

Program EVALPLOT  
(Version 2017-1)

by

Dermott E. Cullen  
(Present Contact Information)

Dermott E. Cullen  
1466 Hudson Way  
Livermore, CA 94550  
U.S.A.

Tele: 925-443-1911

E.Mail:redcullen1@comcast.net

Web:redcullen1.net/HOMEPAGE.NEW

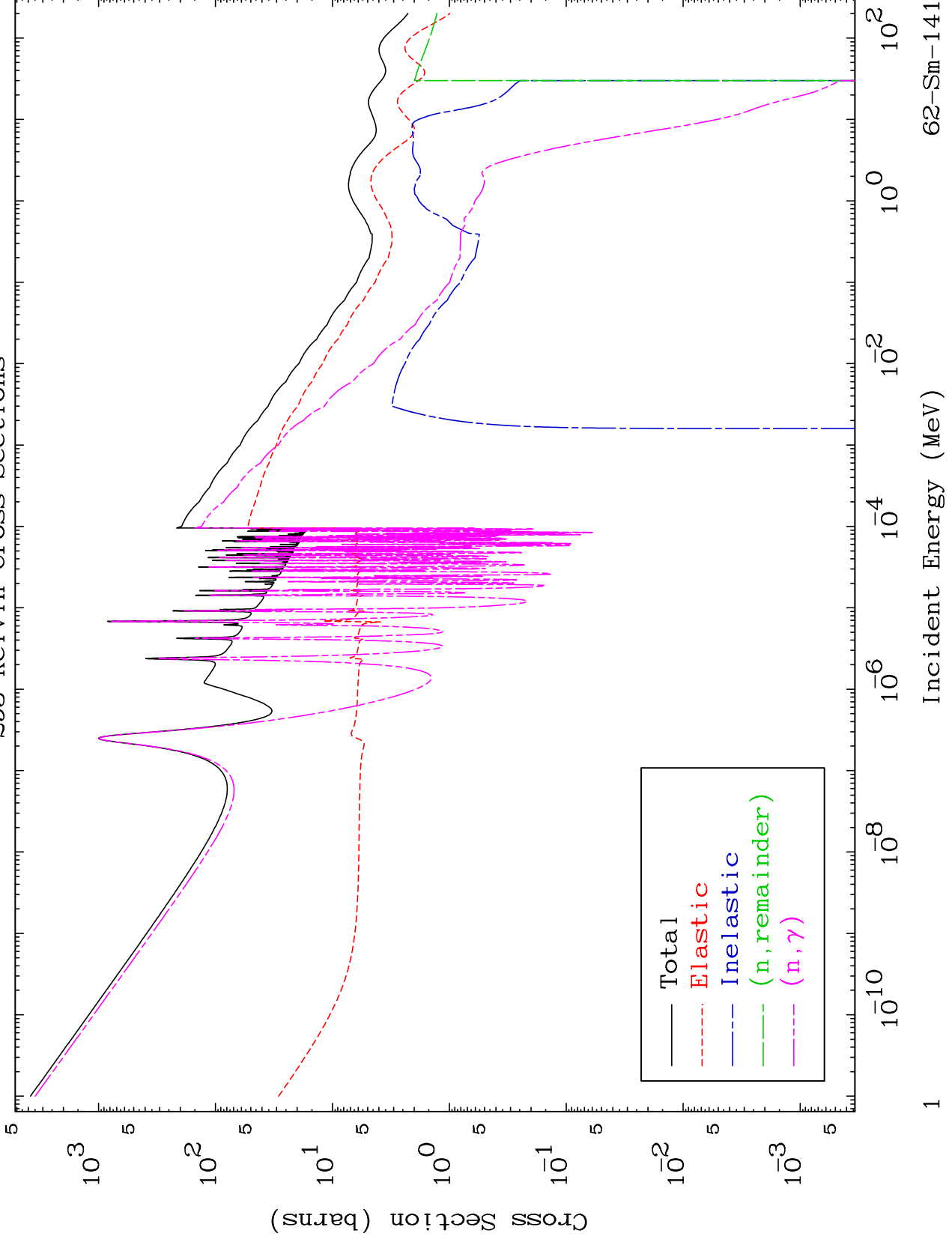
Press Mouse Button to Start

MAT 6216

Major

293 Kelvin Cross Sections

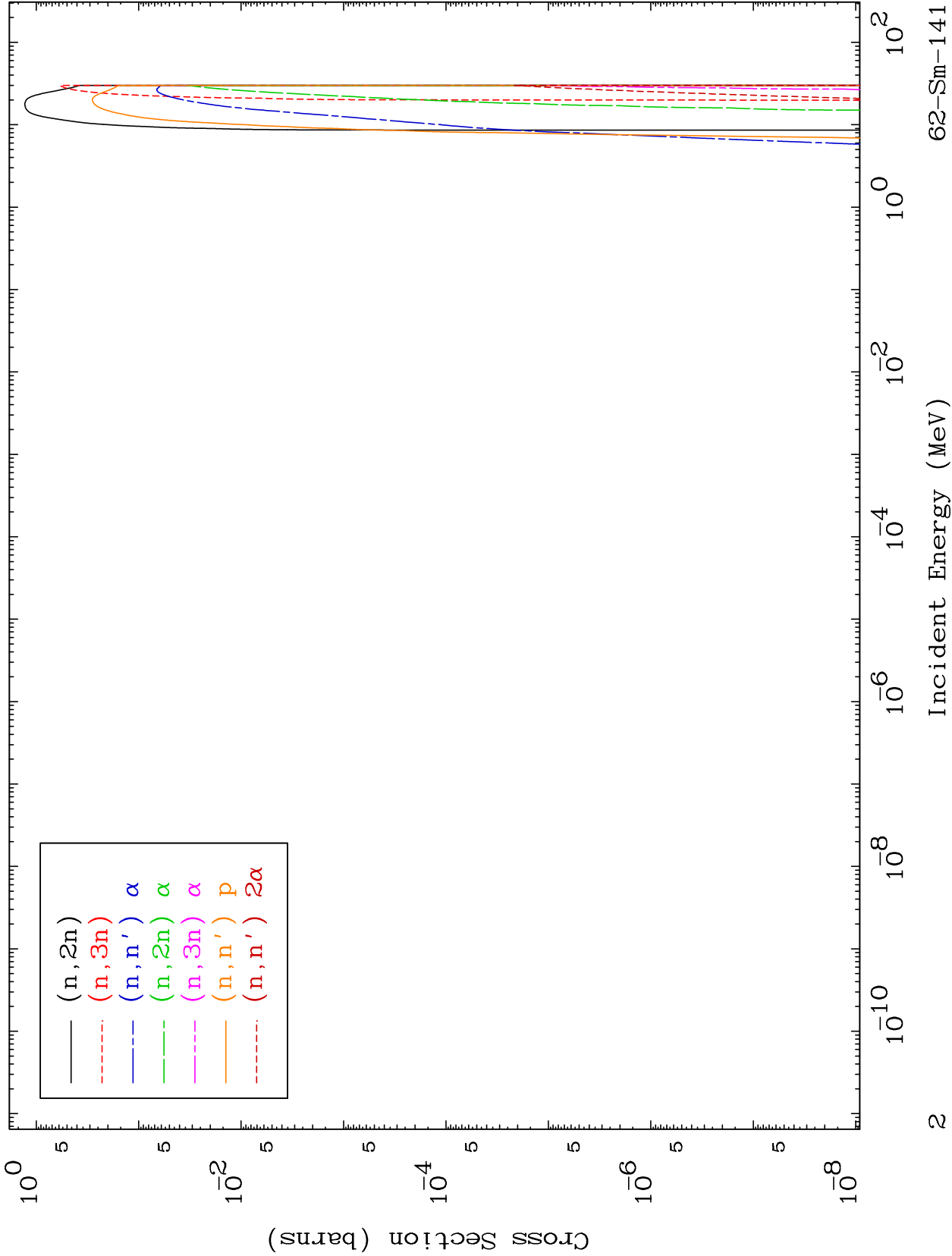
62-Sm-141

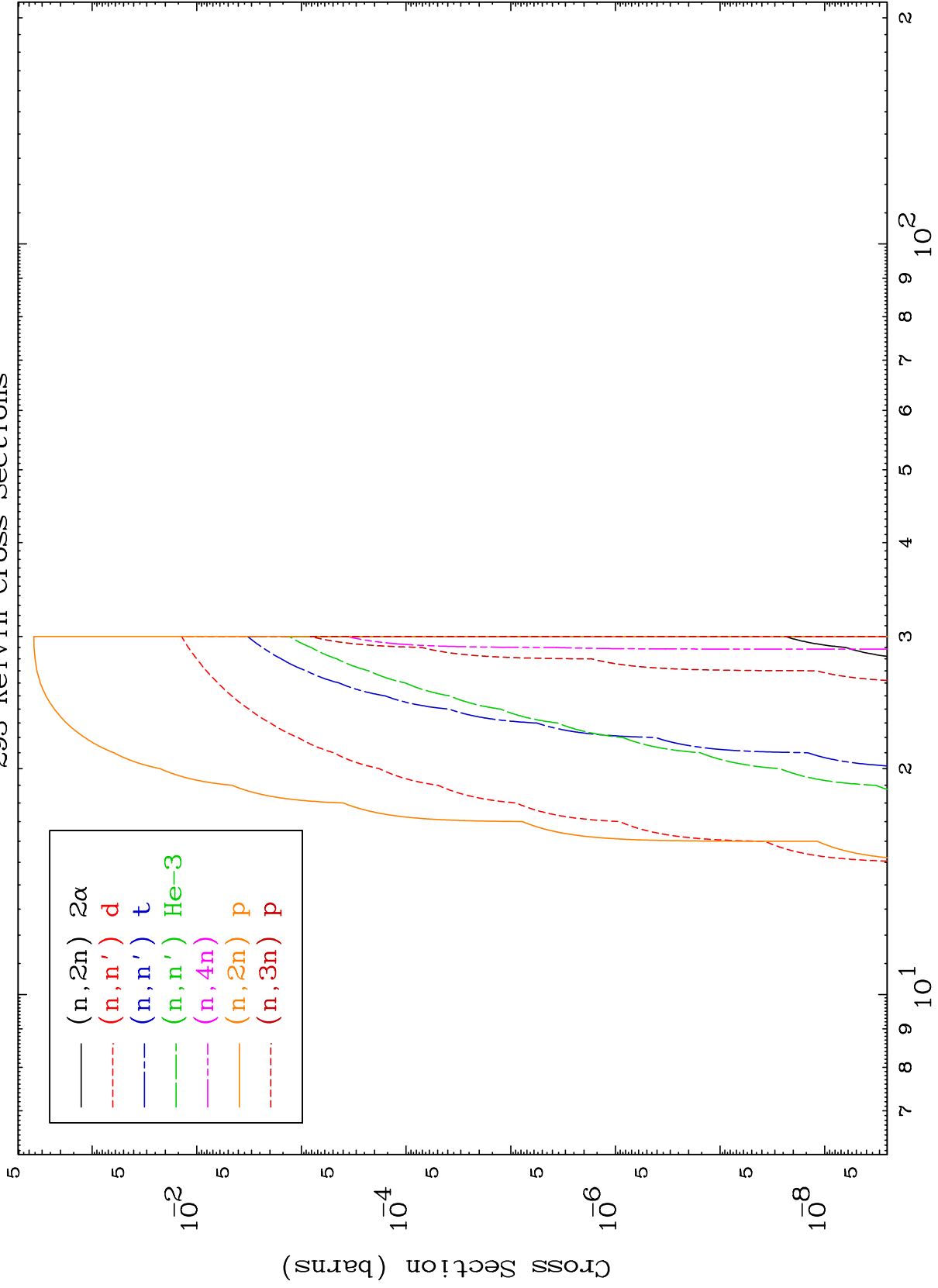


MAT 6216

Neutron Production  
293 Kelvin Cross Sections

62-Sm-141

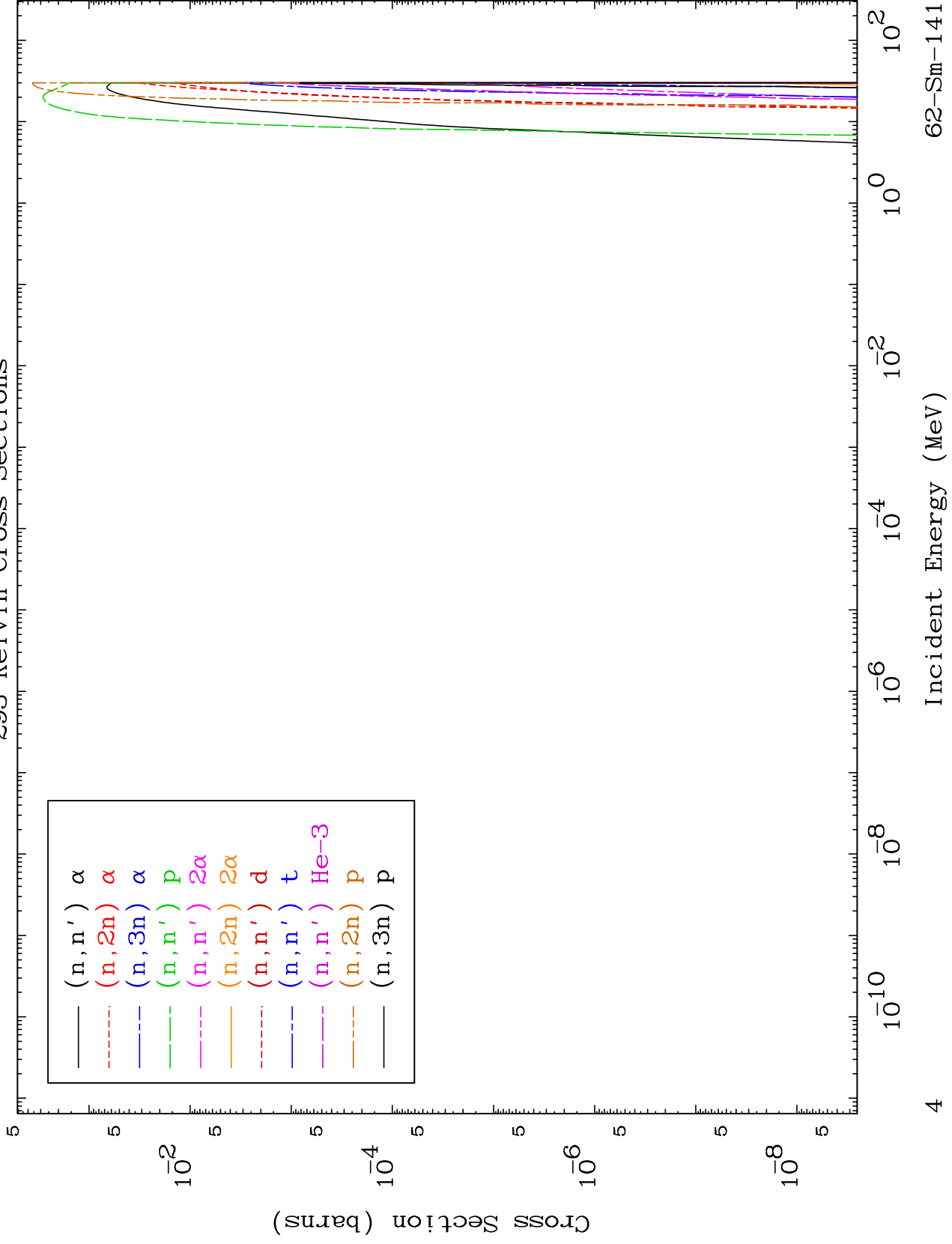




MAT 6216

Charged Particle  
293 Kelvin Cross Sections

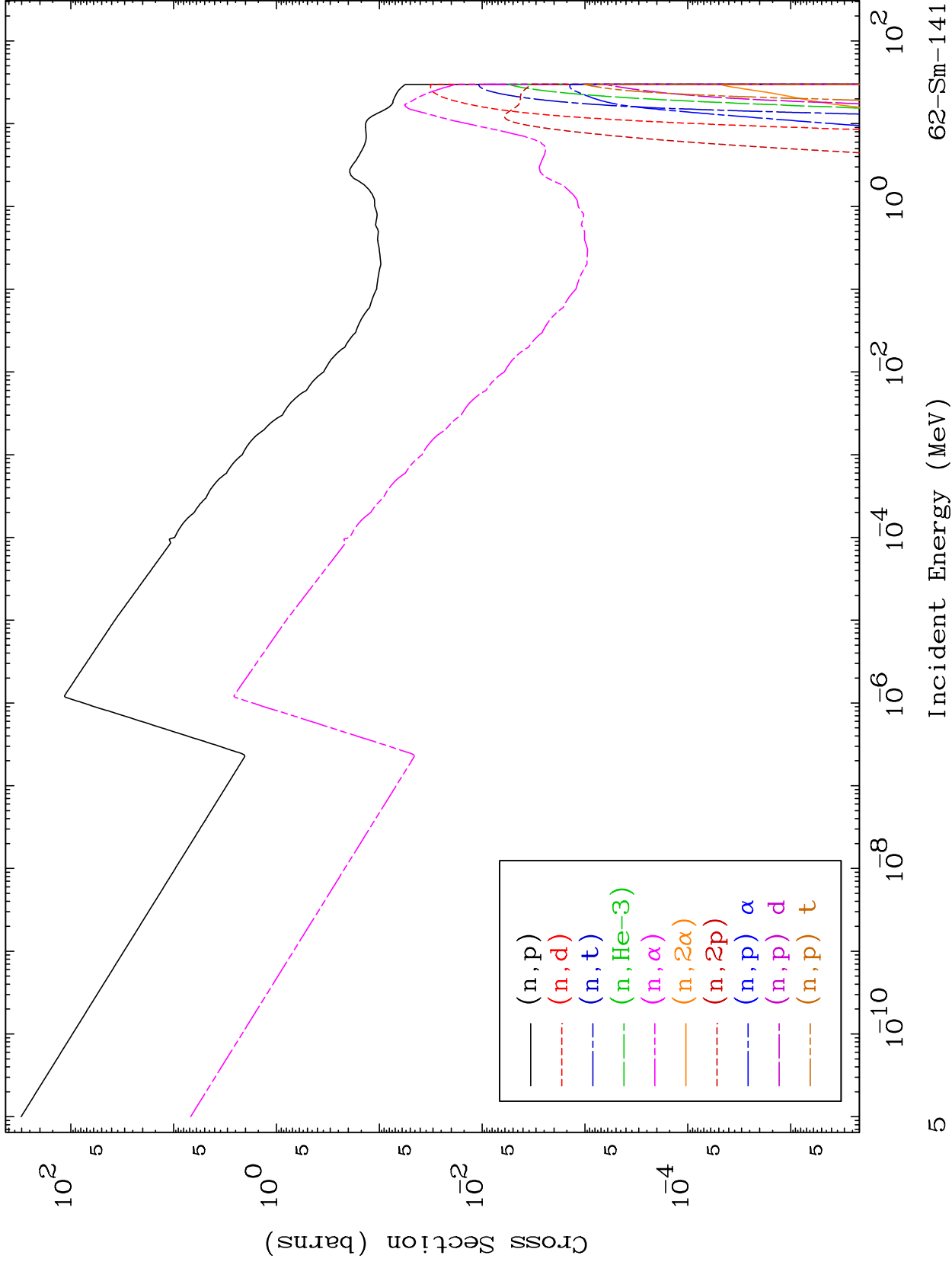
62-Sm-141



MAT 6216

Charged Particle  
293 Kelvin Cross Sections

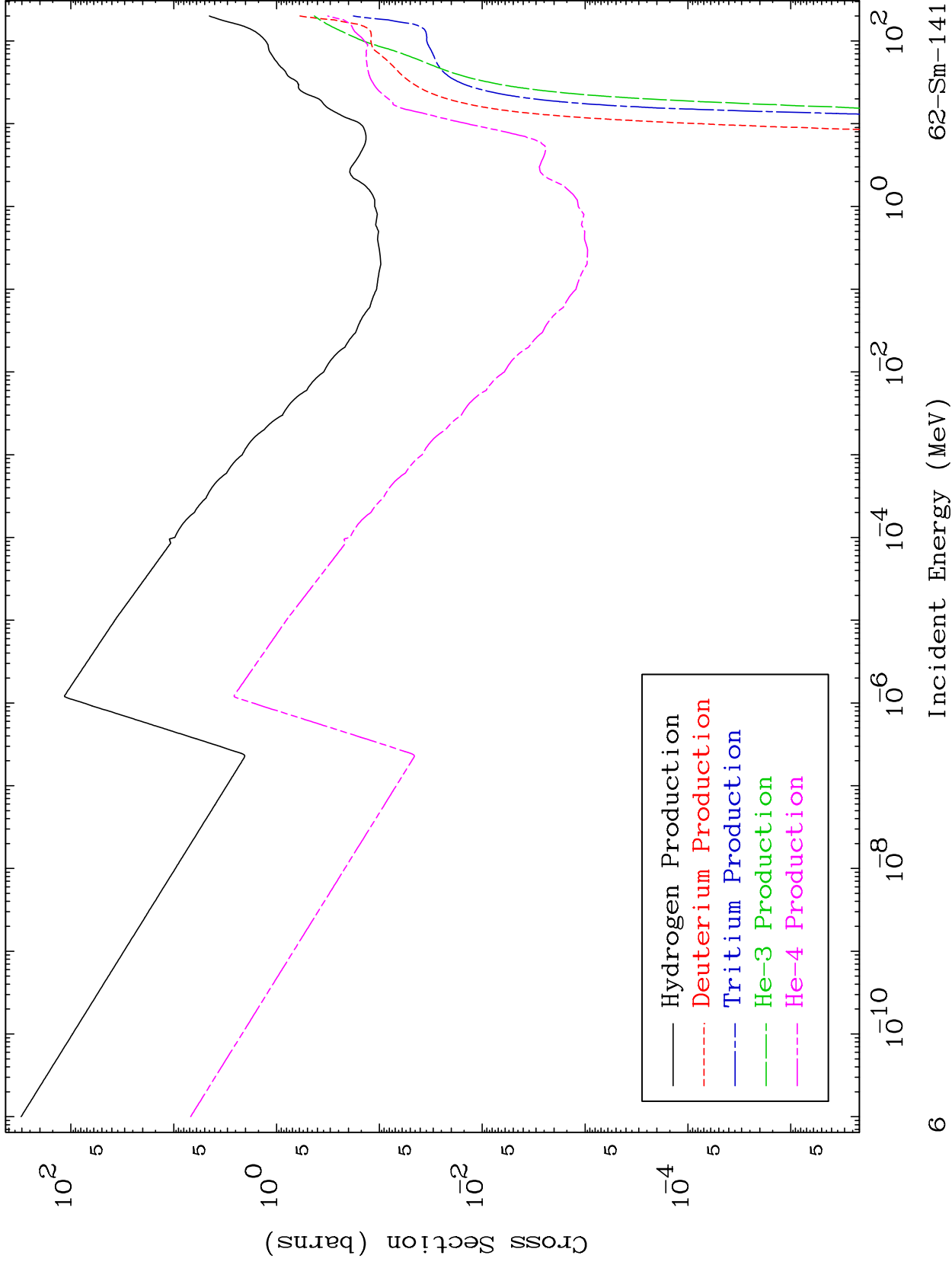
62-Sm-141



MAT 6216

Particle Production  
293 Kelvin Cross Sections

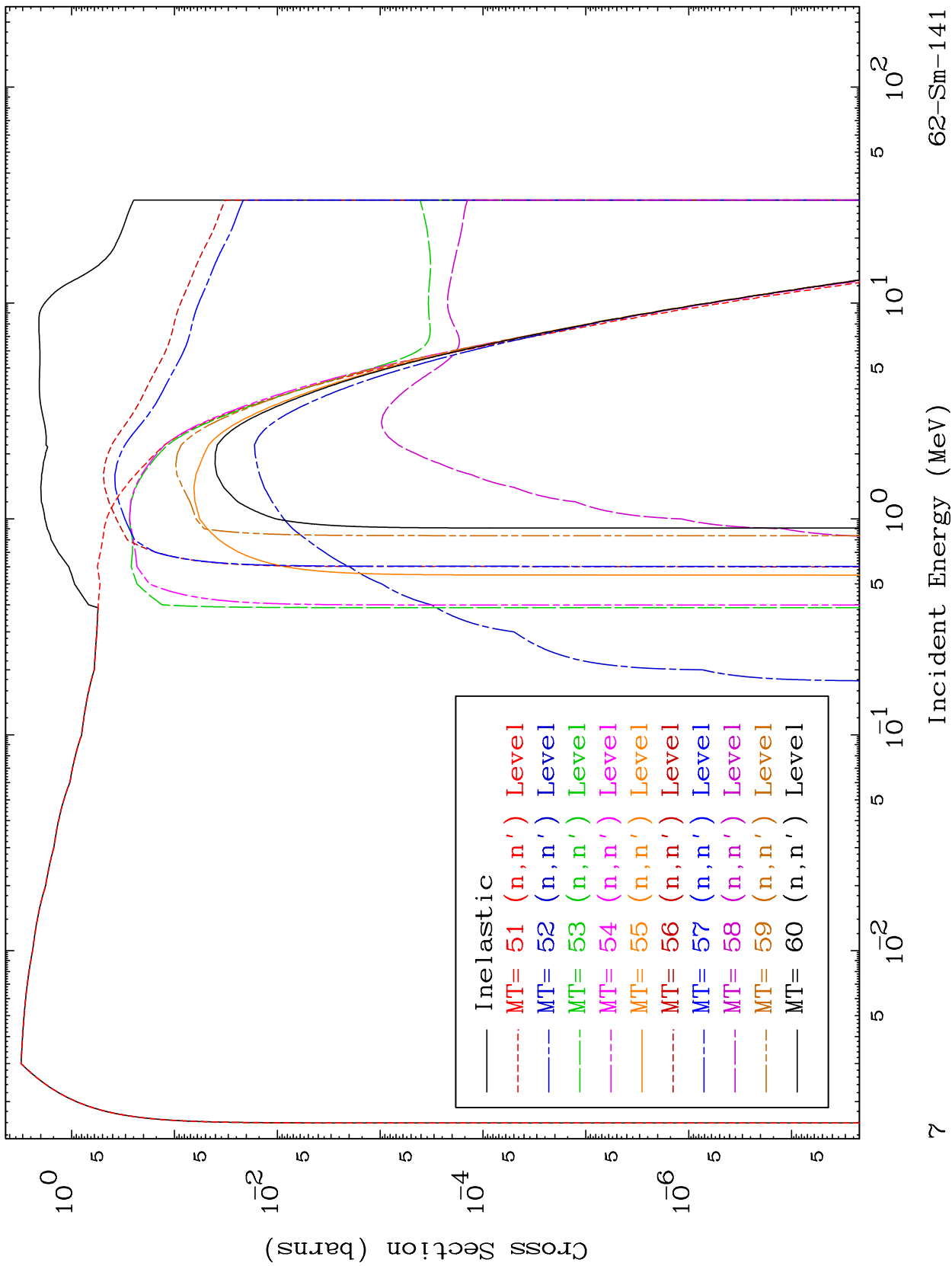
62-Sm-141



MAT 6216

62-Sm-141

(n,n') Level  
293 Kelvin Cross Sections



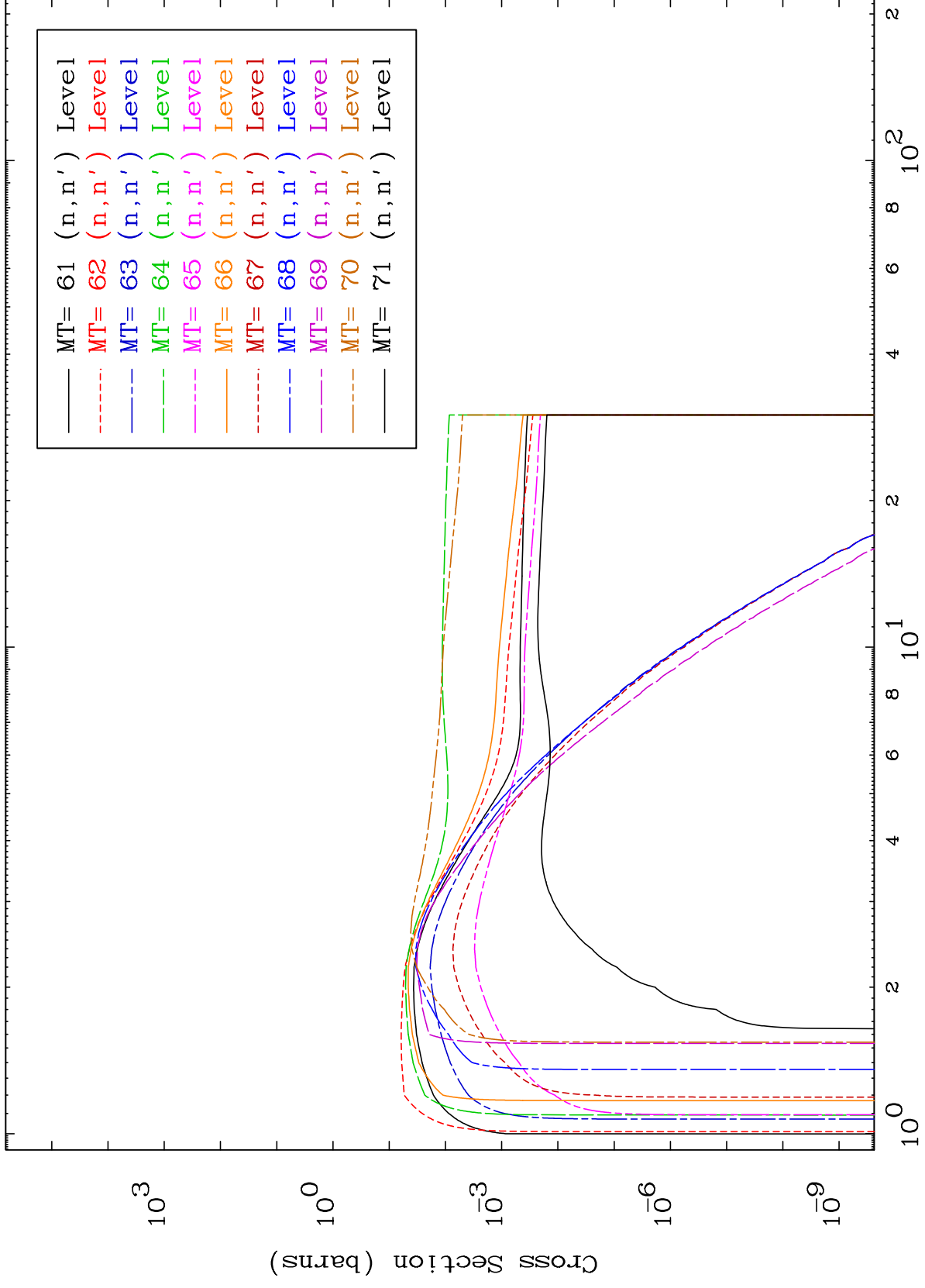


MAT 6216

(n,n') Level

62-Sm-141

293 Kelvin Cross Sections



Incident Energy (MeV)

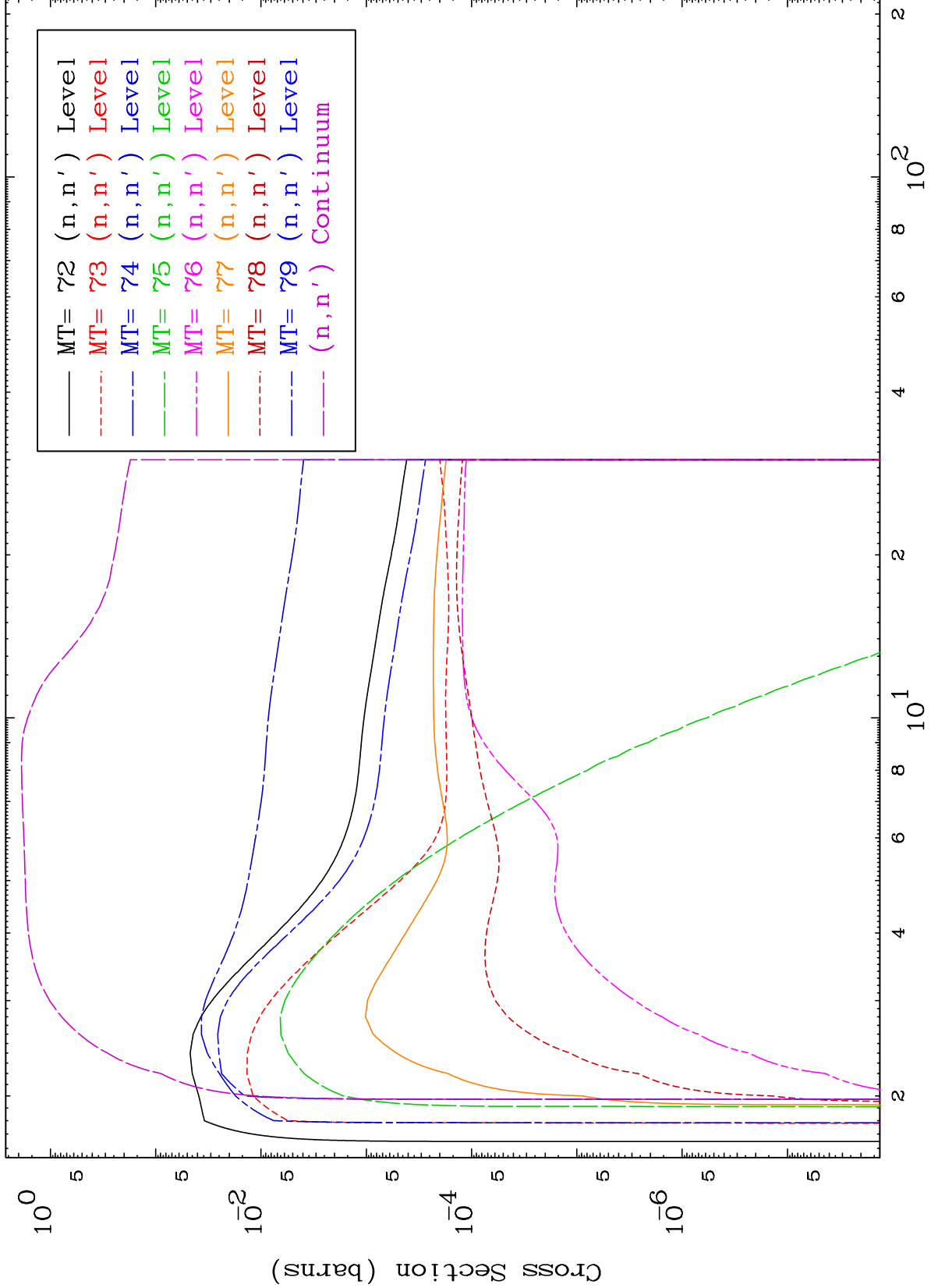
62-Sm-141

MAT 6216

(n,n') Level

62-Sm-141

293 Kelvin Cross Sections



9

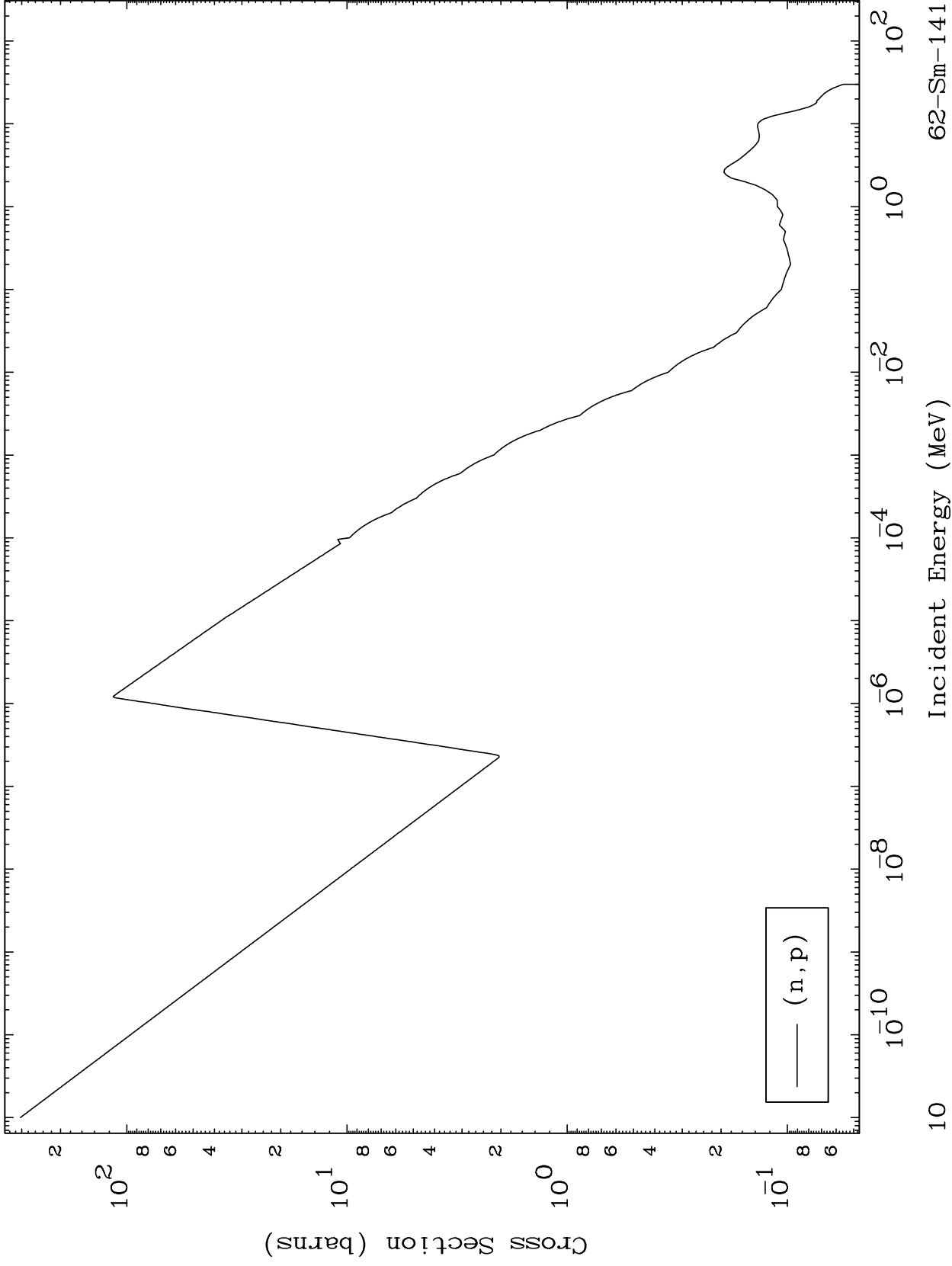
Incident Energy (MeV)

62-Sm-141

MAT 6216

(n,p) Levels  
293 Kelvin Cross Sections

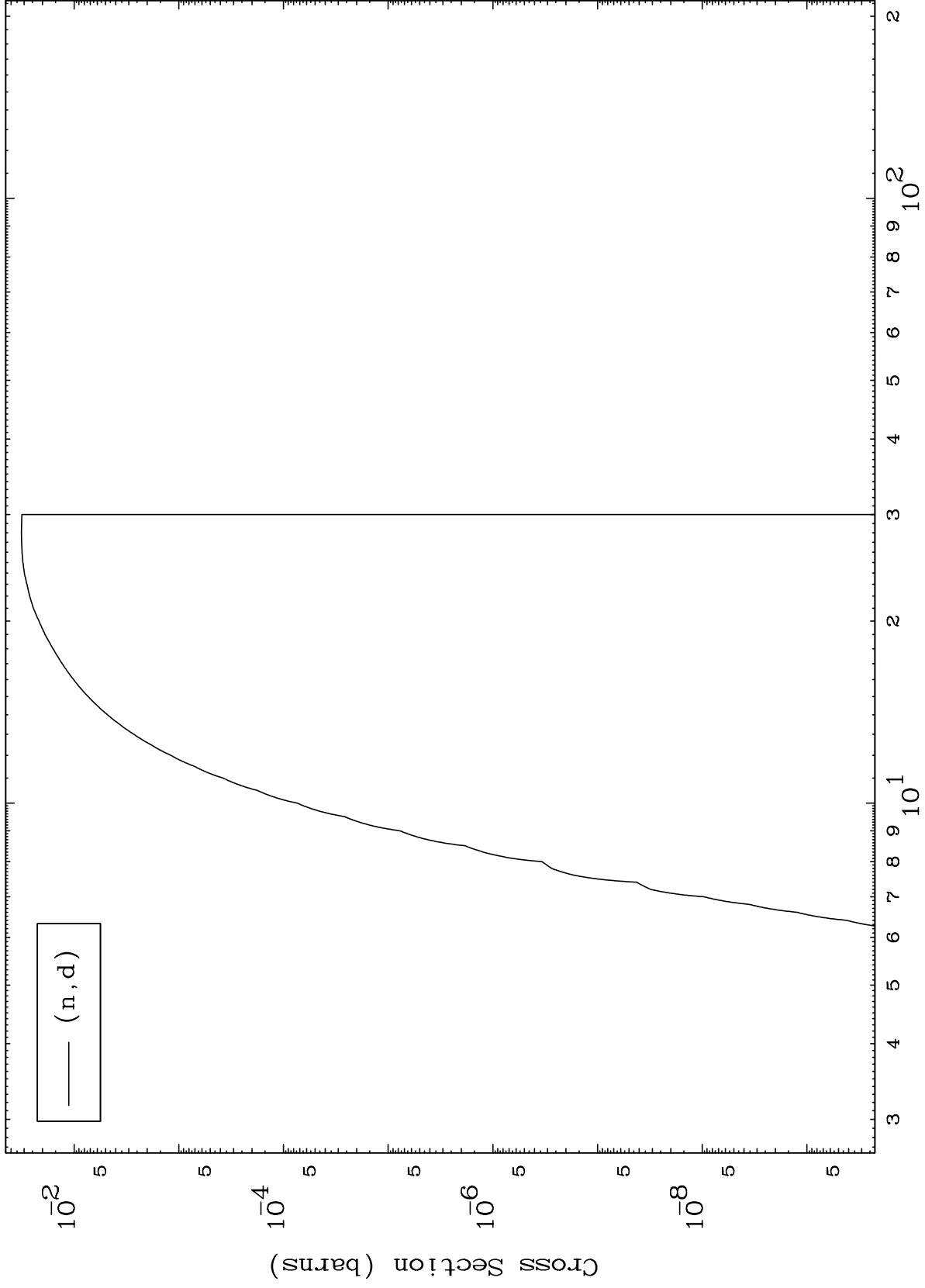
62-Sm-141



MAT 6216

(n,d) Levels  
293 Kelvin Cross Sections

62-Sm-141



11

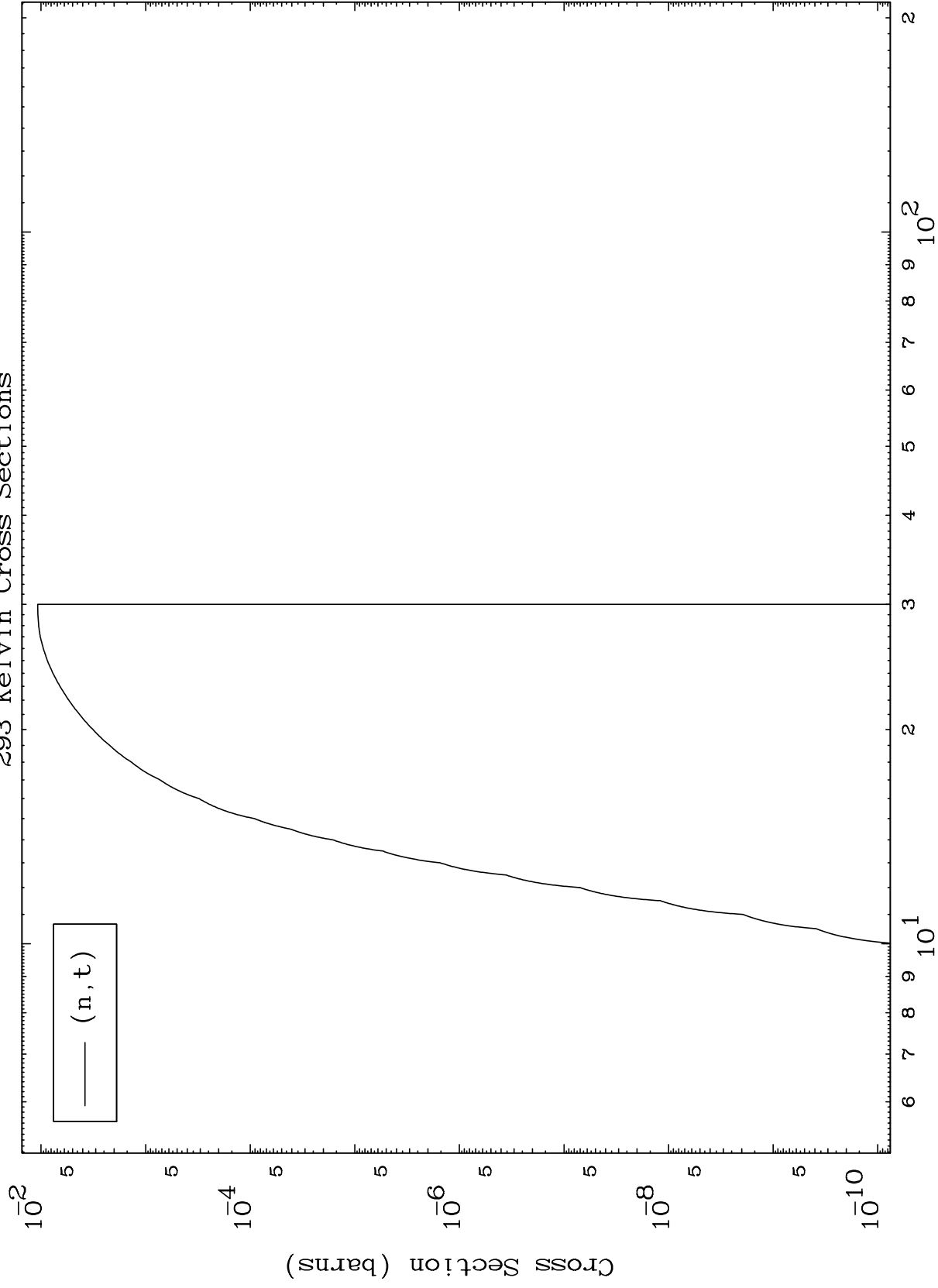
Incident Energy (MeV)

62-Sm-141

MAT 6216

(n,t) Levels  
293 Kelvin Cross Sections

62-Sm-141



12

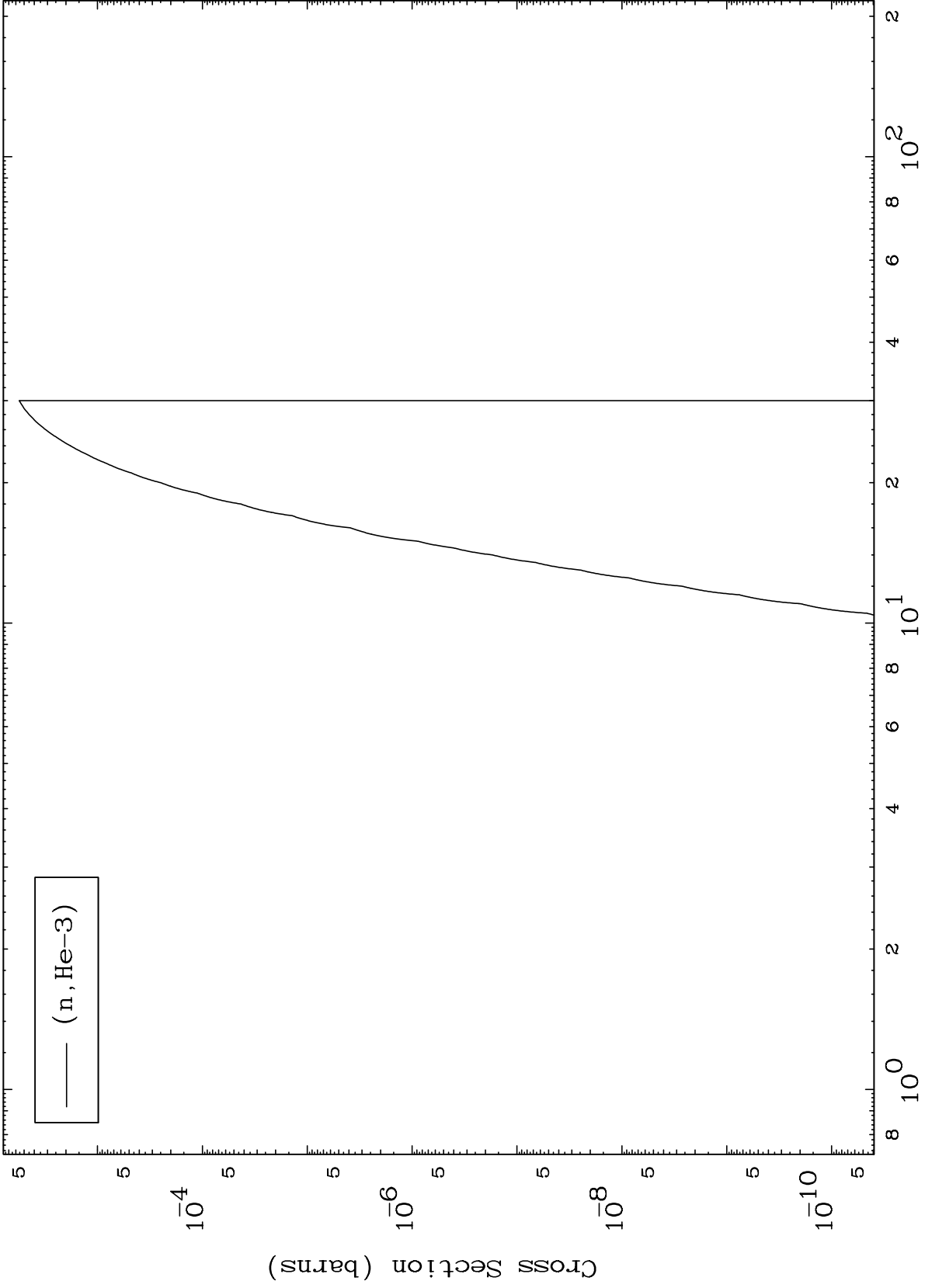
Incident Energy (MeV)

62-Sm-141

MAT 6216

(n,He3) Levels  
293 Kelvin Cross Sections

62-Sm-141



13

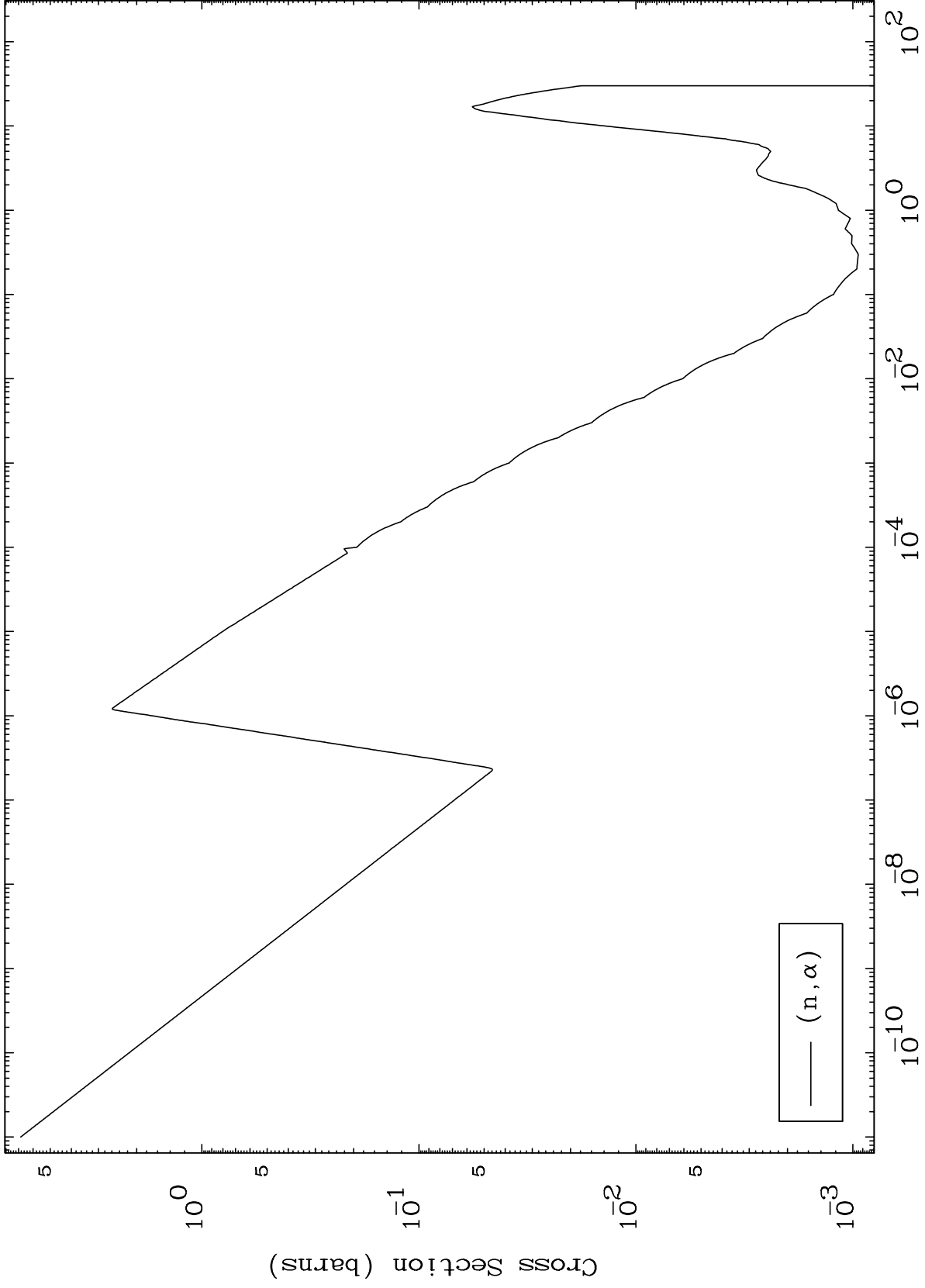
Incident Energy (MeV)

62-Sm-141

MAT 6216

(n,  $\alpha$ ) Levels  
293 Kelvin Cross Sections

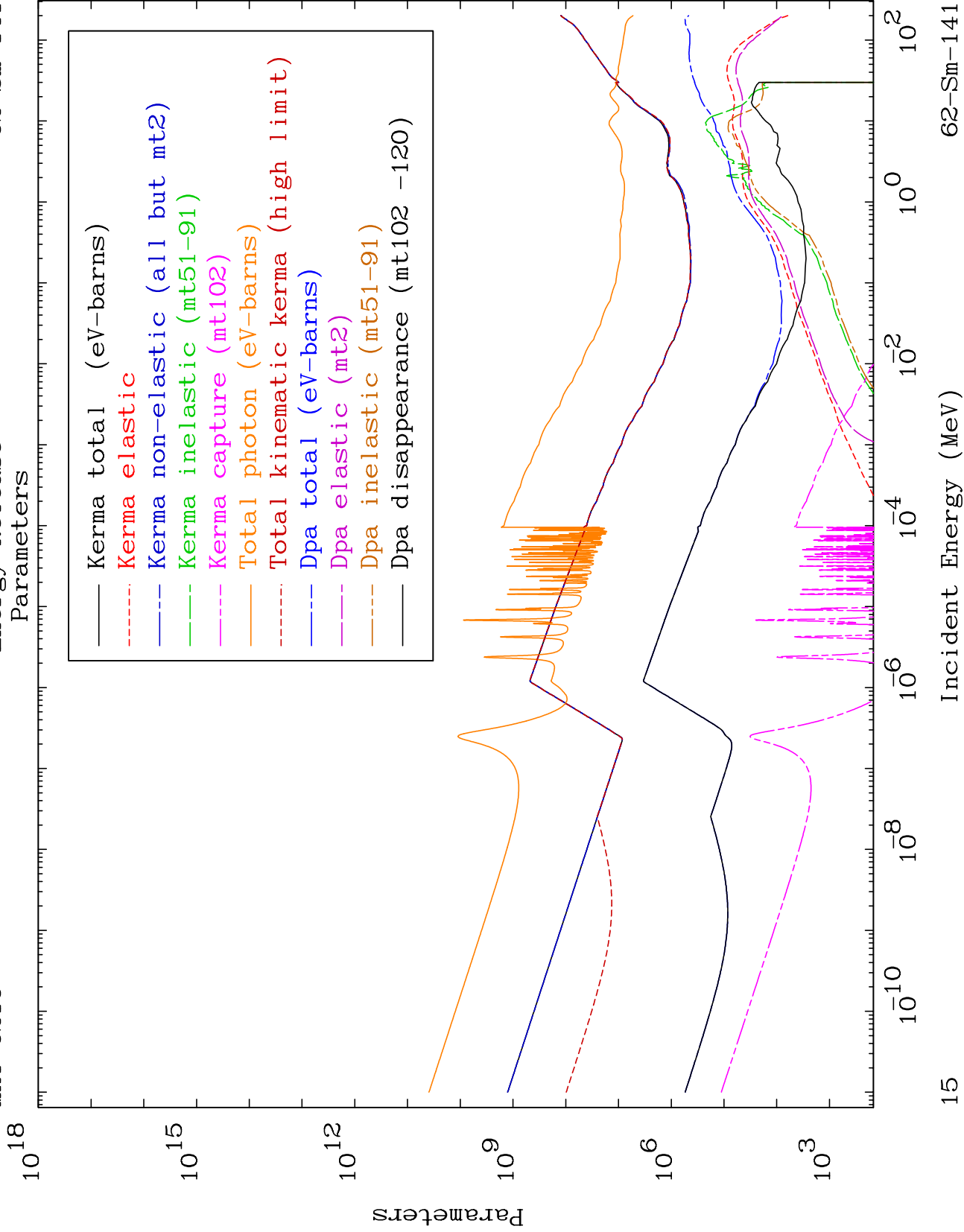
62-Sm-141



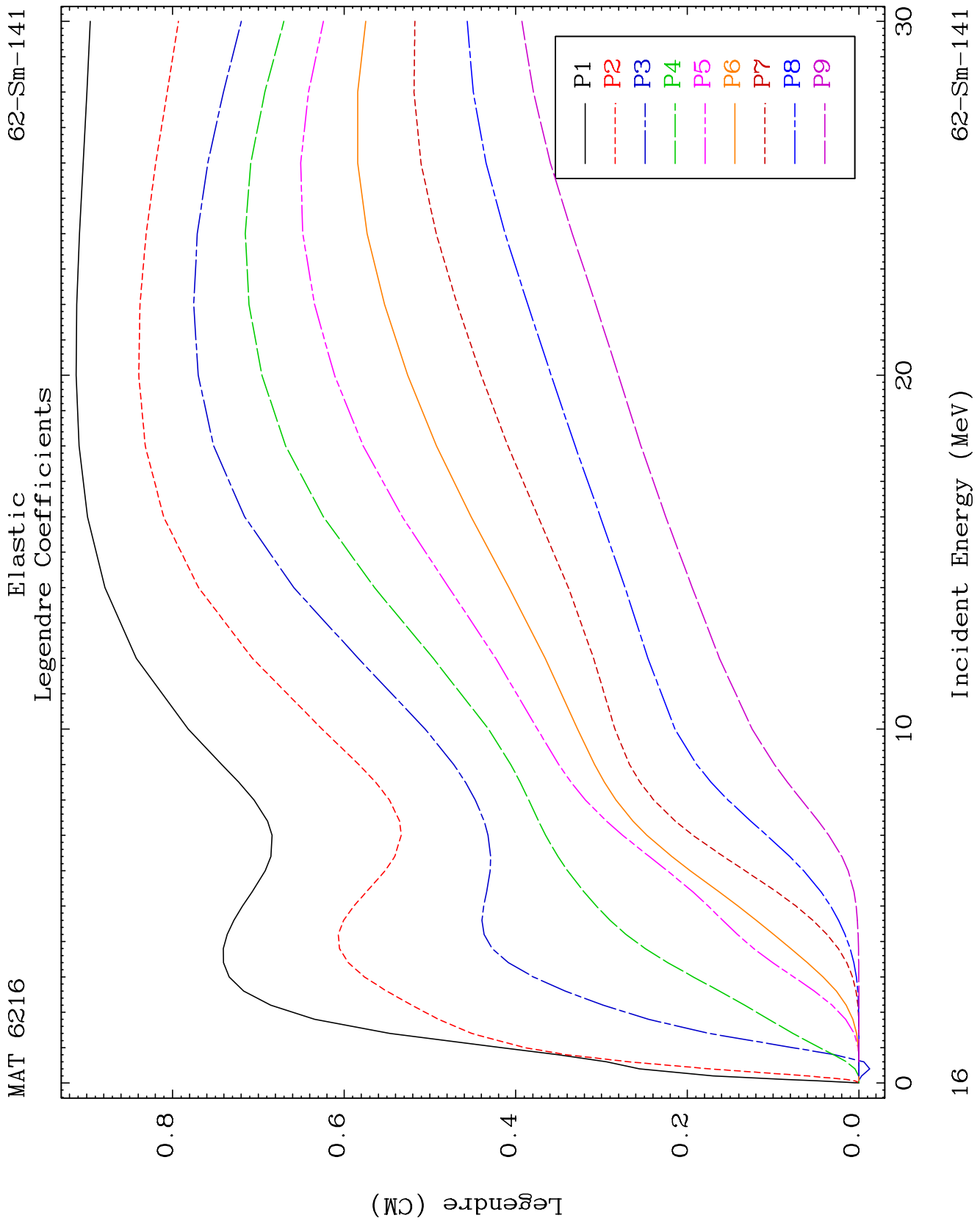
14

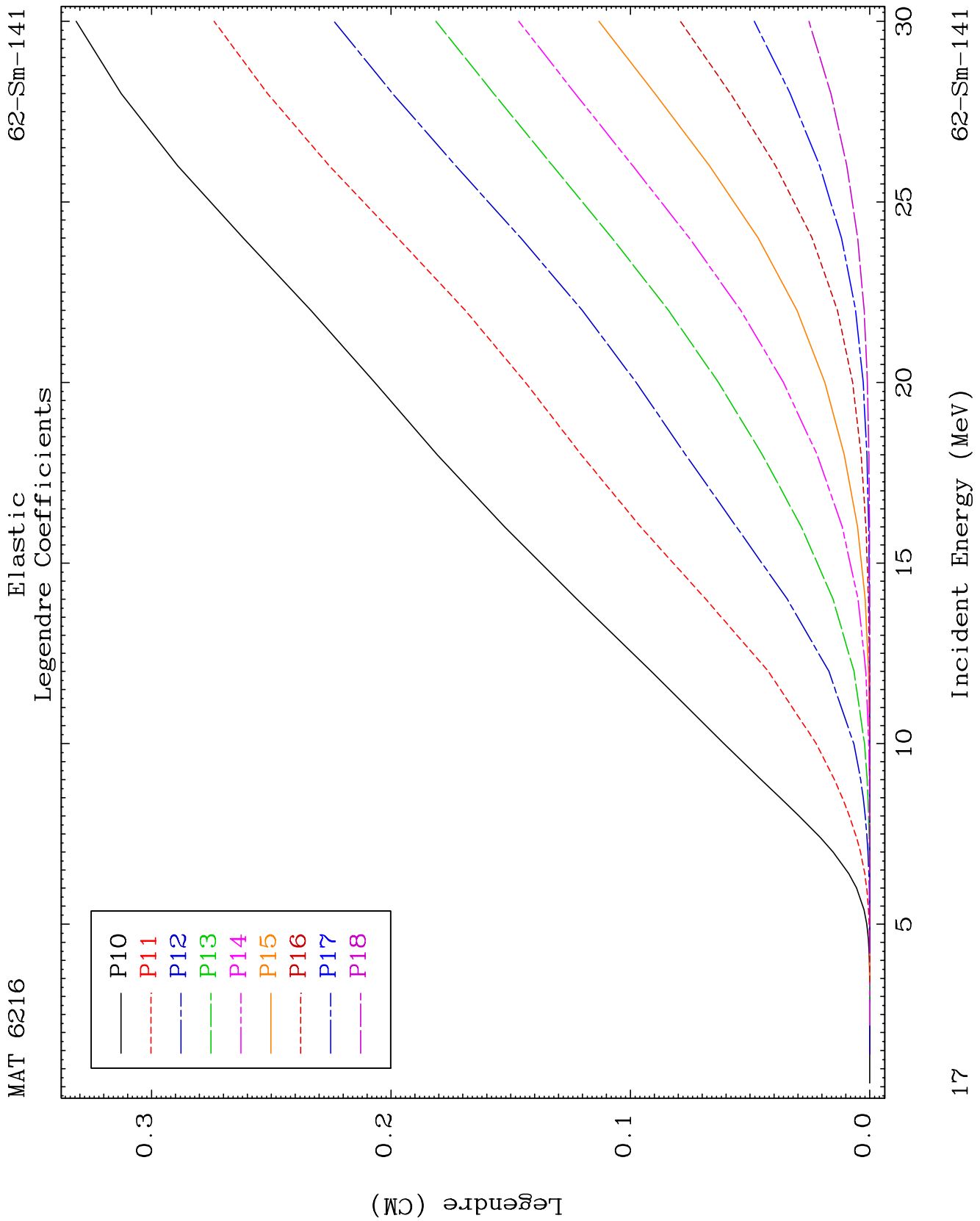
Incident Energy (MeV)

