

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

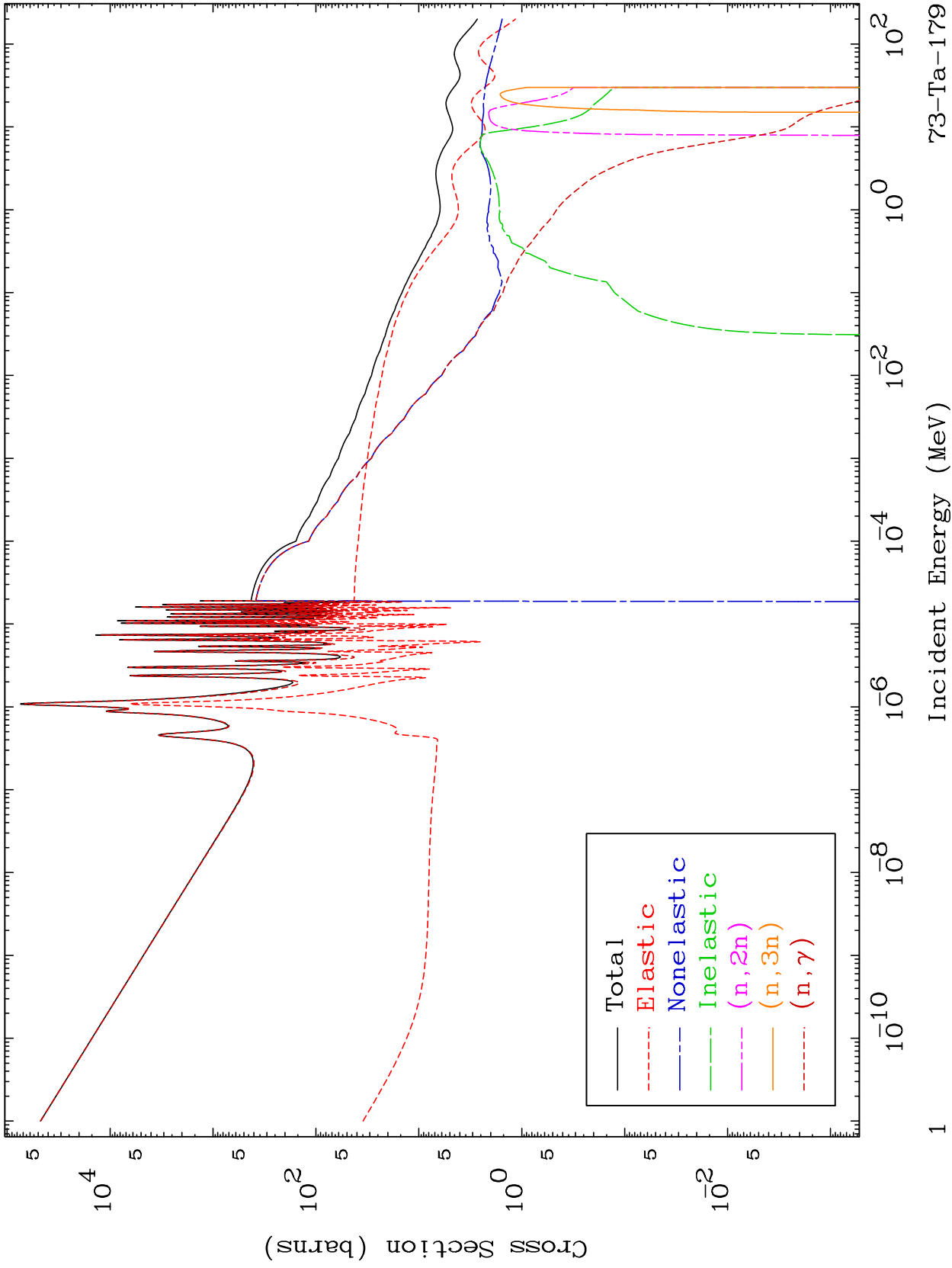
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 7322

Neutron Major
293 Kelvin Cross Sections

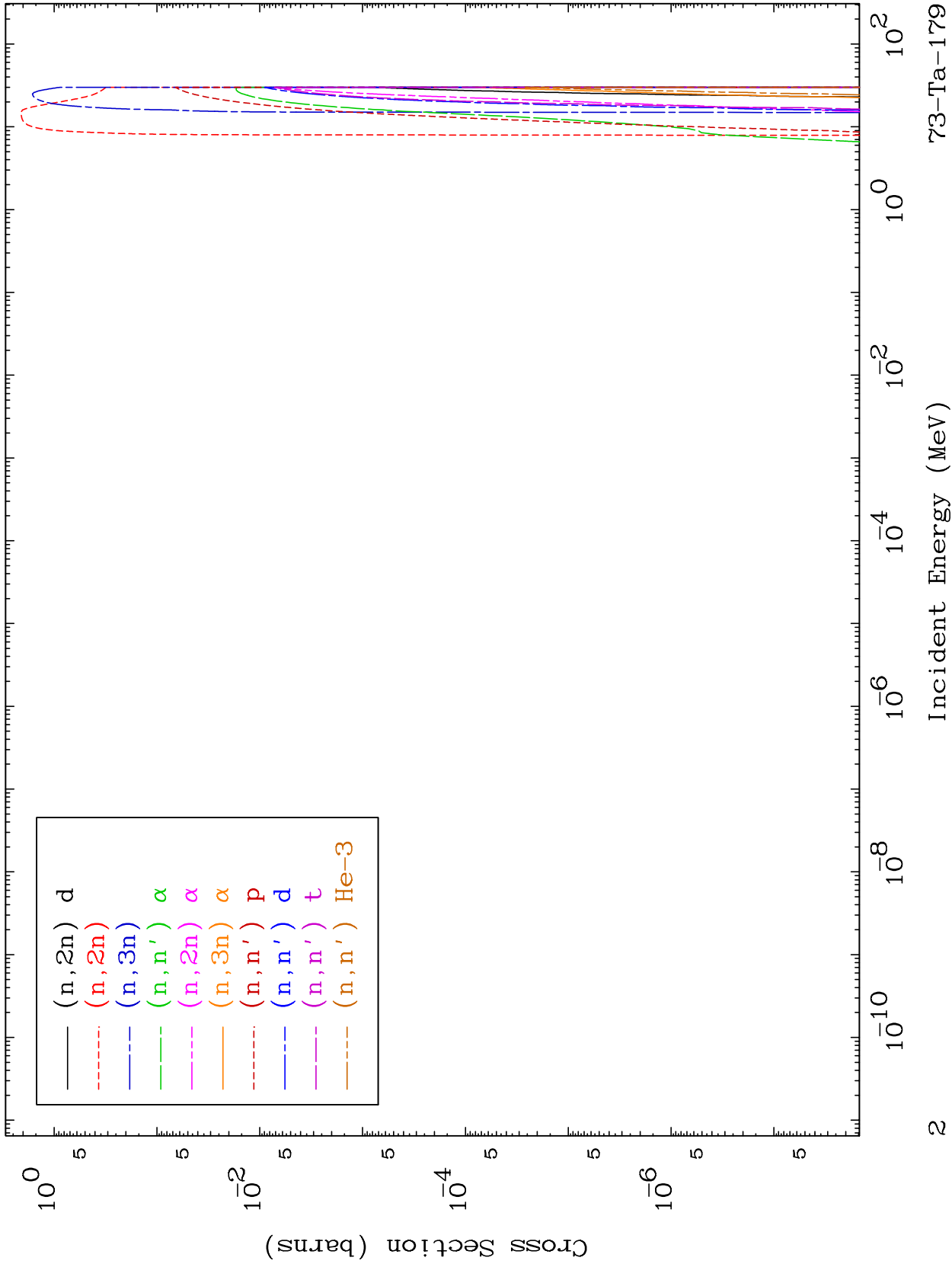
73-Ta-179



MAT 7322

Neutron Absorption
293 Kelvin Cross Sections

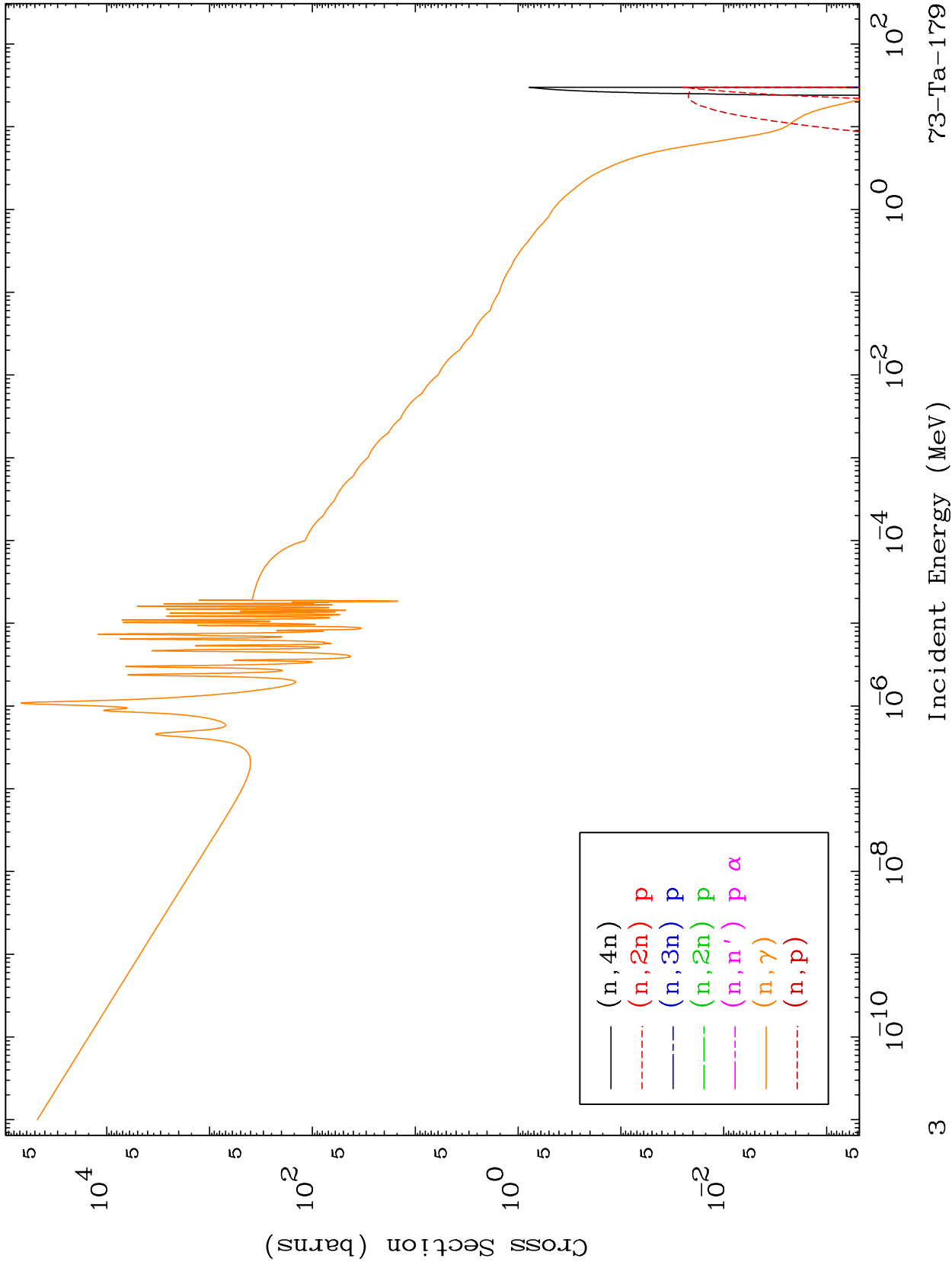
73-Ta-179



MAT 7322

Neutron Absorption
293 Kelvin Cross Sections

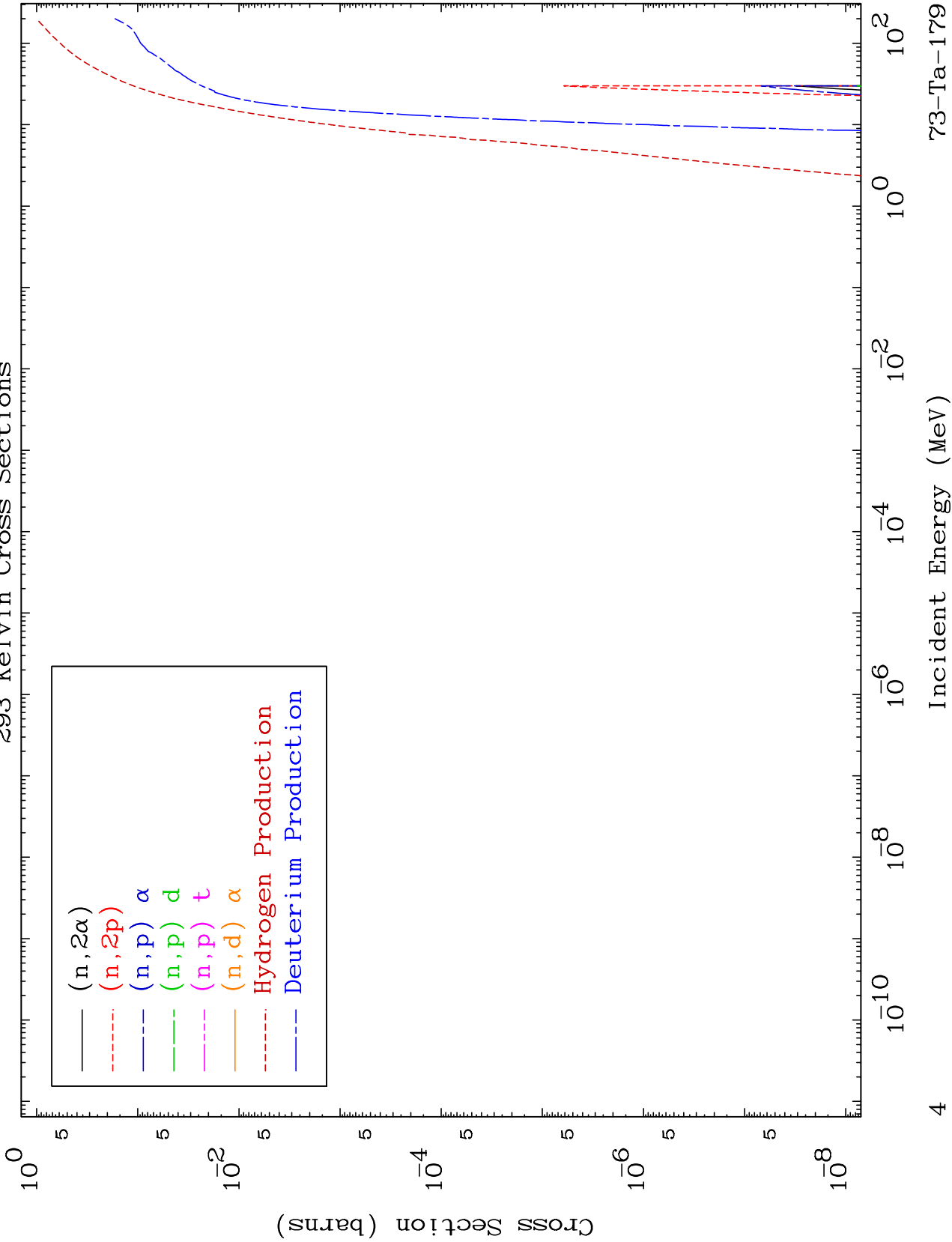
73-Ta-179



MAT 7322

Neutron Absorption
293 Kelvin Cross Sections

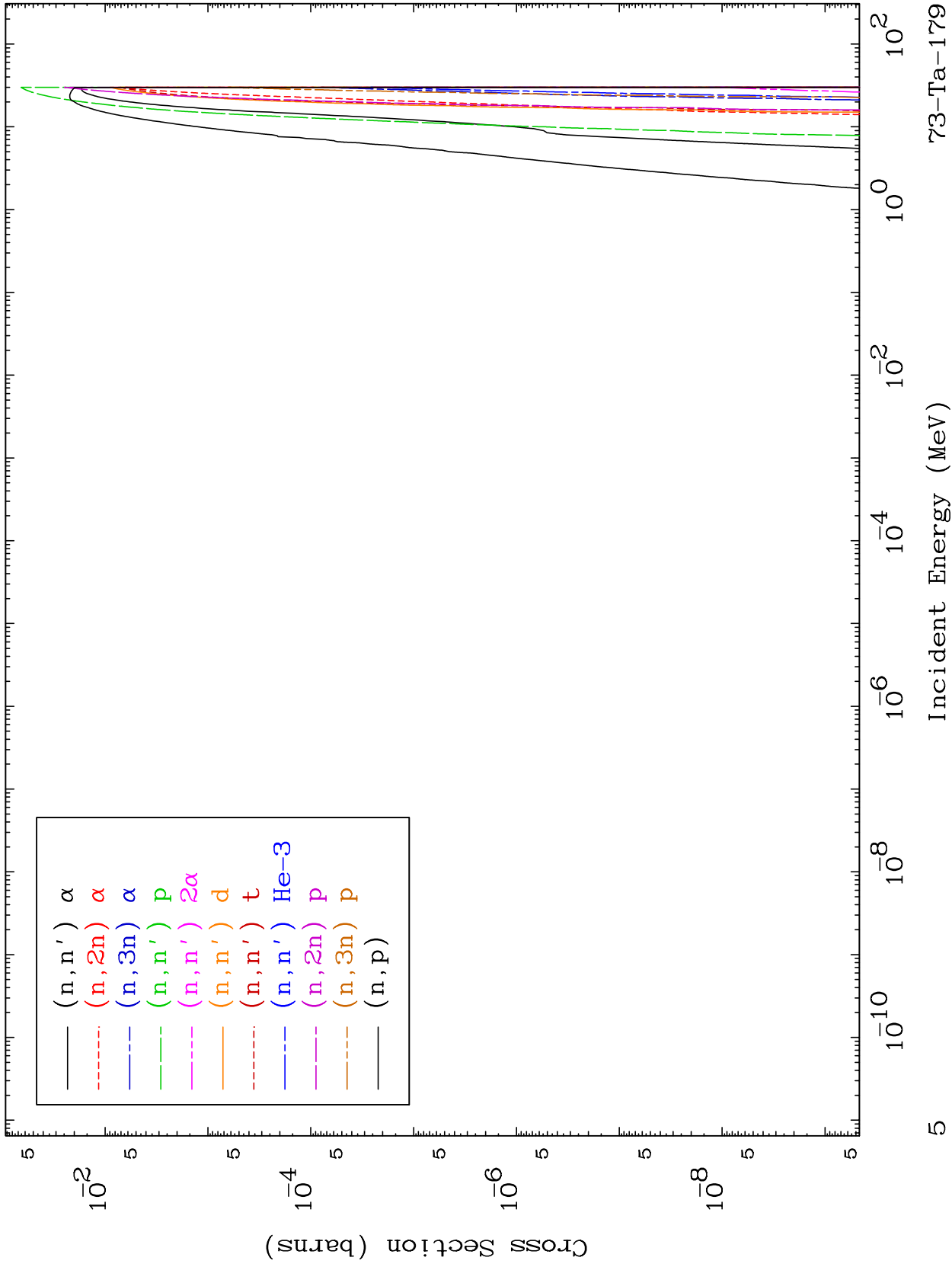
73-Ta-179



MAT 7322

Charged Particle
293 Kelvin Cross Sections

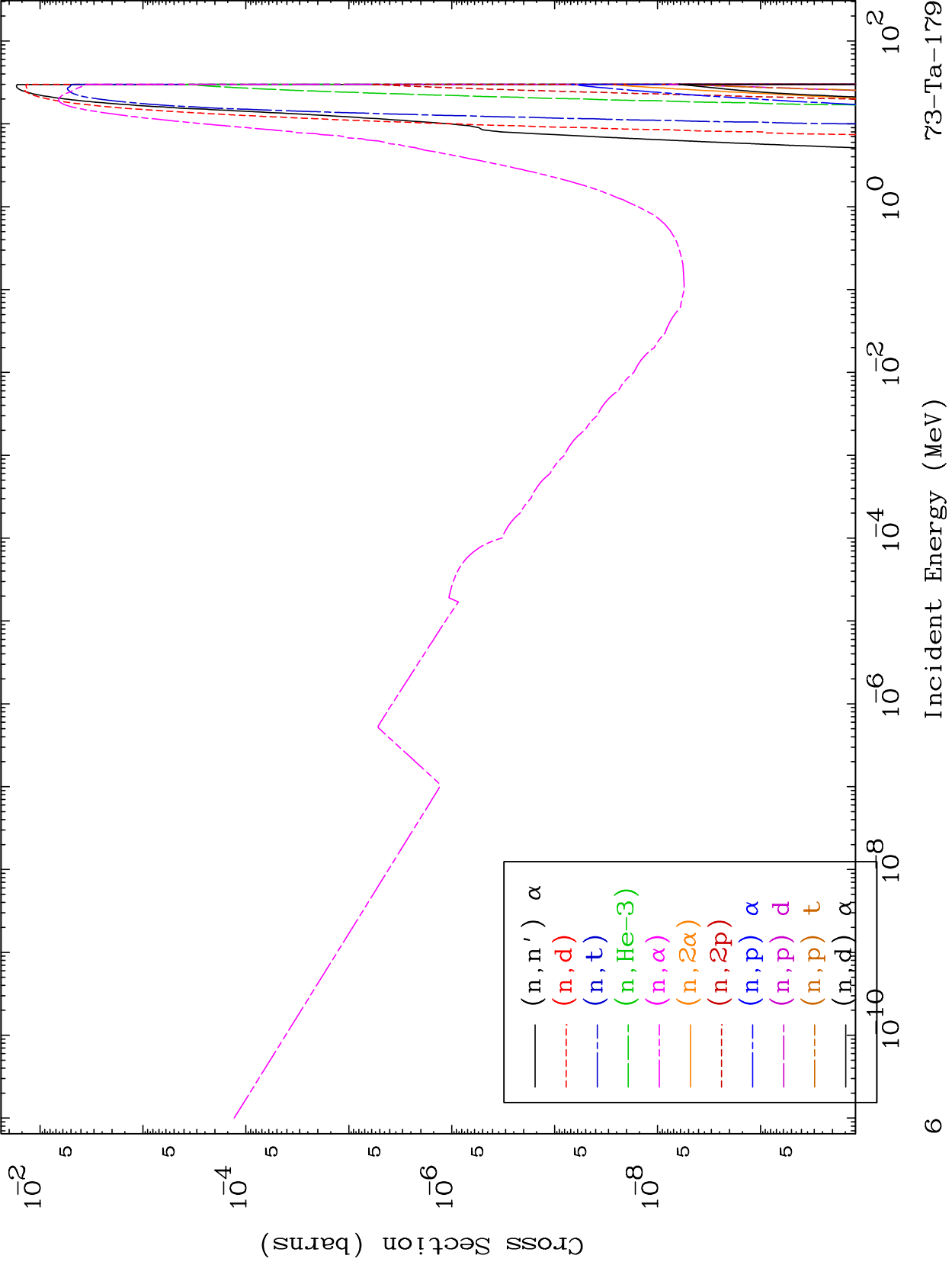
73-Ta-179



MAT 7322

Charged Particle
293 Kelvin Cross Sections

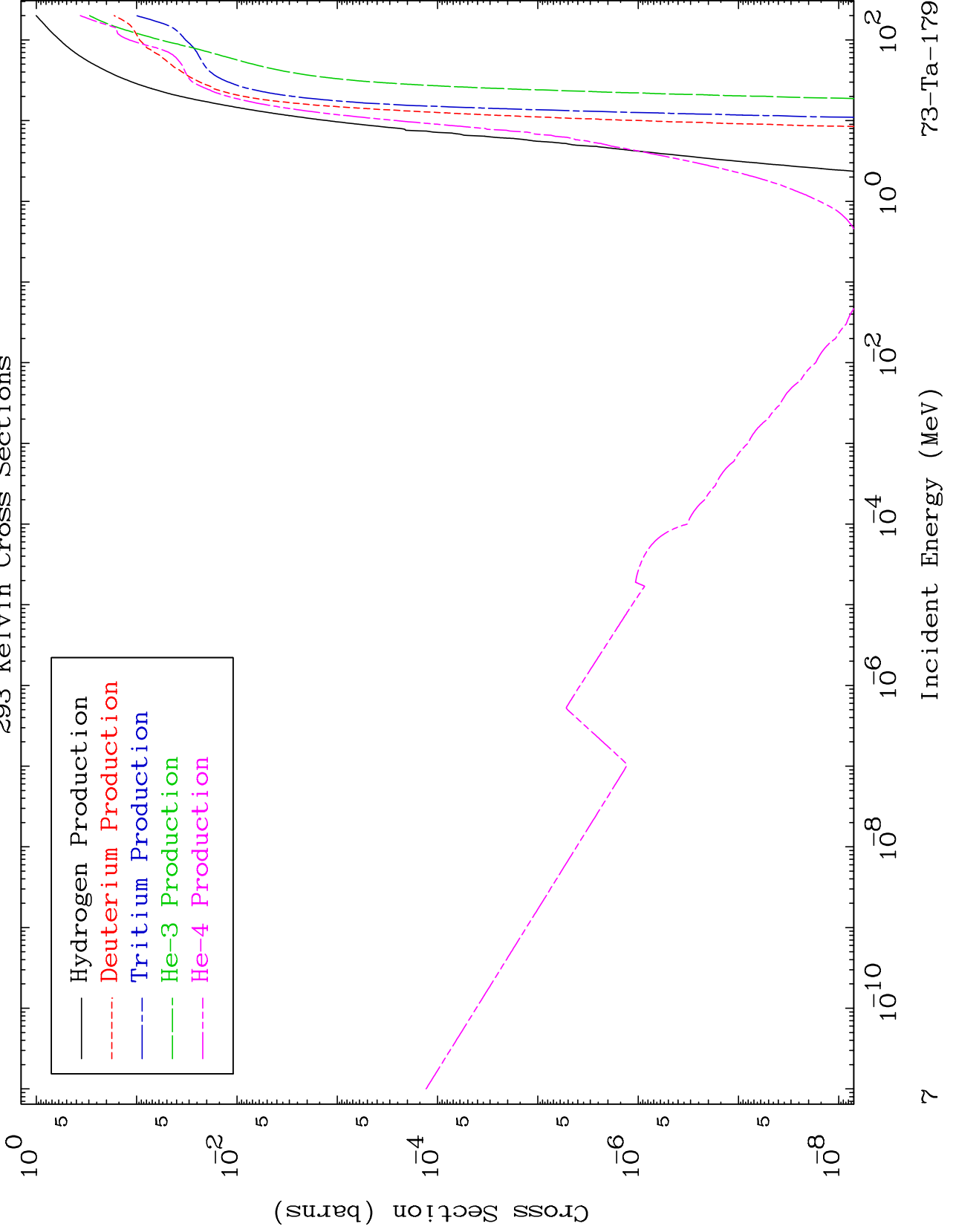
73-Ta-179

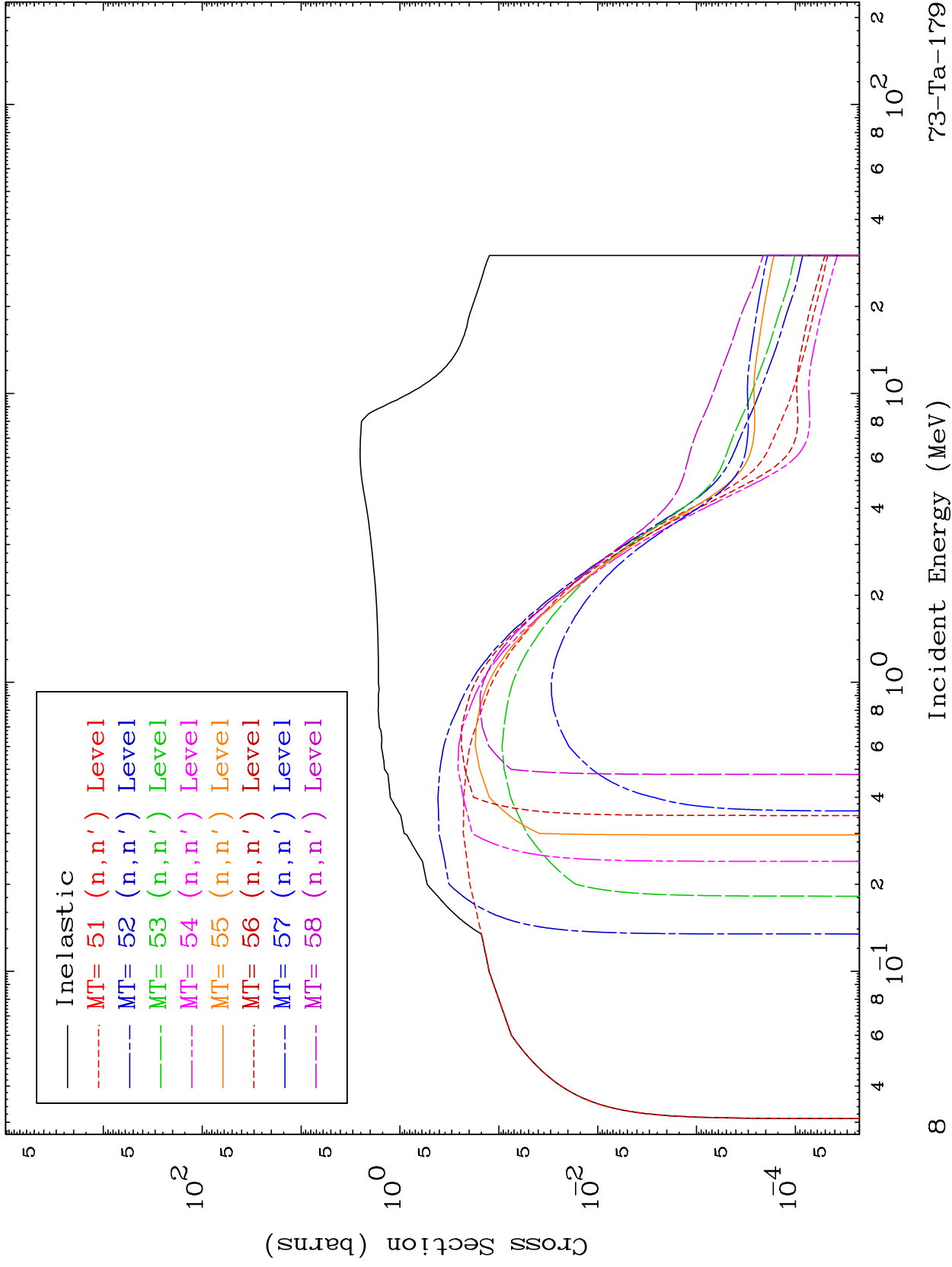


MAT 7322

Particle Production
293 Kelvin Cross Sections

73-Ta-179

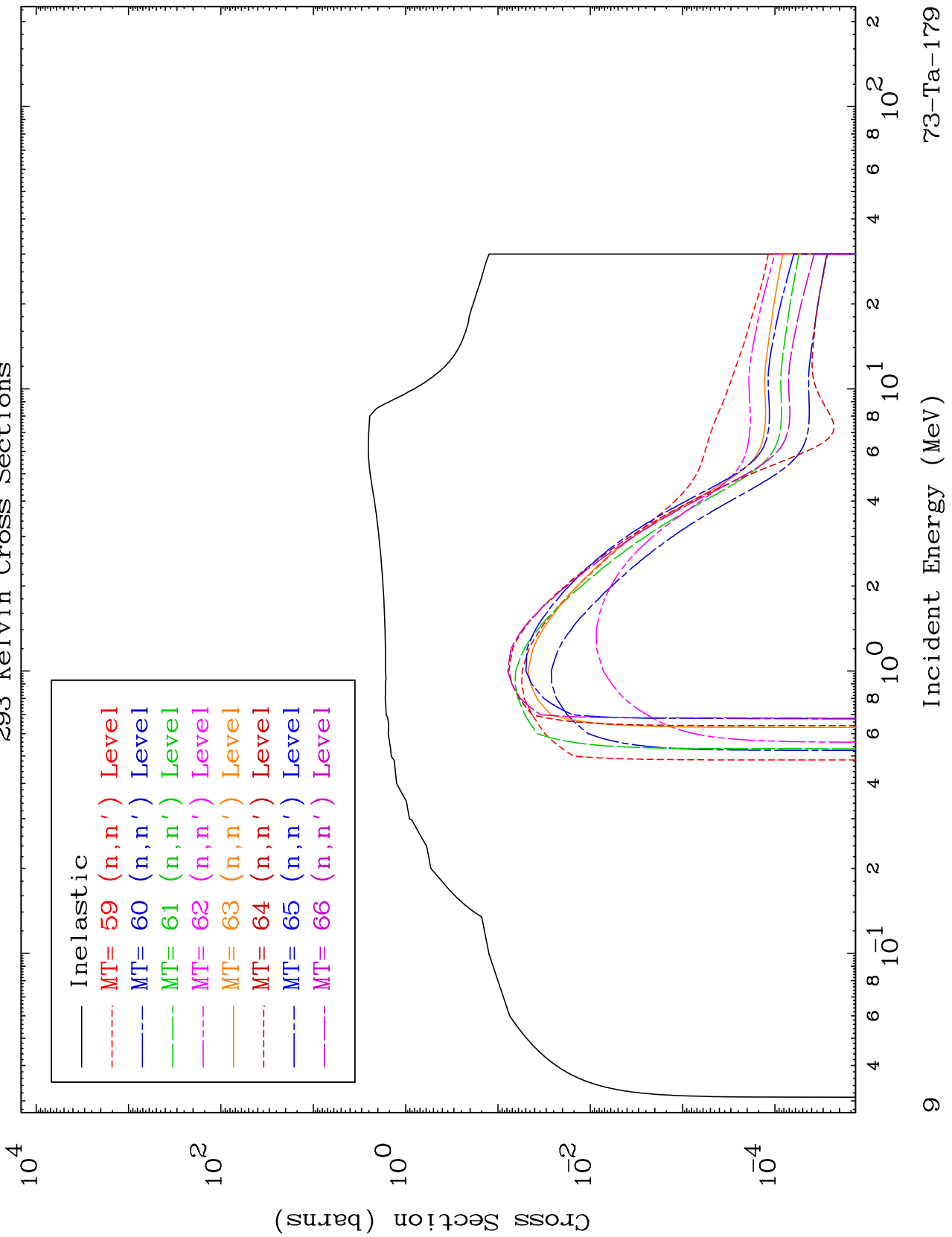




MAT 7322

(n,n') Levels
293 Kelvin Cross Sections

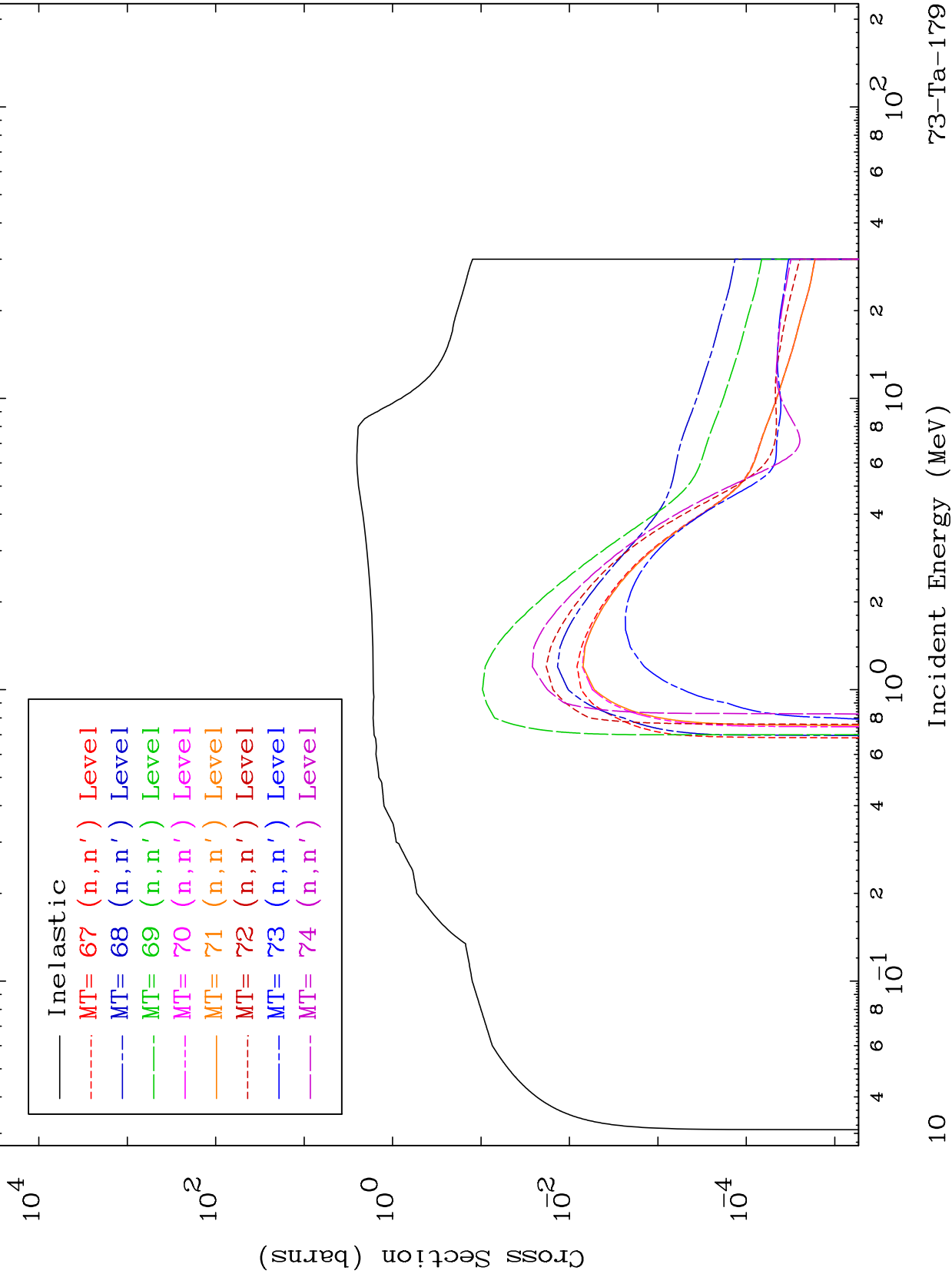
73-Ta-179



MAT 7322

(n,n') Levels
293 Kelvin Cross Sections

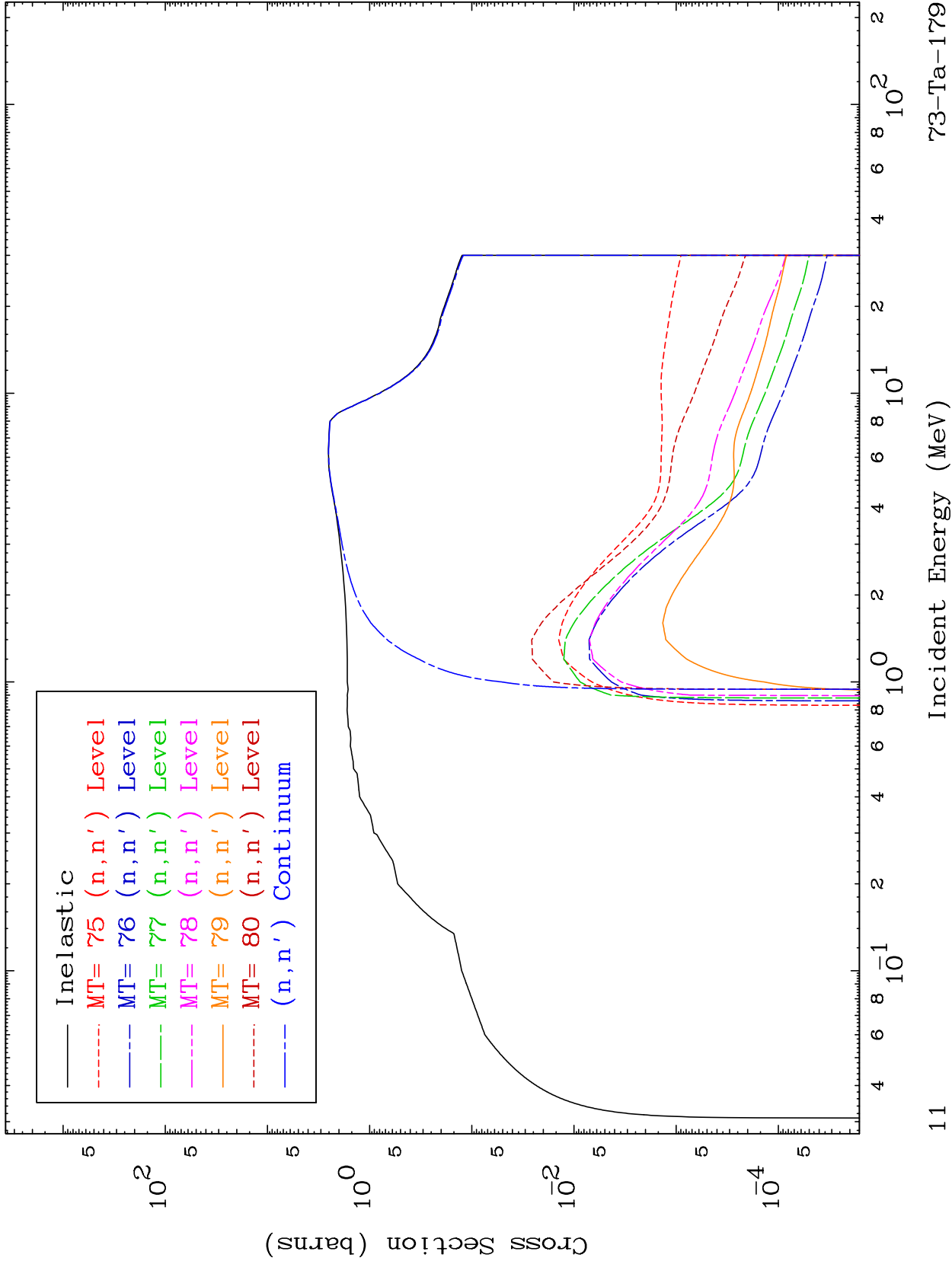
73-Ta-179



10

Incident Energy (MeV)

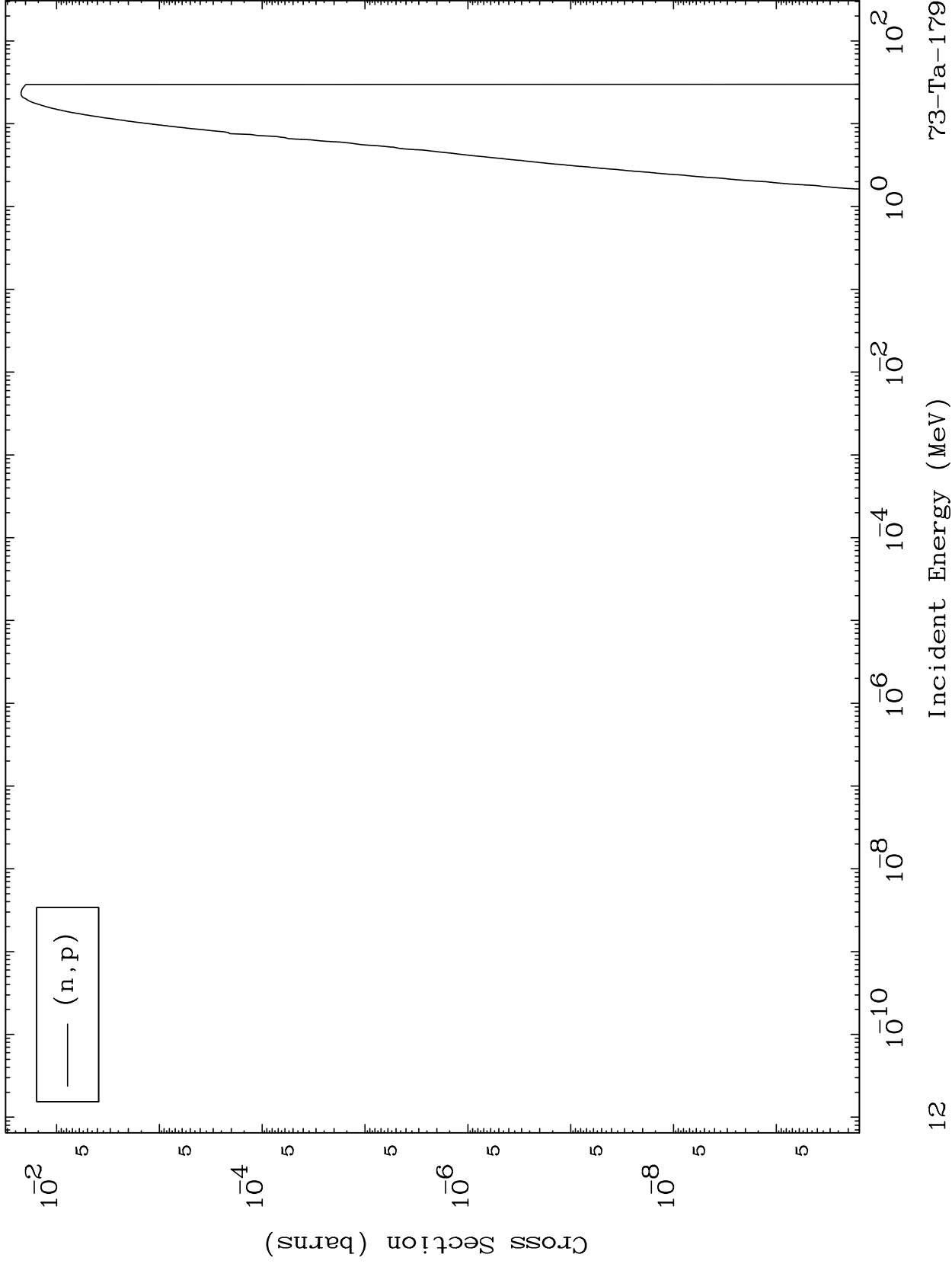
73-Ta-179



MAT 7322

(n,p) Levels
293 Kelvin Cross Sections

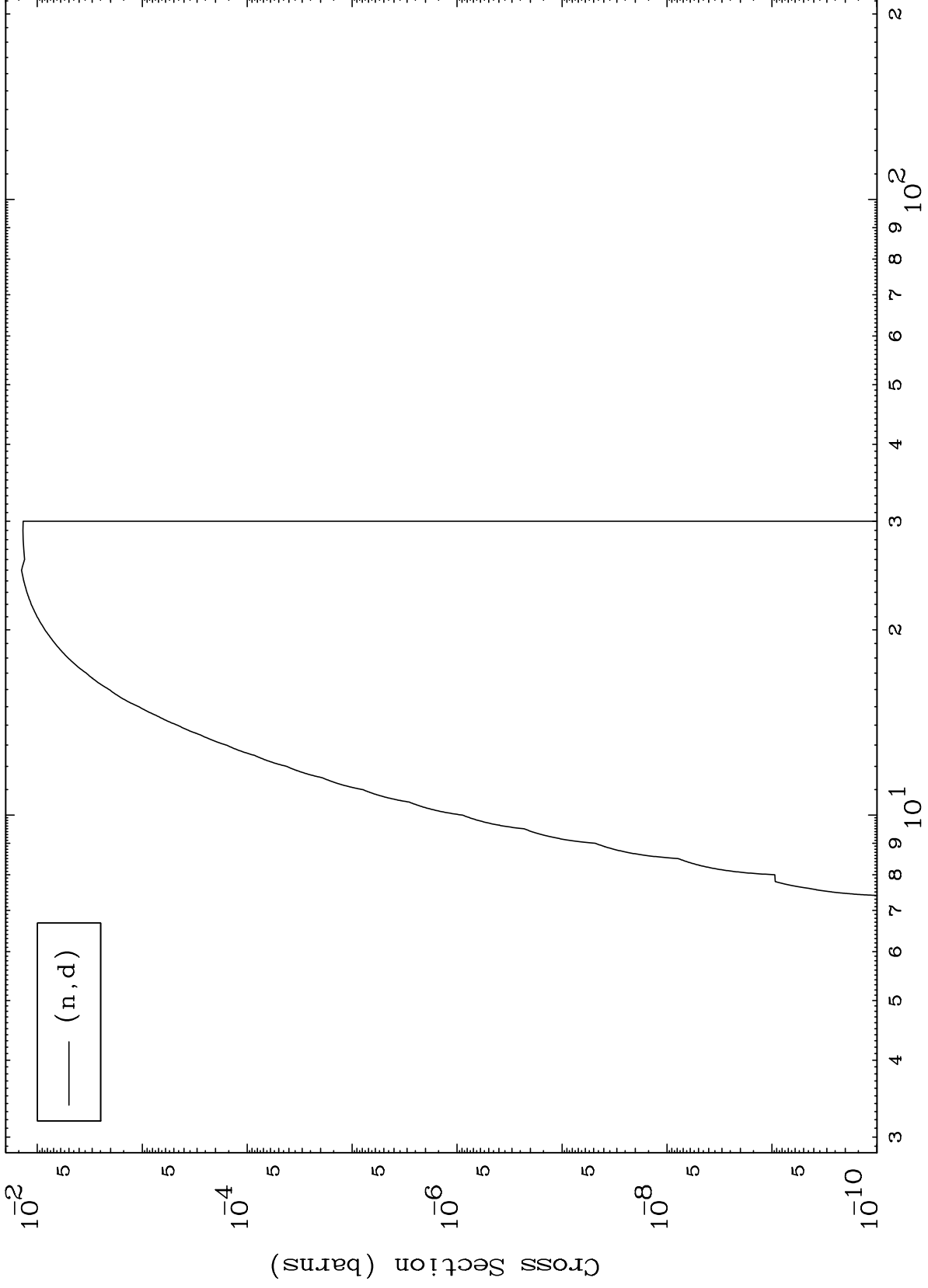
73-Ta-179



MAT 7322

(n,d) Levels
293 Kelvin Cross Sections

⁷³Ta-179



13

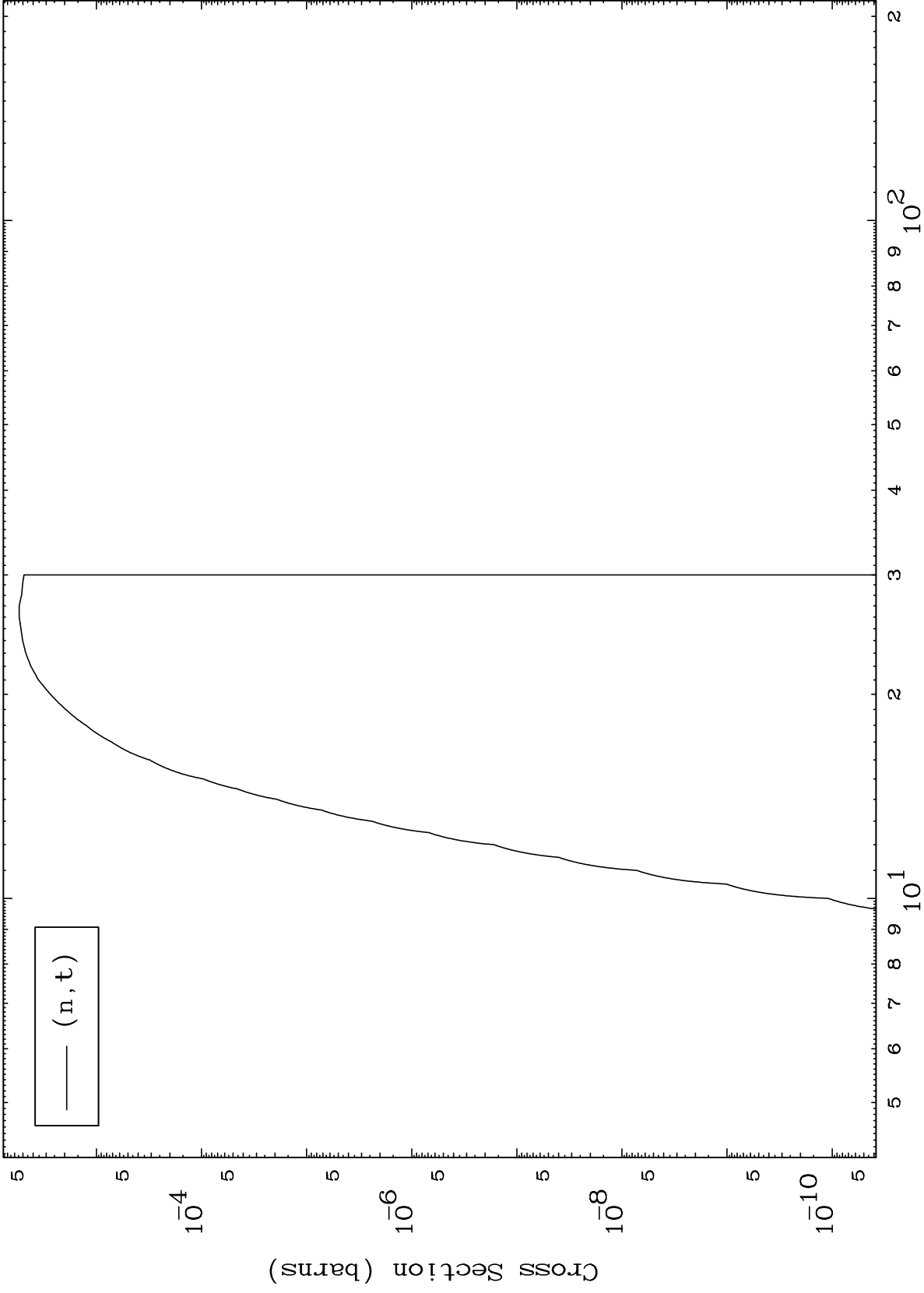
Incident Energy (MeV)

⁷³Ta-179

MAT 7322

(n,t) Levels
293 Kelvin Cross Sections

73-Ta-179



14

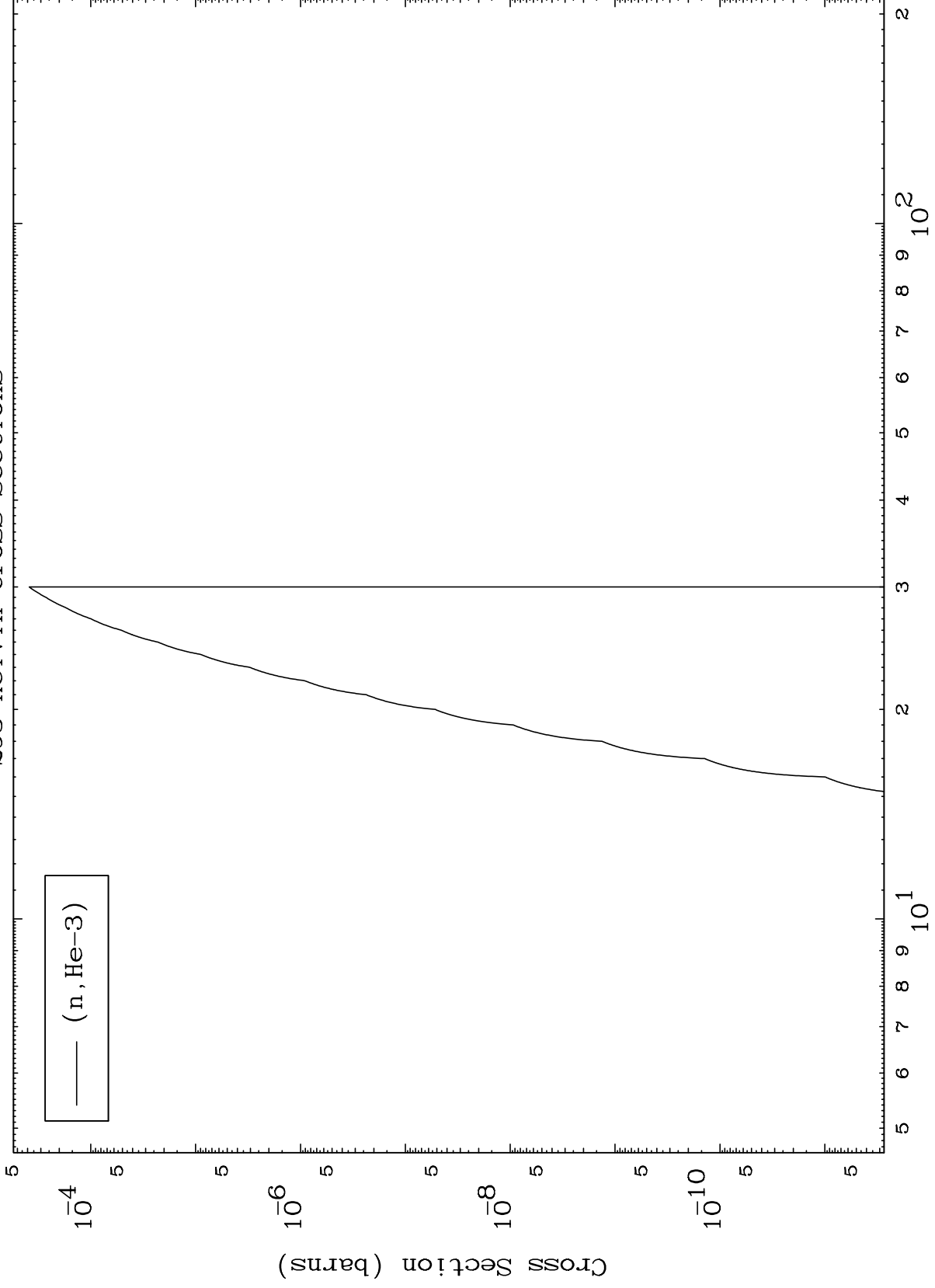
Incident Energy (MeV)

73-Ta-179

MAT 7322

(n,He3) Levels
293 Kelvin Cross Sections

73-Ta-179



15

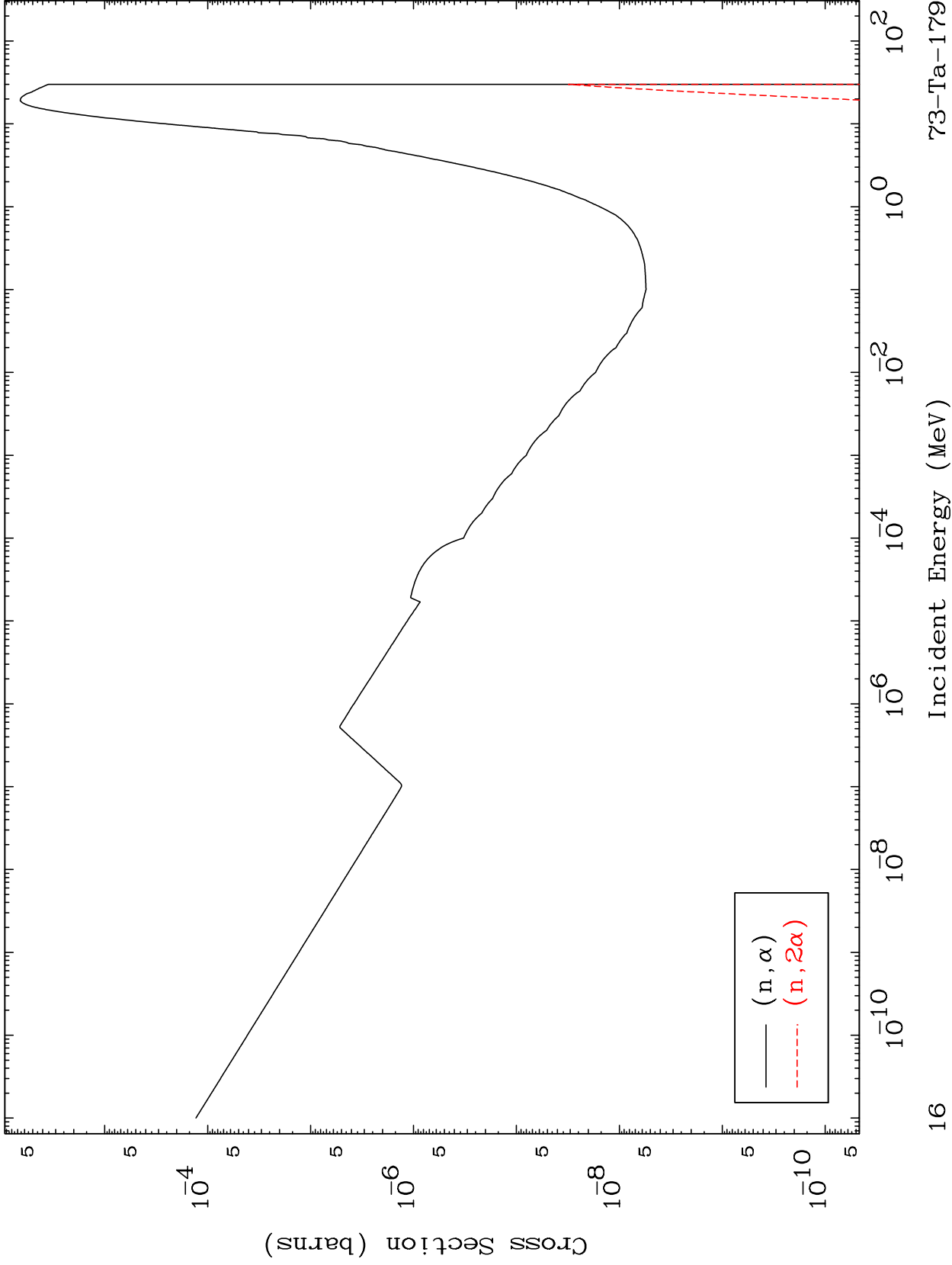
Incident Energy (MeV)

73-Ta-179

MAT 7322

(n,α) Levels
293 Kelvin Cross Sections

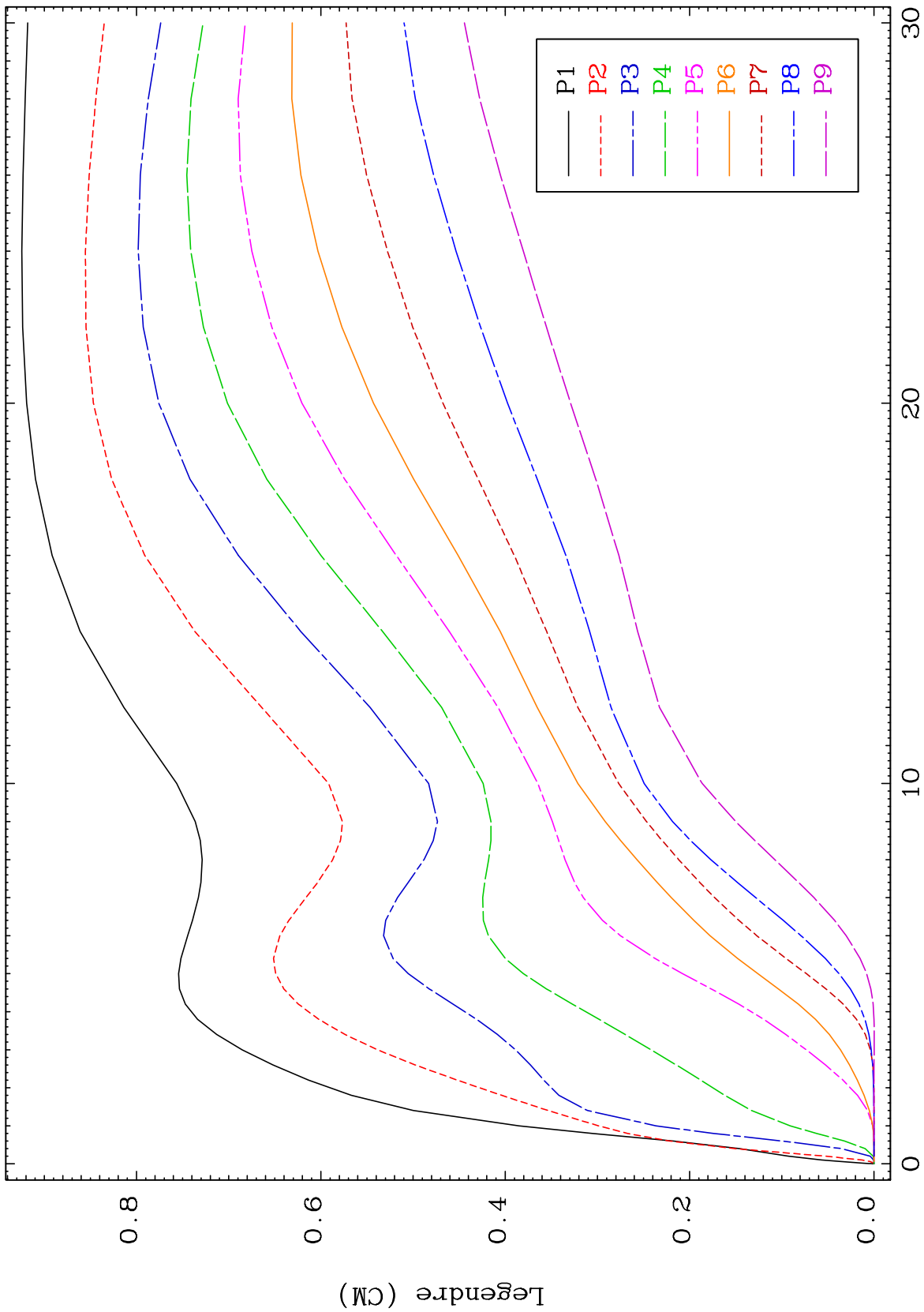
73-Ta-179



MAT 7322

Elastic Legendre Coefficients

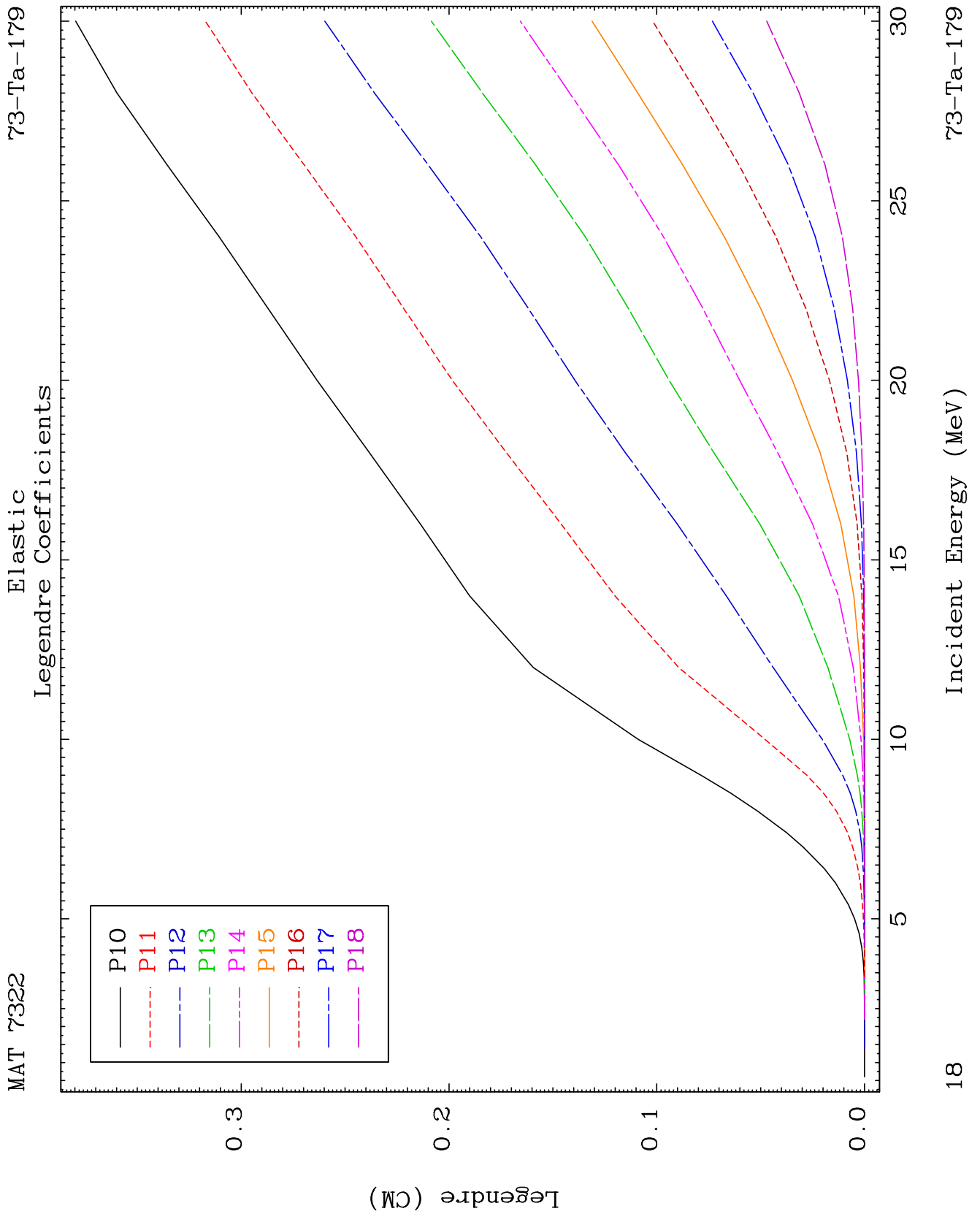
⁷³Ta-¹⁷⁹



17

Incident Energy (MeV)

