

Program EVALPLOT
(Version 2017-1)

by

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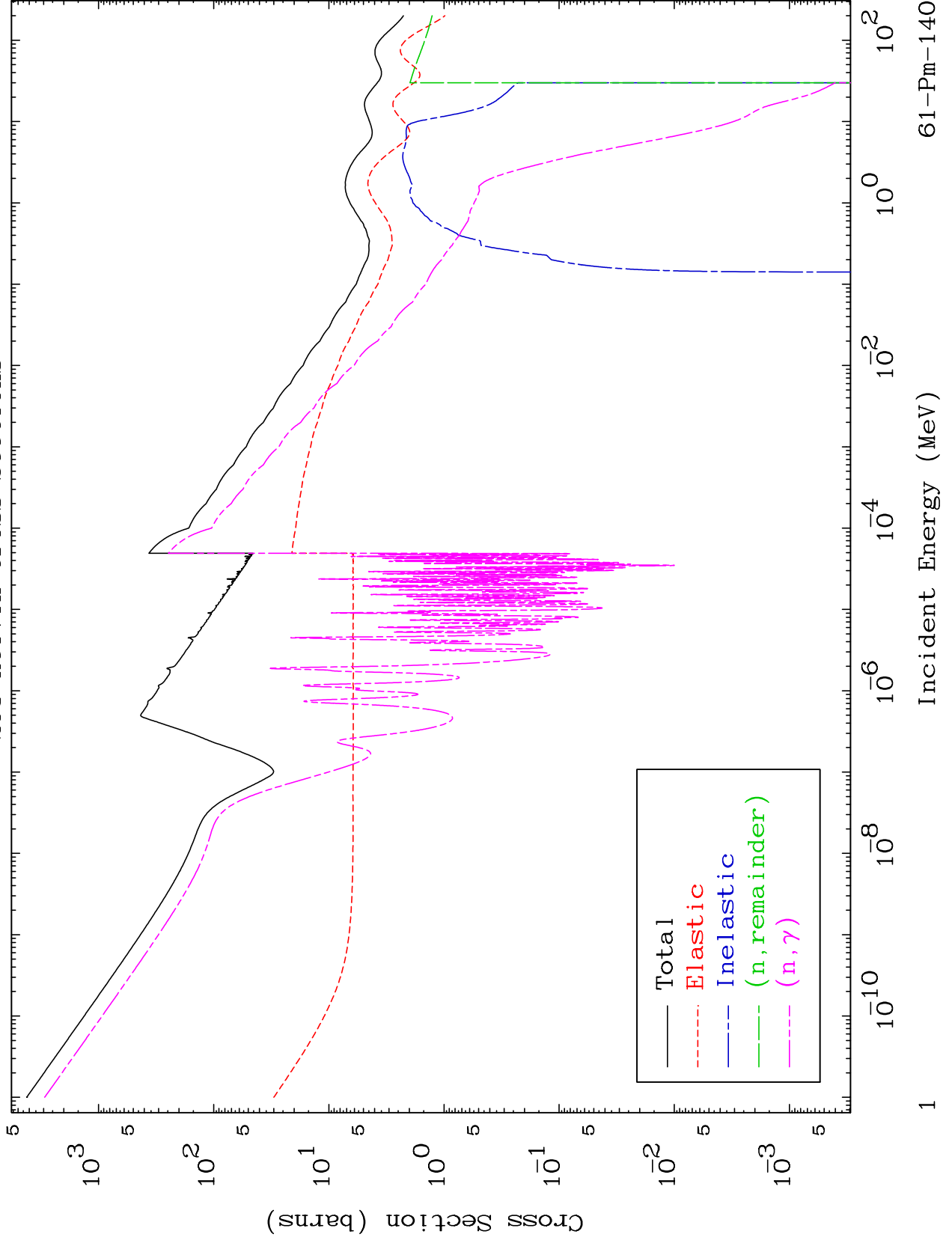
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Press Mouse Button to Start

MAT 6128

Major
293 Kelvin Cross Sections

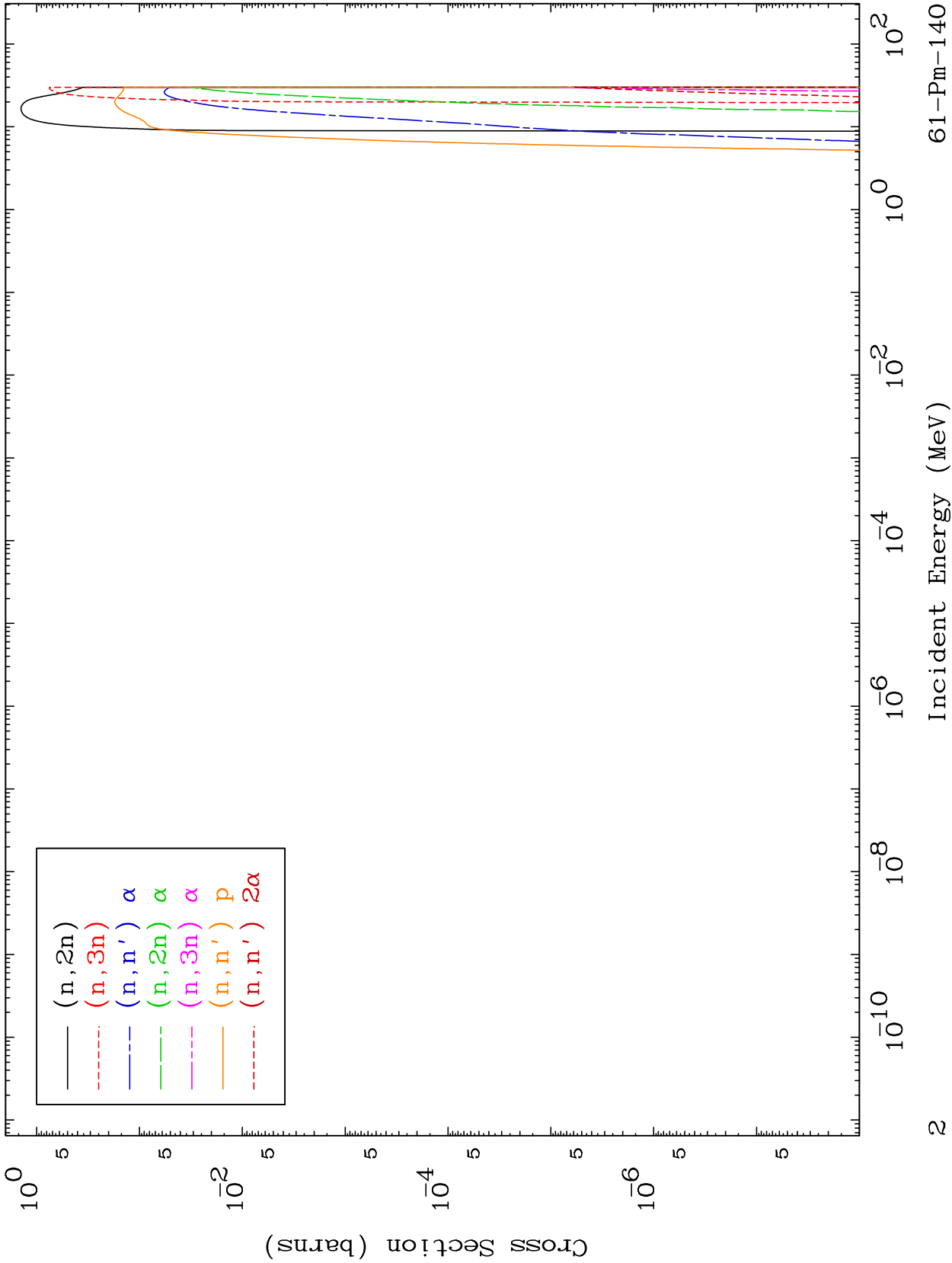
61-Pm-140

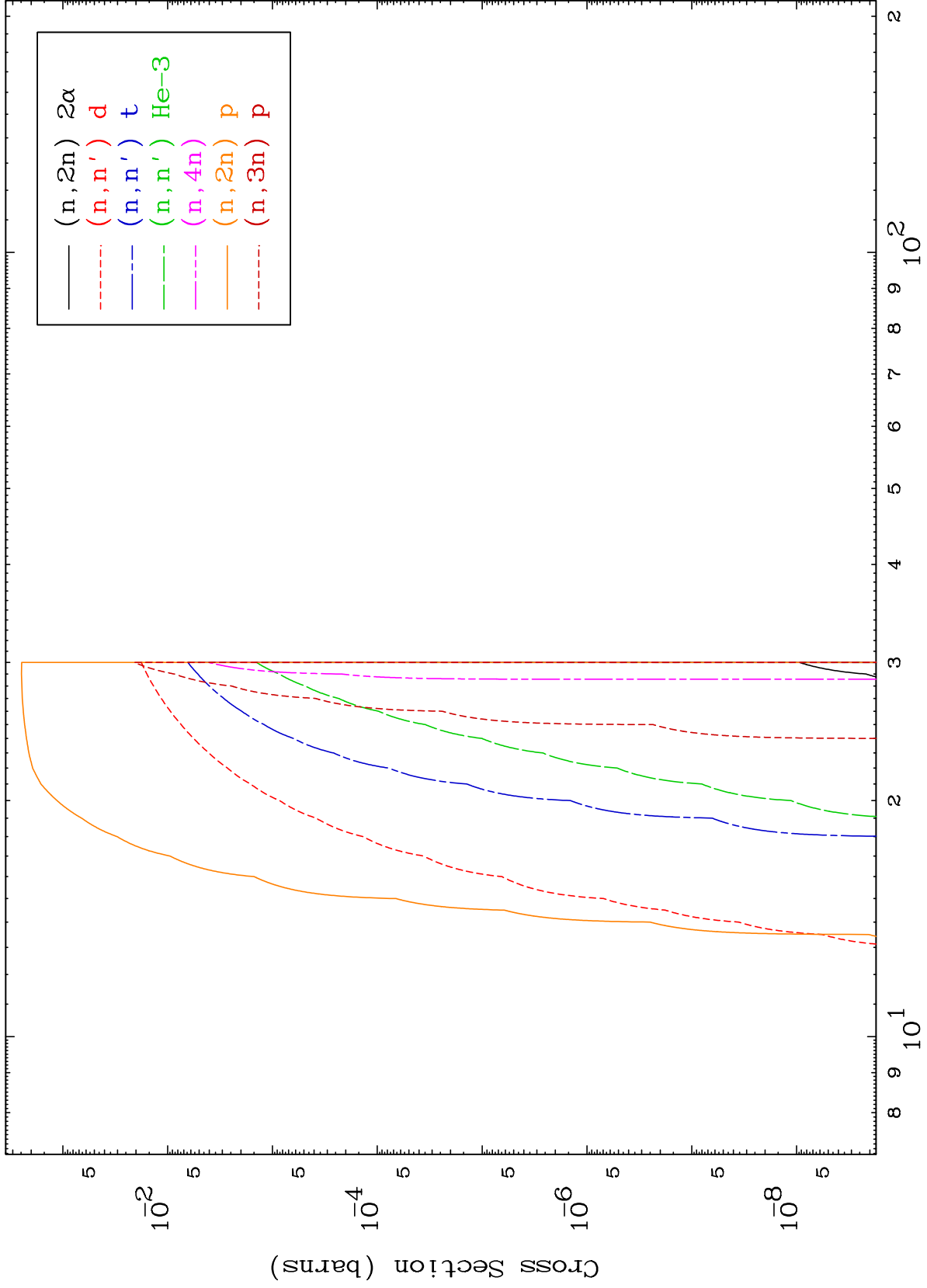


MAT 6128

Neutron Production
293 Kelvin Cross Sections

61-Pm-140

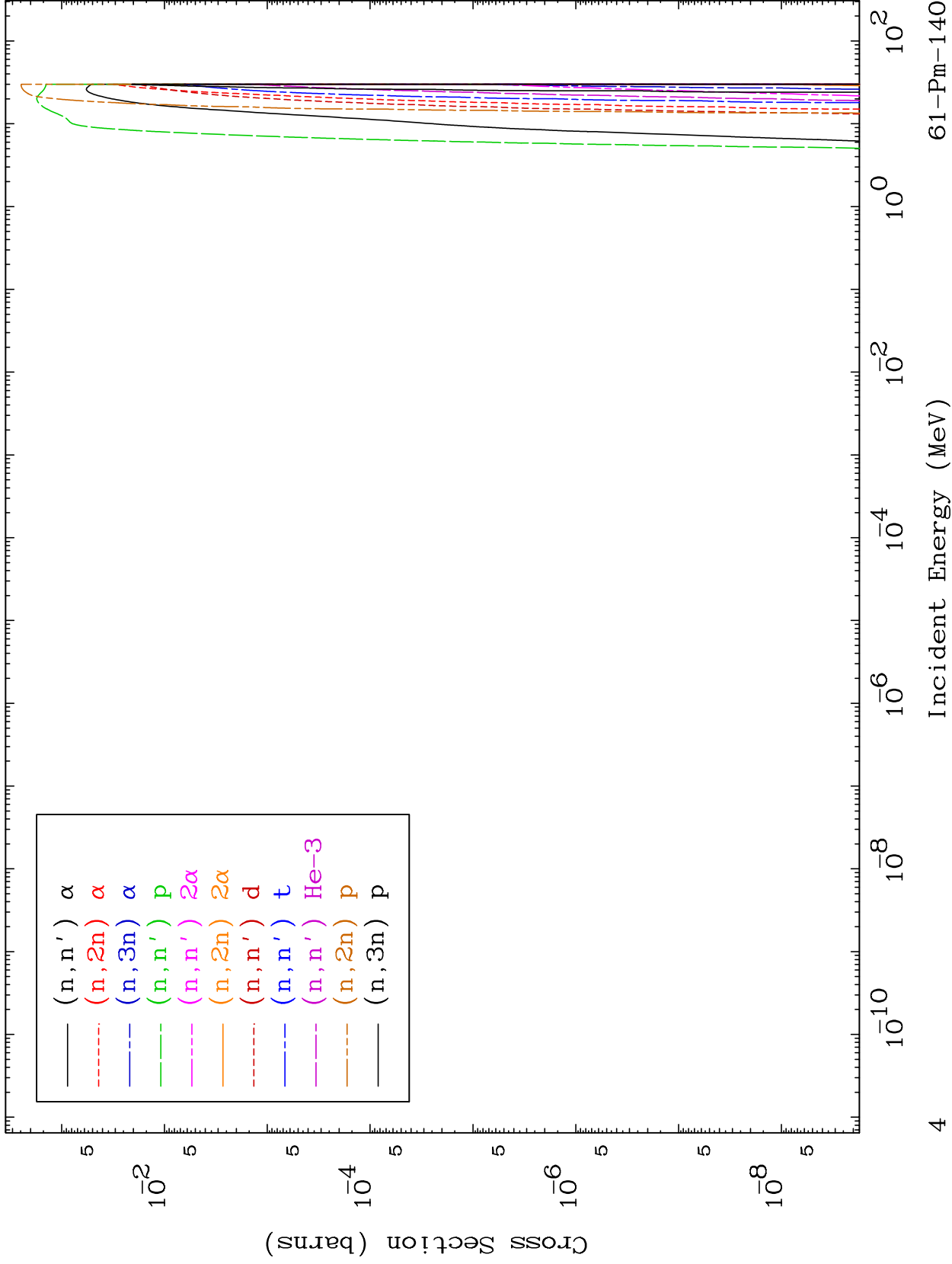




MAT 6128

Charged Particle
293 Kelvin Cross Sections

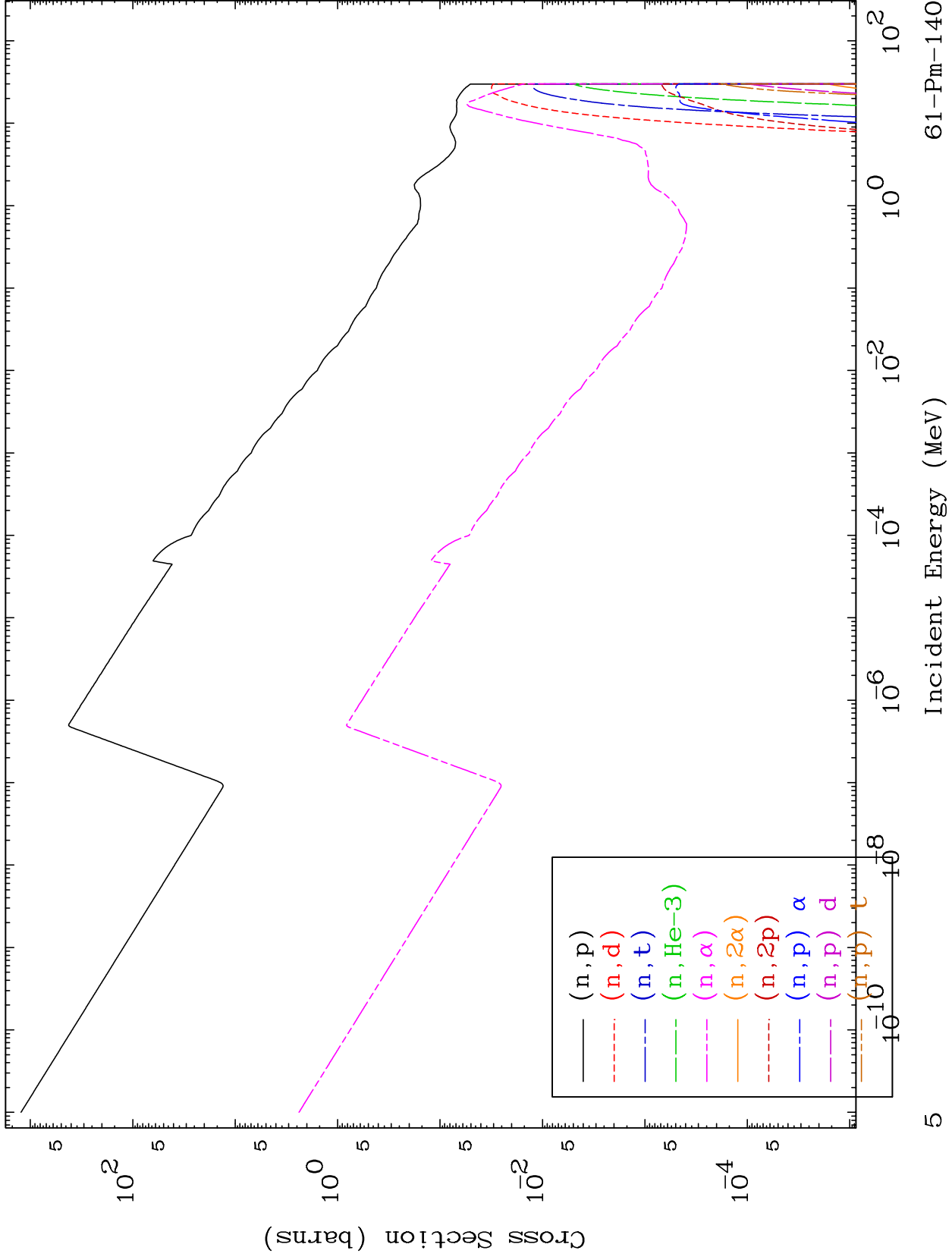
61-Pm-140



MAT 6128

Charged Particle
293 Kelvin Cross Sections

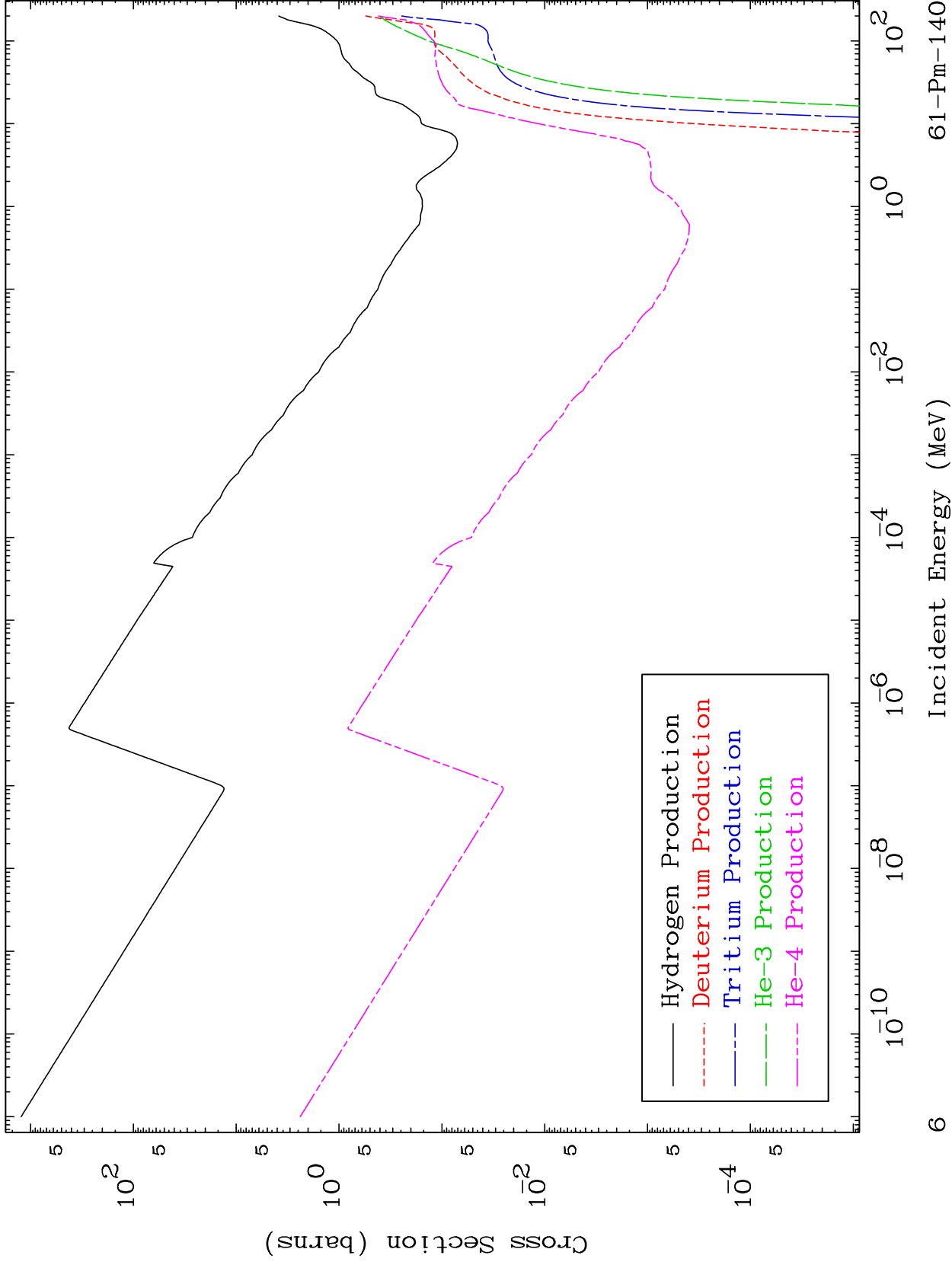
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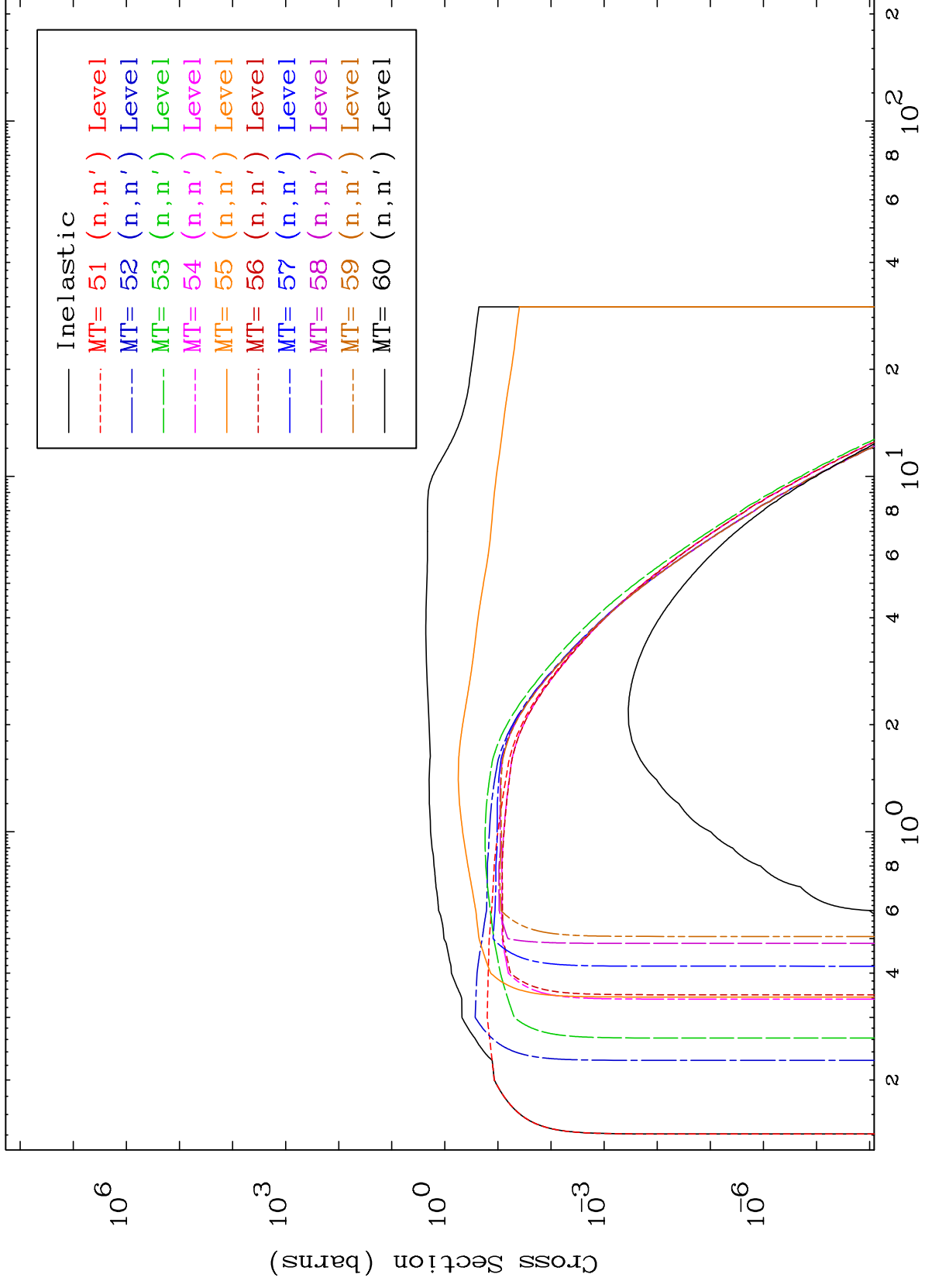
MAT 6128

Particle Production
293 Kelvin Cross Sections

61-Pm-140



293 Kelvin Cross Sections

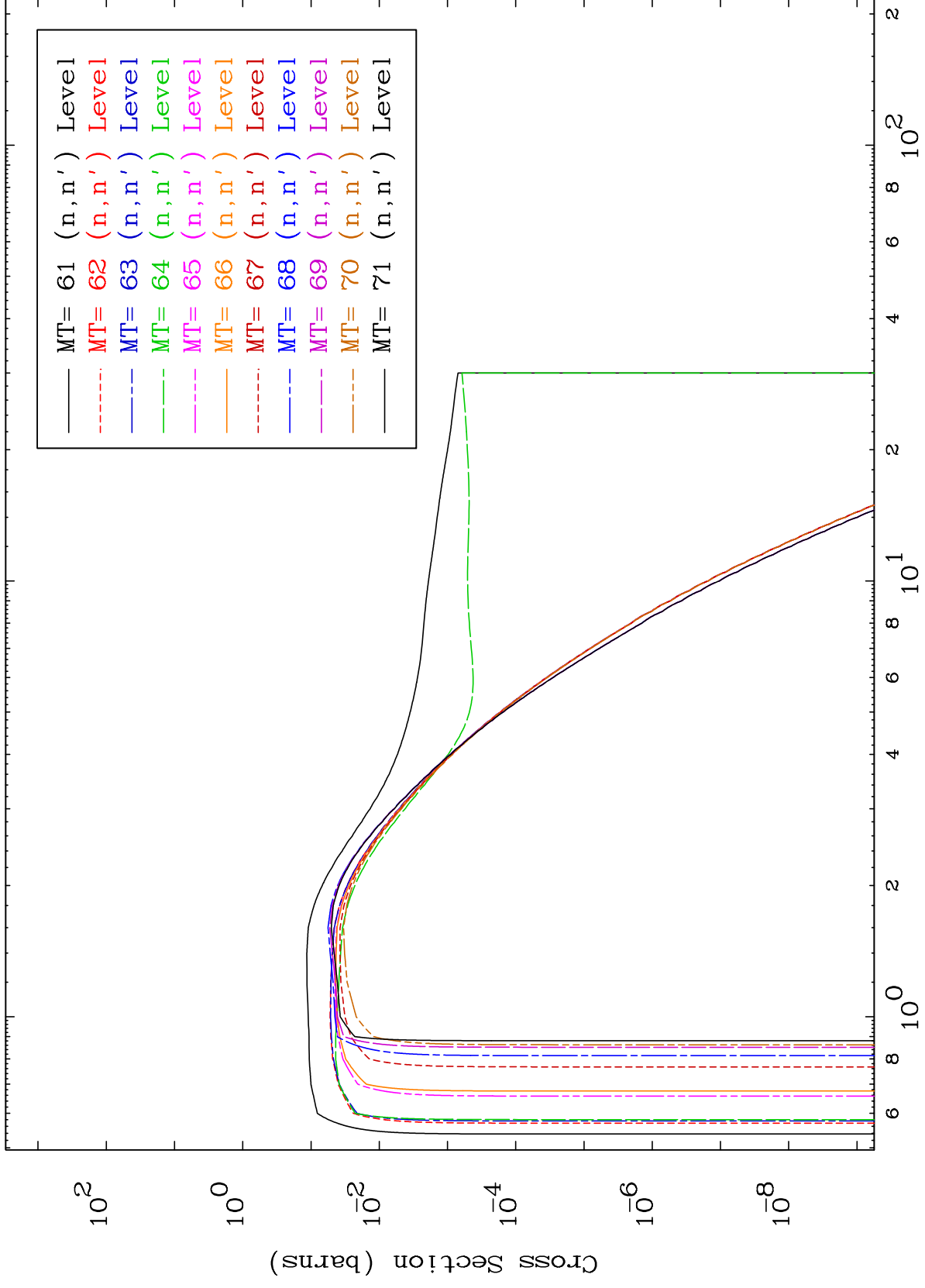


MAT 6128

(n,n') Level

61-Pm-140

293 Kelvin Cross Sections

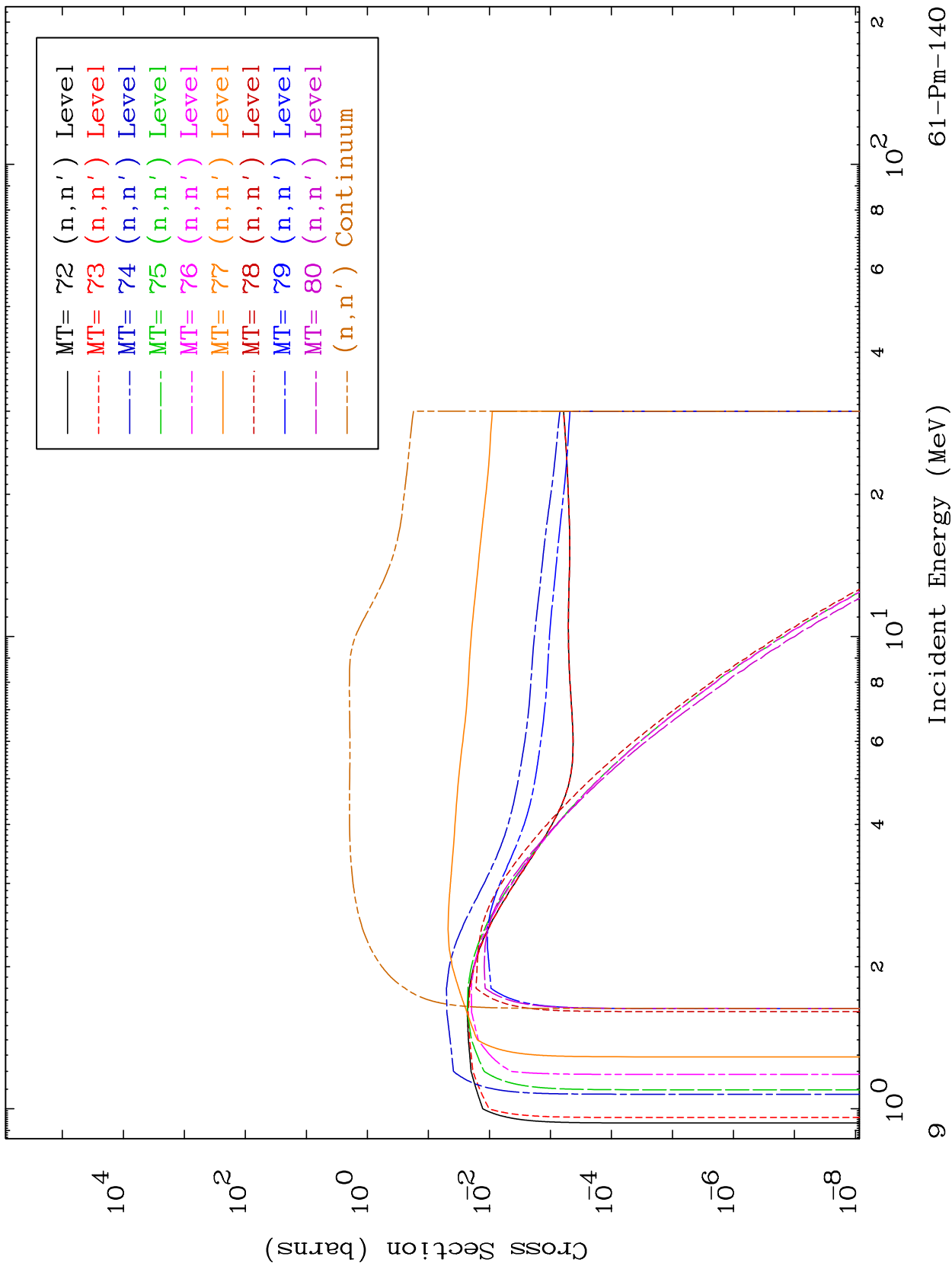


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Incident Energy (MeV)

61-Pm-140

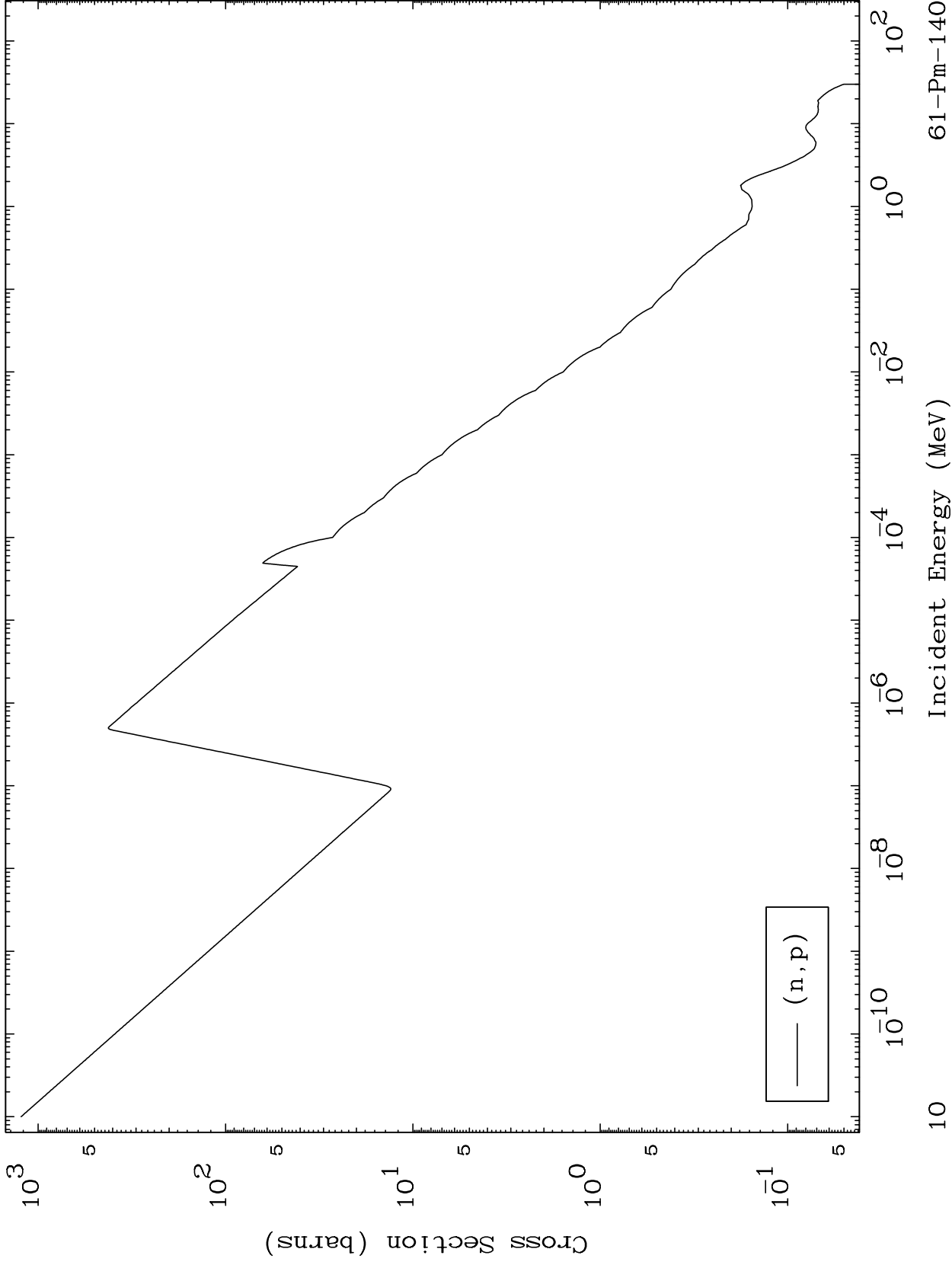
293 Kelvin Cross Sections



MAT 6128

(n,p) Levels
293 Kelvin Cross Sections

61-Pm-140



(n,p)

10

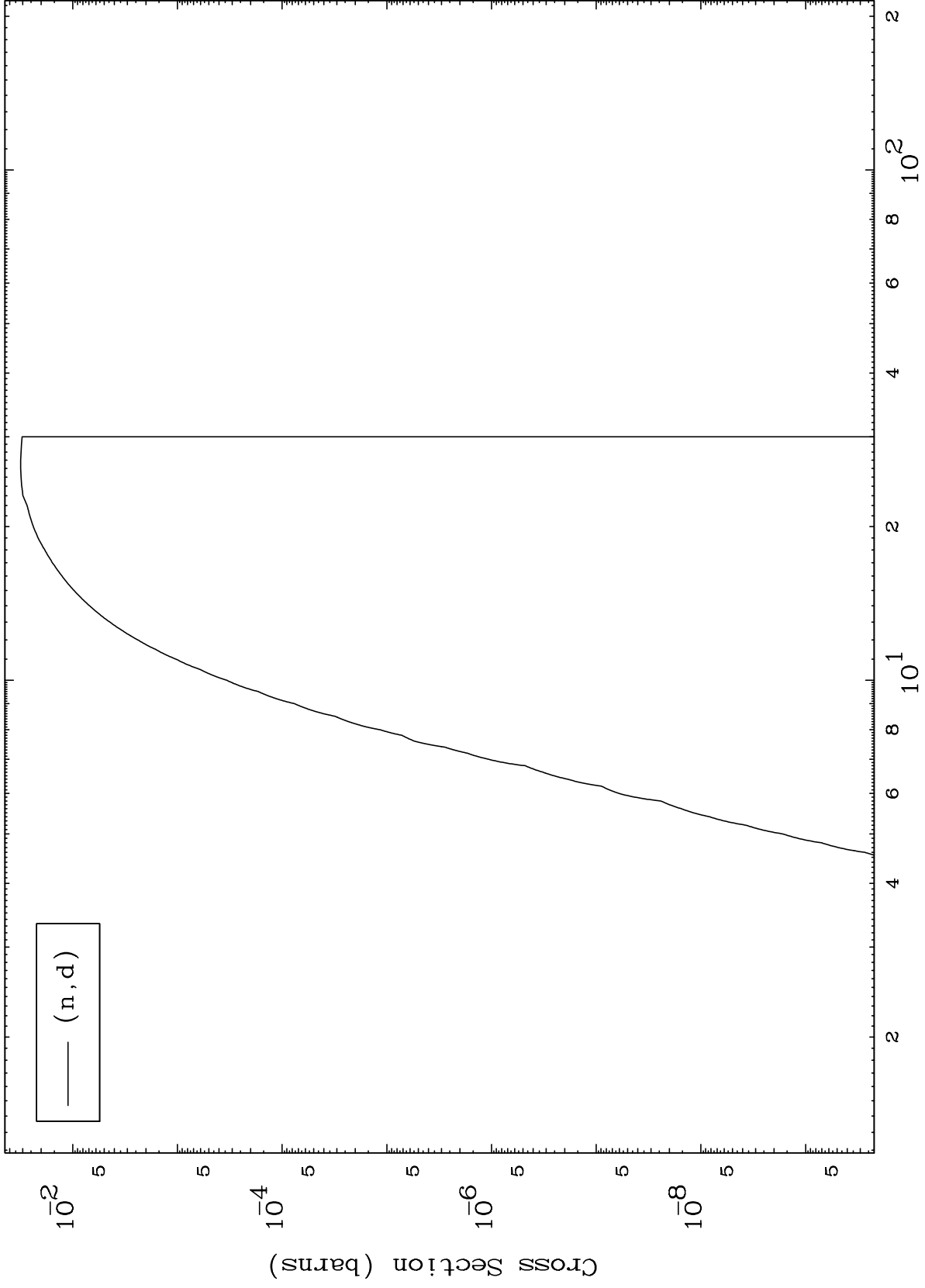
Incident Energy (MeV)

61-Pm-140

MAT 6128

(n,d) Levels
293 Kelvin Cross Sections

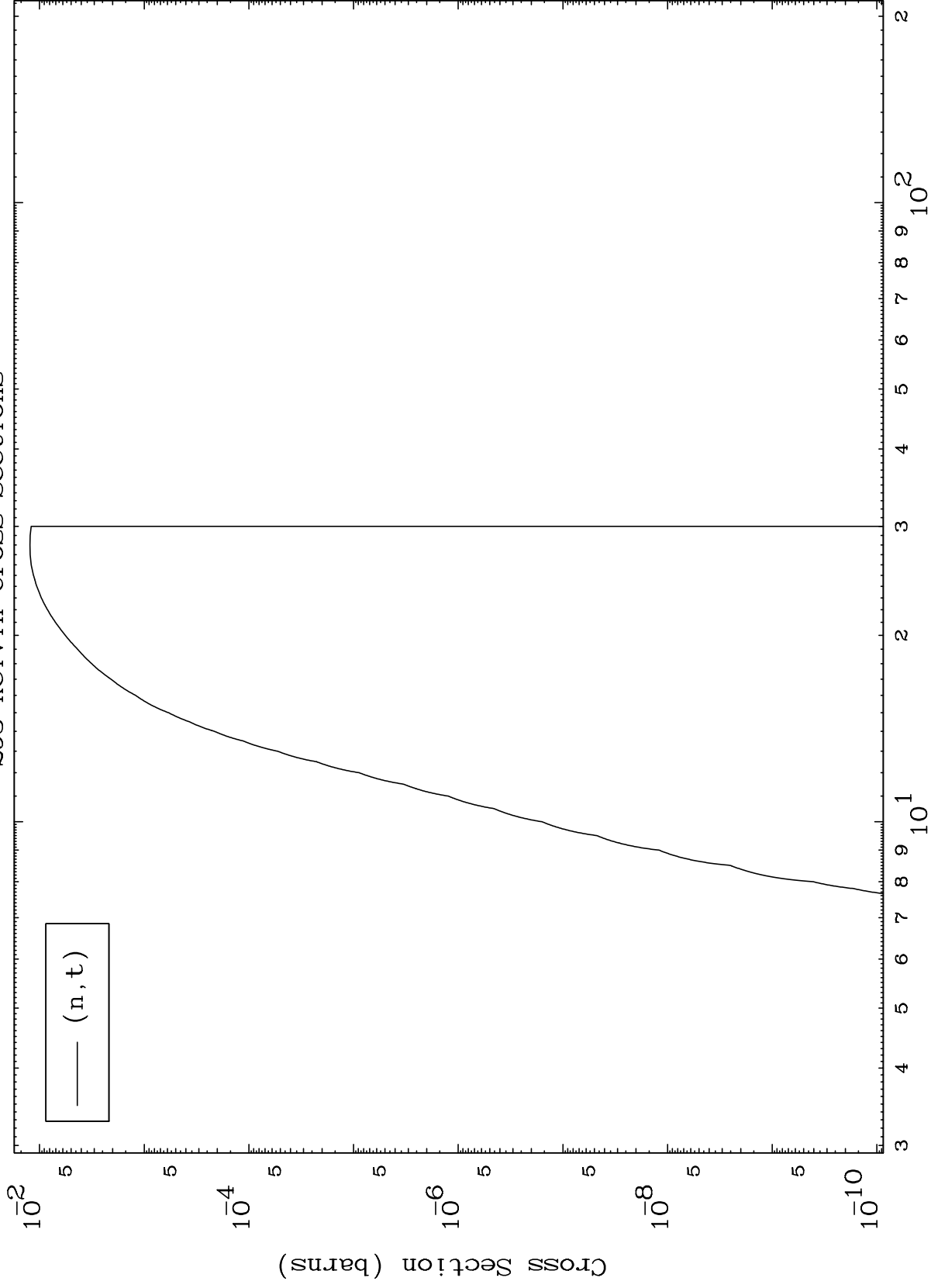
61-Pm-140



MAT 6128

(n,t) Levels
293 Kelvin Cross Sections

61-Pm-140



12

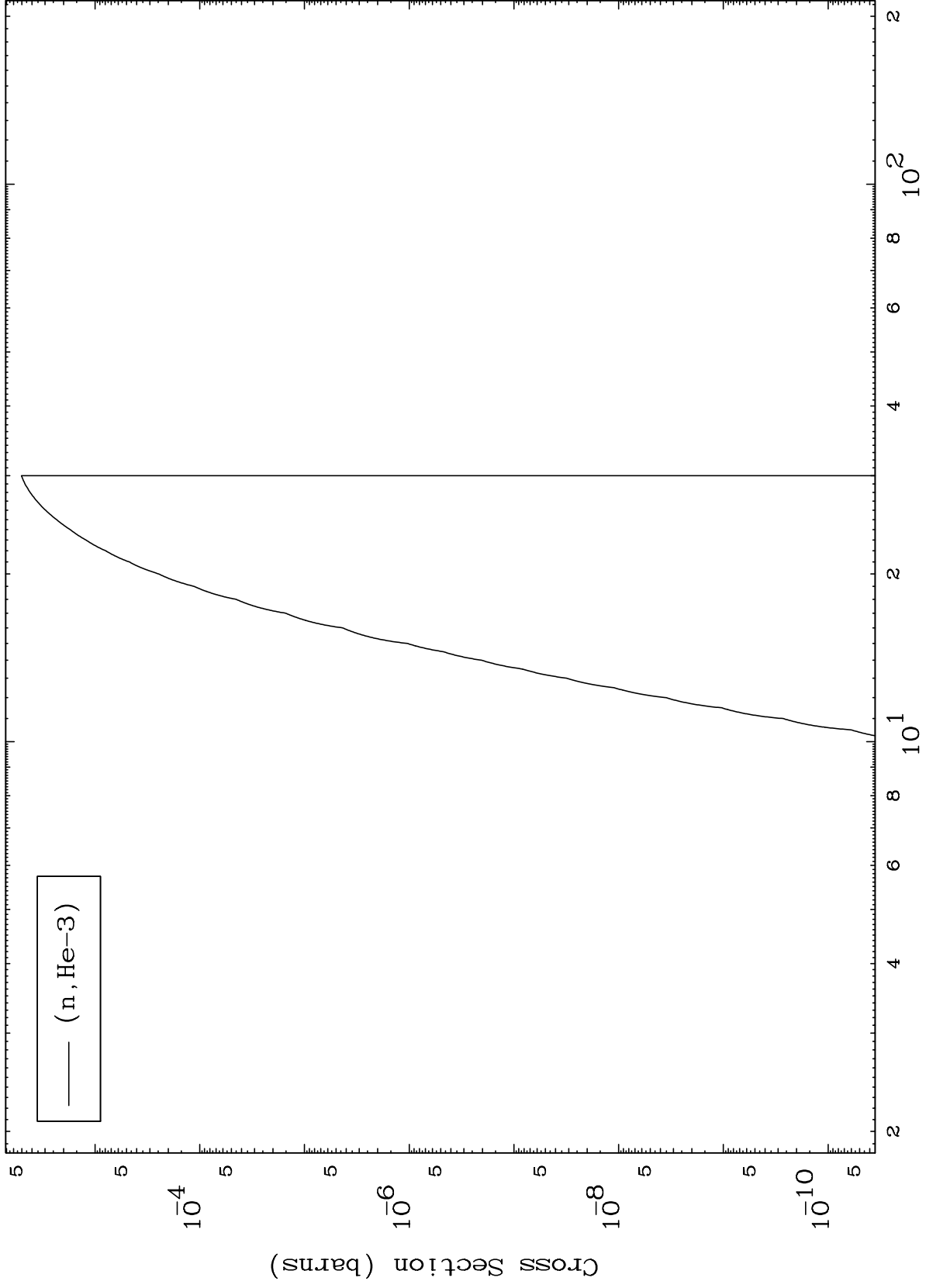
Incident Energy (MeV)

61-Pm-140

MAT 6128

(n,He3) Levels
293 Kelvin Cross Sections

61-Pm-140



13

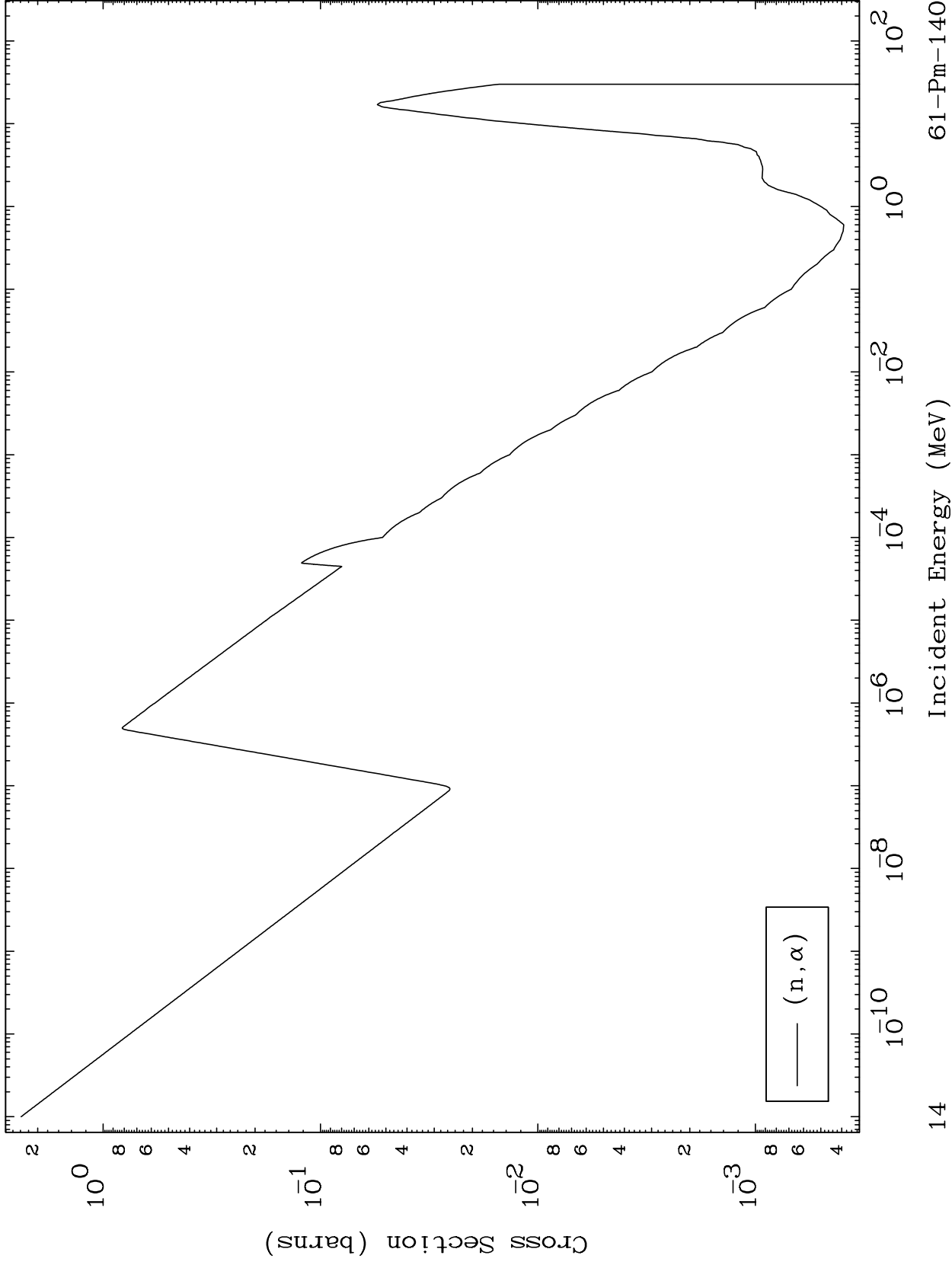
Incident Energy (MeV)

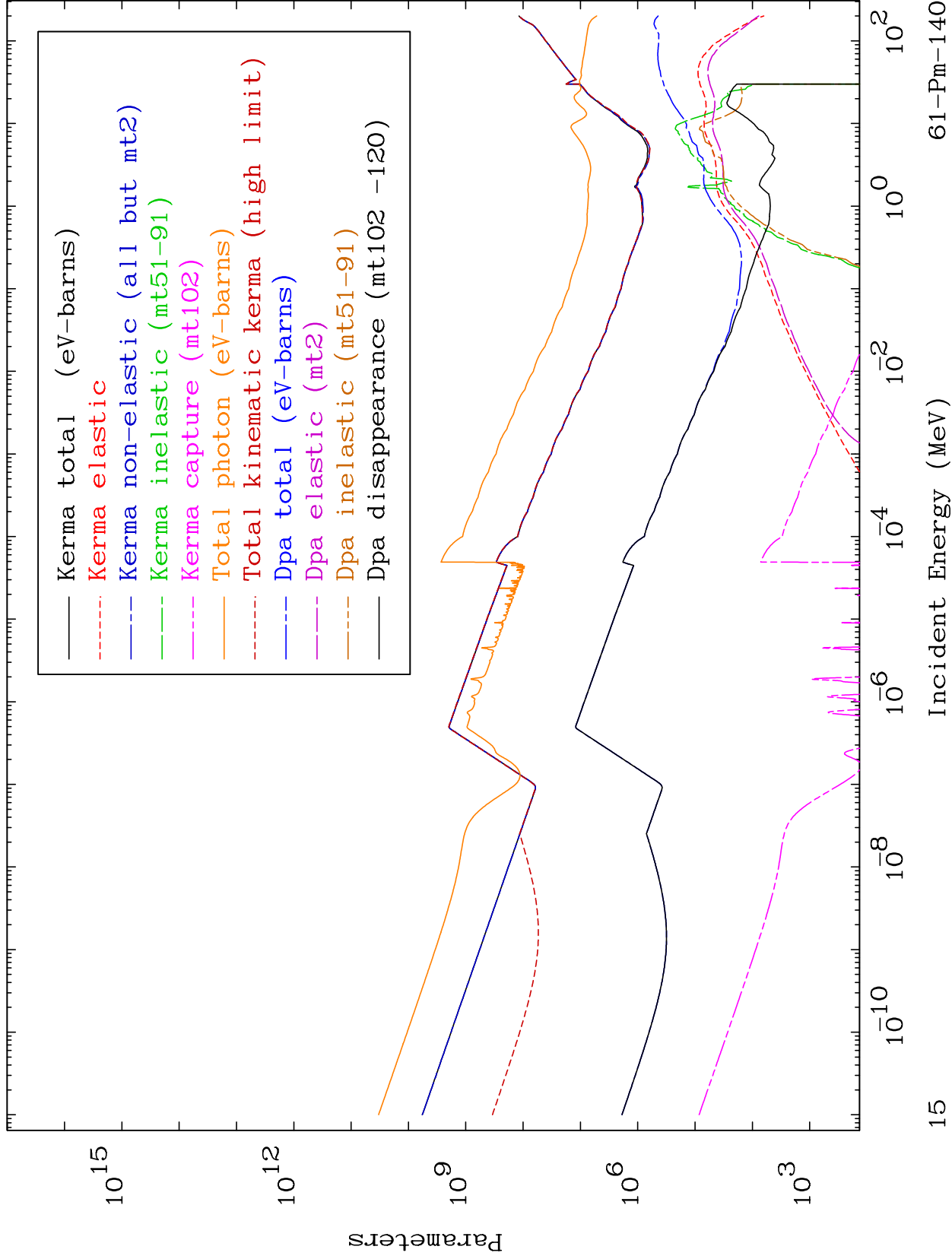
61-Pm-140

MAT 6128

(n,α) Levels
293 Kelvin Cross Sections

61-Pm-140

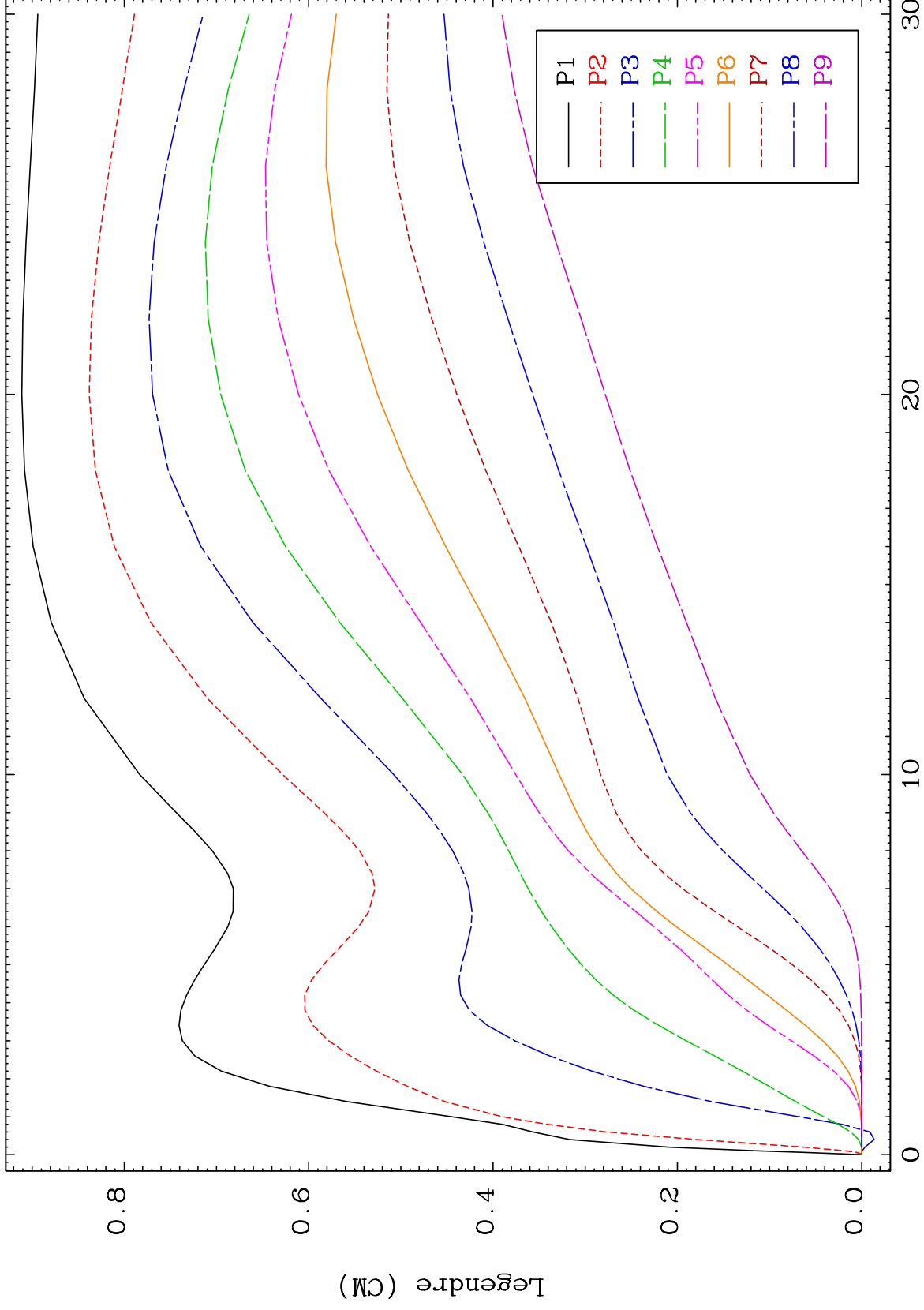




MAT 6128

Elastic Legendre Coefficients

61-Pm-140



16

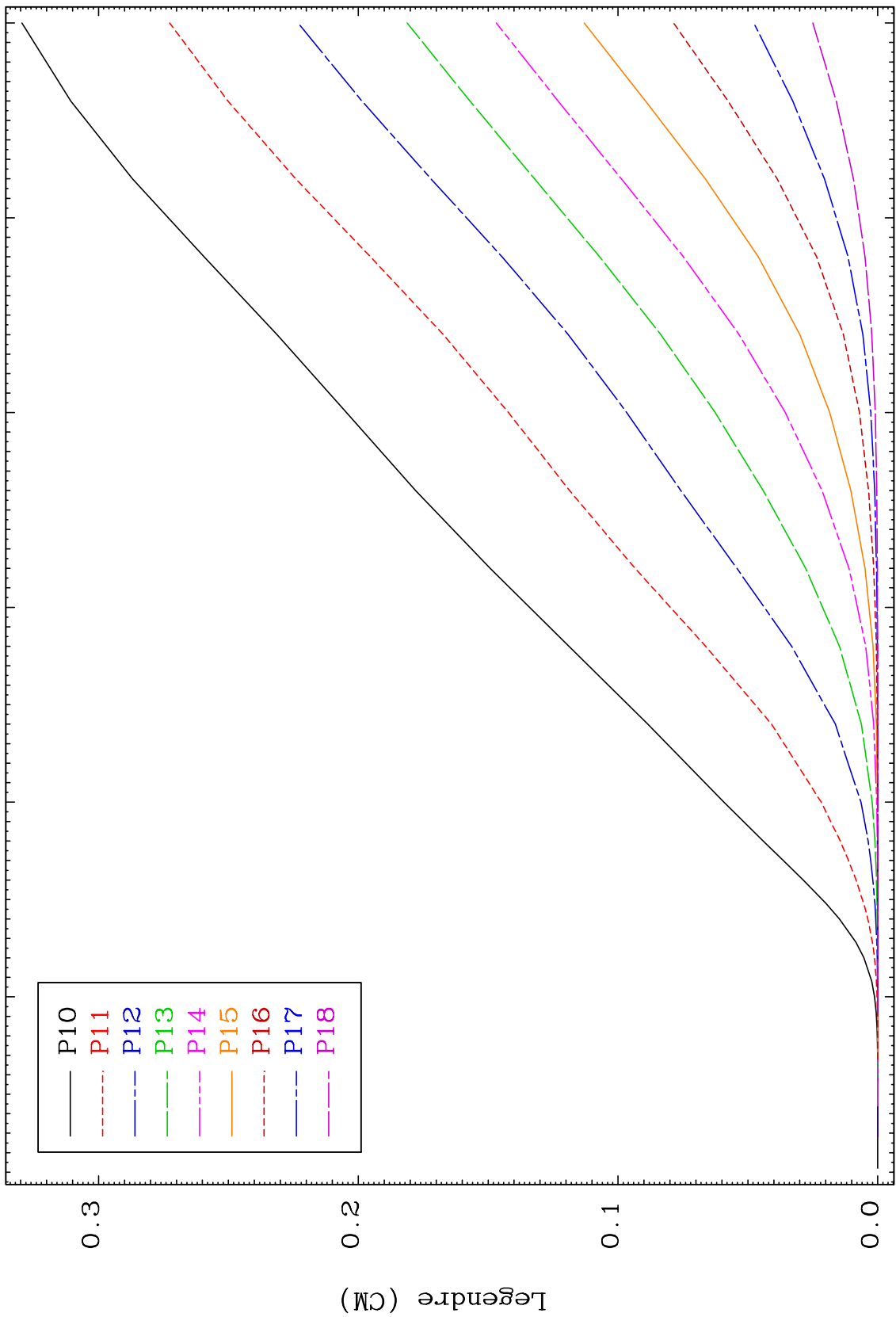
Incident Energy (MeV)

