

Program EVALPLOT  
(Version 2015-2)

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:home.comcast.net/~redcullen1

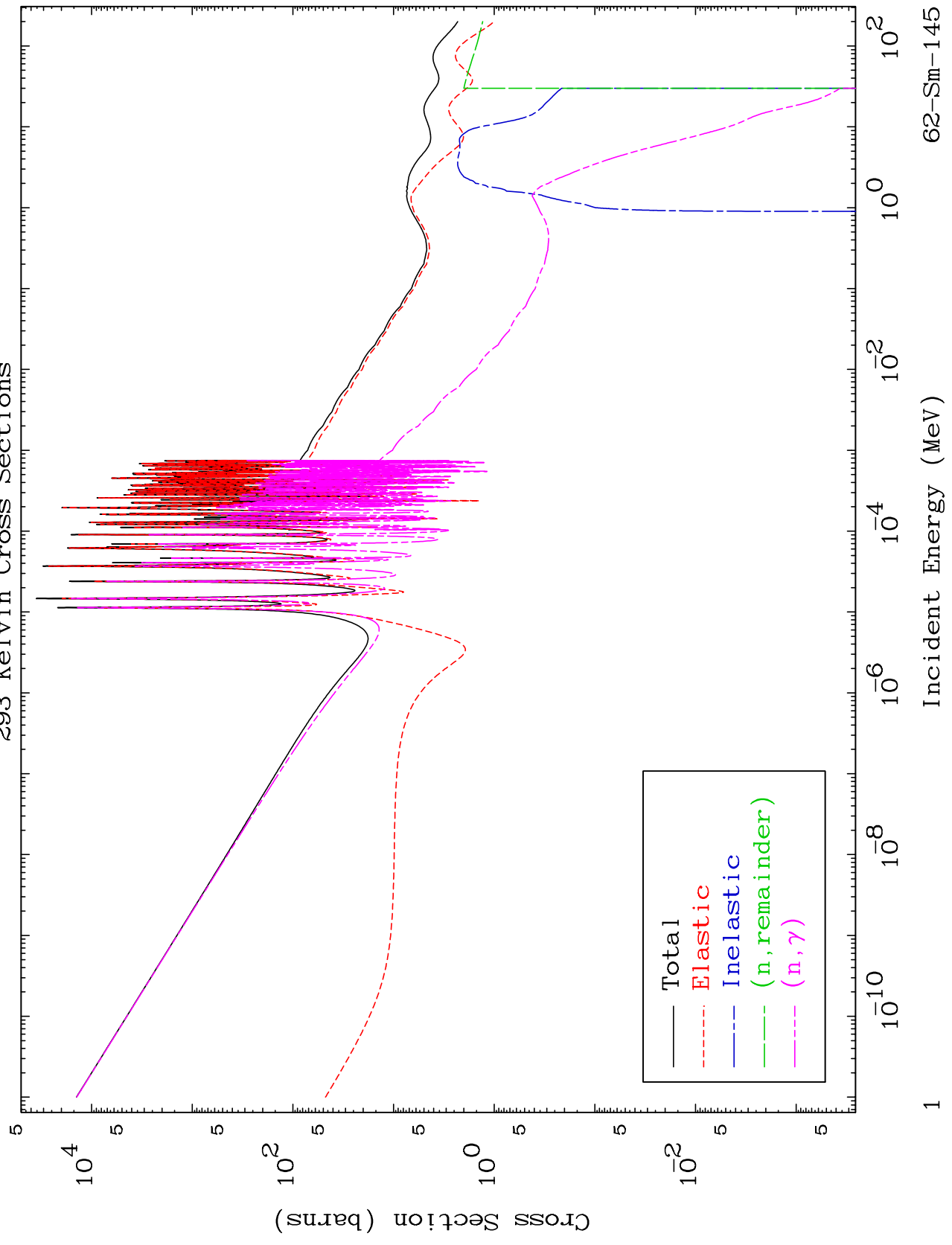
Press Mouse Button to Start

MAT 6228

Major

293 Kelvin Cross Sections

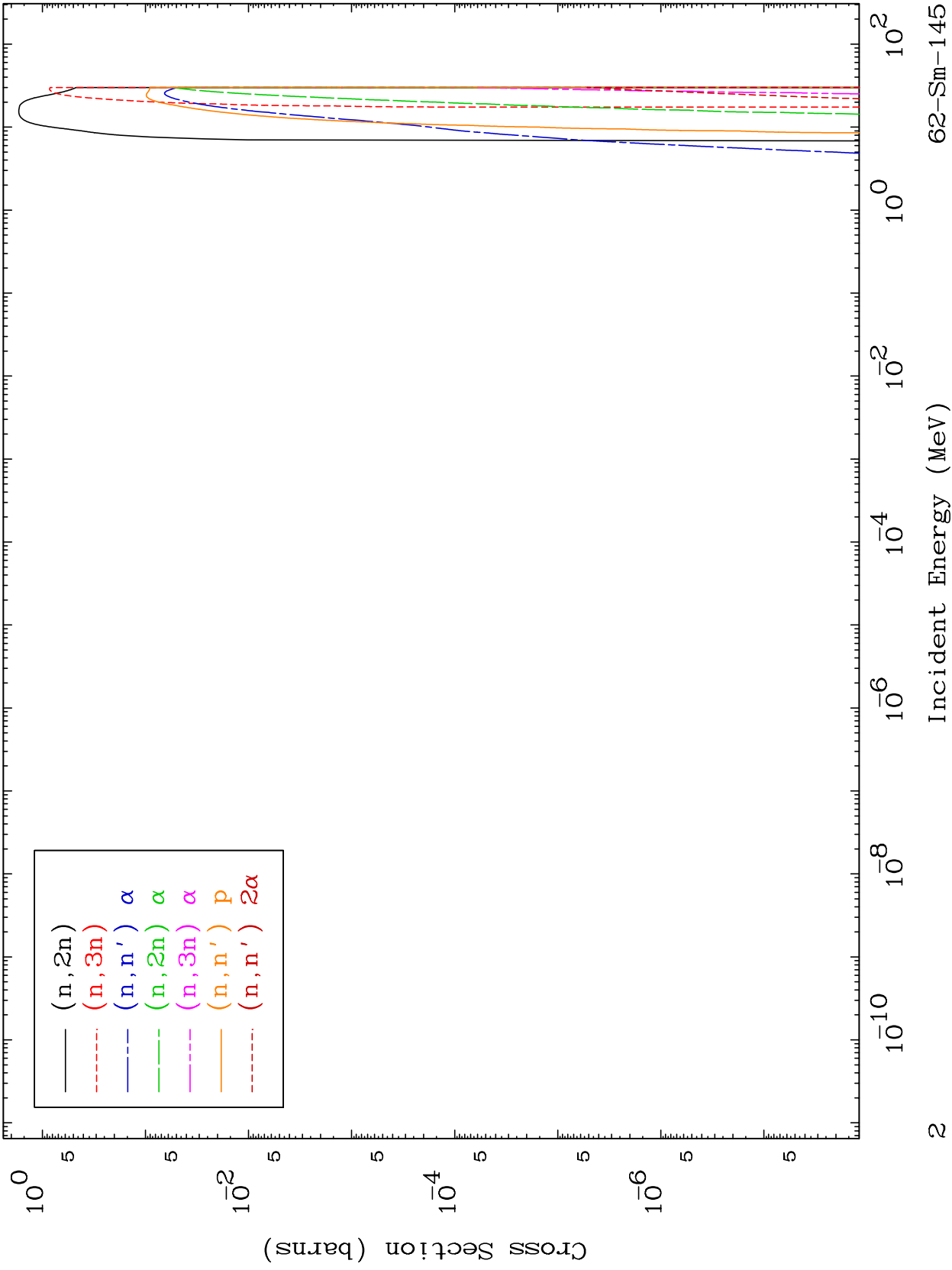
62-Sm-145

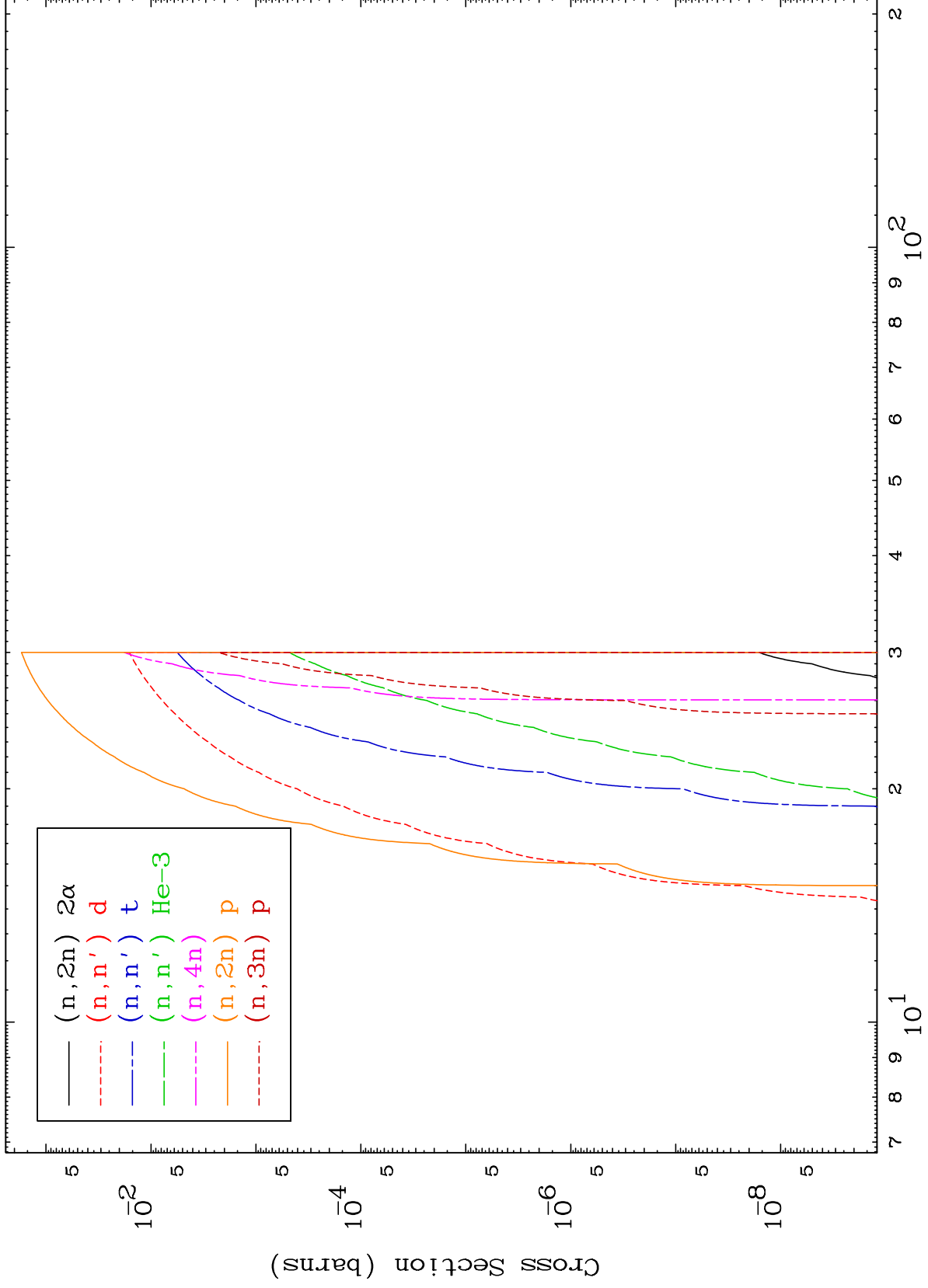


MAT 6228

Neutron Production  
293 Kelvin Cross Sections

62-Sm-145

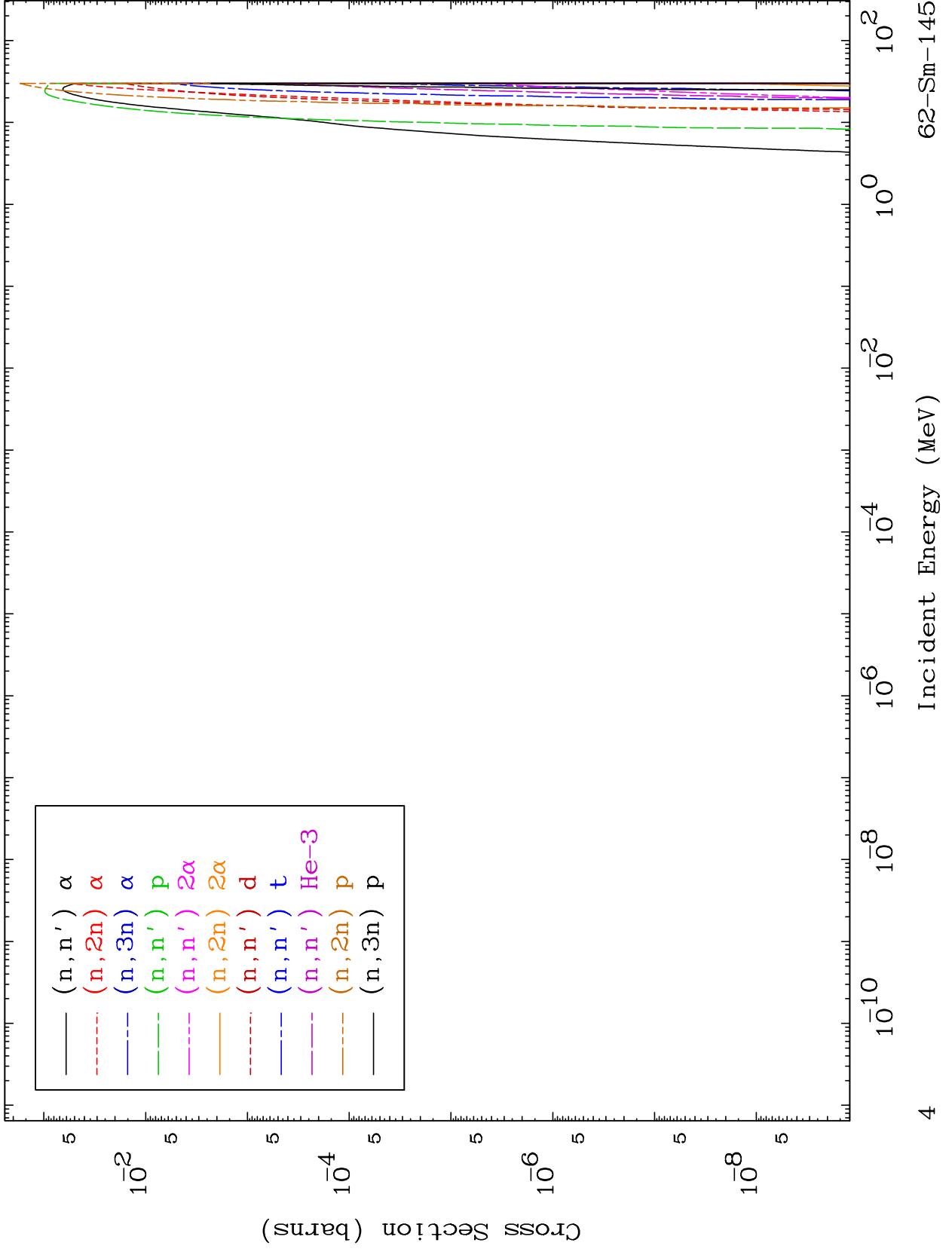




MAT 6228

Charged Particle  
293 Kelvin Cross Sections

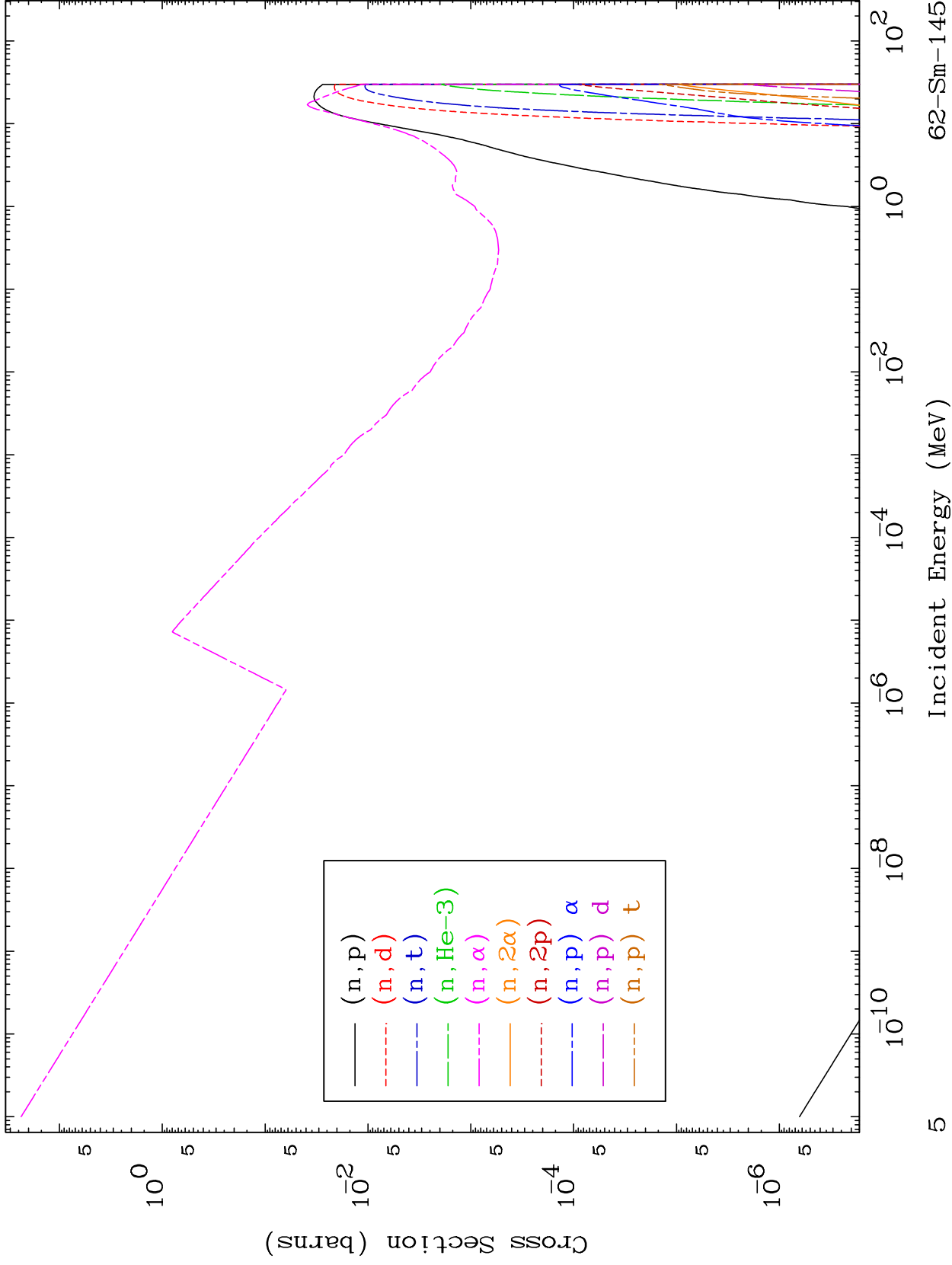
62-Sm-145



MAT 6228

Charged Particle  
293 Kelvin Cross Sections

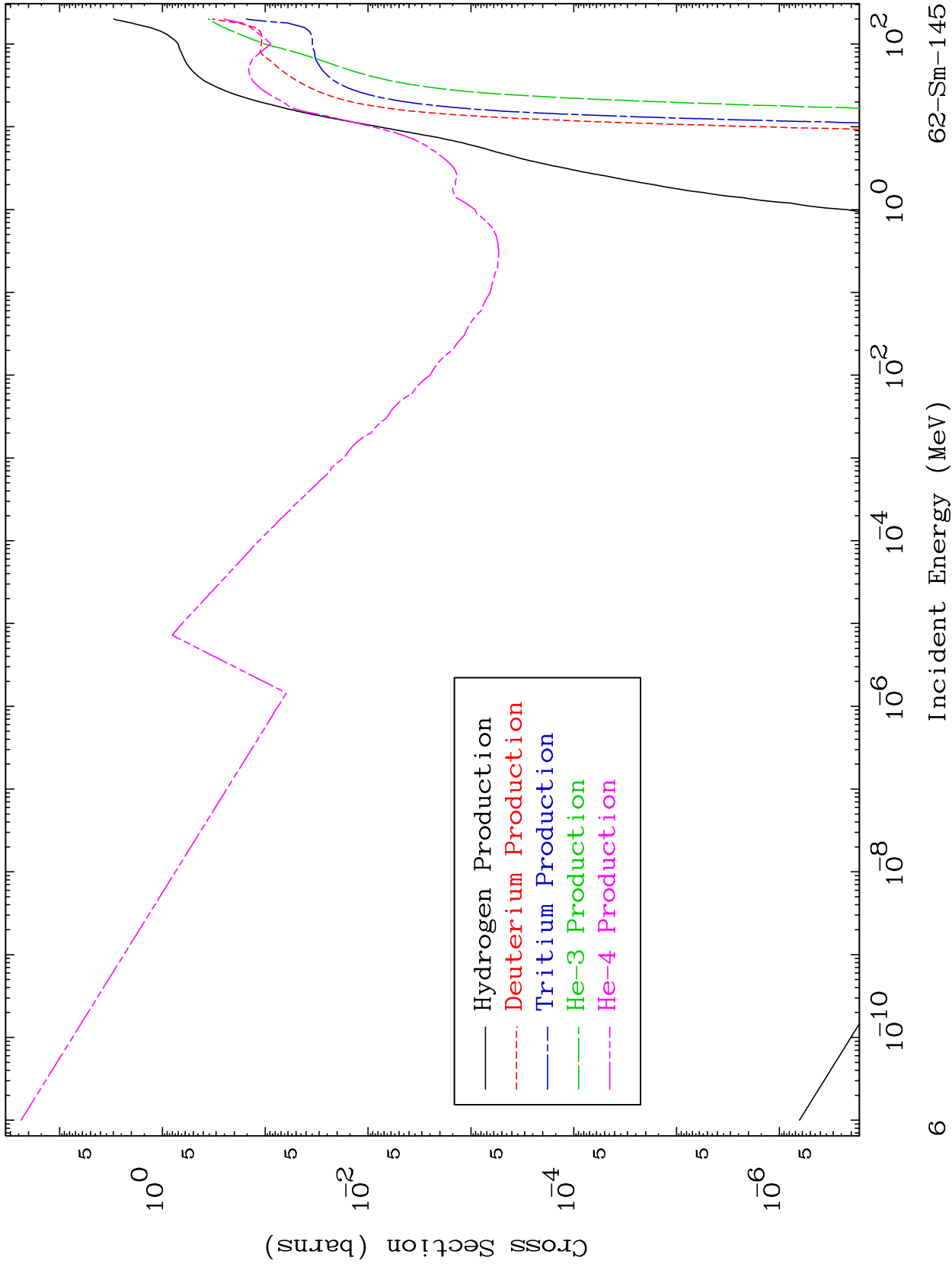
62-Sm-145



MAT 6228

Particle Production  
293 Kelvin Cross Sections

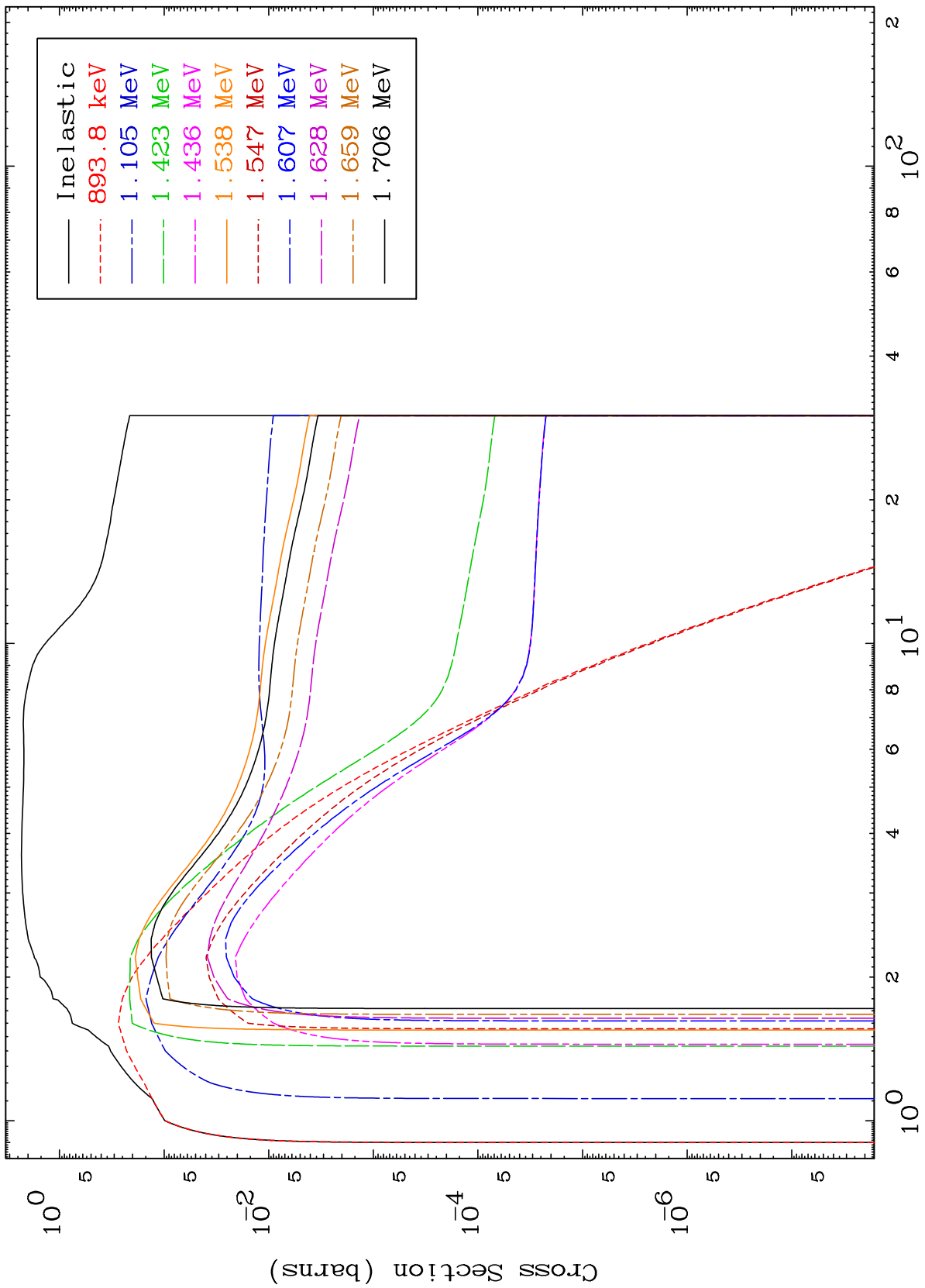
62-Sm-145



MAT 6228

(n,n') Level  
293 Kelvin Cross Sections

62-Sm-145



Incident Energy (MeV)

62-Sm-145

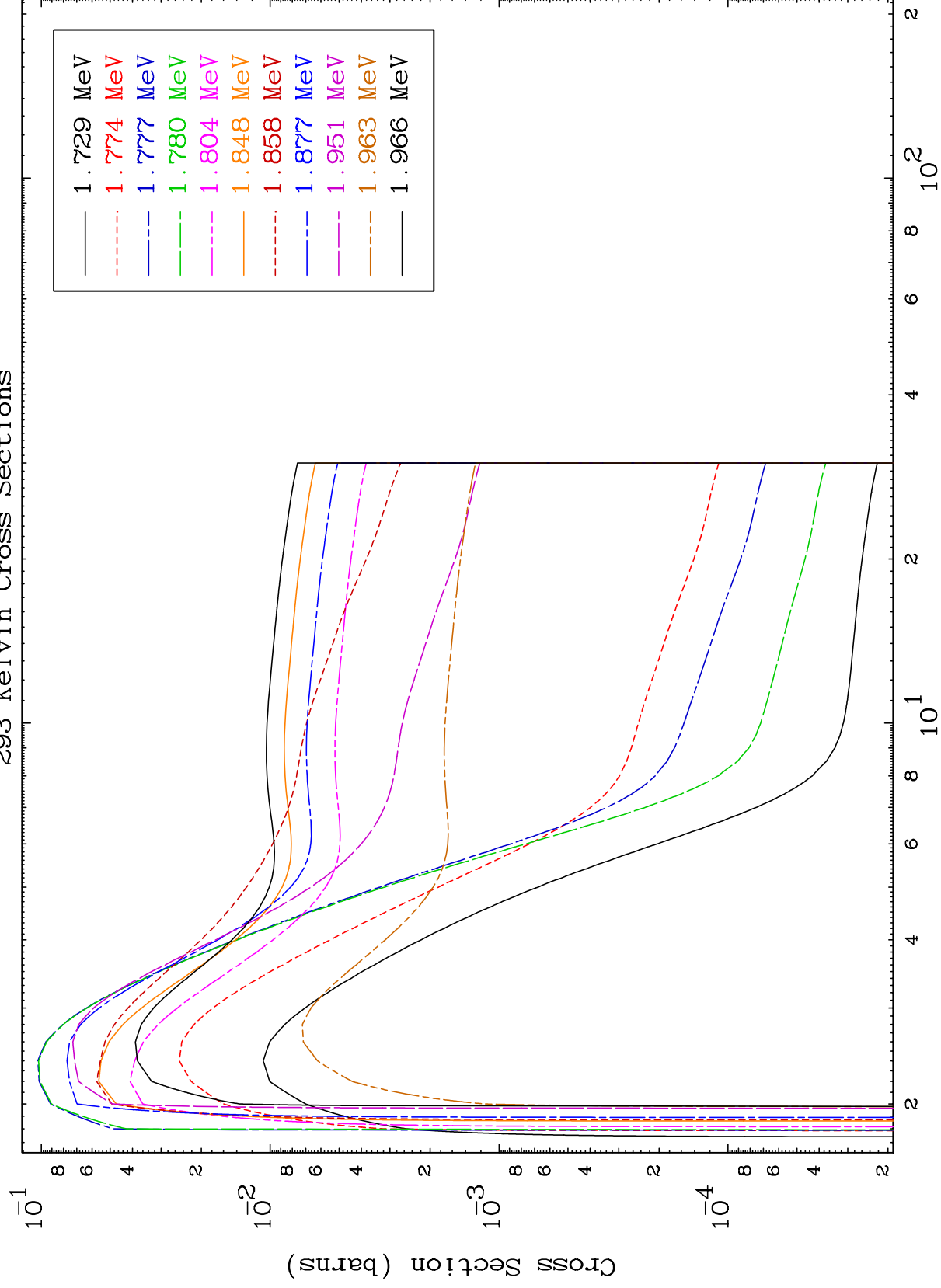
7



MAT 6228

(n,n') Level  
293 Kelvin Cross Sections

62-Sm-145



8

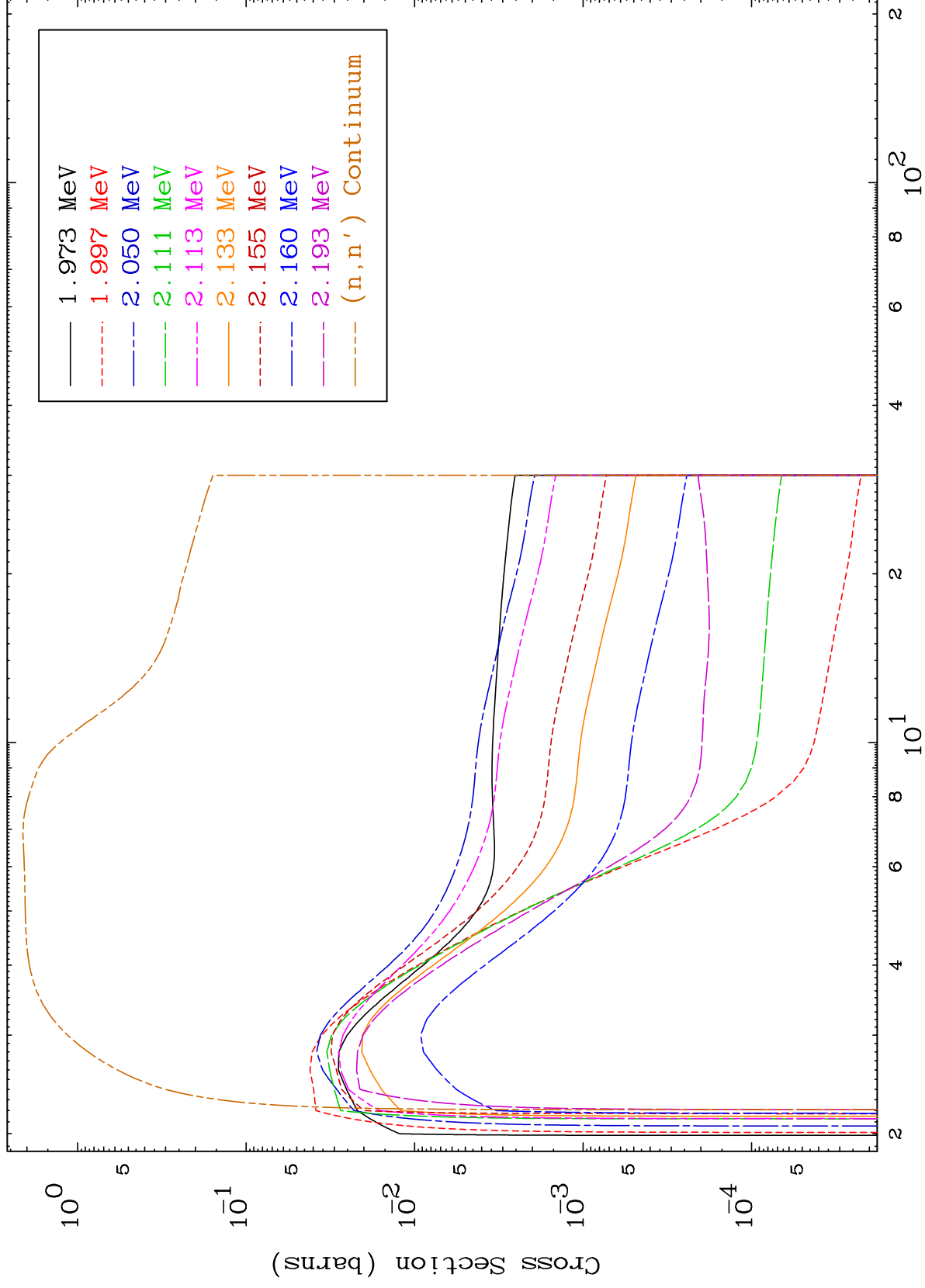
Incident Energy (MeV)

62-Sm-145

MAT 6228

(n,n') Level  
293 Kelvin Cross Sections

62-Sm-145



9

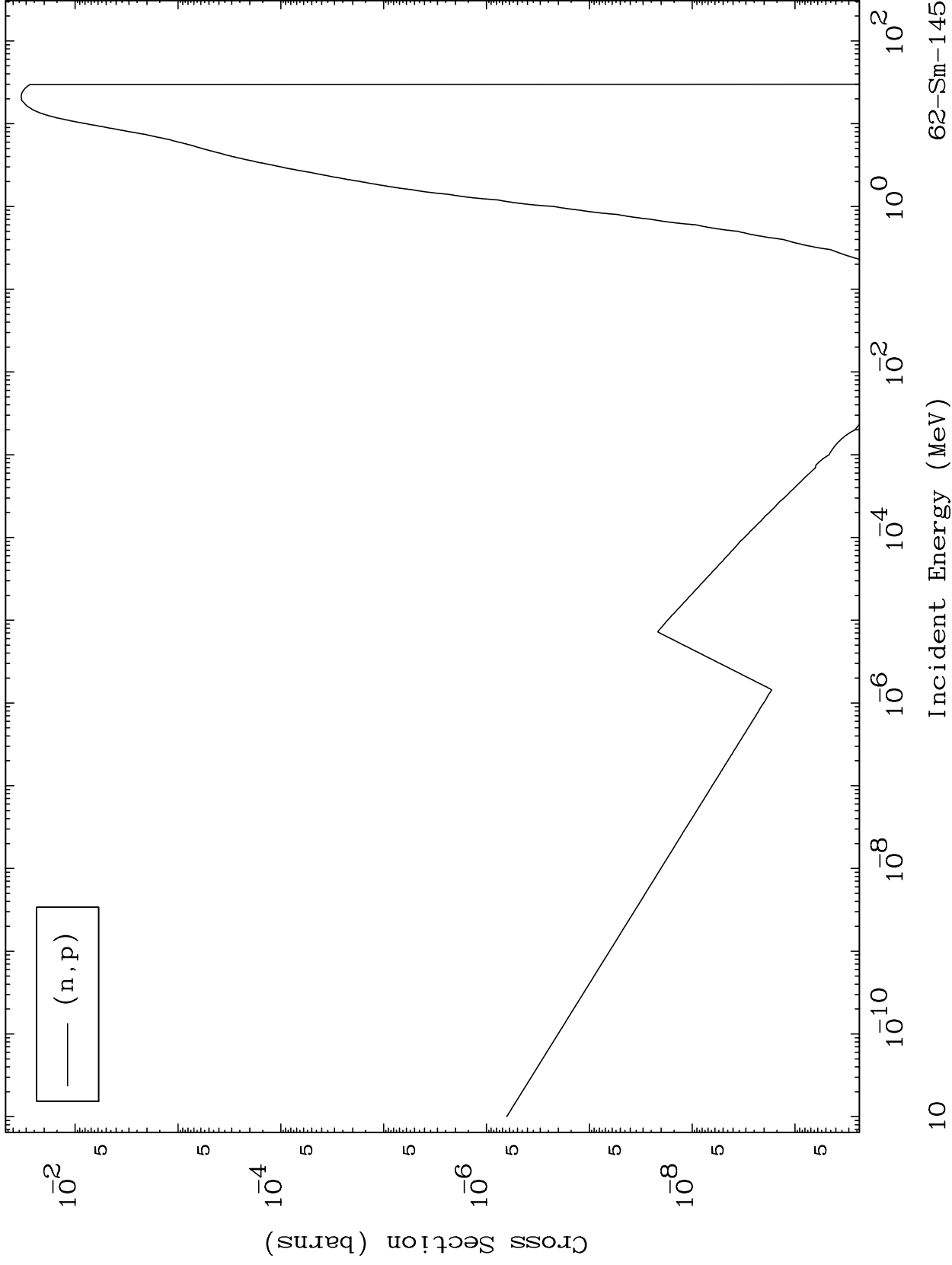
Incident Energy (MeV)

62-Sm-145

MAT 6228

(n,p) Levels  
293 Kelvin Cross Sections

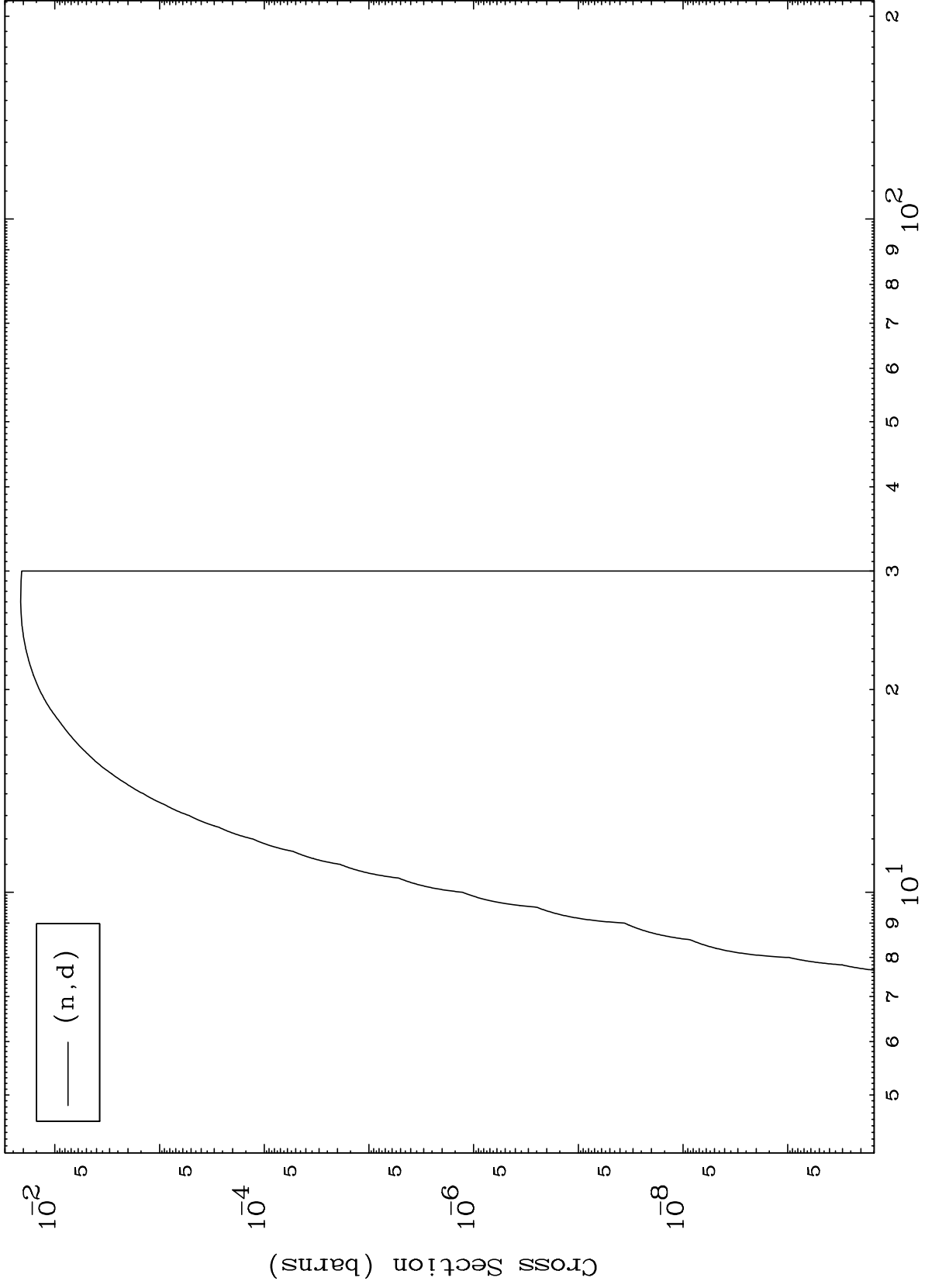
62-Sm-145



MAT 6228

(n,d) Levels  
293 Kelvin Cross Sections

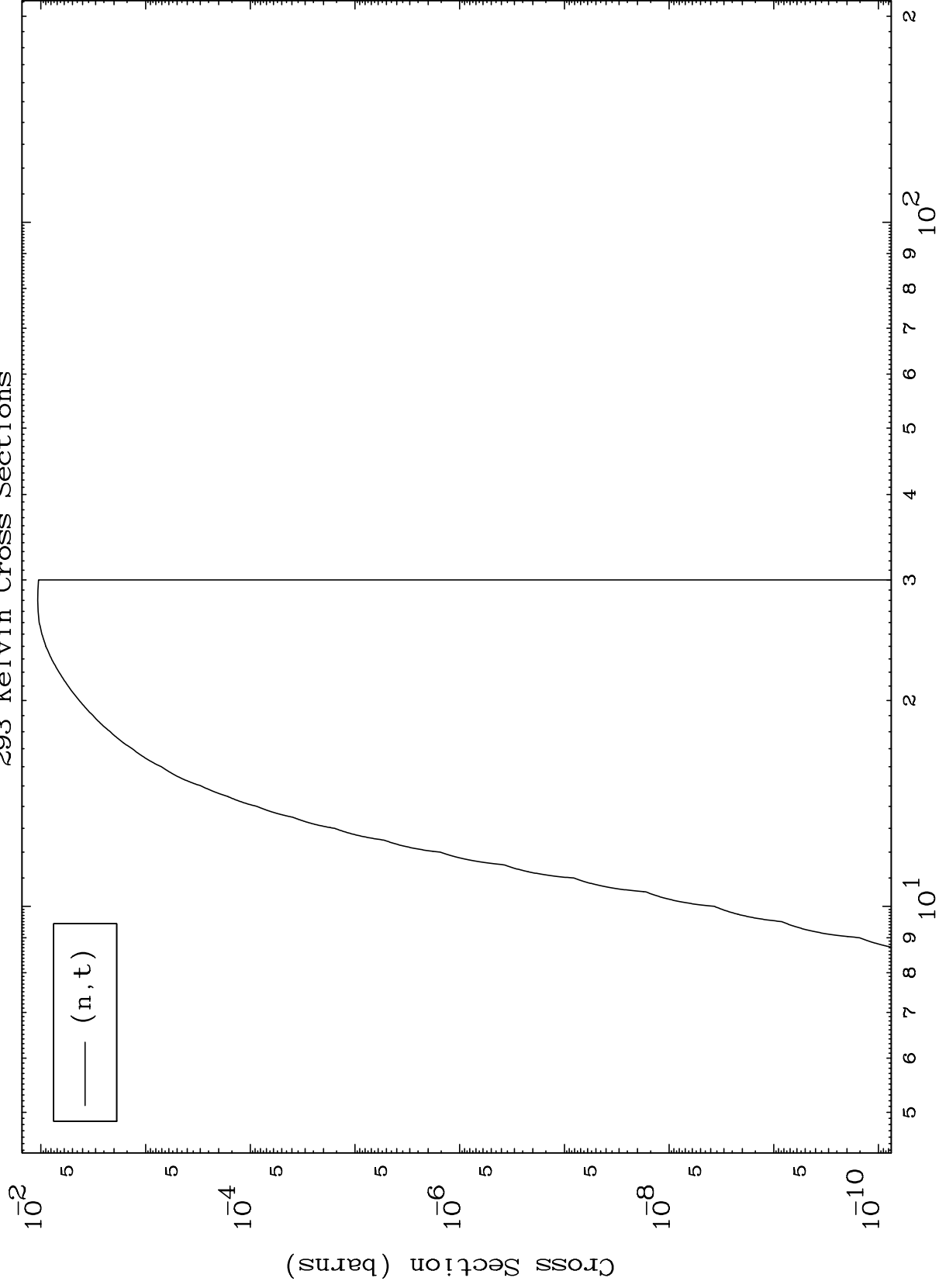
62-Sm-145



MAT 6228

(n,t) Levels  
293 Kelvin Cross Sections

62-Sm-145



12

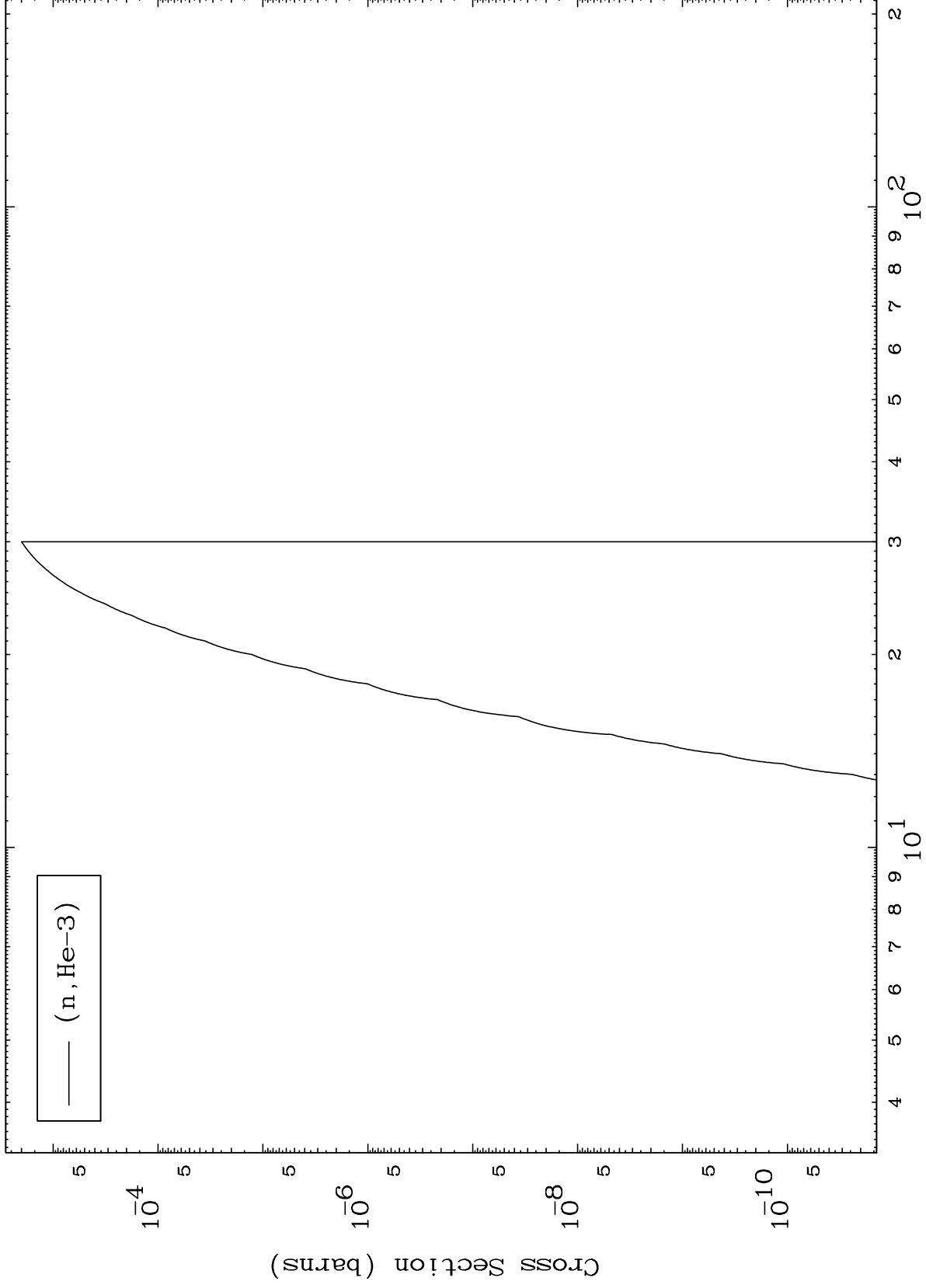
Incident Energy (MeV)

62-Sm-145

MAT 6228

(n,He3) Levels  
293 Kelvin Cross Sections

62-Sm-145



13

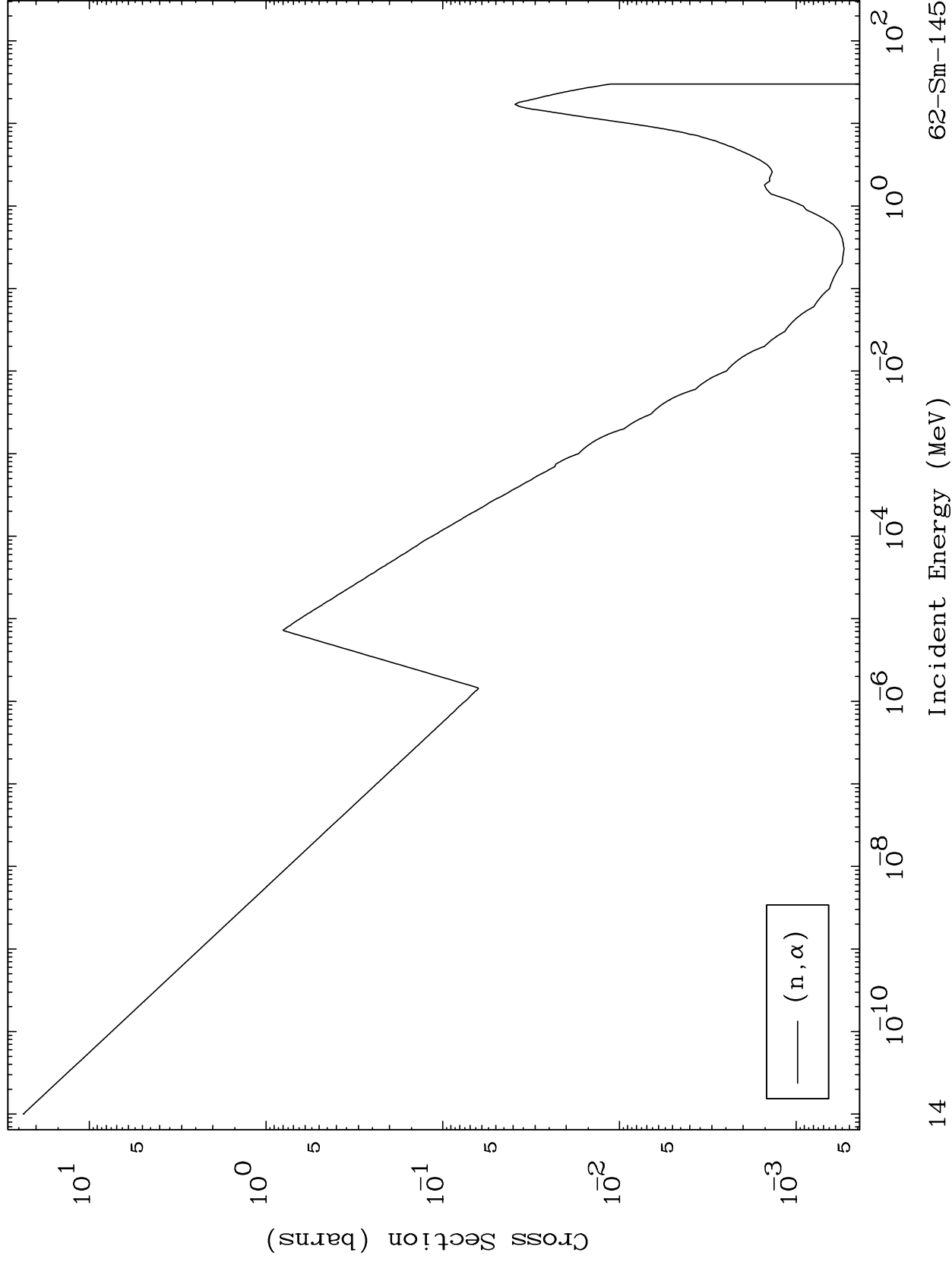
Incident Energy (MeV)