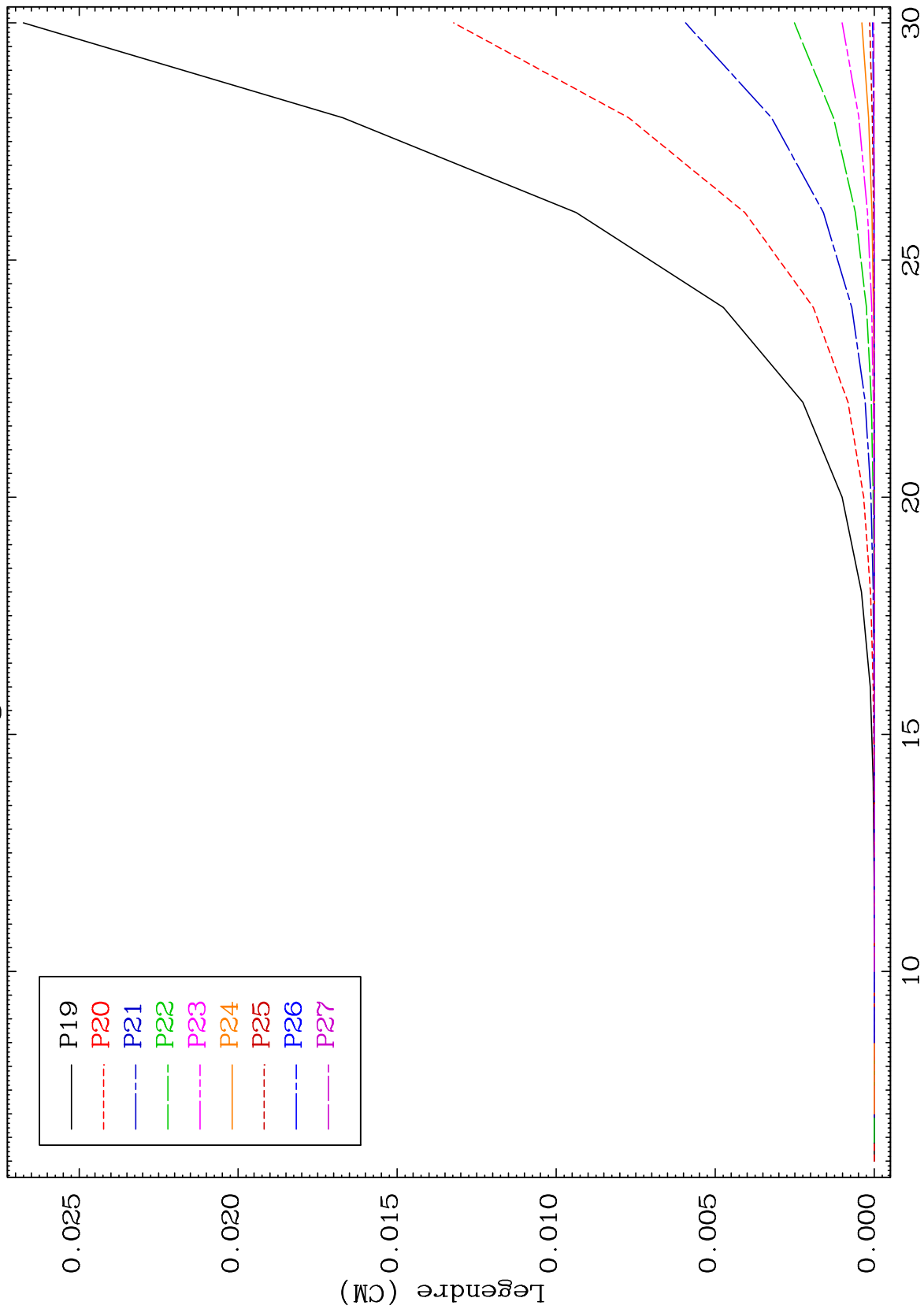
⁷³Ta-¹⁷⁹



MAT 7322

Elastic Legendre Coefficients

73-Ta-179



19

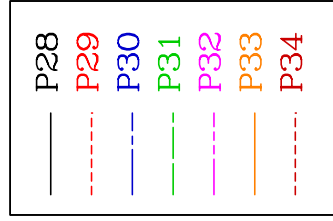
Incident Energy (MeV)

73-Ta-179

MAT 7322

Elastic Legendre Coefficients

⁷³Ta-179



$\times 10^{-6}$

Legendre (CM)

4

2

0

15

20

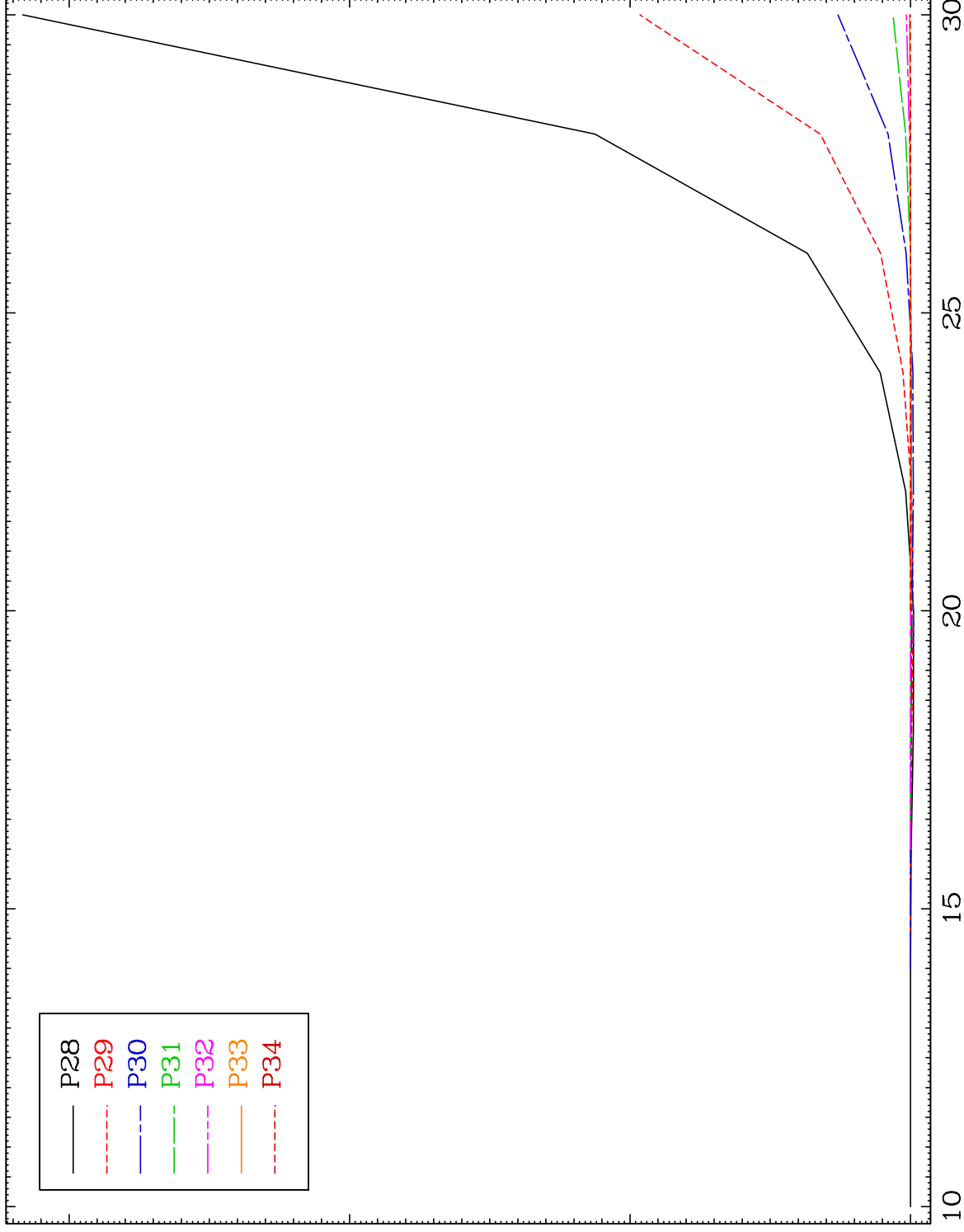
25

30

20

Incident Energy (MeV)

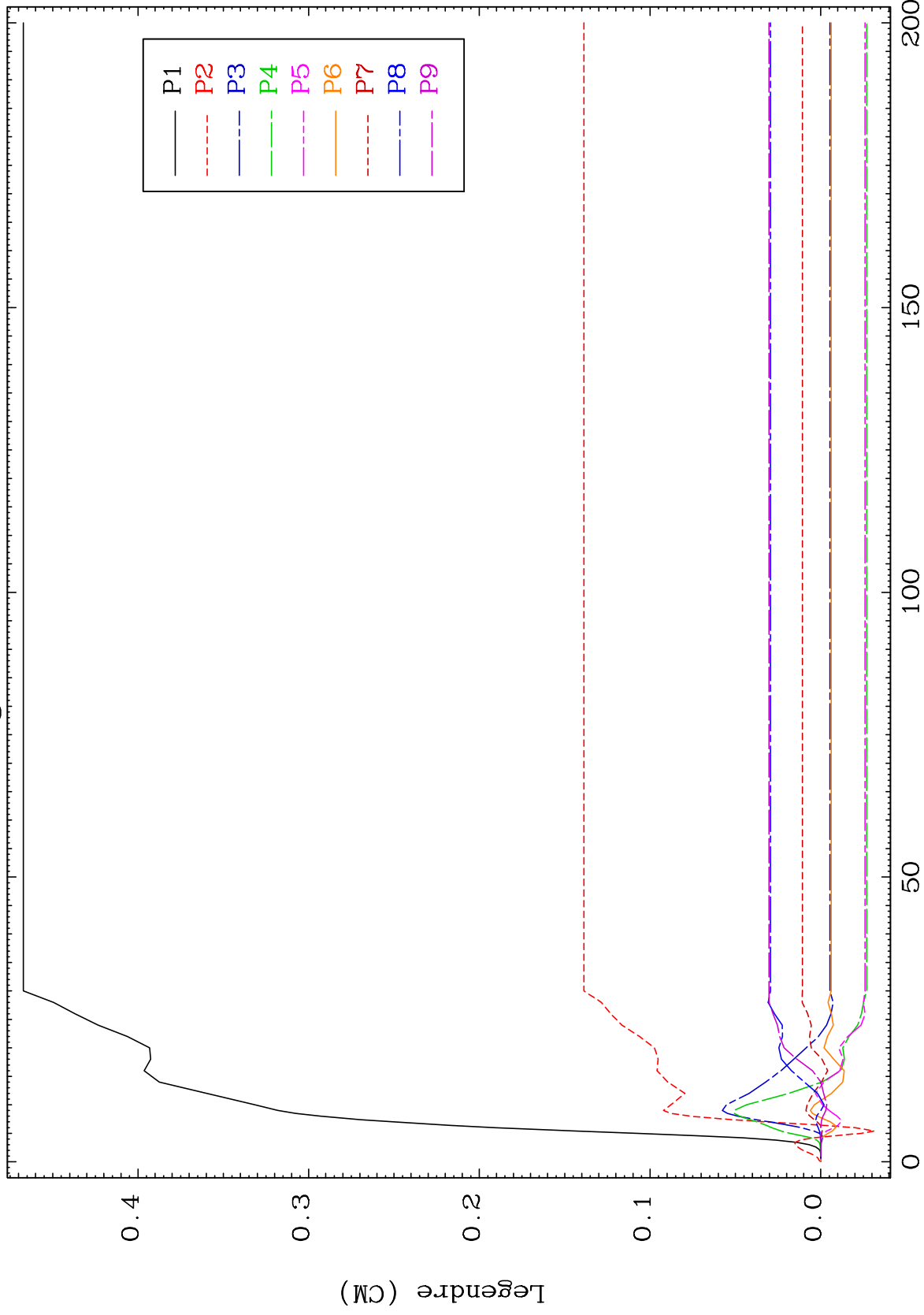
⁷³Ta-179



MAT 7322

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

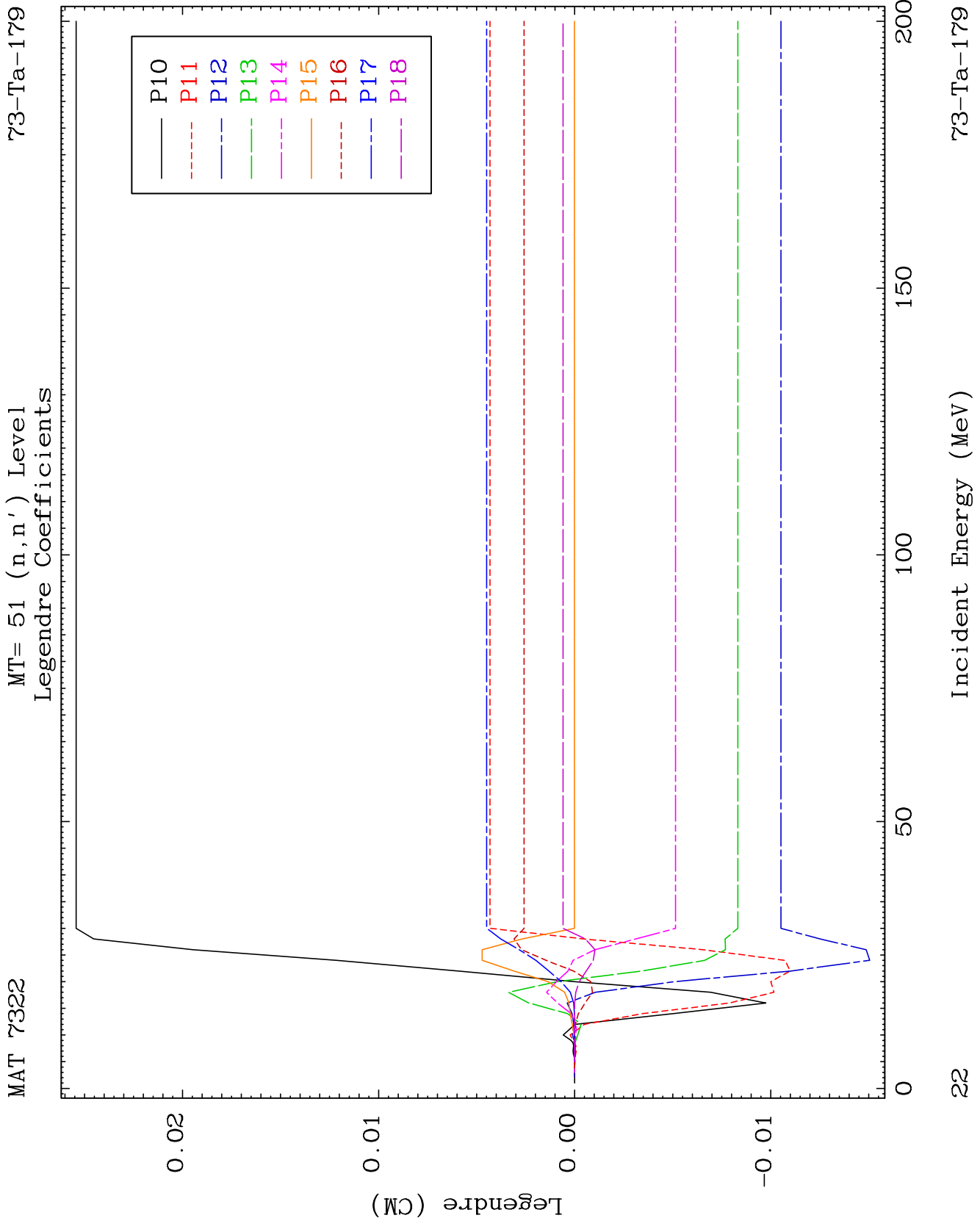
73-Ta-179



21

Incident Energy (MeV)

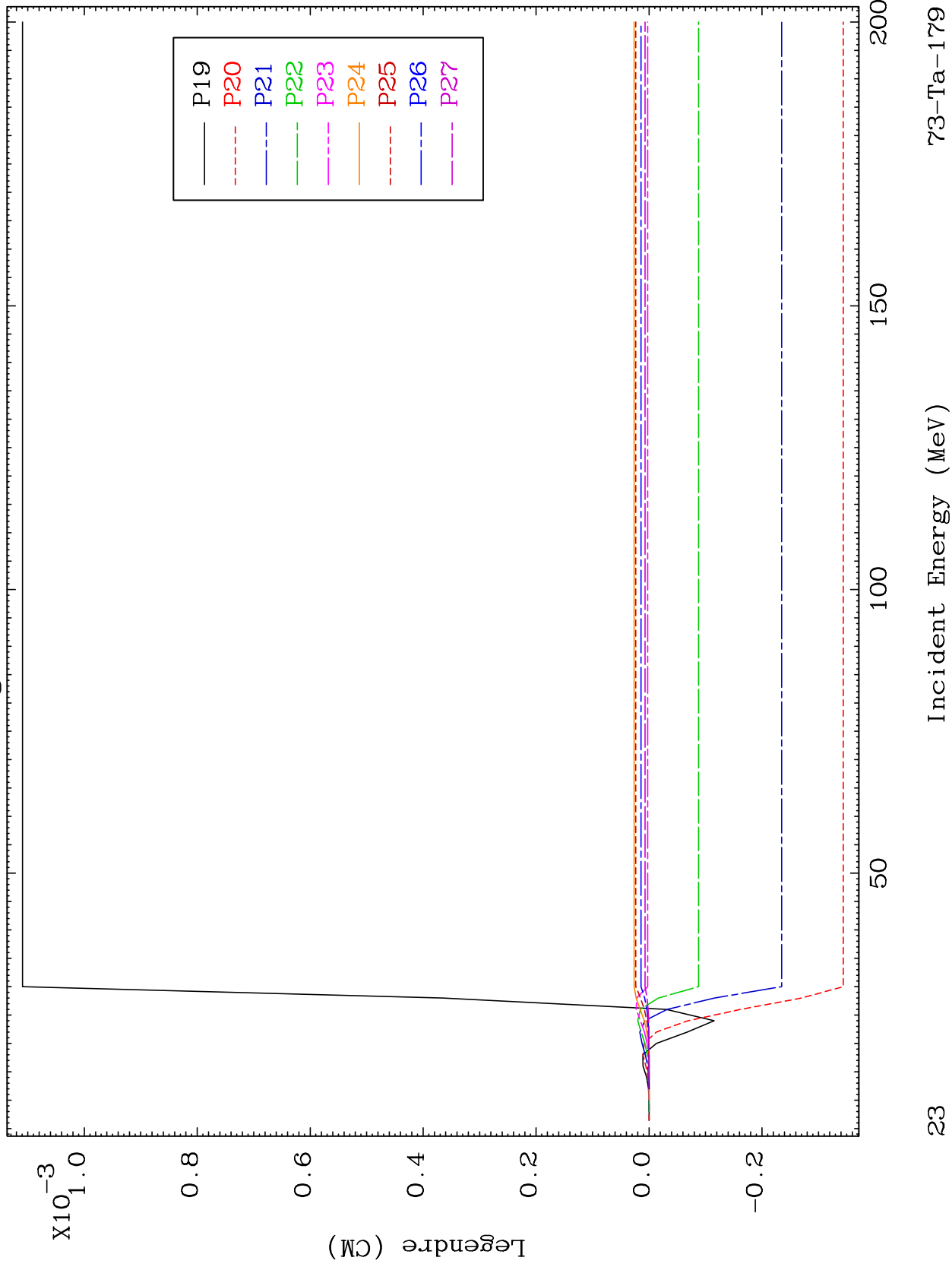
73-Ta-179



MAT 7322

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

73-Ta-179



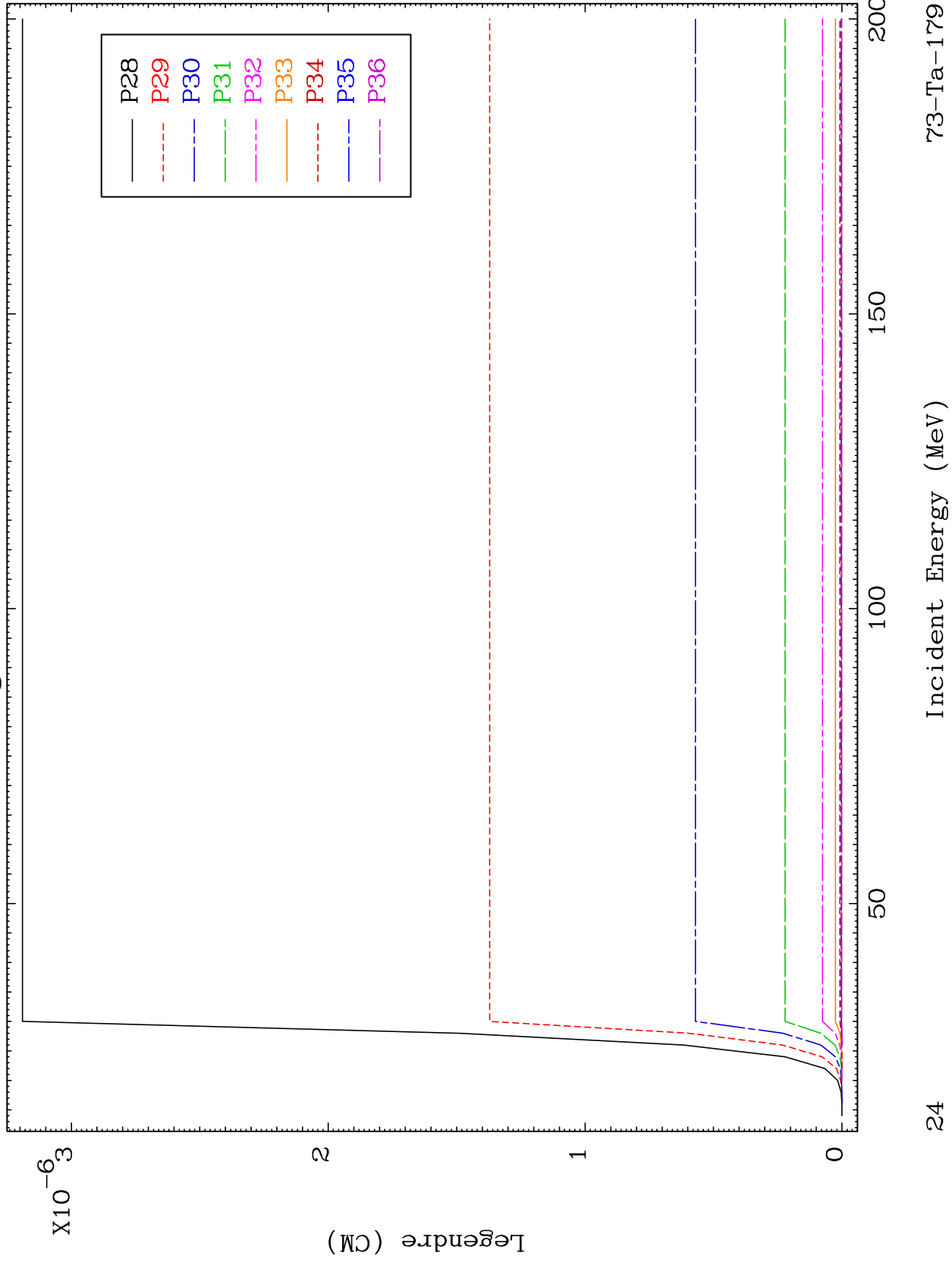
23

73-Ta-179

MAT 7322

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

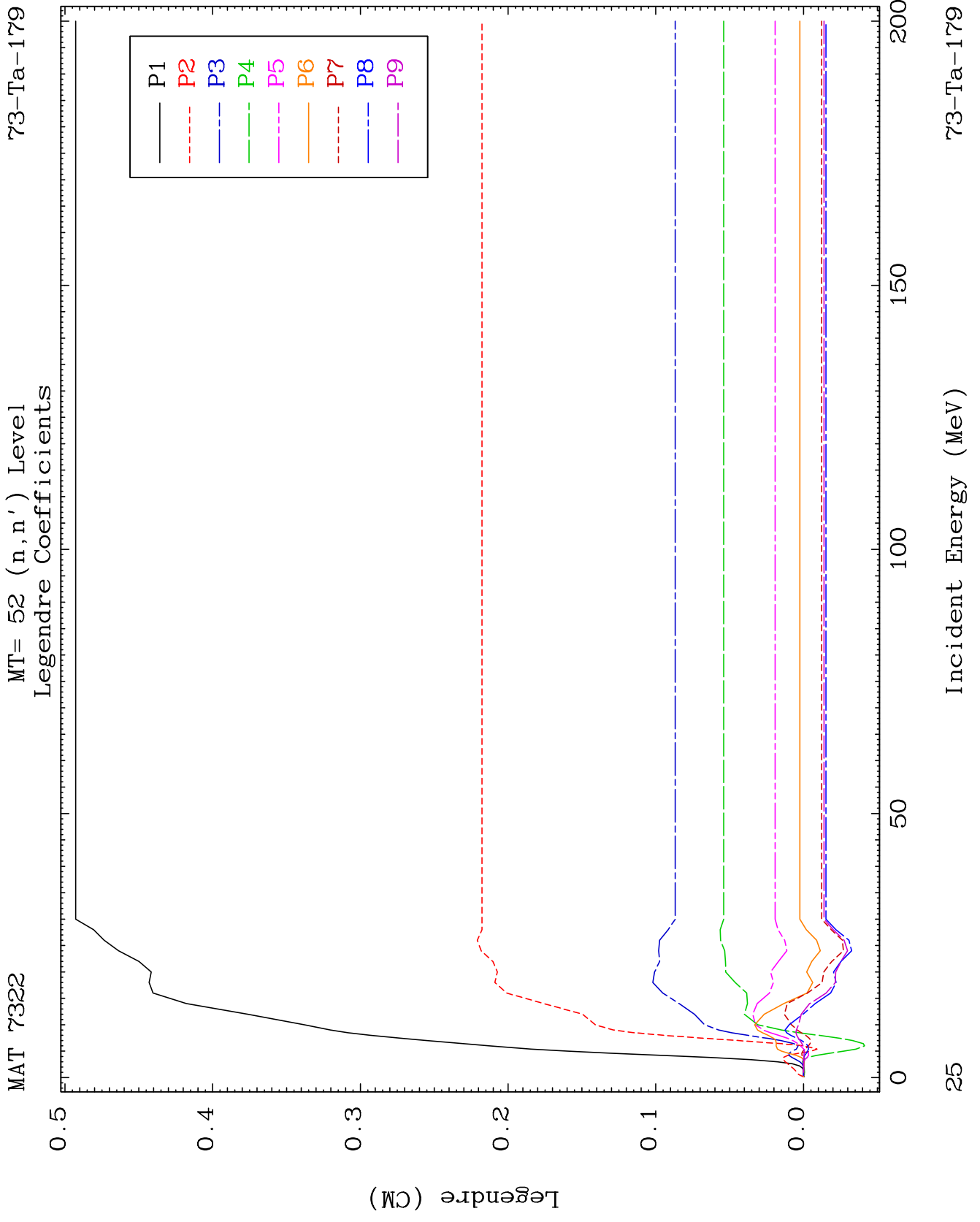
73-Ta-179



24

Incident Energy (MeV)

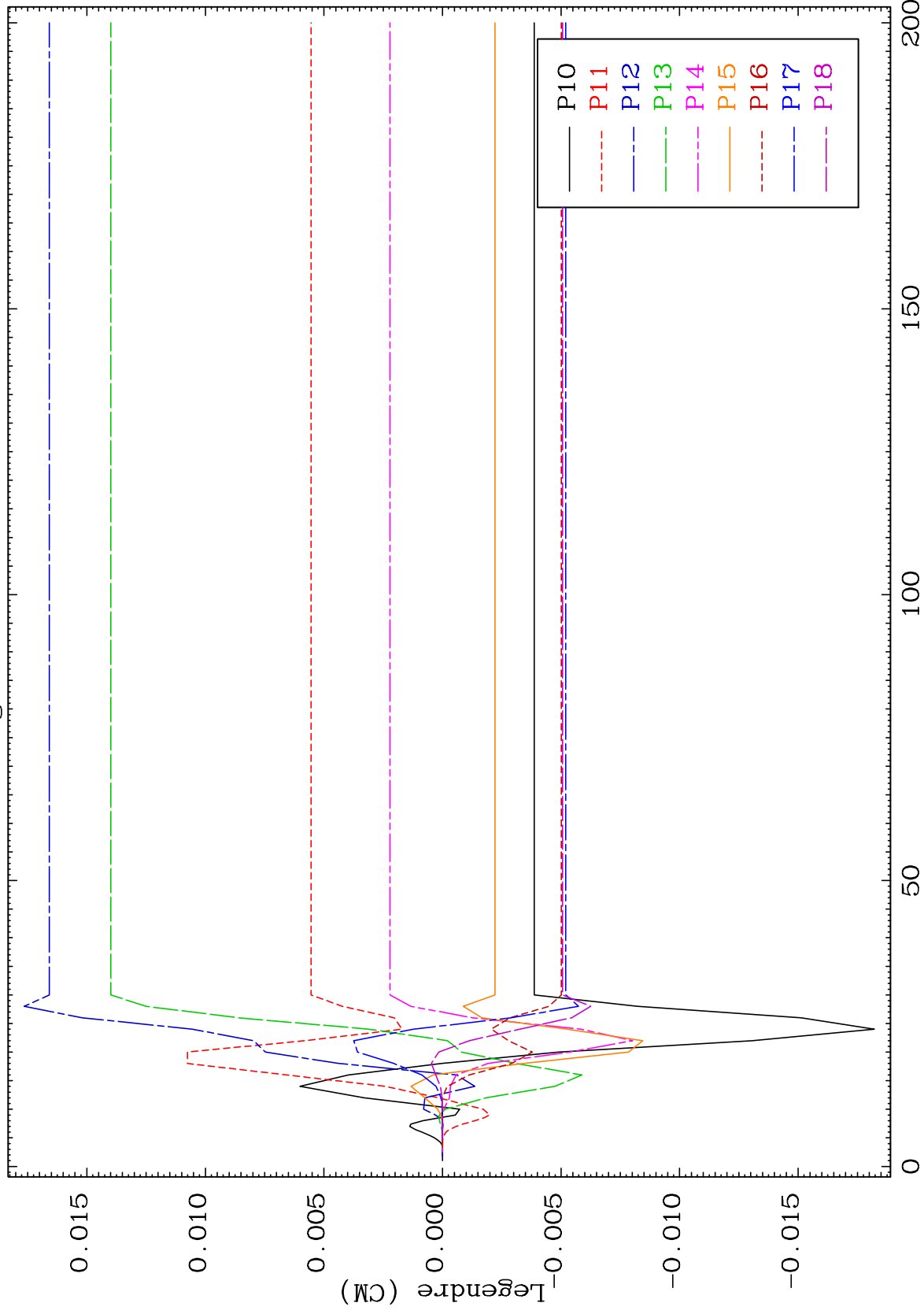
73-Ta-179



MAT 7322

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

73-Ta-179



26

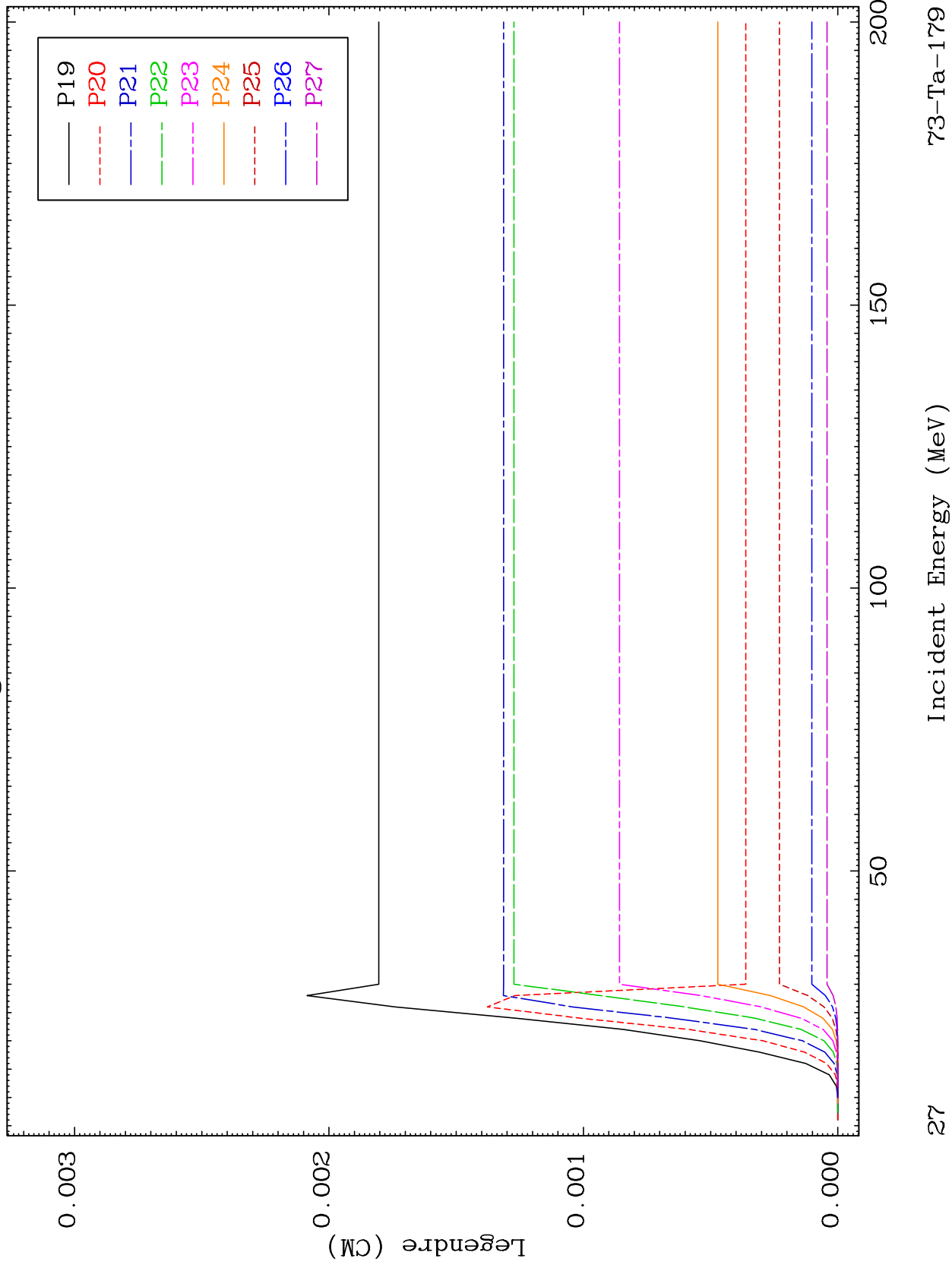
Incident Energy (MeV)

73-Ta-179

MAT 7322

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

73-Ta-179



27

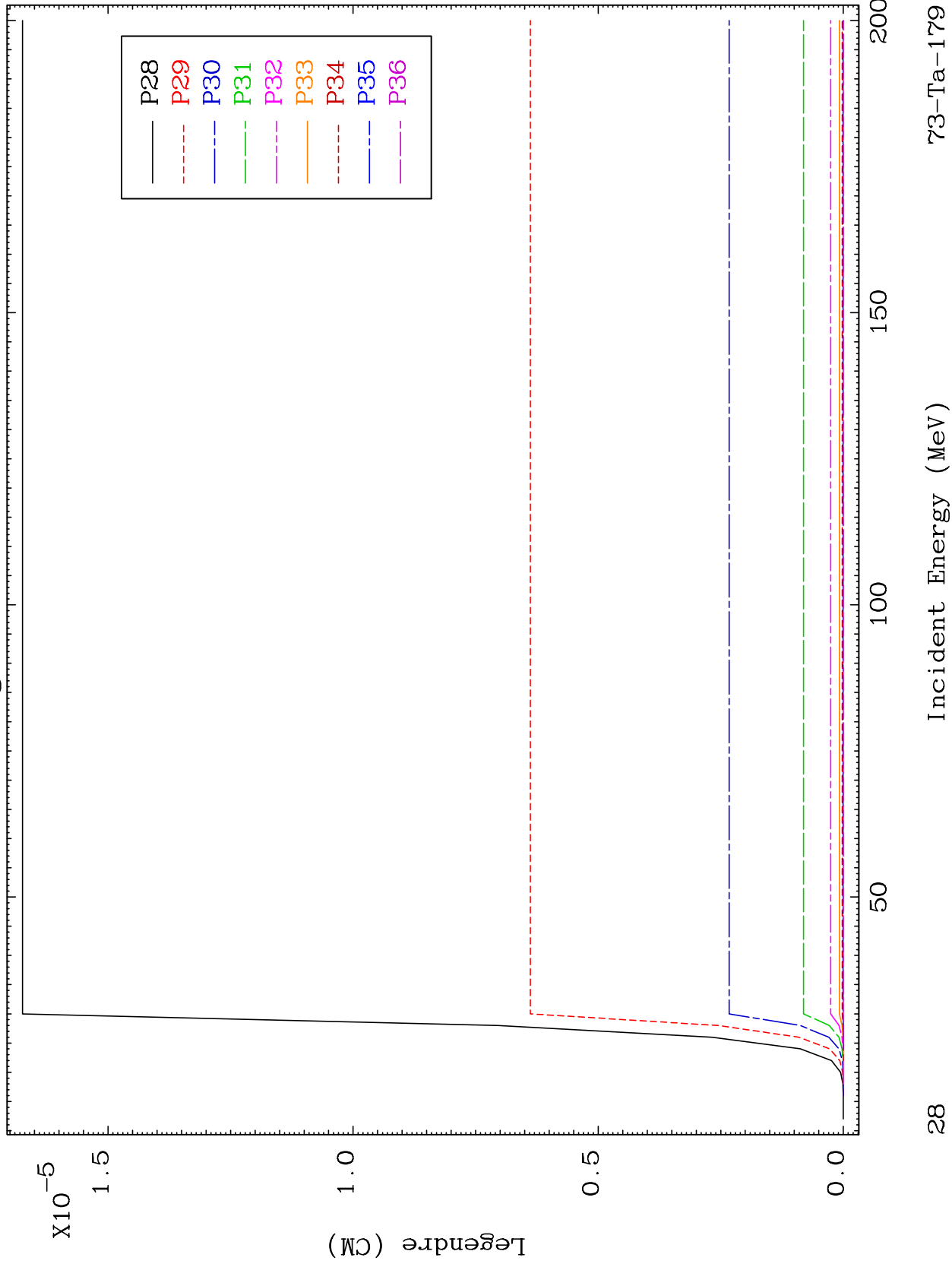
Incident Energy (MeV)

73-Ta-179

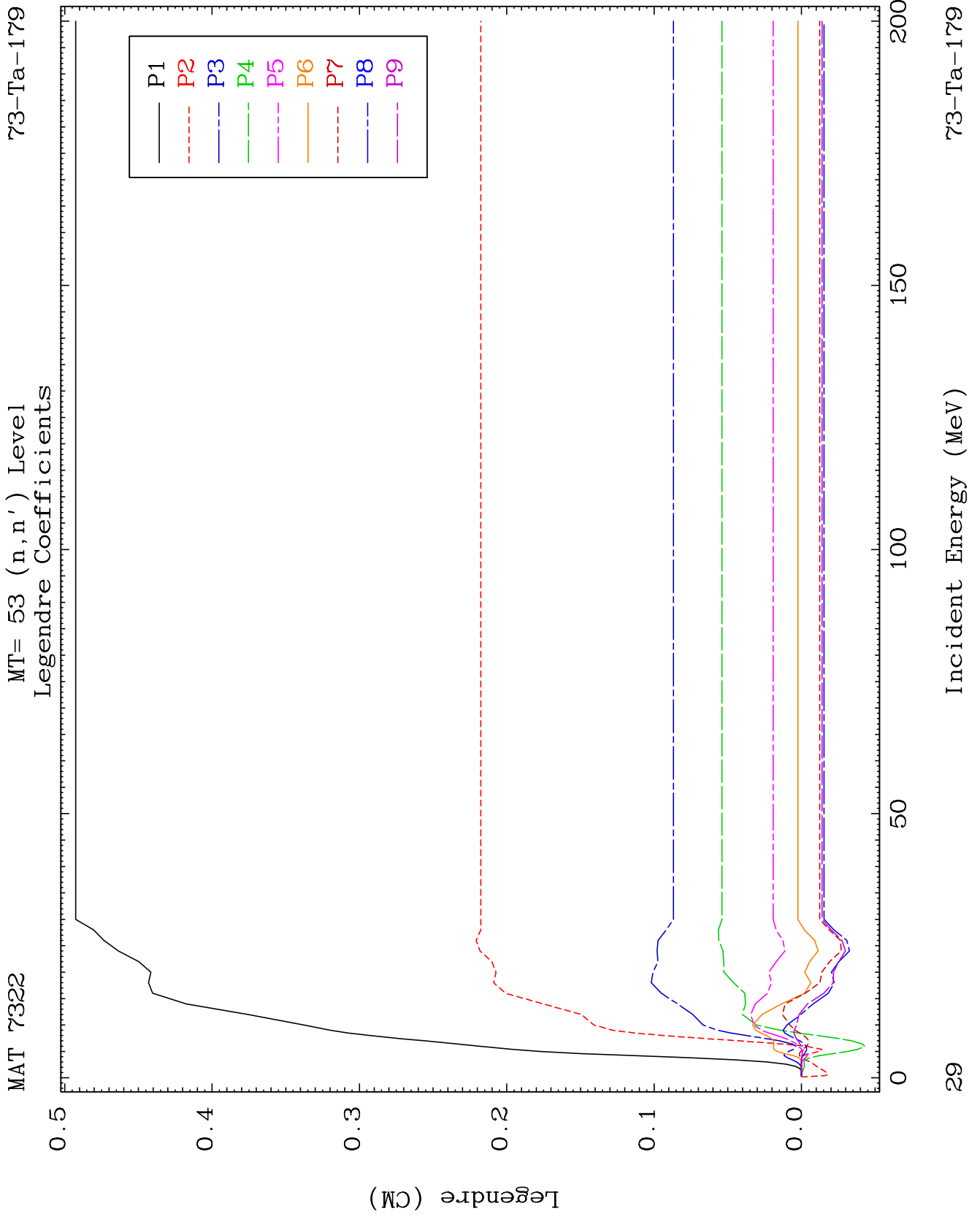
MAT 7322

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

73-Ta-179



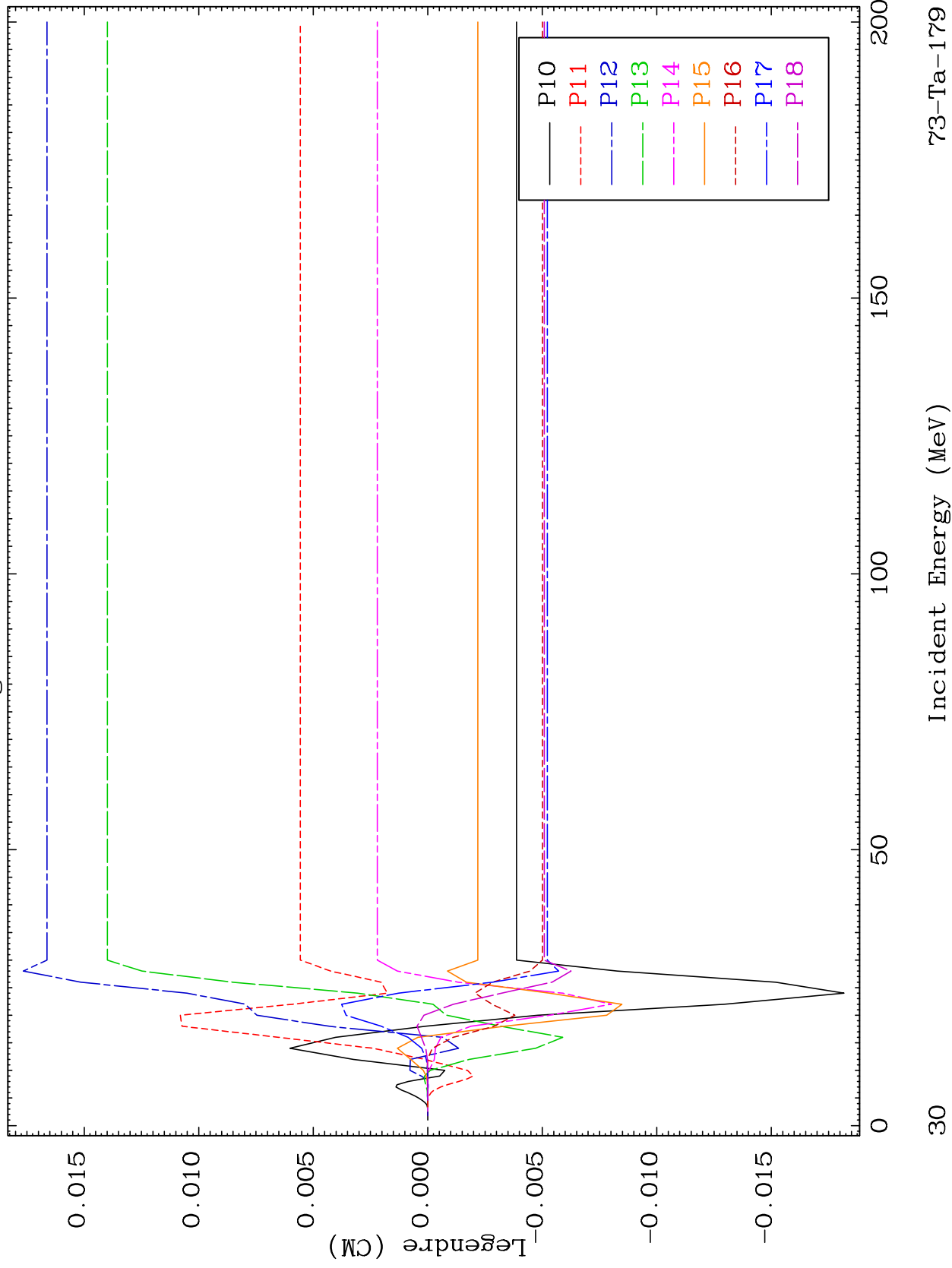
28



MAT 7322

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

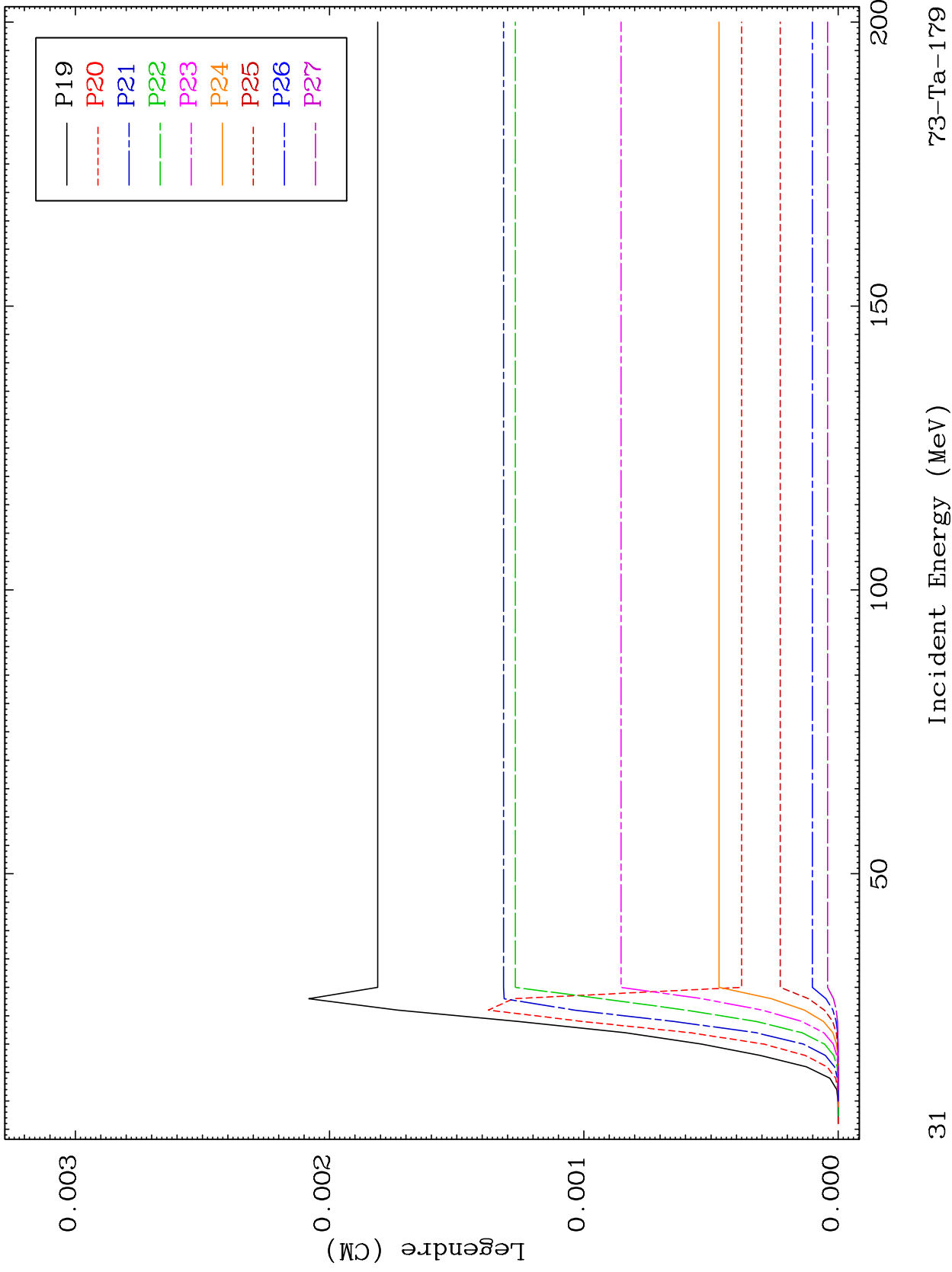
73-Ta-179



73-Ta-179

Incident Energy (MeV)

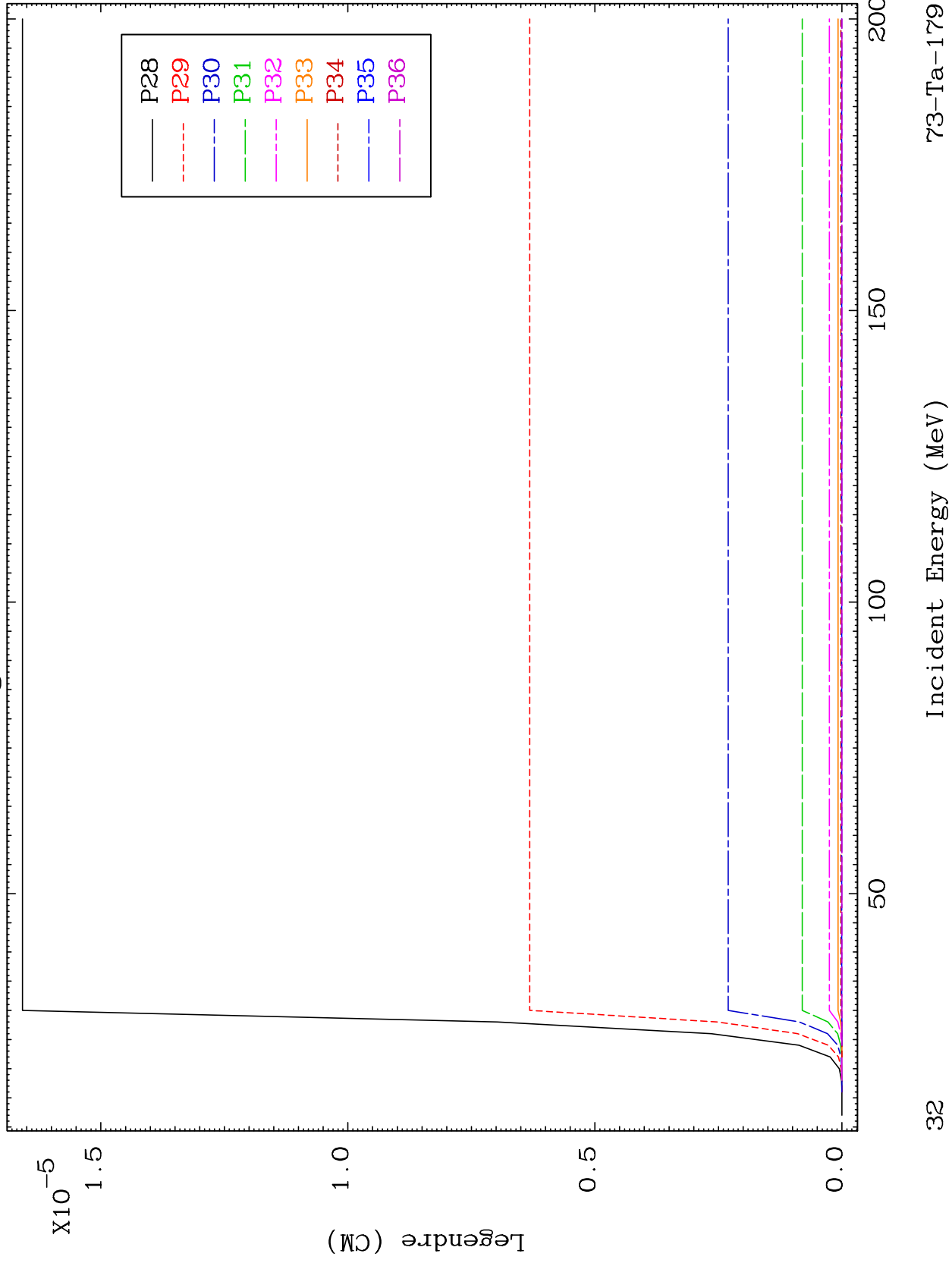
30



MAT 7322

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

73-Ta-179

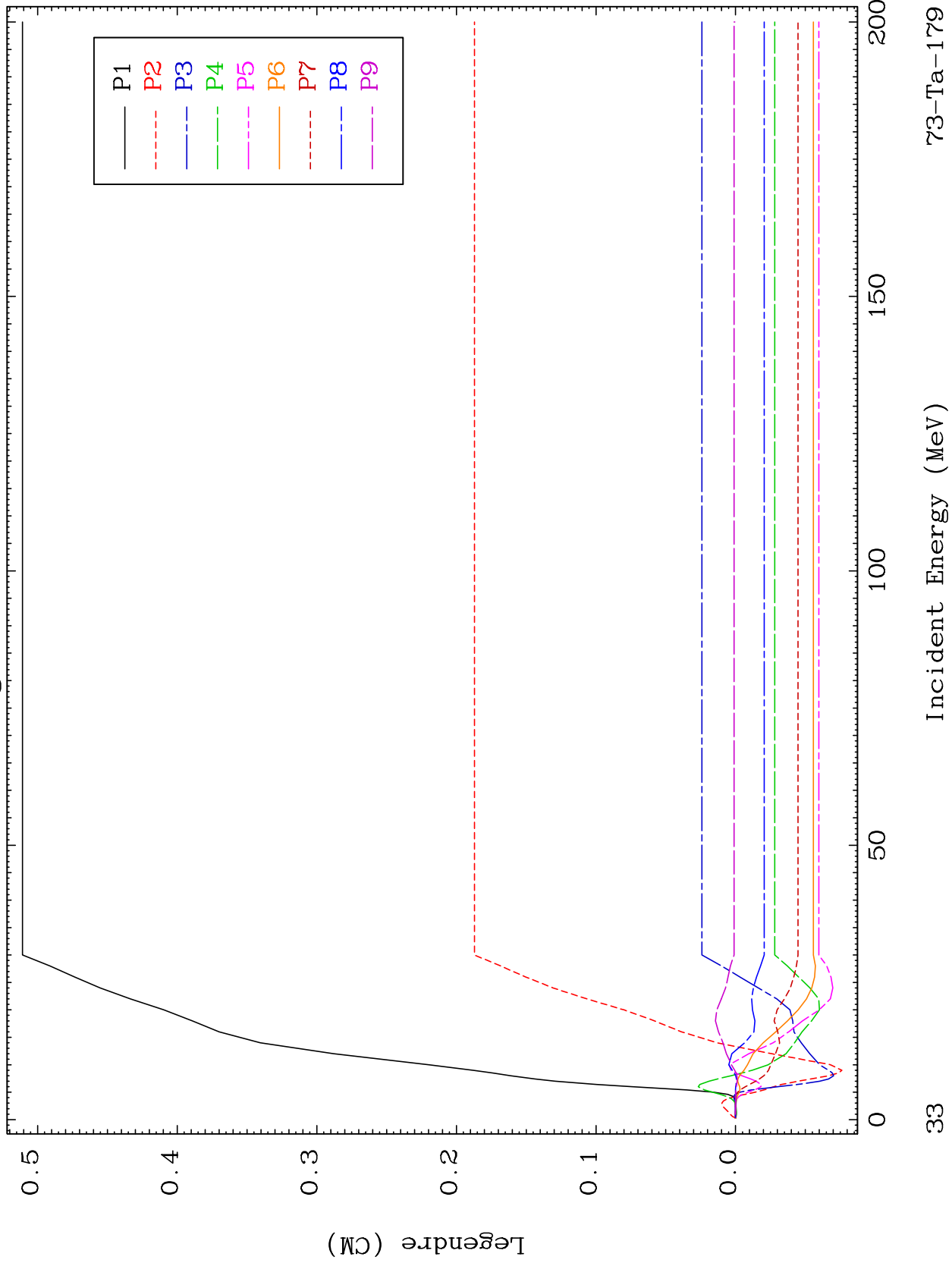


32

MAT 7322

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

73-Ta-179



33

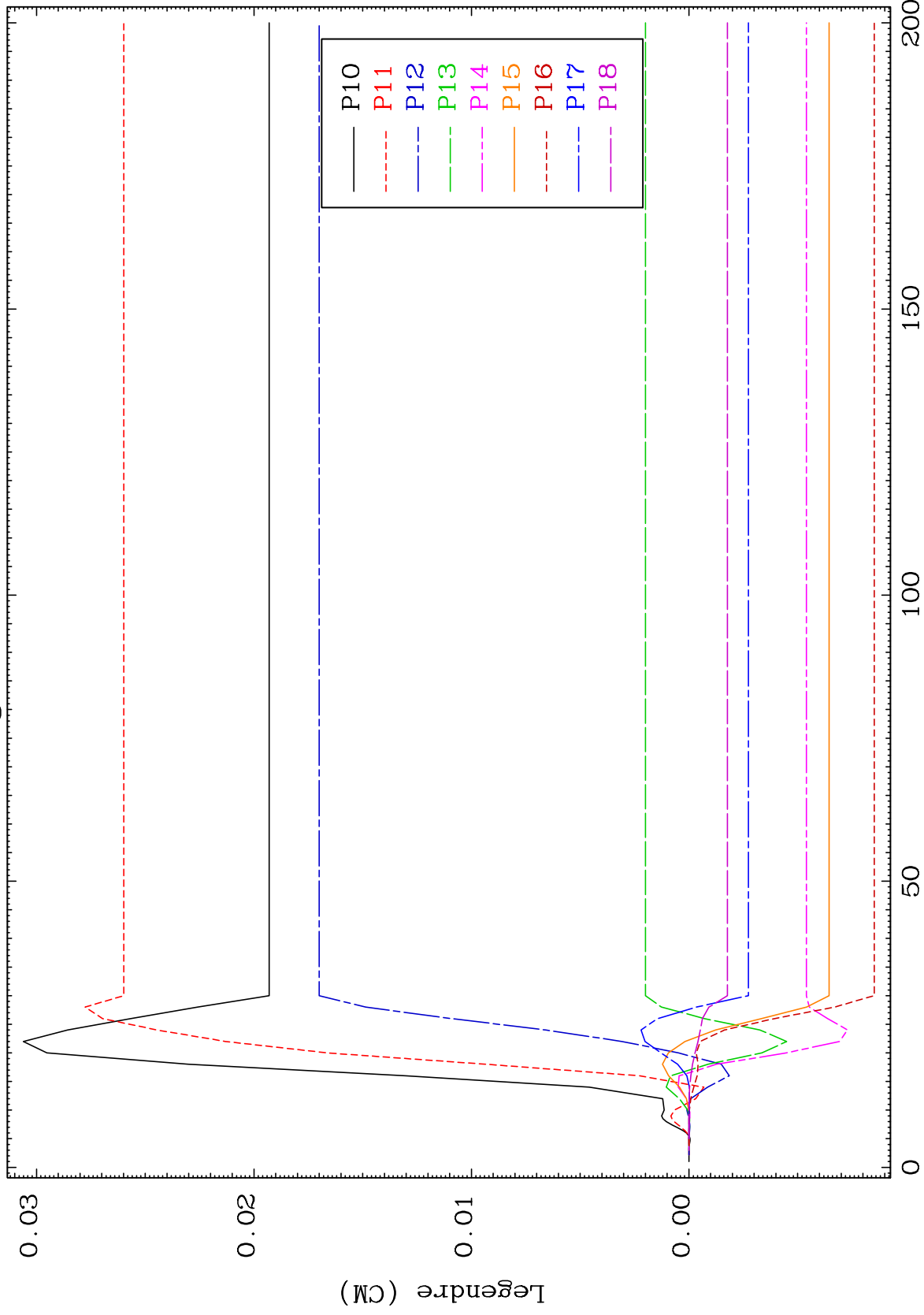
Incident Energy (MeV)

73-Ta-179

MAT 7322

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

73-Ta-179



34

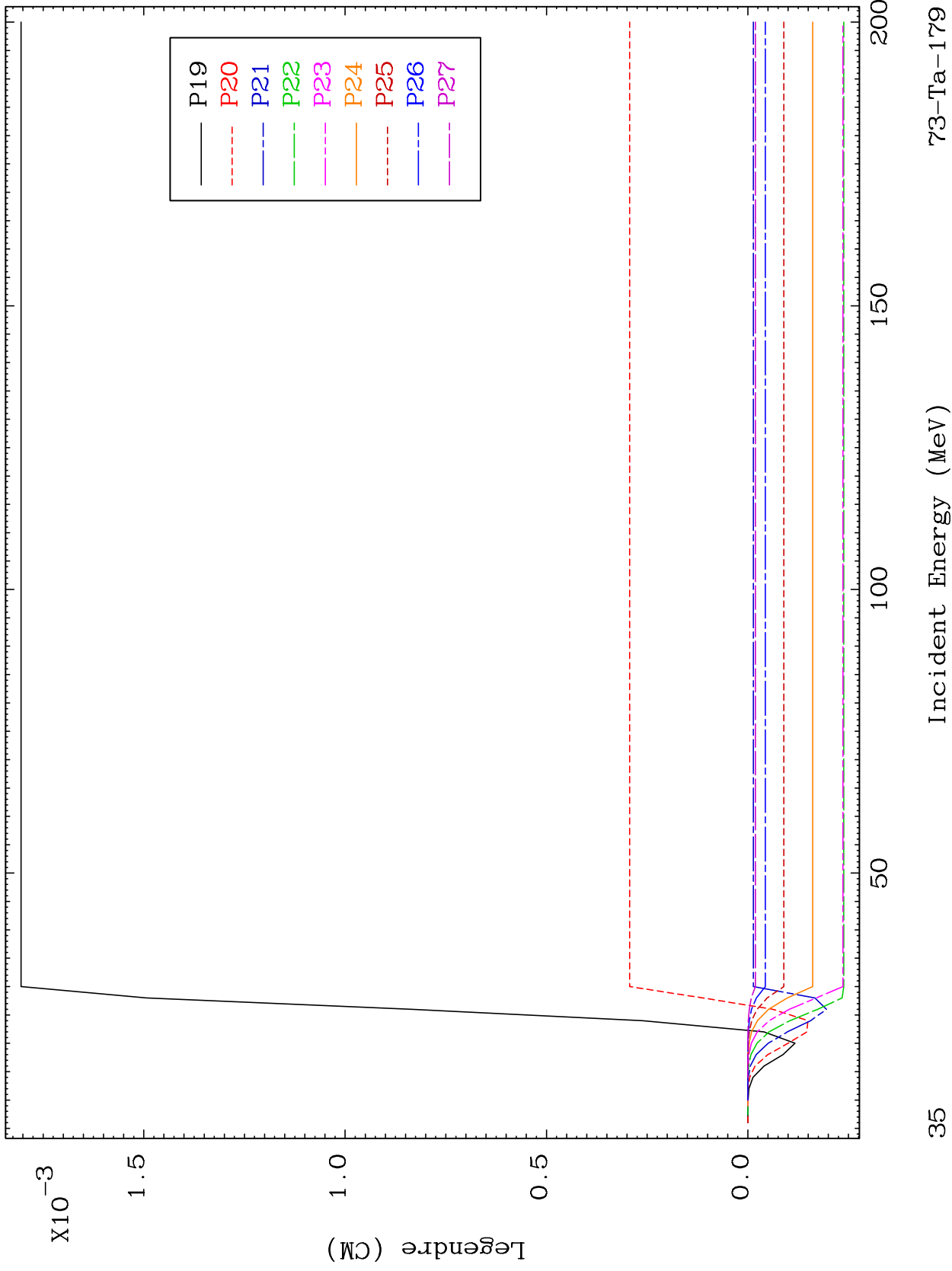
Incident Energy (MeV)

73-Ta-179

MAT 7322

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

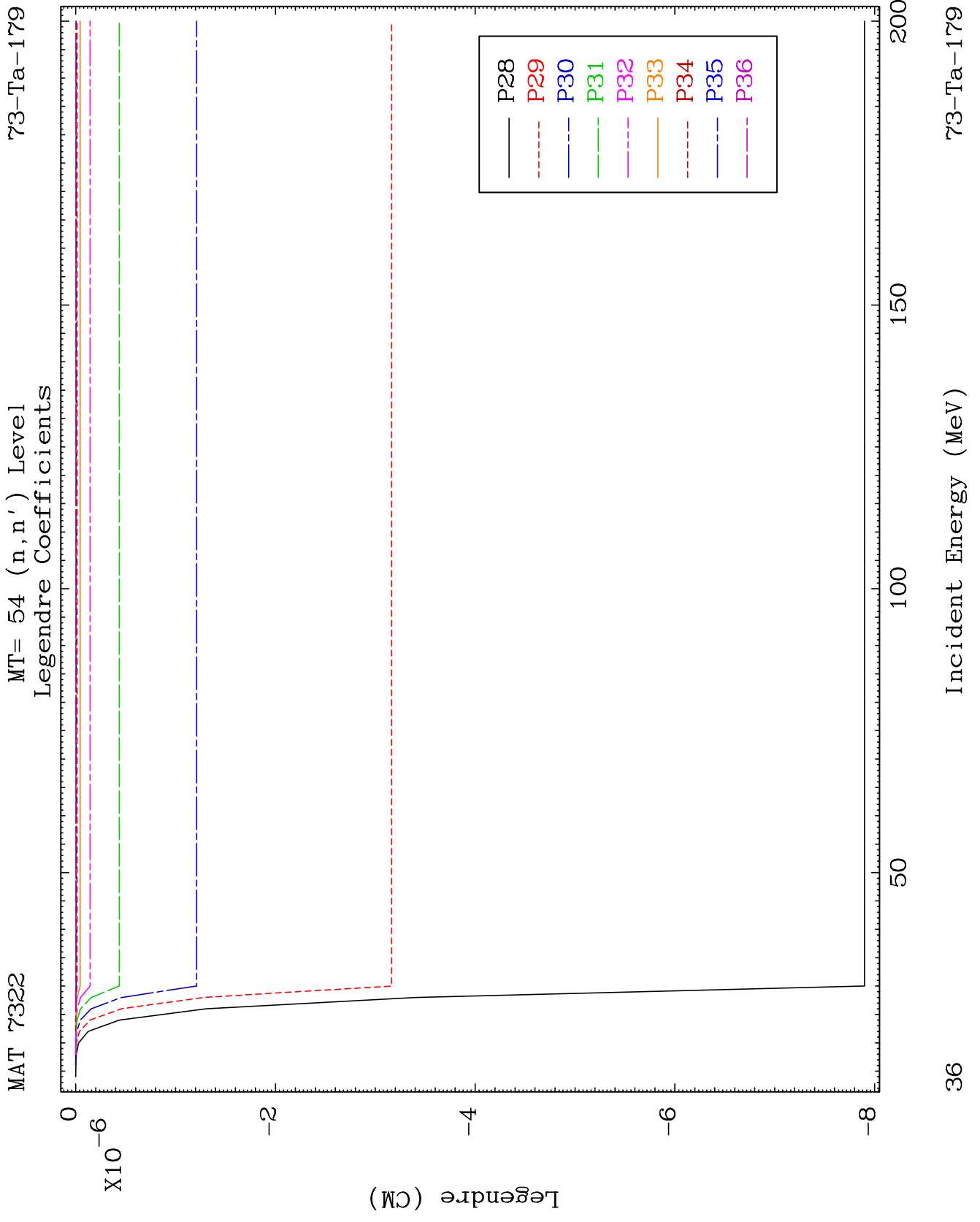
73-Ta-179



35

Incident Energy (MeV)