62-Sm-141







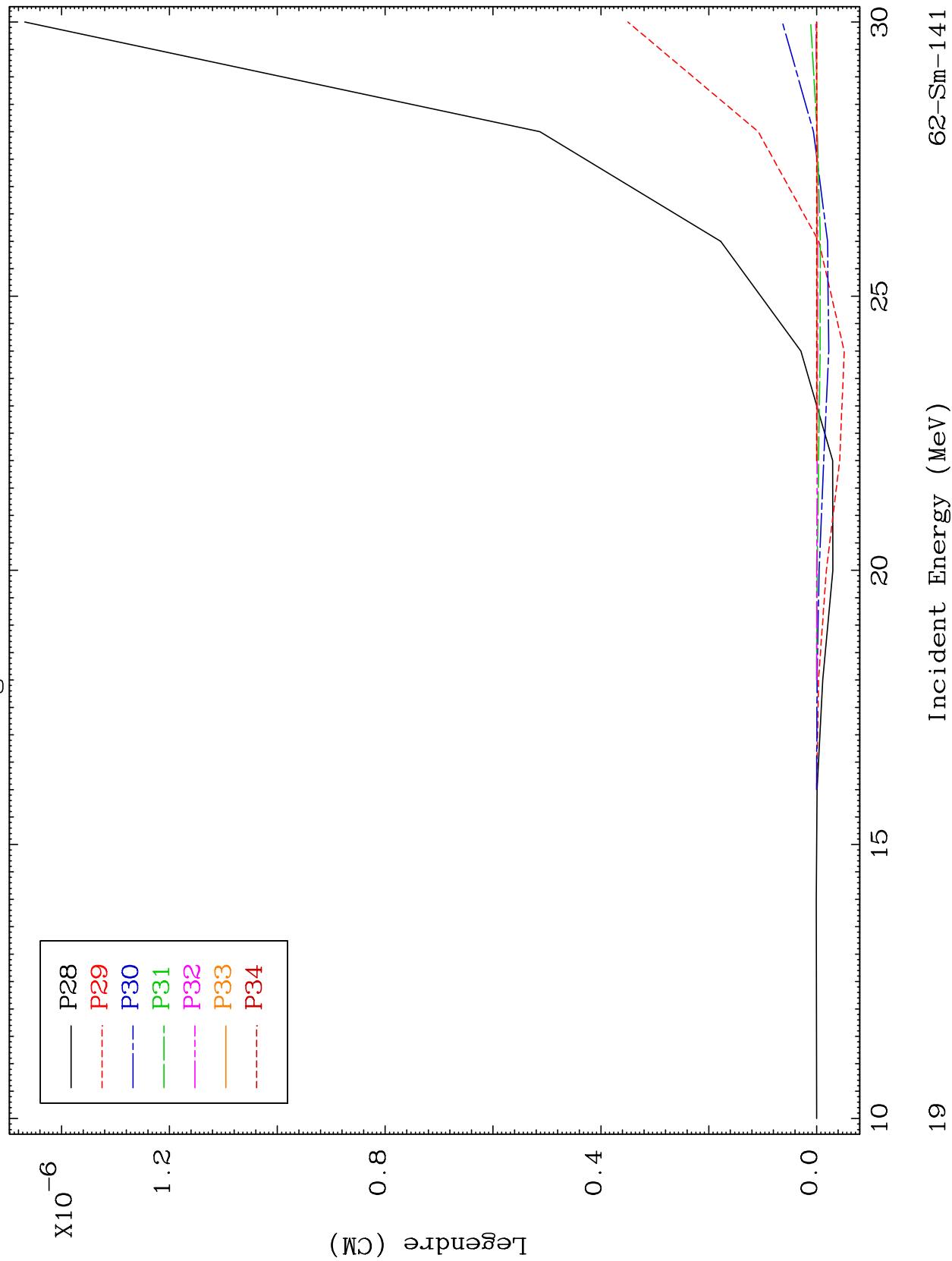




MAT 6216

Elastic Legendre Coefficients

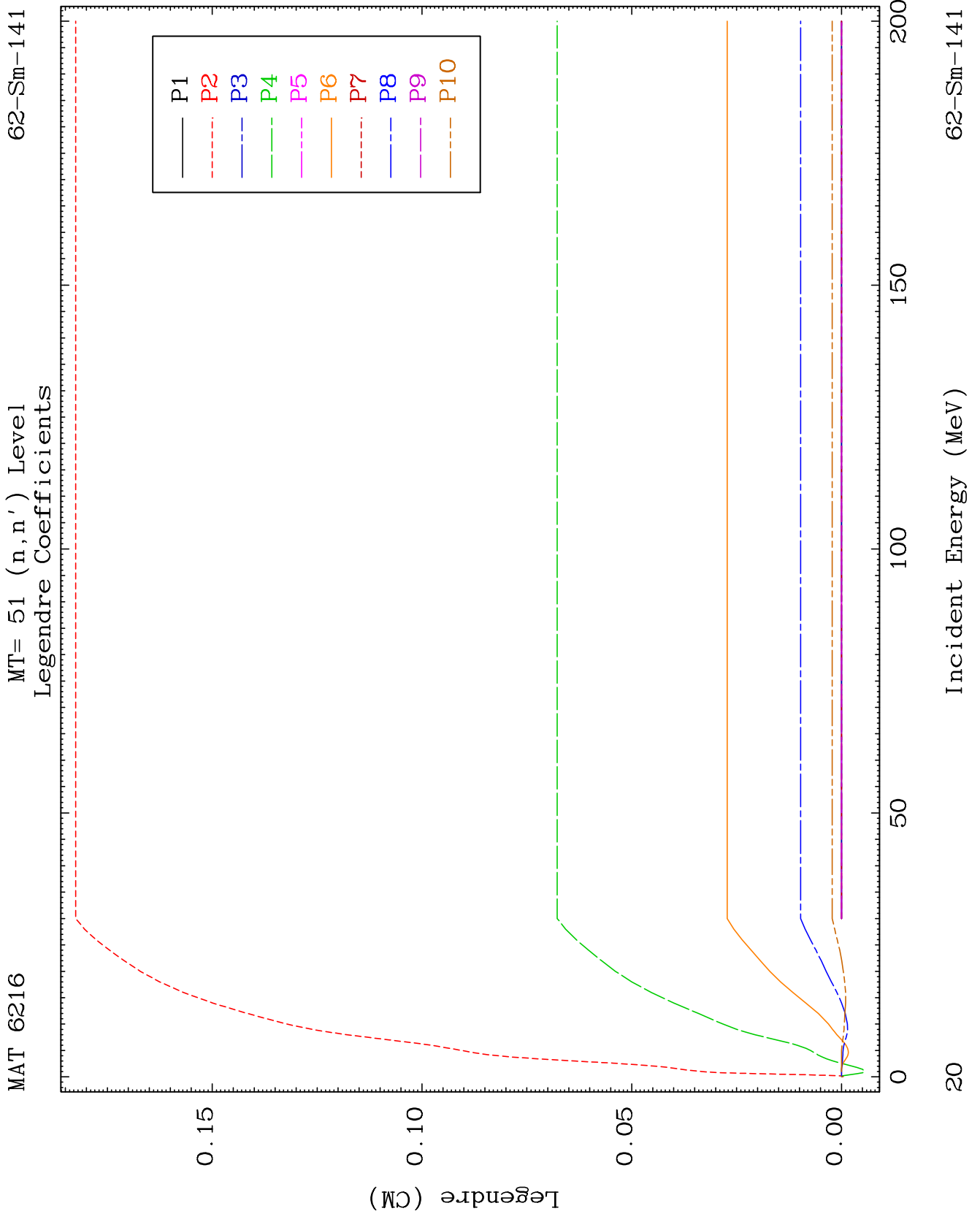
62-Sm-141



19

Incident Energy (MeV)

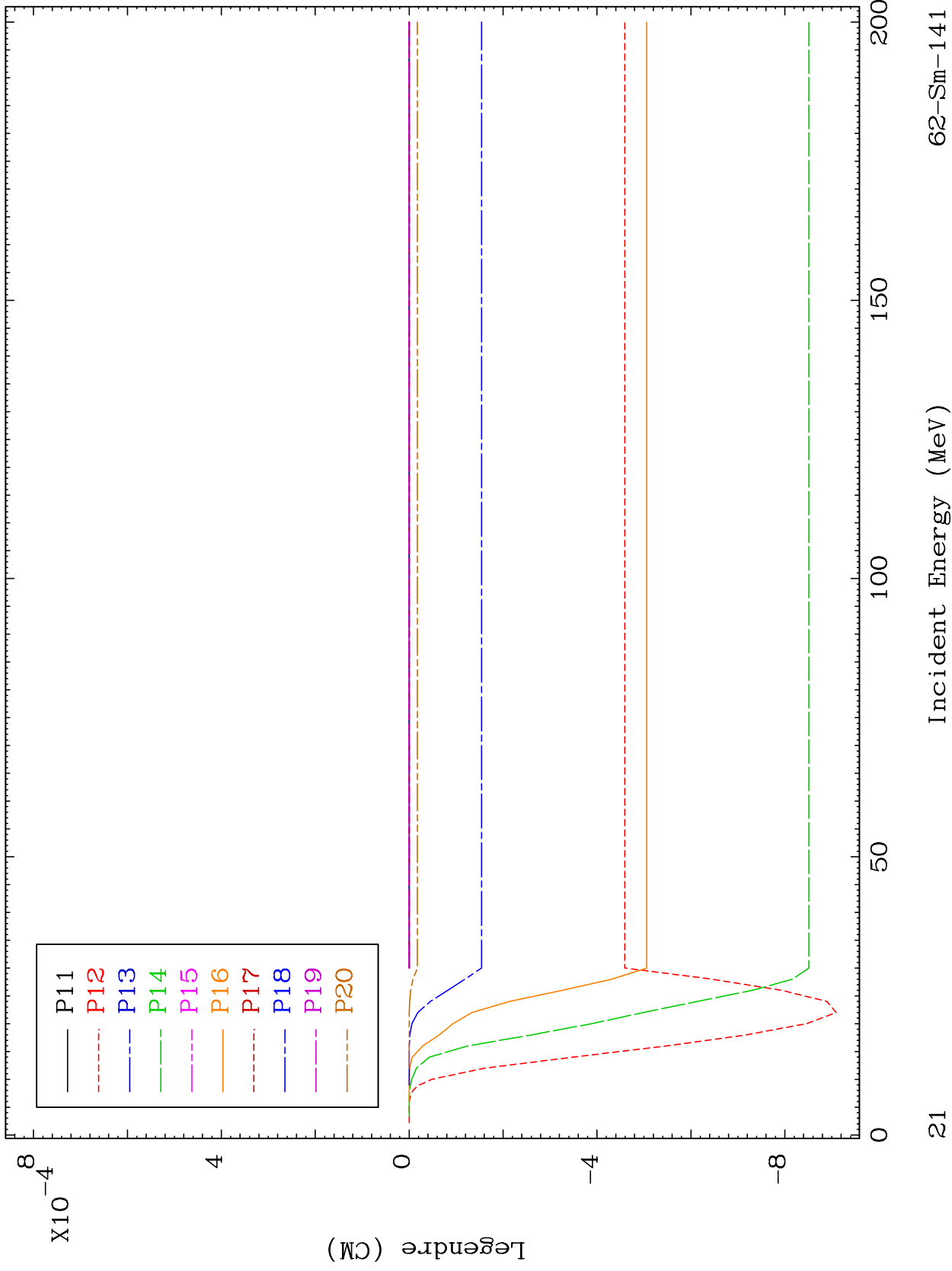
62-Sm-141



MAT 6216

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

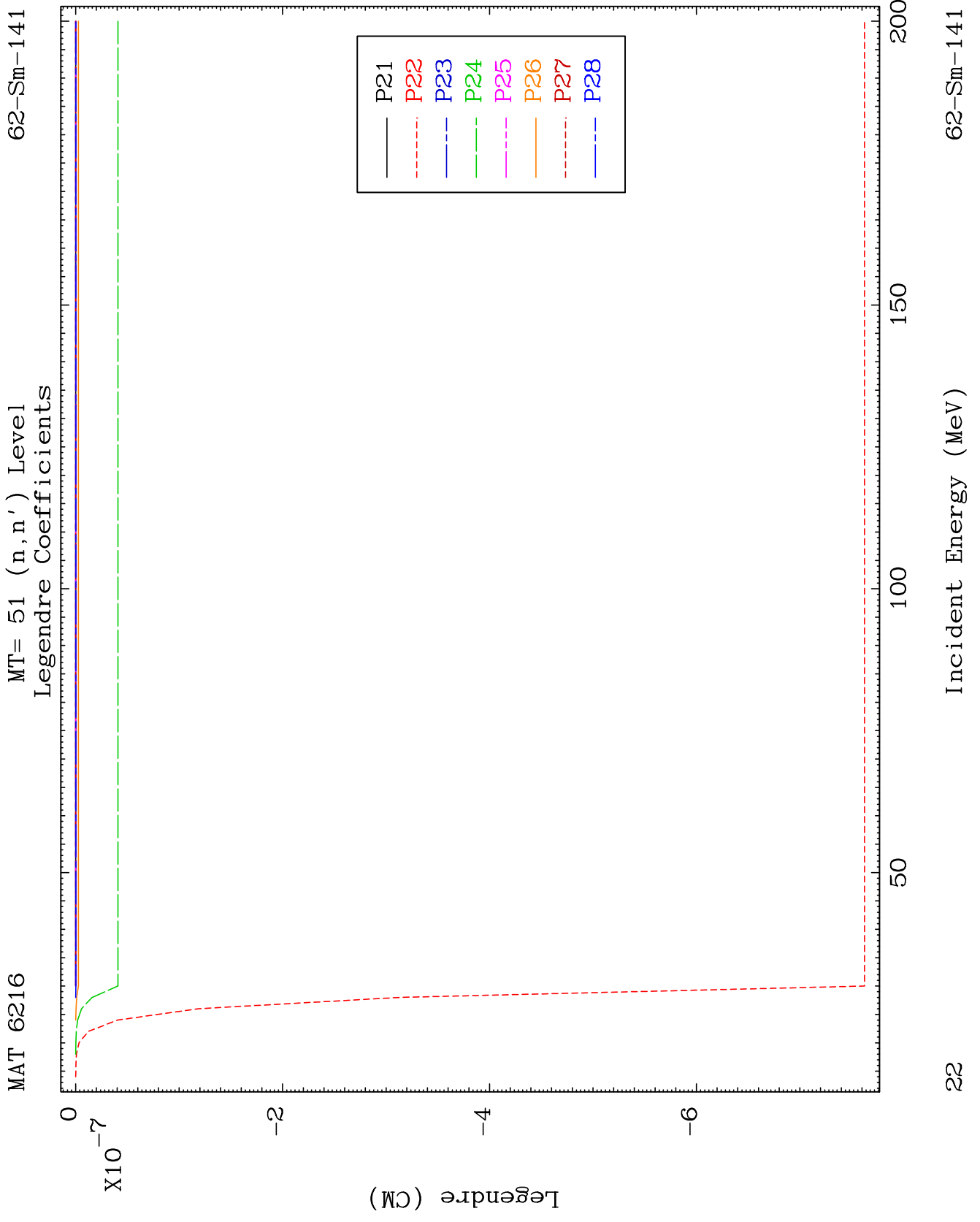
62-Sm-141



21

Incident Energy (MeV)

62-Sm-141



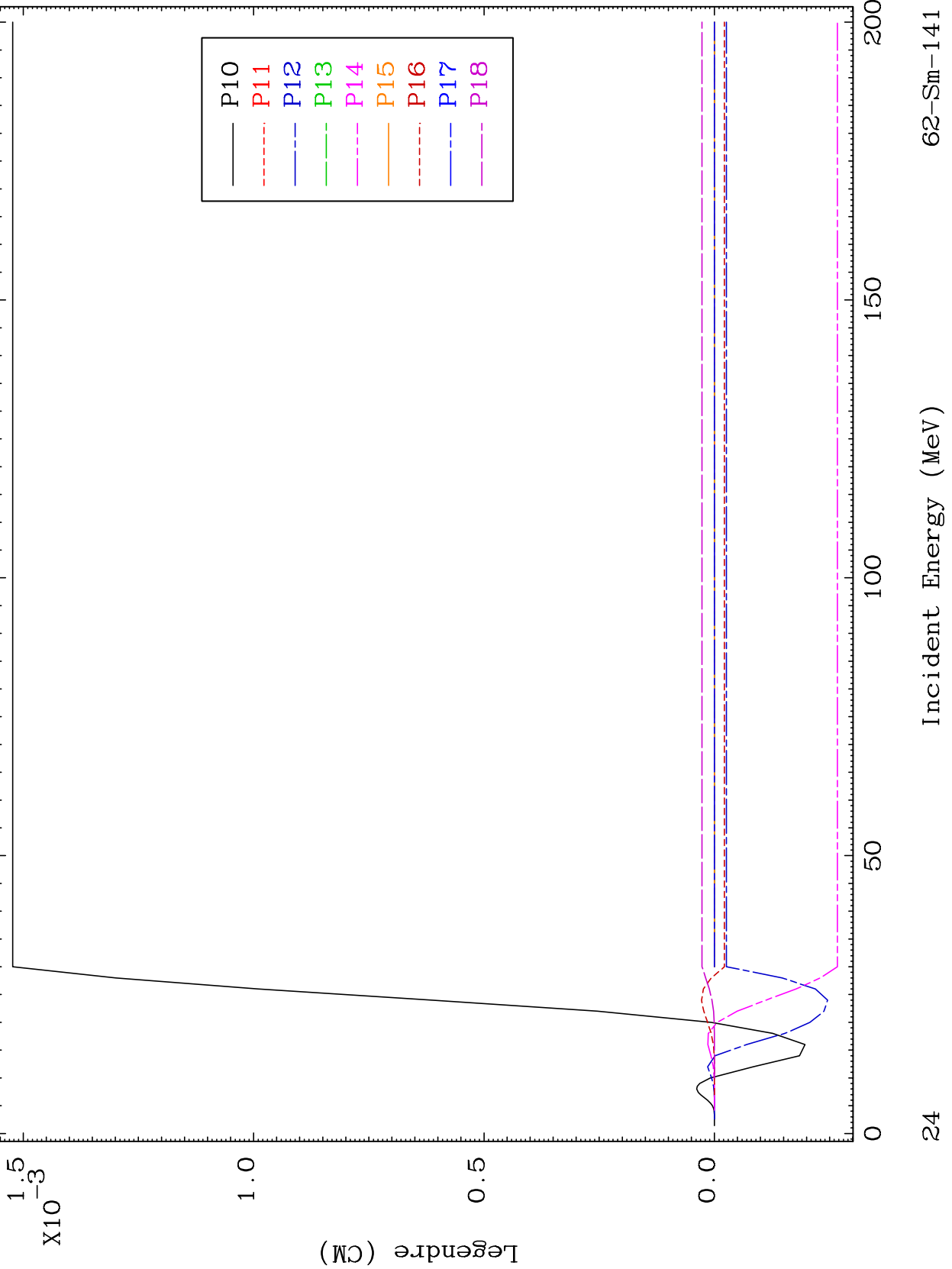




MAT 6216

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

62-Sm-141



24

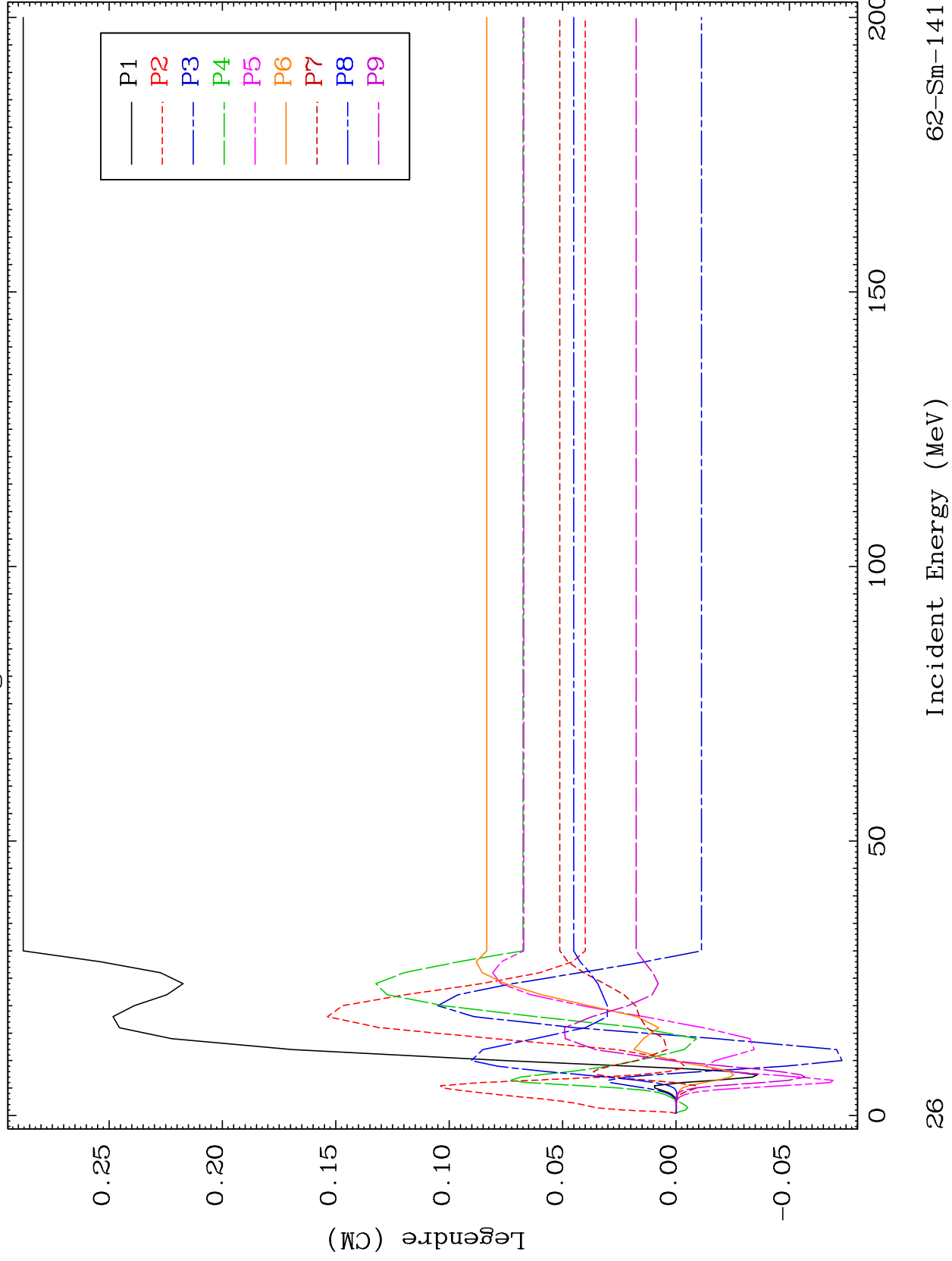
62-Sm-141



MAT 6216

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

62-Sm-141



26

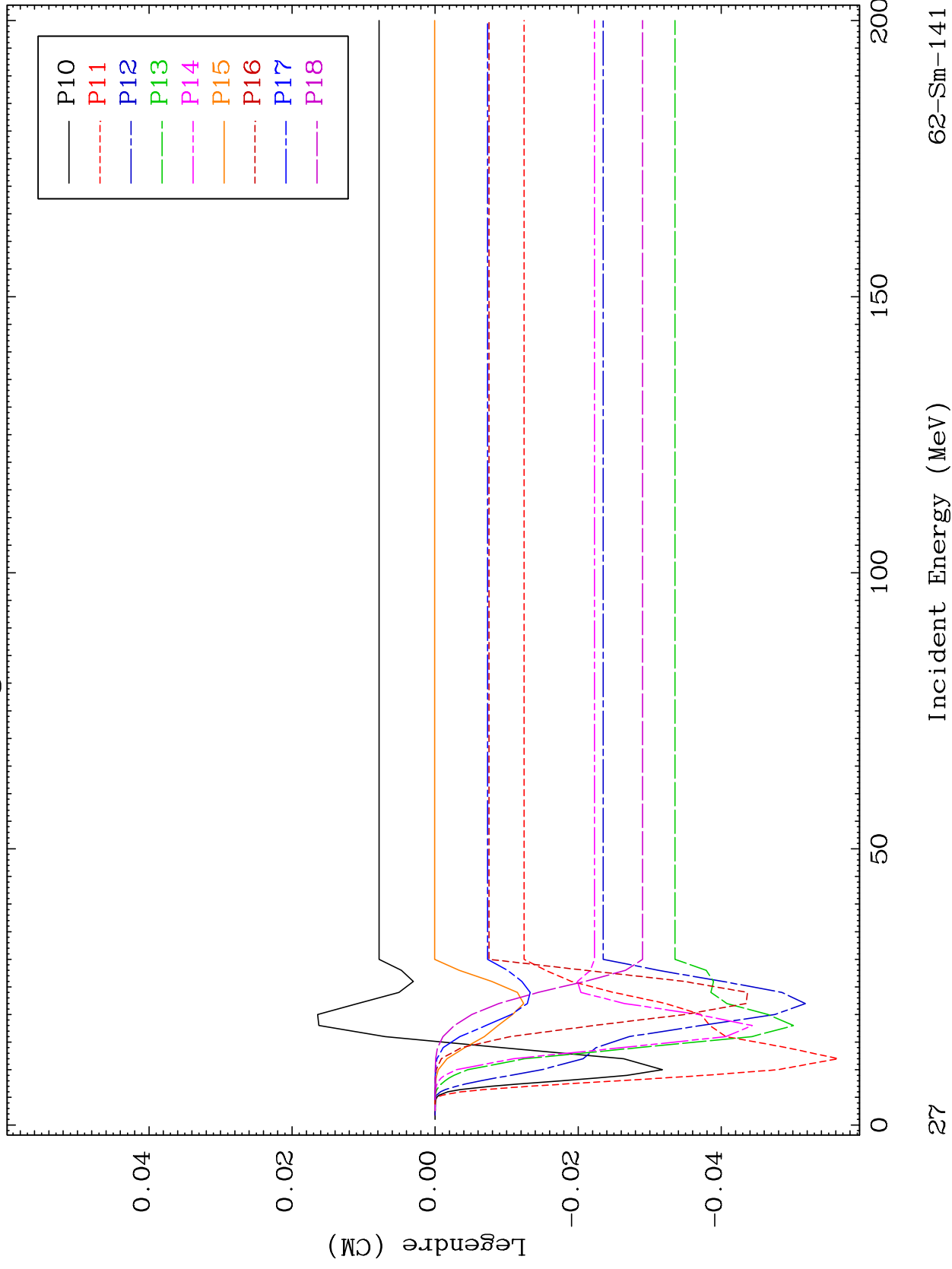
Incident Energy (MeV)

62-Sm-141

MAT 6216

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

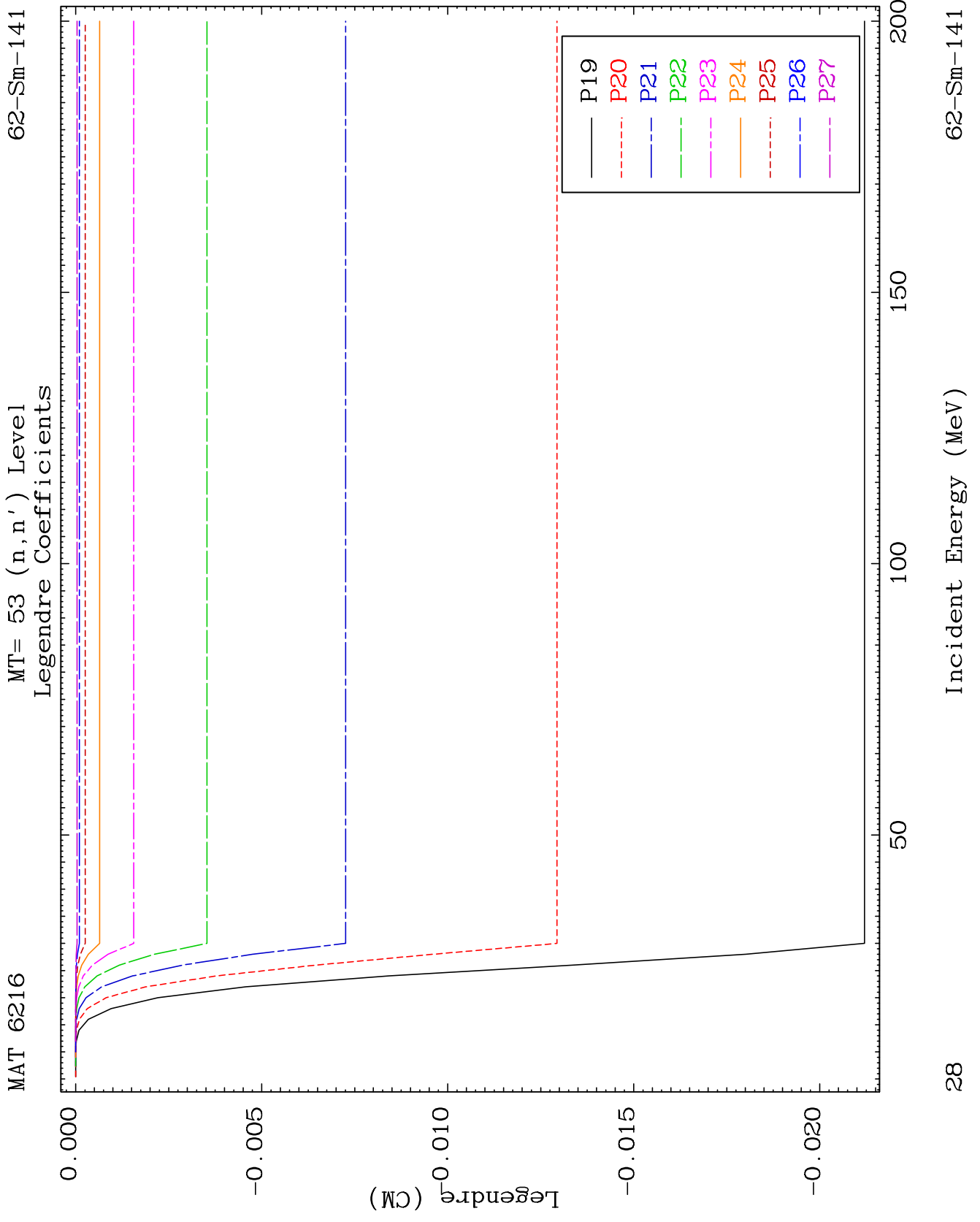
62-Sm-141

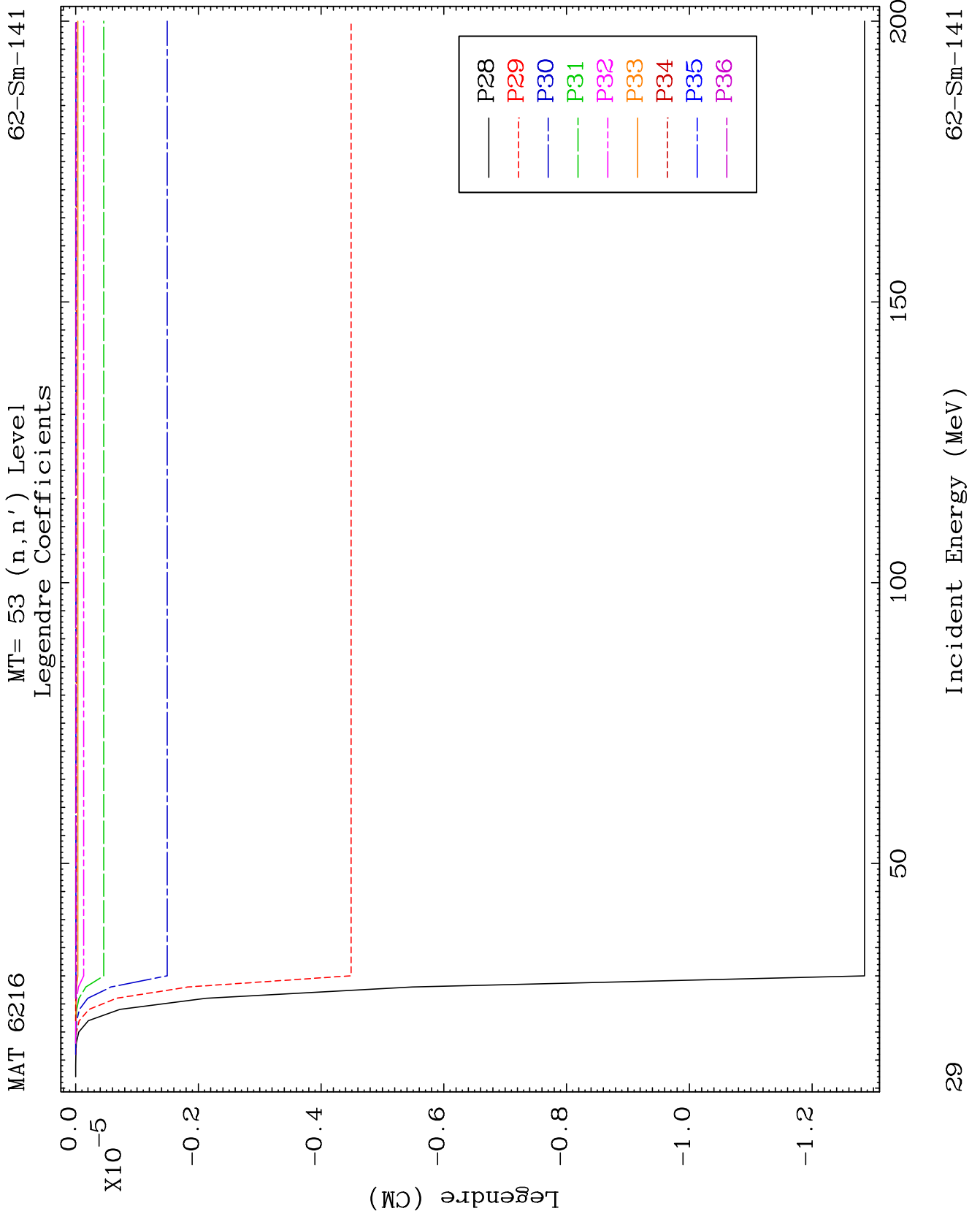


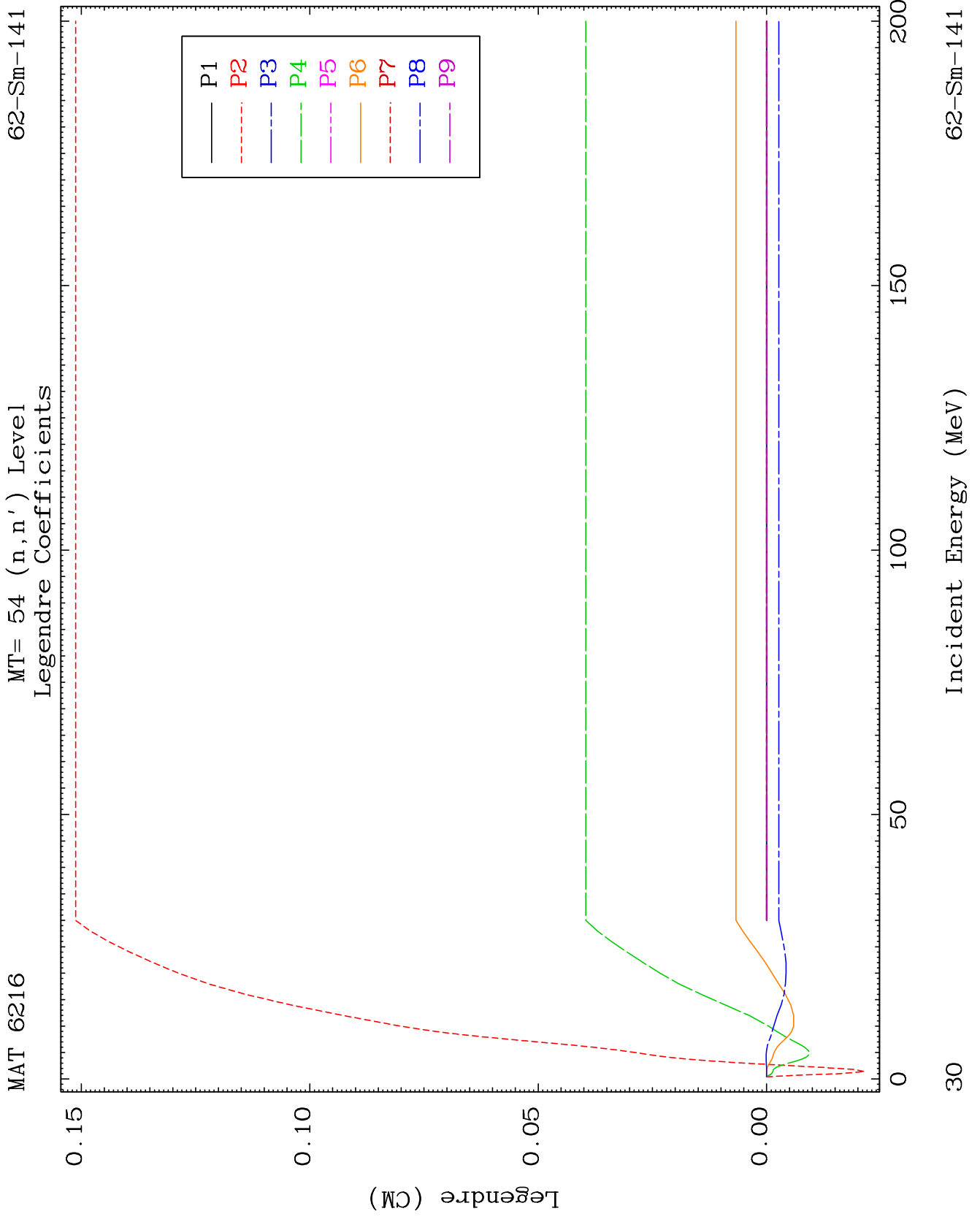
27

Incident Energy (MeV)

62-Sm-141



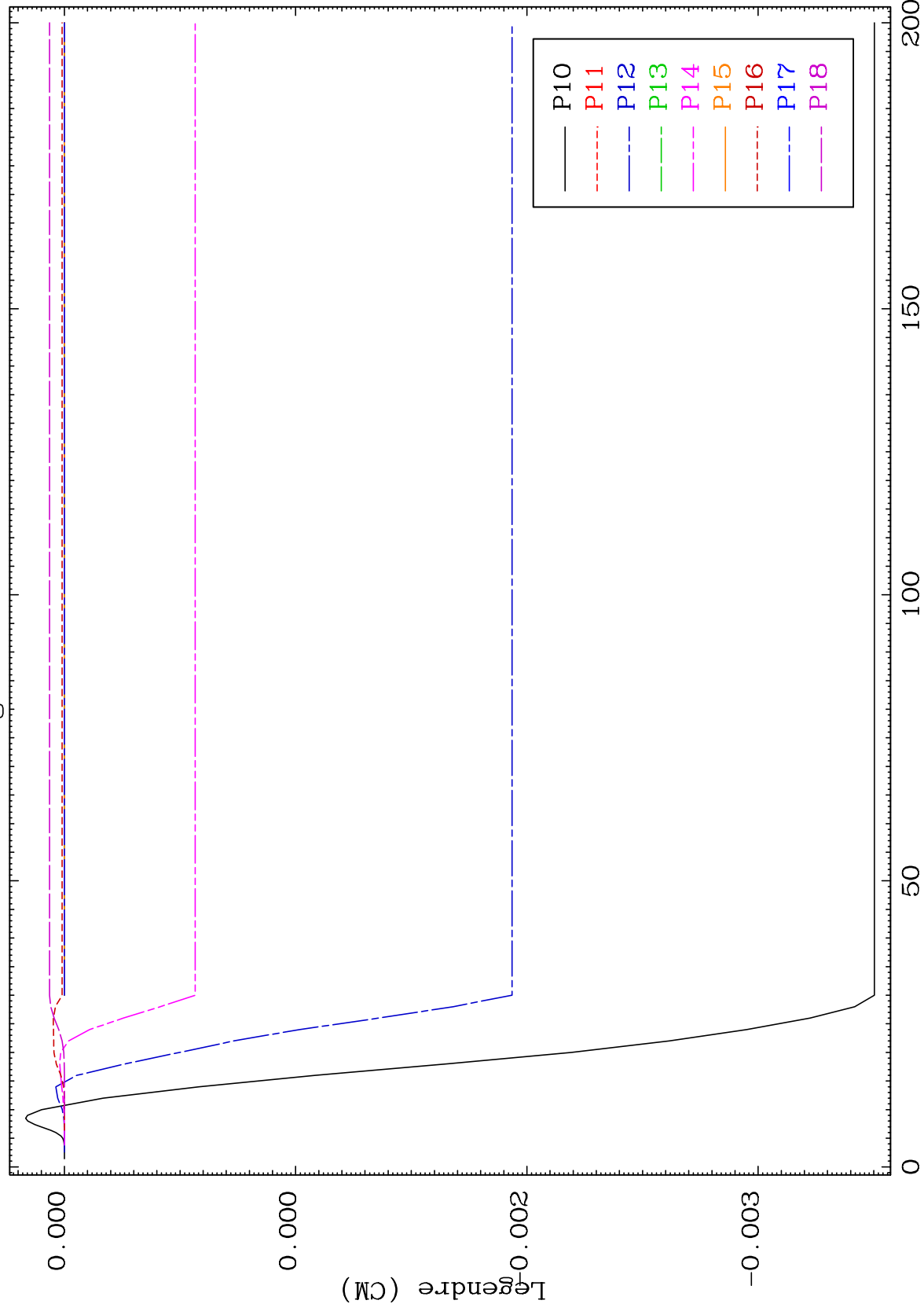




MAT 6216

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

62-Sm-141



31

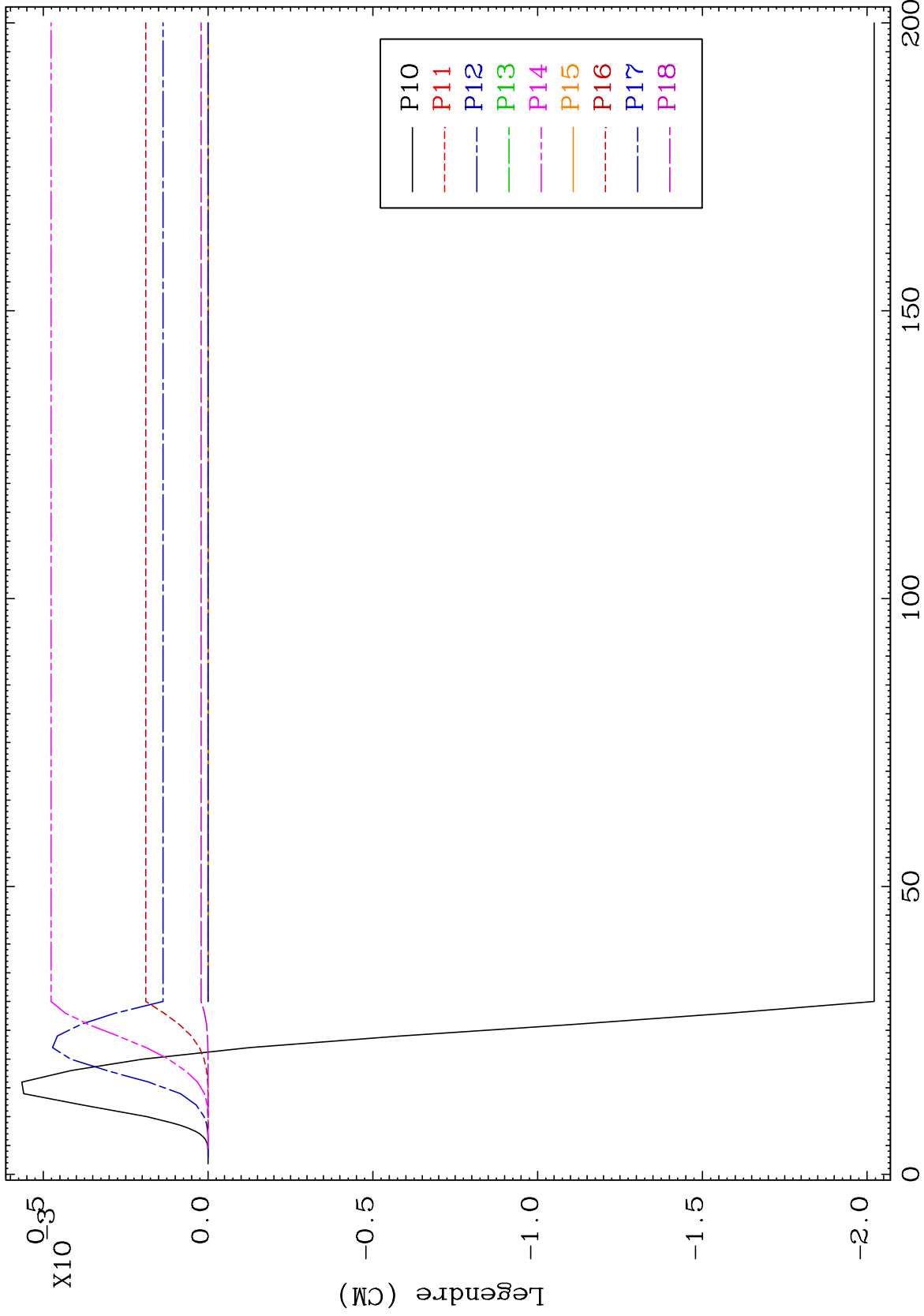
Incident Energy (MeV)

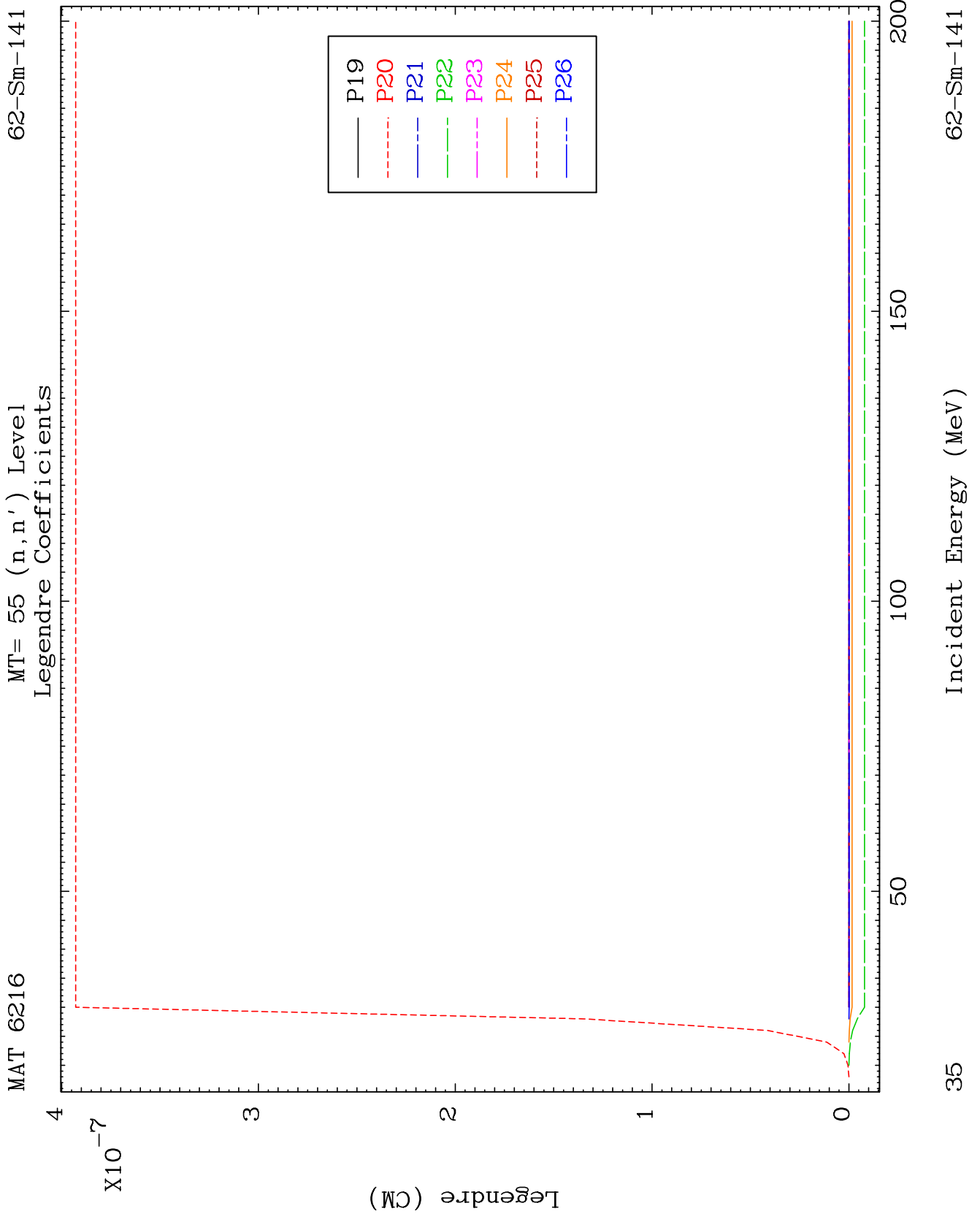
62-Sm-141







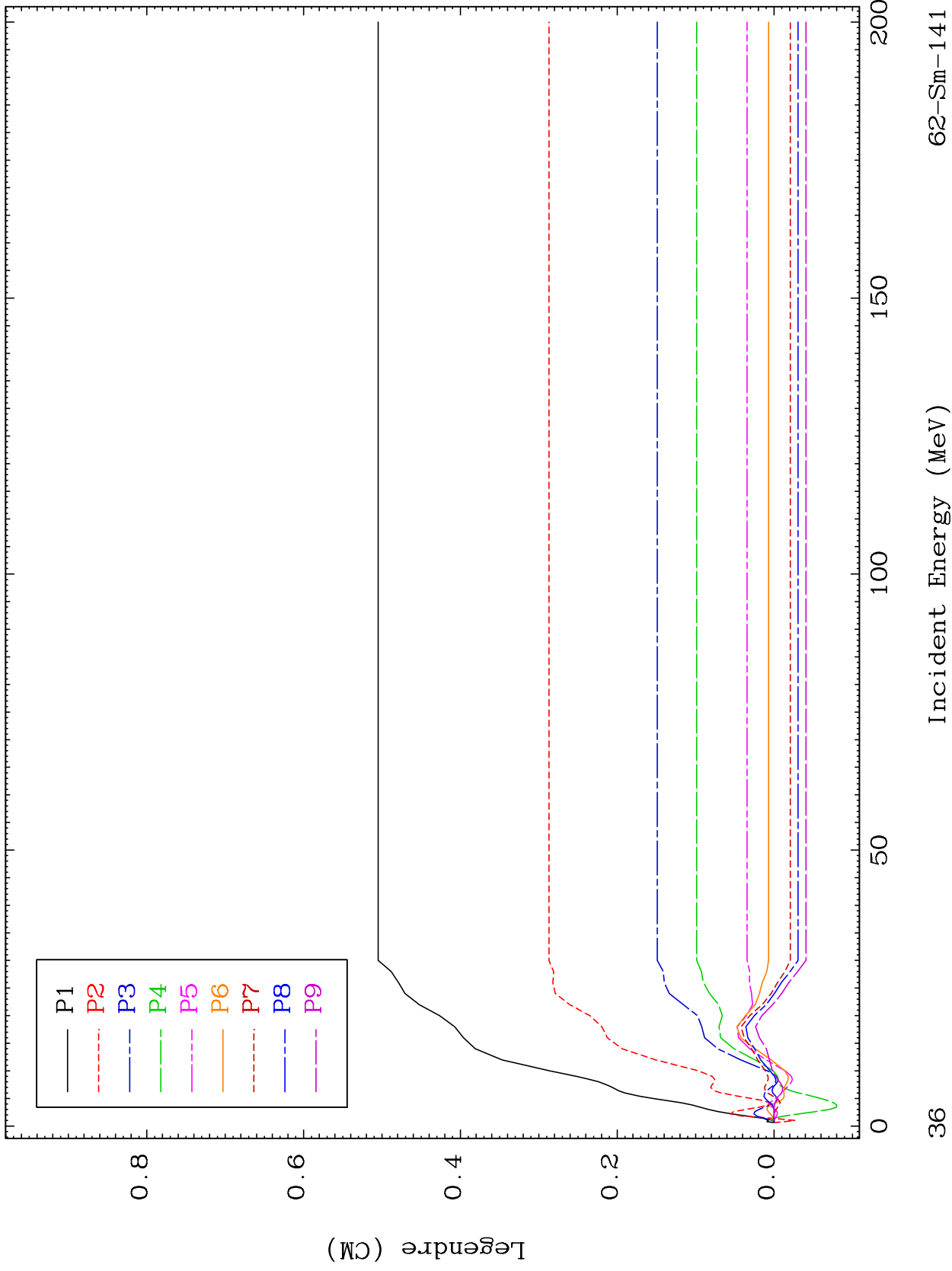




MAT 6216

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

62-Sm-141



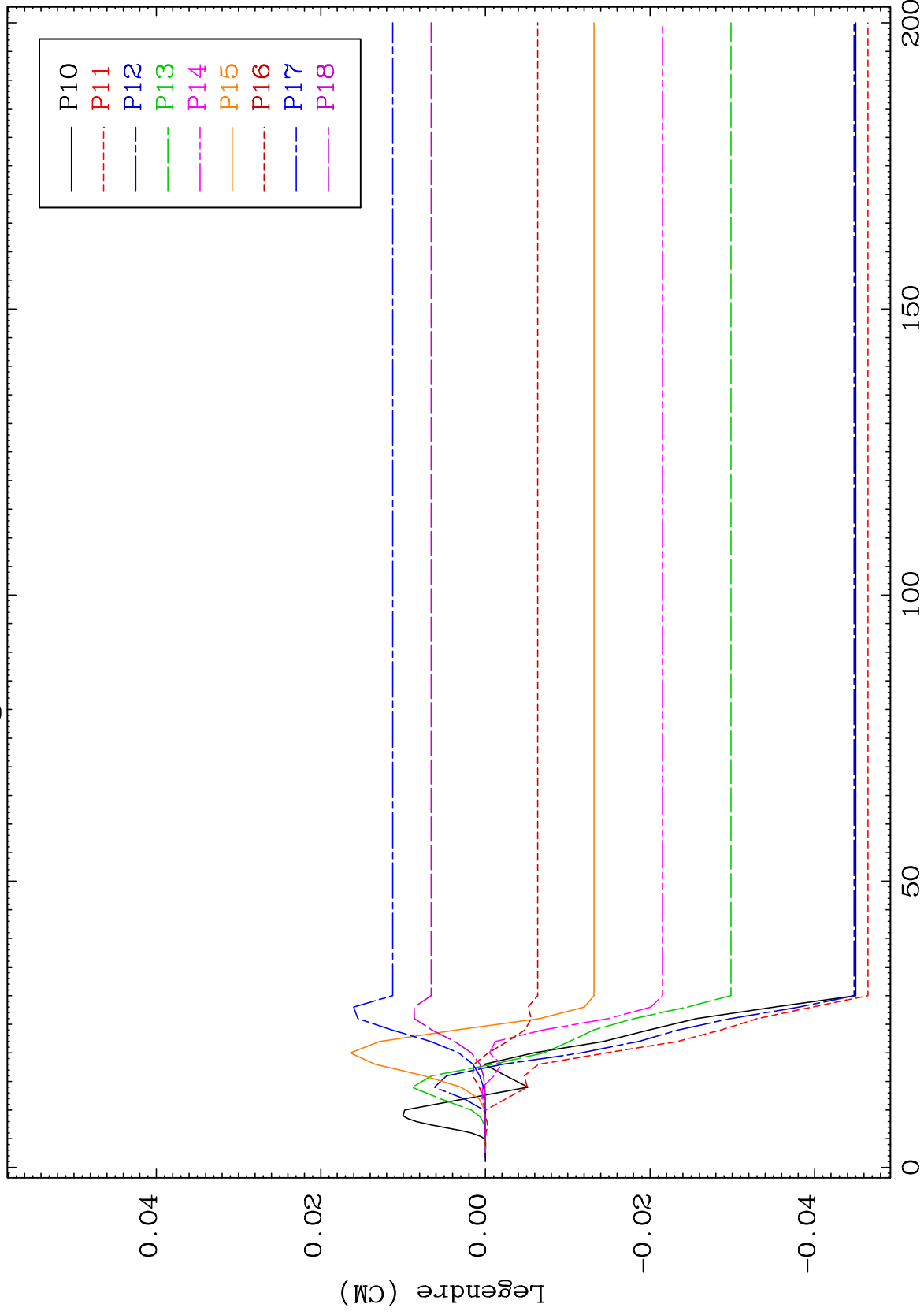
36

62-Sm-141

MAT 6216

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

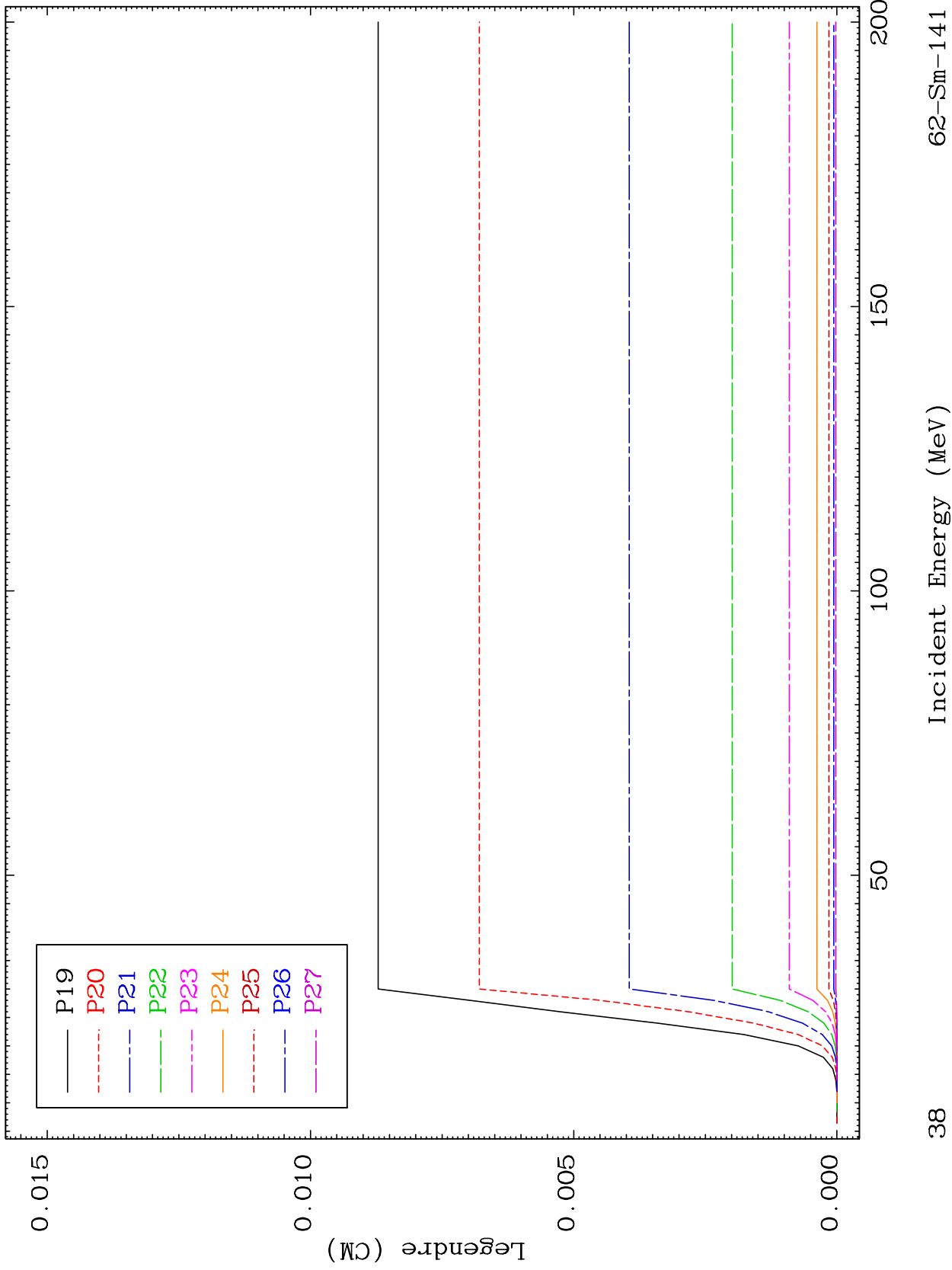
62-Sm-141



37

Incident Energy (MeV)

