

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

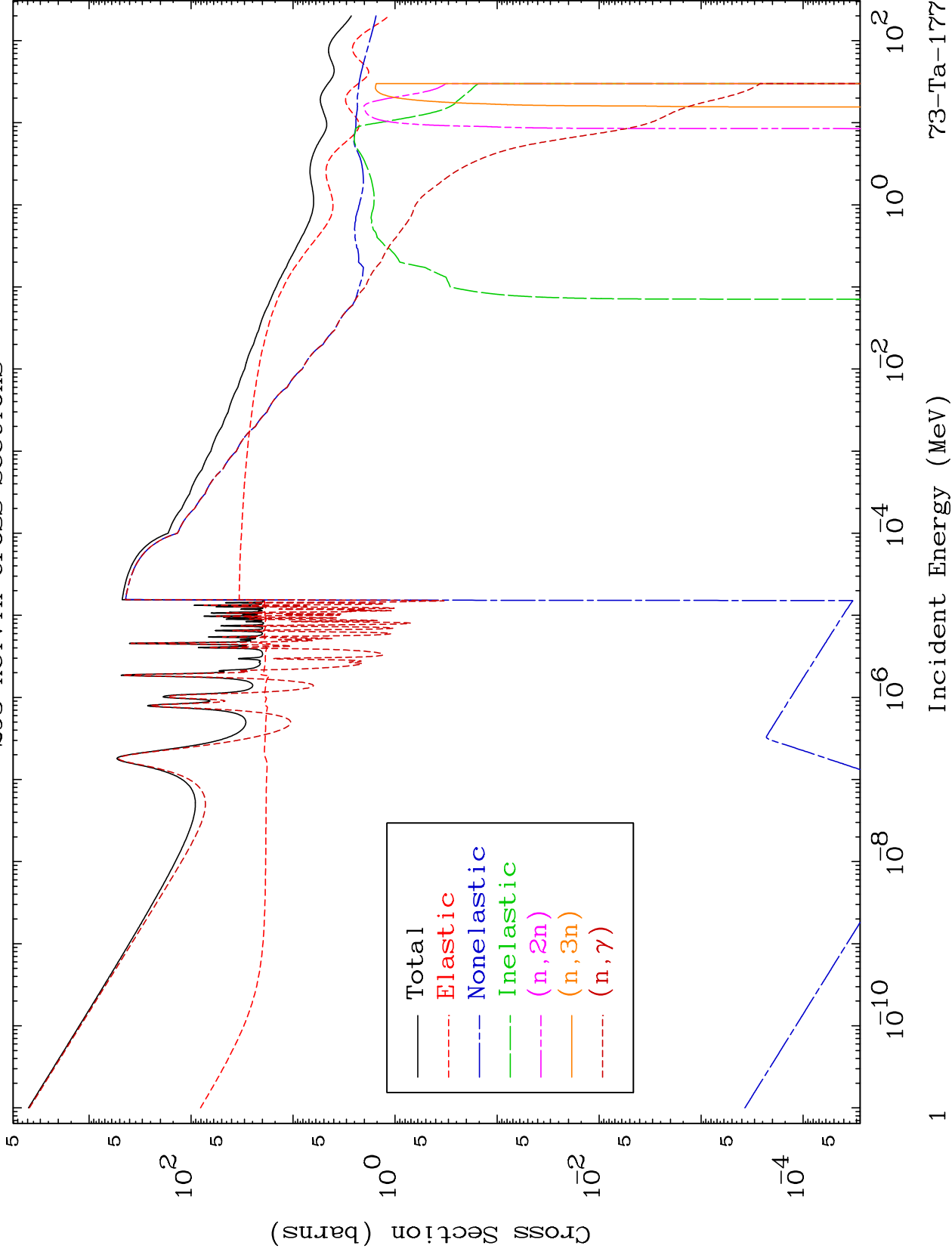
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 7316

Neutron Major
293 Kelvin Cross Sections

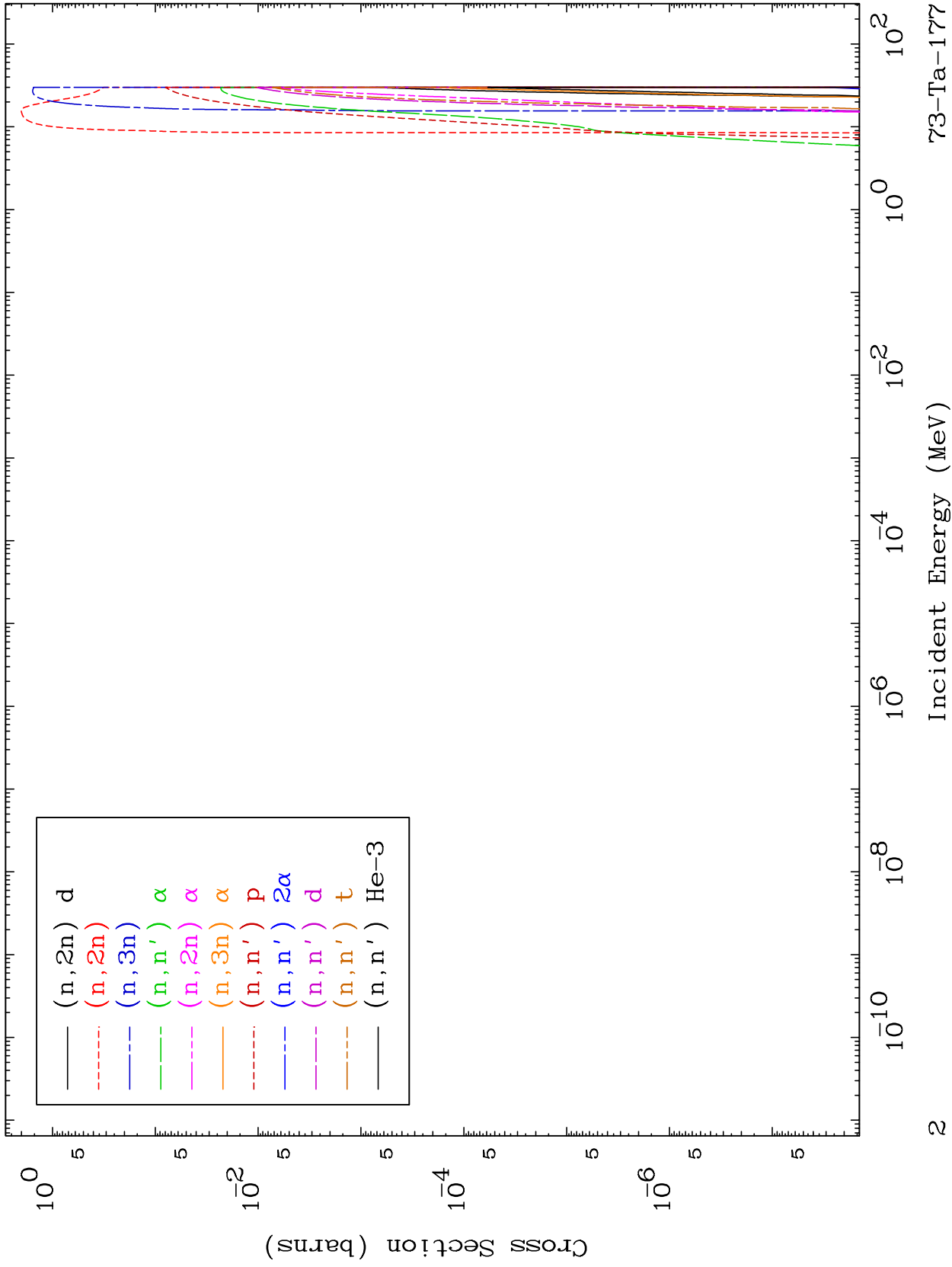
73-Ta-177



MAT 7316

Neutron Absorption
293 Kelvin Cross Sections

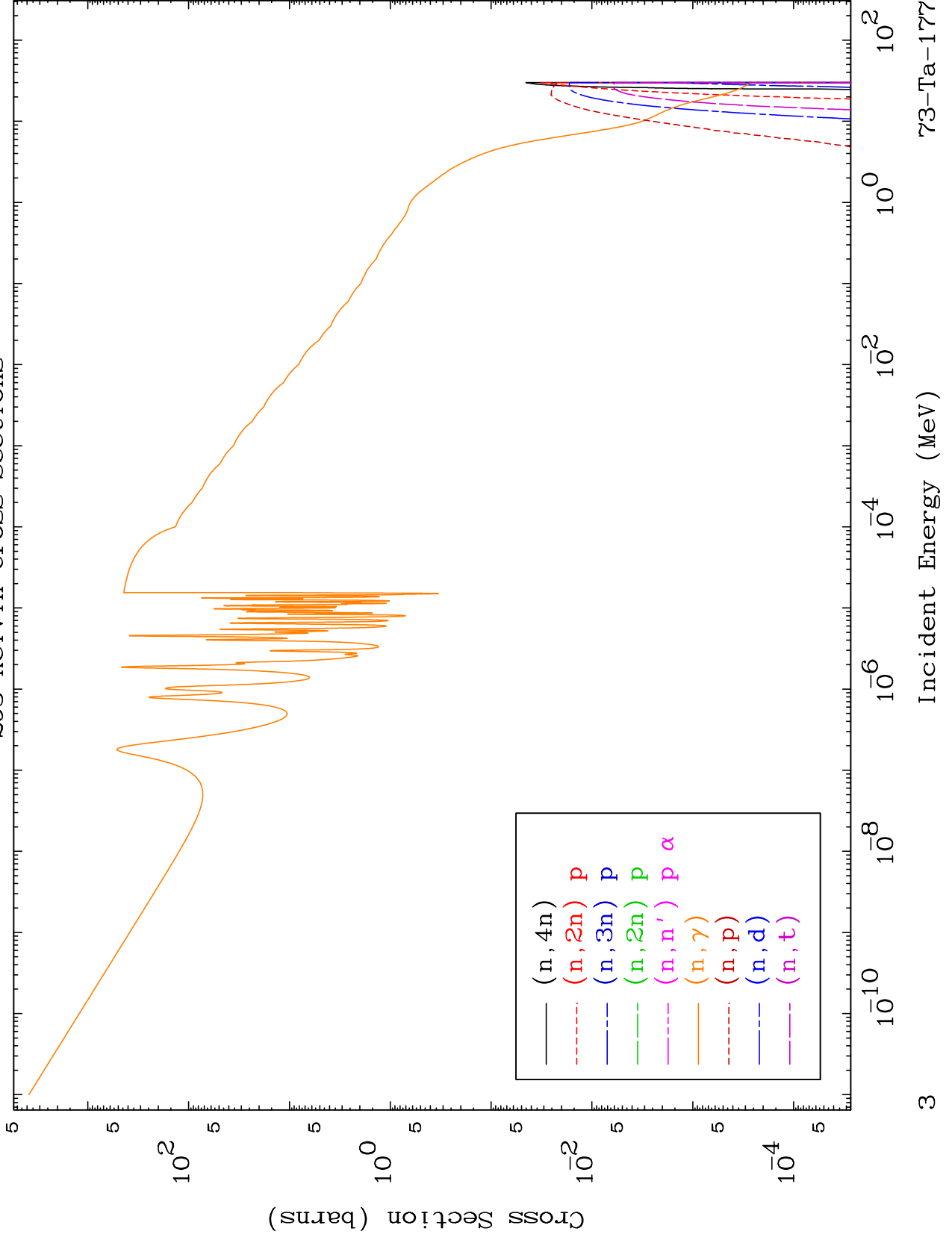
73-Ta-177



MAT 7316

Neutron Absorption
293 Kelvin Cross Sections

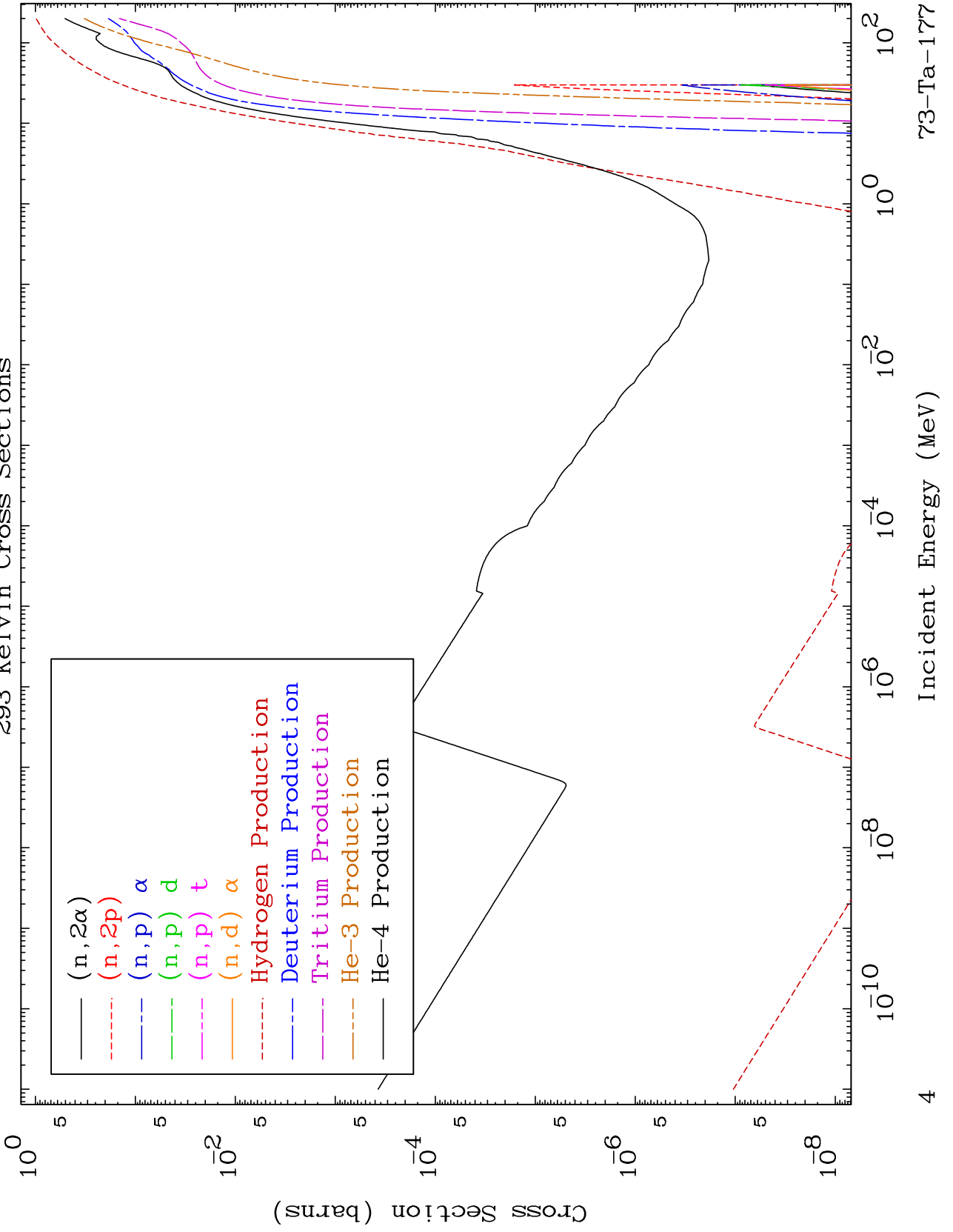
⁷³Ta-177



MAT 7316

Neutron Absorption
293 Kelvin Cross Sections

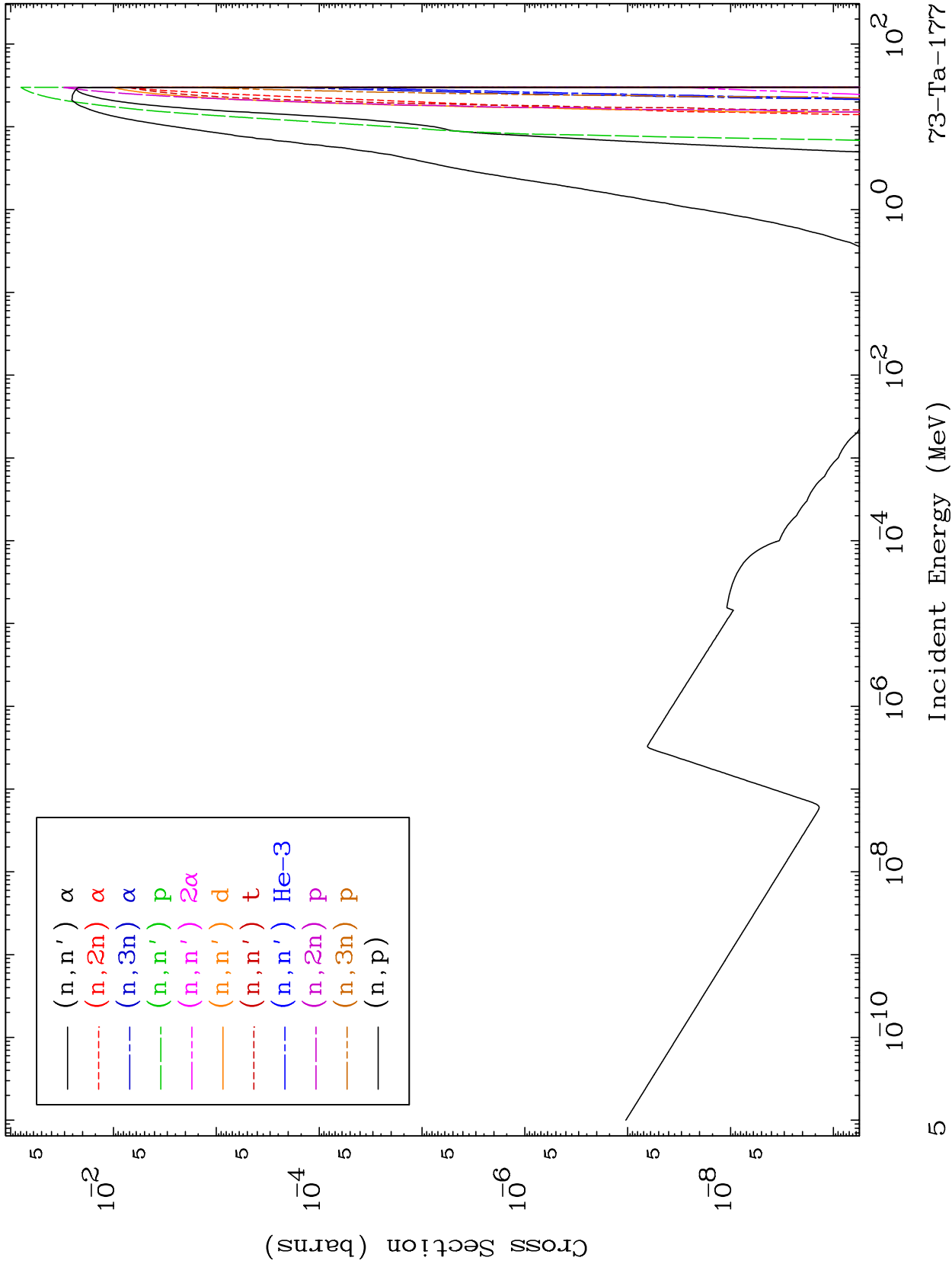
73-Ta-177



MAT 7316

Charged Particle
293 Kelvin Cross Sections

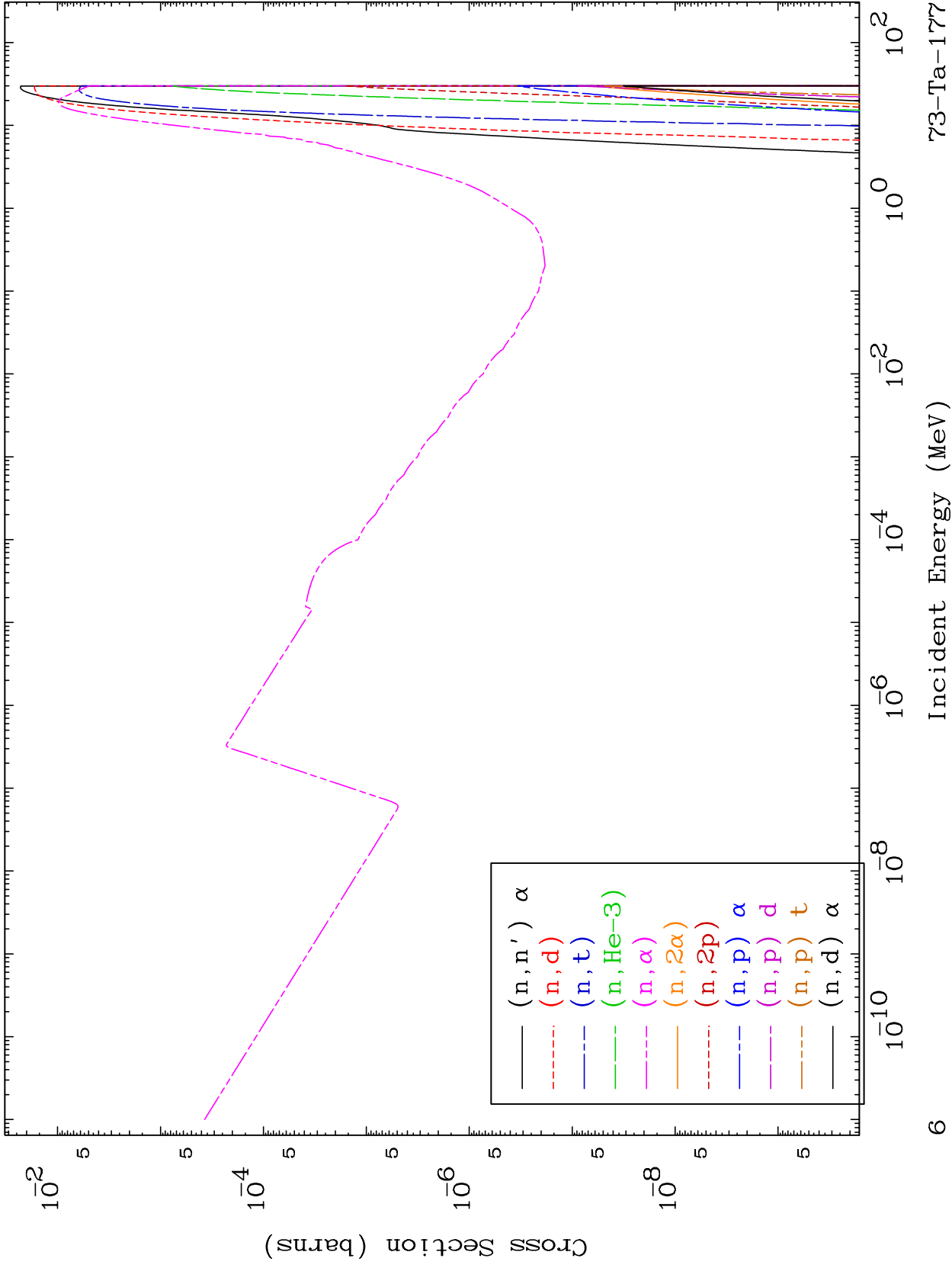
73-Ta-177



MAT 7316

Charged Particle
293 Kelvin Cross Sections

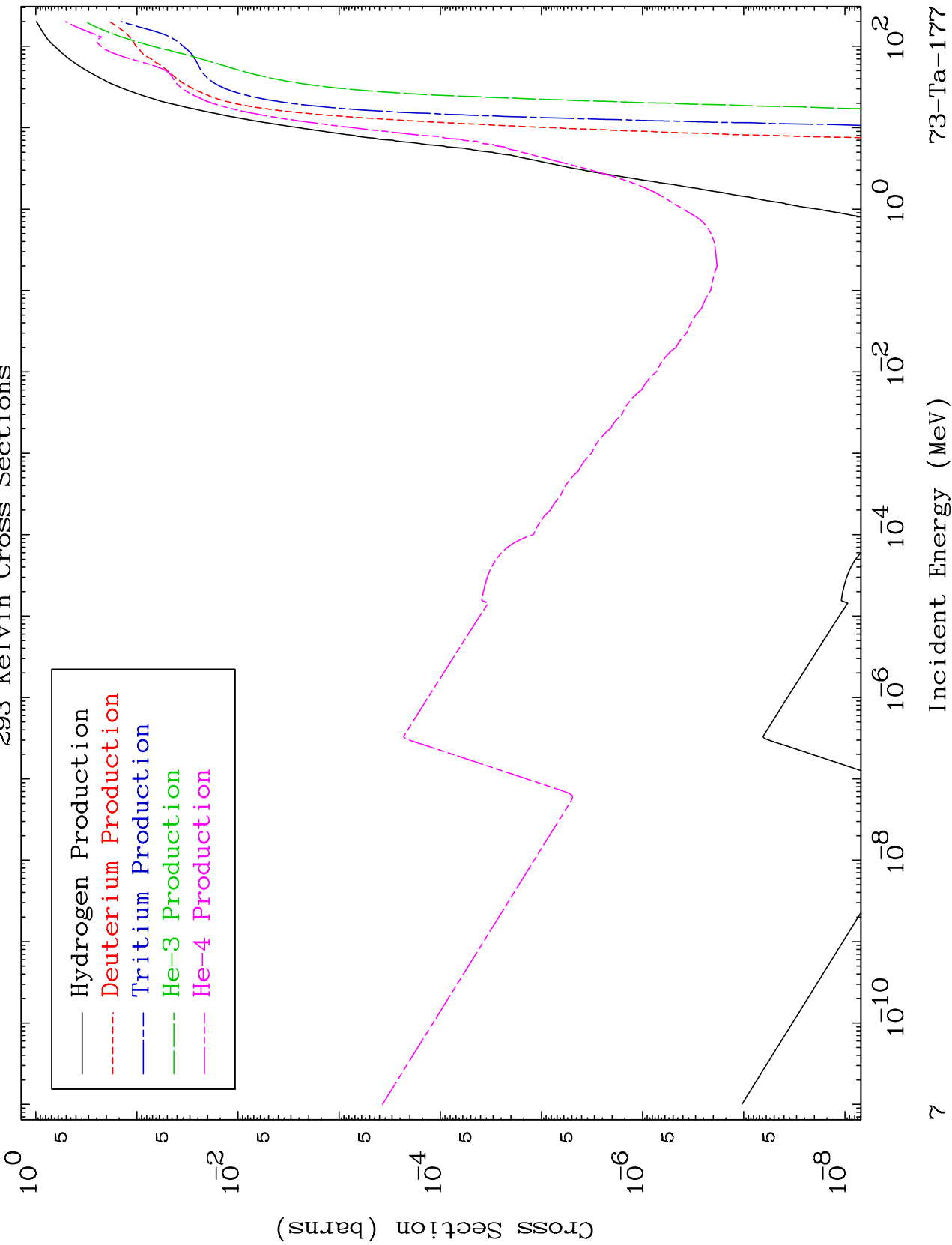
73-Ta-177



MAT 7316

Particle Production
293 Kelvin Cross Sections

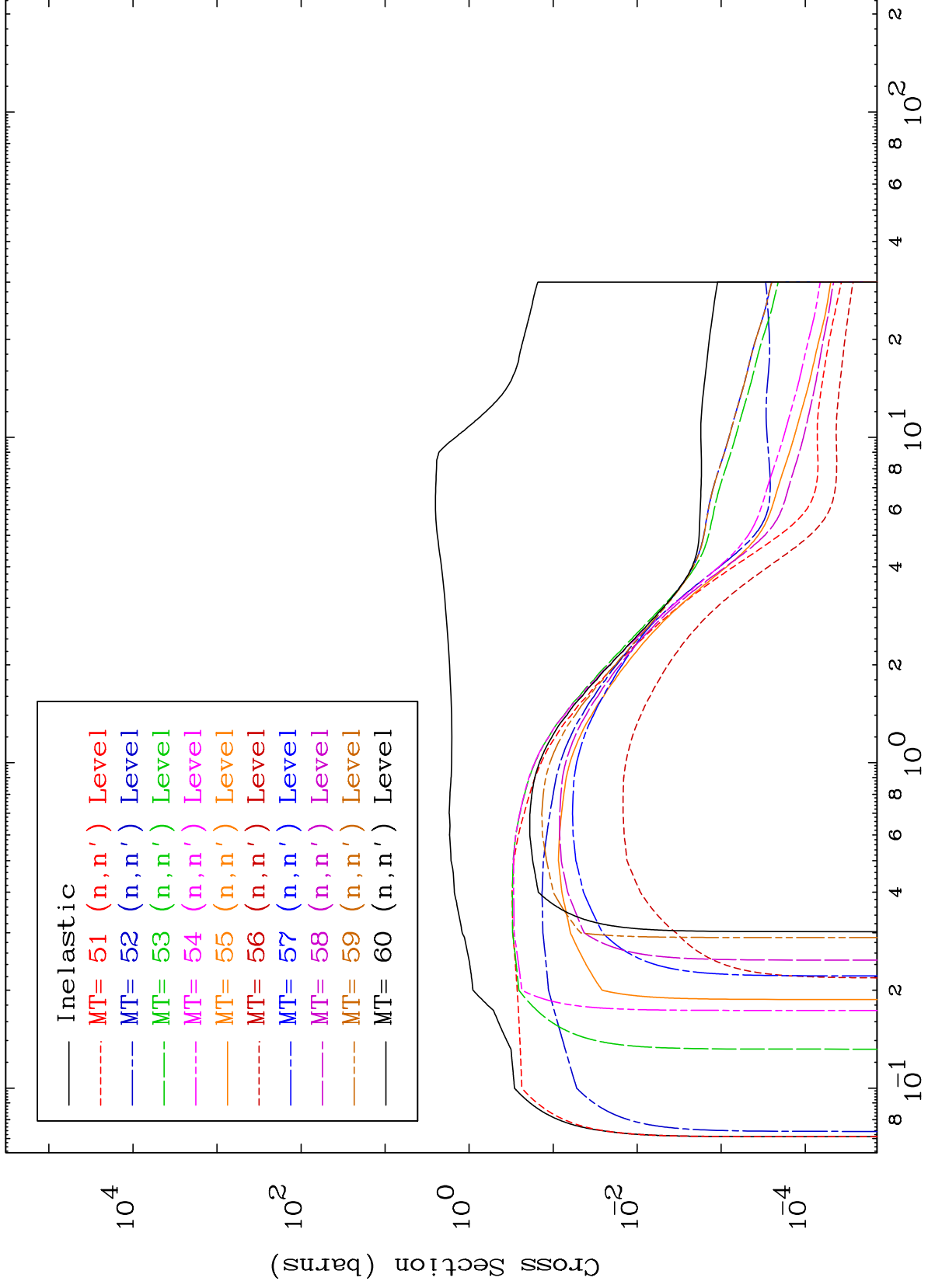
73-Ta-177



MAT 7316

(n,n') Levels
293 Kelvin Cross Sections

73-Ta-177



8

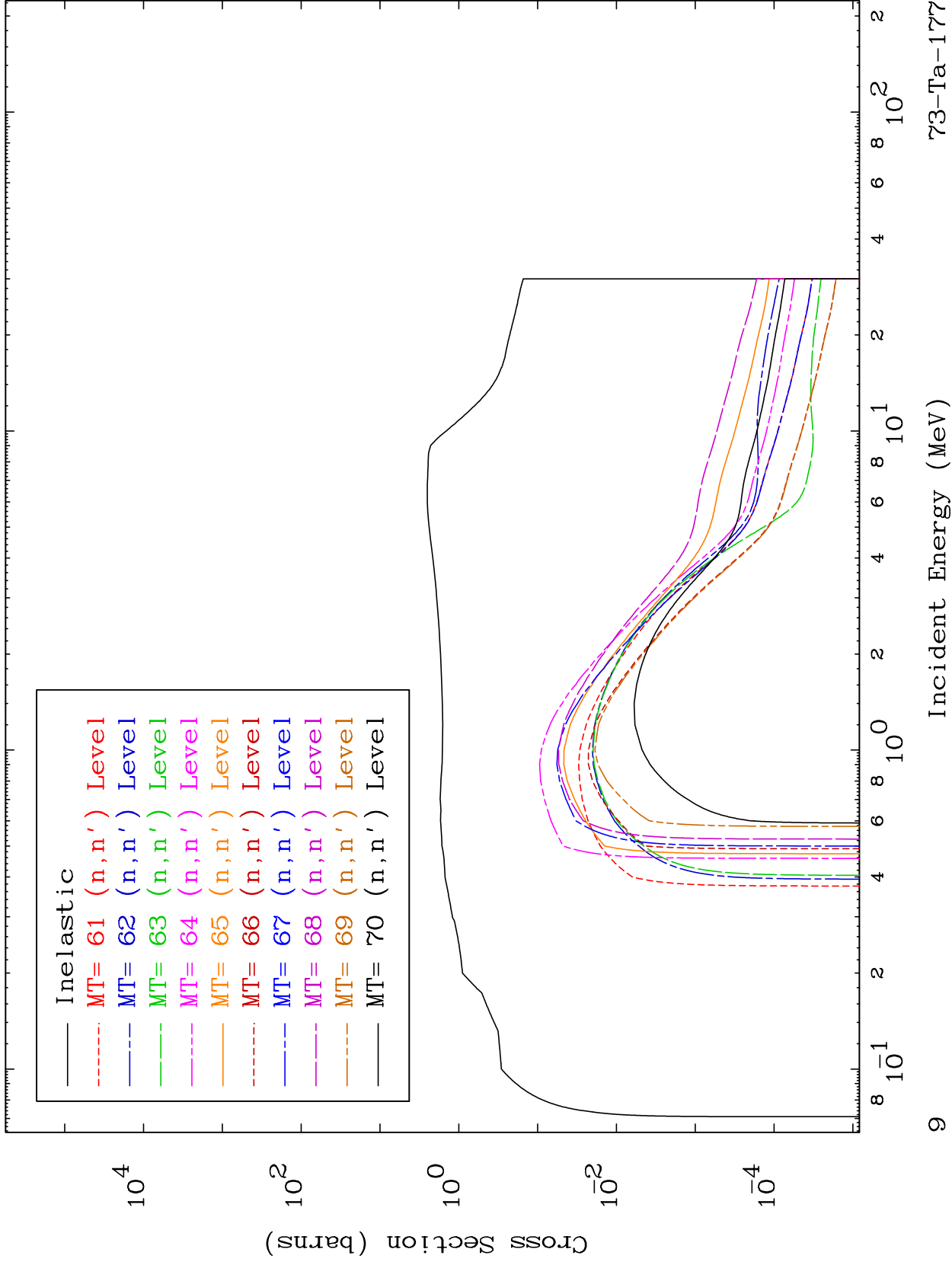
Incident Energy (MeV)

73-Ta-177

MAT 7316

(n,n') Levels
293 Kelvin Cross Sections

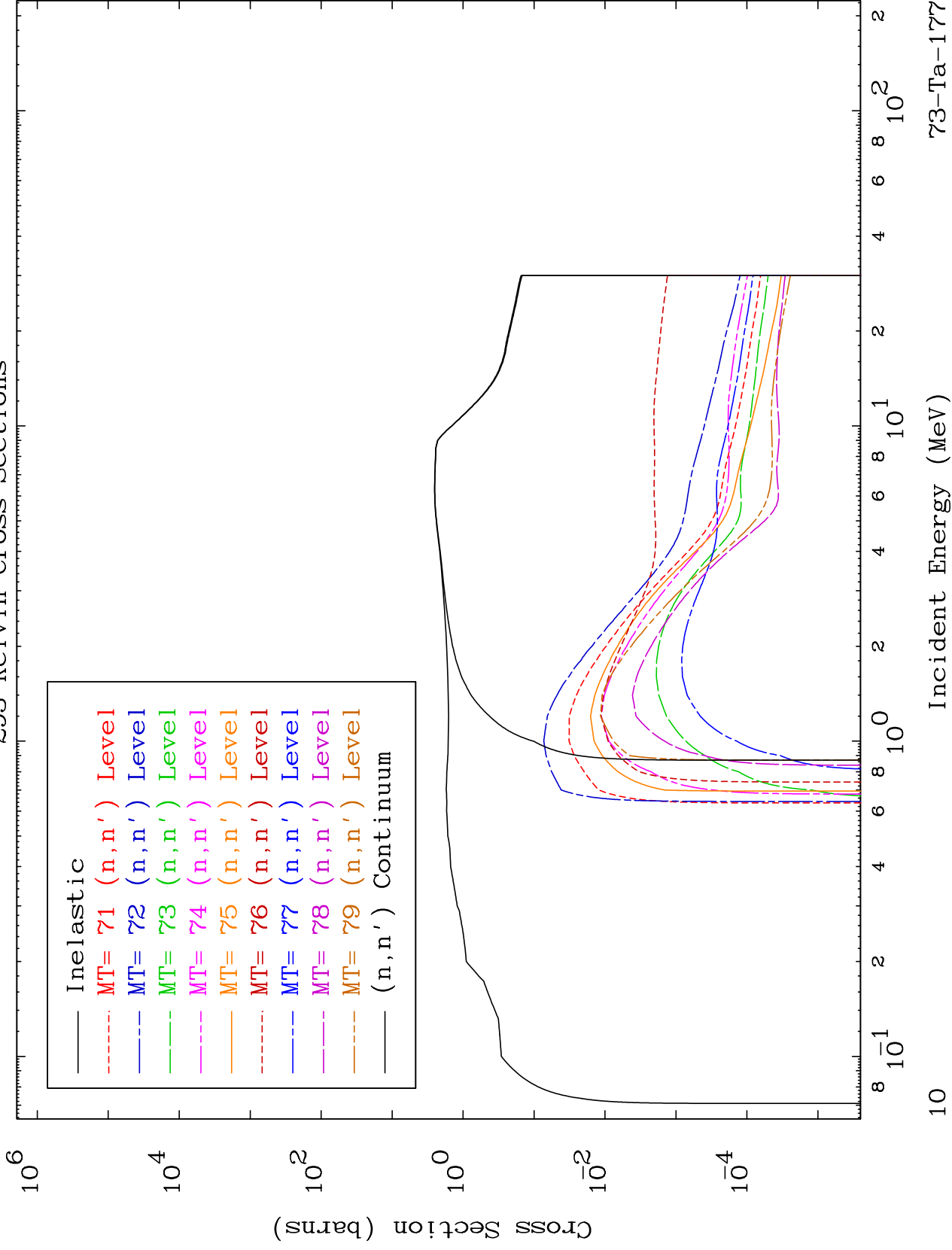
73-Ta-177



MAT 7316

(n,n') Levels
293 Kelvin Cross Sections

73-Ta-177



73-Ta-177

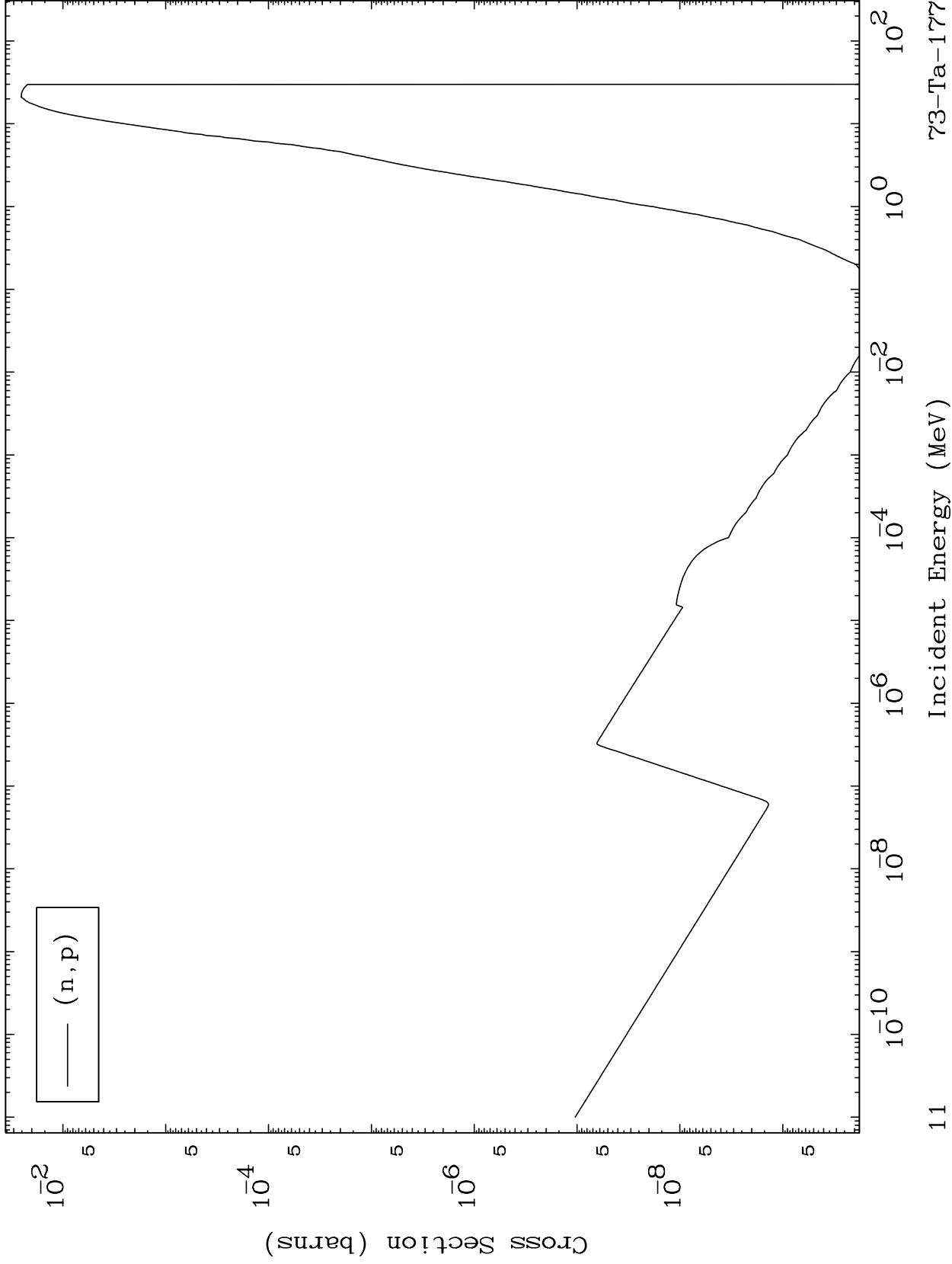
Incident Energy (MeV)

10

MAT 7316

(n,p) Levels
293 Kelvin Cross Sections

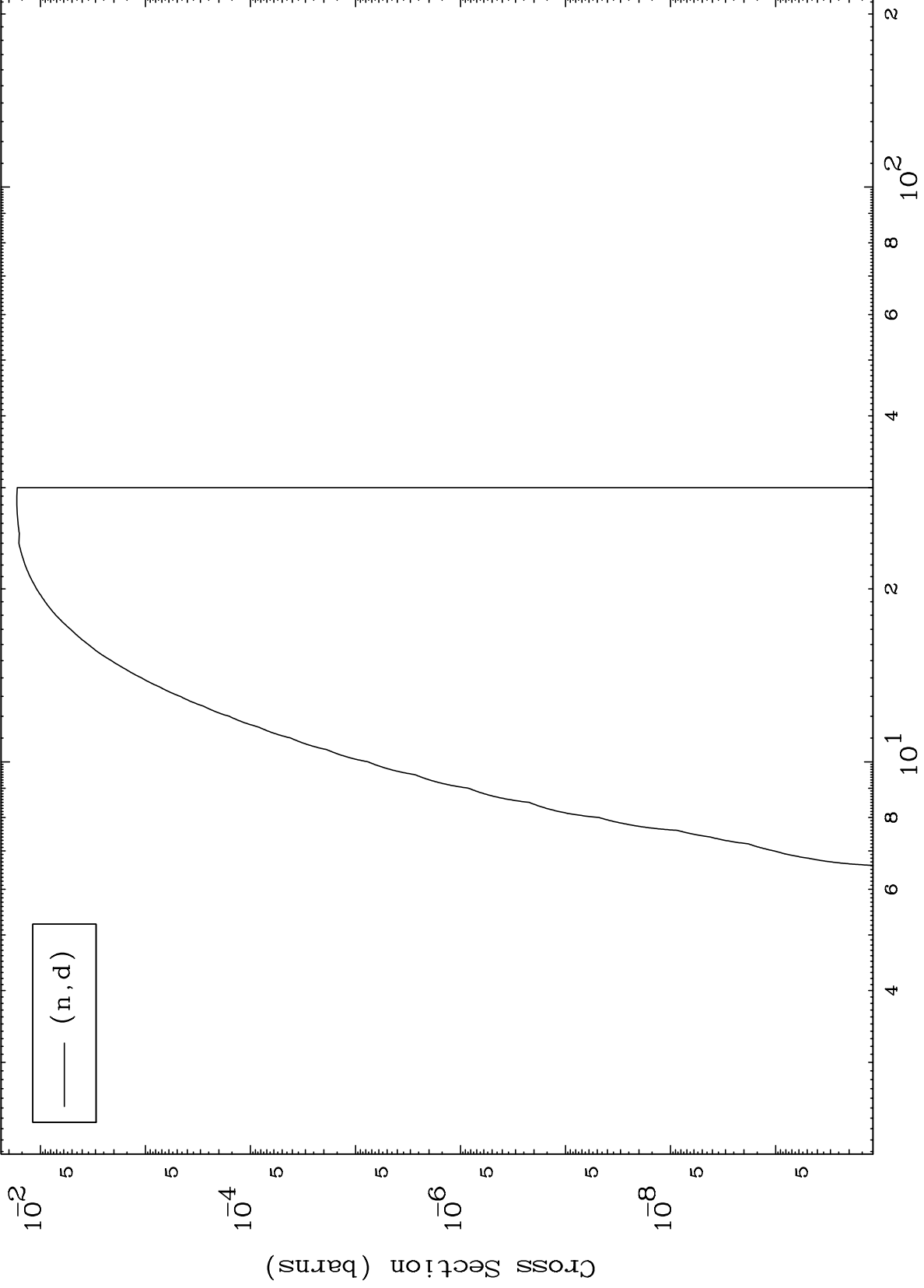
73-Ta-177



MAT 7316

(n,d) Levels
293 Kelvin Cross Sections

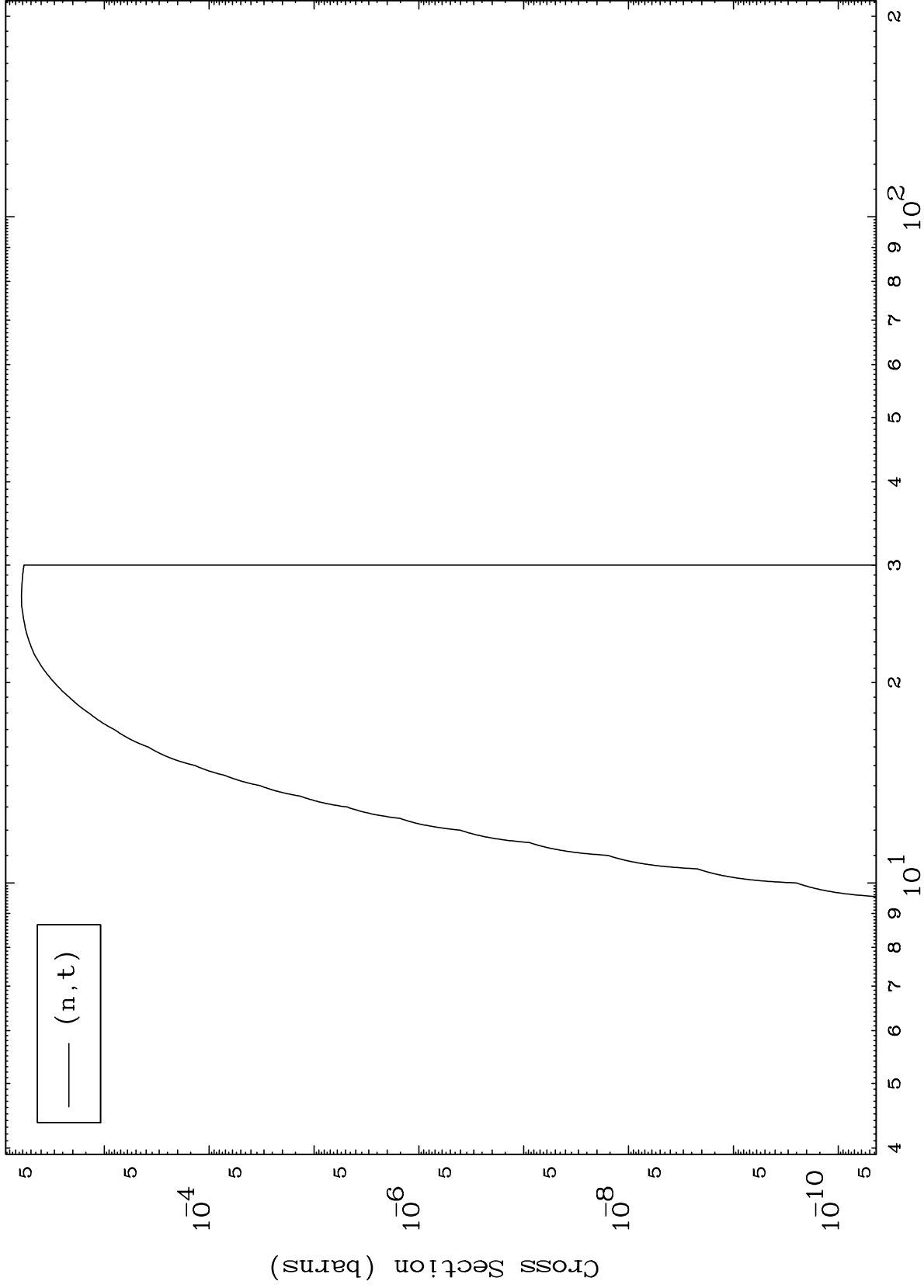
⁷³Ta-177



MAT 7316

(n,t) Levels
293 Kelvin Cross Sections

73-Ta-177



13

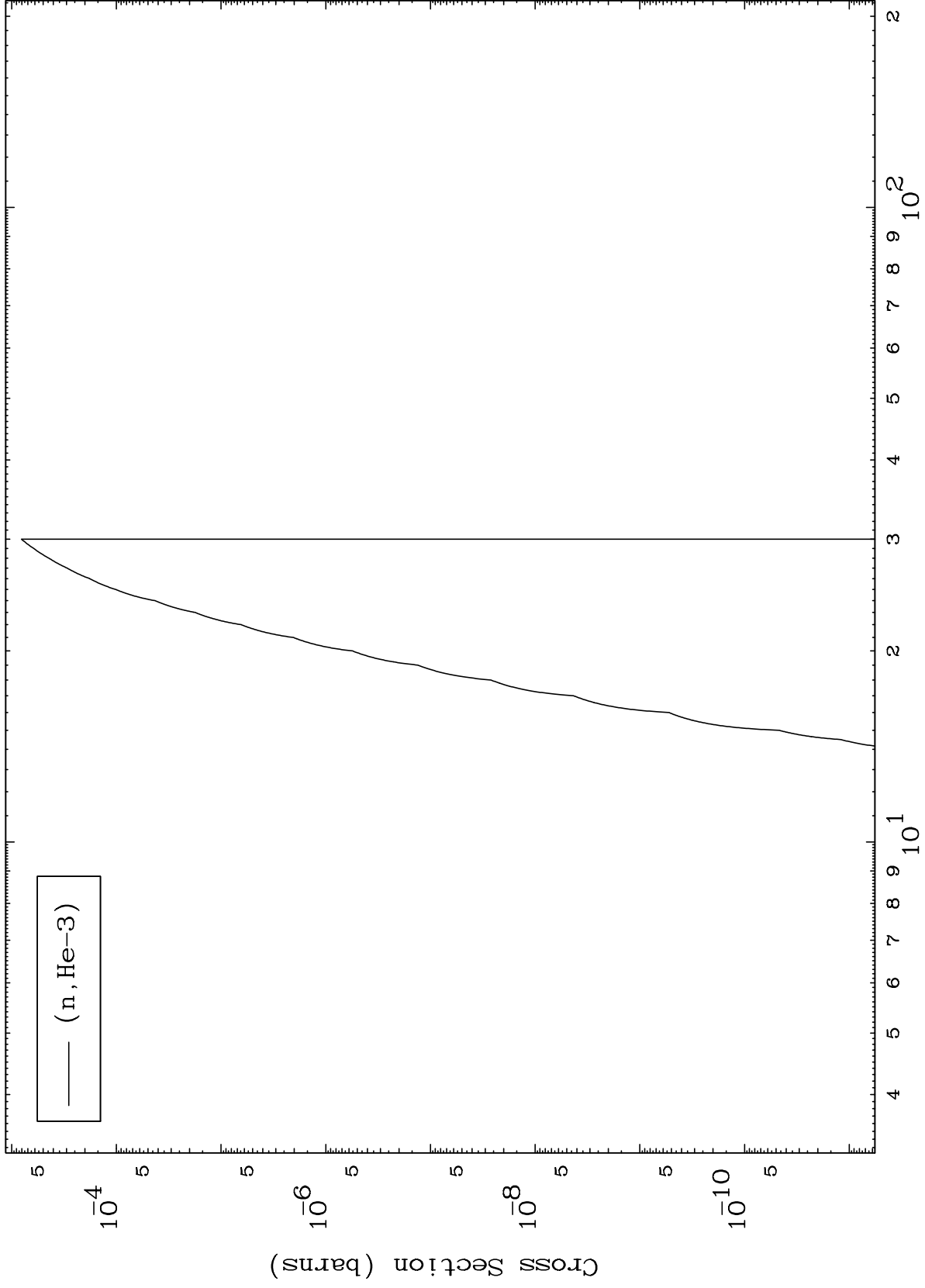
Incident Energy (MeV)

73-Ta-177

MAT 7316

(n,He3) Levels
293 Kelvin Cross Sections

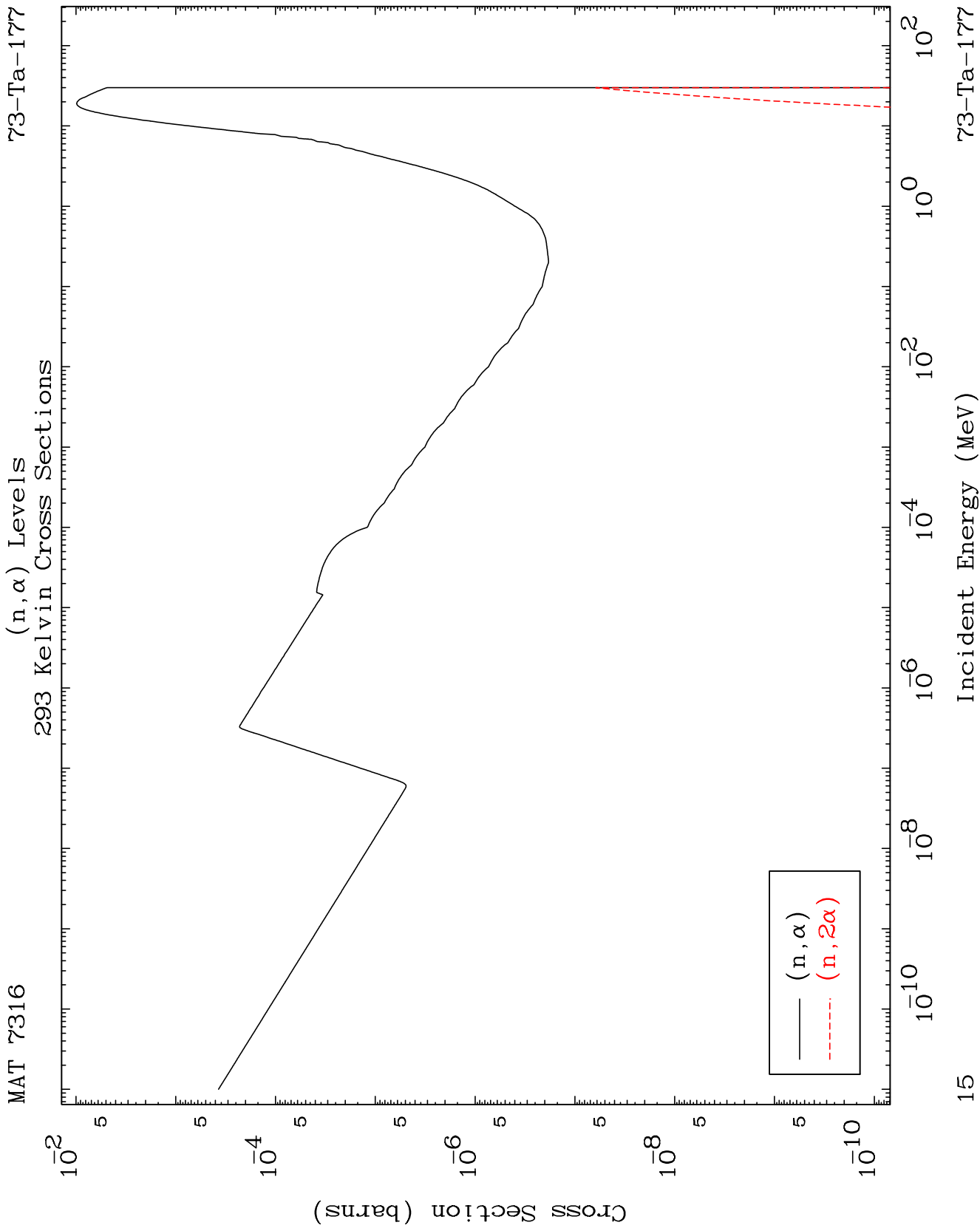
73-Ta-177

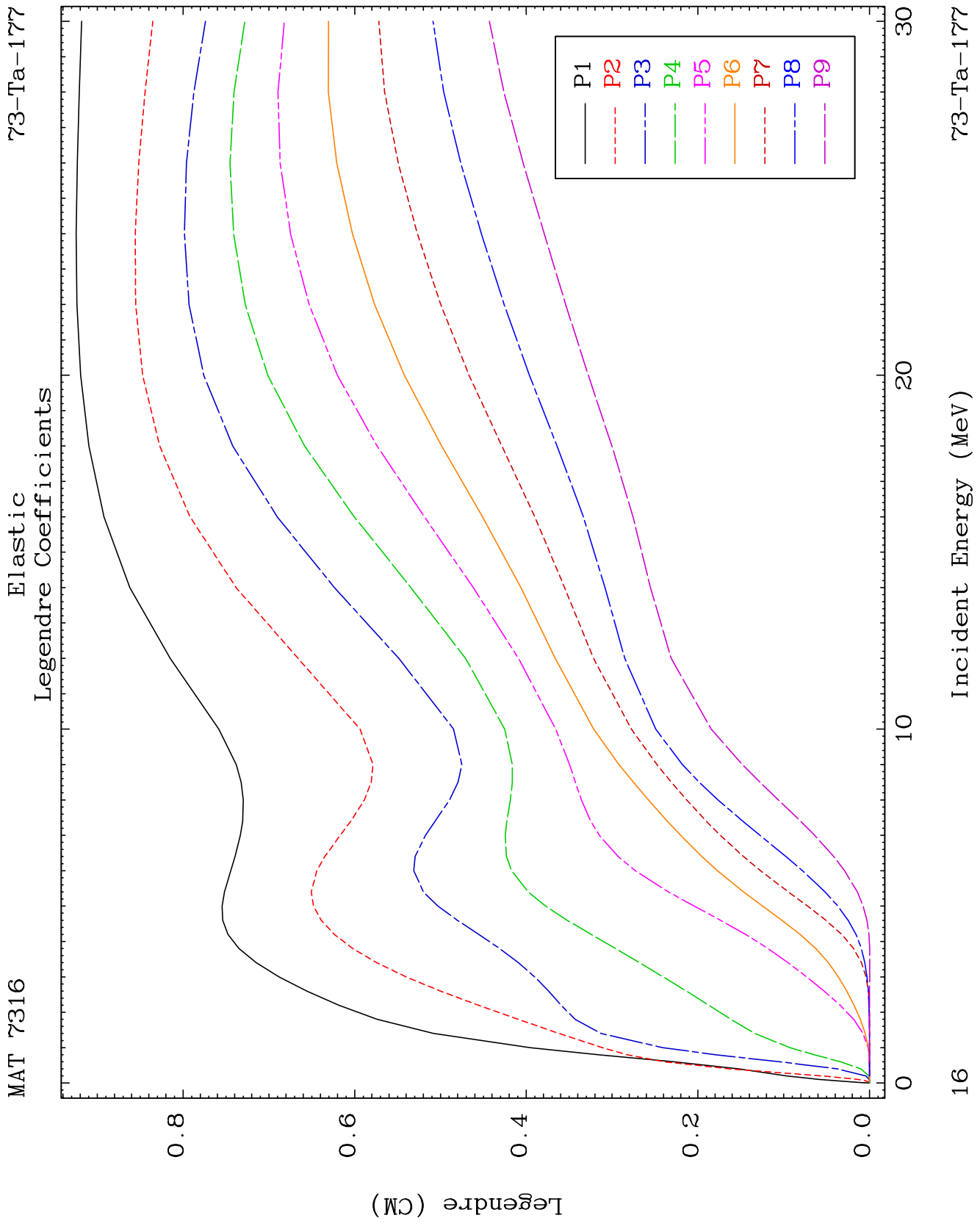


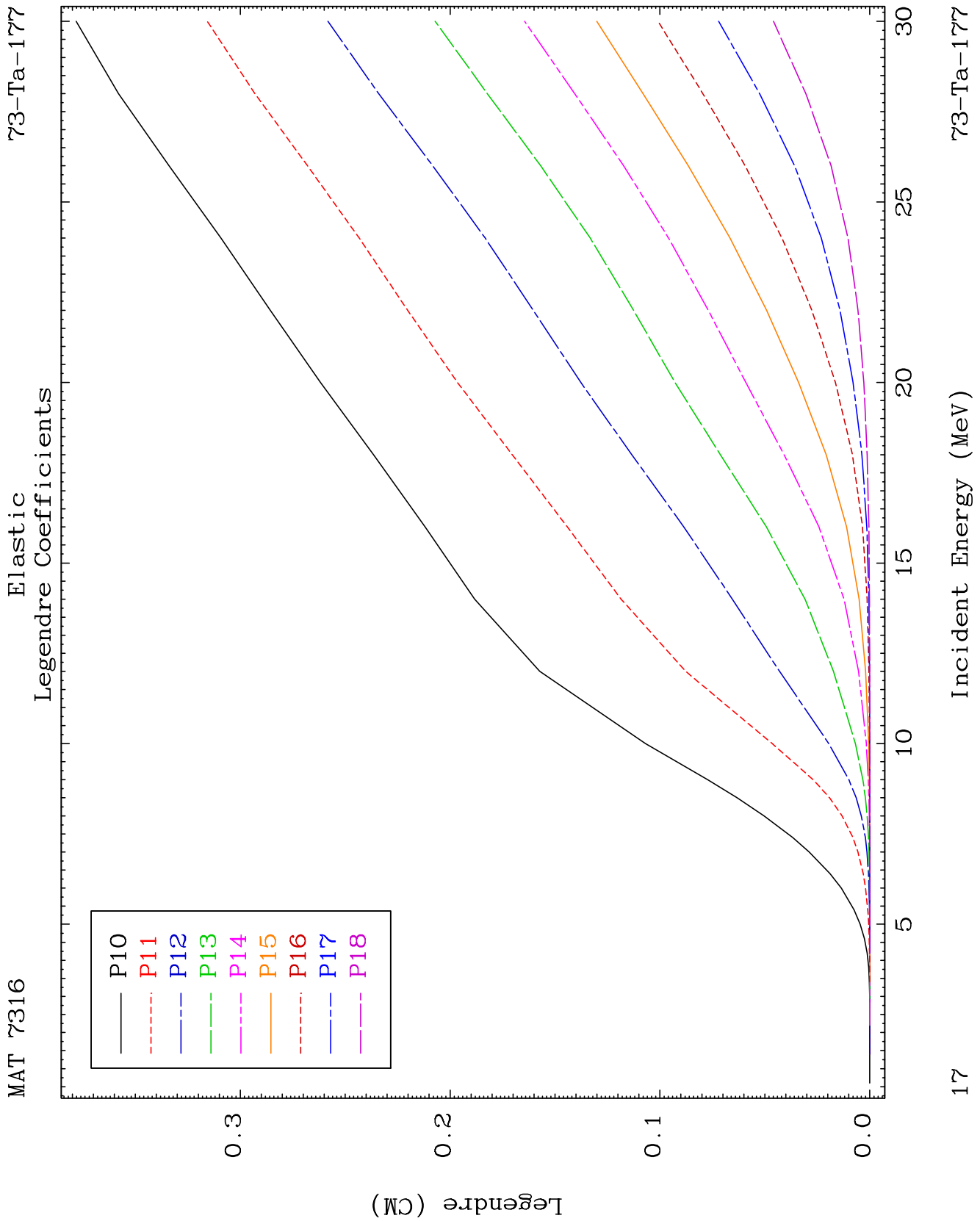
14

Incident Energy (MeV)

