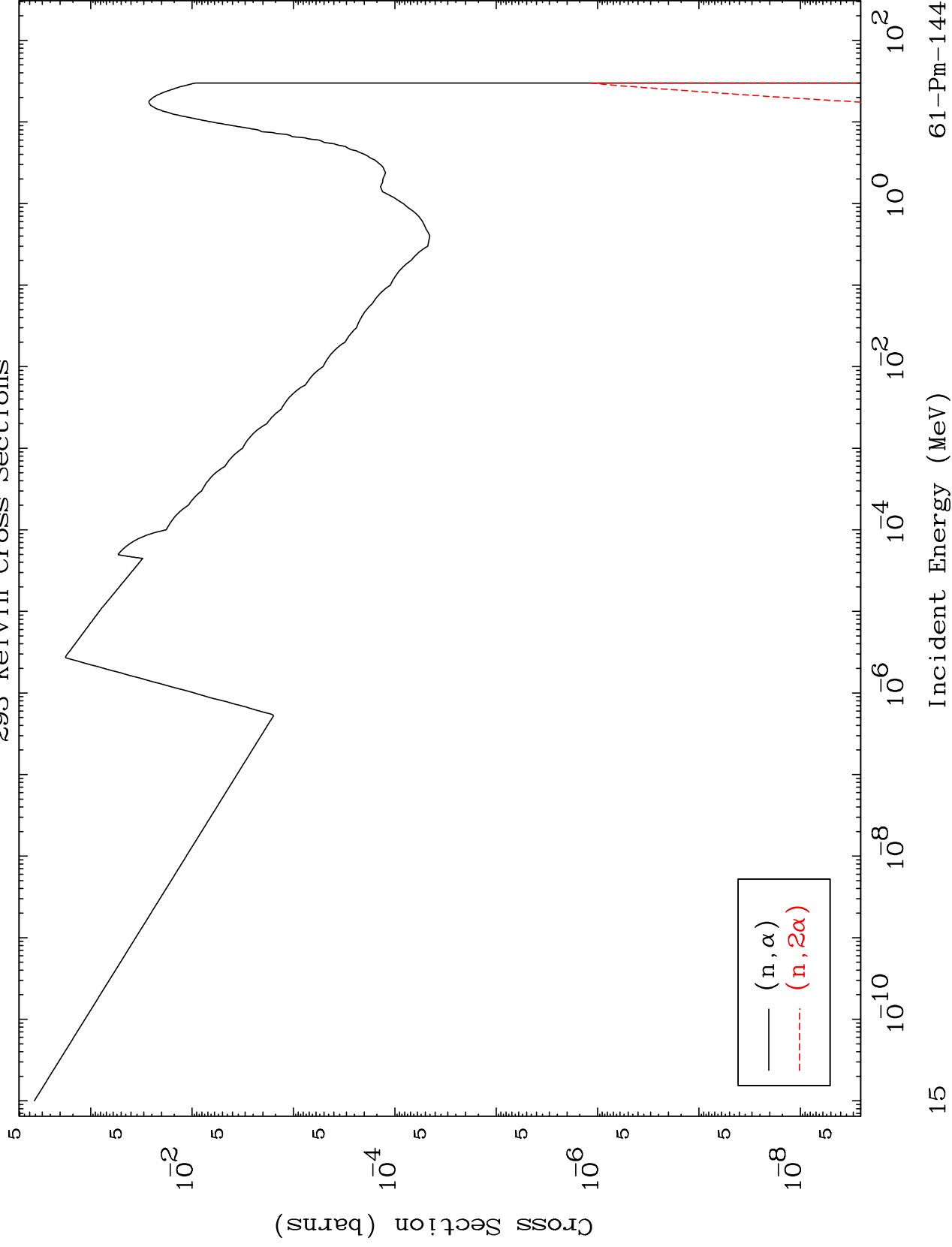
Incident Energy (MeV)

61-Pm-144

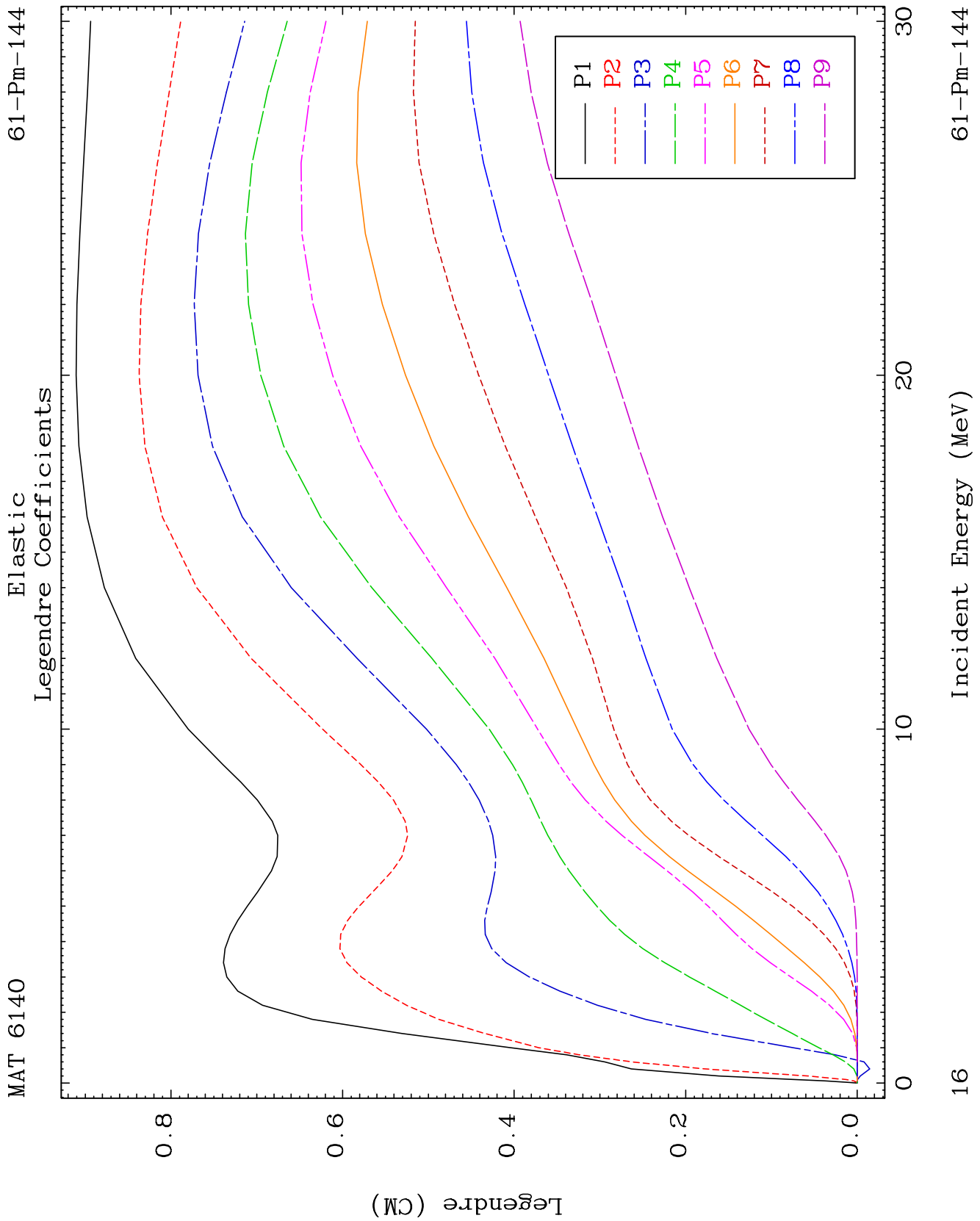
MAT 6140

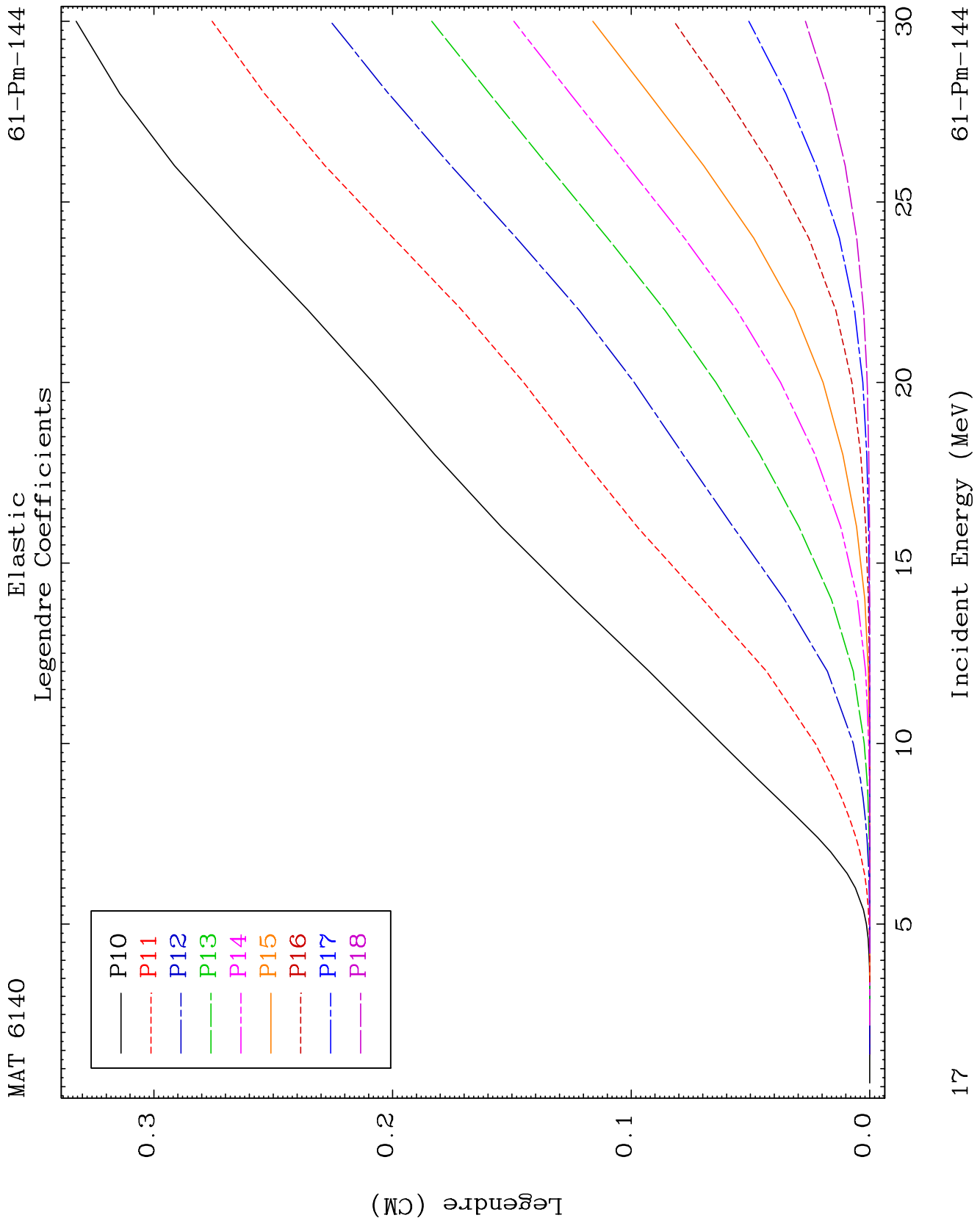
(n, α) Levels
293 Kelvin Cross Sections

61-Pm-144



15

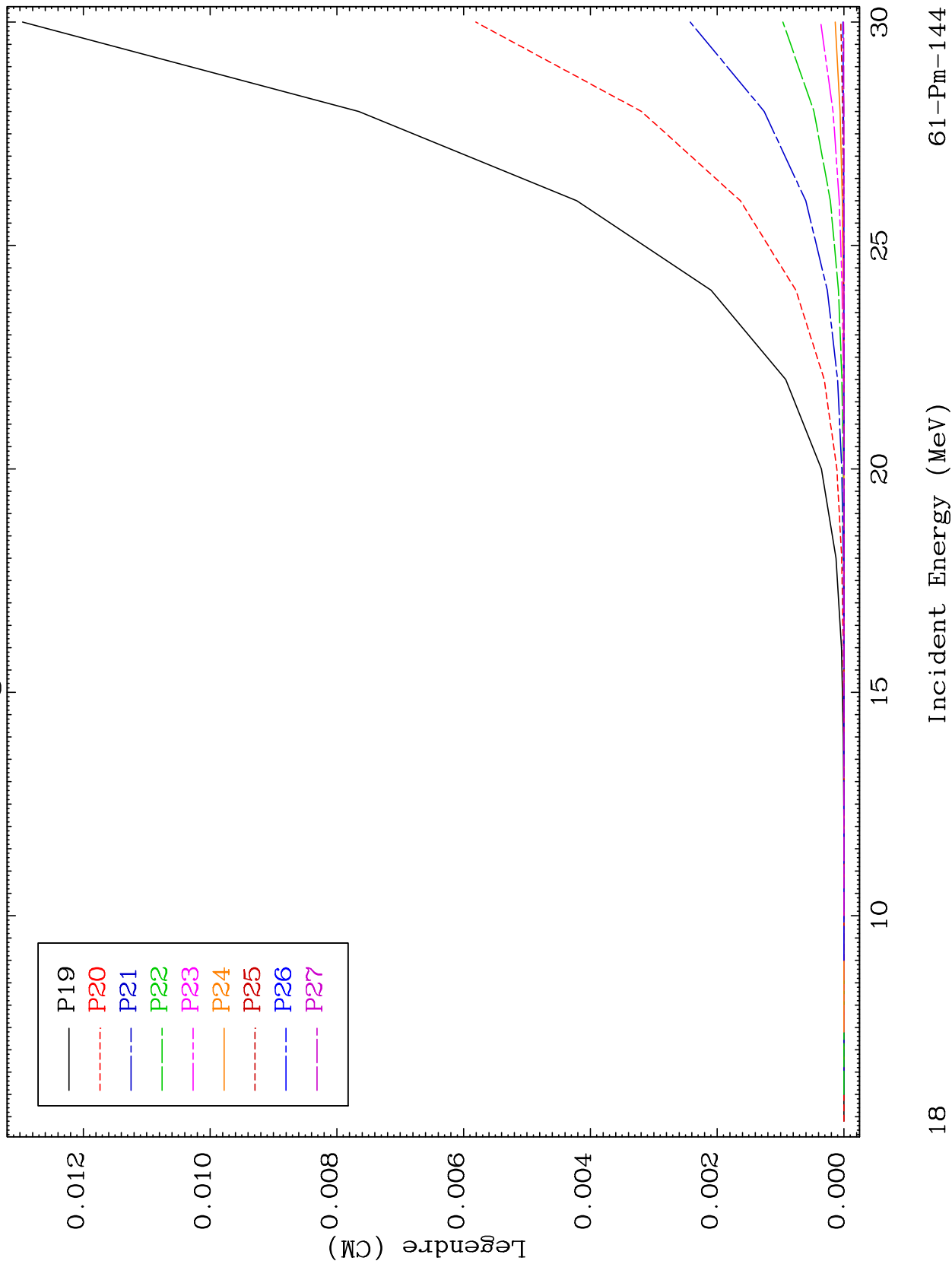




MAT 6140

Elastic Legendre Coefficients

61-Pm-144



18

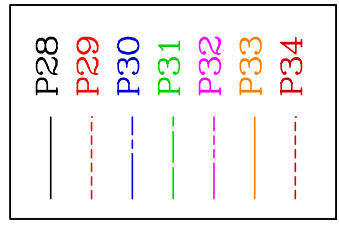
Incident Energy (MeV)

61-Pm-144

MAT 6140

Elastic Legendre Coefficients

61-Pm-144



$\times 10^{-6}$
1.5

Legendre (CM)

1.0

0.5

0.0

10

15

20

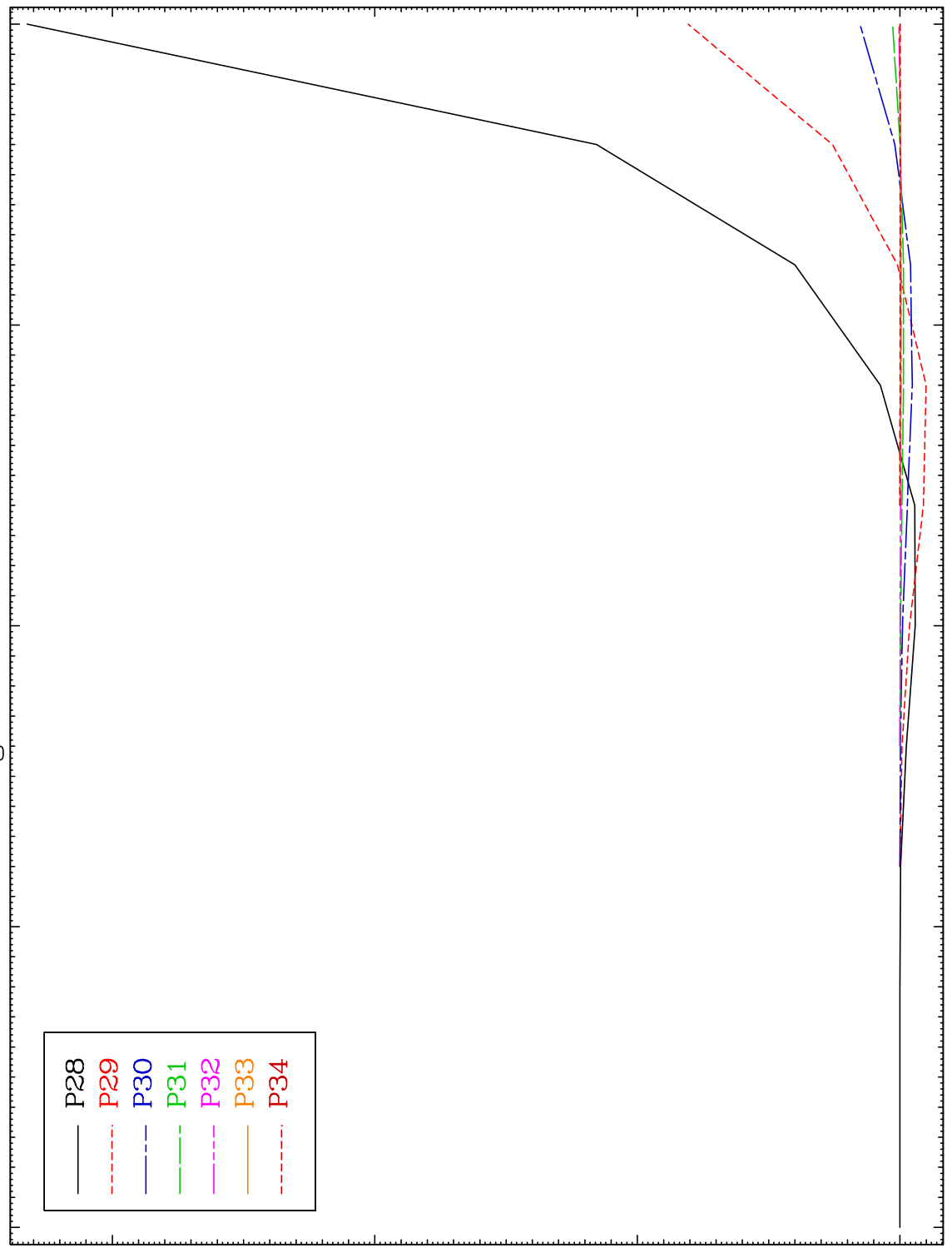
25

30

19

Incident Energy (MeV)

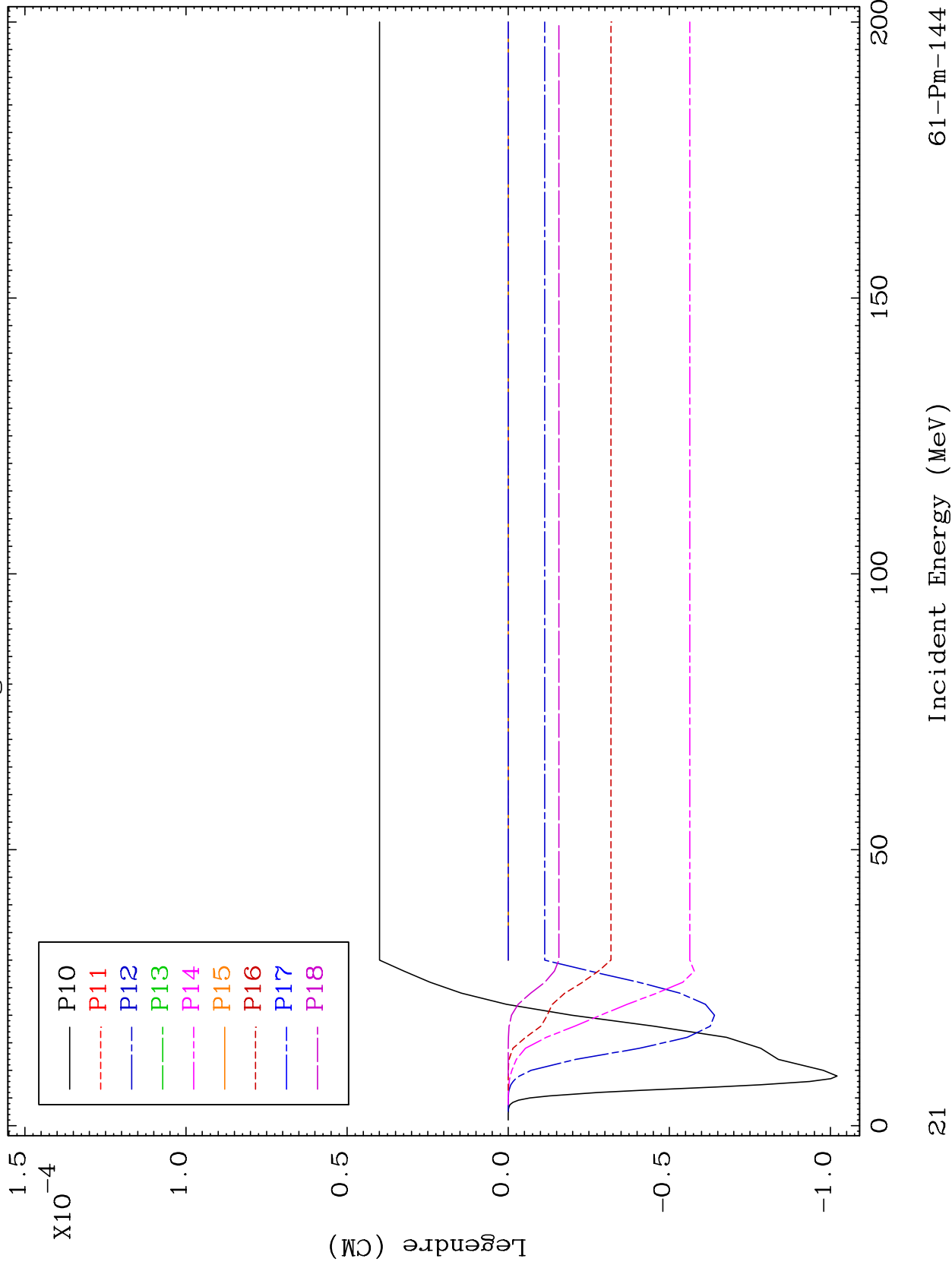
61-Pm-144



MAT 6140

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

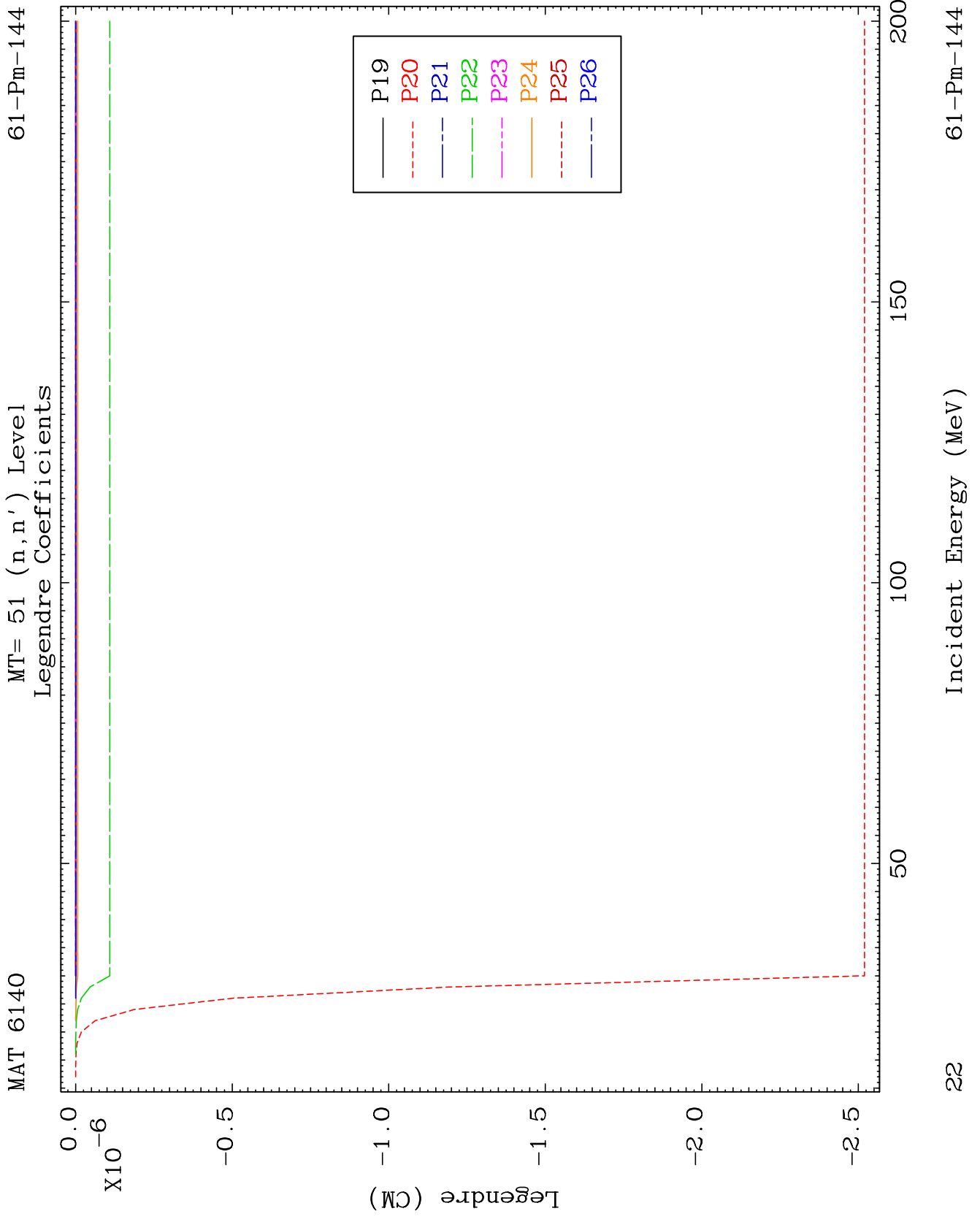
61-Pm-144



21

Incident Energy (MeV)

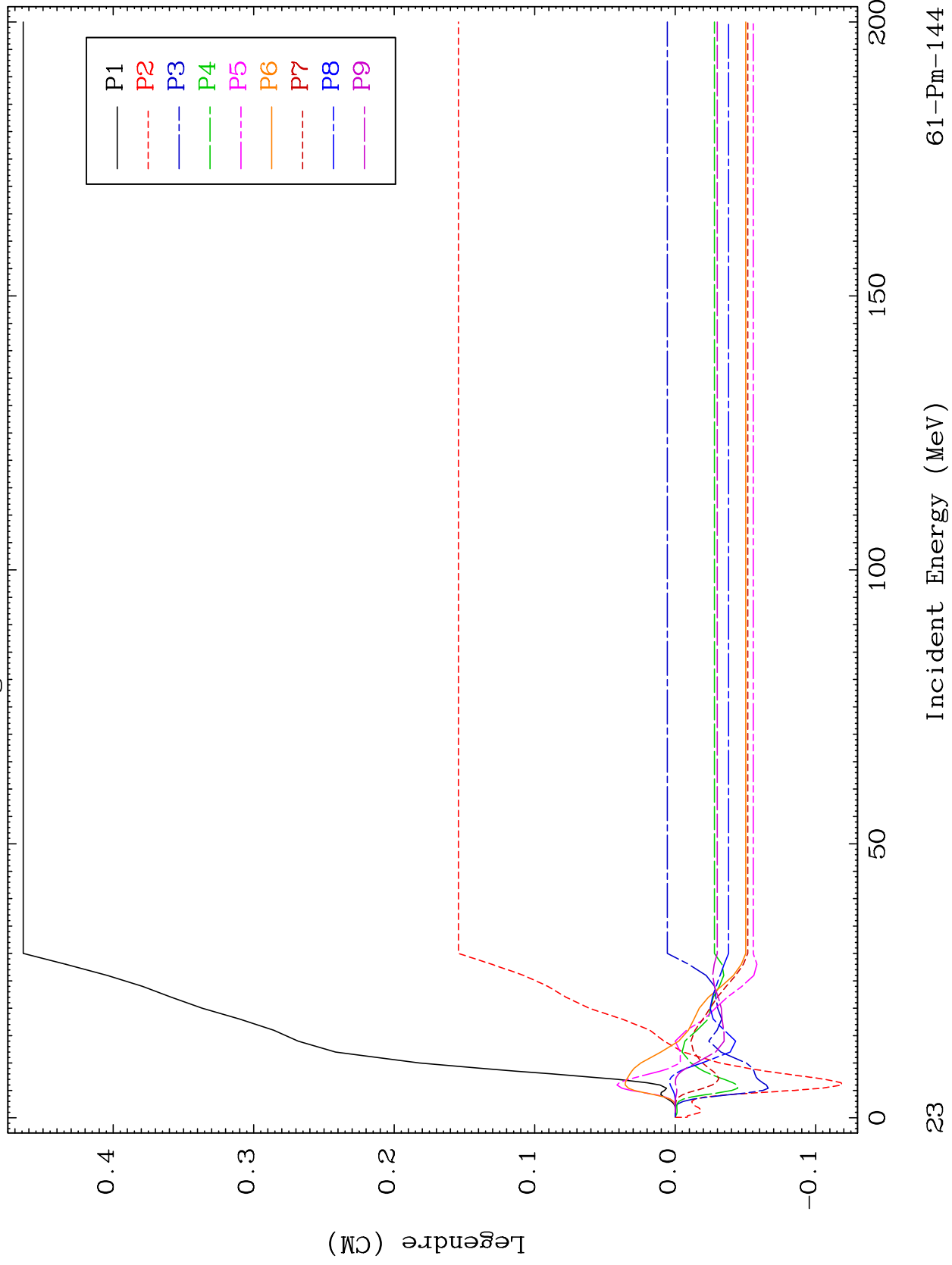
61-Pm-144



MAT 6140

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

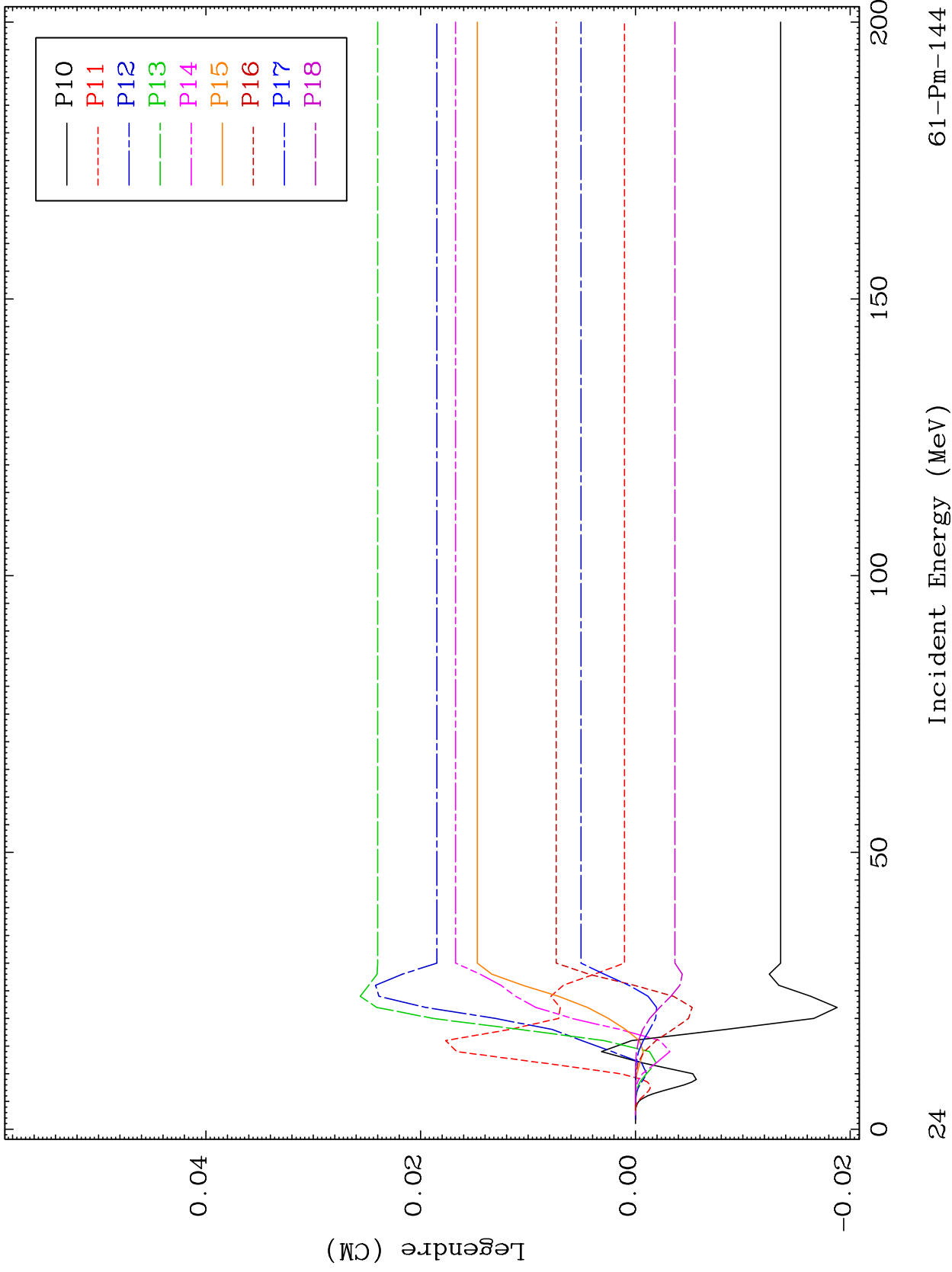
61-Pm-144



MAT 6140

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

61-Pm-144



61-Pm-144

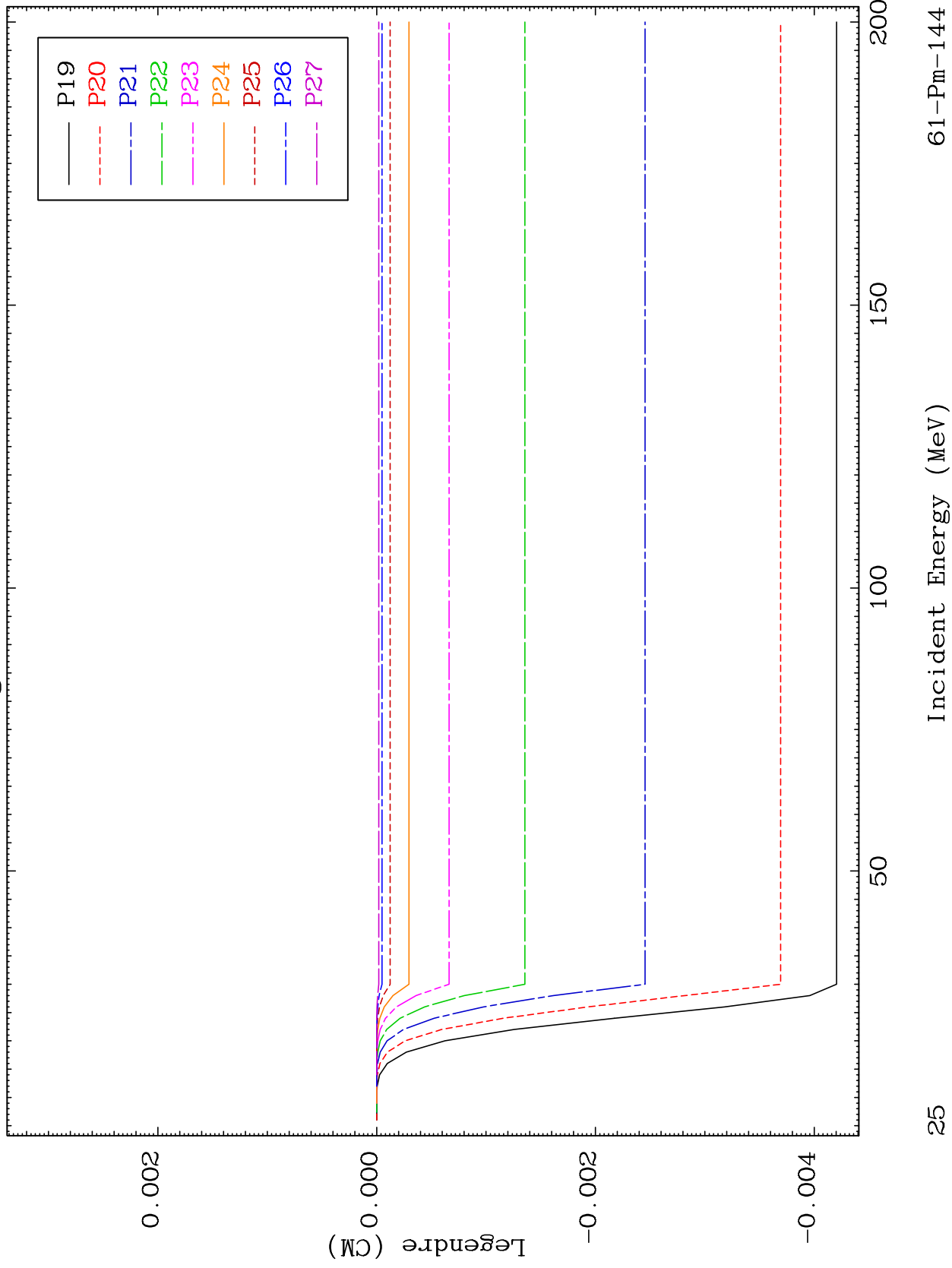
Incident Energy (MeV)

24

MAT 6140

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

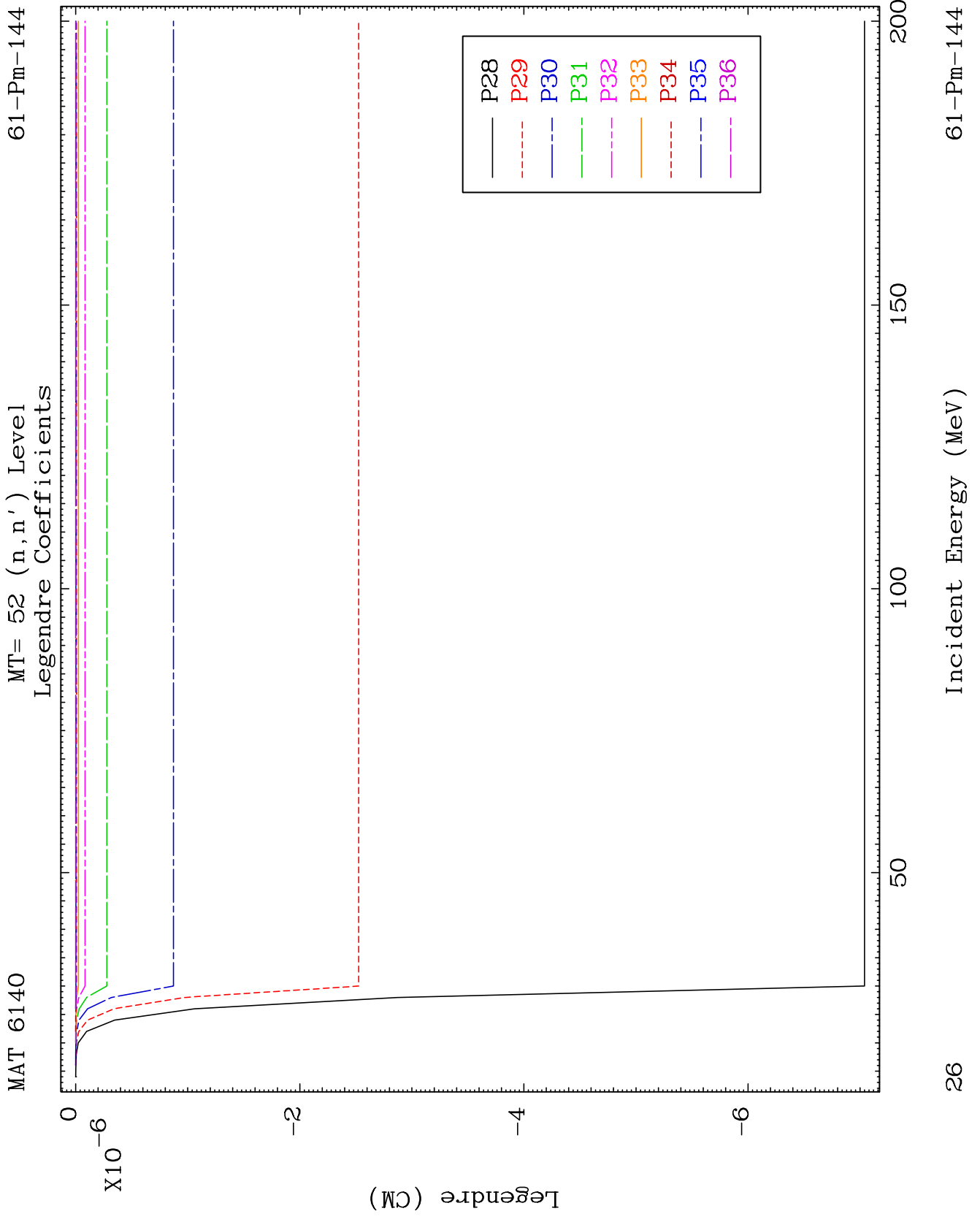
61-Pm-144



61-Pm-144

Incident Energy (MeV)