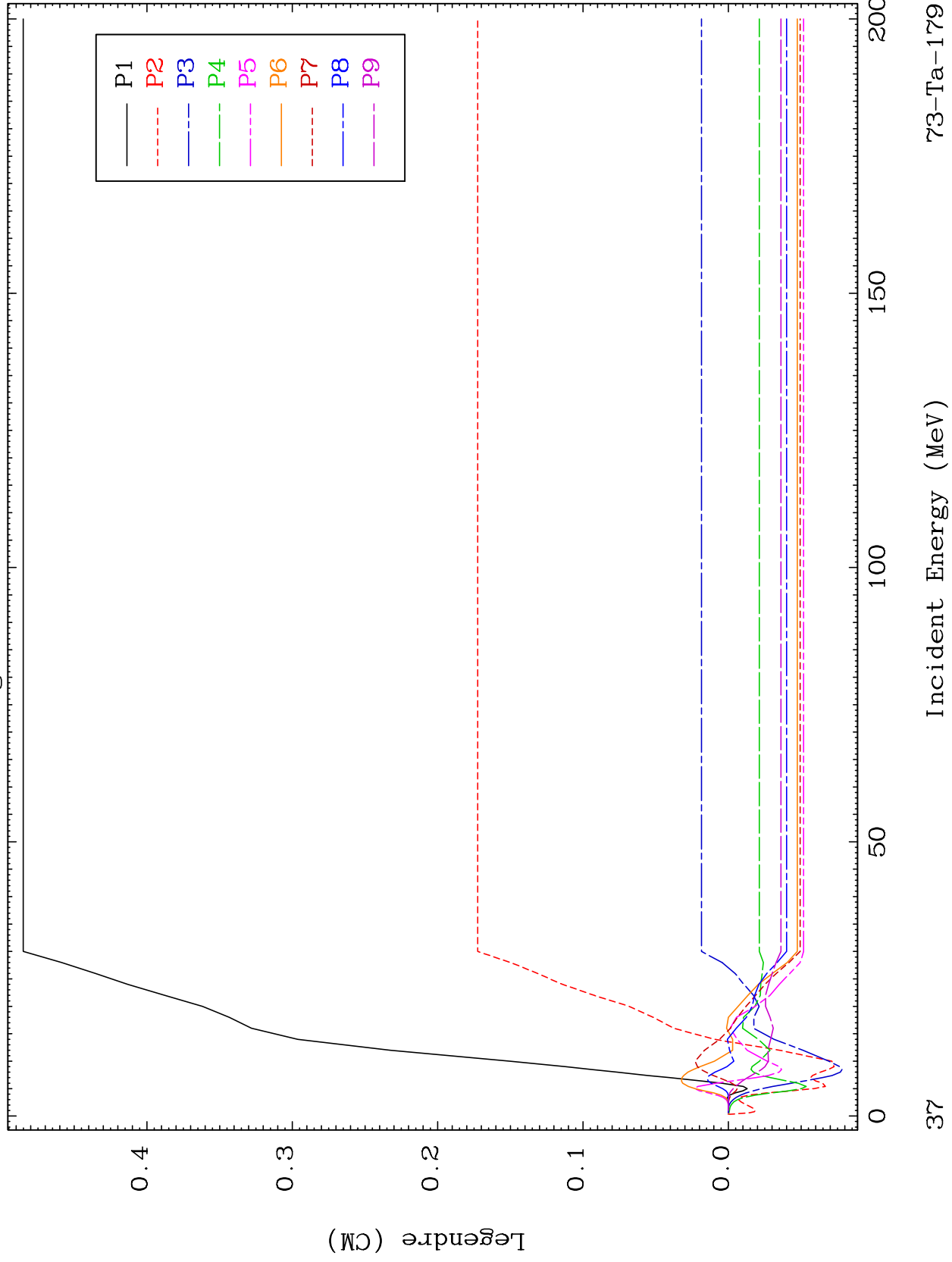
73-Ta-179



MAT 7322

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

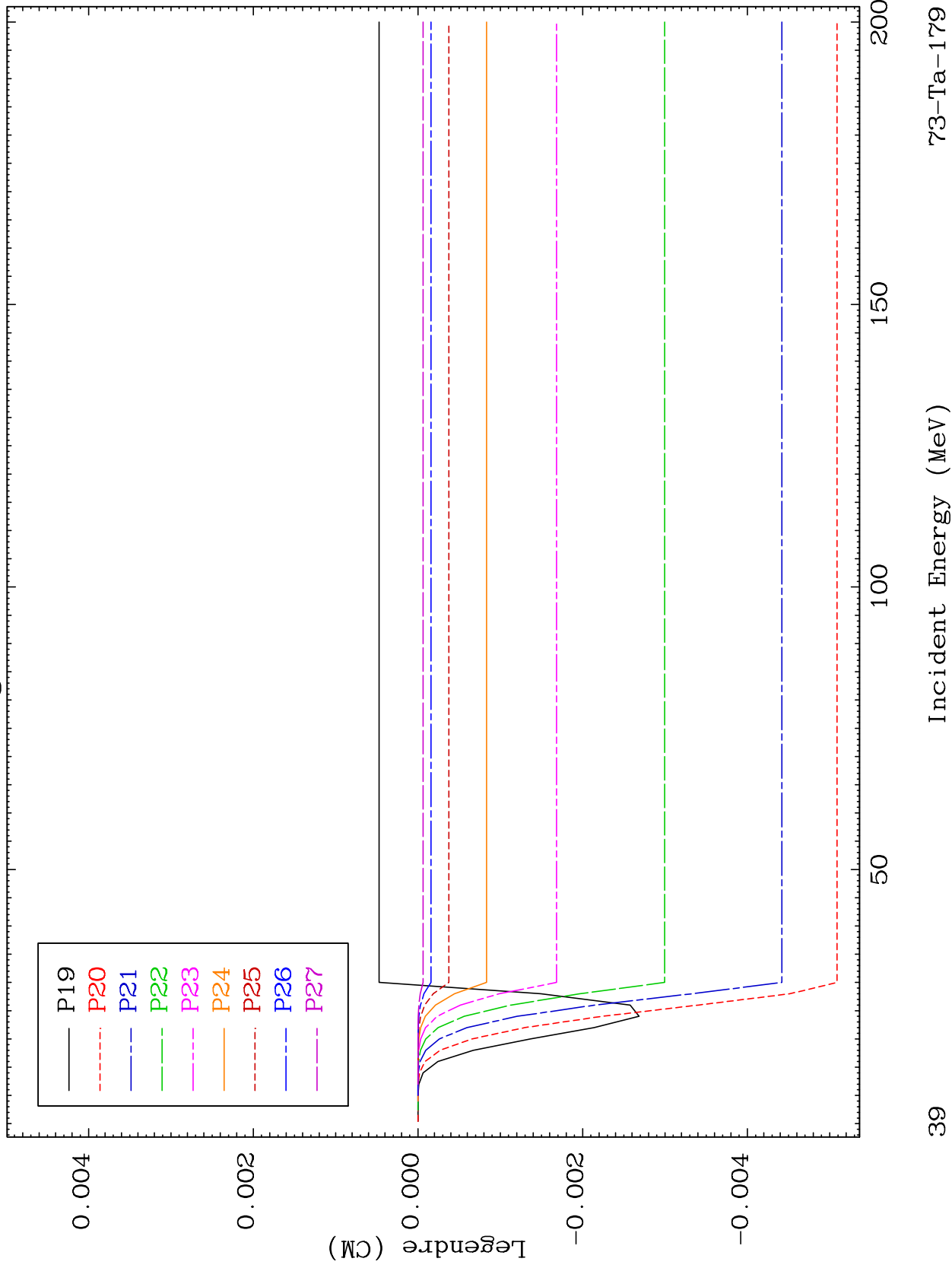
73-Ta-179



73-Ta-179

Incident Energy (MeV)

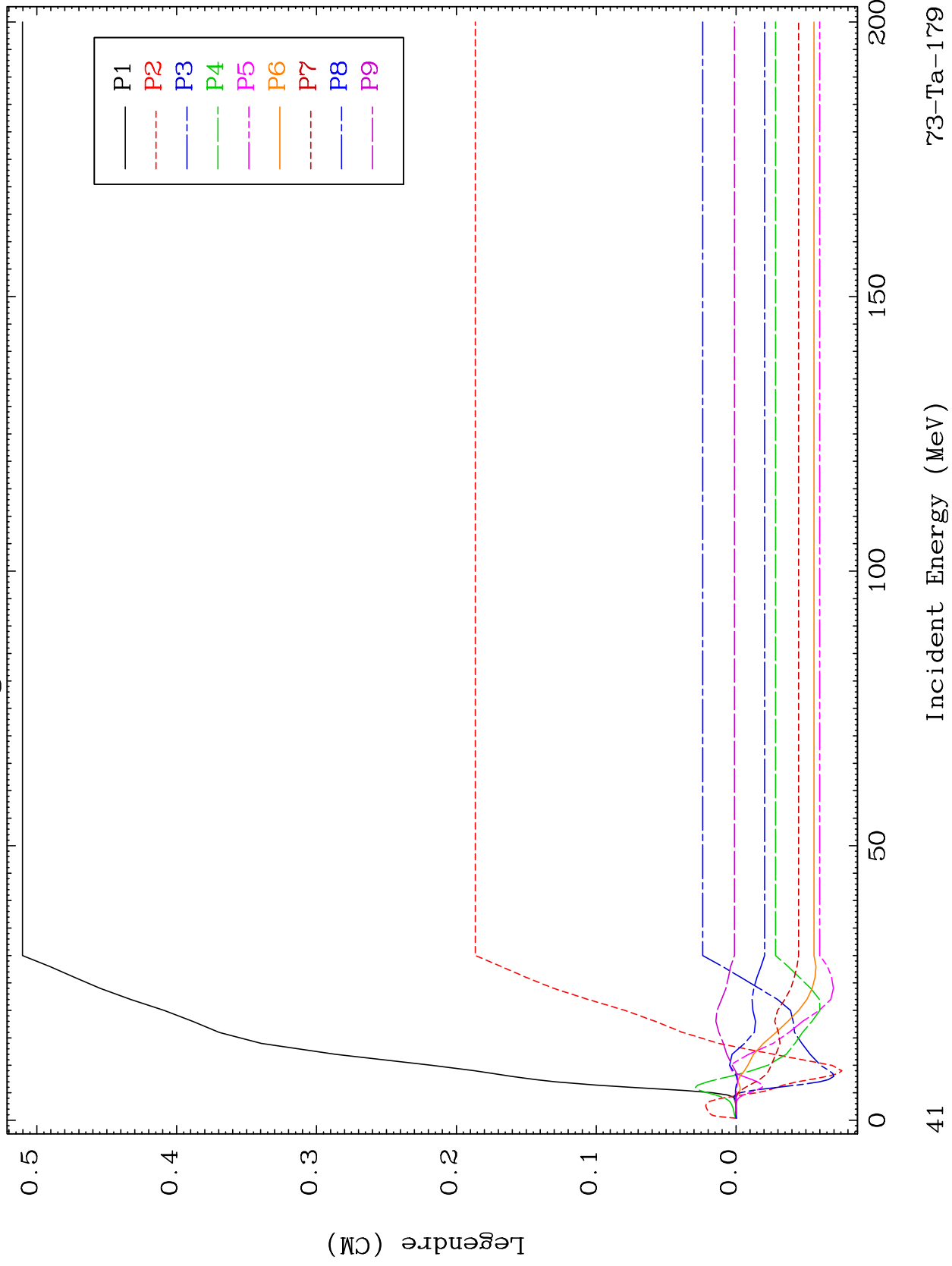
37



MAT 7322

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

73-Ta-179



73-Ta-179

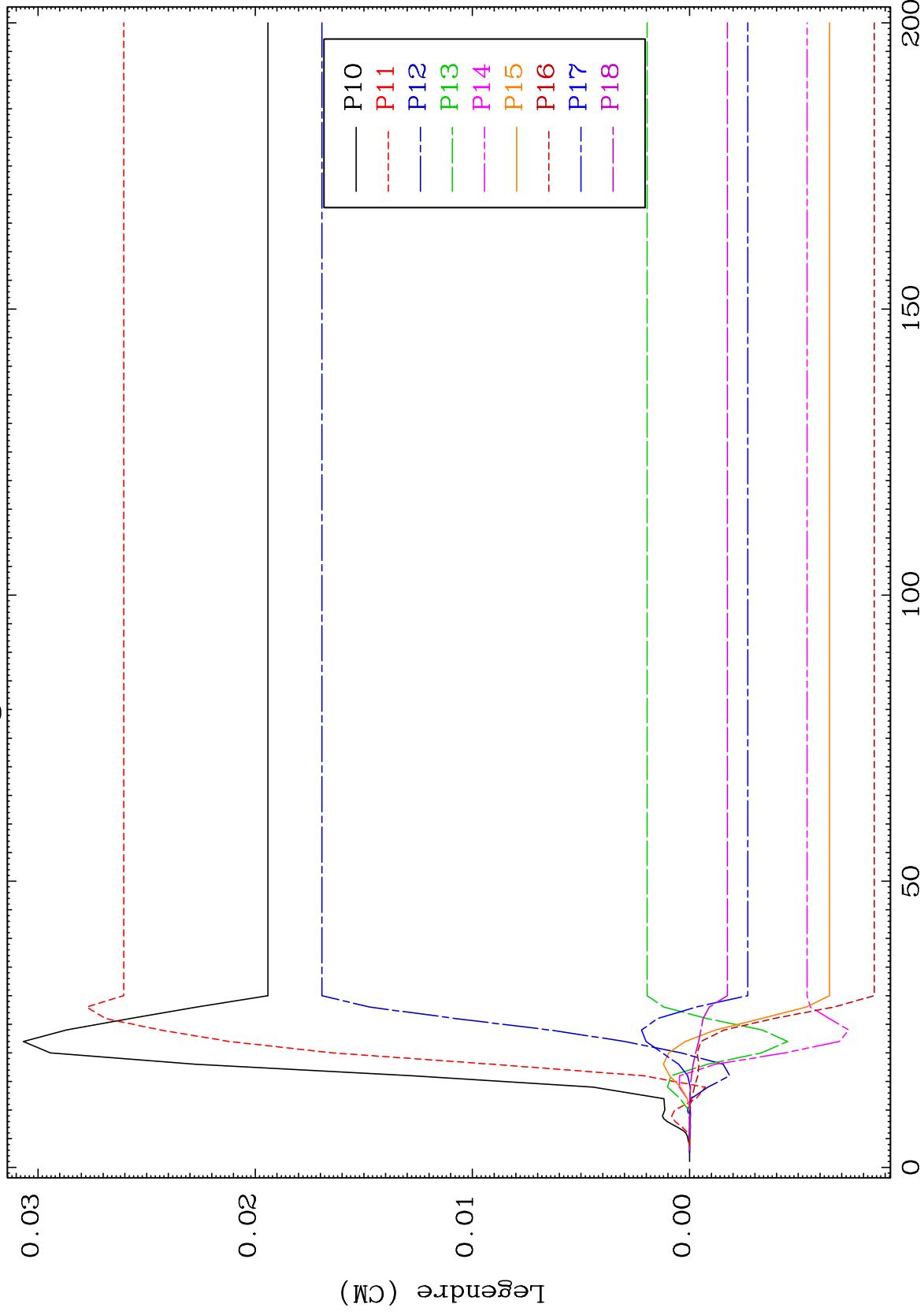
Incident Energy (MeV)

41

MAT 7322

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

73-Ta-179



42

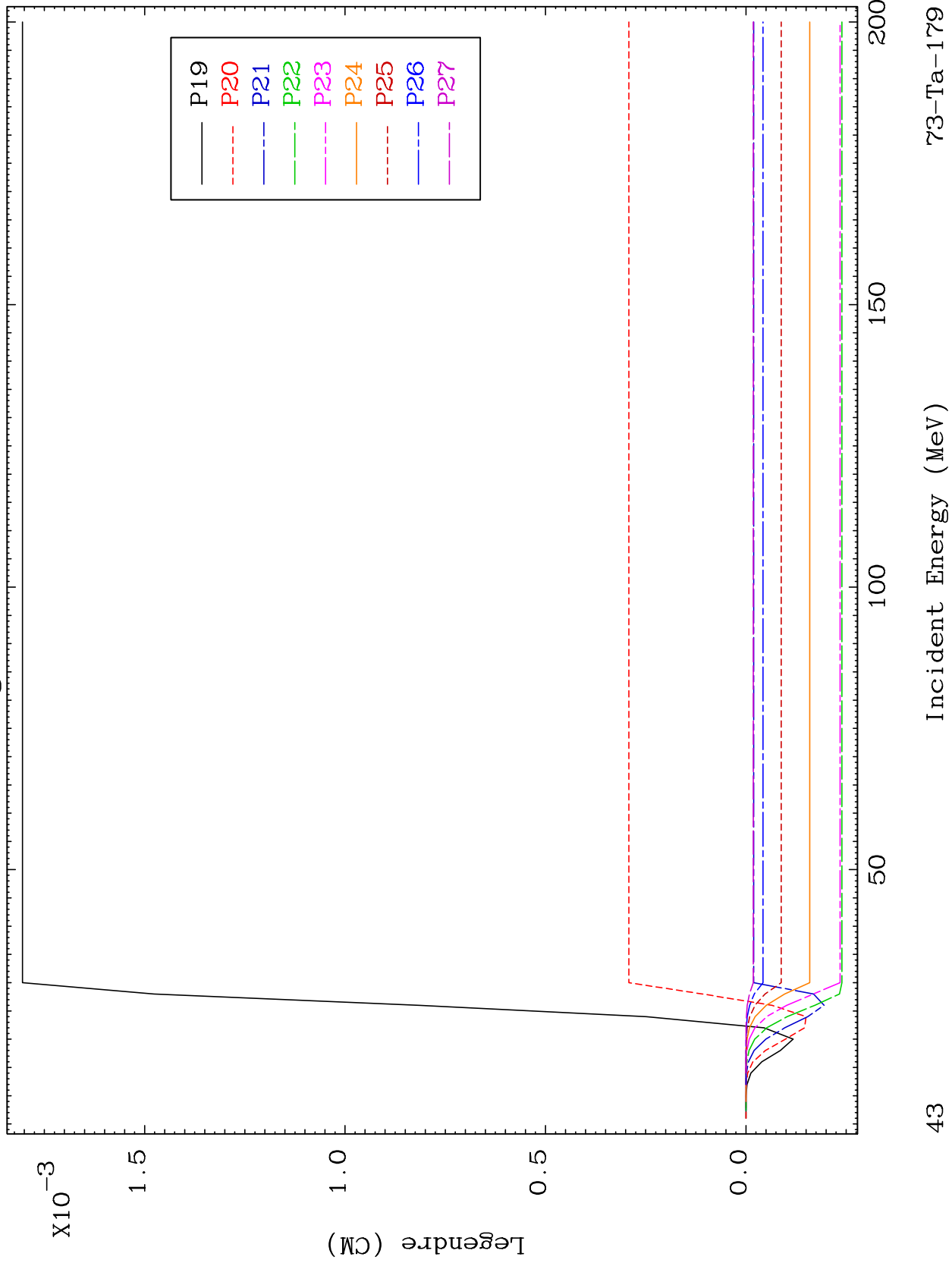
Incident Energy (MeV)

73-Ta-179

MAT 7322

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

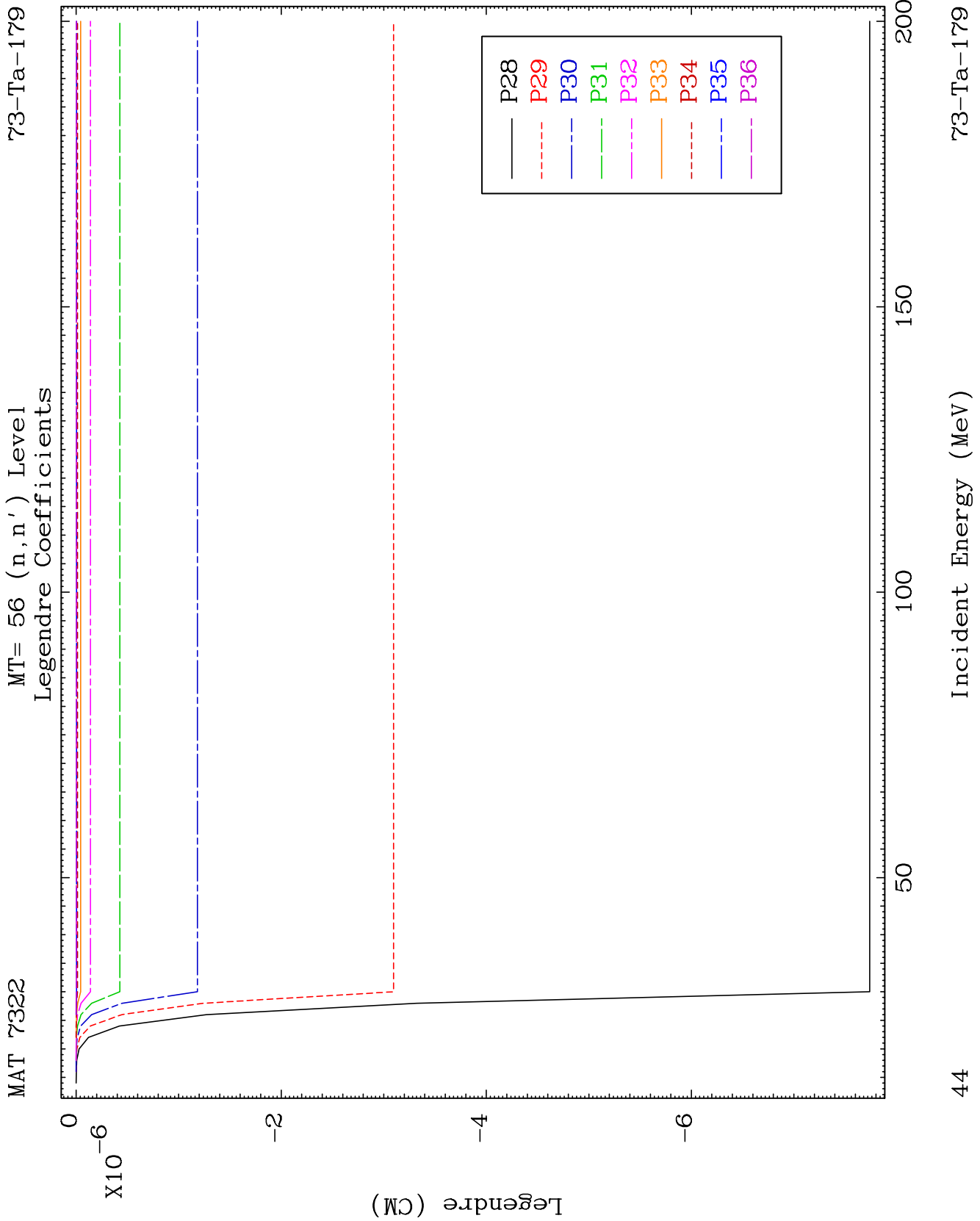
73-Ta-179



43

Incident Energy (MeV)

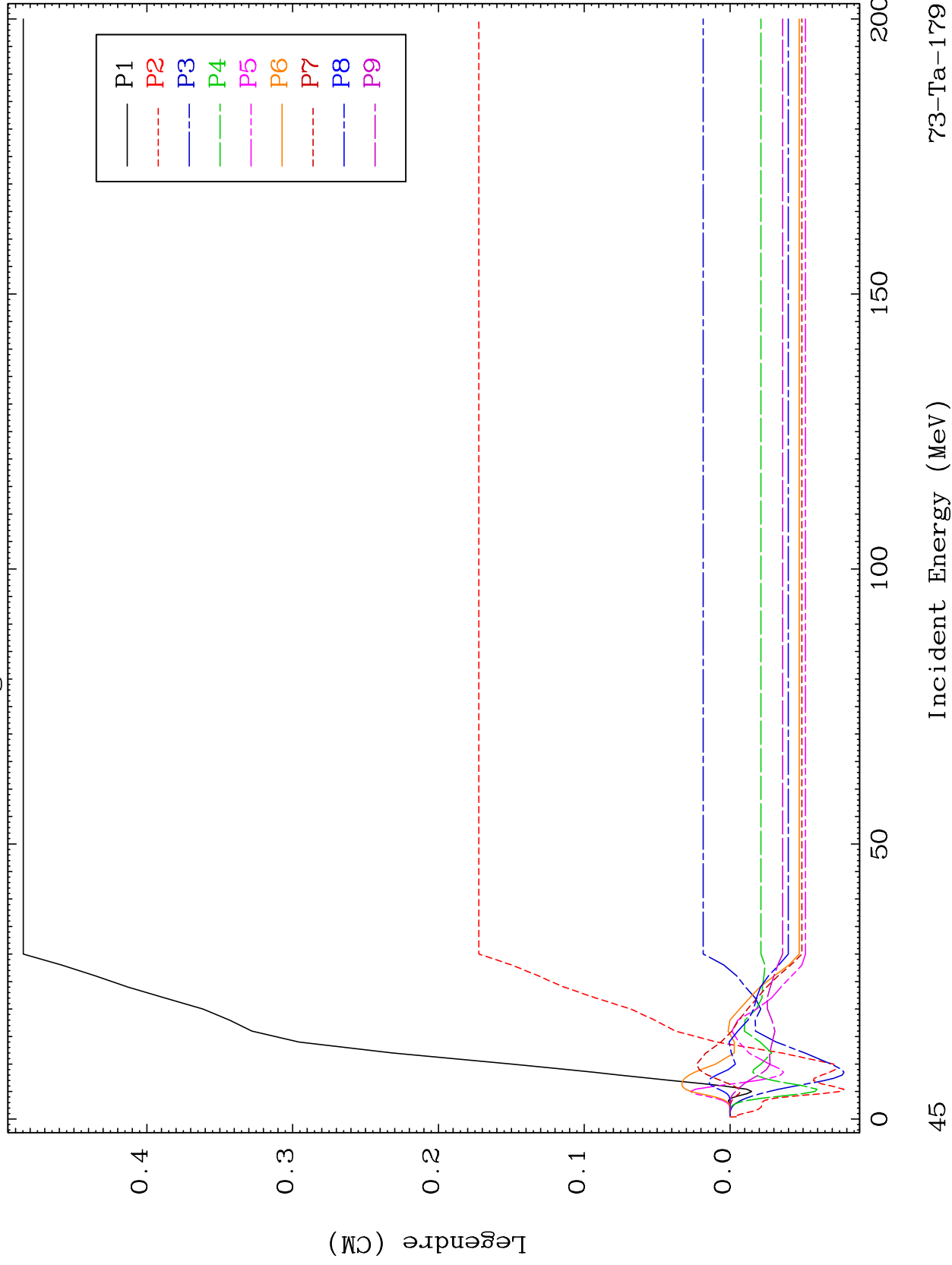
73-Ta-179

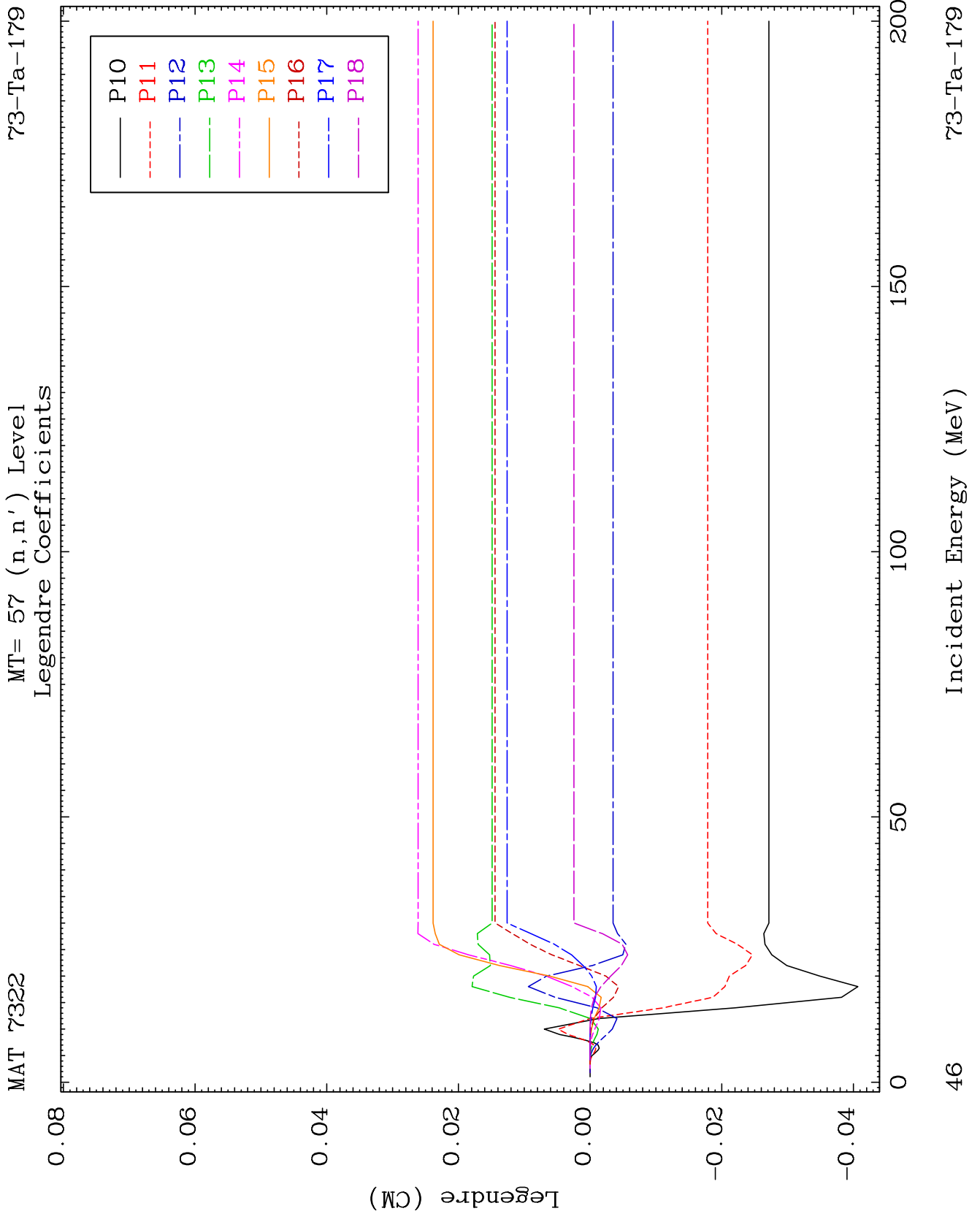


MAT 7322

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

73-Ta-179

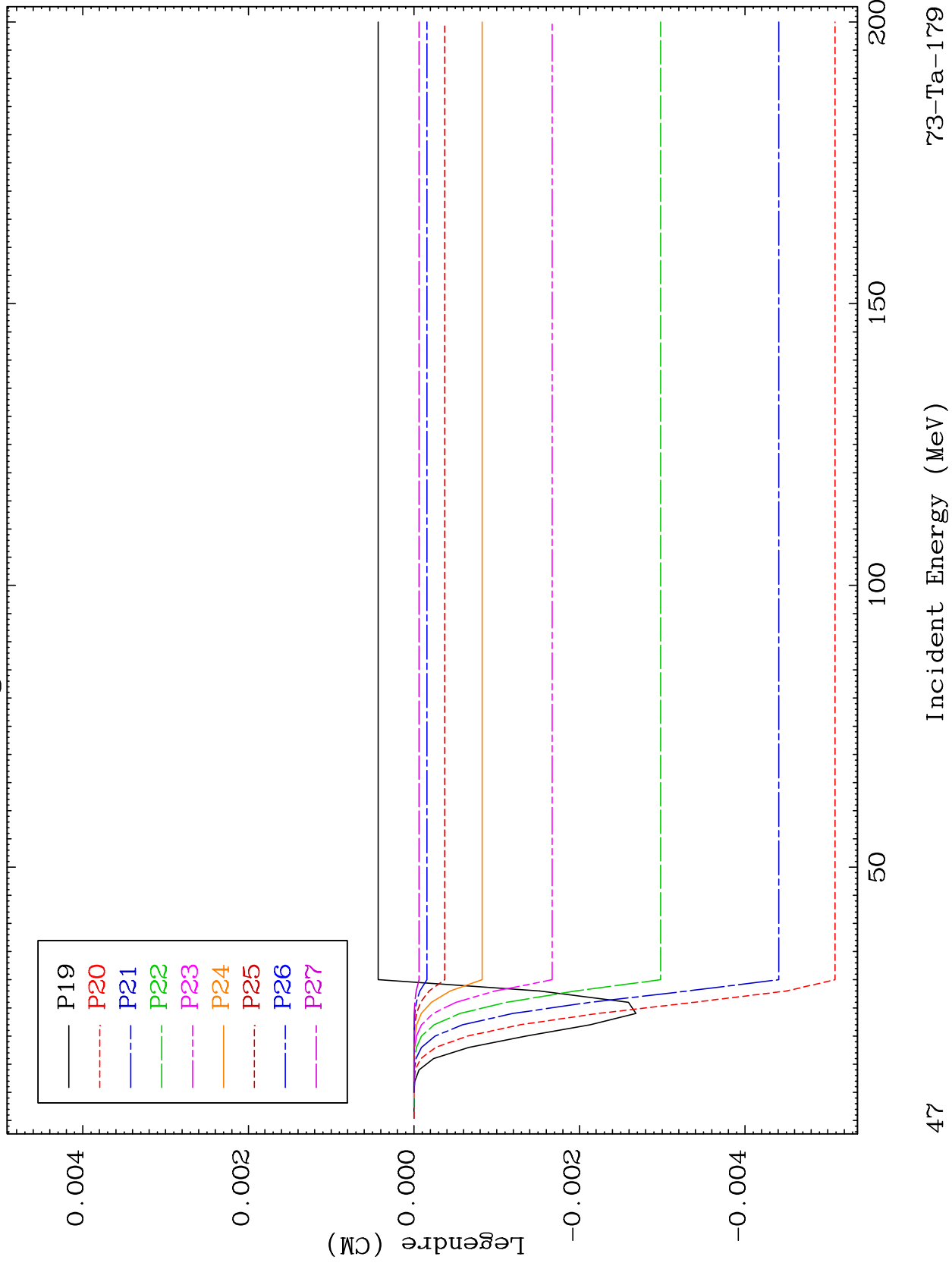




MAT 7322

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

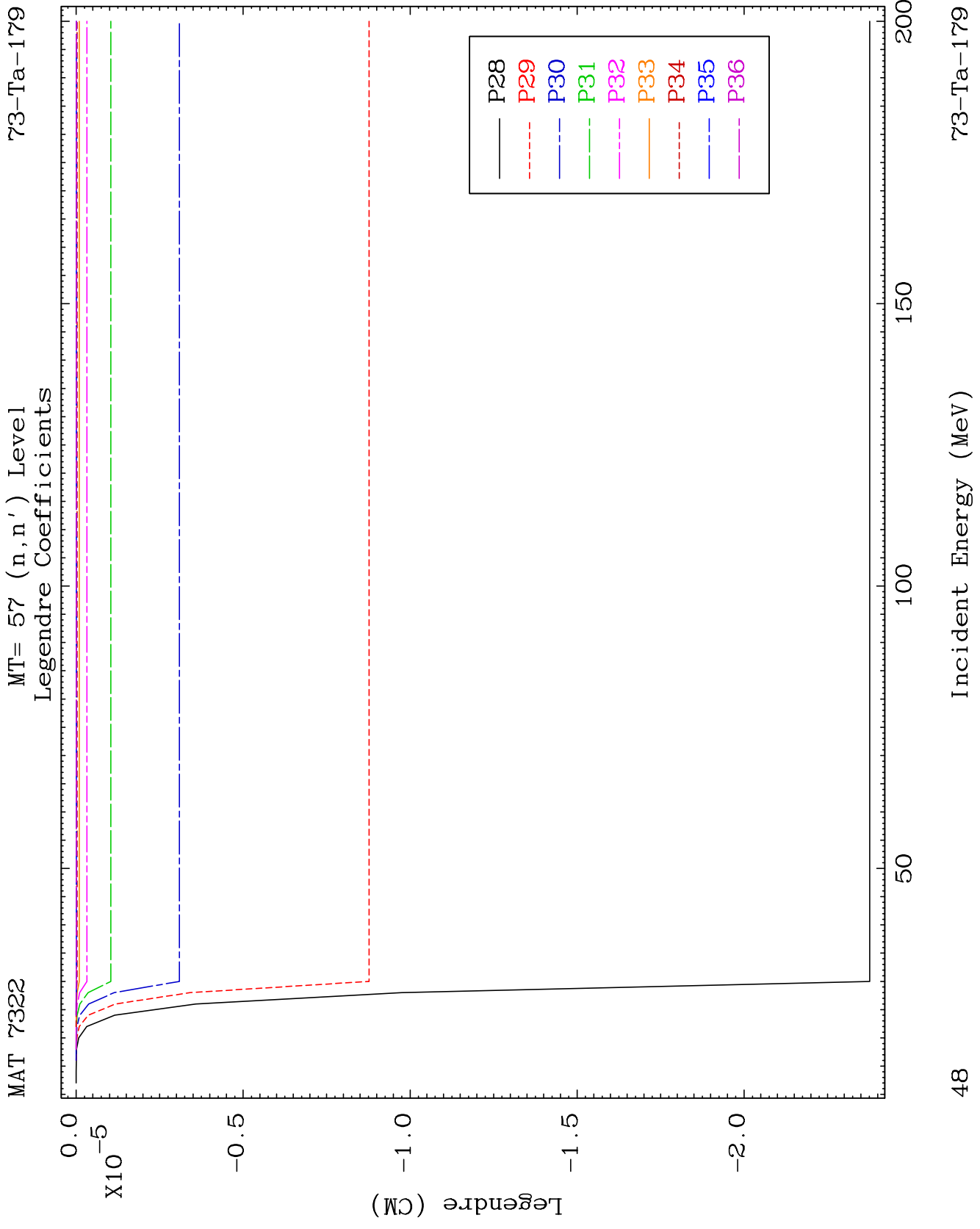
73-Ta-179



47

Incident Energy (MeV)

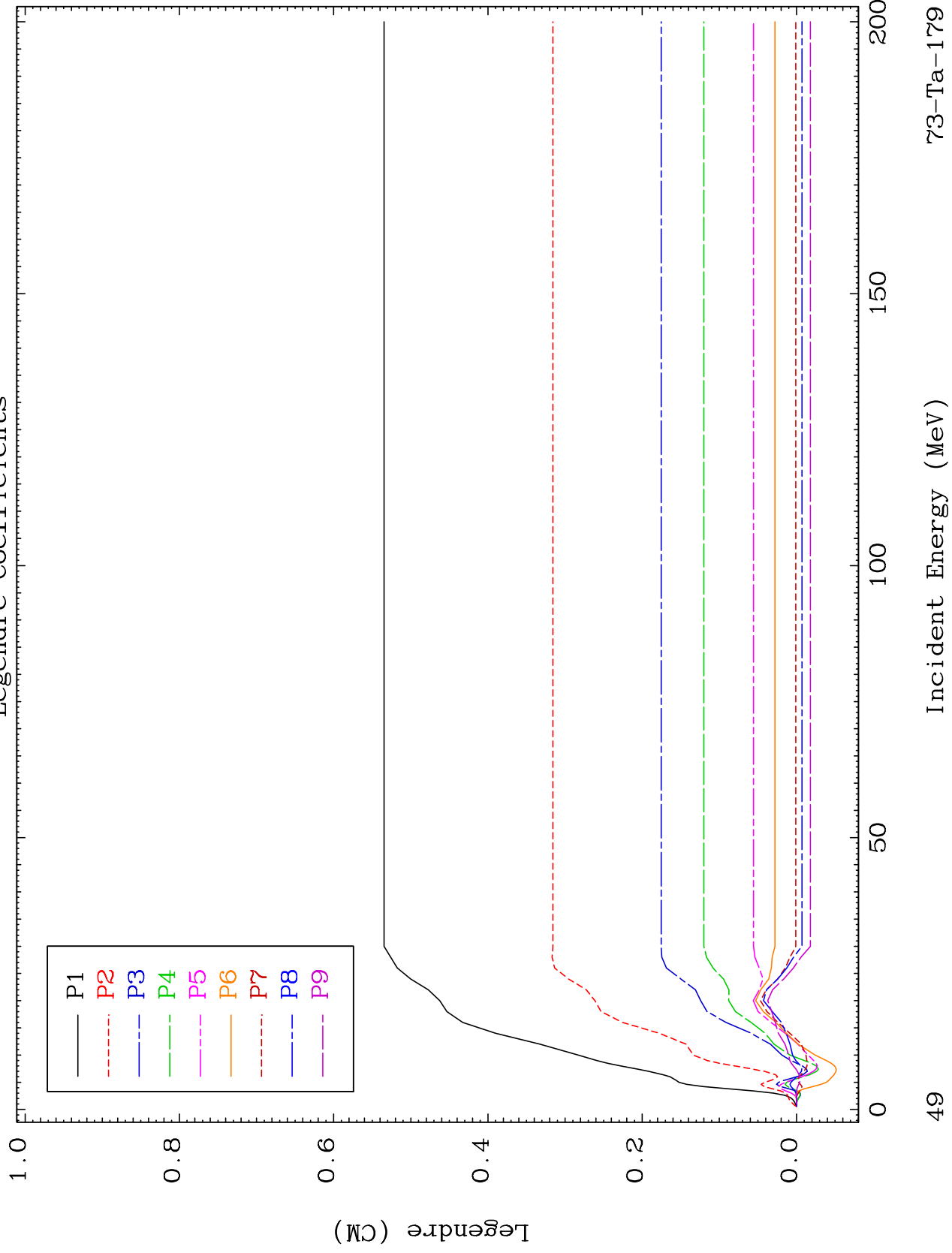
73-Ta-179



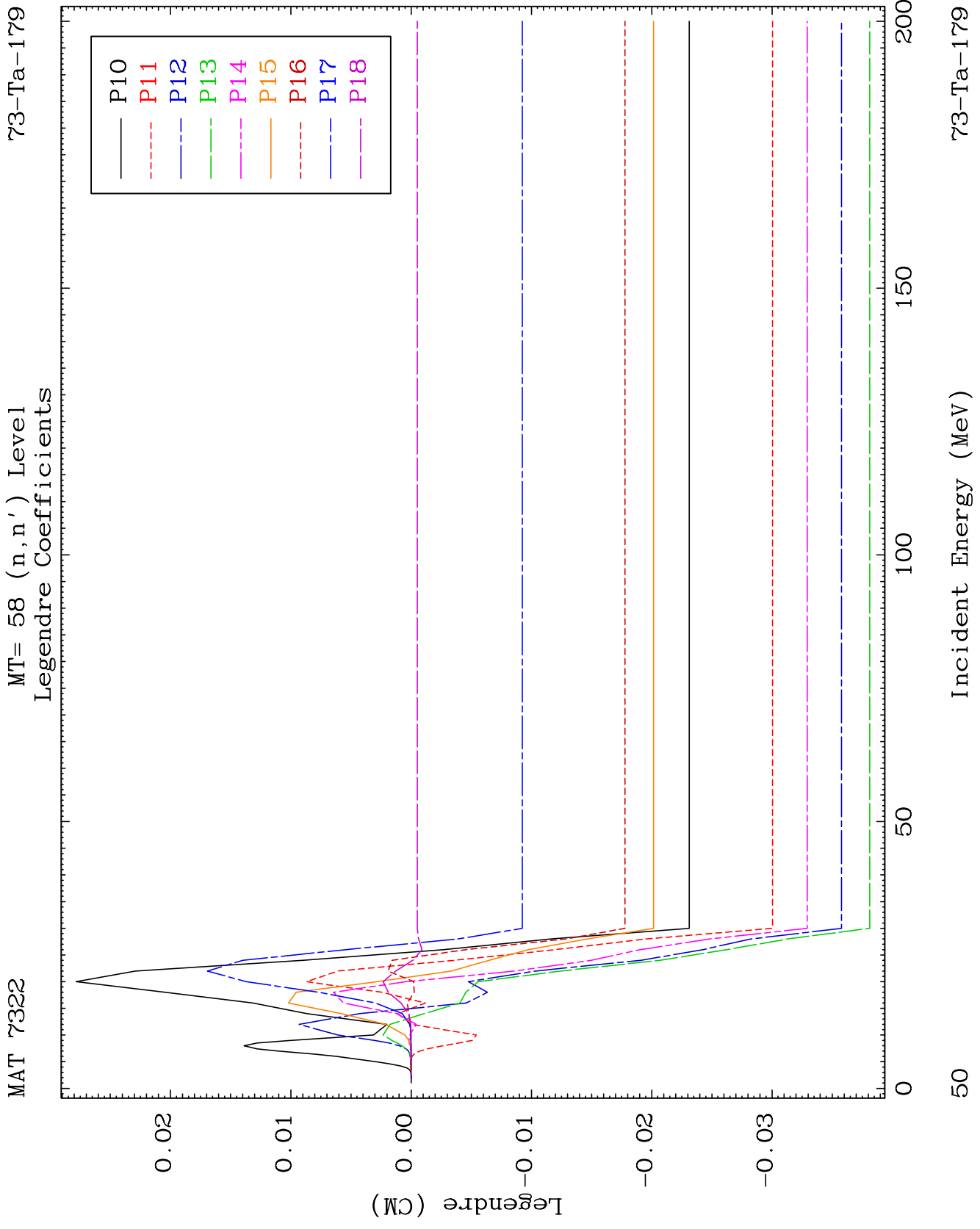
MAT 7322

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

73-Ta-179



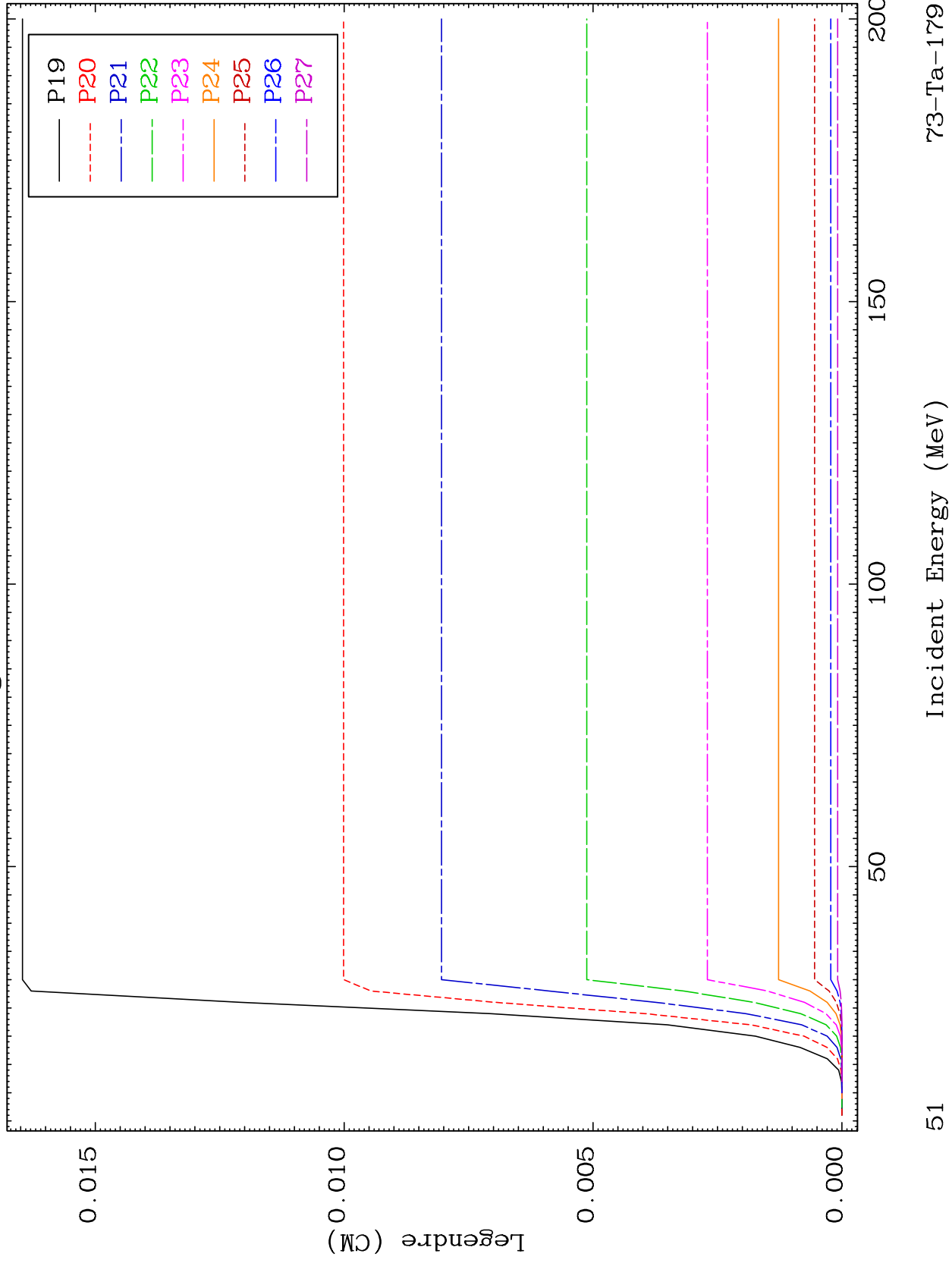
49



MAT 7322

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

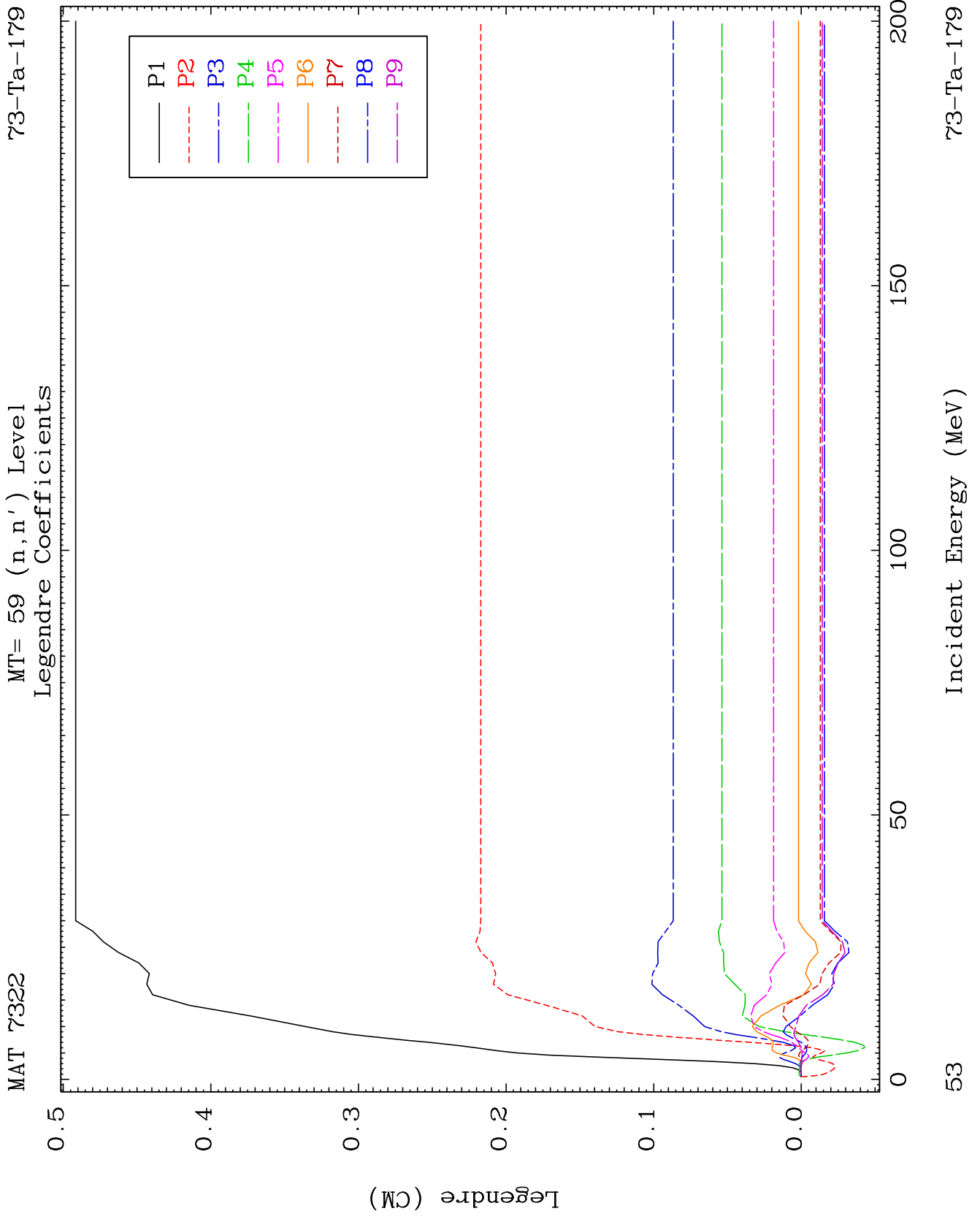
73-Ta-179

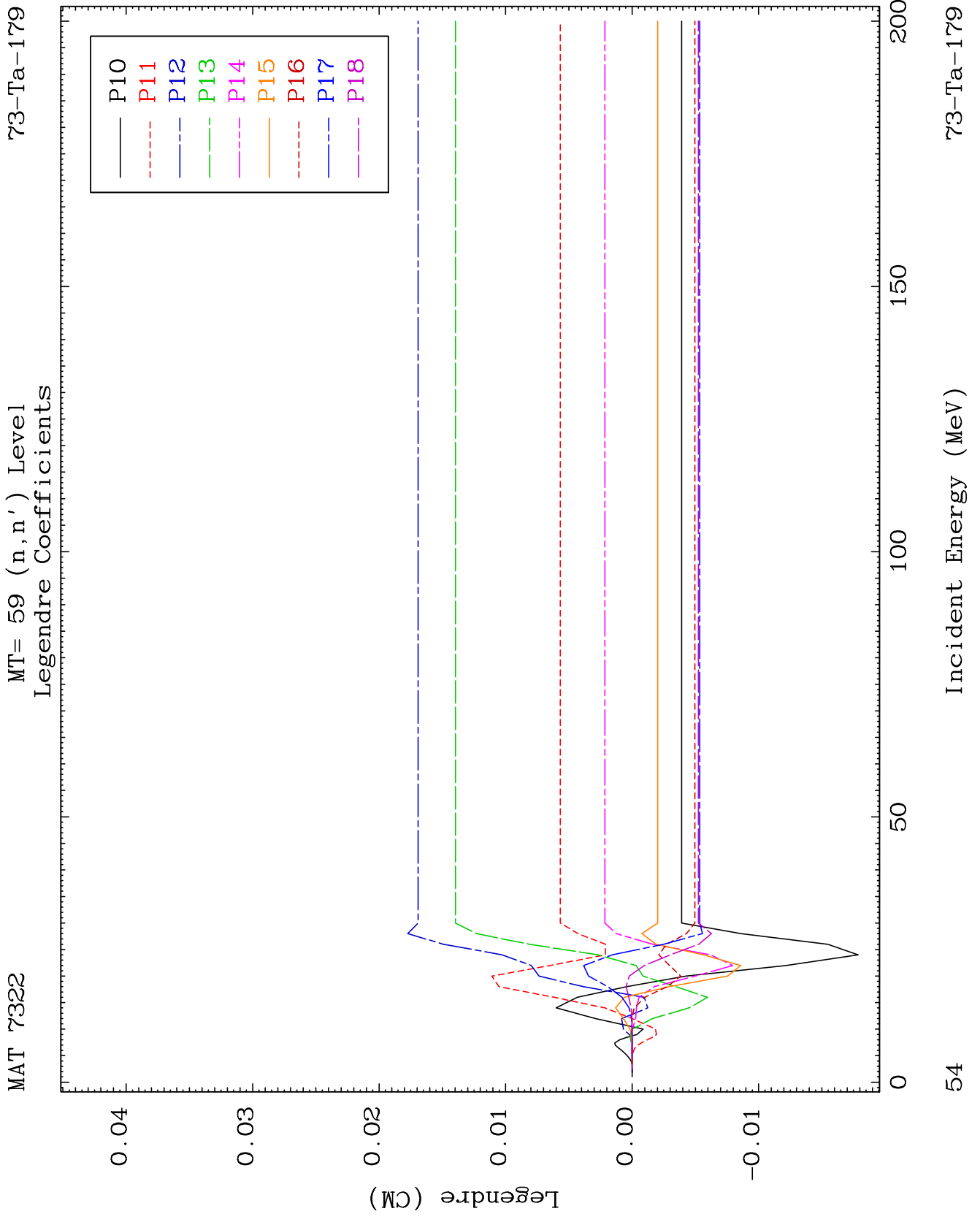


51

Incident Energy (MeV)

73-Ta-179

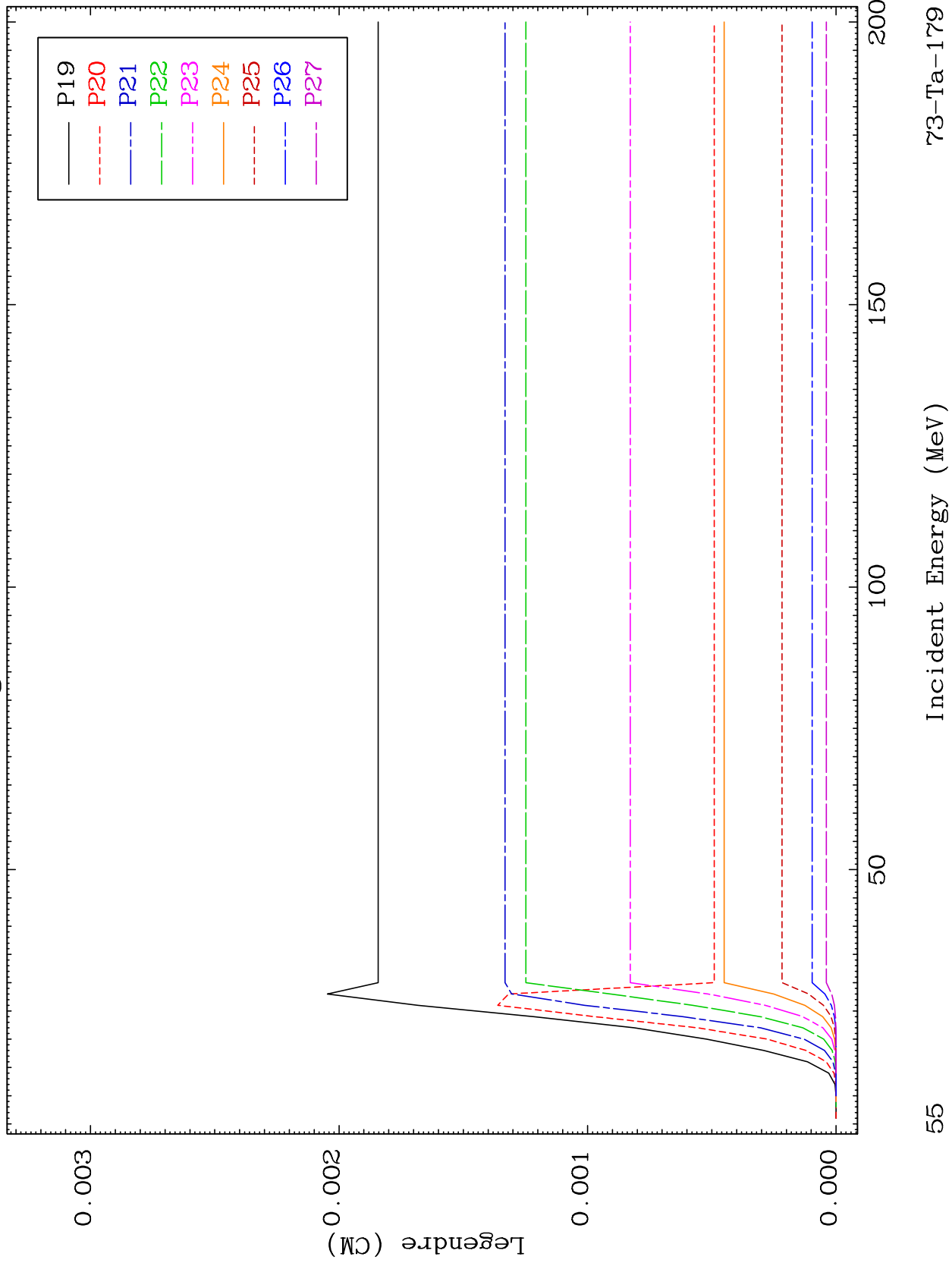




MAT 7322

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

73-Ta-179



55

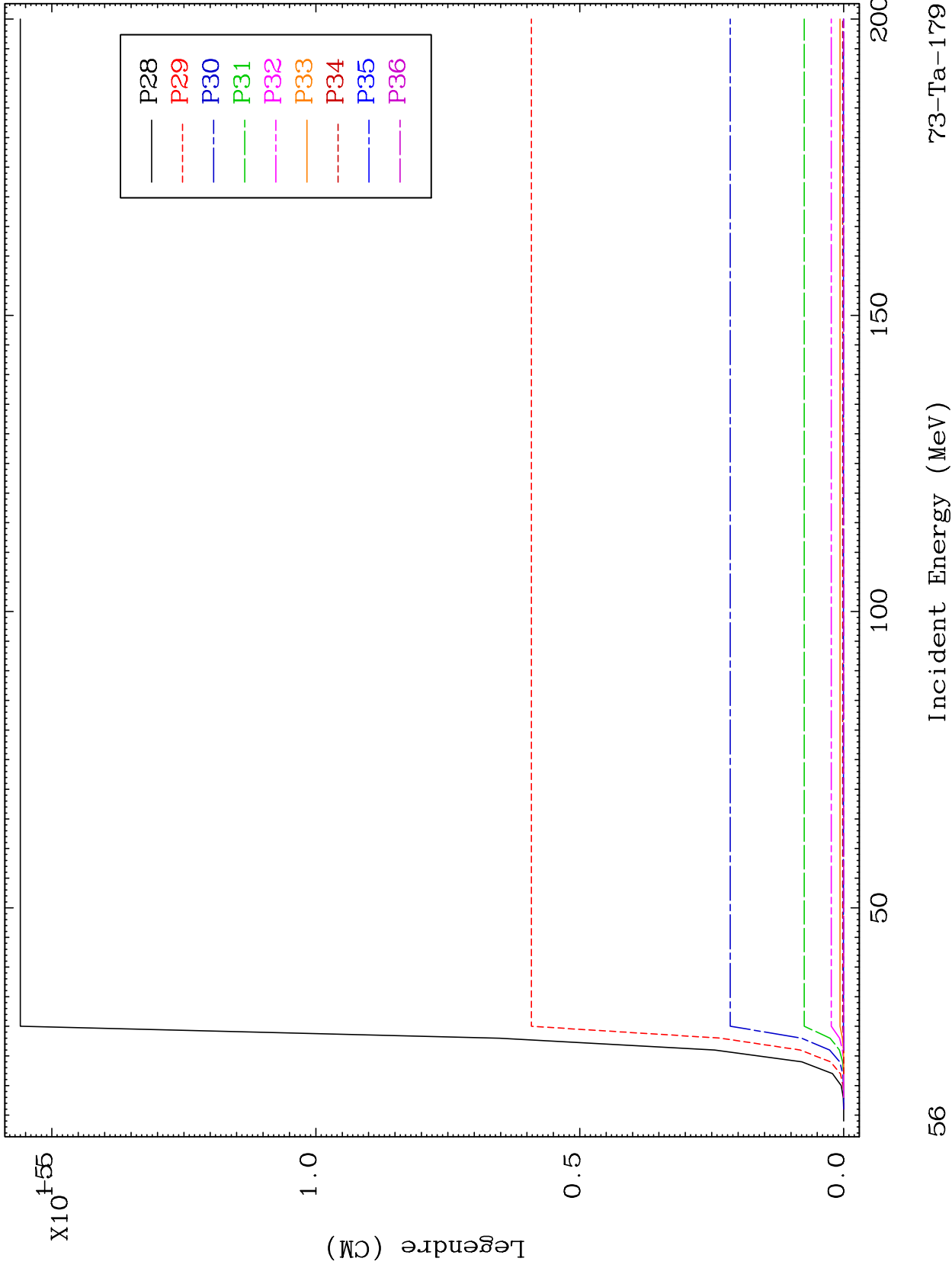
Incident Energy (MeV)

73-Ta-179

MAT 7322

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

73-Ta-179



56

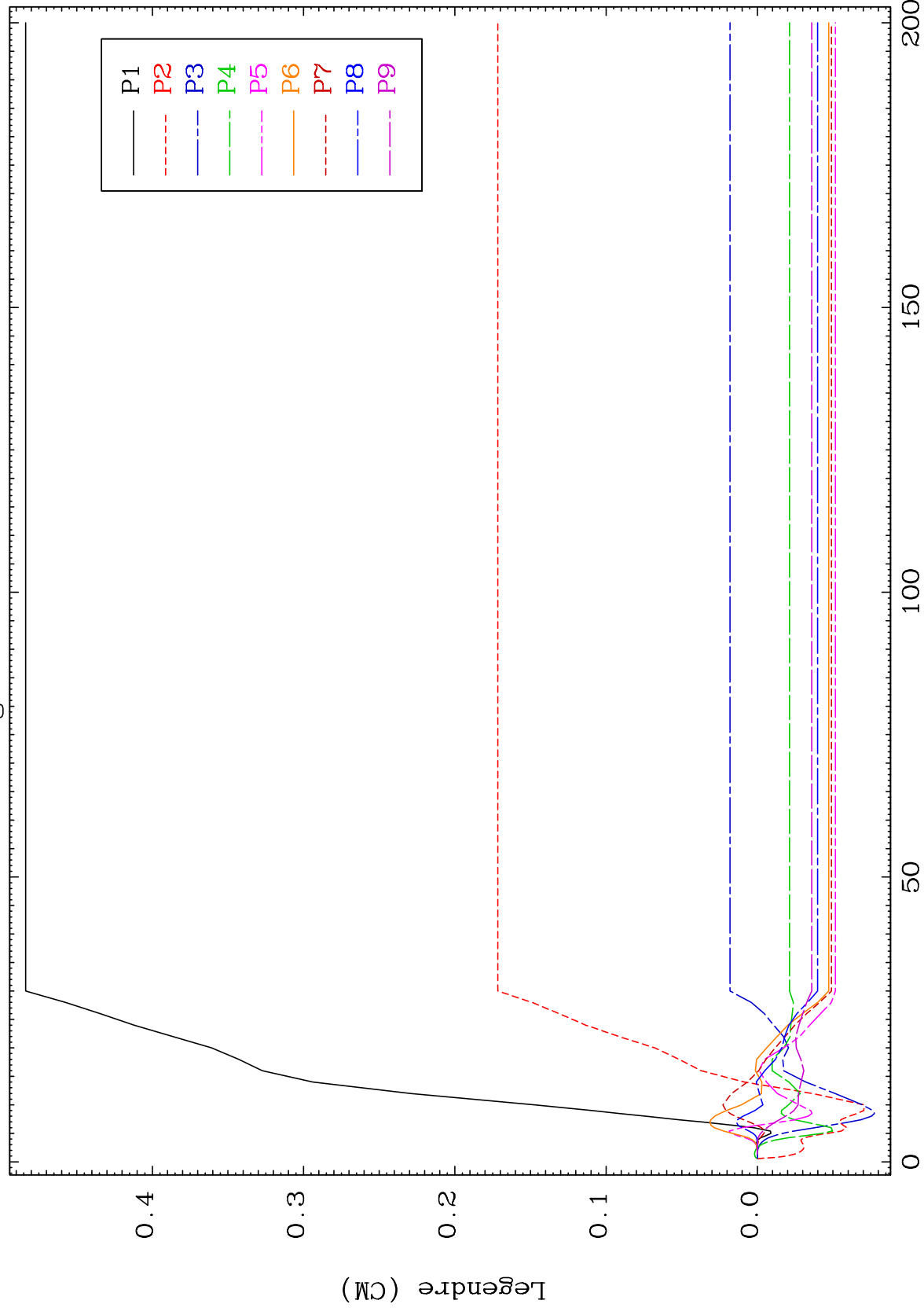
Incident Energy (MeV)