73-Ta-177



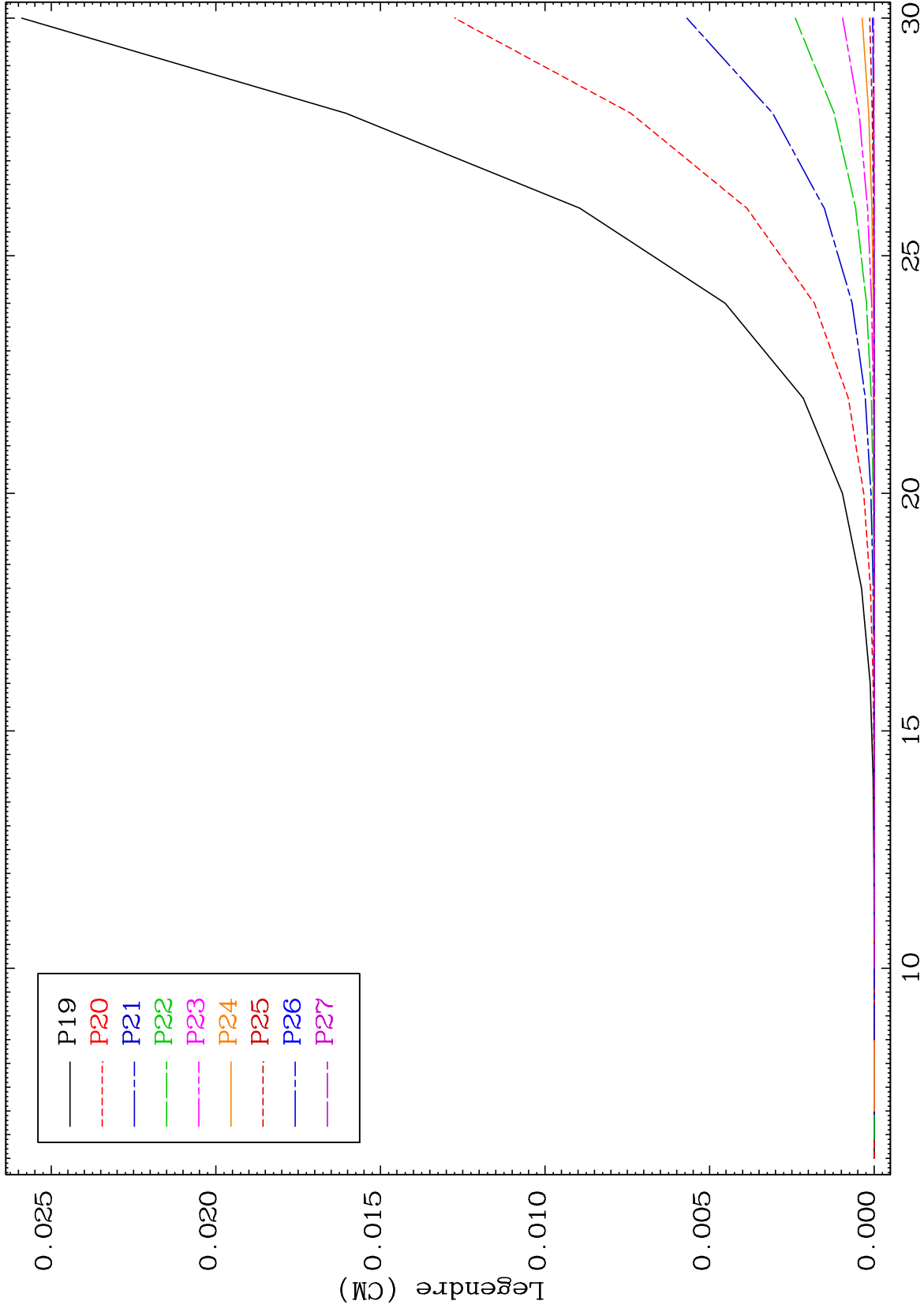




MAT 7316

Elastic Legendre Coefficients

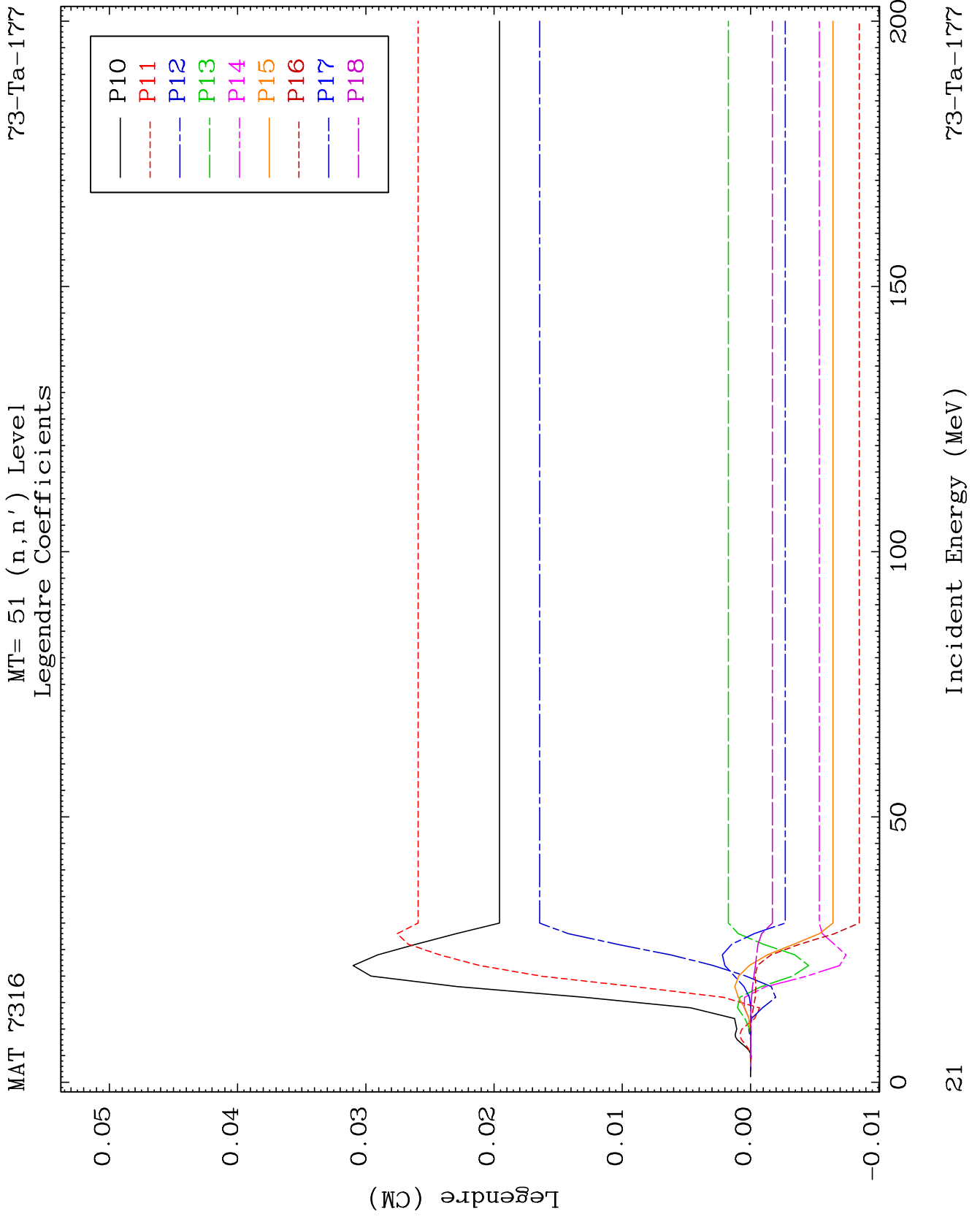
73-Ta-177



18

Incident Energy (MeV)

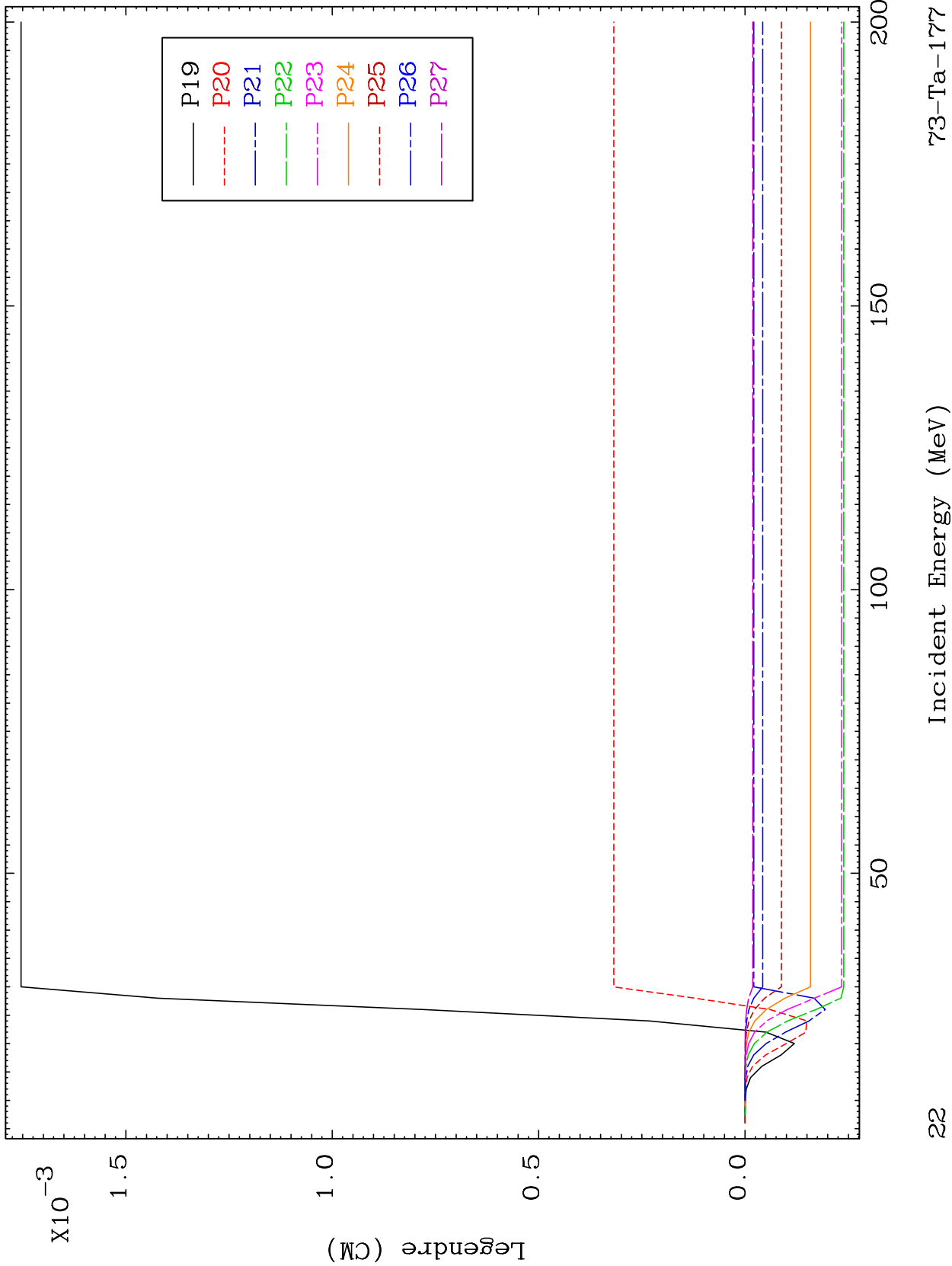
73-Ta-177



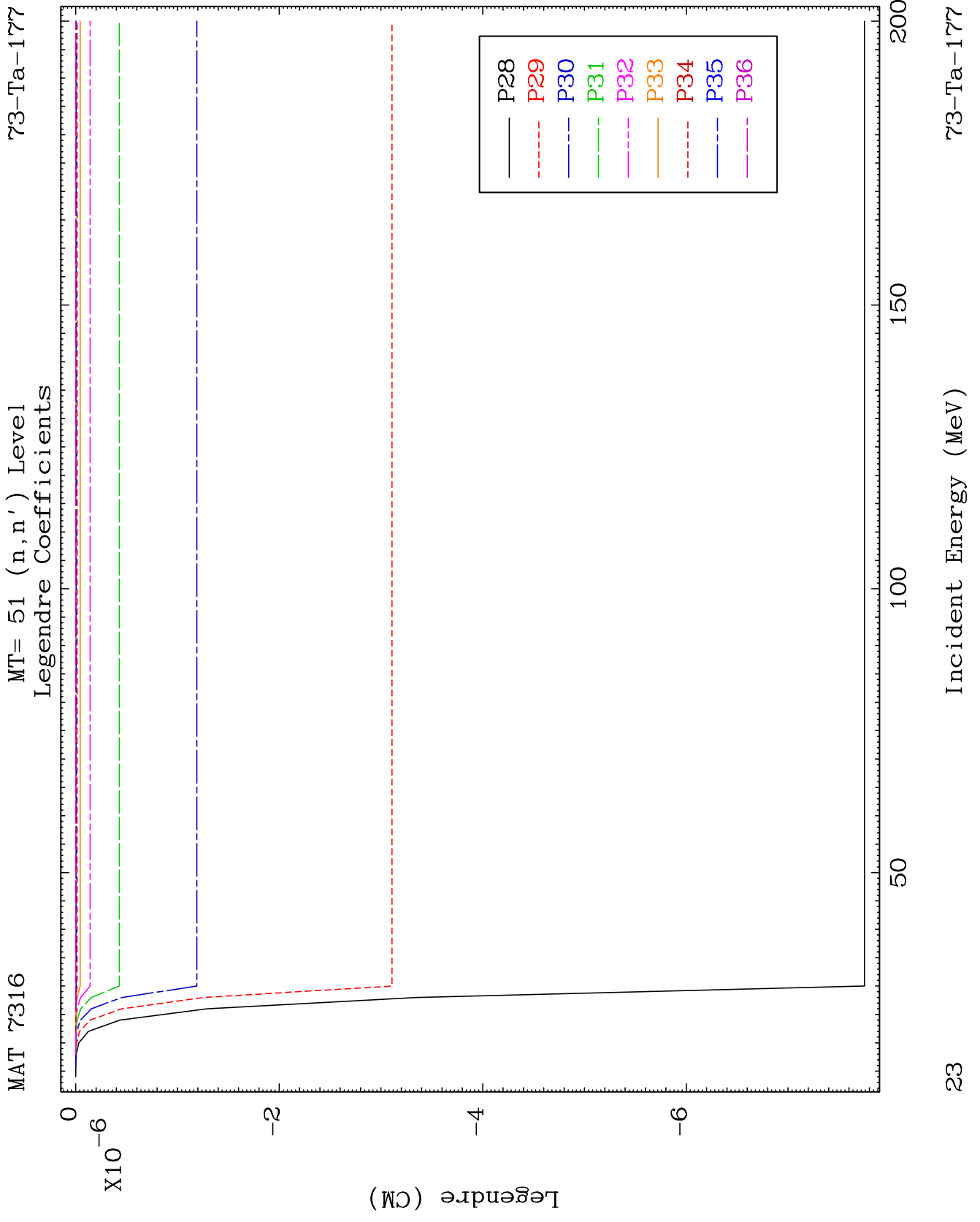
MAT 7316

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

73-Ta-177



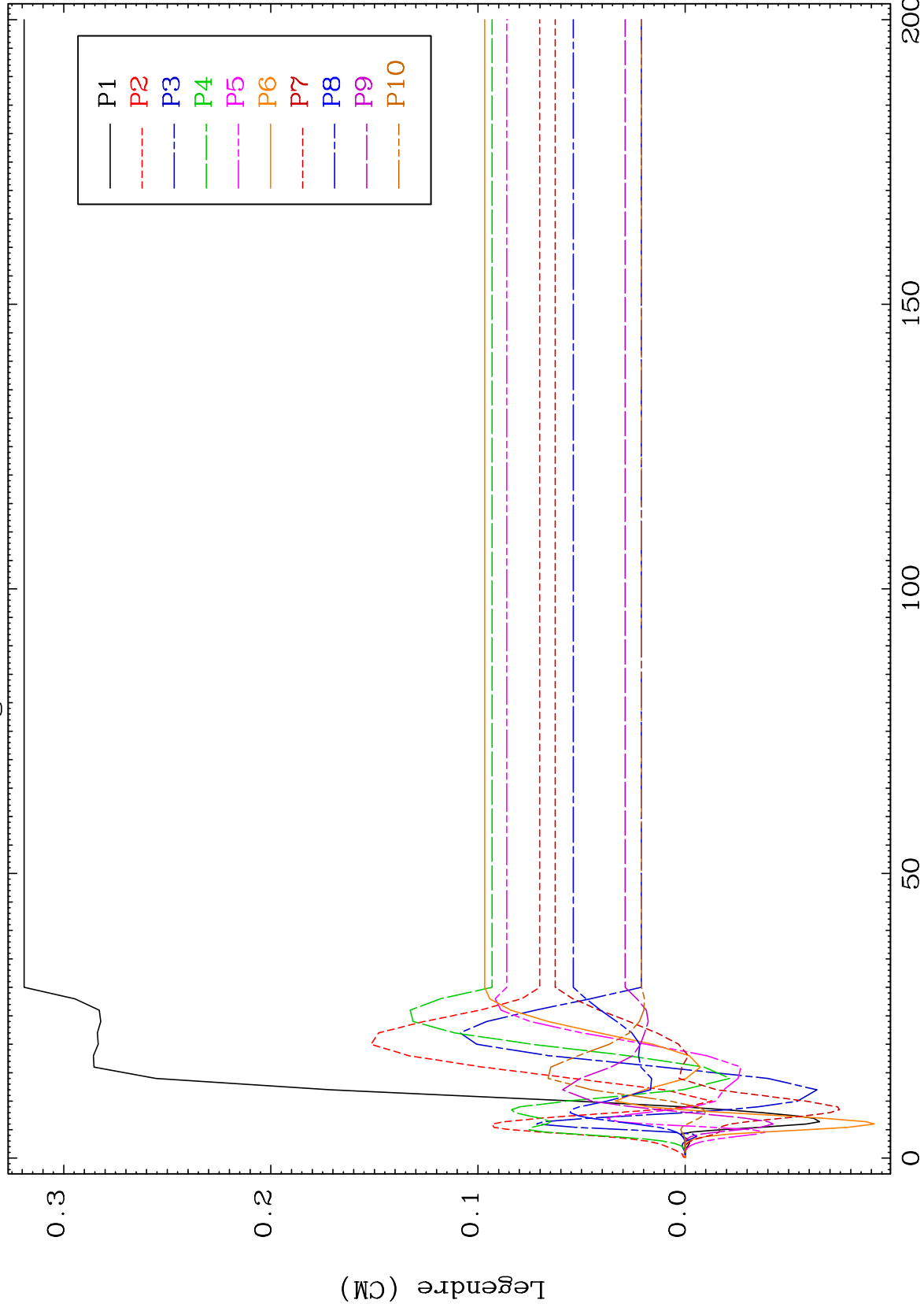
22



MAT 7316

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

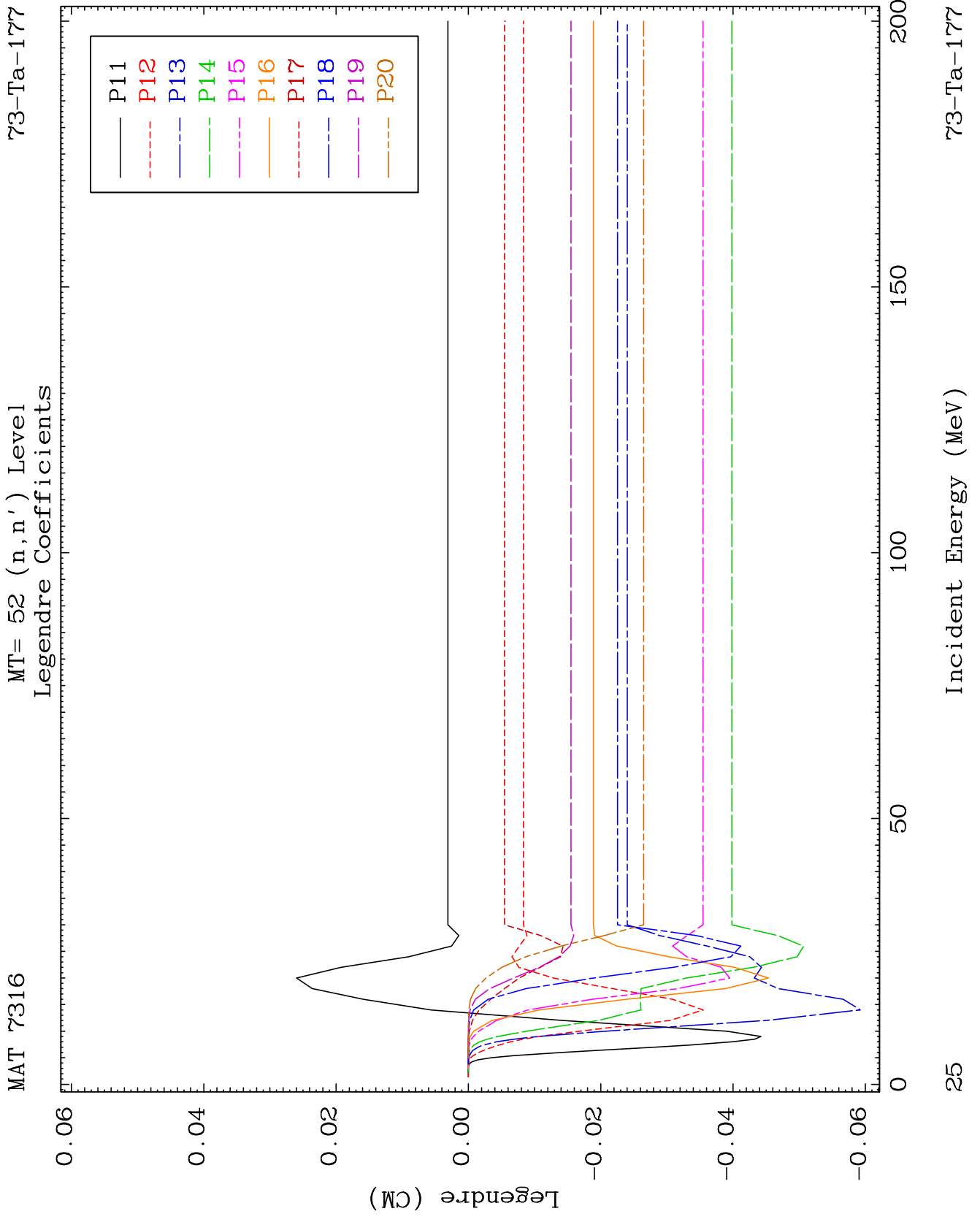
⁷³Ta-177

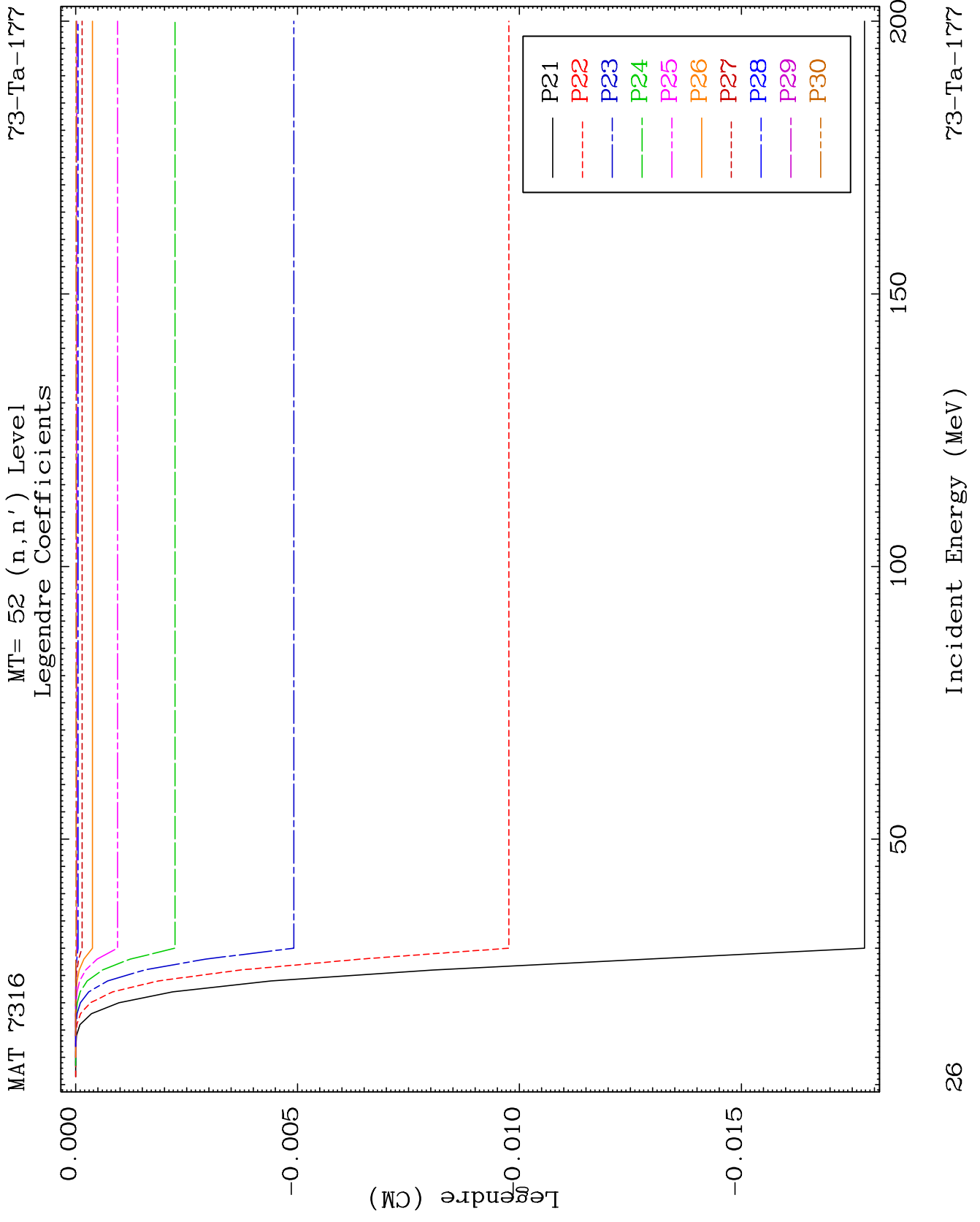


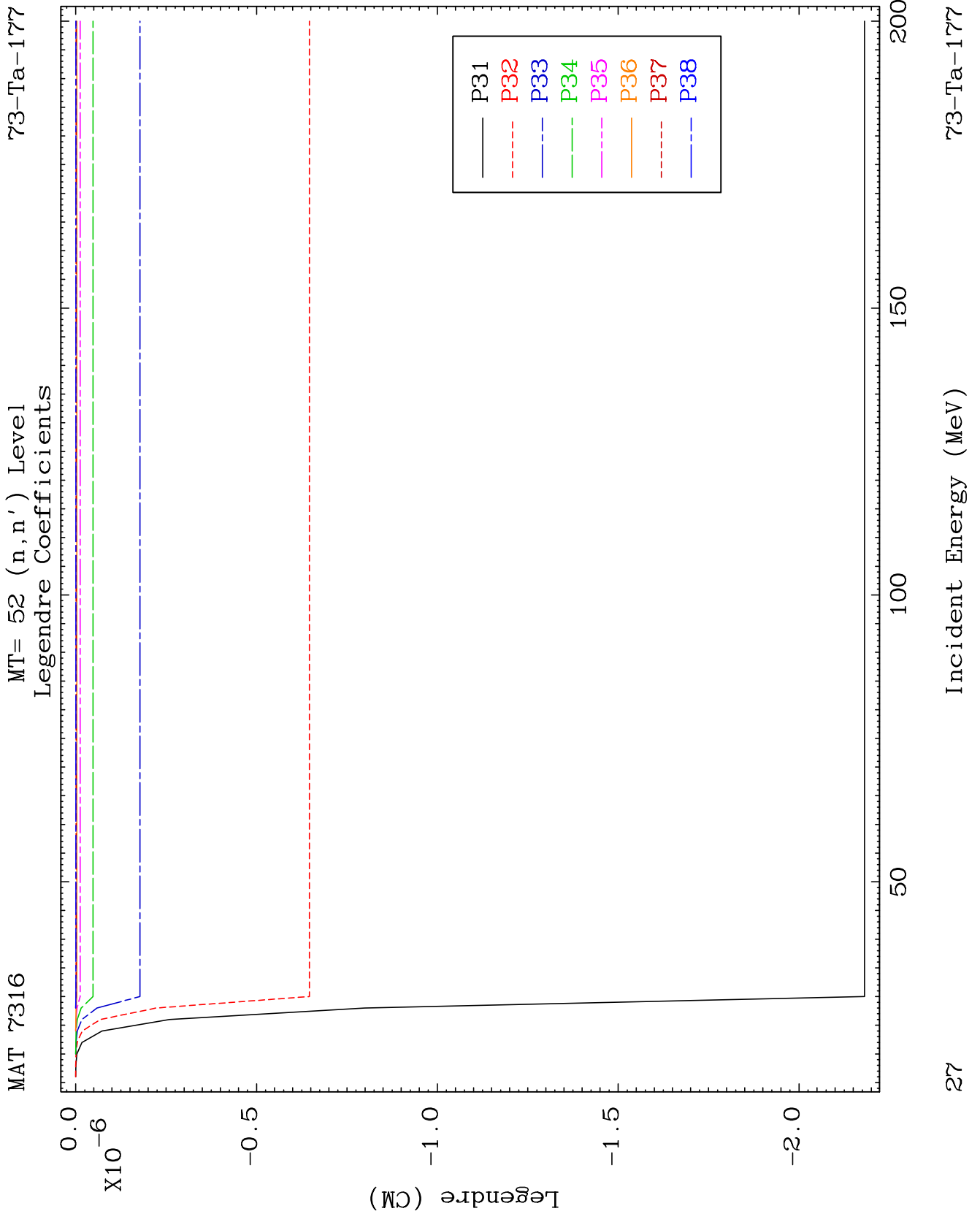
24

Incident Energy (MeV)

⁷³Ta-177



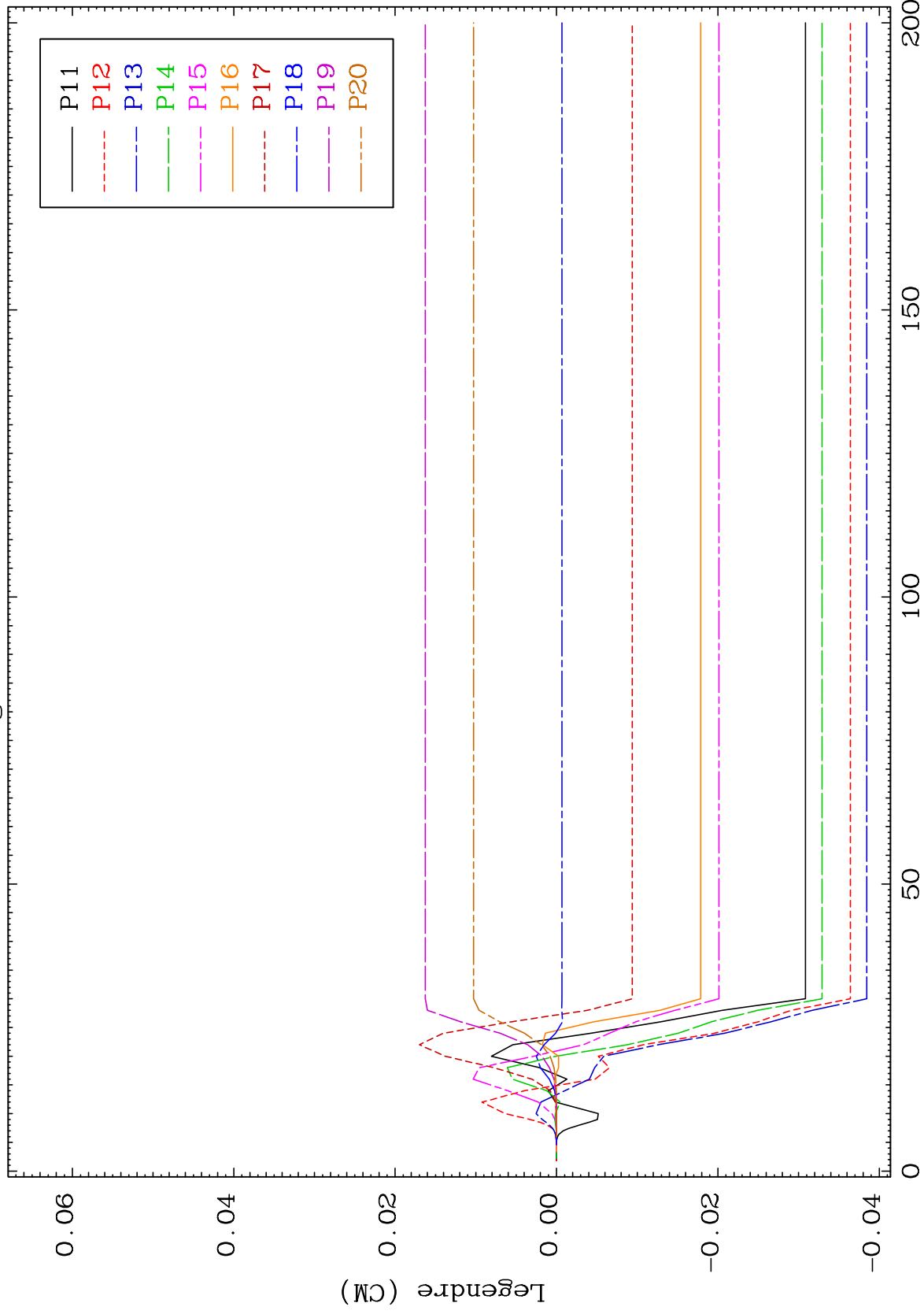




MAT 7316

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

73-Ta-177



29

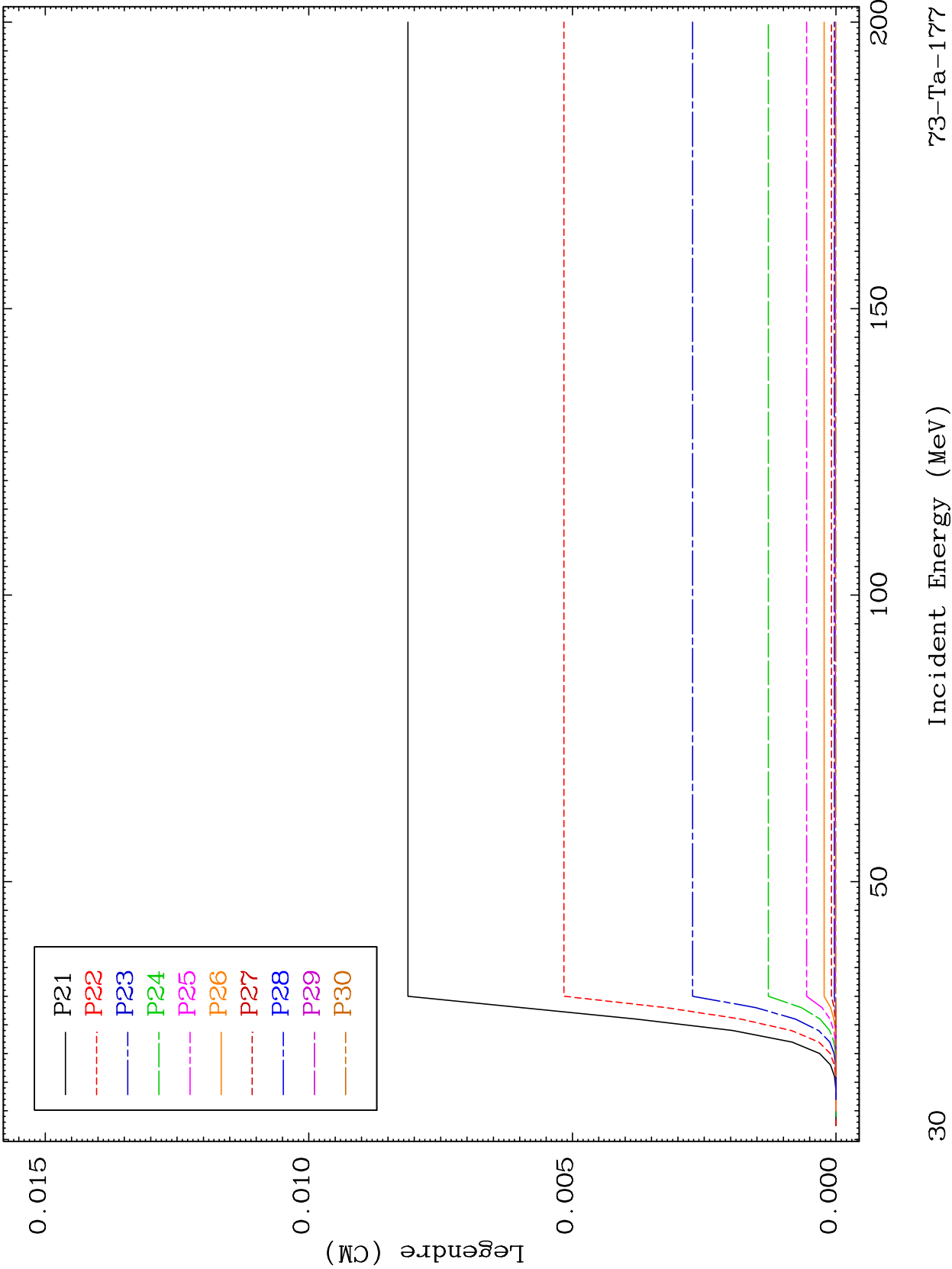
Incident Energy (MeV)

73-Ta-177

MAT 7316

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

73-Ta-177



30

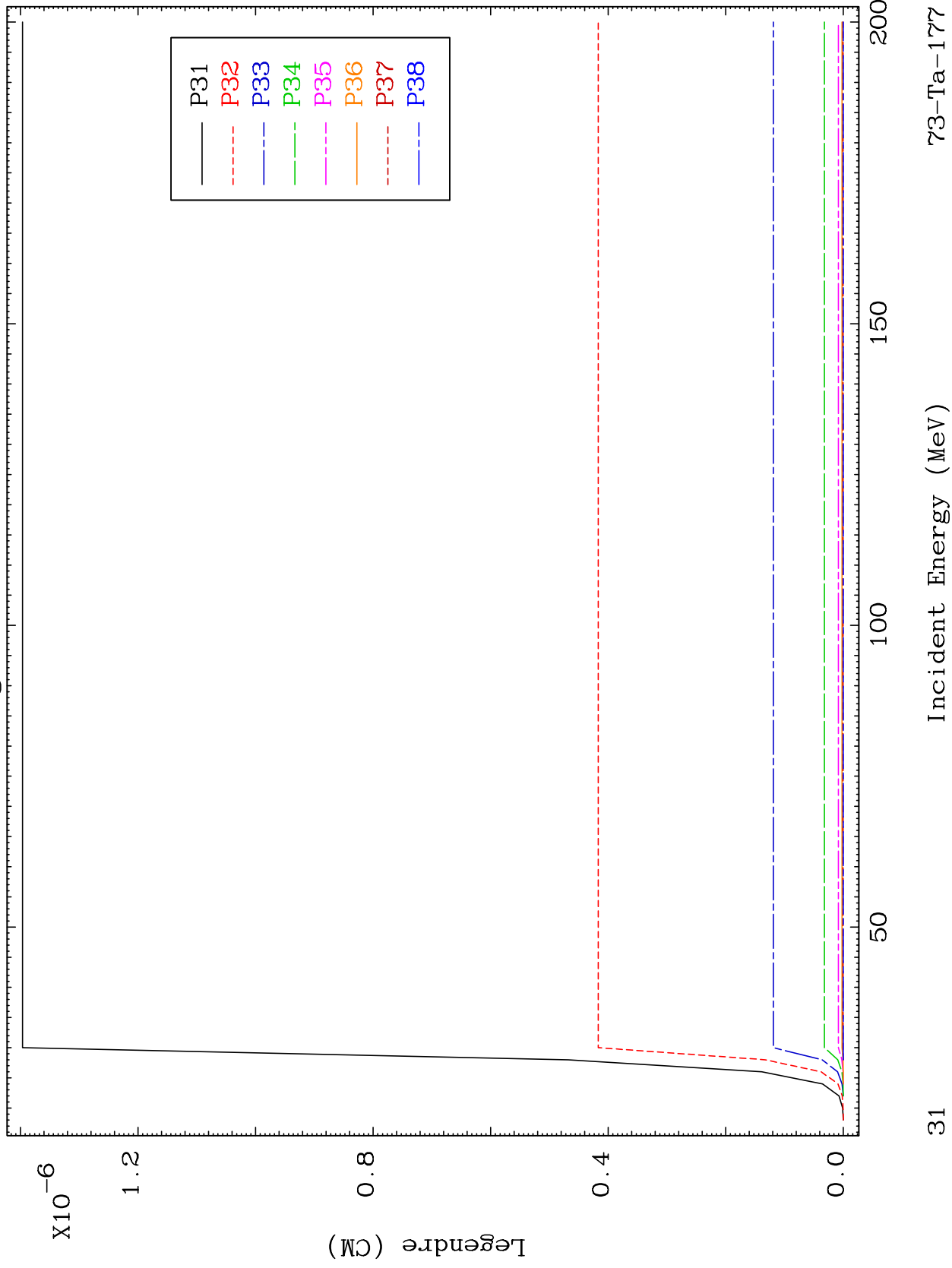
Incident Energy (MeV)

73-Ta-177

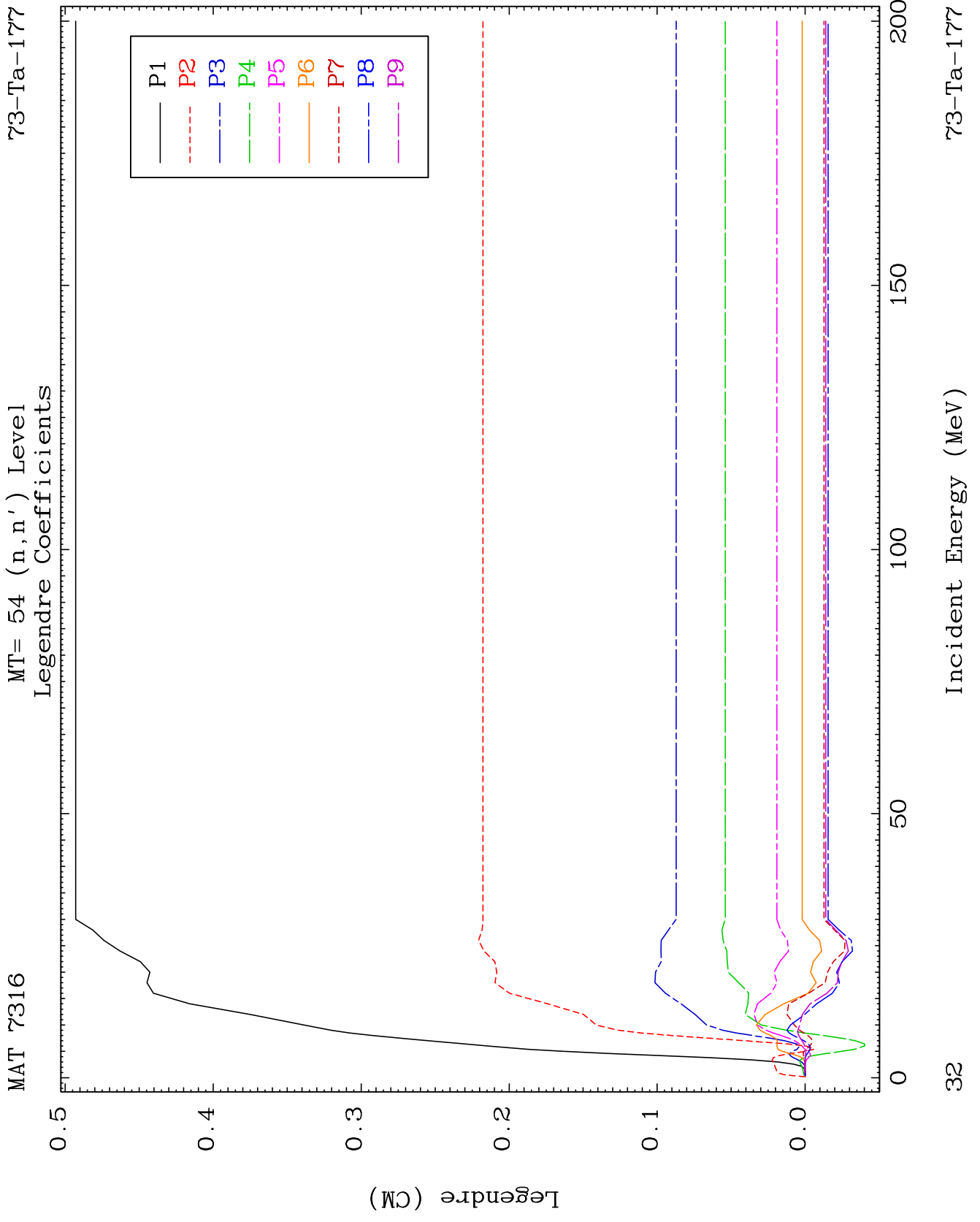
MAT 7316

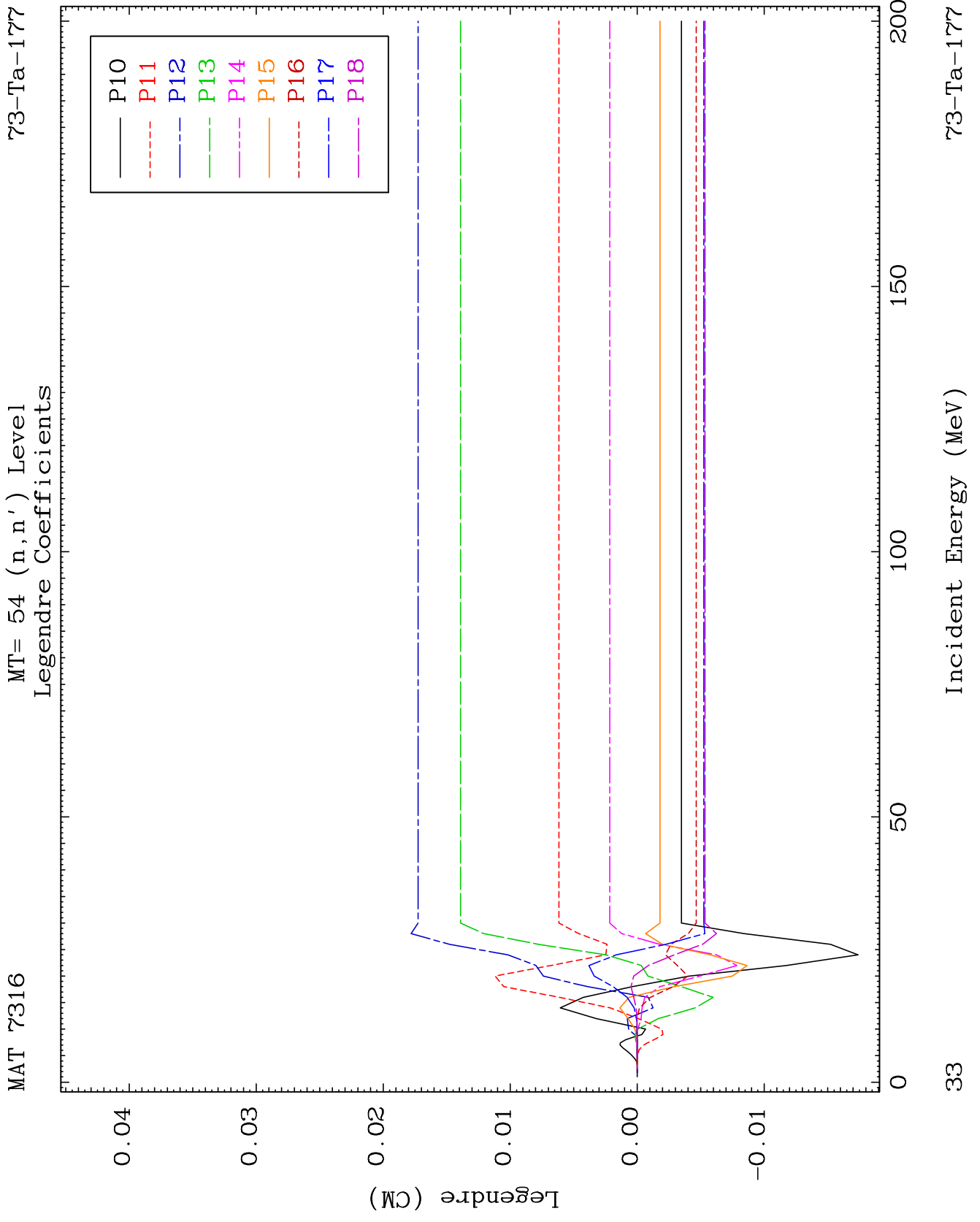
MT= 53 (n,n') Level
Legendre Coefficients

73-Ta-177



31

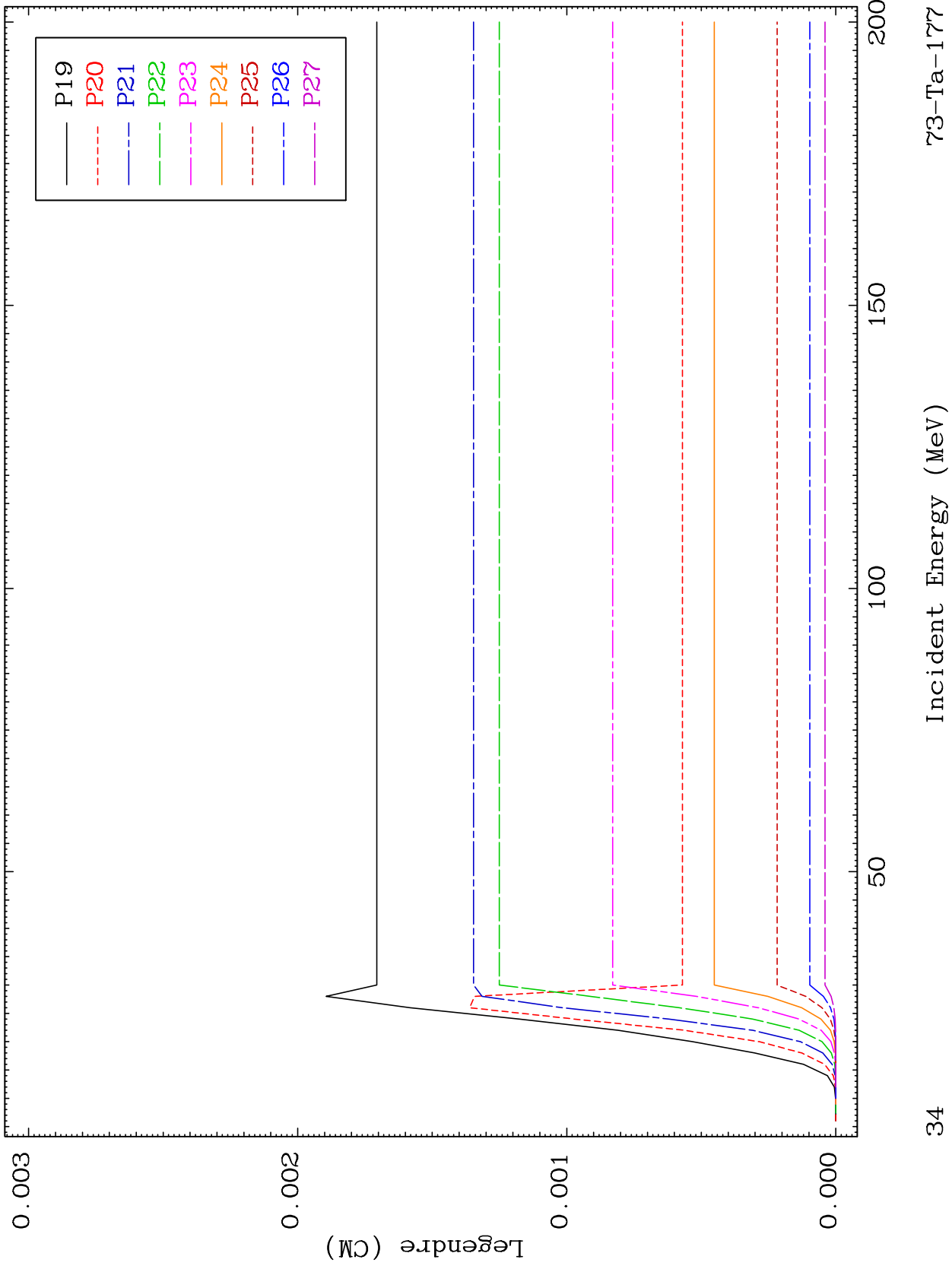




MAT 7316

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

73-Ta-177



34

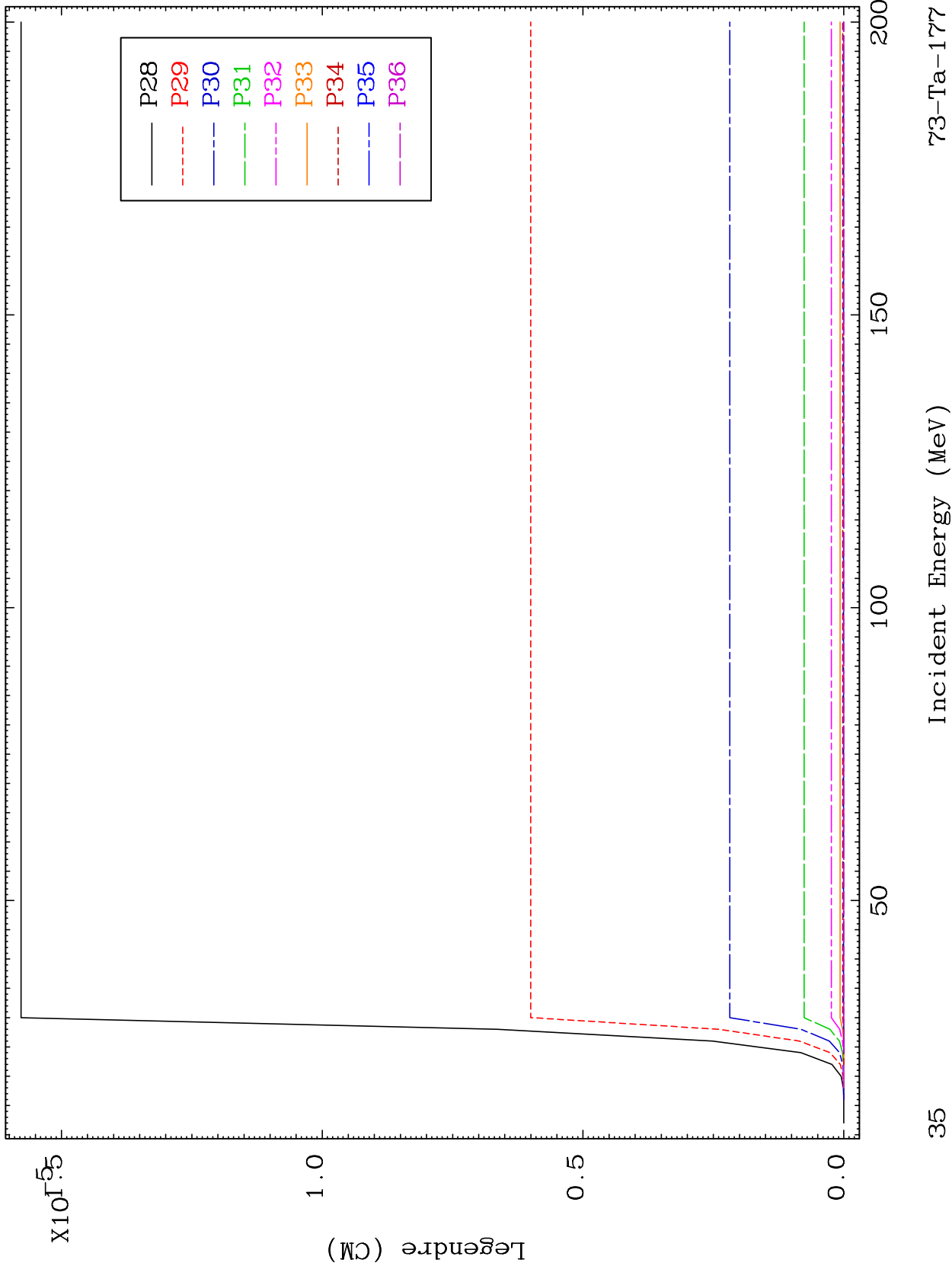
Incident Energy (MeV)