61-Pm-140

MAT 6128

Elastic Legendre Coefficients

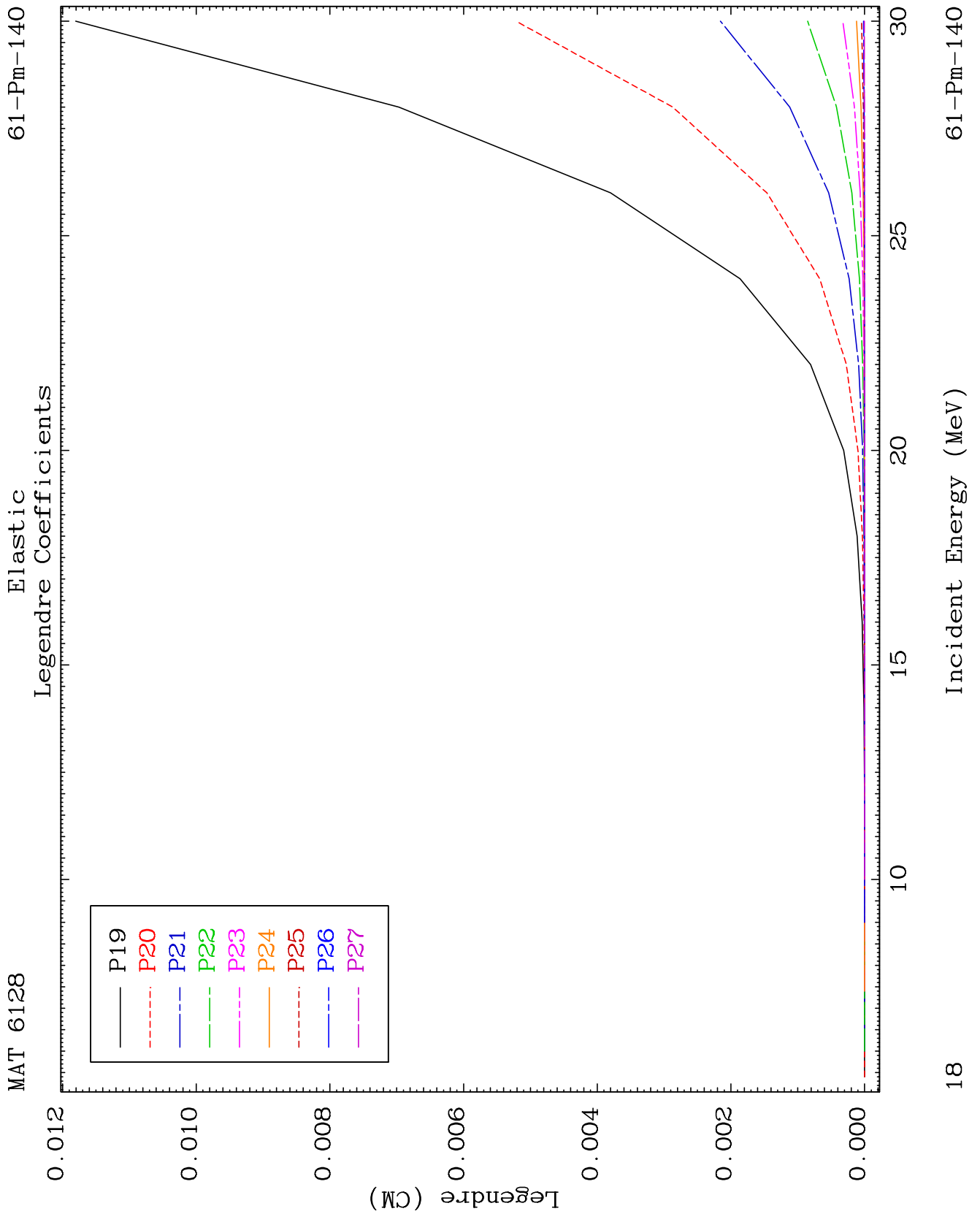
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17

61-Pm-140

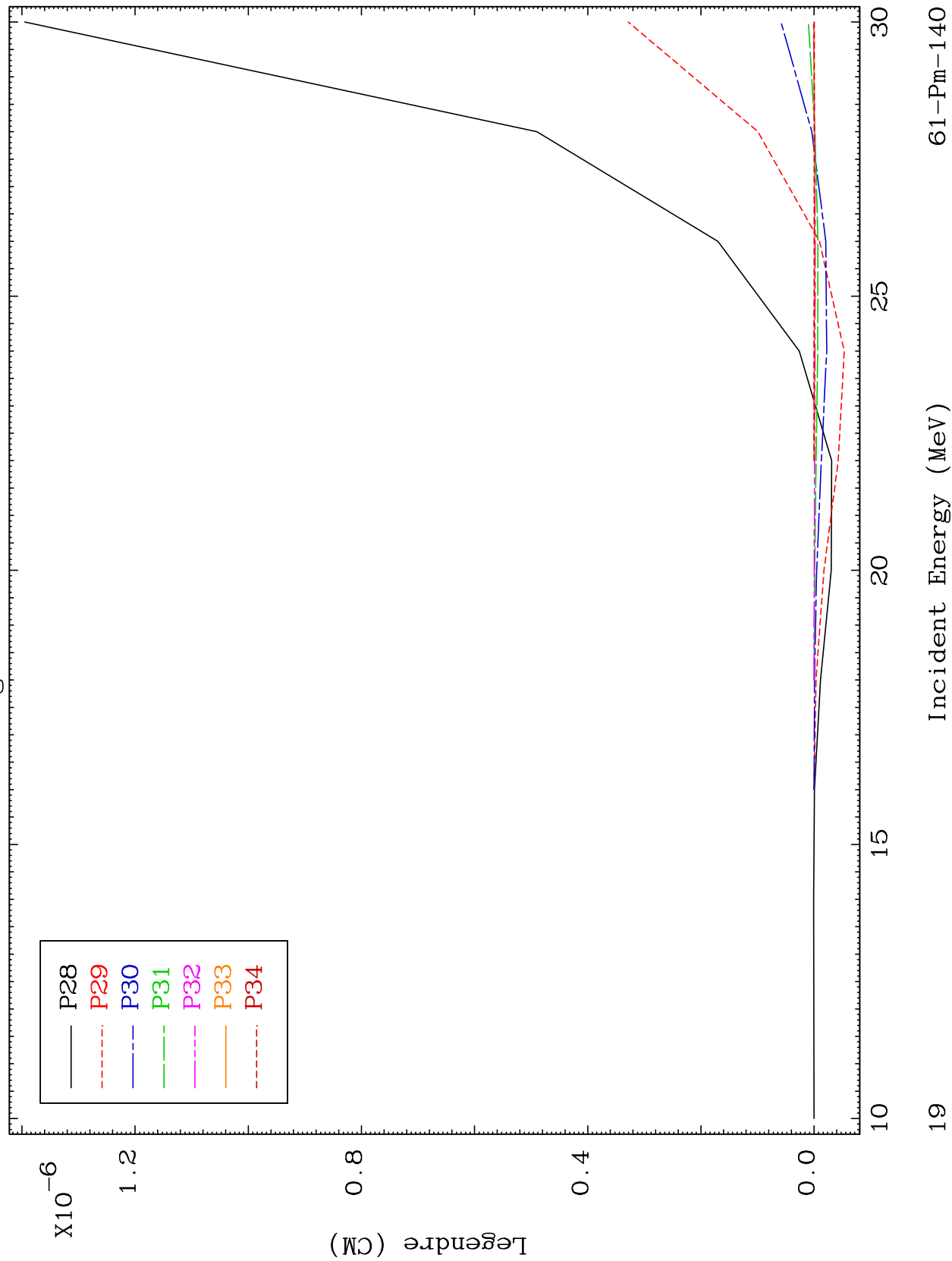
Incident Energy (MeV)



MAT 6128

Elastic
Legendre Coefficients

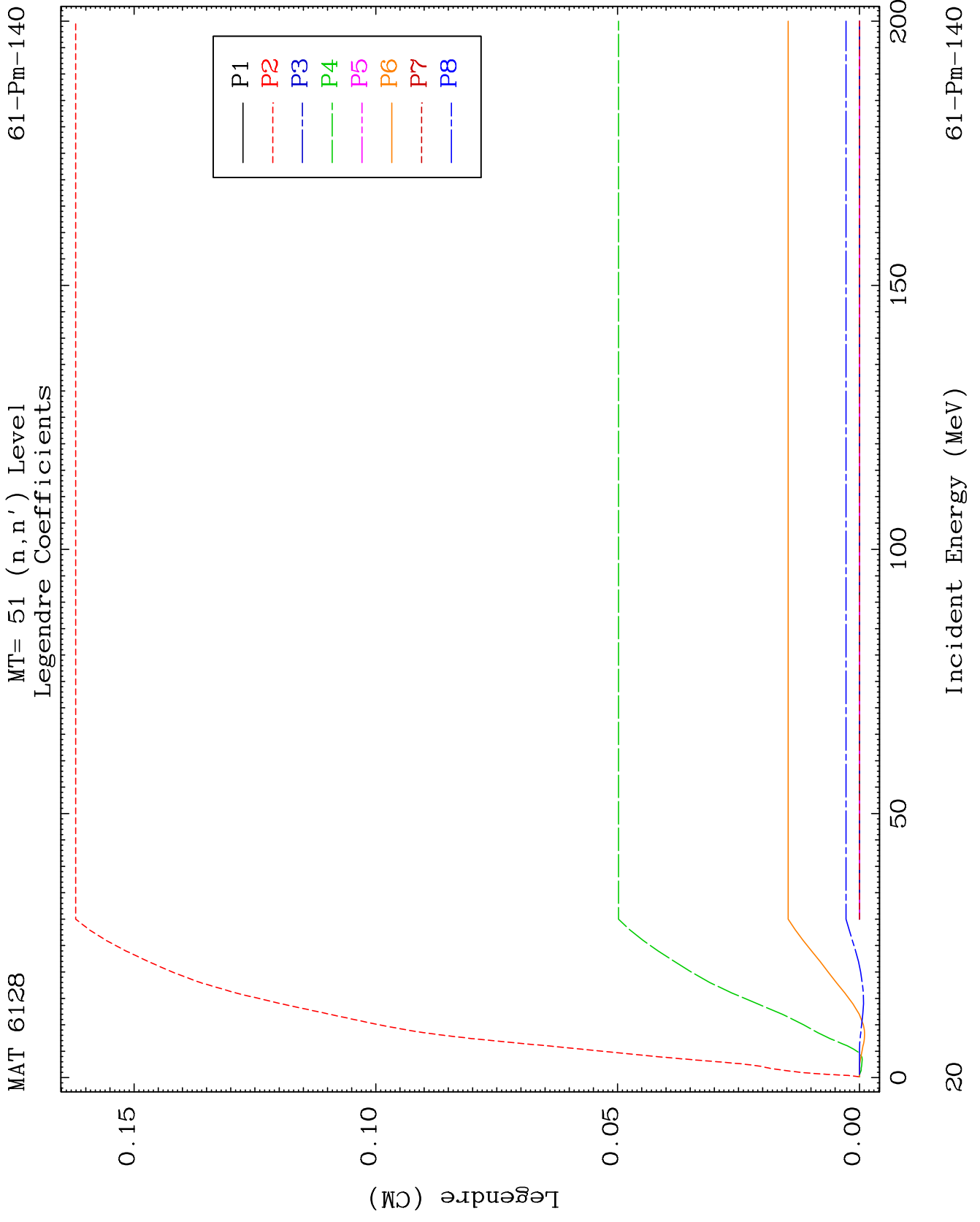
61-Pm-140



19

Incident Energy (MeV)

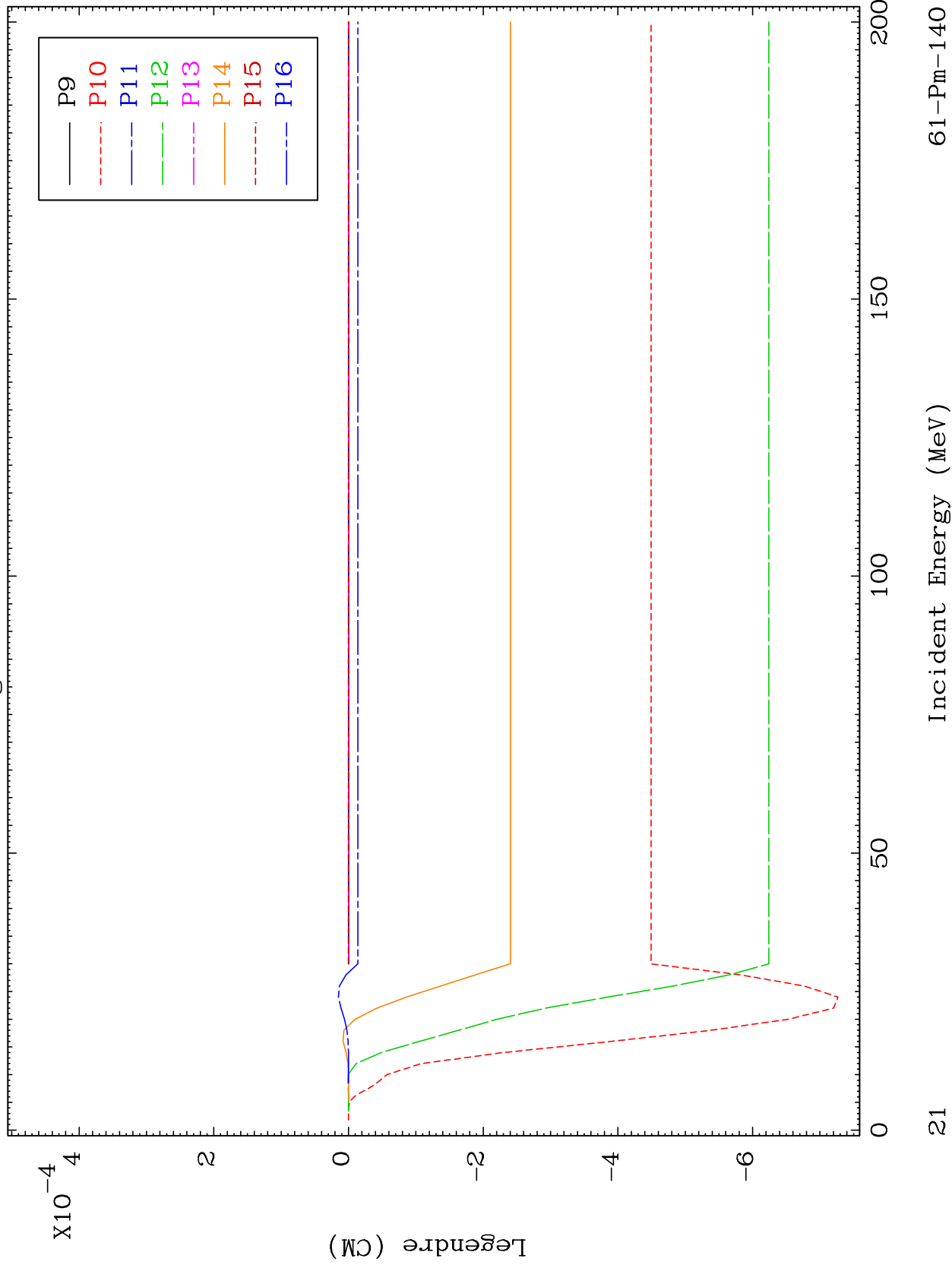
61-Pm-140



MAT 6128

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

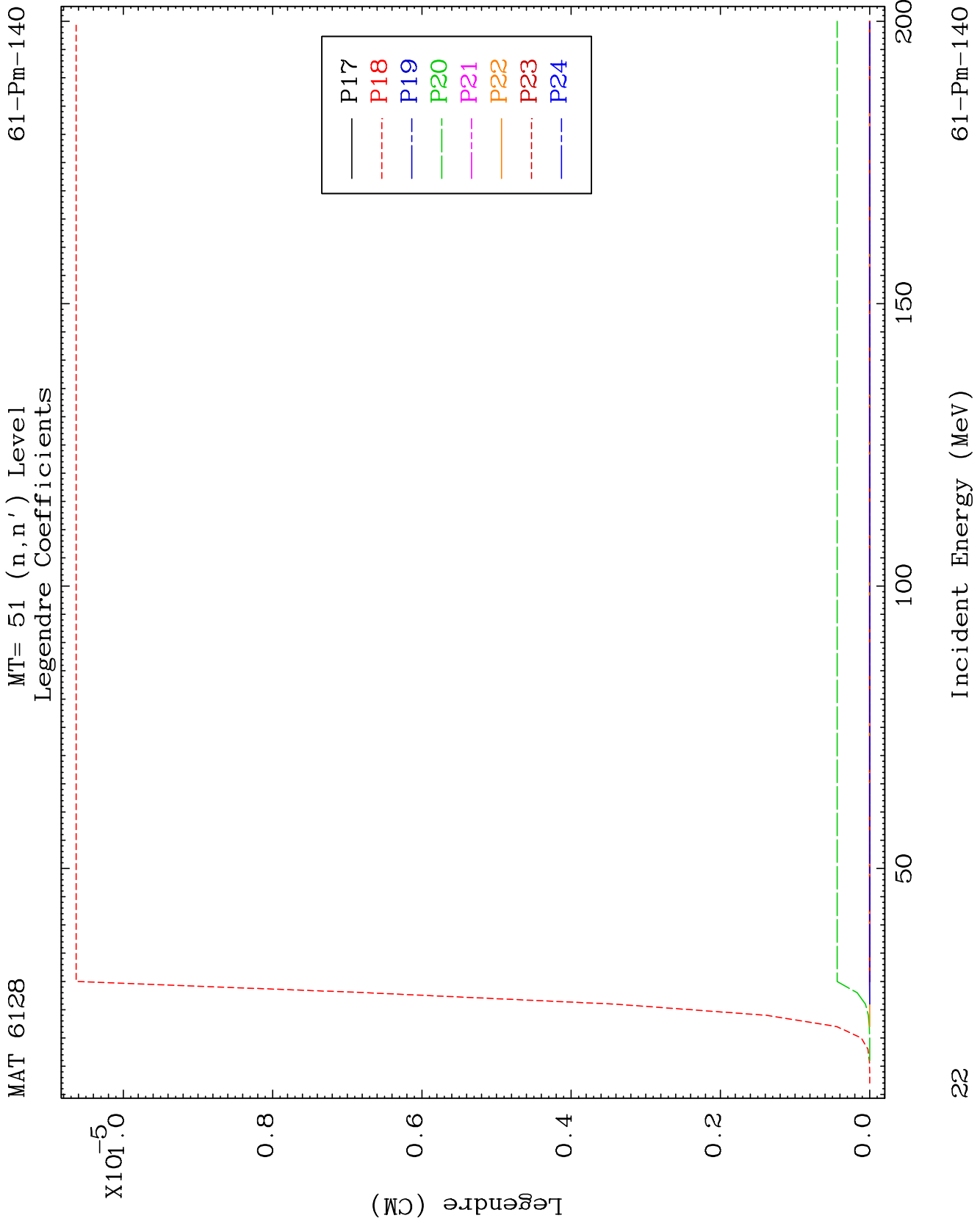
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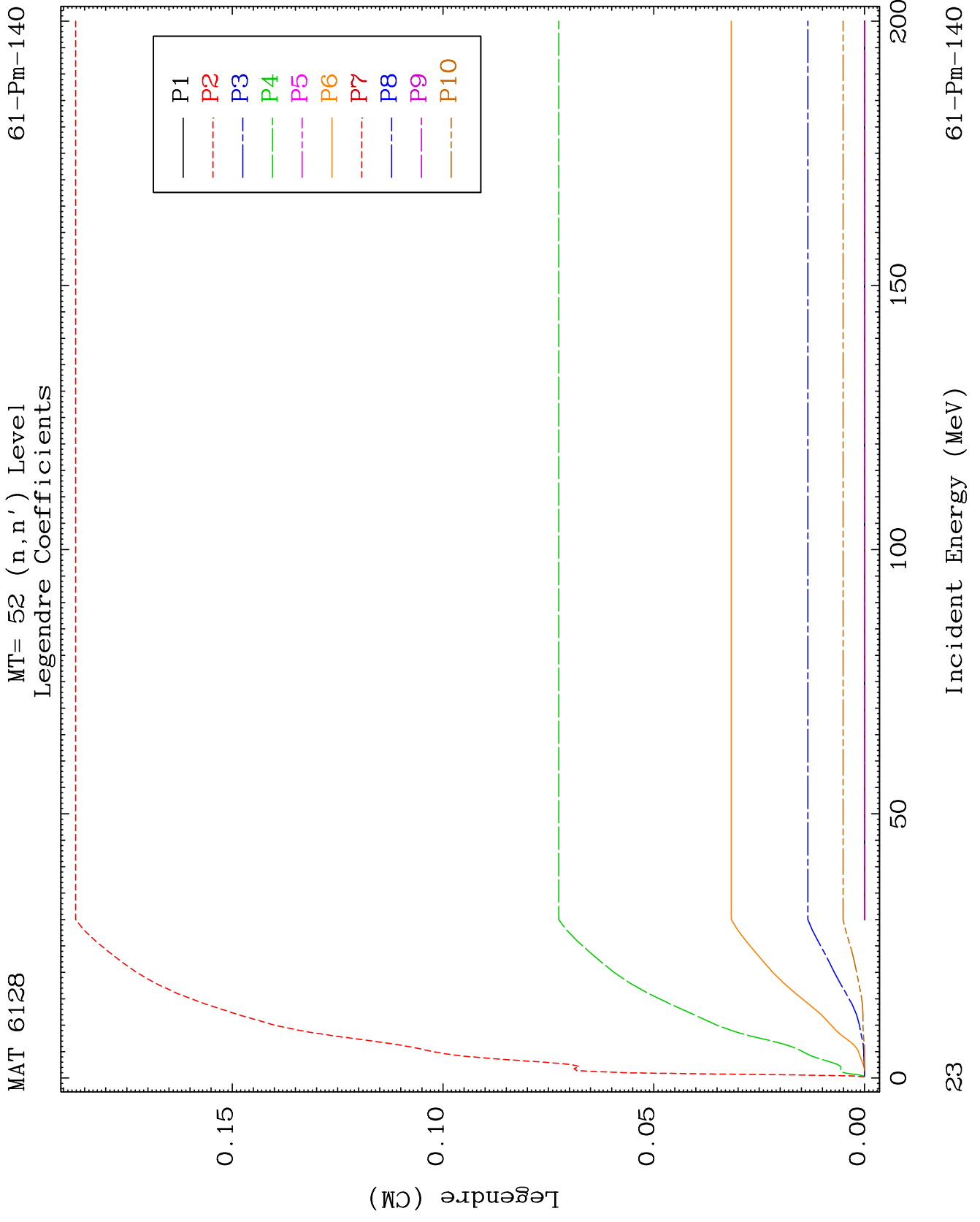


21

Incident Energy (MeV)

61-Pm-140

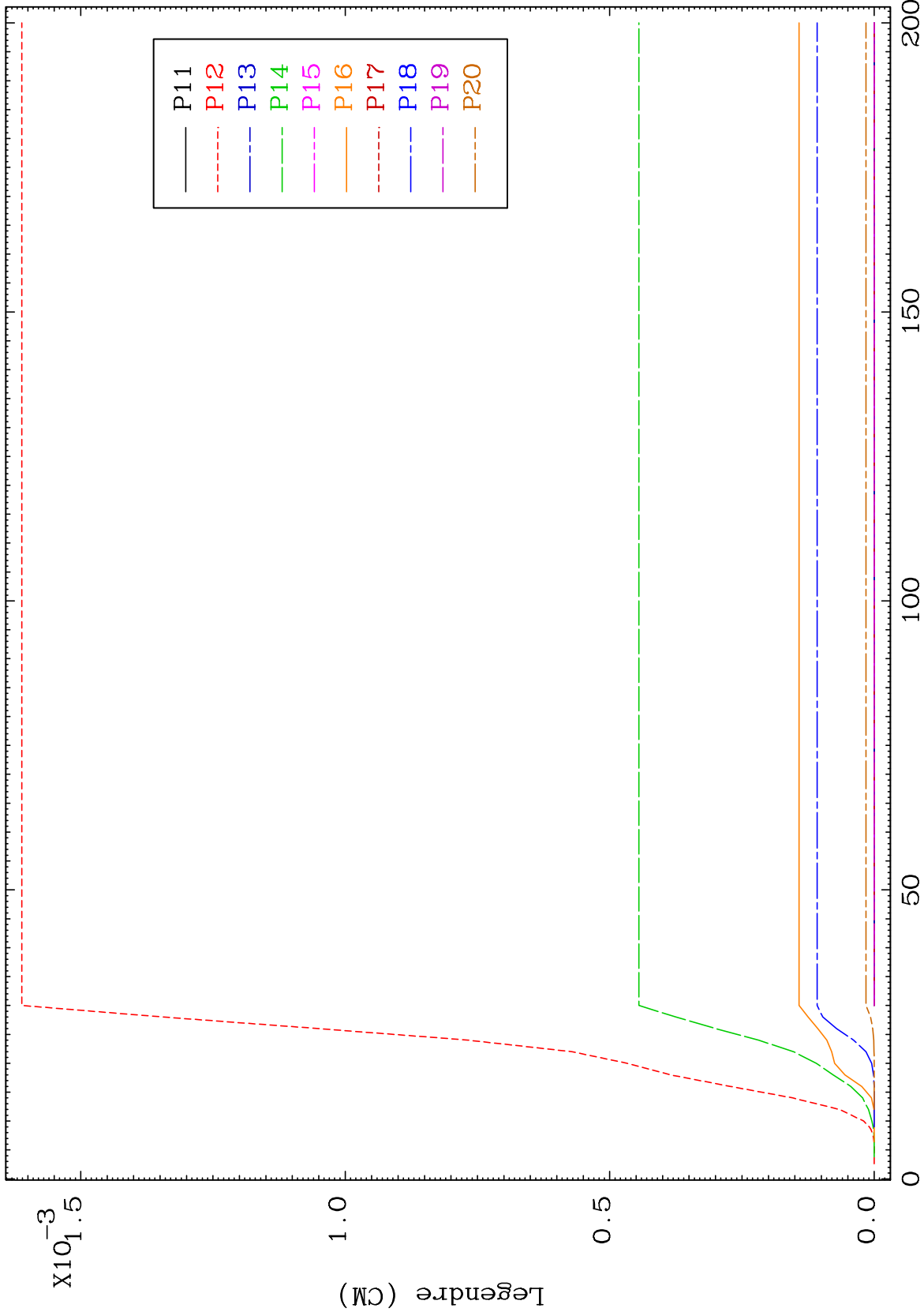




MAT 6128

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

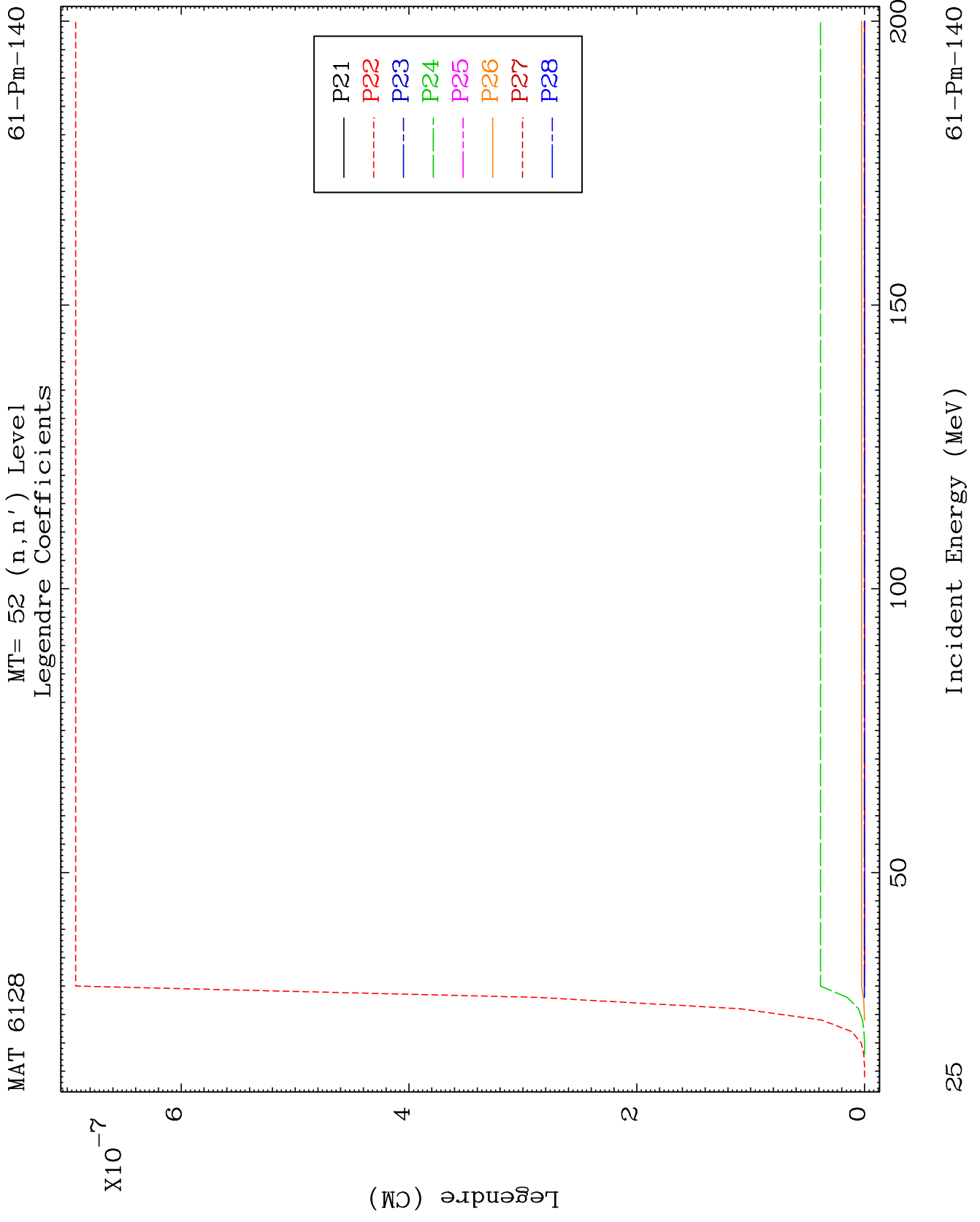
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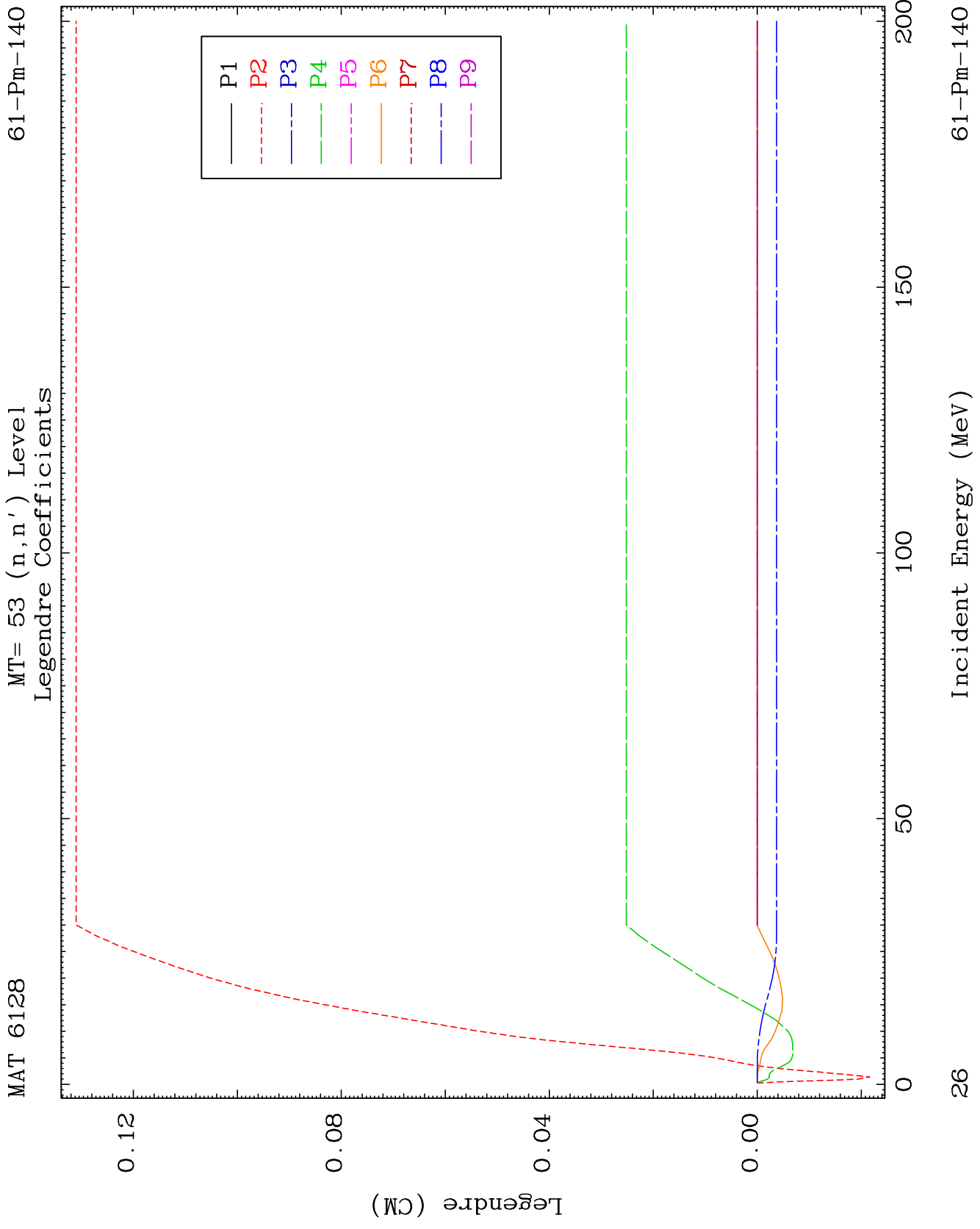


24

Incident Energy (MeV)

61-Pm-140

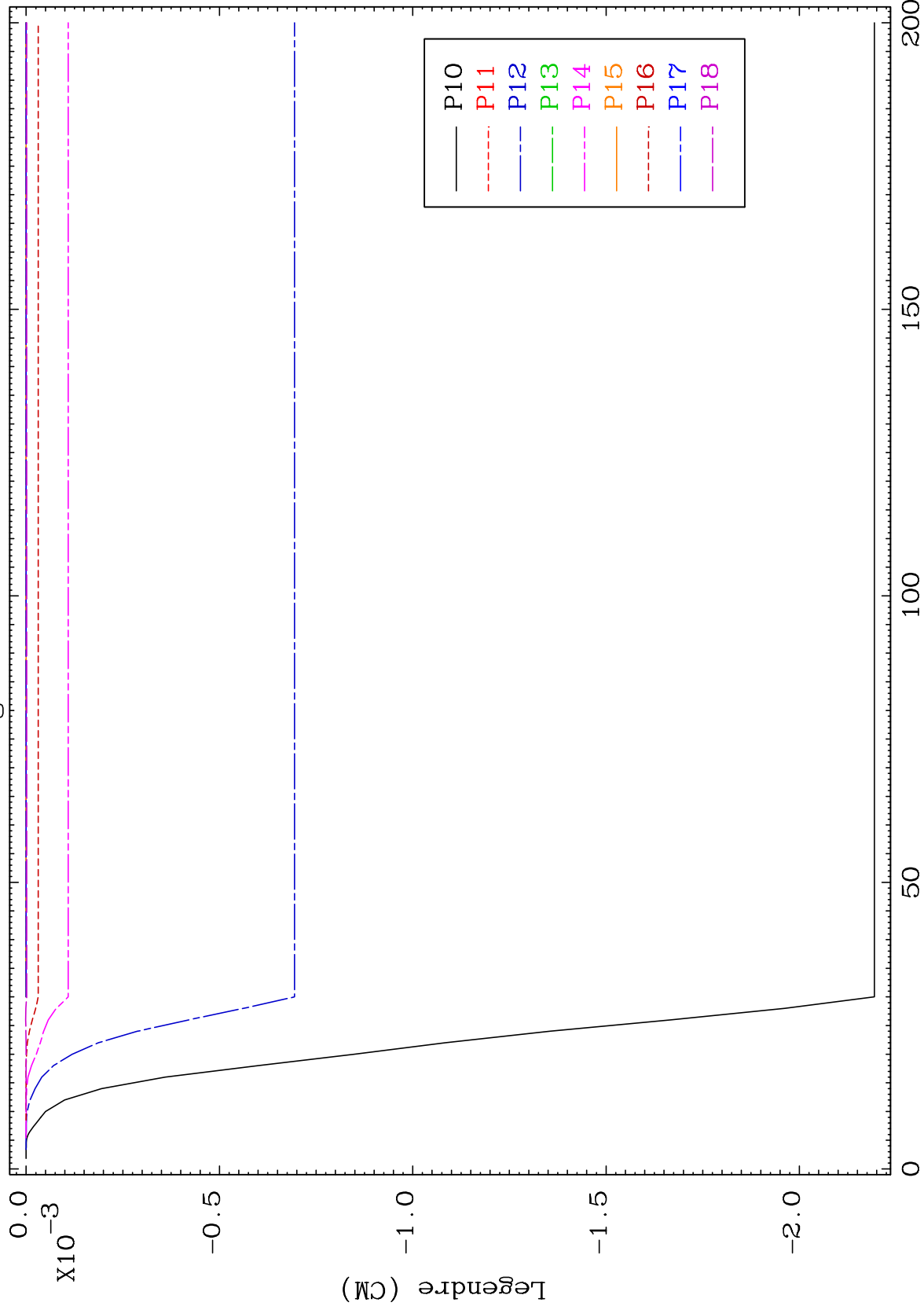


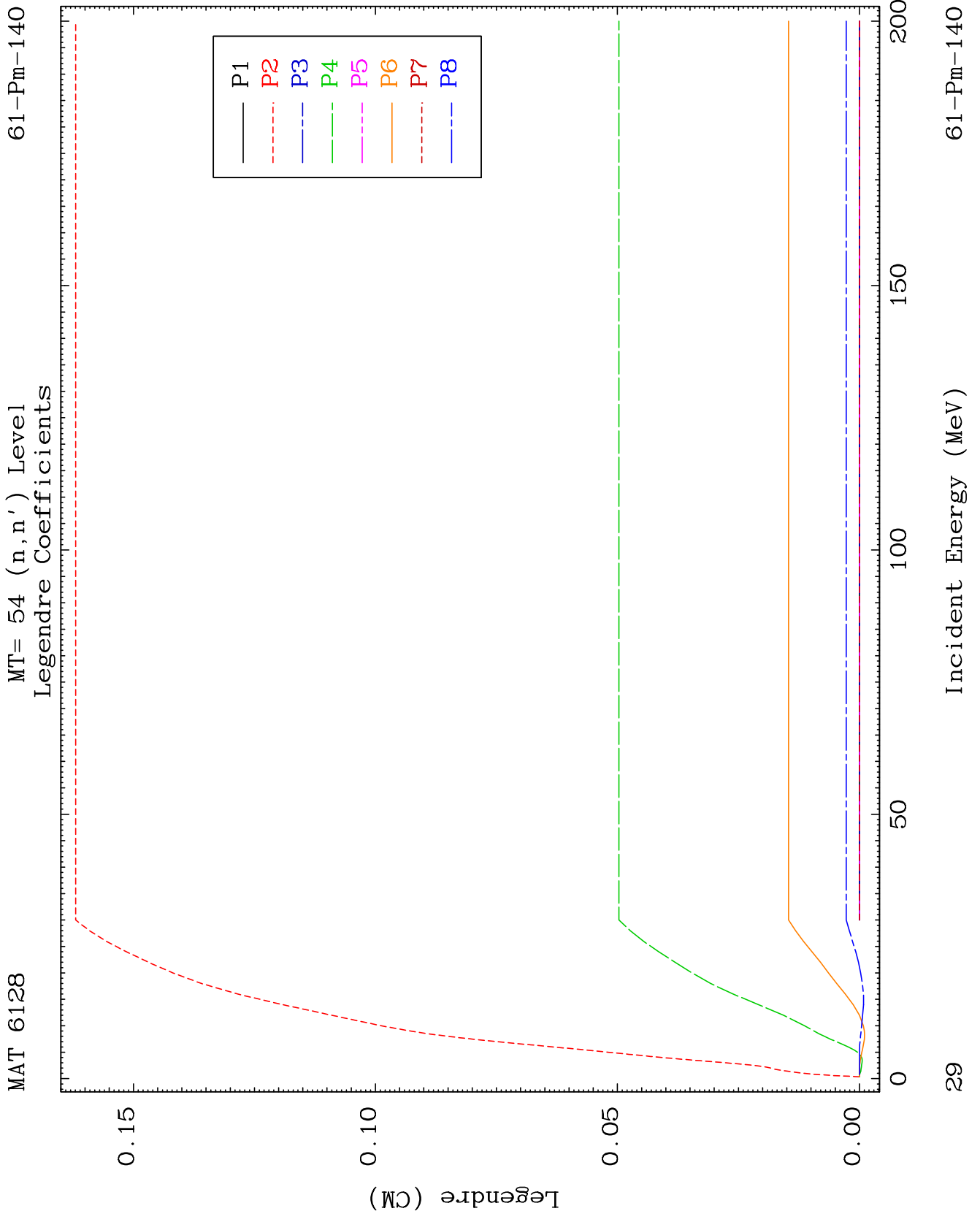


MAT 6128

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

61-Pm-140

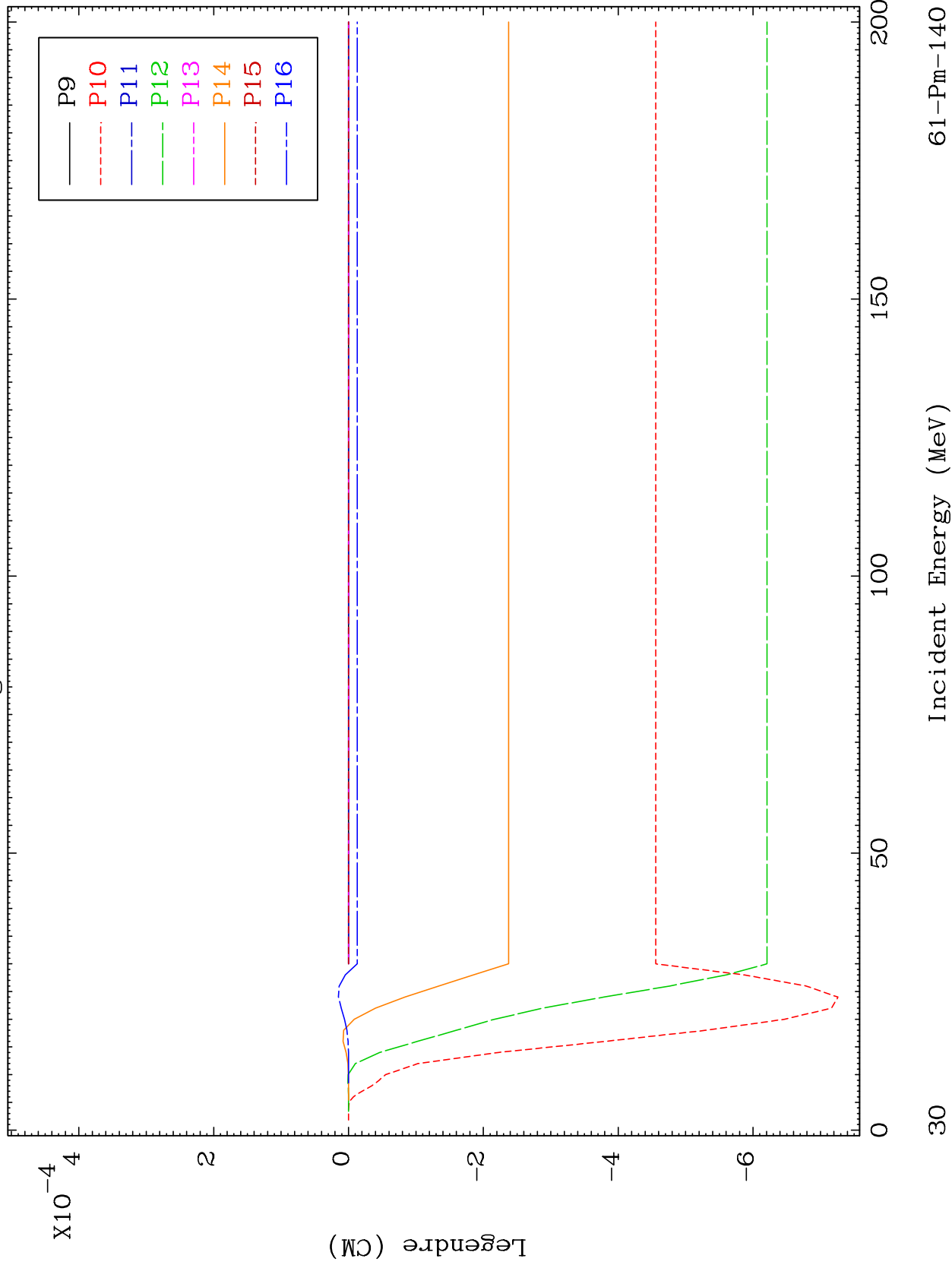


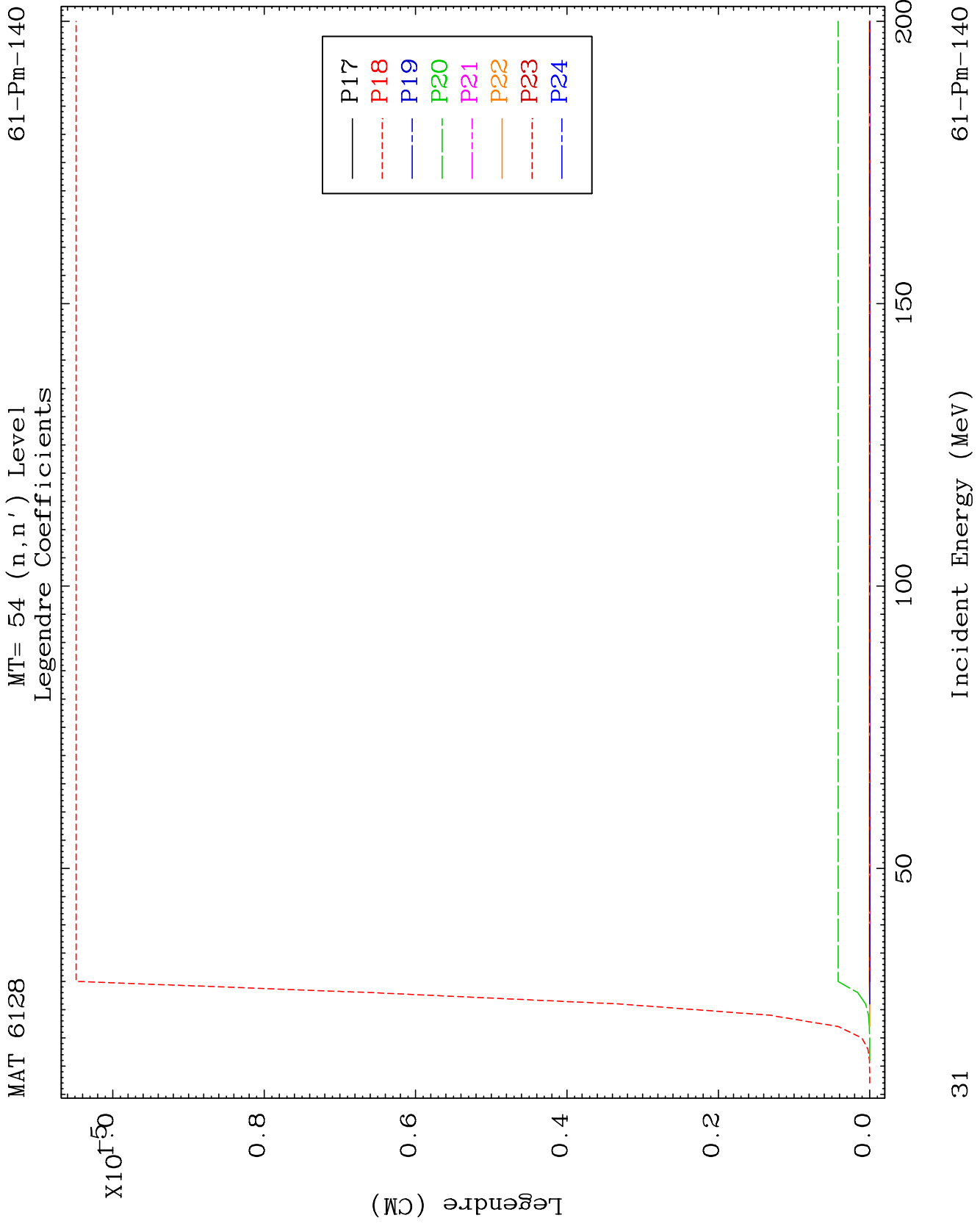


MAT 6128

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

61-Pm-140

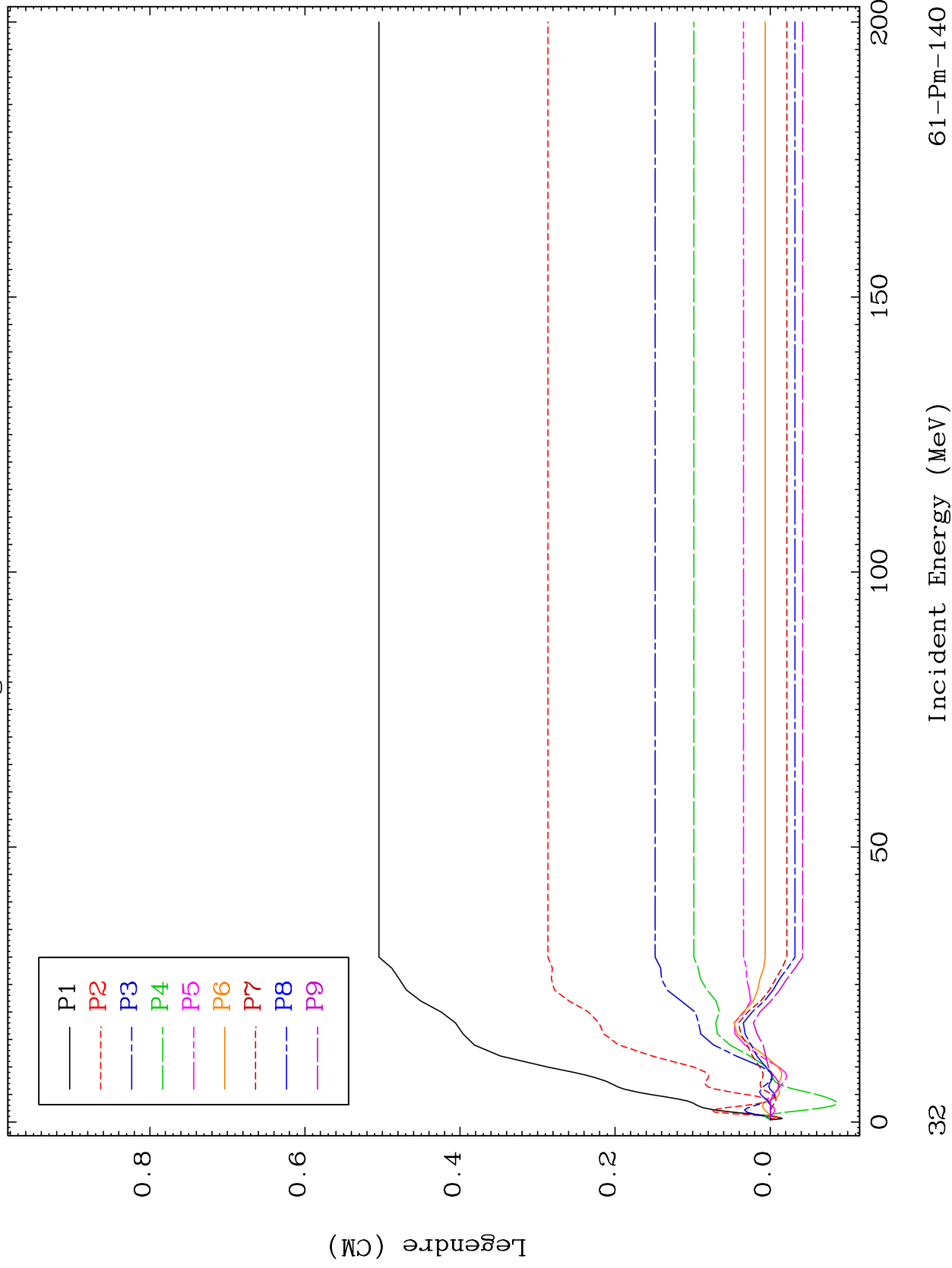




MAT 6128

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

61-Pm-140



61-Pm-140

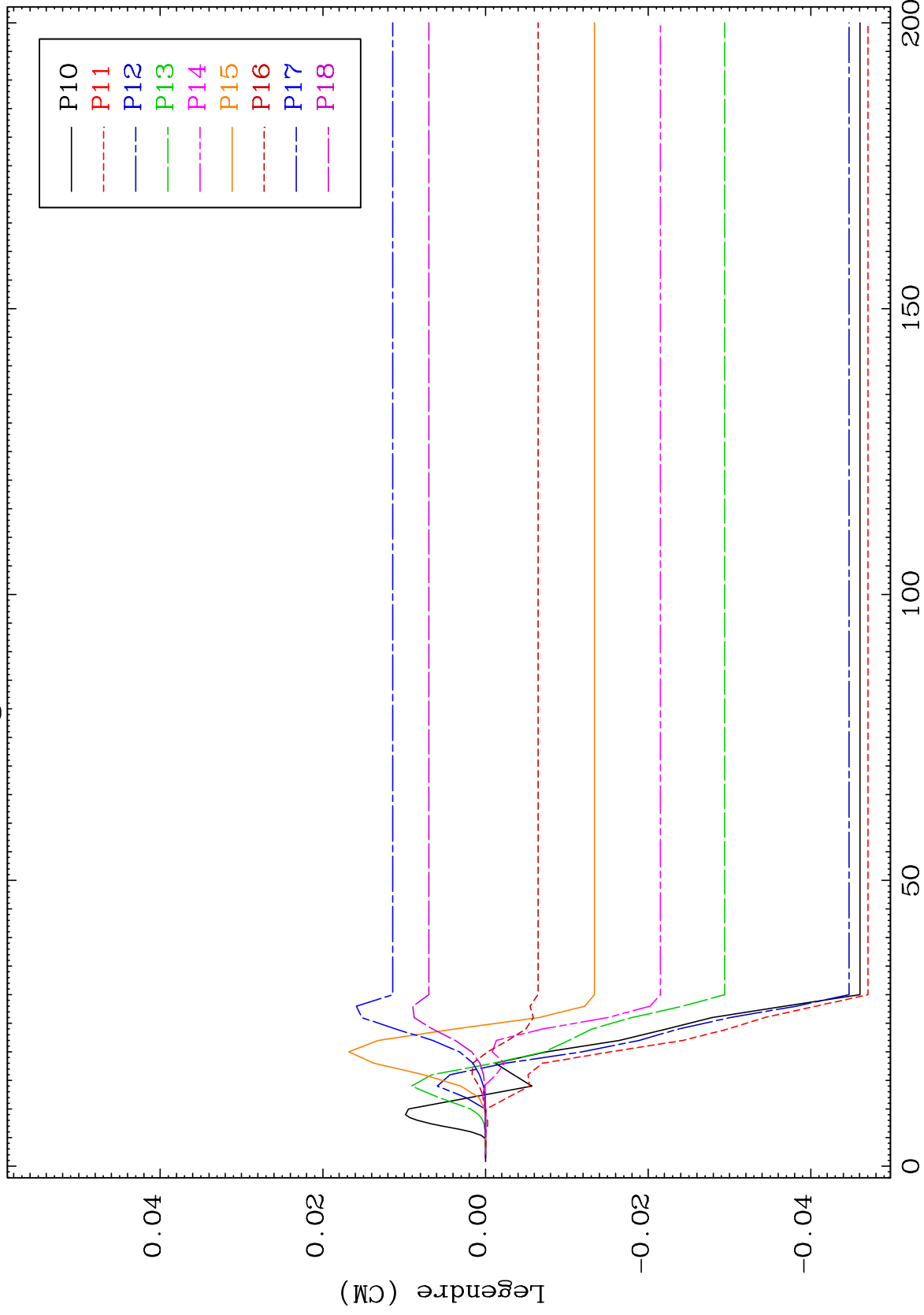
Incident Energy (MeV)