73-Ta-179

MAT 7322

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

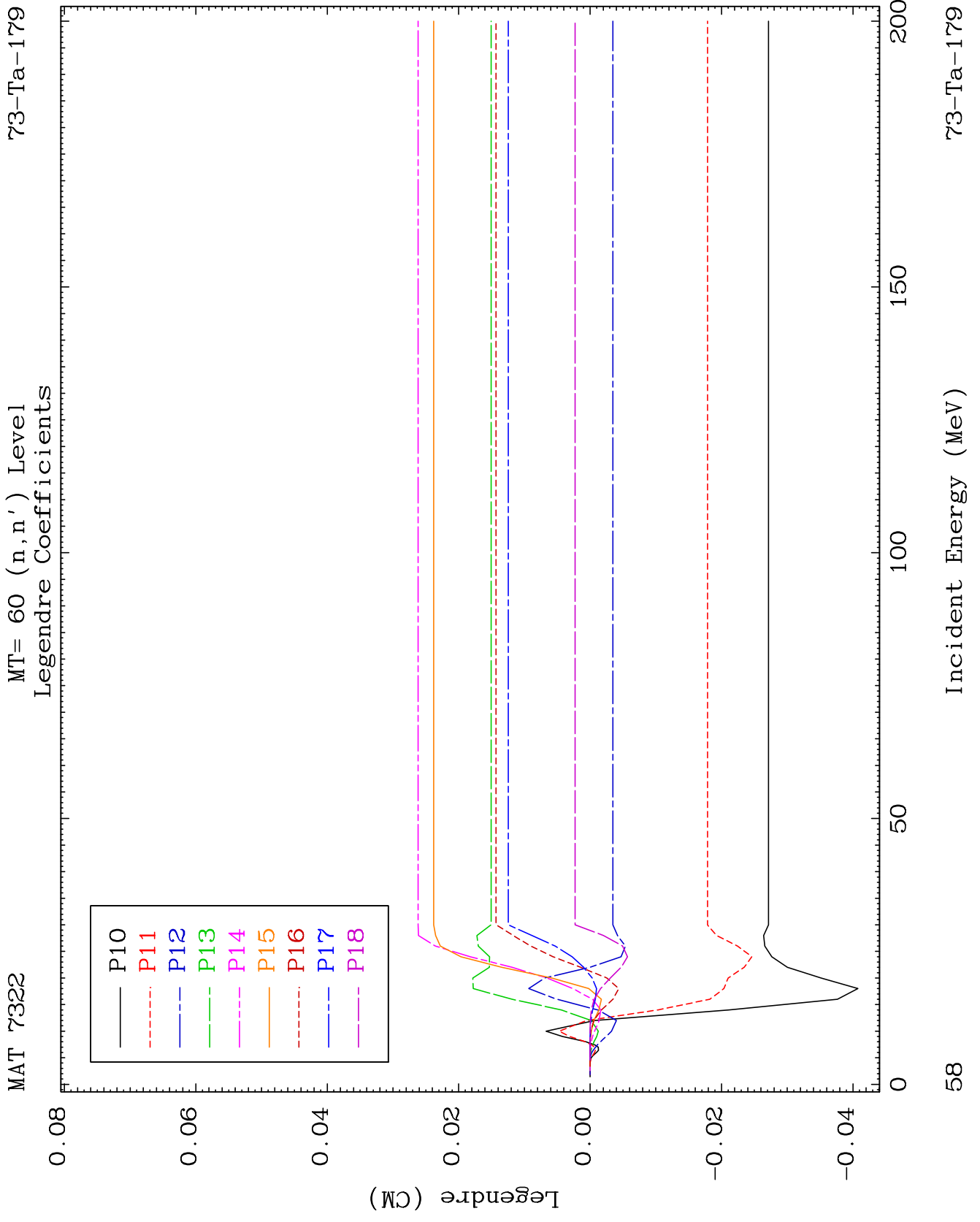
73-Ta-179

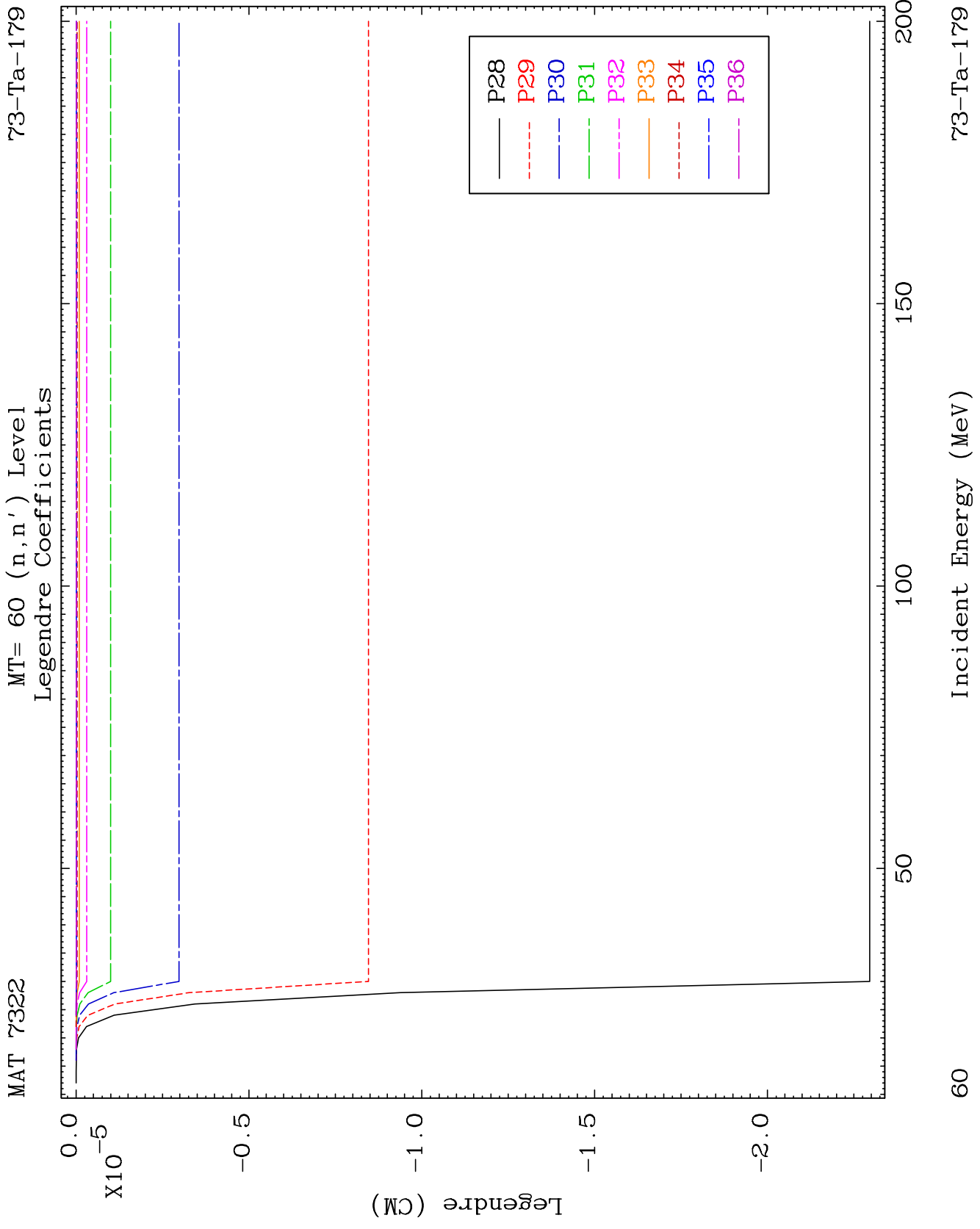


73-Ta-179

Incident Energy (MeV)

57

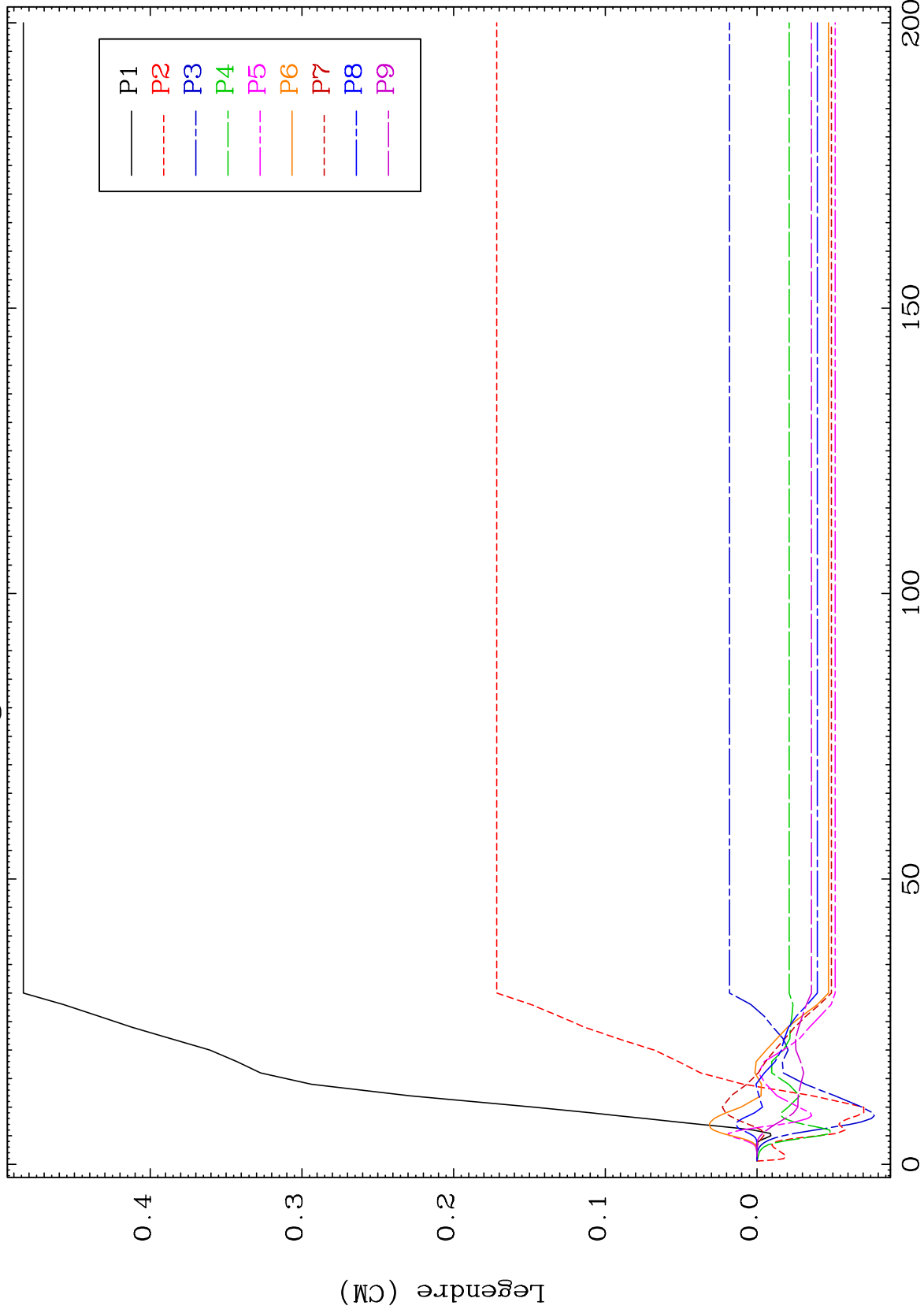




MAT 7322

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

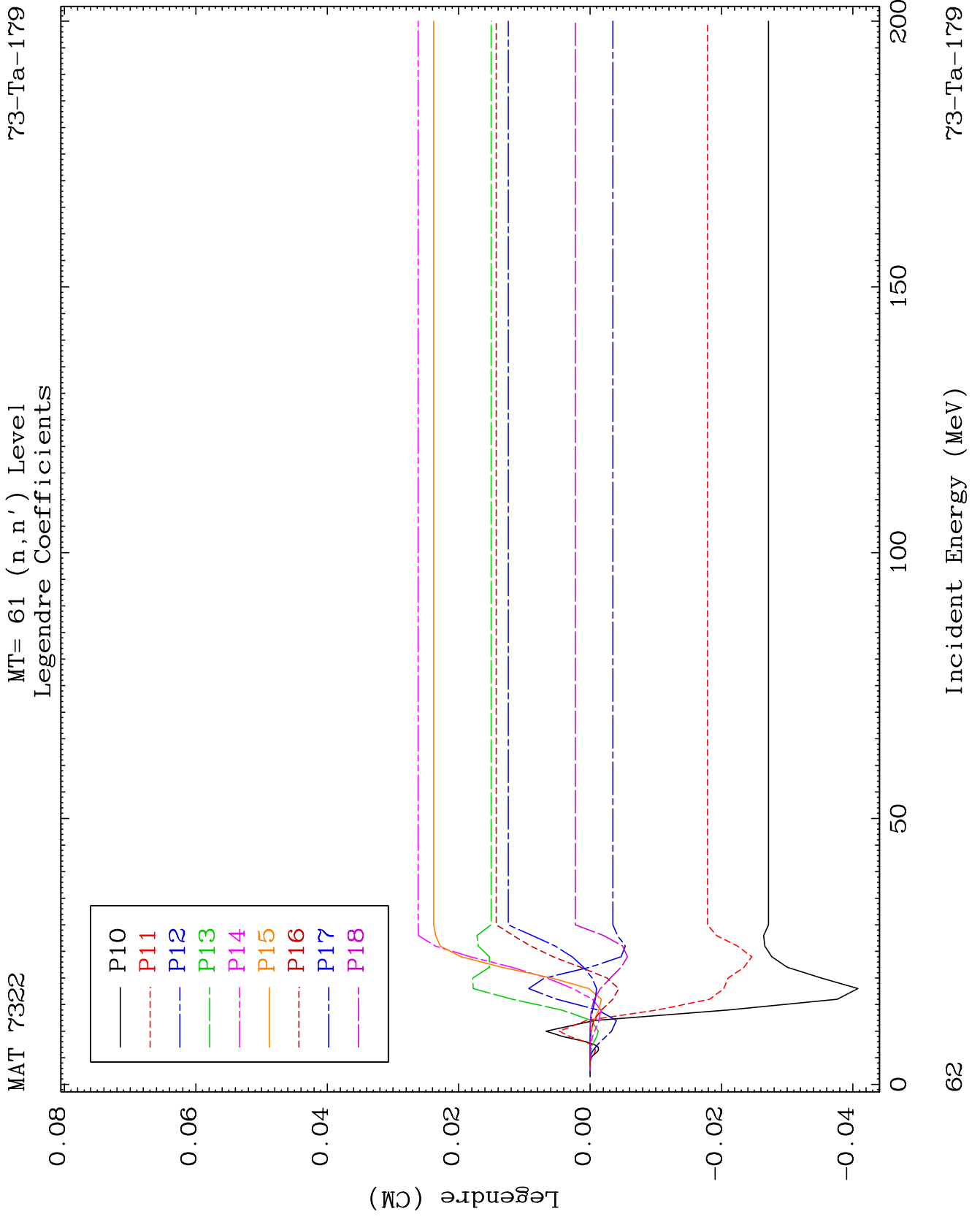
73-Ta-179



73-Ta-179

Incident Energy (MeV)

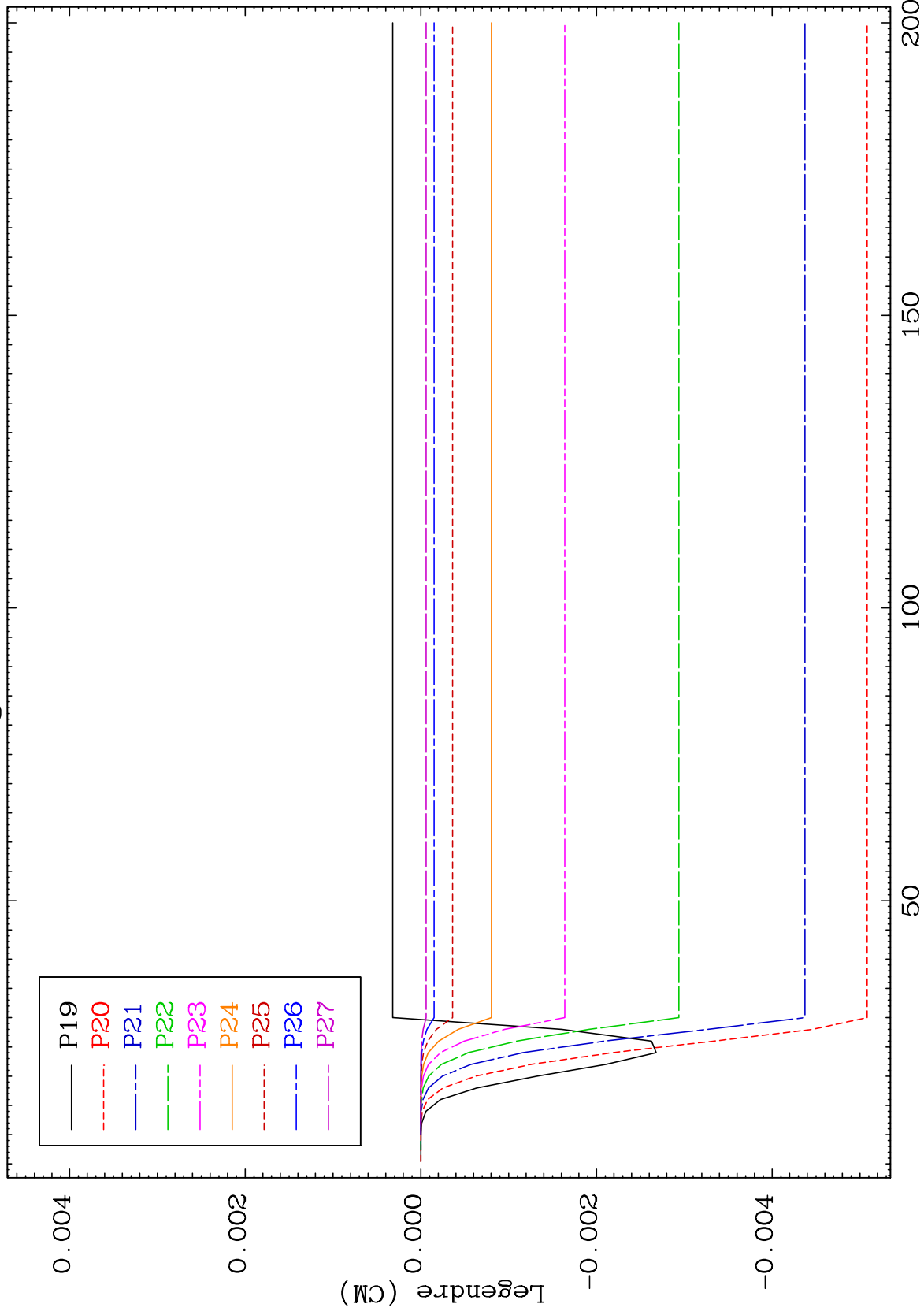
61



MAT 7322

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

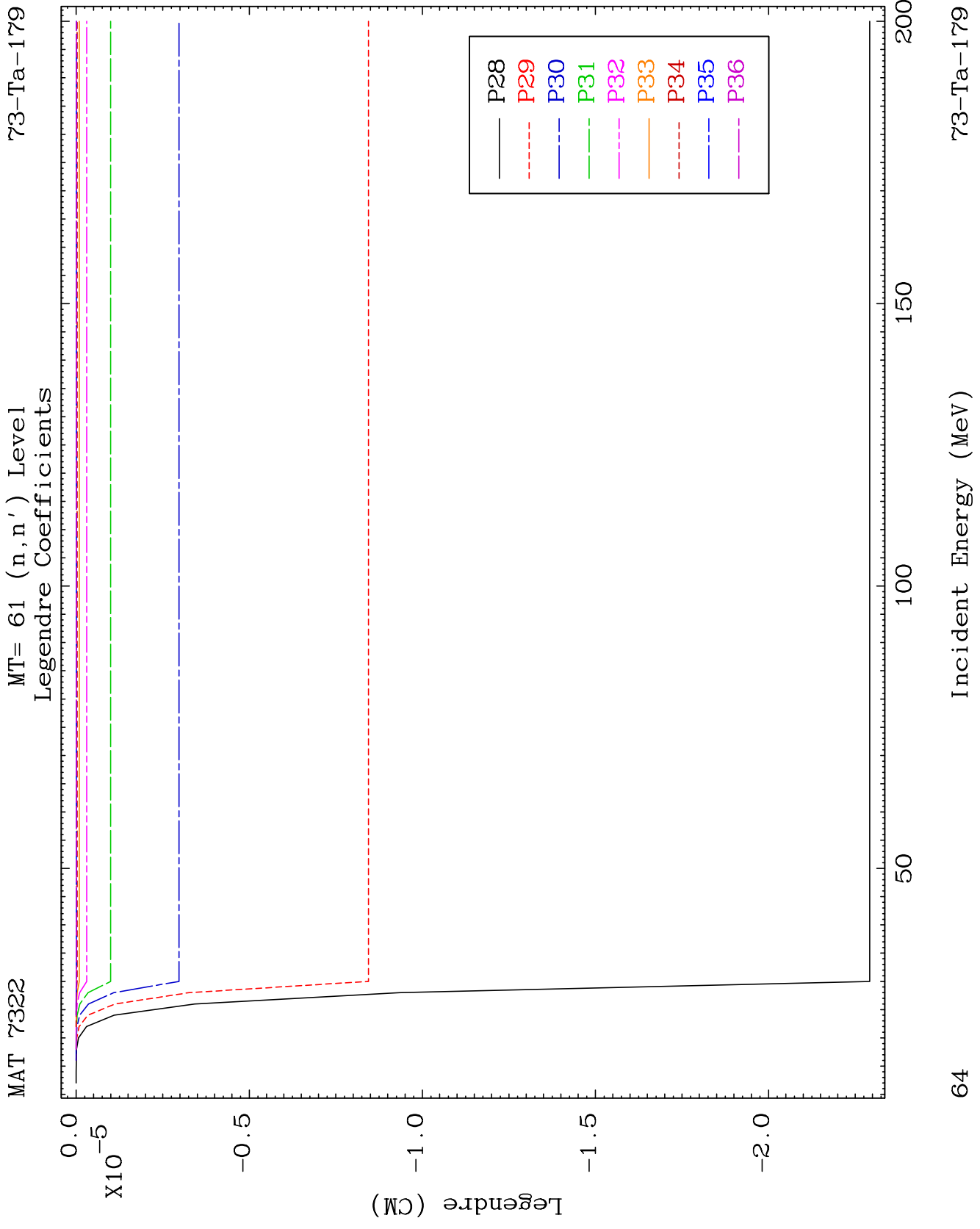
73-Ta-179

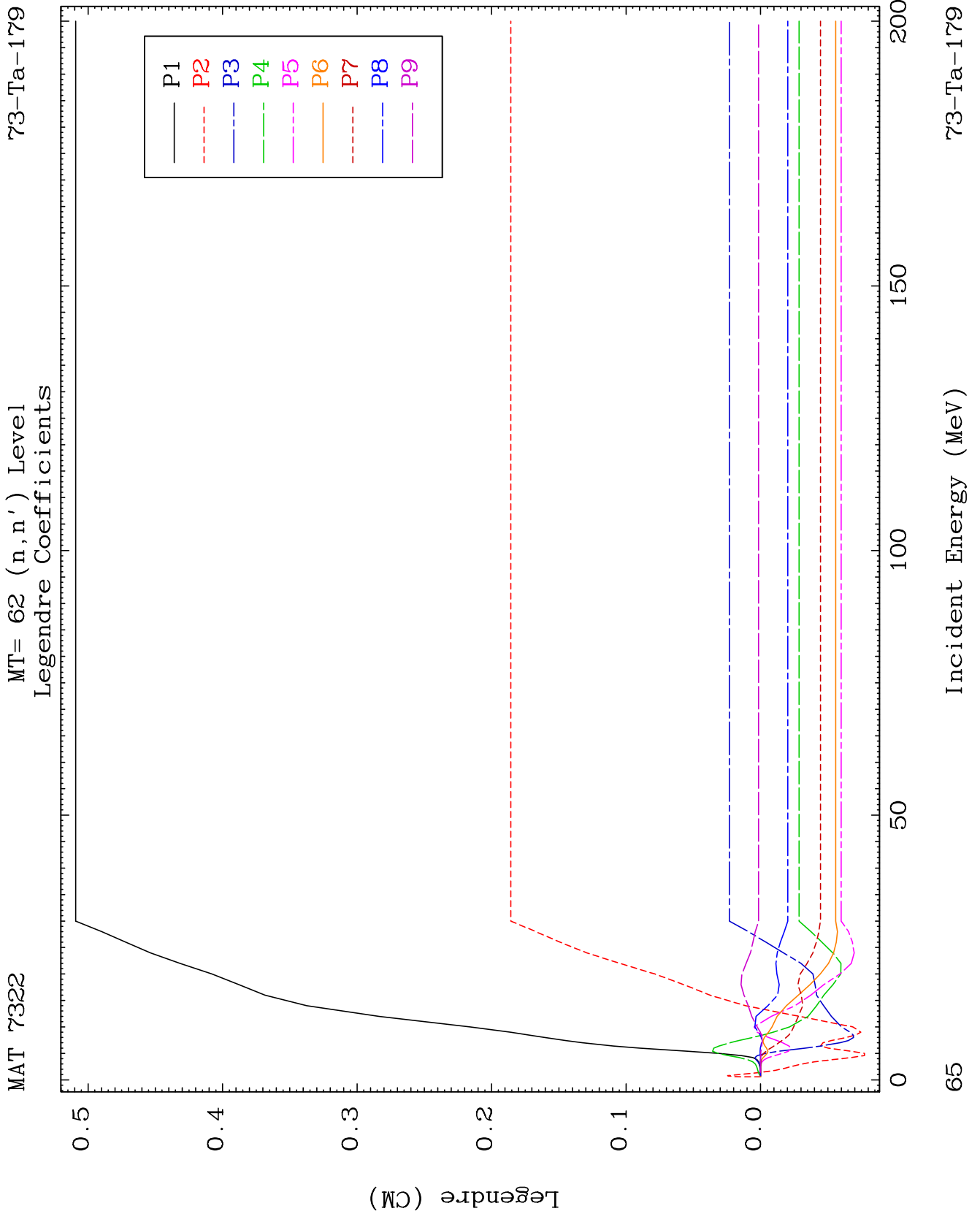


63

Incident Energy (MeV)

73-Ta-179

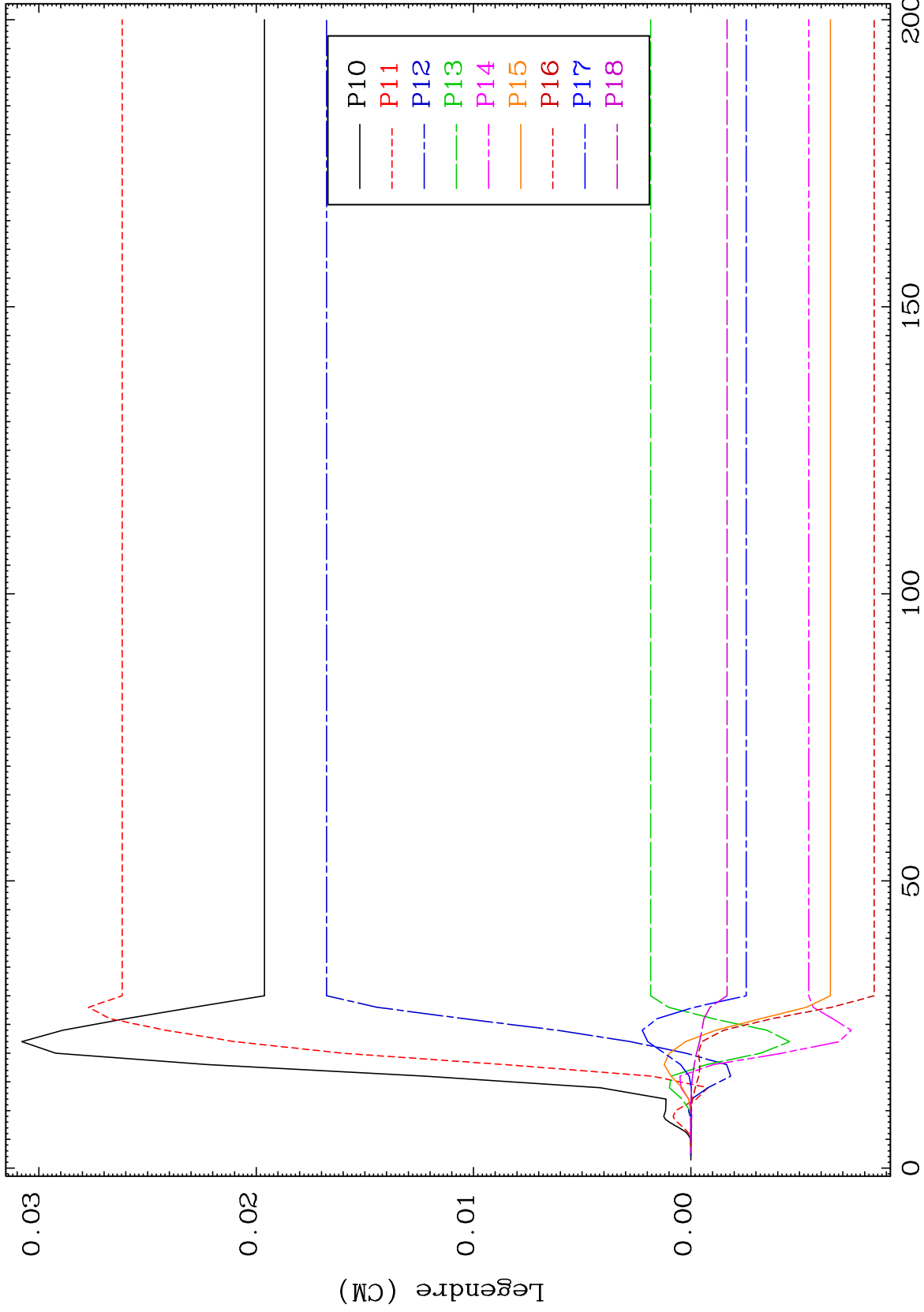




MAT 7322

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

73-Ta-179



66

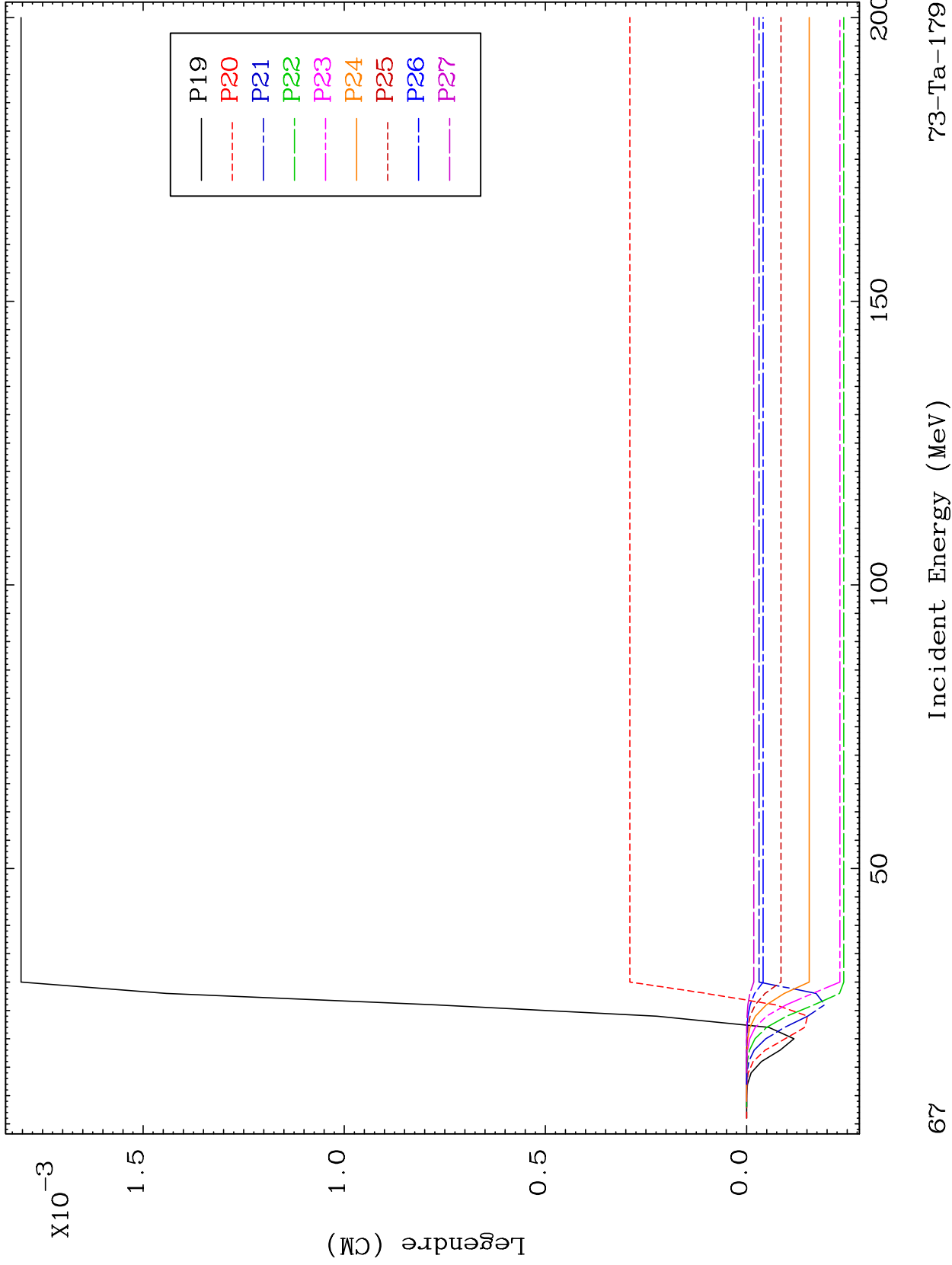
Incident Energy (MeV)

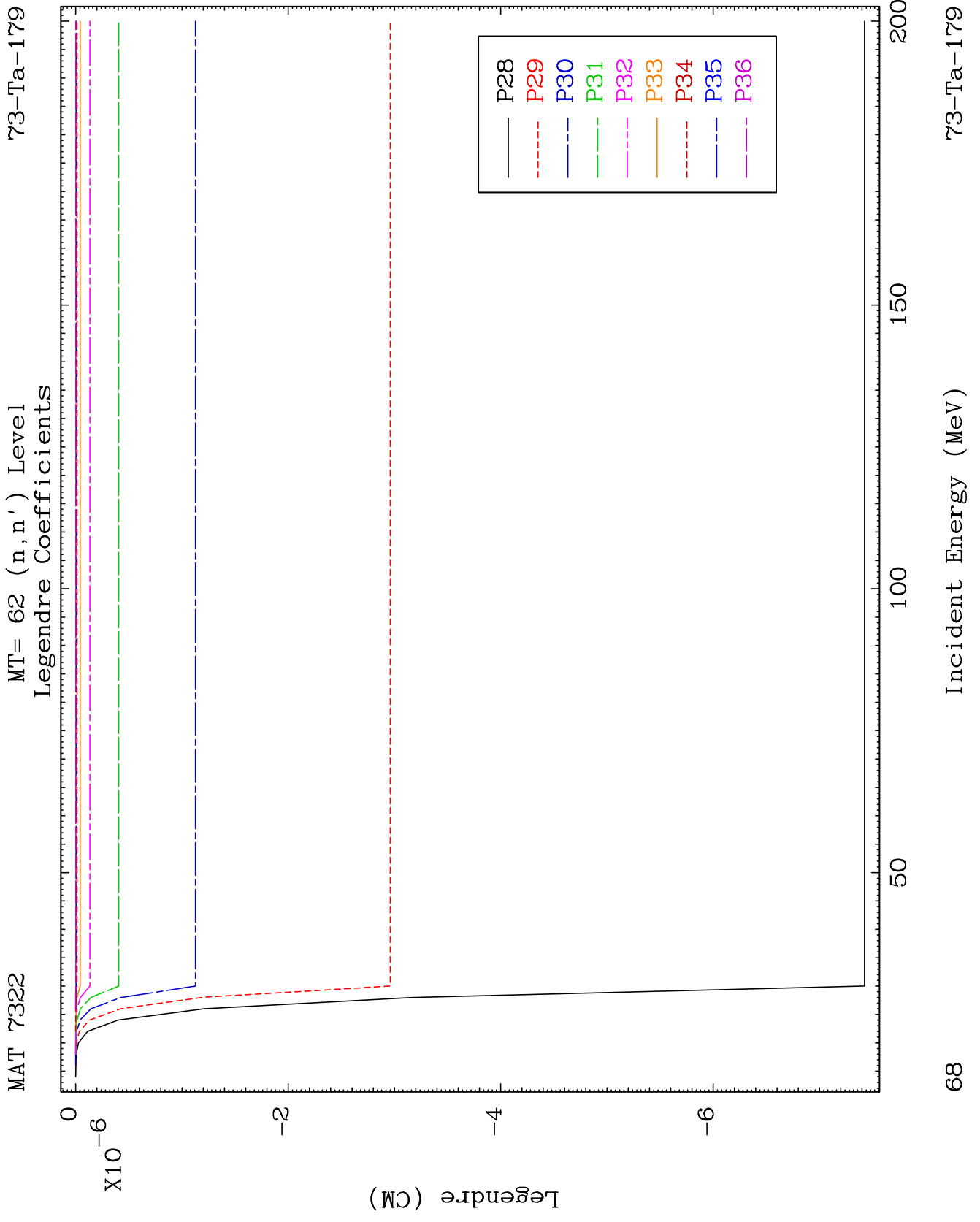
73-Ta-179

MAT 7322

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

73-Ta-179

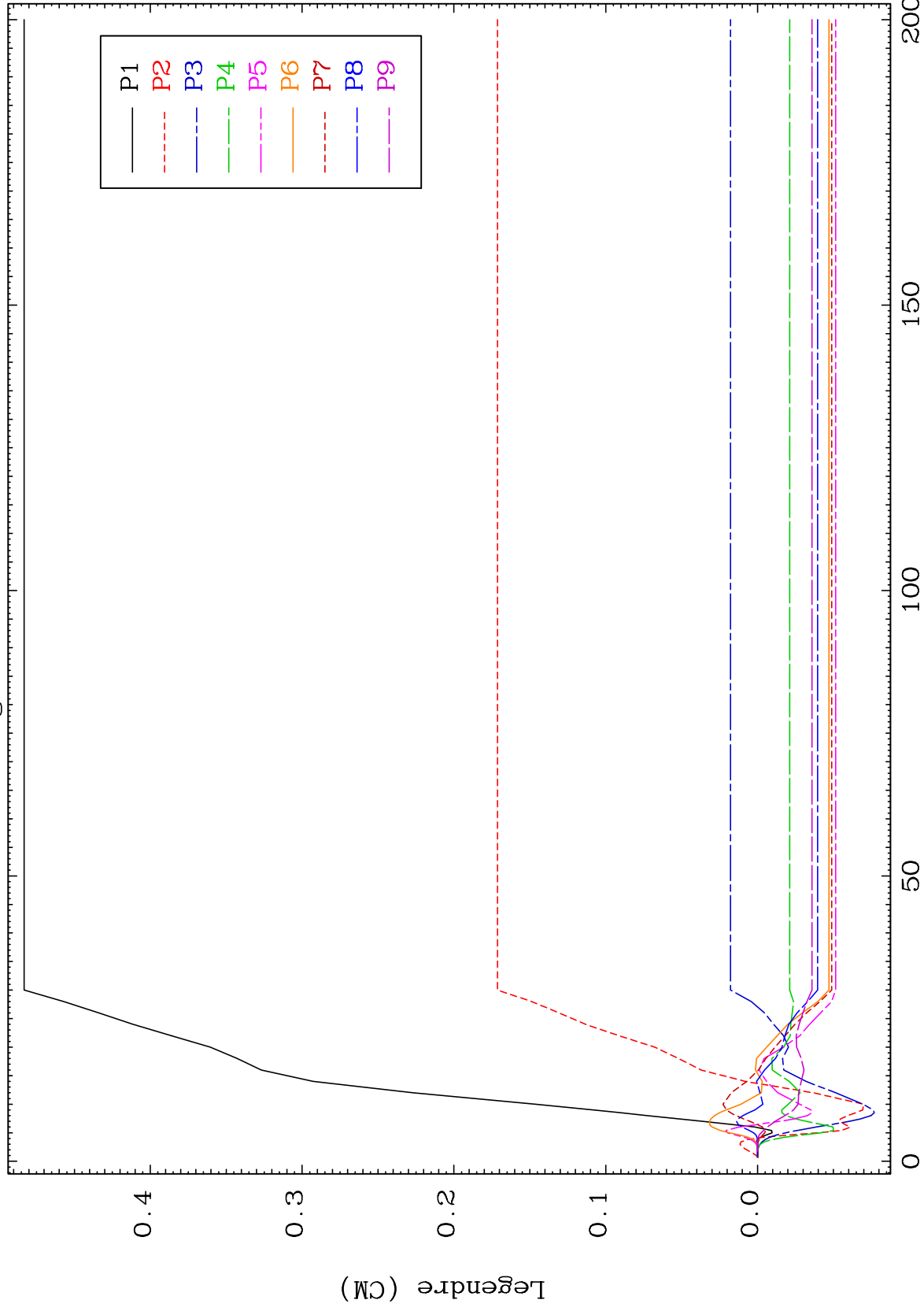




MAT 7322

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

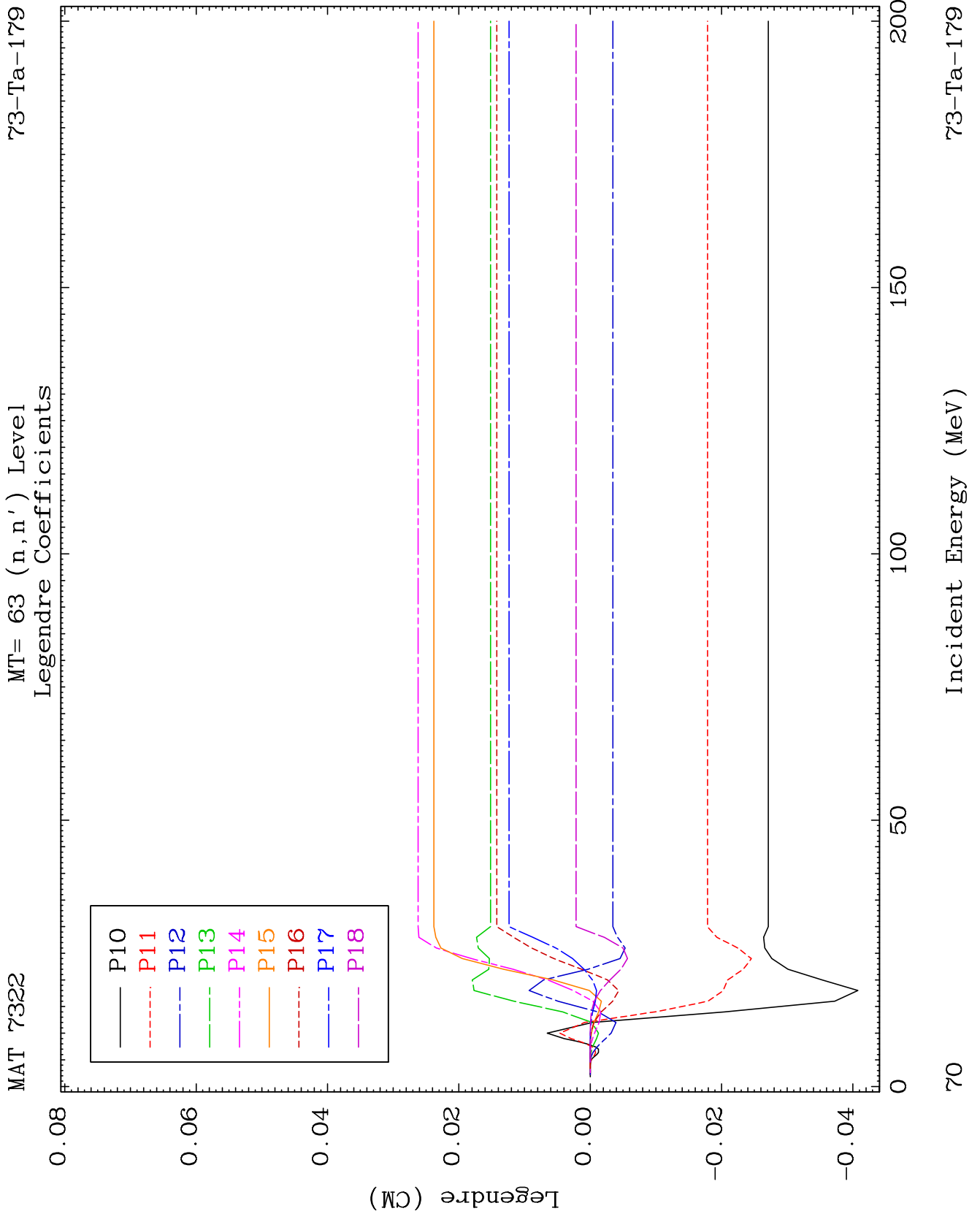
73-Ta-179



69

Incident Energy (MeV)

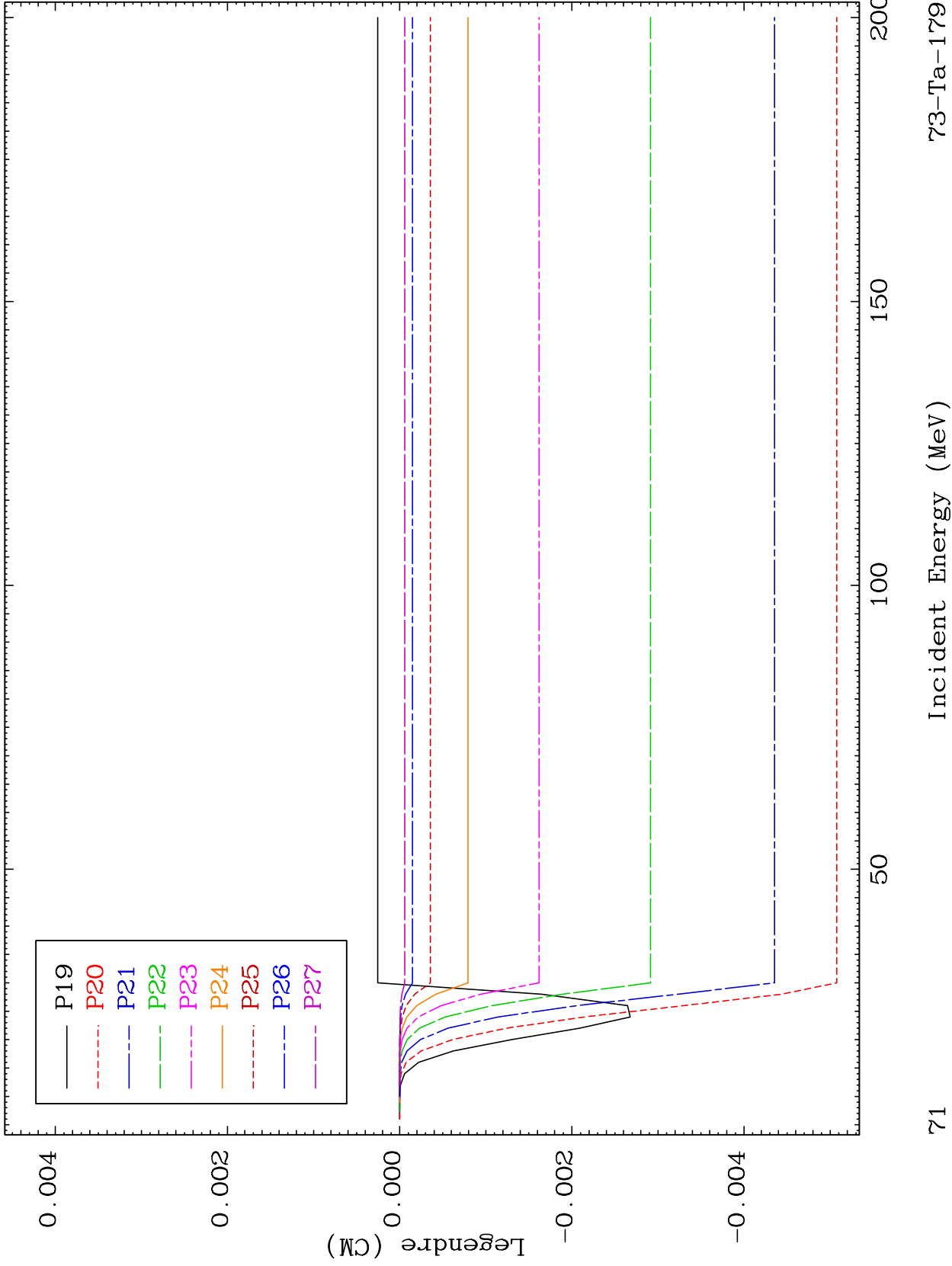
73-Ta-179



MAT 7322

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

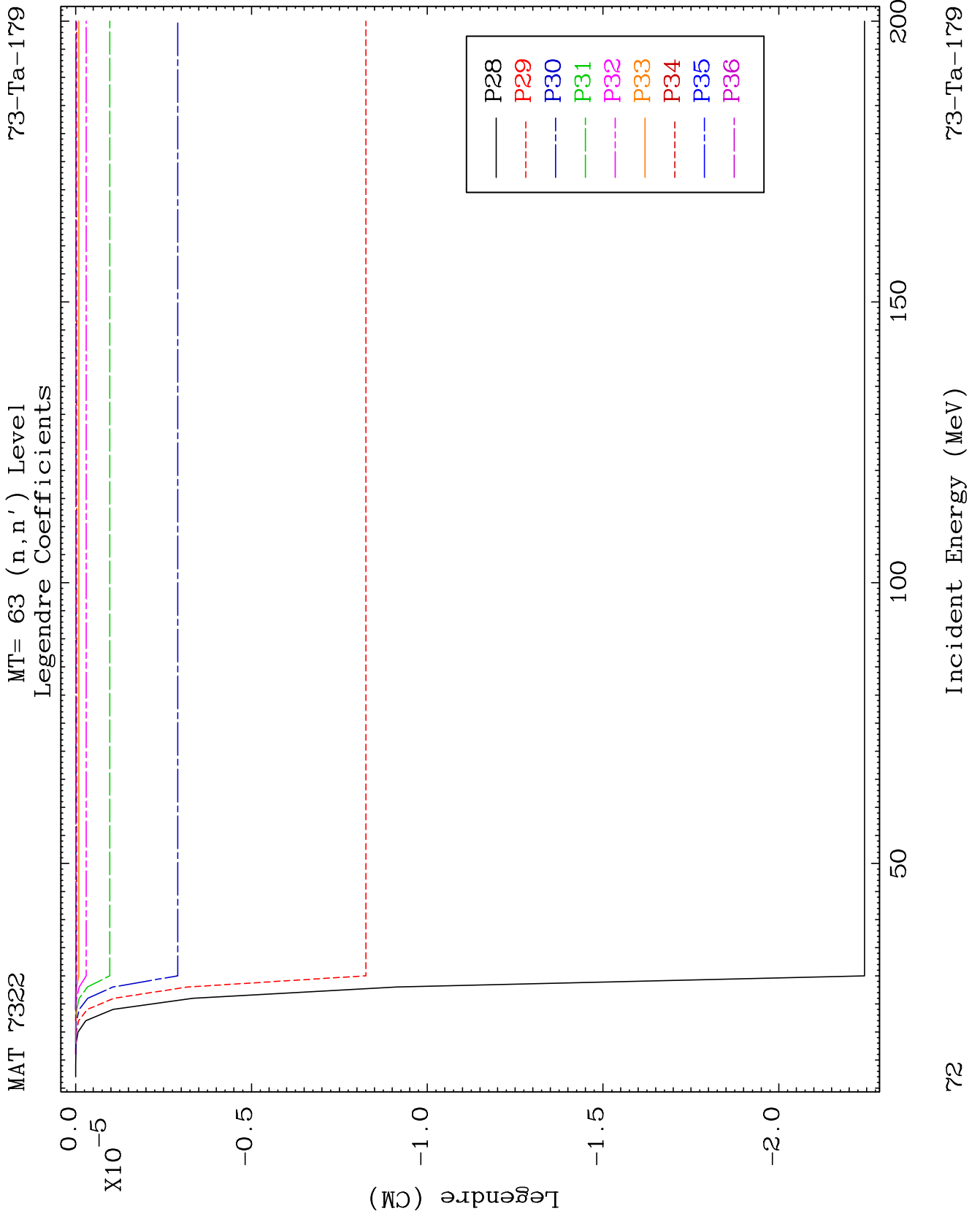
73-Ta-179



71

Incident Energy (MeV)

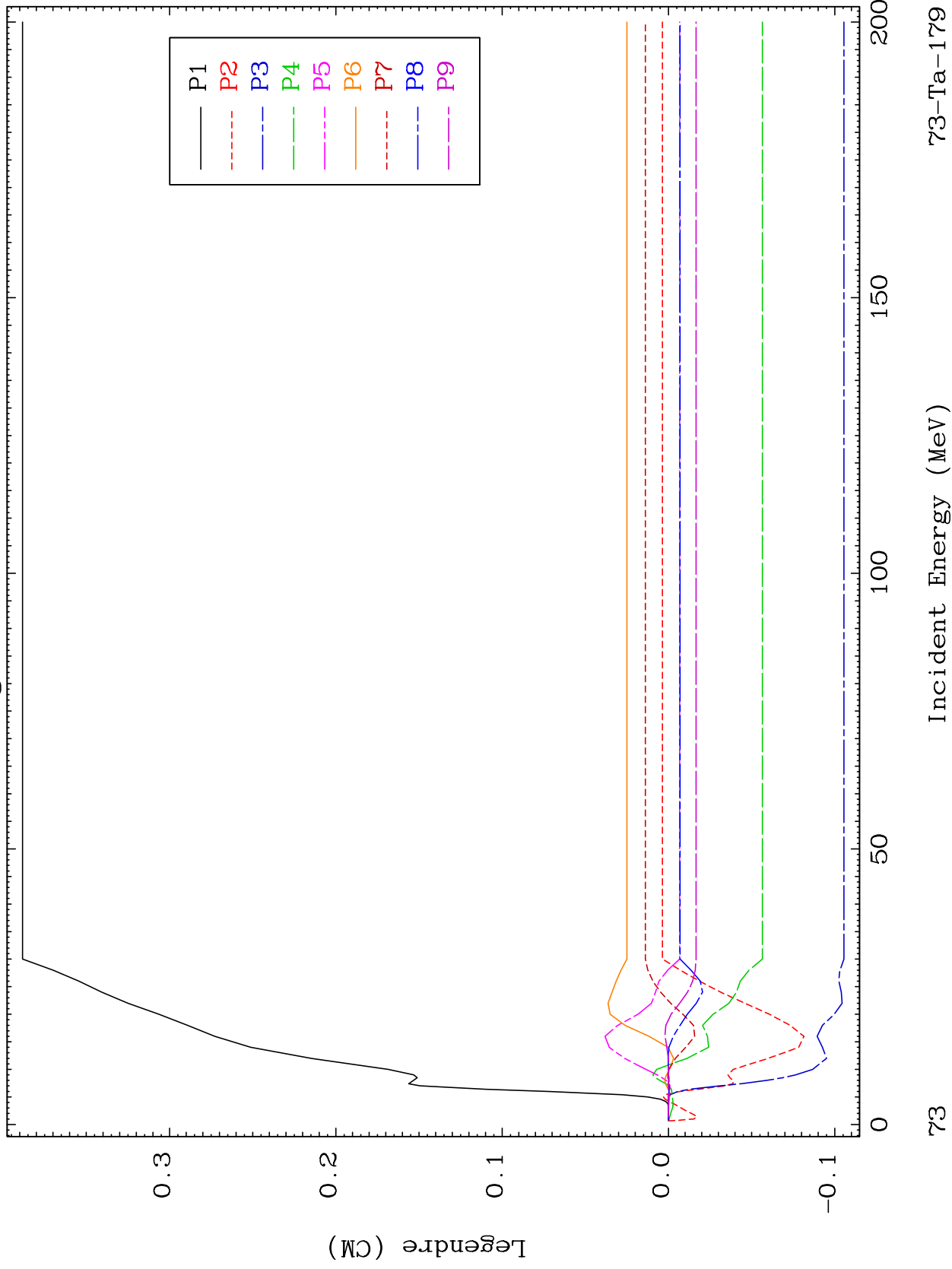
73-Ta-179



MAT 7322

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

73-Ta-179



73-Ta-179

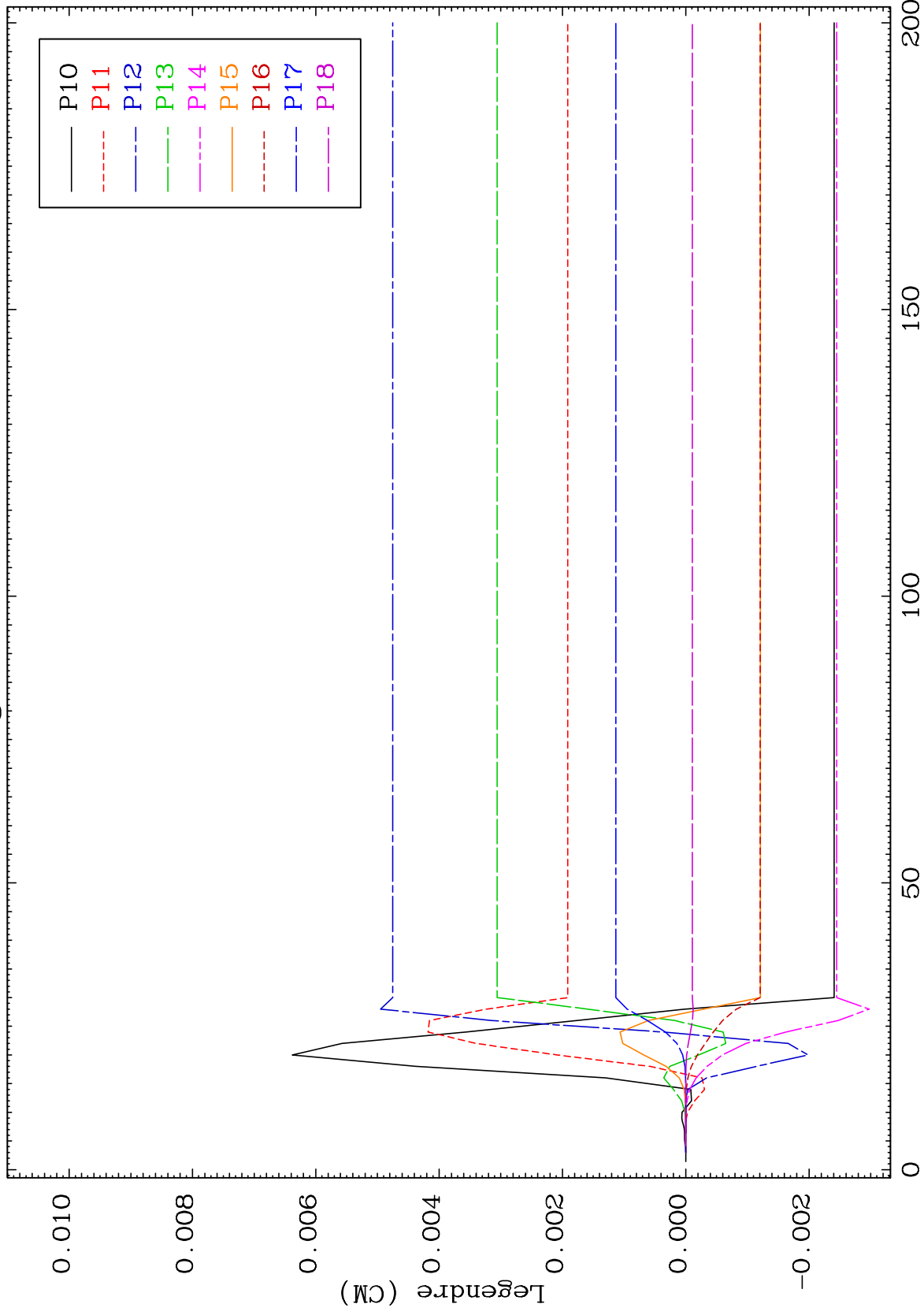
Incident Energy (MeV)

73

MAT 7322

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

73-Ta-179



74

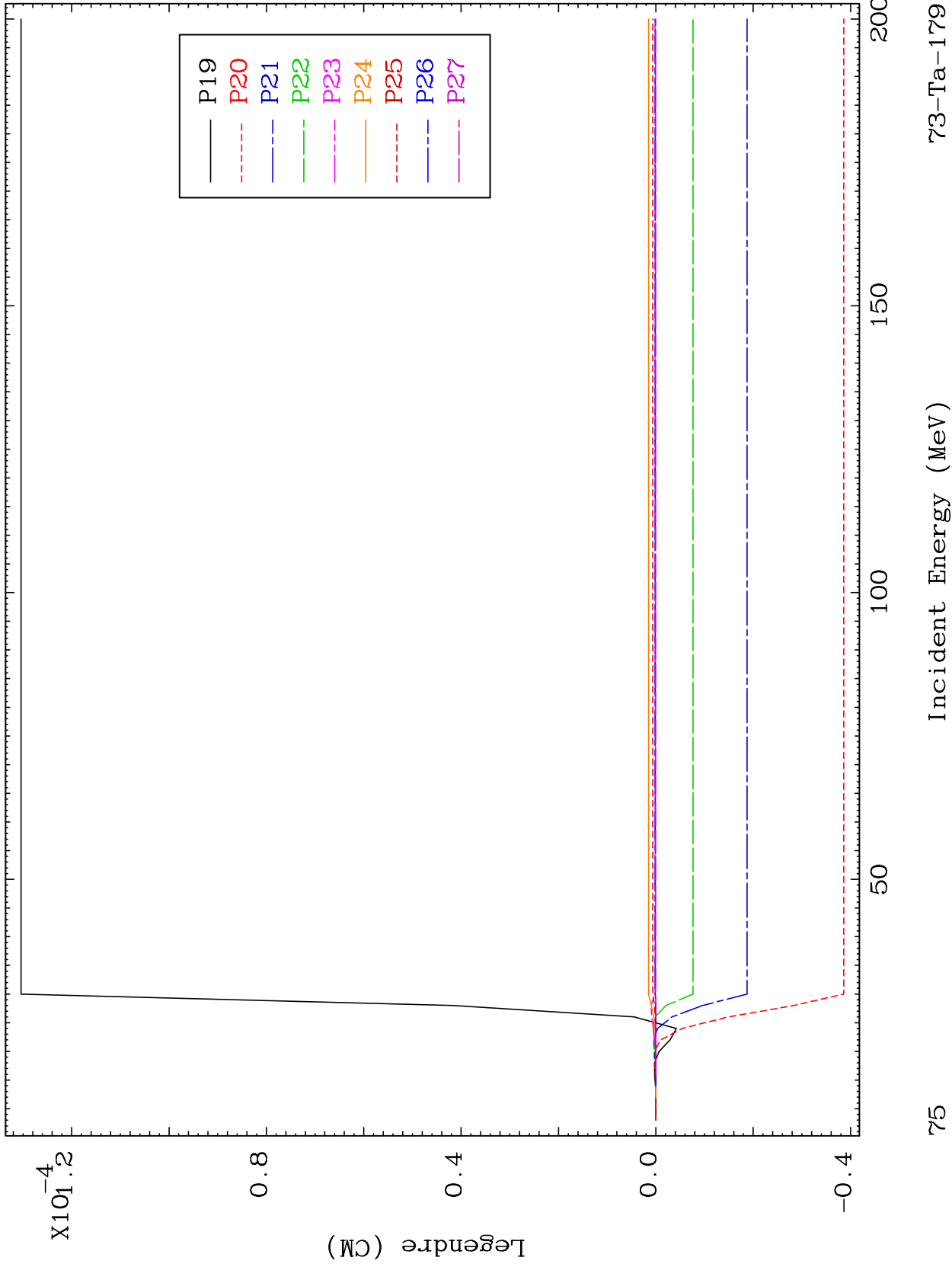
Incident Energy (MeV)

73-Ta-179

MAT 7322

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

73-Ta-179



75

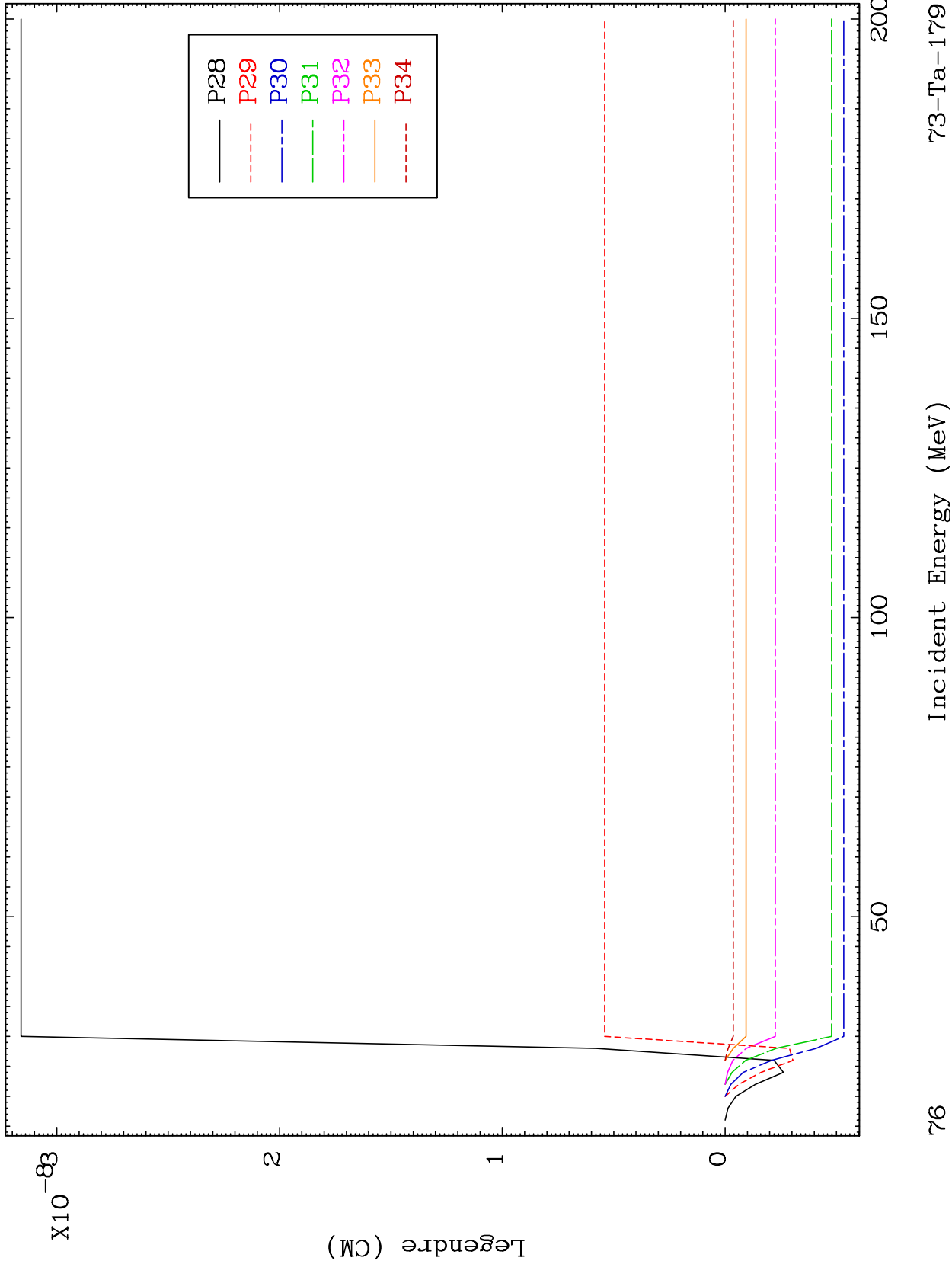
Incident Energy (MeV)