73-Ta-177

MAT 7316

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

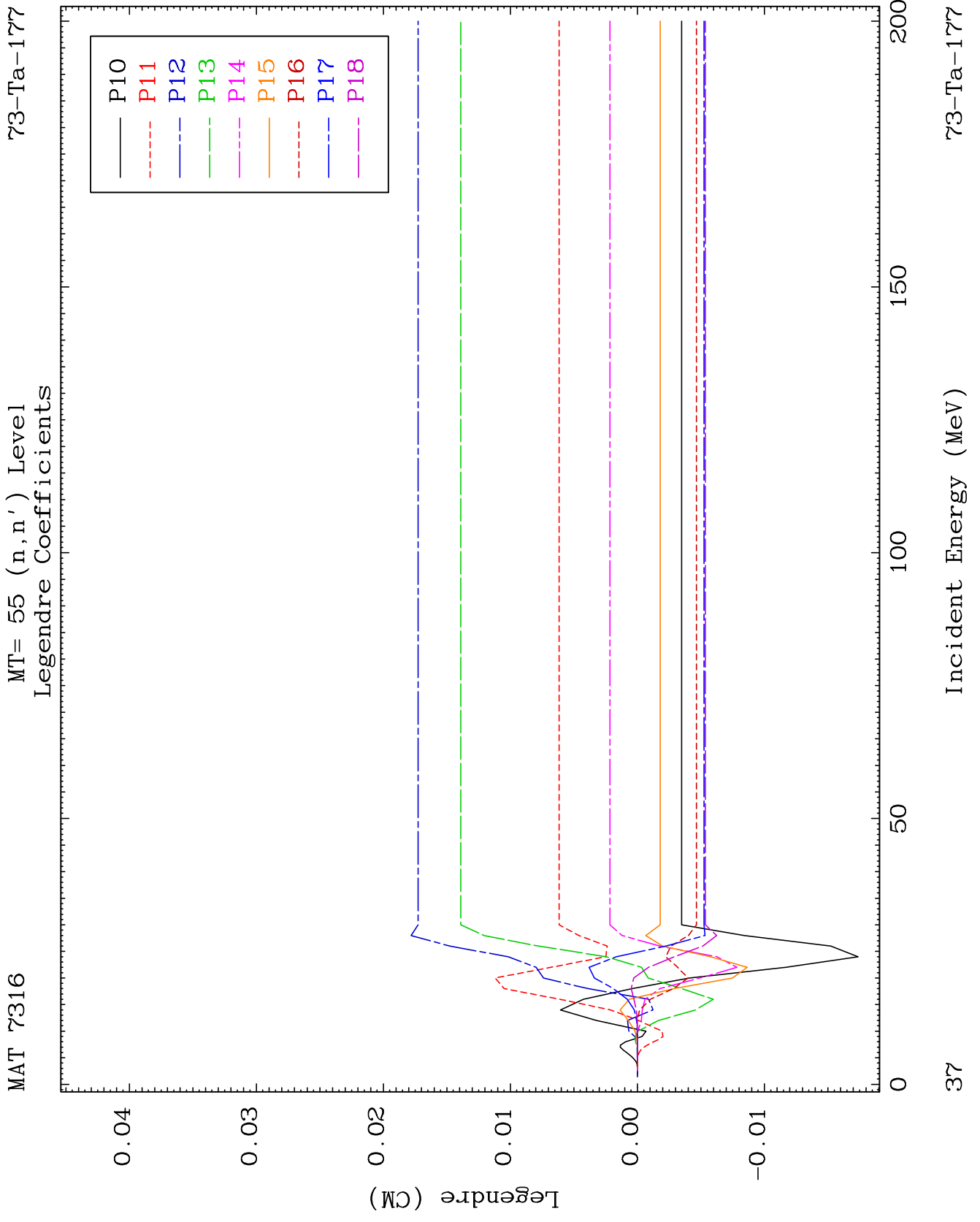
73-Ta-177

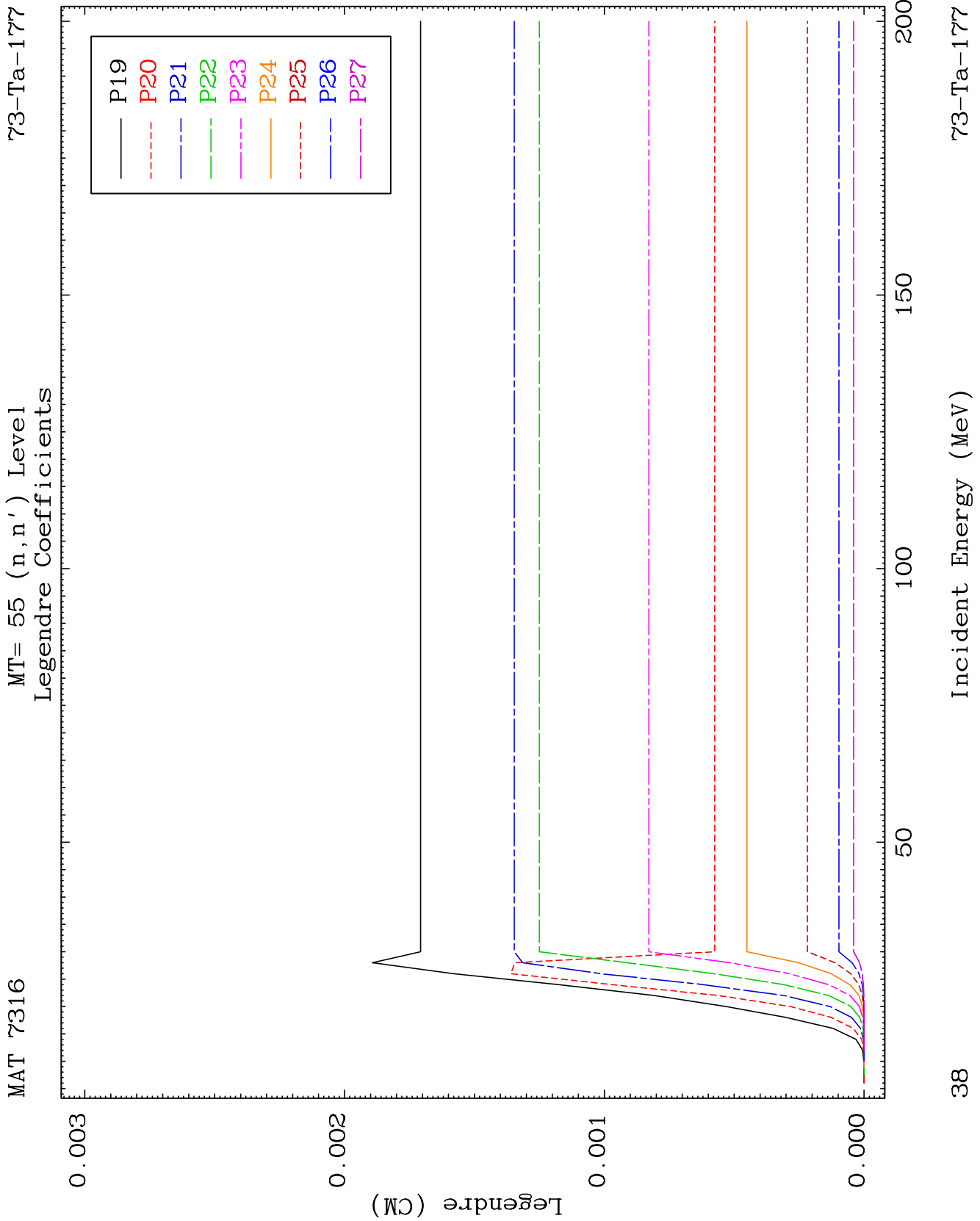


35

Incident Energy (MeV)

73-Ta-177

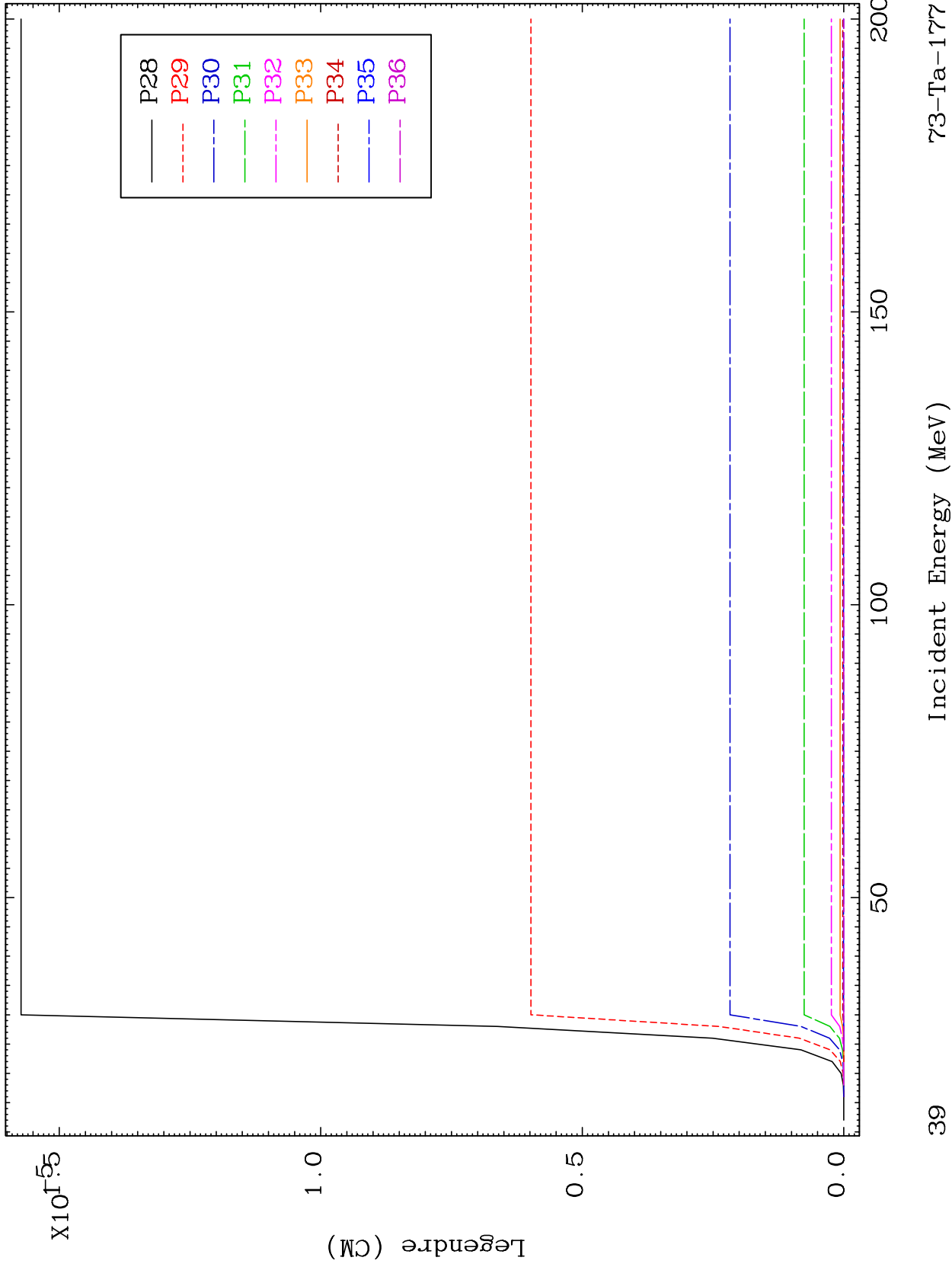




MAT 7316

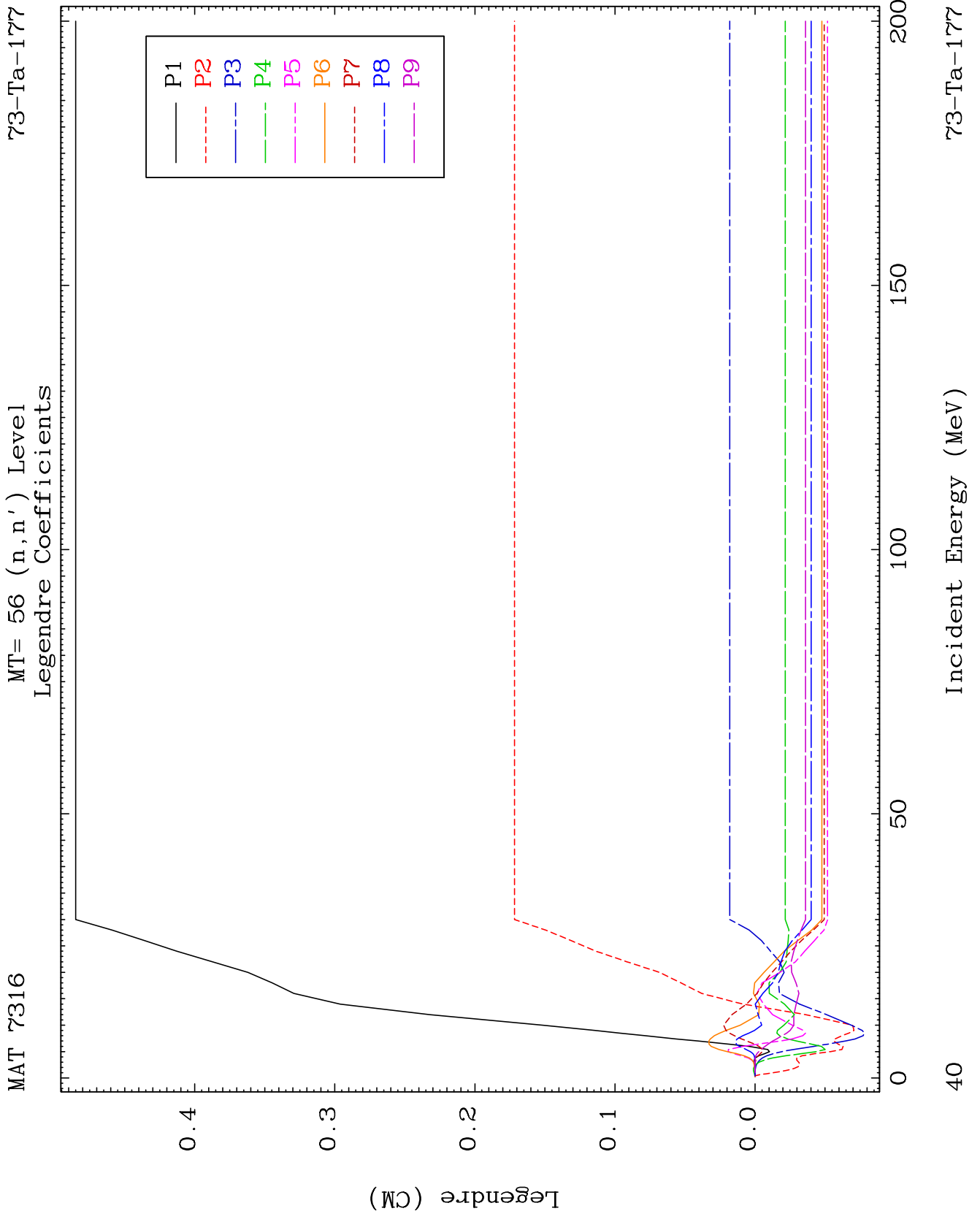
MT= 55 (n,n') Level
Legendre Coefficients

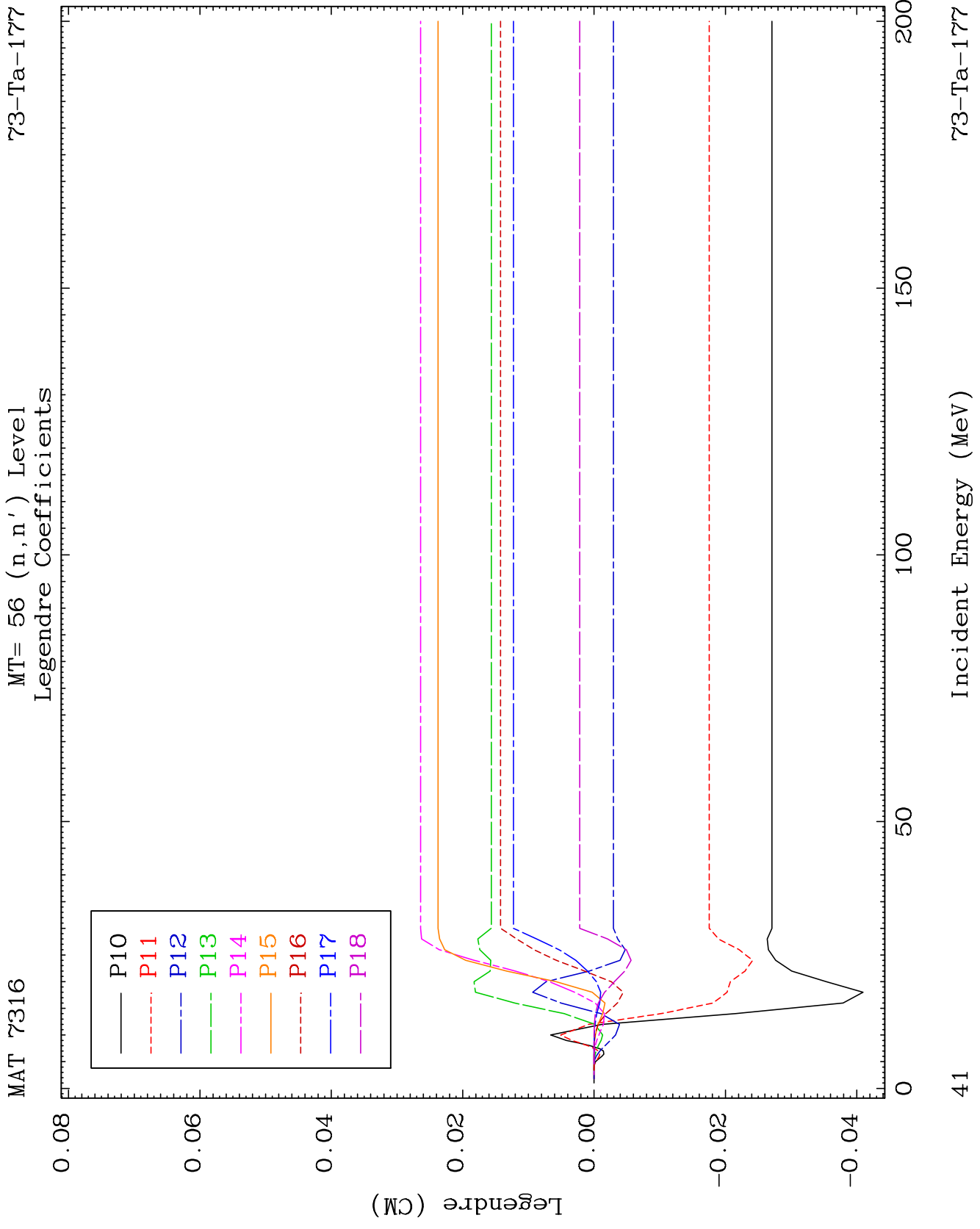
73-Ta-177



39

73-Ta-177

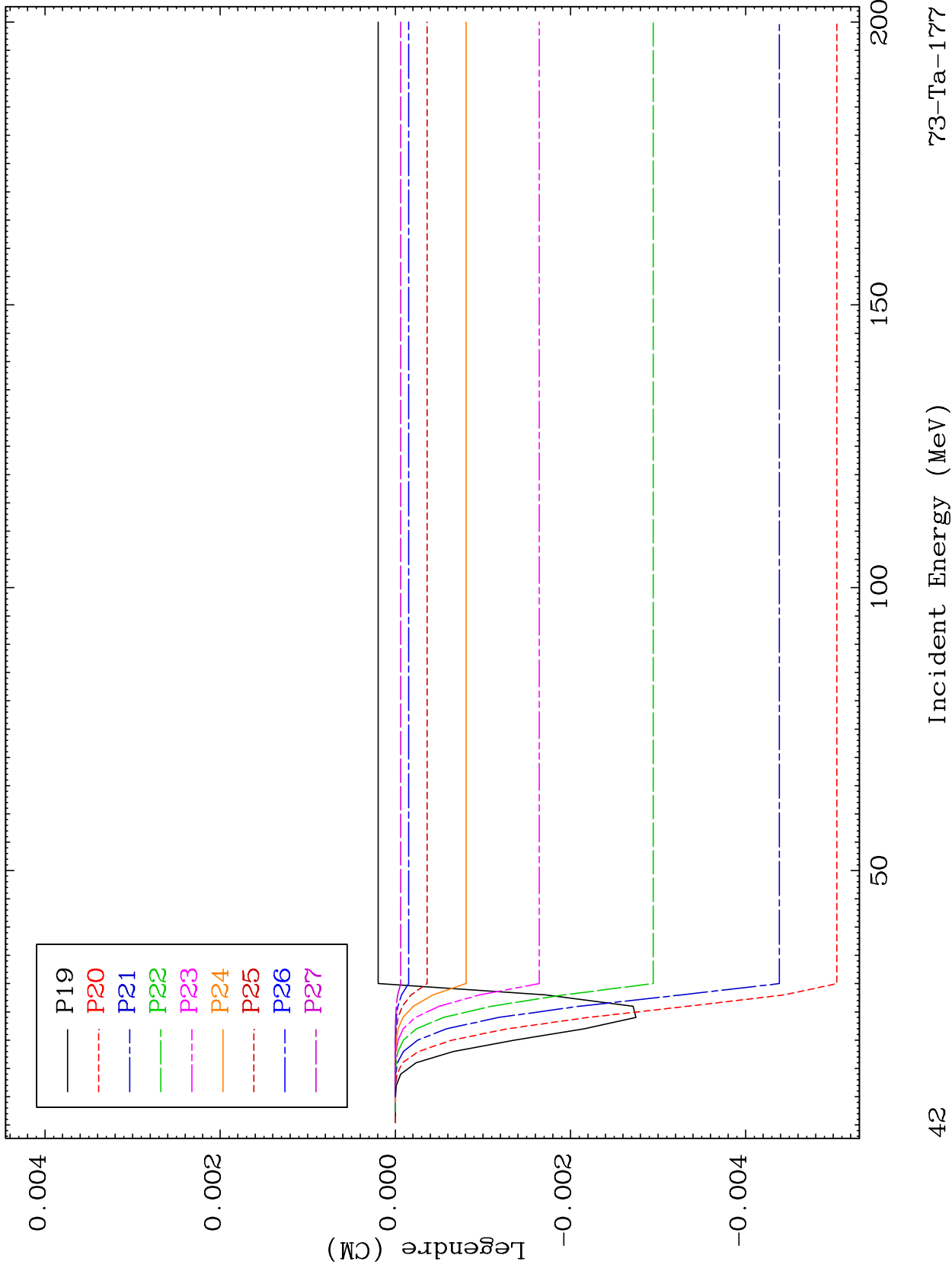




MAT 7316

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

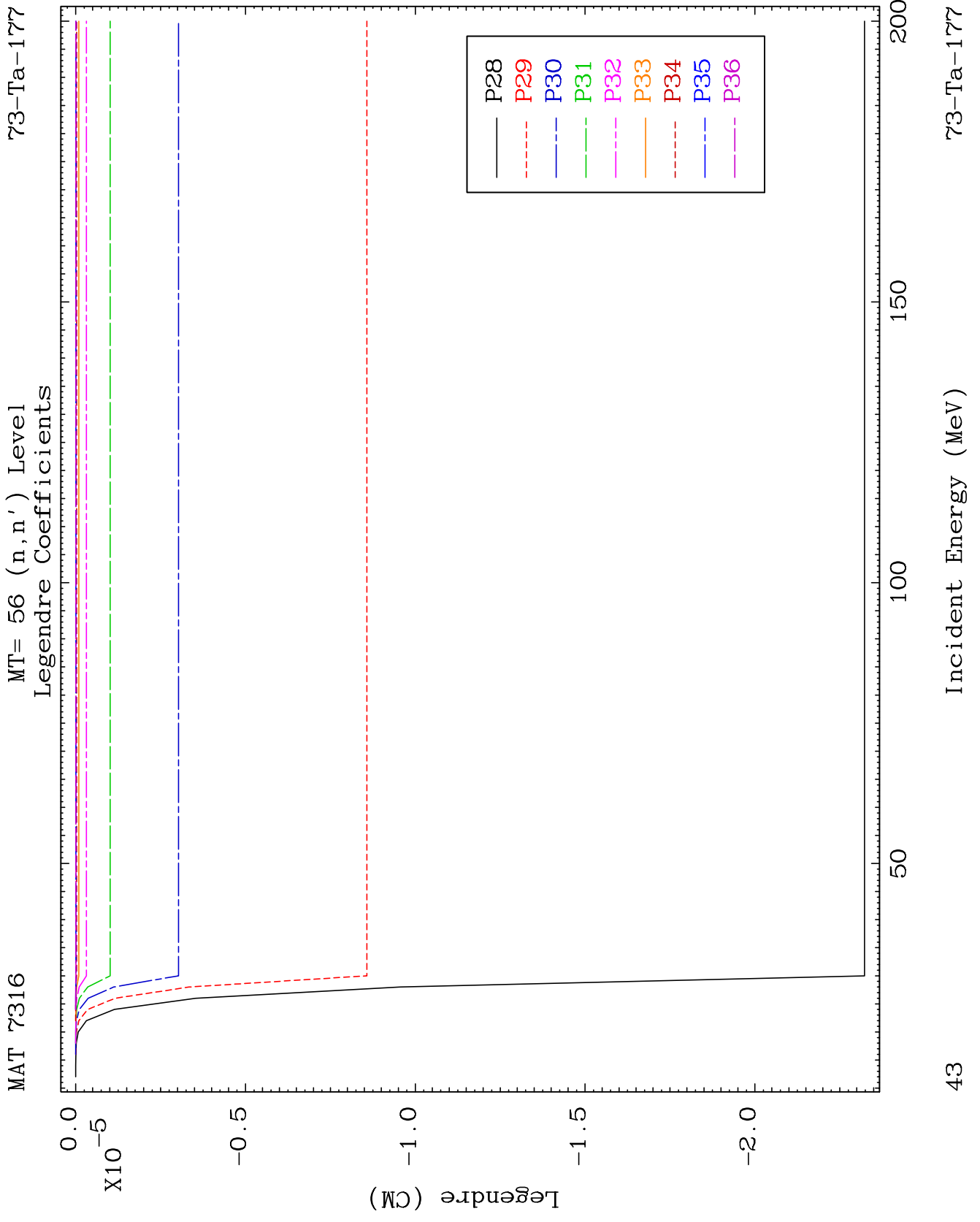
⁷³Ta-177



42

Incident Energy (MeV)

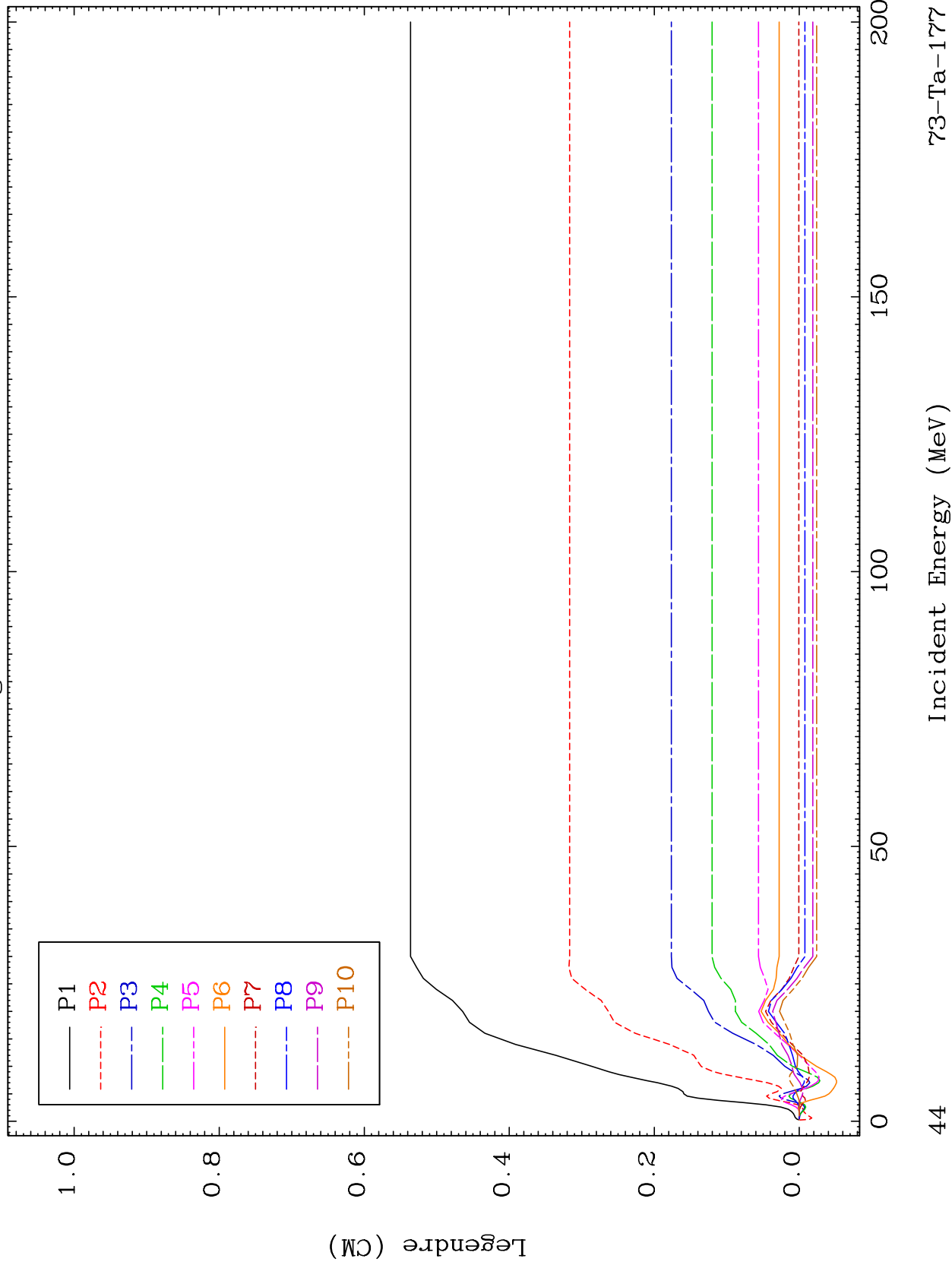
⁷³Ta-177



MAT 7316

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

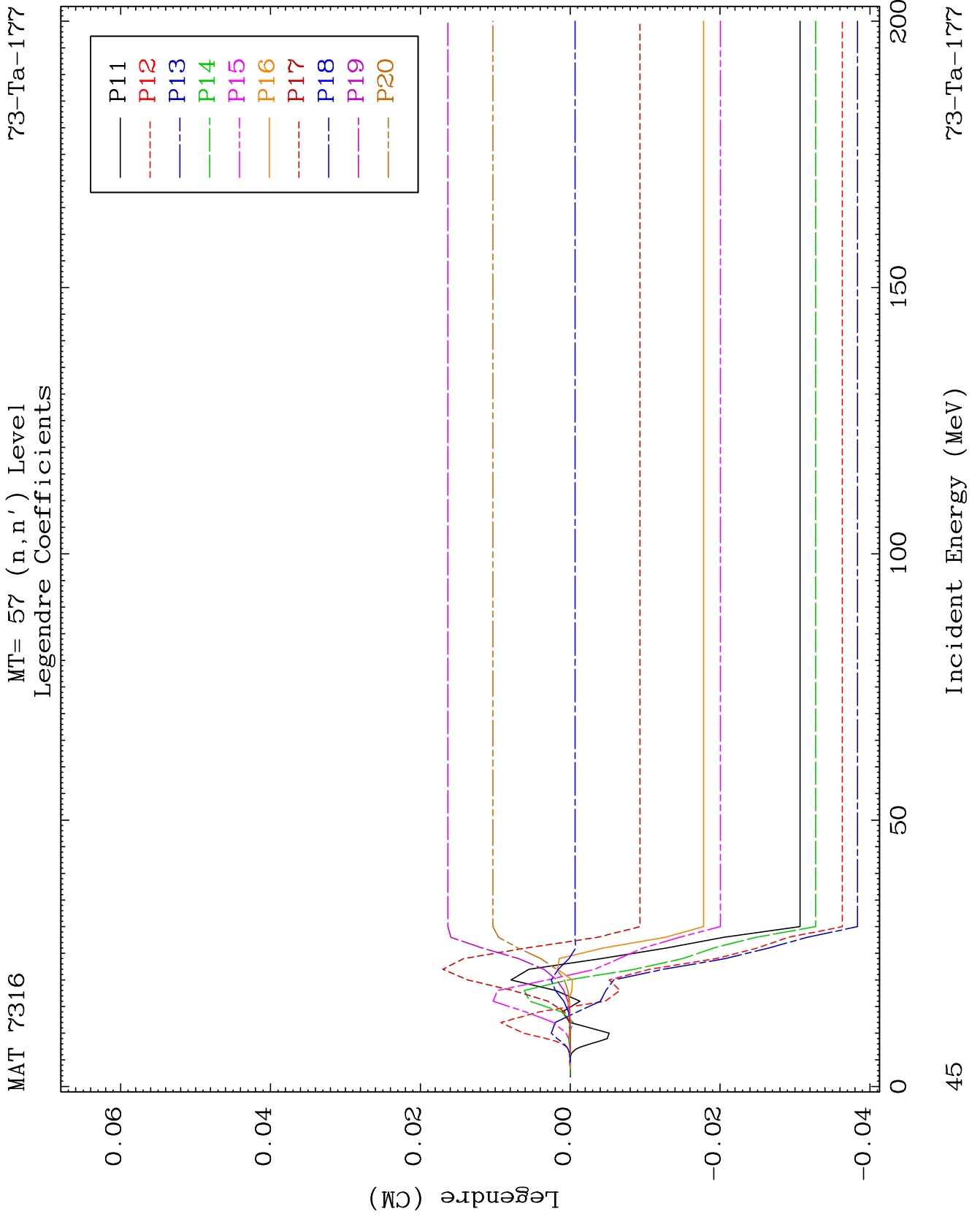
⁷³Ta-177



44

Incident Energy (MeV)

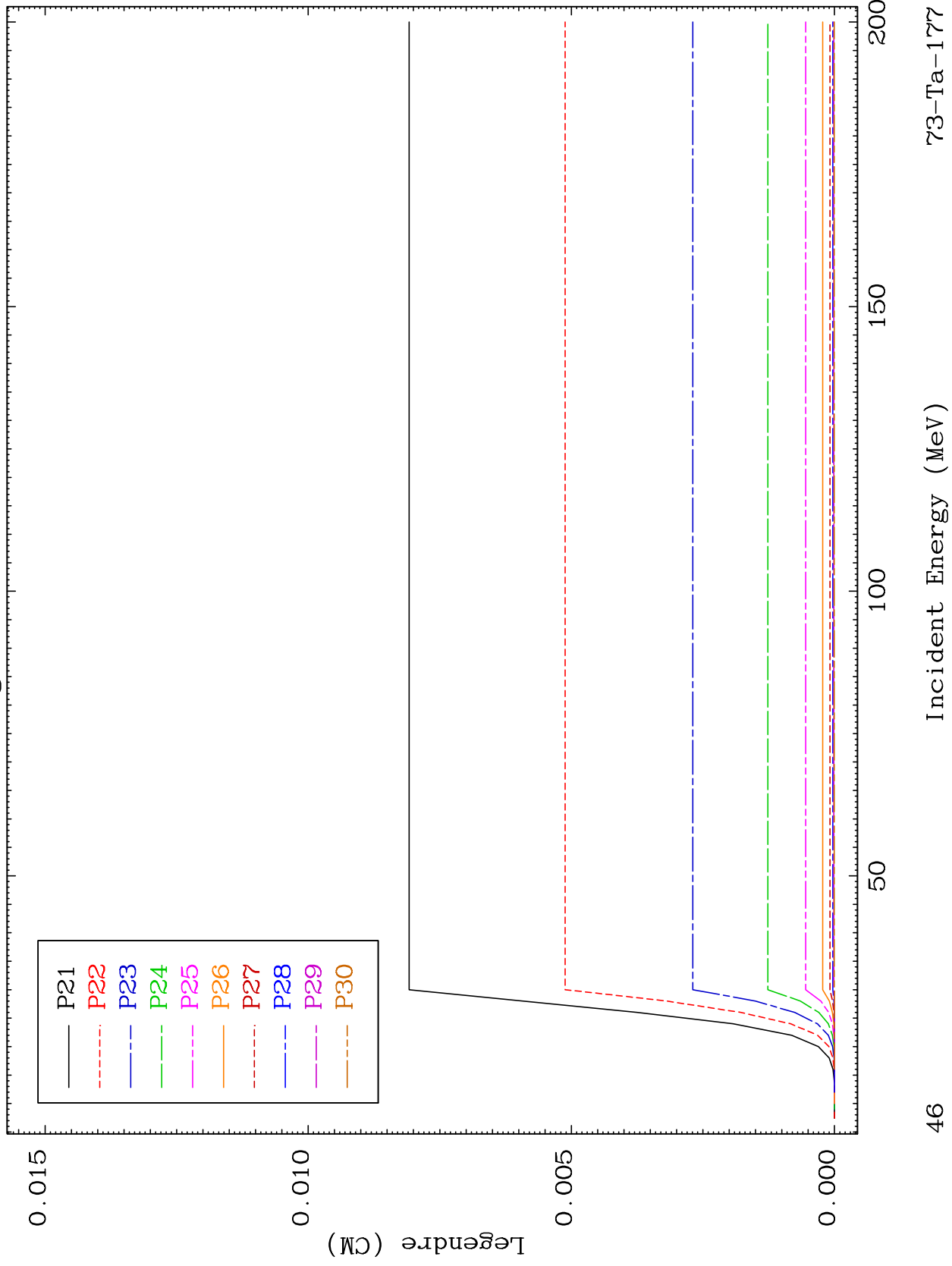
⁷³Ta-177



MAT 7316

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

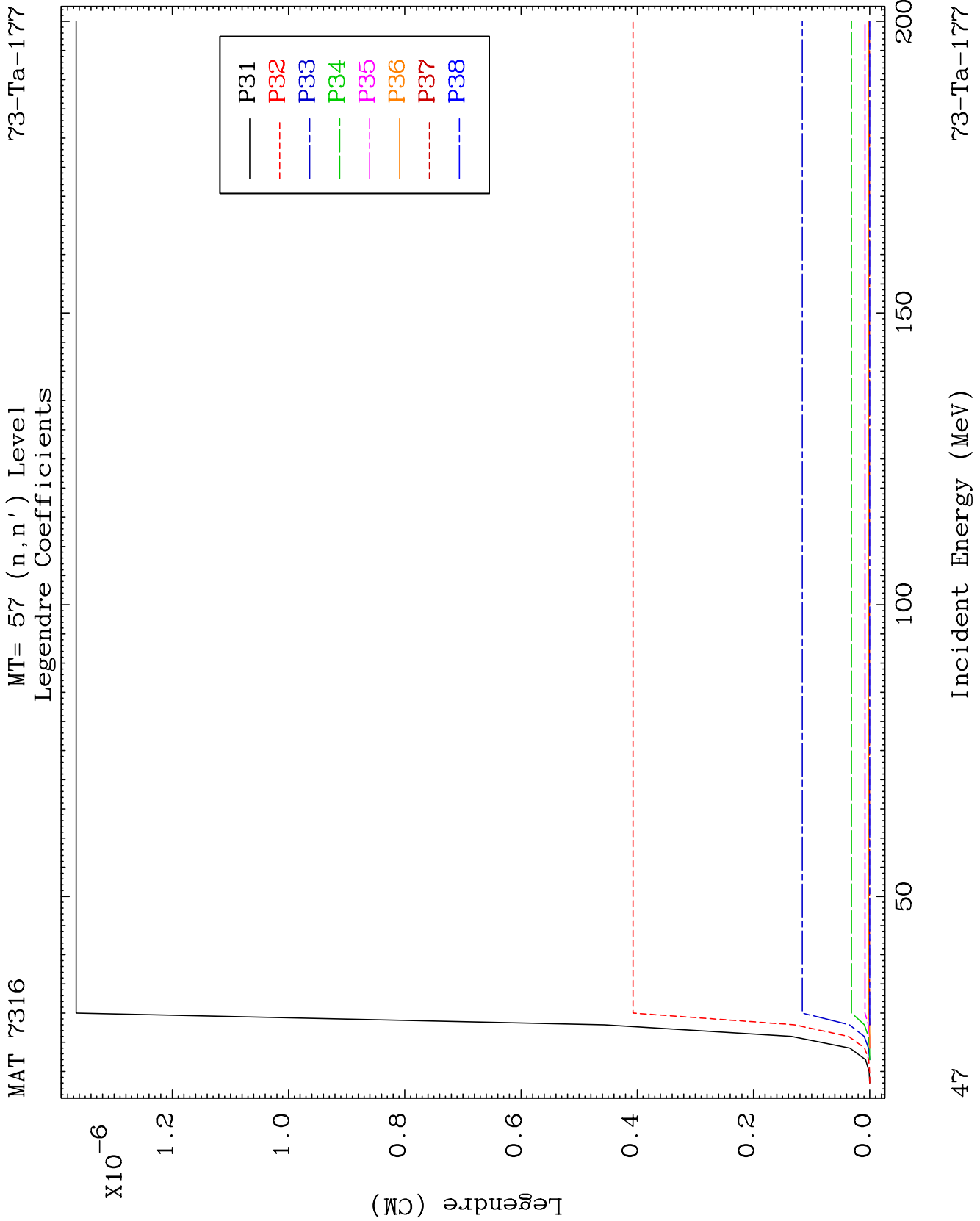
73-Ta-177



46

Incident Energy (MeV)

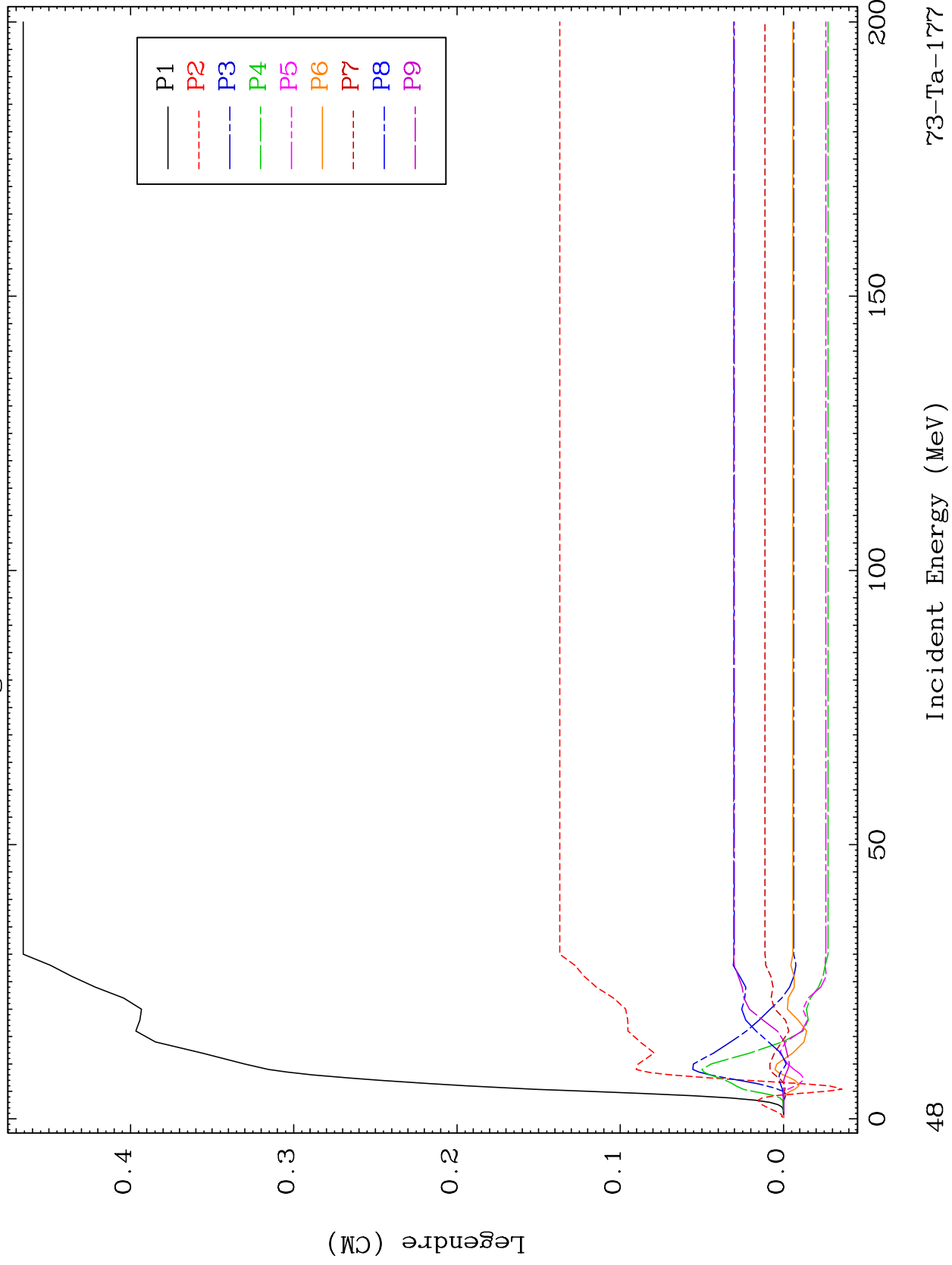
73-Ta-177



MAT 7316

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

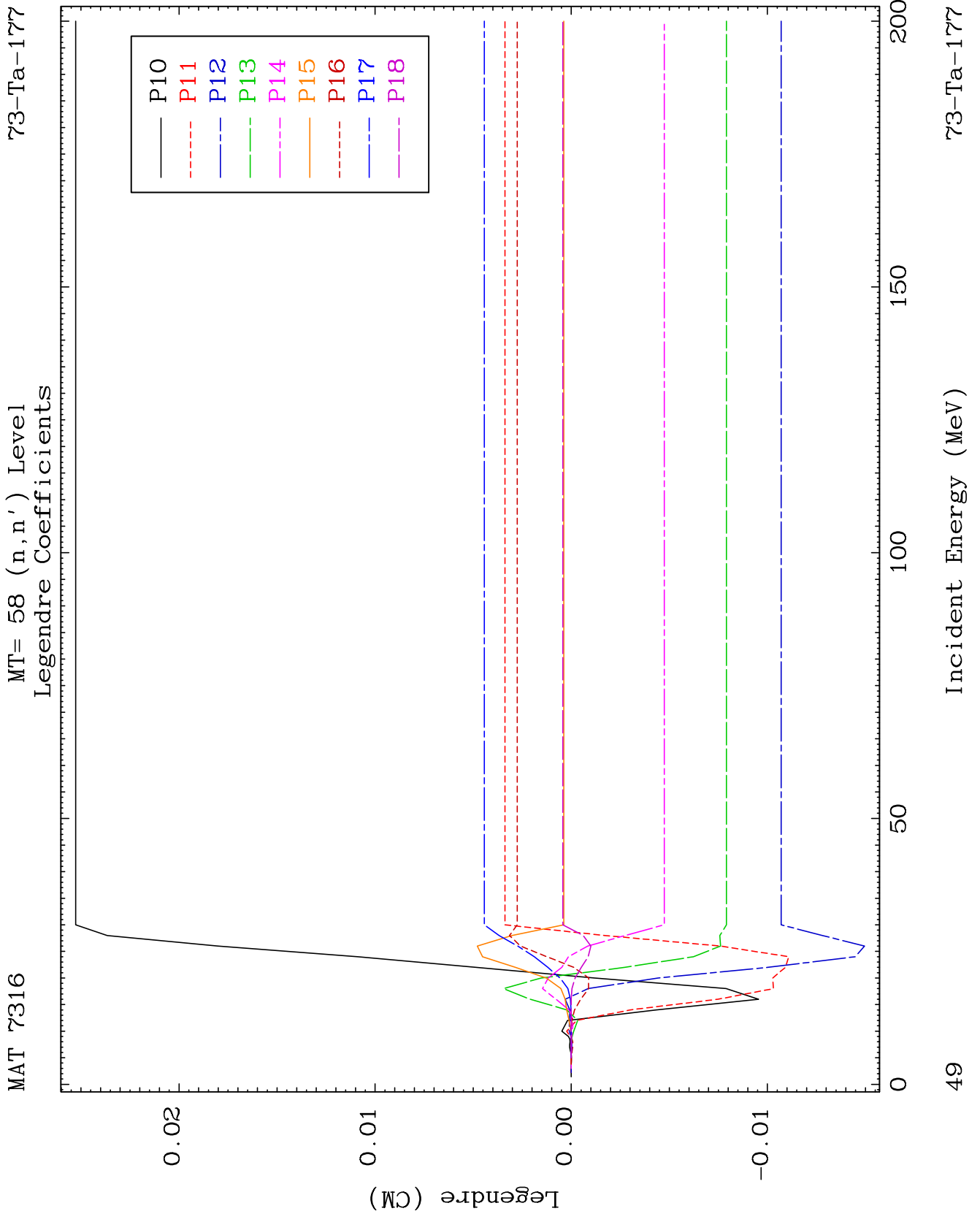
⁷³Ta-177



⁷³Ta-177

Incident Energy (MeV)

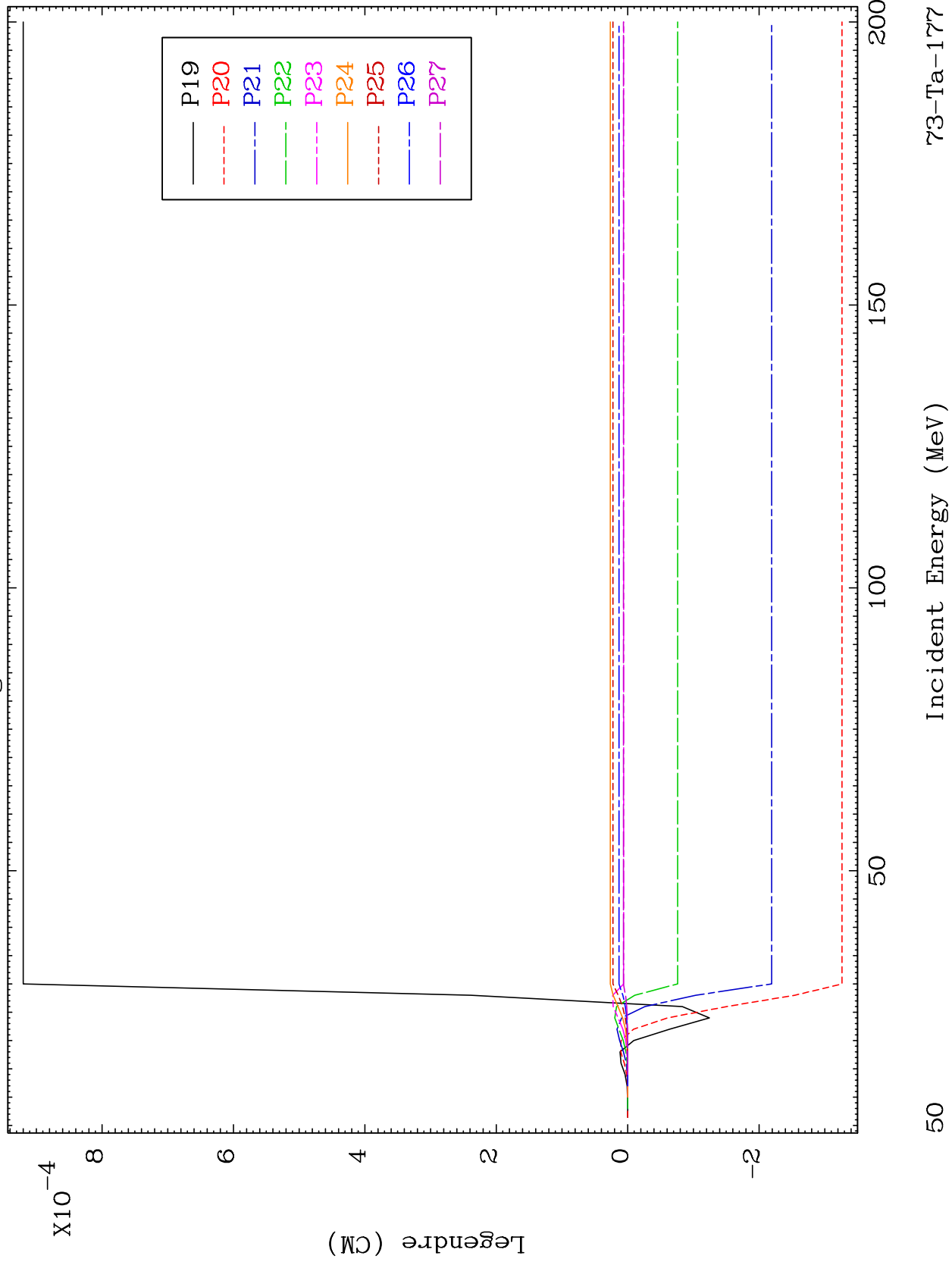
48



MAT 7316

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

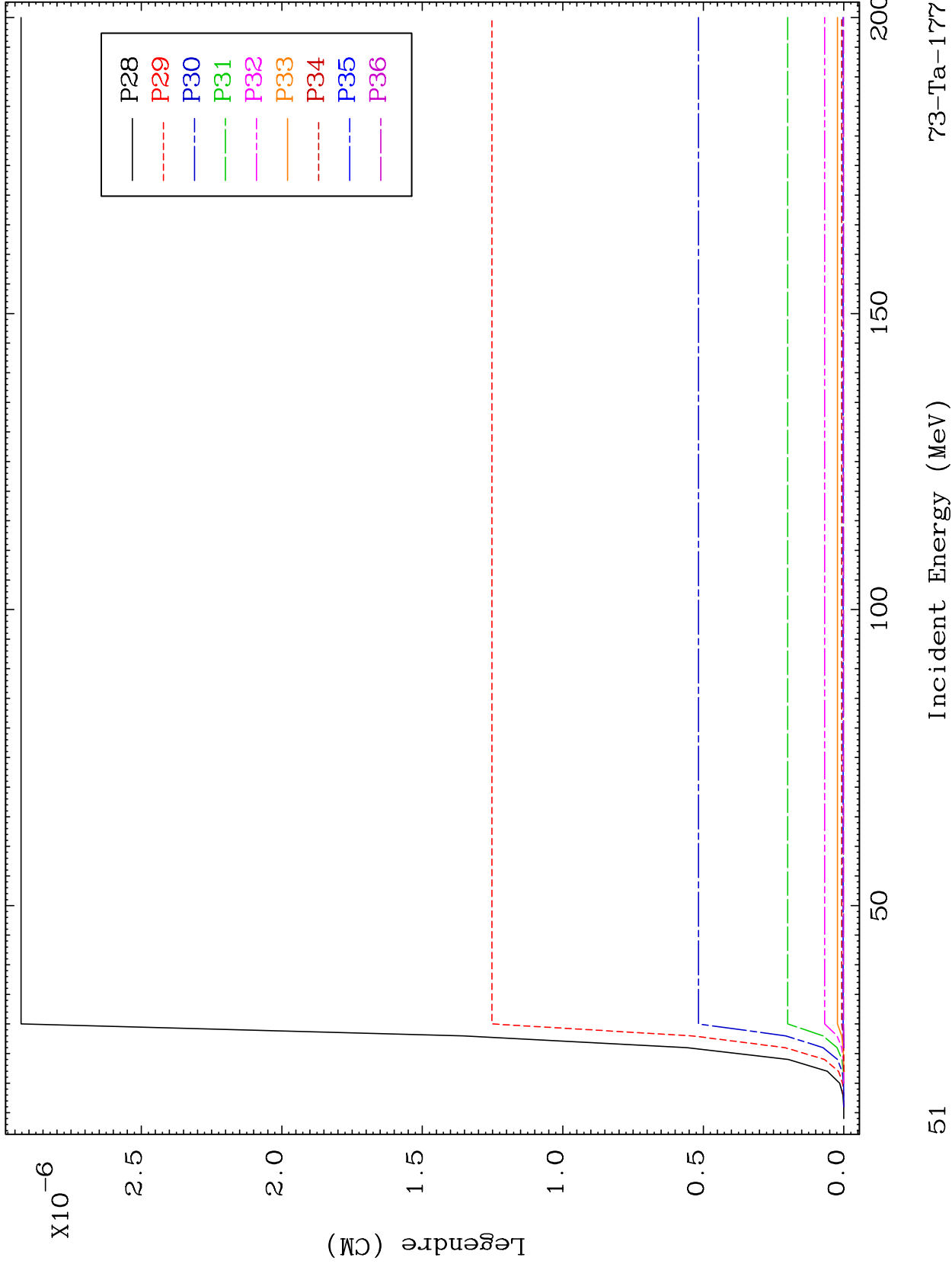
73-Ta-177



MAT 7316

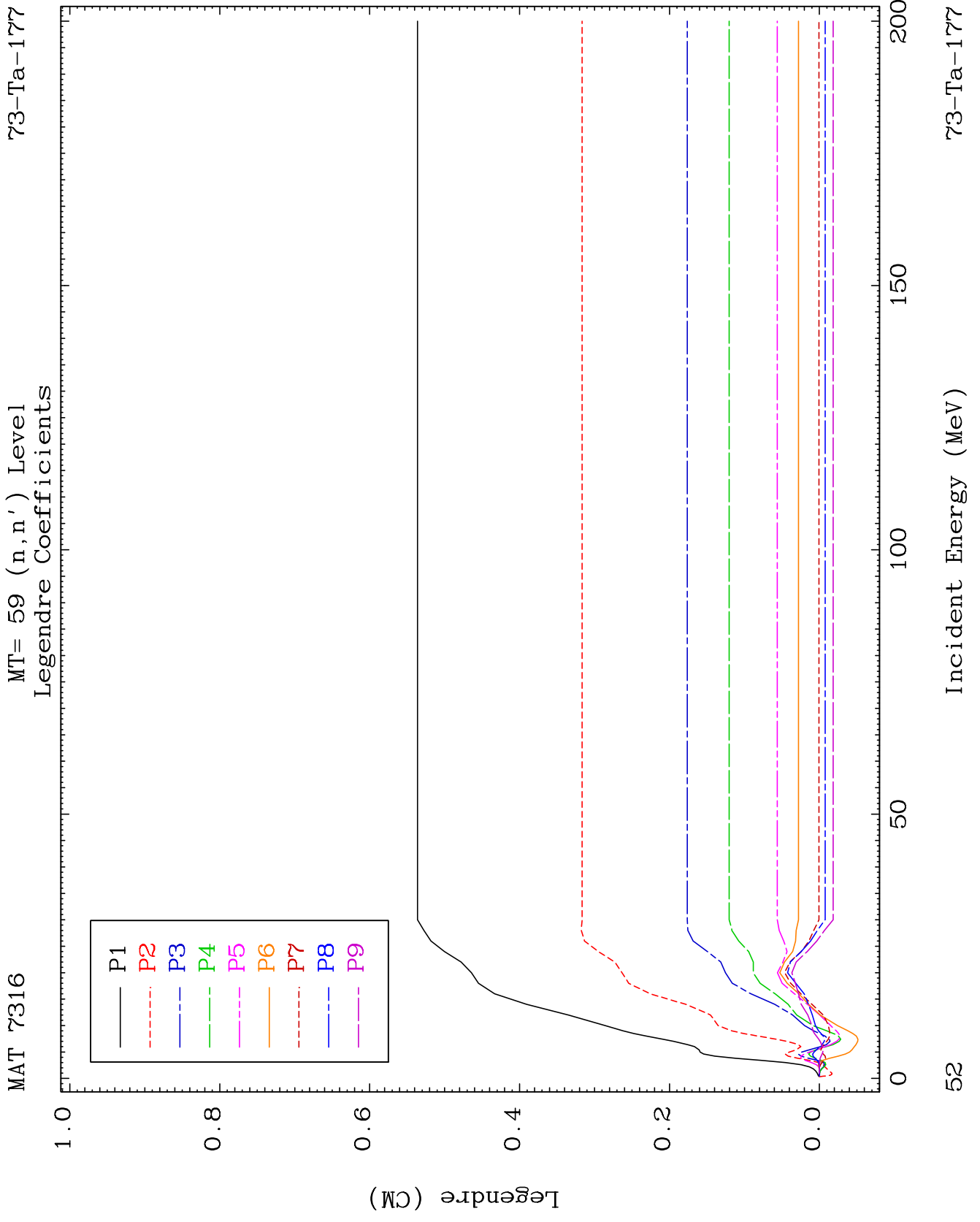
MT= 58 (n,n') Level
Legendre Coefficients