62-Sm-145

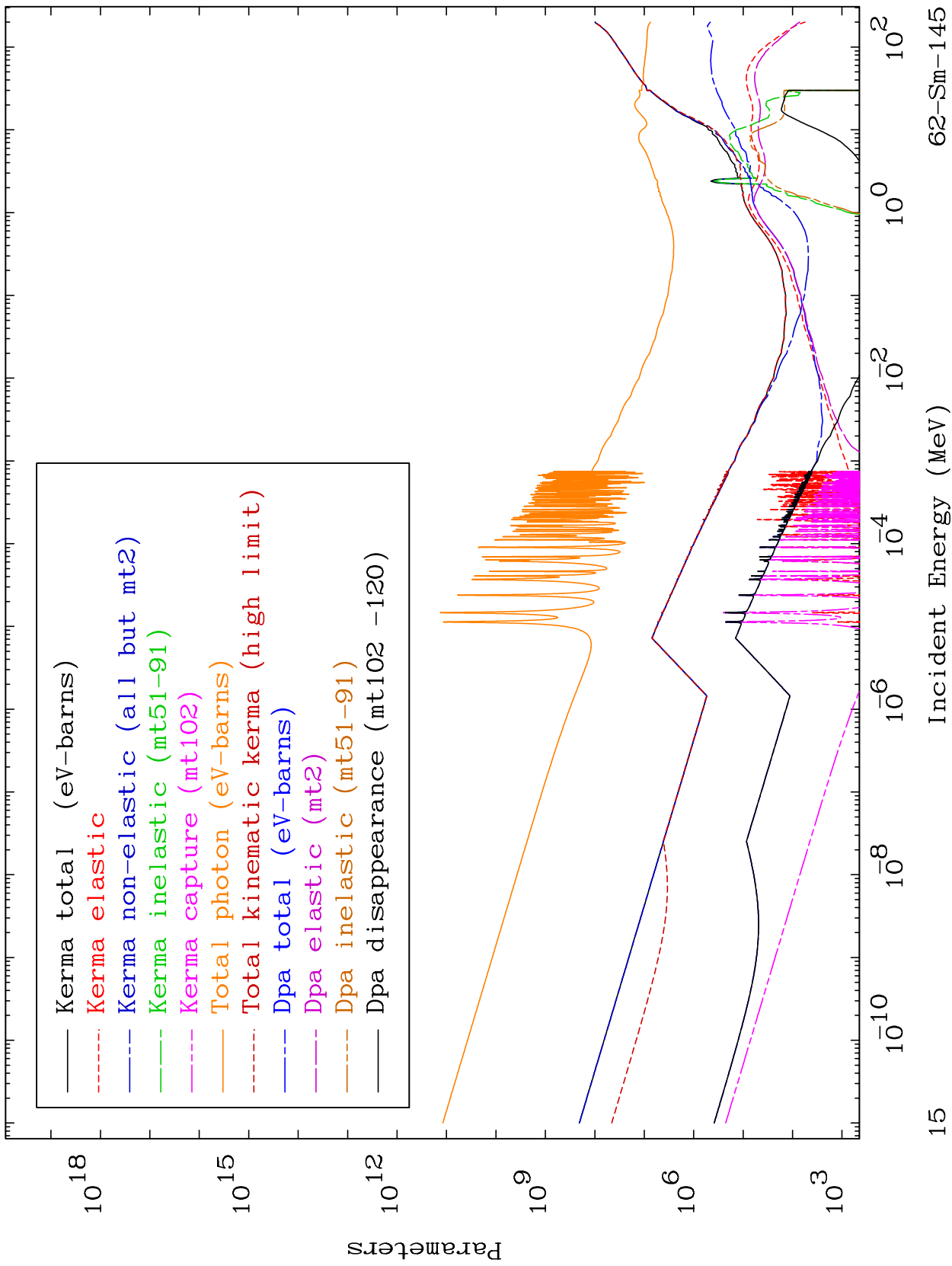
MAT 6228

(n,α) Levels  
293 Kelvin Cross Sections

62-Sm-145



14

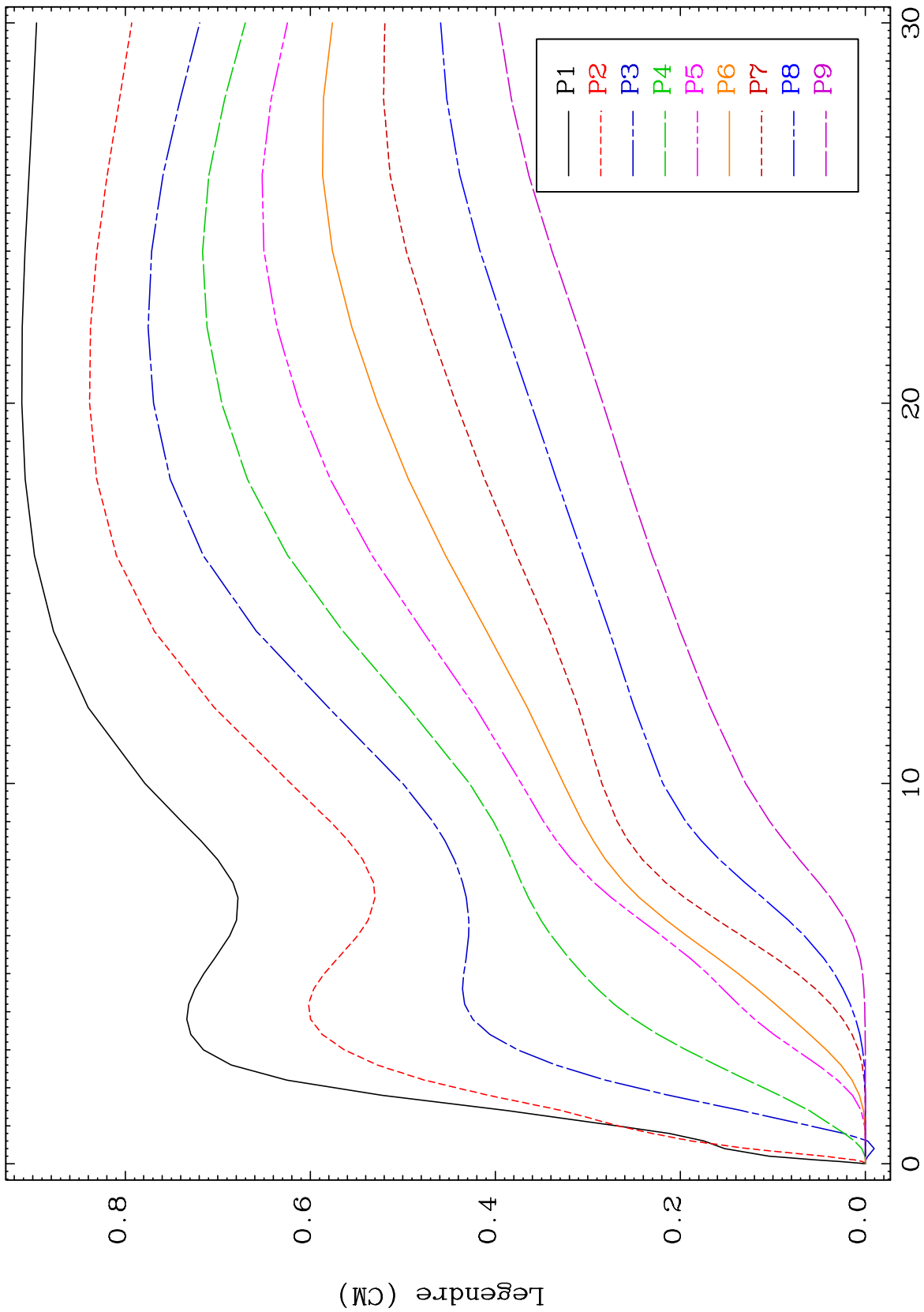




MAT 6228

Elastic Legendre Coefficients

62-Sm-145



16

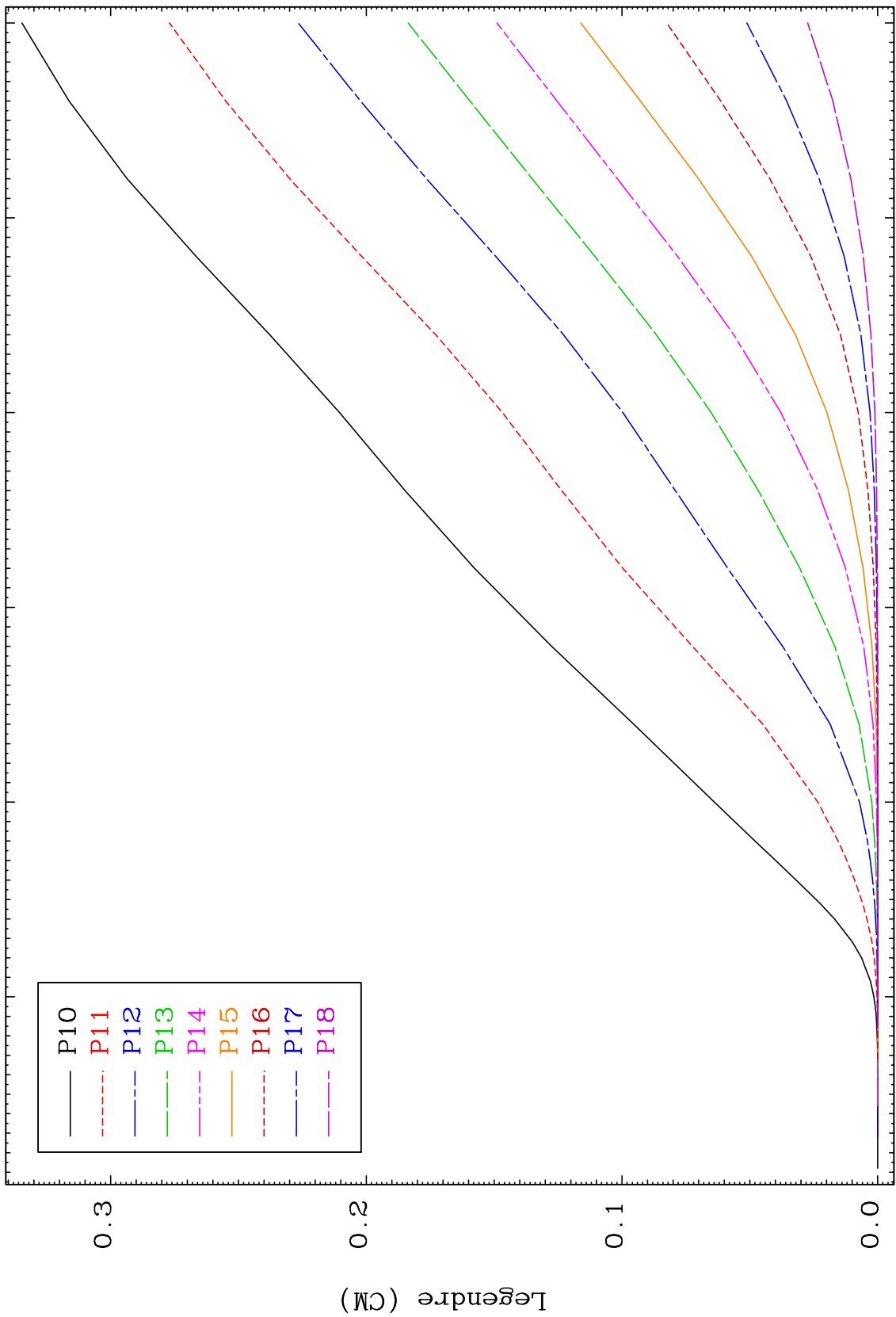
Incident Energy (MeV)

62-Sm-145

MAT 6228

Elastic Legendre Coefficients

62-Sm-145



17

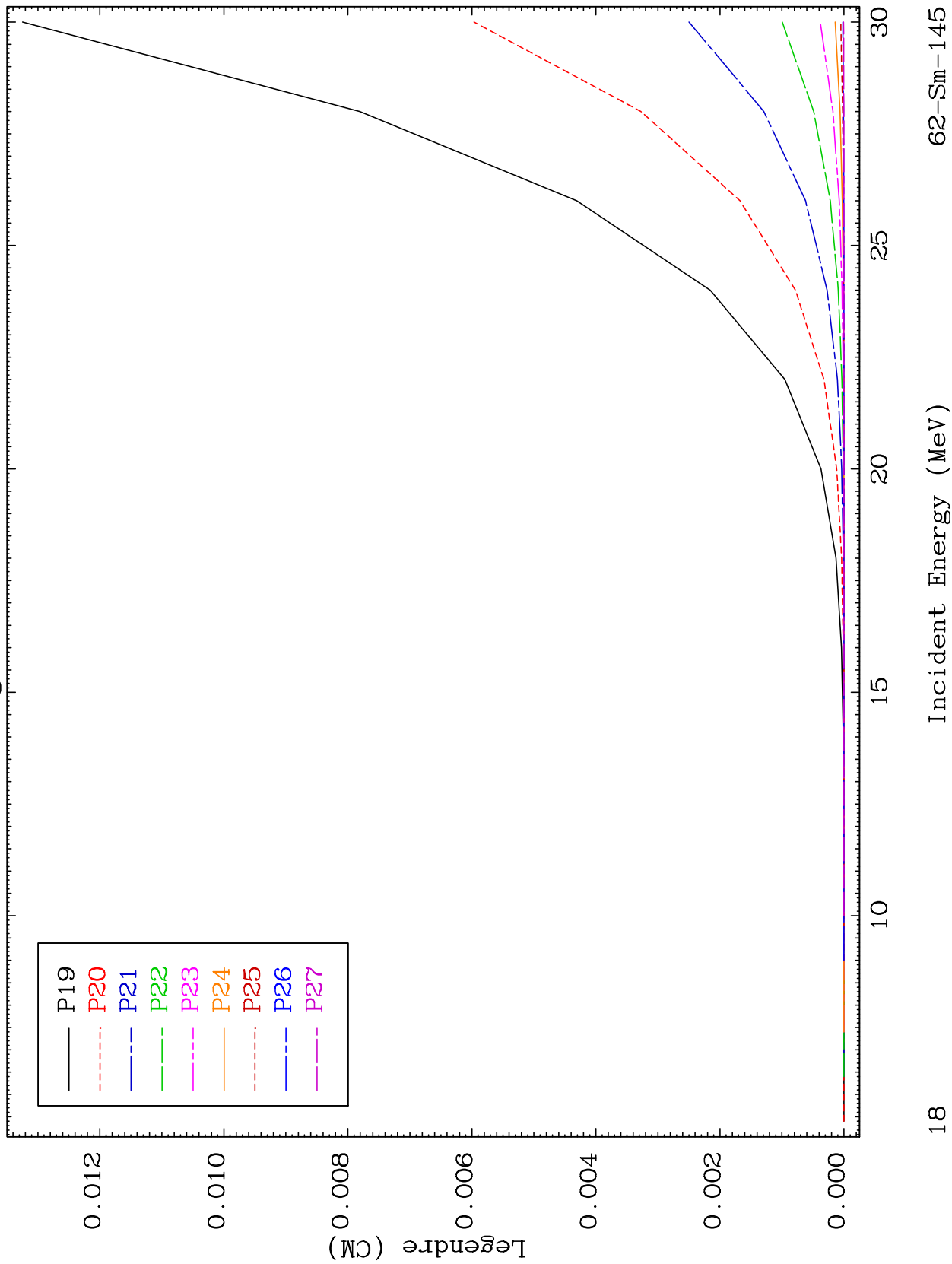
Incident Energy (MeV)

62-Sm-145

MAT 6228

### Elastic Legendre Coefficients

62-Sm-145



18

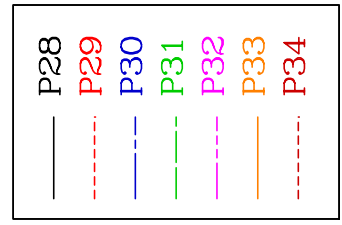
62-Sm-145

Incident Energy (MeV)

MAT 6228

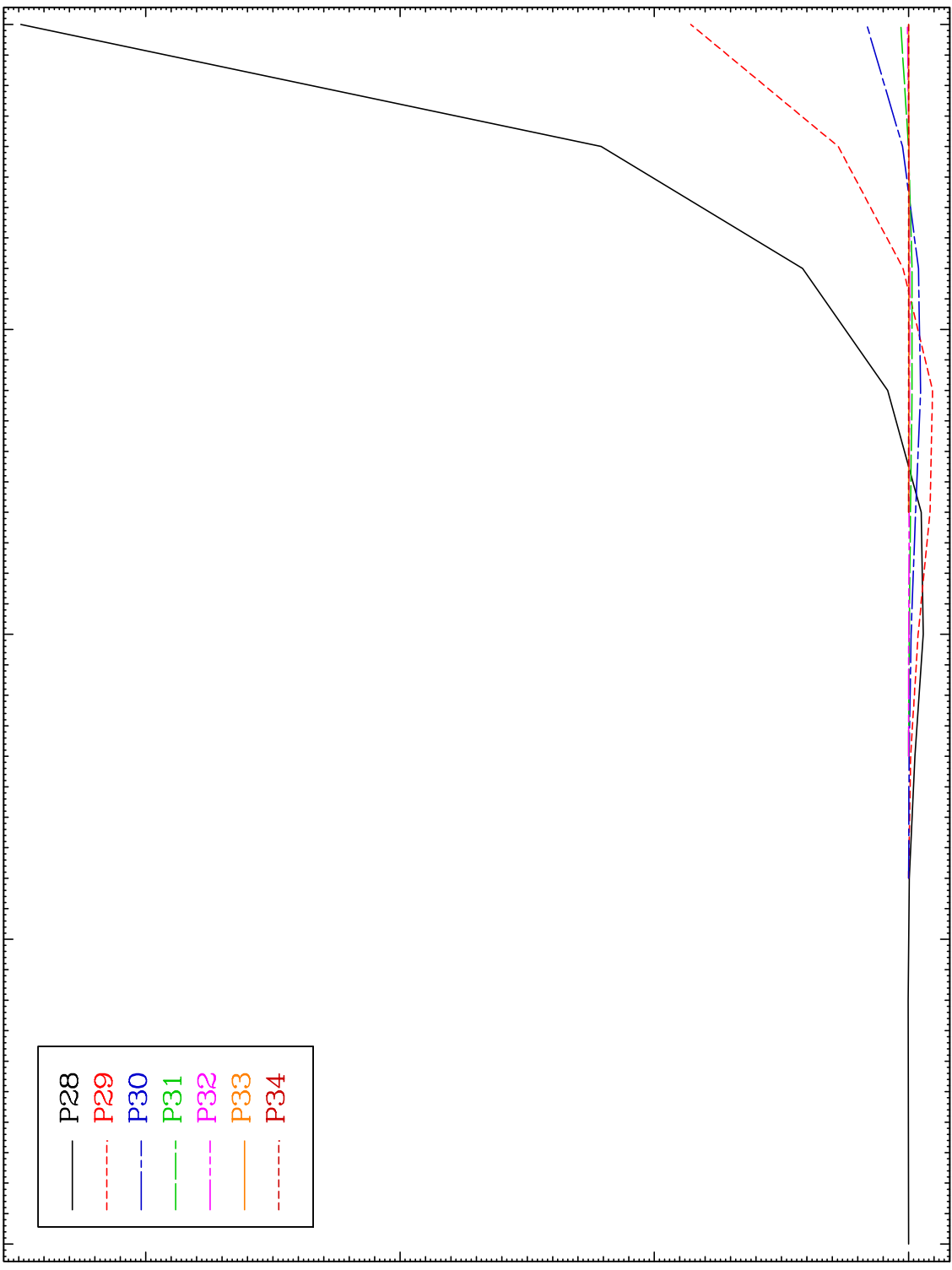
Elastic Legendre Coefficients

62-Sm-145



$\times 10^{-6}$

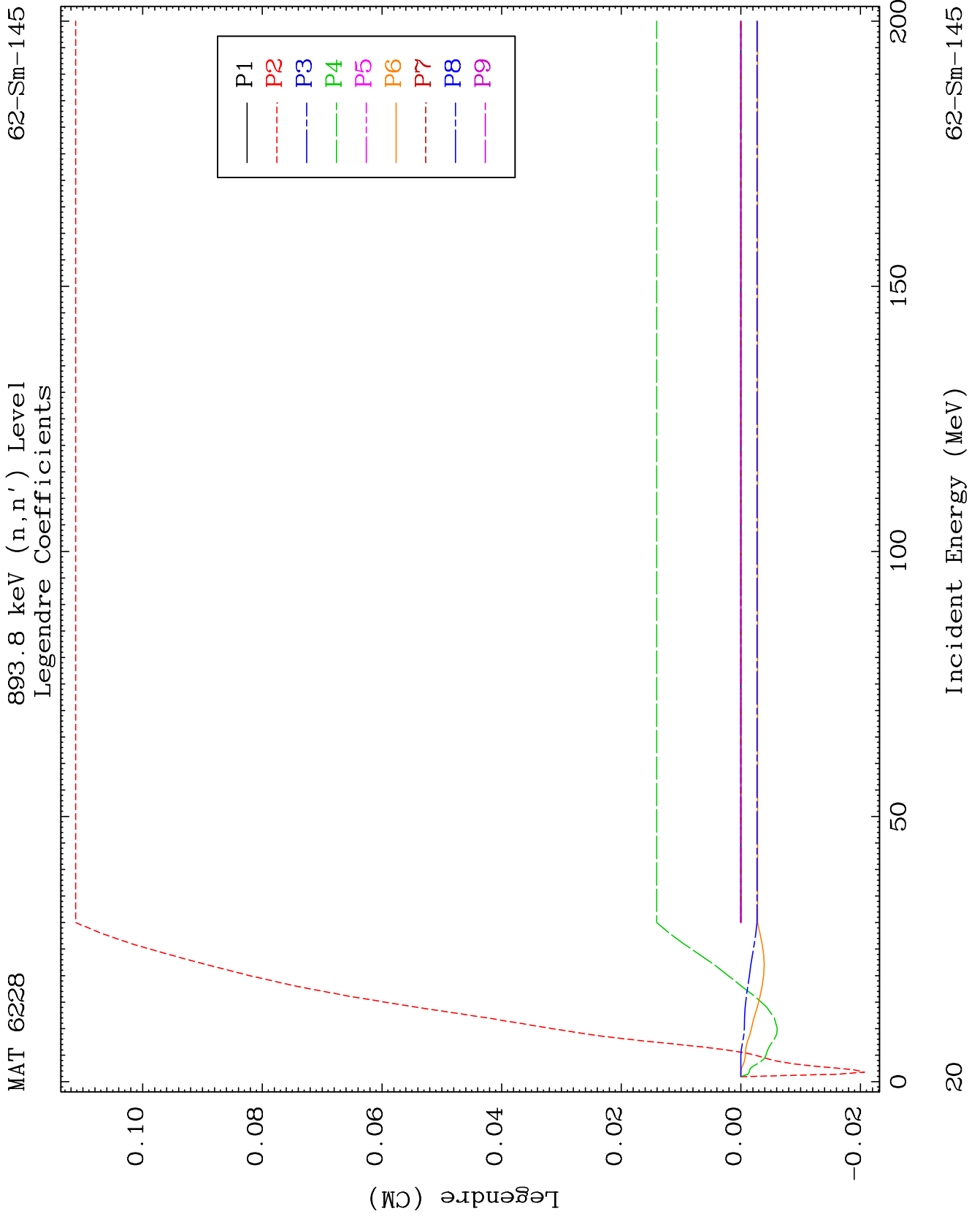
Legendre (CM)

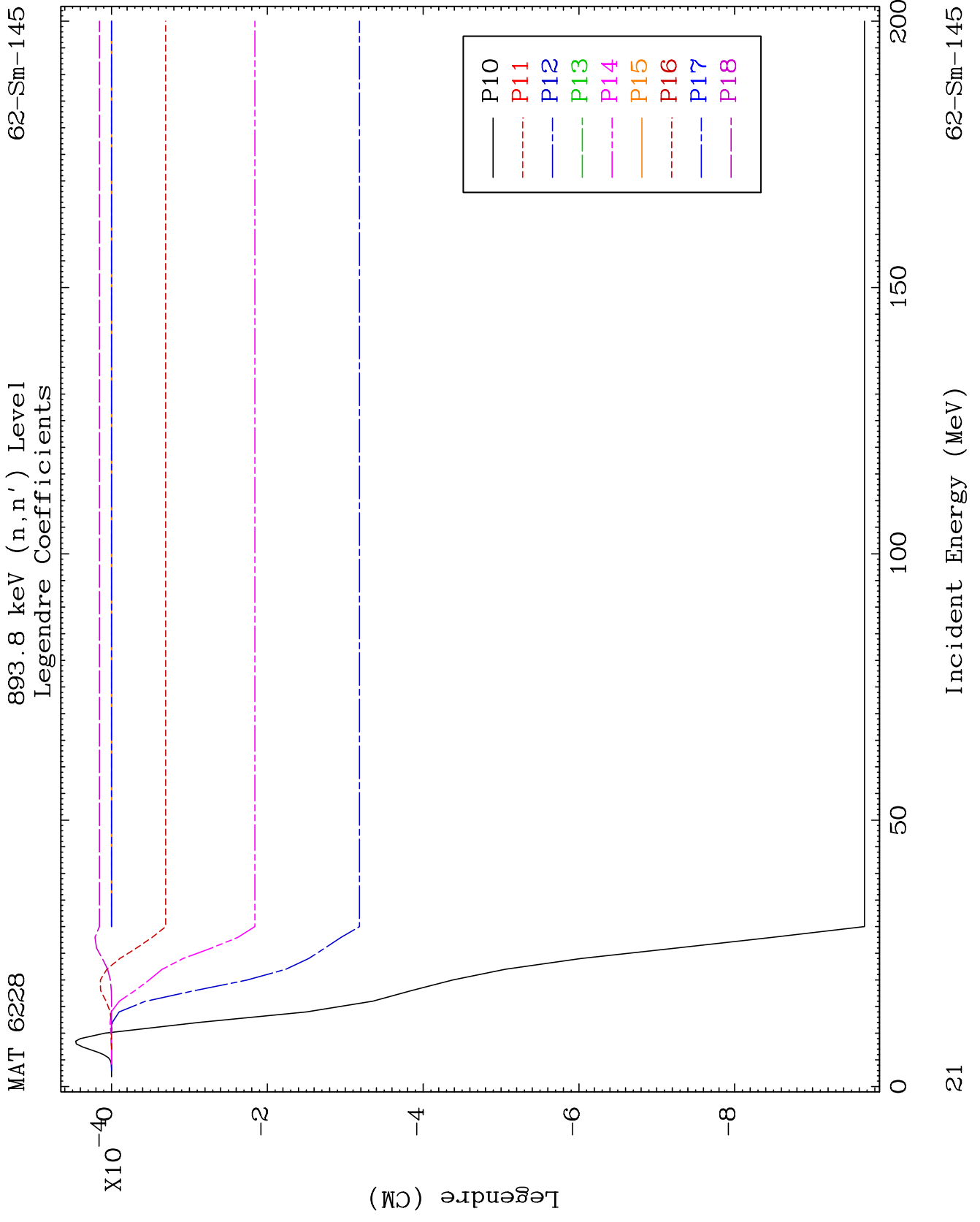


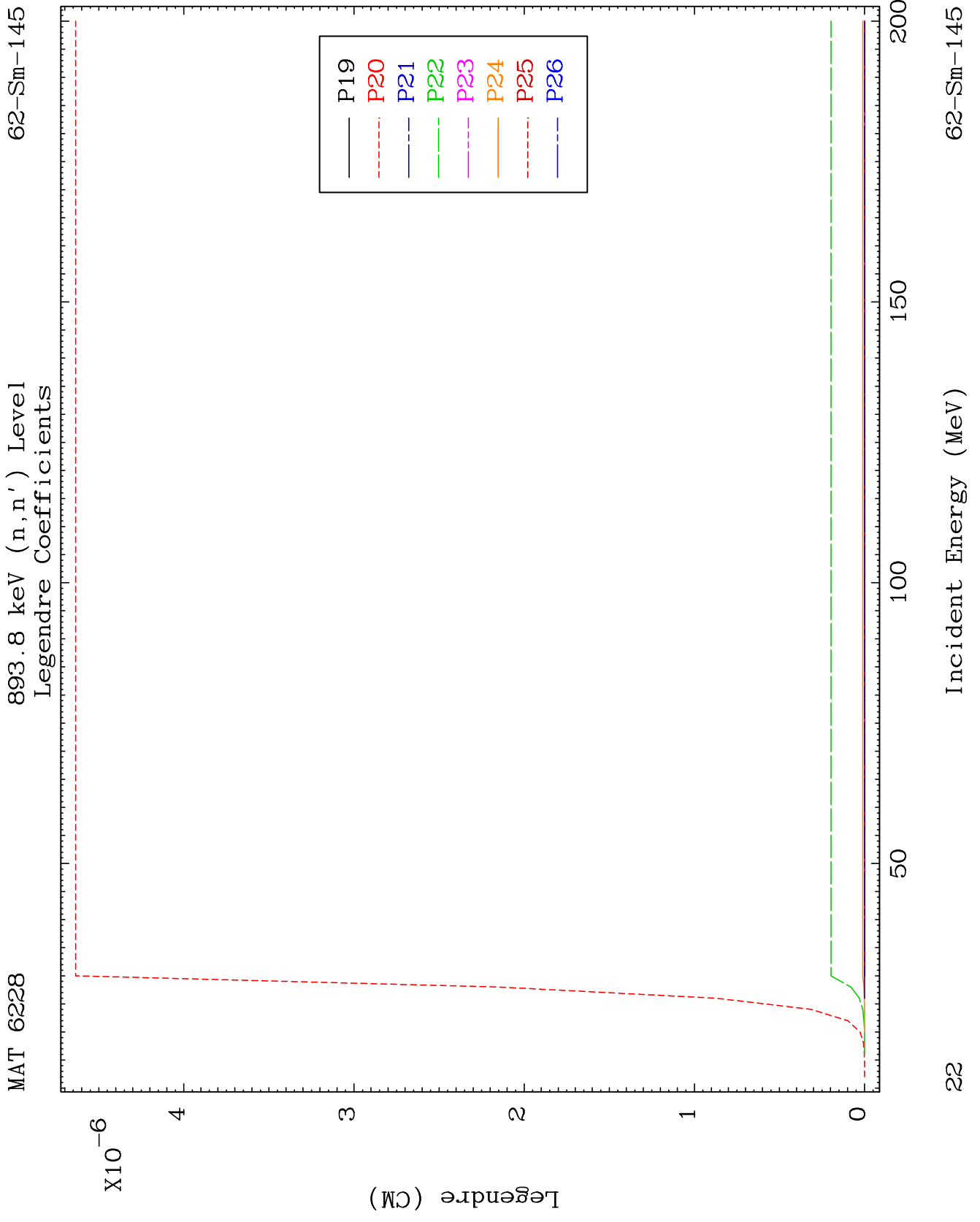
10

Incident Energy (MeV)

62-Sm-145



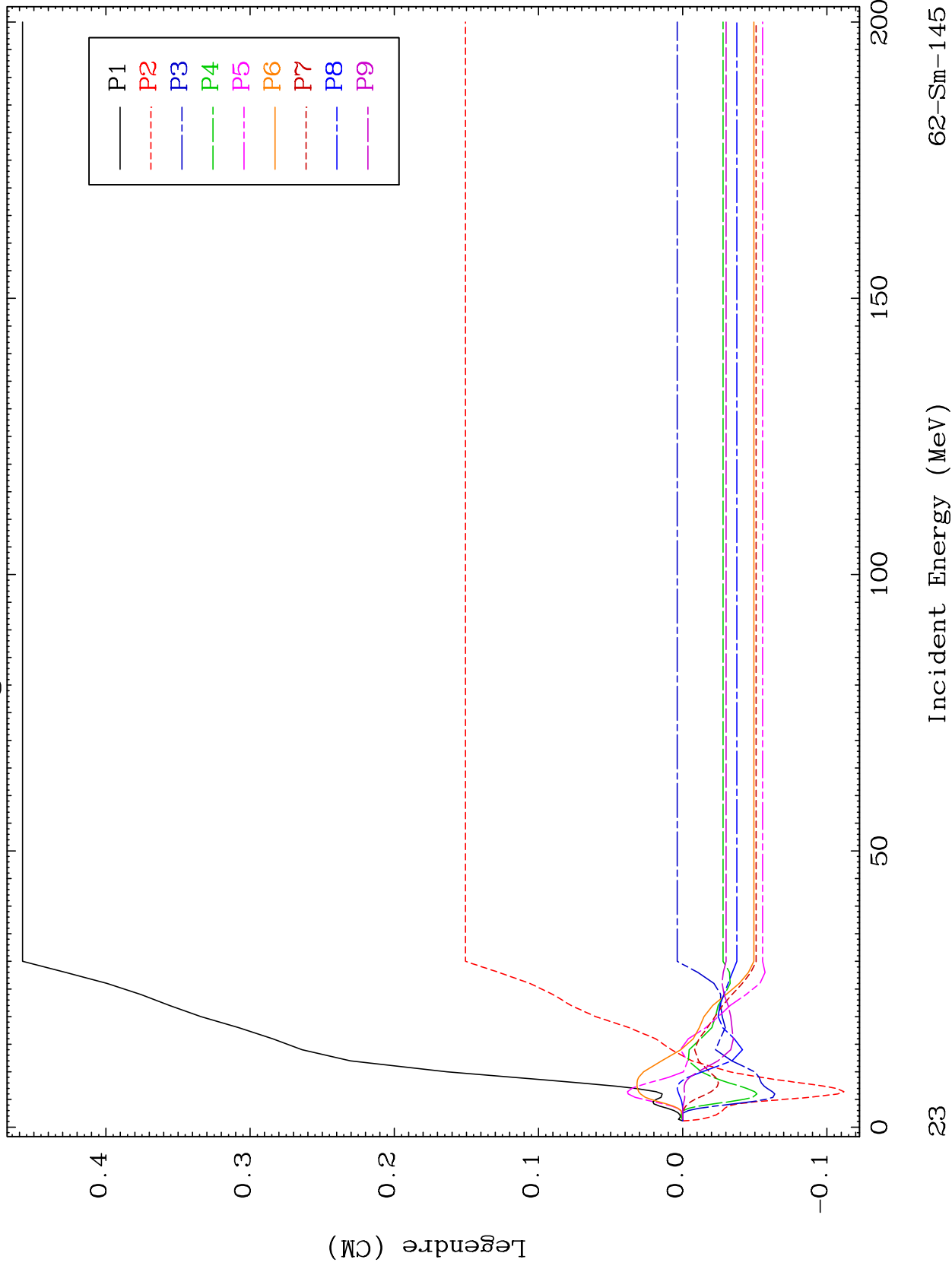




MAT 6228

1.105 MeV (n,n') Level  
Legendre Coefficients

62-Sm-145



62-Sm-145

Incident Energy (MeV)

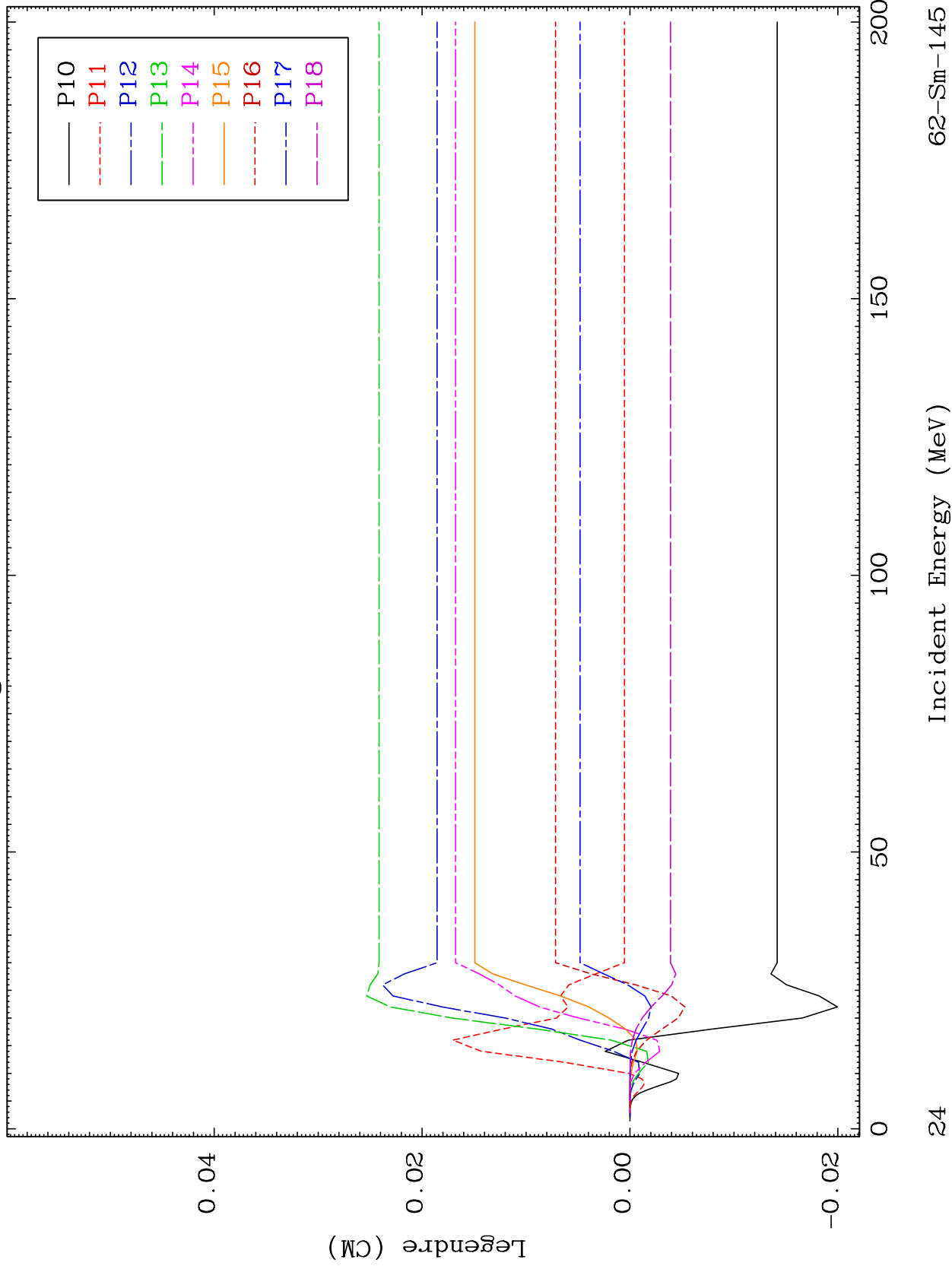
23



MAT 6228

1.105 MeV (n,n') Level  
Legendre Coefficients

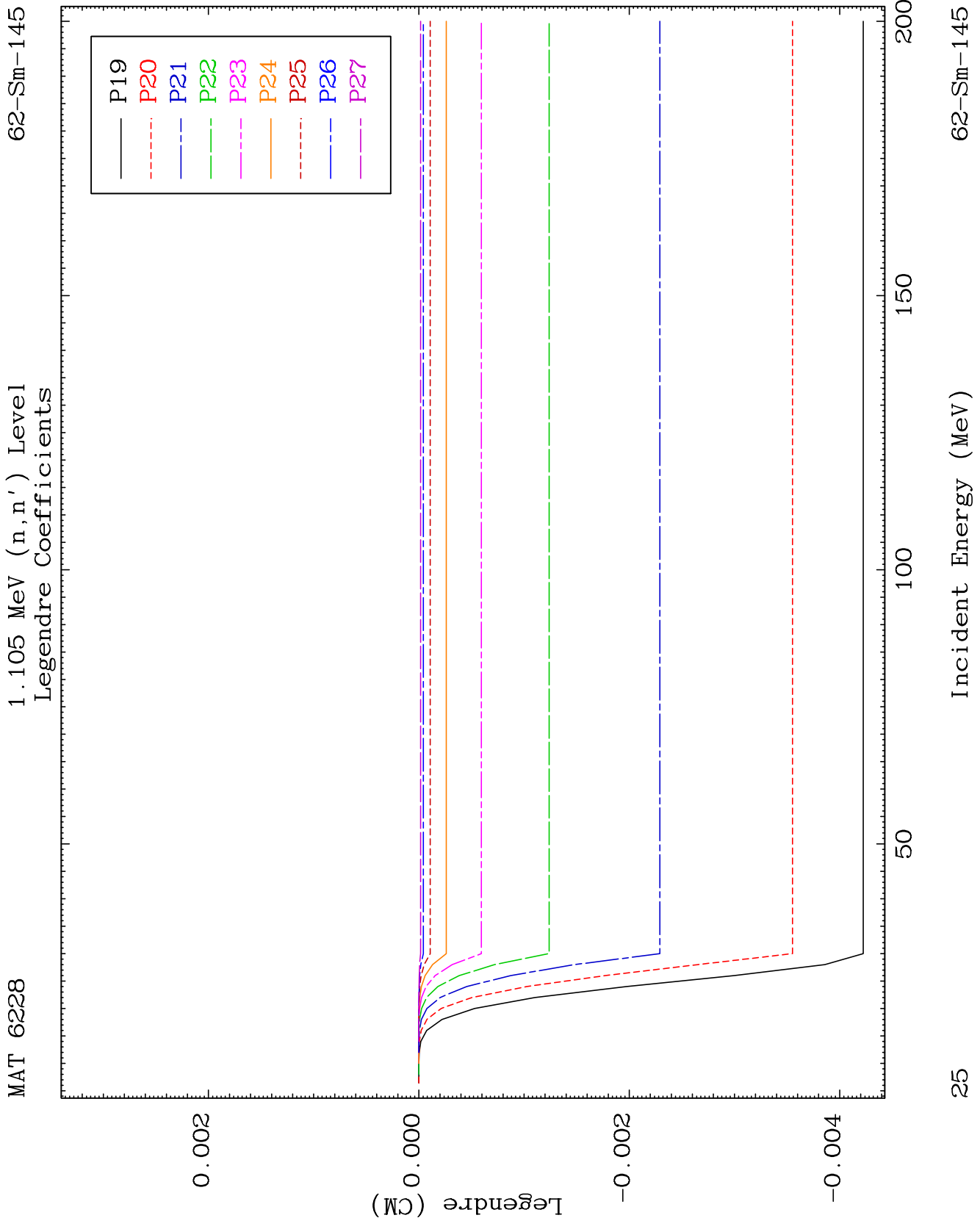
62-Sm-145

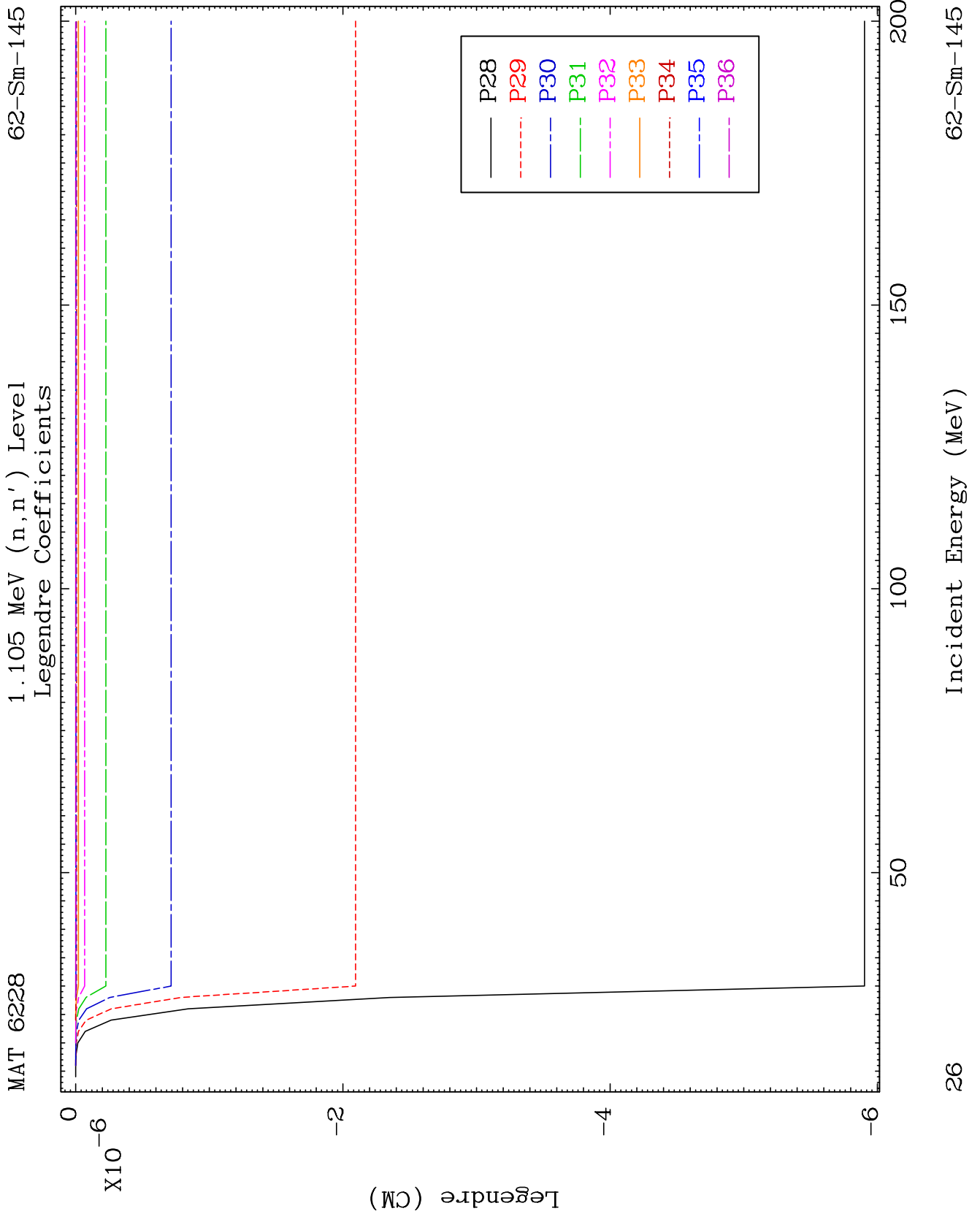


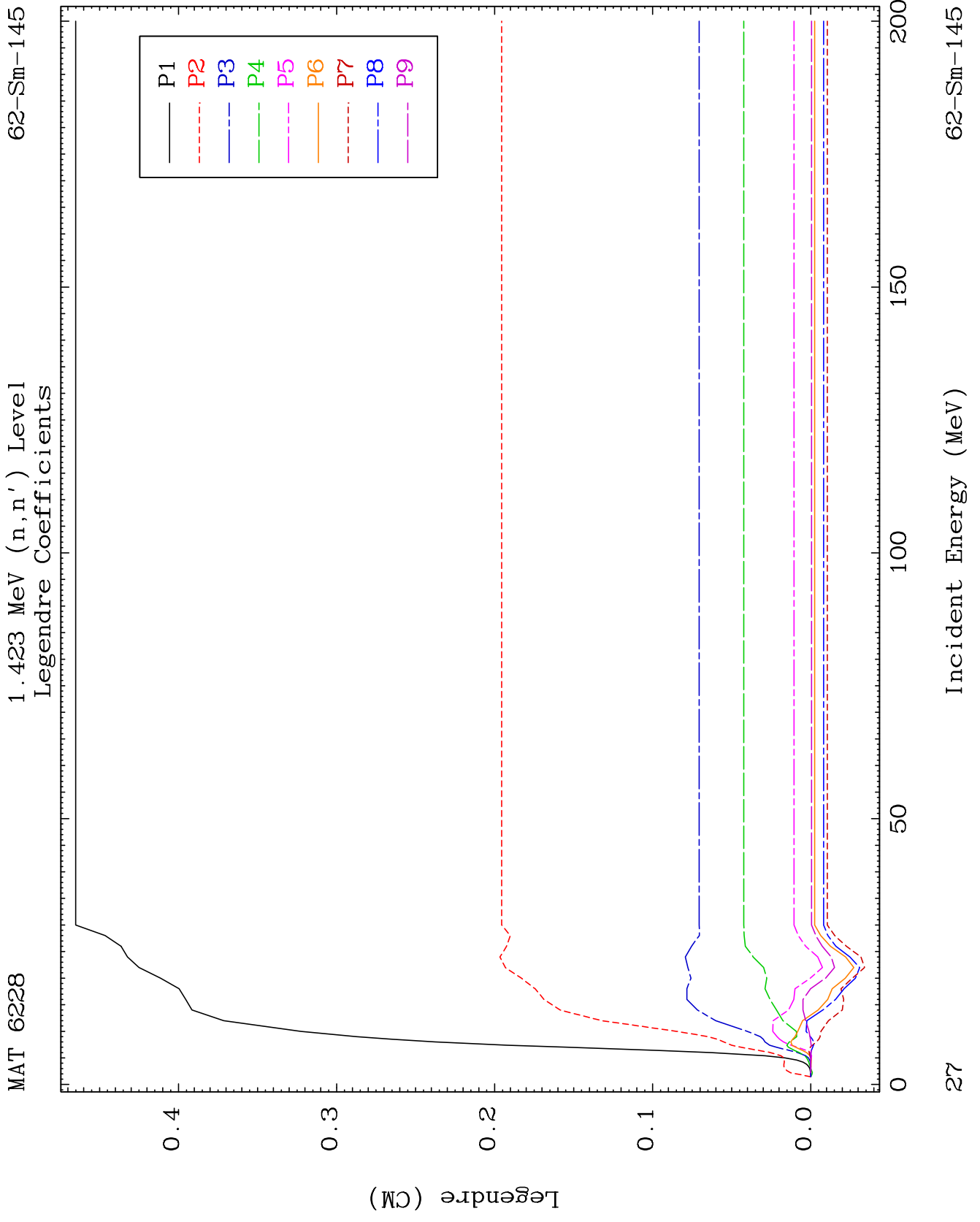
62-Sm-145

Incident Energy (MeV)