73-Ta-179

MAT 7322

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

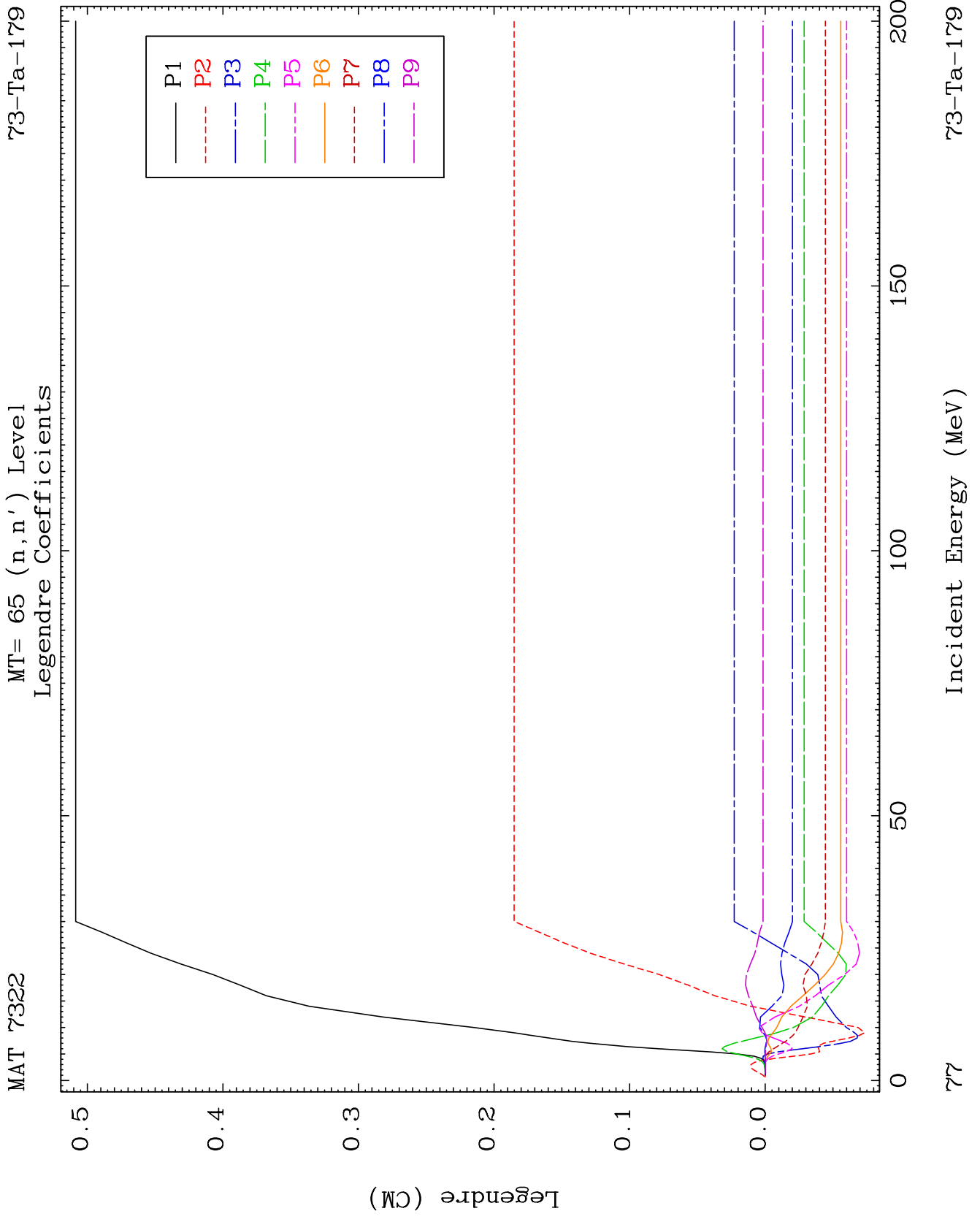
73-Ta-179

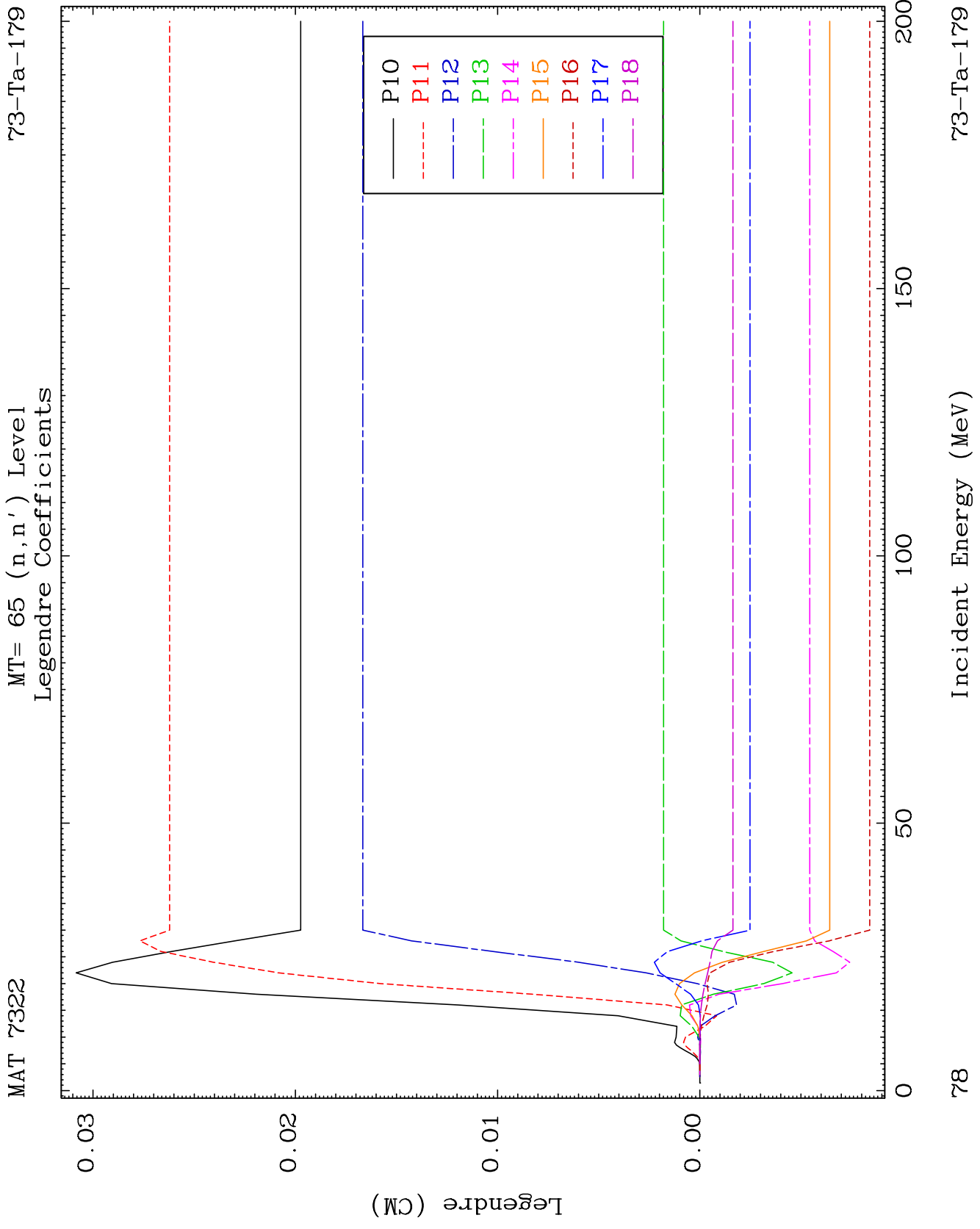


76

Incident Energy (MeV)

73-Ta-179

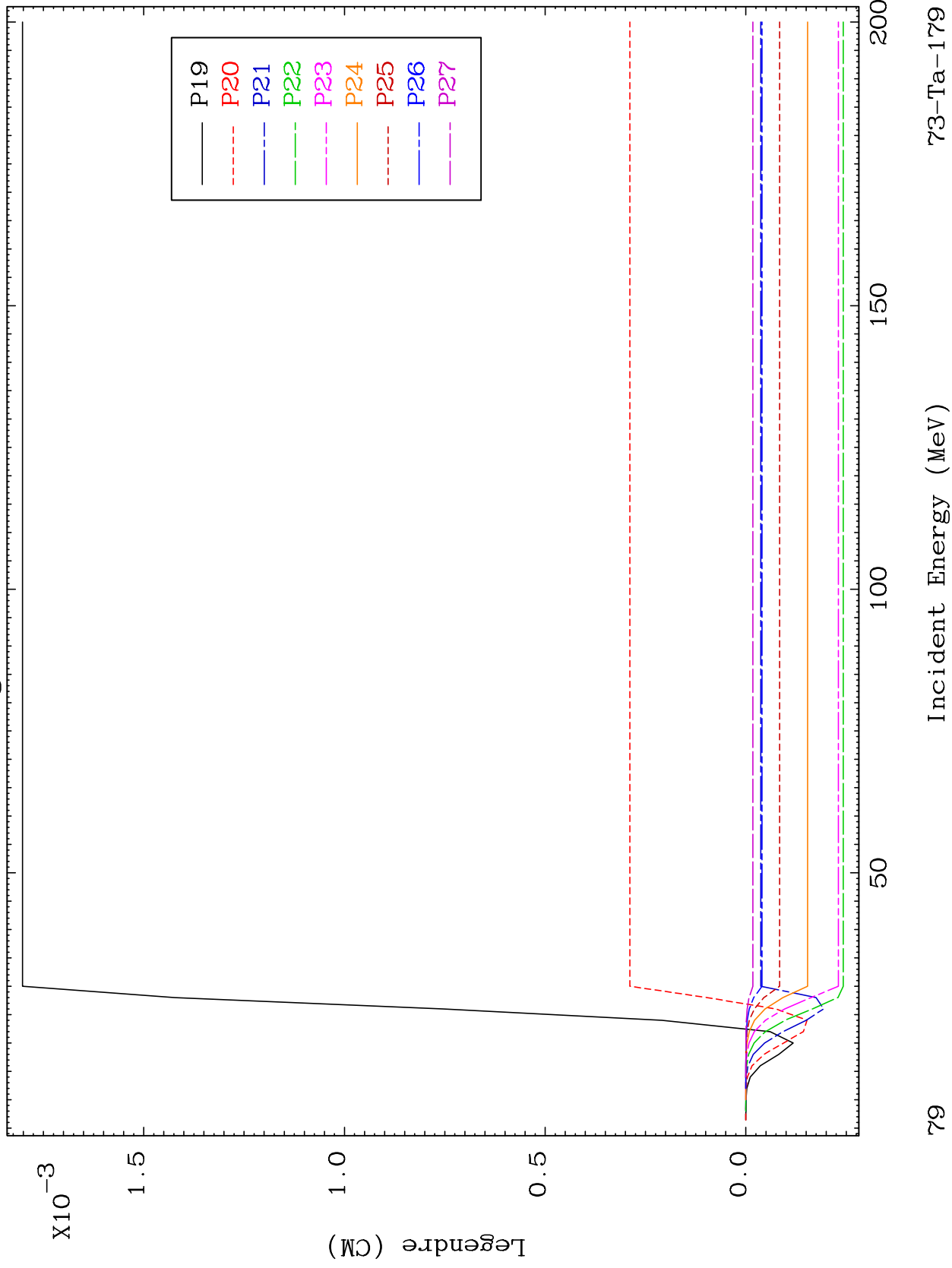




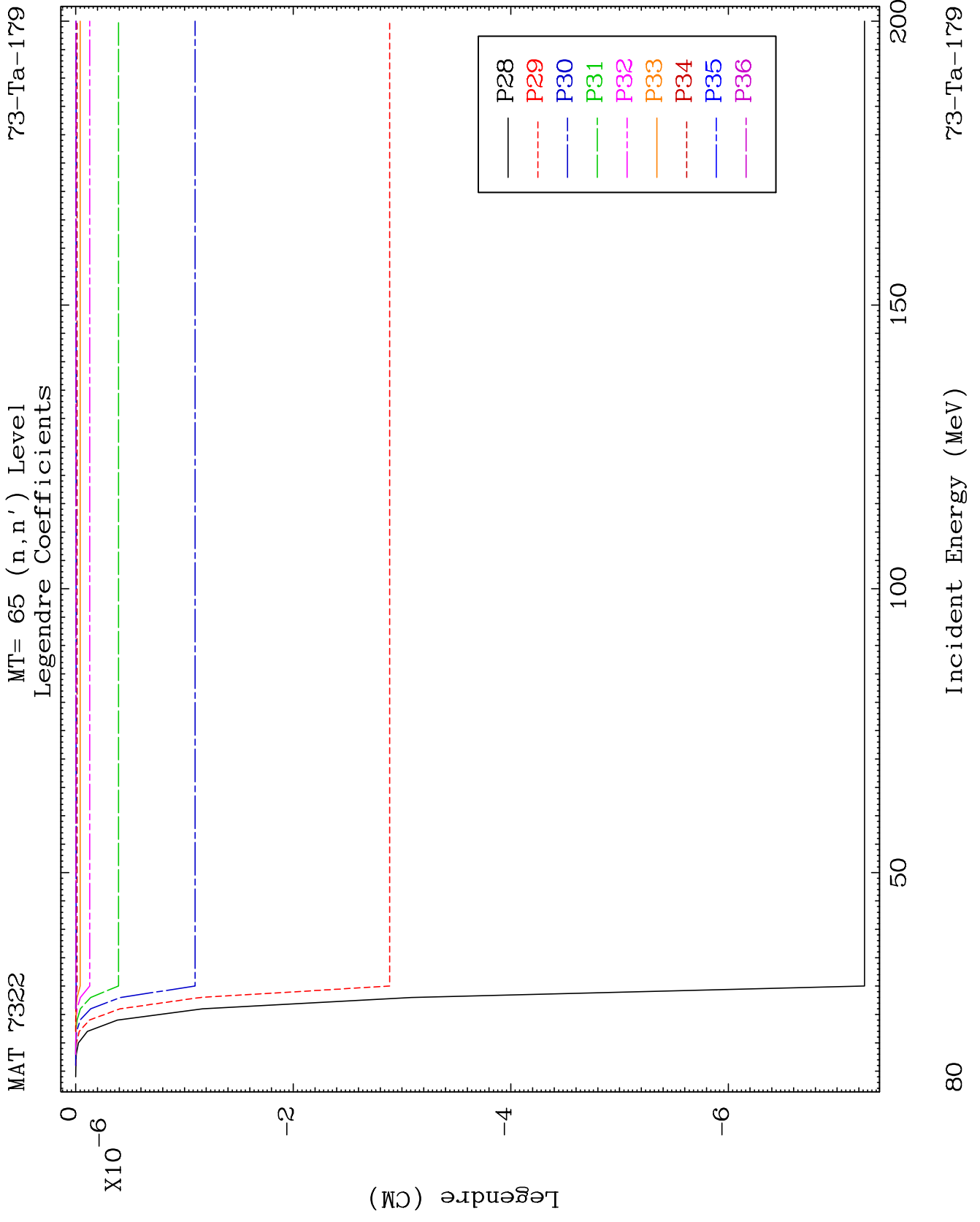
MAT 7322

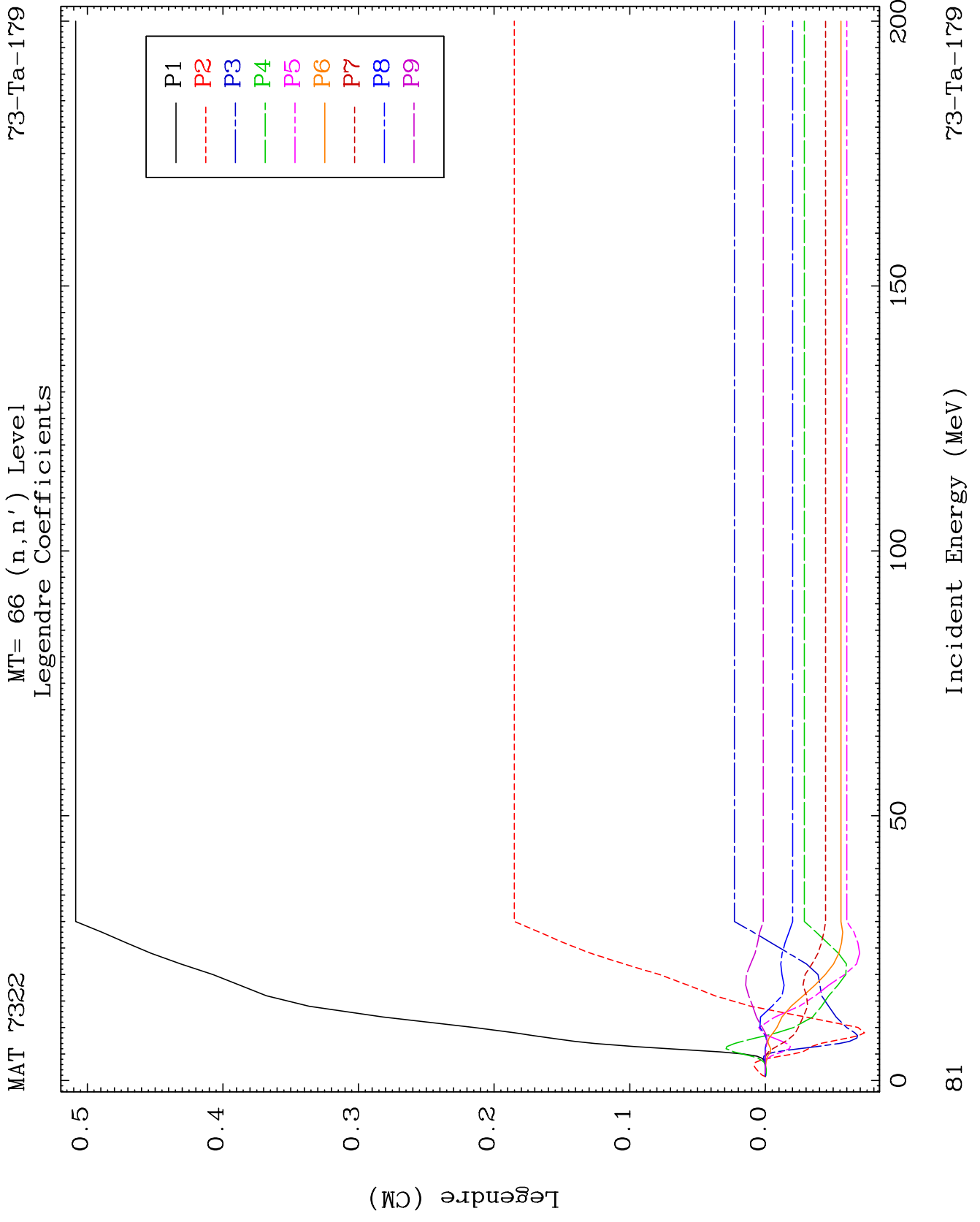
MT= 65 (n,n') Level
Legendre Coefficients

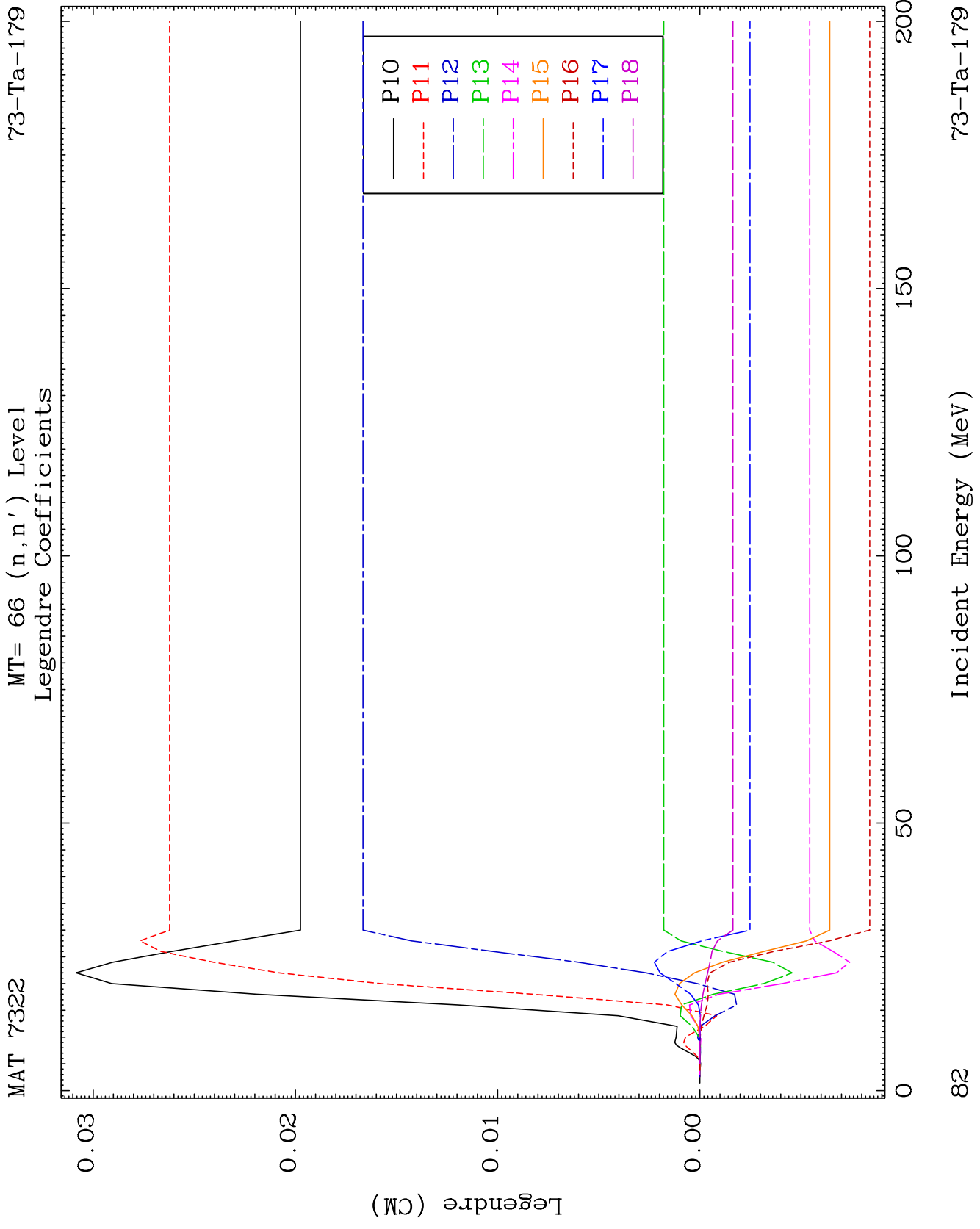
73-Ta-179



79



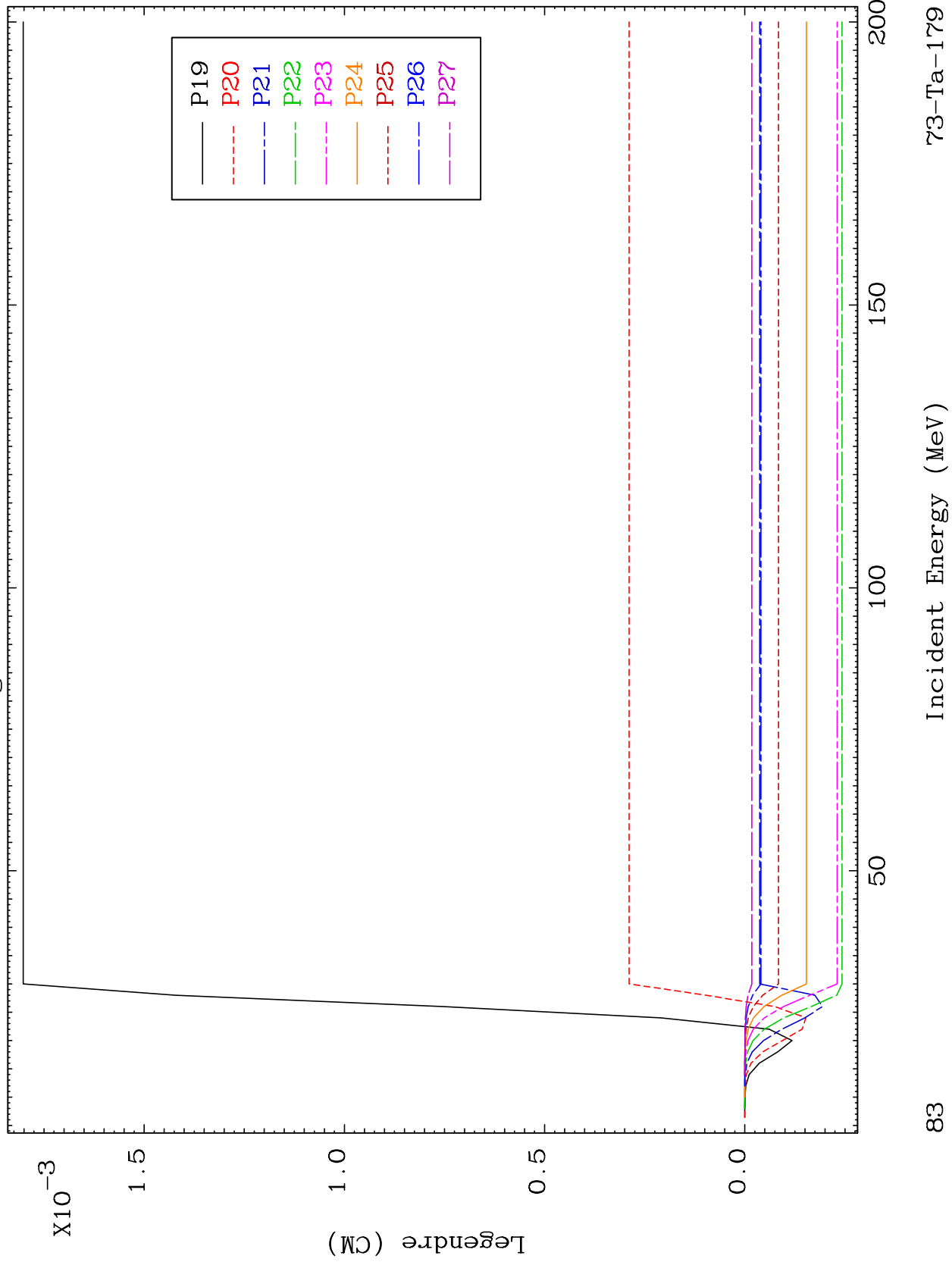




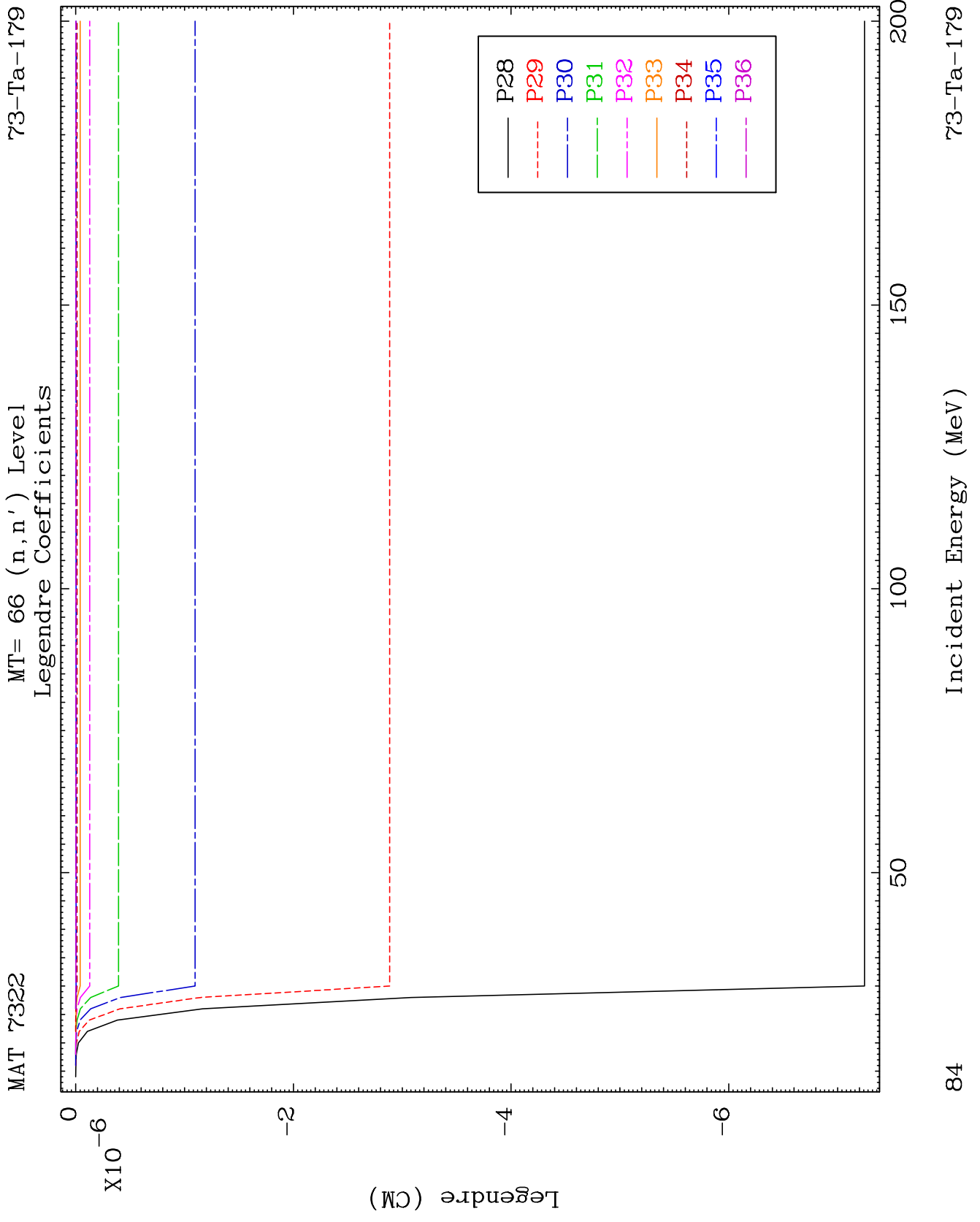
MAT 7322

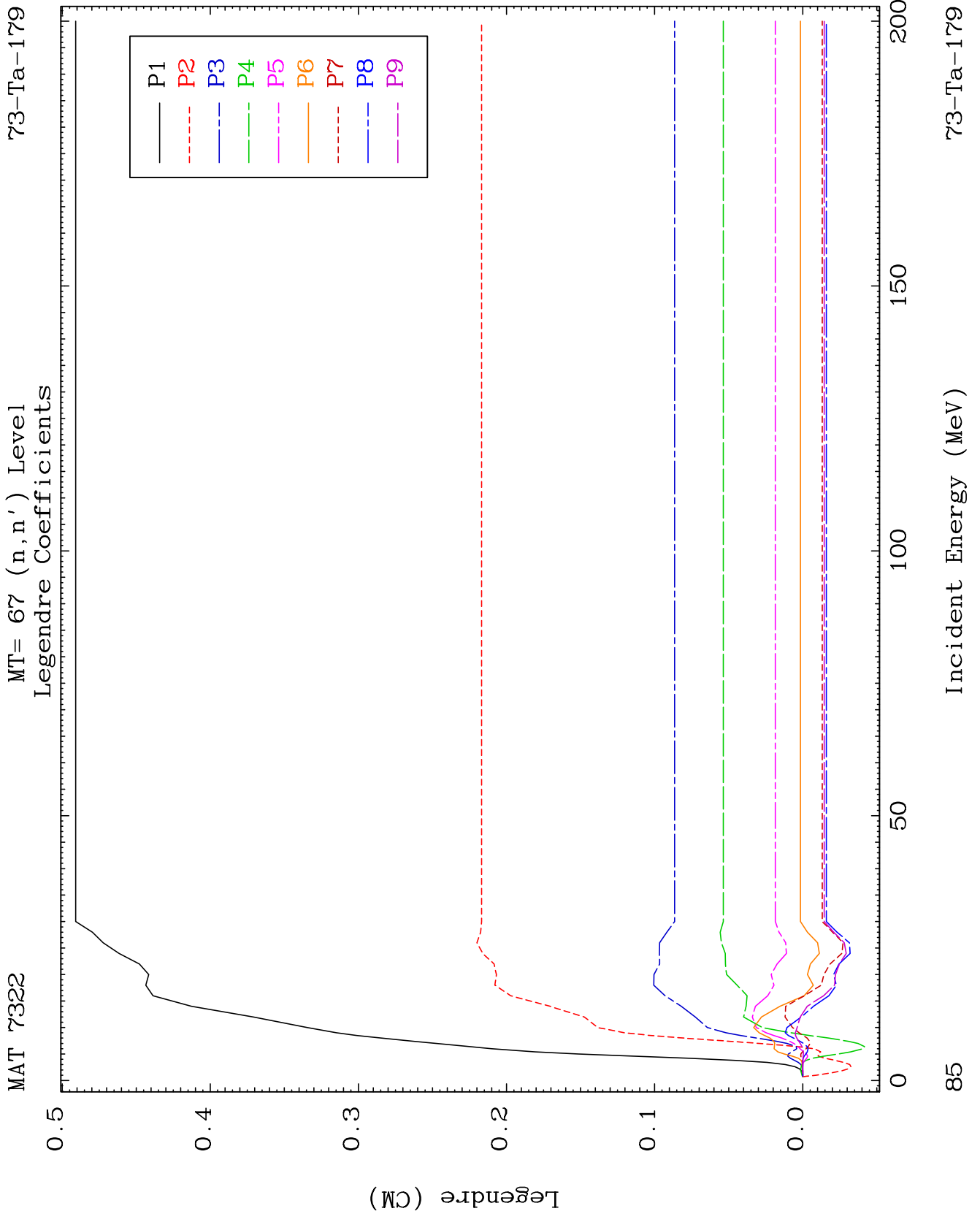
MT= 66 (n,n') Level
Legendre Coefficients

73-Ta-179



83

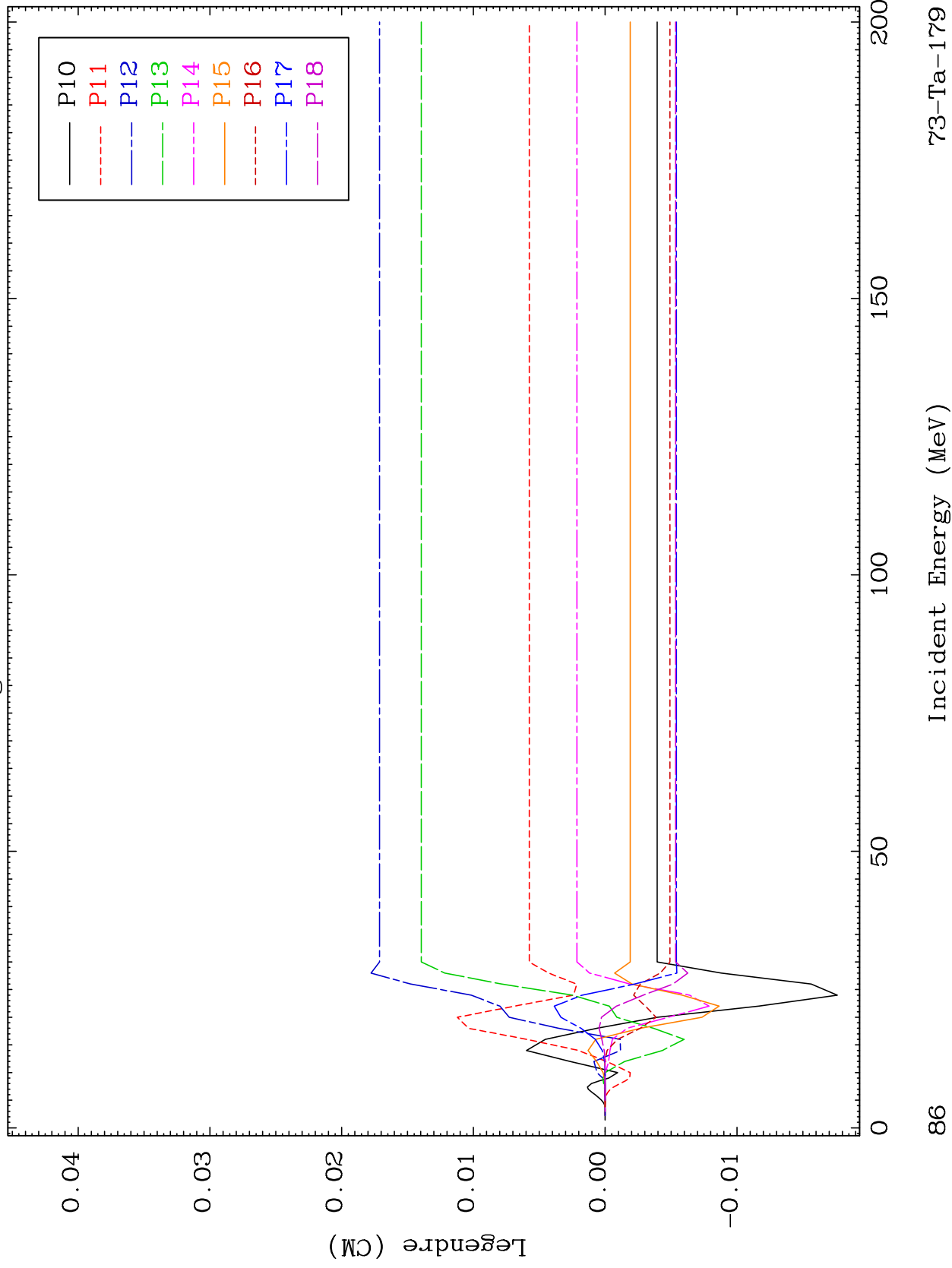




MAT 7322

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

73-Ta-179



73-Ta-179

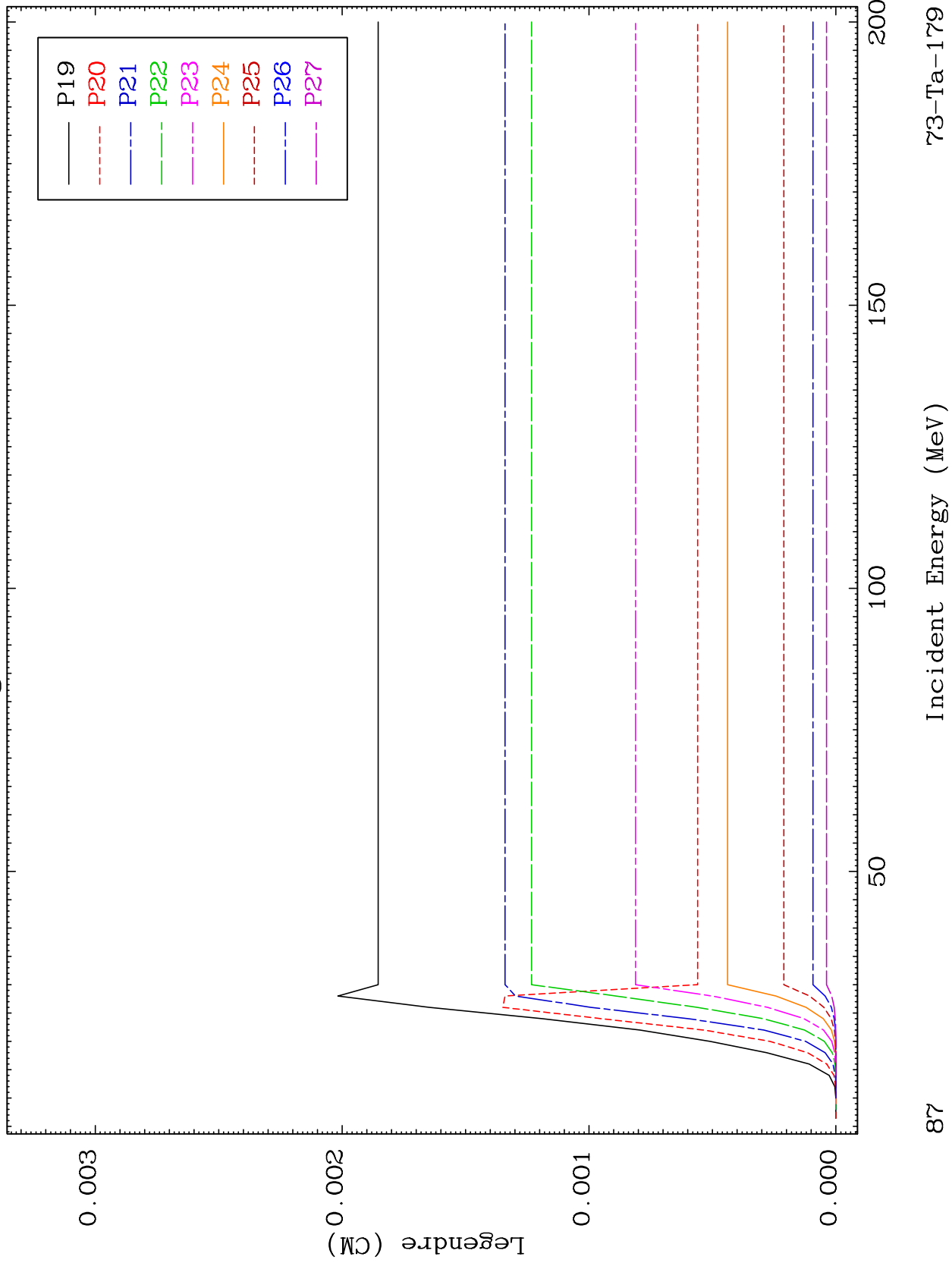
Incident Energy (MeV)

86

MAT 7322

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

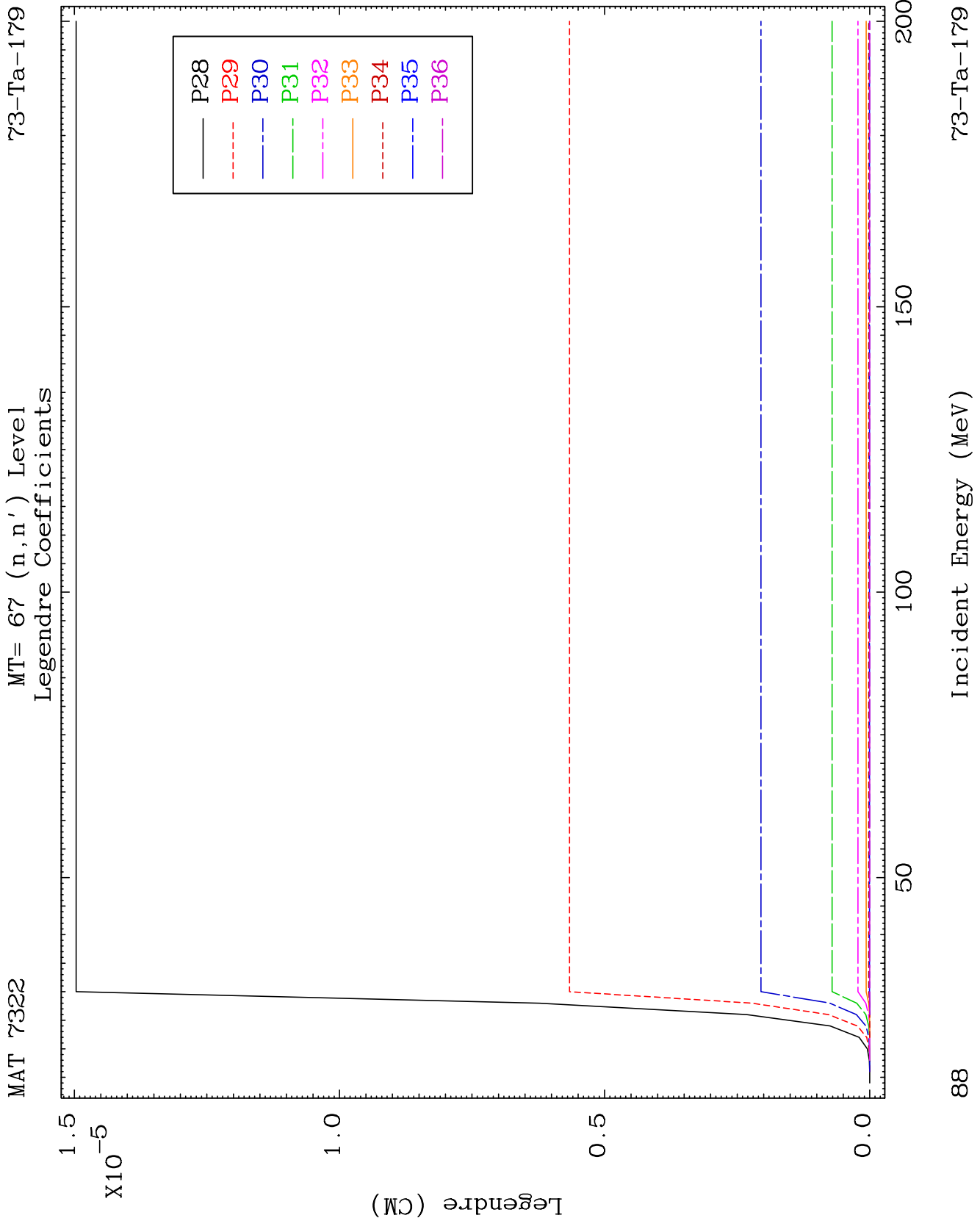
73-Ta-179

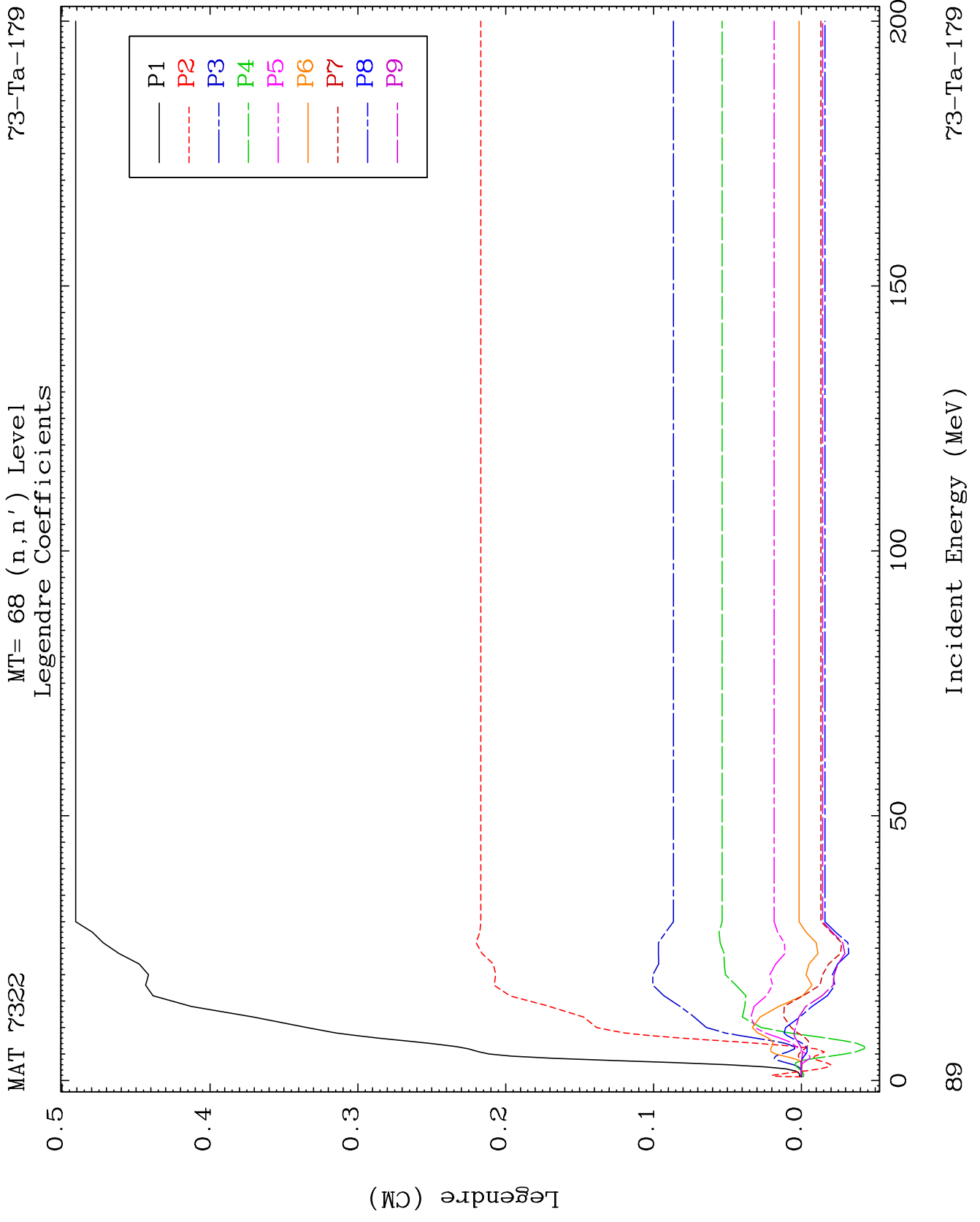


87

Incident Energy (MeV)

73-Ta-179

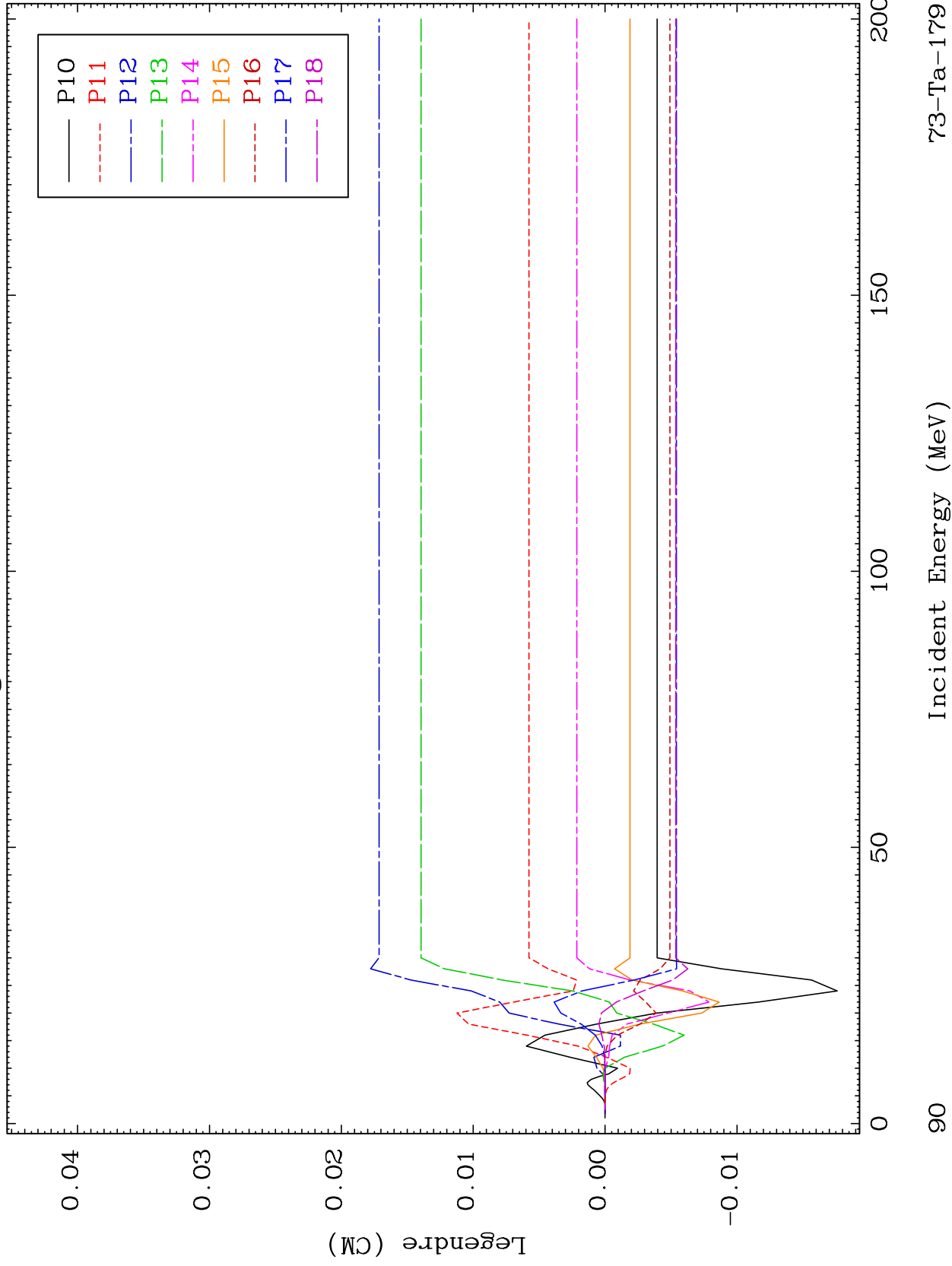




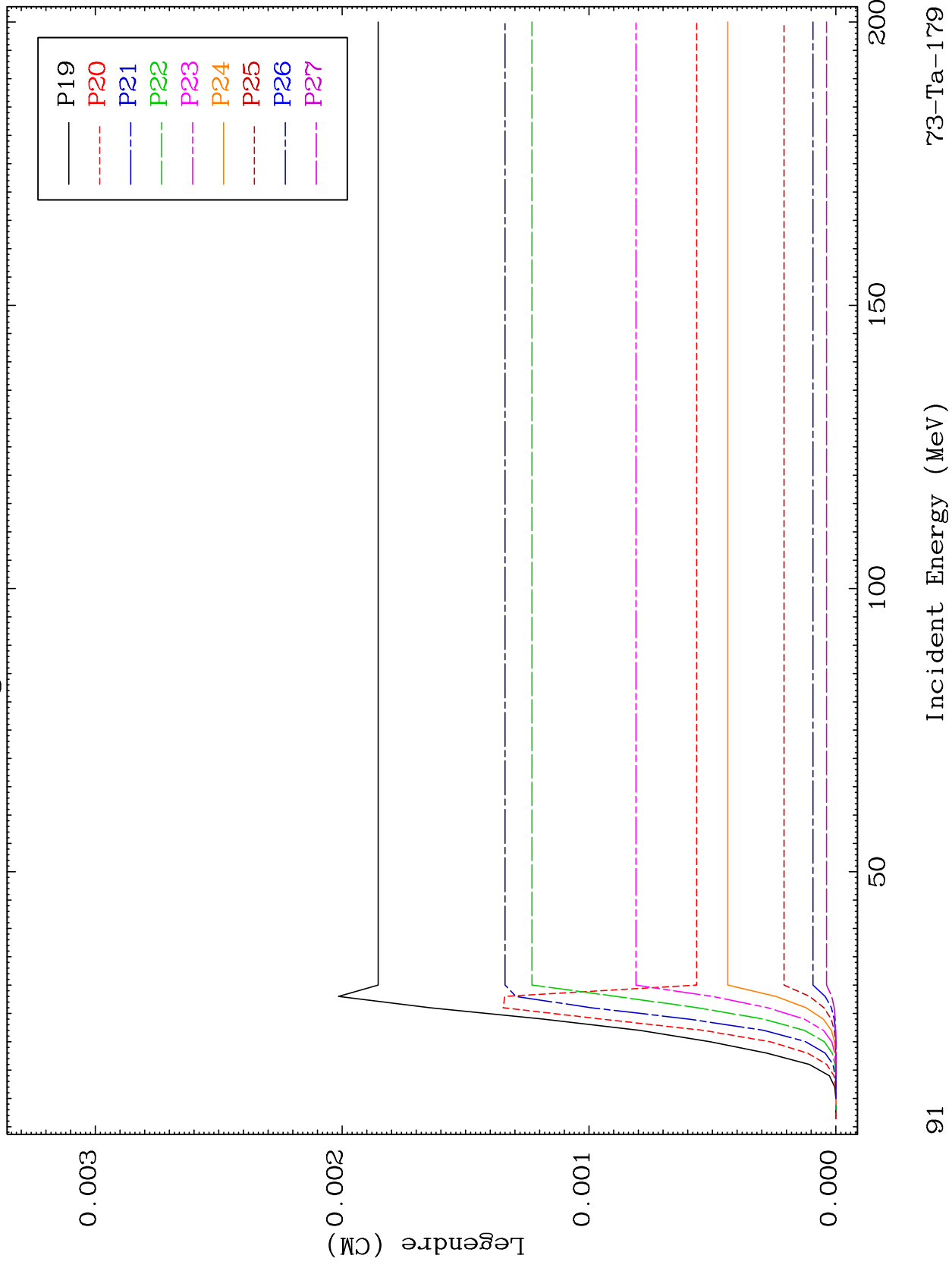
MAT 7322

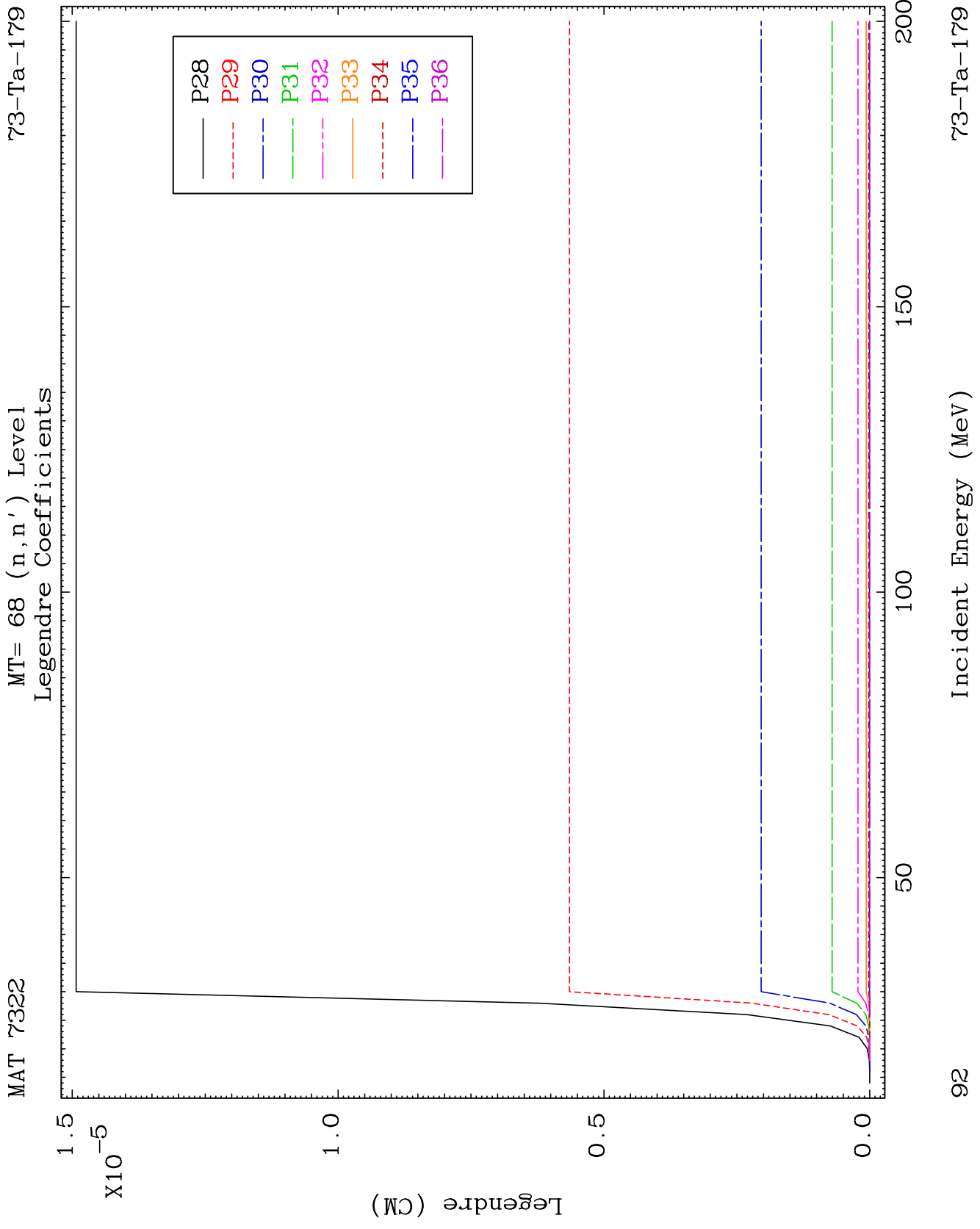
MT= 68 (n,n') Level
Legendre Coefficients

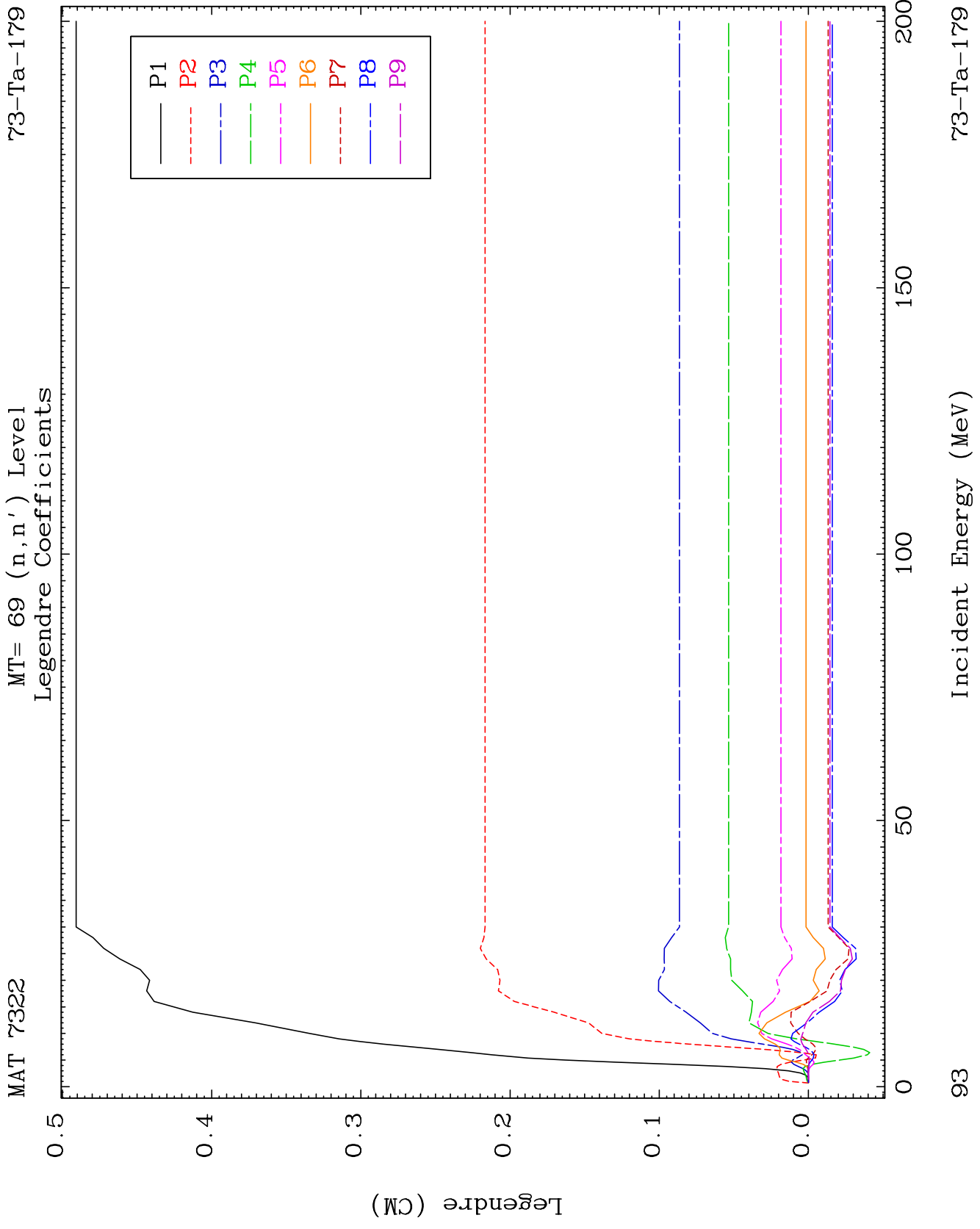
73-Ta-179



73-Ta-179



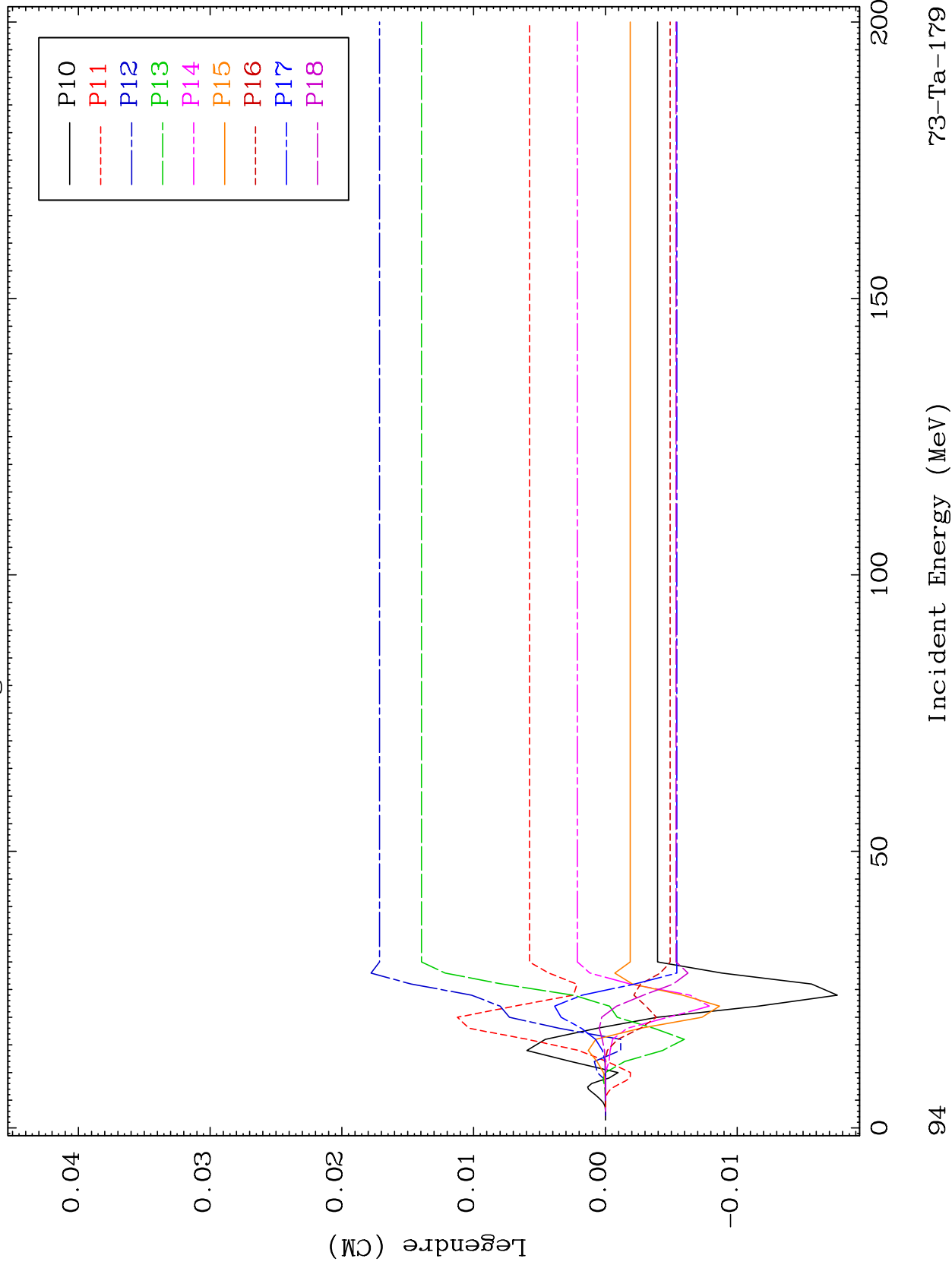




MAT 7322

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

73-Ta-179



94

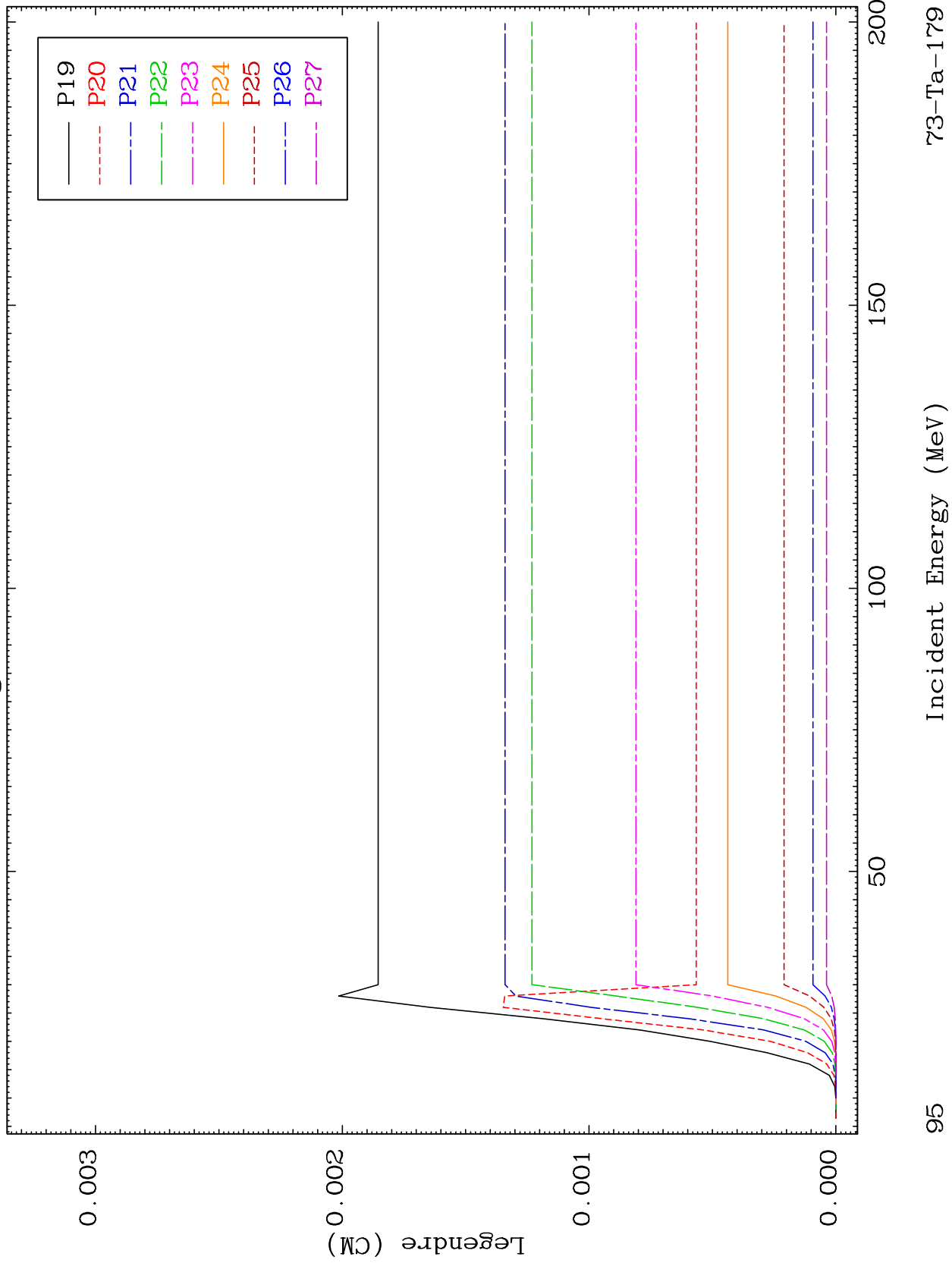
Incident Energy (MeV)