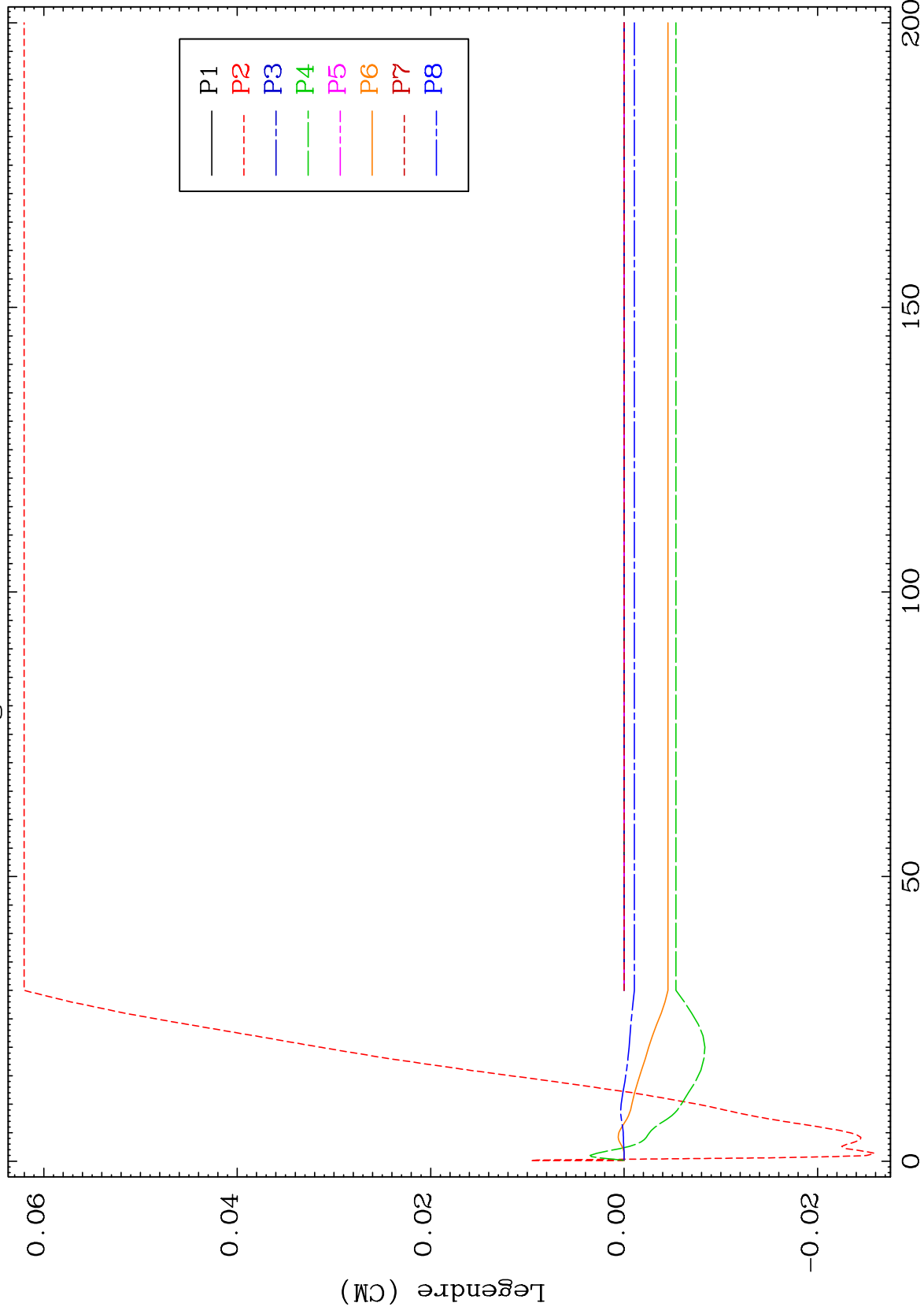
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MAT 6140

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

61-Pm-144



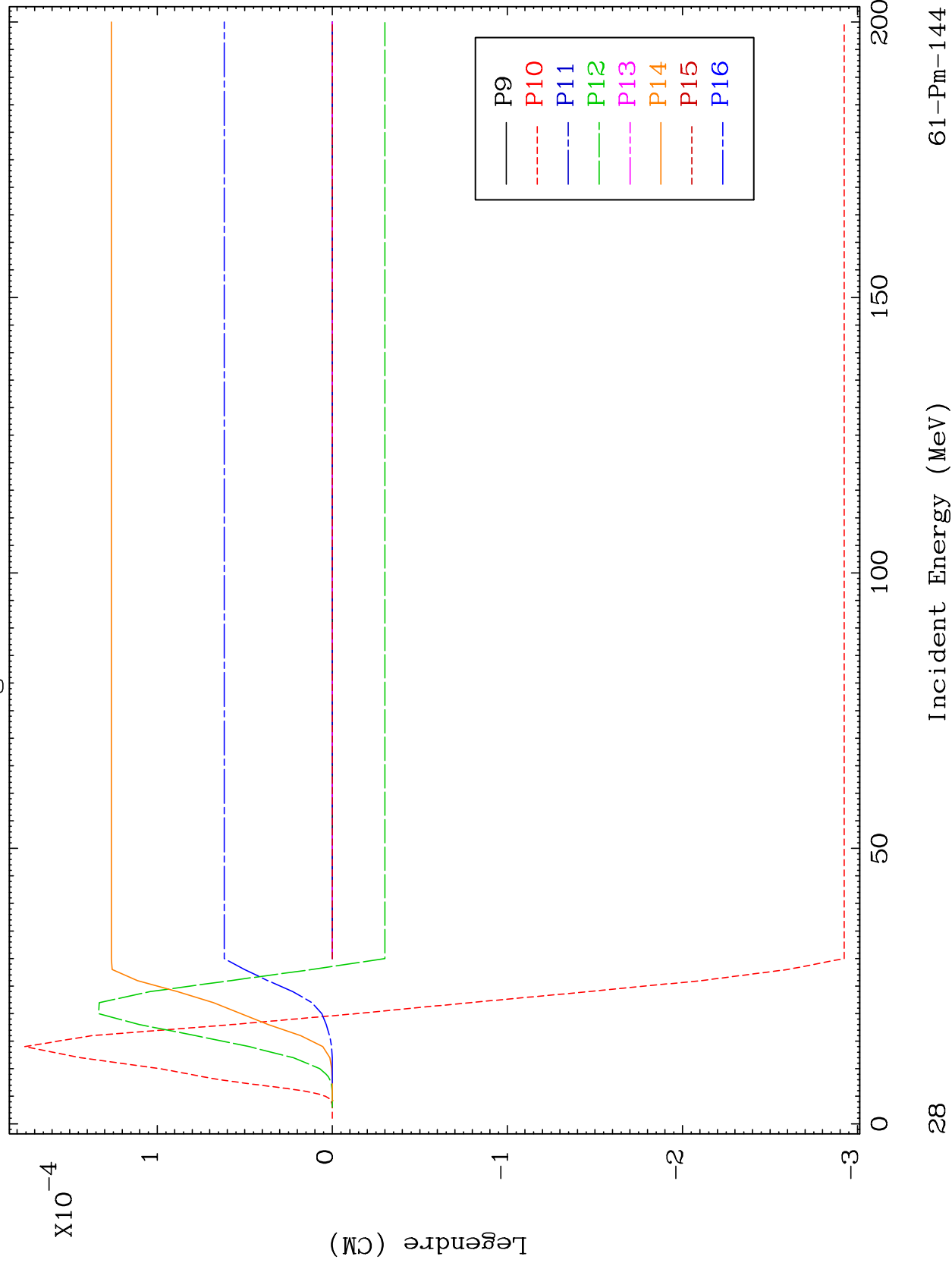
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61-Pm-144

MAT 6140

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

61-Pm-144



61-Pm-144

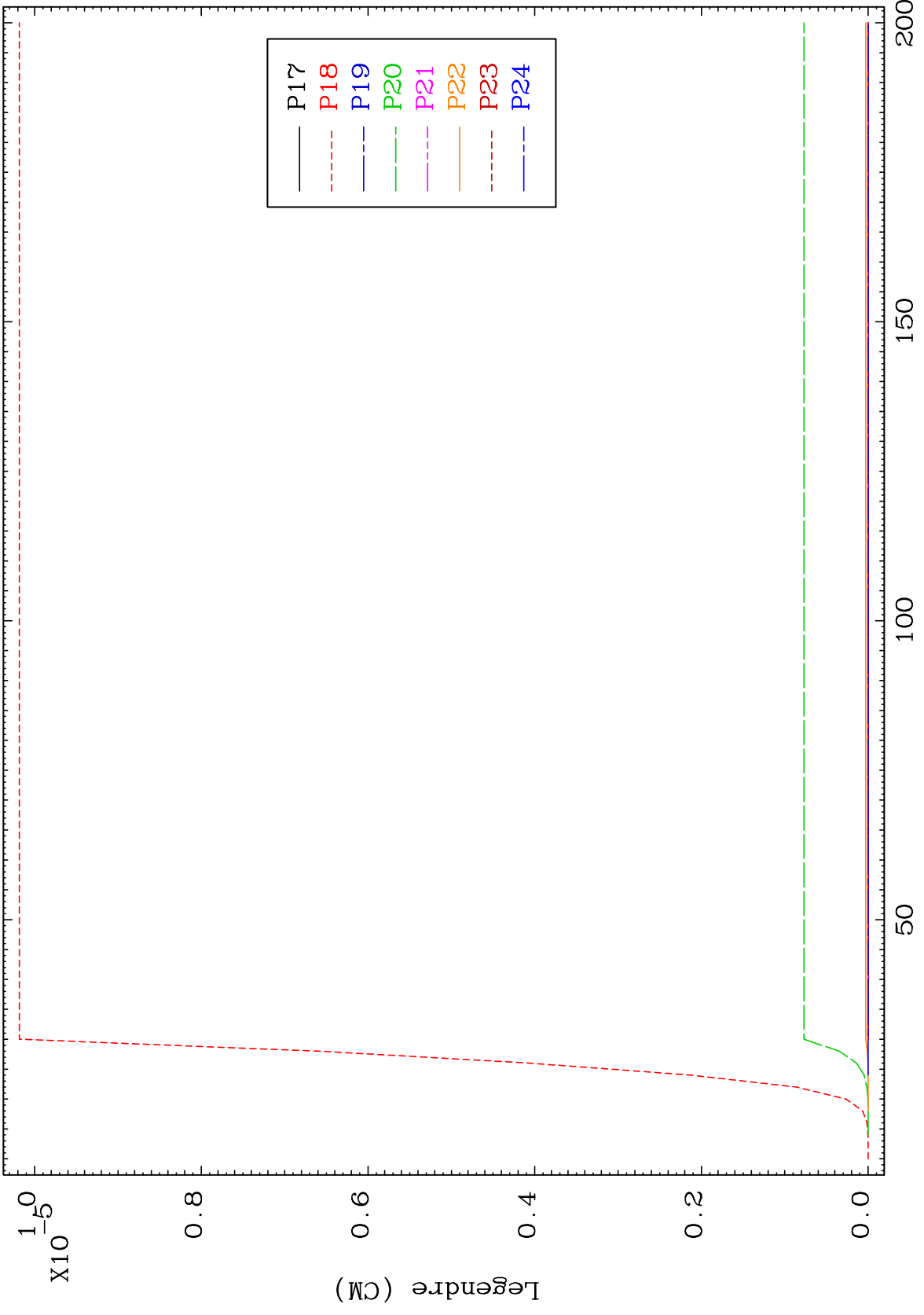
Incident Energy (MeV)

28

MAT 6140

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

61-Pm-144



61-Pm-144

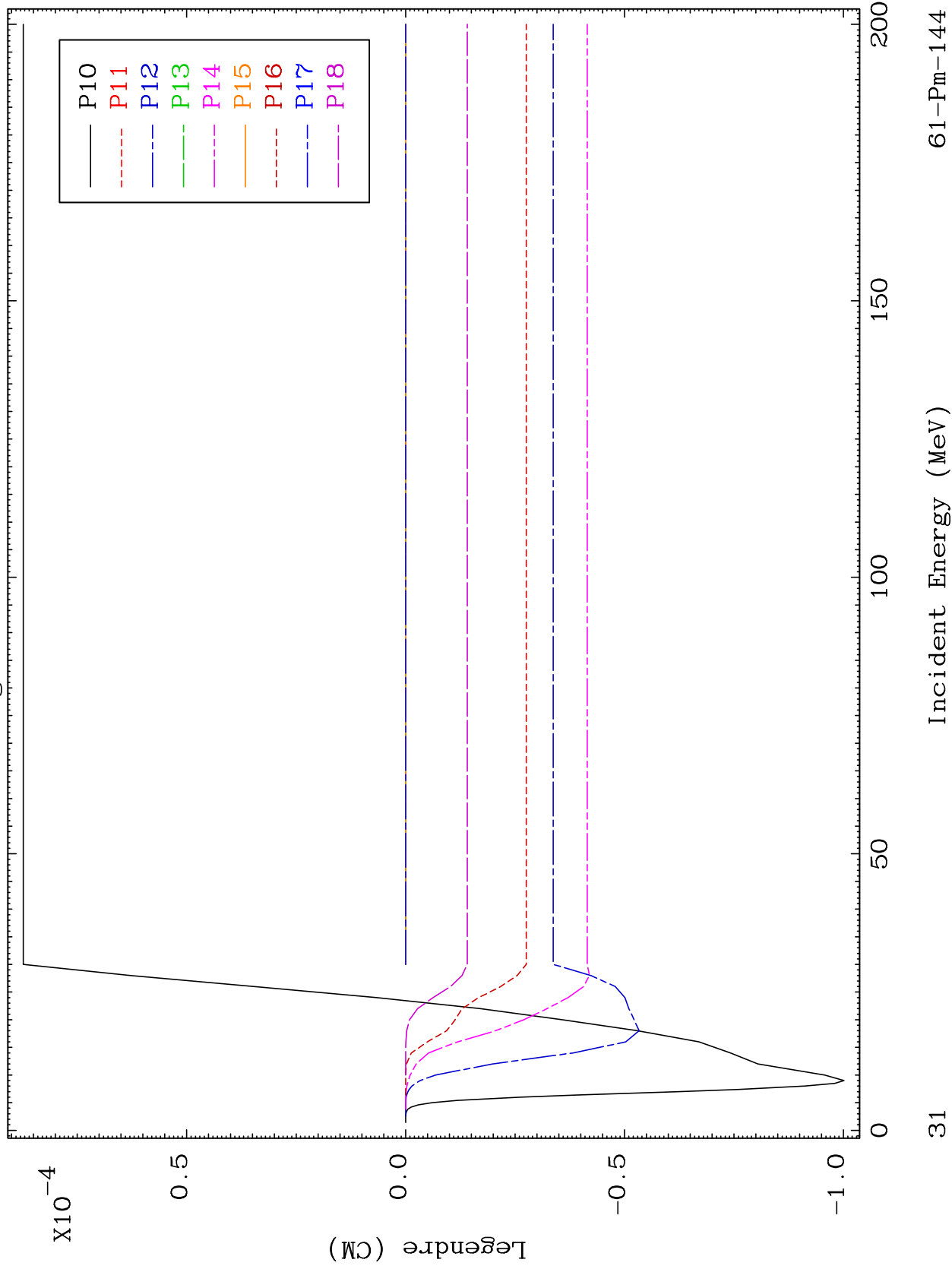
Incident Energy (MeV)

29

MAT 6140

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

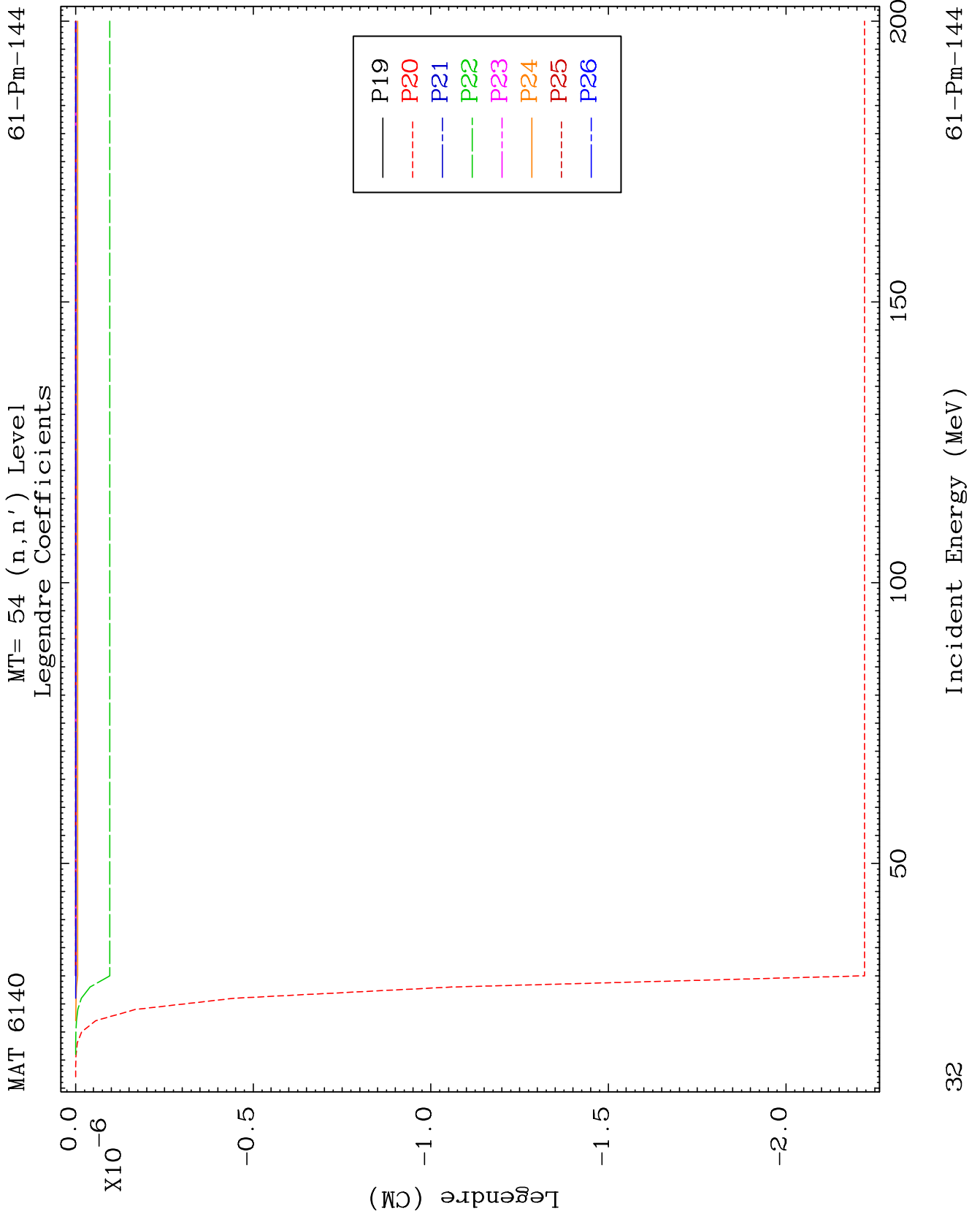
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61-Pm-144

Incident Energy (MeV)

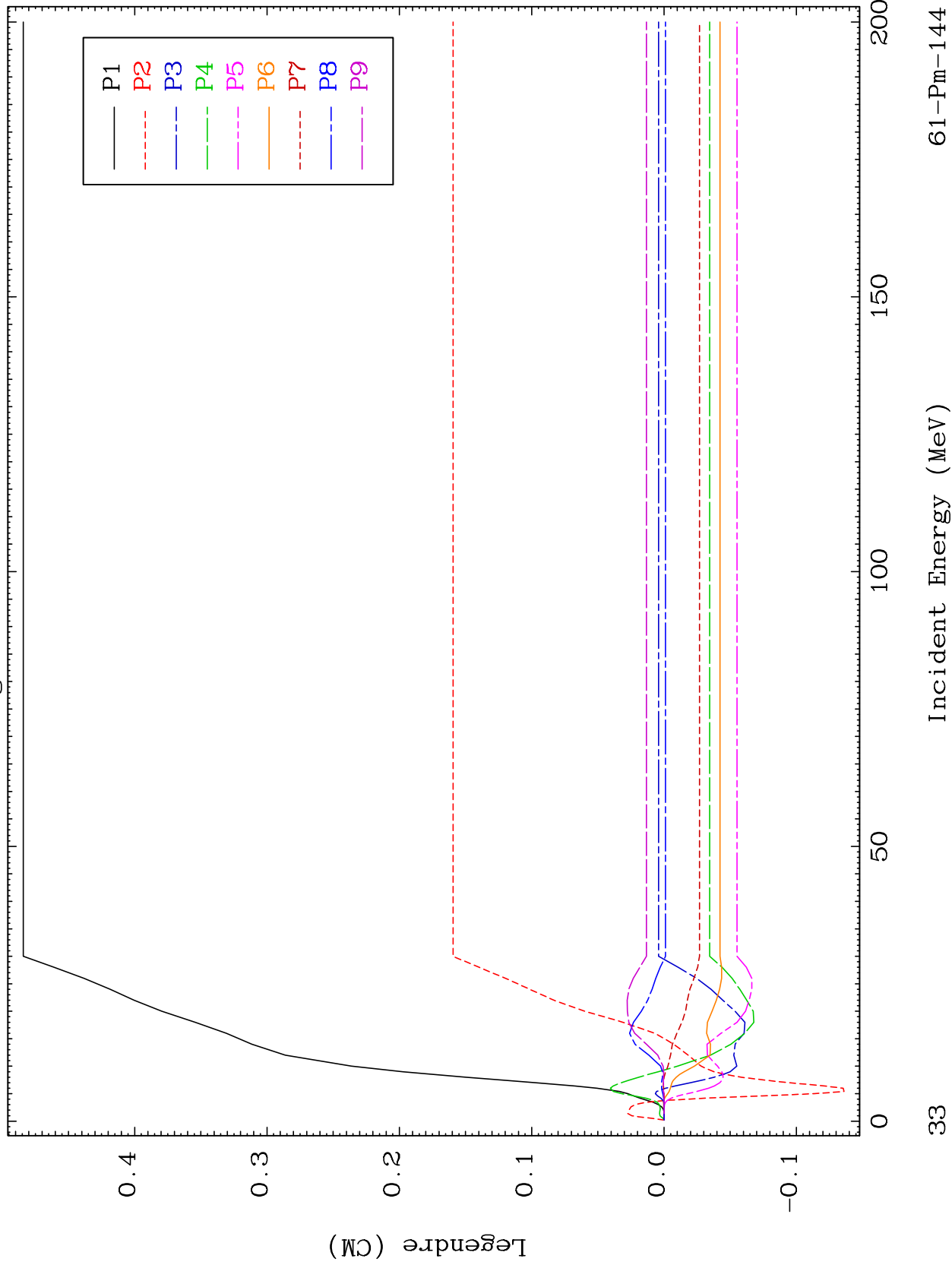
31



MAT 6140

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

61-Pm-144



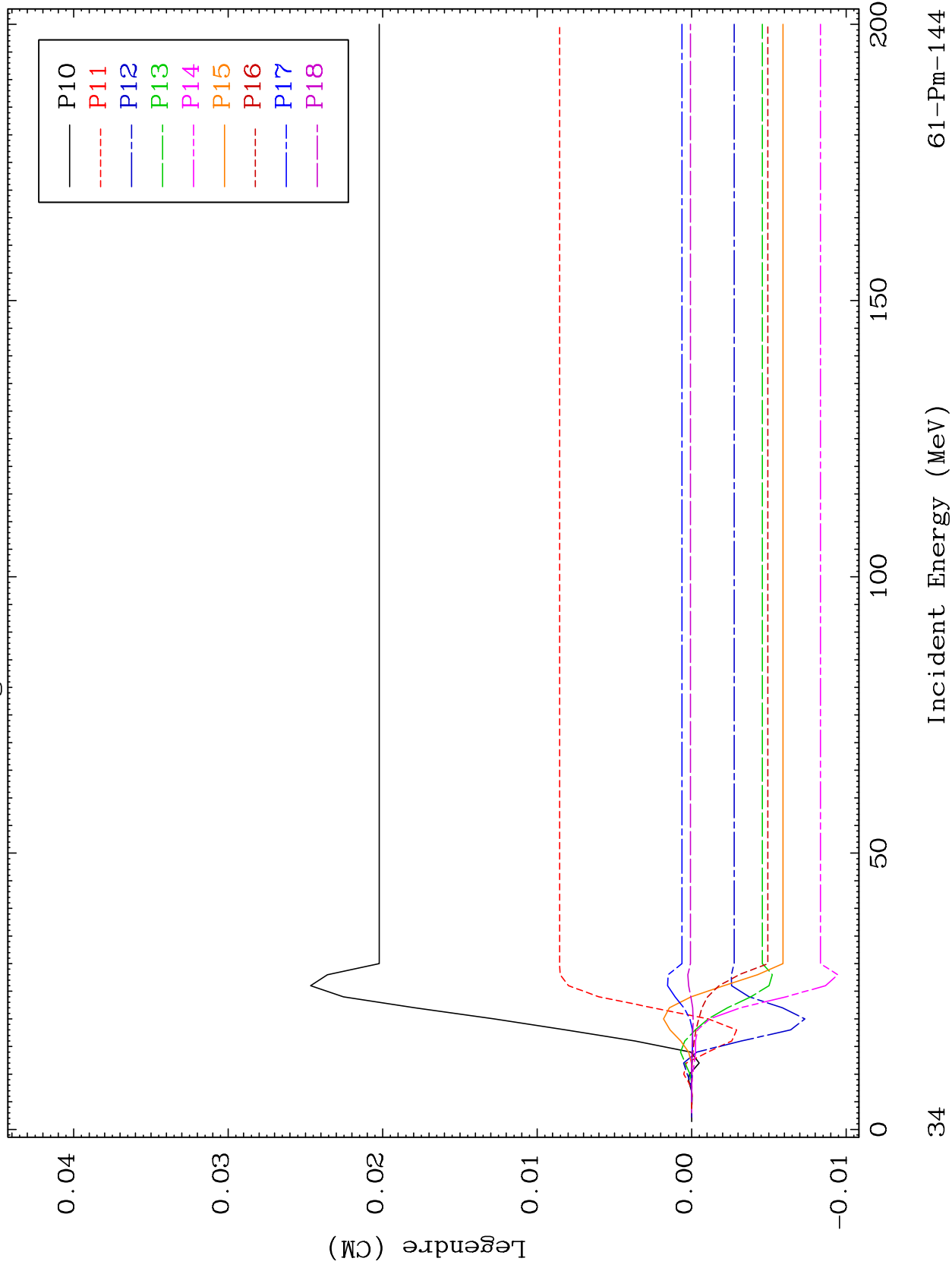
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61-Pm-144

MAT 6140

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

61-Pm-144



34

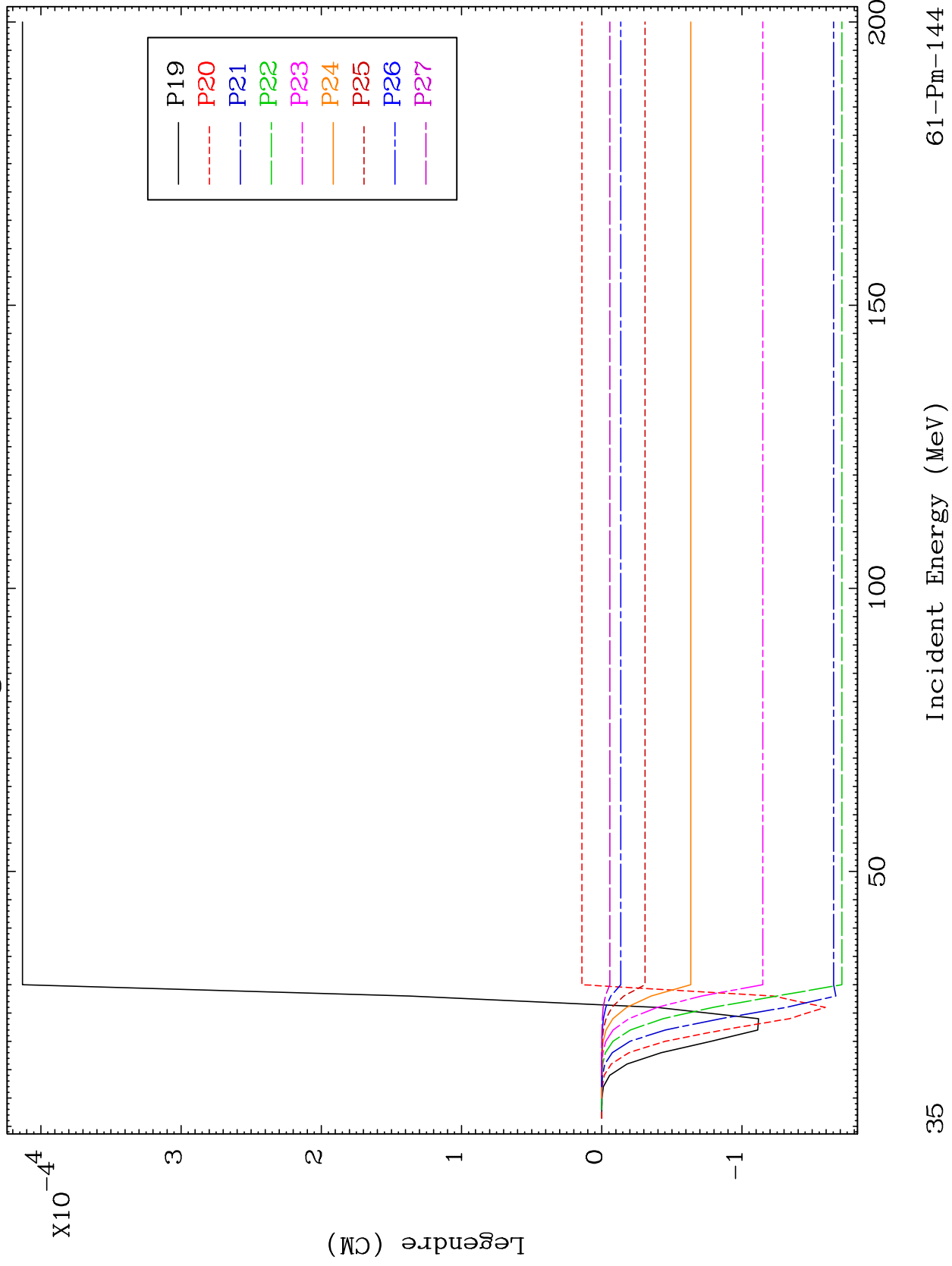
Incident Energy (MeV)

61-Pm-144

MAT 6140

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

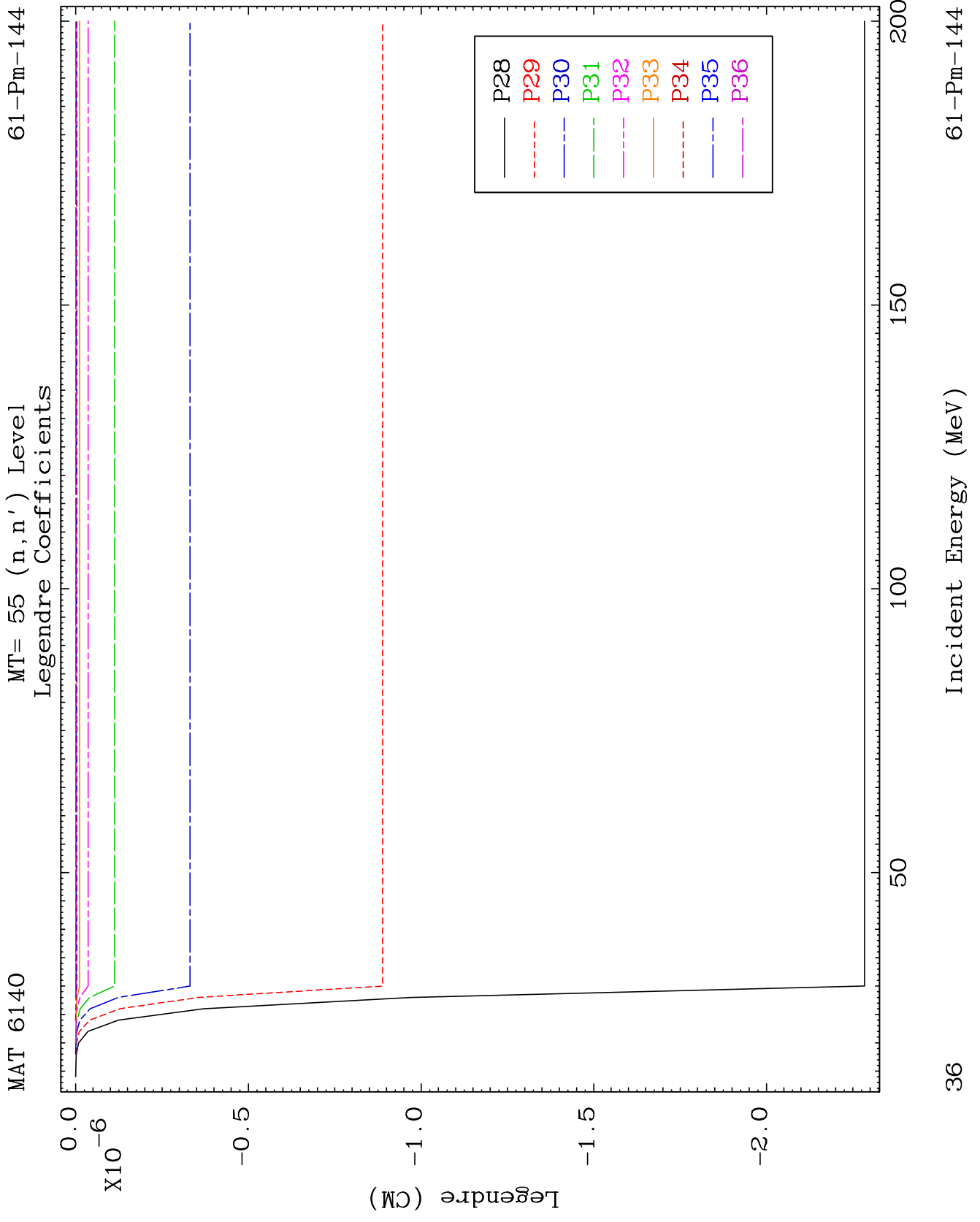
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35

Incident Energy (MeV)