32

MAT 6128

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

61-Pm-140



33

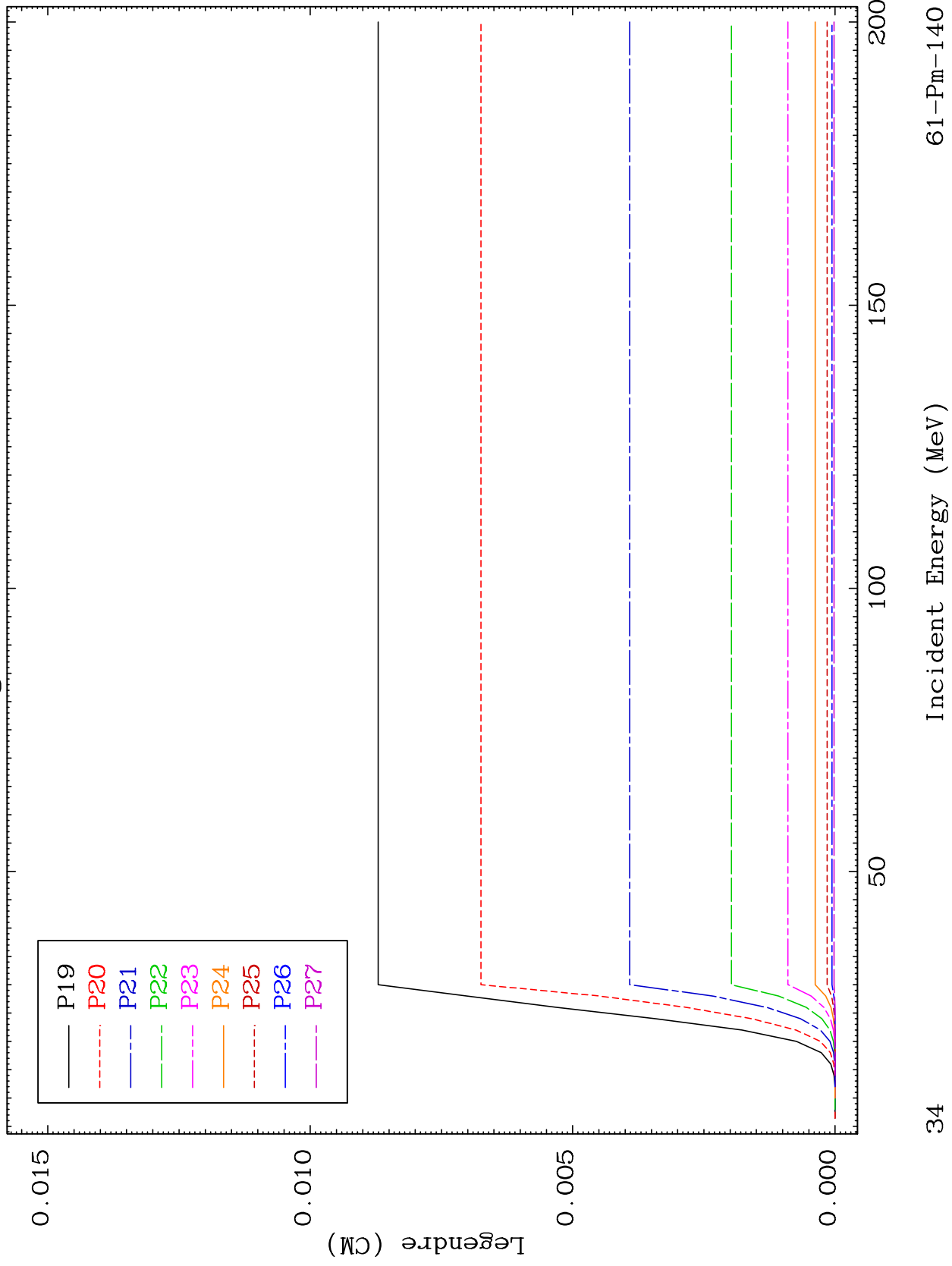
Incident Energy (MeV)

61-Pm-140

MAT 6128

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

61-Pm-140



34

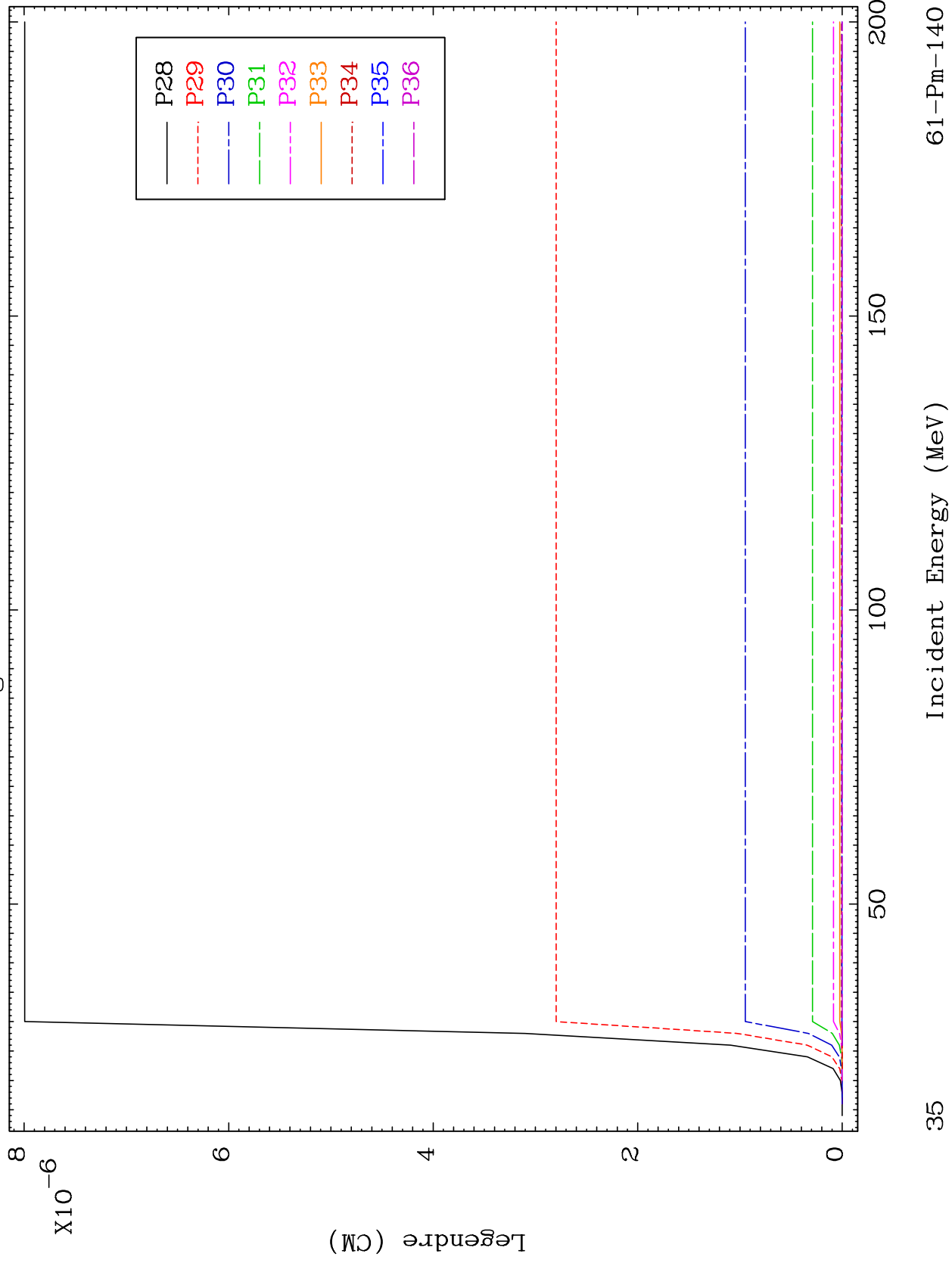
Incident Energy (MeV)

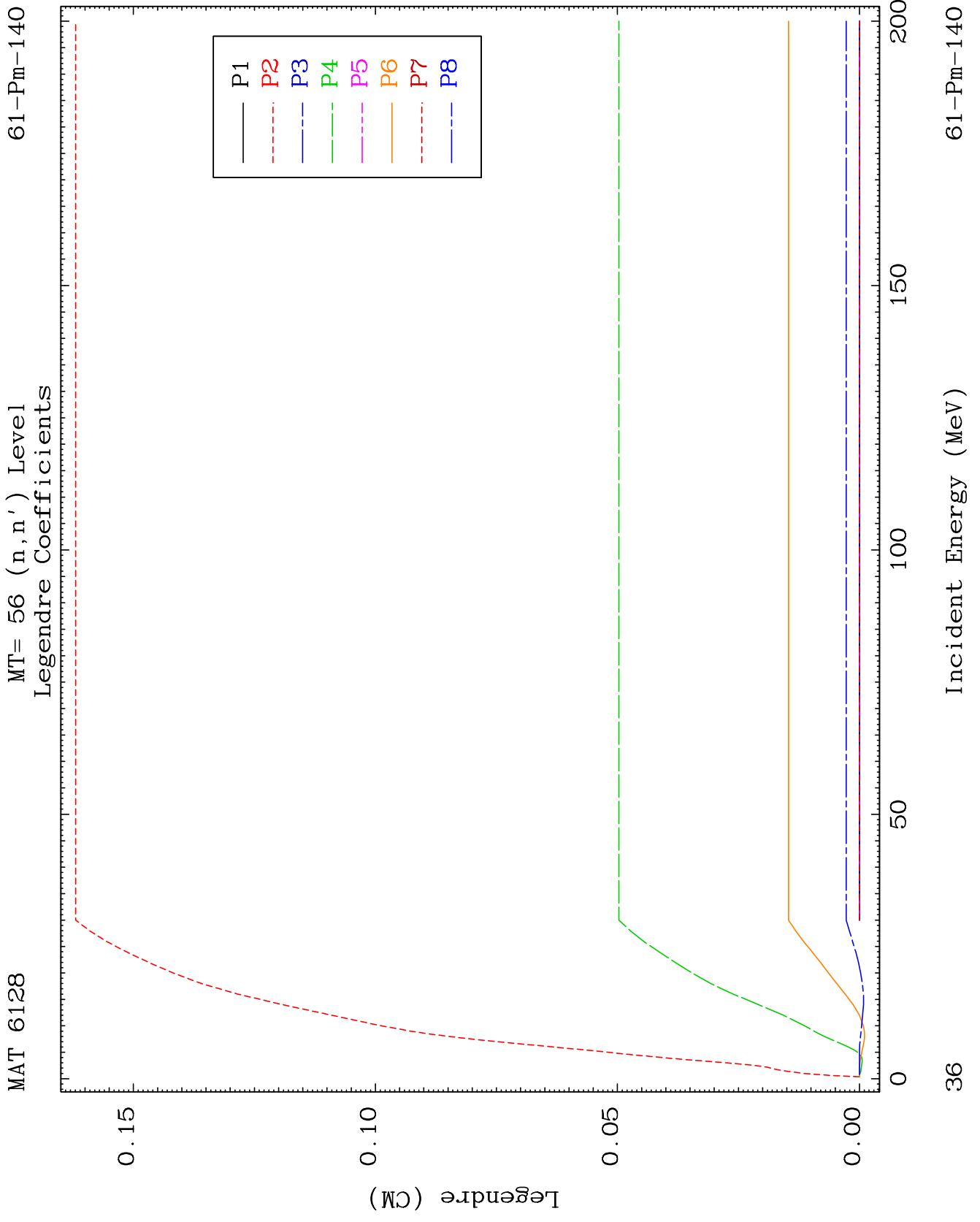
61-Pm-140

MAT 6128

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

61-Pm-140

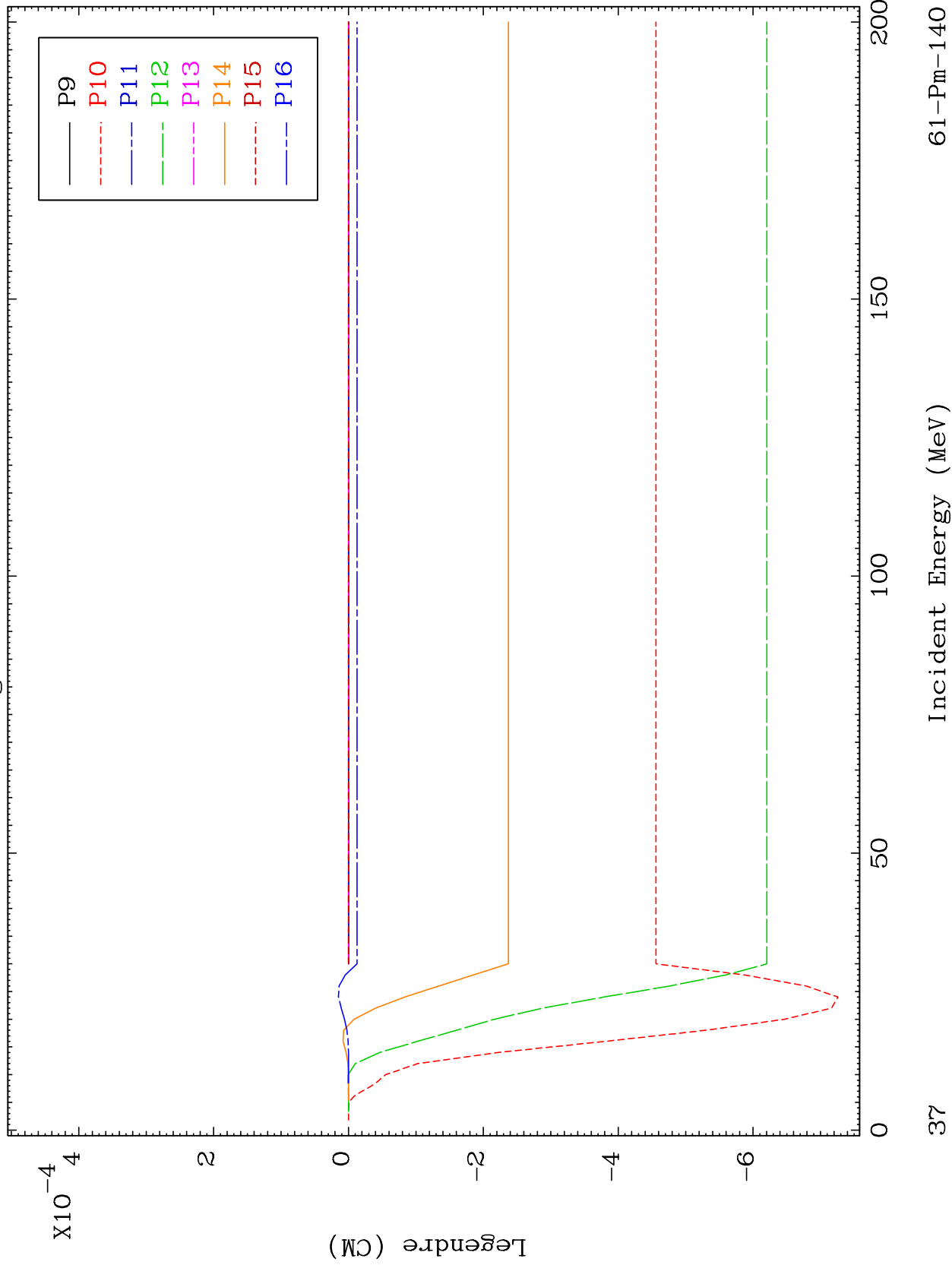


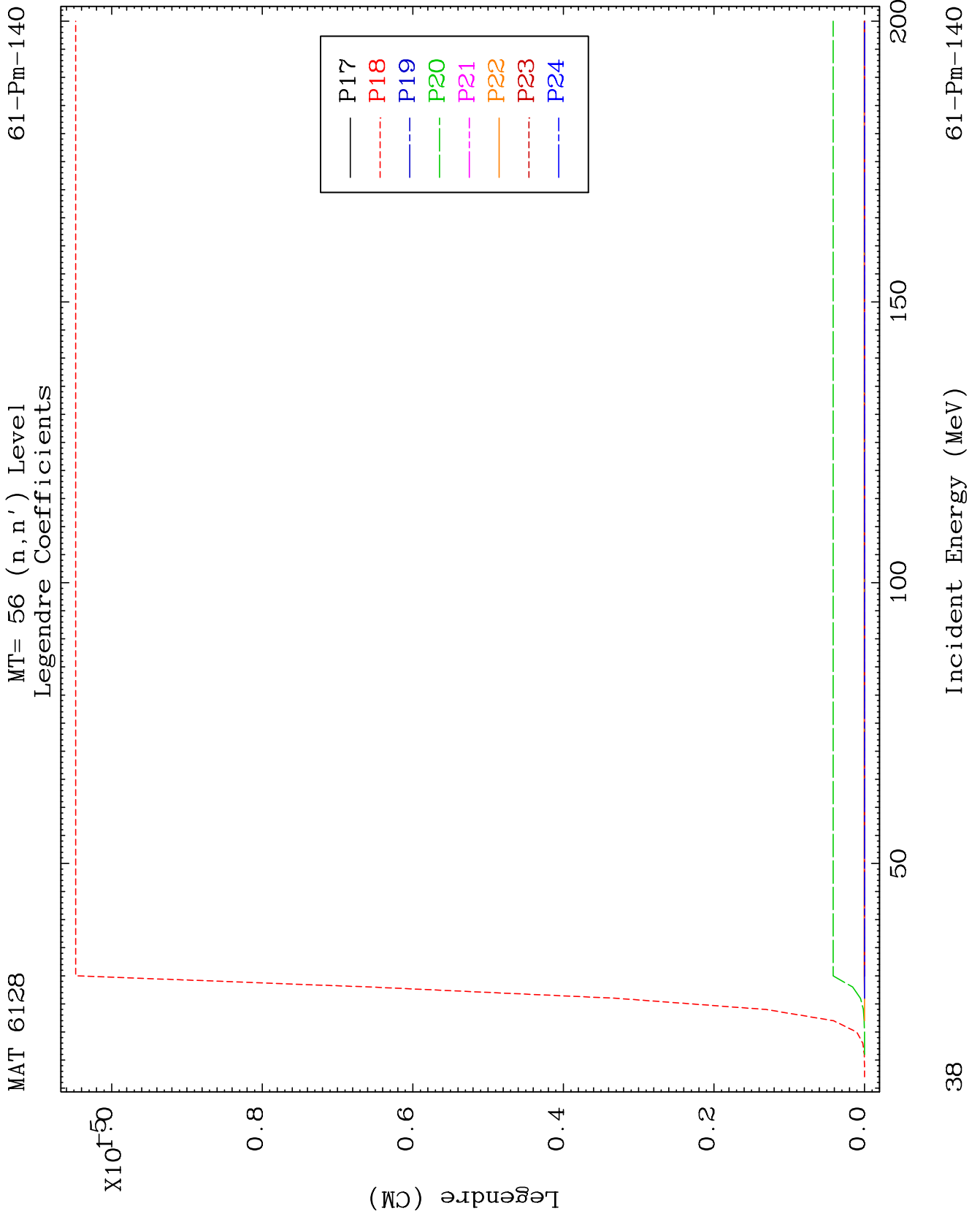


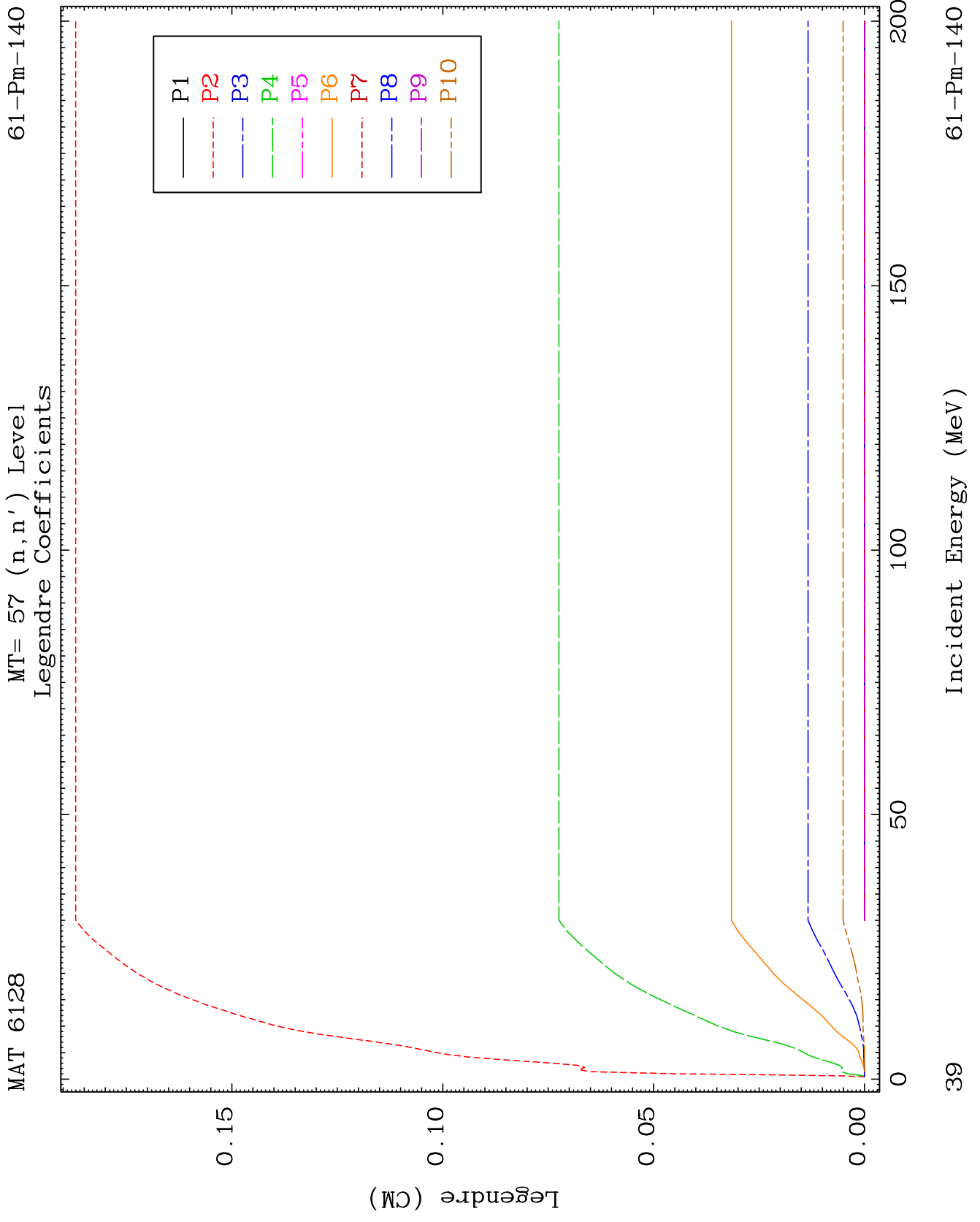
MAT 6128

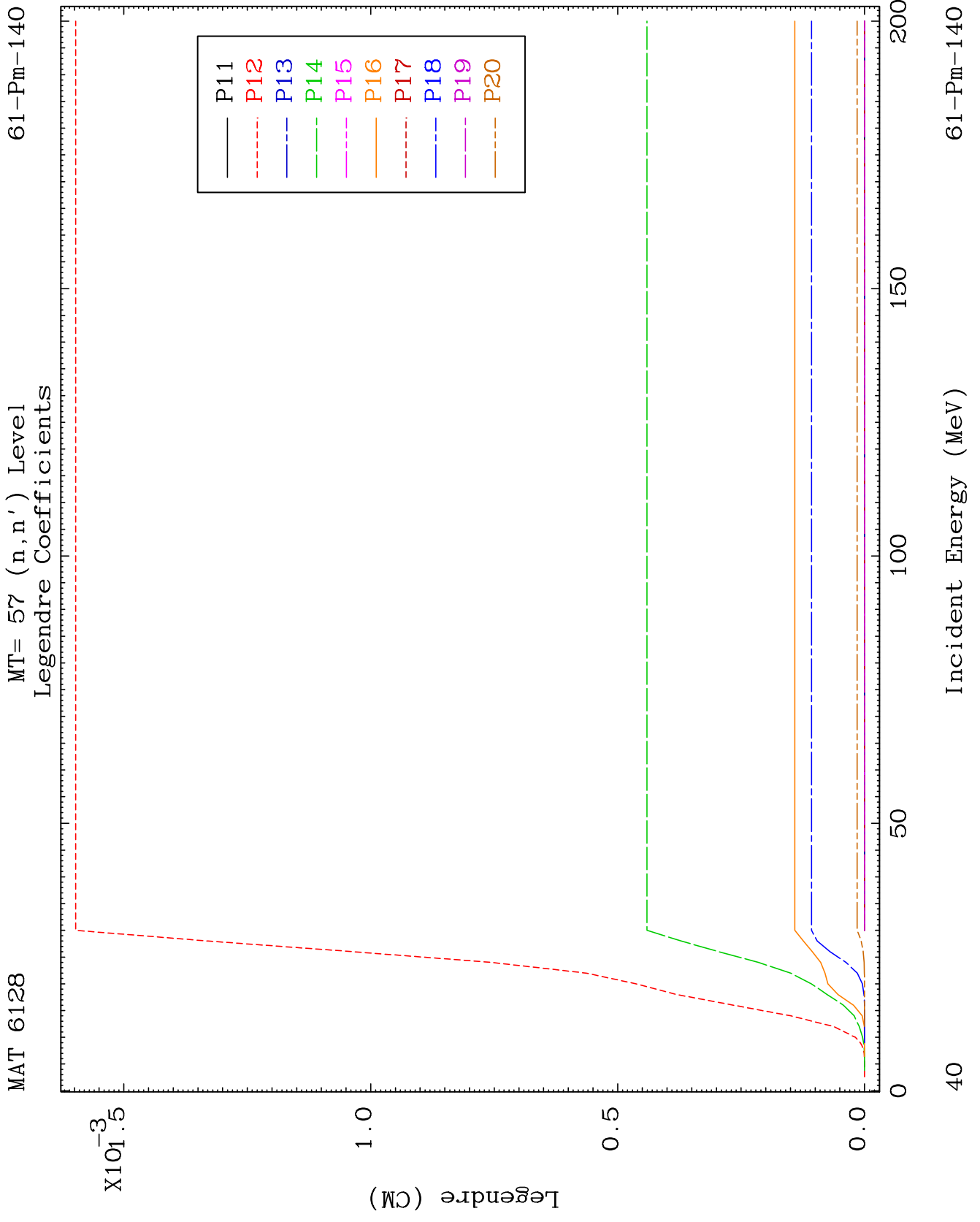
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Legendre Coefficients

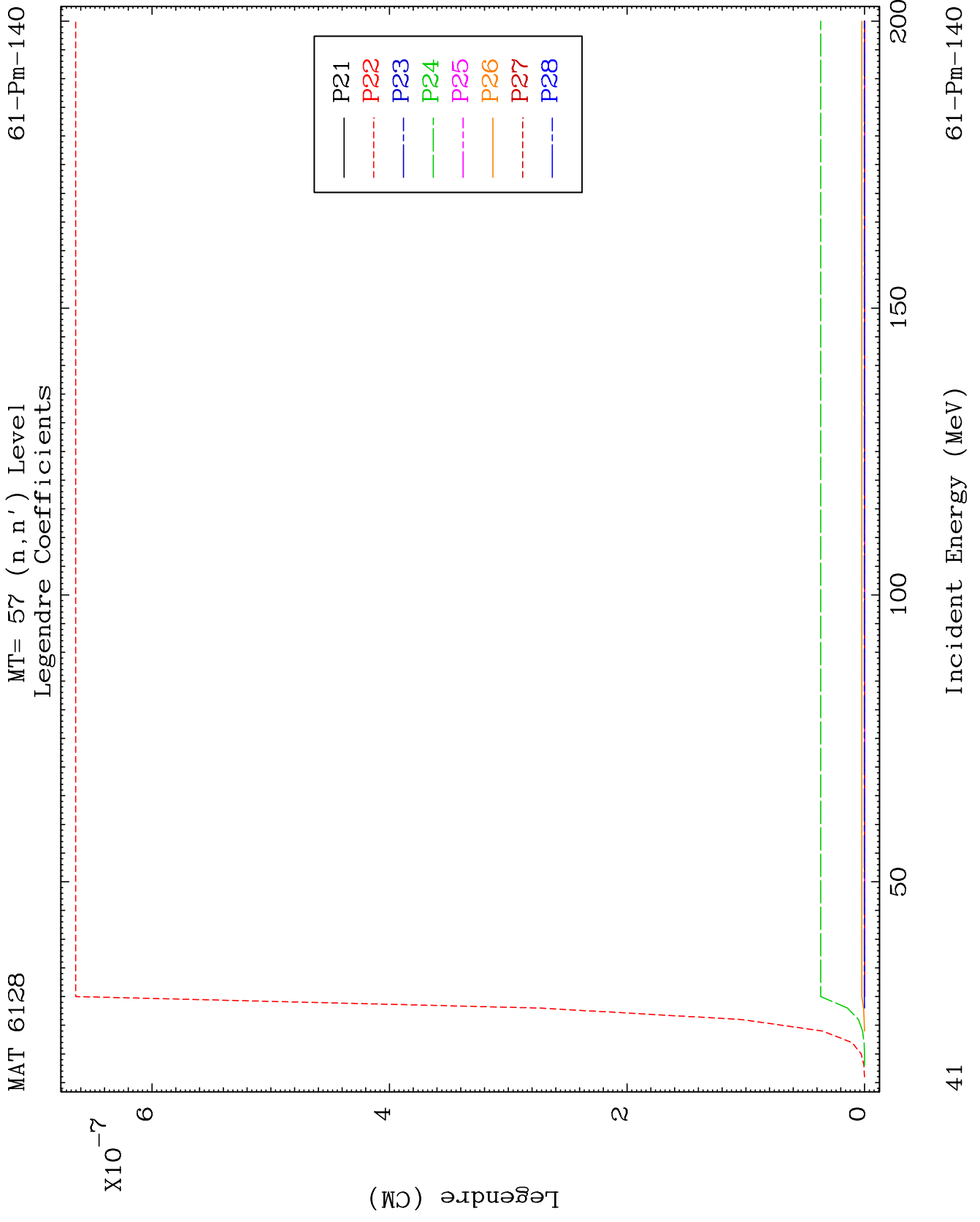
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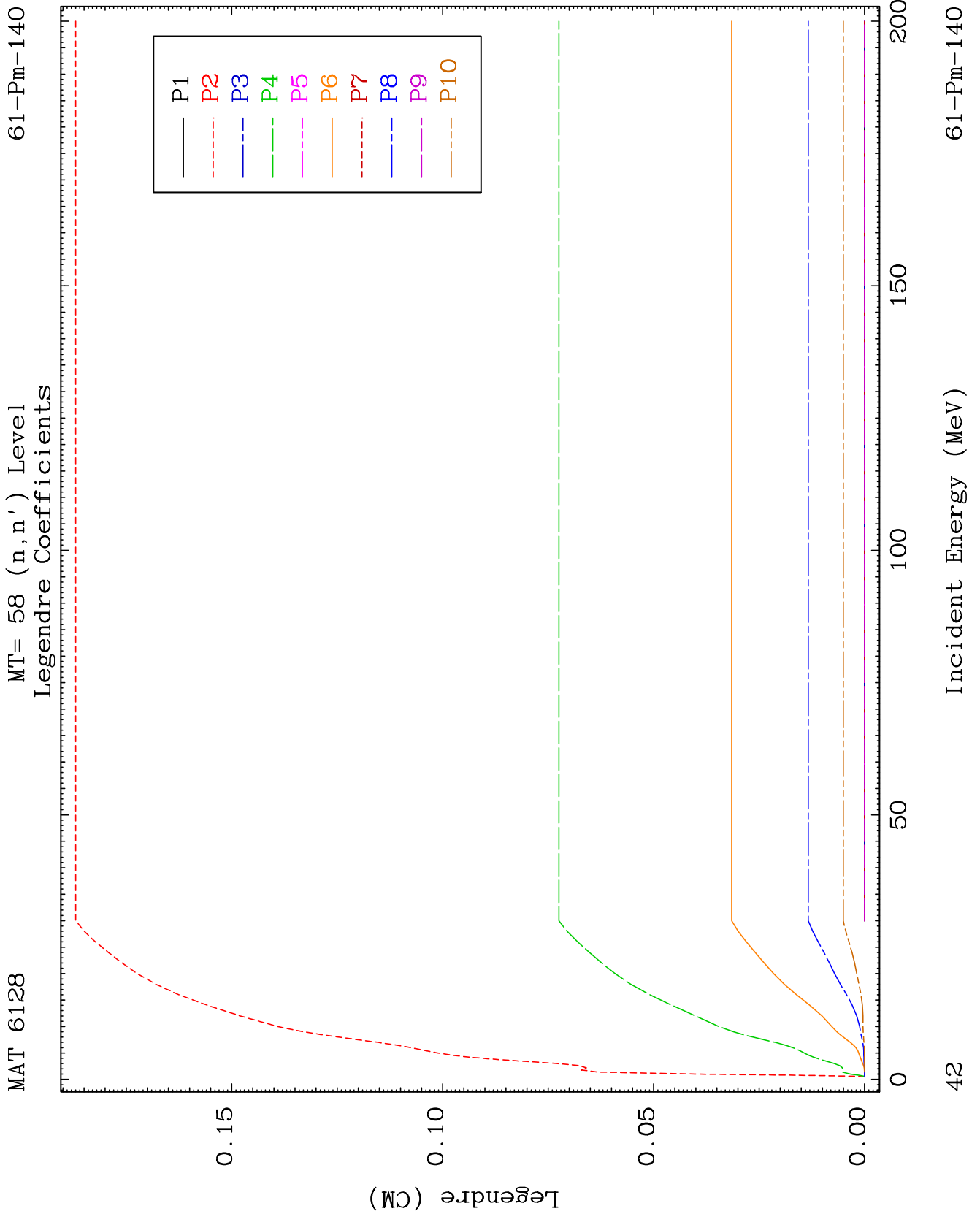