73-Ta-179

MAT 7322

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

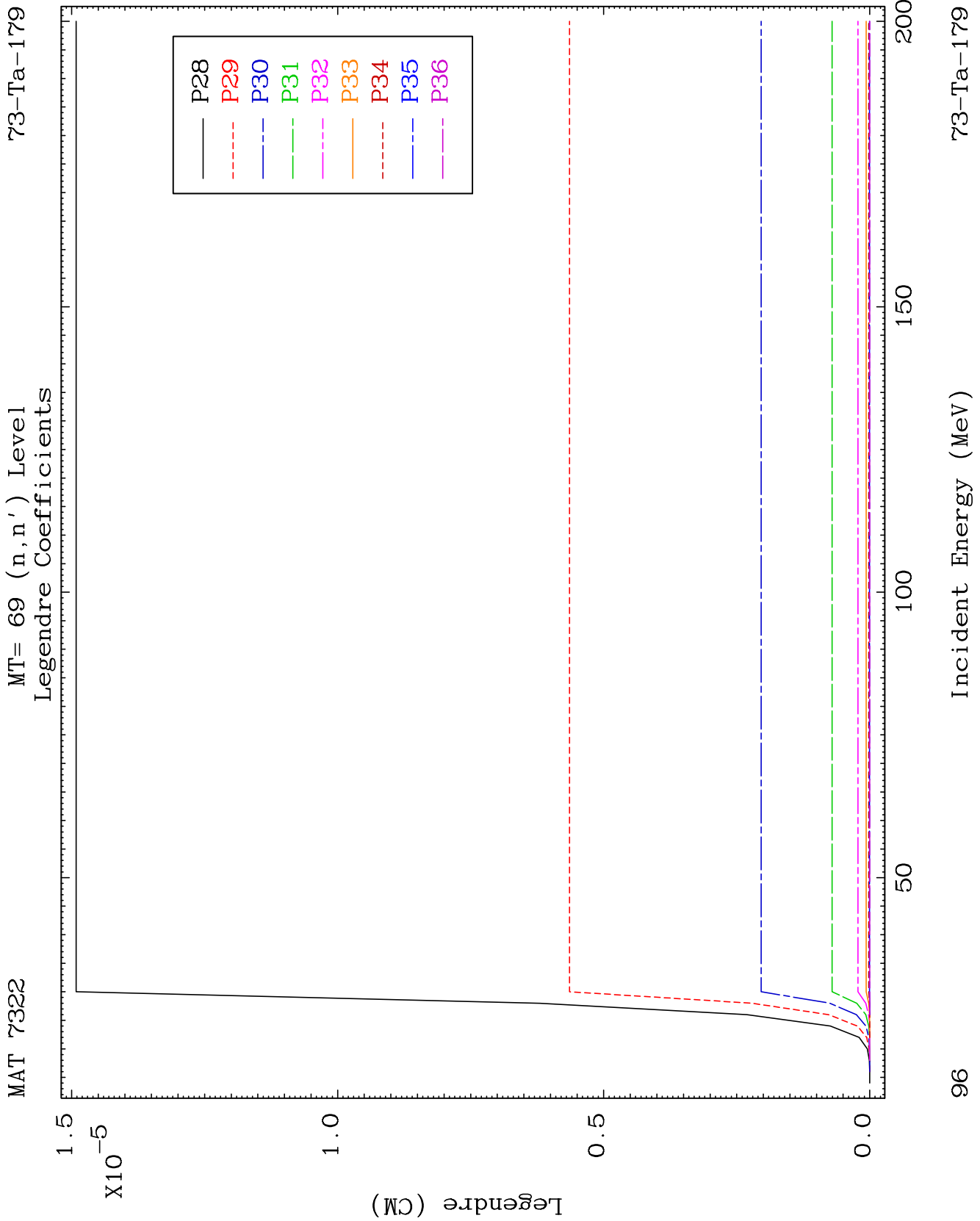
73-Ta-179

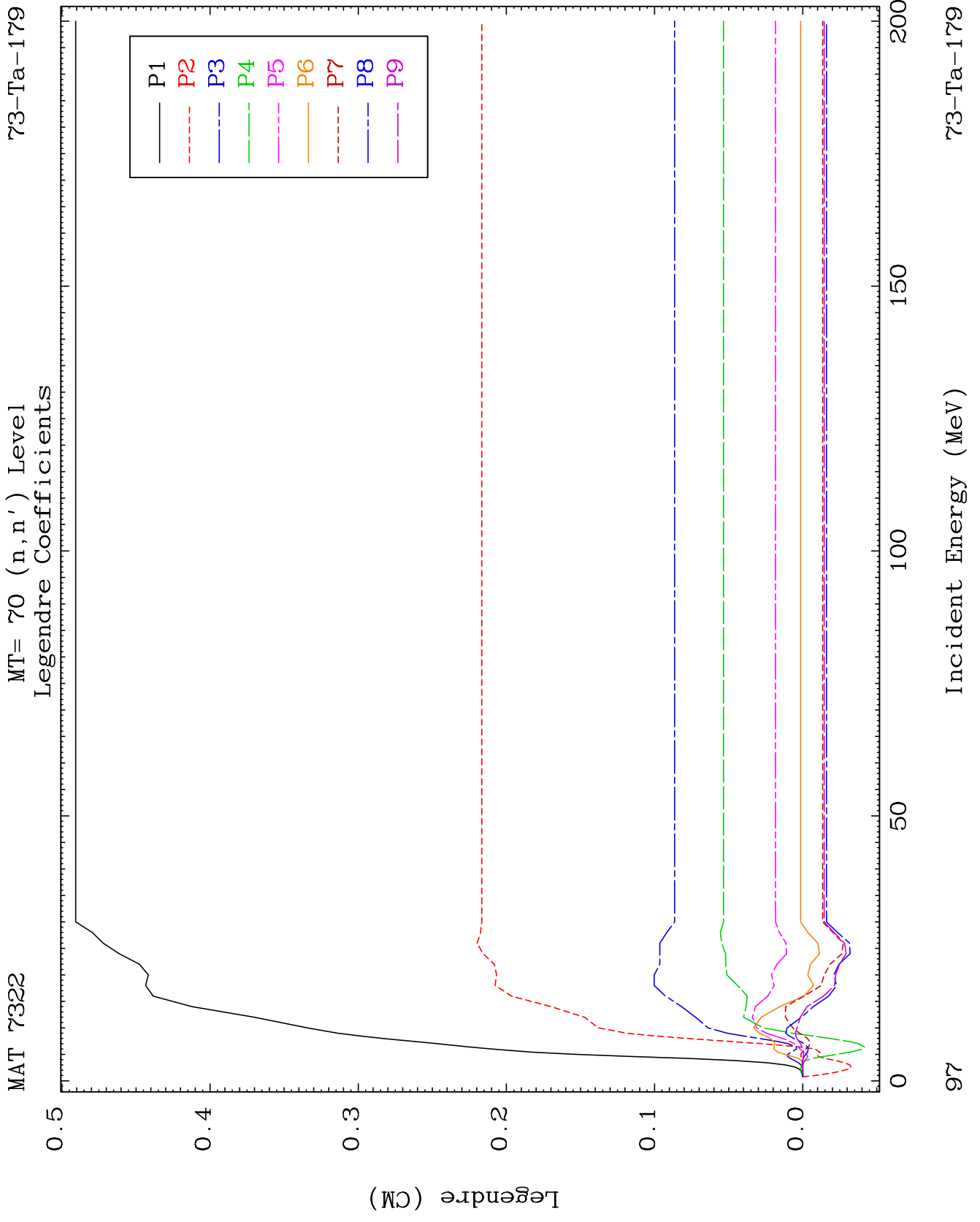


95

Incident Energy (MeV)

73-Ta-179

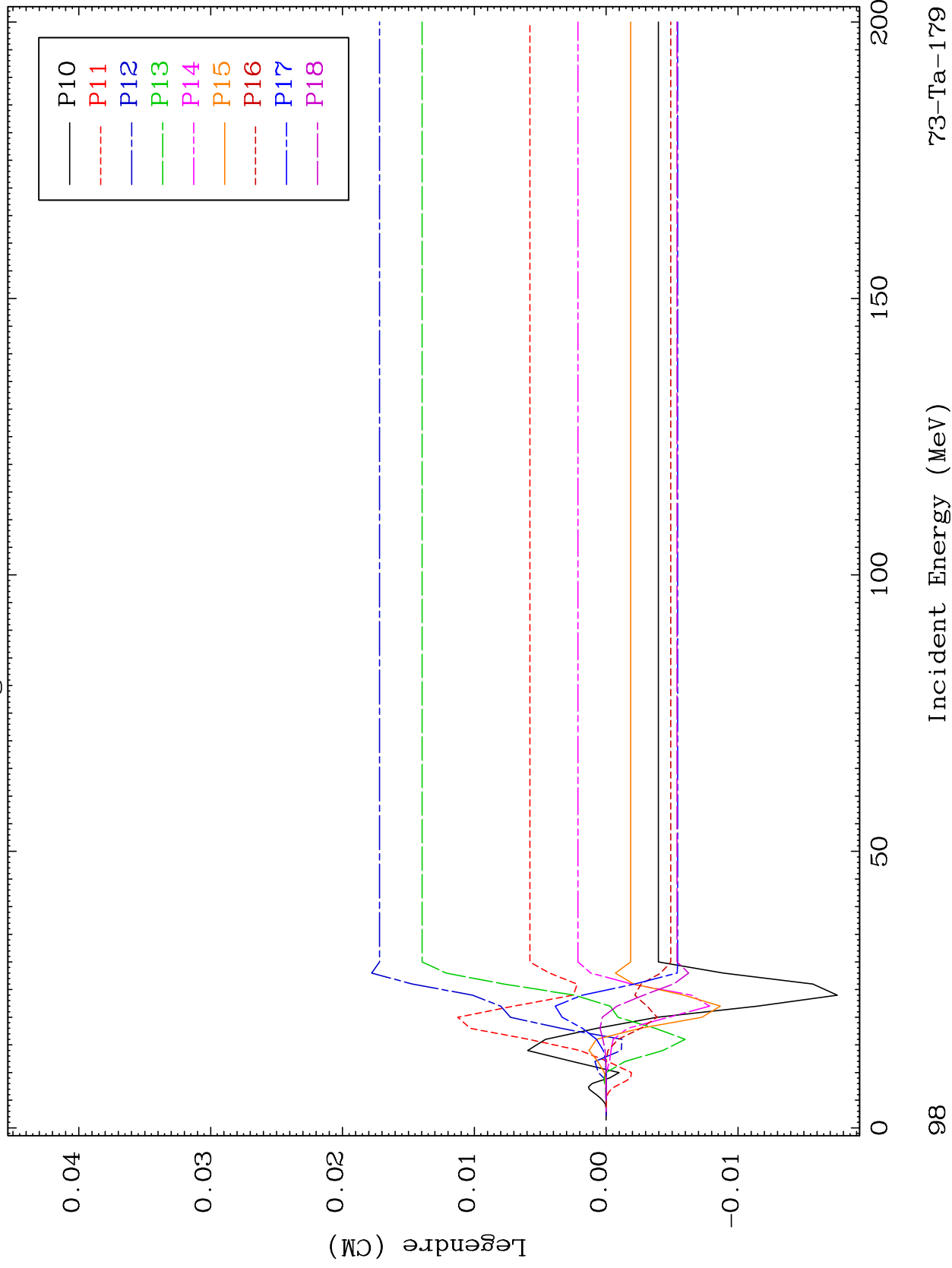




MAT 7322

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

73-Ta-179



73-Ta-179

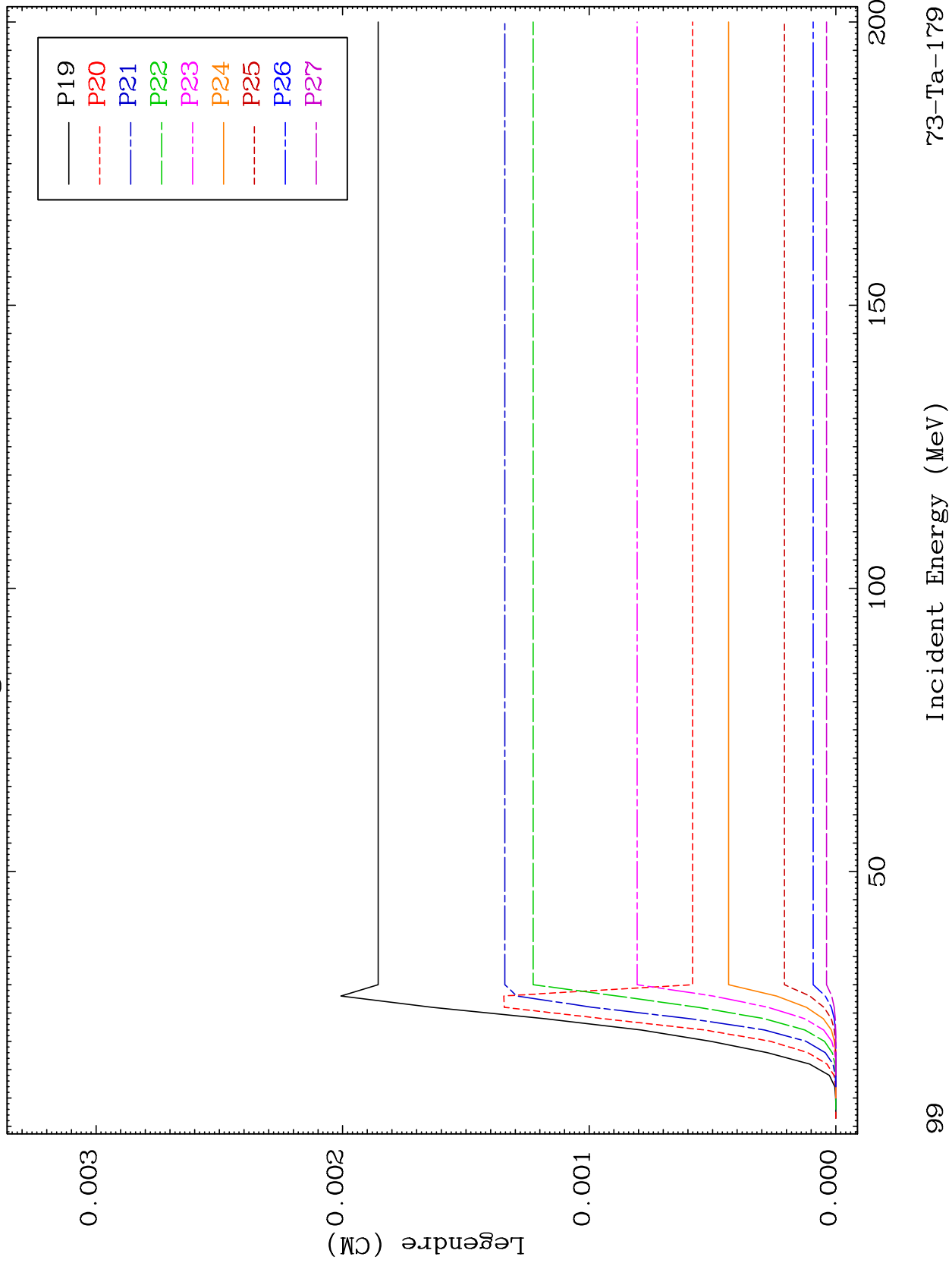
Incident Energy (MeV)

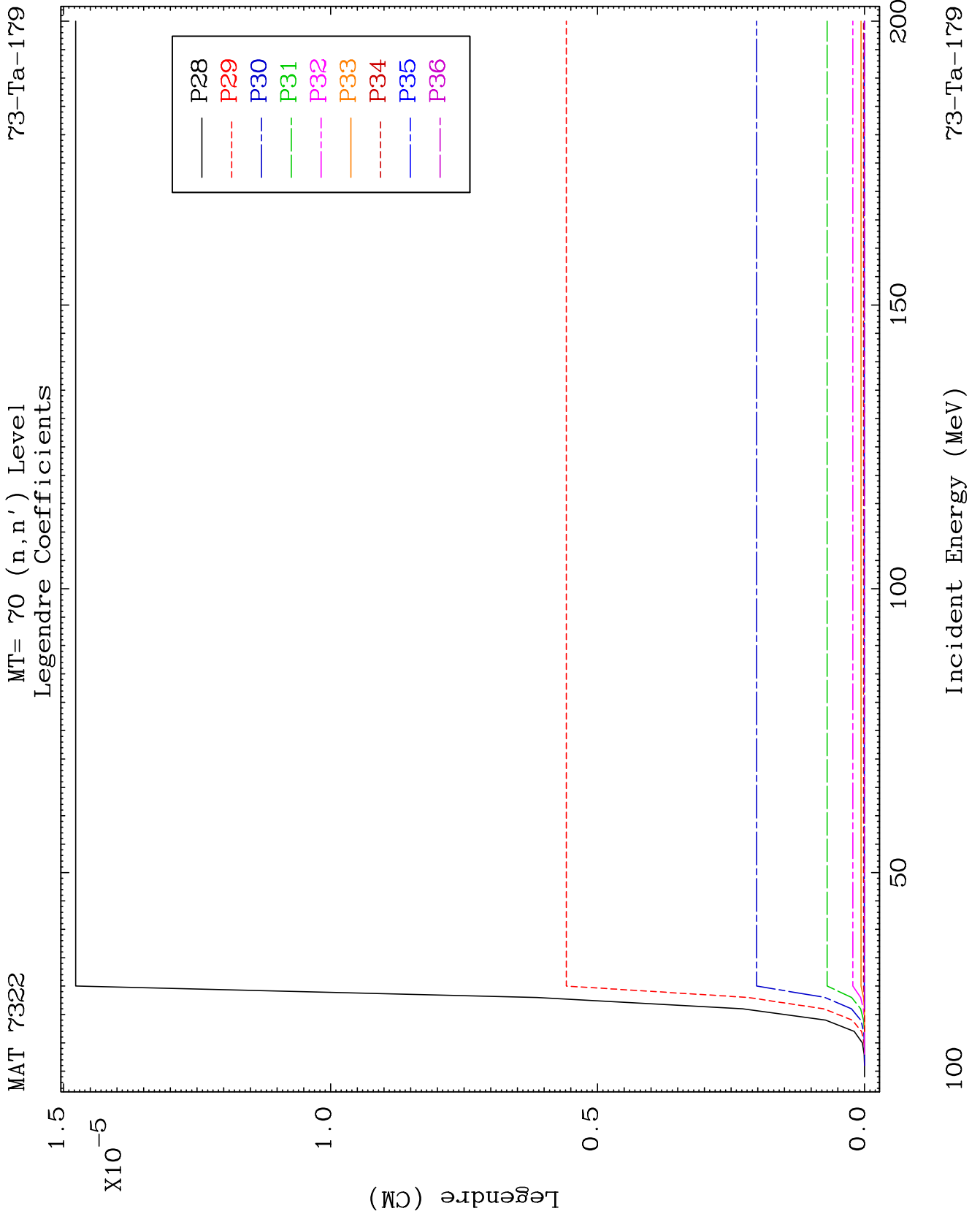
98

MAT 7322

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

73-Ta-179

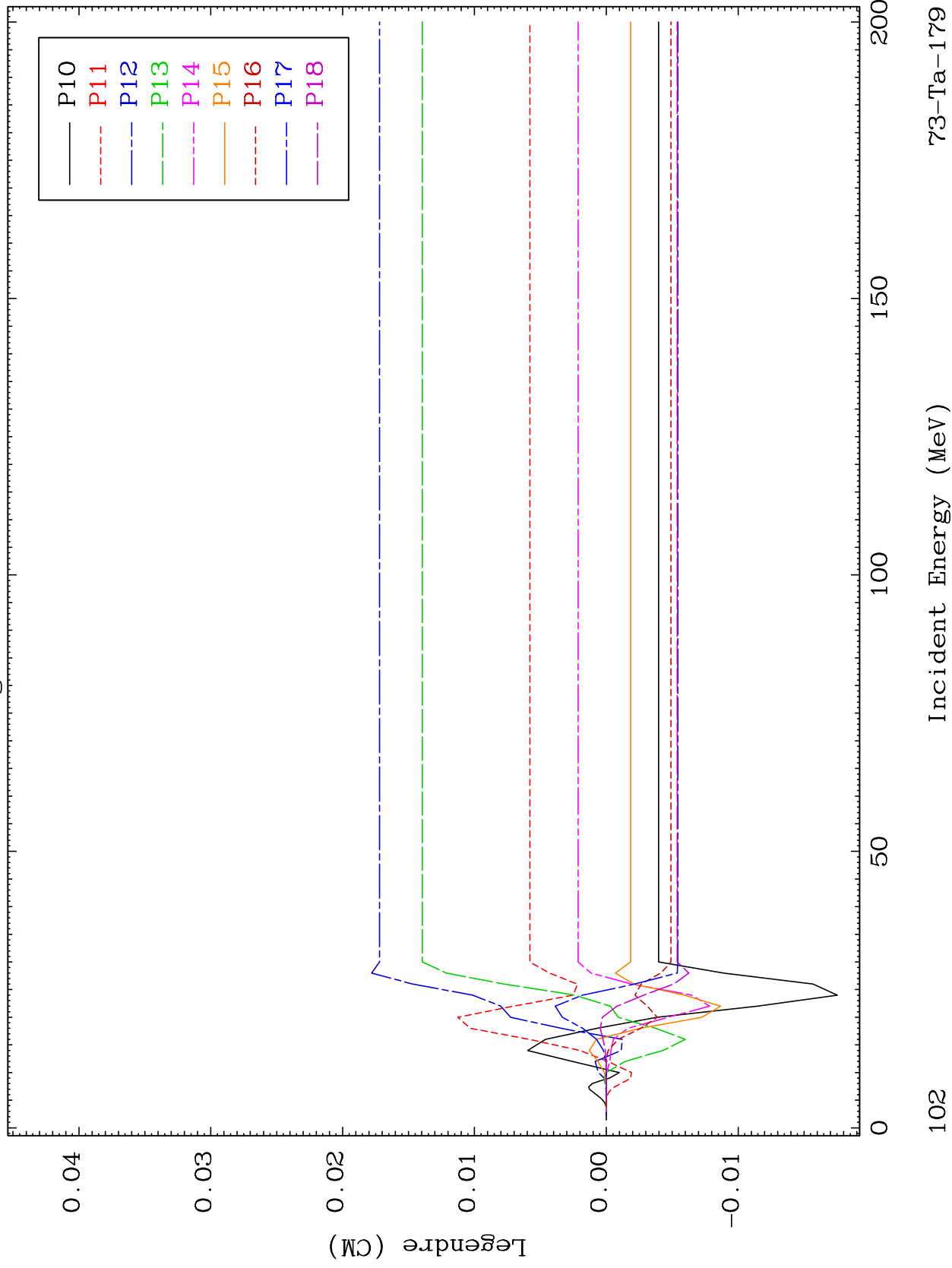




MAT 7322

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

73-Ta-179



73-Ta-179

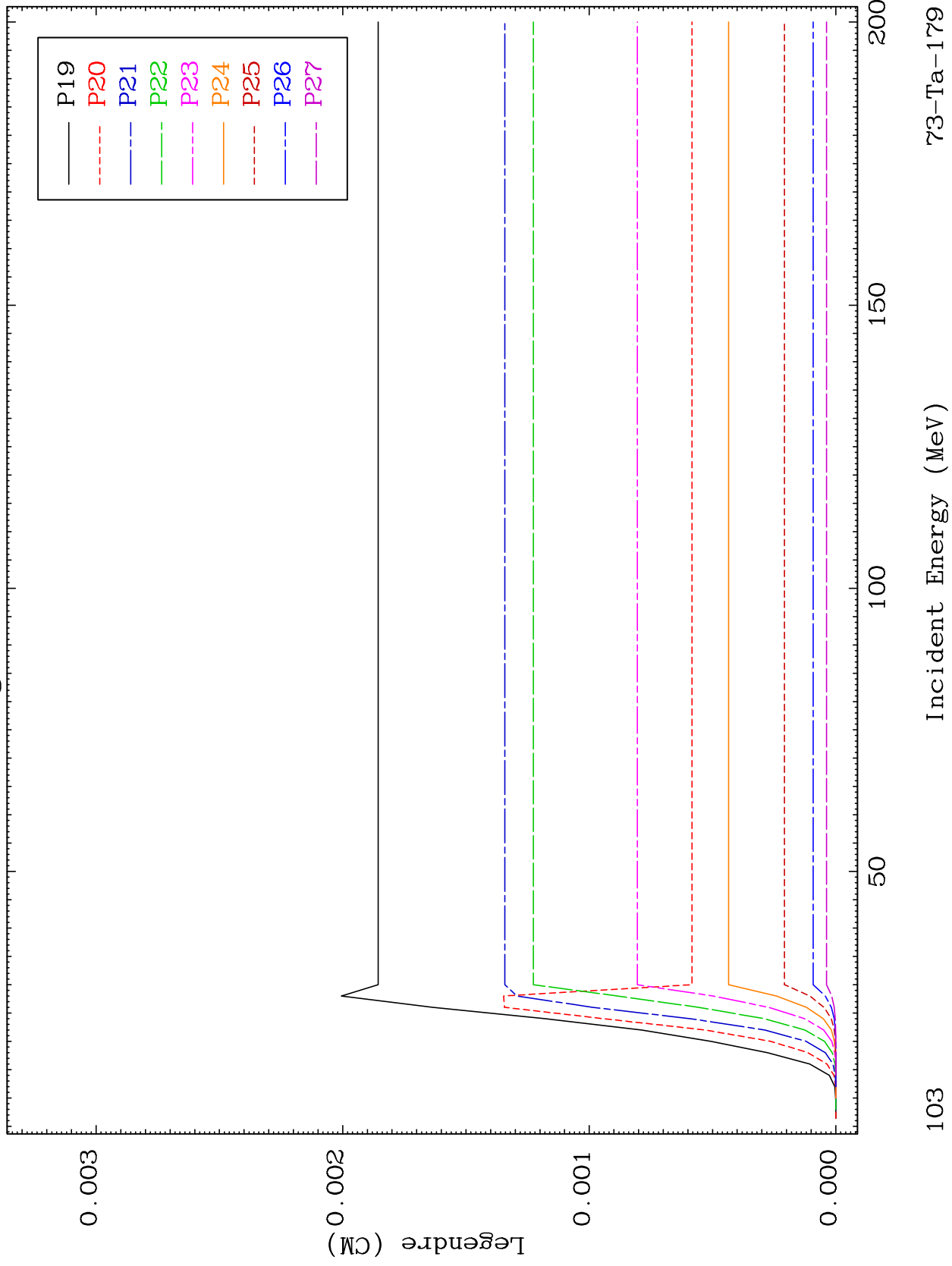
Incident Energy (MeV)

102

MAT 7322

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

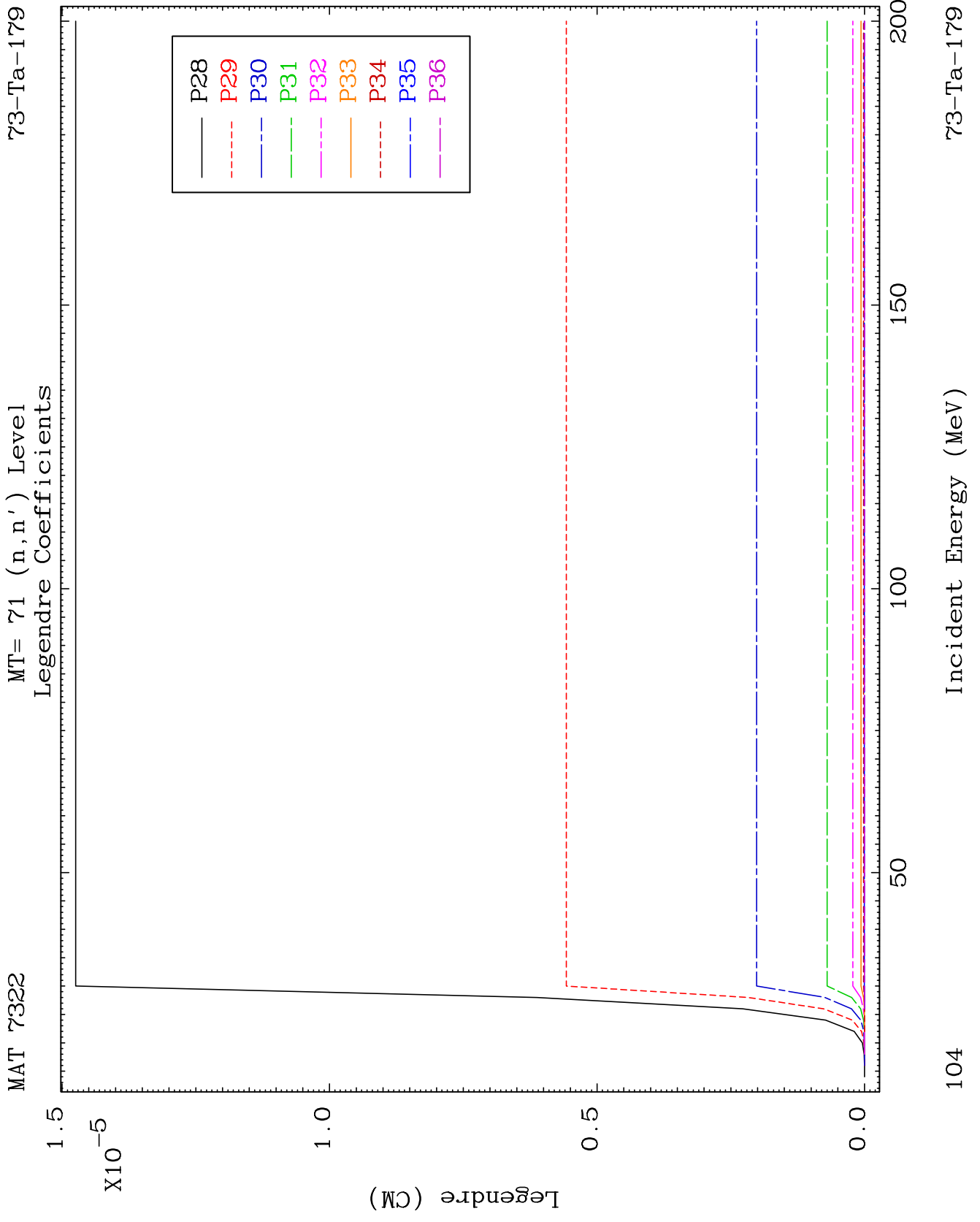
73-Ta-179

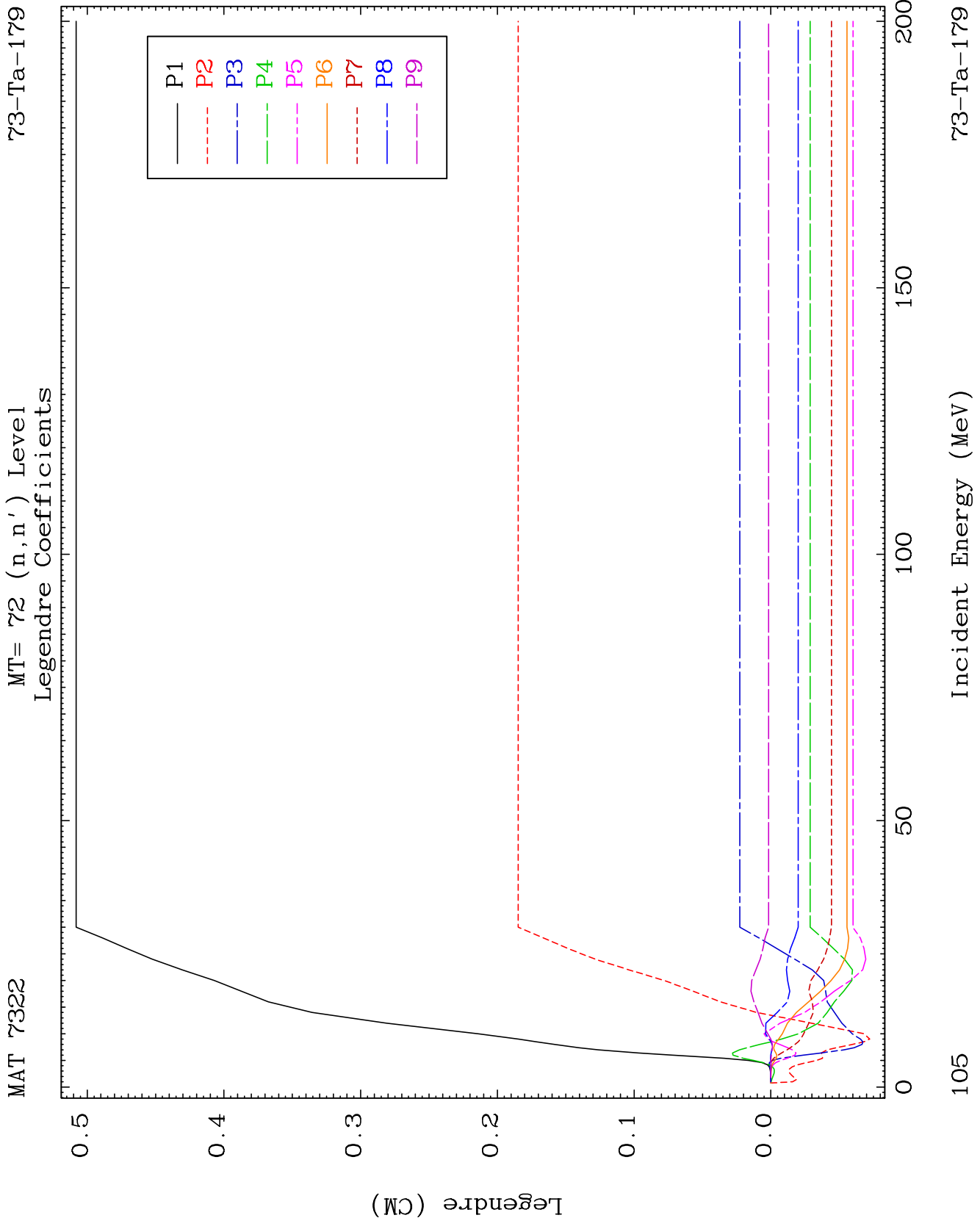


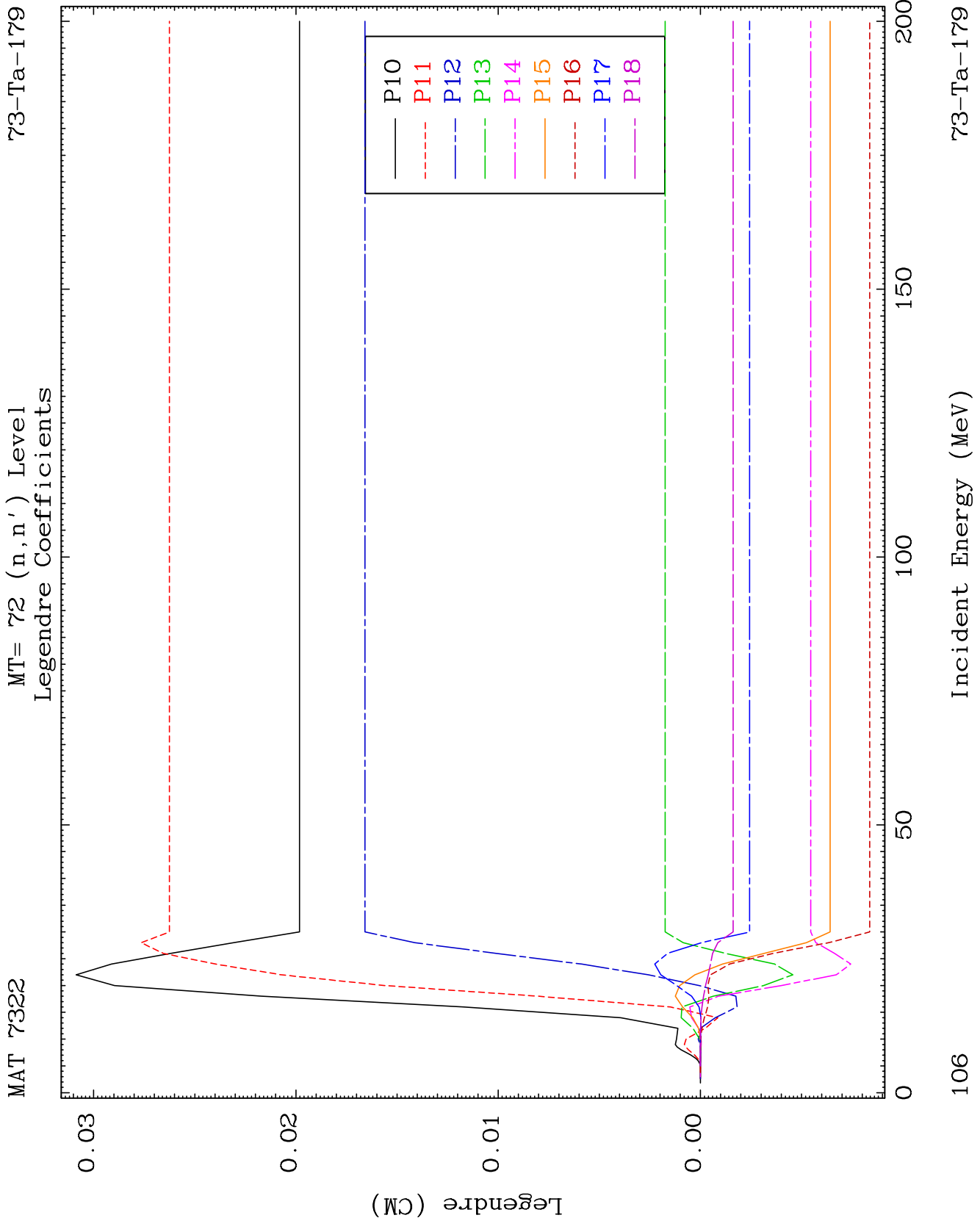
103

Incident Energy (MeV)

73-Ta-179



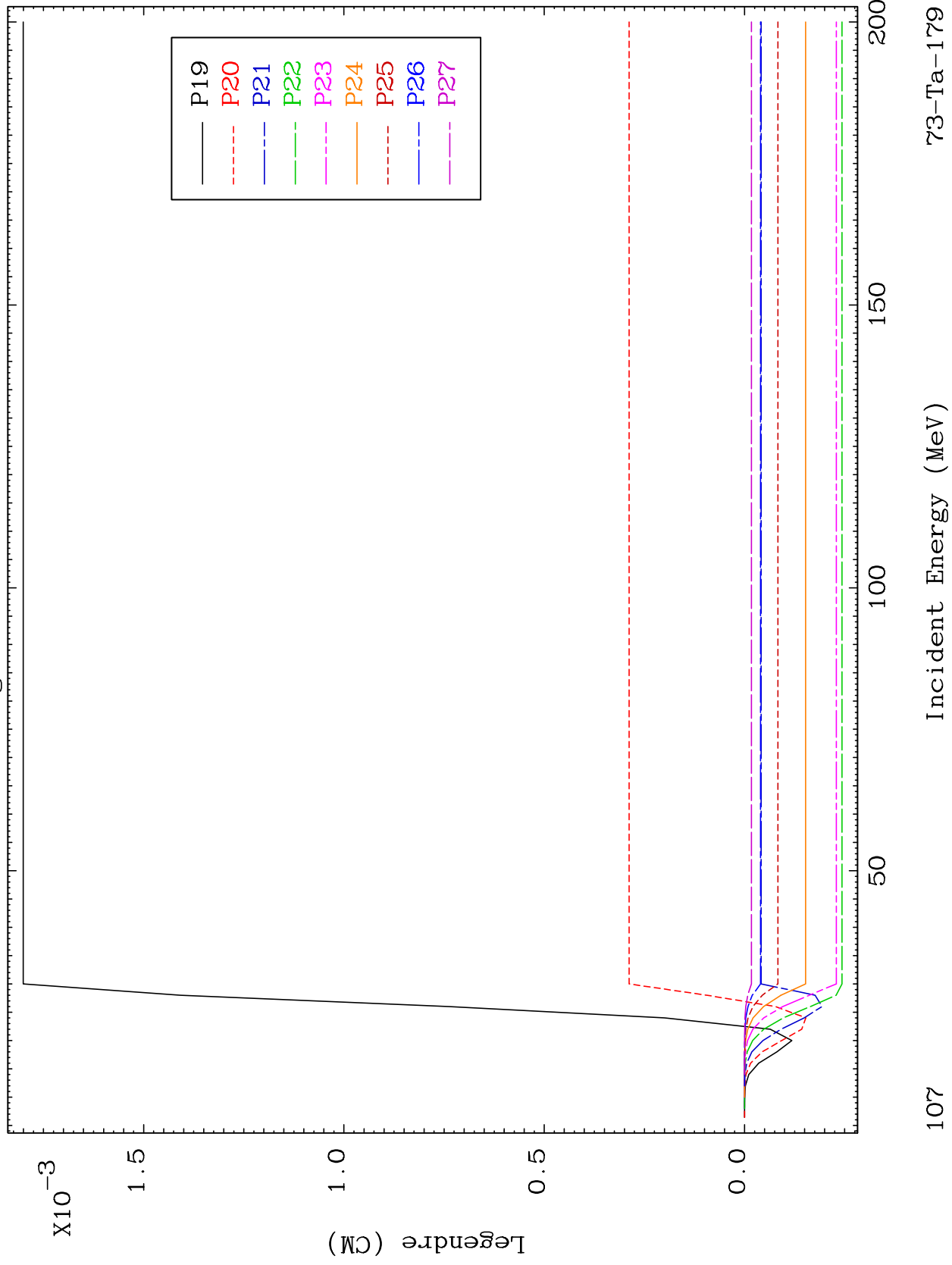




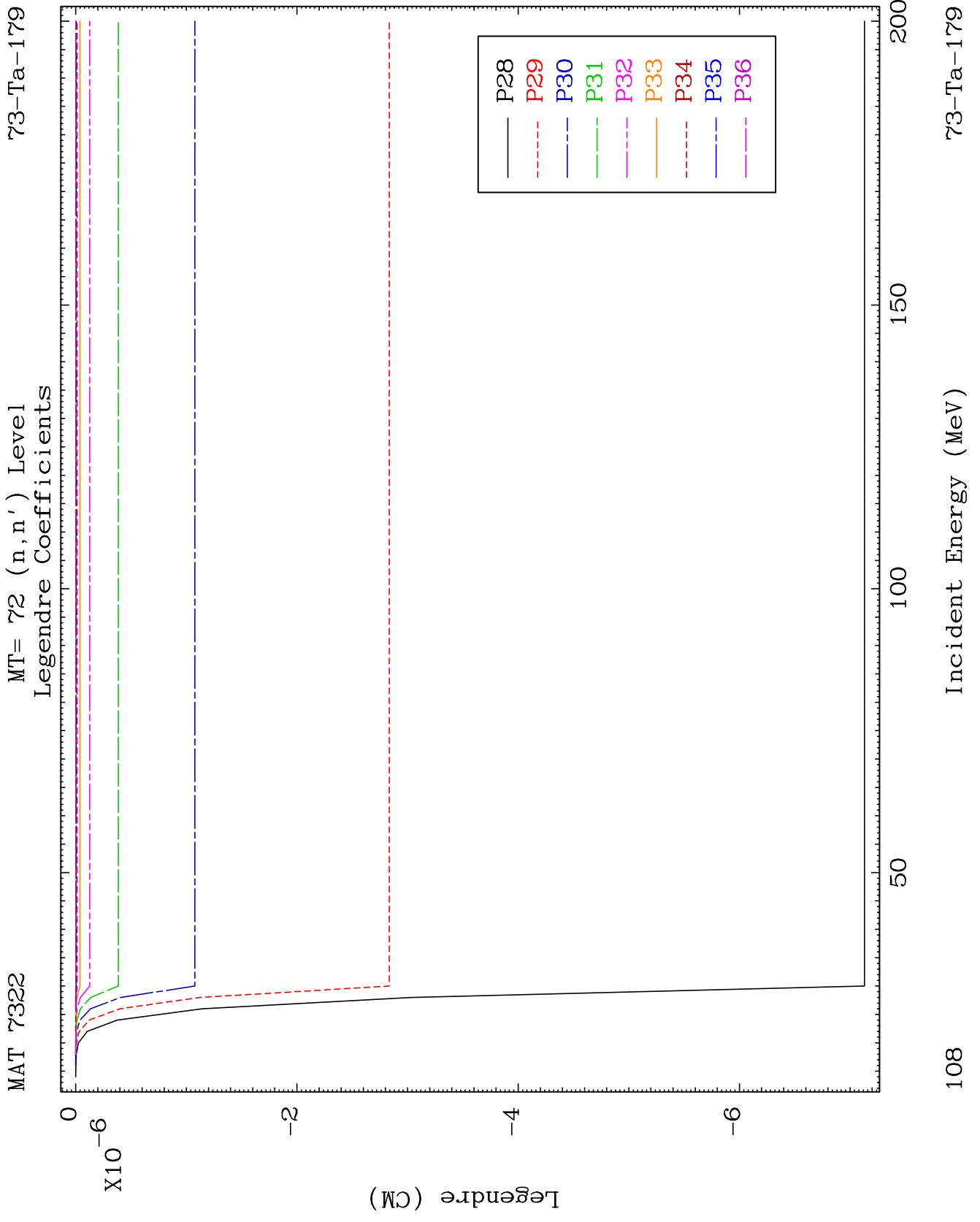
MAT 7322

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

73-Ta-179



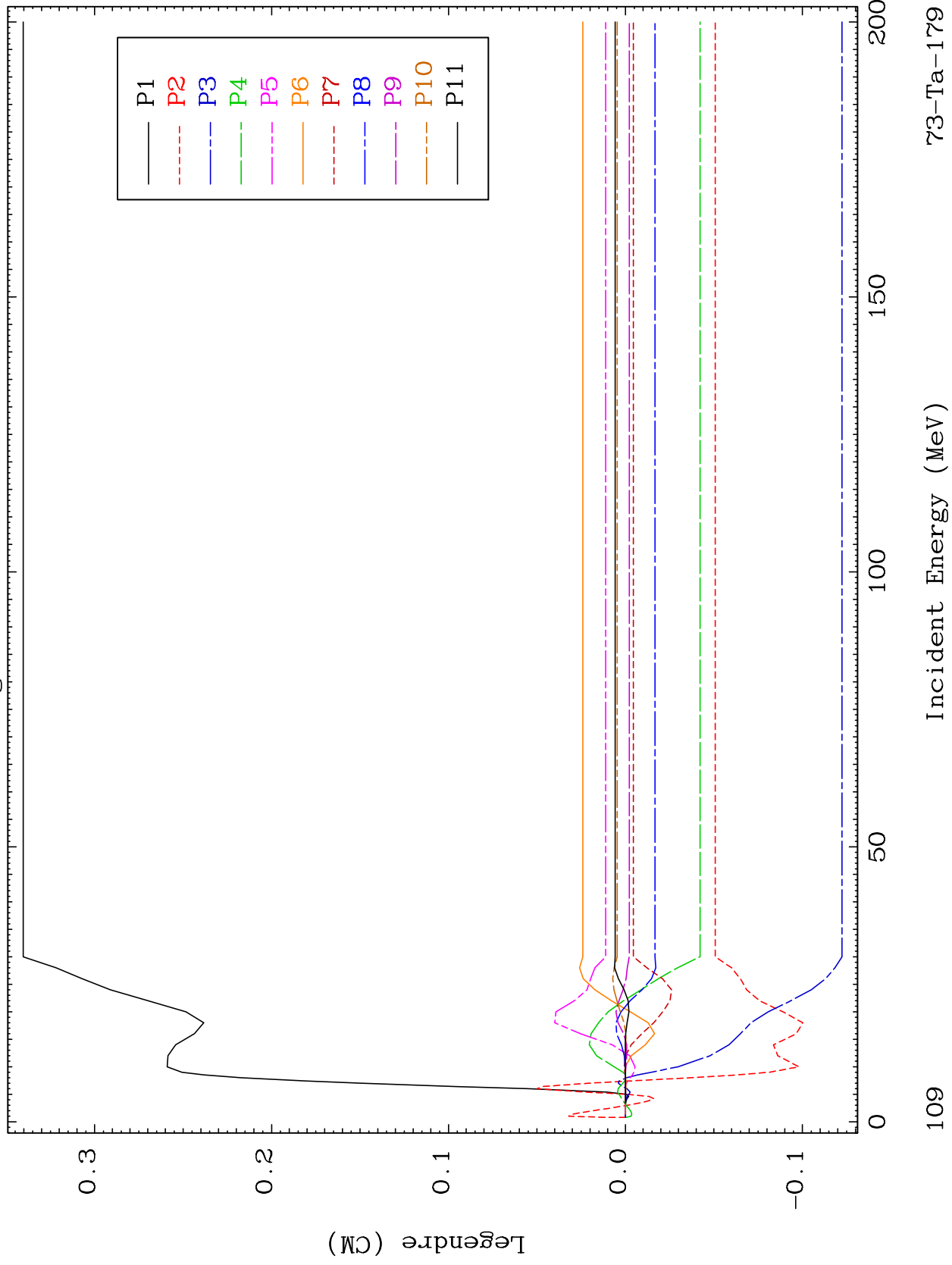
107



MAT 7322

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

73-Ta-179

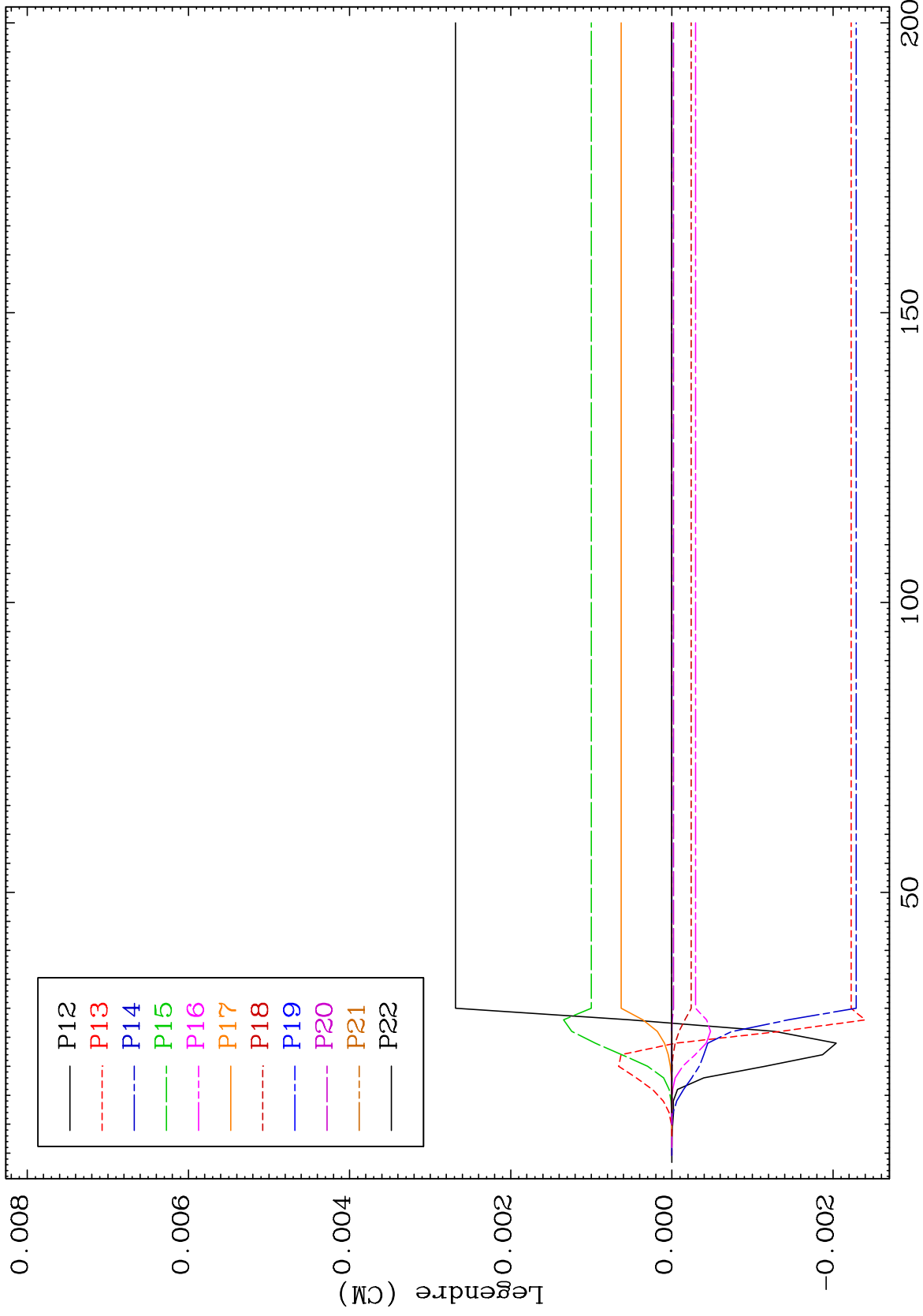


109

MAT 7322

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

73-Ta-179



110

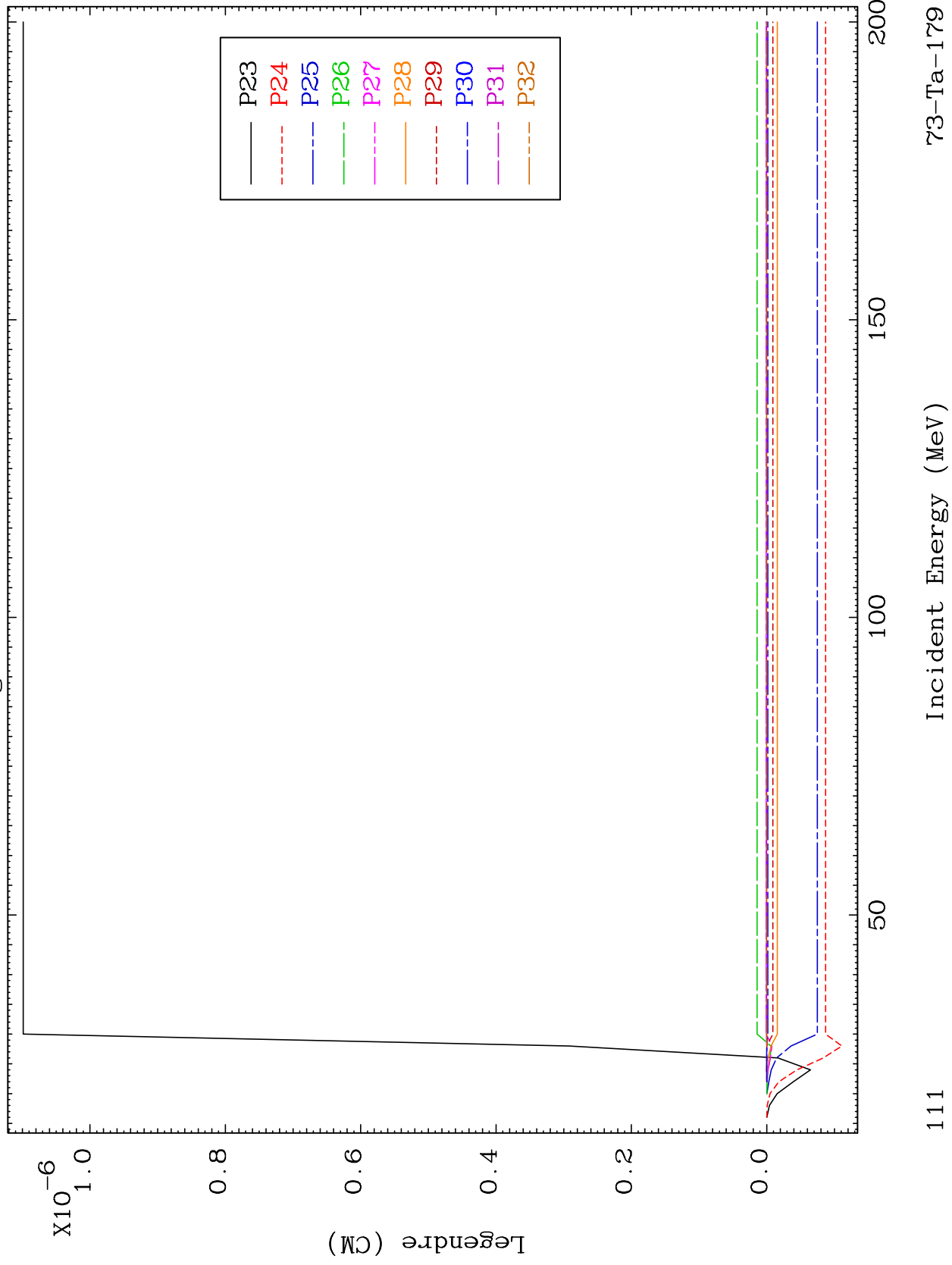
Incident Energy (MeV)

73-Ta-179

MAT 7322

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

73-Ta-179



111

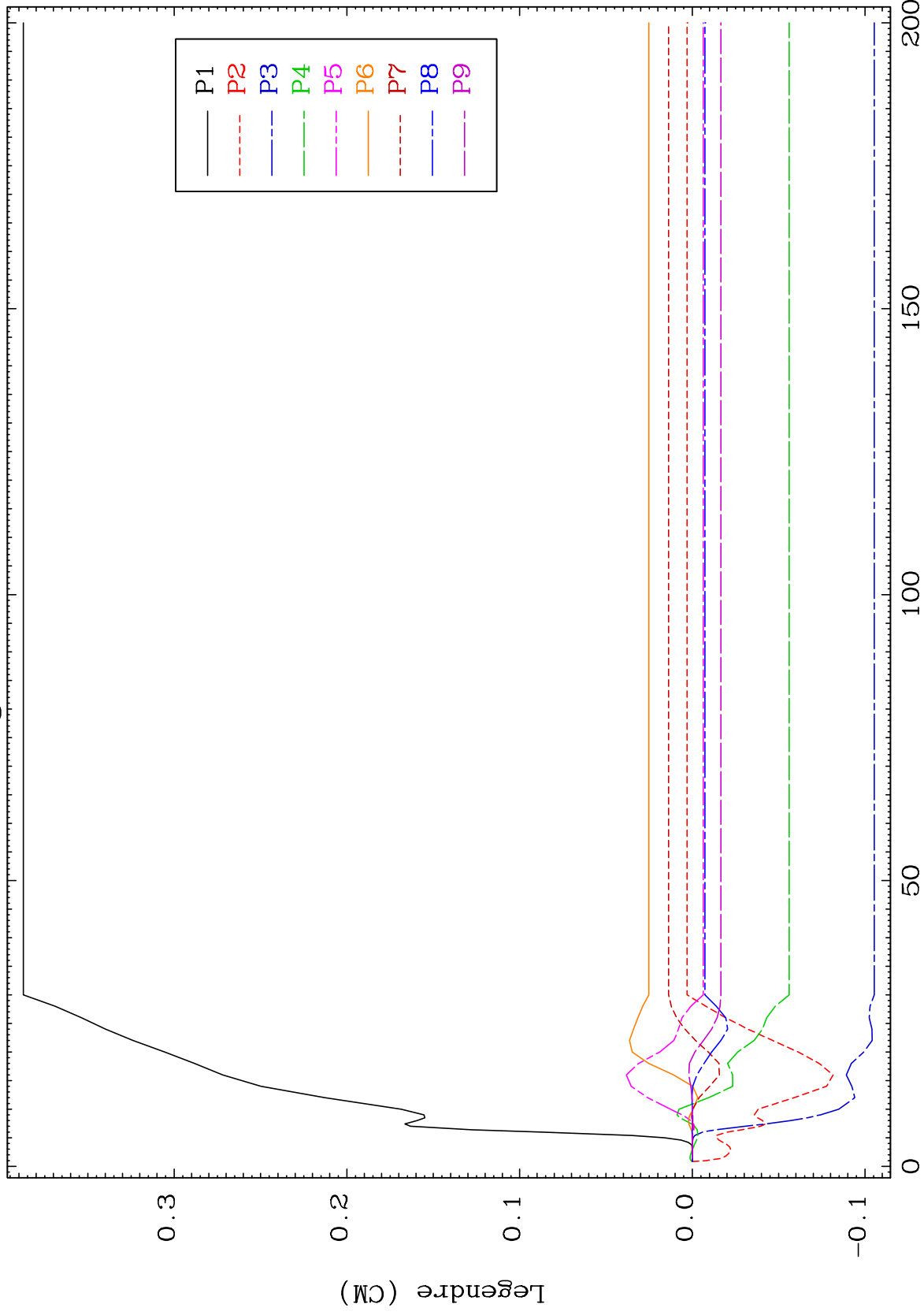
Incident Energy (MeV)

73-Ta-179

MAT 7322

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

73-Ta-179



112

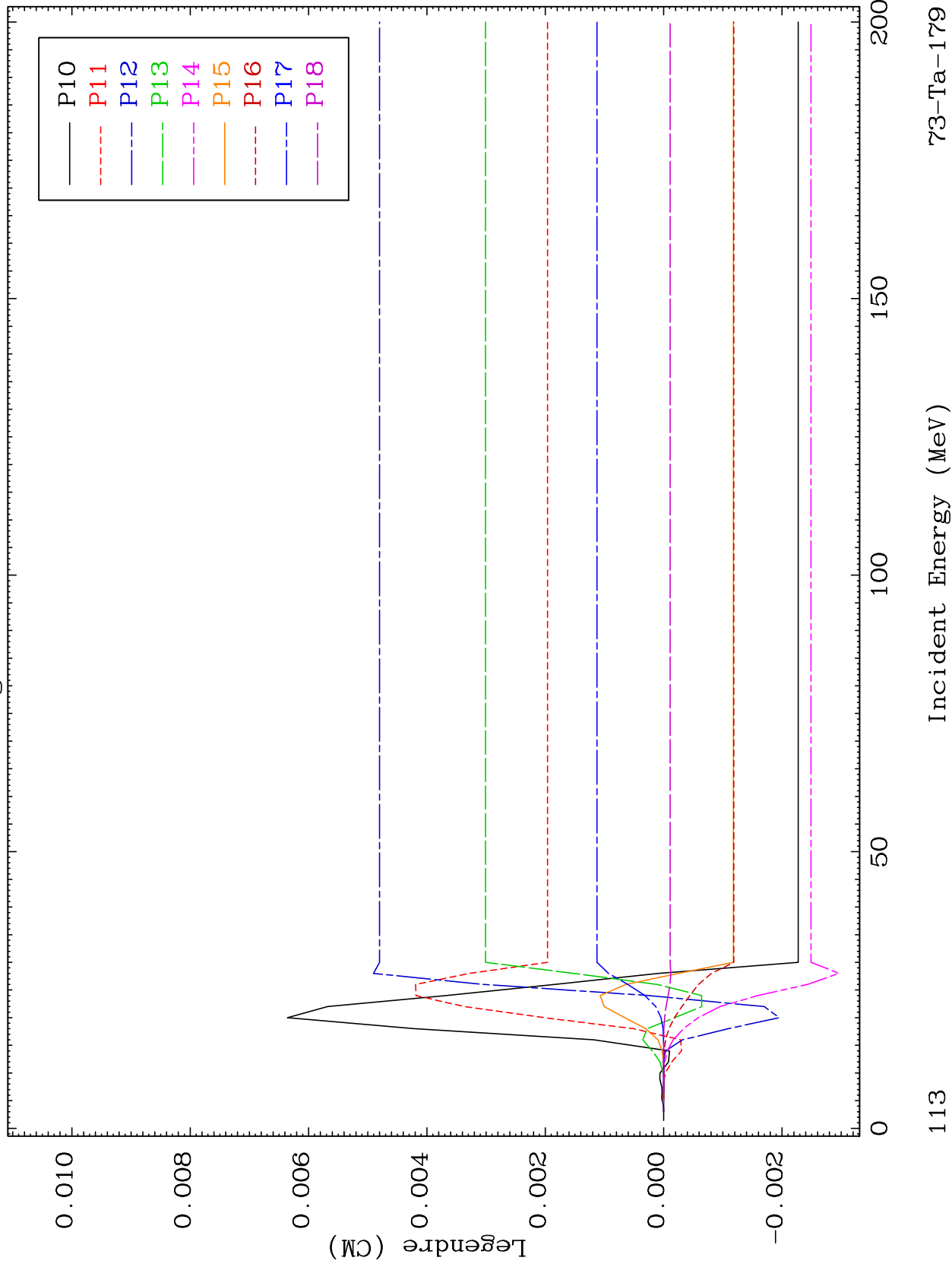
Incident Energy (MeV)

73-Ta-179

MAT 7322

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

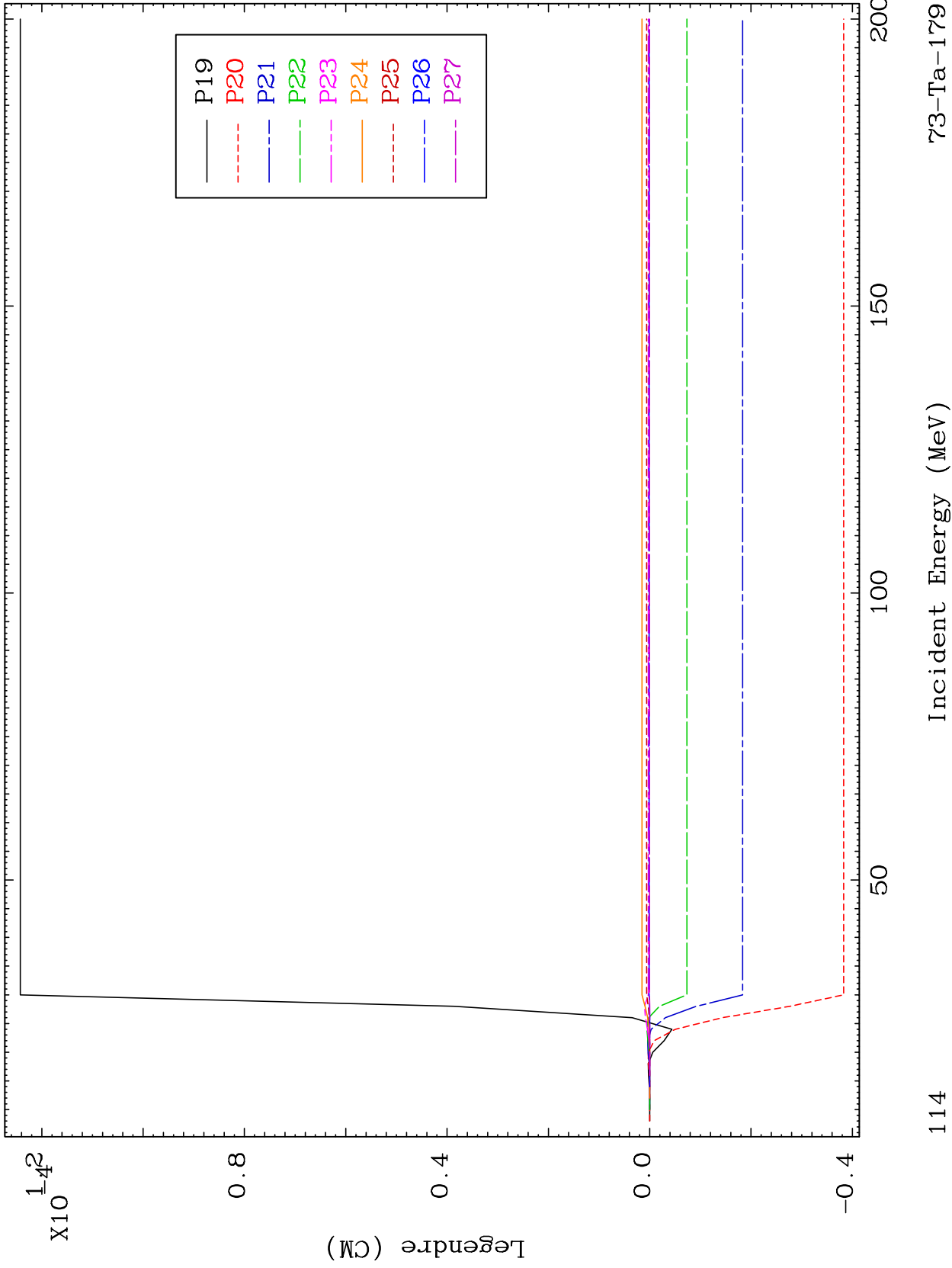
73-Ta-179



MAT 7322

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

73-Ta-179

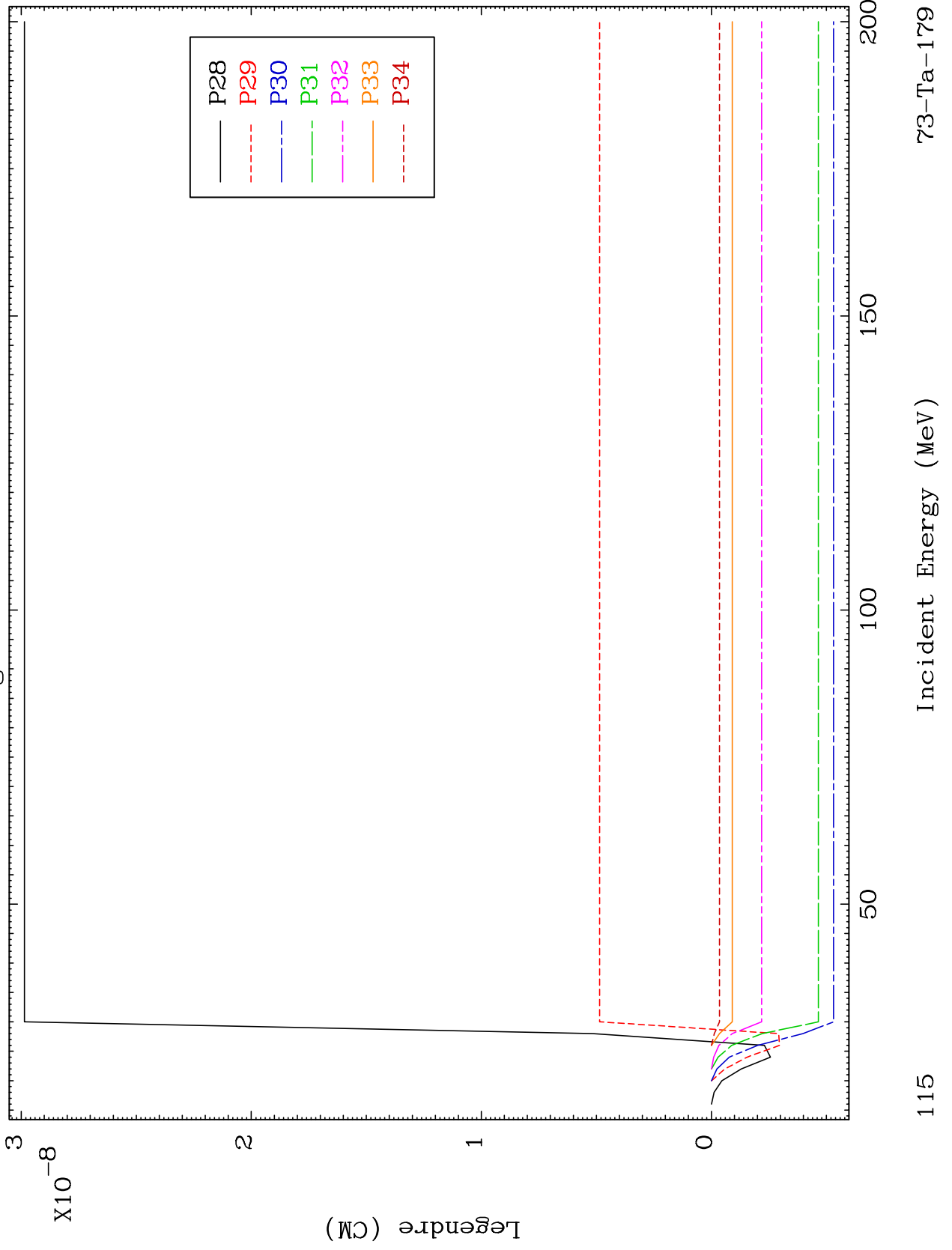


114

MAT 7322

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

73-Ta-179



115

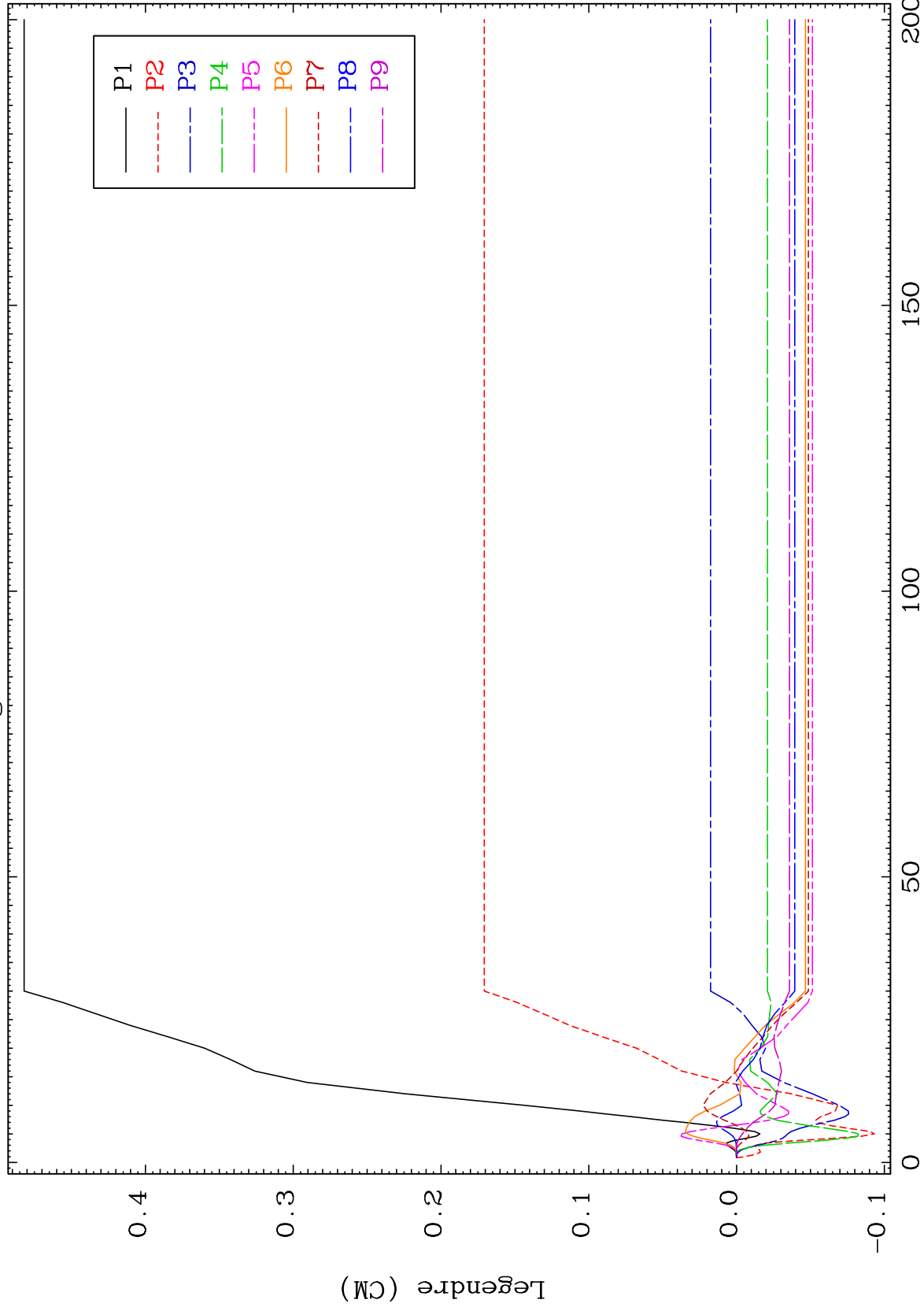
Incident Energy (MeV)