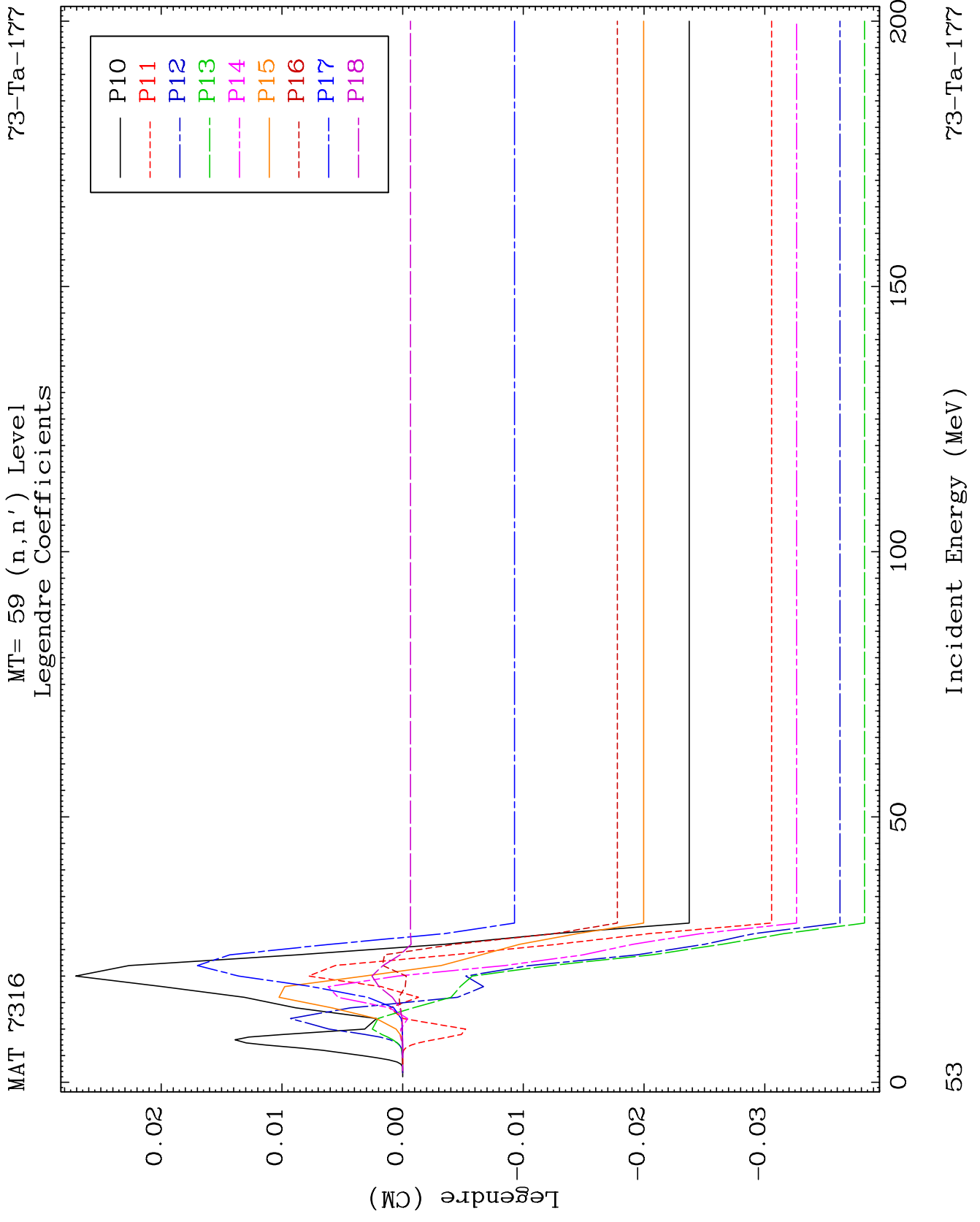
73-Ta-177

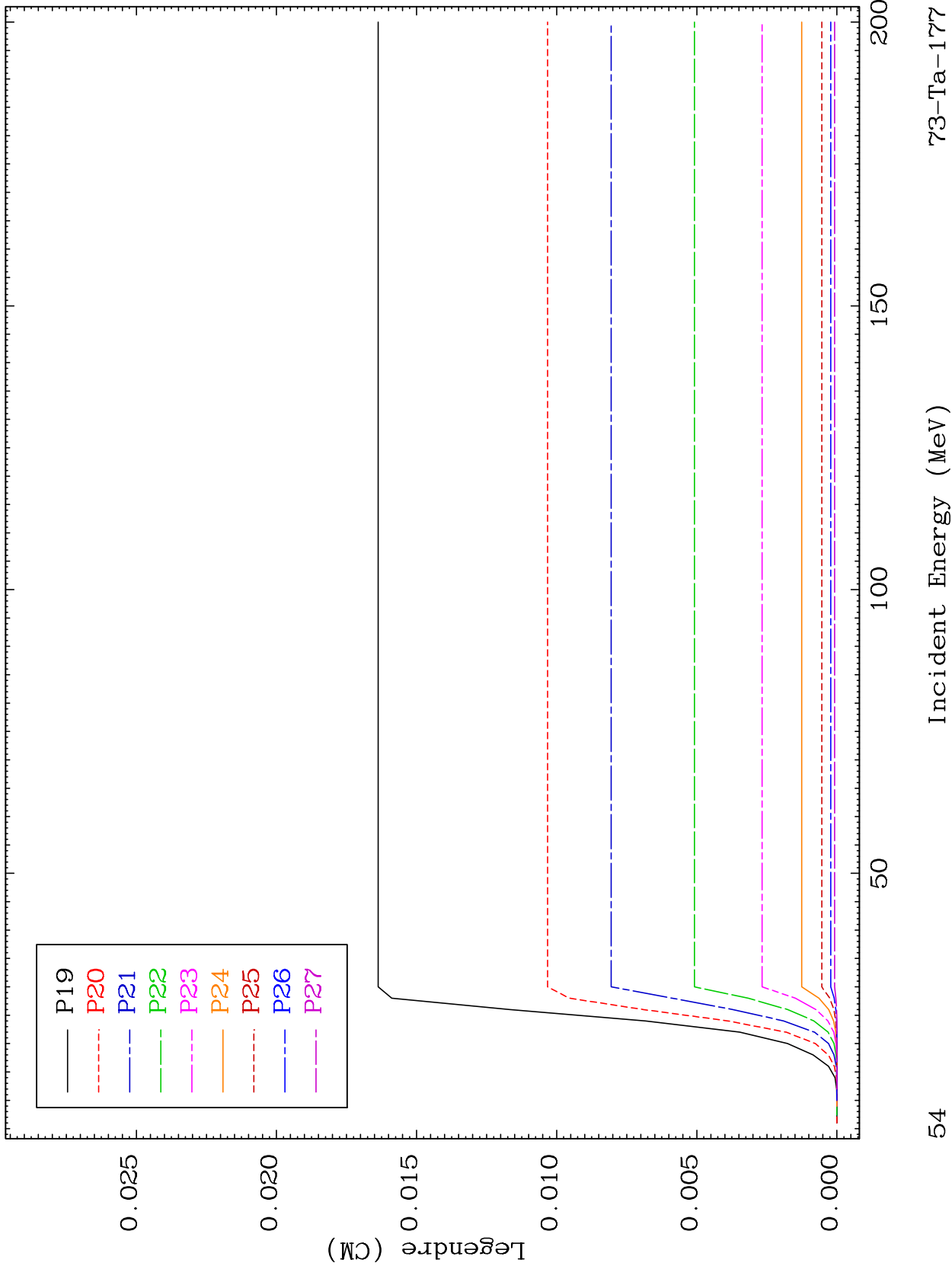


51

73-Ta-177



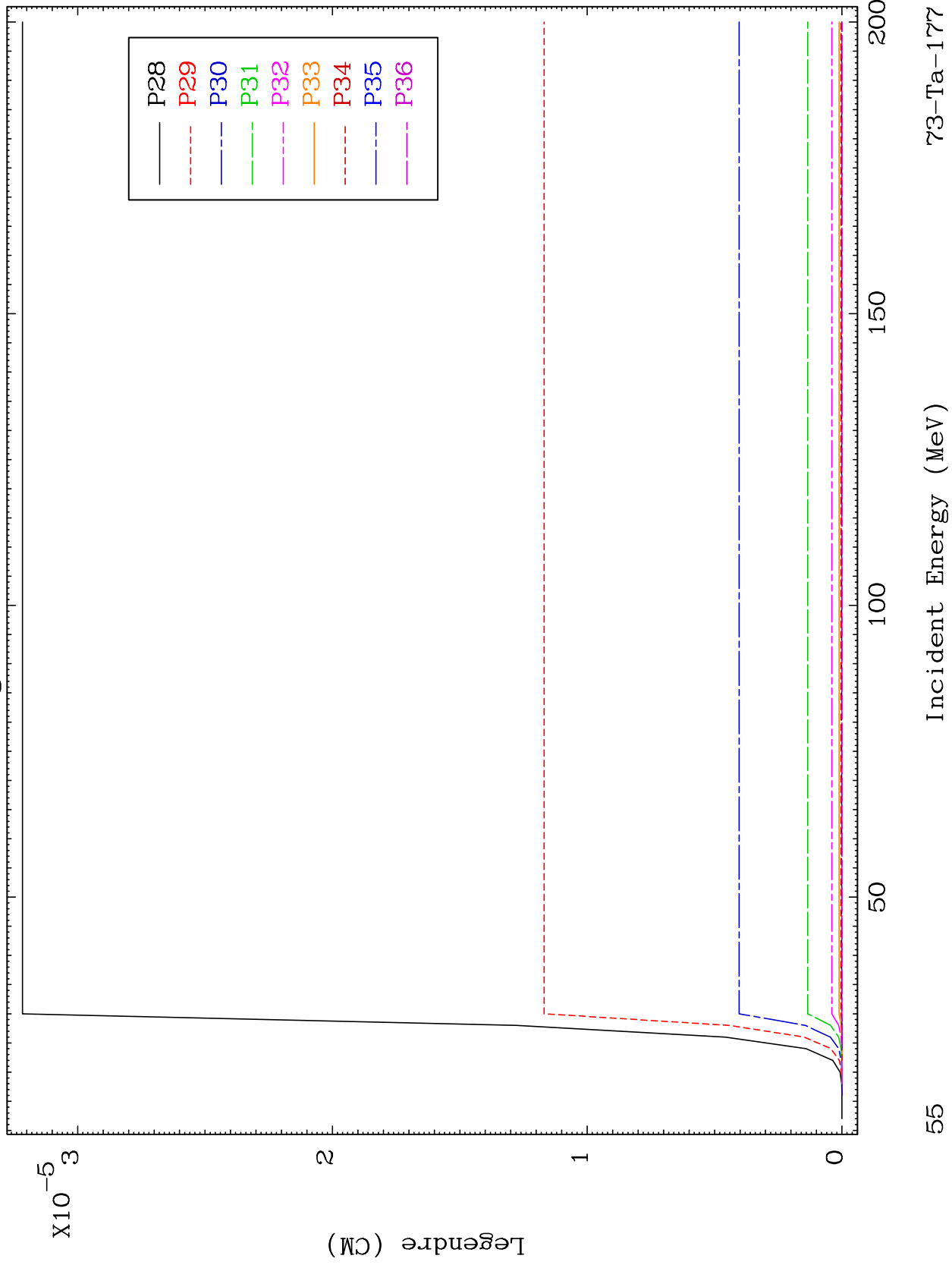




MAT 7316

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

73-Ta-177



55

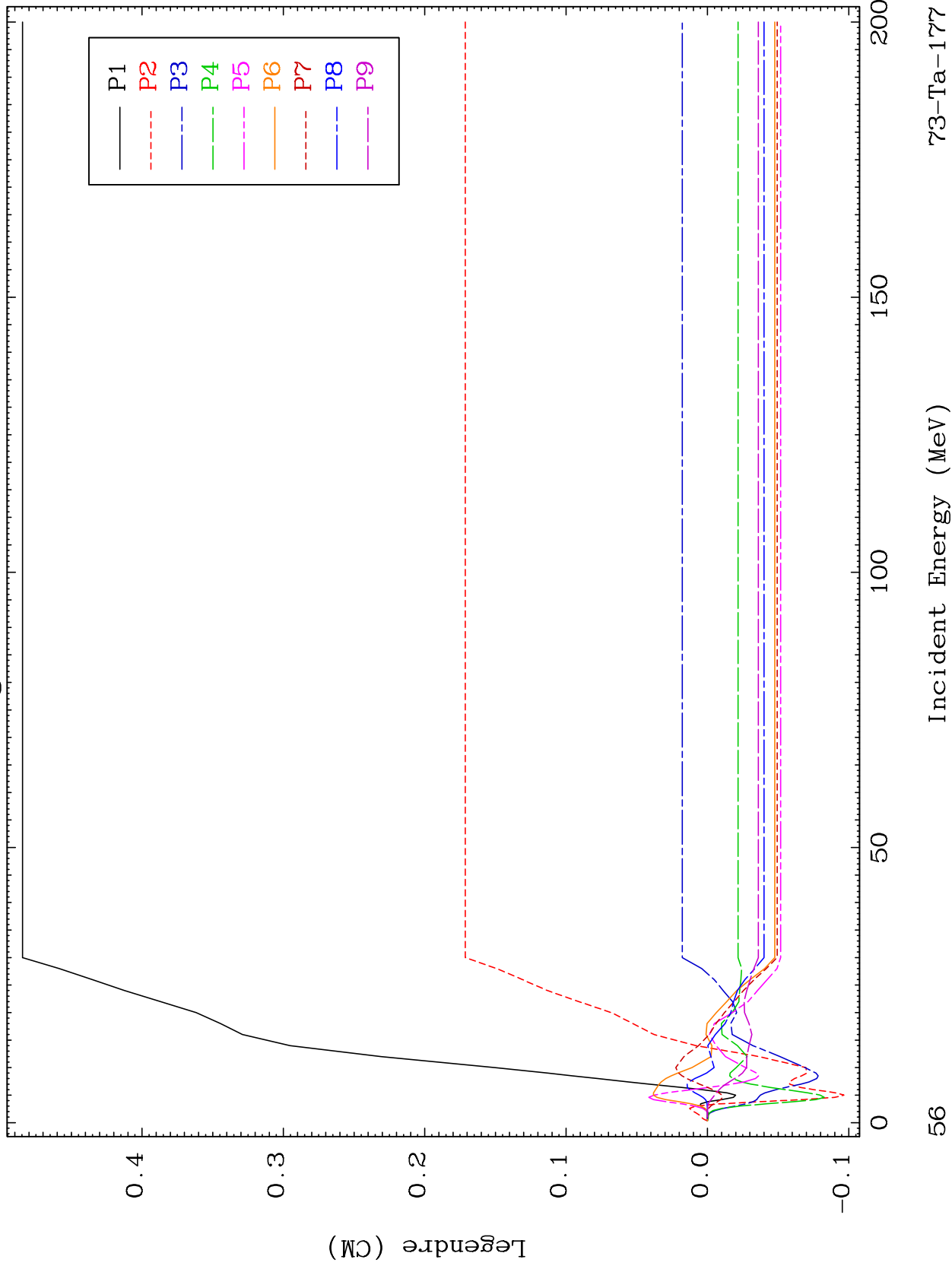
Incident Energy (MeV)

73-Ta-177

MAT 7316

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

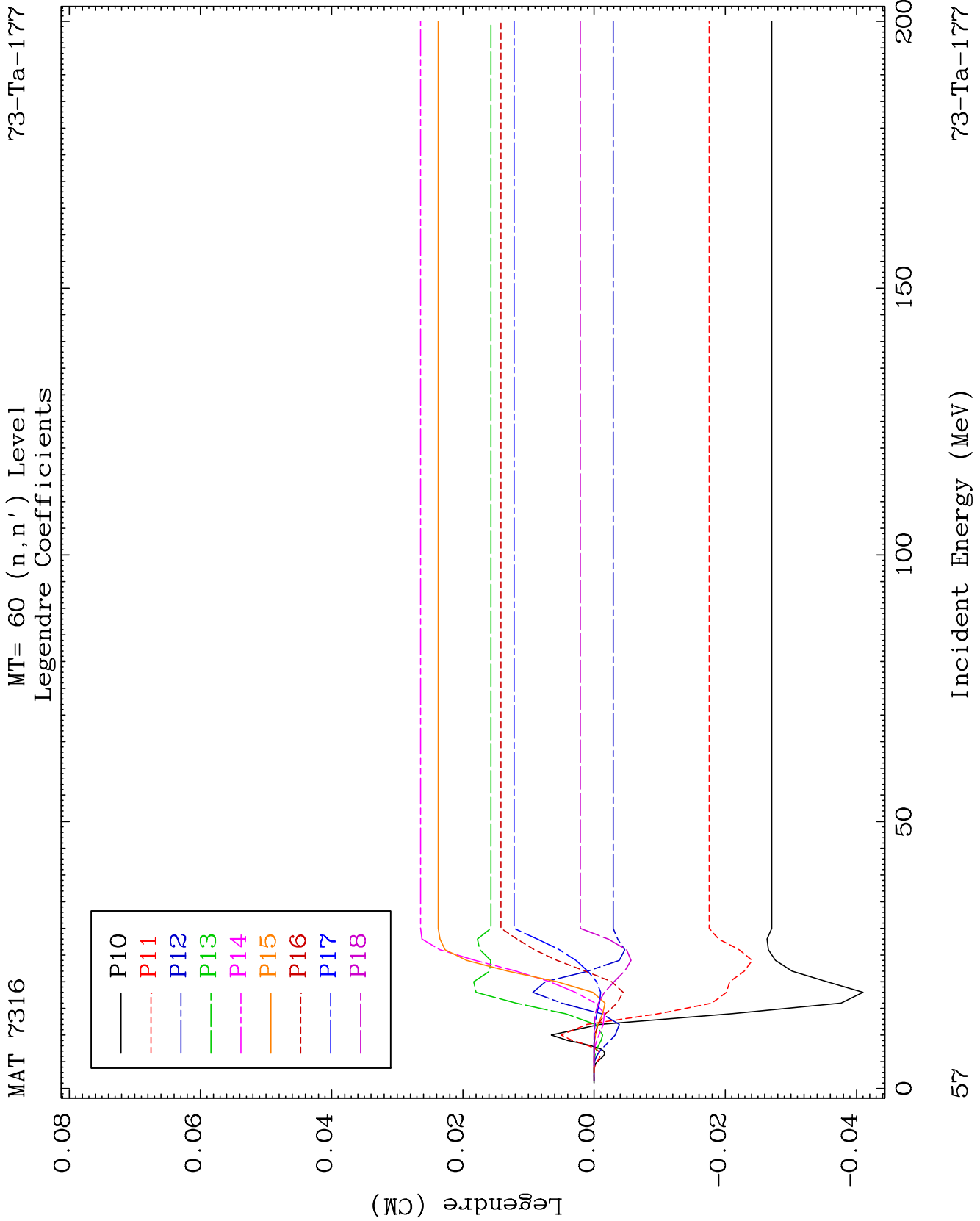
73-Ta-177



73-Ta-177

Incident Energy (MeV)

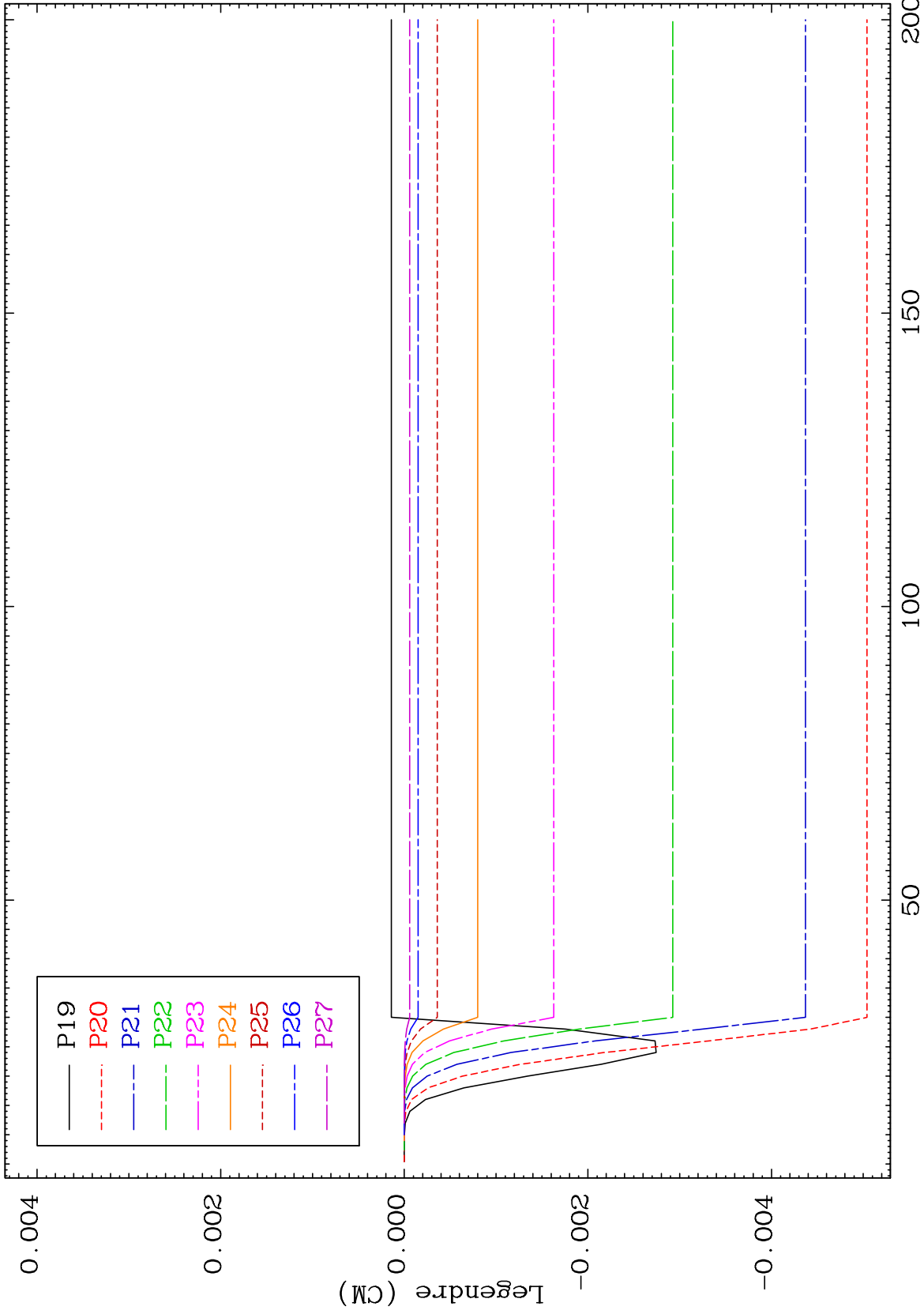
56

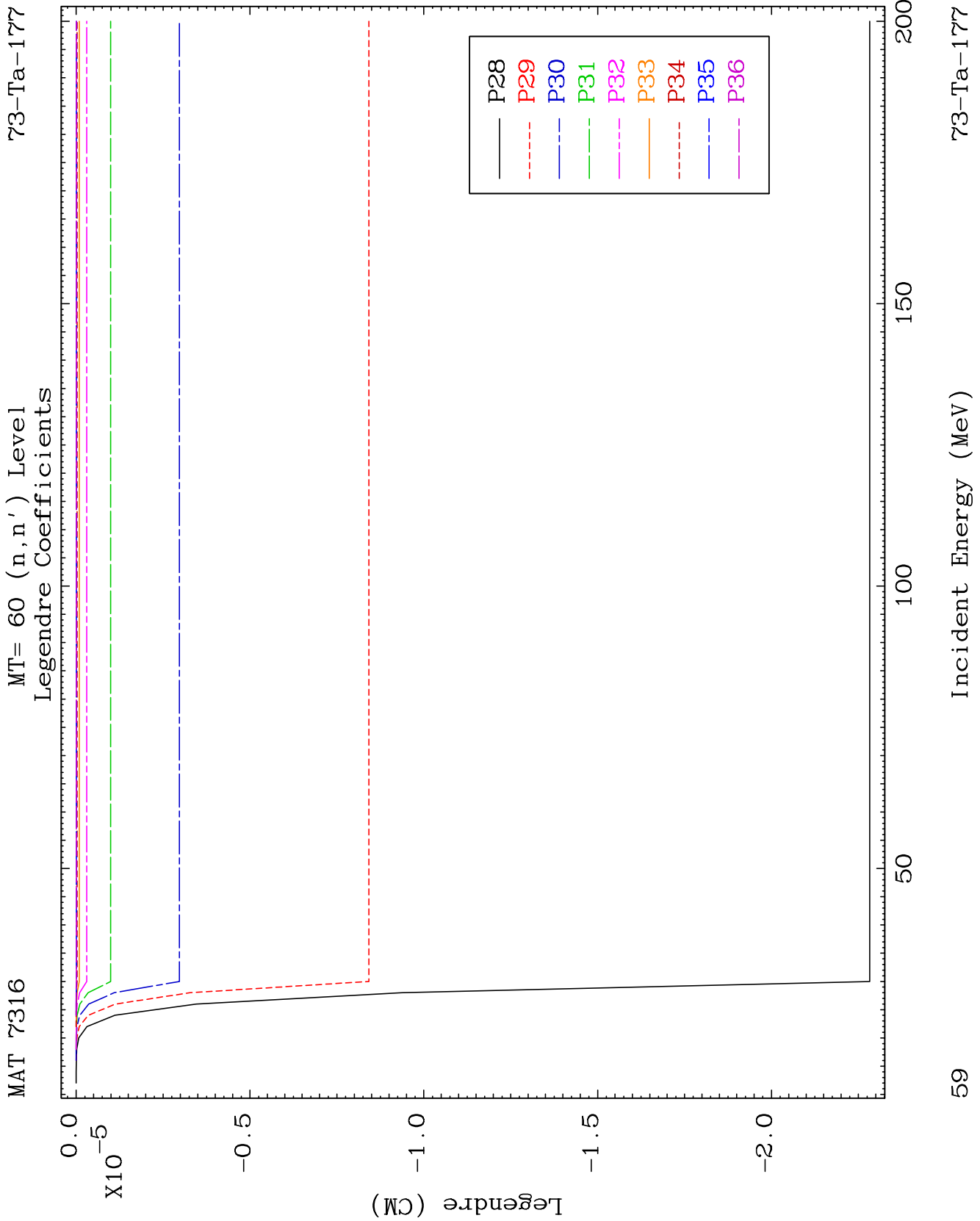


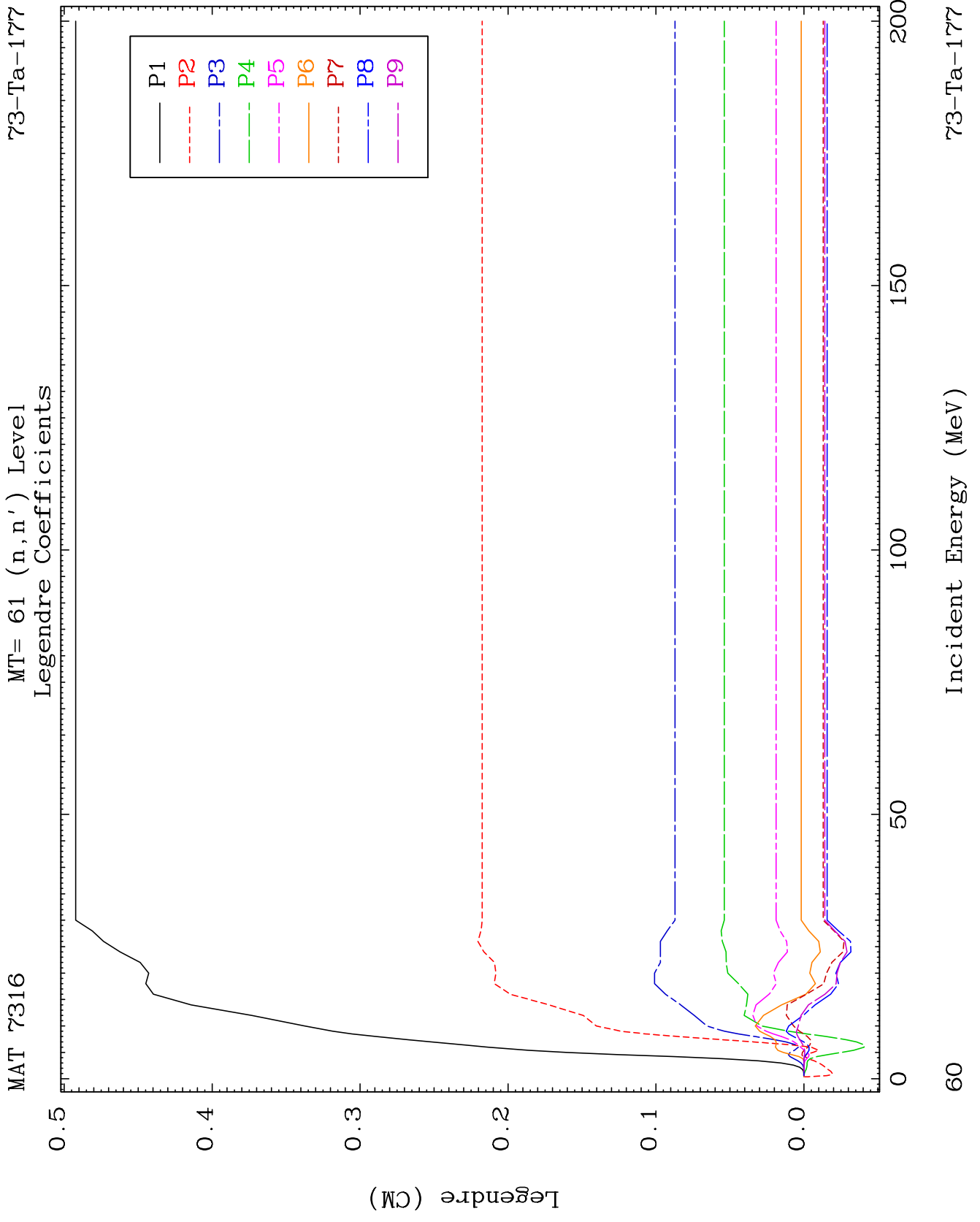
MAT 7316

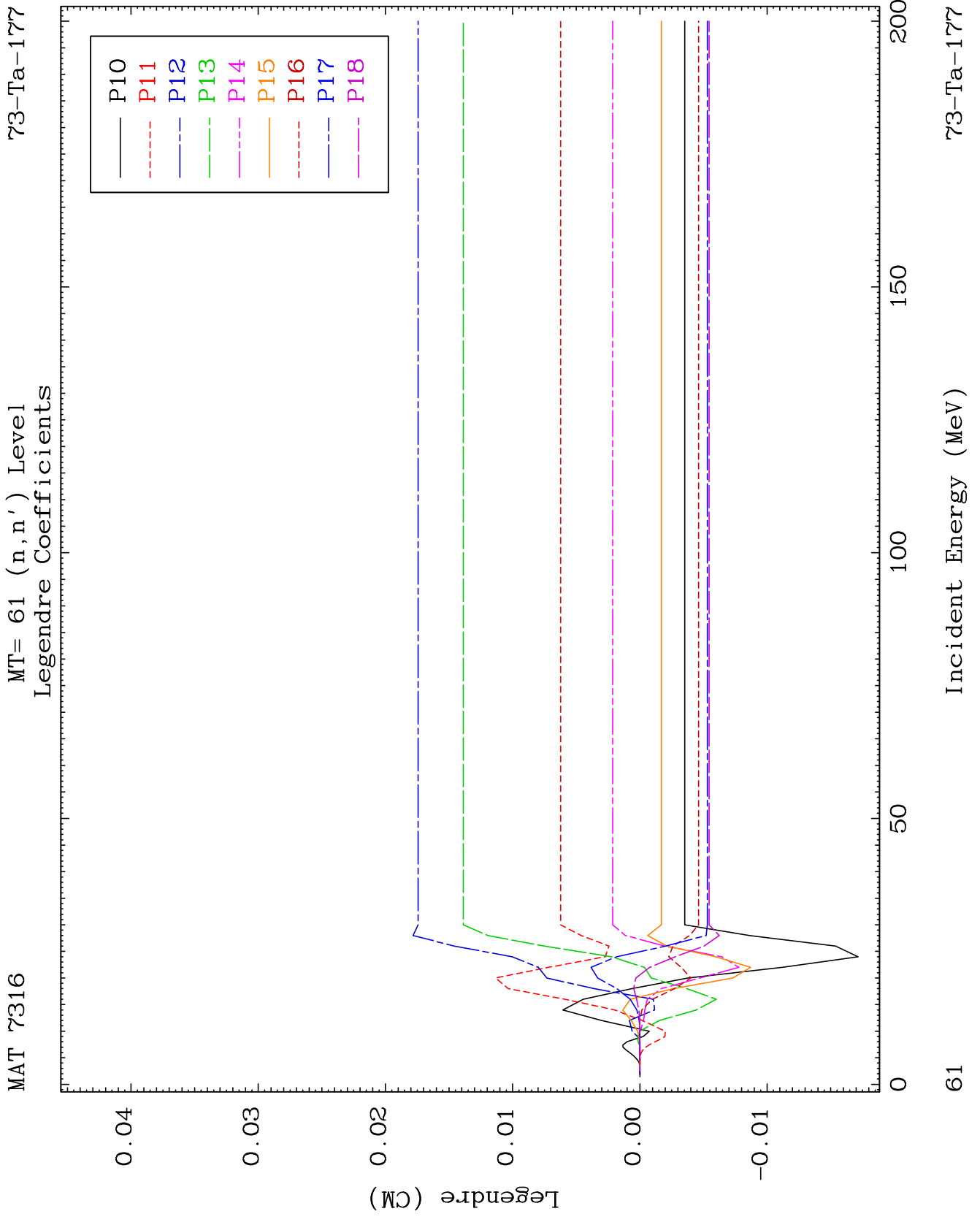
MT= 60 (n,n') Level
Legendre Coefficients

73-Ta-177





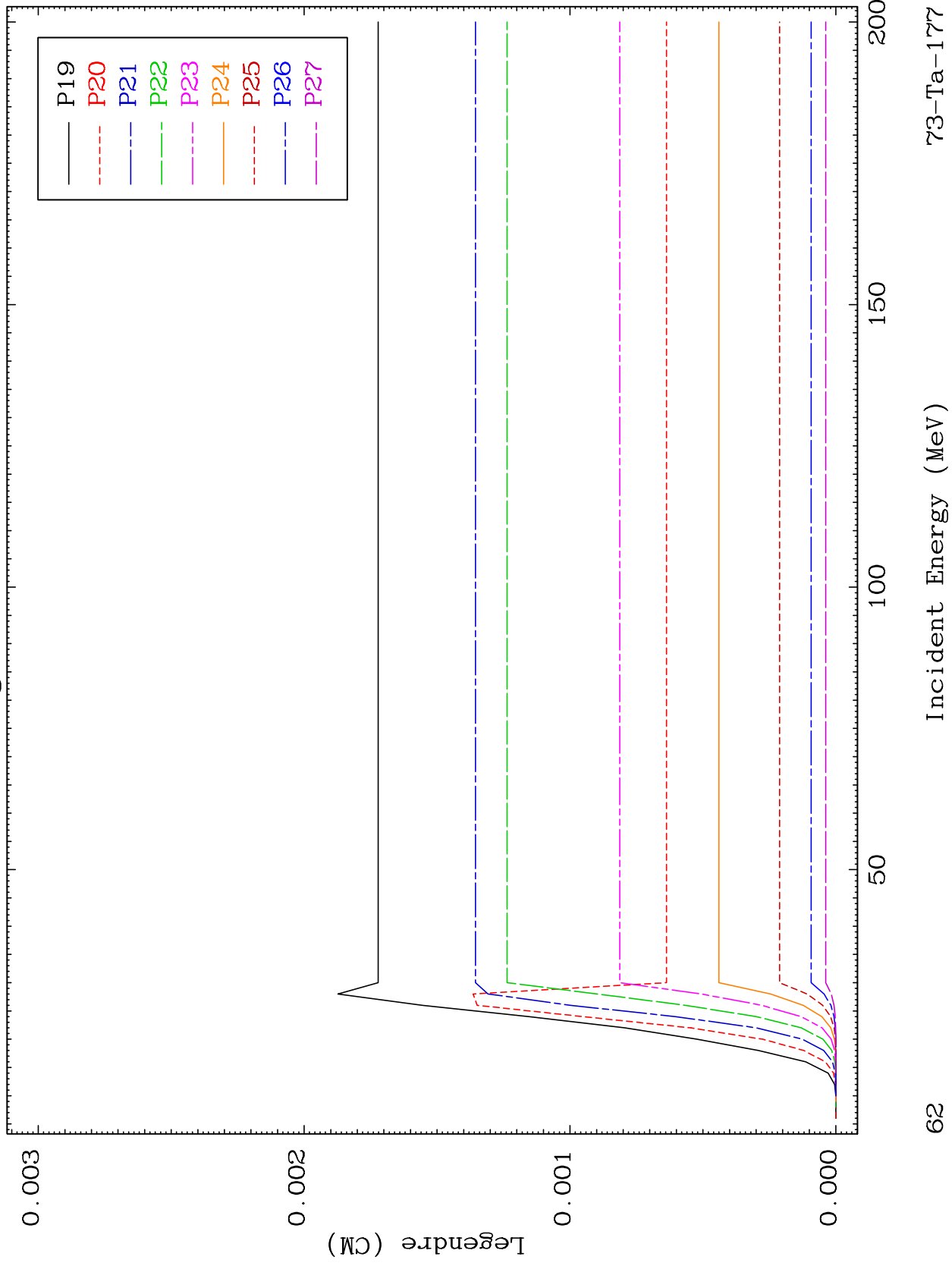




MAT 7316

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

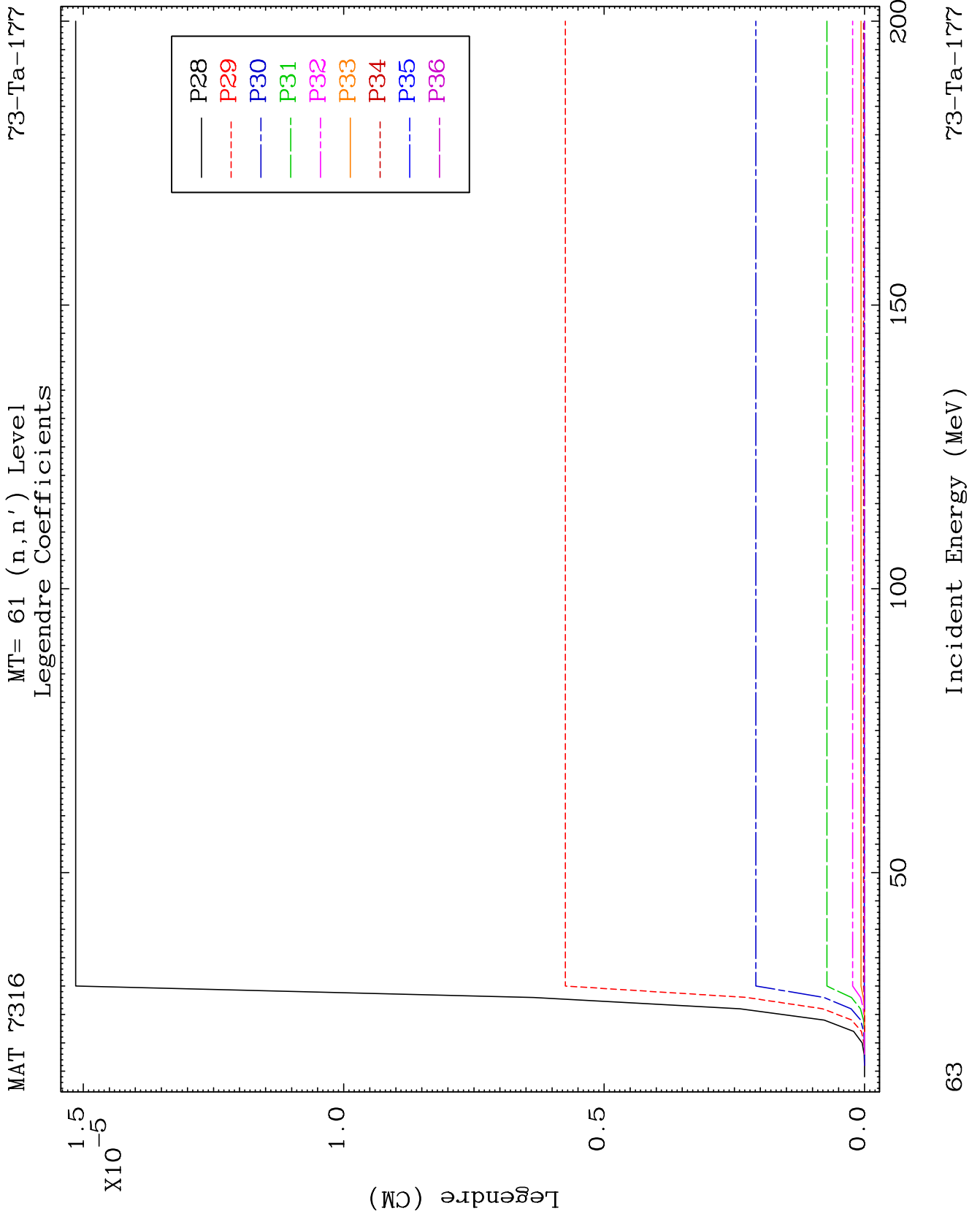
73-Ta-177

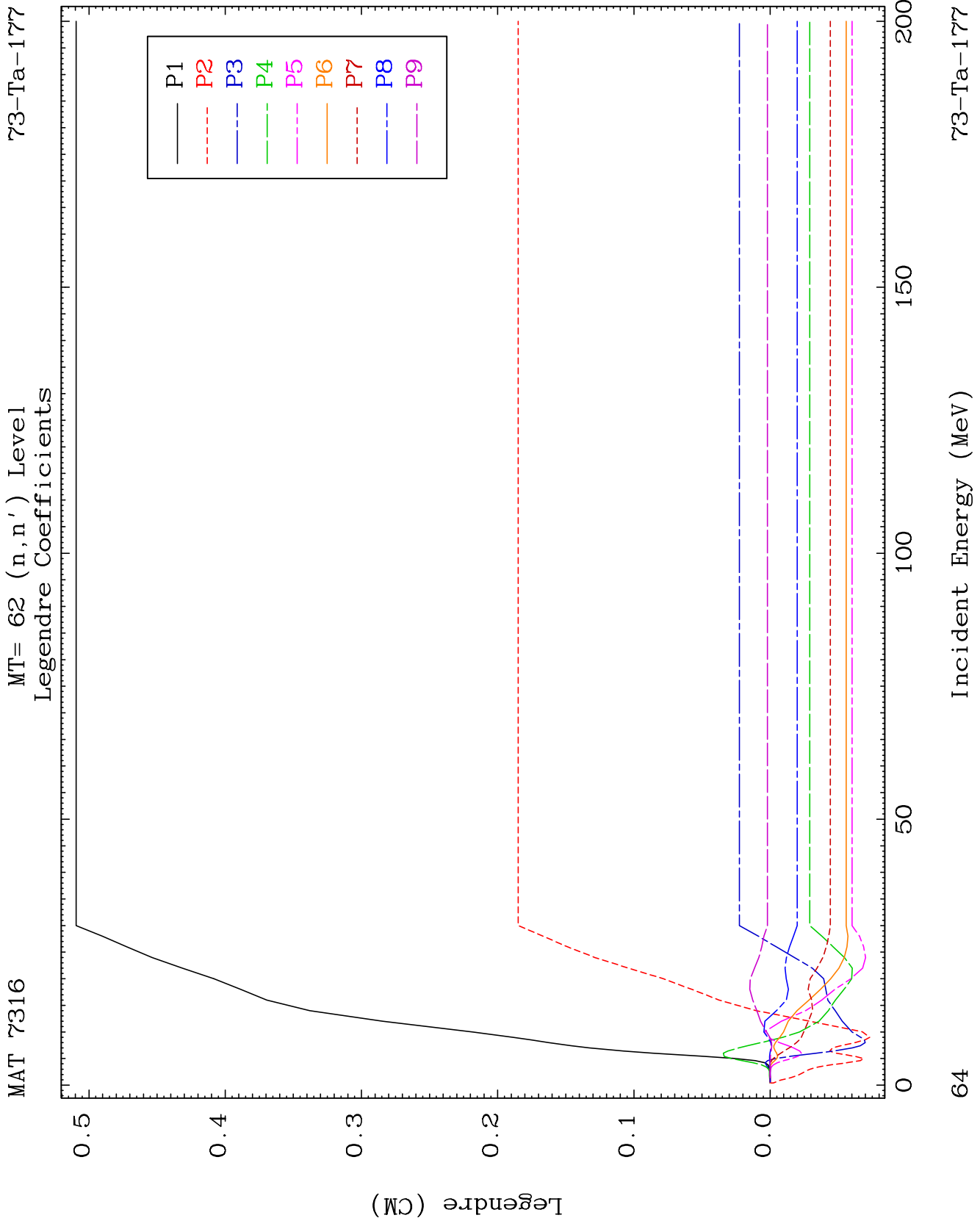


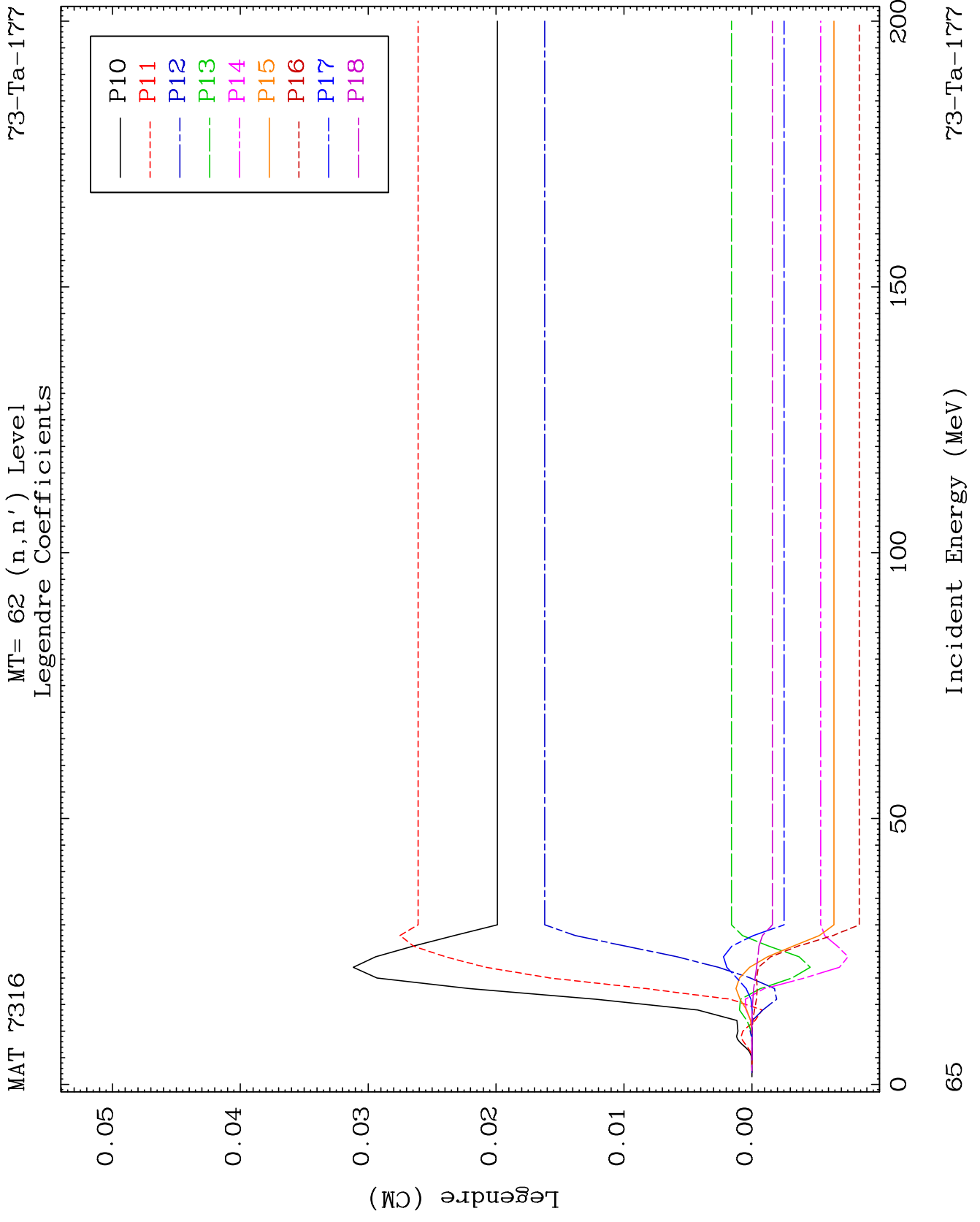
62

Incident Energy (MeV)

73-Ta-177



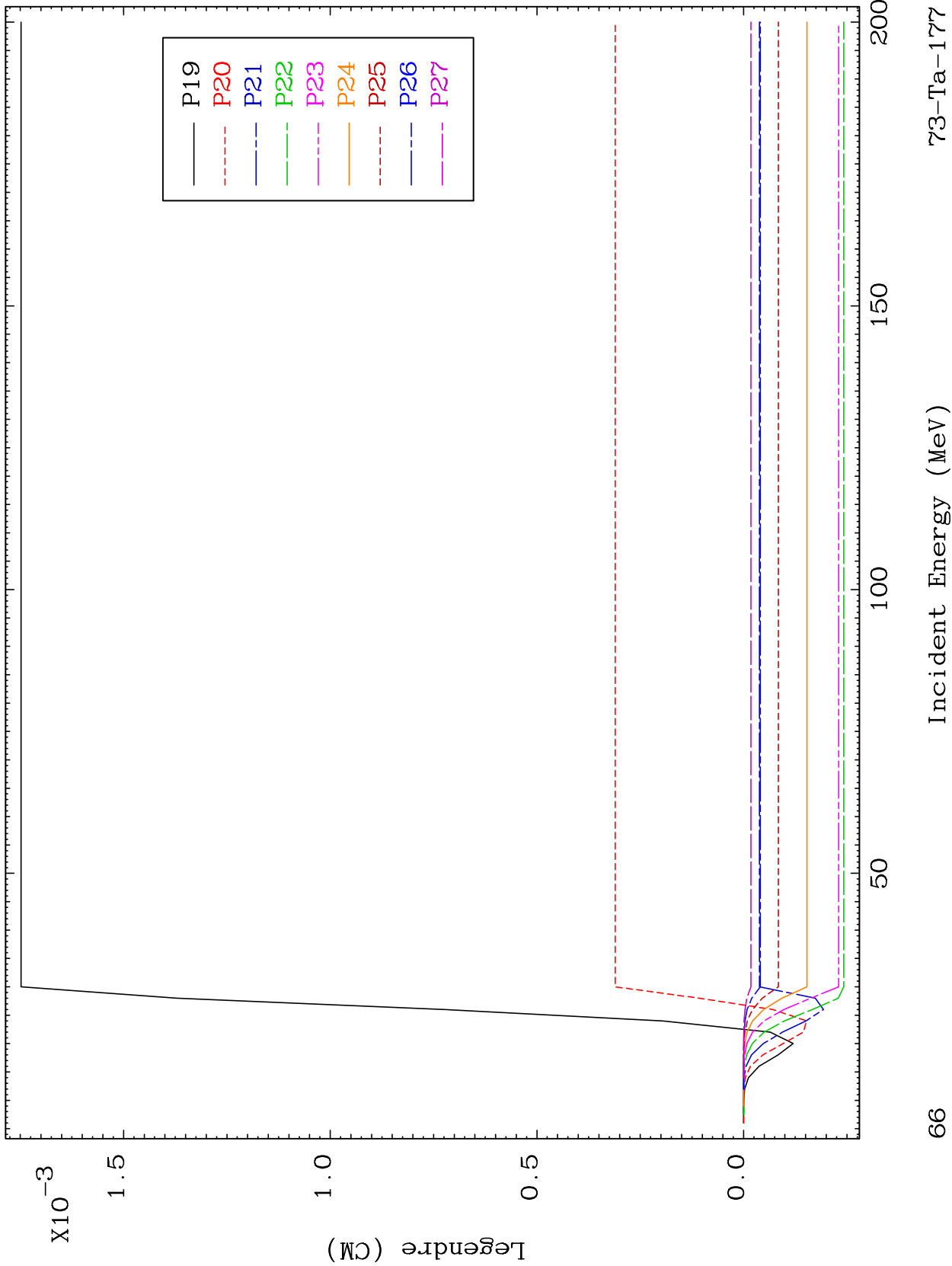




MAT 7316

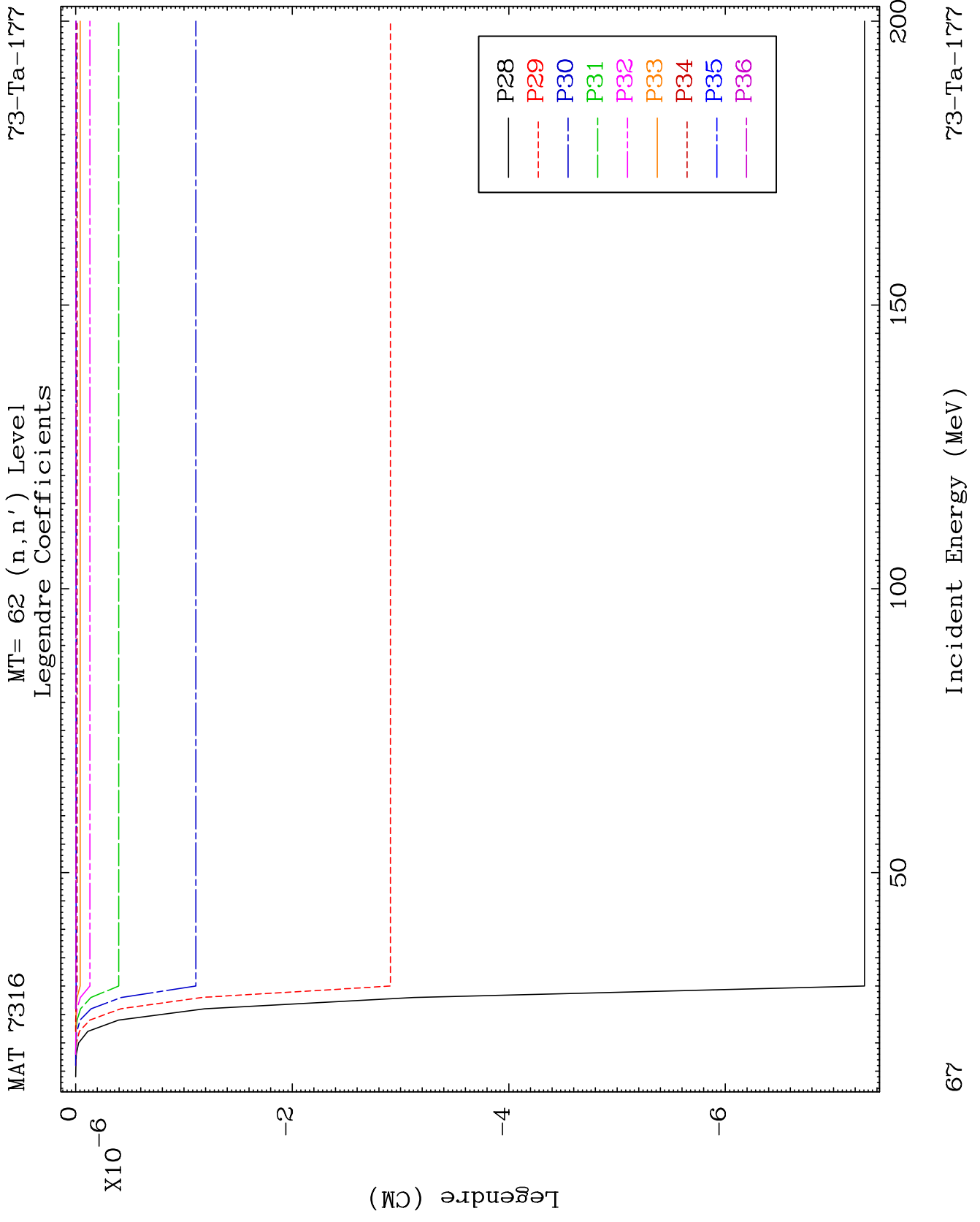
MT= 62 (n,n') Level
Legendre Coefficients

73-Ta-177



66

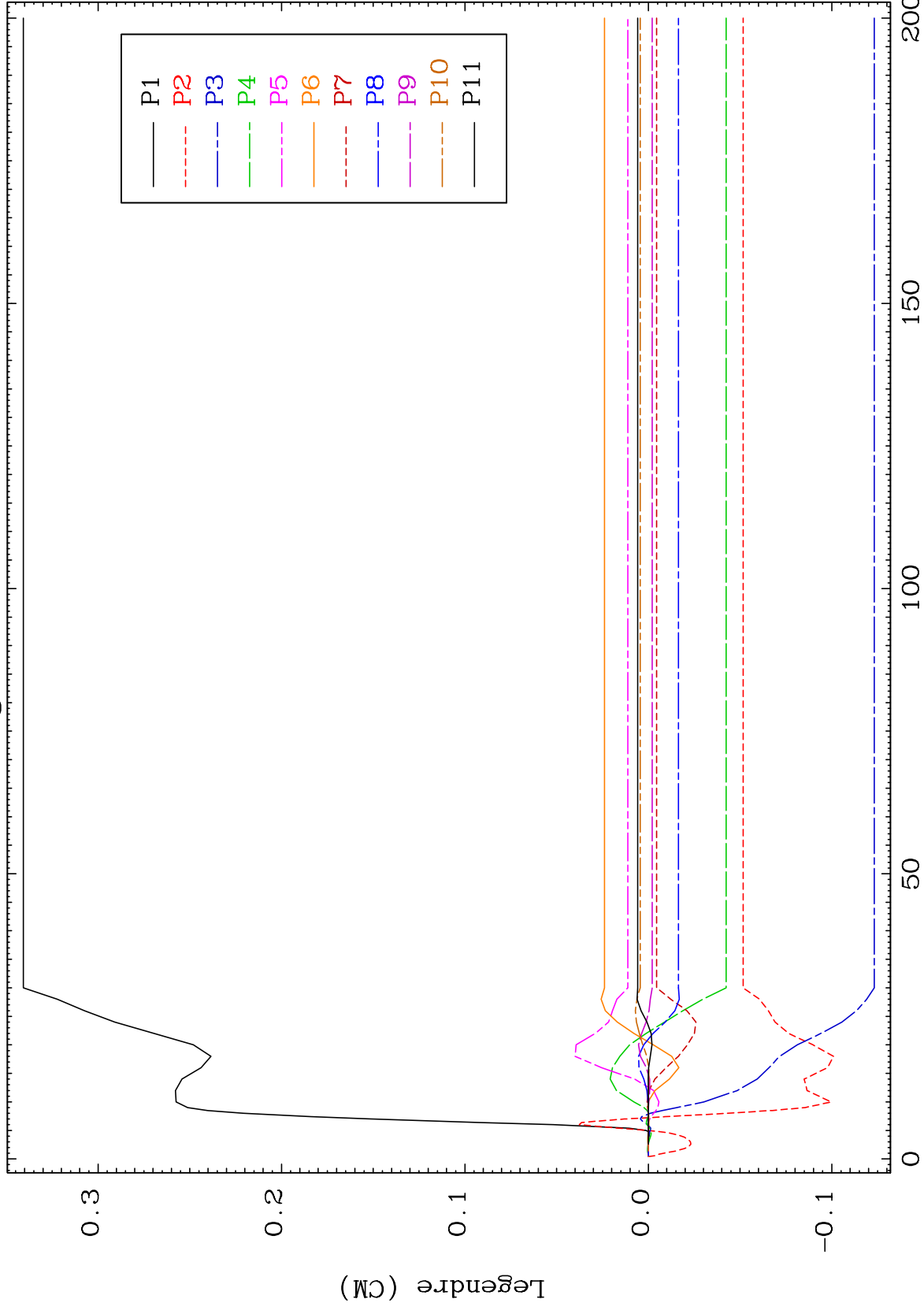
73-Ta-177



MAT 7316

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

73-Ta-177



68

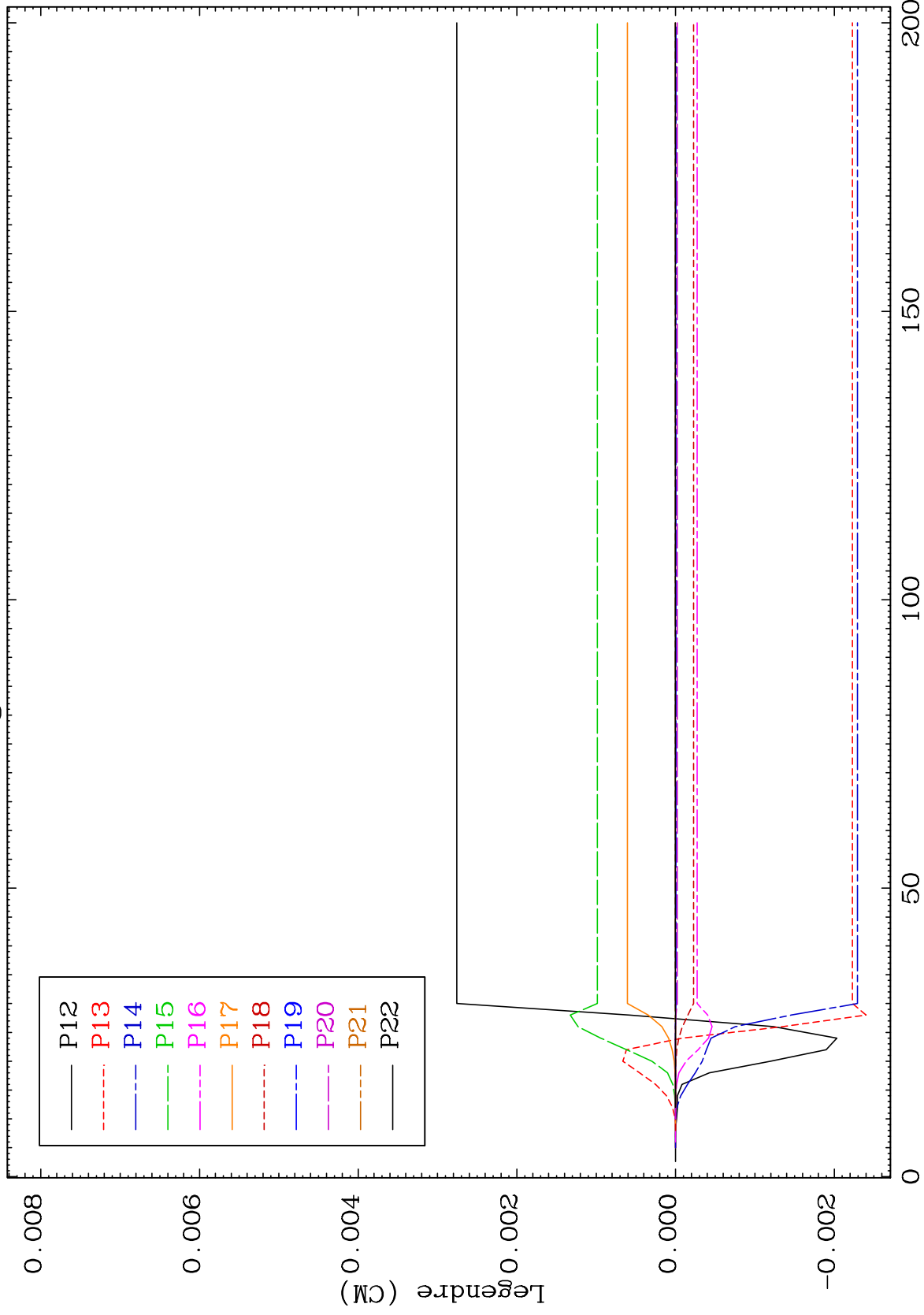
Incident Energy (MeV)