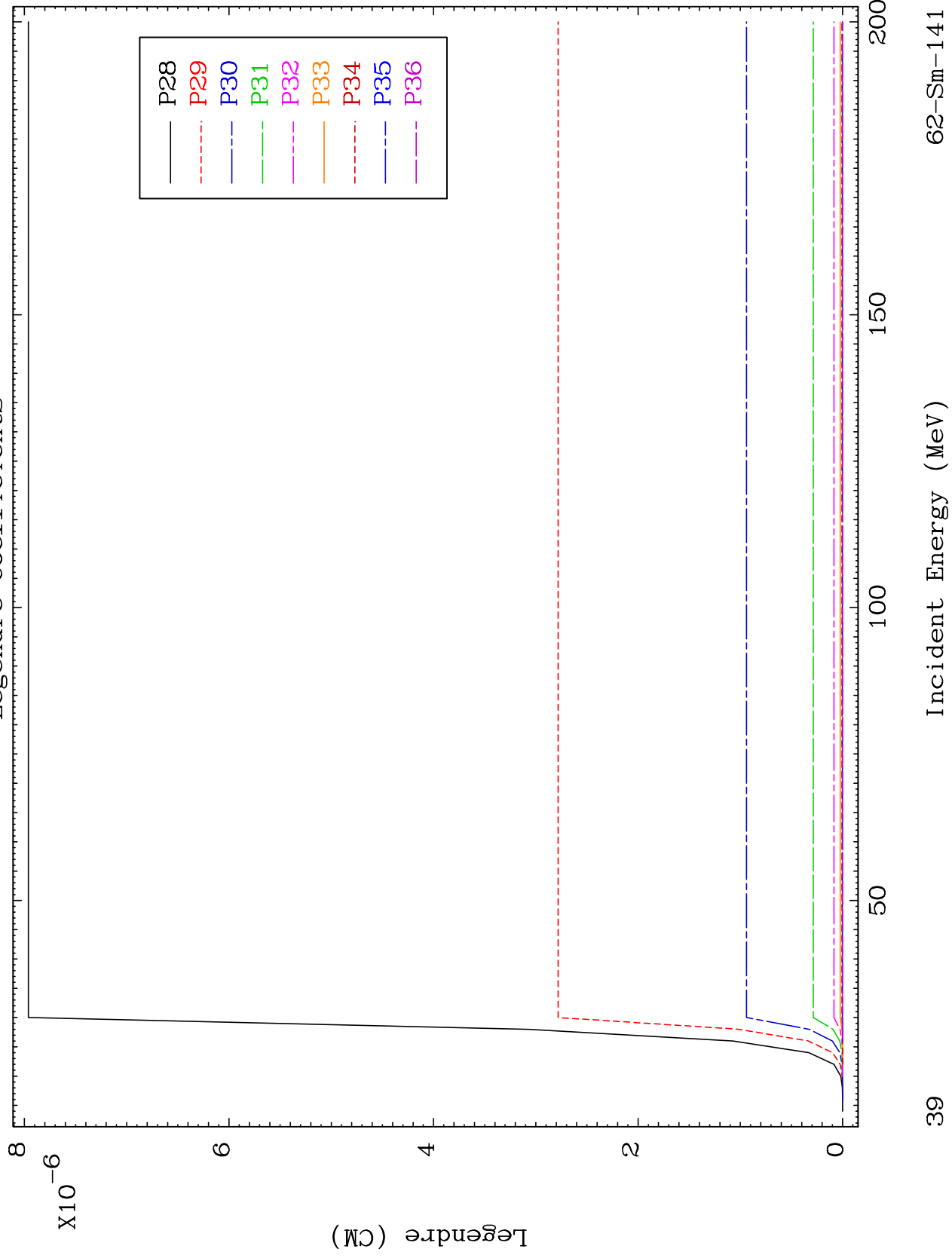
62-Sm-141



MAT 6216

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

62-Sm-141



39

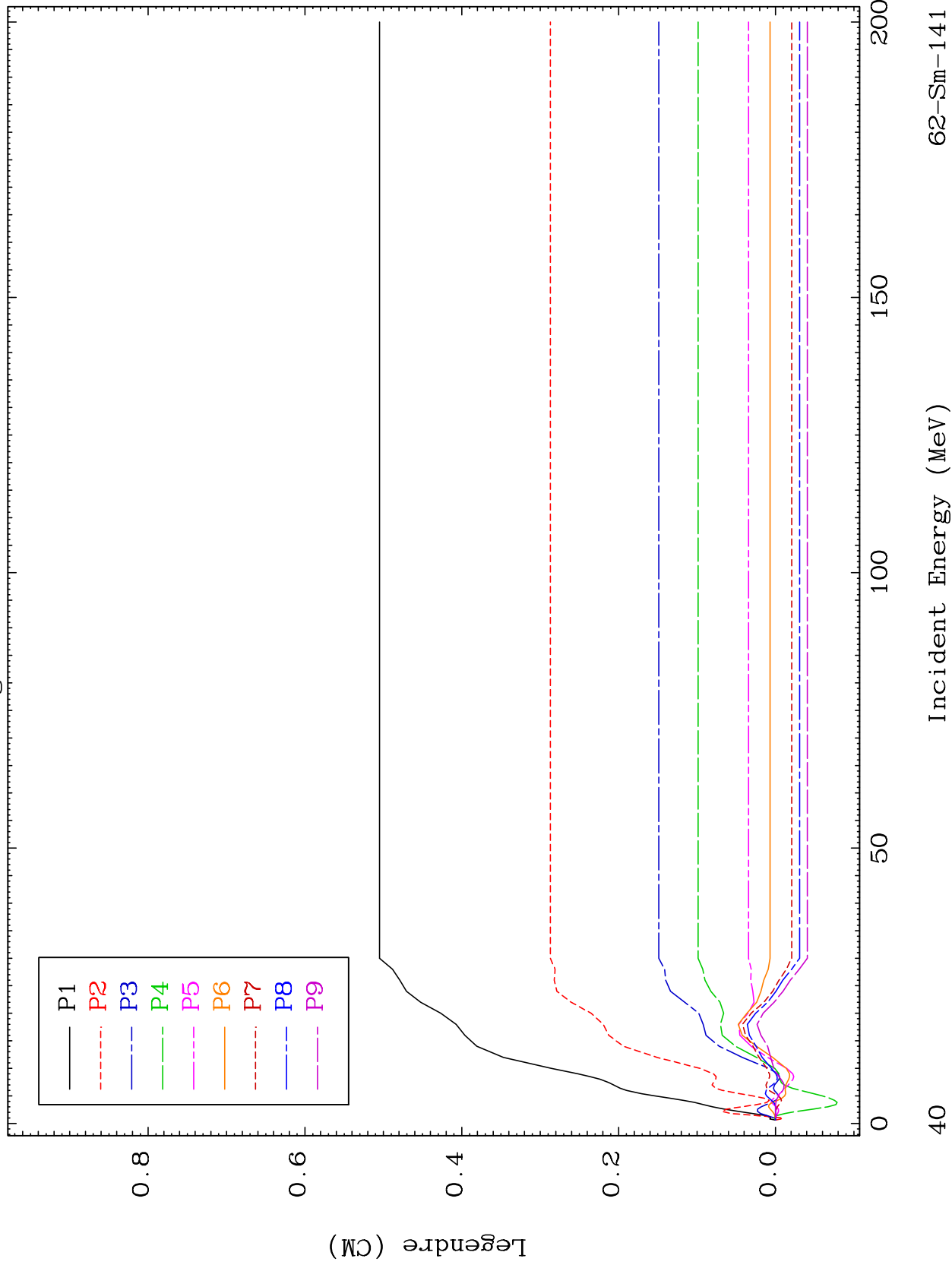
62-Sm-141



MAT 6216

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

62-Sm-141

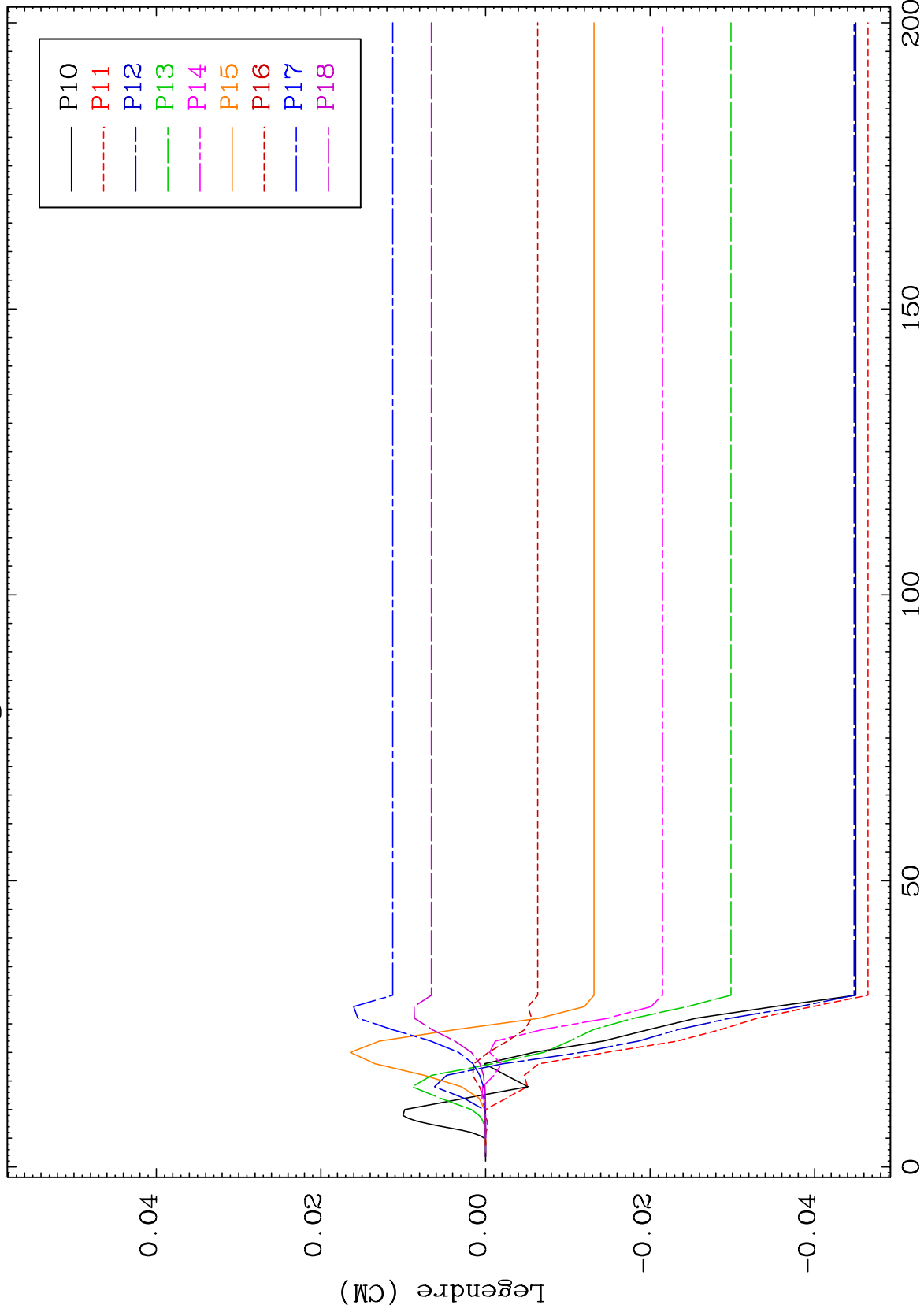


62-Sm-141

MAT 6216

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

62-Sm-141



41

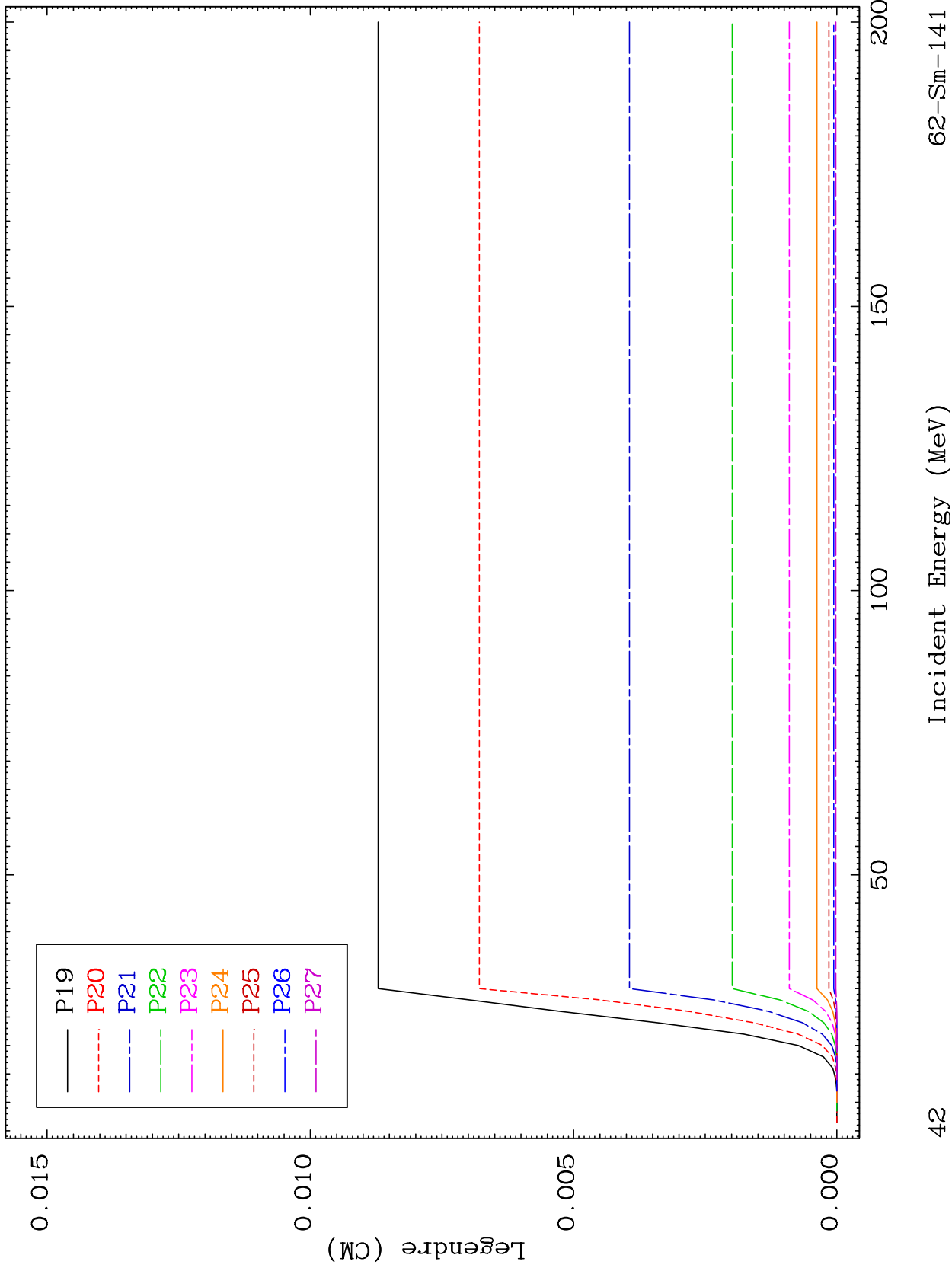
Incident Energy (MeV)

62-Sm-141

MAT 6216

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

62-Sm-141



42

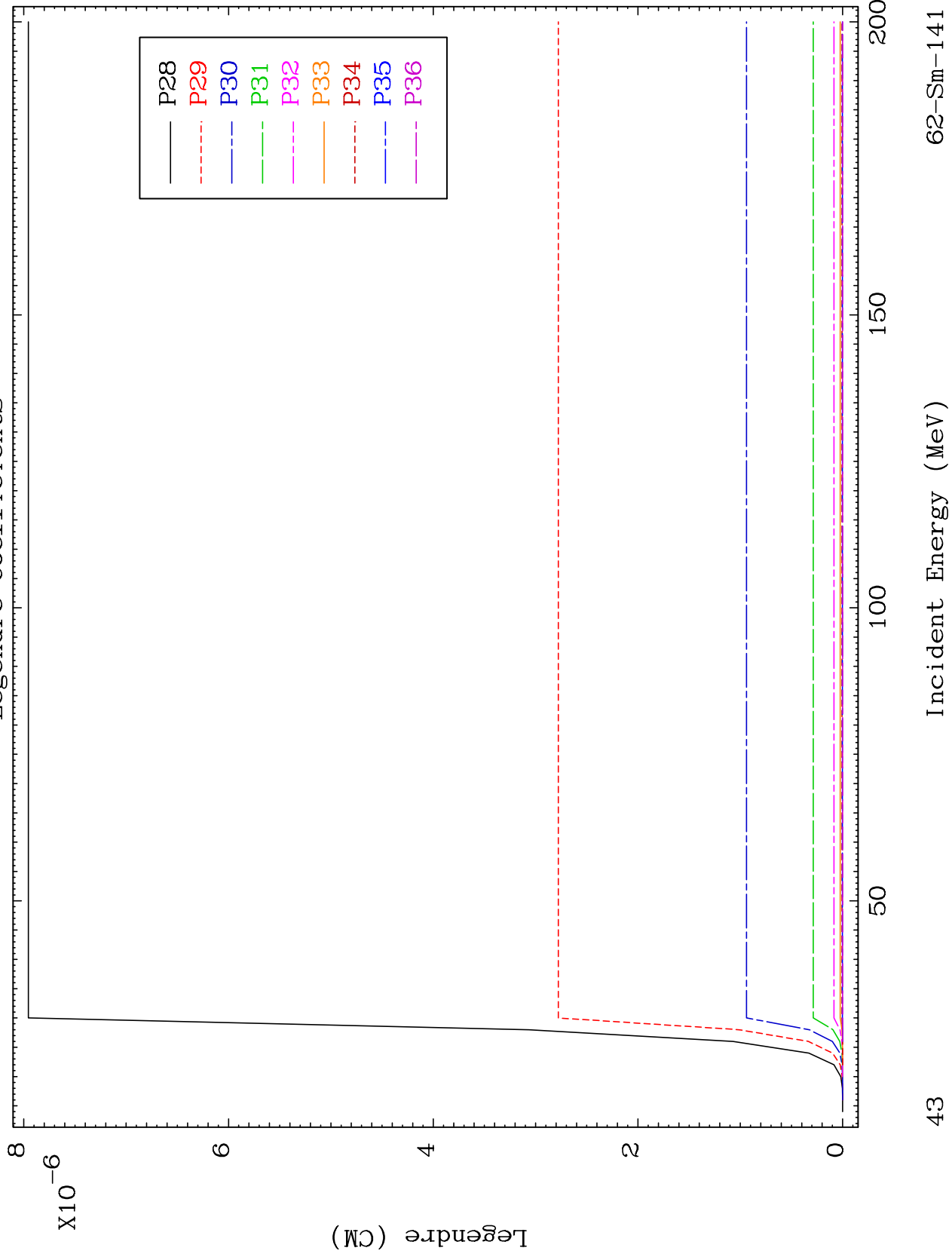
Incident Energy (MeV)

62-Sm-141

MAT 6216

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

62-Sm-141



43

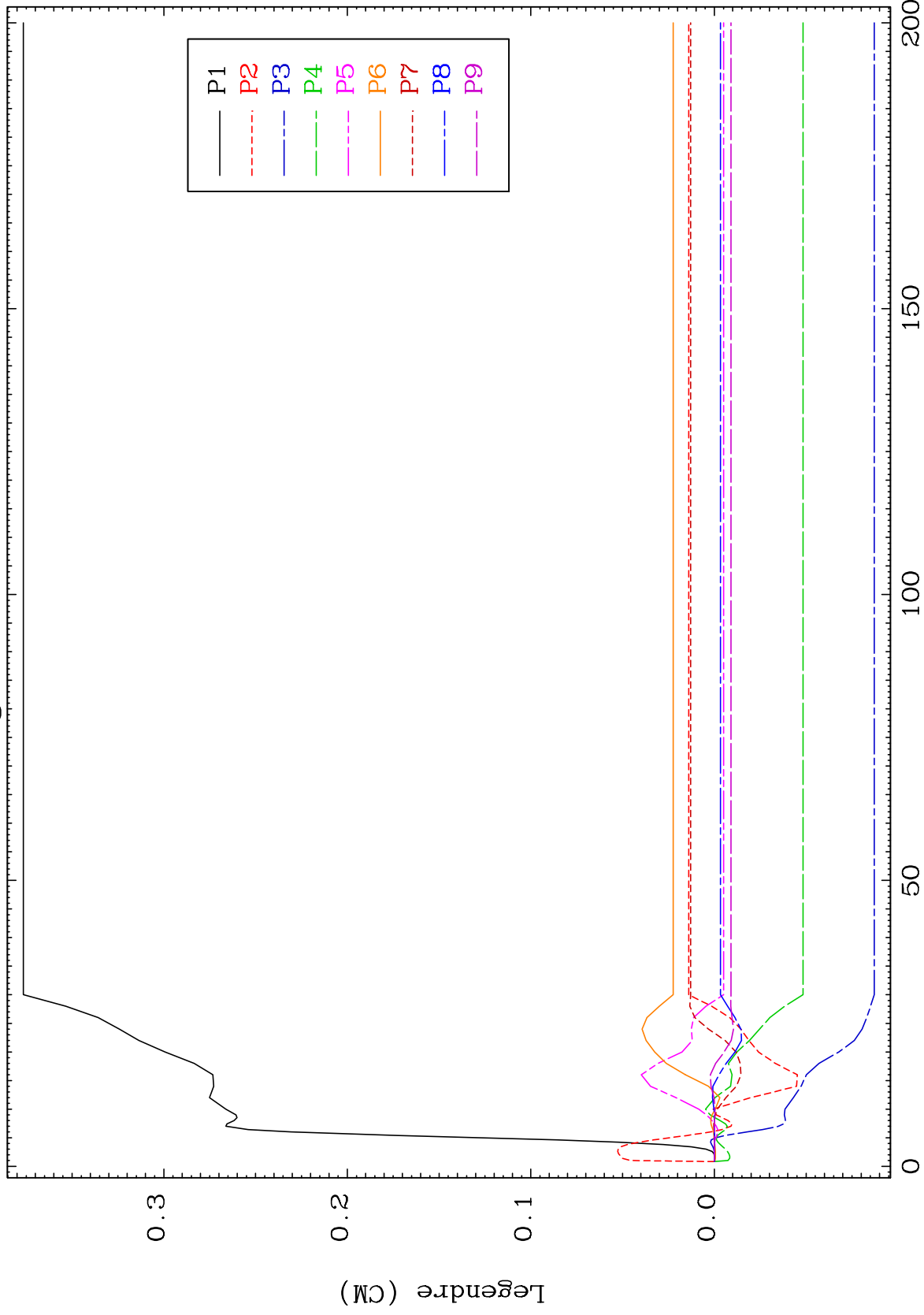
Incident Energy (MeV)

62-Sm-141

MAT 6216

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

62-Sm-141



44

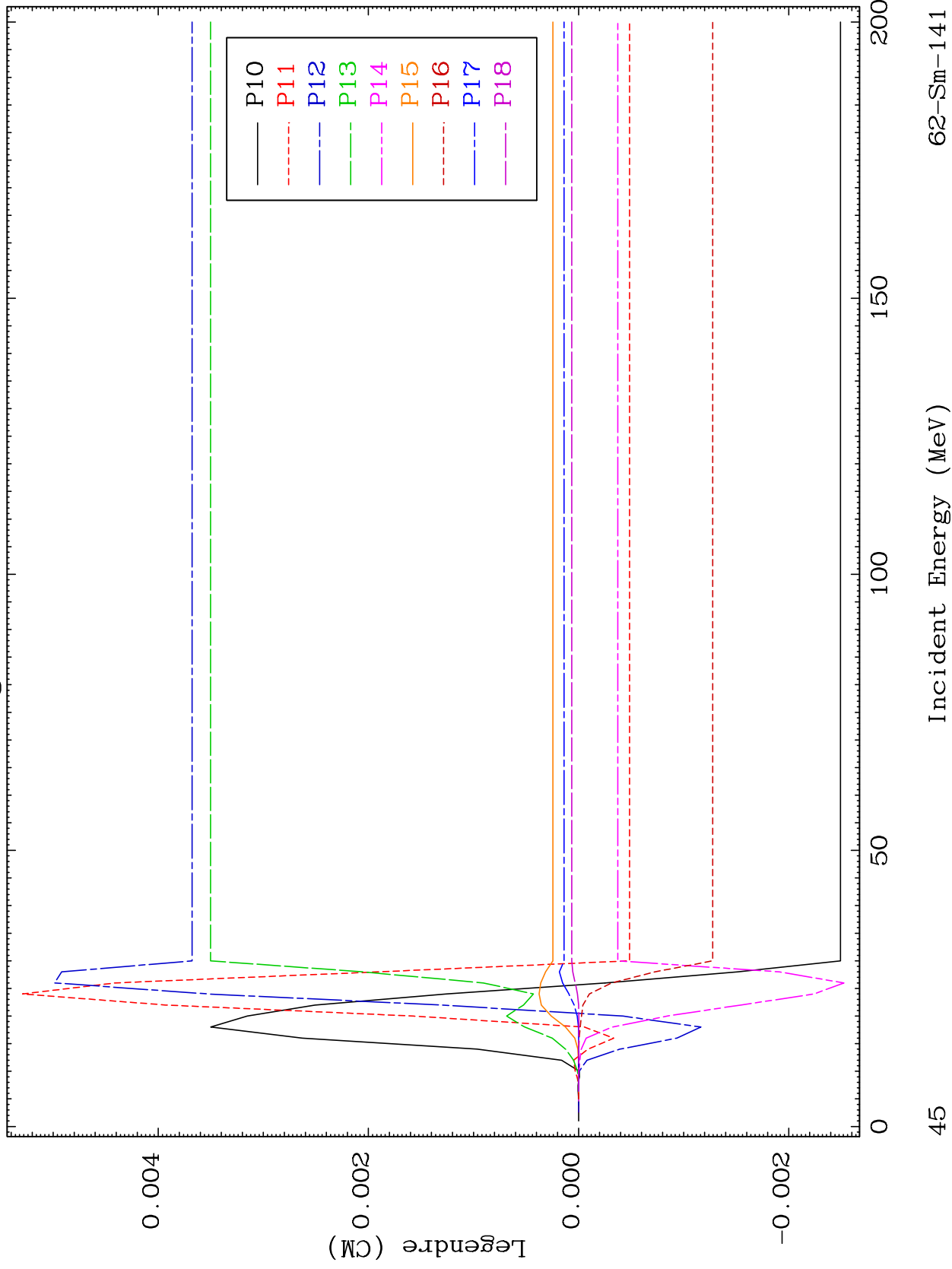
Incident Energy (MeV)

62-Sm-141

MAT 6216

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

62-Sm-141



62-Sm-141

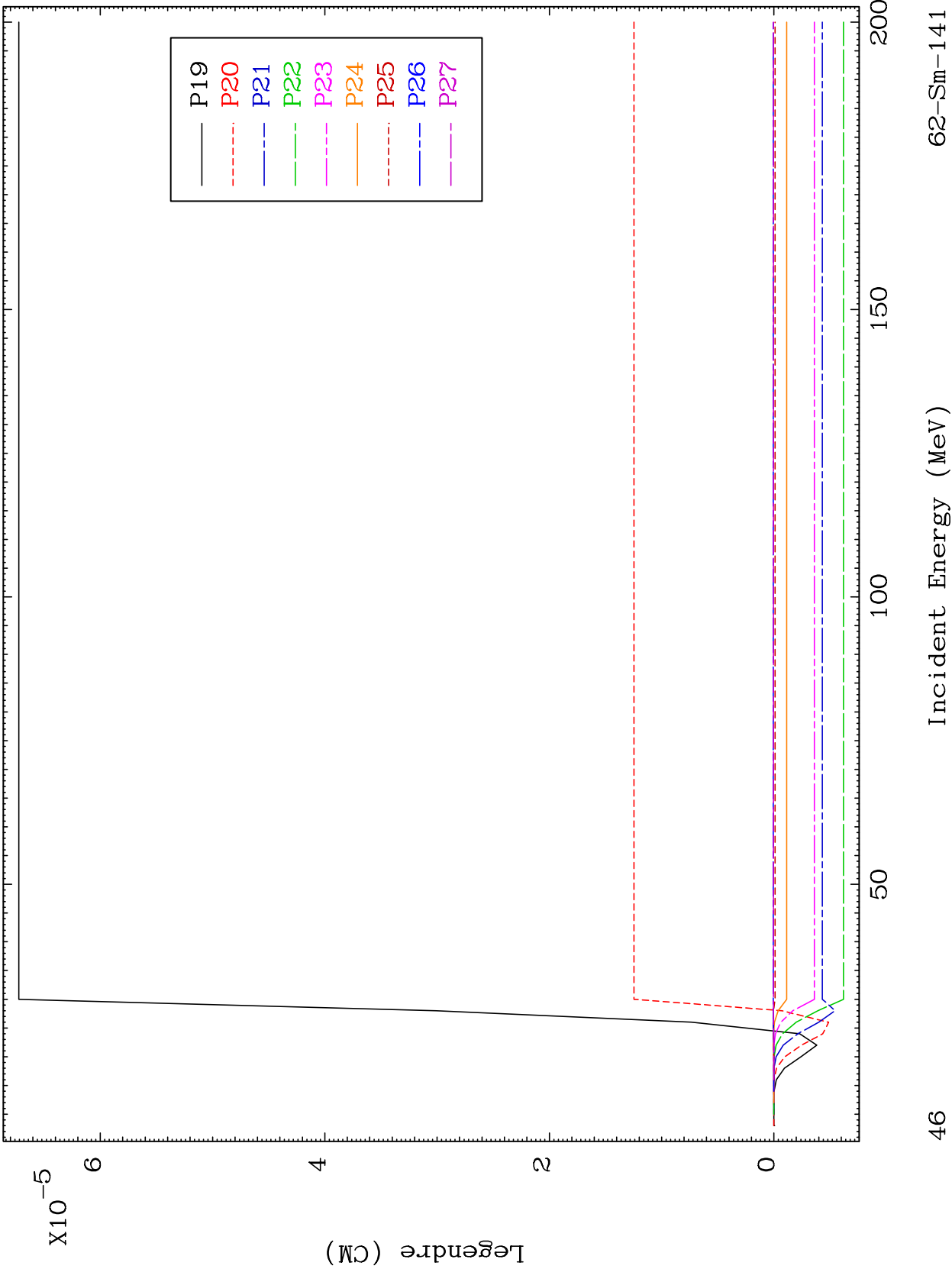
Incident Energy (MeV)

45

MAT 6216

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

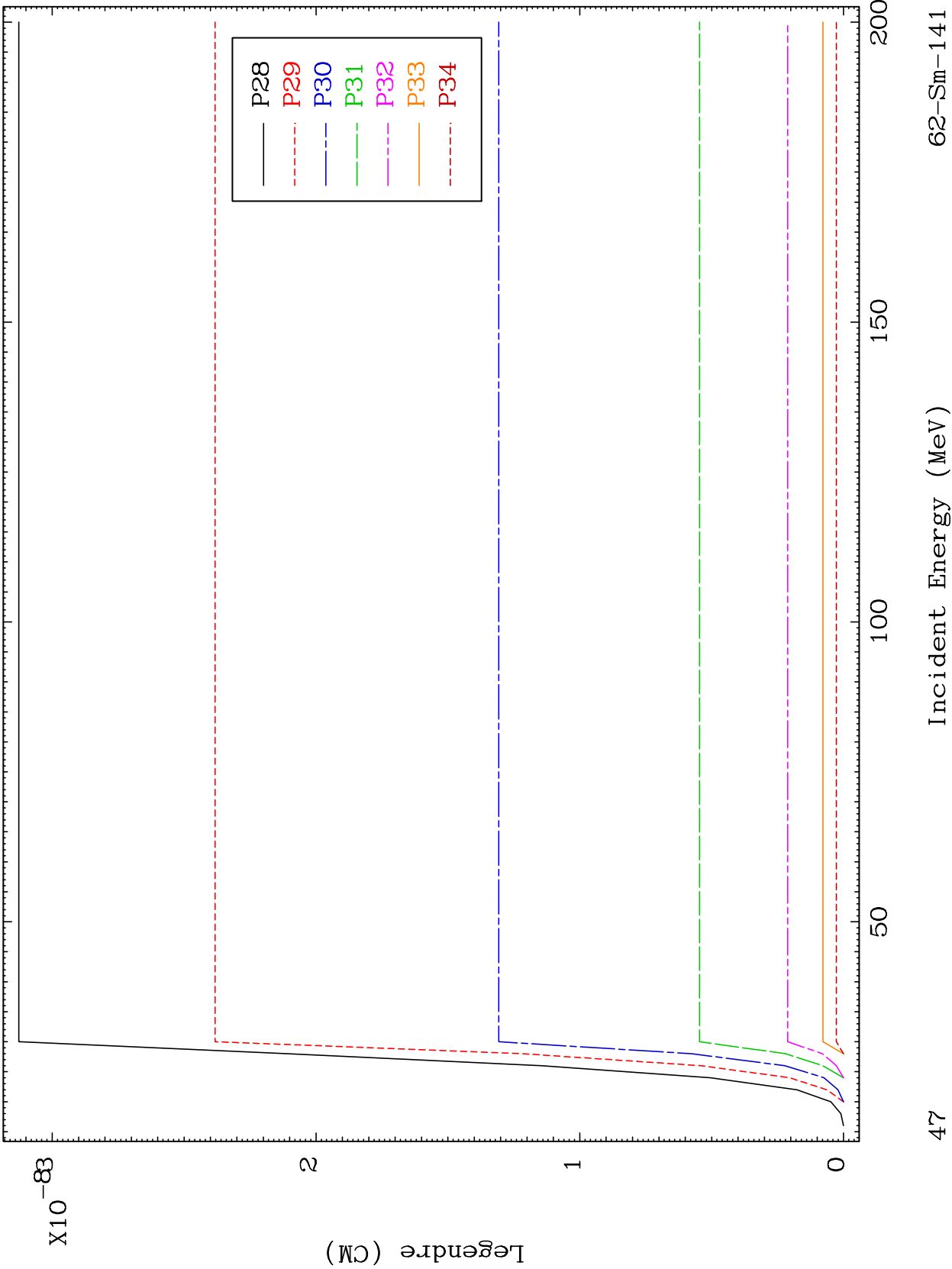
62-Sm-141



MAT 6216

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

62-Sm-141

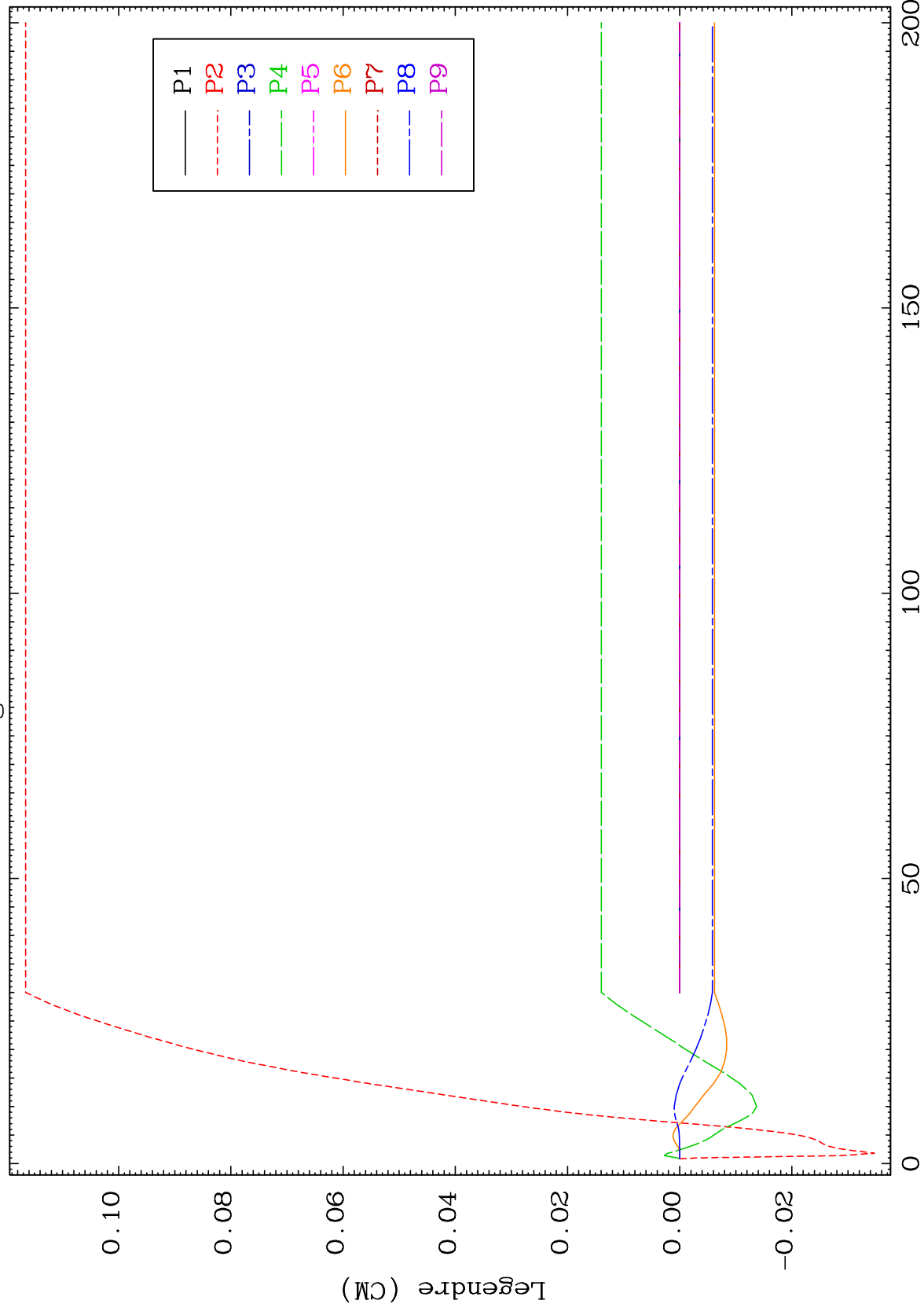




MAT 6216

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

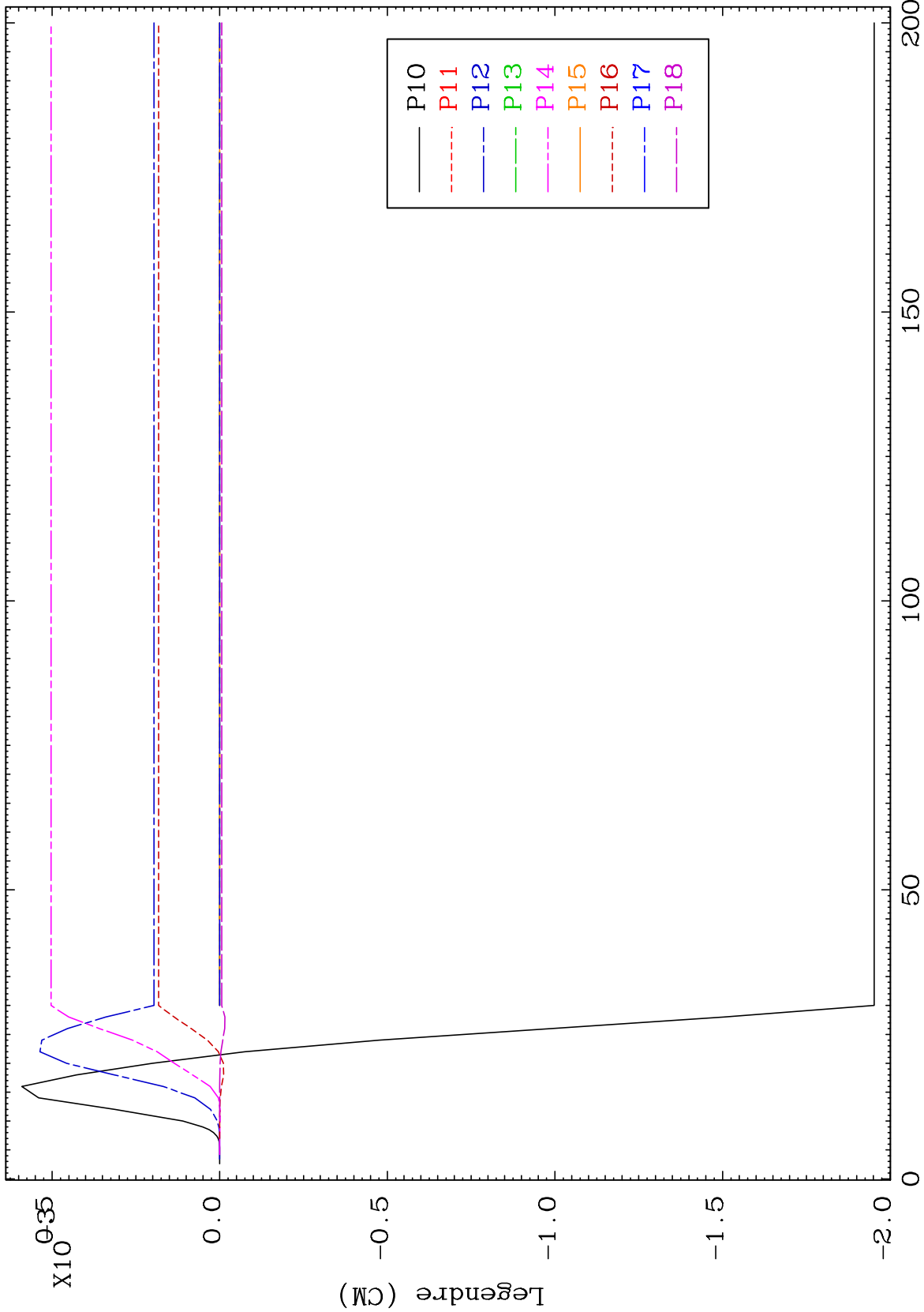
62-Sm-141

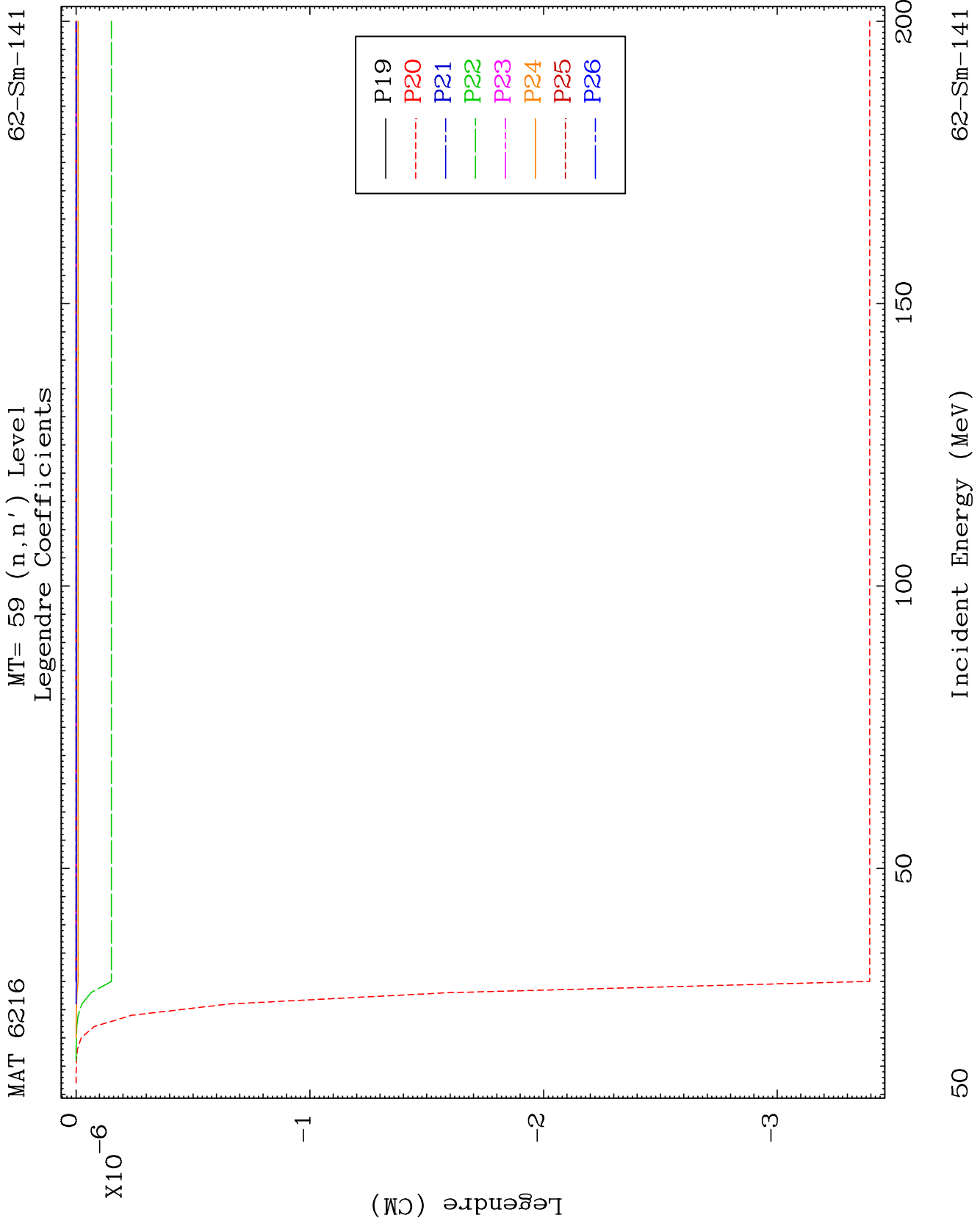


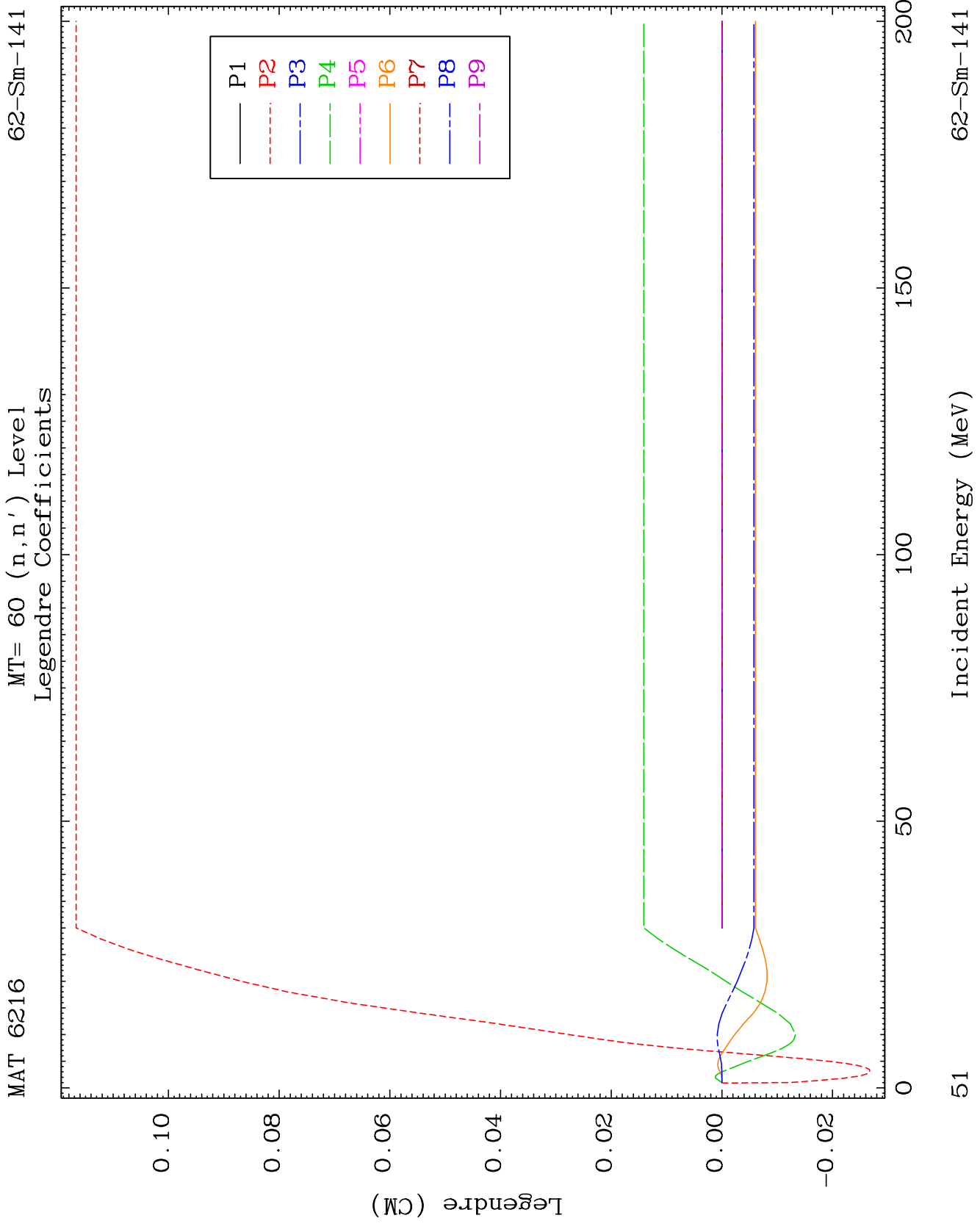
48

Incident Energy (MeV)

62-Sm-141



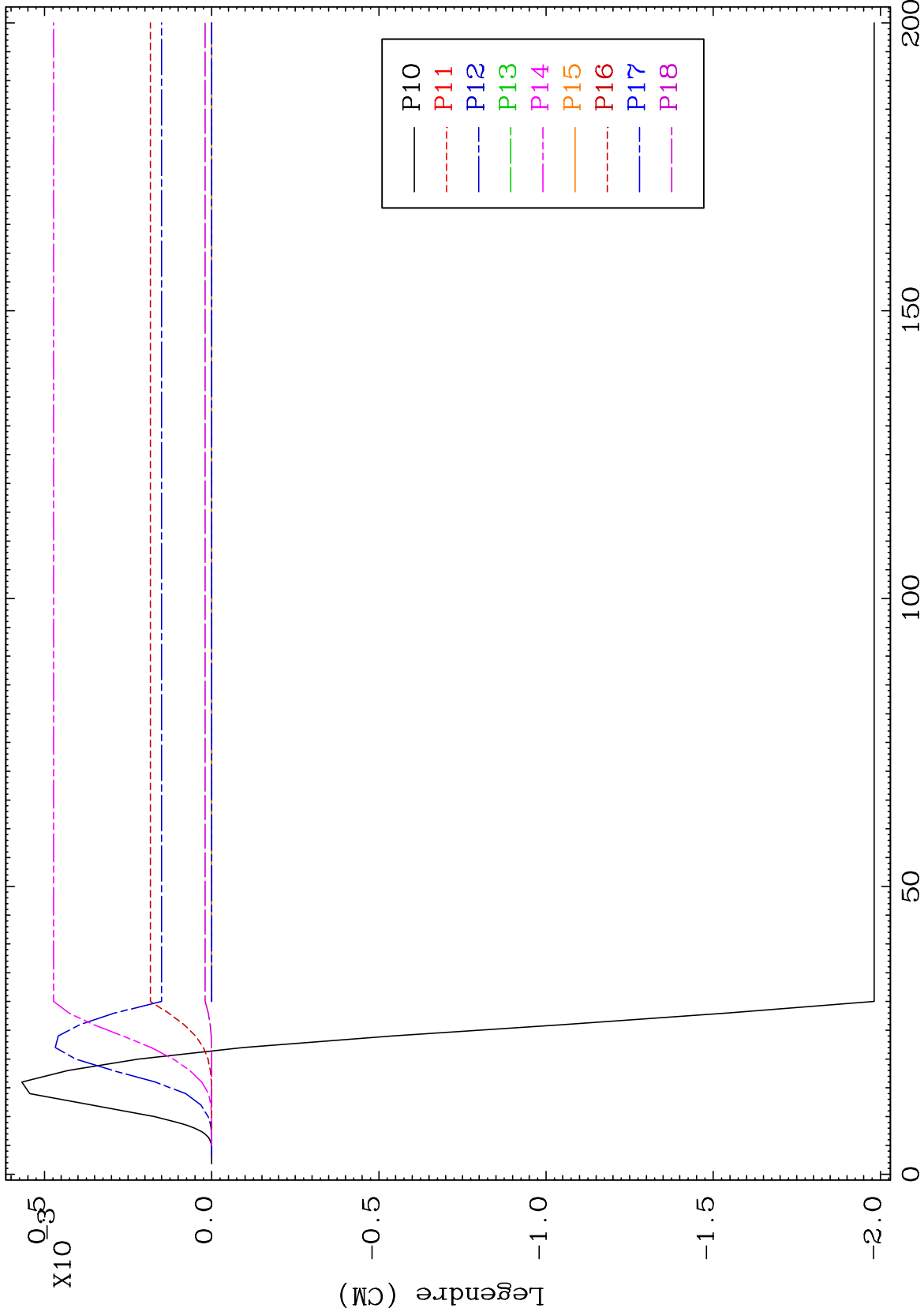




MAT 6216

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

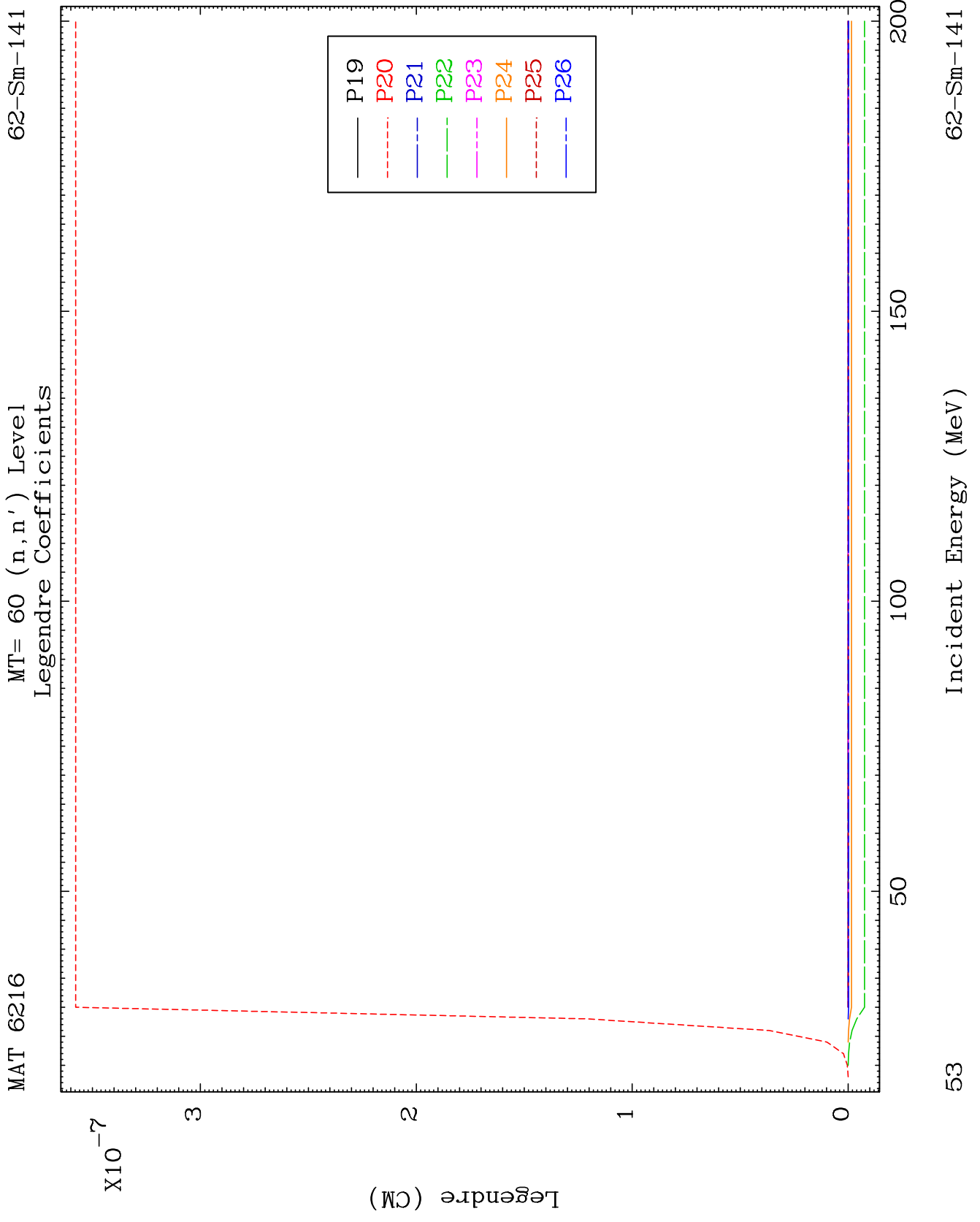
62-Sm-141



52

Incident Energy (MeV)