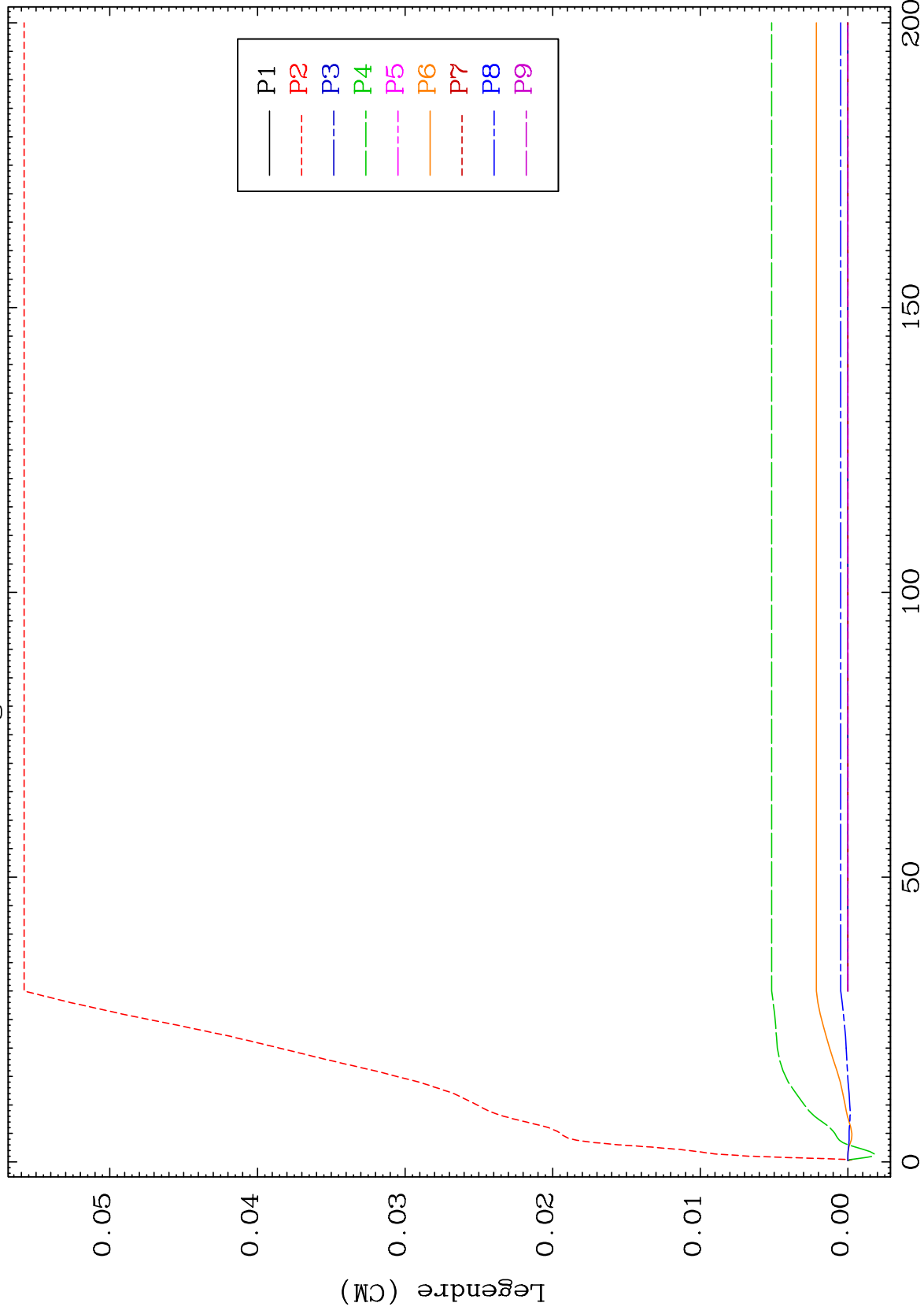
61-Pm-144



MAT 6140

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

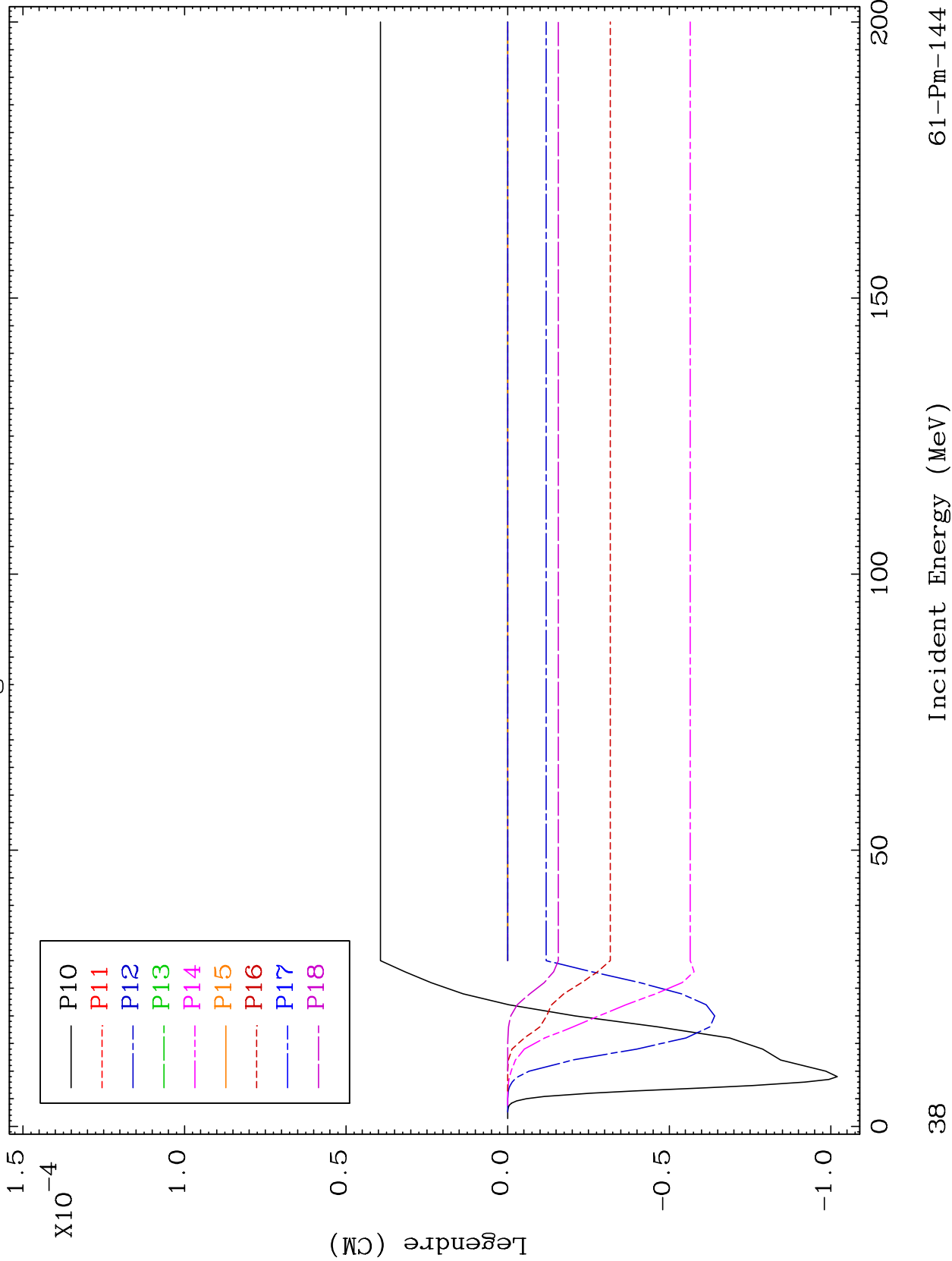
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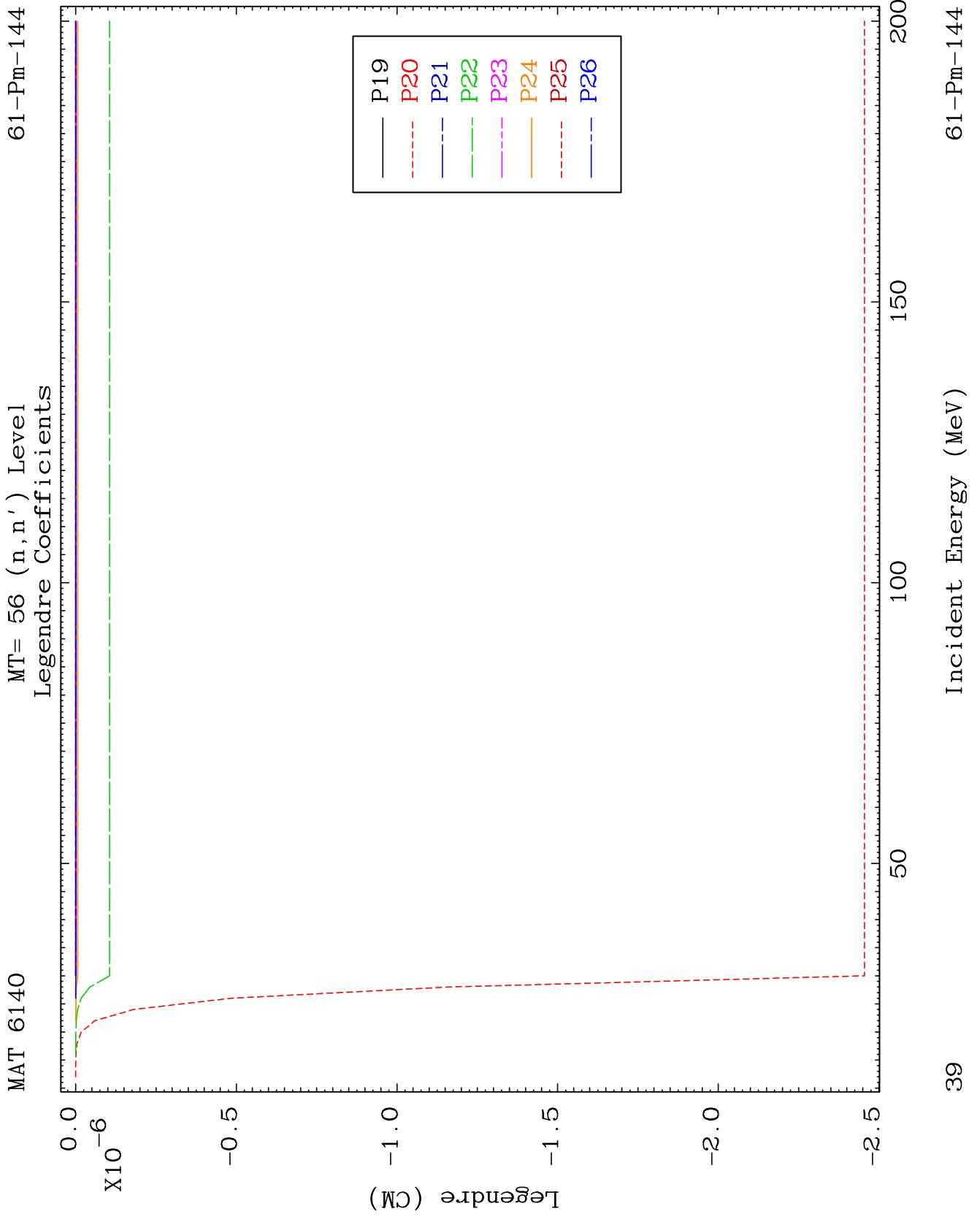


37

Incident Energy (MeV)

61-Pm-144

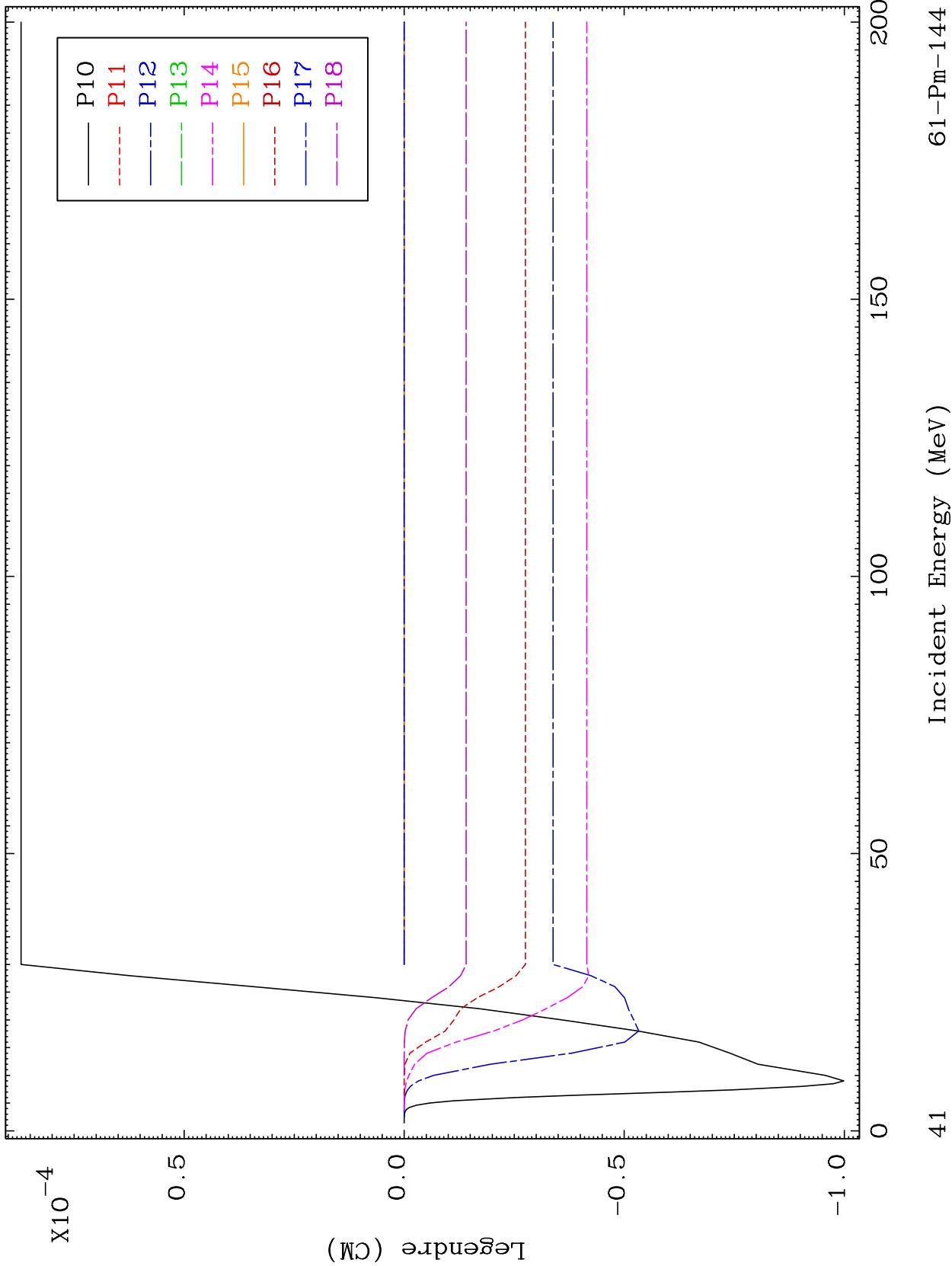




MAT 6140

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

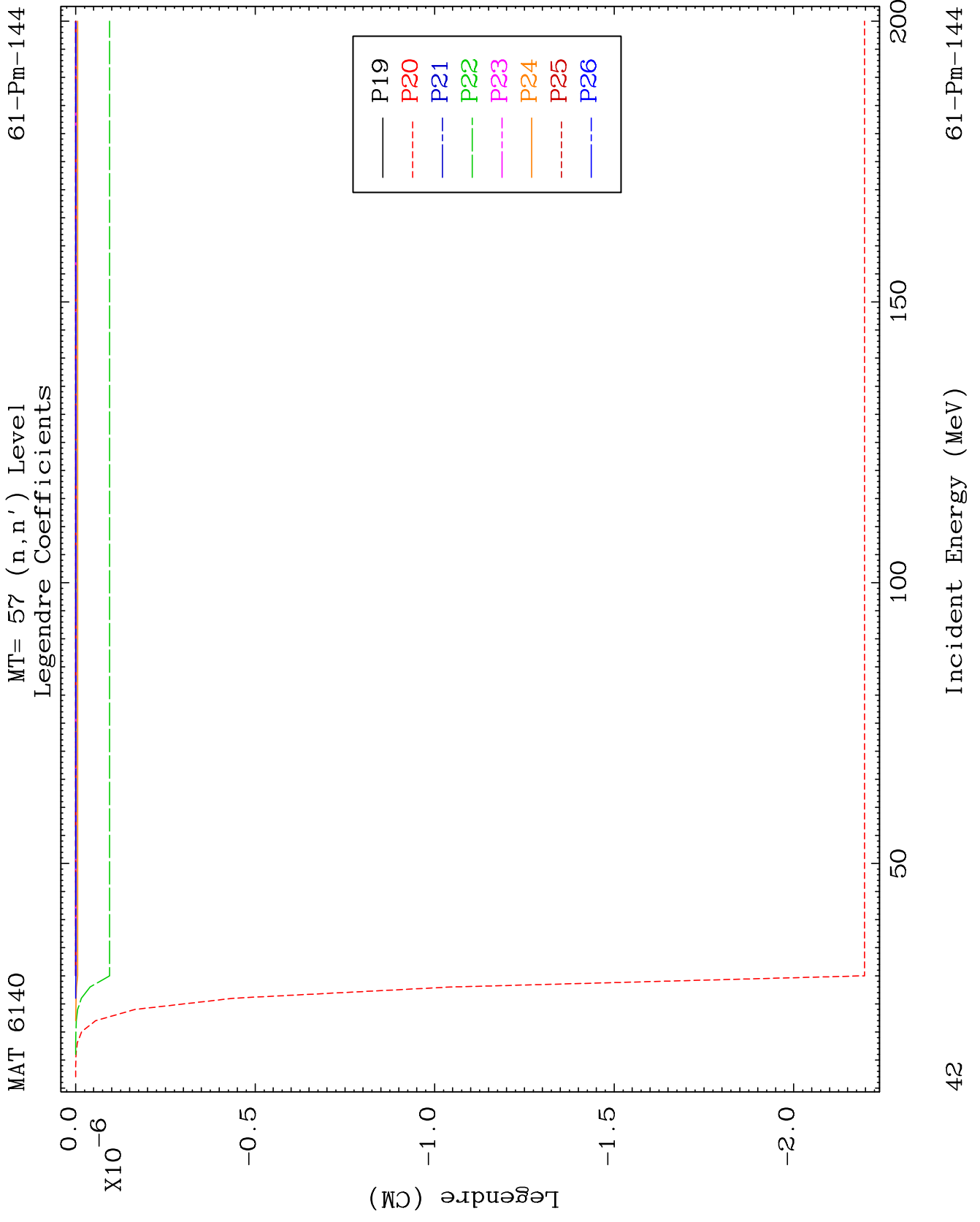
61-Pm-144



41

Incident Energy (MeV)

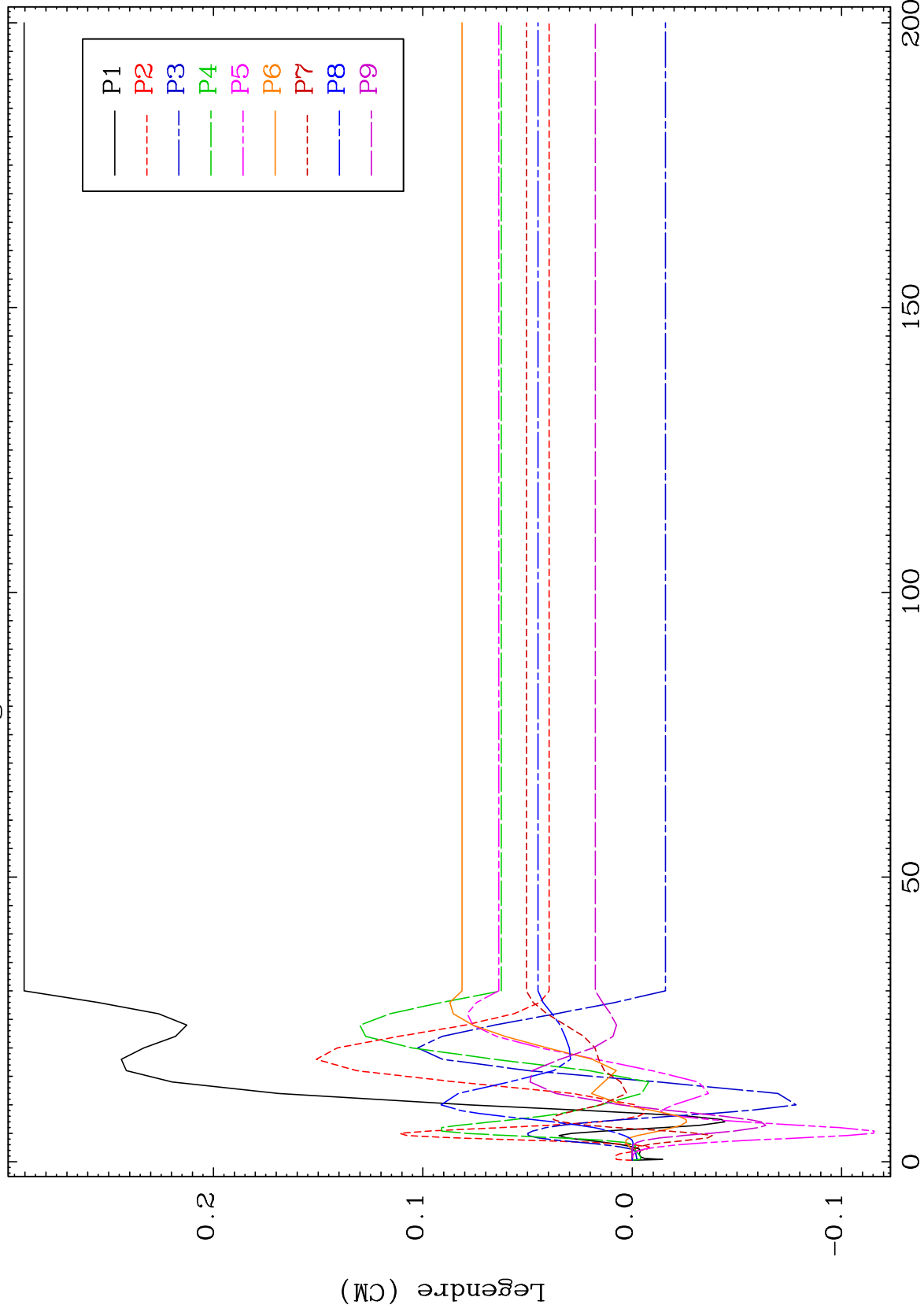
61-Pm-144



MAT 6140

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

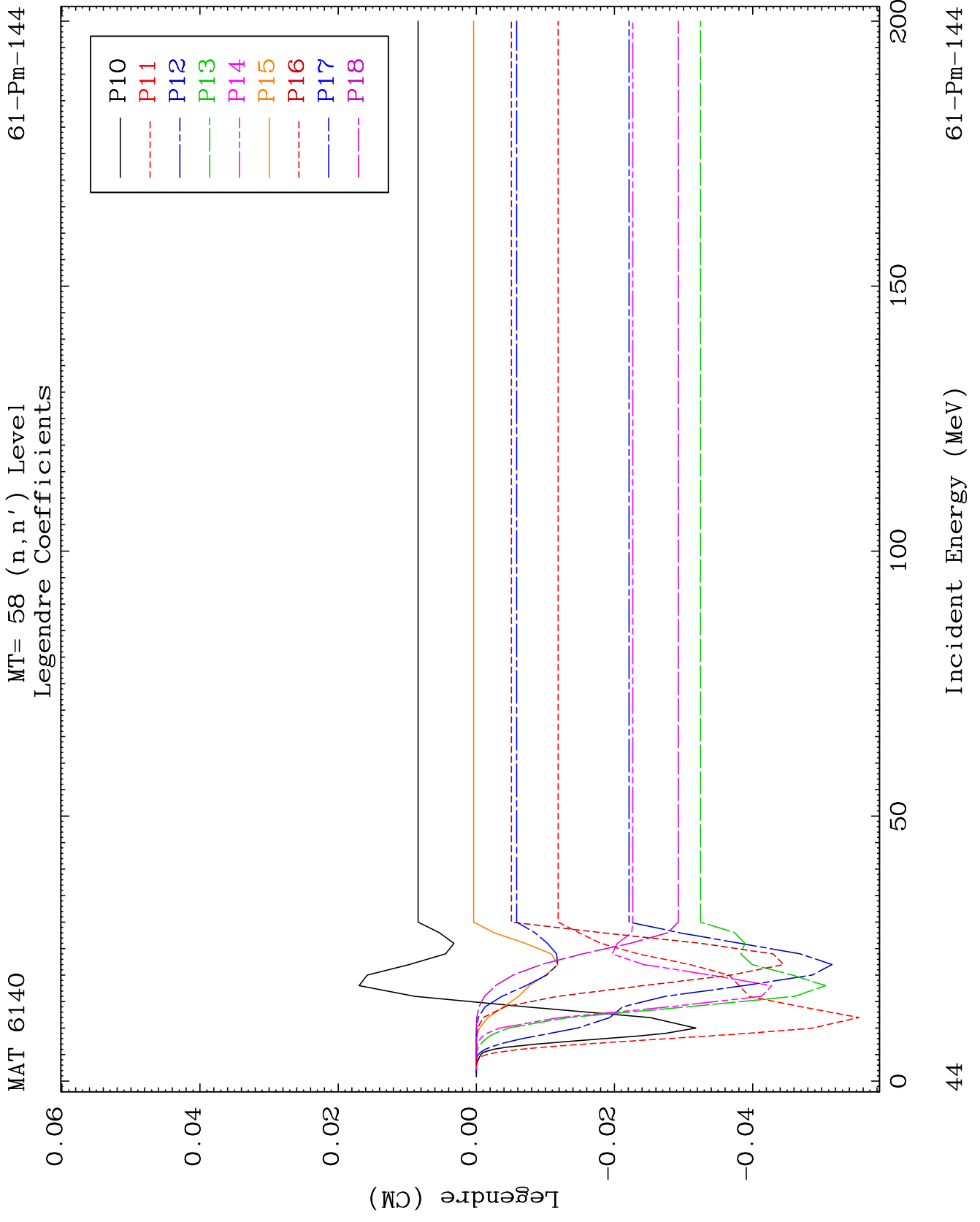
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43

Incident Energy (MeV)

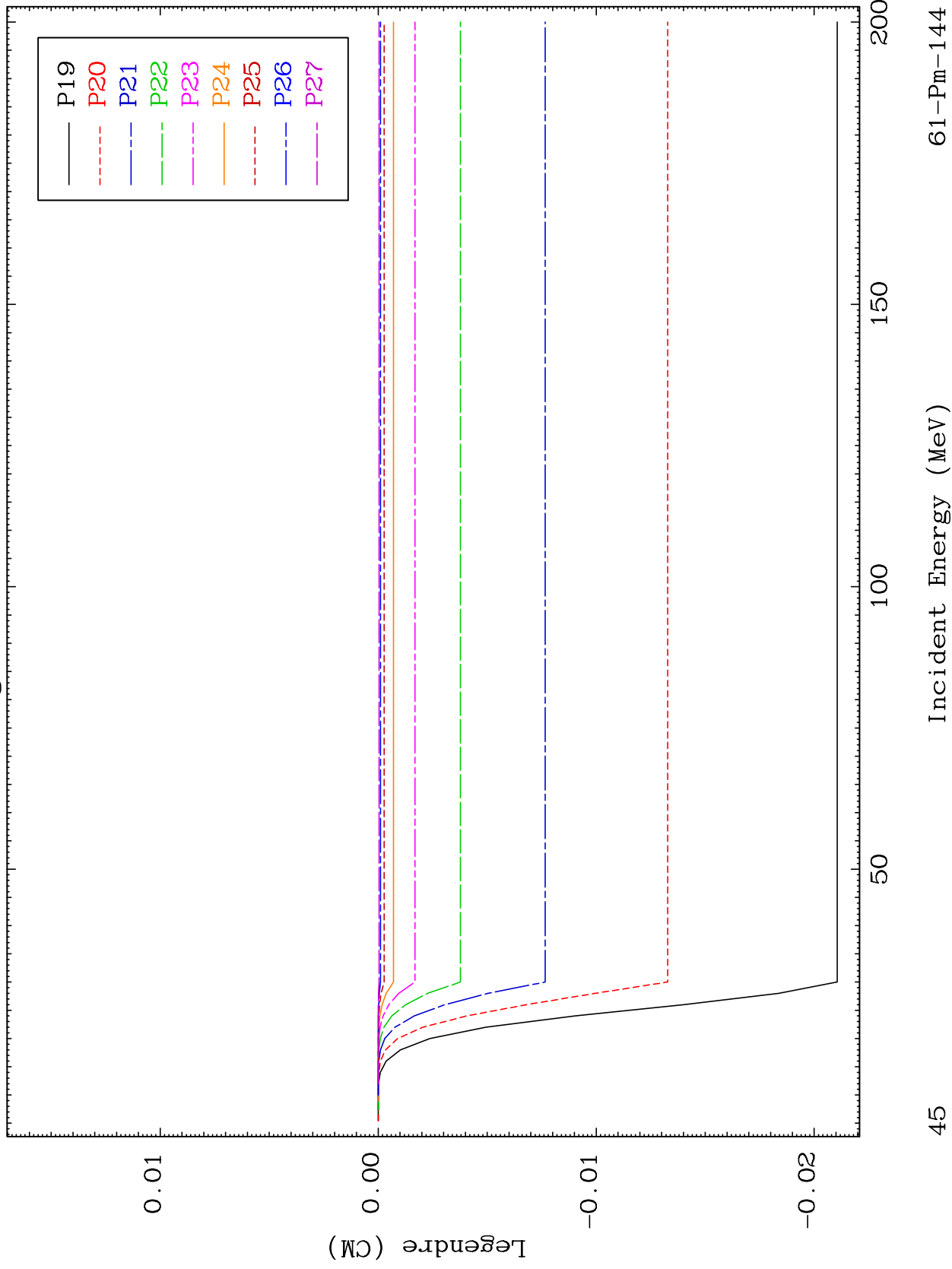
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MAT 6140

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

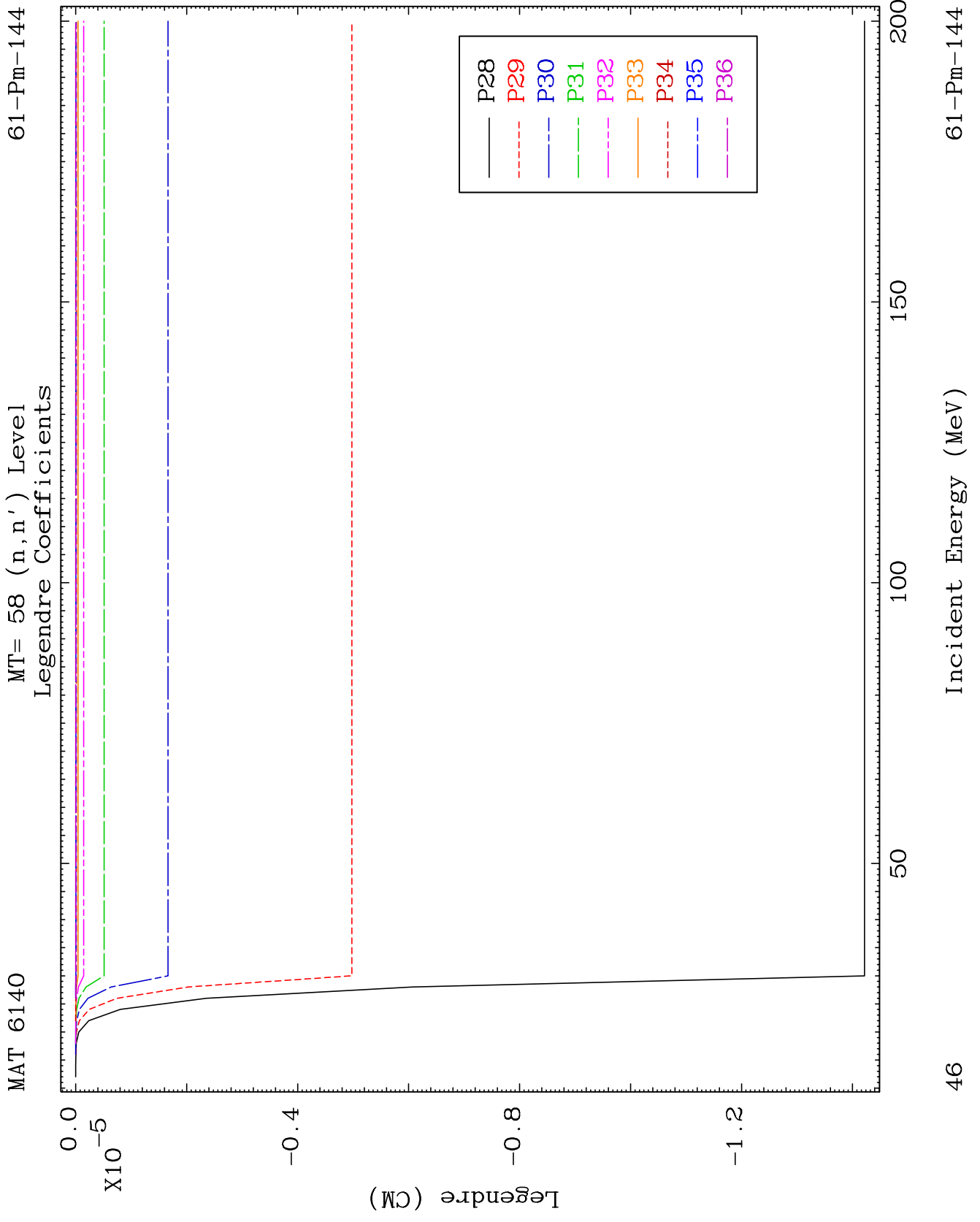
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45

Incident Energy (MeV)

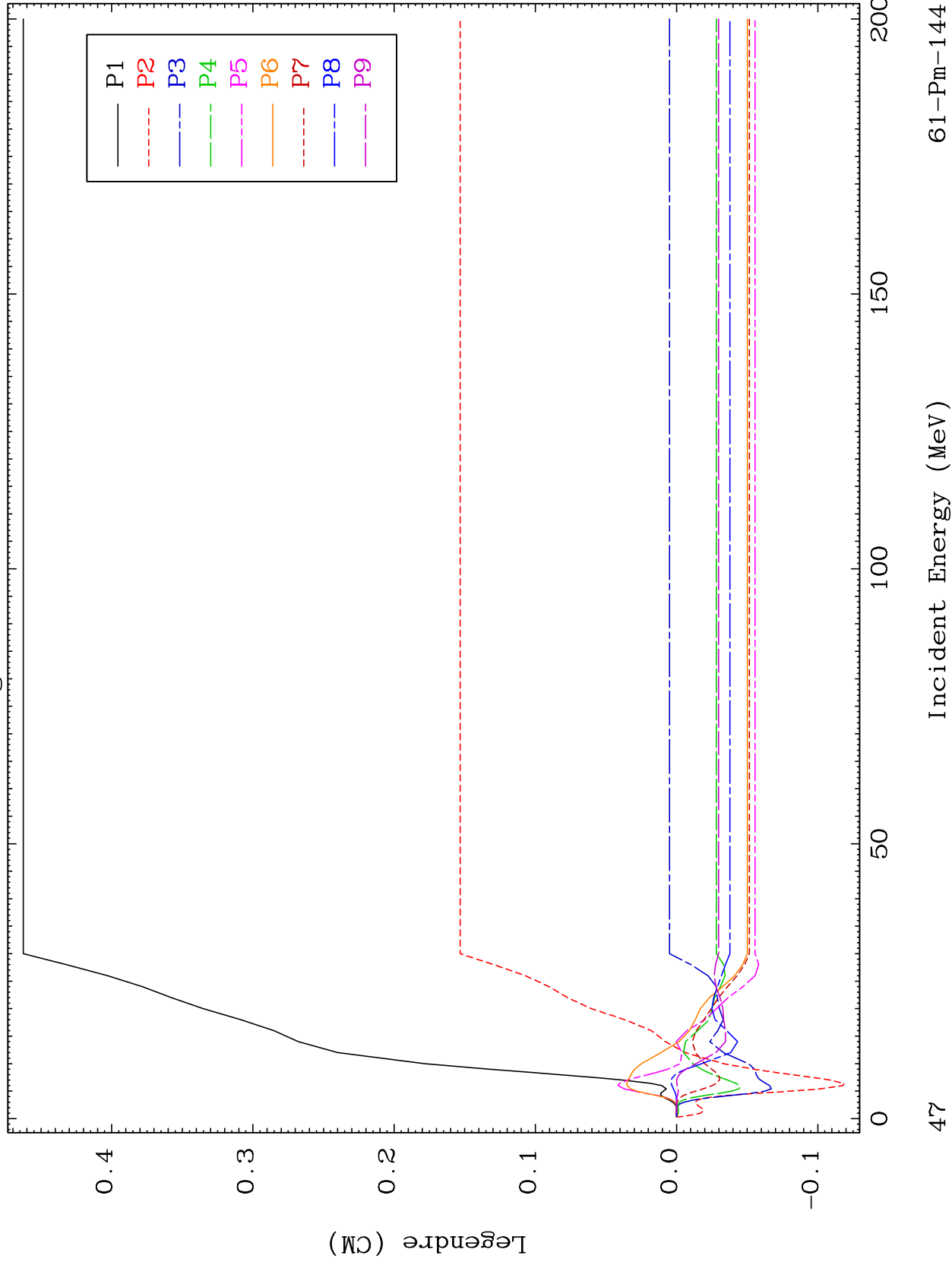
61-Pm-144



MAT 6140

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

61-Pm-144



61-Pm-144

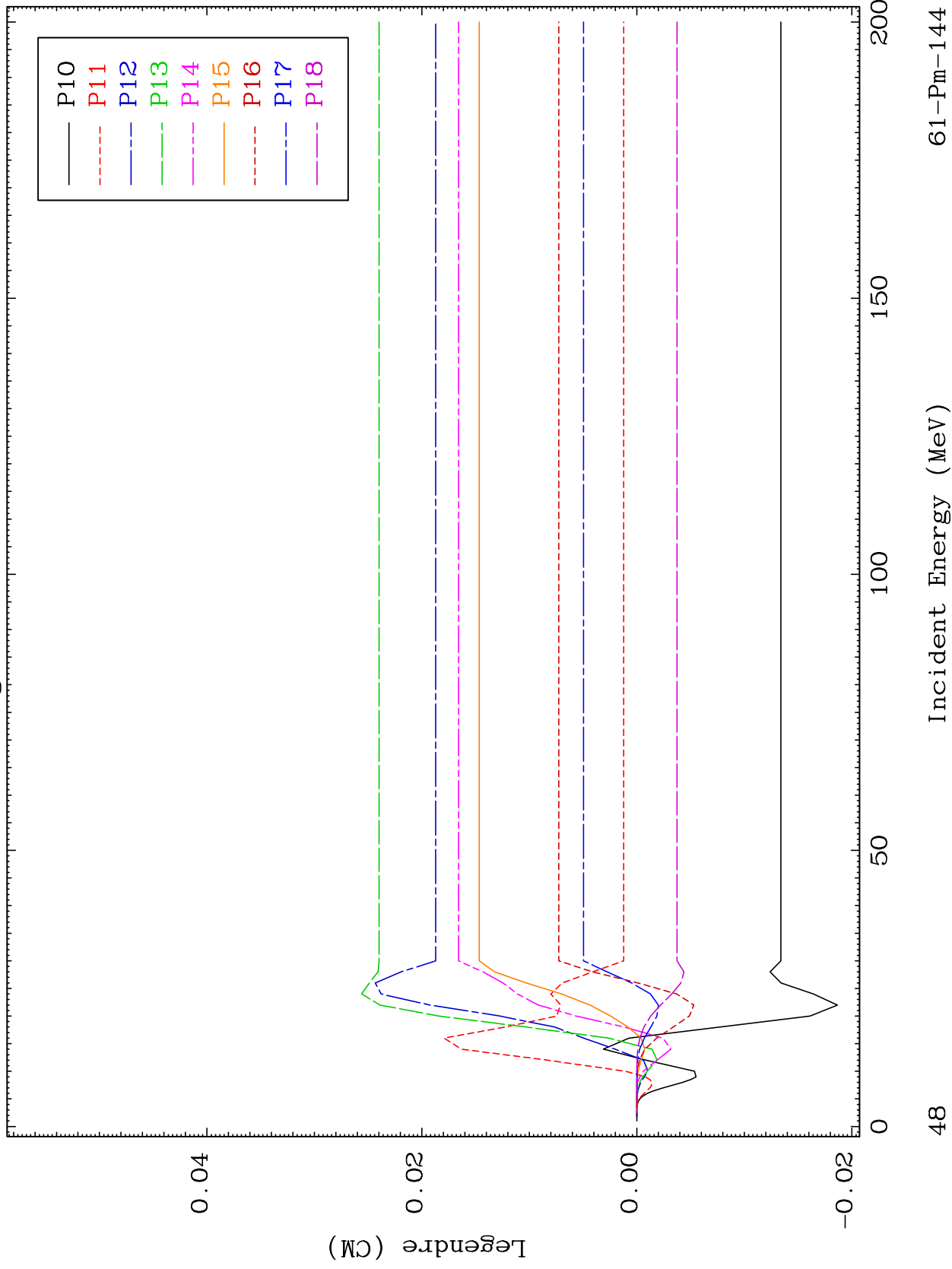
Incident Energy (MeV)

47

MAT 6140

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

61-Pm-144



61-Pm-144

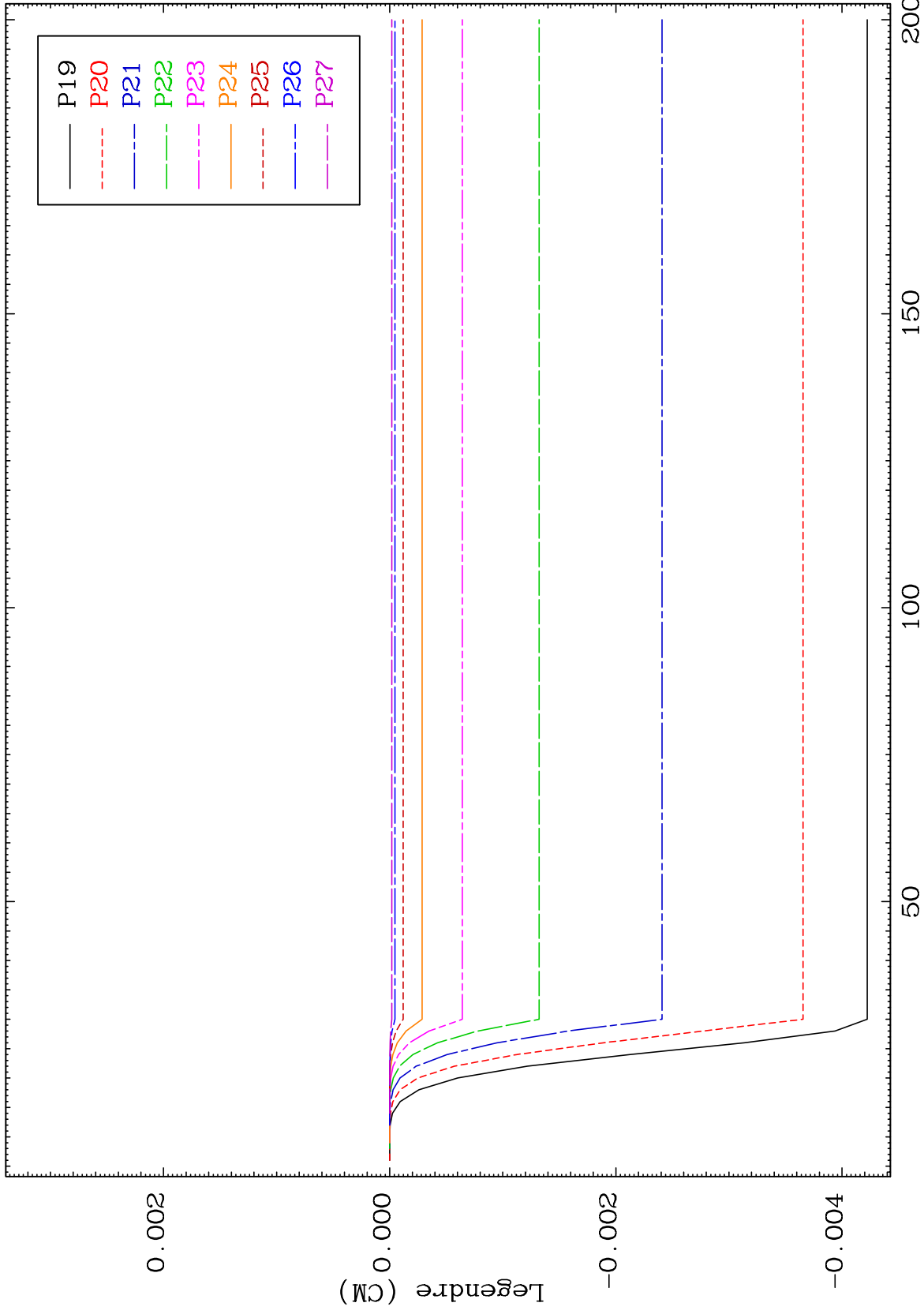
Incident Energy (MeV)