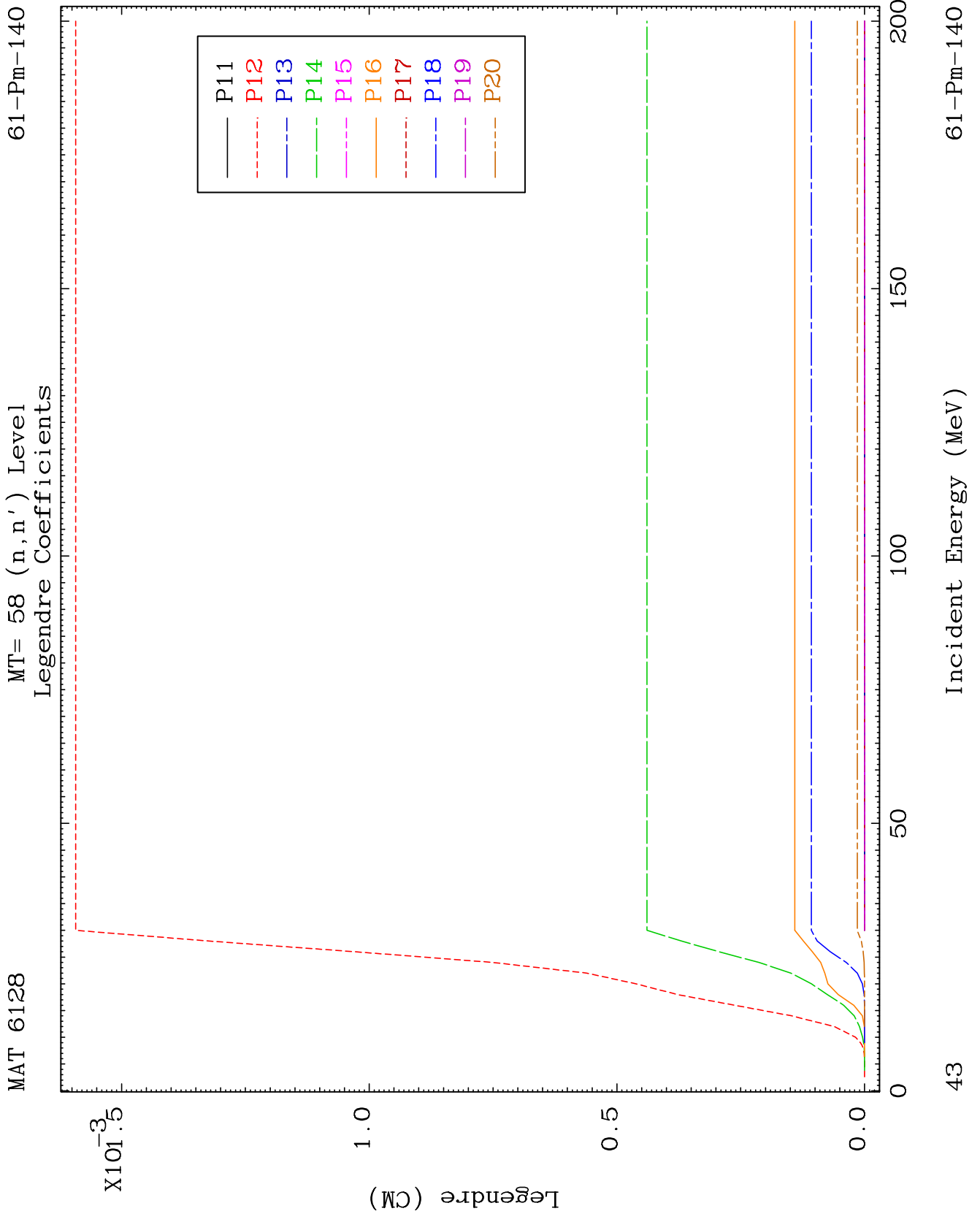


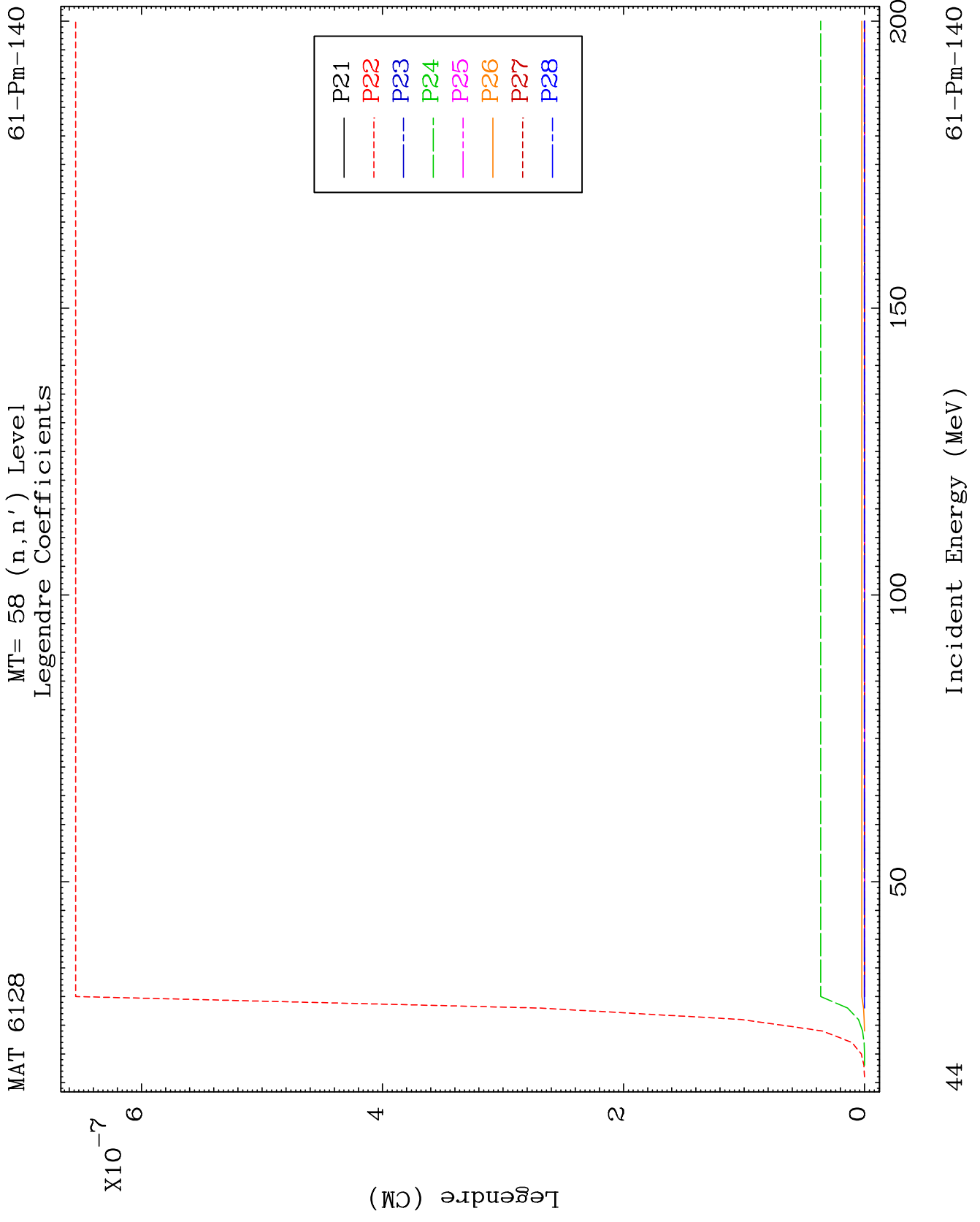


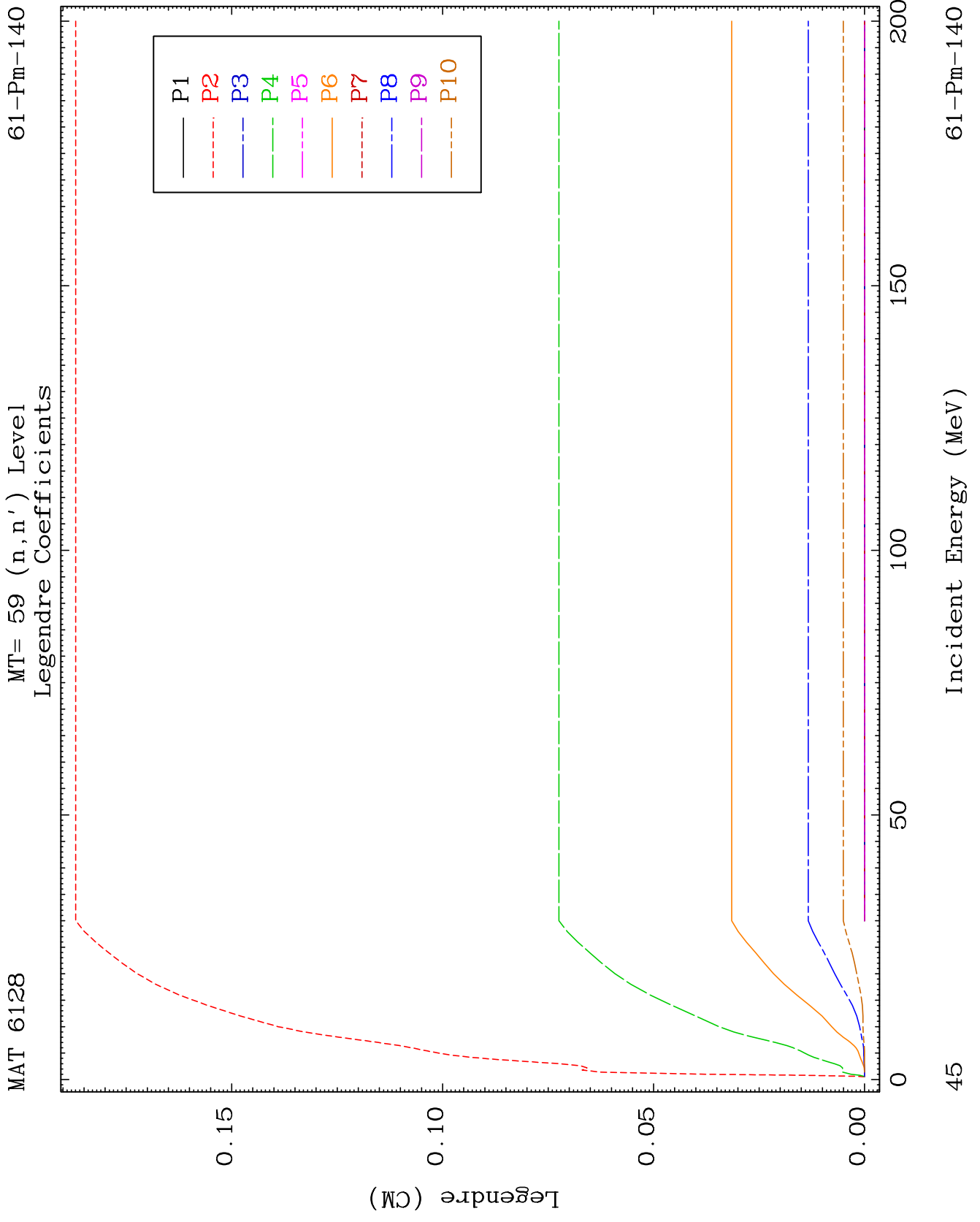


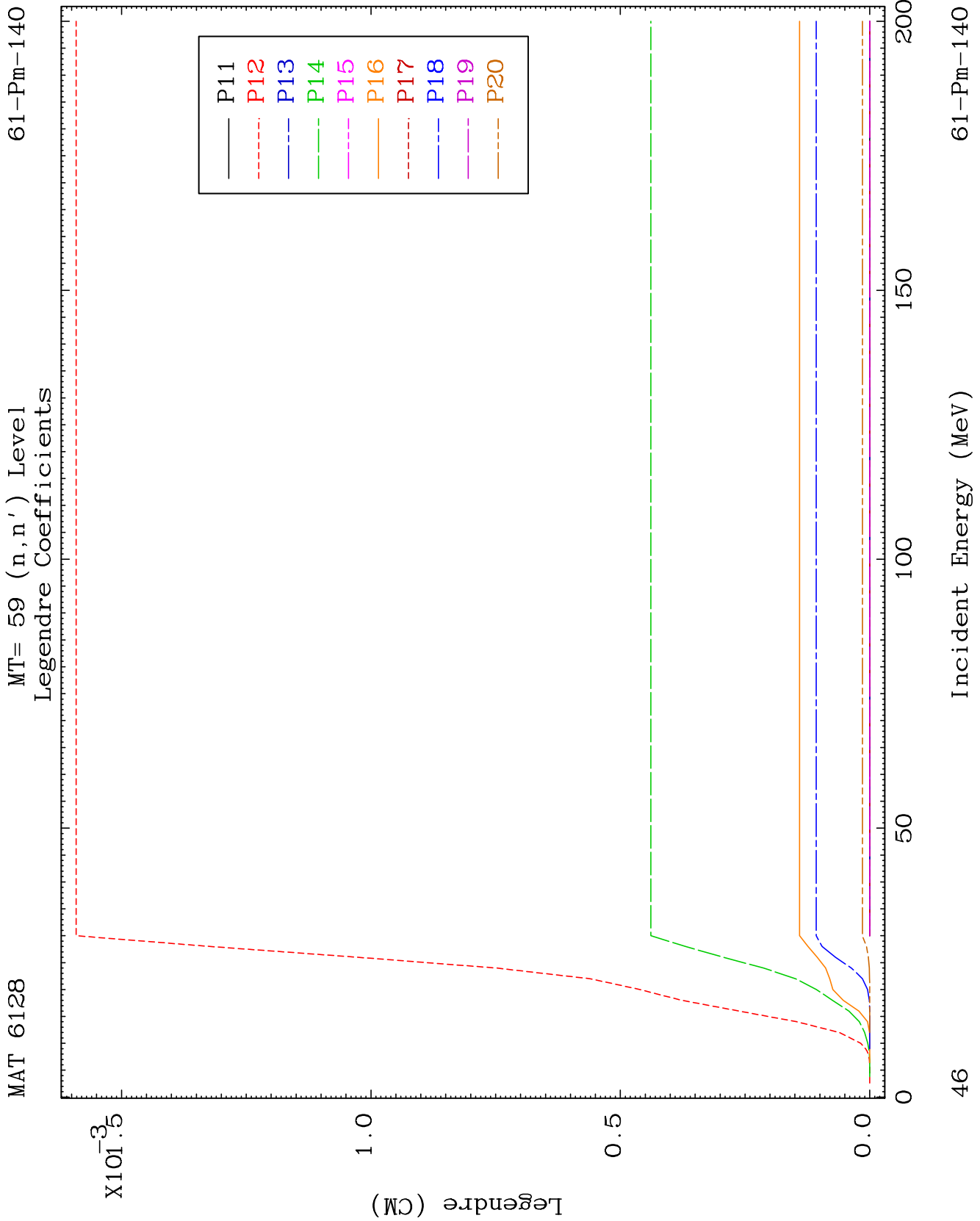


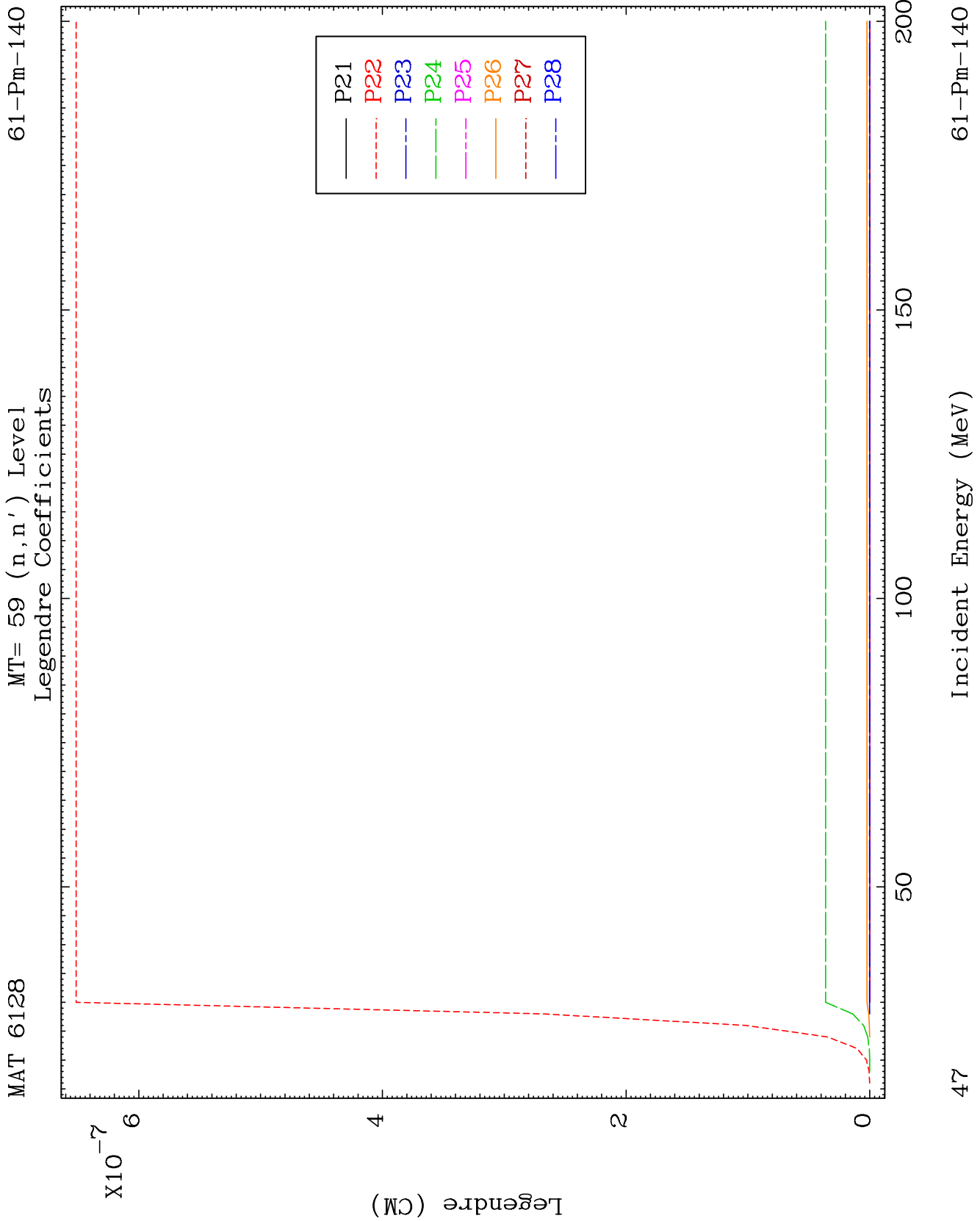


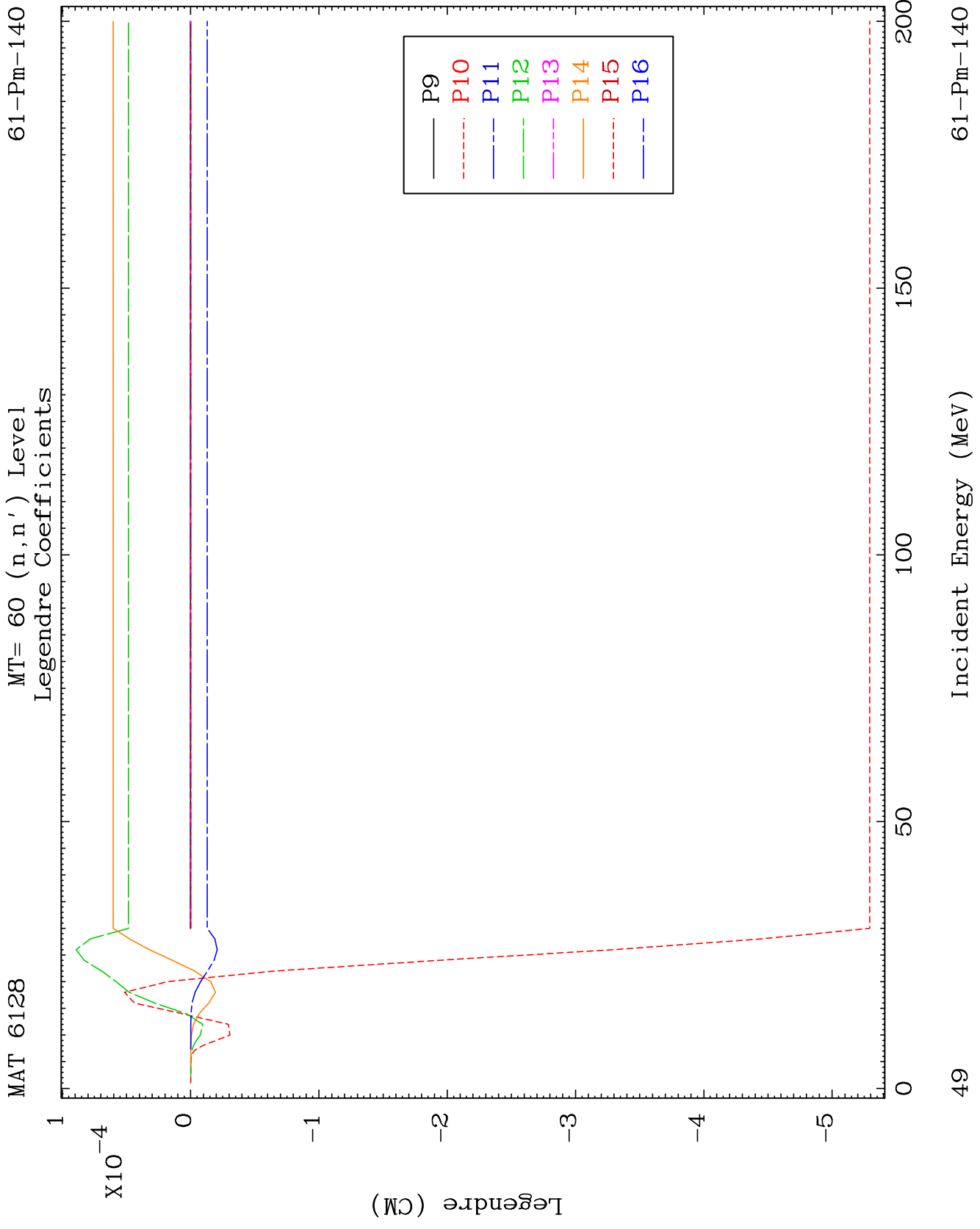


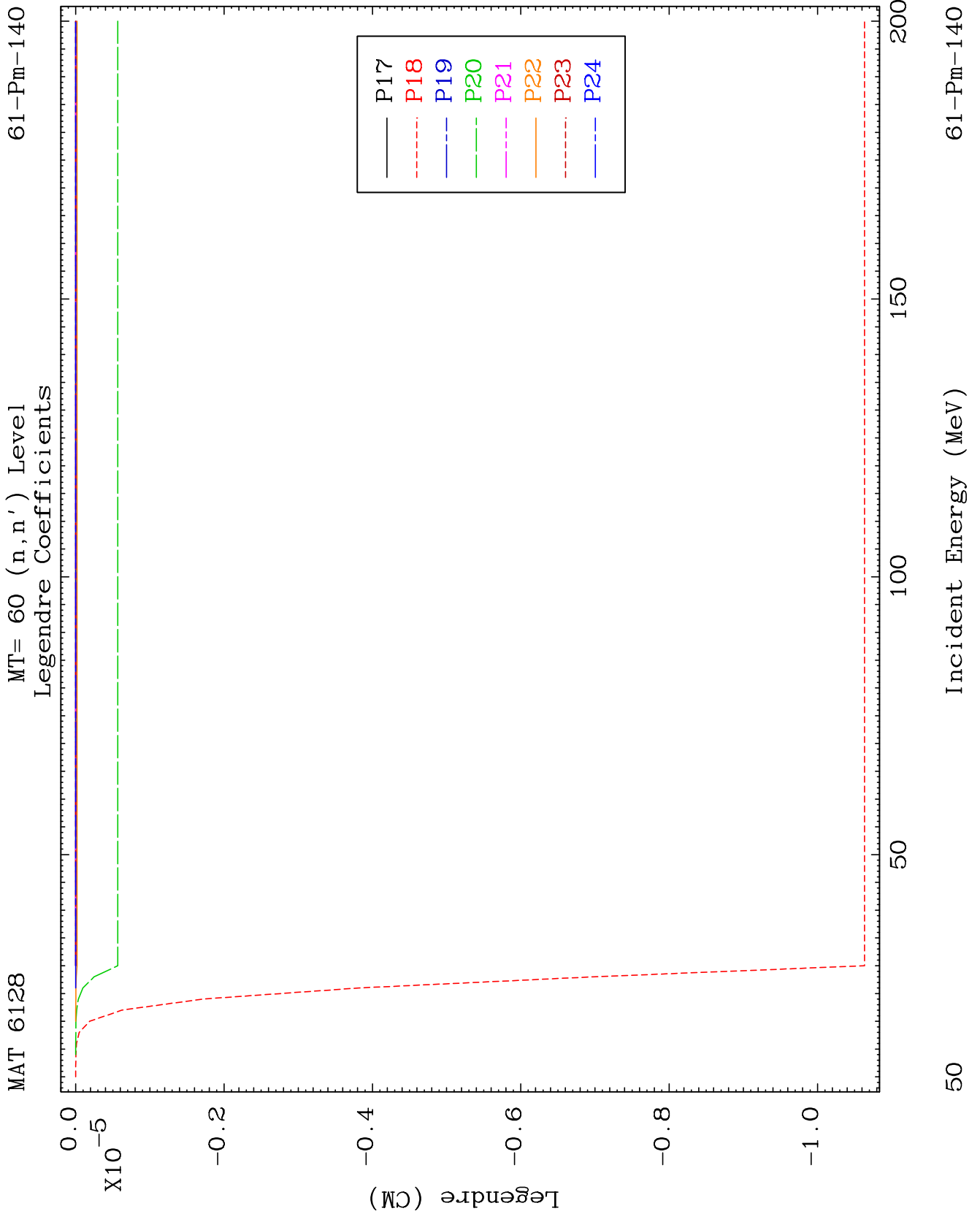


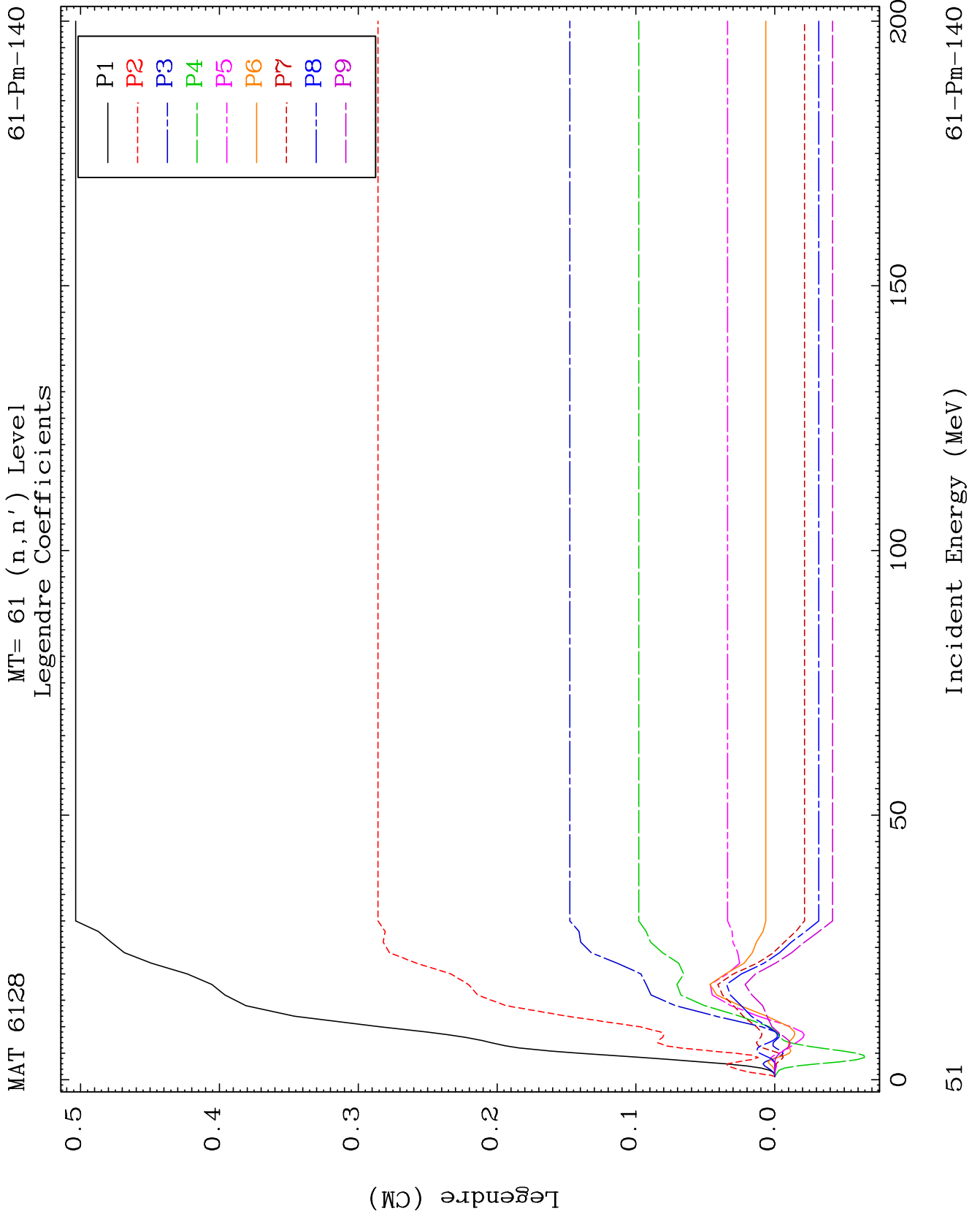








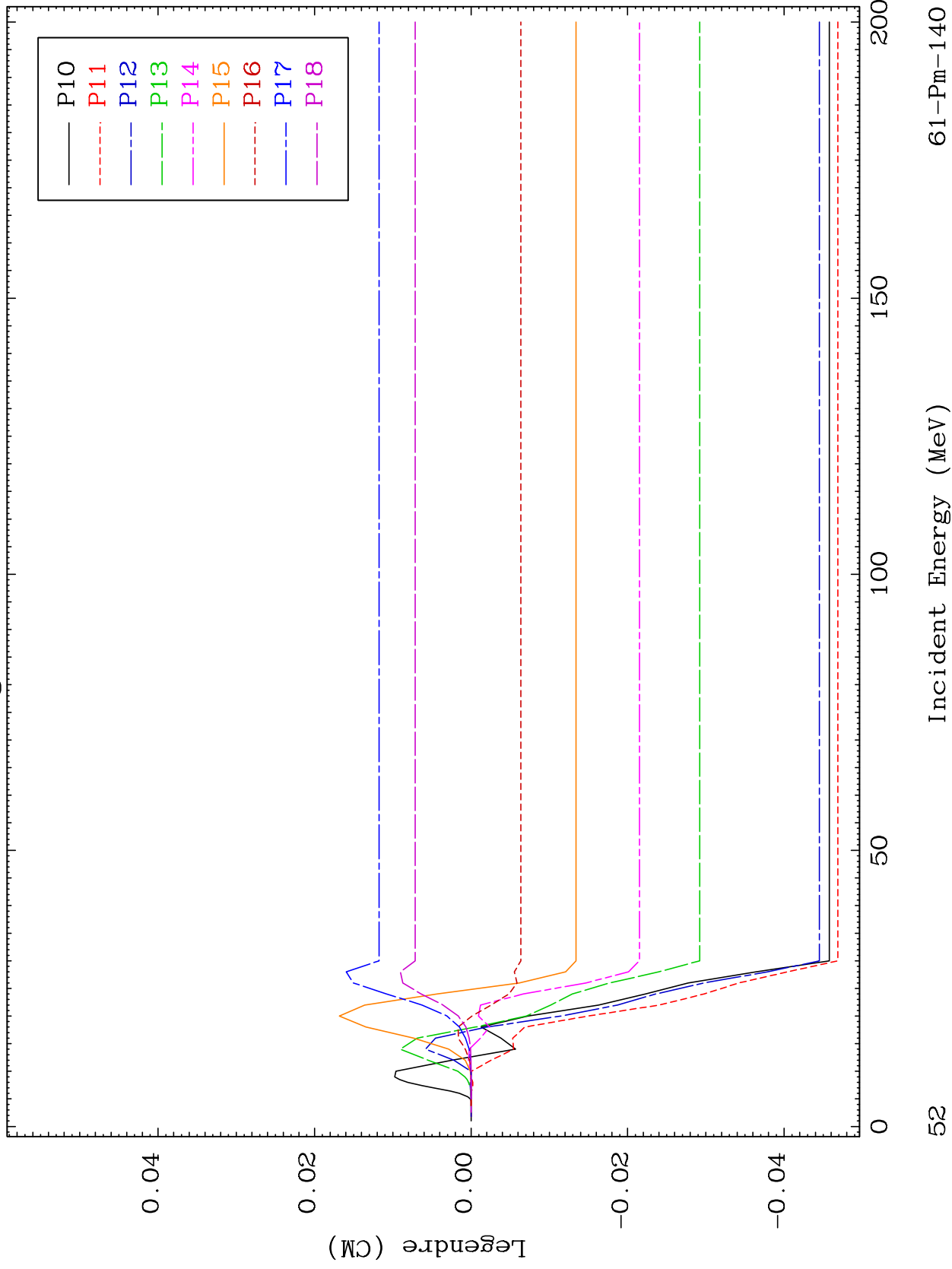




MAT 6128

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

61-Pm-140



61-Pm-140

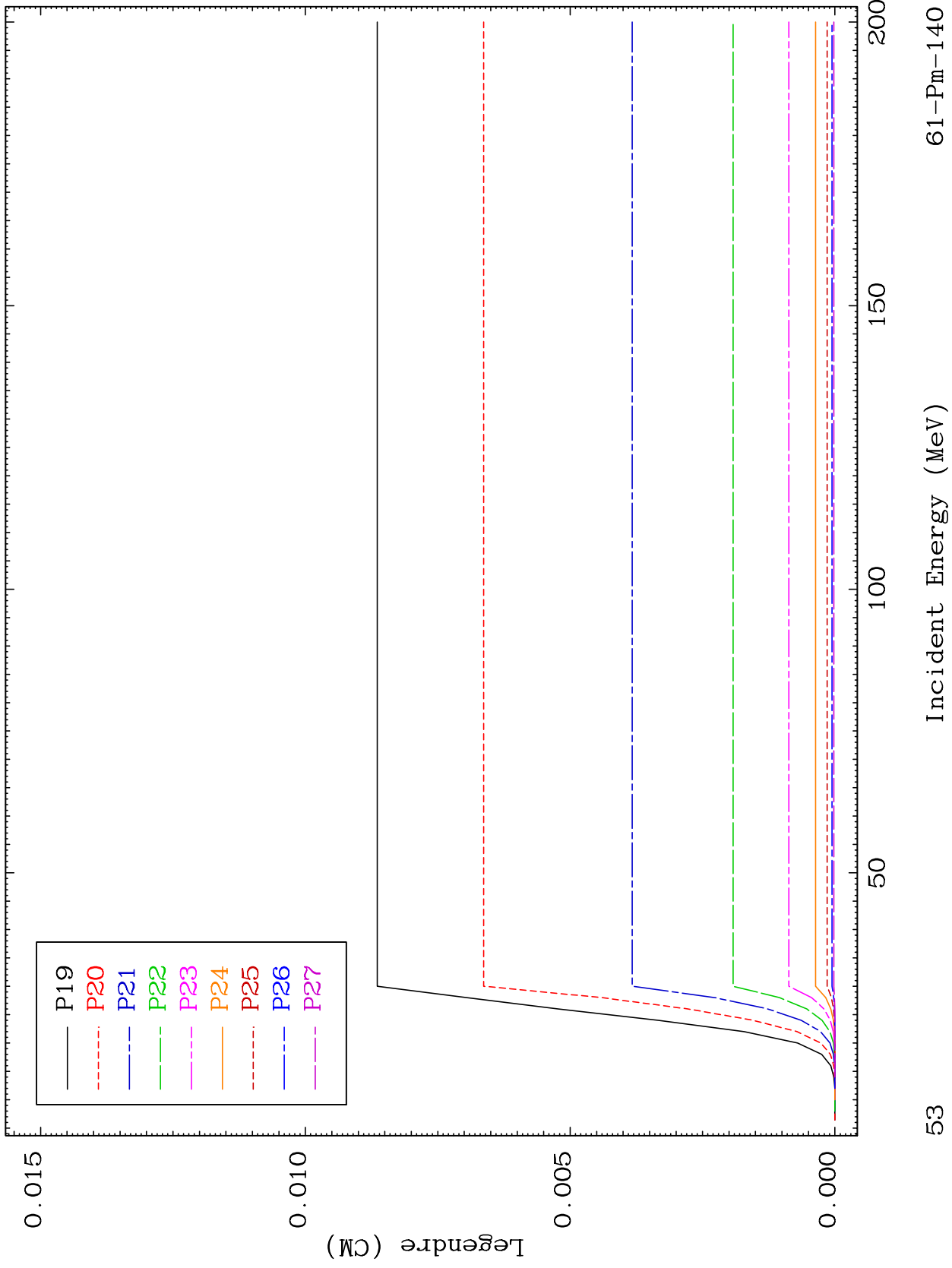
Incident Energy (MeV)

52

MAT 6128

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

61-Pm-140



53

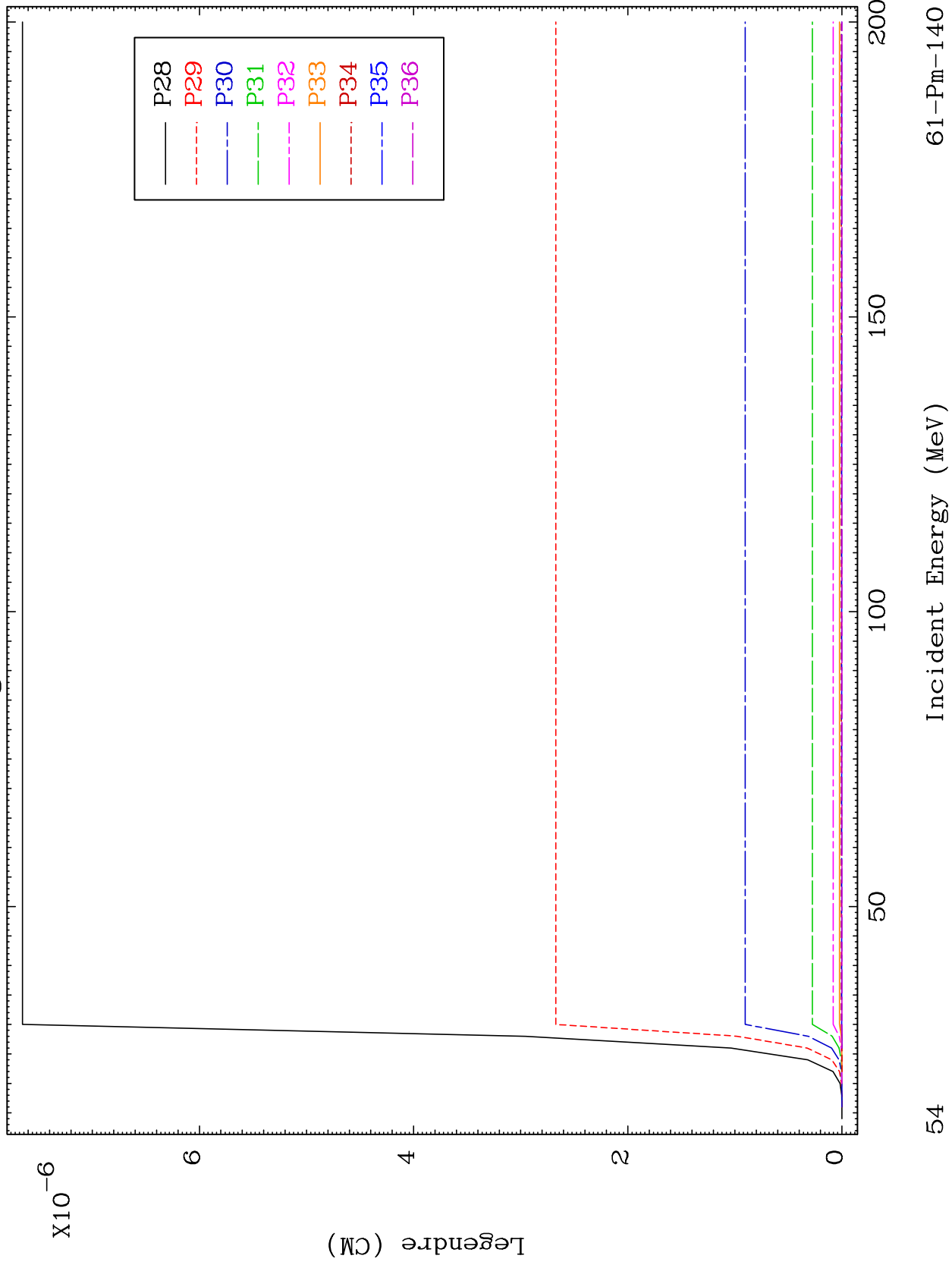
Incident Energy (MeV)

61-Pm-140

MAT 6128

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

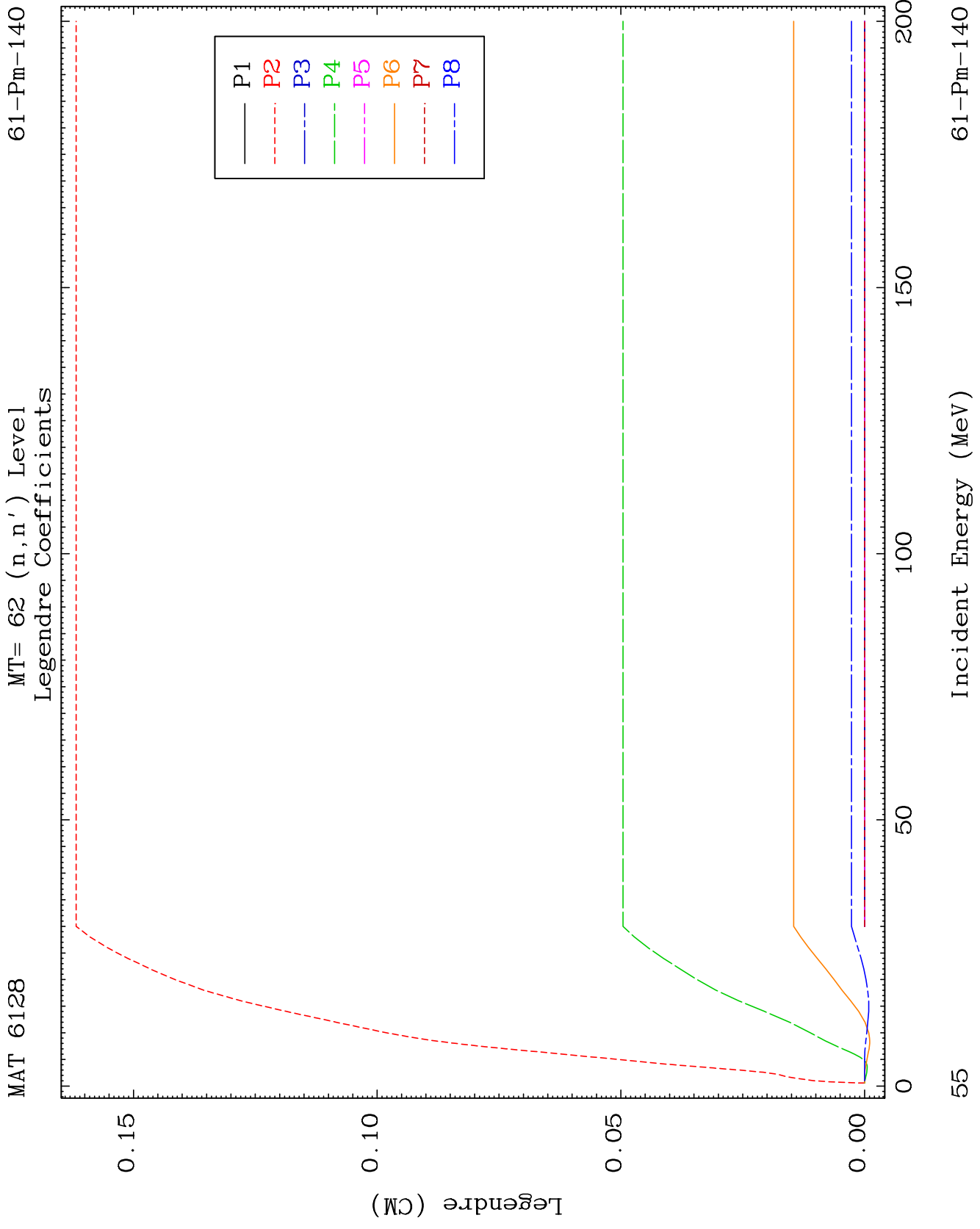
61-Pm-140



54

Incident Energy (MeV)

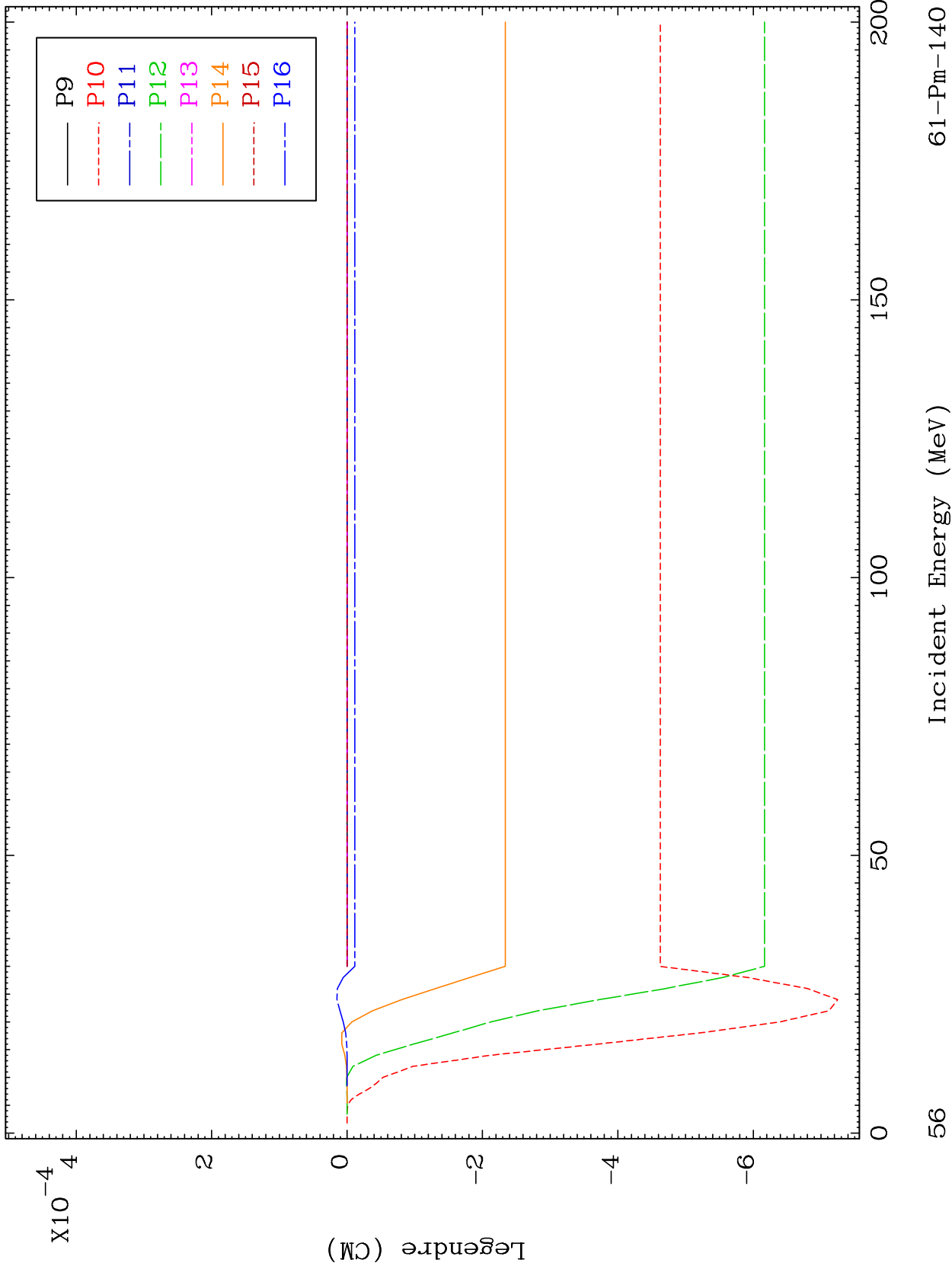
61-Pm-140



MAT 6128

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

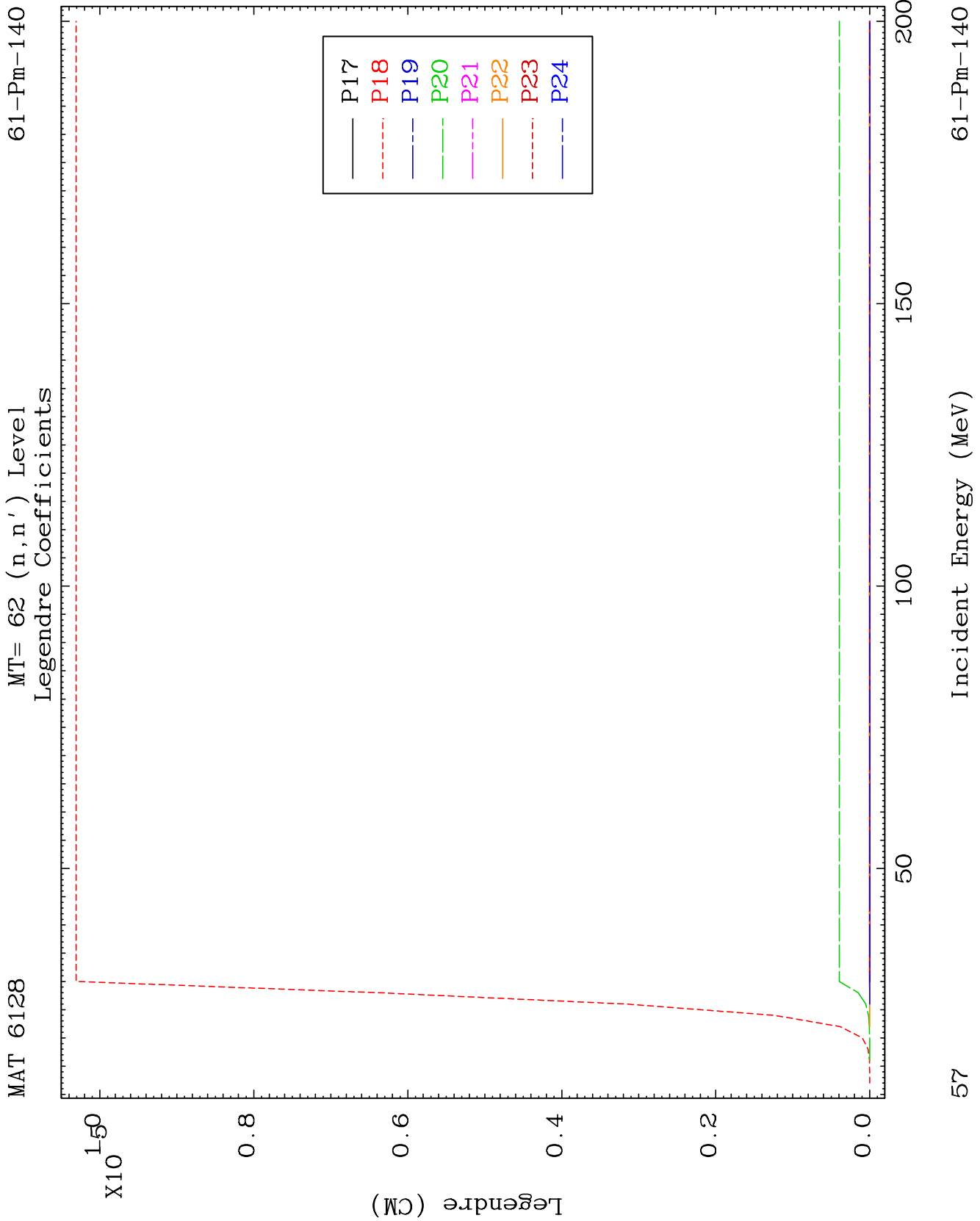
61-Pm-140



61-Pm-140

Incident Energy (MeV)

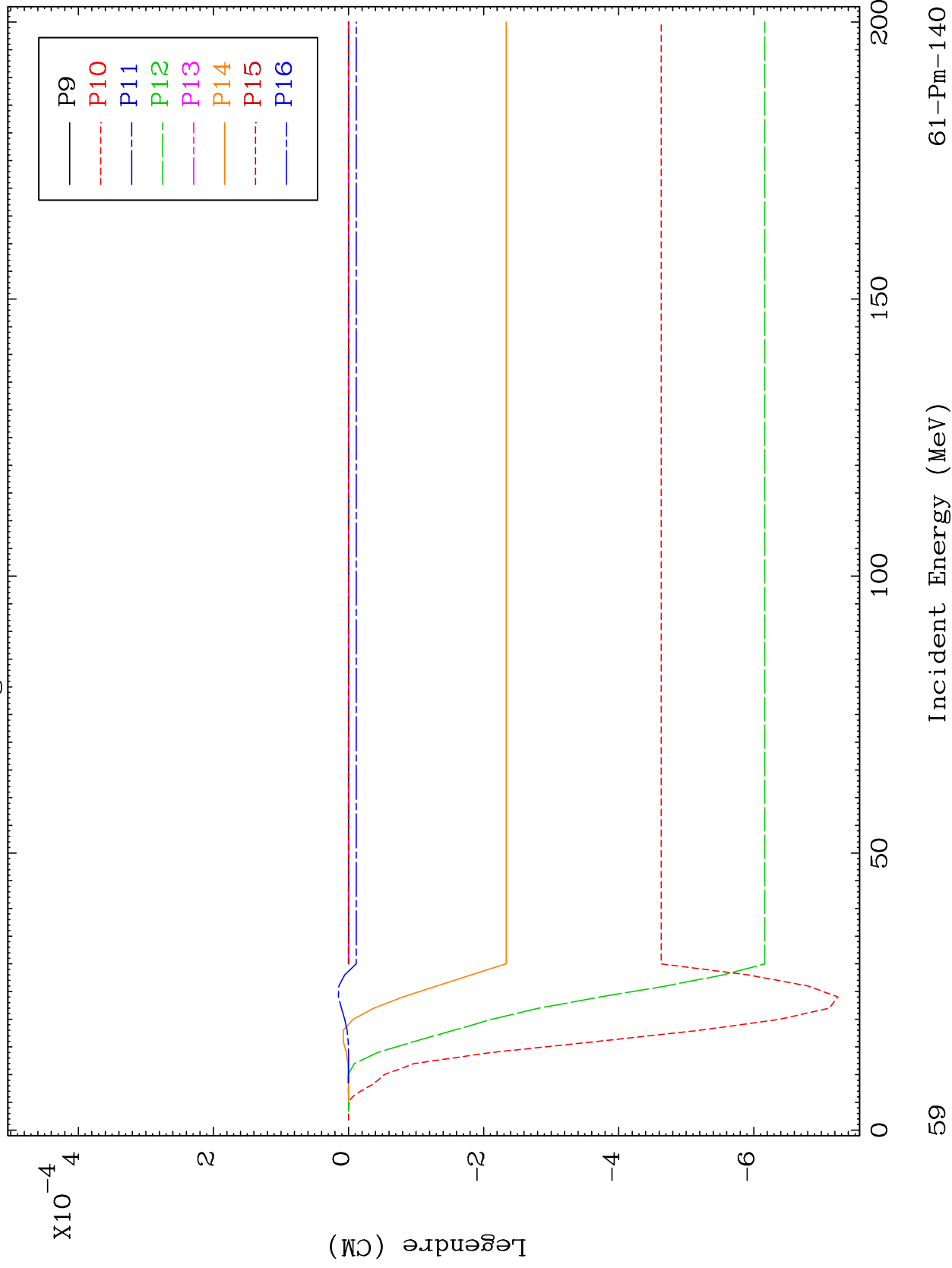
56



MAT 6128

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

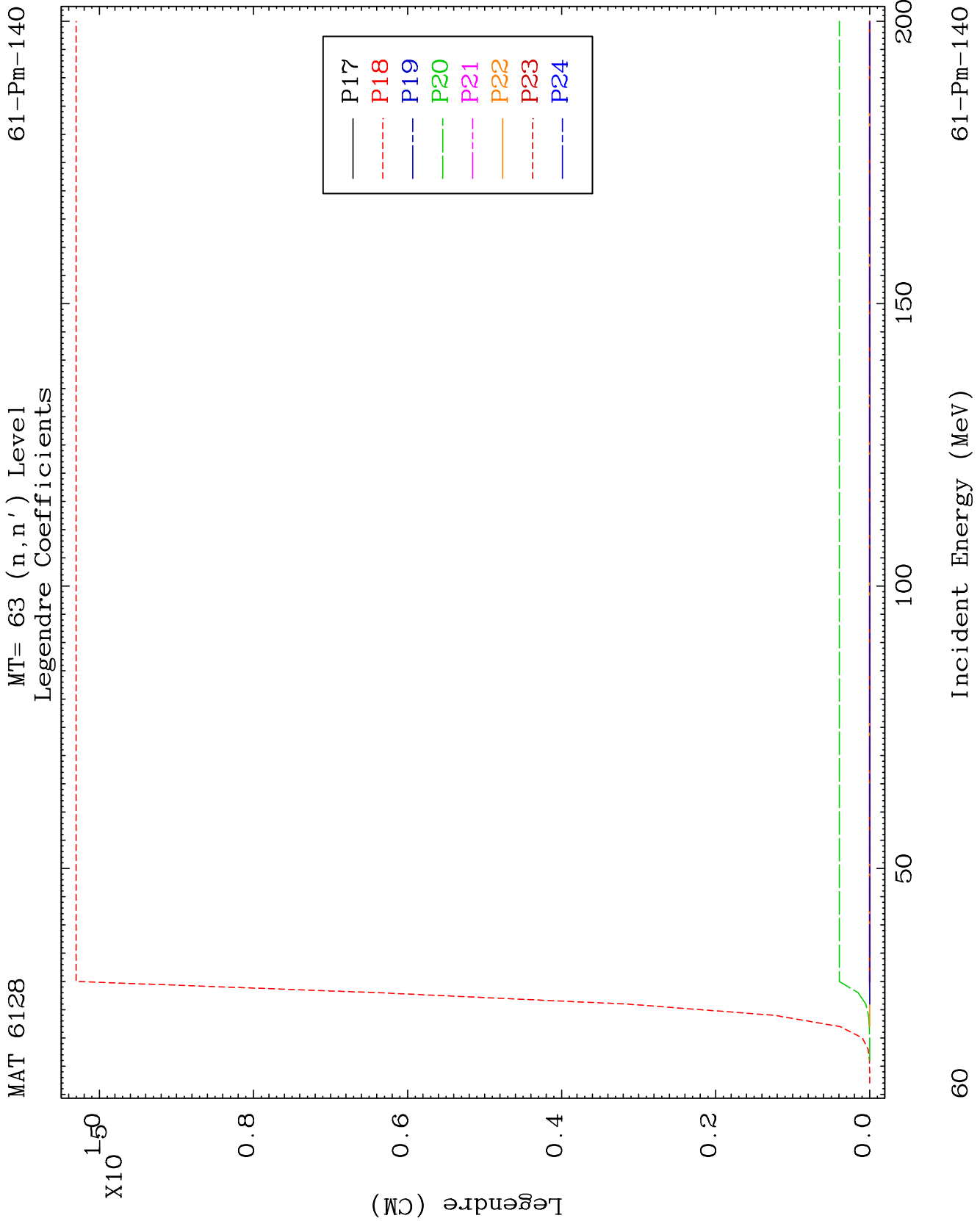
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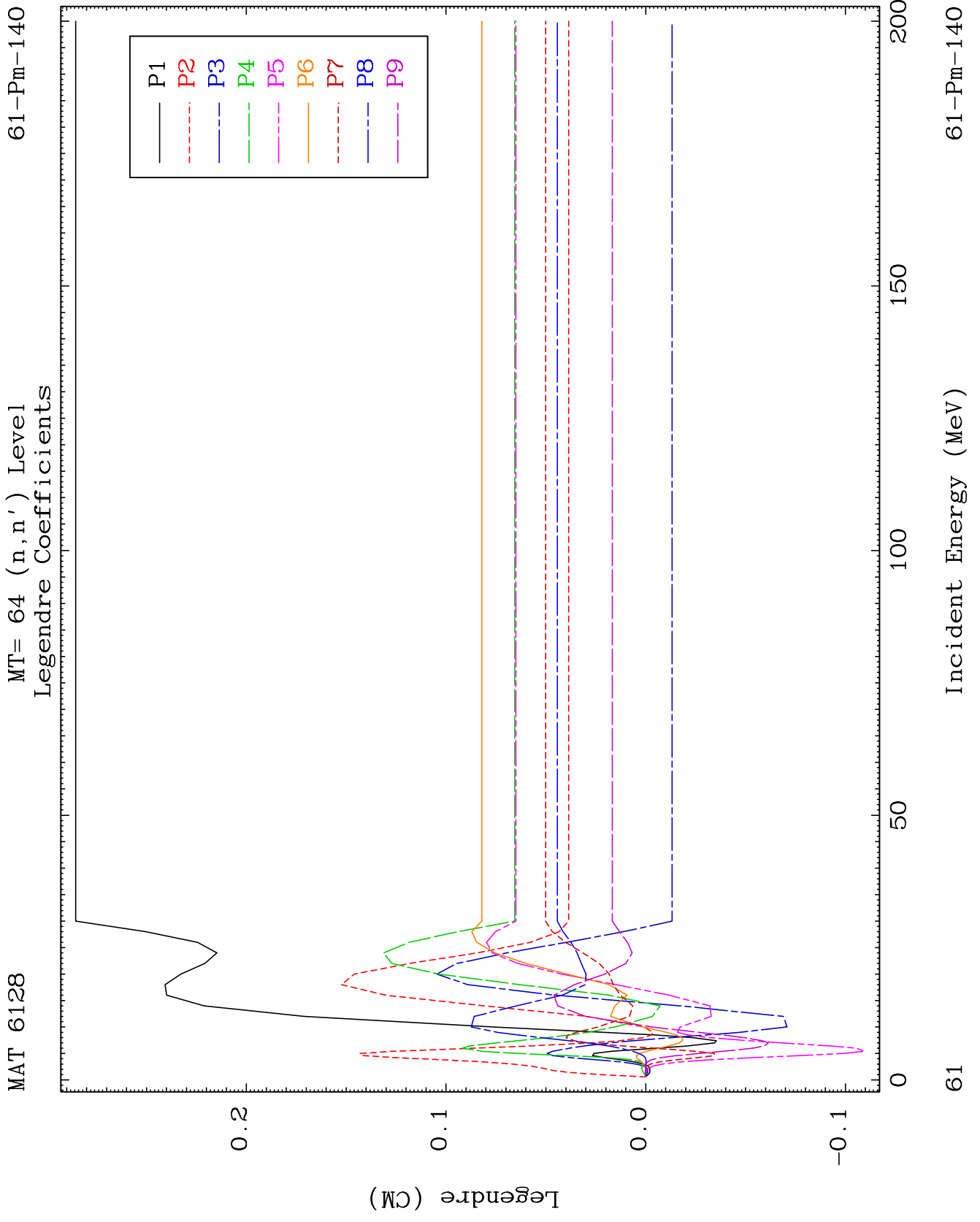


59

Incident Energy (MeV)

61-Pm-140

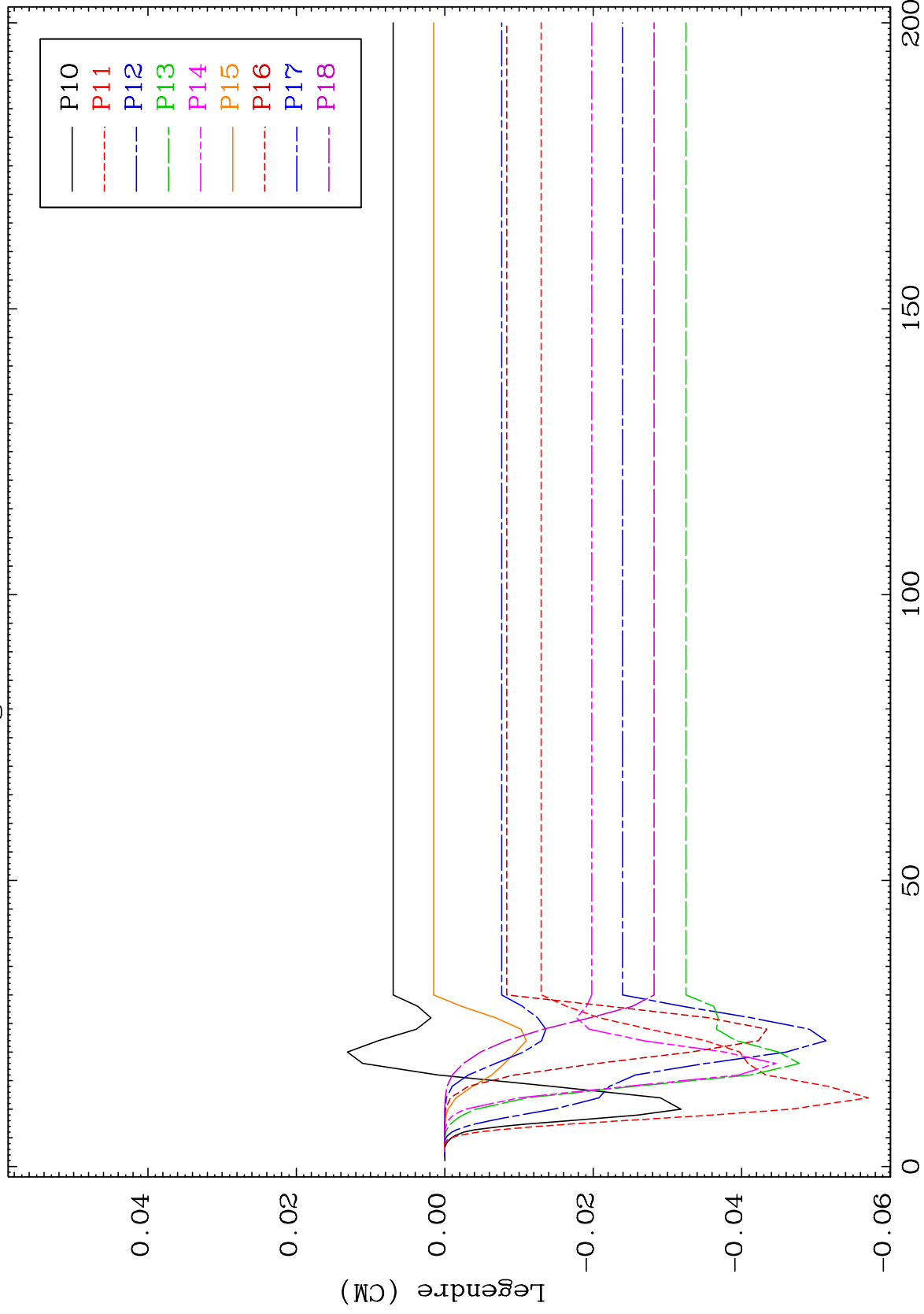




MAT 6128

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

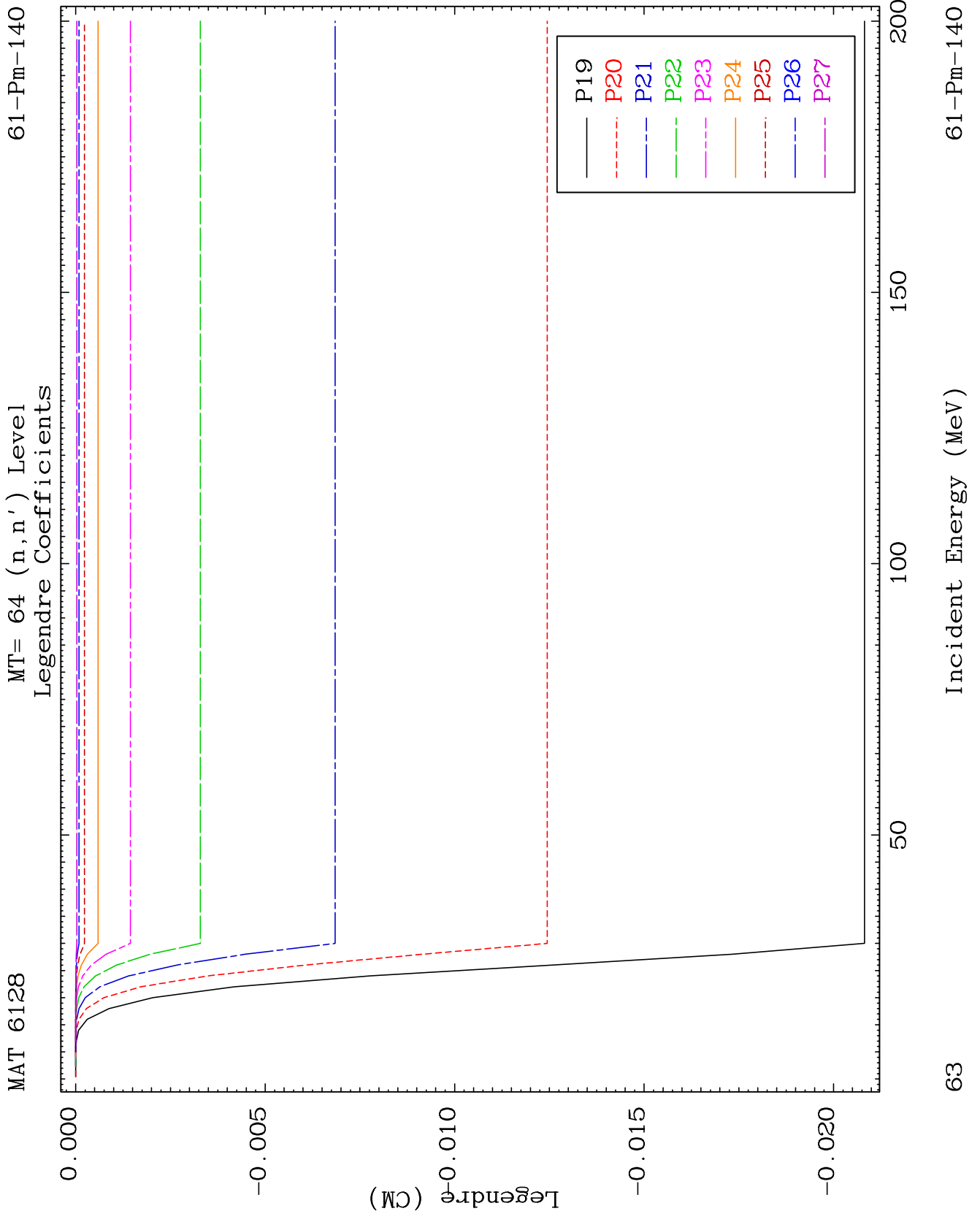
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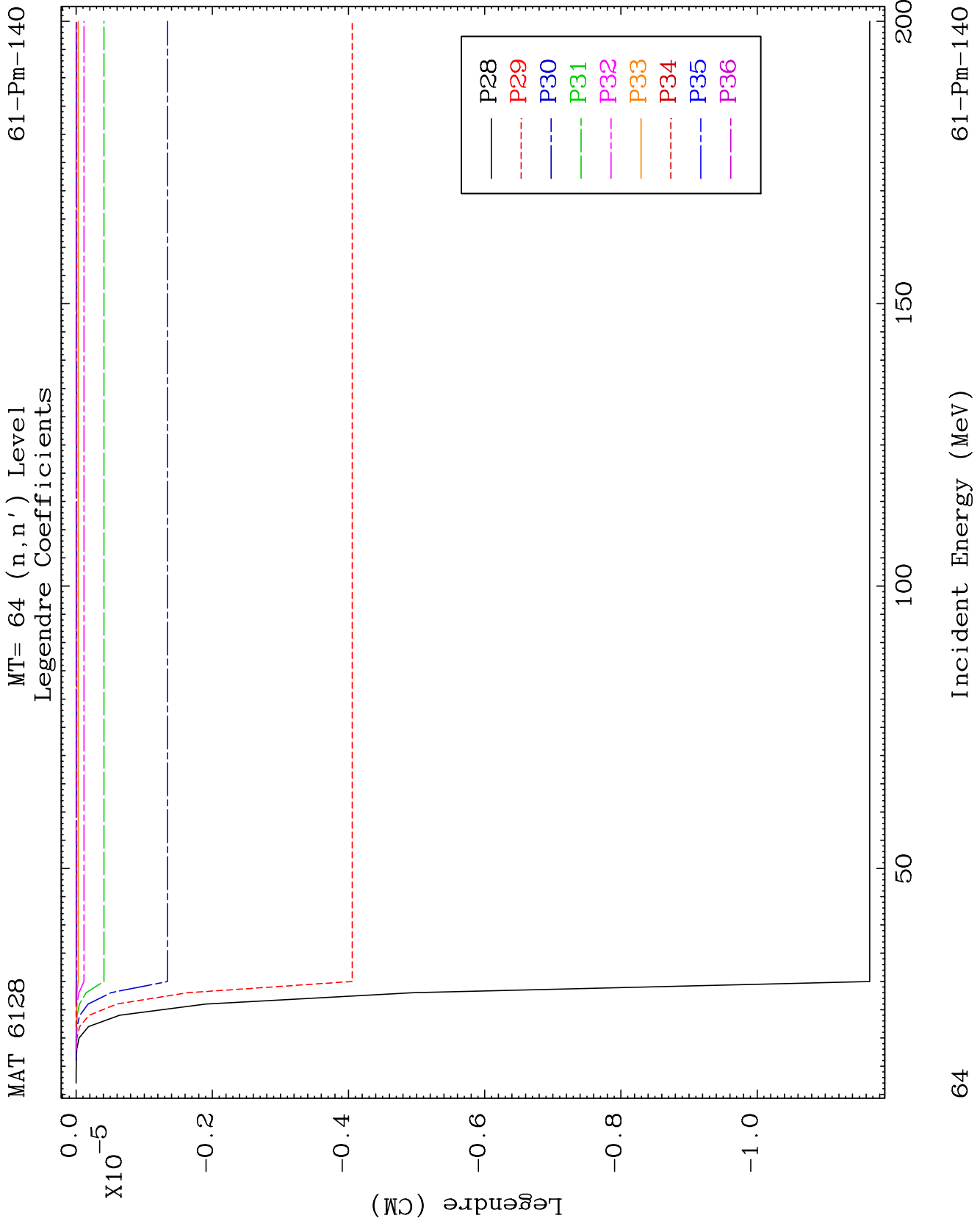


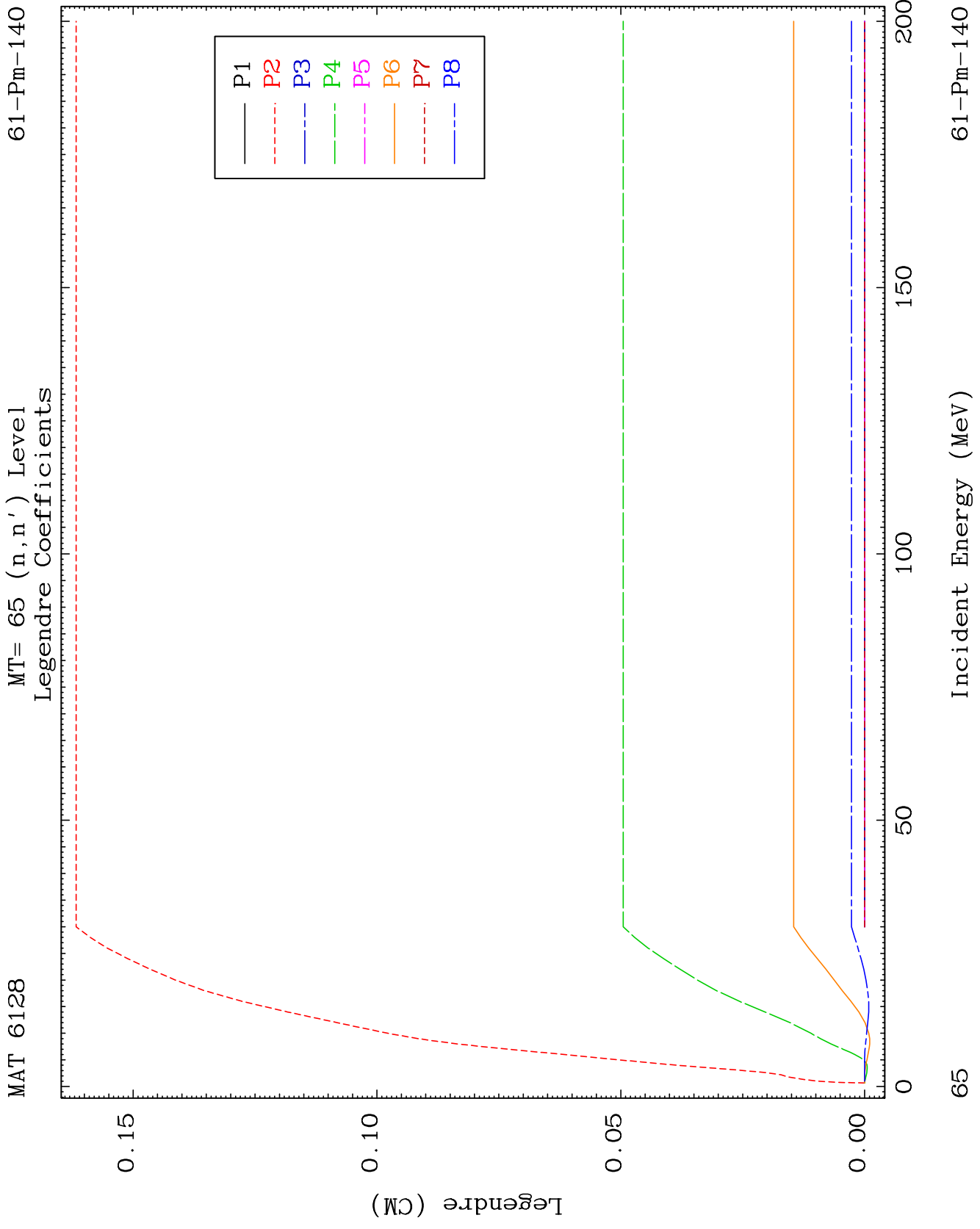
62

Incident Energy (MeV)