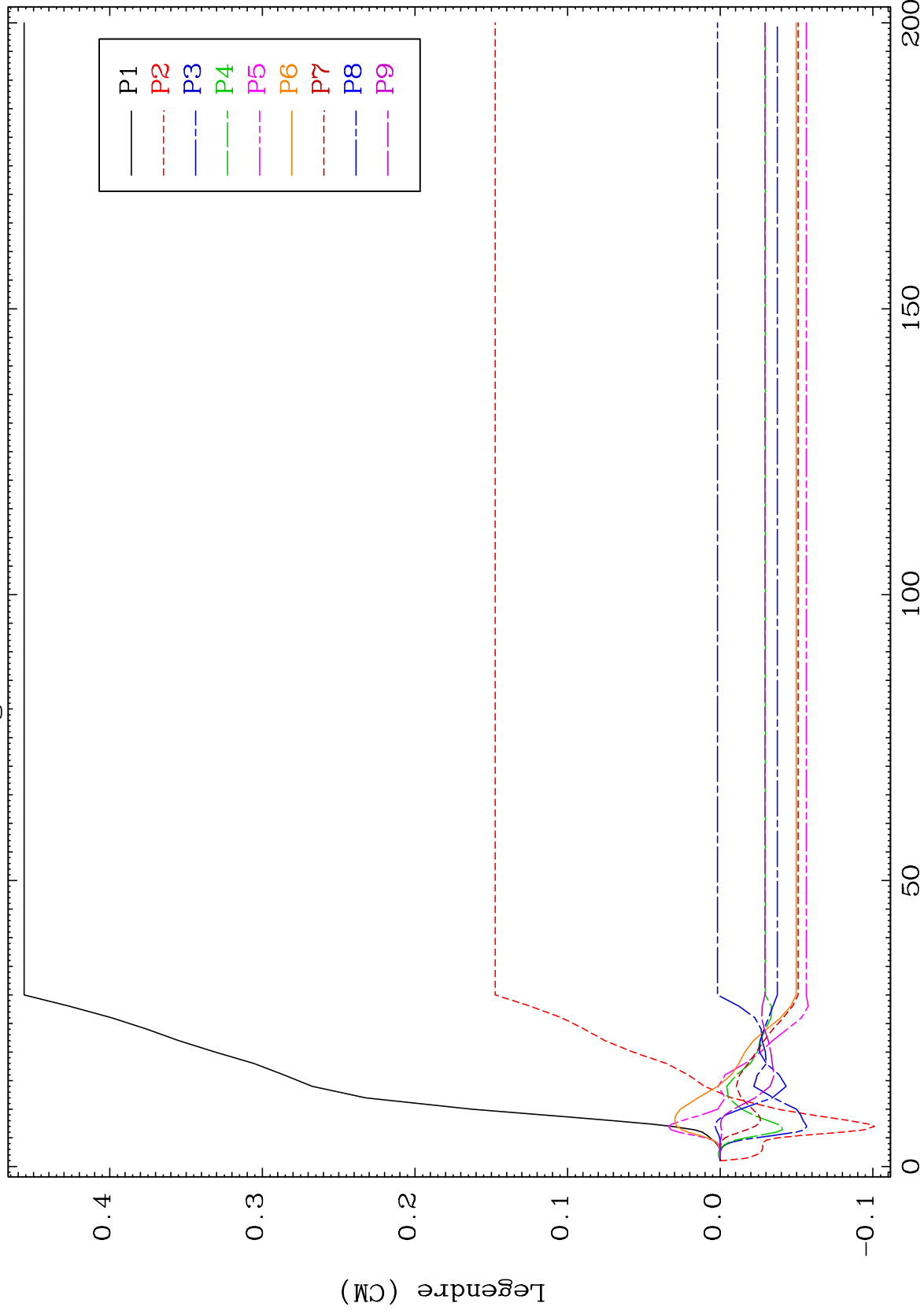
62-Sm-141



MAT 6216

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

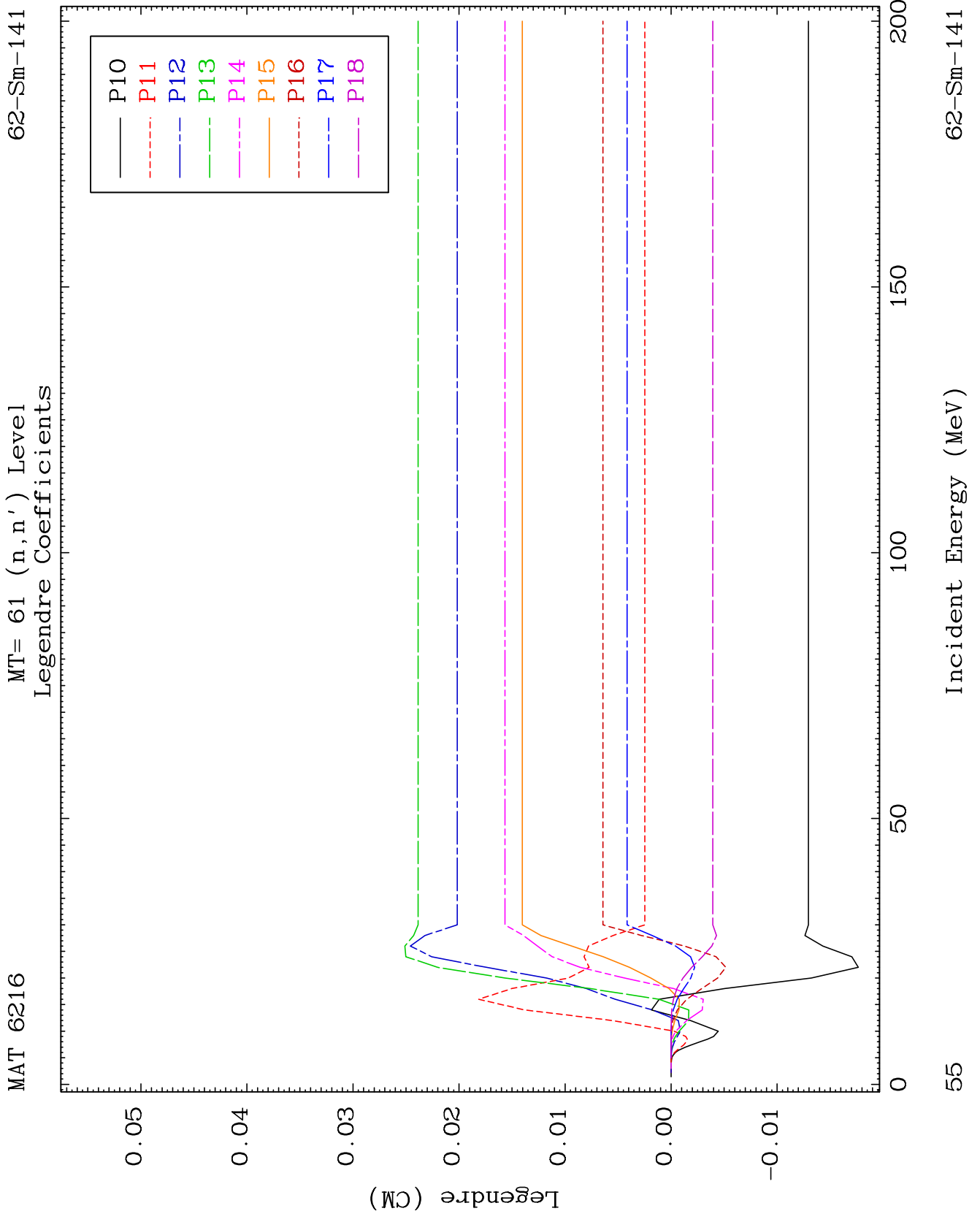
62-Sm-141



54

Incident Energy (MeV)

62-Sm-141

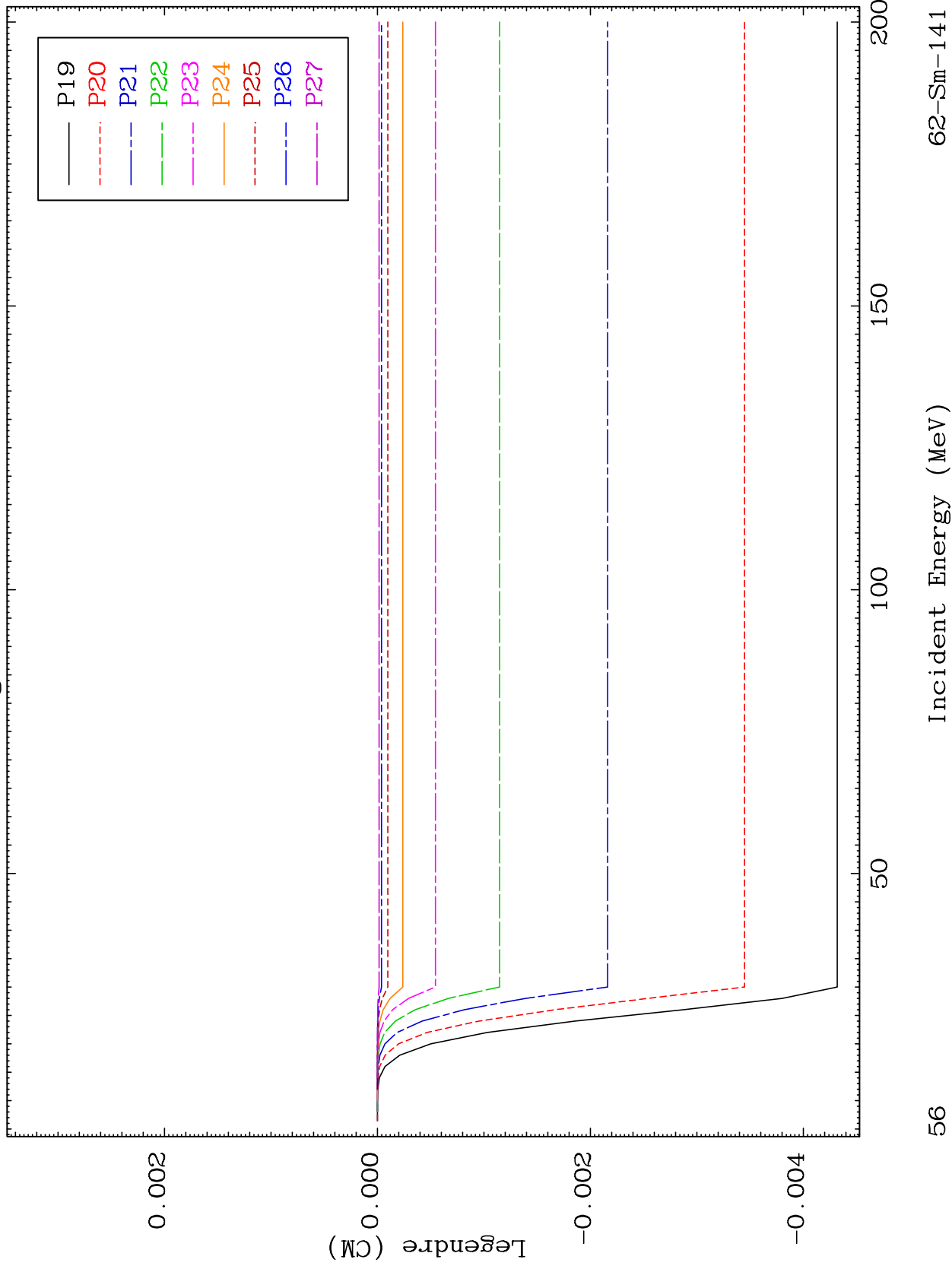




MAT 6216

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

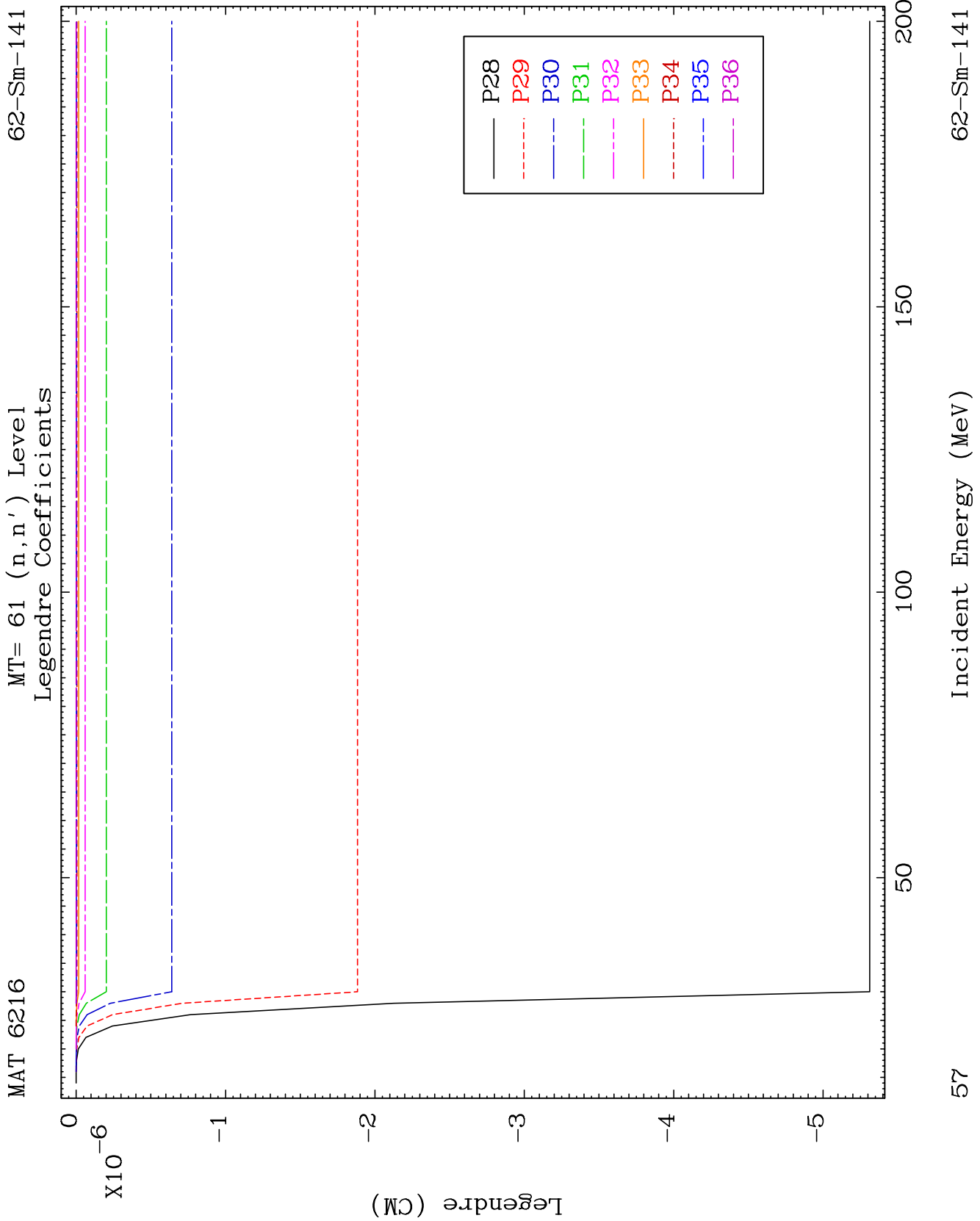
62-Sm-141

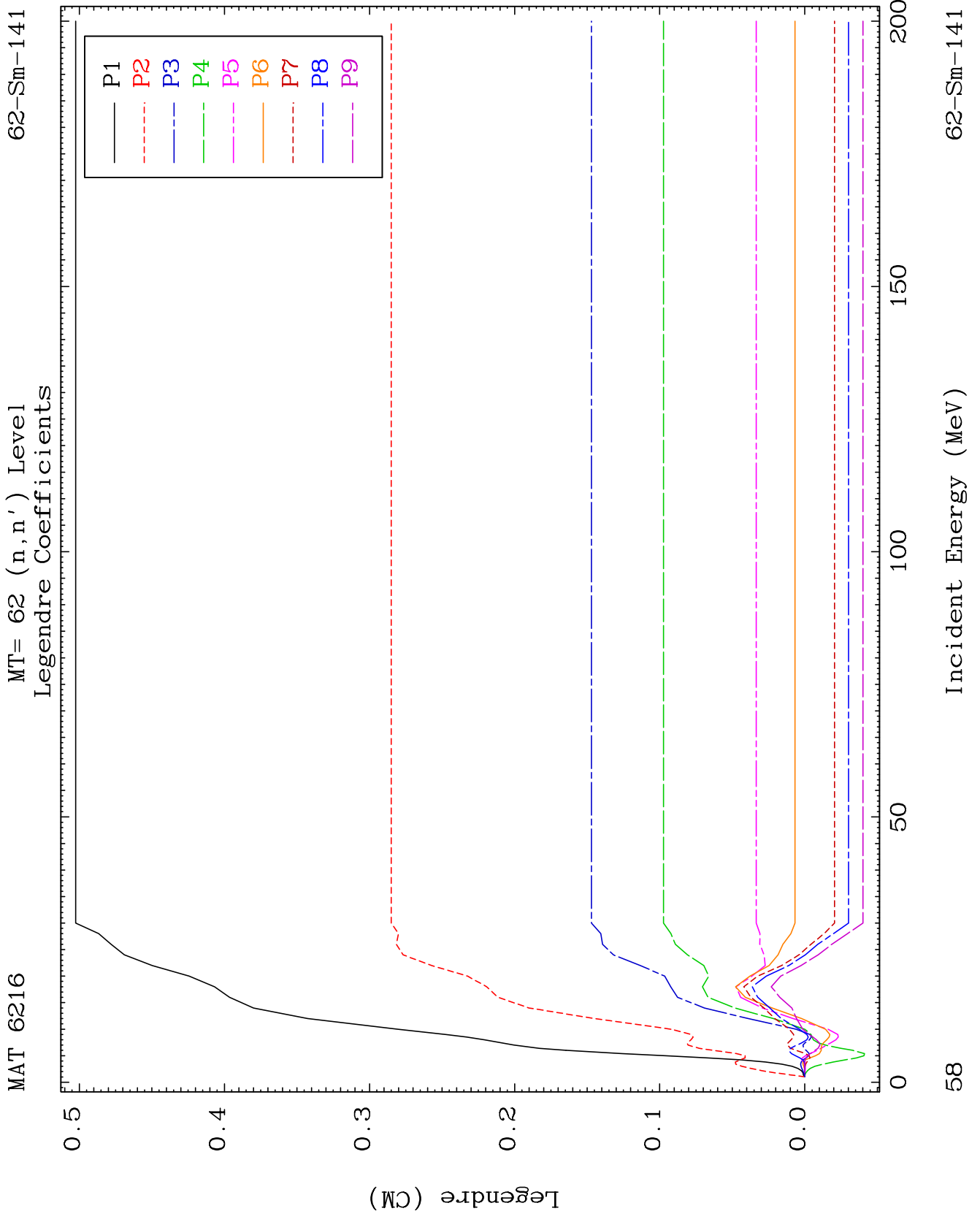


56

Incident Energy (MeV)

62-Sm-141

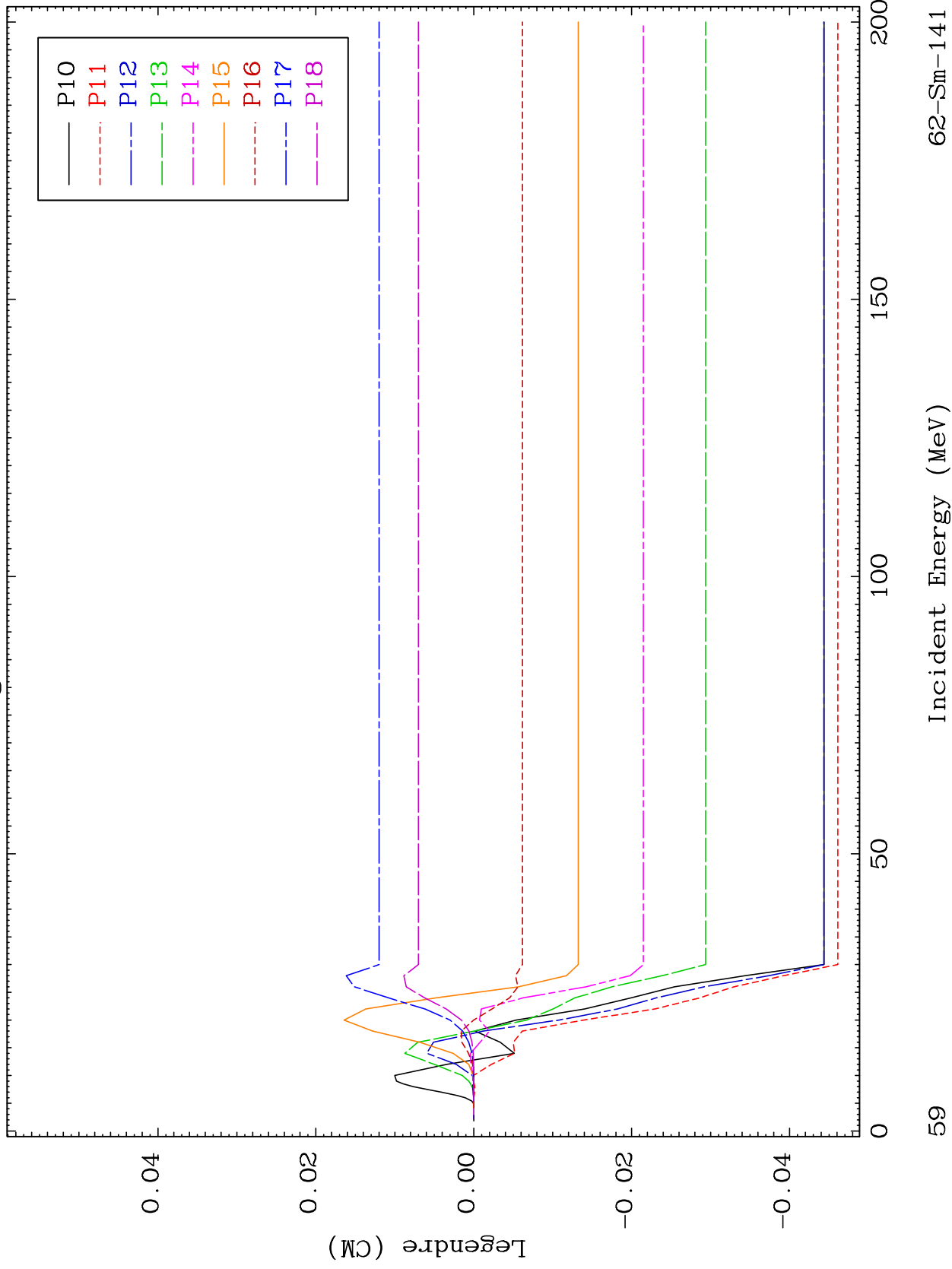




MAT 6216

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

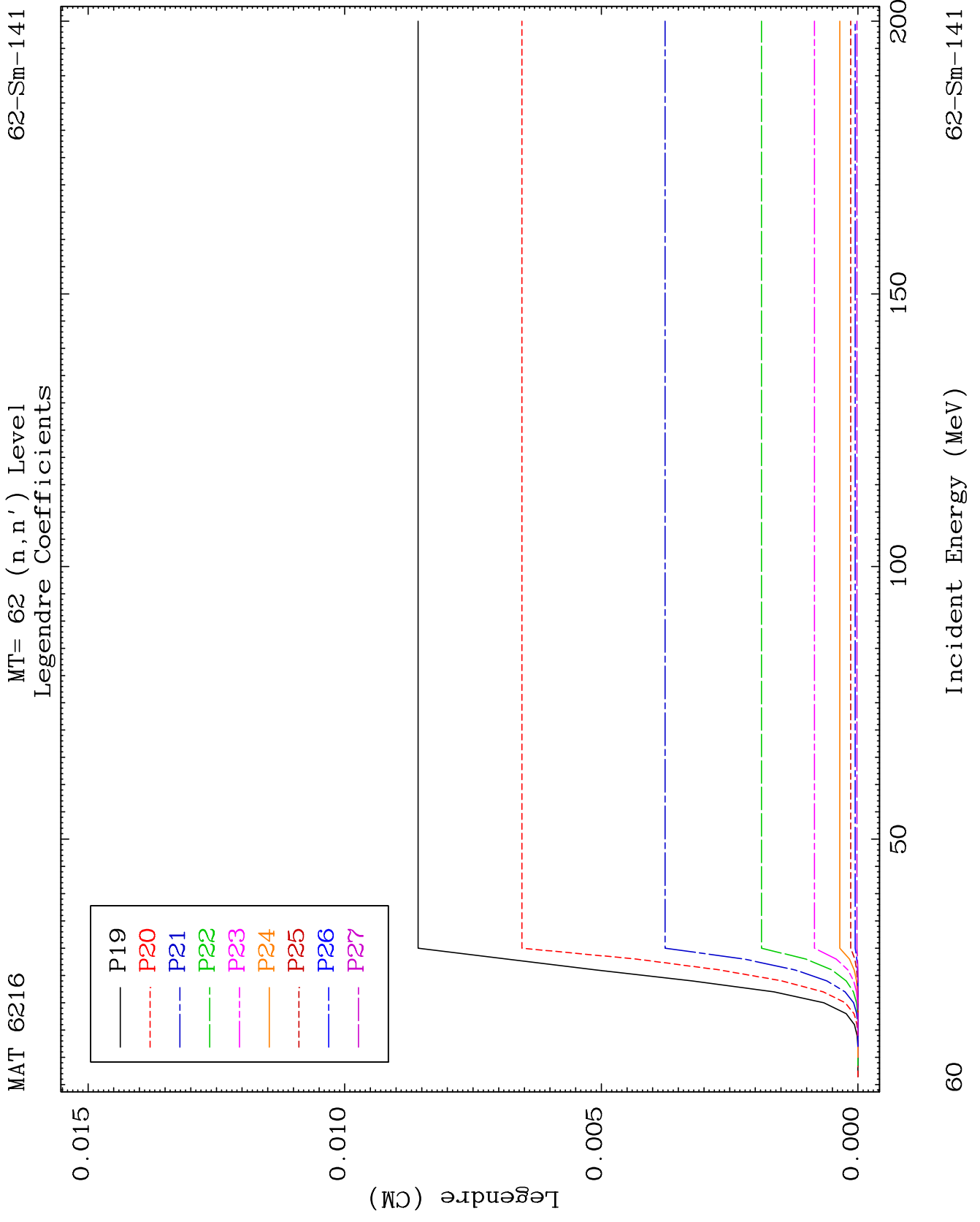
62-Sm-141



62-Sm-141

Incident Energy (MeV)

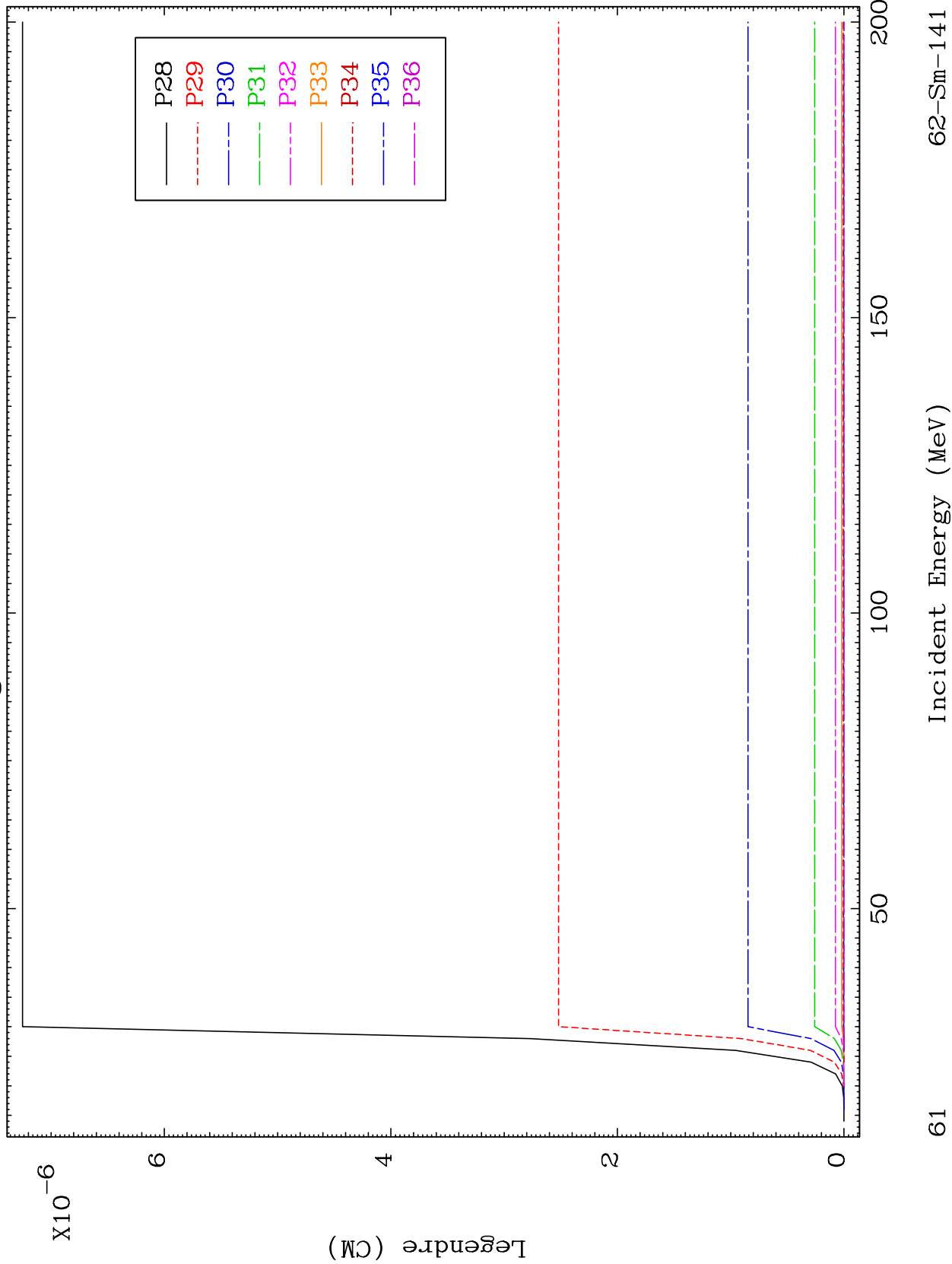
59



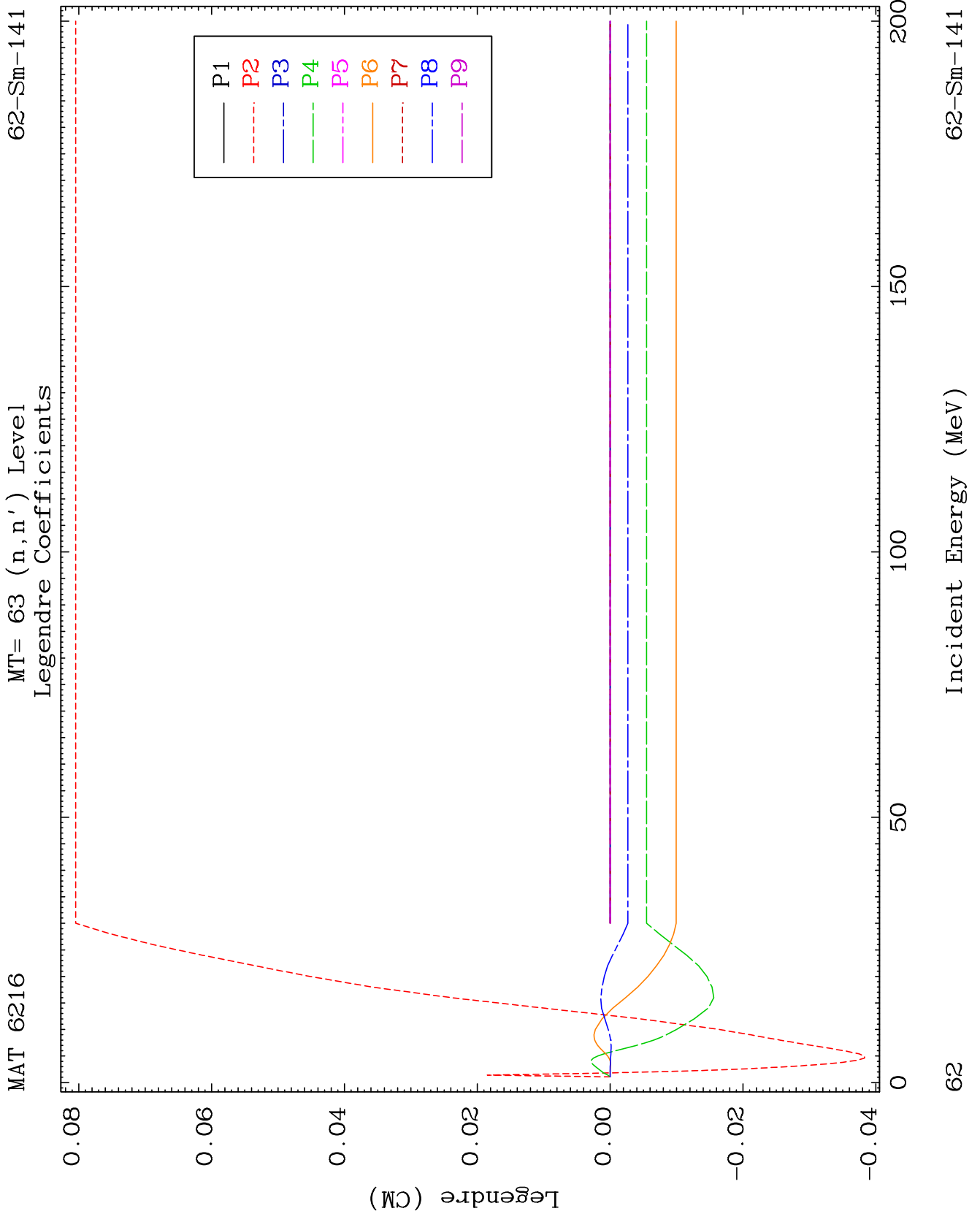
MAT 6216

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

62-Sm-141



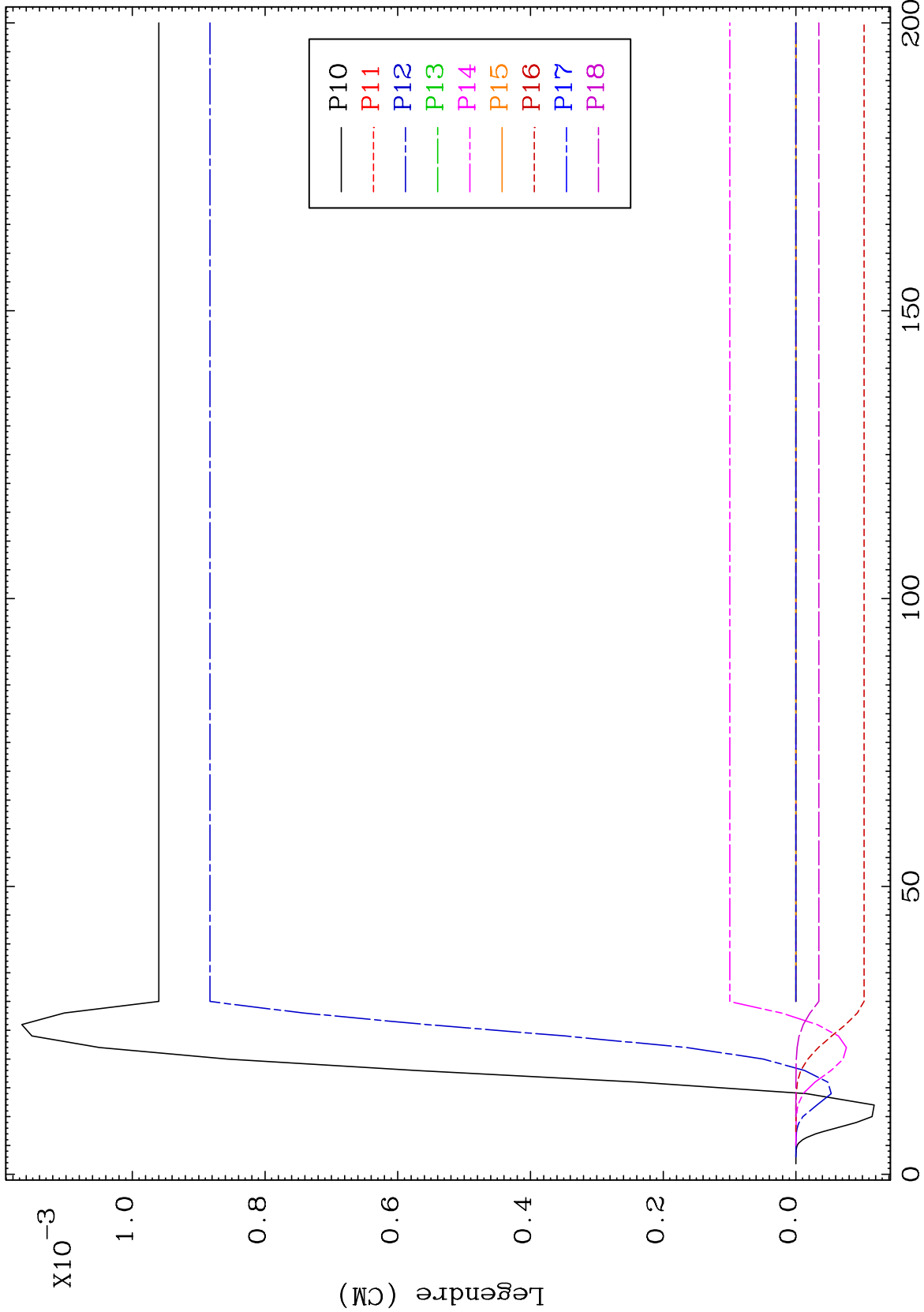
61



MAT 6216

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

62-Sm-141

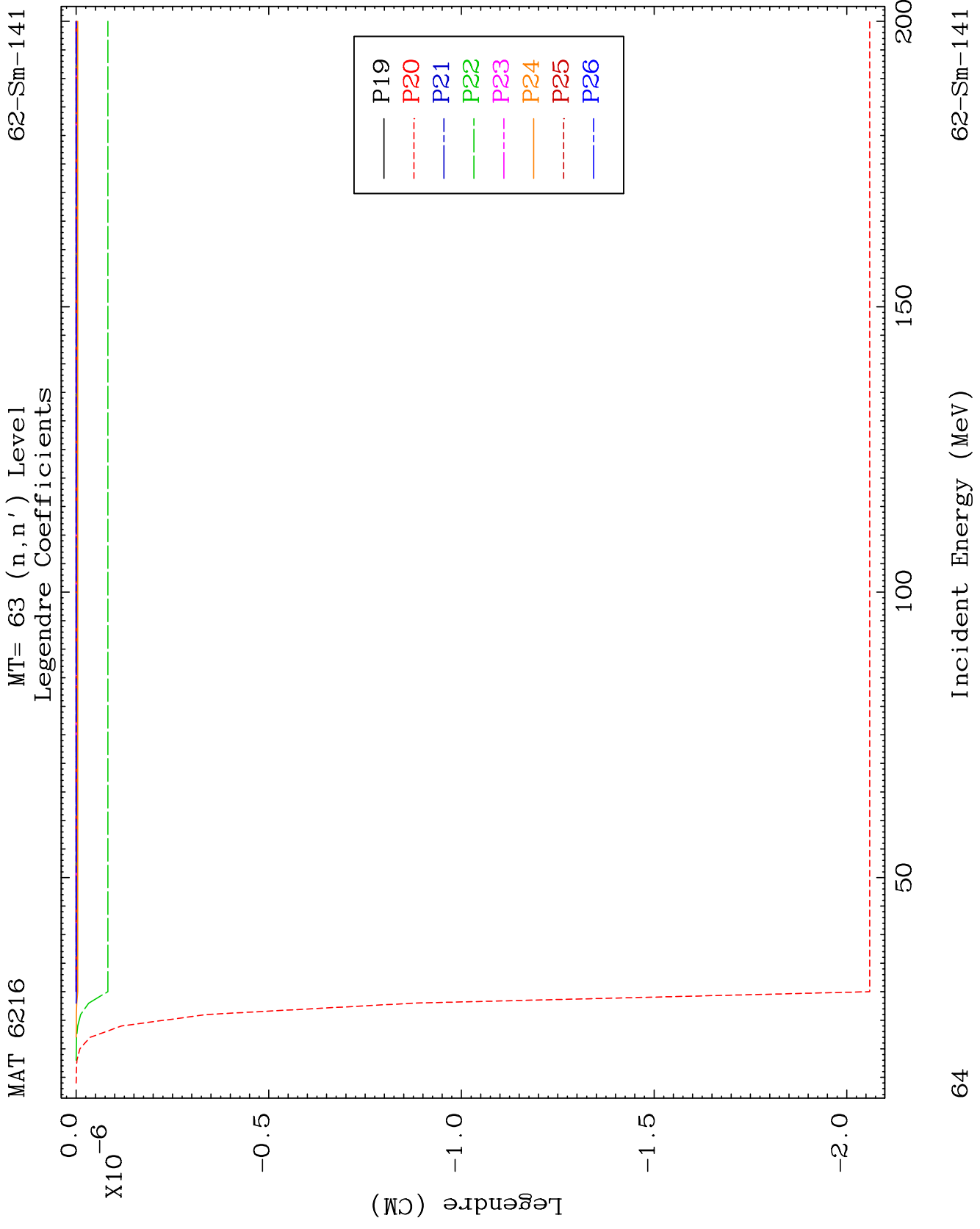


63

Incident Energy (MeV)

62-Sm-141

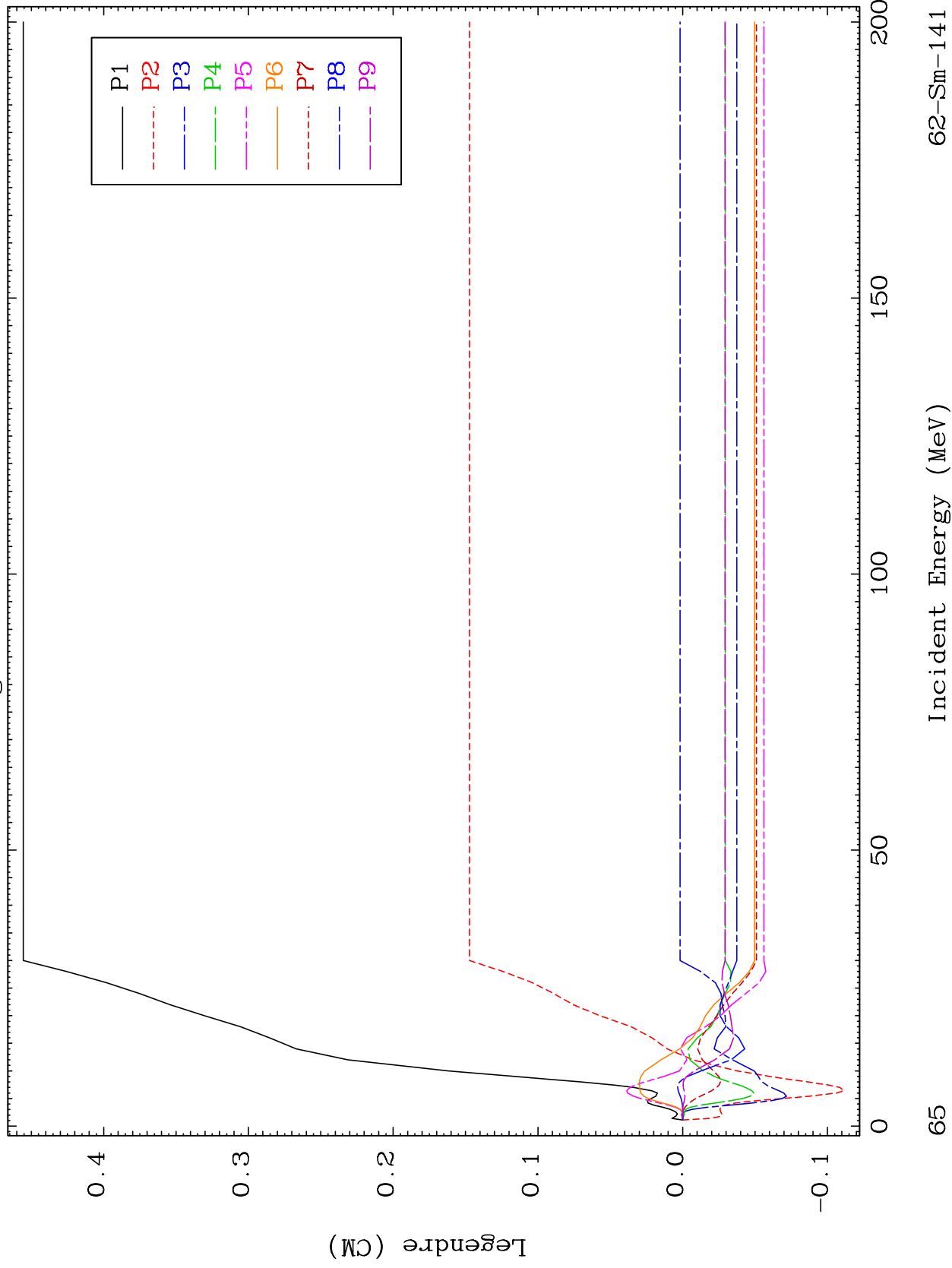




MAT 6216

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

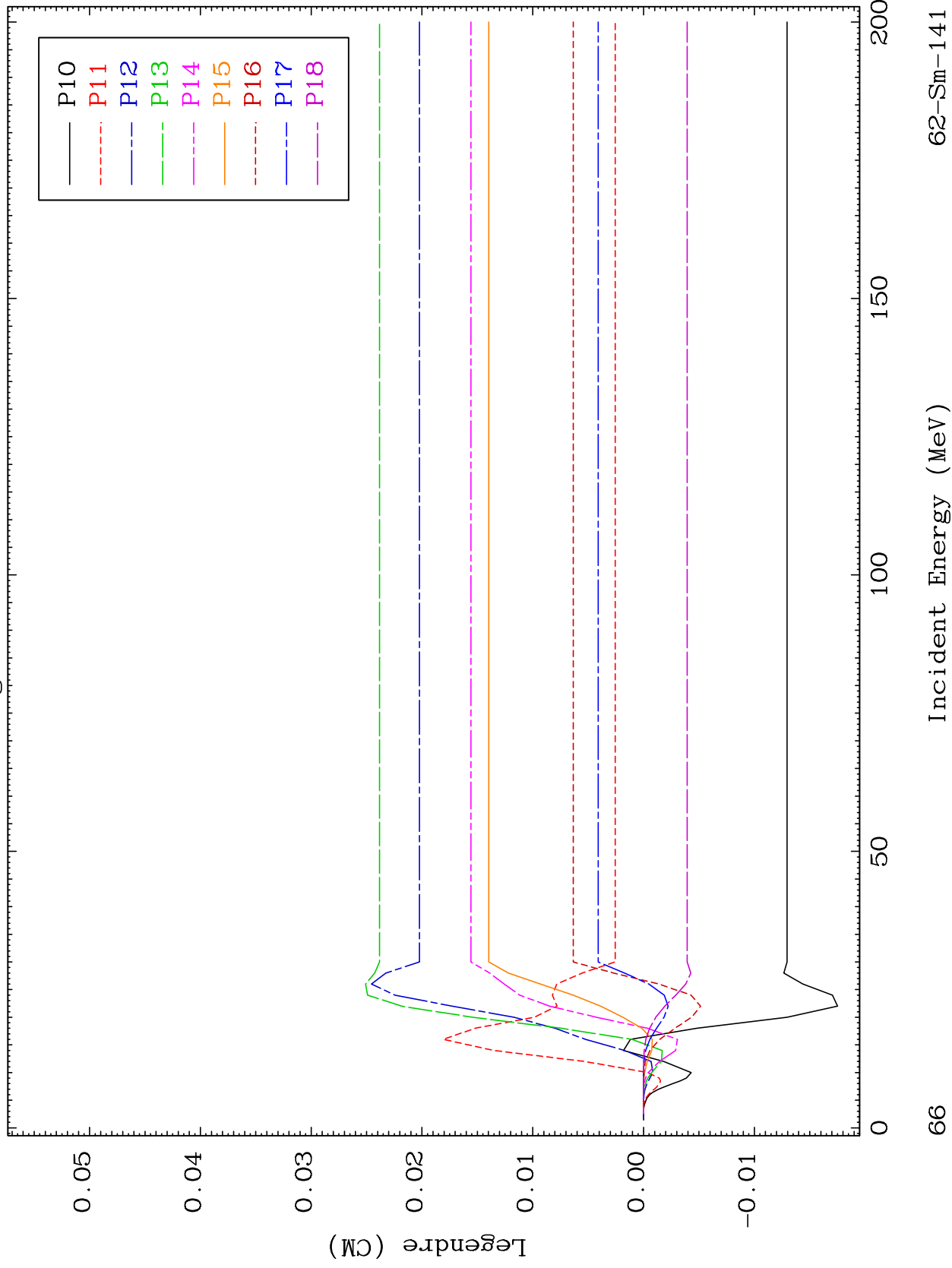
62-Sm-141



MAT 6216

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

62-Sm-141



62-Sm-141

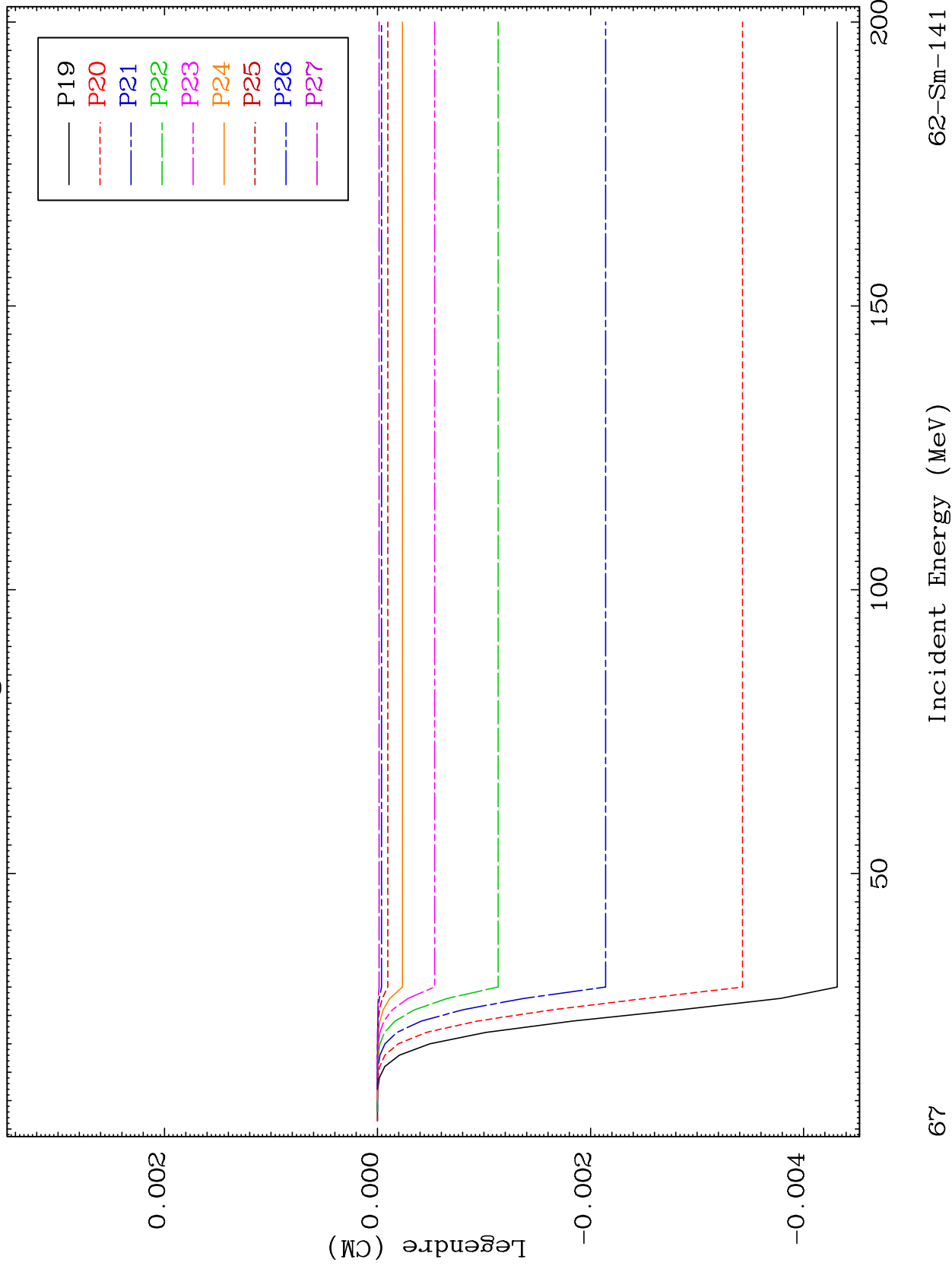
Incident Energy (MeV)

66

MAT 6216

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

62-Sm-141



67

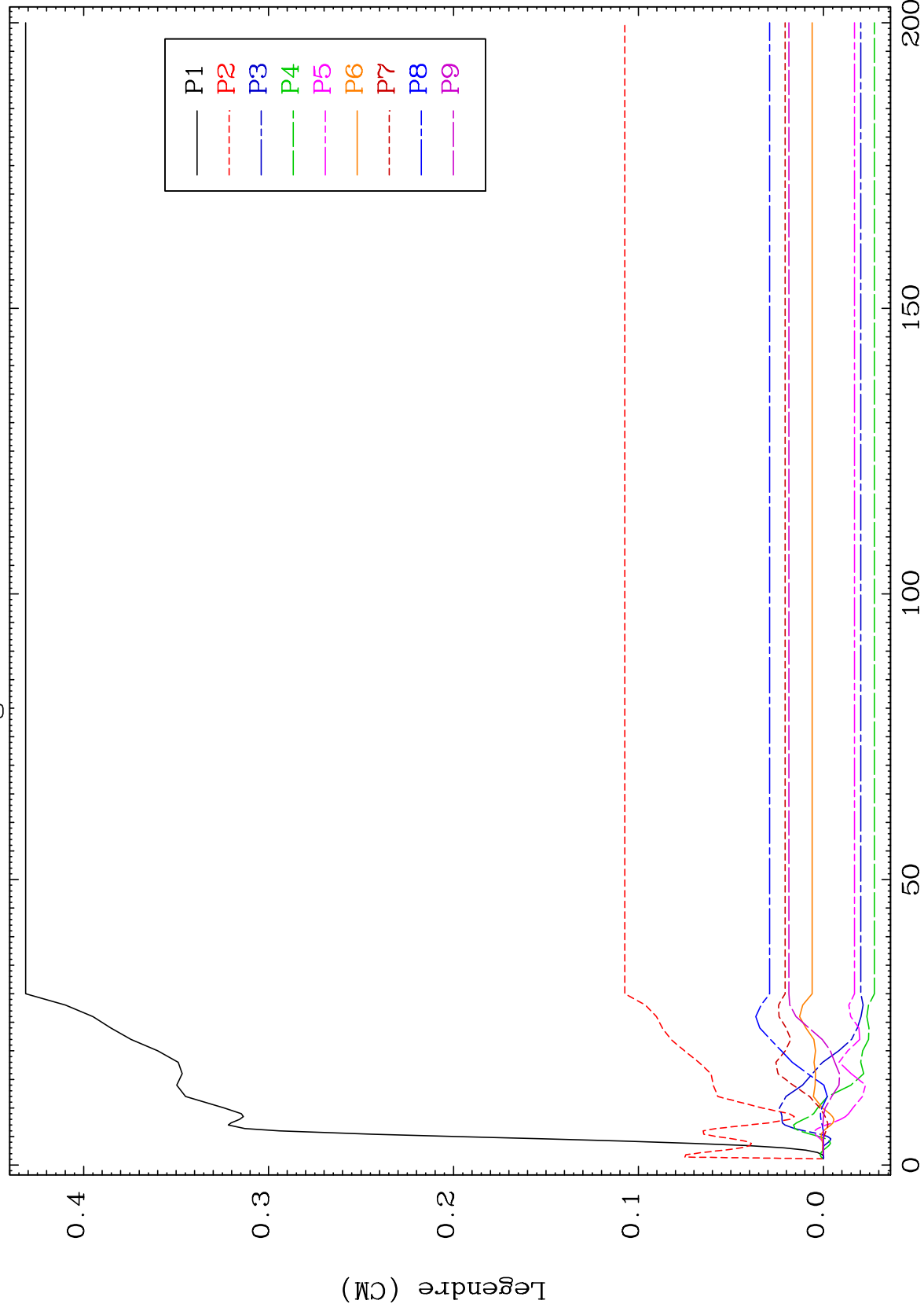
62-Sm-141



MAT 6216

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

62-Sm-141



69

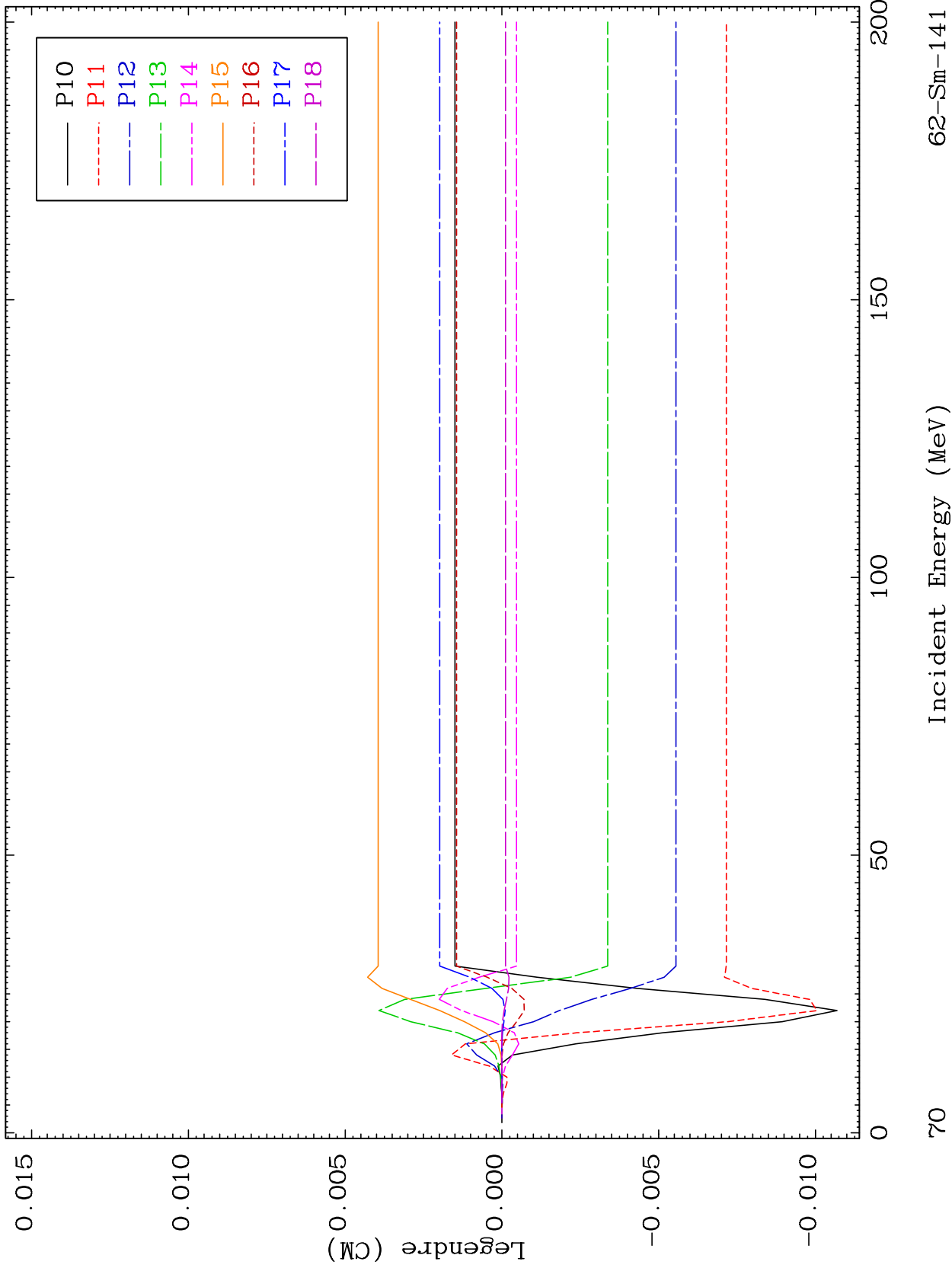
Incident Energy (MeV)