48

MAT 6140

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

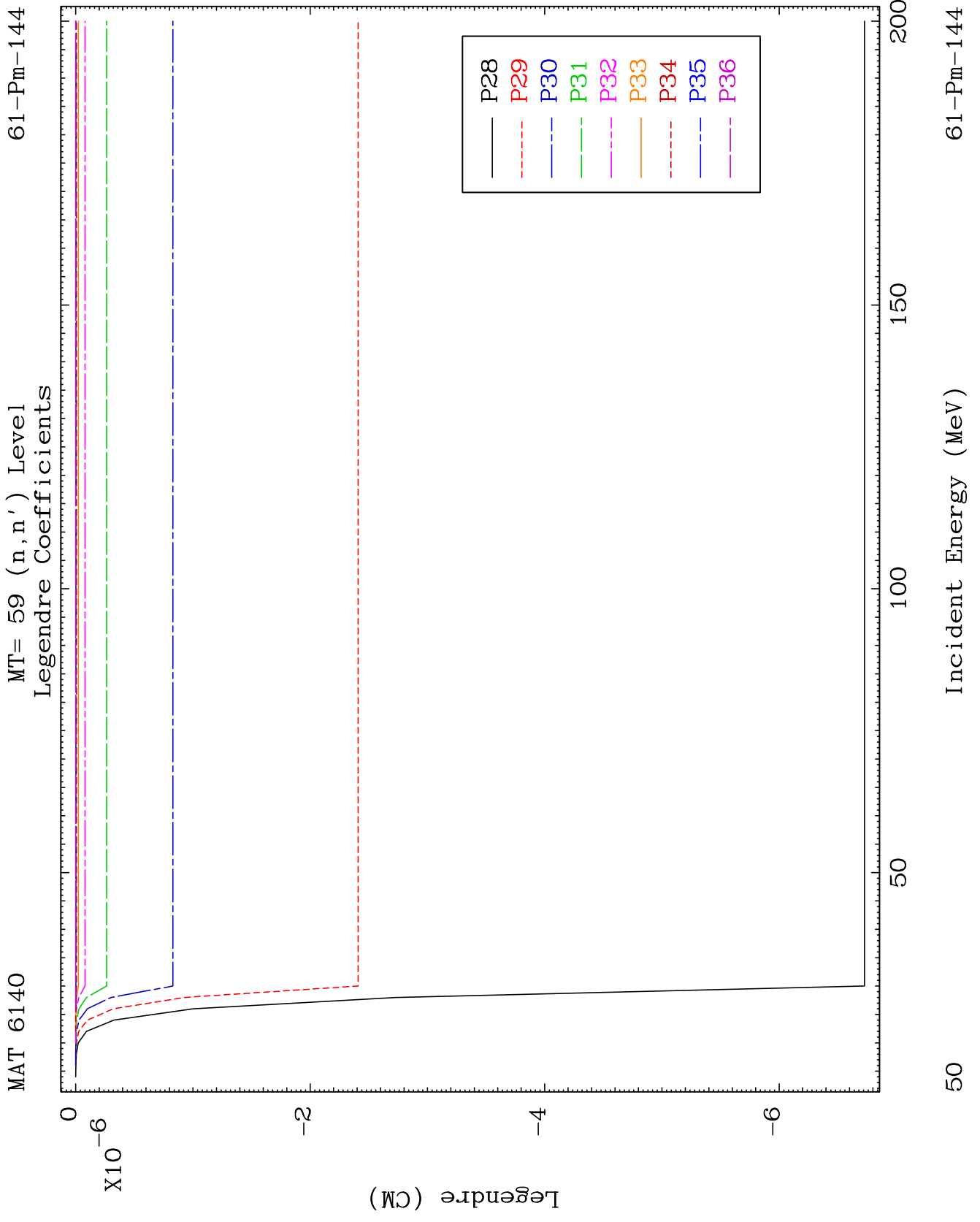
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49

Incident Energy (MeV)

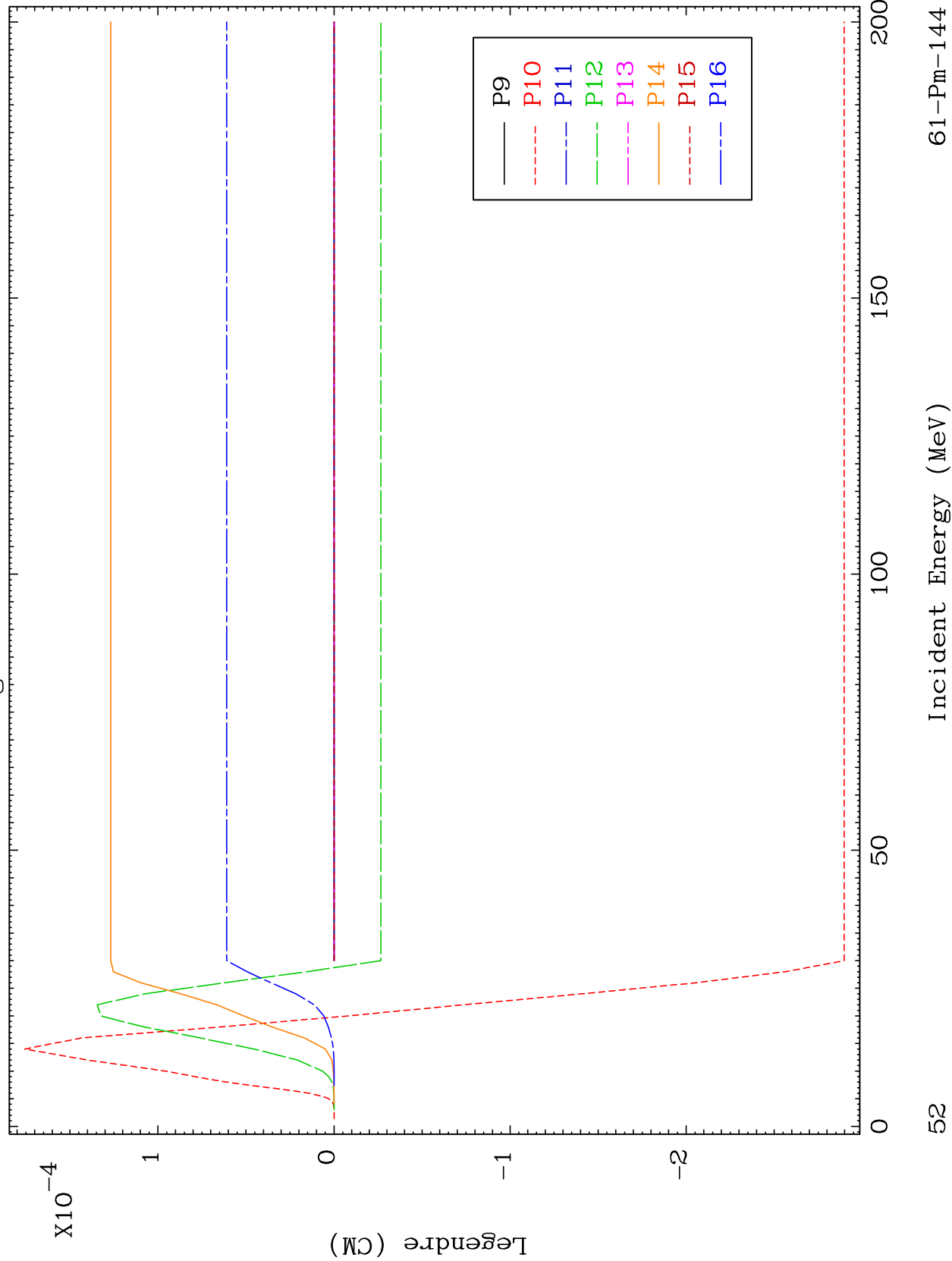
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MAT 6140

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

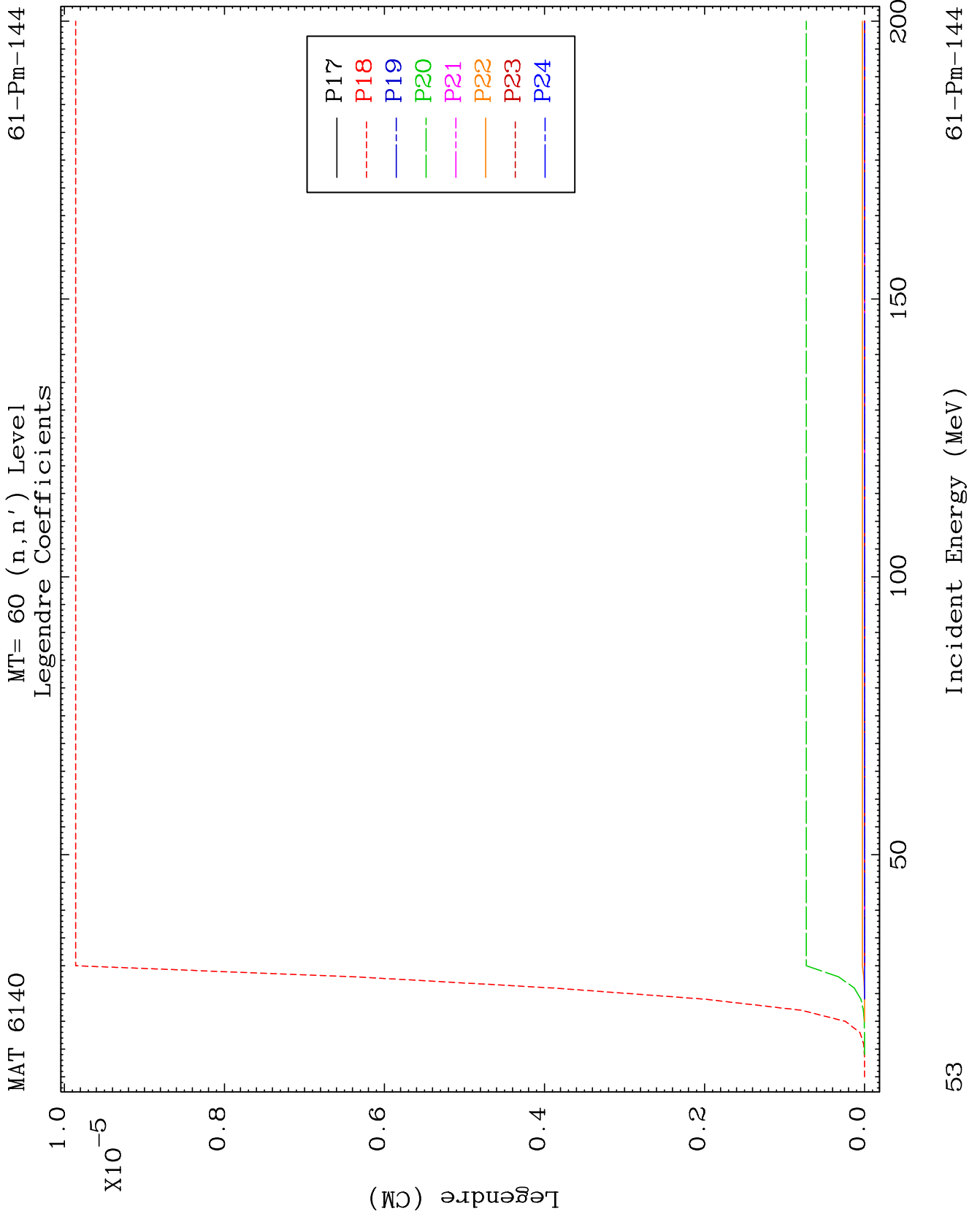
61-Pm-144



61-Pm-144

Incident Energy (MeV)

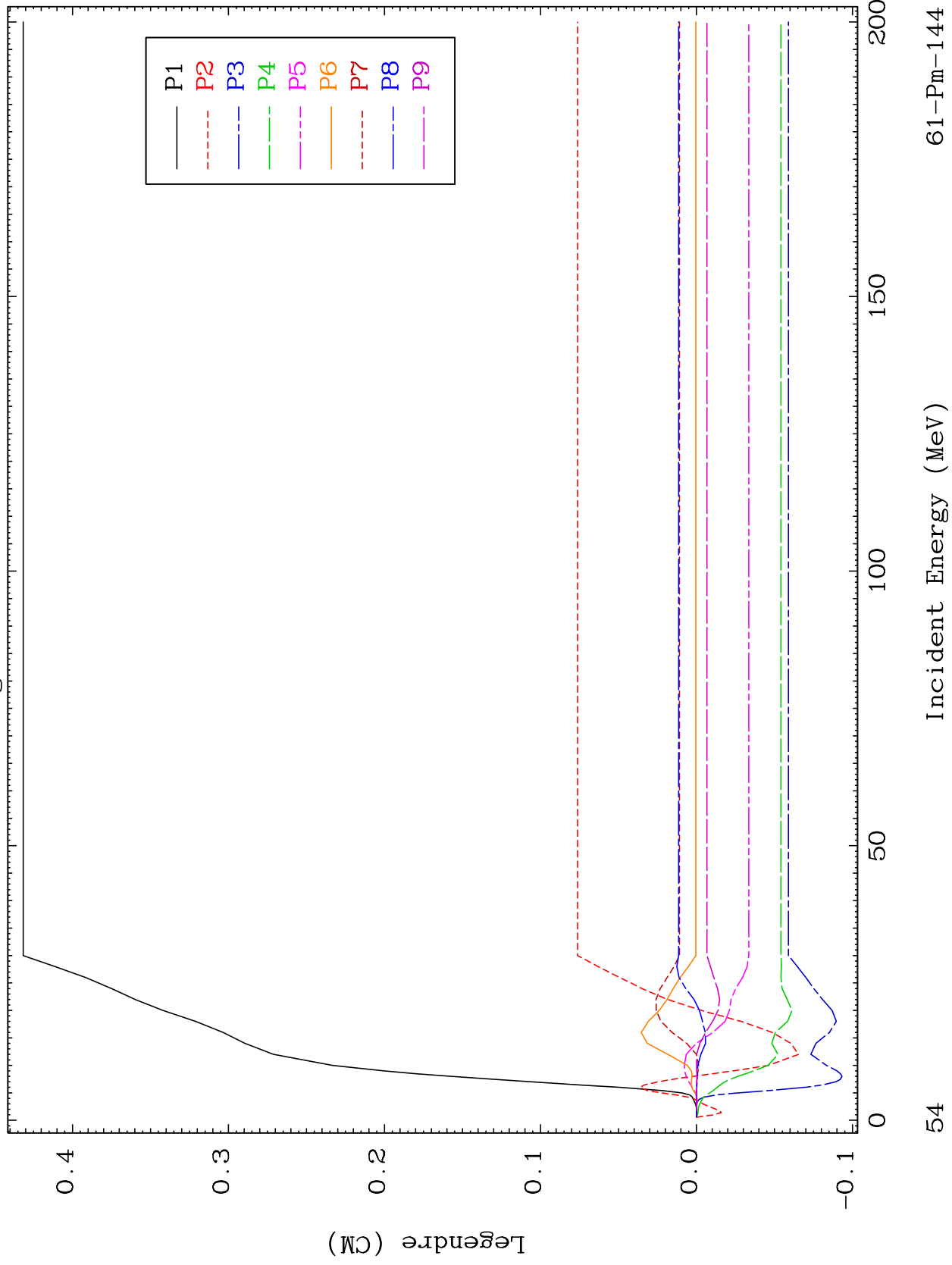
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MAT 6140

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

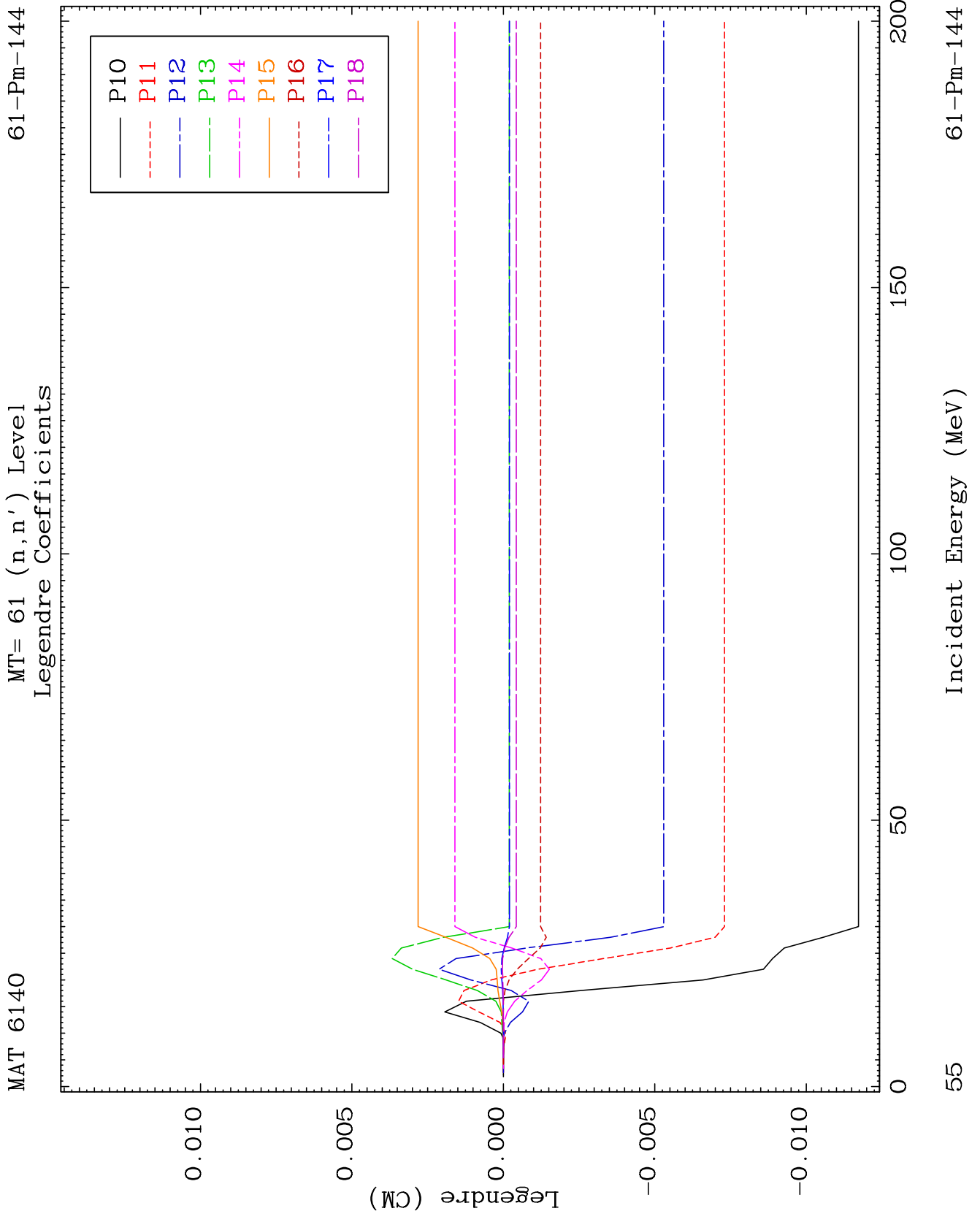
61-Pm-144



61-Pm-144

Incident Energy (MeV)

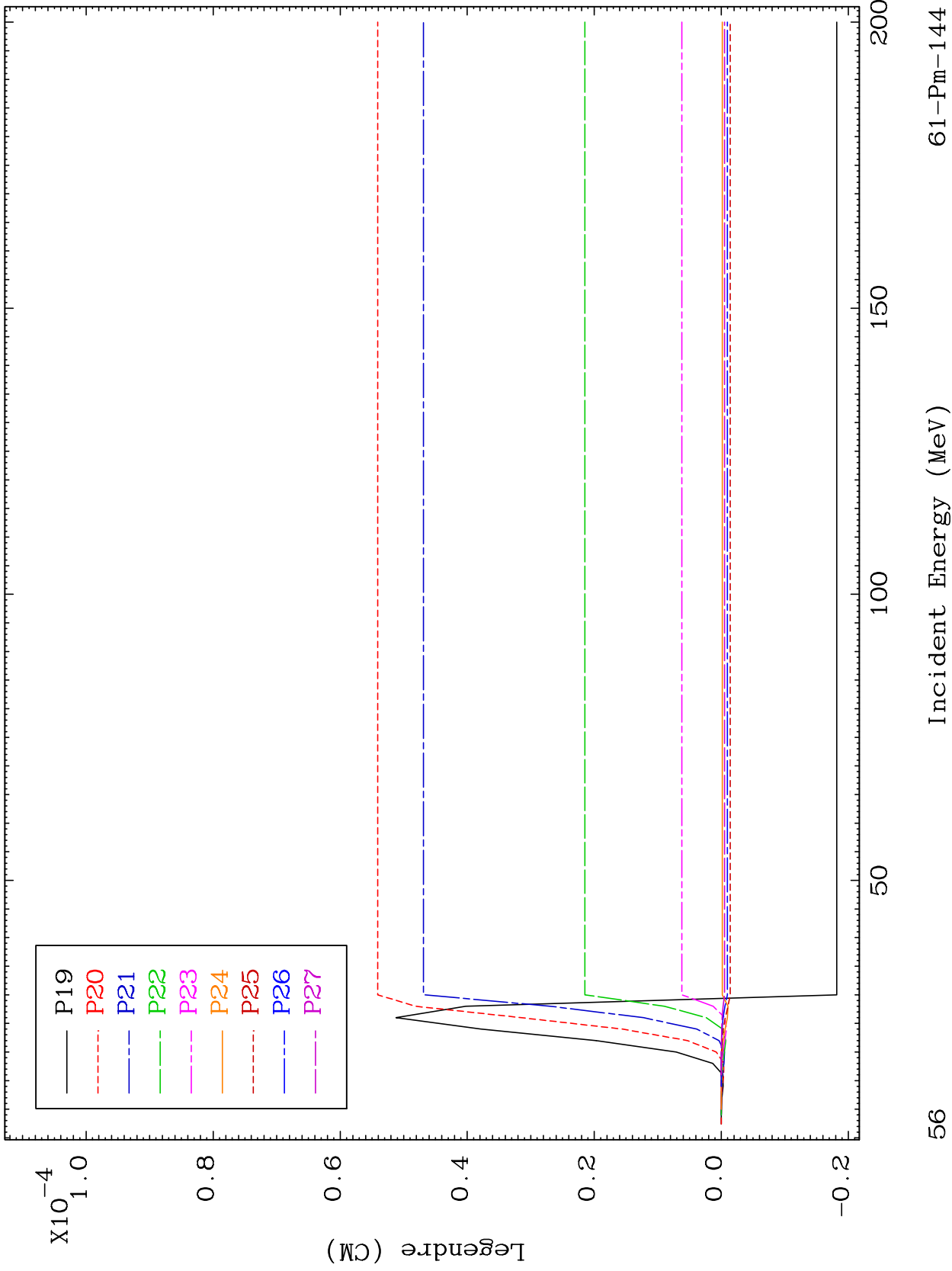
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MAT 6140

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

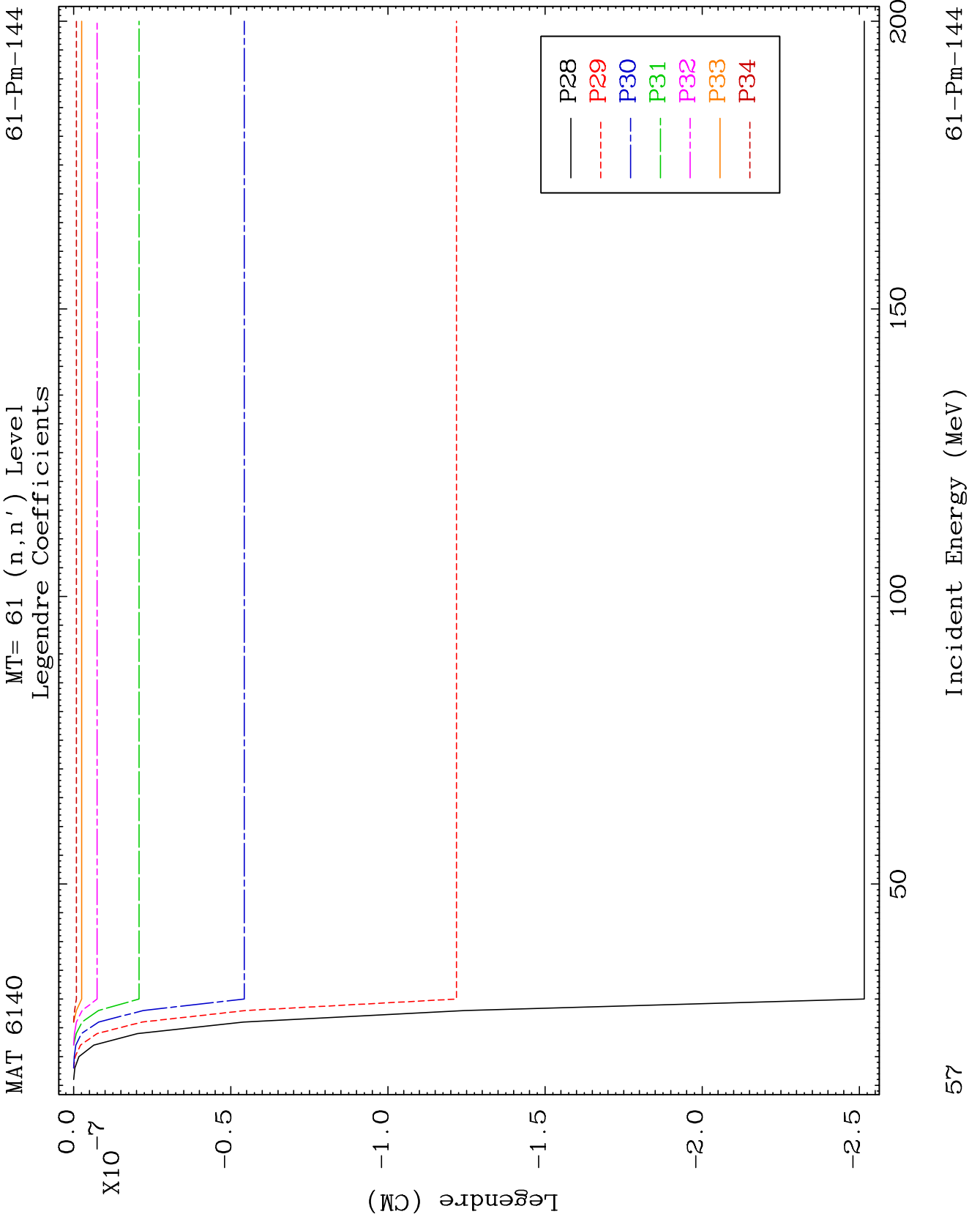
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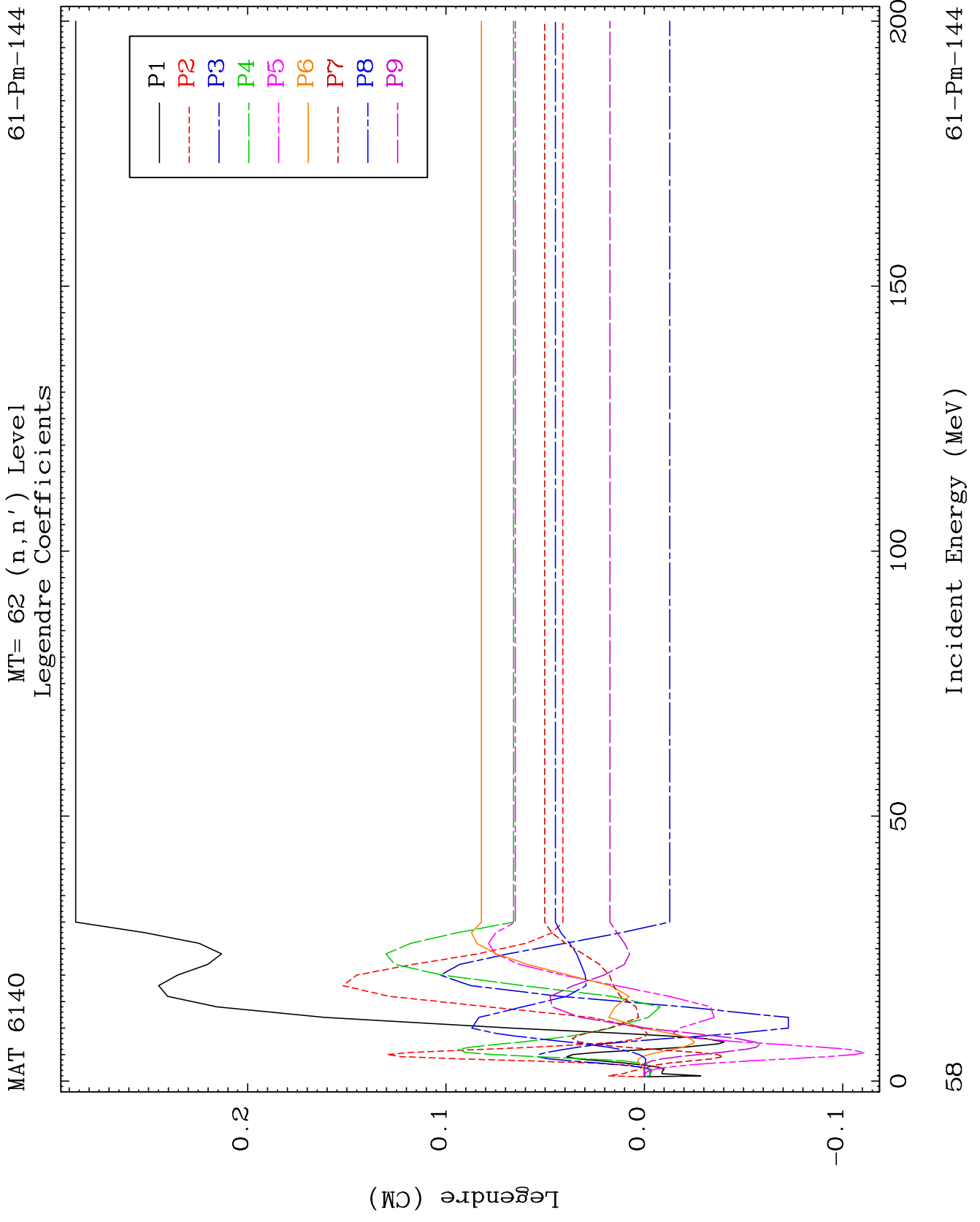


56

Incident Energy (MeV)

61-Pm-144

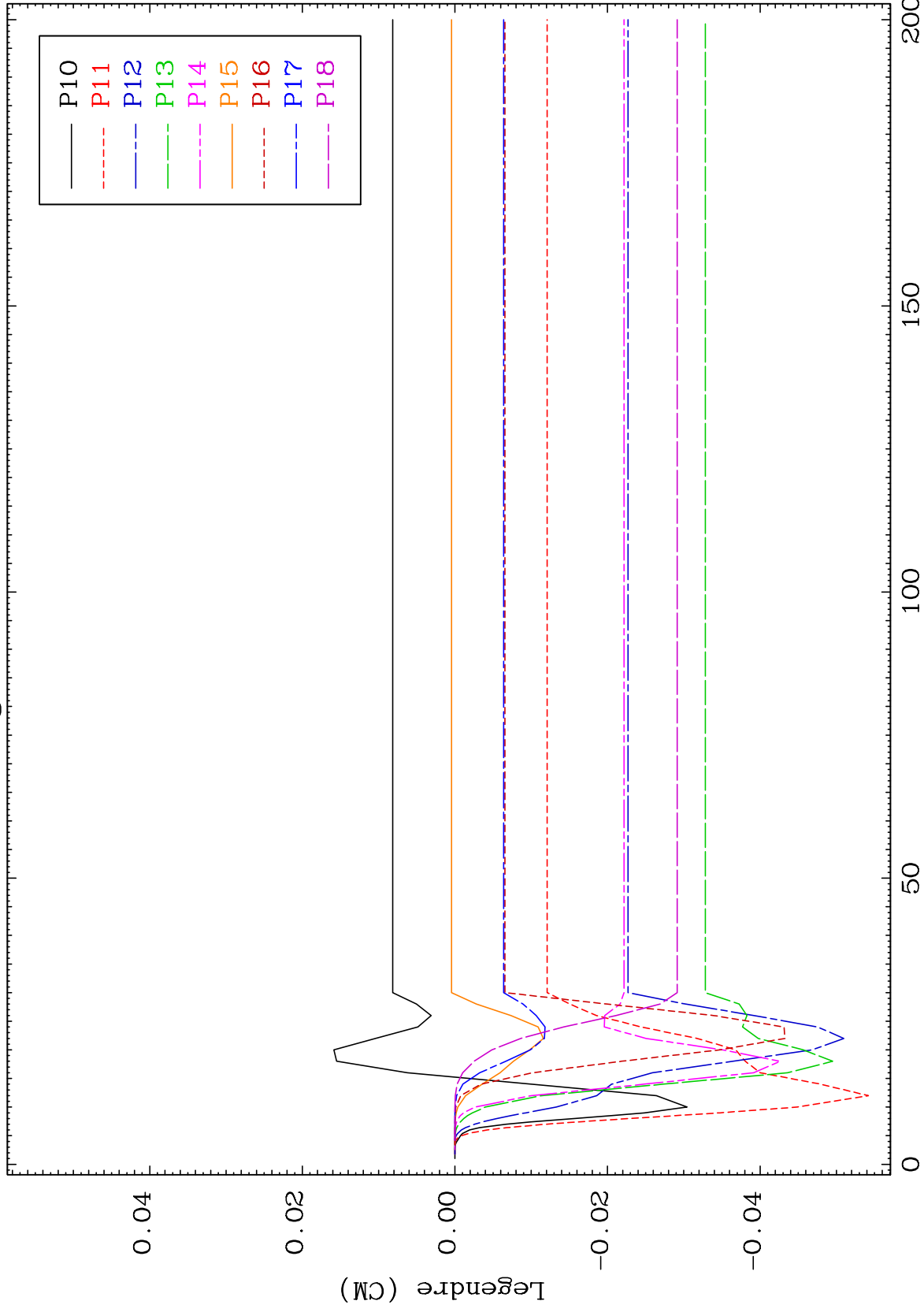




MAT 6140

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

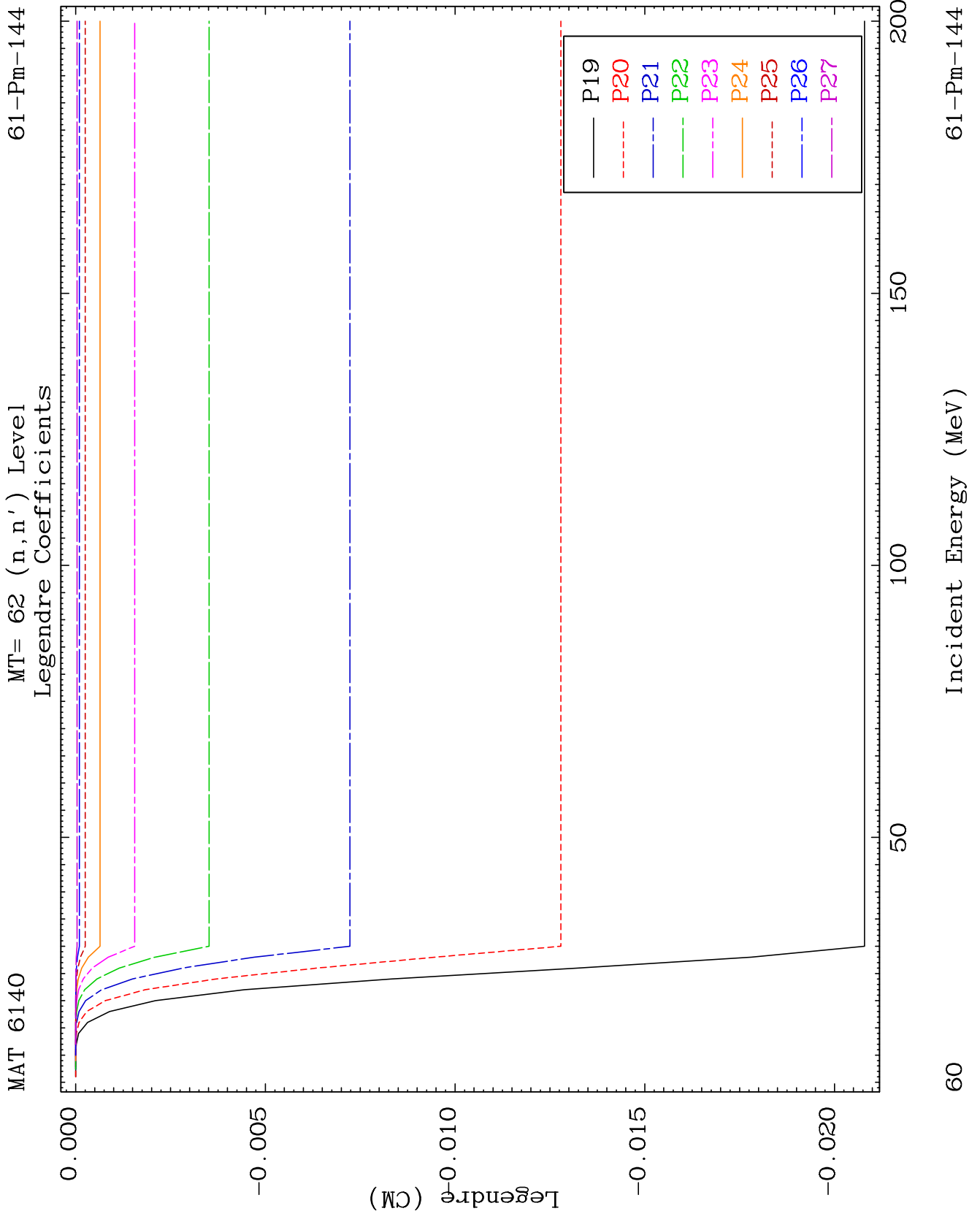
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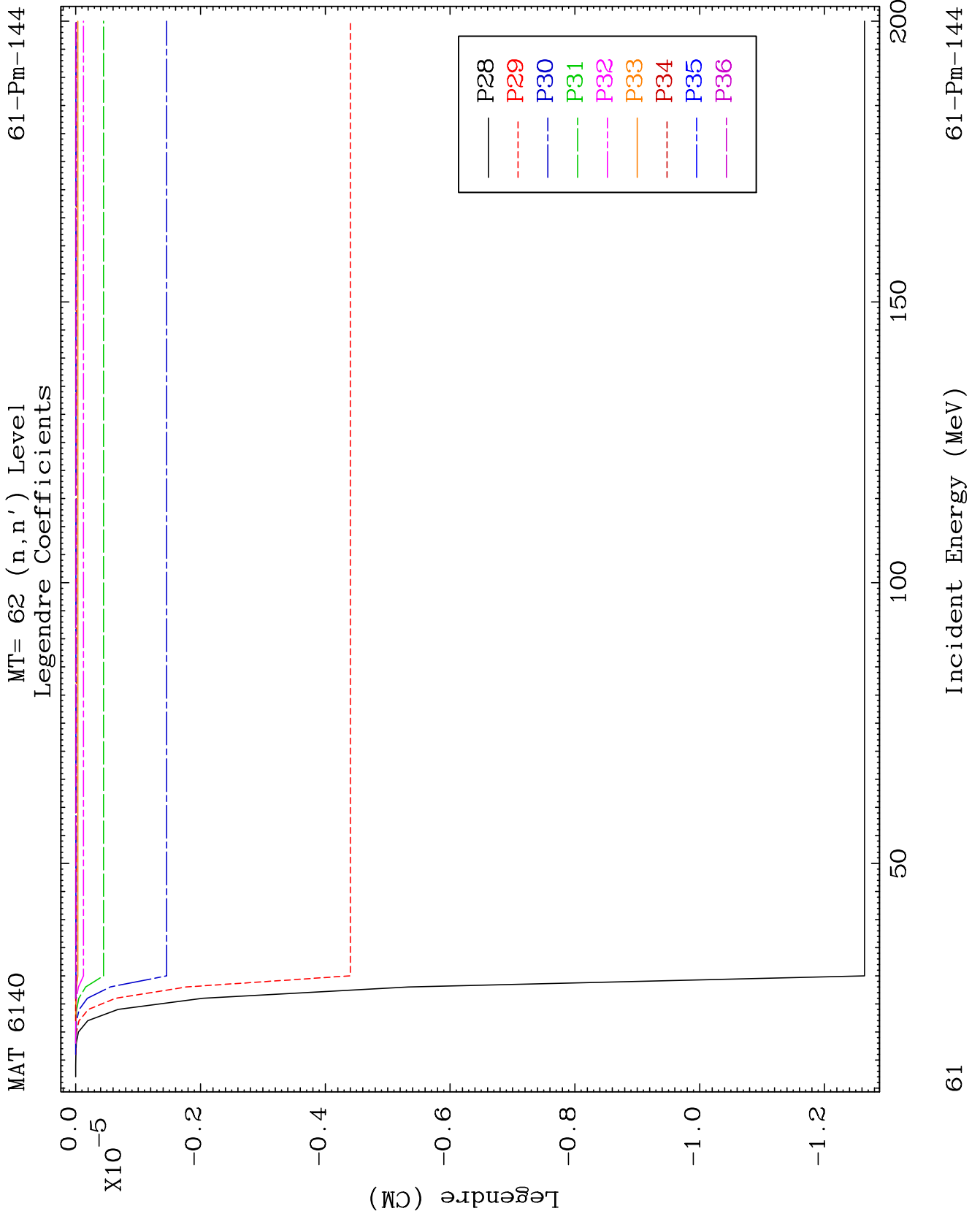


