

Program EVALPLOT  
(Version 2021-1)

by

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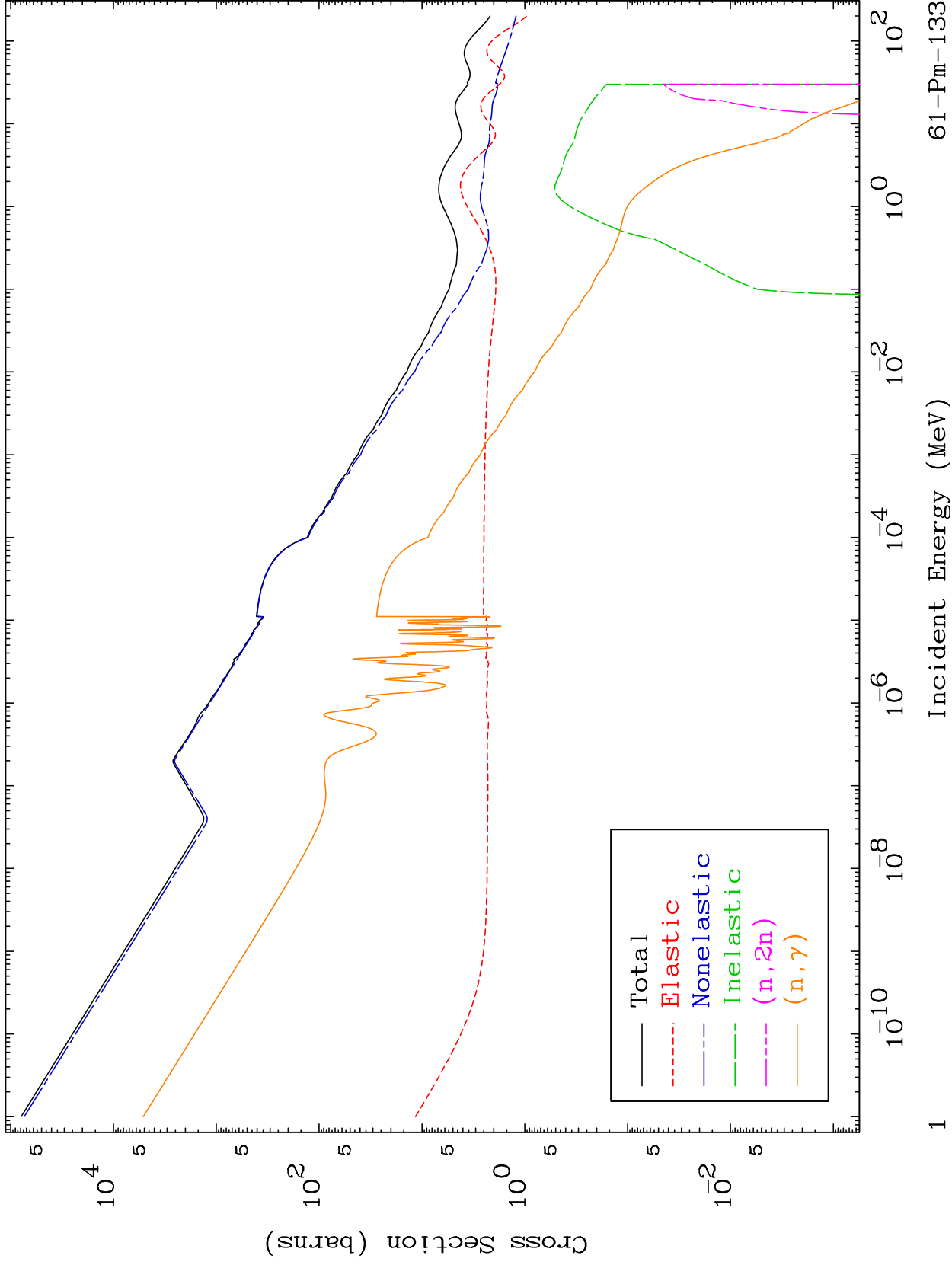
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6107

Neutron Major  
293 Kelvin Cross Sections

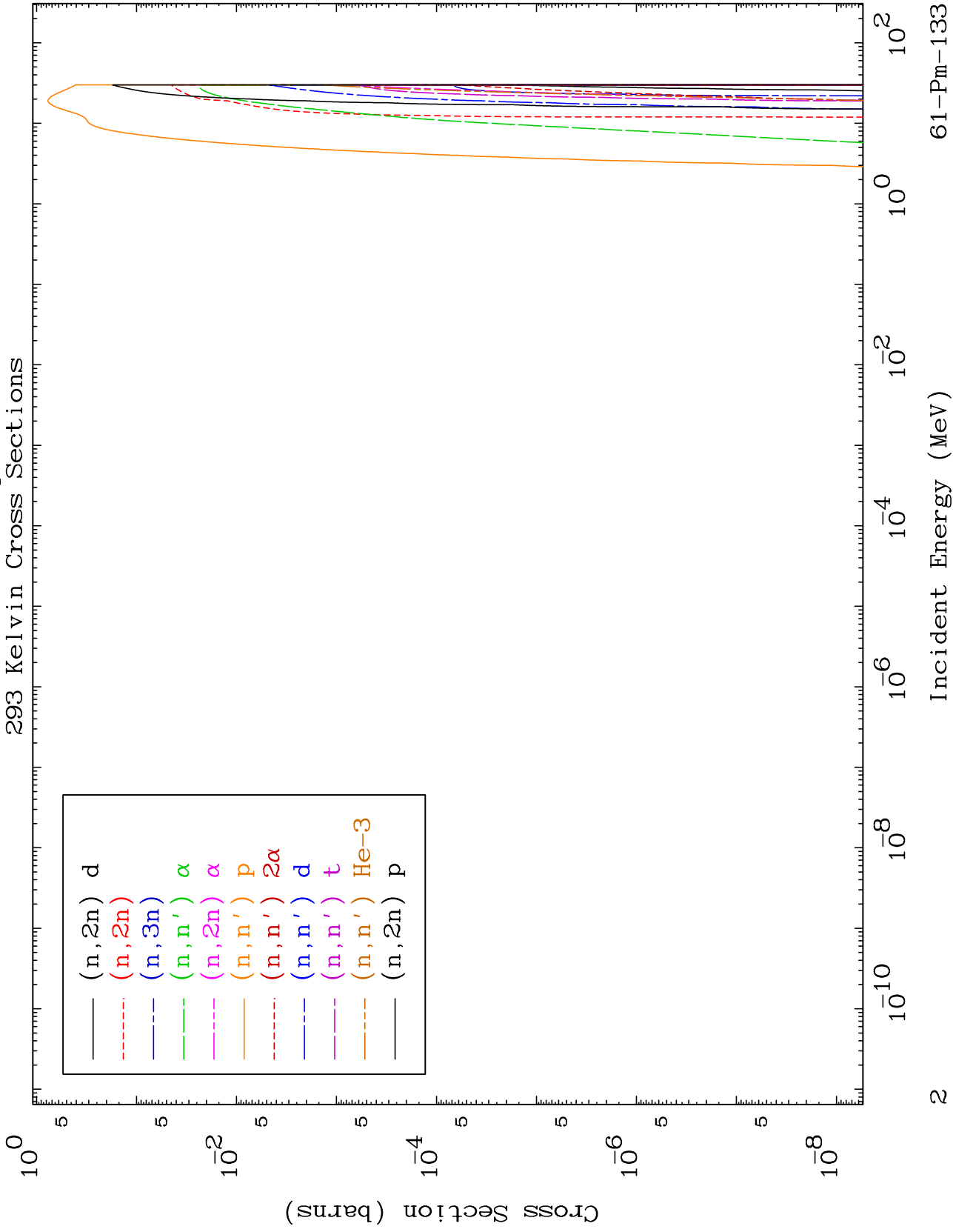
61-Pm-133



MAT 6107

Neutron Absorption  
293 Kelvin Cross Sections

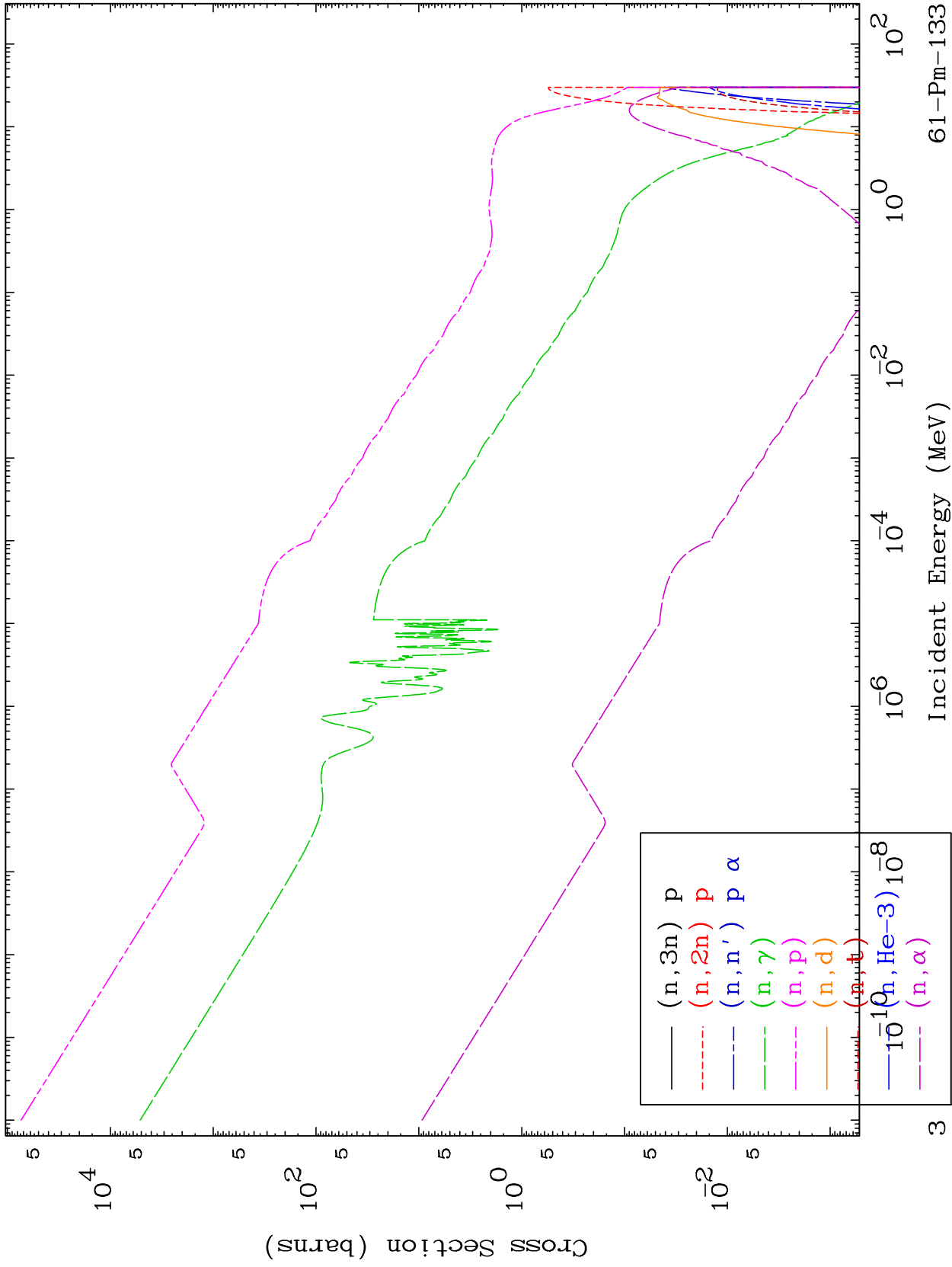
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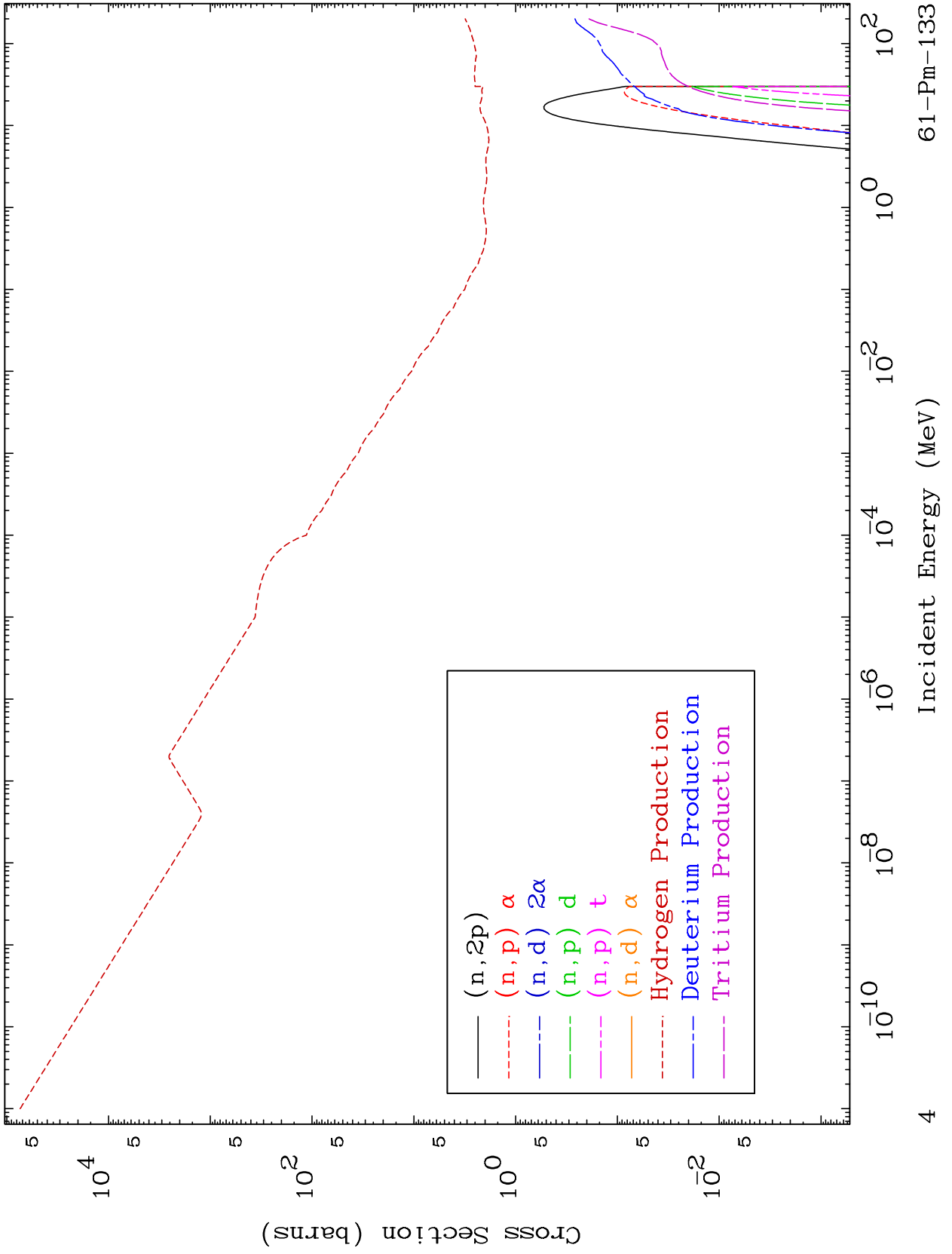


MAT 6107

Neutron Absorption  
293 Kelvin Cross Sections

61-Pm-133

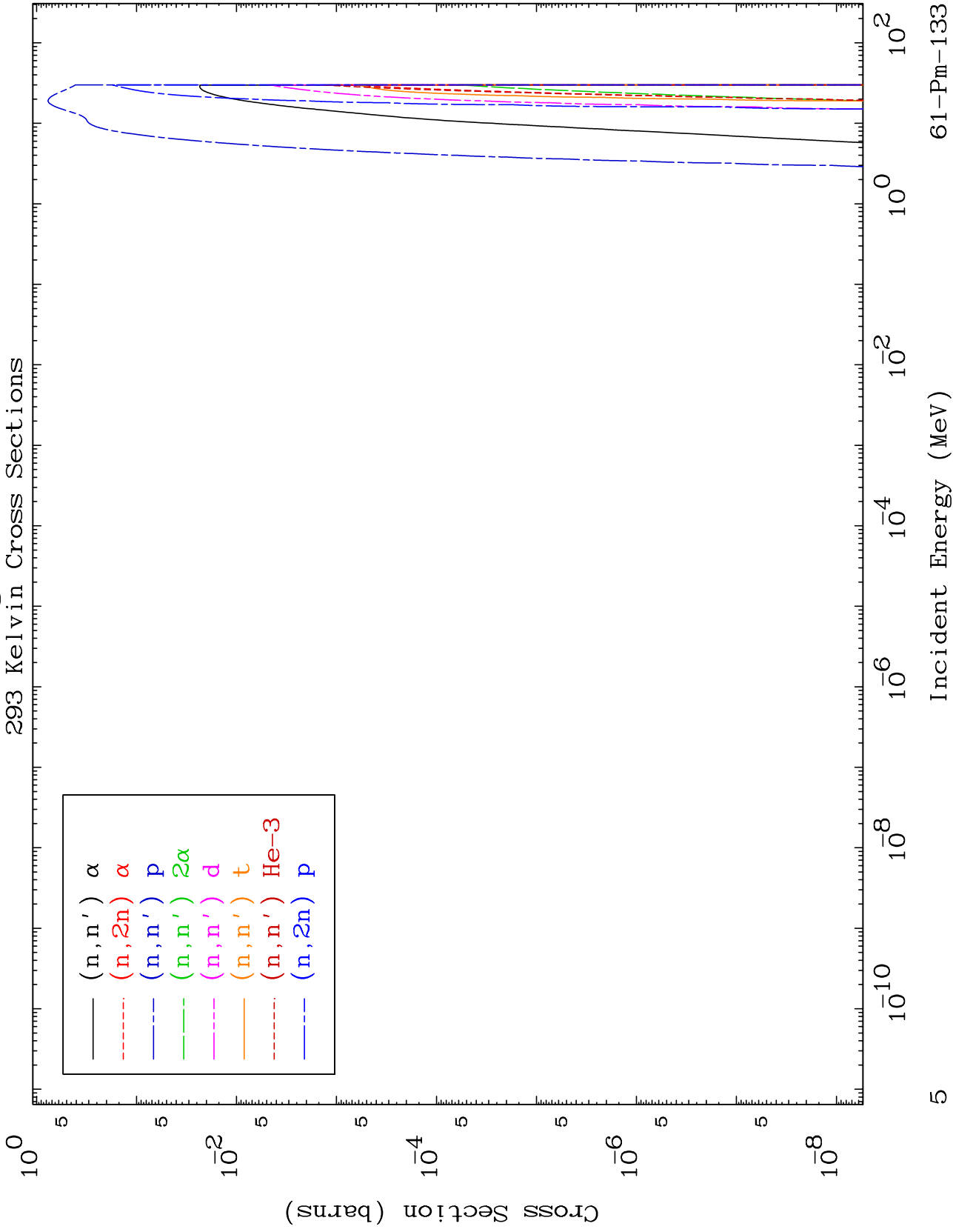




MAT 6107

Charged Particle  
293 Kelvin Cross Sections

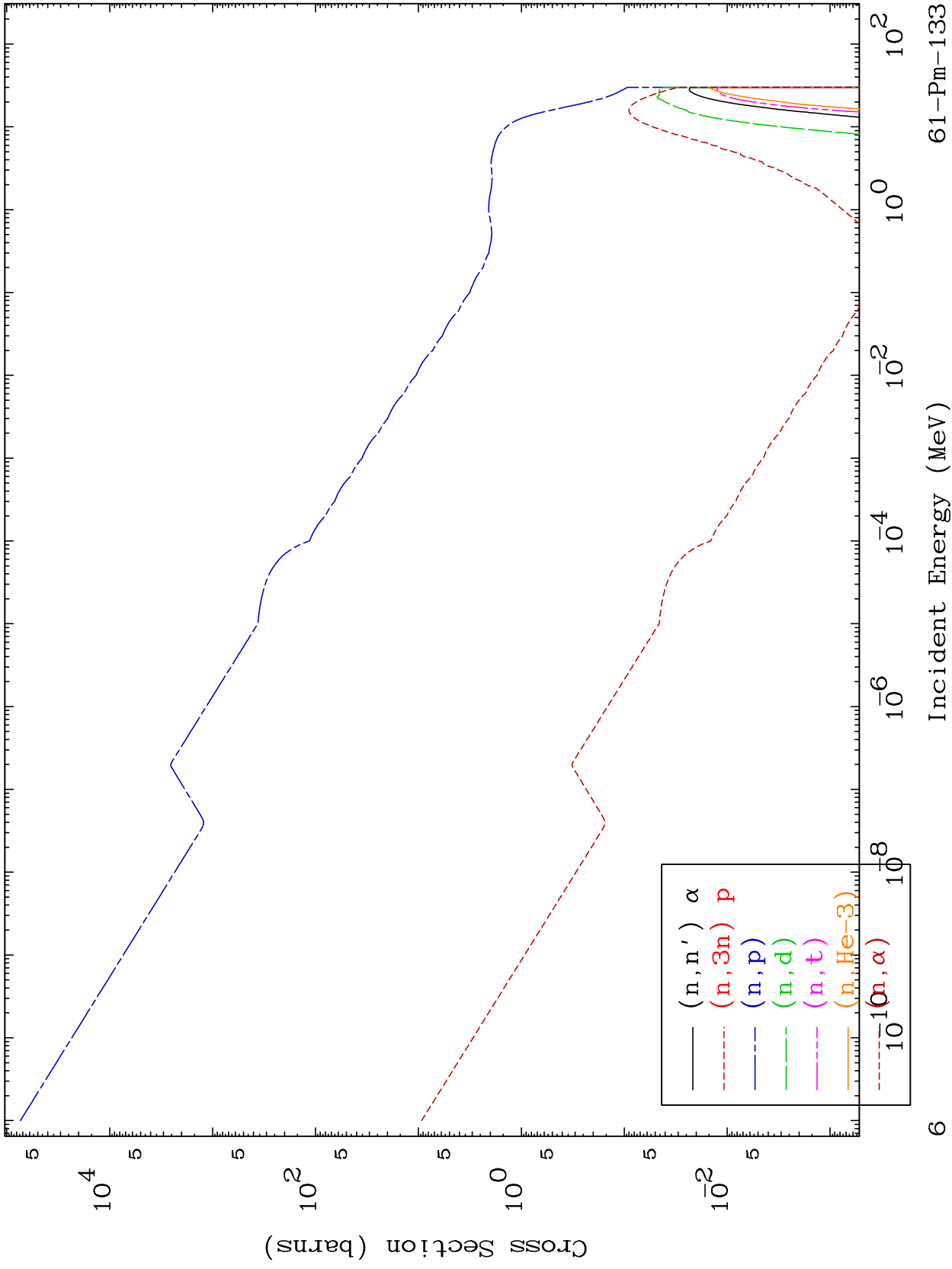
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MAT 6107

Charged Particle  
293 Kelvin Cross Sections

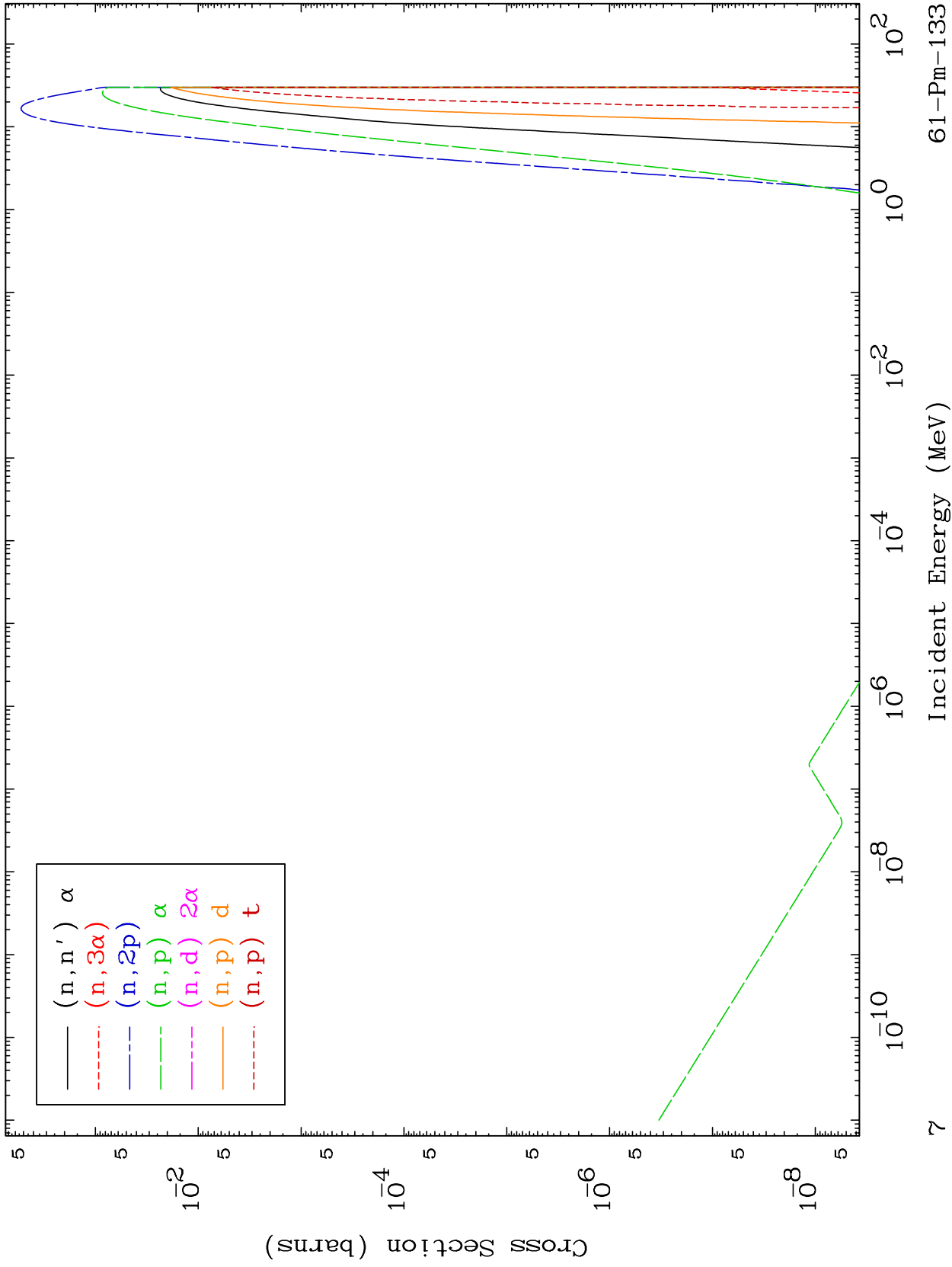
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MAT 6107

Charged Particle  
293 Kelvin Cross Sections

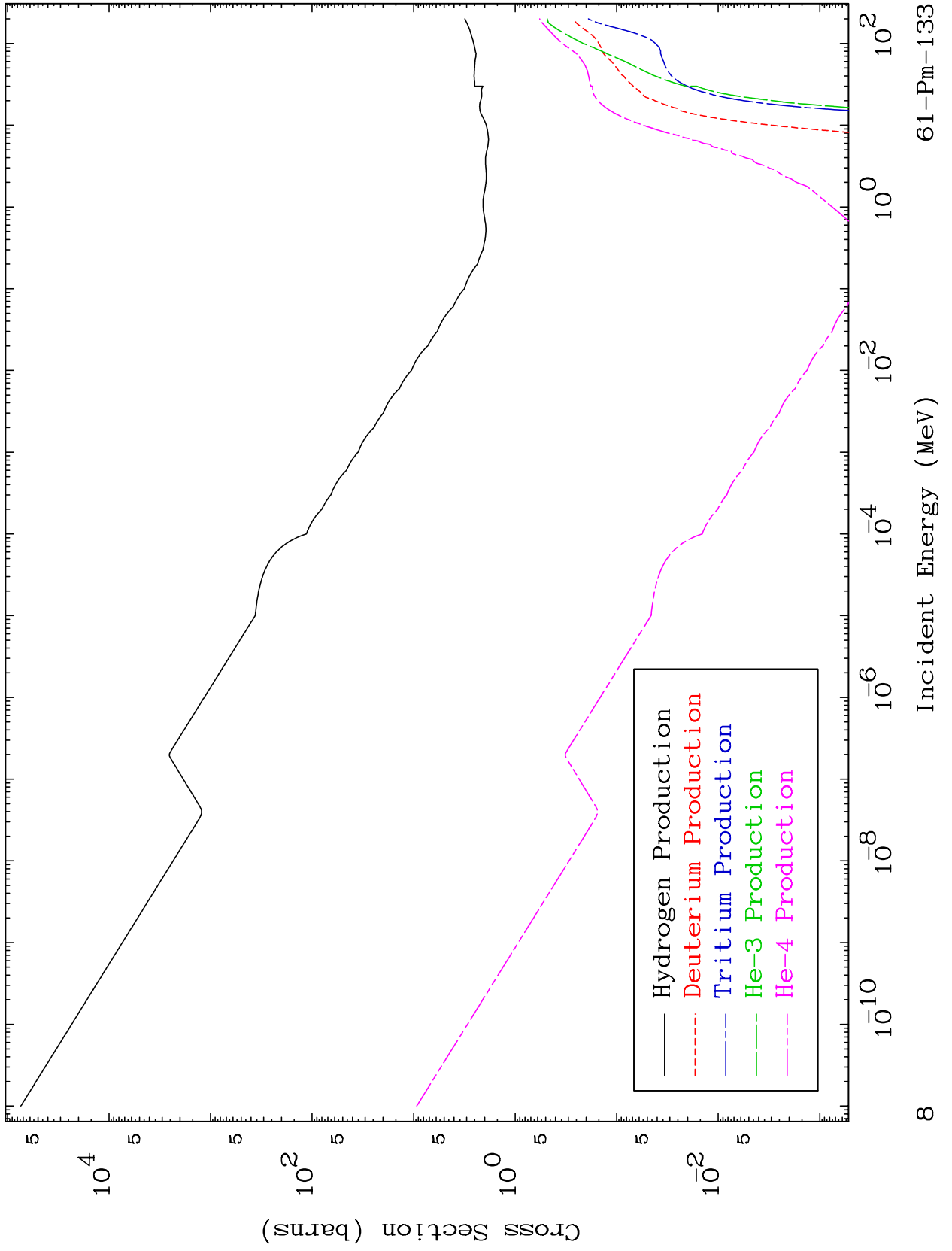
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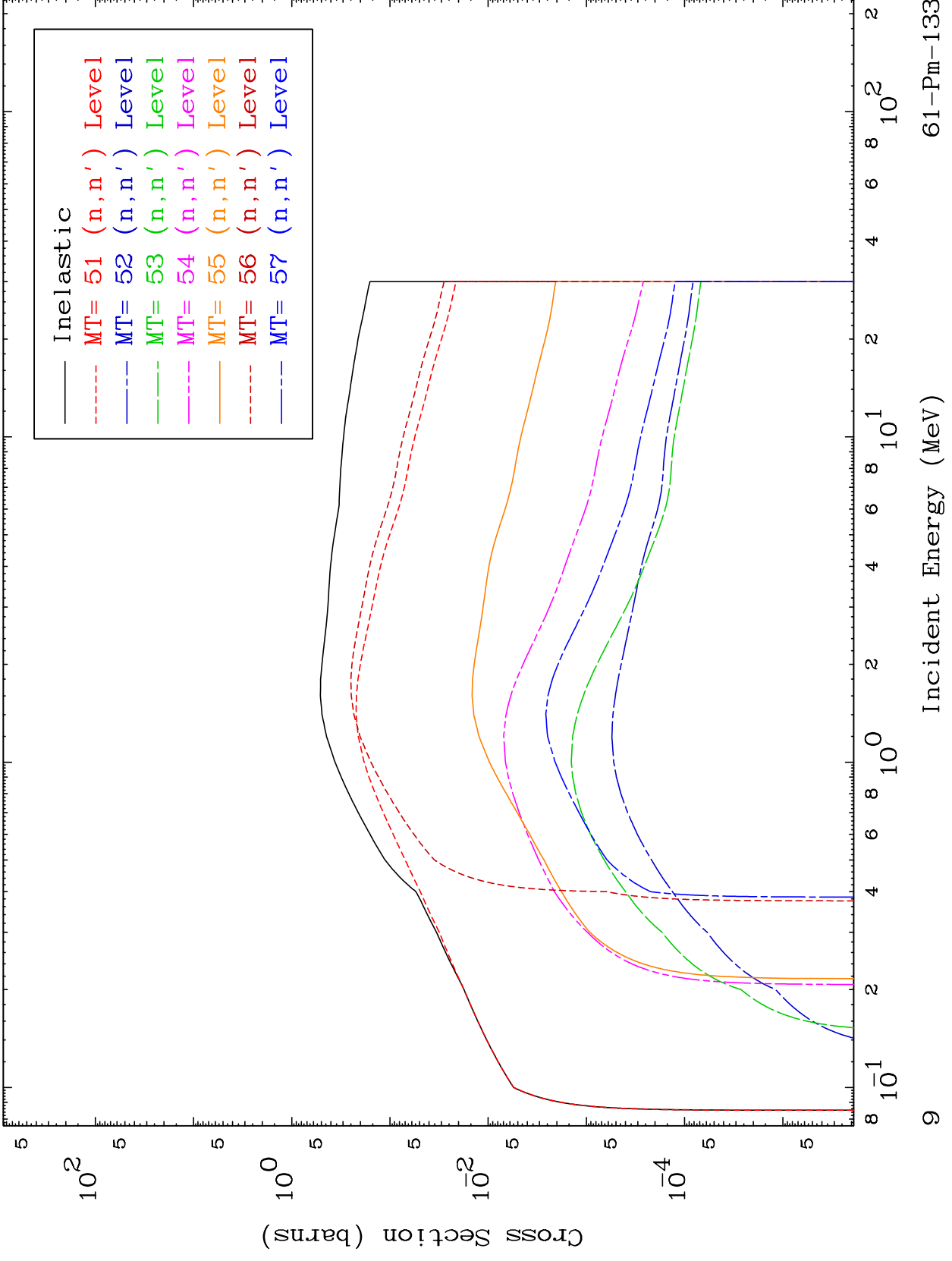