62-Sm-141

MAT 6216

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

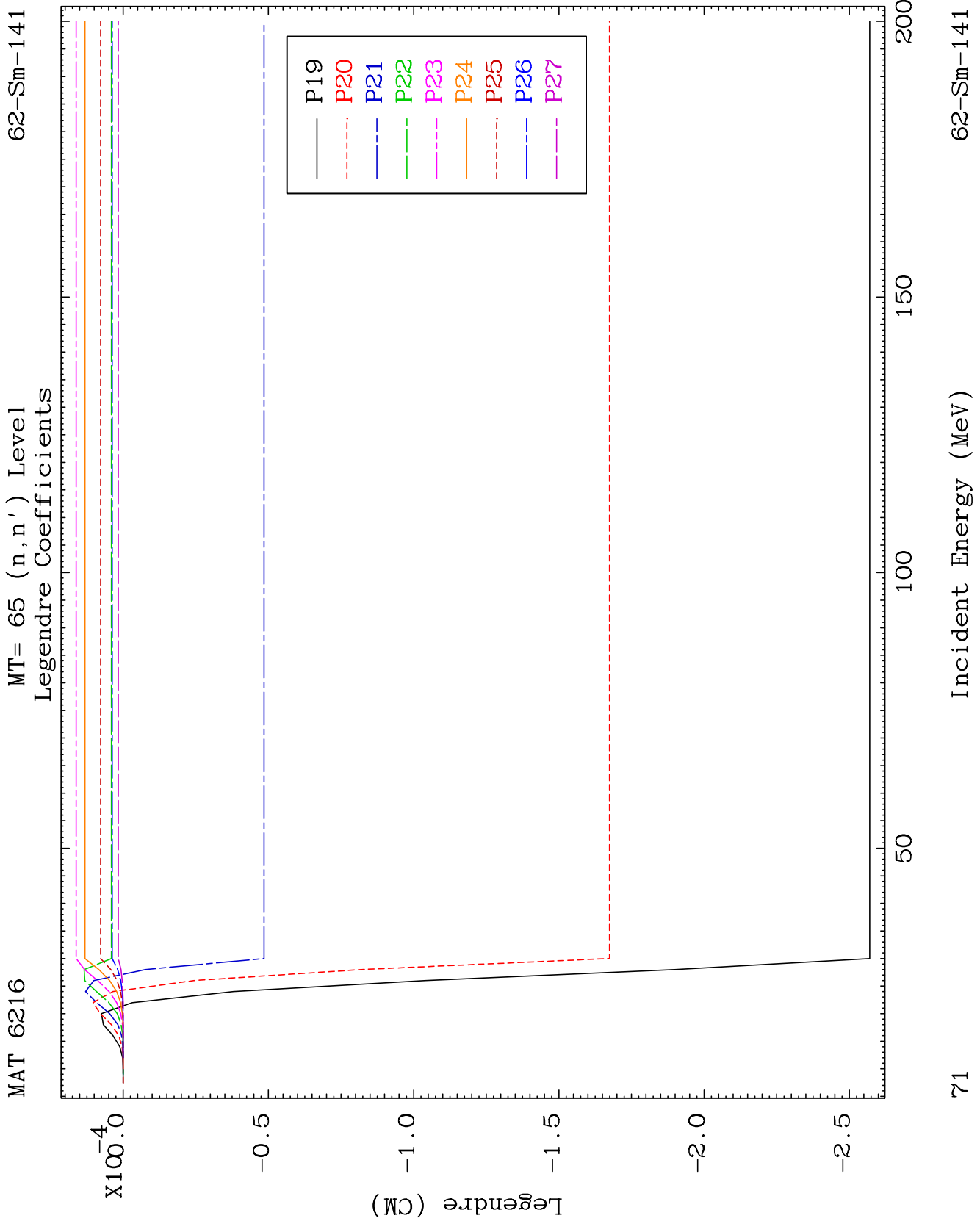
62-Sm-141



62-Sm-141

Incident Energy (MeV)

70

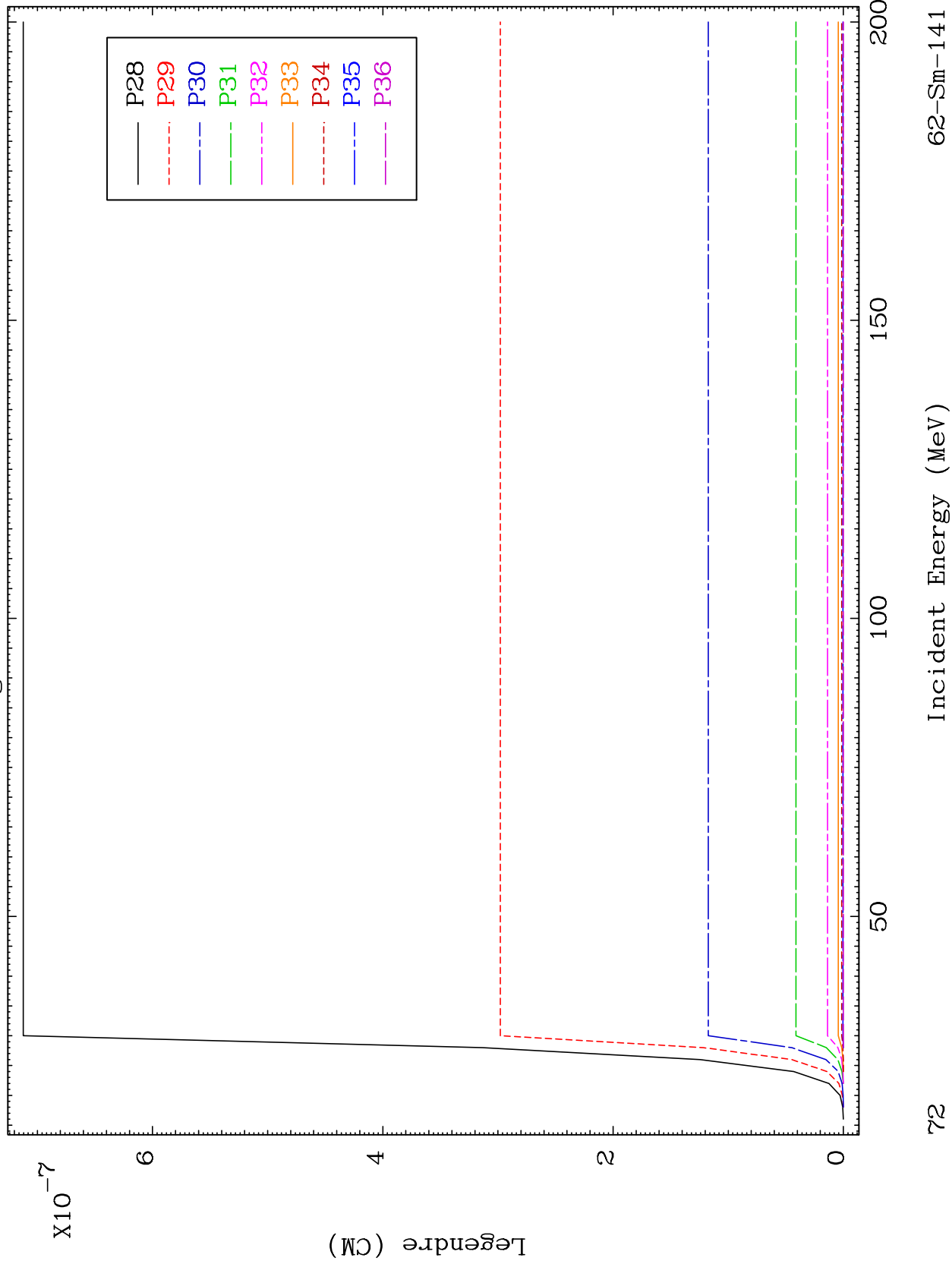




MAT 6216

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

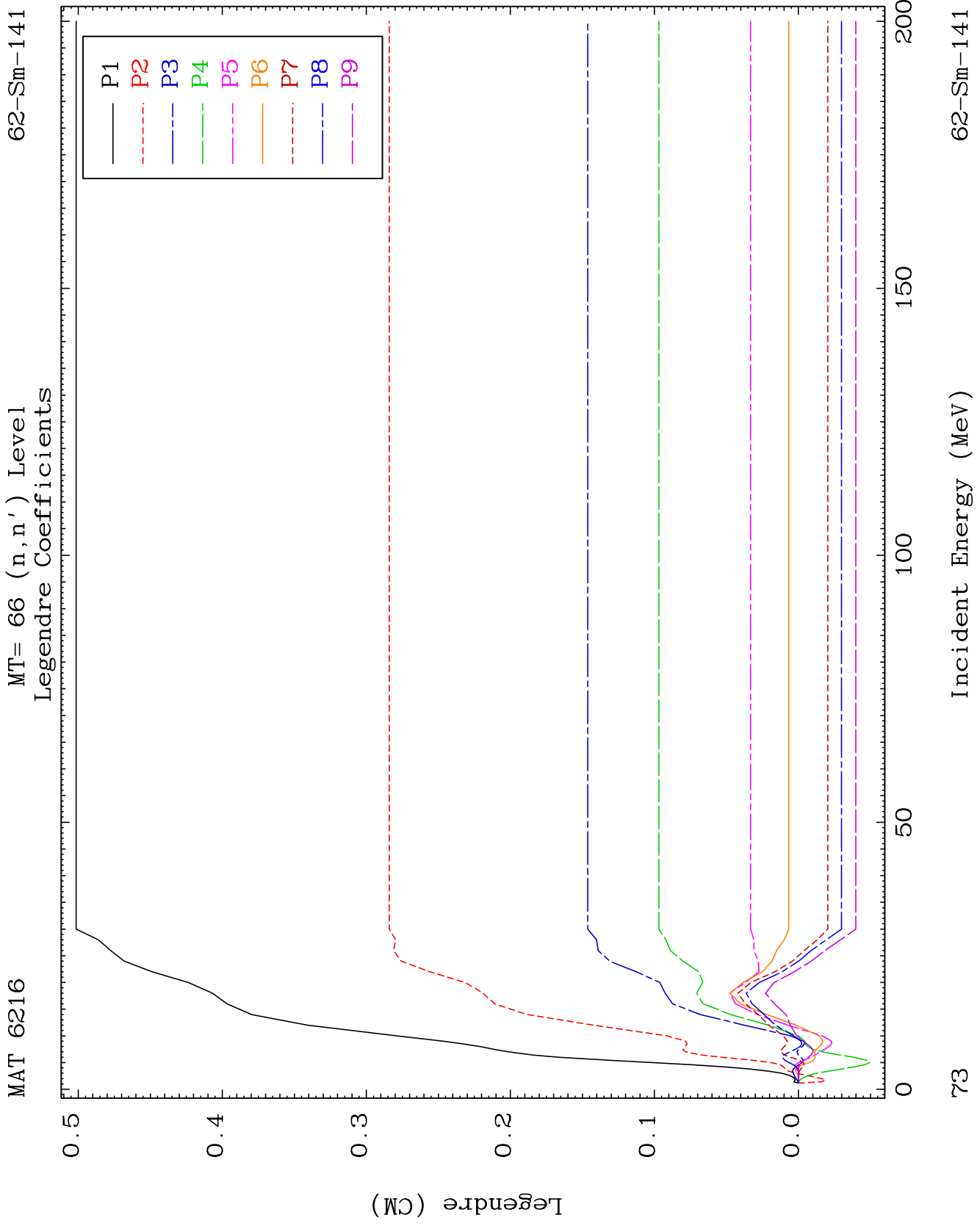
62-Sm-141



72

Incident Energy (MeV)

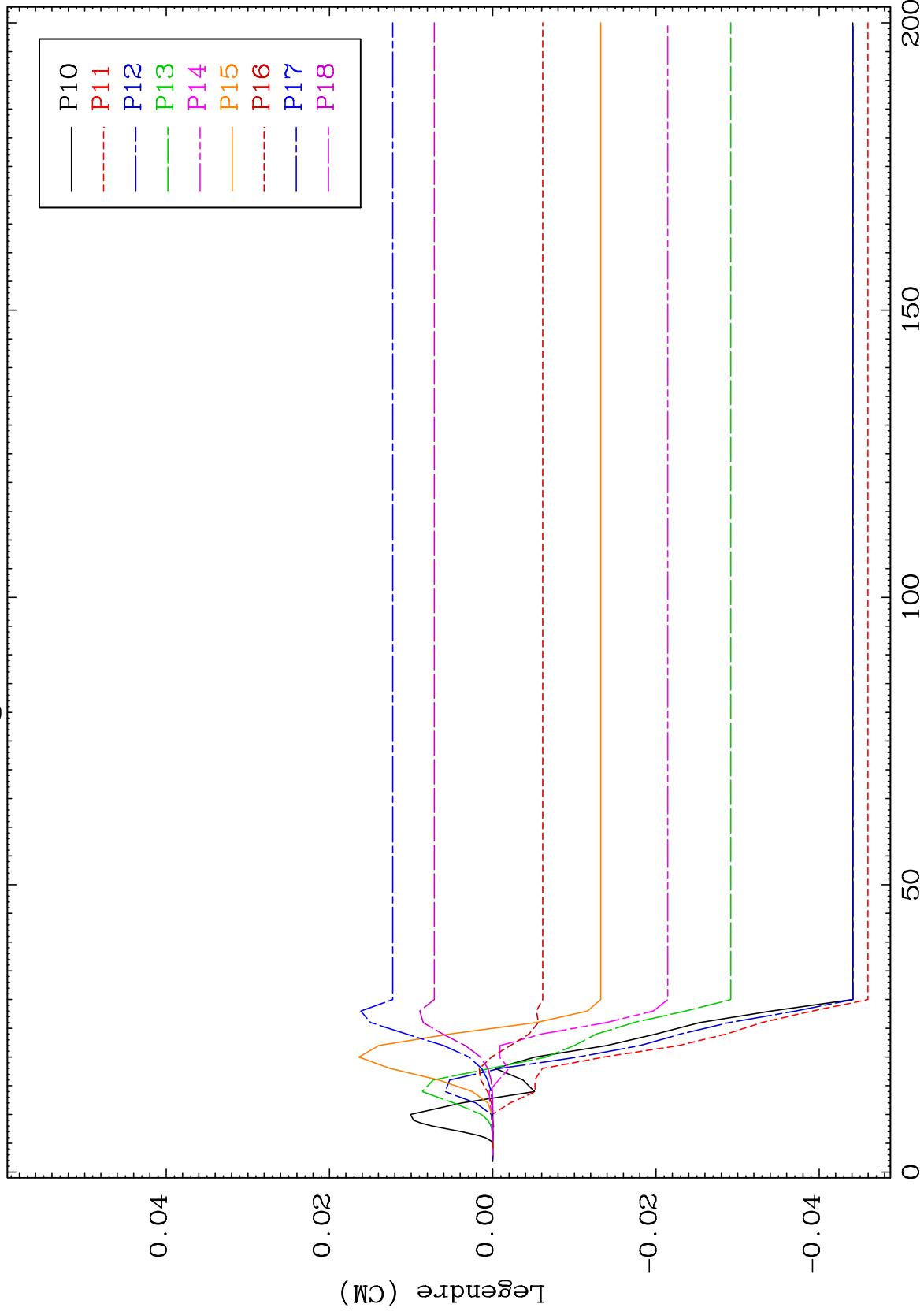
62-Sm-141



MAT 6216

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

62-Sm-141



74

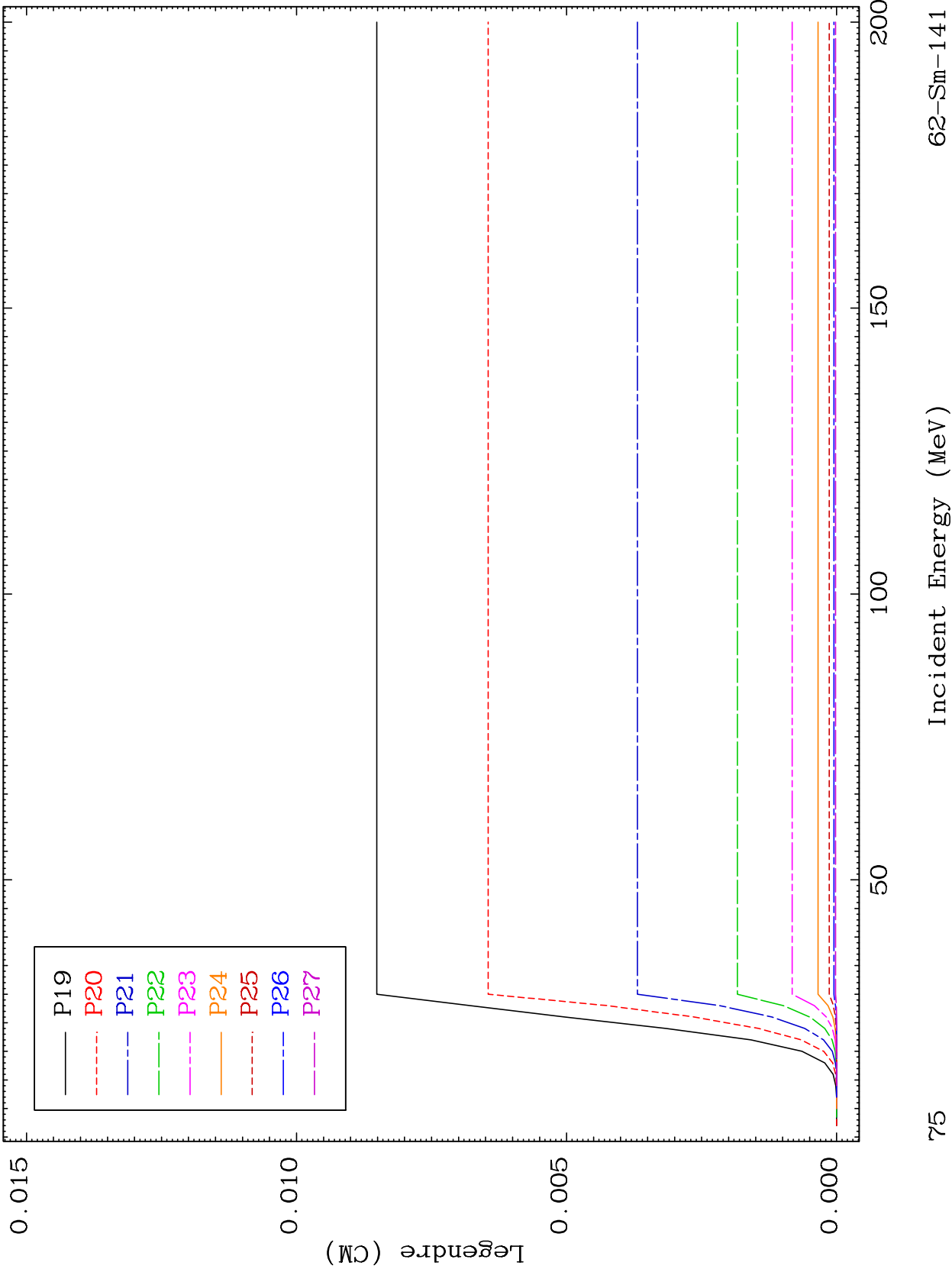
Incident Energy (MeV)

62-Sm-141

MAT 6216

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

62-Sm-141



75

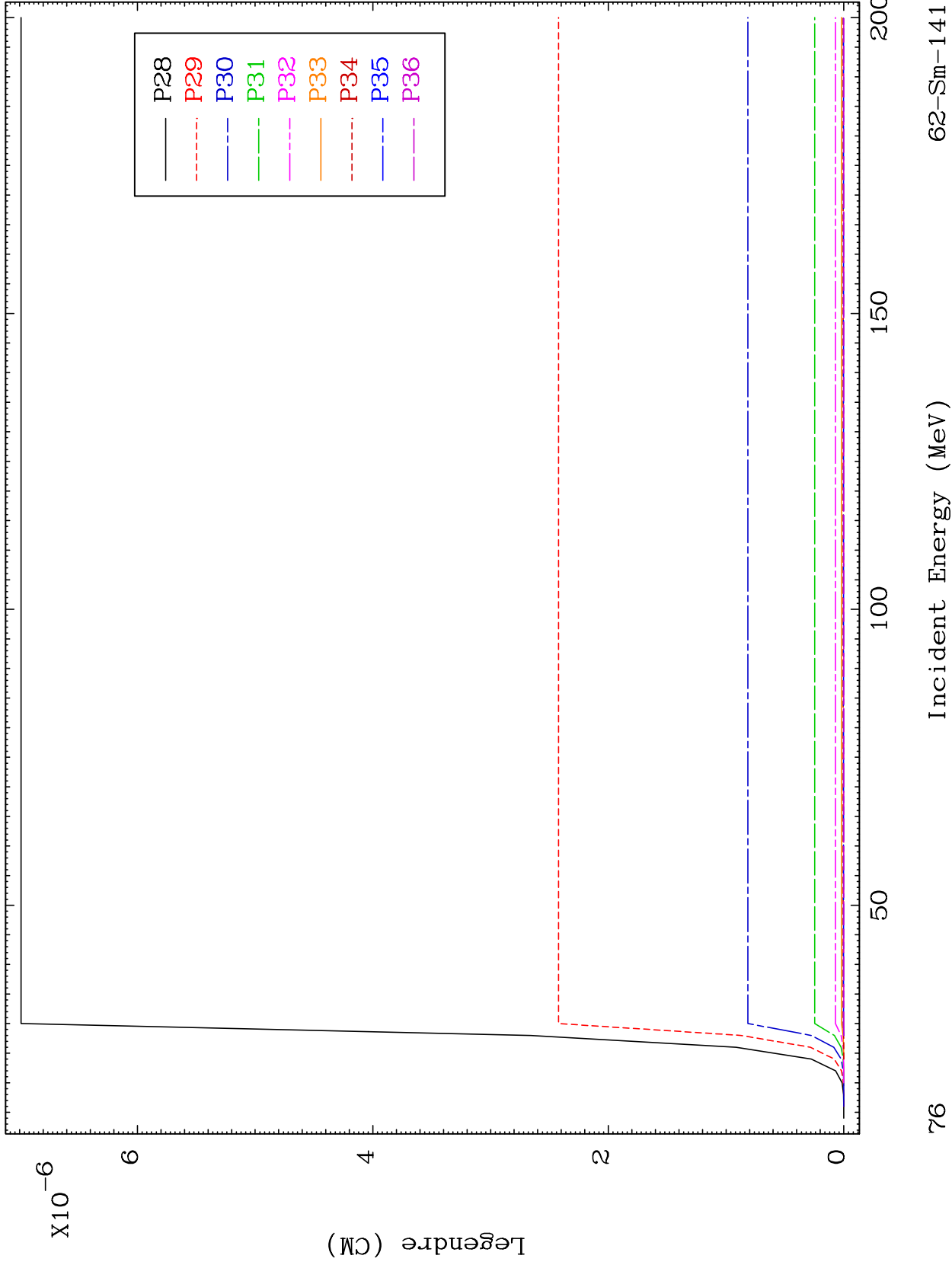
Incident Energy (MeV)

62-Sm-141

MAT 6216

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

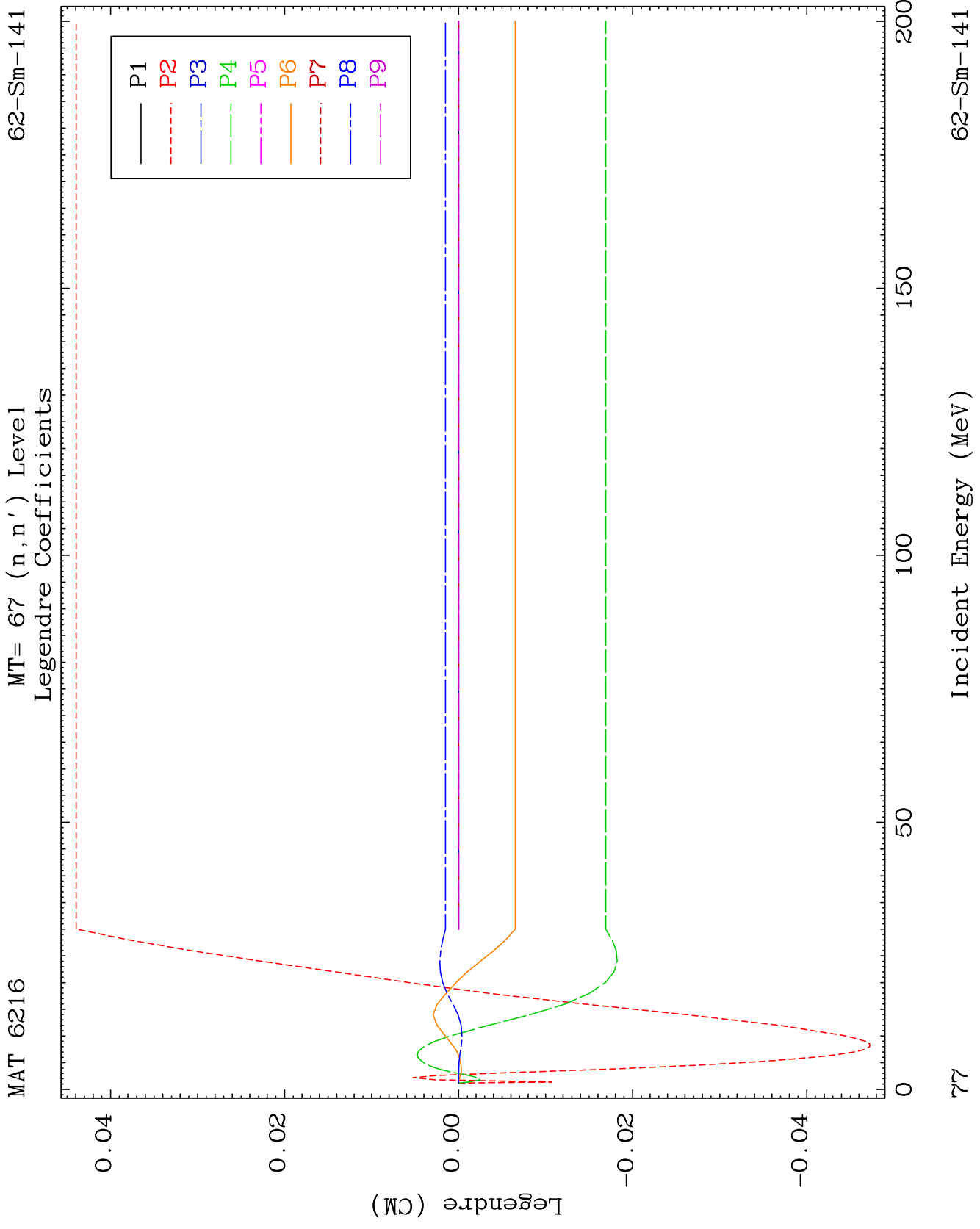
62-Sm-141



76

Incident Energy (MeV)

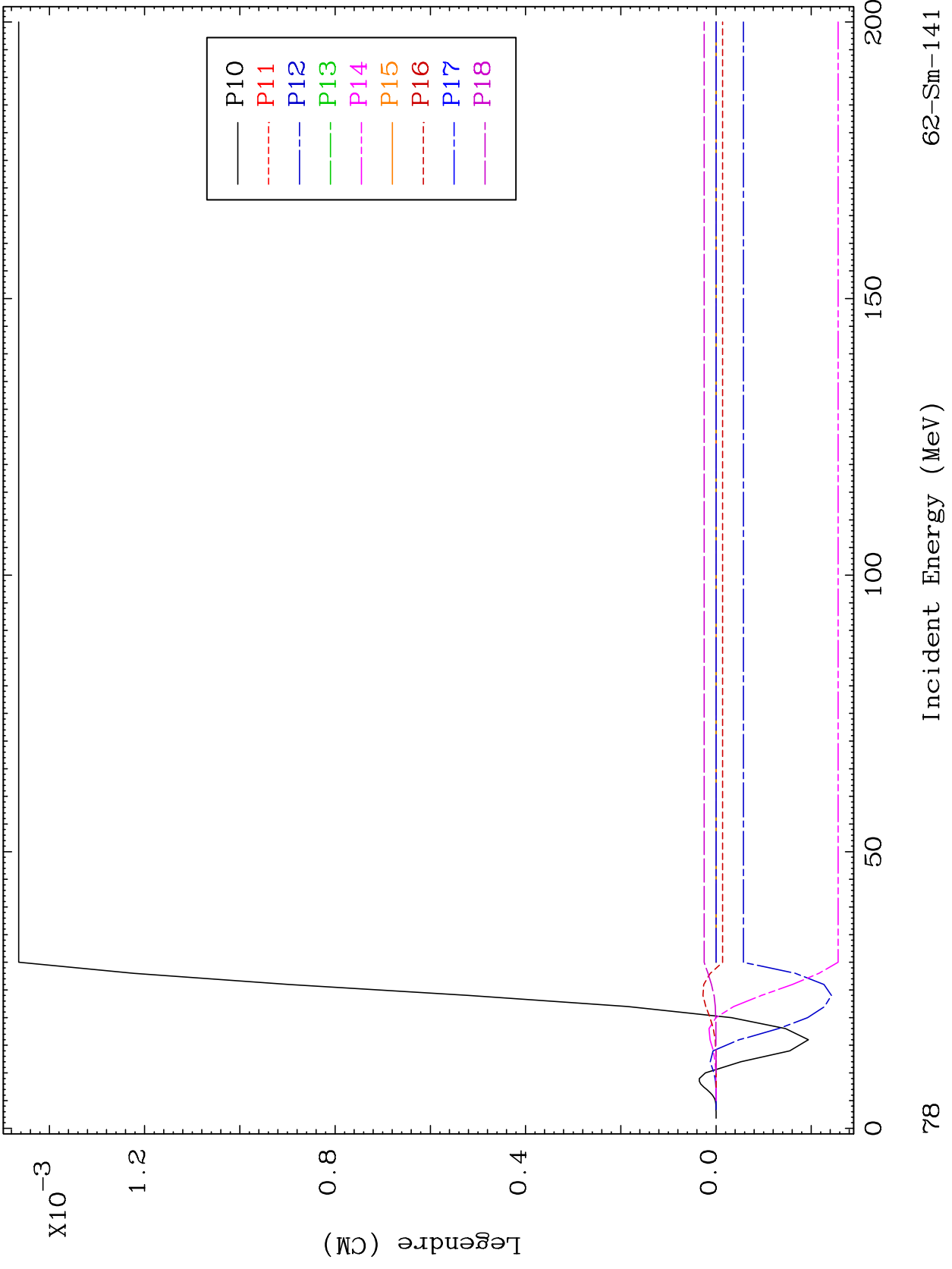
62-Sm-141



MAT 6216

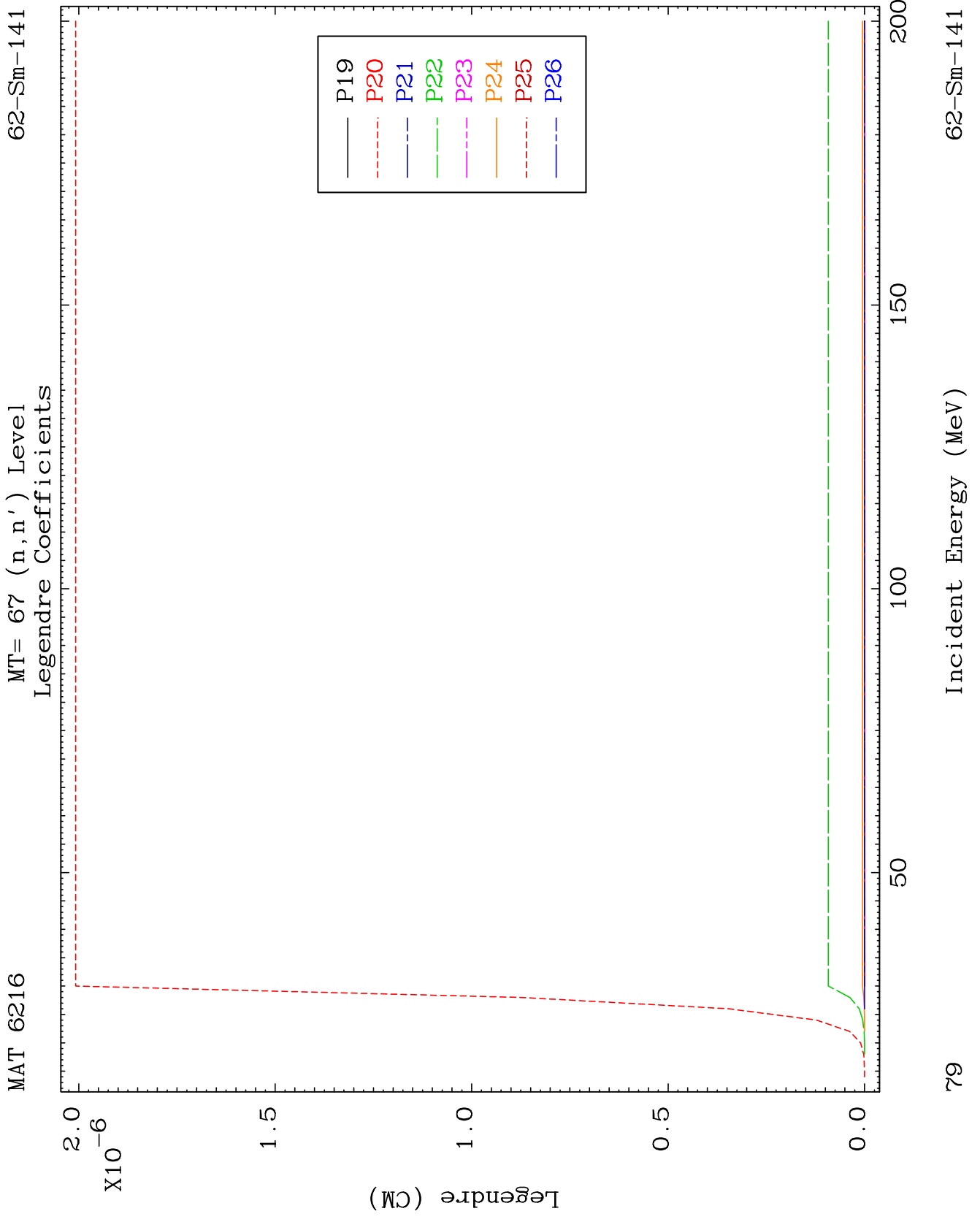
MT= 67 (n,n') Level  
Legendre Coefficients

62-Sm-141



78

62-Sm-141



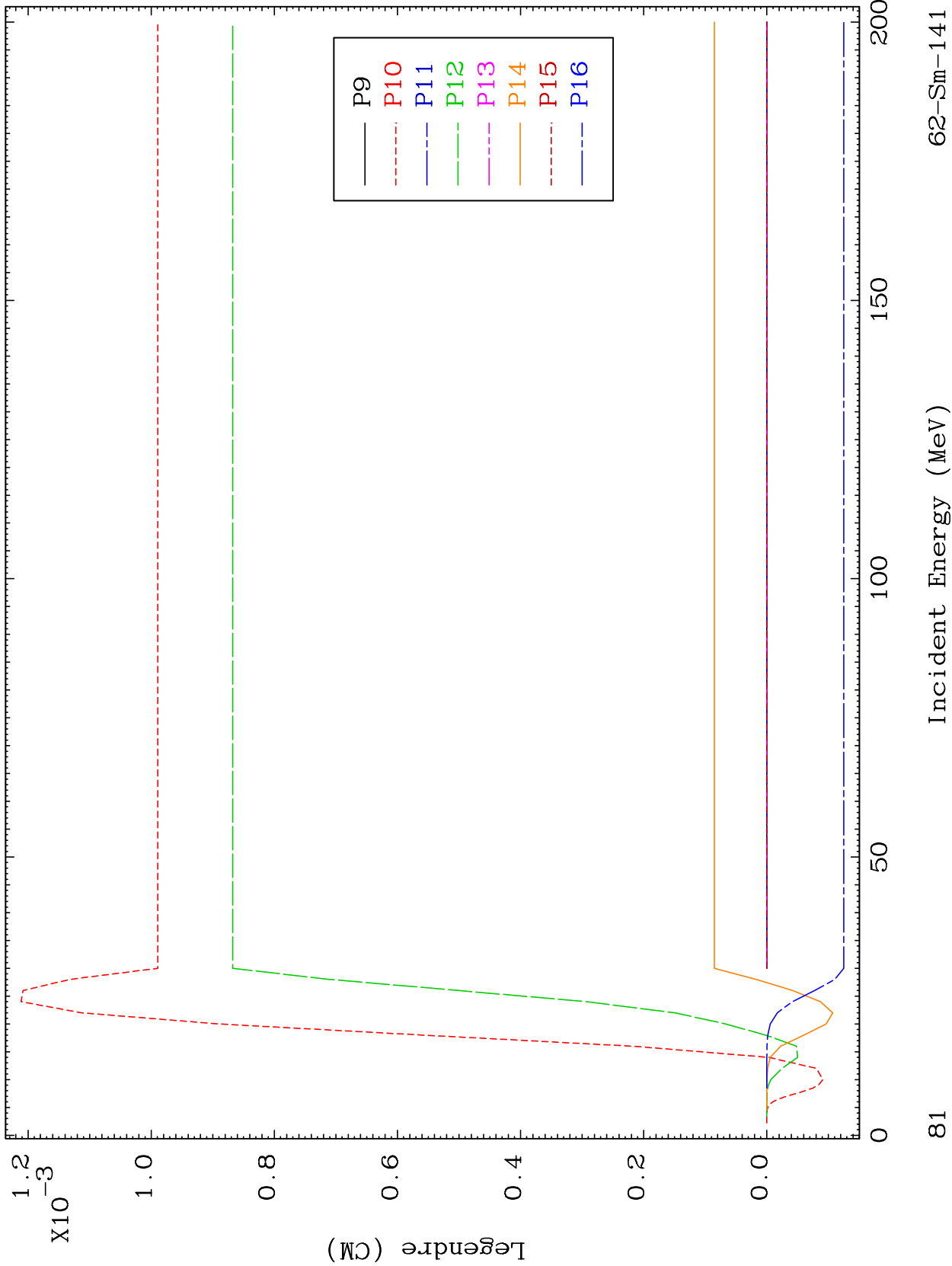




MAT 6216

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

62-Sm-141



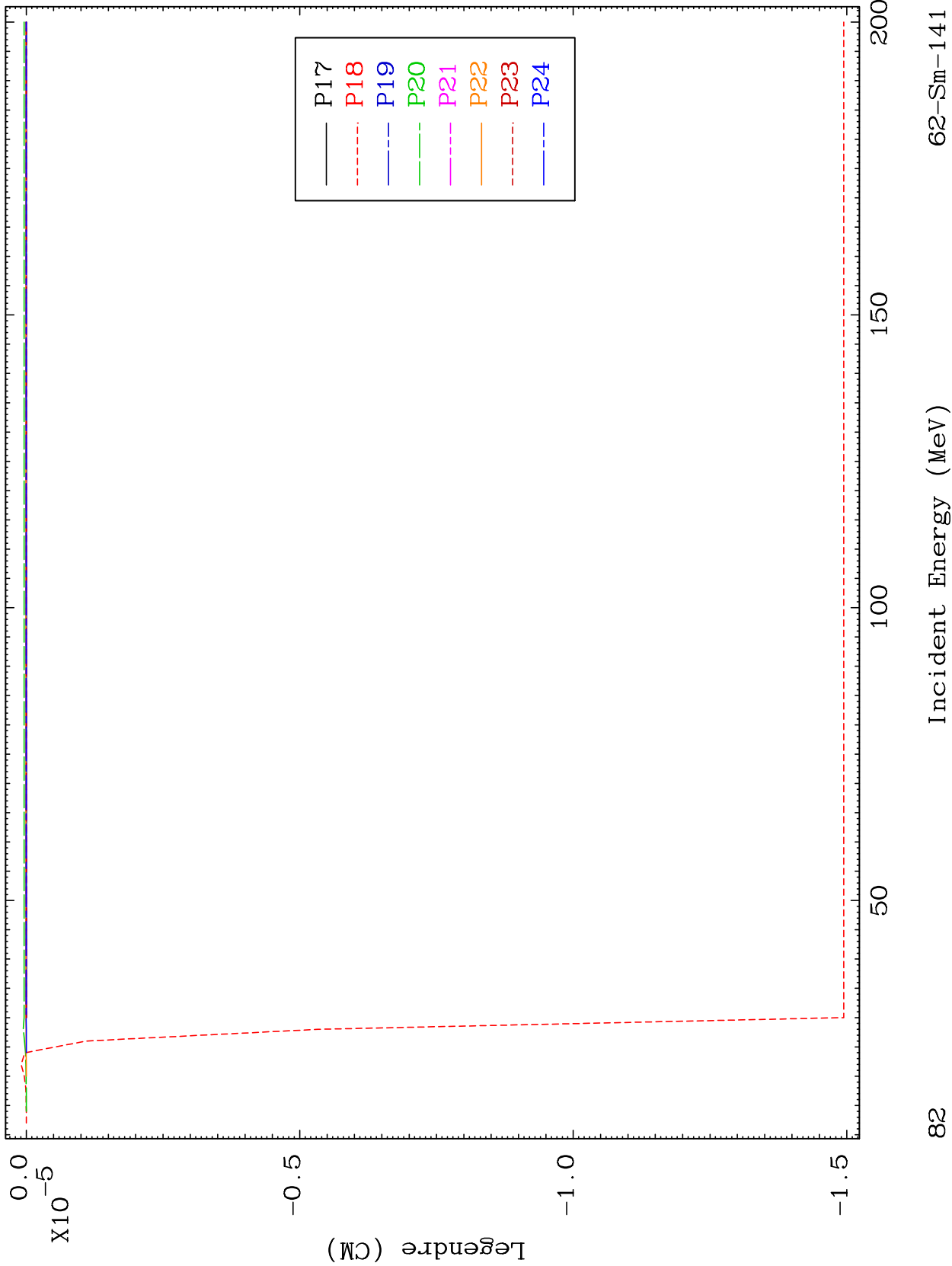
81

62-Sm-141

MAT 6216

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

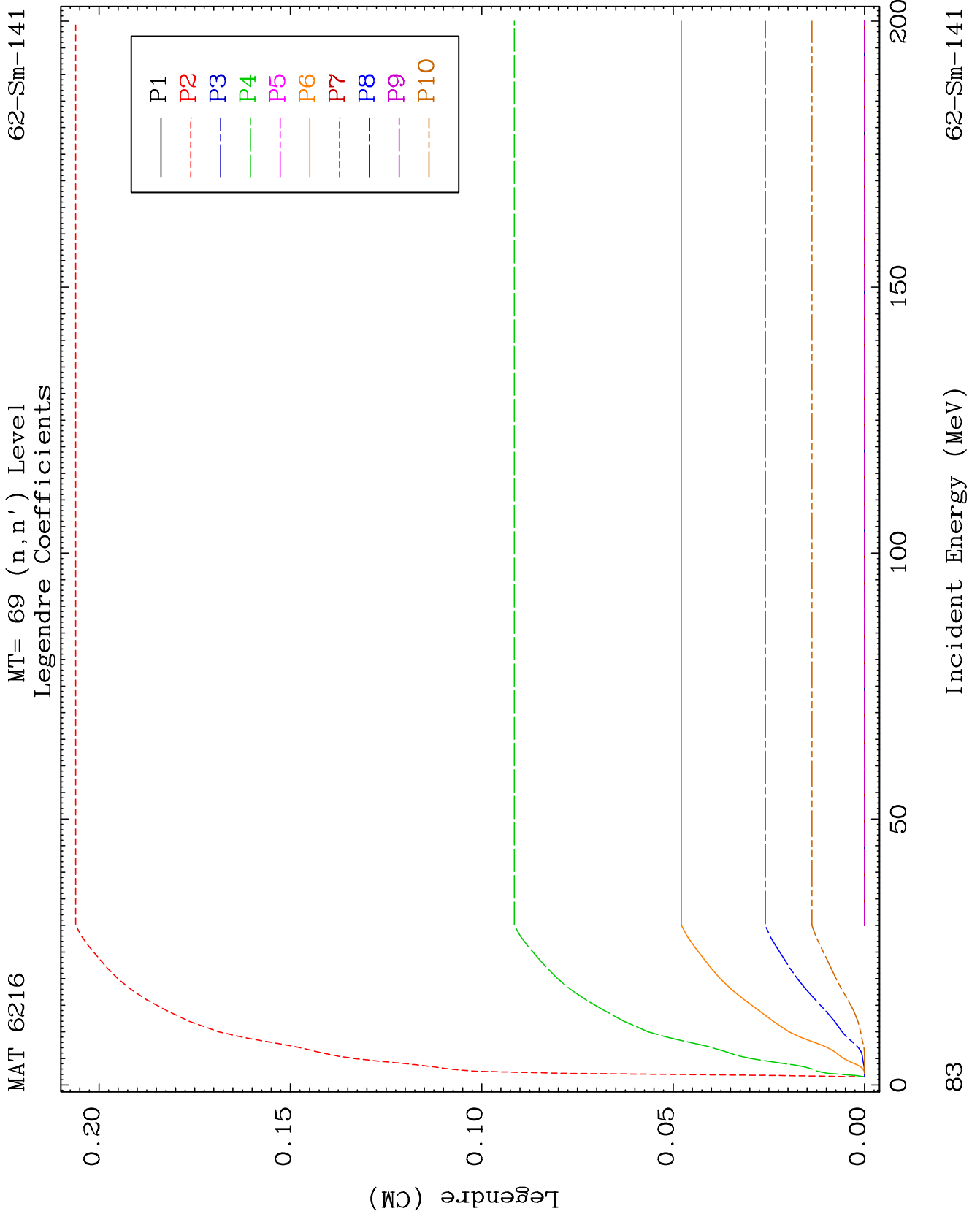
62-Sm-141

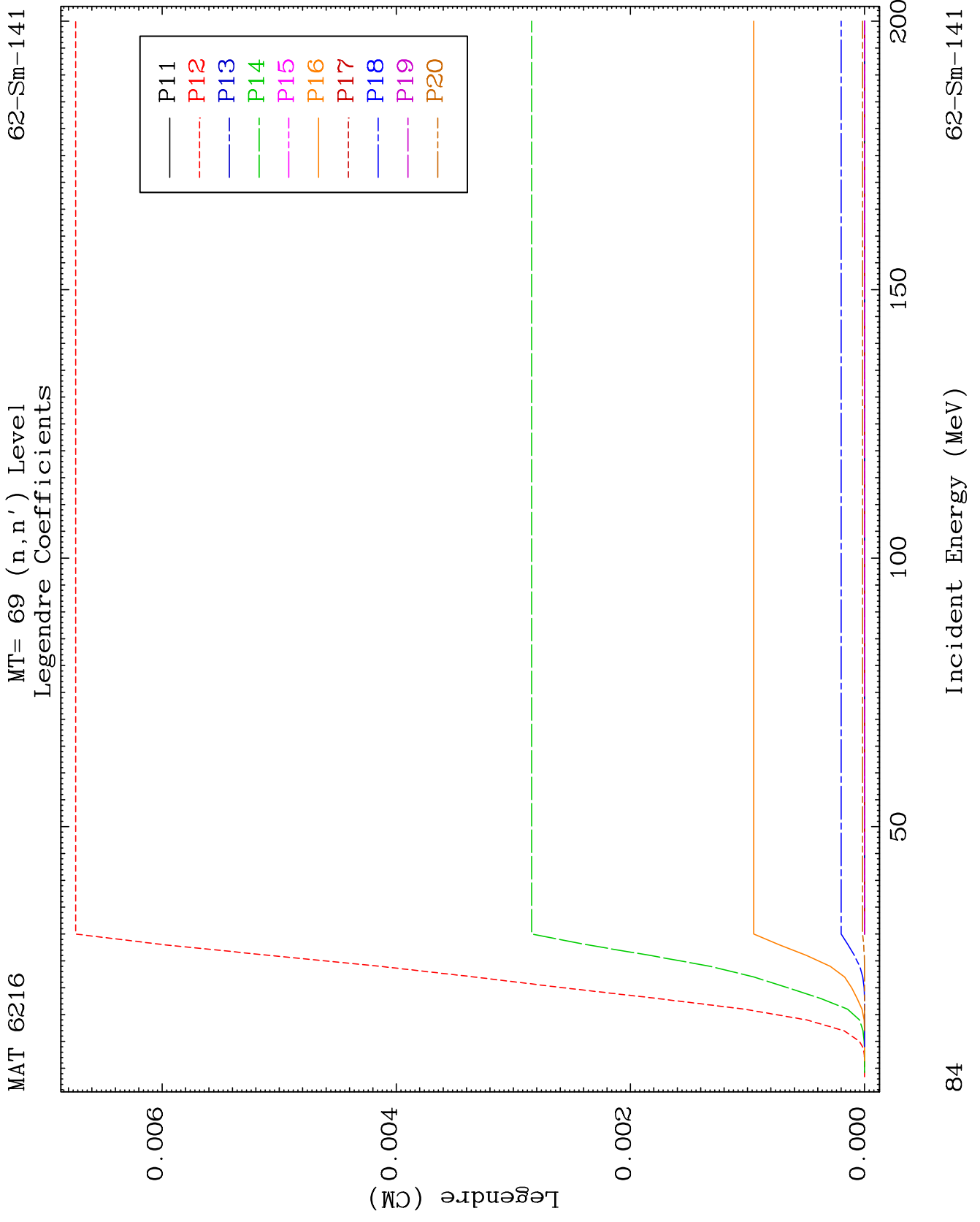


82

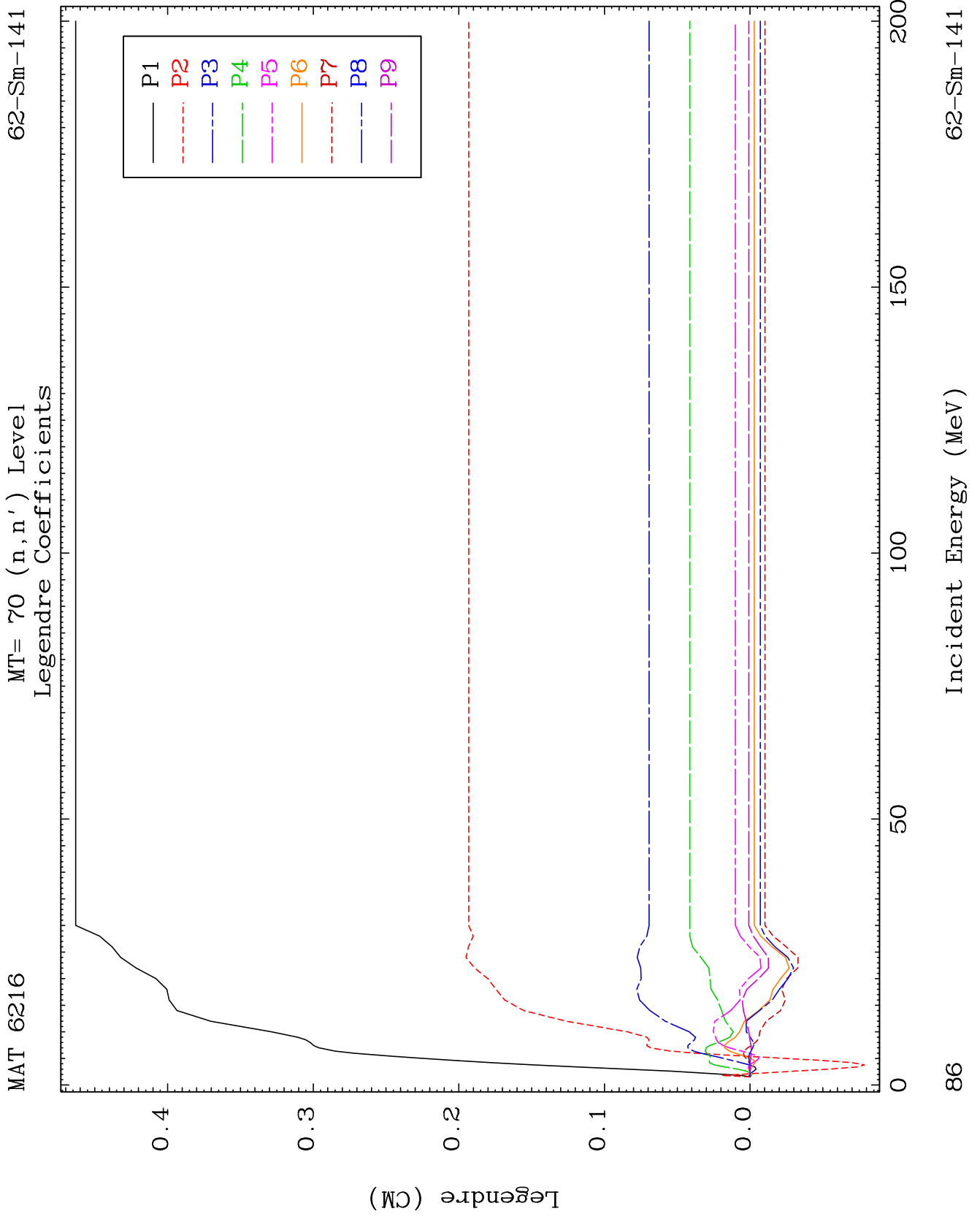
Incident Energy (MeV)