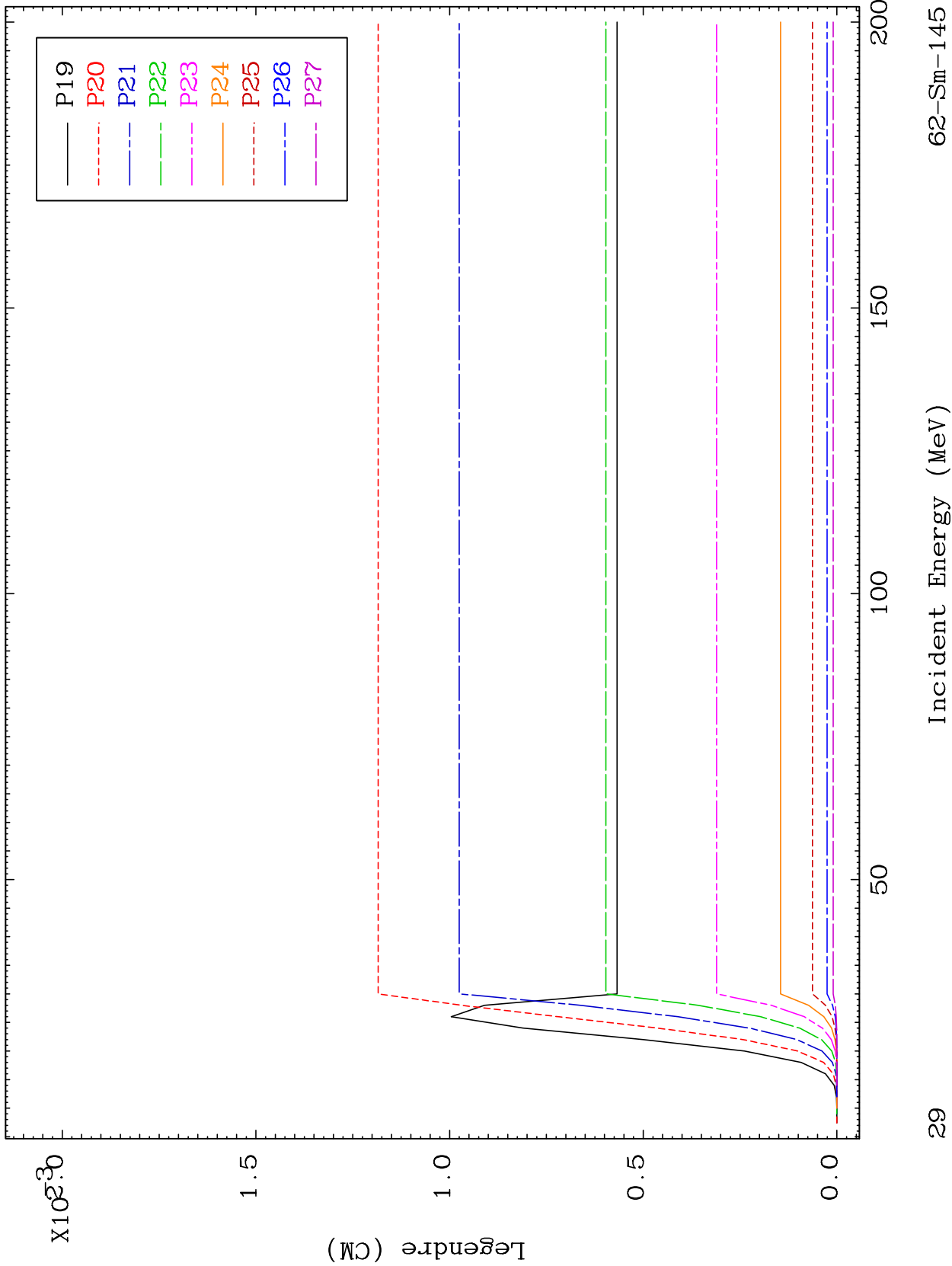
24







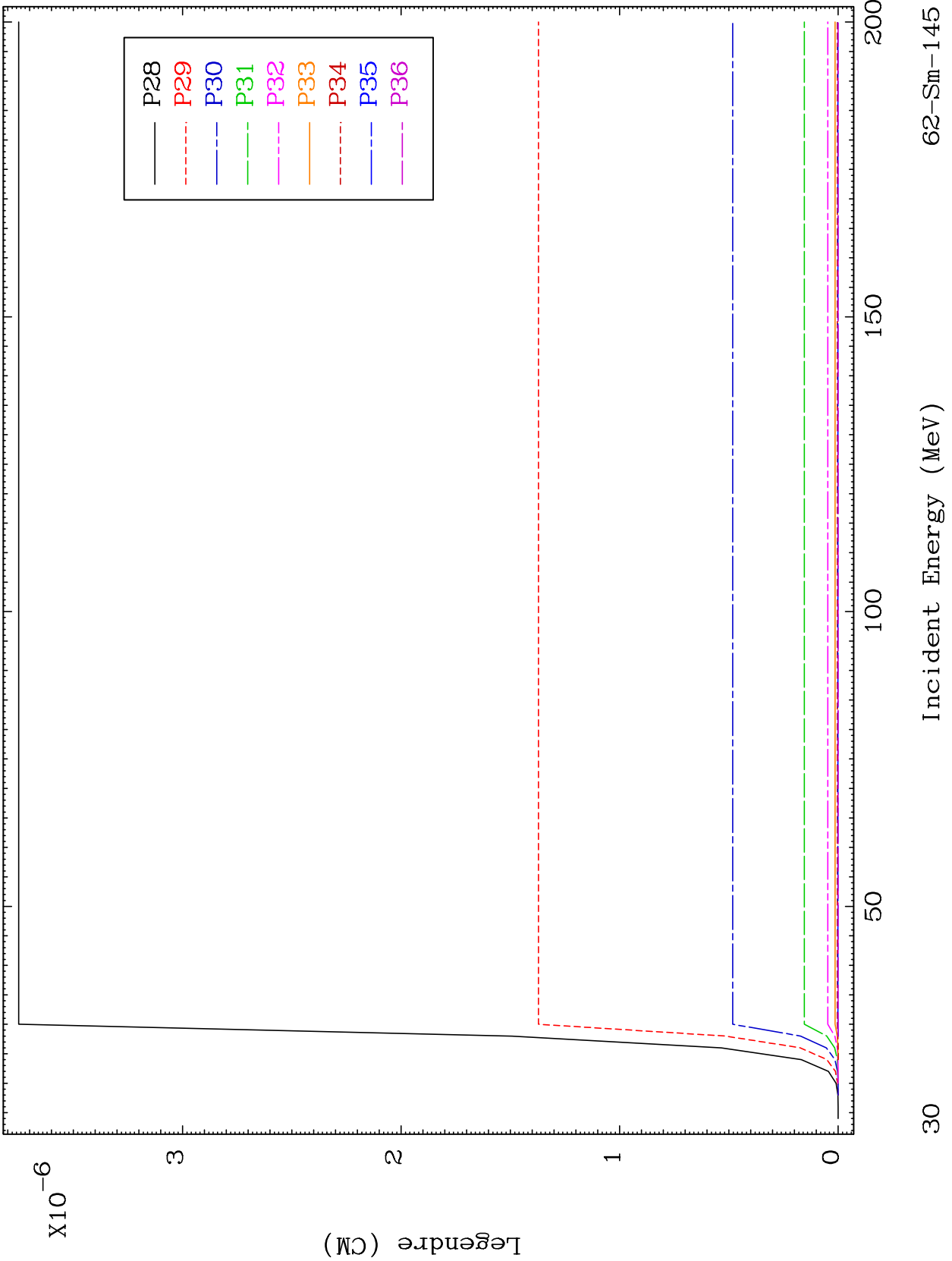




MAT 6228

1.423 MeV (n,n') Level  
Legendre Coefficients

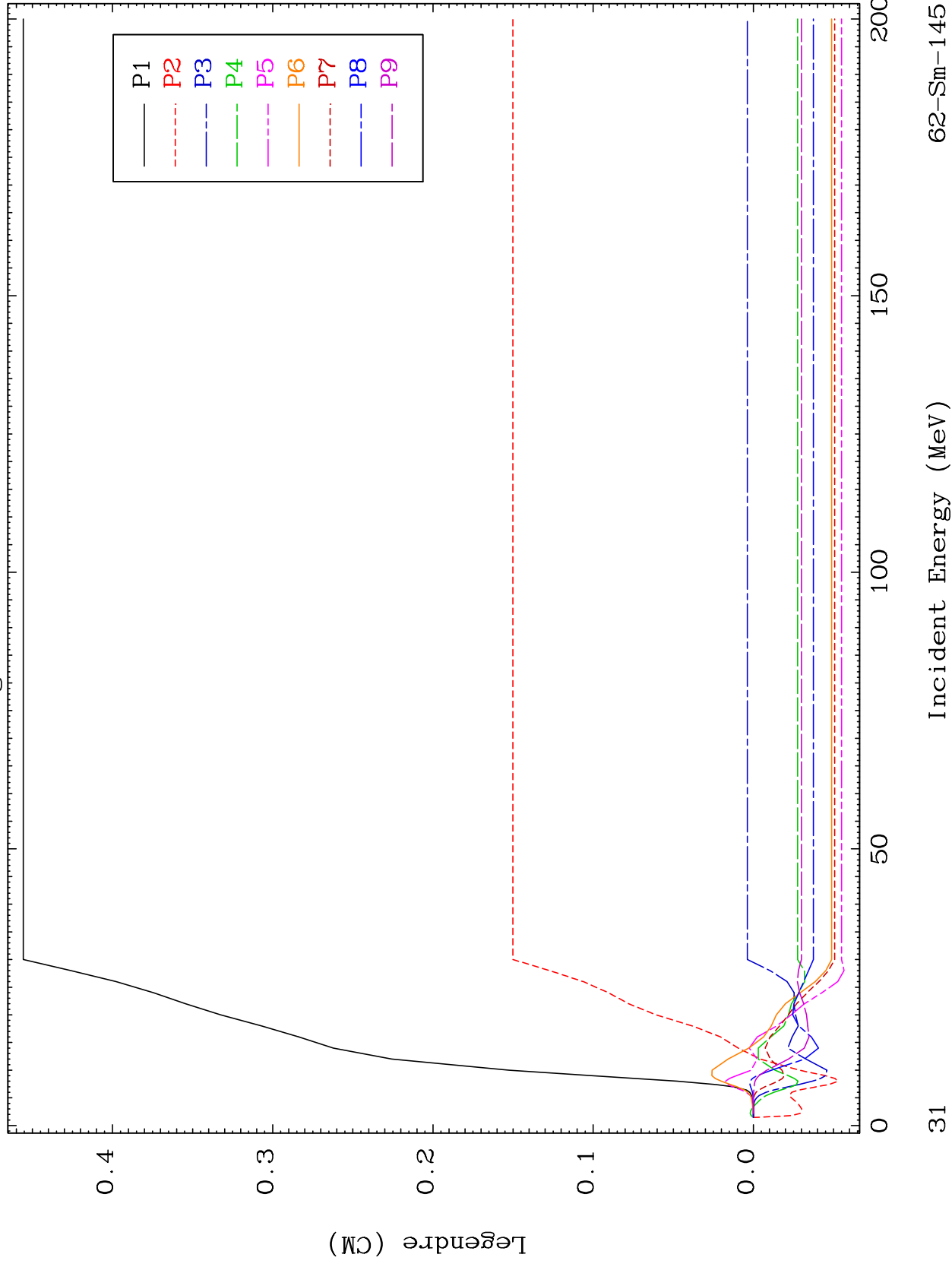
62-Sm-145



MAT 6228

1.436 MeV (n,n') Level  
Legendre Coefficients

62-Sm-145

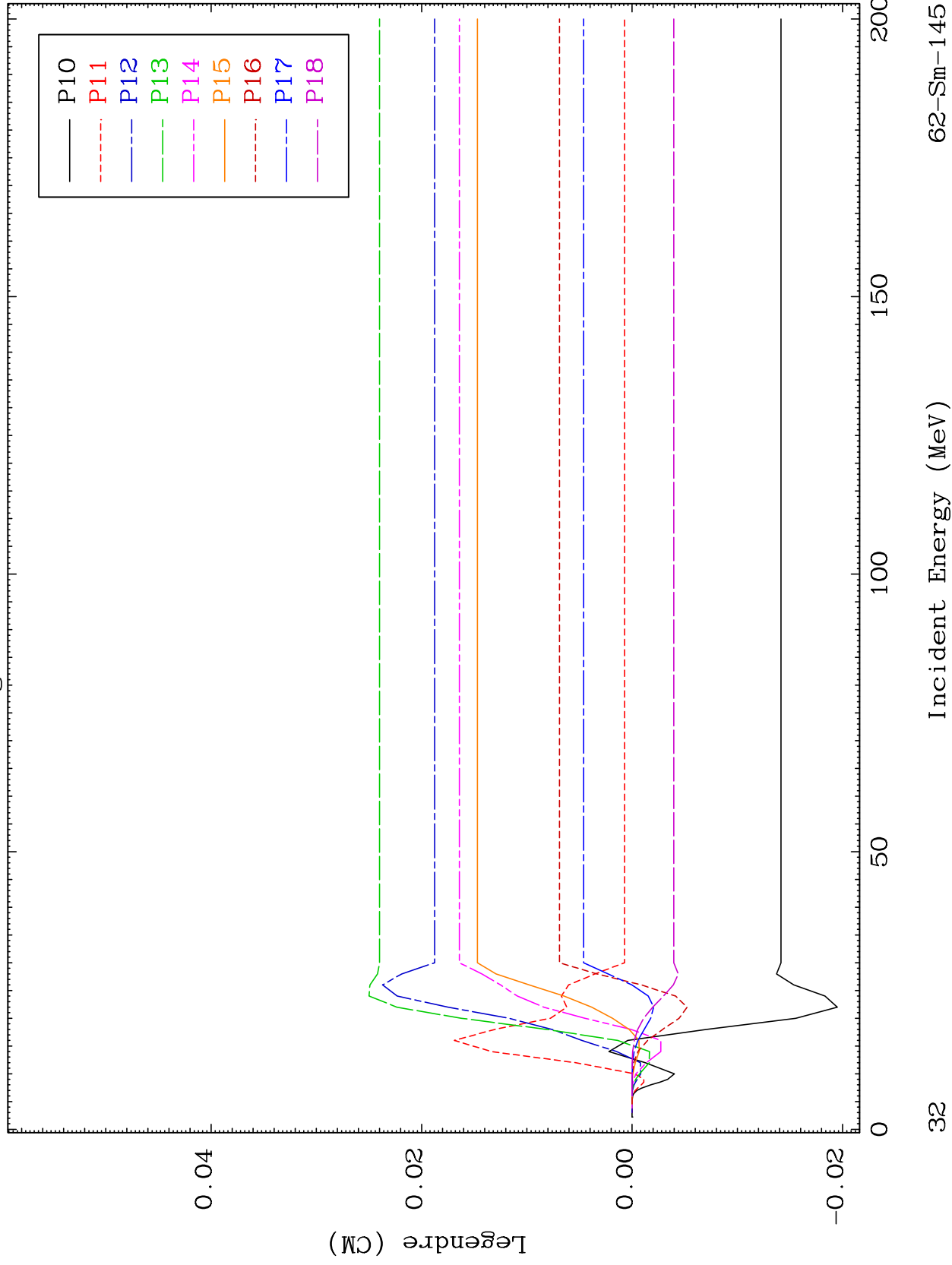




MAT 6228

1.436 MeV (n,n') Level  
Legendre Coefficients

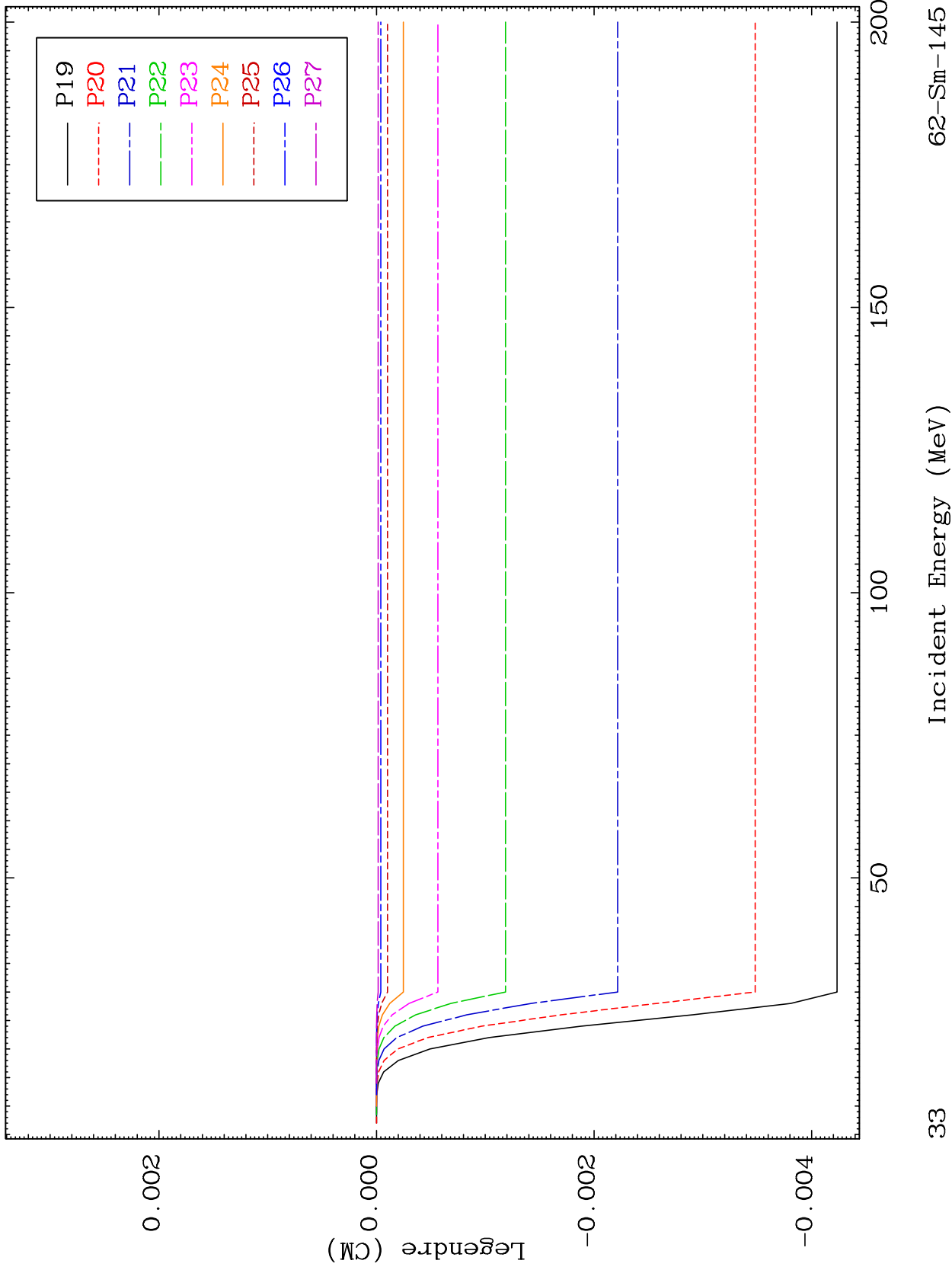
62-Sm-145

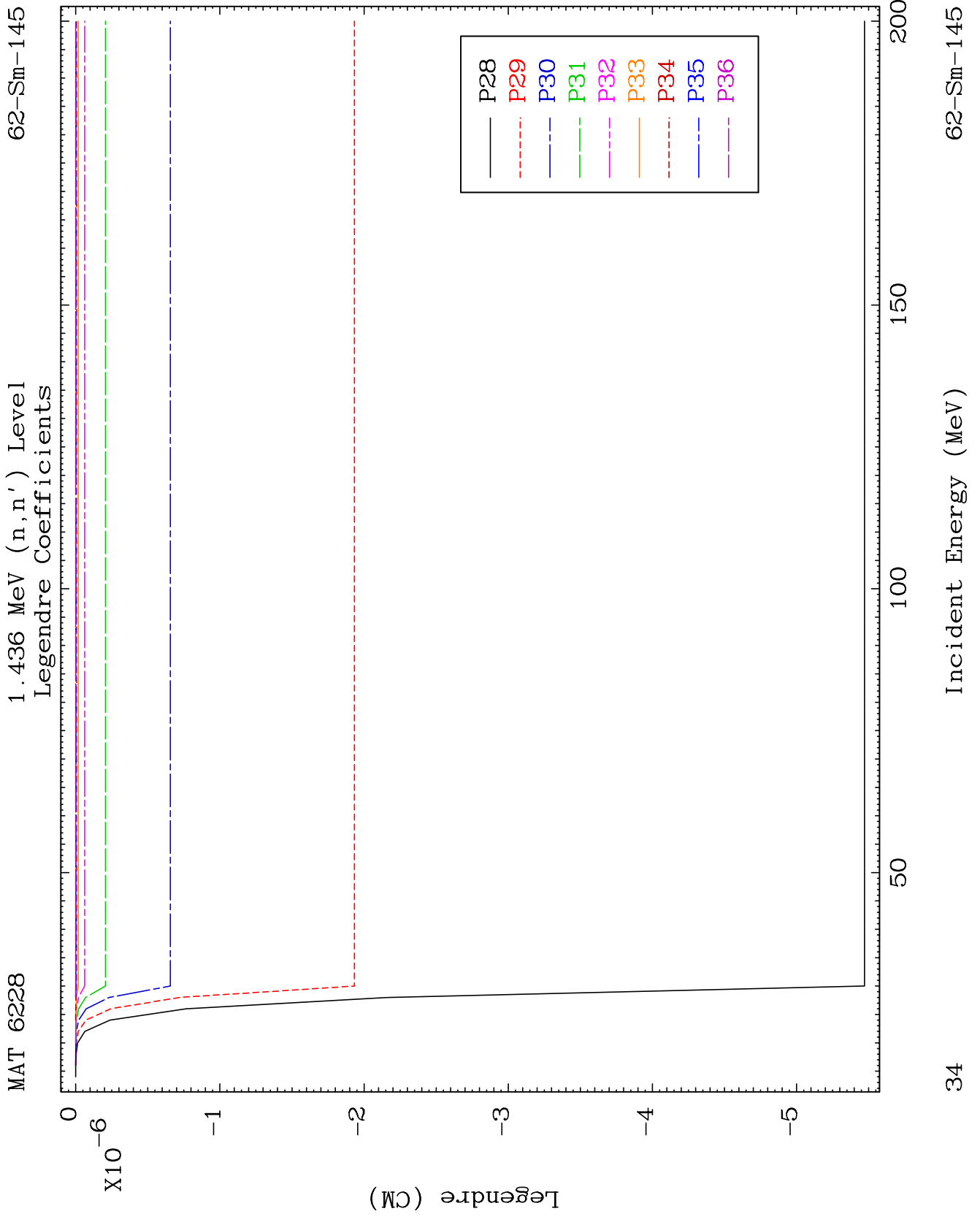


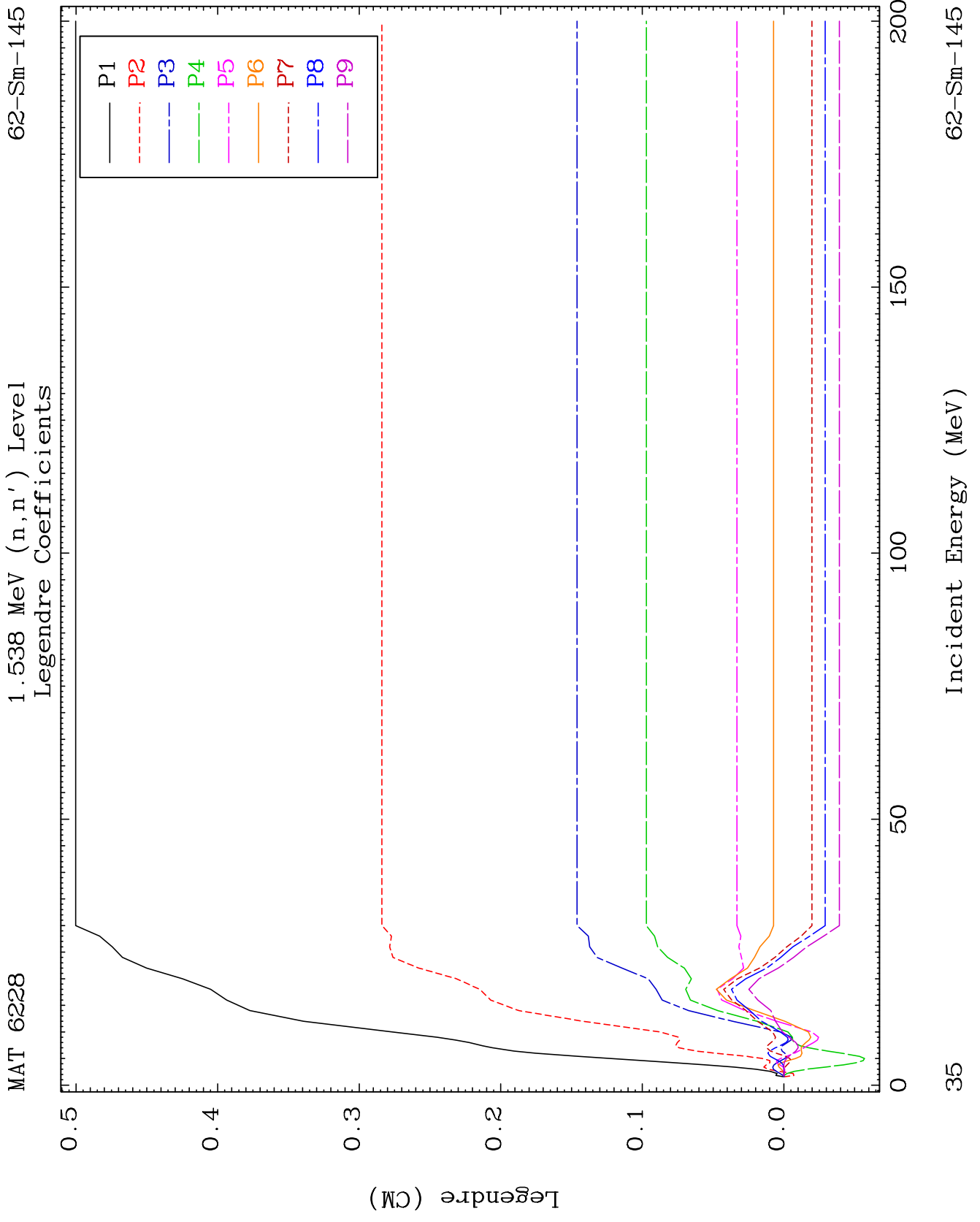
62-Sm-145

Incident Energy (MeV)

32





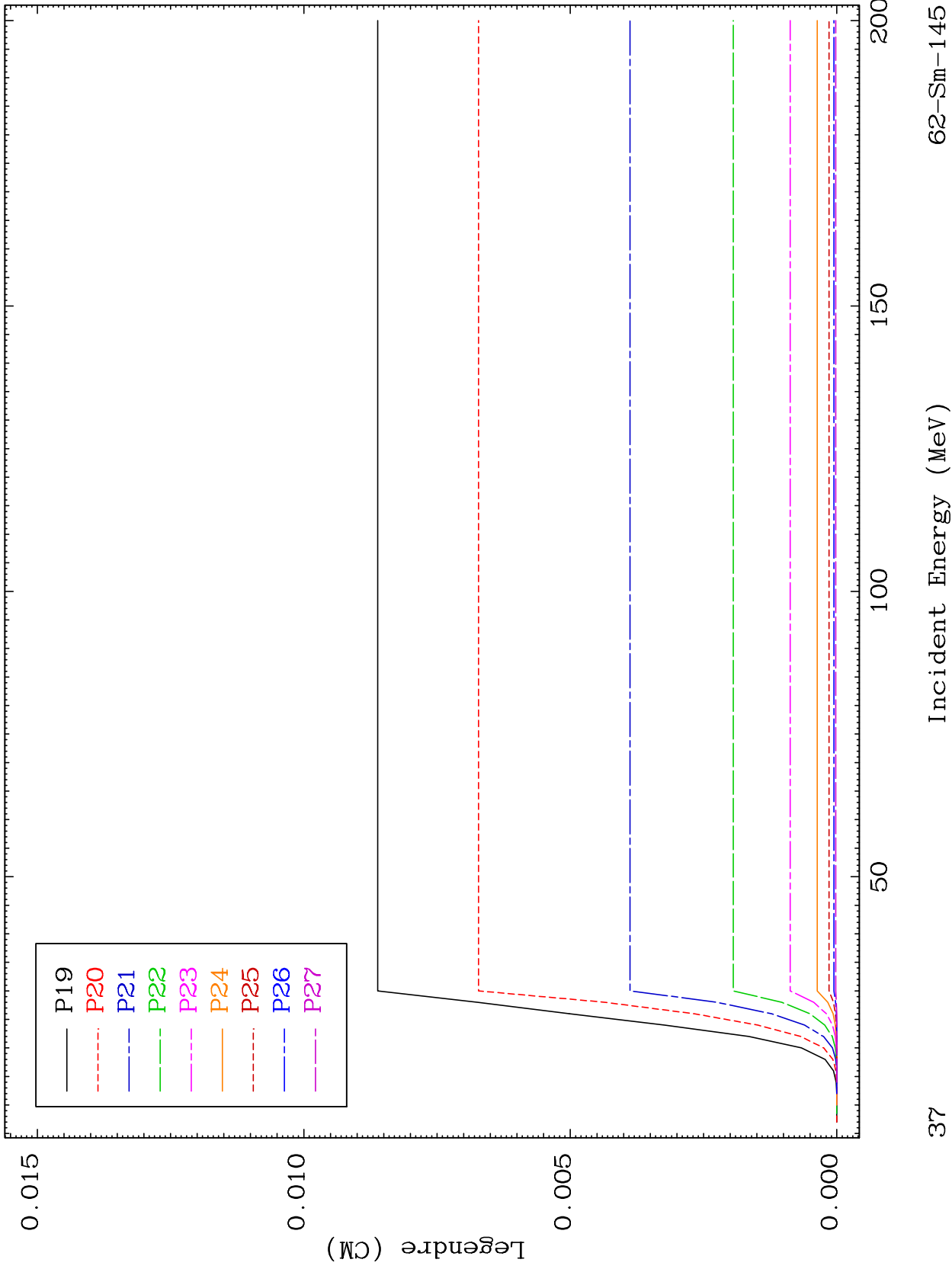




MAT 6228

1.538 MeV (n,n') Level  
Legendre Coefficients

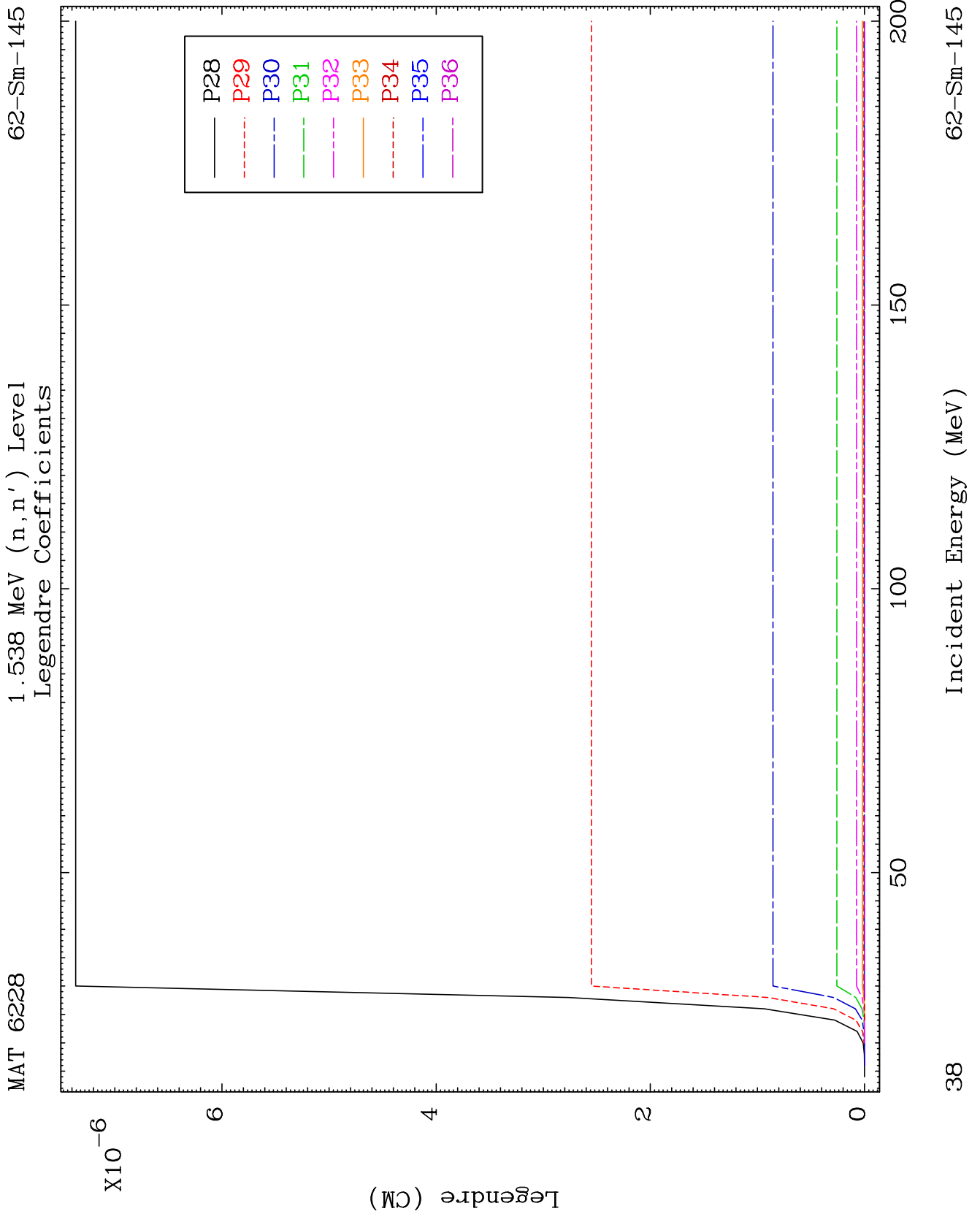
62-Sm-145

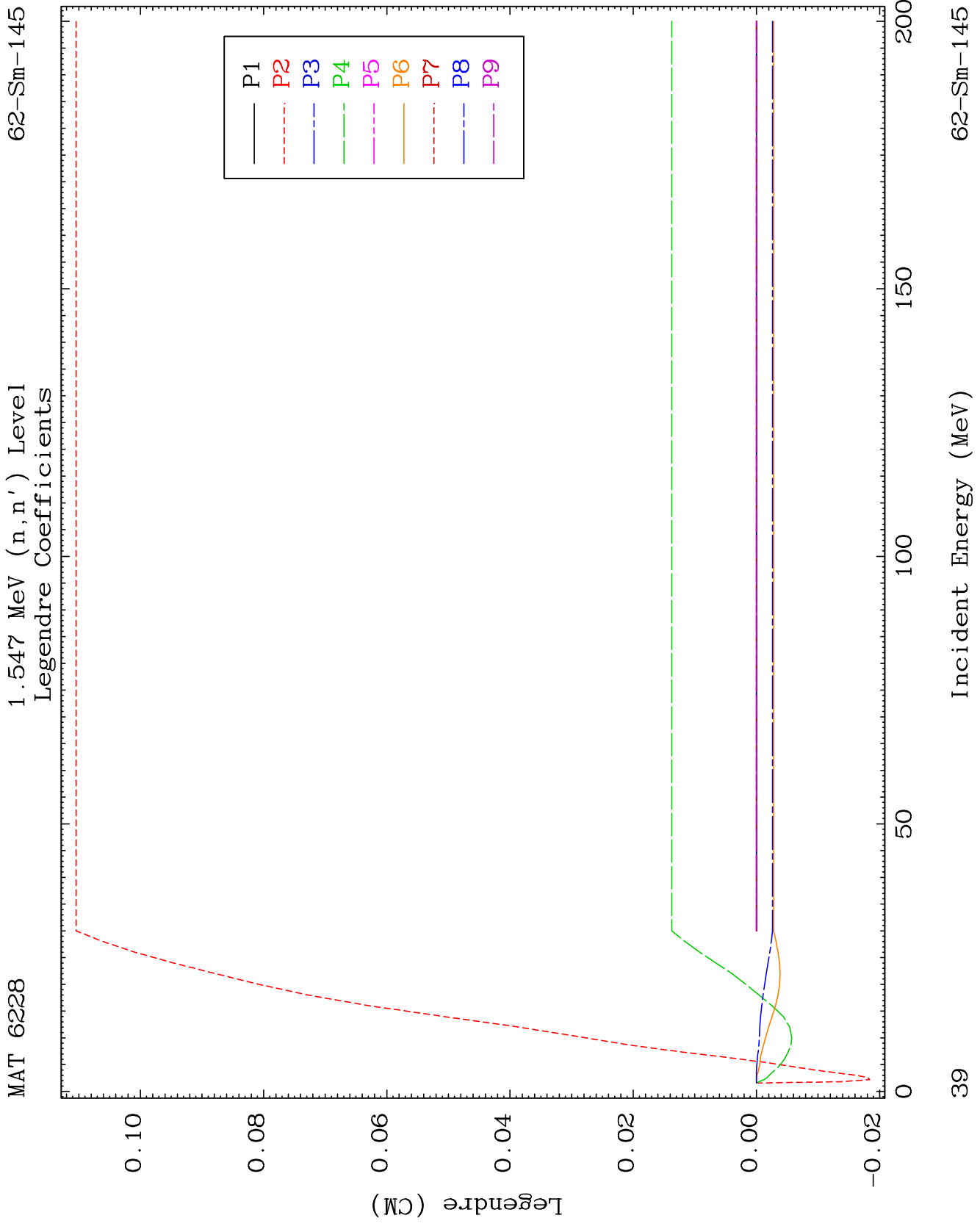


37

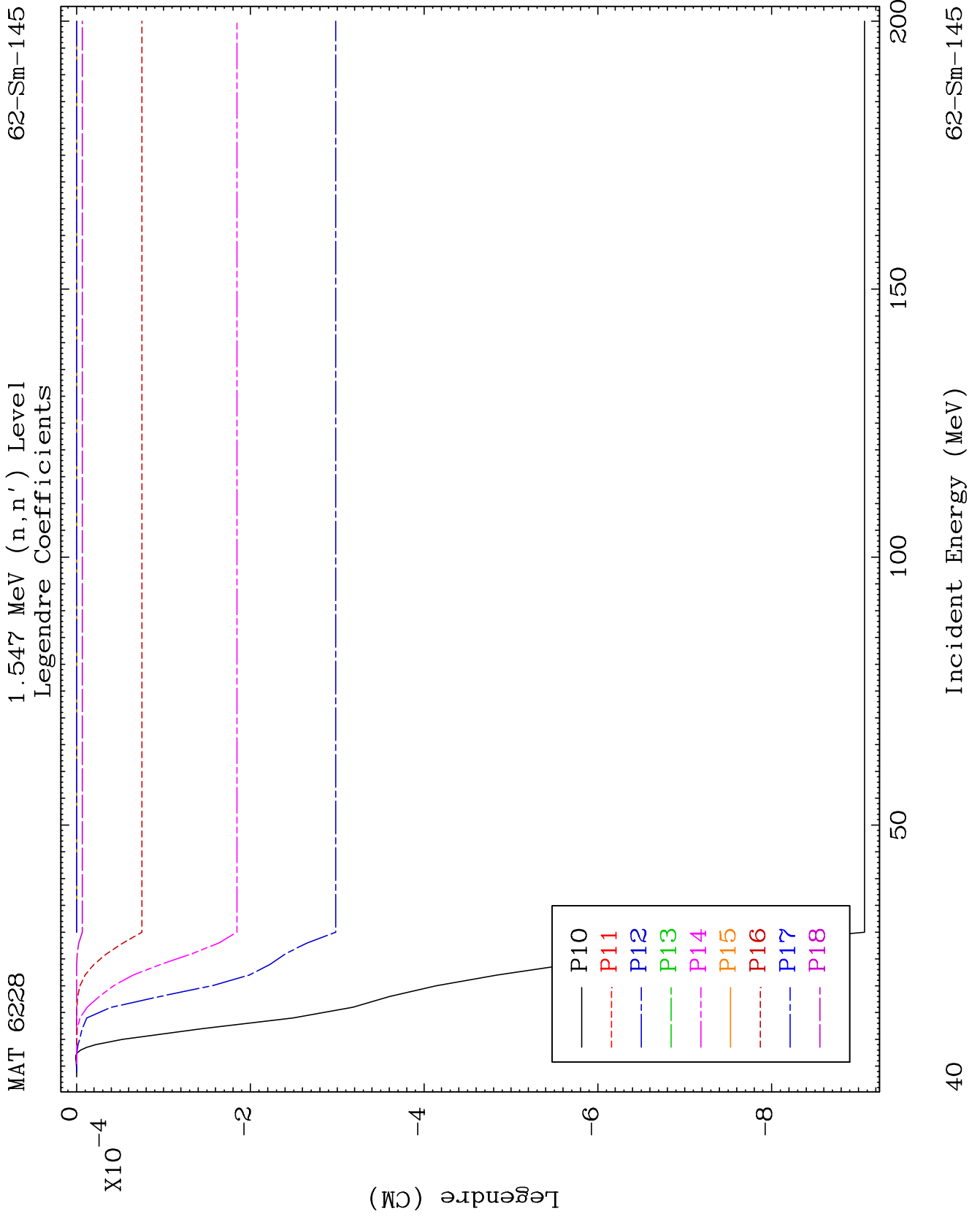
Incident Energy (MeV)

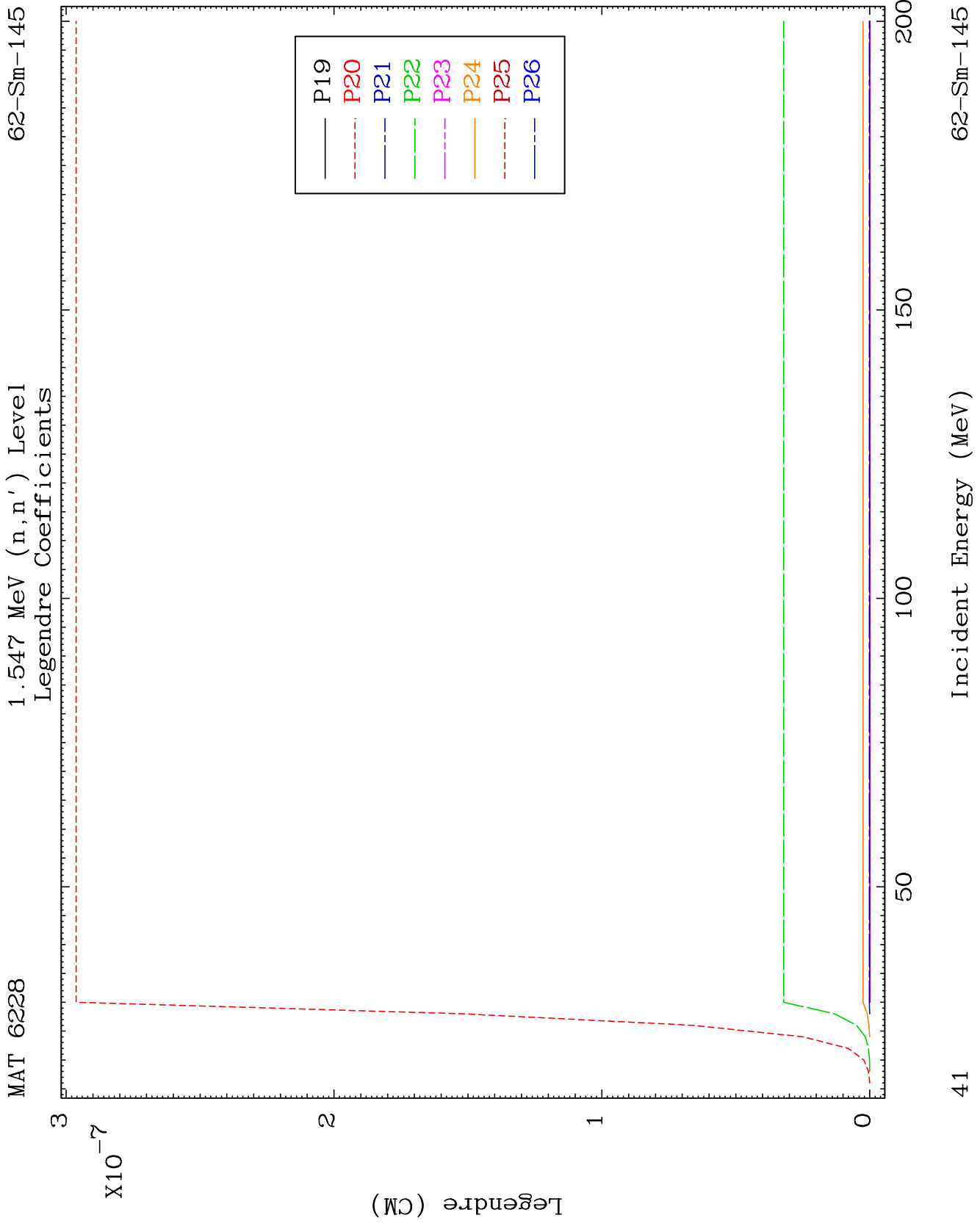
62-Sm-145







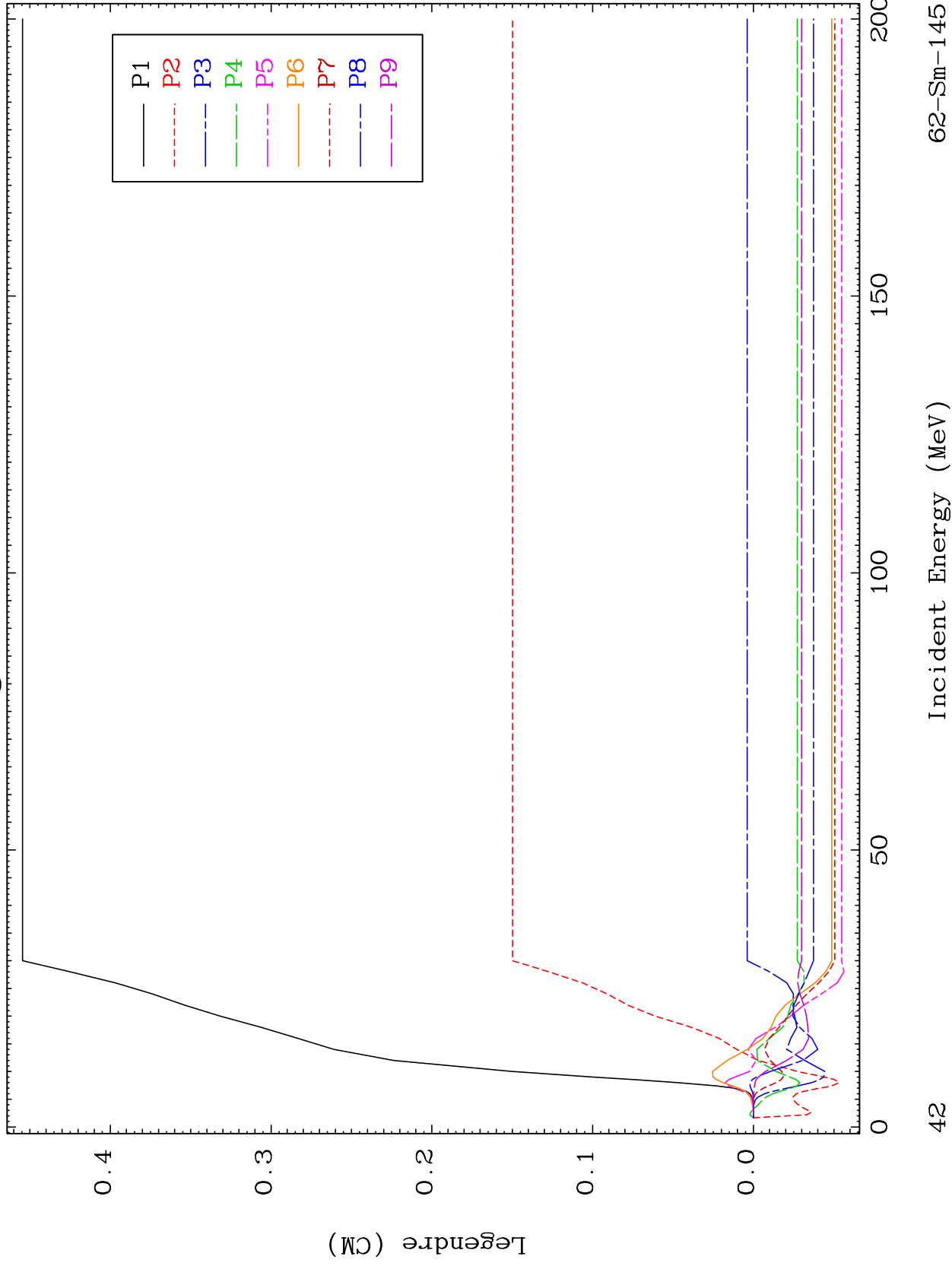




MAT 6228

1.607 MeV (n,n') Level  
Legendre Coefficients

62-Sm-145



42

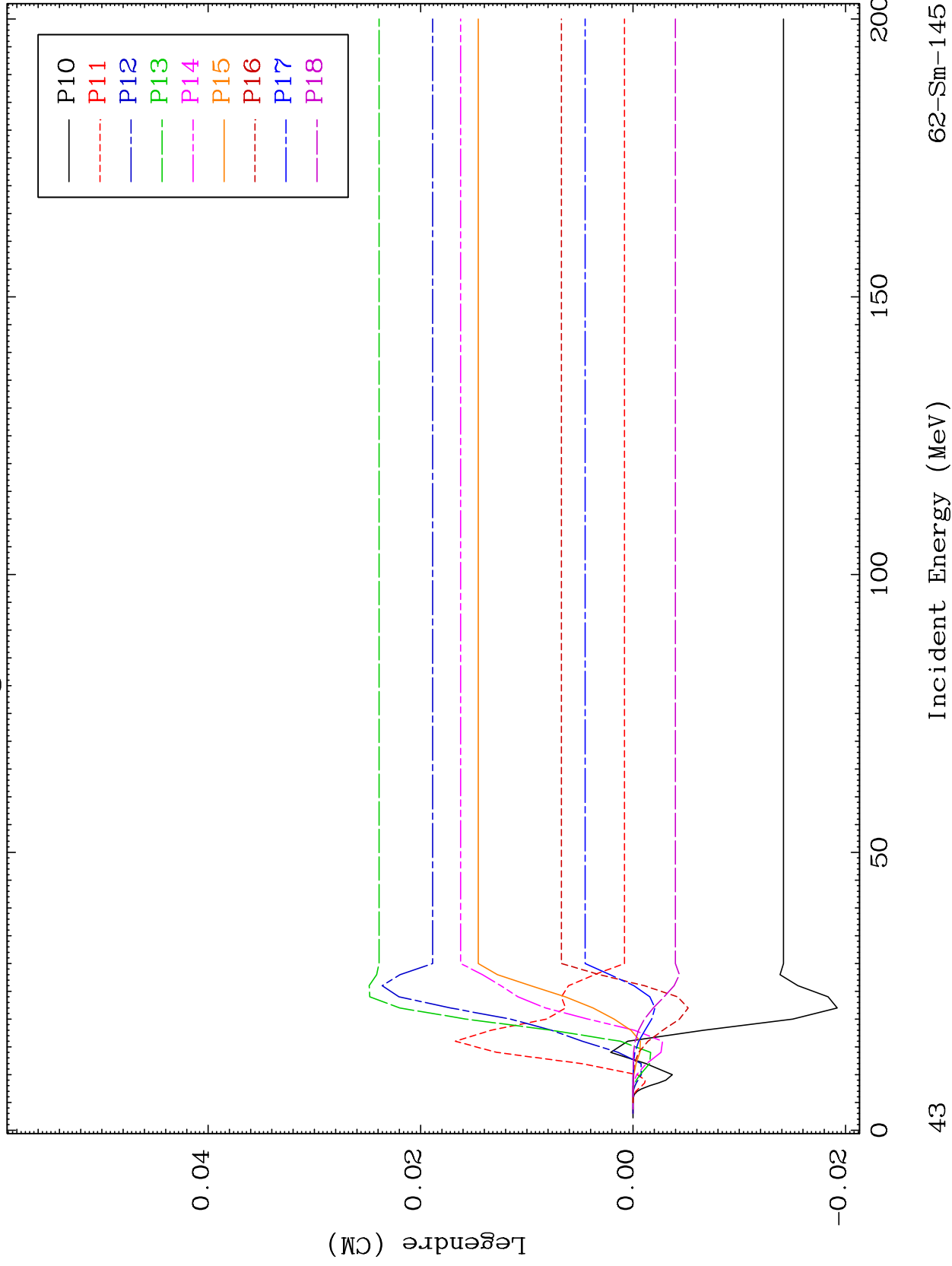
Incident Energy (MeV)

62-Sm-145

MAT 6228

1.607 MeV (n,n') Level  
Legendre Coefficients

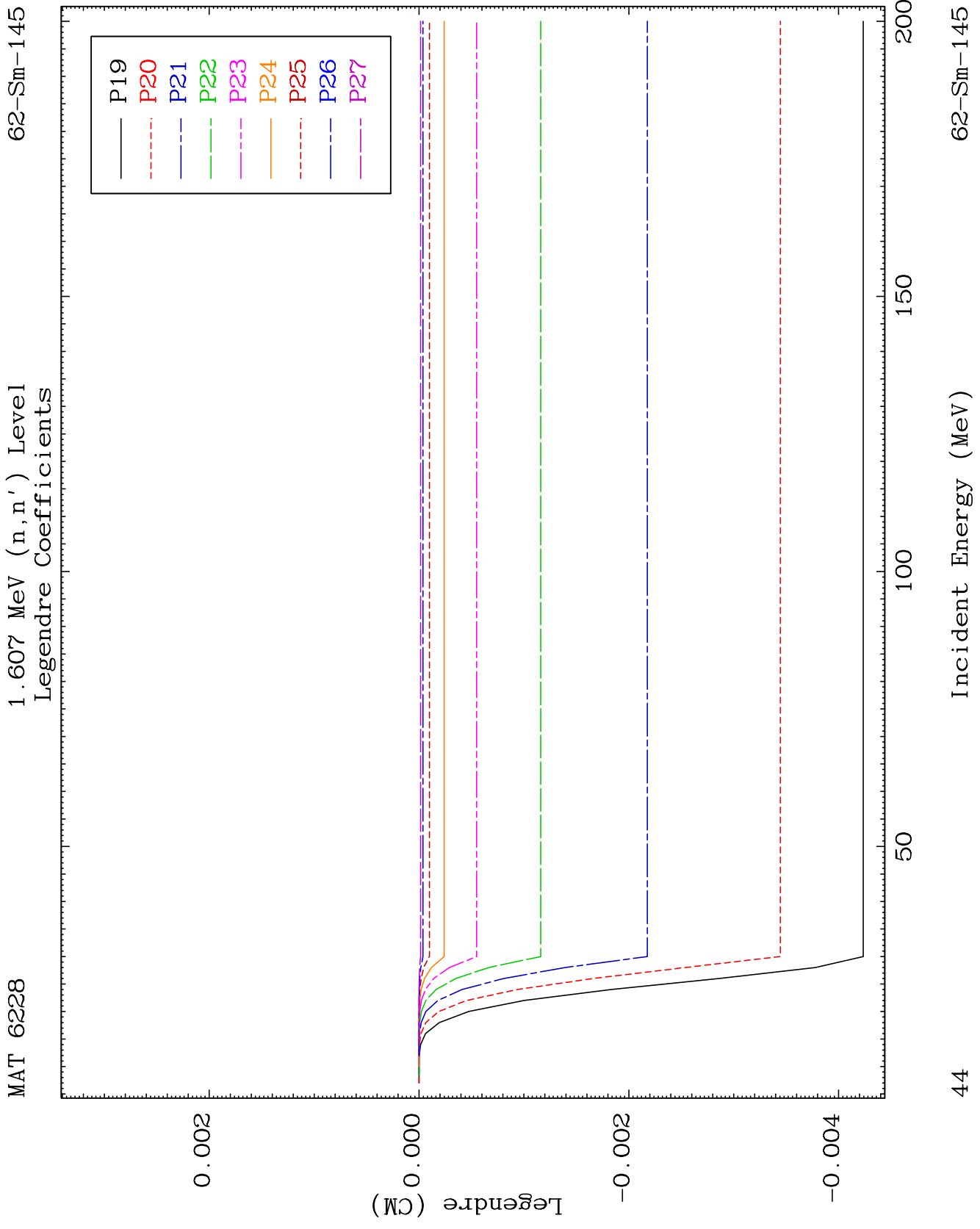
62-Sm-145



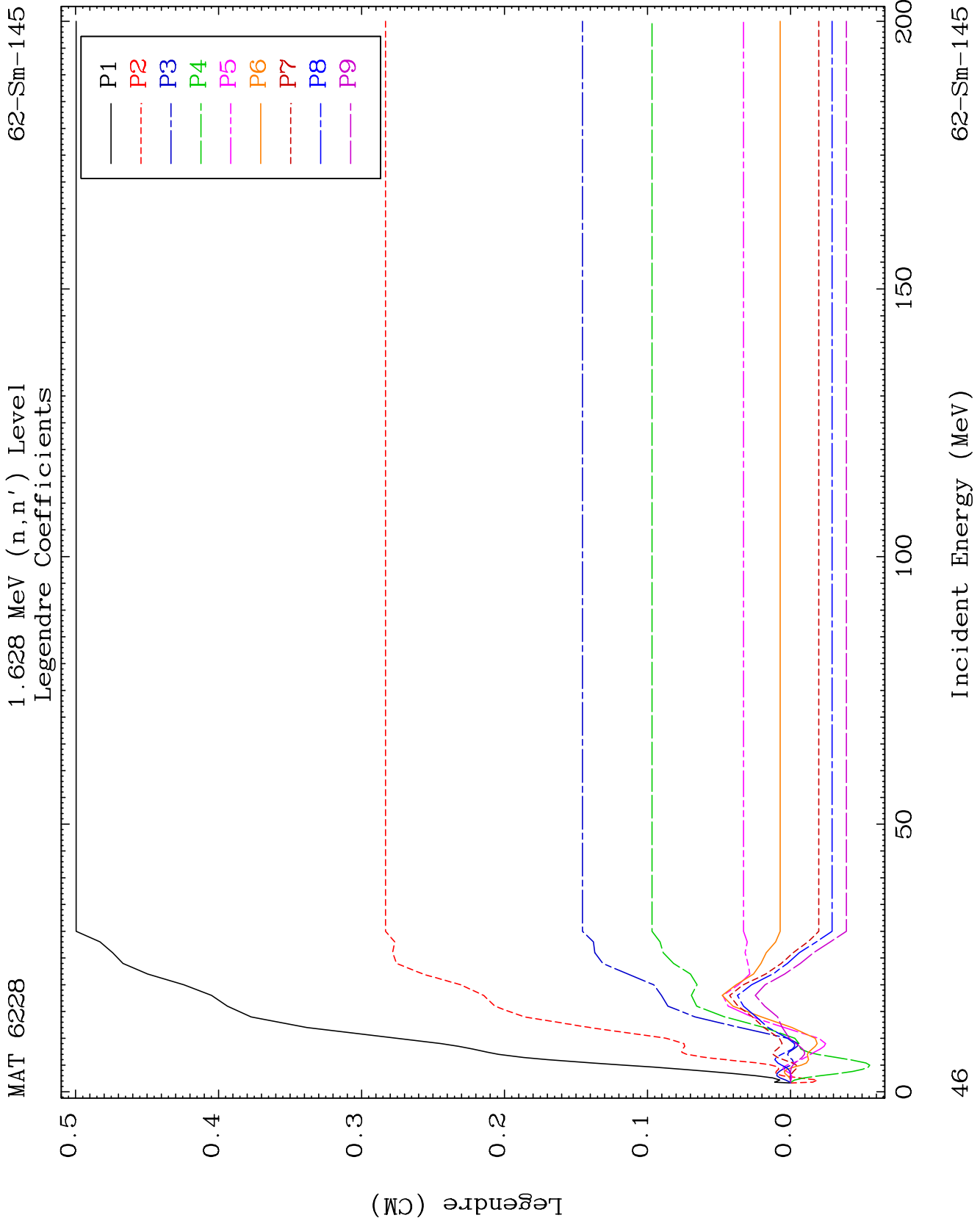
62-Sm-145

Incident Energy (MeV)