MAT 6107

Particle Production  
293 Kelvin Cross Sections

61-Pm-133



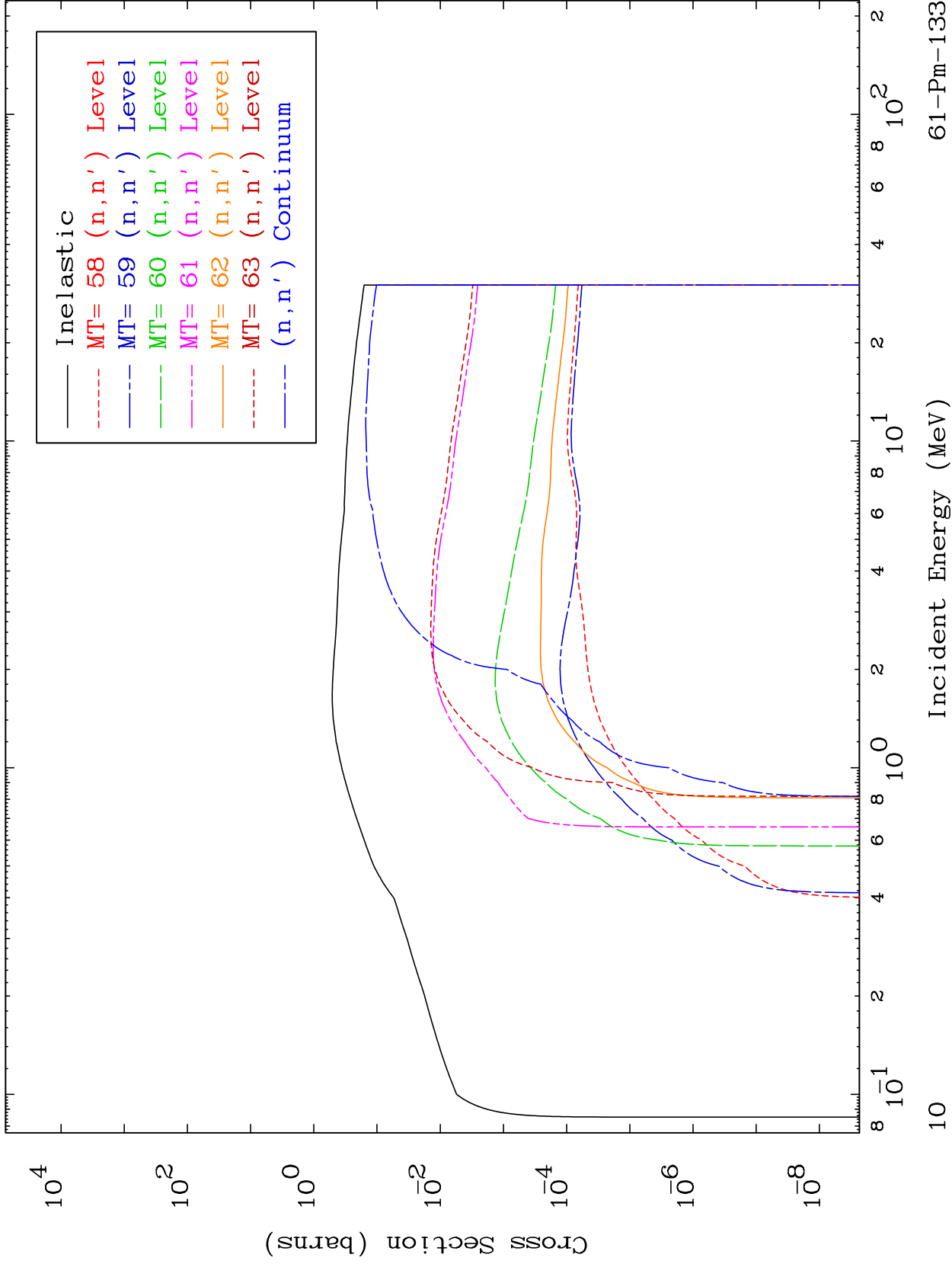


MAT 6107

(n,n') Levels

61-Pm-133

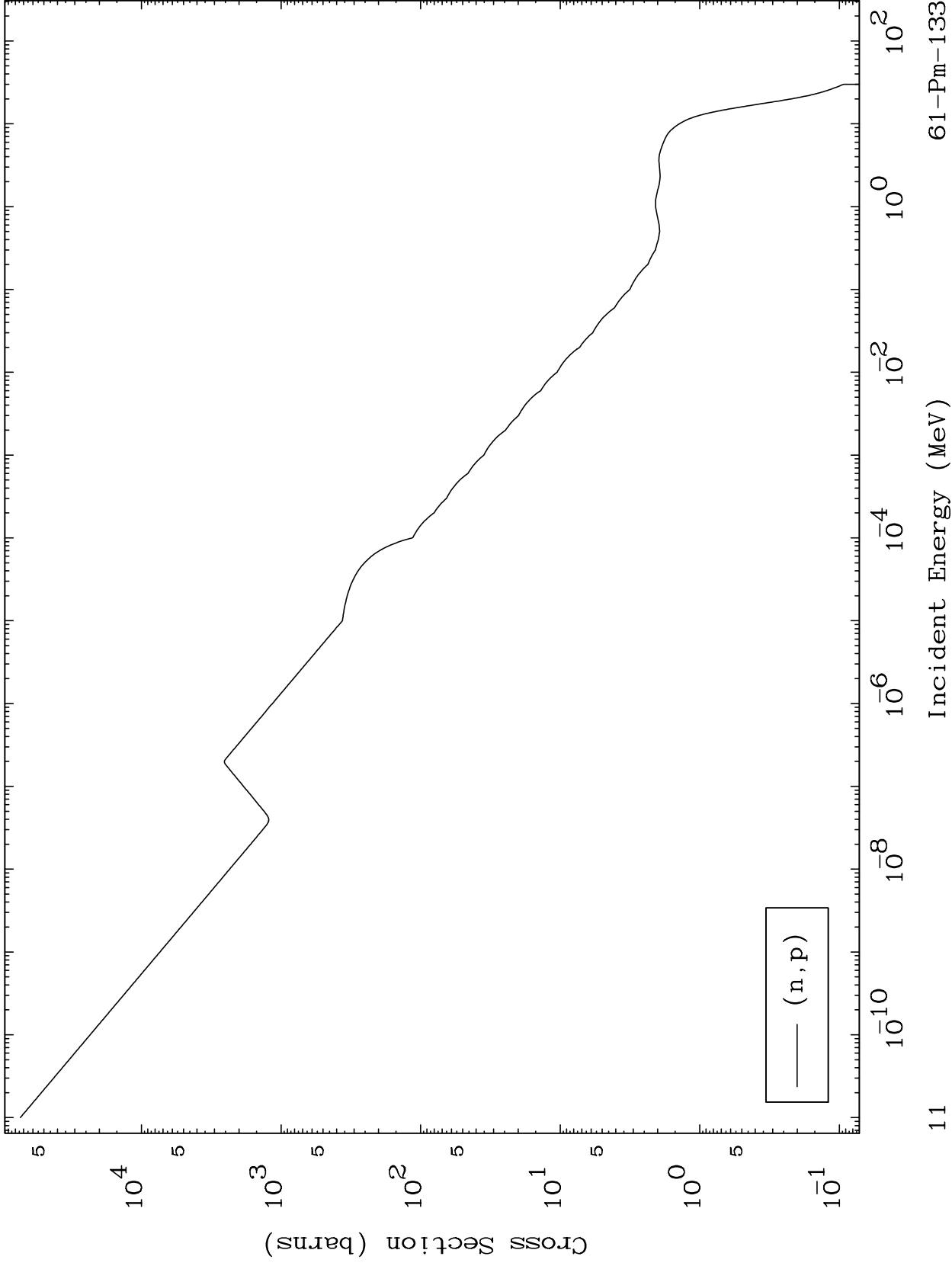
293 Kelvin Cross Sections



MAT 6107

(n,p) Levels  
293 Kelvin Cross Sections

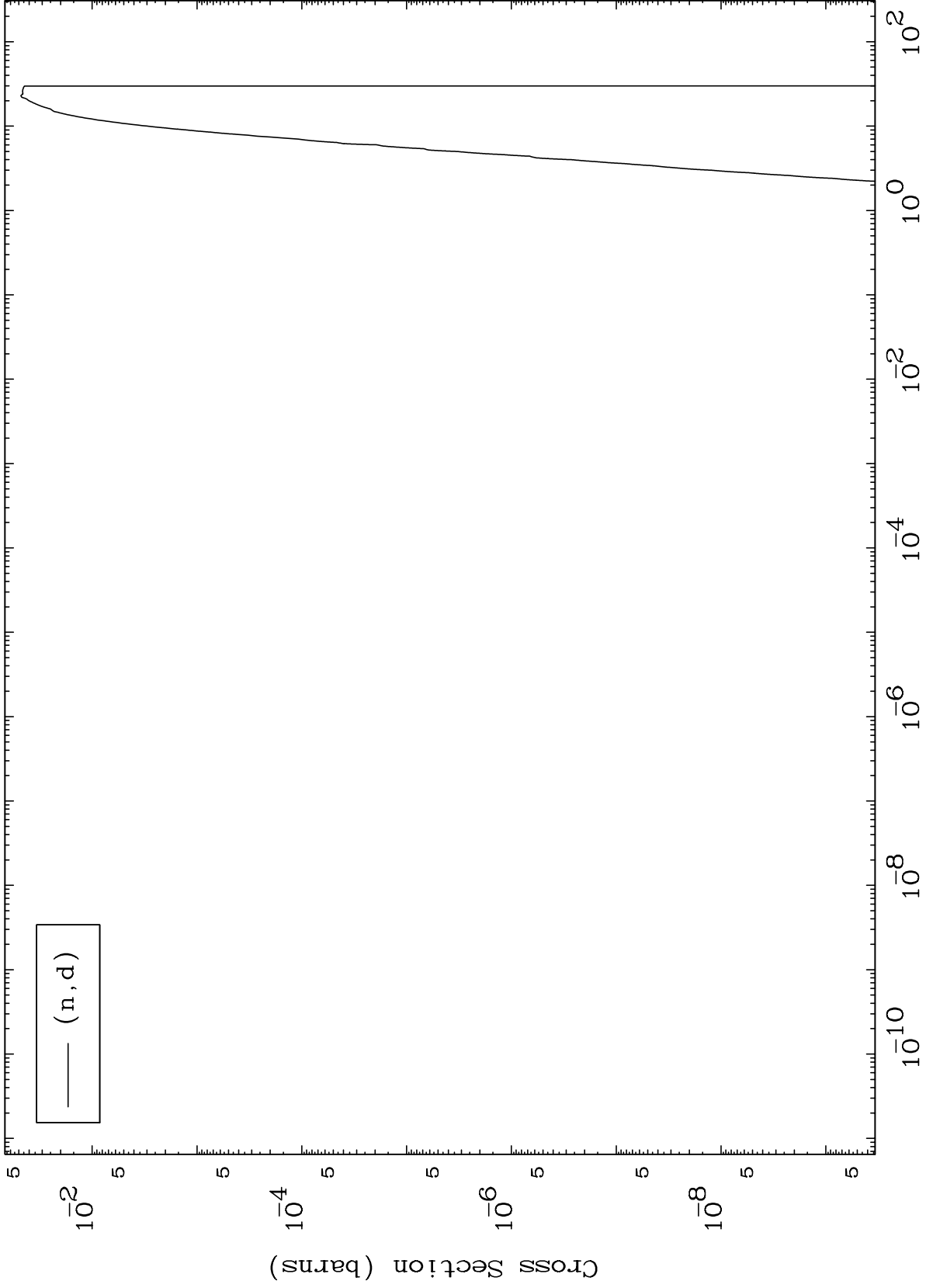
61-Pm-133



MAT 6107

(n,d) Levels  
293 Kelvin Cross Sections

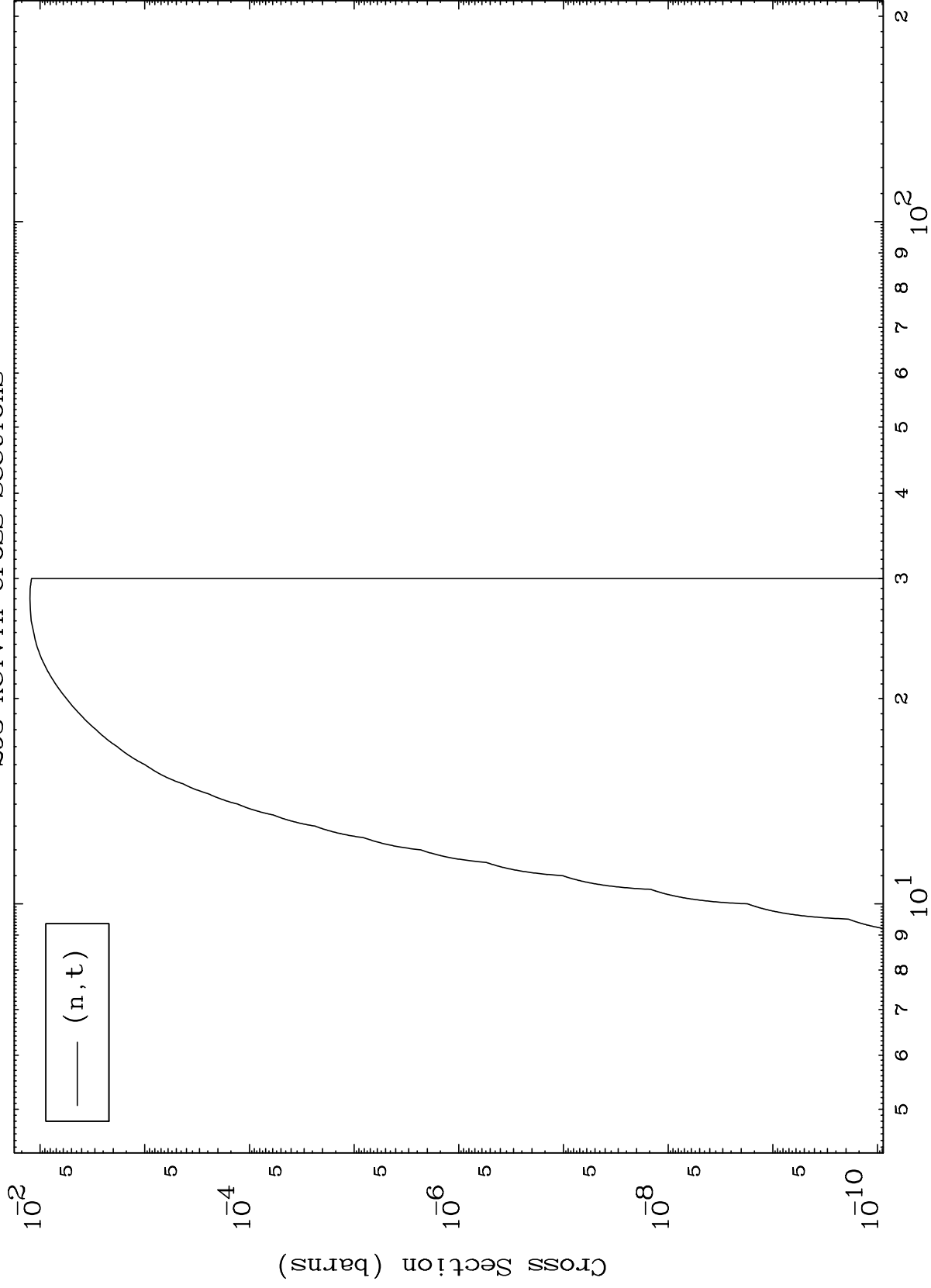
61-Pm-133



MAT 6107

(n,t) Levels  
293 Kelvin Cross Sections

61-Pm-133



13

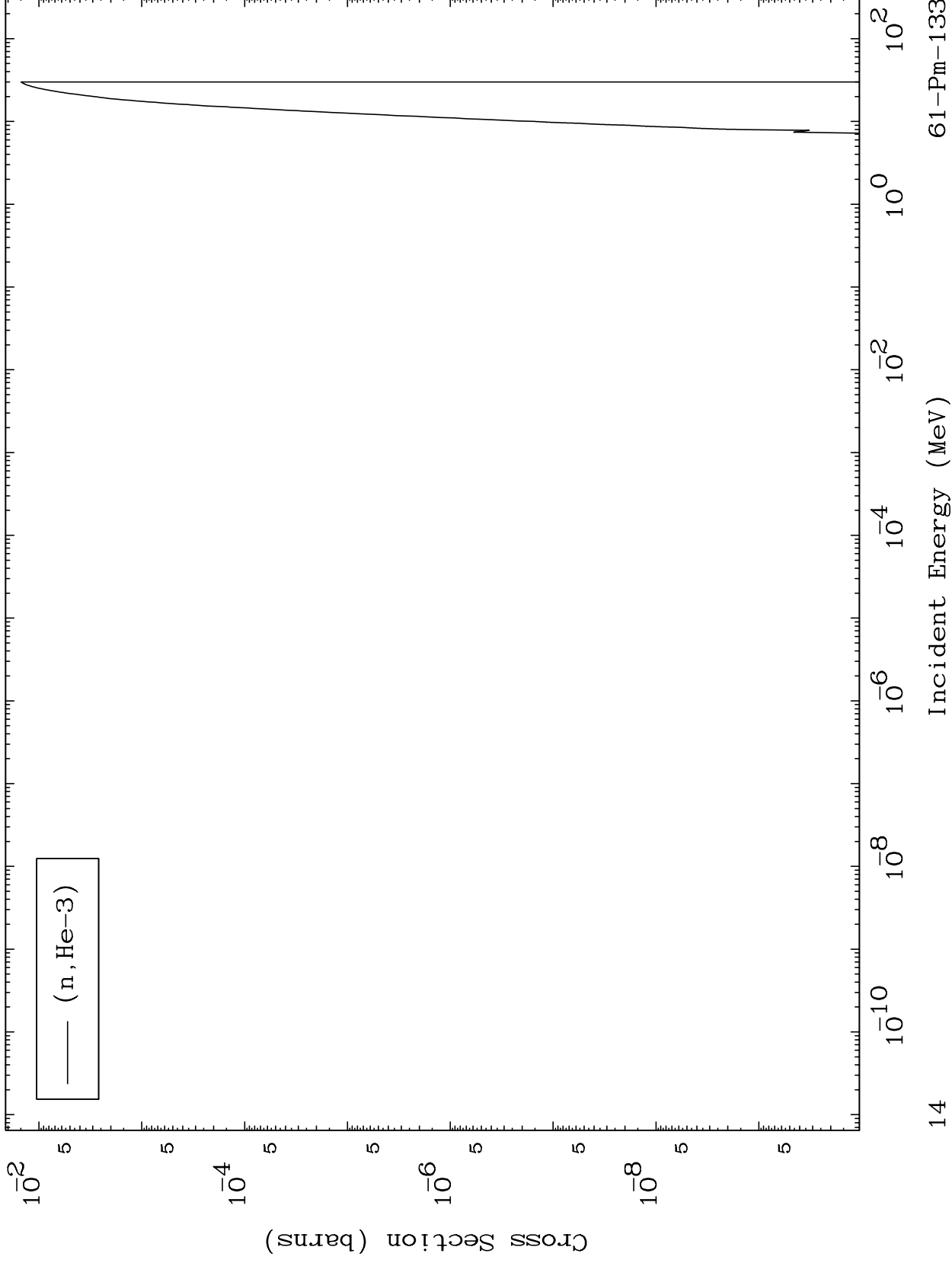
Incident Energy (MeV)

61-Pm-133

MAT 6107

(n,He3) Levels  
293 Kelvin Cross Sections

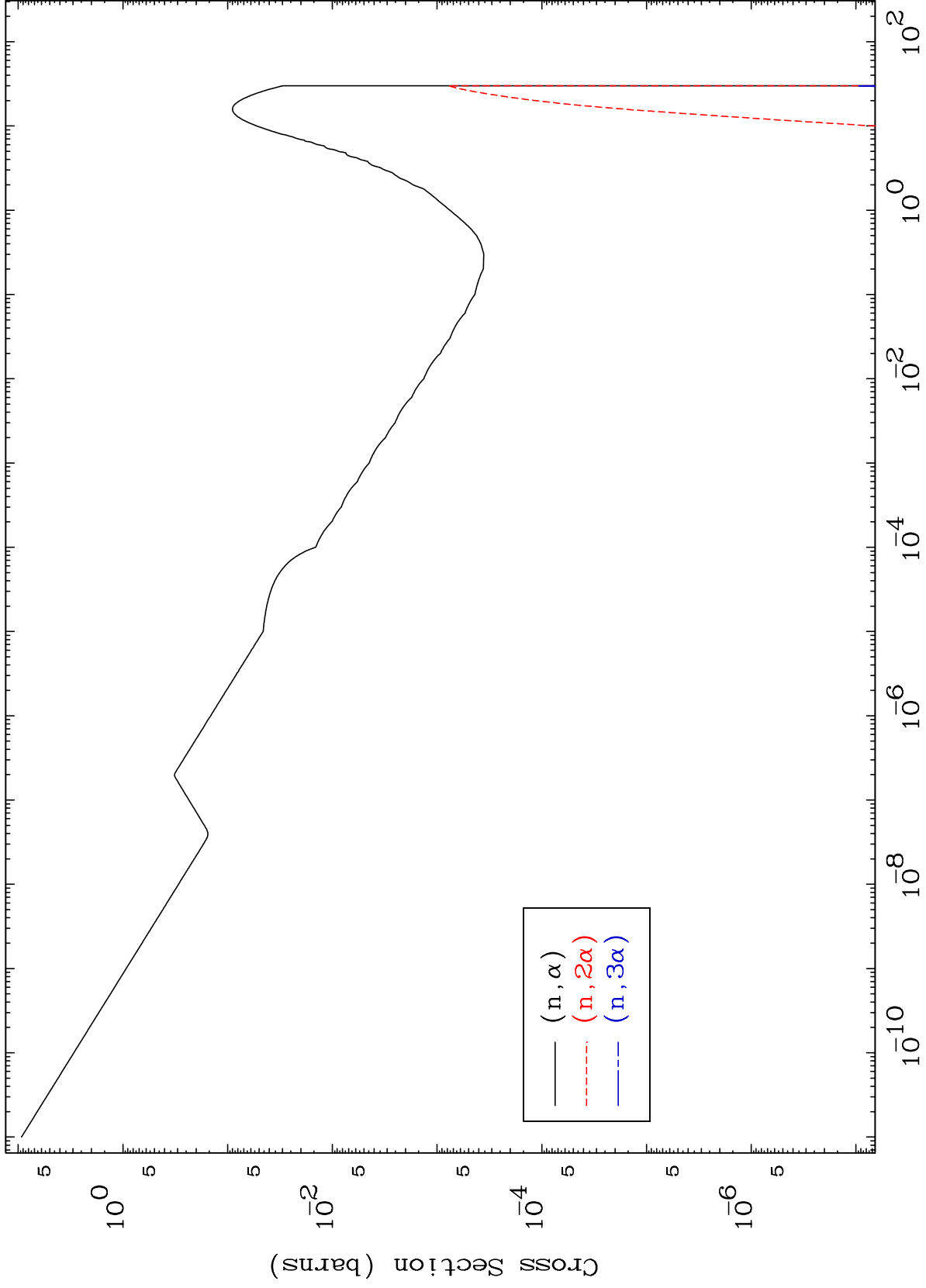
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MAT 6107

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

61-Pm-133



15

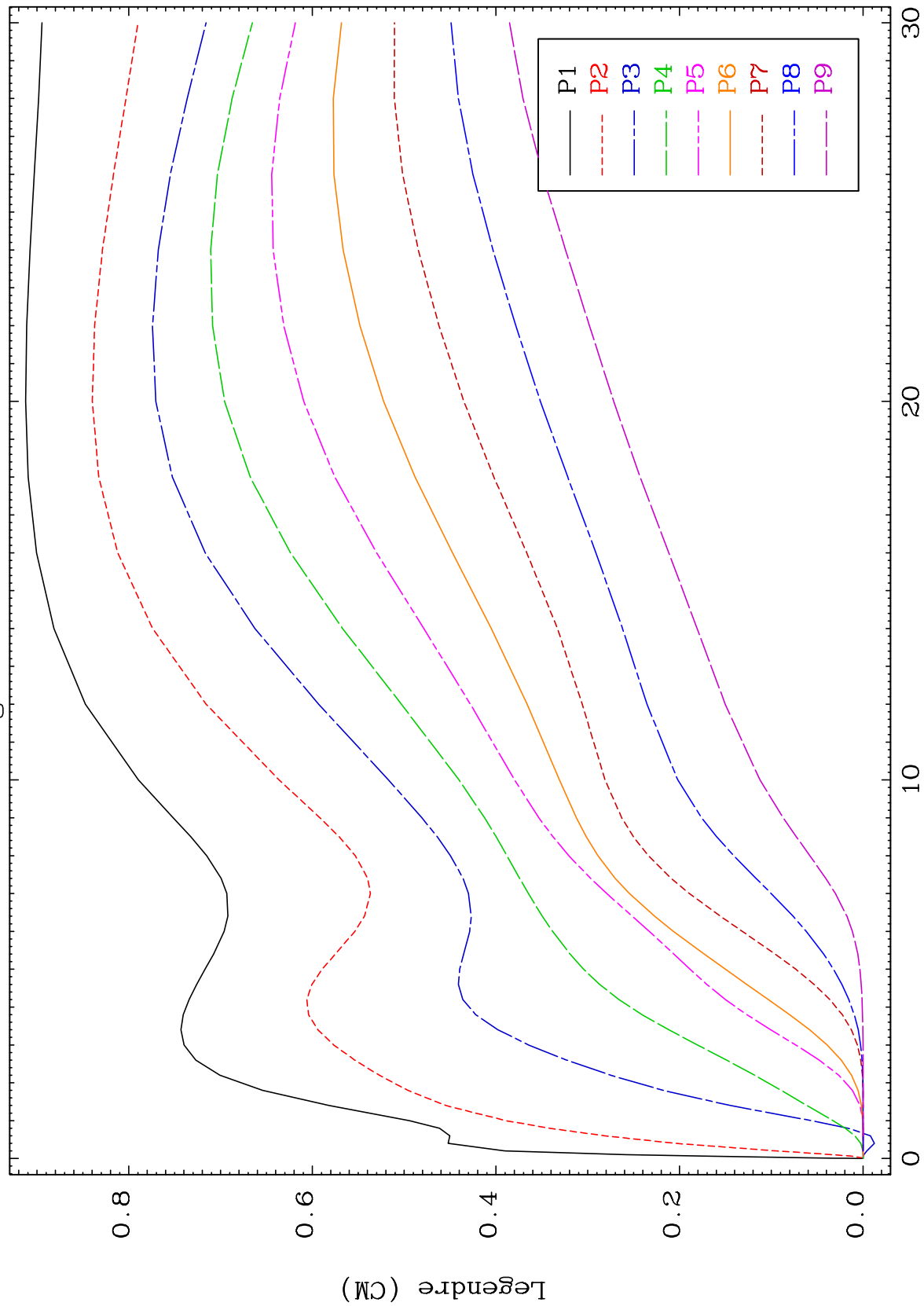
Incident Energy (MeV)

61-Pm-133

MAT 6107

Elastic Legendre Coefficients

61-Pm-133



16

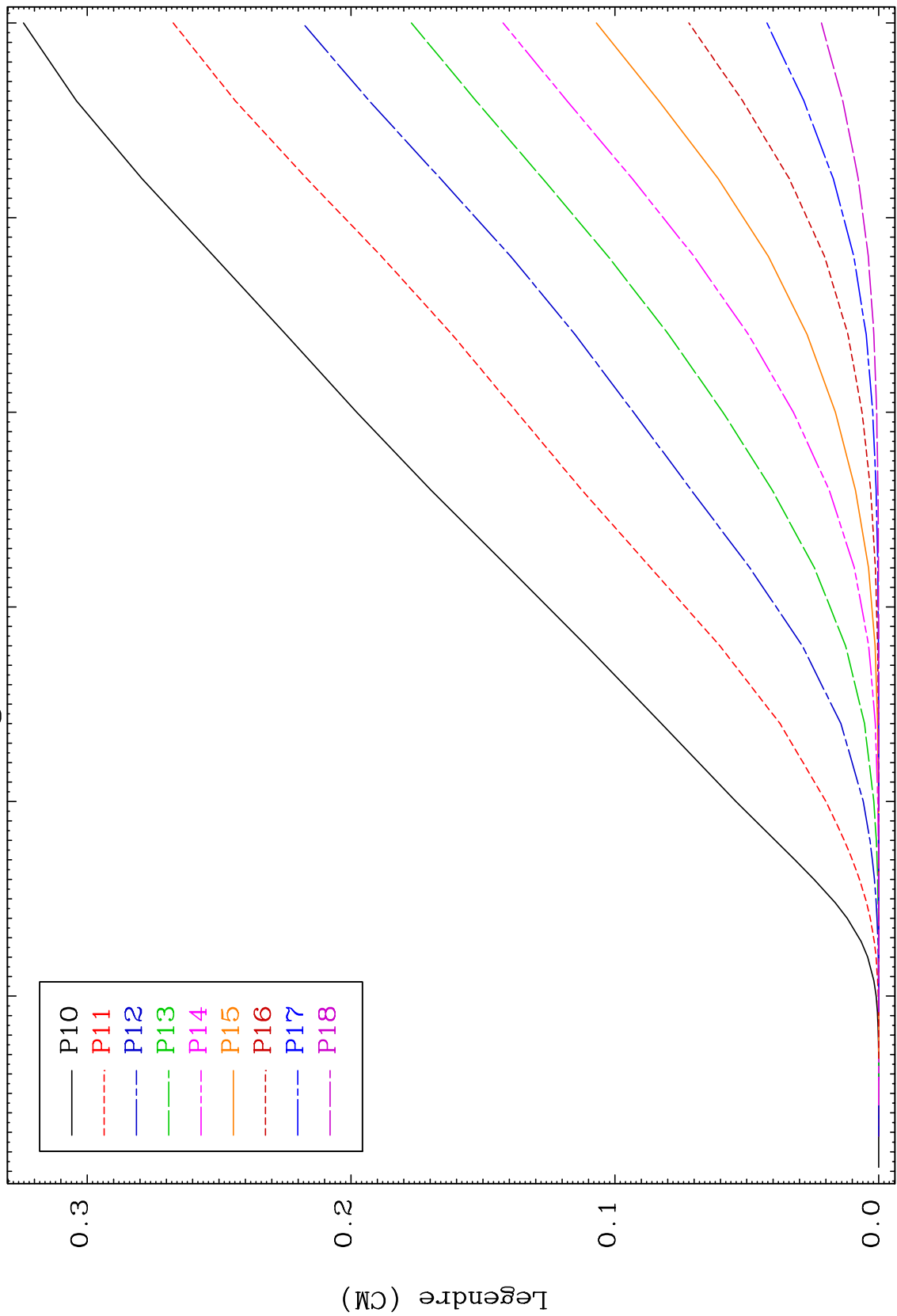
Incident Energy (MeV)

61-Pm-133

MAT 6107

Elastic Legendre Coefficients

61-Pm-133



17

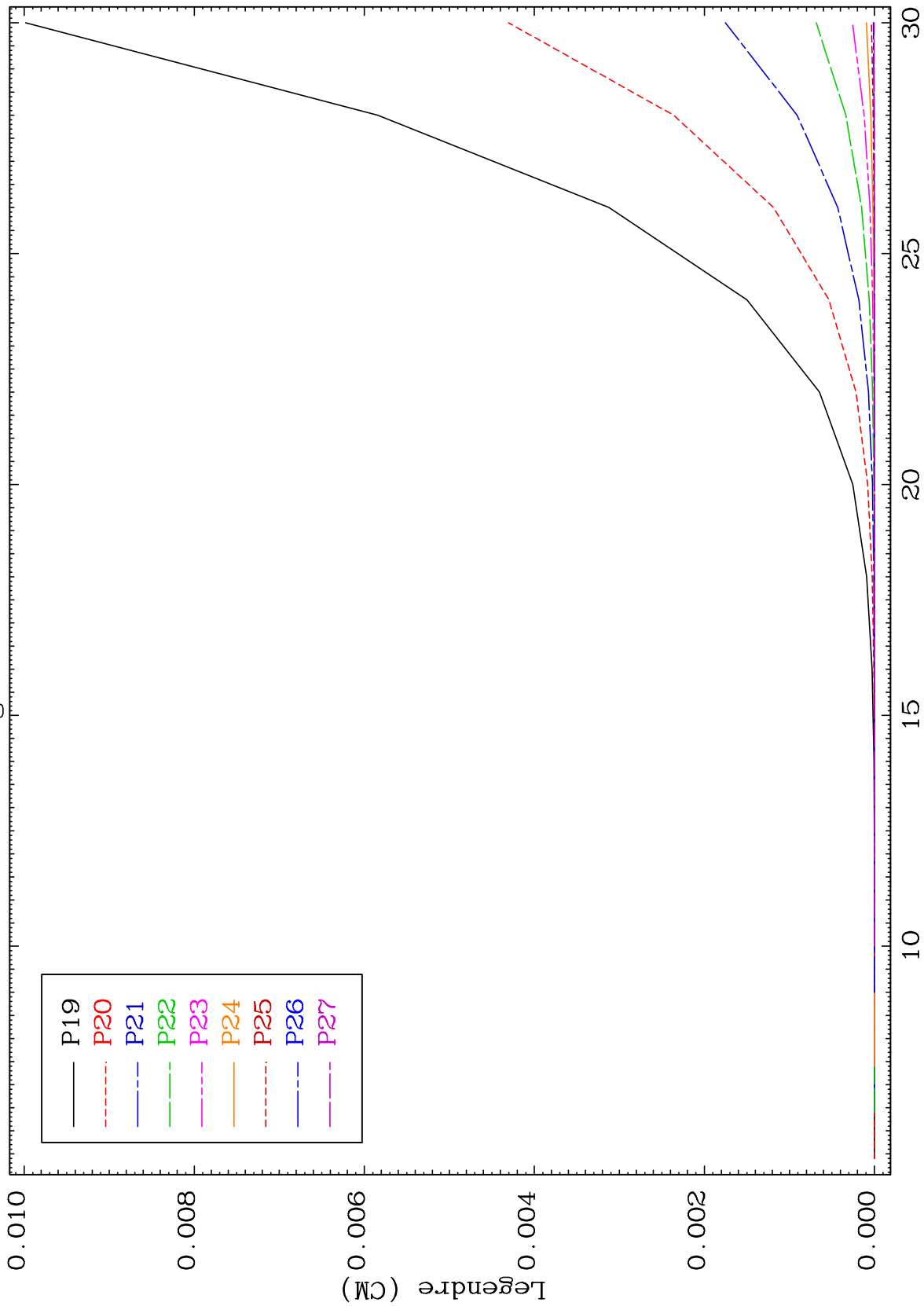
Incident Energy (MeV)

61-Pm-133

MAT 6107

### Elastic Legendre Coefficients

61-Pm-133



18

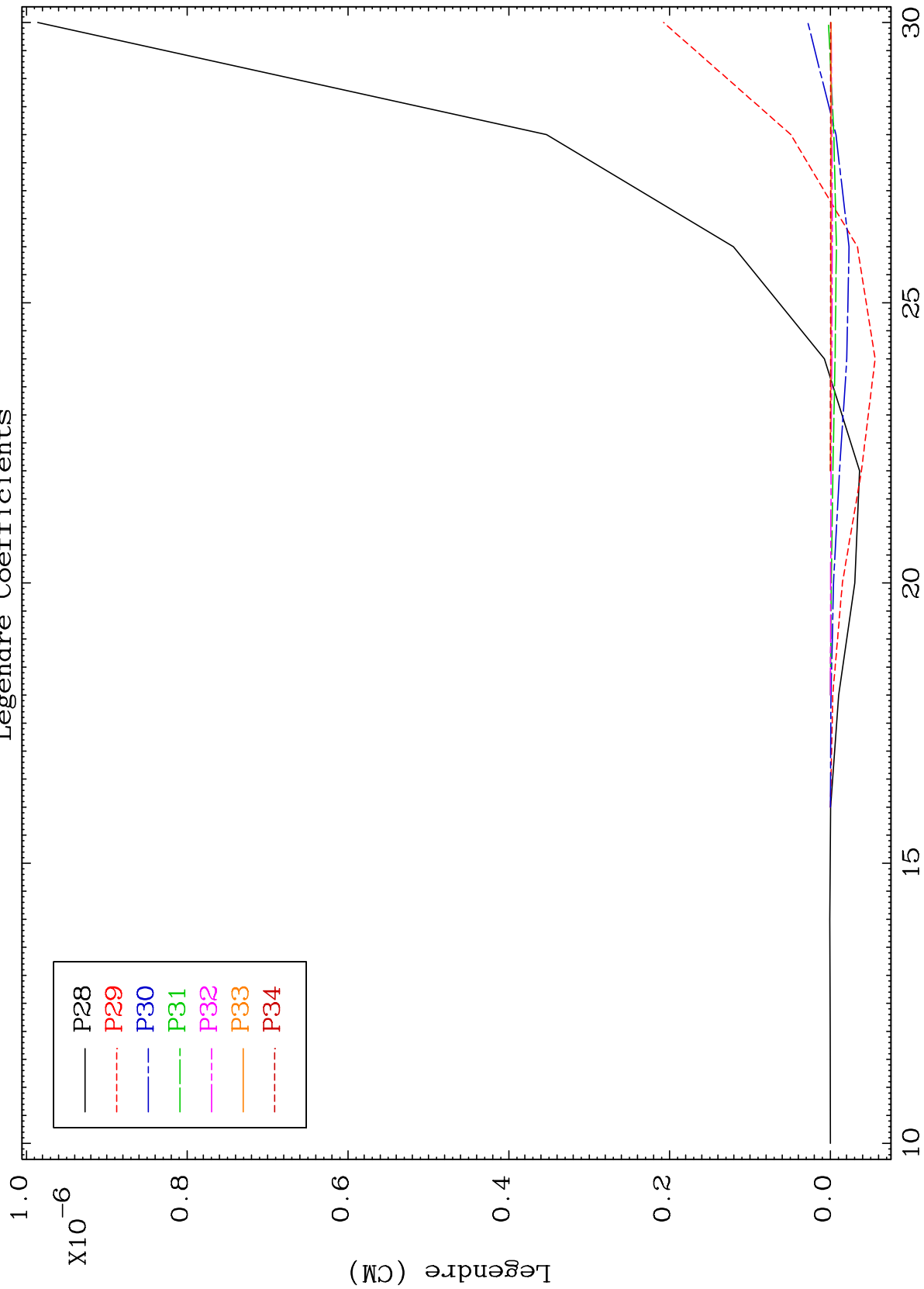
Incident Energy (MeV)