61-Pm-140



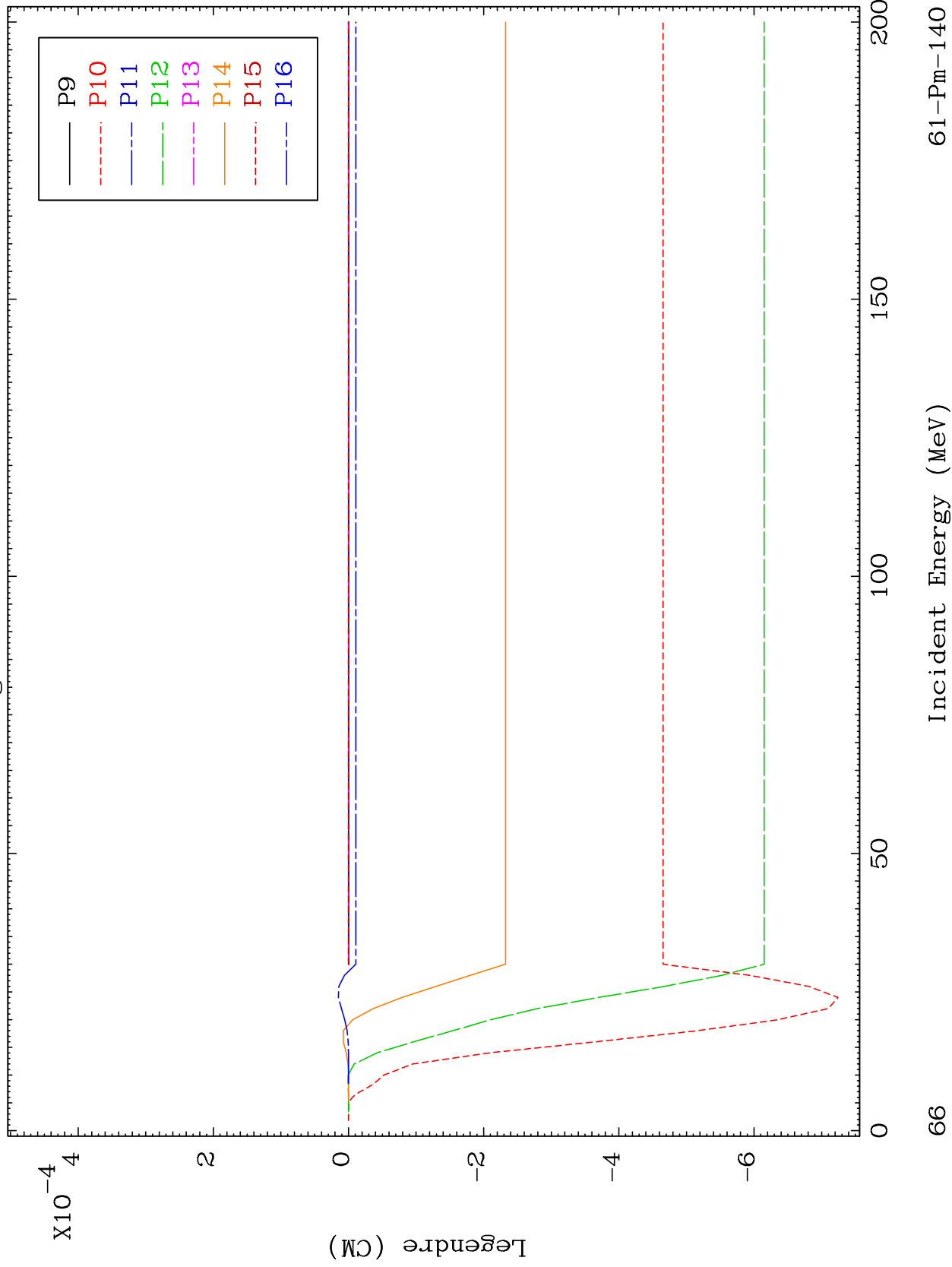




MAT 6128

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

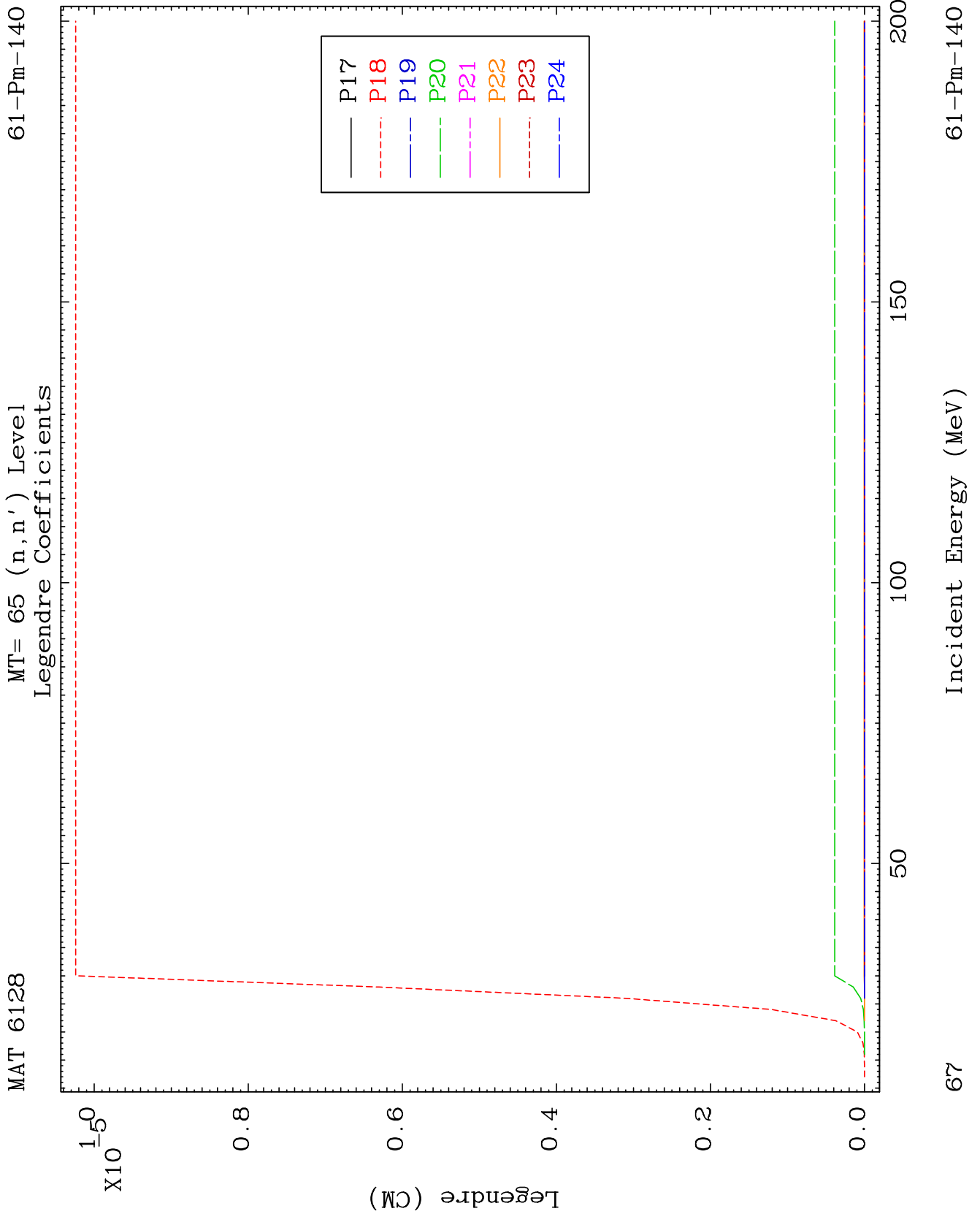
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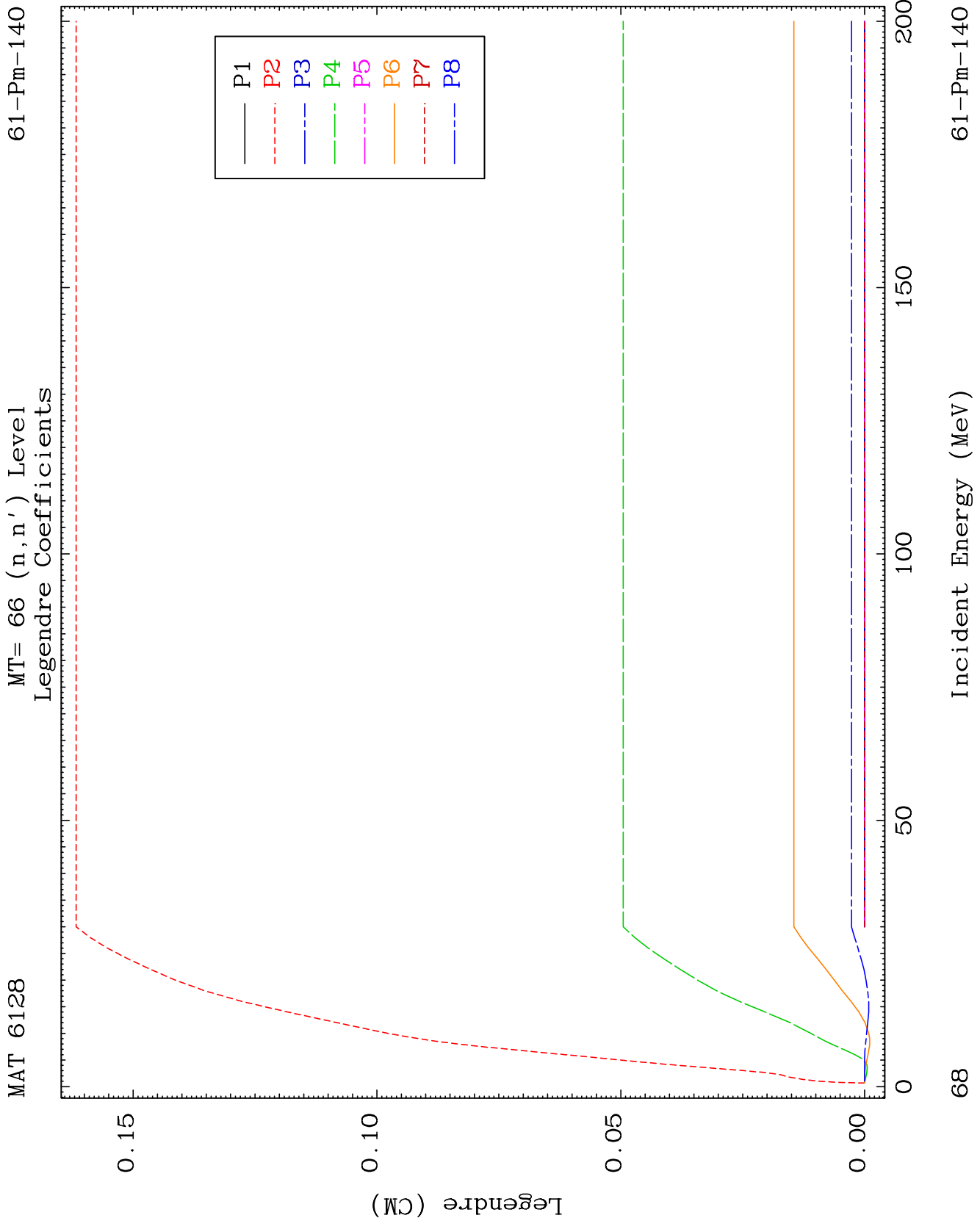


66

Incident Energy (MeV)

61-Pm-140

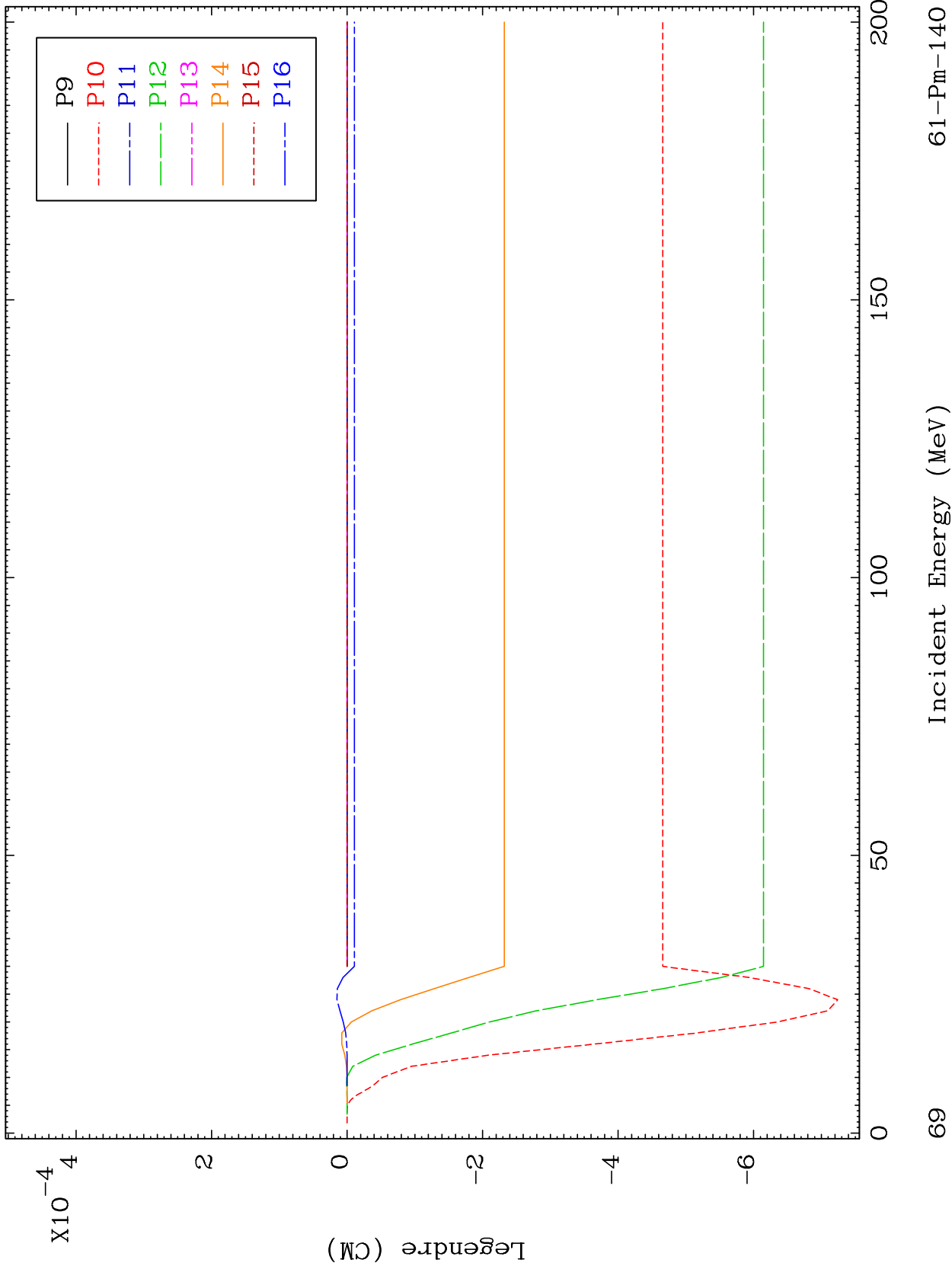




MAT 6128

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

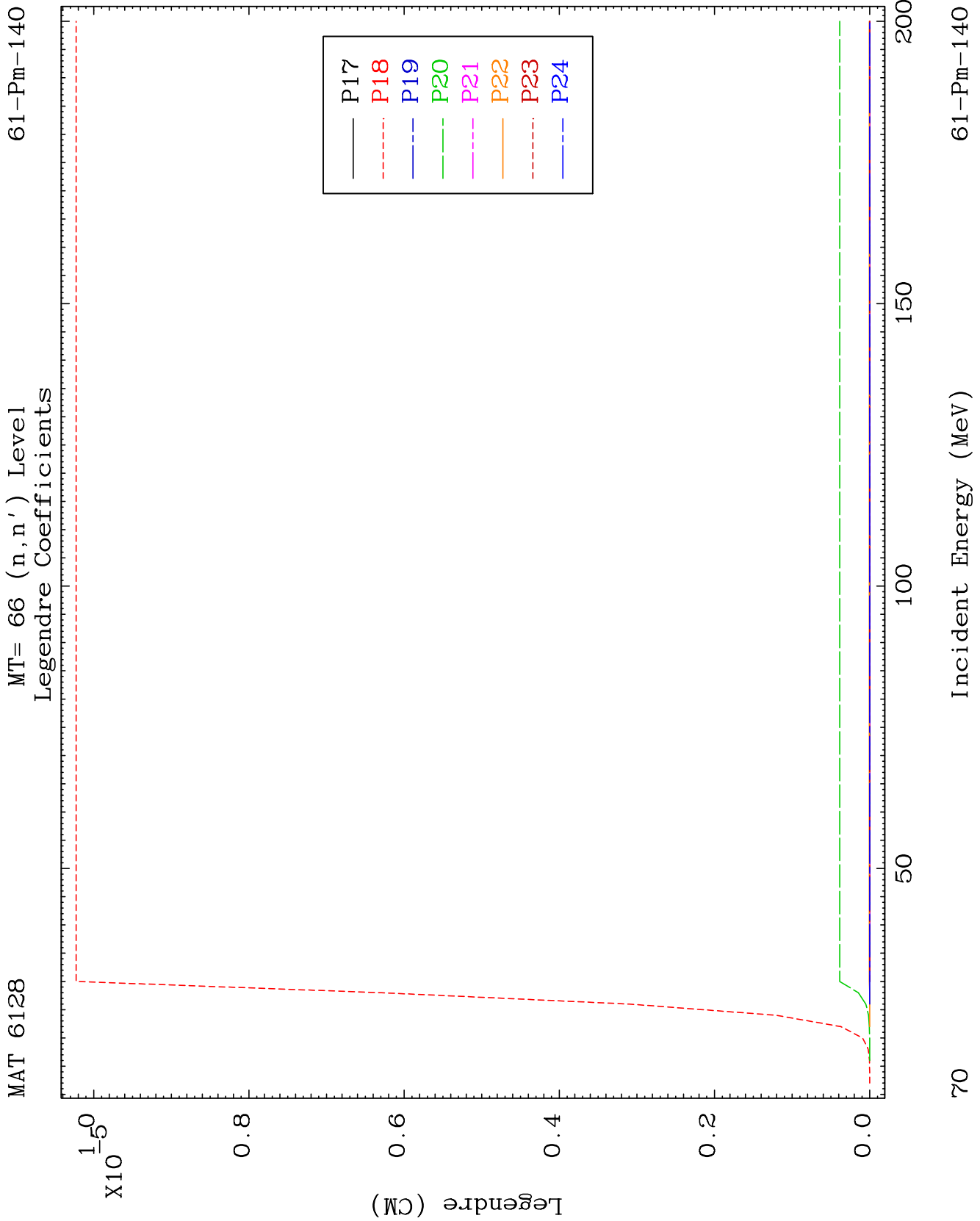
61-Pm-140



69

Incident Energy (MeV)

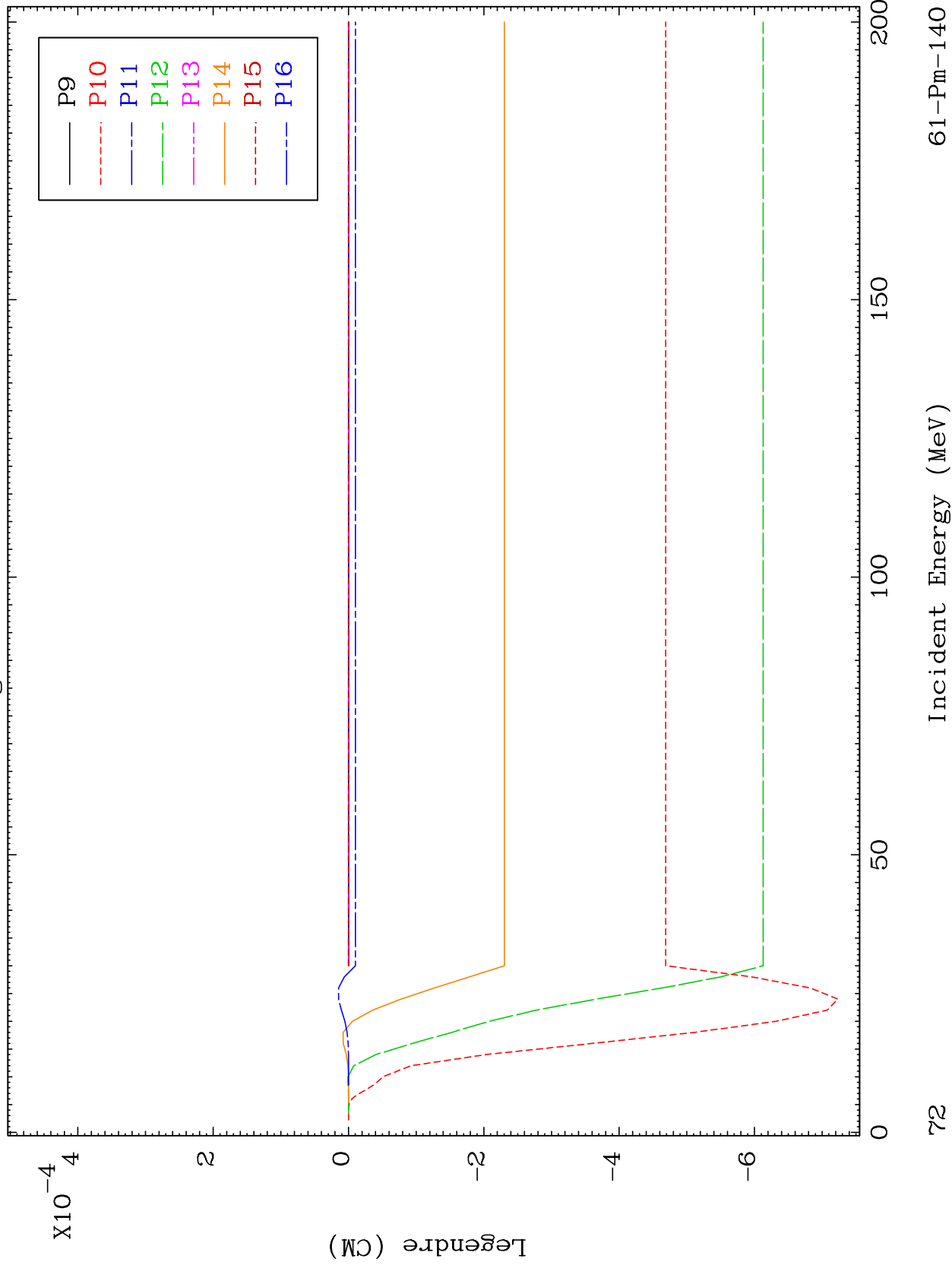
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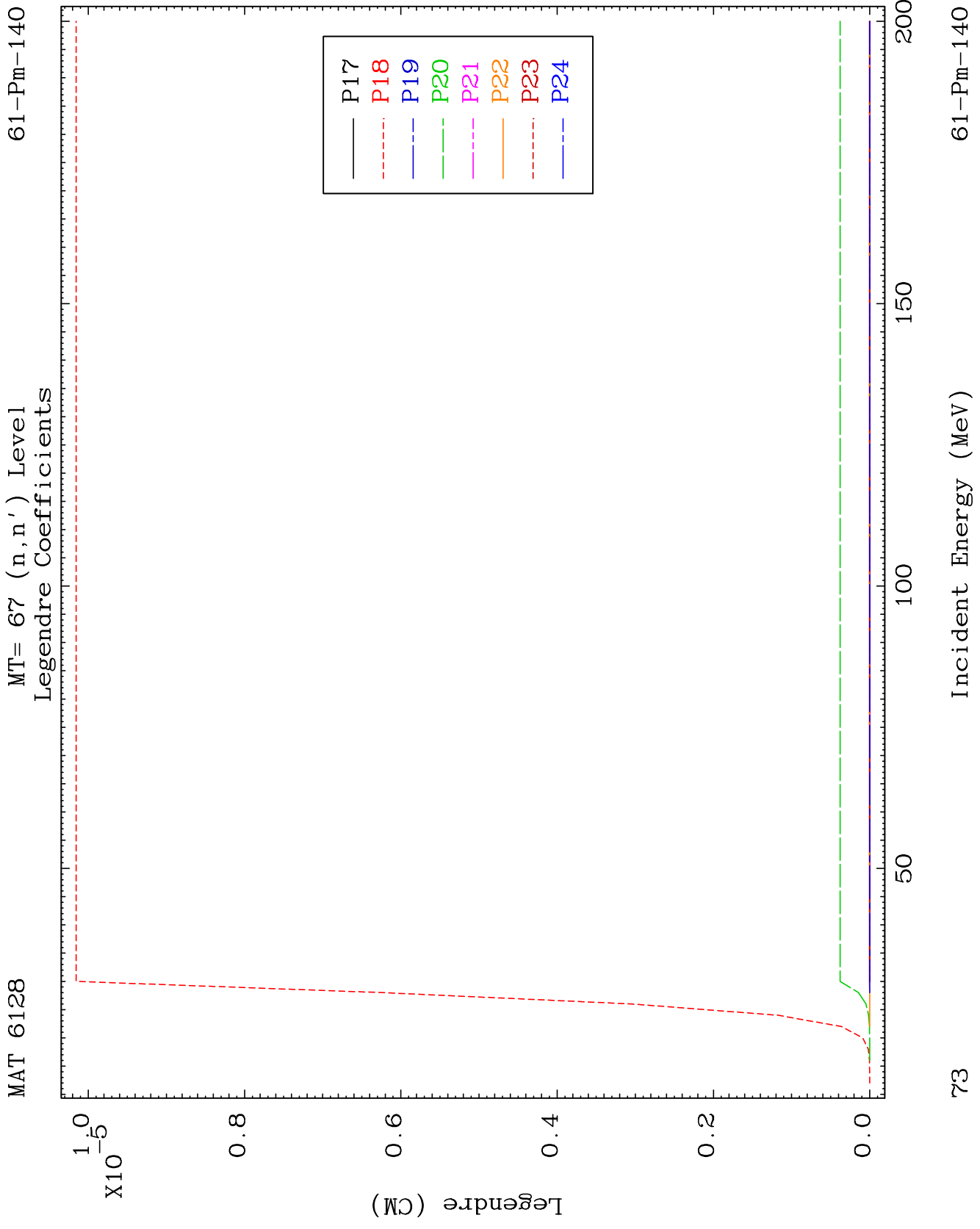


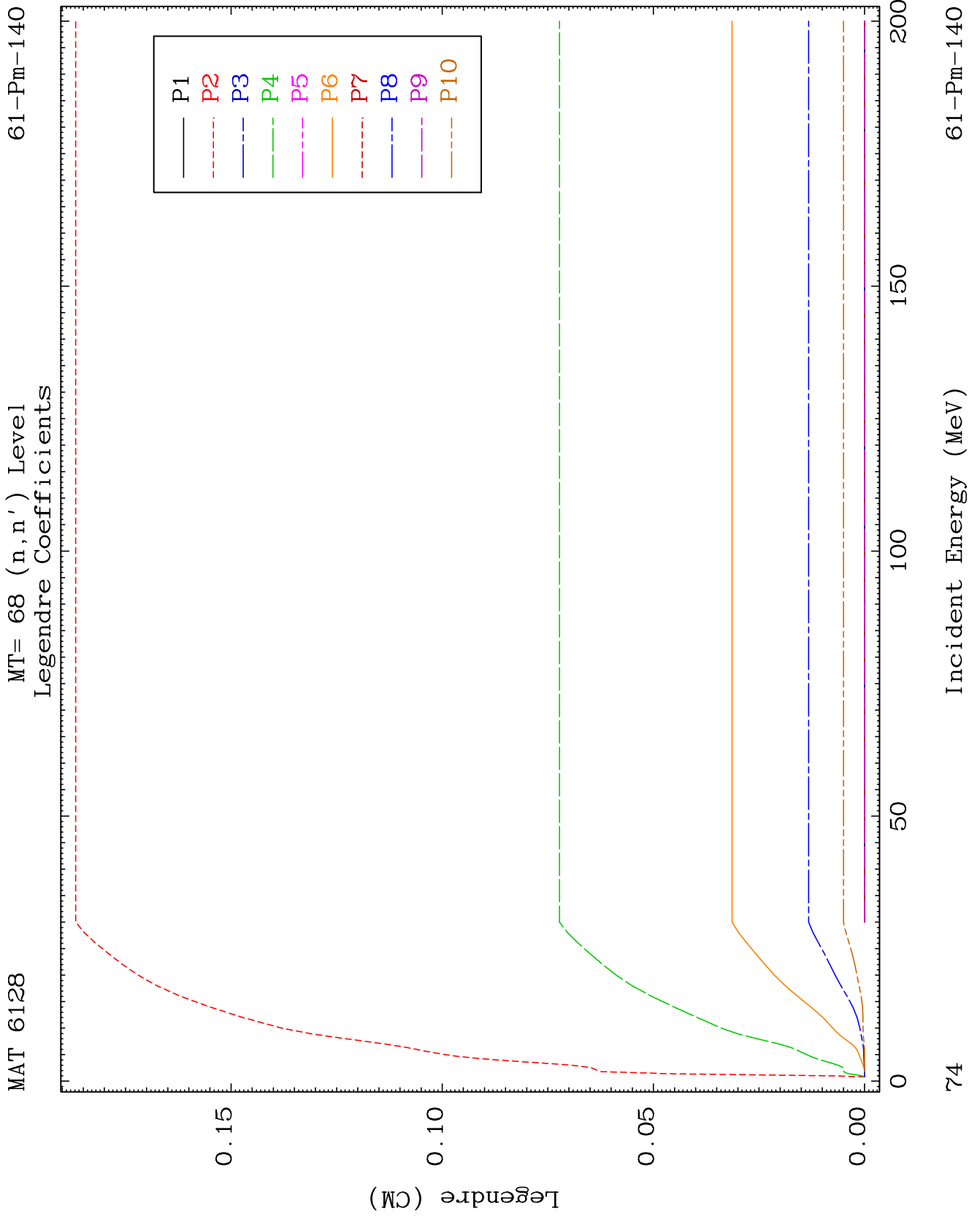
MAT 6128

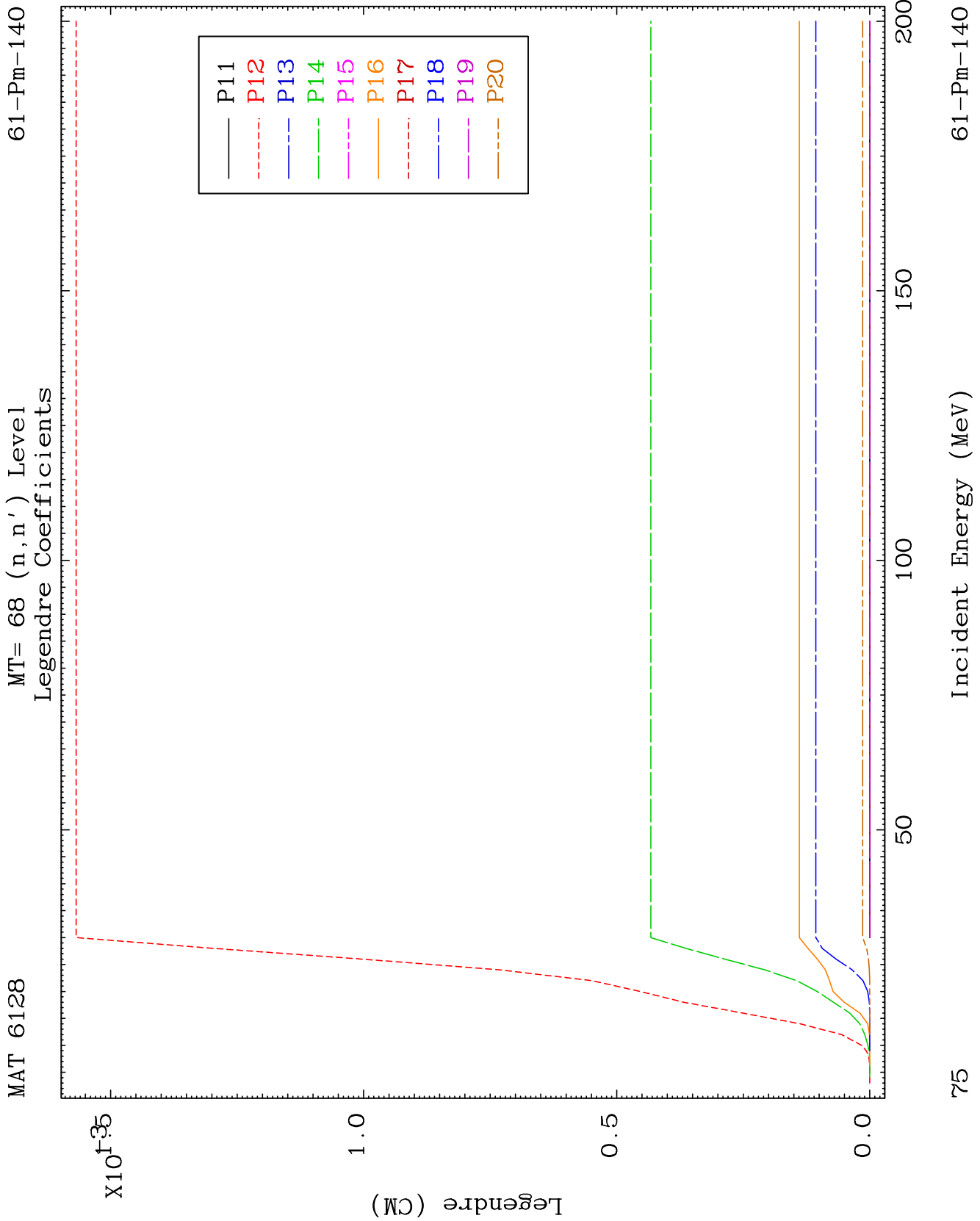
MT= 67 (n,n') Level
Legendre Coefficients

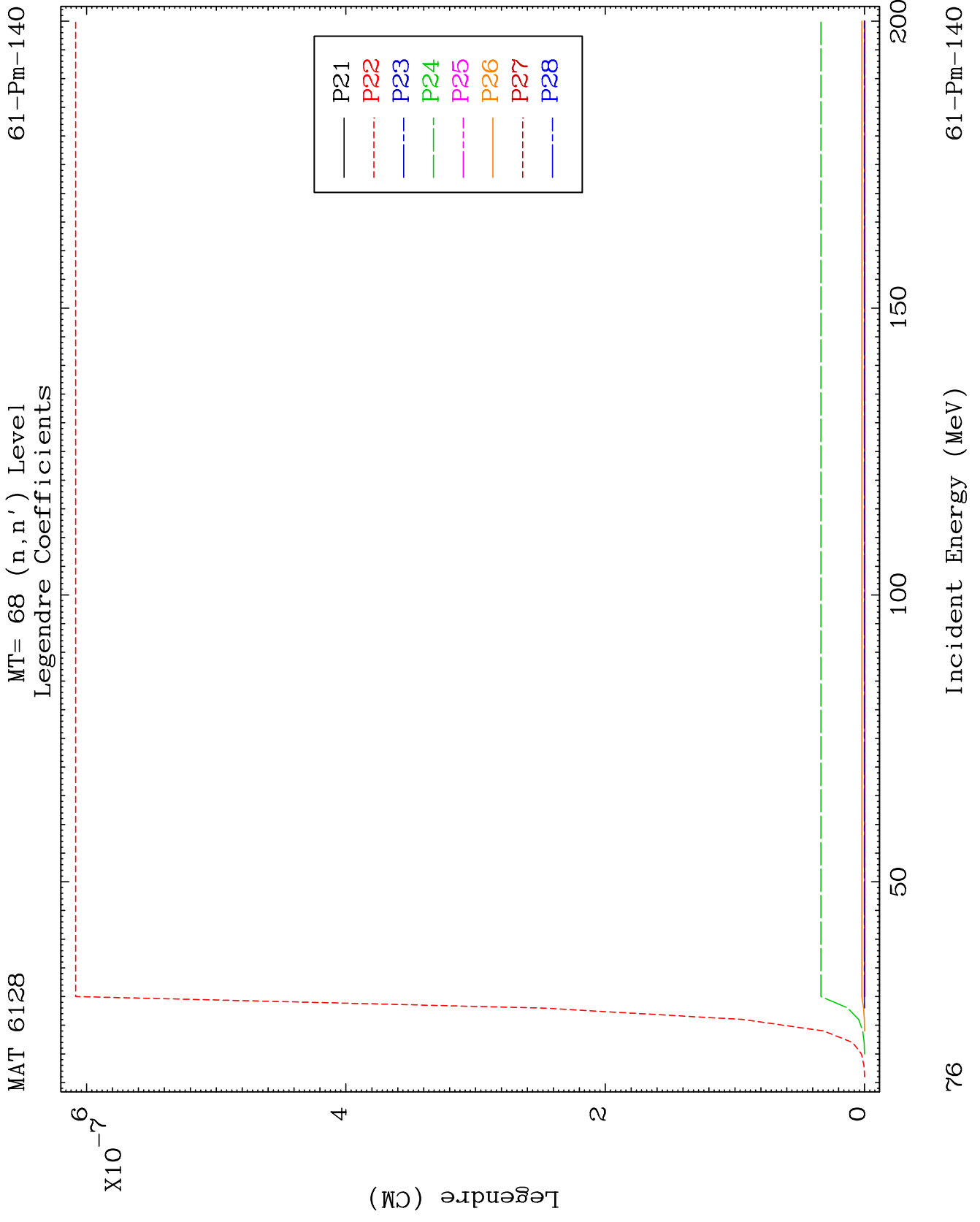
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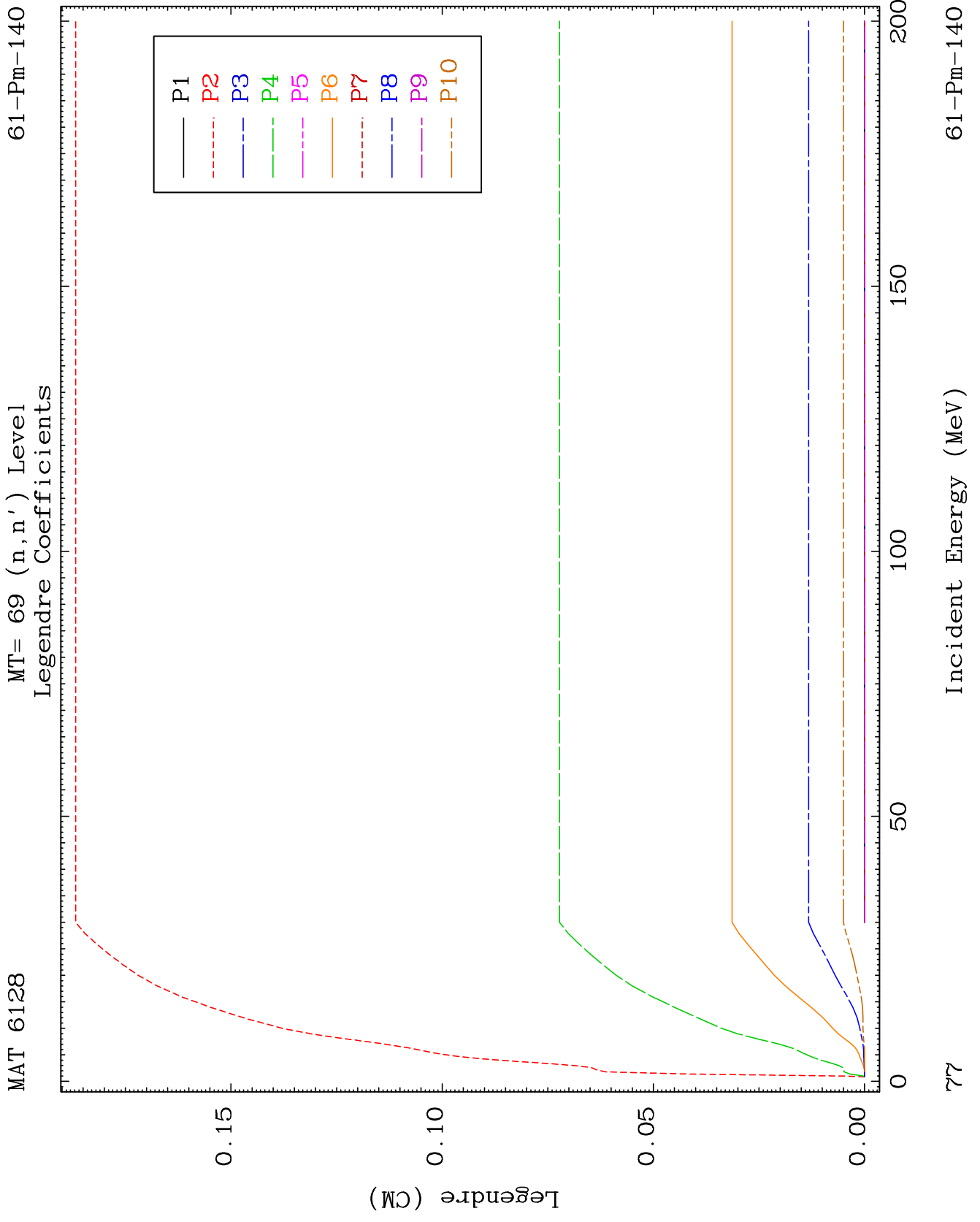








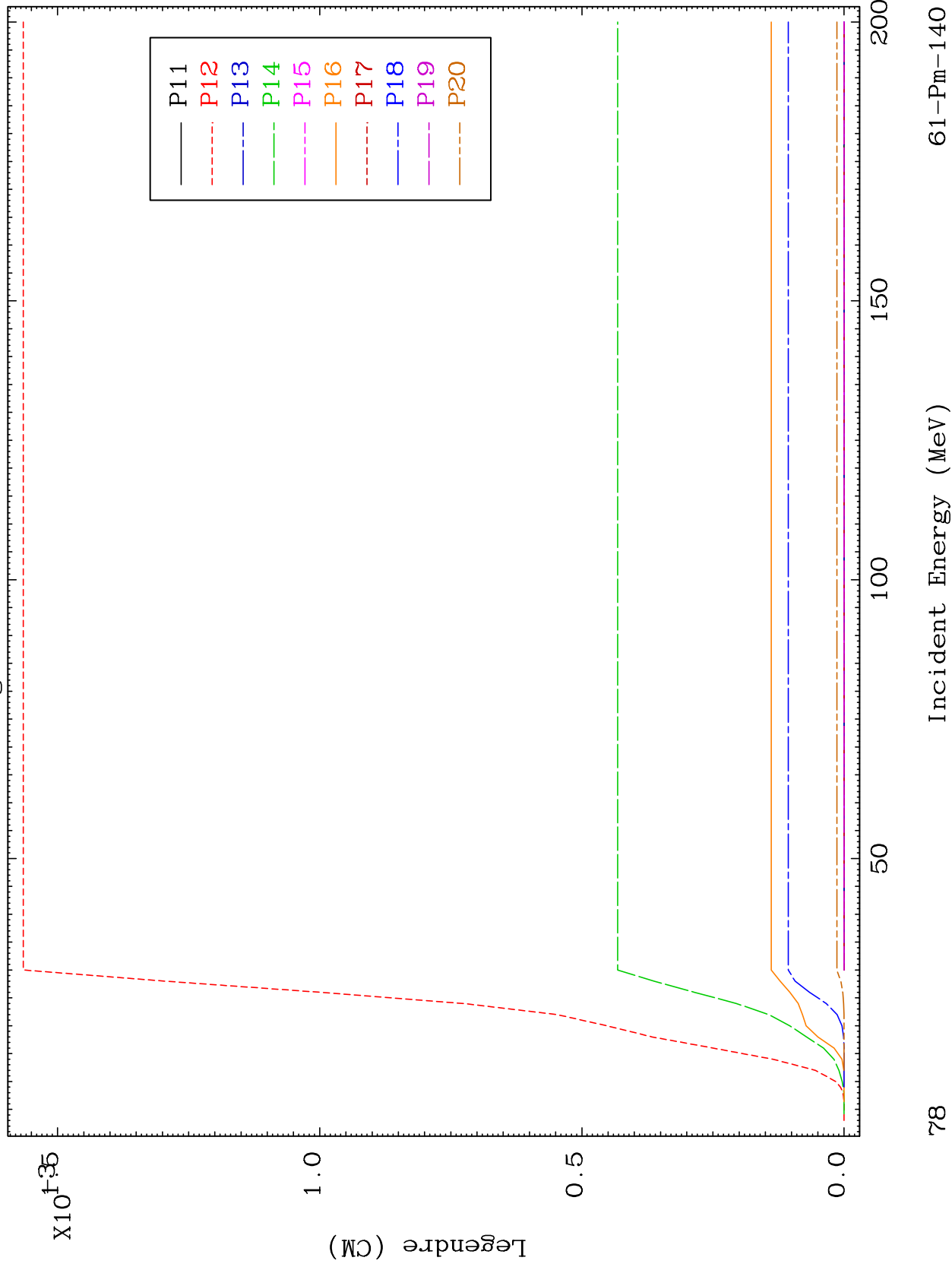




MAT 6128

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

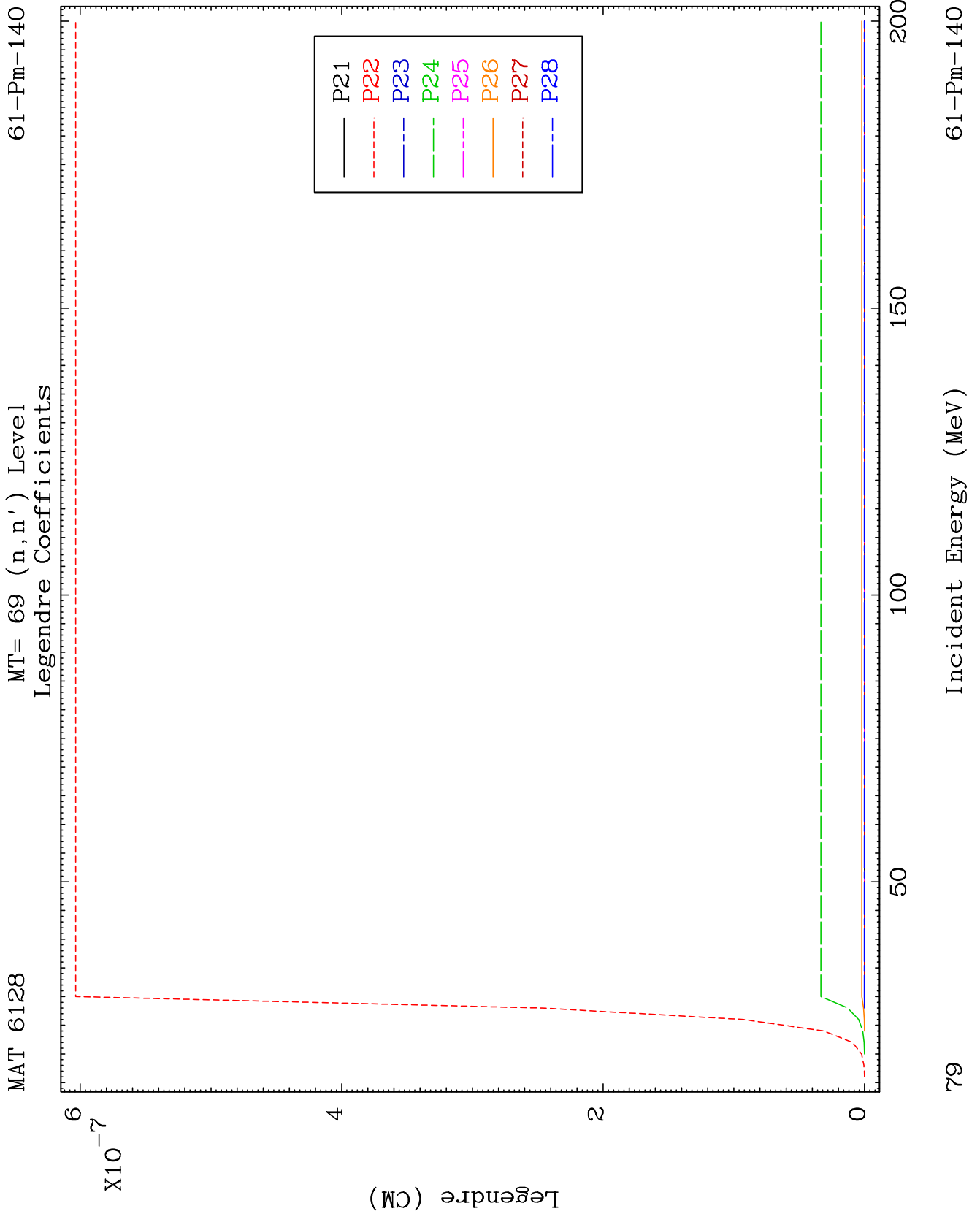
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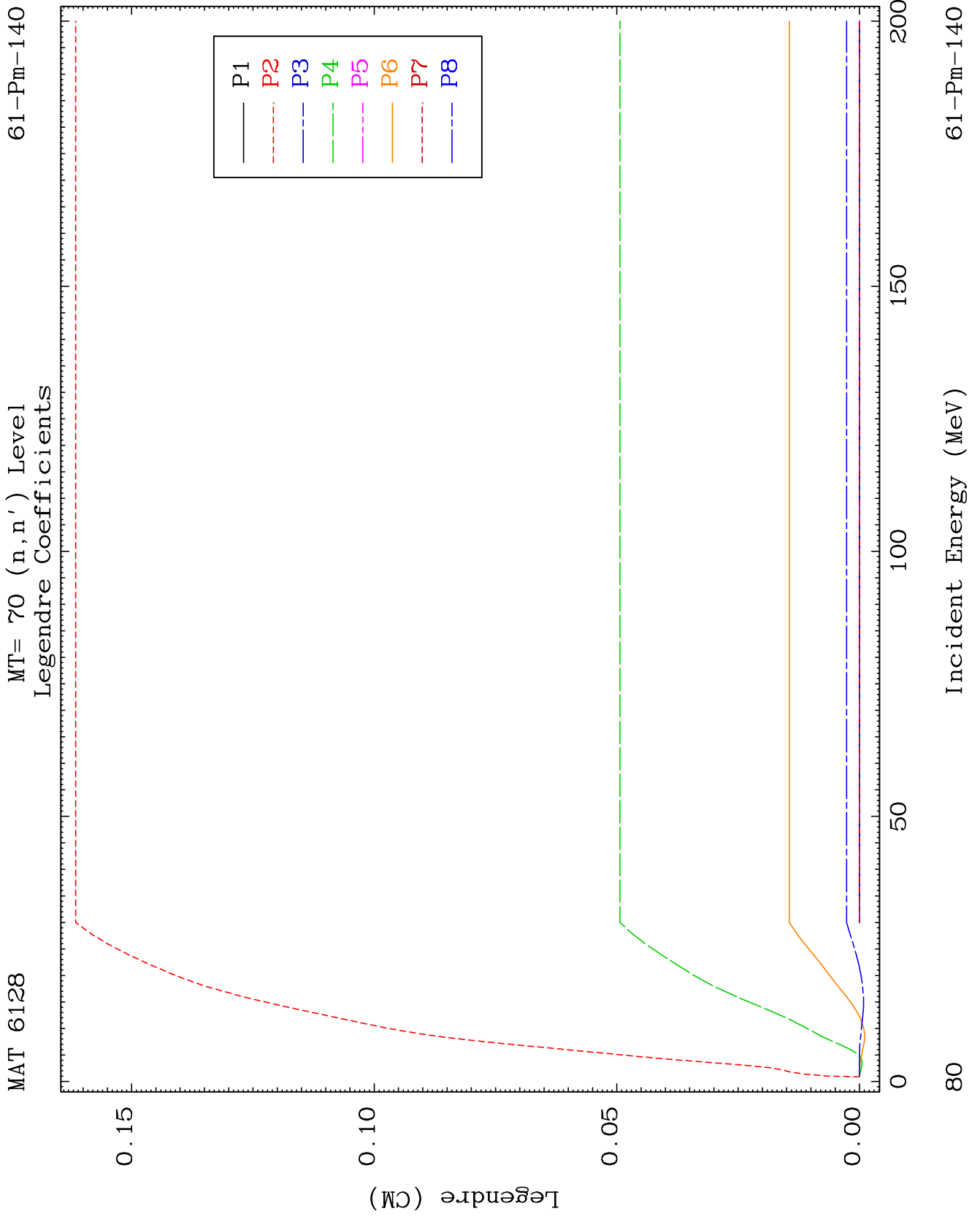


78

Incident Energy (MeV)

61-Pm-140

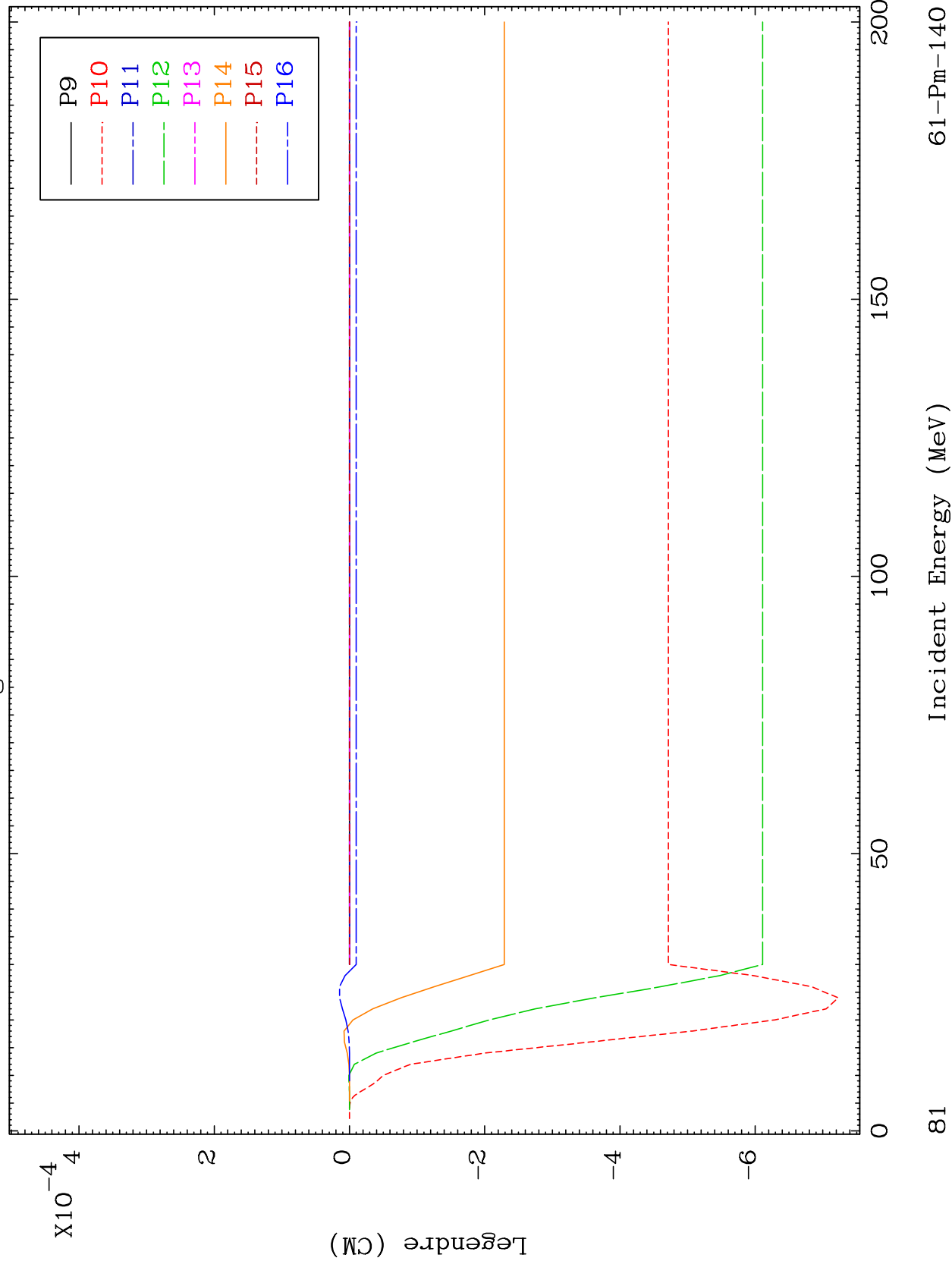




MAT 6128

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

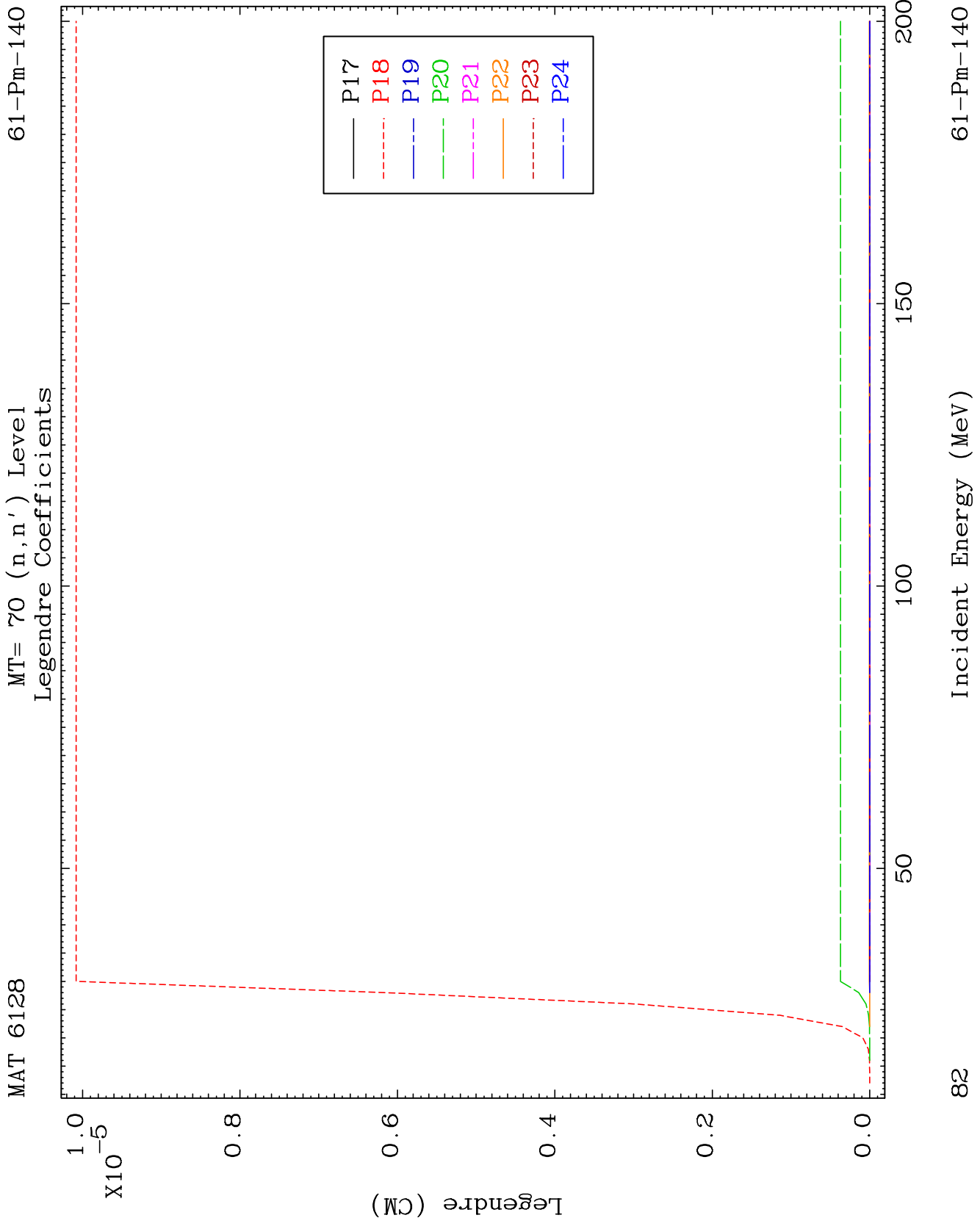
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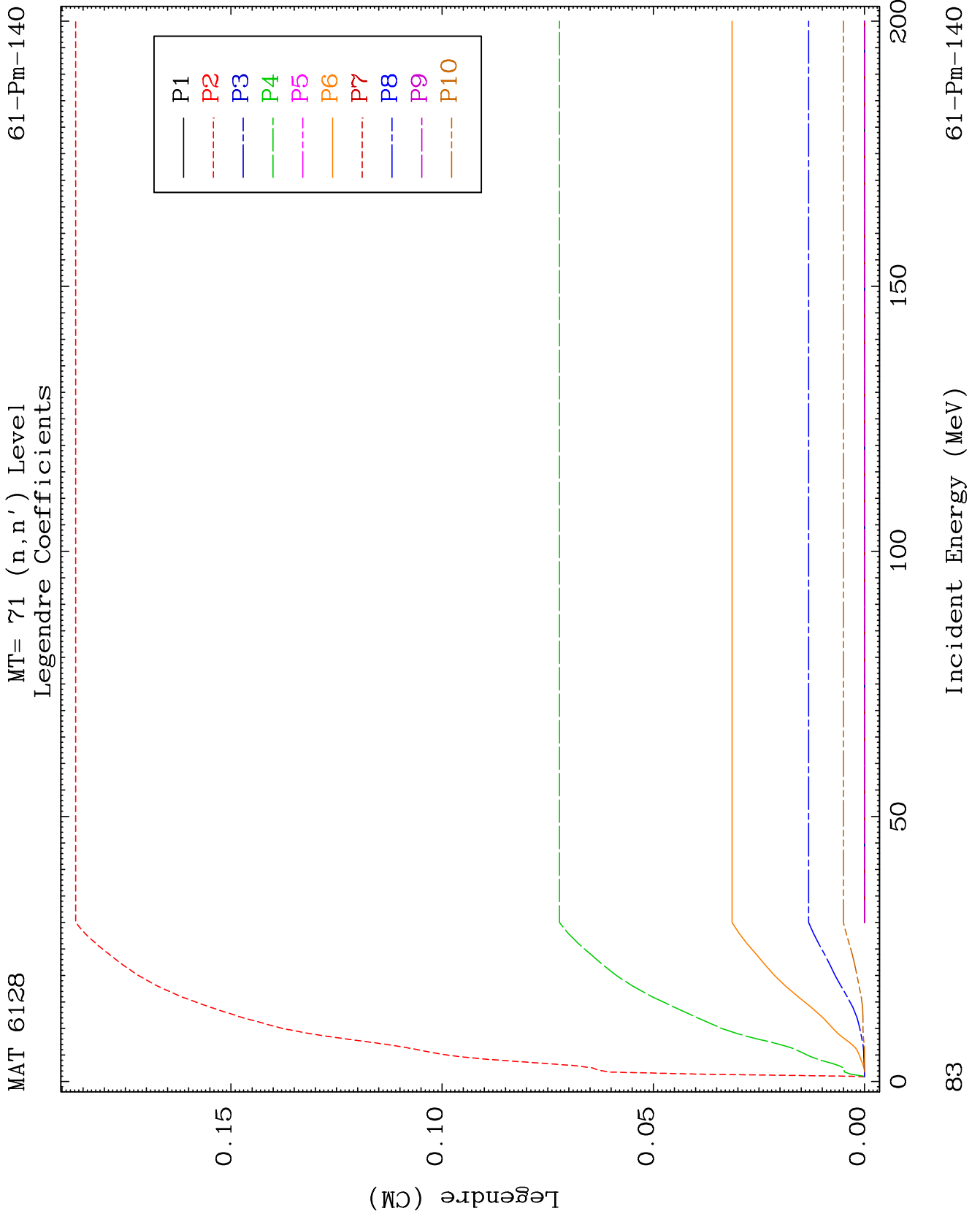


81

Incident Energy (MeV)

