

Program EVALPLOT  
(Version 2021-1)

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](mailto:redcullen1@comcast.net)

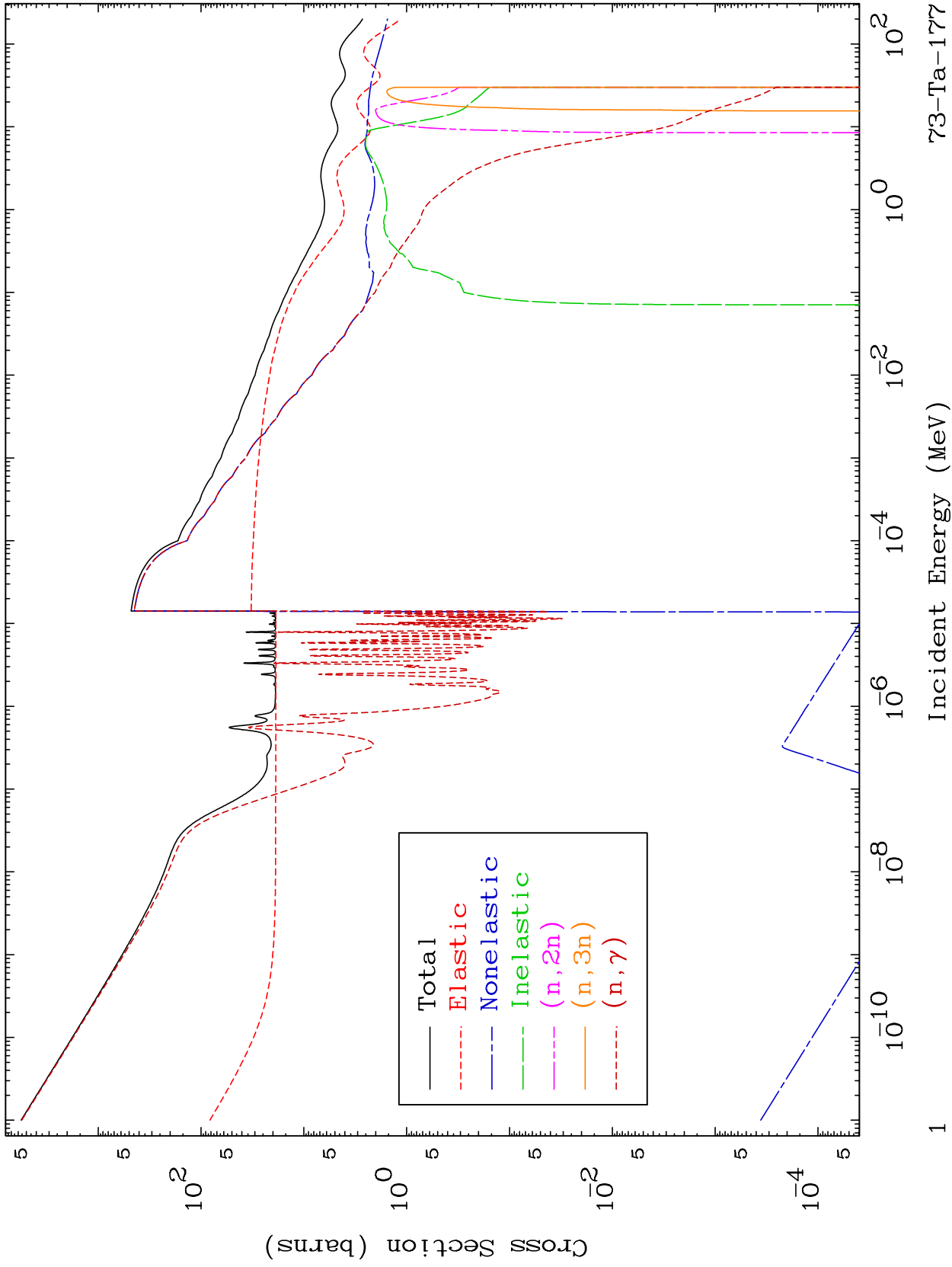
Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

Press Mouse Button to Start

MAT 7316

Neutron Major  
293 Kelvin Cross Sections

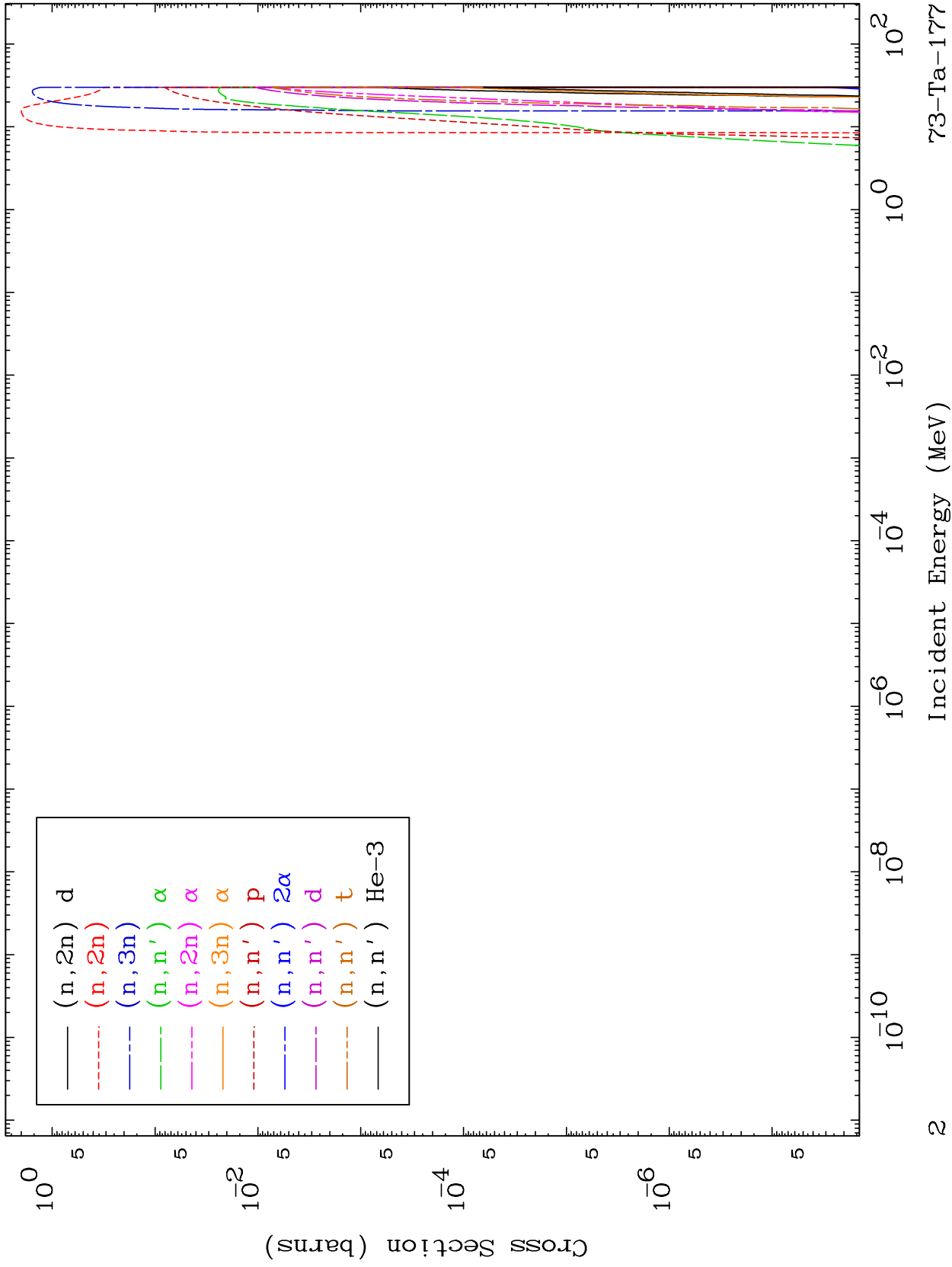
73-Ta-177



MAT 7316

Neutron Absorption  
293 Kelvin Cross Sections

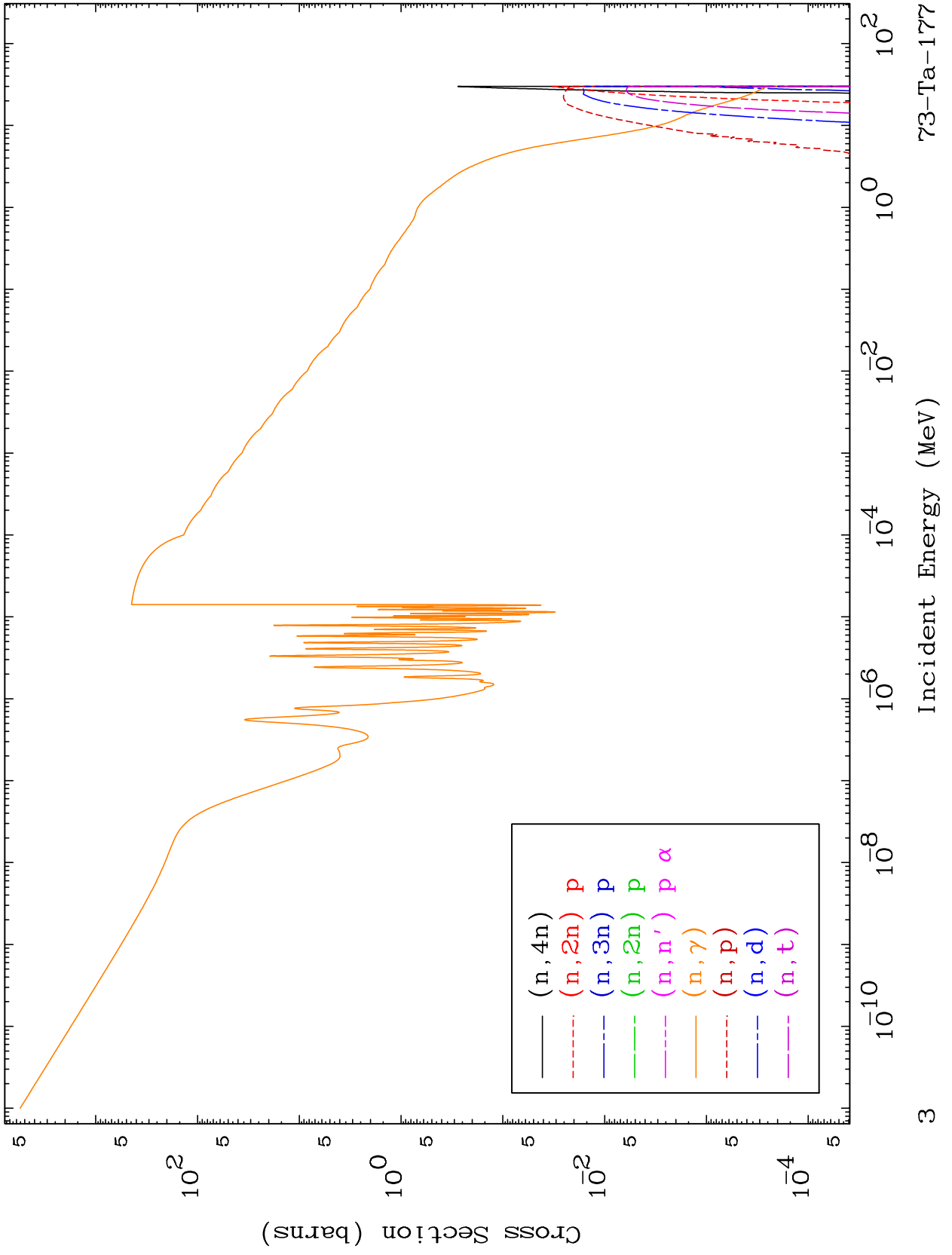
73-Ta-177



MAT 7316

Neutron Absorption  
293 Kelvin Cross Sections

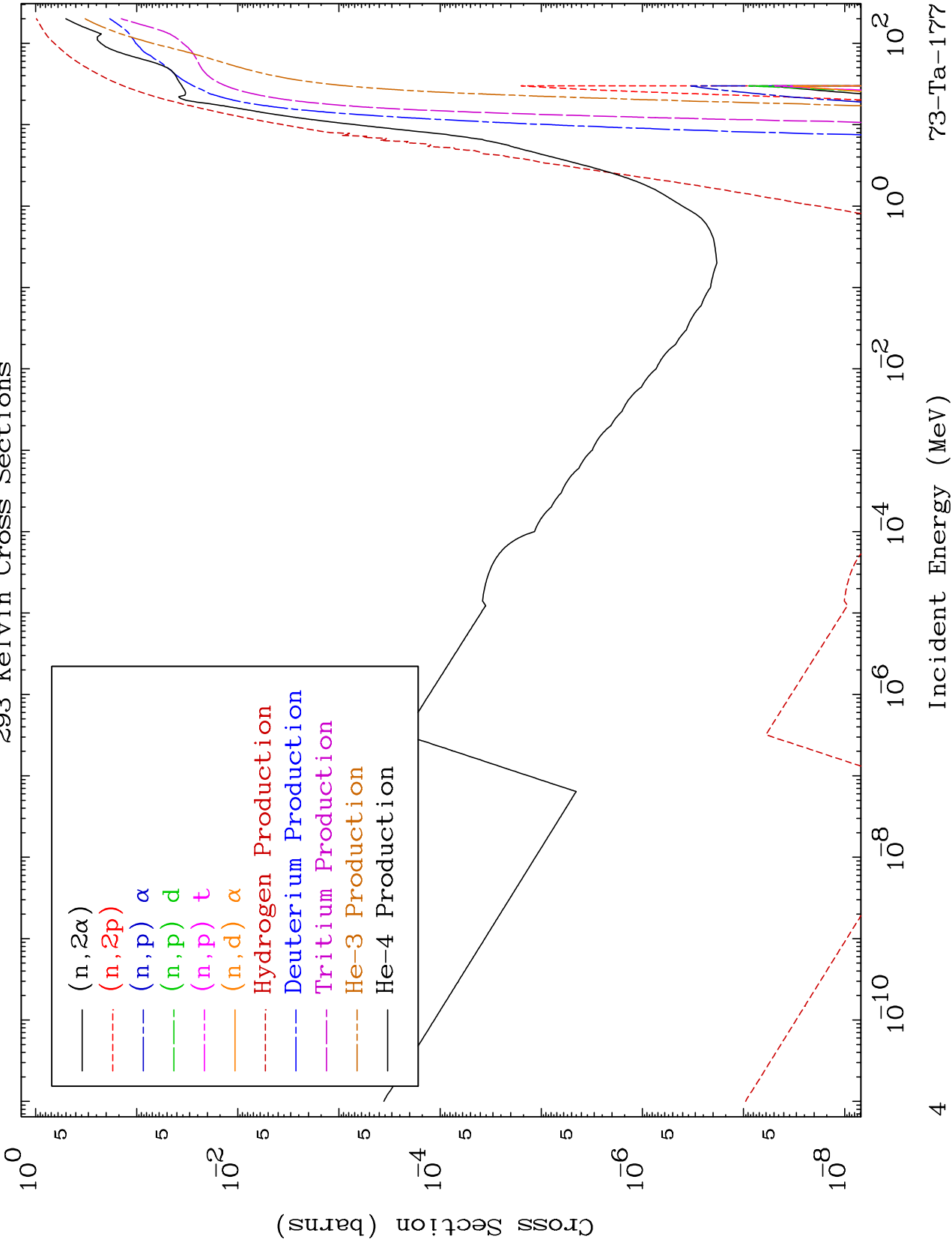
<sup>73</sup>Ta-177



MAT 7316

Neutron Absorption  
293 Kelvin Cross Sections

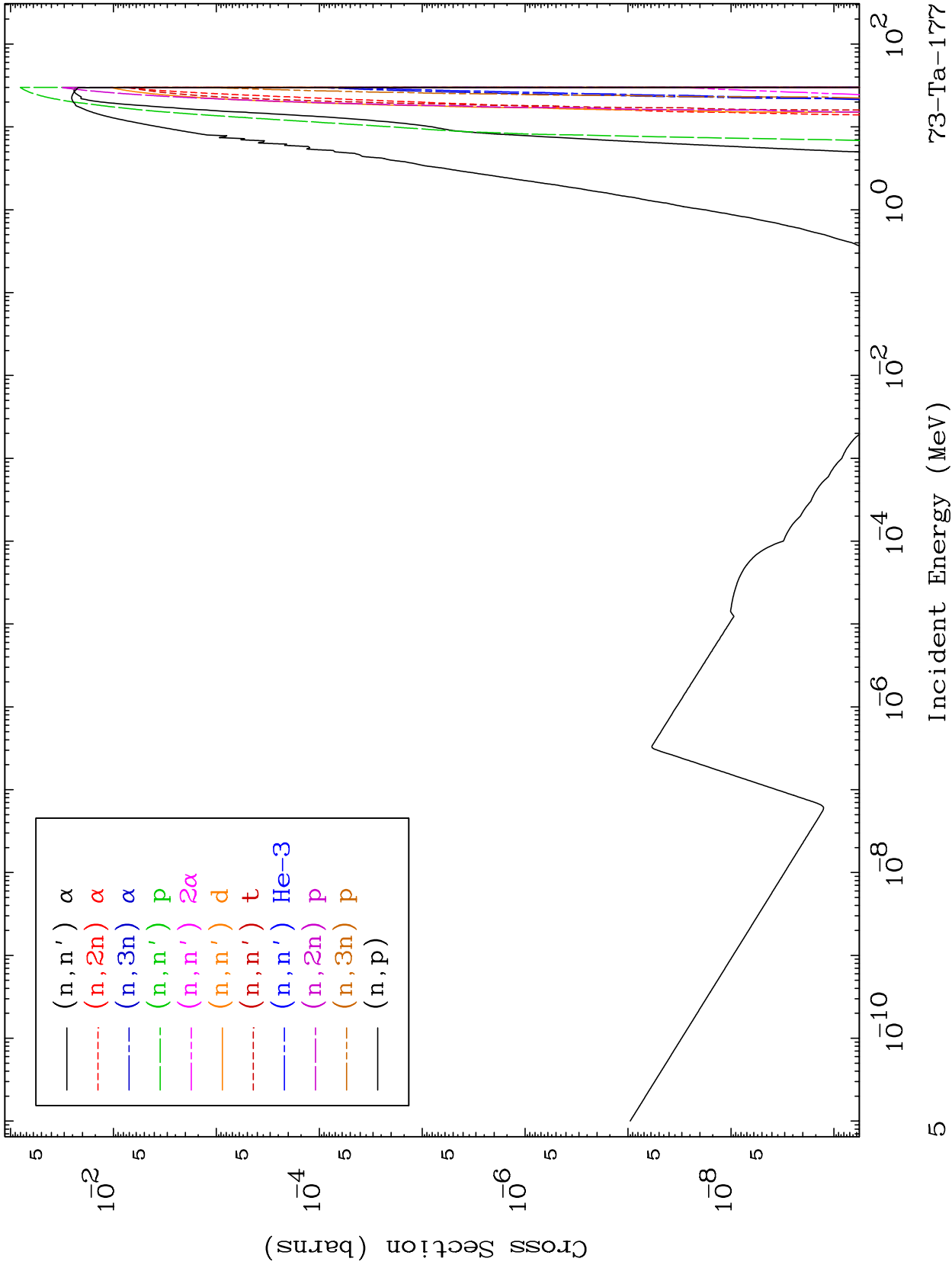
73-Ta-177



MAT 7316

Charged Particle  
293 Kelvin Cross Sections

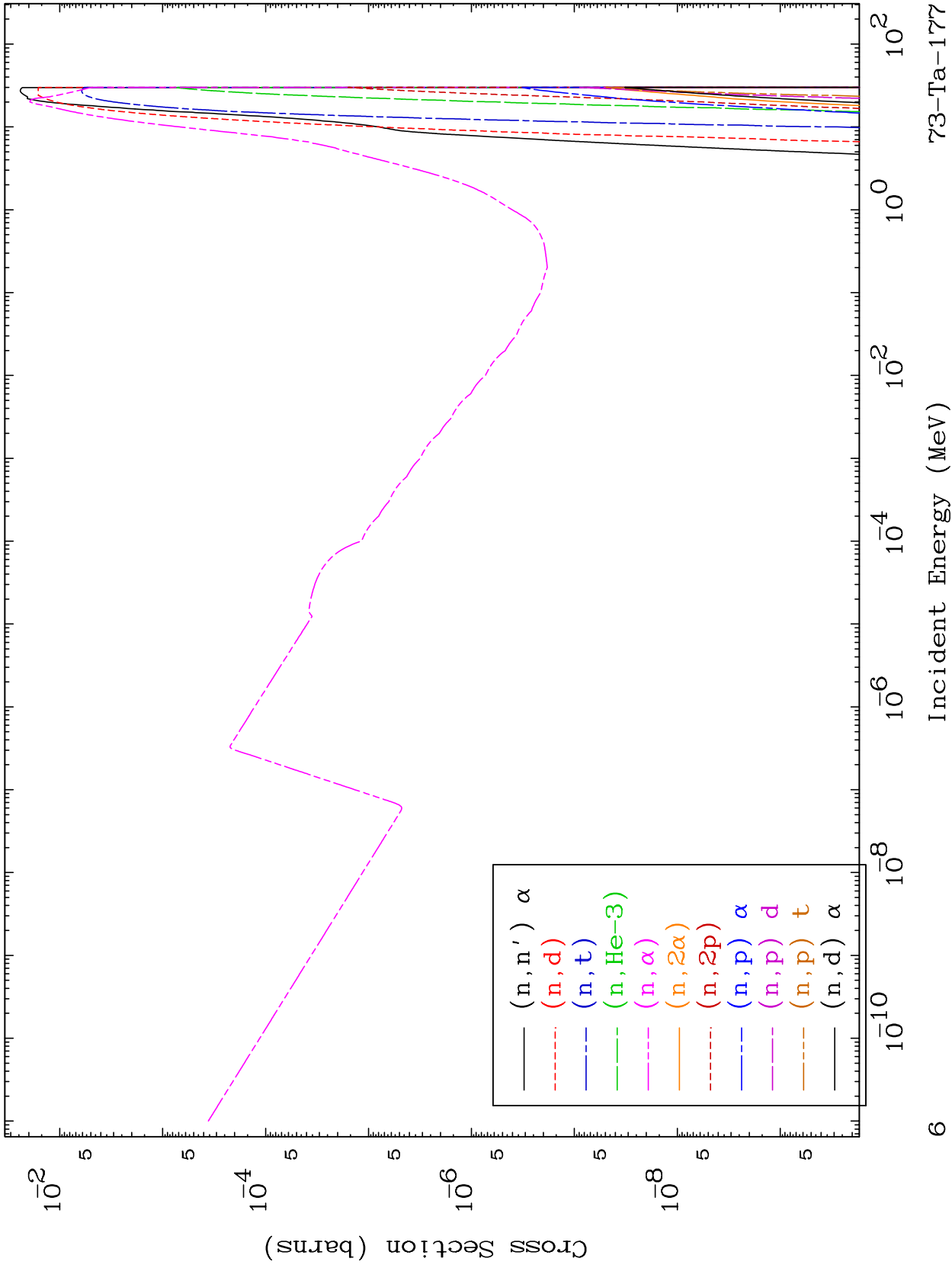
73-Ta-177



MAT 7316

Charged Particle  
293 Kelvin Cross Sections

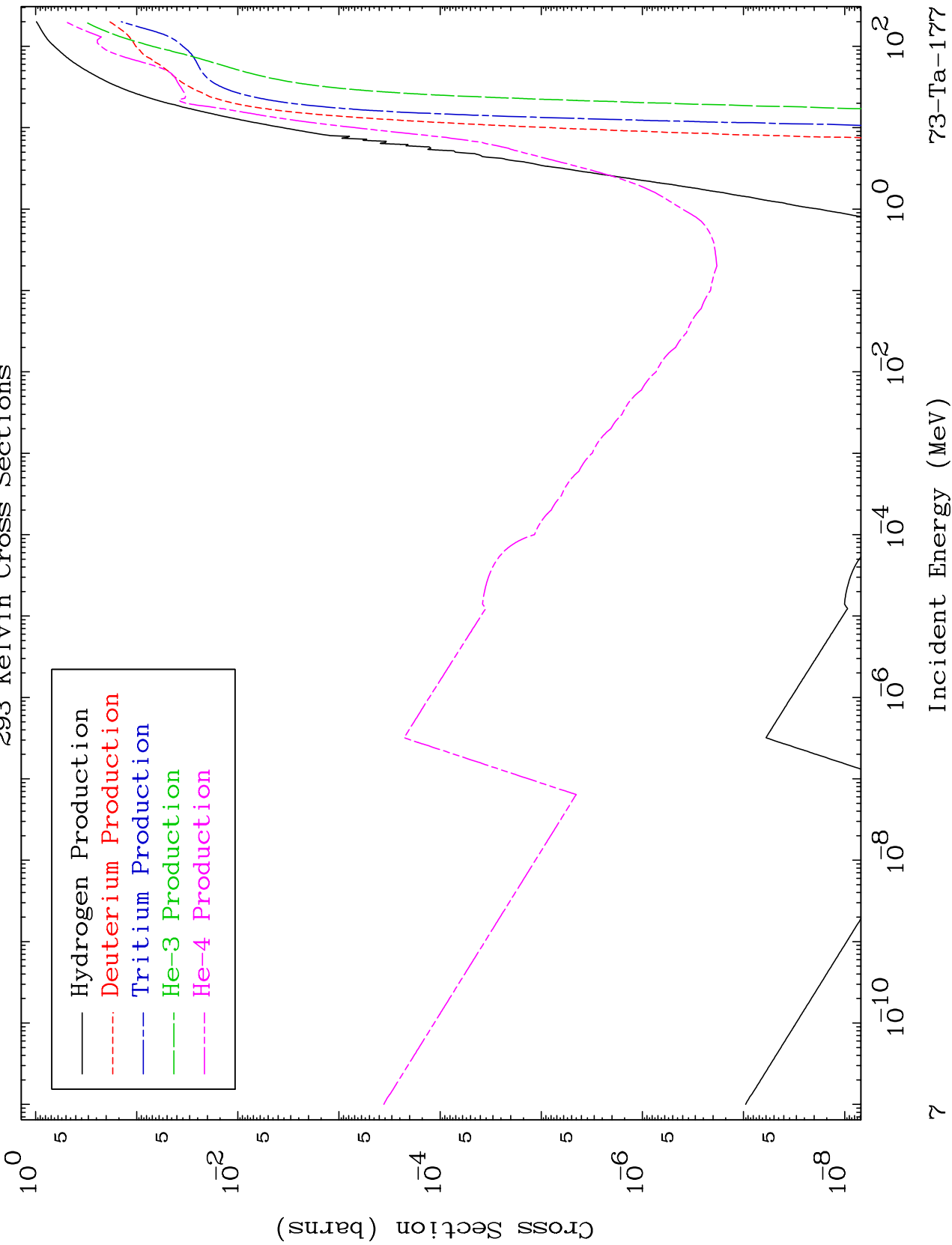
73-Ta-177



MAT 7316

Particle Production  
293 Kelvin Cross Sections

73-Ta-177

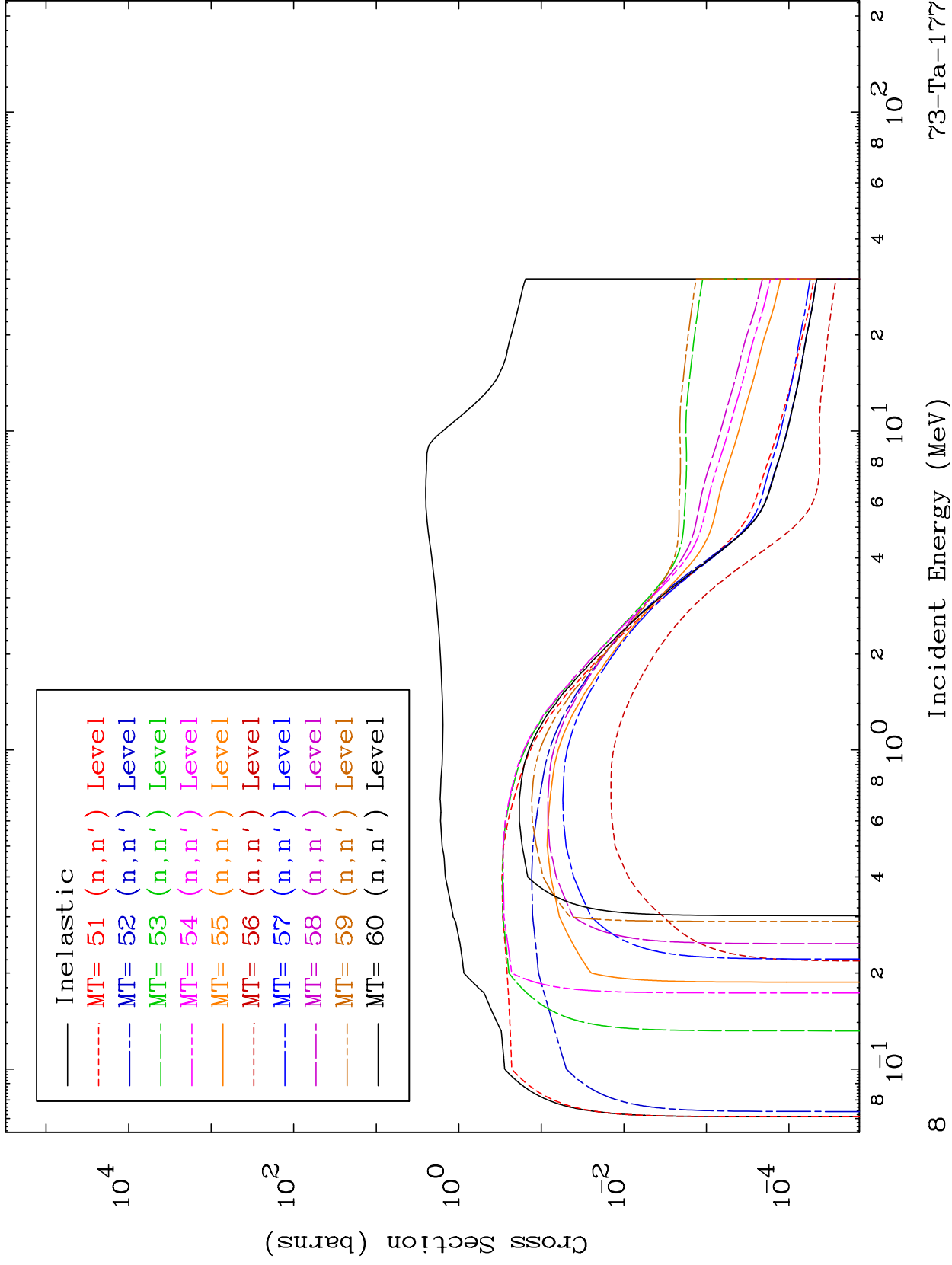




MAT 7316

(n,n') Levels  
293 Kelvin Cross Sections

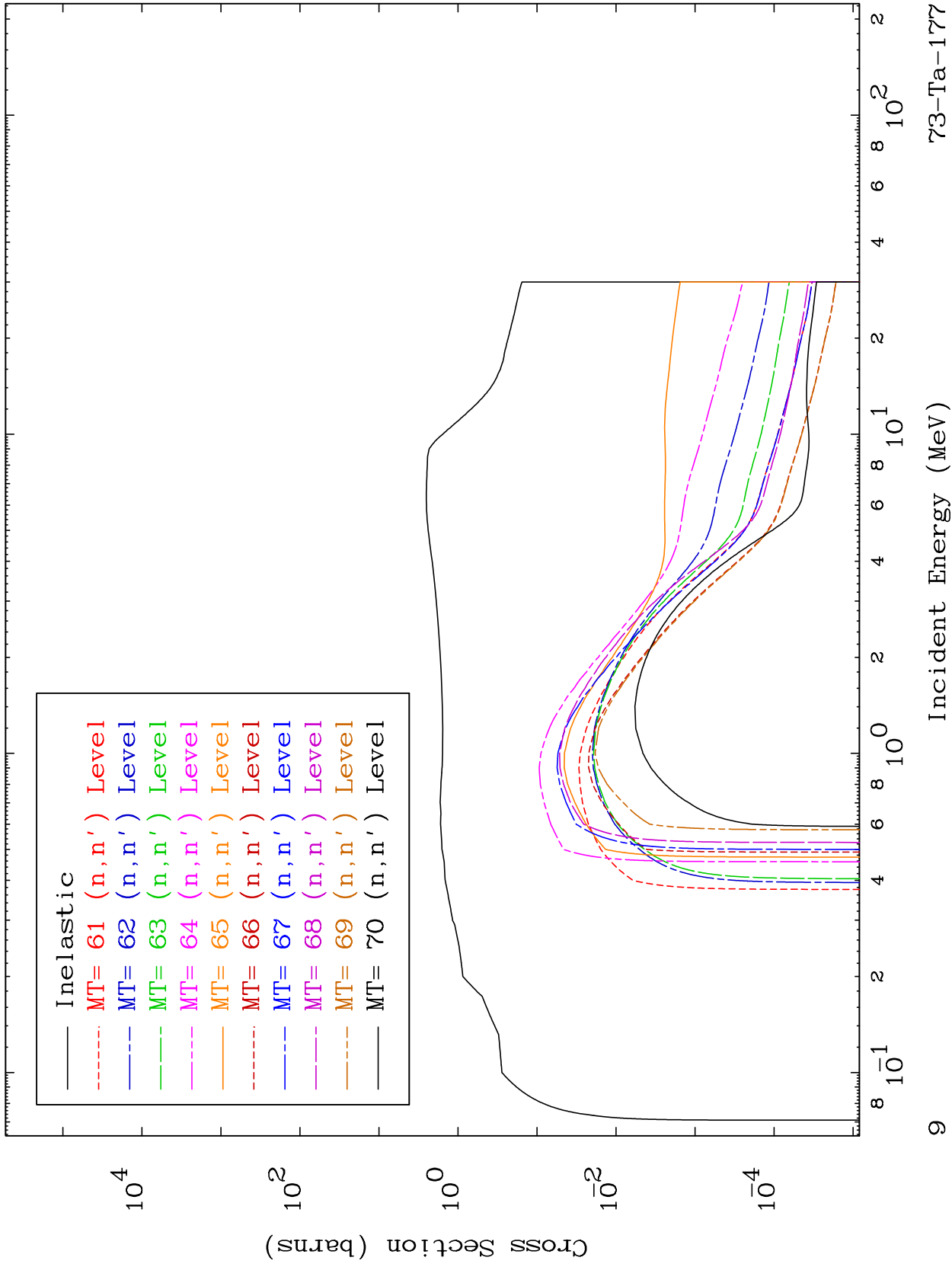
73-Ta-177



MAT 7316

(n,n') Levels  
293 Kelvin Cross Sections

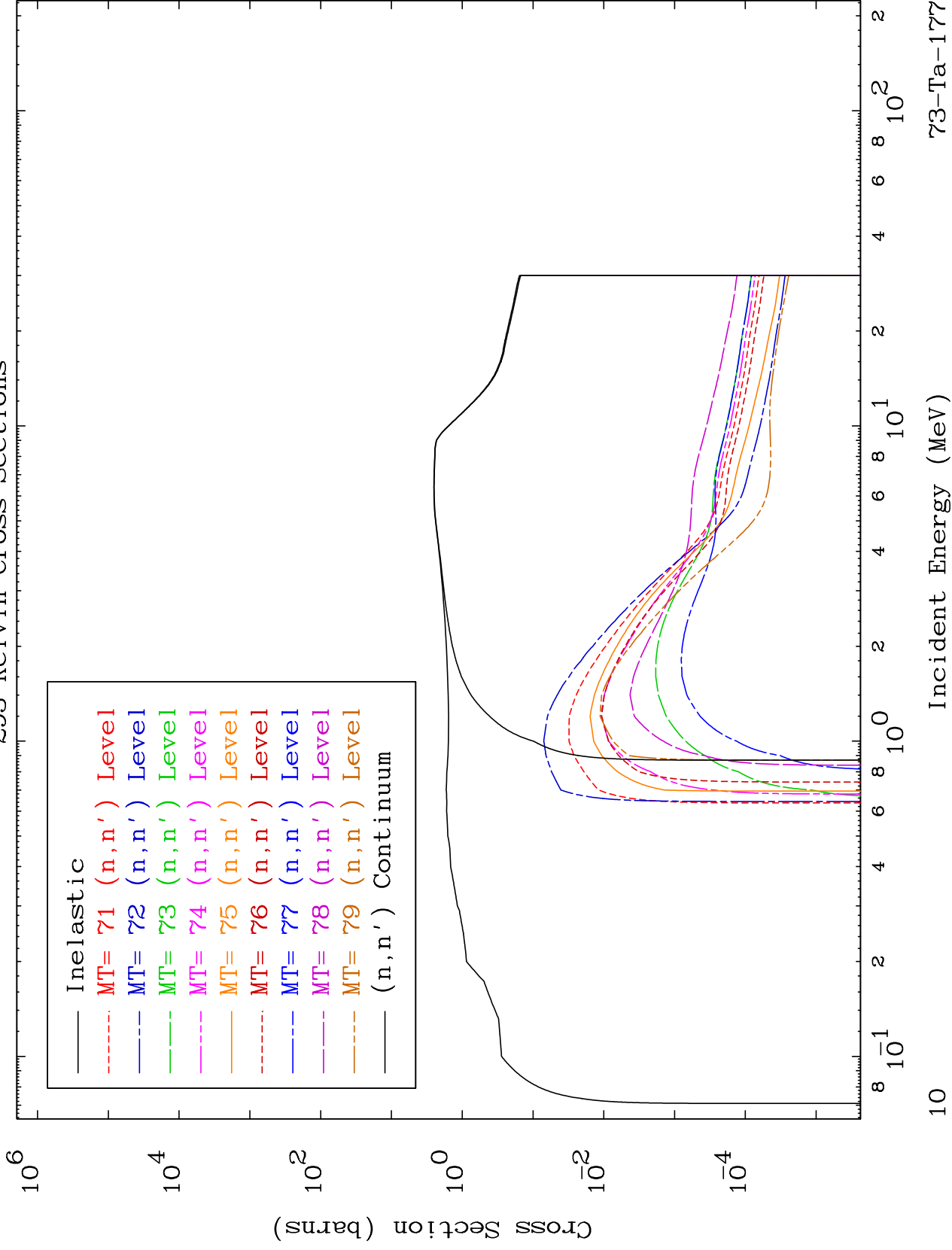
73-Ta-177



MAT 7316

(n,n') Levels  
293 Kelvin Cross Sections

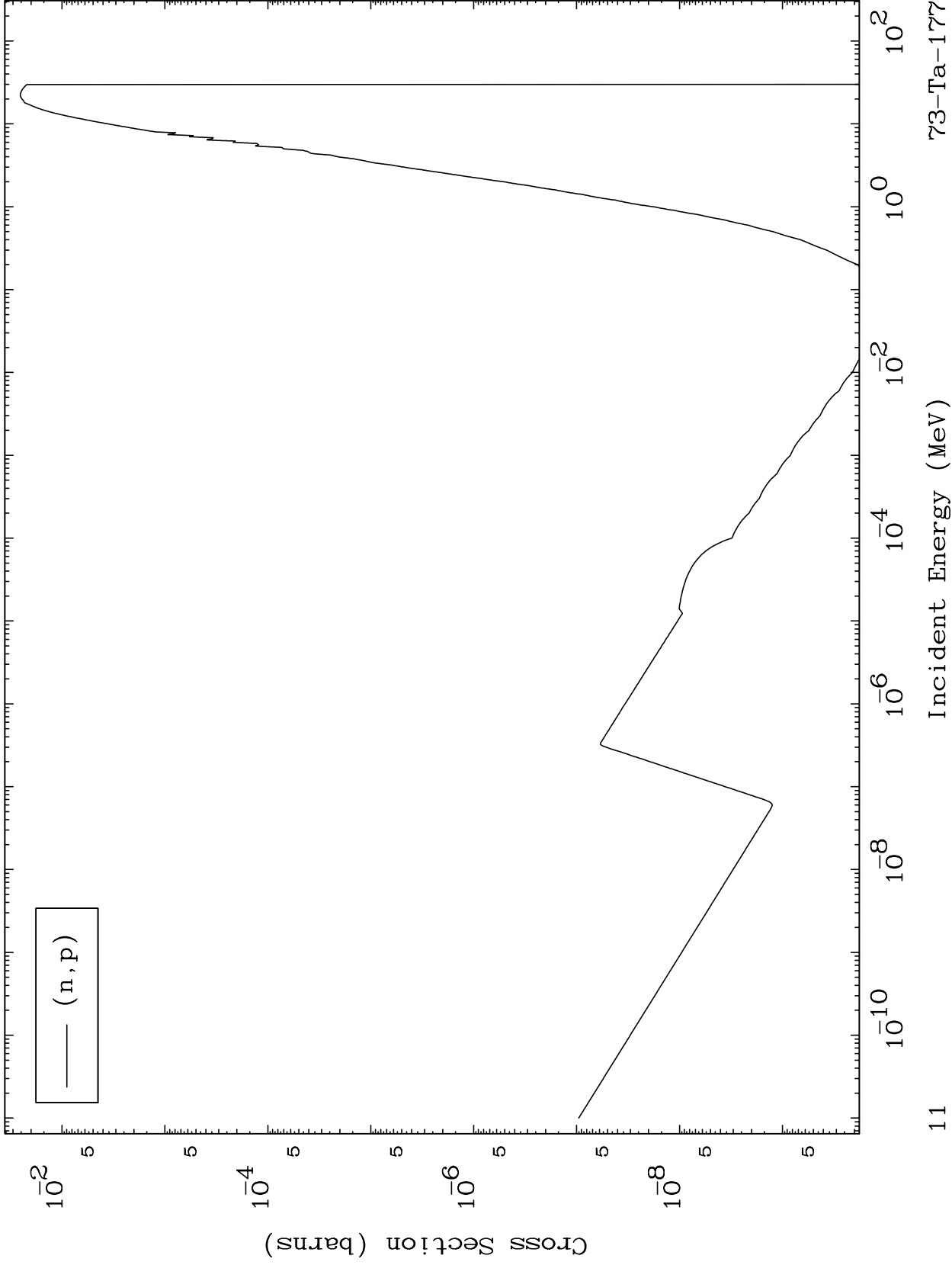
73-Ta-177



MAT 7316

(n,p) Levels  
293 Kelvin Cross Sections

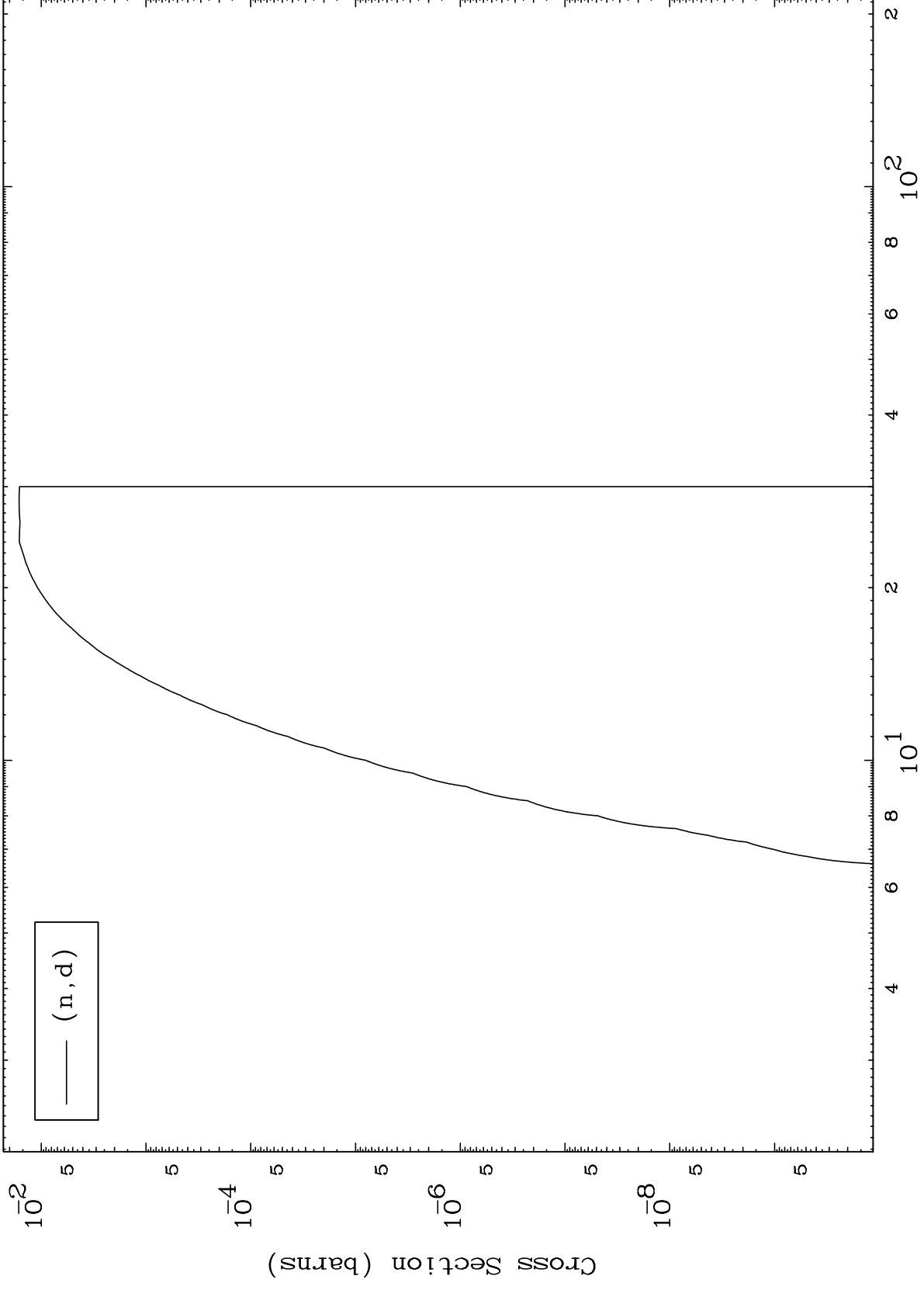
73-Ta-177



MAT 7316

(n,d) Levels  
293 Kelvin Cross Sections

<sup>73</sup>Ta-177



12

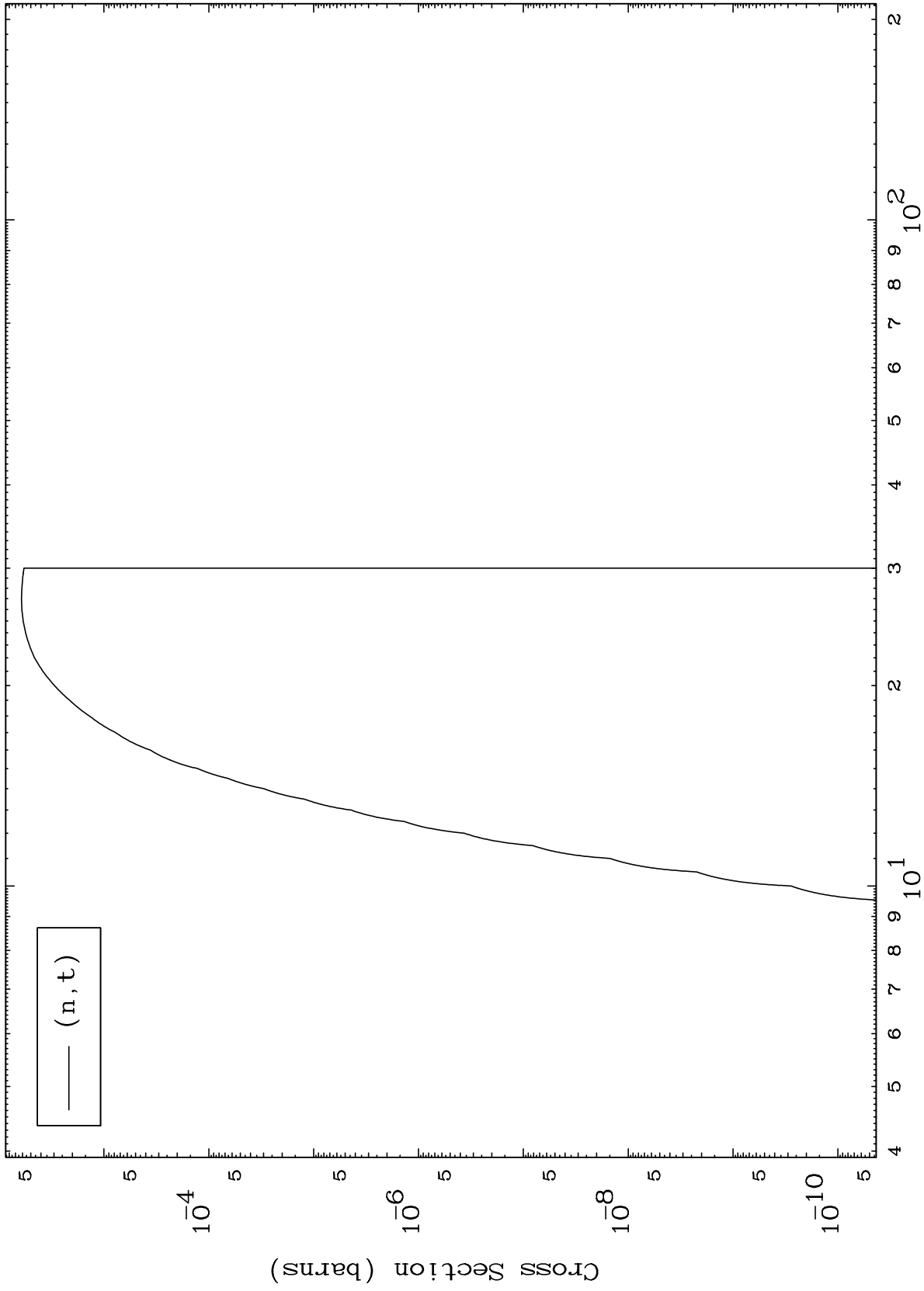
Incident Energy (MeV)

<sup>73</sup>Ta-177

MAT 7316

(n,t) Levels  
293 Kelvin Cross Sections

73-Ta-177



13

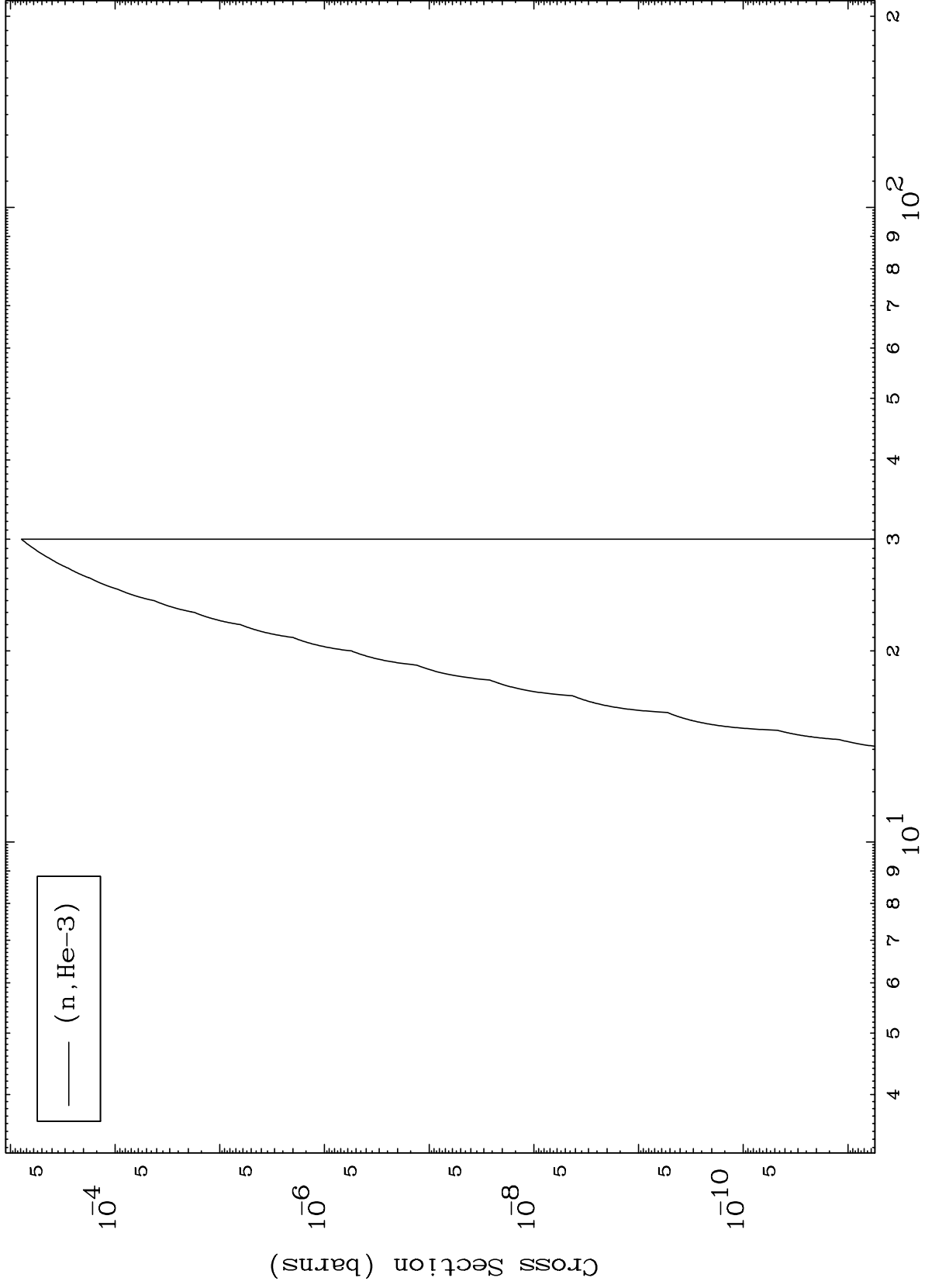
Incident Energy (MeV)

73-Ta-177

MAT 7316

(n,He3) Levels  
293 Kelvin Cross Sections

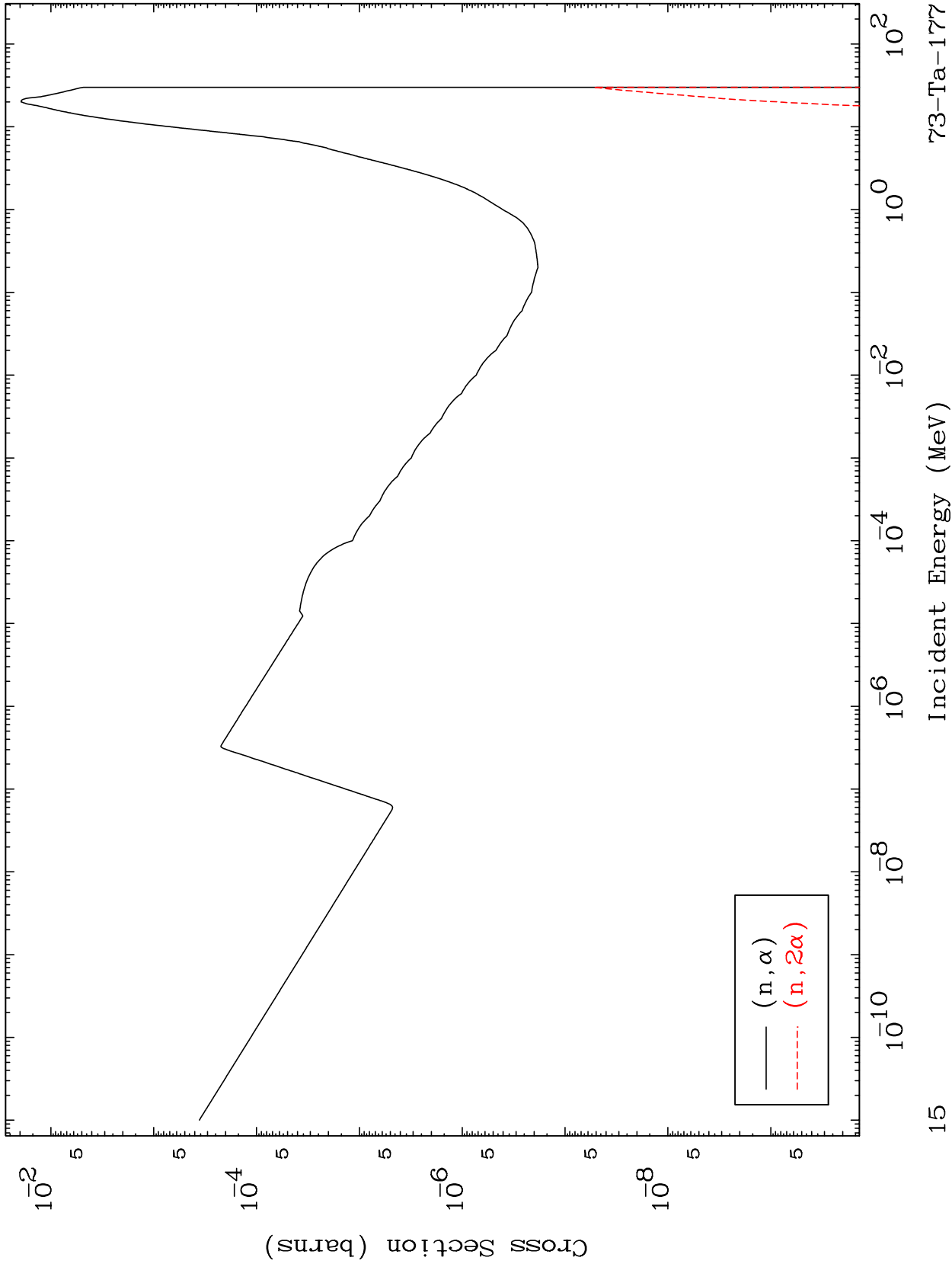
73-Ta-177



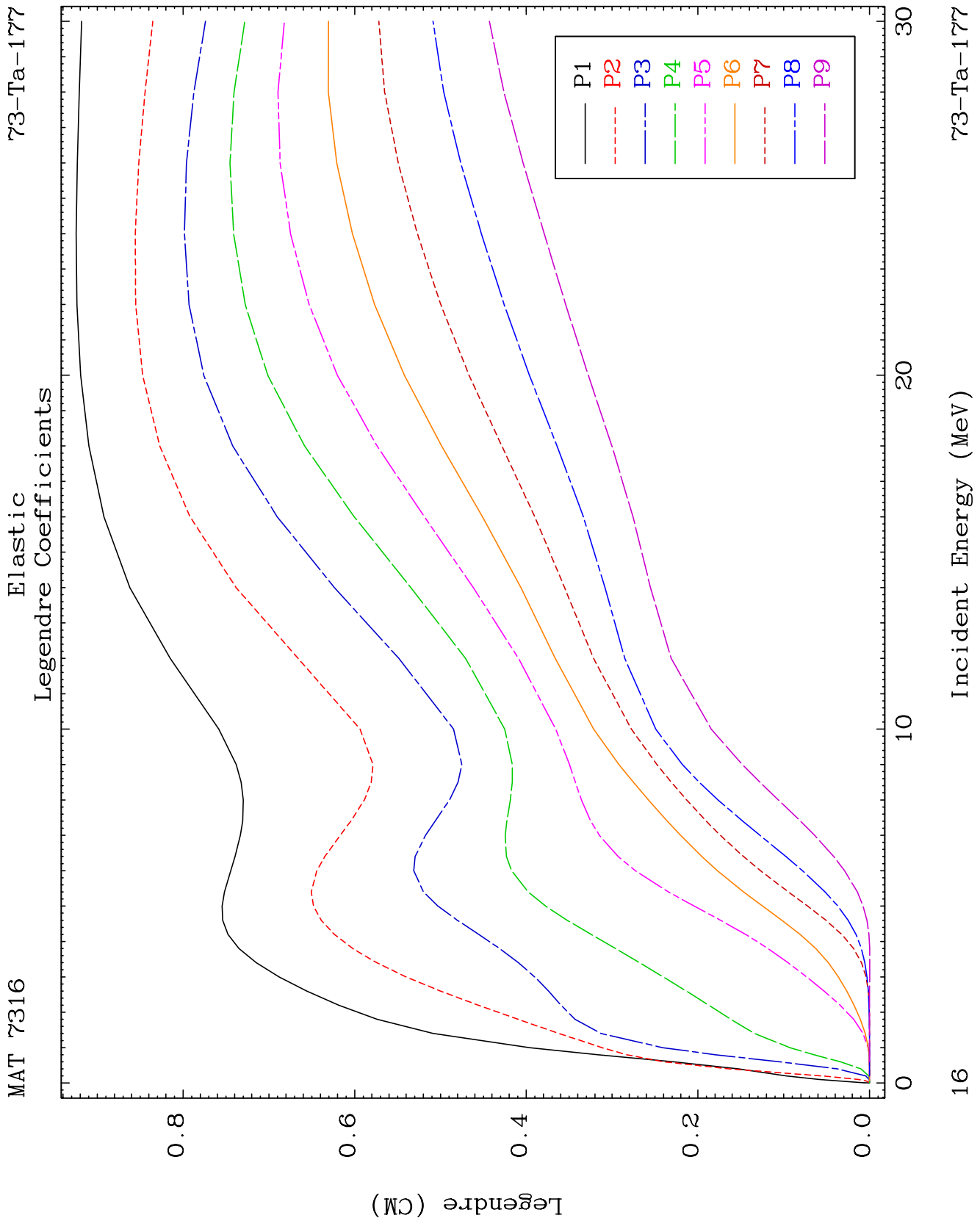
MAT 7316

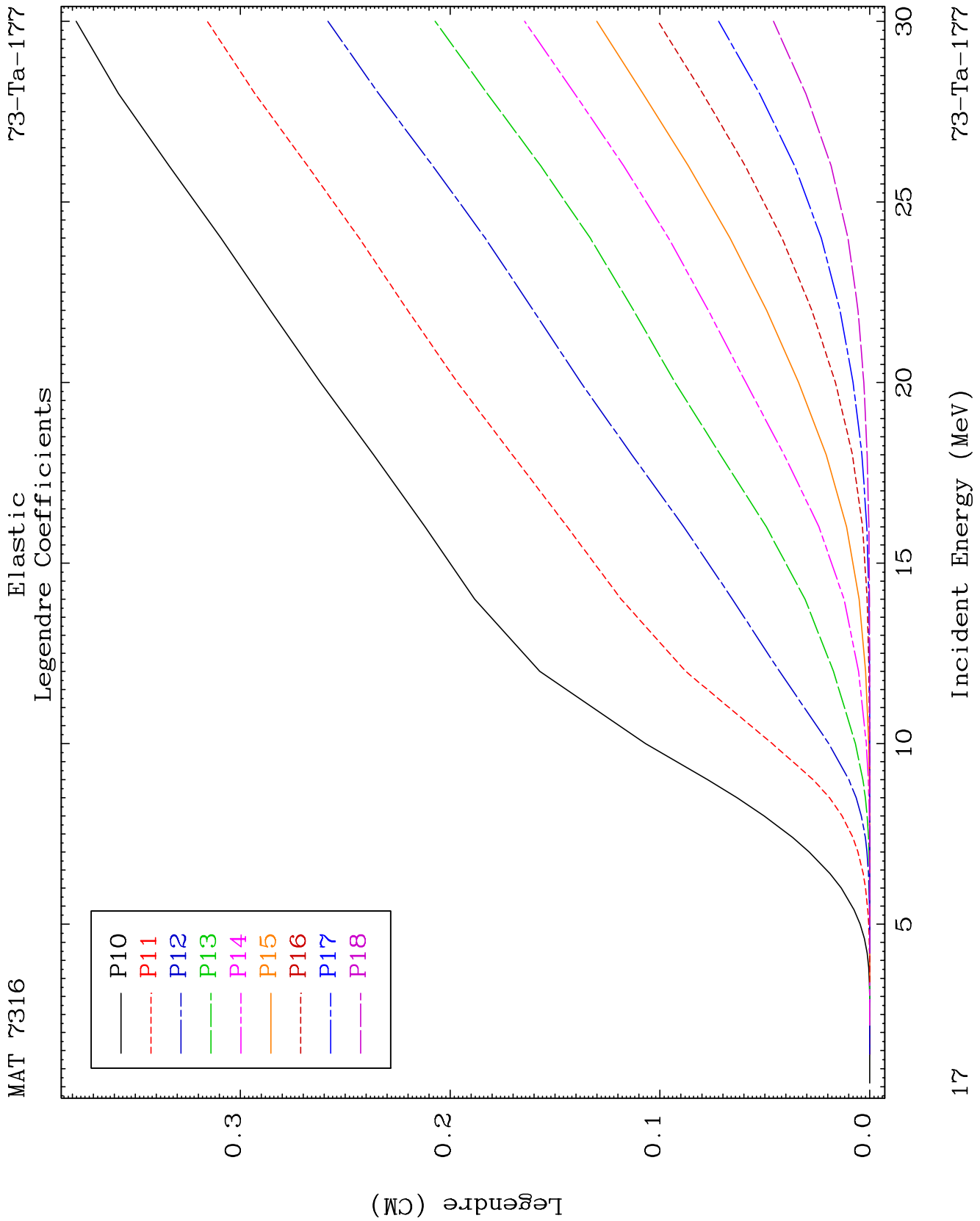
(n,  $\alpha$ ) Levels  
293 Kelvin Cross Sections