43



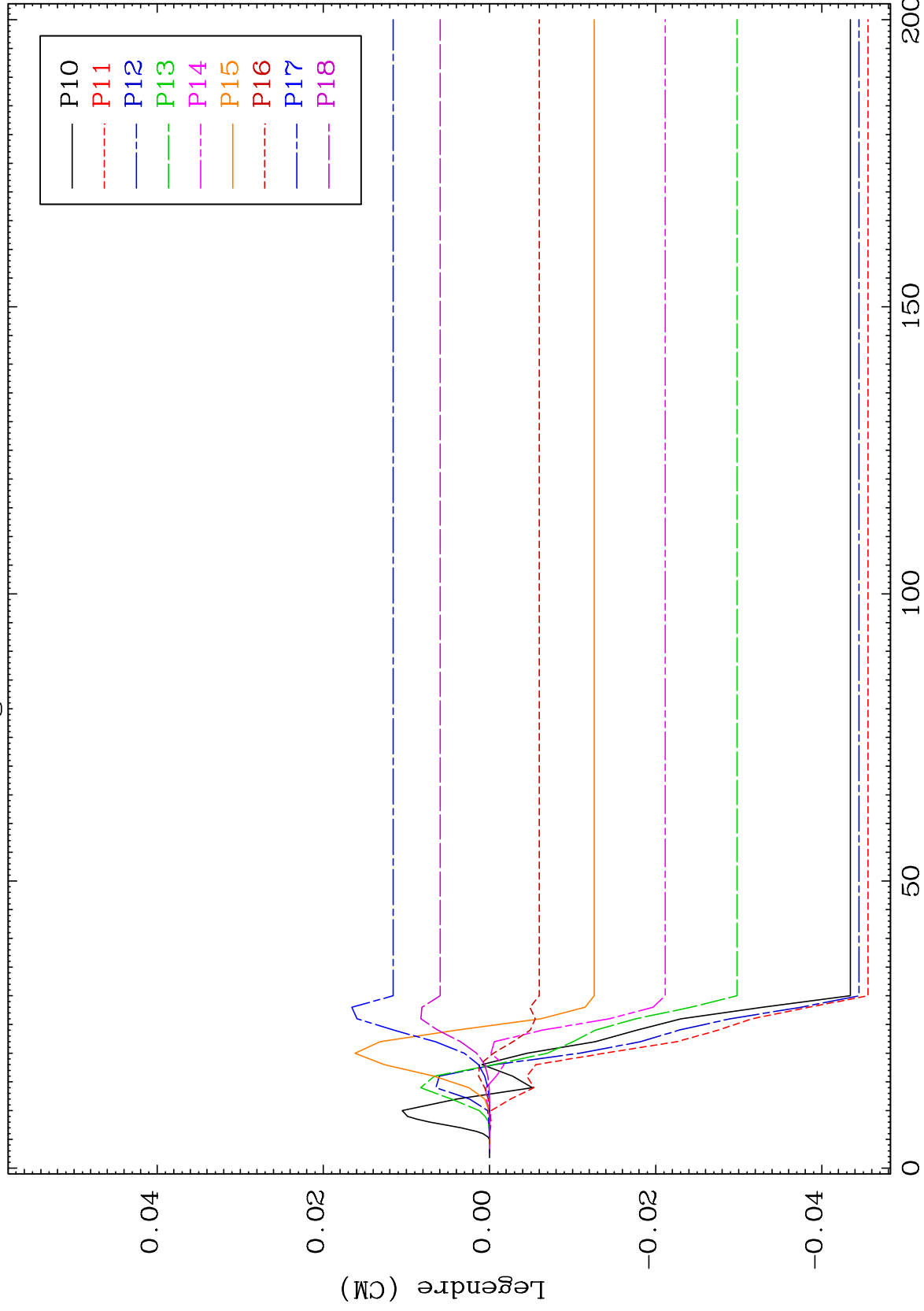




MAT 6228

1.628 MeV (n,n') Level  
Legendre Coefficients

62-Sm-145

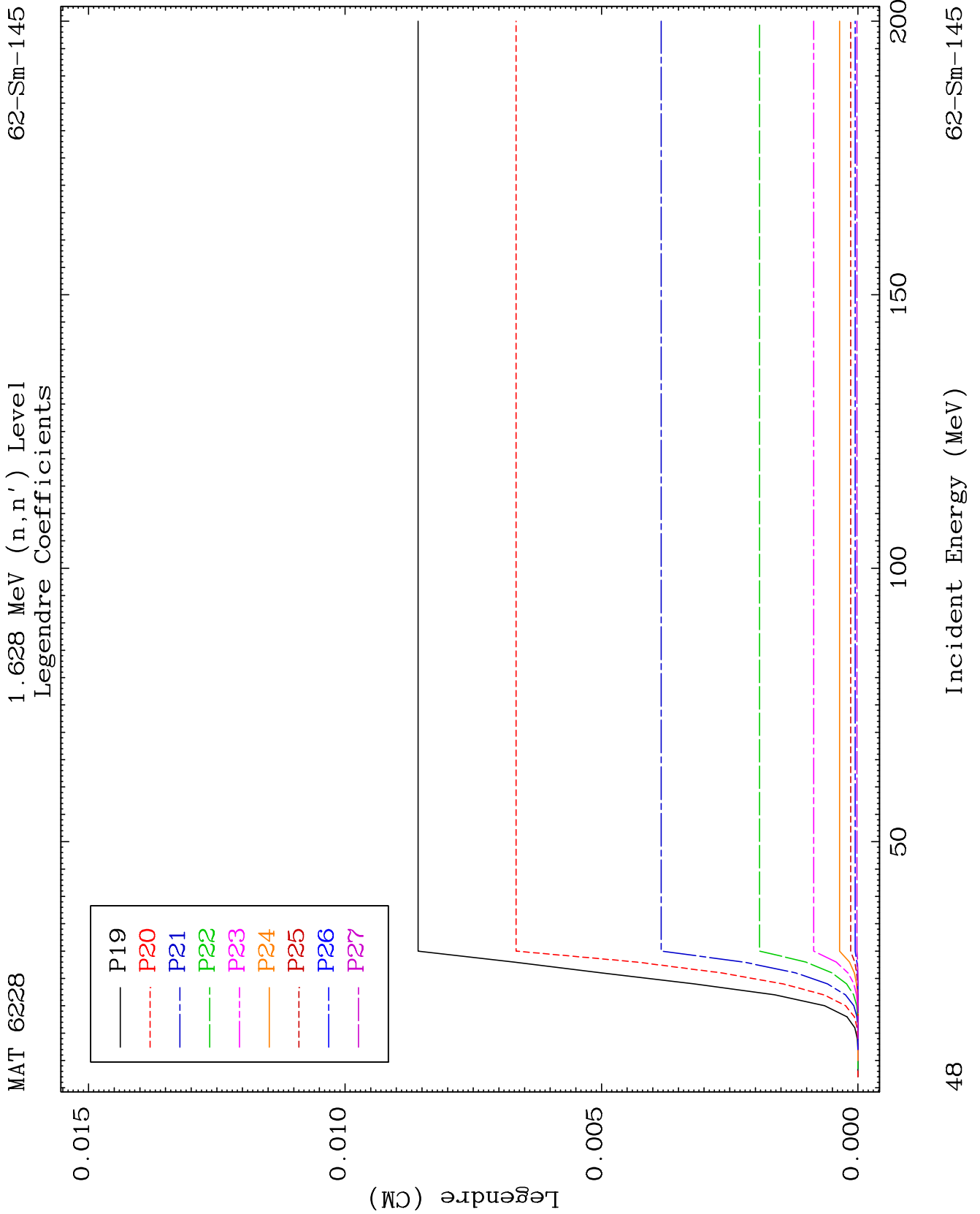


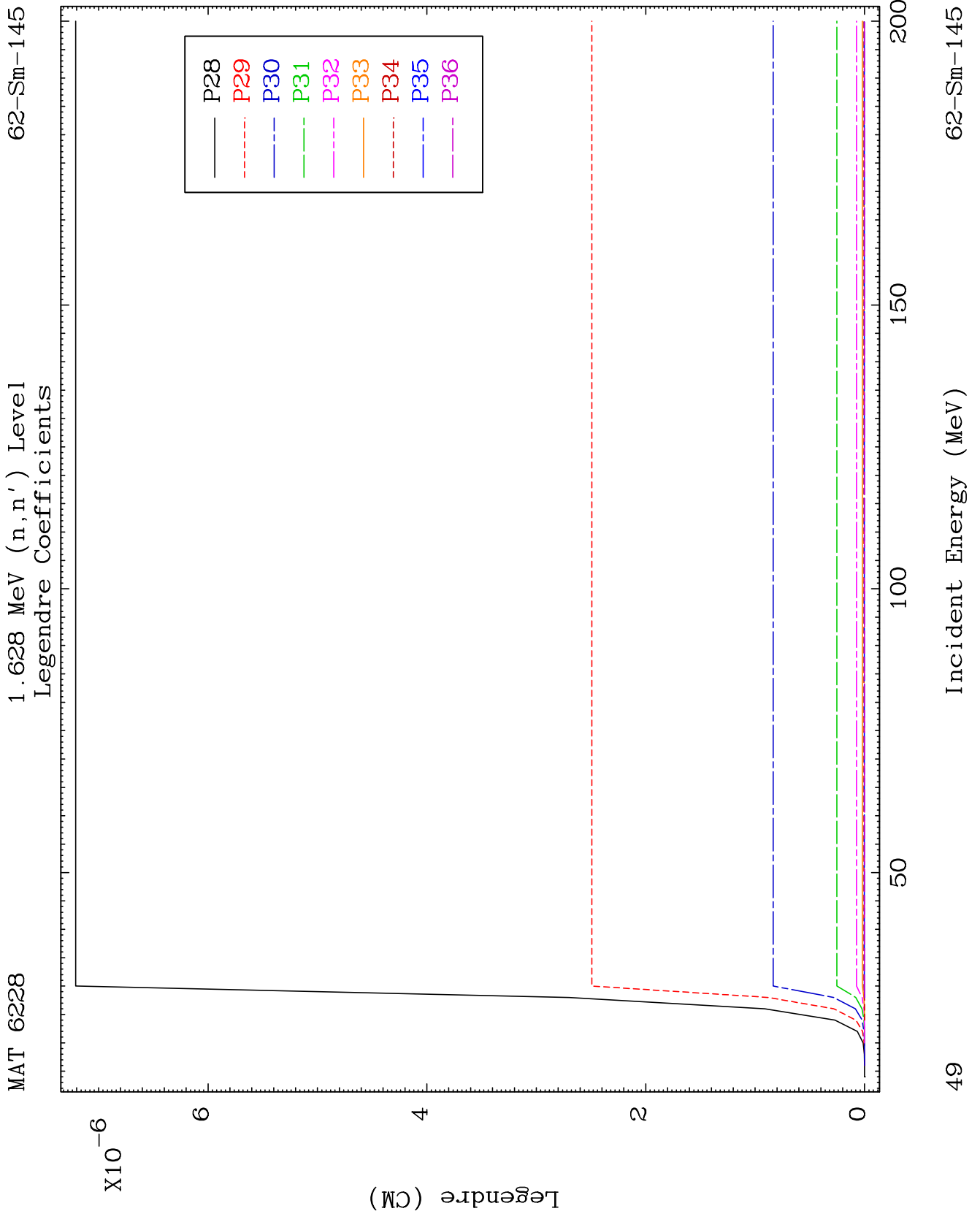
47

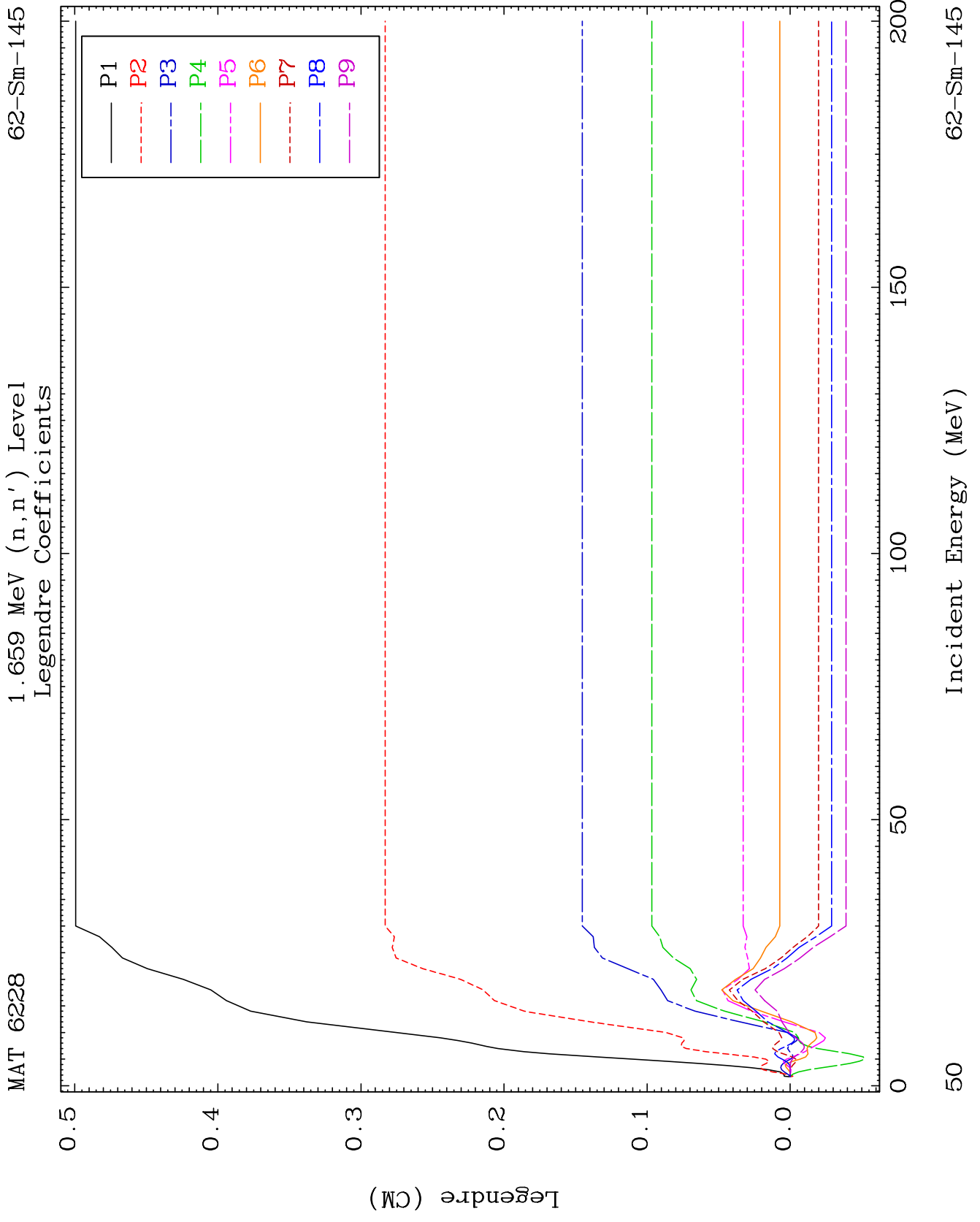
Incident Energy (MeV)

62-Sm-145





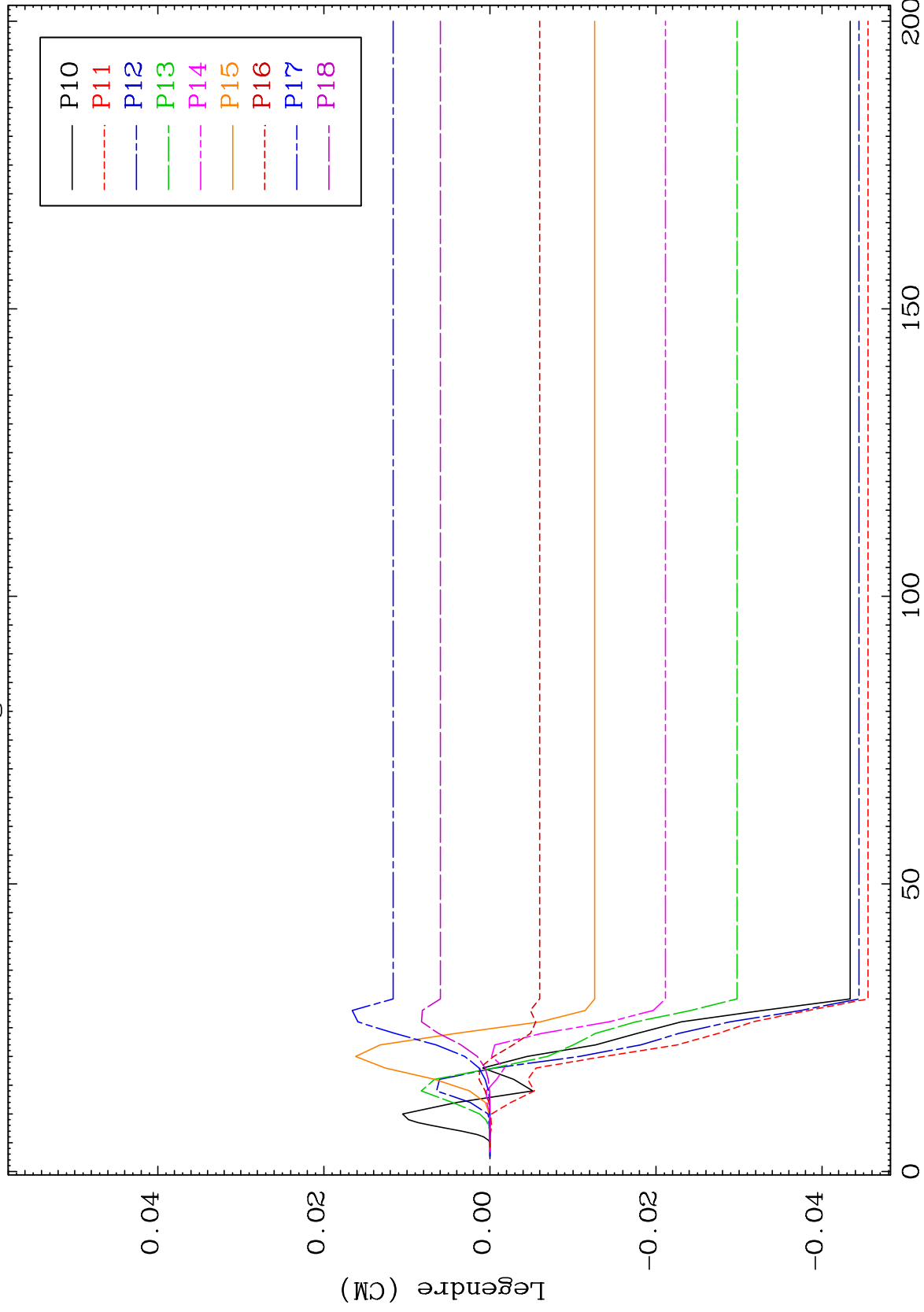




MAT 6228

1.659 MeV (n,n') Level  
Legendre Coefficients

62-Sm-145



51

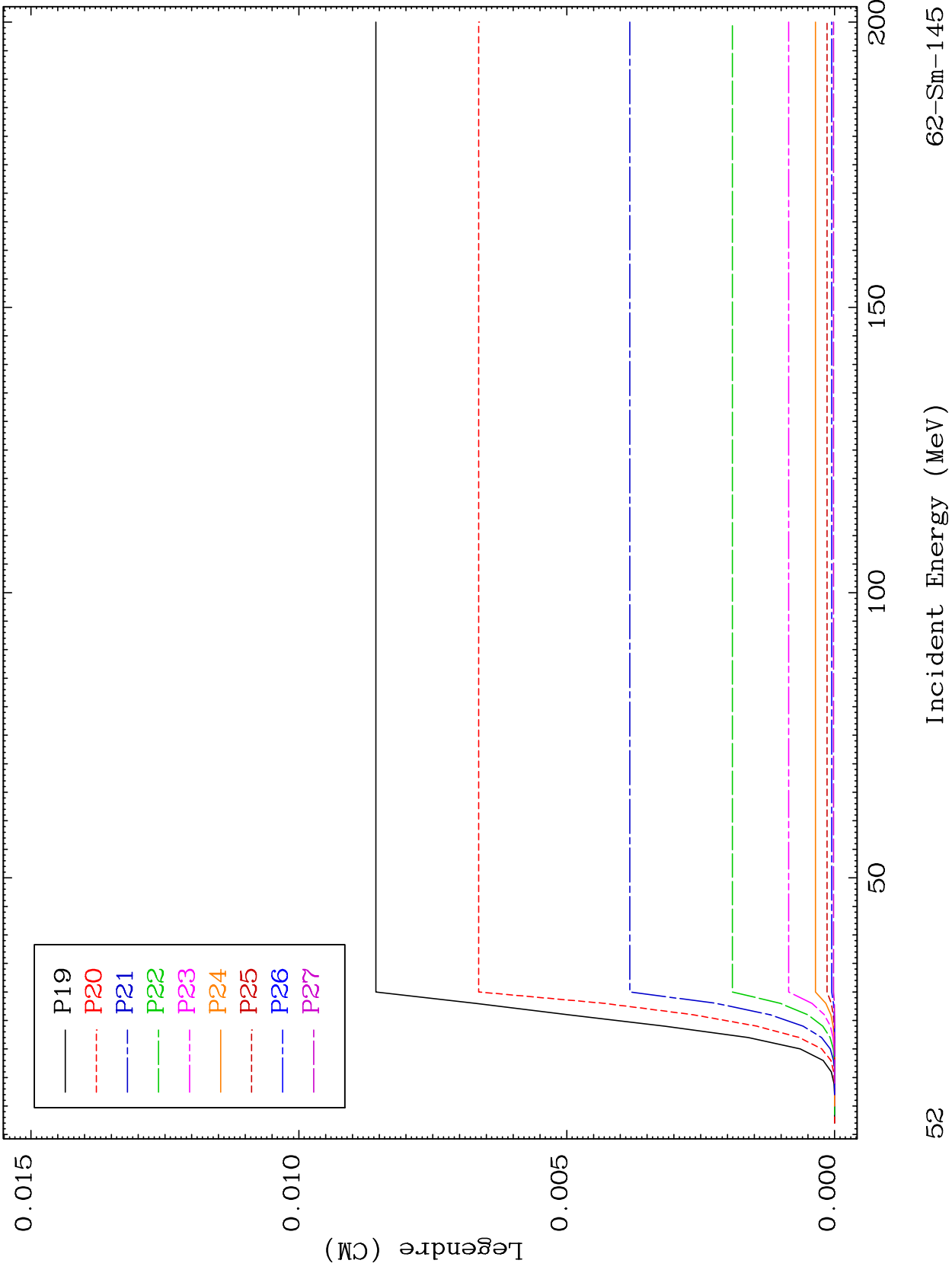
Incident Energy (MeV)

62-Sm-145

MAT 6228

1.659 MeV (n,n') Level  
Legendre Coefficients

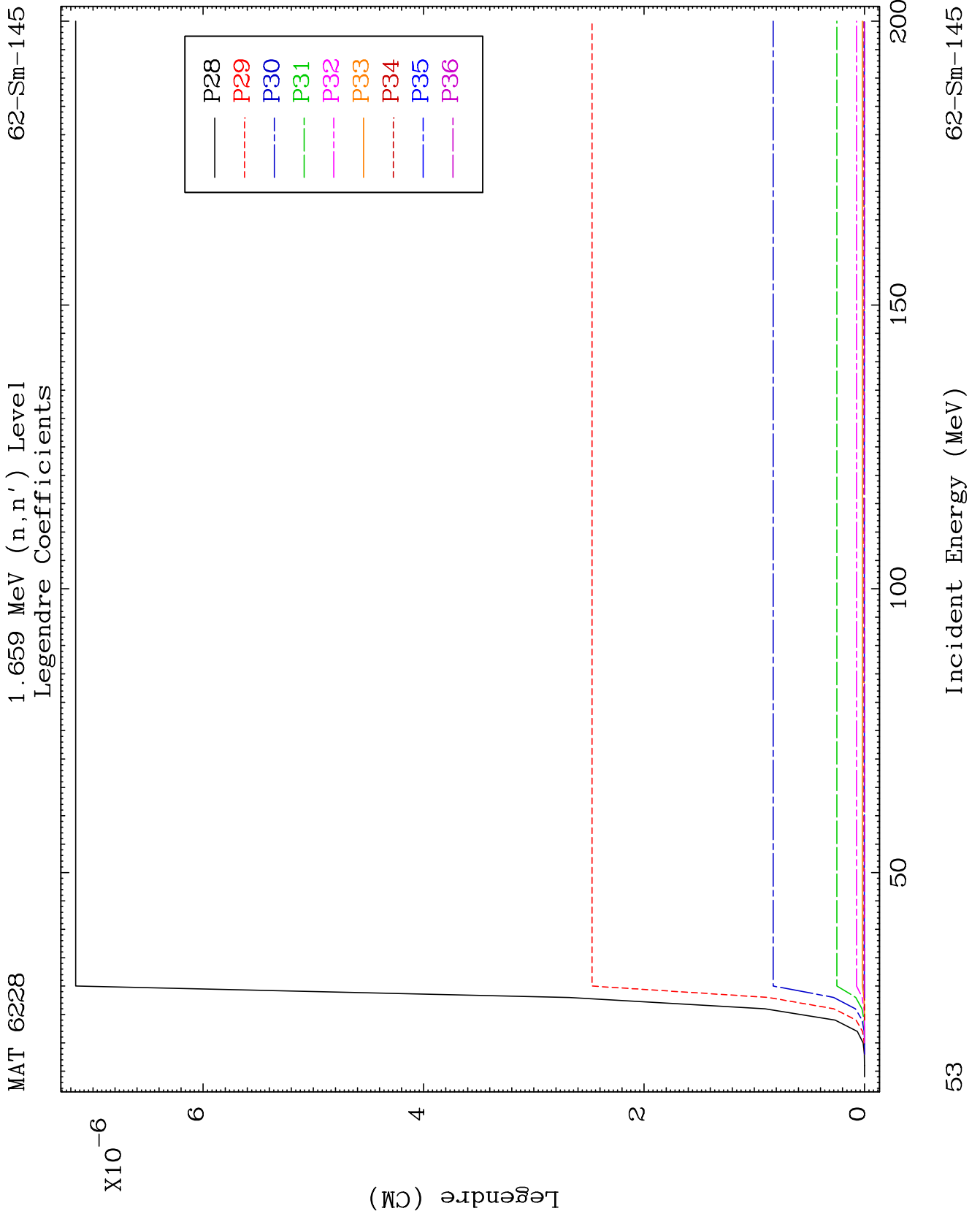
62-Sm-145

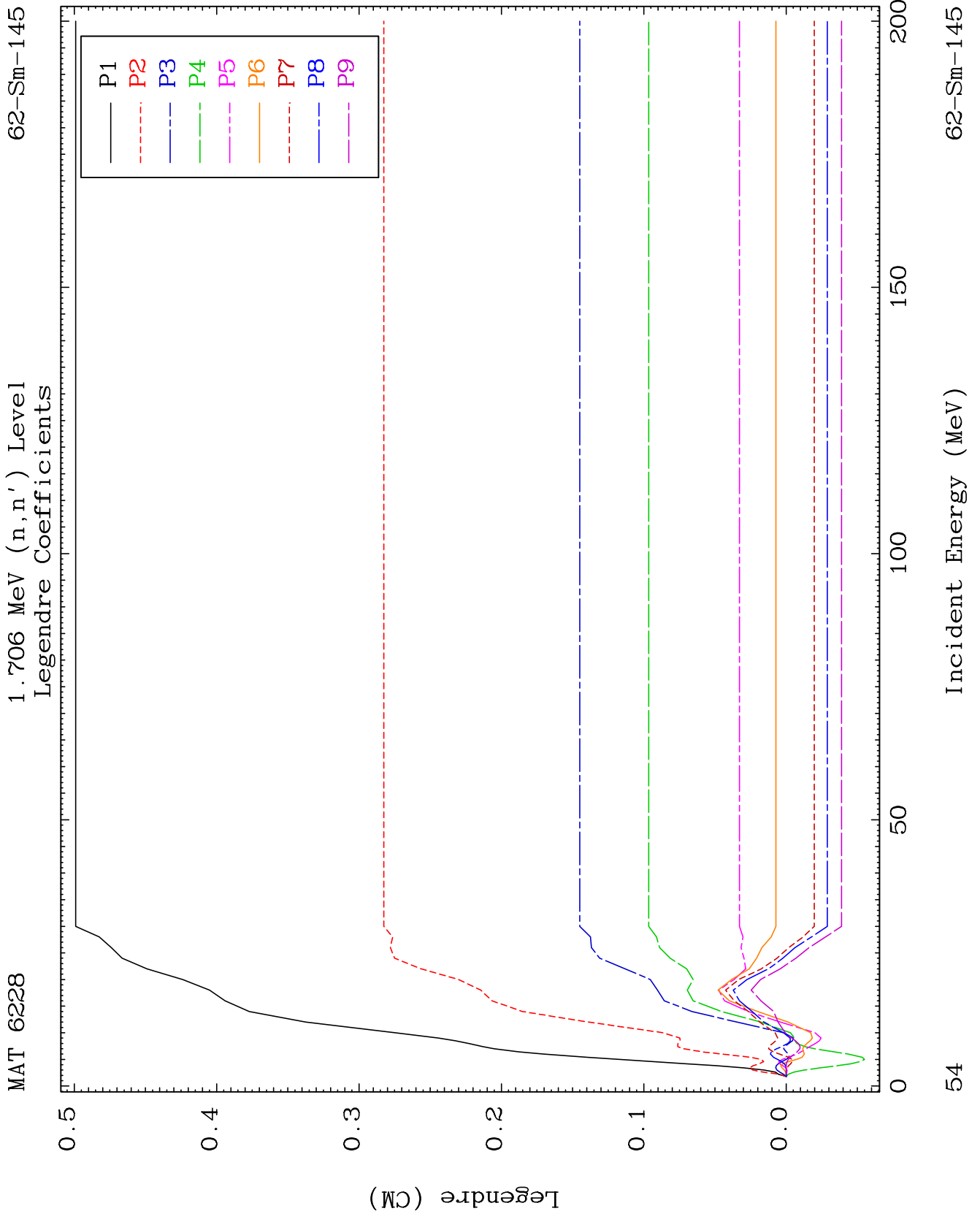


52

Incident Energy (MeV)

62-Sm-145

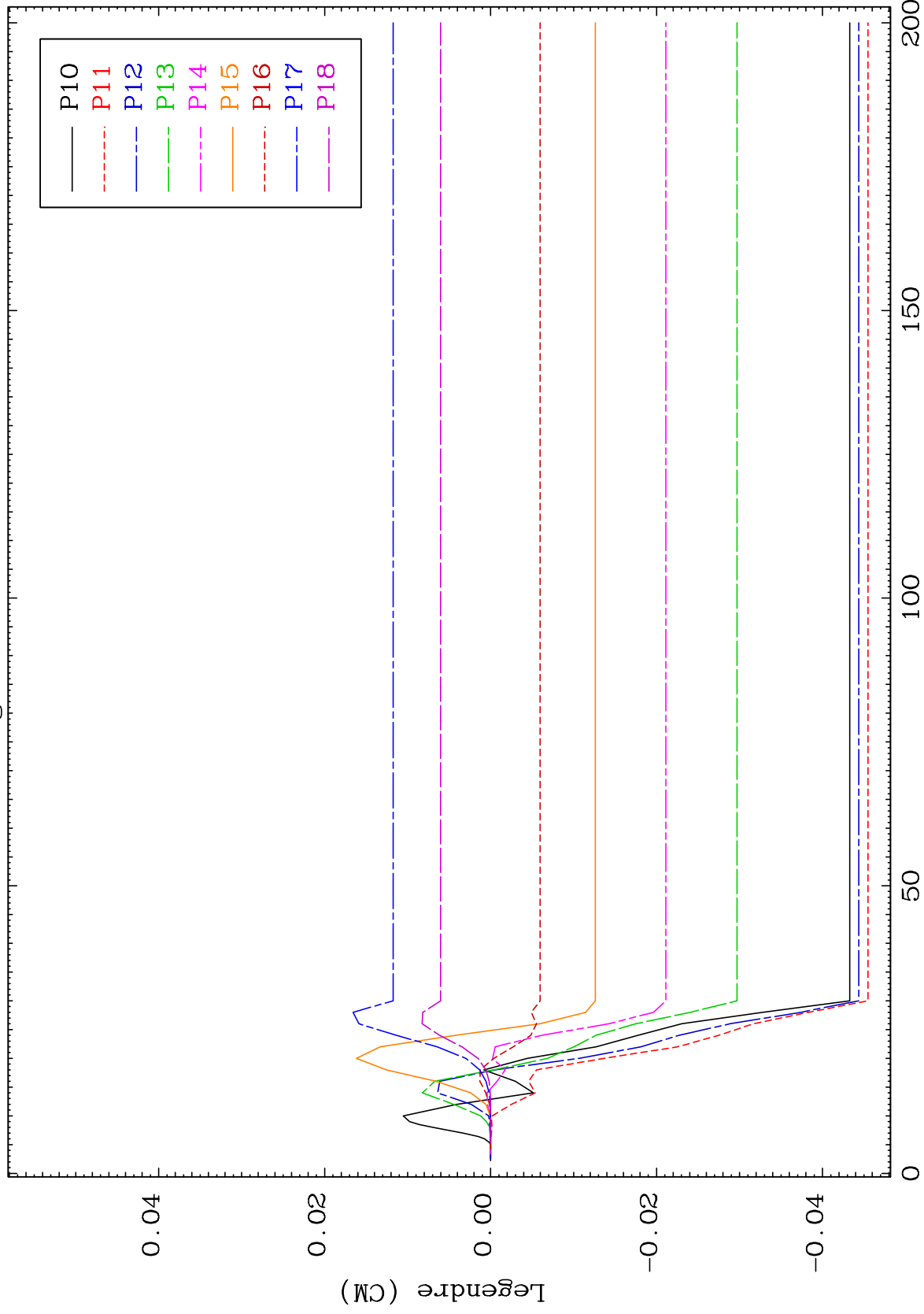




MAT 6228

1.706 MeV (n,n') Level  
Legendre Coefficients

62-Sm-145

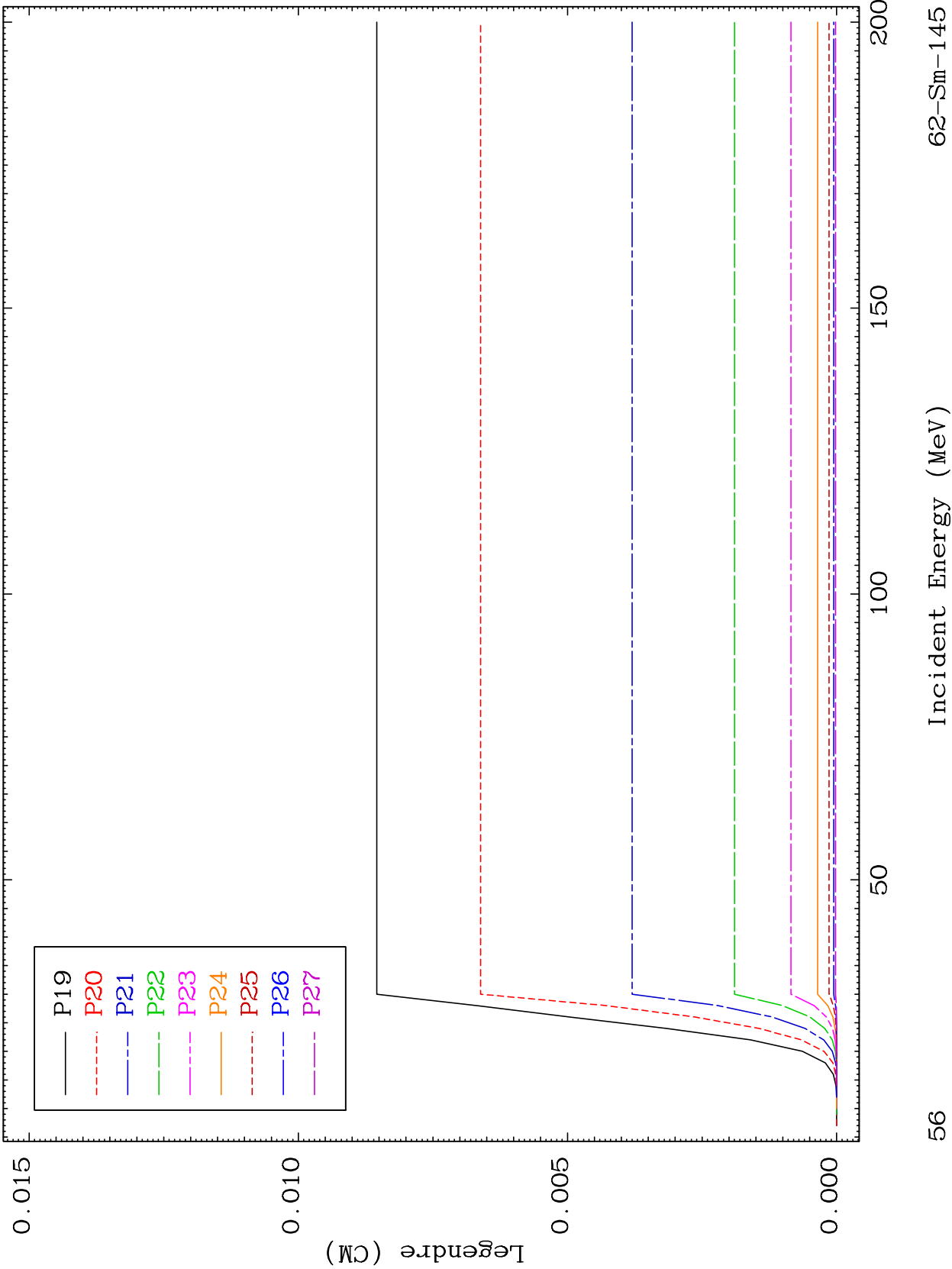


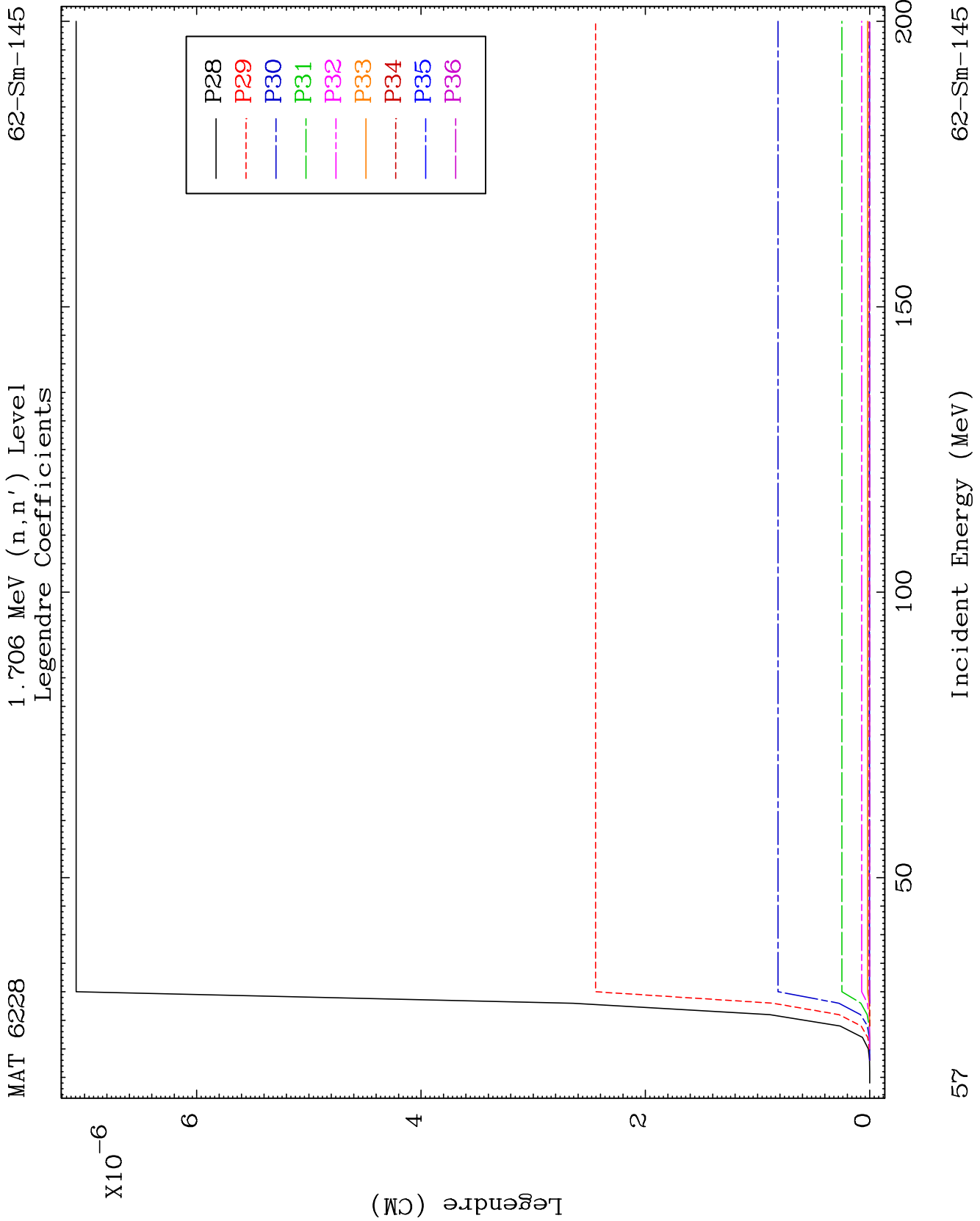
62-Sm-145

Incident Energy (MeV)

55





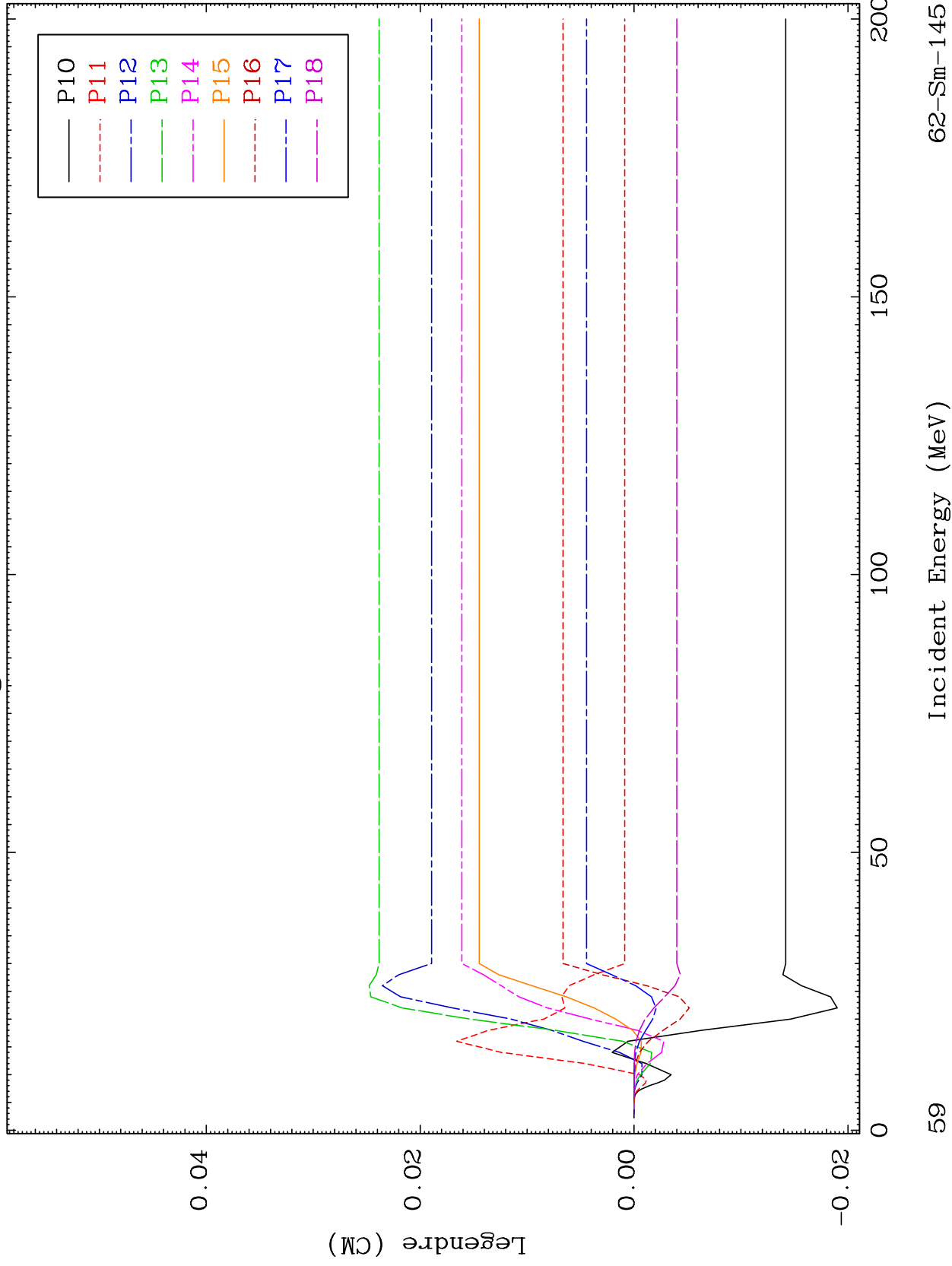




MAT 6228

1.729 MeV (n,n') Level  
Legendre Coefficients

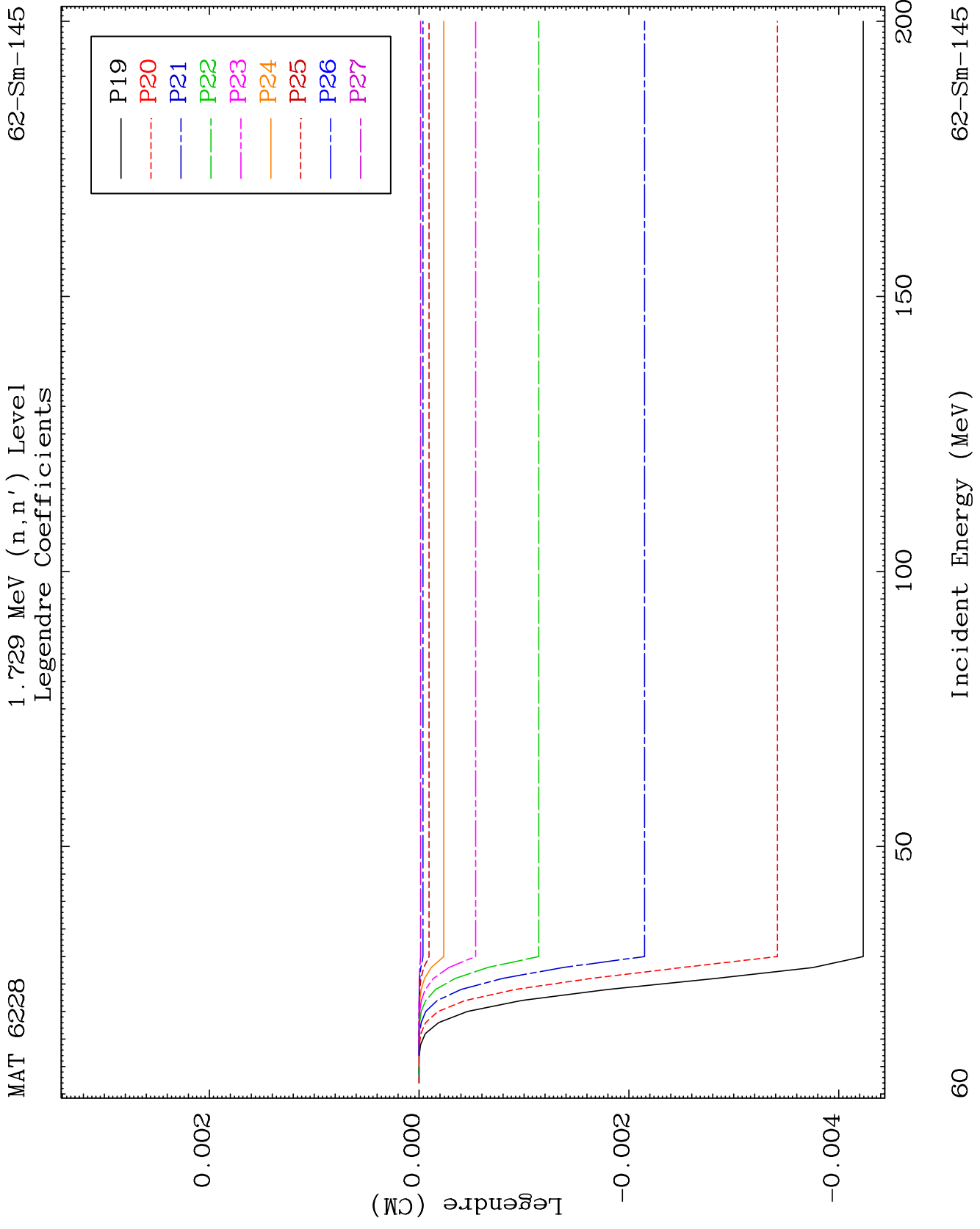
62-Sm-145

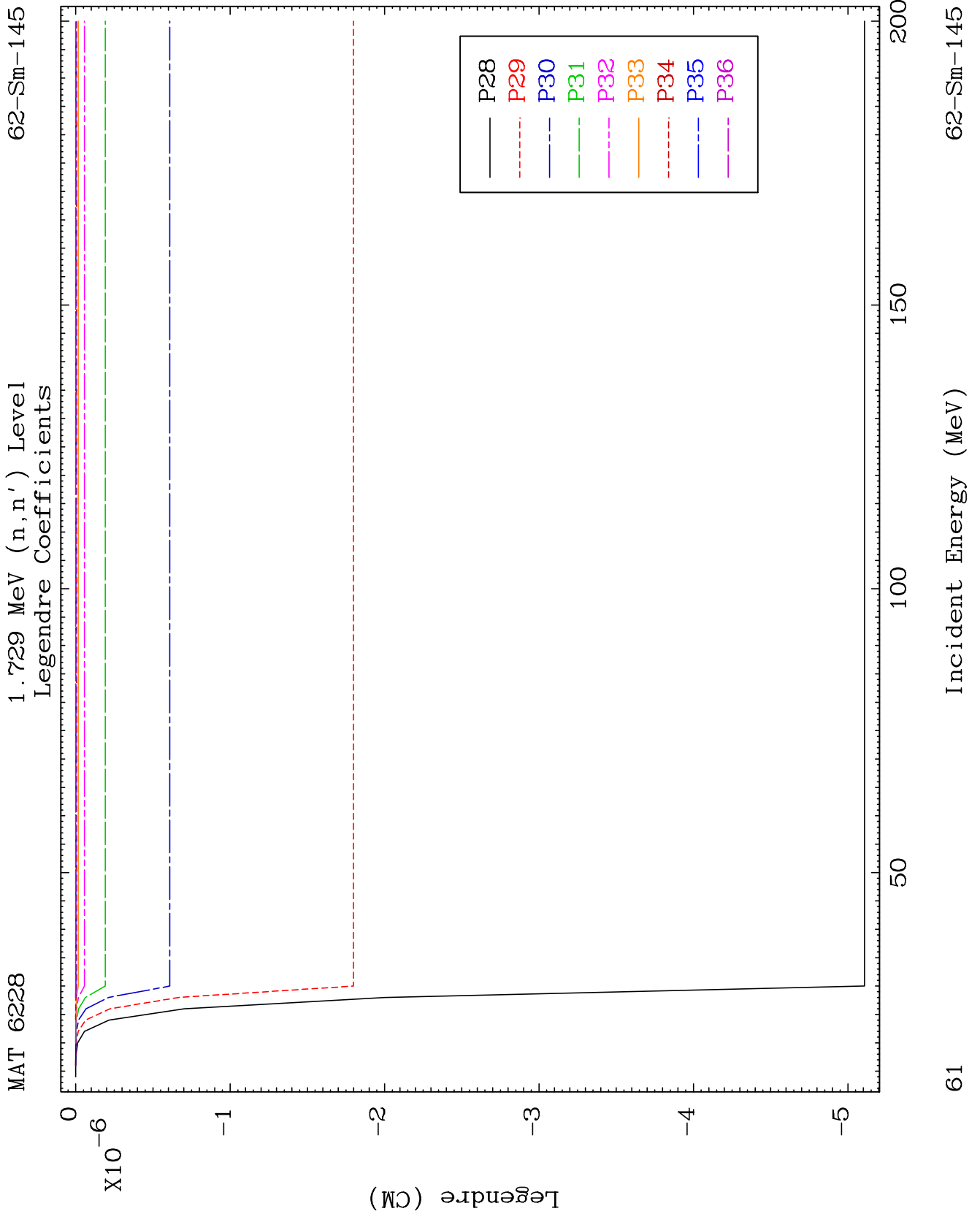


59

Incident Energy (MeV)

62-Sm-145

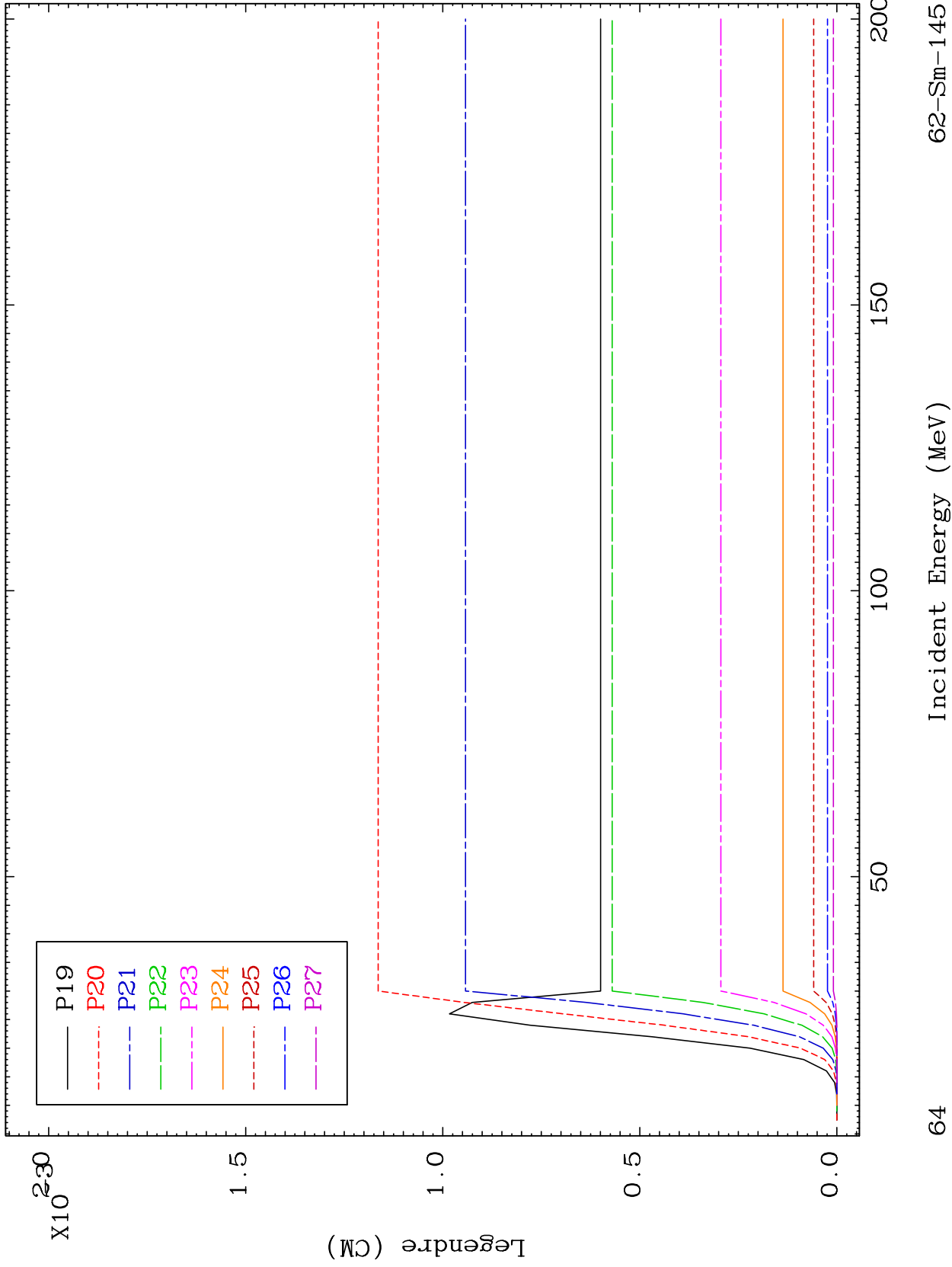








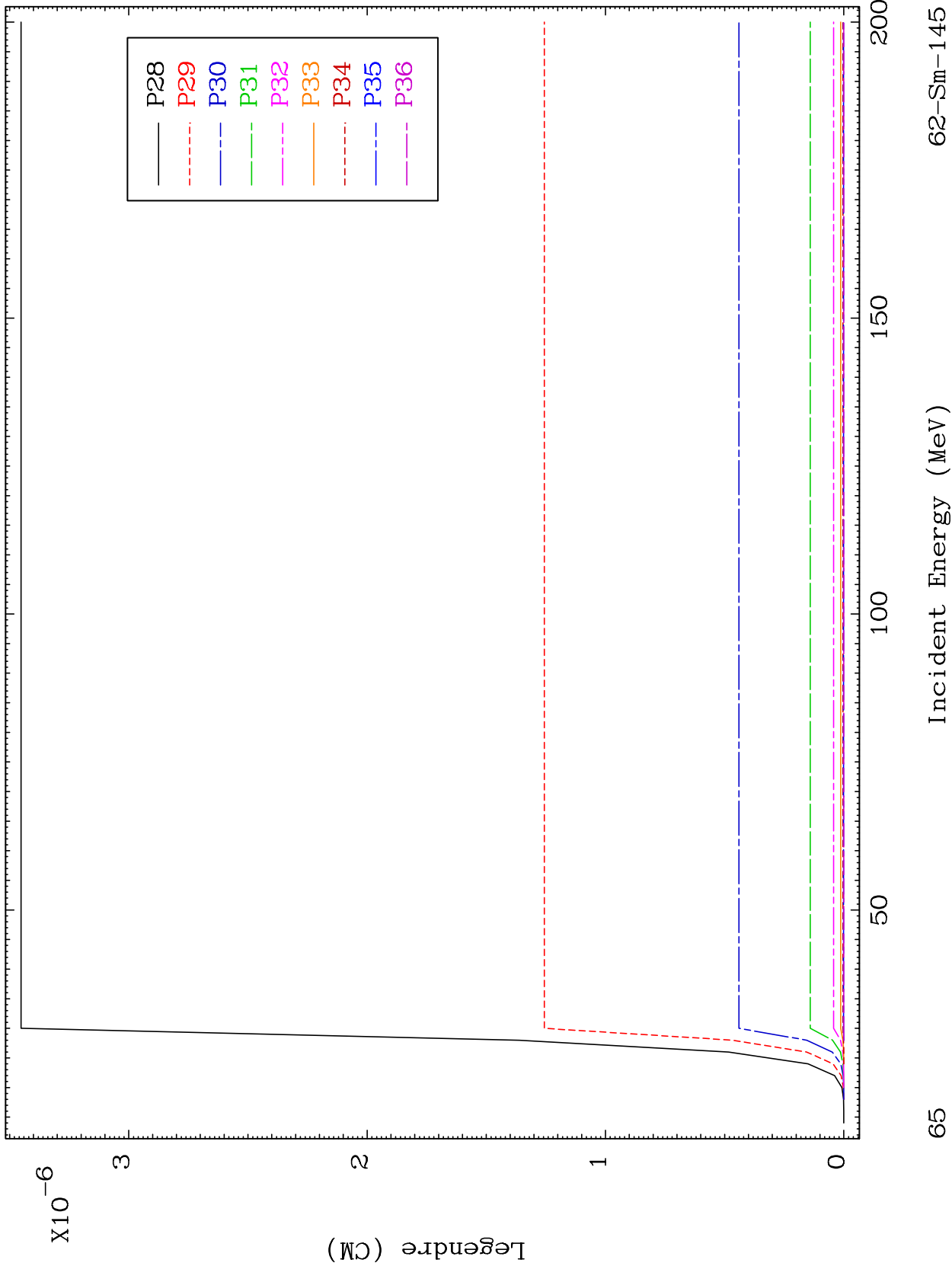




MAT 6228

1.774 MeV (n, n') Level  
Legendre Coefficients

62-Sm-145



65

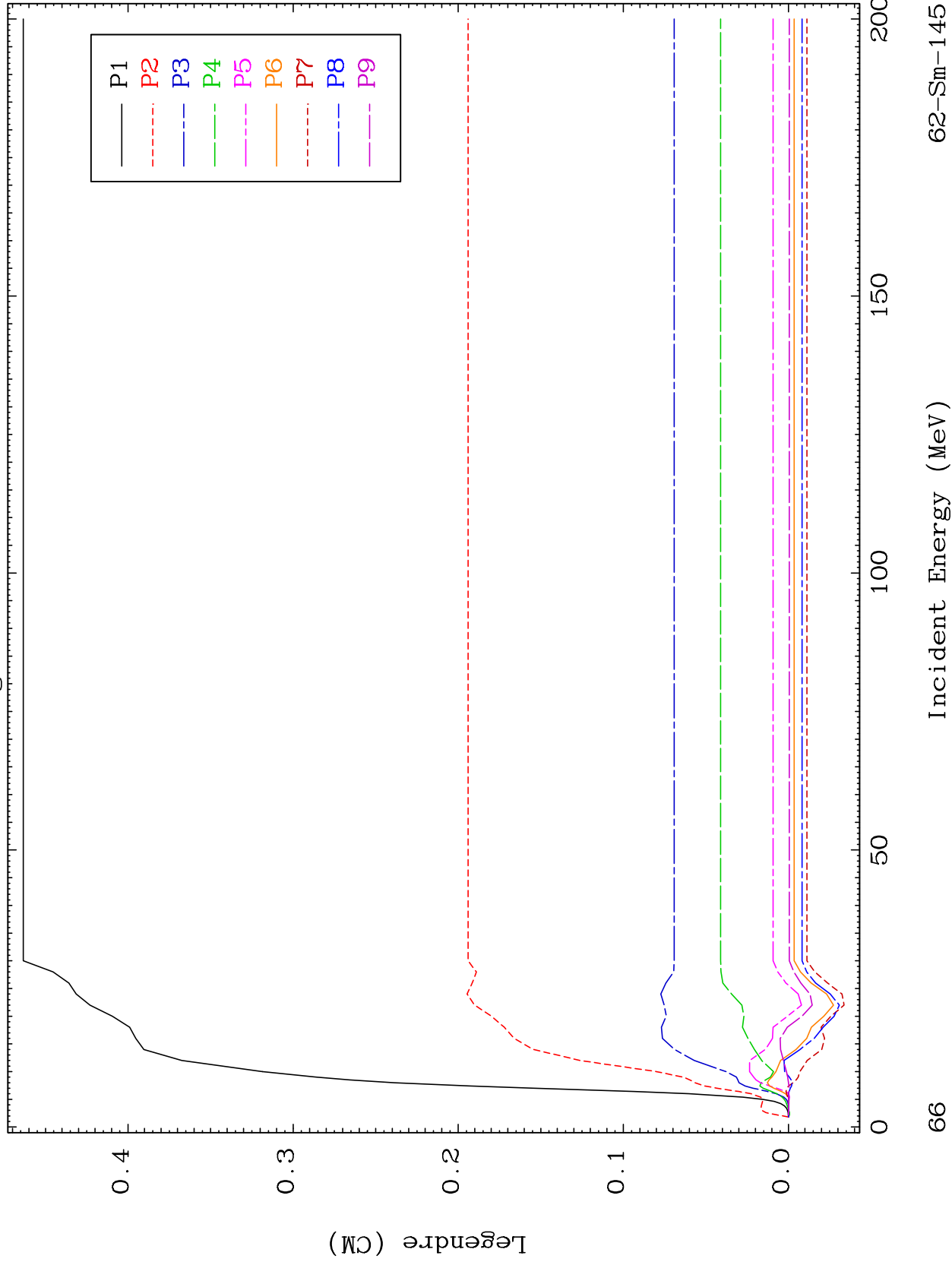
Incident Energy (MeV)