59

Incident Energy (MeV)

61-Pm-144

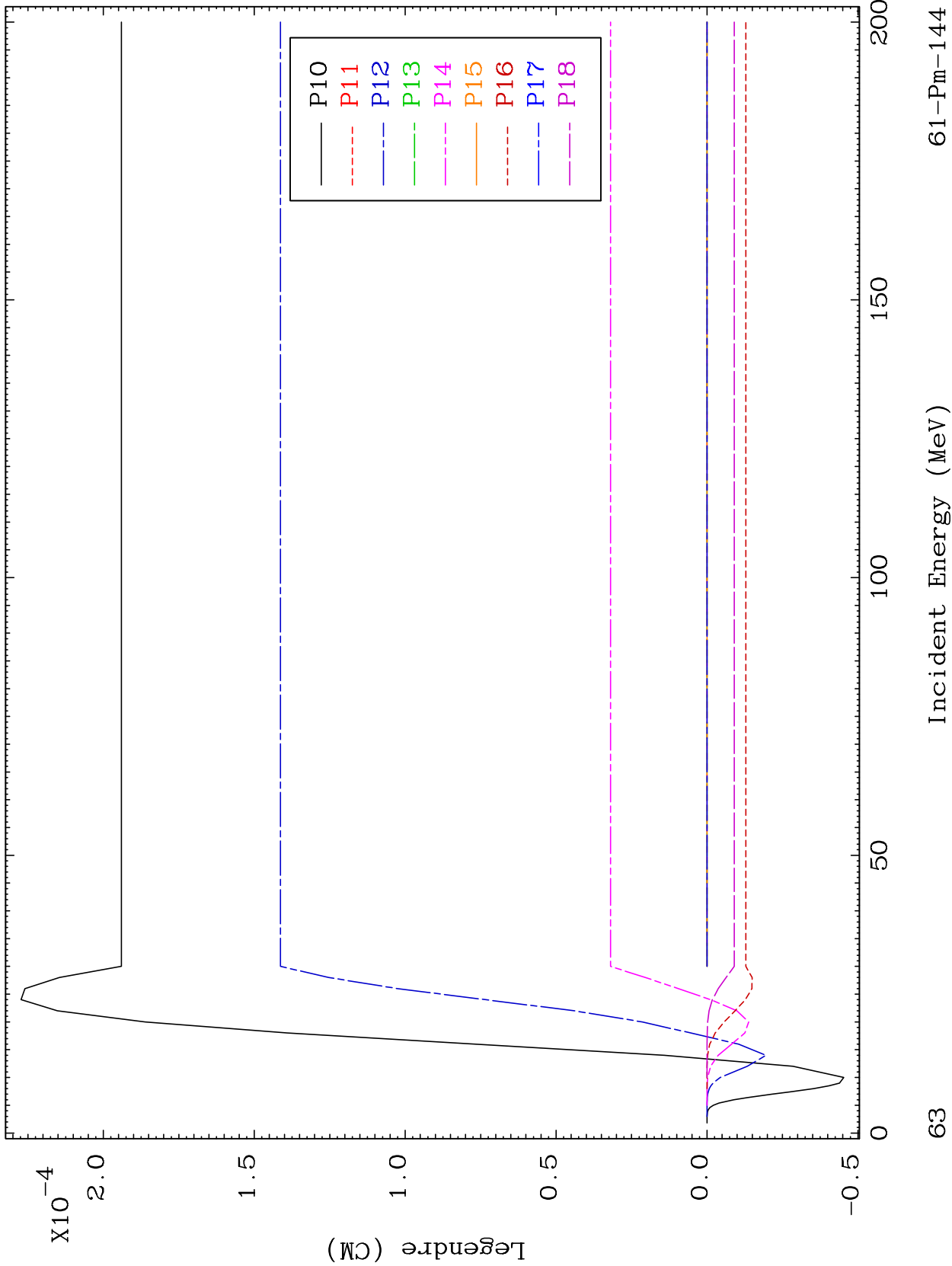




MAT 6140

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

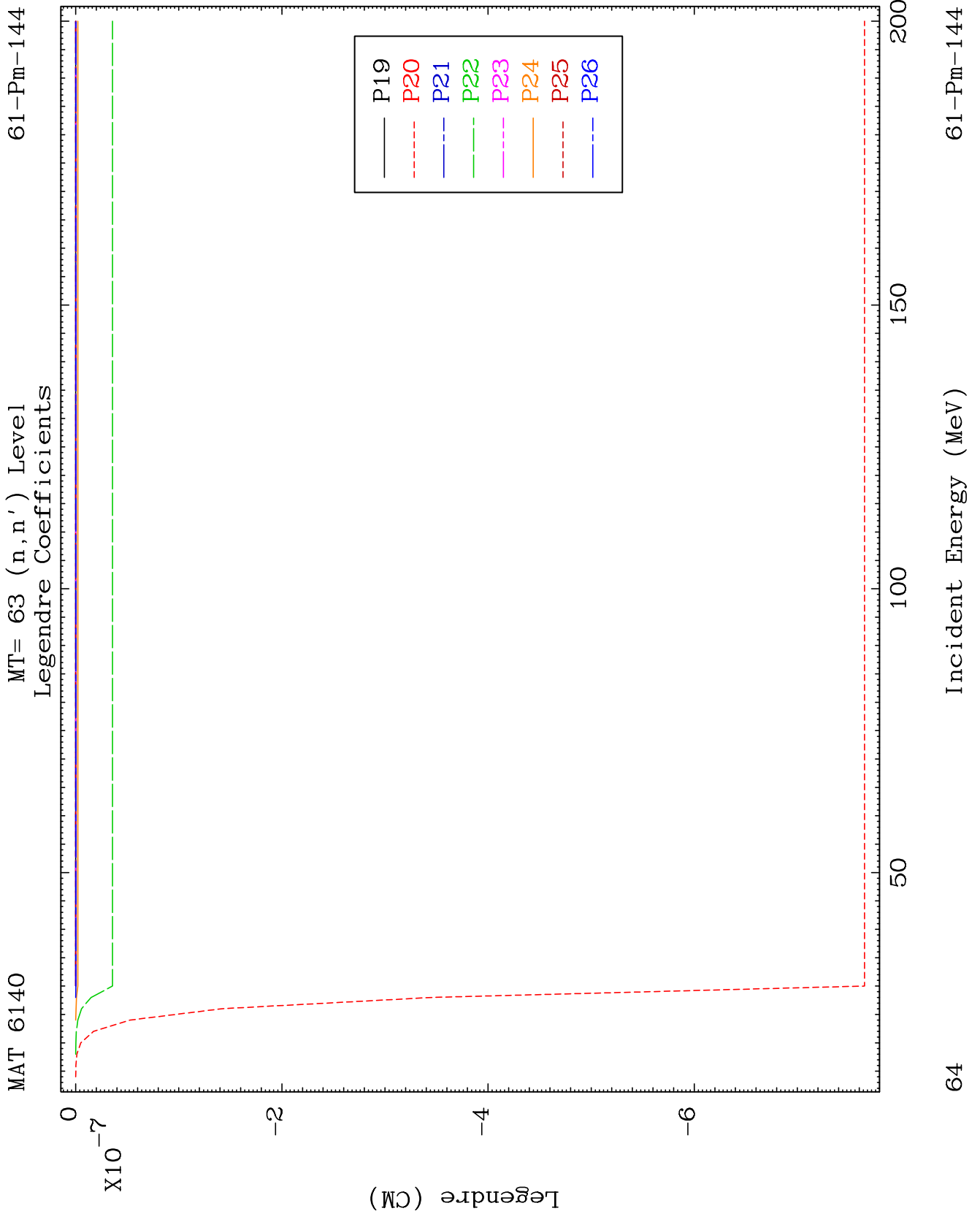
61-Pm-144



63

Incident Energy (MeV)

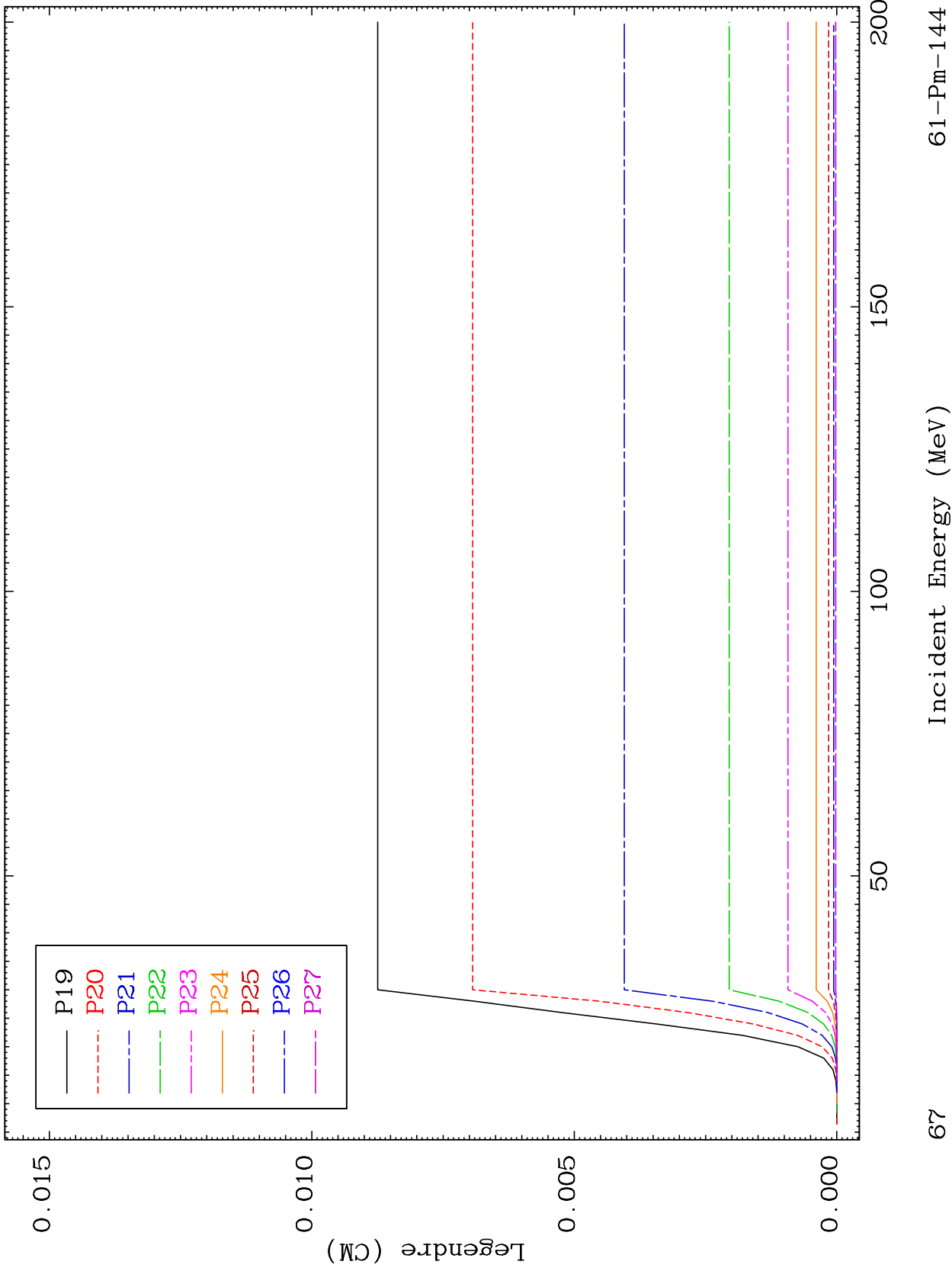
61-Pm-144



MAT 6140

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

61-Pm-144



67

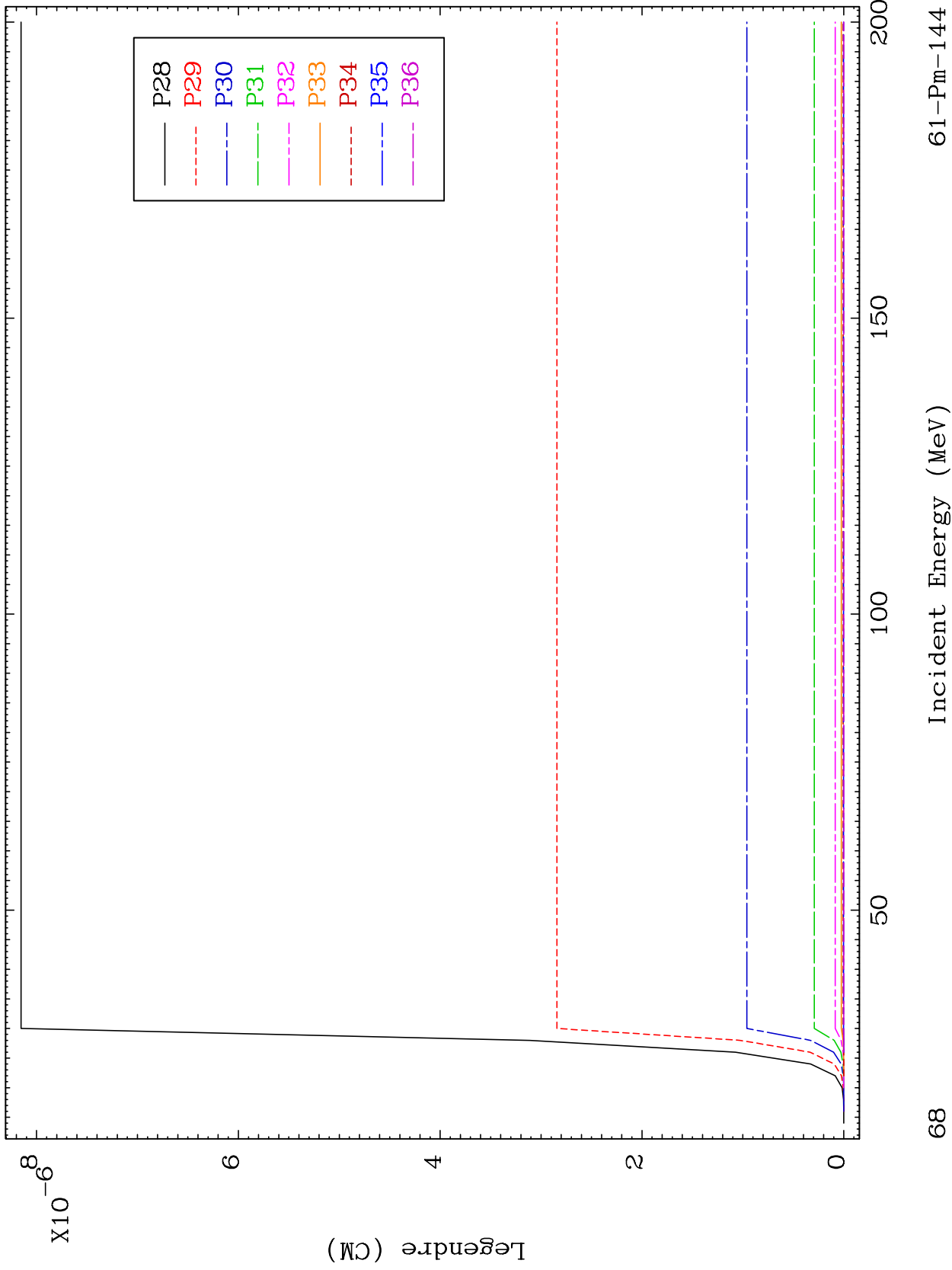
Incident Energy (MeV)

61-Pm-144

MAT 6140

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

61-Pm-144



68

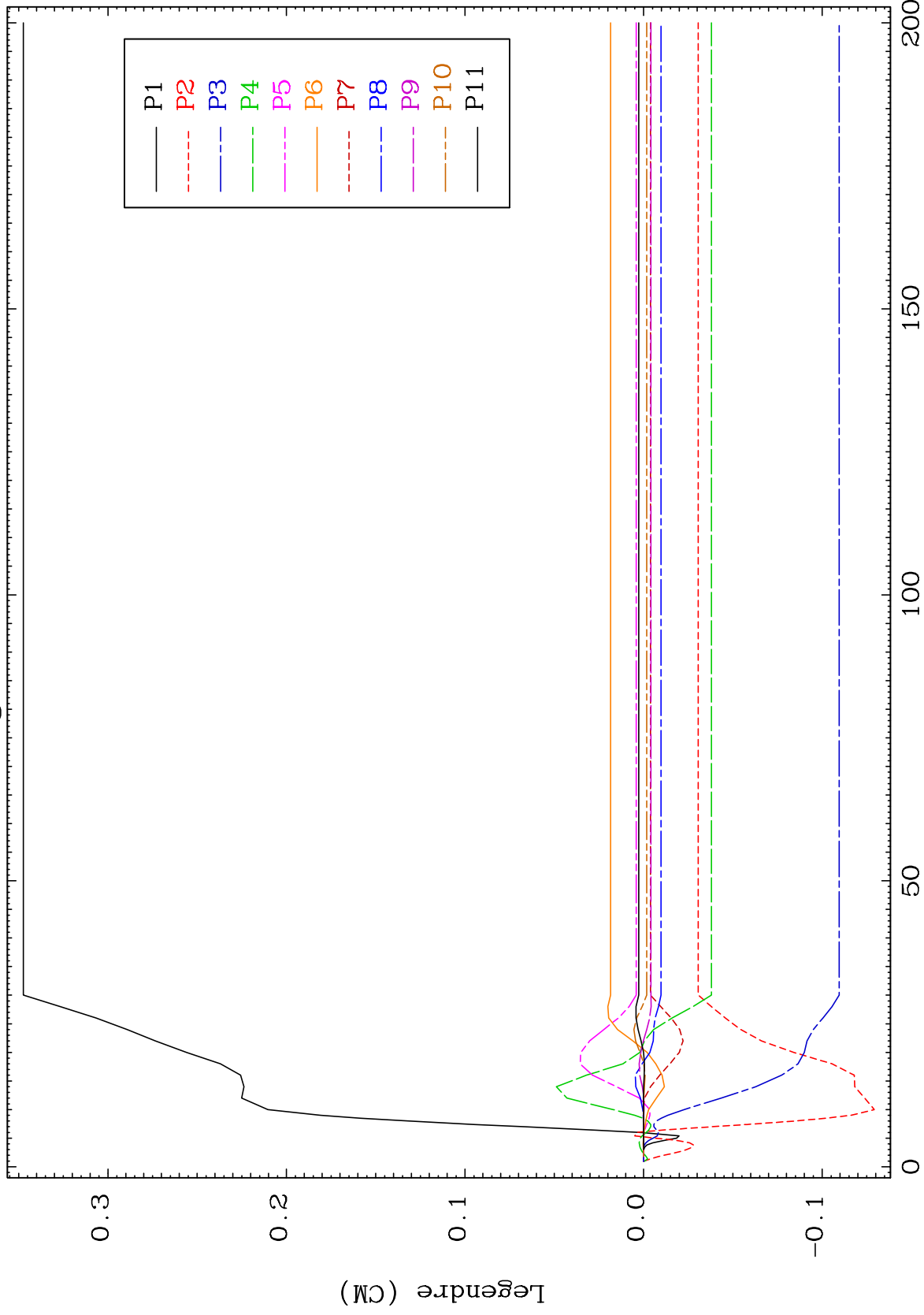
Incident Energy (MeV)

61-Pm-144

MAT 6140

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

61-Pm-144



69

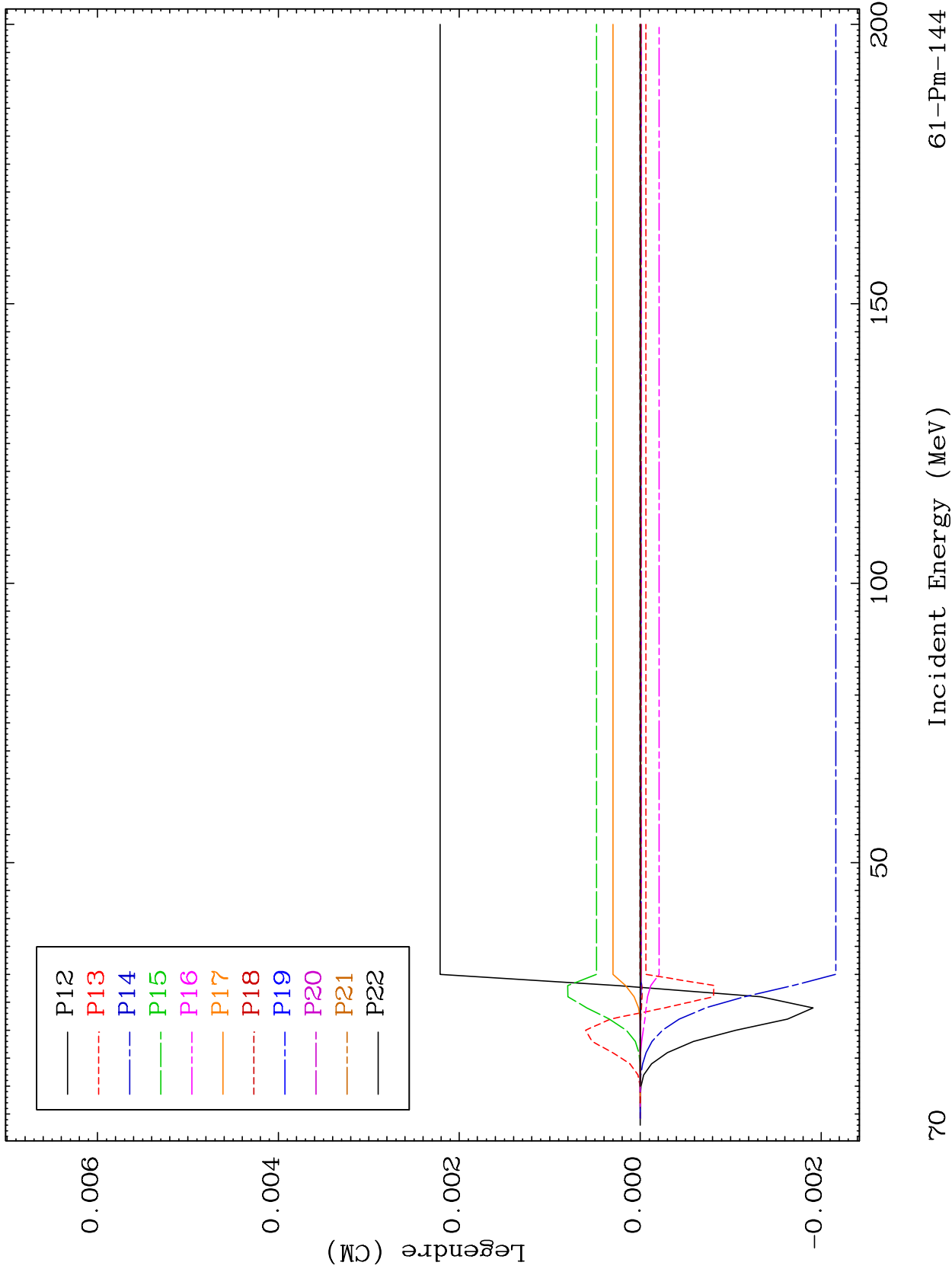
Incident Energy (MeV)

61-Pm-144

MAT 6140

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

61-Pm-144



70

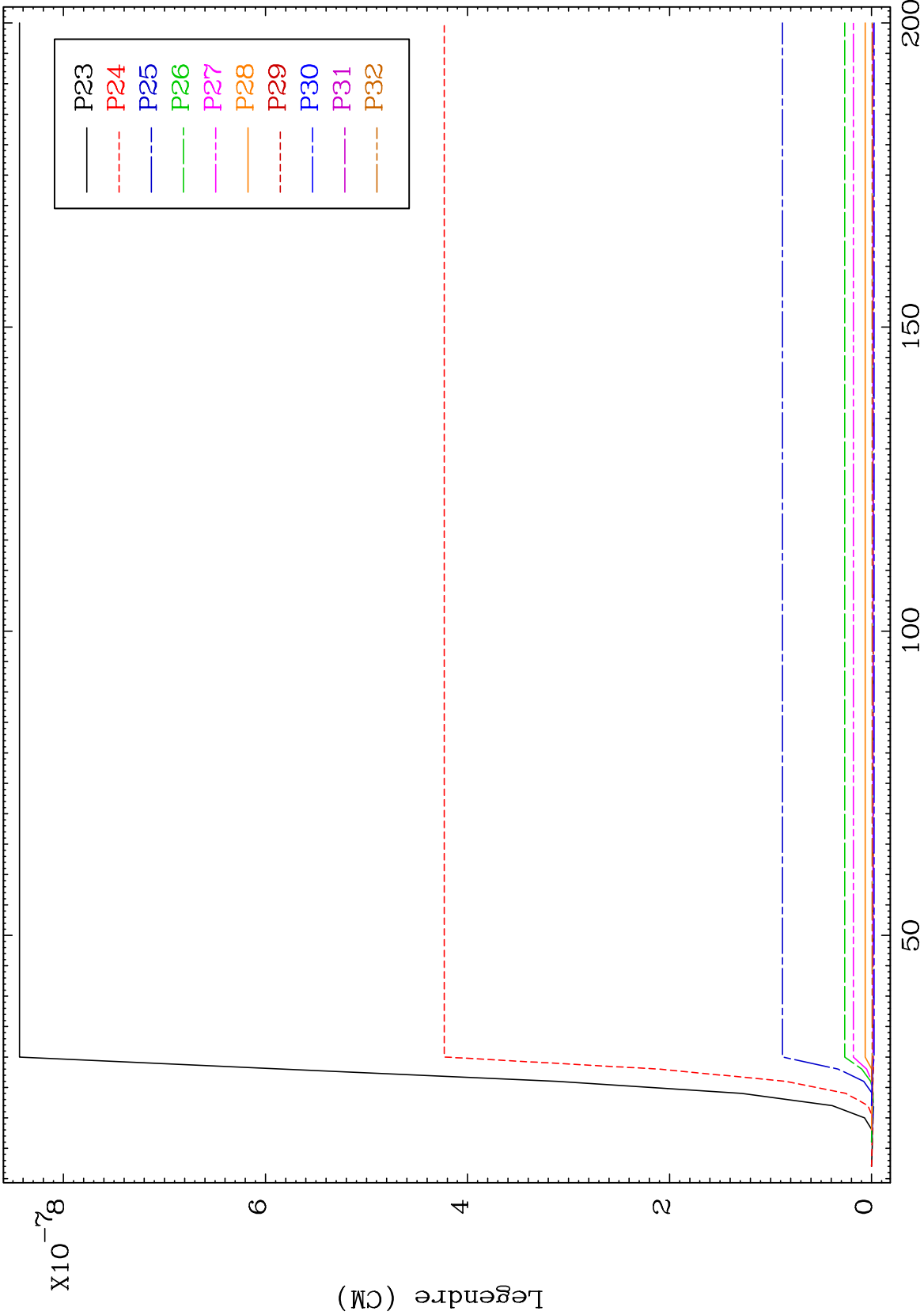
Incident Energy (MeV)

61-Pm-144

MAT 6140

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

61-Pm-144



71

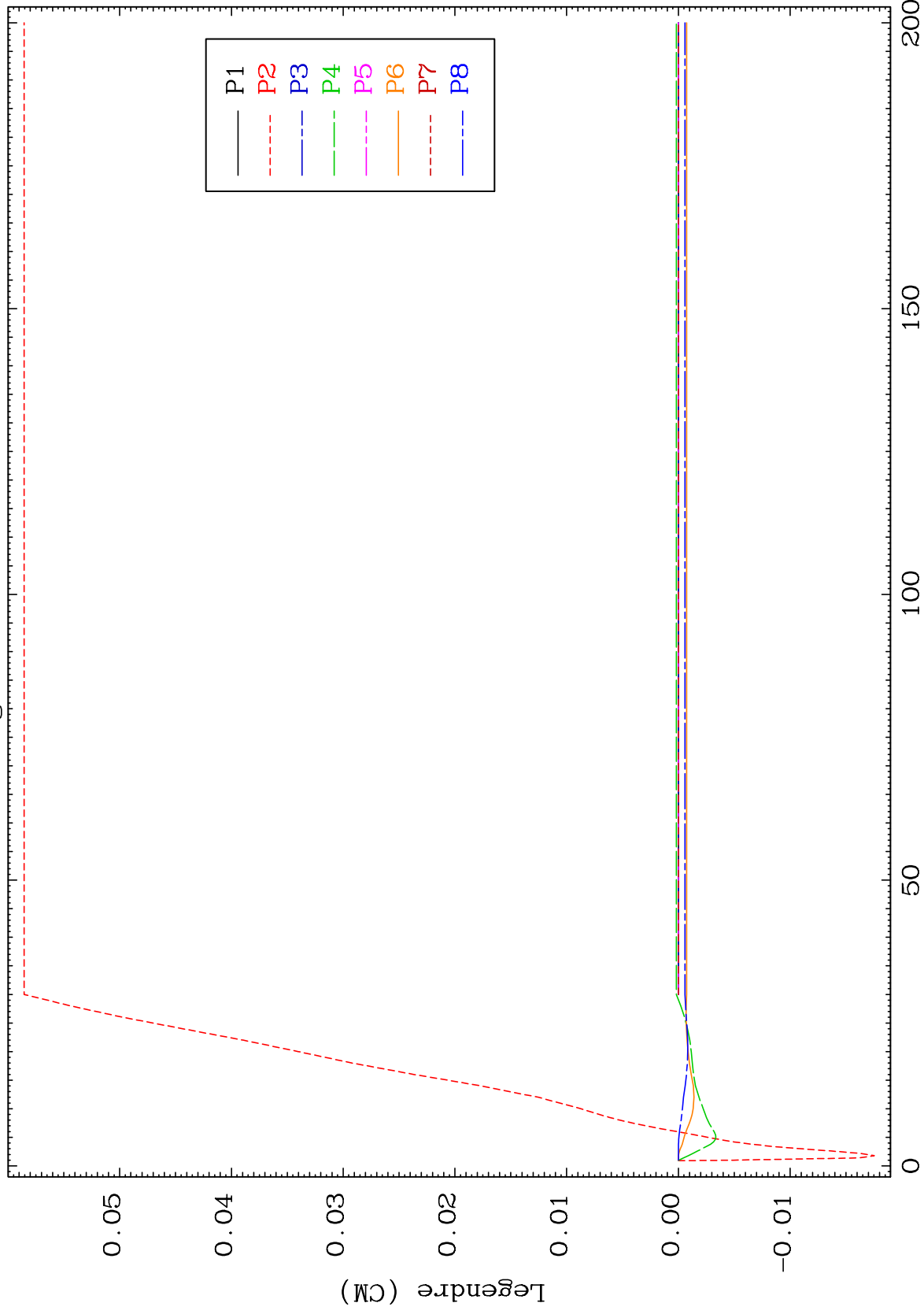
Incident Energy (MeV)

61-Pm-144

MAT 6140

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

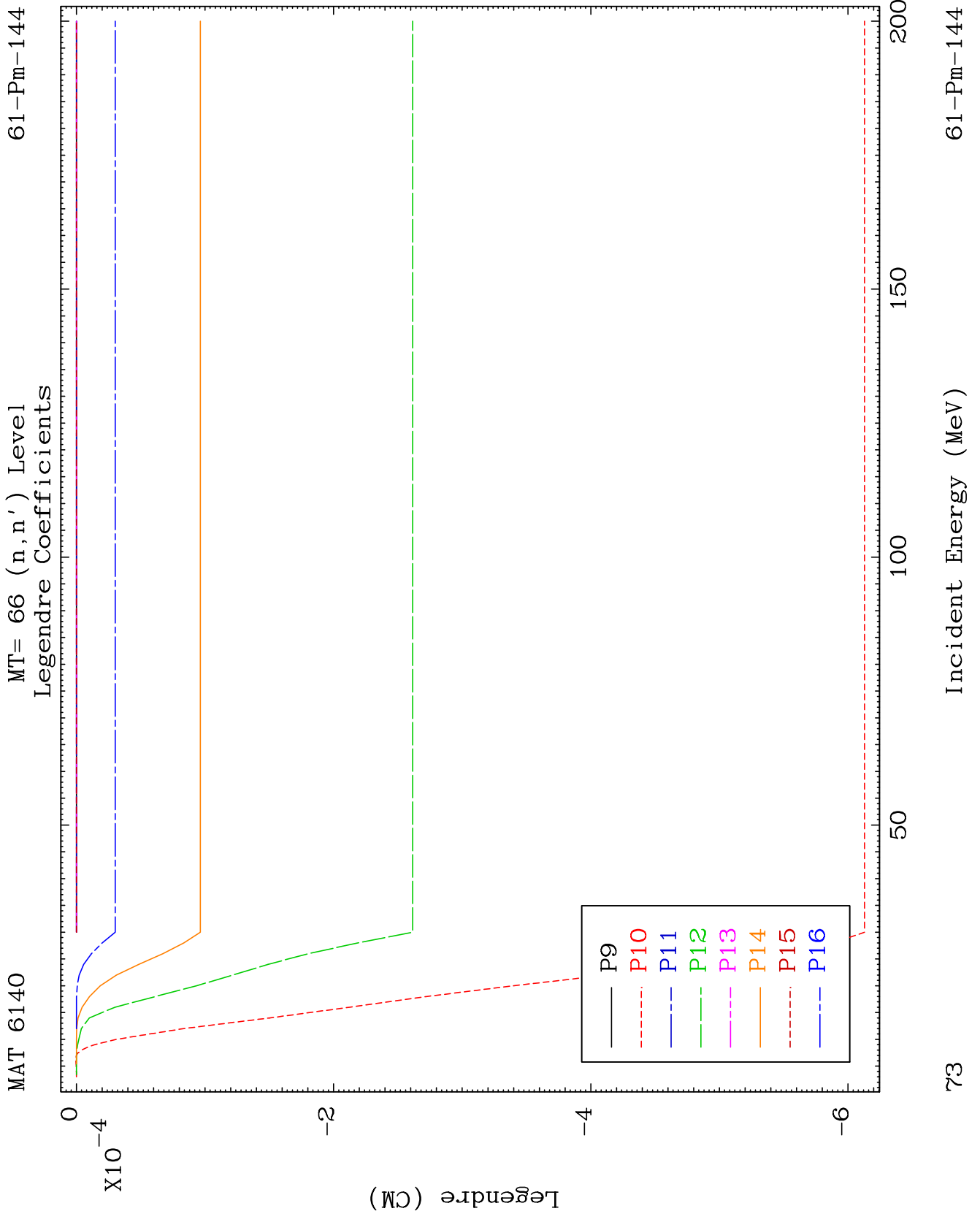
61-Pm-144



61-Pm-144

Incident Energy (MeV)

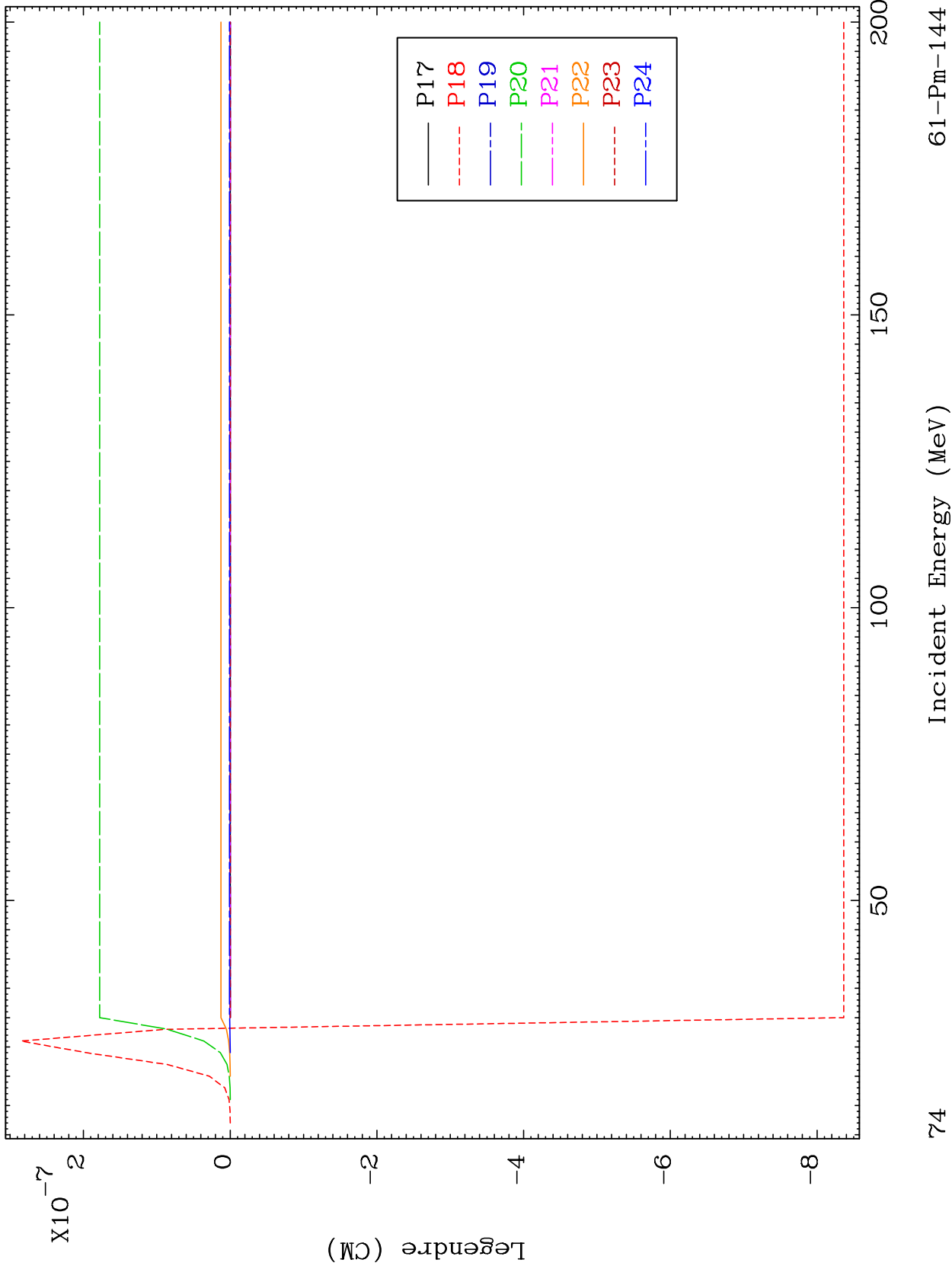
72



MAT 6140

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

61-Pm-144



74

Incident Energy (MeV)