73-Ta-177





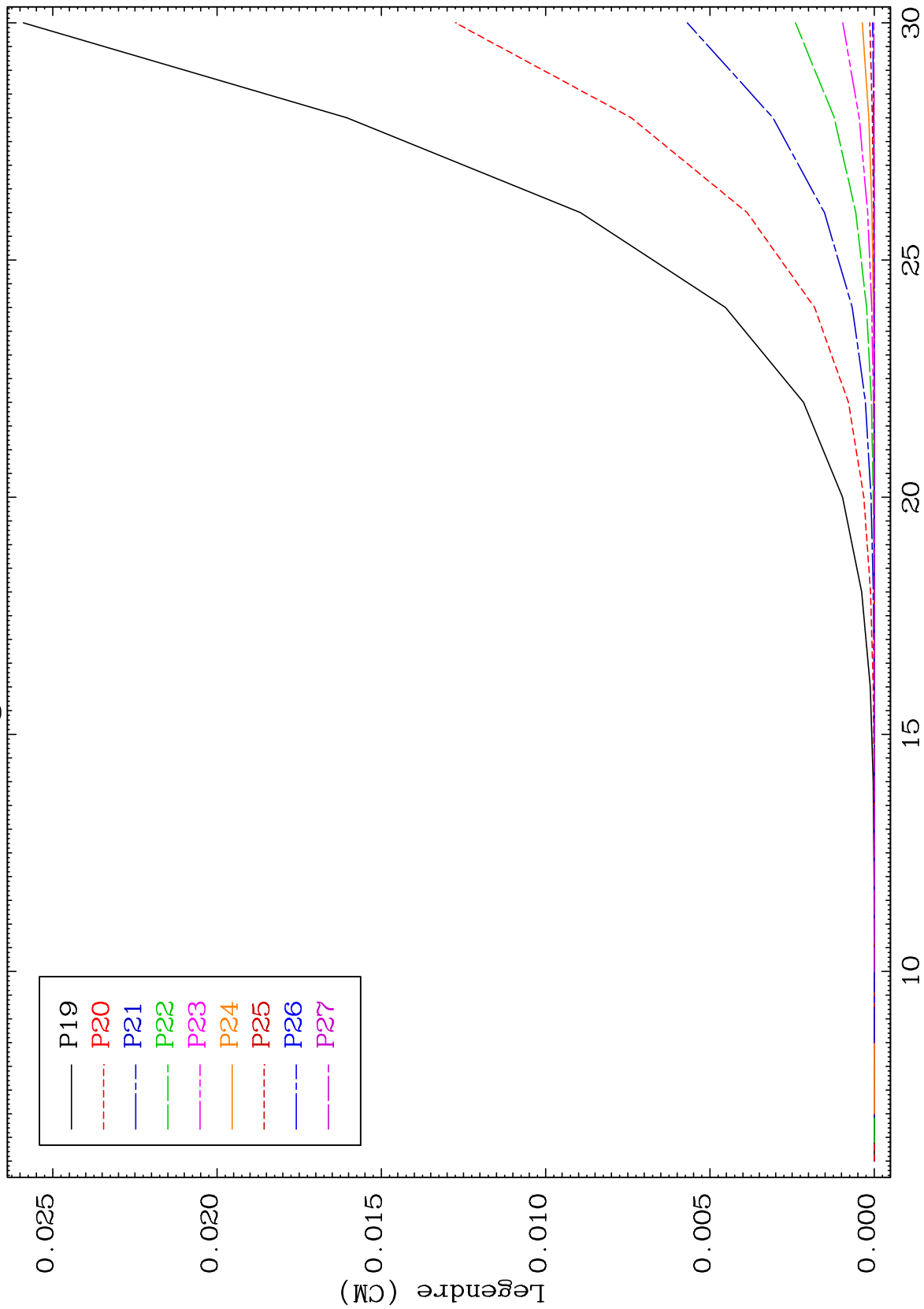




MAT 7316

Elastic Legendre Coefficients

73-Ta-177



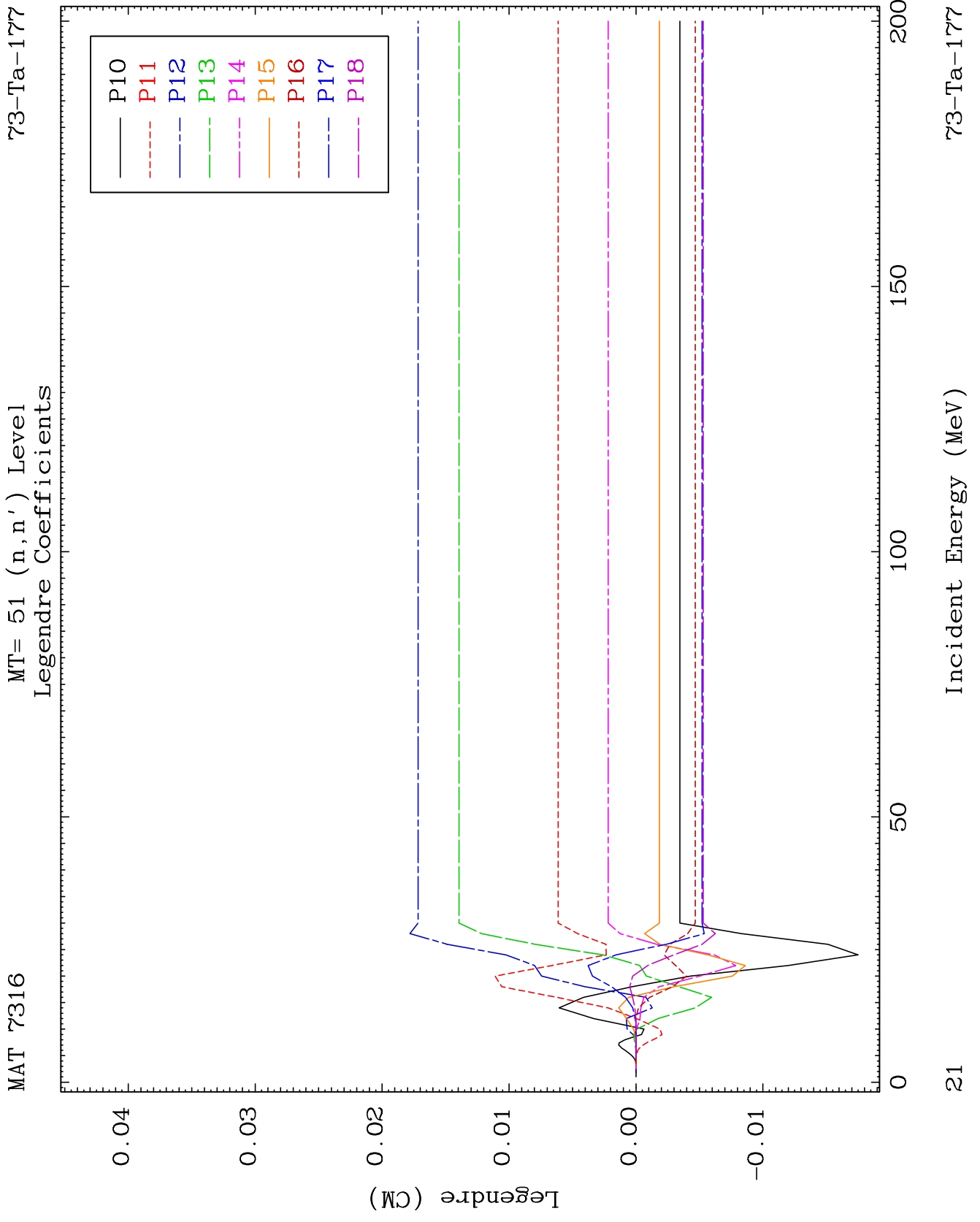
18

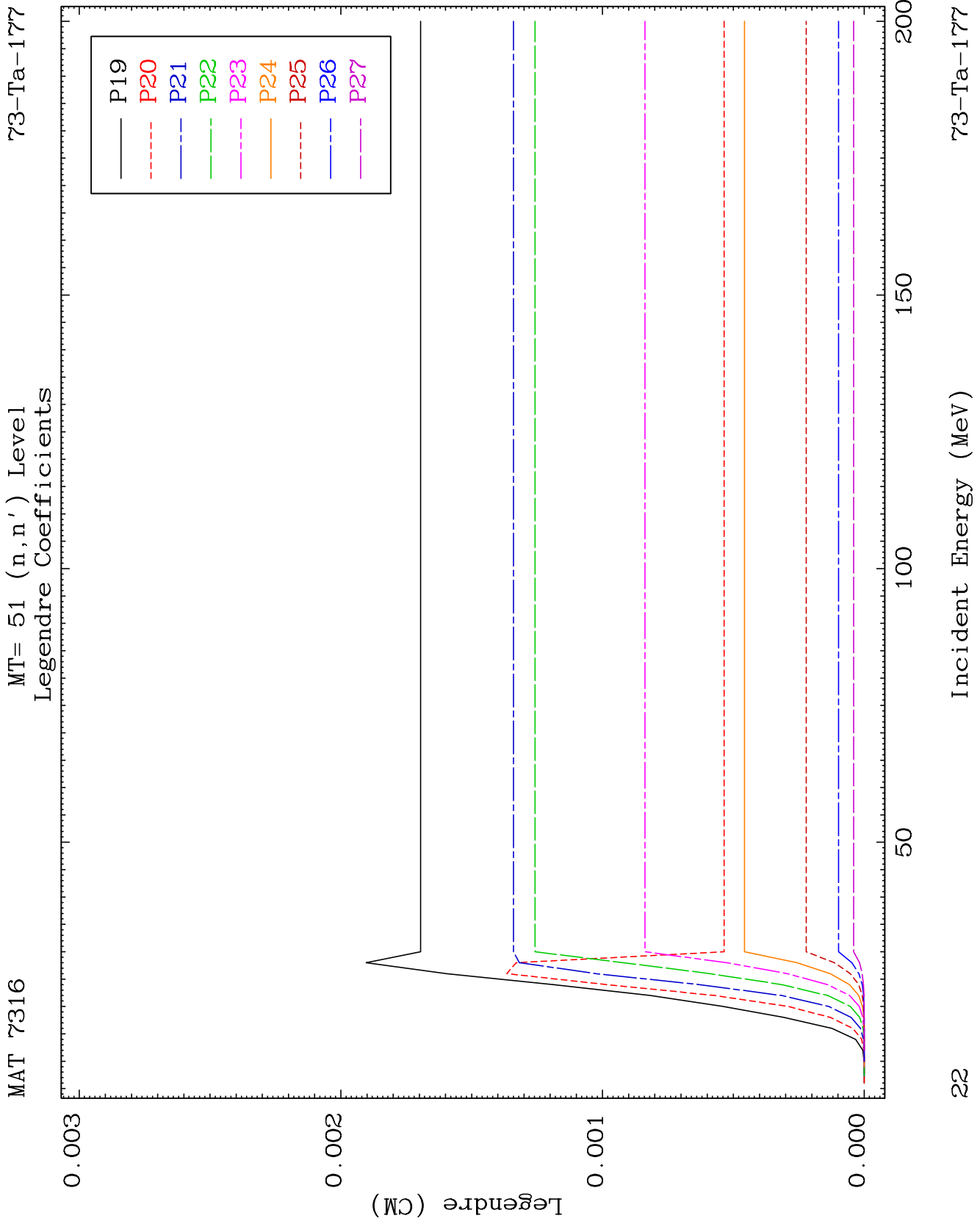
Incident Energy (MeV)

73-Ta-177





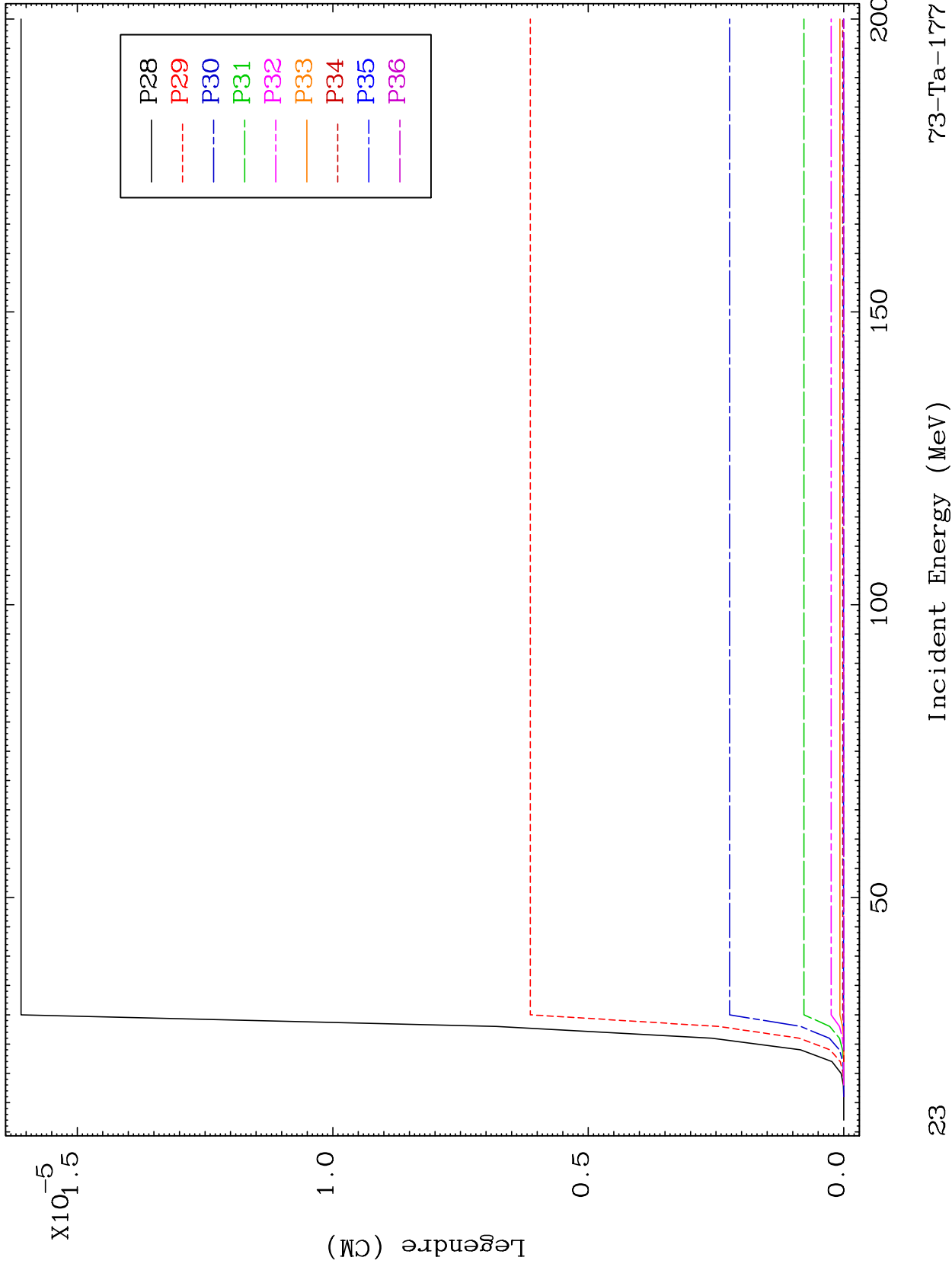




MAT 7316

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

73-Ta-177



23

Incident Energy (MeV)

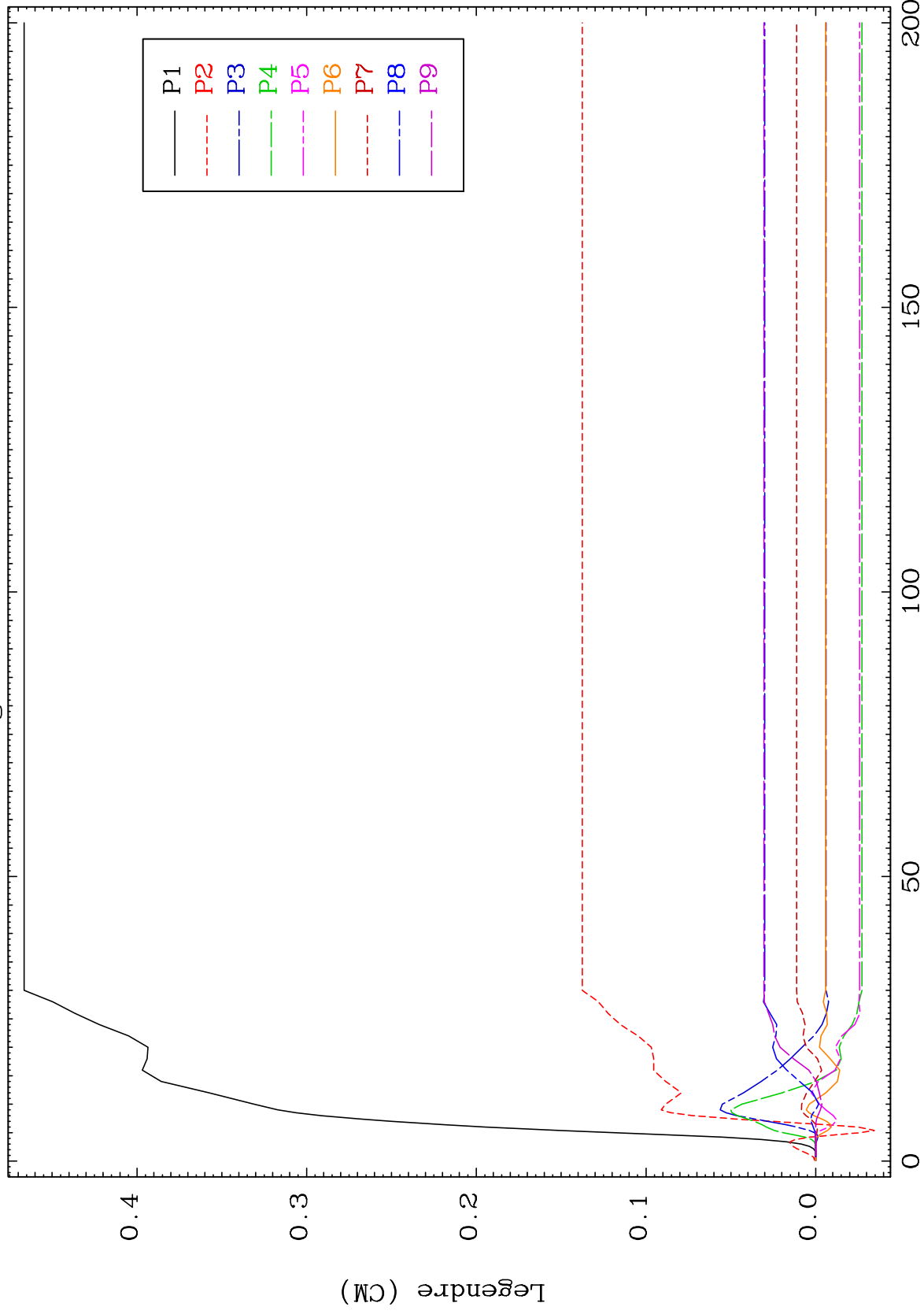
73-Ta-177



MAT 7316

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

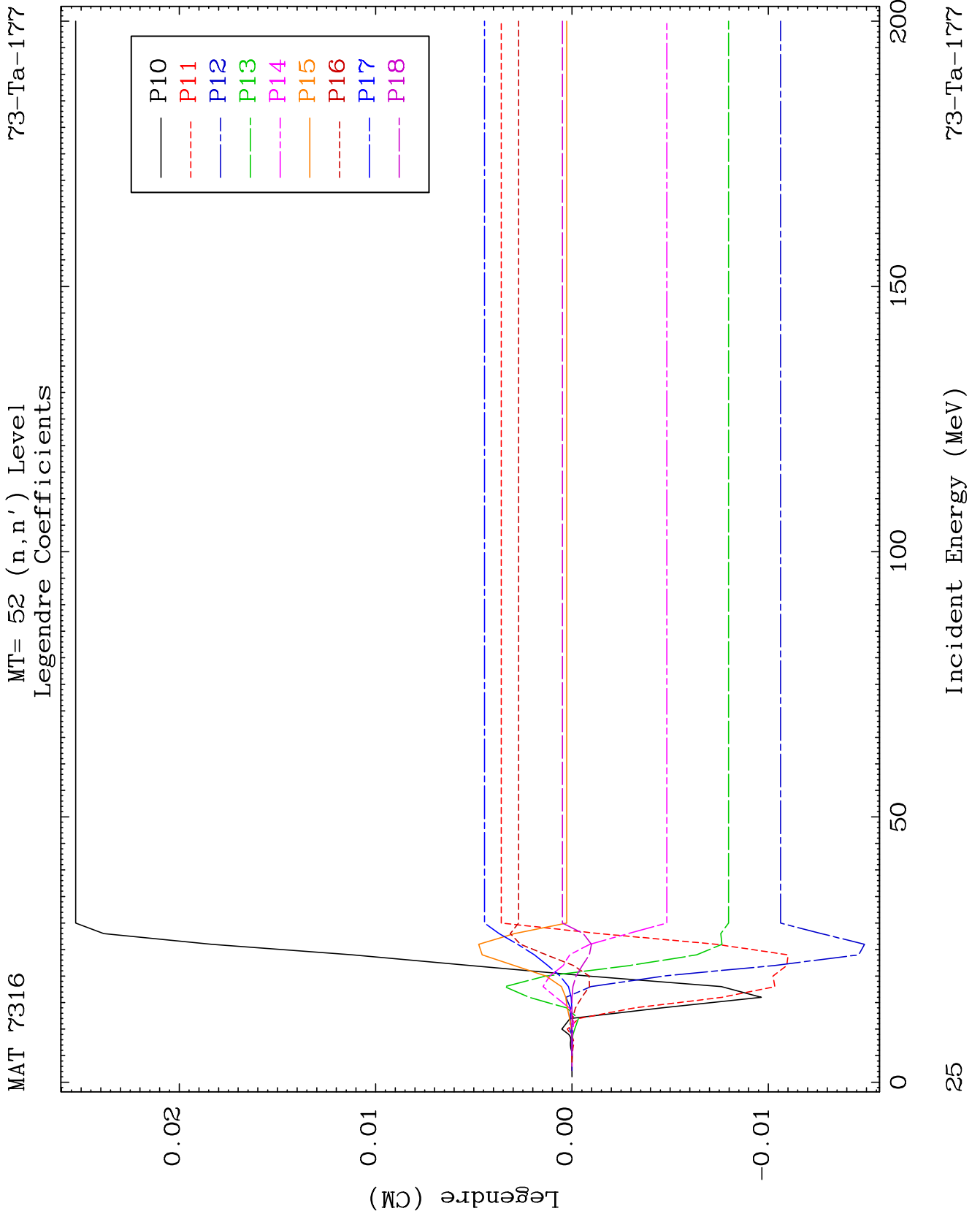
<sup>73</sup>Ta-177



24

Incident Energy (MeV)

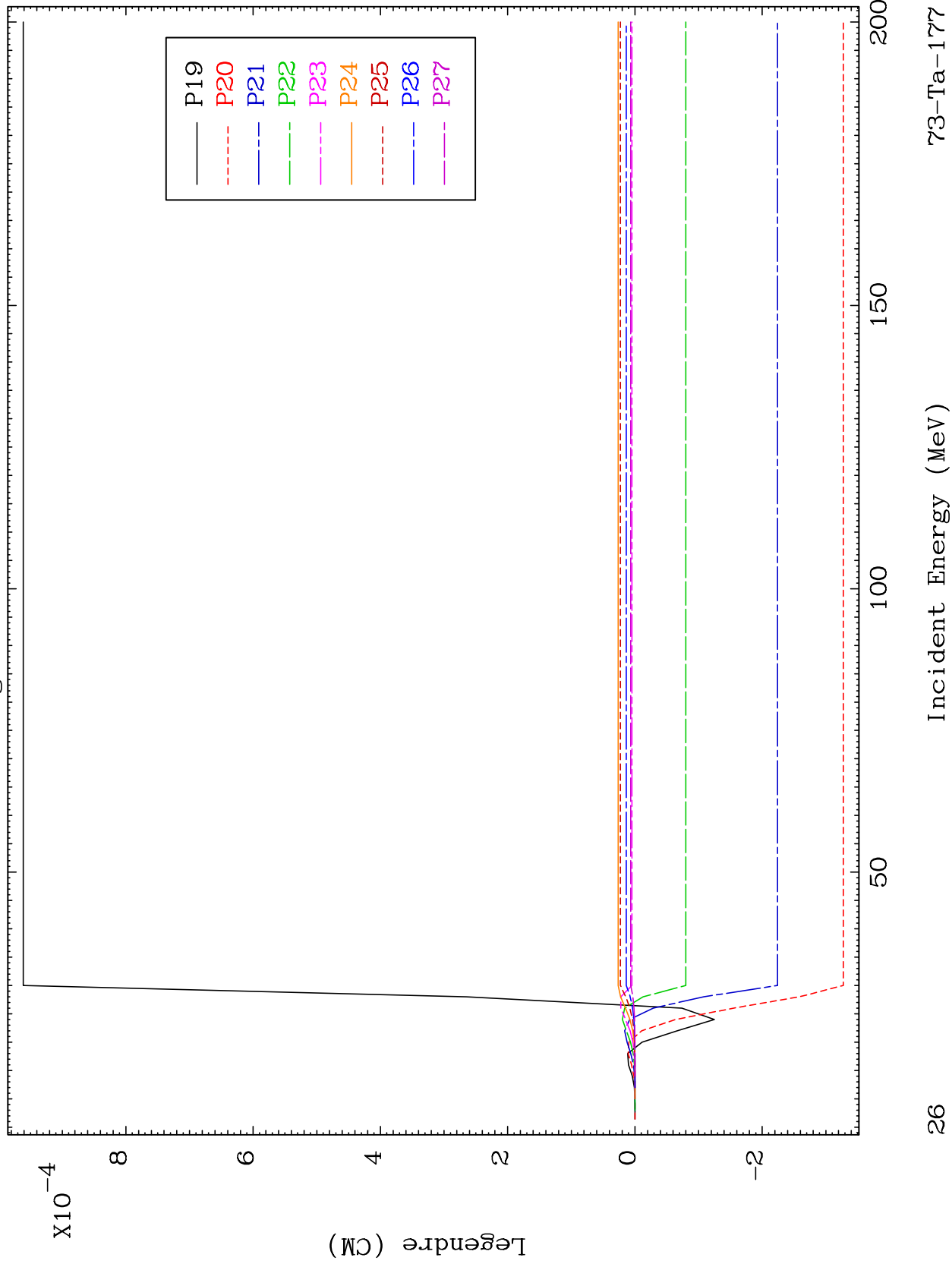
<sup>73</sup>Ta-177



MAT 7316

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

73-Ta-177



26

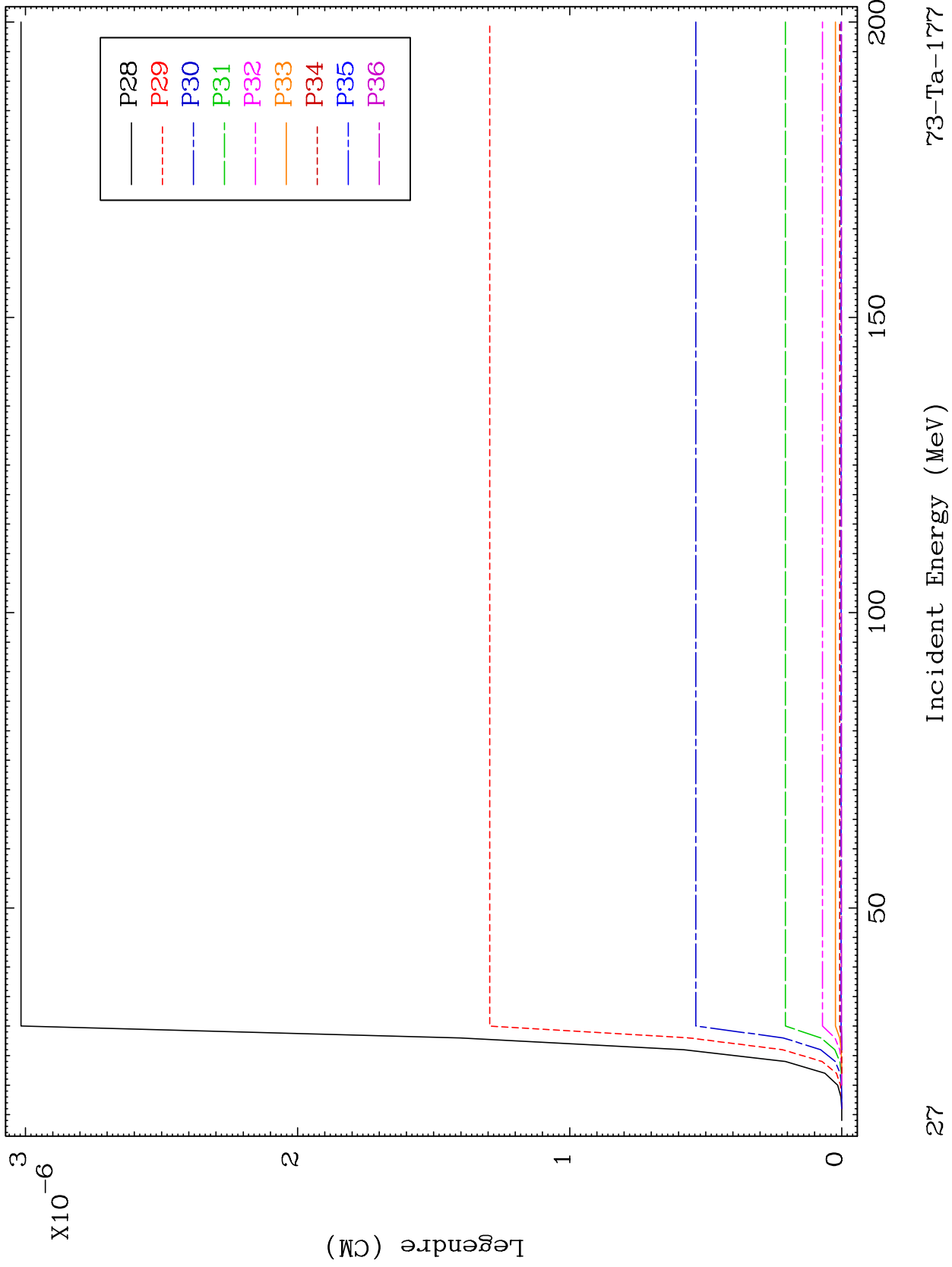
Incident Energy (MeV)

73-Ta-177

MAT 7316

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

73-Ta-177



27

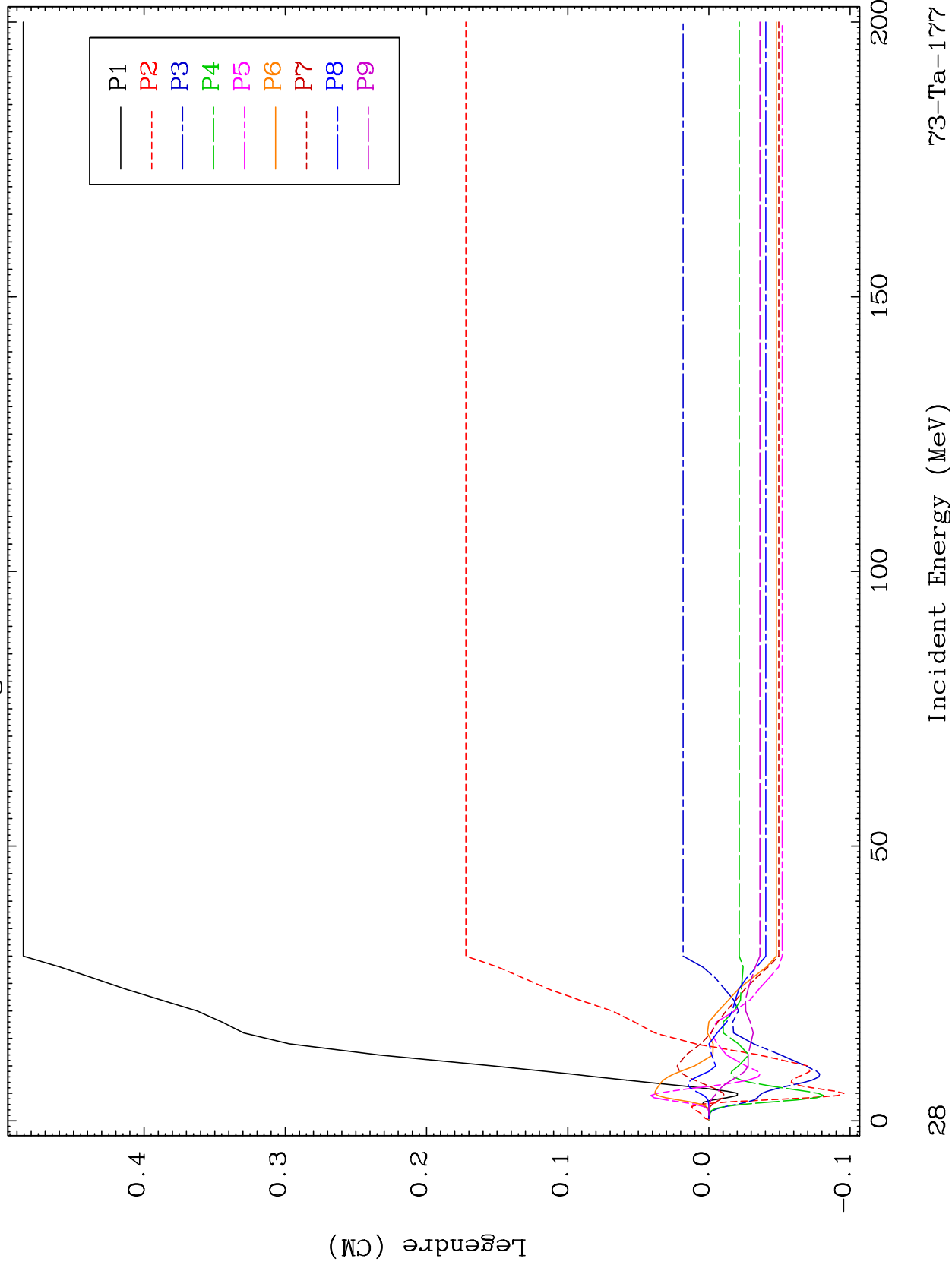
Incident Energy (MeV)

73-Ta-177

MAT 7316

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

<sup>73</sup>Ta-177



<sup>73</sup>Ta-177

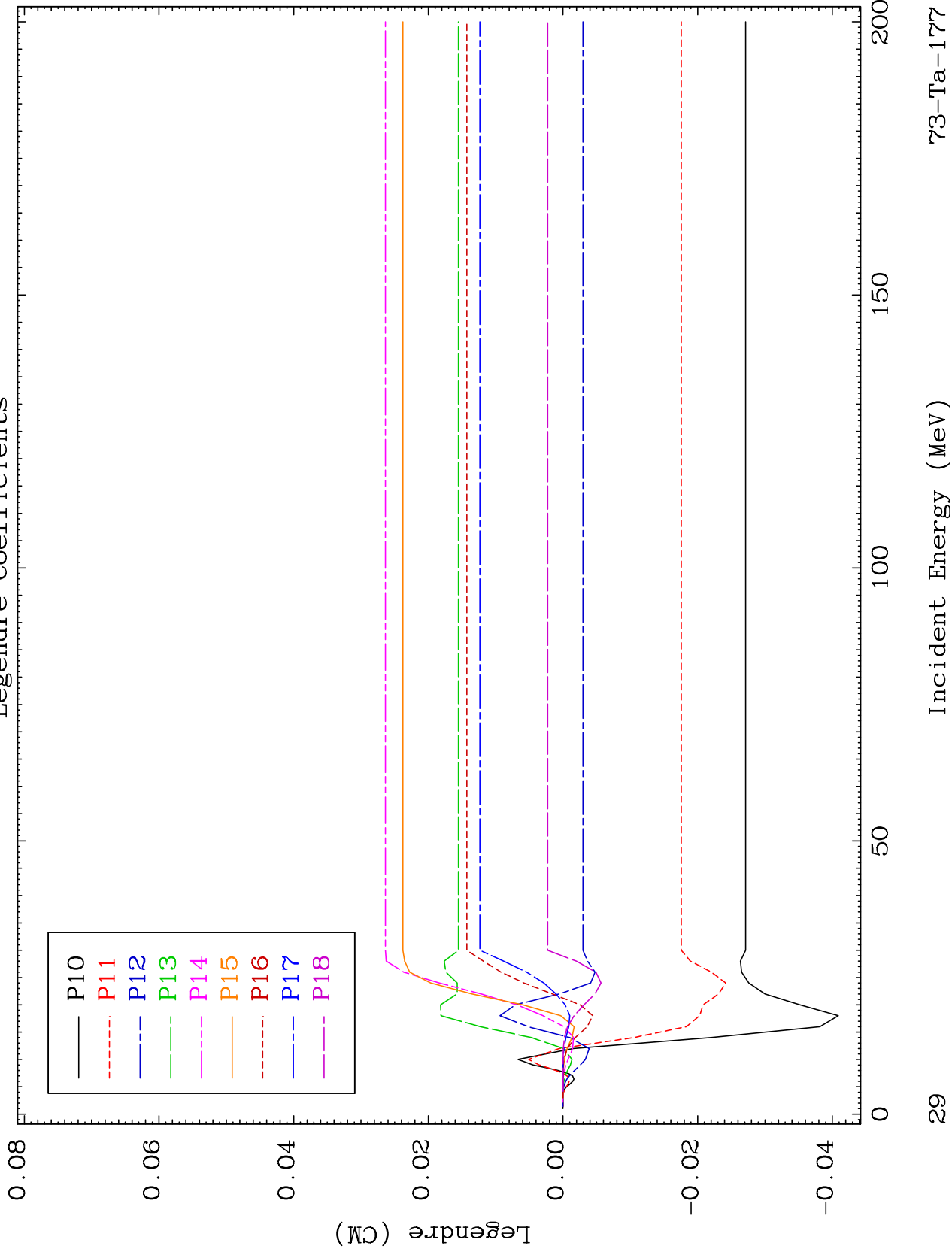
Incident Energy (MeV)

28

MAT 7316

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

<sup>73</sup>Ta-177

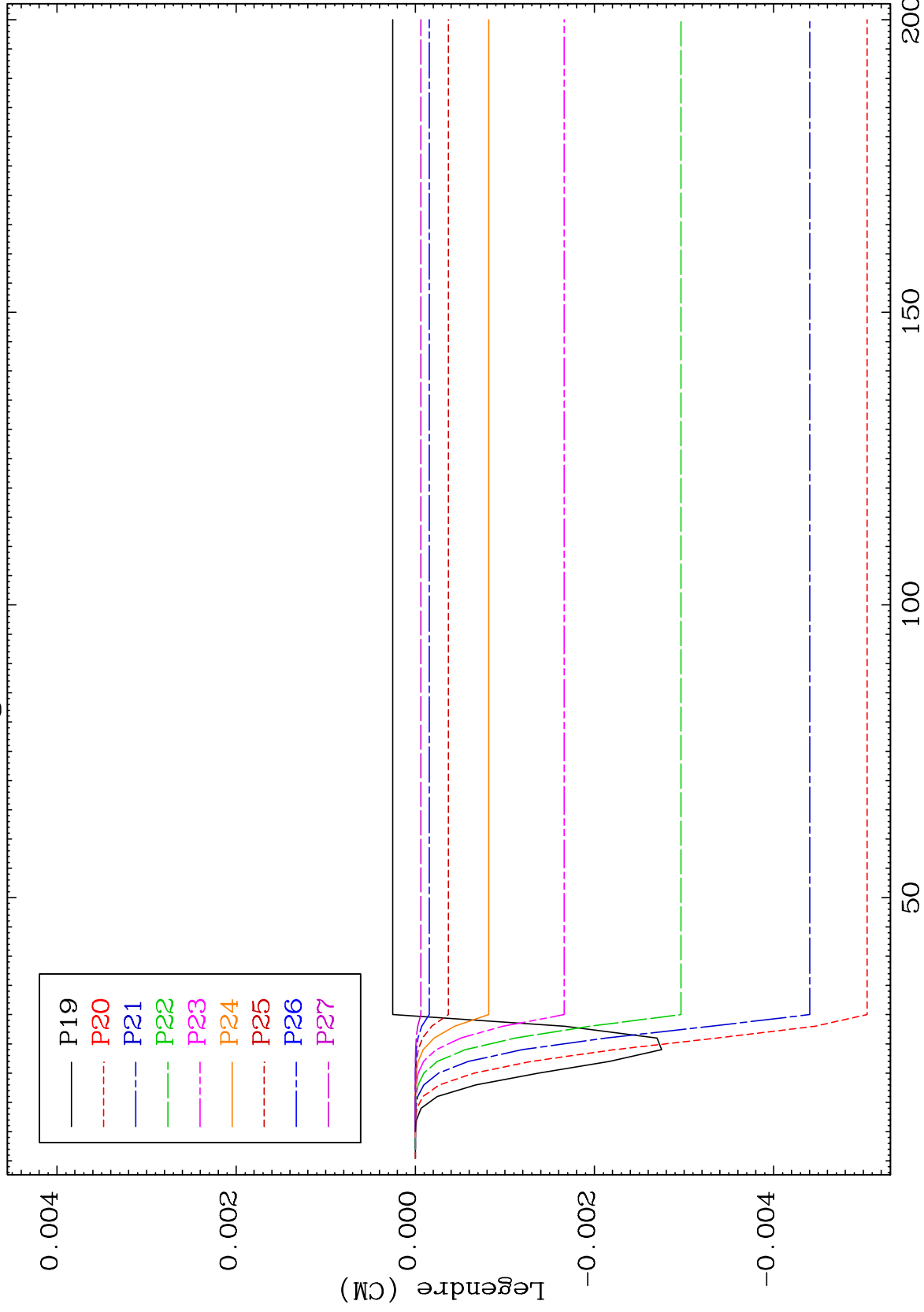


29

MAT 7316

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

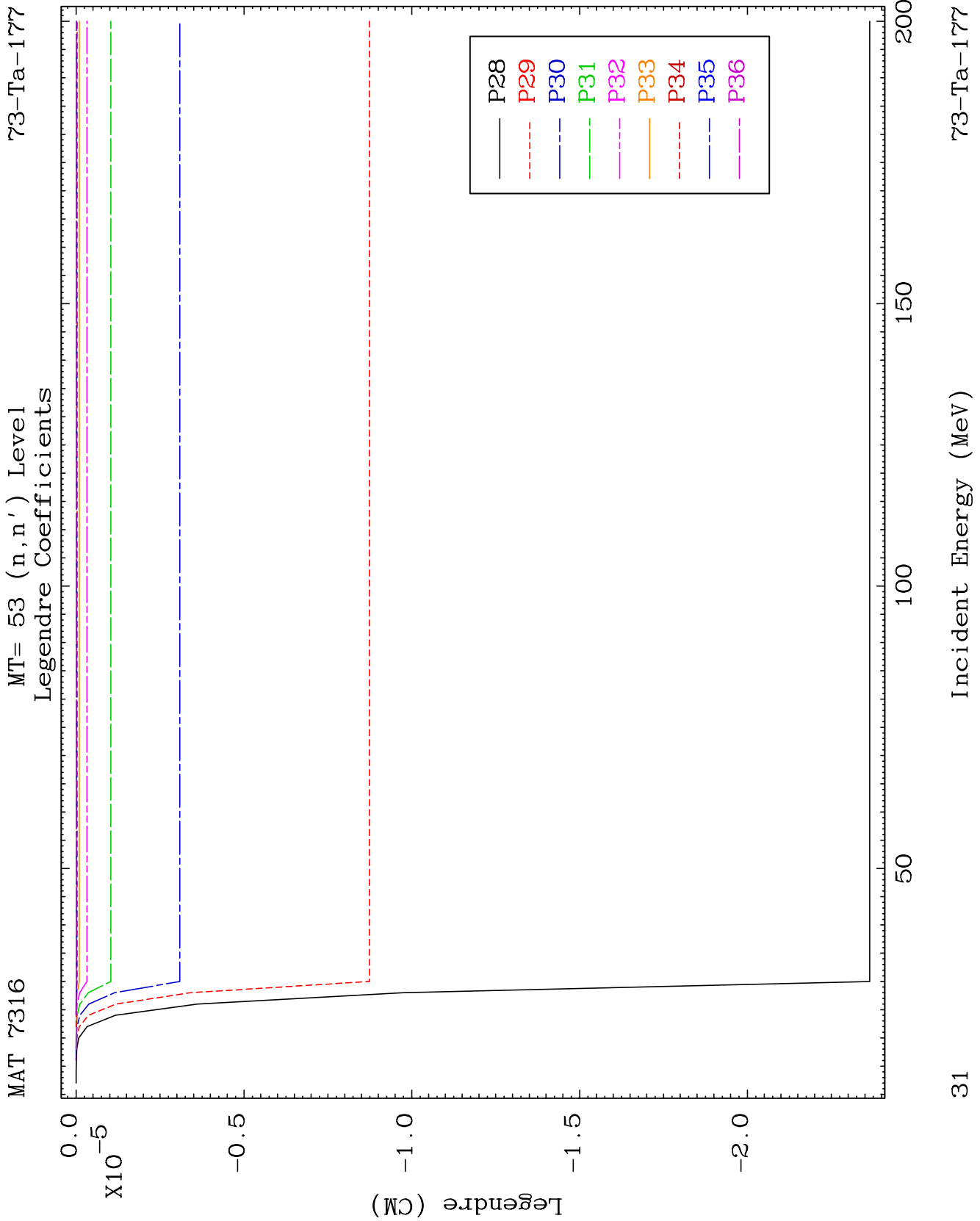
73-Ta-177



30

Incident Energy (MeV)

73-Ta-177

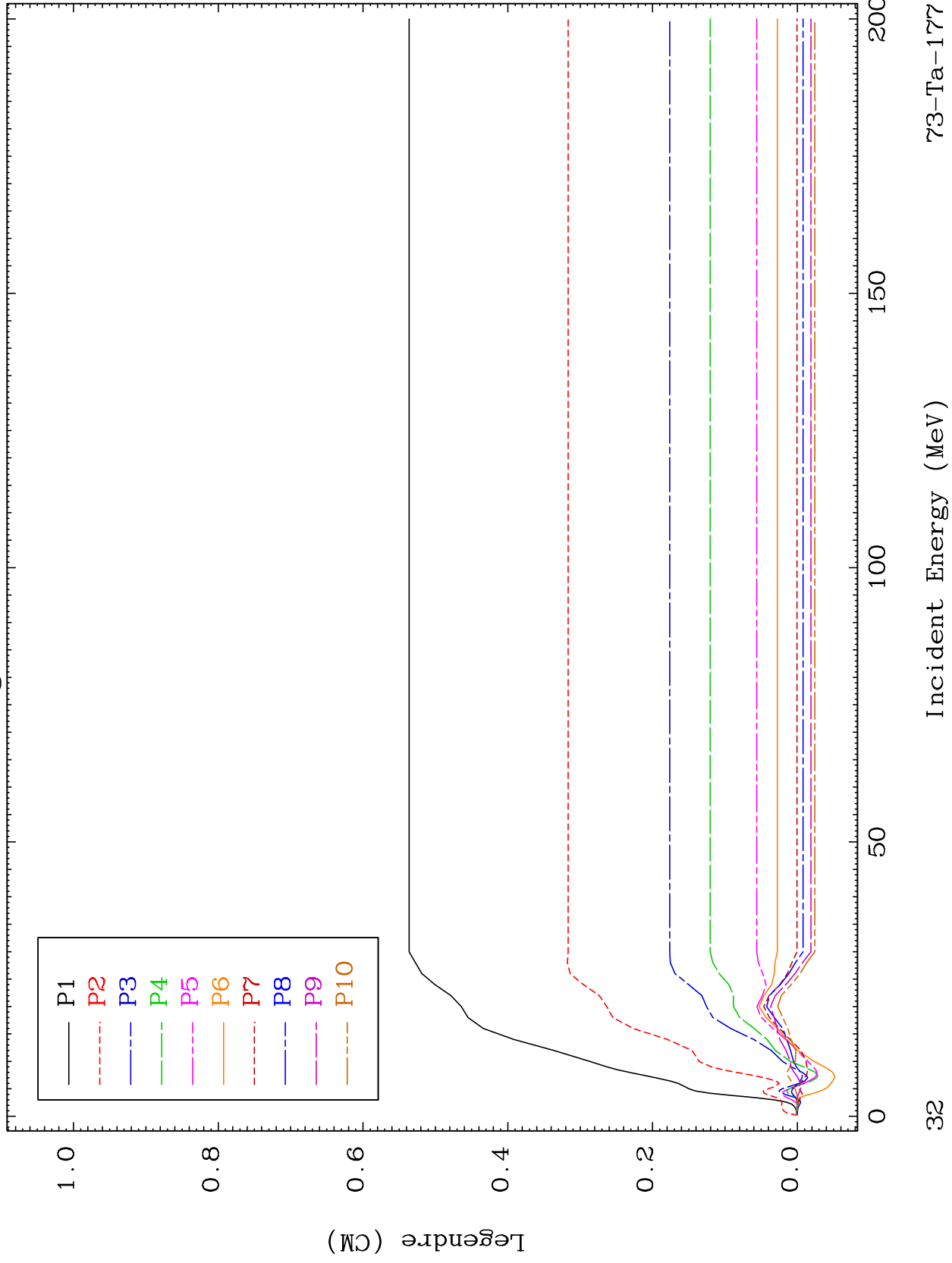




MAT 7316

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

<sup>73</sup>Ta-177

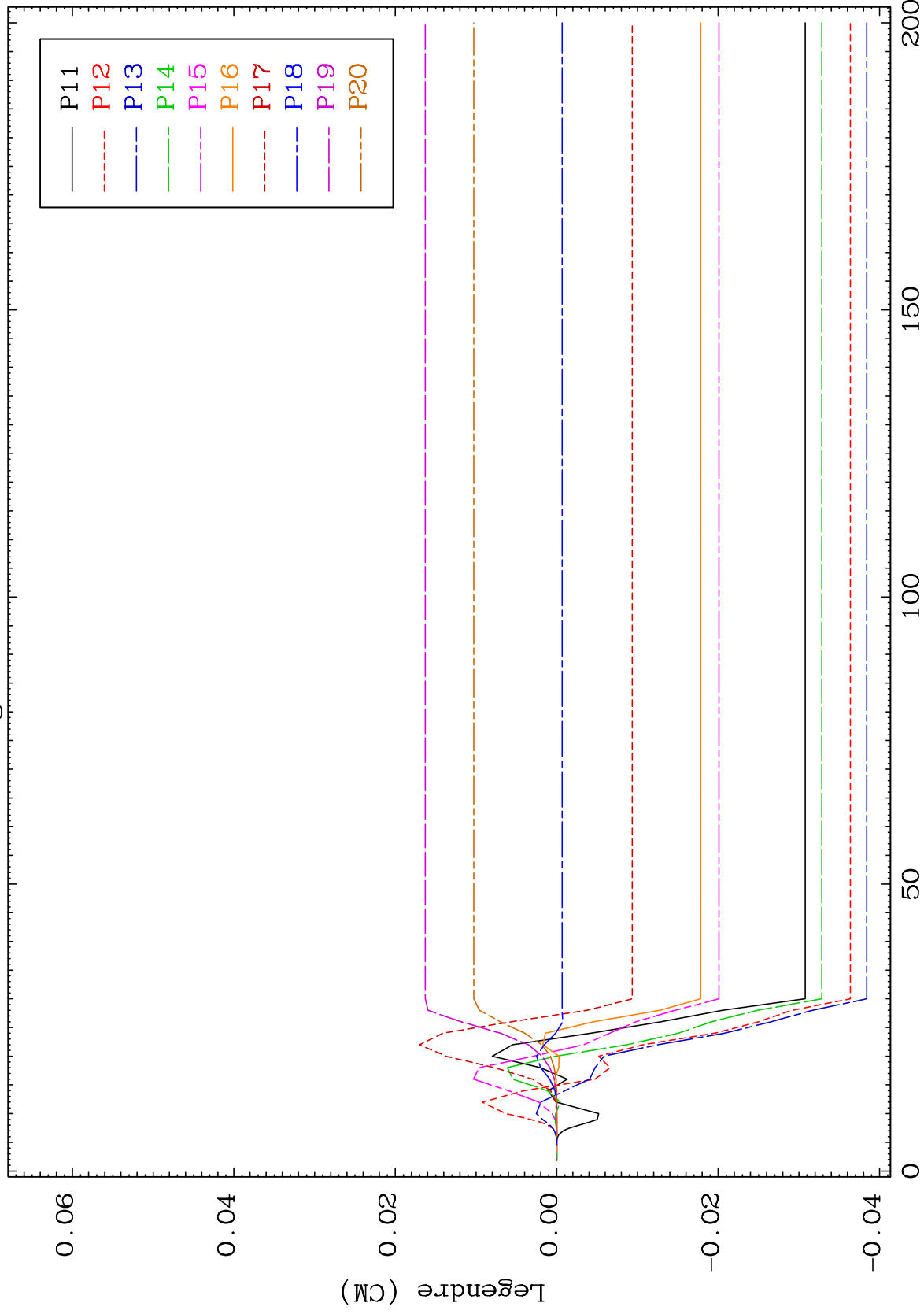


32

MAT 7316

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

73-Ta-177



33

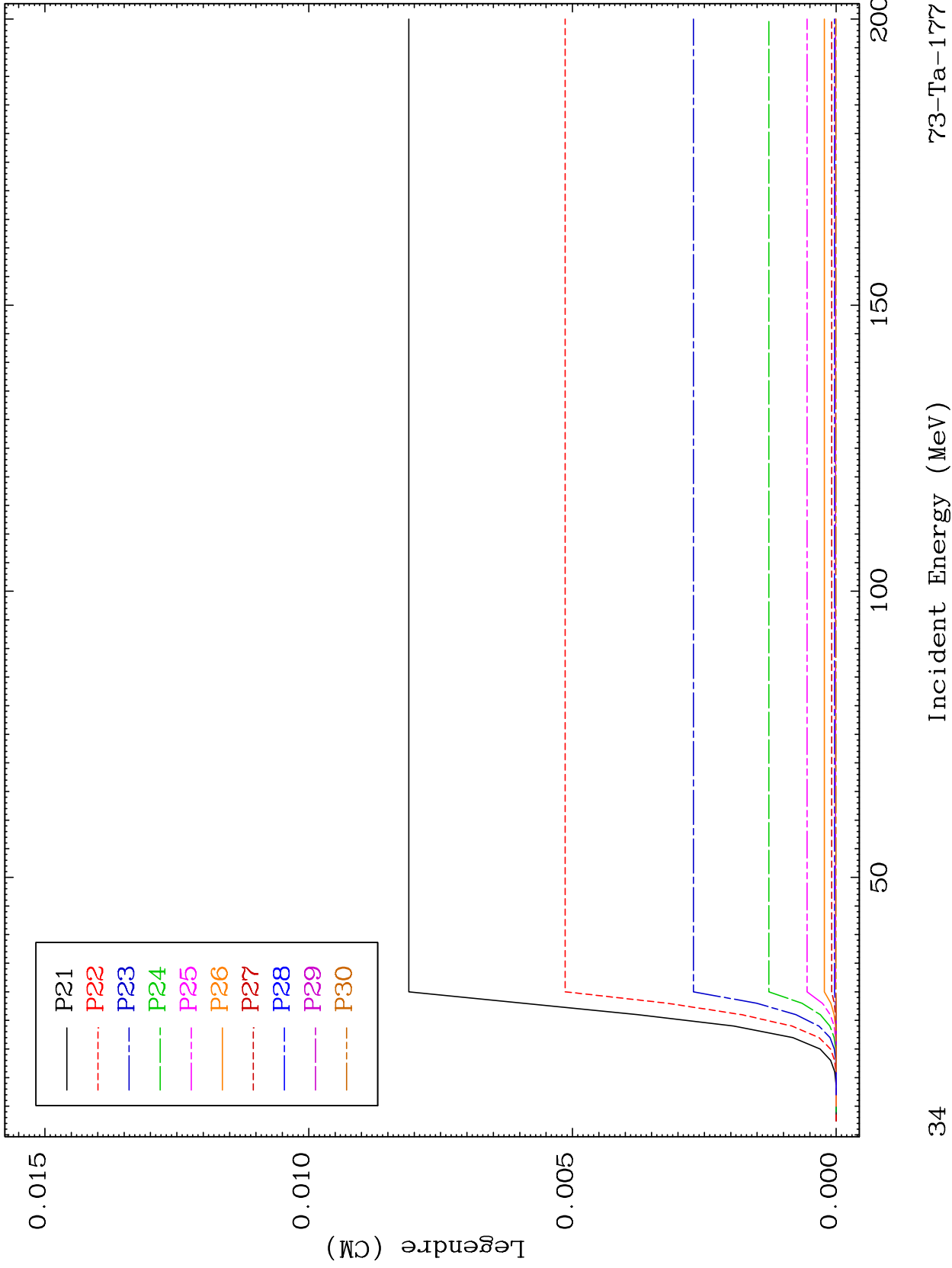
Incident Energy (MeV)