73-Ta-179

MAT 7322

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

73-Ta-179



116

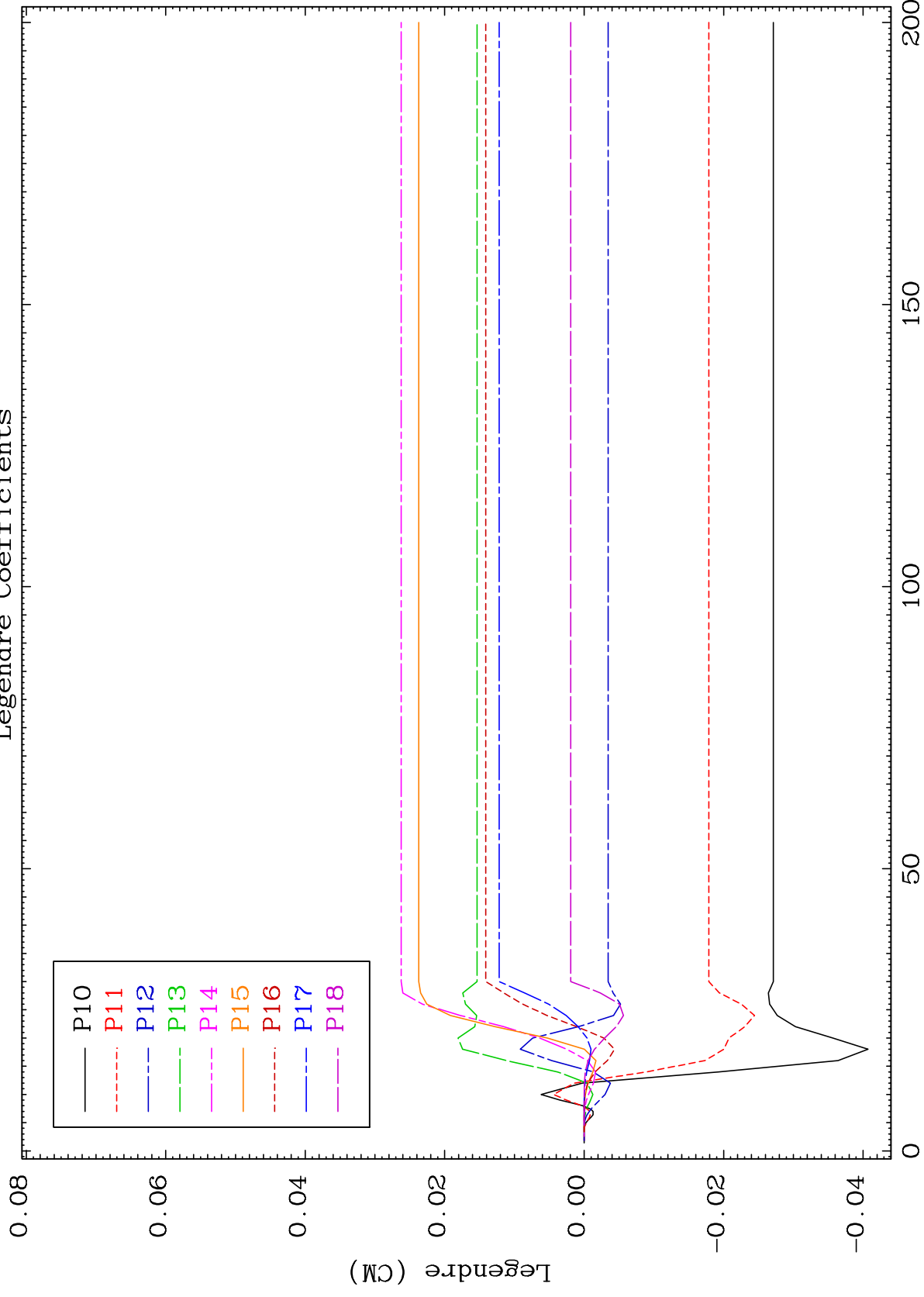
Incident Energy (MeV)

73-Ta-179

MAT 7322

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

73-Ta-179



117

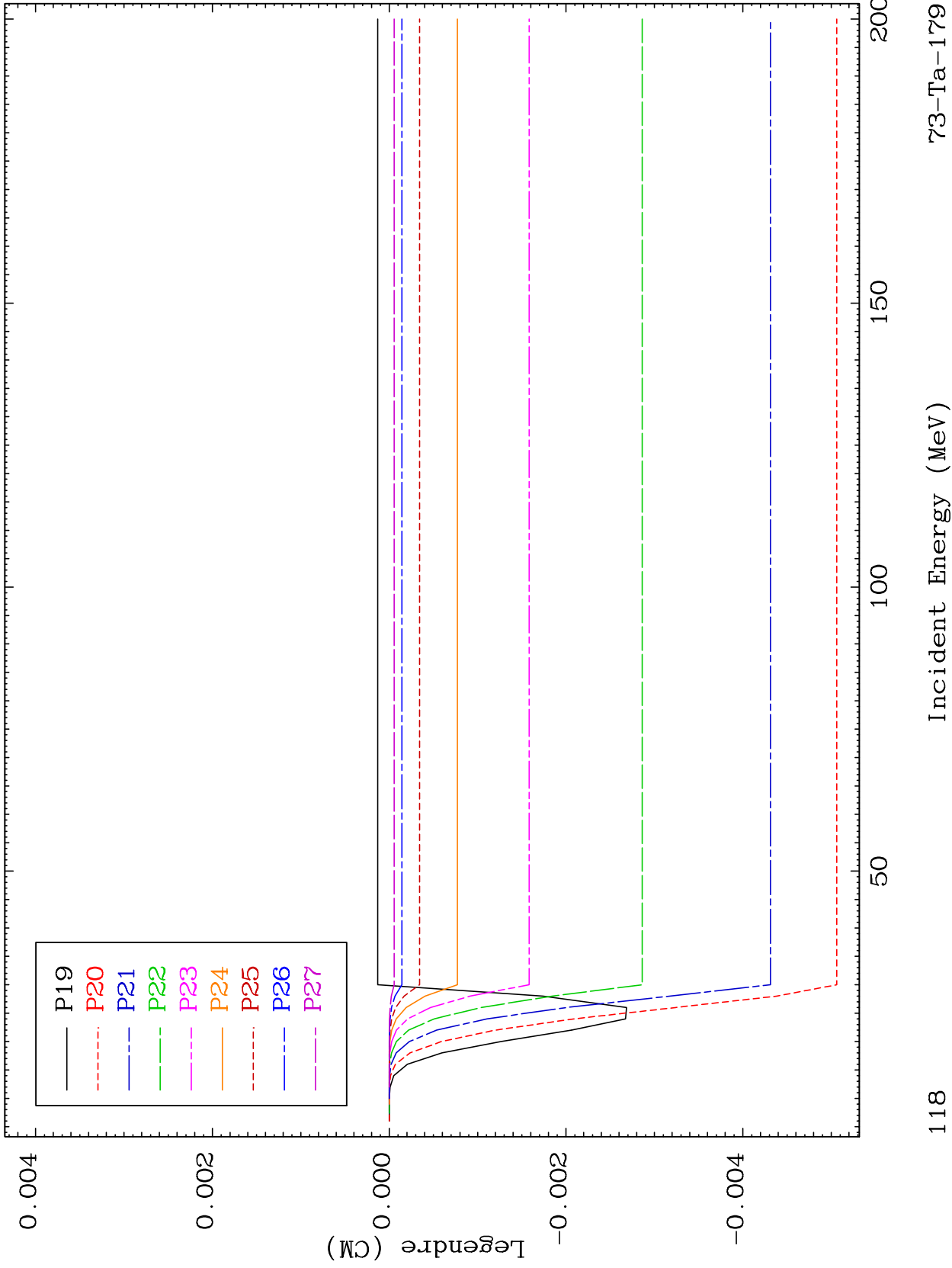
Incident Energy (MeV)

73-Ta-179

MAT 7322

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

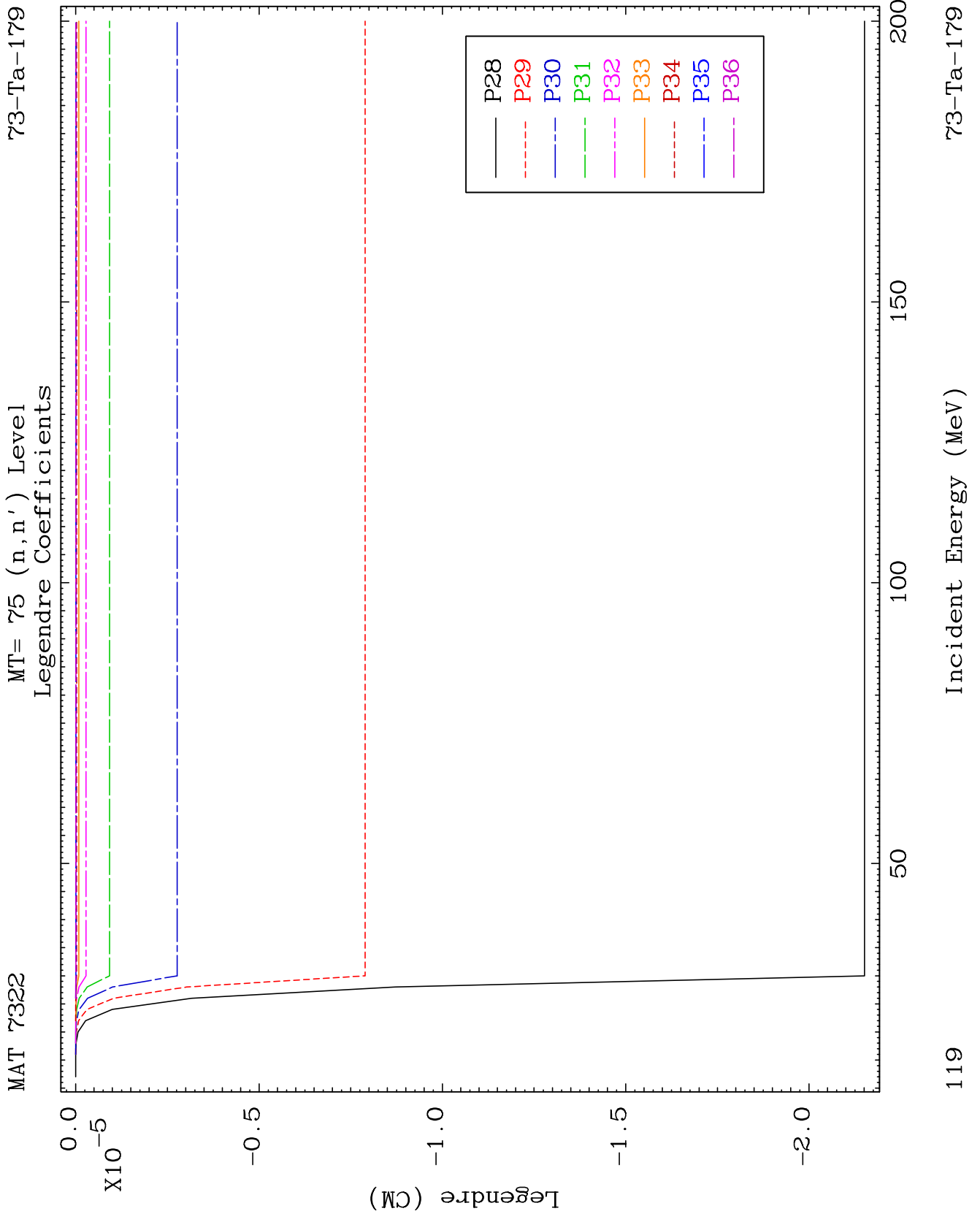
73-Ta-179

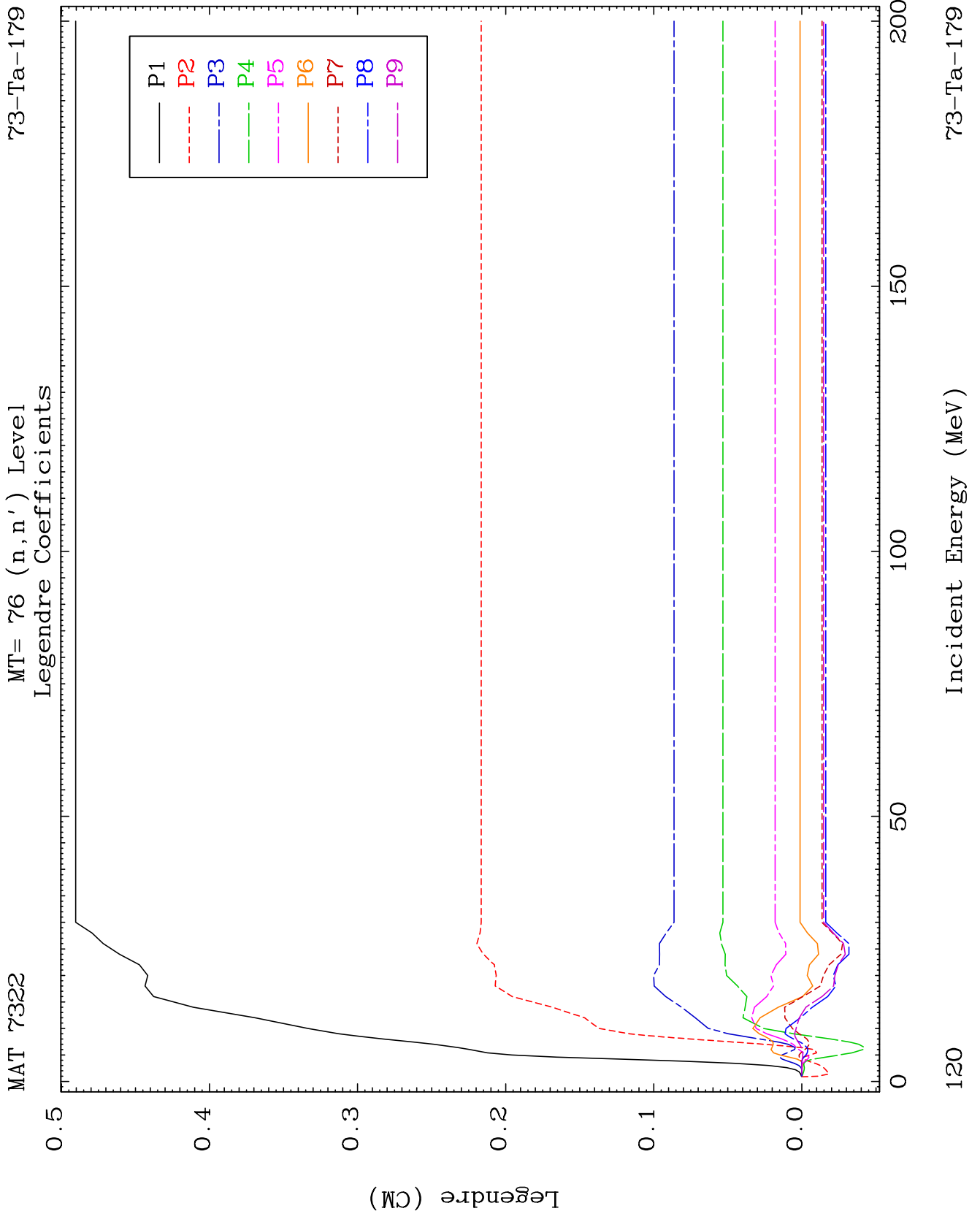


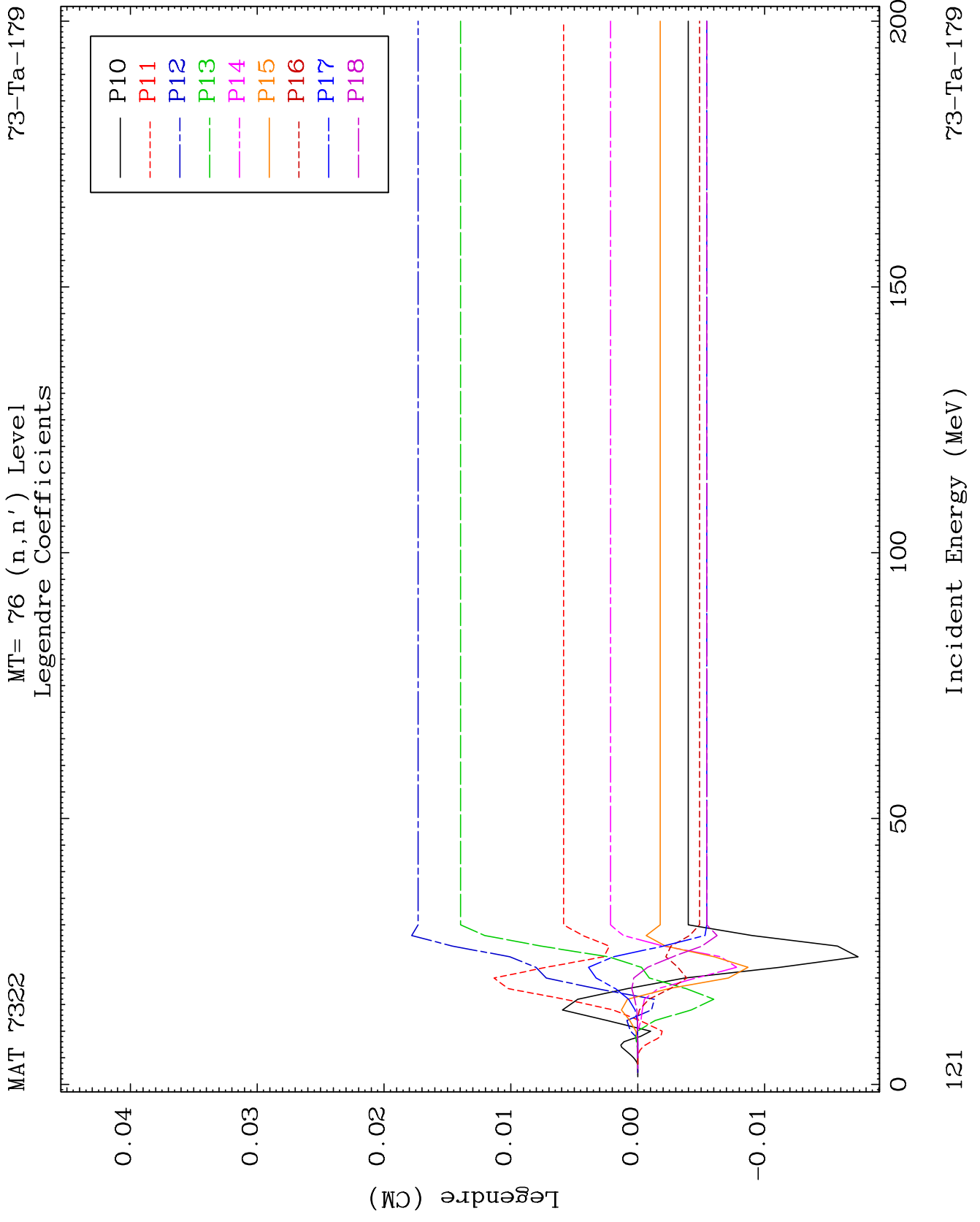
118

Incident Energy (MeV)

73-Ta-179



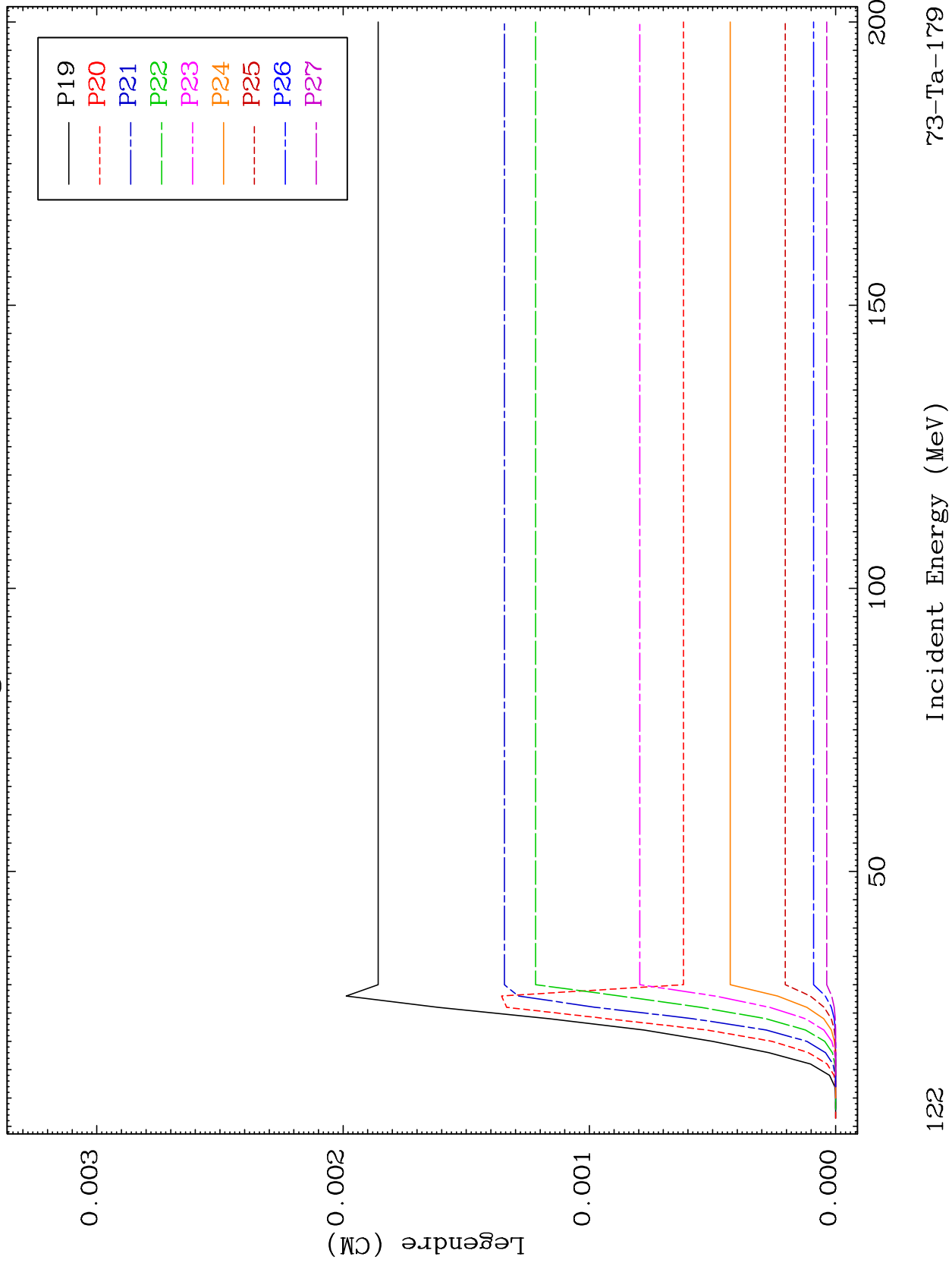




MAT 7322

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

73-Ta-179



122

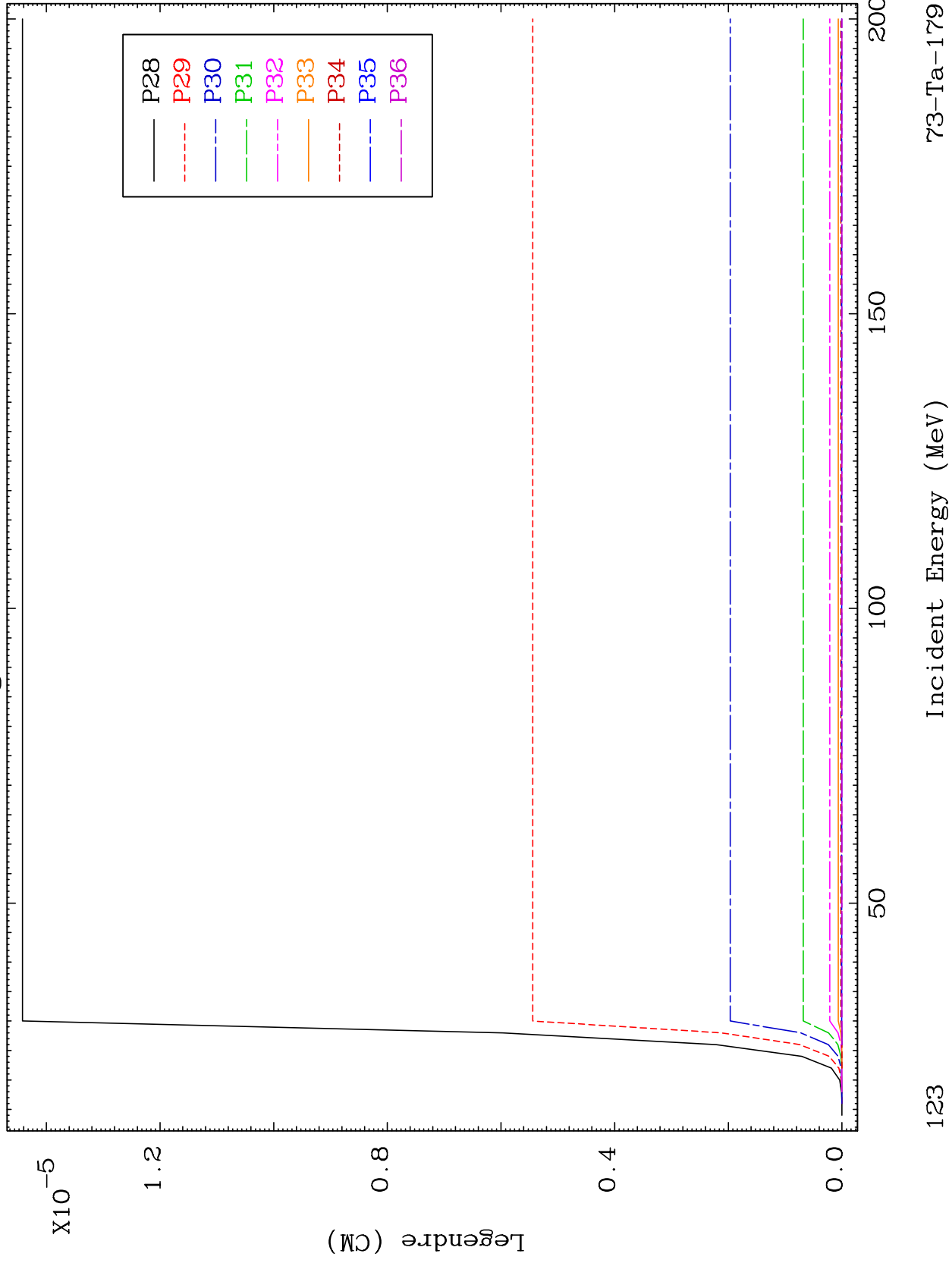
Incident Energy (MeV)

73-Ta-179

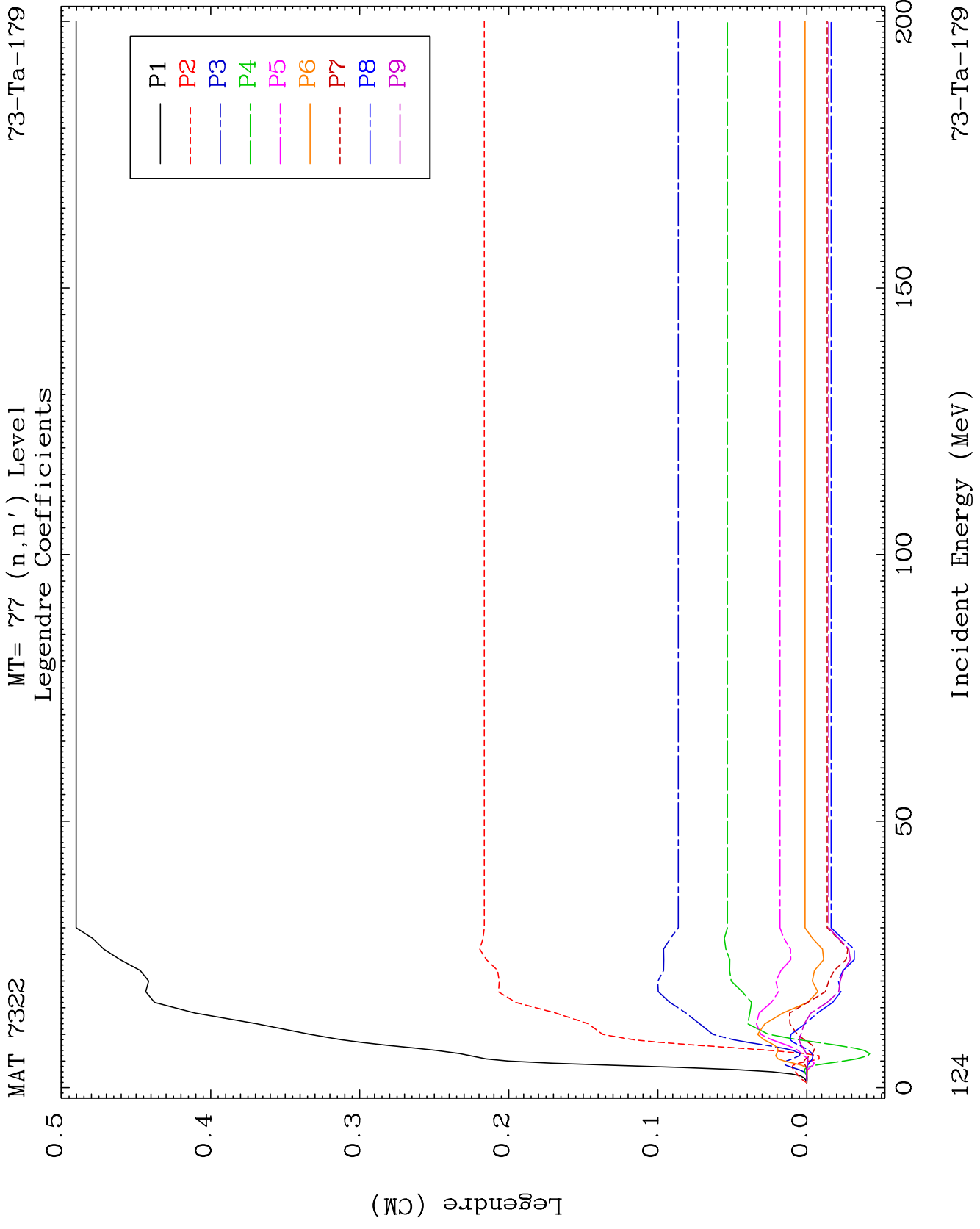
MAT 7322

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

73-Ta-179



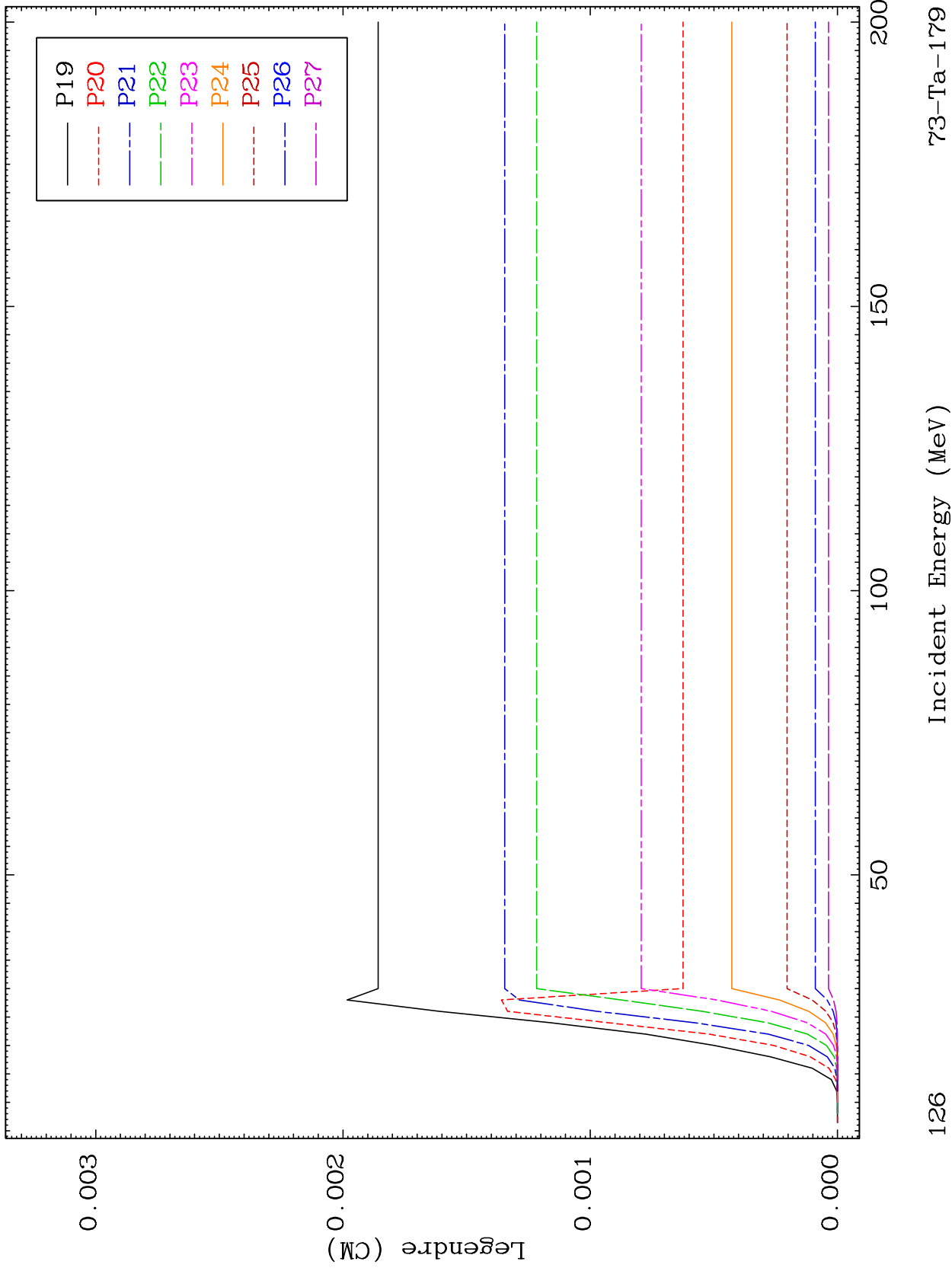
123



MAT 7322

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

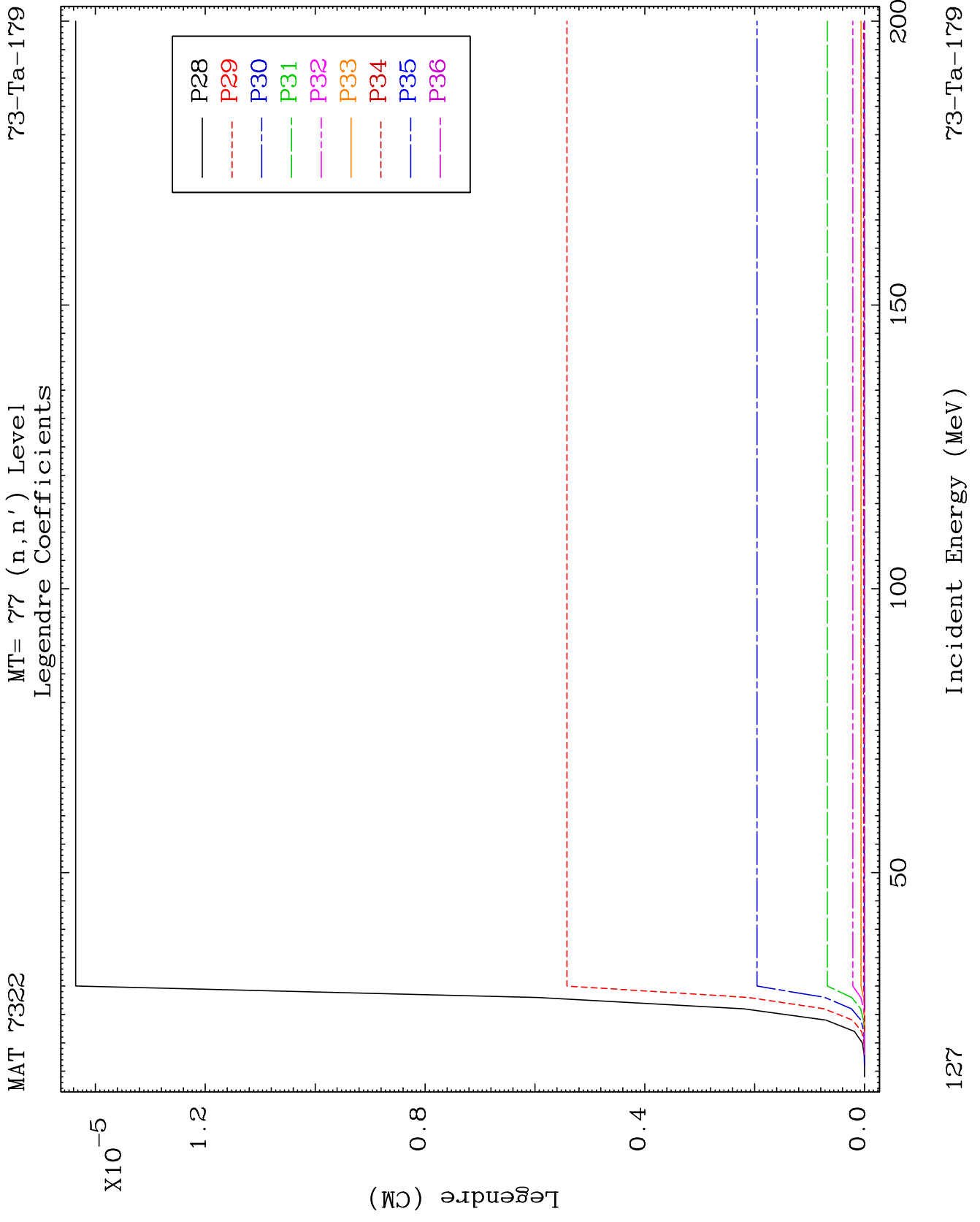
73-Ta-179

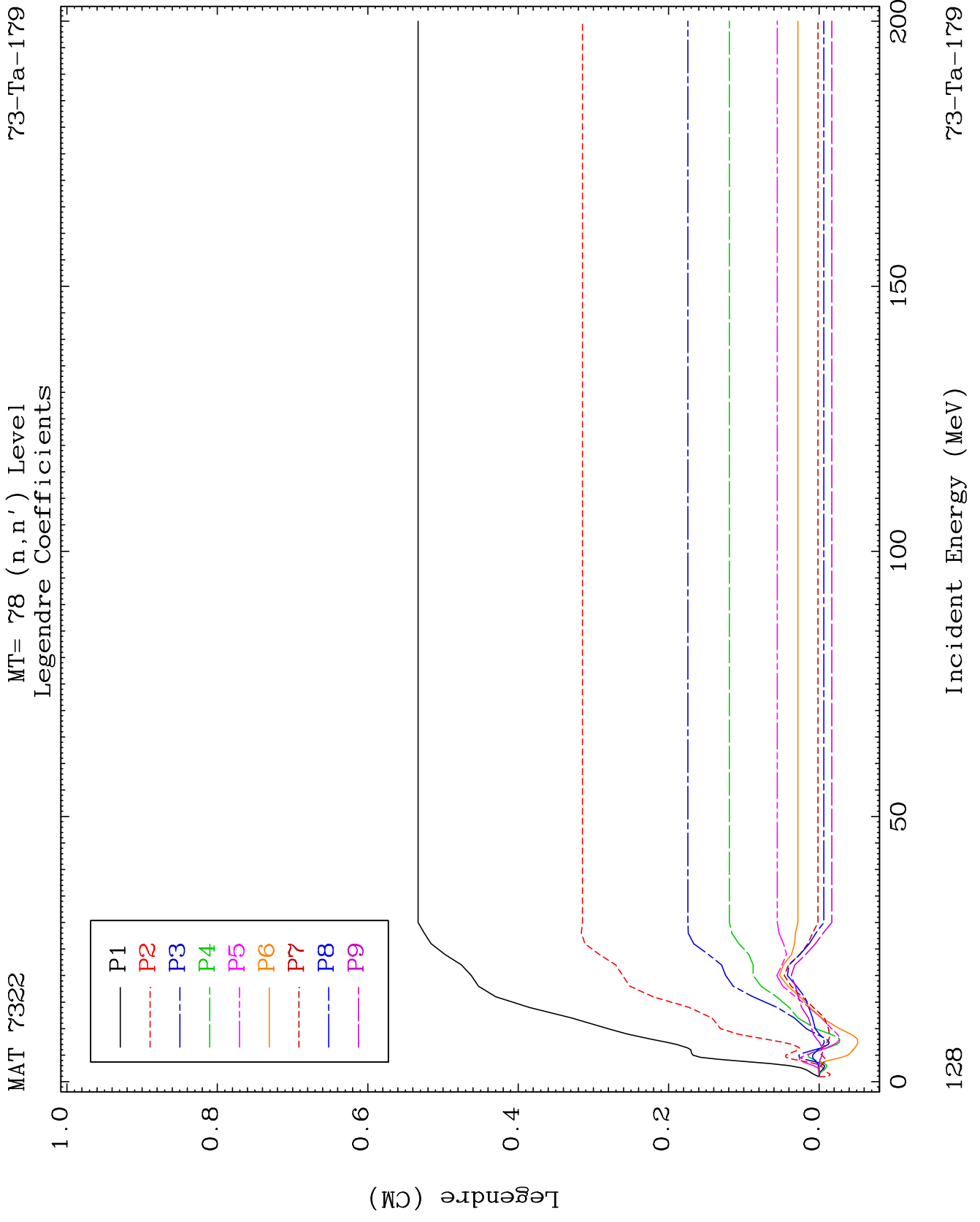


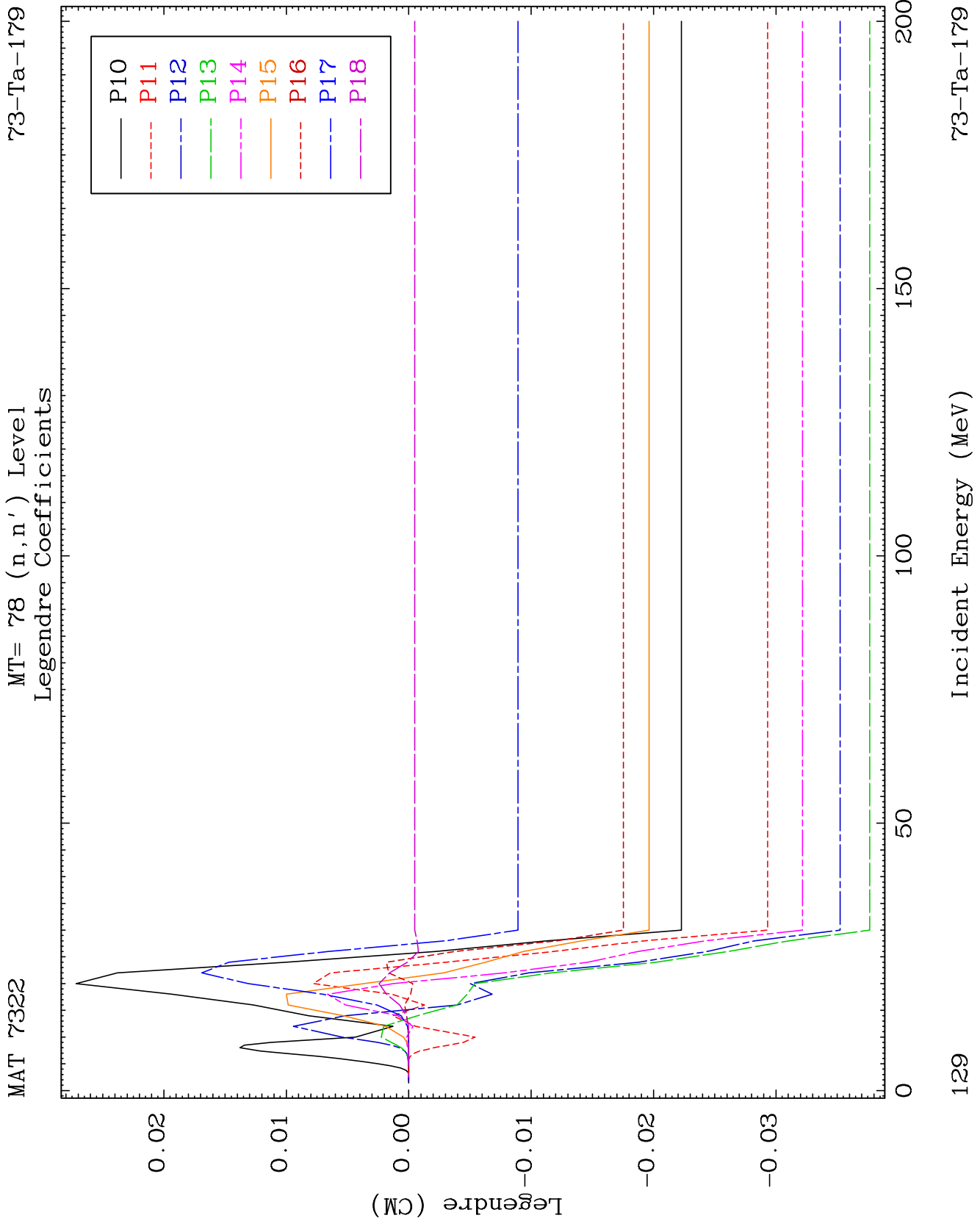
126

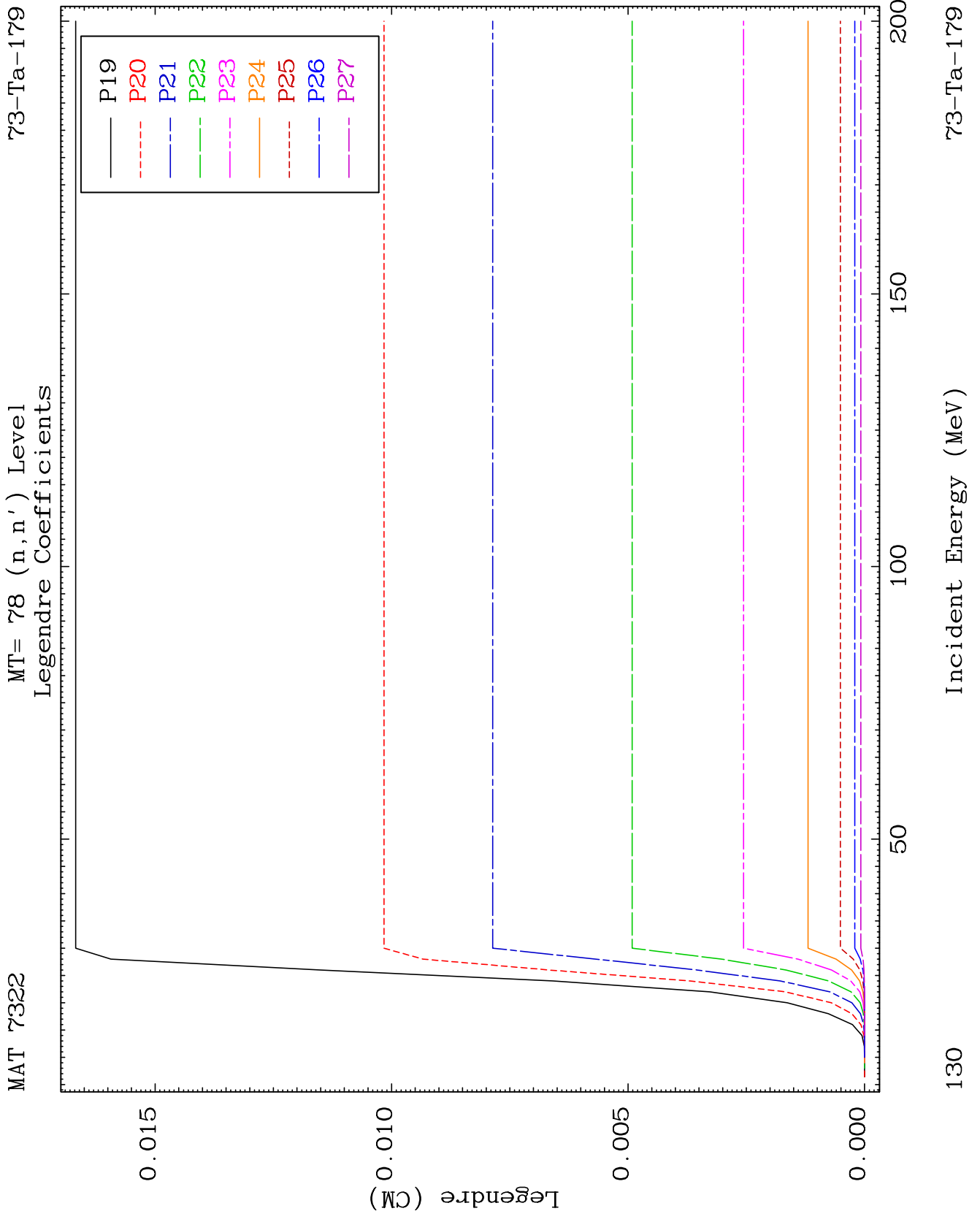
Incident Energy (MeV)

73-Ta-179





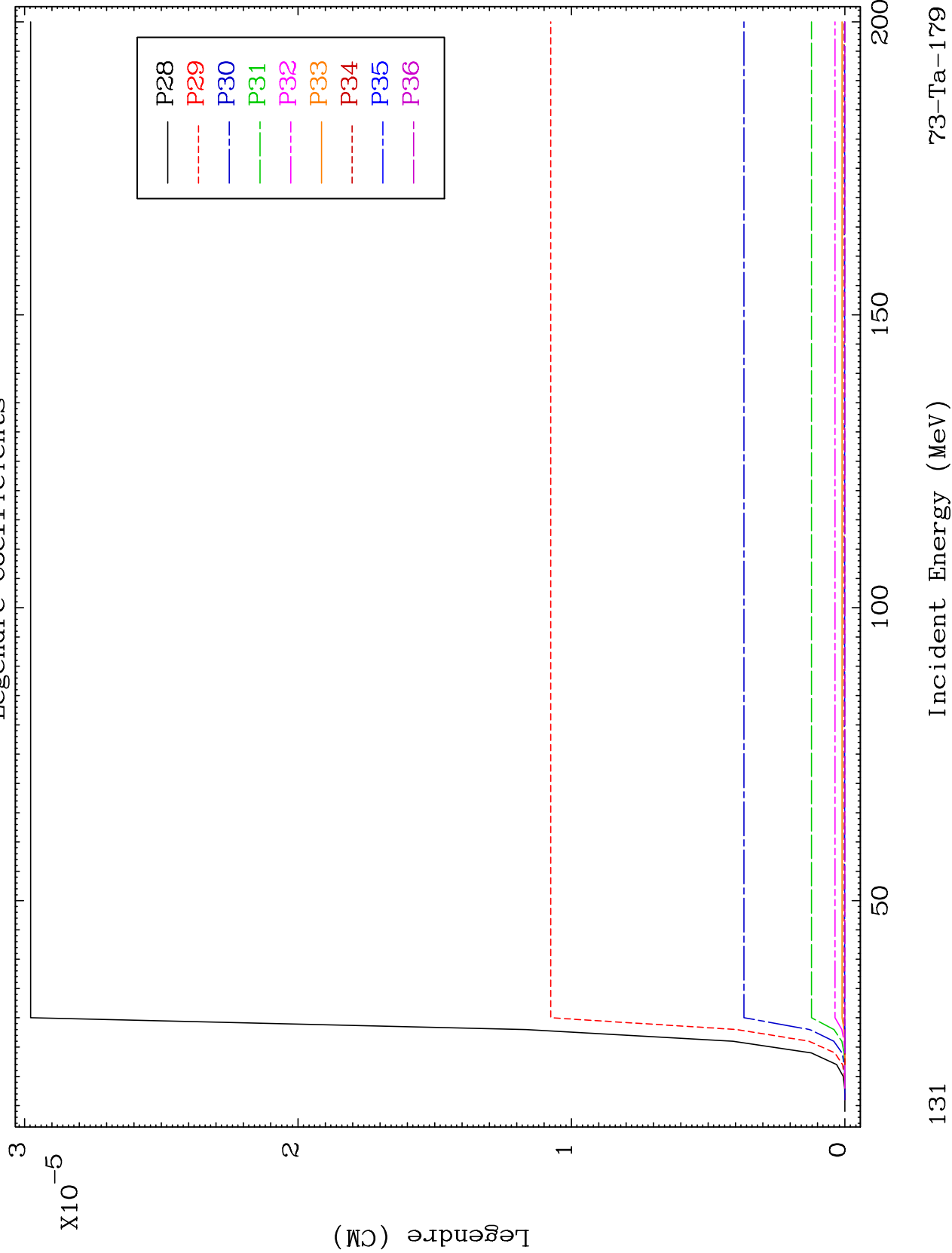




MAT 7322

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

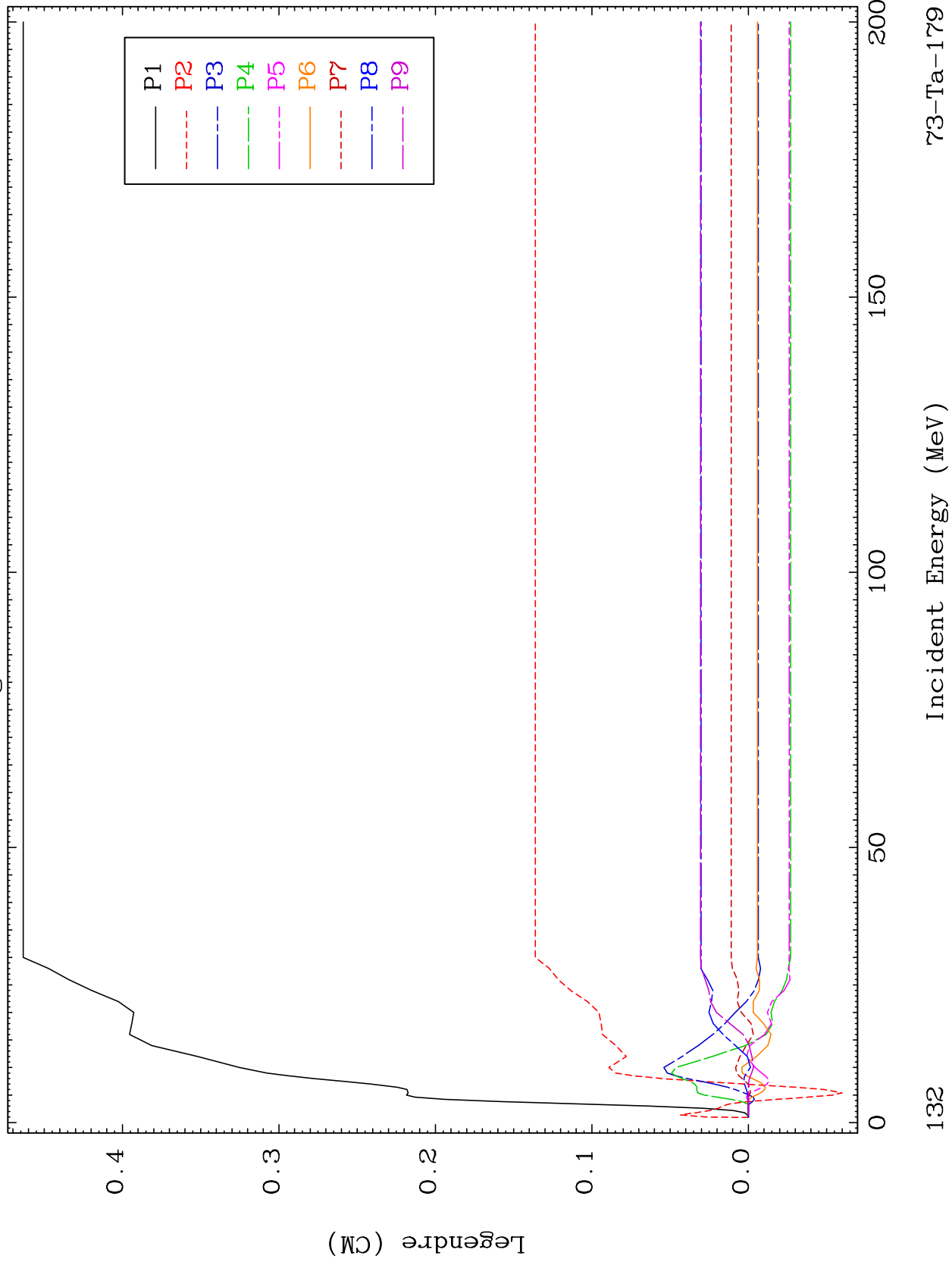
73-Ta-179



MAT 7322

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

73-Ta-179



73-Ta-179

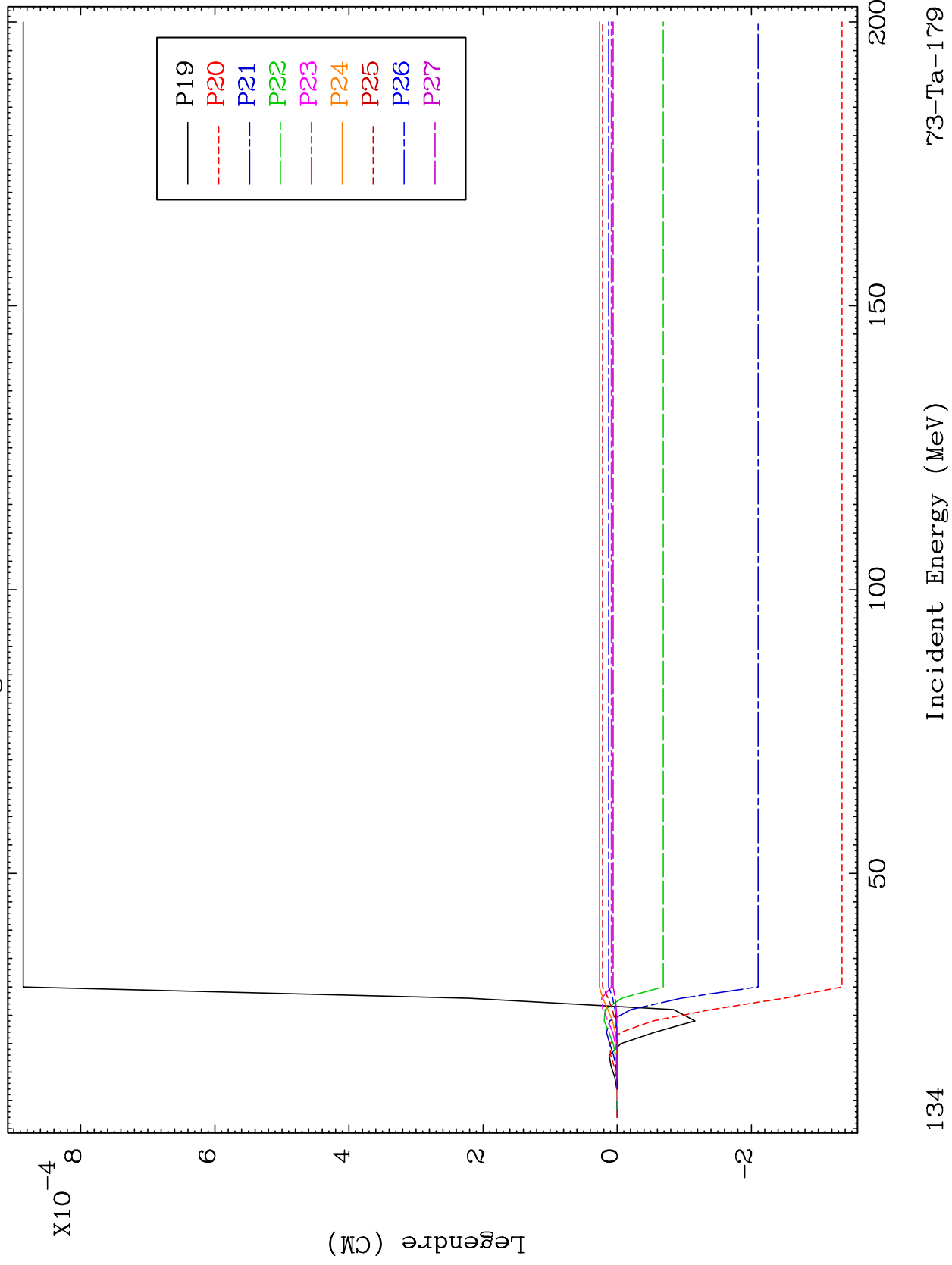
Incident Energy (MeV)

132

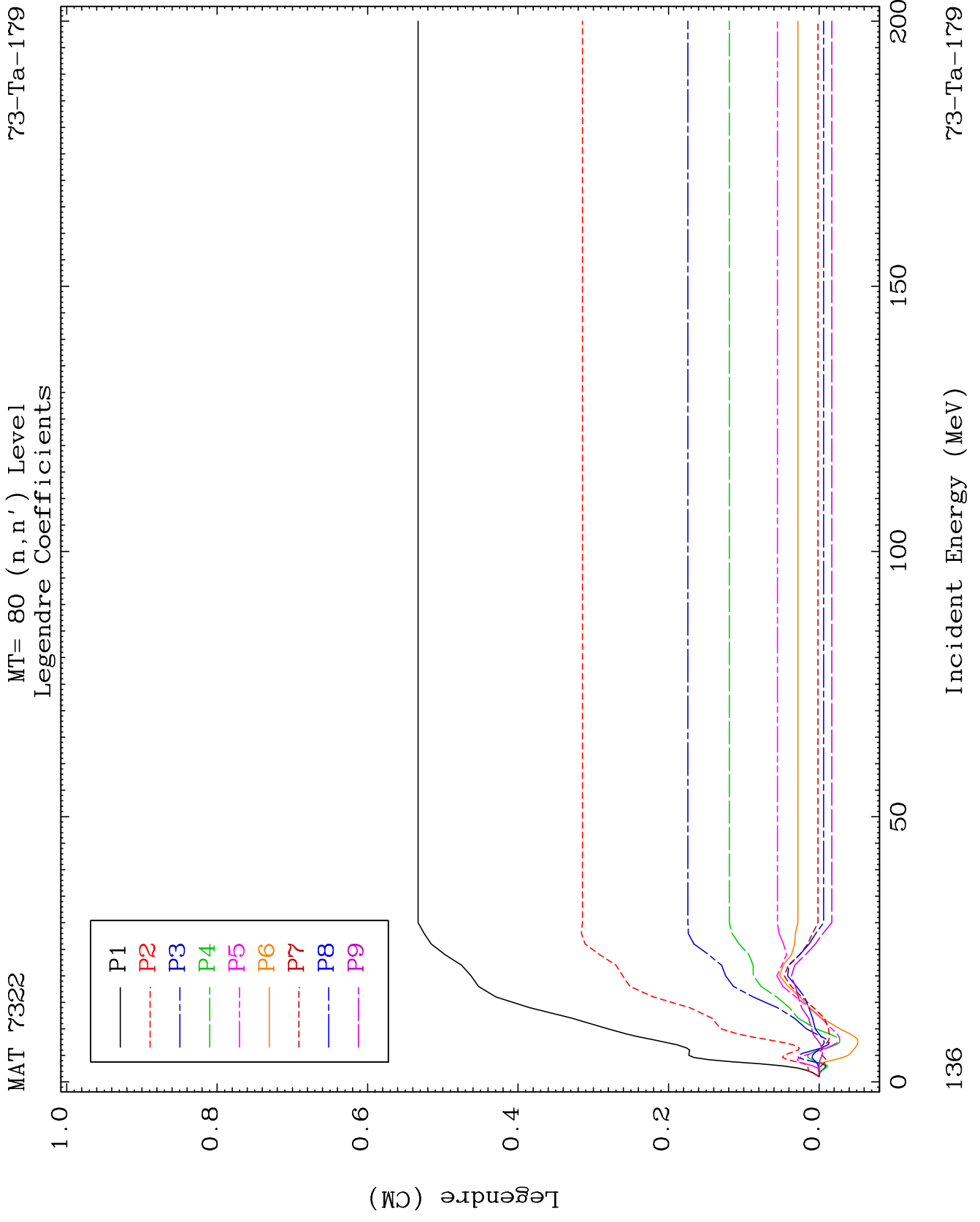
MAT 7322

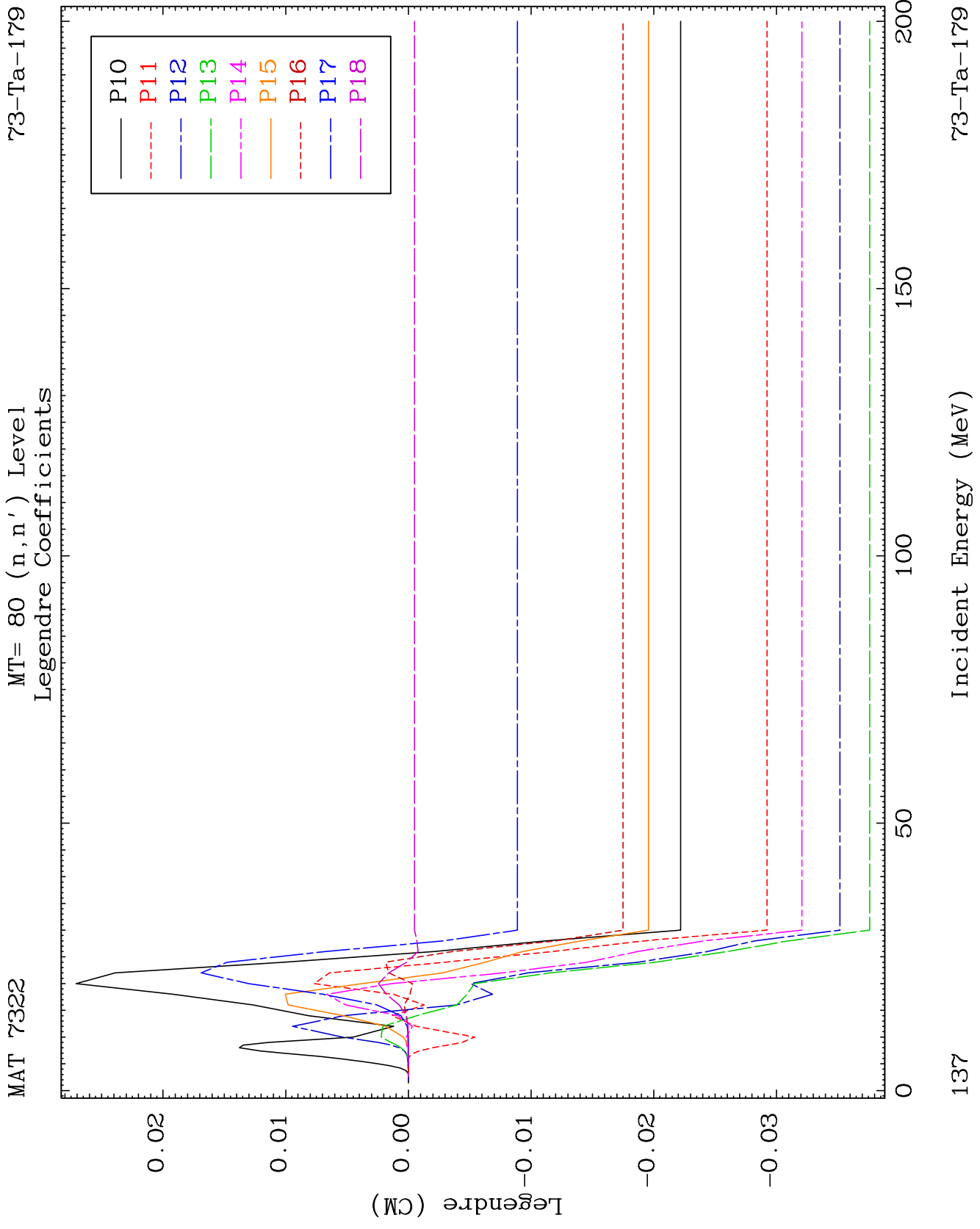
MT= 79 (n,n') Level
Legendre Coefficients