73-Ta-177

MAT 7316

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

73-Ta-177



69

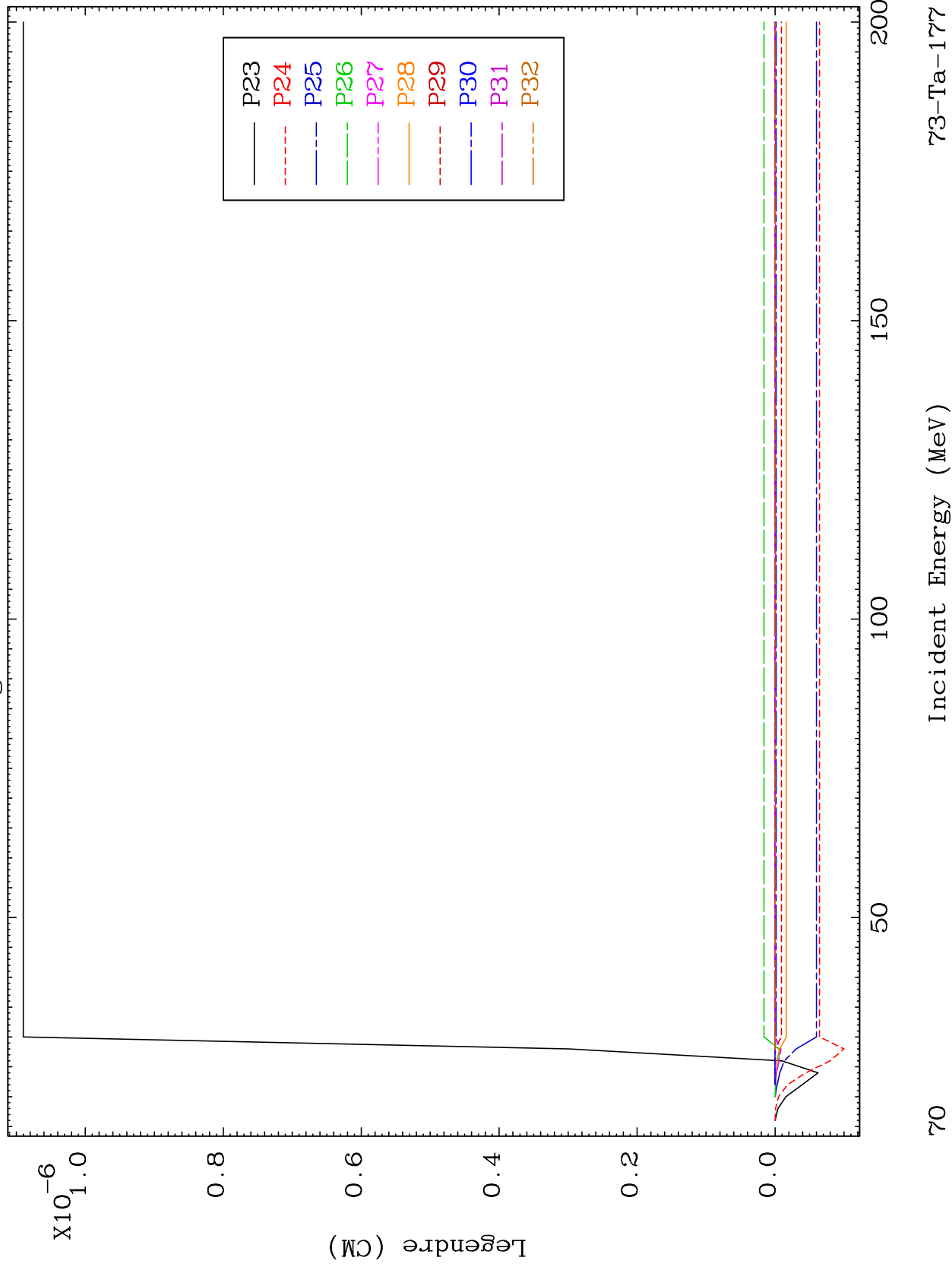
Incident Energy (MeV)

73-Ta-177

MAT 7316

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

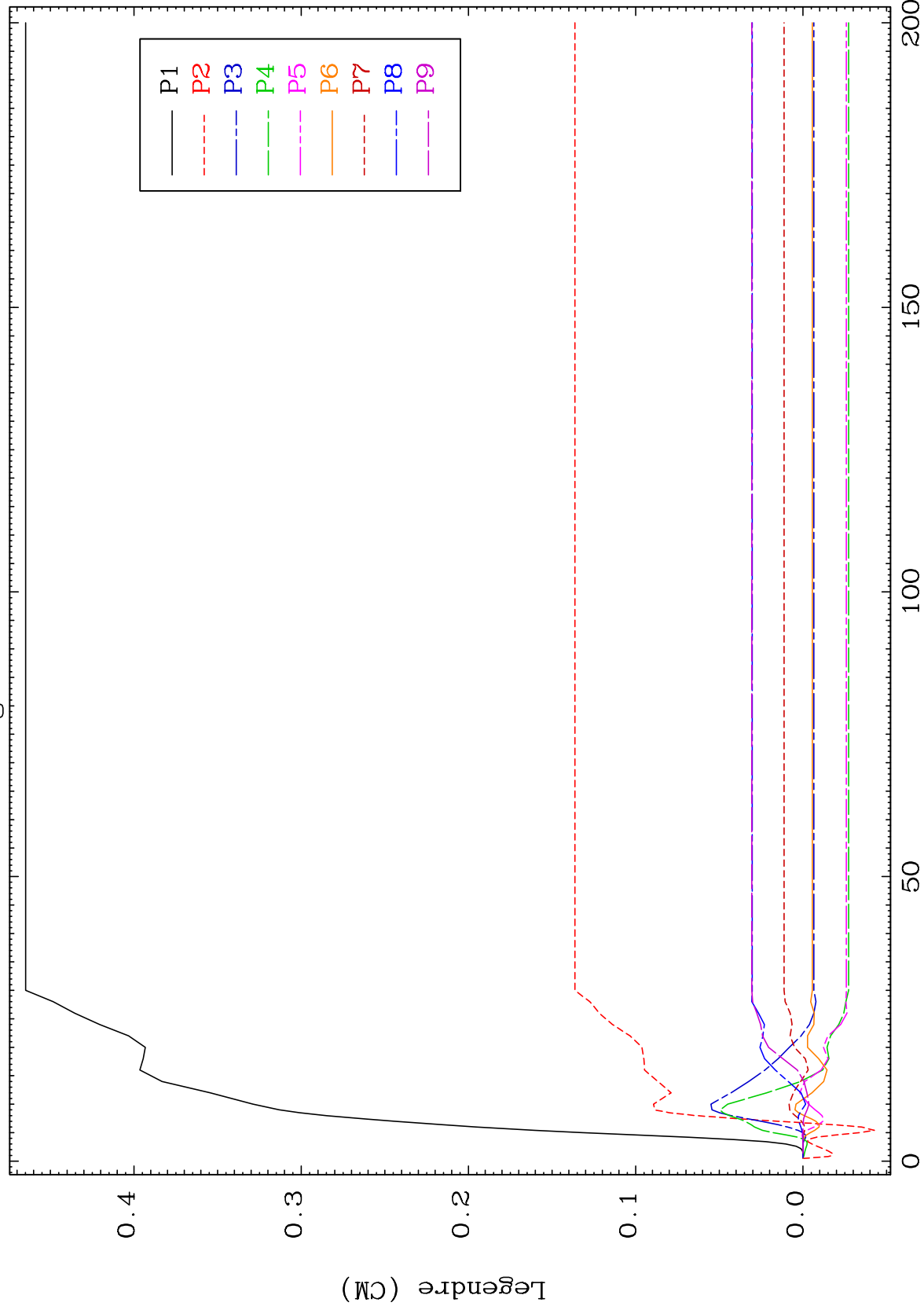
73-Ta-177



MAT 7316

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

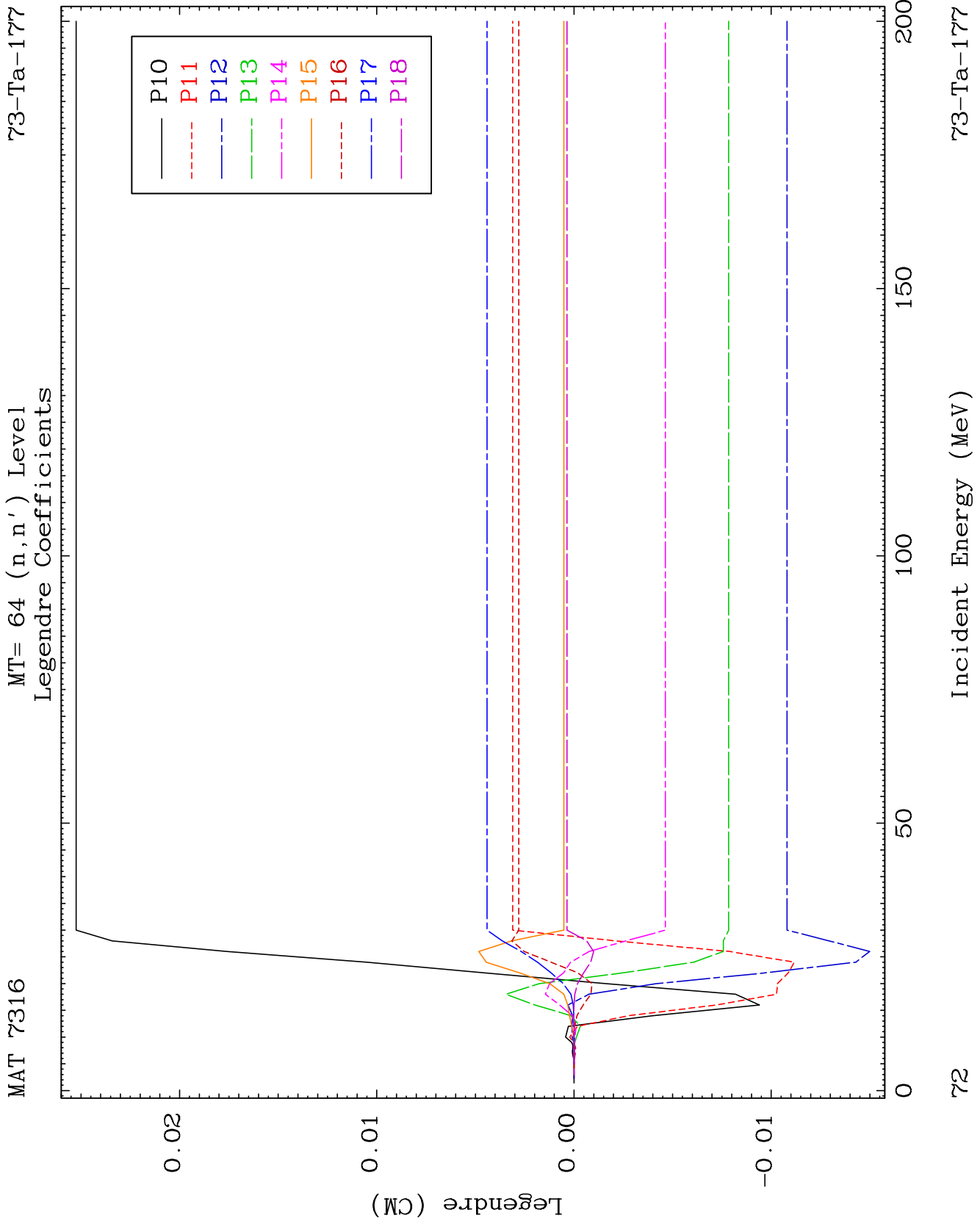
73-Ta-177



71

Incident Energy (MeV)

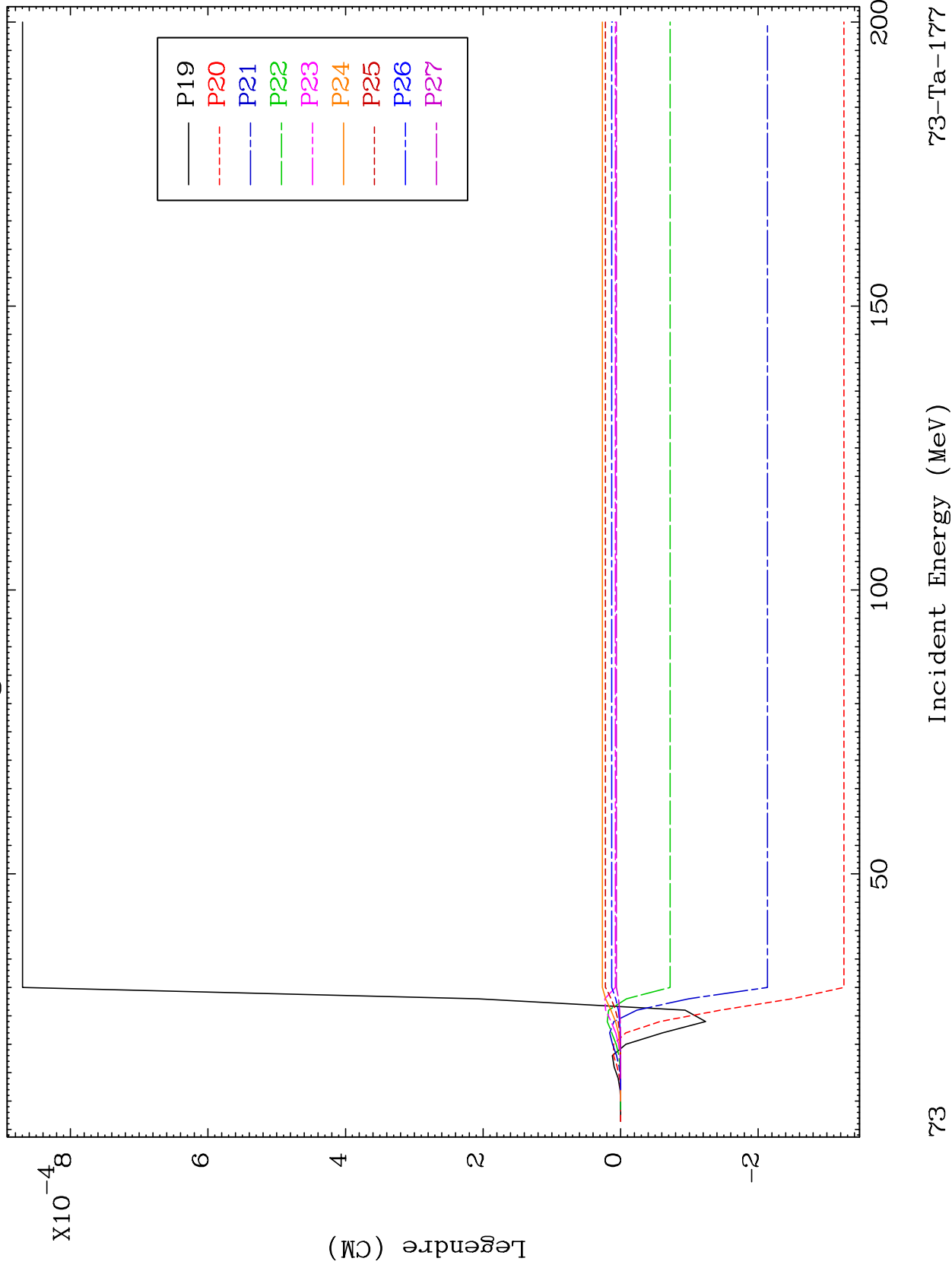
73-Ta-177



MAT 7316

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

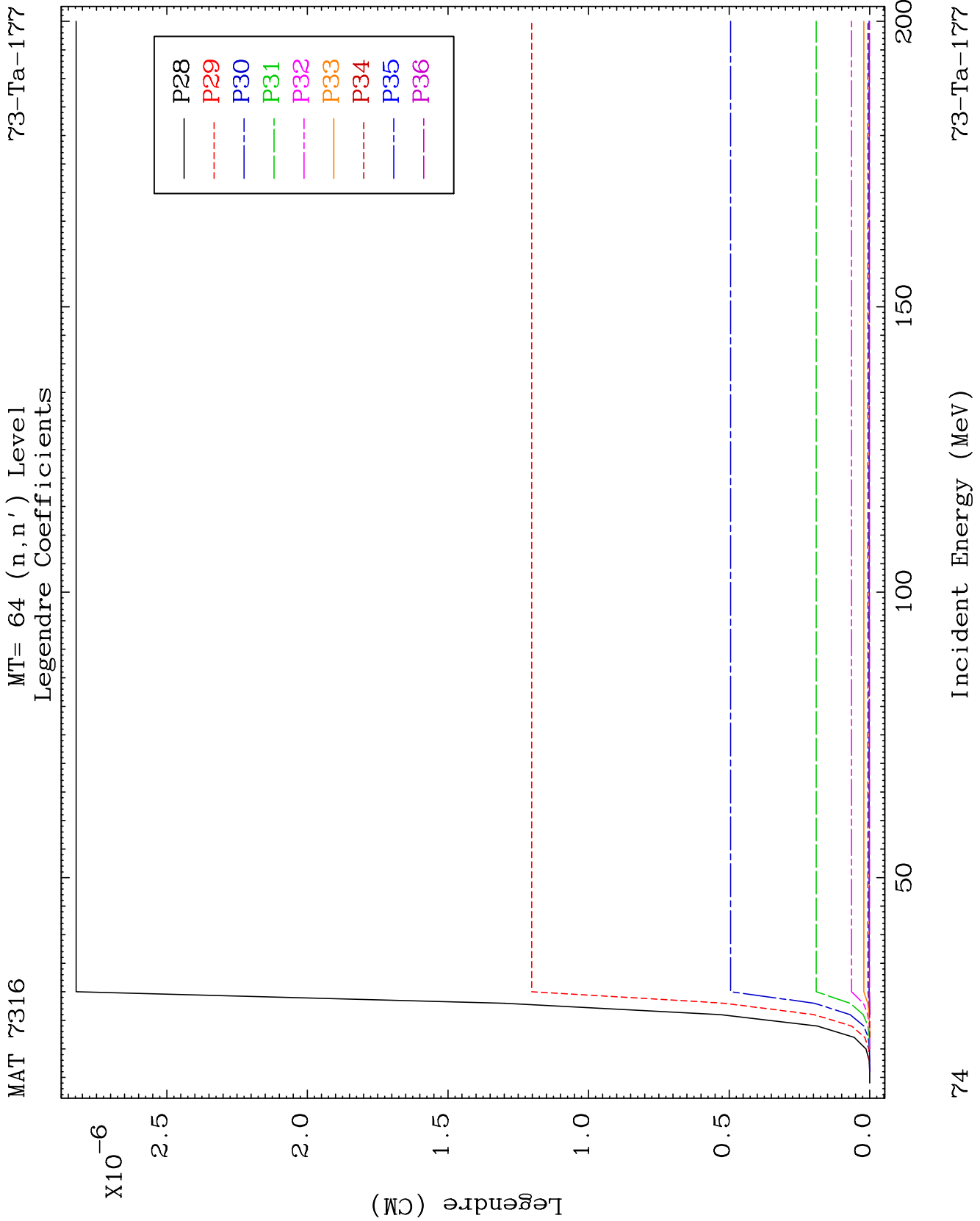
73-Ta-177

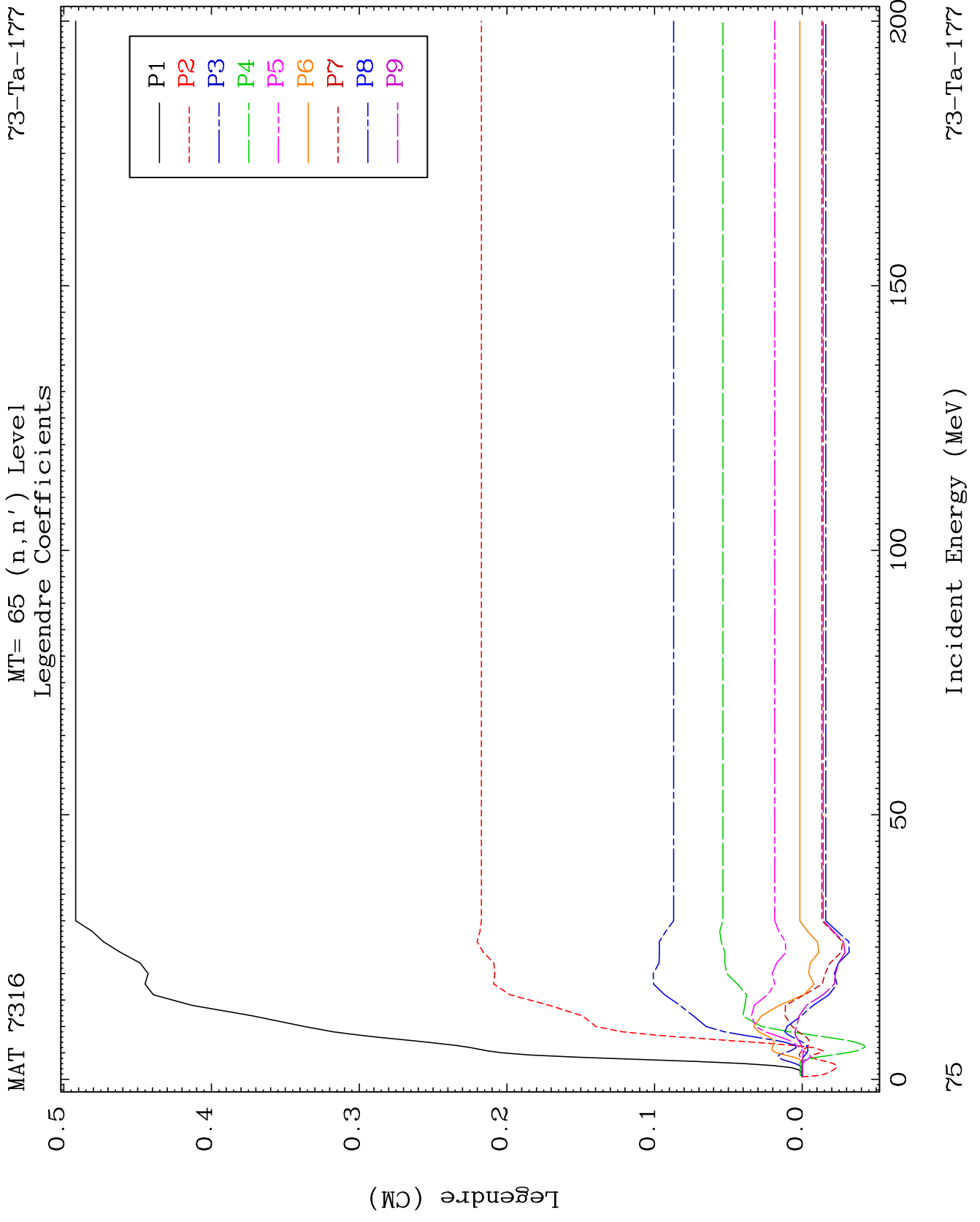


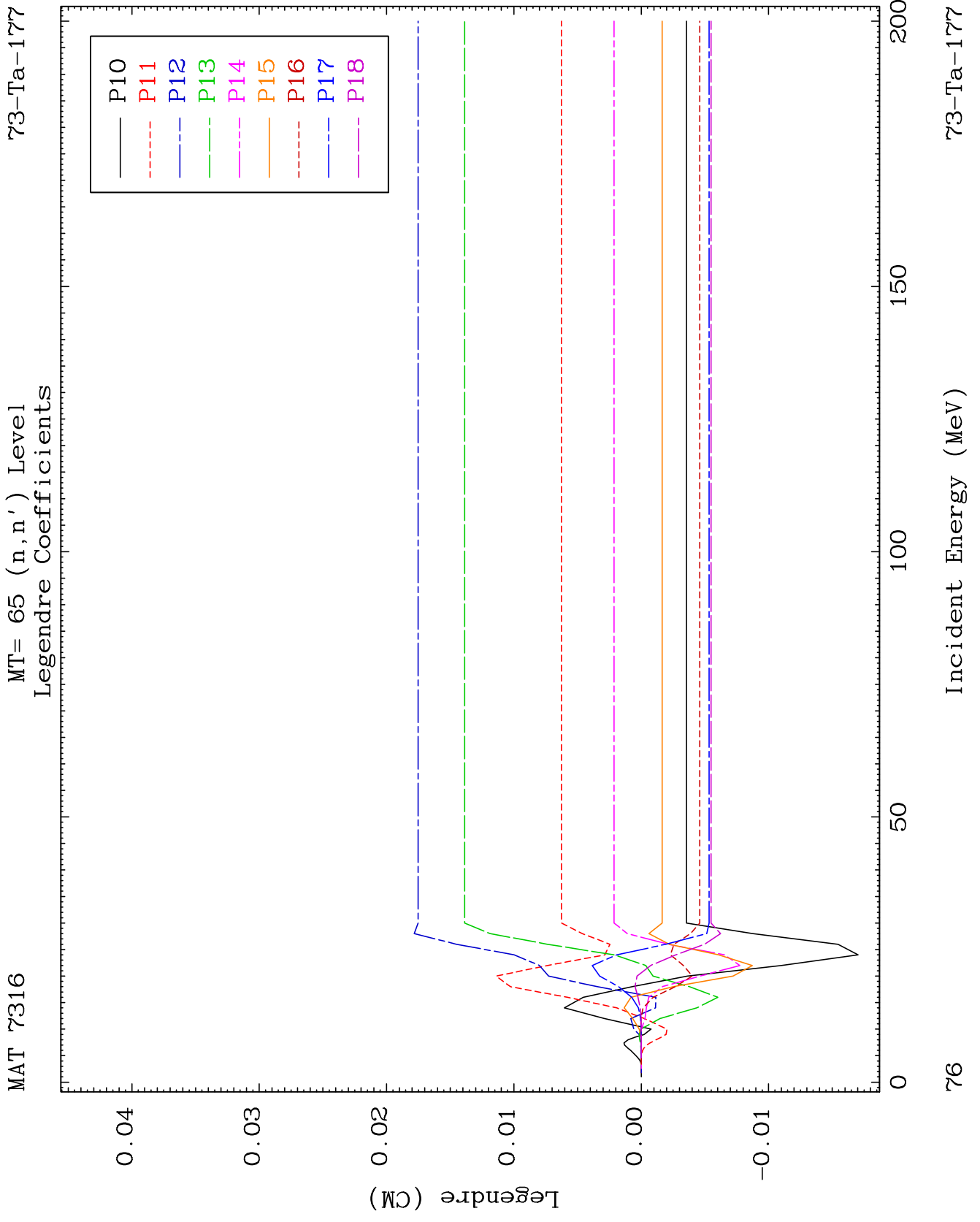
73

Incident Energy (MeV)

73-Ta-177



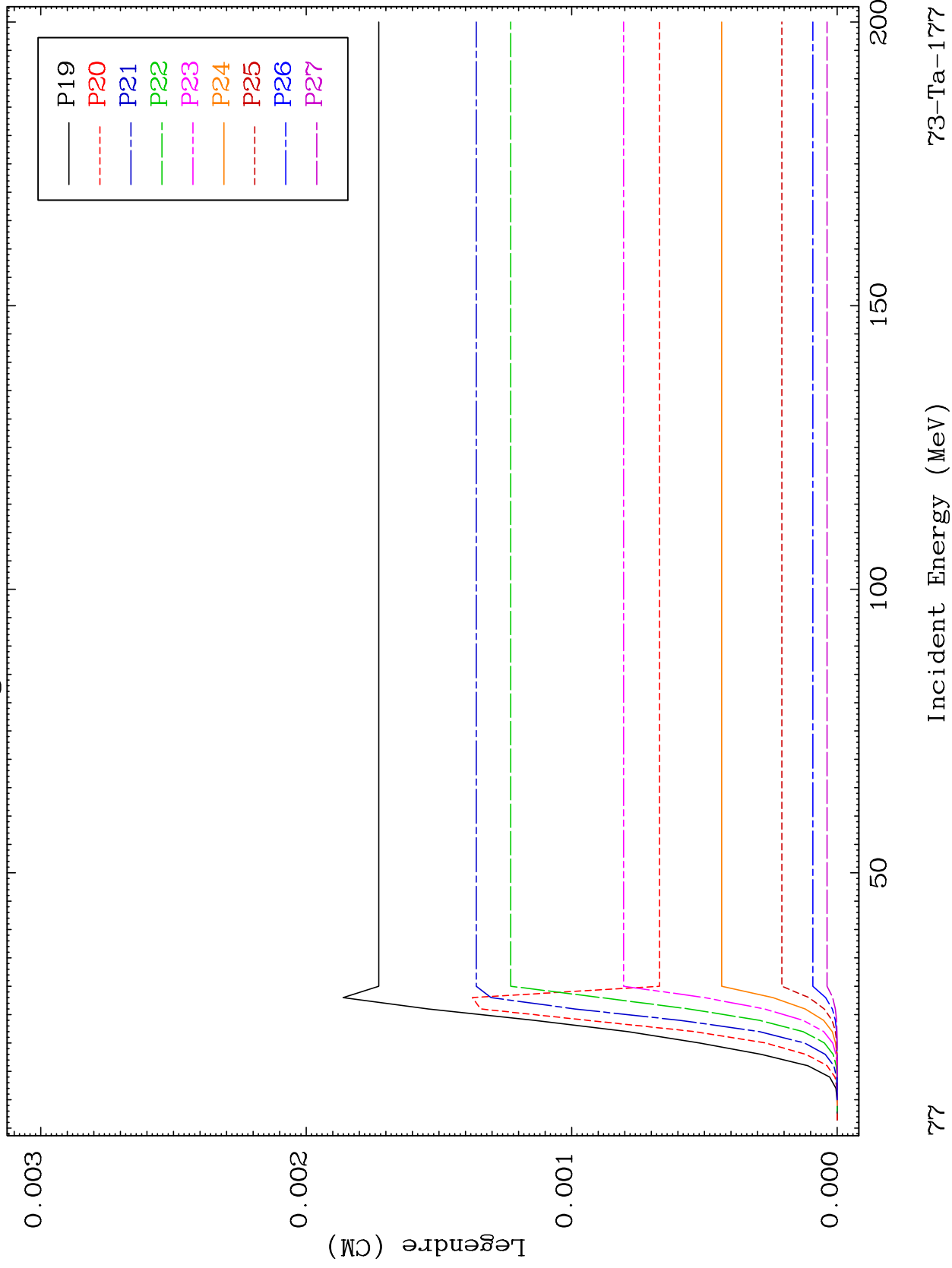


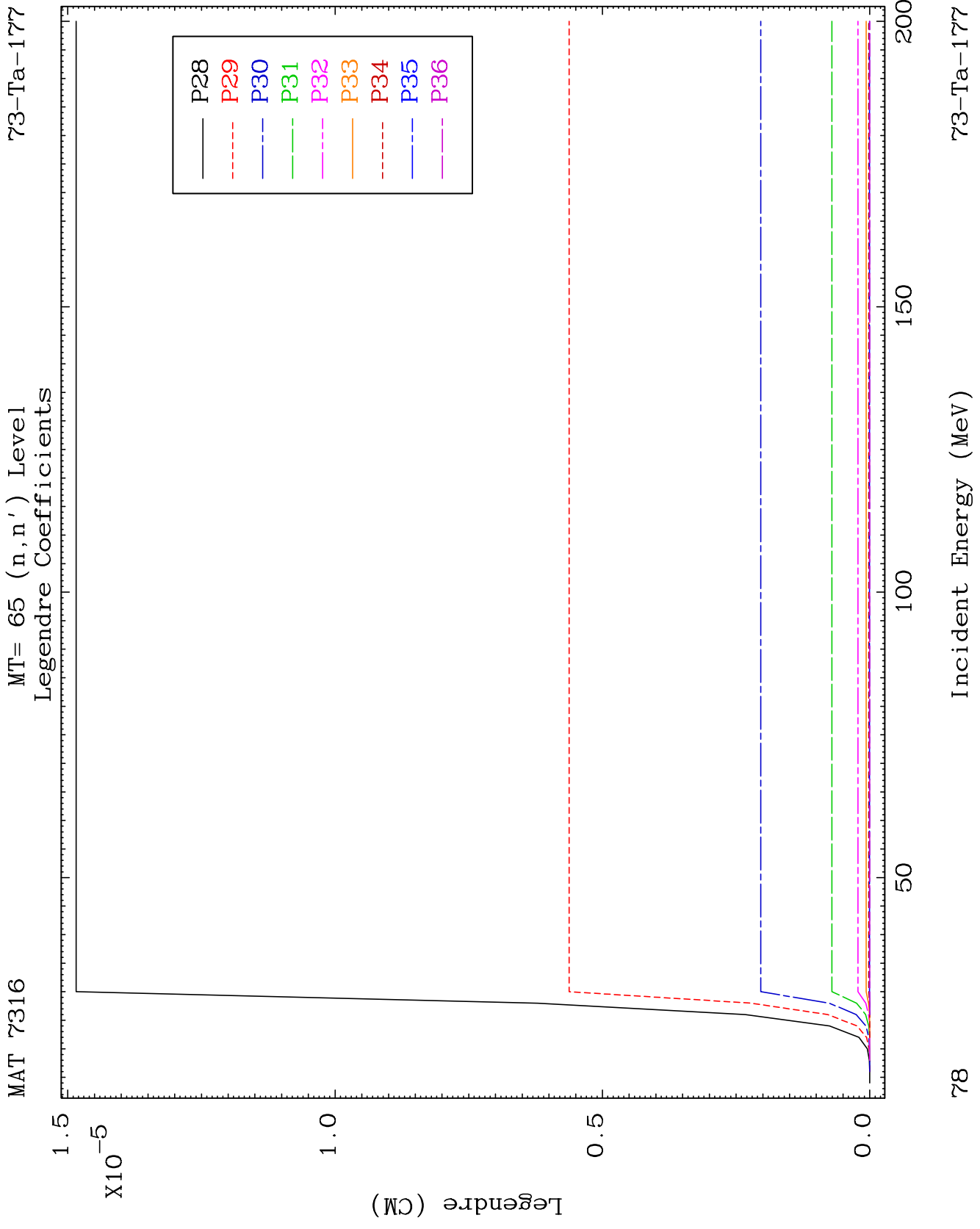


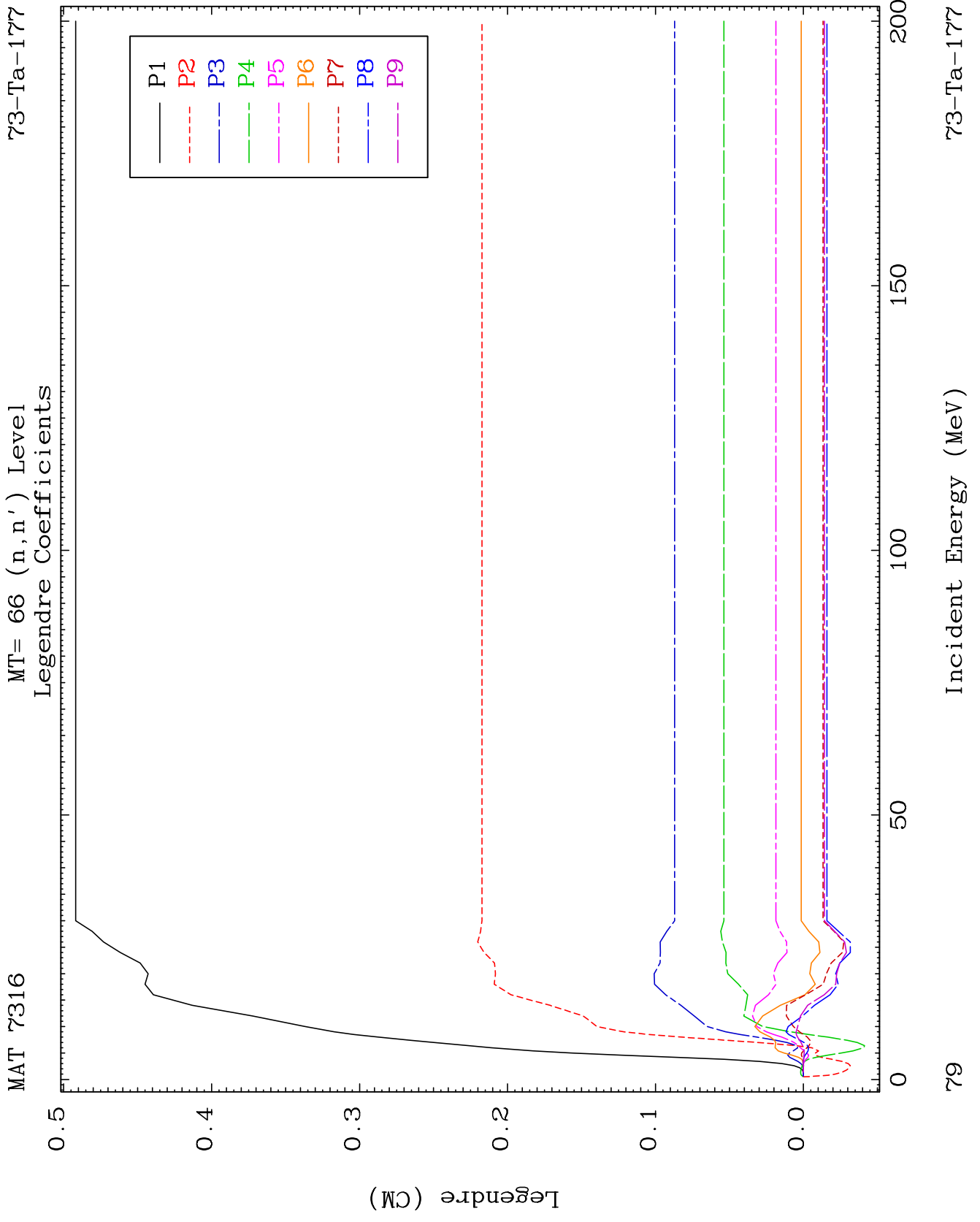
MAT 7316

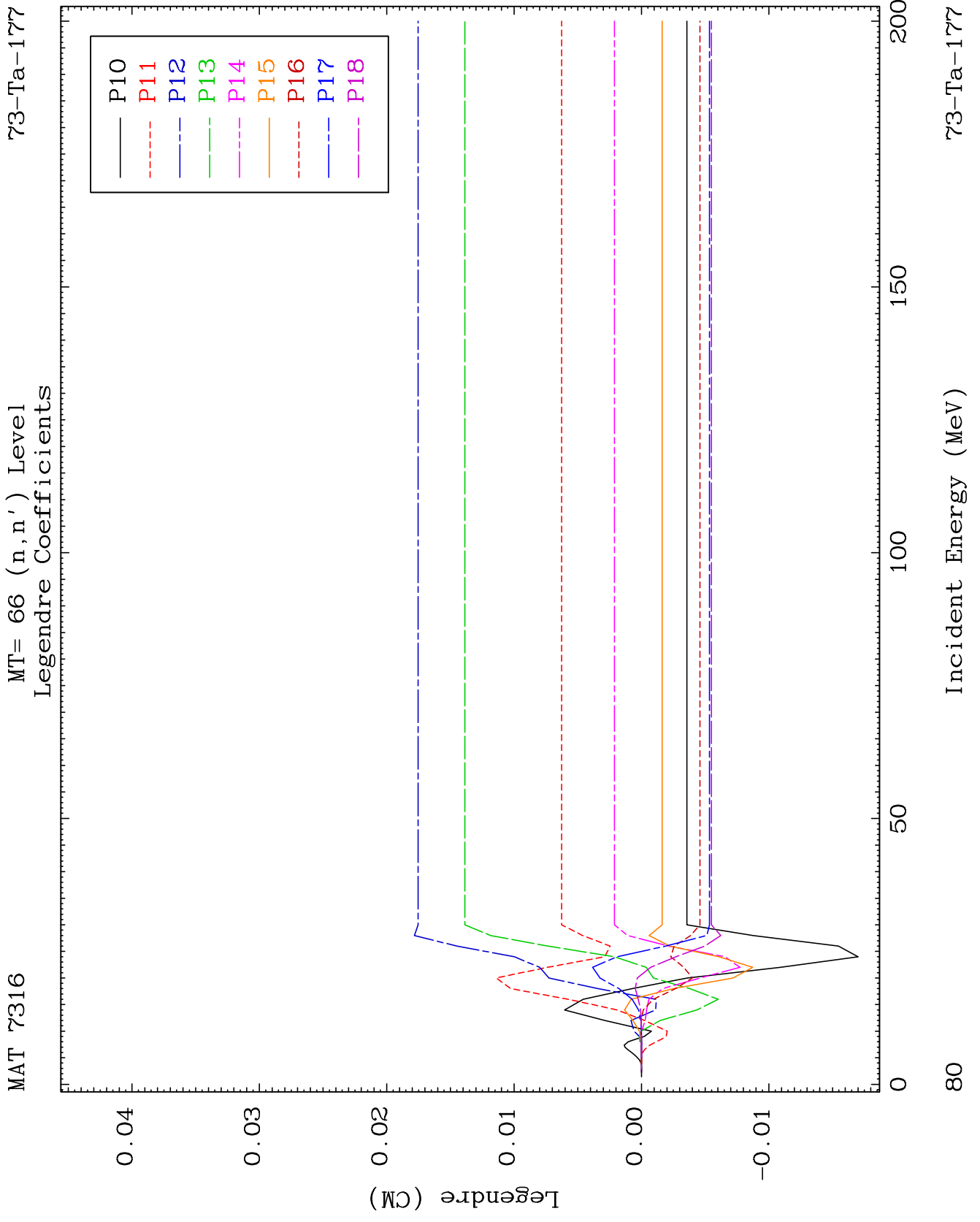
MT= 65 (n,n') Level
Legendre Coefficients

73-Ta-177





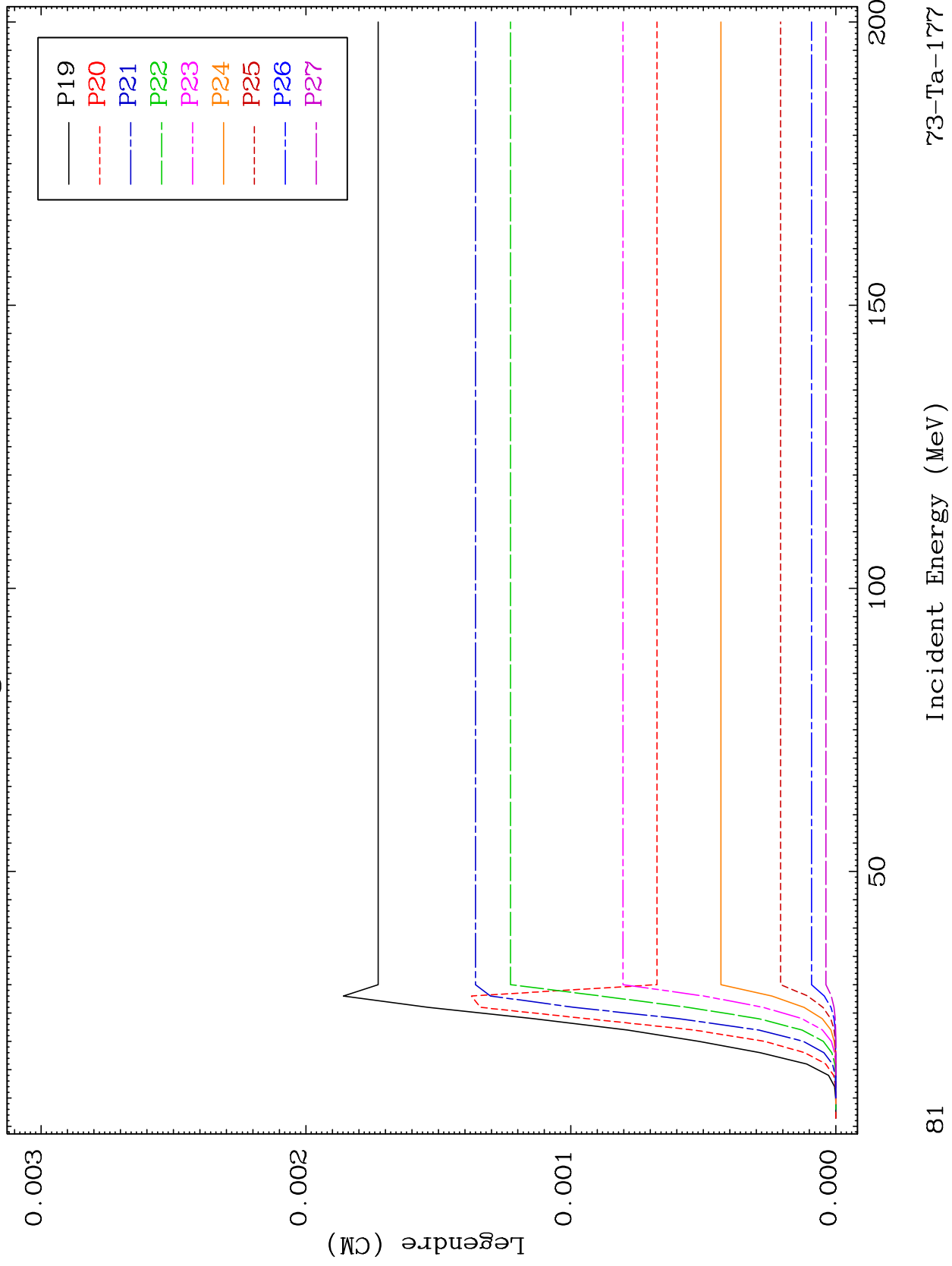




MAT 7316

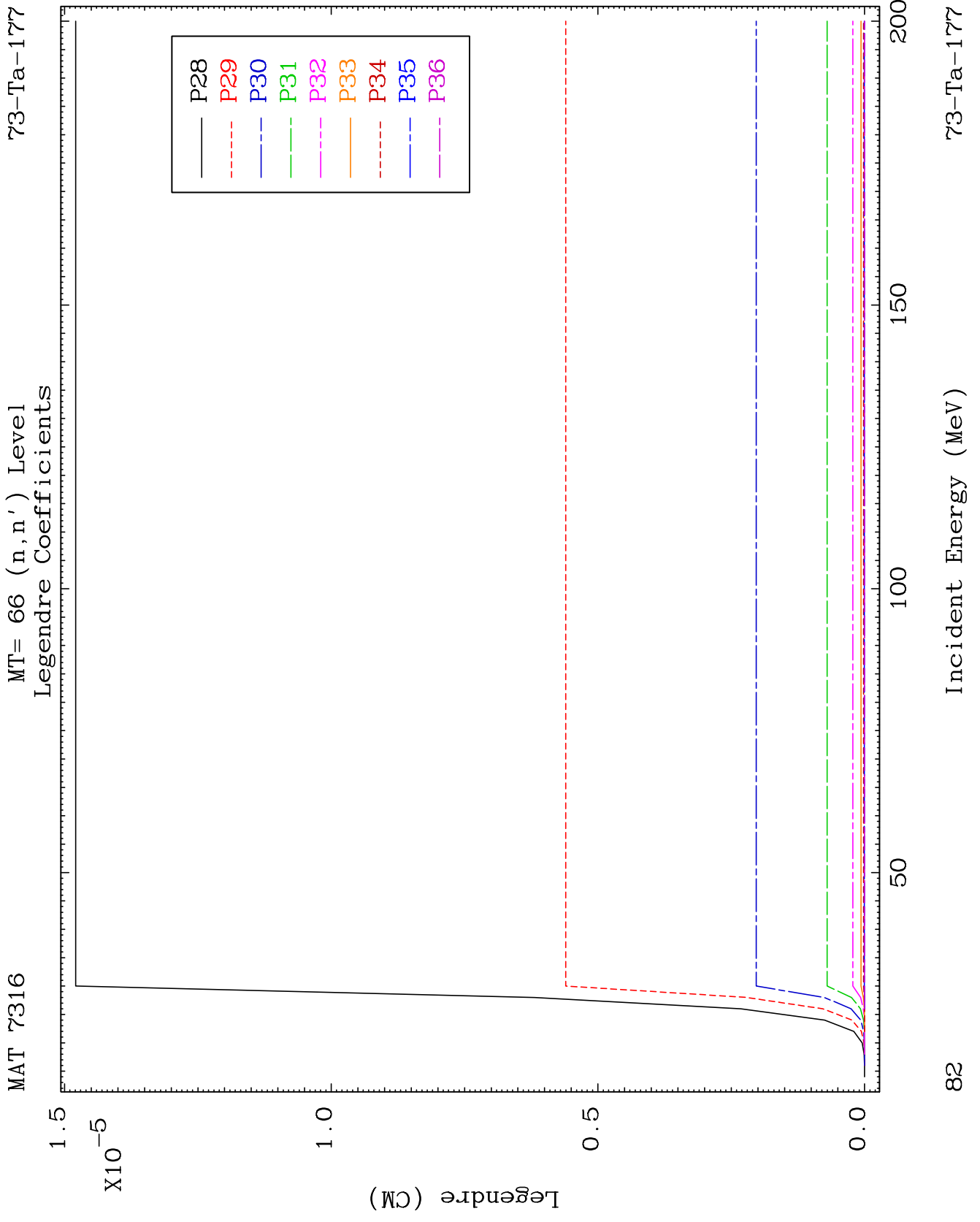
MT= 66 (n,n') Level
Legendre Coefficients