73-Ta-177

MAT 7316

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

73-Ta-177



34

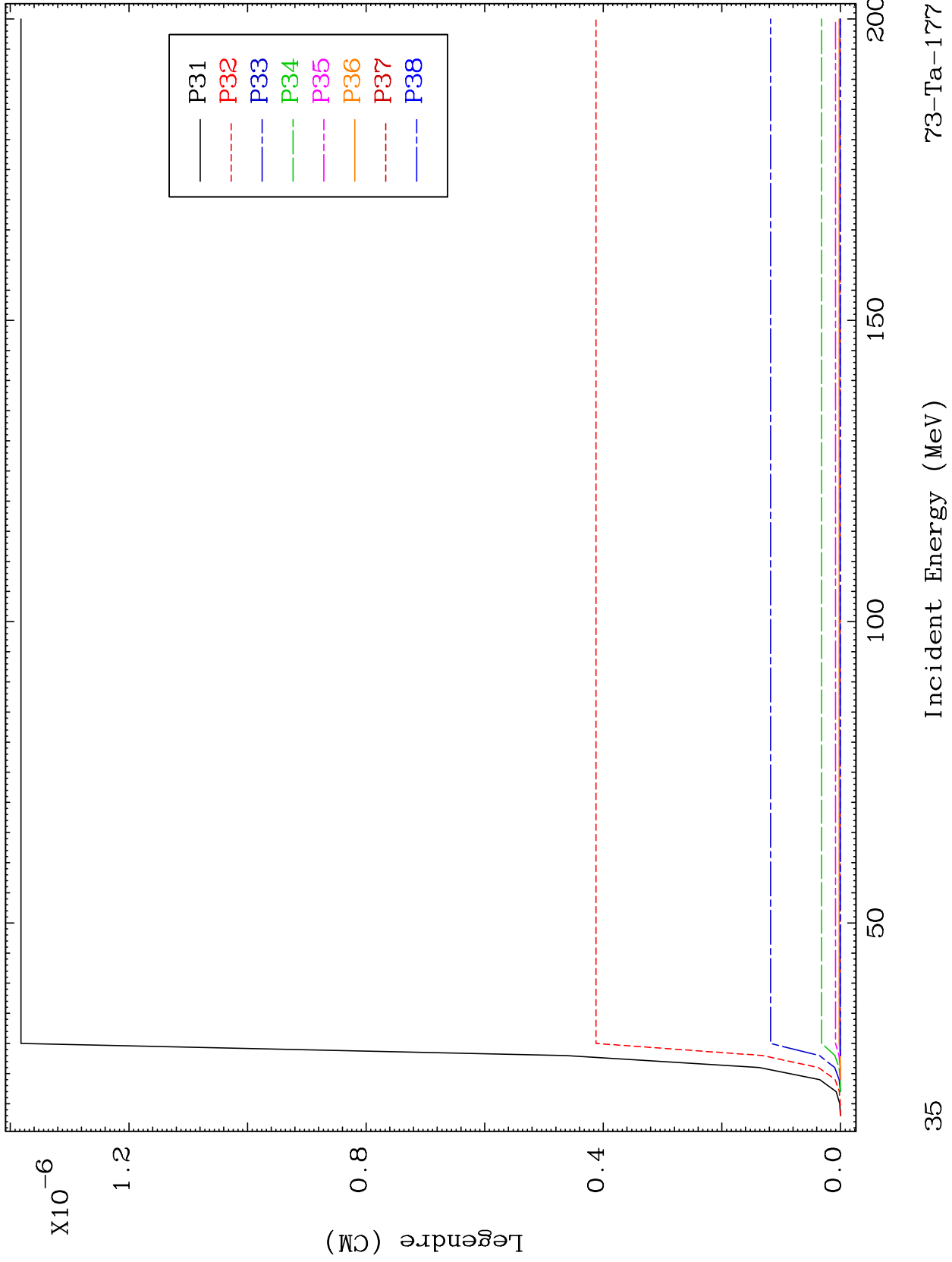
Incident Energy (MeV)

73-Ta-177

MAT 7316

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

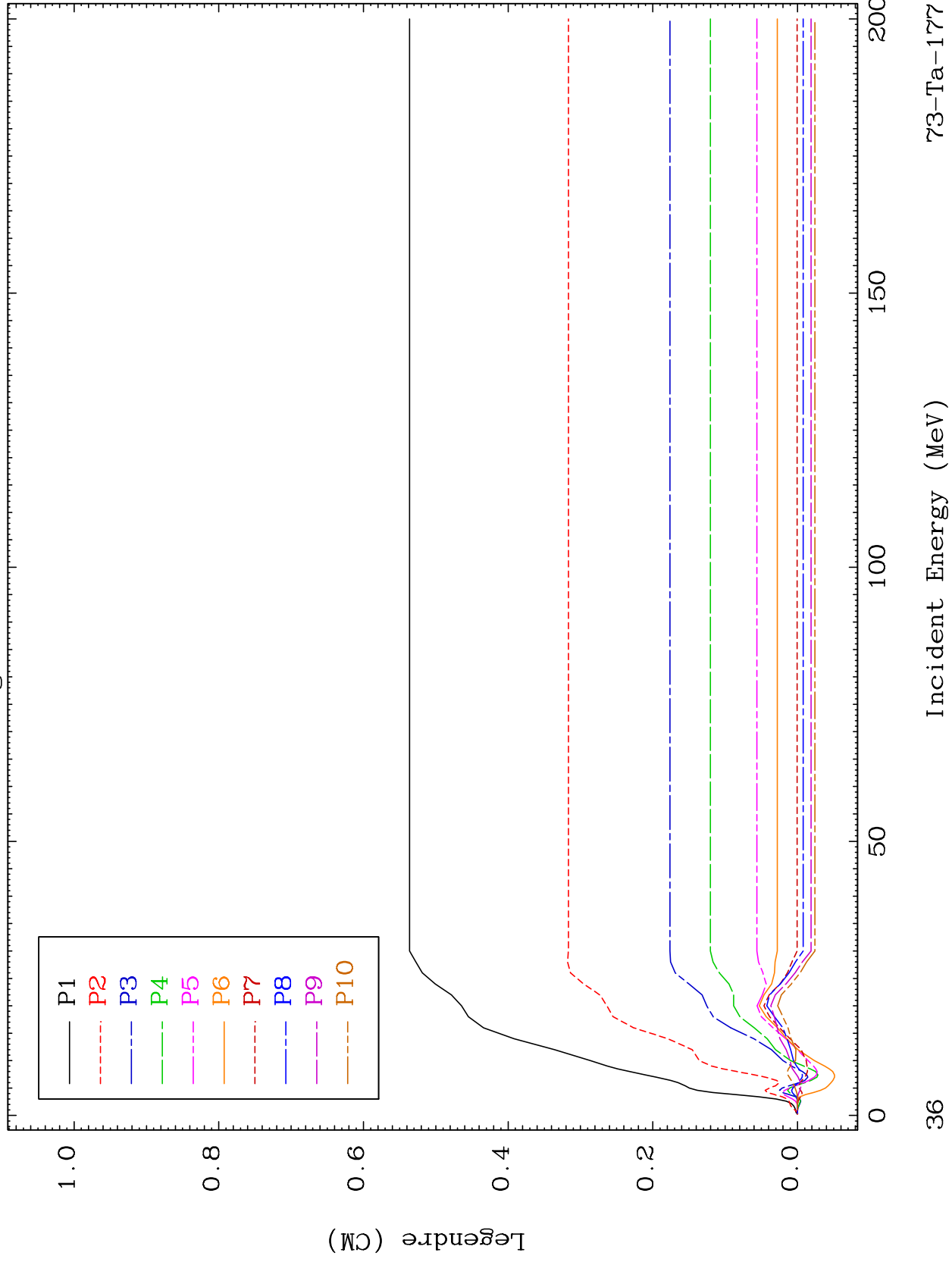
73-Ta-177



MAT 7316

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

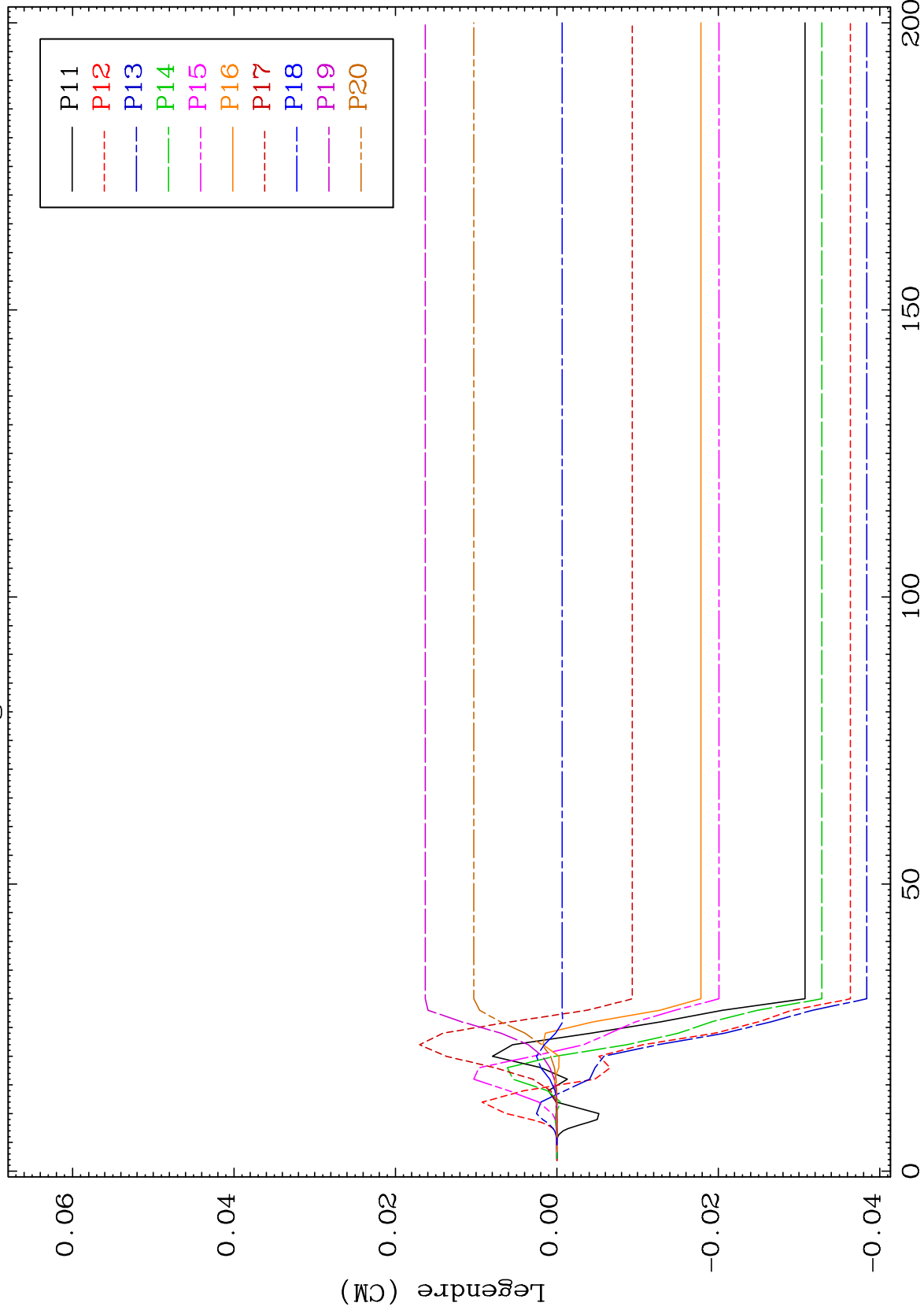
<sup>73</sup>Ta-177



MAT 7316

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

73-Ta-177



37

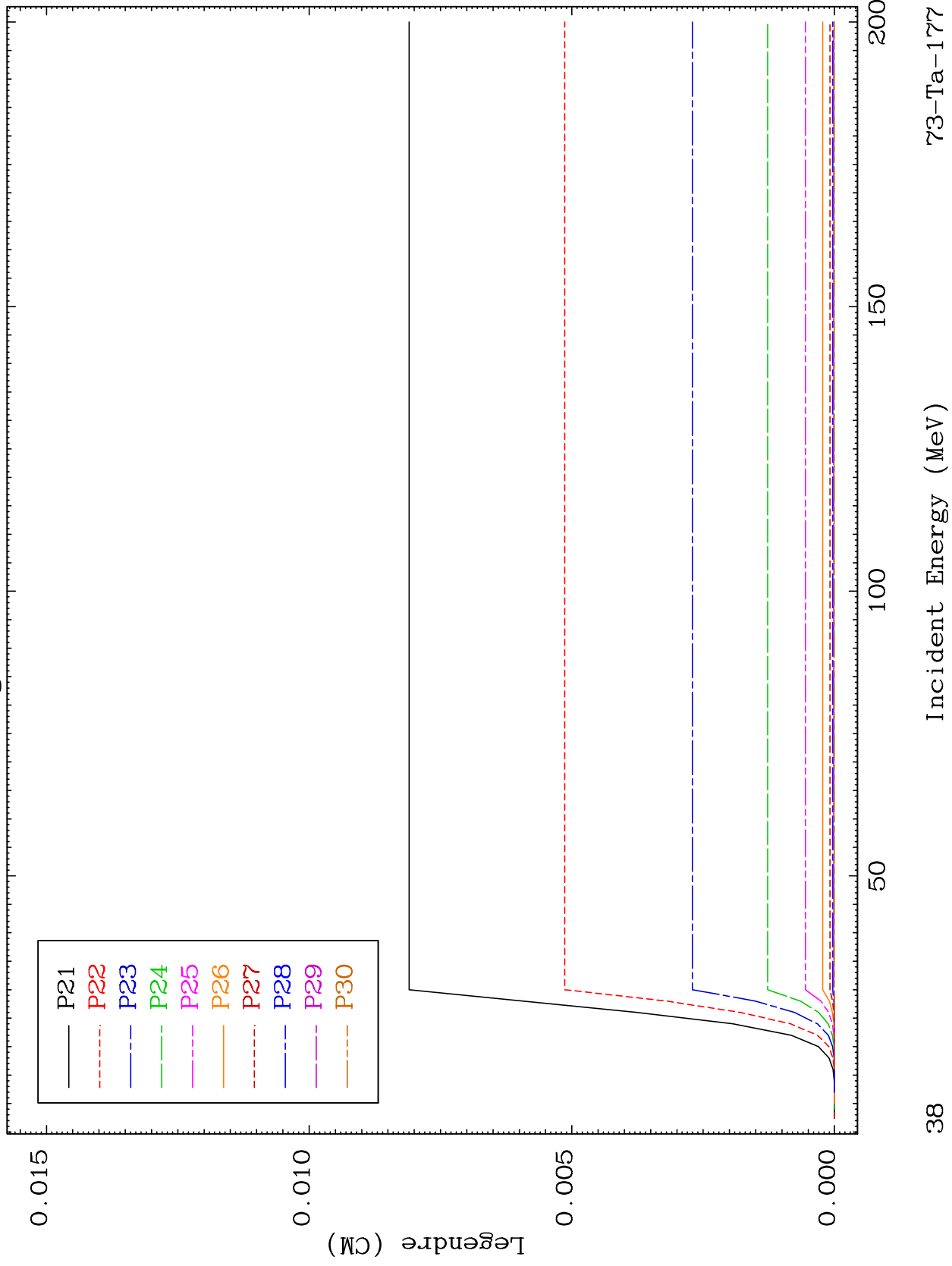
Incident Energy (MeV)

73-Ta-177

MAT 7316

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

73-Ta-177



38

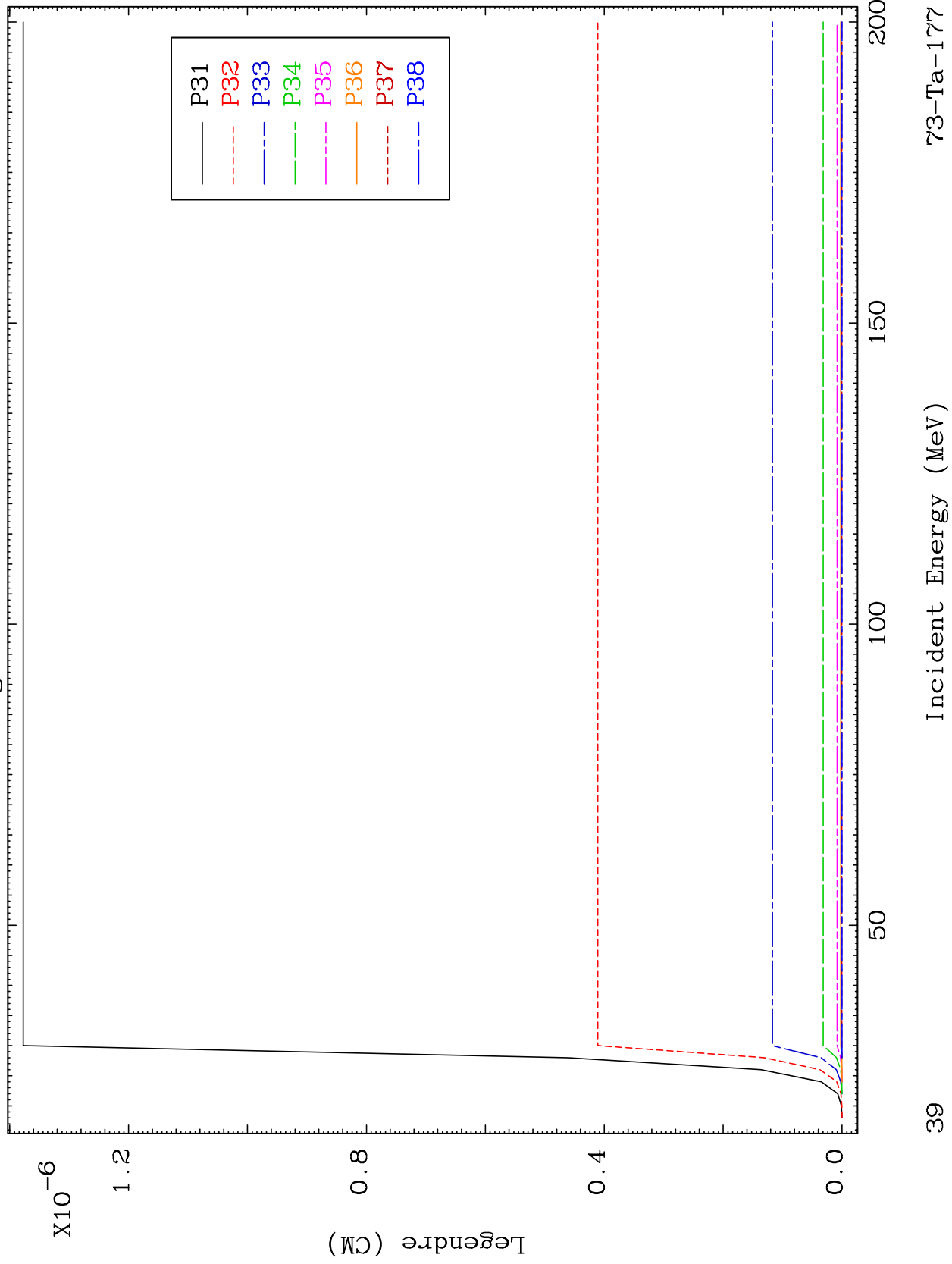
Incident Energy (MeV)

73-Ta-177

MAT 7316

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

73-Ta-177



39

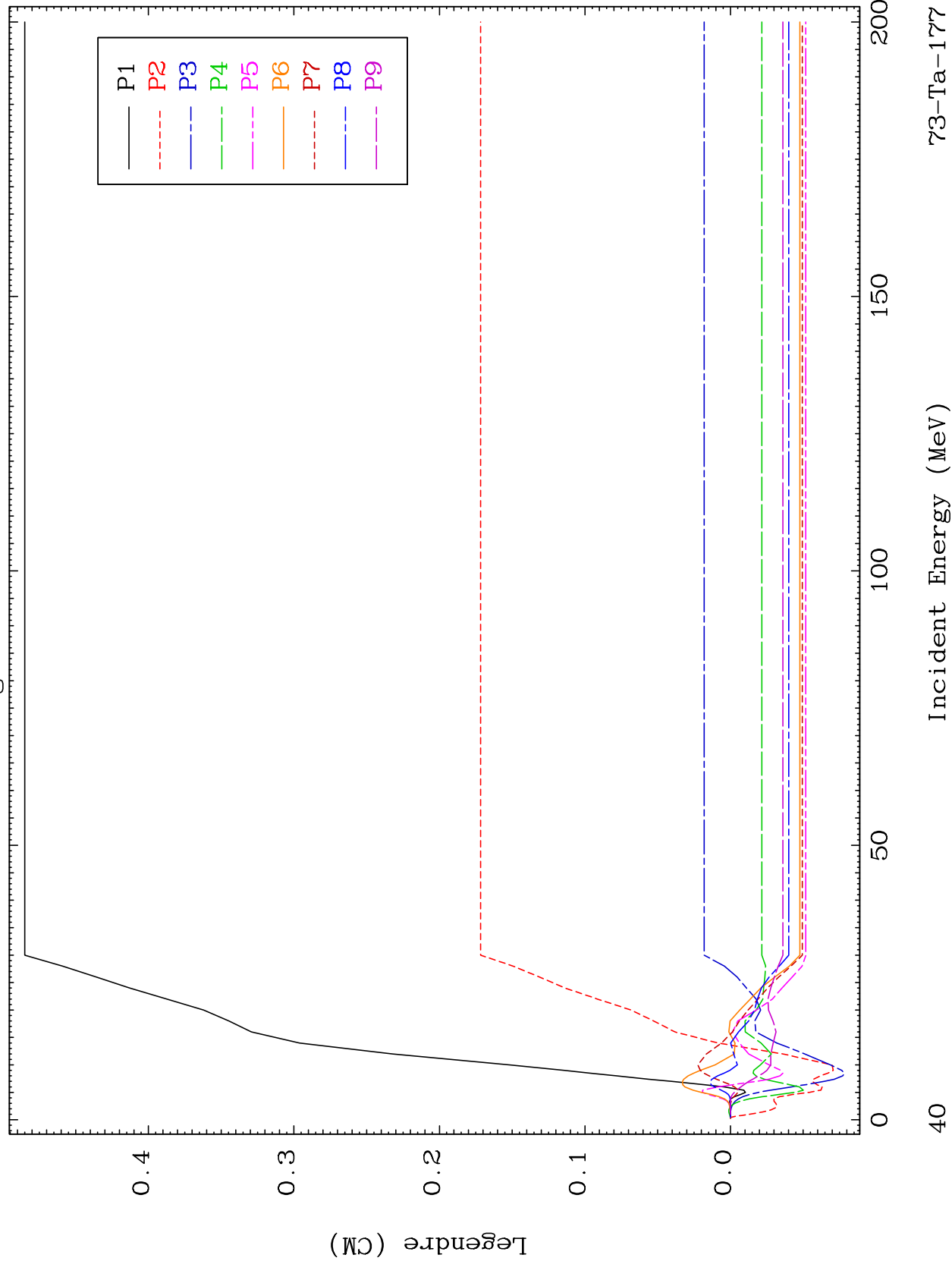
73-Ta-177



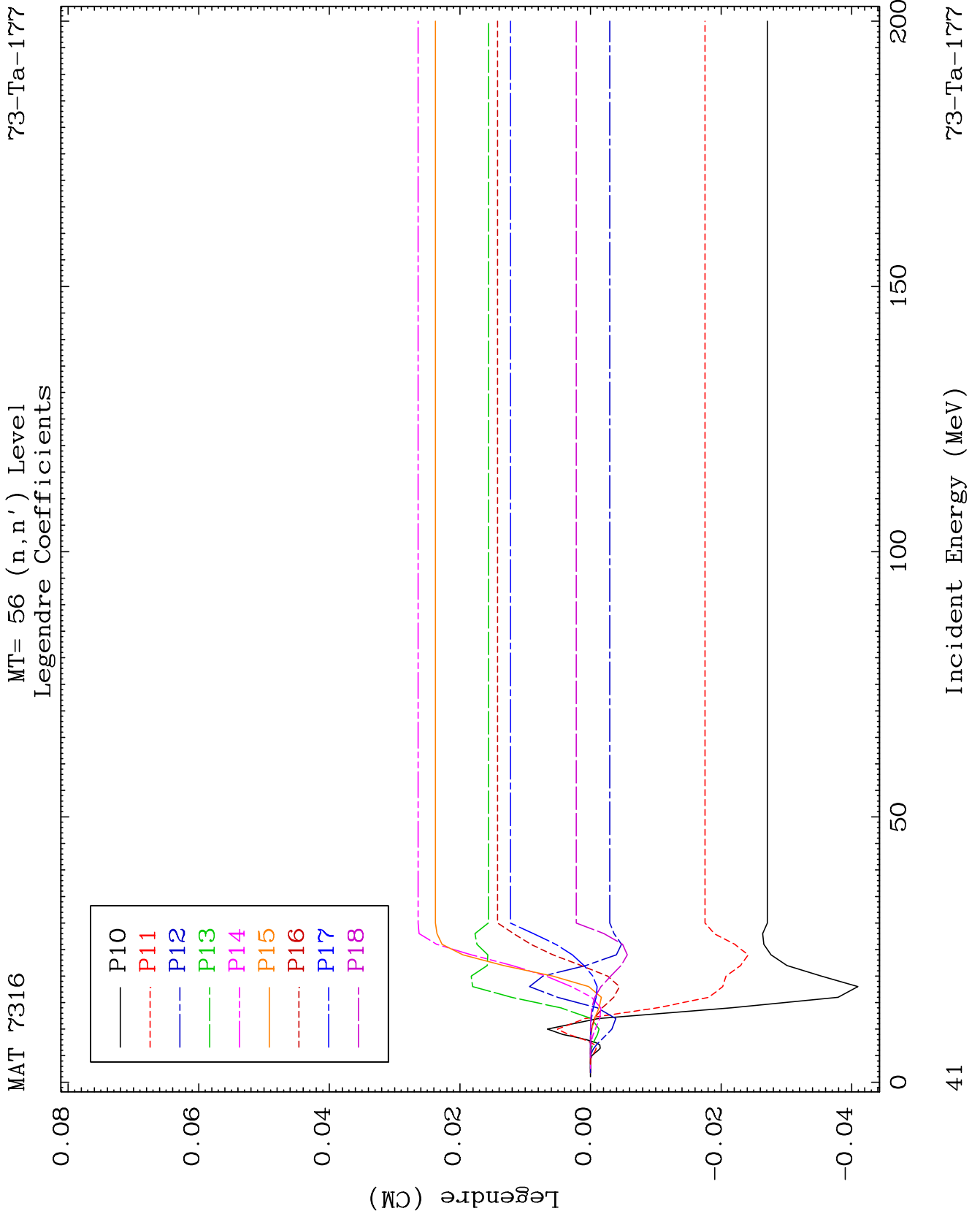
MAT 7316

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

73-Ta-177



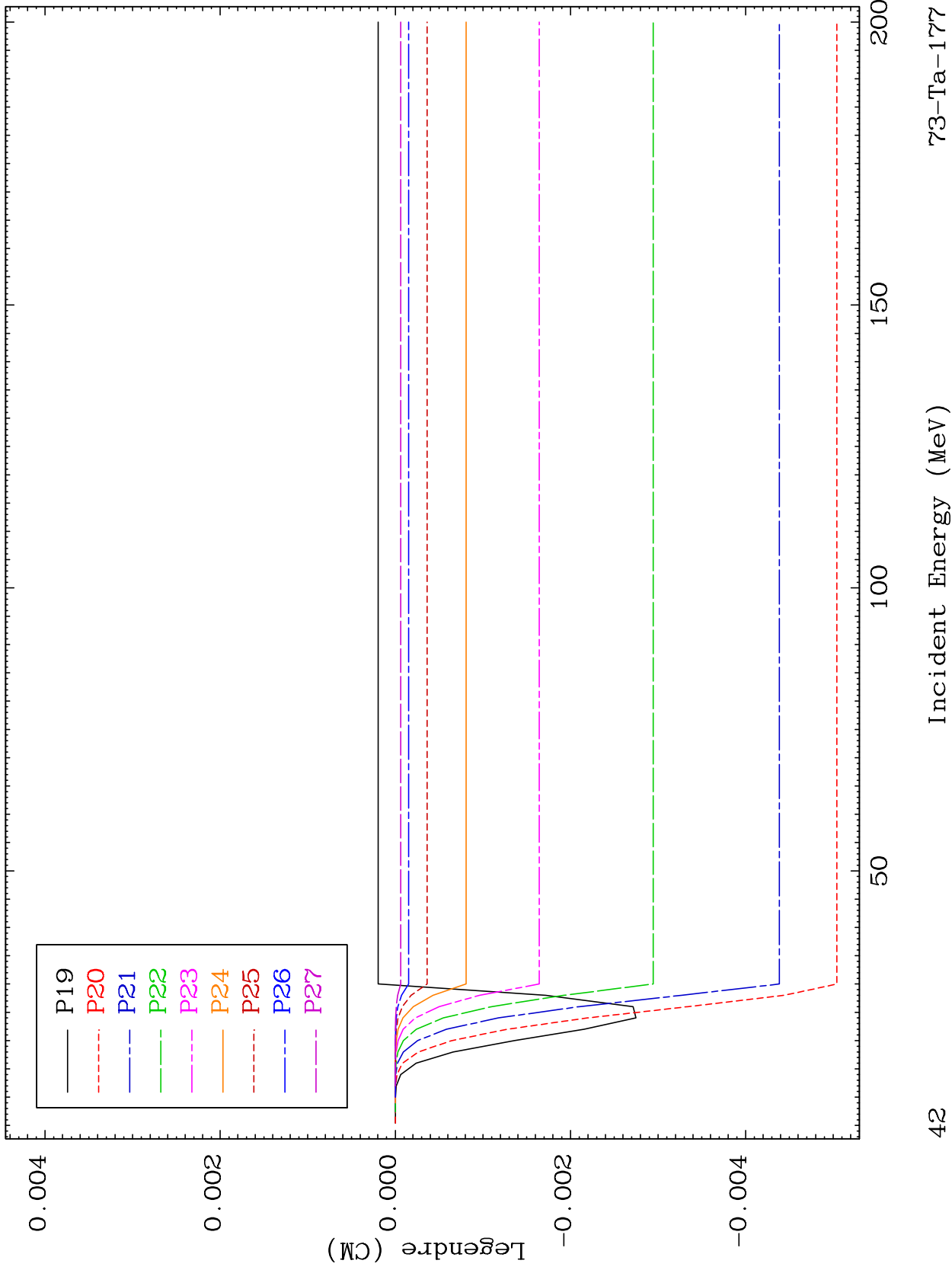
73-Ta-177

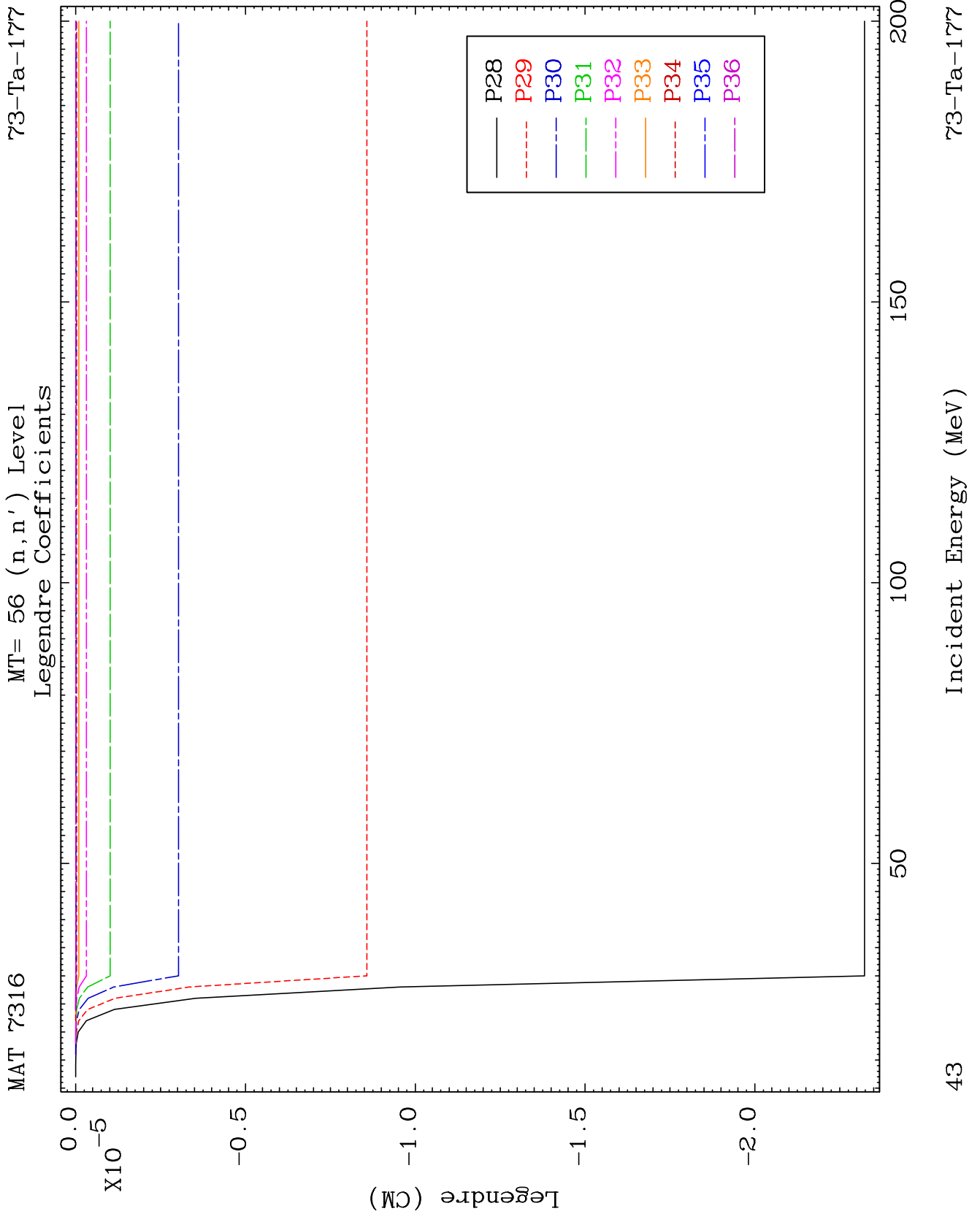


MAT 7316

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

73-Ta-177

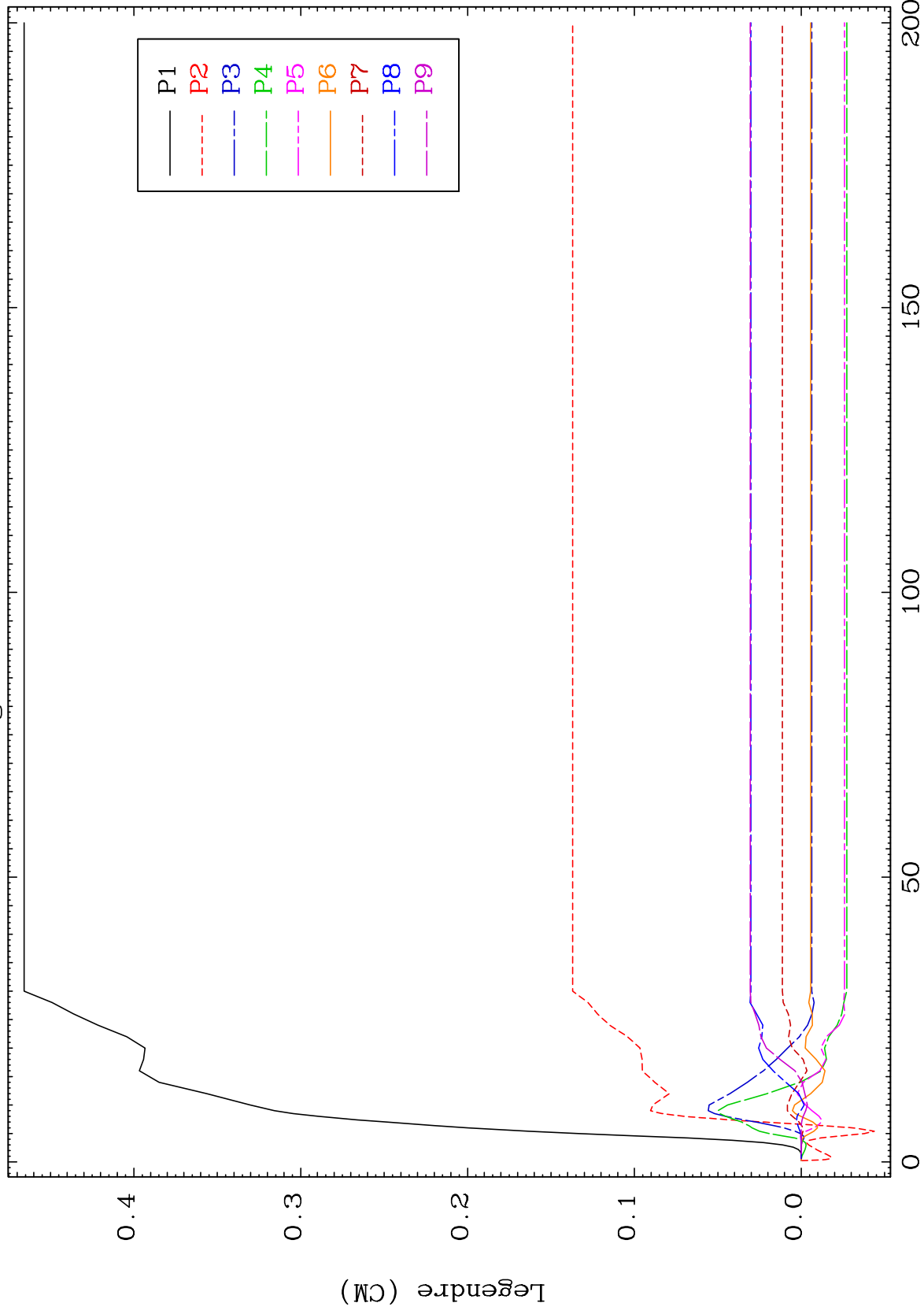




MAT 7316

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

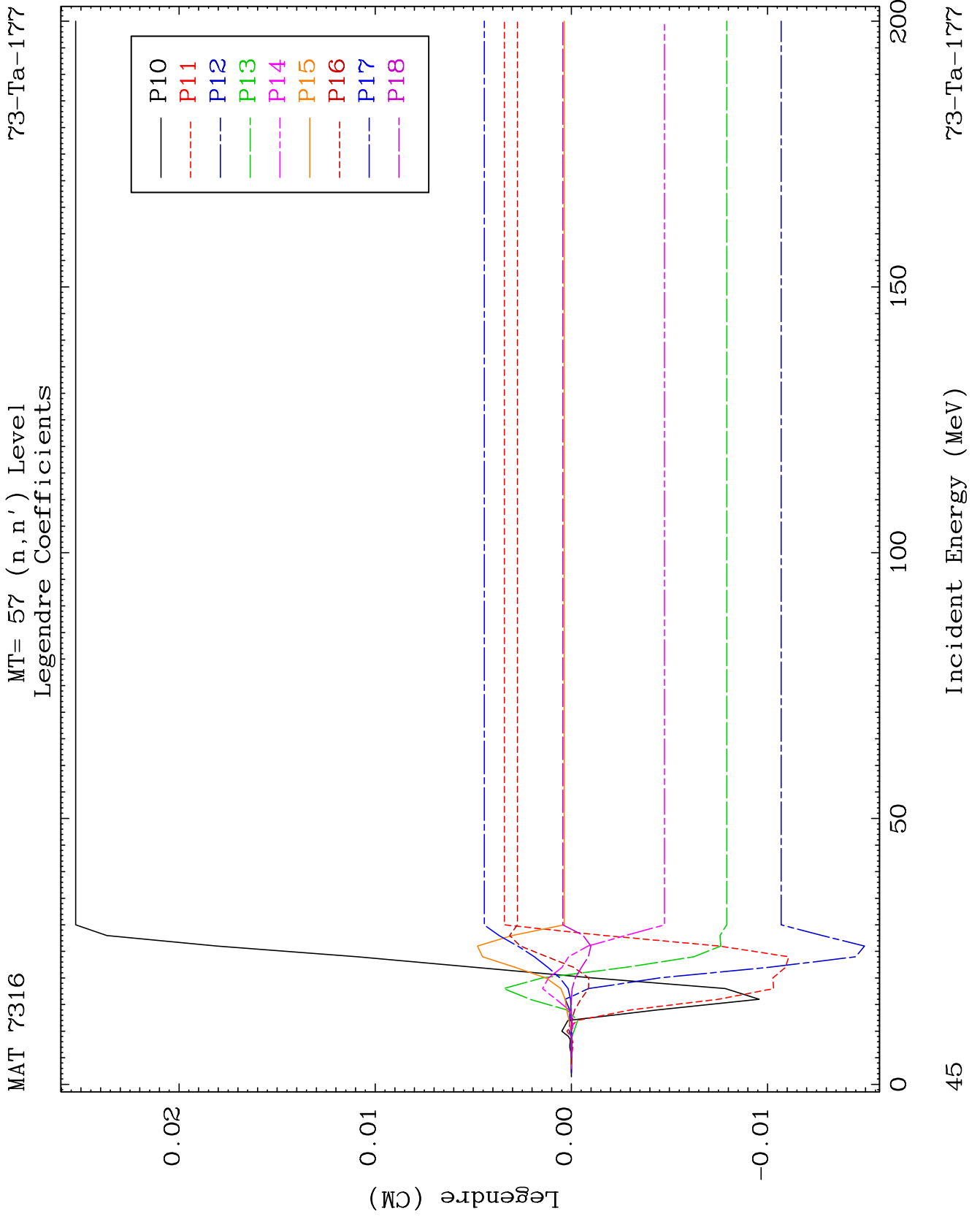
73-Ta-177



44

Incident Energy (MeV)

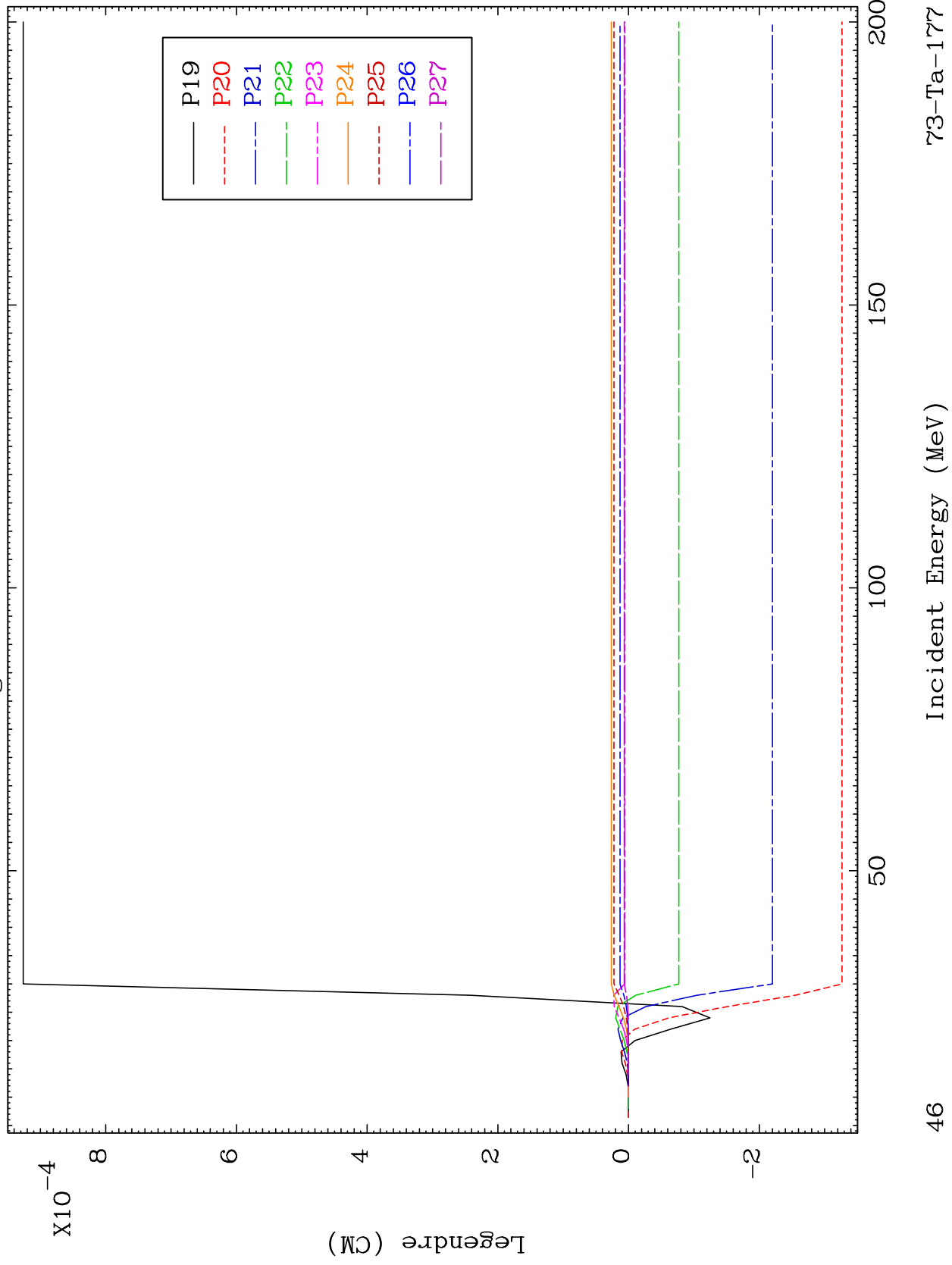
73-Ta-177



MAT 7316

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

73-Ta-177



46

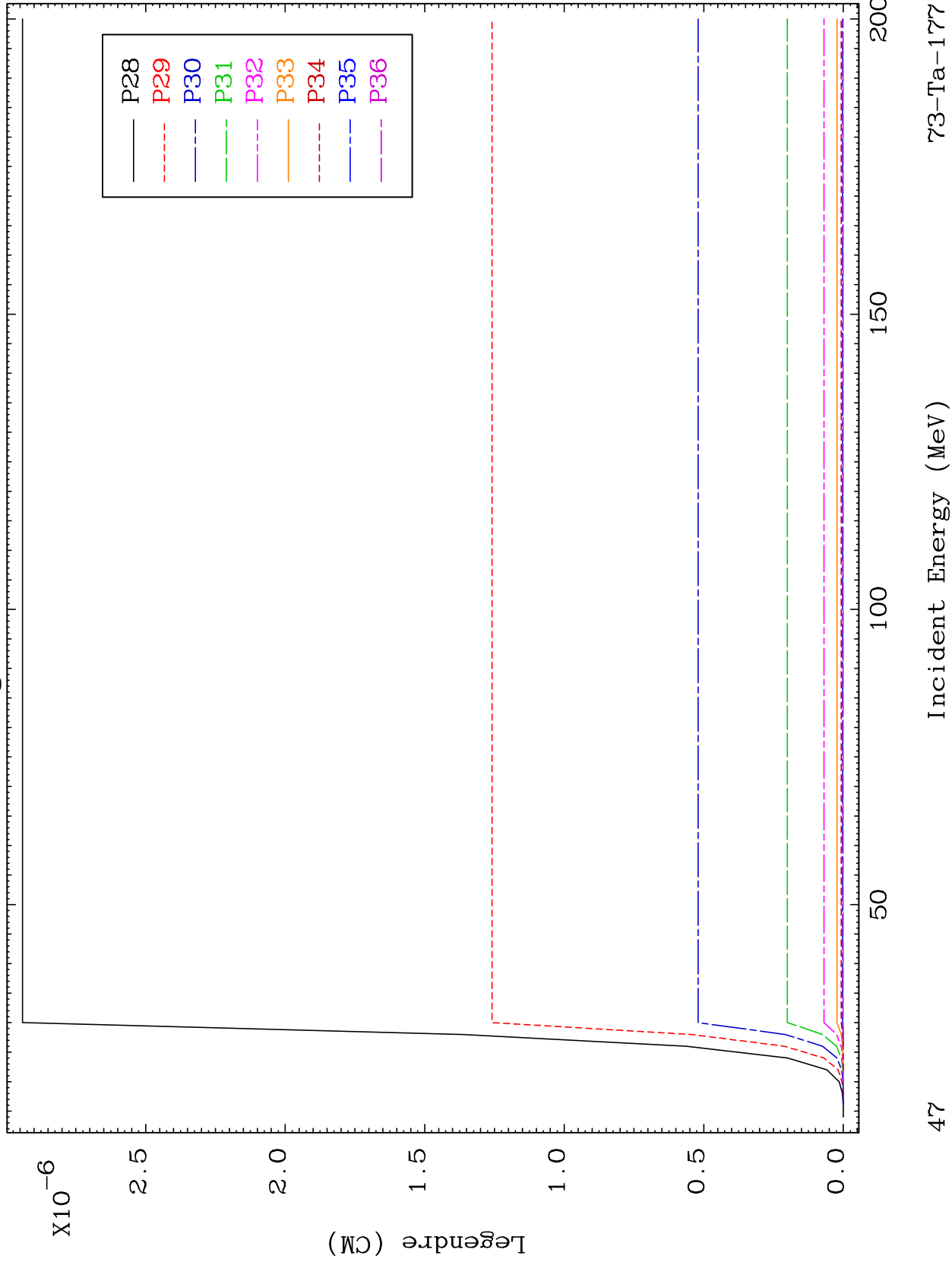
Incident Energy (MeV)

73-Ta-177

MAT 7316

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

73-Ta-177



47

Incident Energy (MeV)

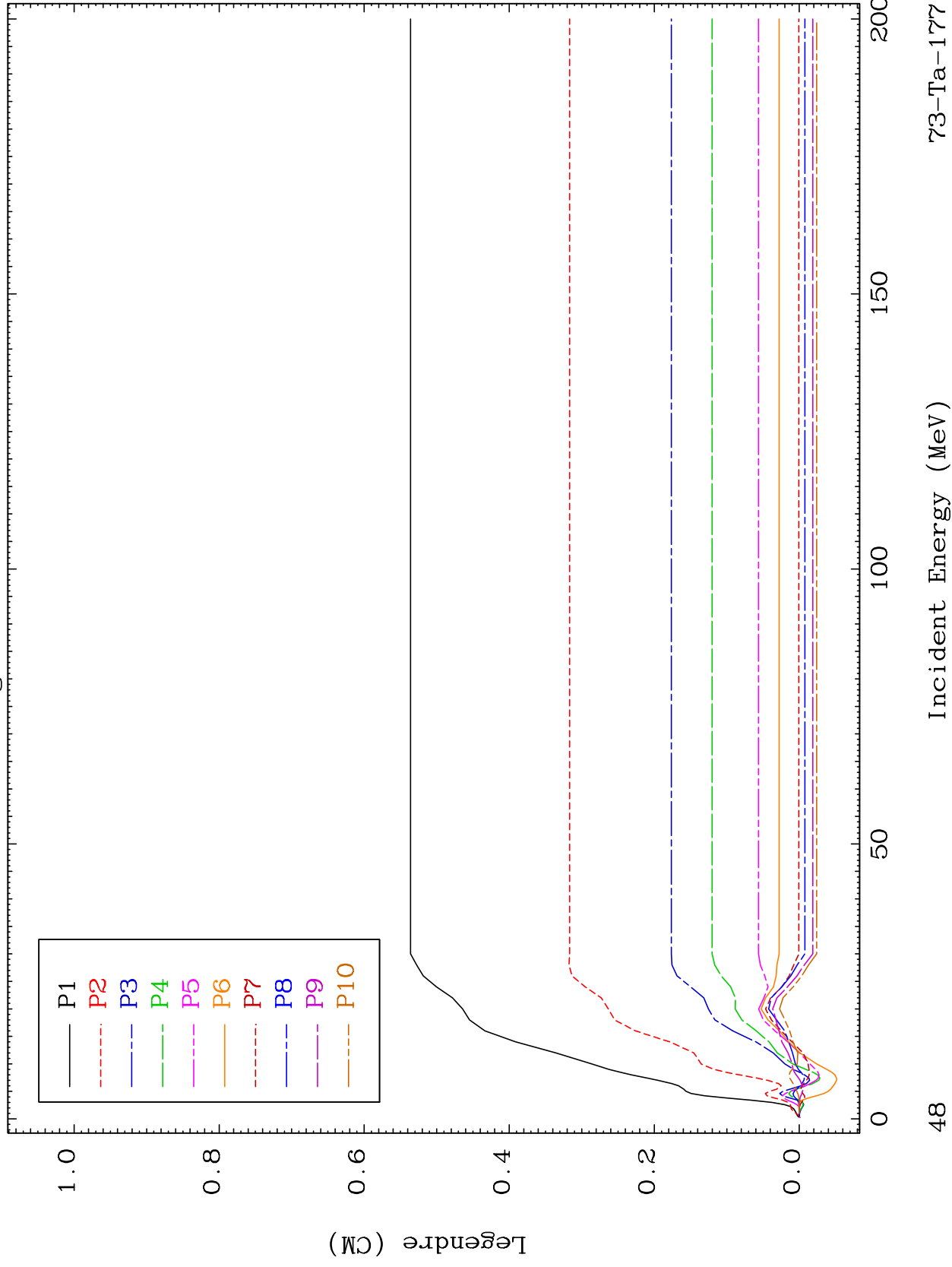
73-Ta-177



MAT 7316

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

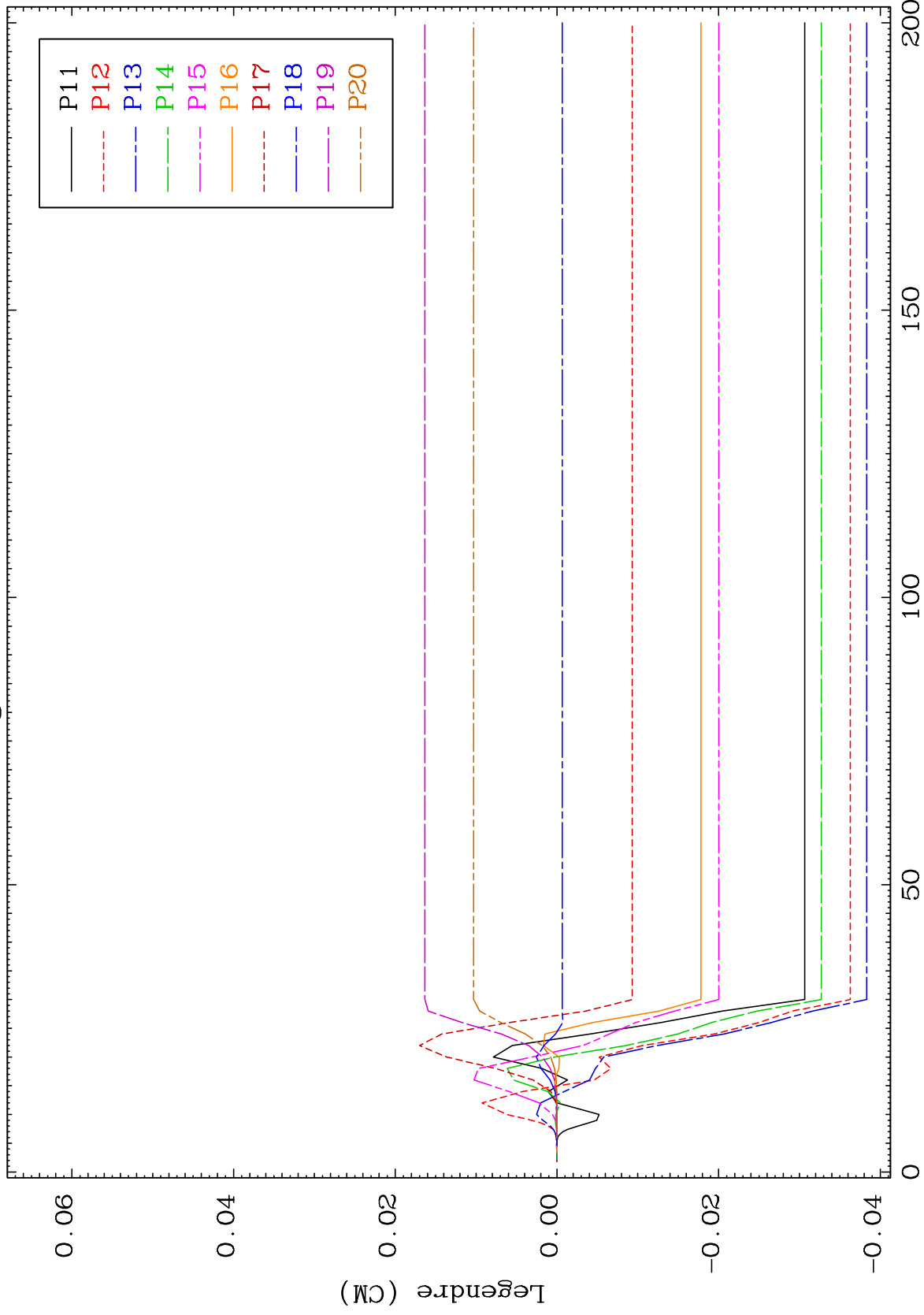
<sup>73</sup>Ta-177



MAT 7316

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

73-Ta-177



49

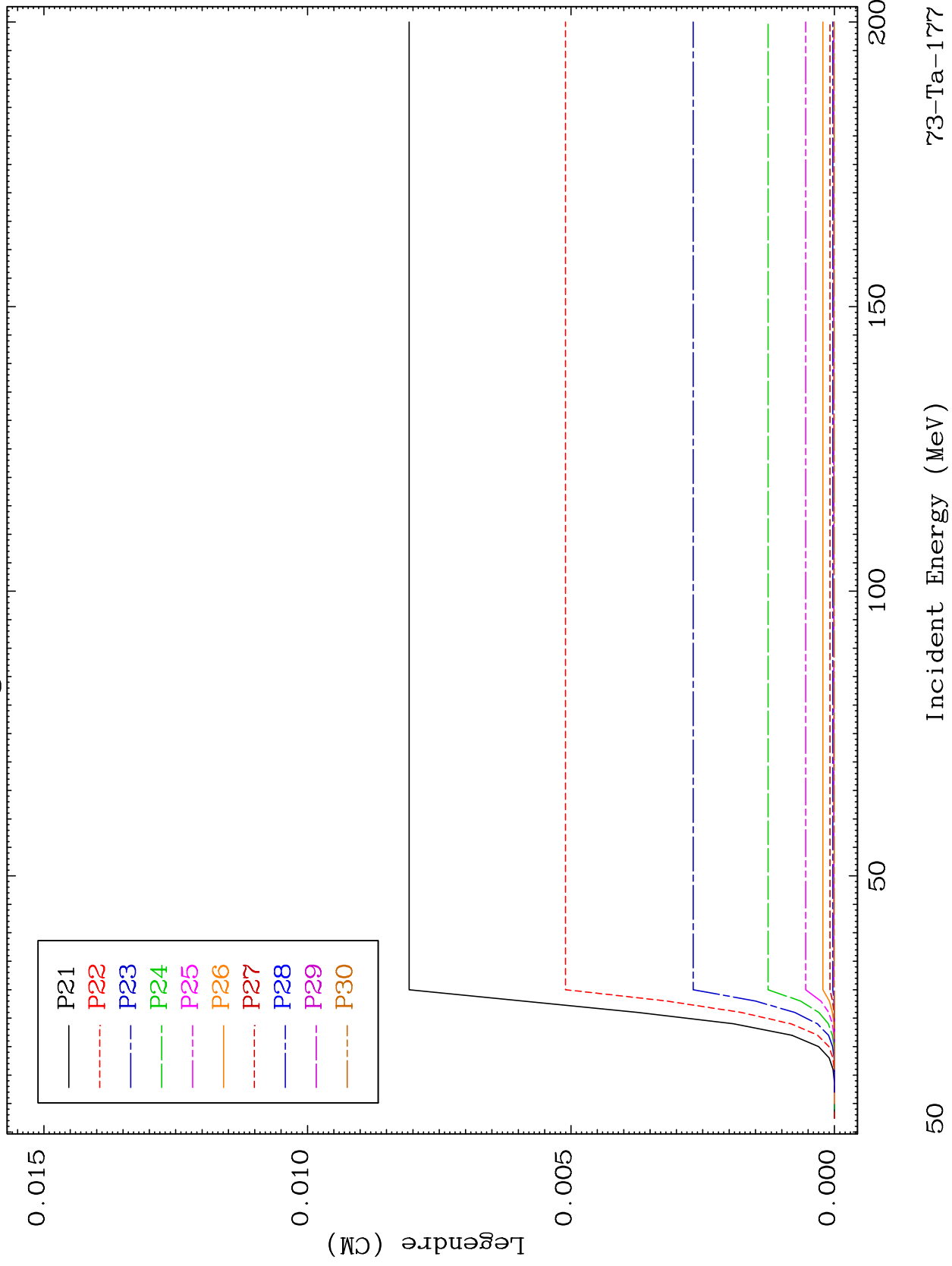
Incident Energy (MeV)