62-Sm-145

MAT 6228

1.777 MeV (n,n') Level  
Legendre Coefficients

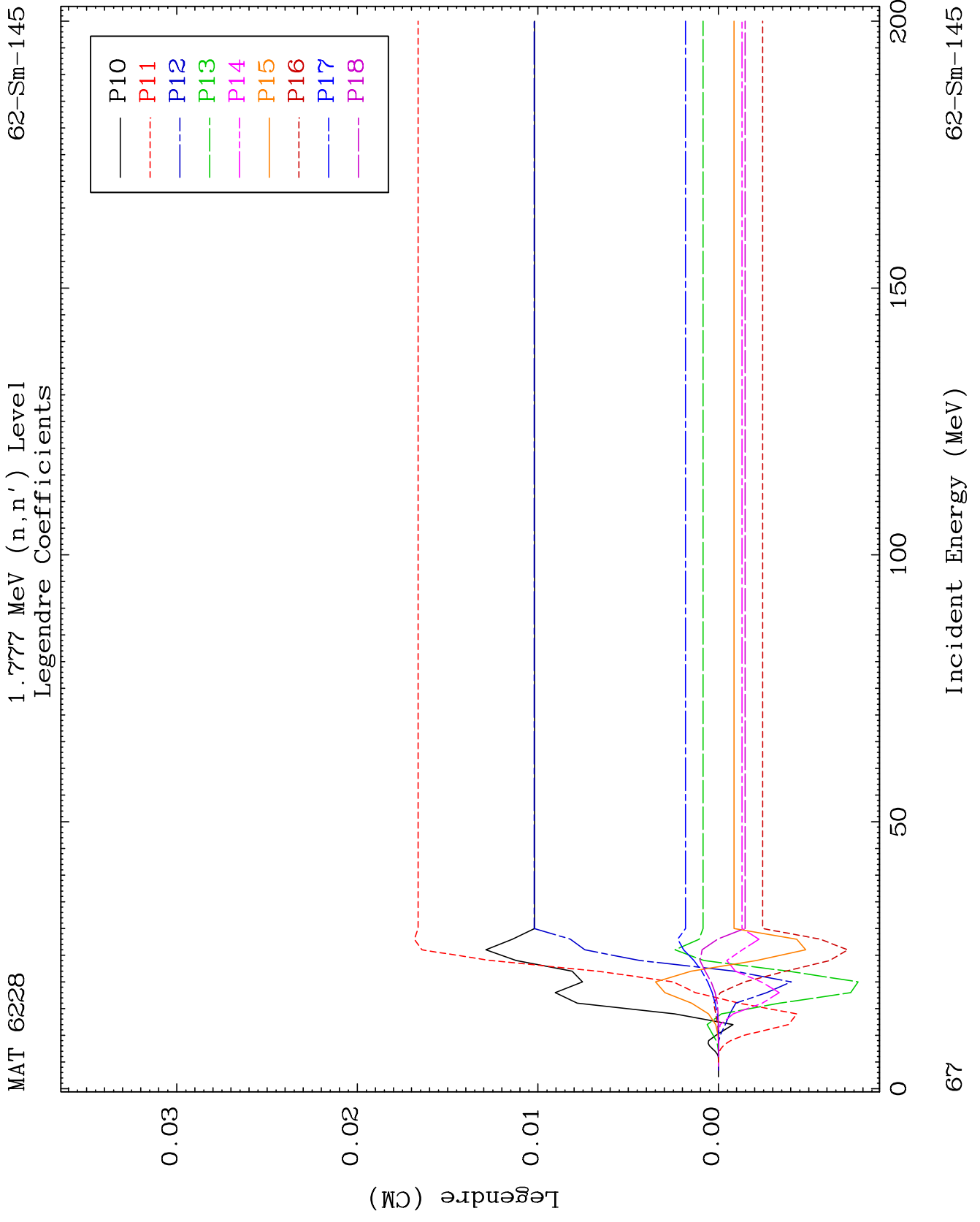
62-Sm-145

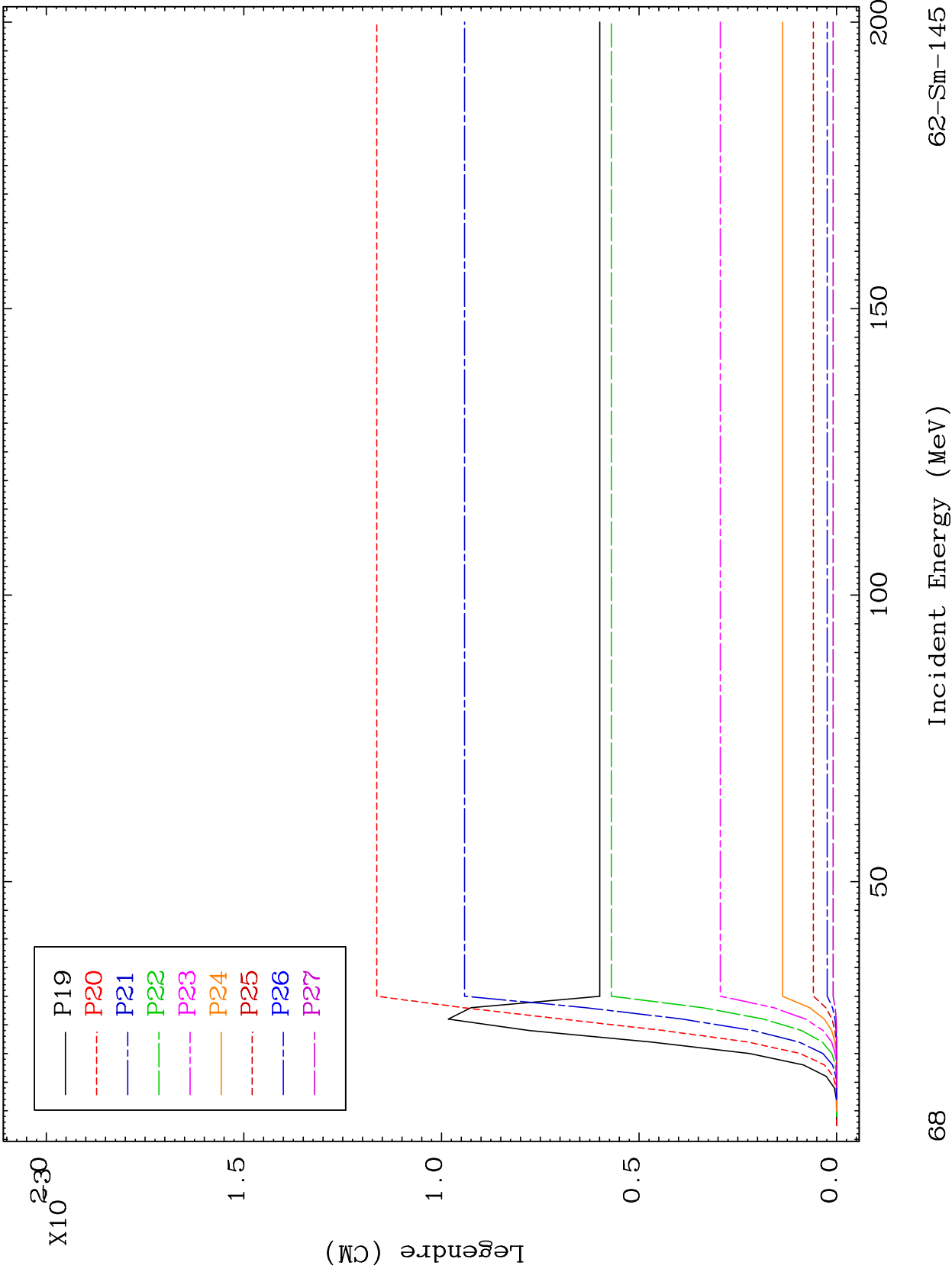


62-Sm-145

Incident Energy (MeV)

66

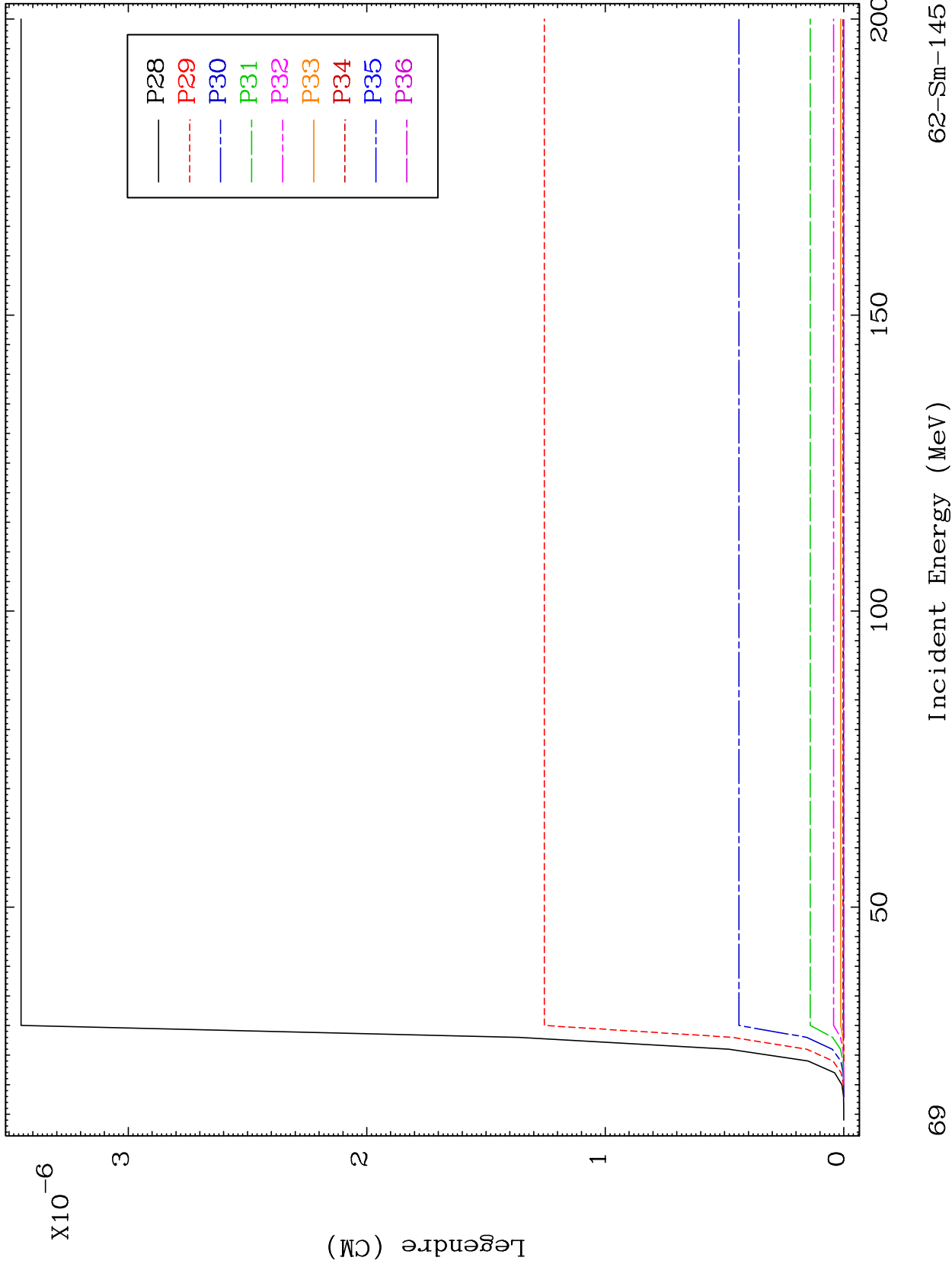




MAT 6228

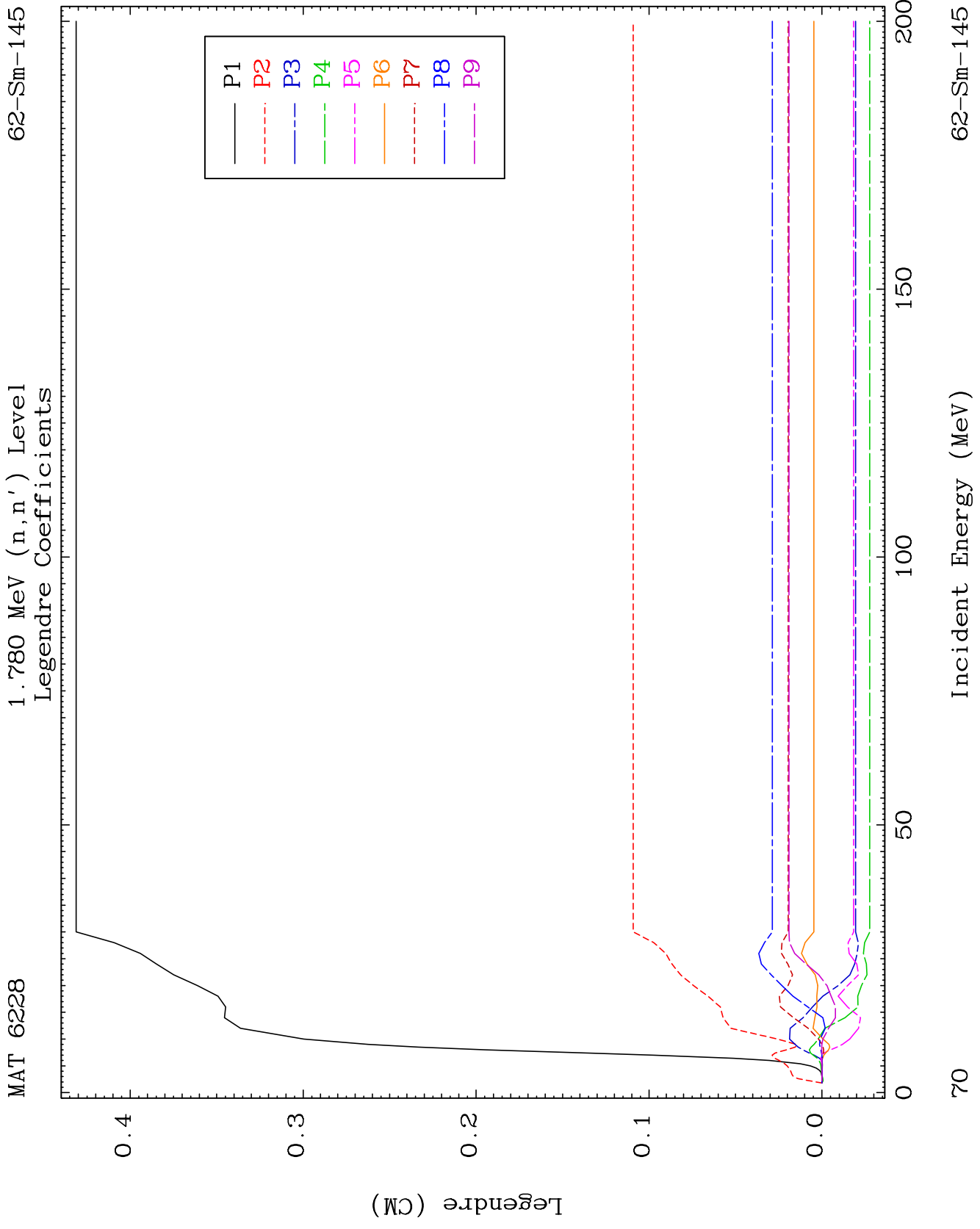
1.777 MeV (n,n') Level  
Legendre Coefficients

62-Sm-145



69

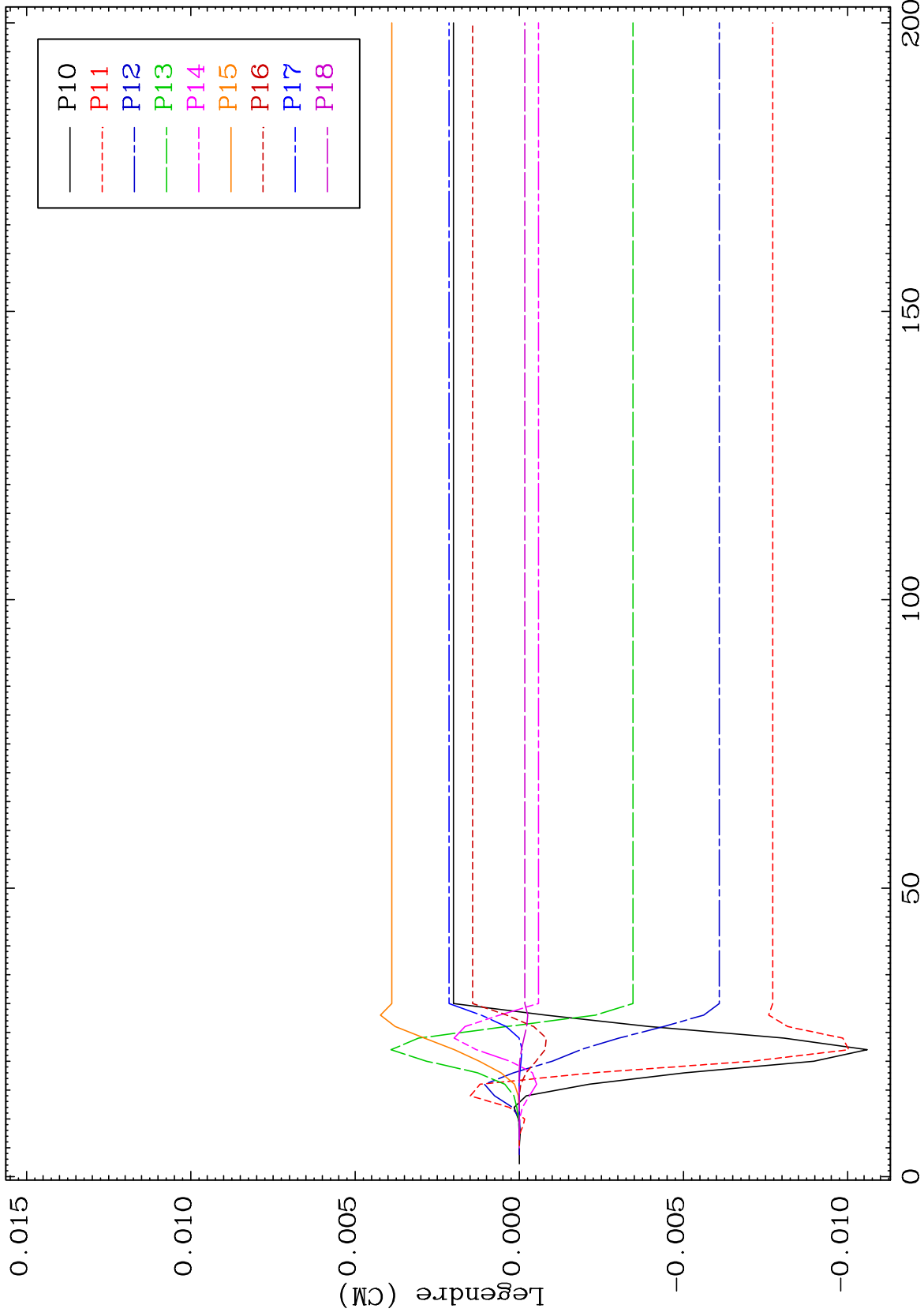
62-Sm-145



MAT 6228

1.780 MeV (n,n') Level  
Legendre Coefficients

62-Sm-145

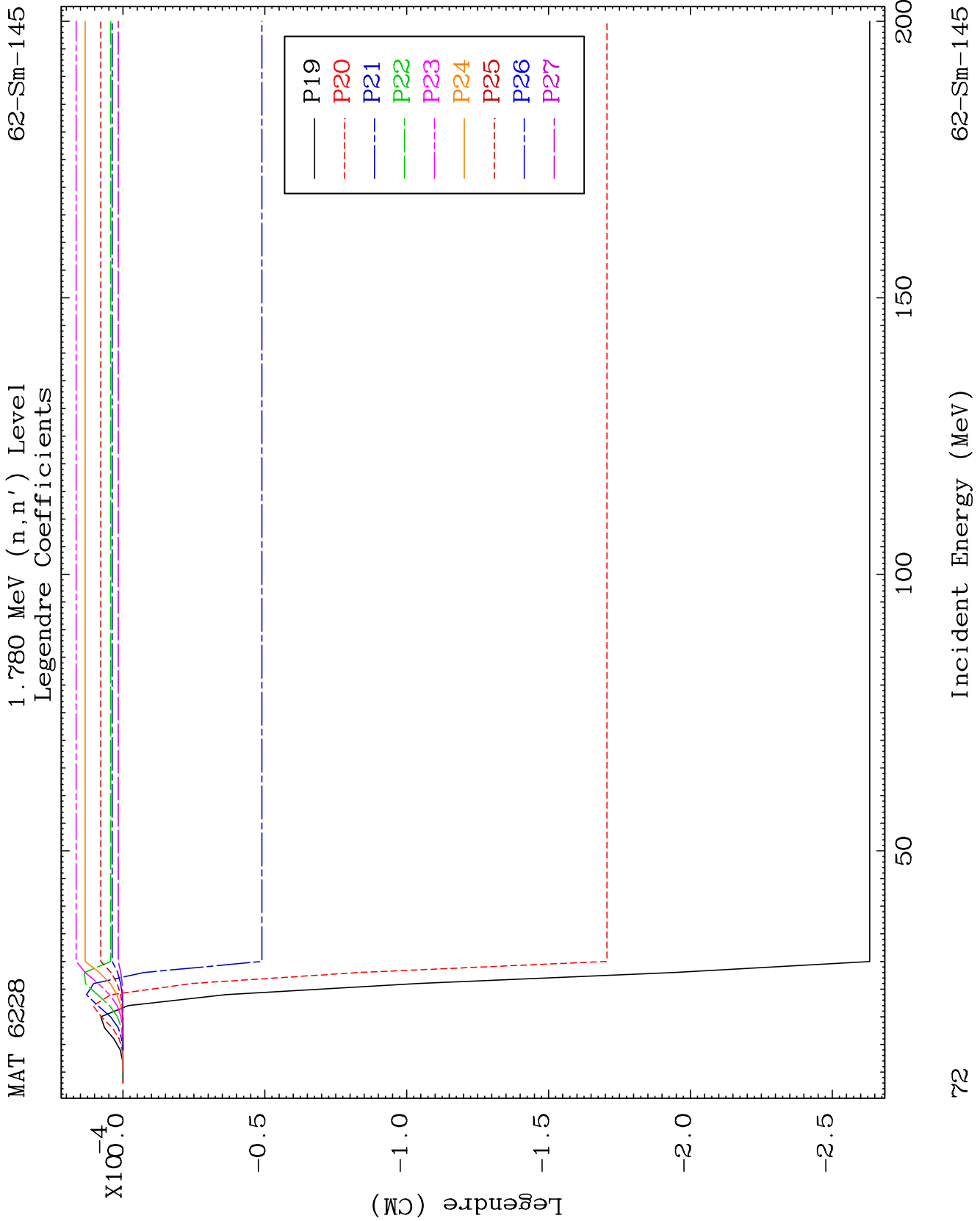


71

Incident Energy (MeV)

62-Sm-145

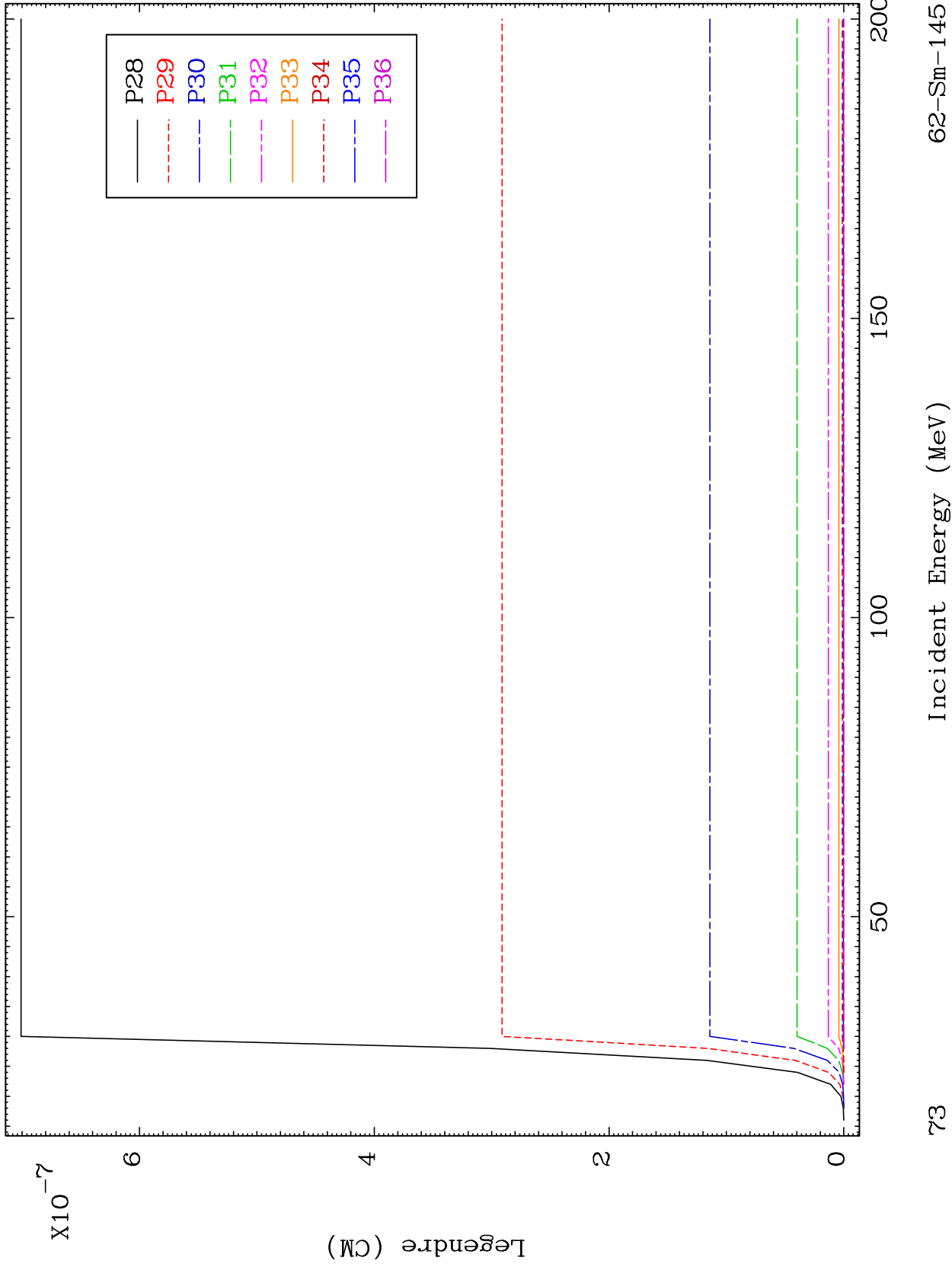




MAT 6228

1.780 MeV (n,n') Level  
Legendre Coefficients

62-Sm-145



73

Incident Energy (MeV)

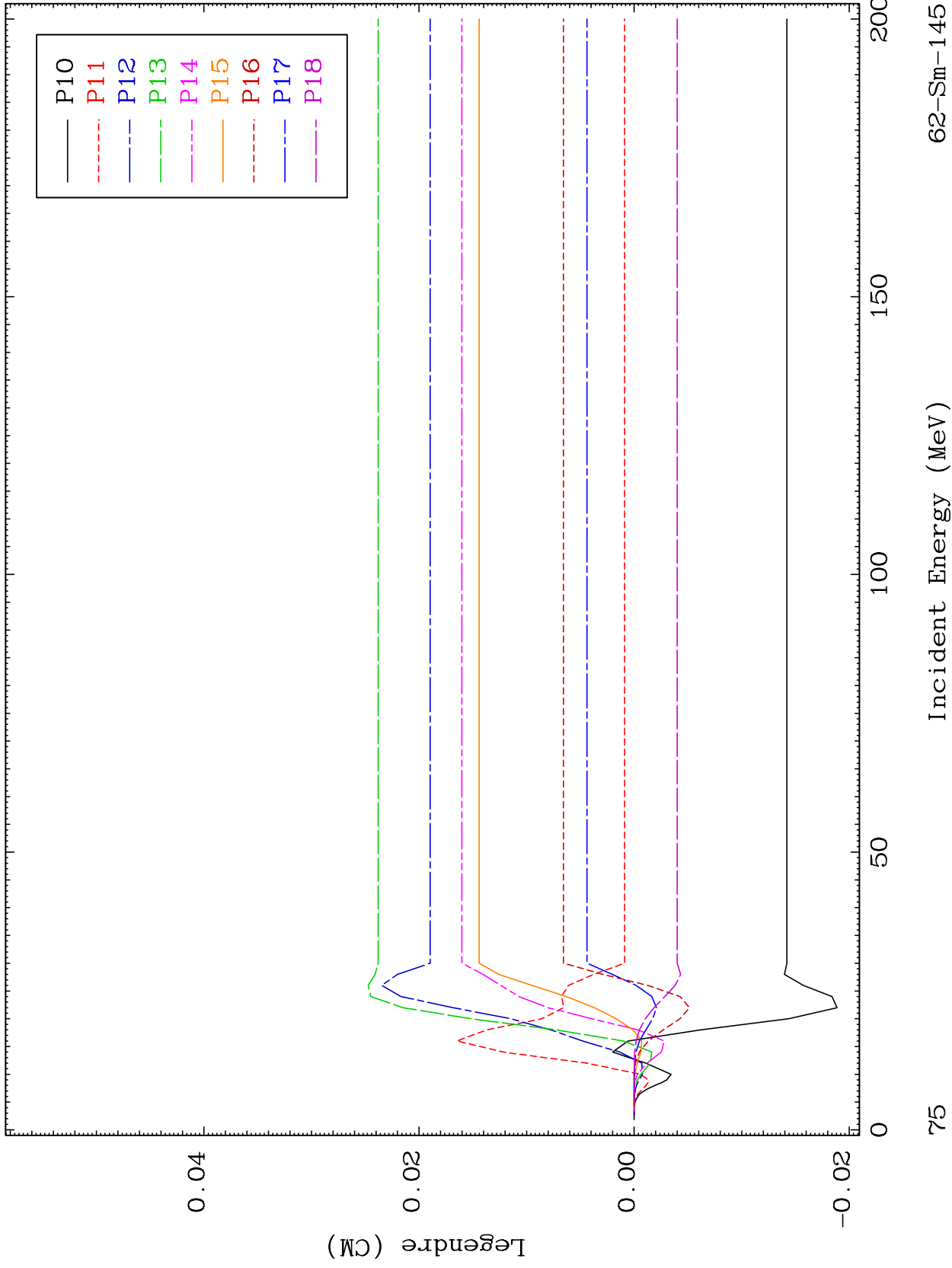
62-Sm-145



MAT 6228

1.804 MeV (n,n') Level  
Legendre Coefficients

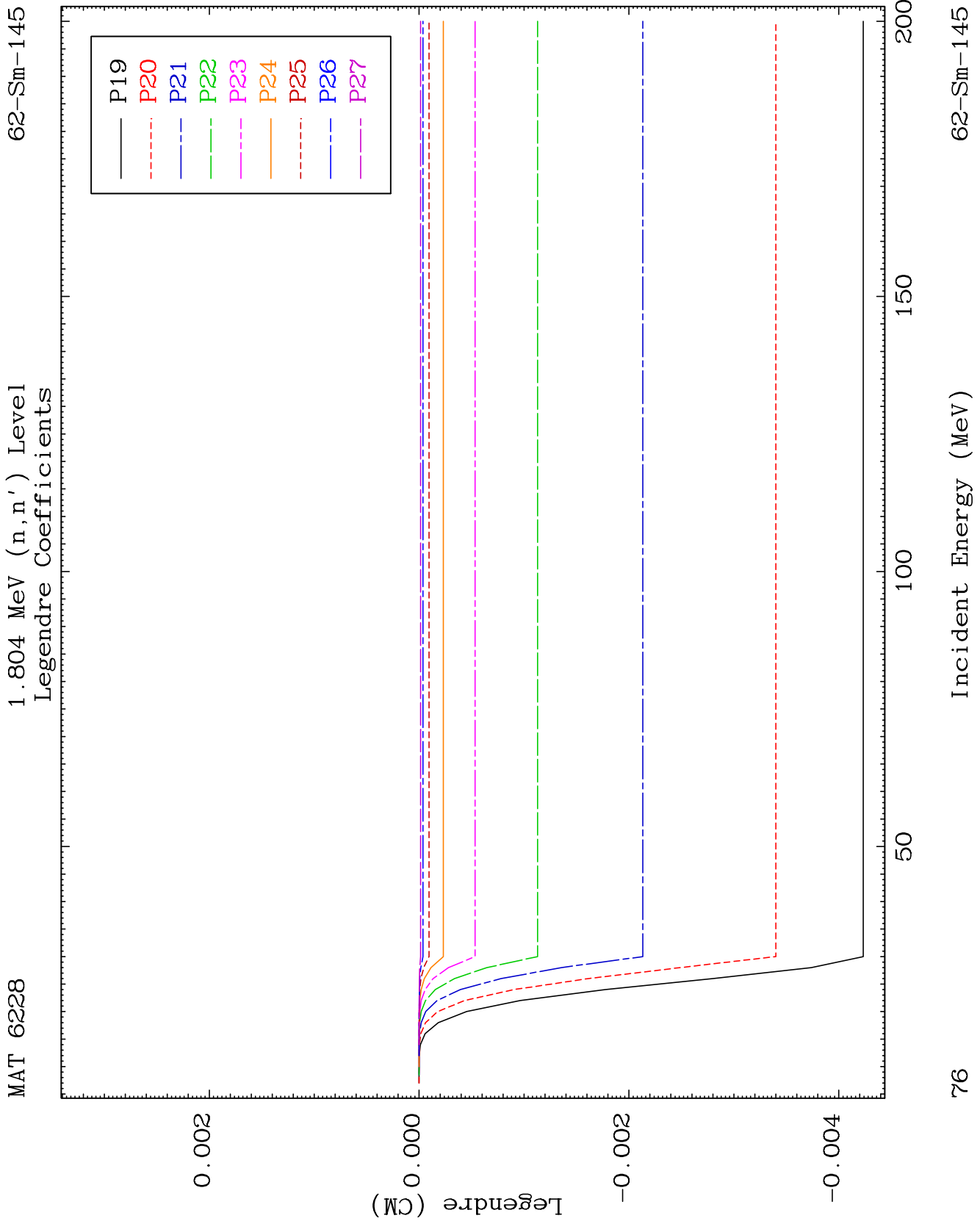
62-Sm-145



62-Sm-145

Incident Energy (MeV)

75



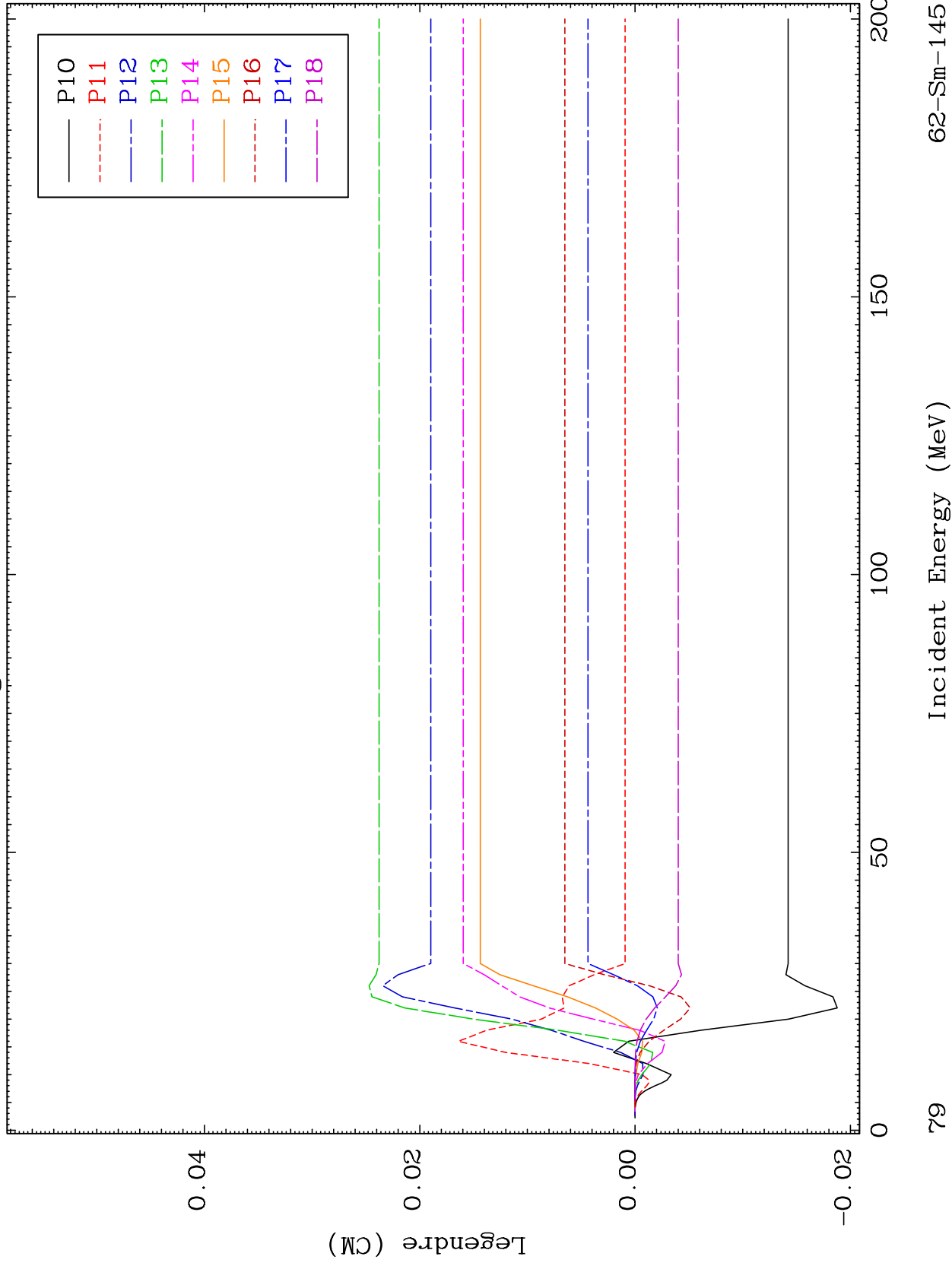




MAT 6228

1.848 MeV (n,n') Level  
Legendre Coefficients

62-Sm-145

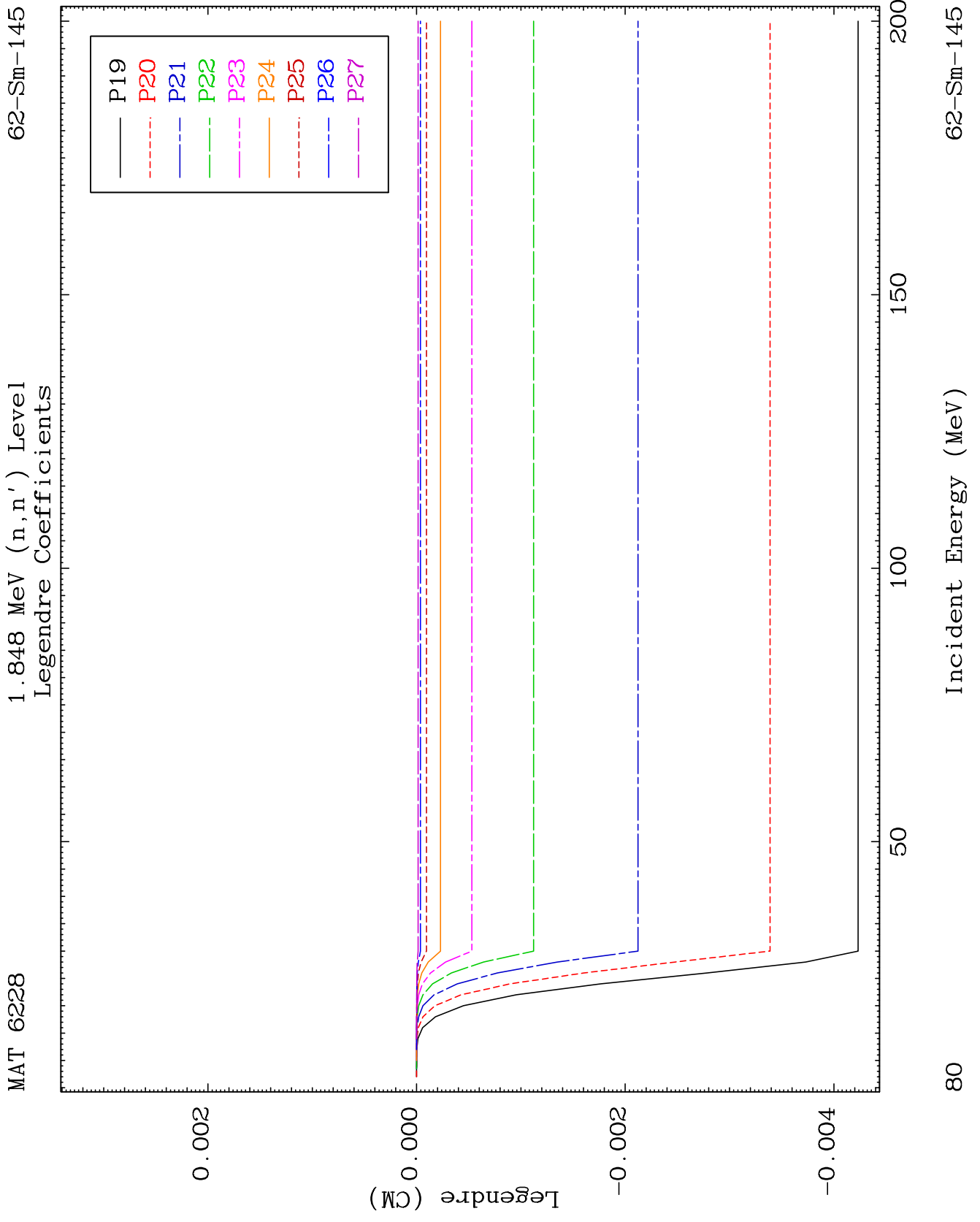


79

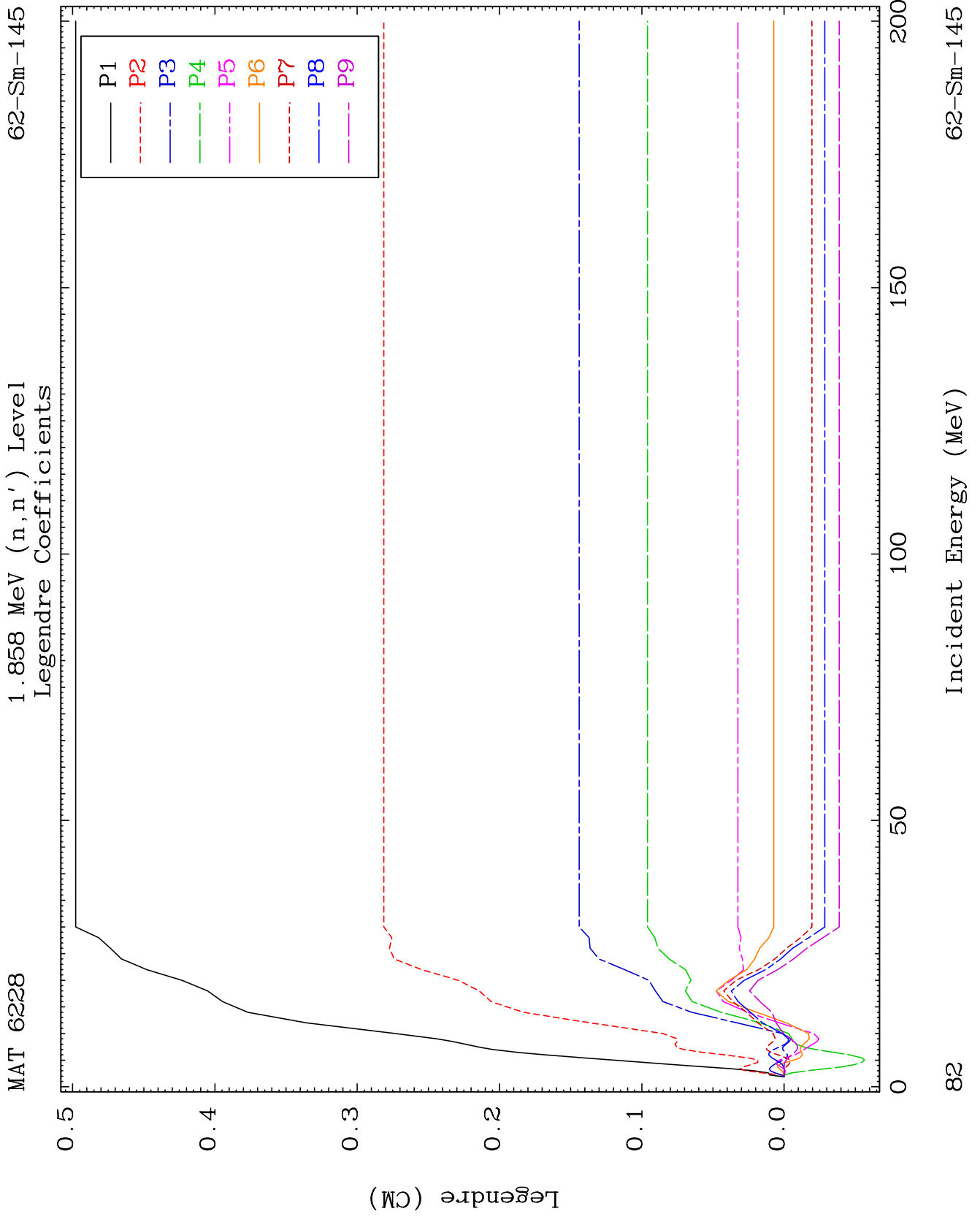
Incident Energy (MeV)

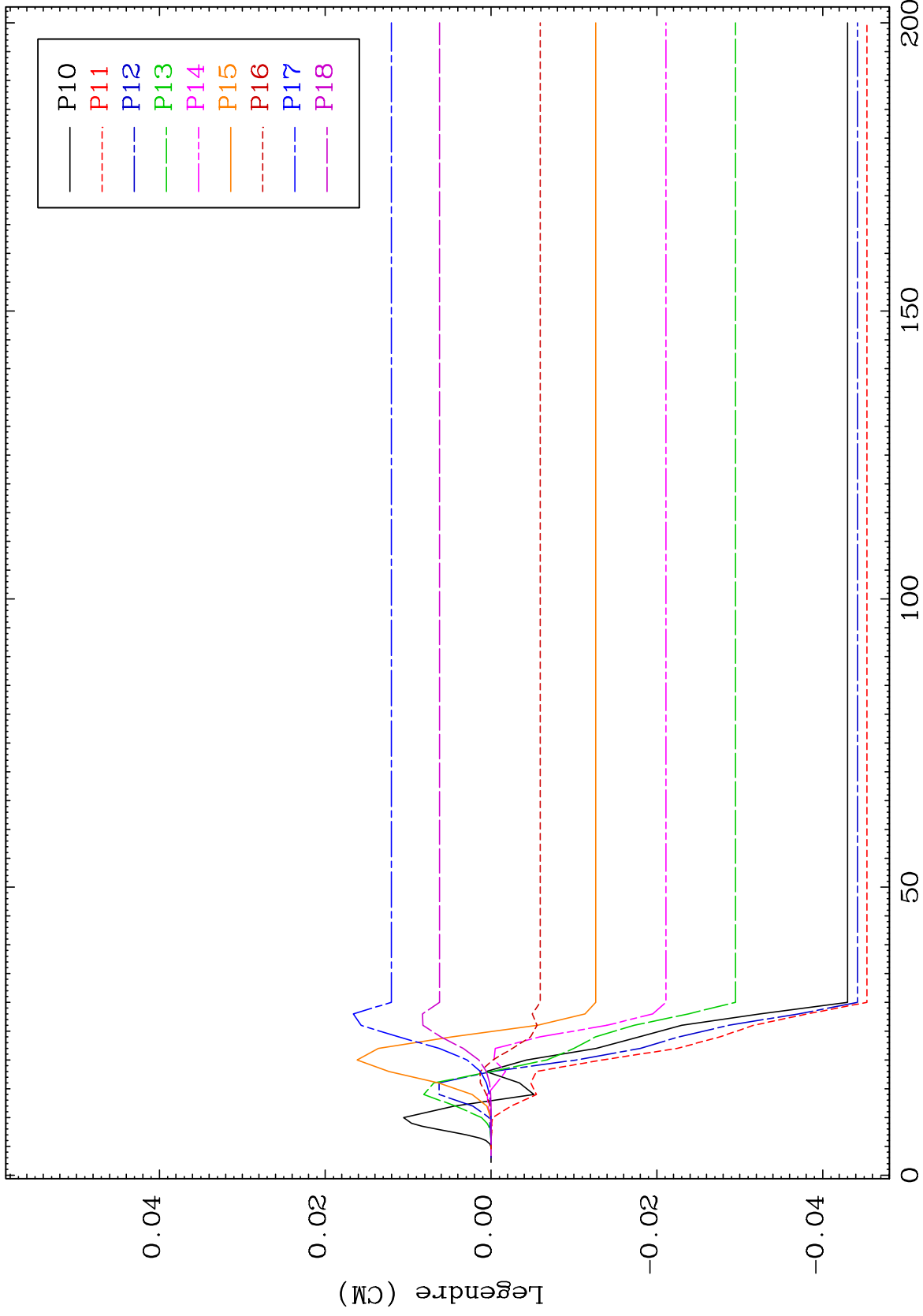
62-Sm-145



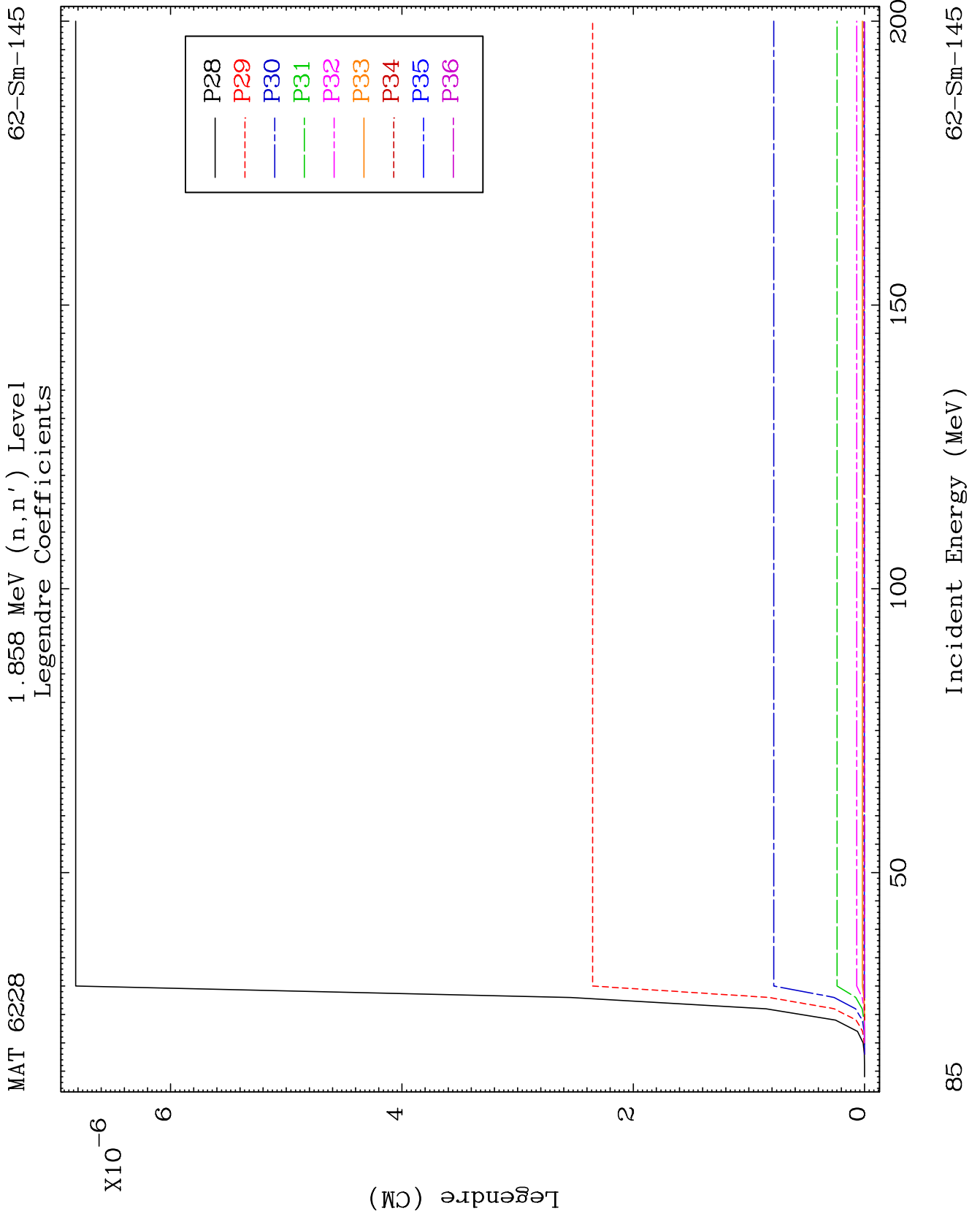








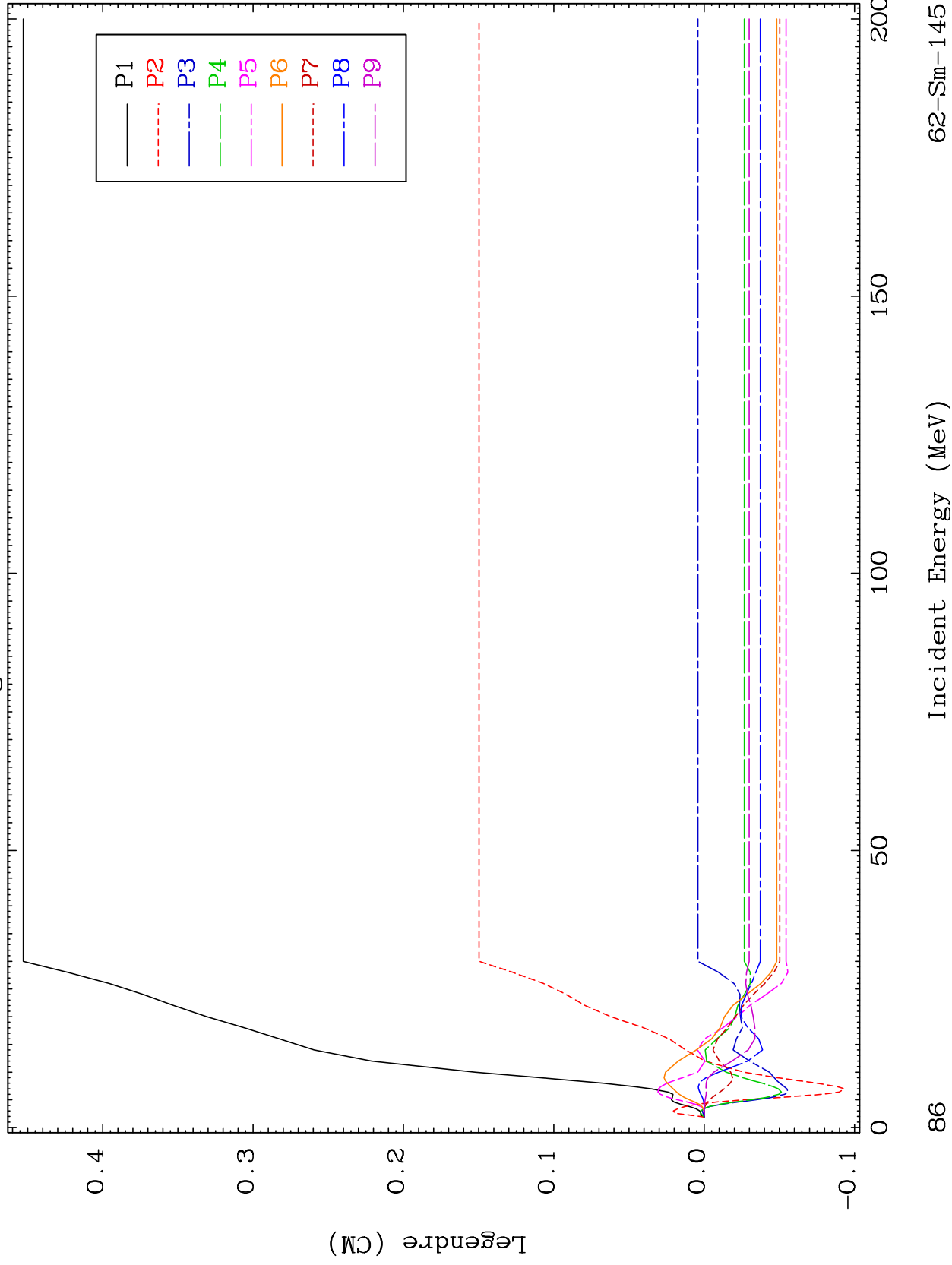




MAT 6228

1.877 MeV (n,n') Level  
Legendre Coefficients

62-Sm-145



62-Sm-145

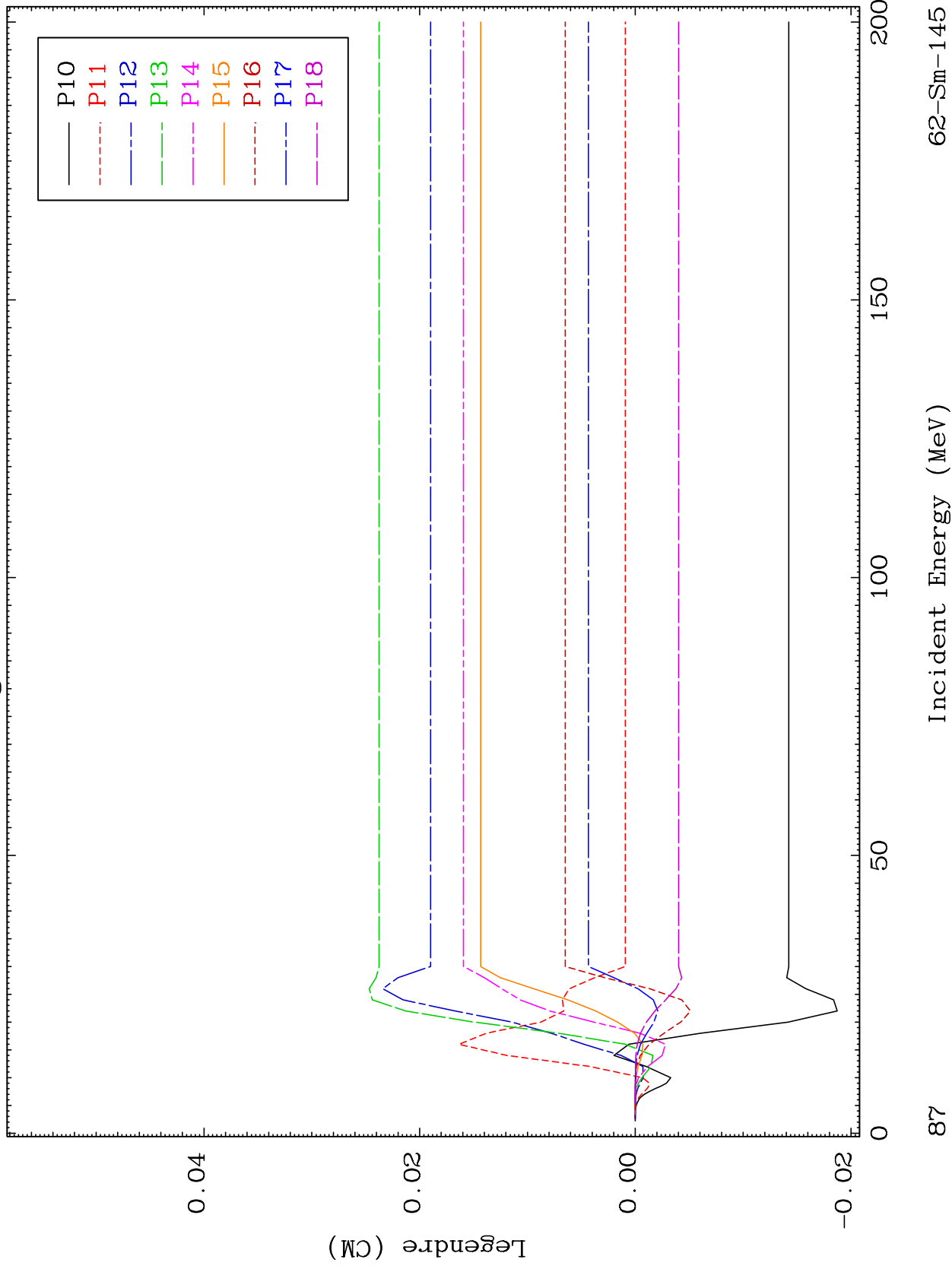
Incident Energy (MeV)