61-Pm-133

MAT 6107

Elastic  
Legendre Coefficients

61-Pm-133

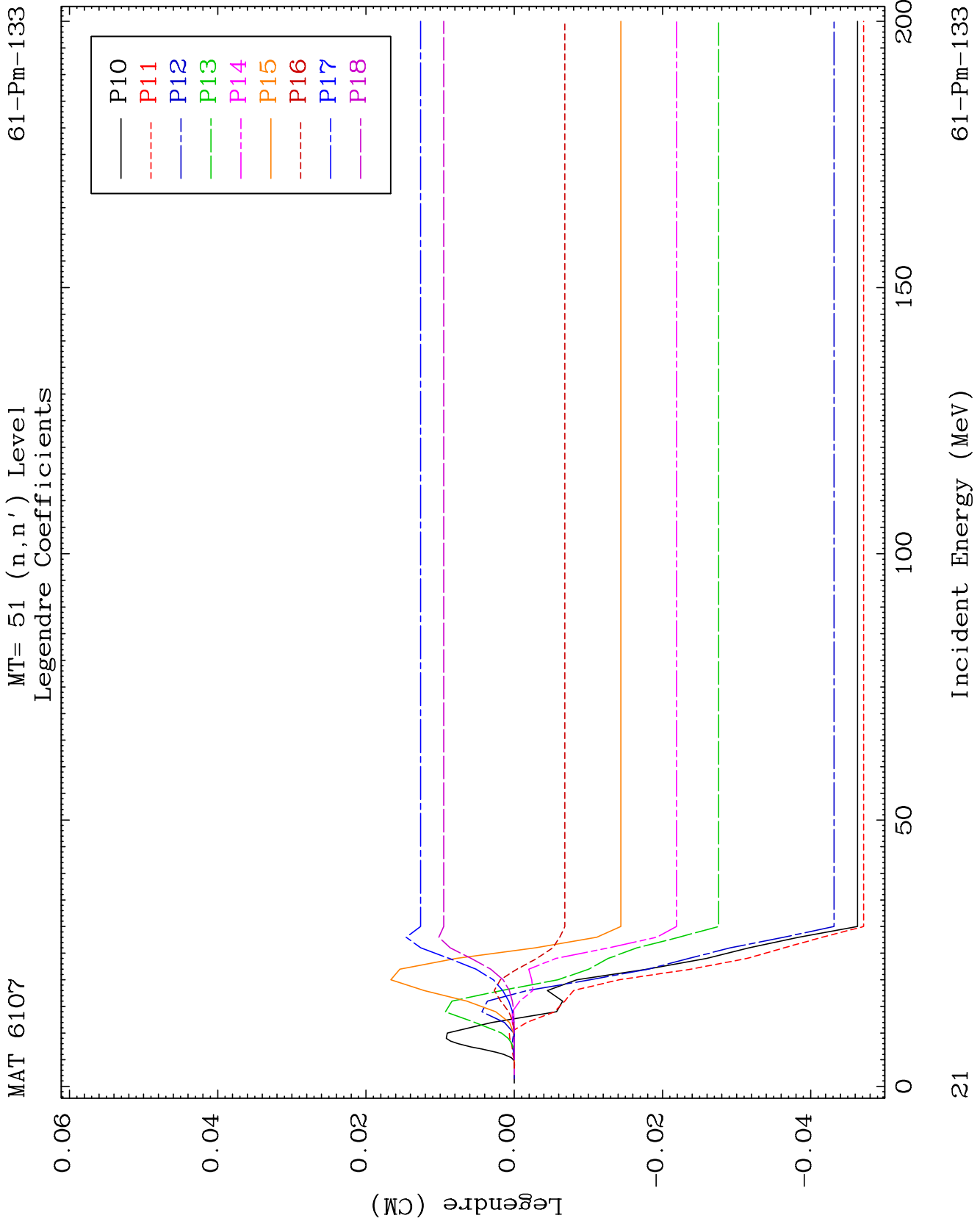


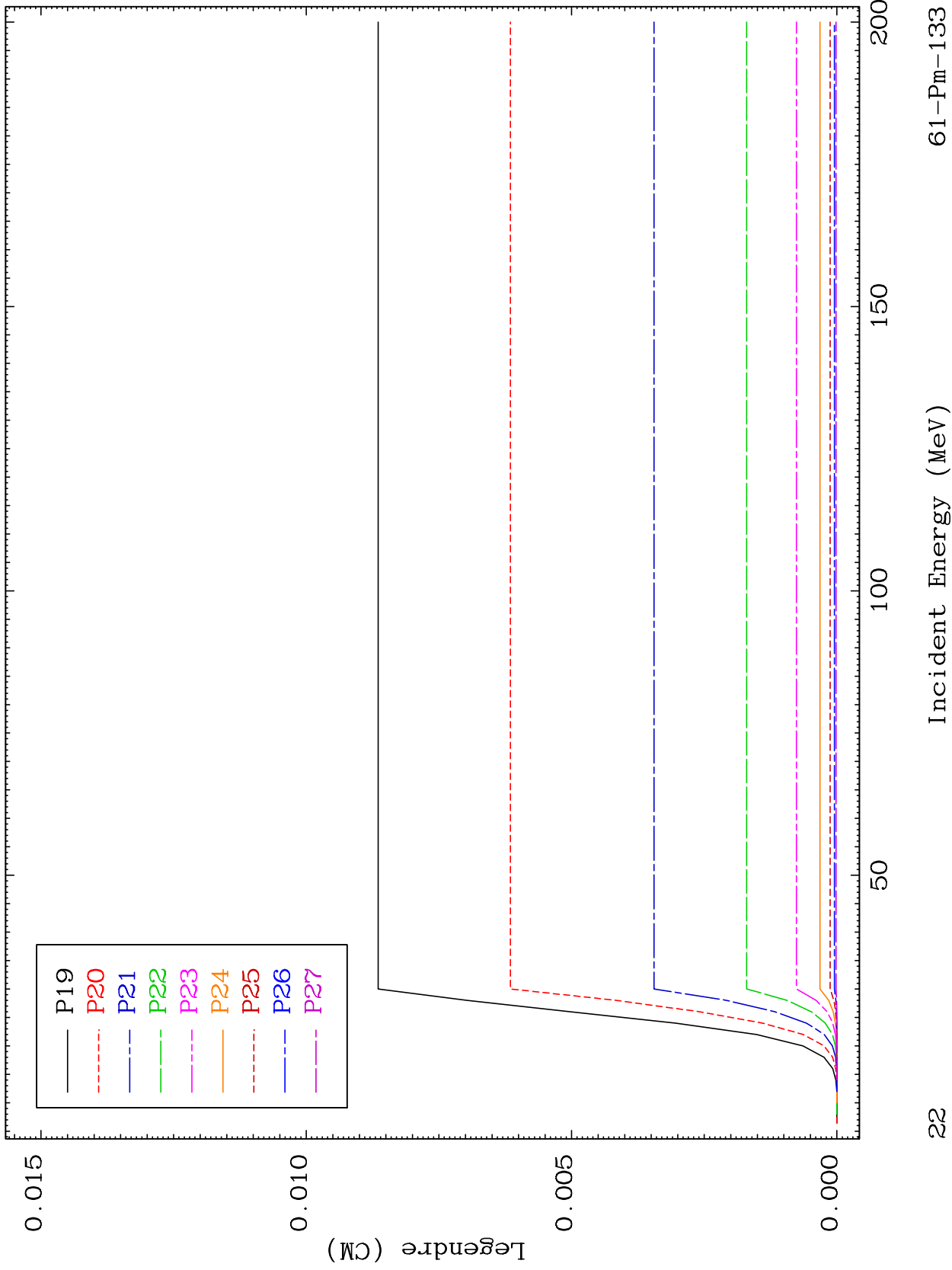
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Incident Energy (MeV)

61-Pm-133



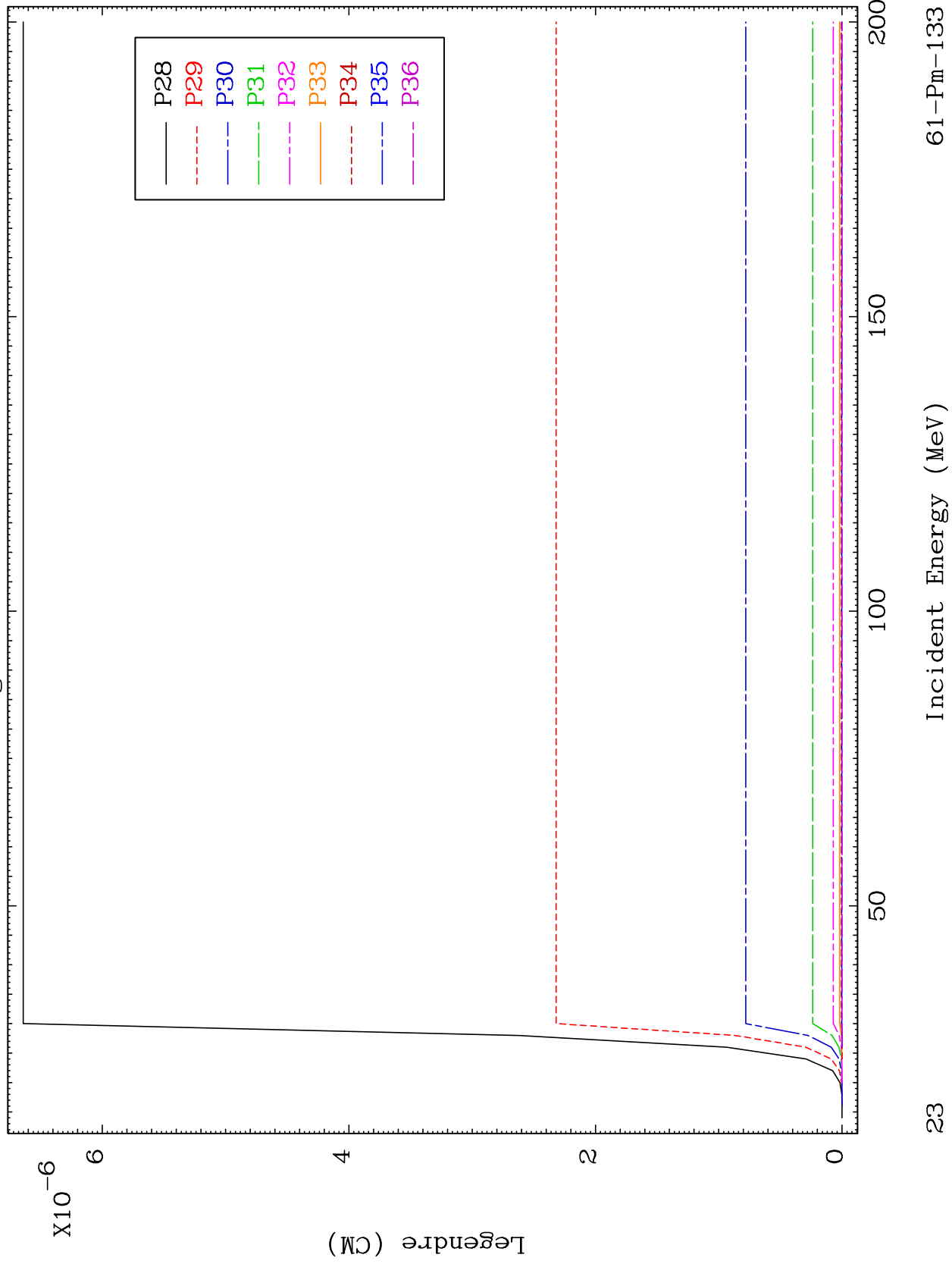




MAT 6107

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

61-Pm-133

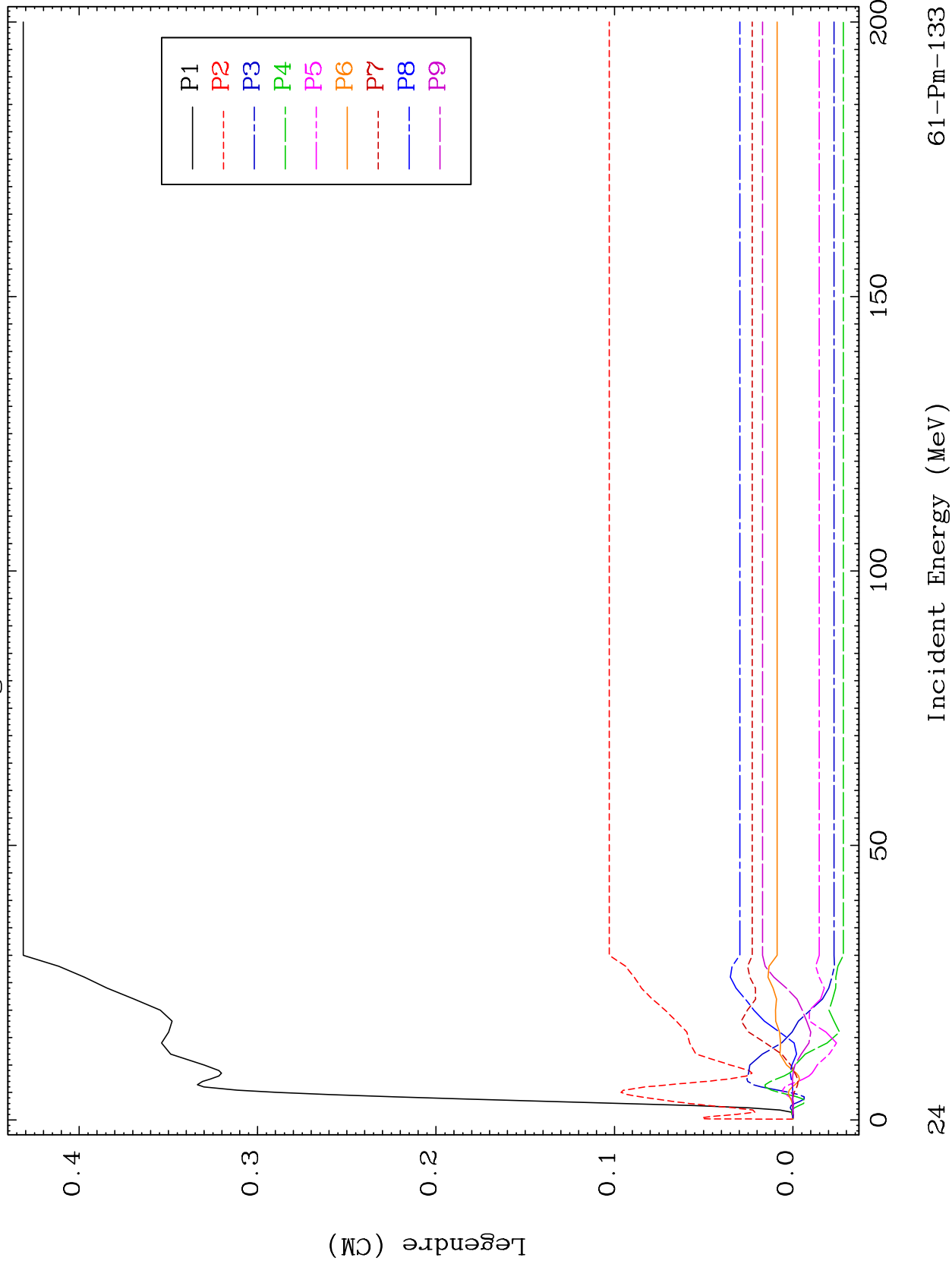


23

MAT 6107

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

61-Pm-133



61-Pm-133

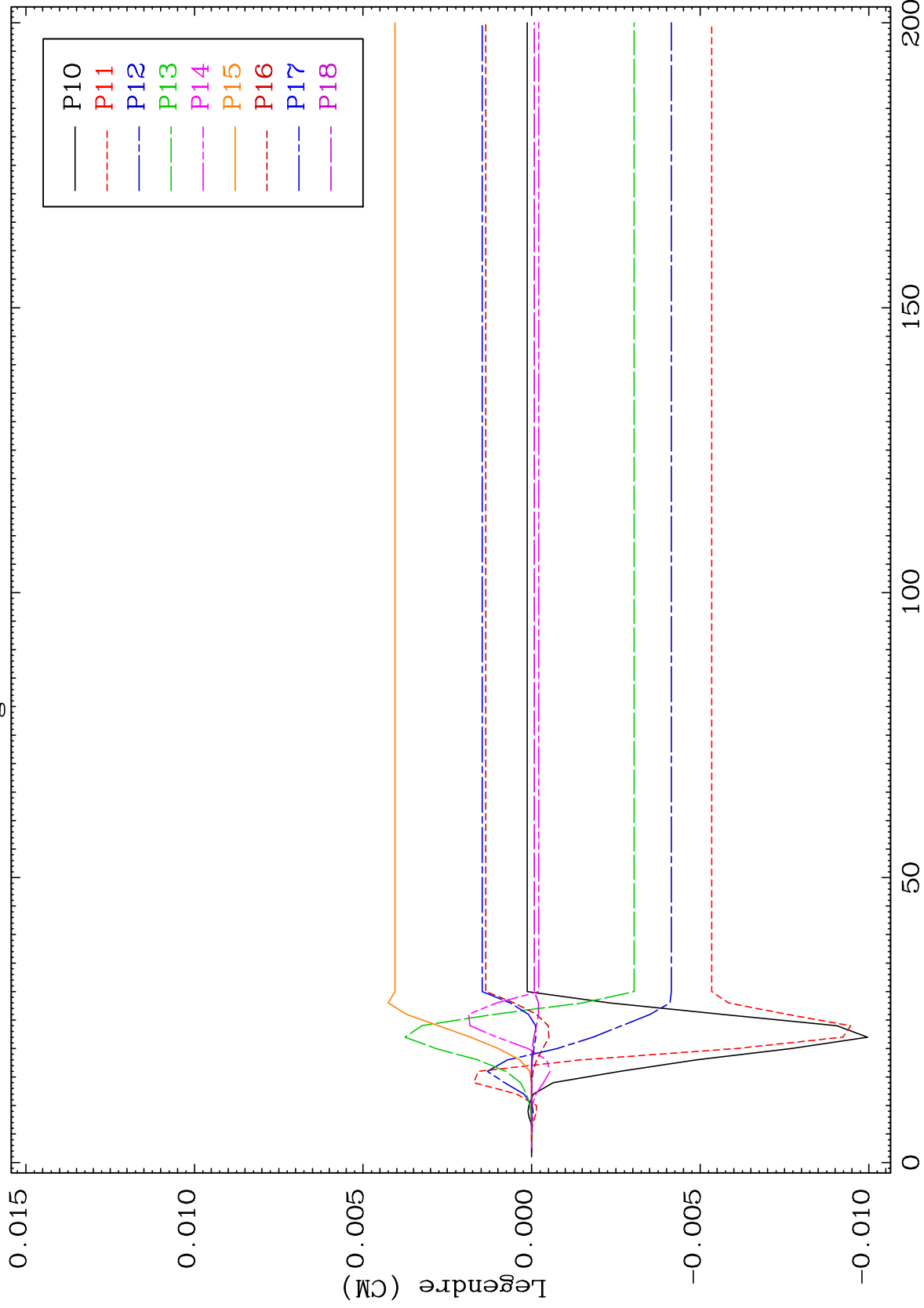
Incident Energy (MeV)

24

MAT 6107

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

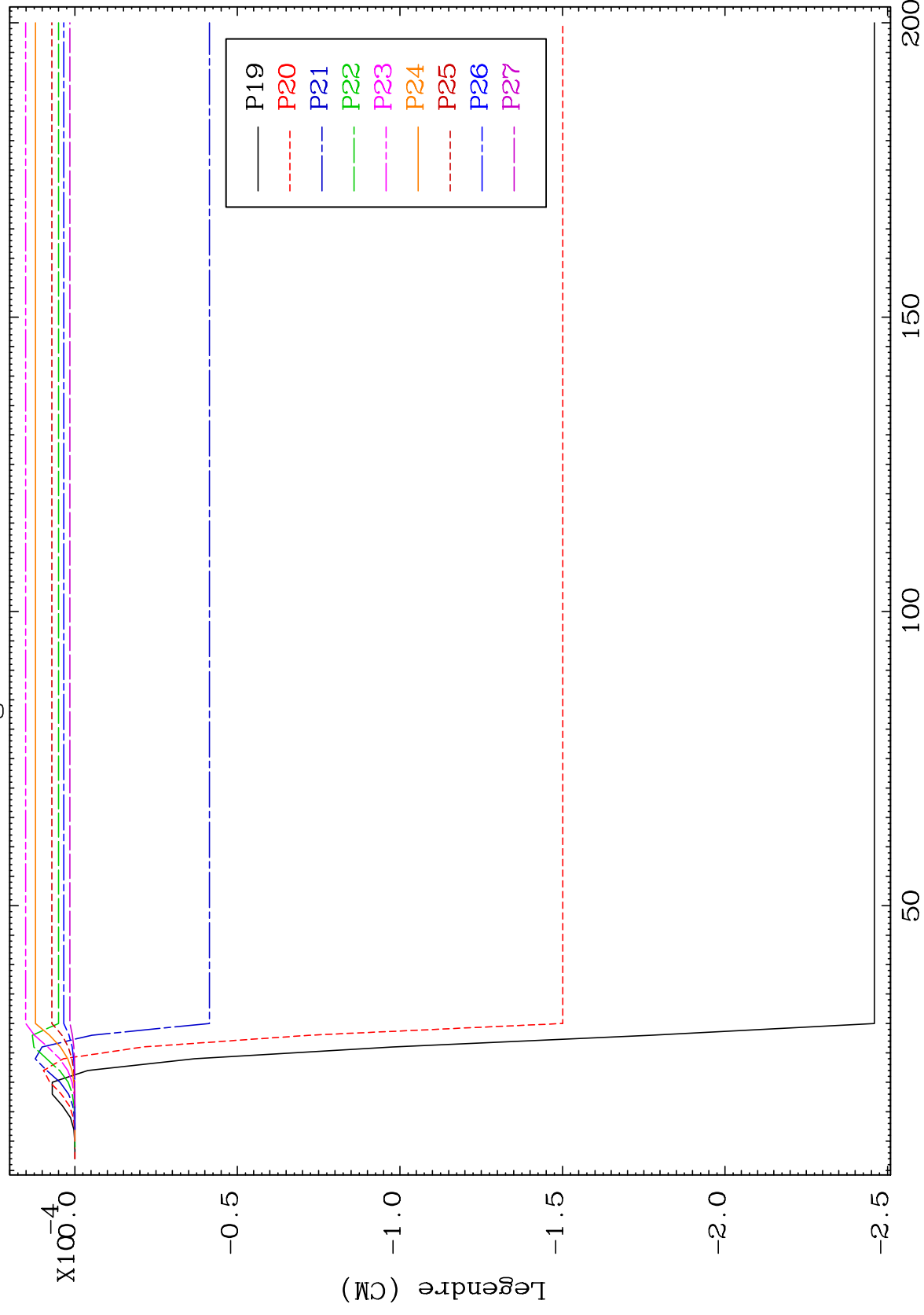
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25

Incident Energy (MeV)

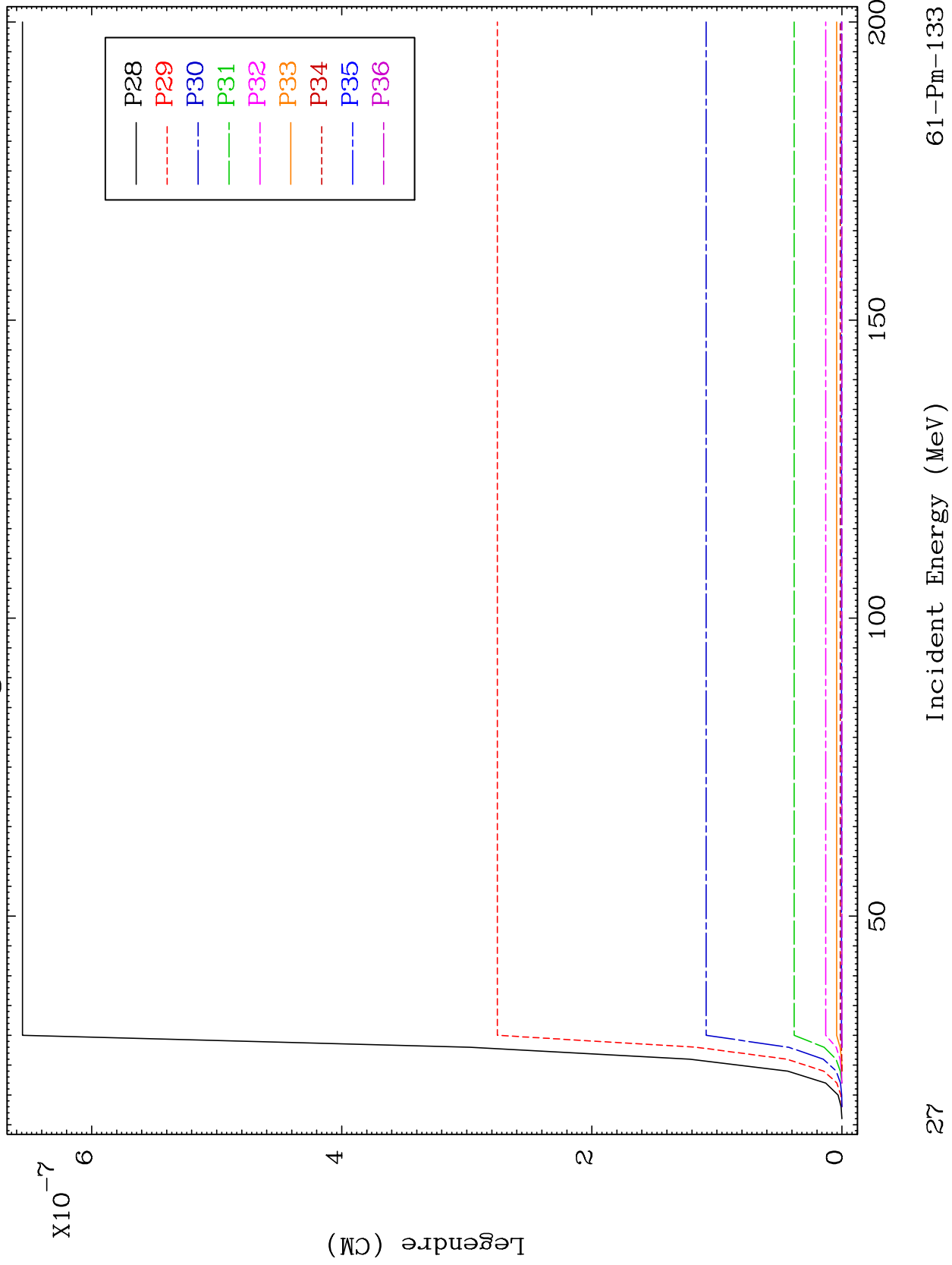
61-Pm-133



MAT 6107

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

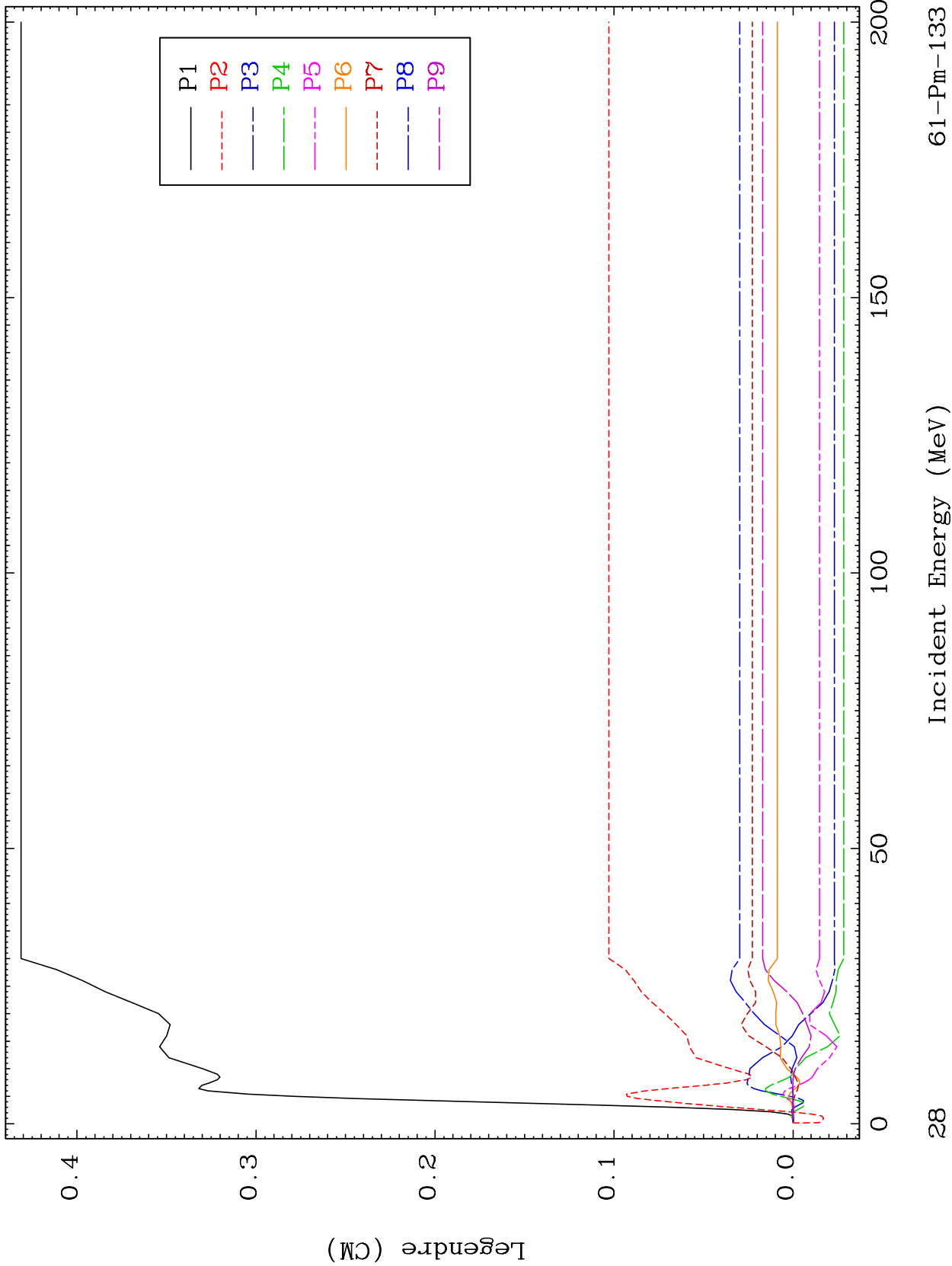
61-Pm-133



MAT 6107

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

61-Pm-133

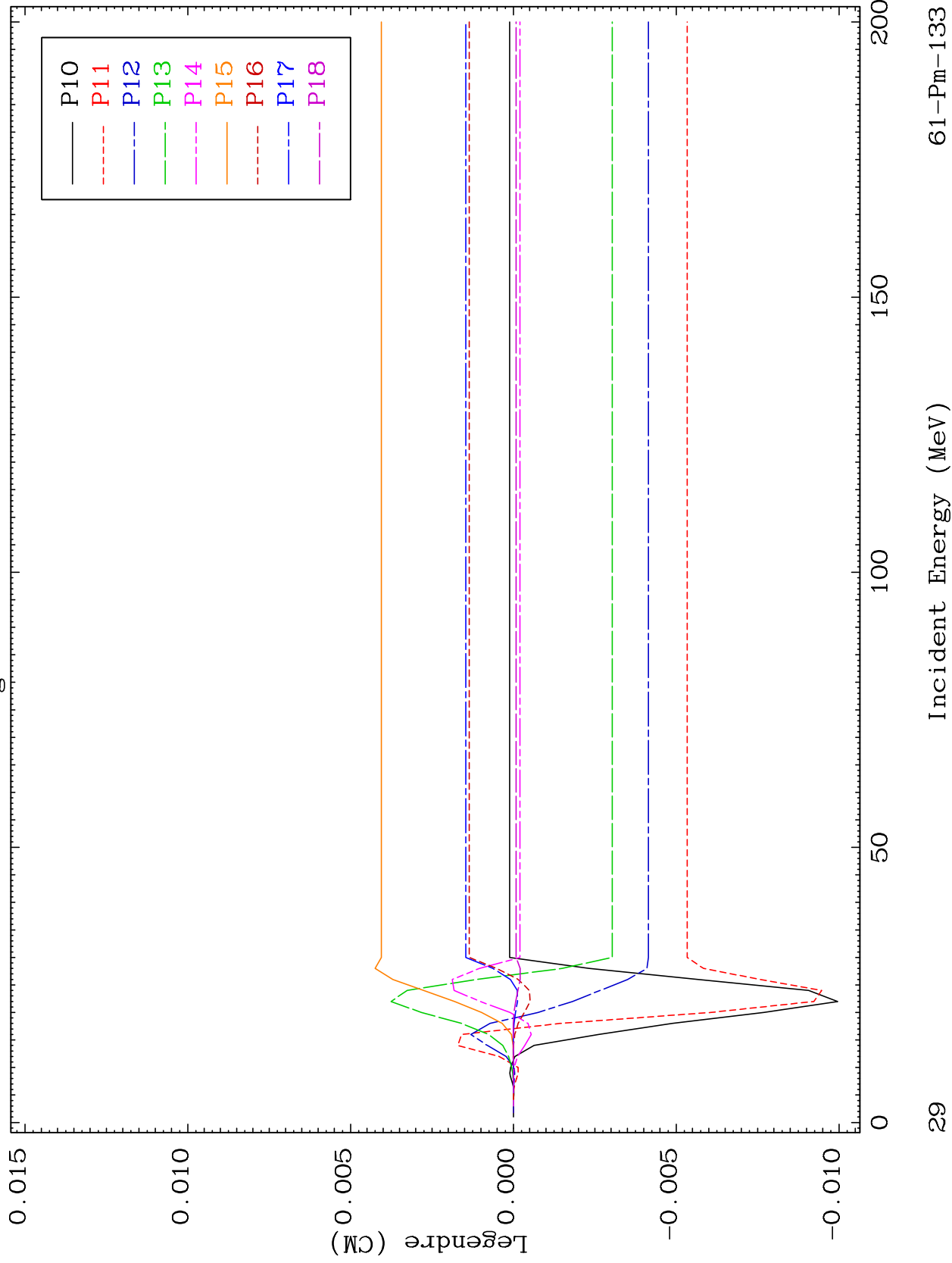


28

MAT 6107

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

61-Pm-133



29

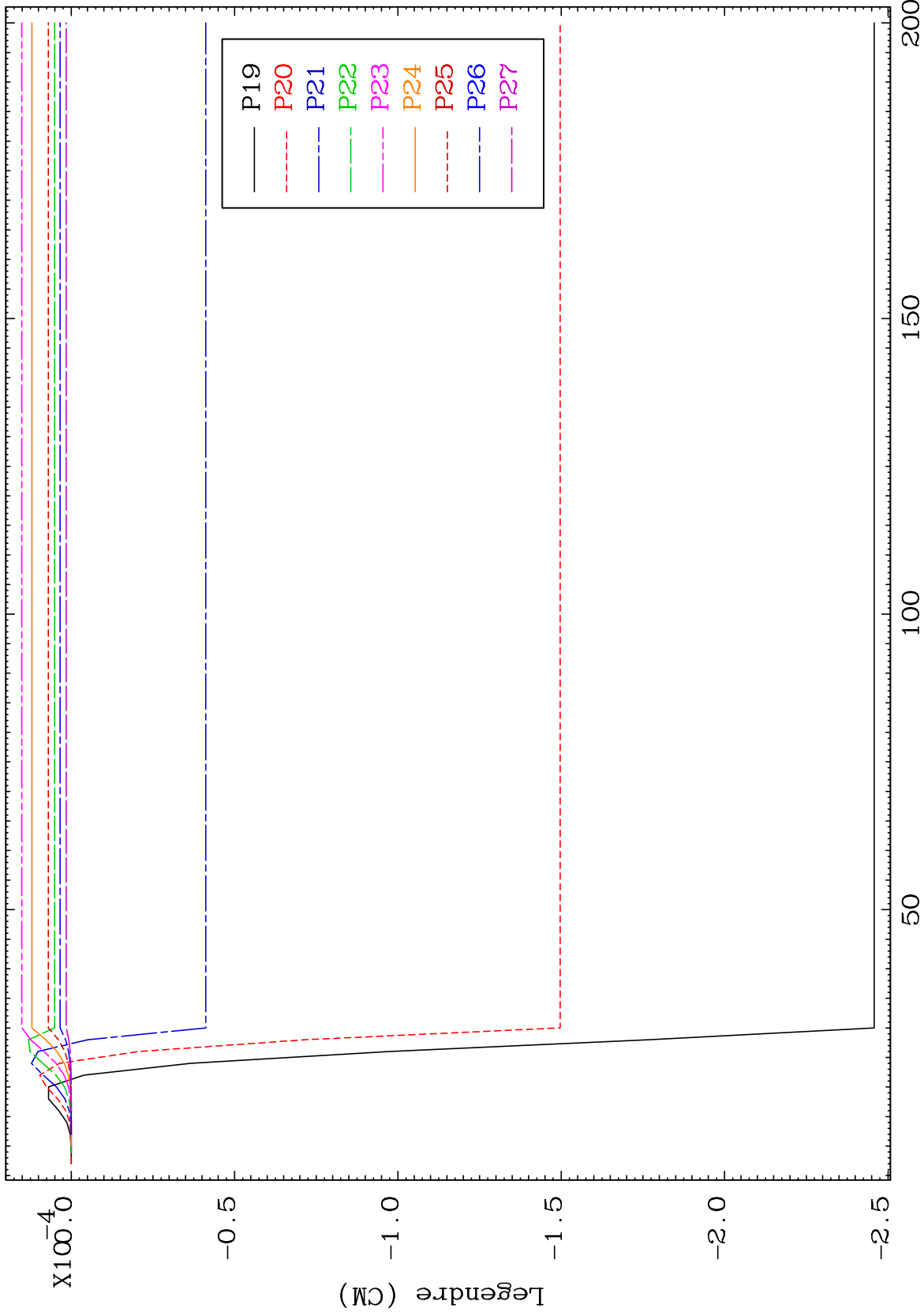
Incident Energy (MeV)