73-Ta-177

MAT 7316

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

73-Ta-177



73-Ta-177

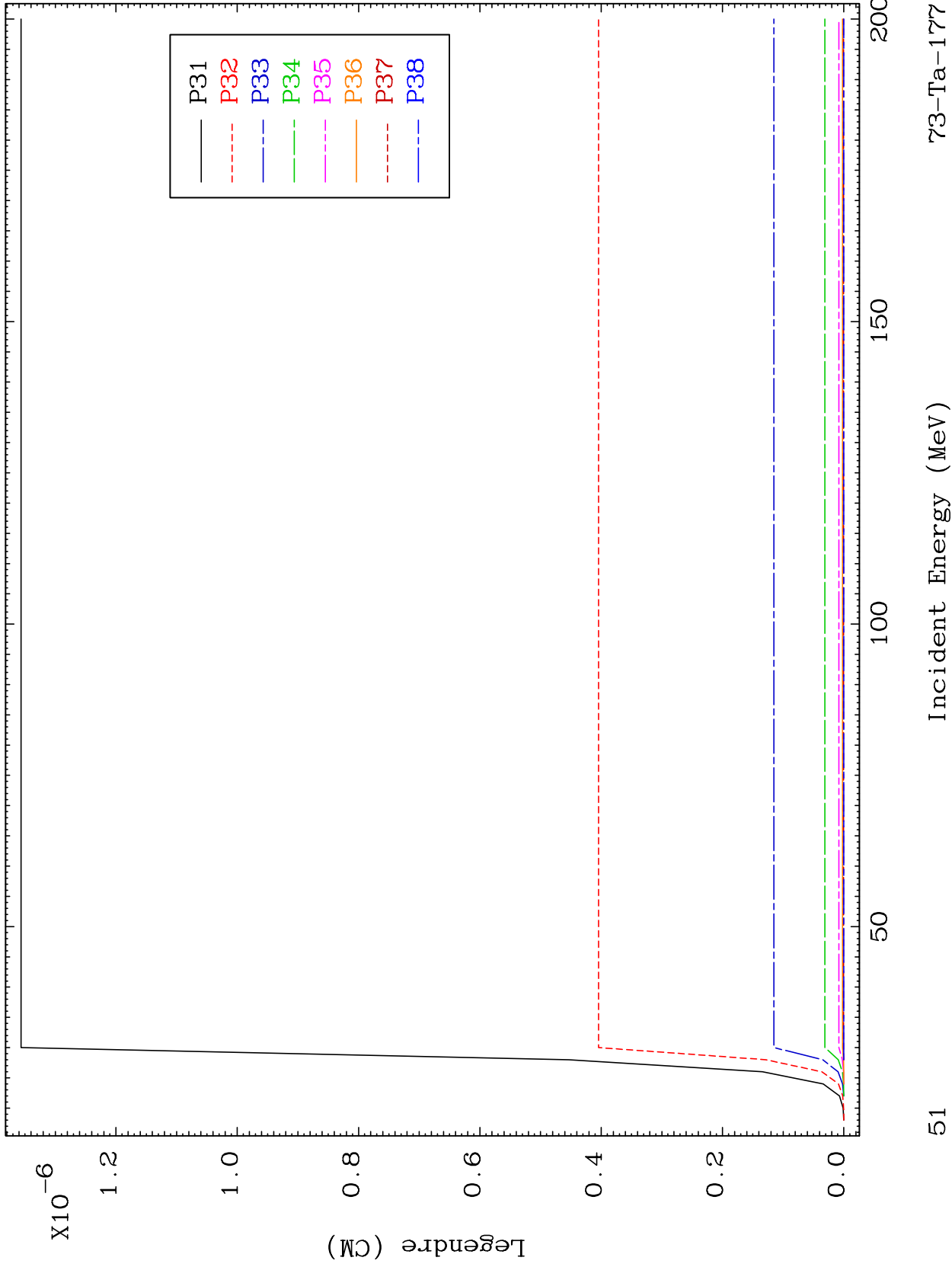
Incident Energy (MeV)

50

MAT 7316

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

73-Ta-177

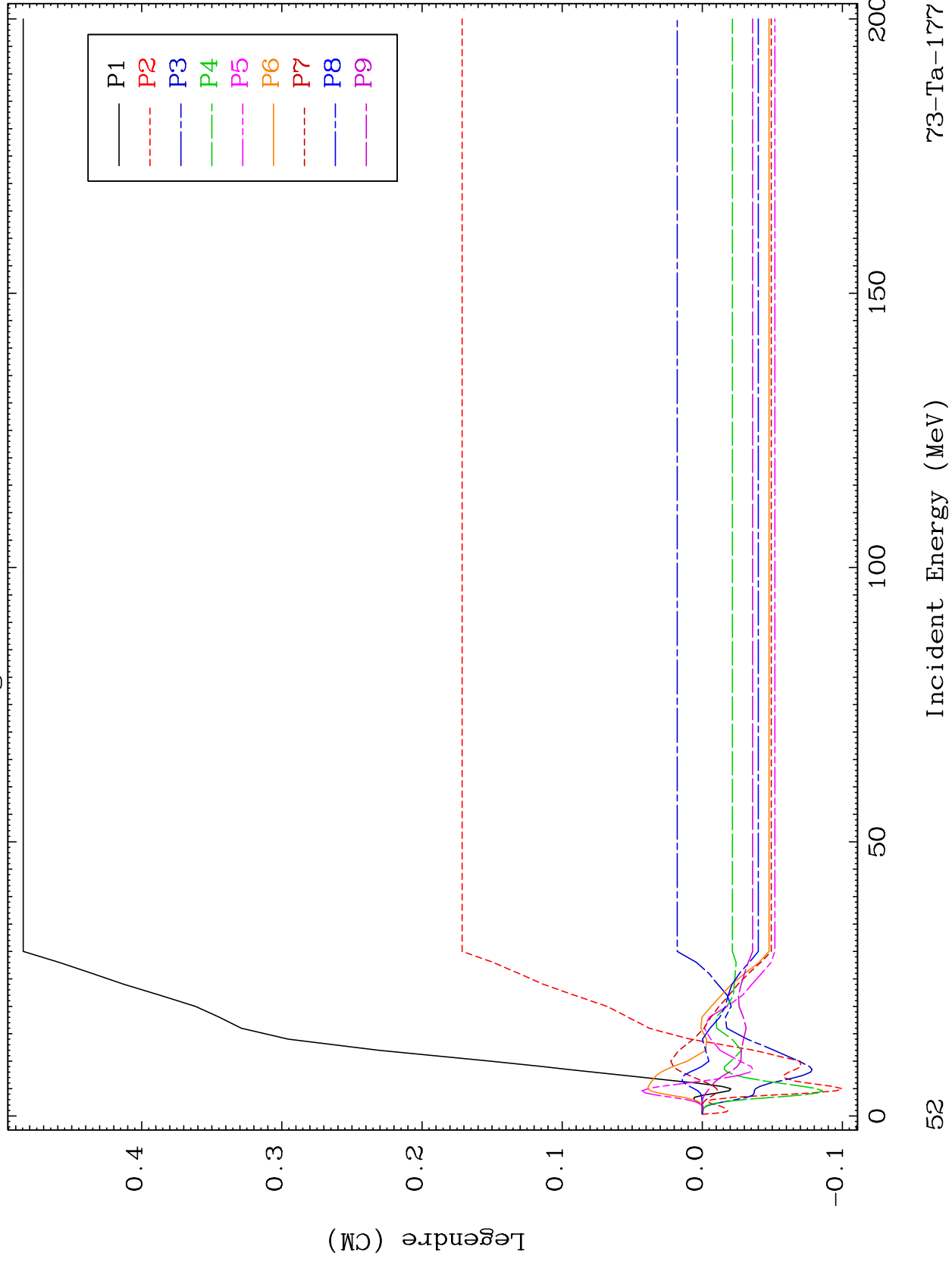


51

MAT 7316

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

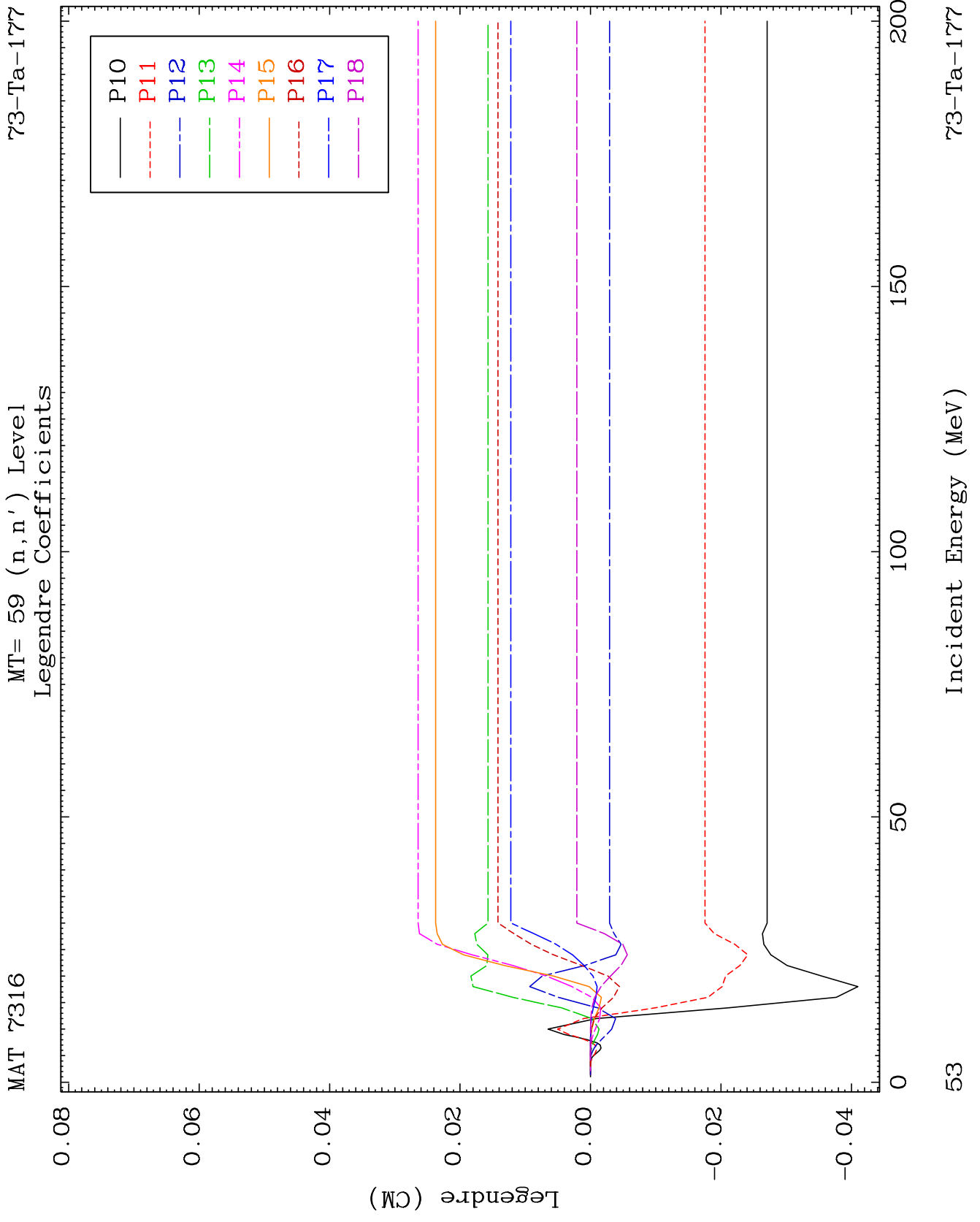
73-Ta-177



73-Ta-177

Incident Energy (MeV)

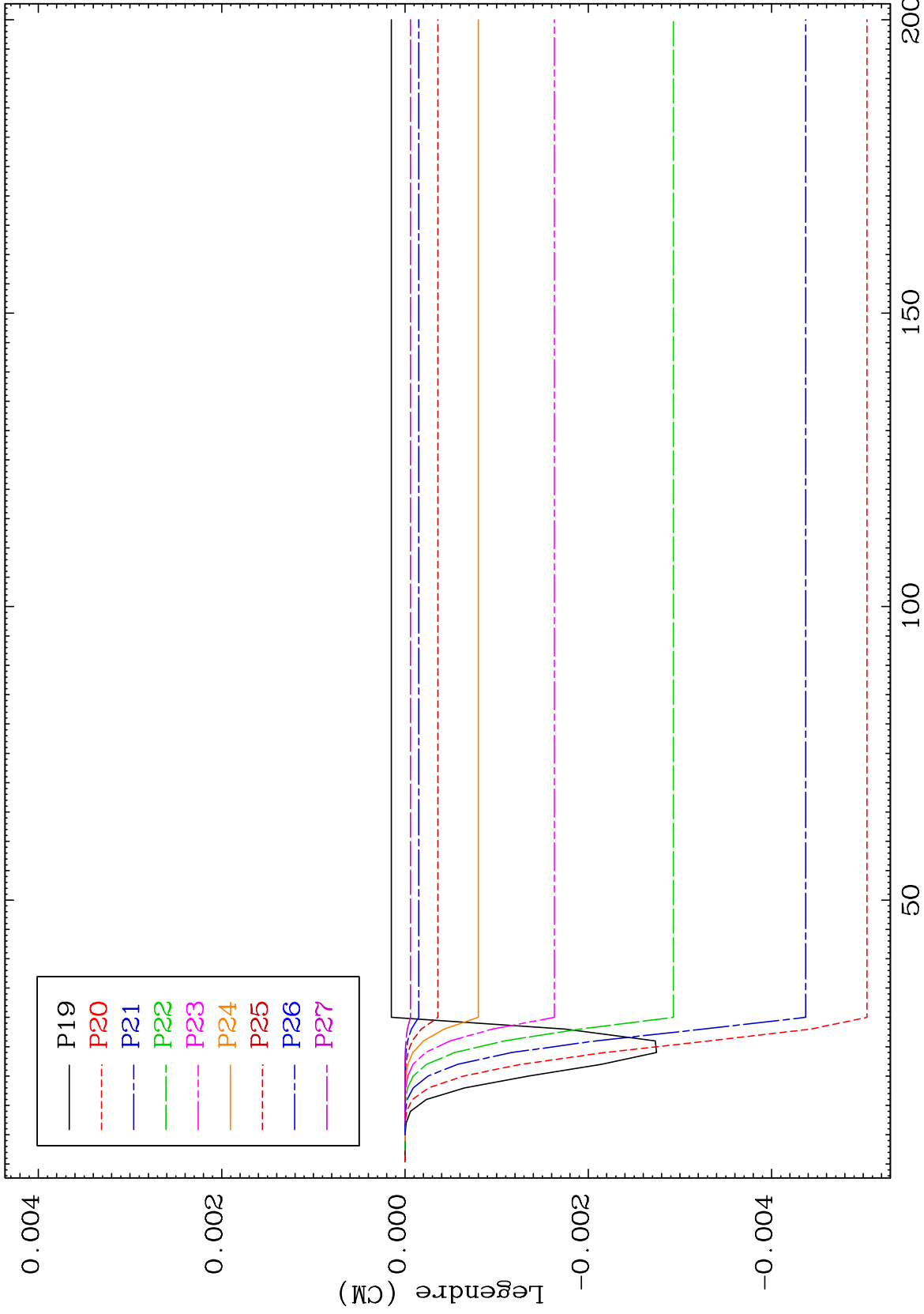
52



MAT 7316

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

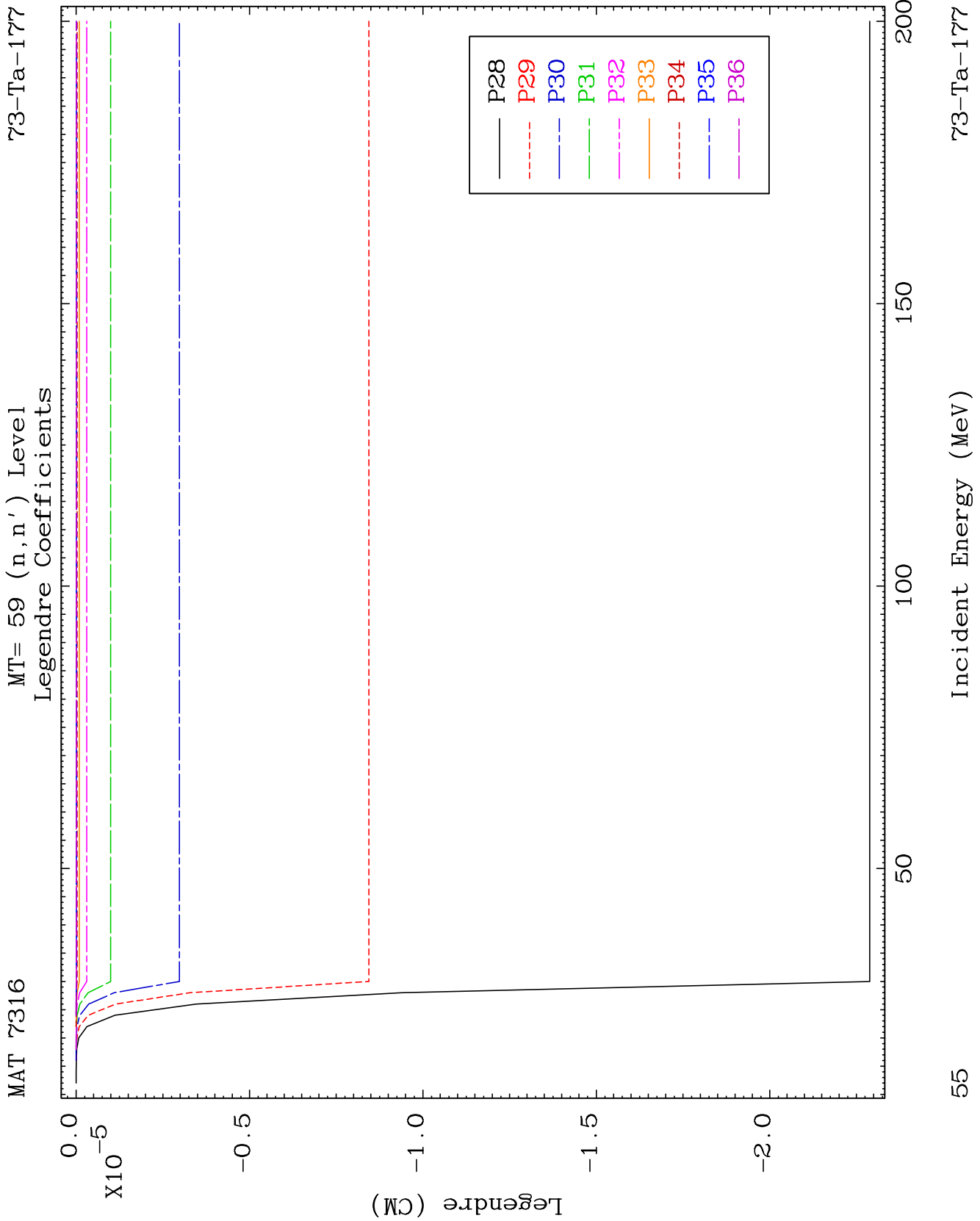
73-Ta-177



54

Incident Energy (MeV)

73-Ta-177

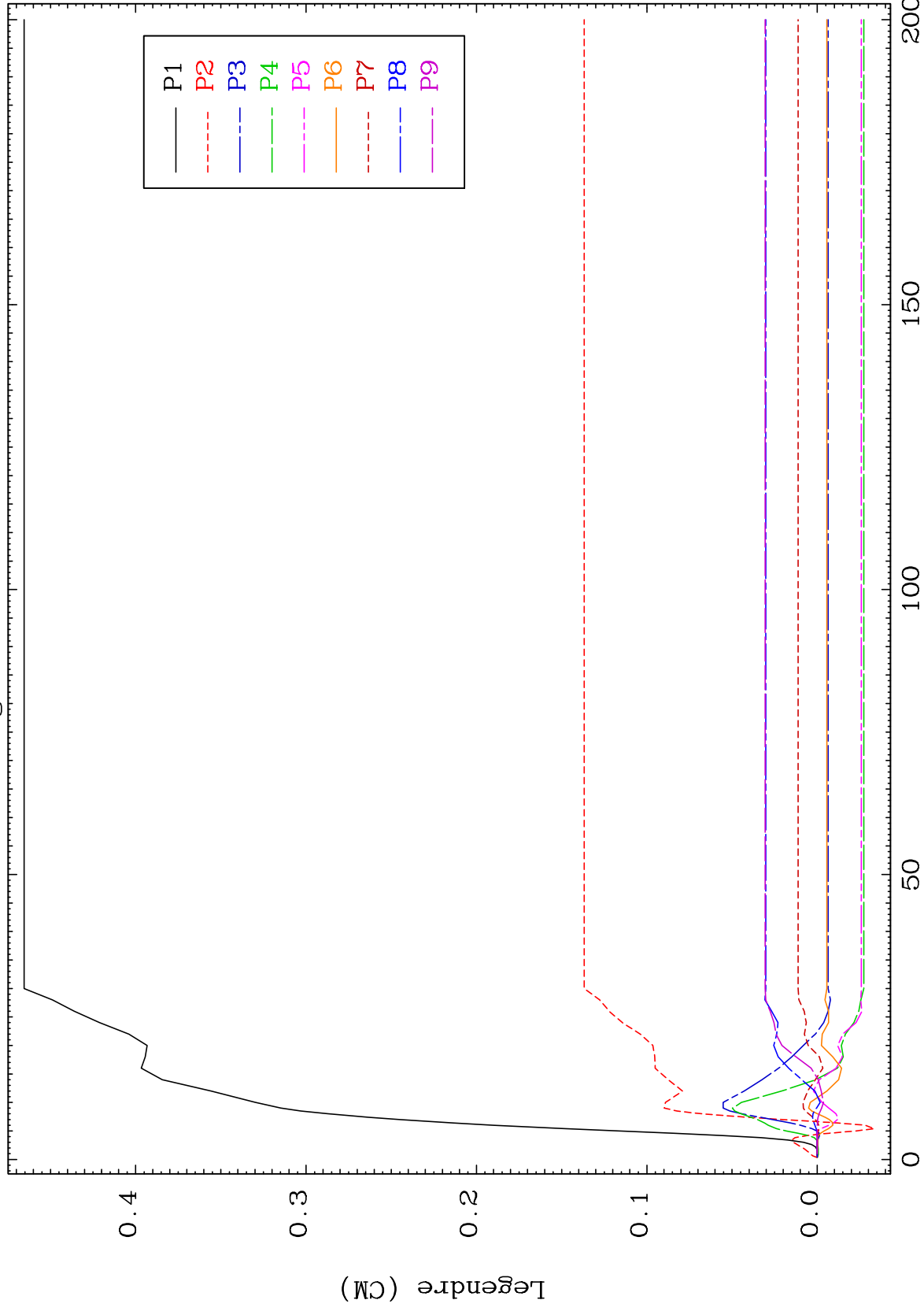




MAT 7316

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

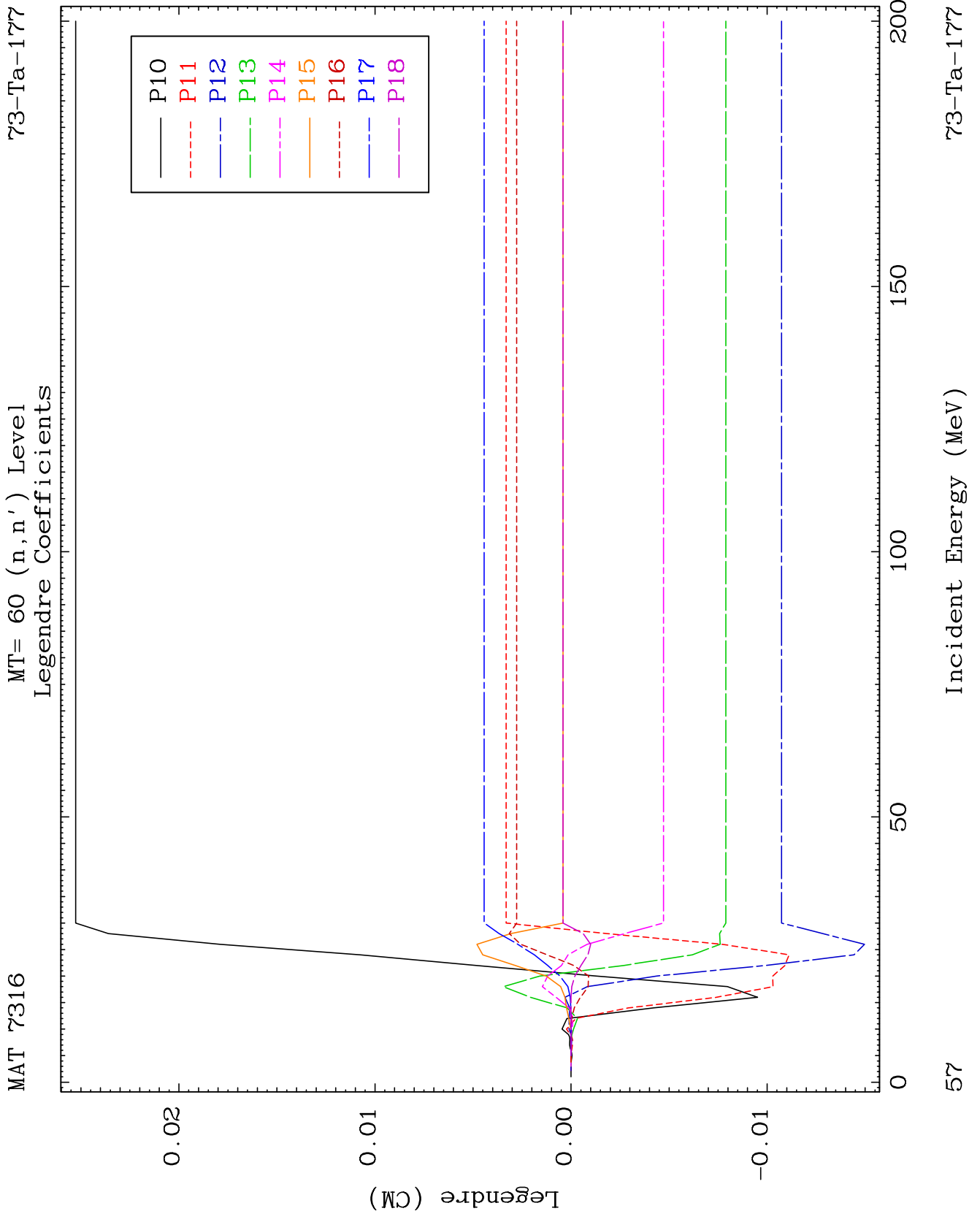
73-Ta-177



73-Ta-177

Incident Energy (MeV)

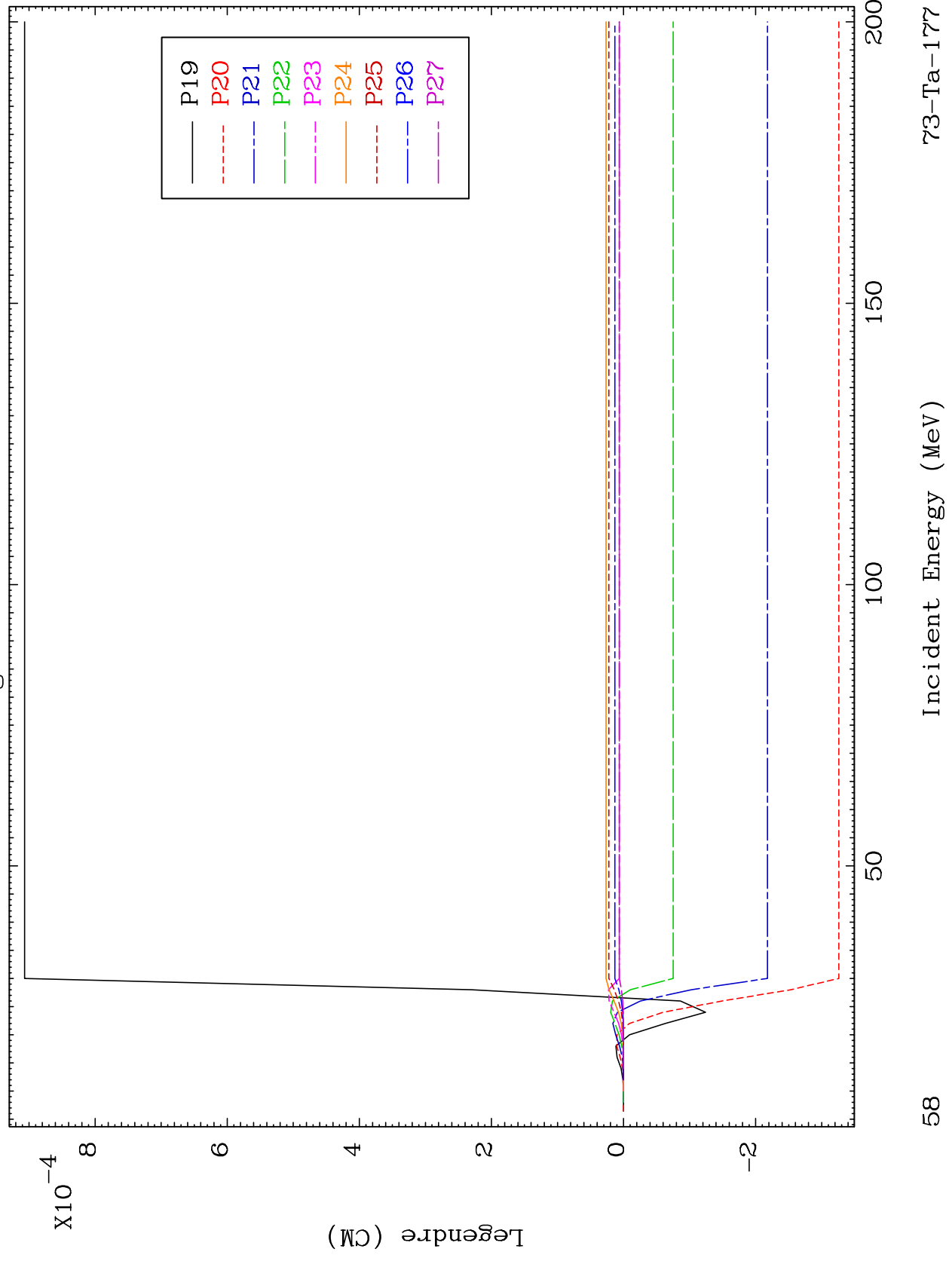
56



MAT 7316

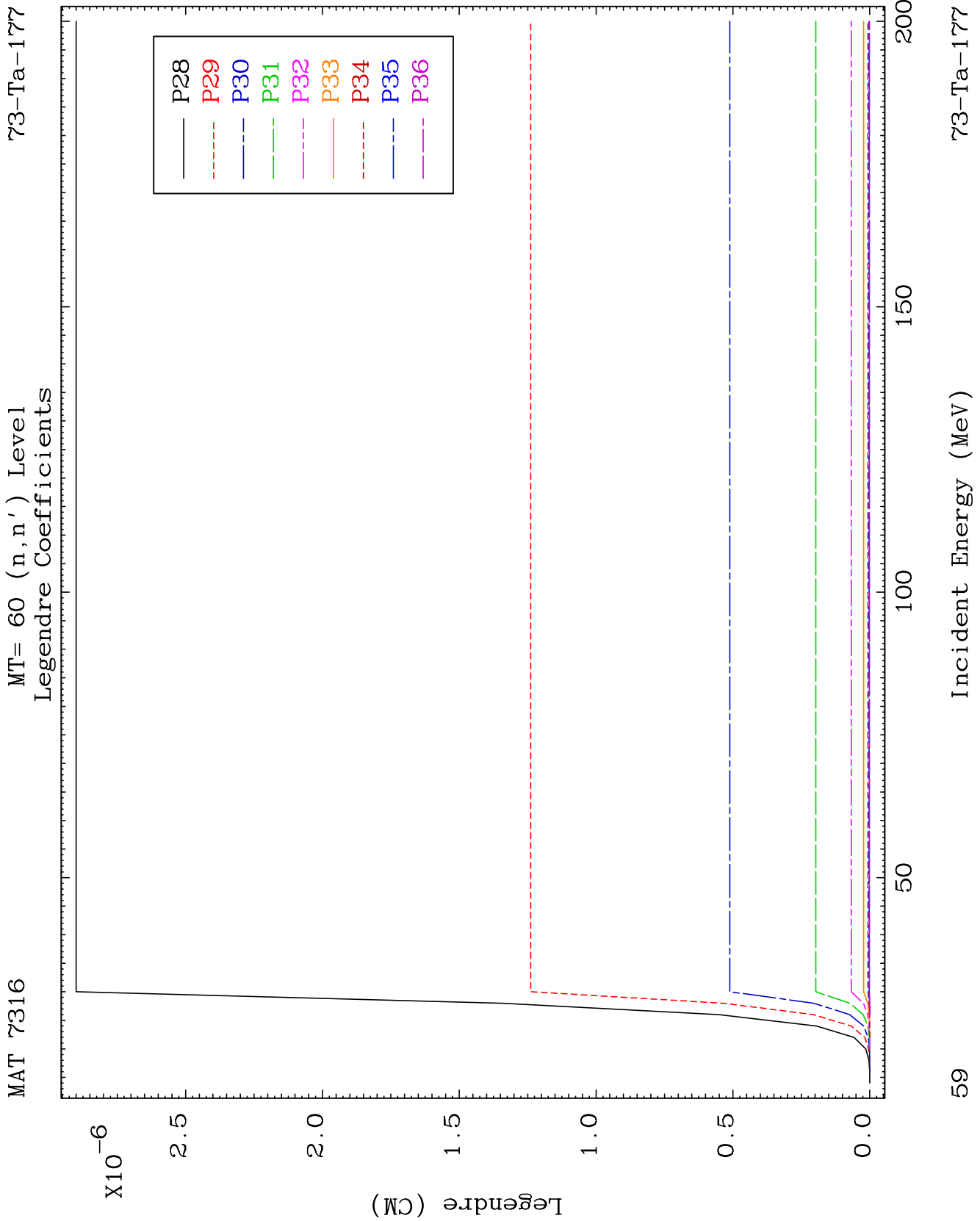
MT= 60 (n,n') Level  
Legendre Coefficients

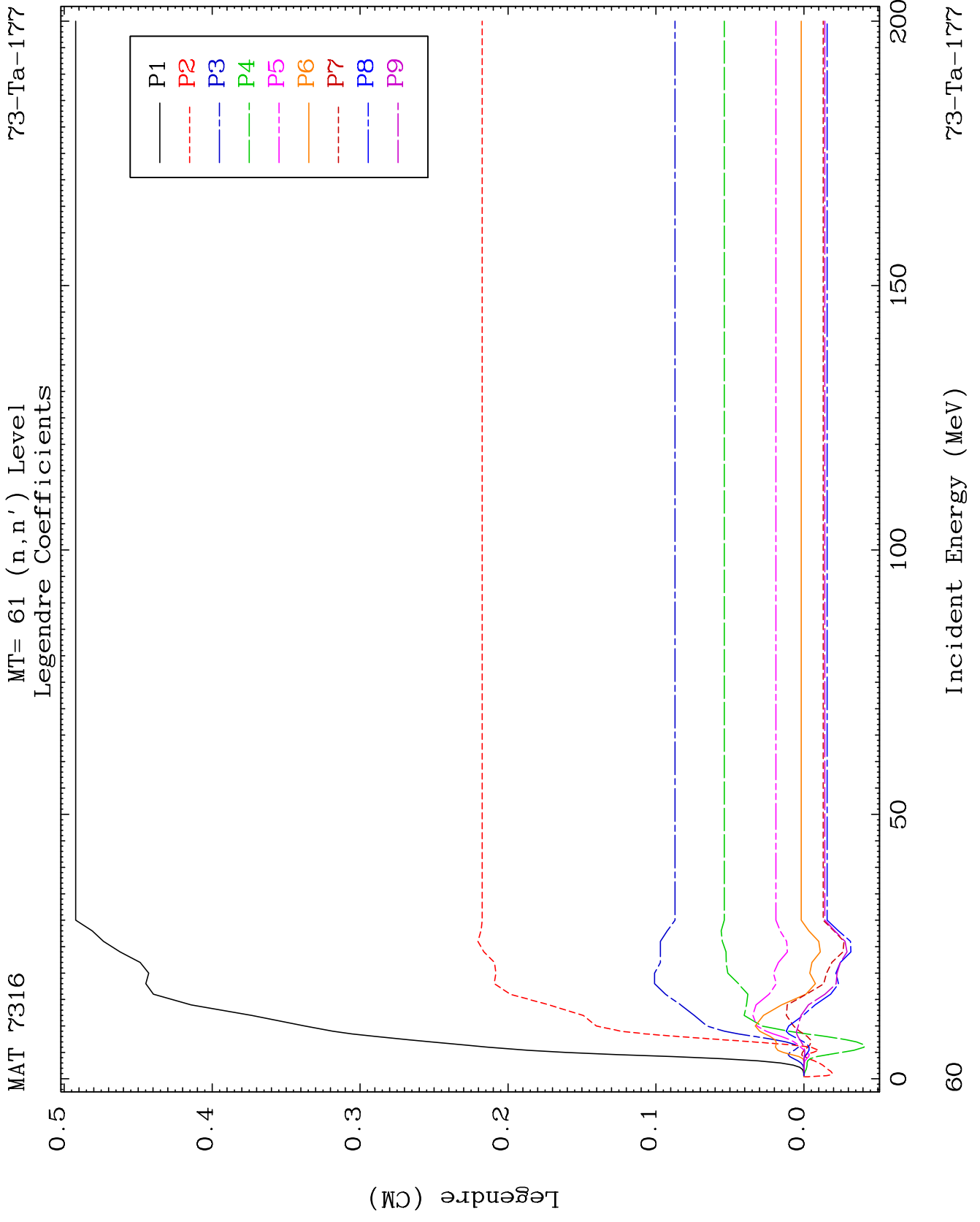
73-Ta-177

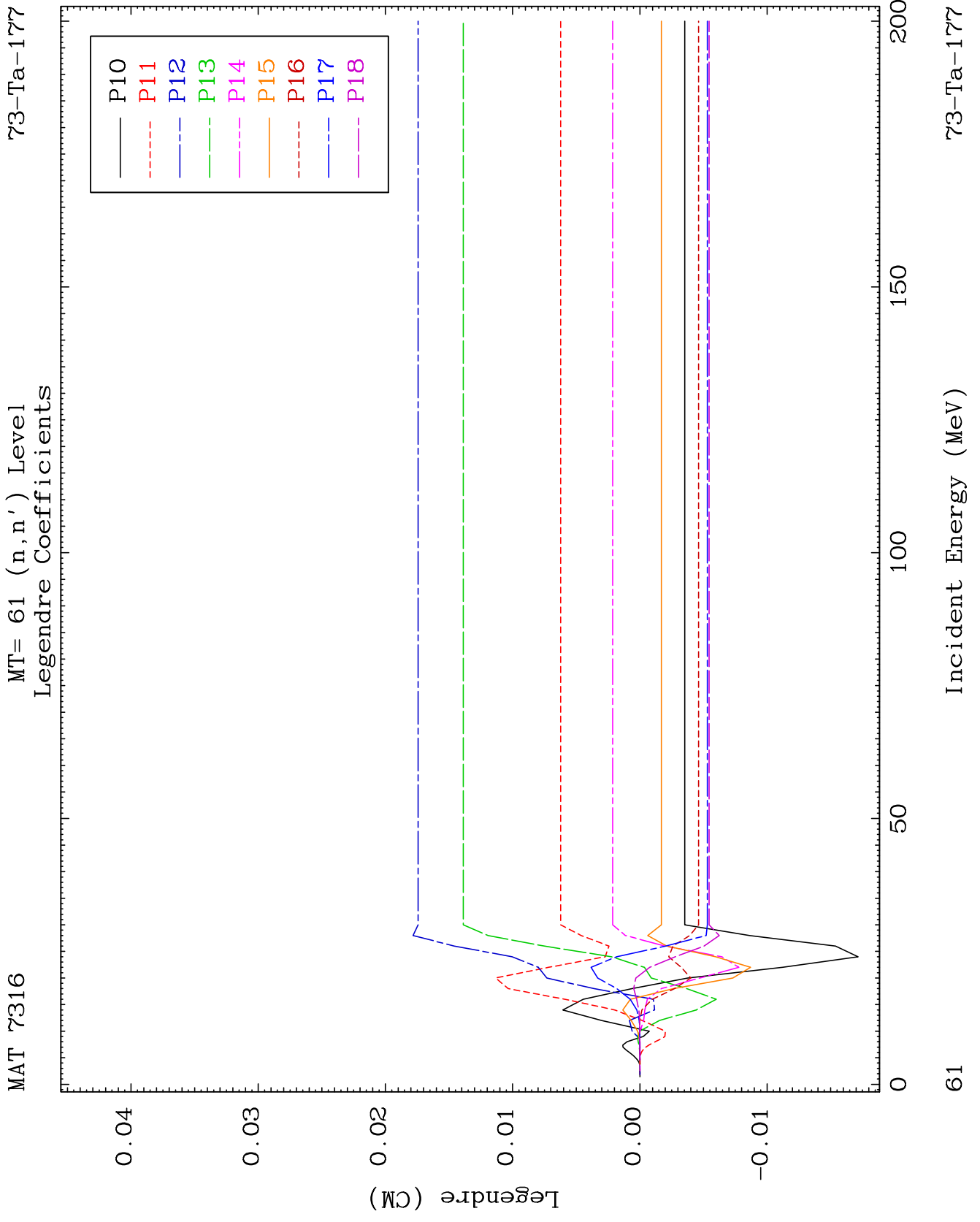


58

73-Ta-177



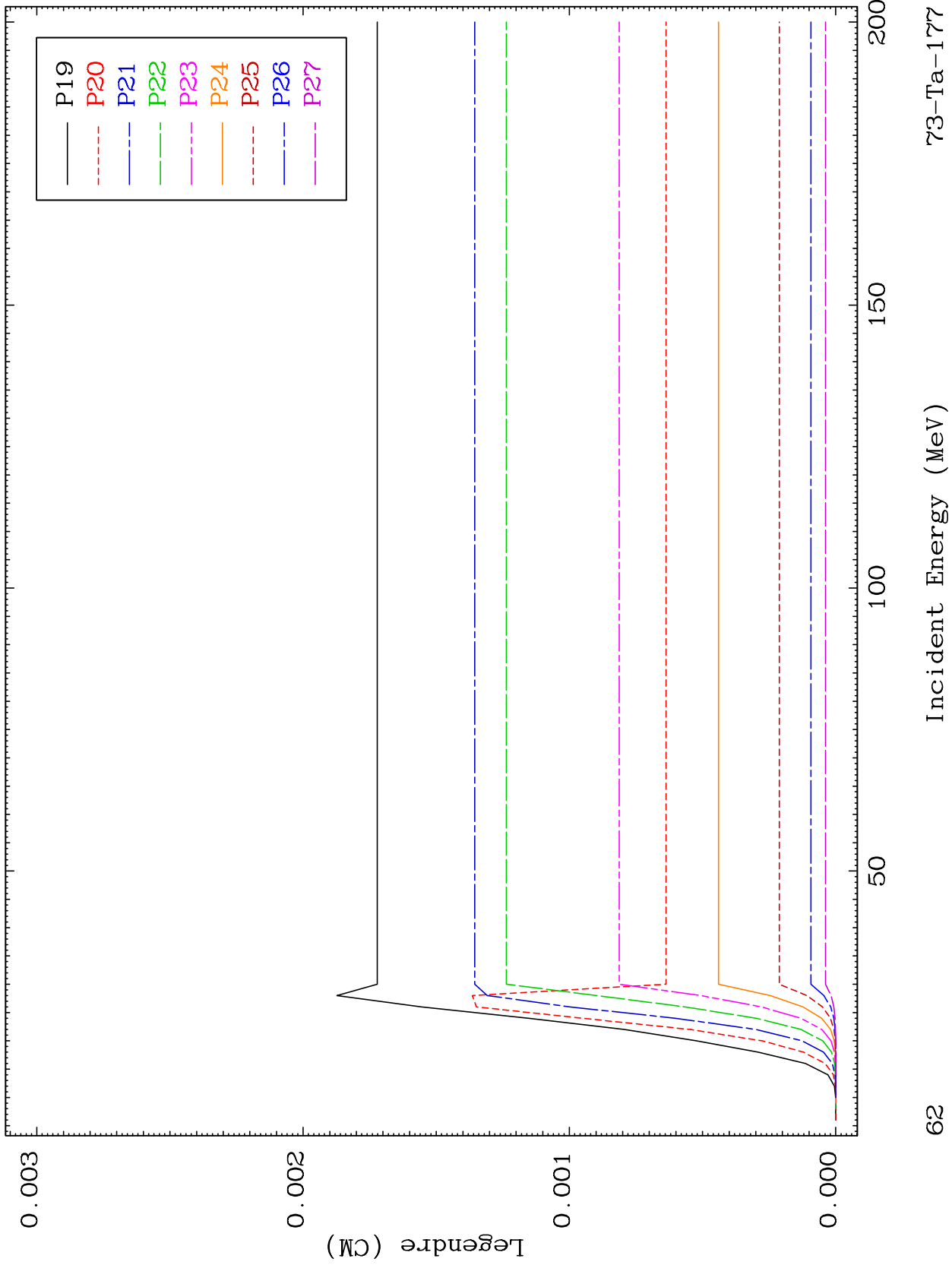




MAT 7316

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

73-Ta-177



62

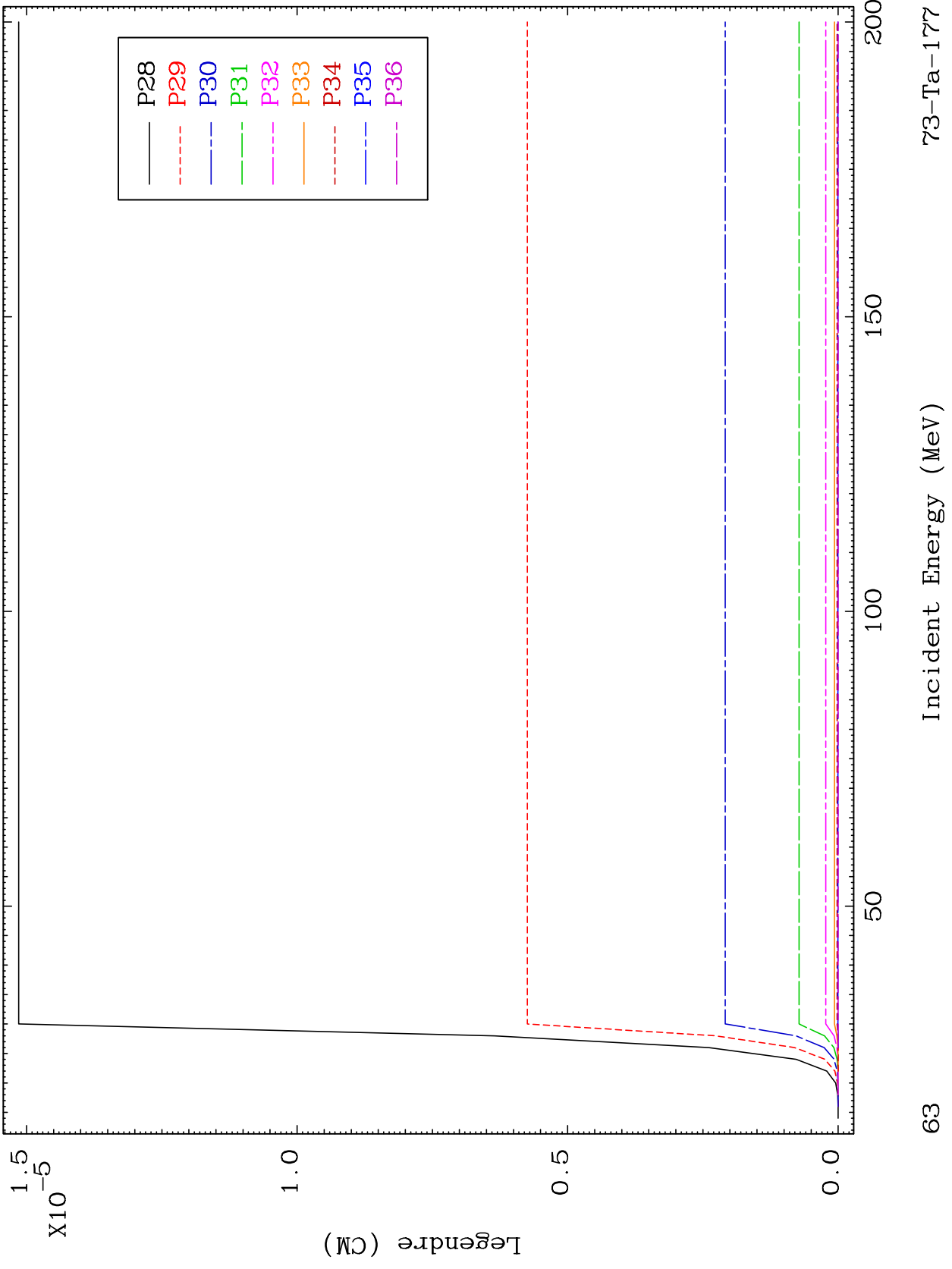
Incident Energy (MeV)

73-Ta-177

MAT 7316

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

73-Ta-177

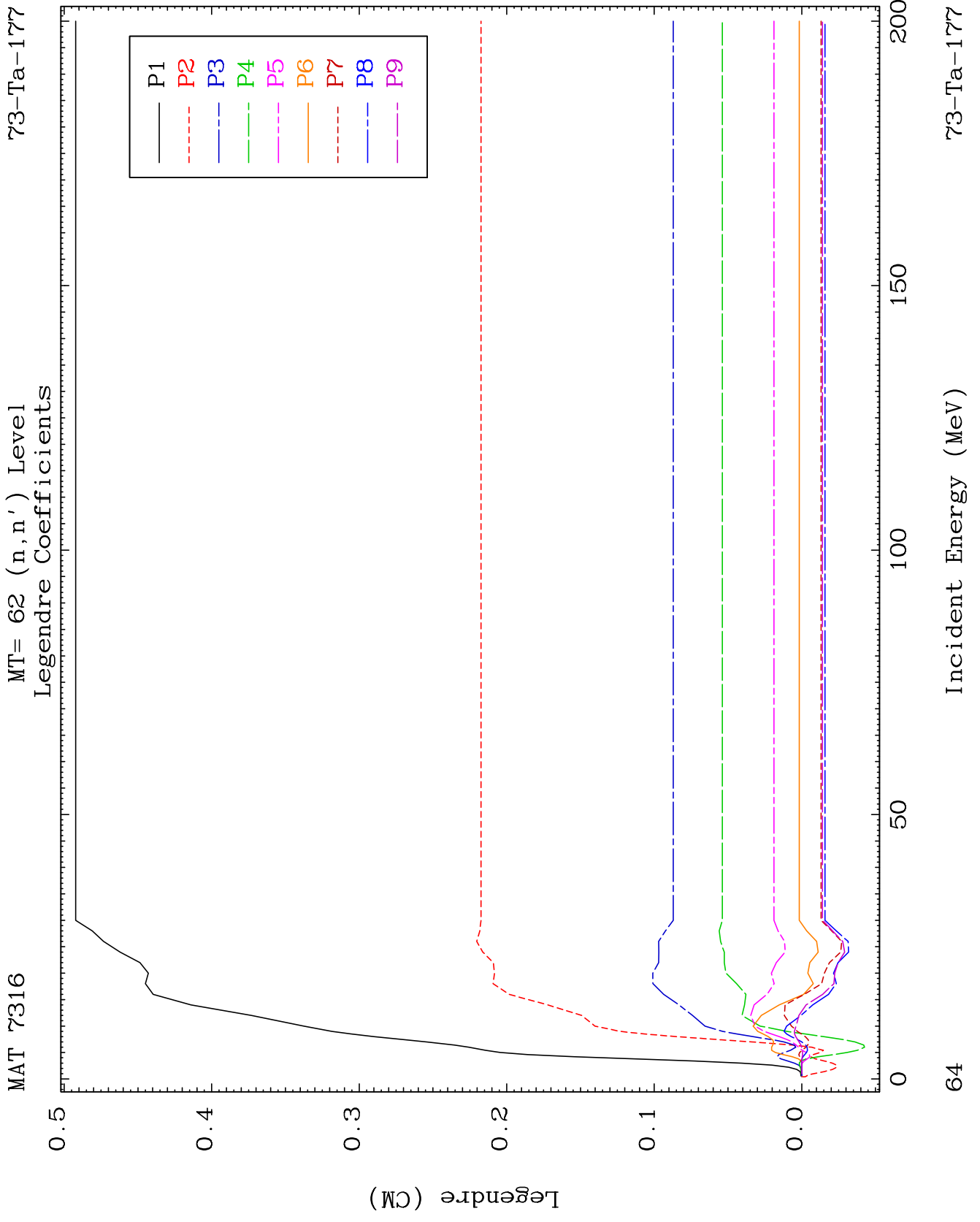


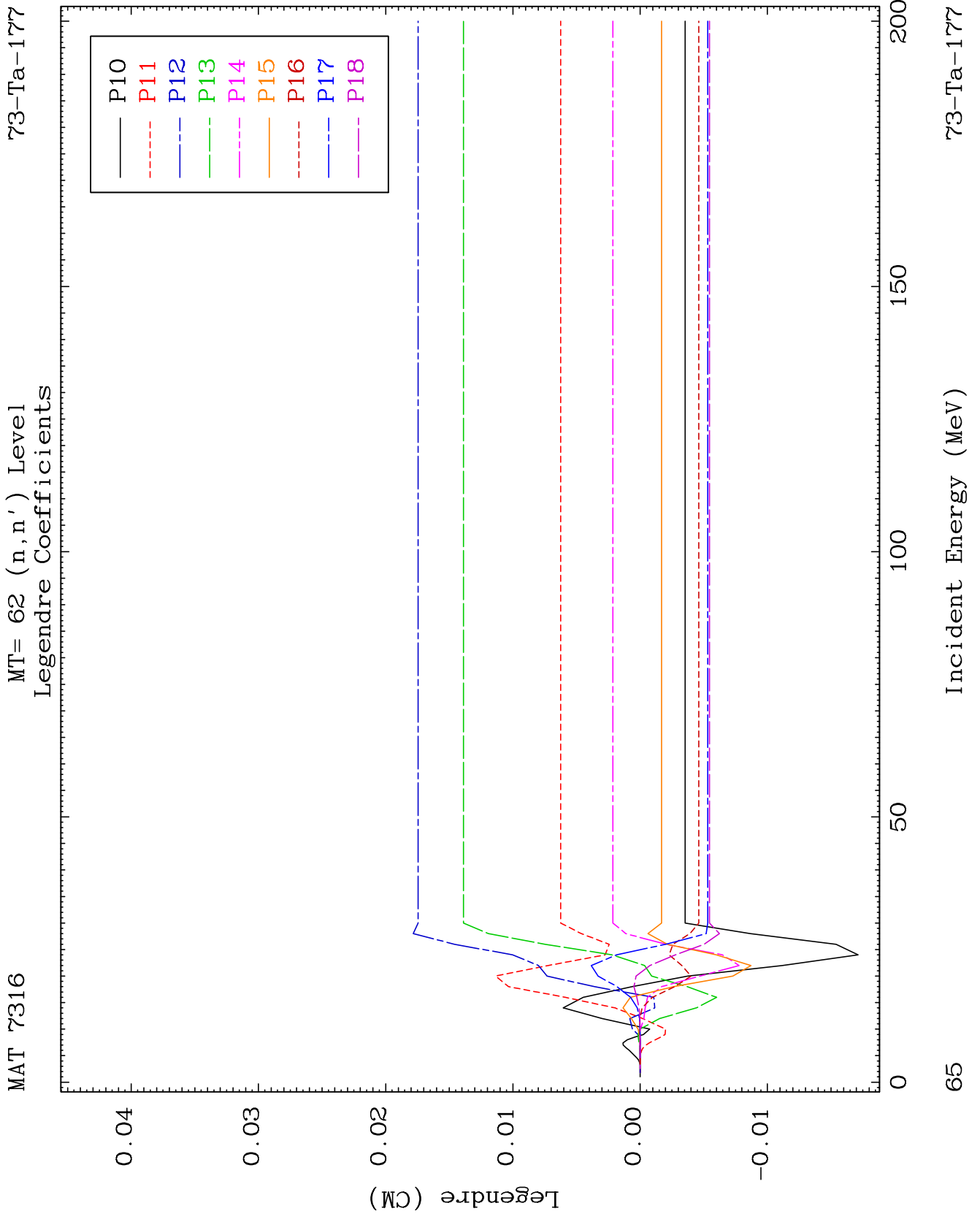
73-Ta-177

Incident Energy (MeV)

63



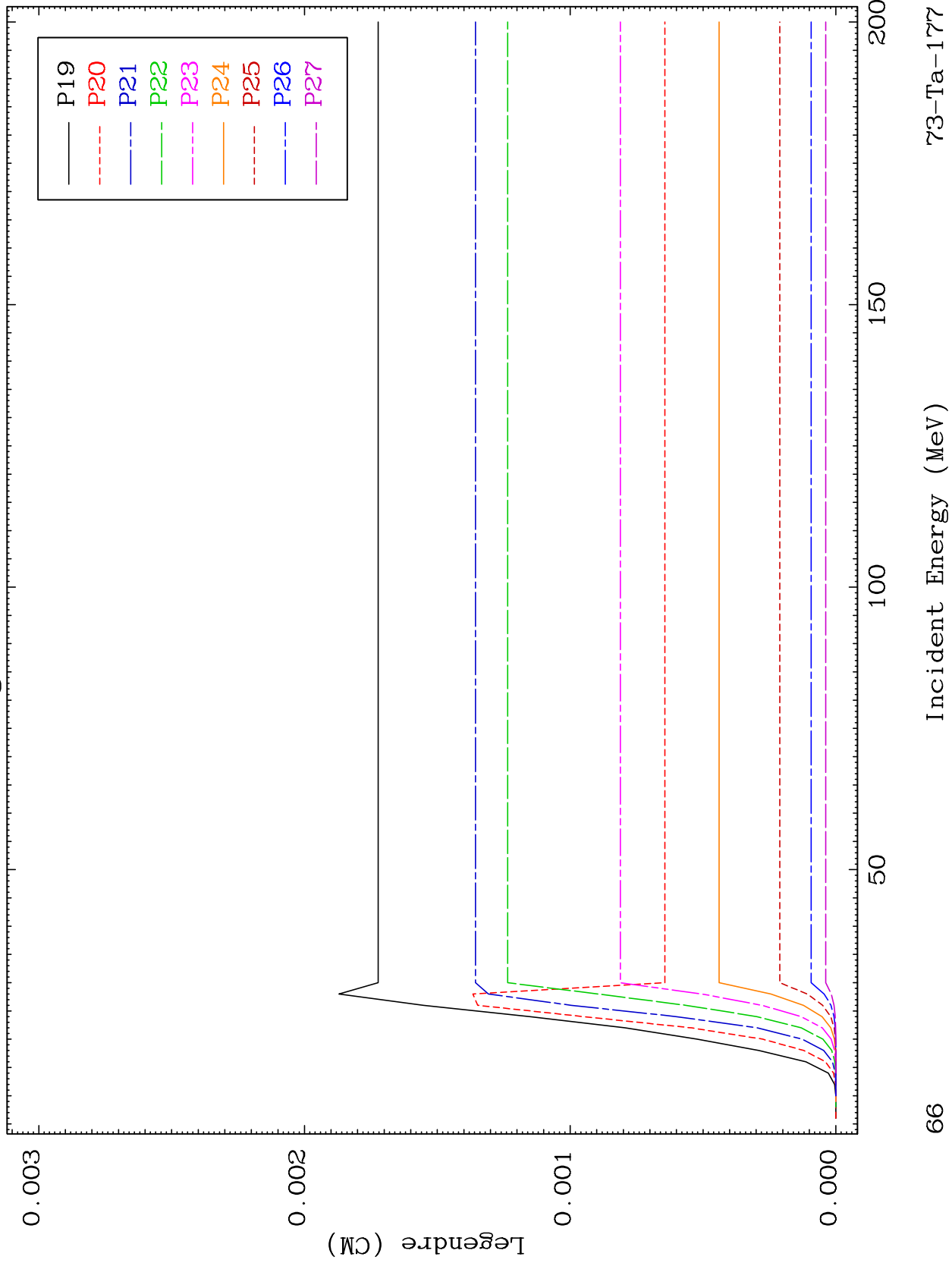




MAT 7316

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

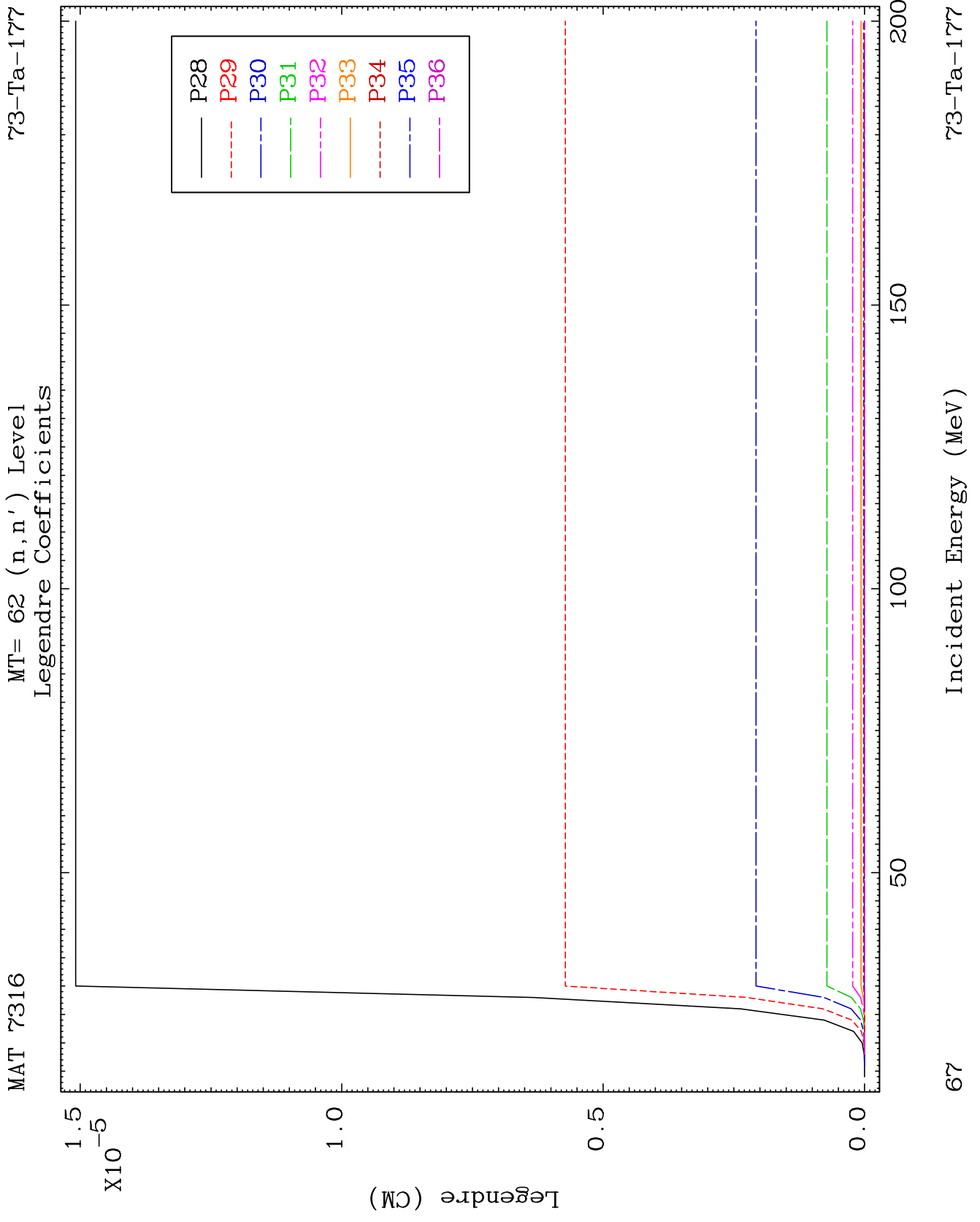
73-Ta-177



66

Incident Energy (MeV)