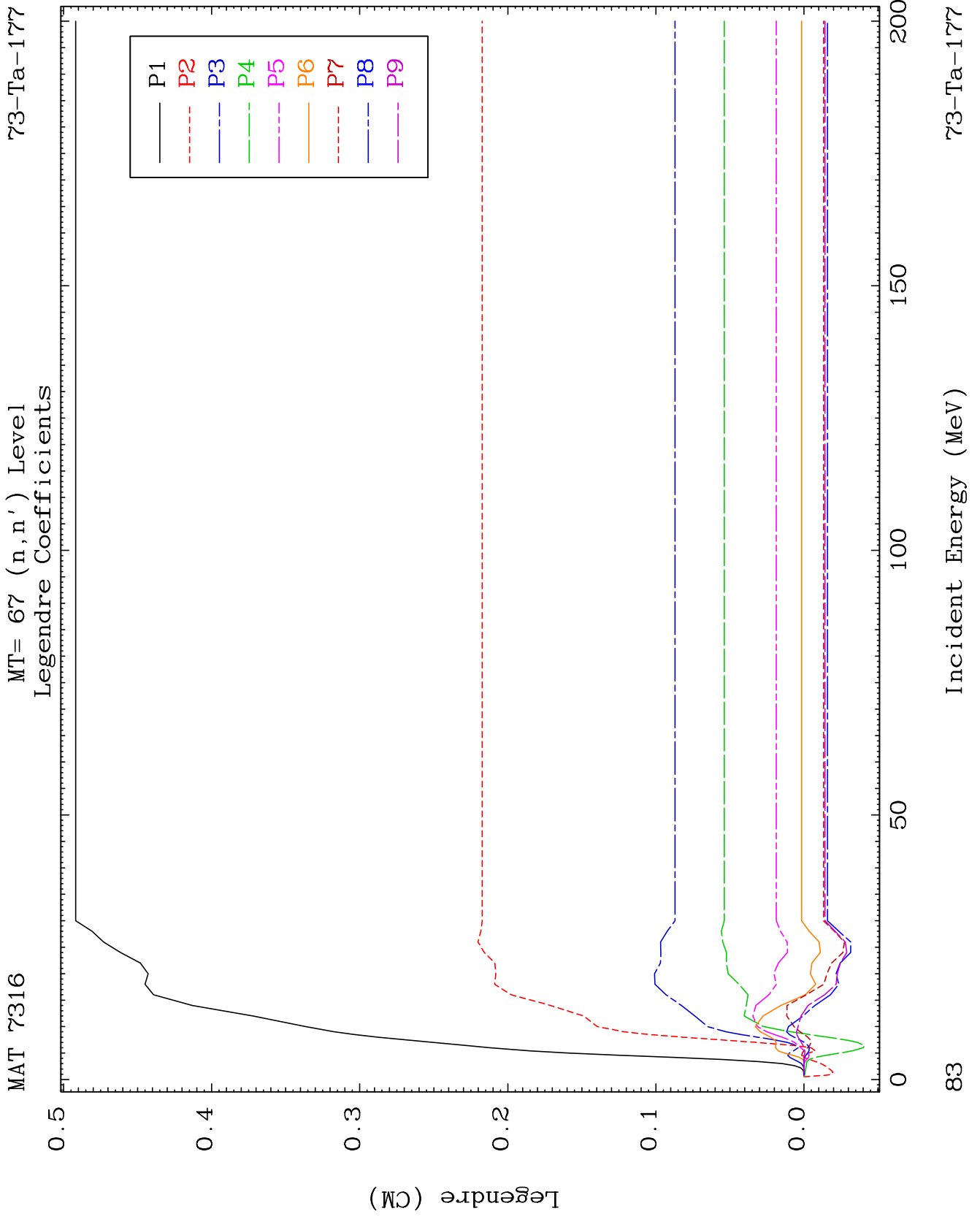
73-Ta-177

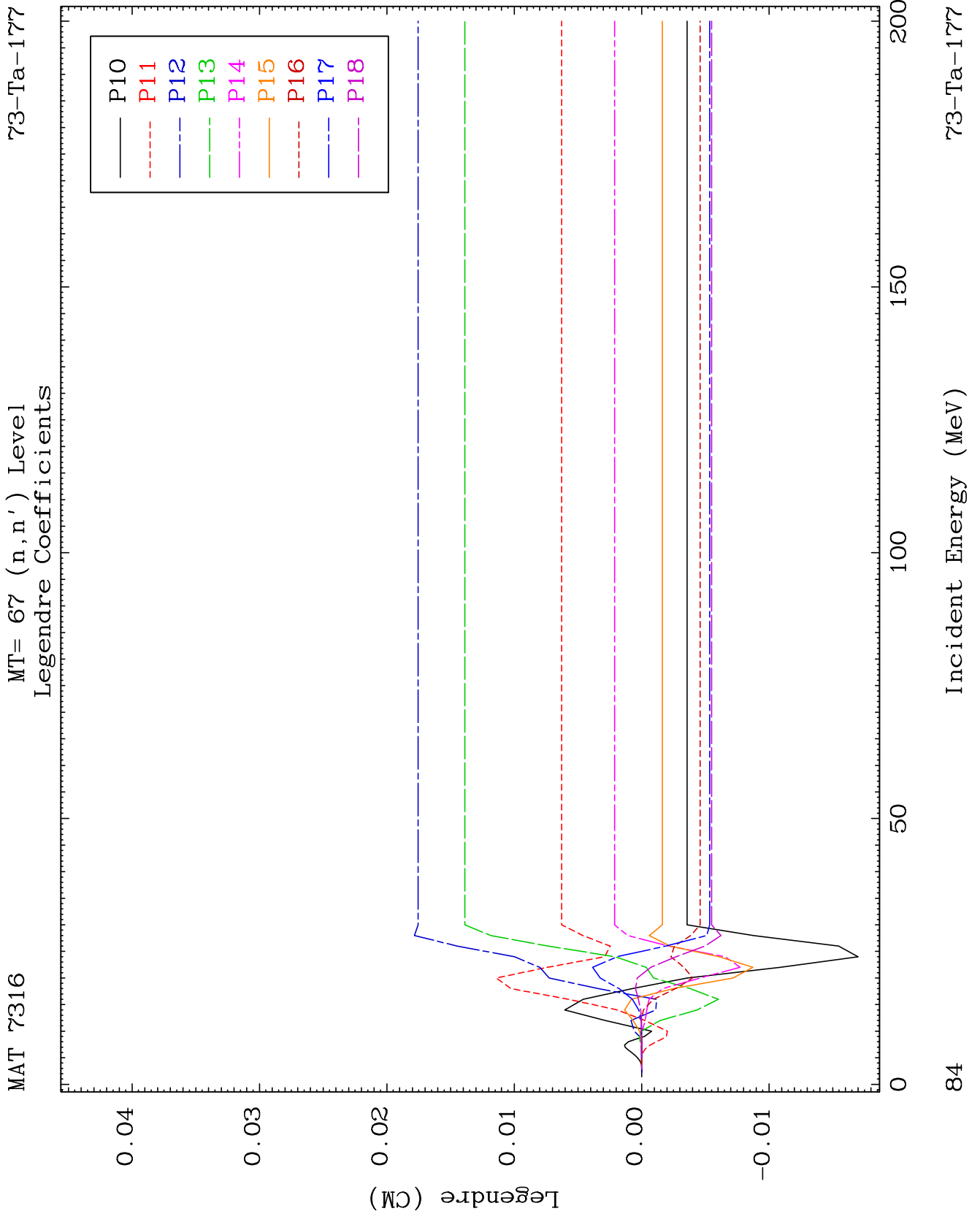


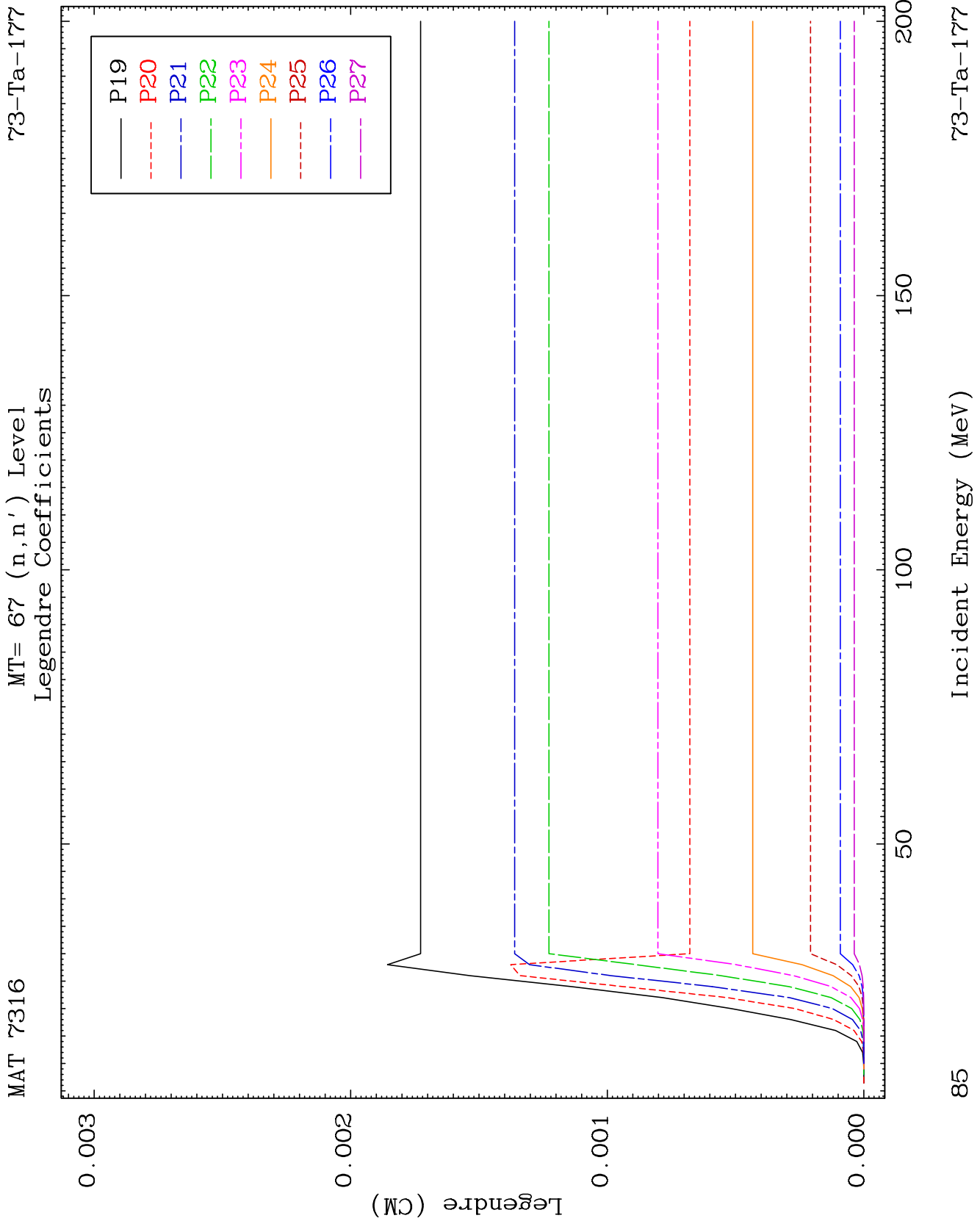
81

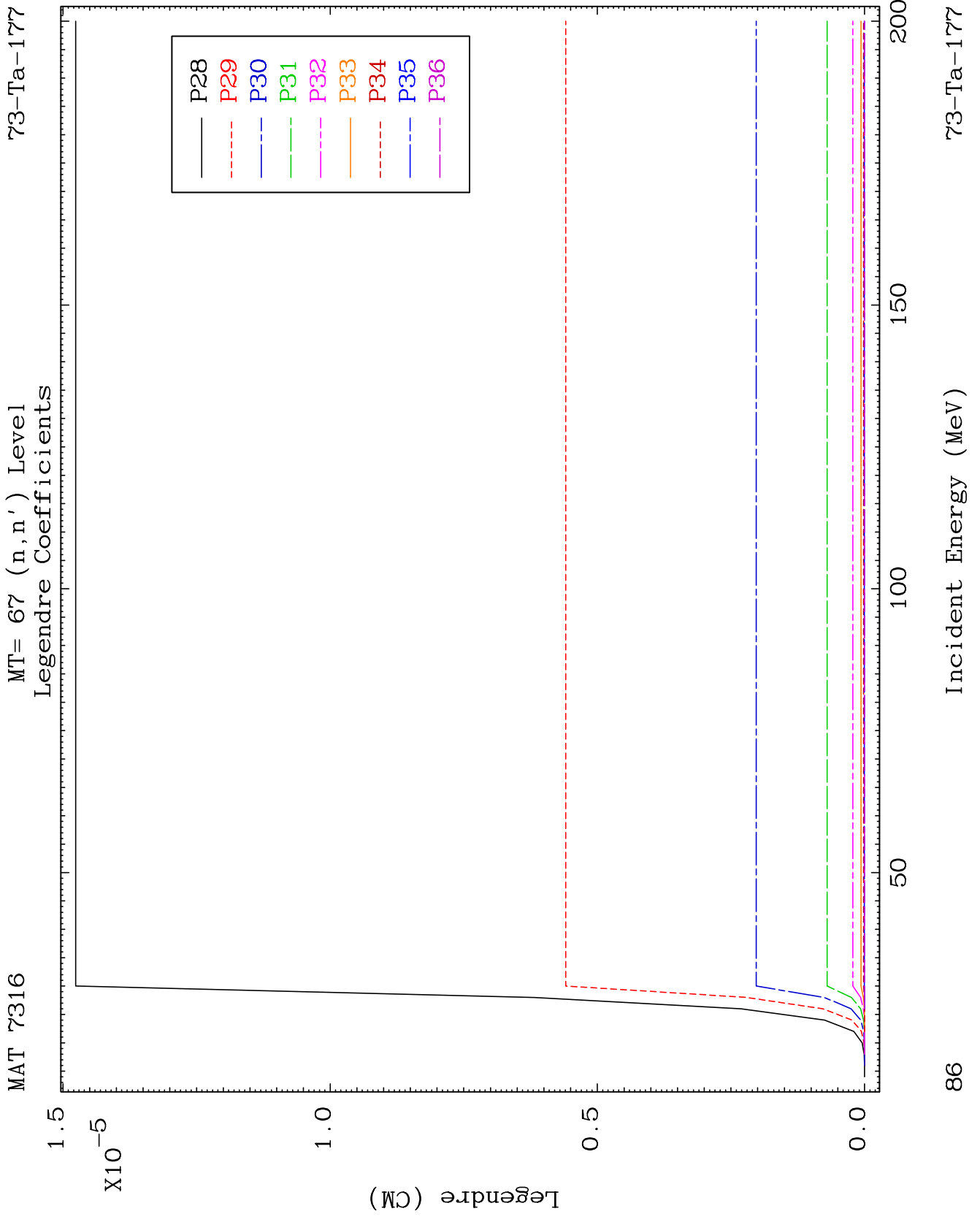
73-Ta-177

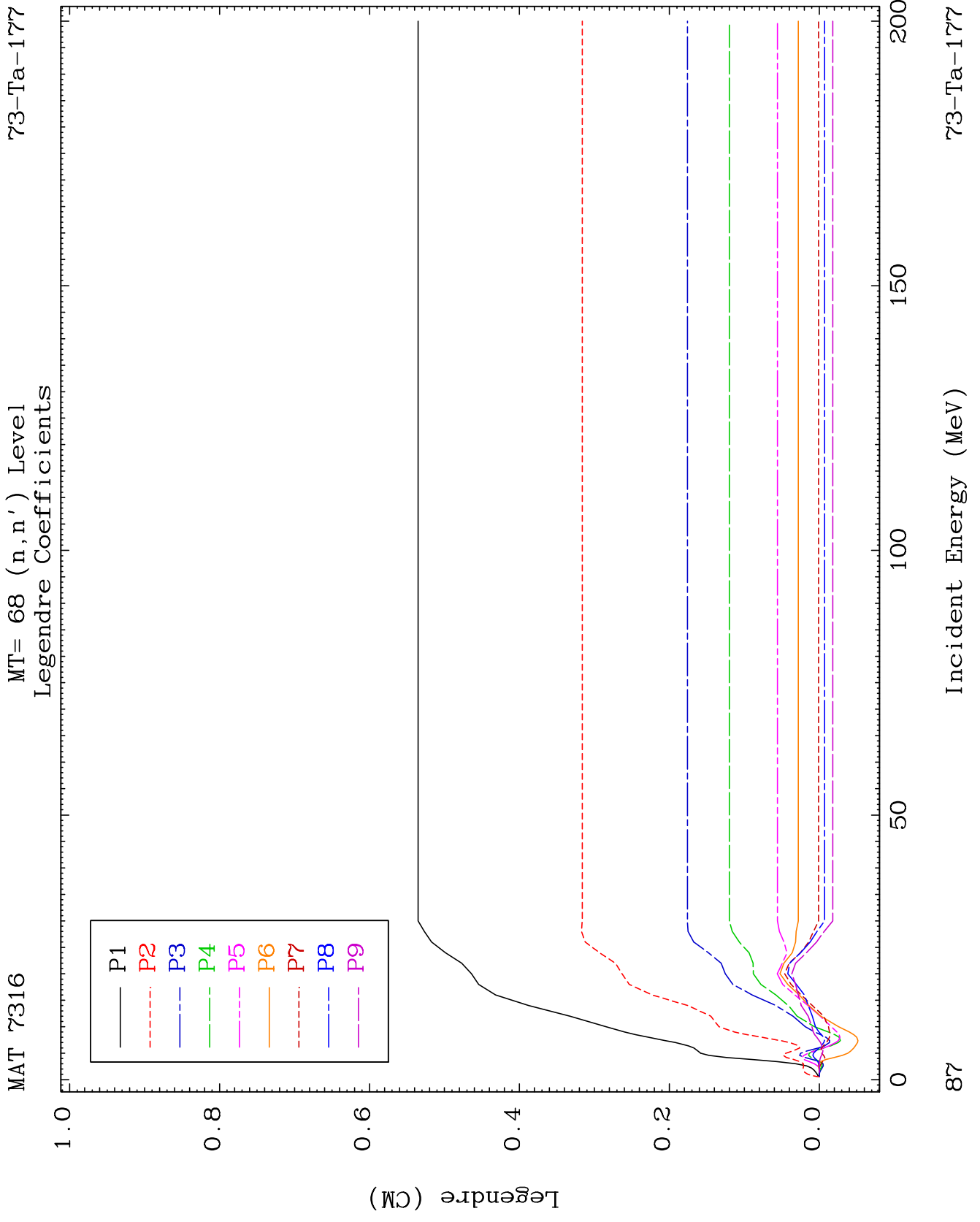


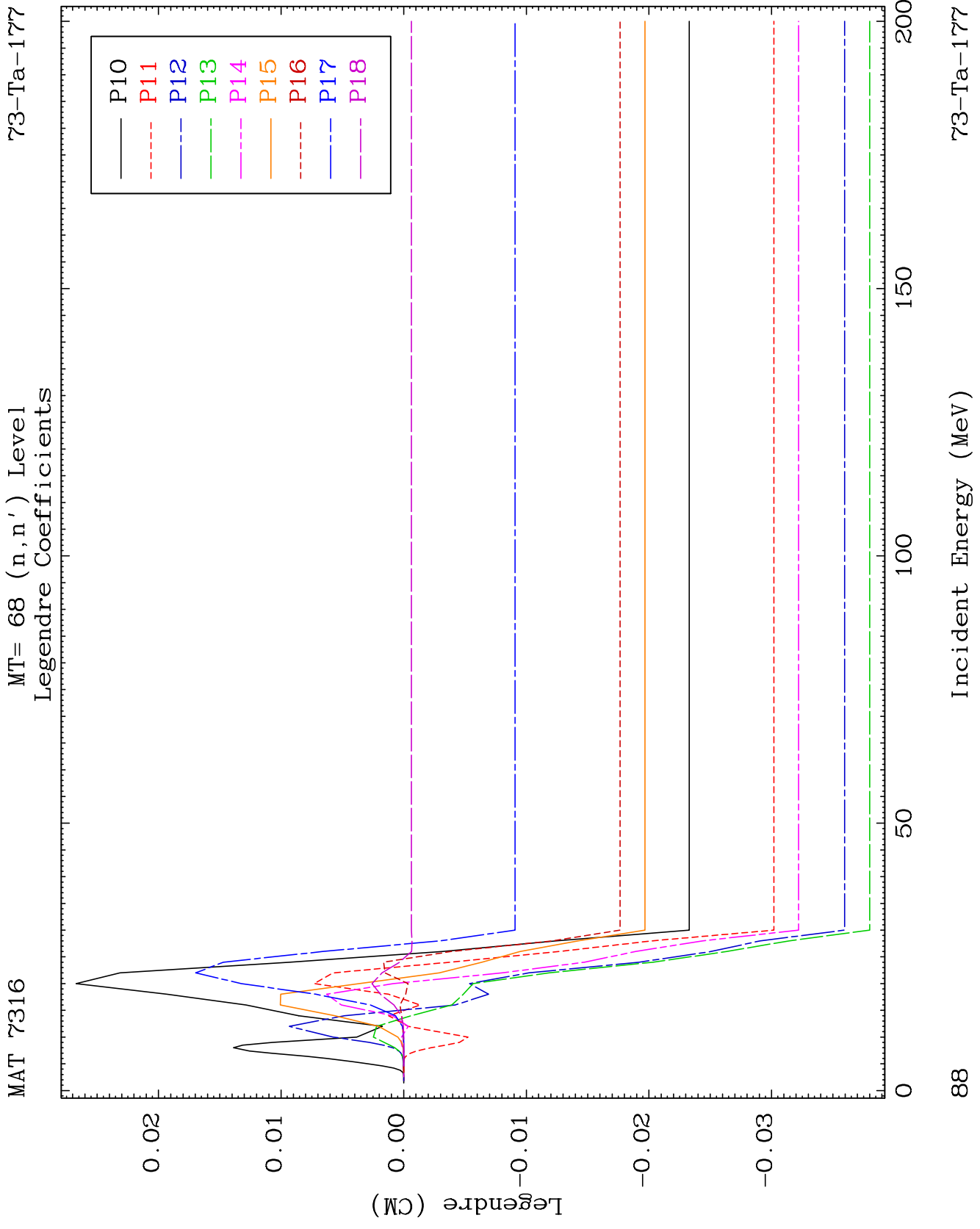


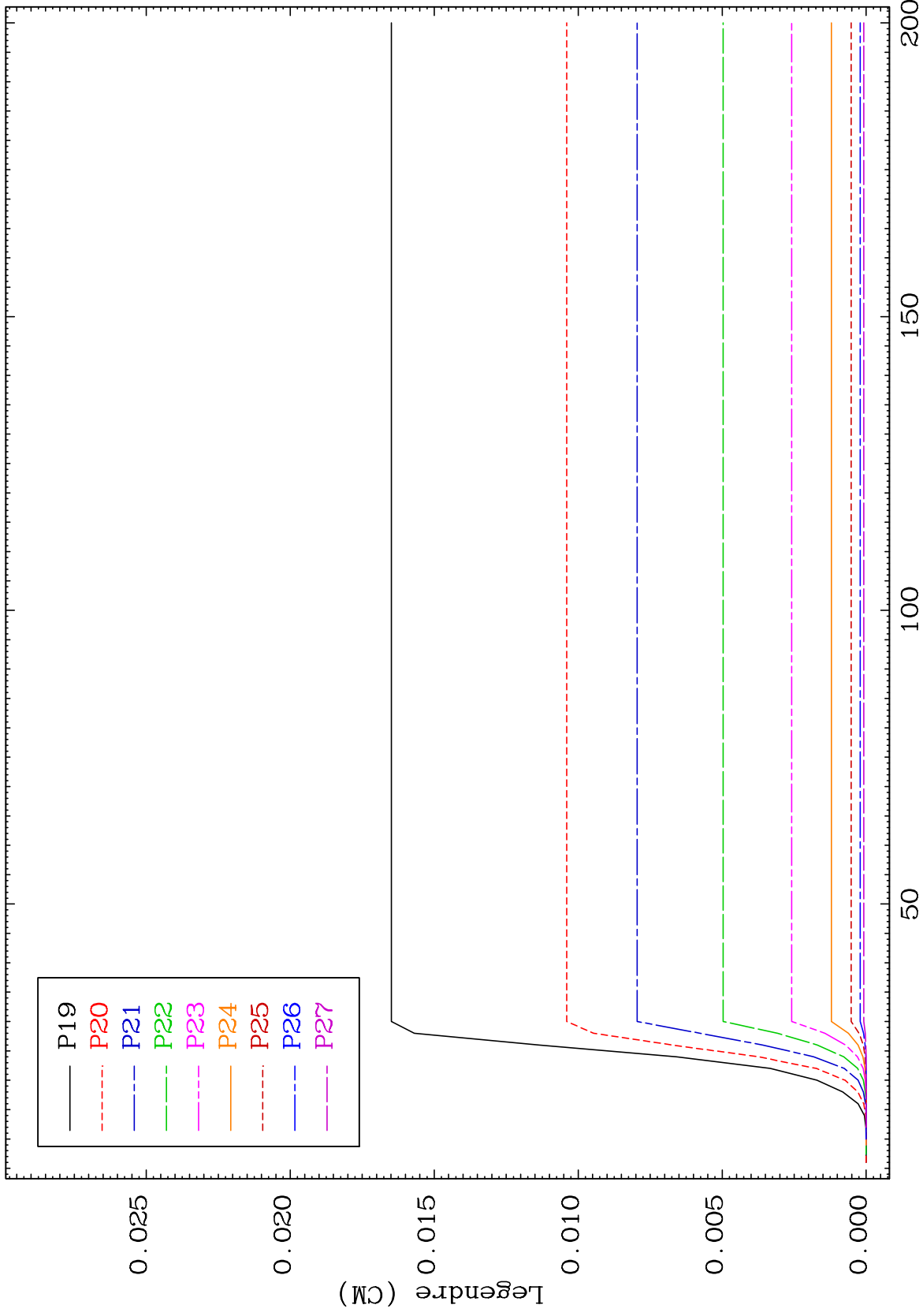


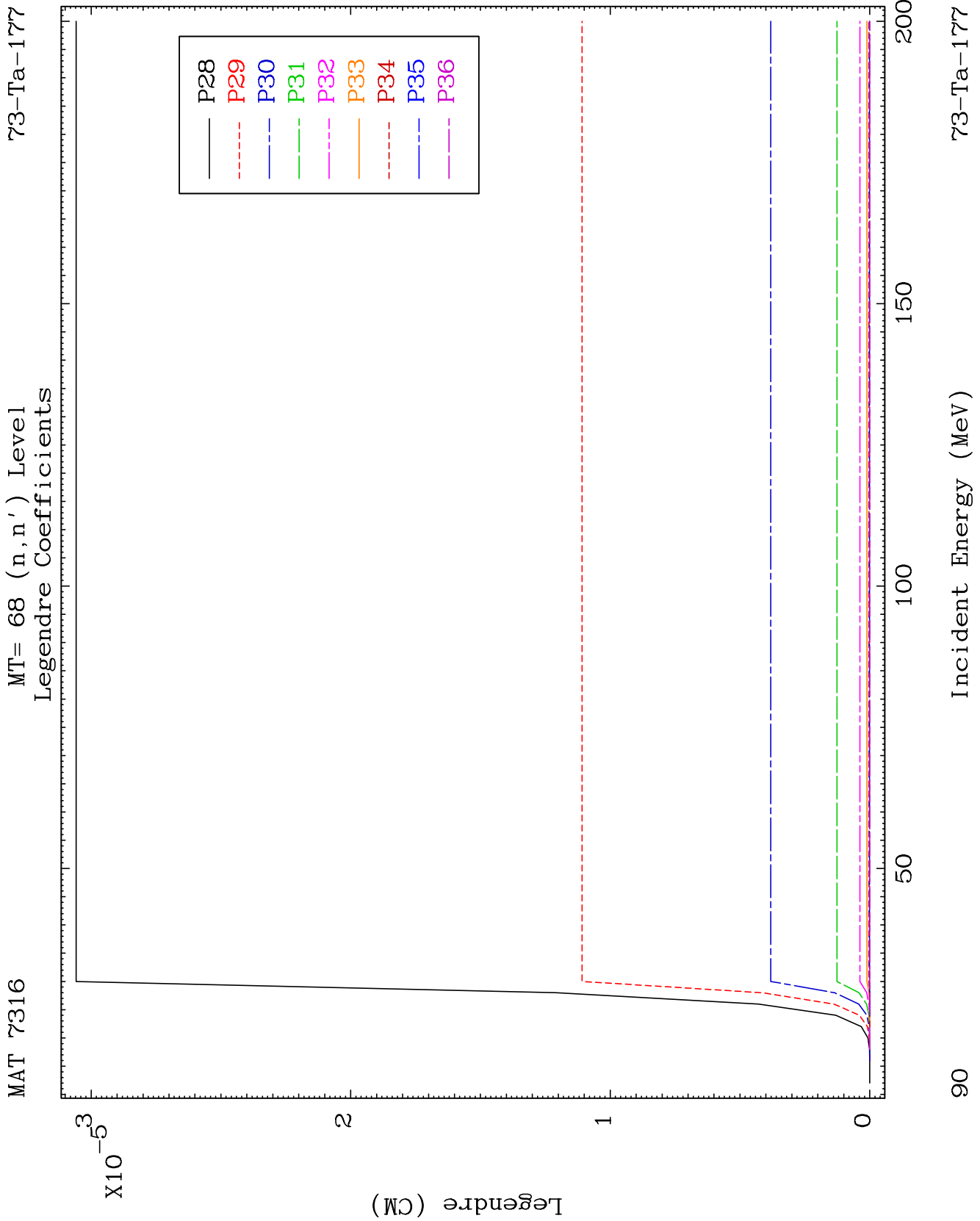


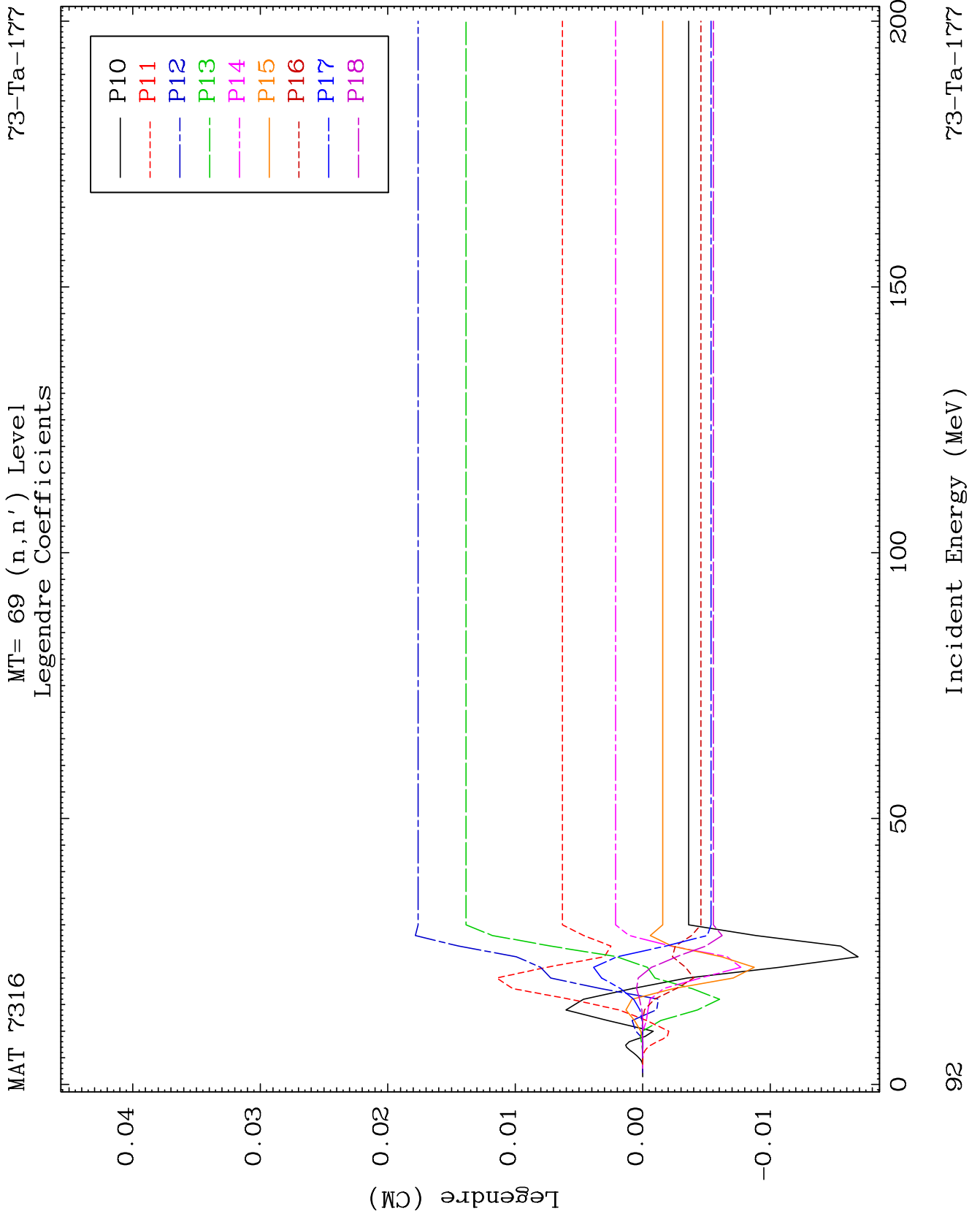








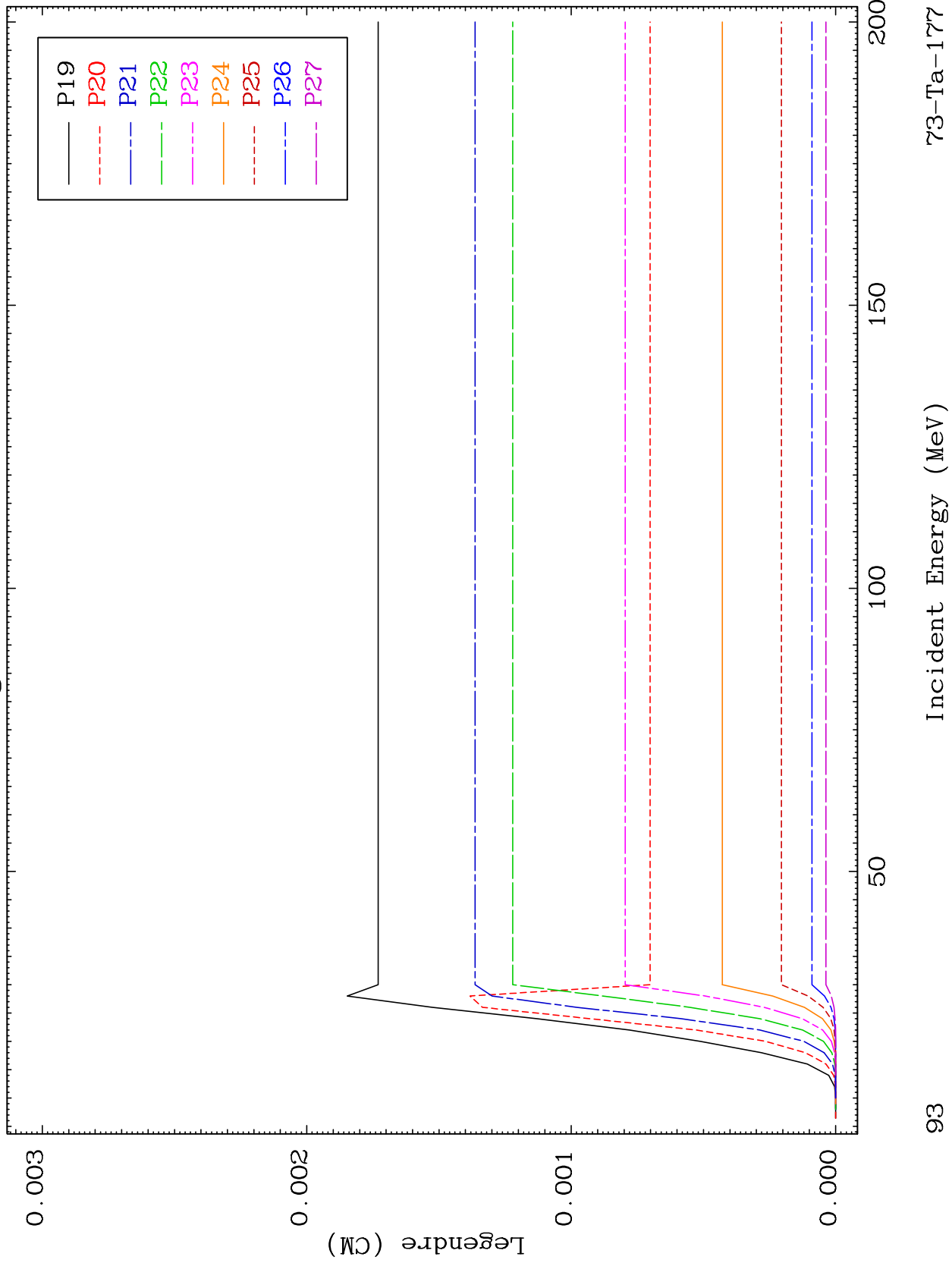




MAT 7316

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

73-Ta-177



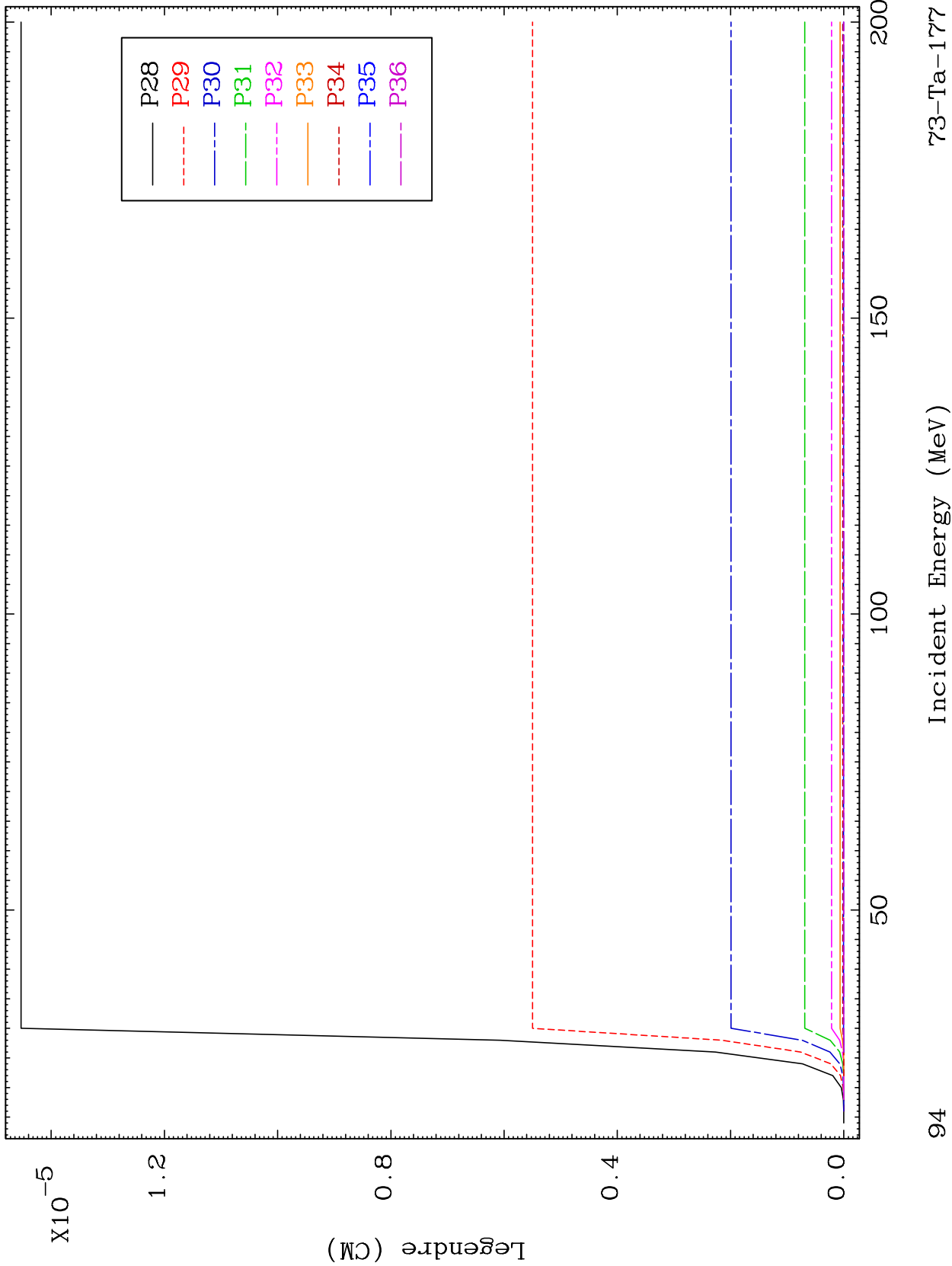
93

73-Ta-177

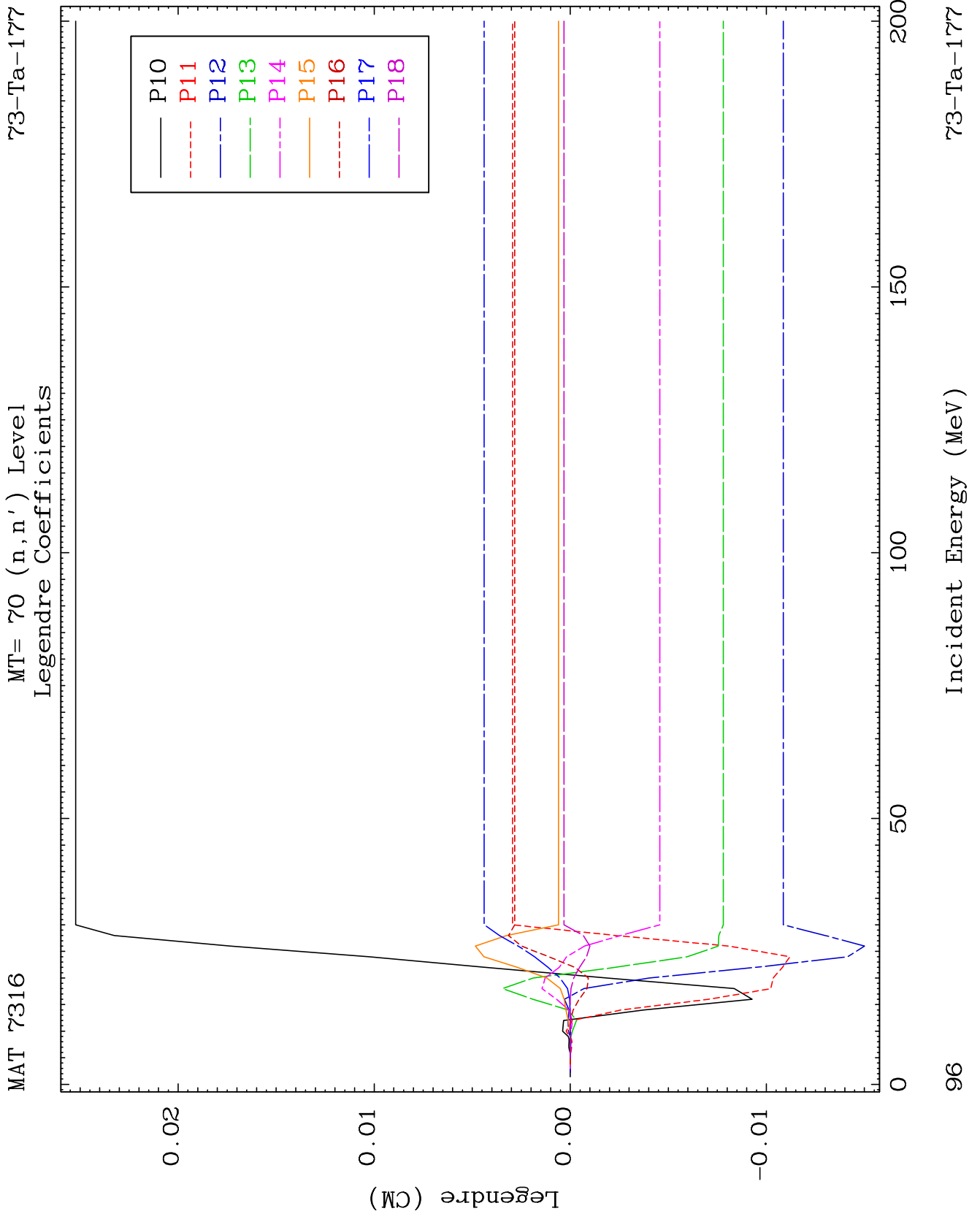
MAT 7316

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

73-Ta-177



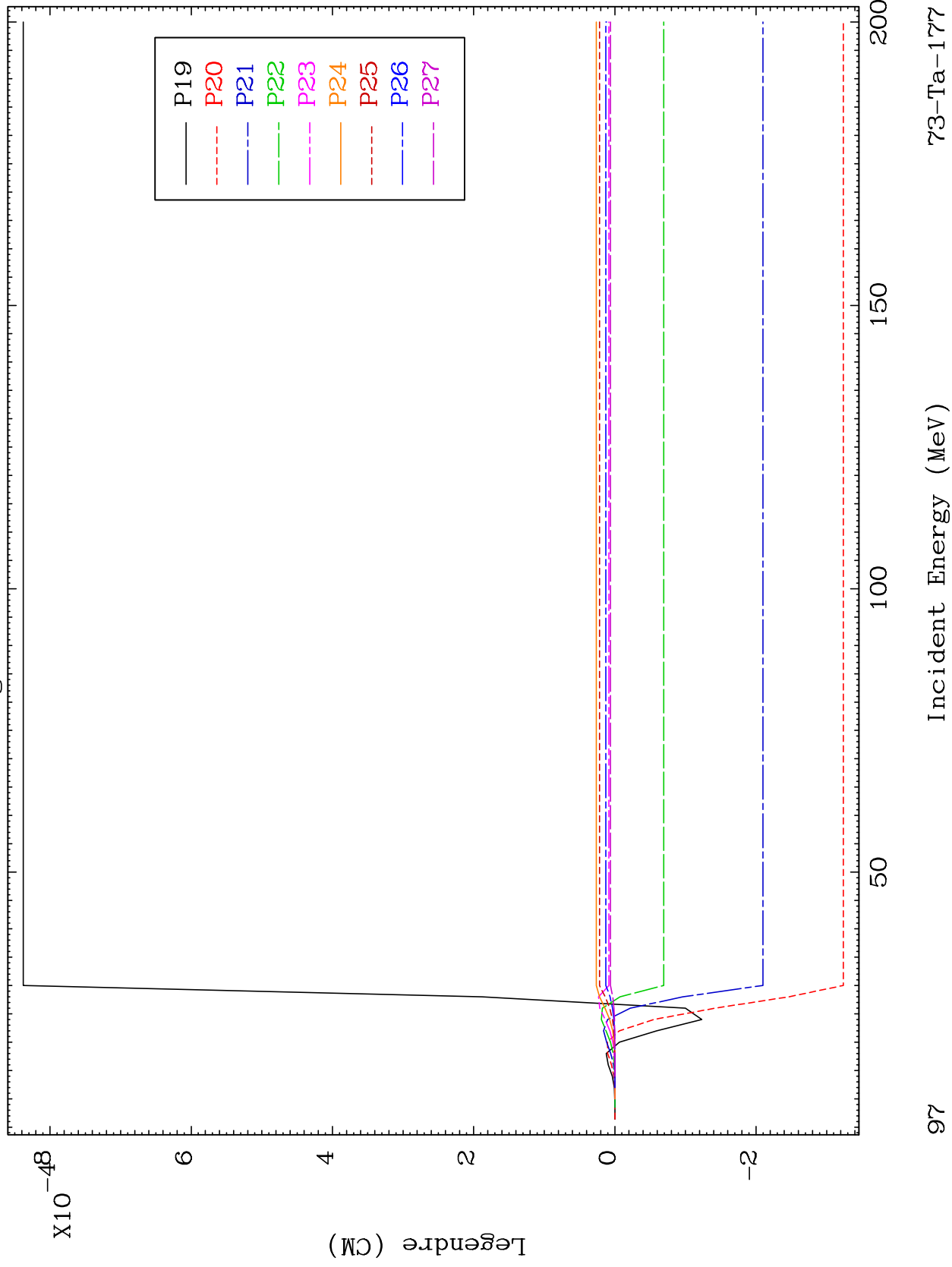
94

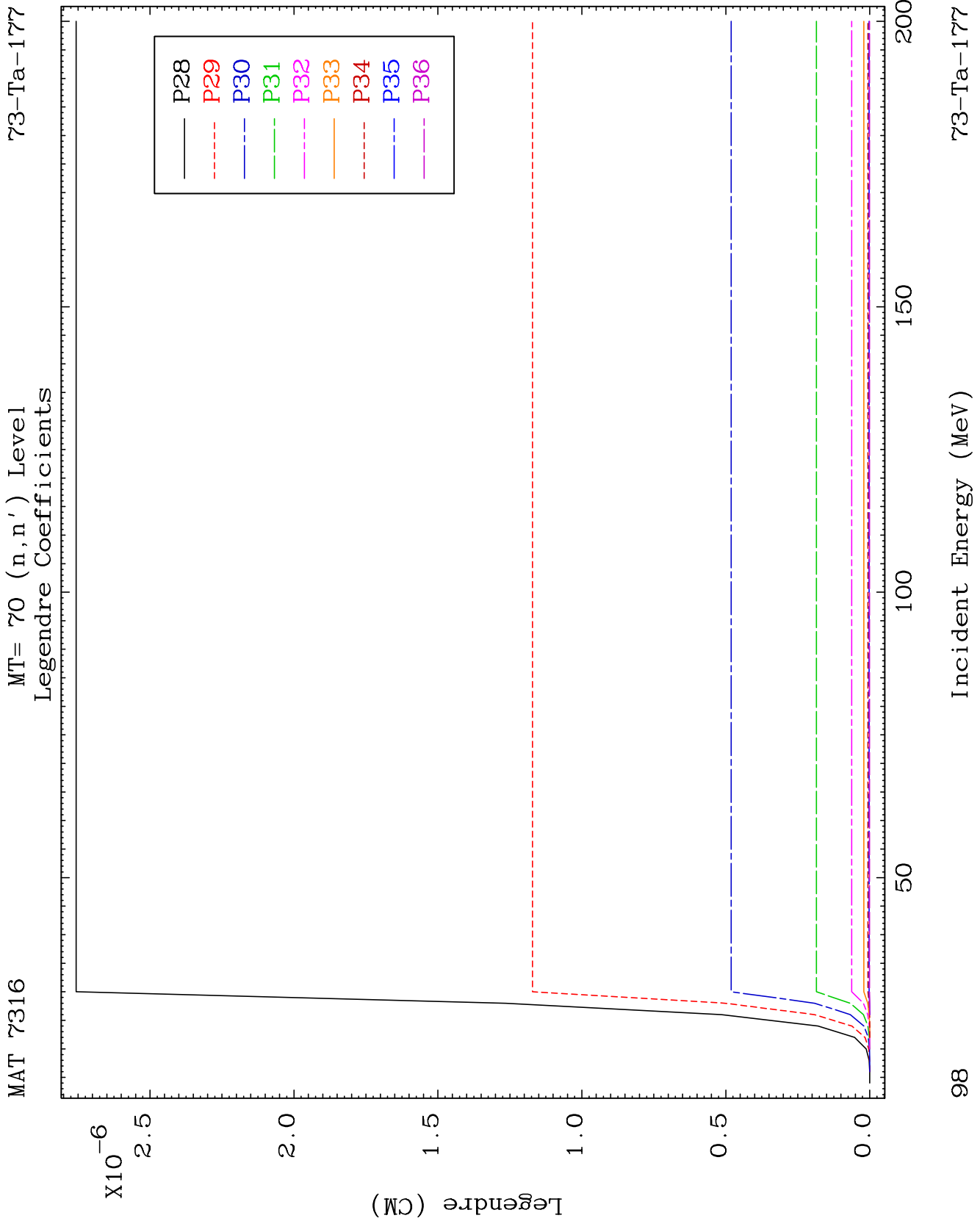


MAT 7316

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

73-Ta-177

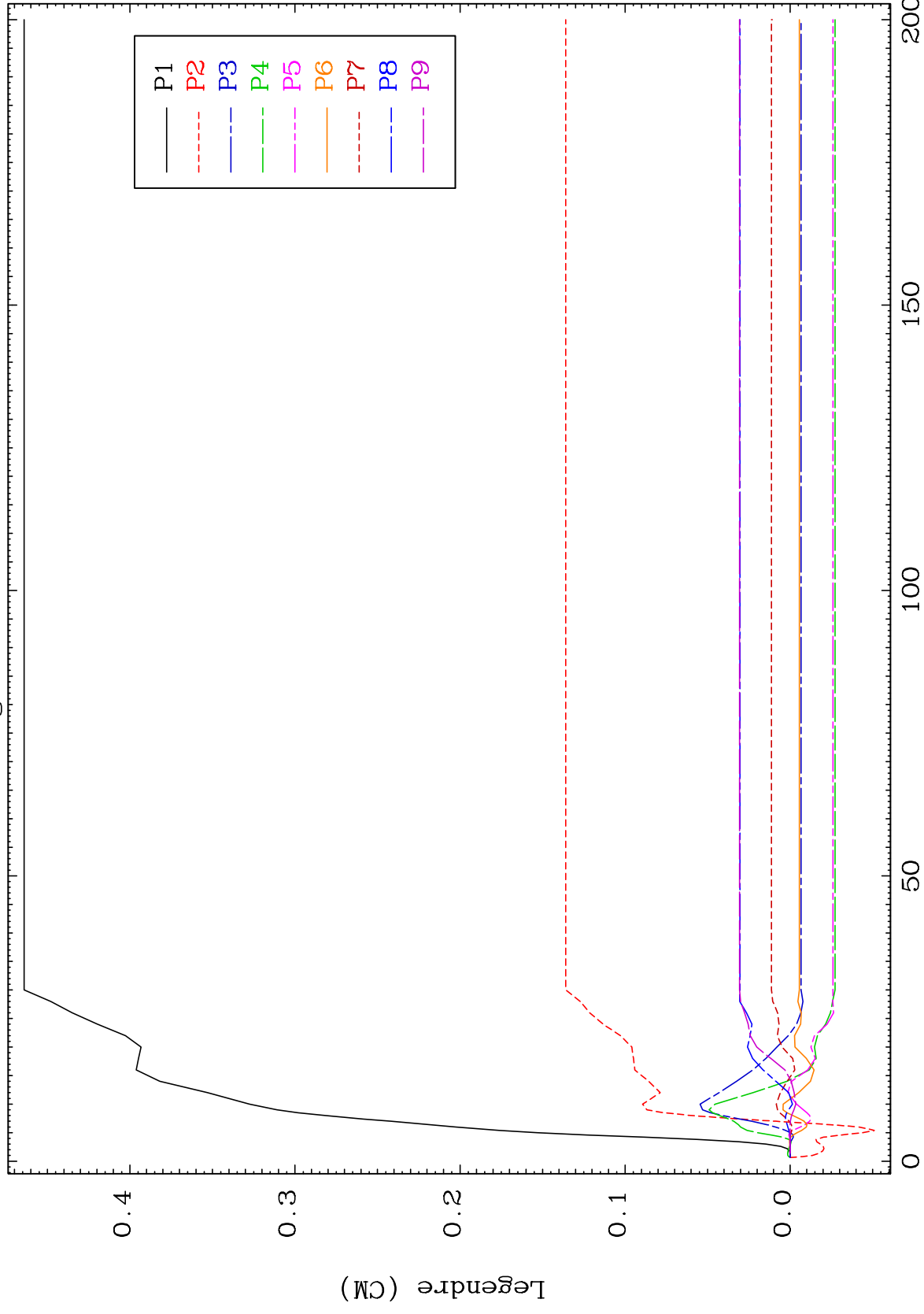




MAT 7316

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

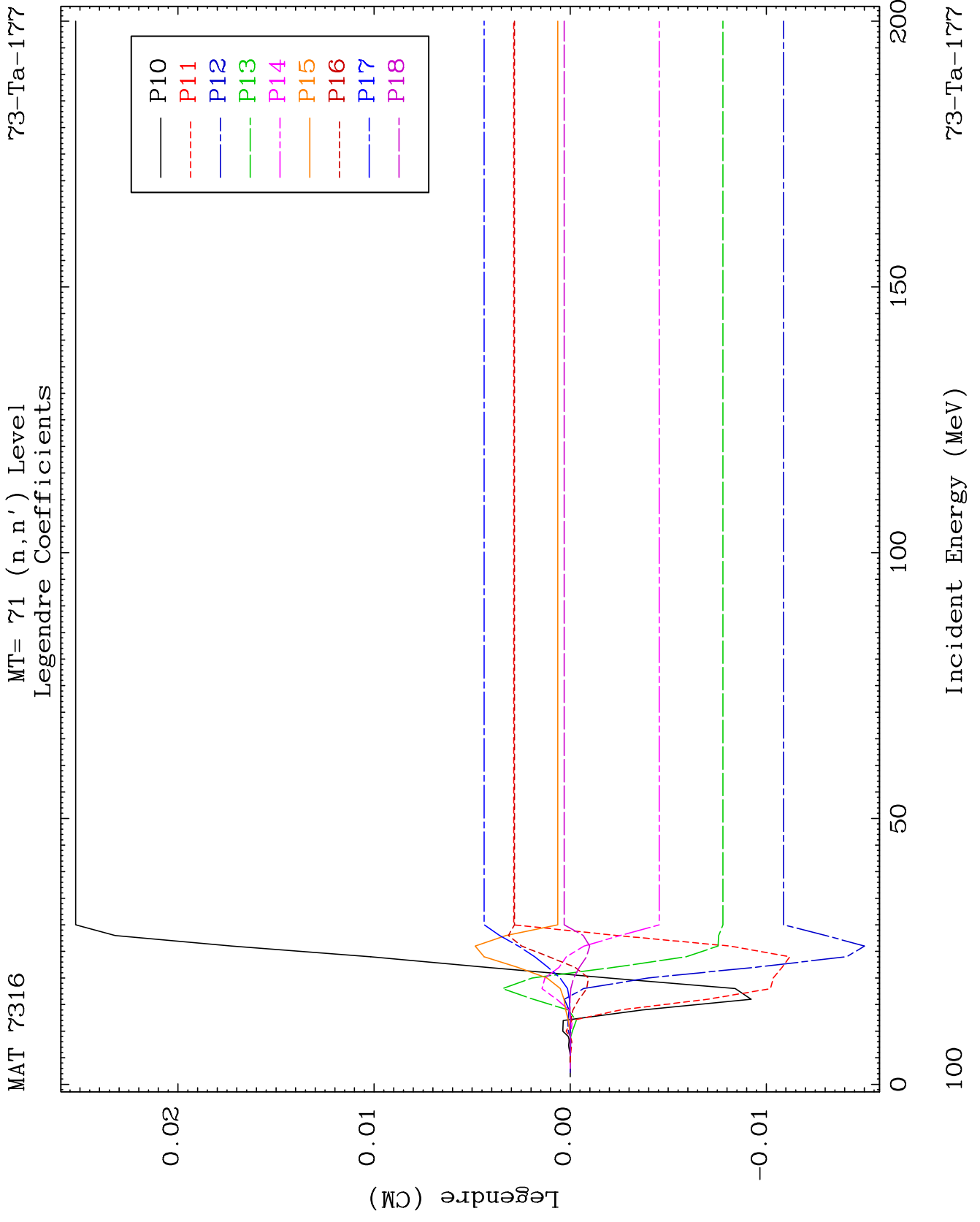
73-Ta-177

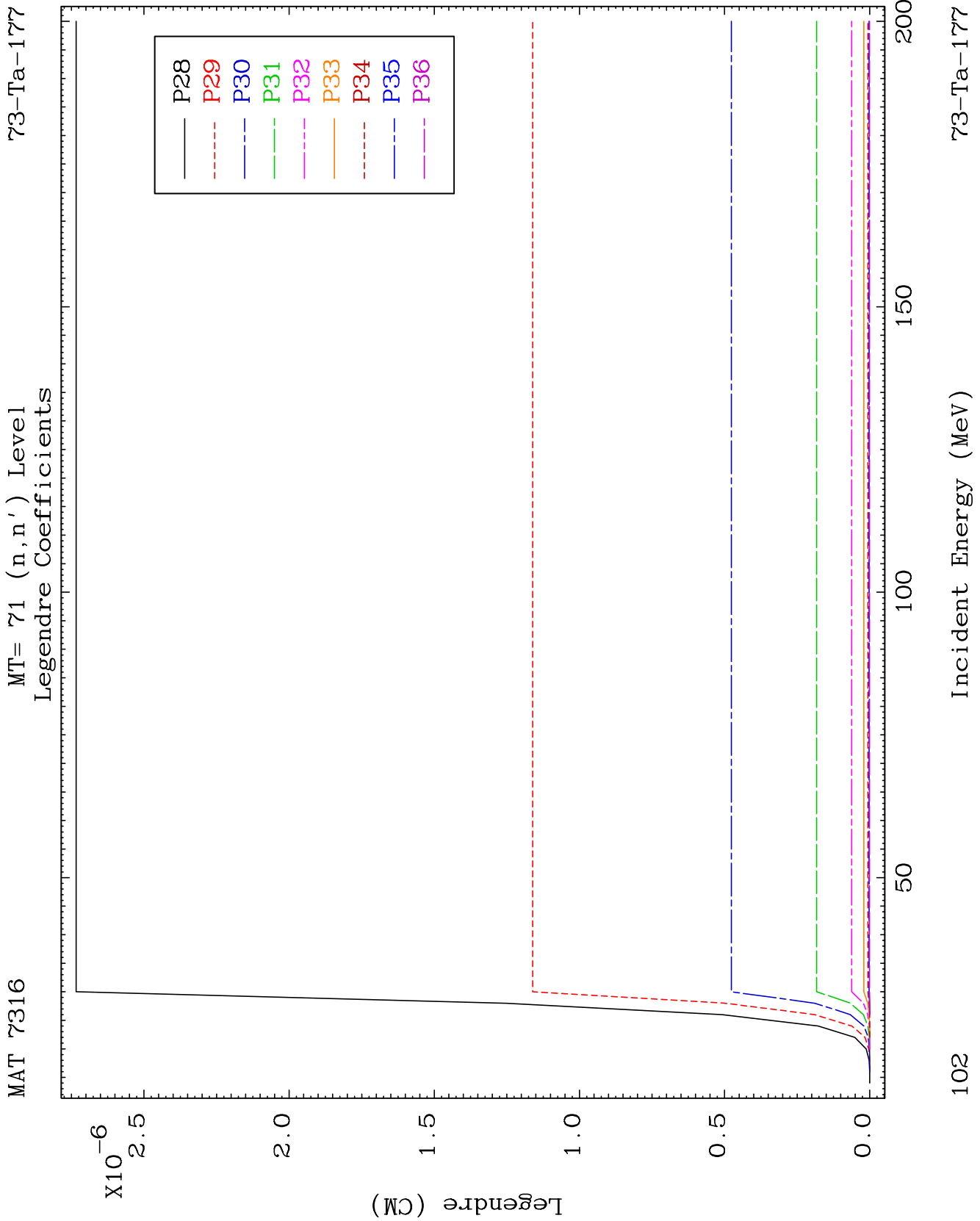


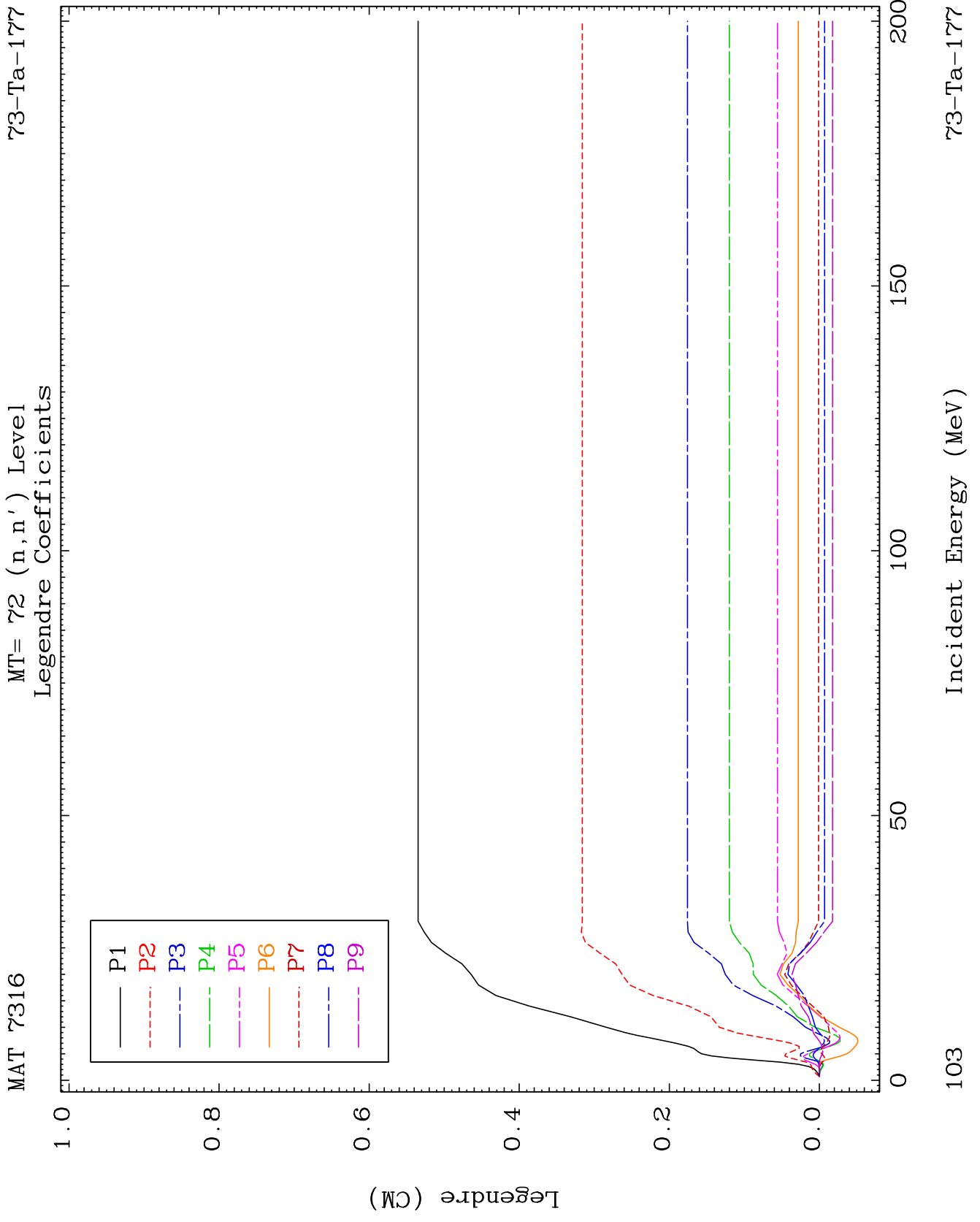
99

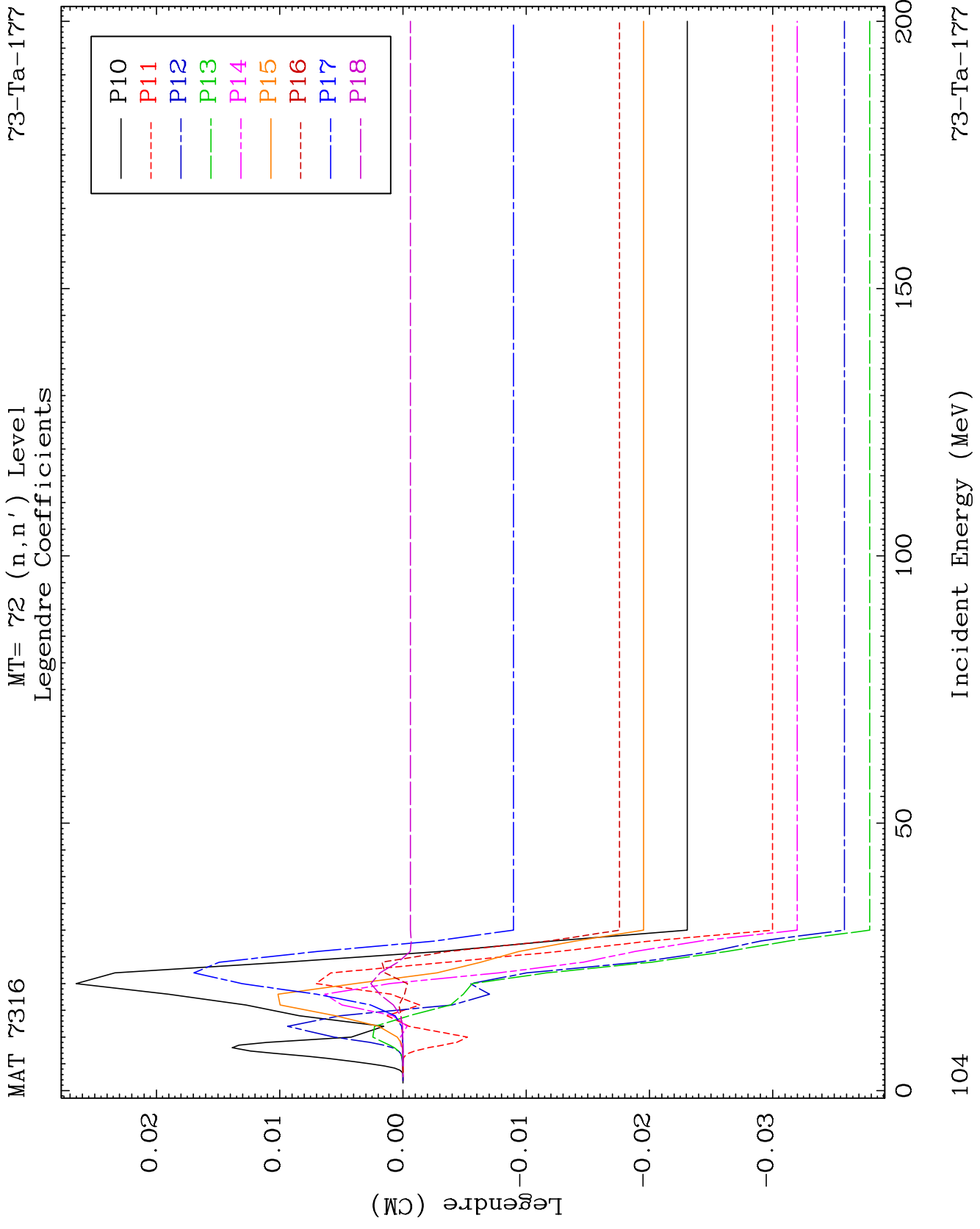
Incident Energy (MeV)