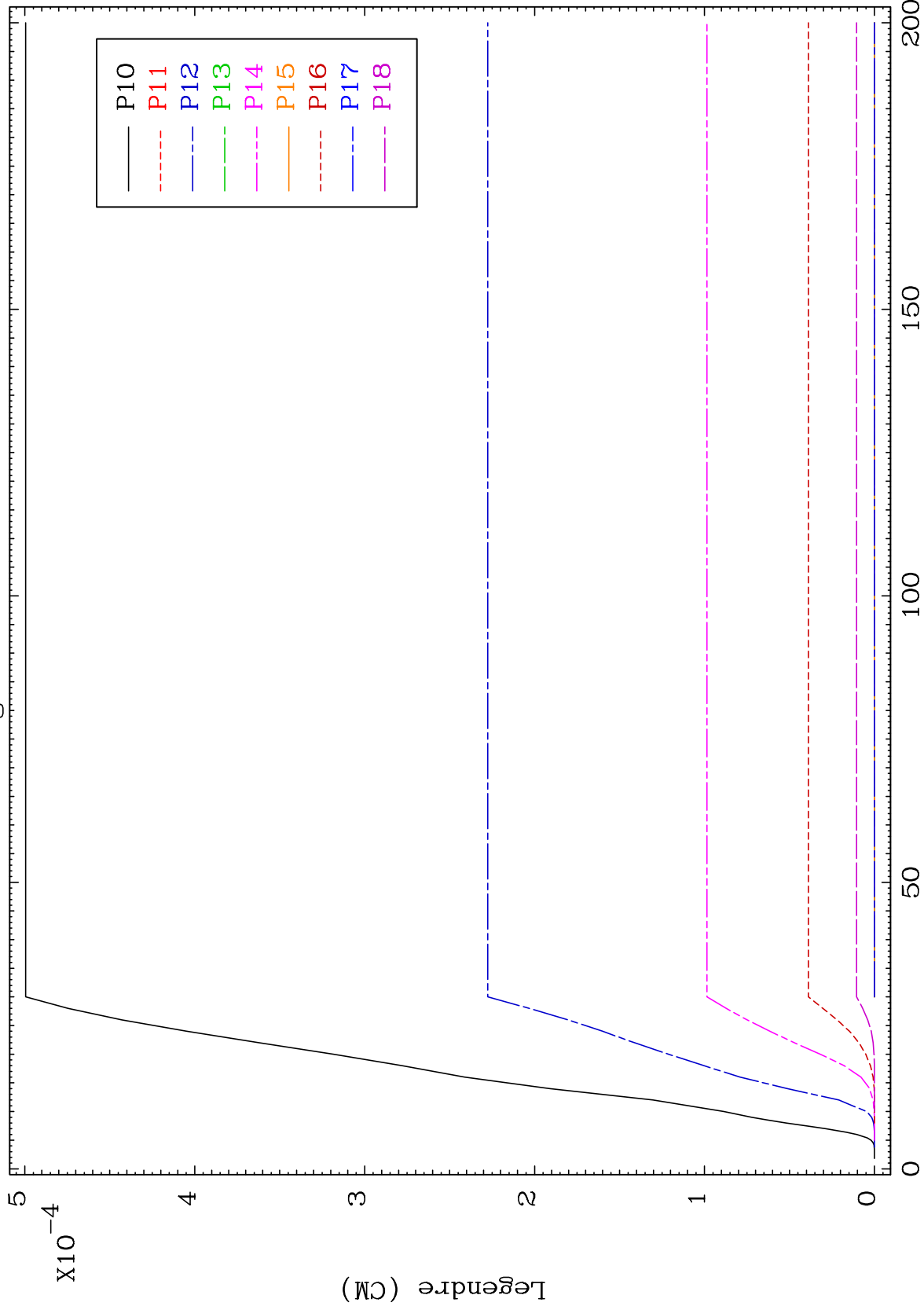
61-Pm-144

MAT 6140

MT= 67 (n,n') Level

61-Pm-144

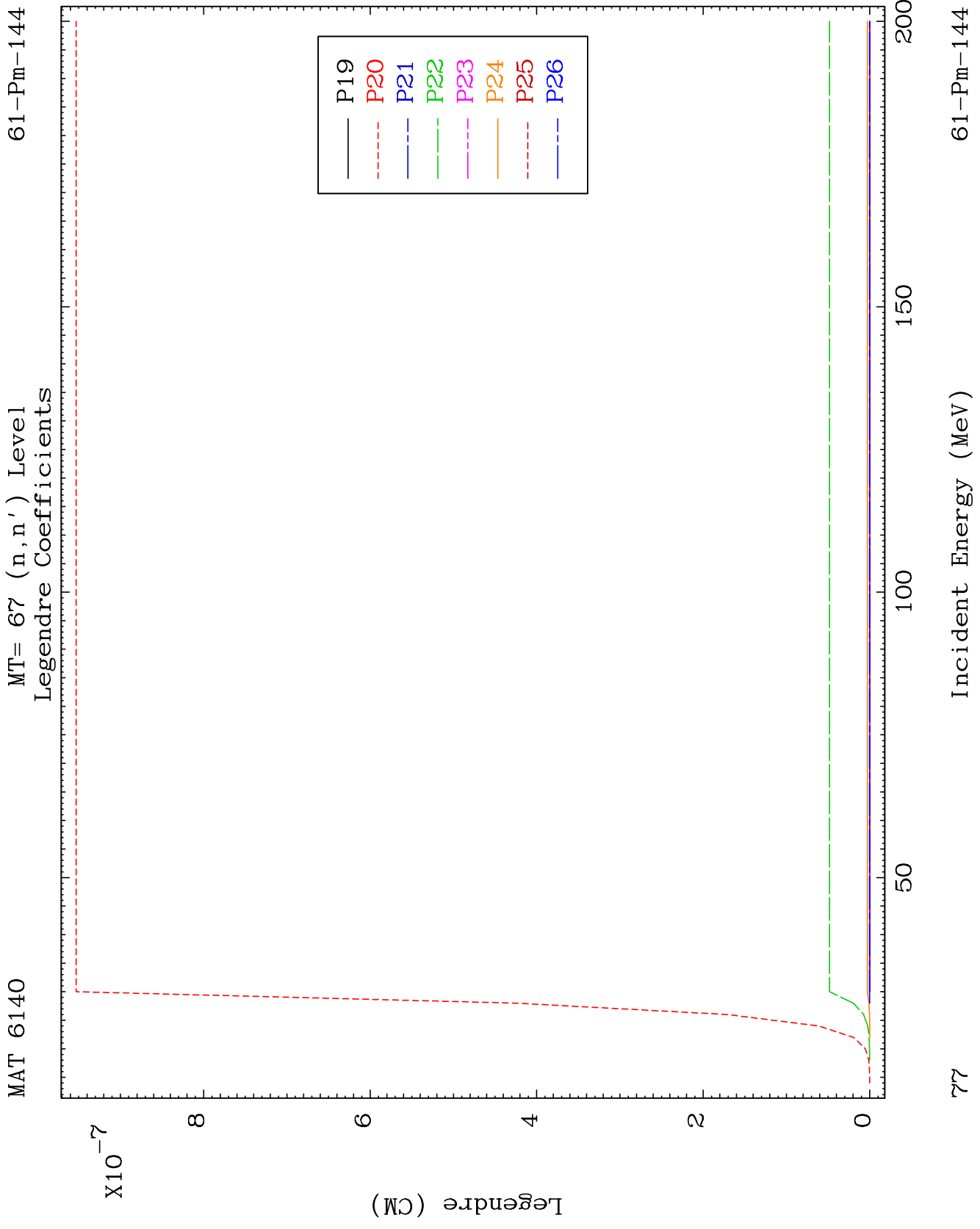
Legendre Coefficients

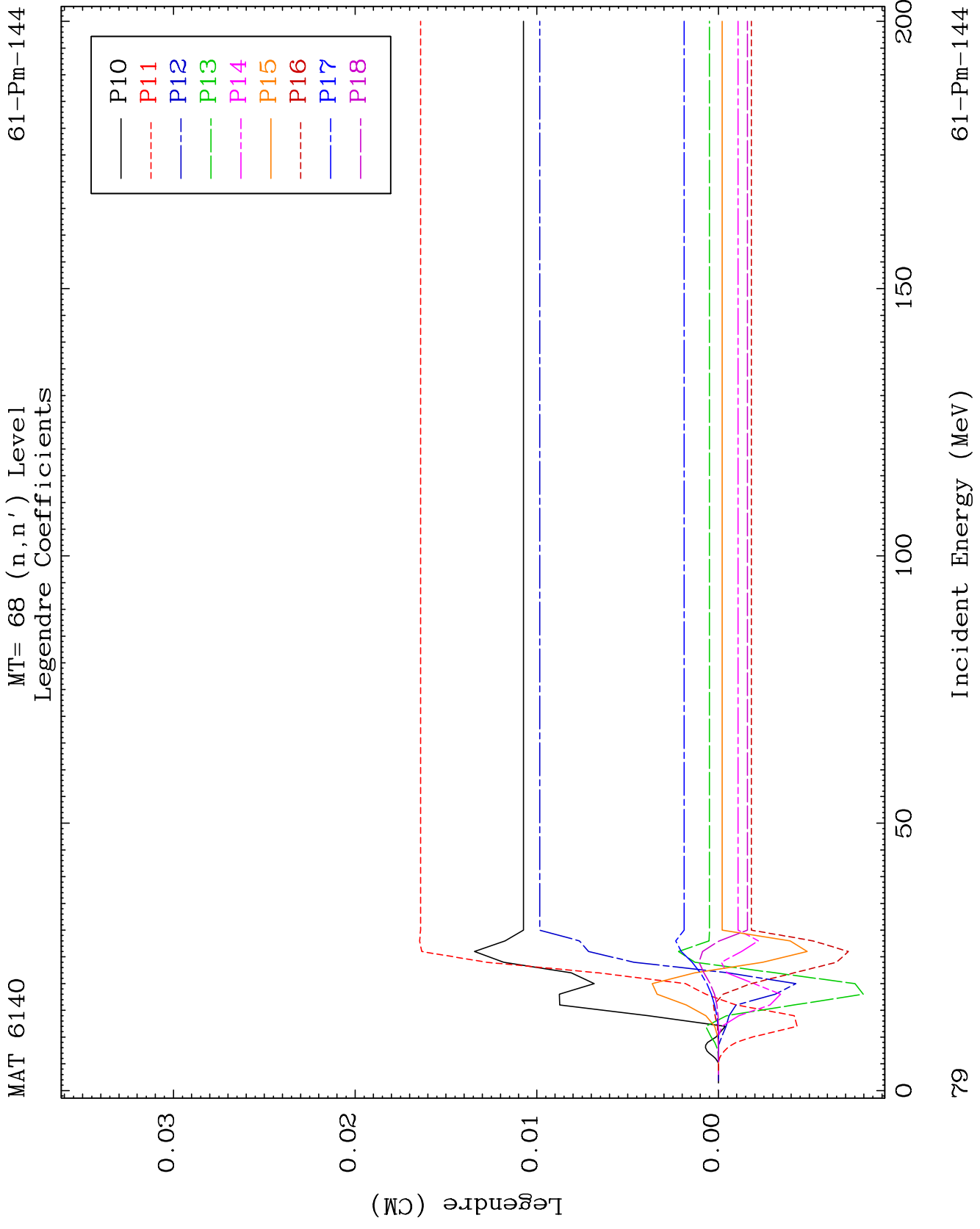


76

Incident Energy (MeV)

61-Pm-144

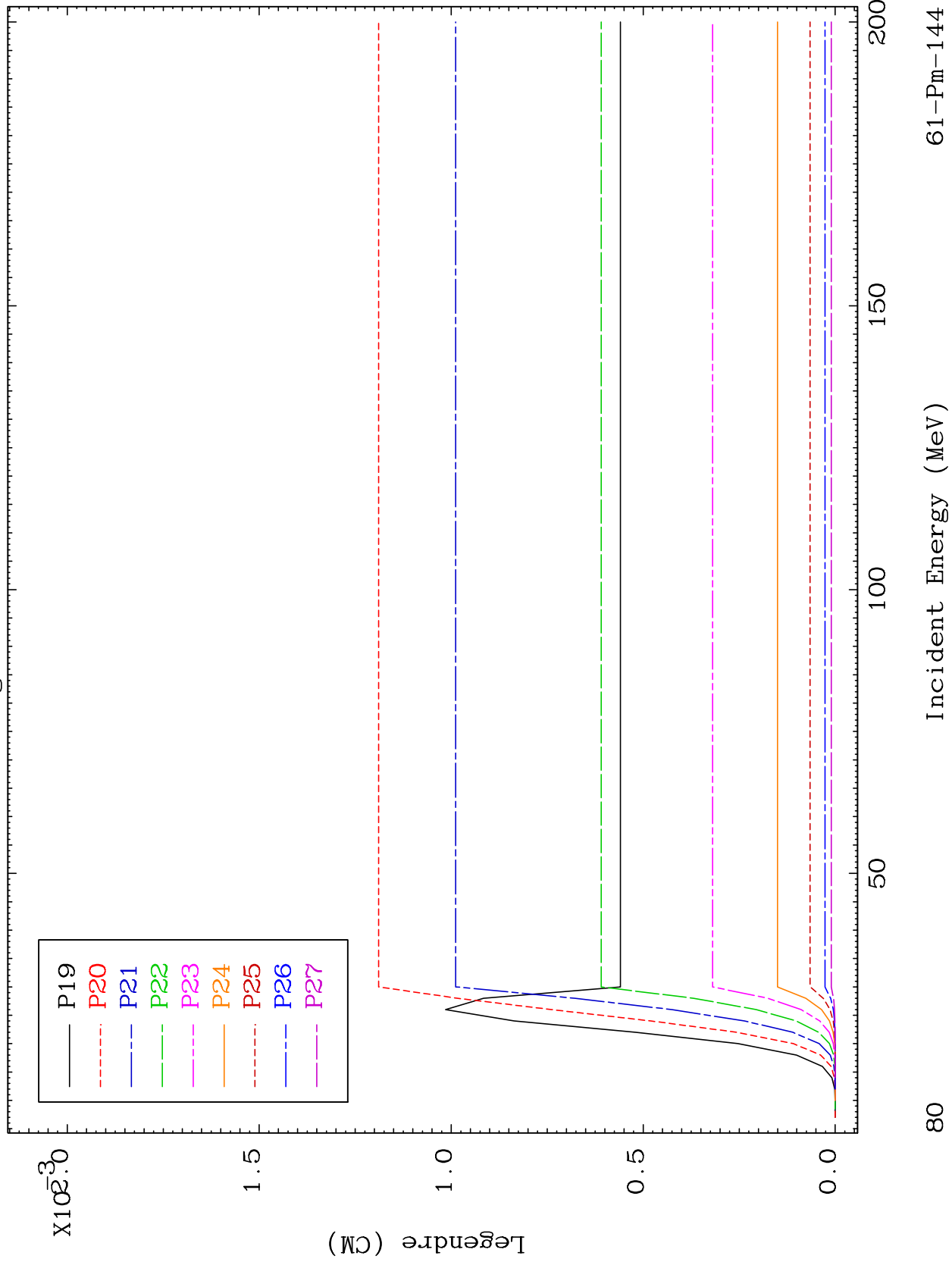




MAT 6140

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

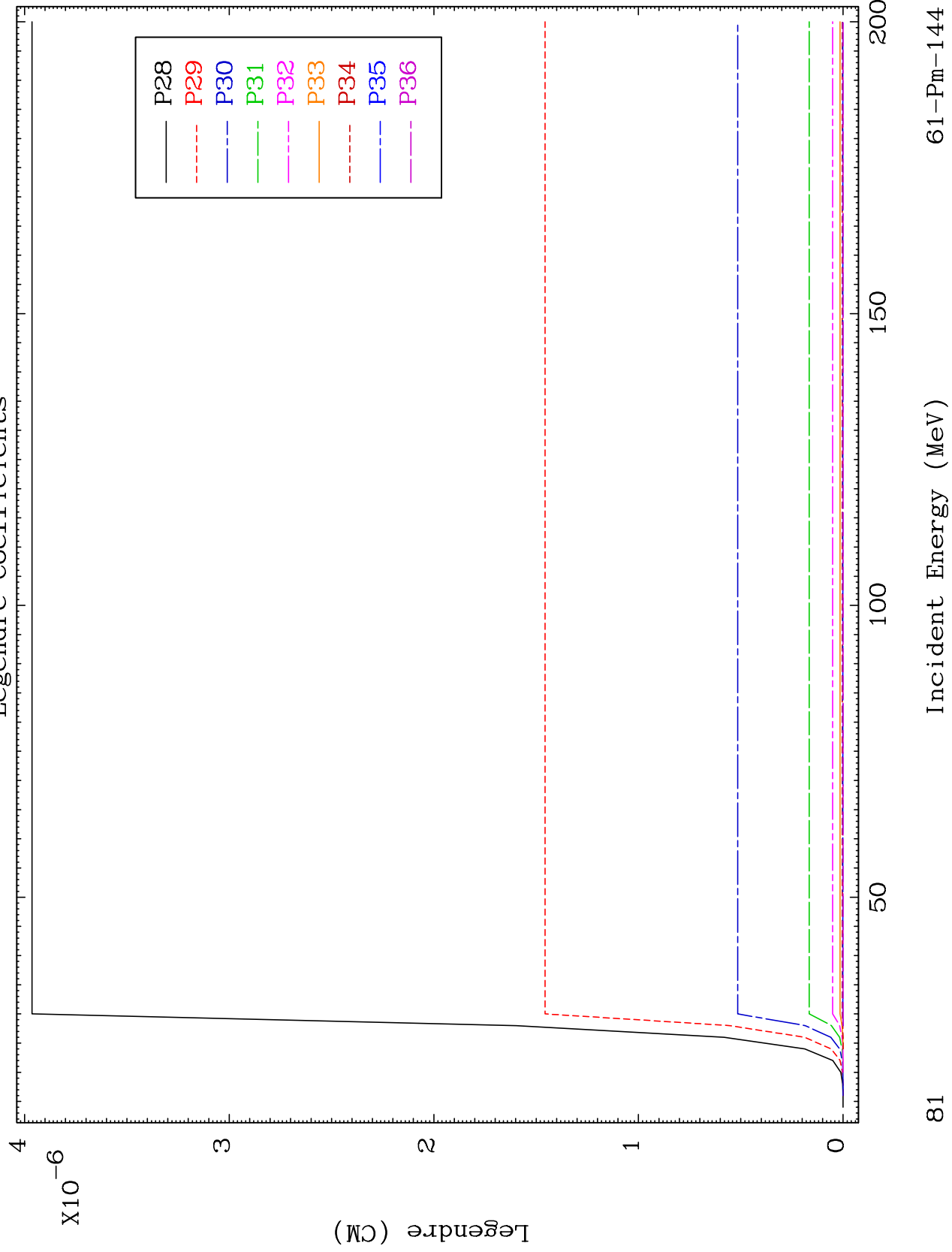
61-Pm-144



MAT 6140

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

61-Pm-144



81

Incident Energy (MeV)

61-Pm-144

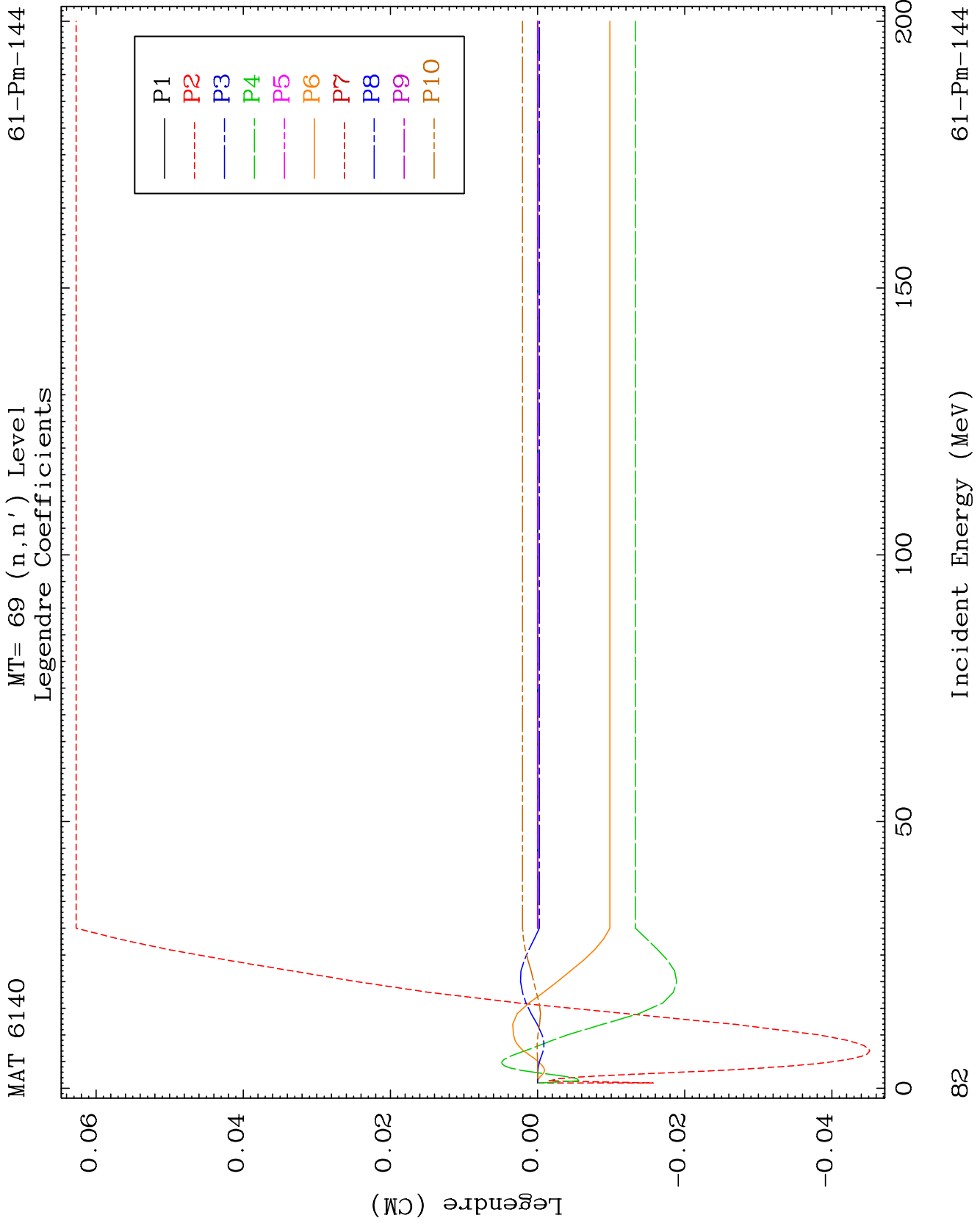
200

150

100

50

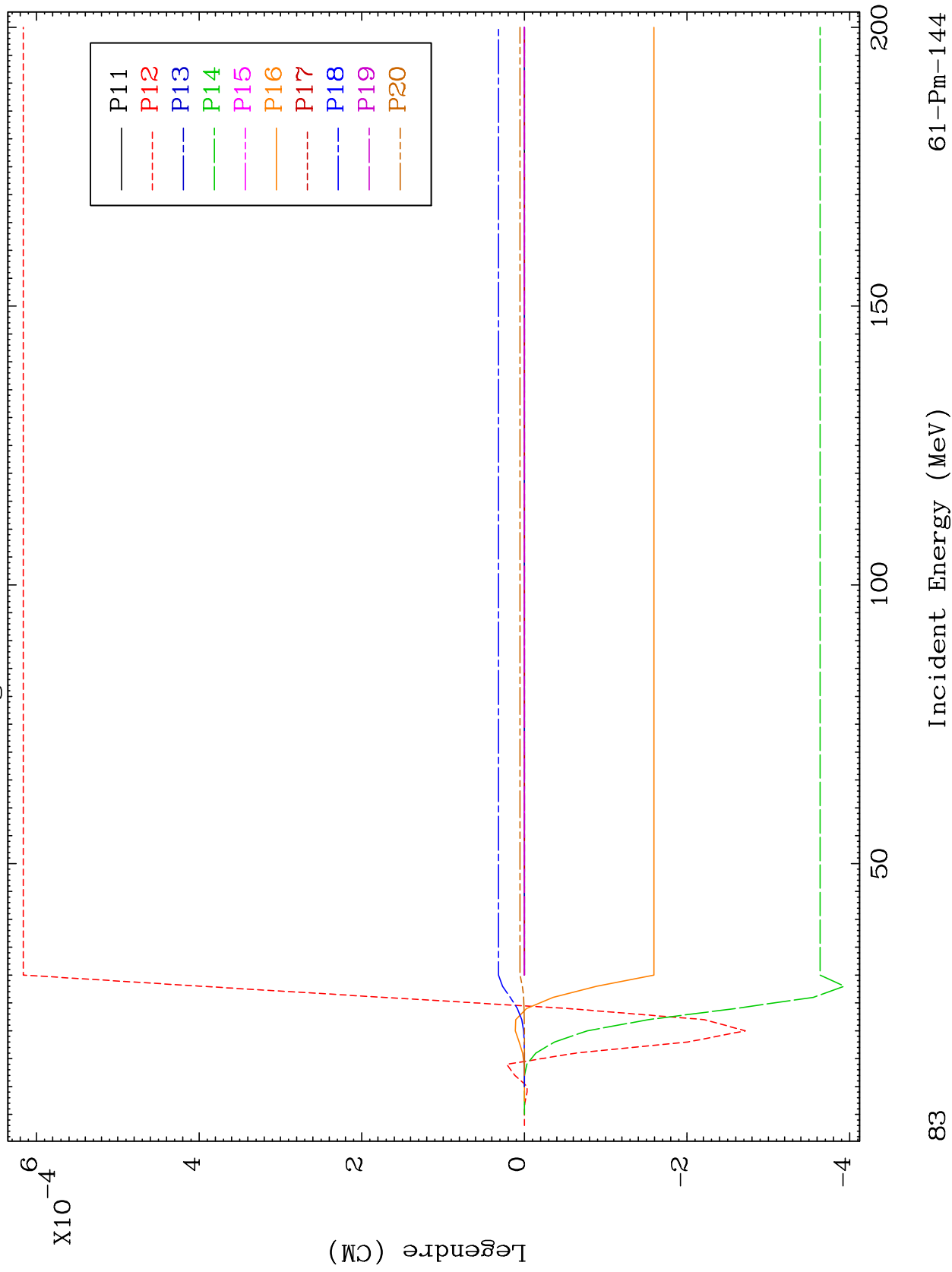
$\times 10^{-6}$



MAT 6140

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

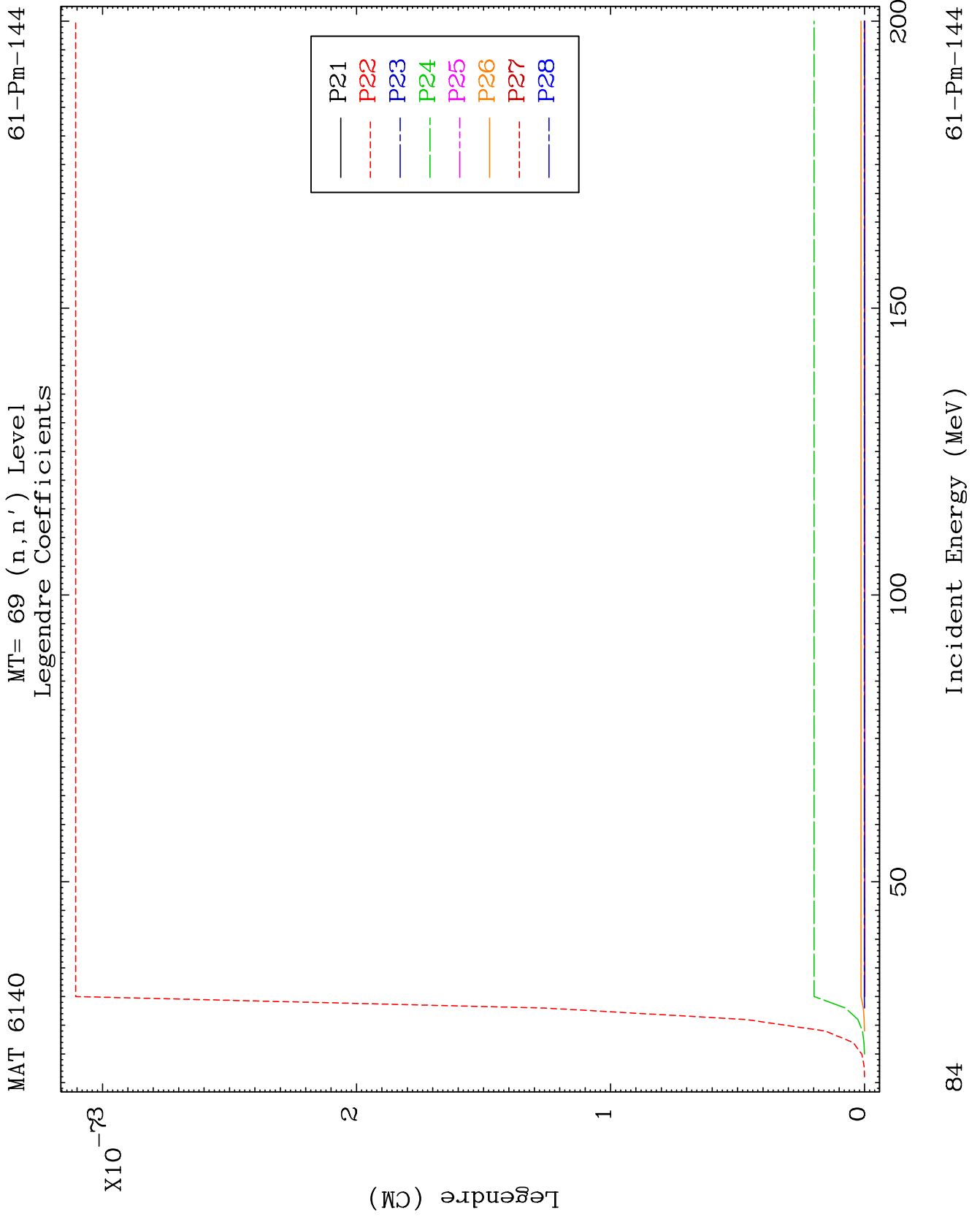
61-Pm-144

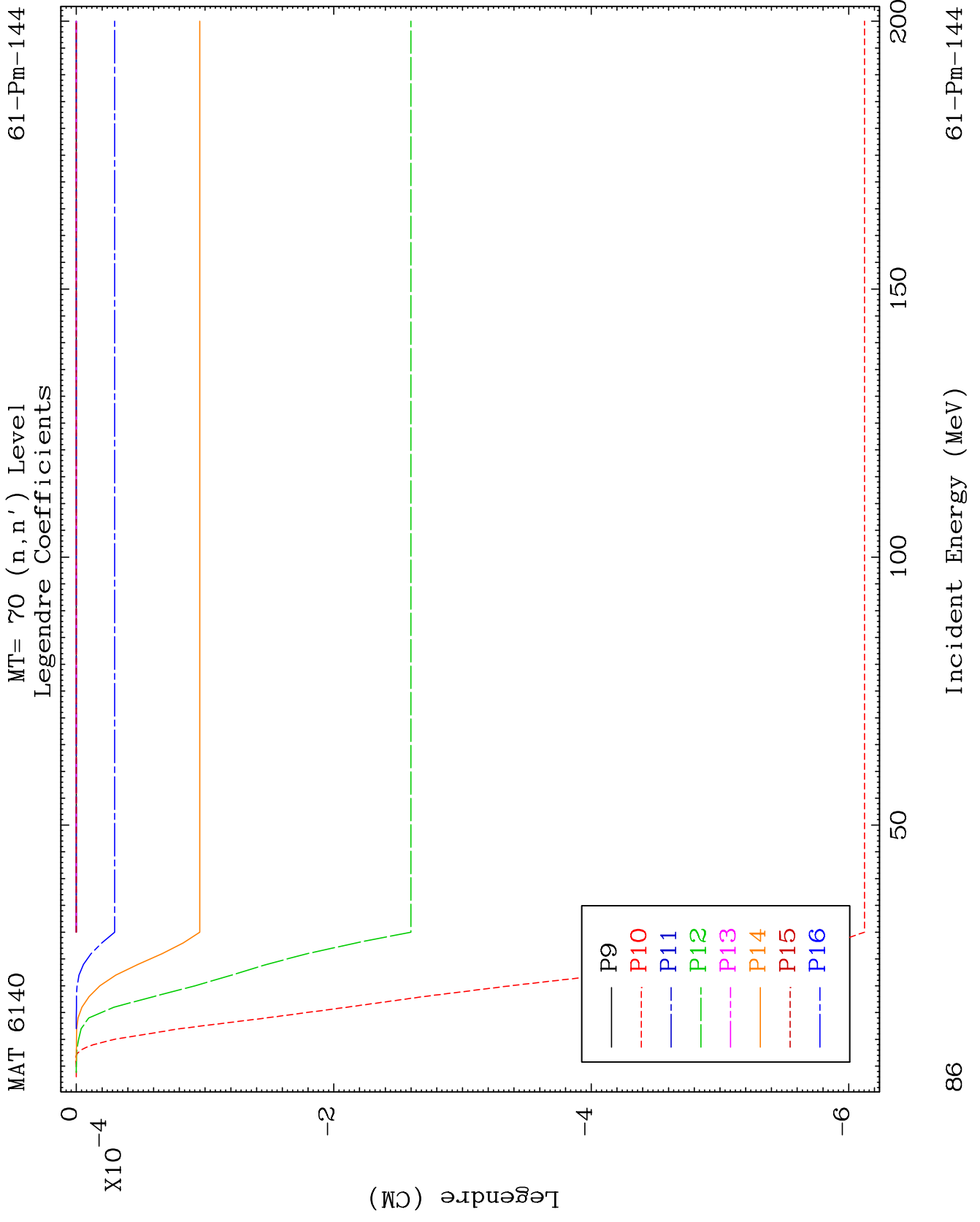


83

Incident Energy (MeV)

61-Pm-144

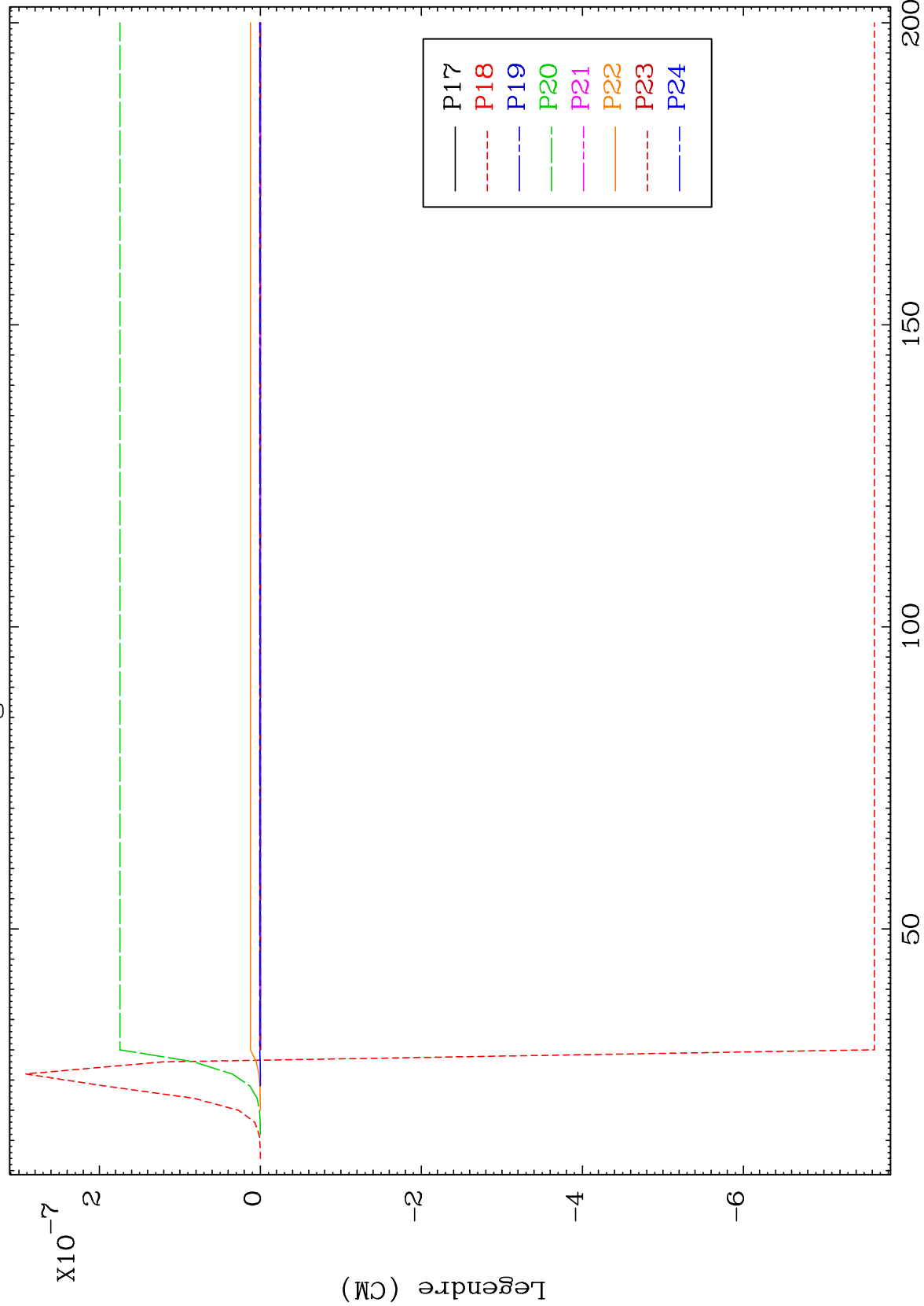




MAT 6140

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

61-Pm-144



87

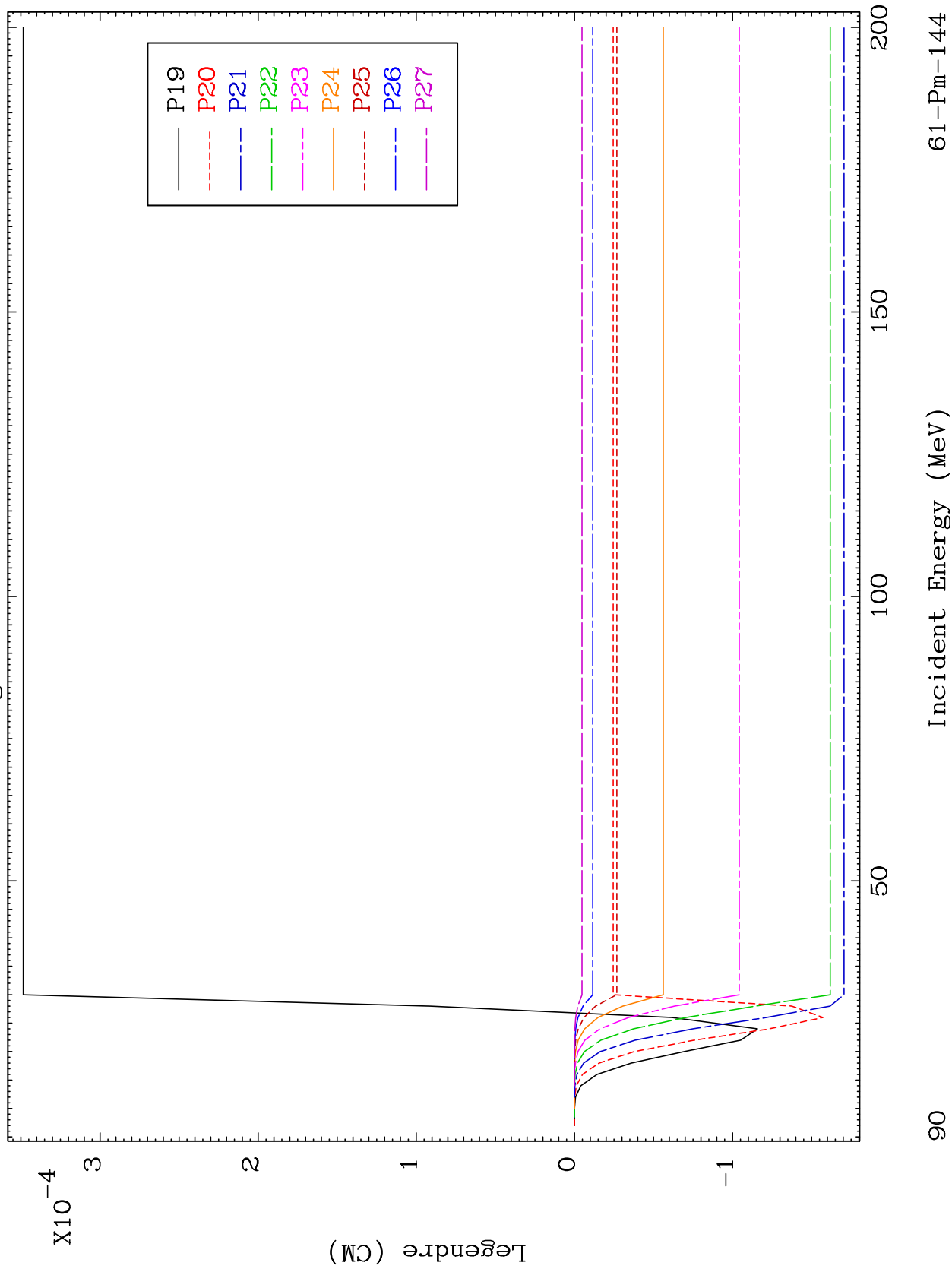
Incident Energy (MeV)