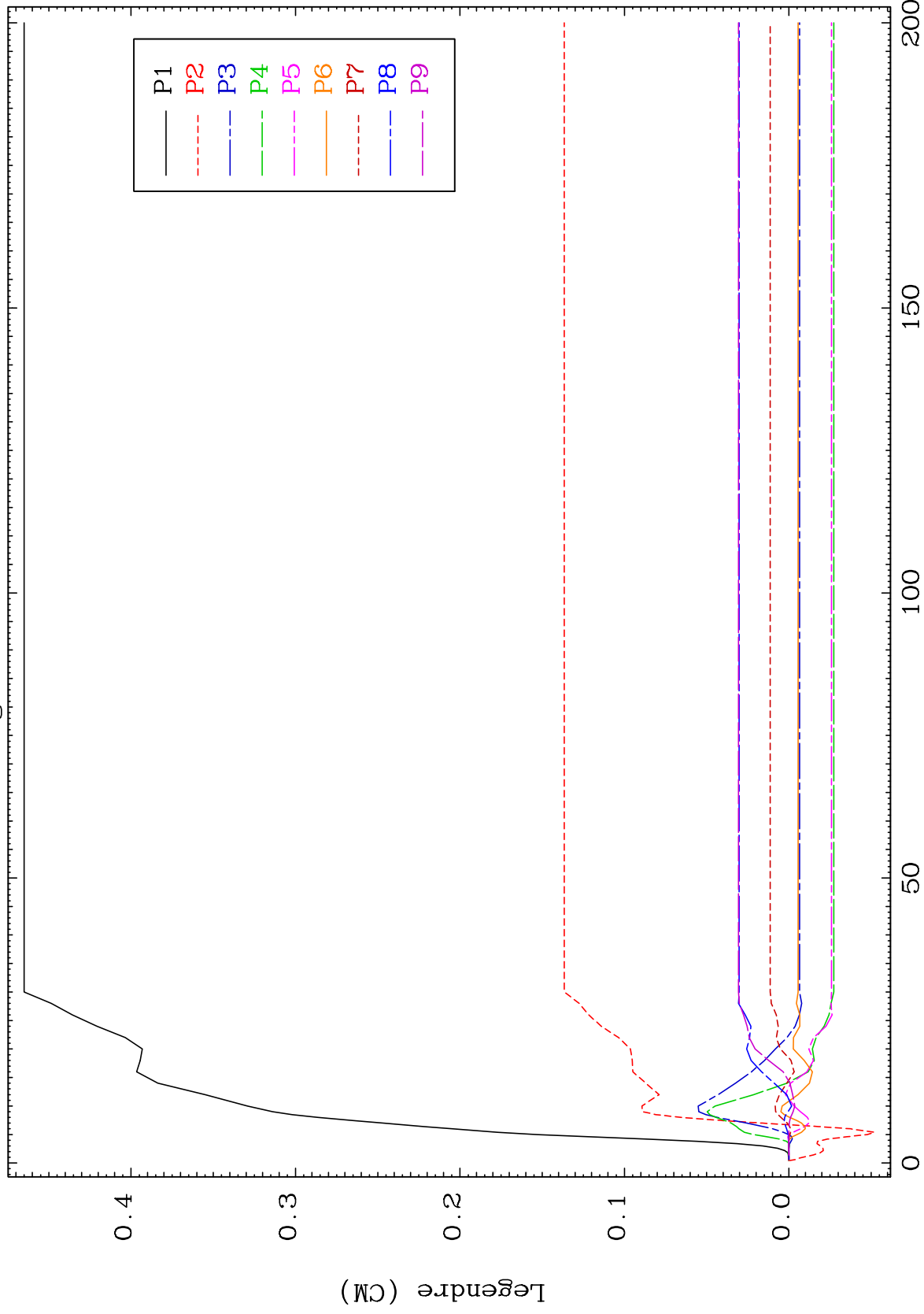
73-Ta-177



MAT 7316

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

73-Ta-177



68

Incident Energy (MeV)

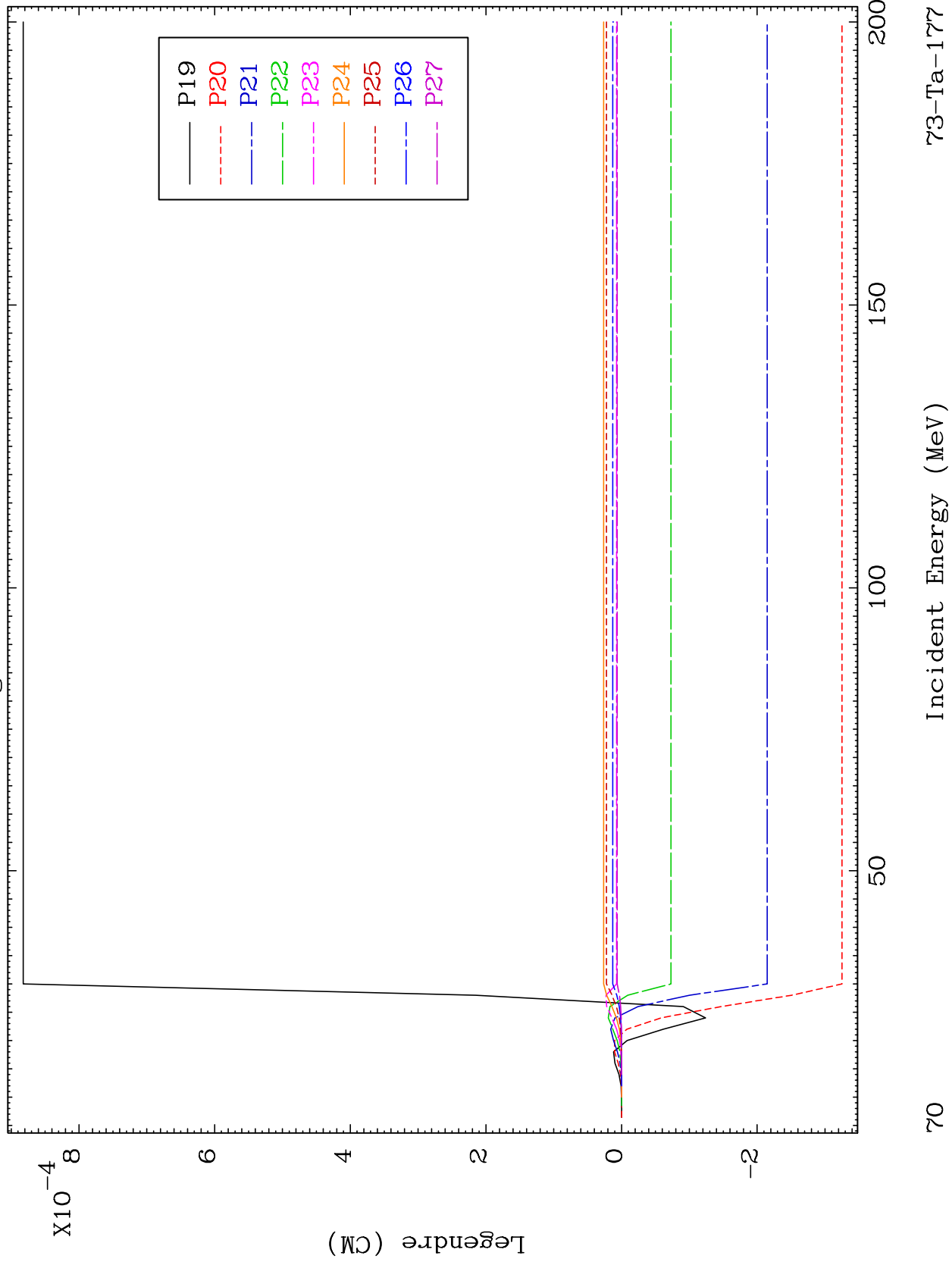
73-Ta-177



MAT 7316

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

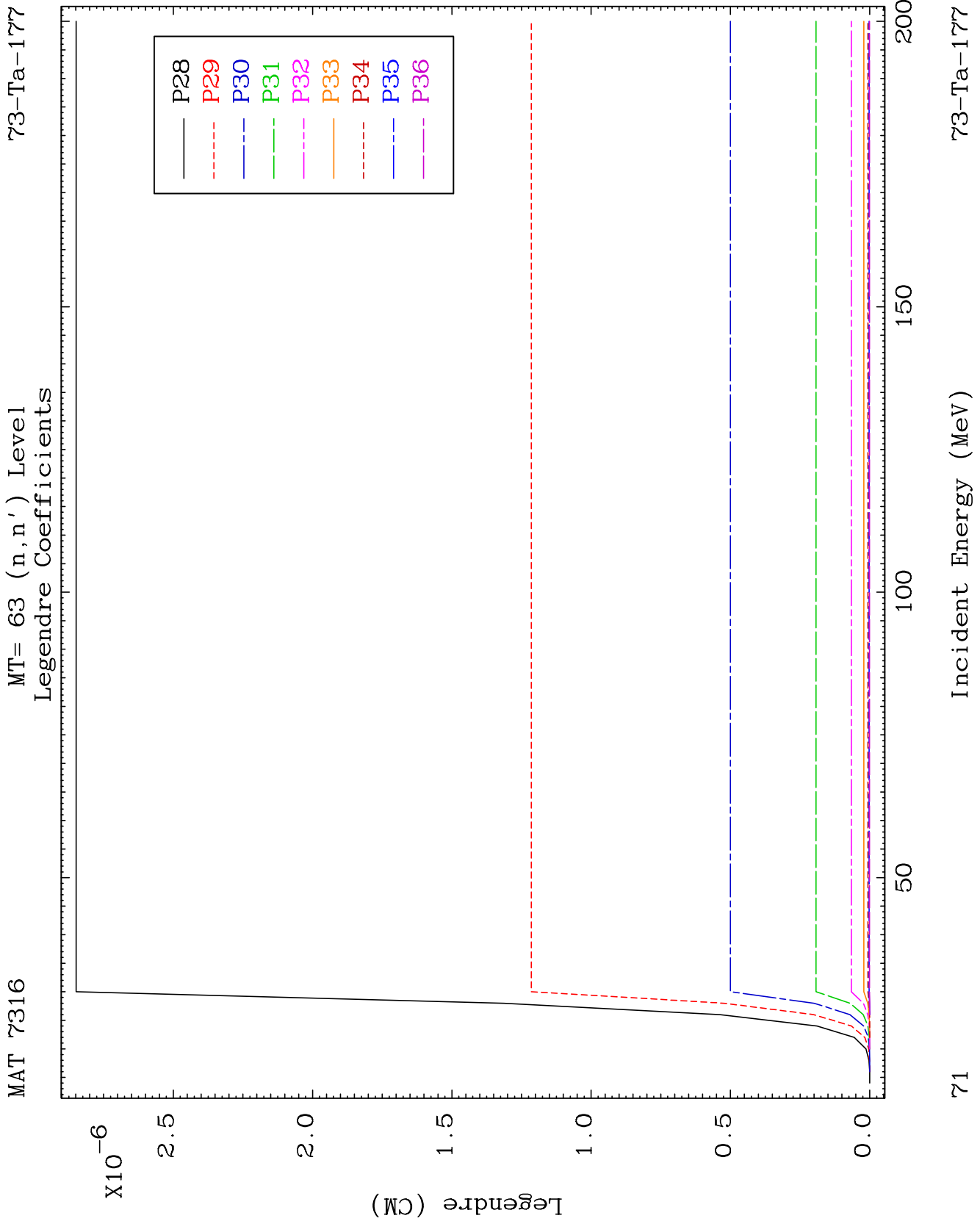
73-Ta-177



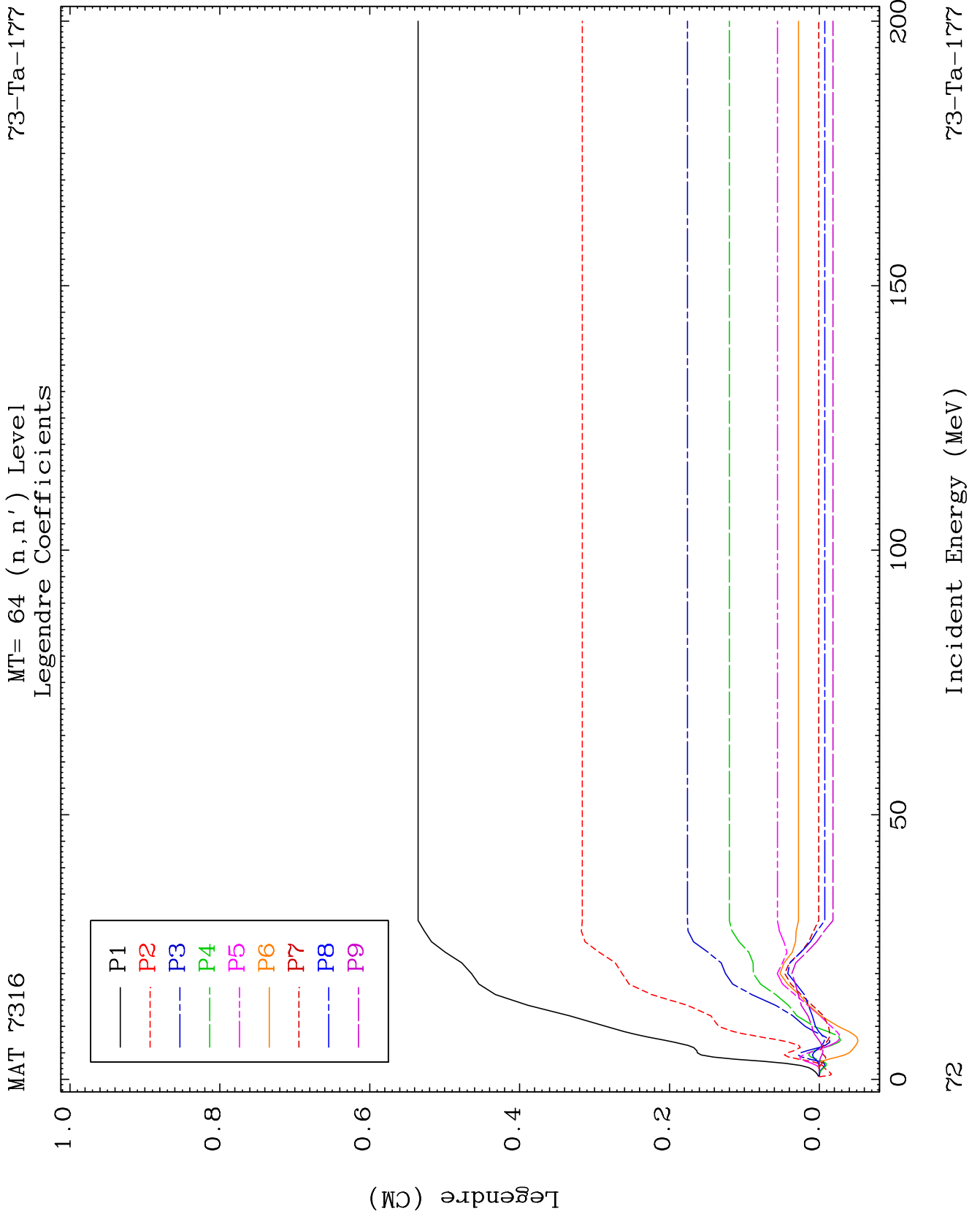
70

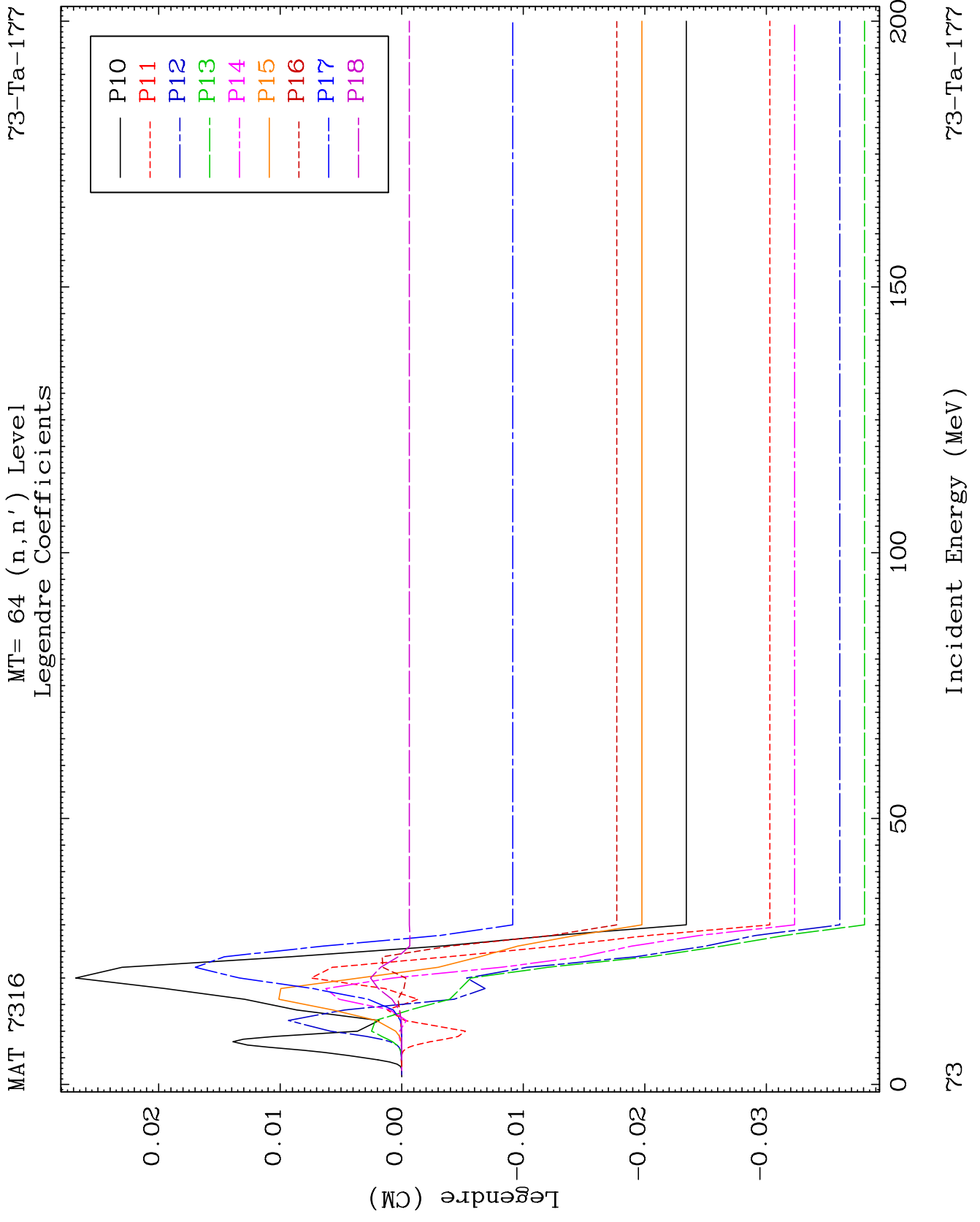
Incident Energy (MeV)

73-Ta-177





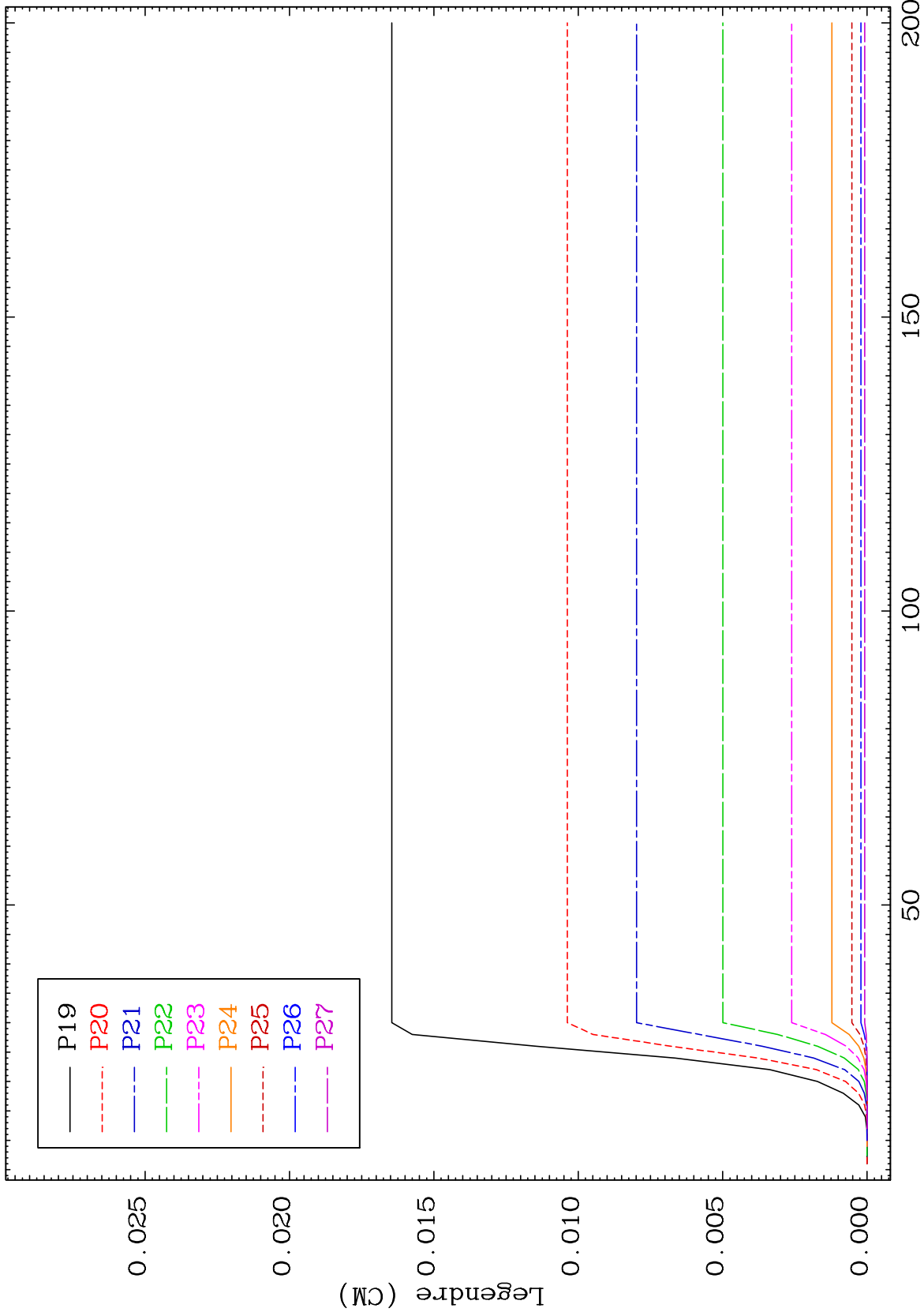




MAT 7316

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

73-Ta-177



74

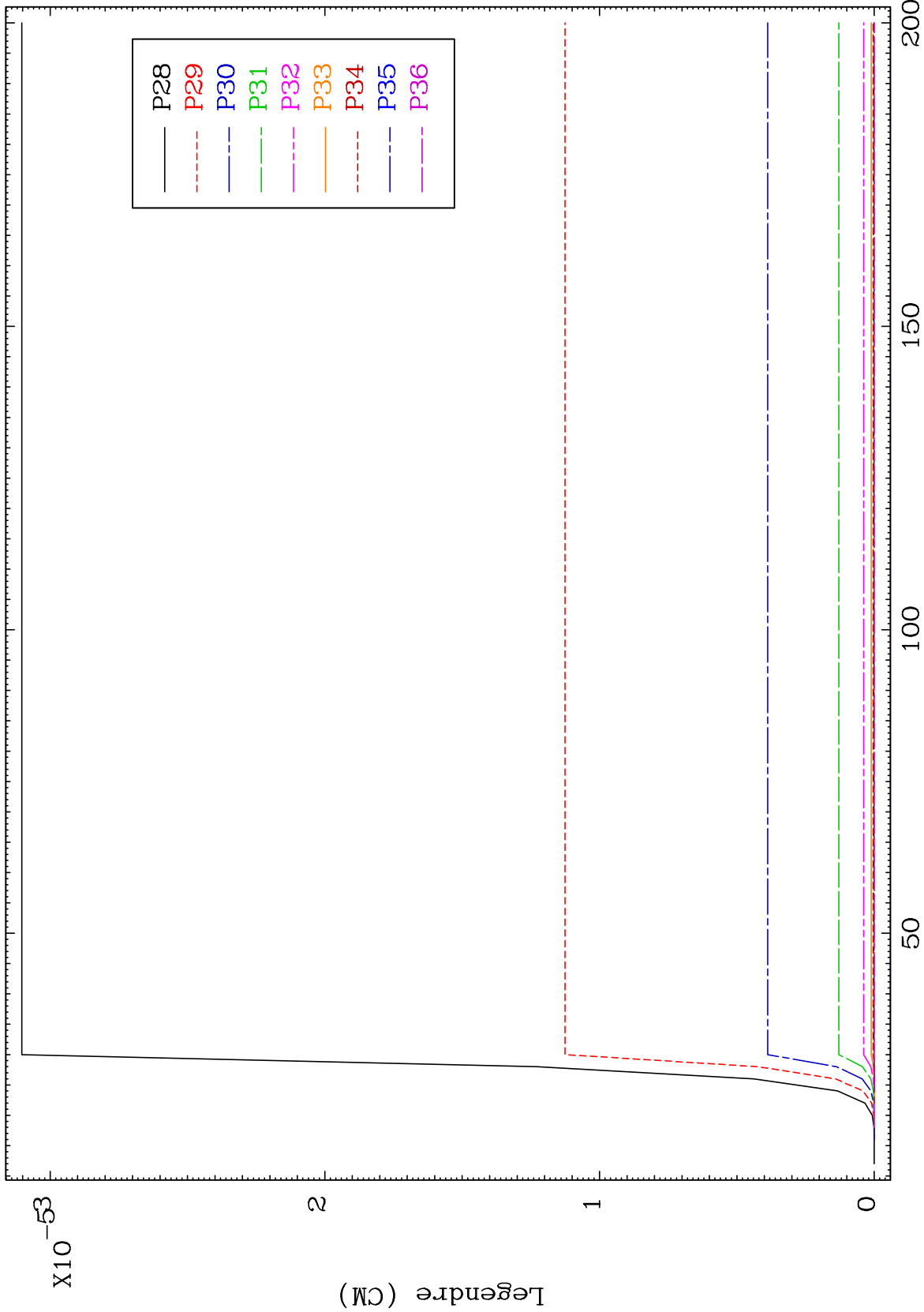
Incident Energy (MeV)

73-Ta-177

MAT 7316

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

73-Ta-177

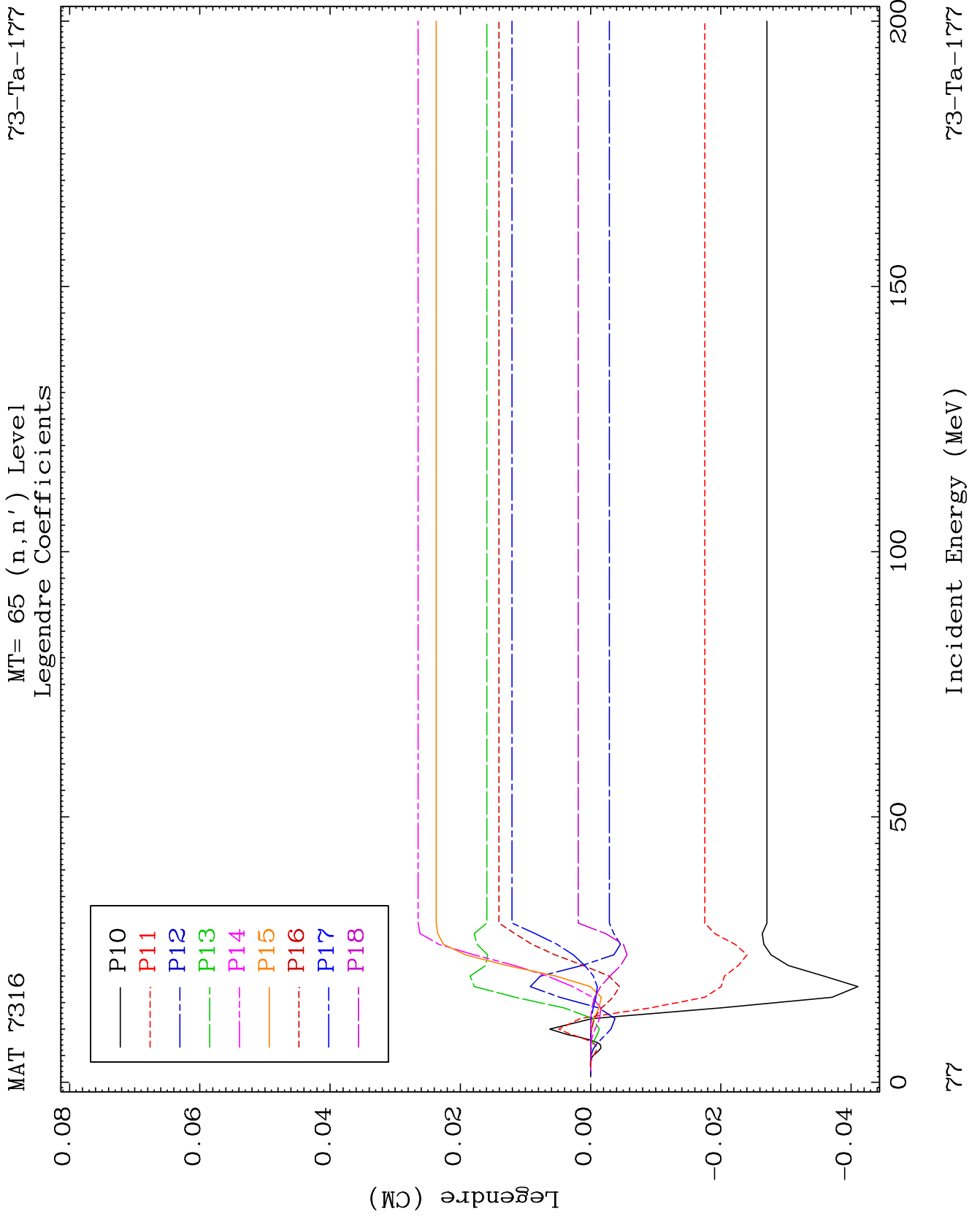


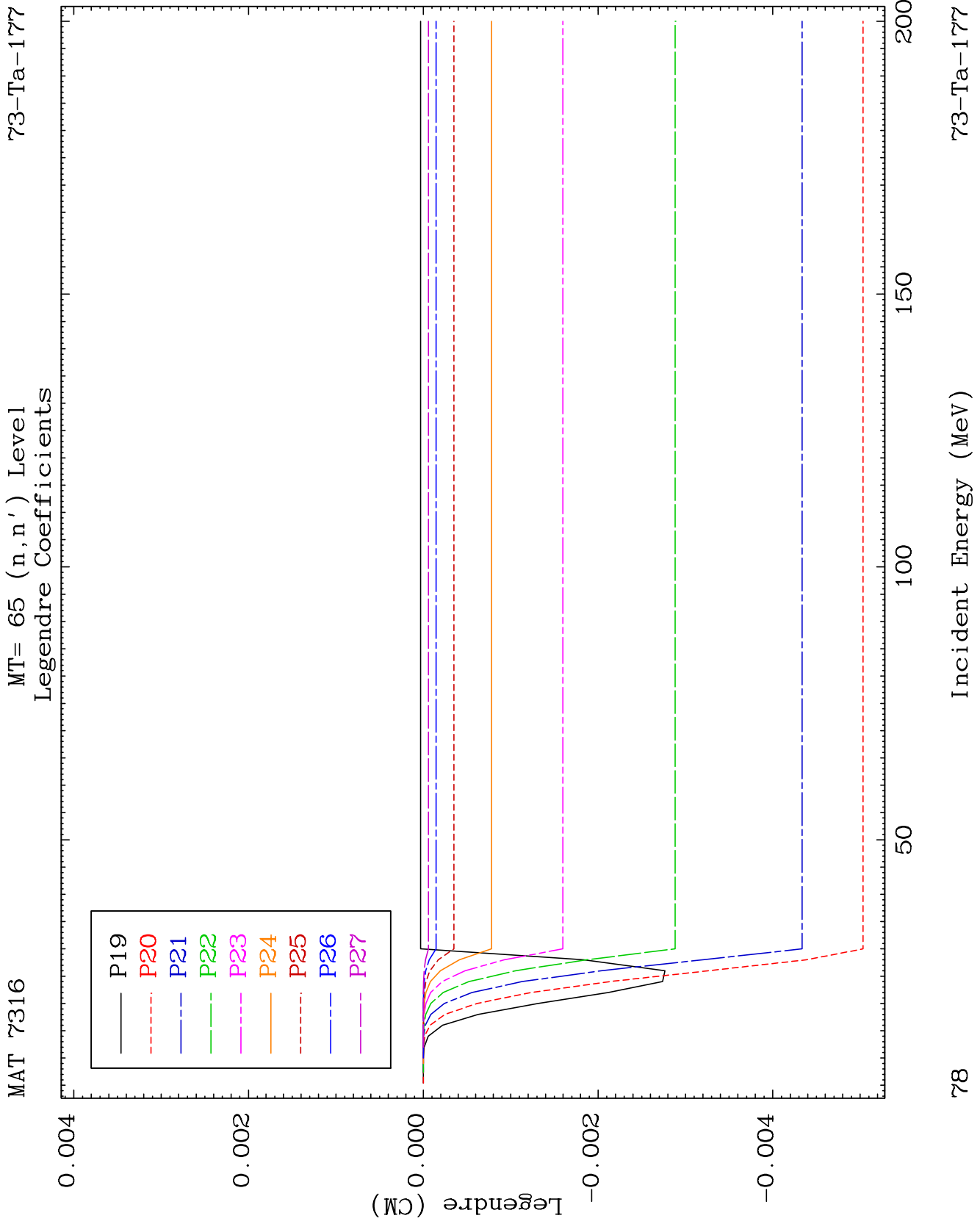
75

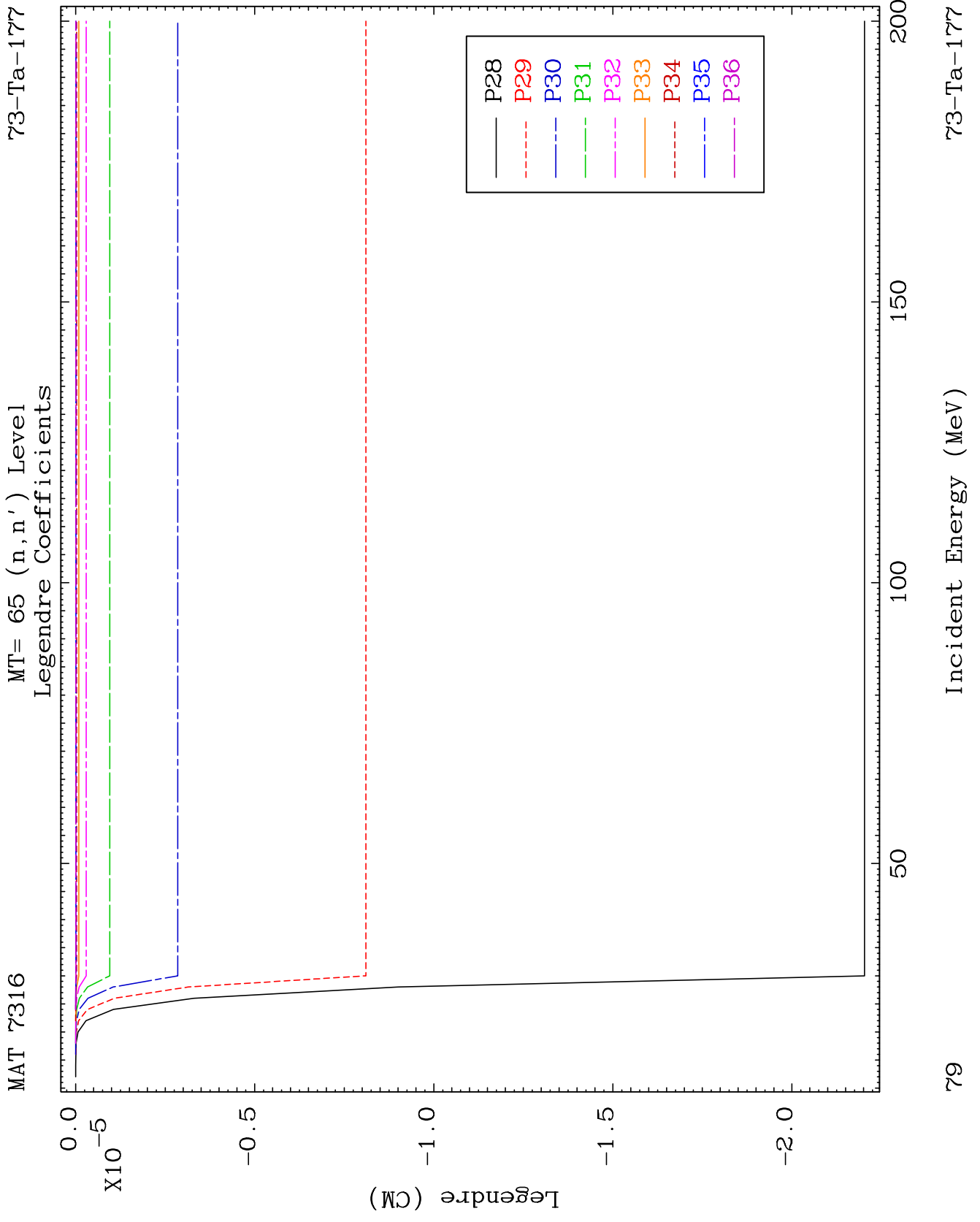
Incident Energy (MeV)

73-Ta-177

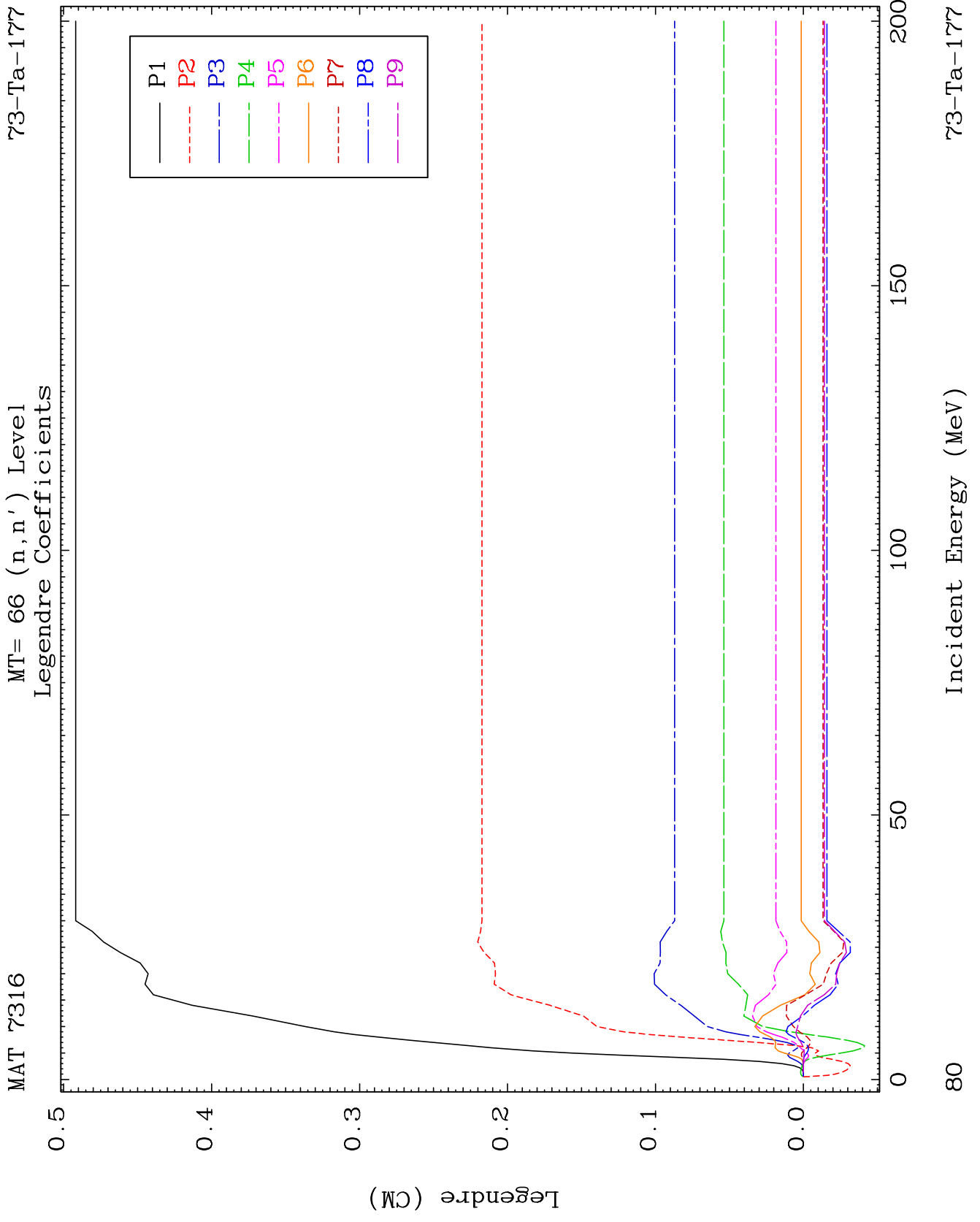








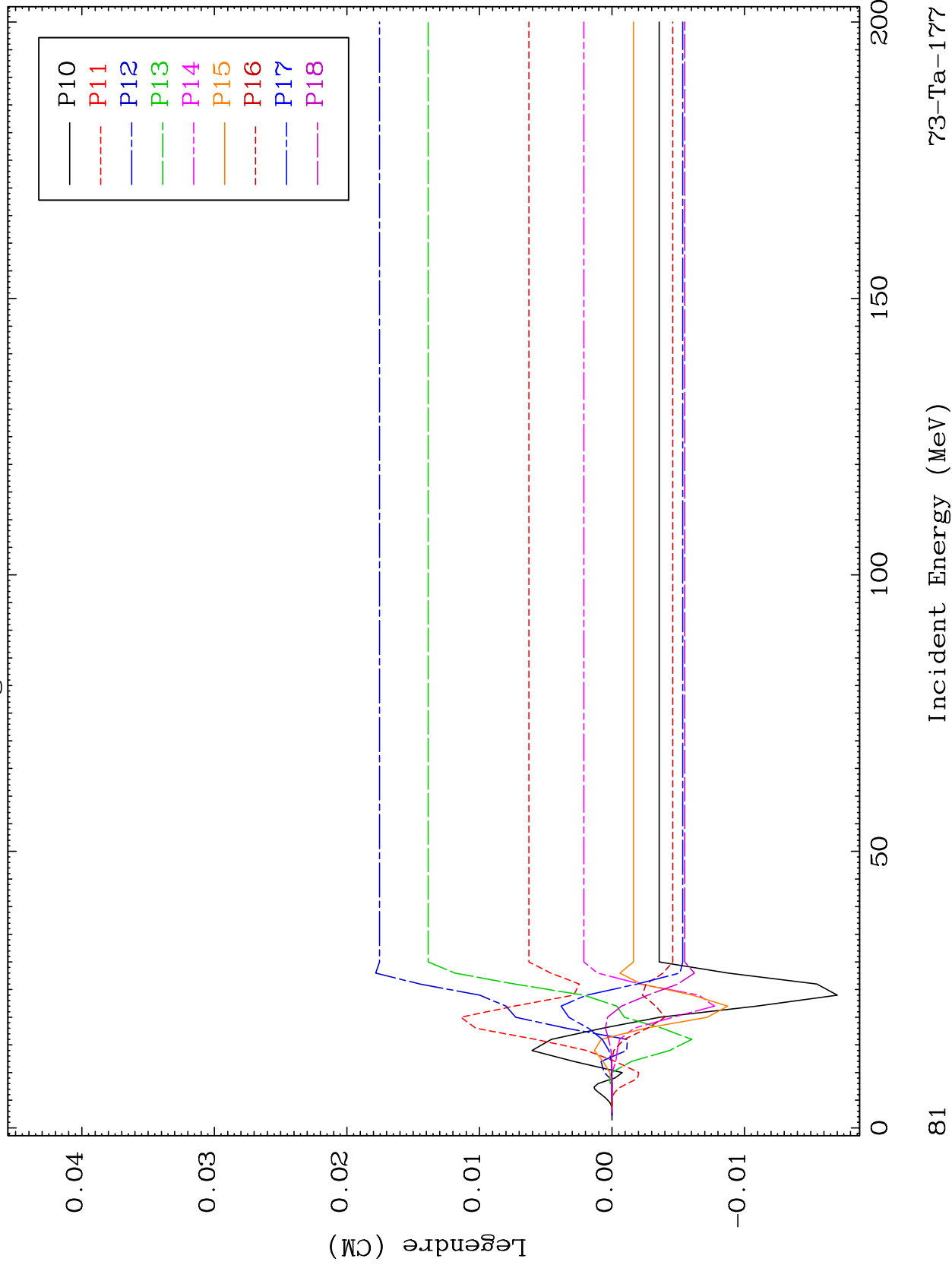




MAT 7316

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

73-Ta-177



81

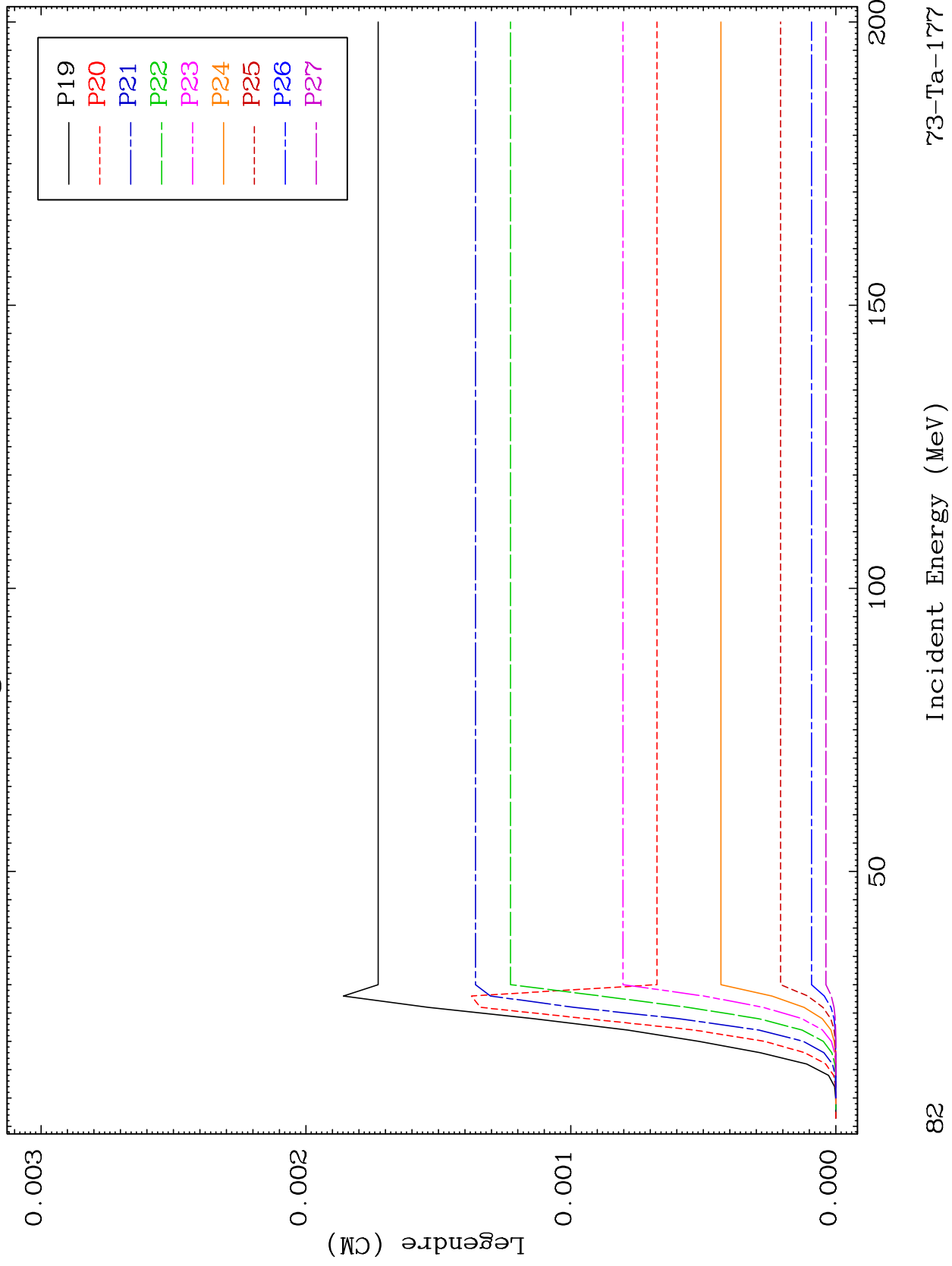
Incident Energy (MeV)

73-Ta-177

MAT 7316

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

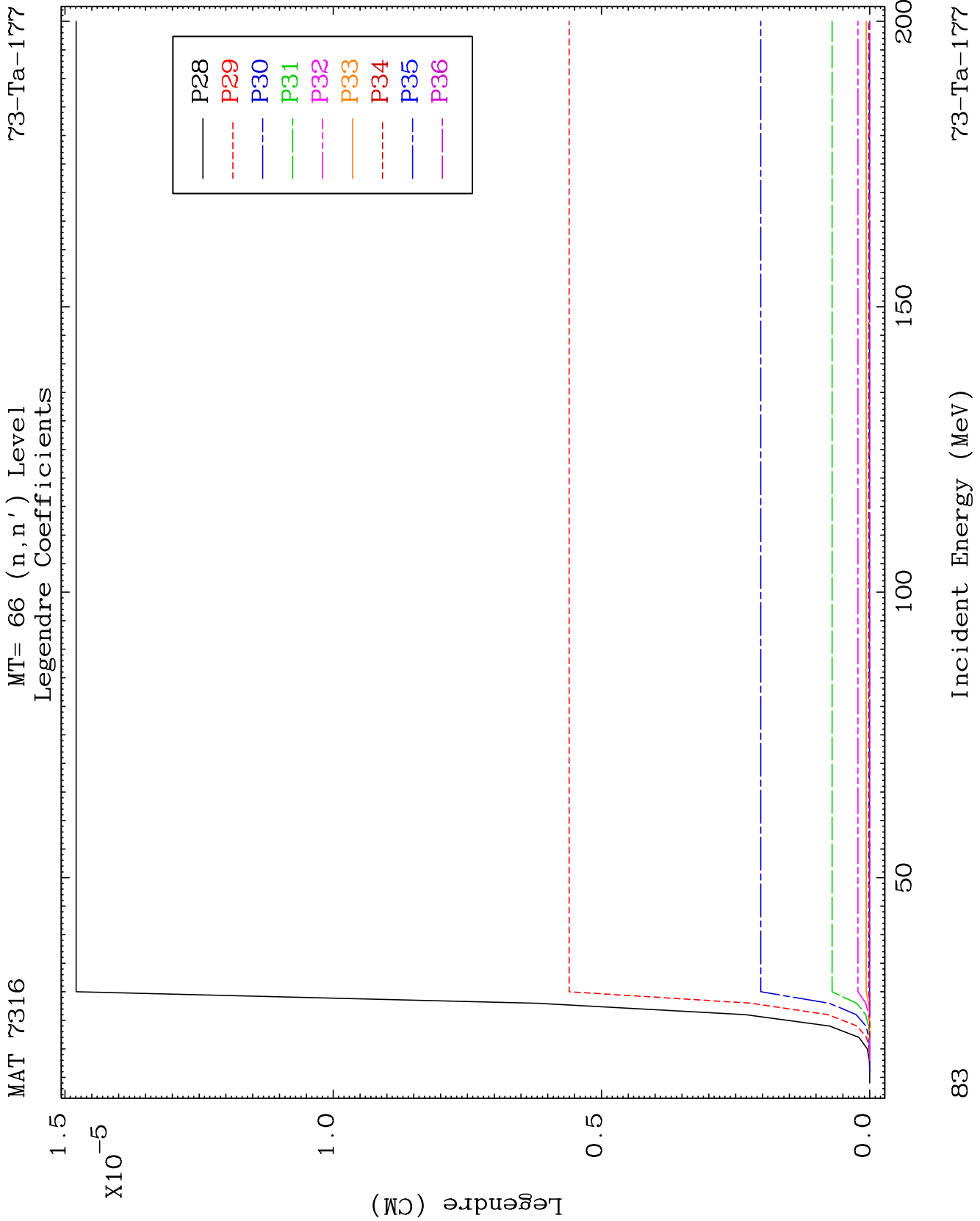
73-Ta-177

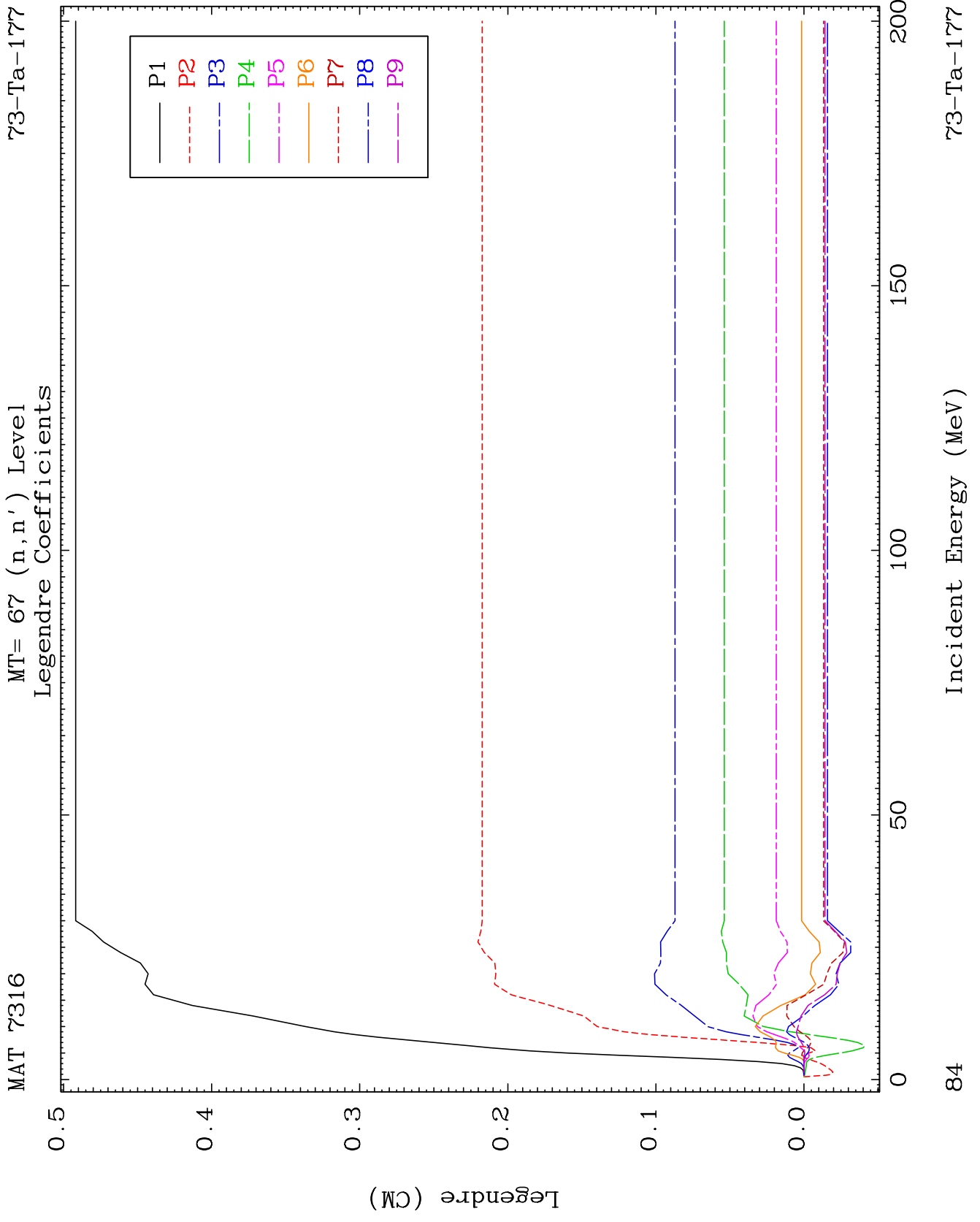


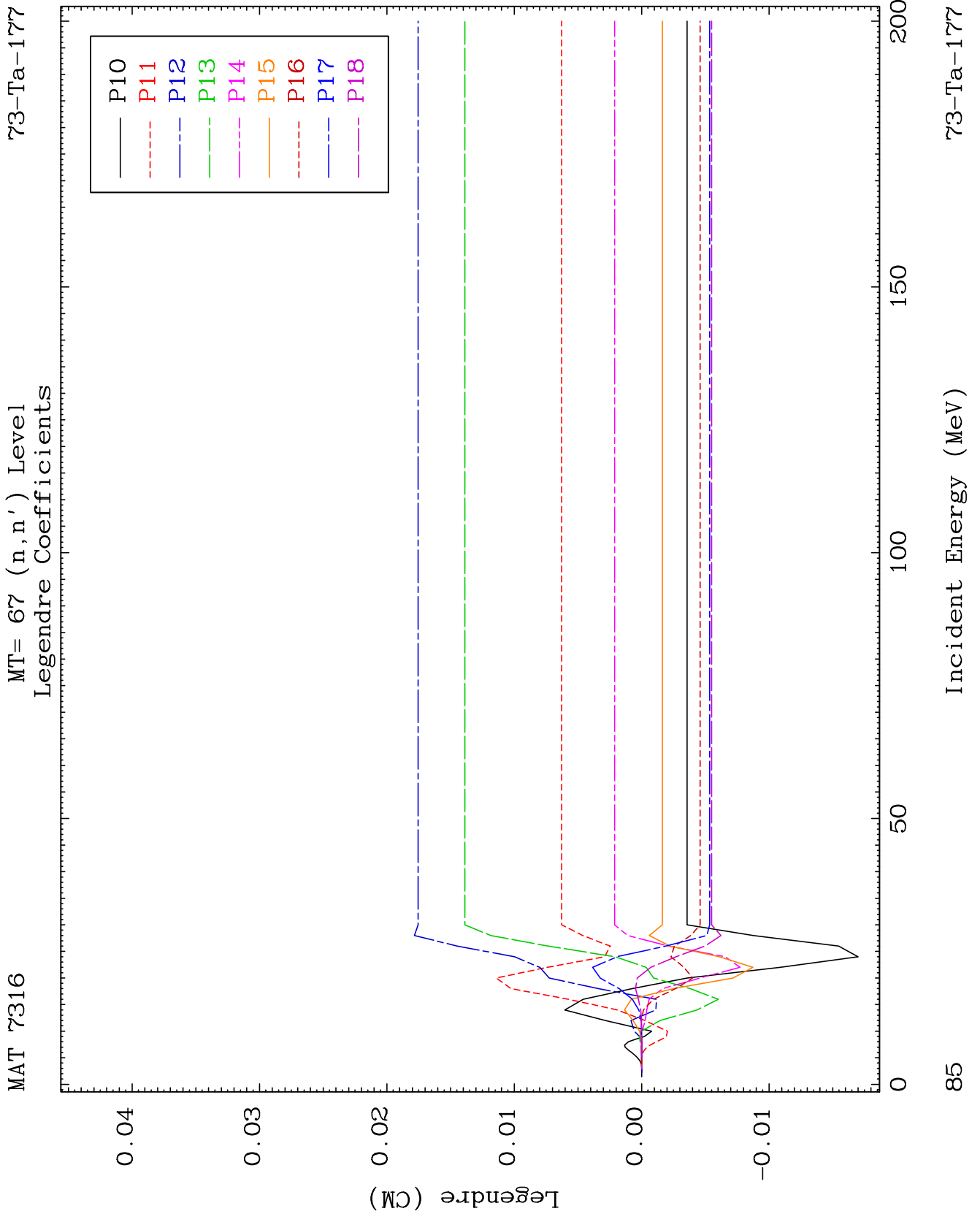
82

Incident Energy (MeV)