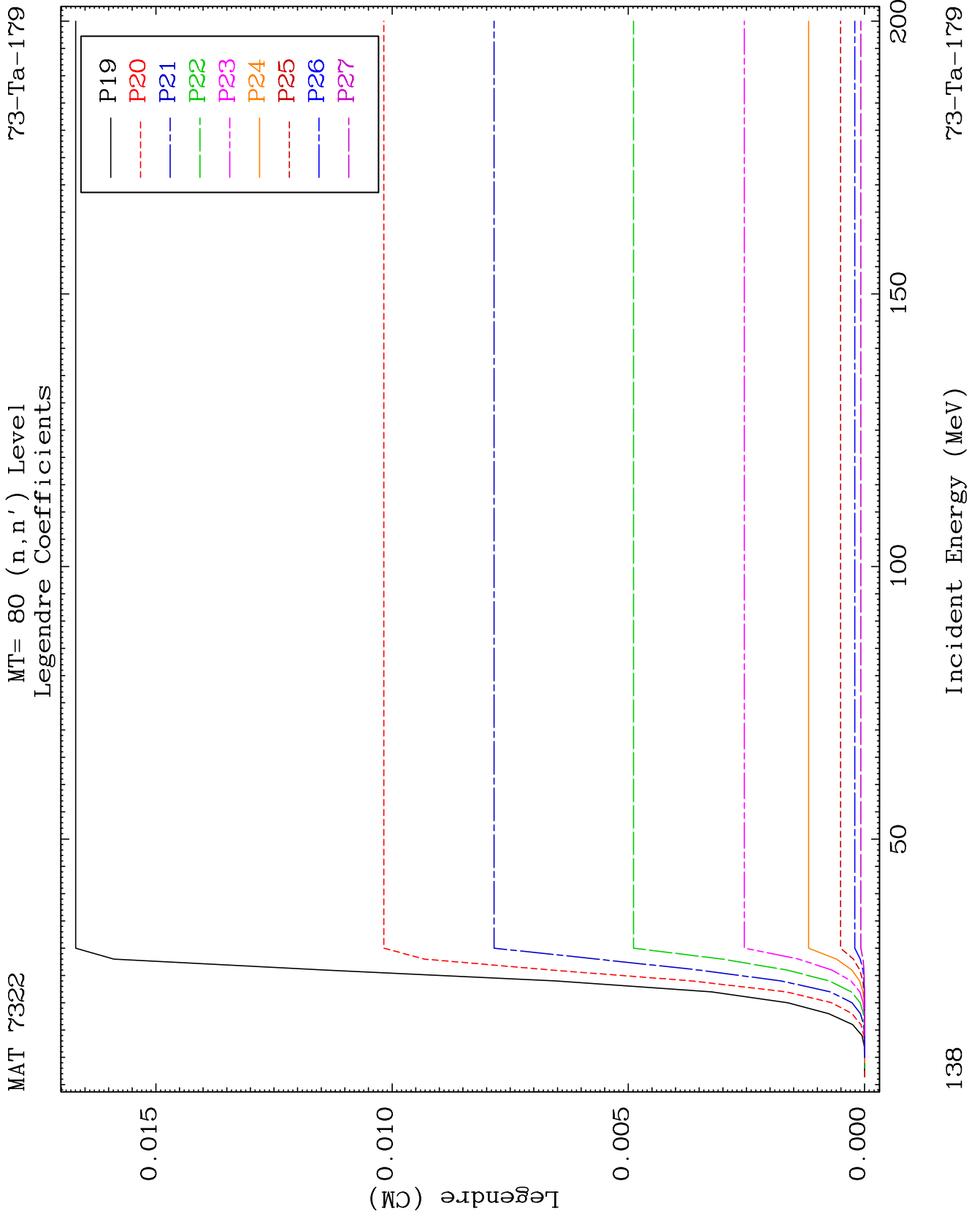
73-Ta-179

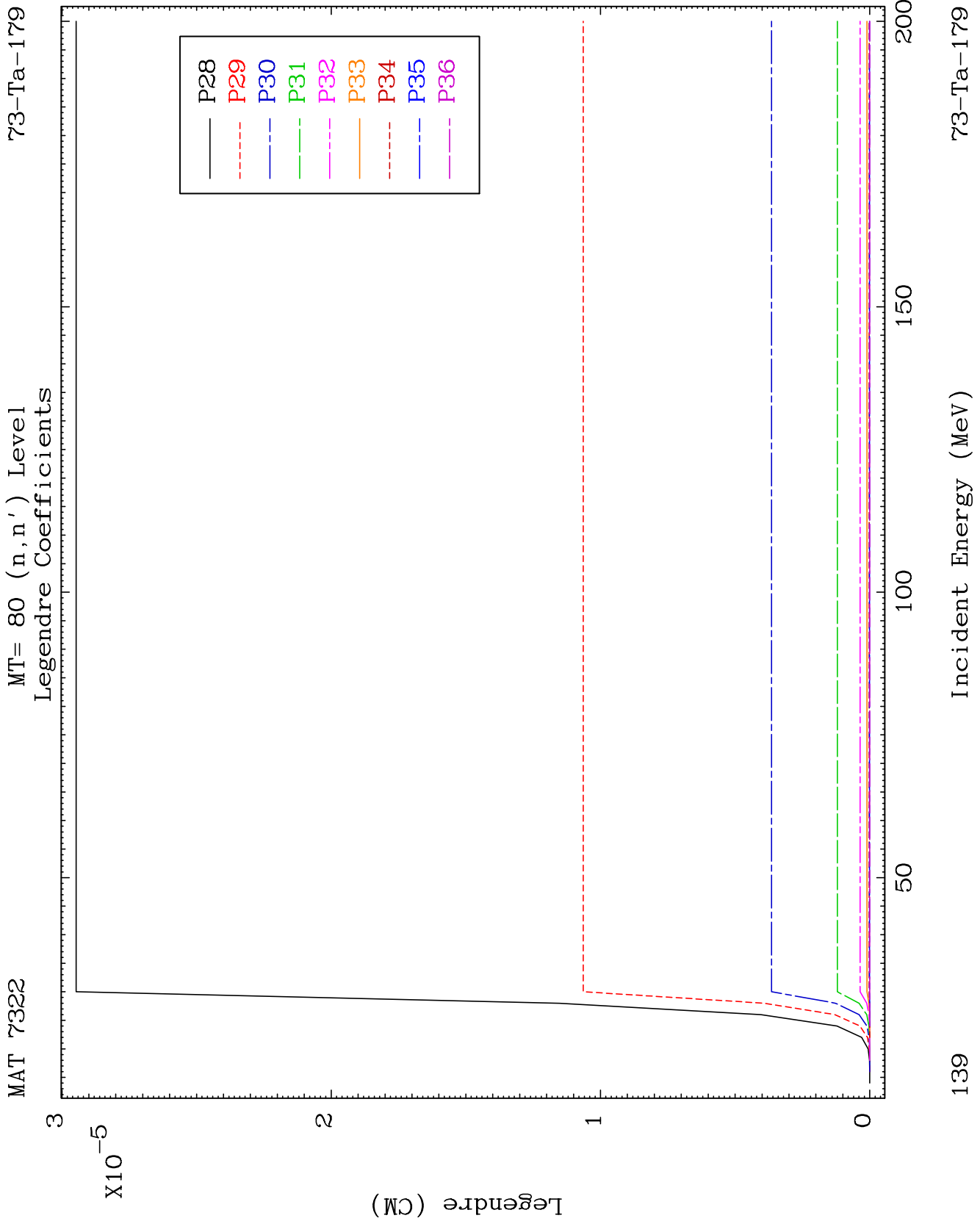


134







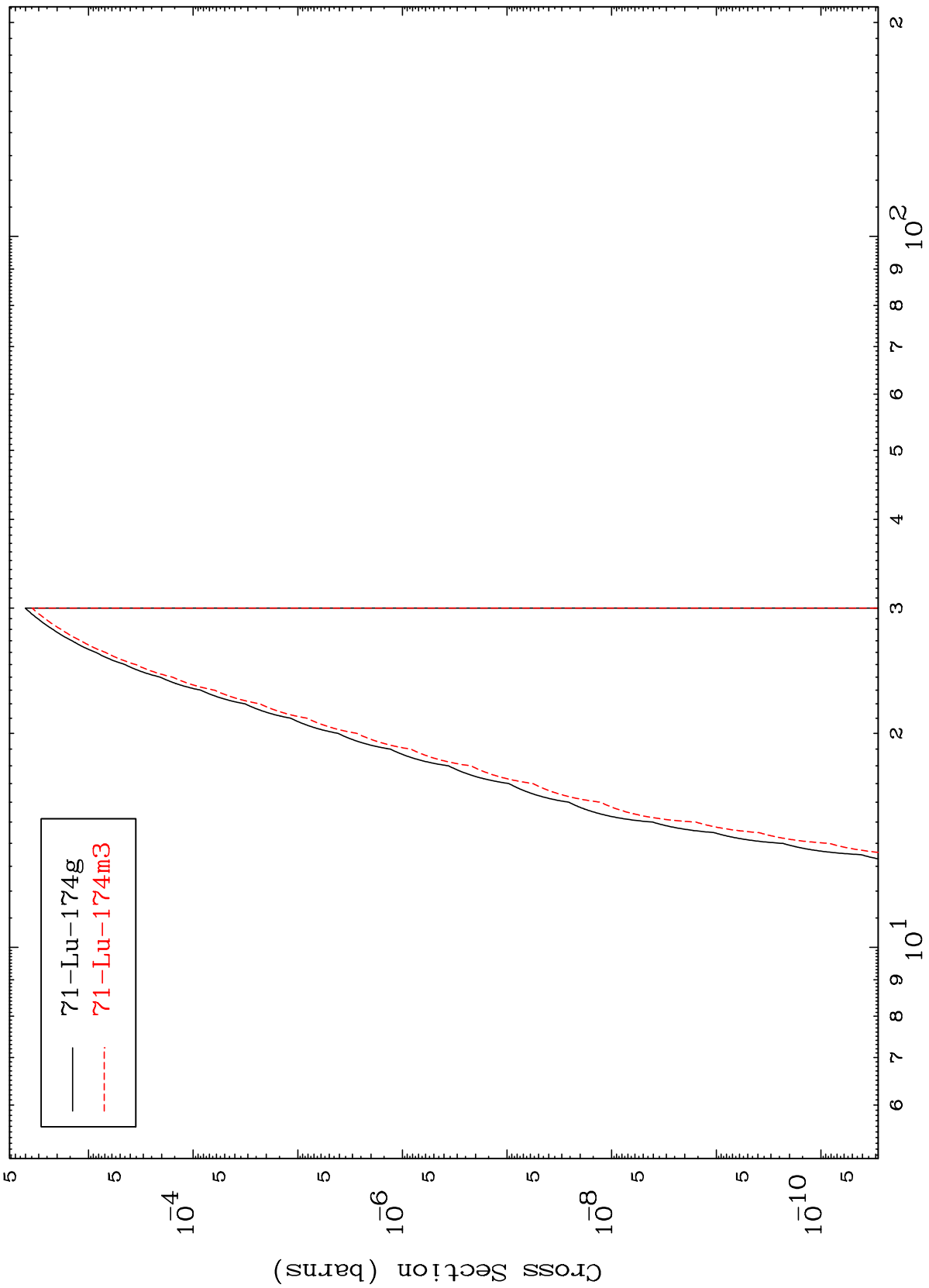


MAT 7322

$(n,2n) \alpha$

$^{73}\text{Ta-179}$

Radionuclide Production Cross Section



71-Lu-174g
71-Lu-174m3

140

Incident Energy (MeV)

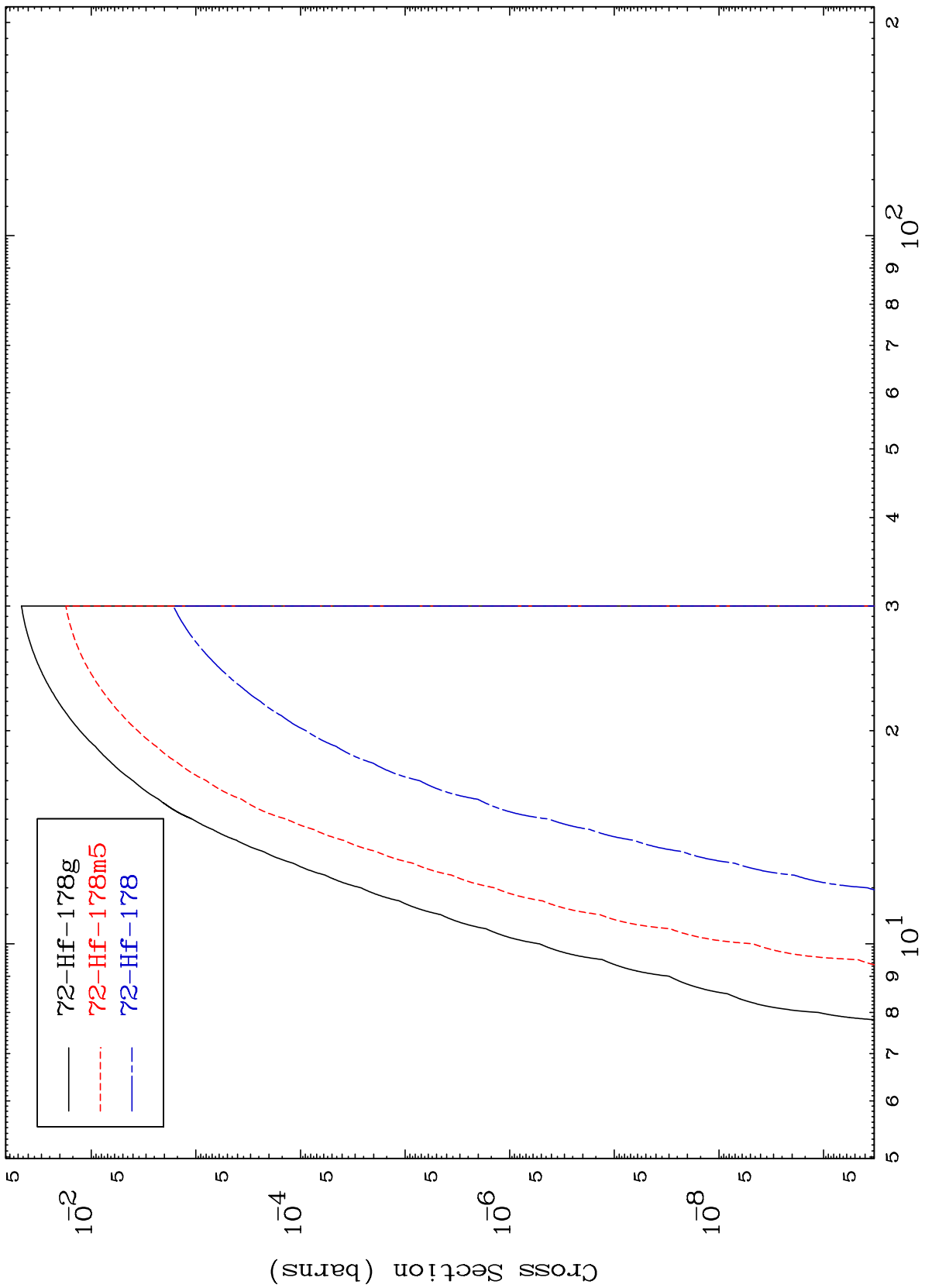
$^{73}\text{Ta-179}$

MAT 7322

(n,n') p

73-Ta-179

Radionuclide Production Cross Section



141

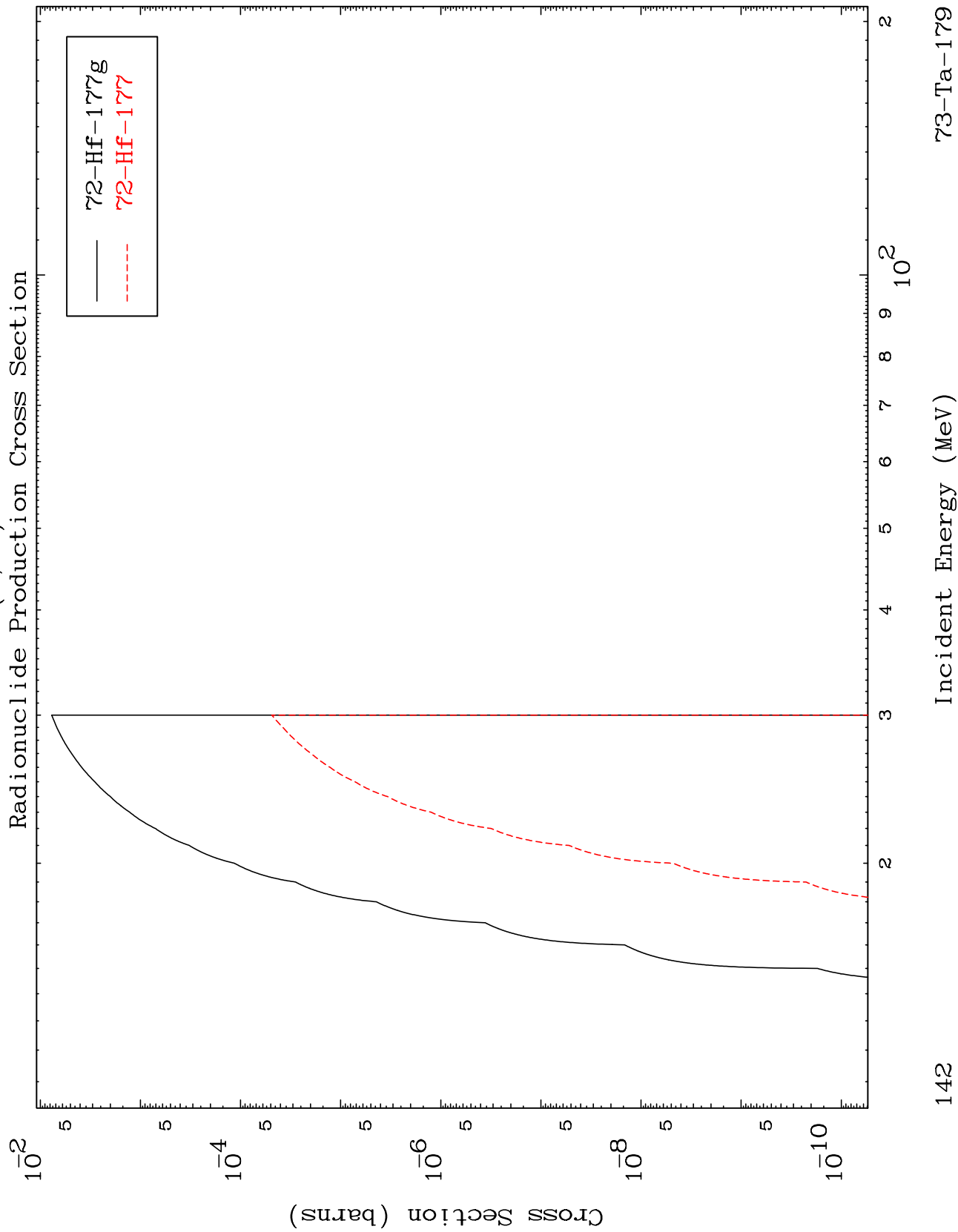
Incident Energy (MeV)

73-Ta-179

MAT 7322

(n,n') d

73-Ta-179



142

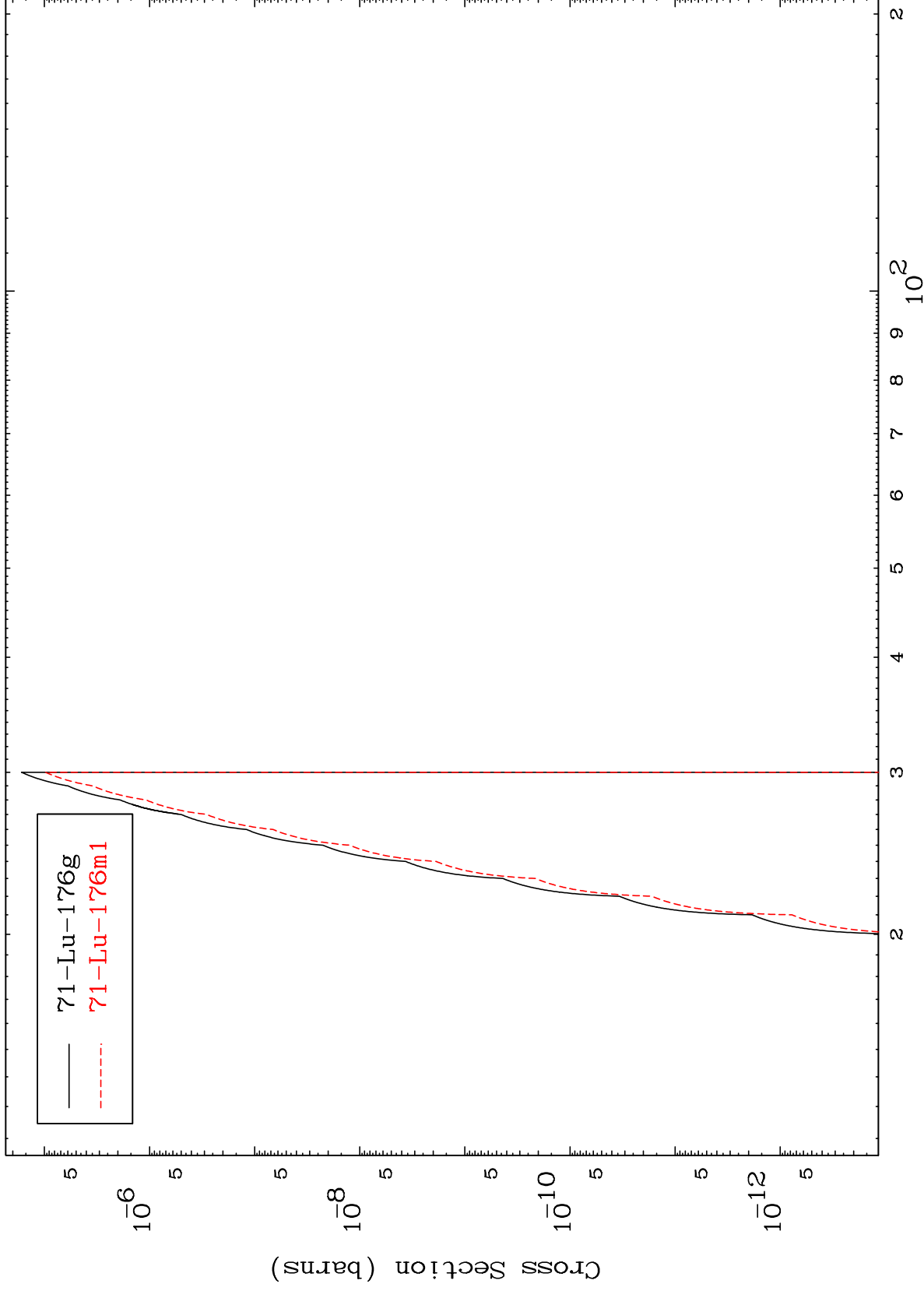
73-Ta-179

MAT 7322

(n,n') He-3

73-Ta-179

Radionuclide Production Cross Section



Incident Energy (MeV)

73-Ta-179

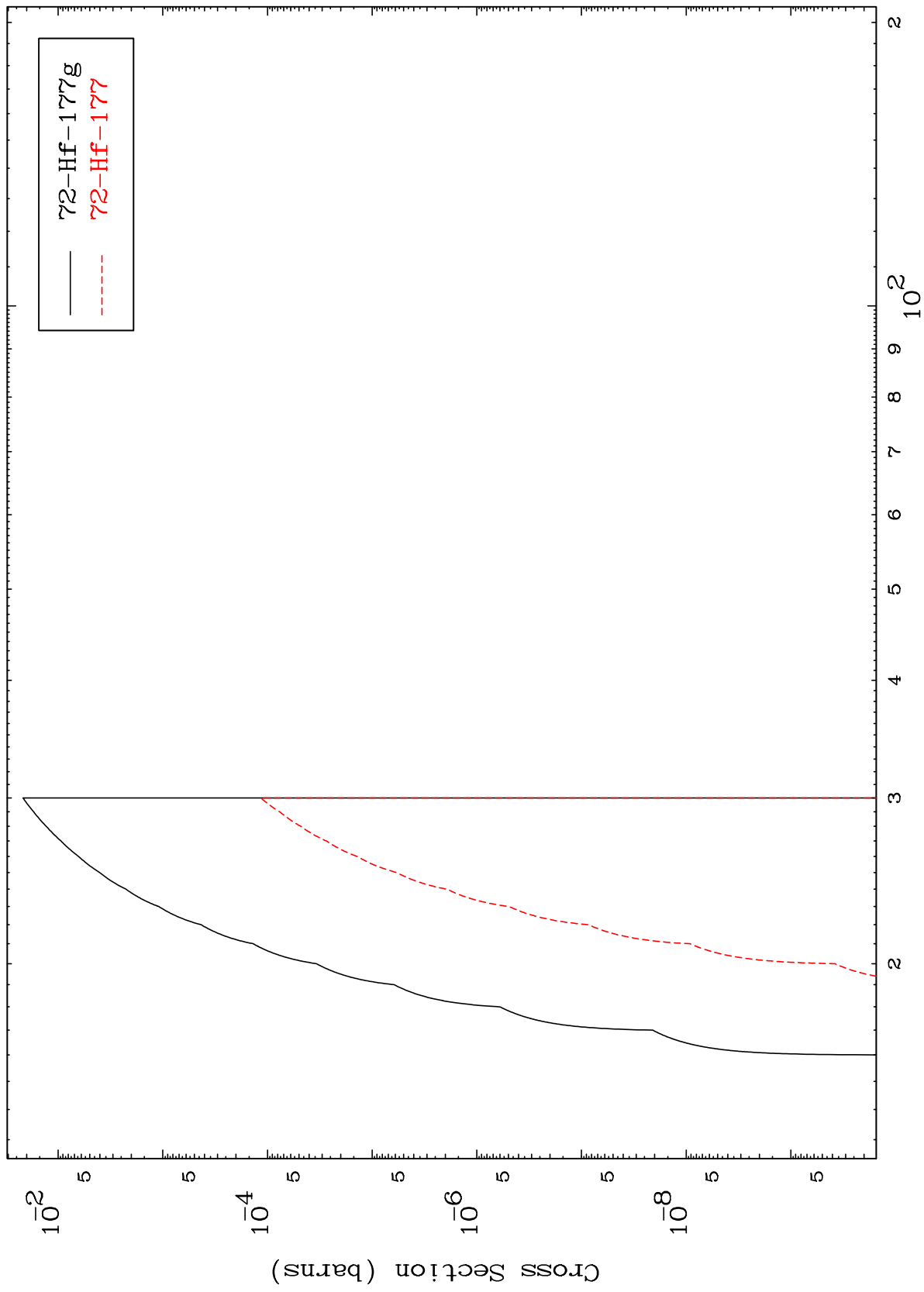
143

MAT 7322

(n,2n) p

73-Ta-179

Radionuclide Production Cross Section



144

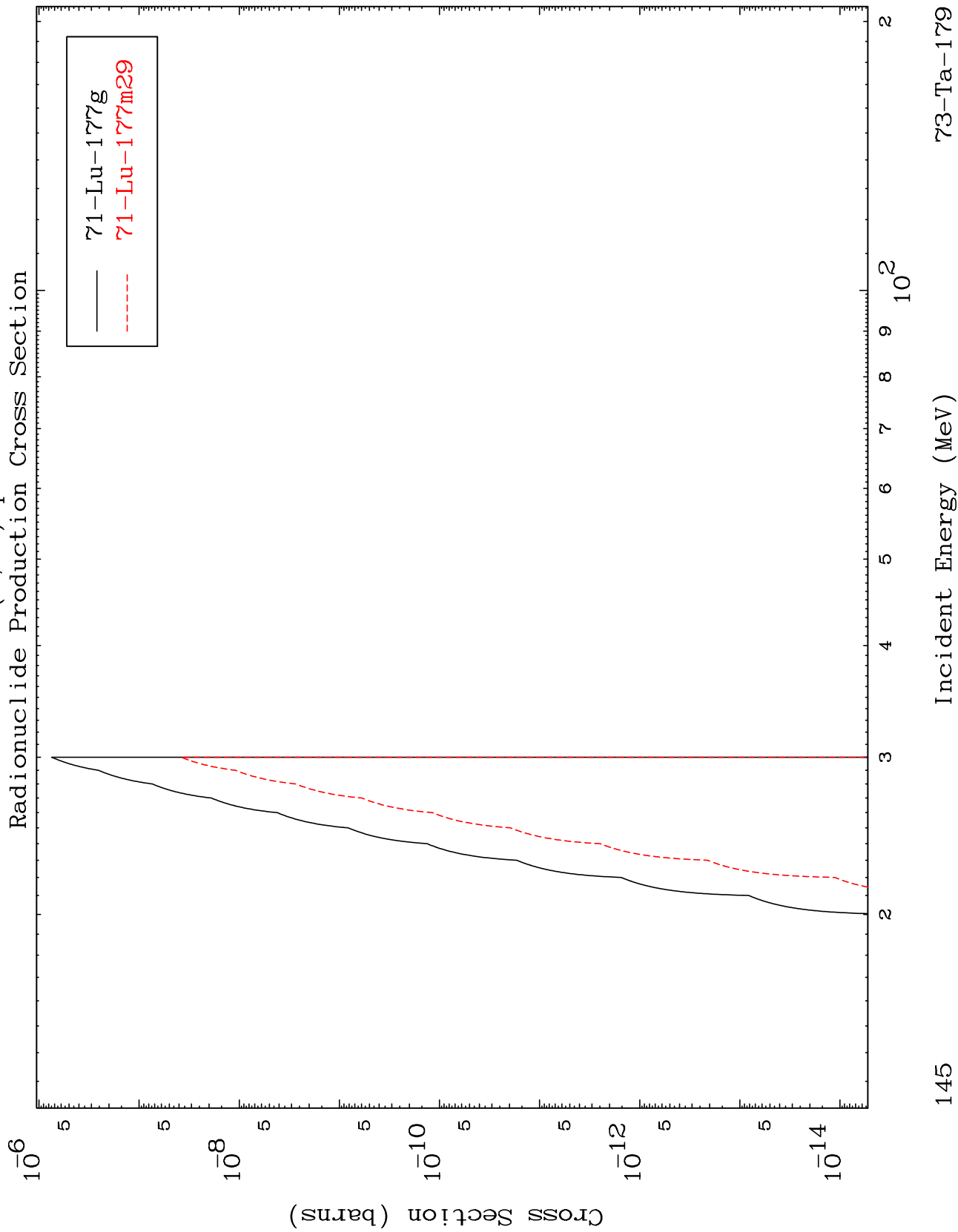
Incident Energy (MeV)

73-Ta-179

MAT 7322

(n,2n) p

73-Ta-179



145

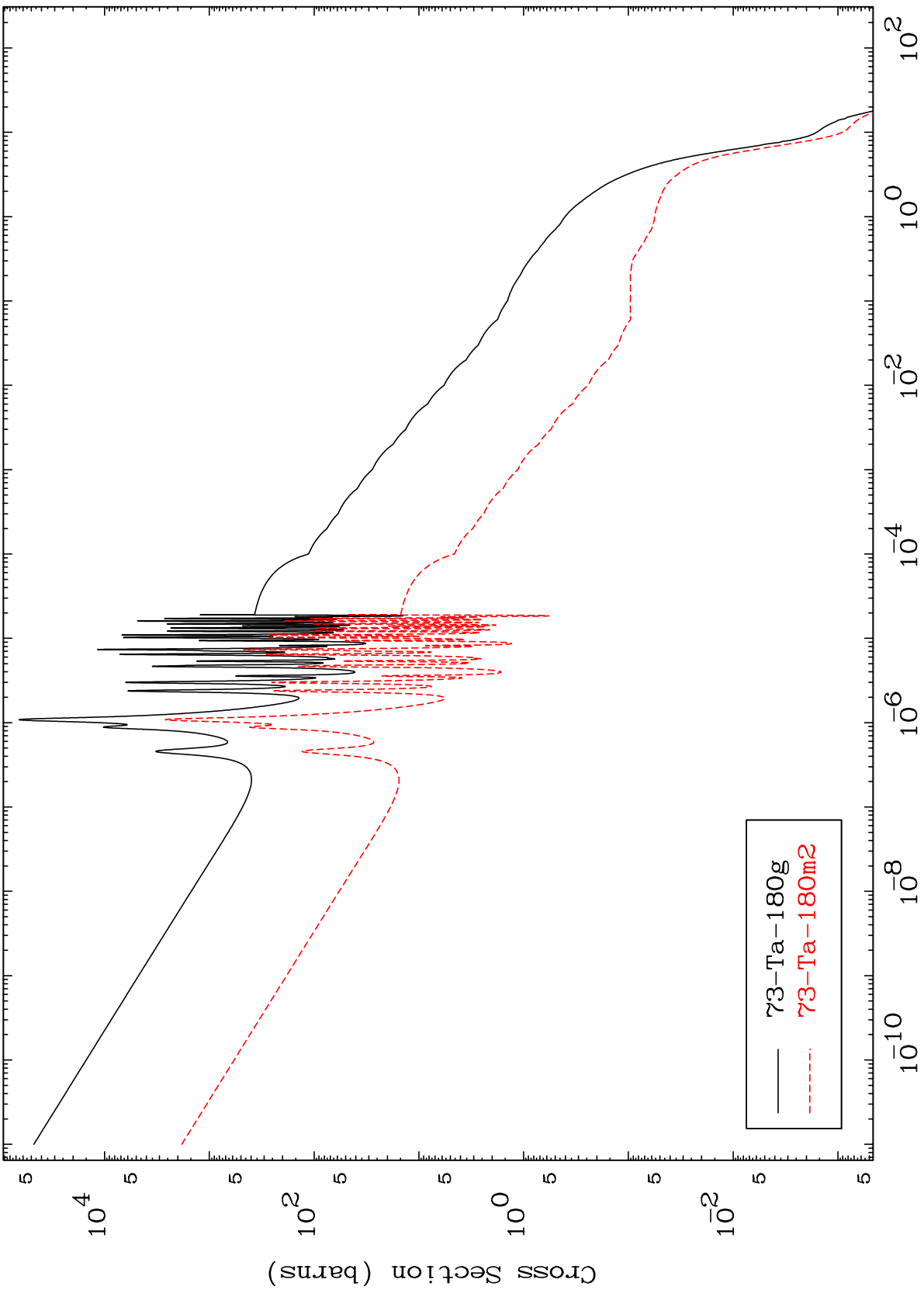
73-Ta-179

MAT 7322

⁷³Ta-179

Radionuclide Production Cross Section

(n,γ)



⁷³Ta-179

Incident Energy (MeV)

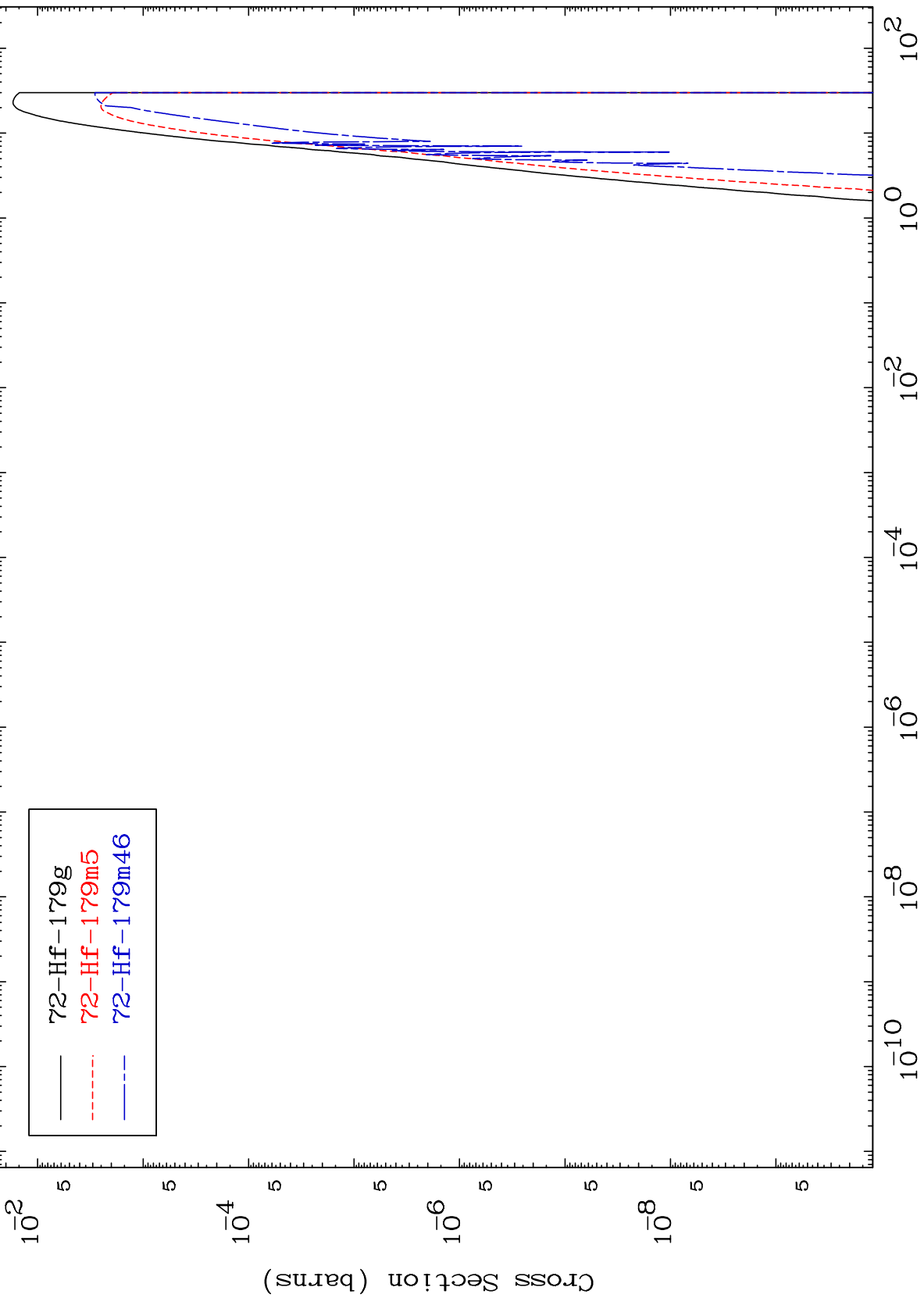
146

MAT 7322

(n,p)

73-Ta-179

Radionuclide Production Cross Section

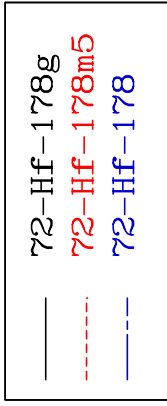
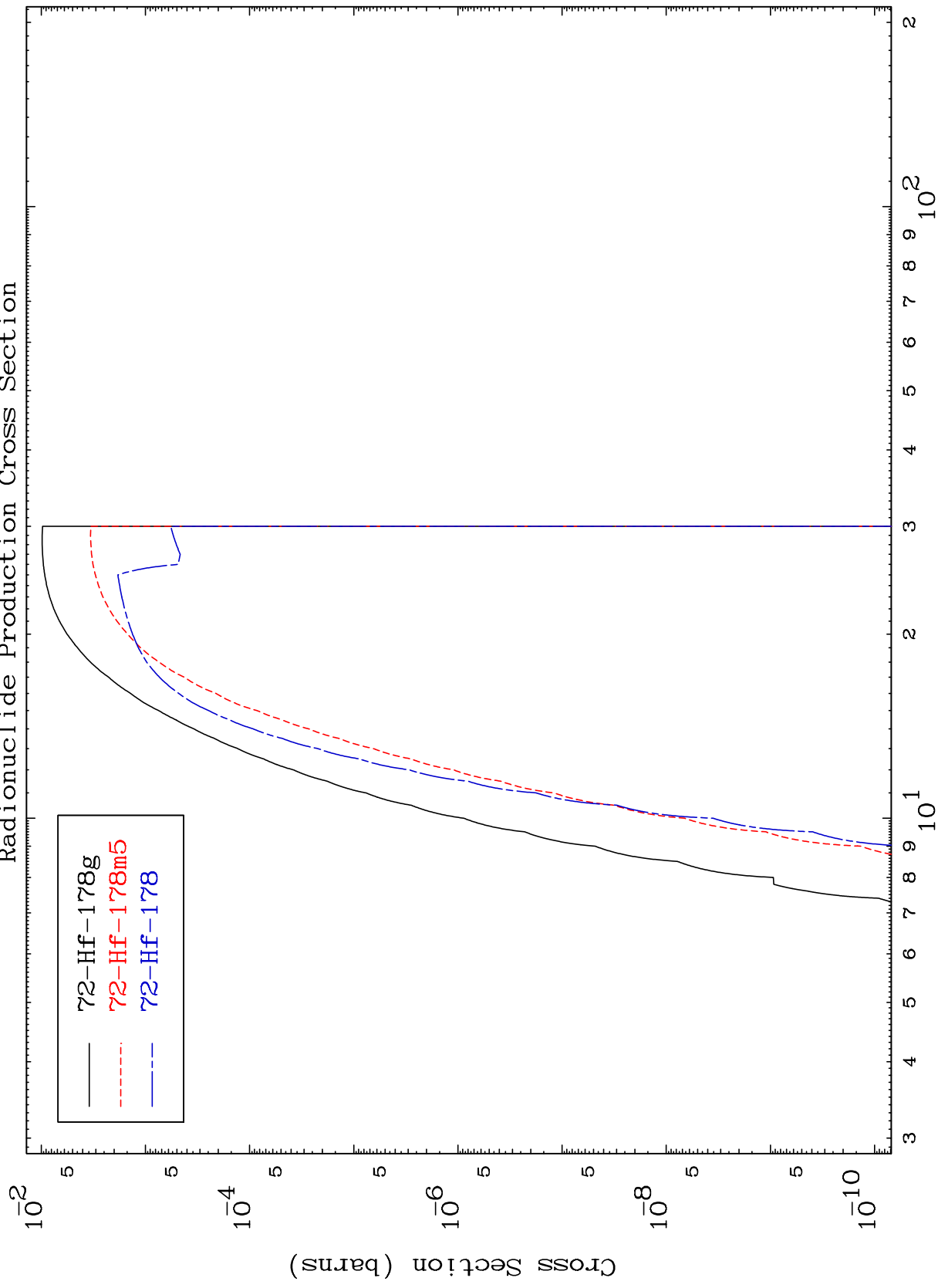


MAT 7322

(n,d)

⁷³Ta-179

Radionuclide Production Cross Section



148

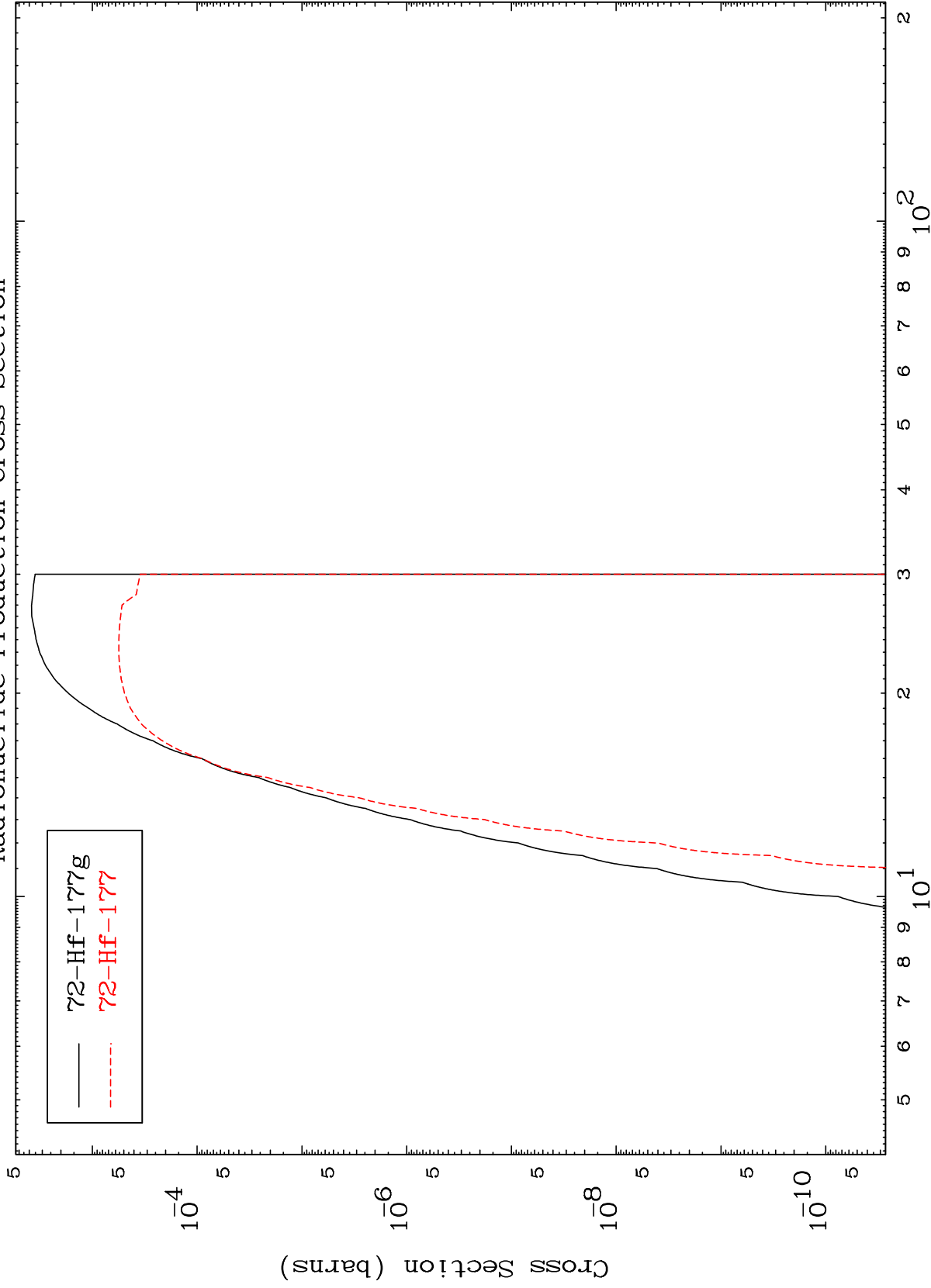
Incident Energy (MeV)

⁷³Ta-179

MAT 7322

73-Ta-179

Radionuclide Production Cross Section (n, t)



149

Incident Energy (MeV)

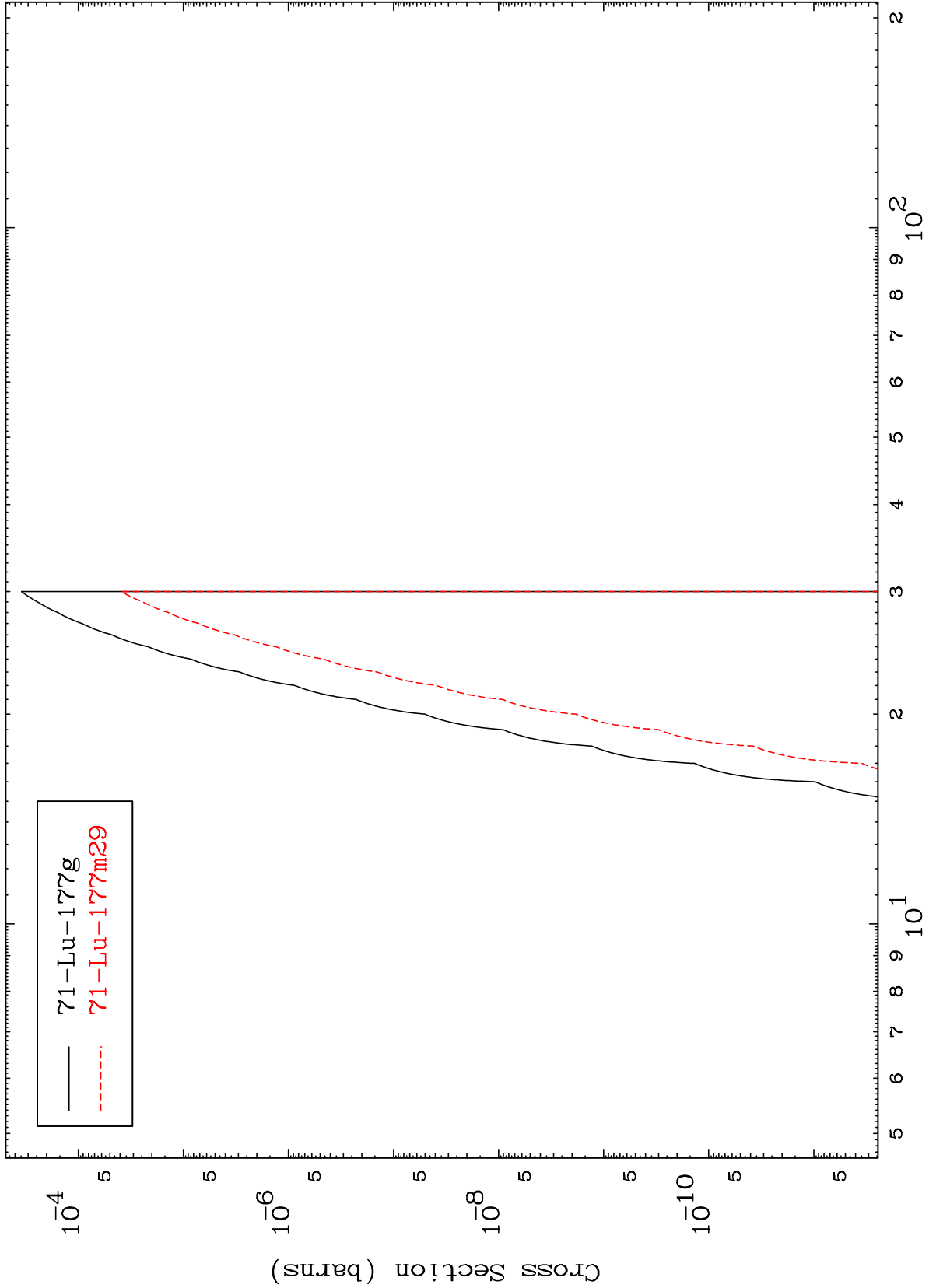
73-Ta-179

MAT 7322

(n,He-3)

73-Ta-179

Radionuclide Production Cross Section



— $^{71}\text{Lu-177g}$
- - - $^{71}\text{Lu-177m29}$

150

Incident Energy (MeV)

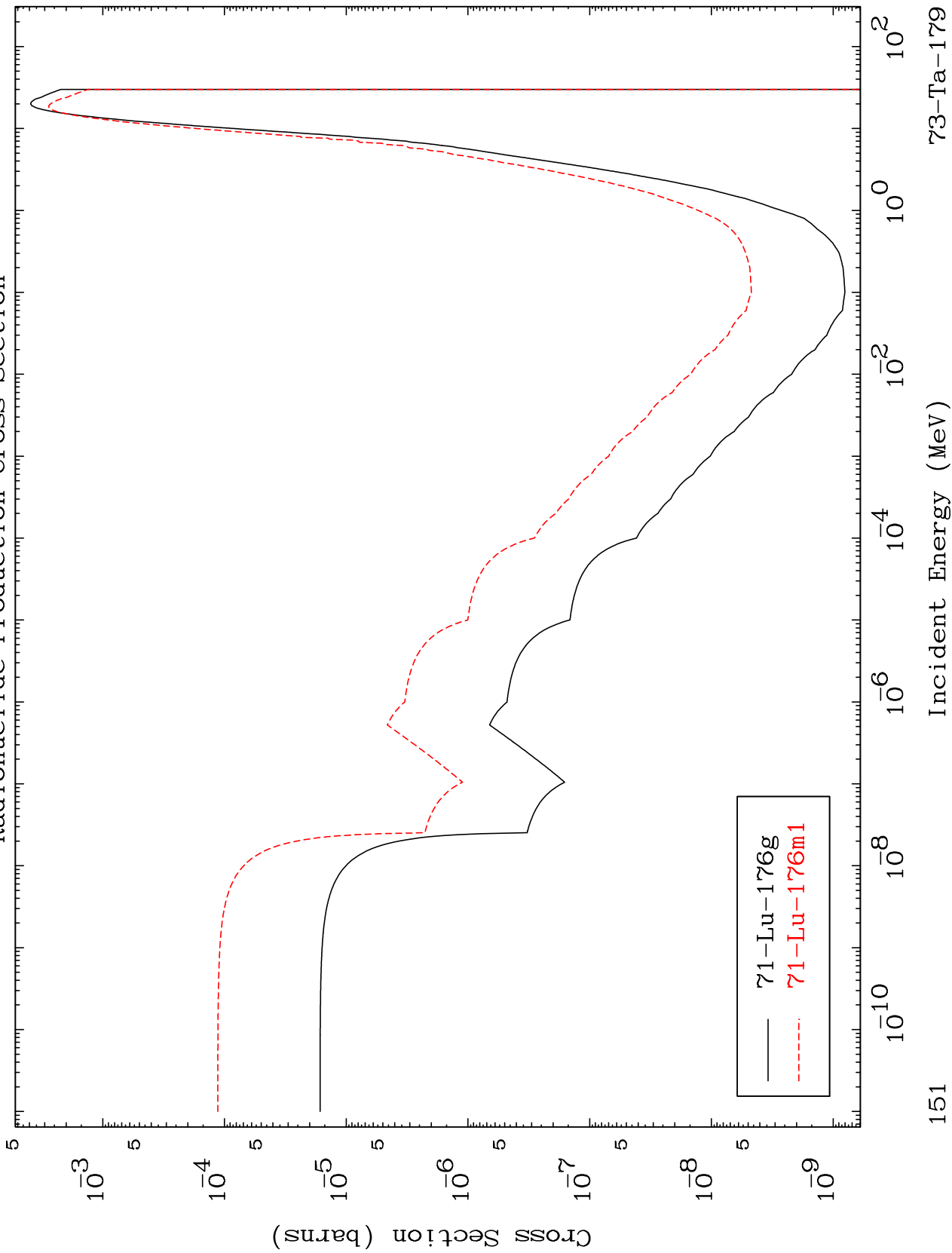
73-Ta-179

MAT 7322

(n, α)

⁷³Ta-179

Radionuclide Production Cross Section



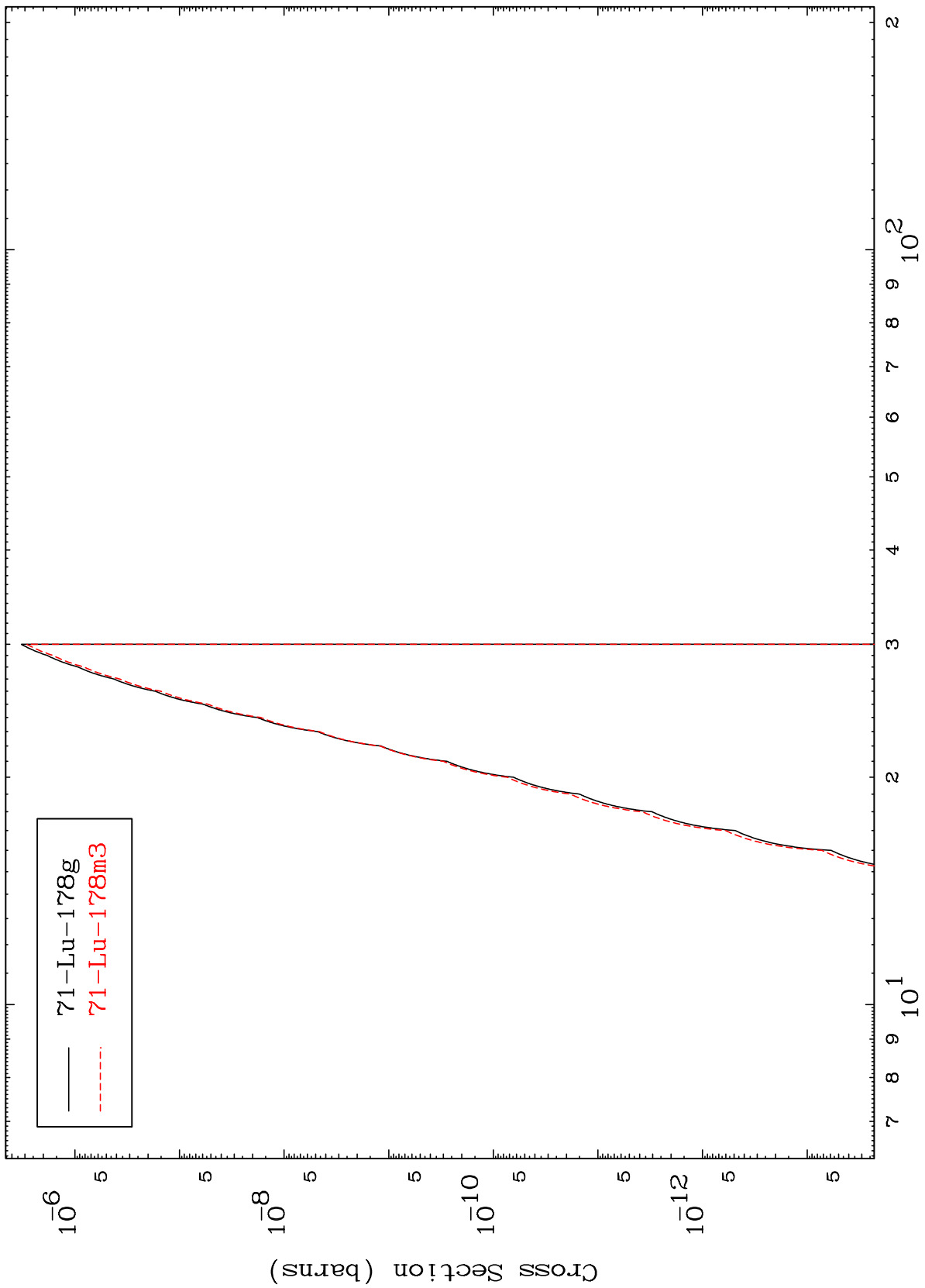
151

⁷³Ta-179

MAT 7322

73-Ta-179

(n,2p)
Radionuclide Production Cross Section

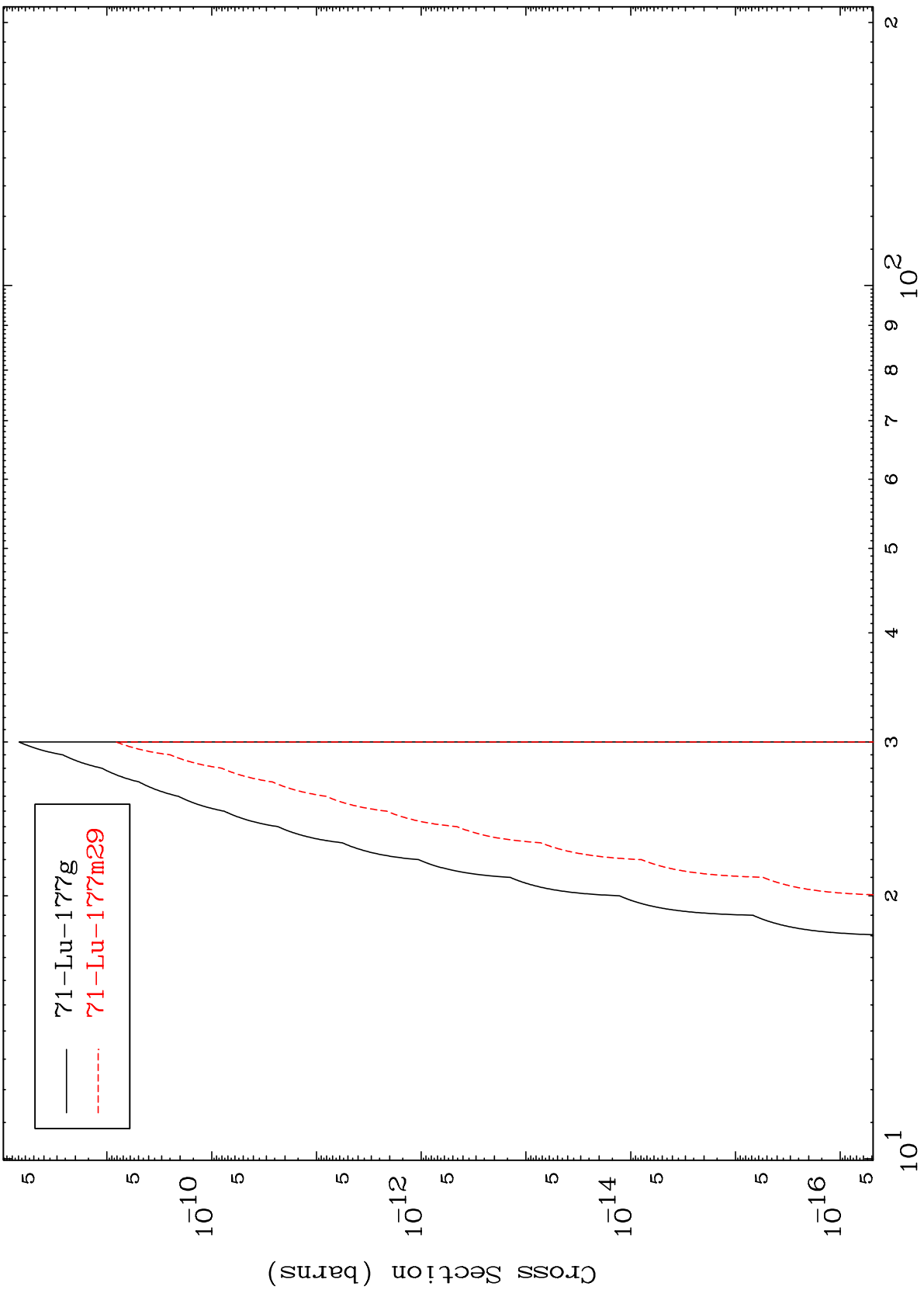


MAT 7322

(n,p) d

⁷³Ta-179

Radionuclide Production Cross Section



153

Incident Energy (MeV)

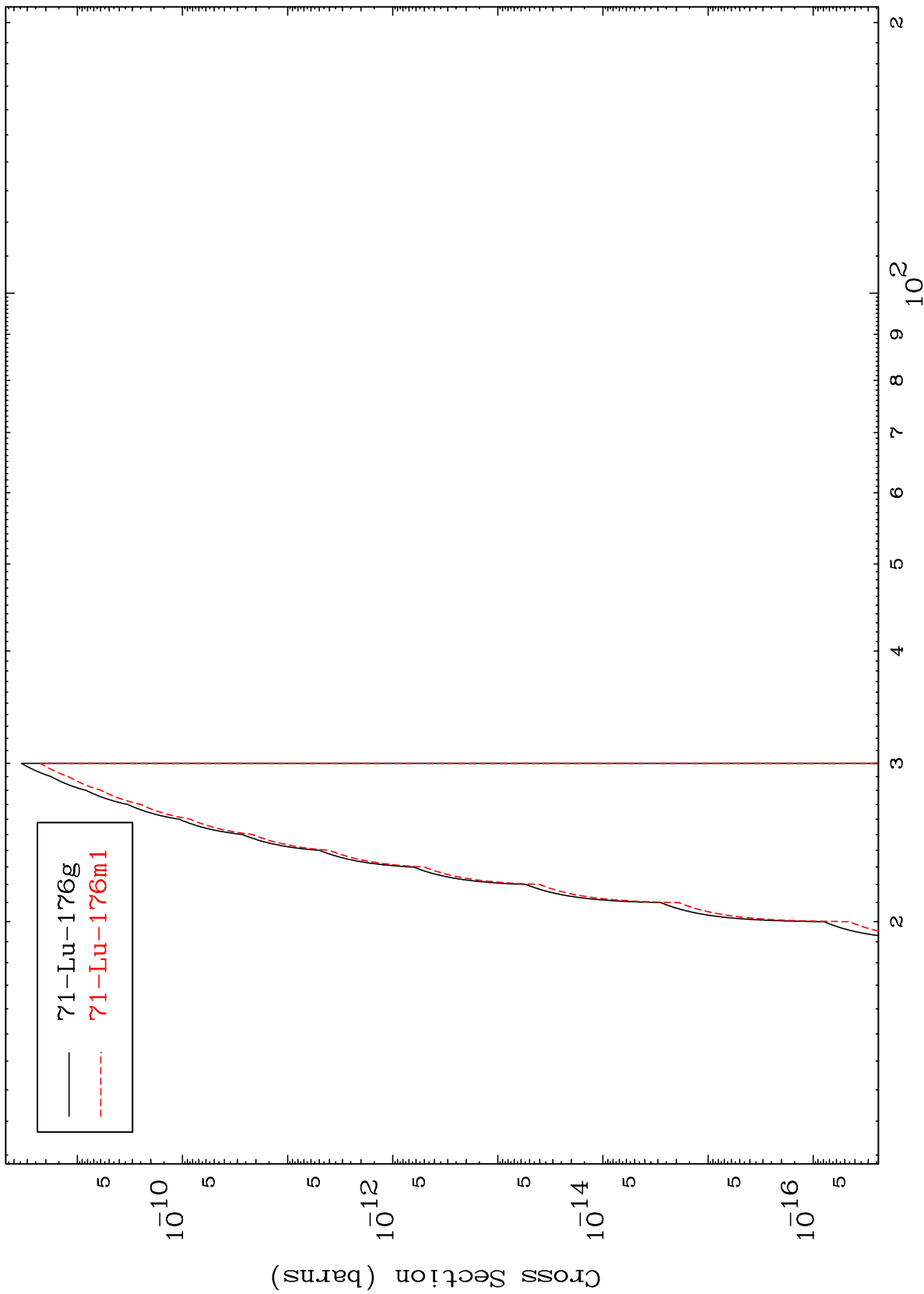
⁷³Ta-179

MAT 7322

(n,p) t

⁷³Ta-179

Radionuclide Production Cross Section



154

Incident Energy (MeV)

⁷³Ta-179