61-Pm-140

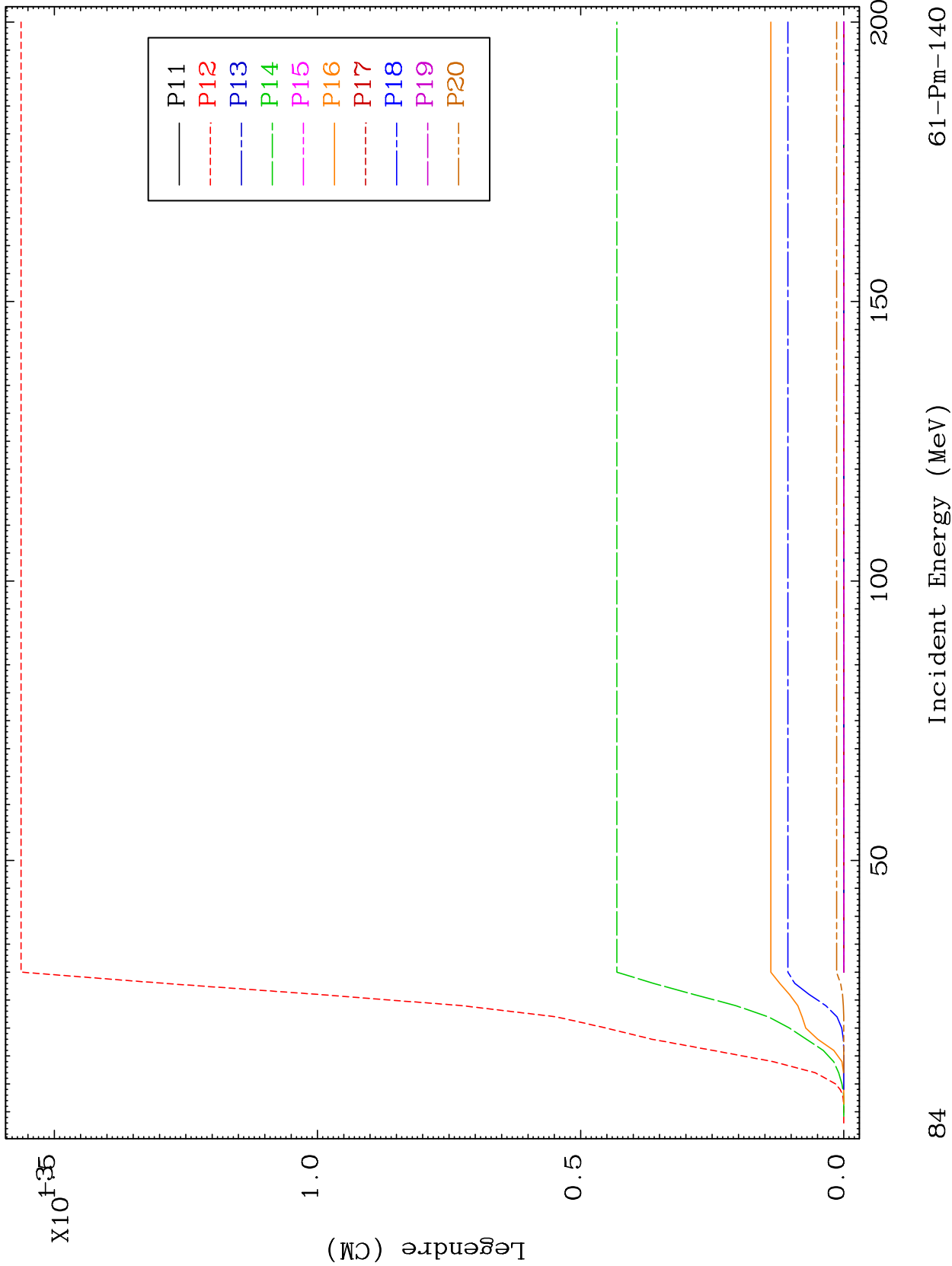




MAT 6128

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

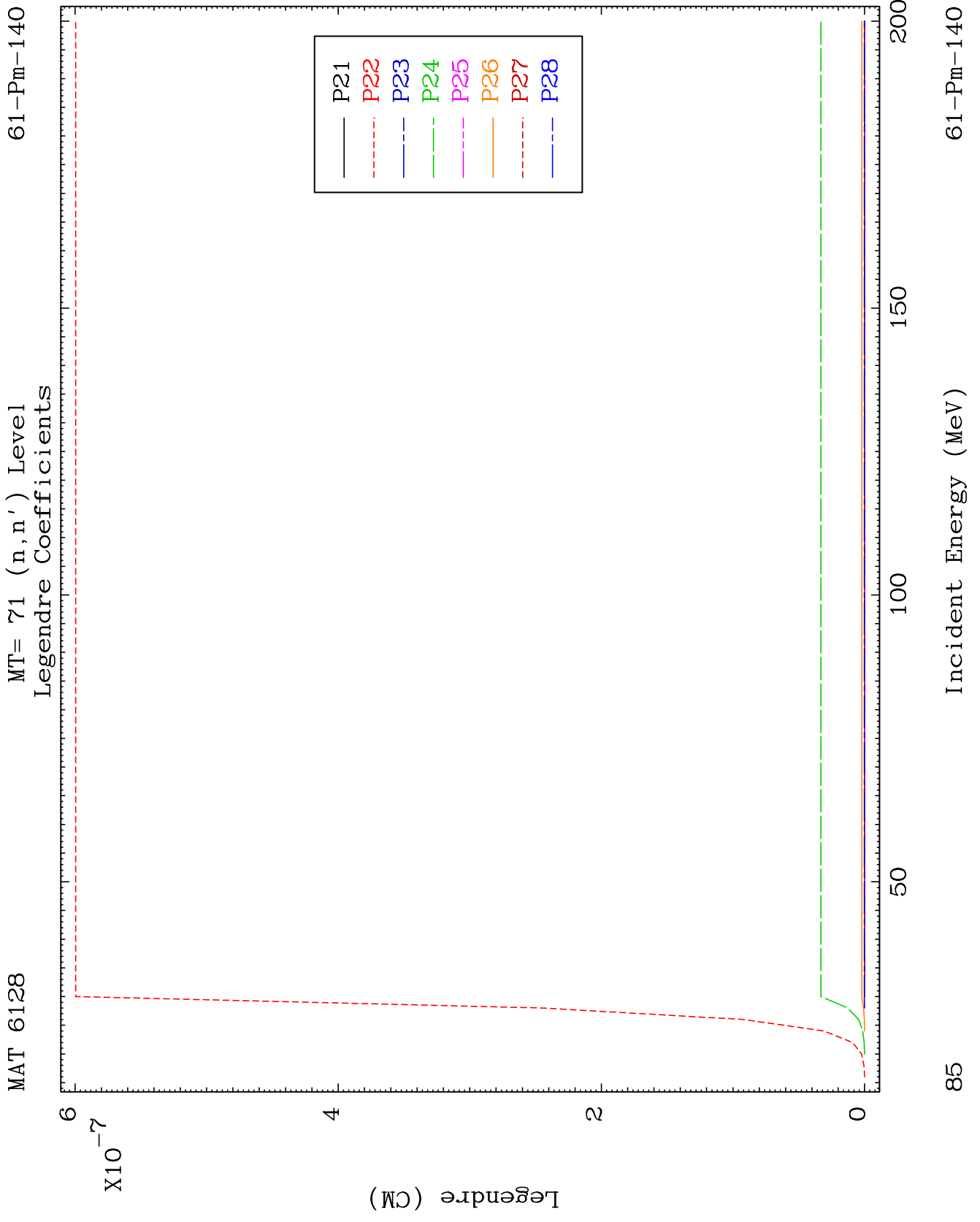
61-Pm-140



84

Incident Energy (MeV)

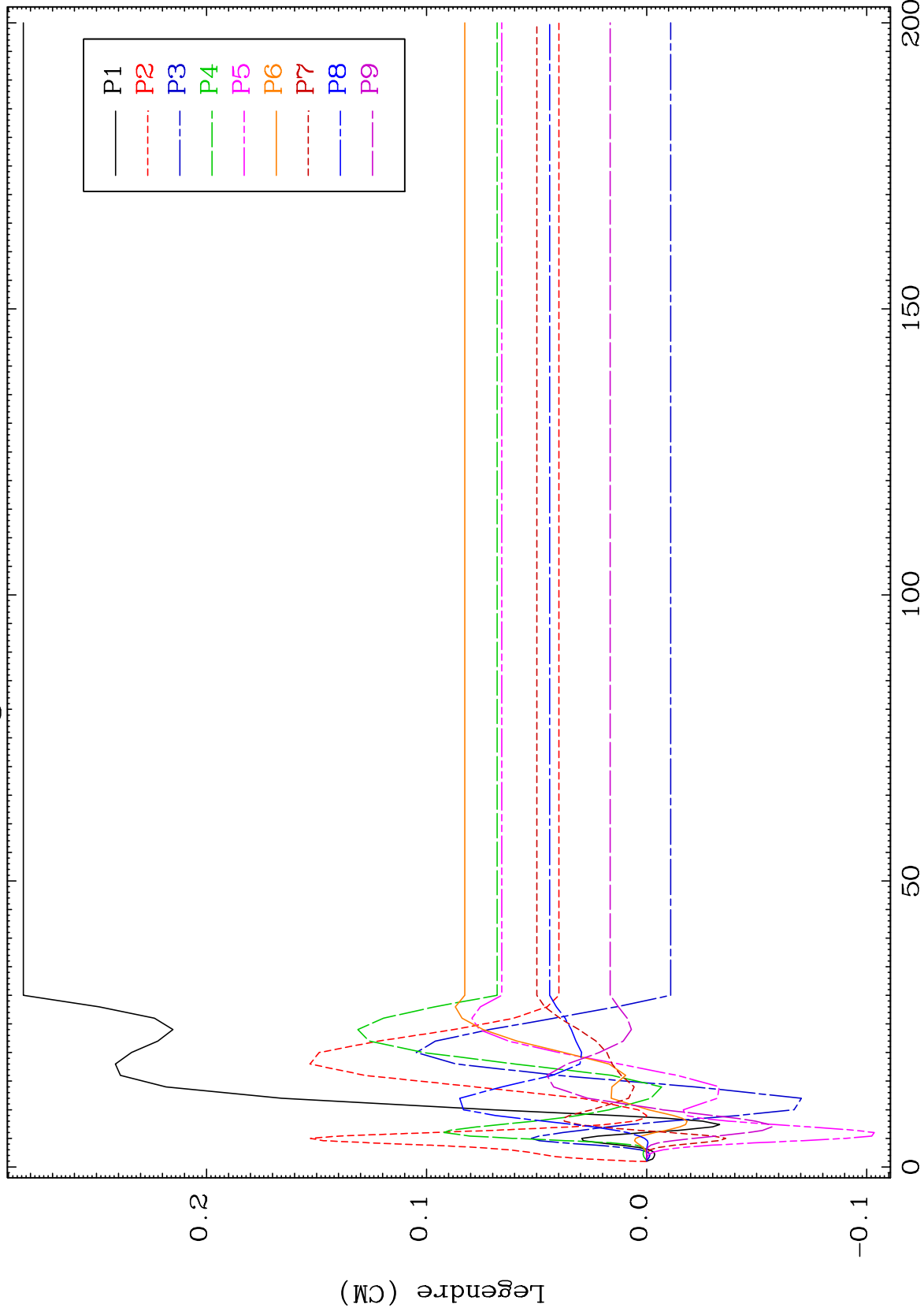
61-Pm-140



MAT 6128

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

61-Pm-140



86

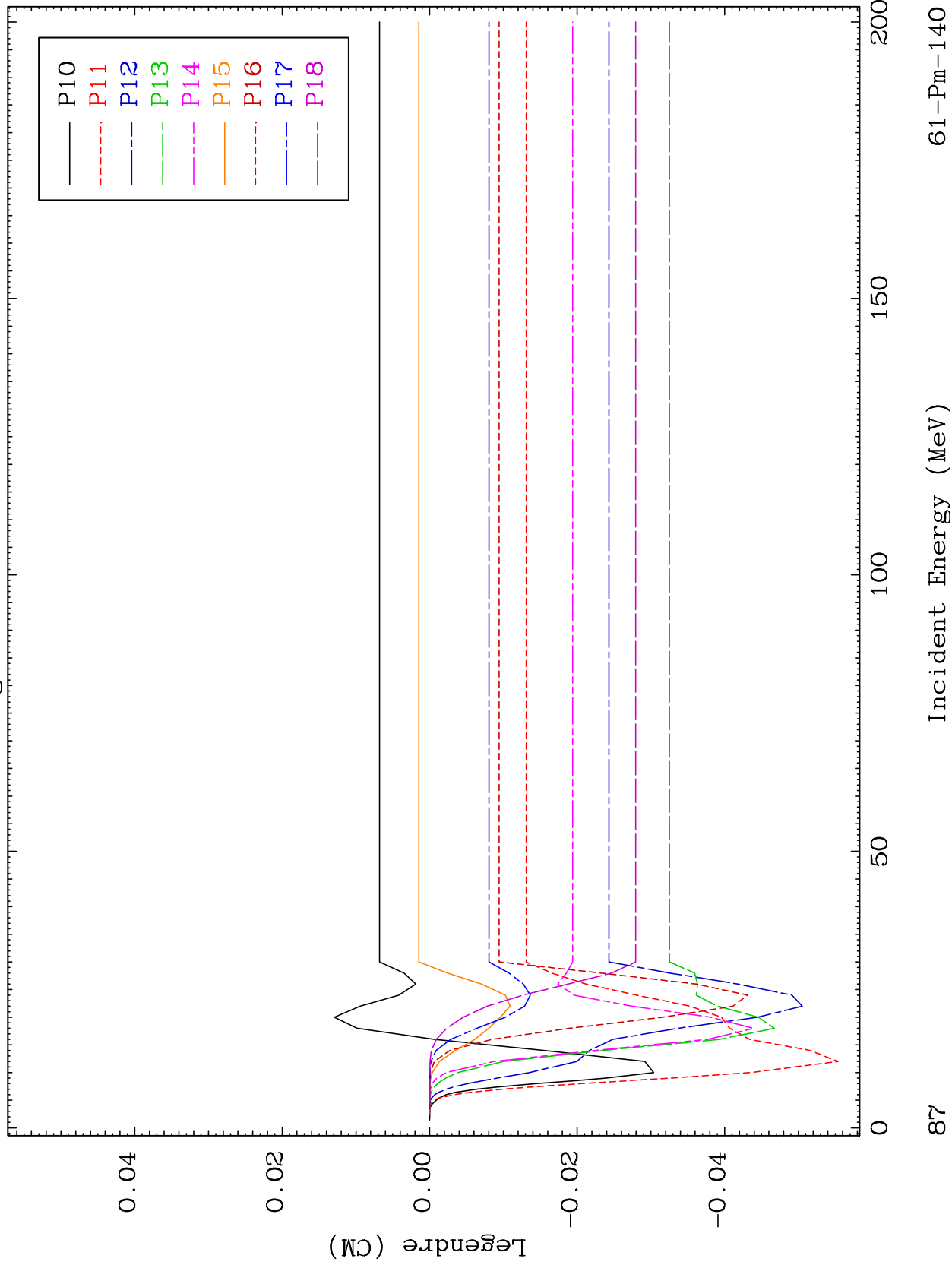
Incident Energy (MeV)

61-Pm-140

MAT 6128

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

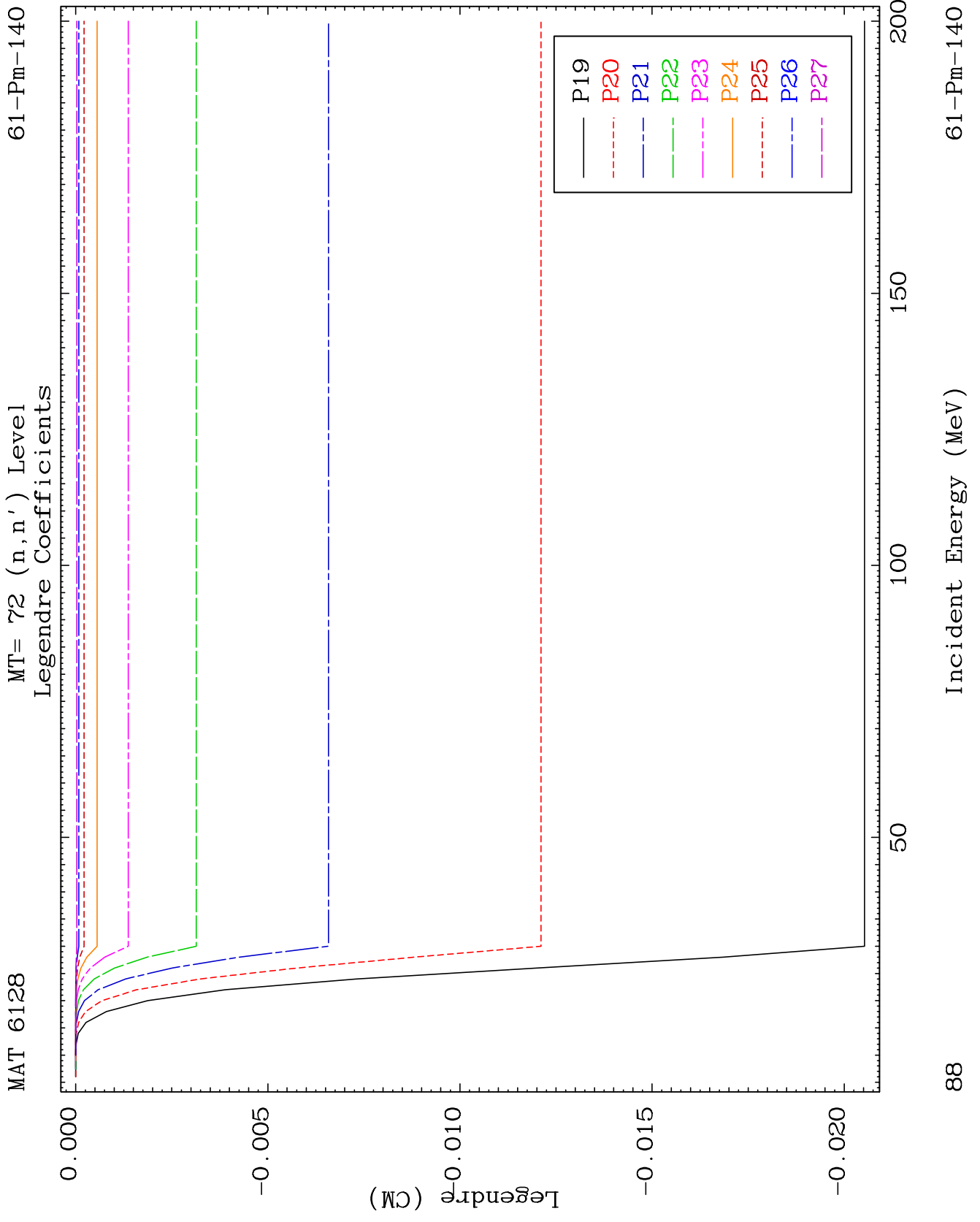
61-Pm-140

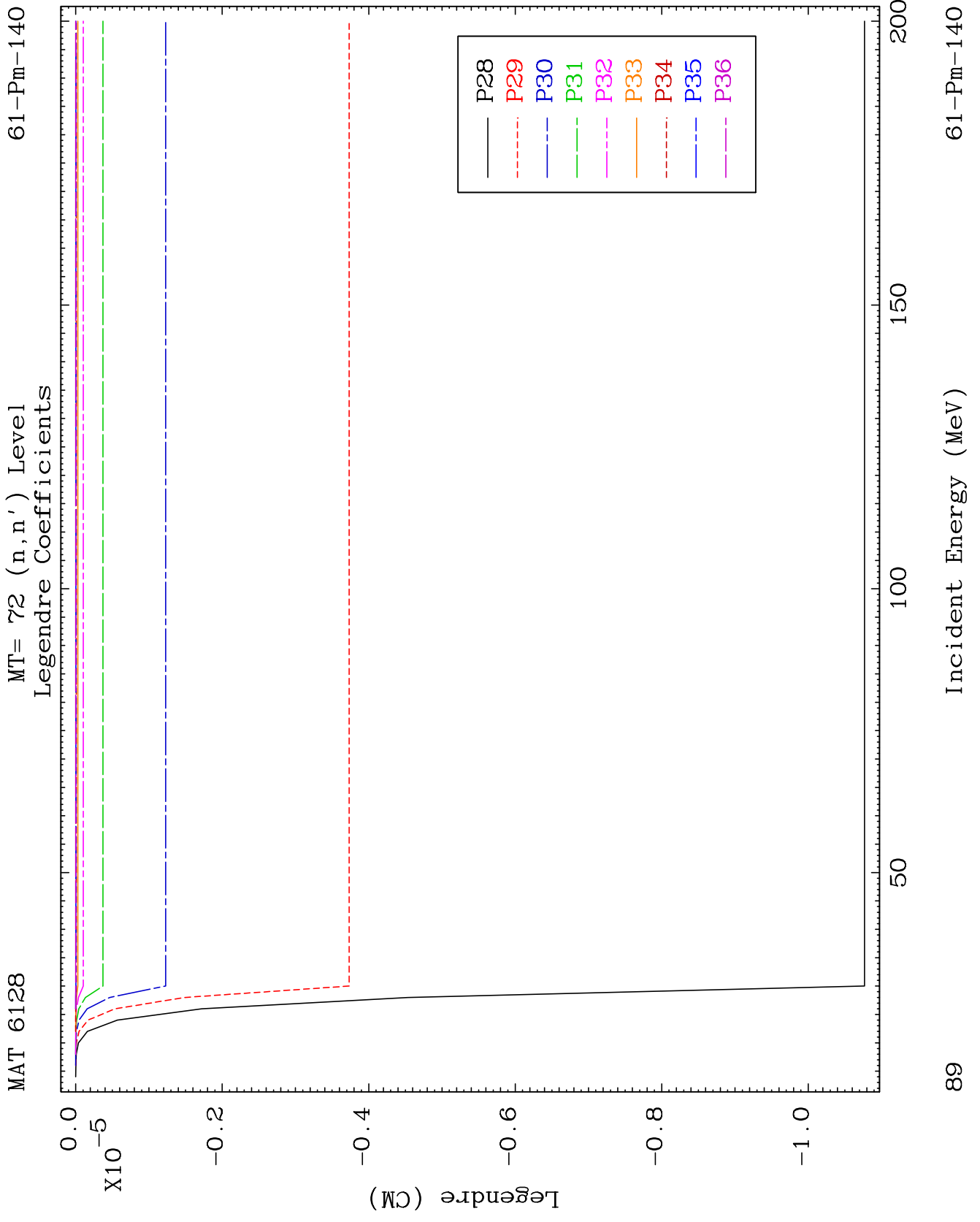


87

Incident Energy (MeV)

61-Pm-140

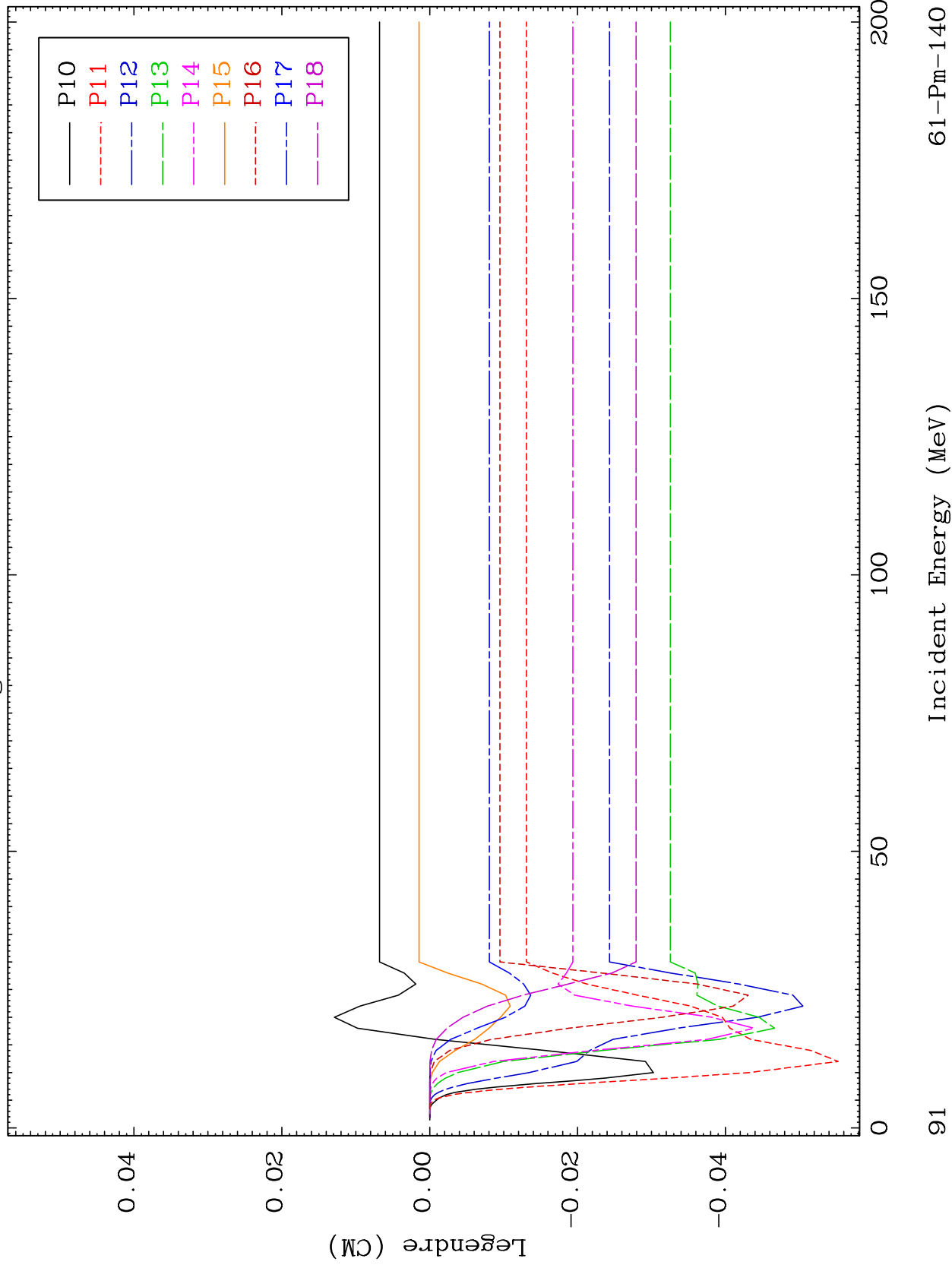




MAT 6128

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

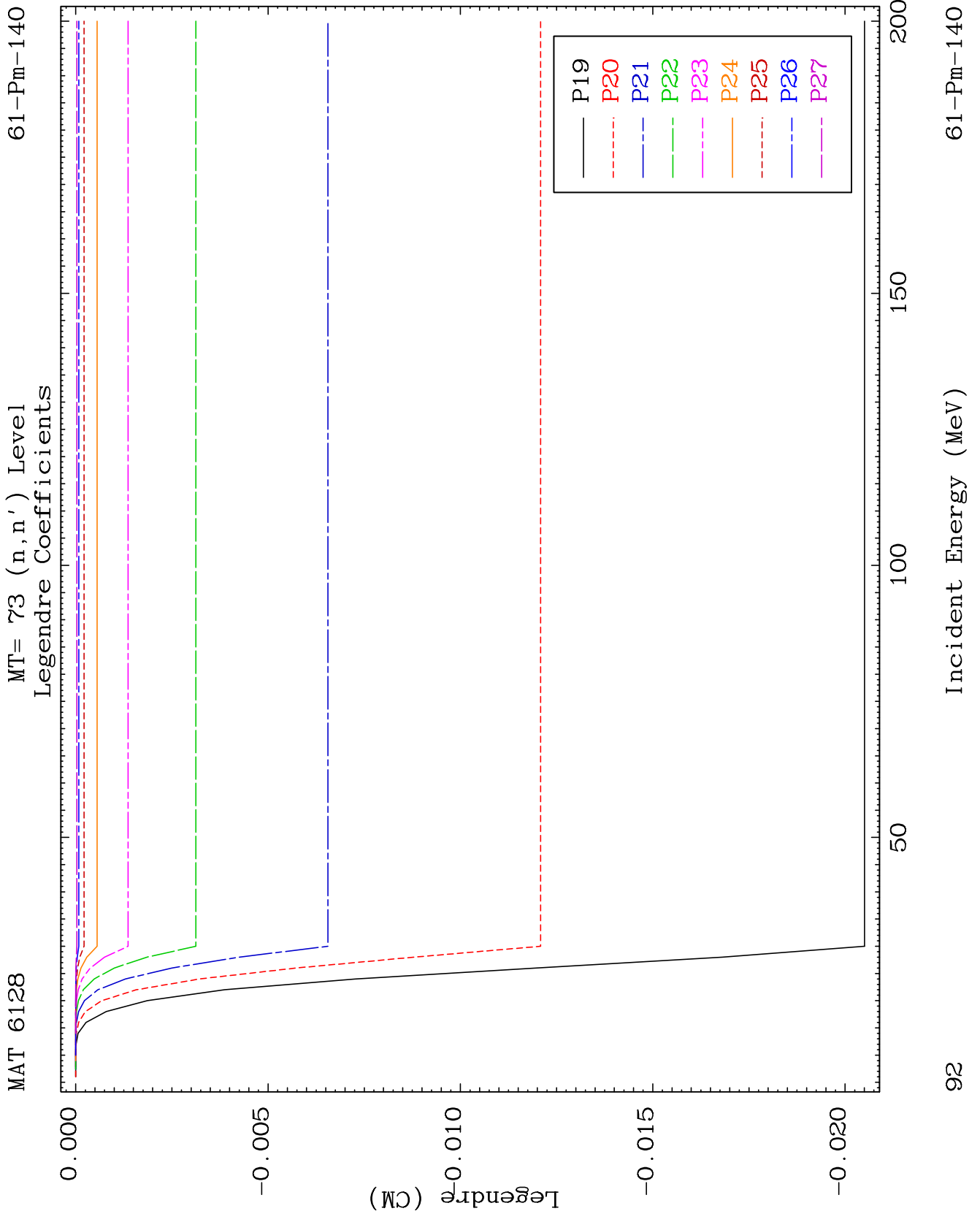
61-Pm-140

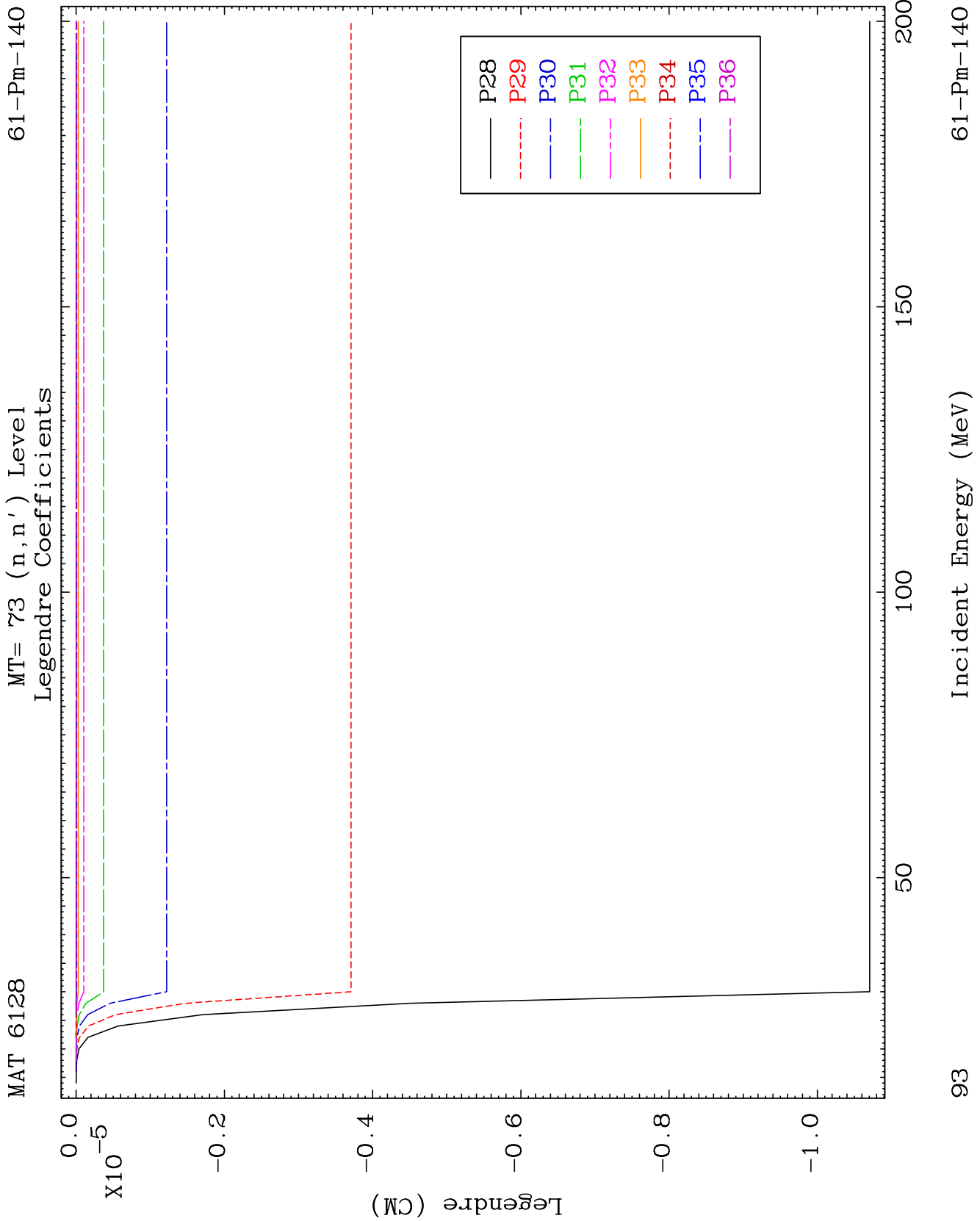


61-Pm-140

Incident Energy (MeV)

91



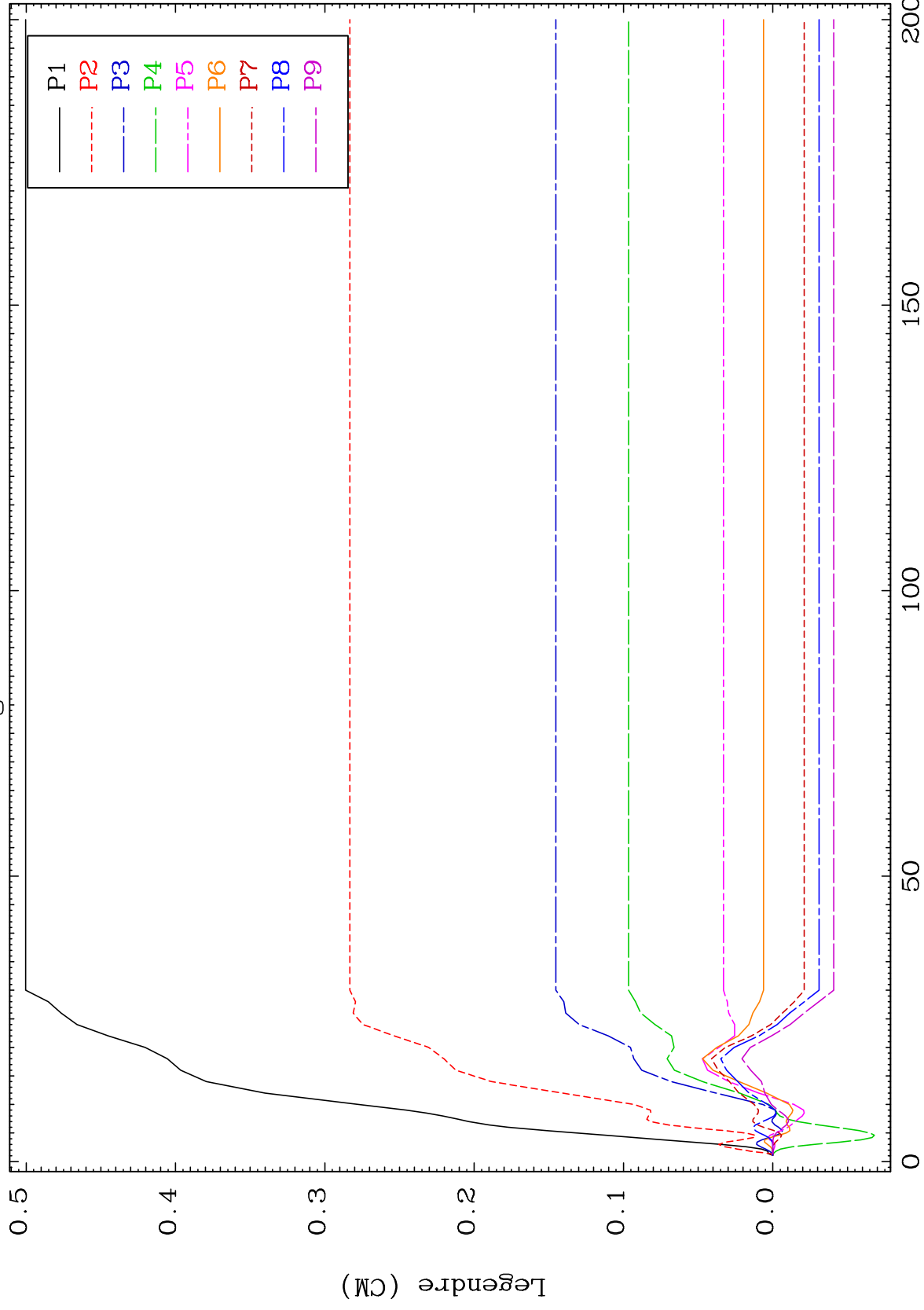


MAT 6128

MT= 74 (n,n') Level

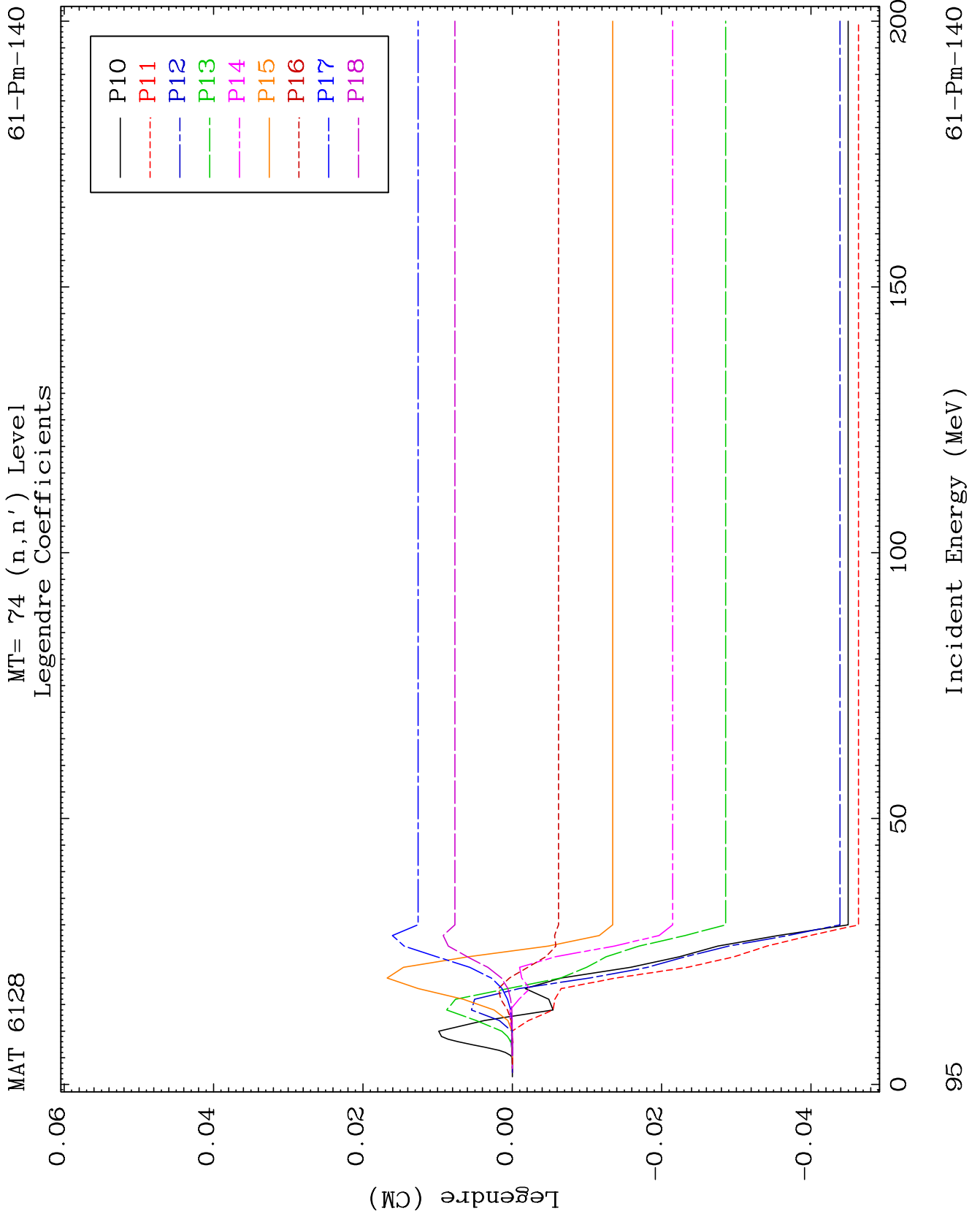
61-Pm-140

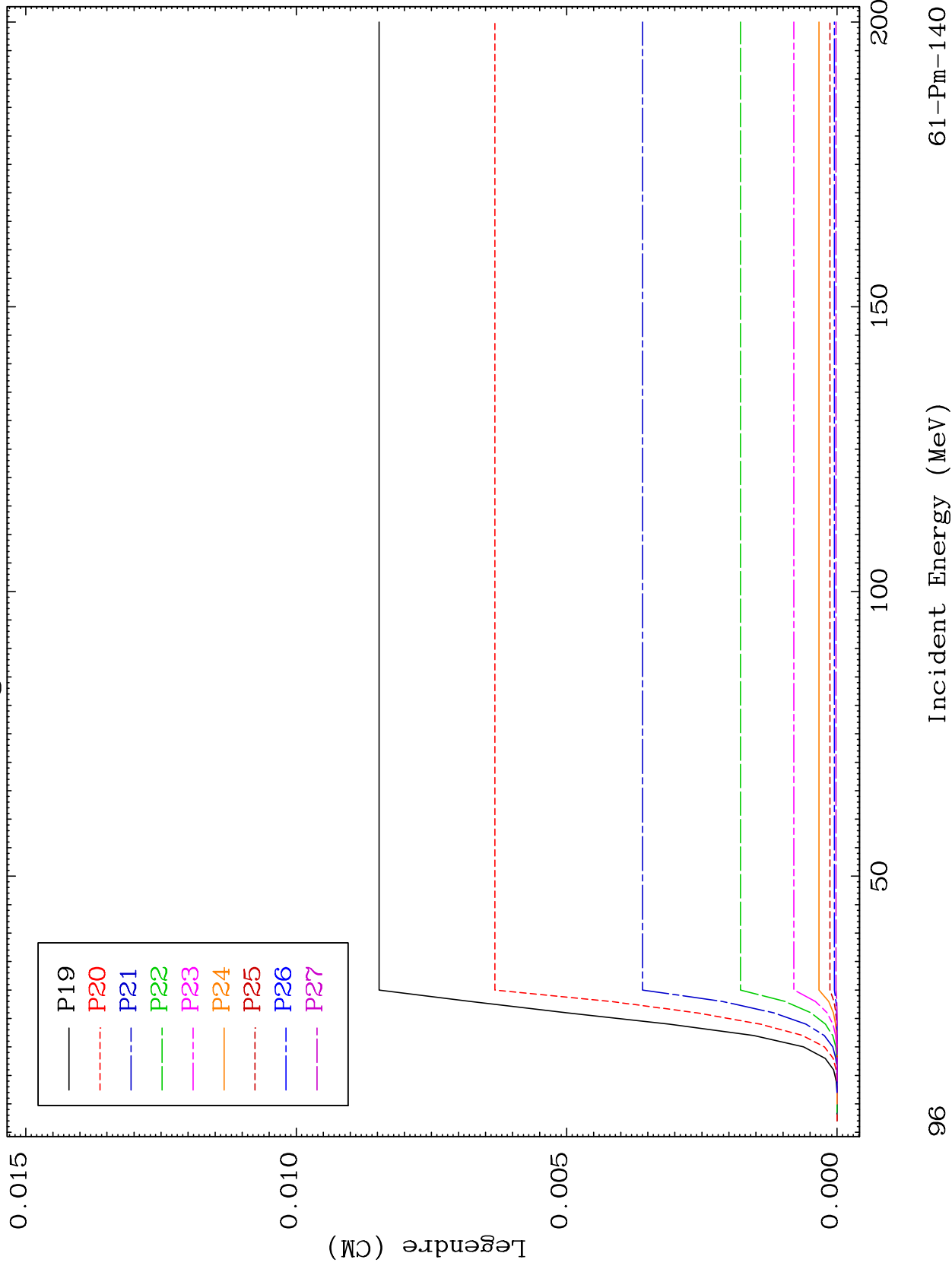
Legendre Coefficients



94

61-Pm-140

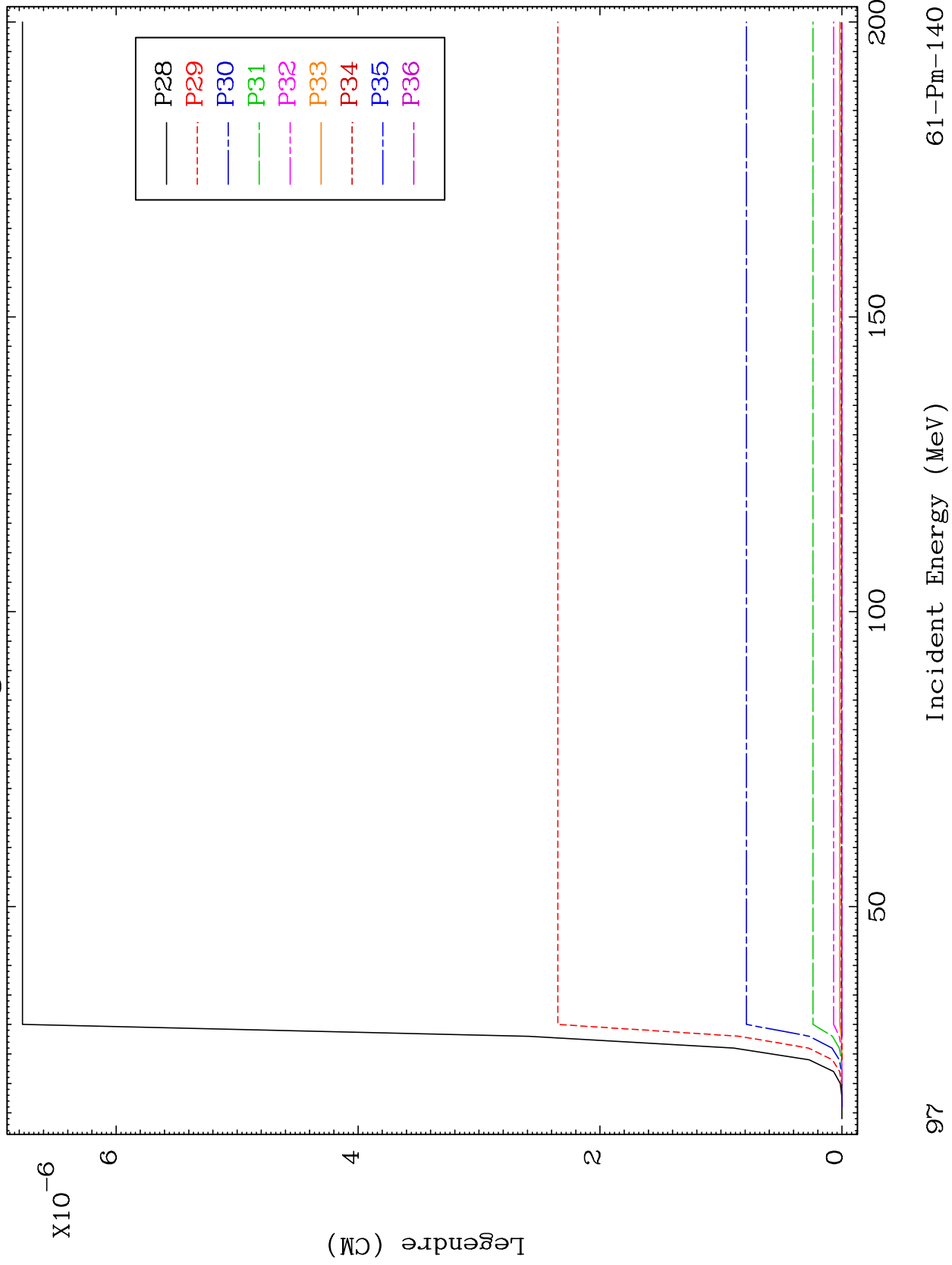




MAT 6128

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

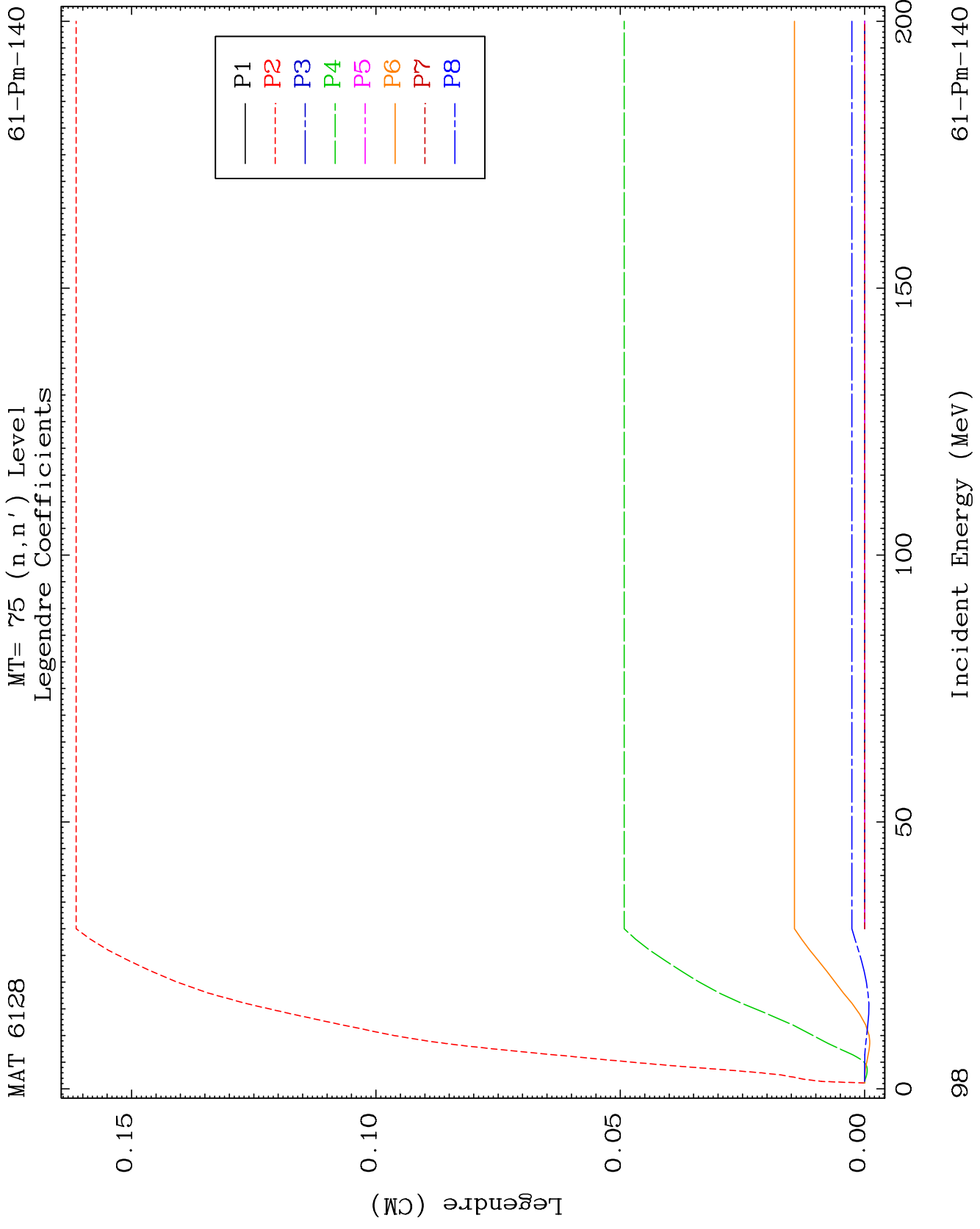
61-Pm-140

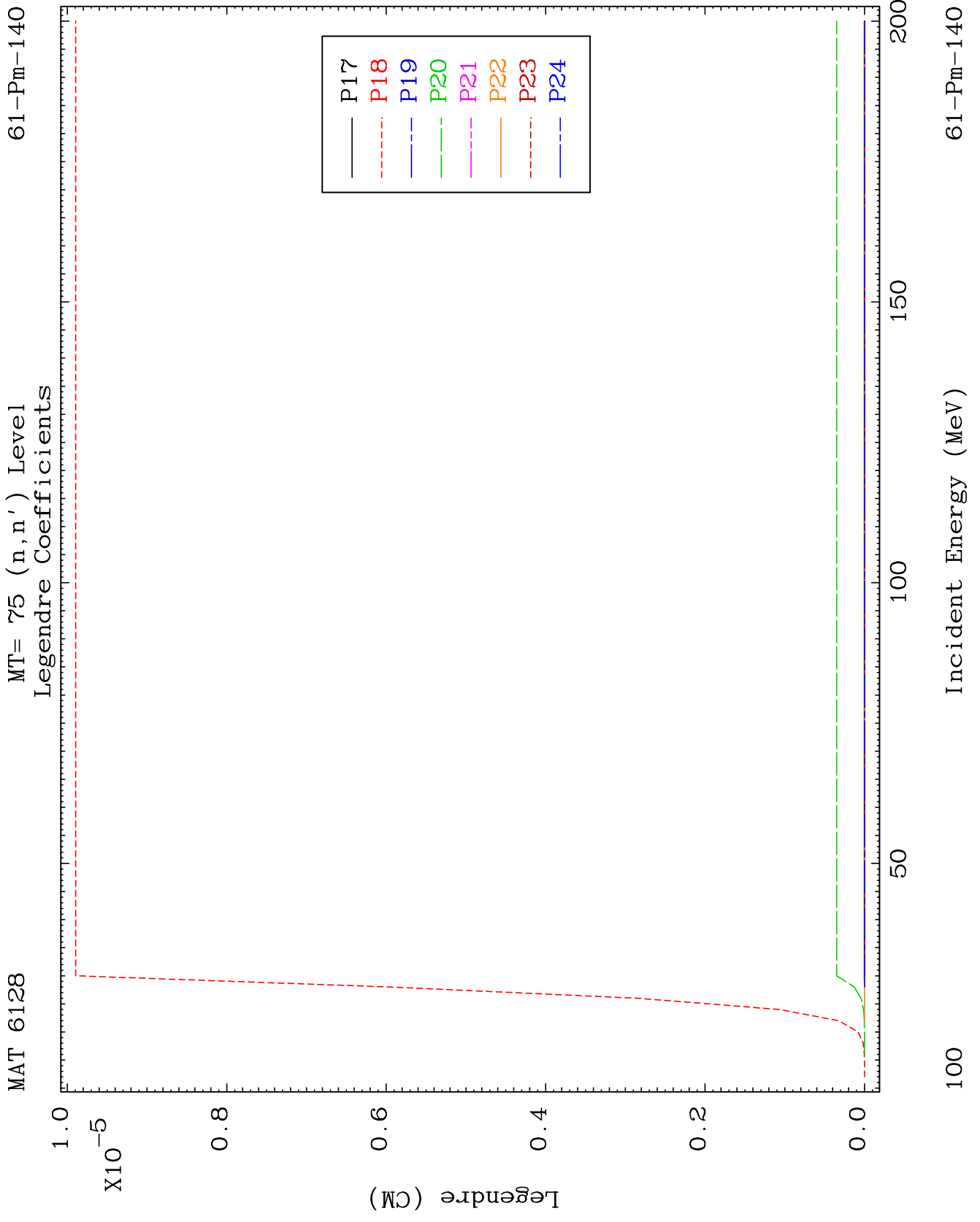


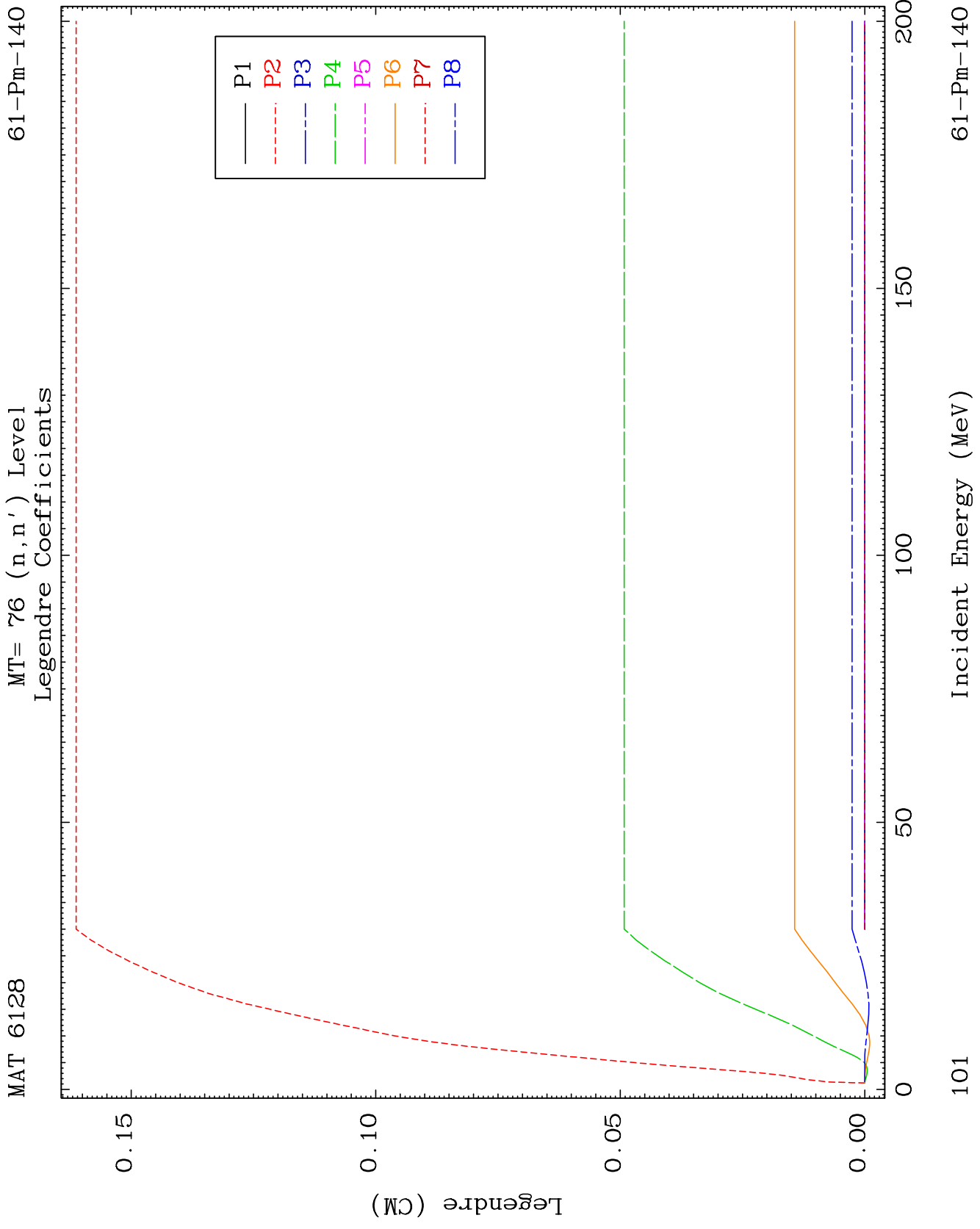
97

Incident Energy (MeV)