86

MAT 6228

1.877 MeV (n,n') Level  
Legendre Coefficients

62-Sm-145



87

Incident Energy (MeV)

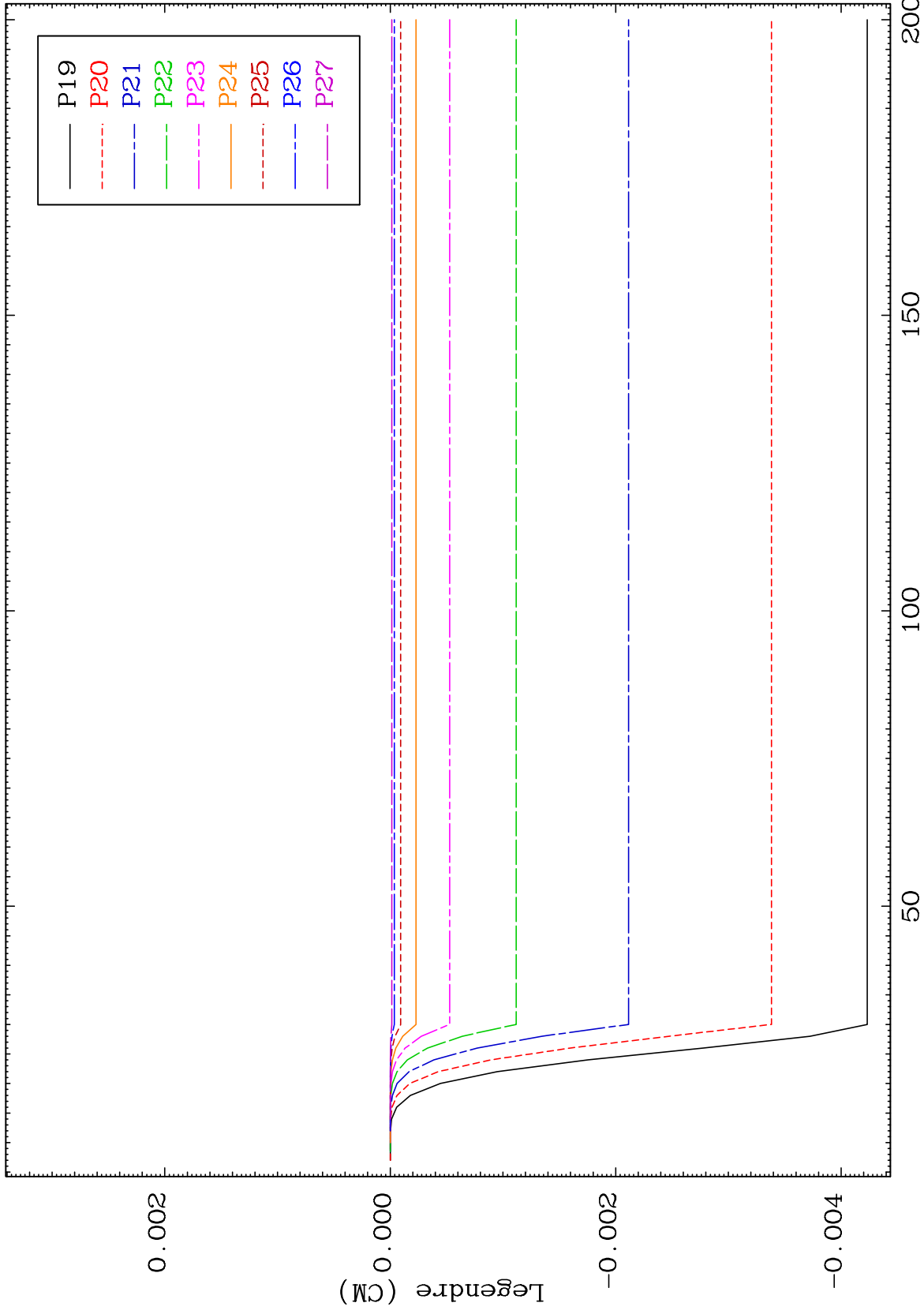
62-Sm-145



MAT 6228

1.877 MeV (n,n') Level  
Legendre Coefficients

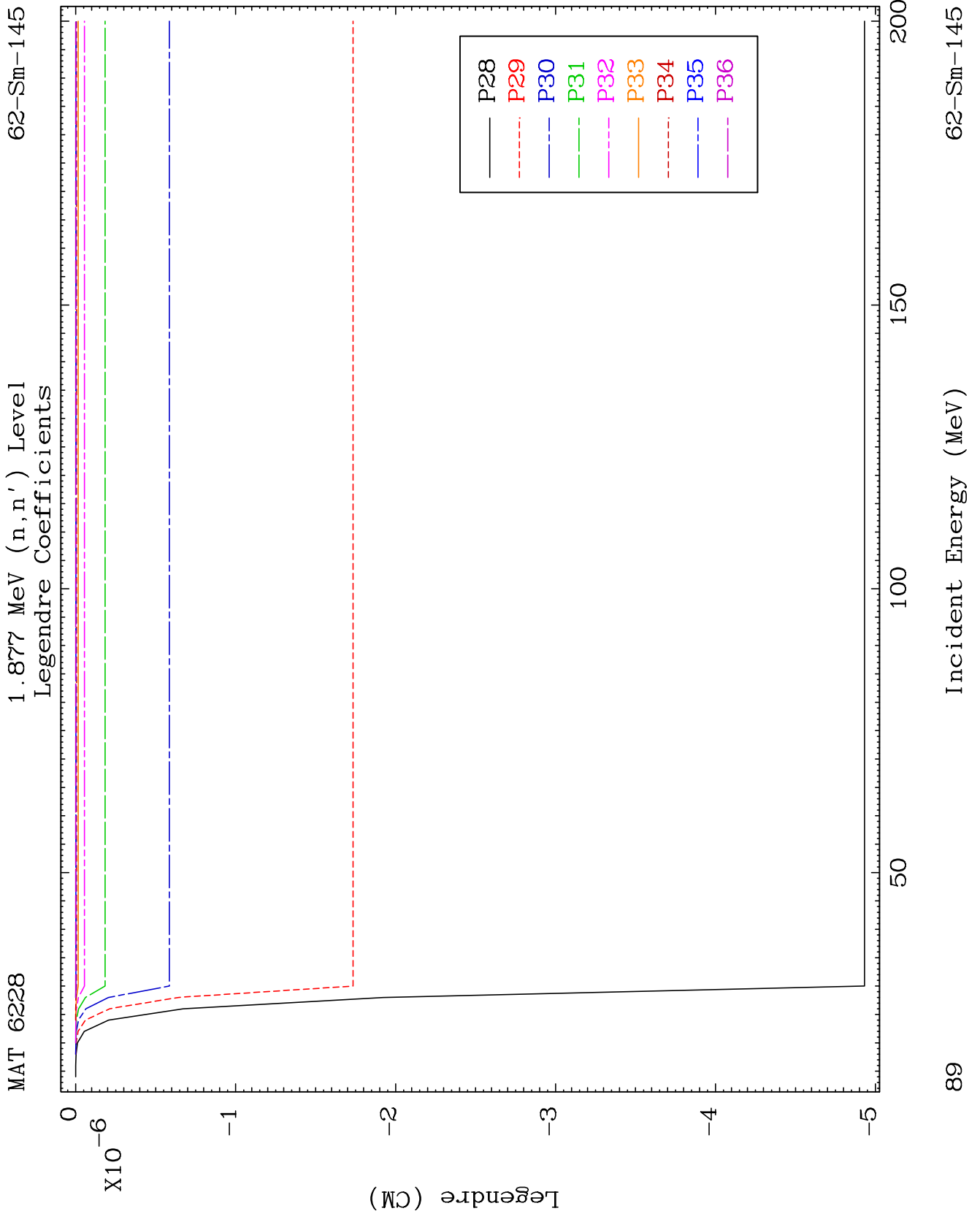
62-Sm-145



88

Incident Energy (MeV)

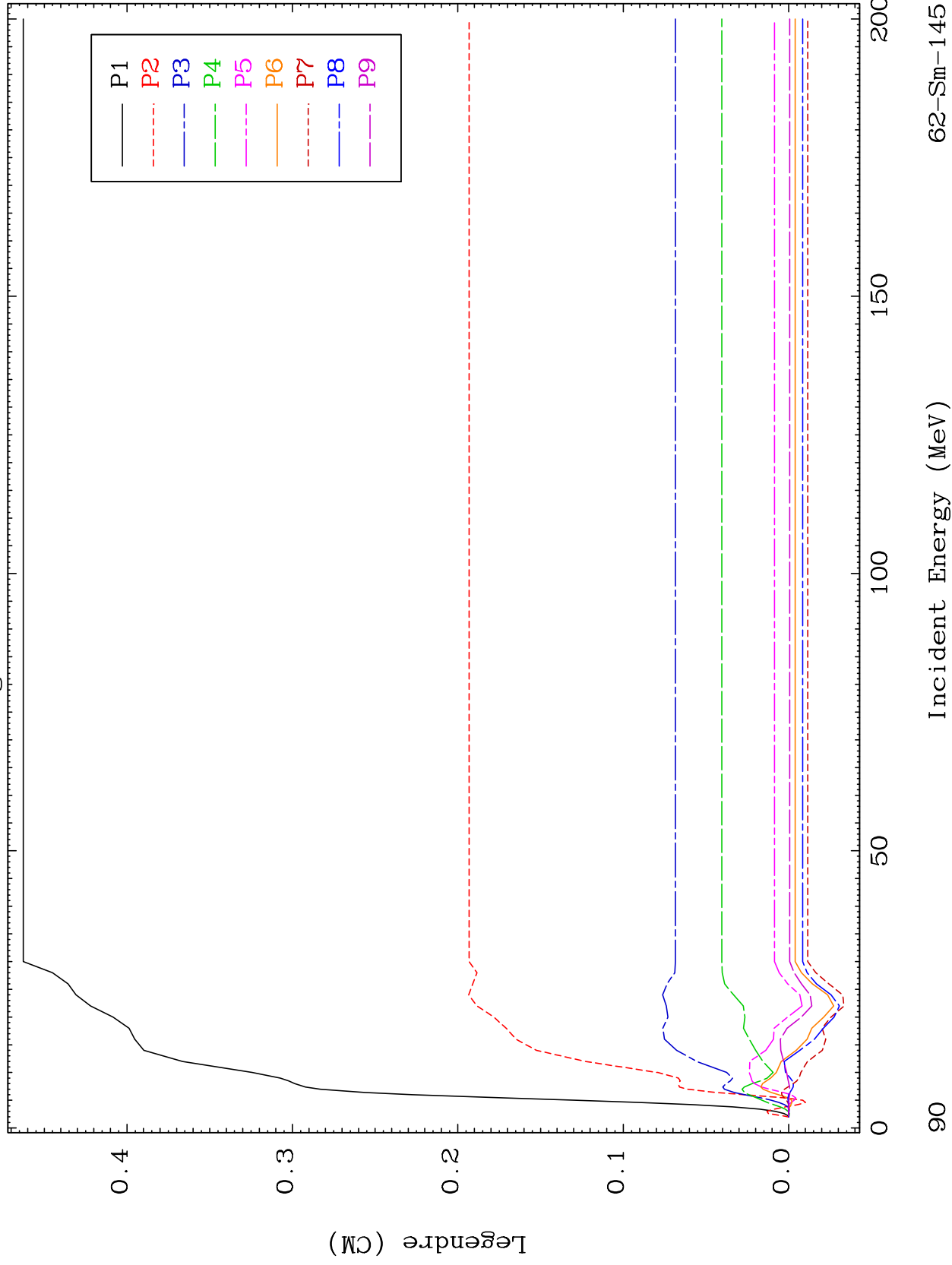
62-Sm-145



MAT 6228

1.951 MeV (n,n') Level  
Legendre Coefficients

62-Sm-145

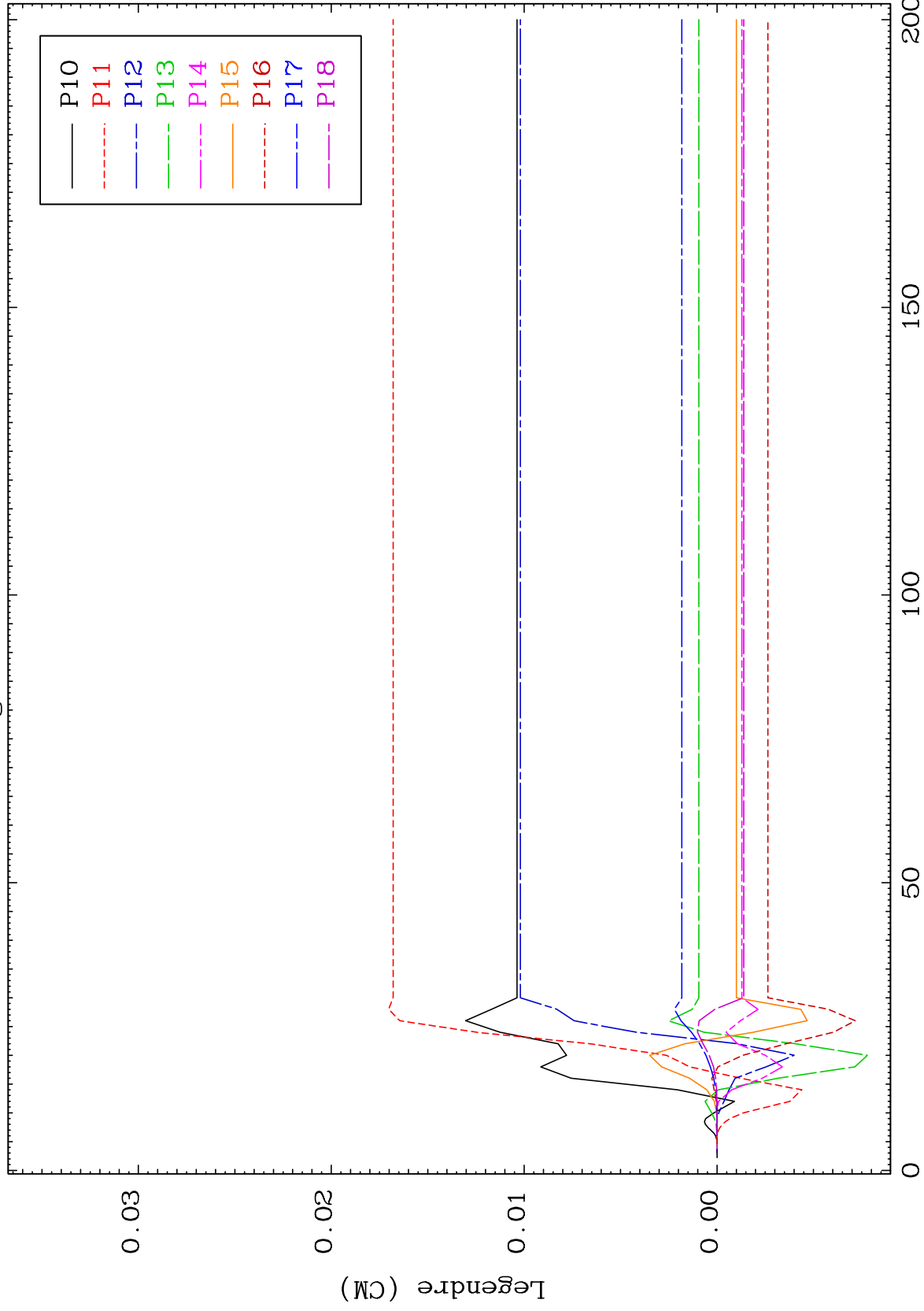


62-Sm-145

MAT 6228

1.951 MeV (n,n') Level  
Legendre Coefficients

62-Sm-145



91

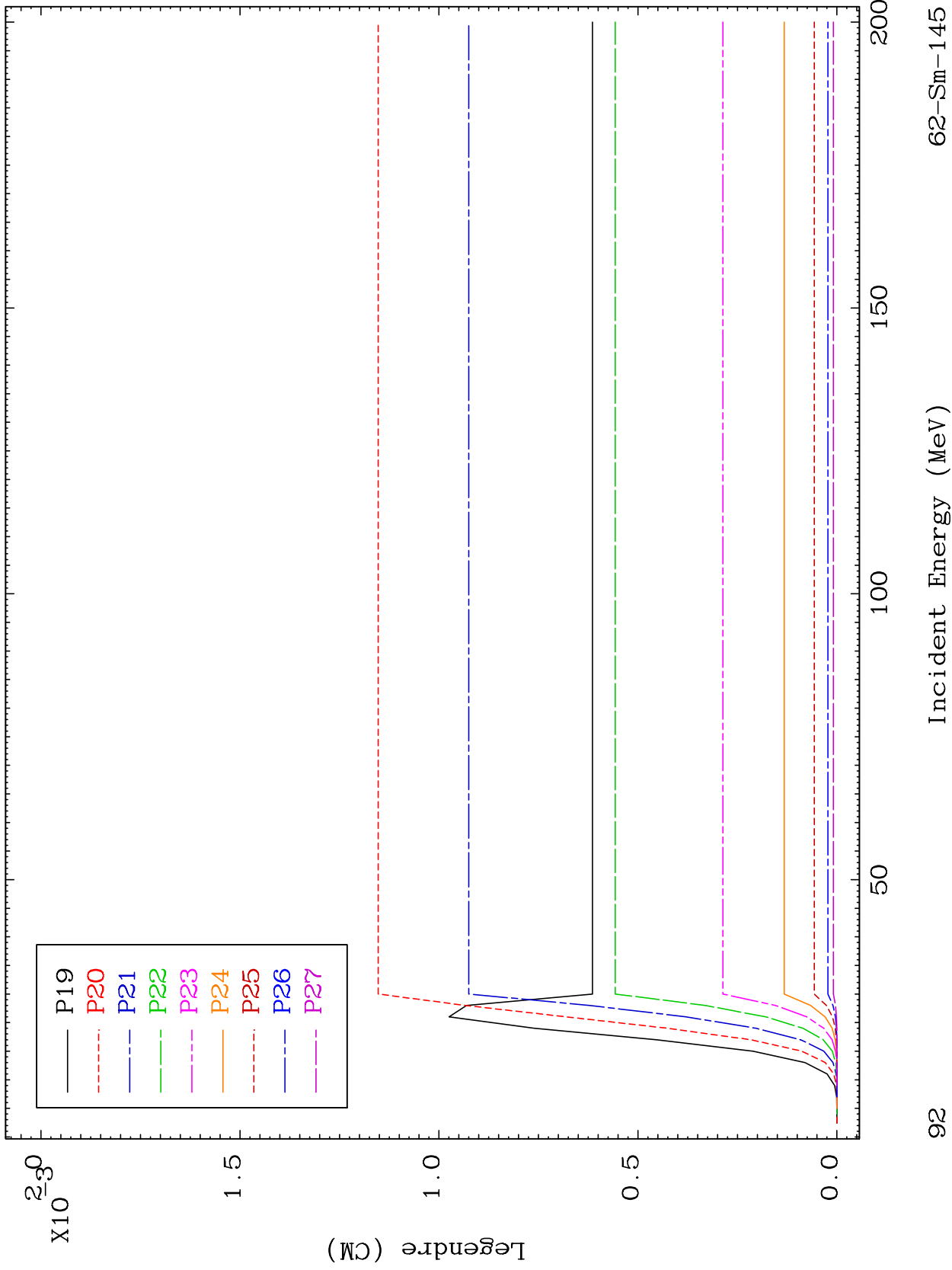
Incident Energy (MeV)

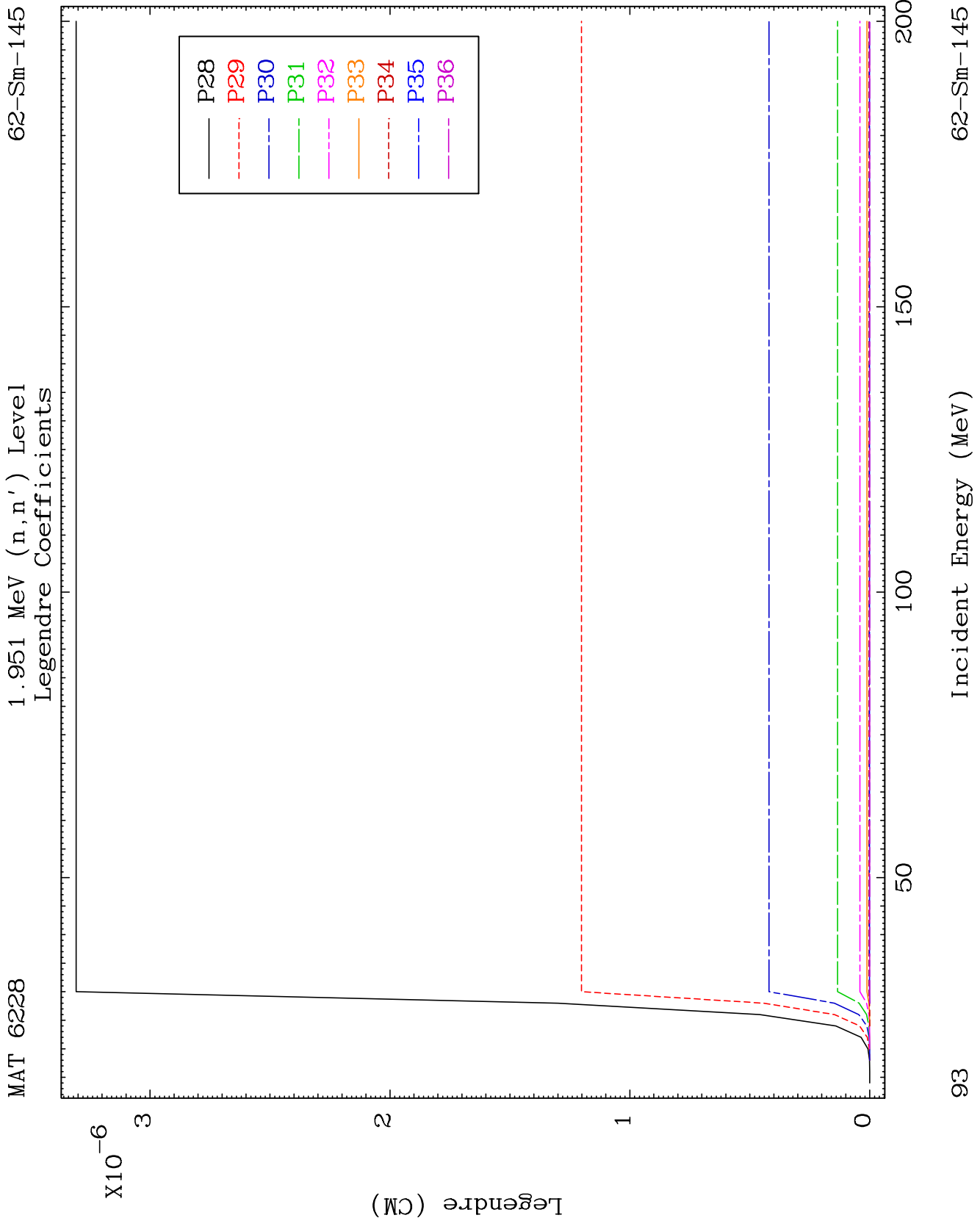
62-Sm-145

MAT 6228

1.951 MeV (n,n') Level  
Legendre Coefficients

62-Sm-145

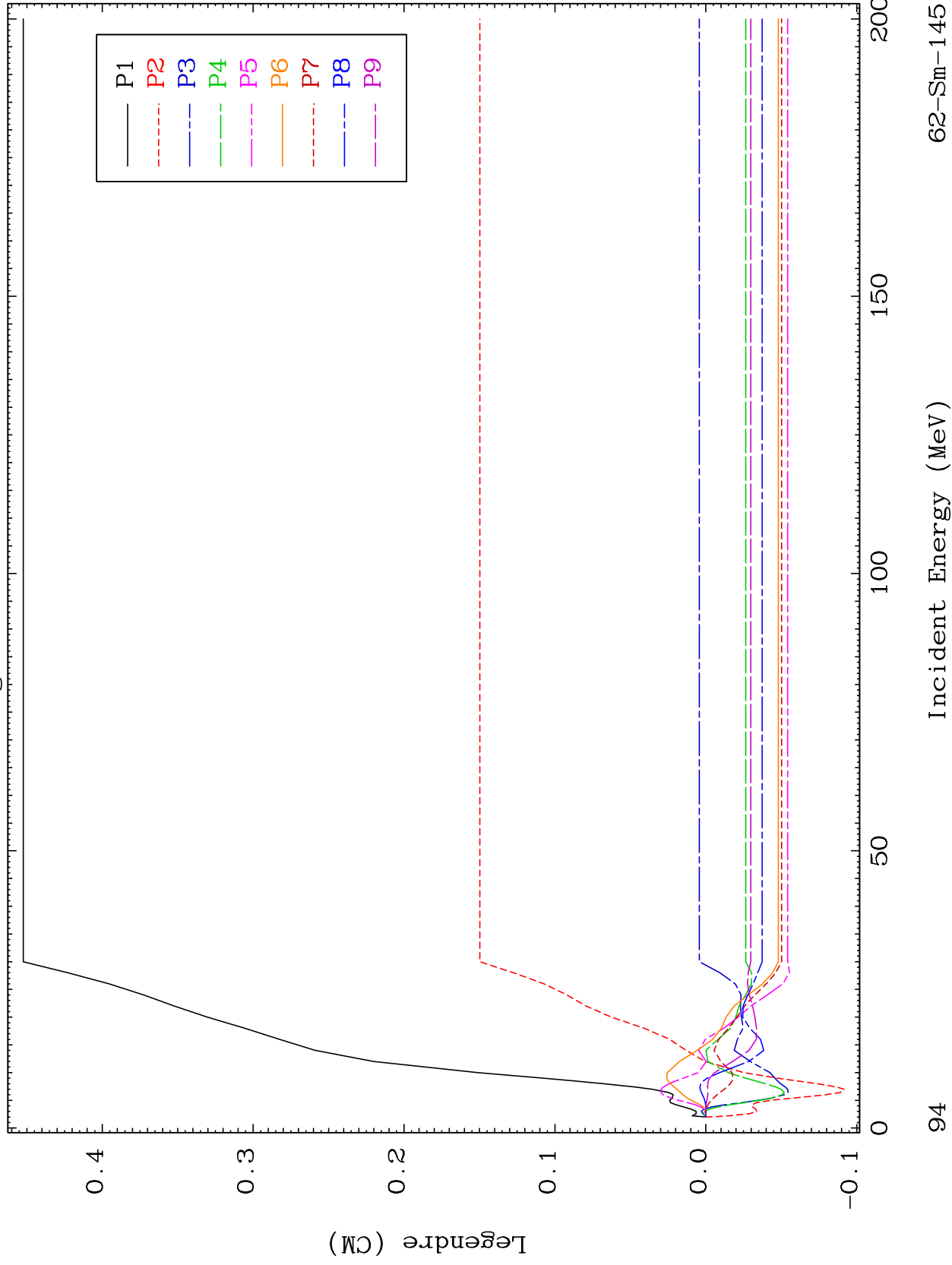




MAT 6228

1.963 MeV (n,n') Level  
Legendre Coefficients

62-Sm-145



62-Sm-145

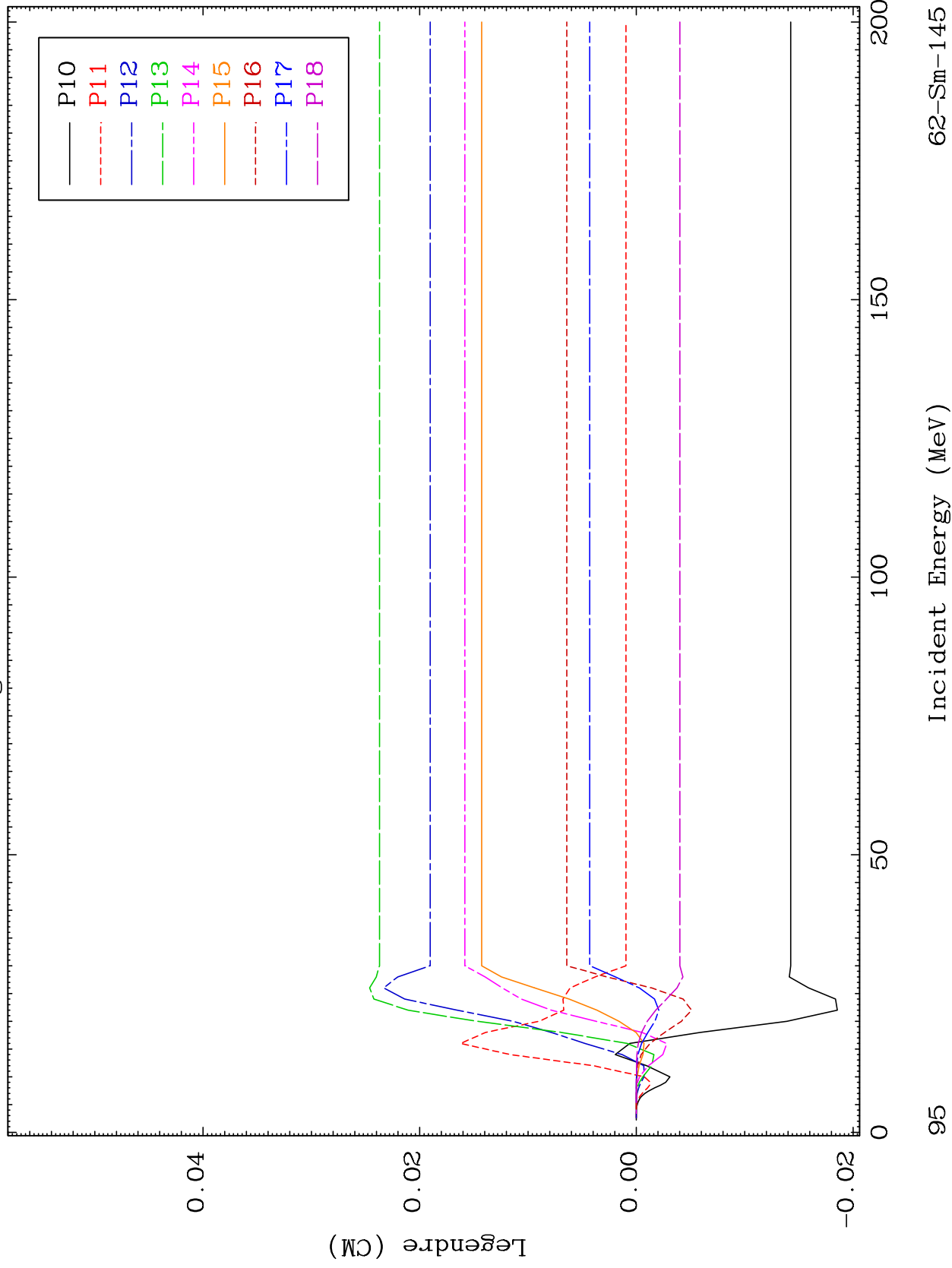
Incident Energy (MeV)

94

MAT 6228

1.963 MeV (n,n') Level  
Legendre Coefficients

62-Sm-145



62-Sm-145

Incident Energy (MeV)

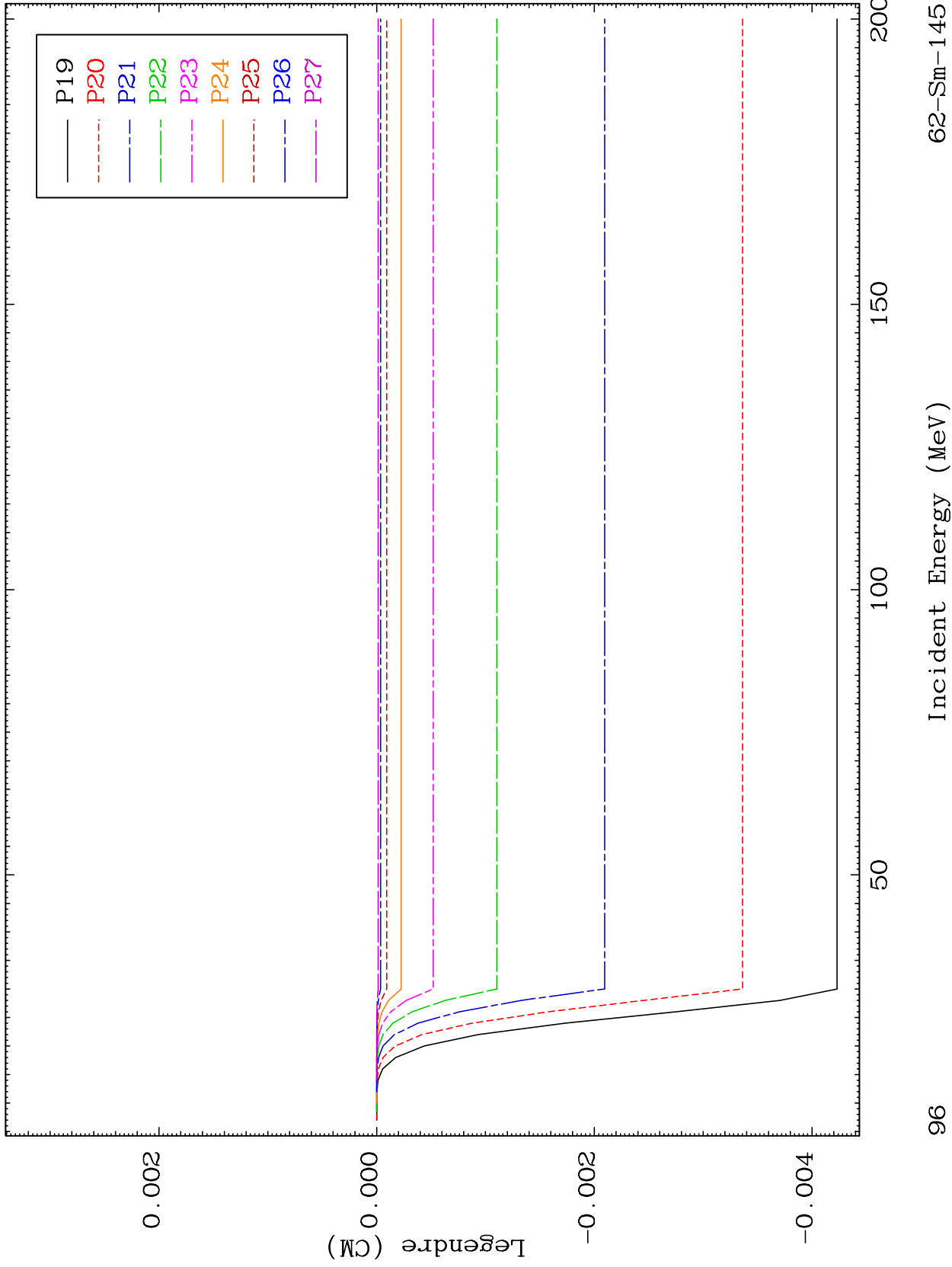
95



MAT 6228

1.963 MeV (n,n') Level  
Legendre Coefficients

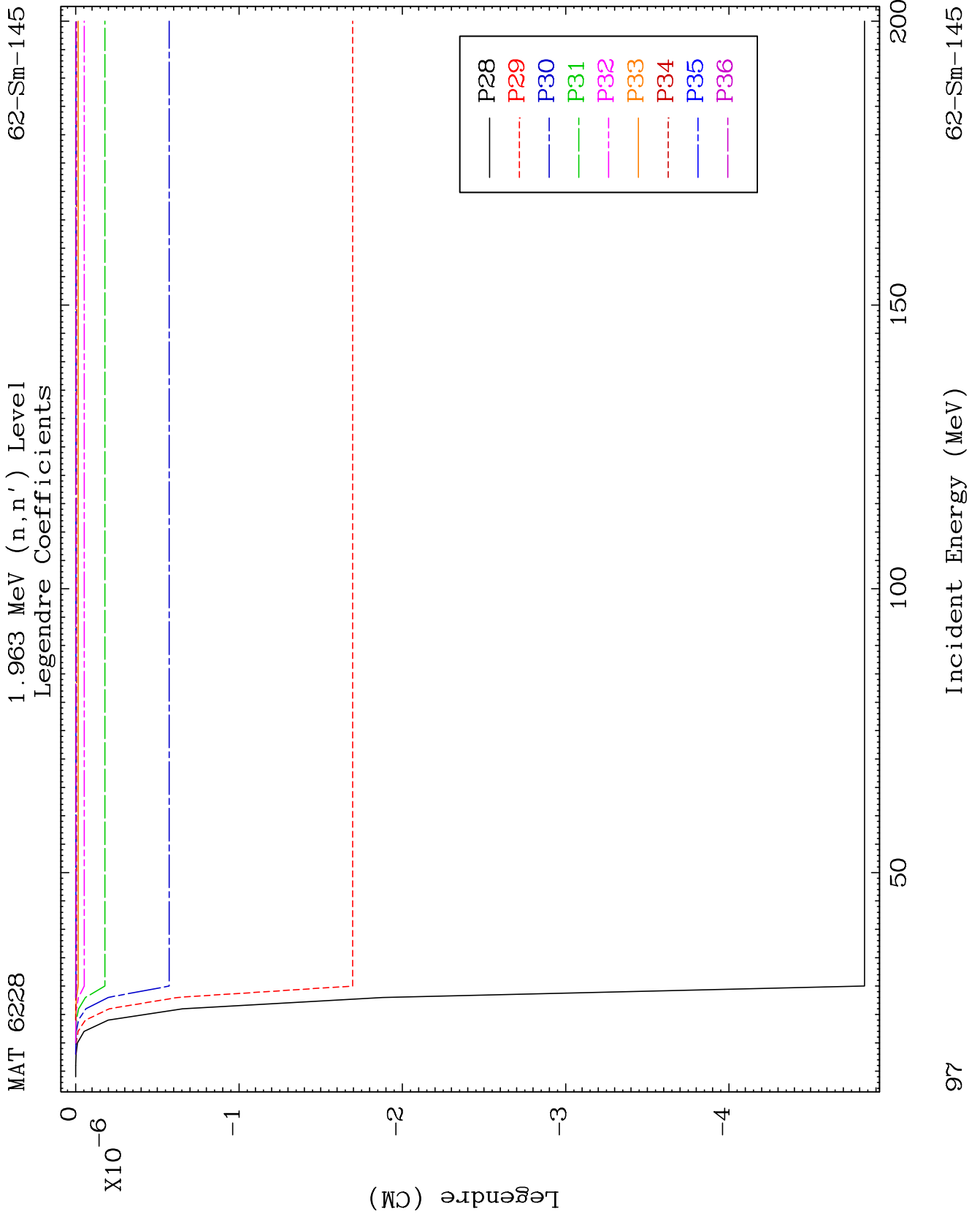
62-Sm-145



96

Incident Energy (MeV)

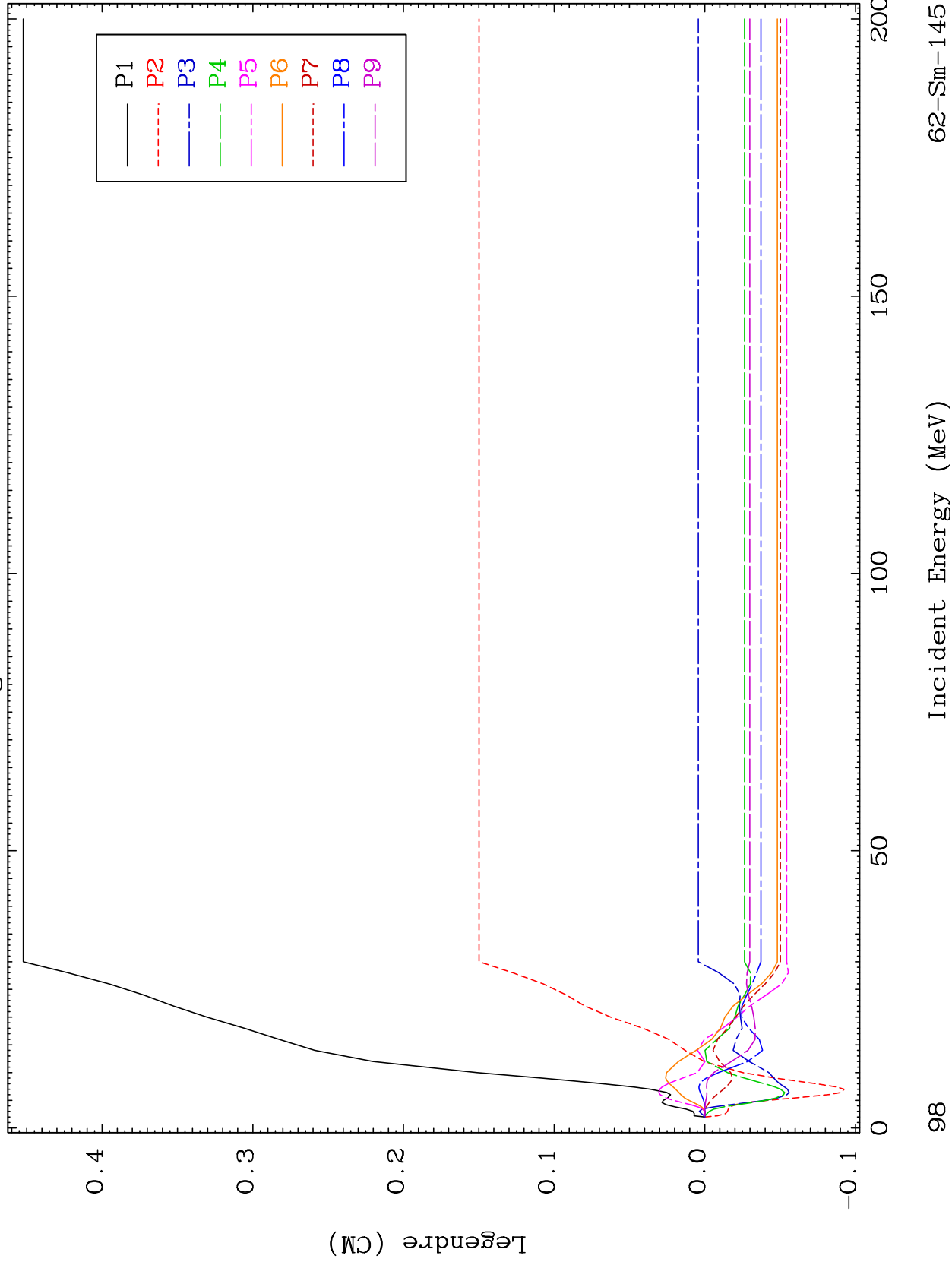
62-Sm-145



MAT 6228

1.966 MeV (n,n') Level  
Legendre Coefficients

62-Sm-145



98

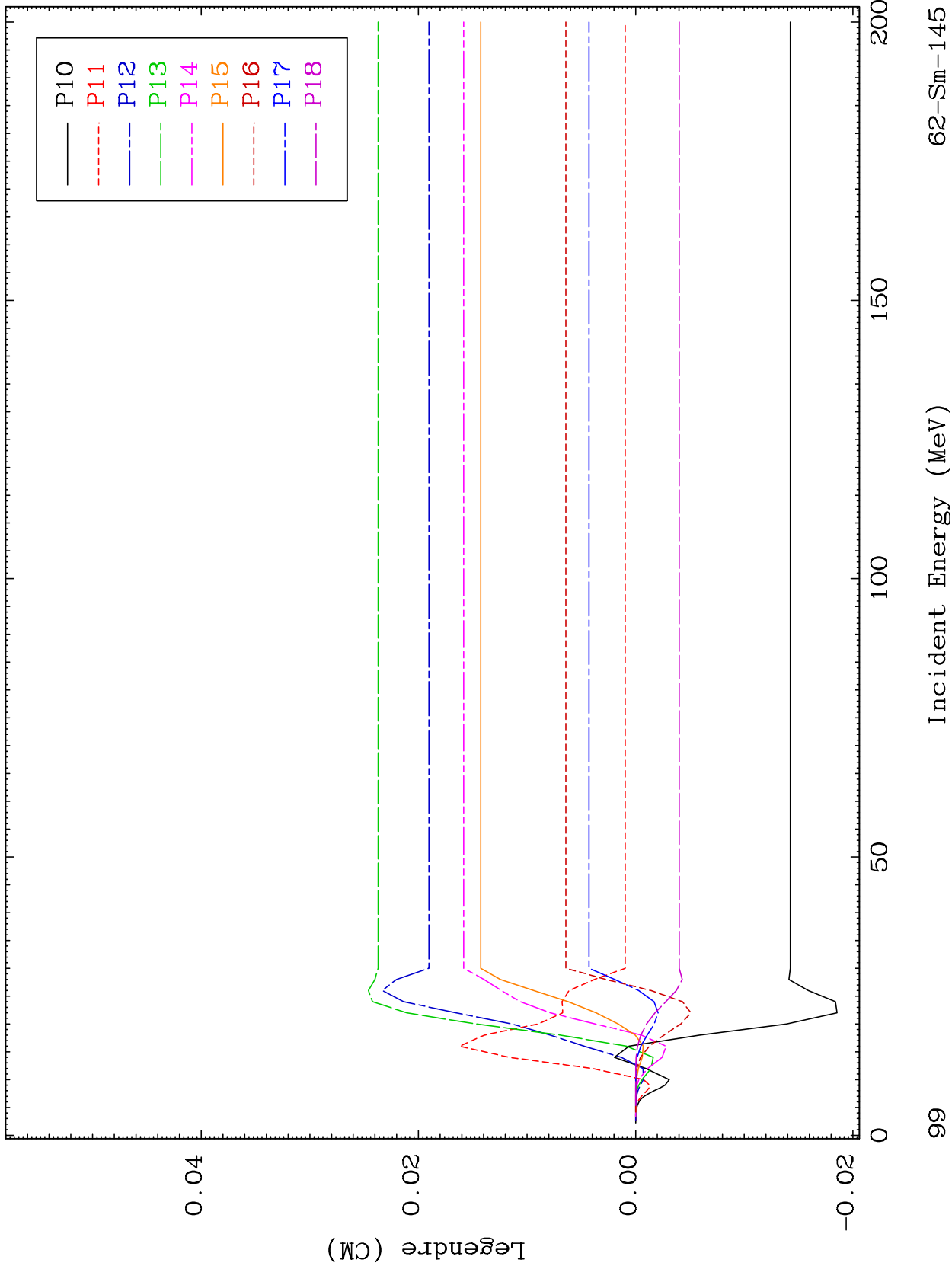
Incident Energy (MeV)

62-Sm-145

MAT 6228

1.966 MeV (n,n') Level  
Legendre Coefficients

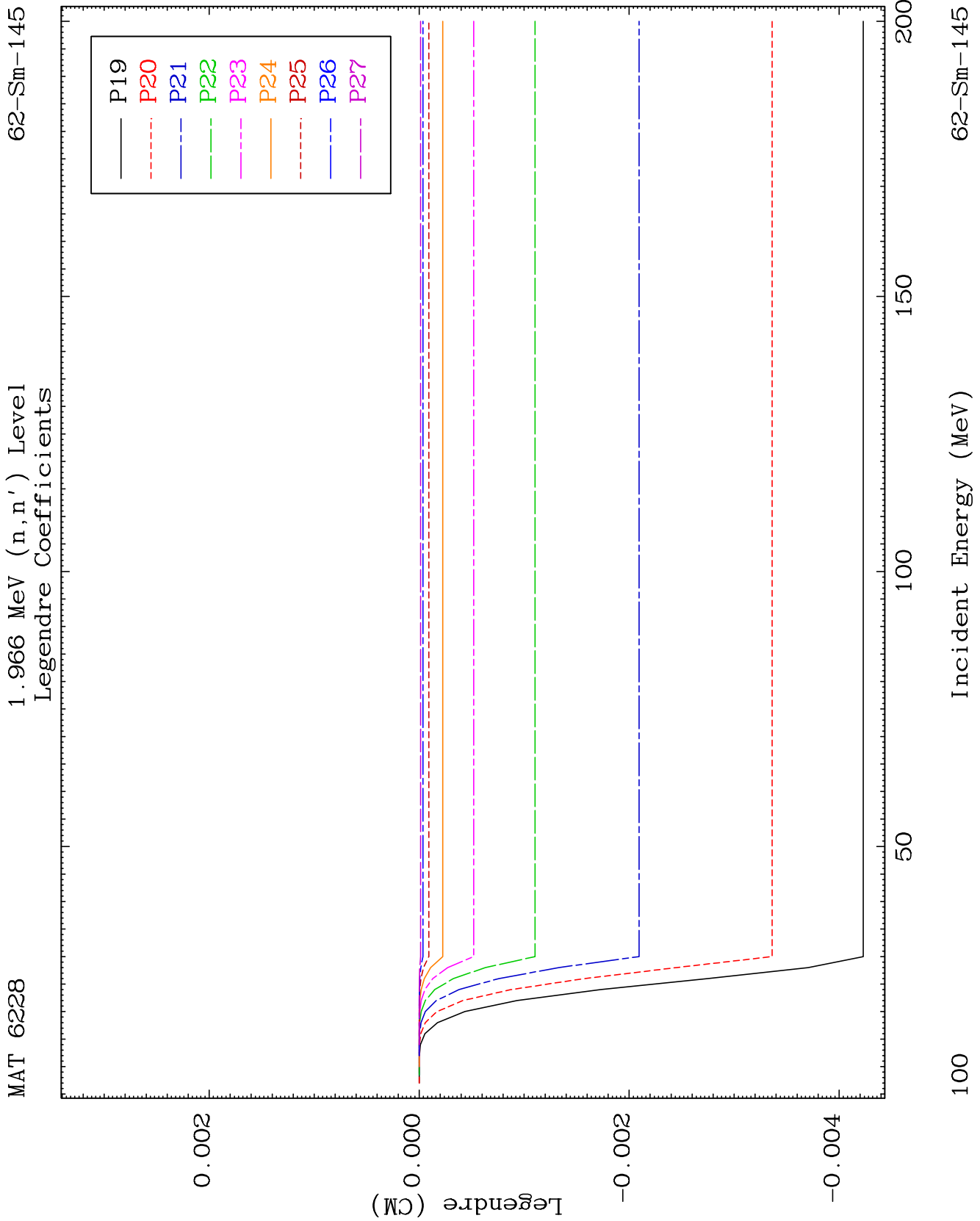
62-Sm-145

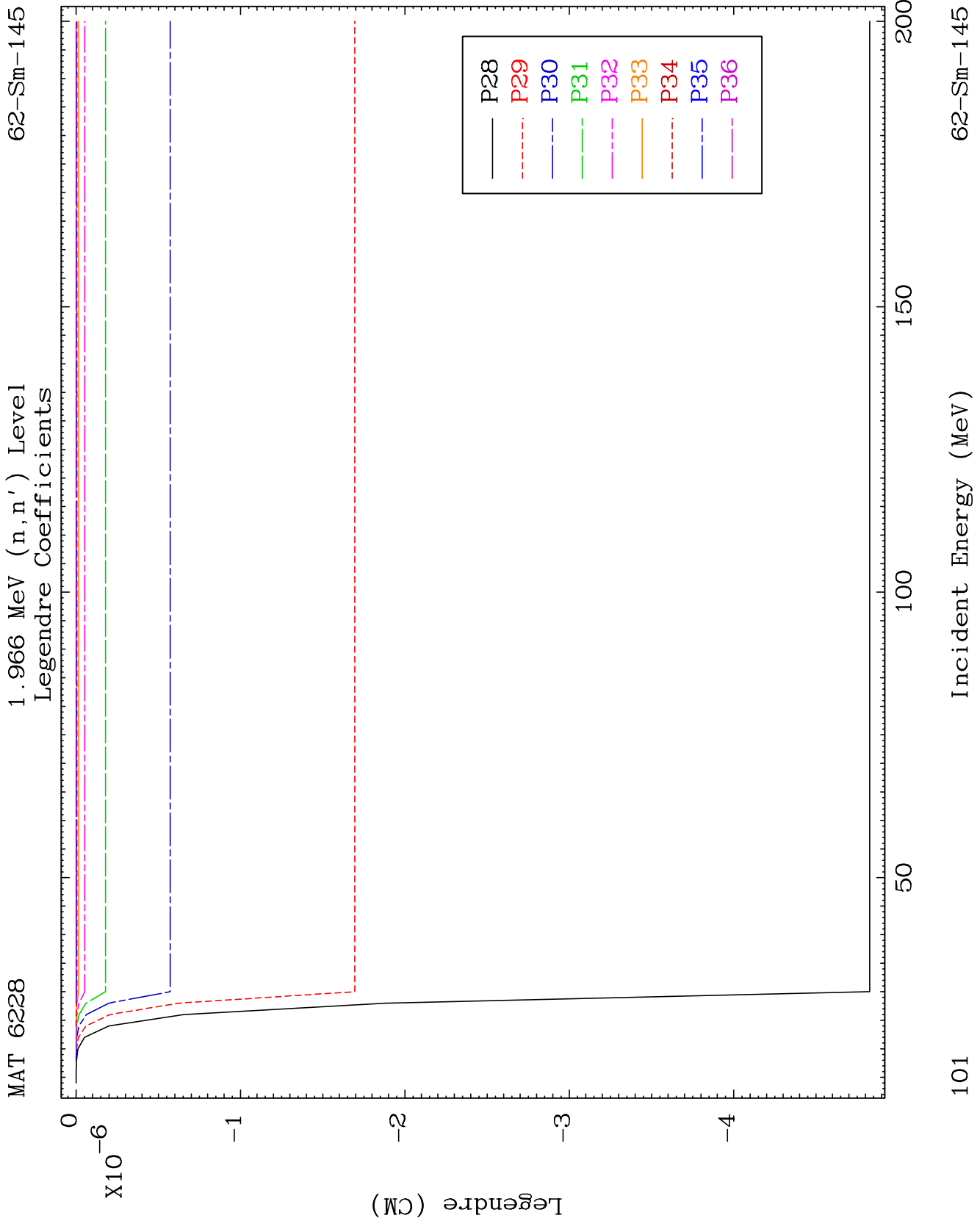


99

Incident Energy (MeV)