73-Ta-177





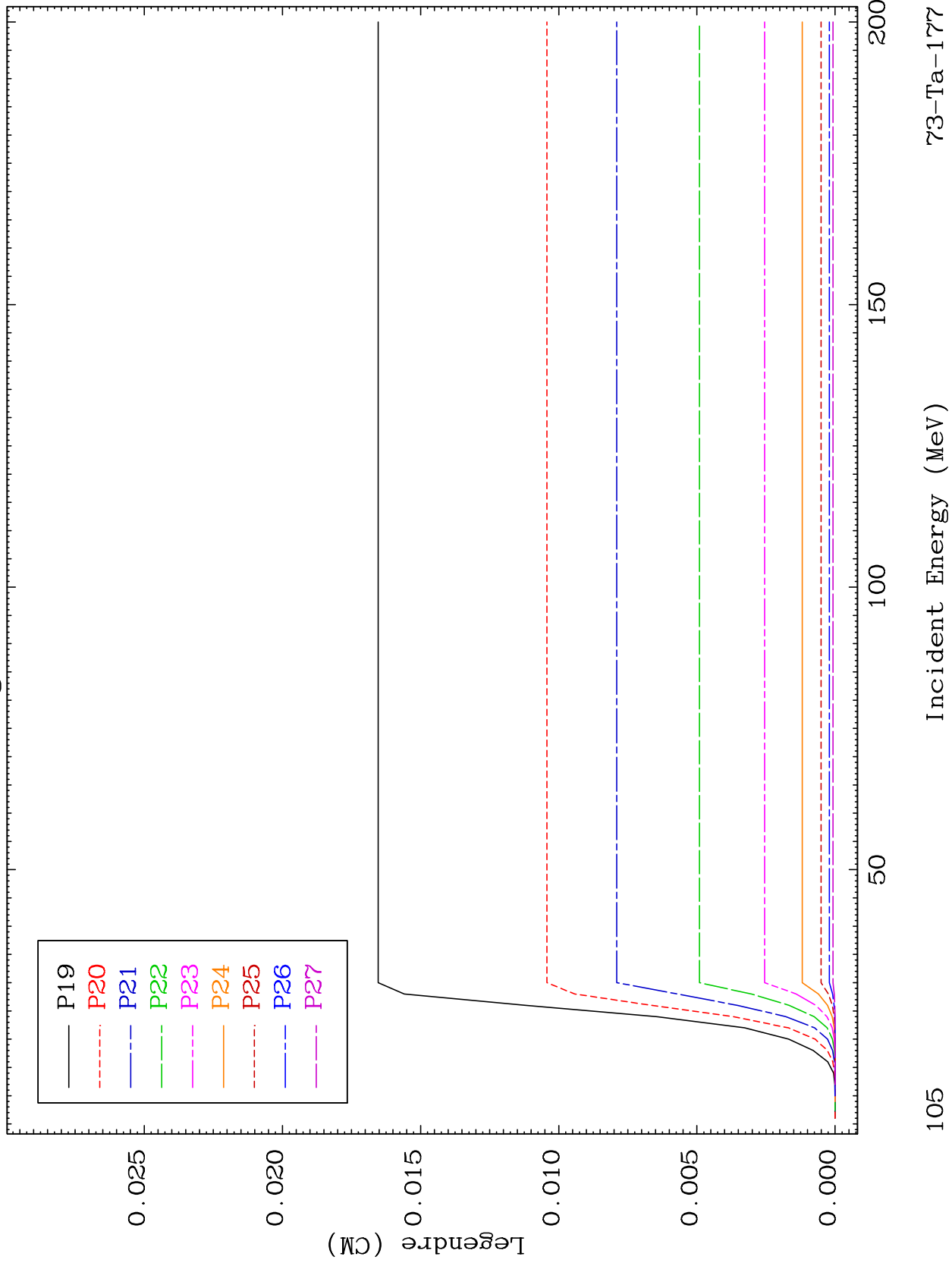




MAT 7316

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

73-Ta-177



105

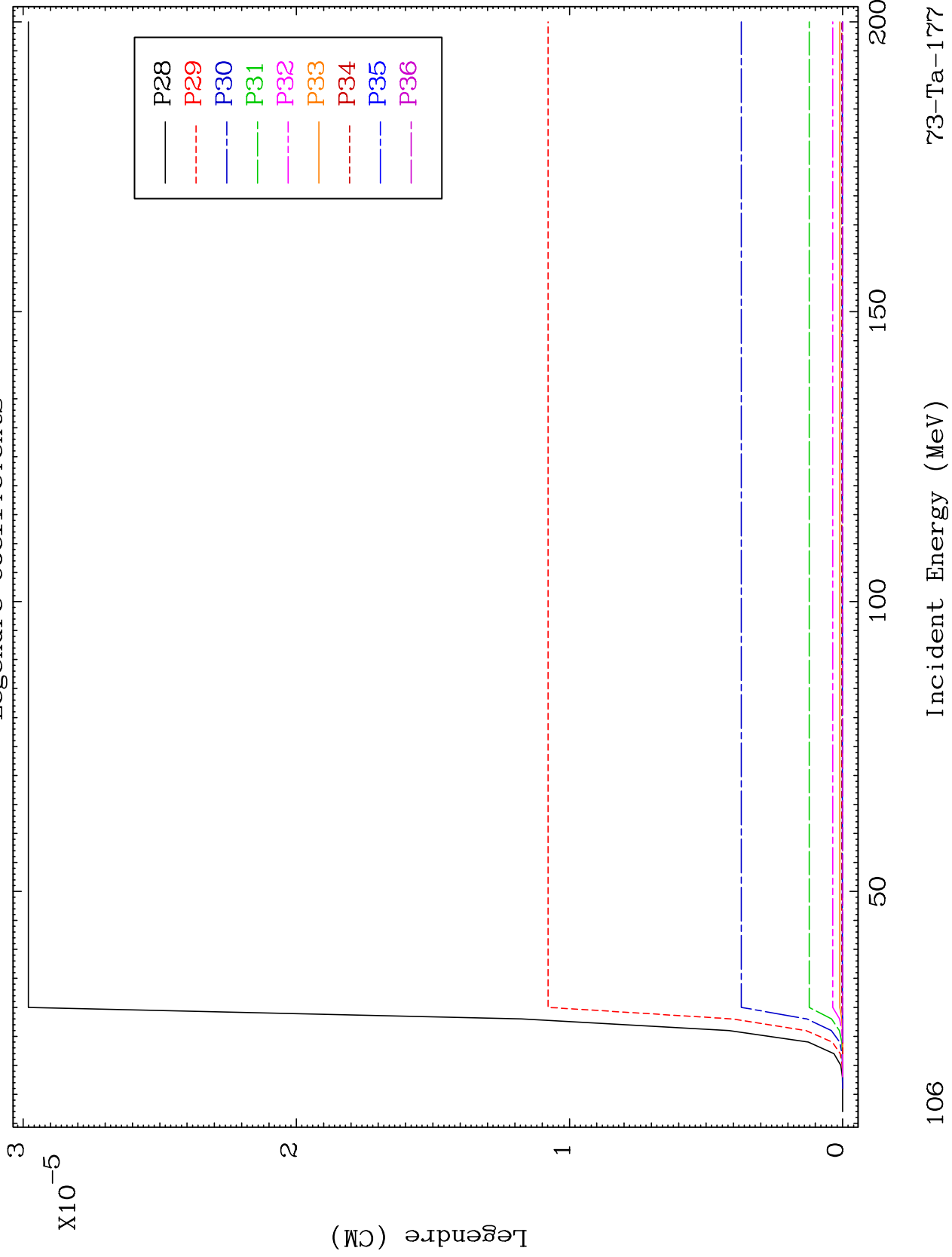
Incident Energy (MeV)

73-Ta-177

MAT 7316

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

73-Ta-177



106

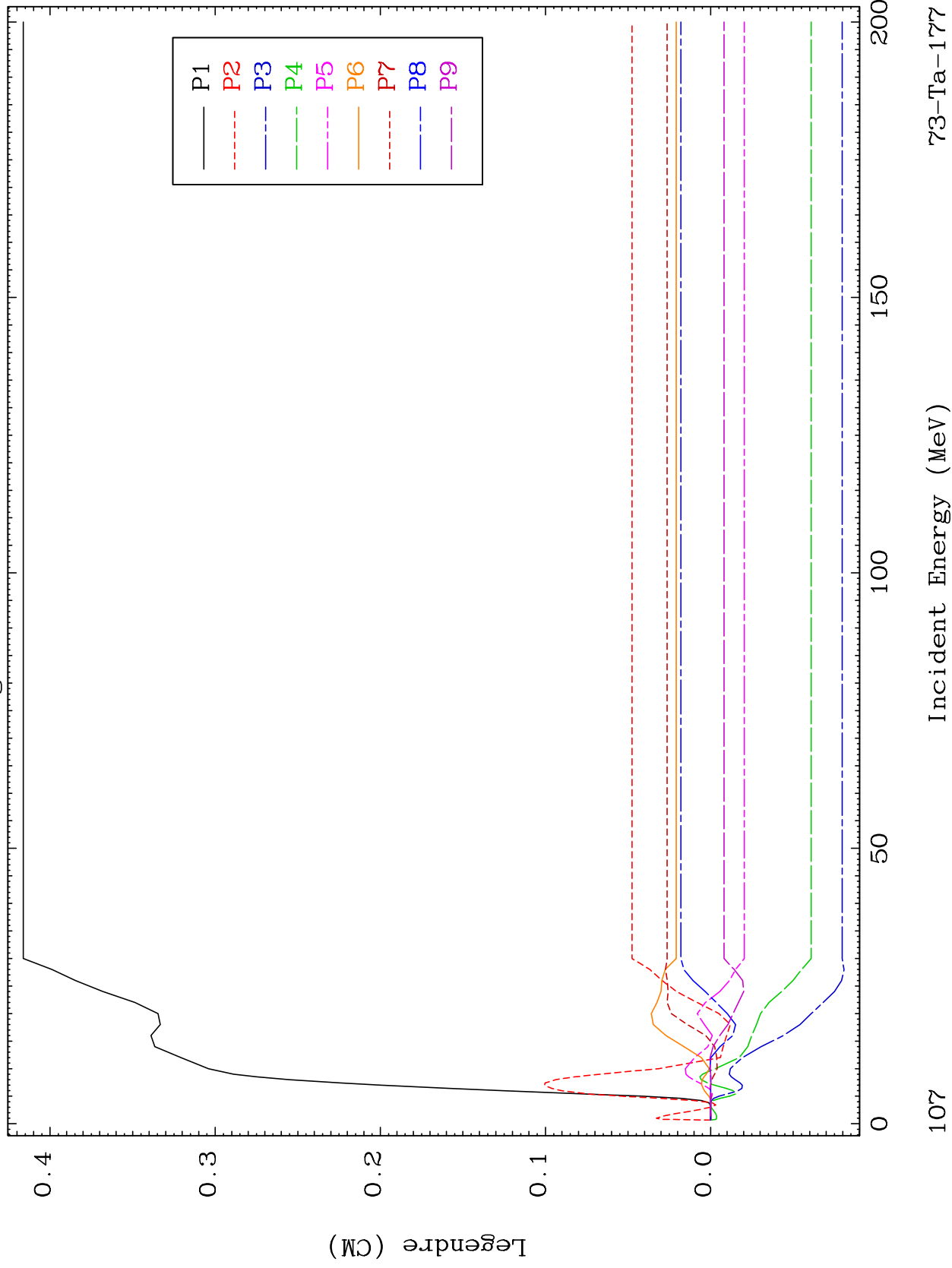
Incident Energy (MeV)

73-Ta-177

MAT 7316

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

73-Ta-177



107

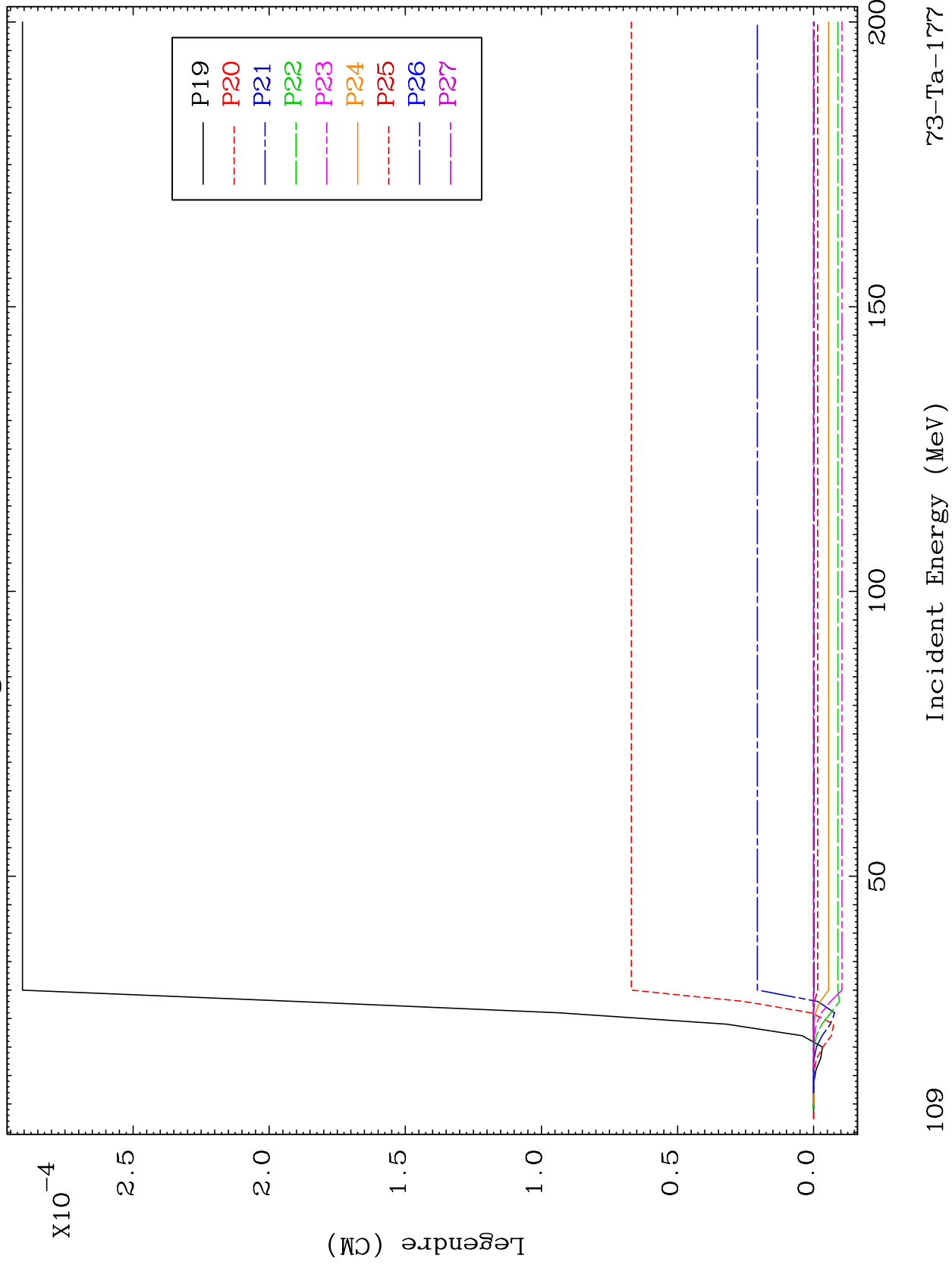
Incident Energy (MeV)

73-Ta-177

MAT 7316

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

73-Ta-177



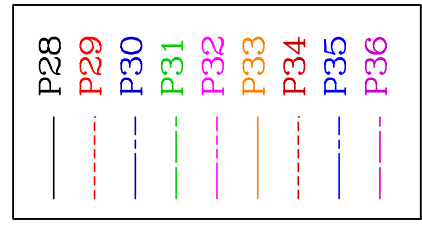
109

73-Ta-177

MAT 7316

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

73-Ta-177



$\times 10^{-7}$
1.5
1.0

Legendre (CM)

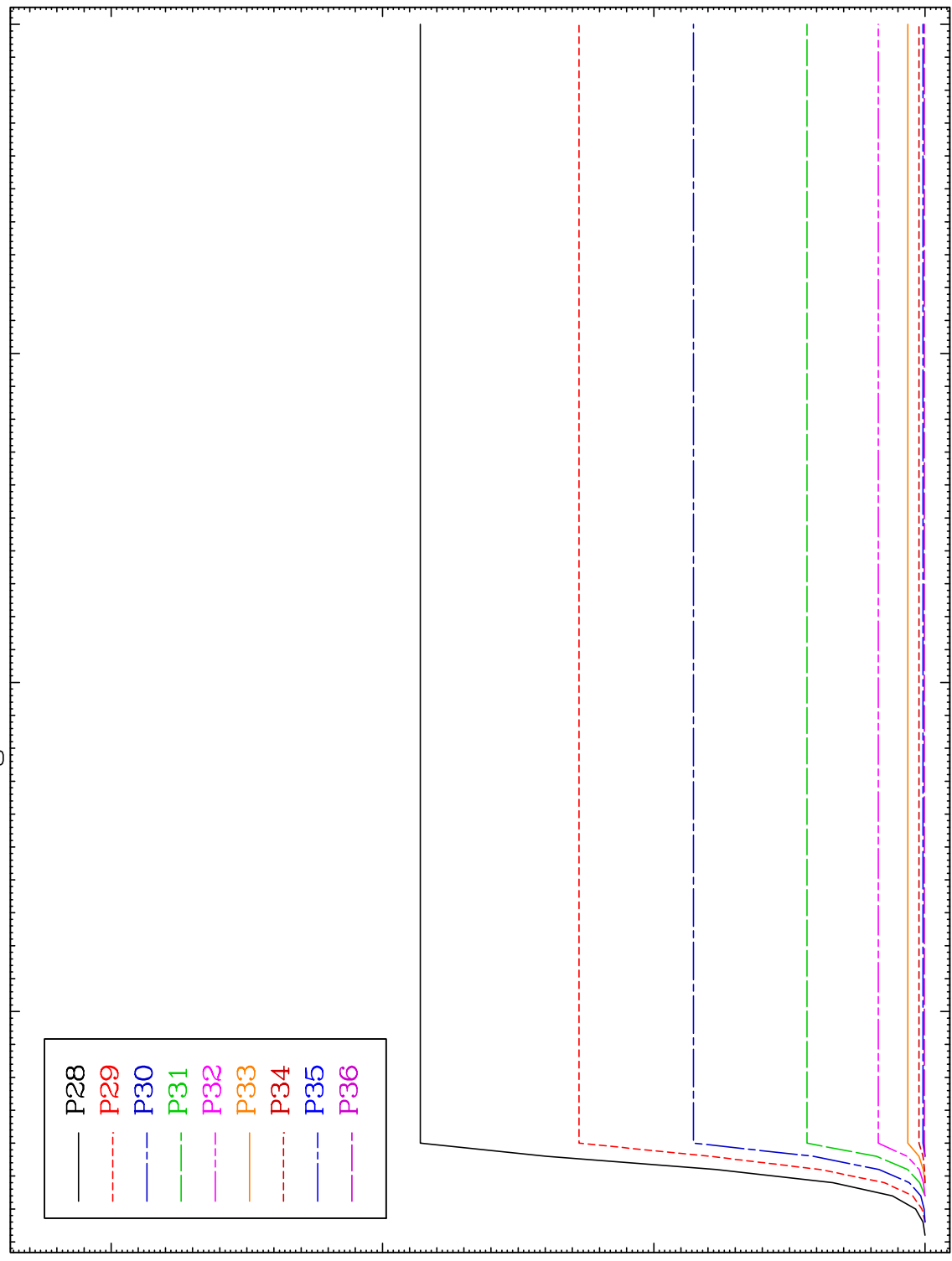
0.5
0.0

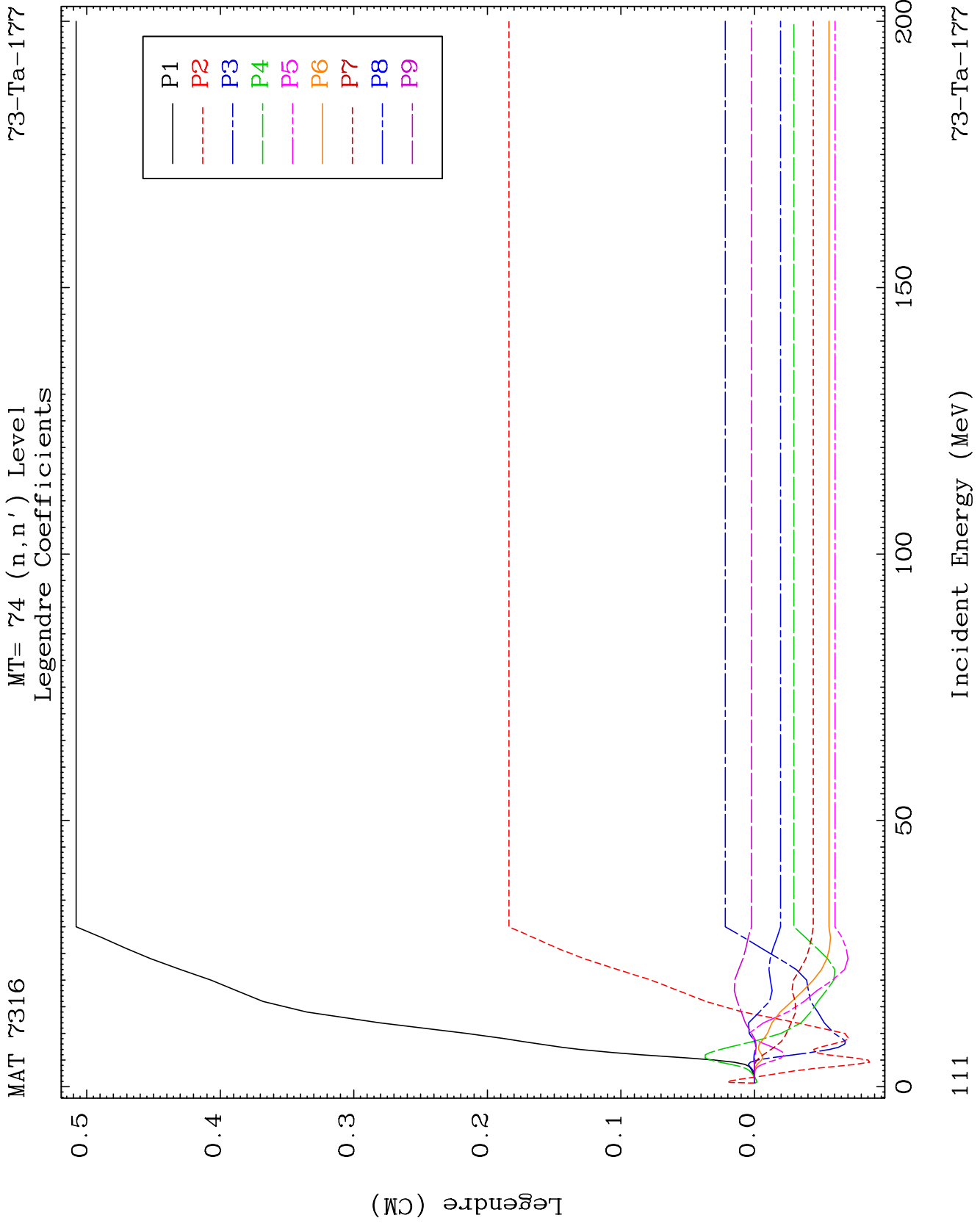
50 100 150 200

110

Incident Energy (MeV)

73-Ta-177

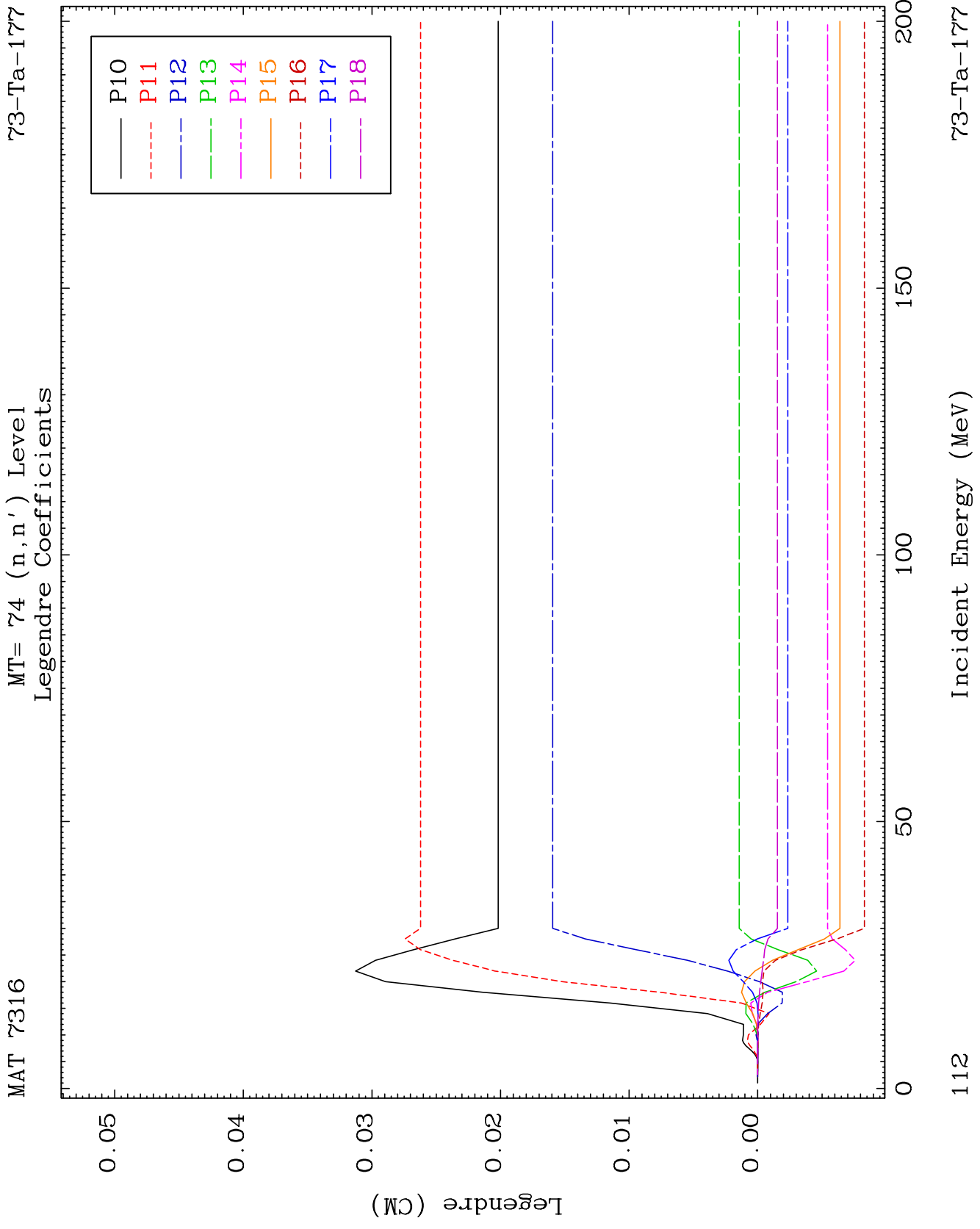


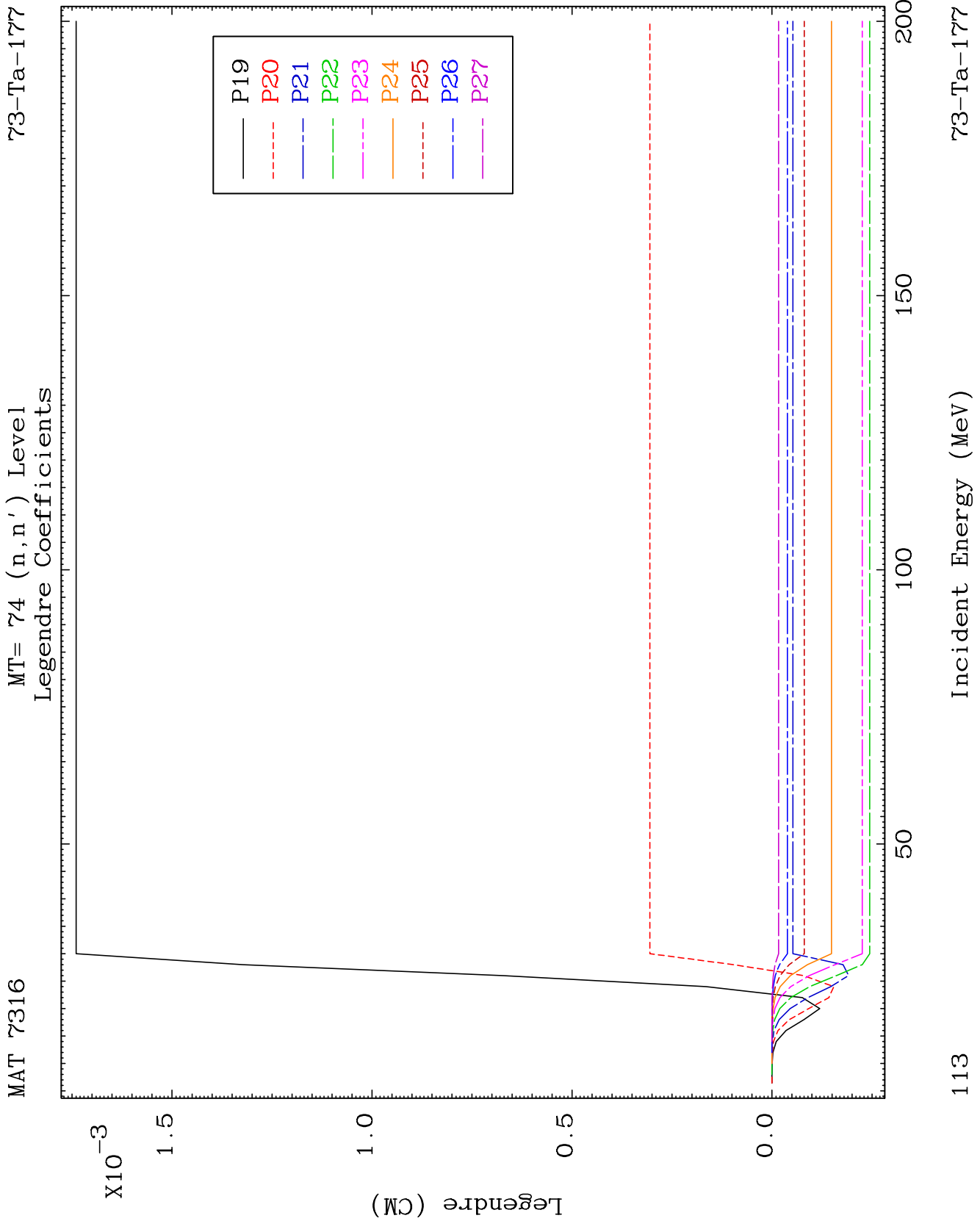


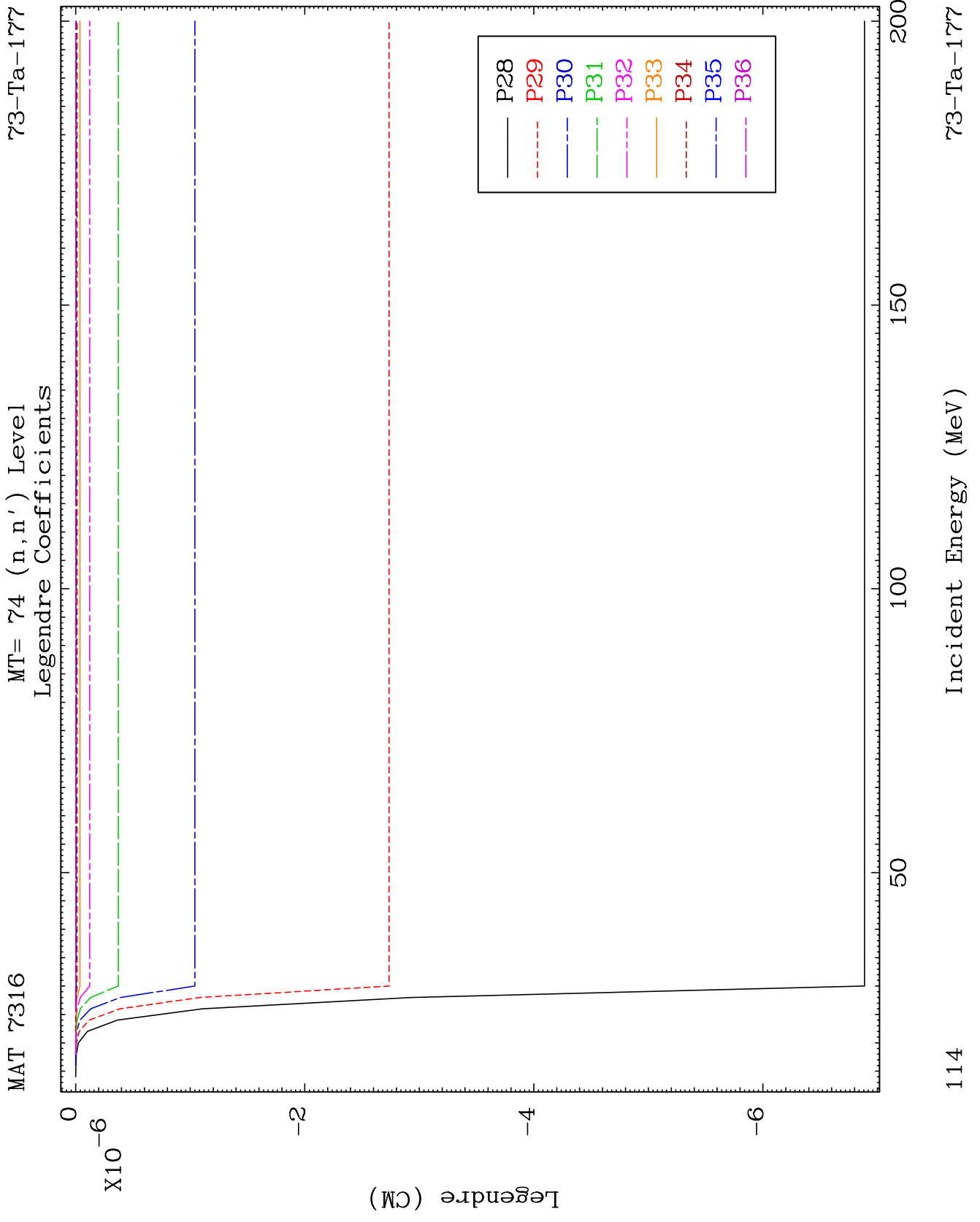
73-Ta-177

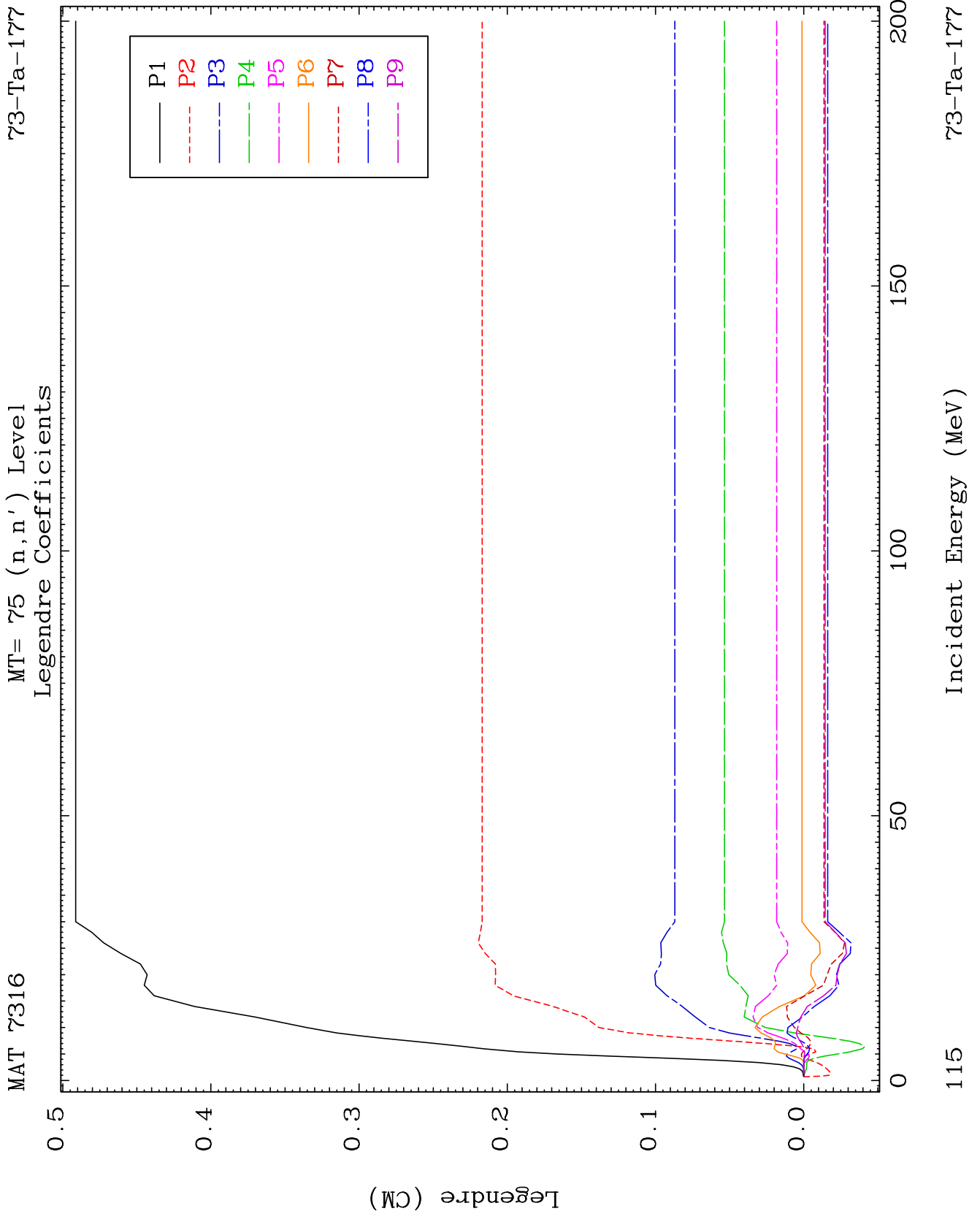
Incident Energy (MeV)

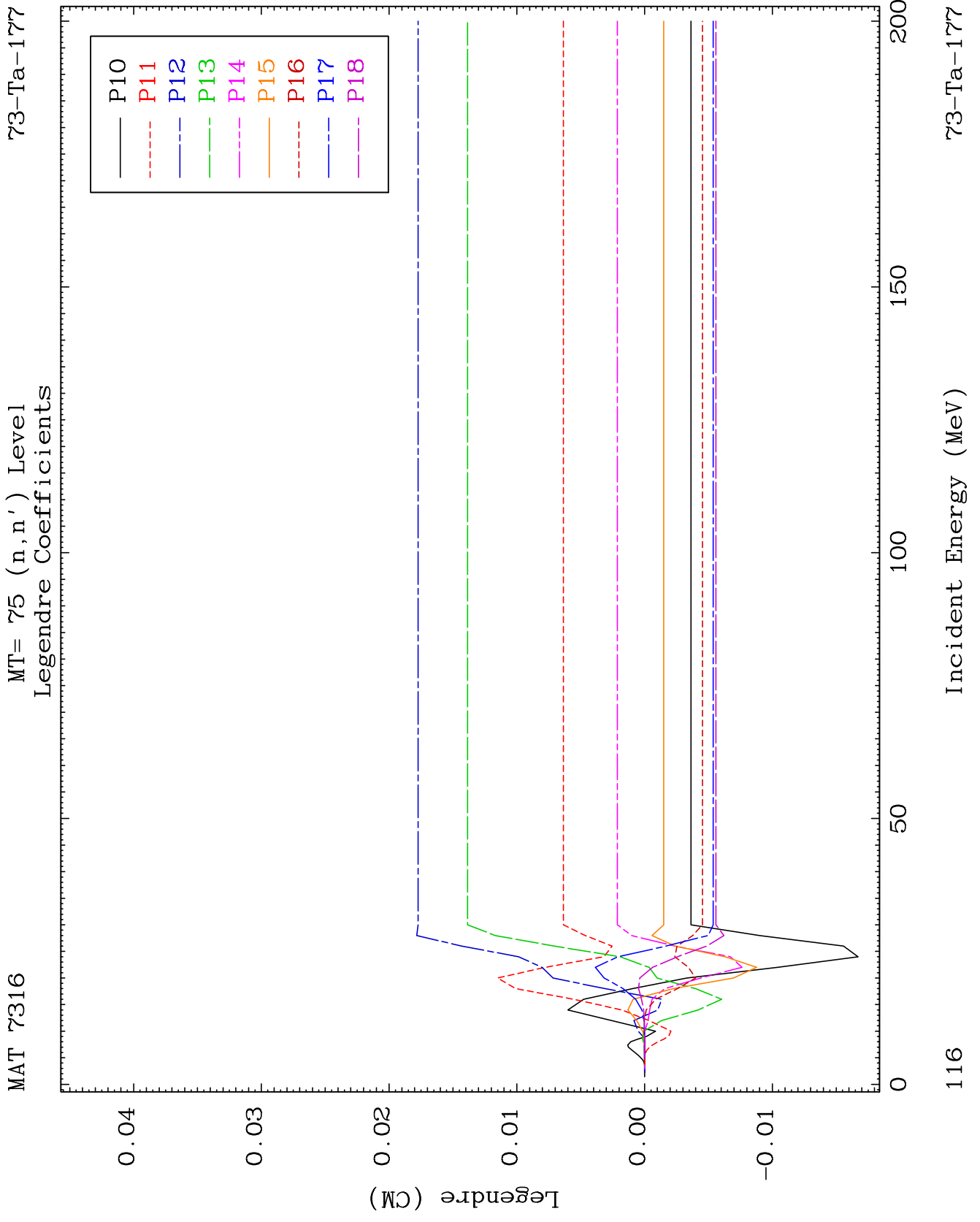
111

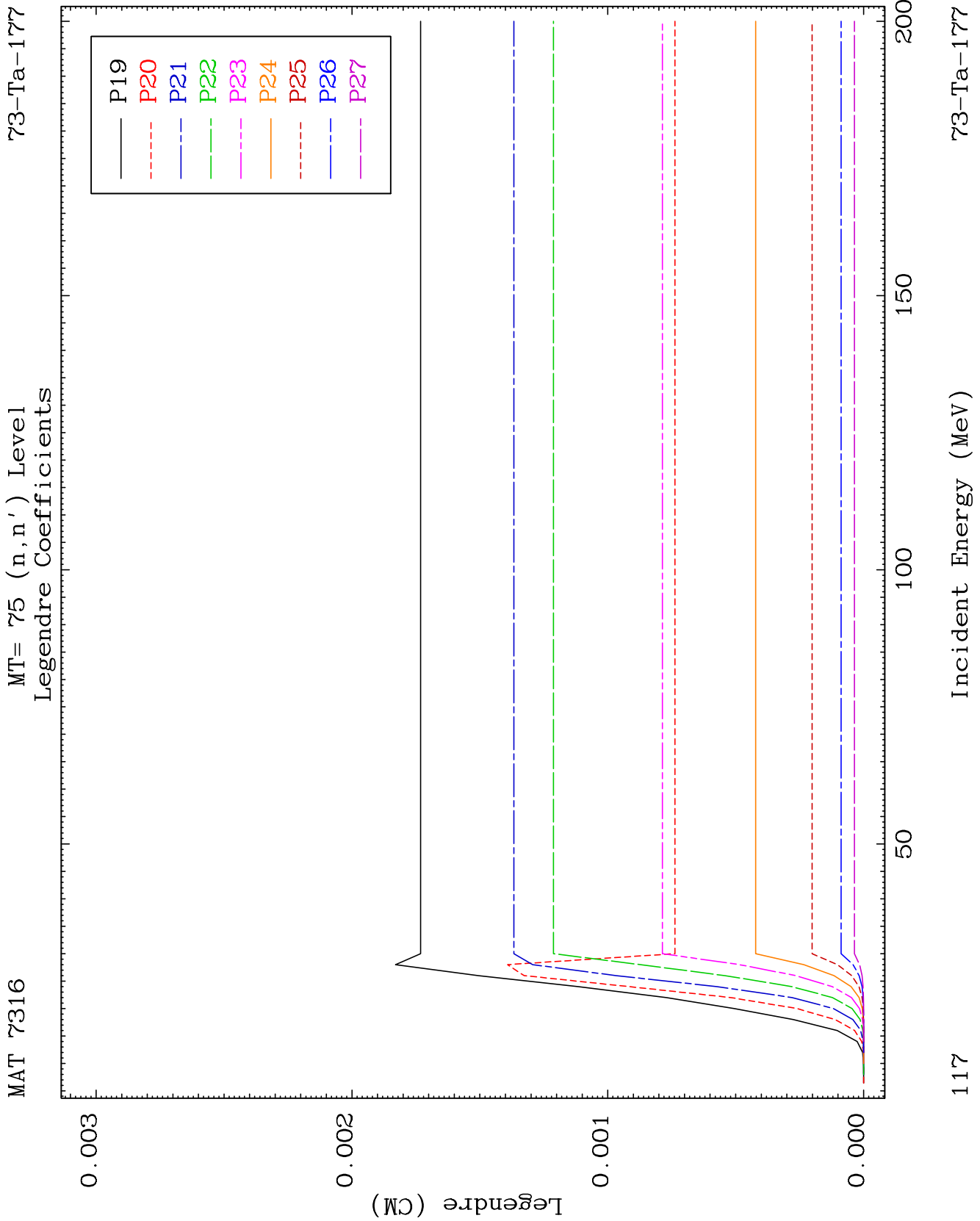


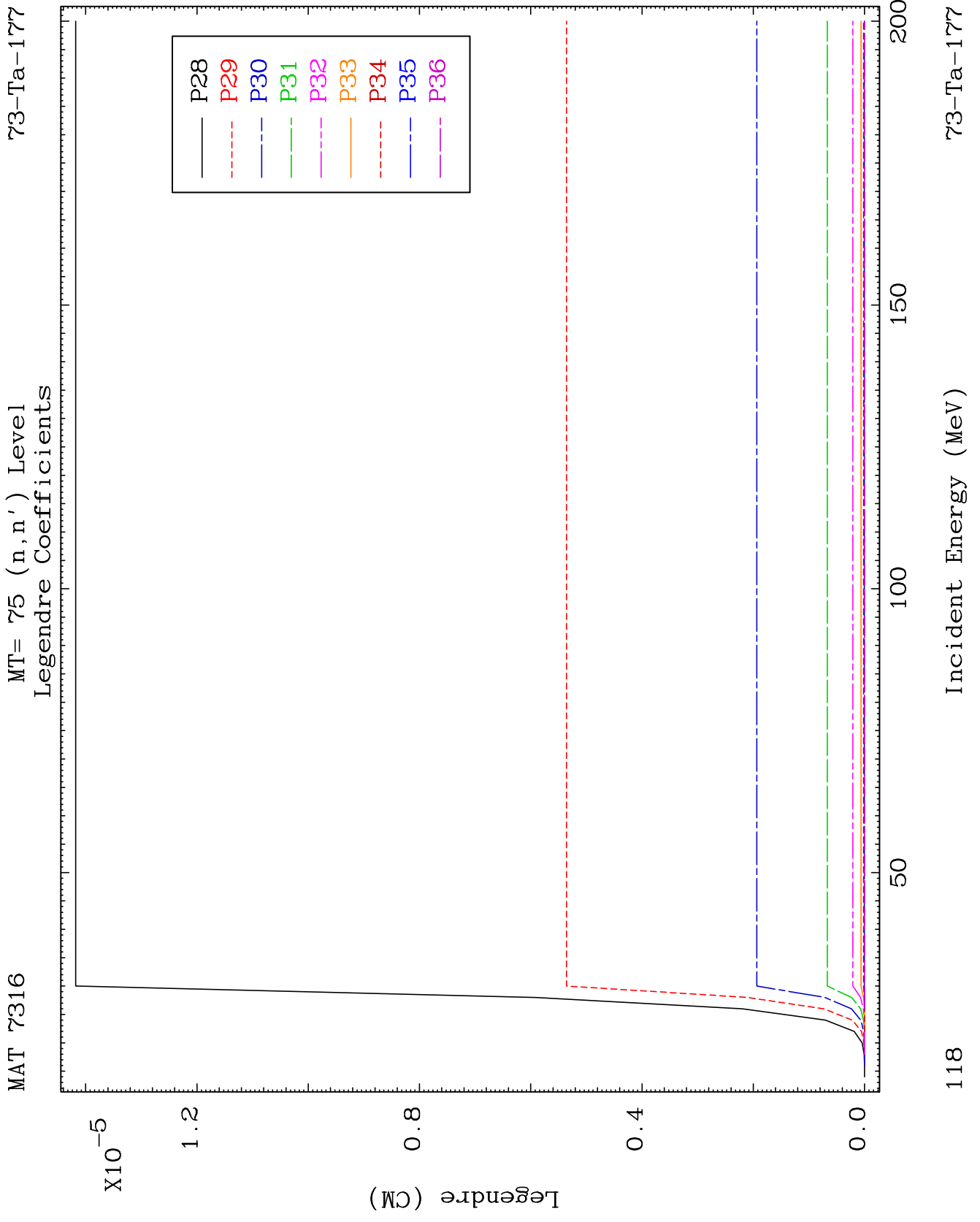


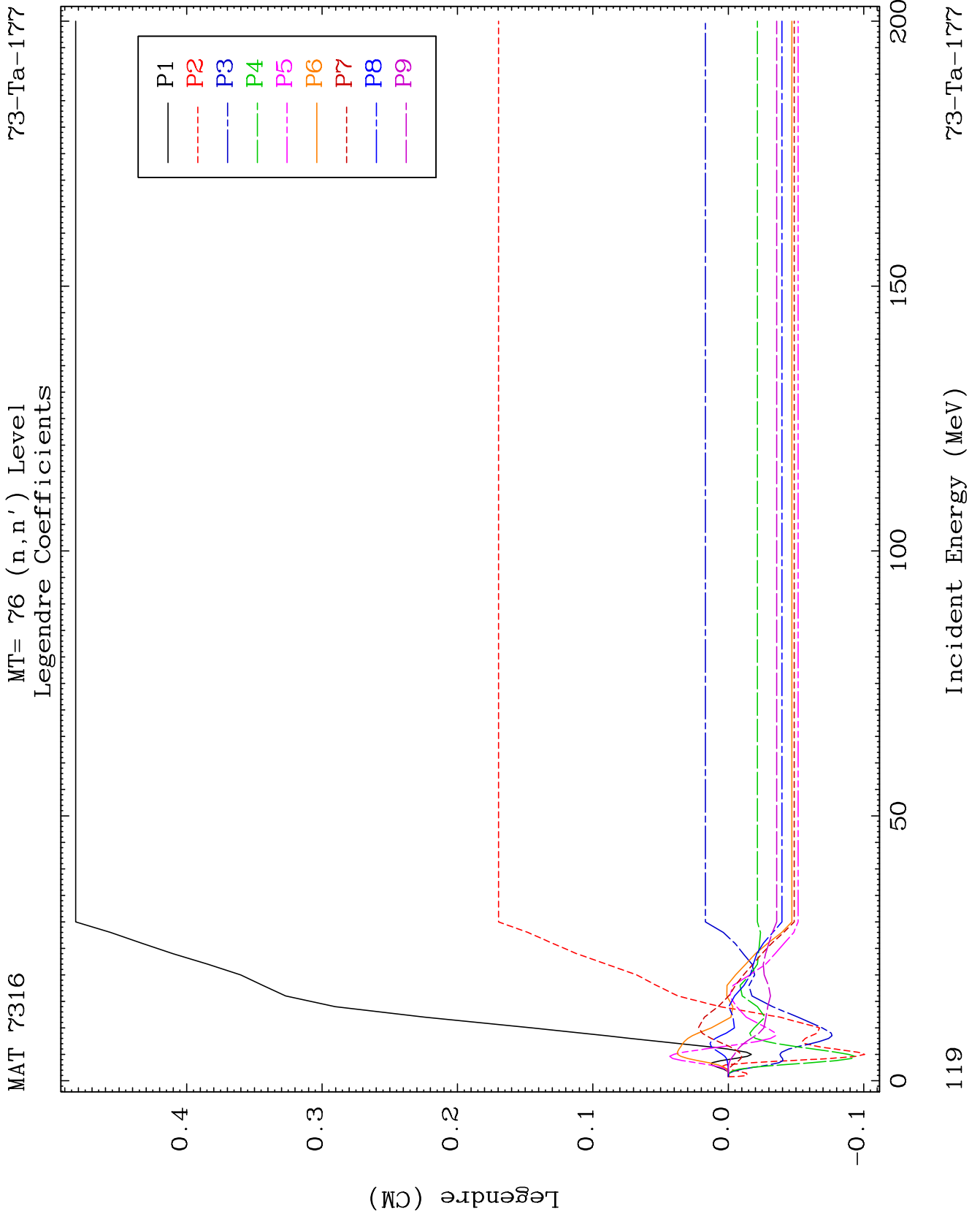


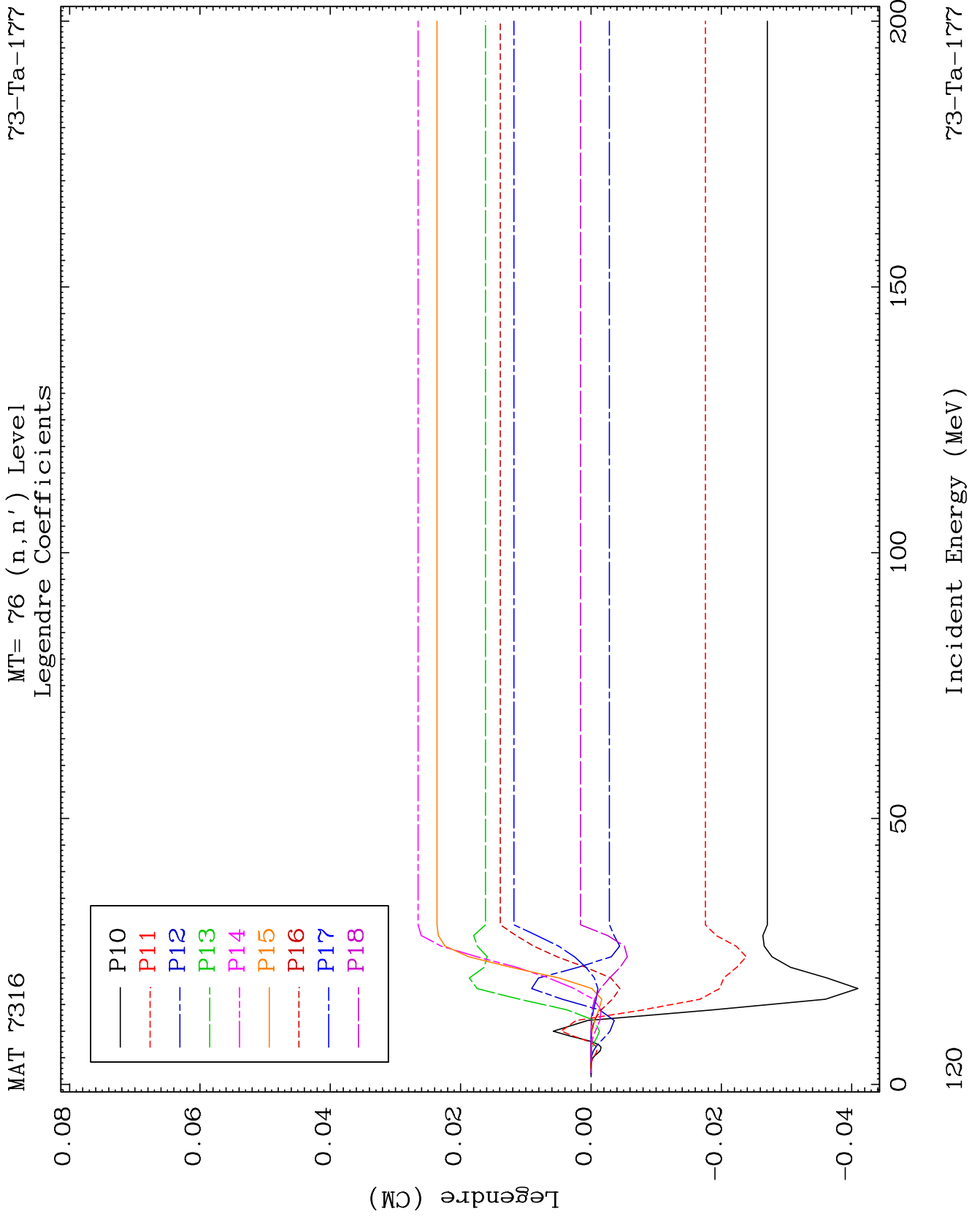








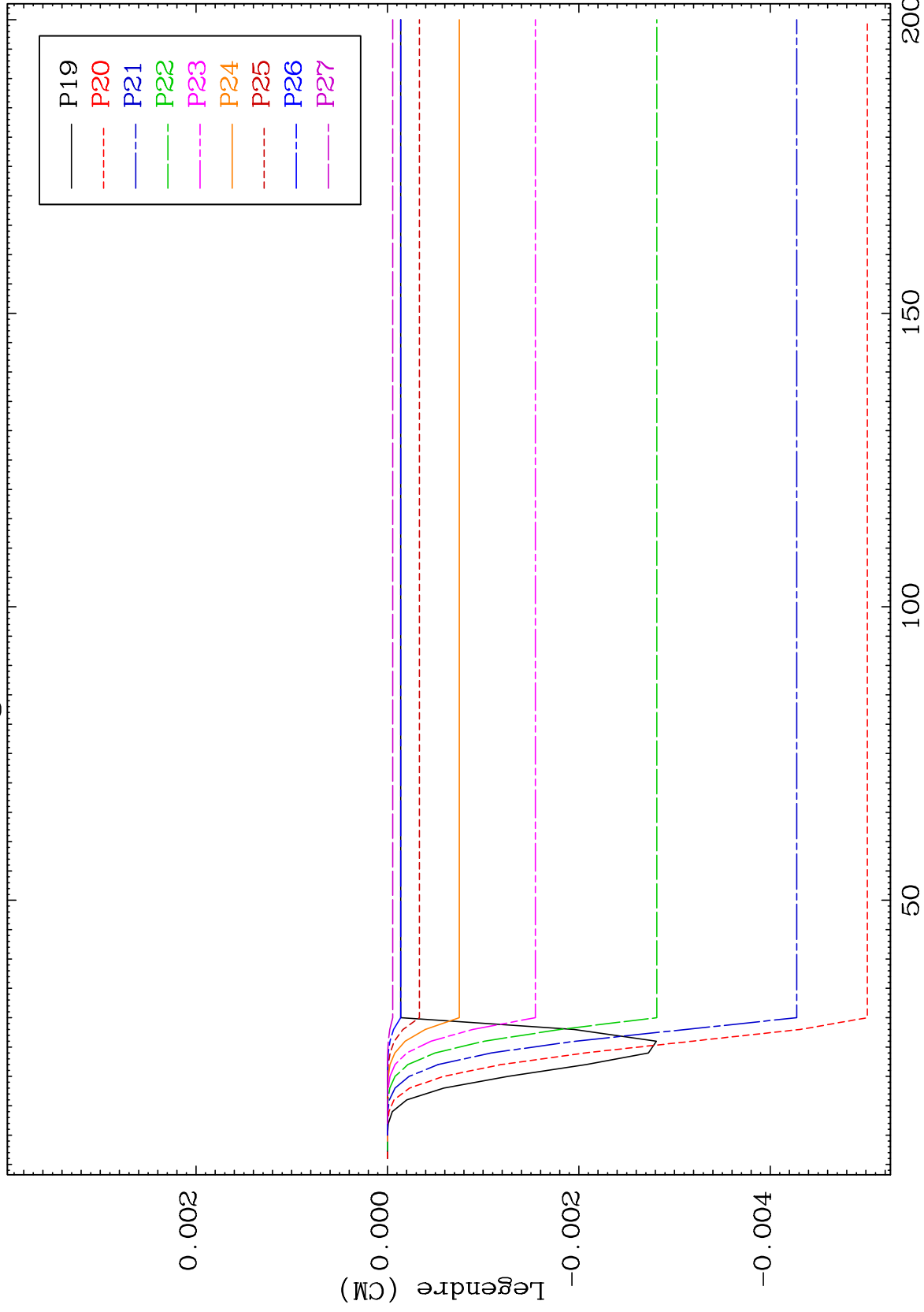




MAT 7316

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

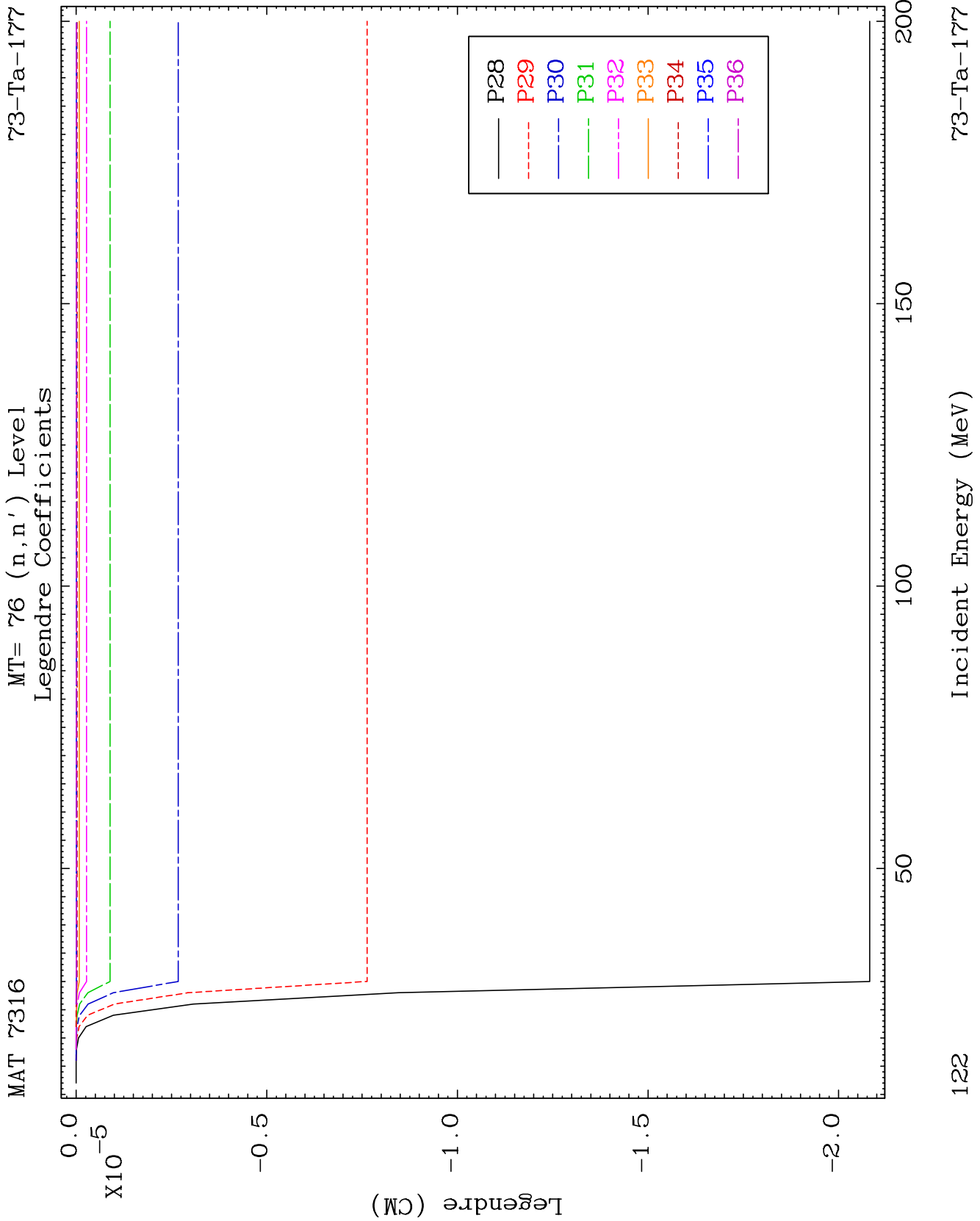
73-Ta-177



121

Incident Energy (MeV)