61-Pm-140





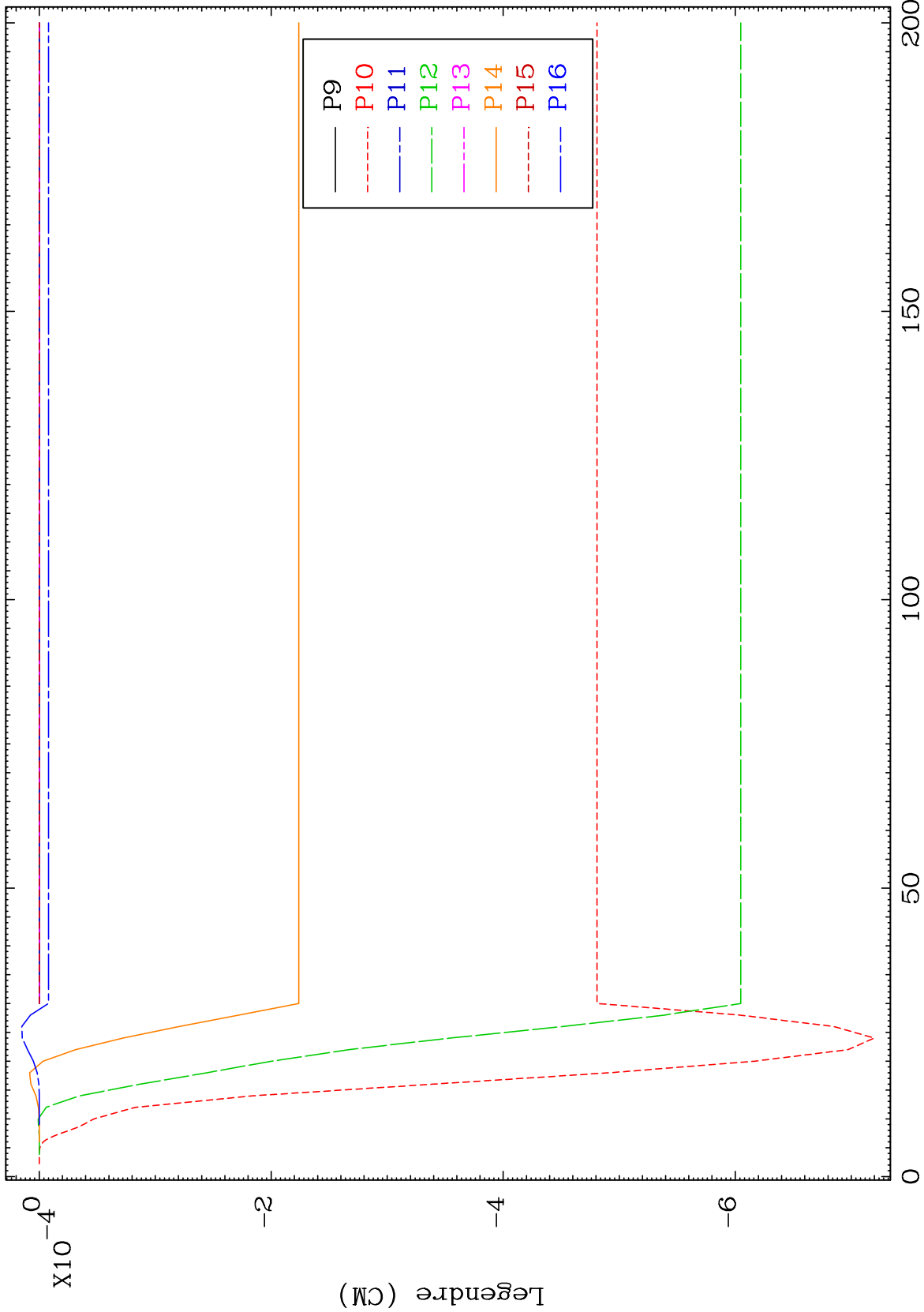


MAT 6128

MT= 76 (n,n') Level

61-Pm-140

Legendre Coefficients



0

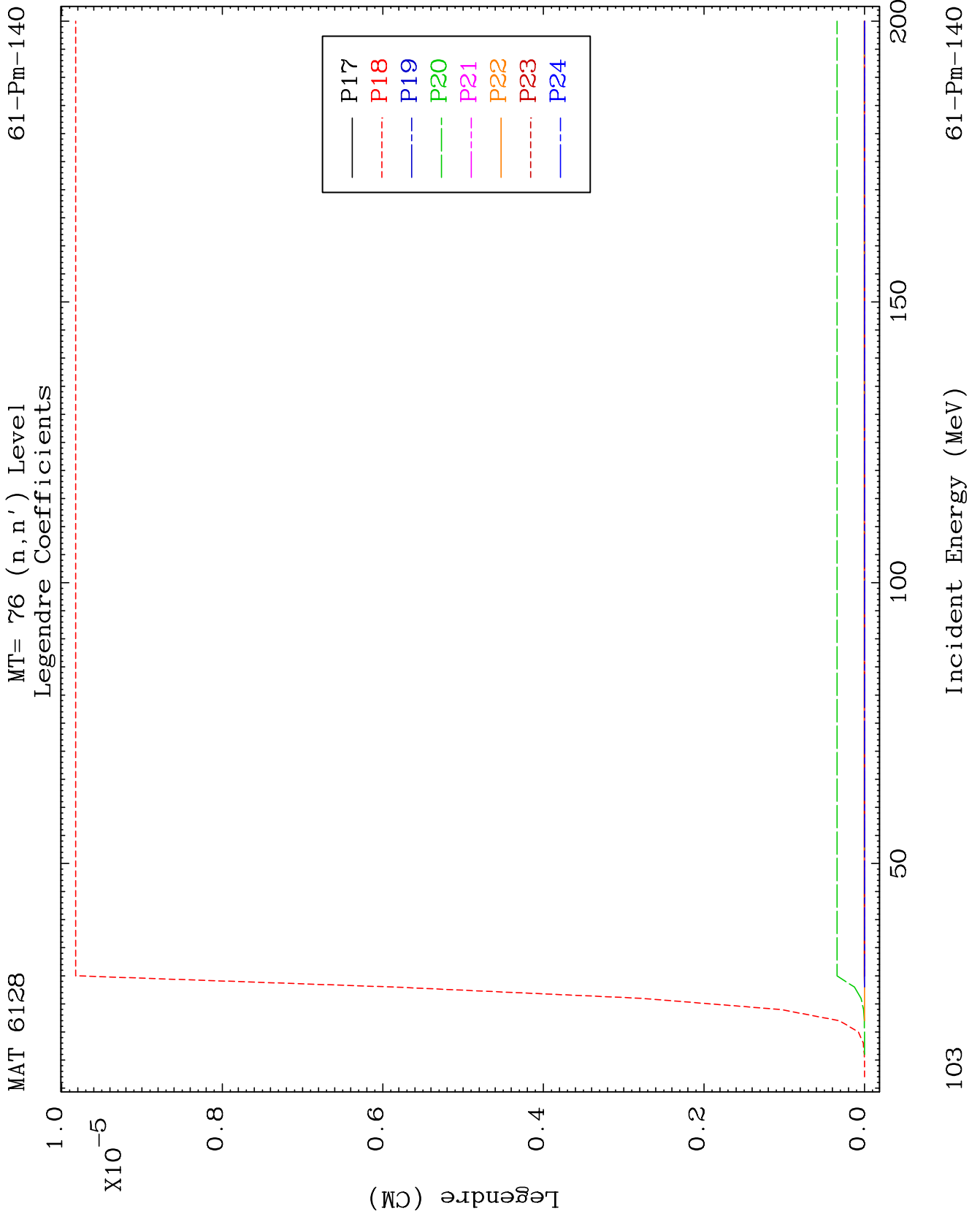
50

100

150

200

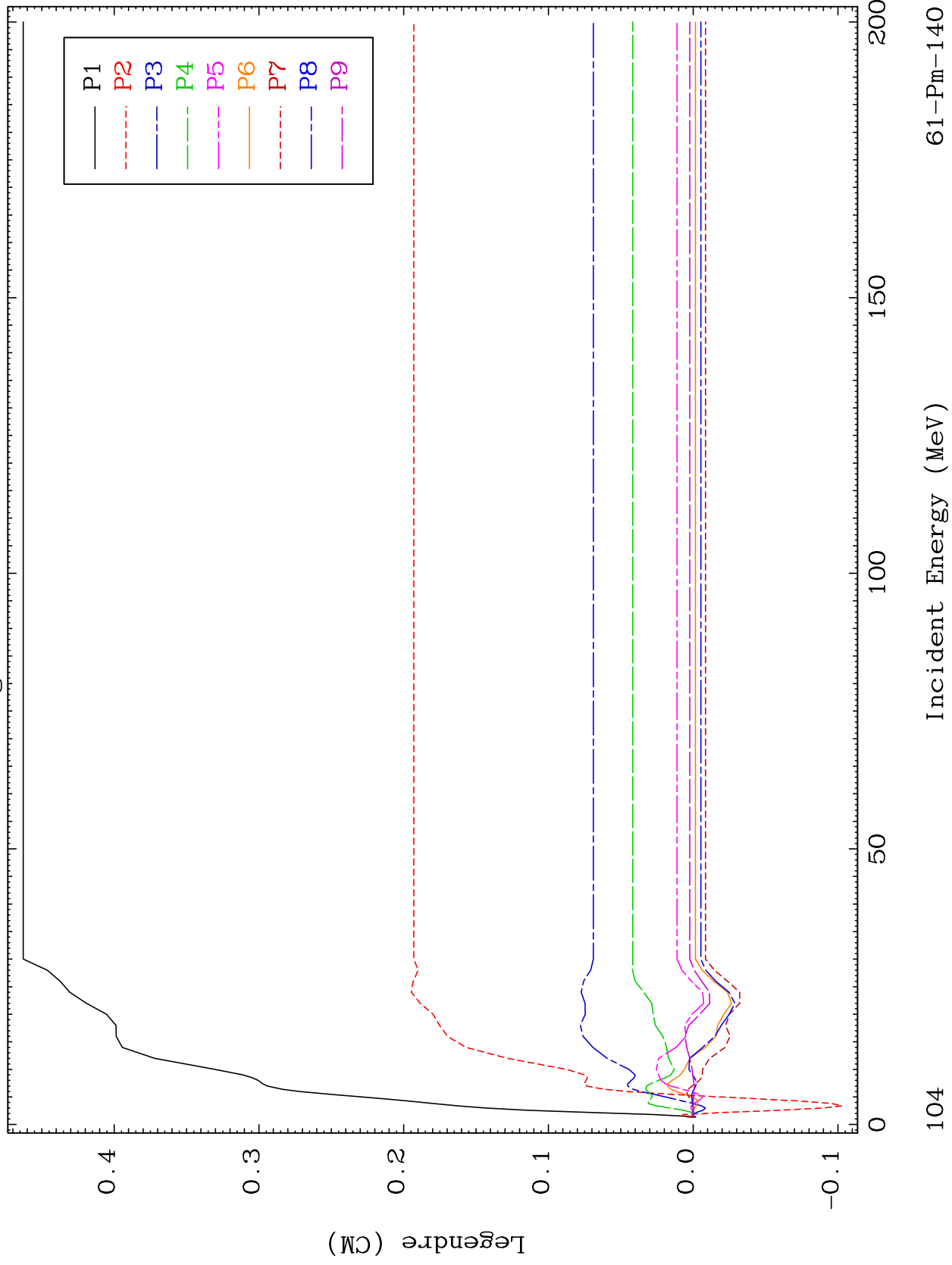
61-Pm-140



MAT 6128

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

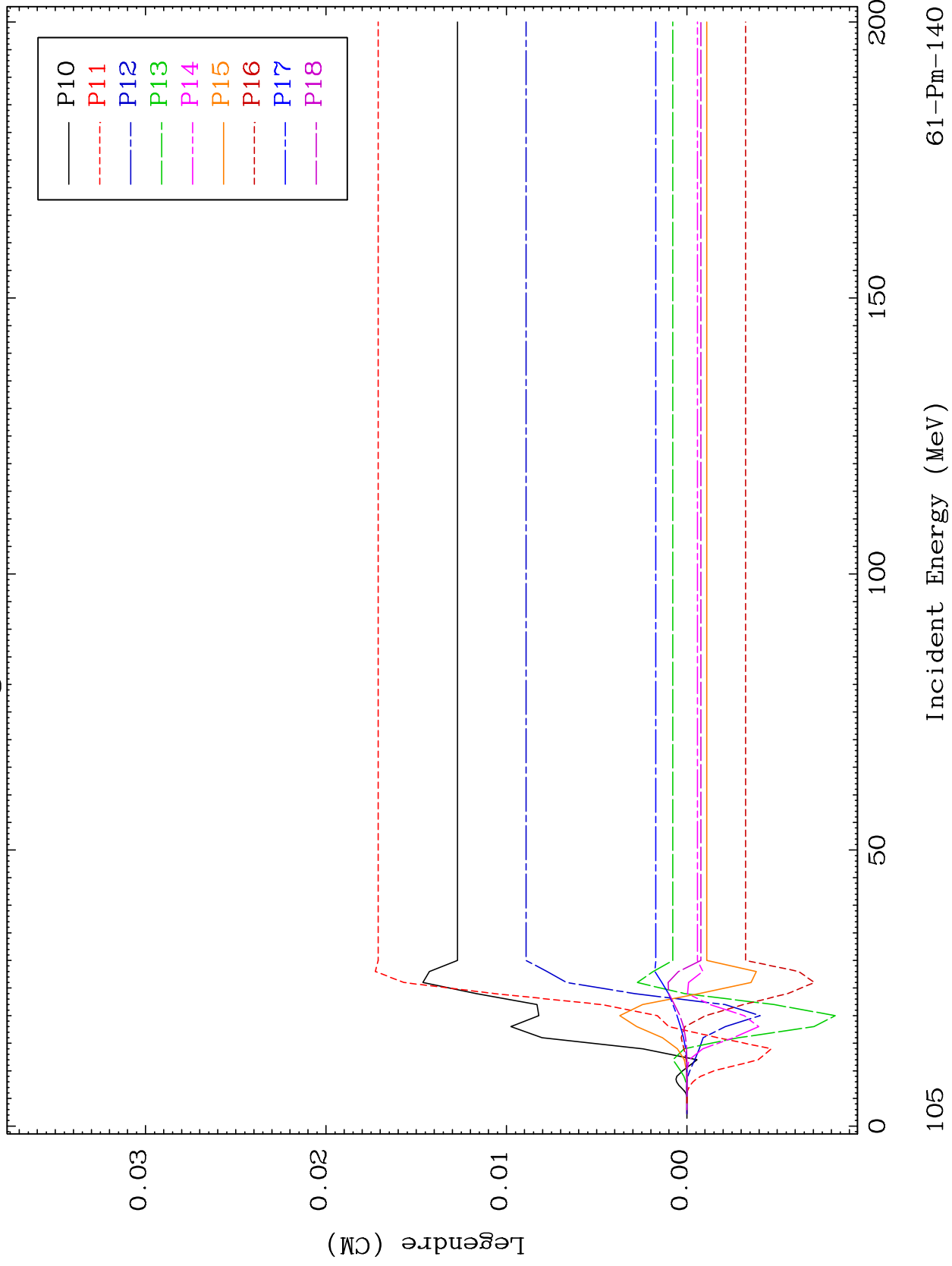
61-Pm-140



MAT 6128

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

61-Pm-140



61-Pm-140

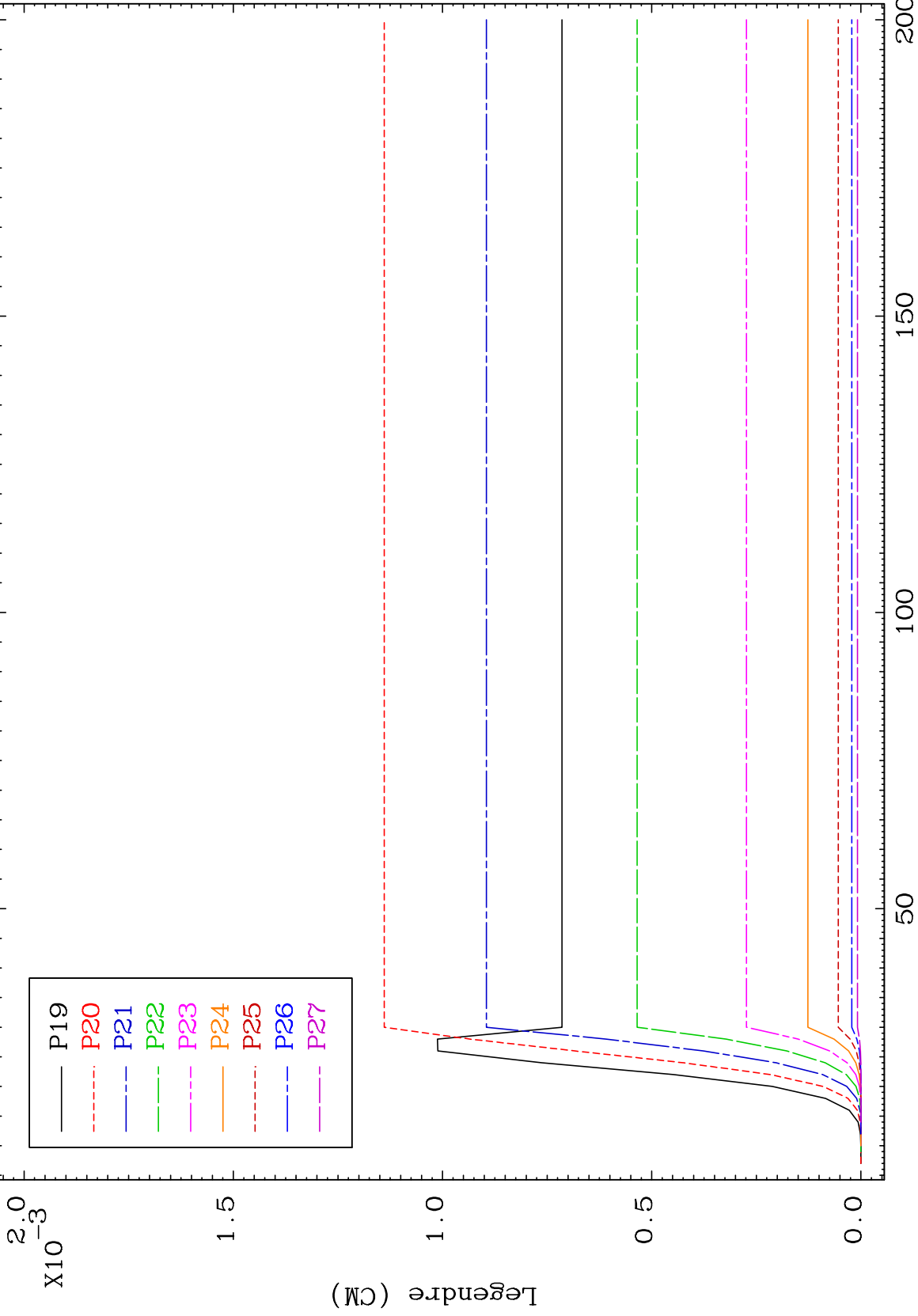
Incident Energy (MeV)

105

MAT 6128

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

61-Pm-140



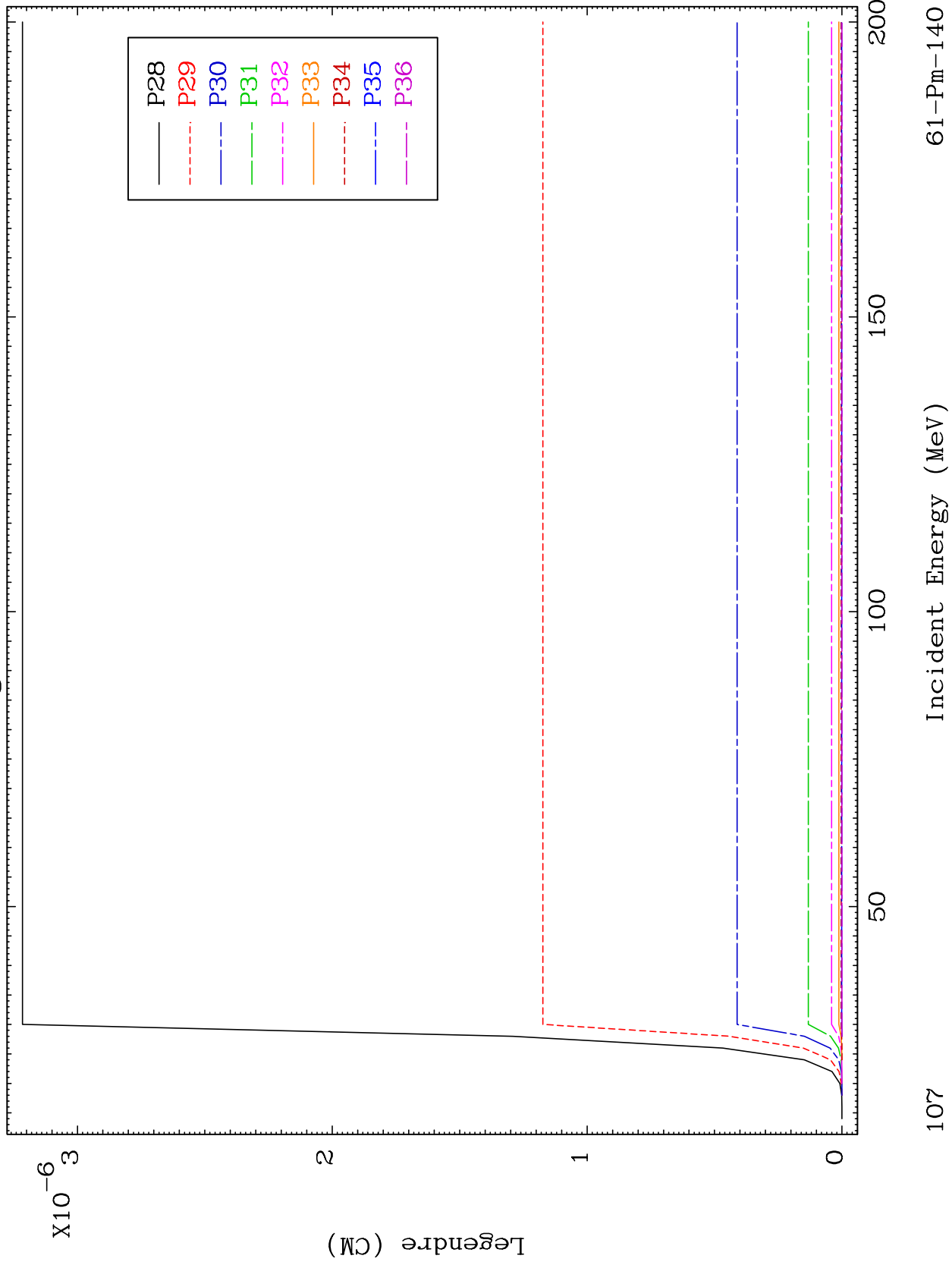
106

61-Pm-140

MAT 6128

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

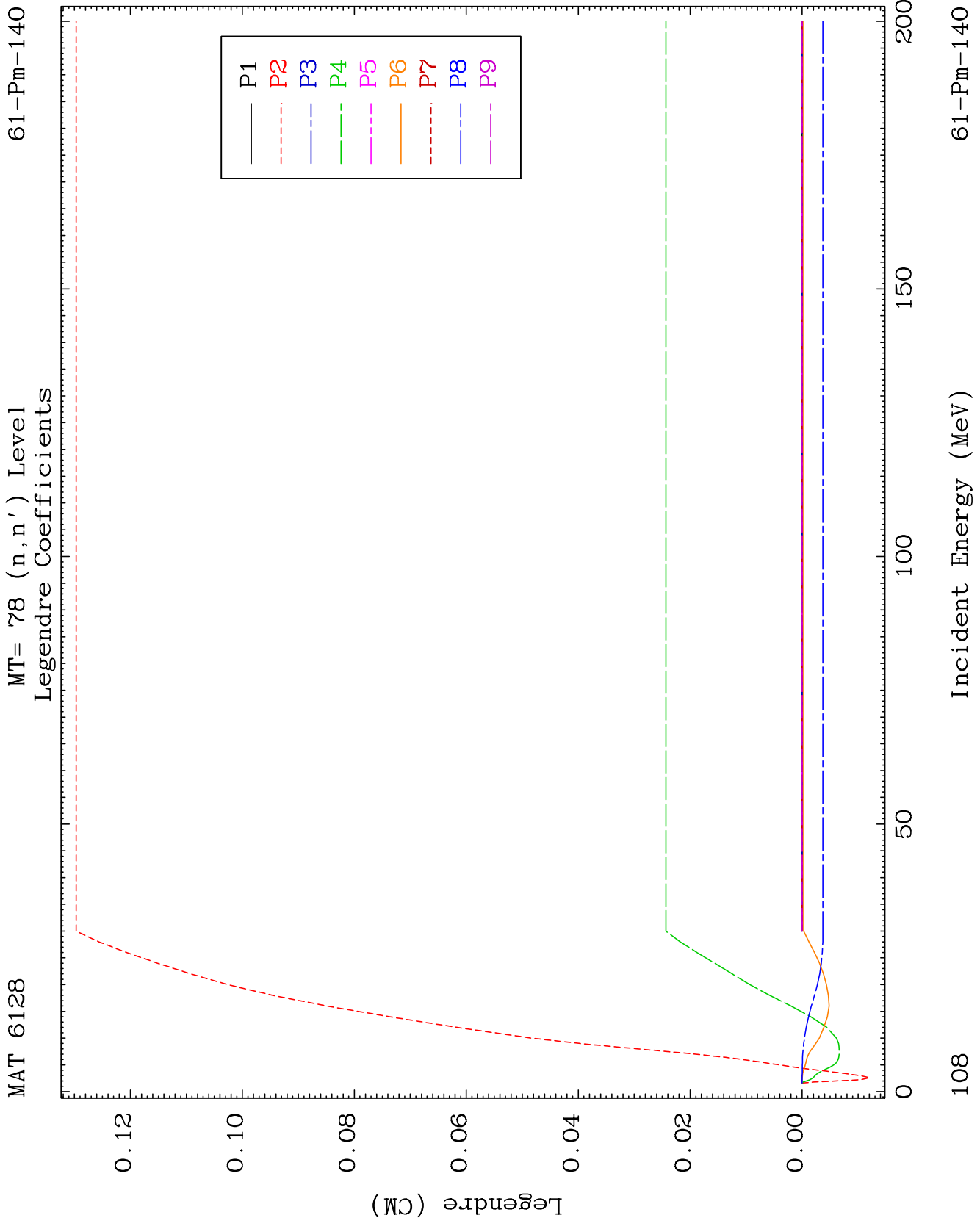
61-Pm-140

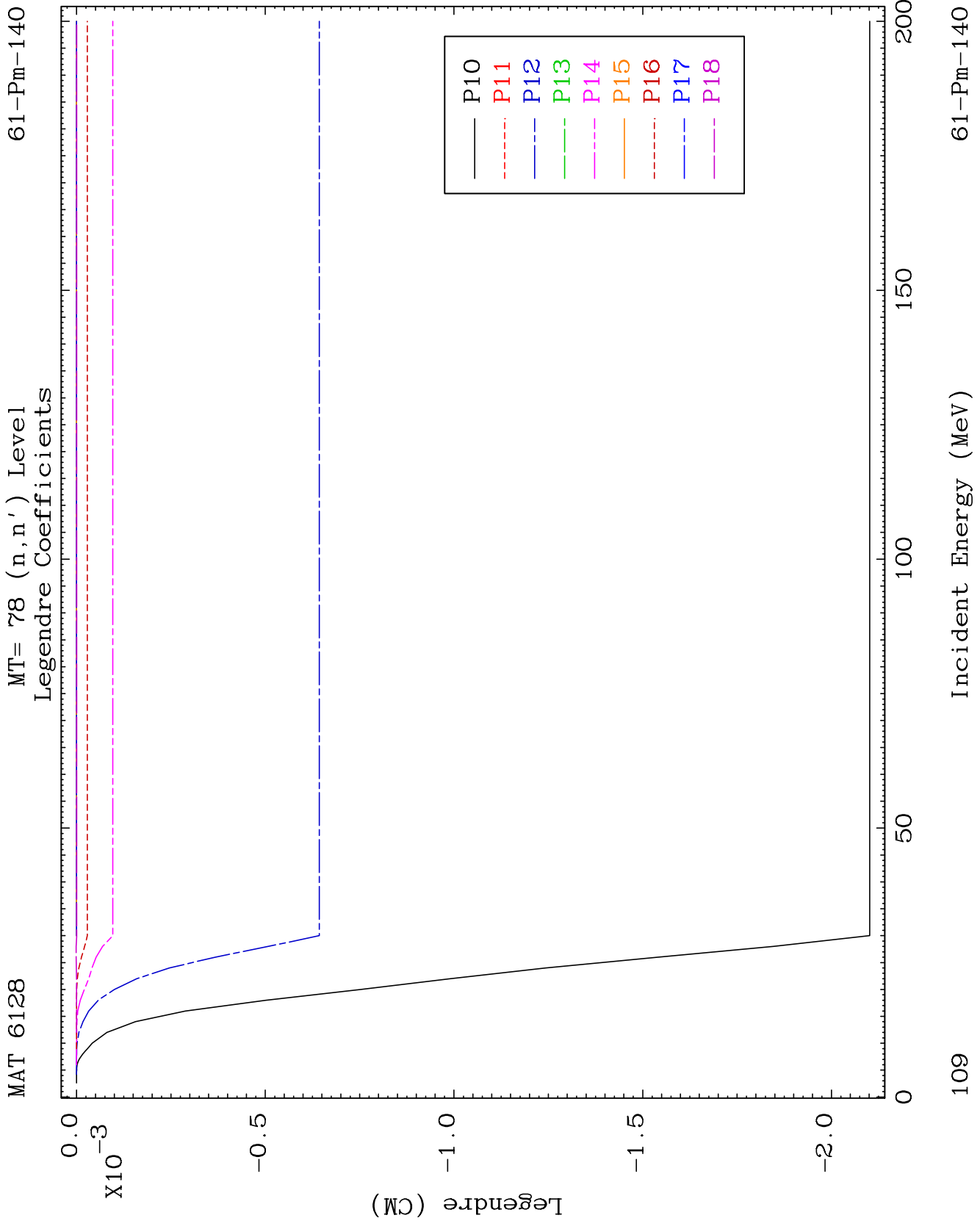


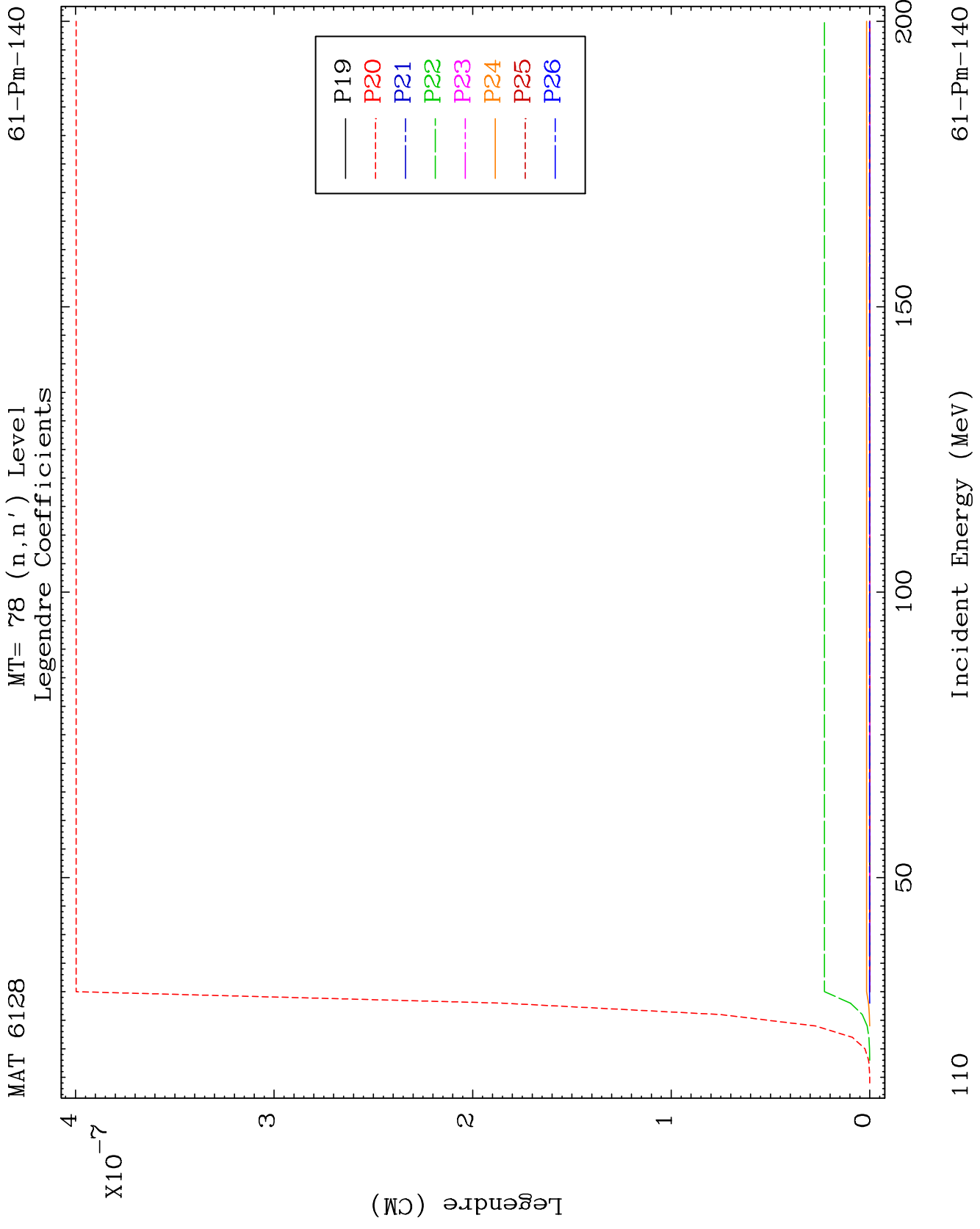
107

Incident Energy (MeV)

61-Pm-140



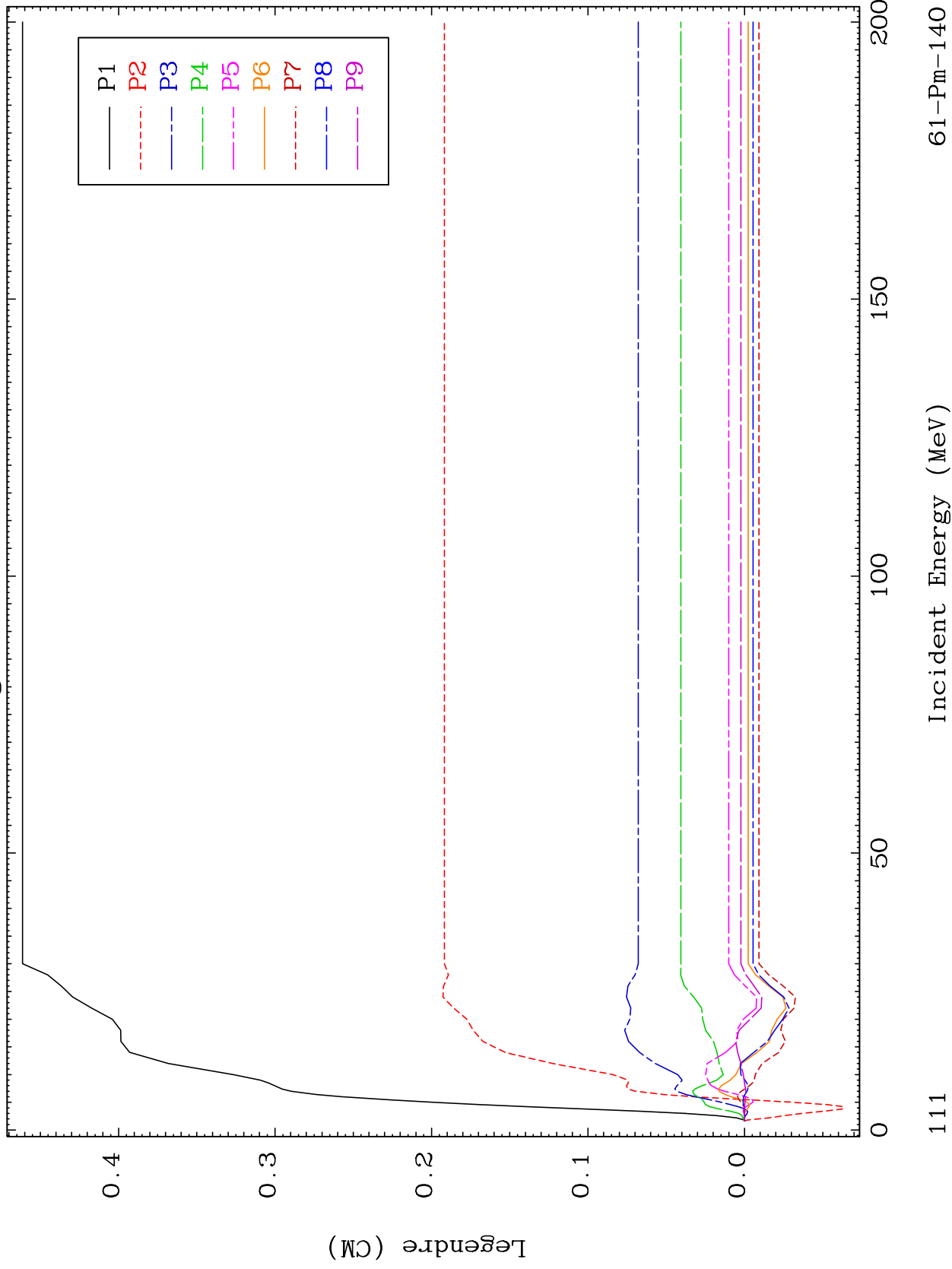




MAT 6128

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

61-Pm-140



61-Pm-140

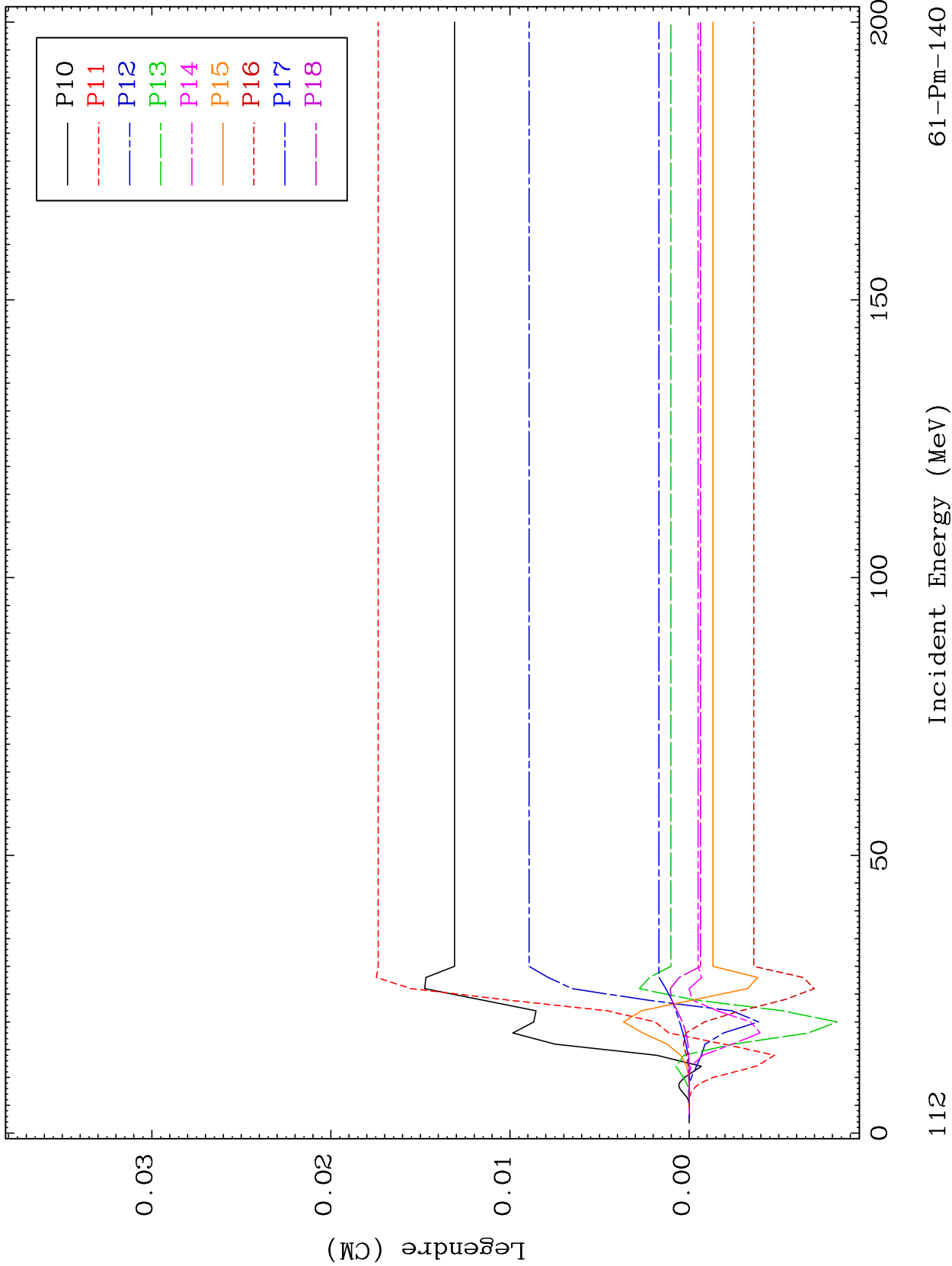
Incident Energy (MeV)

111

MAT 6128

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

61-Pm-140



112

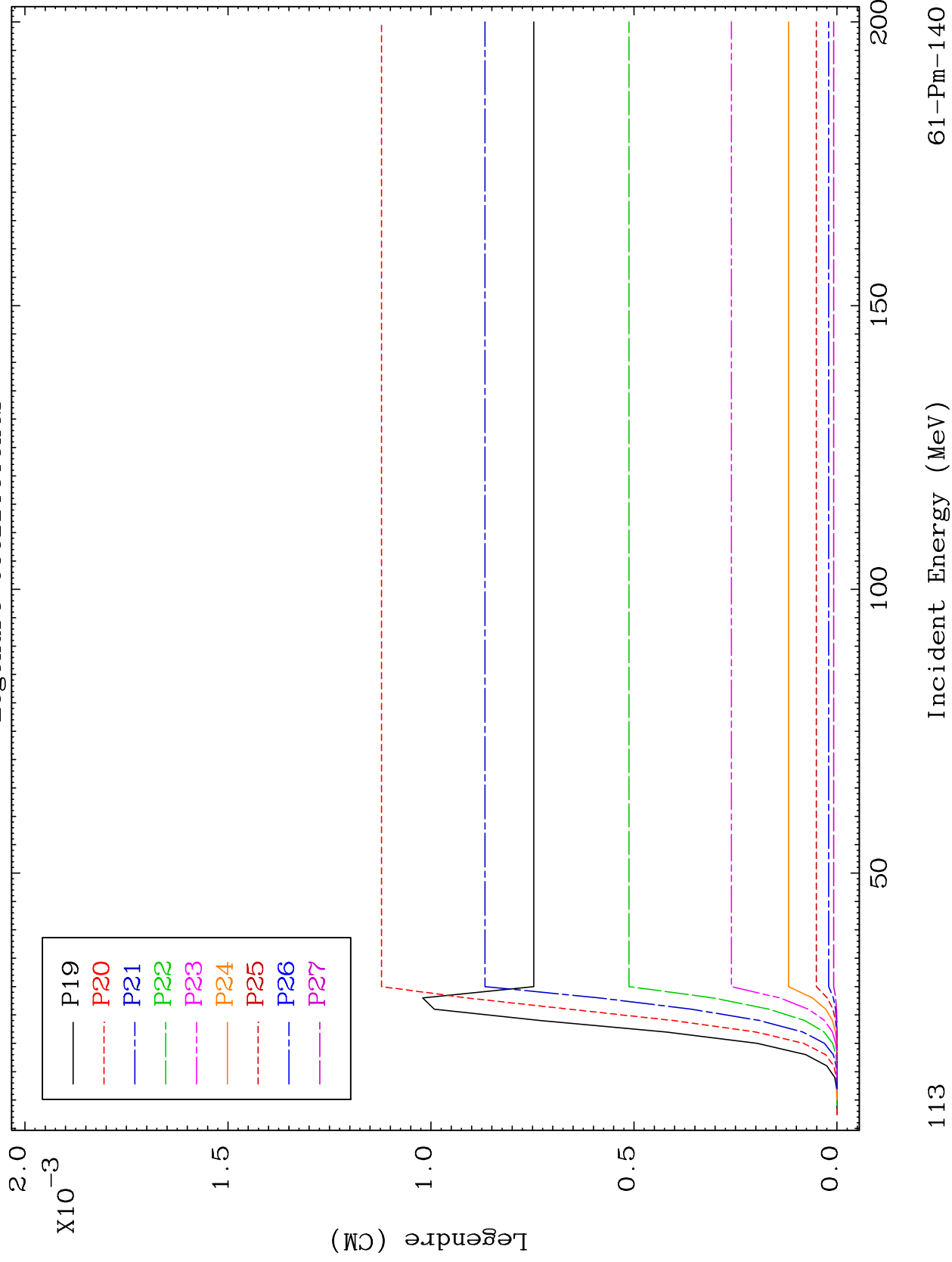
Incident Energy (MeV)

61-Pm-140

MAT 6128

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

61-Pm-140

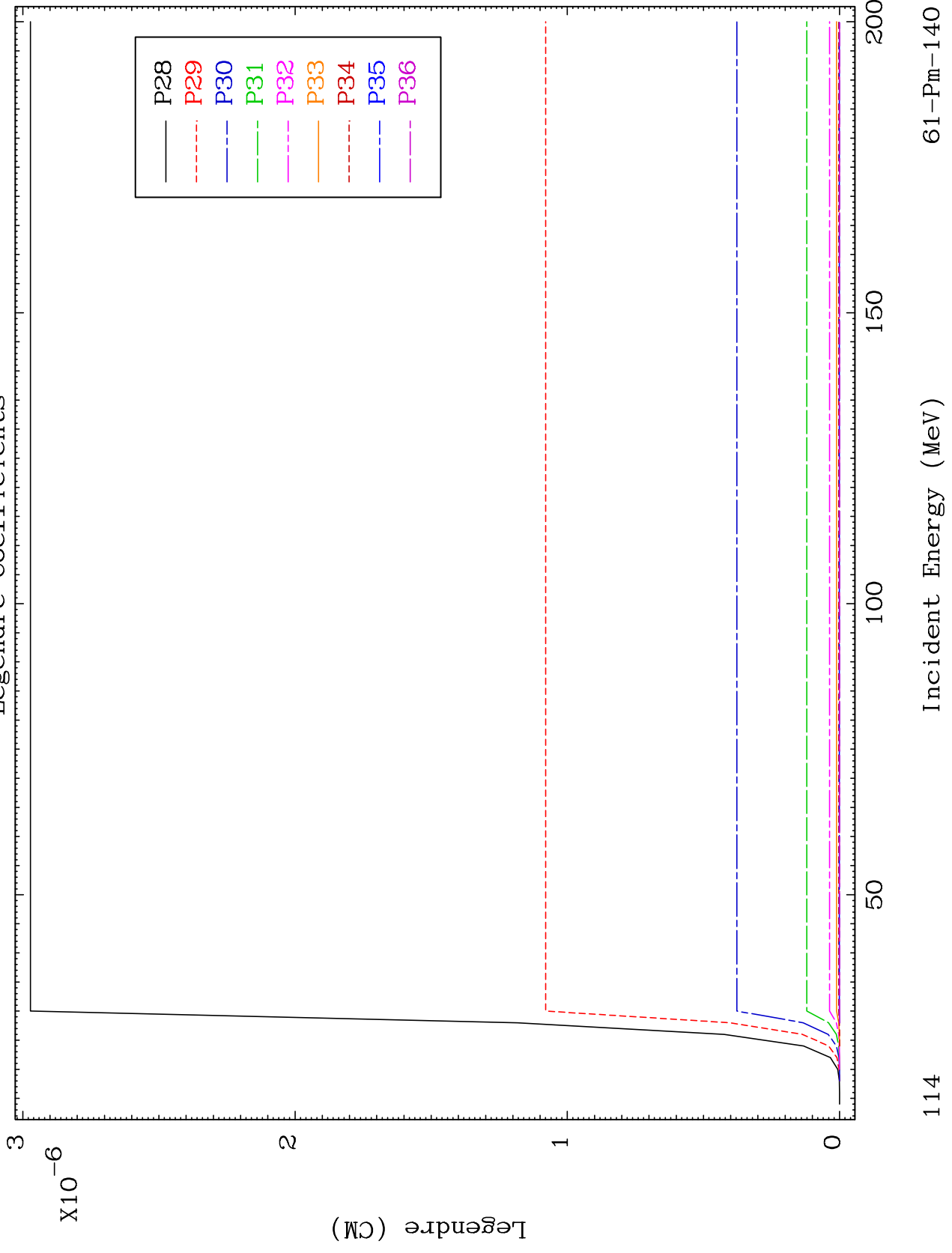


113

MAT 6128

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

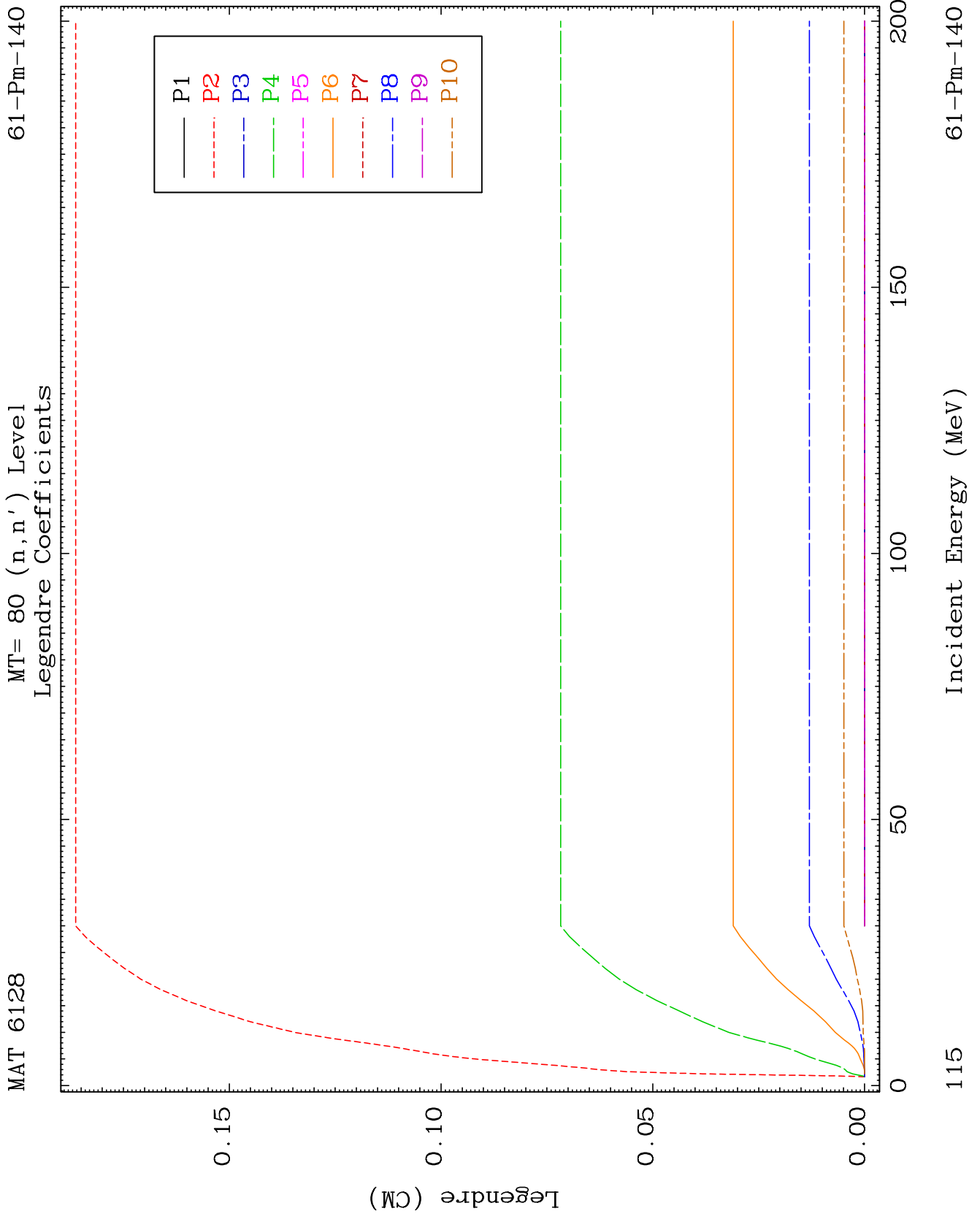
61-Pm-140

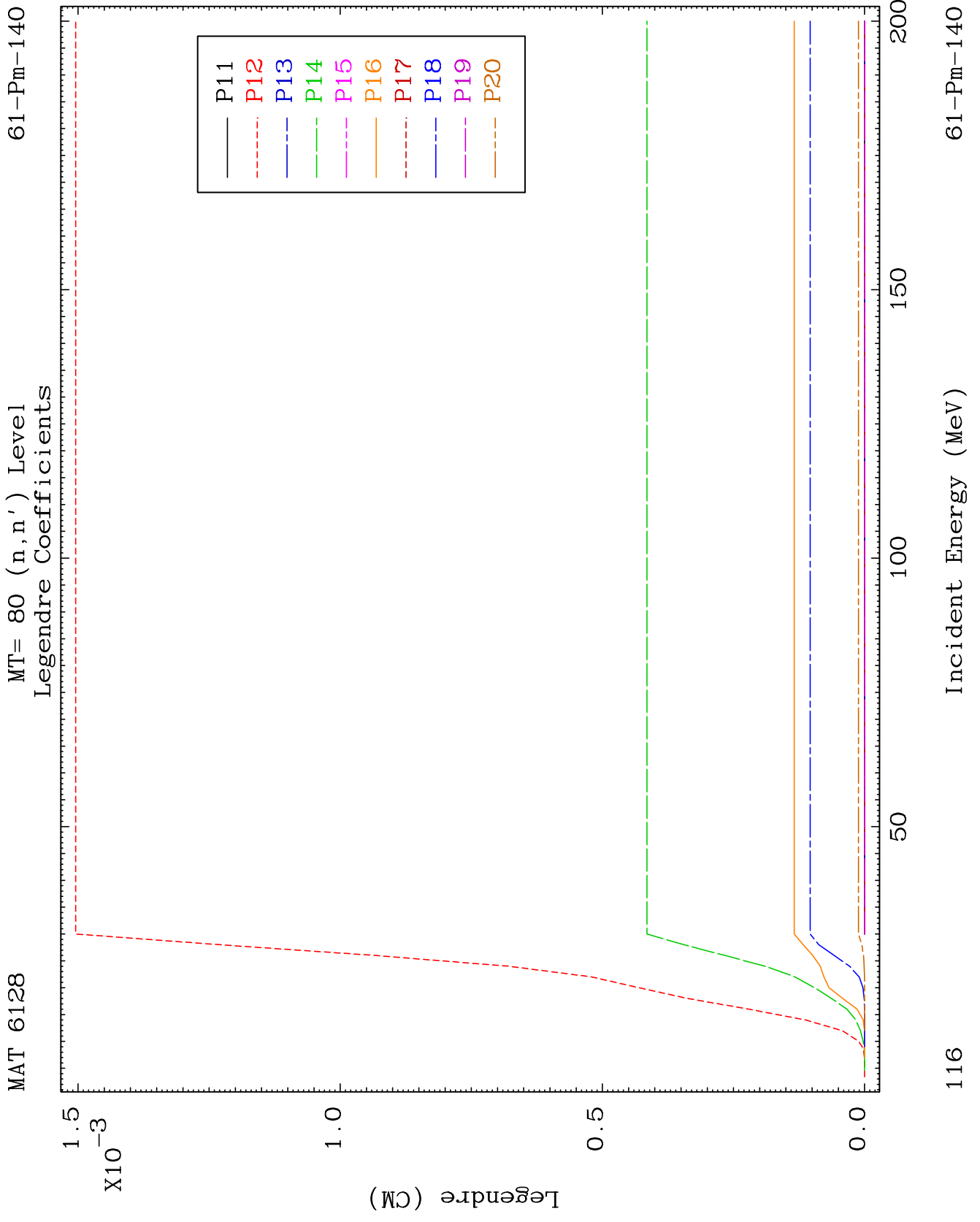


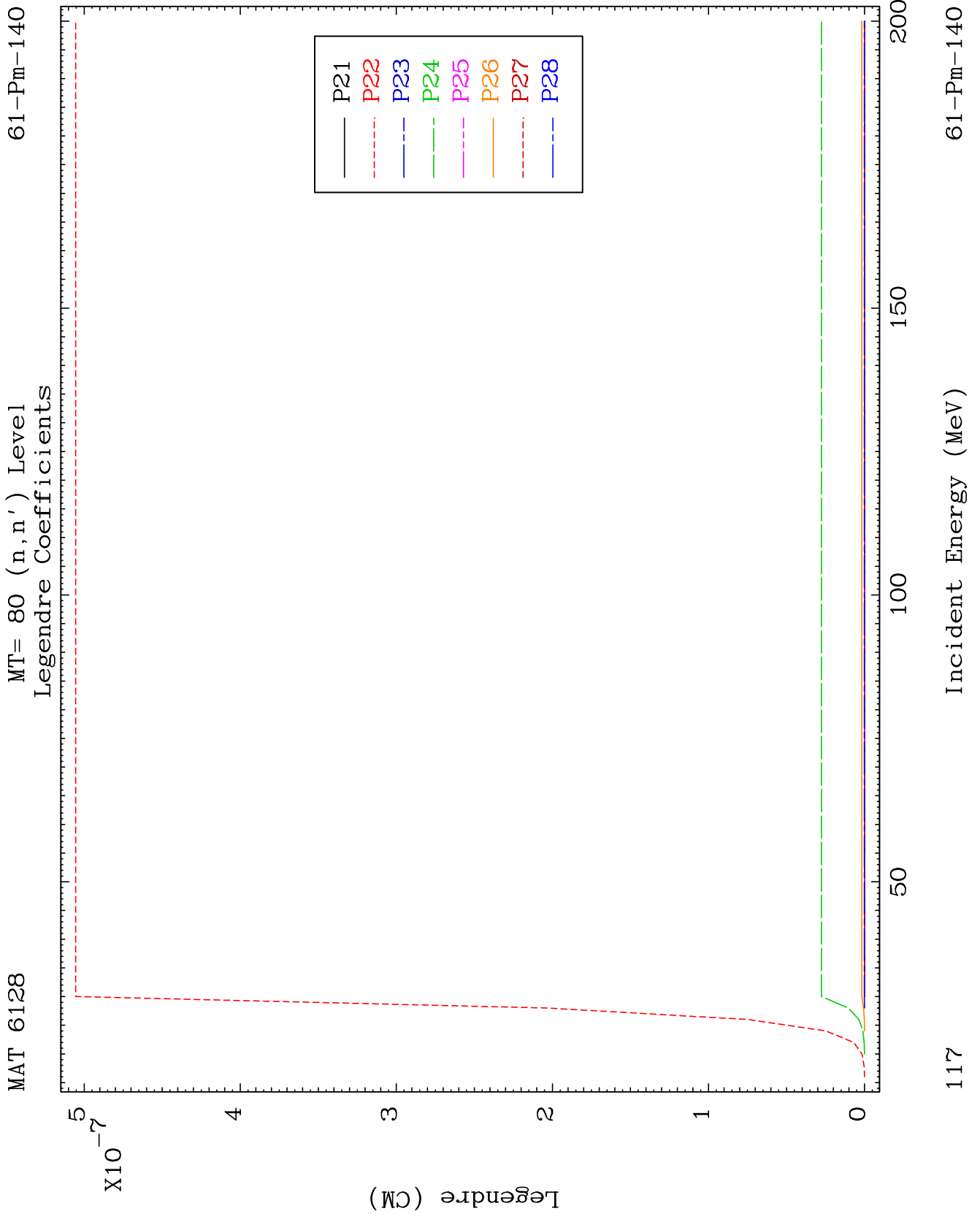
114

Incident Energy (MeV)