61-Pm-133

MAT 6107

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

61-Pm-133



30

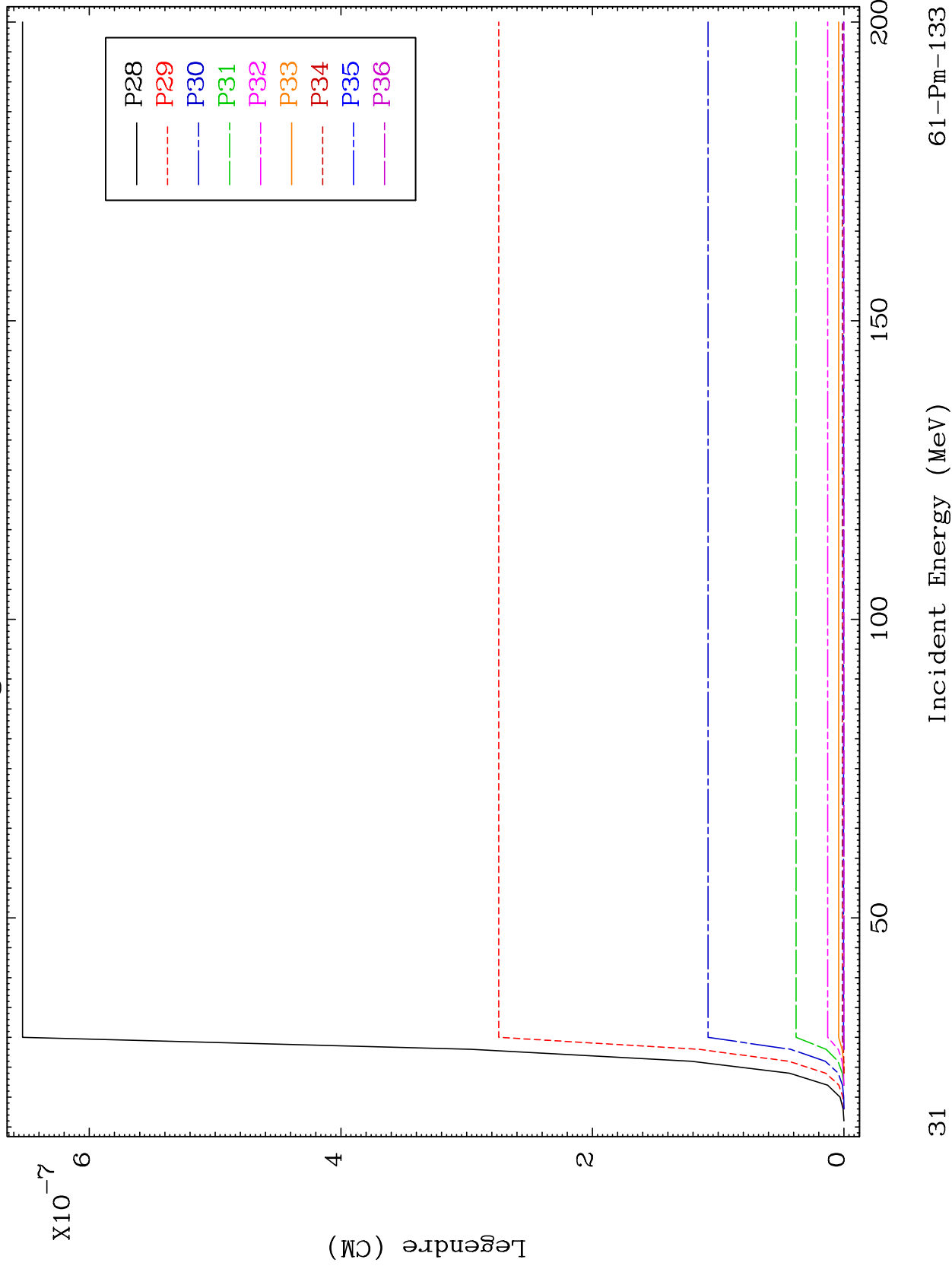
Incident Energy (MeV)

61-Pm-133

MAT 6107

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

61-Pm-133



31

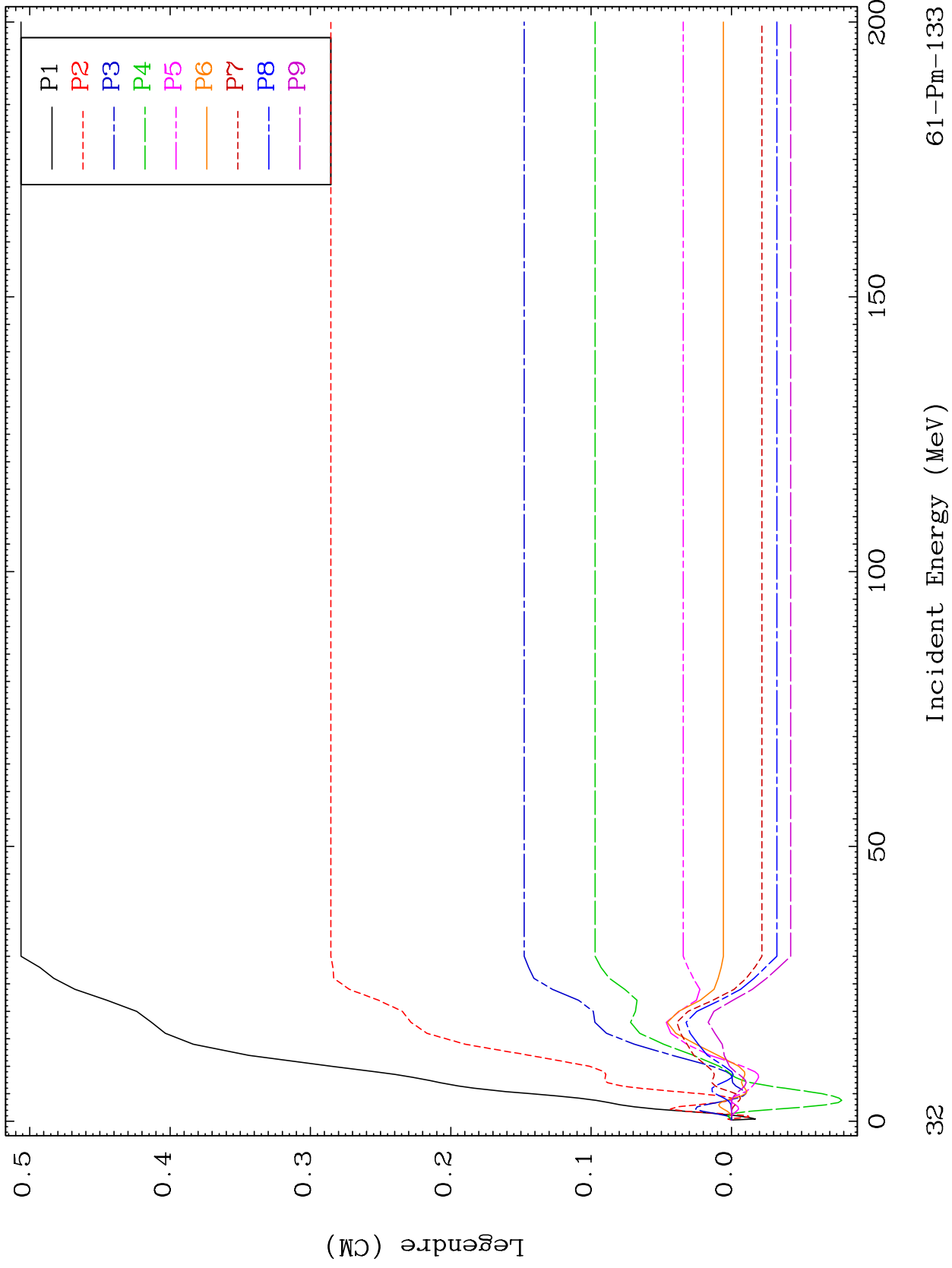
Incident Energy (MeV)

61-Pm-133

MAT 6107

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

61-Pm-133



61-Pm-133

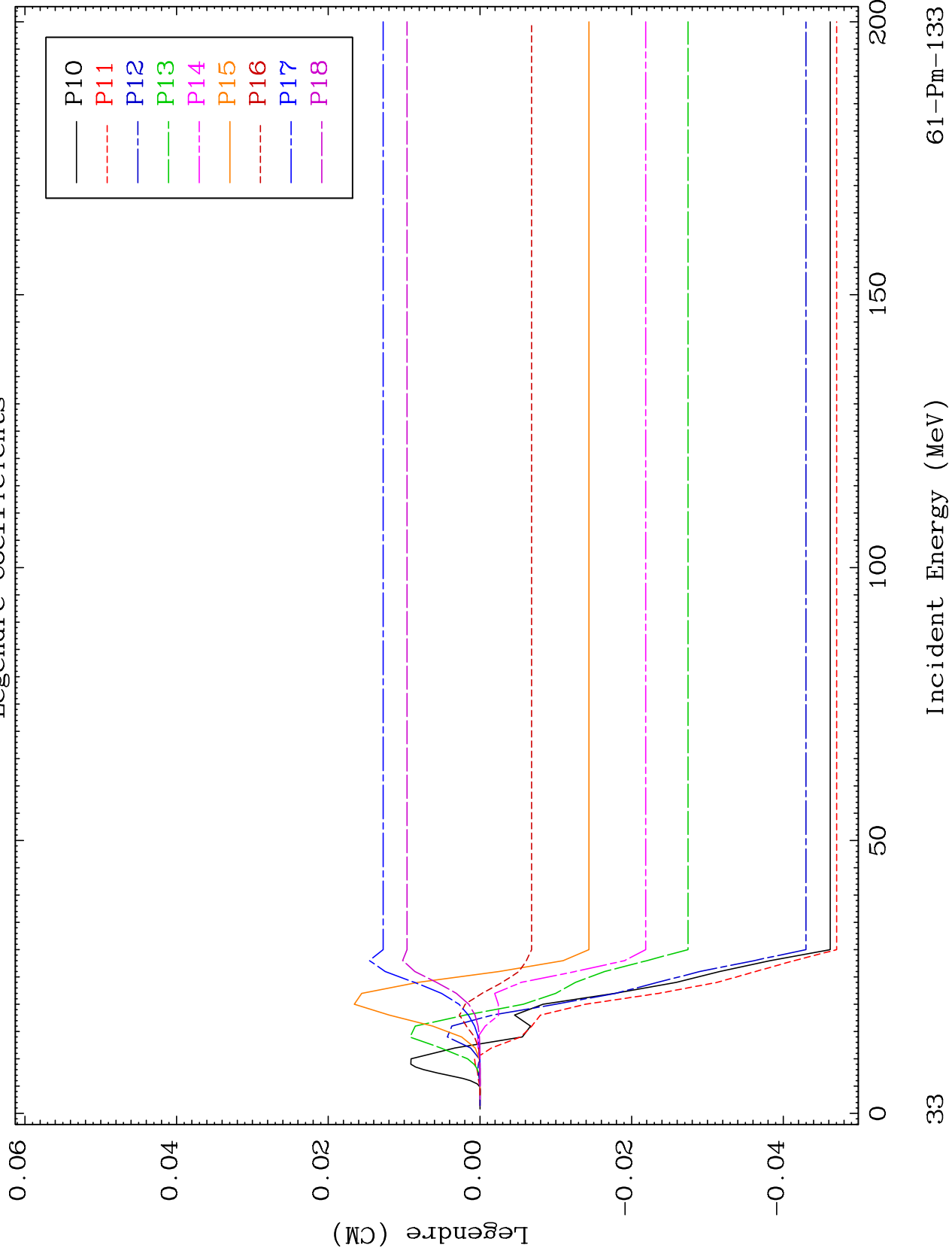
Incident Energy (MeV)

32

MAT 6107

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

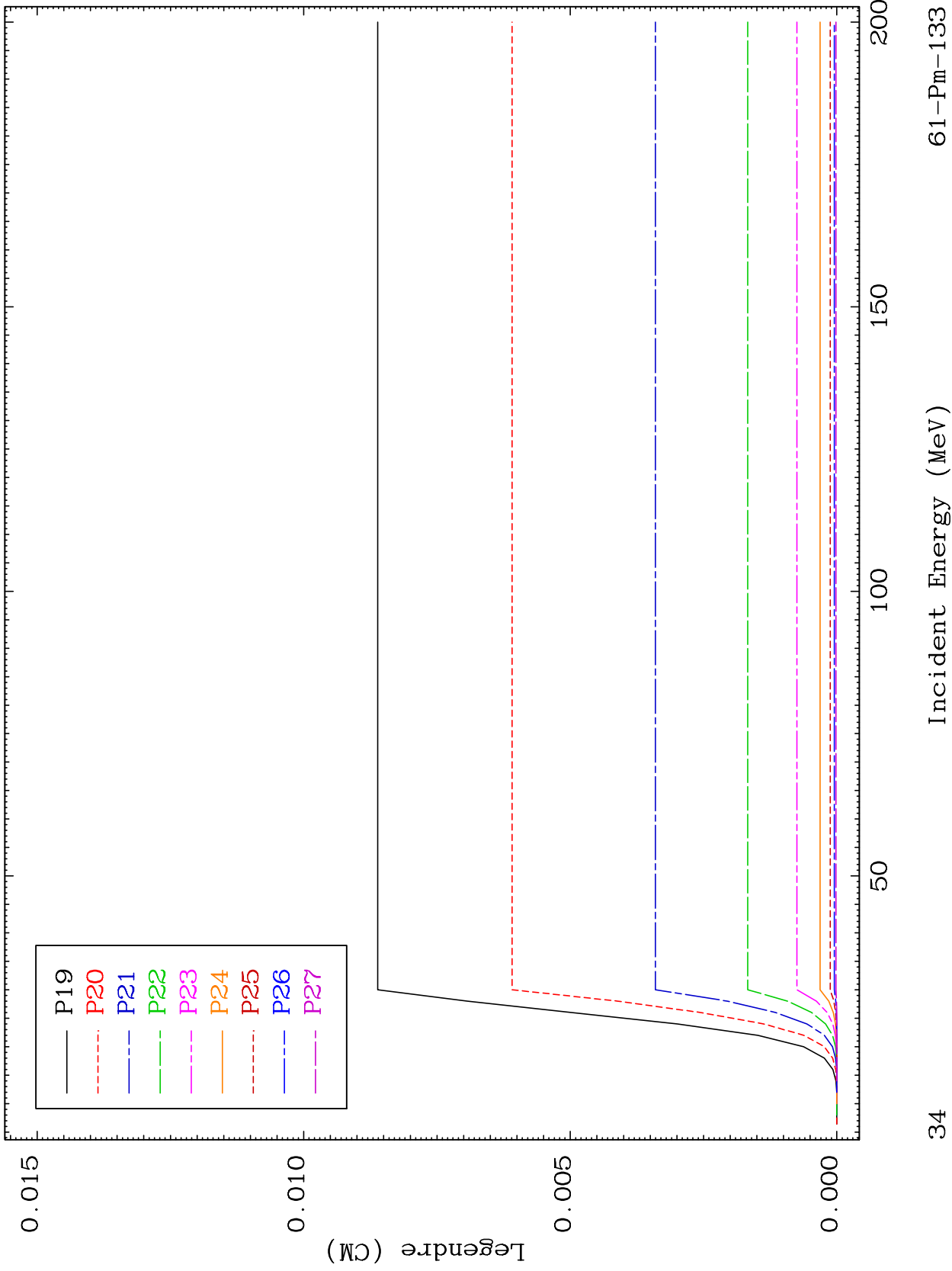
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33

Incident Energy (MeV)

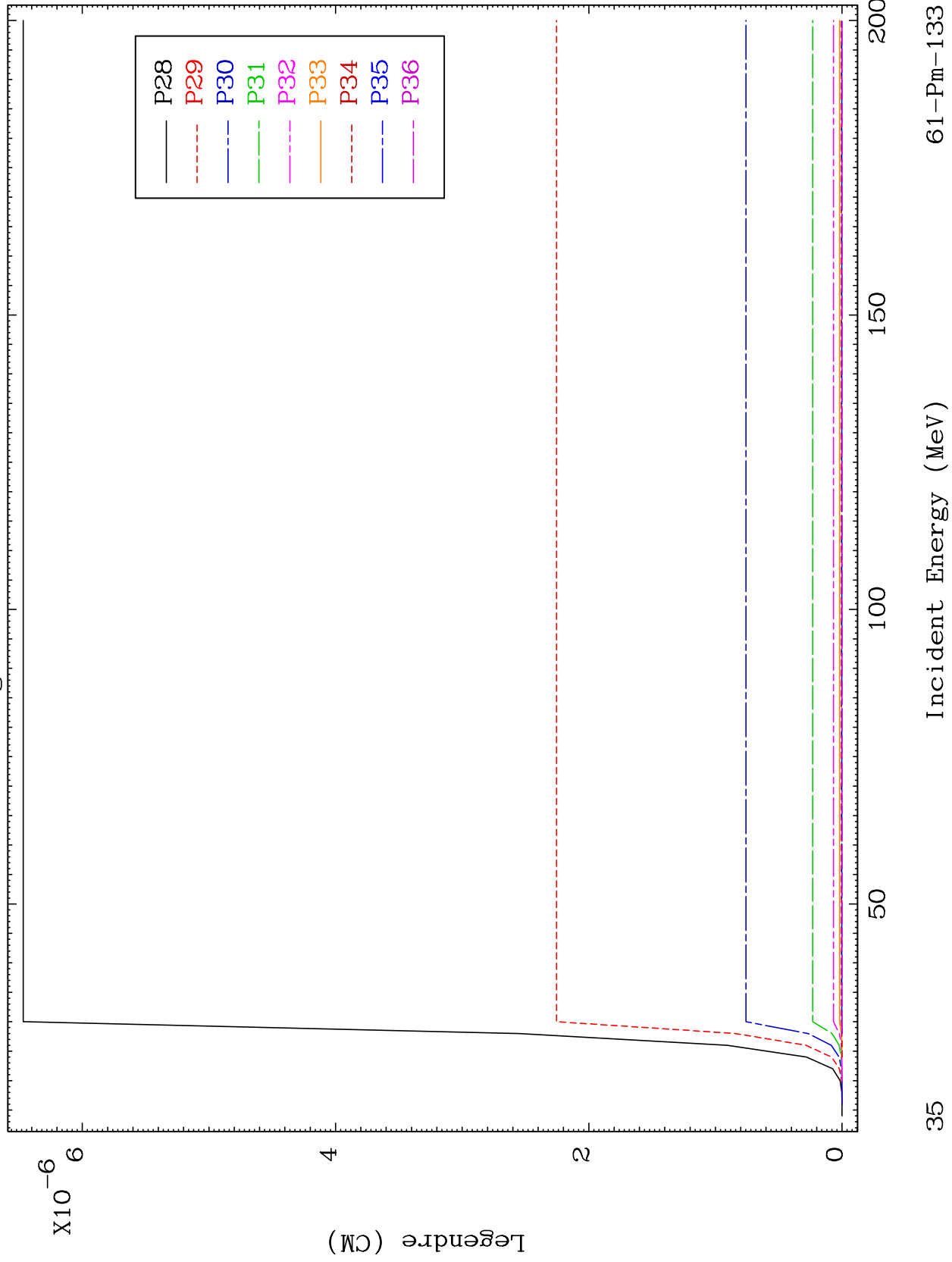
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MAT 6107

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

61-Pm-133



35

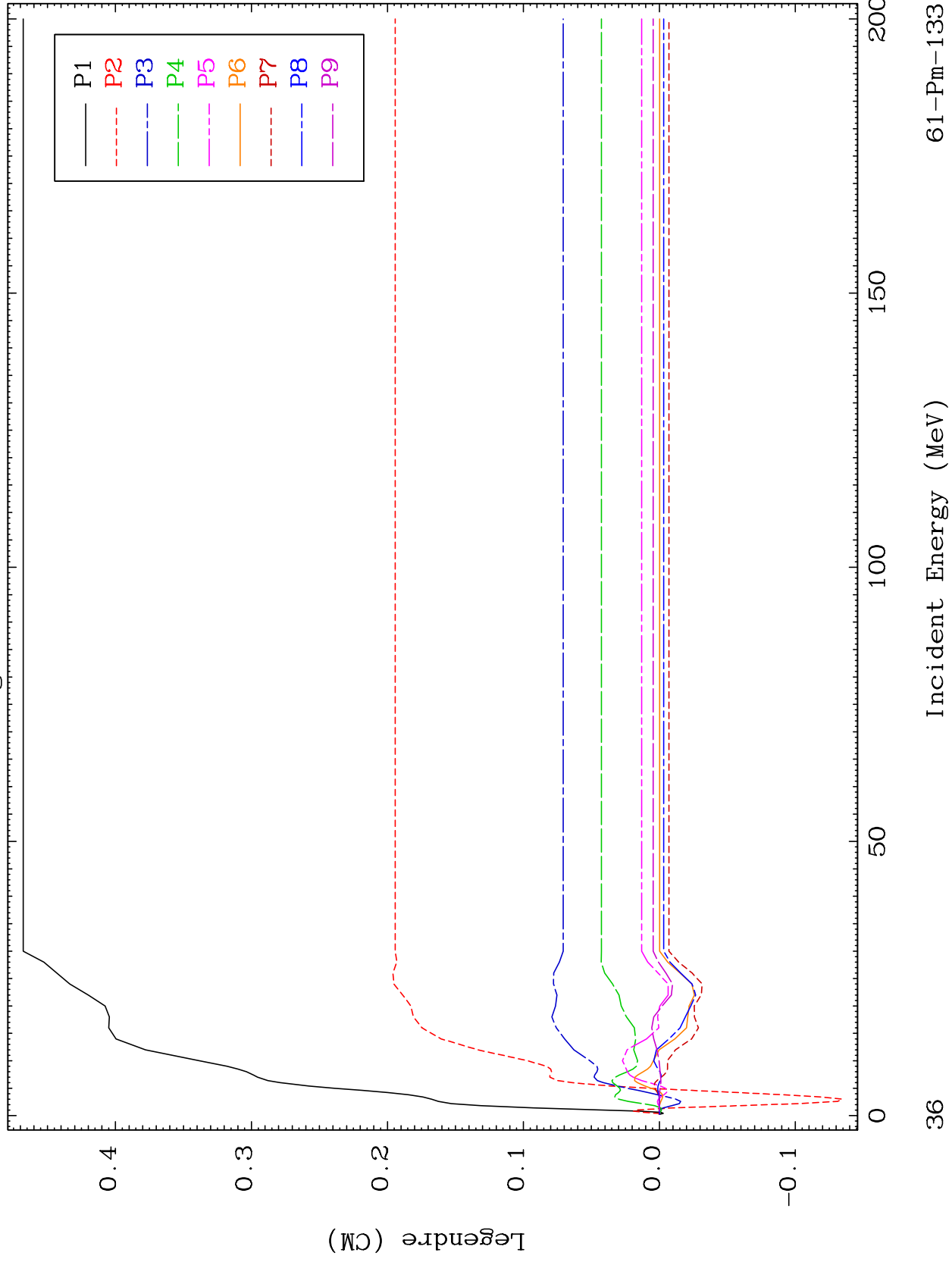
Incident Energy (MeV)

61-Pm-133

MAT 6107

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

61-Pm-133



61-Pm-133

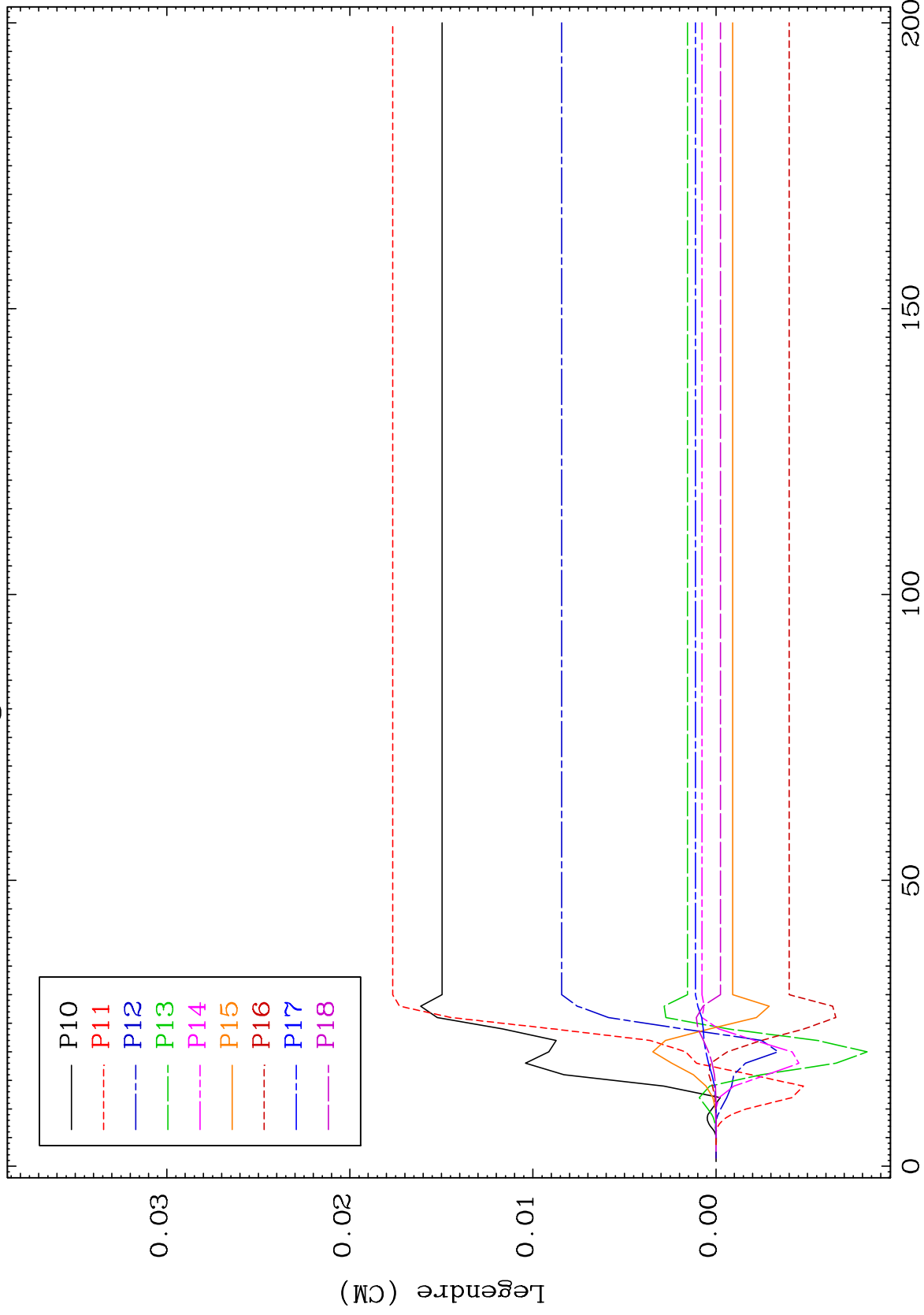
Incident Energy (MeV)

36

MAT 6107

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

61-Pm-133



37

Incident Energy (MeV)

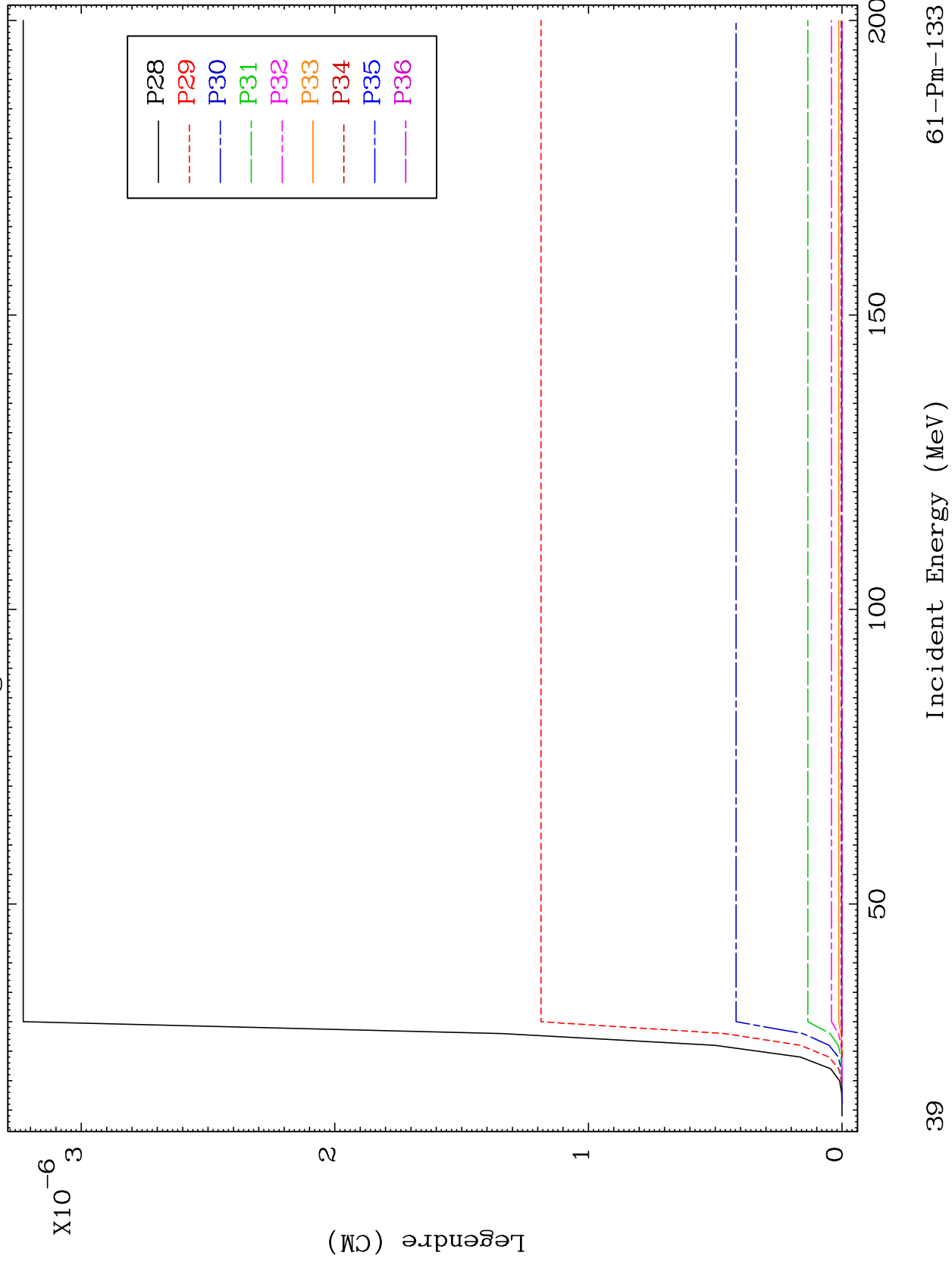
61-Pm-133



MAT 6107

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

61-Pm-133



39

Incident Energy (MeV)

61-Pm-133

200

150

100

50

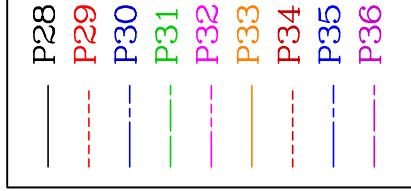
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3

2

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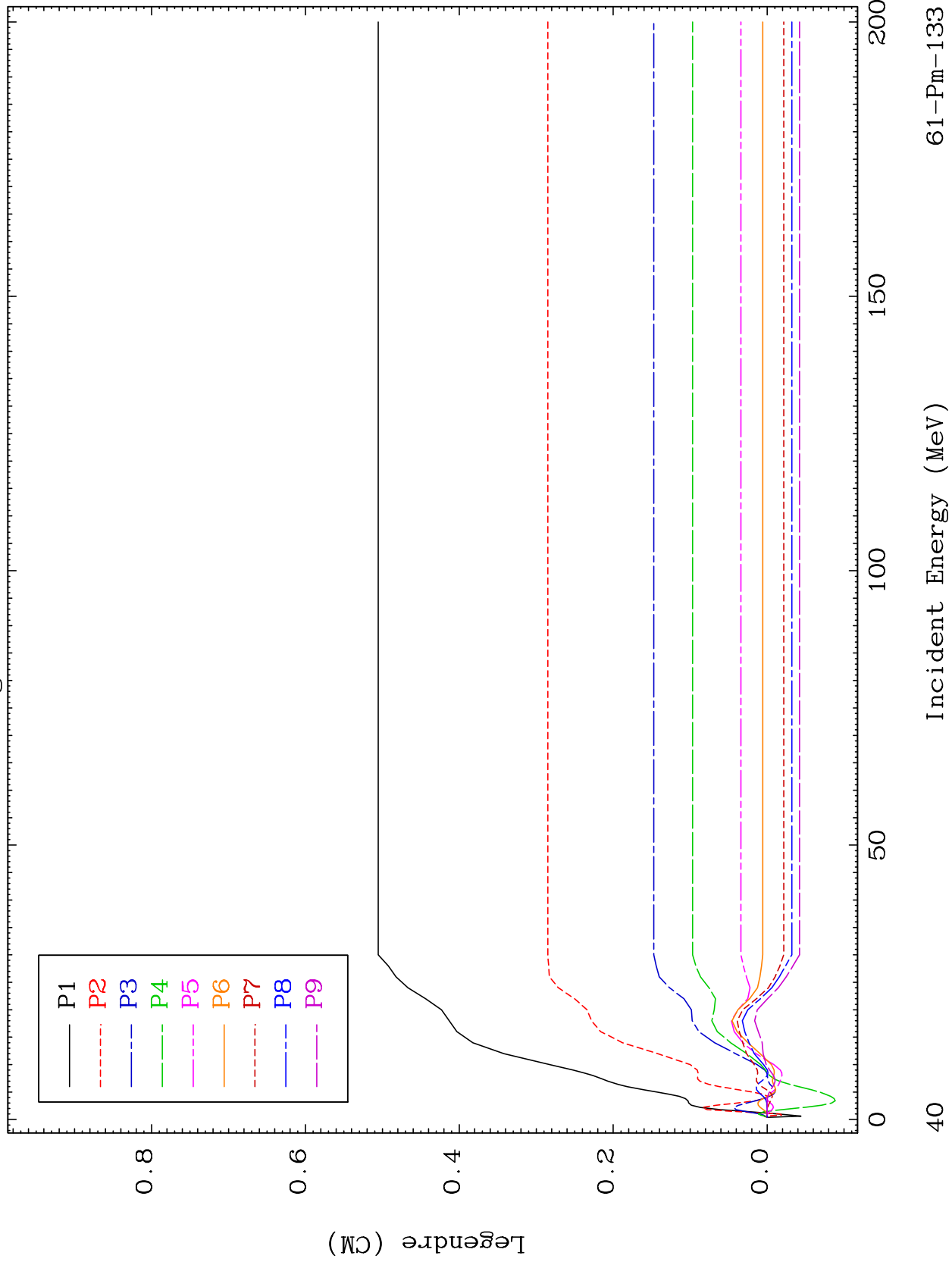
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MAT 6107

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

61-Pm-133



61-Pm-133

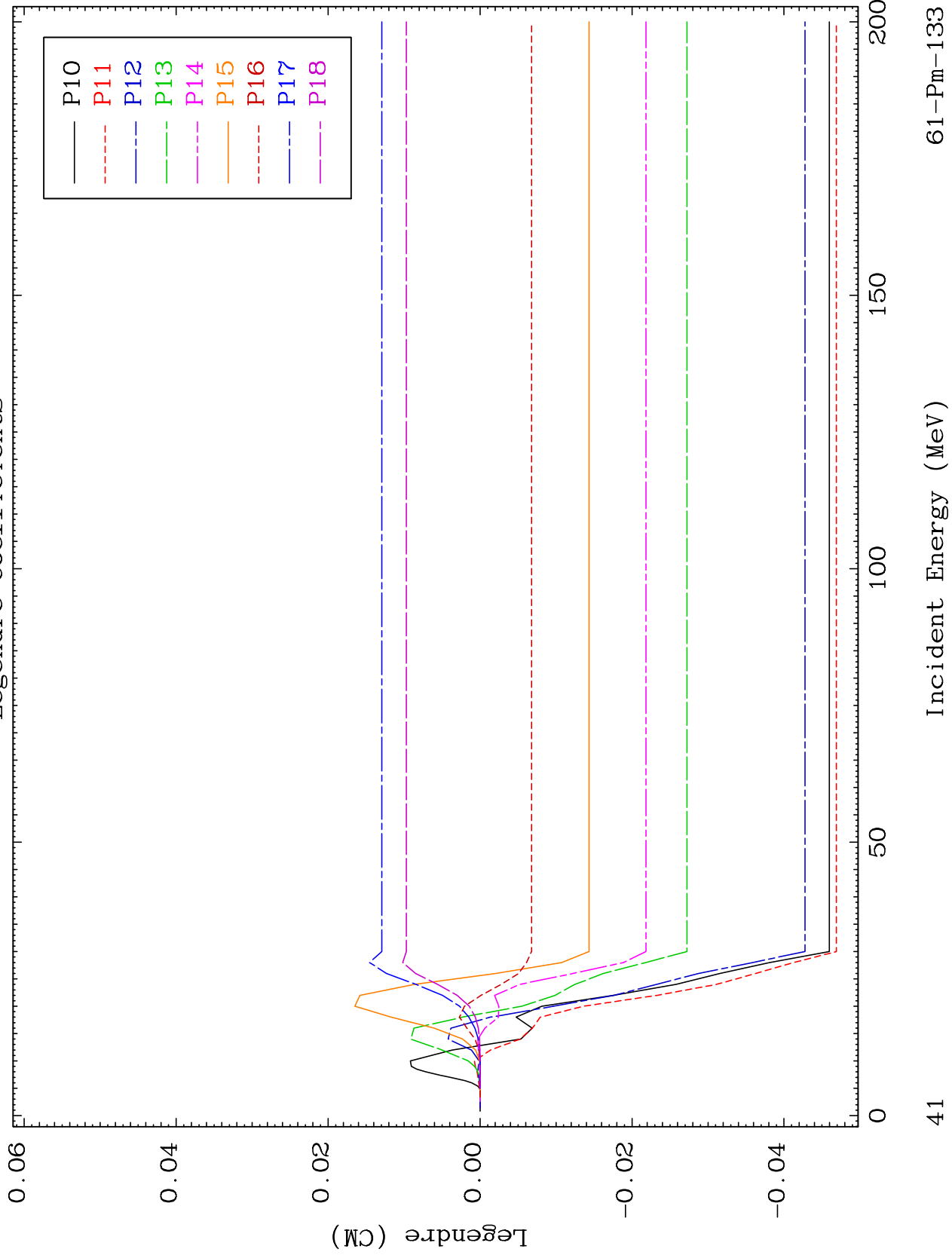
Incident Energy (MeV)