61-Pm-144

MAT 6140

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

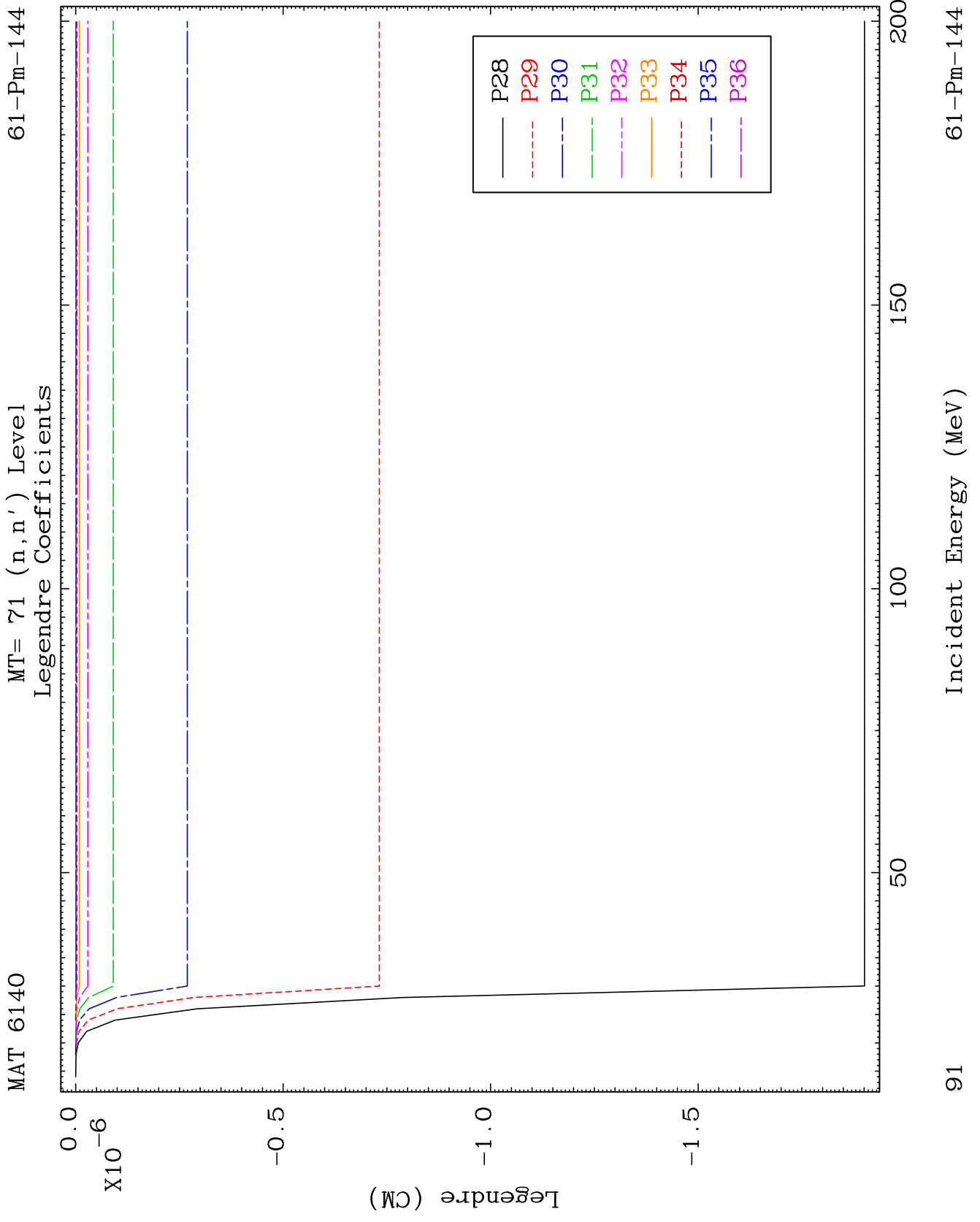
61-Pm-144



90

Incident Energy (MeV)

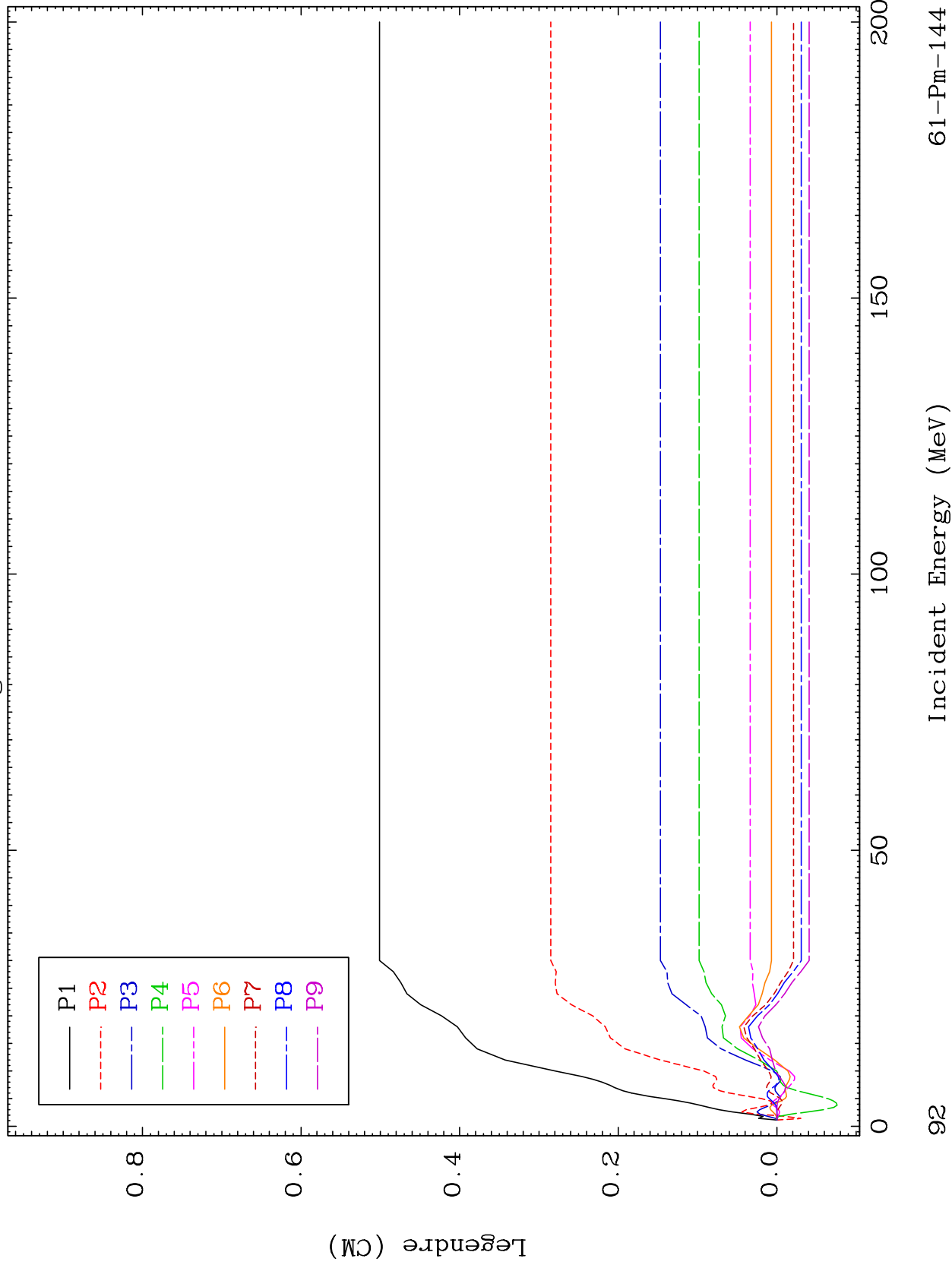
61-Pm-144



MAT 6140

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

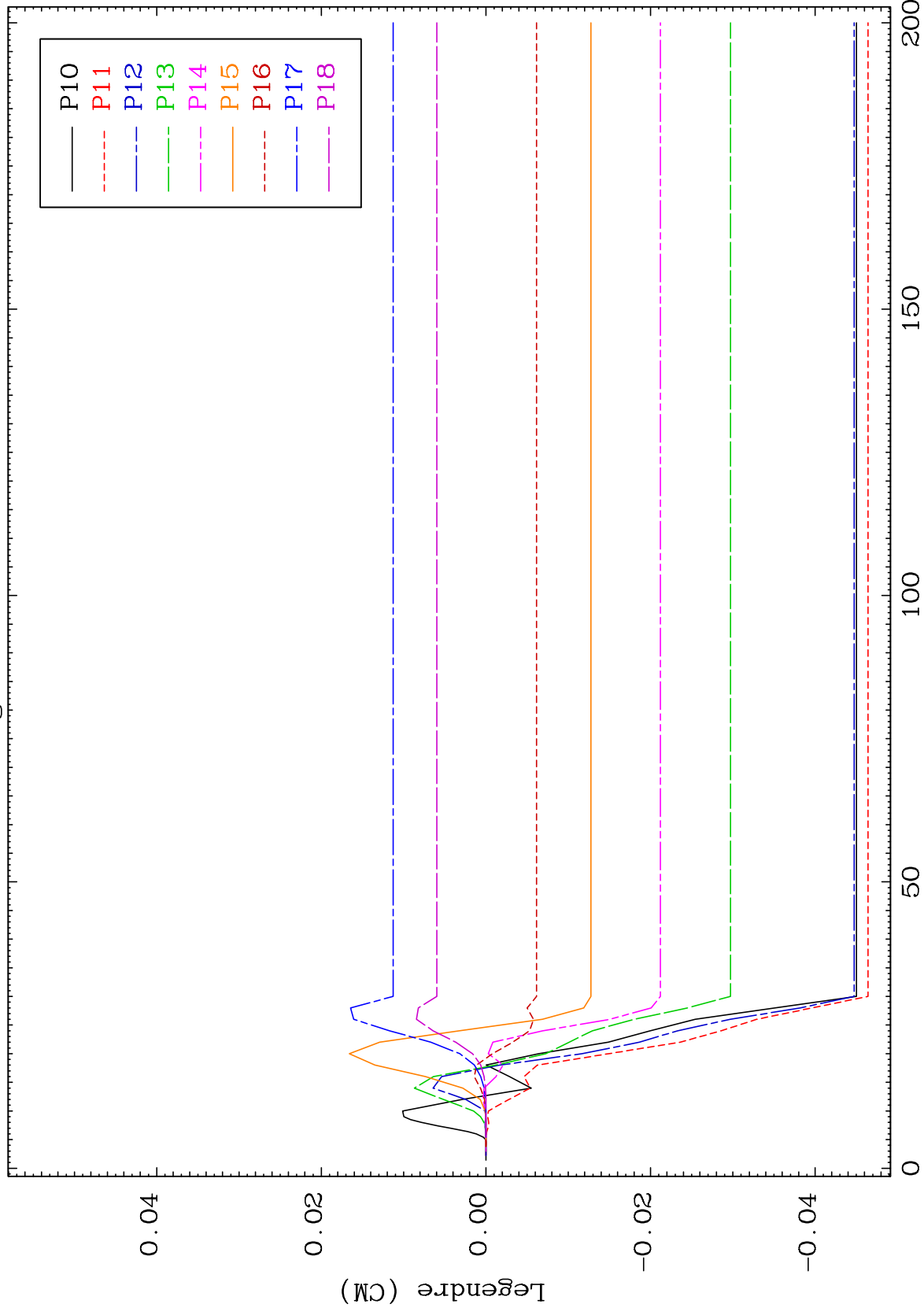
61-Pm-144



MAT 6140

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

61-Pm-144



93

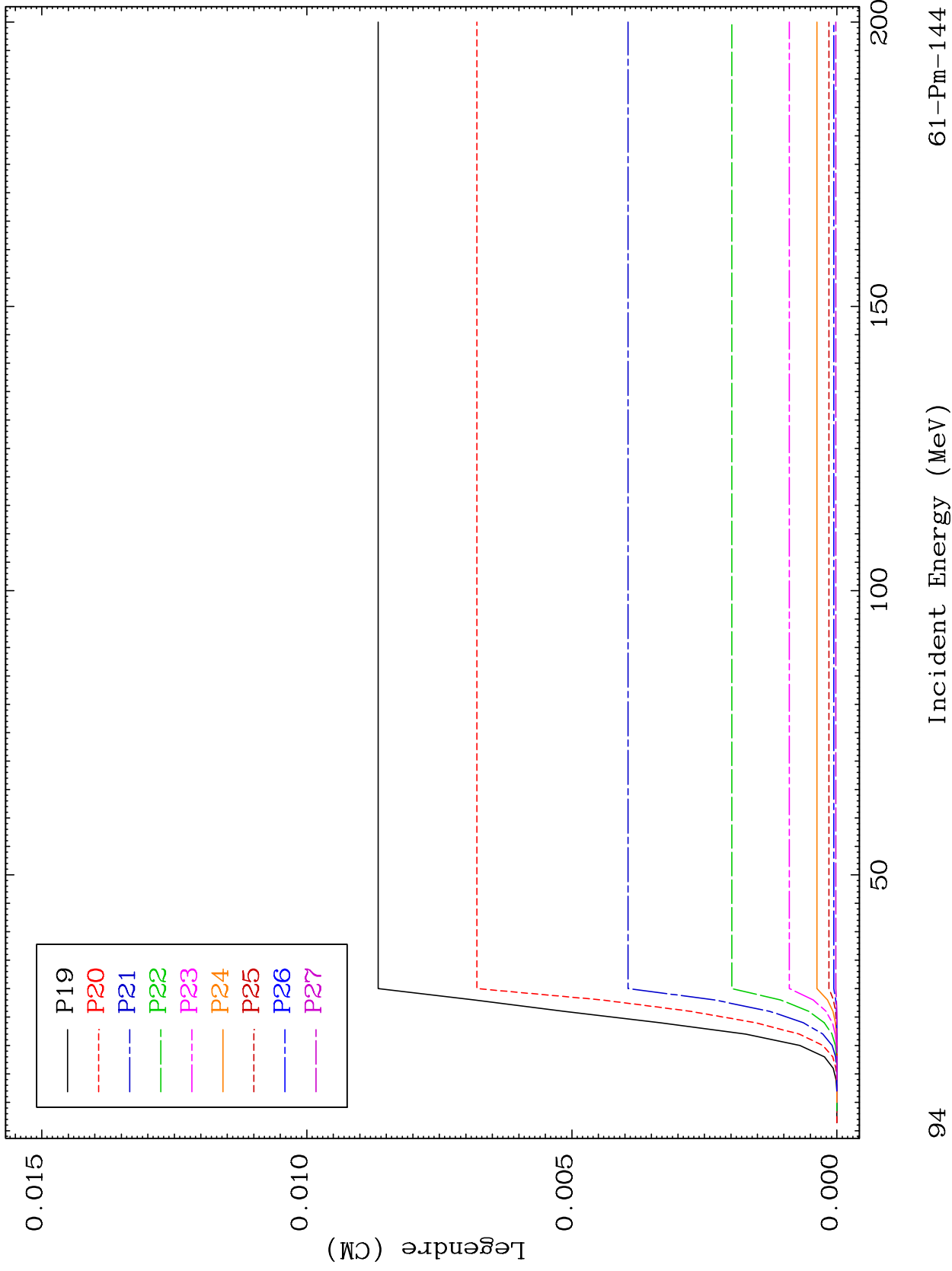
Incident Energy (MeV)

61-Pm-144

MAT 6140

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

61-Pm-144



94

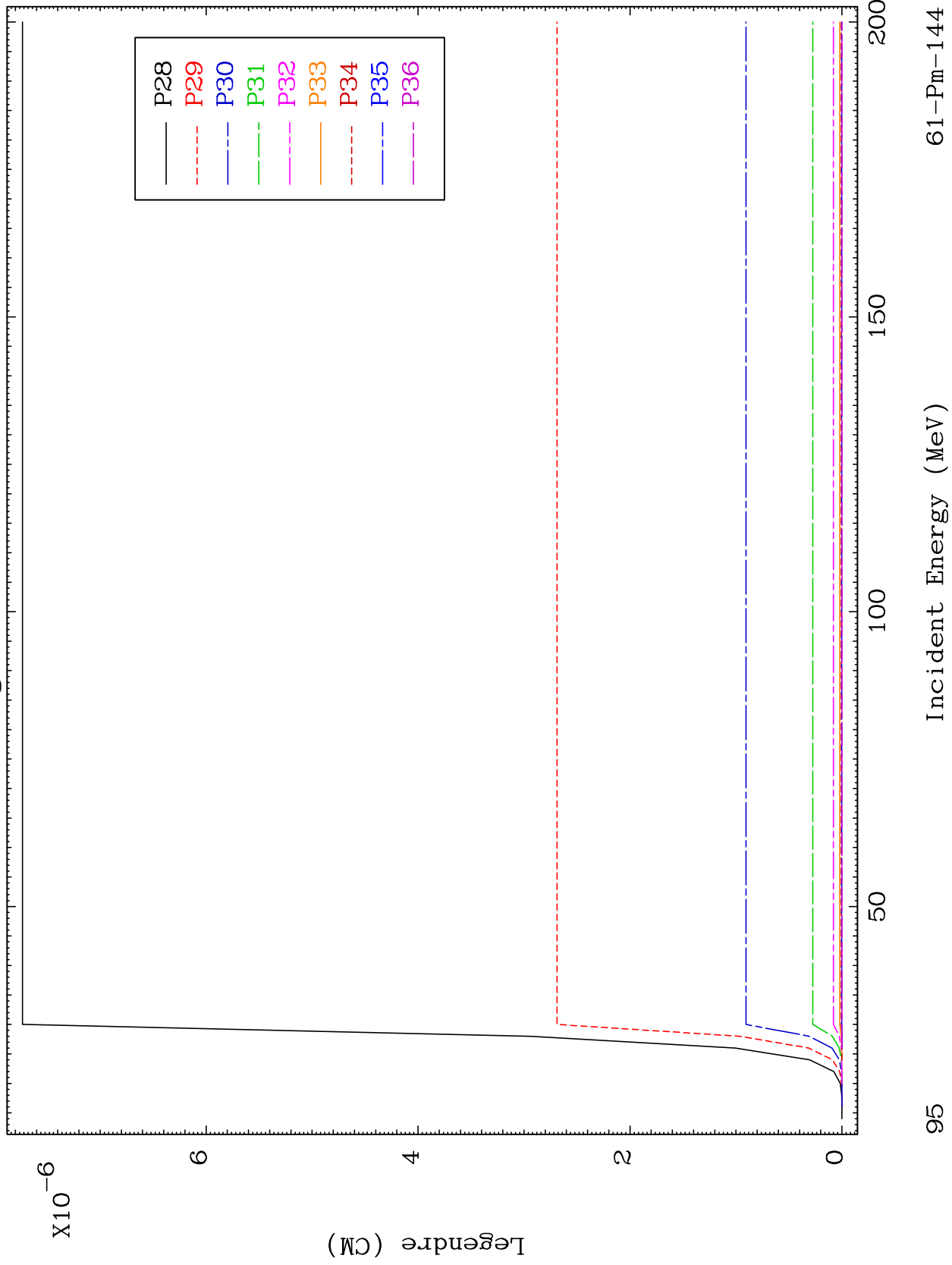
Incident Energy (MeV)

61-Pm-144

MAT 6140

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

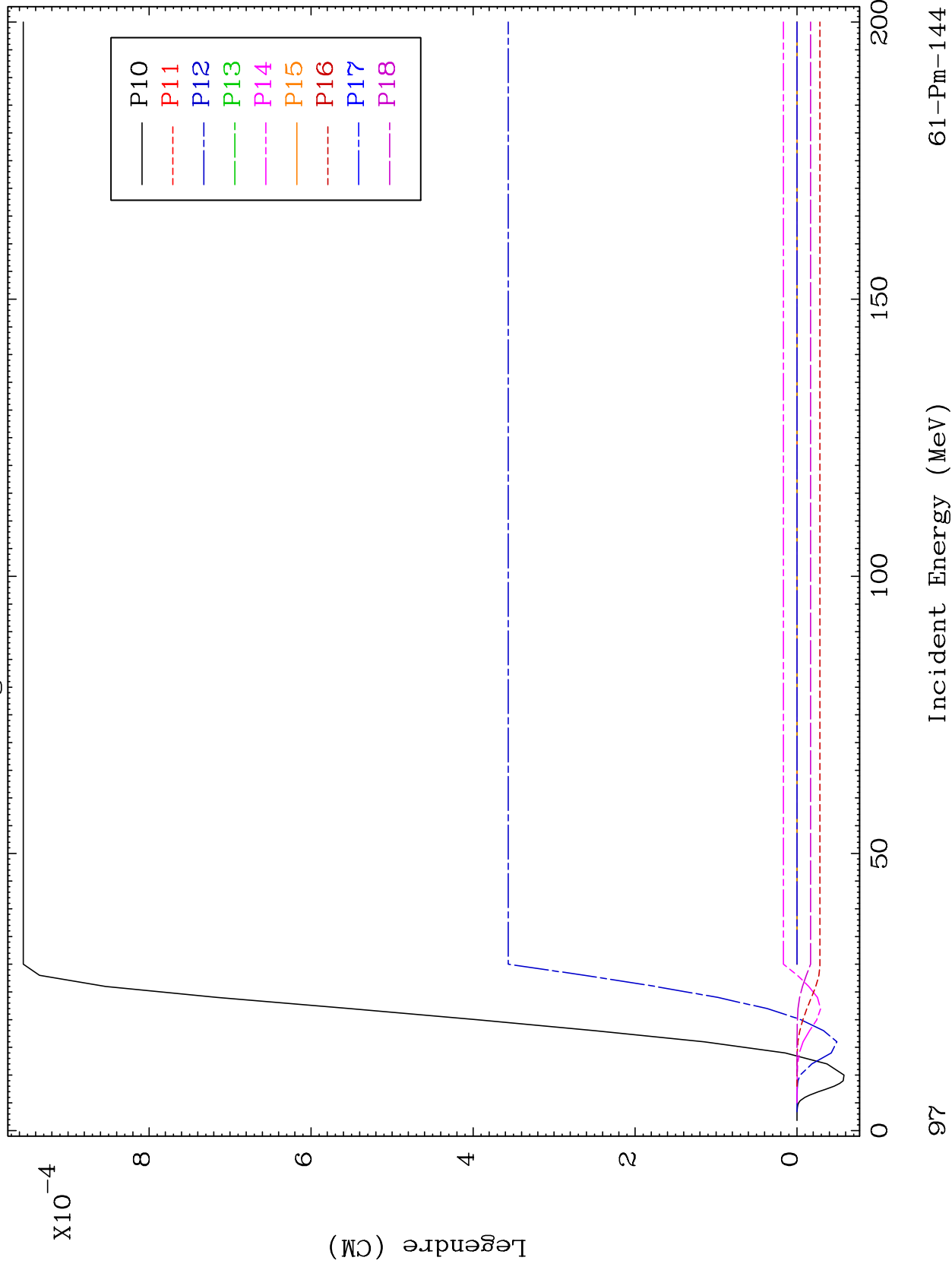
61-Pm-144

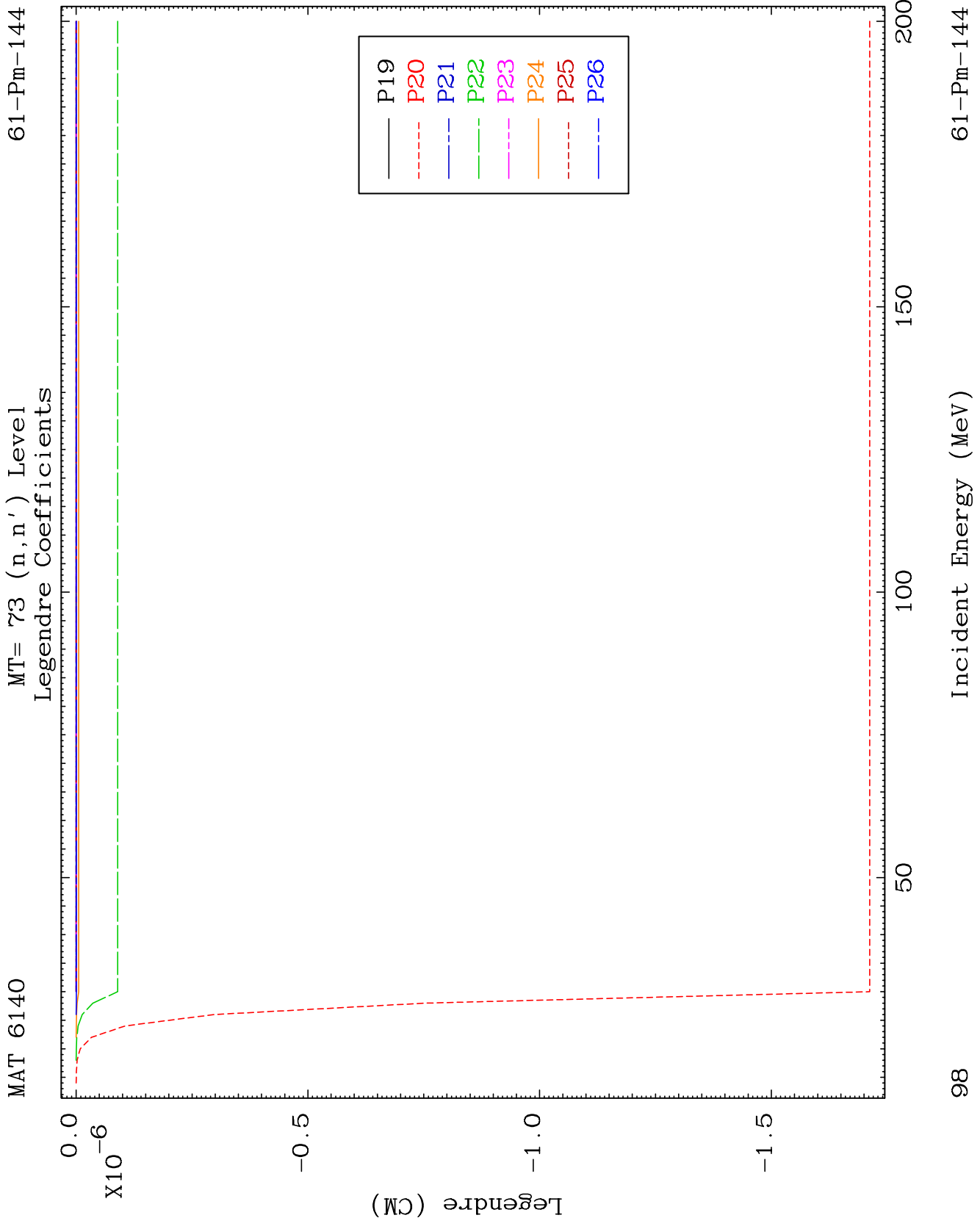


MAT 6140

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

61-Pm-144

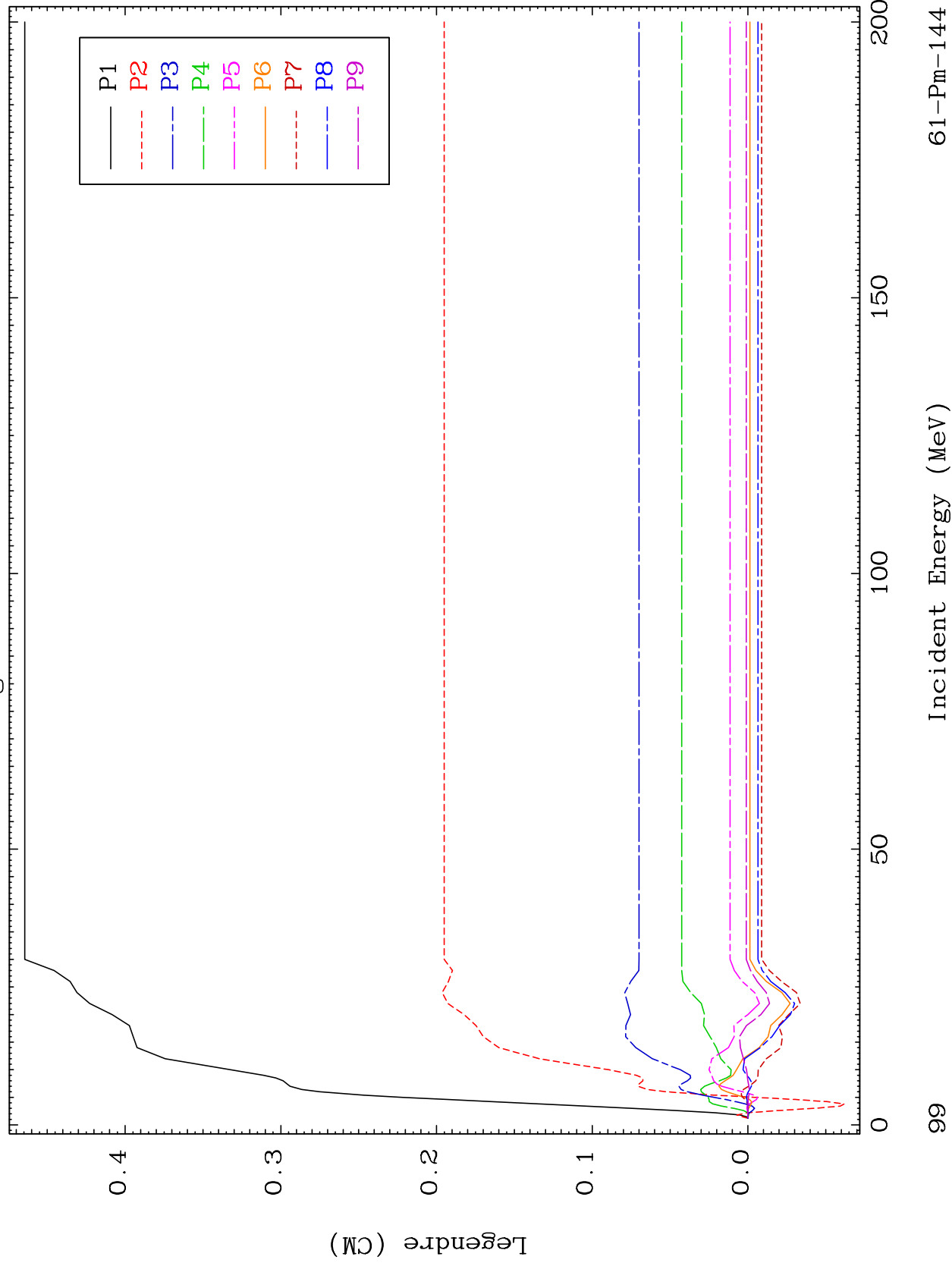




MAT 6140

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

61-Pm-144



61-Pm-144

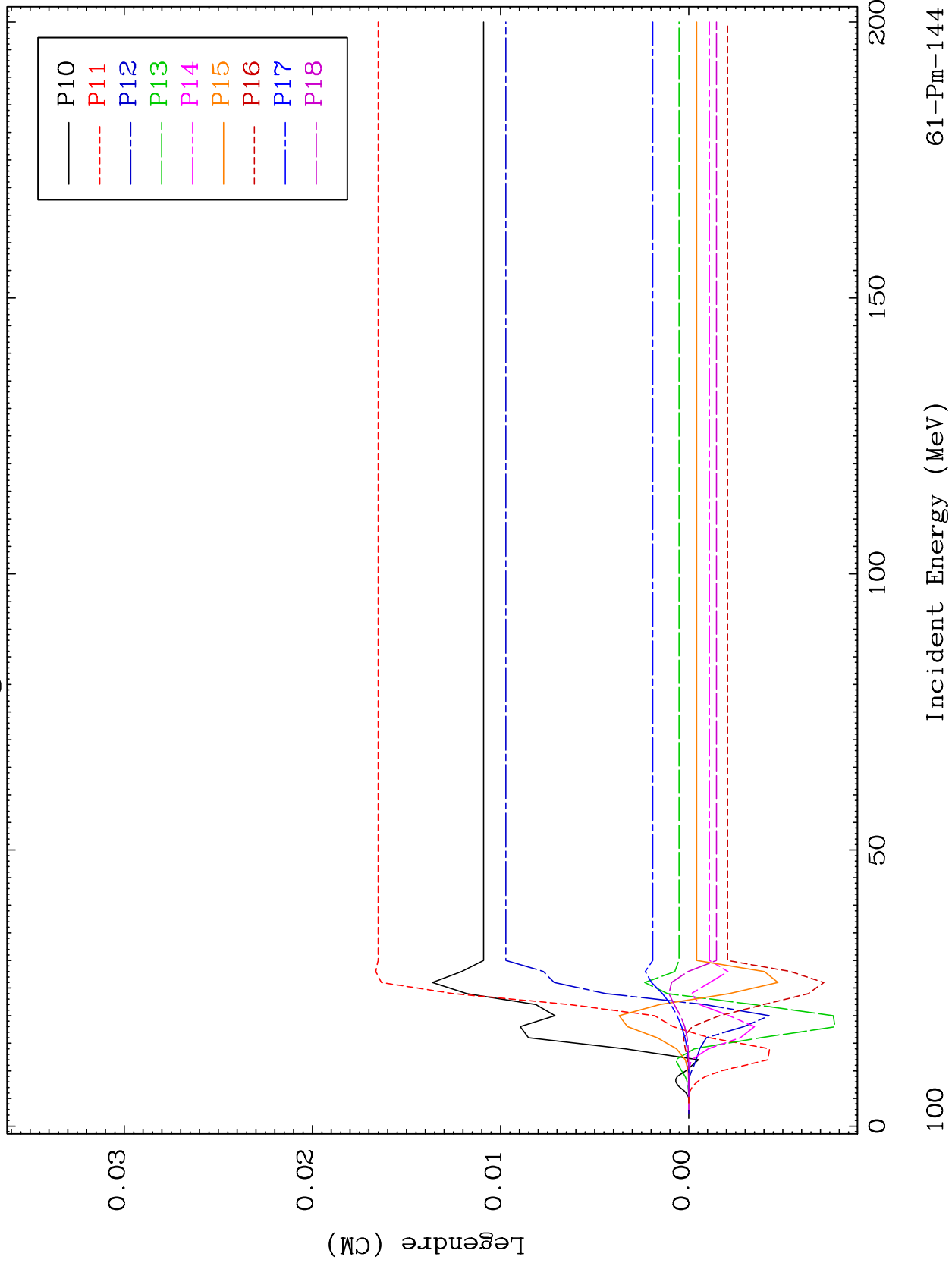
Incident Energy (MeV)