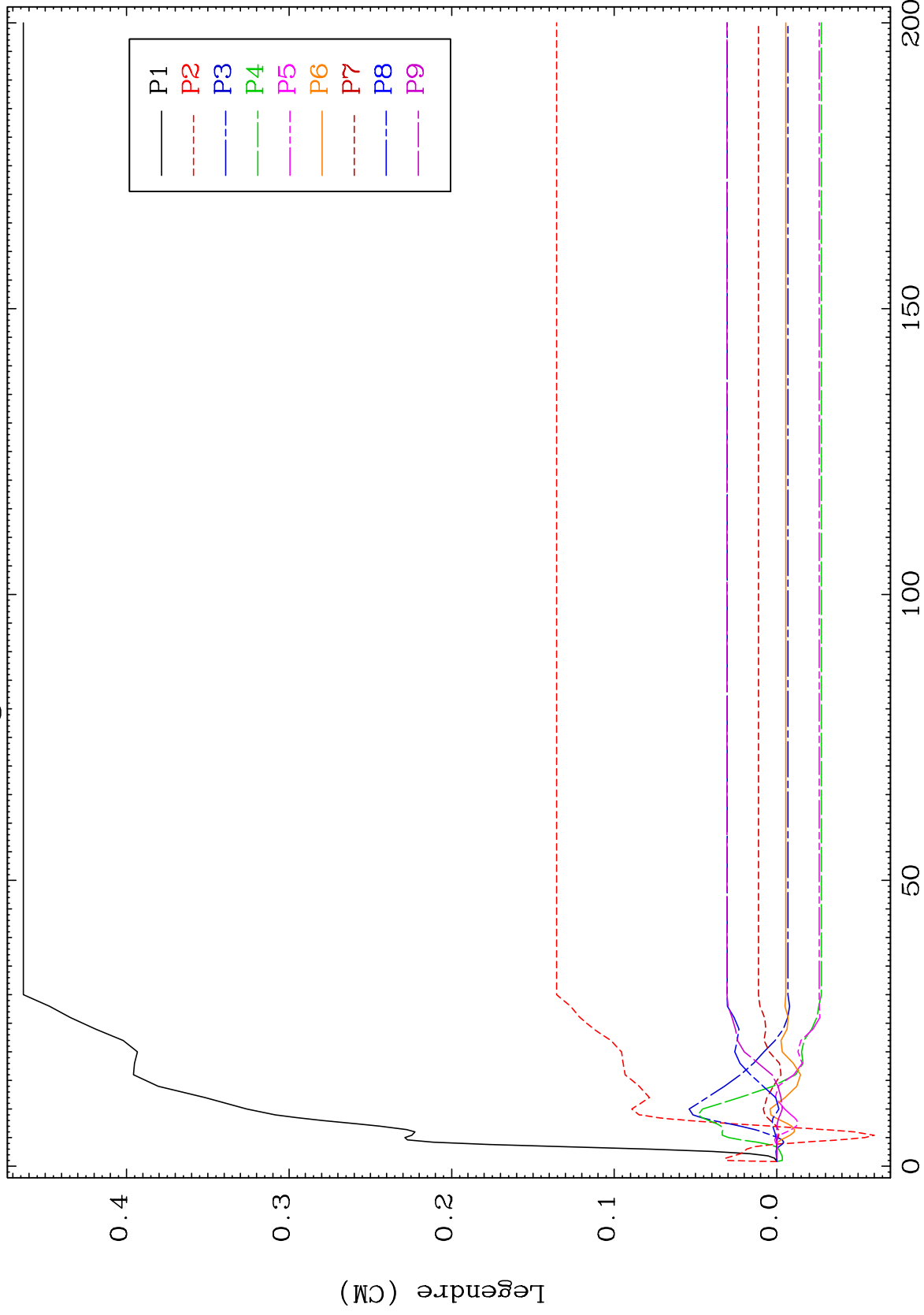
73-Ta-177



MAT 7316

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

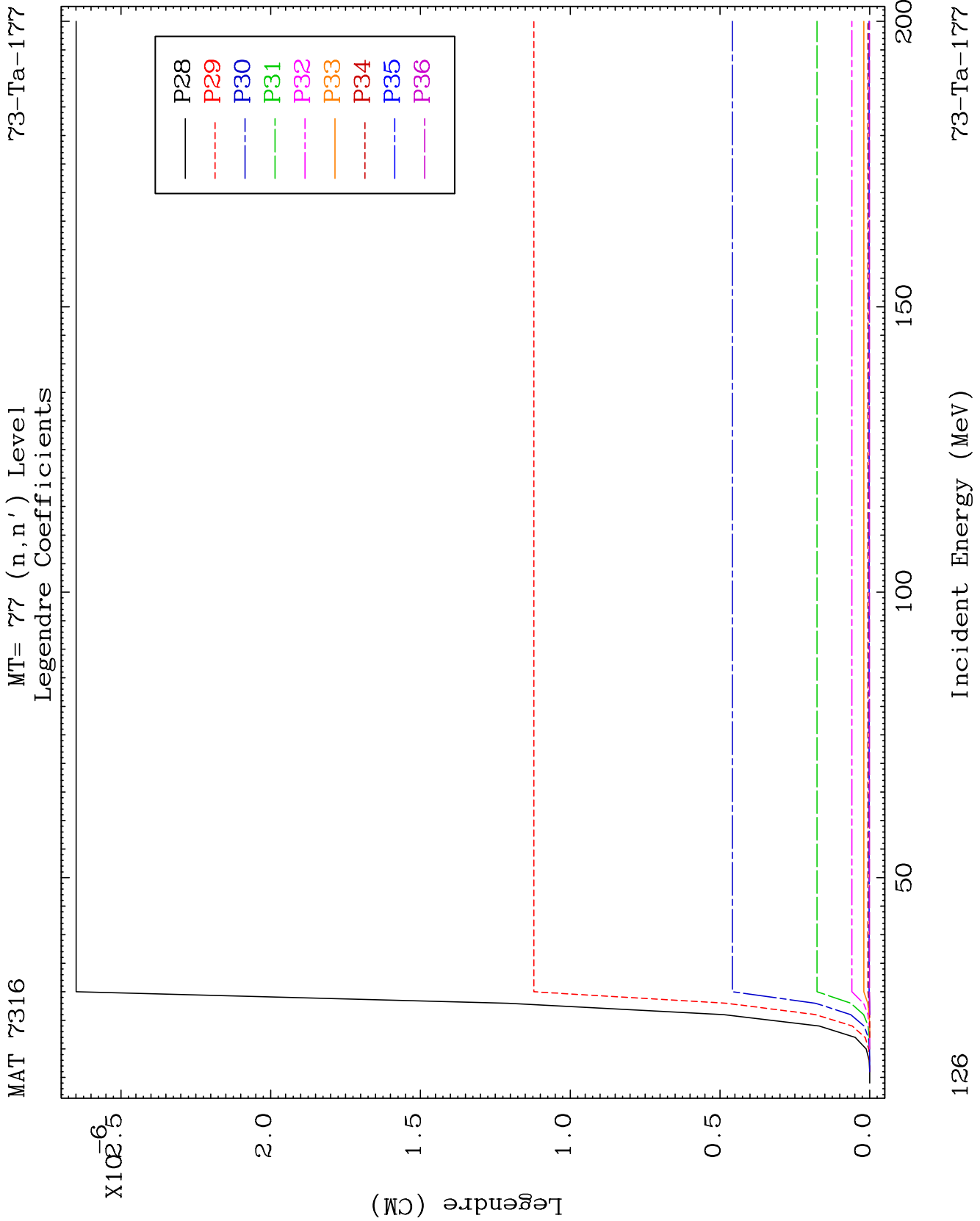
73-Ta-177



123

Incident Energy (MeV)

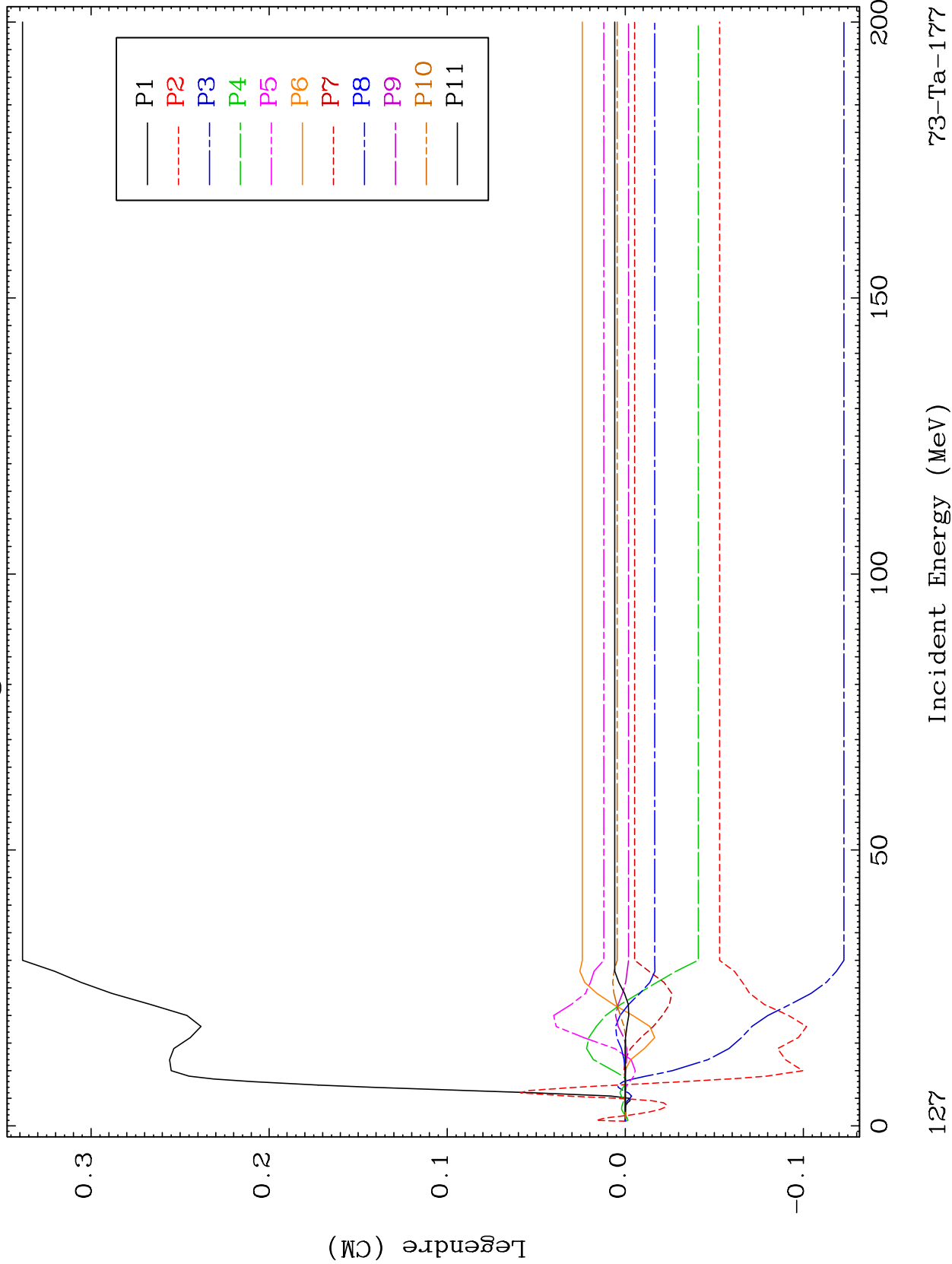
73-Ta-177



MAT 7316

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

73-Ta-177



127

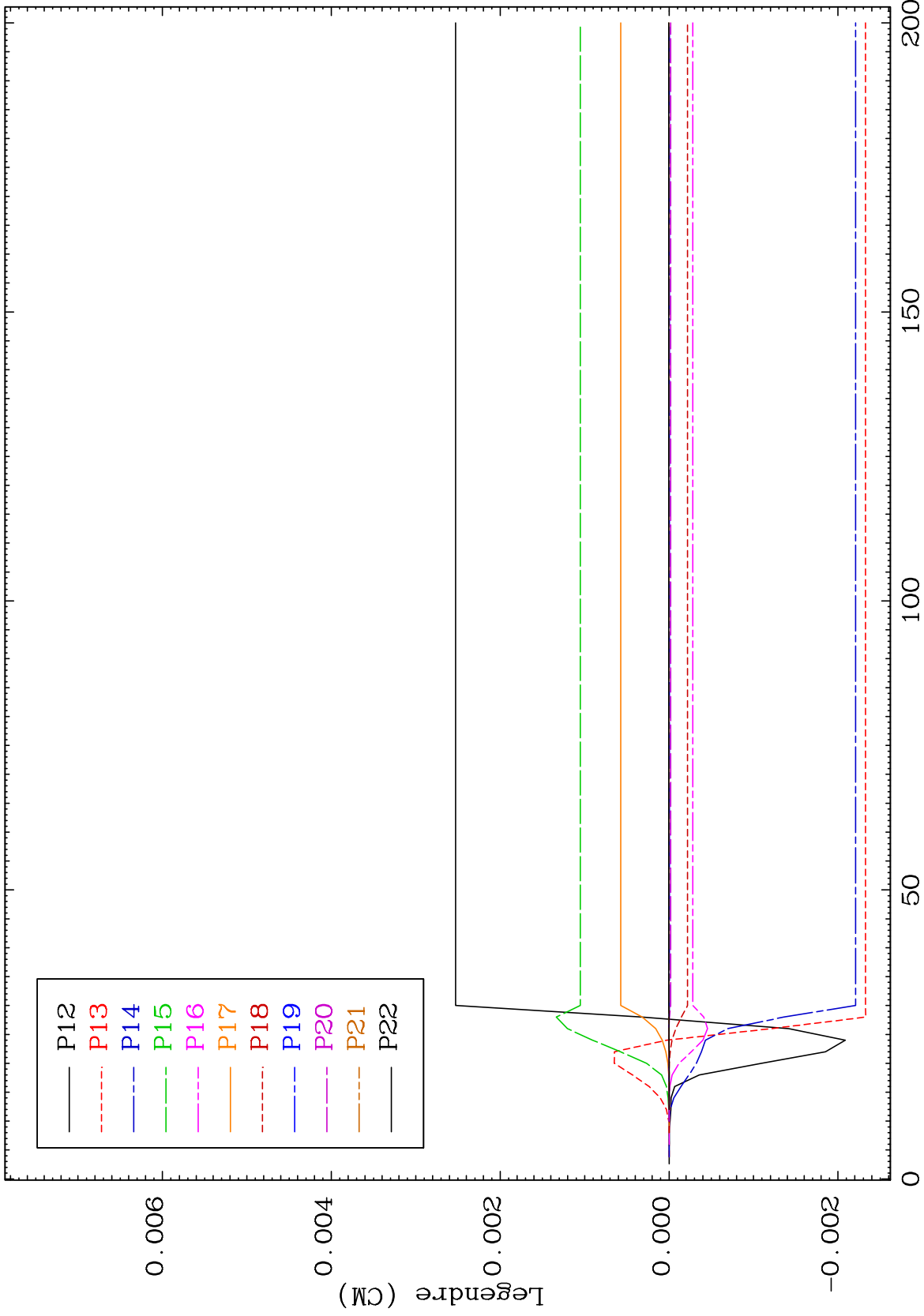
Incident Energy (MeV)

73-Ta-177

MAT 7316

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

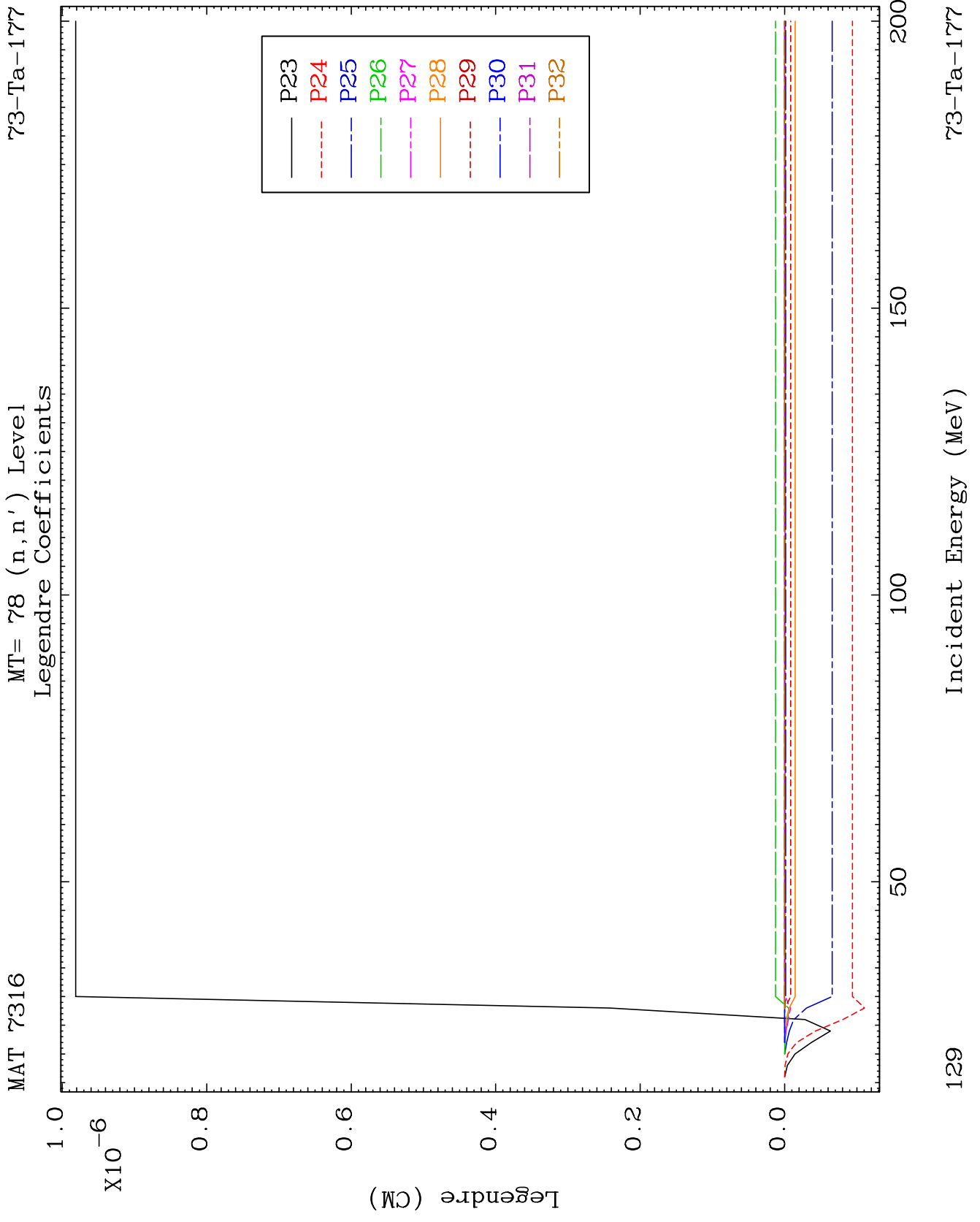
73-Ta-177

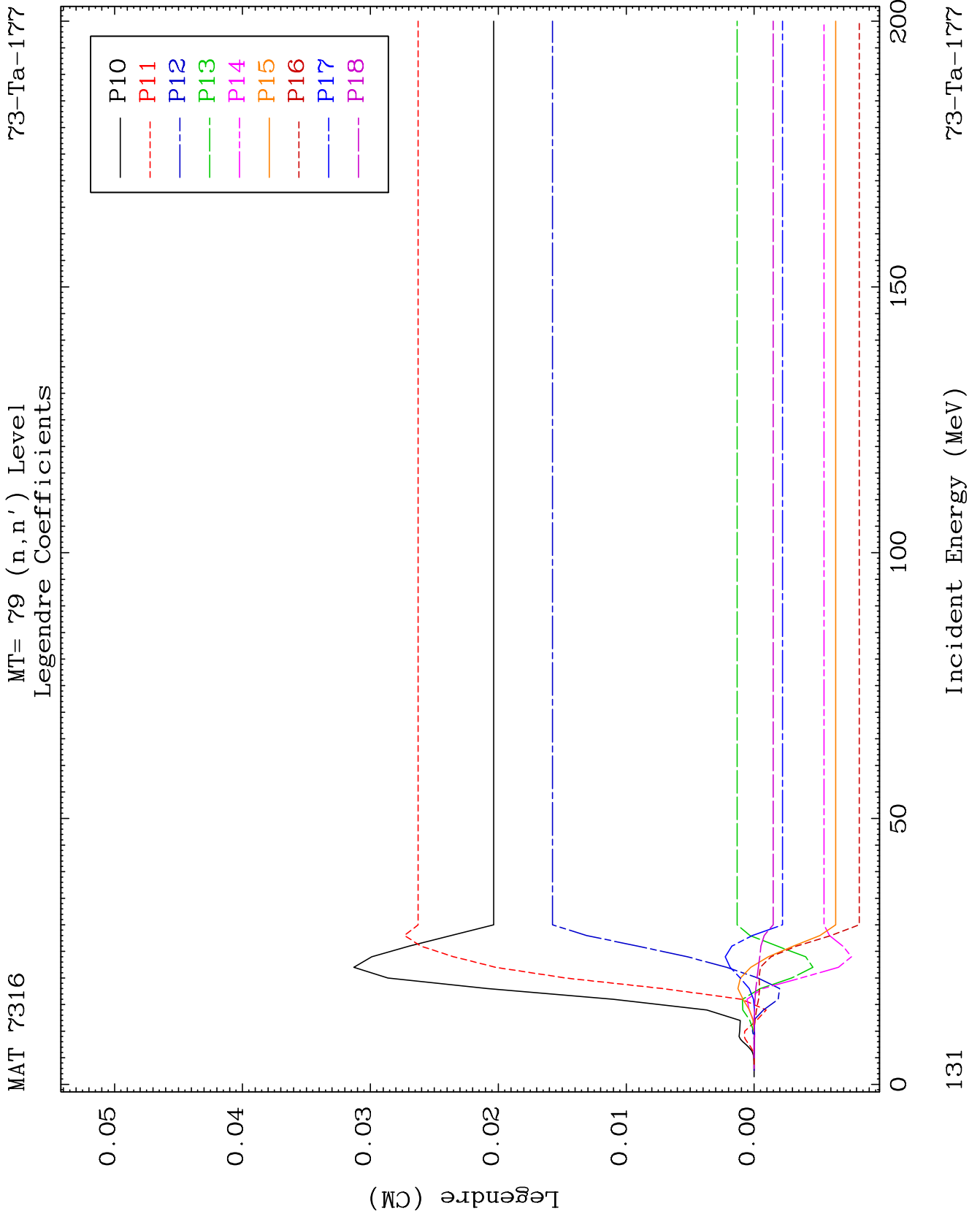


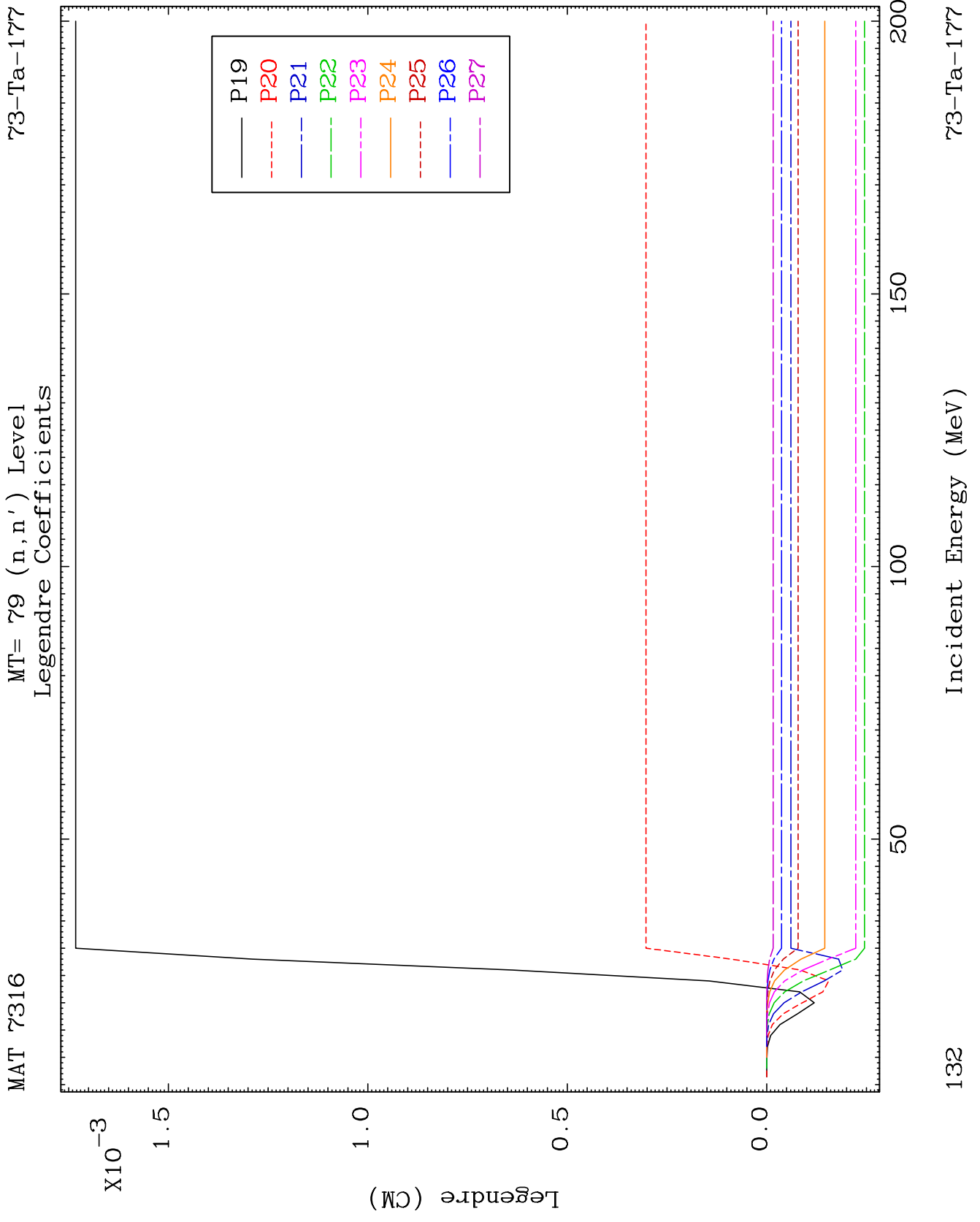
128

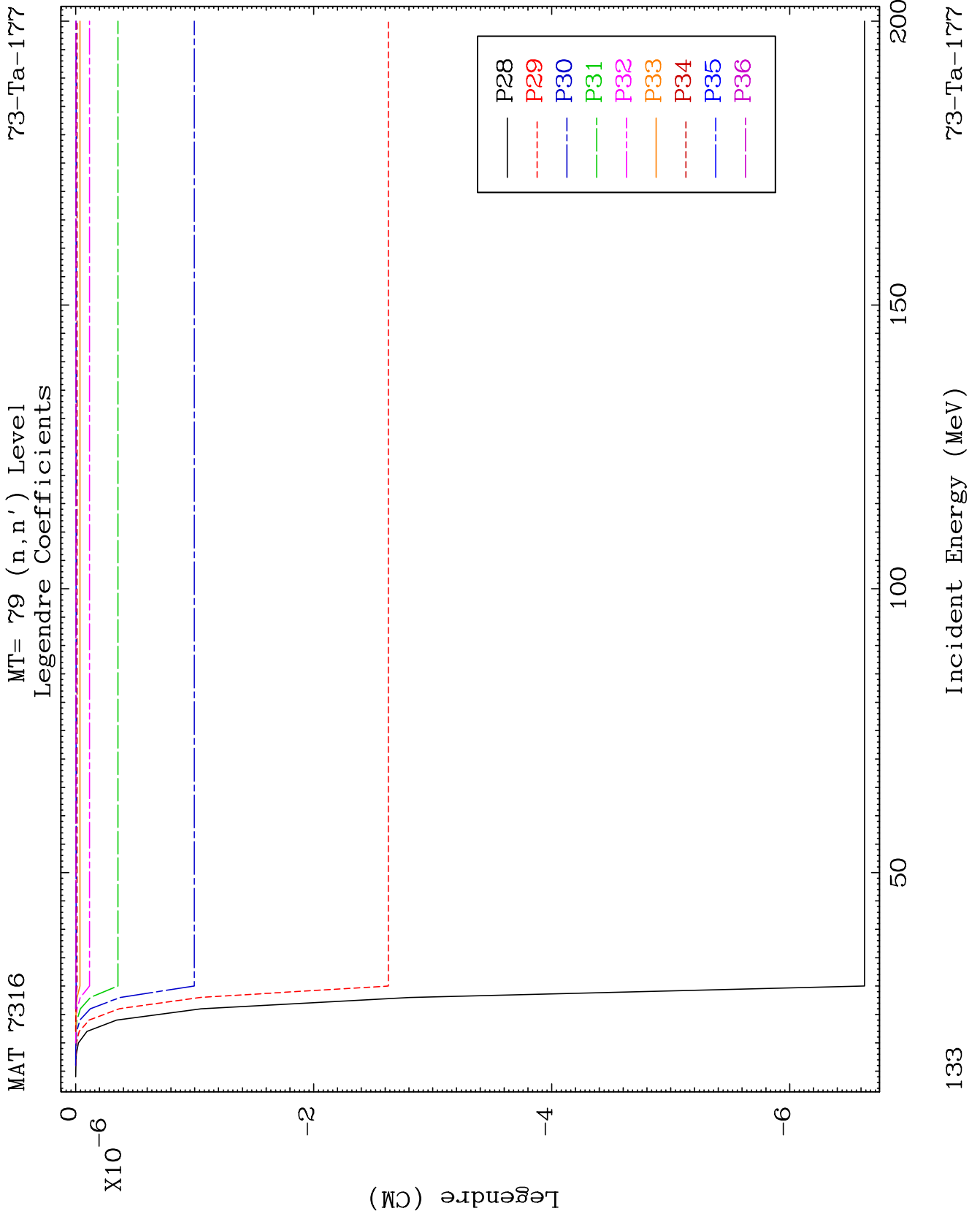
Incident Energy (MeV)

73-Ta-177







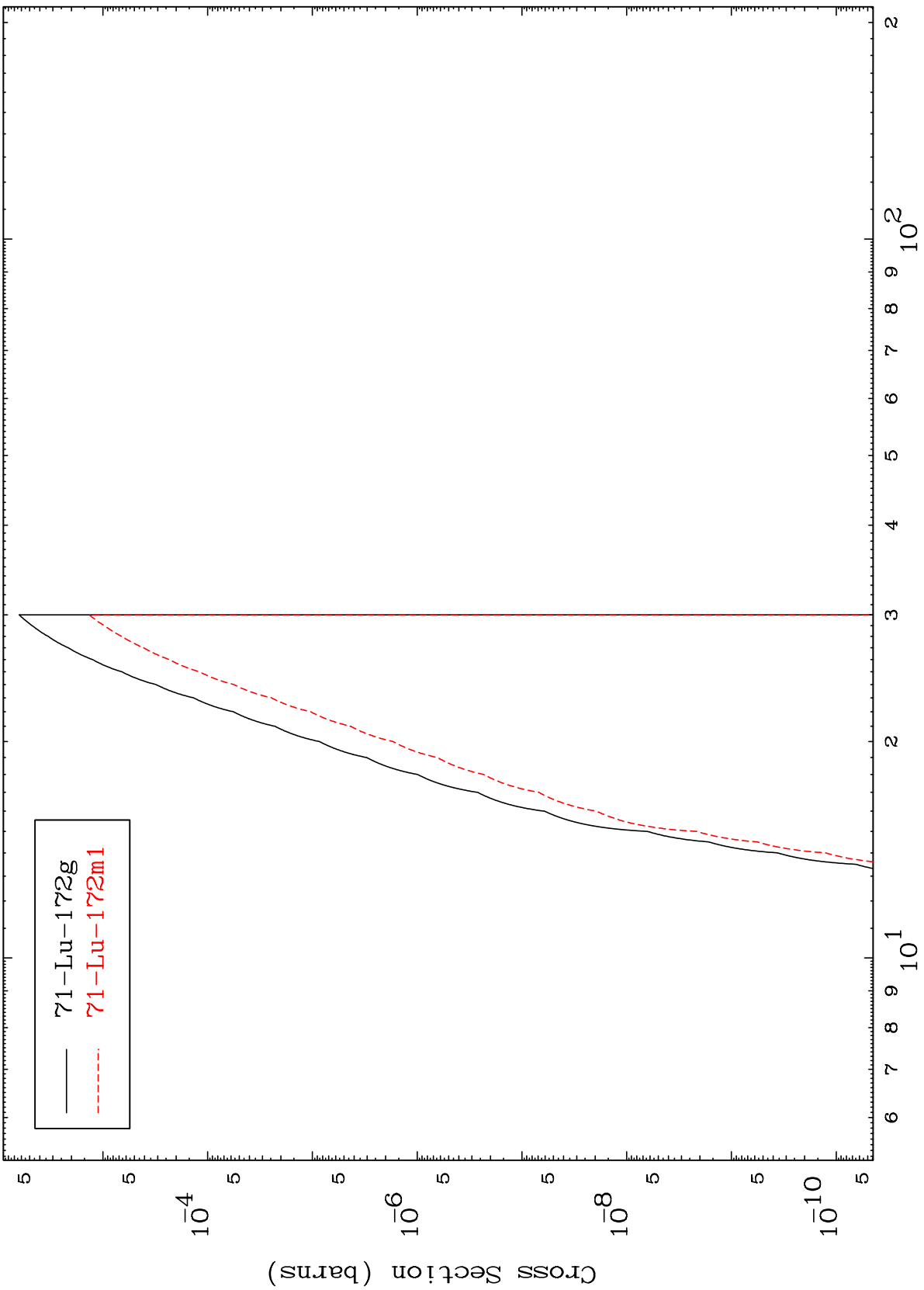


MAT 7316

$(n,2n) \alpha$

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

Radionuclide Production Cross Section



134

Incident Energy (MeV)

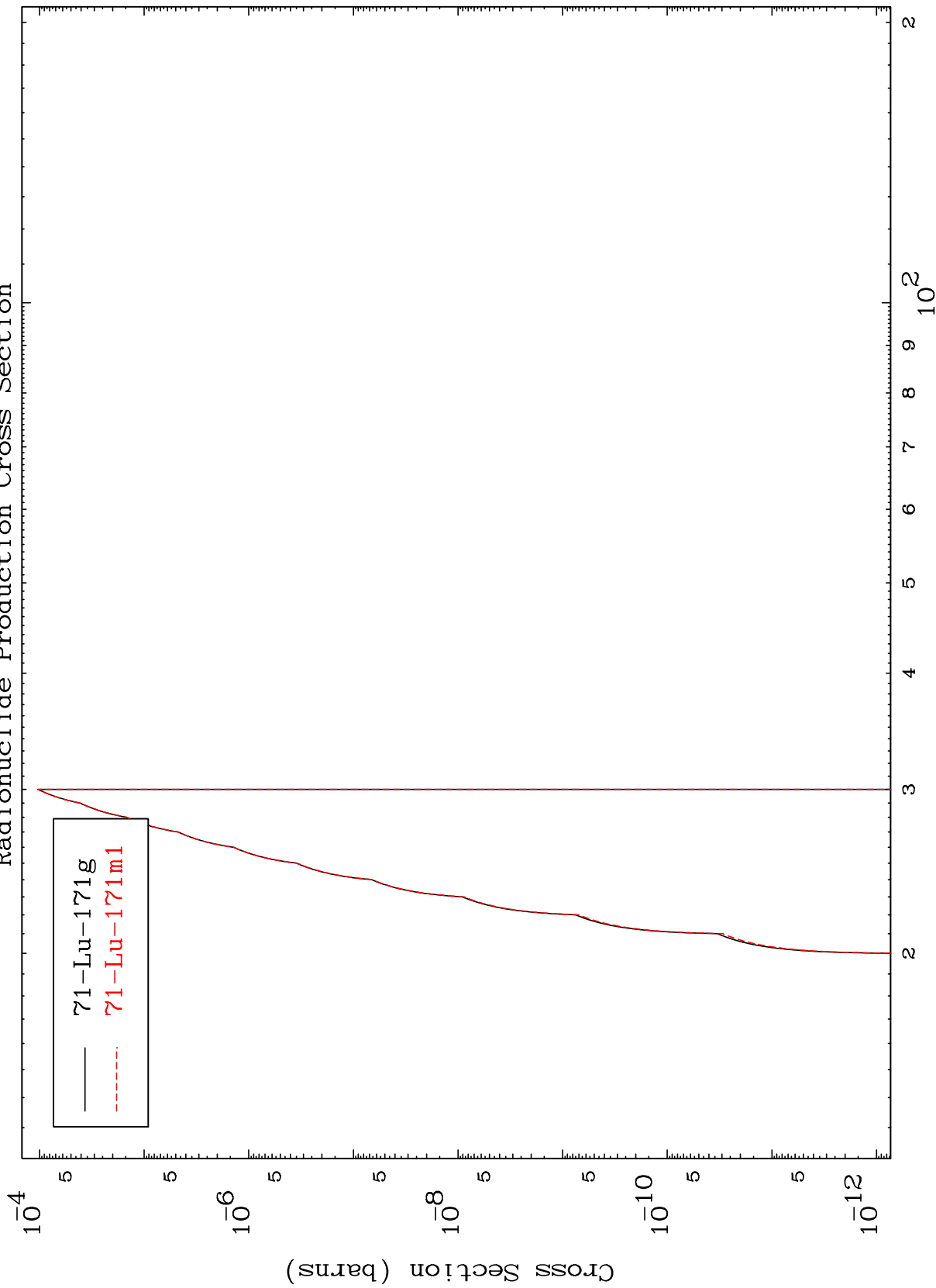
$^{73}\text{Ta}-177$

MAT 7316

(n,3n) α

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

Radionuclide Production Cross Section



Incident Energy (MeV)

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

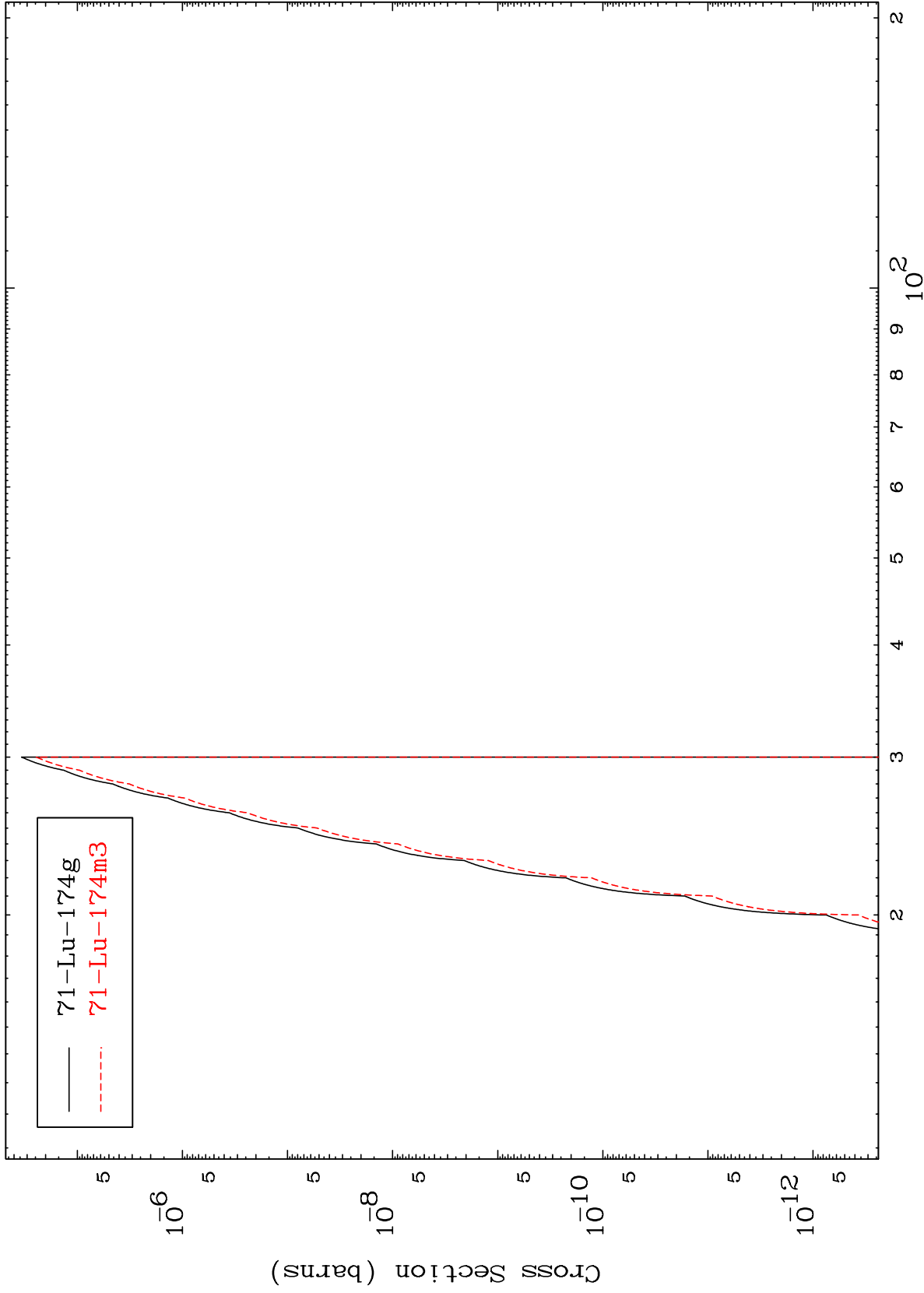
135

MAT 7316

(n,n') He-3

73-Ta-177

Radionuclide Production Cross Section



136

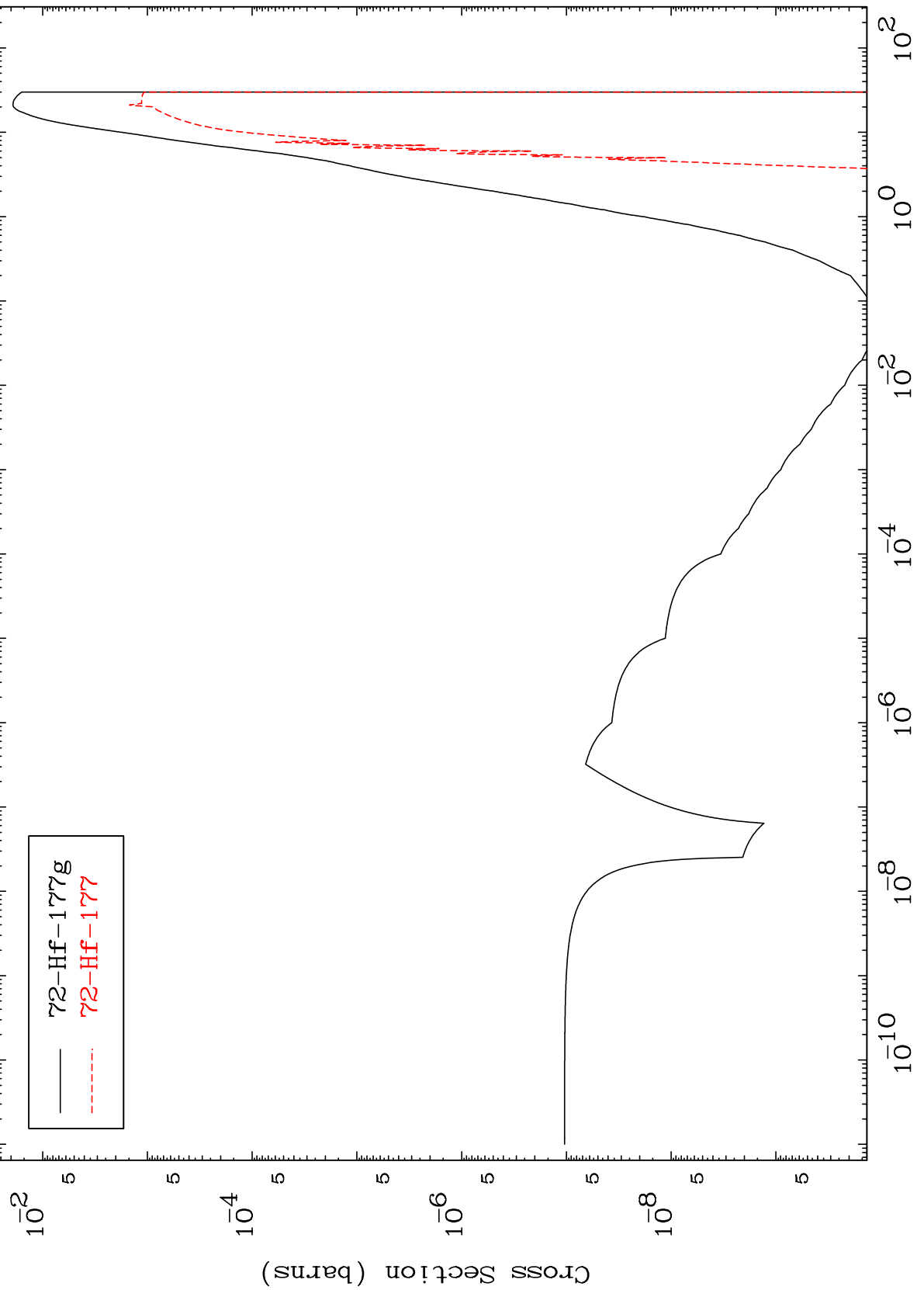
Incident Energy (MeV)

73-Ta-177

MAT 7316

(n,p)
Radionuclide Production Cross Section

⁷³Ta-177



137

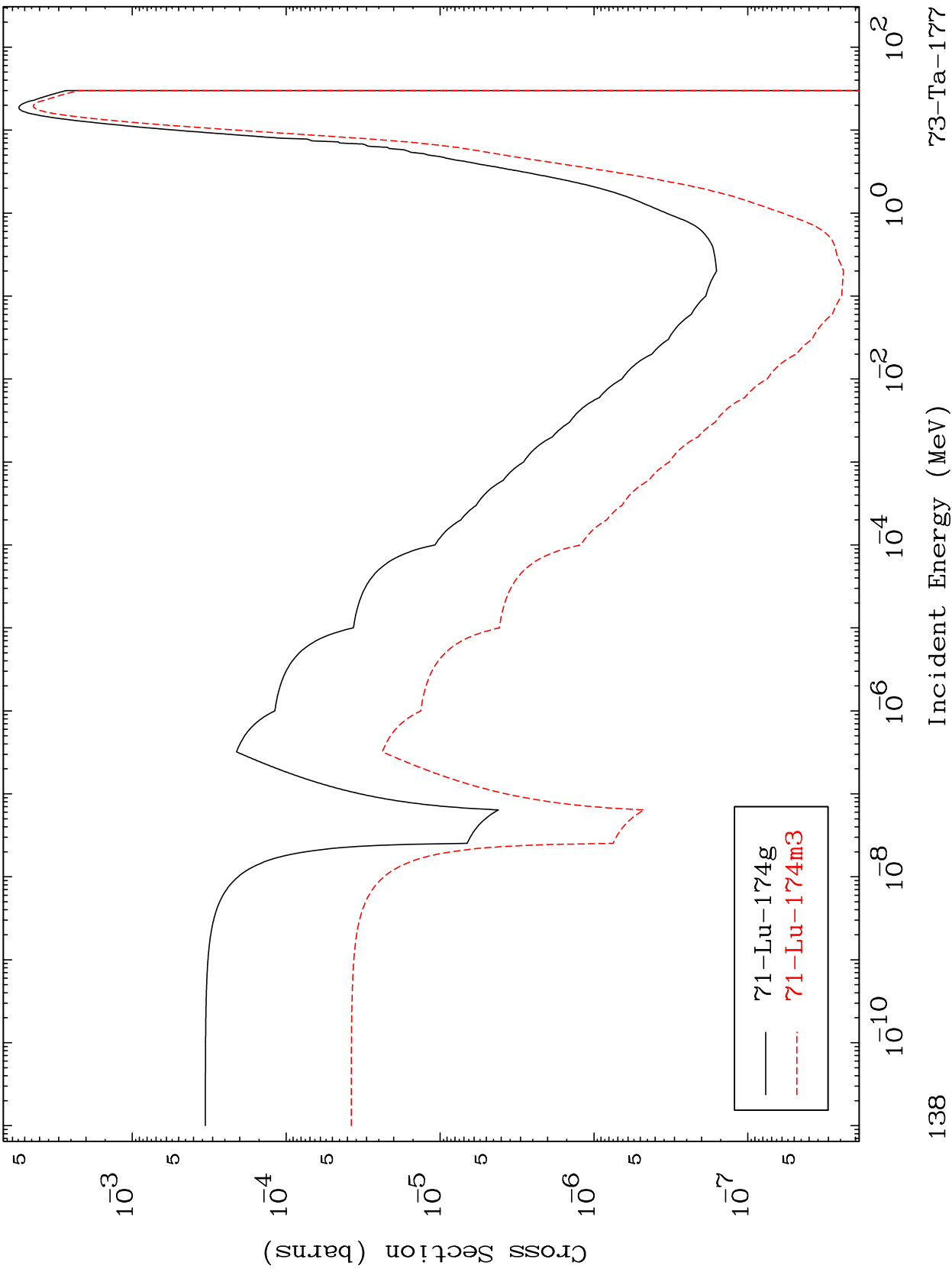
⁷³Ta-177

MAT 7316

(n, α)

⁷³Ta-177

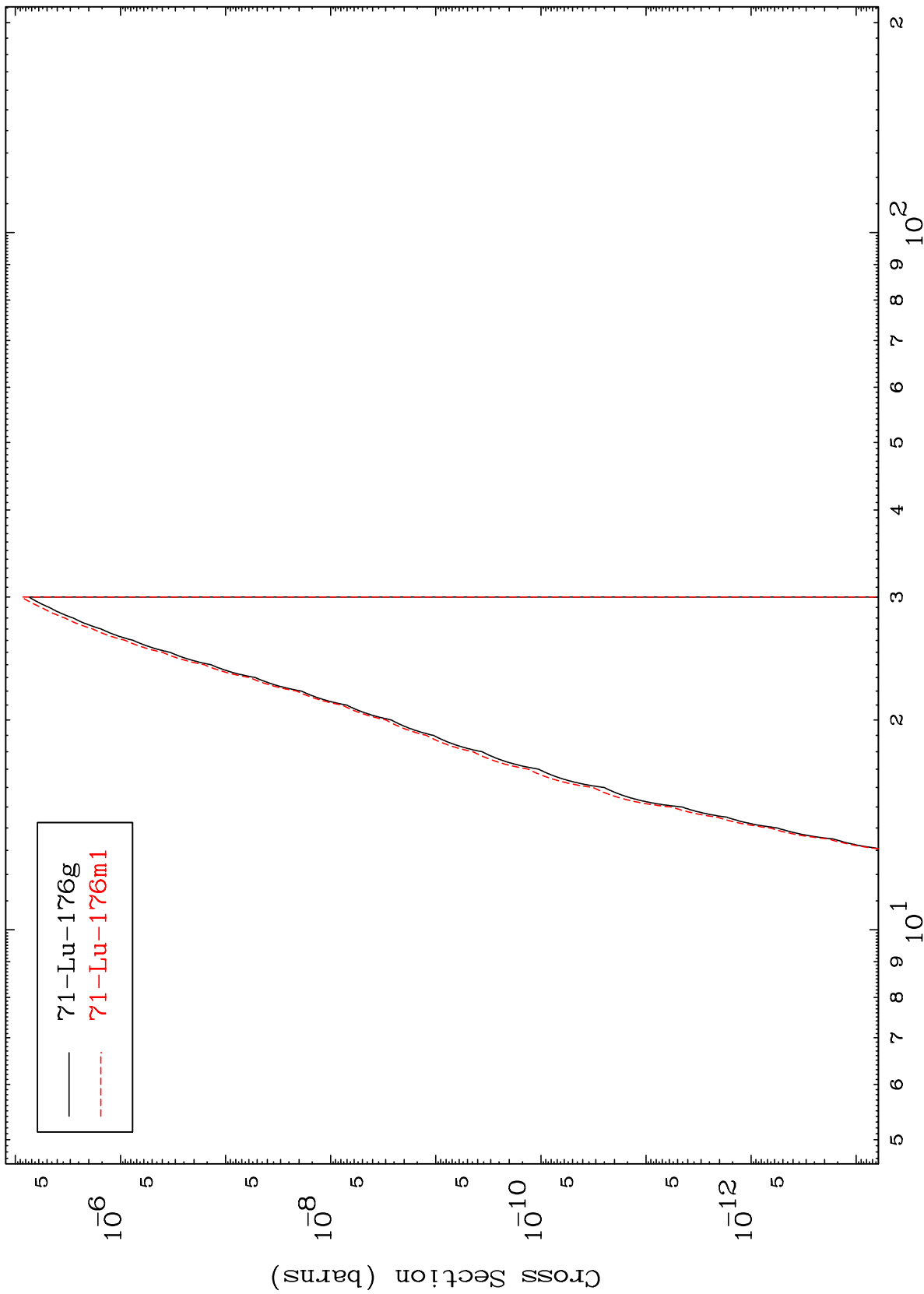
Radionuclide Production Cross Section



MAT 7316

73-Ta-177

(n,2p)
Radionuclide Production Cross Section



71-Lu-176g
71-Lu-176m1

73-Ta-177

Incident Energy (MeV)

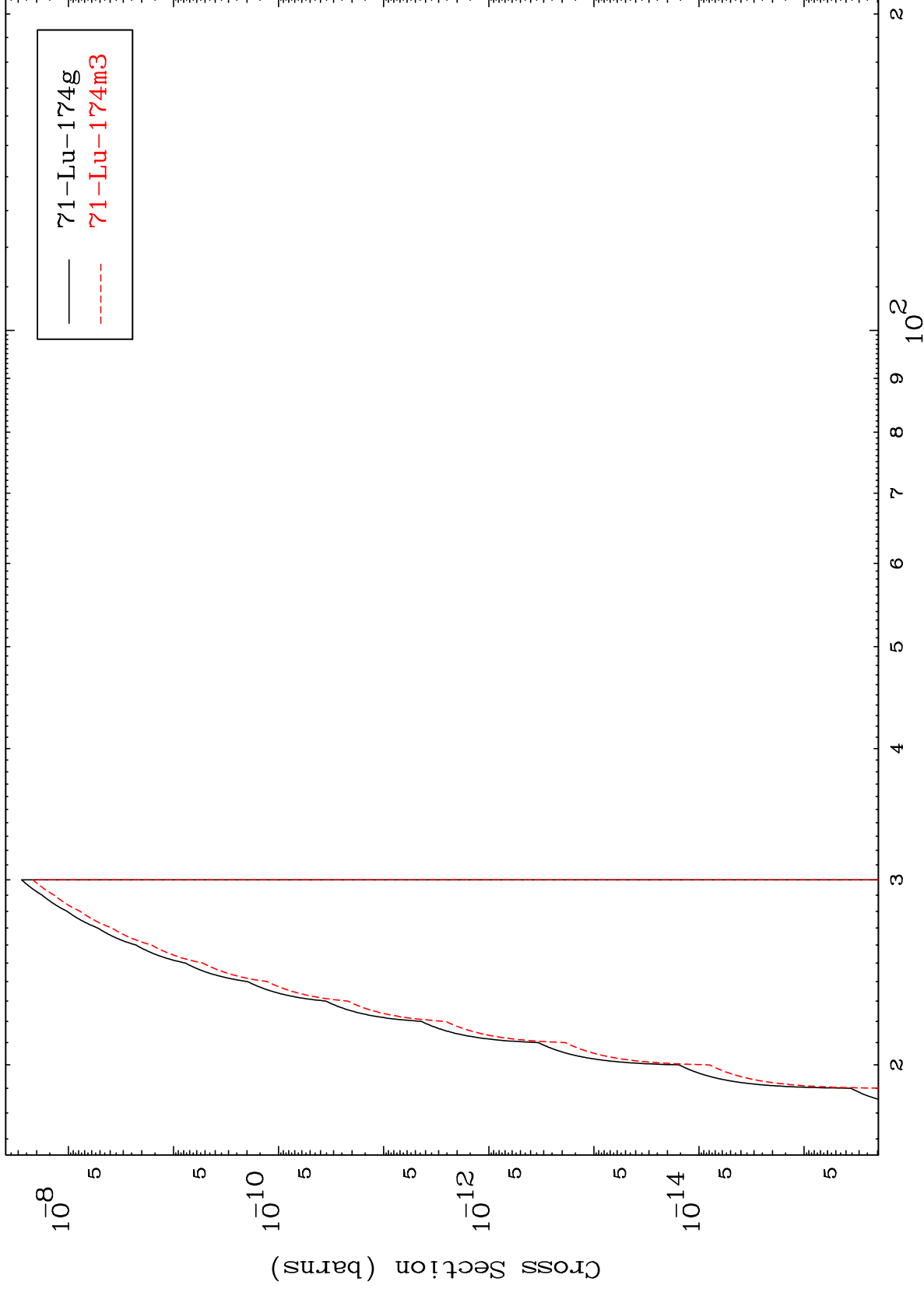
139

MAT 7316

(n,p) t

⁷³Ta-177

Radionuclide Production Cross Section



140

Incident Energy (MeV)

⁷³Ta-177