73-Ta-177



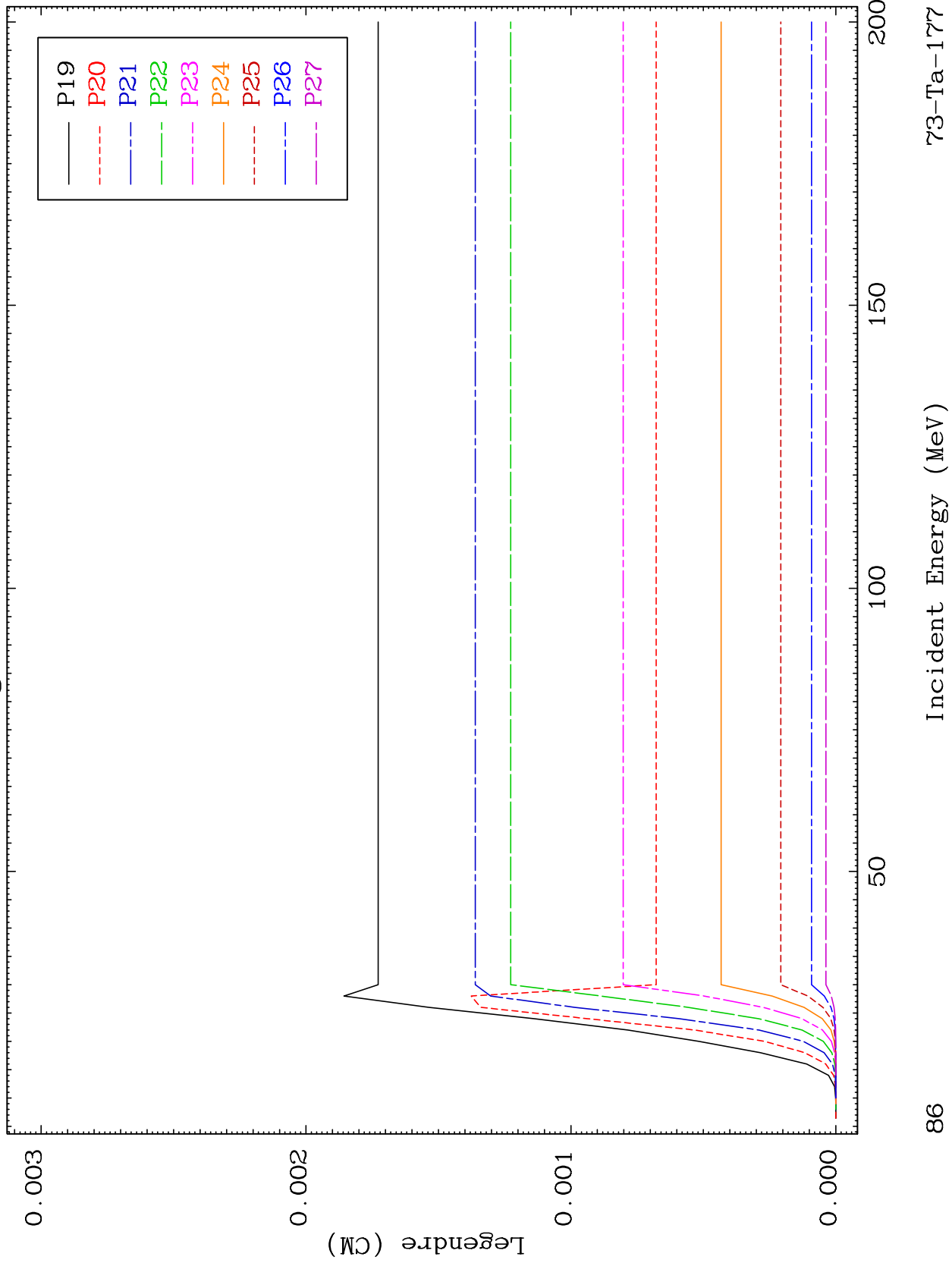




MAT 7316

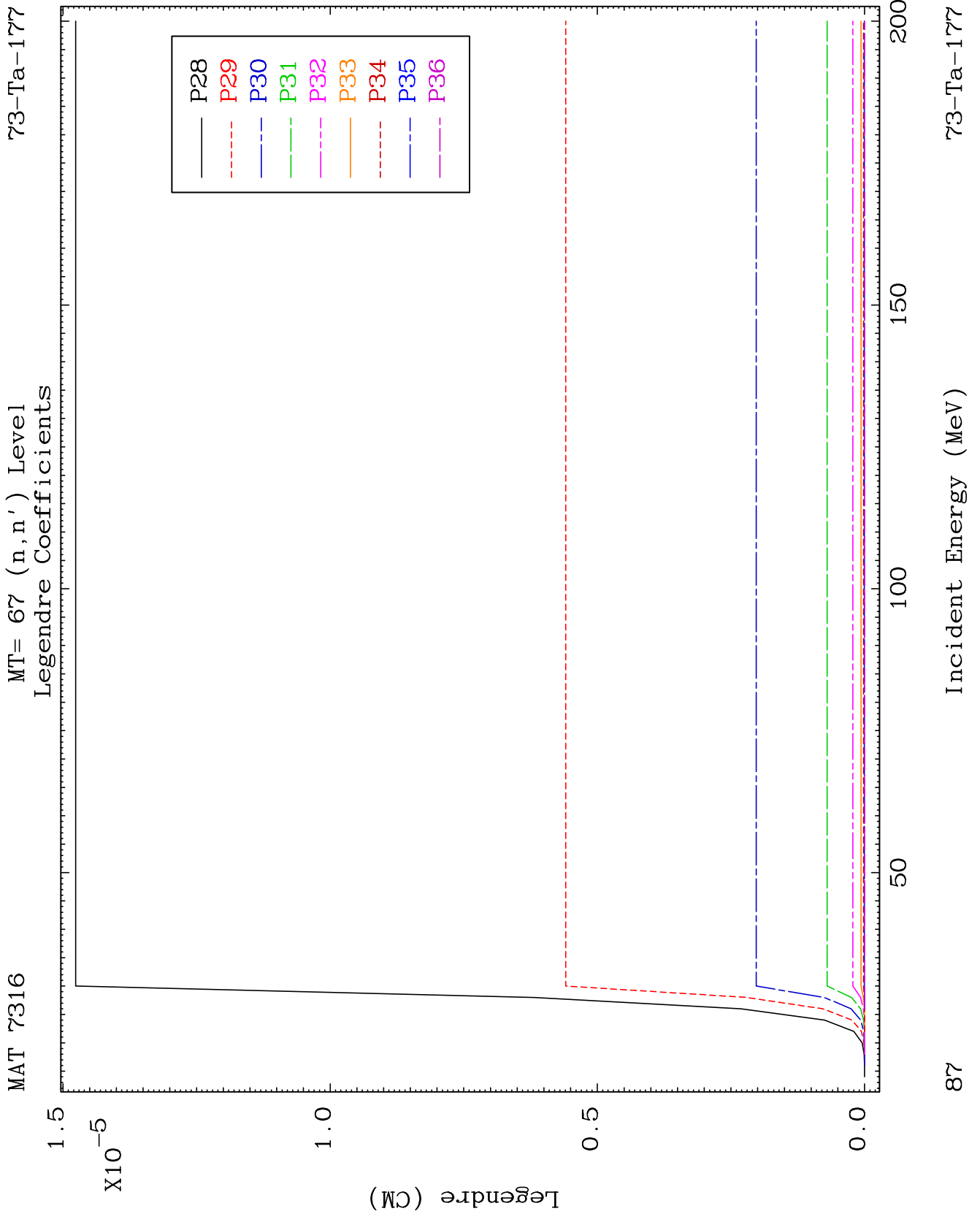
MT= 67 (n,n') Level  
Legendre Coefficients

73-Ta-177



86

73-Ta-177

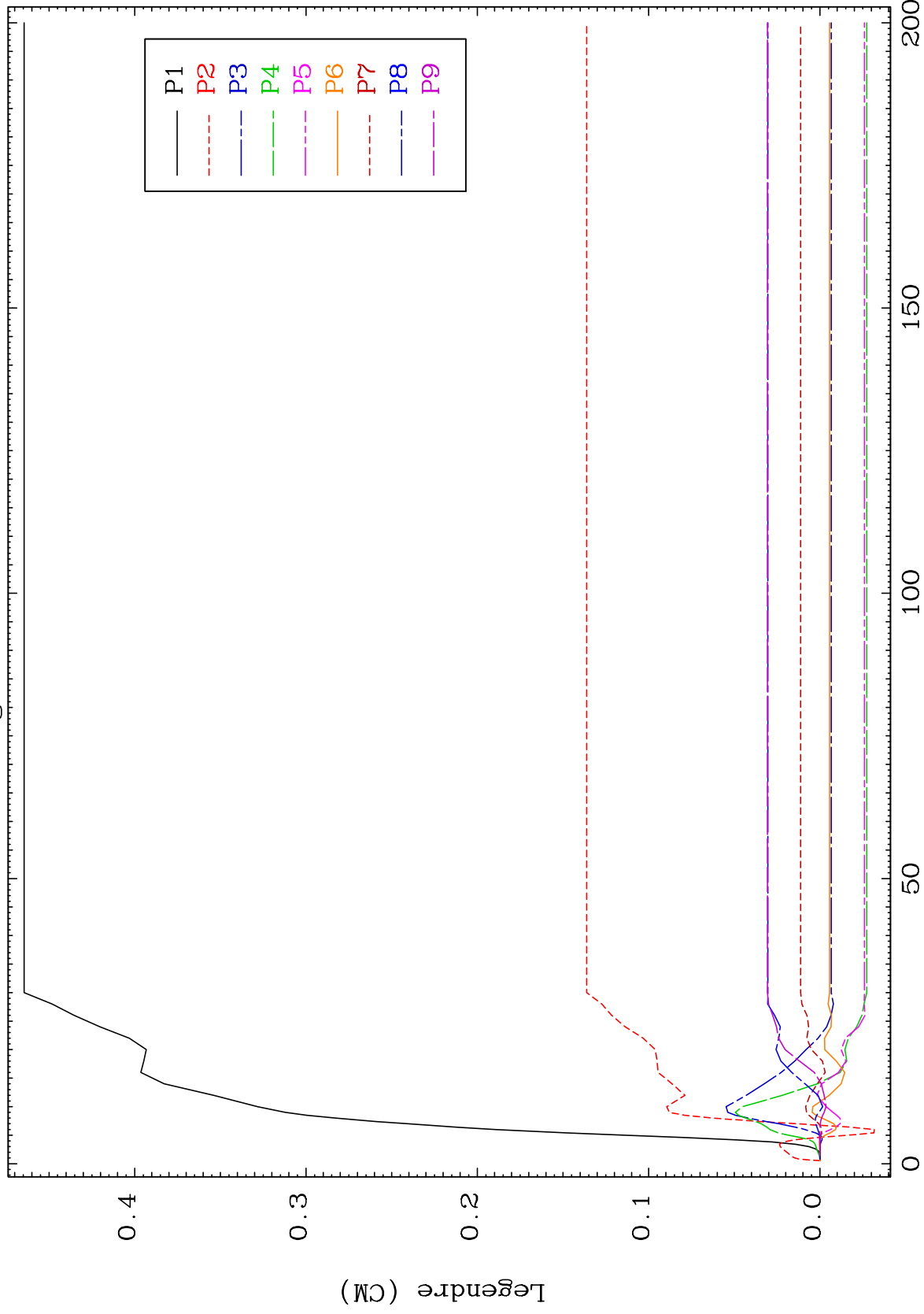




MAT 7316

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

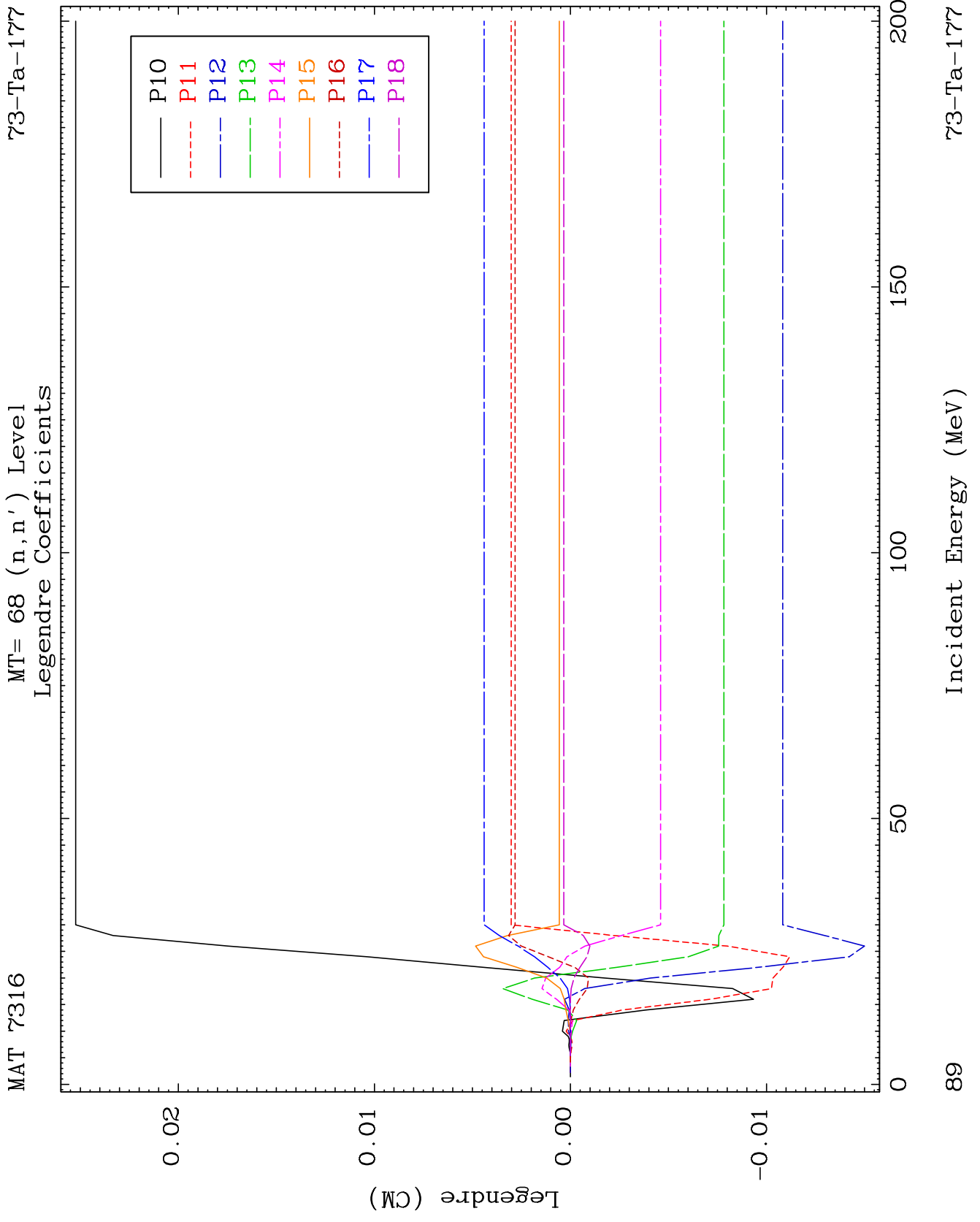
<sup>73</sup>Ta-177



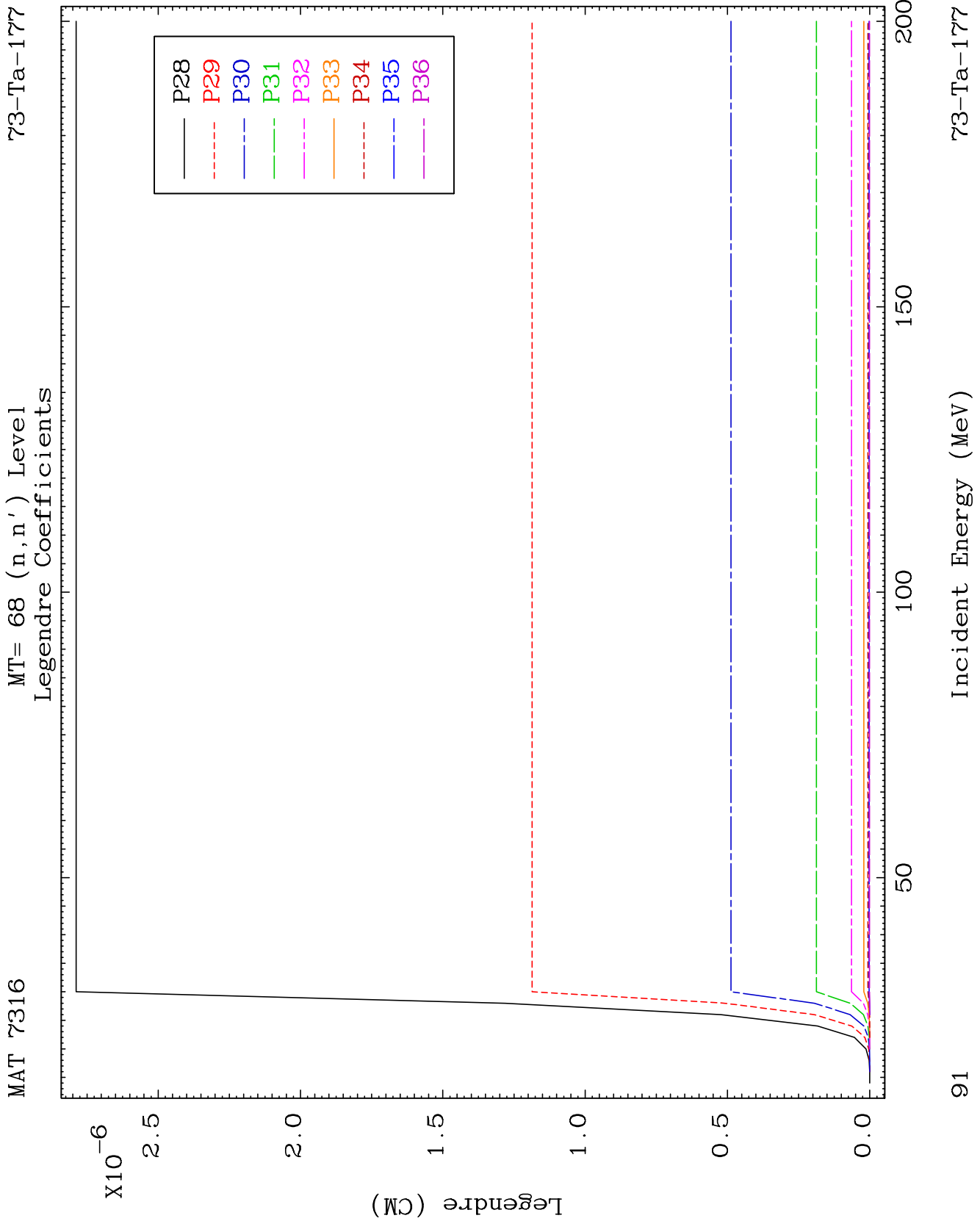
<sup>73</sup>Ta-177

Incident Energy (MeV)

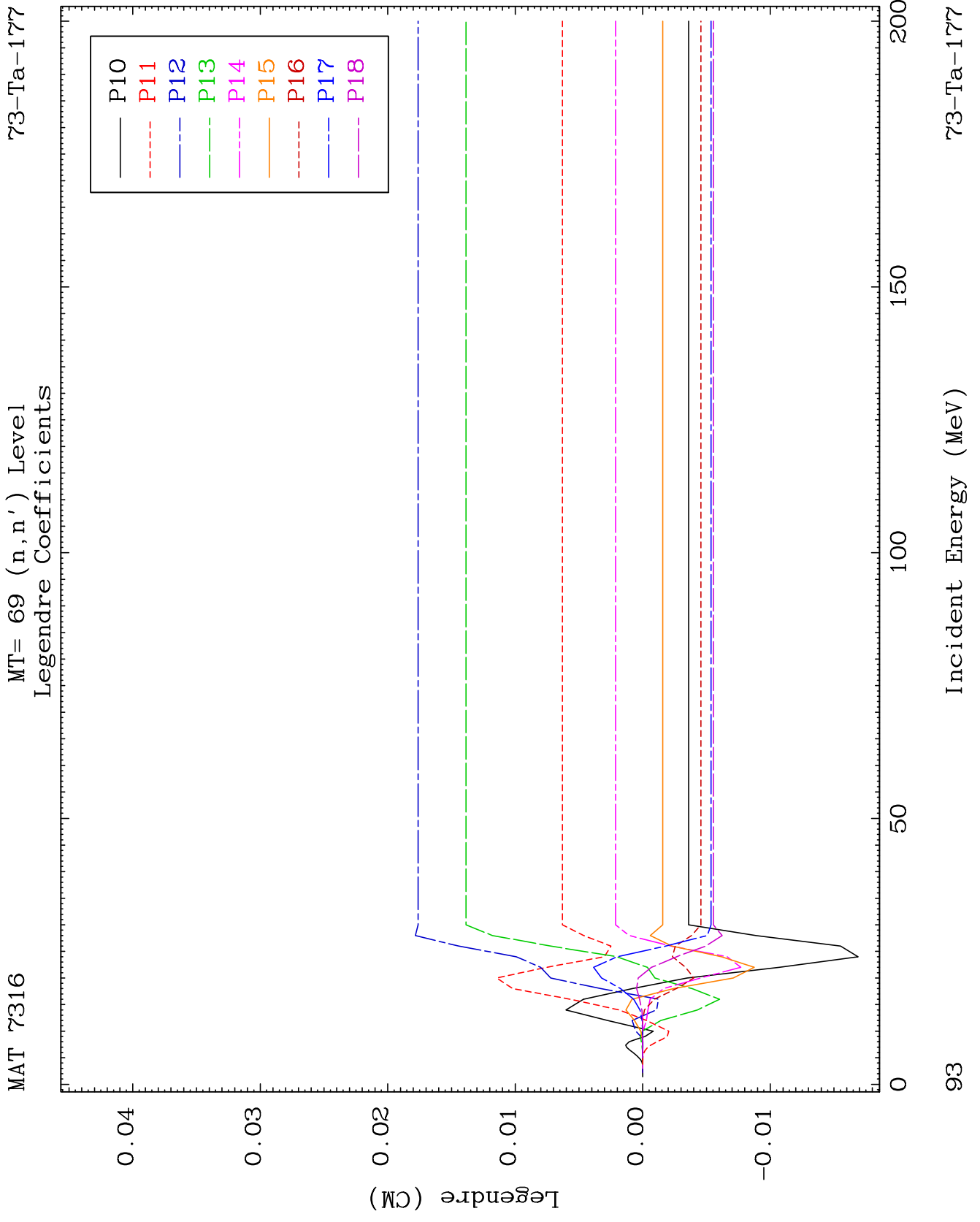
88







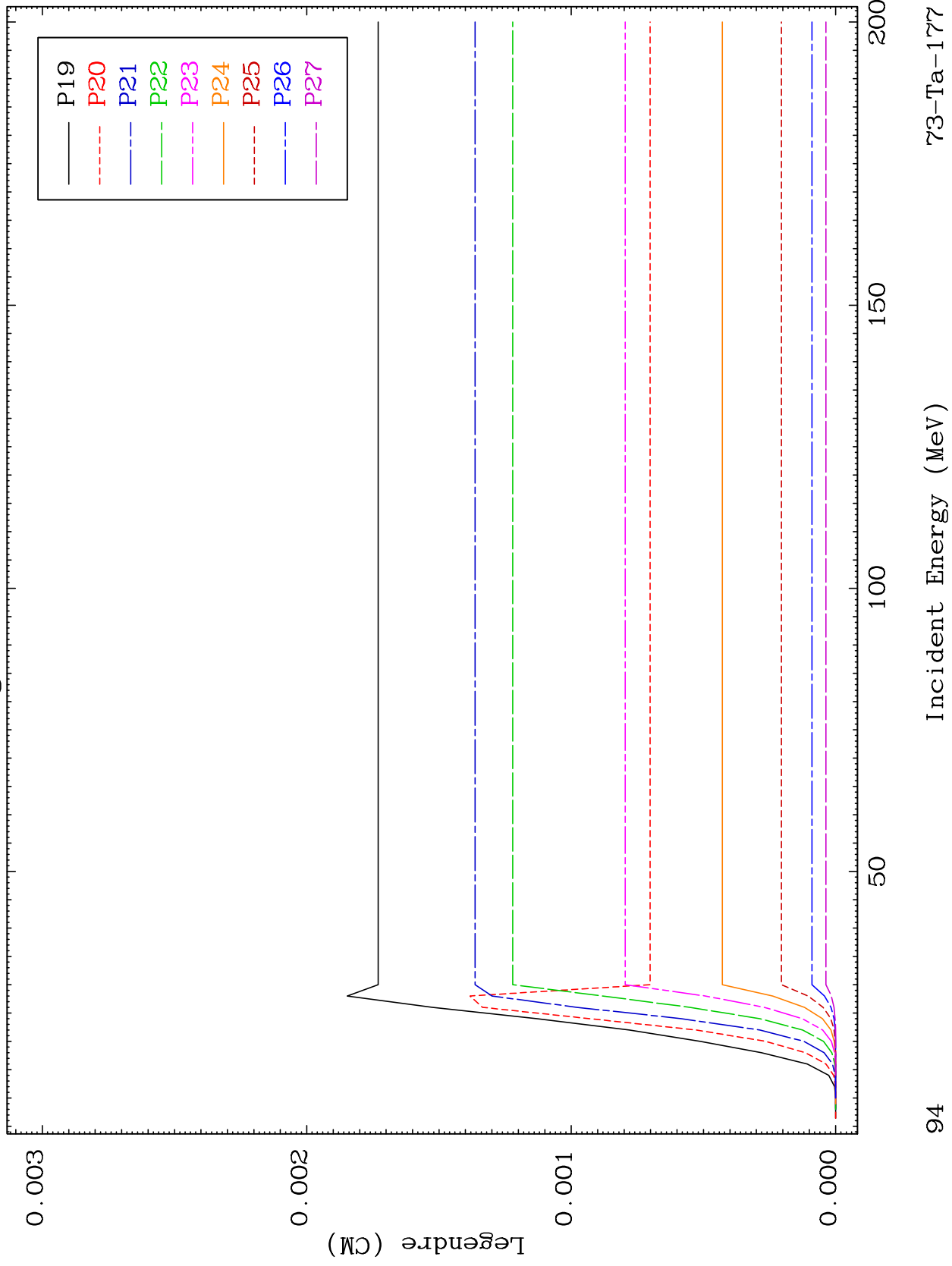




MAT 7316

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

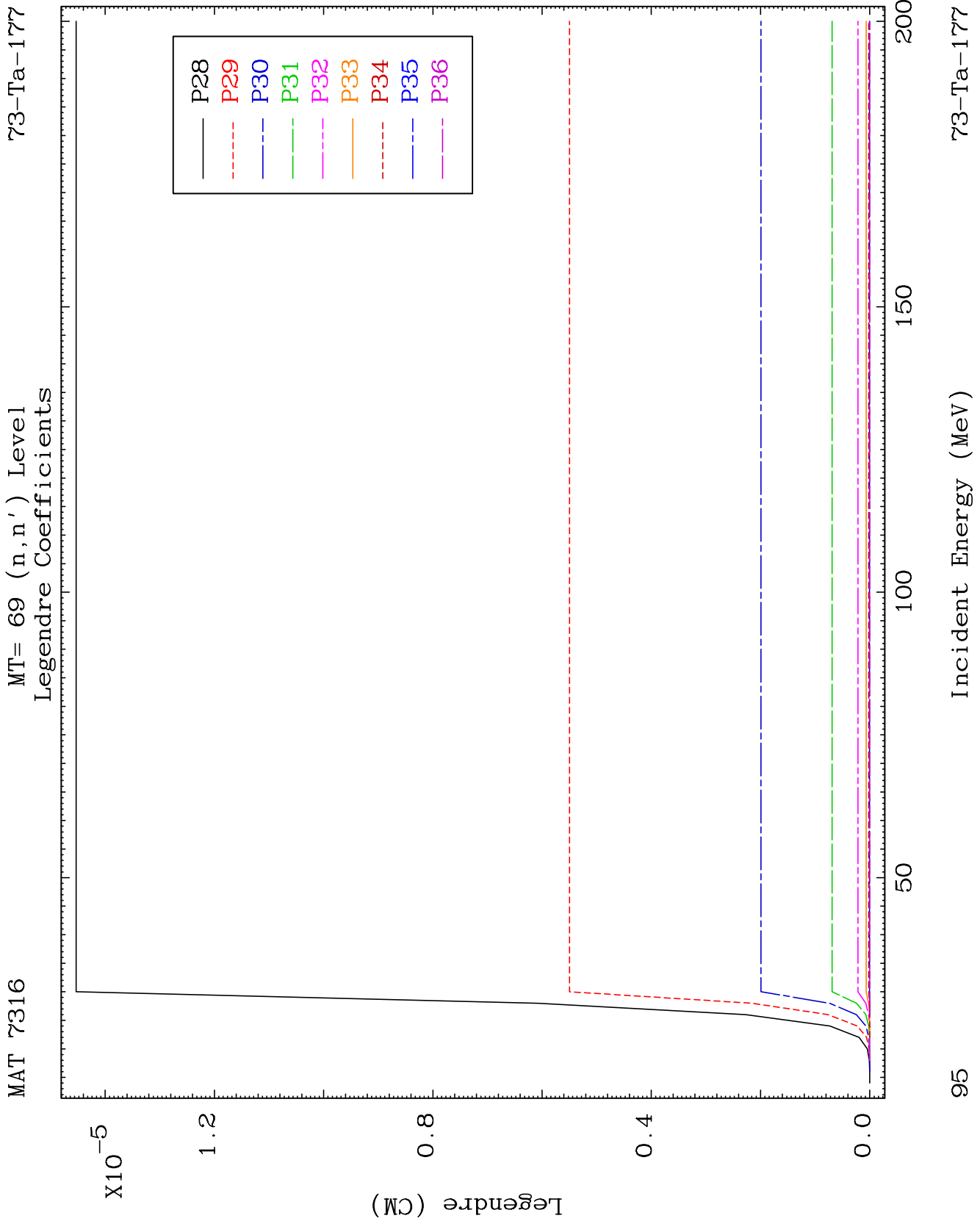
73-Ta-177



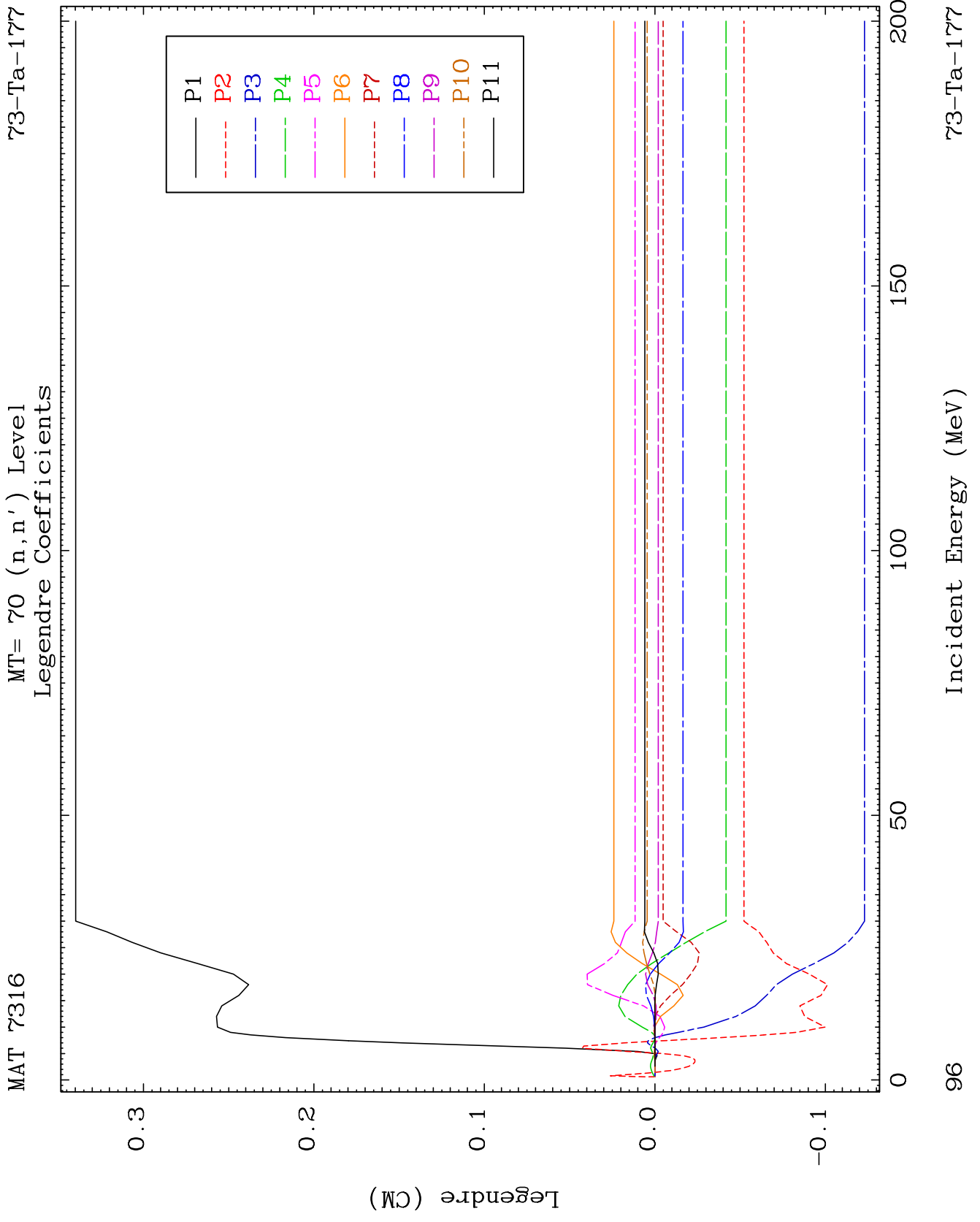
94

Incident Energy (MeV)

73-Ta-177



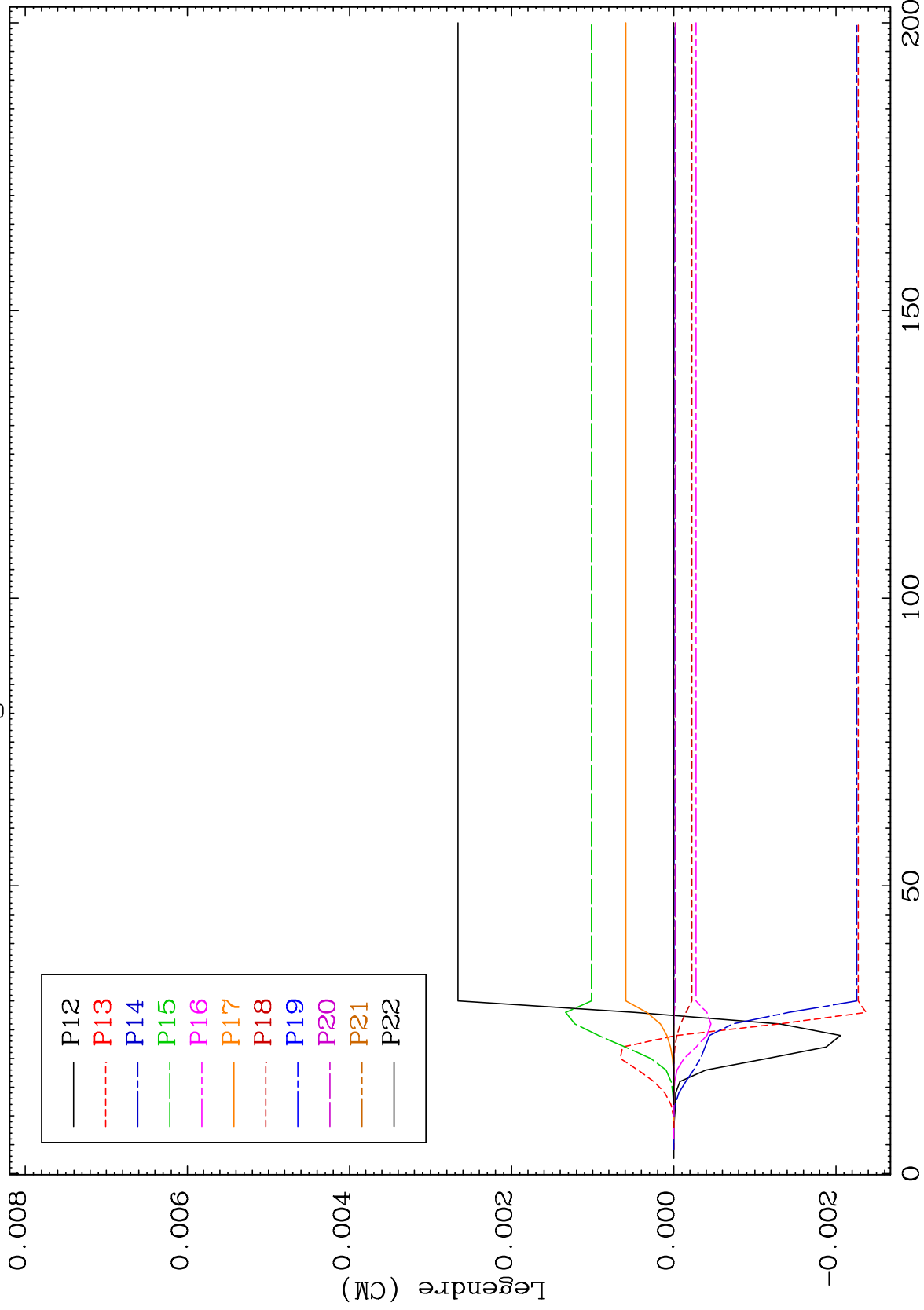




MAT 7316

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

73-Ta-177



97

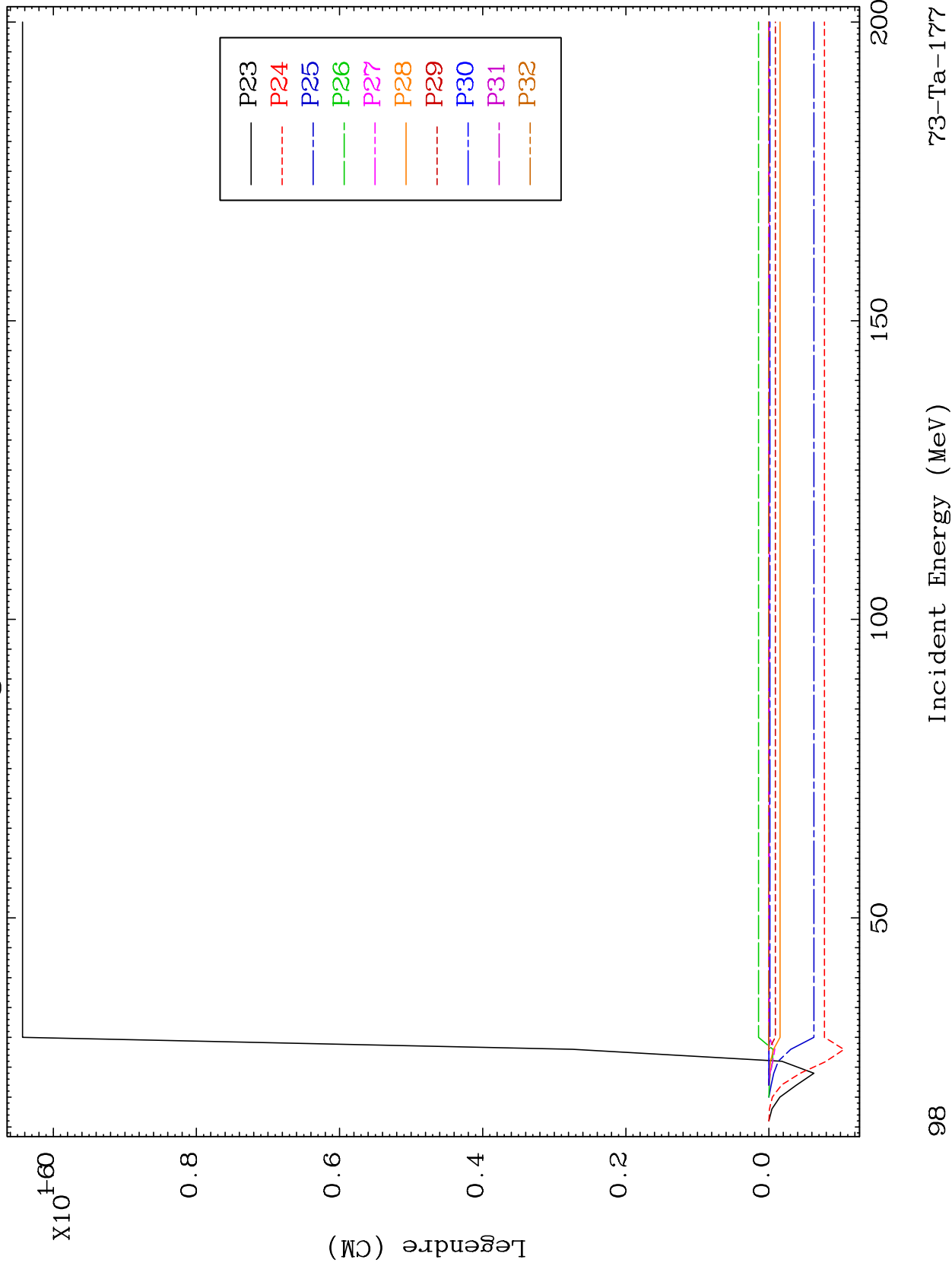
Incident Energy (MeV)

73-Ta-177

MAT 7316

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

73-Ta-177



98

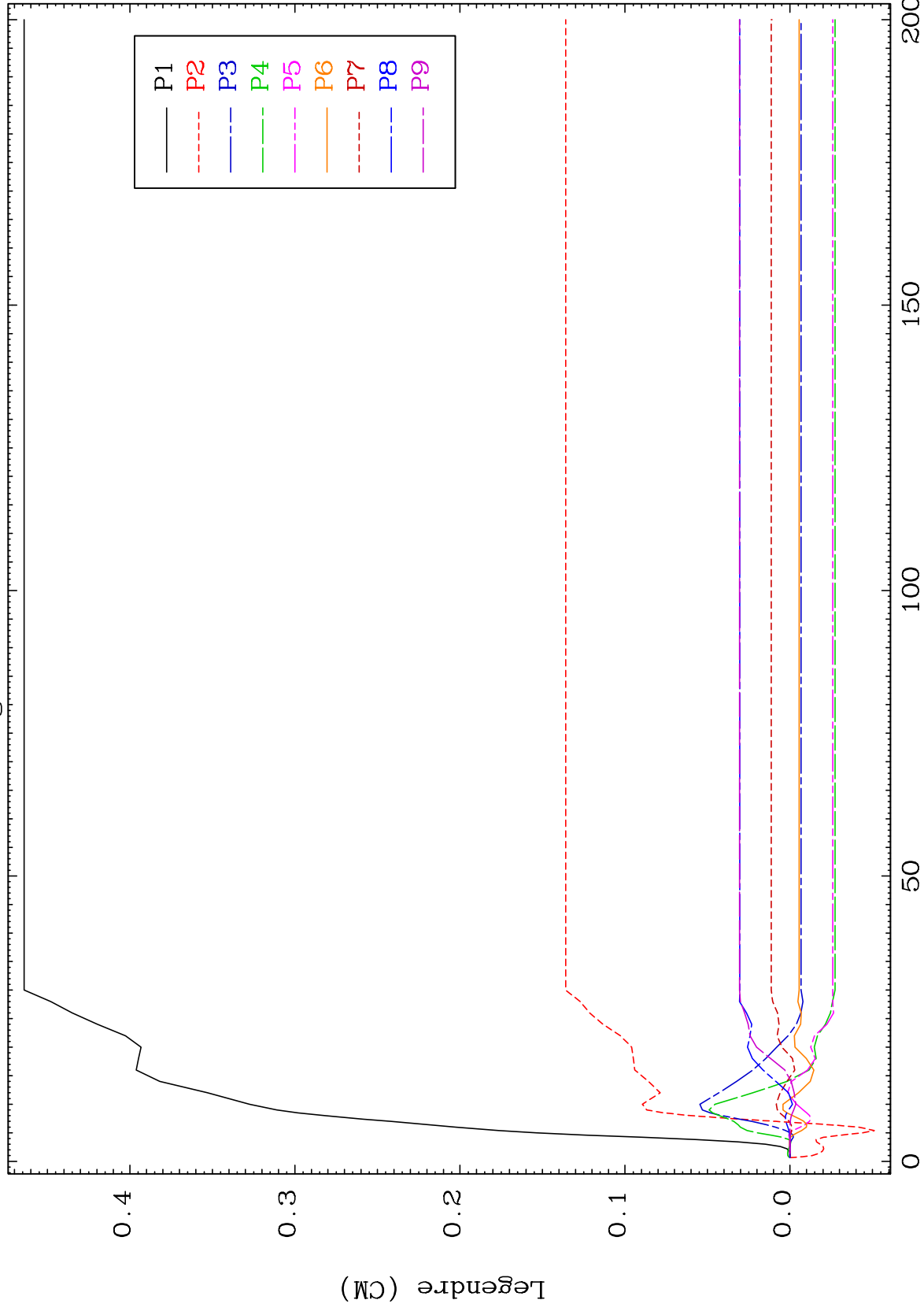
Incident Energy (MeV)

73-Ta-177

MAT 7316

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

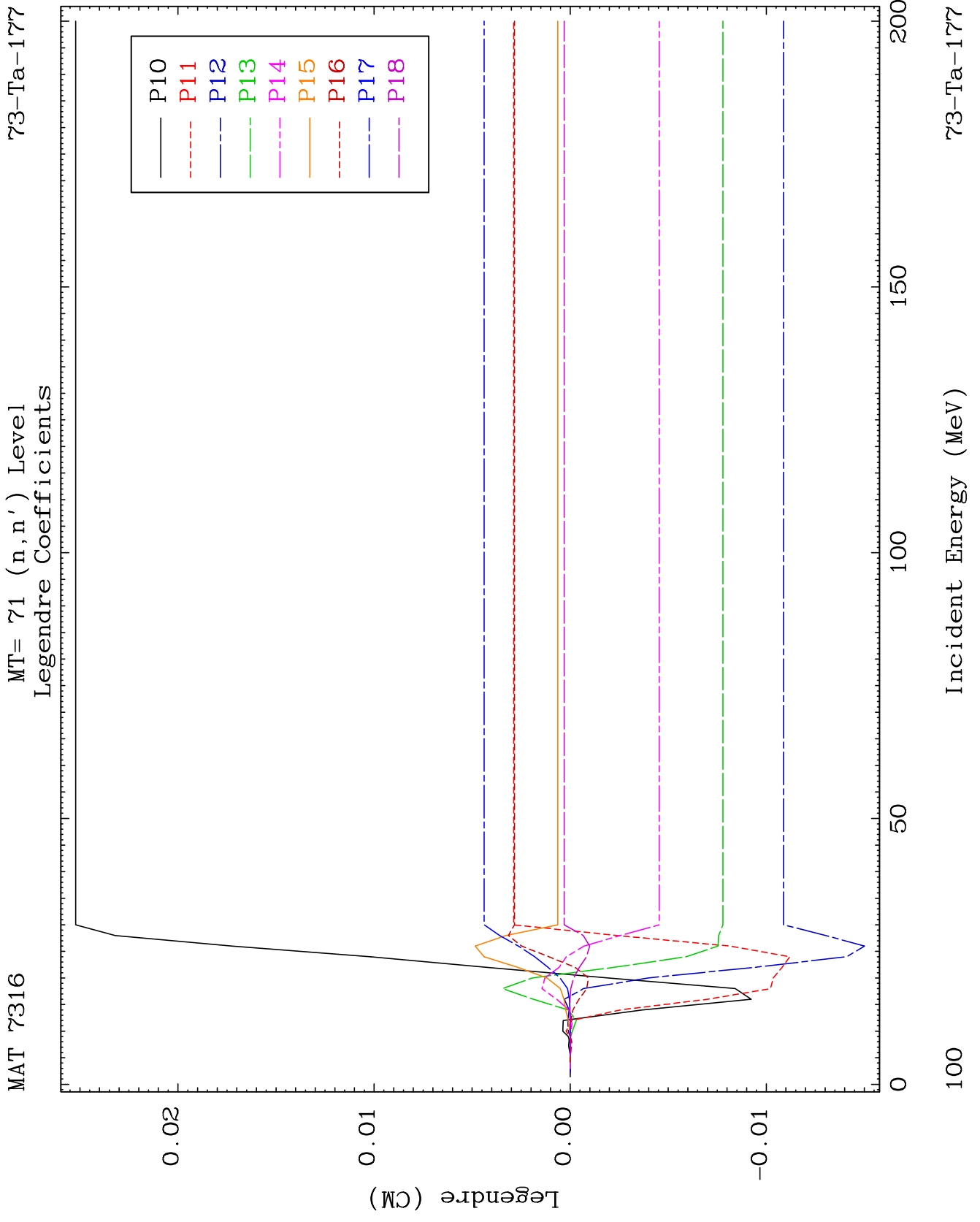
73-Ta-177



99

Incident Energy (MeV)