40

MAT 6107

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

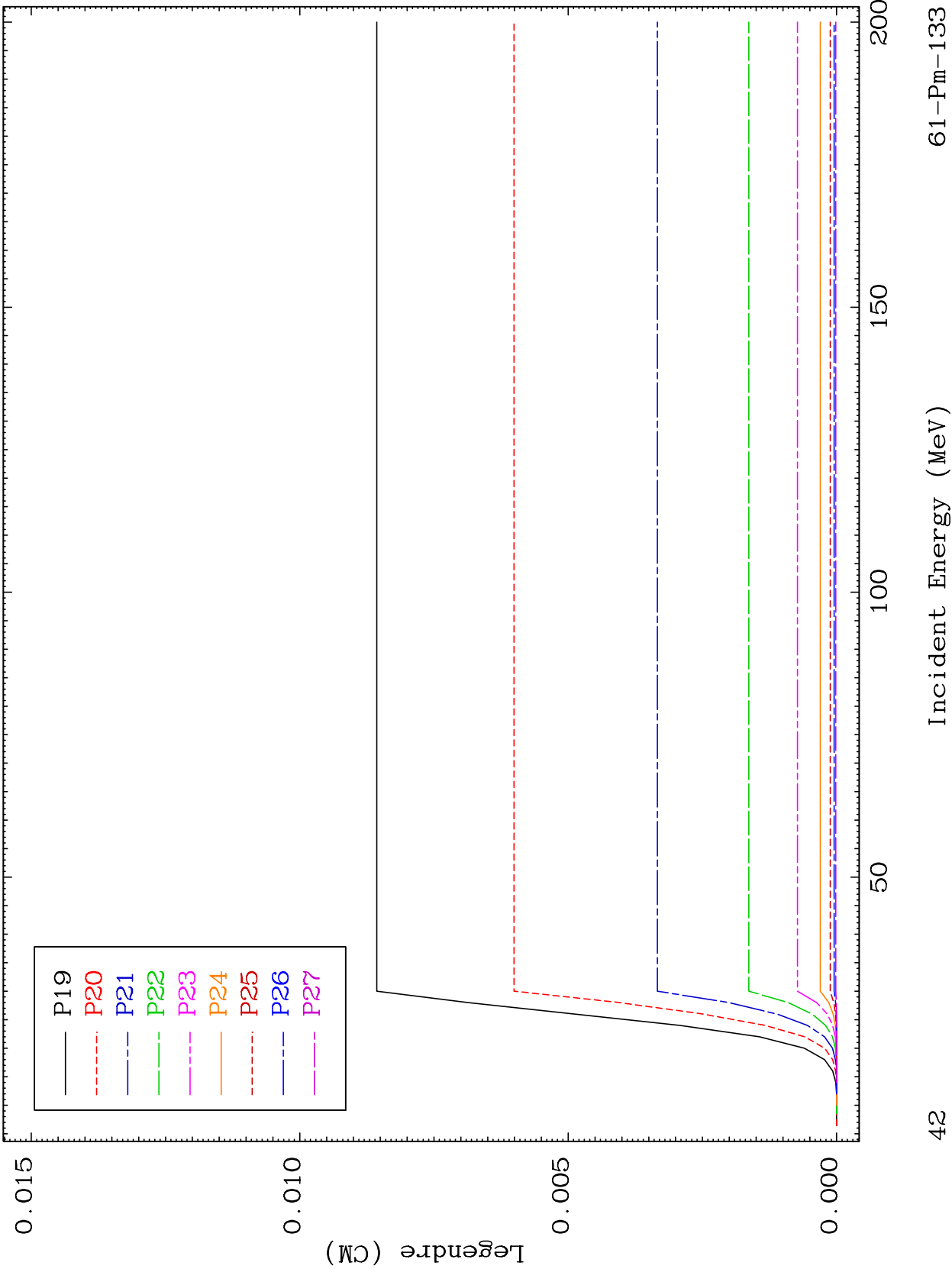
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41

Incident Energy (MeV)

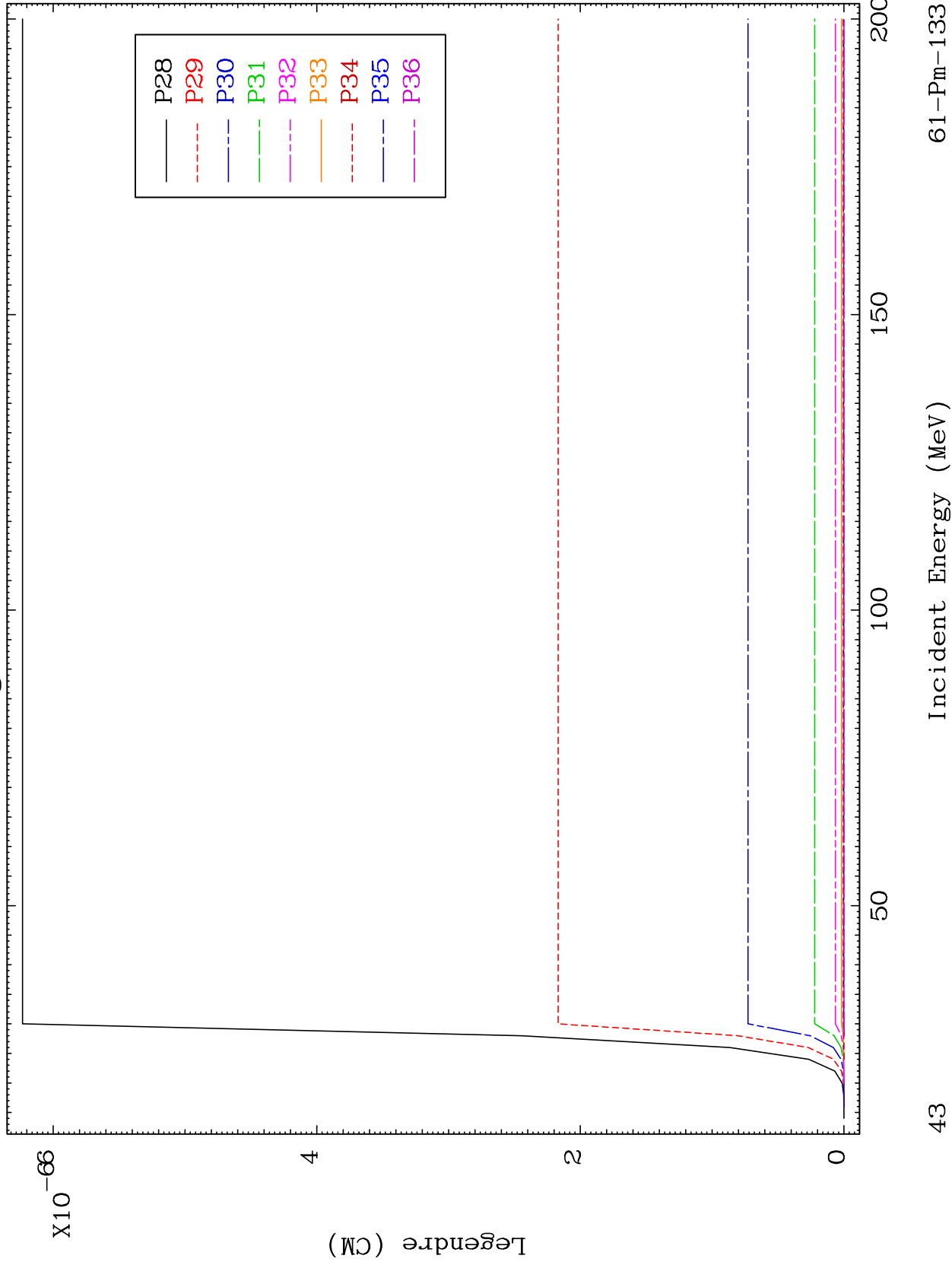
61-Pm-133



MAT 6107

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

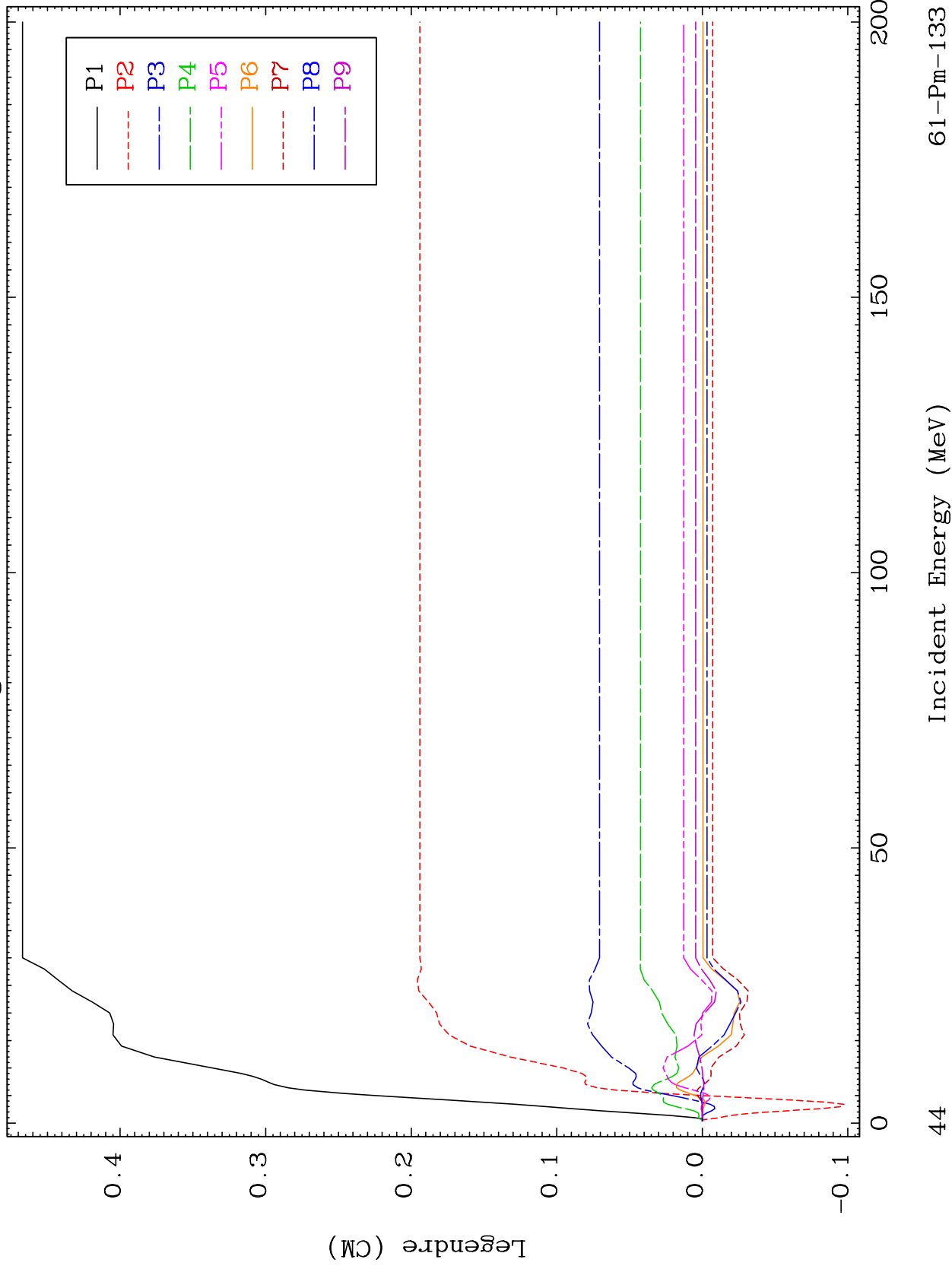
61-Pm-133



MAT 6107

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

61-Pm-133



61-Pm-133

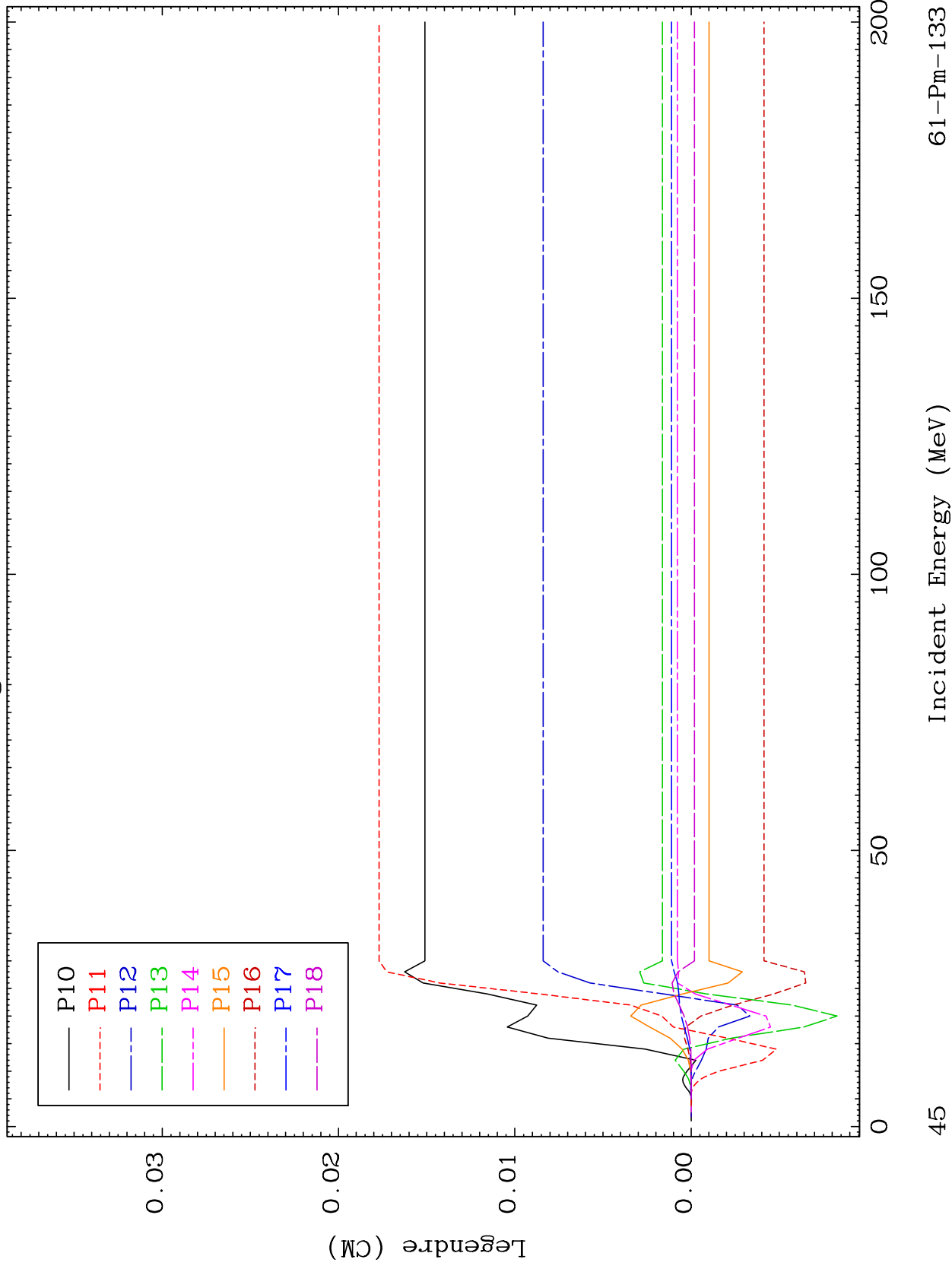
Incident Energy (MeV)

44

MAT 6107

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

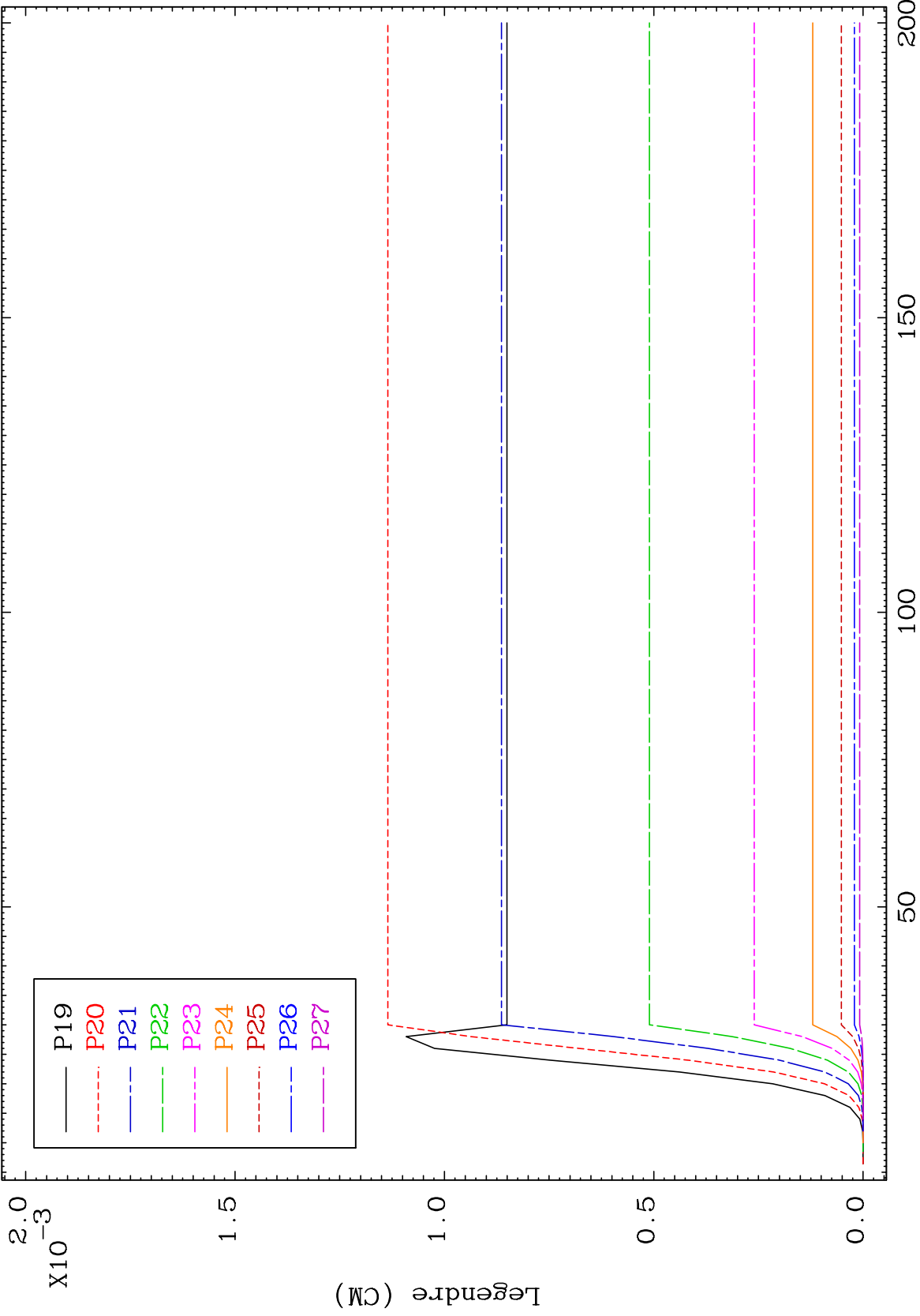
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61-Pm-133

Incident Energy (MeV)

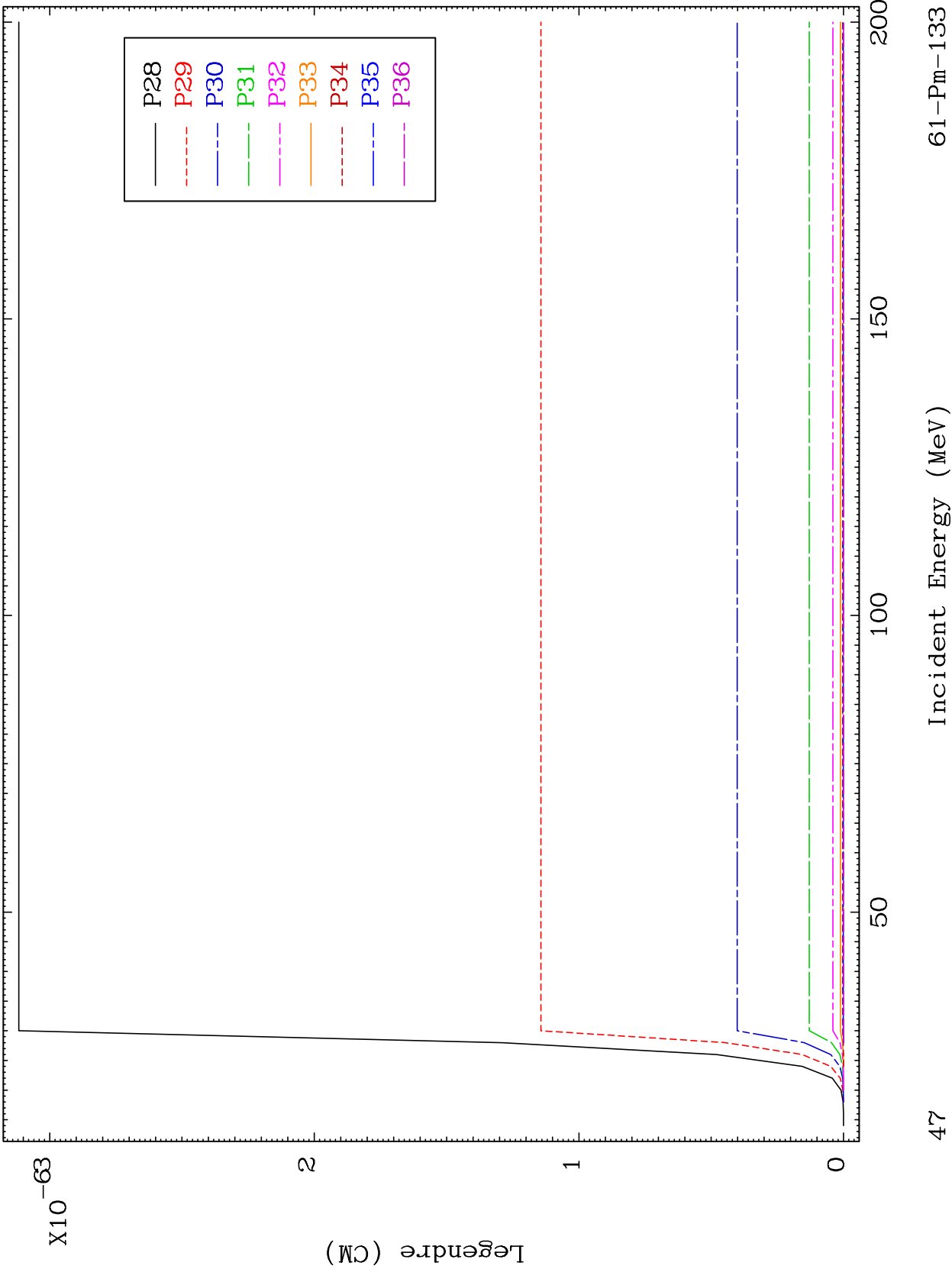
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MAT 6107

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

61-Pm-133



47

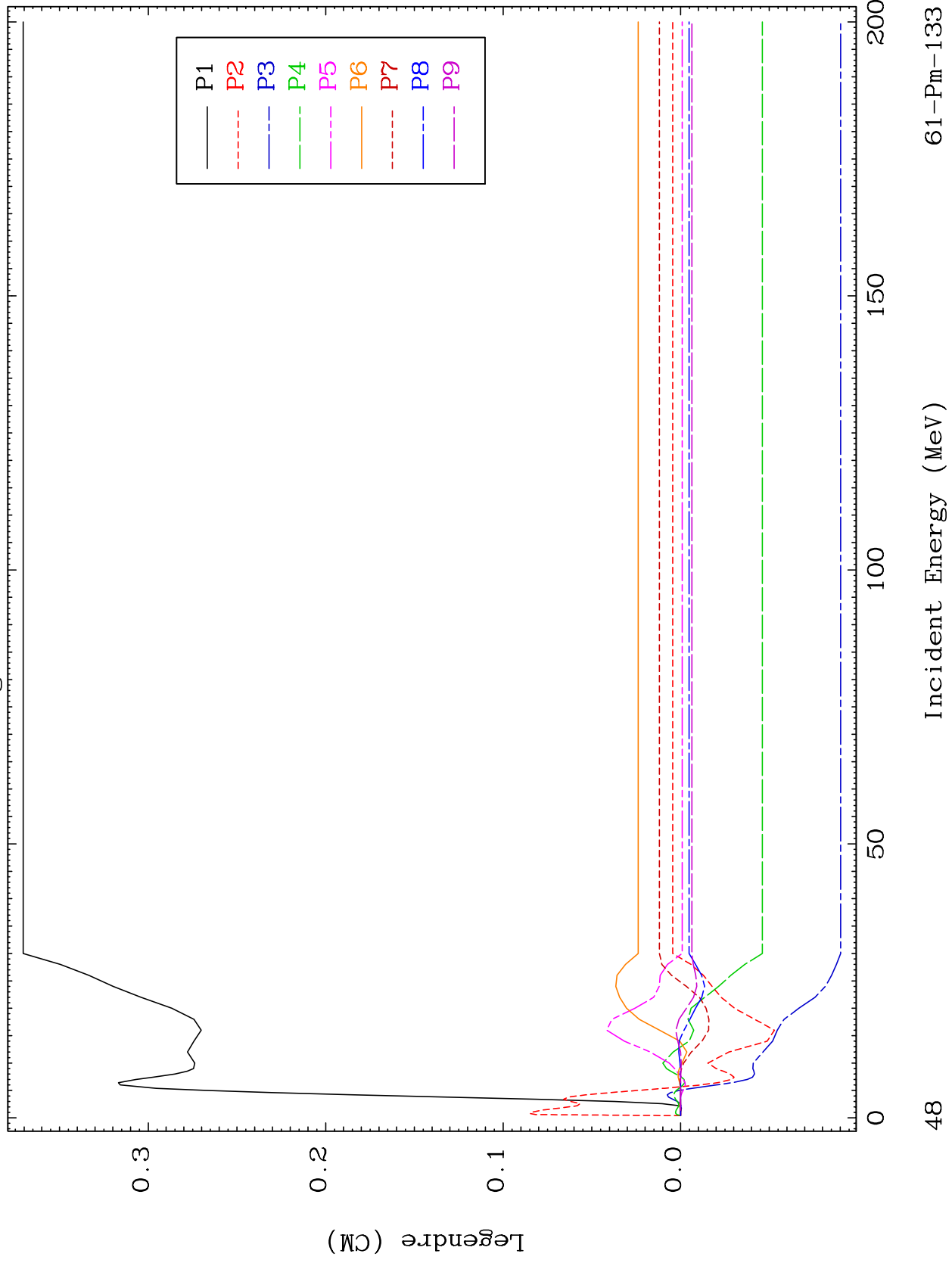
Incident Energy (MeV)

61-Pm-133

MAT 6107

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

61-Pm-133



61-Pm-133

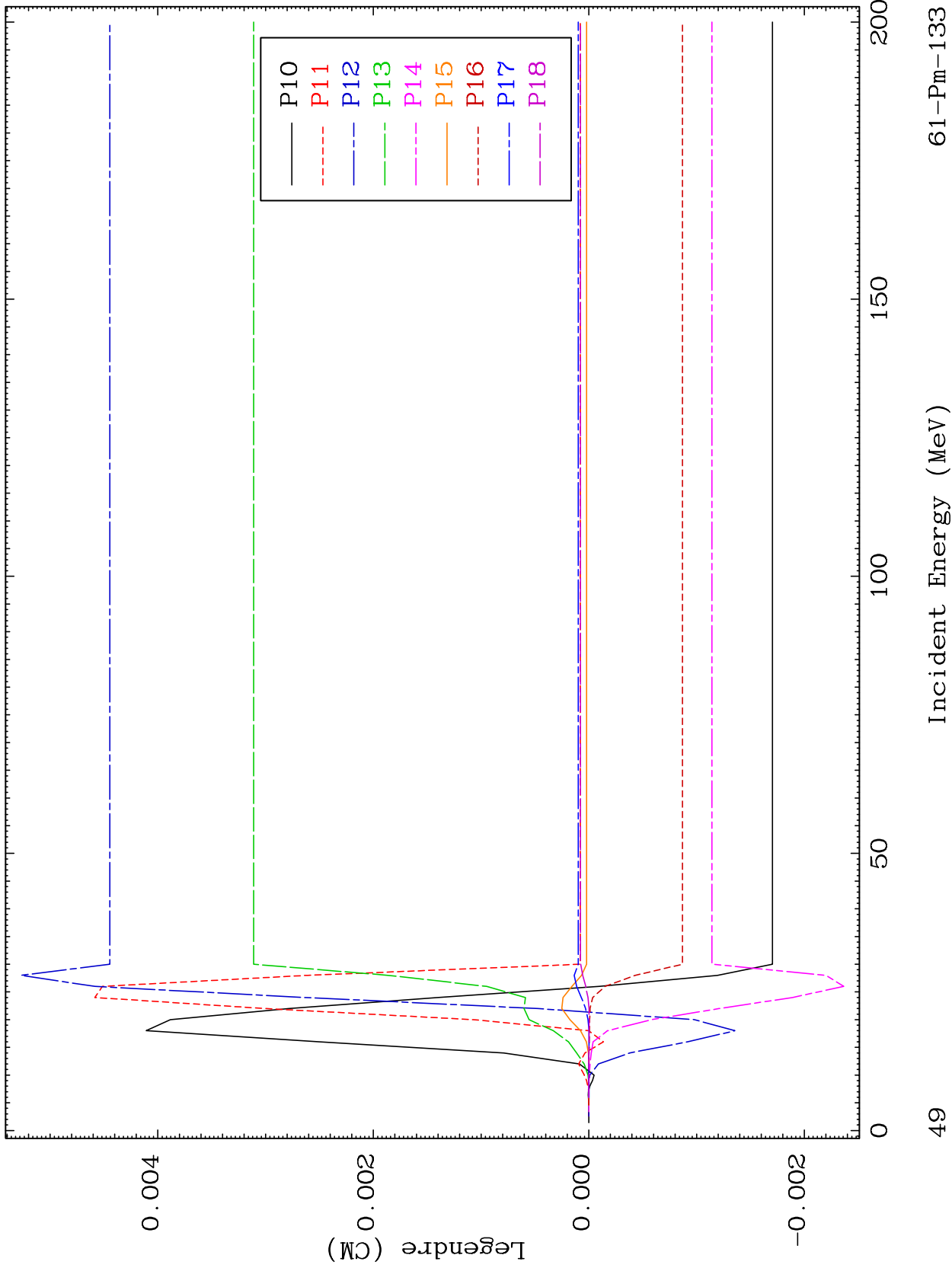
Incident Energy (MeV)

48

MAT 6107

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

61-Pm-133



61-Pm-133

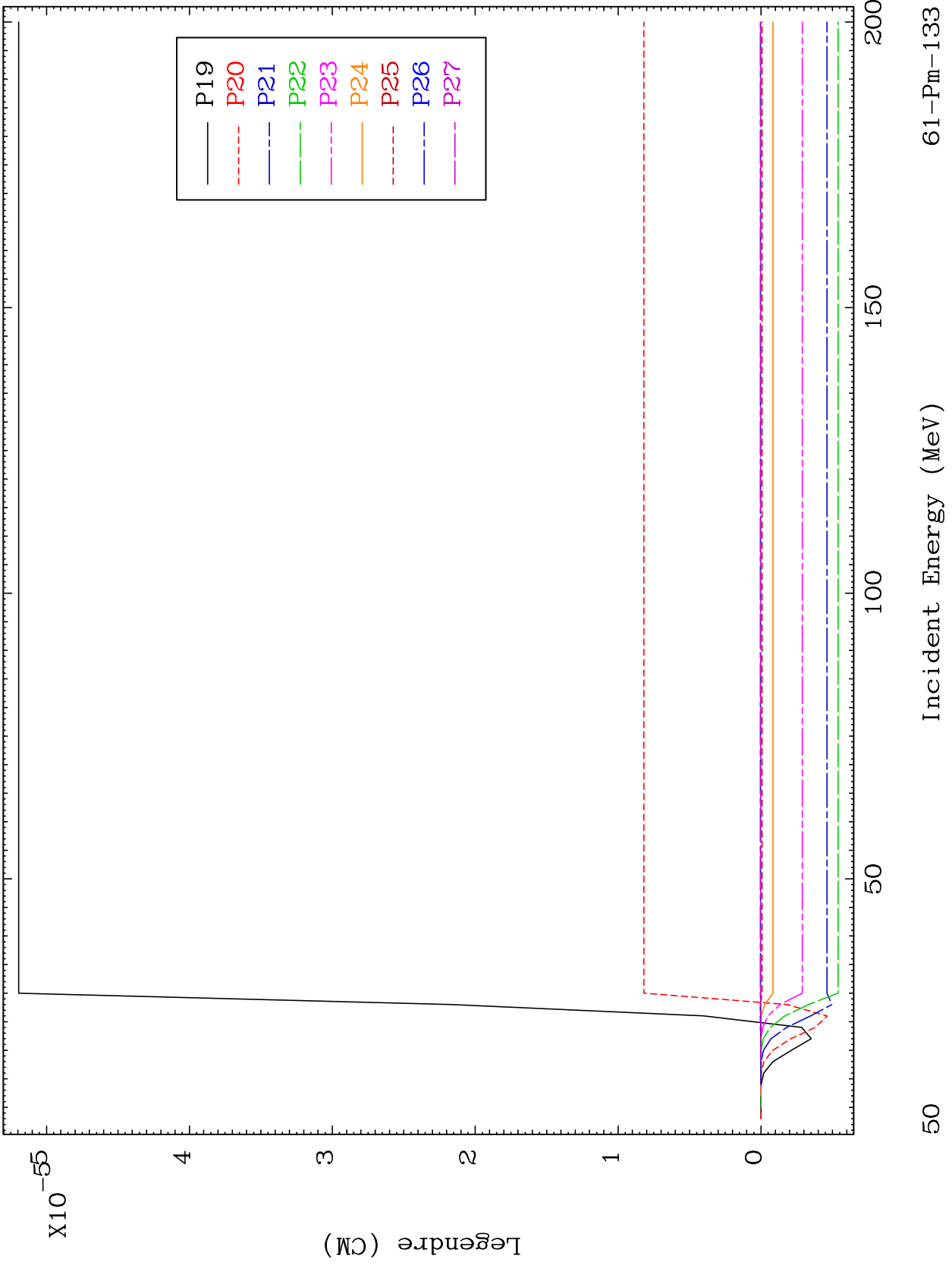
Incident Energy (MeV)