61-Pm-140



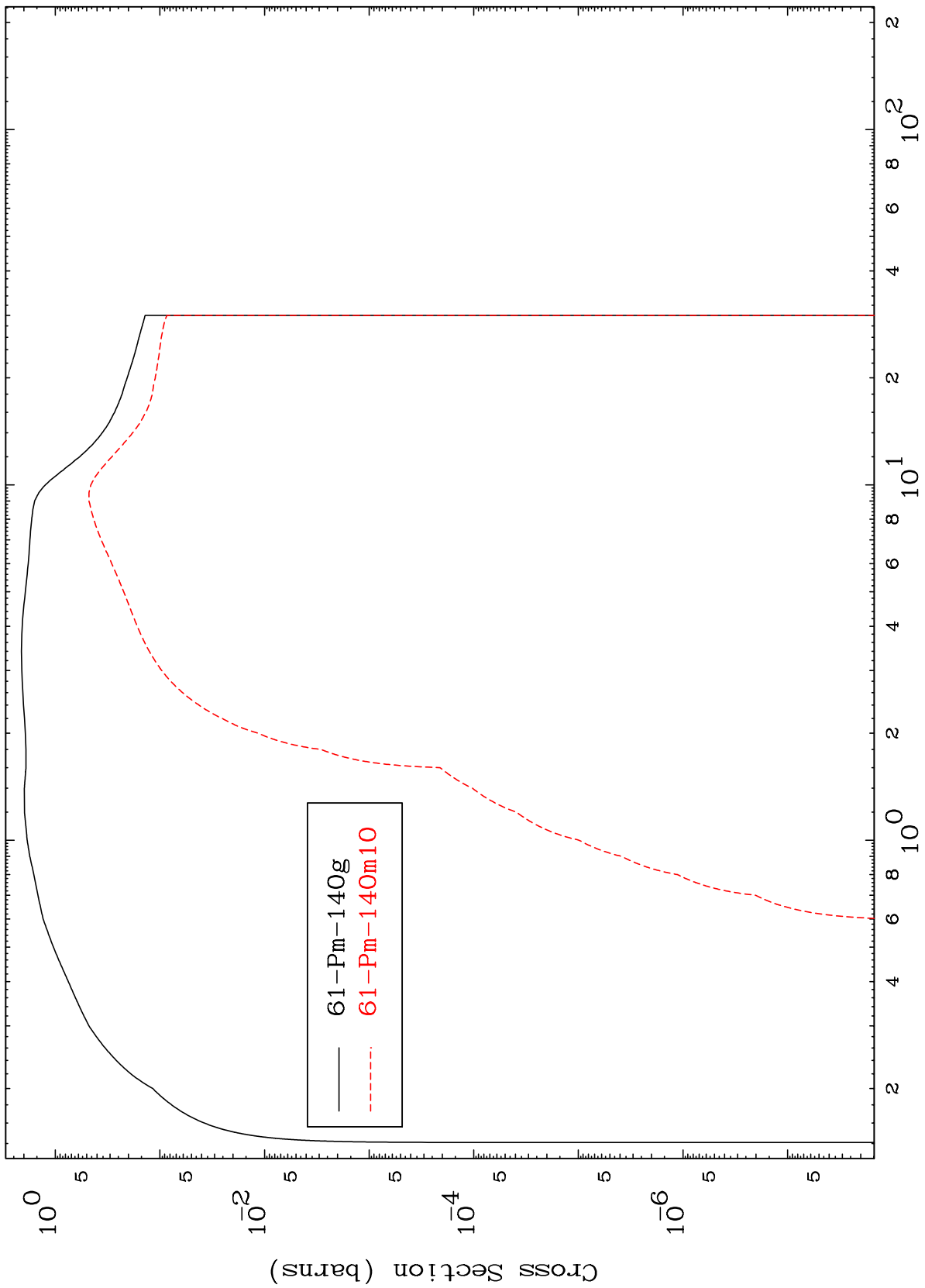




MAT 6128

61-Pm-140

Inelastic
Radionuclide Production Cross Section



Cross Section (barns)

61-Pm-140g
61-Pm-140m10

61-Pm-140

Incident Energy (MeV)

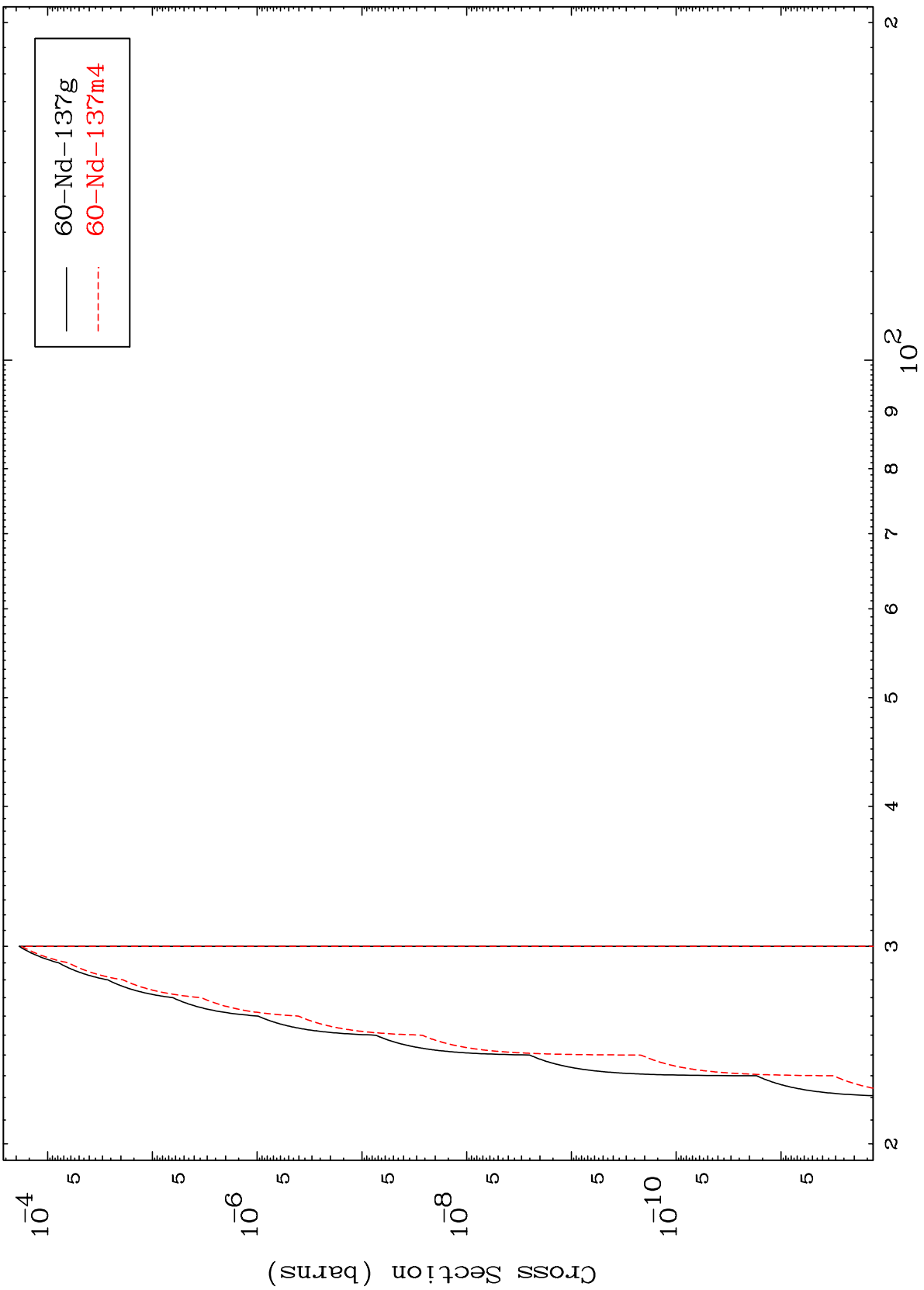
118

MAT 6128

(n,2n) d

61-Pm-140

Radionuclide Production Cross Section



119

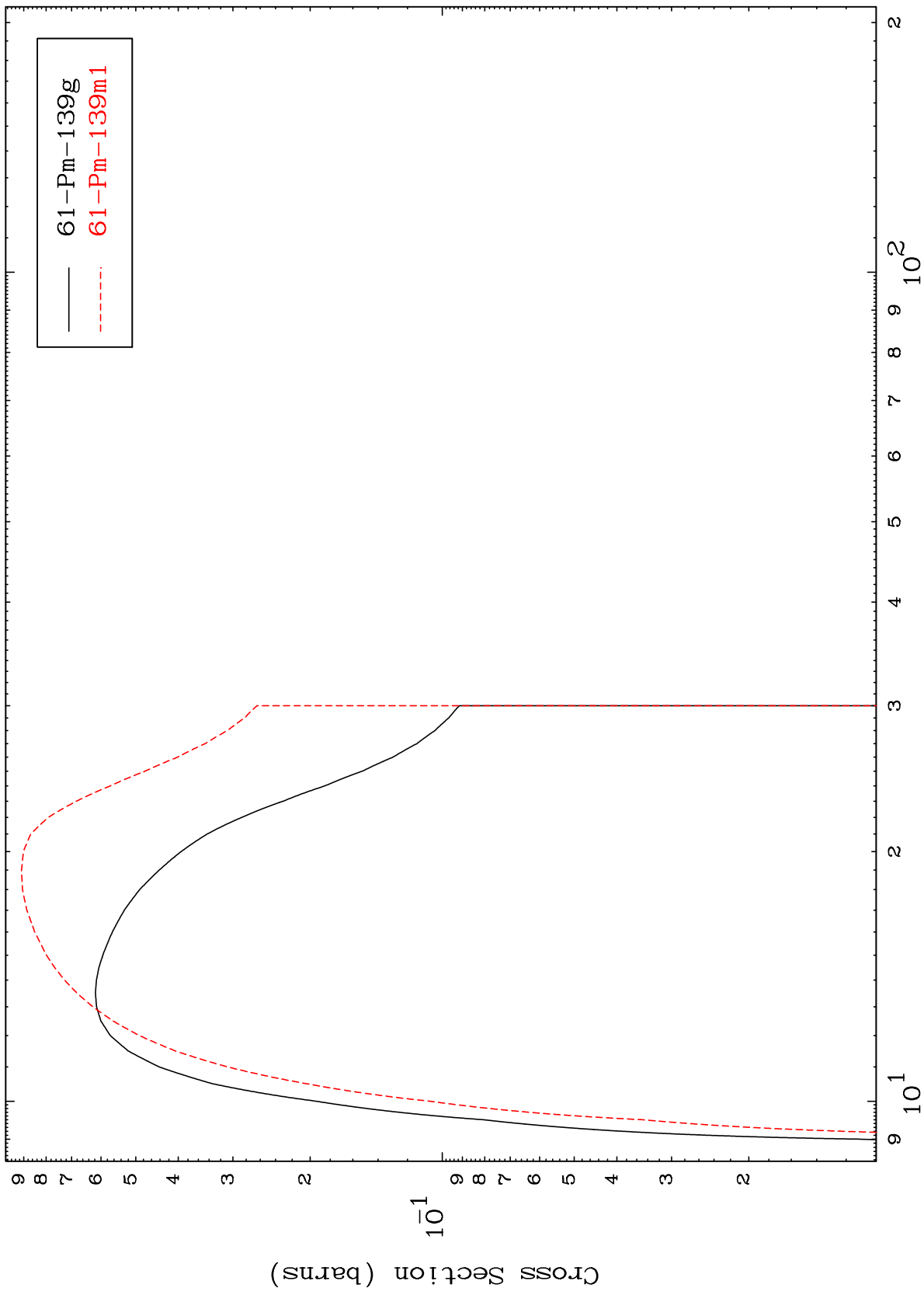
Incident Energy (MeV)

61-Pm-140

MAT 6128

61-Pm-140

(n,2n)
Radionuclide Production Cross Section



61-Pm-140

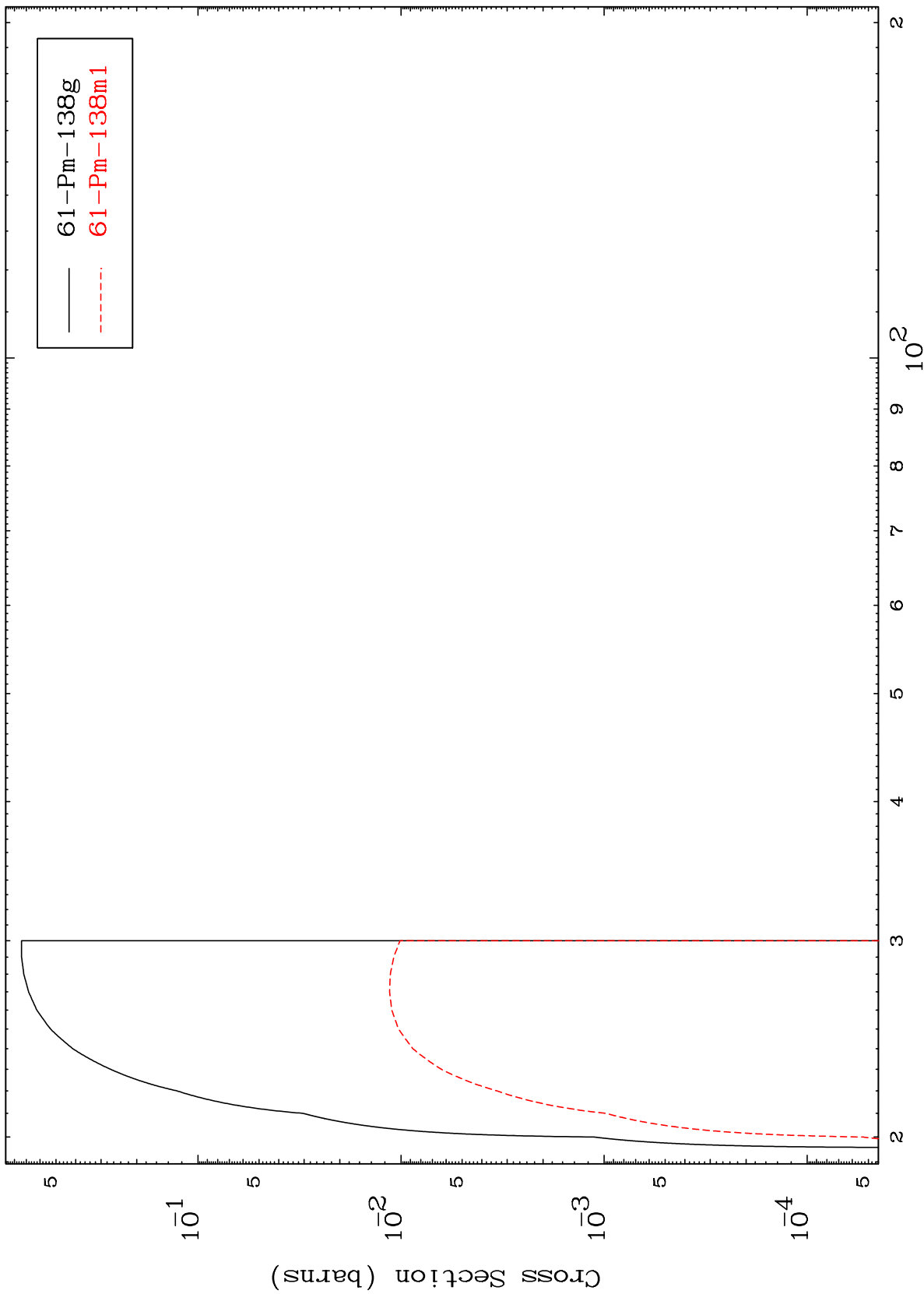
Incident Energy (MeV)

120

MAT 6128

61-Pm-140

(n,3n)
Radionuclide Production Cross Section



61-Pm-140

Incident Energy (MeV)

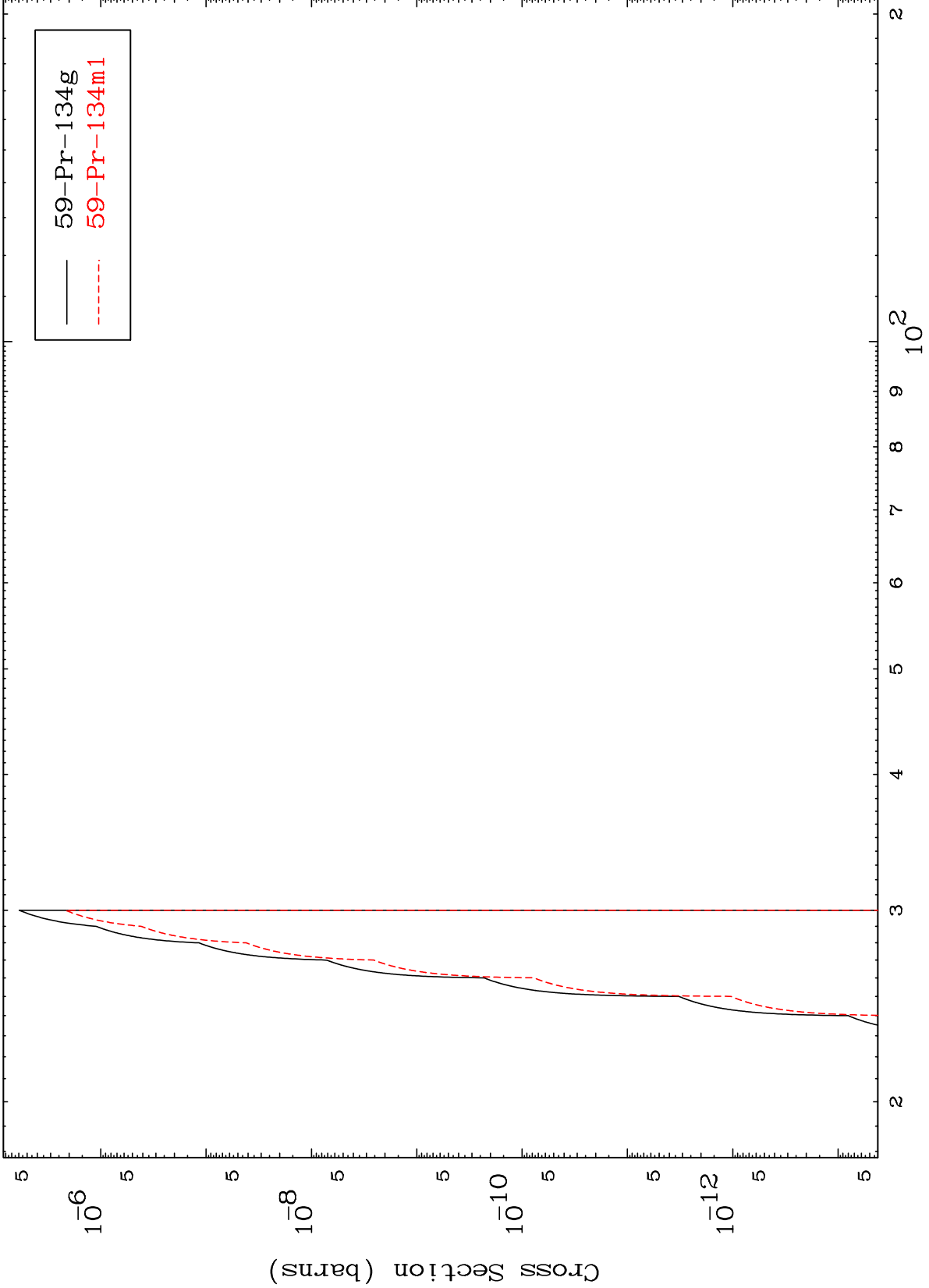
121

MAT 6128

$(n,3n) \alpha$

61-Pm-140

Radionuclide Production Cross Section



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

122

Incident Energy (MeV)

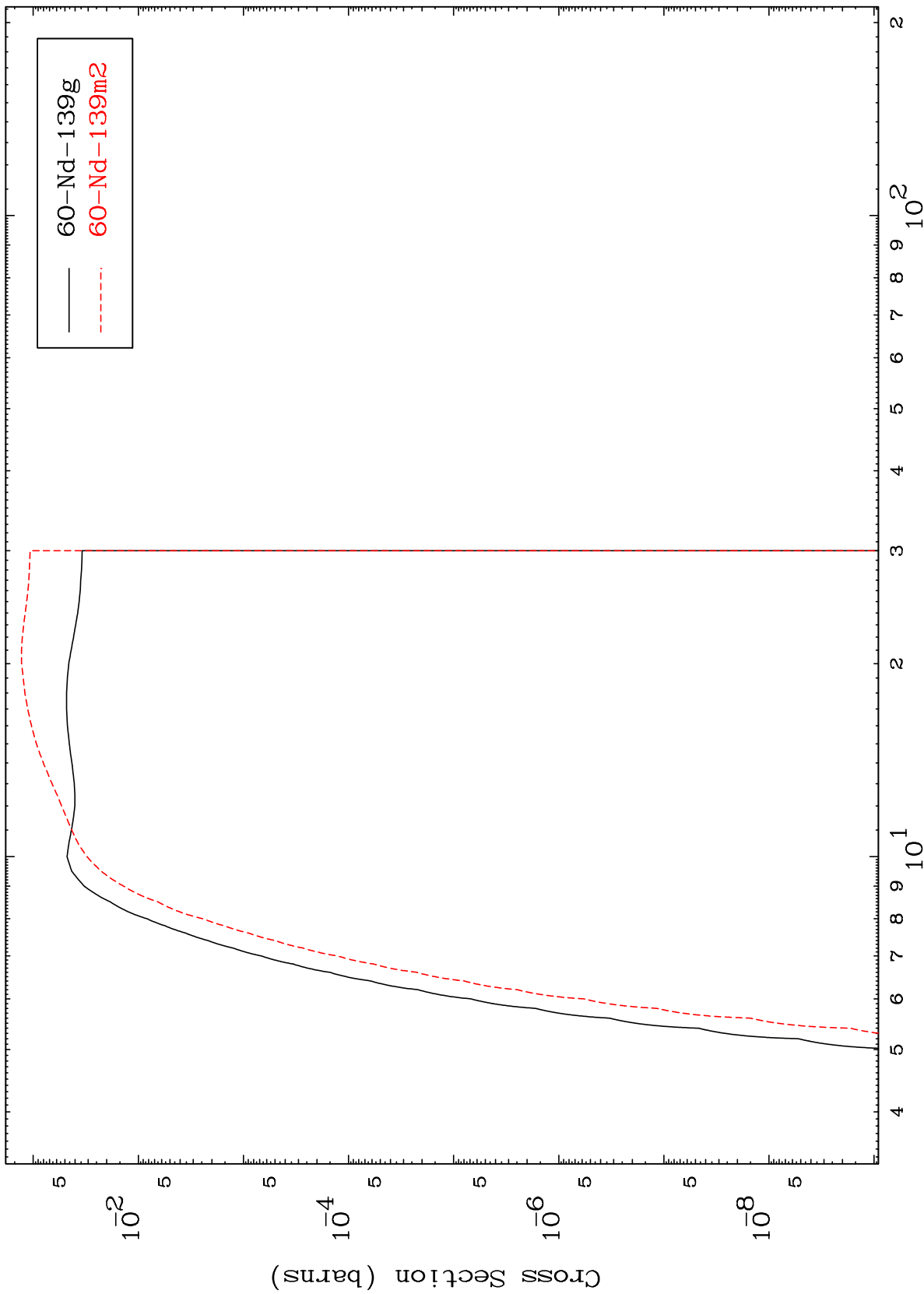
61-Pm-140

MAT 6128

(n,n') p

61-Pm-140

Radionuclide Production Cross Section



123

Incident Energy (MeV)

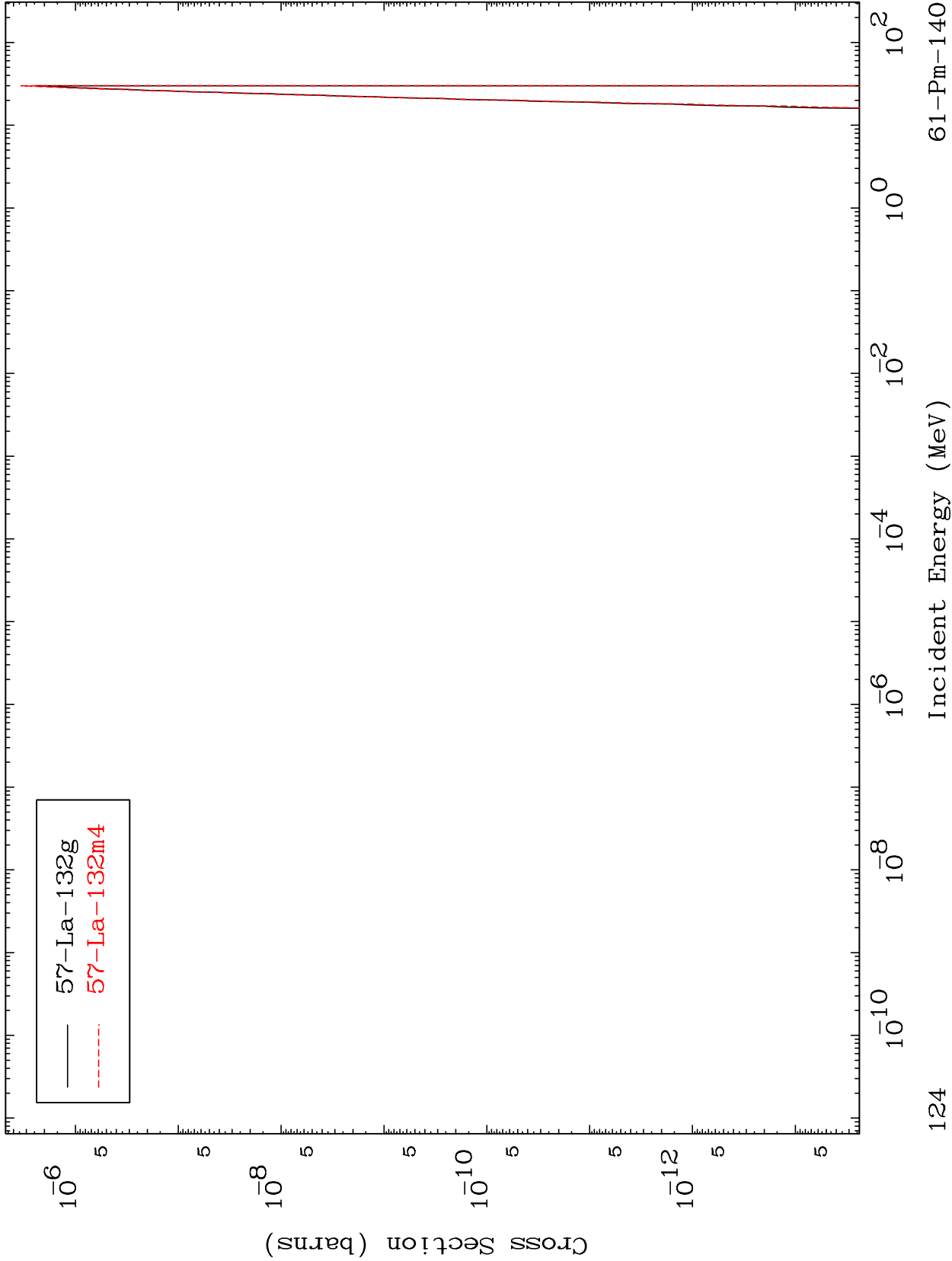
61-Pm-140

MAT 6128

(n,n') 2α

61-Pm-140

Radionuclide Production Cross Section

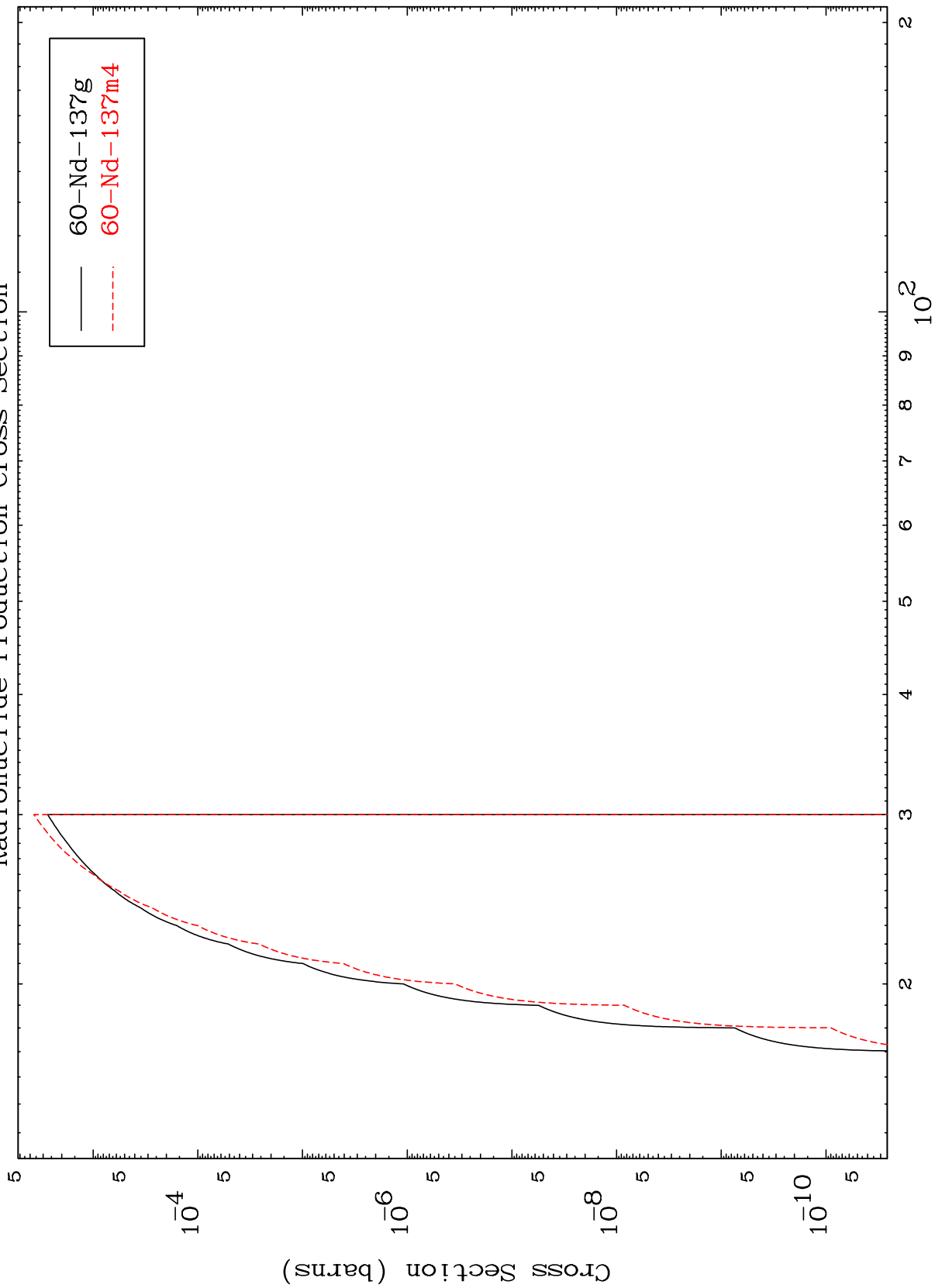


MAT 6128

(n,n') t

61-Pm-140

Radionuclide Production Cross Section

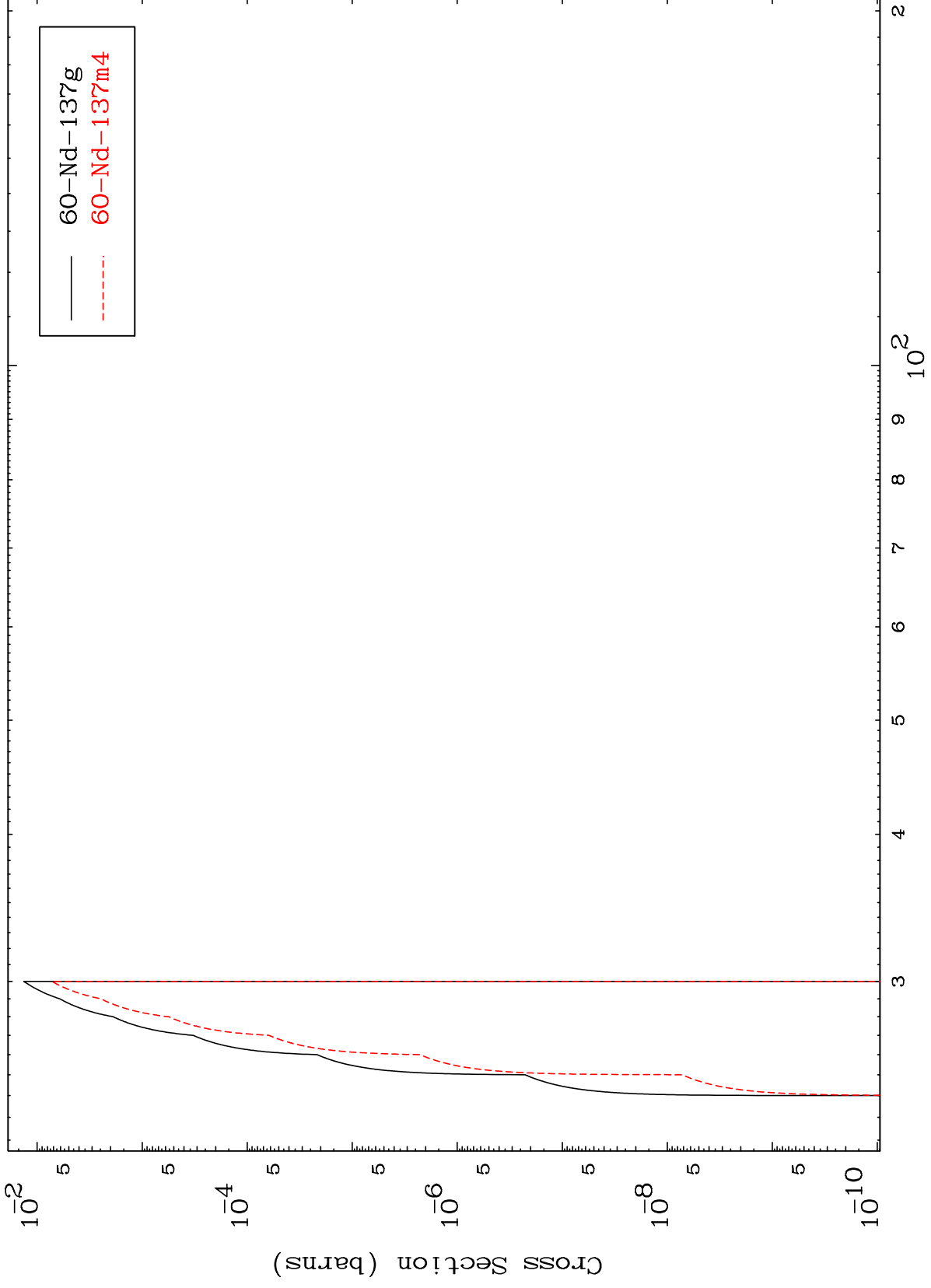


125

Incident Energy (MeV)

61-Pm-140

Radionuclide Production Cross Section

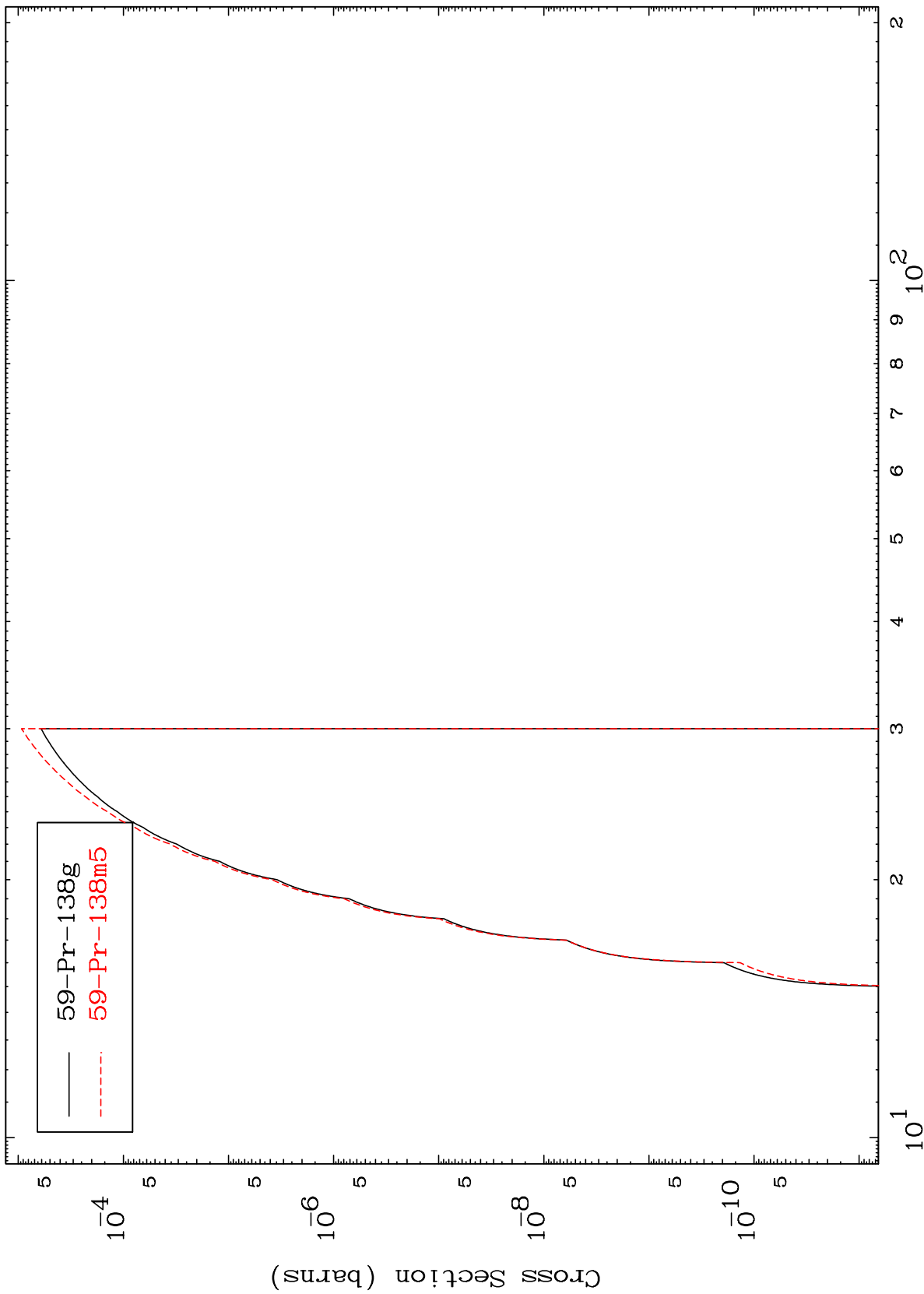


MAT 6128

(n,2n) p

61-Pm-140

Radionuclide Production Cross Section



Incident Energy (MeV)

61-Pm-140

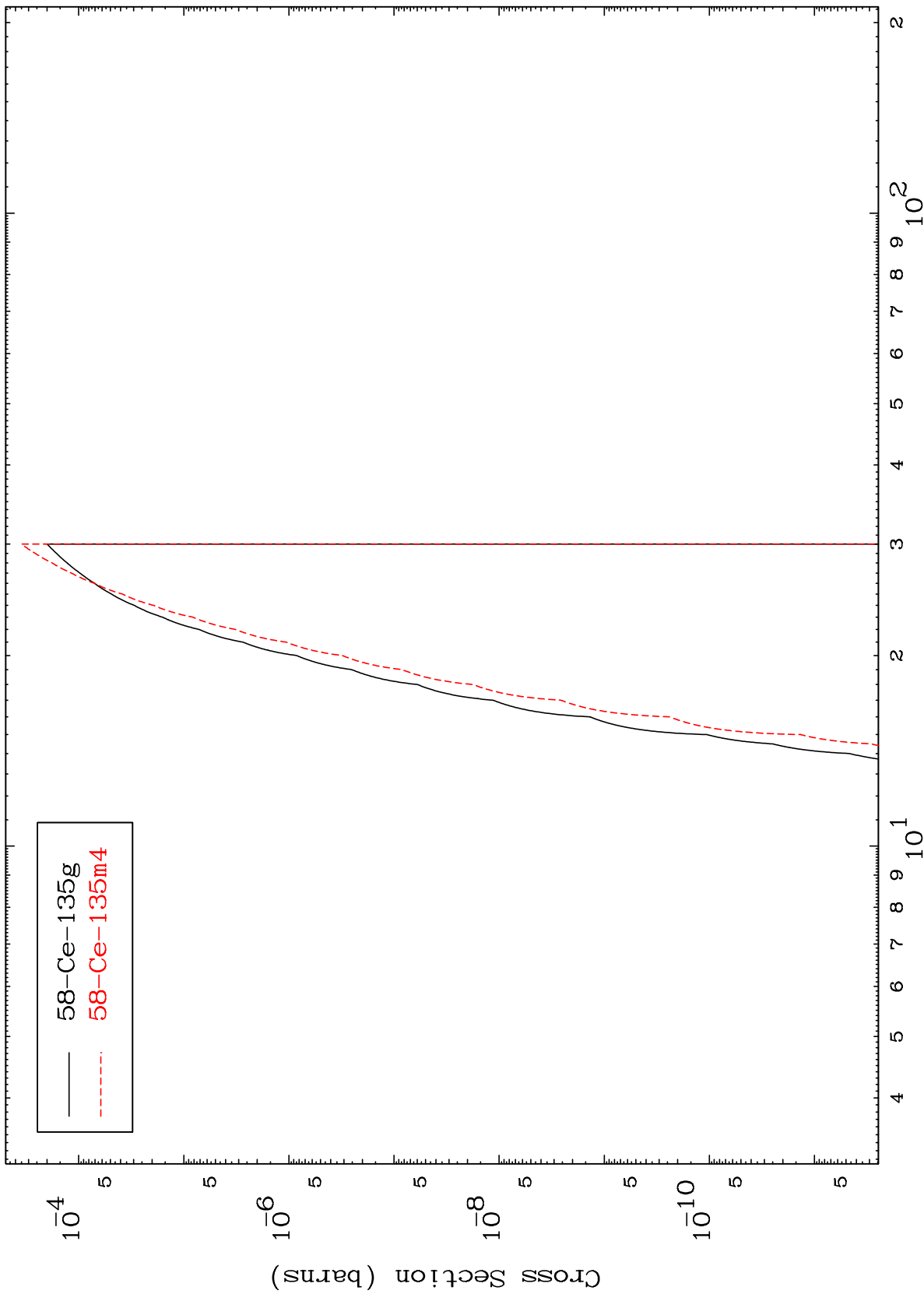
127

MAT 6128

61-Pm-140

(n,n') p α

Radionuclide Production Cross Section



128

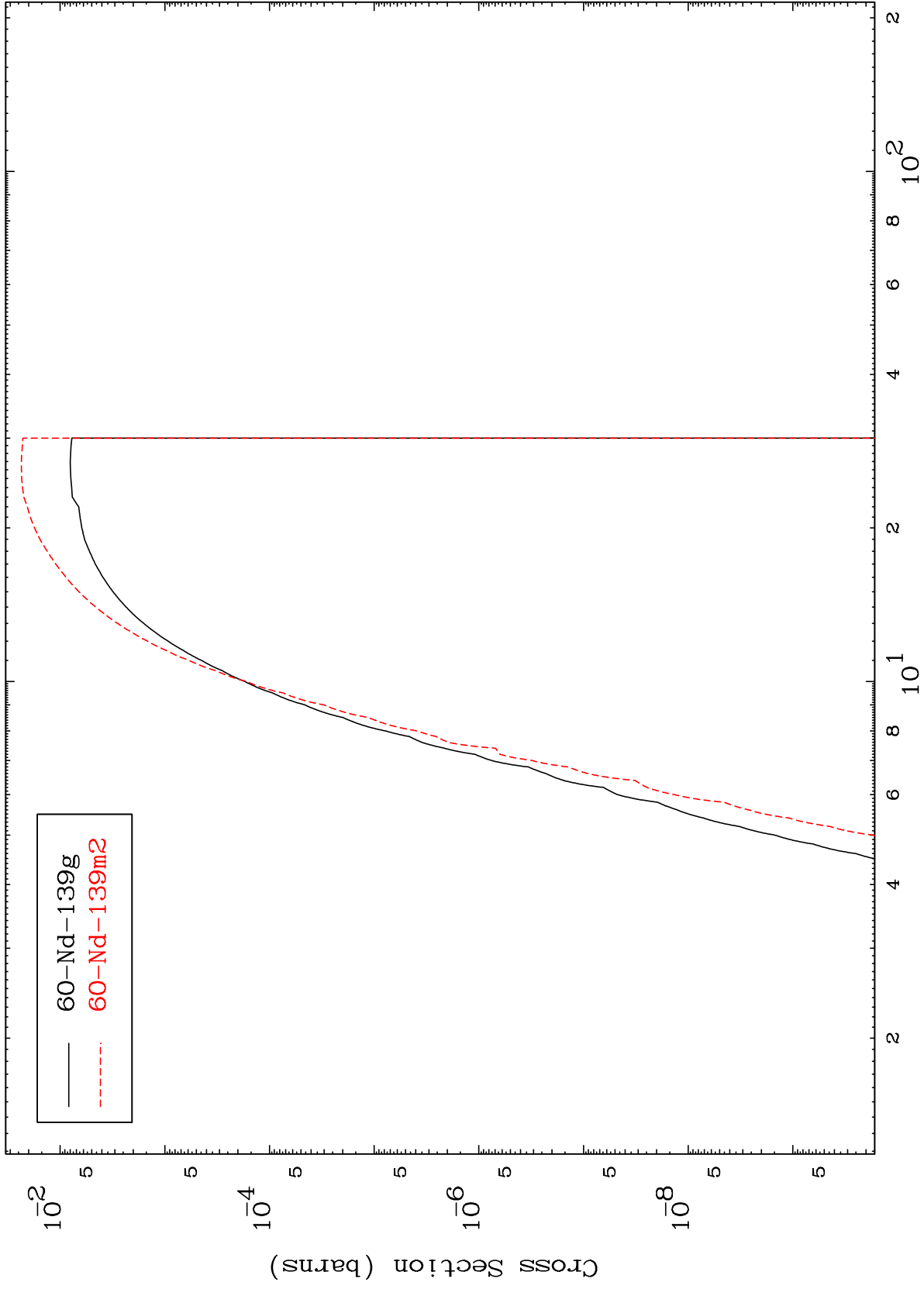
Incident Energy (MeV)

61-Pm-140

MAT 6128

61-Pm-140

(n,d)
Radionuclide Production Cross Section



129

61-Pm-140

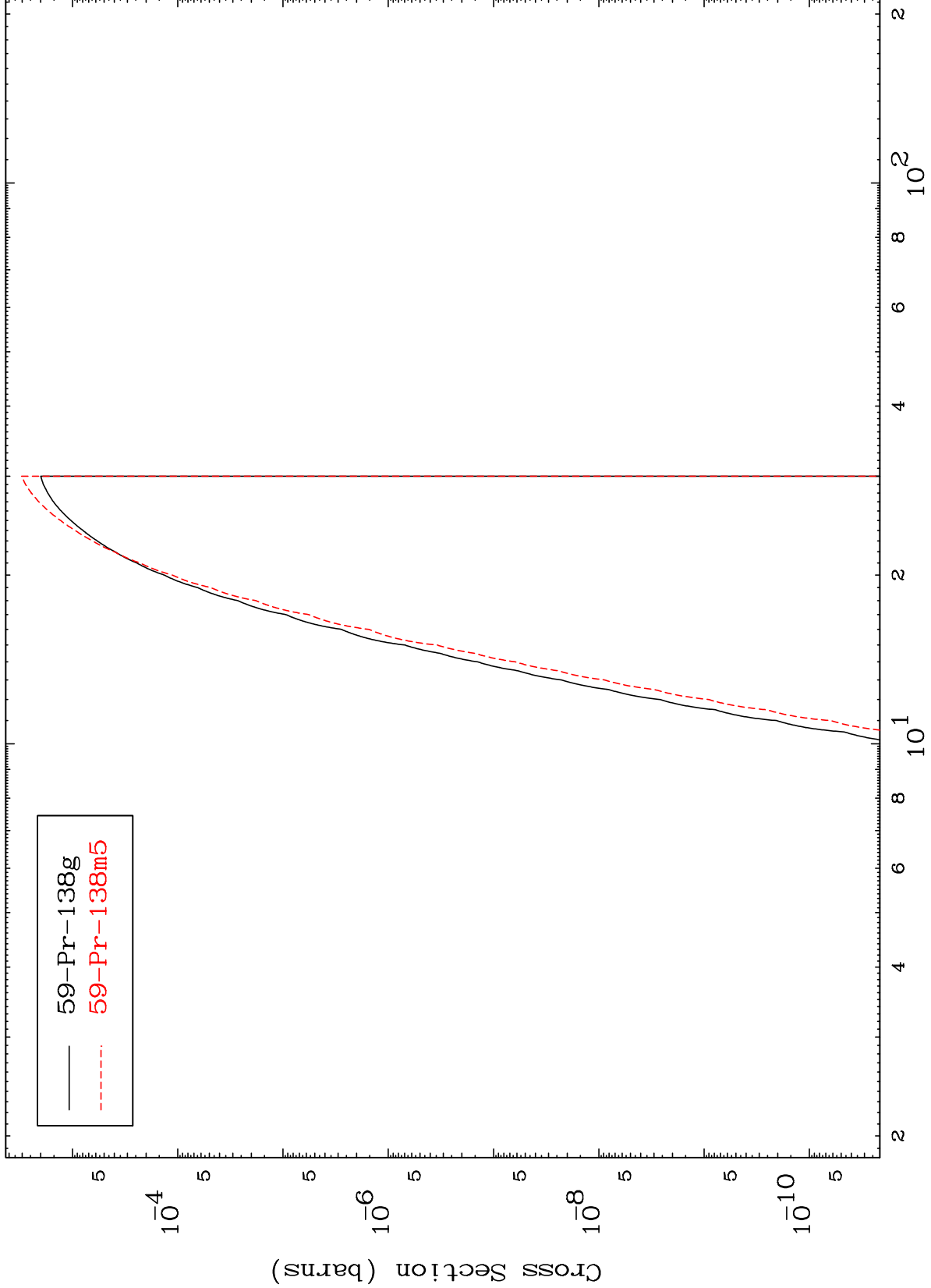
Incident Energy (MeV)

MAT 6128

(n,He-3)

61-Pm-140

Radionuclide Production Cross Section



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

130

Incident Energy (MeV)

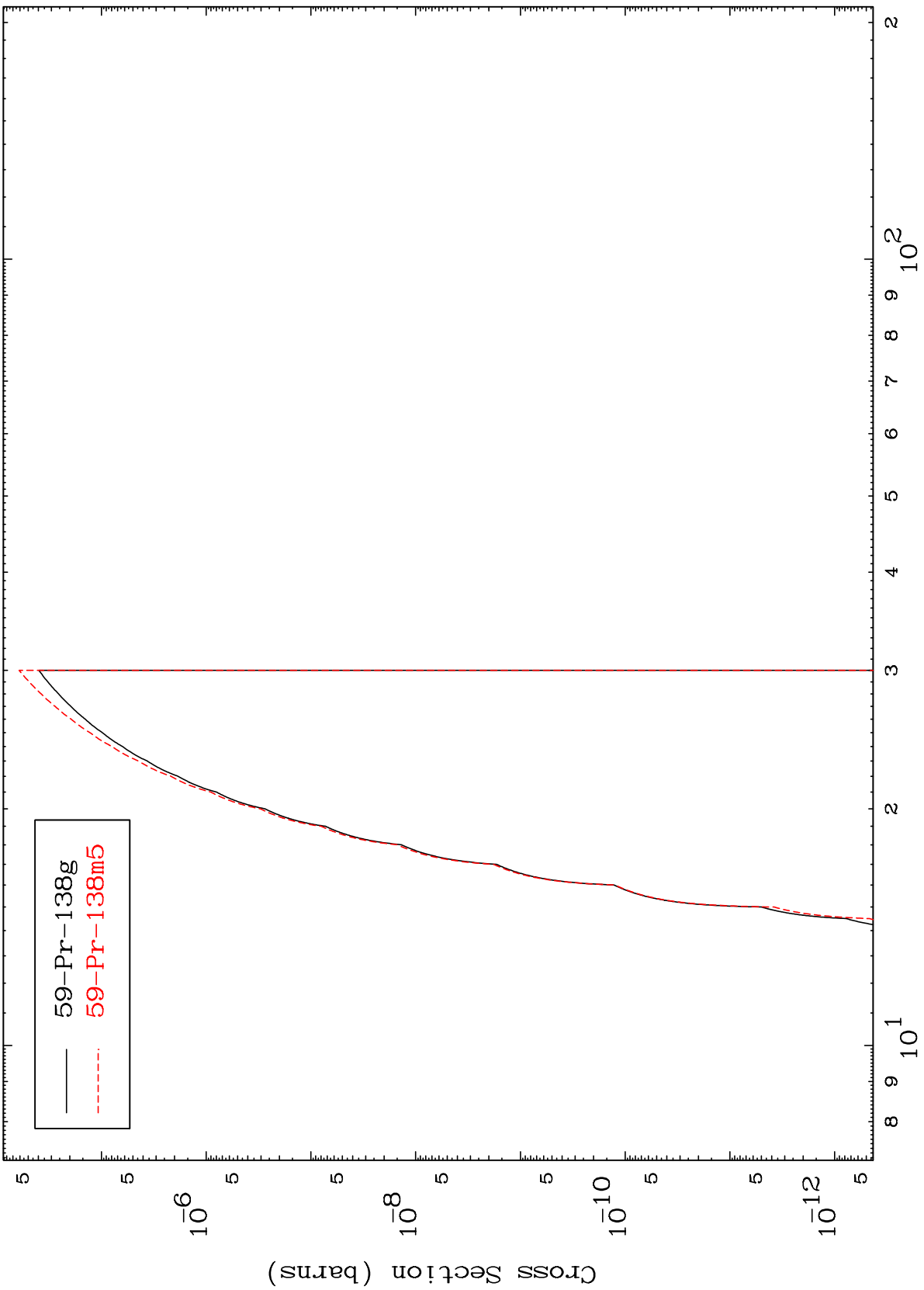
61-Pm-140

MAT 6128

(n,p) d

61-Pm-140

Radionuclide Production Cross Section



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

131

Incident Energy (MeV)

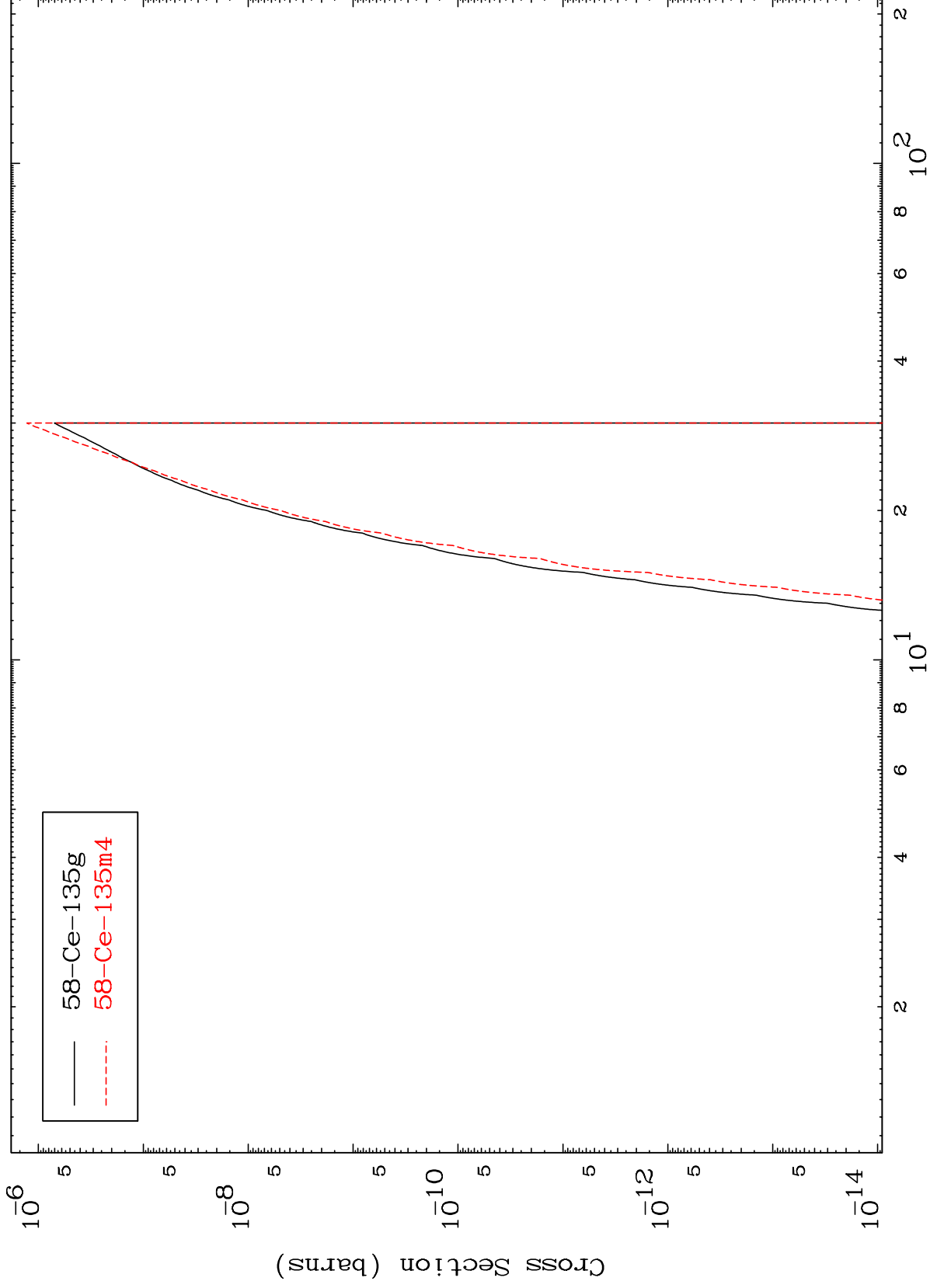
61-Pm-140

MAT 6128

(n,d) α

61-Pm-140

Radionuclide Production Cross Section



132

Incident Energy (MeV)

61-Pm-140