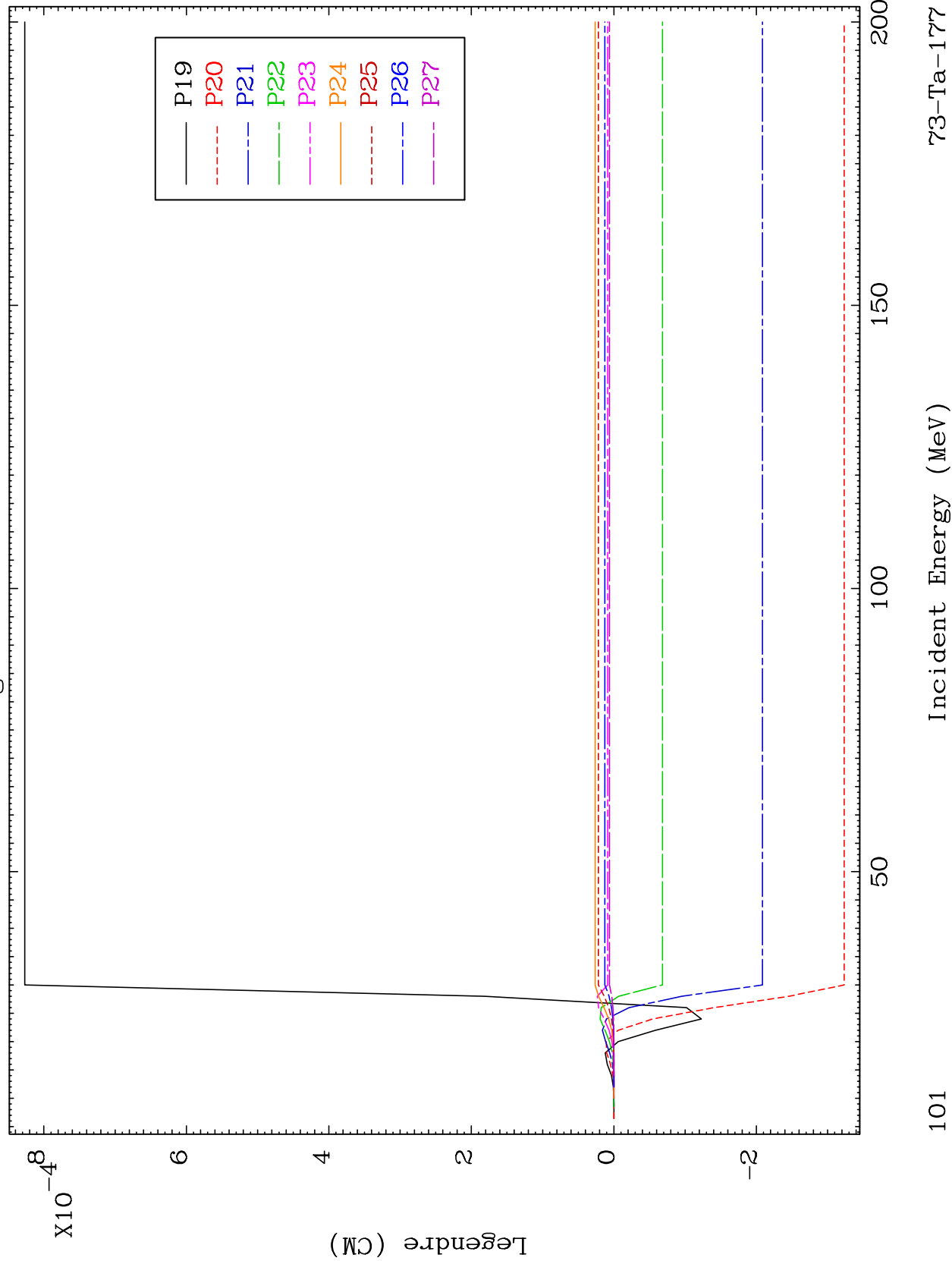
73-Ta-177

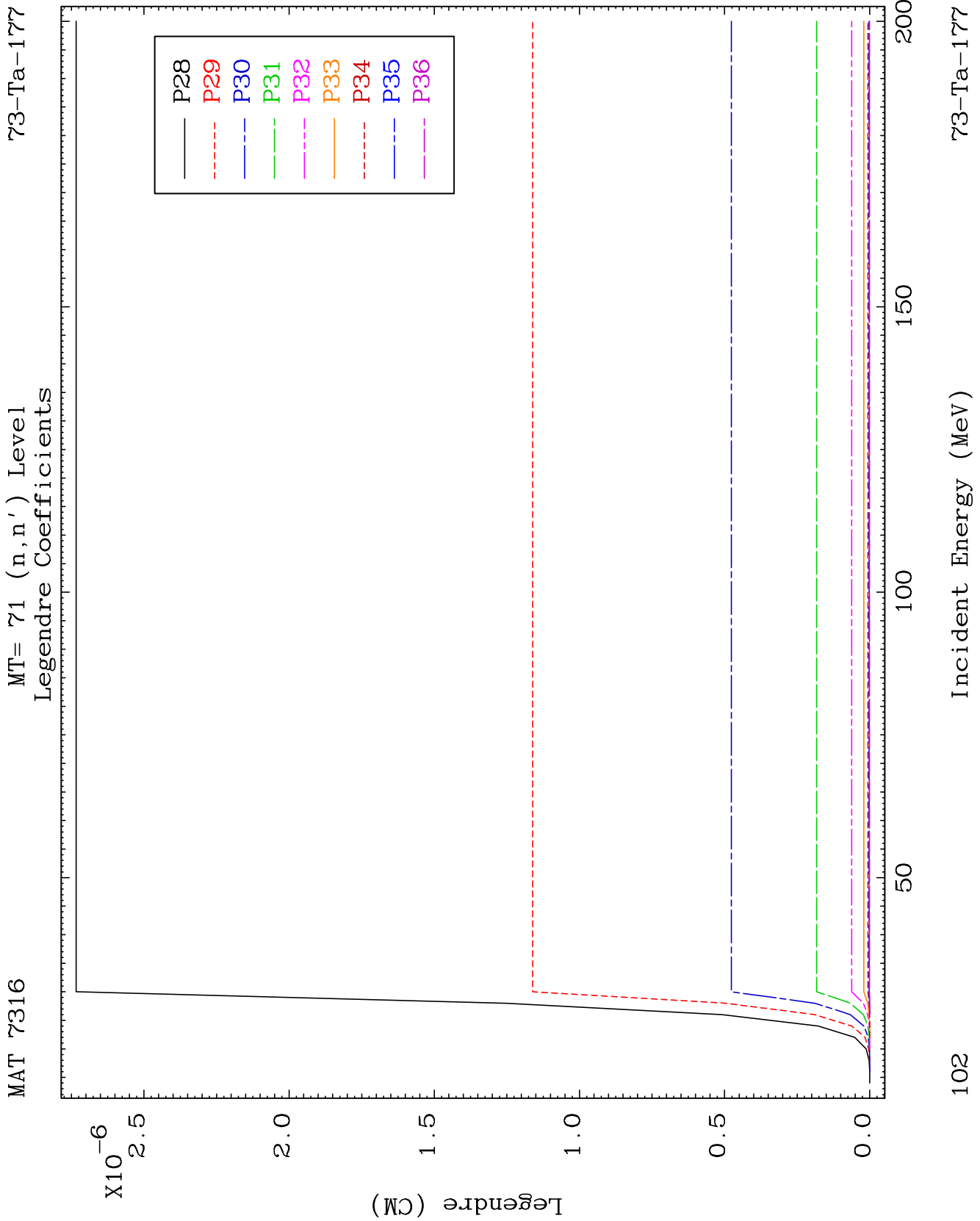


MAT 7316

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

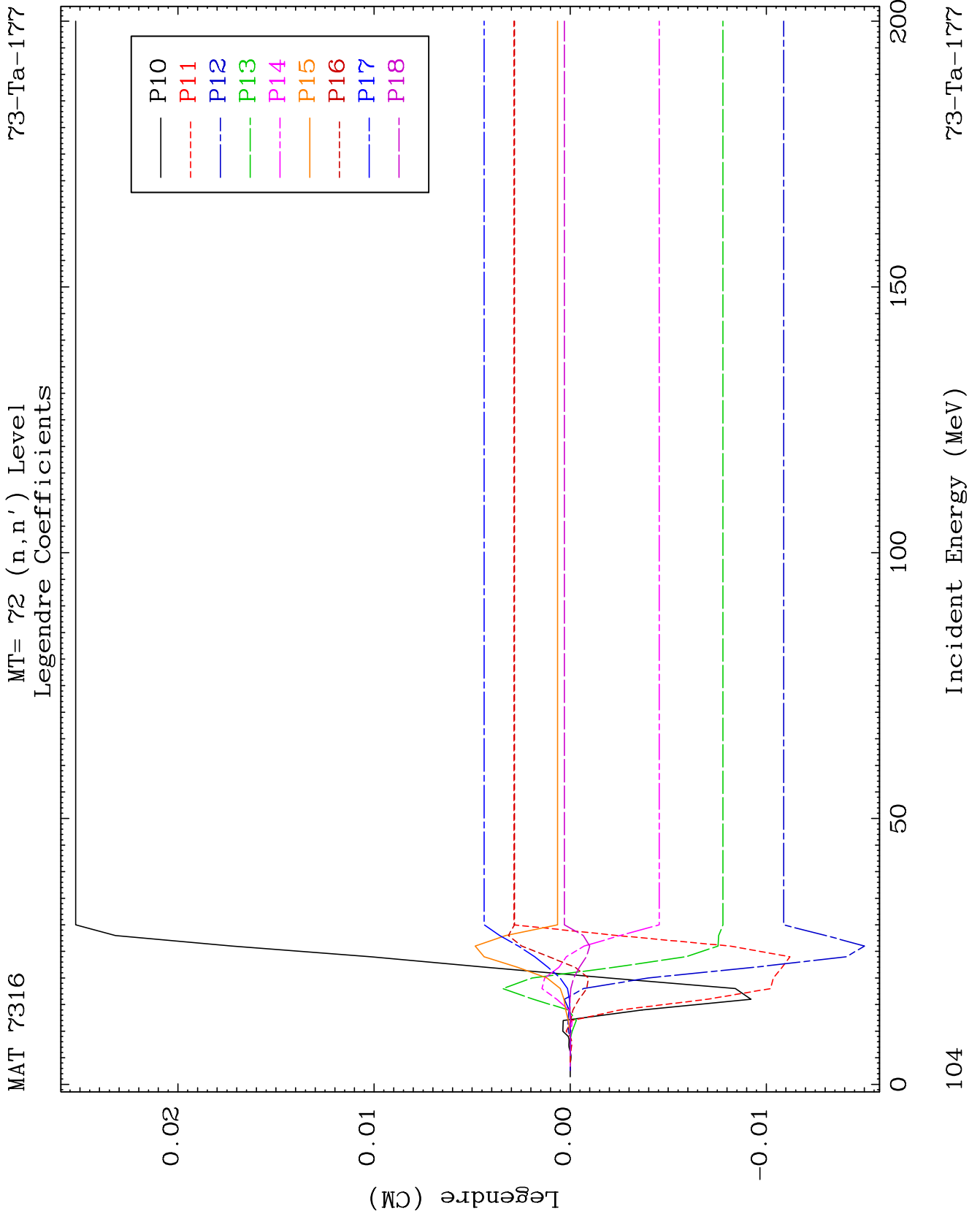
73-Ta-177







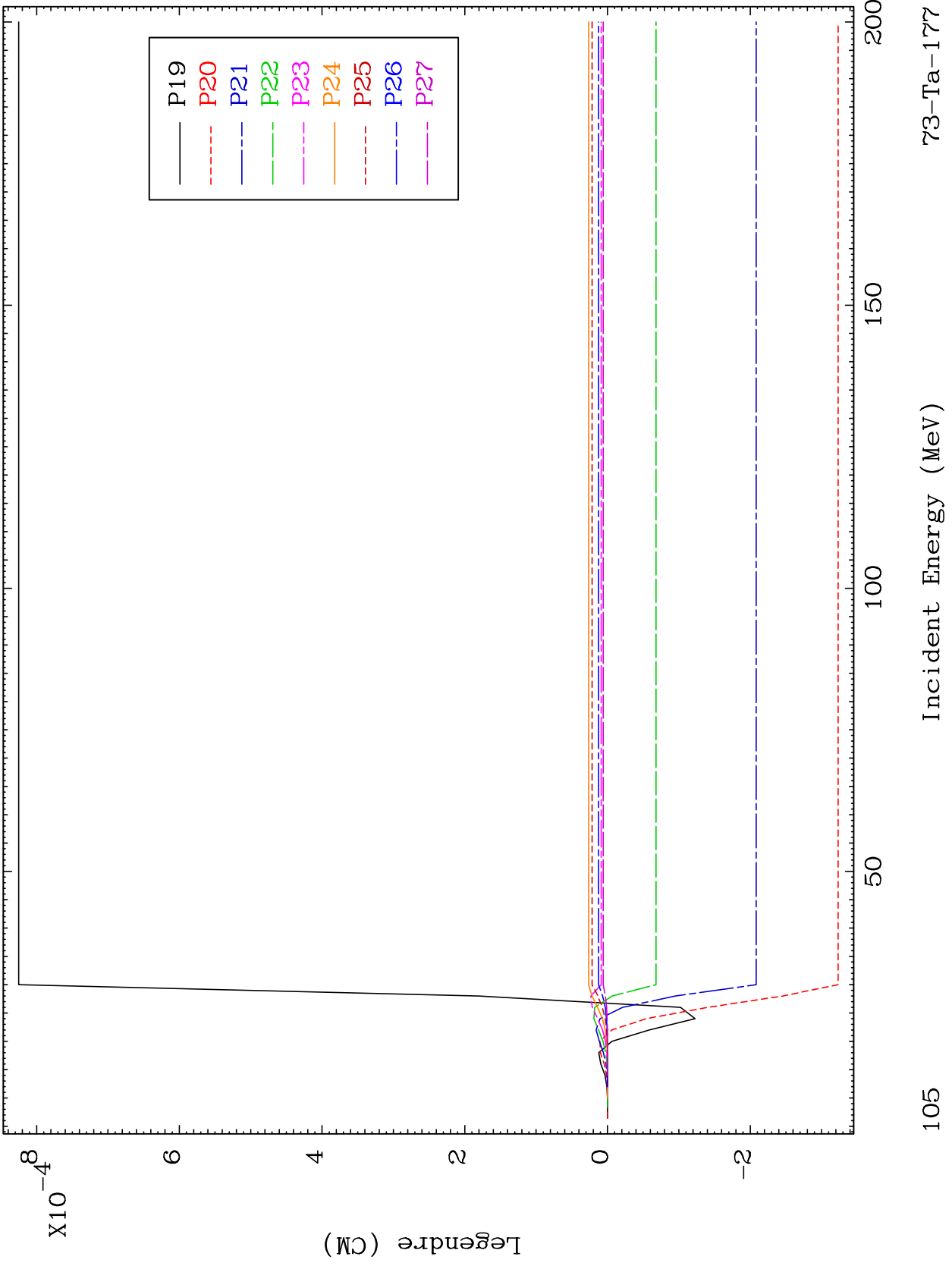




MAT 7316

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

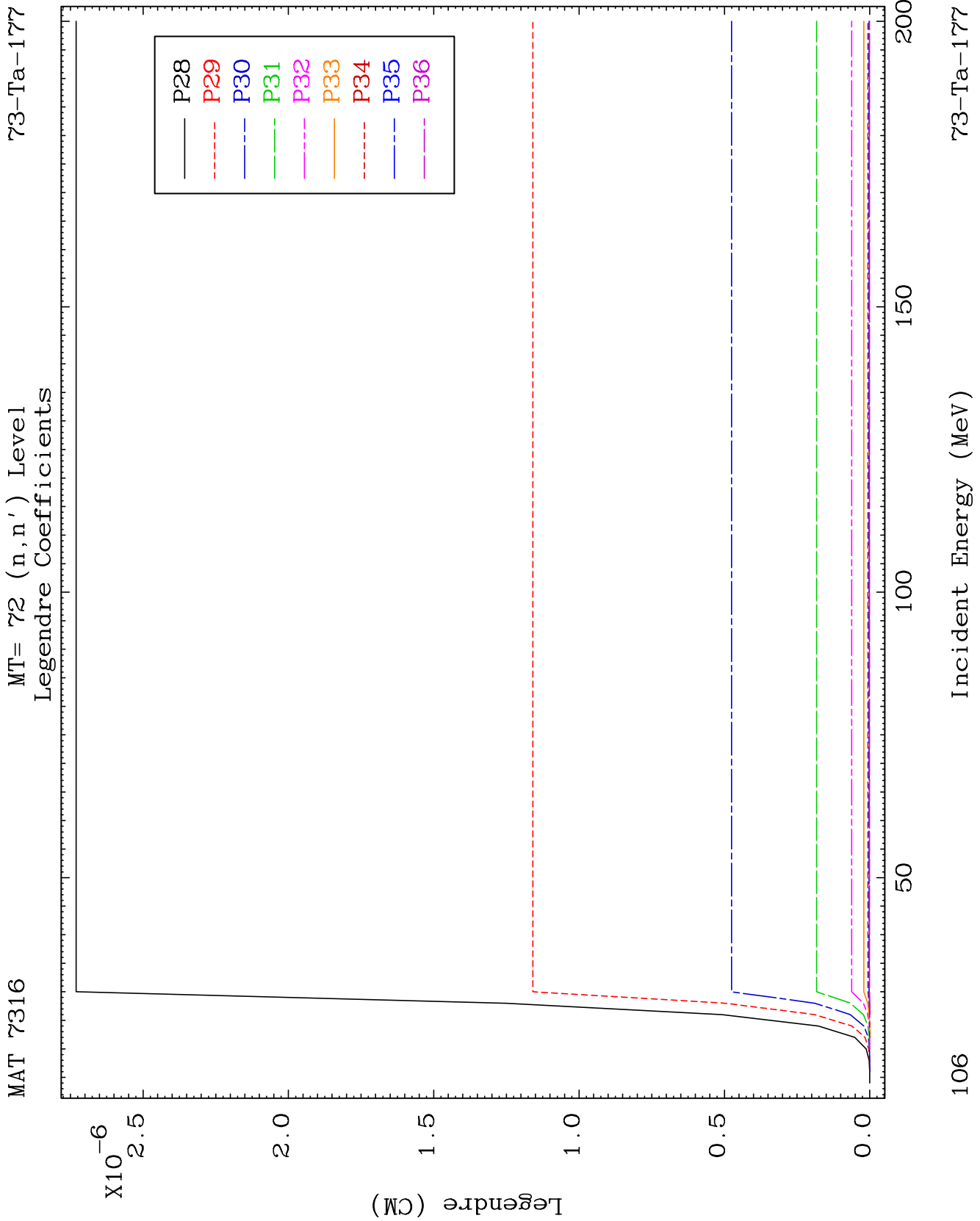
73-Ta-177

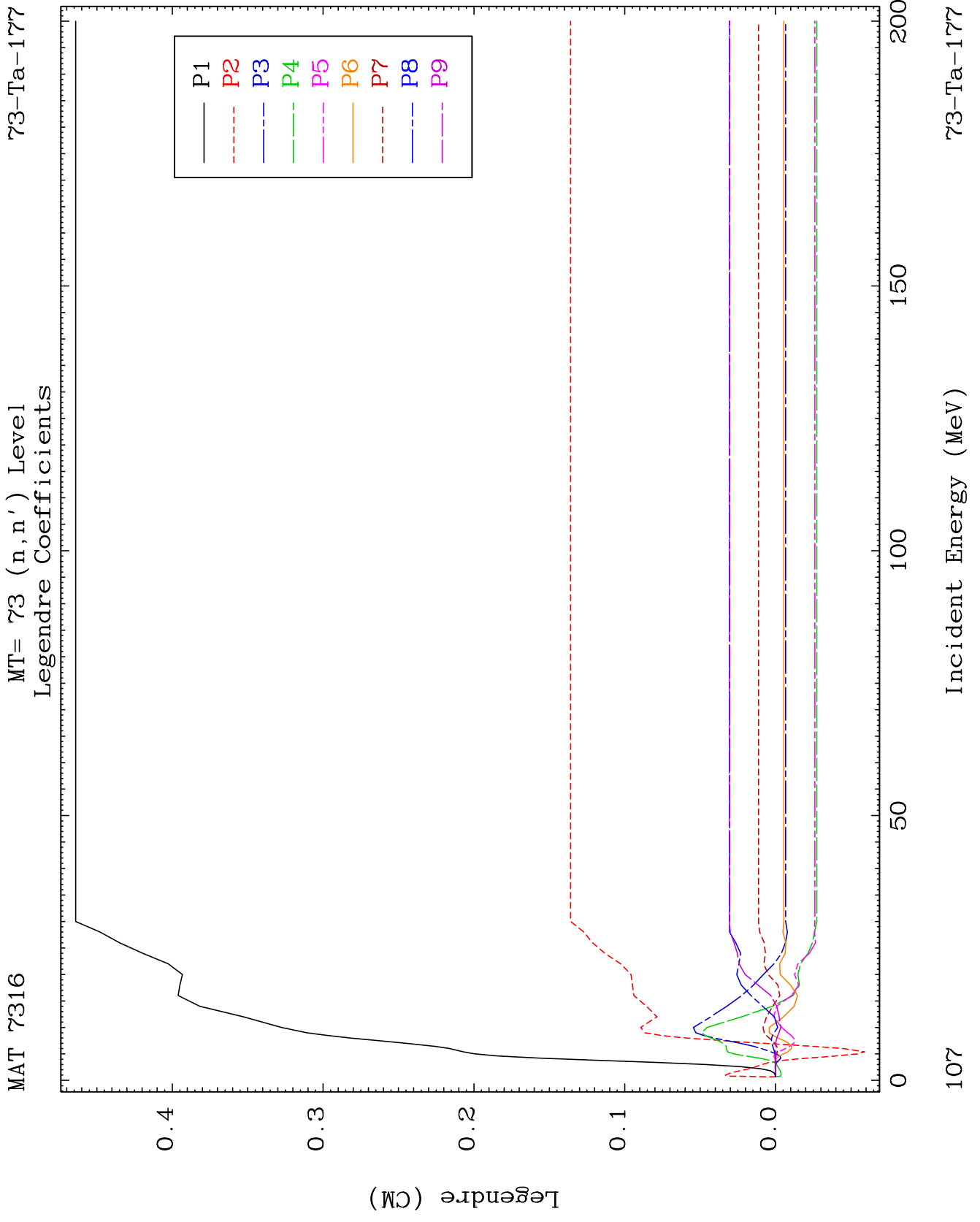


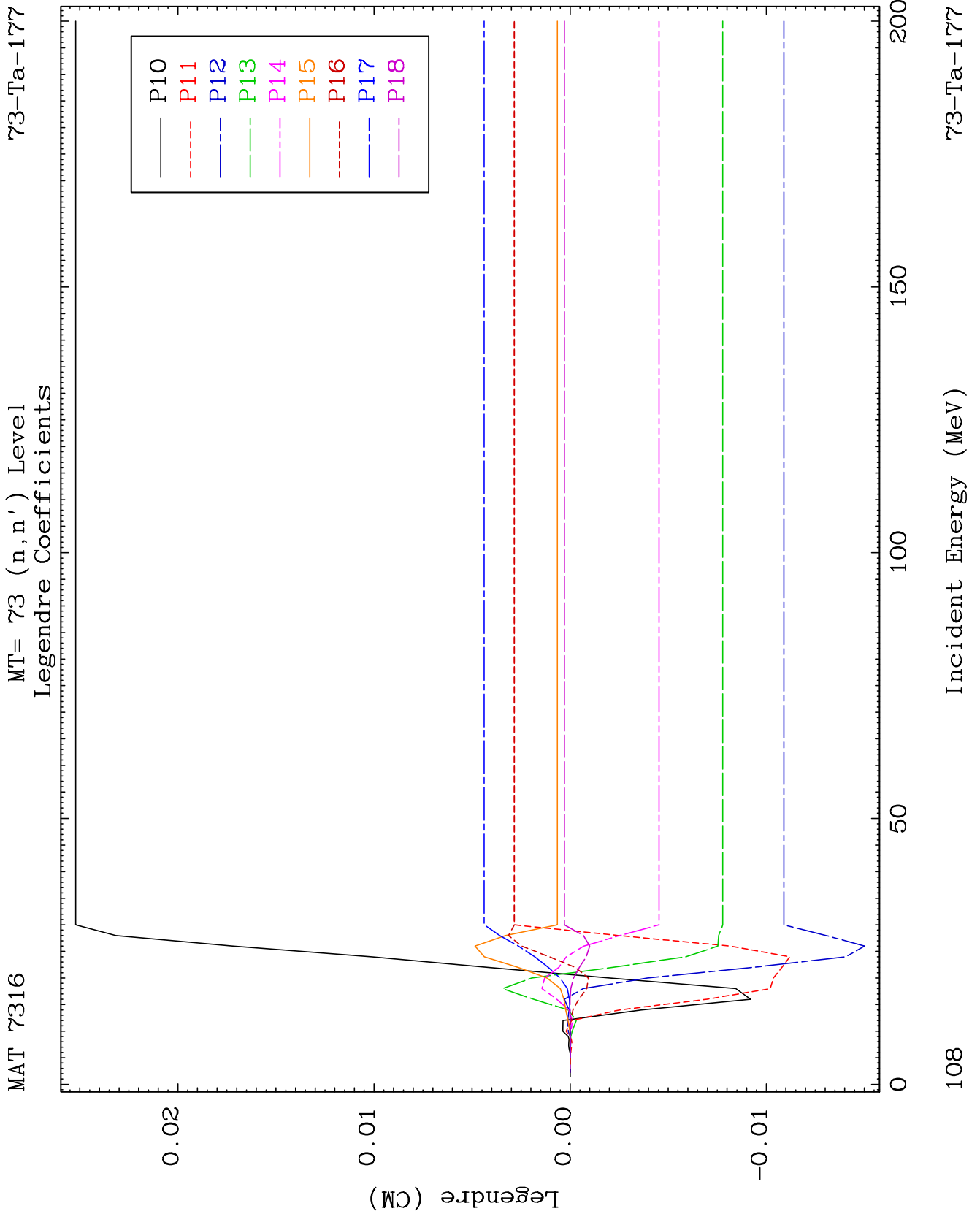
105

Incident Energy (MeV)

73-Ta-177



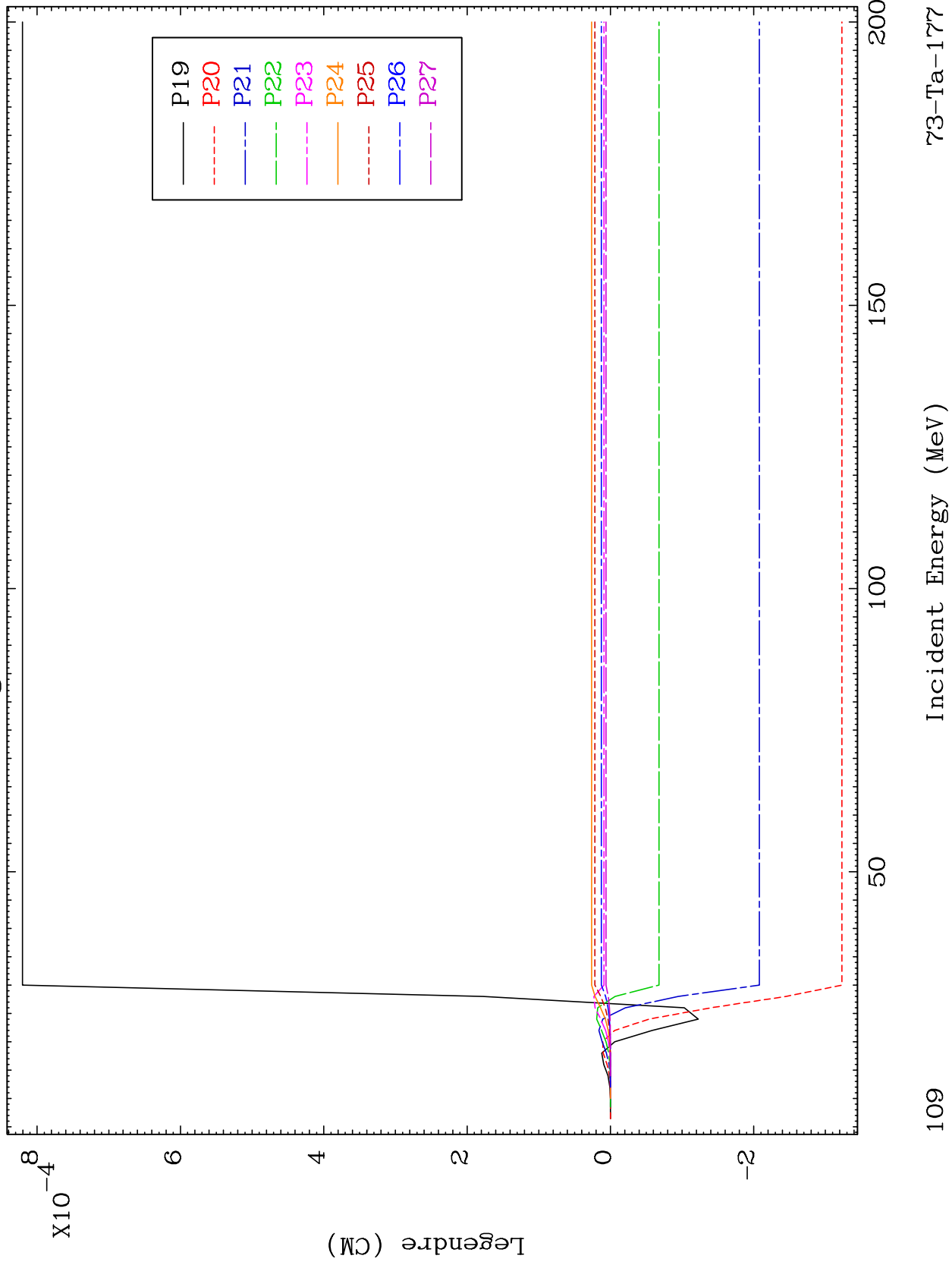




MAT 7316

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

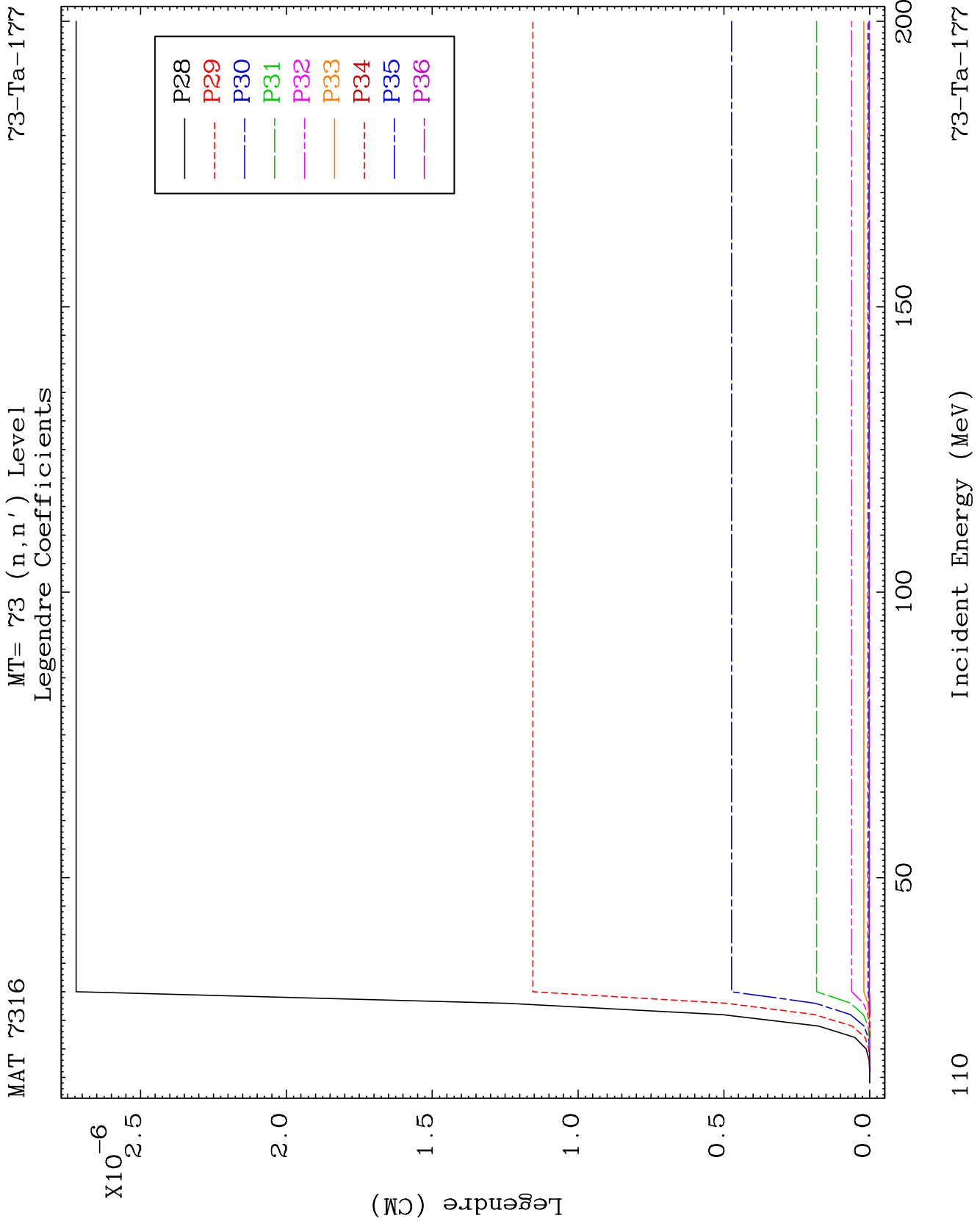
73-Ta-177



109

Incident Energy (MeV)

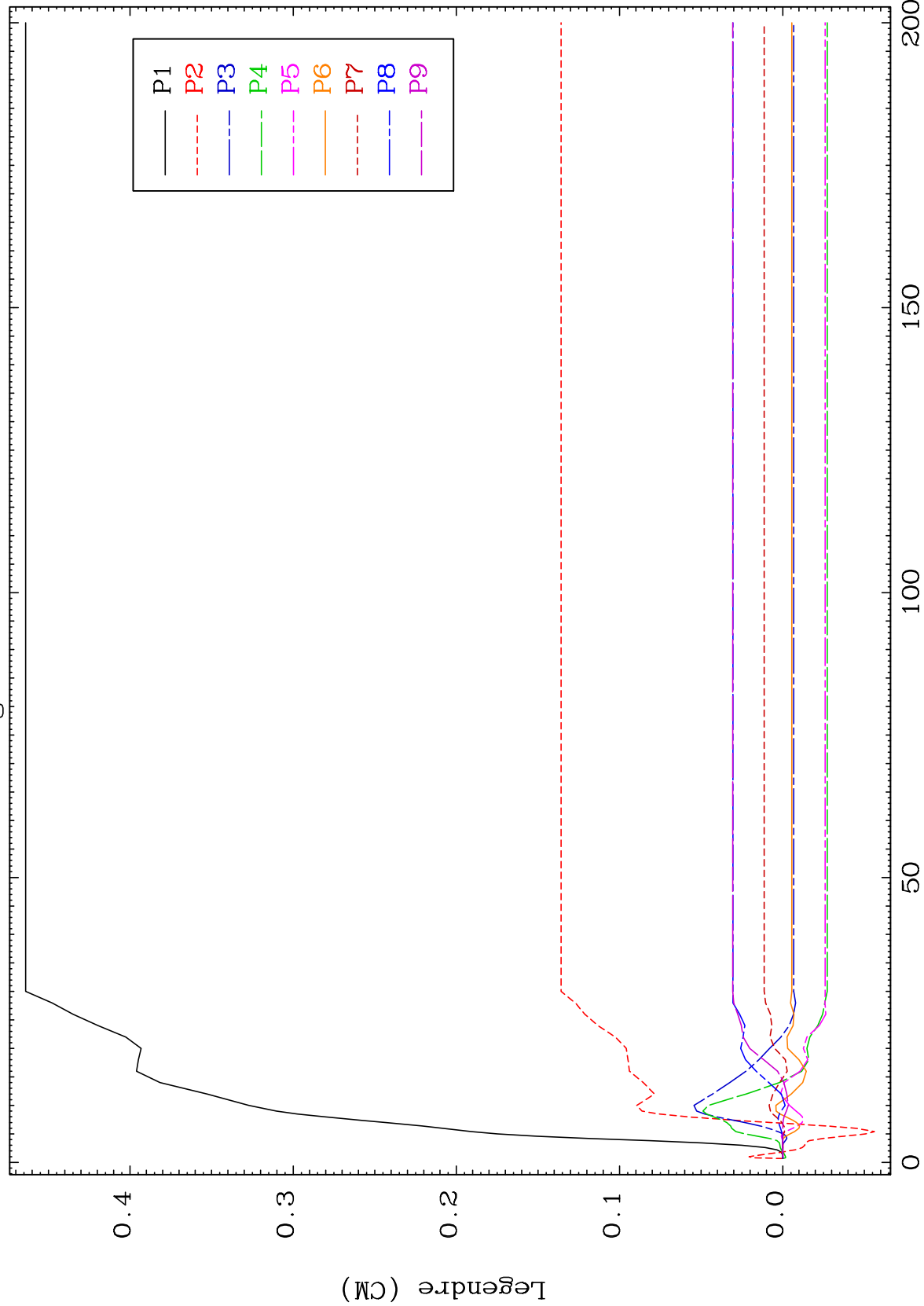
73-Ta-177



MAT 7316

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

73-Ta-177

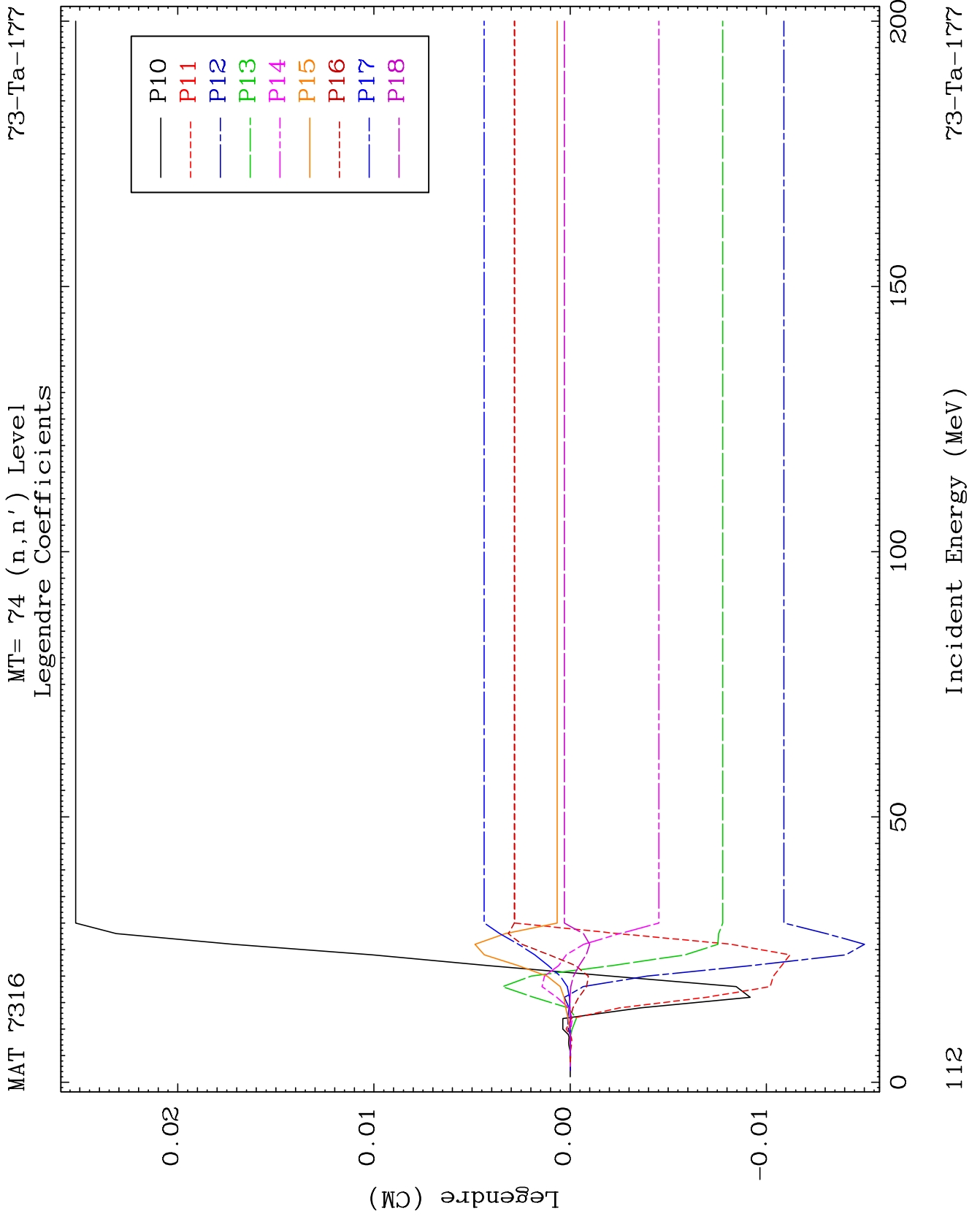


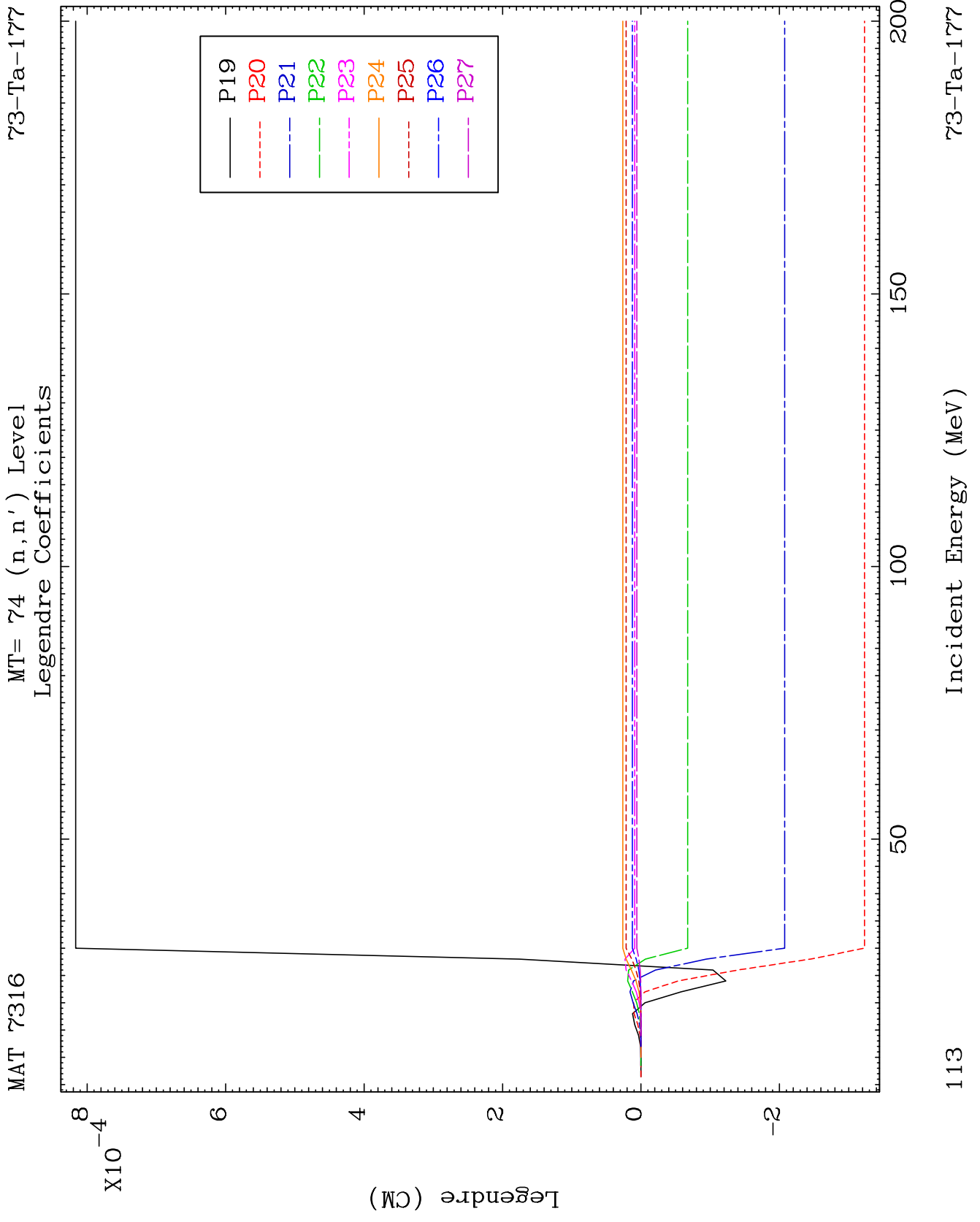
111

Incident Energy (MeV)

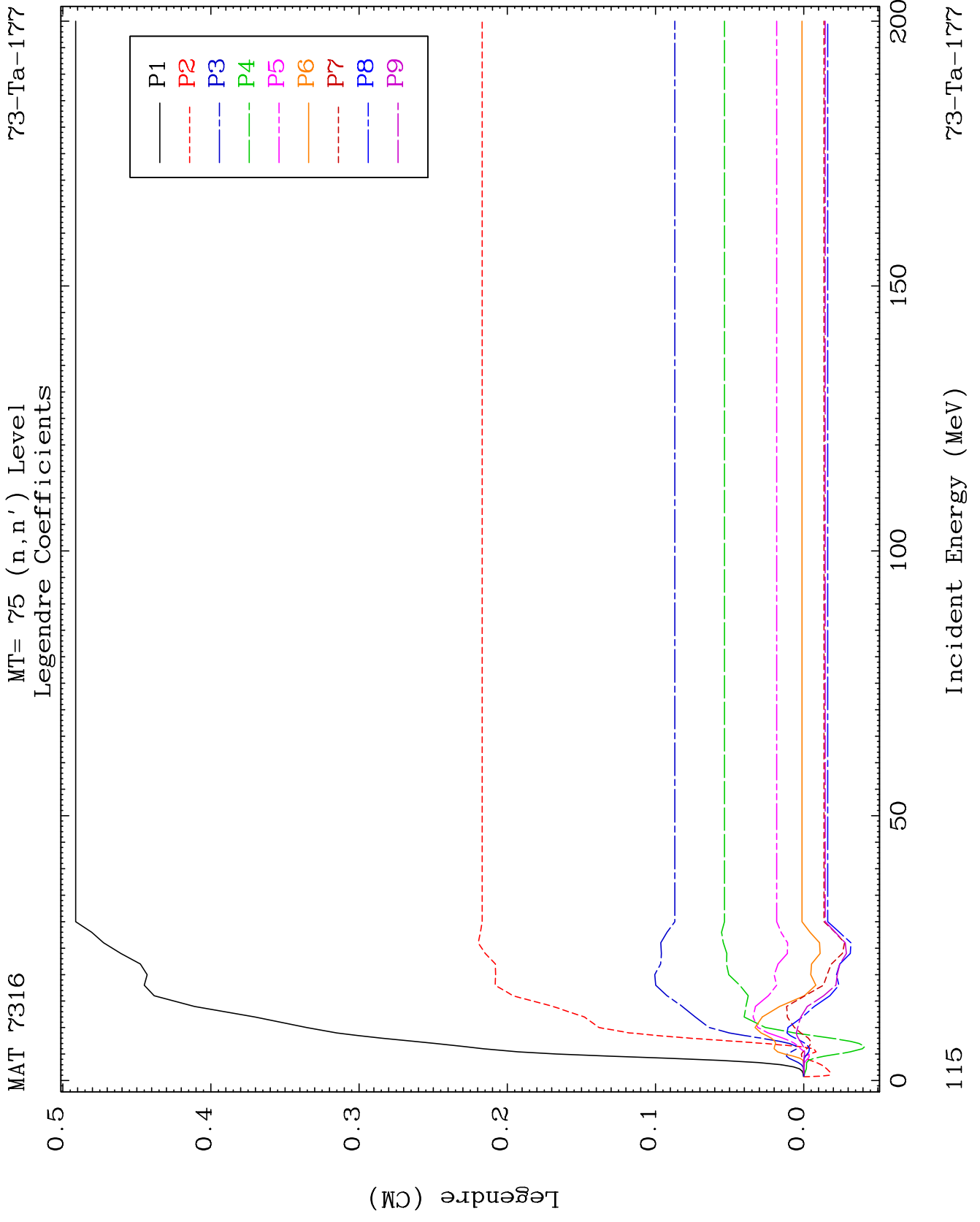
73-Ta-177

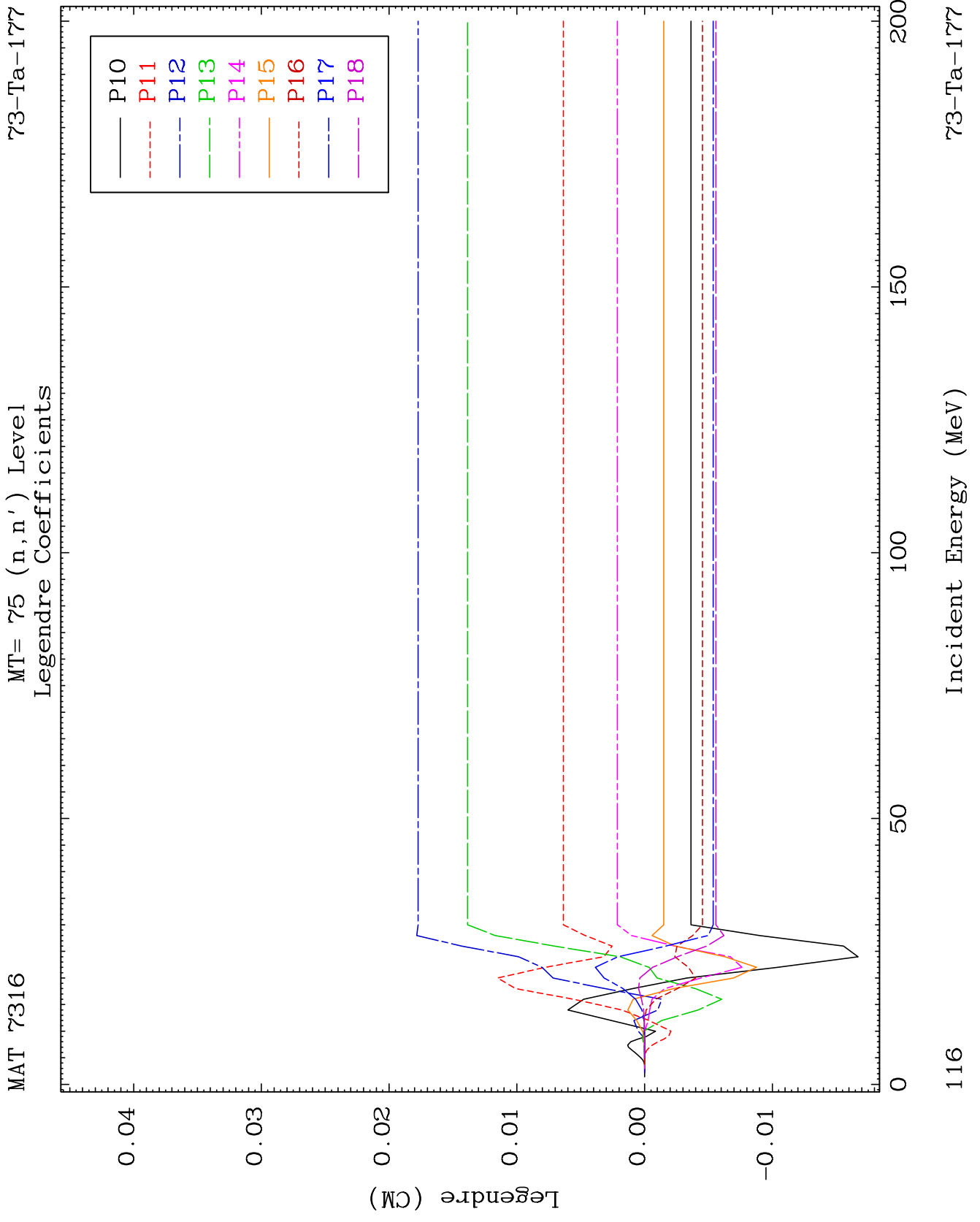


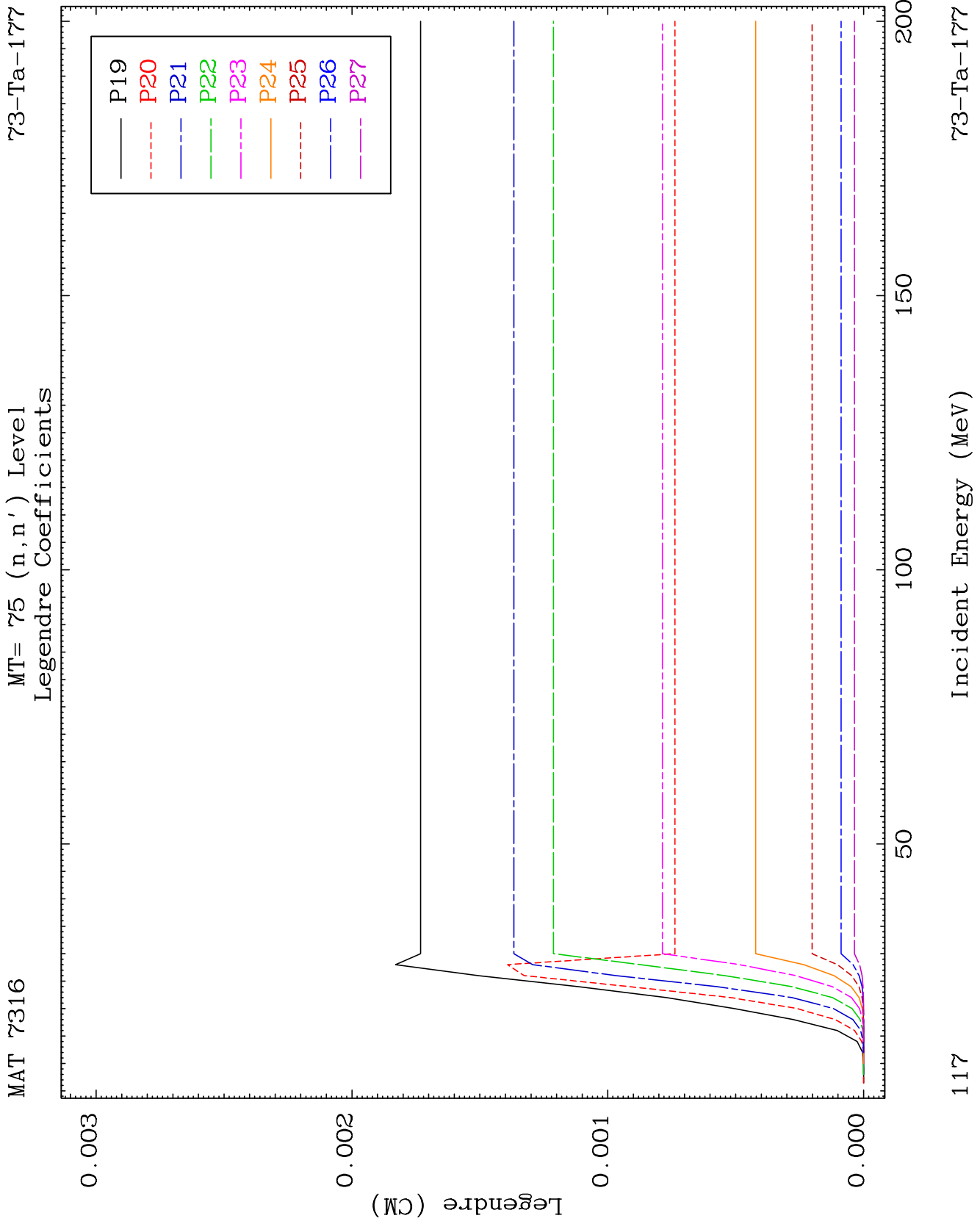


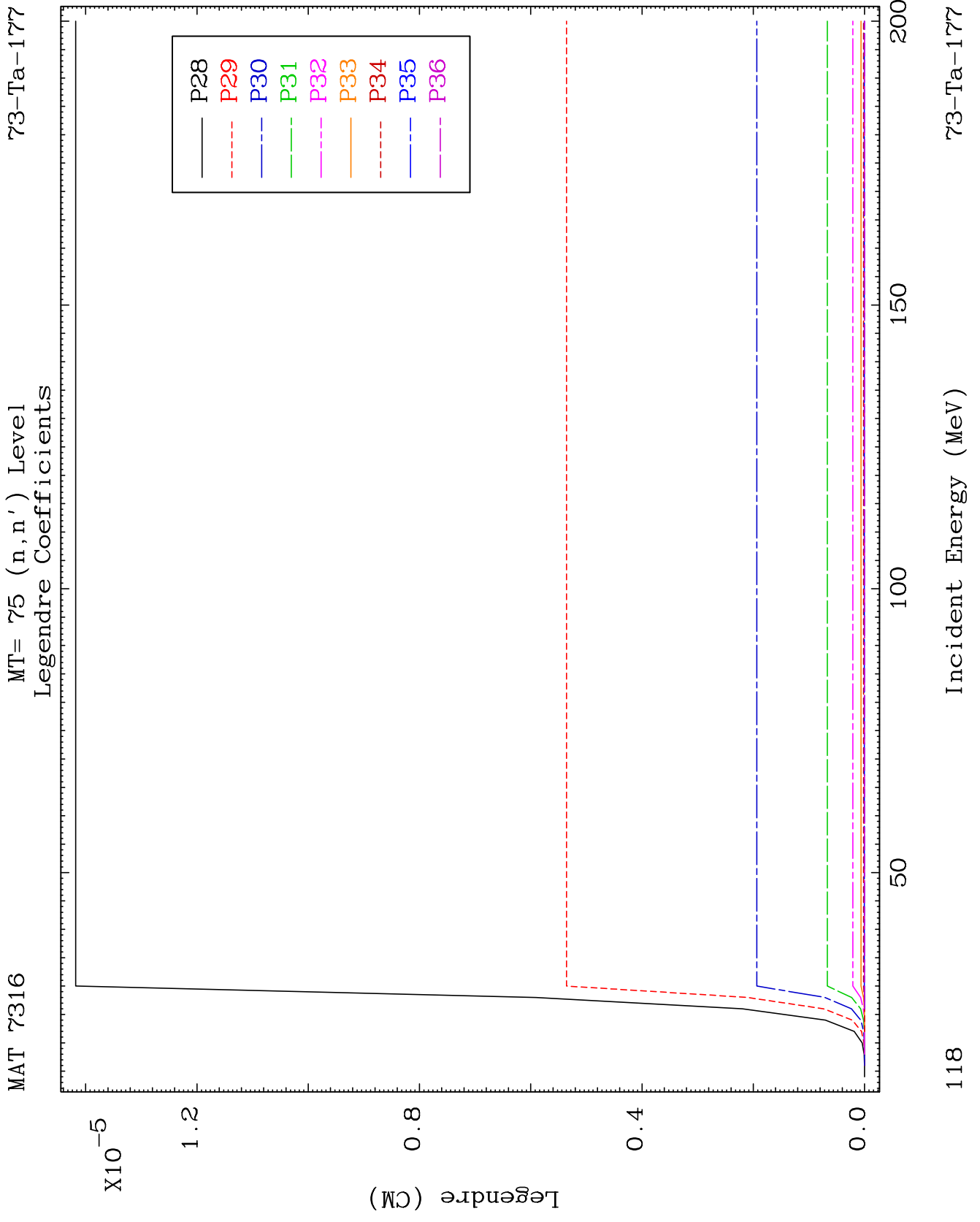








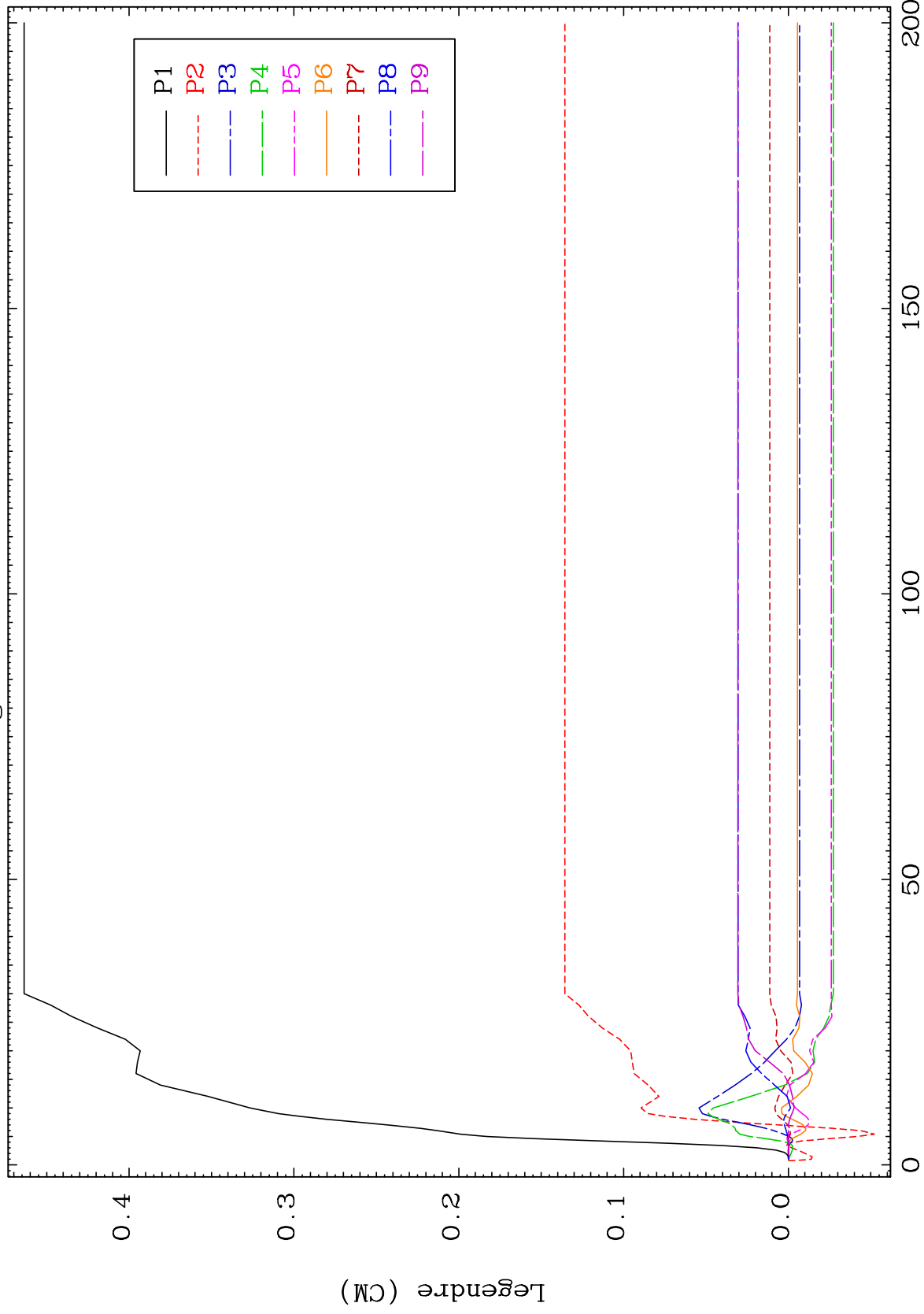




MAT 7316

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

73-Ta-177

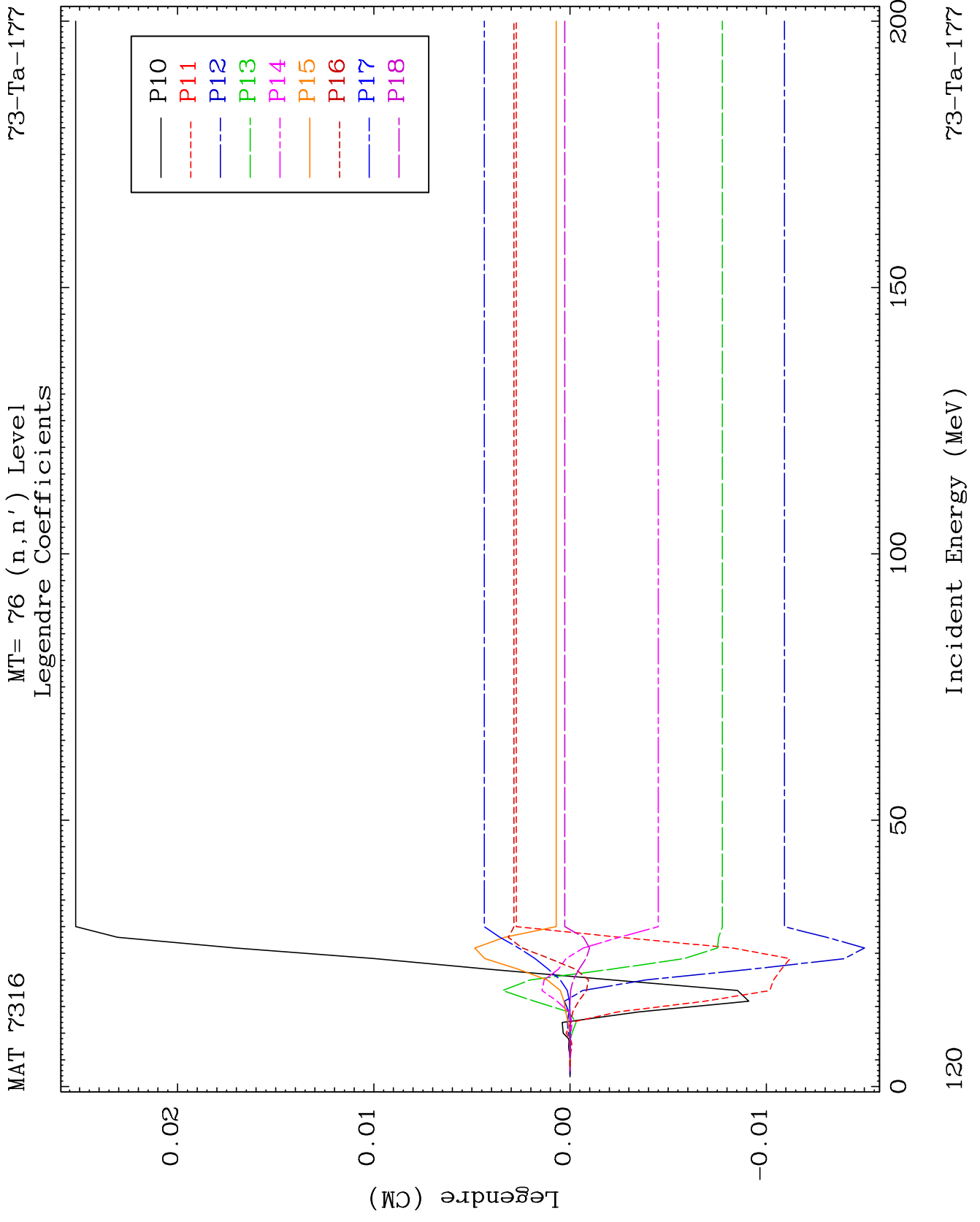


119

Incident Energy (MeV)