49

MAT 6107

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

61-Pm-133



61-Pm-133

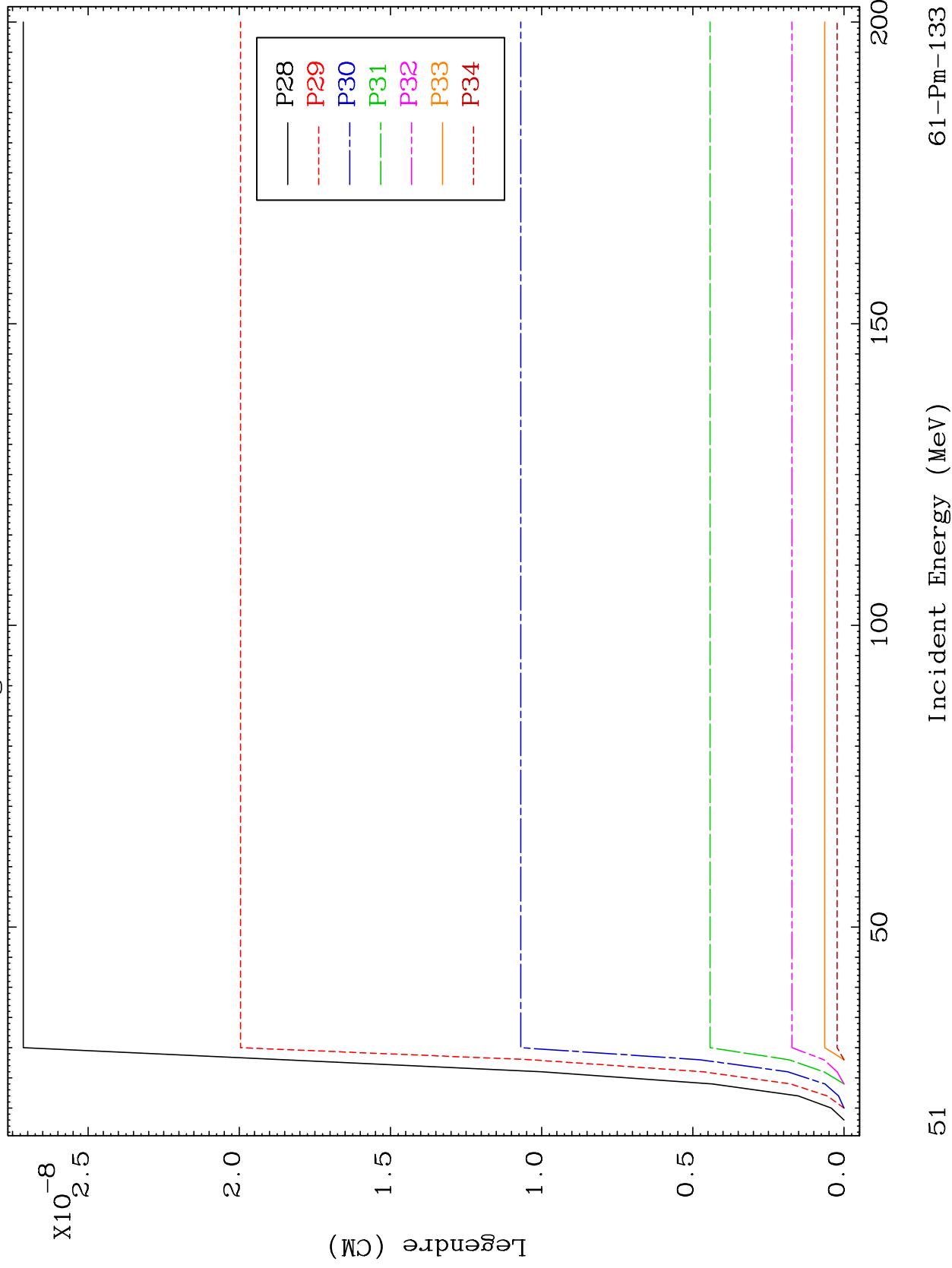
Incident Energy (MeV)

50

MAT 6107

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

61-Pm-133



61-Pm-133

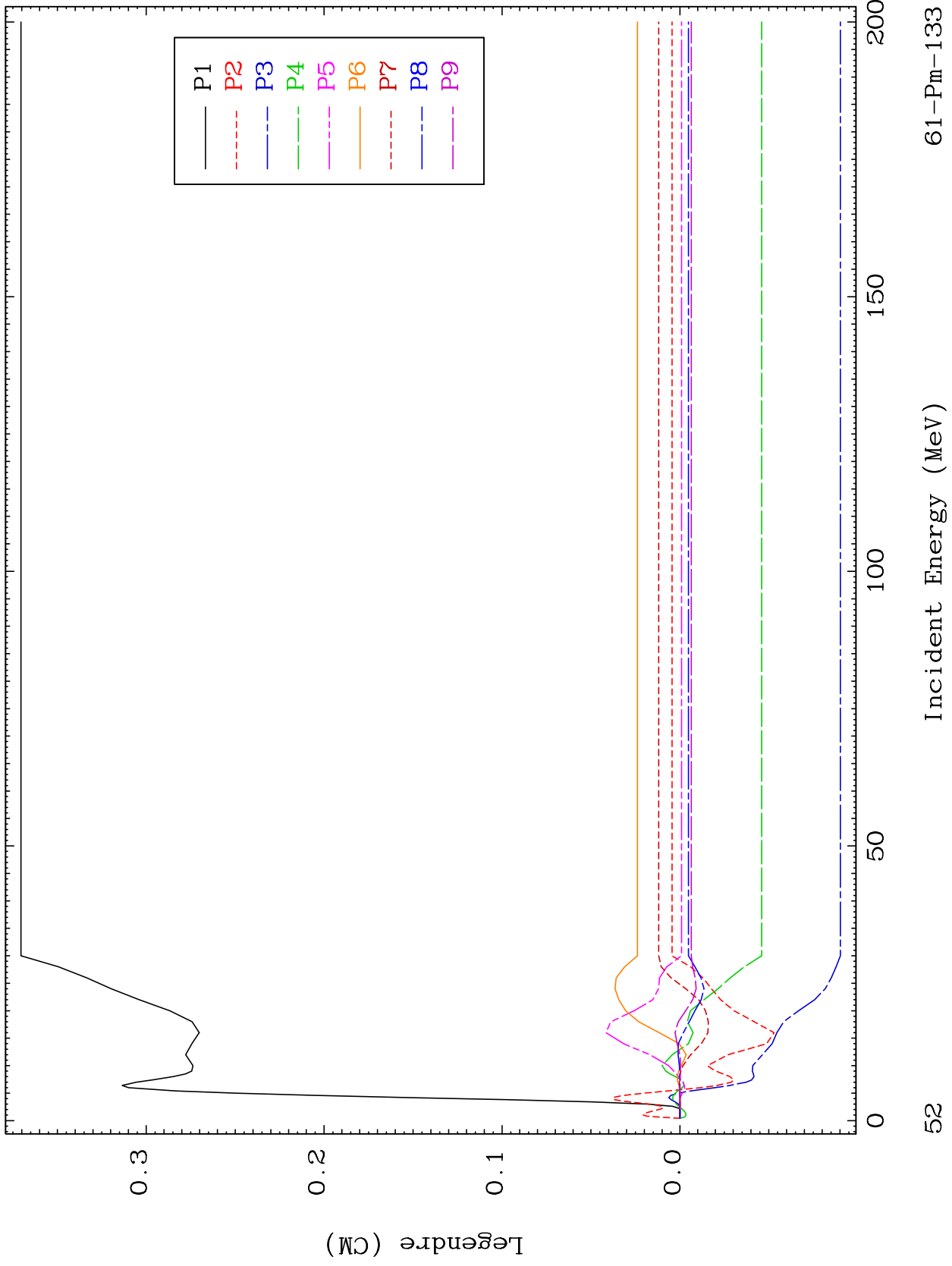
Incident Energy (MeV)

51

MAT 6107

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

61-Pm-133



61-Pm-133

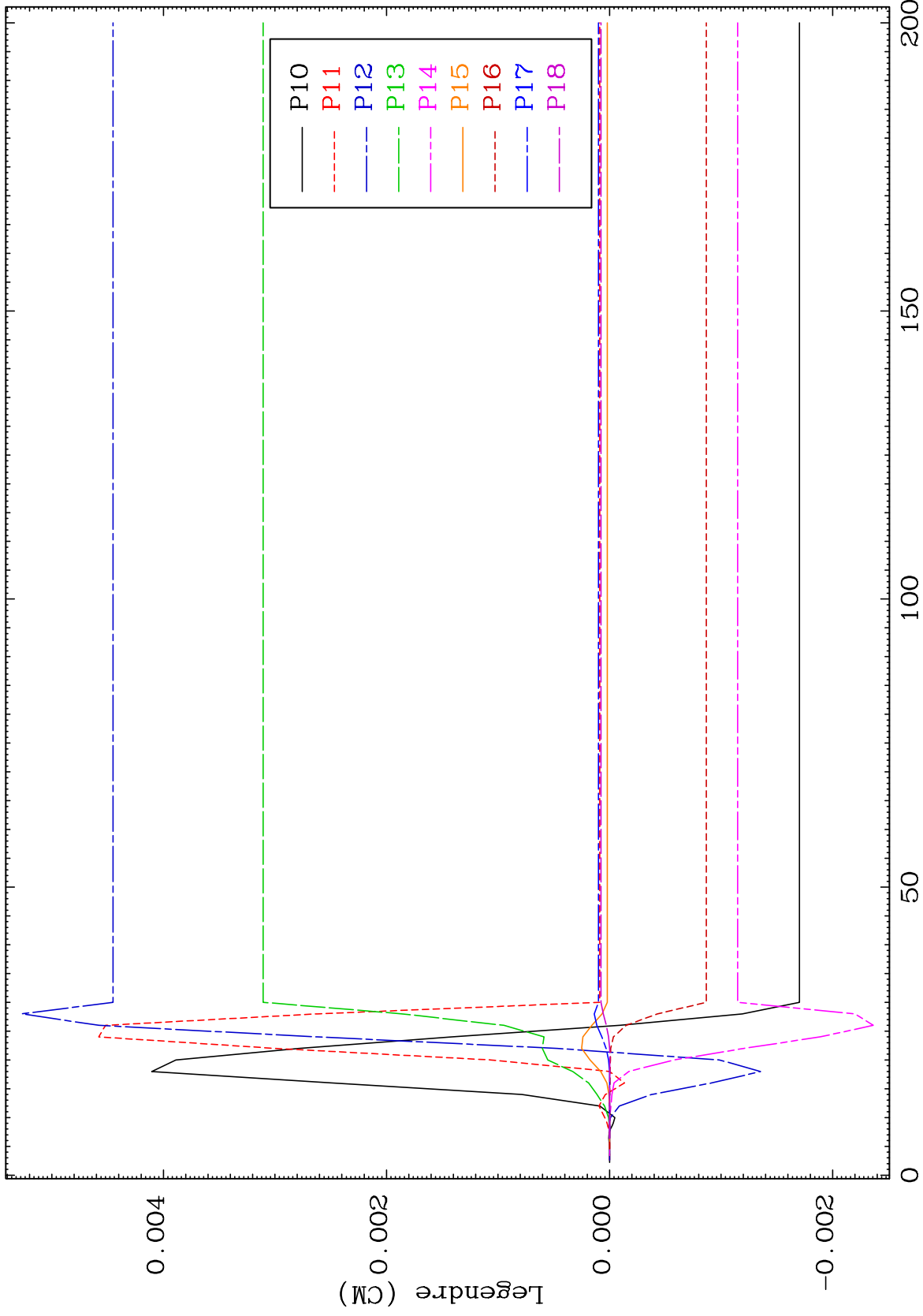
Incident Energy (MeV)

52

MAT 6107

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

61-Pm-133



53

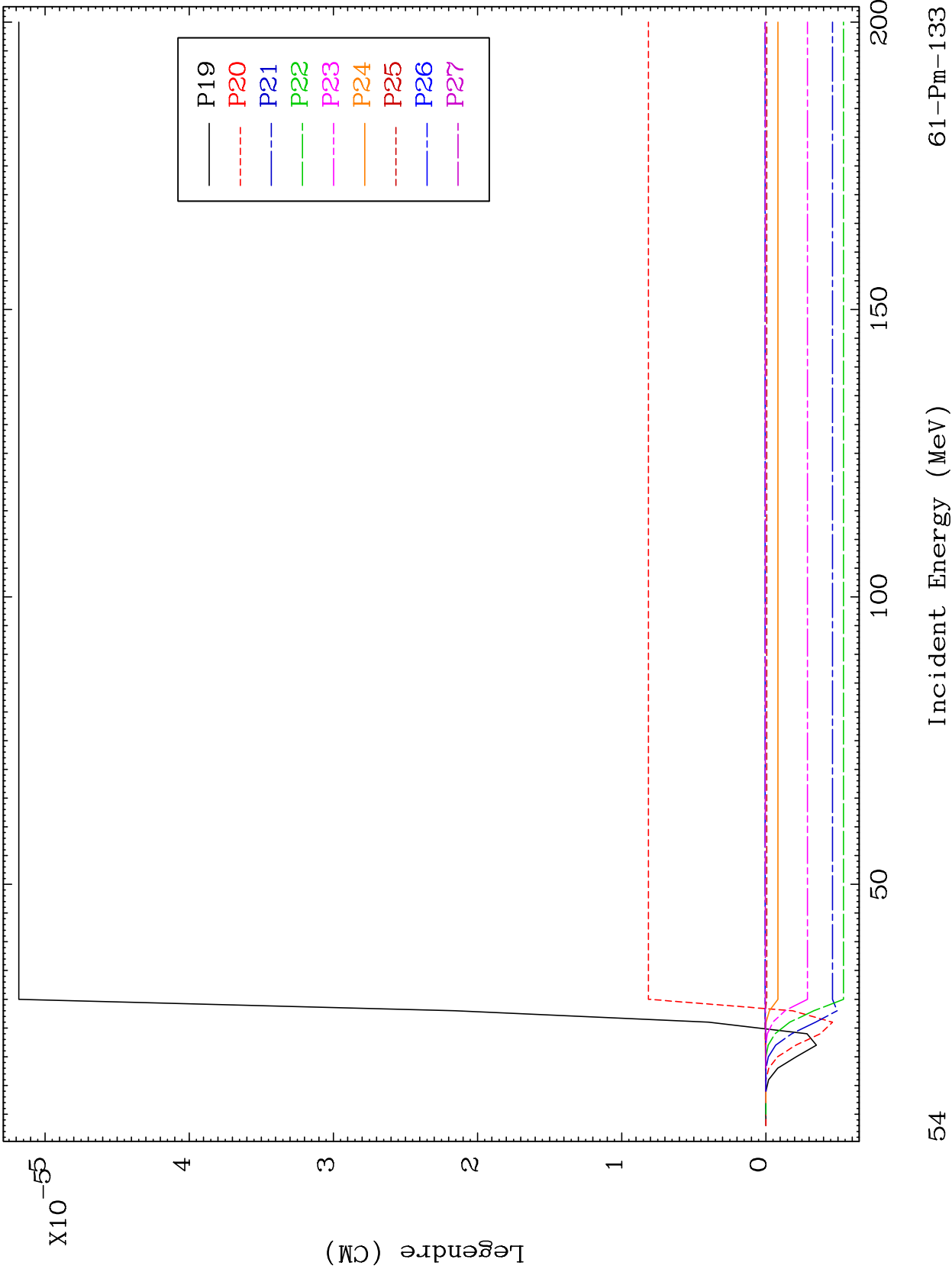
Incident Energy (MeV)

61-Pm-133

MAT 6107

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

61-Pm-133



54

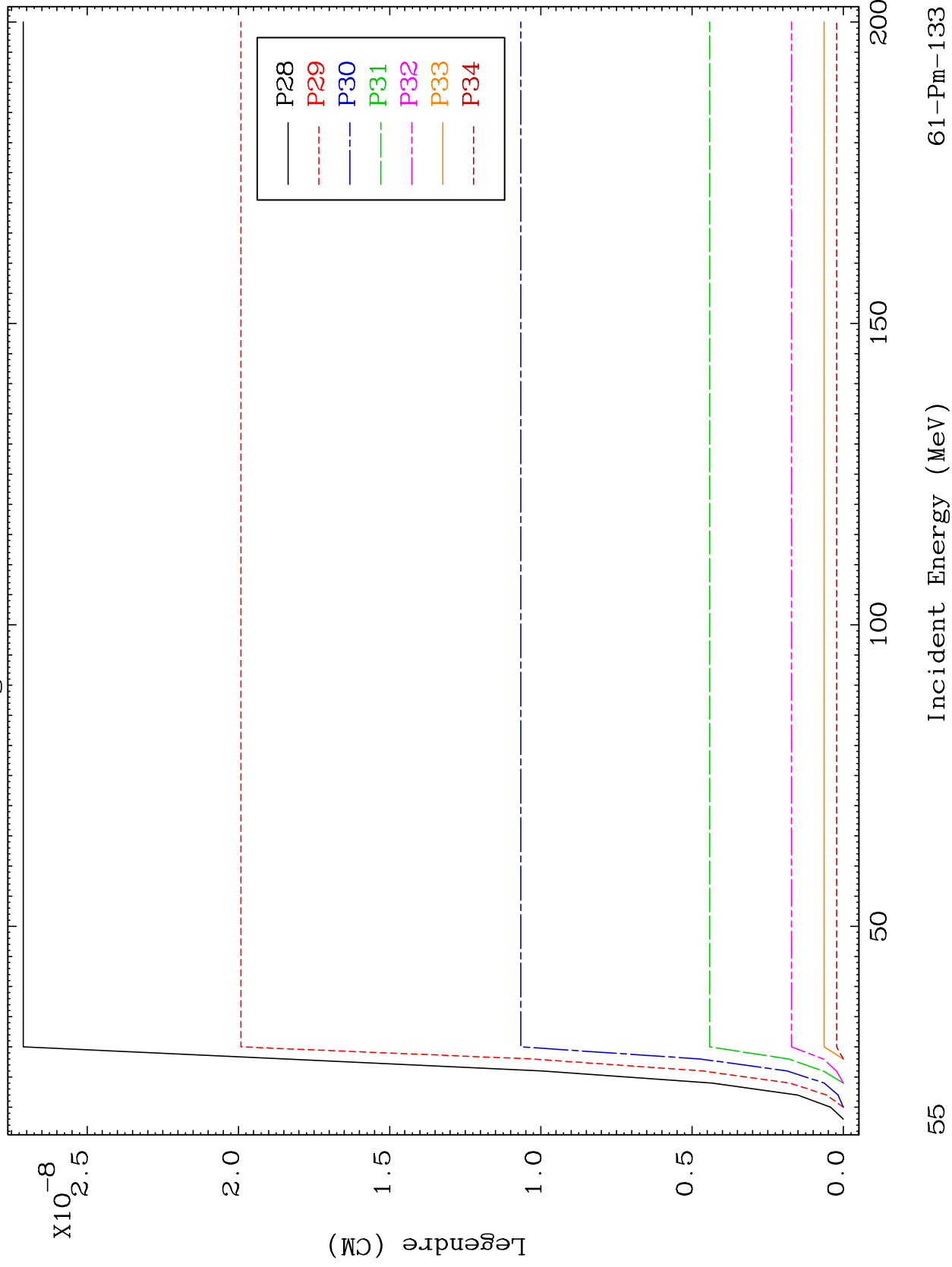
Incident Energy (MeV)

61-Pm-133

MAT 6107

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

61-Pm-133



61-Pm-133

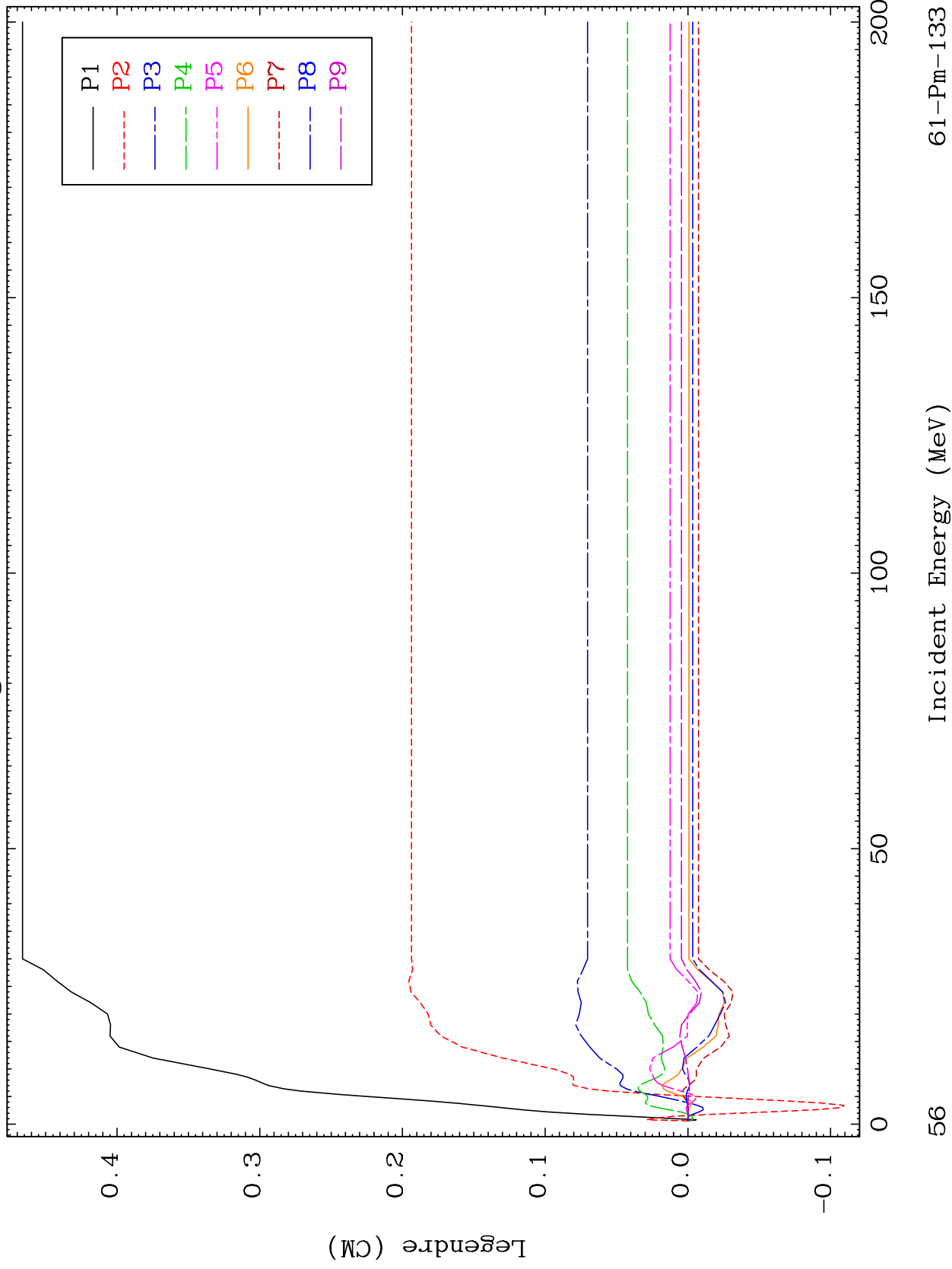
Incident Energy (MeV)

55

MAT 6107

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

61-Pm-133



61-Pm-133

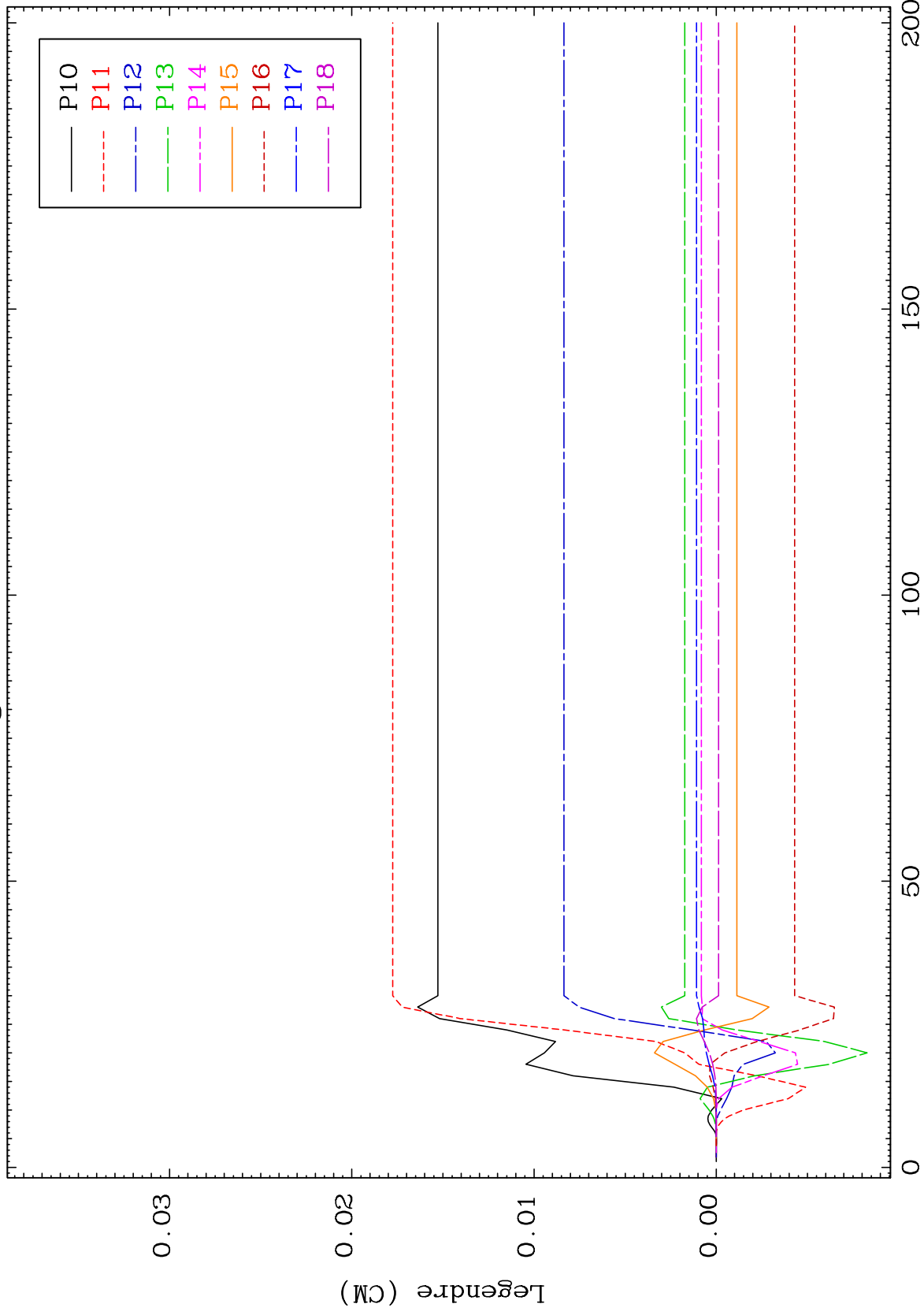
Incident Energy (MeV)

56

MAT 6107

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

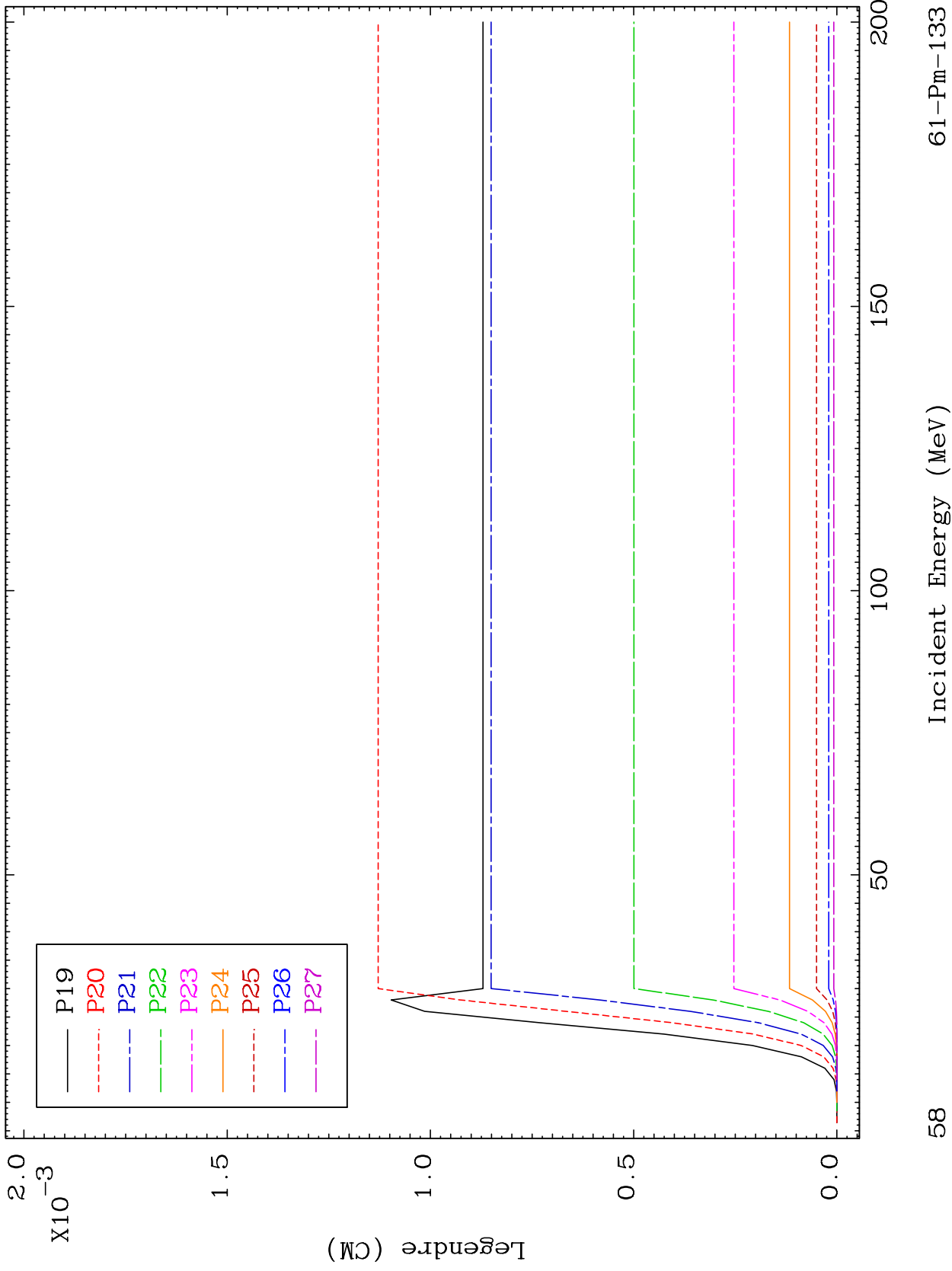
61-Pm-133



57

Incident Energy (MeV)

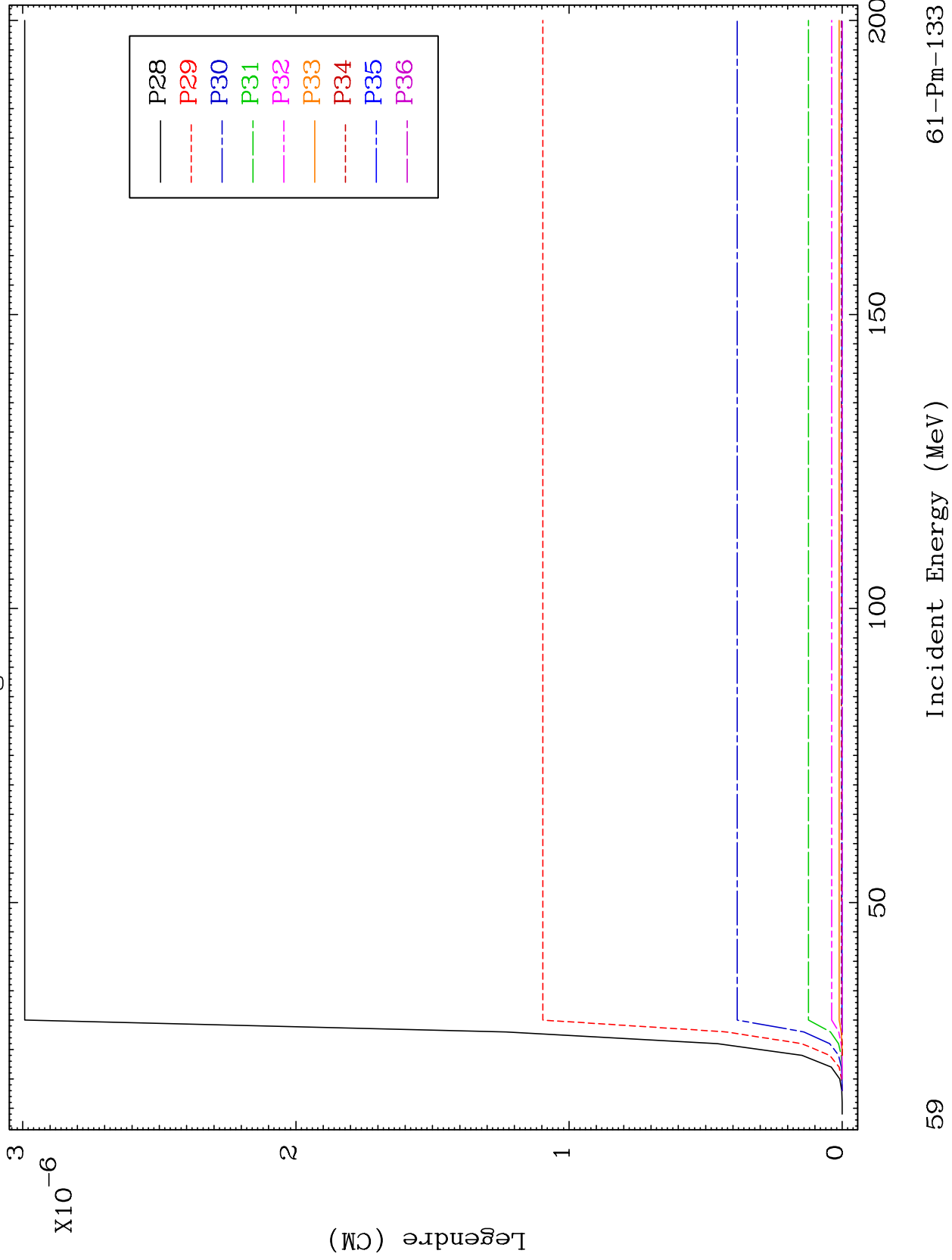
61-Pm-133



MAT 6107

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

61-Pm-133



61-Pm-133

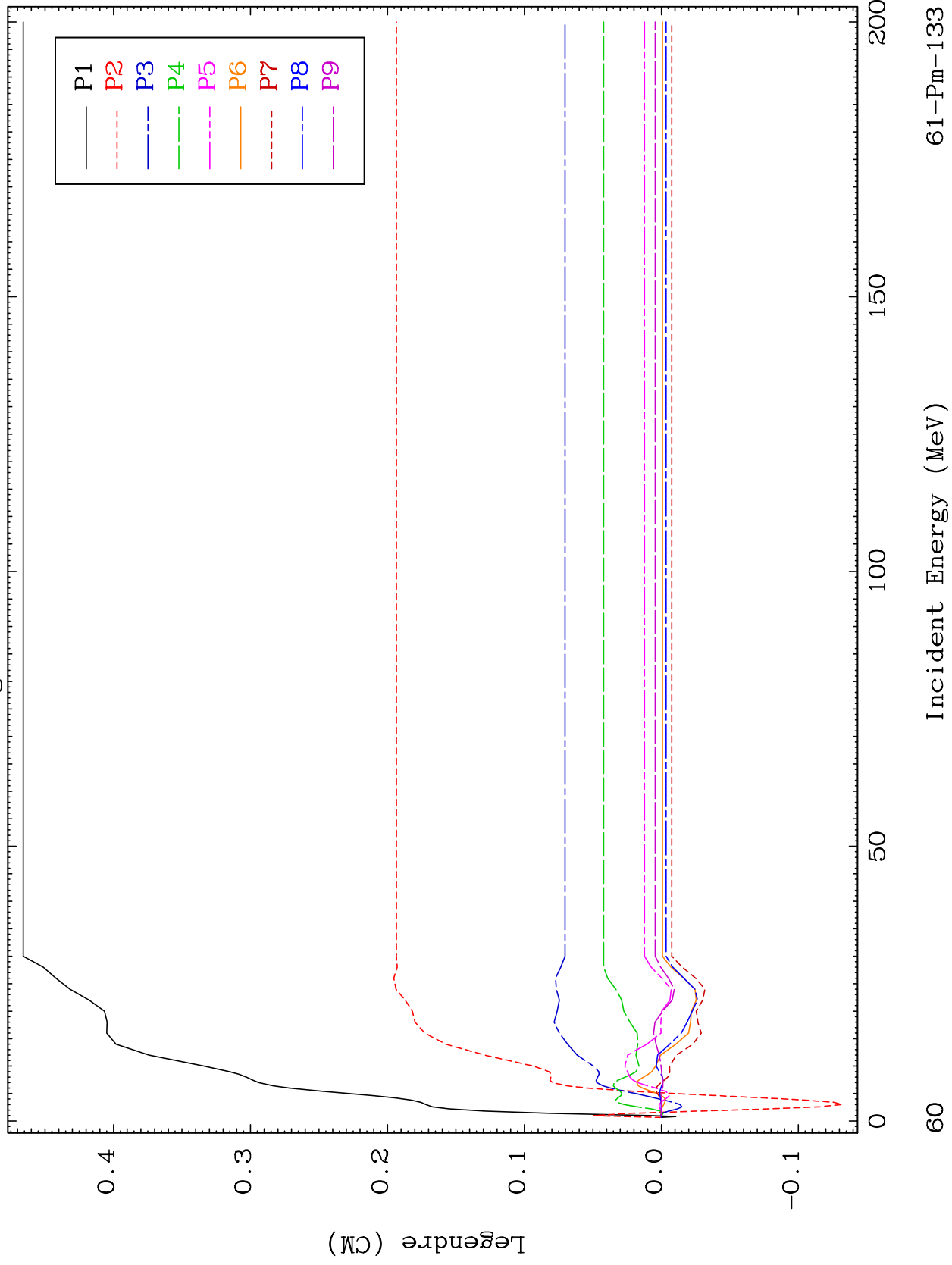
Incident Energy (MeV)