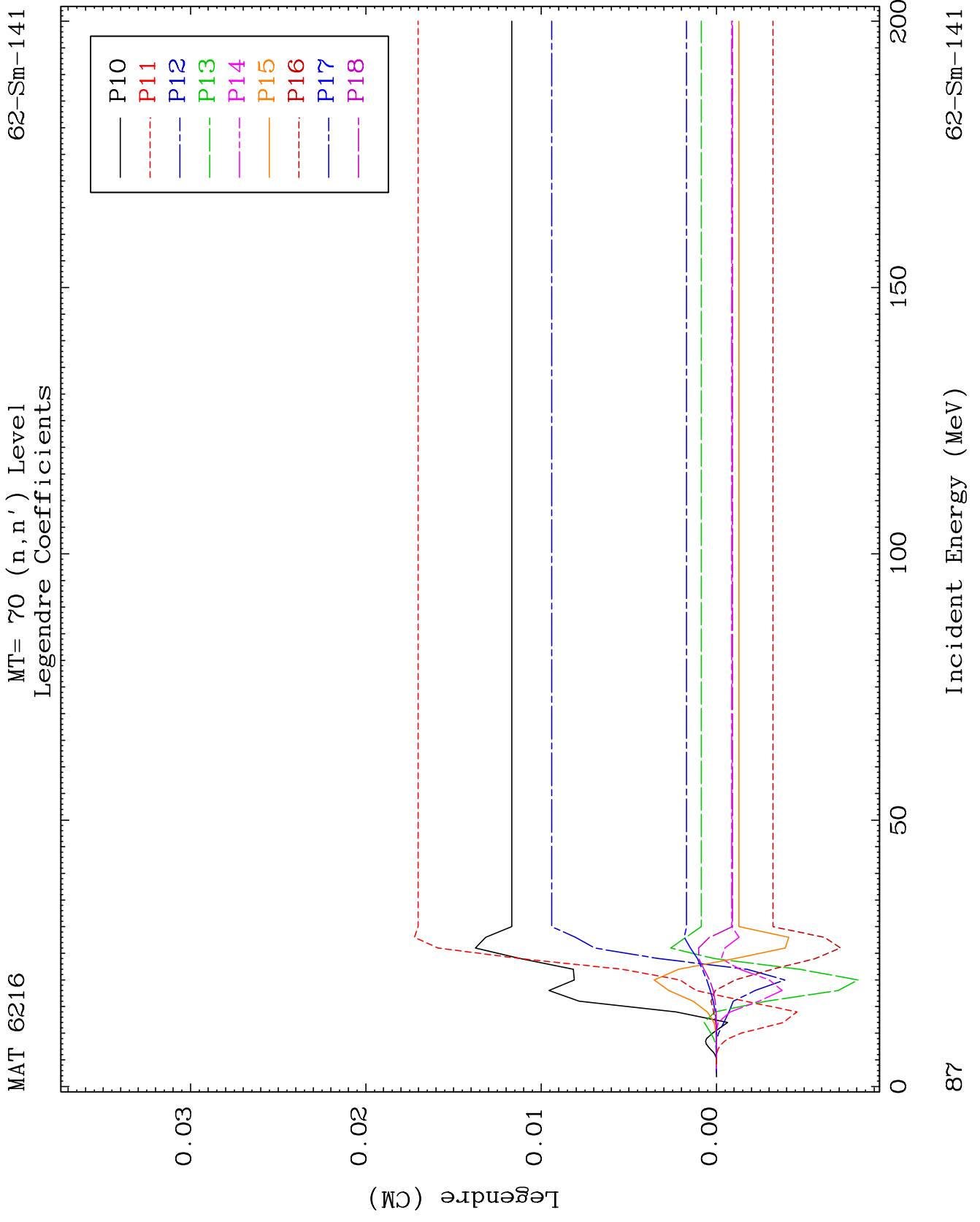
62-Sm-141



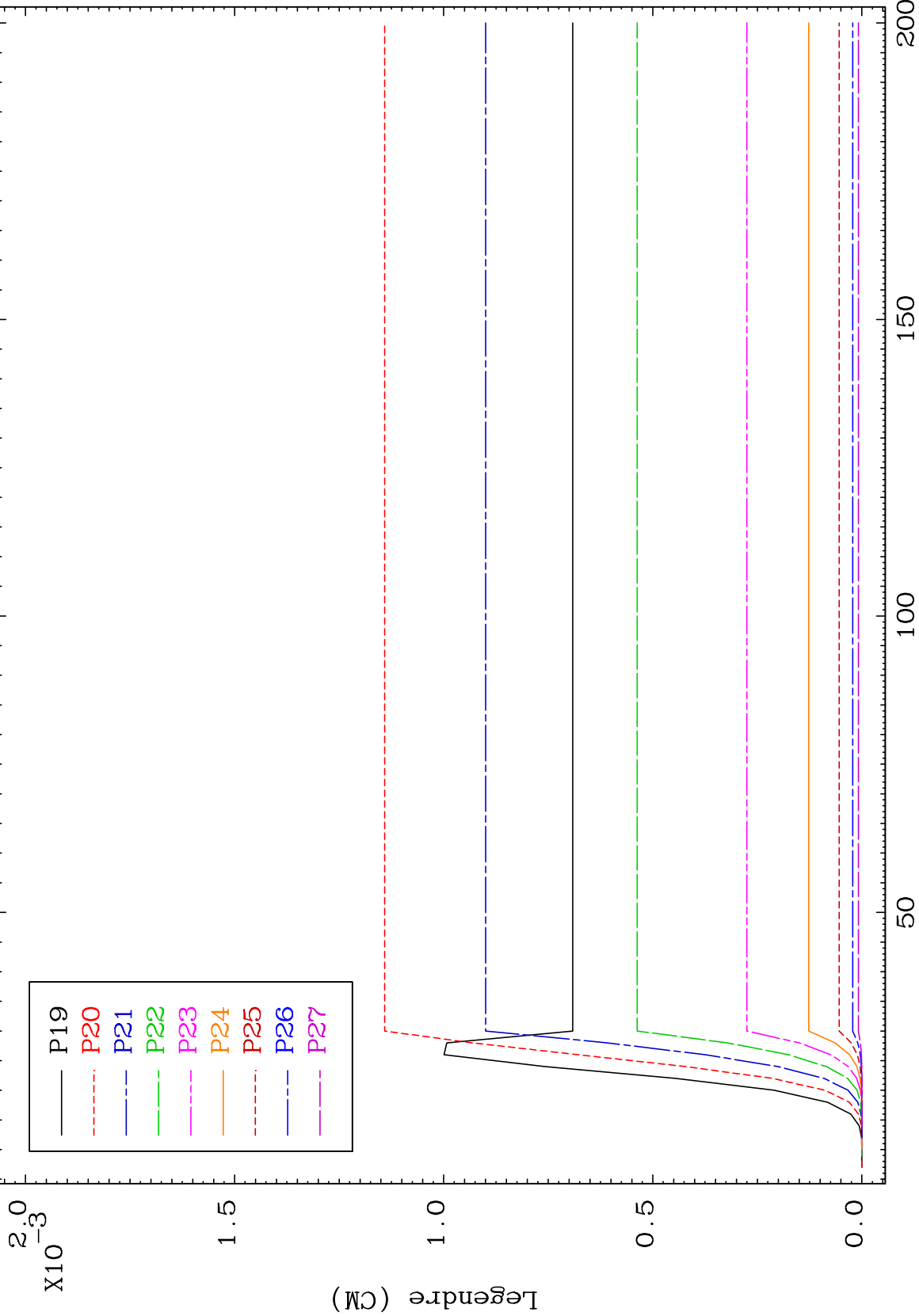








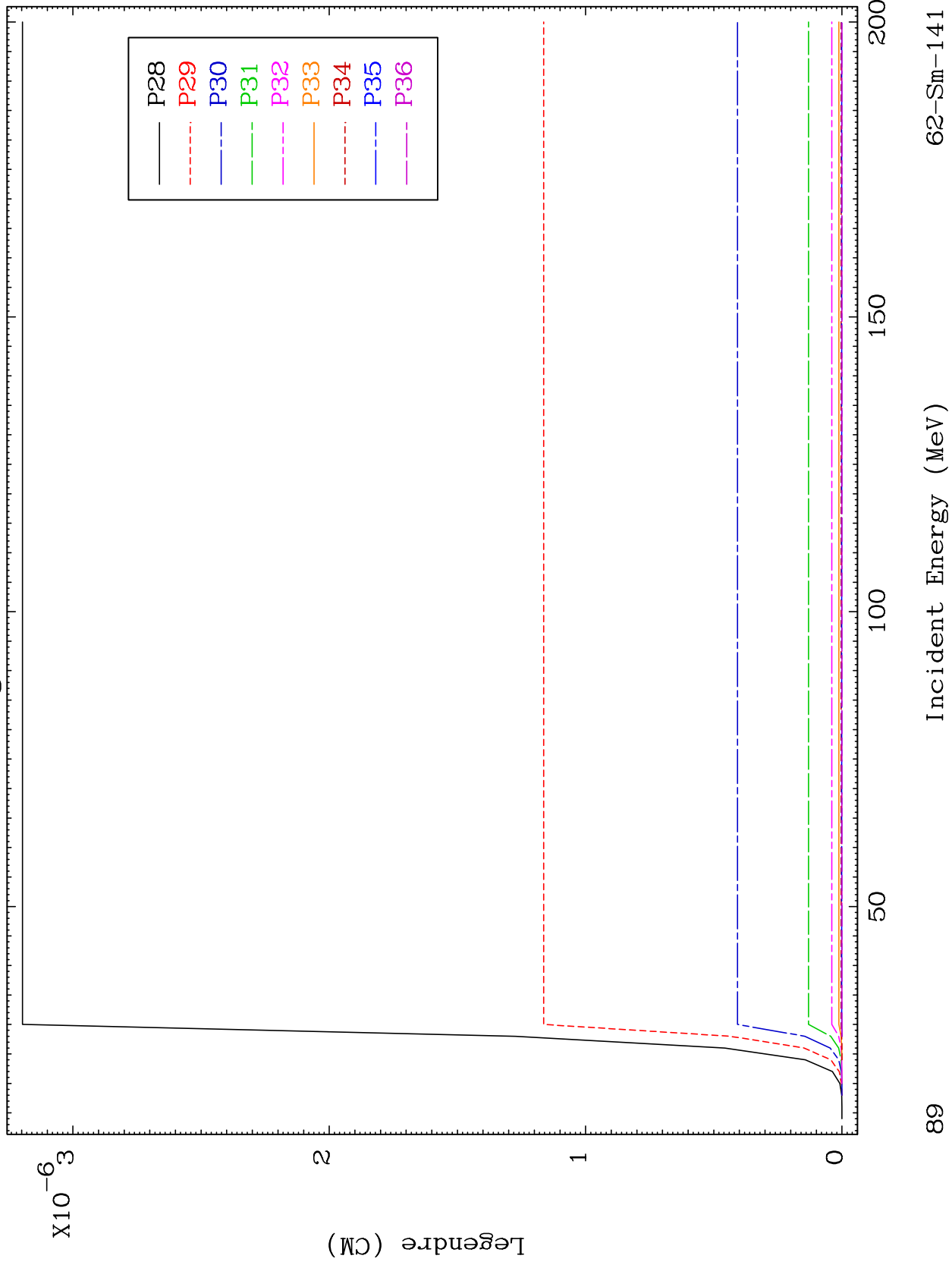




MAT 6216

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

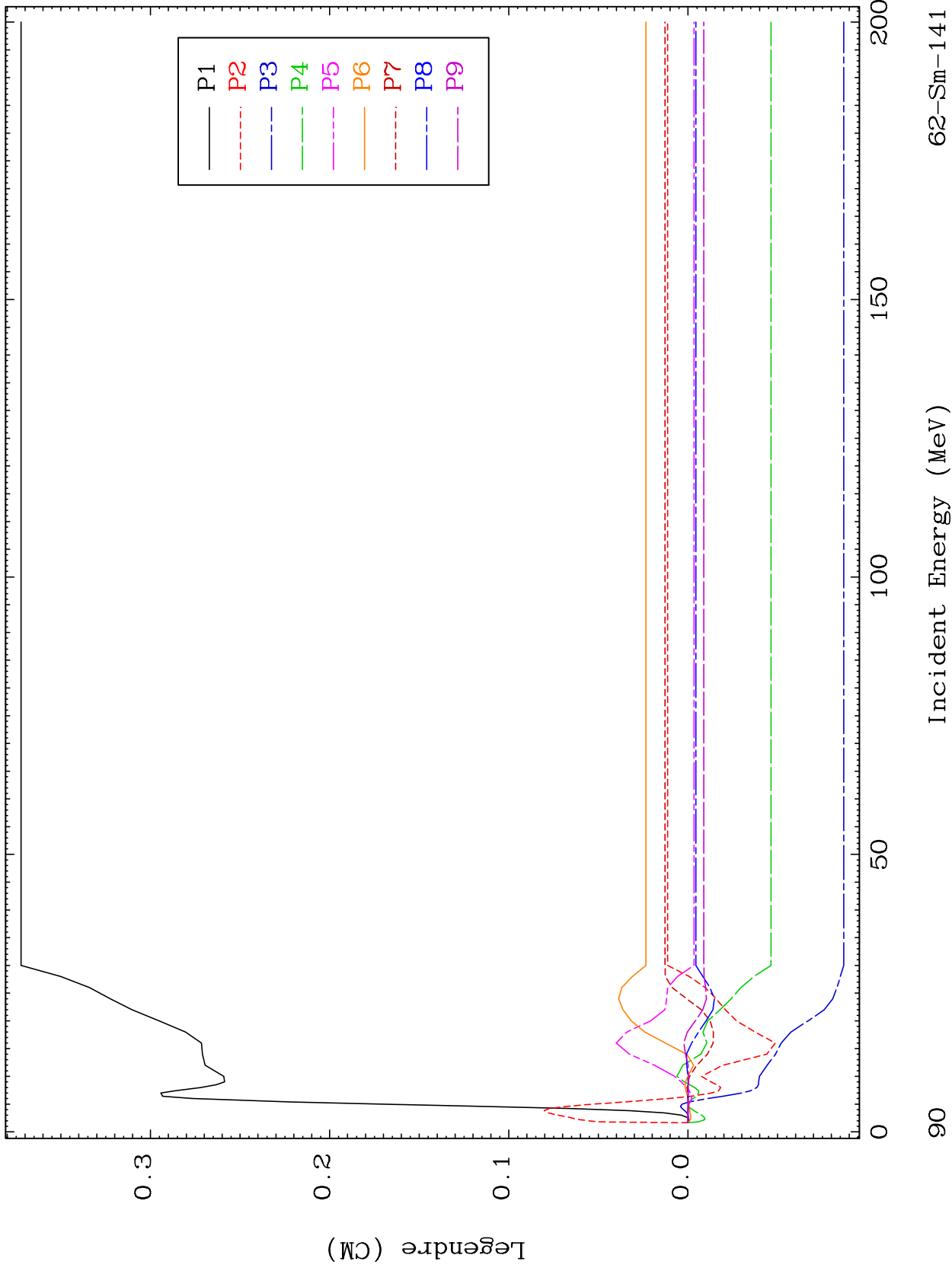
62-Sm-141



MAT 6216

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

62-Sm-141



62-Sm-141

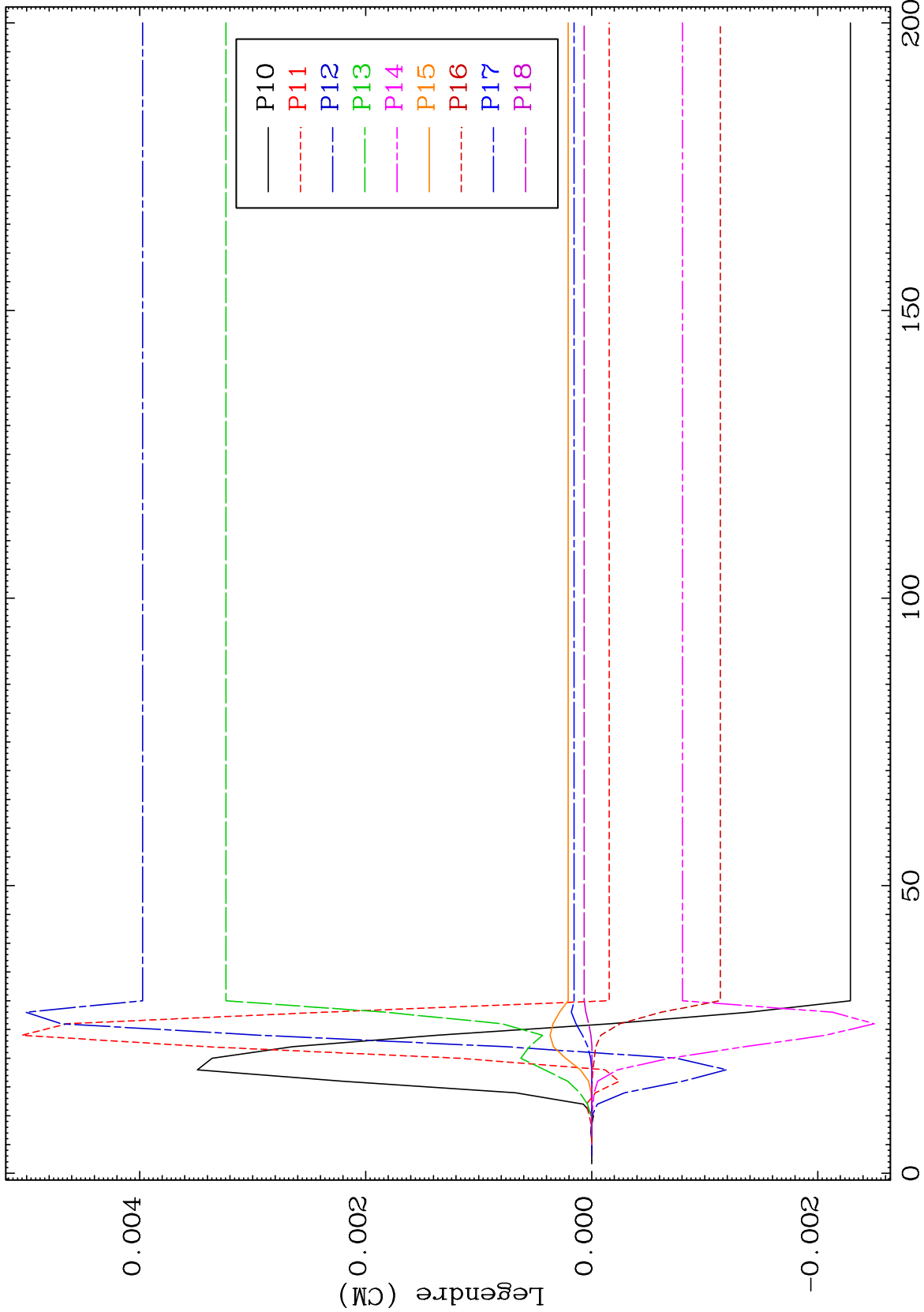
Incident Energy (MeV)

90

MAT 6216

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

62-Sm-141



91

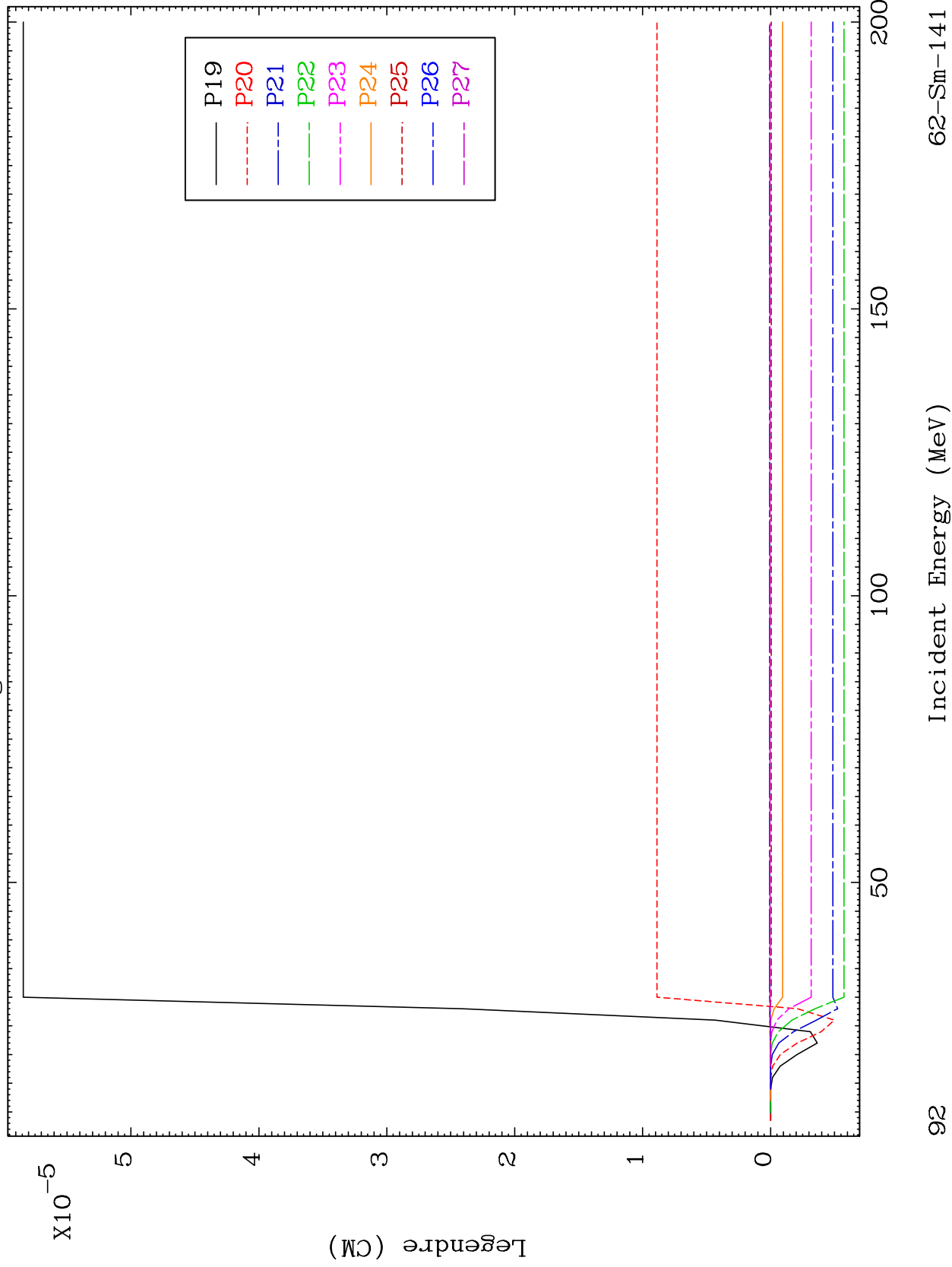
Incident Energy (MeV)

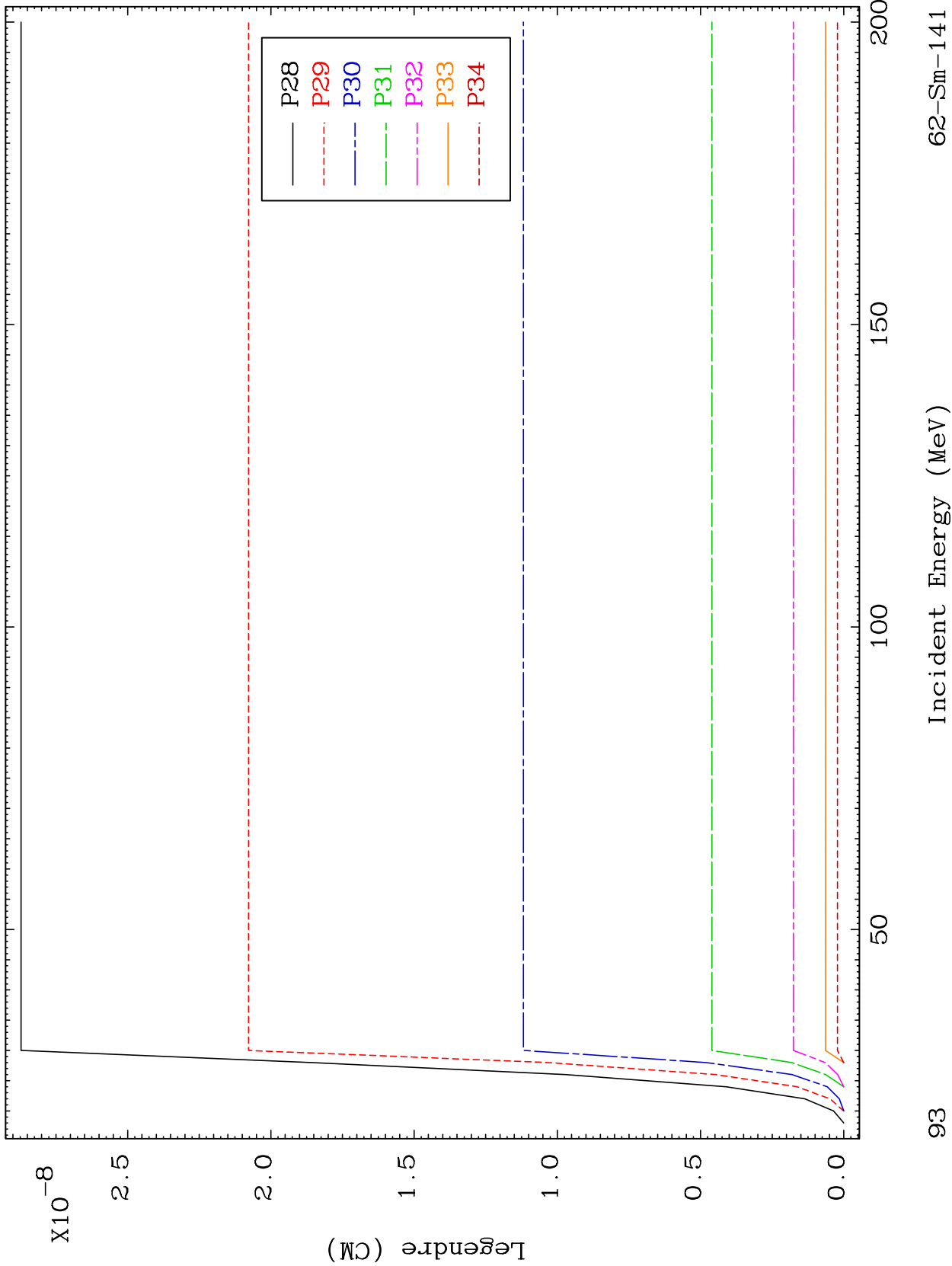
62-Sm-141

MAT 6216

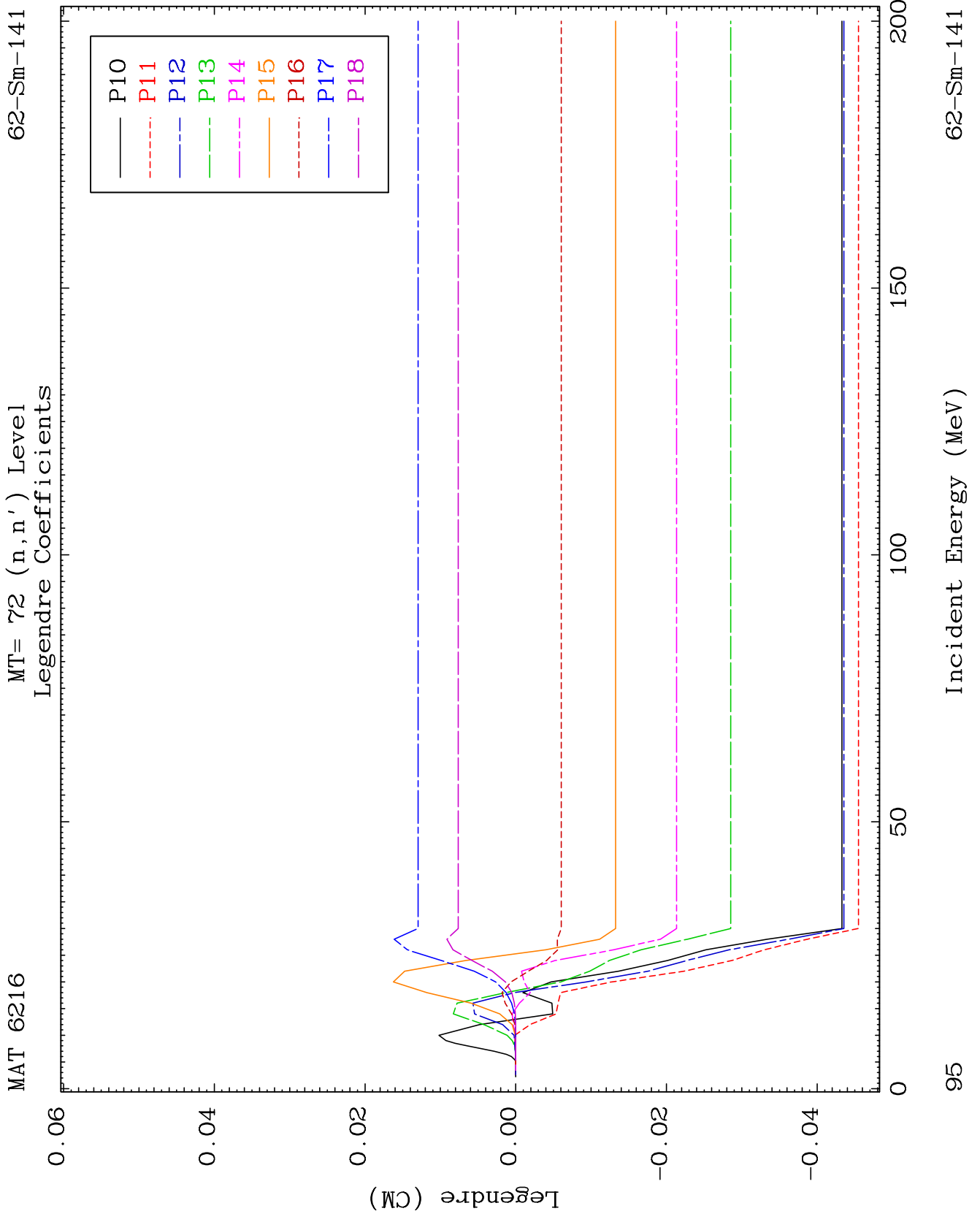
MT= 71 (n,n') Level  
Legendre Coefficients

62-Sm-141

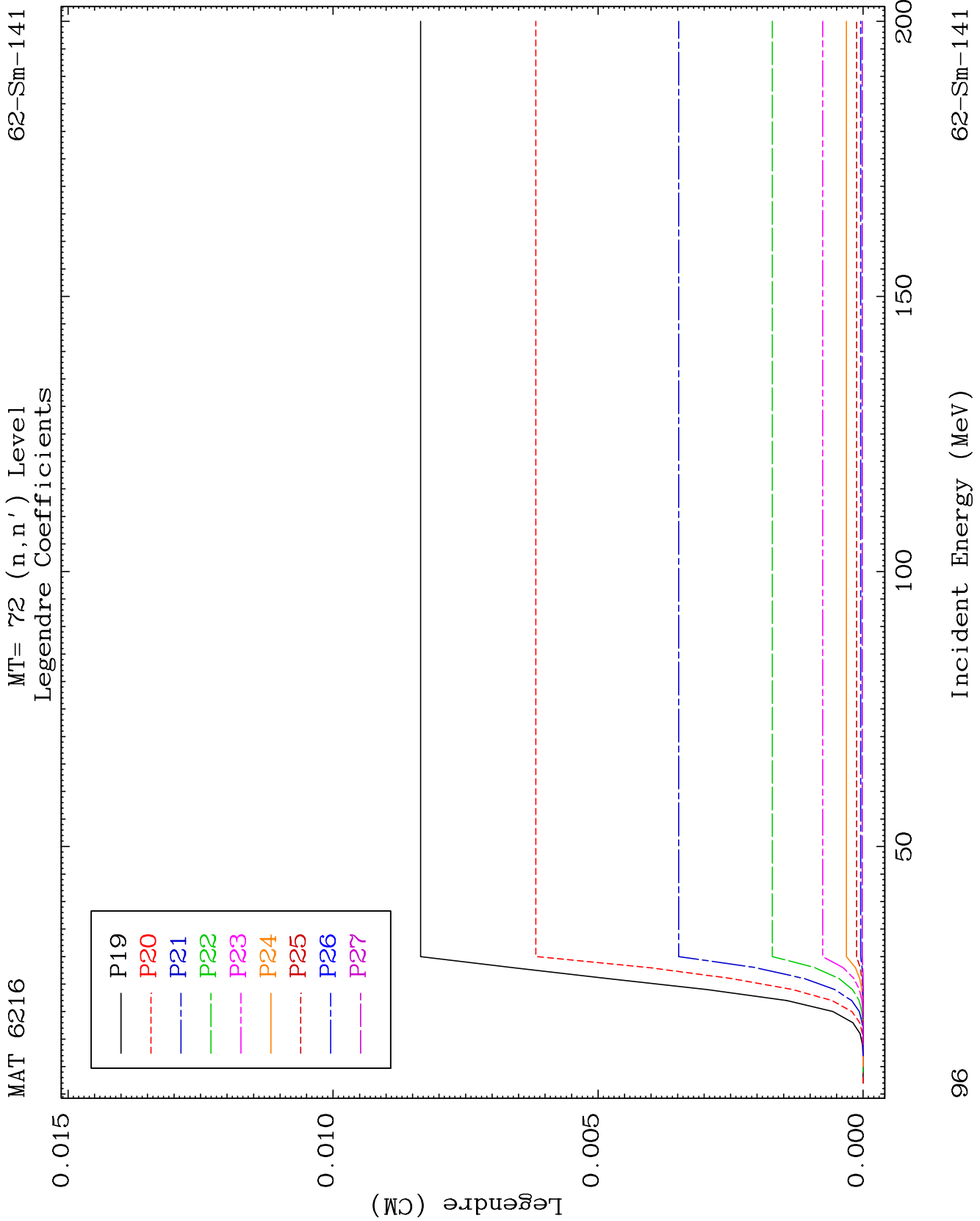








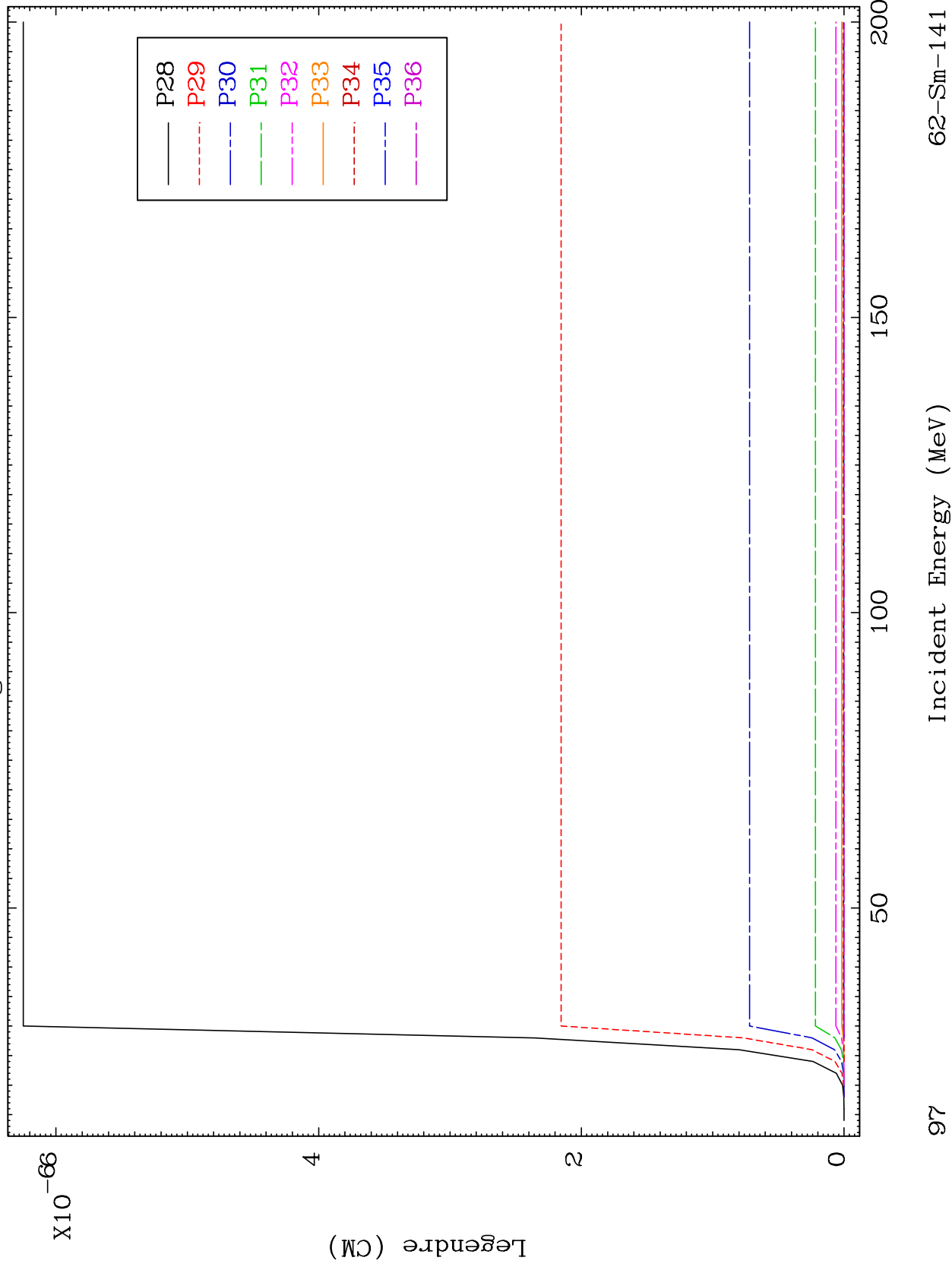




MAT 6216

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

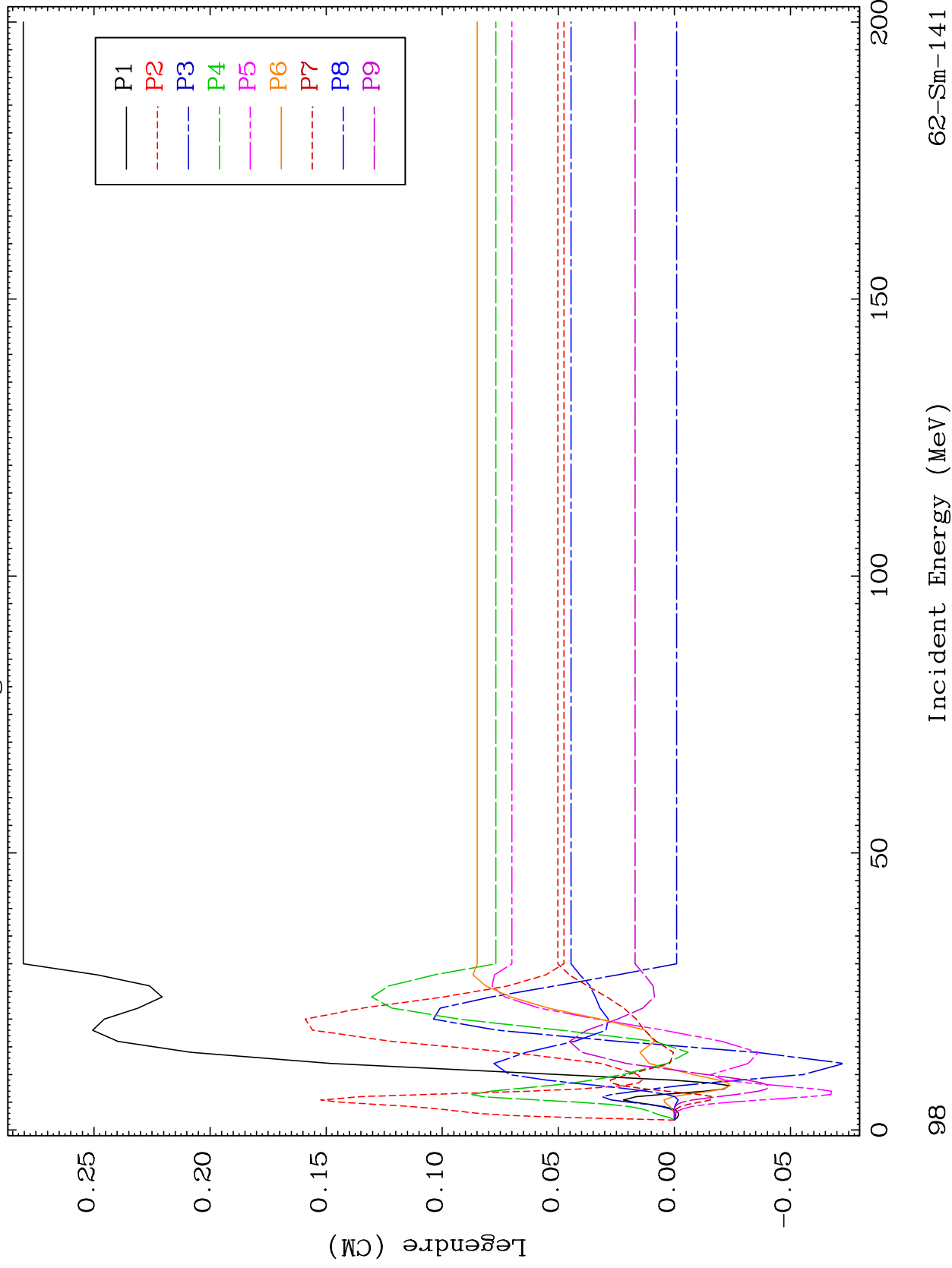
62-Sm-141



MAT 6216

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

62-Sm-141



62-Sm-141

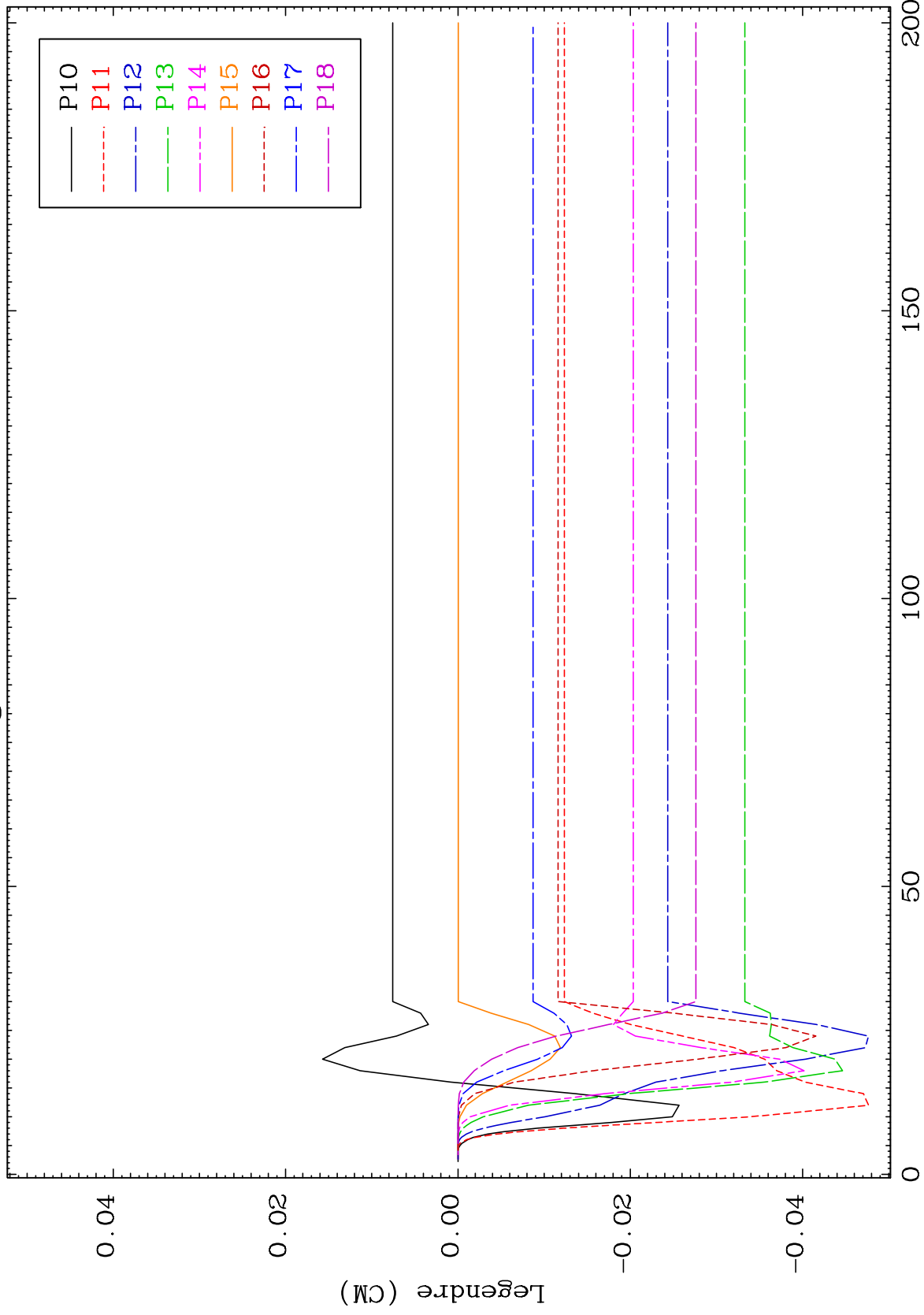
Incident Energy (MeV)

98

MAT 6216

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

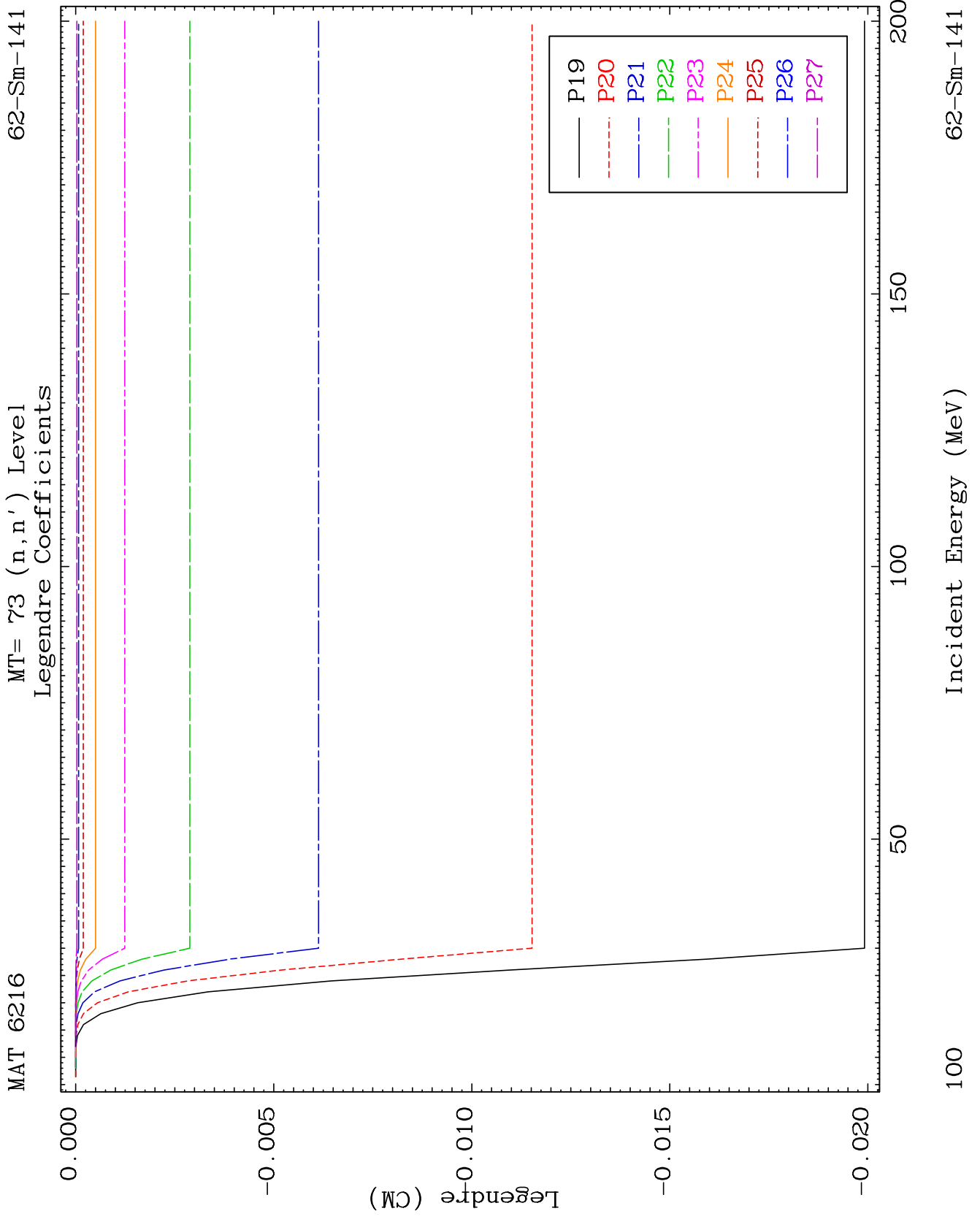
62-Sm-141

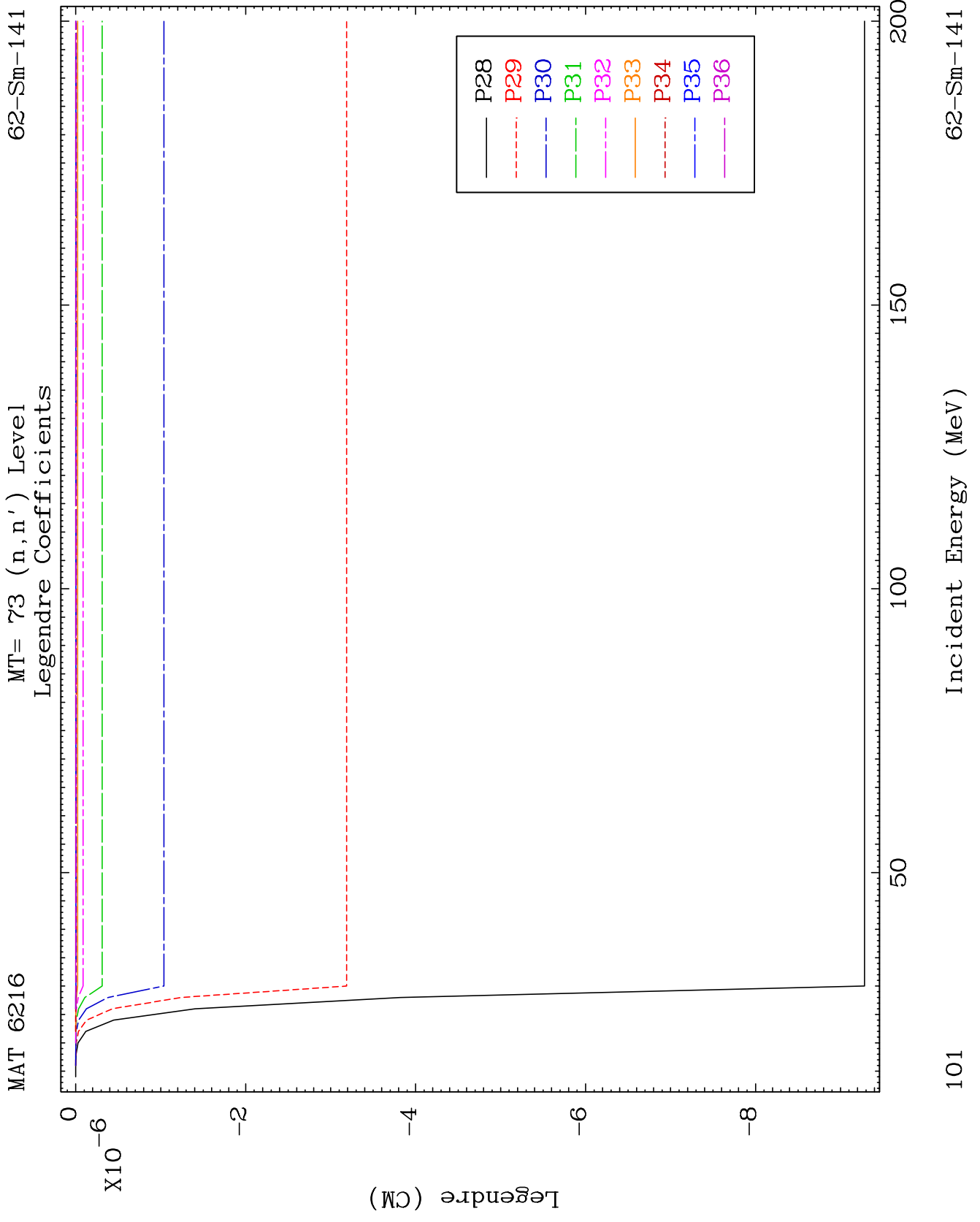


99

Incident Energy (MeV)

62-Sm-141

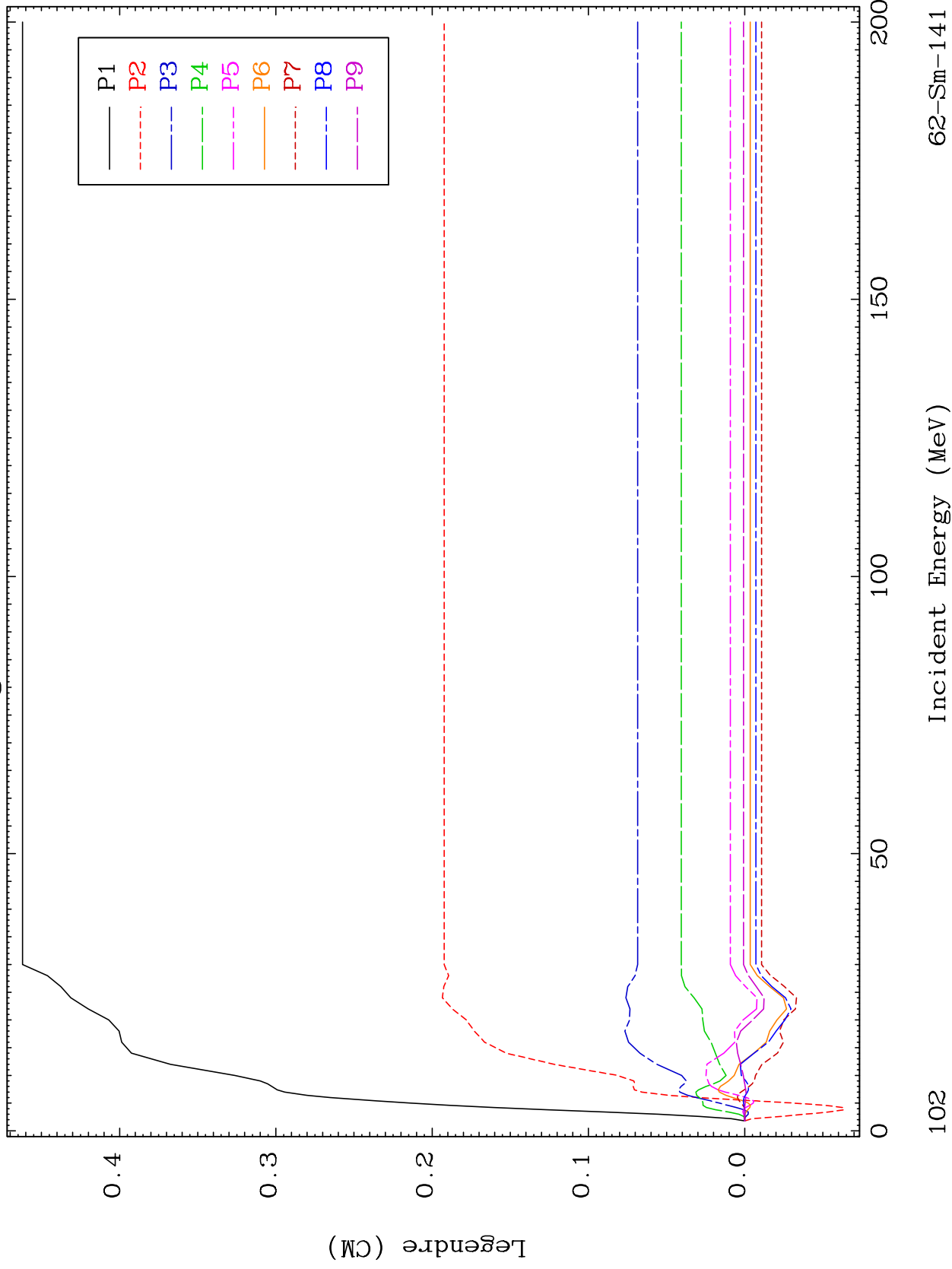




MAT 6216

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

62-Sm-141



62-Sm-141

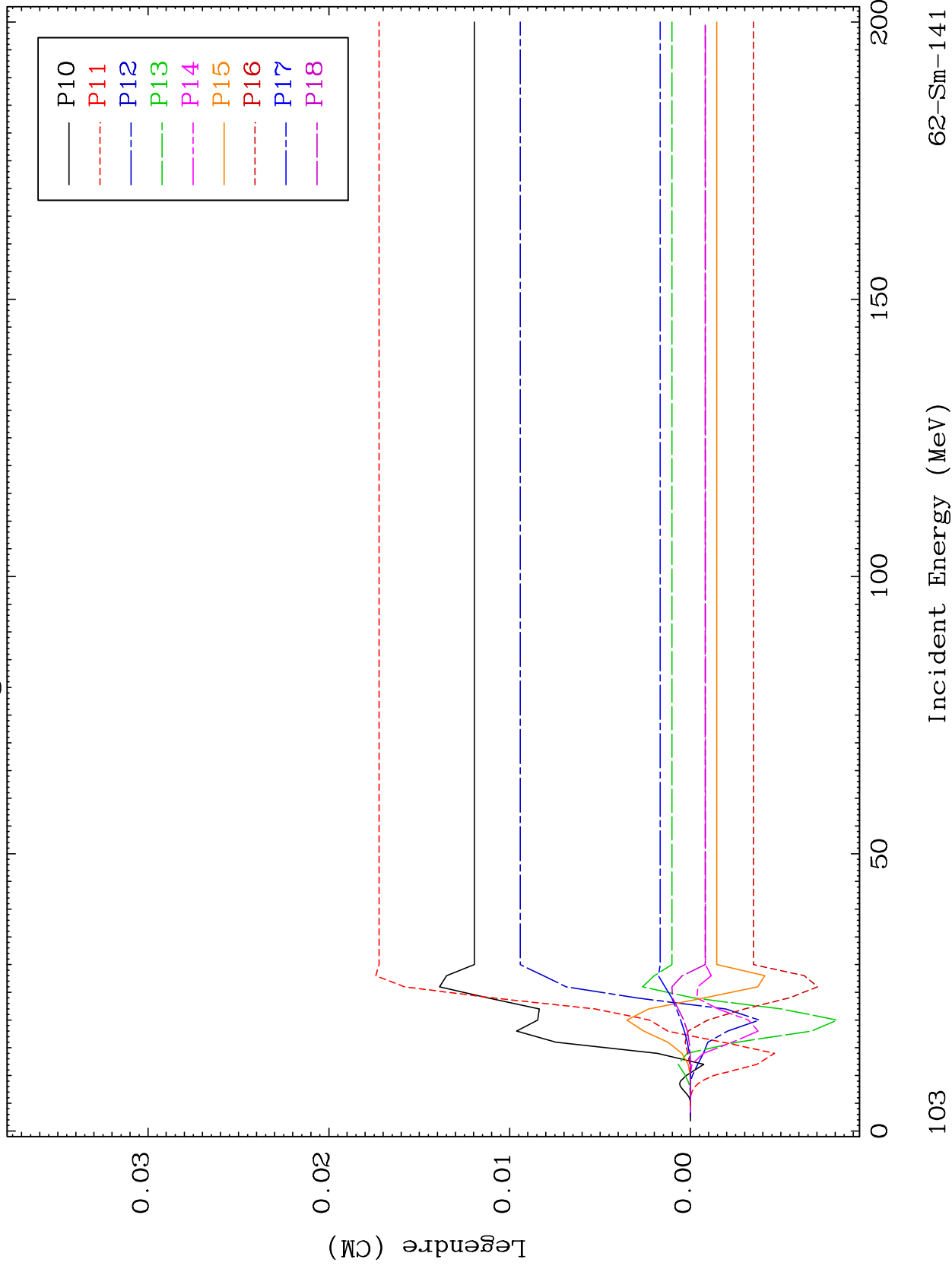
Incident Energy (MeV)

102

MAT 6216

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

62-Sm-141

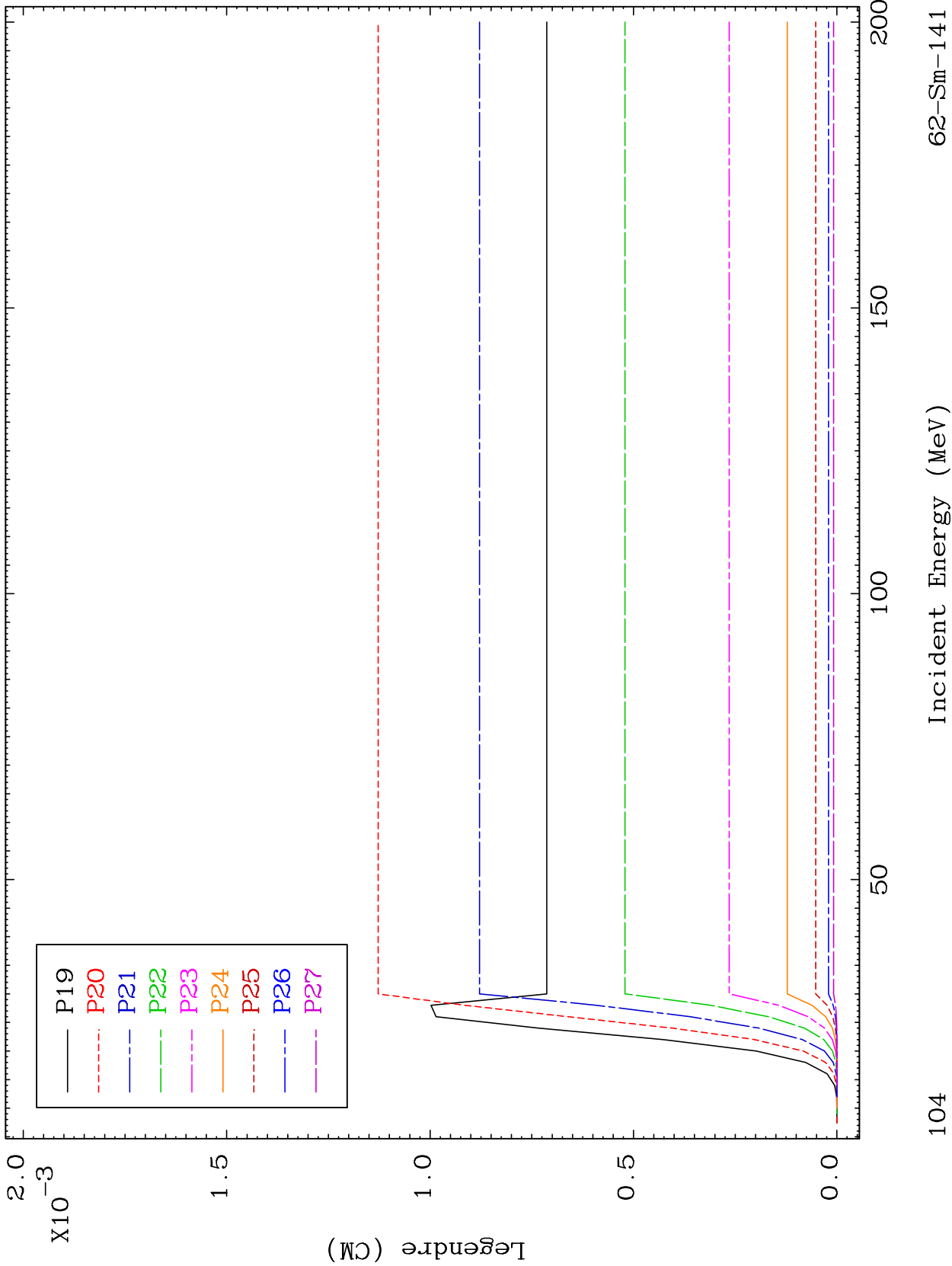


62-Sm-141

Incident Energy (MeV)