73-Ta-177

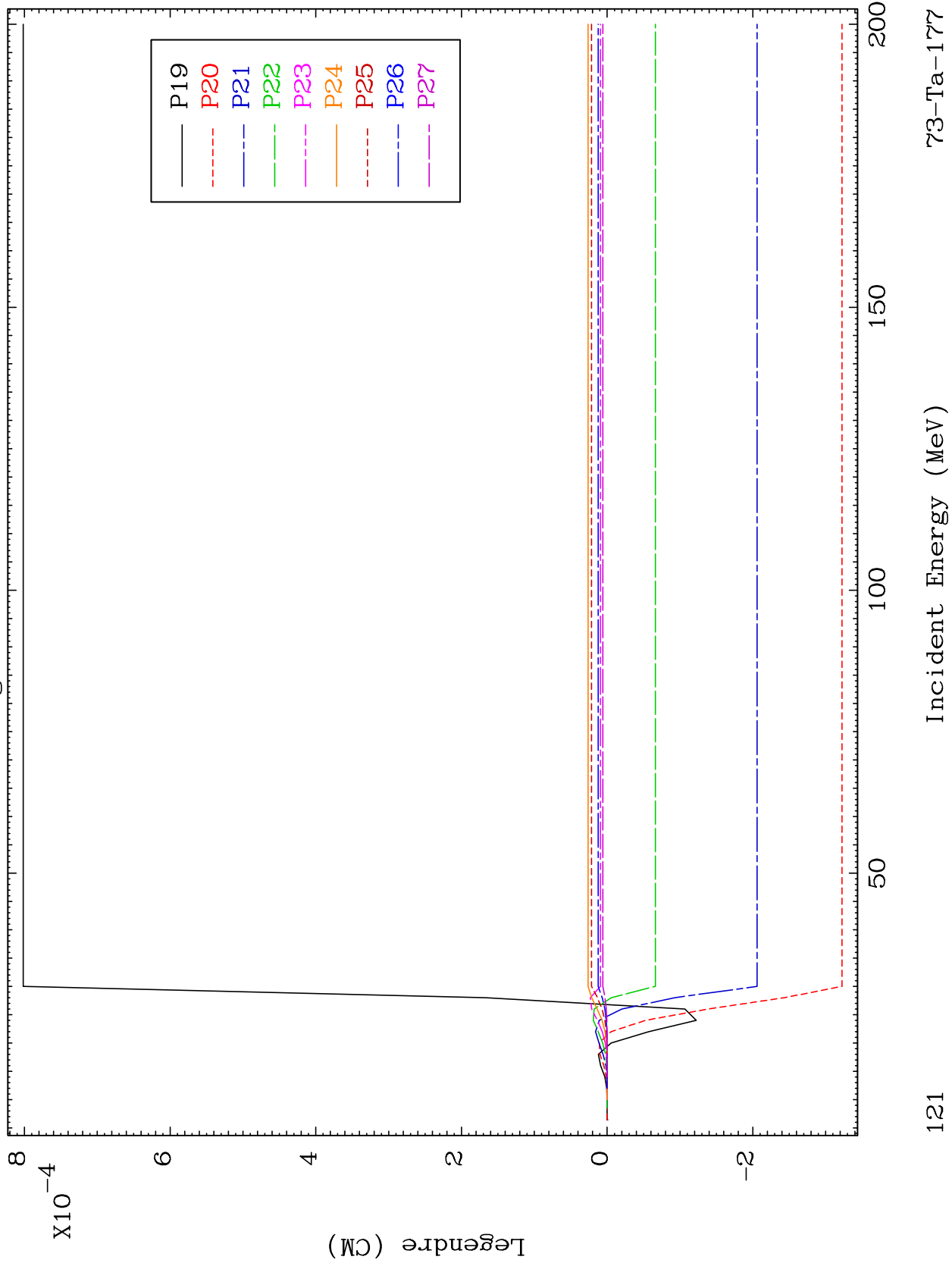




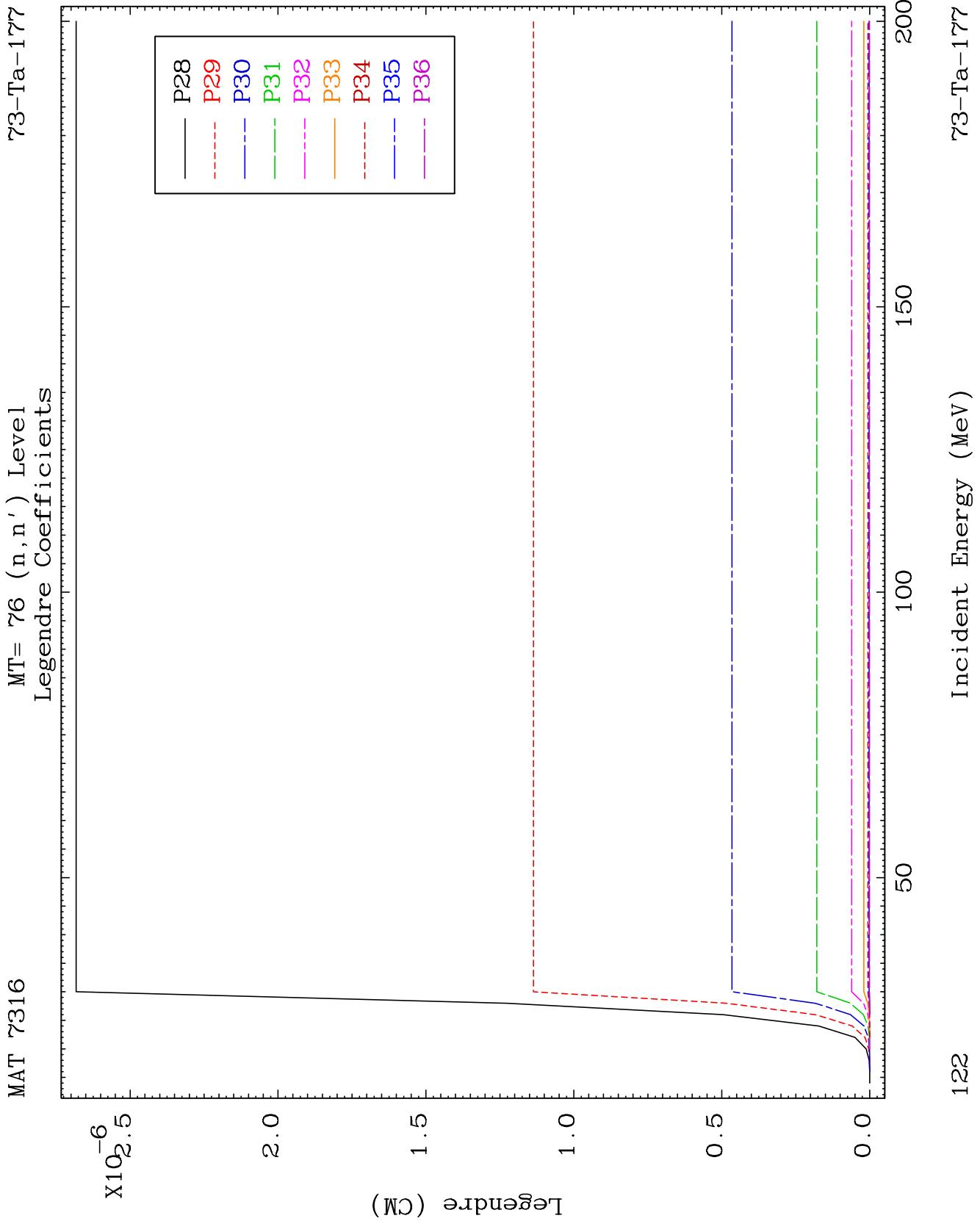
MAT 7316

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

73-Ta-177



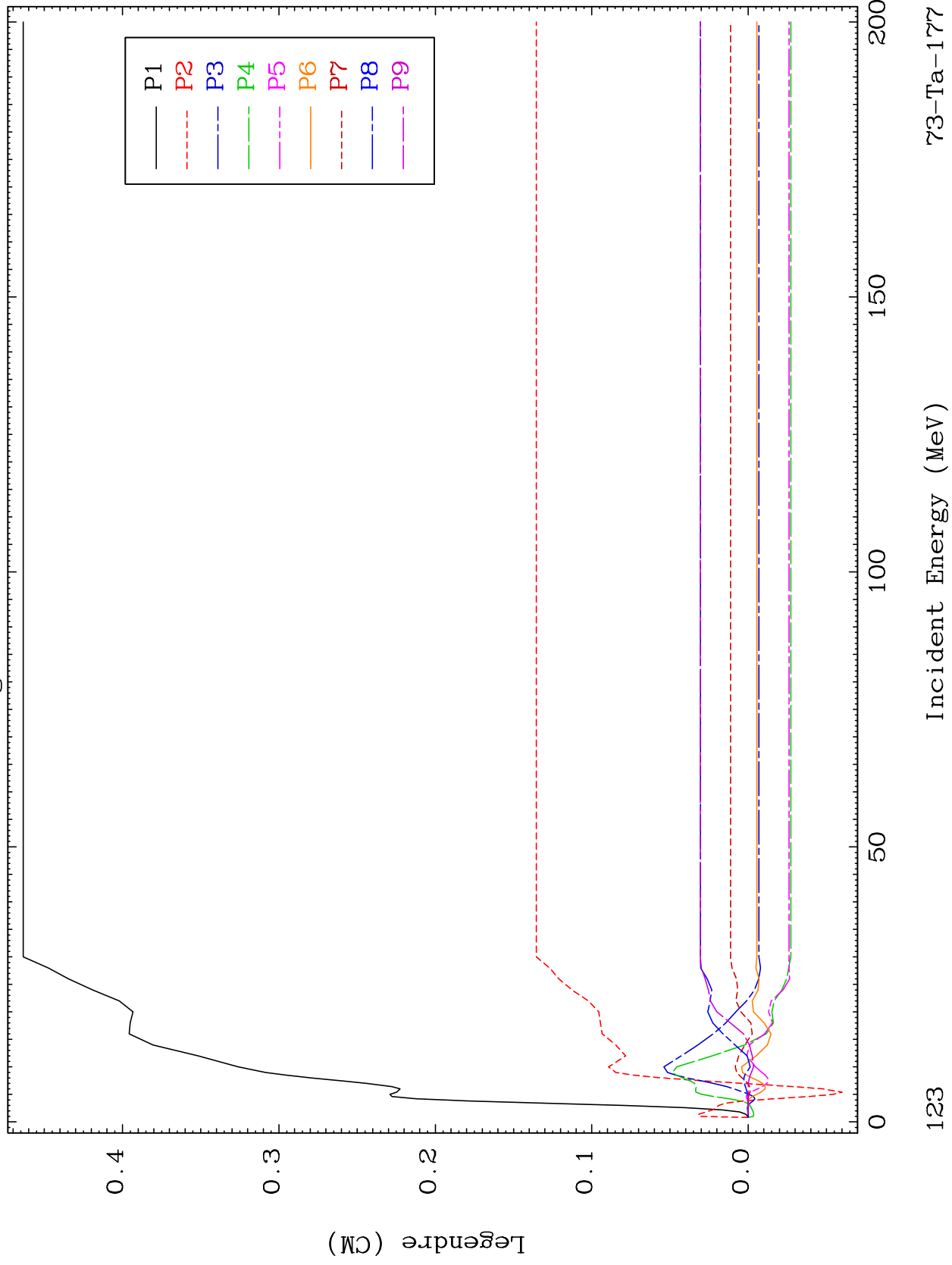
121



MAT 7316

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

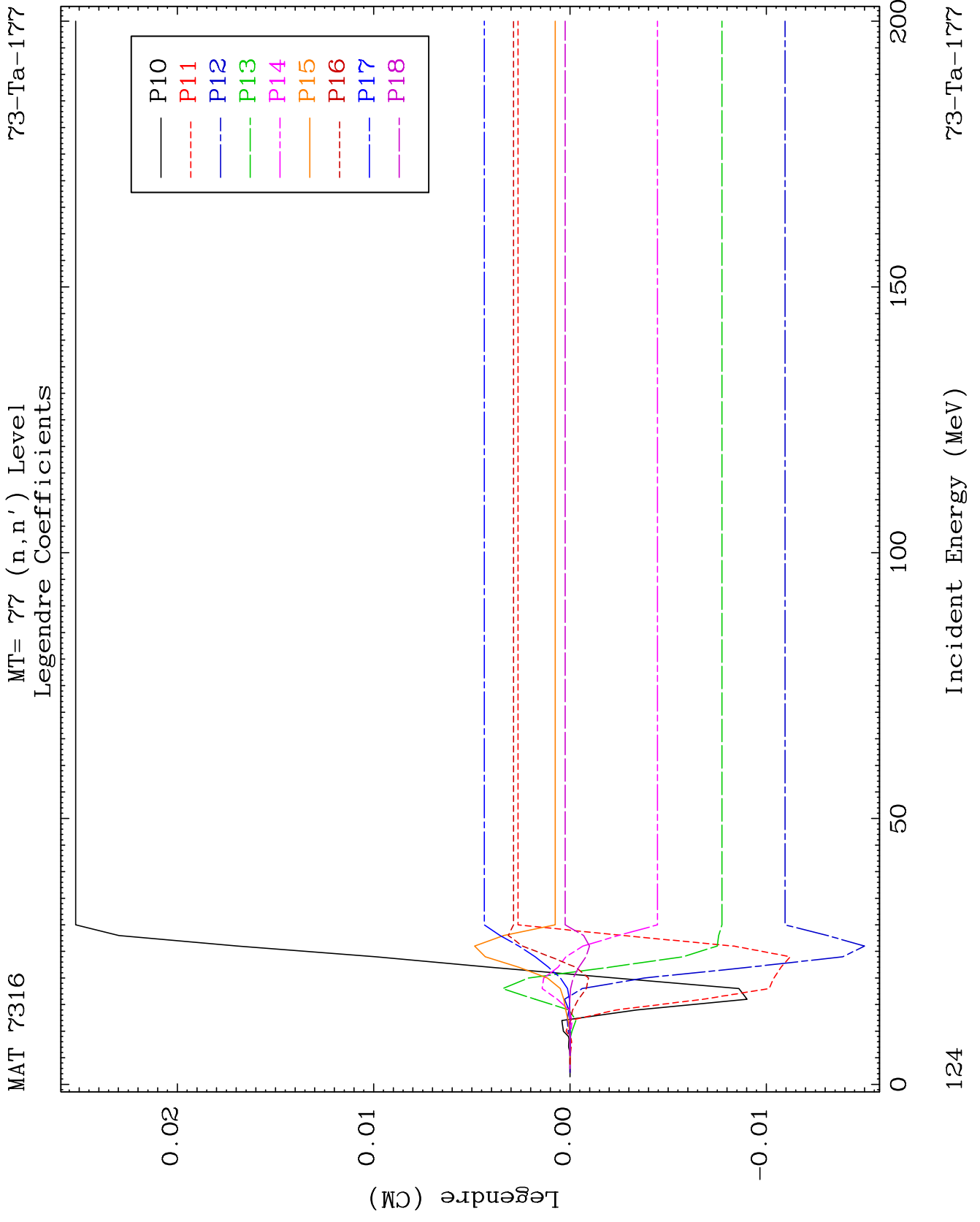
73-Ta-177

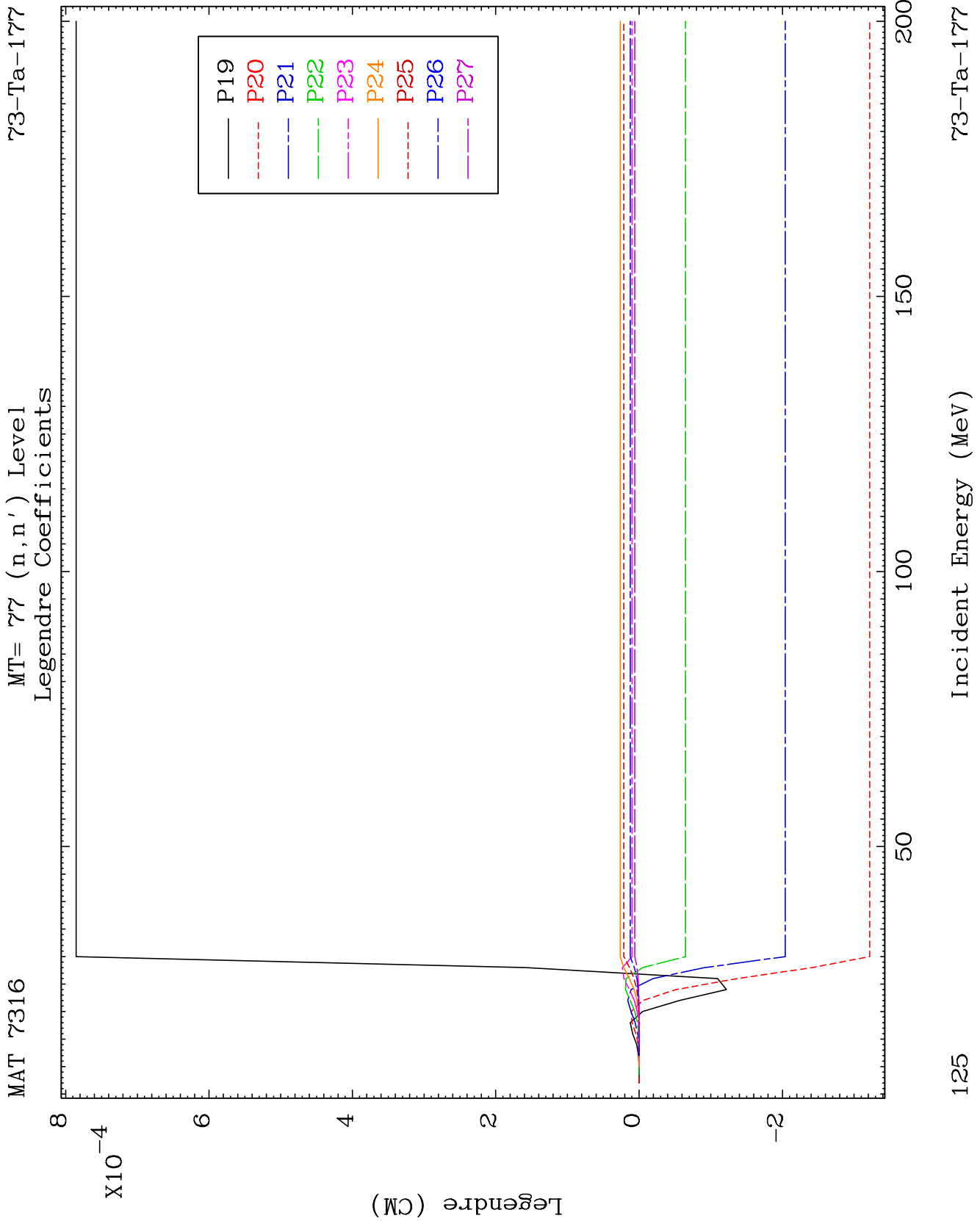


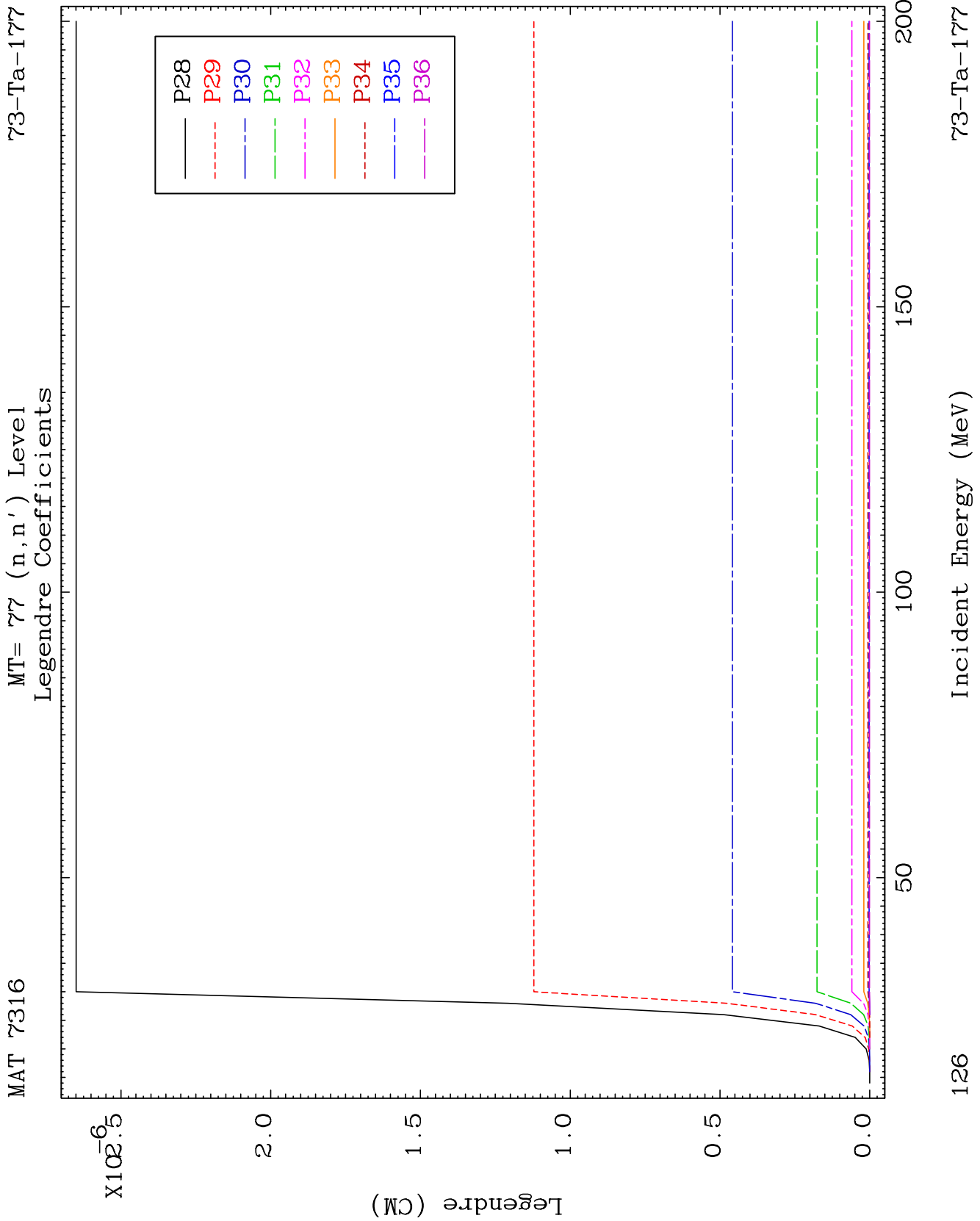
73-Ta-177

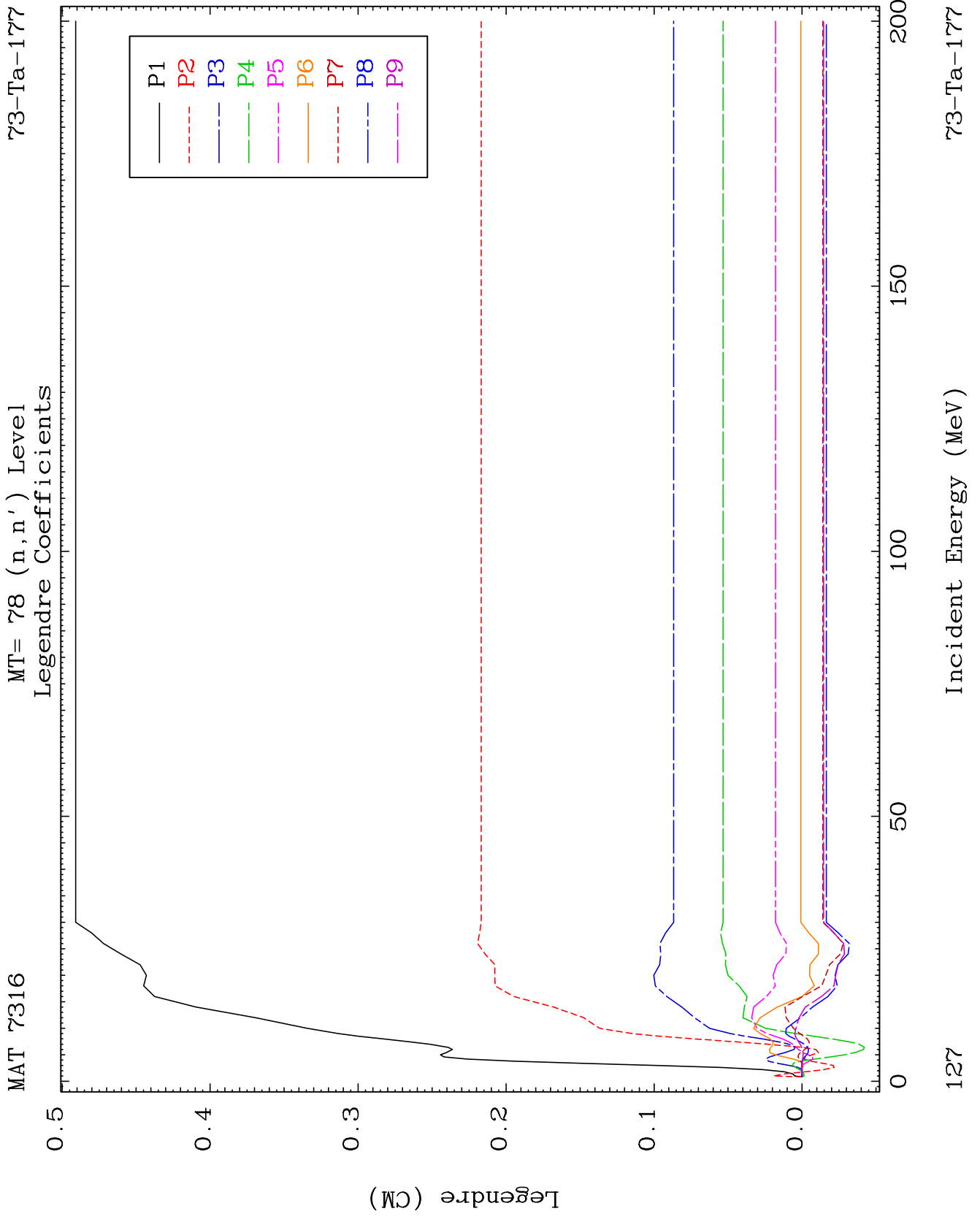
Incident Energy (MeV)

123







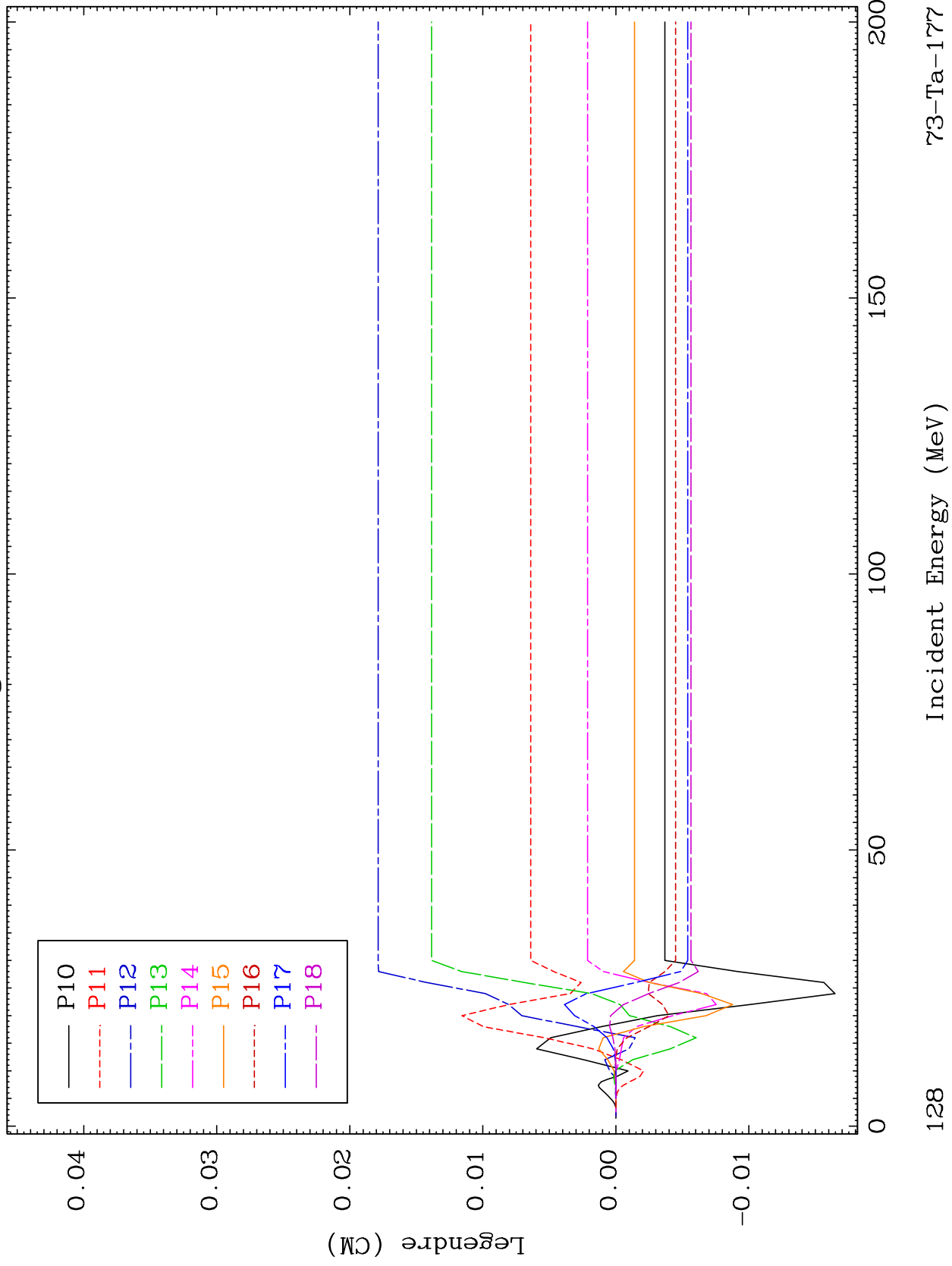




MAT 7316

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

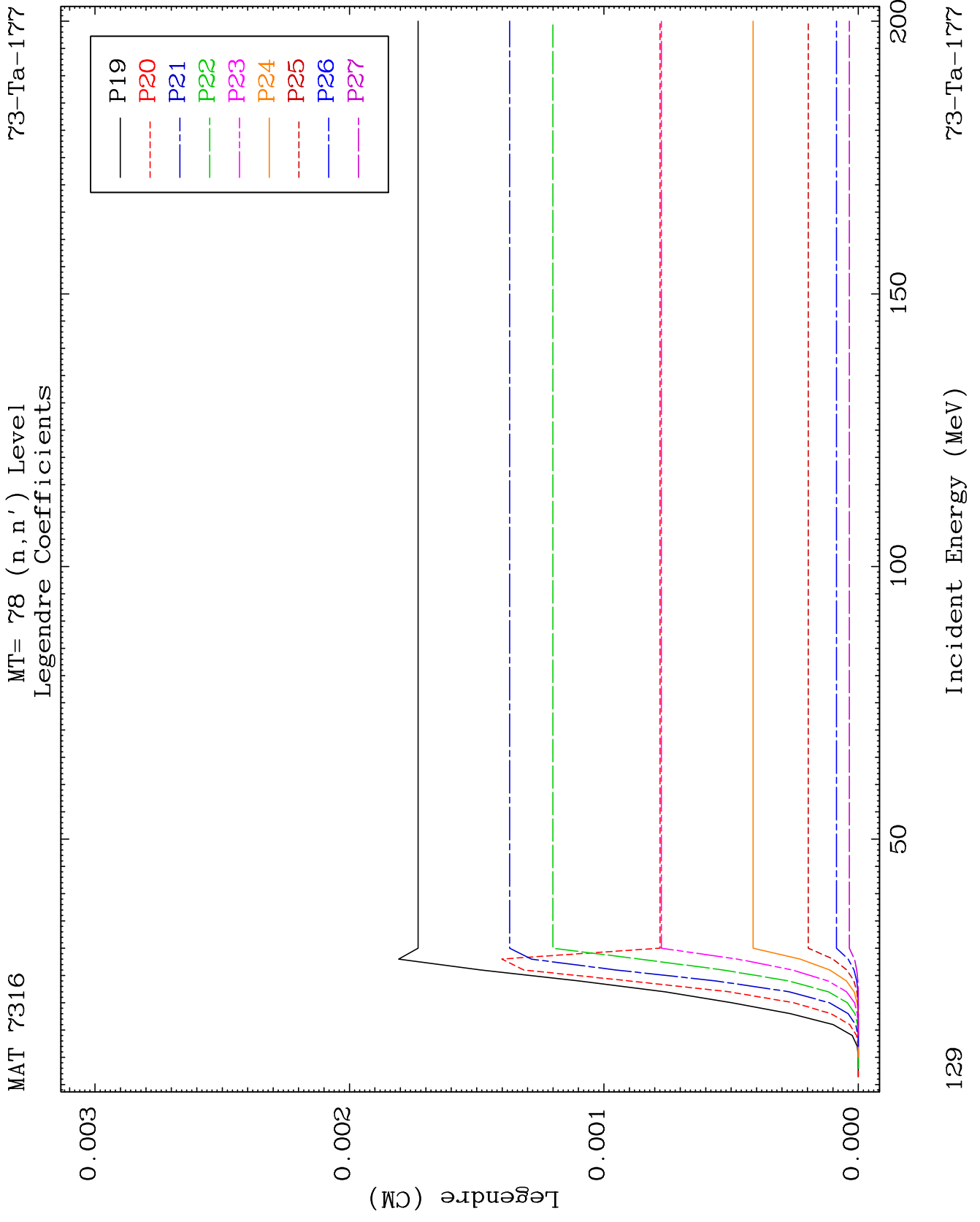
<sup>73</sup>Ta-177



128

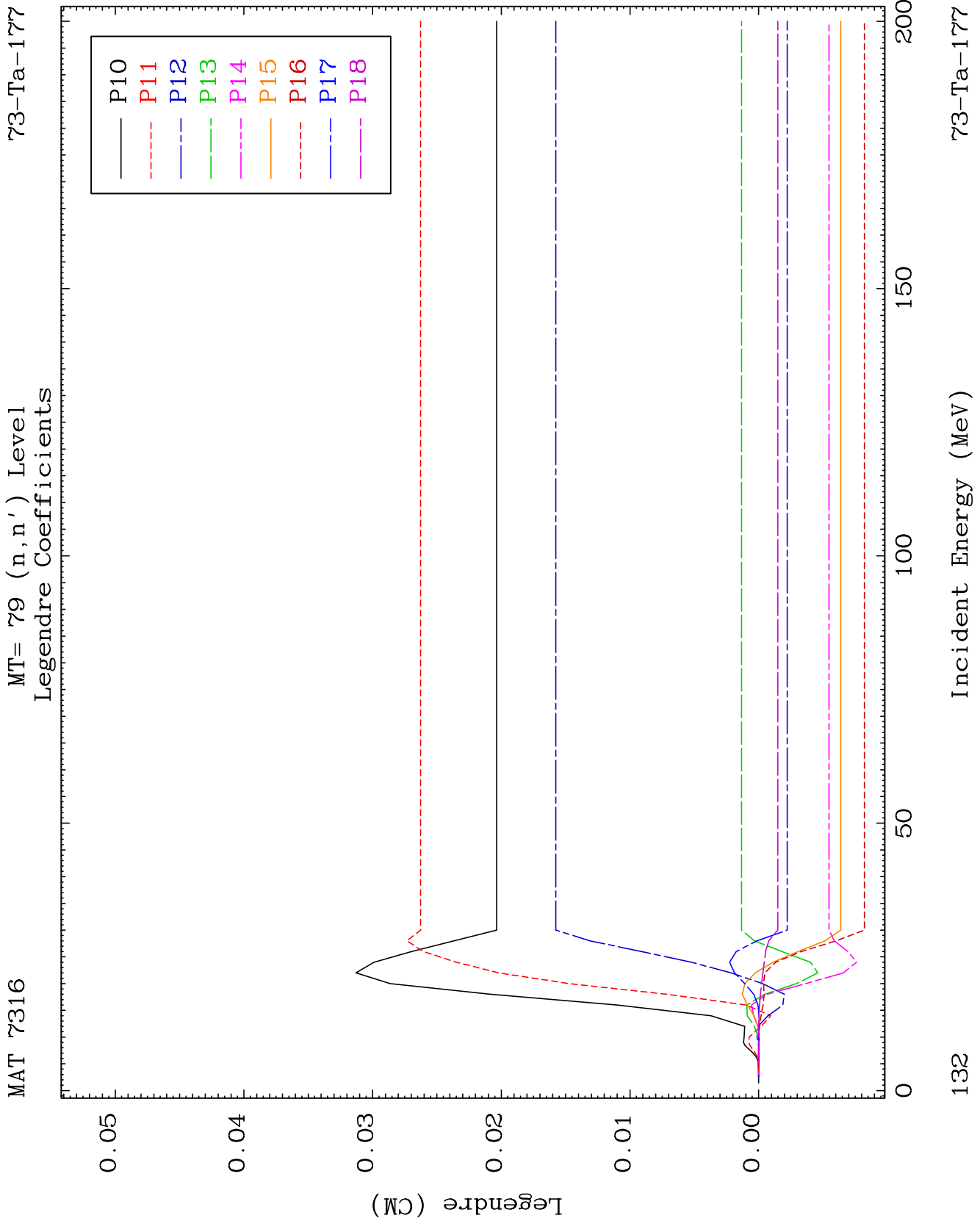
Incident Energy (MeV)

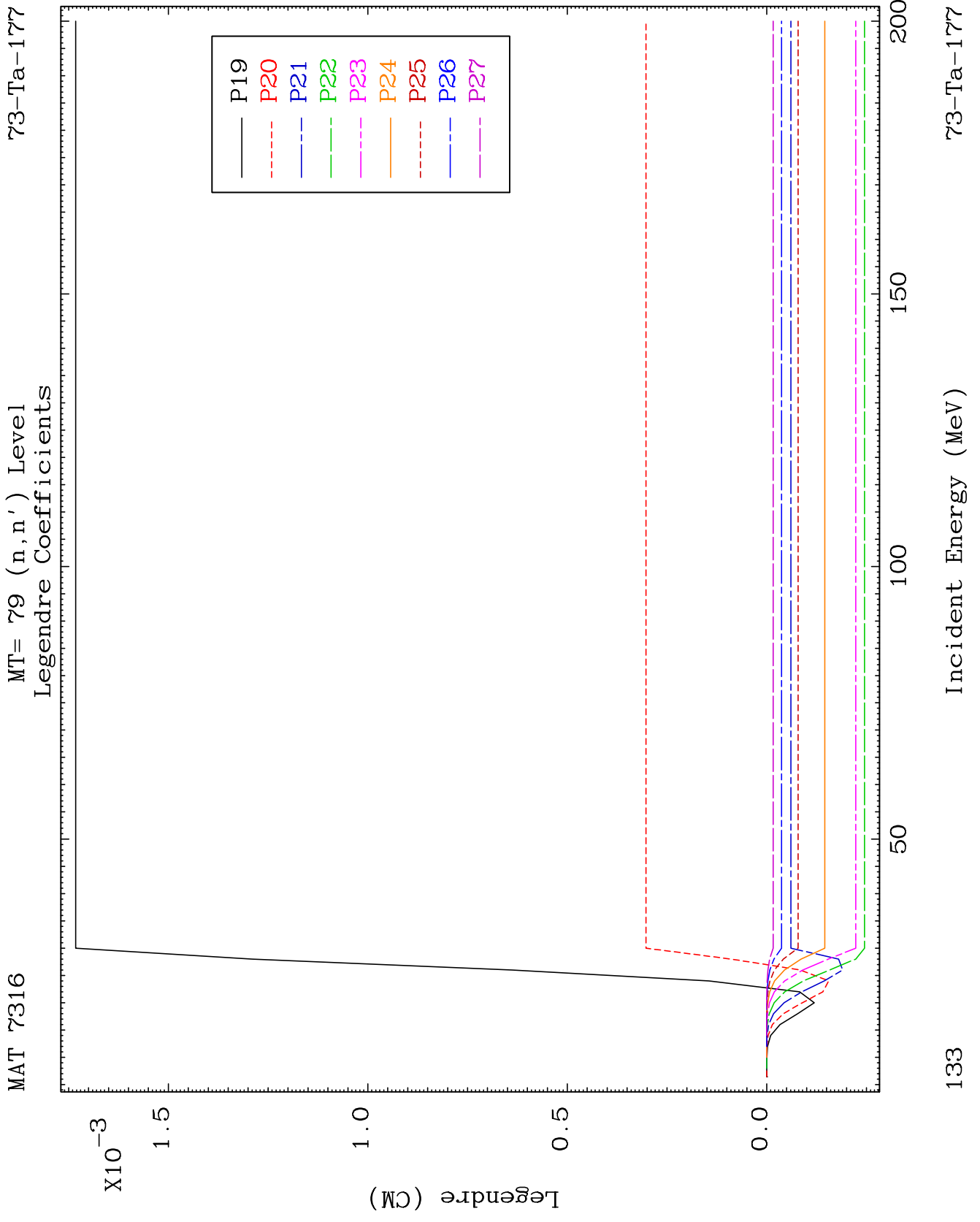
<sup>73</sup>Ta-177

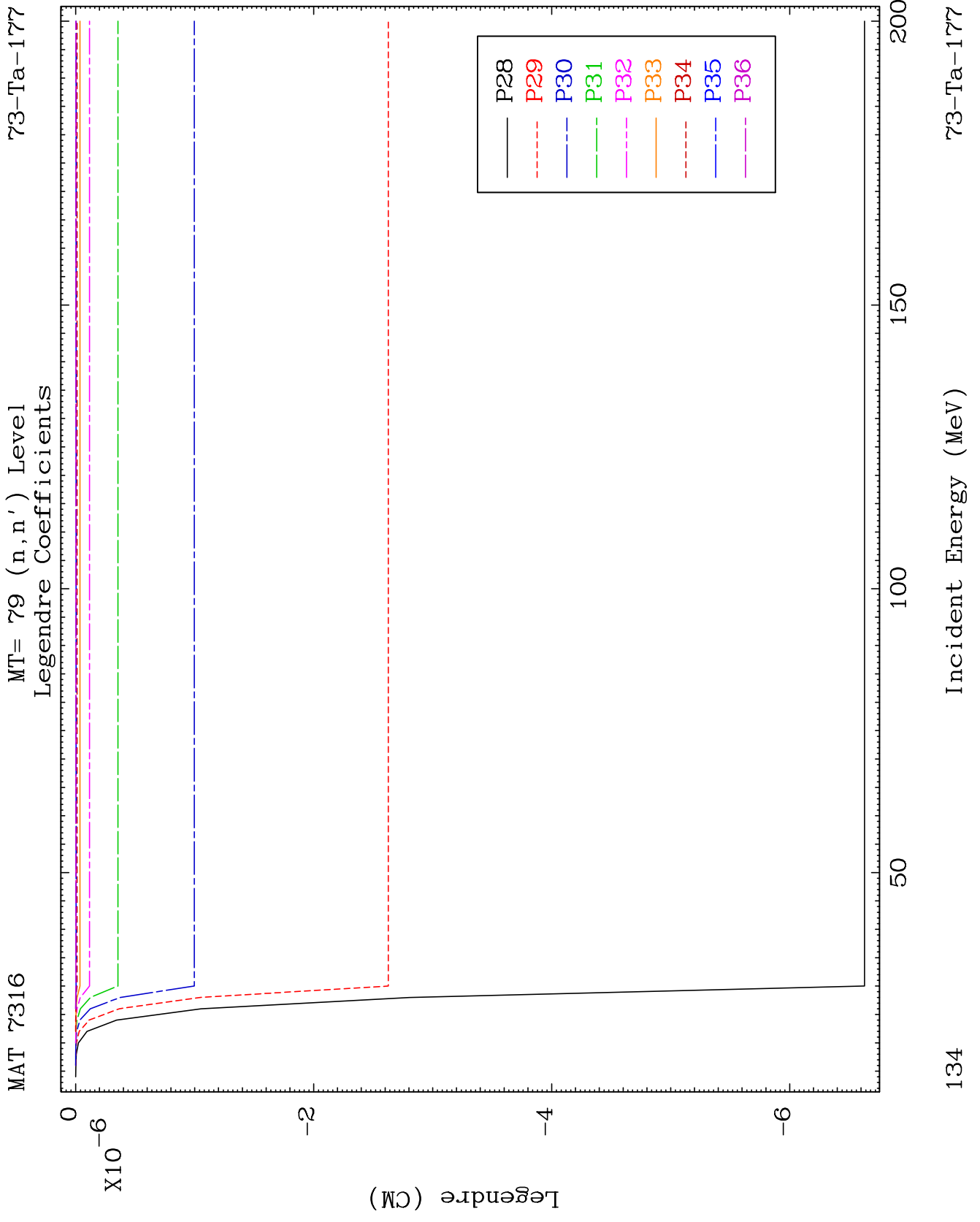










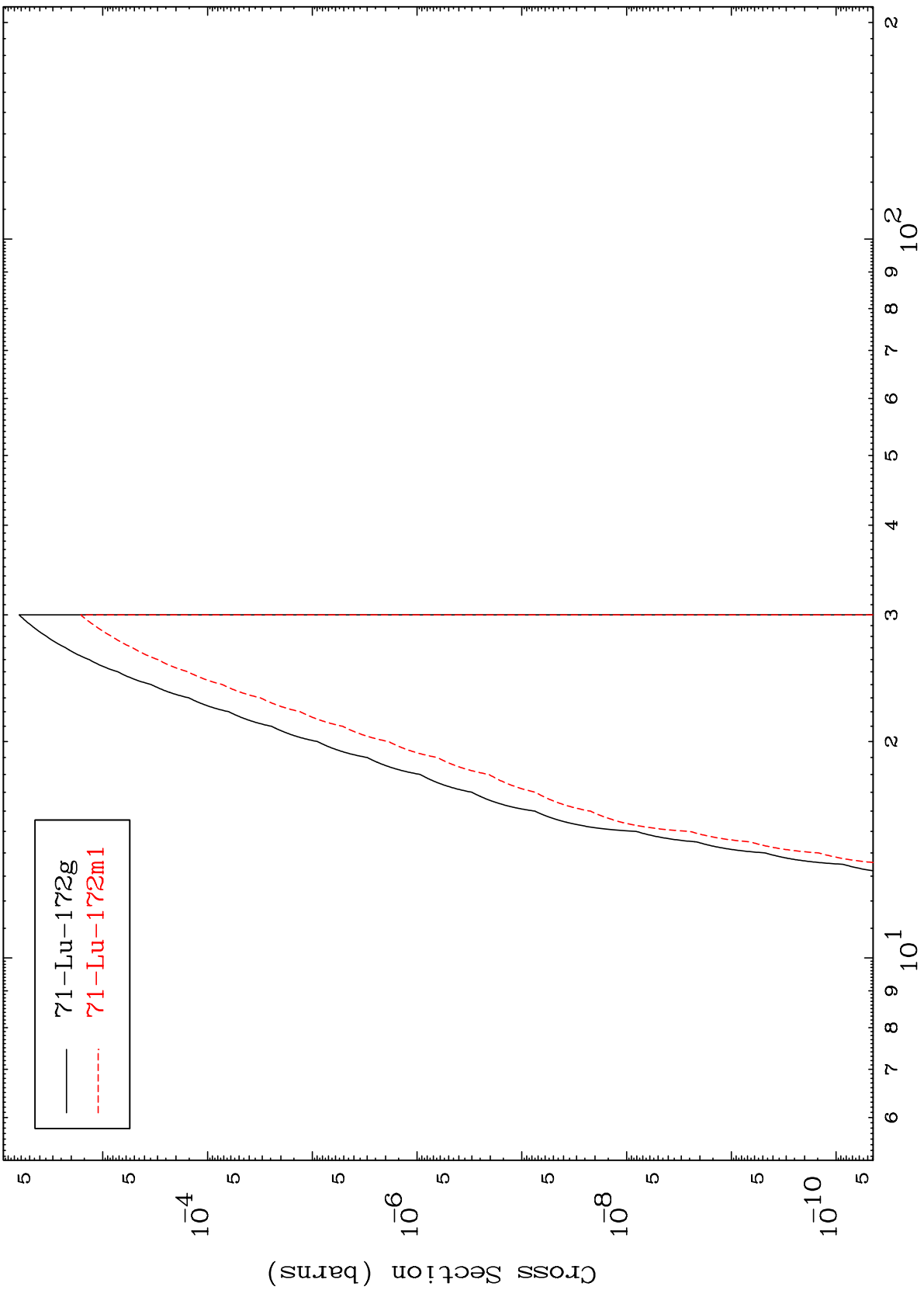


MAT 7316

$(n, 2n)$   $\alpha$

$^{73}\text{Ta-177}$

Radionuclide Production Cross Section



71-Lu-172g  
71-Lu-172m1

135

Incident Energy (MeV)

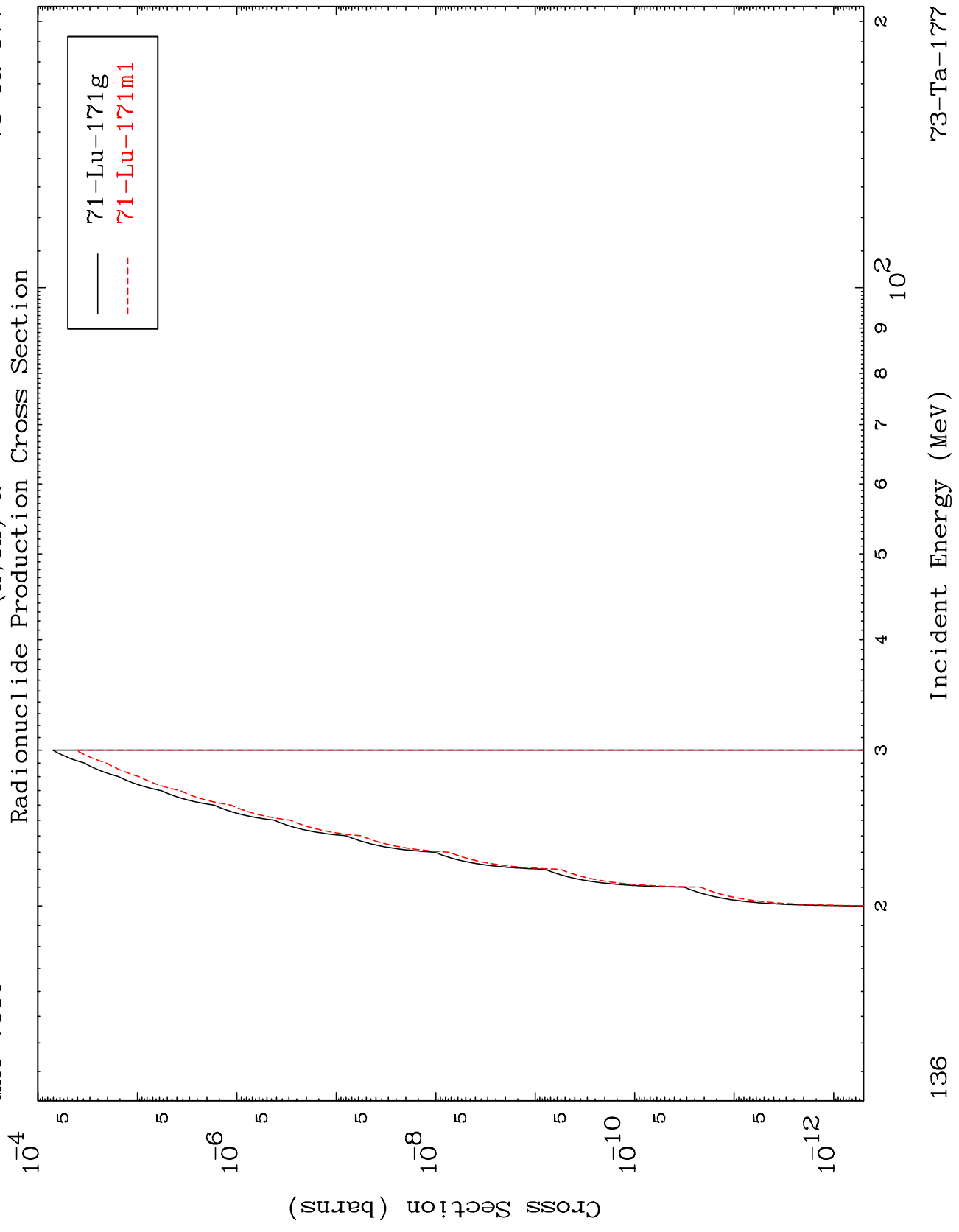
$^{73}\text{Ta-177}$



MAT 7316

(n,3n)  $\alpha$

73-Ta-177



136

Incident Energy (MeV)

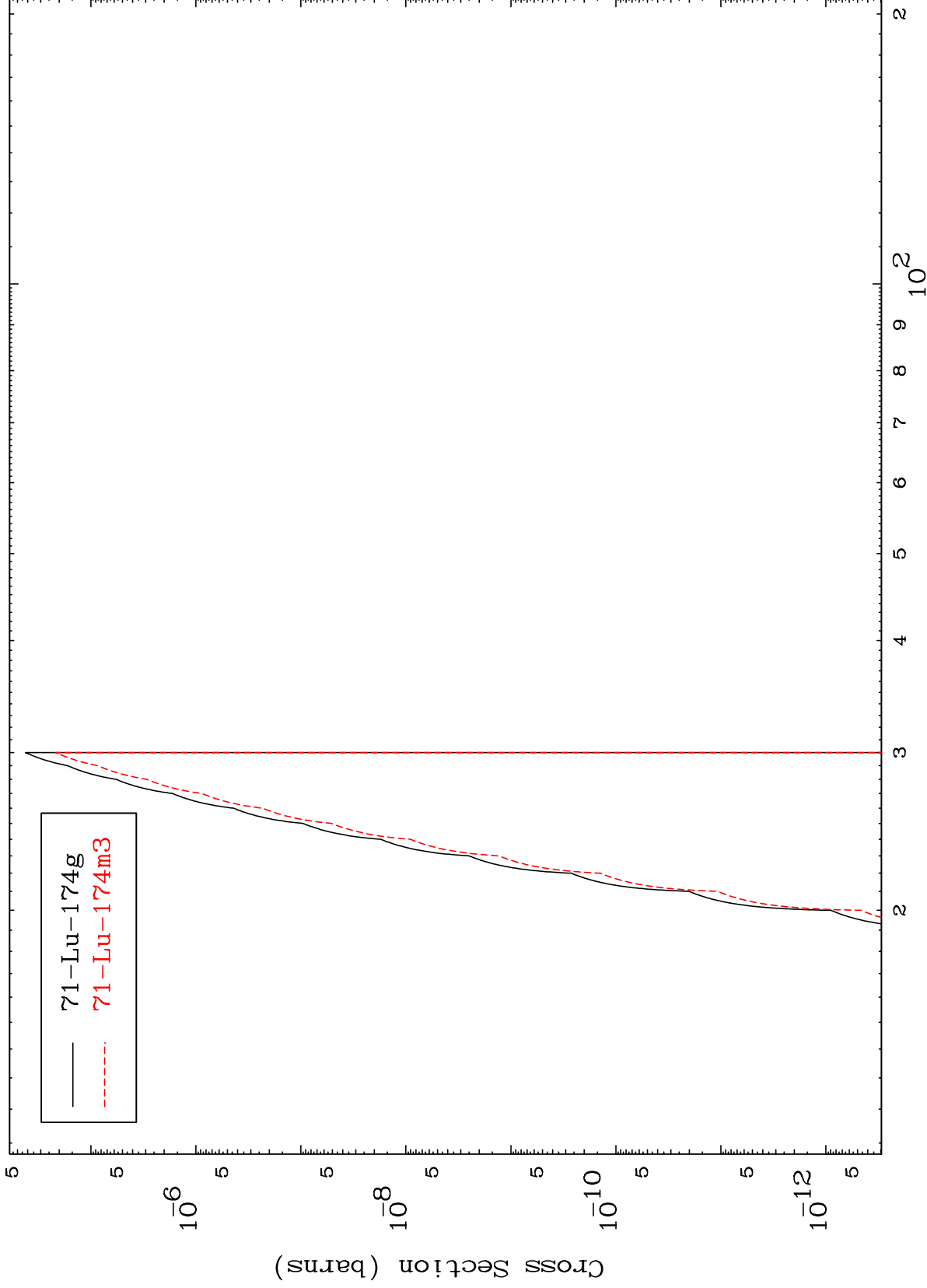
73-Ta-177

MAT 7316

(n,n') He-3

73-Ta-177

Radionuclide Production Cross Section



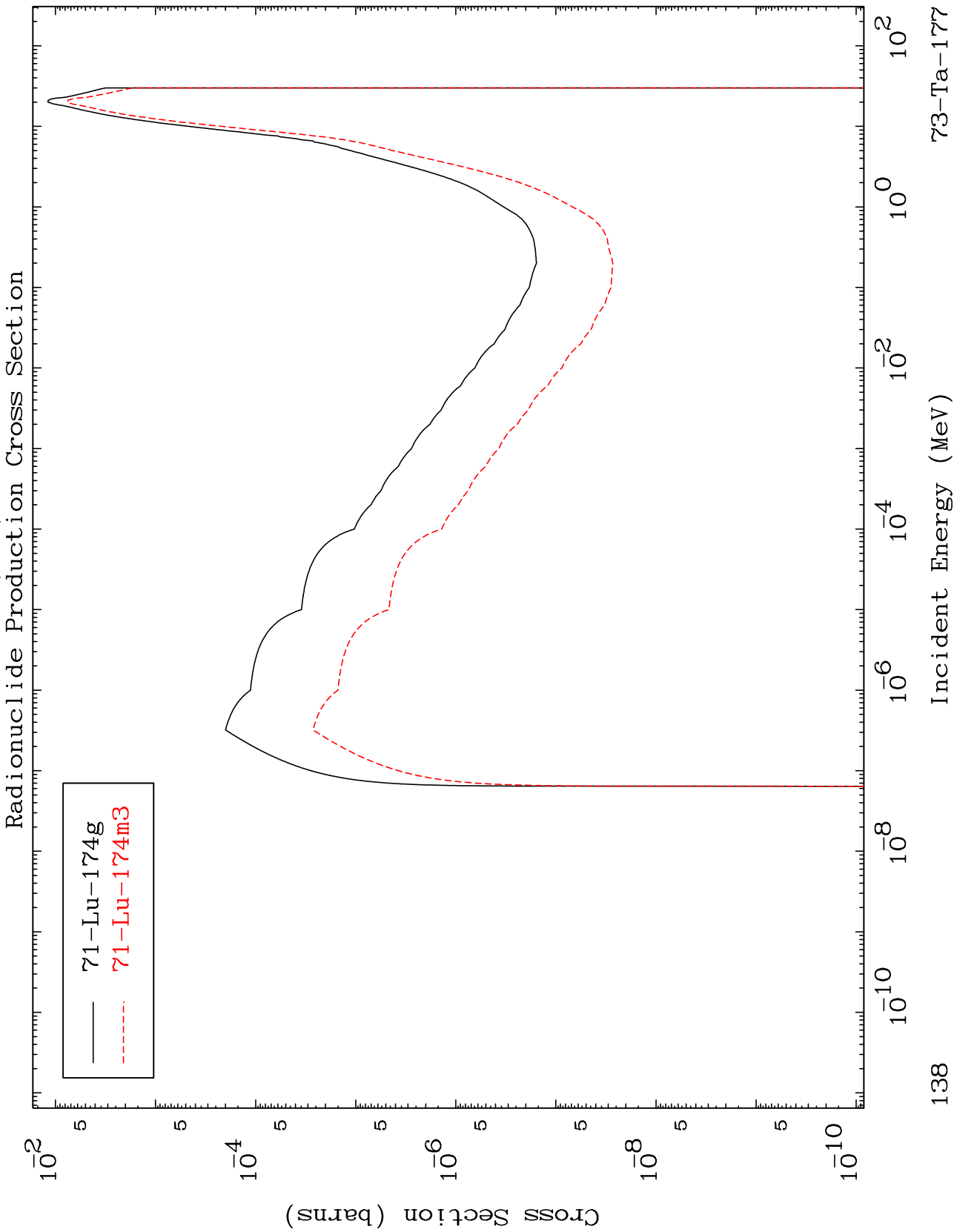
137

Incident Energy (MeV)

73-Ta-177

MAT 7316

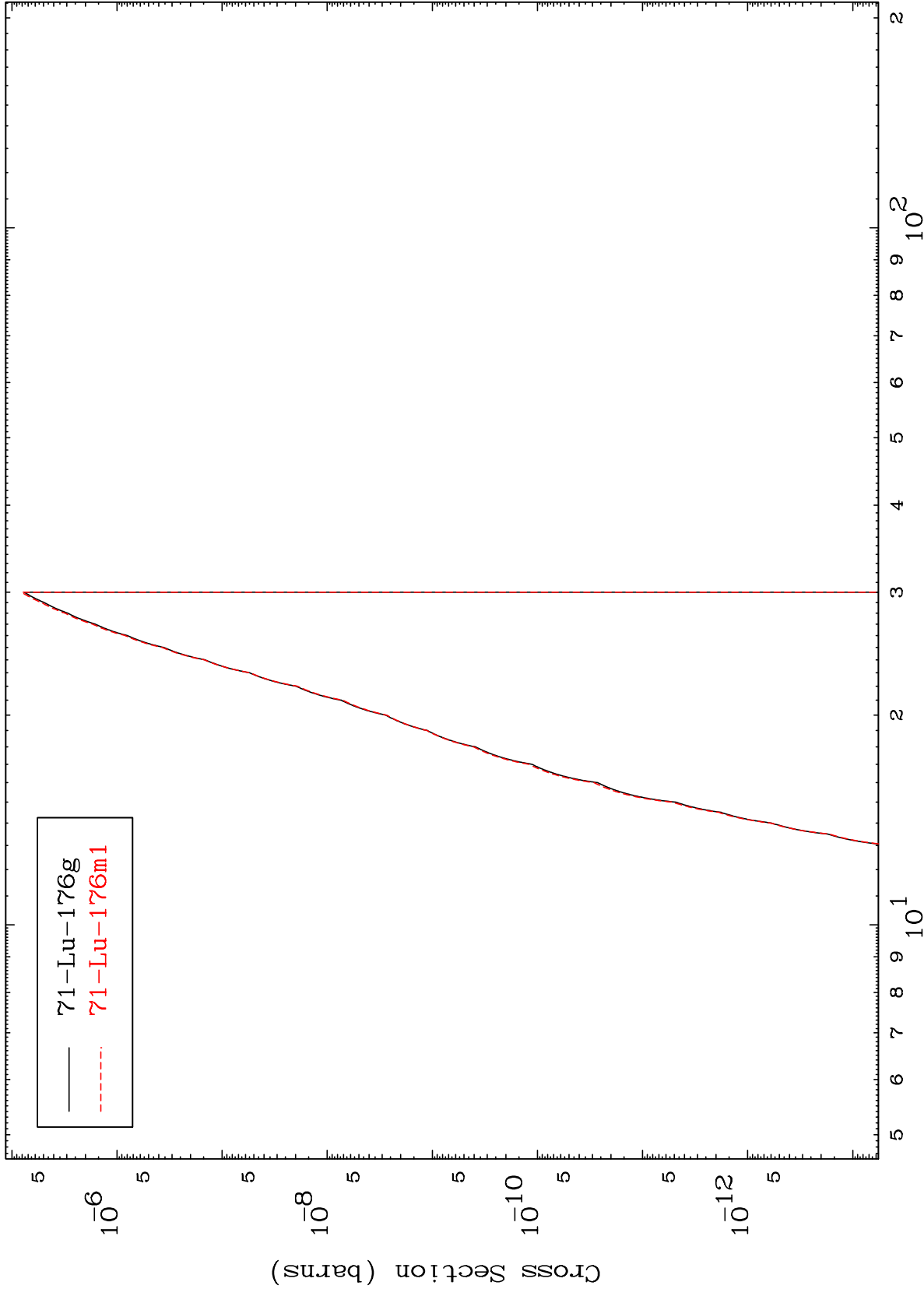
<sup>73</sup>Ta-177



MAT 7316

73-Ta-177

(n,2p)  
Radionuclide Production Cross Section



139

Incident Energy (MeV)

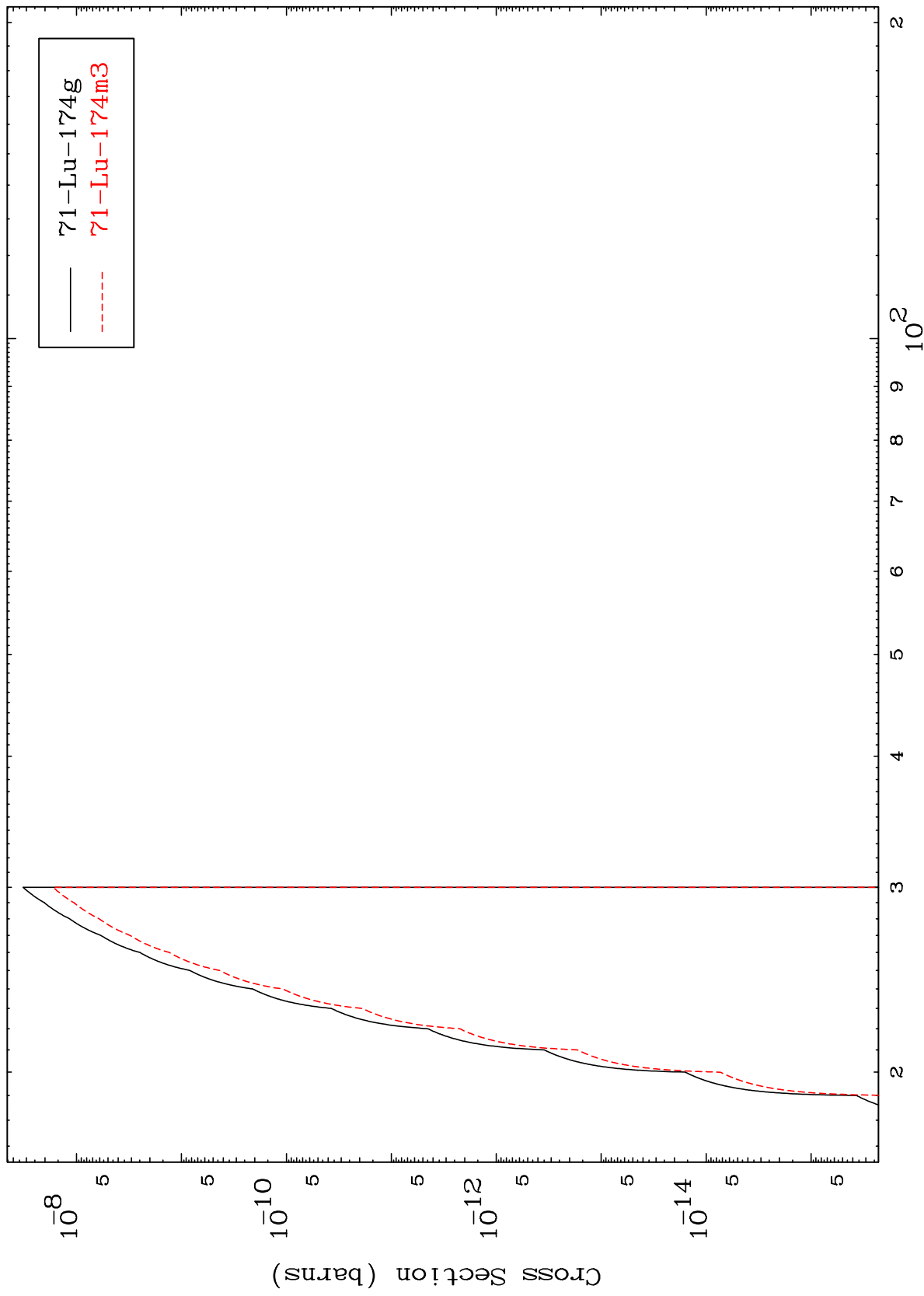
73-Ta-177

MAT 7316

(n,p) t

<sup>73</sup>Ta-177

Radionuclide Production Cross Section



140

Incident Energy (MeV)

<sup>73</sup>Ta-177