62-Sm-145



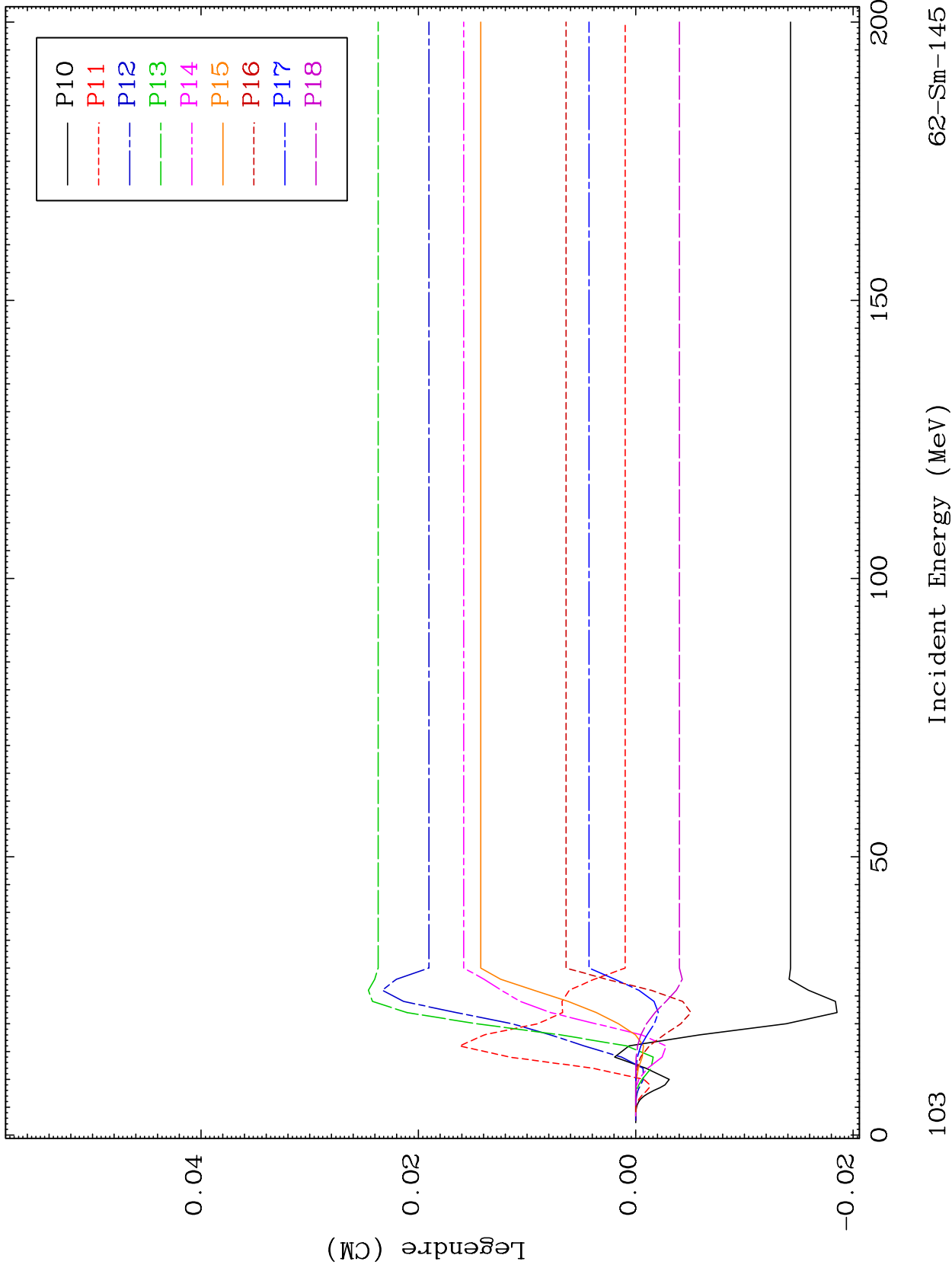




MAT 6228

1.973 MeV (n,n') Level  
Legendre Coefficients

62-Sm-145

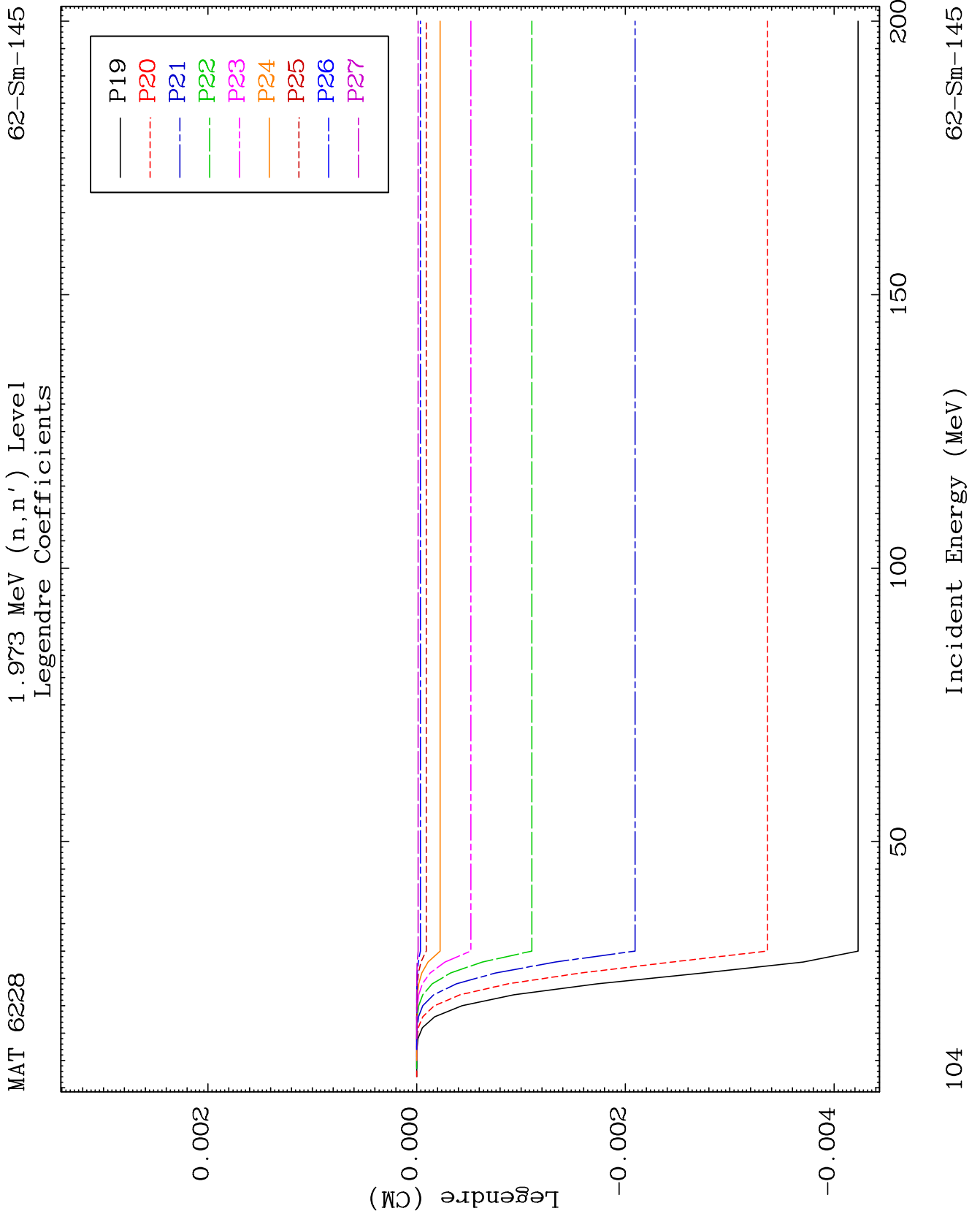


62-Sm-145

Incident Energy (MeV)

103





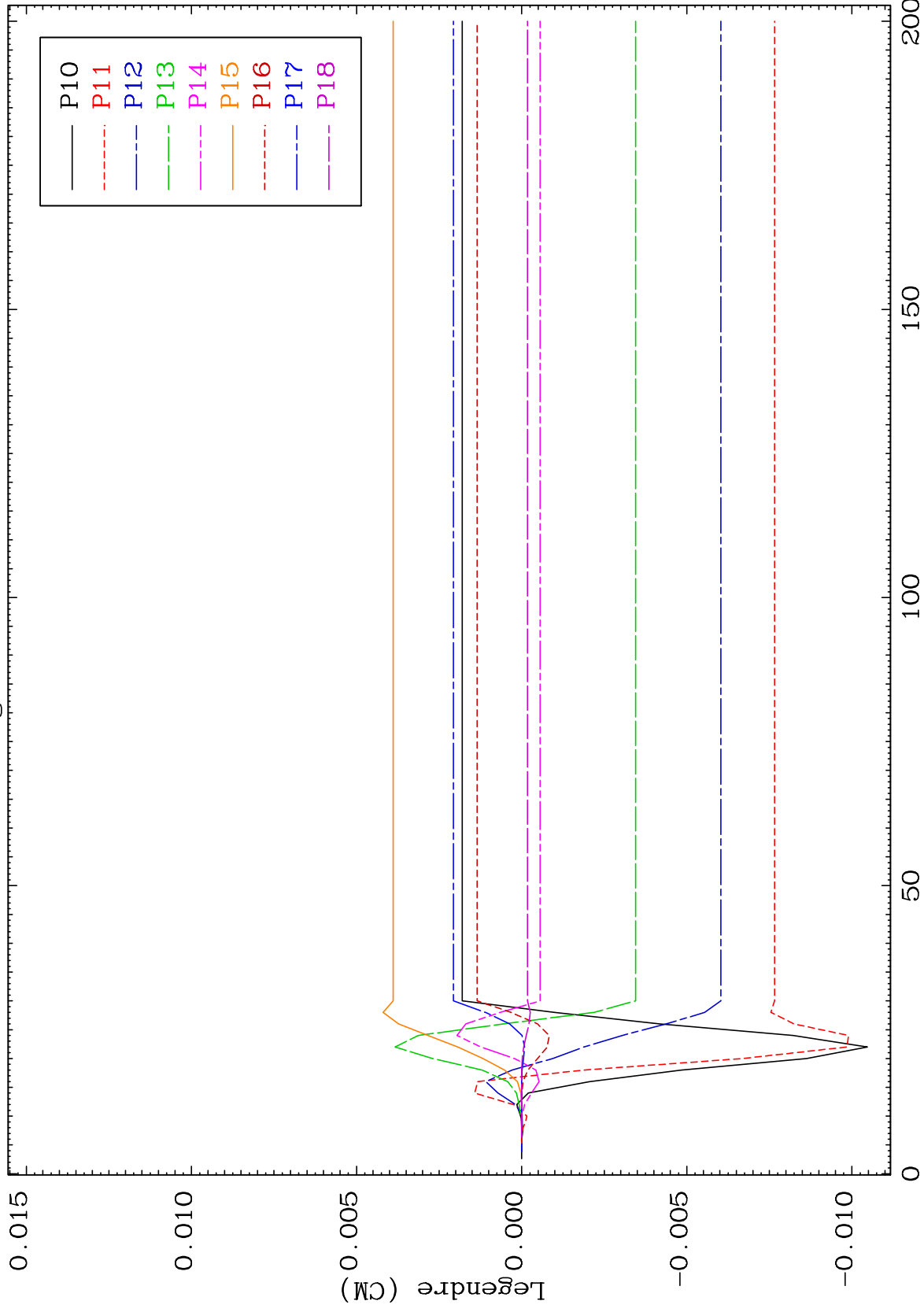




MAT 6228

1.997 MeV (n,n') Level  
Legendre Coefficients

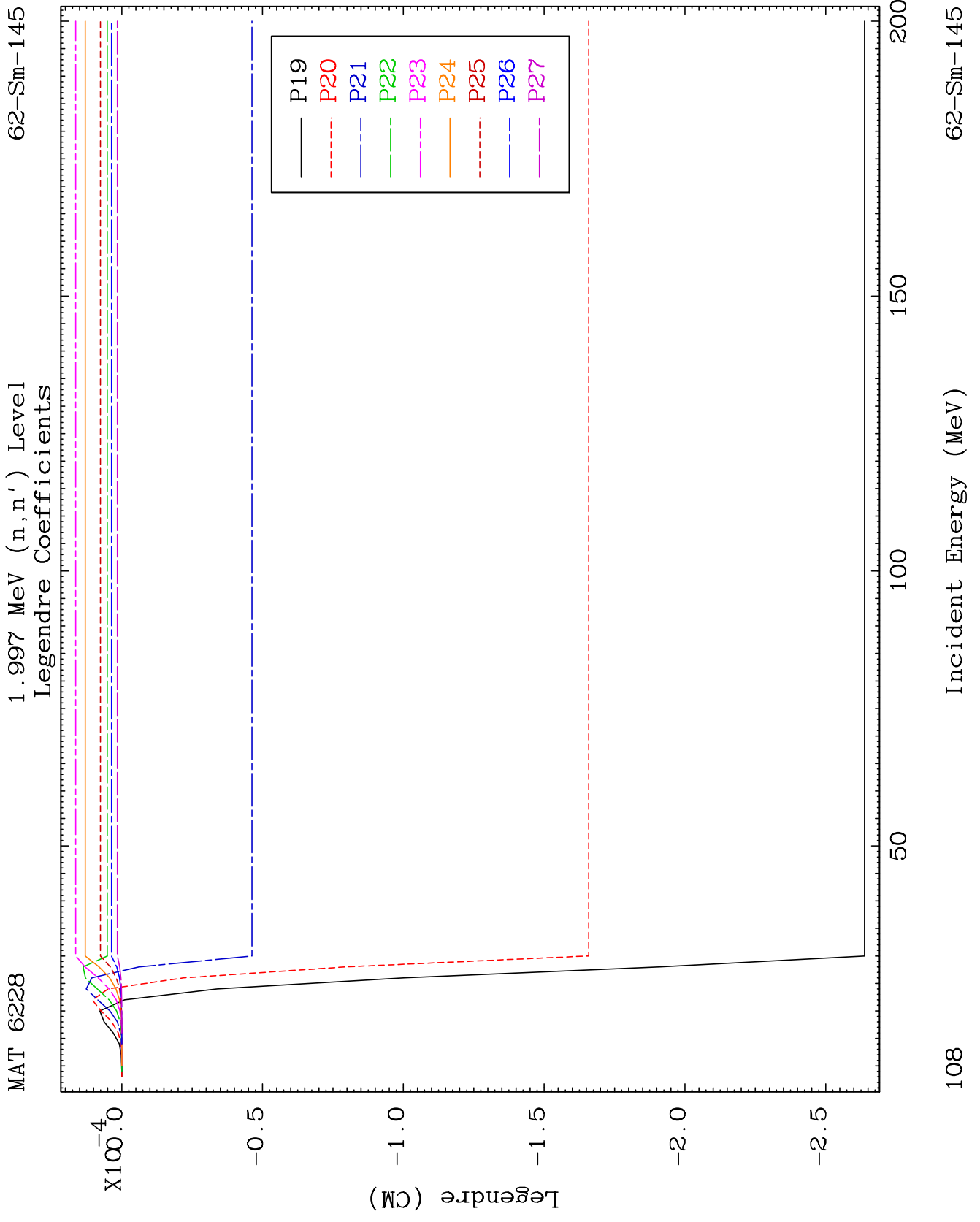
62-Sm-145

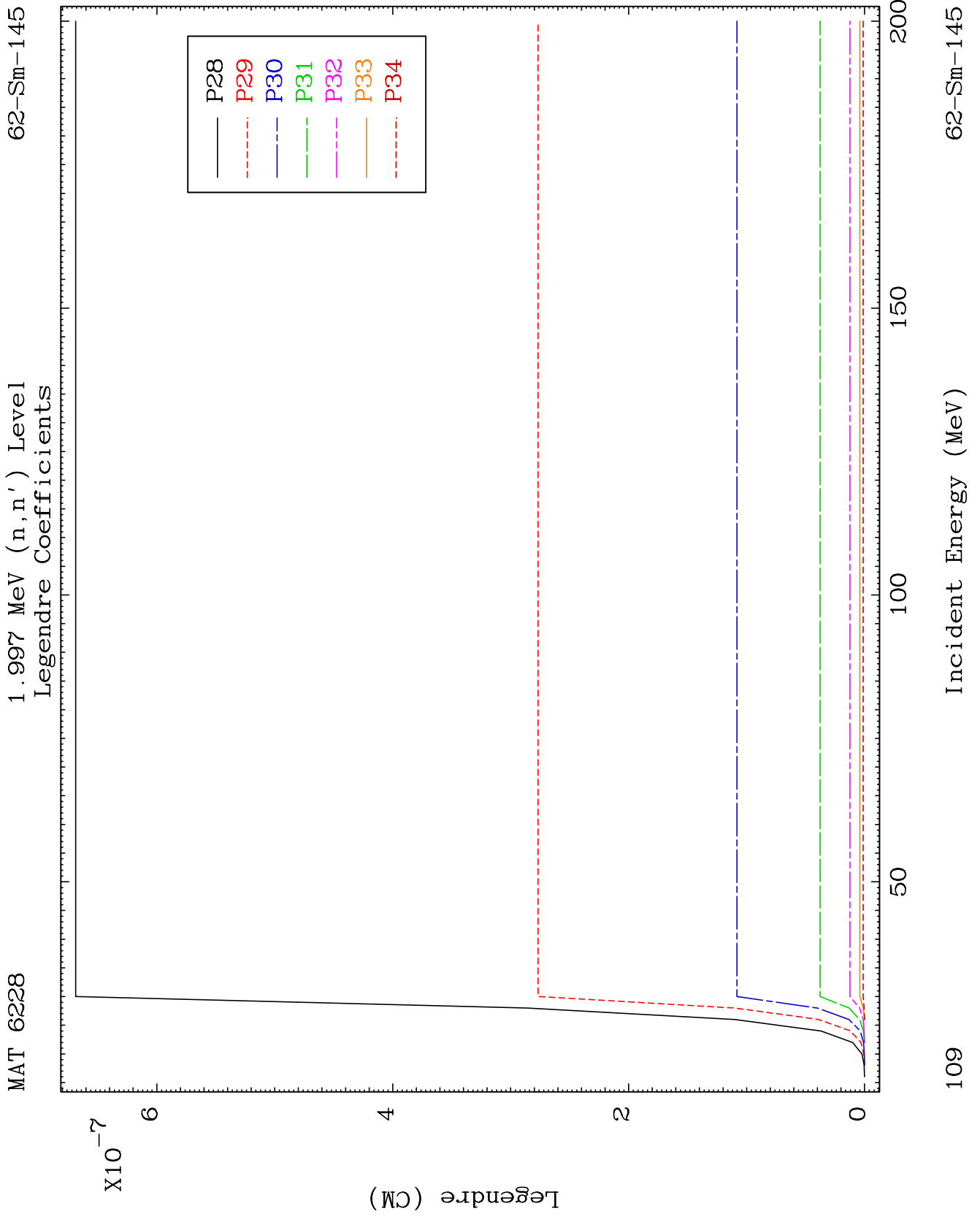


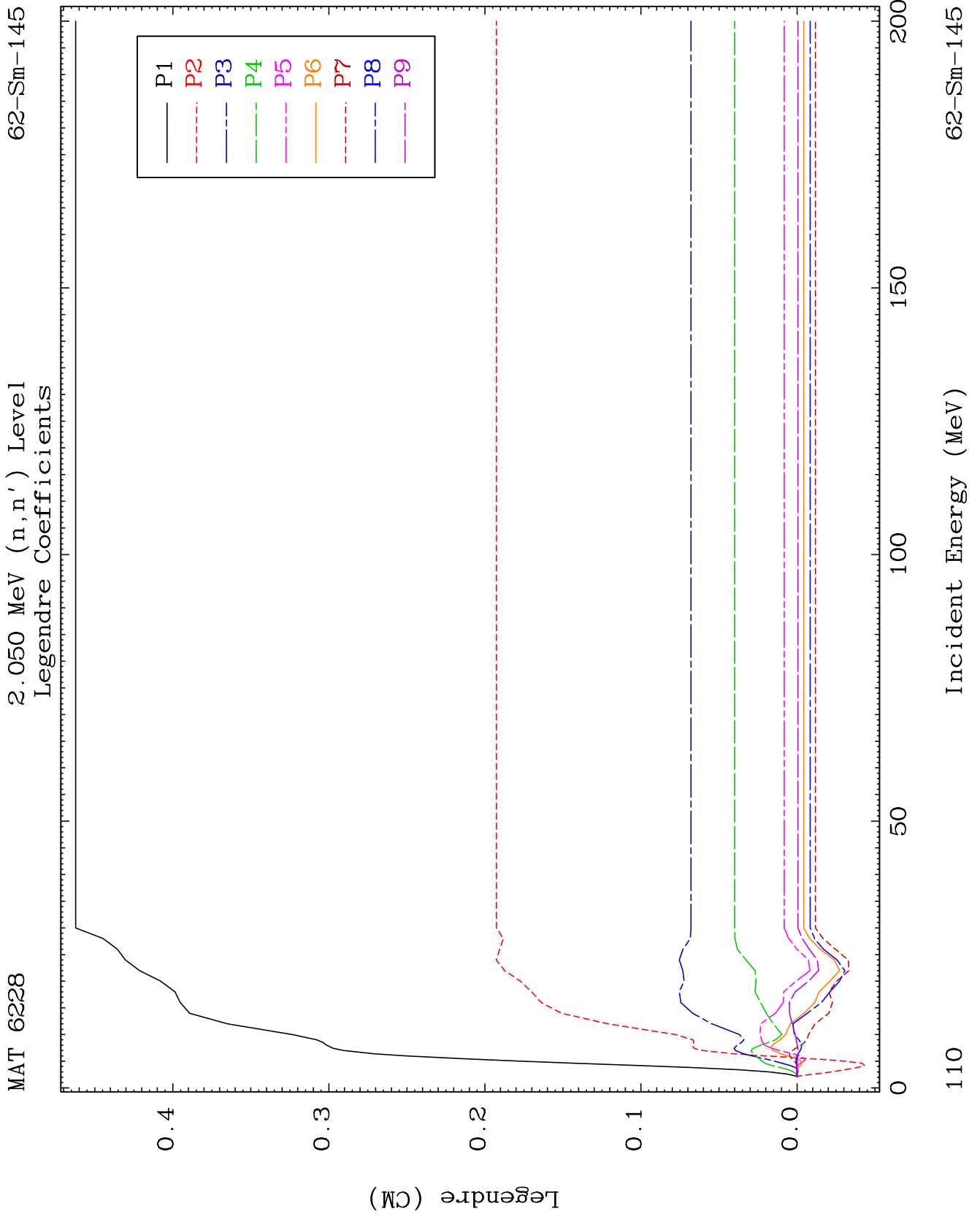
107

Incident Energy (MeV)

62-Sm-145







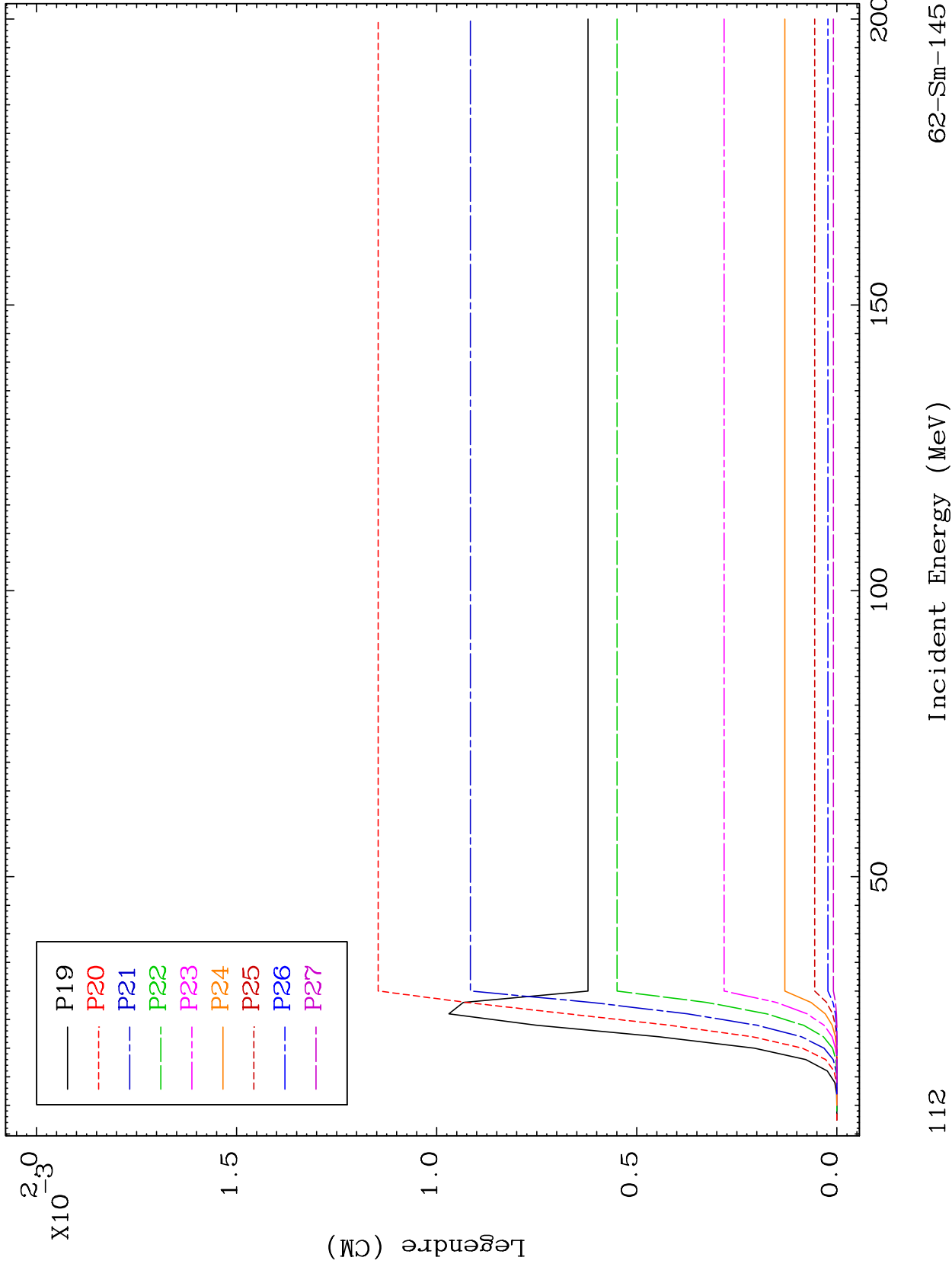




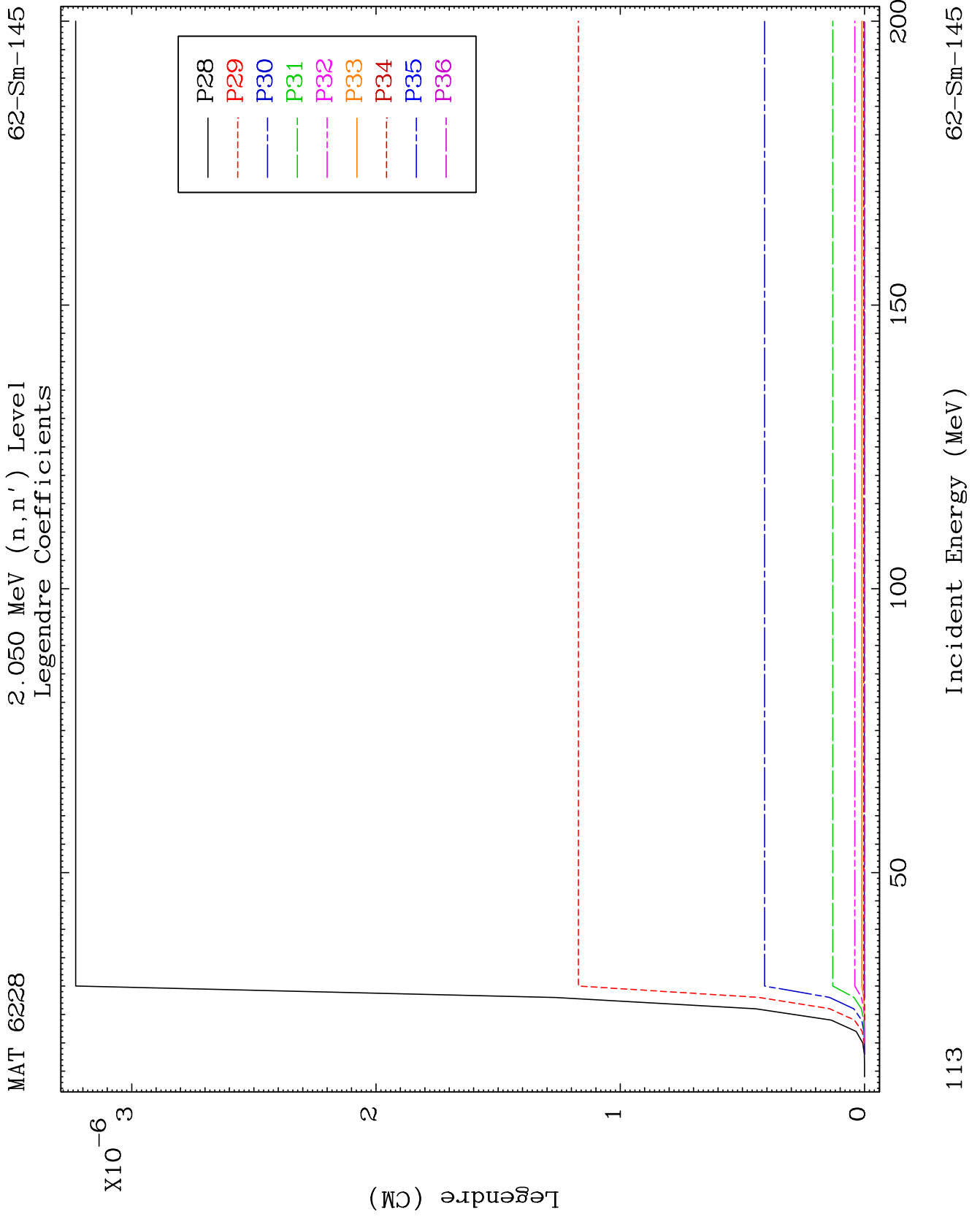
MAT 6228

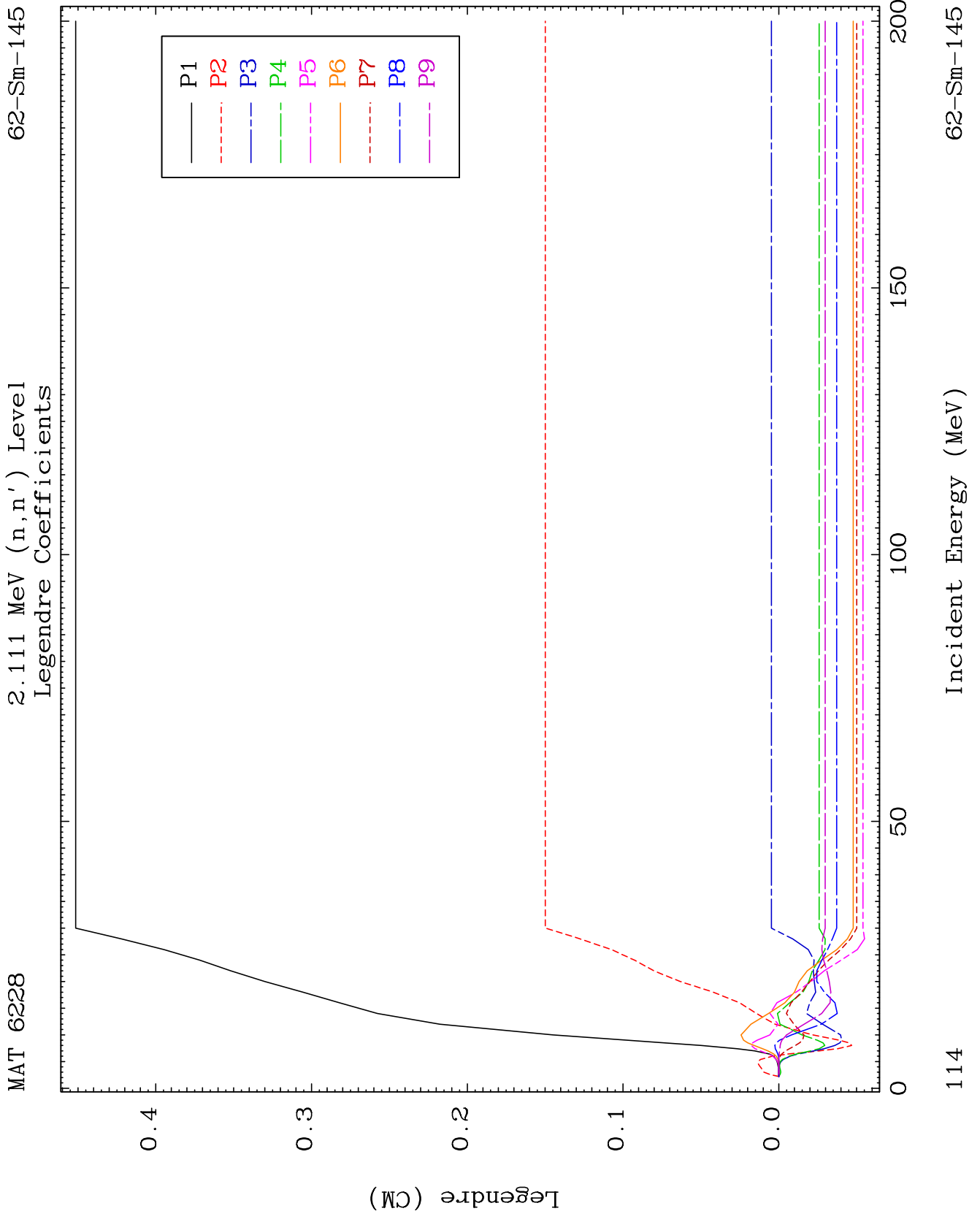
2.050 MeV (n,n') Level  
Legendre Coefficients

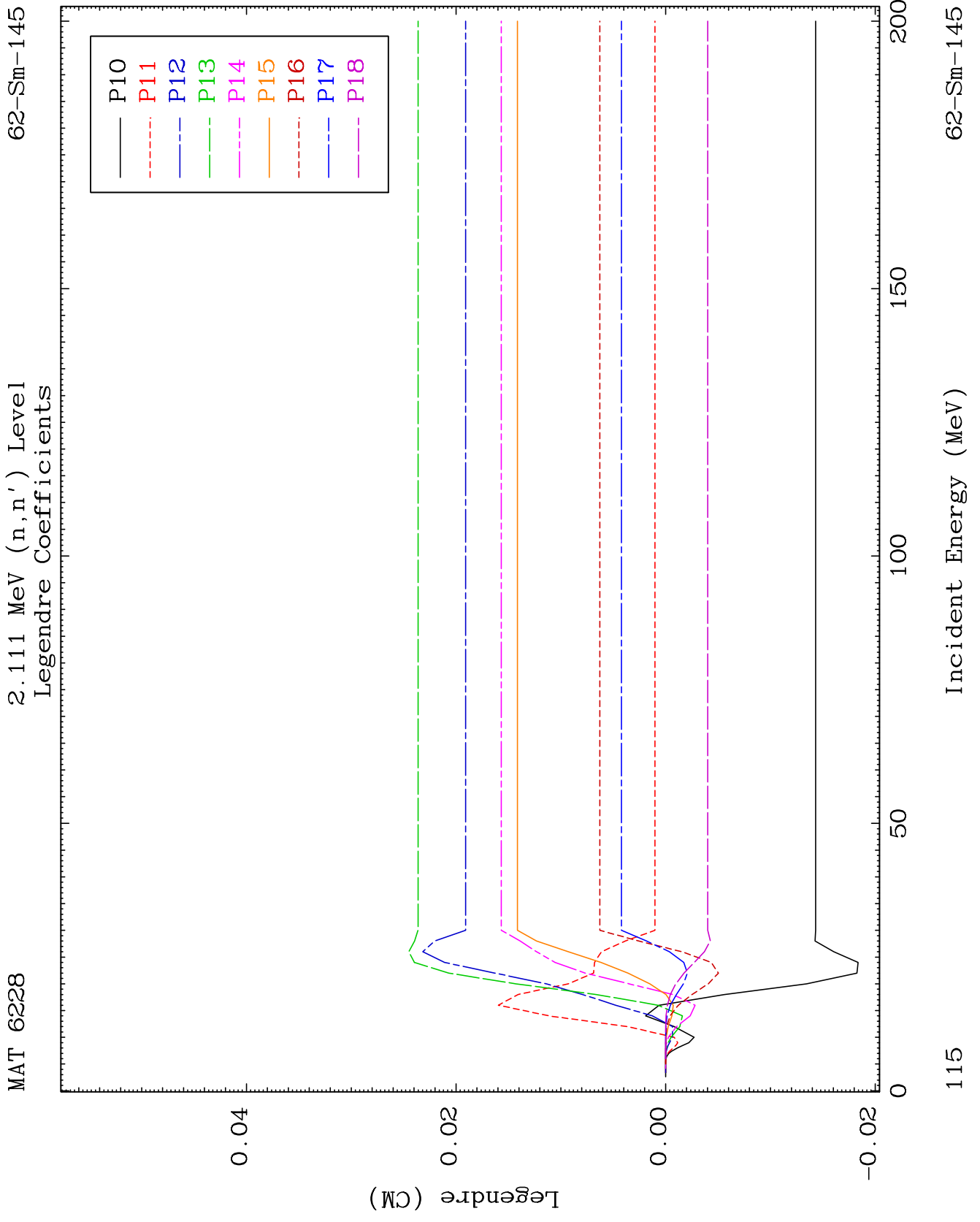
62-Sm-145



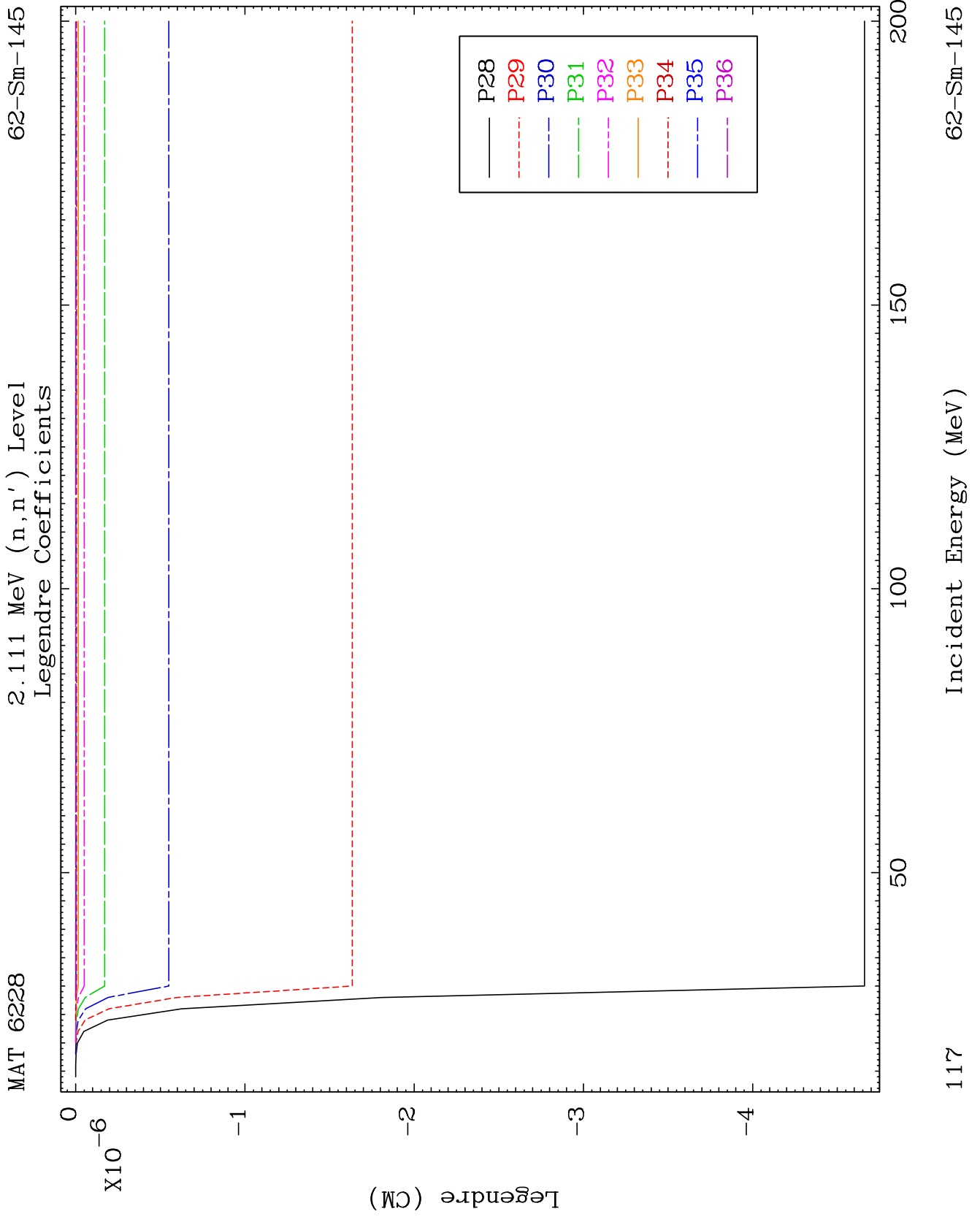
112

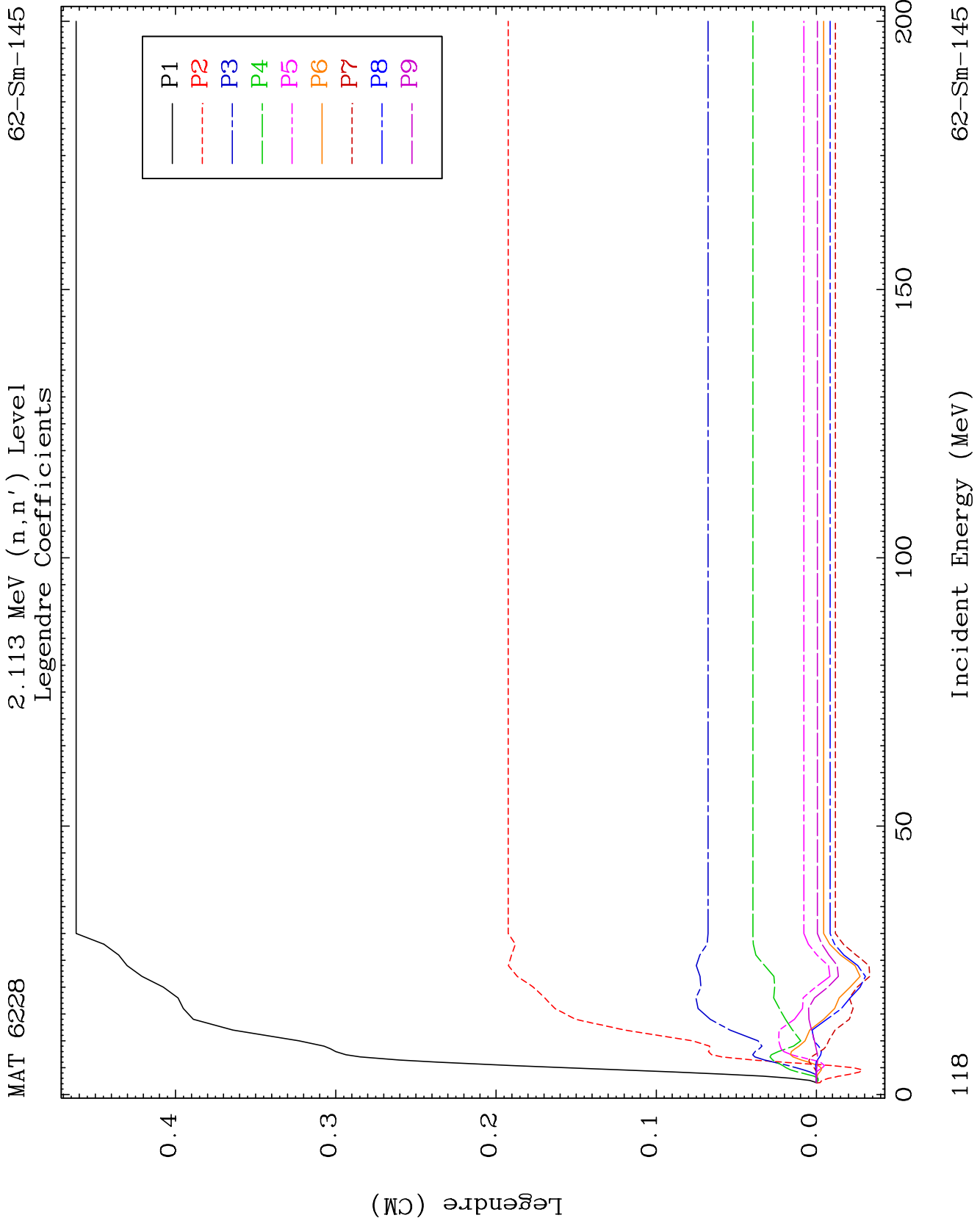












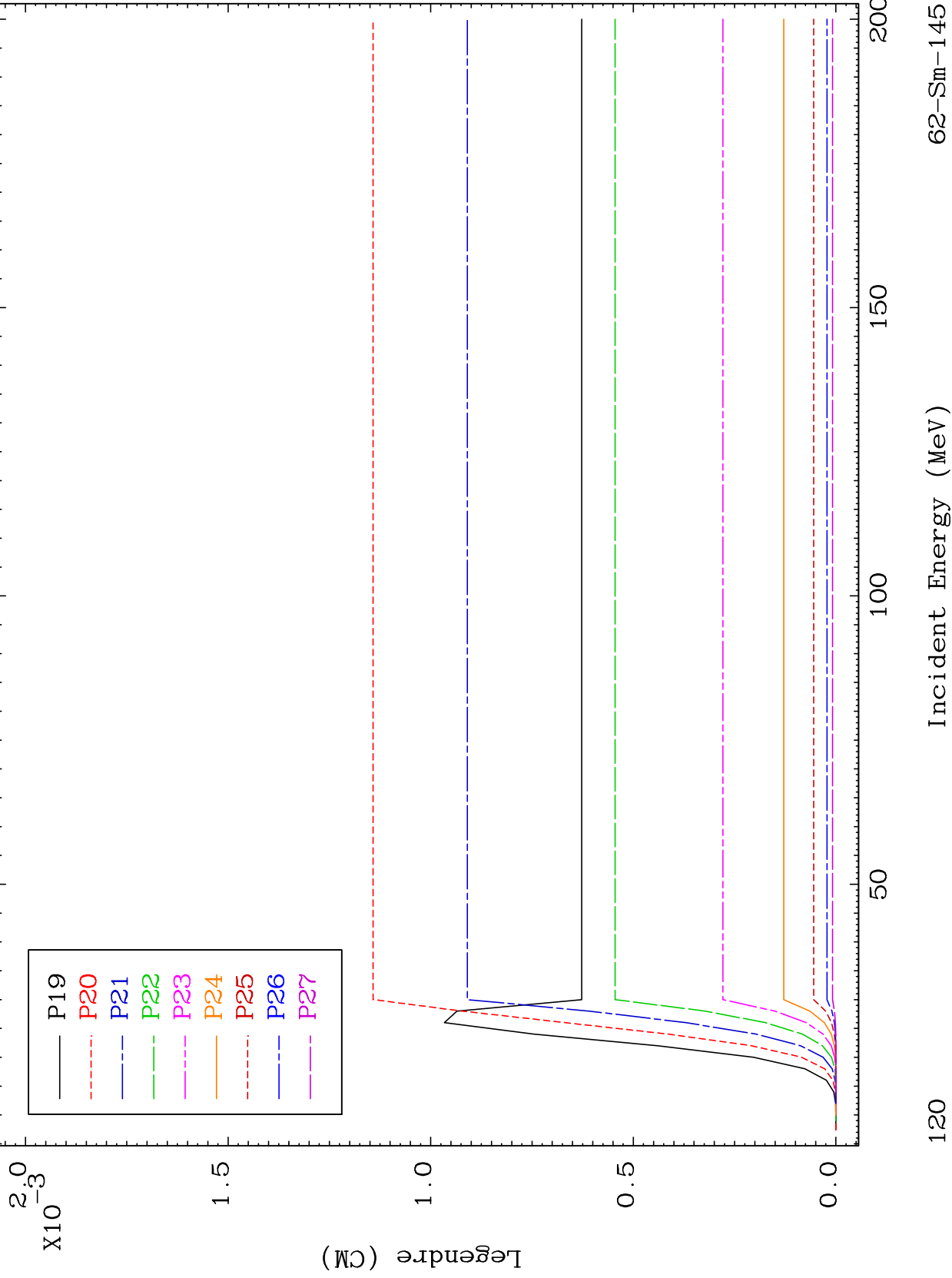




MAT 6228

2.113 MeV (n, n') Level  
Legendre Coefficients

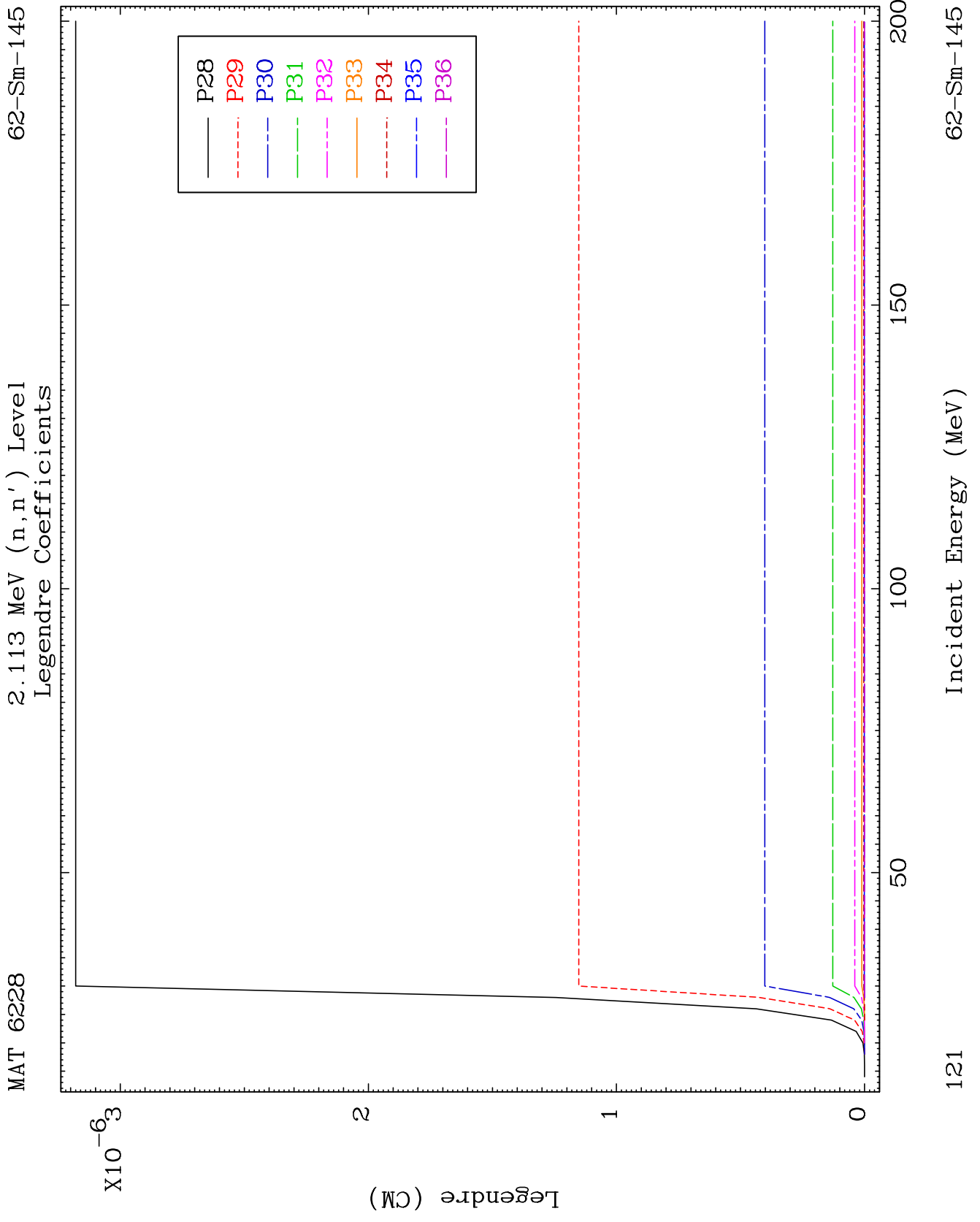
62-Sm-145

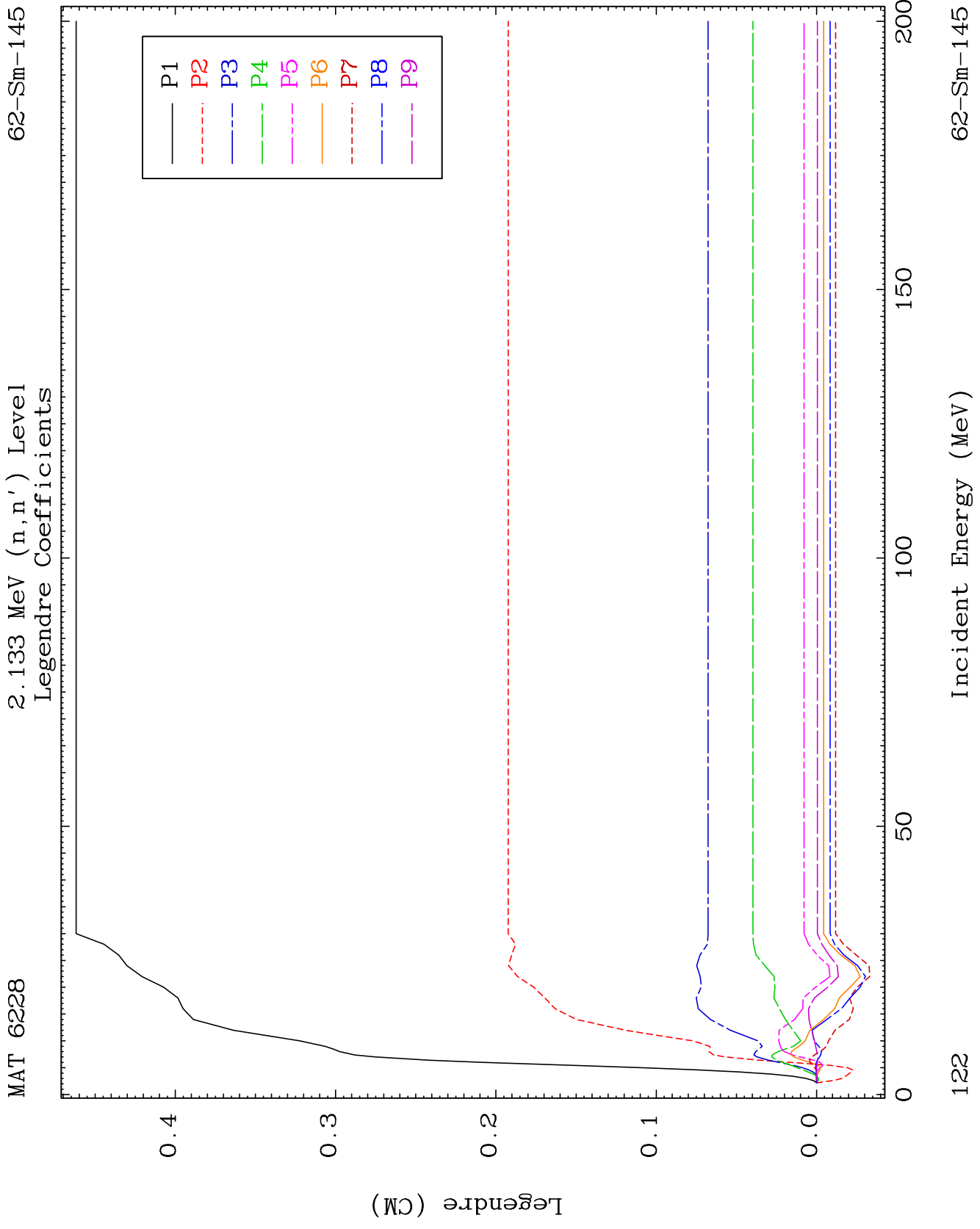


120

Incident Energy (MeV)