59

MAT 6107

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

61-Pm-133



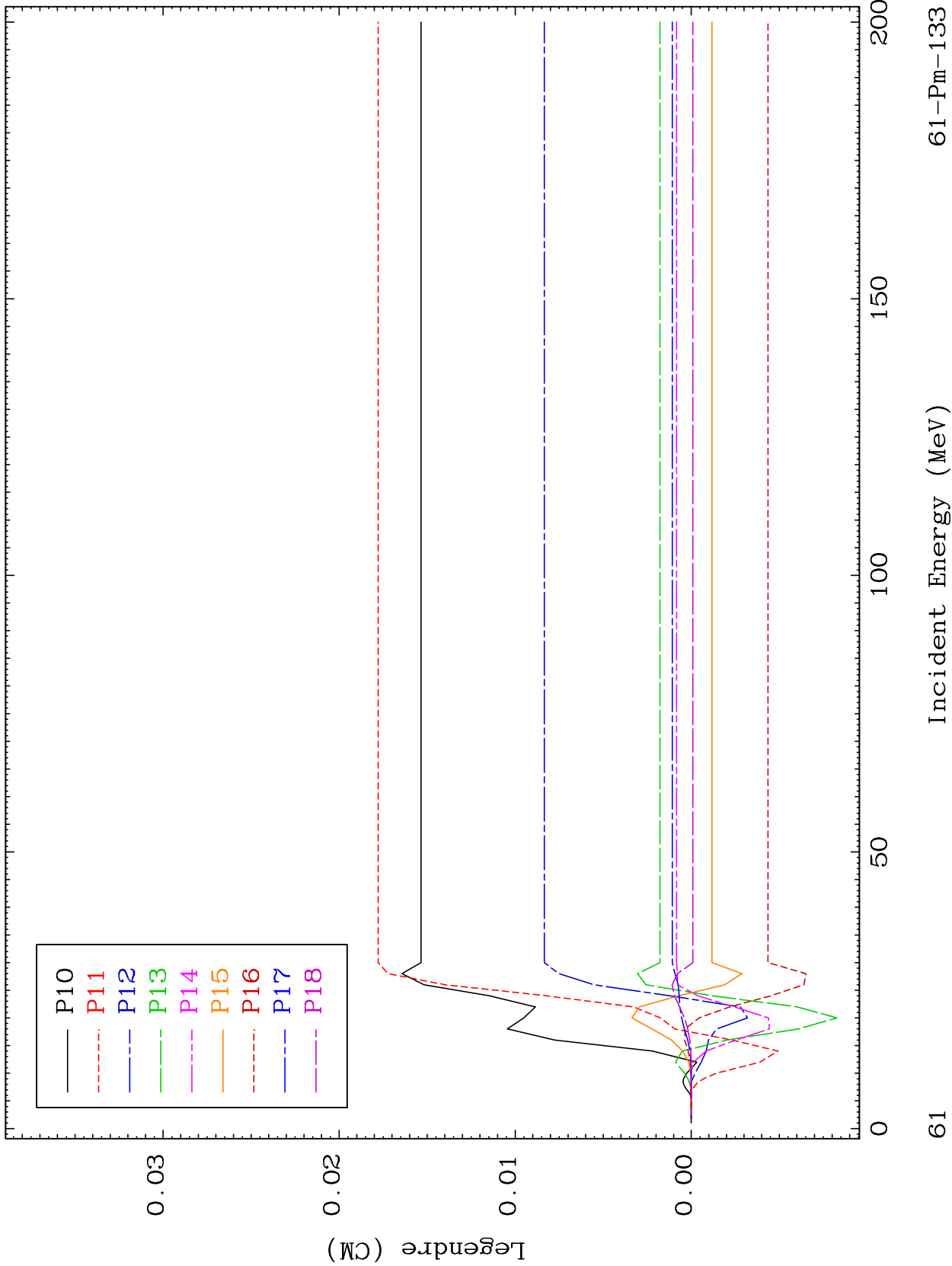
61-Pm-133

Incident Energy (MeV)

MAT 6107

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

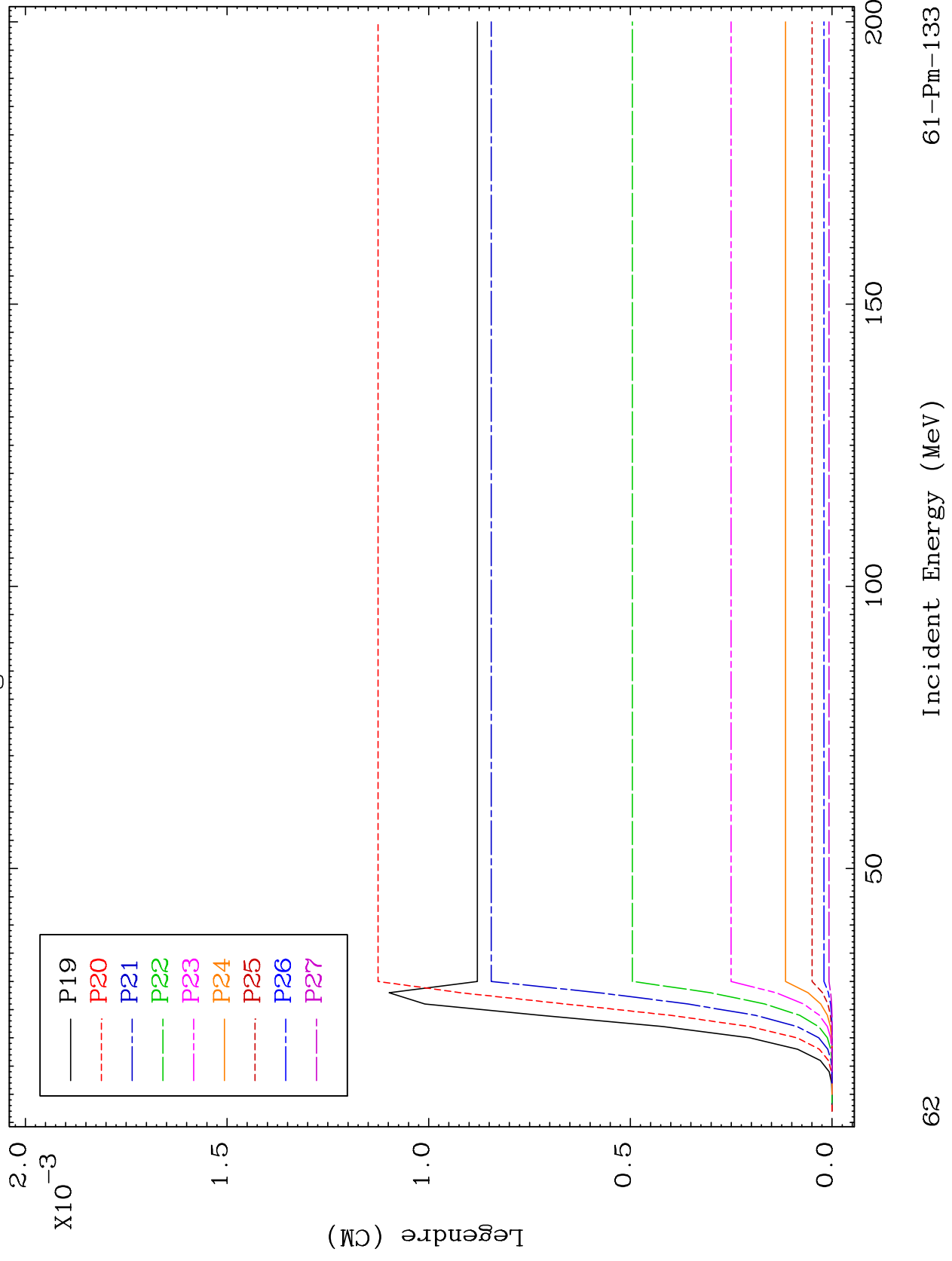
61-Pm-133



61

Incident Energy (MeV)

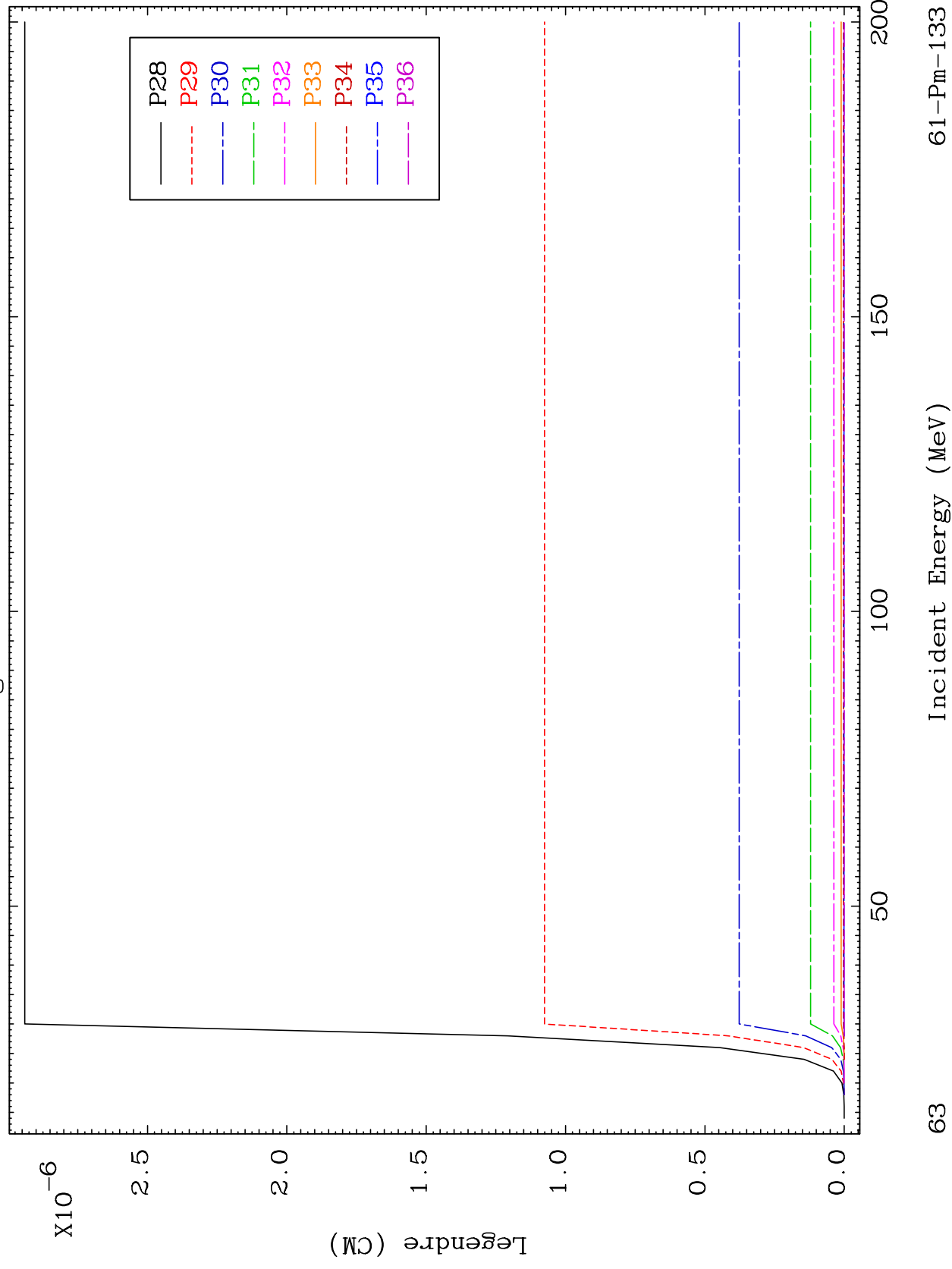
61-Pm-133



MAT 6107

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

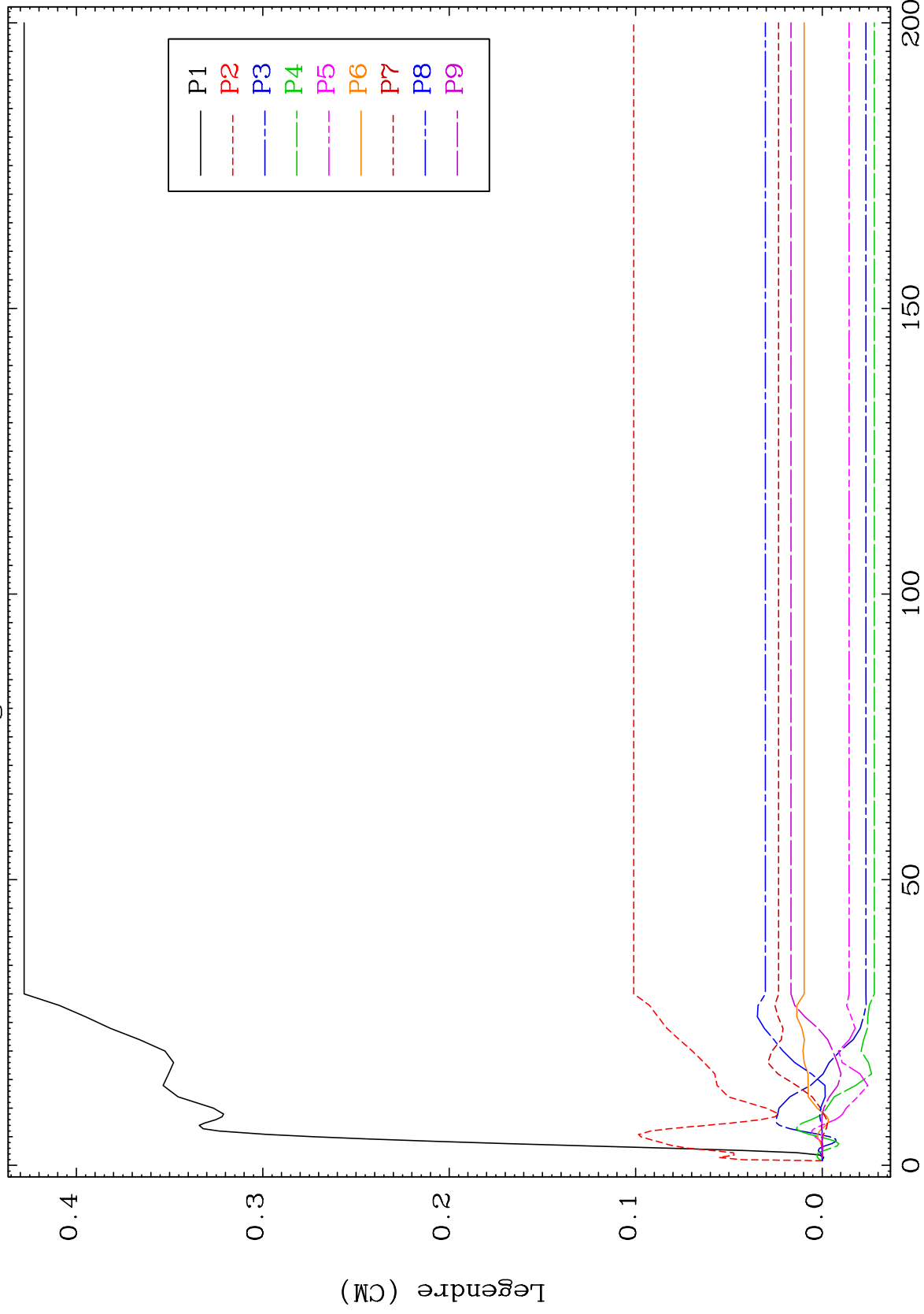
61-Pm-133



MAT 6107

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

61-Pm-133



64

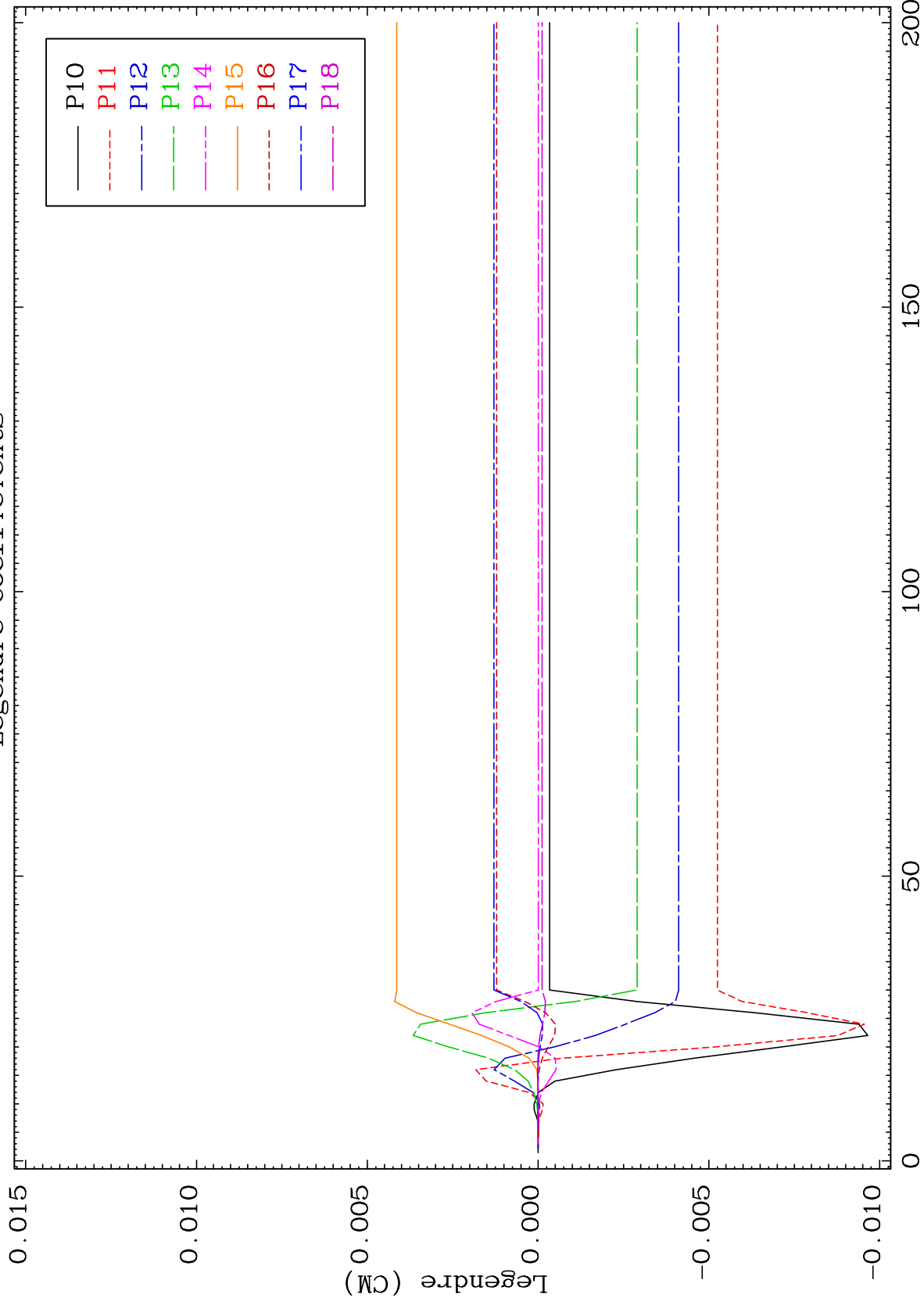
Incident Energy (MeV)

61-Pm-133

MAT 6107

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

61-Pm-133



65

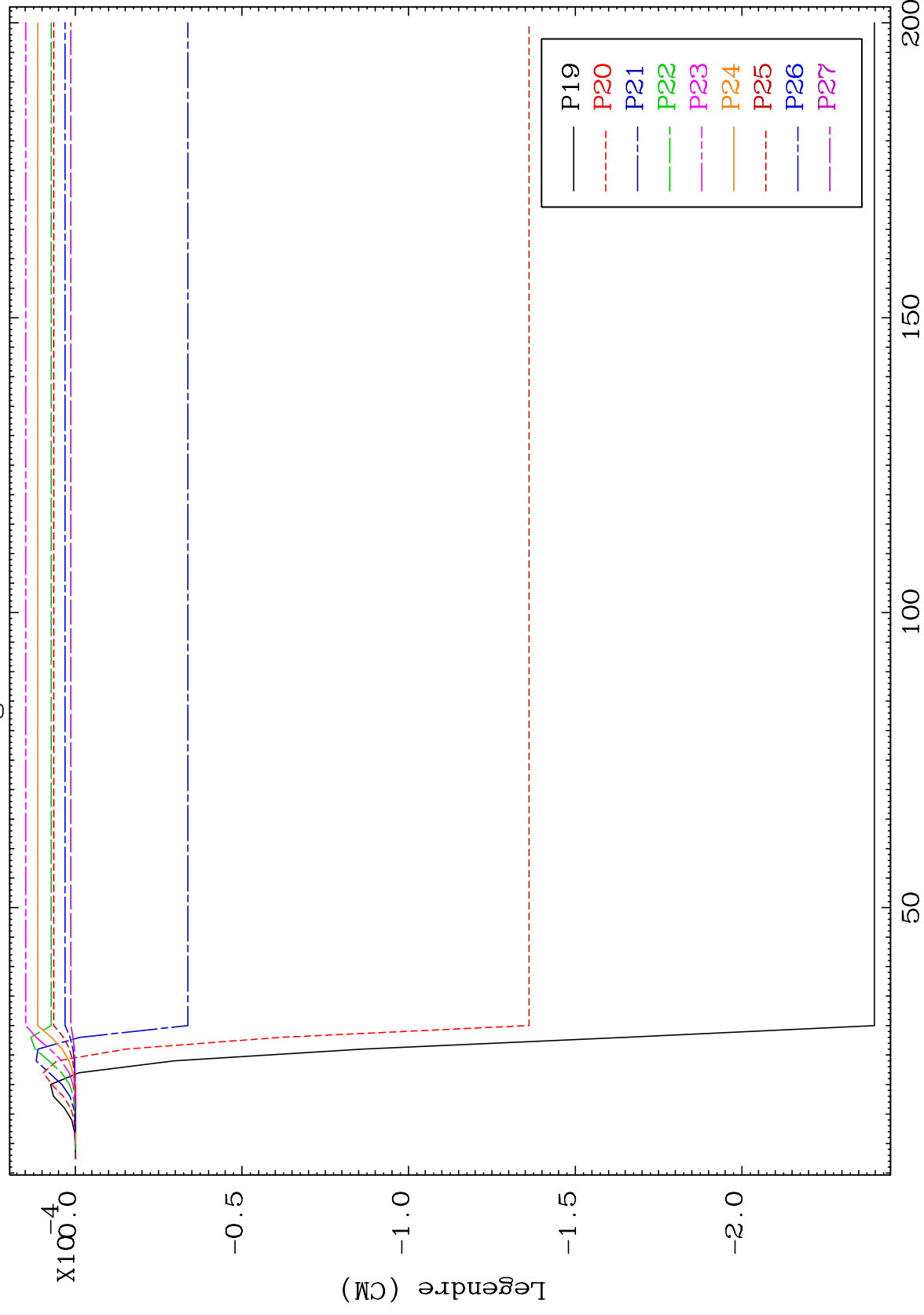
Incident Energy (MeV)

61-Pm-133

MAT 6107

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

61-Pm-133



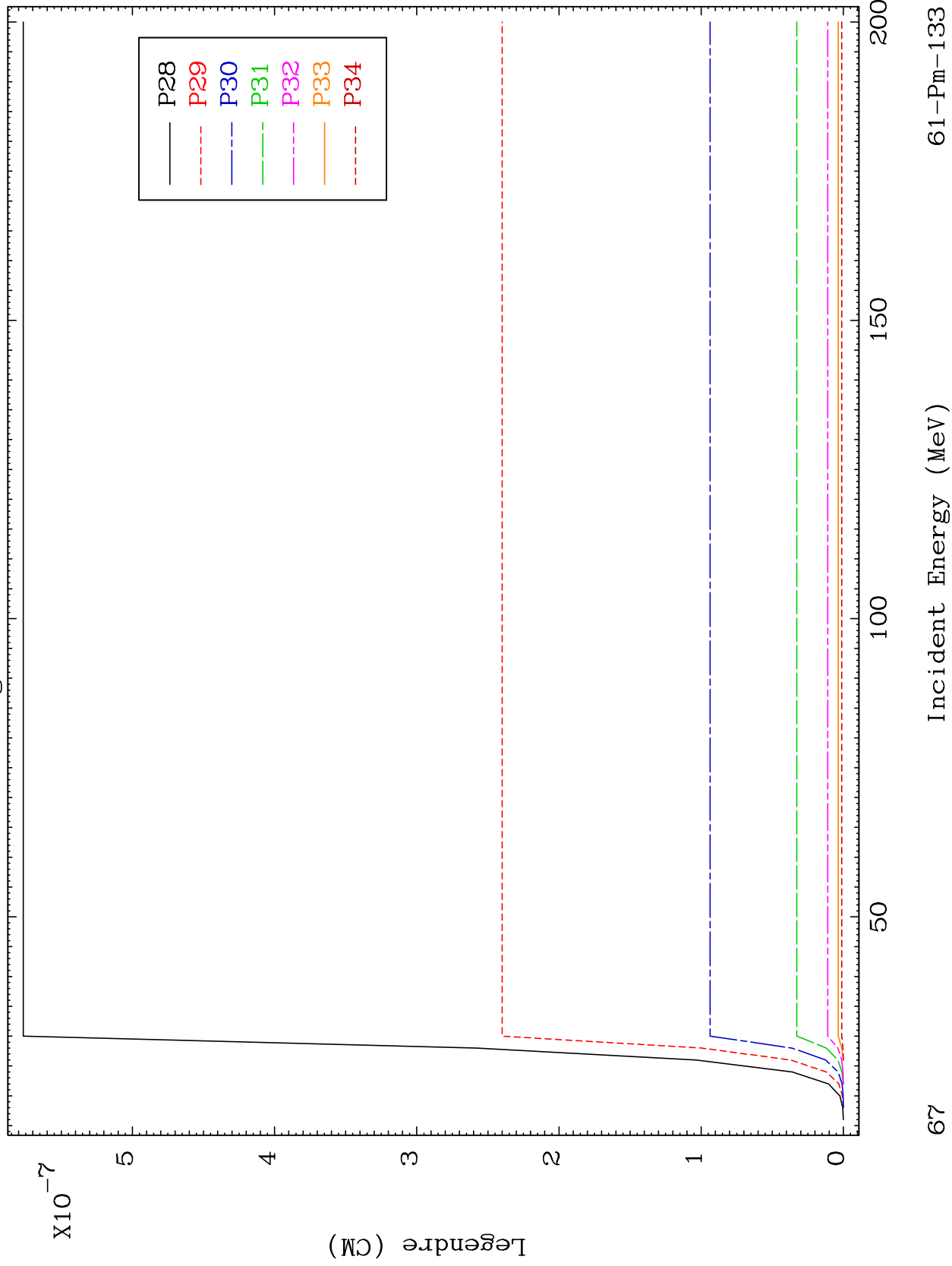
66

61-Pm-133

MAT 6107

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

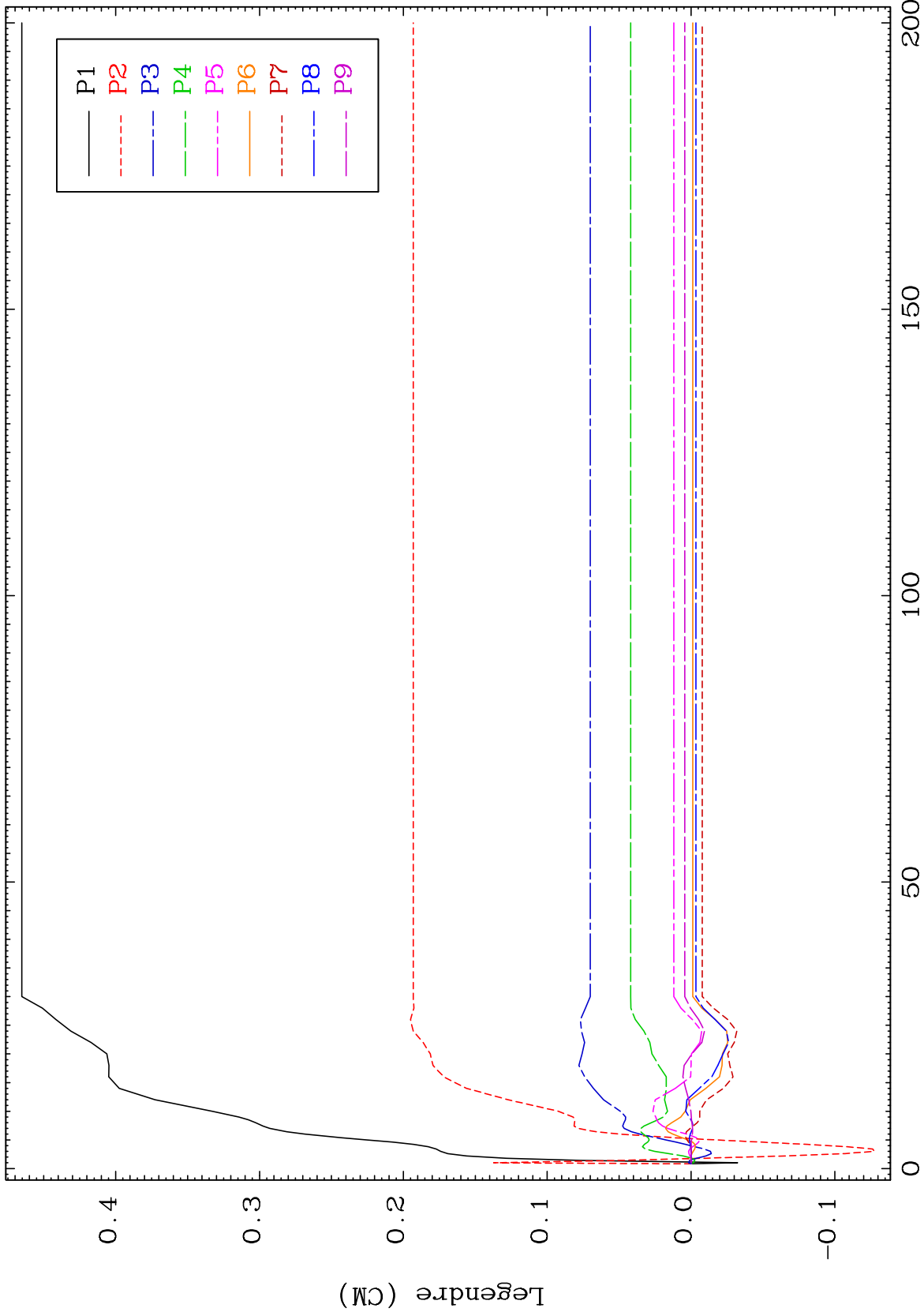
61-Pm-133



MAT 6107

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

61-Pm-133



68

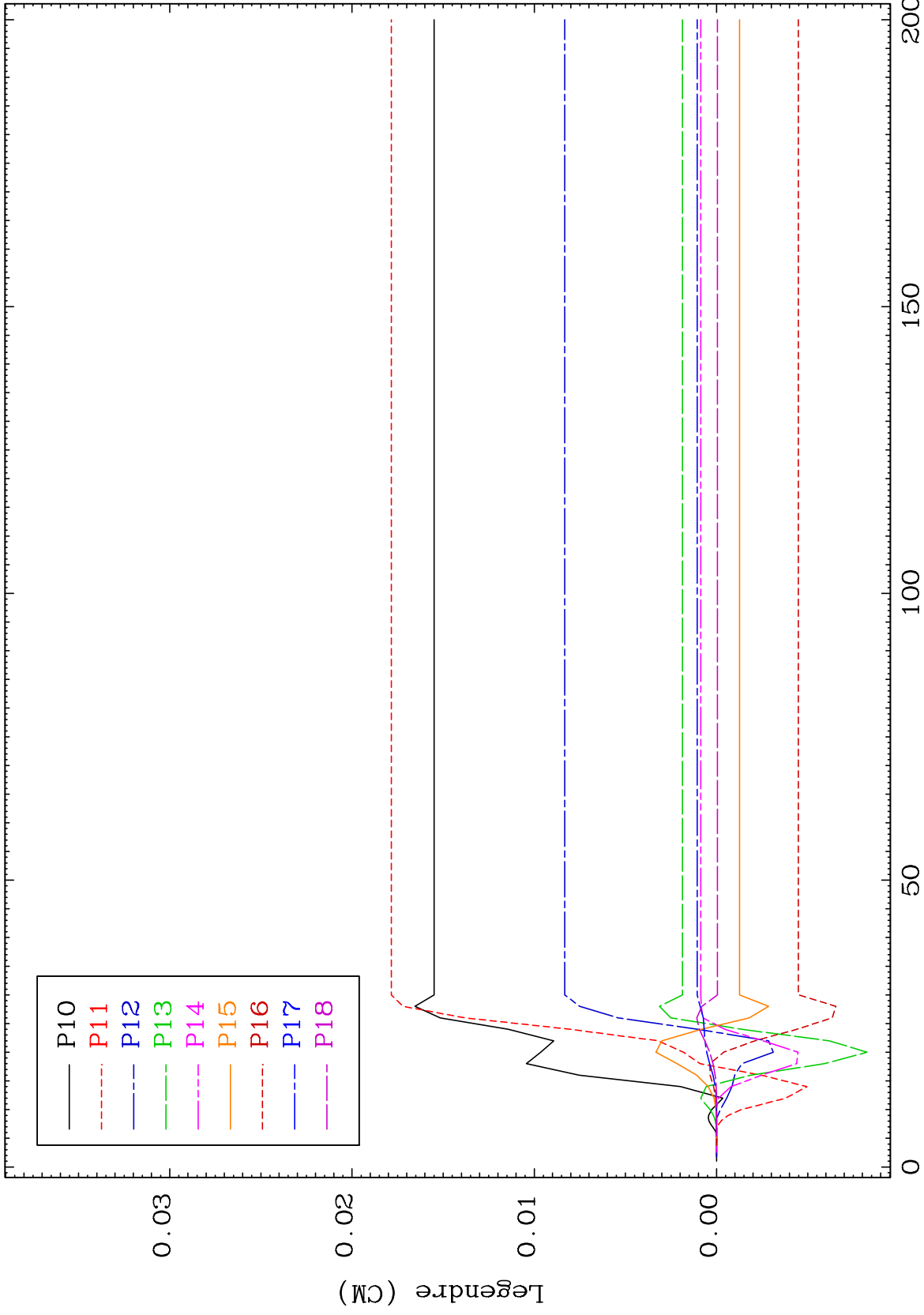
Incident Energy (MeV)

61-Pm-133

MAT 6107

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

61-Pm-133



69

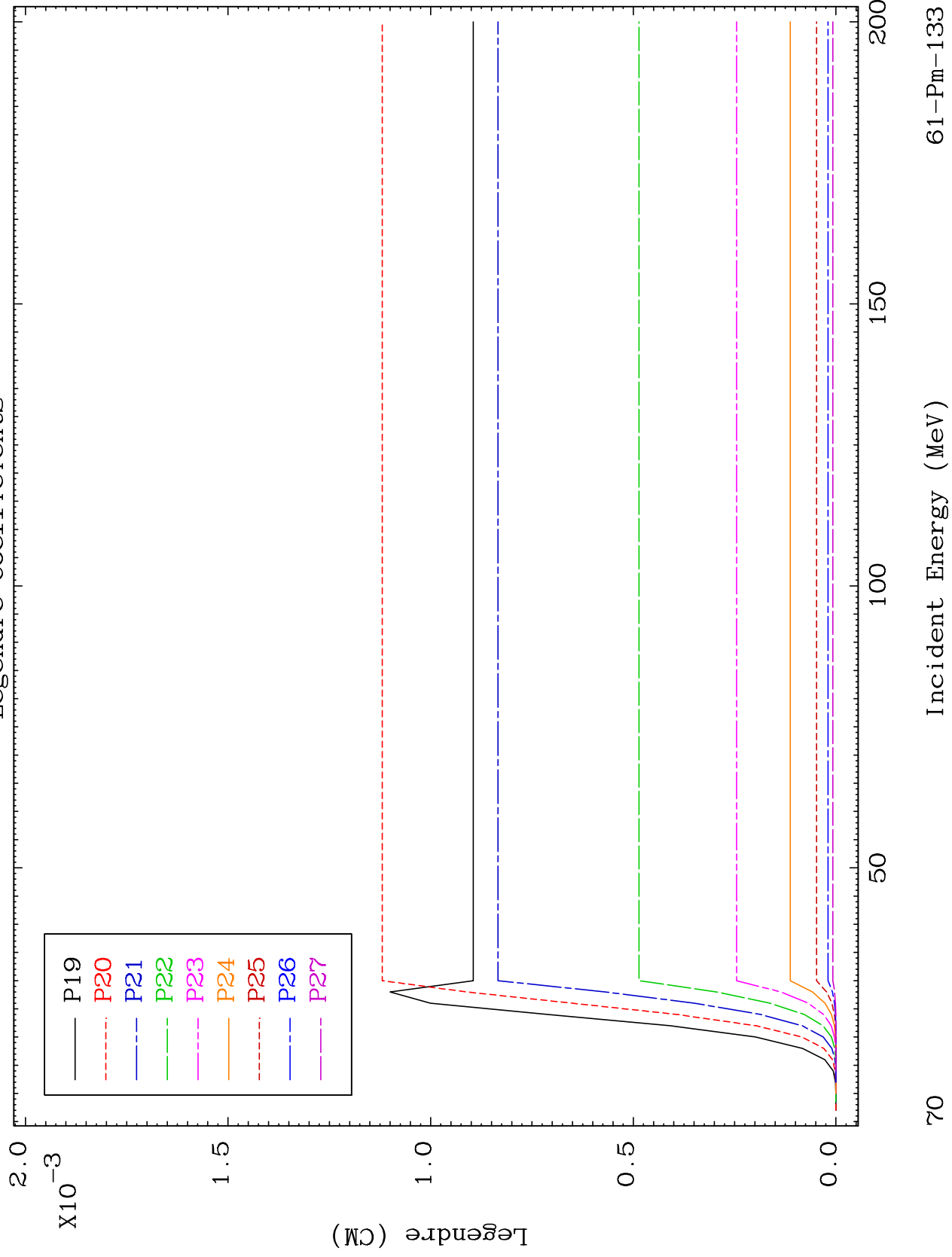
Incident Energy (MeV)