99

MAT 6140

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

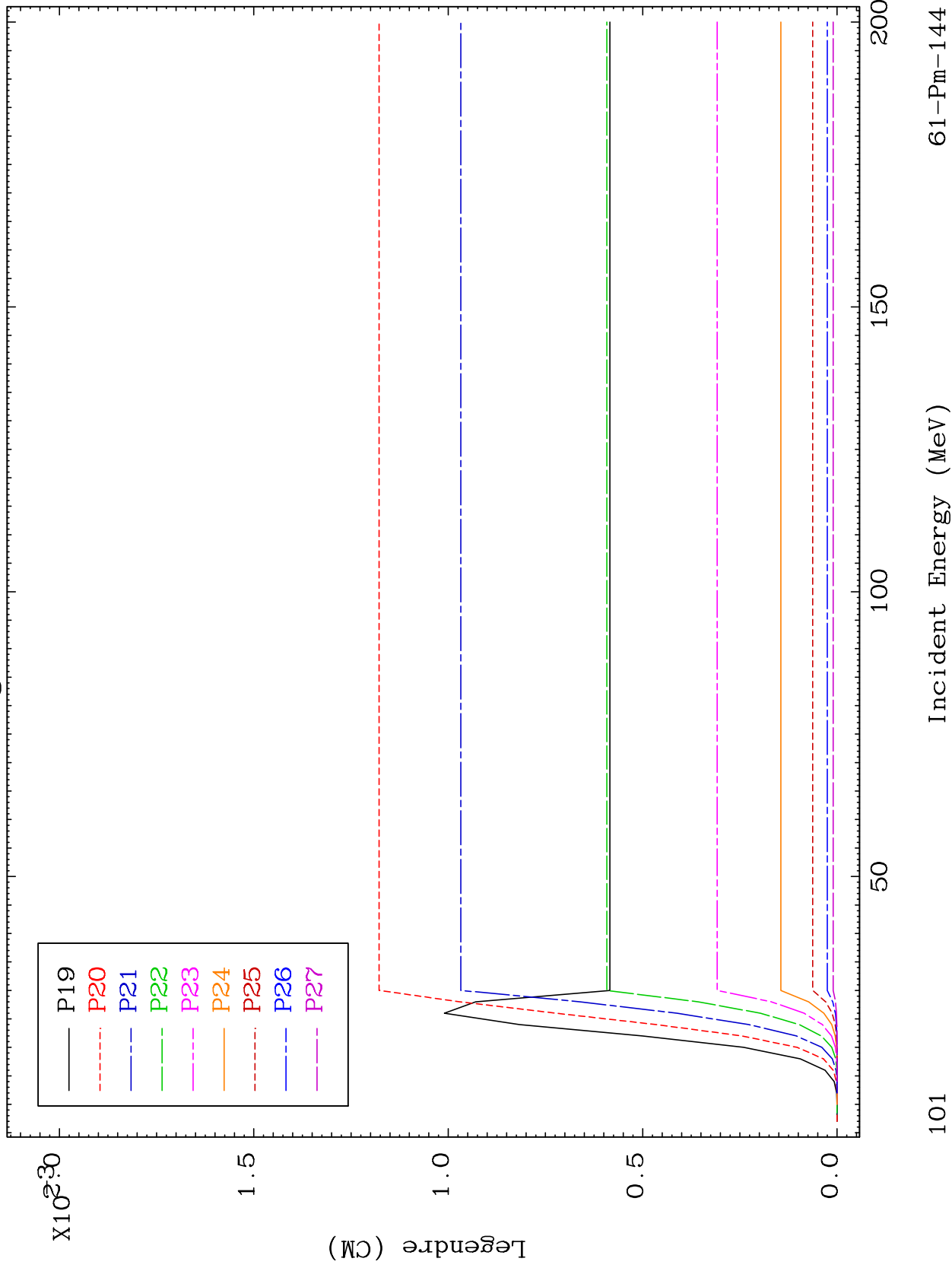
61-Pm-144



MAT 6140

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

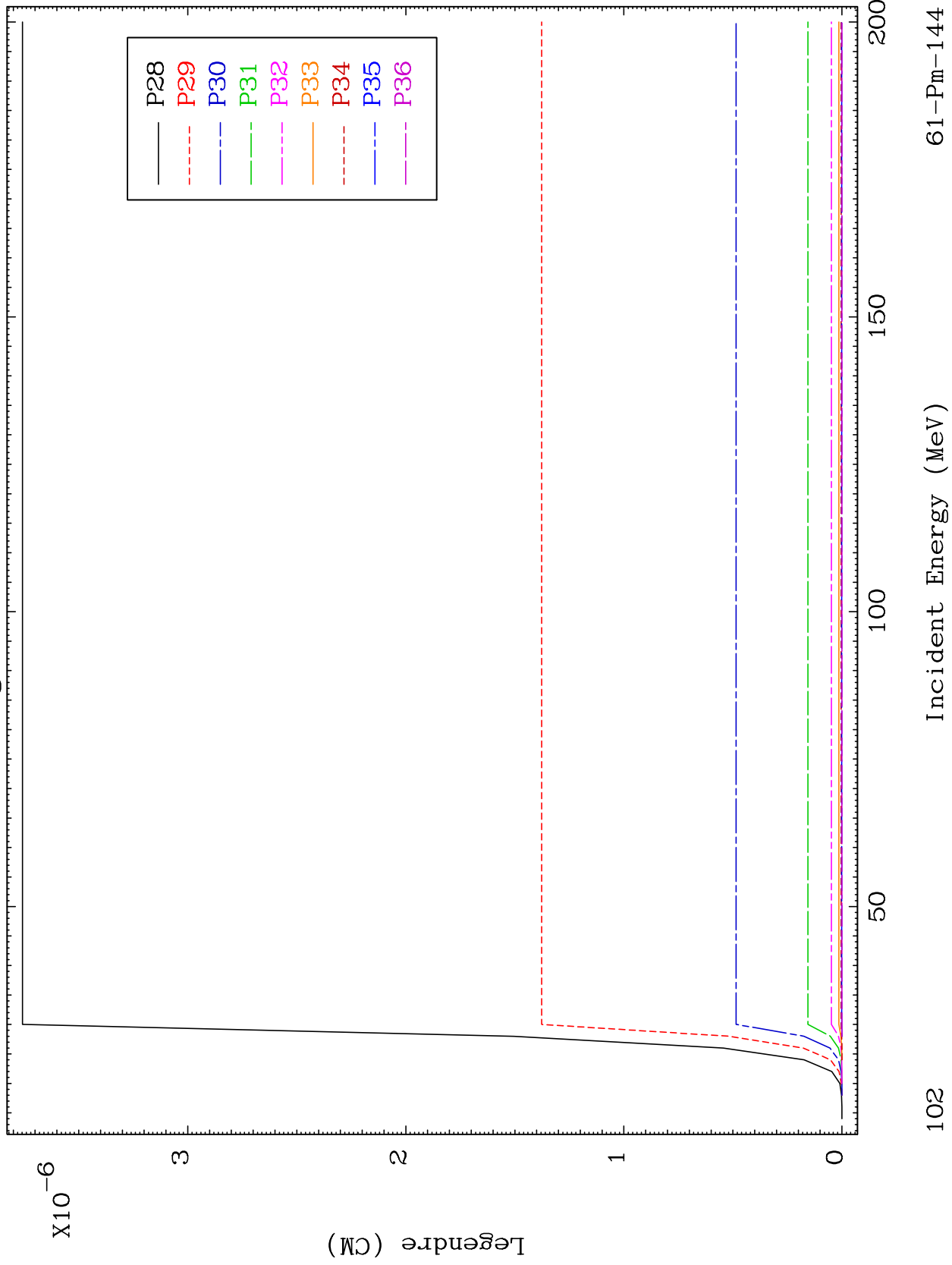
61-Pm-144



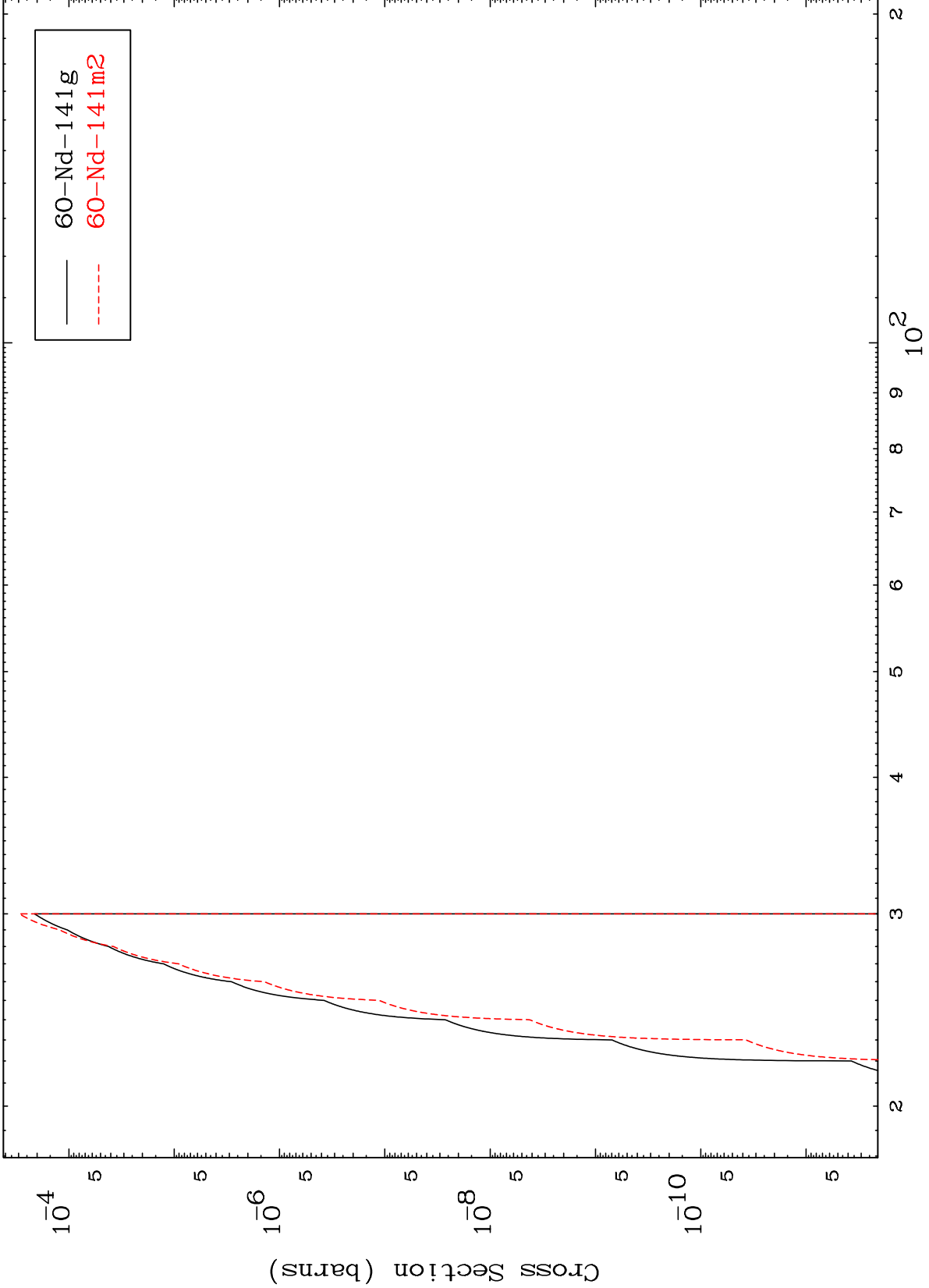
MAT 6140

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

61-Pm-144



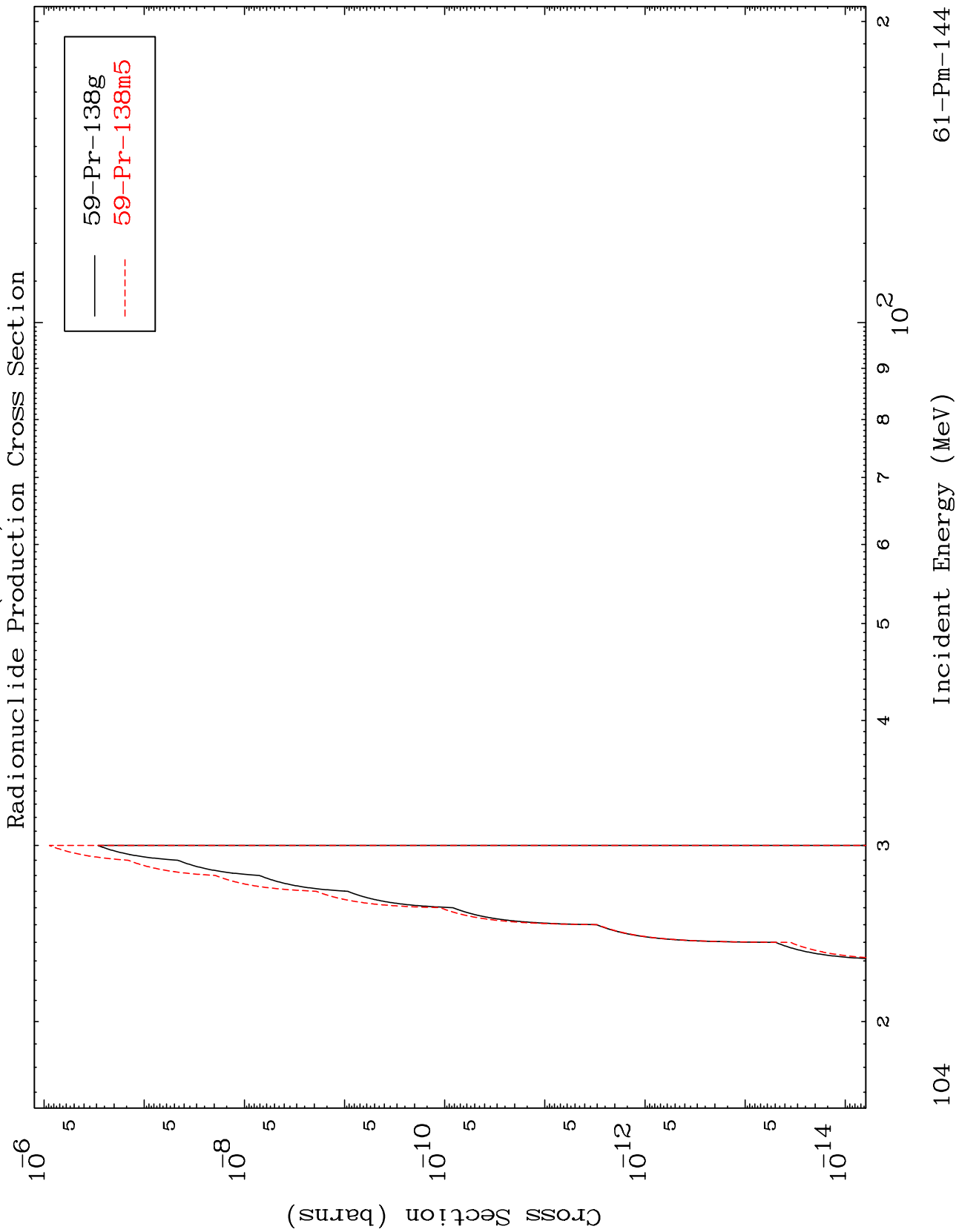
Radionuclide Production Cross Section



MAT 6140

(n,3n) α

61-Pm-144



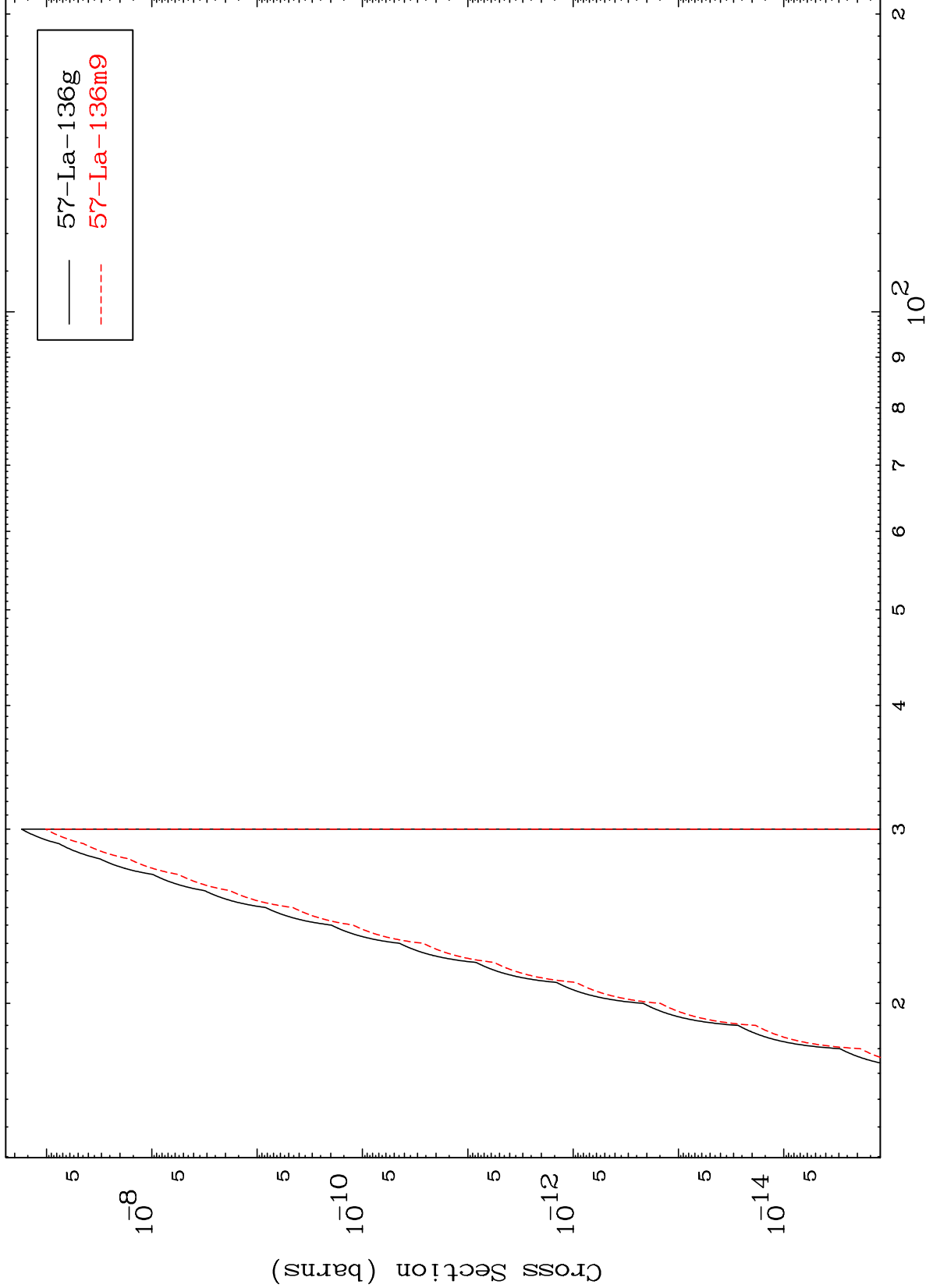
104

MAT 6140

(n,n') 2α

61-Pm-144

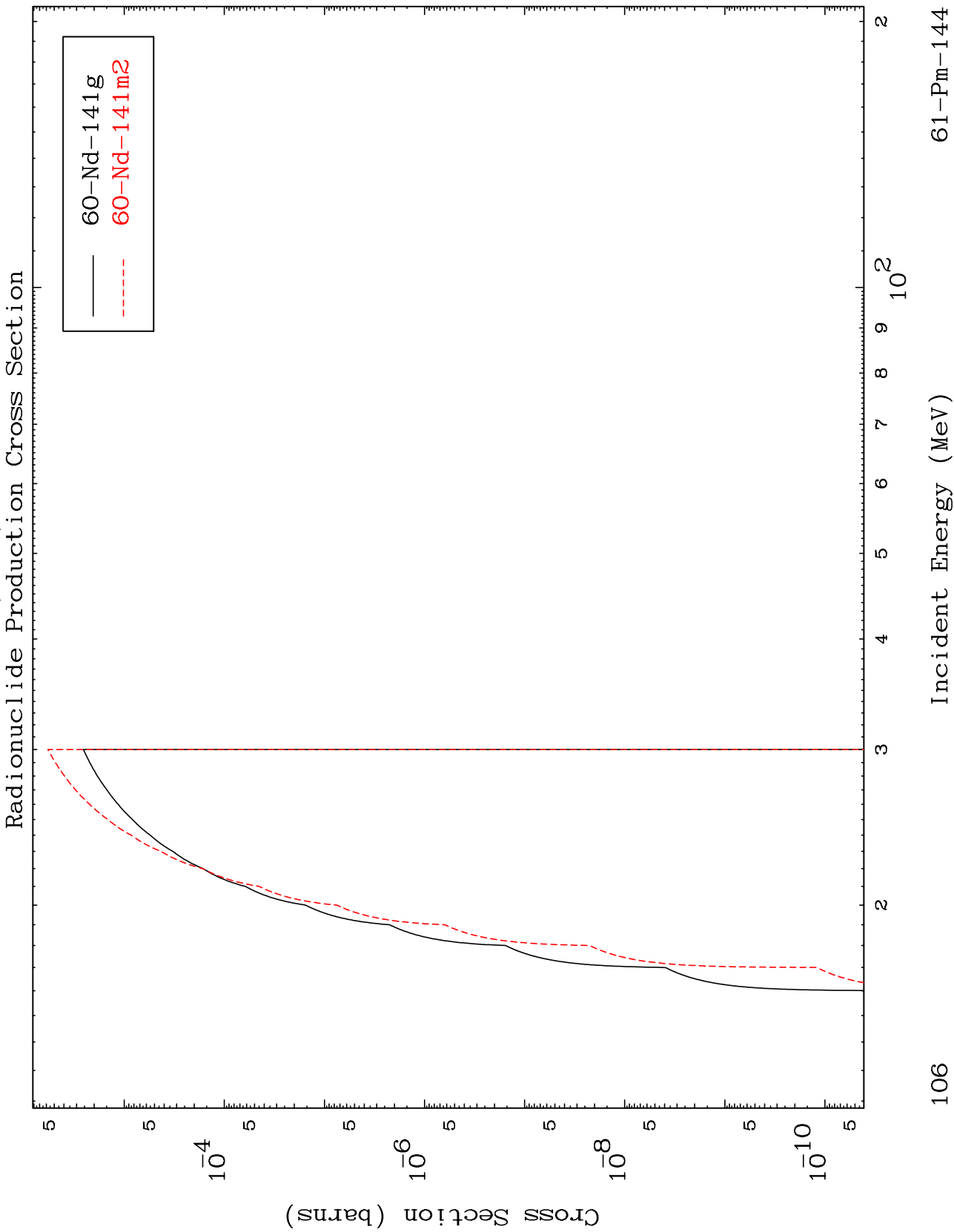
Radionuclide Production Cross Section



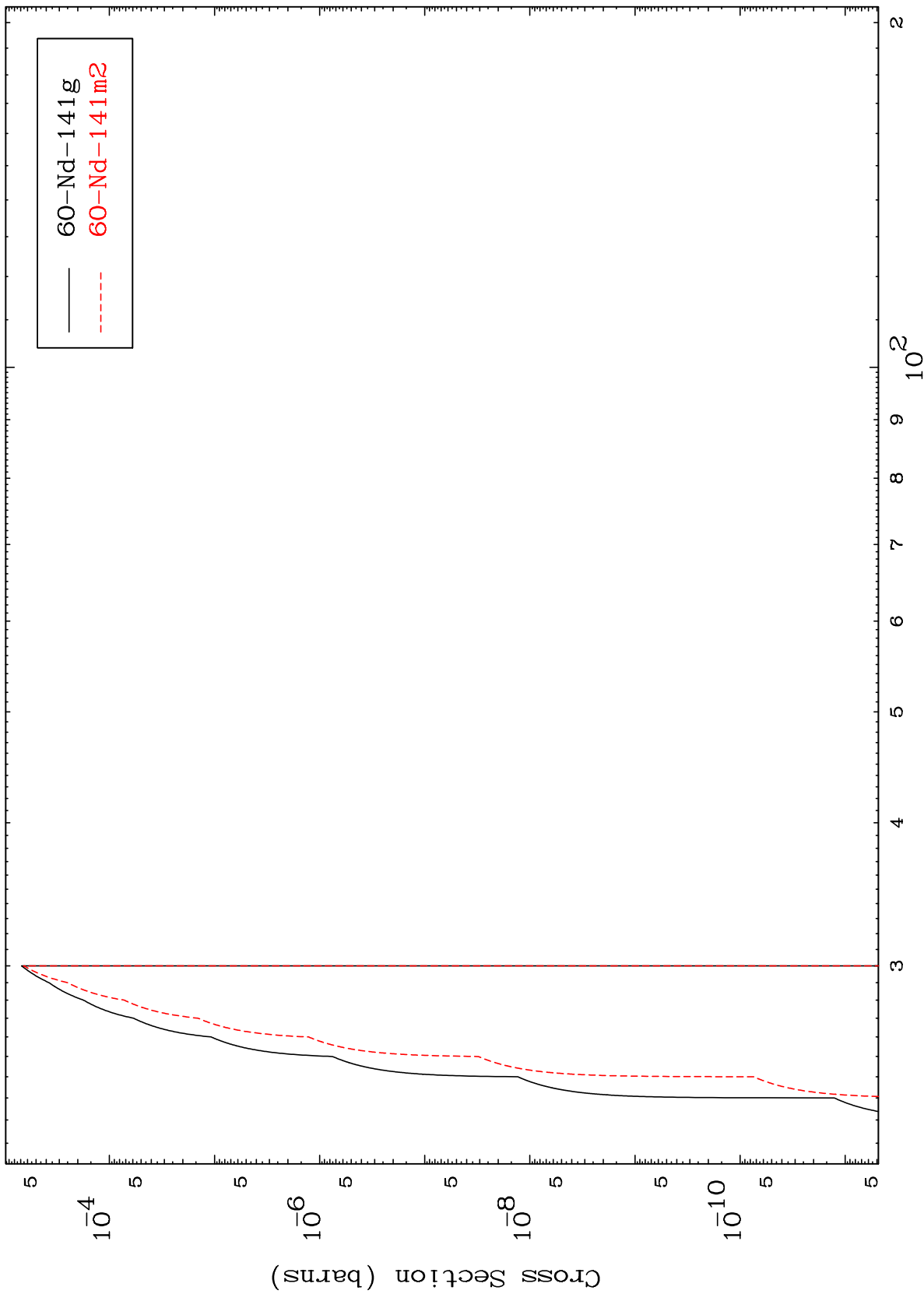
105

Incident Energy (MeV)

61-Pm-144



Radionuclide Production Cross Section

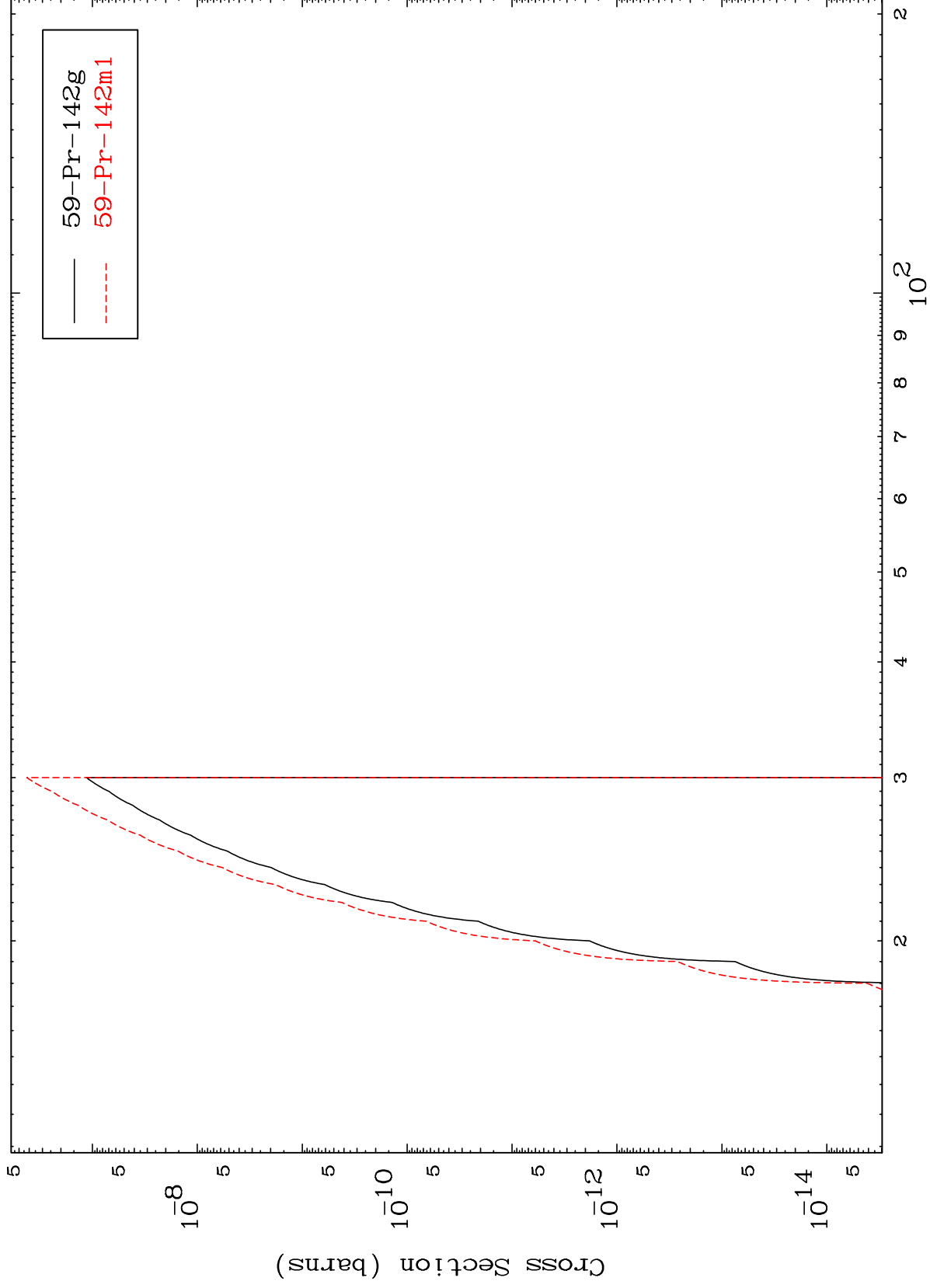


MAT 6140

(n,2n) p

61-Pm-144

Radionuclide Production Cross Section



108

Incident Energy (MeV)

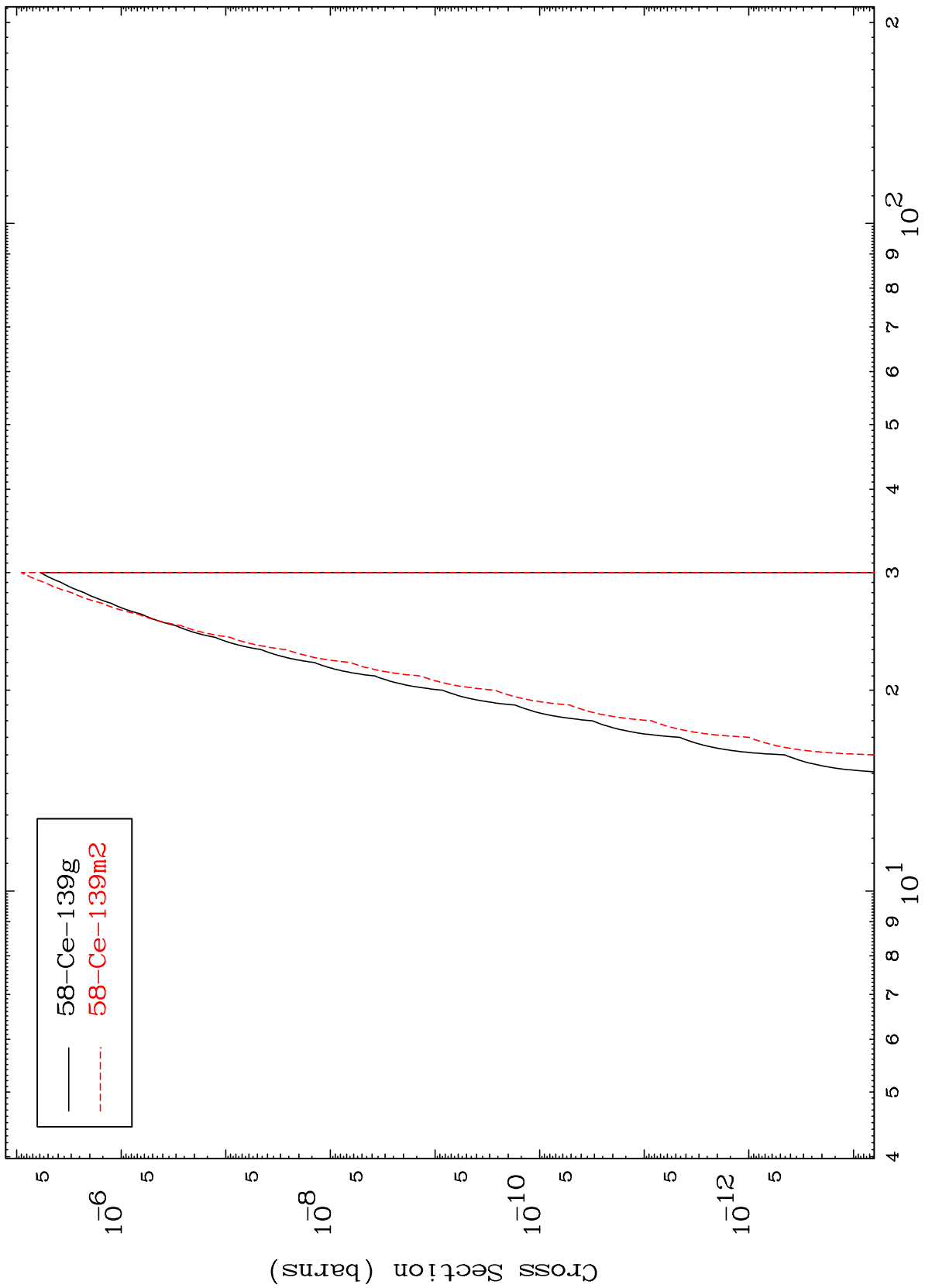
61-Pm-144

MAT 6140

(n,n') p α

61-Pm-144

Radionuclide Production Cross Section



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

109

Incident Energy (MeV)

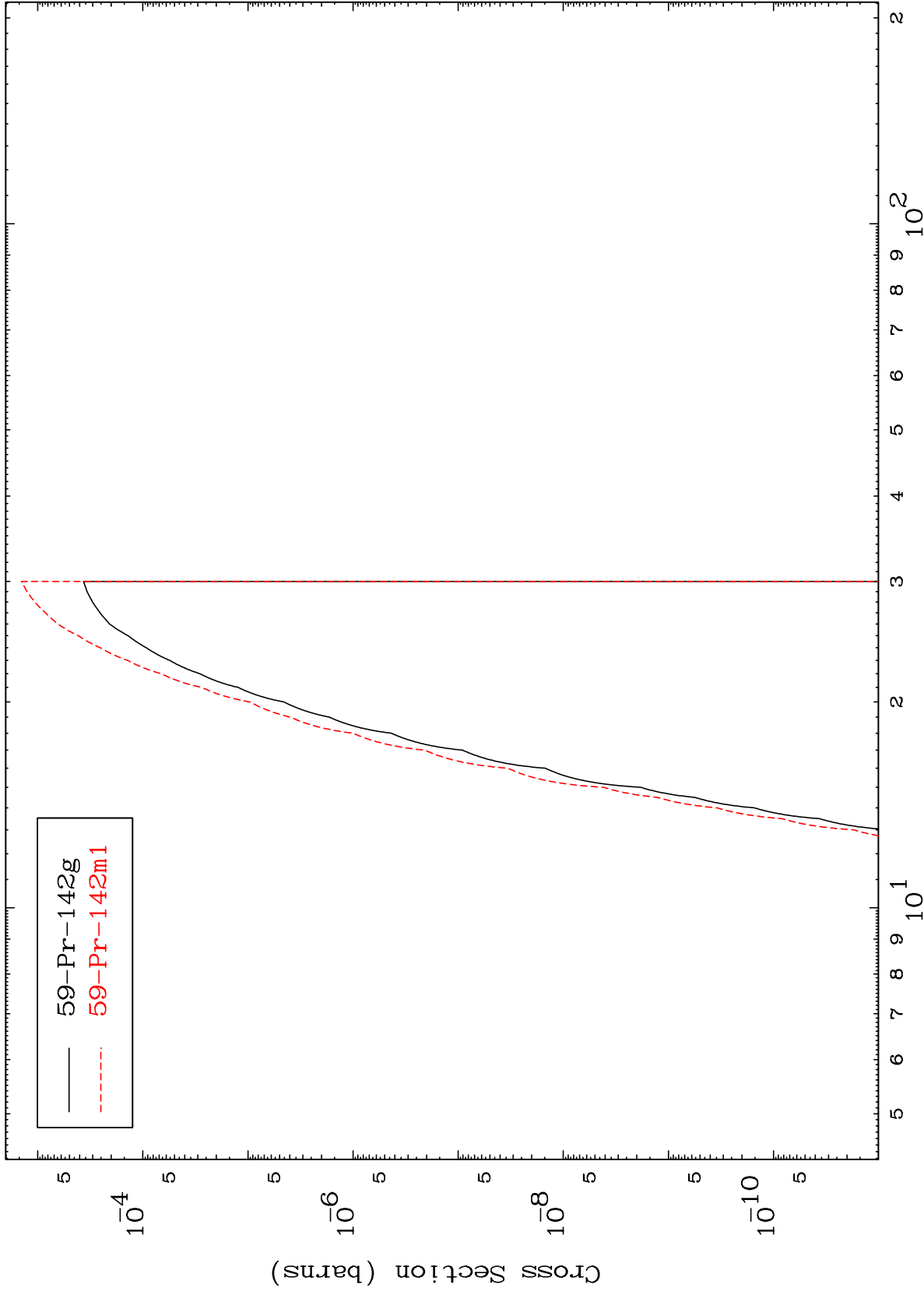
61-Pm-144

MAT 6140

(n,He-3)

61-Pm-144

Radionuclide Production Cross Section



59-Pr-142g
59-Pr-142m1

110

Incident Energy (MeV)

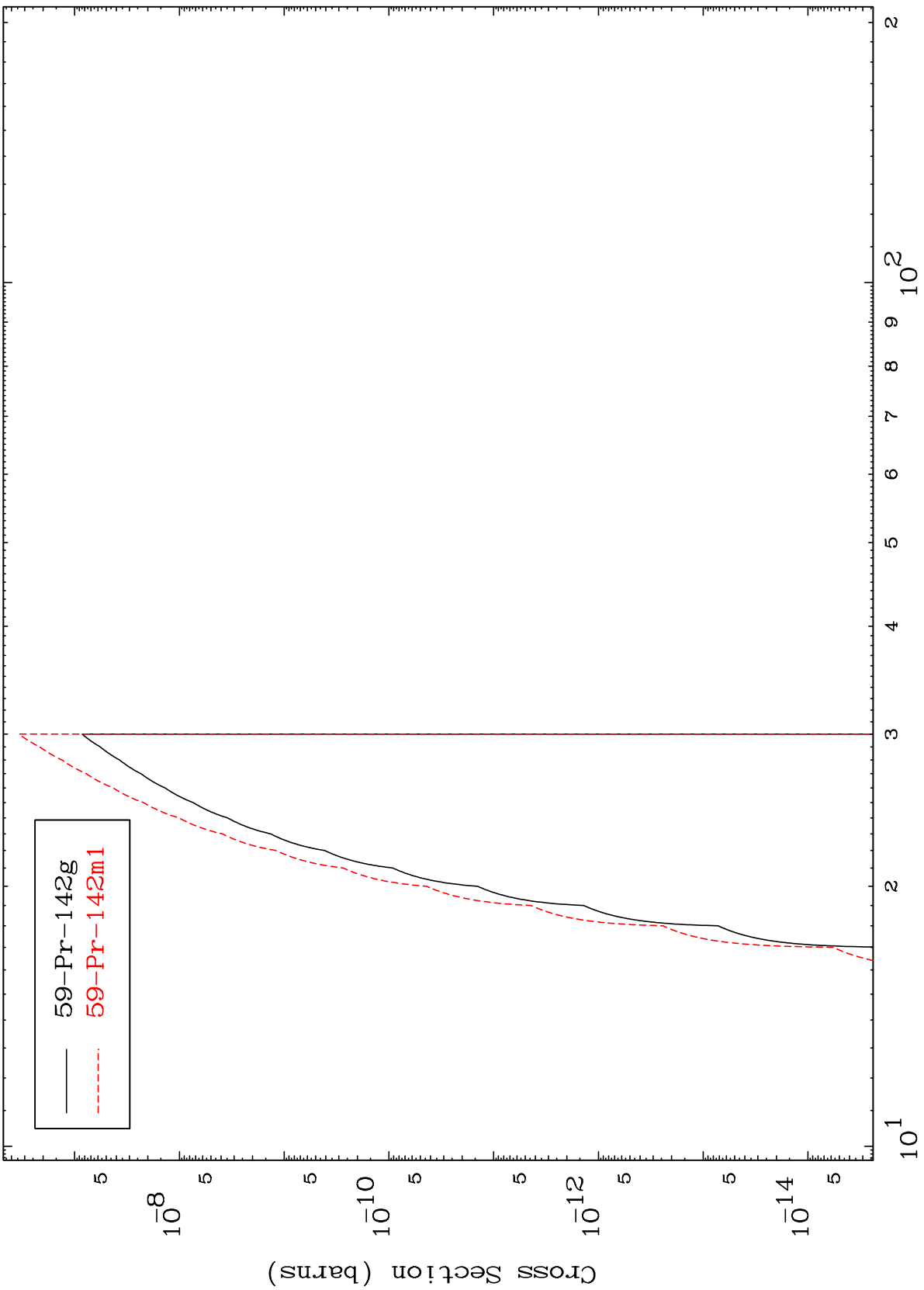
61-Pm-144

MAT 6140

(n,p) d

61-Pm-144

Radionuclide Production Cross Section



111

Incident Energy (MeV)

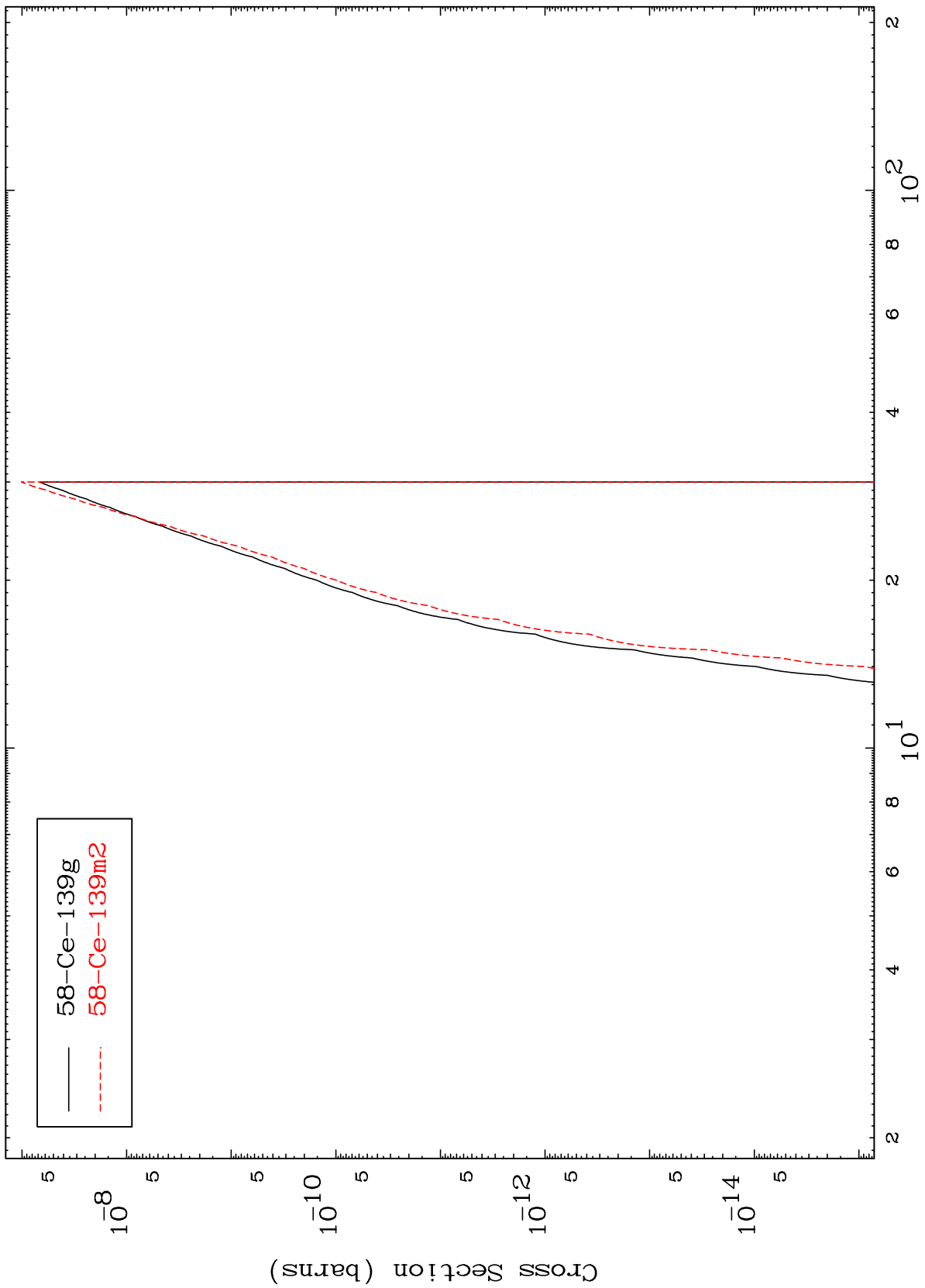
61-Pm-144

MAT 6140

(n,d) α

61-Pm-144

Radionuclide Production Cross Section



112

Incident Energy (MeV)

61-Pm-144