62-Sm-145

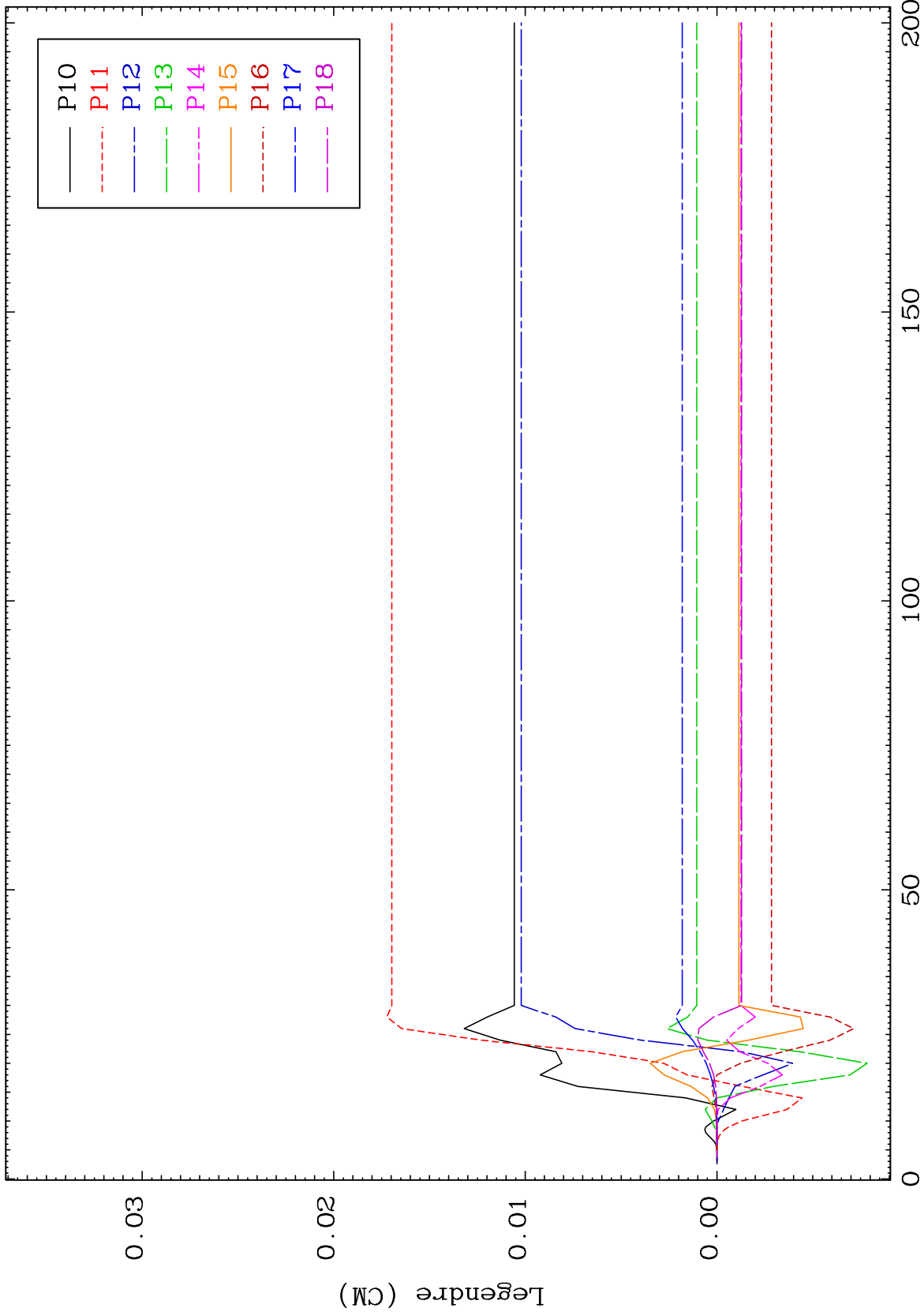




MAT 6228

2.133 MeV (n,n') Level  
Legendre Coefficients

62-Sm-145



123

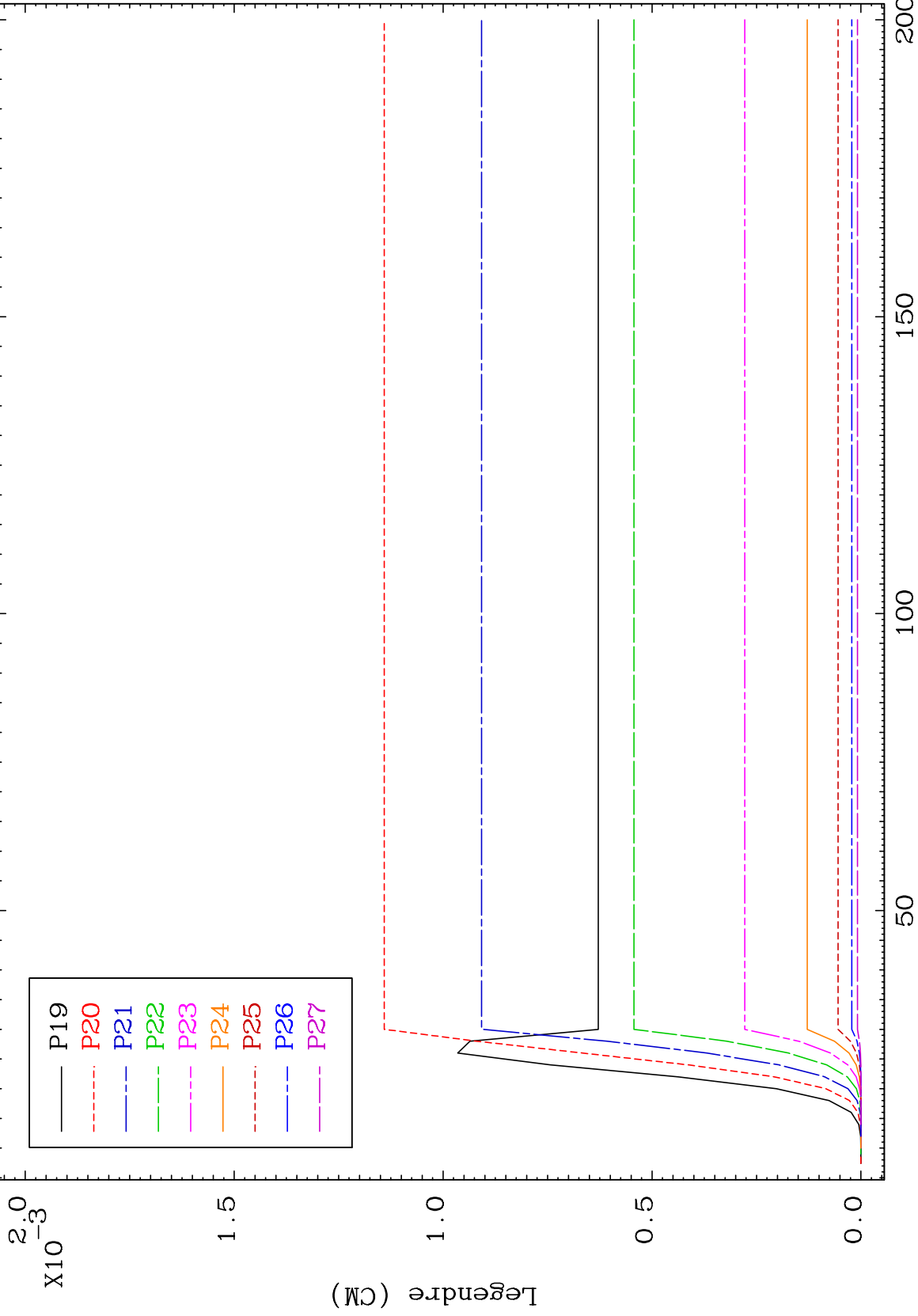
Incident Energy (MeV)

62-Sm-145

MAT 6228

2.133 MeV (n, n') Level  
Legendre Coefficients

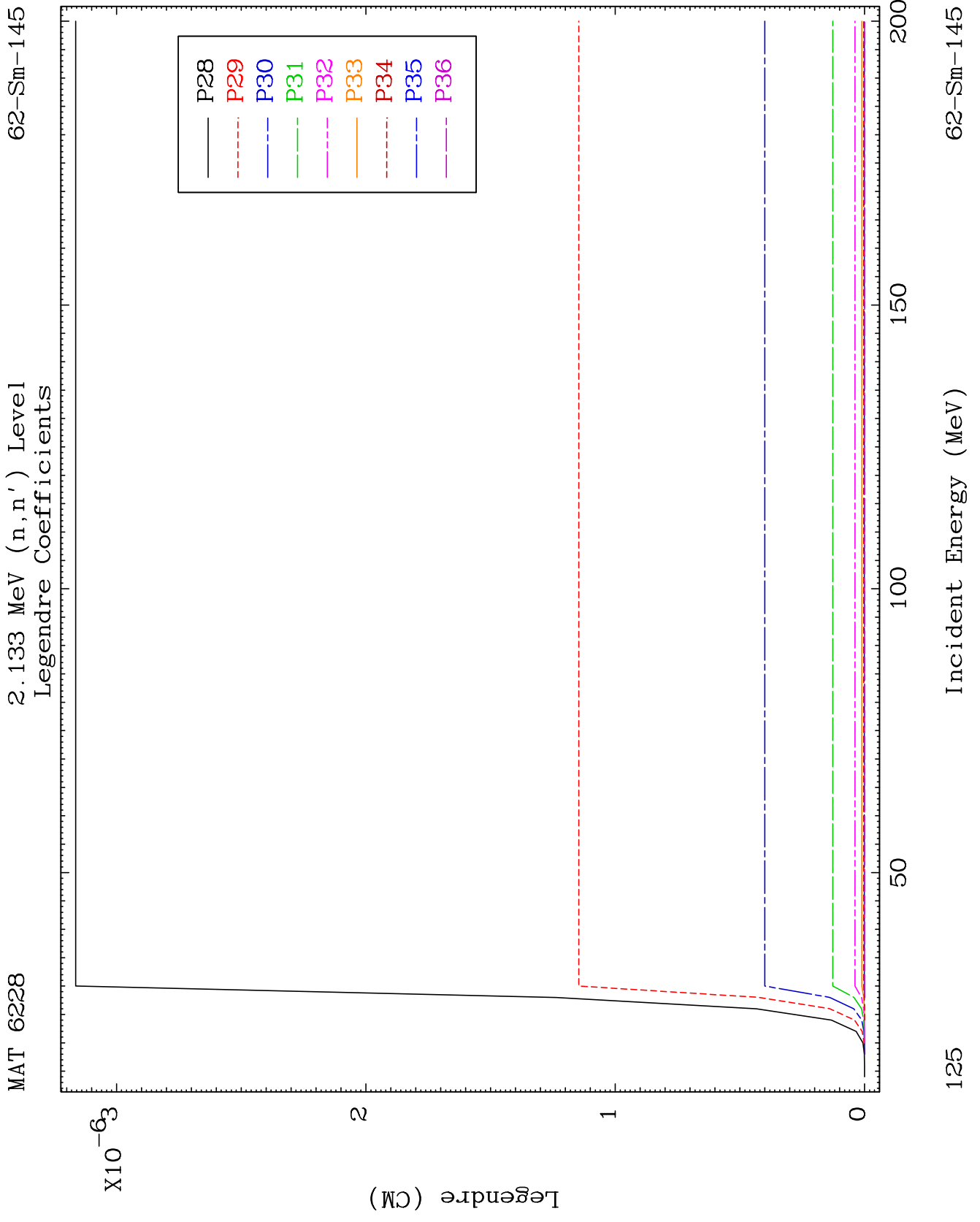
62-Sm-145



124

Incident Energy (MeV)

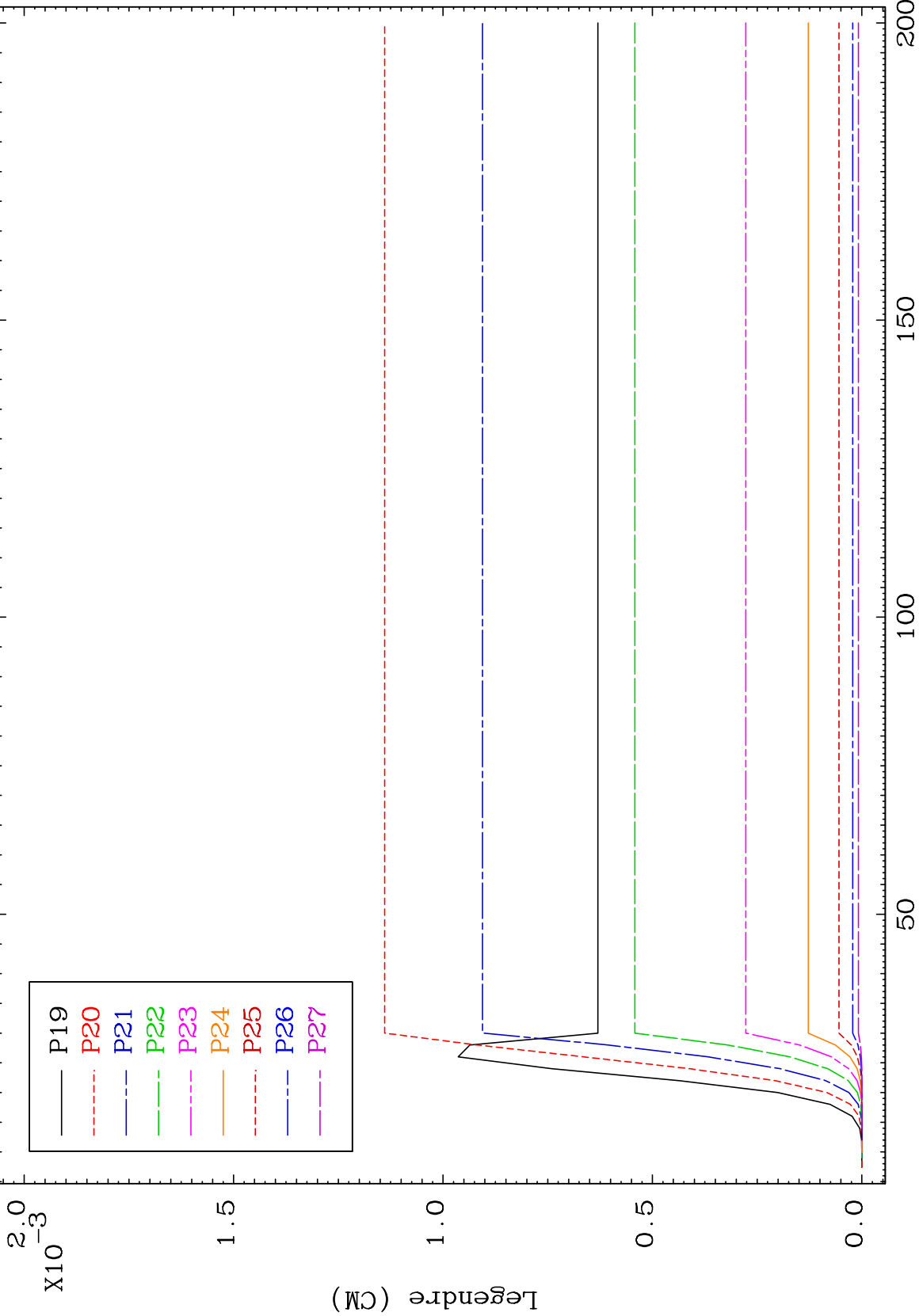
62-Sm-145

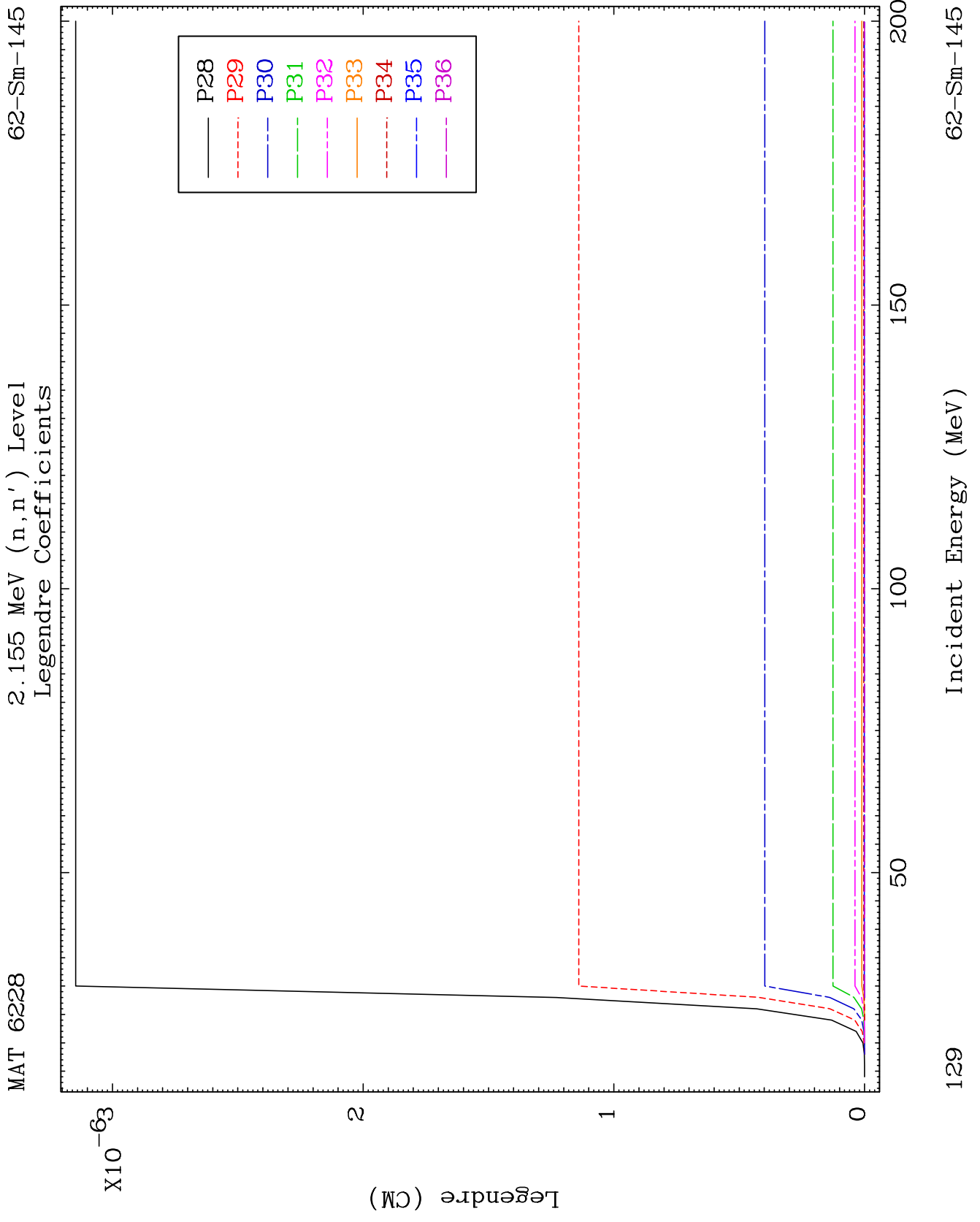


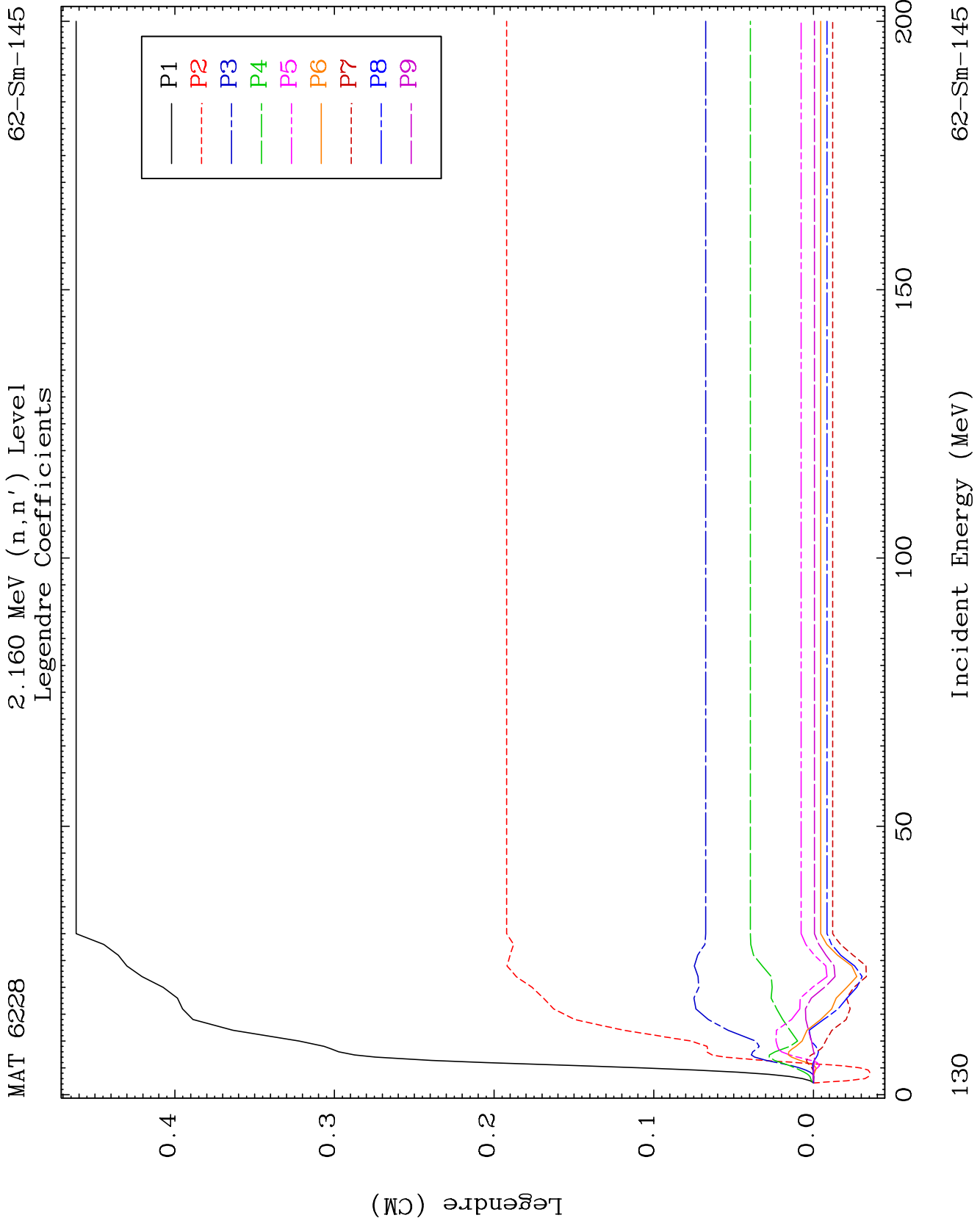




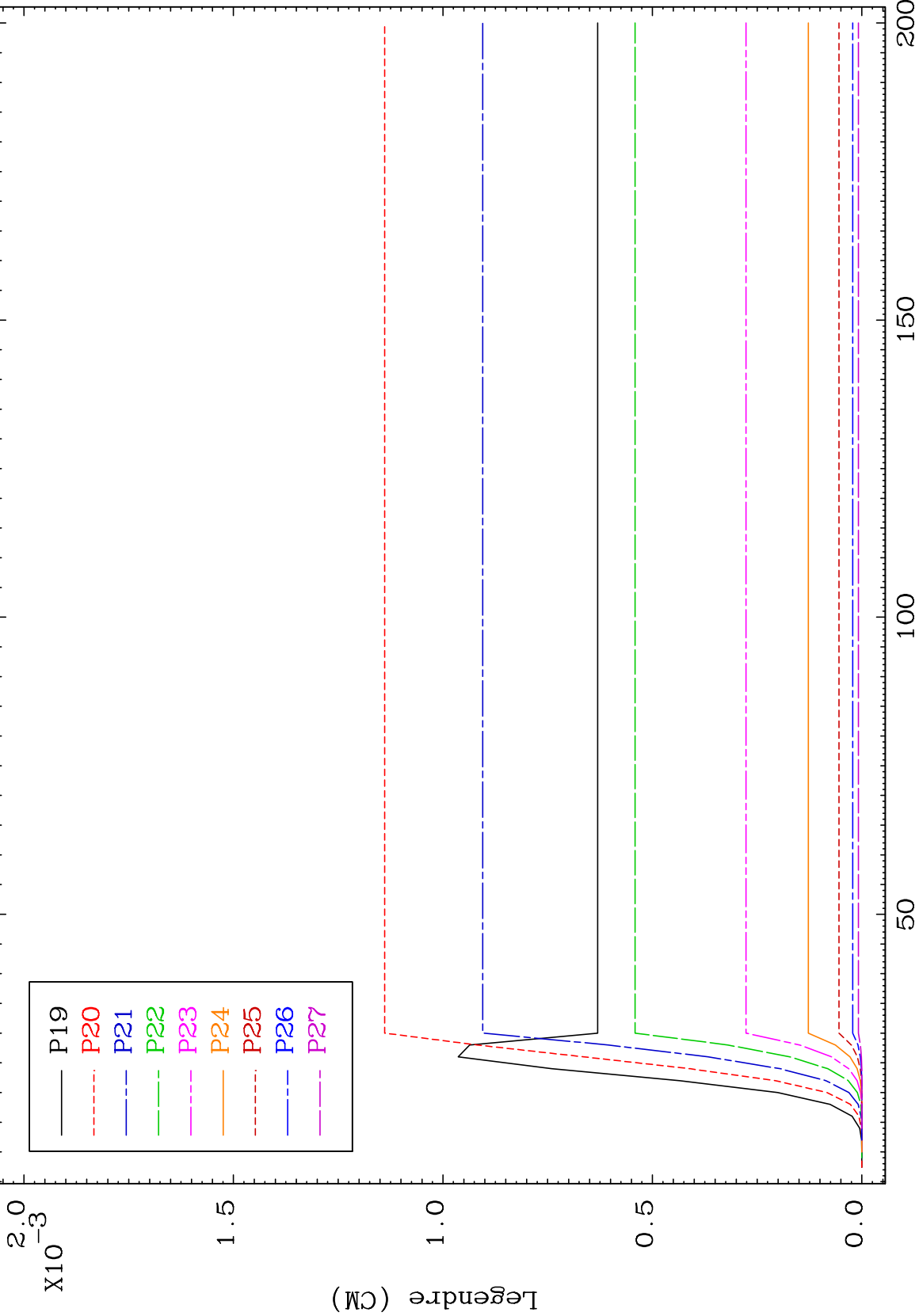


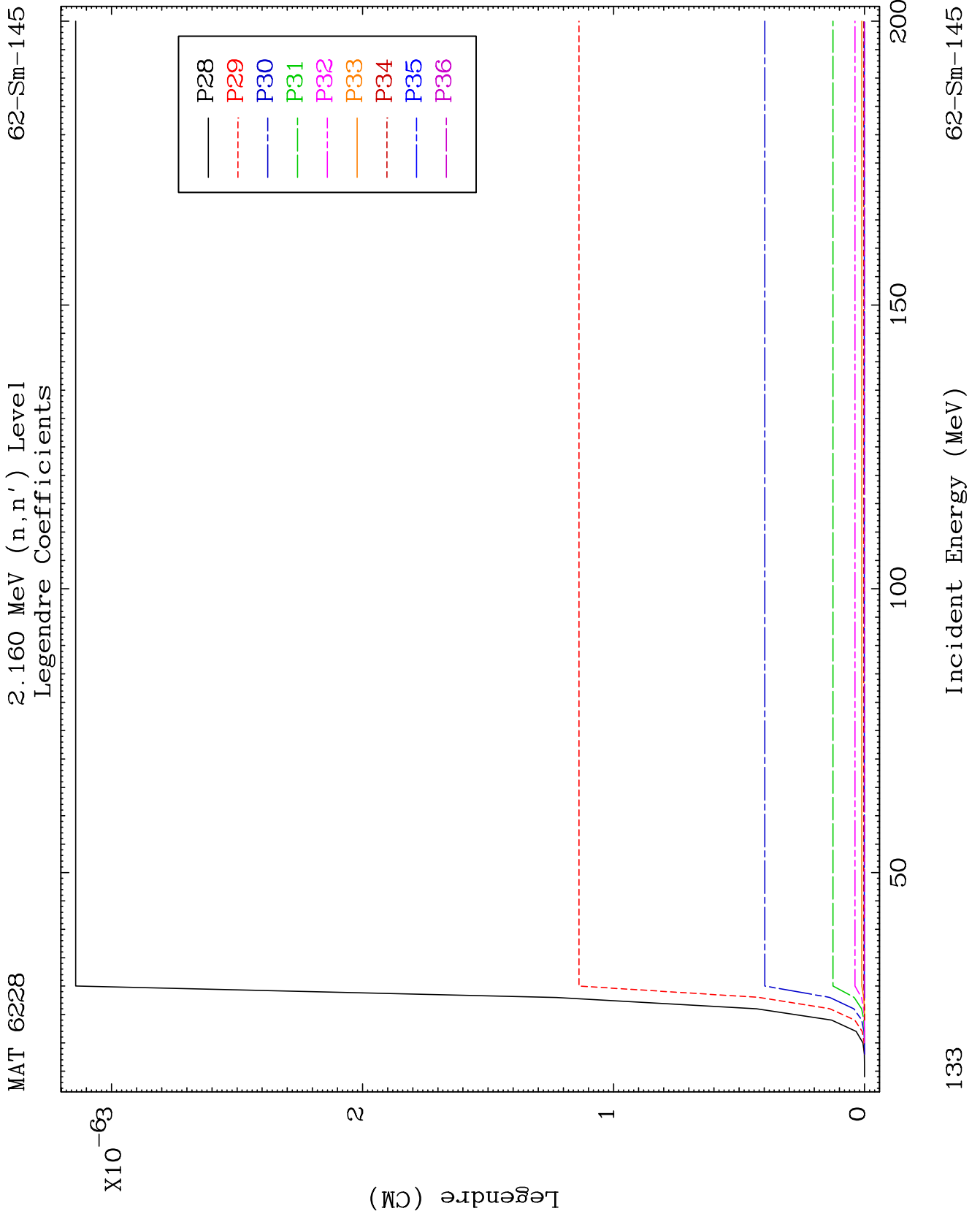








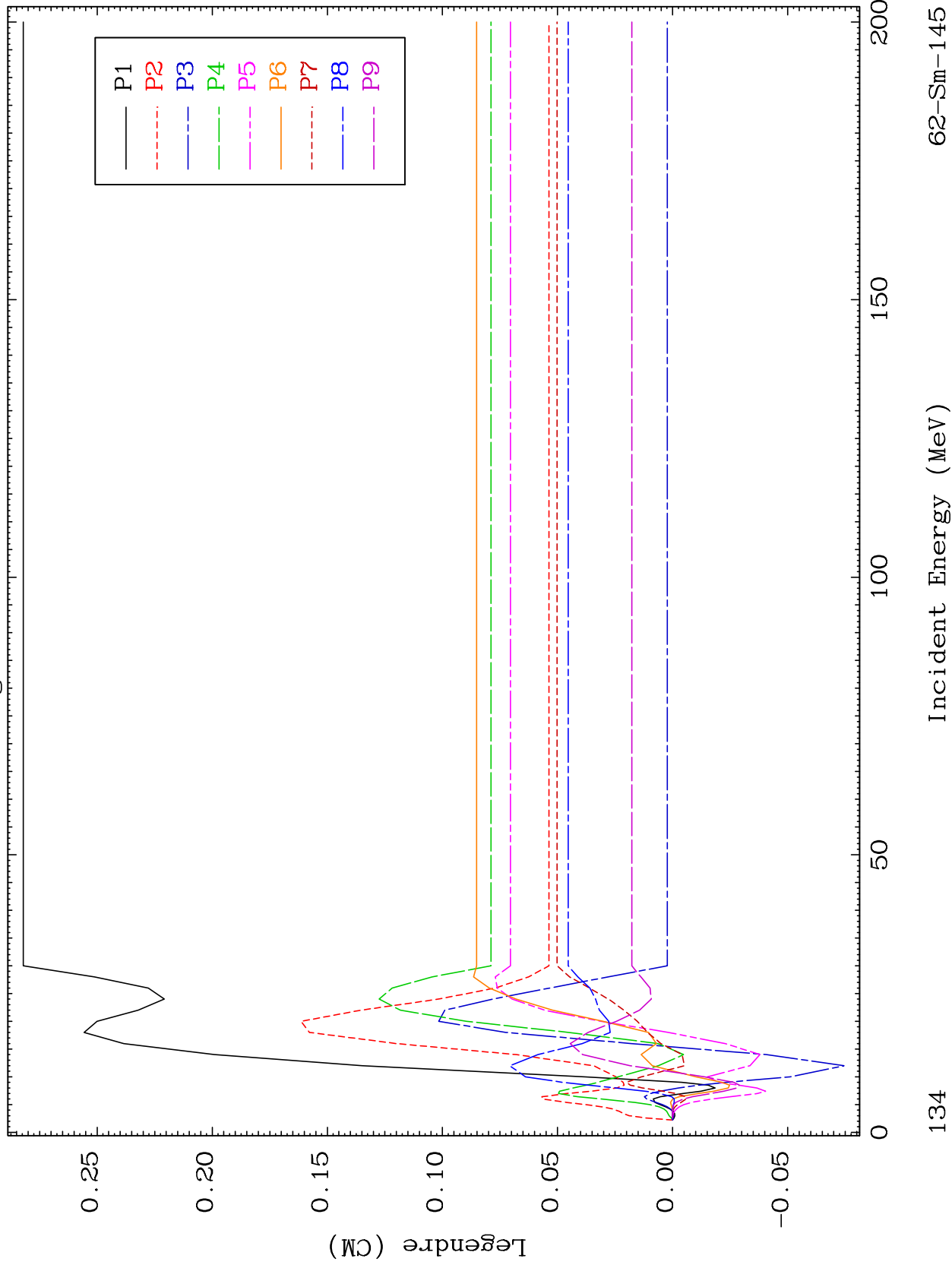




MAT 6228

2.193 MeV (n, n') Level  
Legendre Coefficients

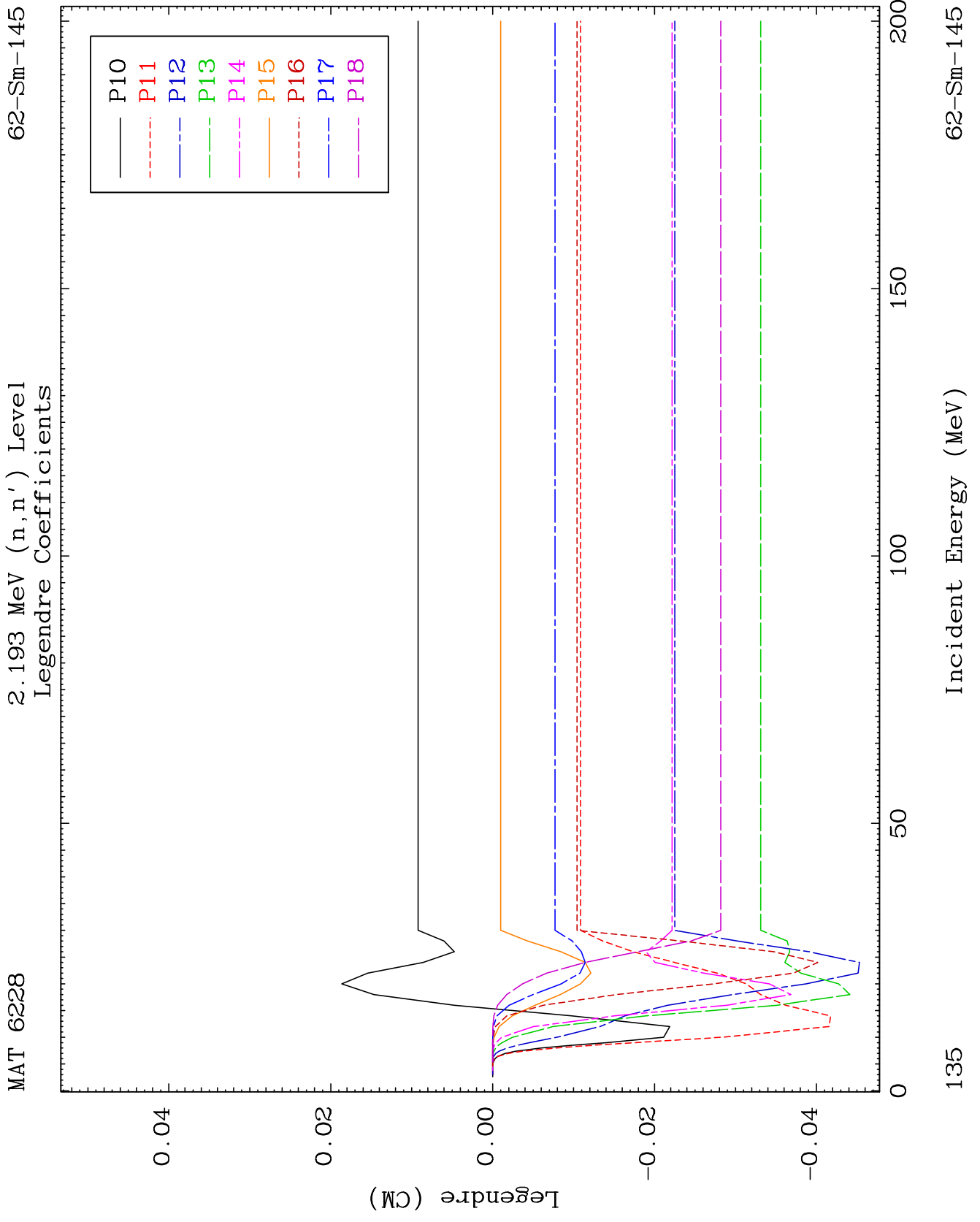
62-Sm-145



134

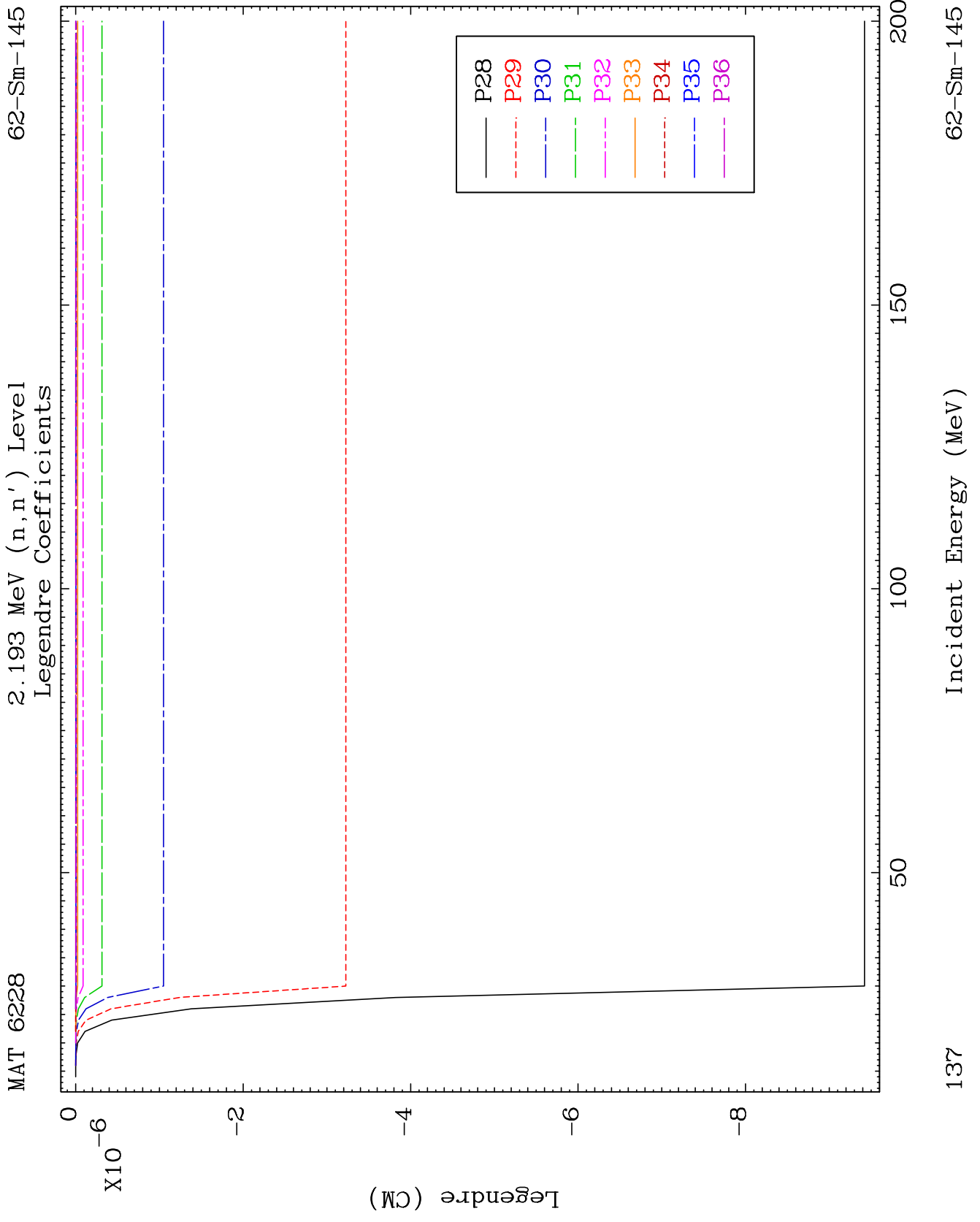
Incident Energy (MeV)

62-Sm-145

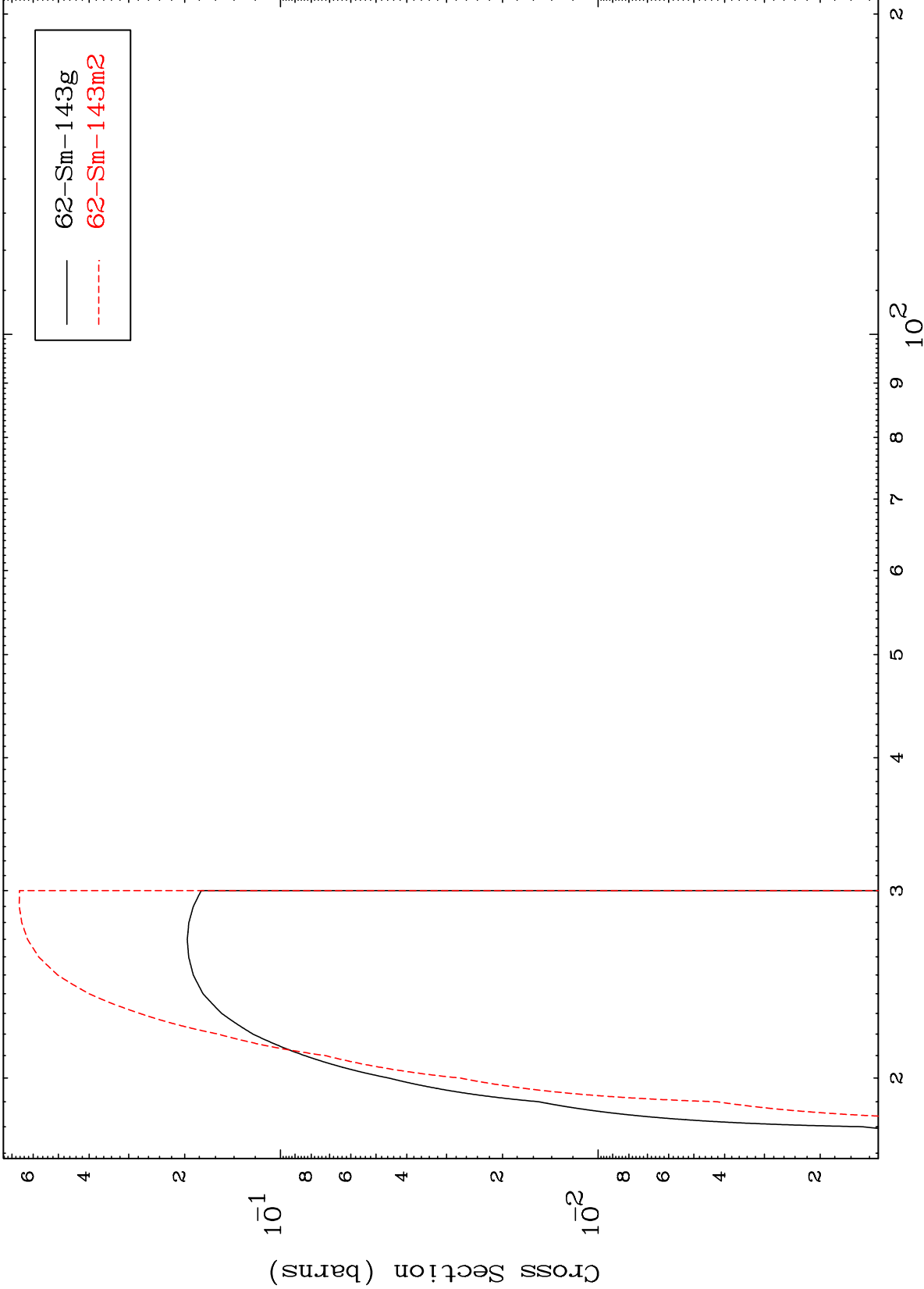








Radionuclide Production Cross Section

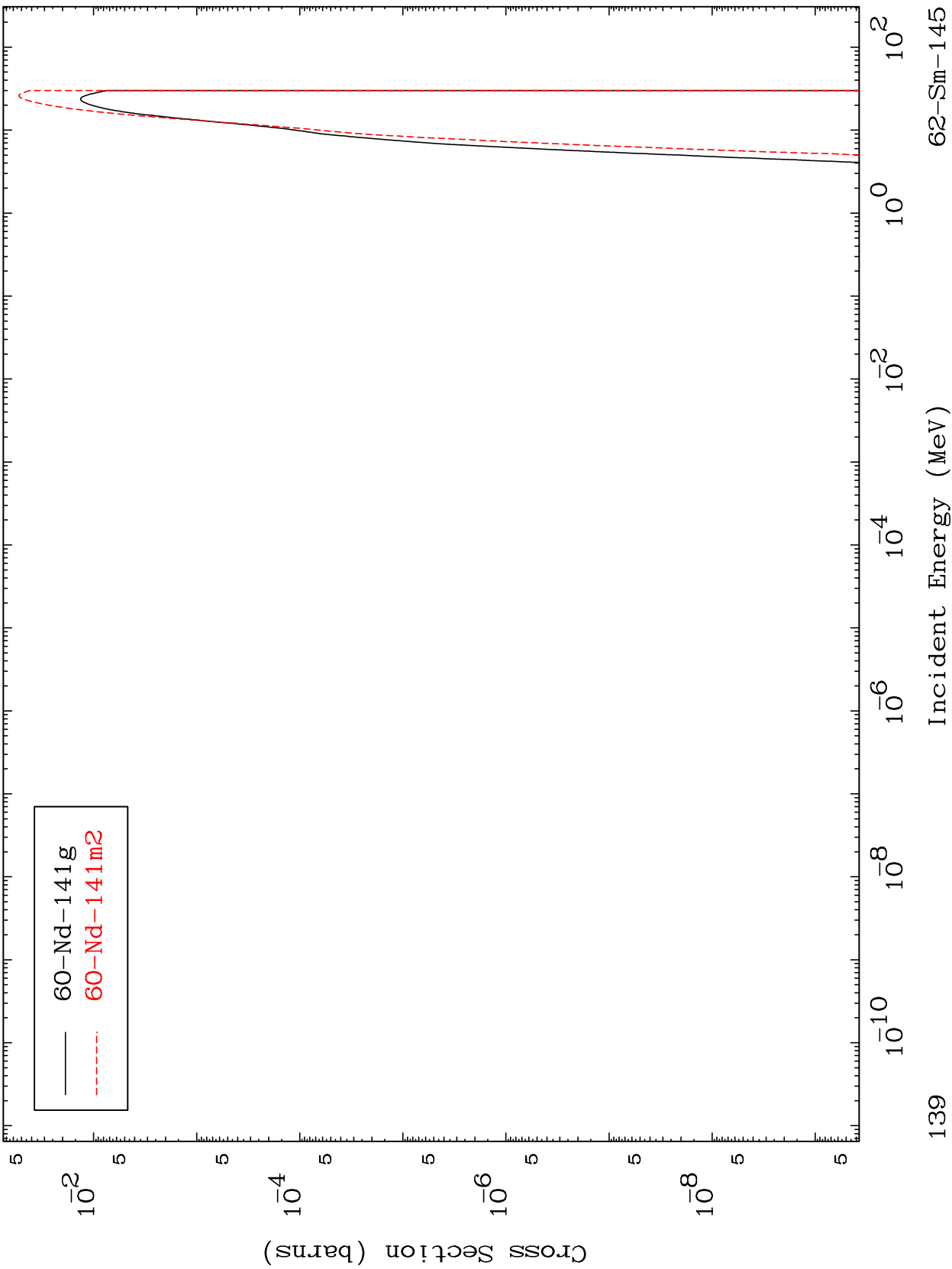


MAT 6228

$(n, n')$   $\alpha$

62-Sm-145

Radionuclide Production Cross Section



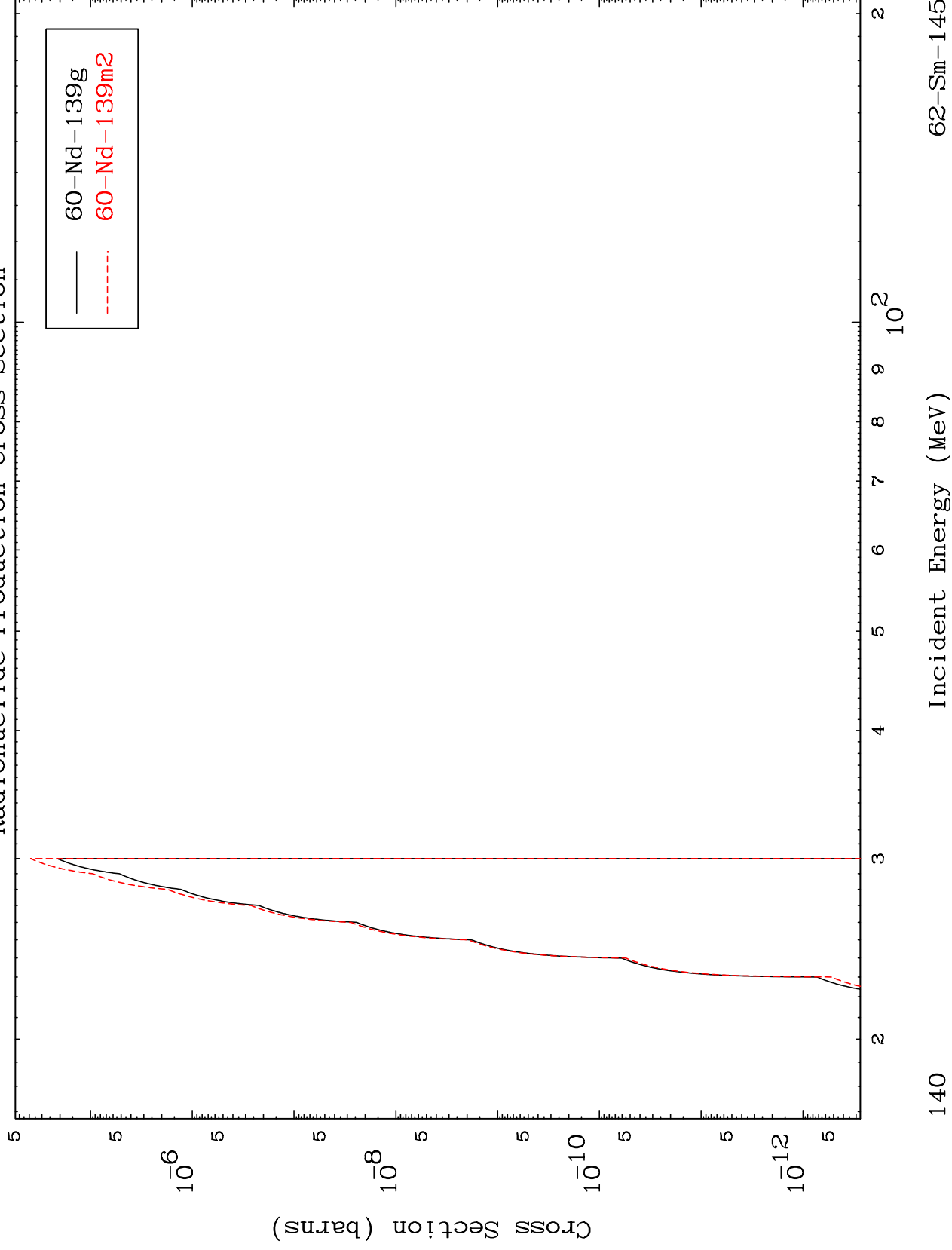
60-Nd-141g  
60-Nd-141m2

MAT 6228

$(n,3n) \alpha$

$^{62}\text{Sm}-145$

Radionuclide Production Cross Section



140

Incident Energy (MeV)

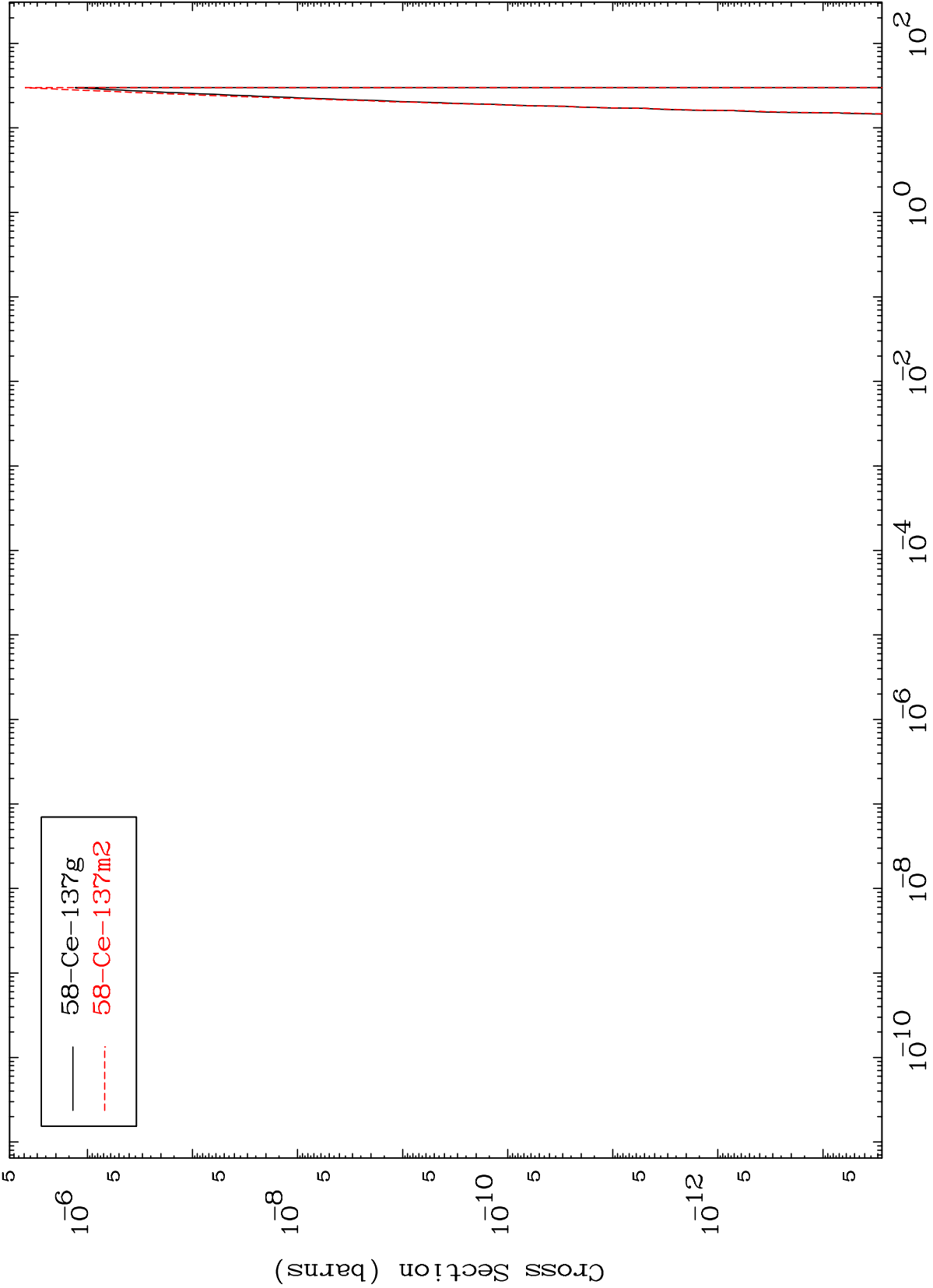
$^{62}\text{Sm}-145$

MAT 6228

(n,n') 2α

62-Sm-145

Radionuclide Production Cross Section



58-Ce-137g  
58-Ce-137m2

141

Incident Energy (MeV)

62-Sm-145