61-Pm-133

MAT 6107

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

61-Pm-133



70

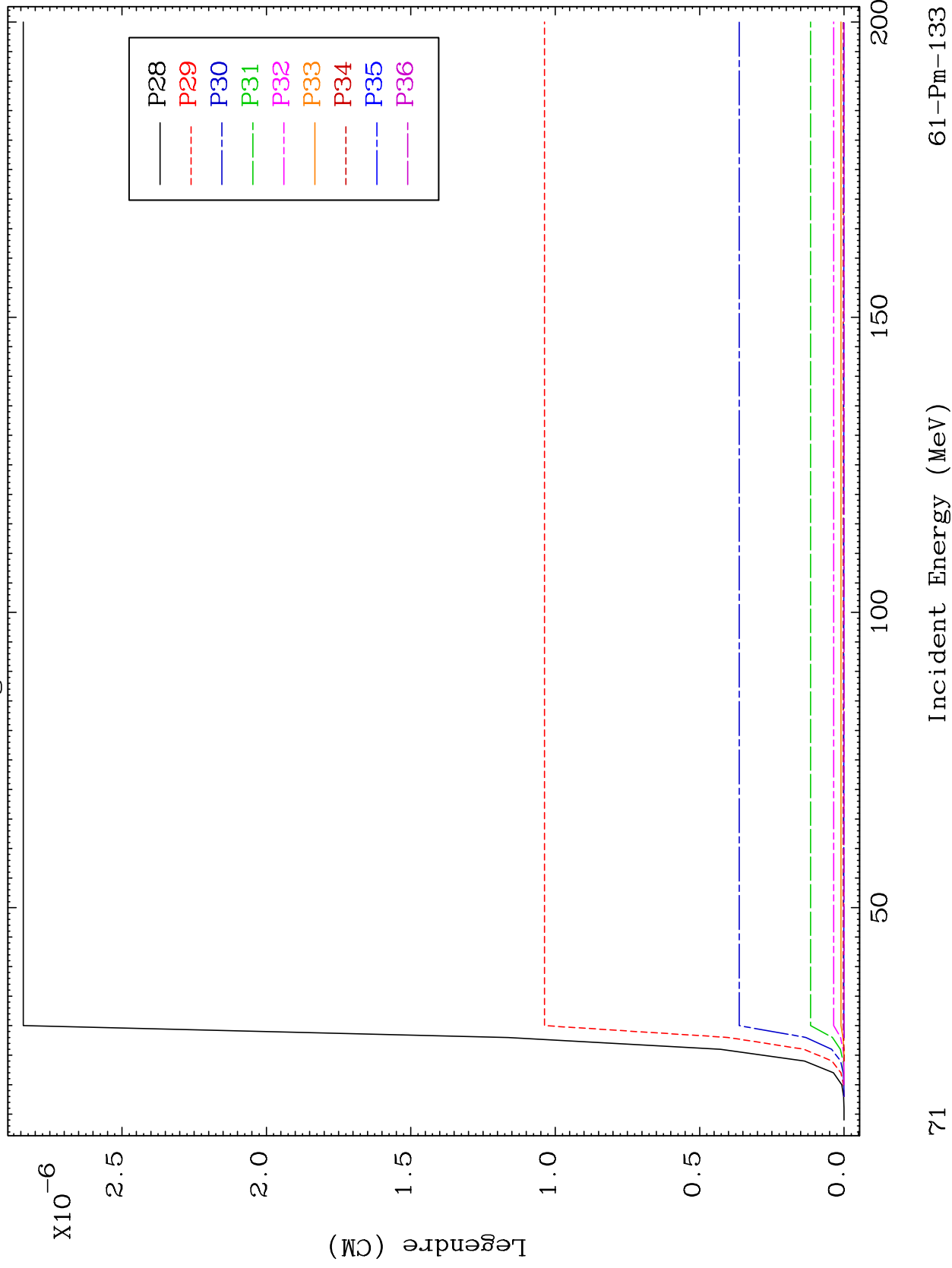
Incident Energy (MeV)

61-Pm-133

MAT 6107

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

61-Pm-133

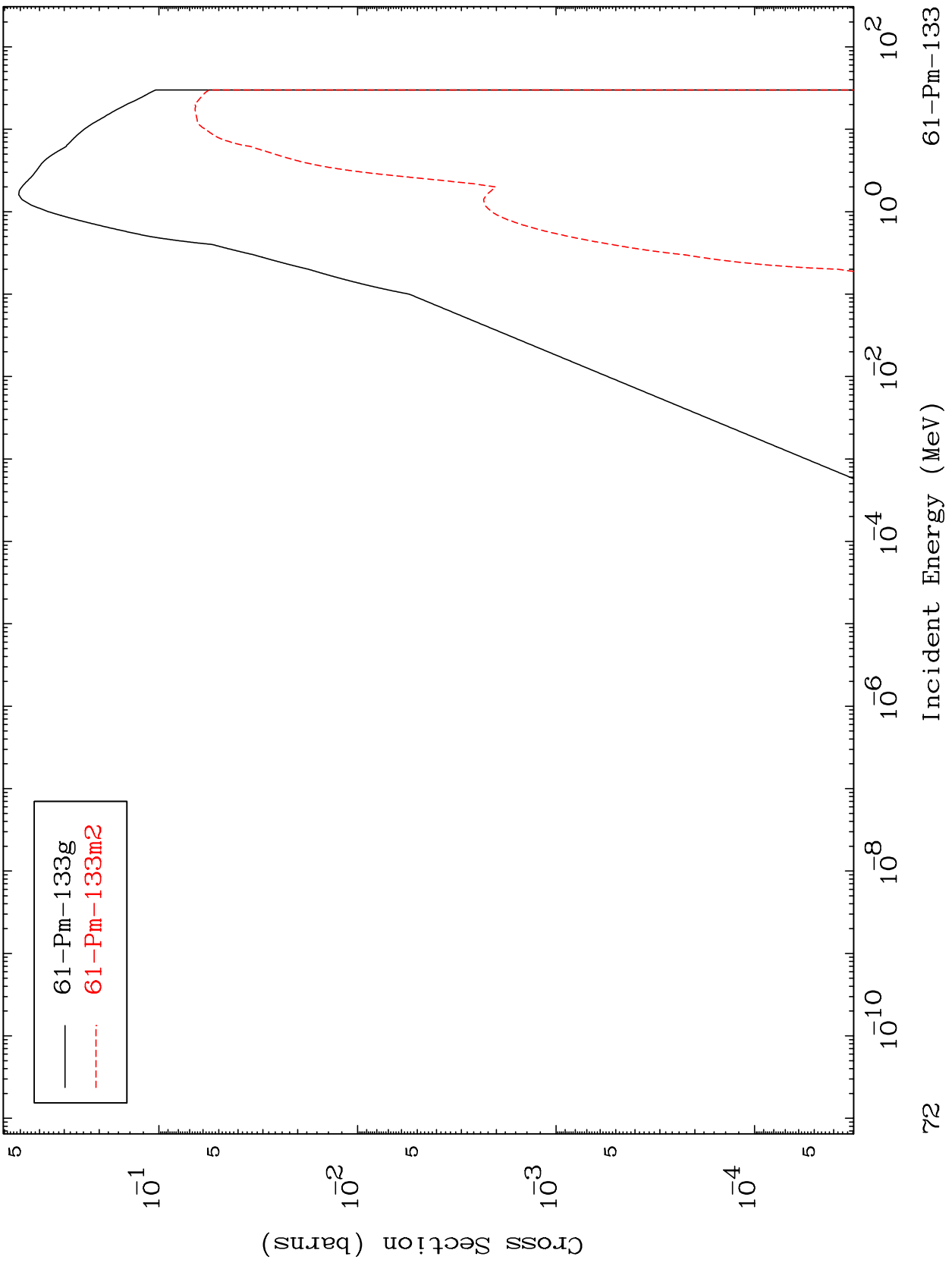


MAT 6107

Inelastic

61-Pm-133

Radionuclide Production Cross Section



72

Incident Energy (MeV)

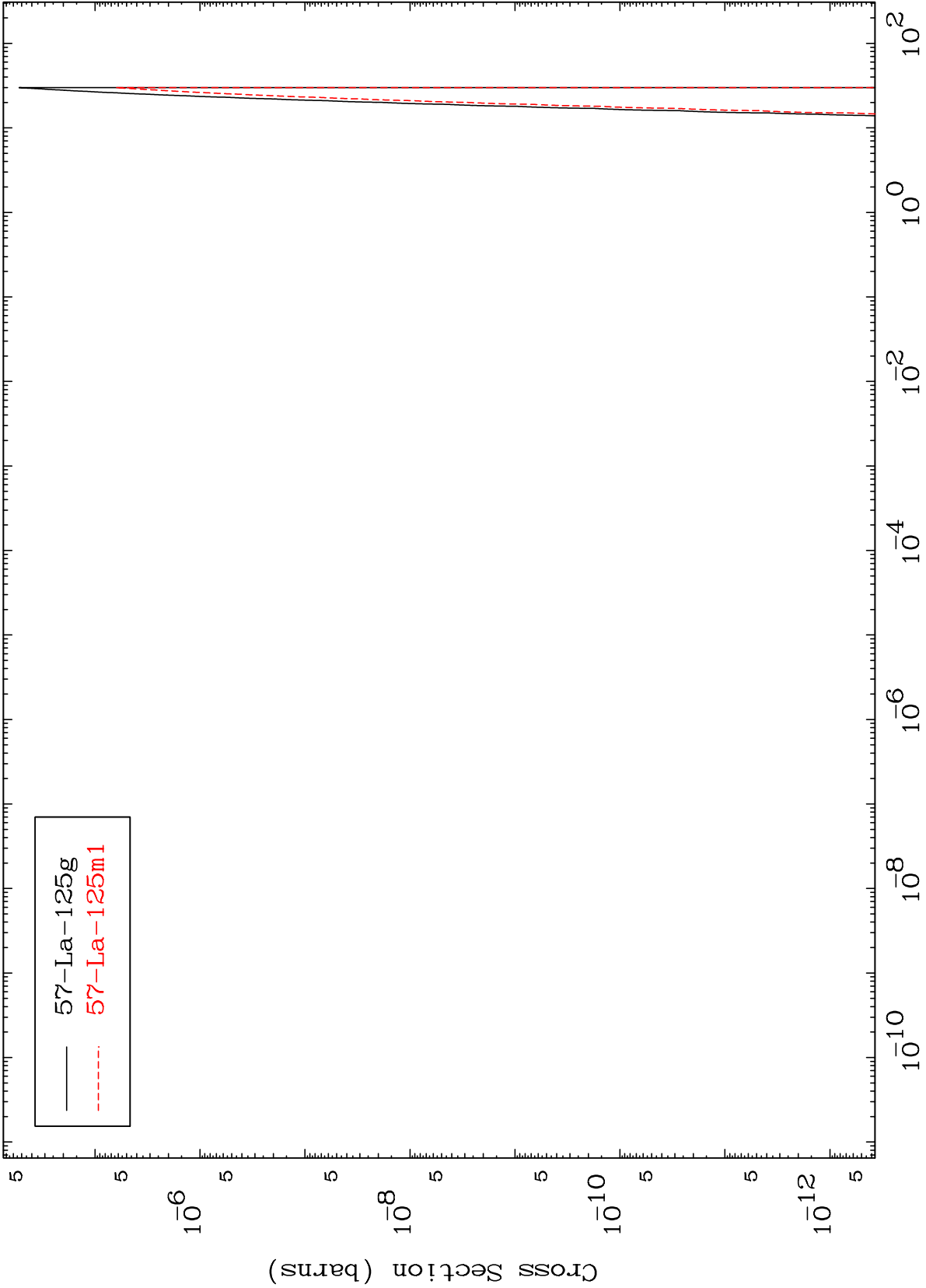
61-Pm-133

MAT 6107

(n,n') 2α

61-Pm-133

Radionuclide Production Cross Section



57-La-125g  
57-La-125m1

73

Incident Energy (MeV)

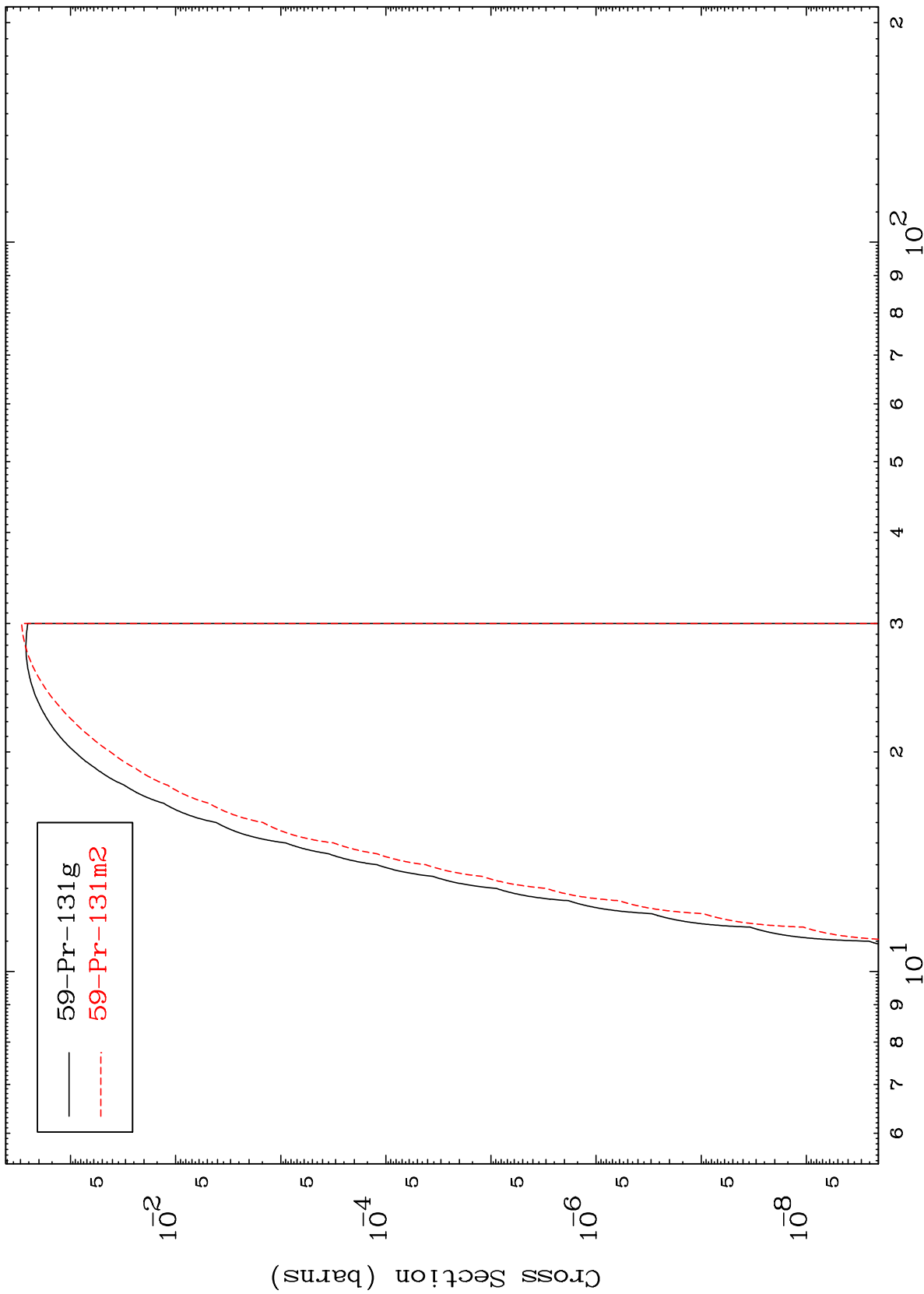
61-Pm-133

MAT 6107

(n,2n) p

61-Pm-133

Radionuclide Production Cross Section



74

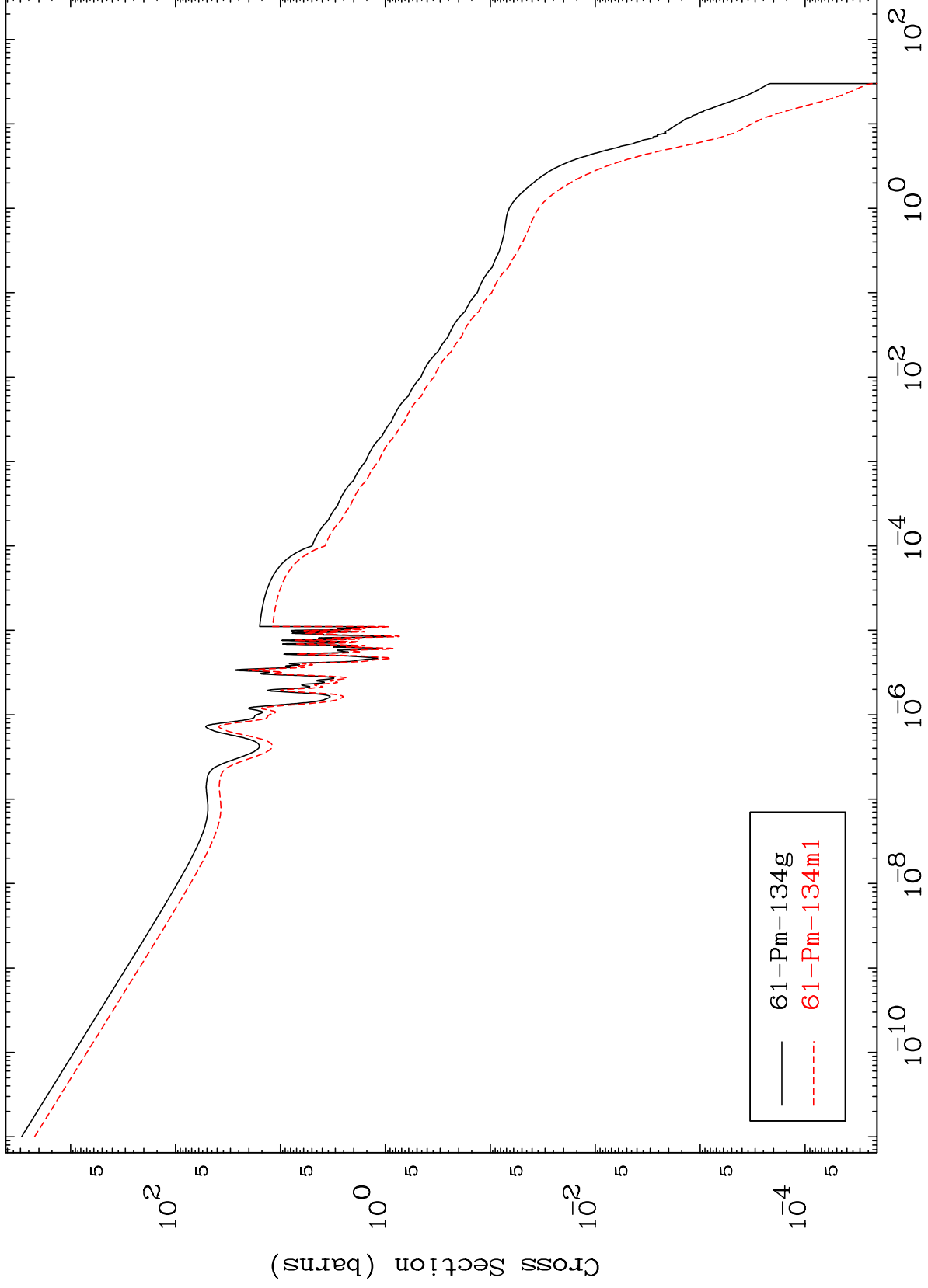
Incident Energy (MeV)

61-Pm-133

MAT 6107

61-Pm-133

$(n, \gamma)$   
Radionuclide Production Cross Section



75

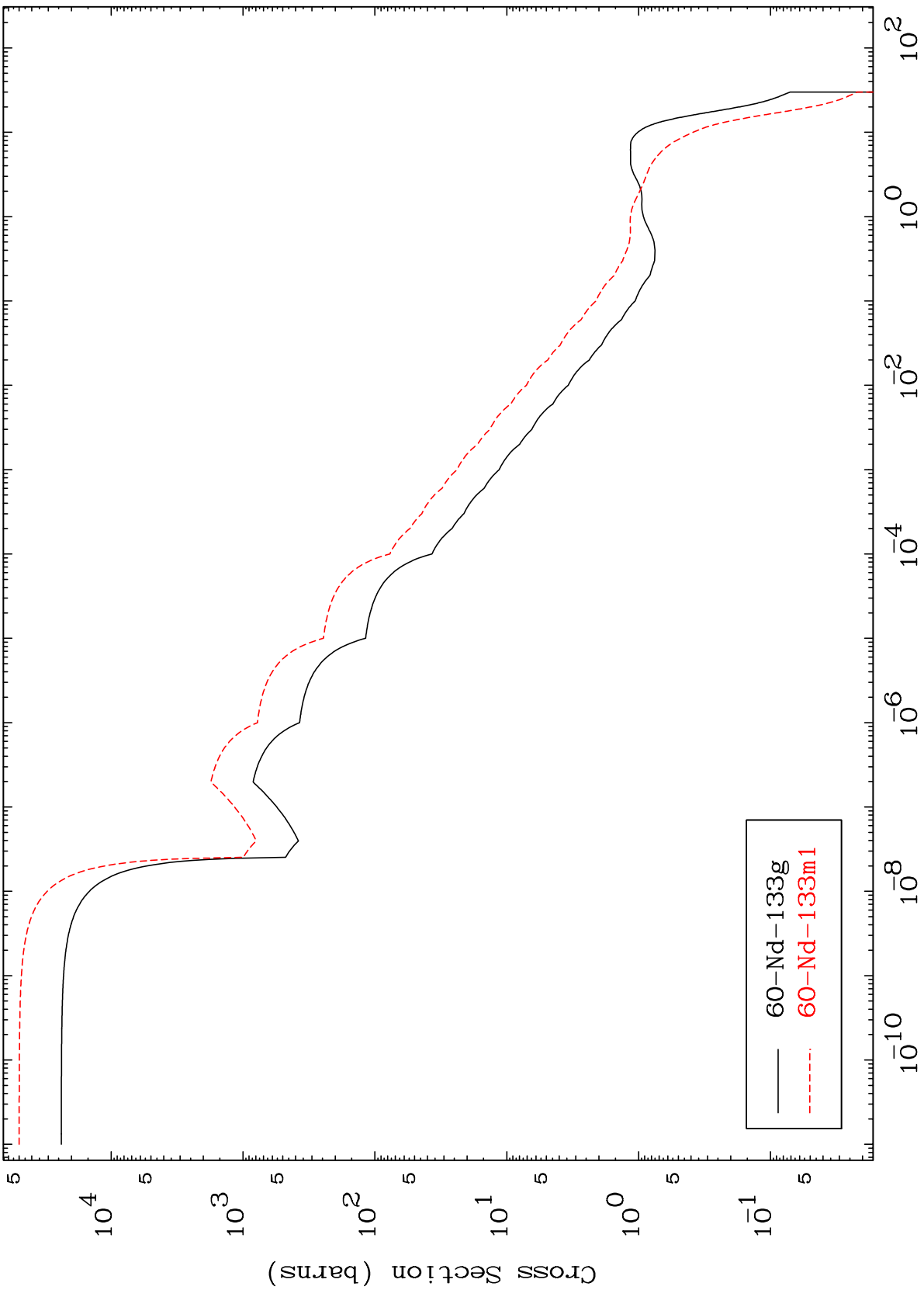
61-Pm-133

Incident Energy (MeV)

MAT 6107

61-Pm-133

Radionuclide Production Cross Section



61-Pm-133

Incident Energy (MeV)

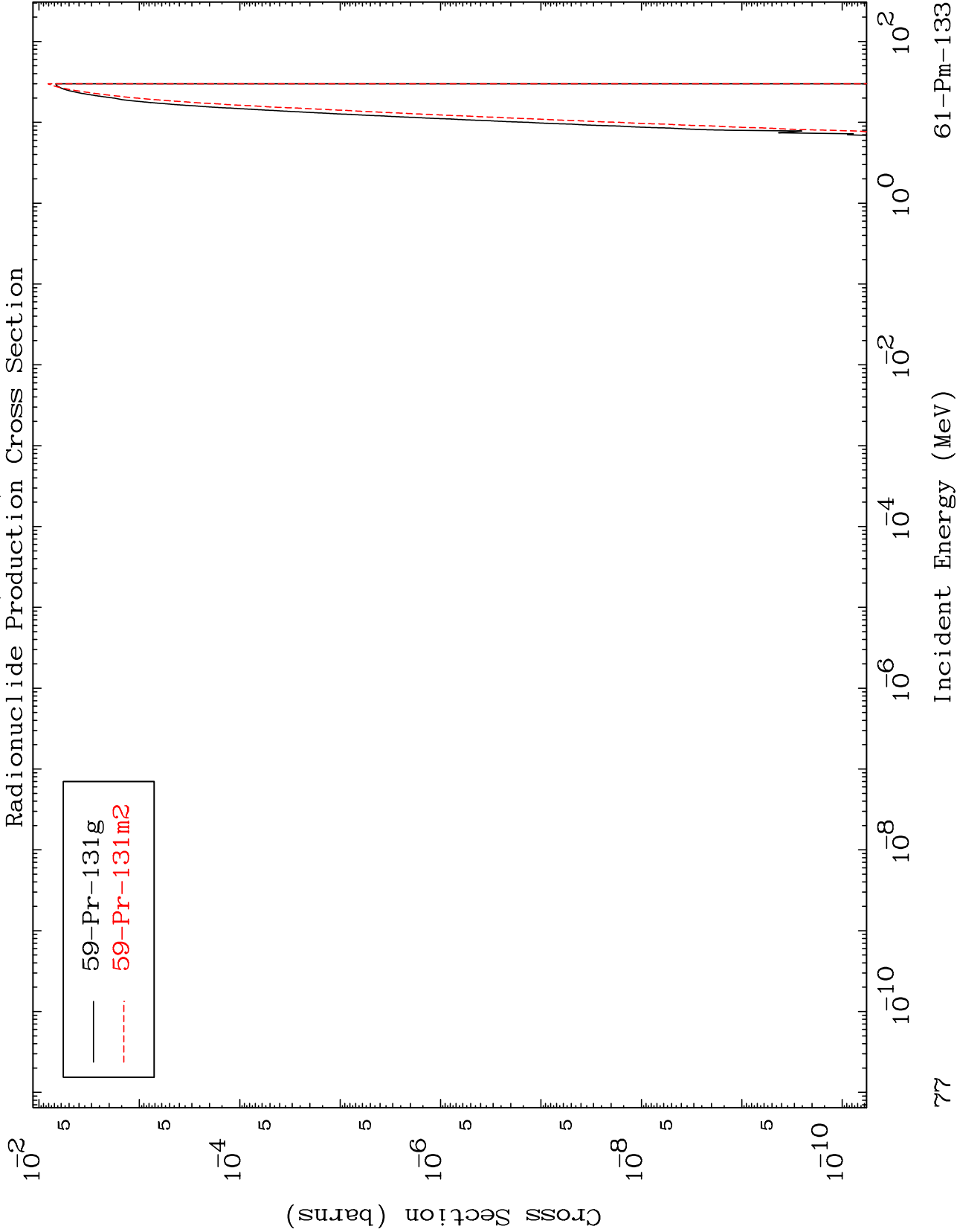
76

MAT 6107

(n,He-3)

61-Pm-133

Radionuclide Production Cross Section



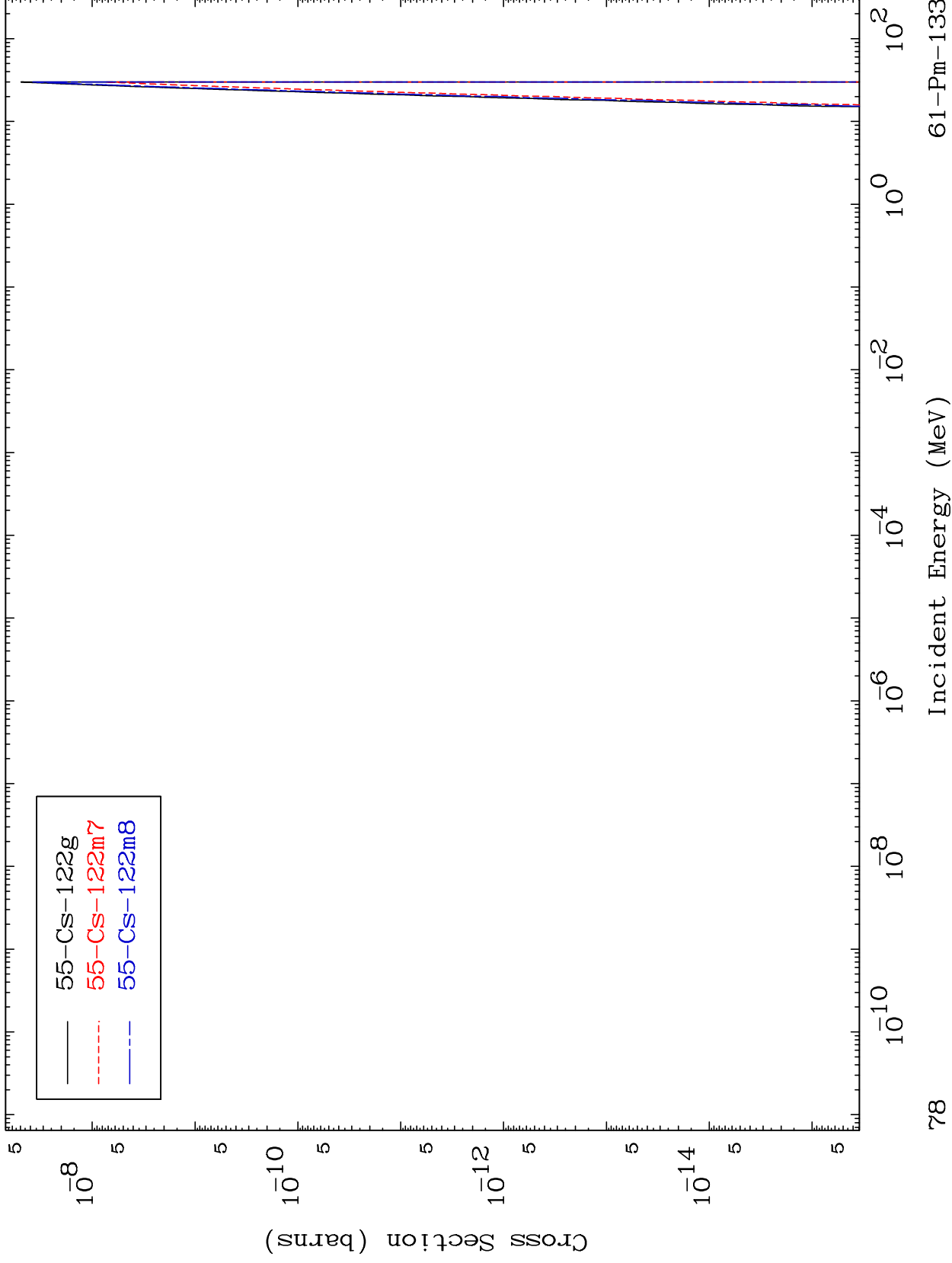
59-Pr-131g  
59-Pr-131m2

MAT 6107

(n, 3α)

61-Pm-133

Radionuclide Production Cross Section



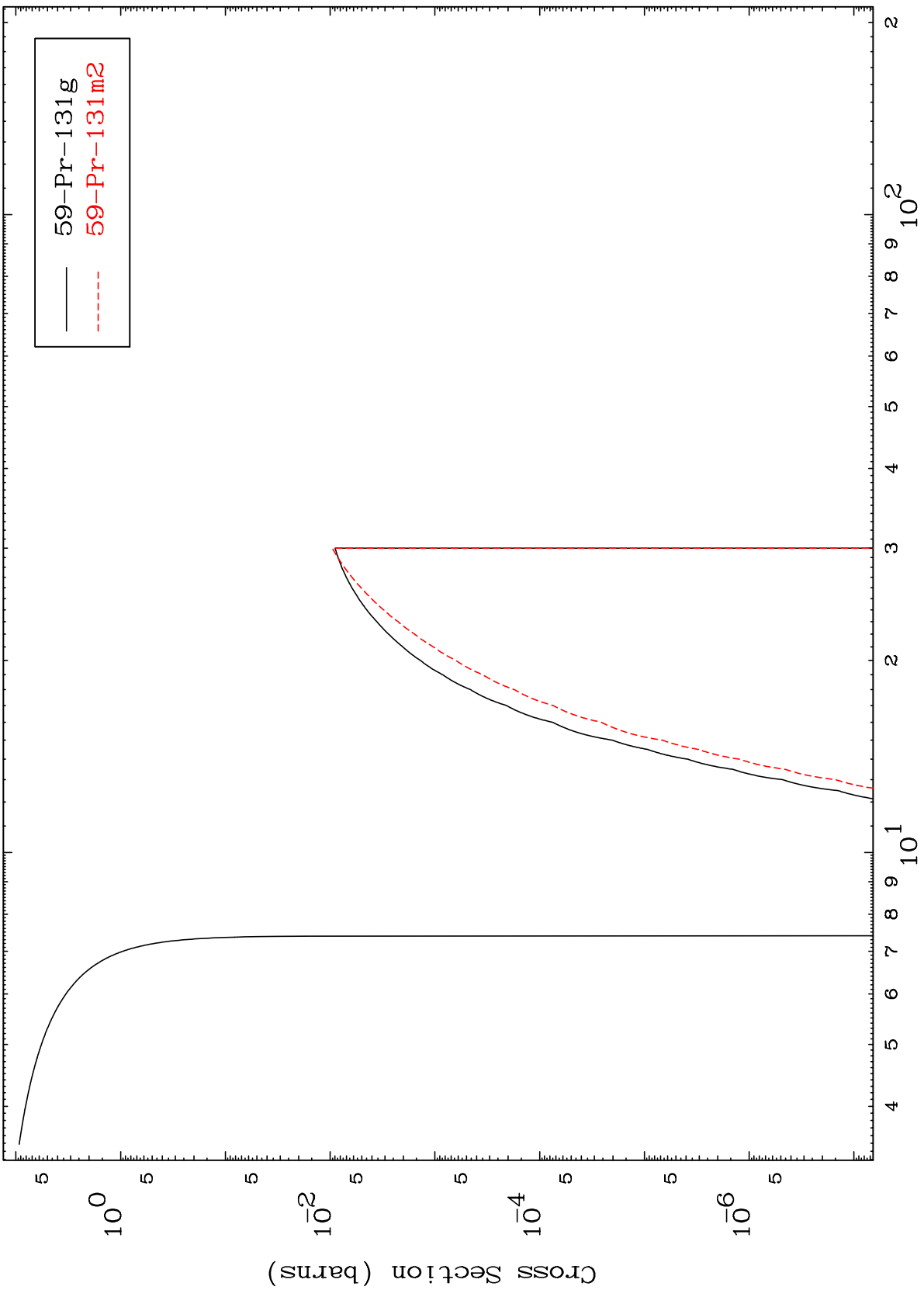
78

MAT 6107

(n,p) d

61-Pm-133

Radionuclide Production Cross Section



59-Pr-131g  
59-Pr-131m2

79

Incident Energy (MeV)

61-Pm-133