103

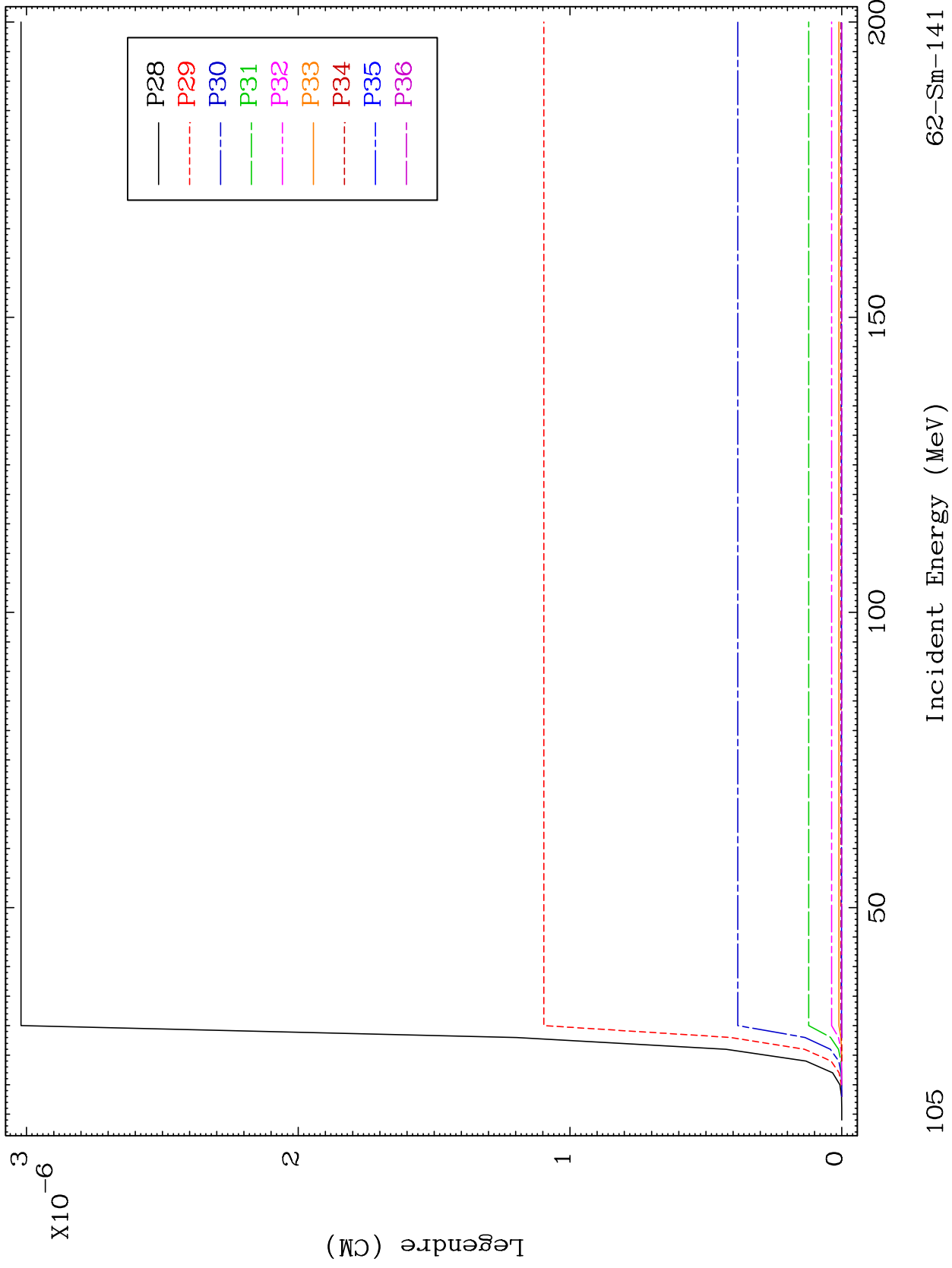




MAT 6216

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

62-Sm-141

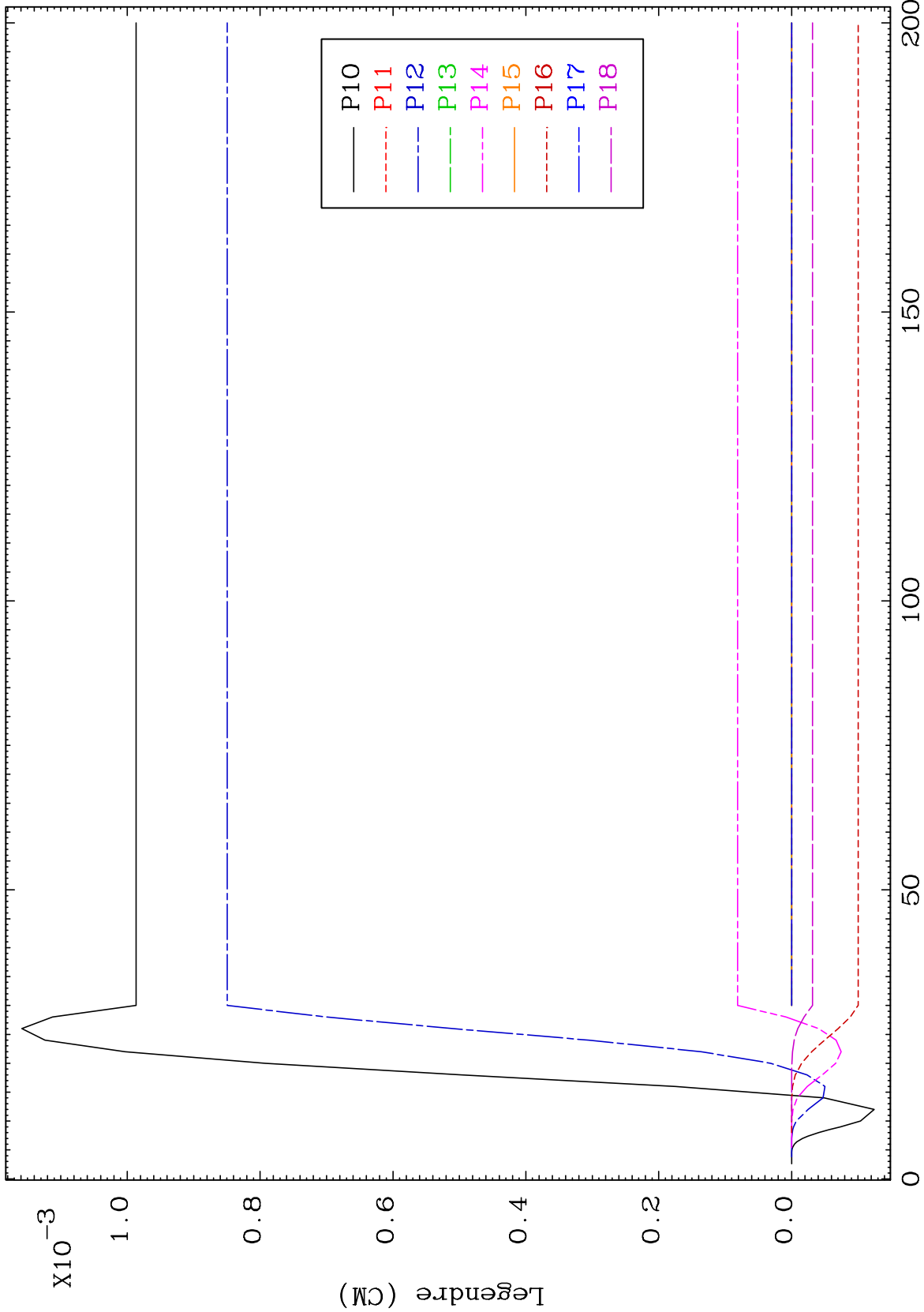




MAT 6216

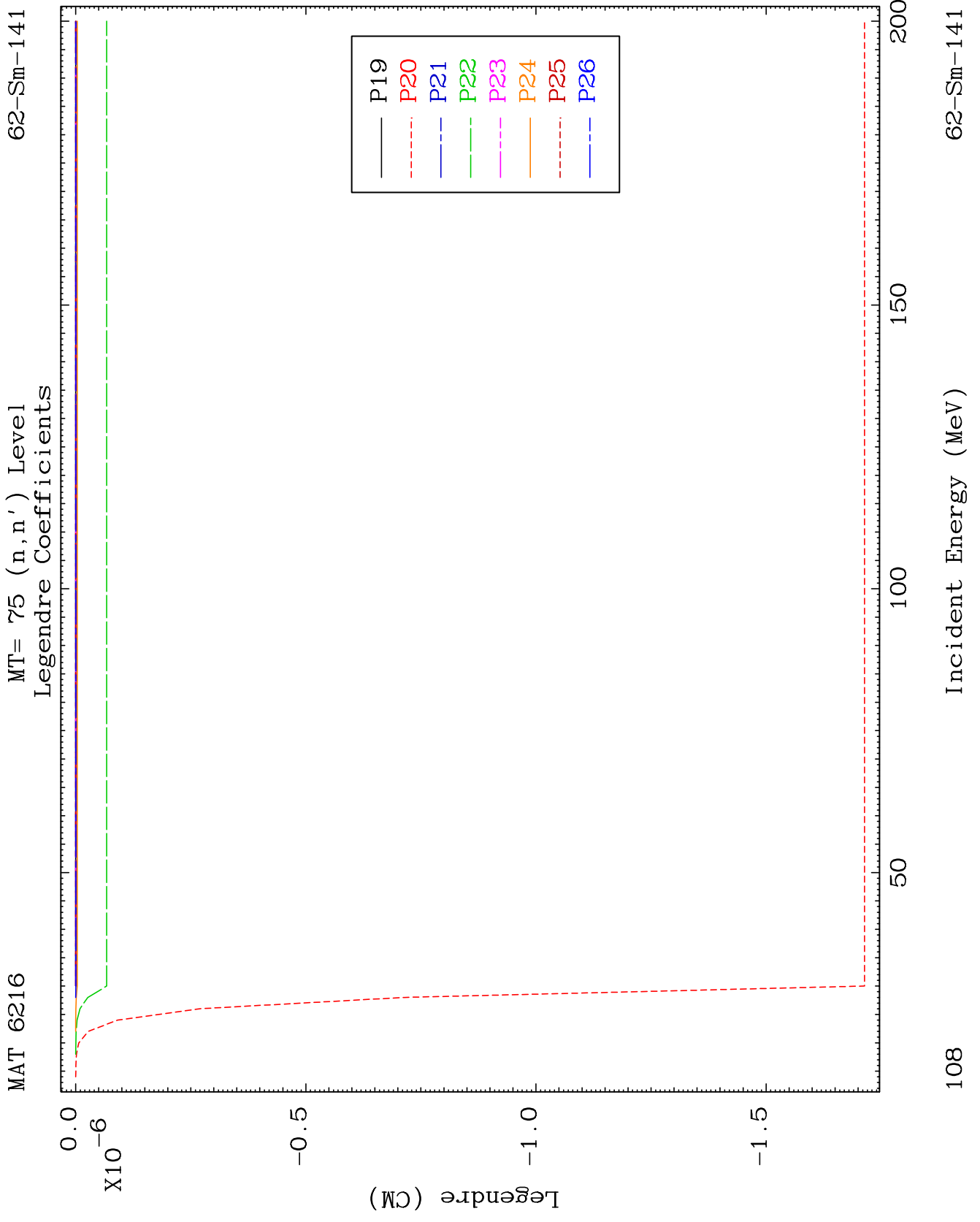
MT= 75 (n,n') Level  
Legendre Coefficients

62-Sm-141



107

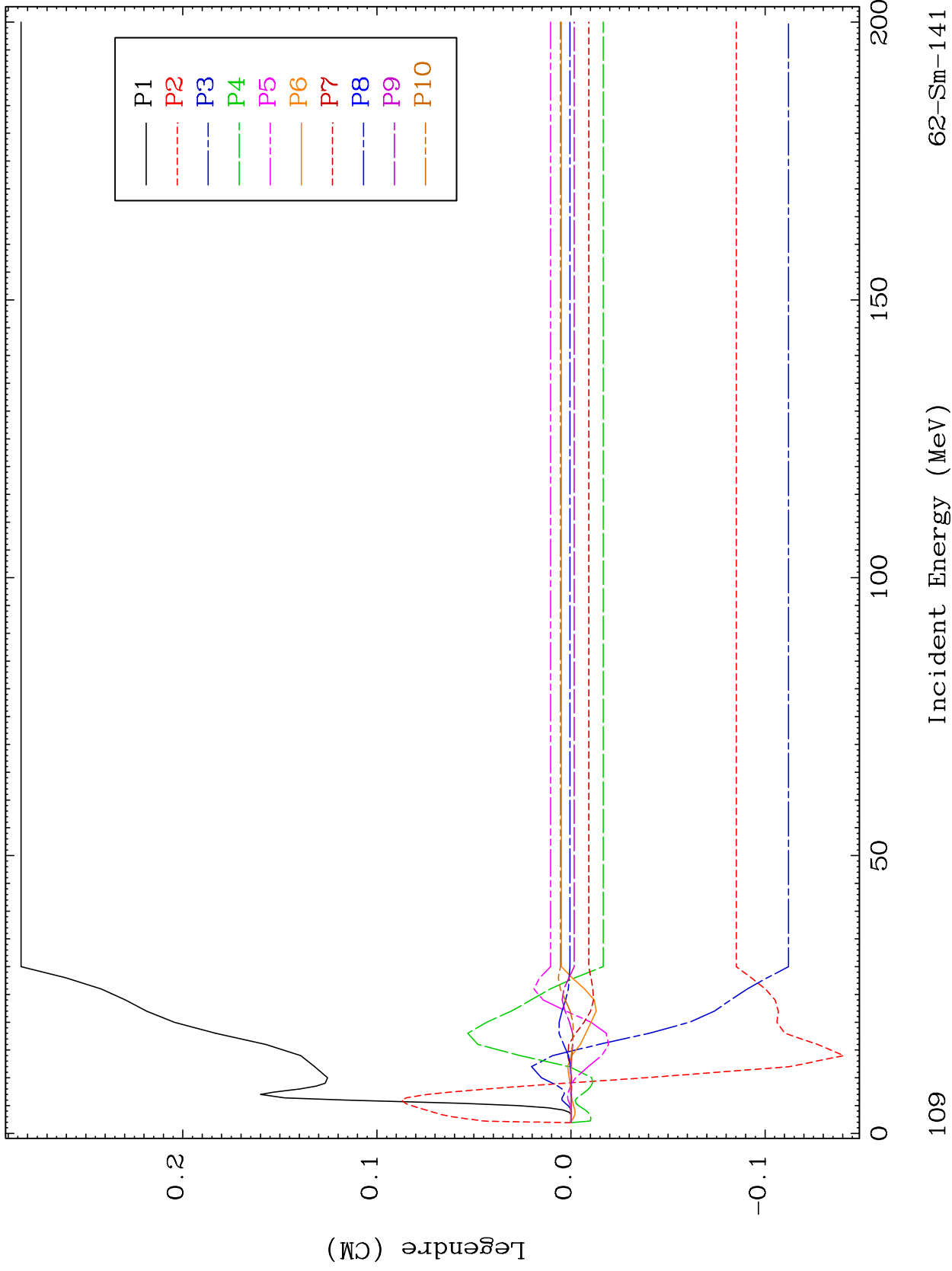
62-Sm-141



MAT 6216

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

62-Sm-141



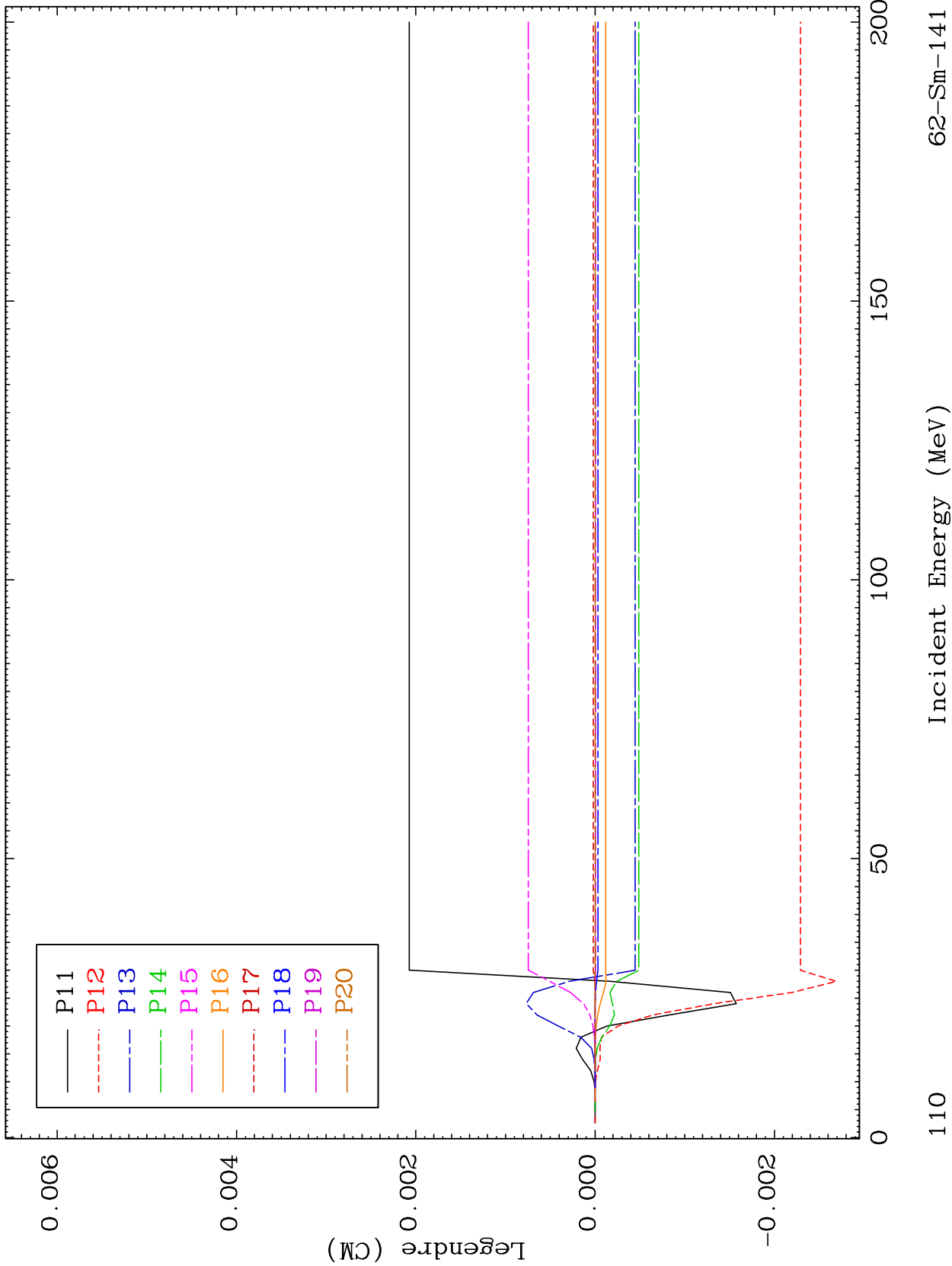
109

62-Sm-141

MAT 6216

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

62-Sm-141



62-Sm-141

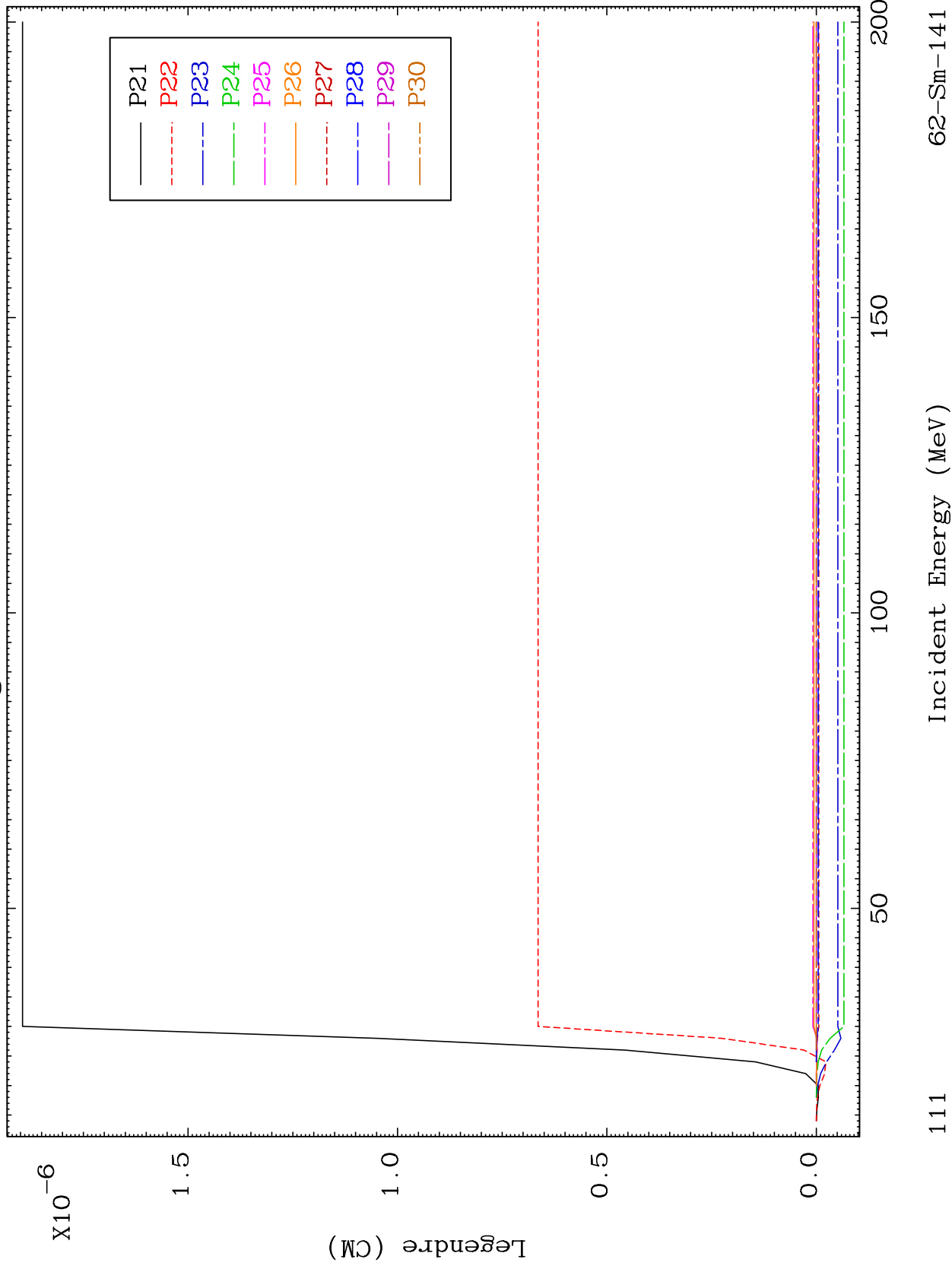
Incident Energy (MeV)

110

MAT 6216

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

62-Sm-141

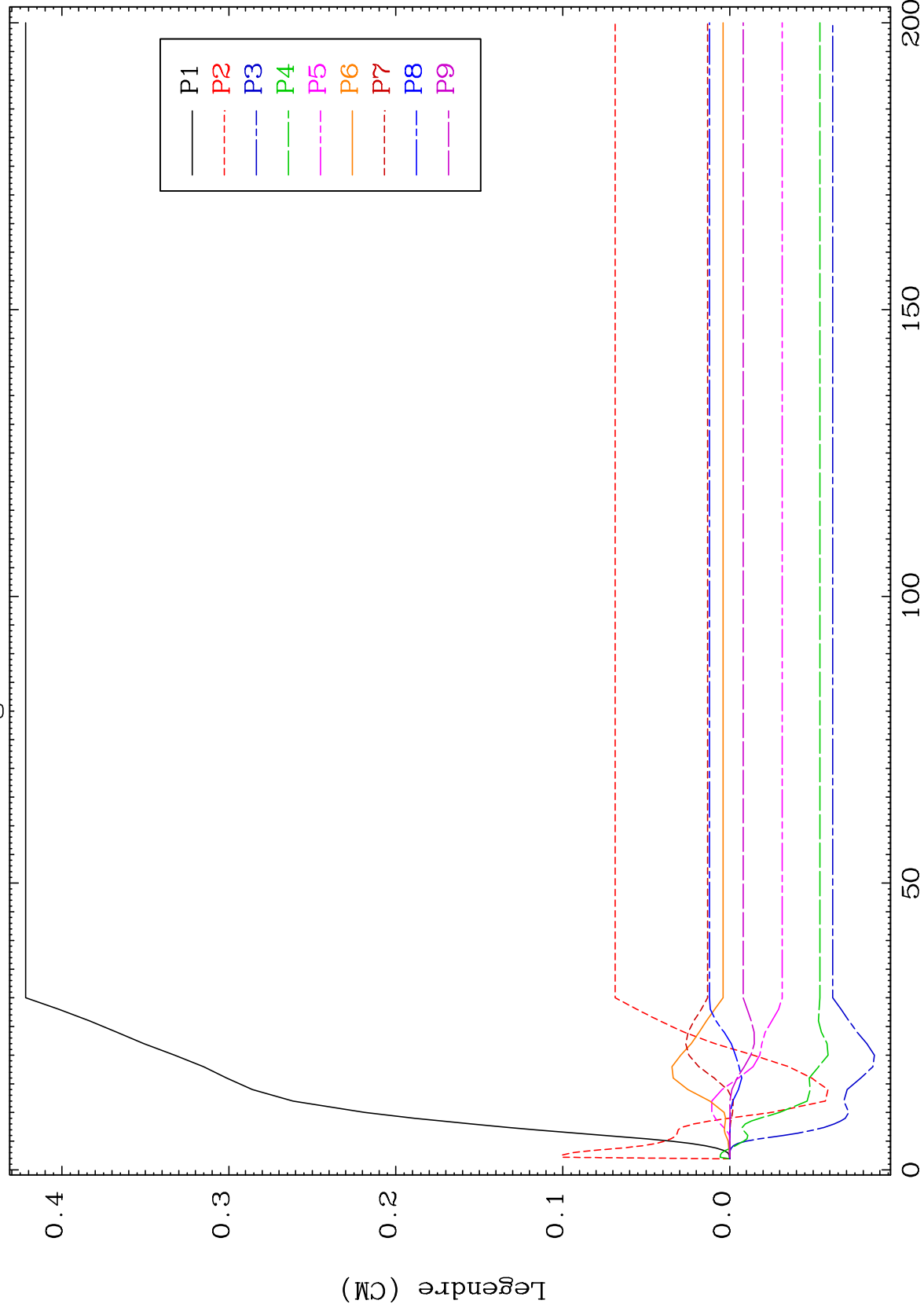




MAT 6216

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

62-Sm-141



62-Sm-141

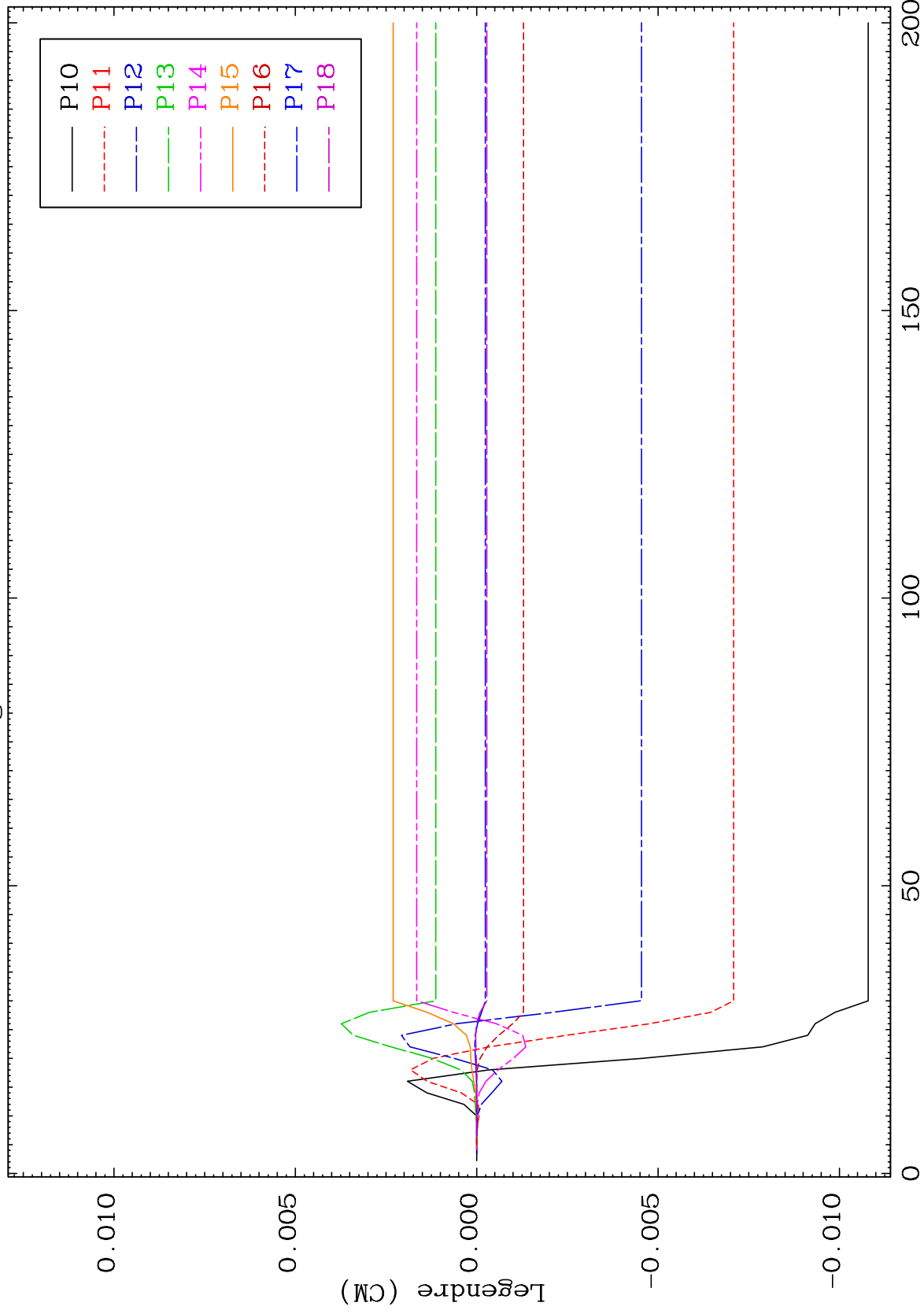
Incident Energy (MeV)

112

MAT 6216

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

62-Sm-141



113

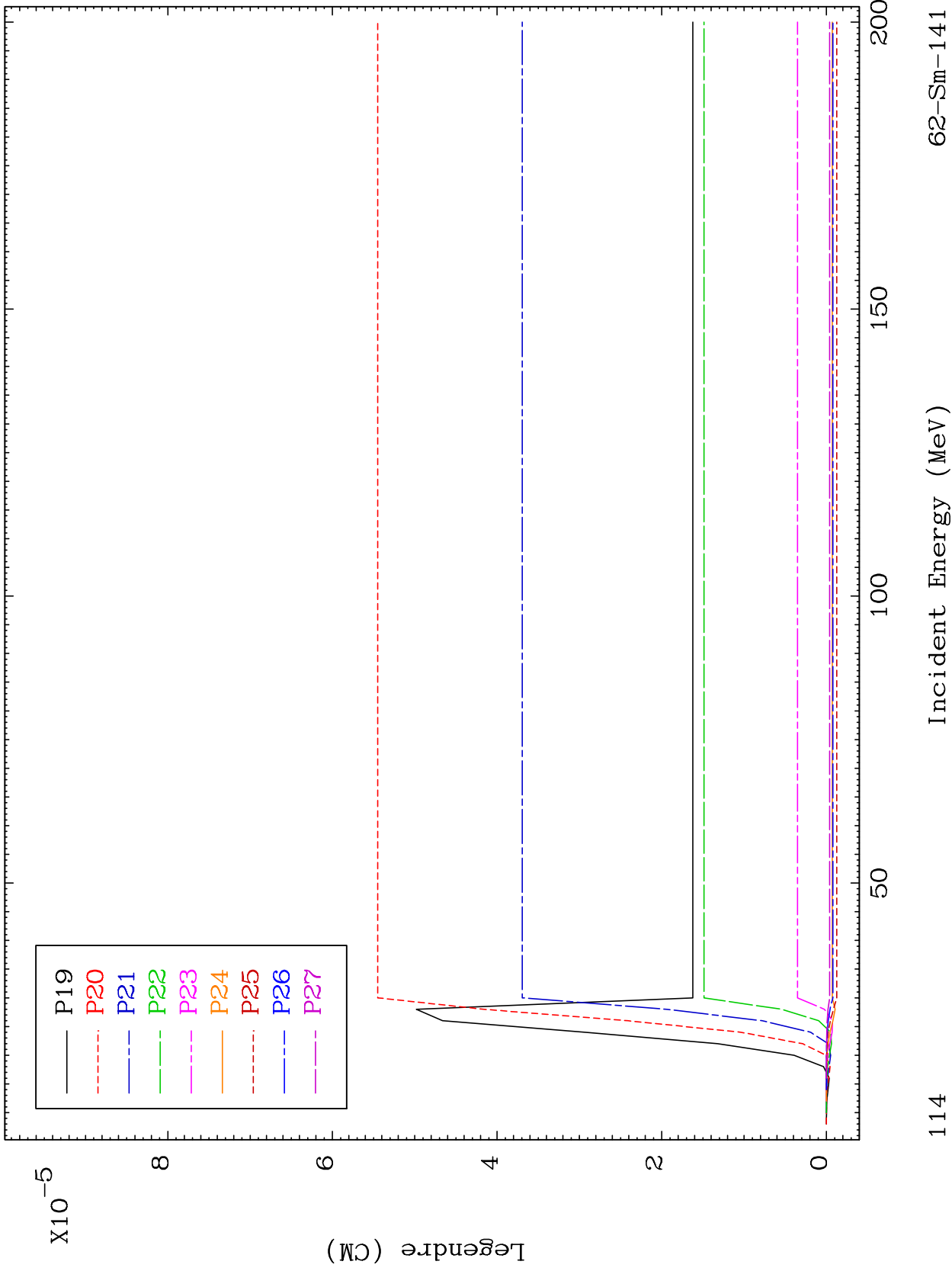
Incident Energy (MeV)

62-Sm-141

MAT 6216

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

62-Sm-141

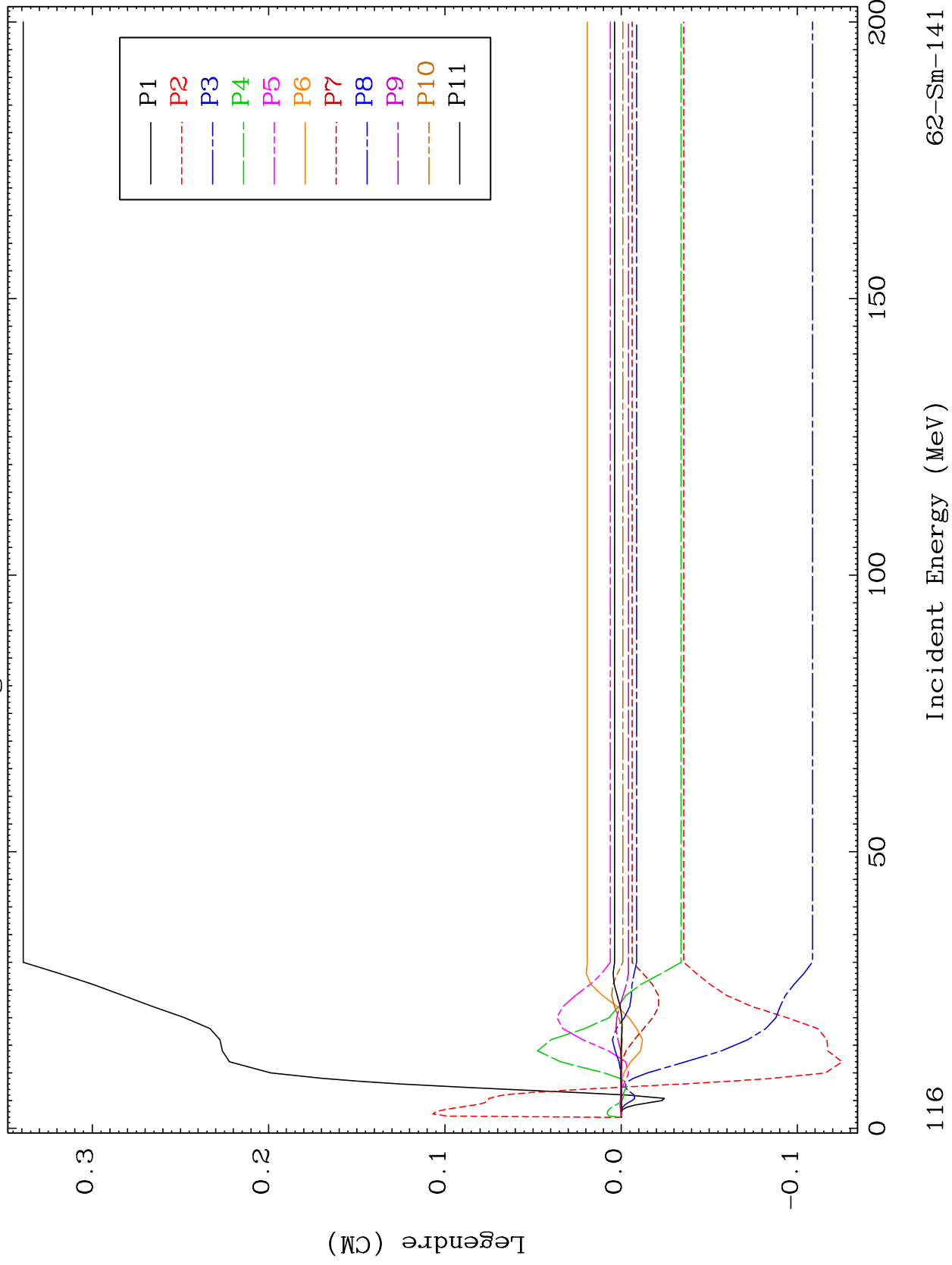




MAT 6216

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

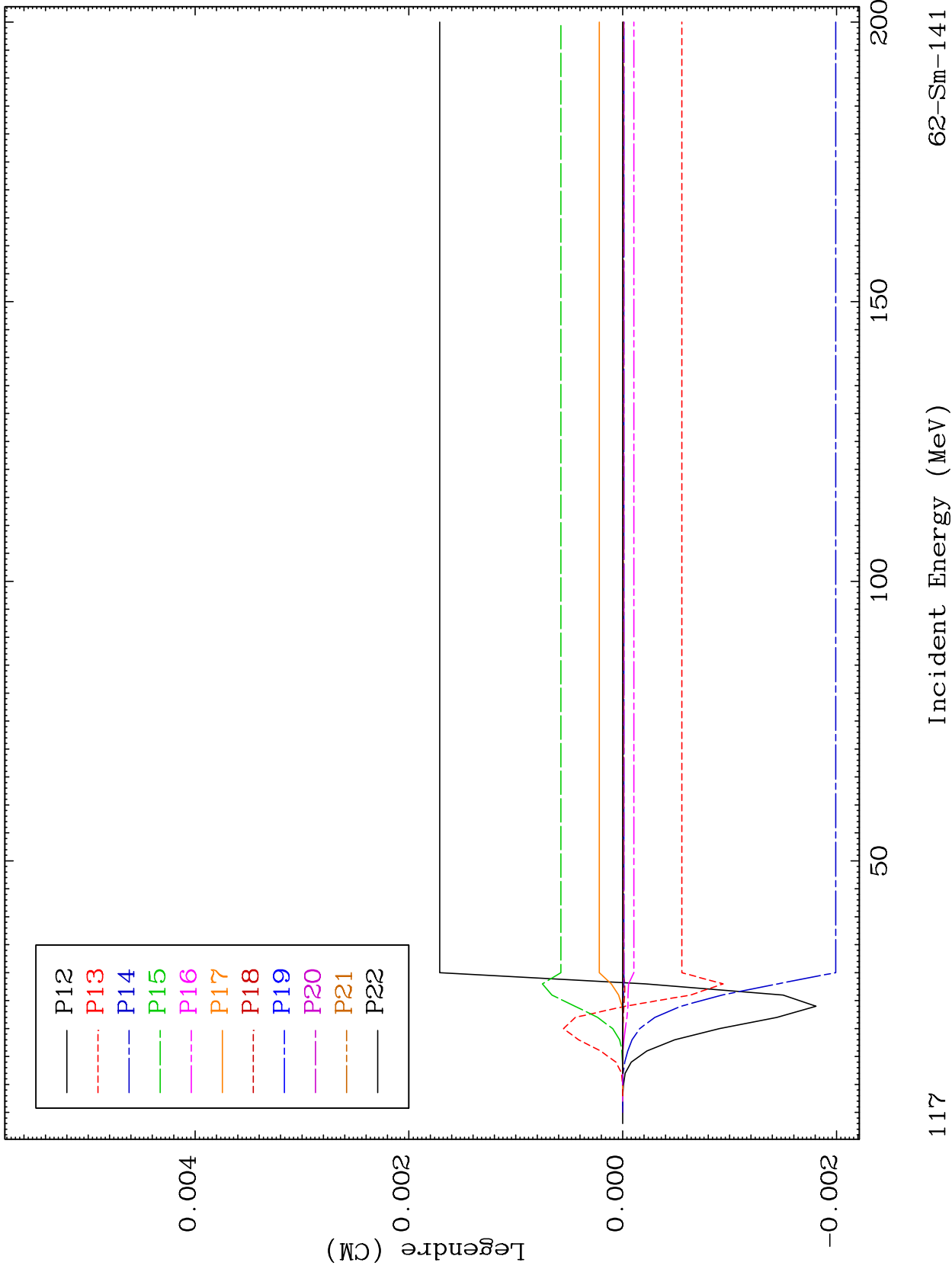
62-Sm-141

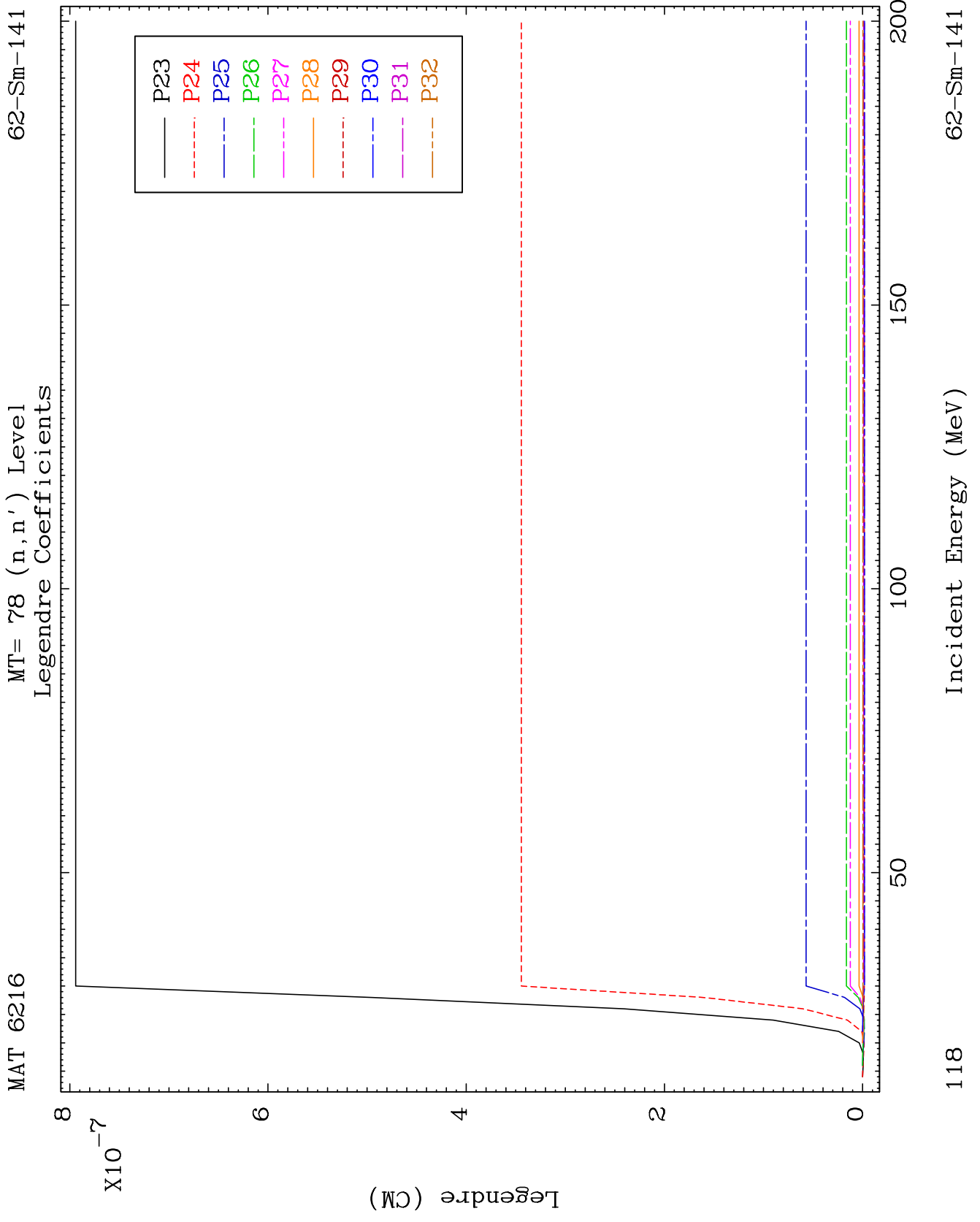


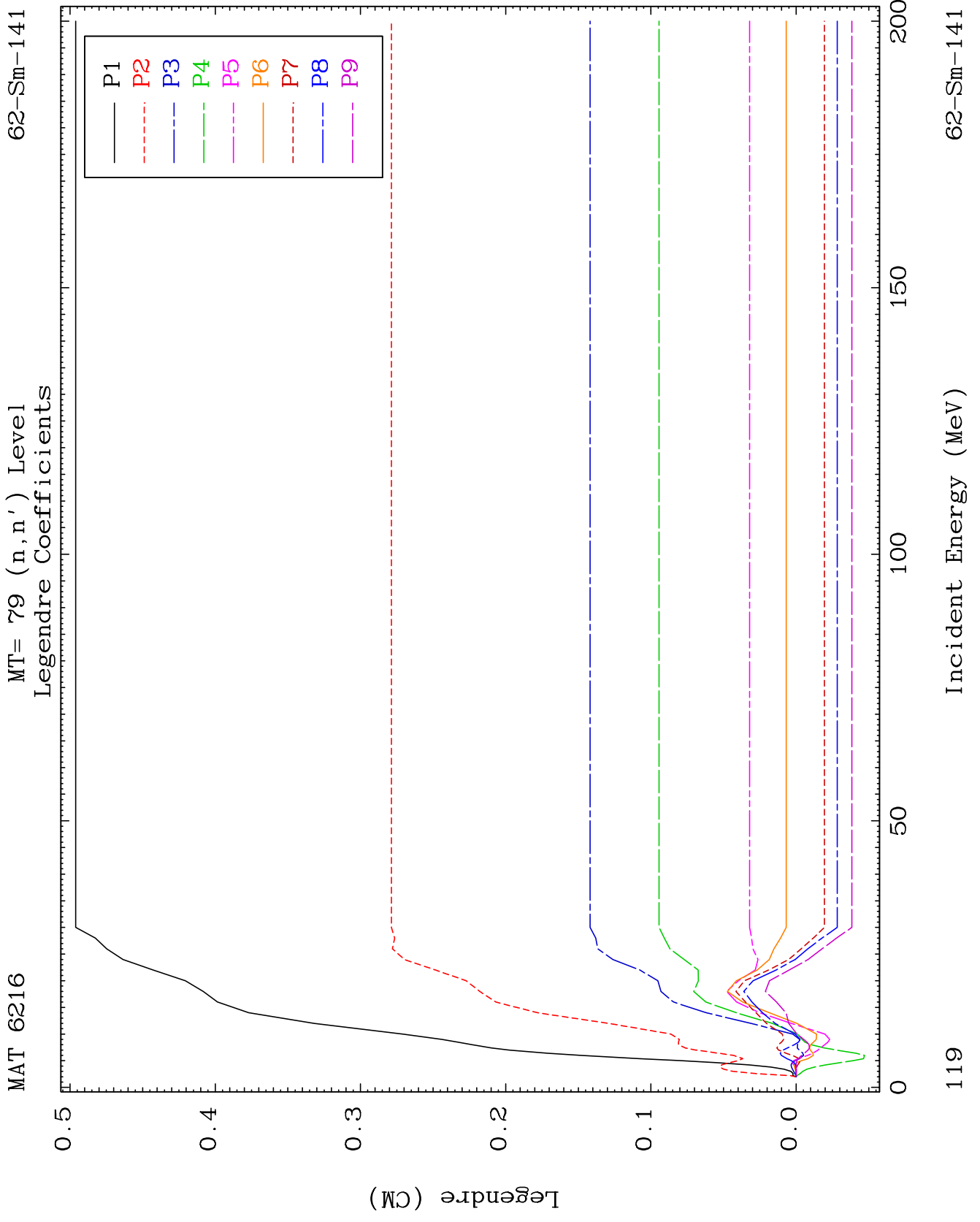
116

Incident Energy (MeV)

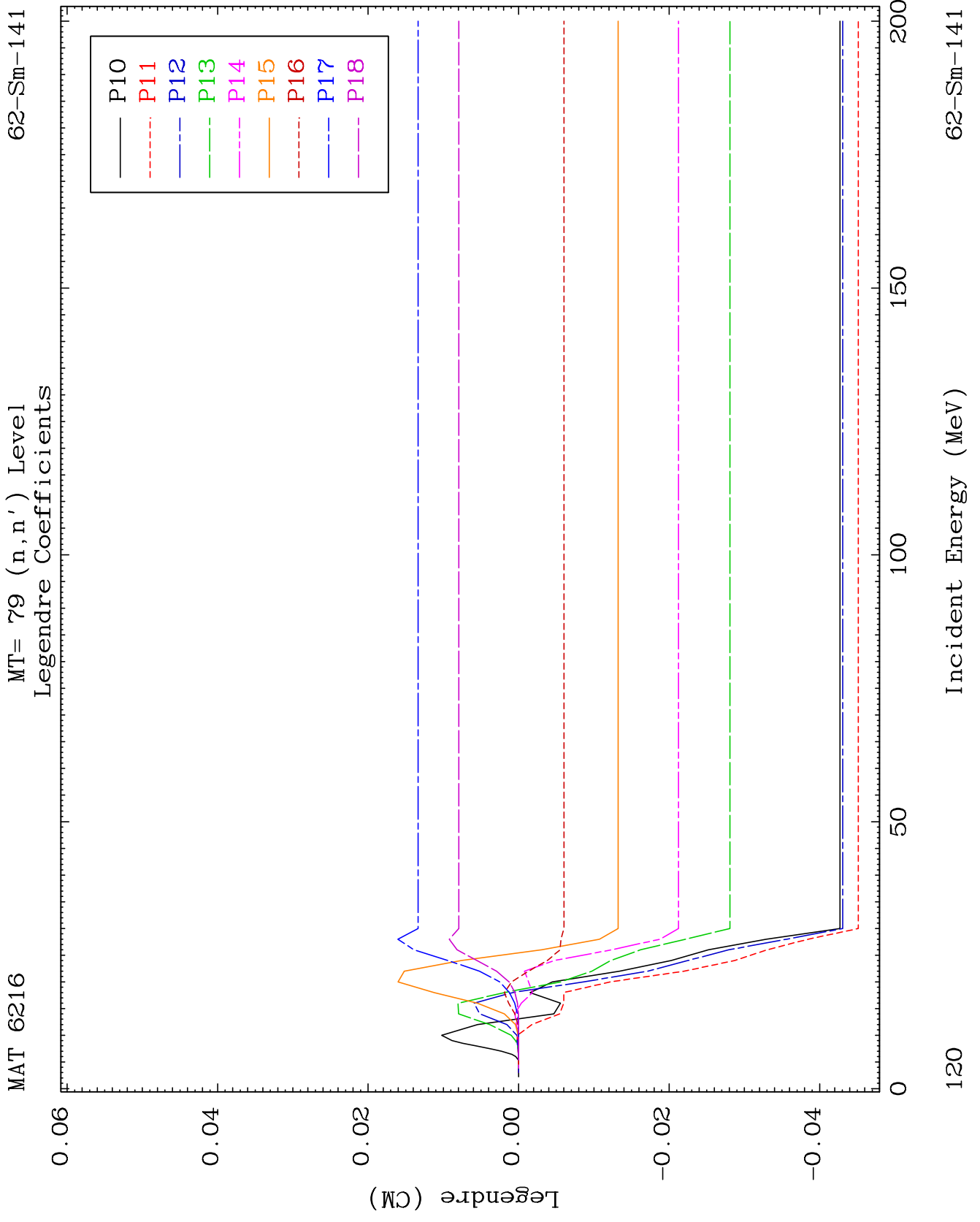
62-Sm-141







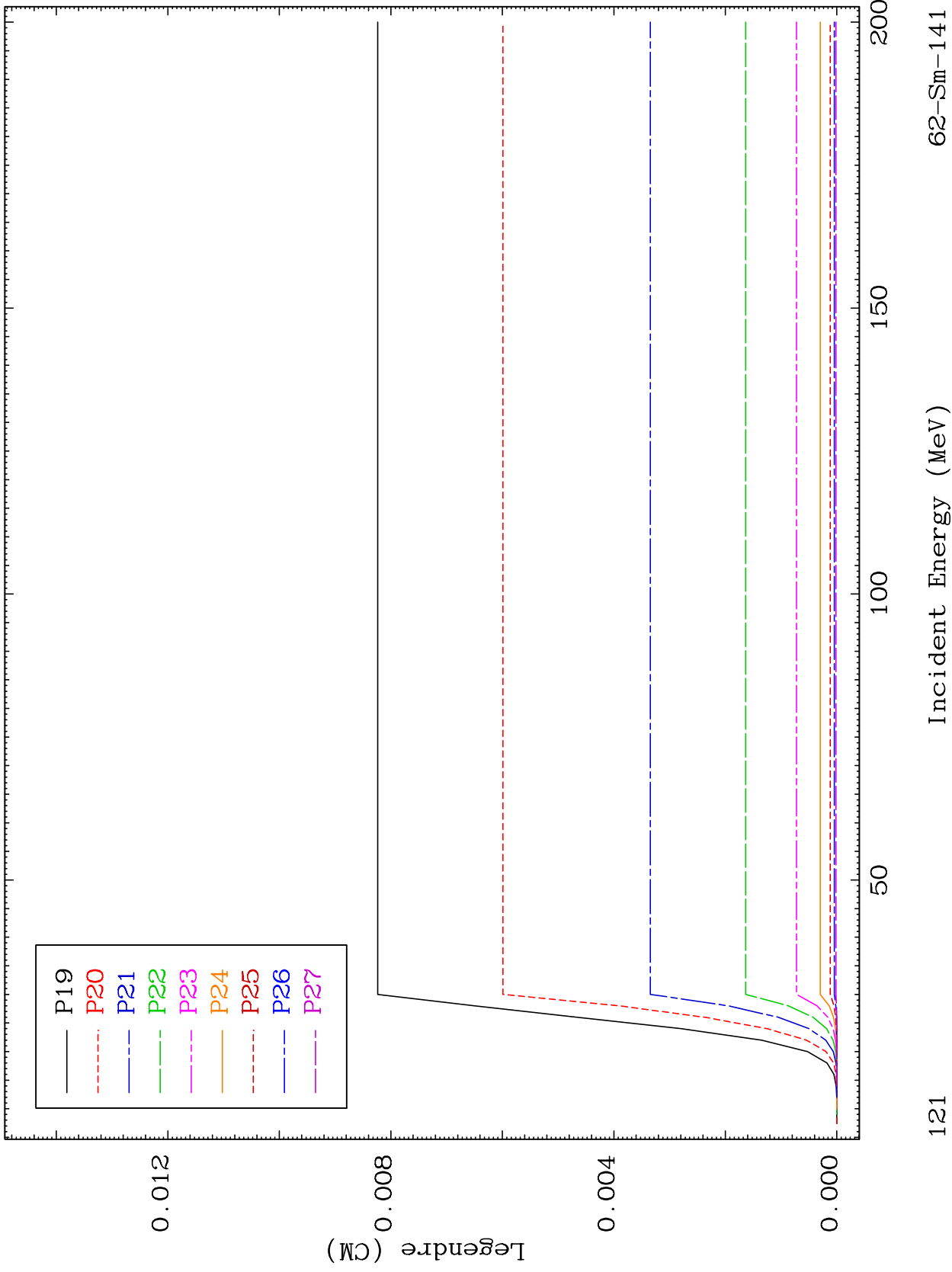




MAT 6216

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

62-Sm-141



121

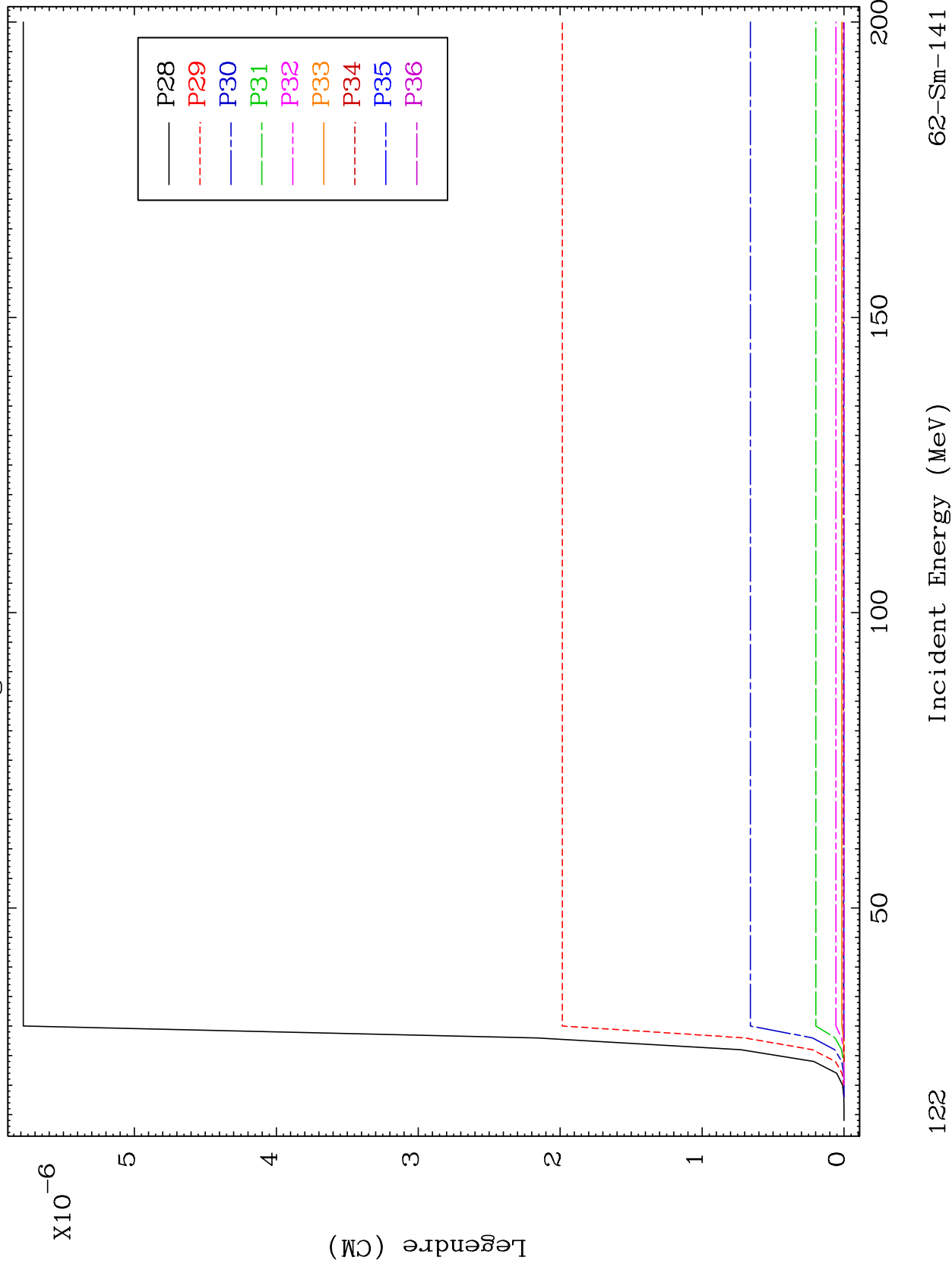
Incident Energy (MeV)

62-Sm-141

MAT 6216

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

62-Sm-141

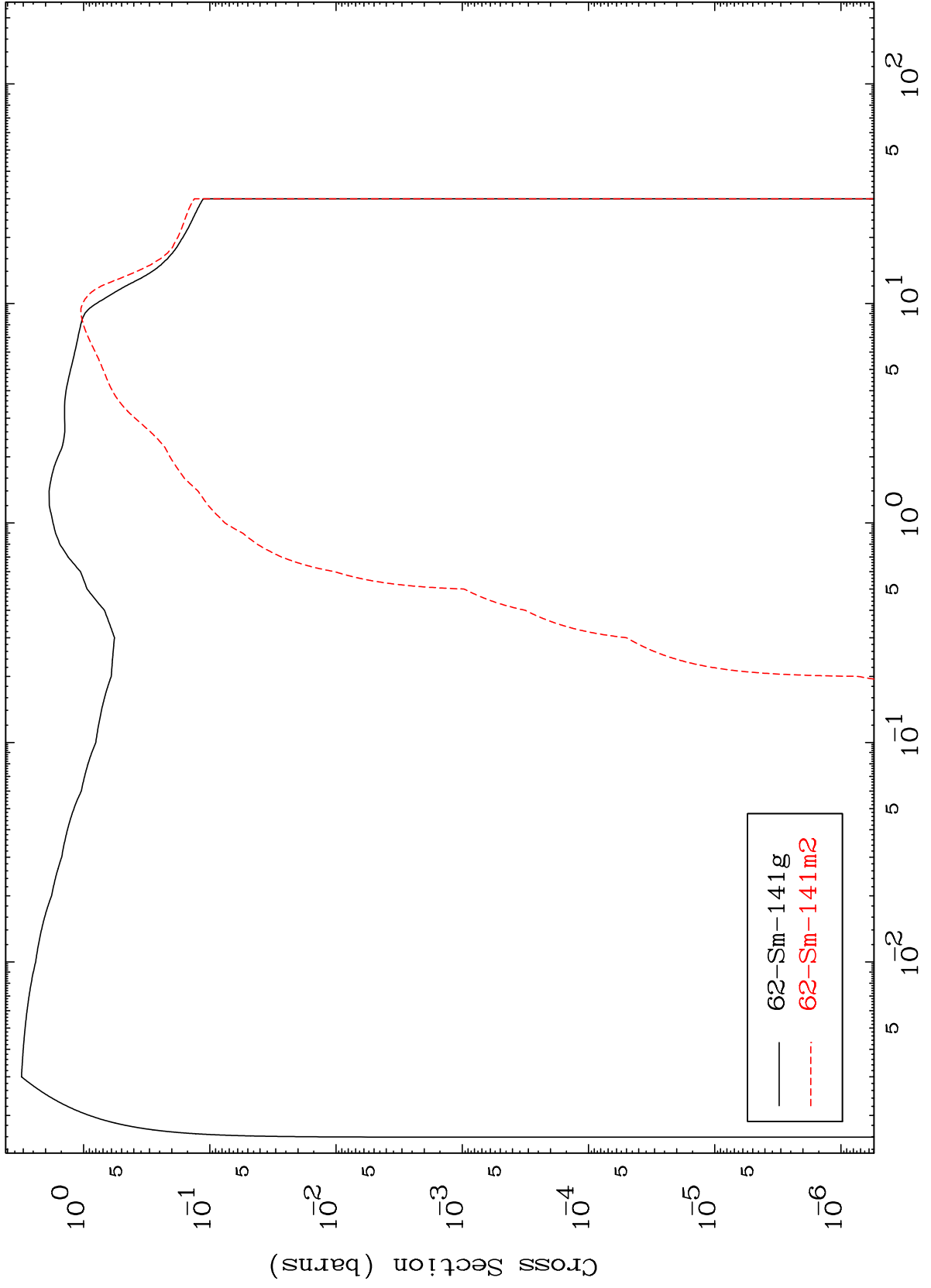


122

MAT 6216

62-Sm-141

Inelastic  
Radionuclide Production Cross Section



123

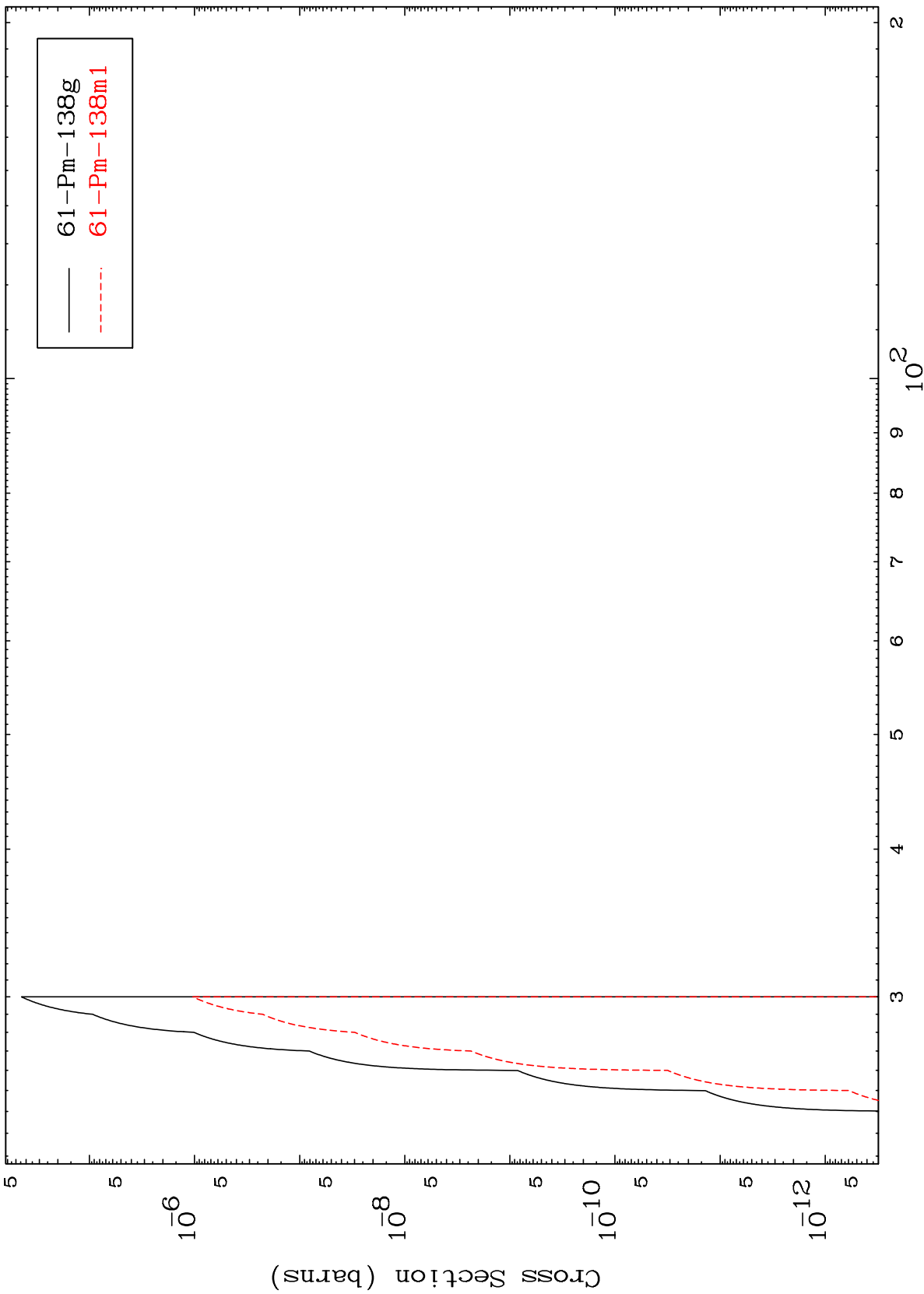
62-Sm-141

MAT 6216

(n,2n) d

62-Sm-141

Radionuclide Production Cross Section



61-Pm-138g  
61-Pm-138m1

124

Incident Energy (MeV)

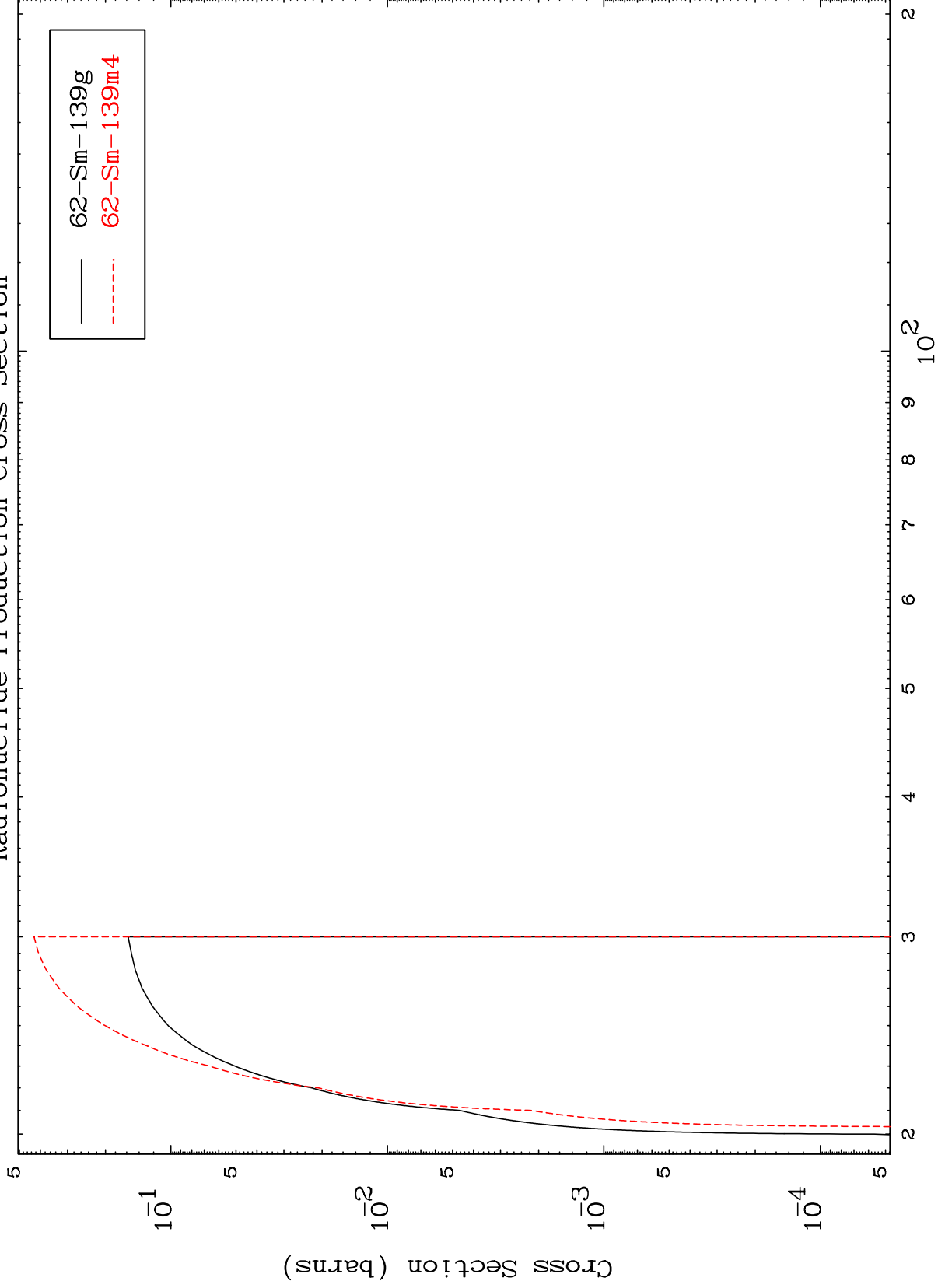
62-Sm-141

MAT 6216

(n,3n)

62-Sm-141

Radionuclide Production Cross Section



125

Incident Energy (MeV)

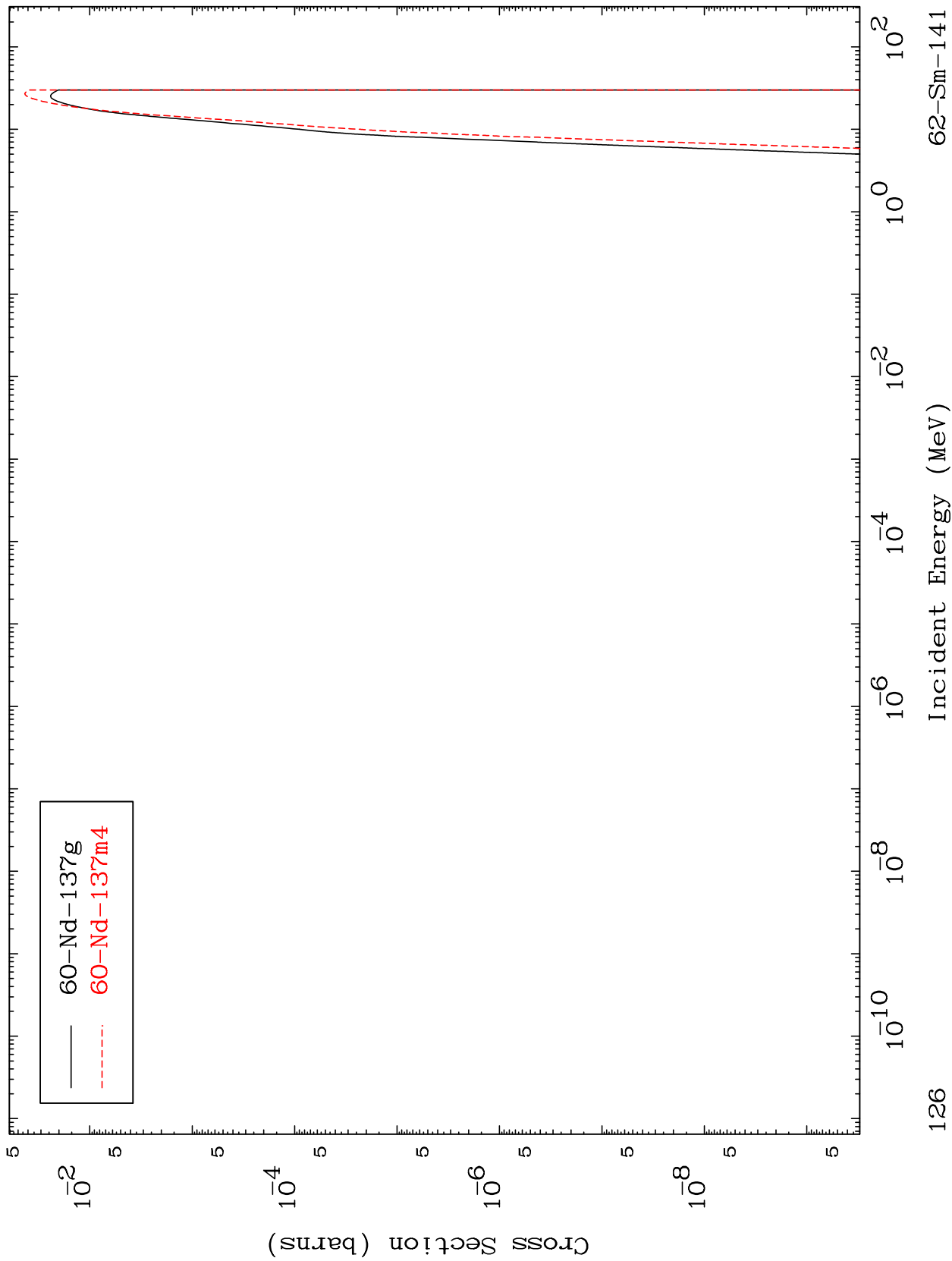
62-Sm-141

MAT 6216

$(n, n') \alpha$

62-Sm-141

Radionuclide Production Cross Section



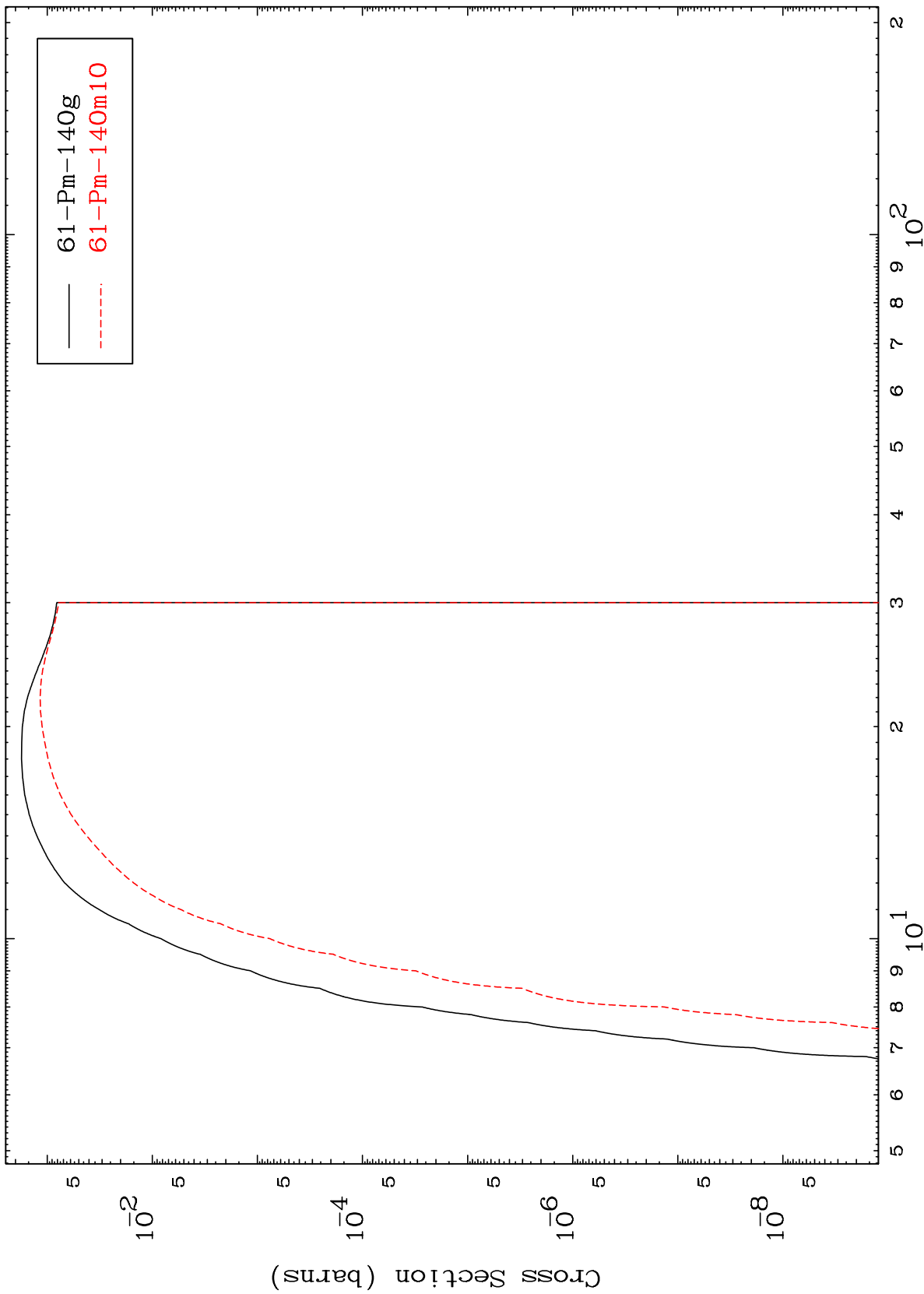
60-Nd-137g  
60-Nd-137m4

MAT 6216

(n, n') p

62-Sm-141

Radionuclide Production Cross Section



127

Incident Energy (MeV)

62-Sm-141

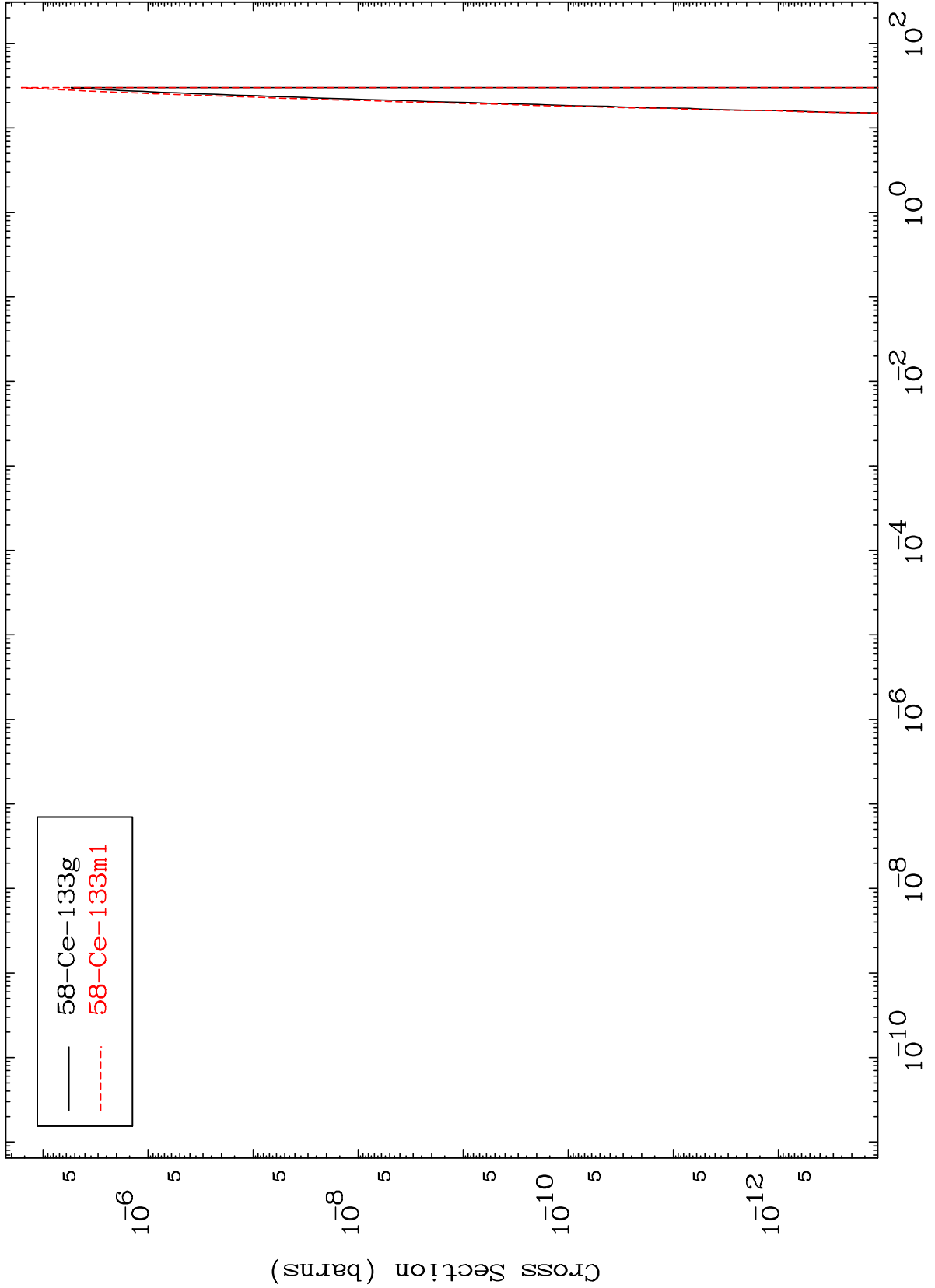


MAT 6216

(n,n') 2α

62-Sm-141

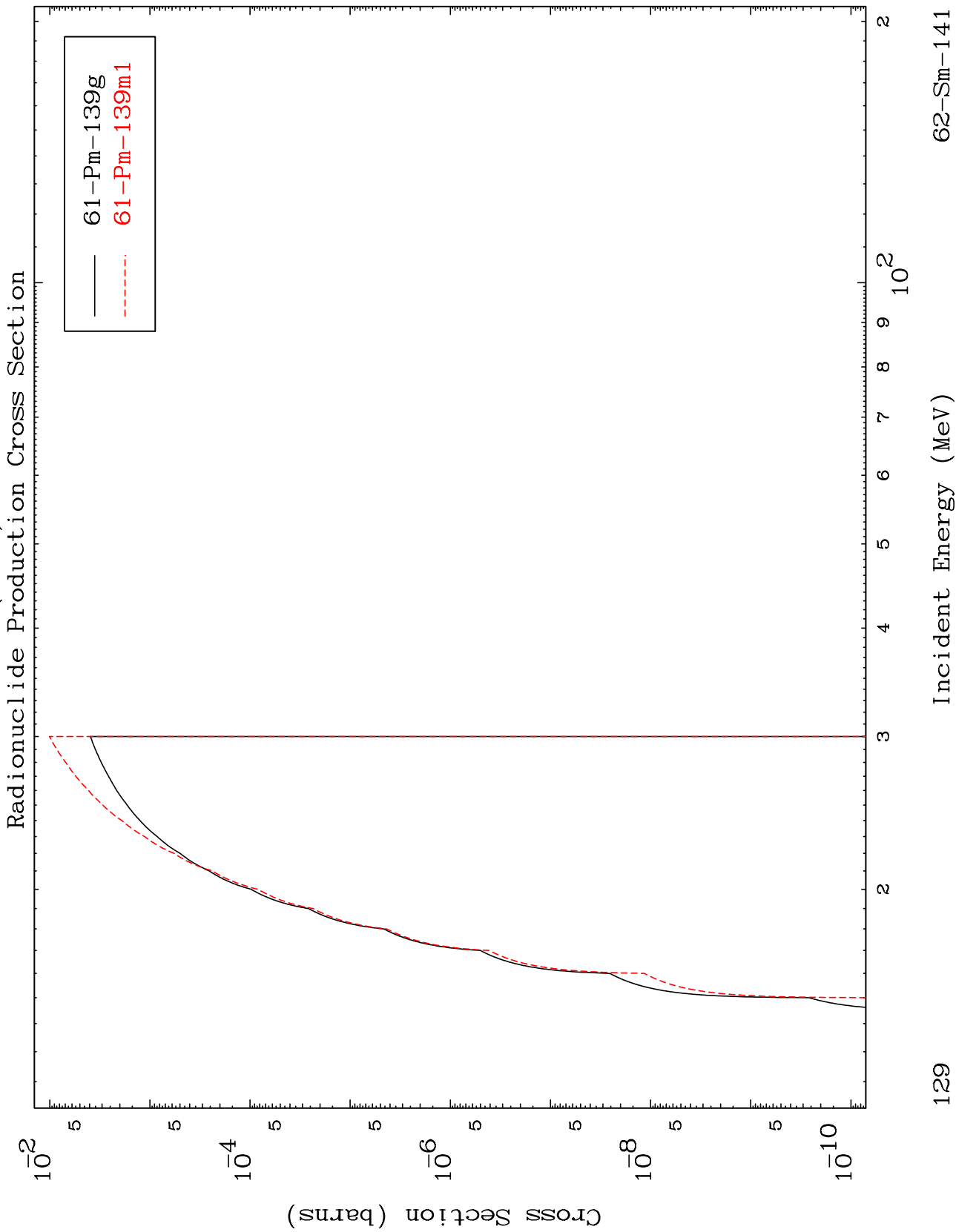
Radionuclide Production Cross Section



MAT 6216

(n,n') d

62-Sm-141



129

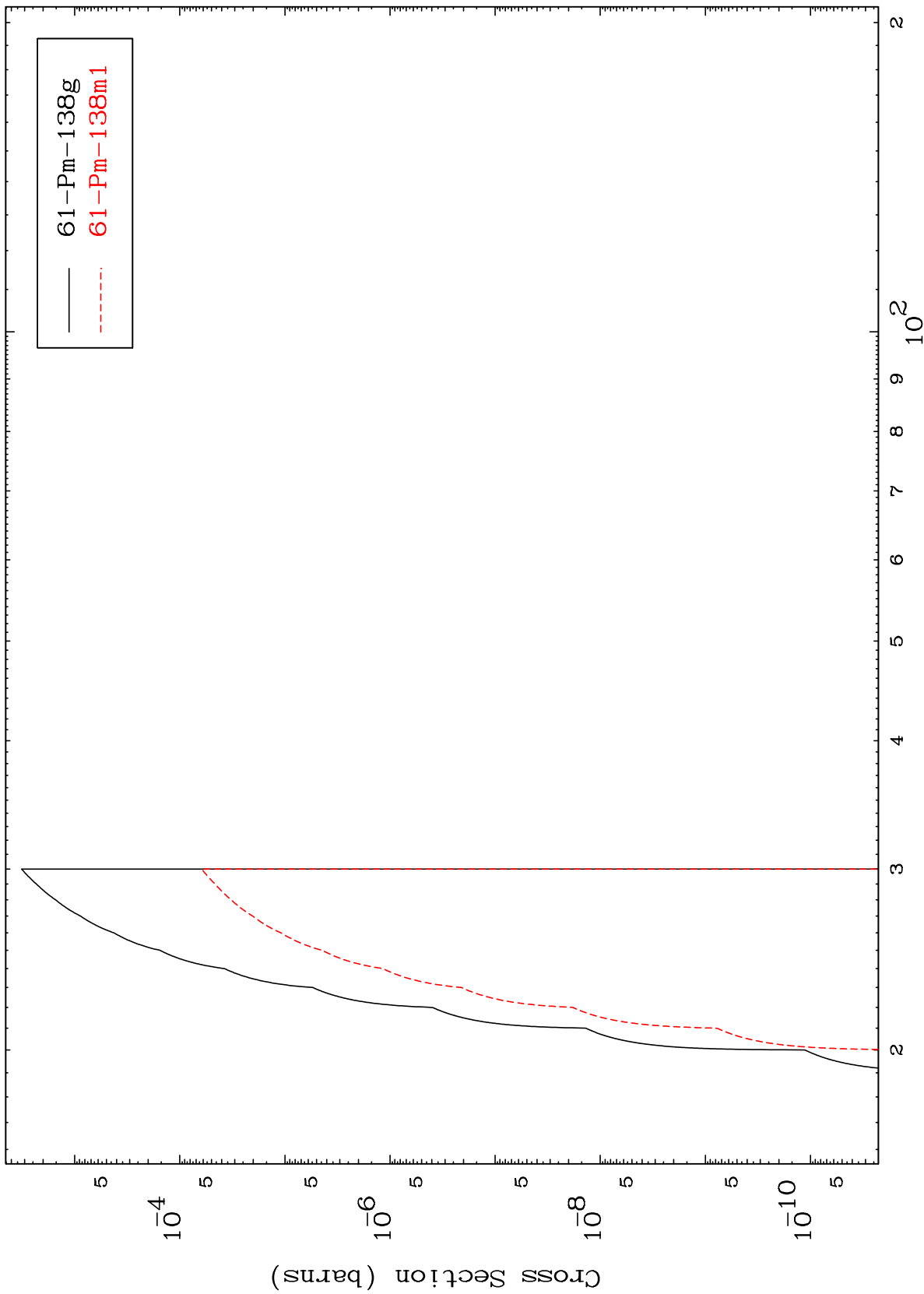
62-Sm-141

MAT 6216

(n,n') t

62-Sm-141

Radionuclide Production Cross Section



130

Incident Energy (MeV)

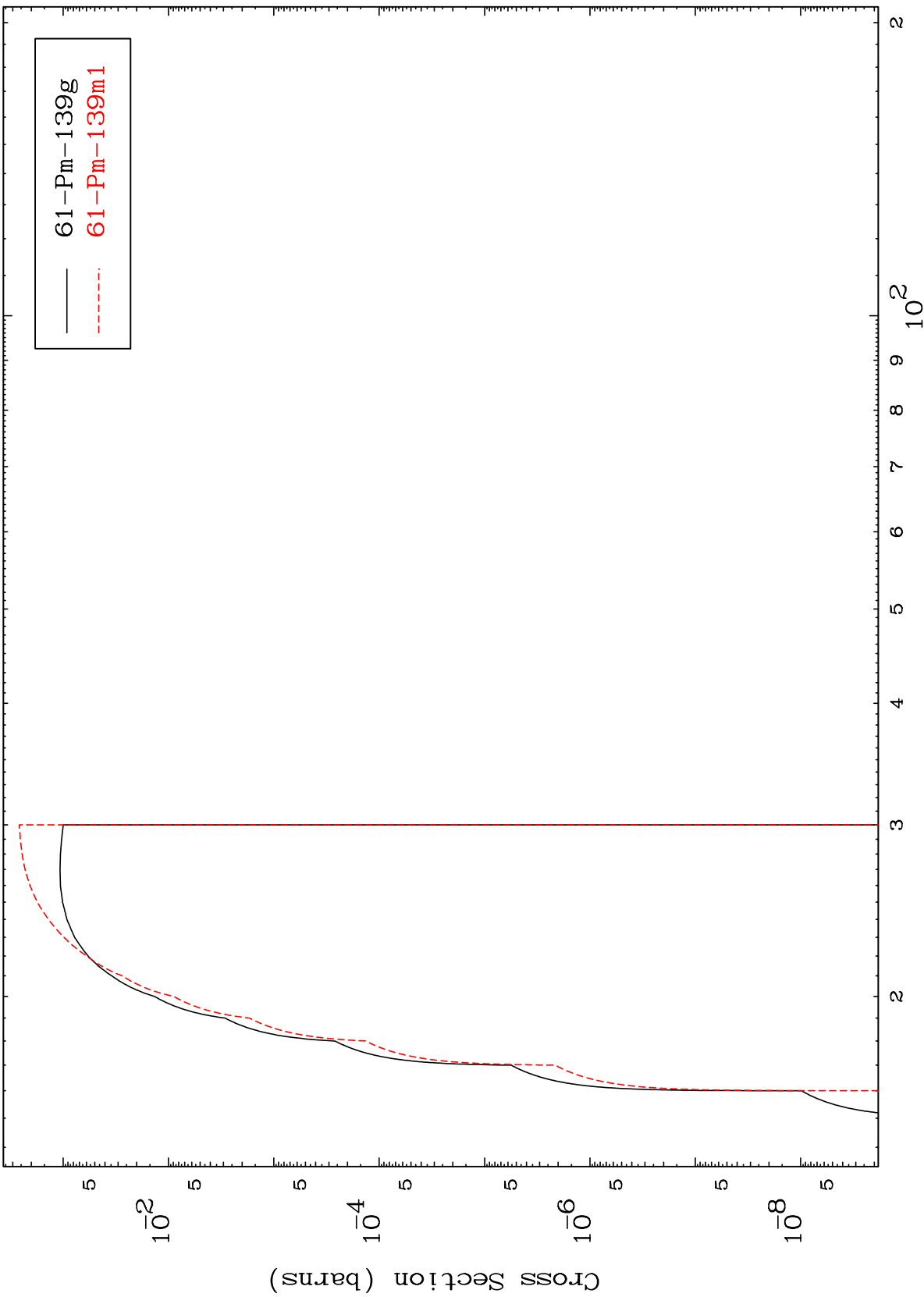
62-Sm-141

MAT 6216

(n,2n) p

62-Sm-141

Radionuclide Production Cross Section



131

Incident Energy (MeV)

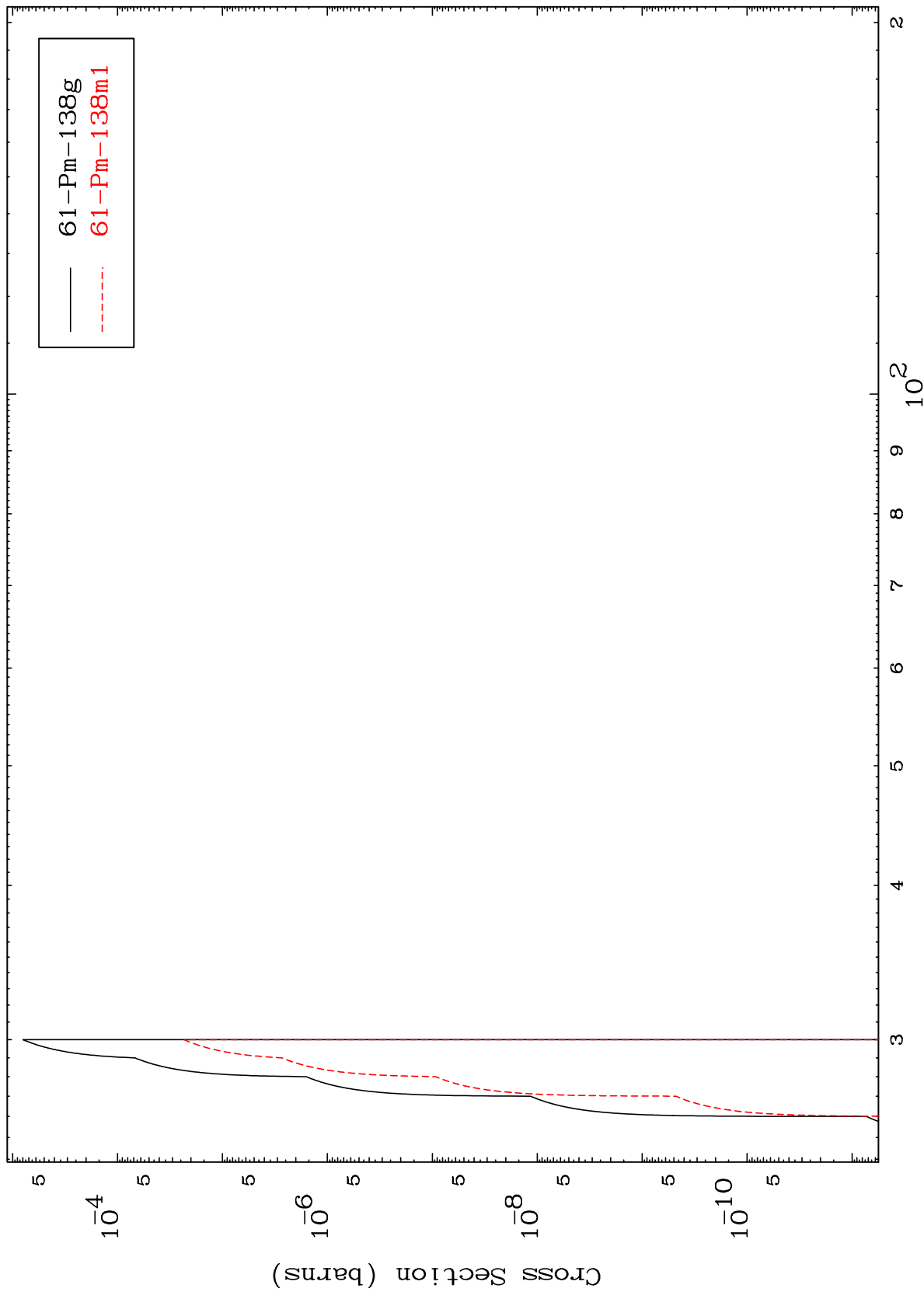
62-Sm-141

MAT 6216

(n,3n) p

62-Sm-141

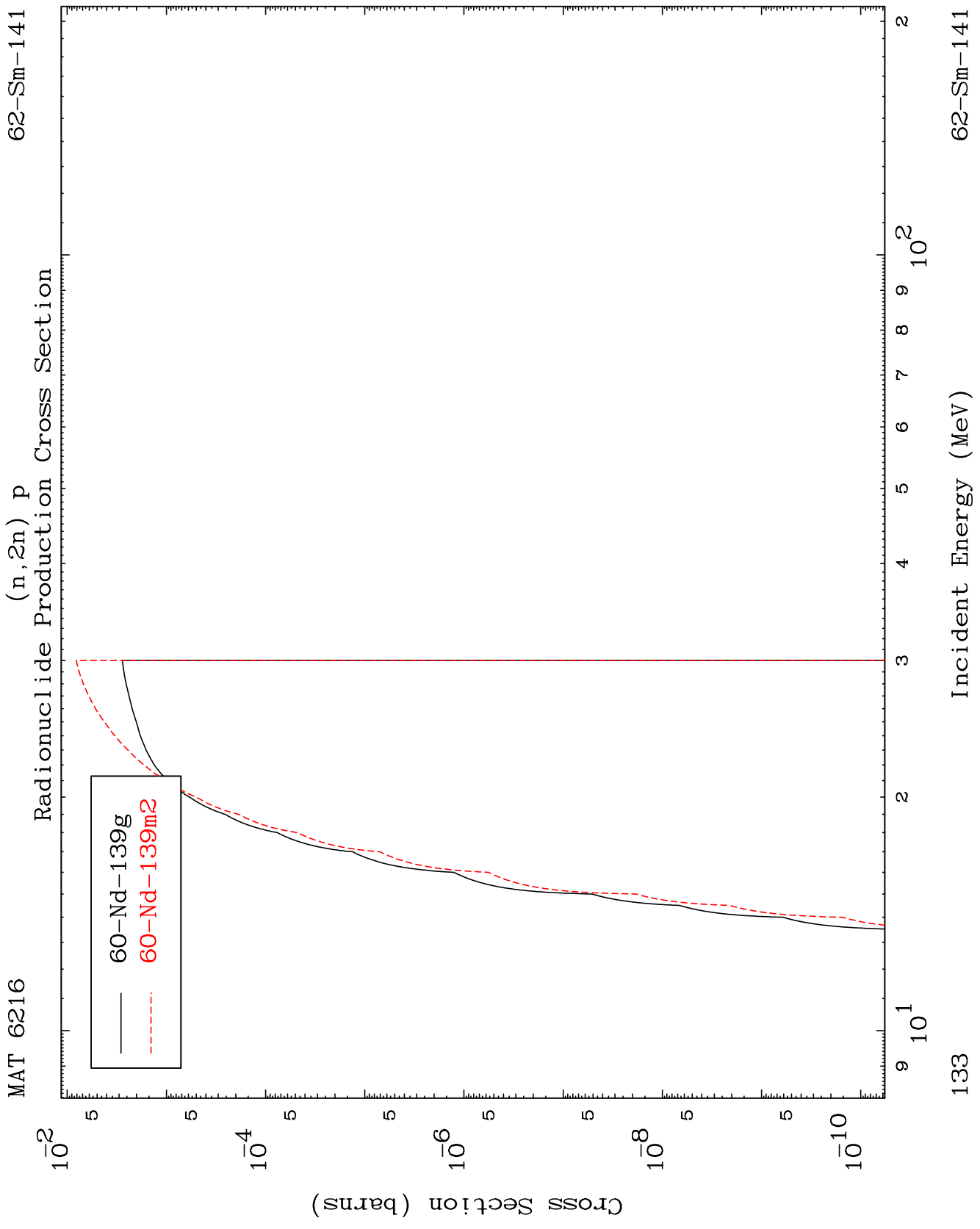
Radionuclide Production Cross Section



132

Incident Energy (MeV)

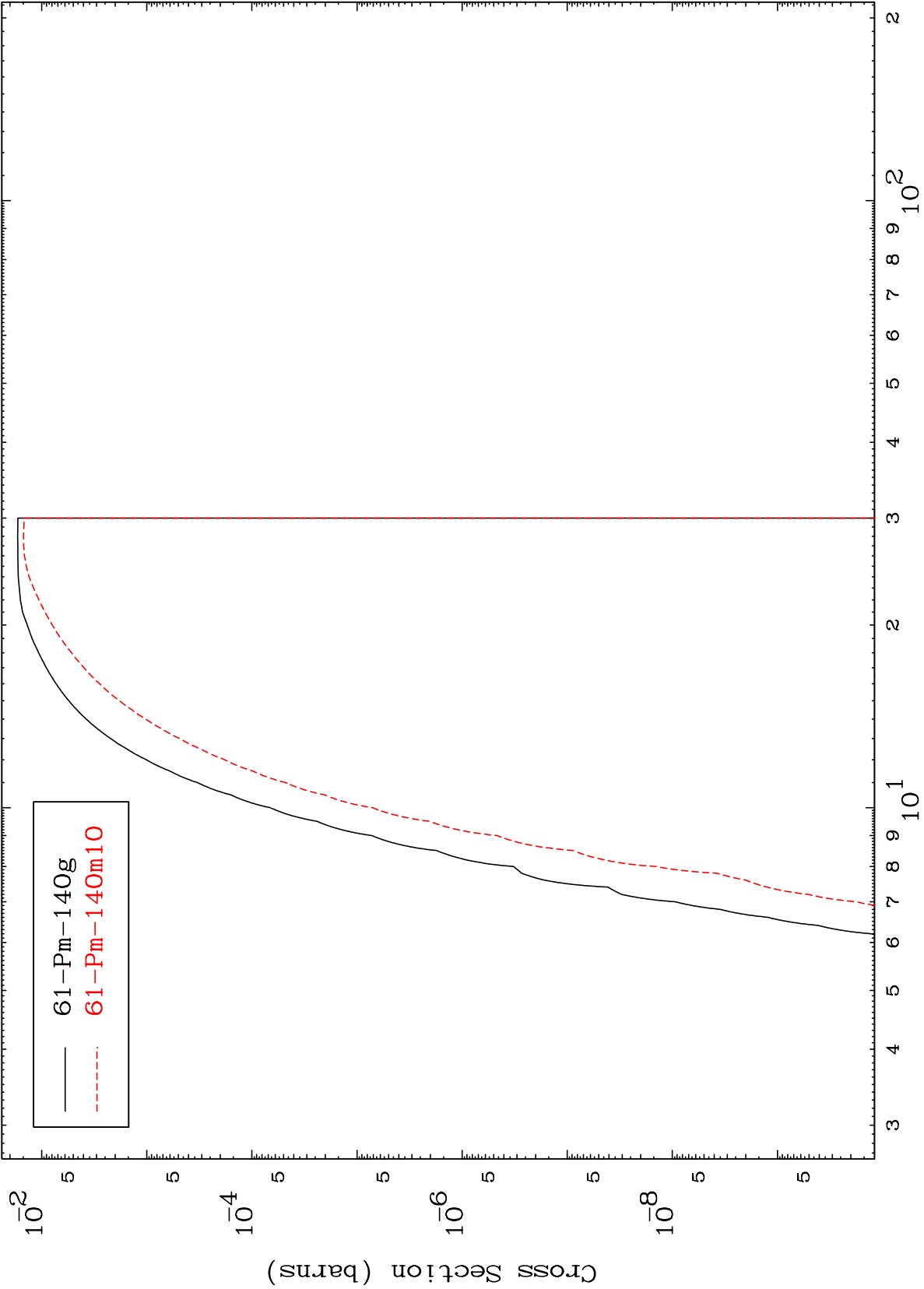
62-Sm-141



MAT 6216

62-Sm-141

(n,d)  
Radionuclide Production Cross Section



— 61-Pm-140g  
- - - 61-Pm-140m10

134

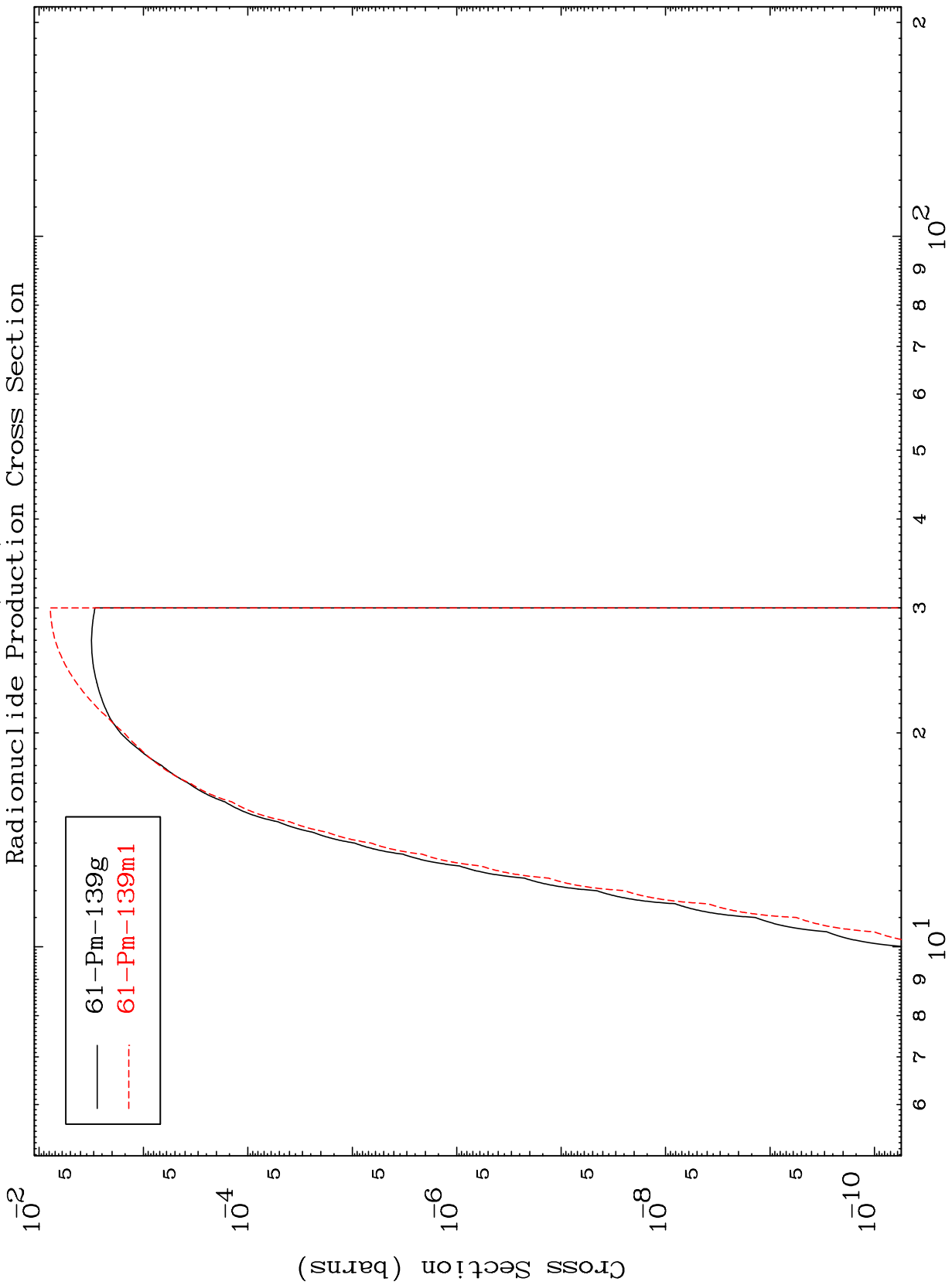
Incident Energy (MeV)

62-Sm-141

MAT 6216

62-Sm-141

Radionuclide Production Cross Section  
(n, t)



135

Incident Energy (MeV)

62-Sm-141

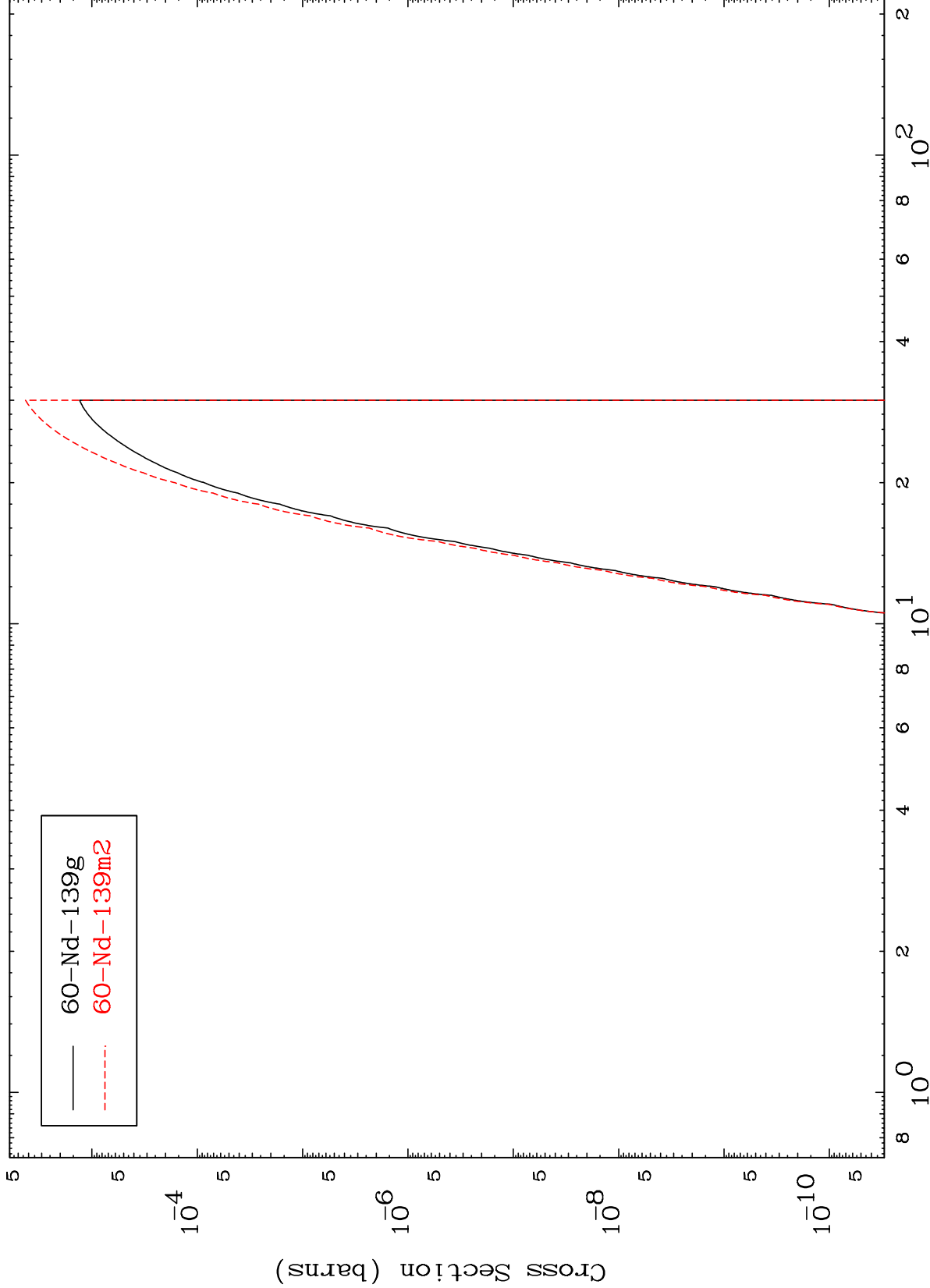


MAT 6216

(n,He-3)

62-Sm-141

Radionuclide Production Cross Section



136

Incident Energy (MeV)

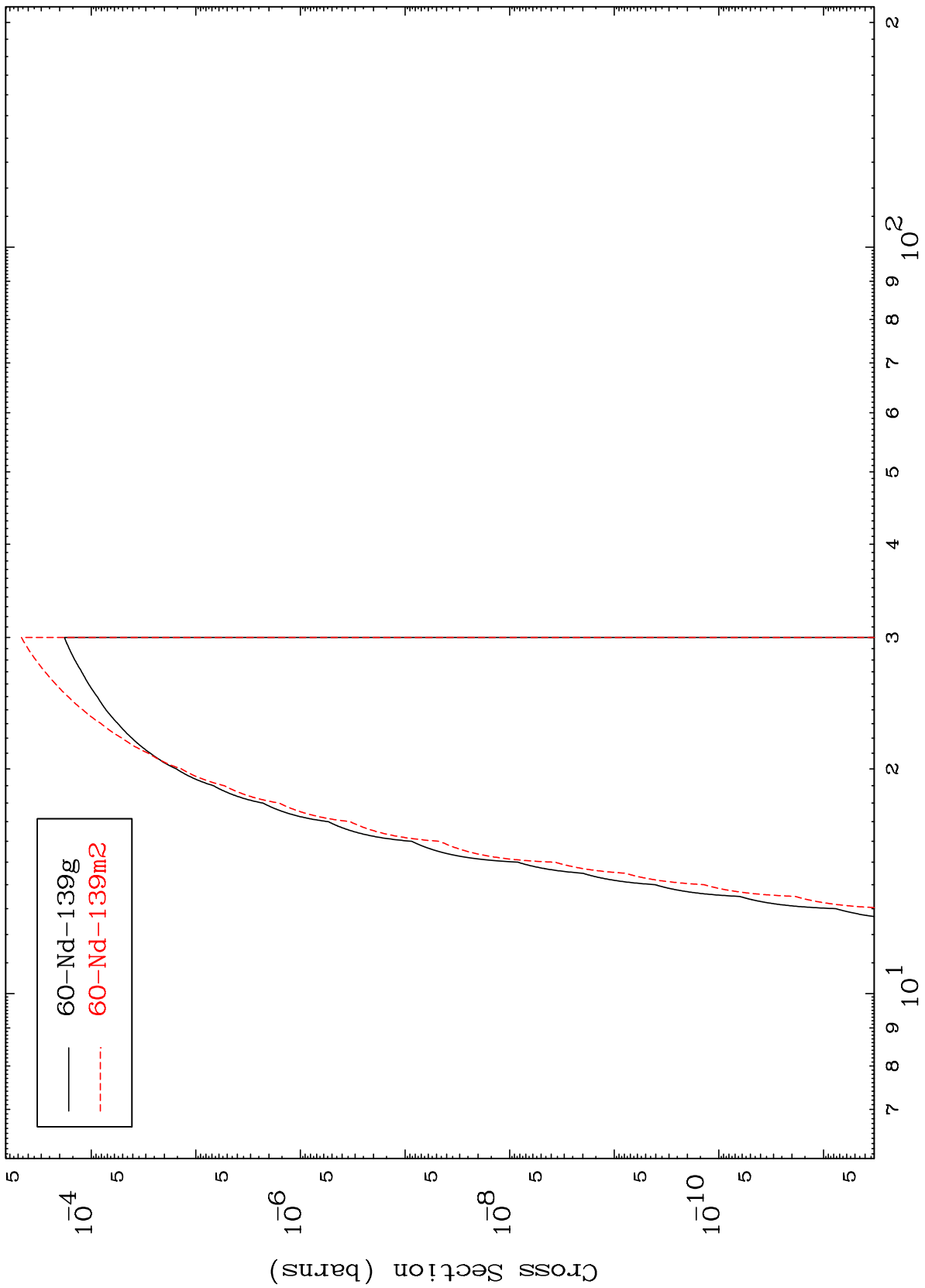
62-Sm-141

MAT 6216

$^{62}\text{Sm}$ -141

$^{60}\text{Nd}$ -139g

Radionuclide Production Cross Section (n,p) d



137

Incident Energy (MeV)

$^{62}\text{Sm}$ -141