

Program EVALPLOT
(Version 2015-2)

by

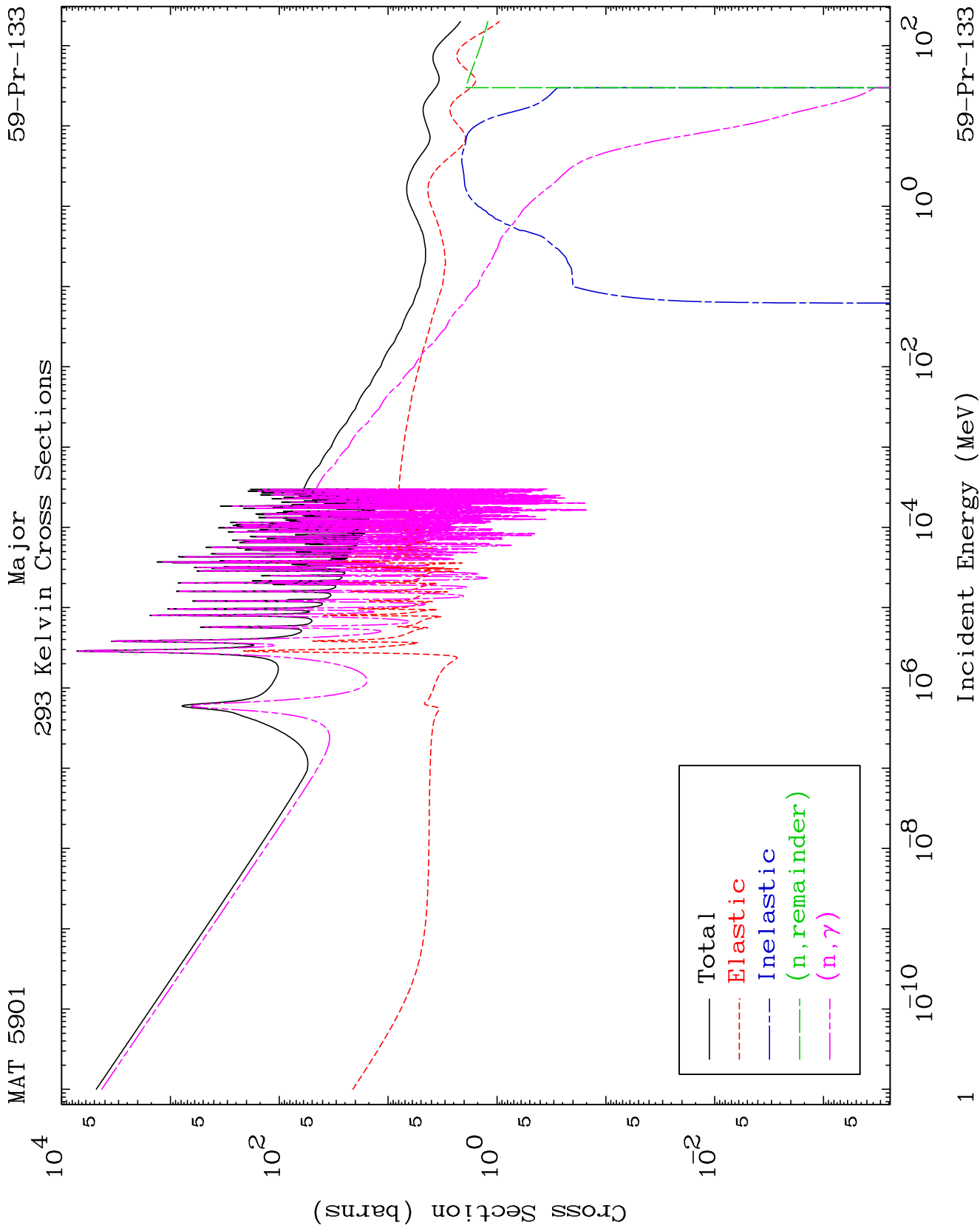
Dermott E. Cullen
(Present Contact Information)

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E.Mail:redcullen1@comcast.net
Web:home.comcast.net/~redcullen1

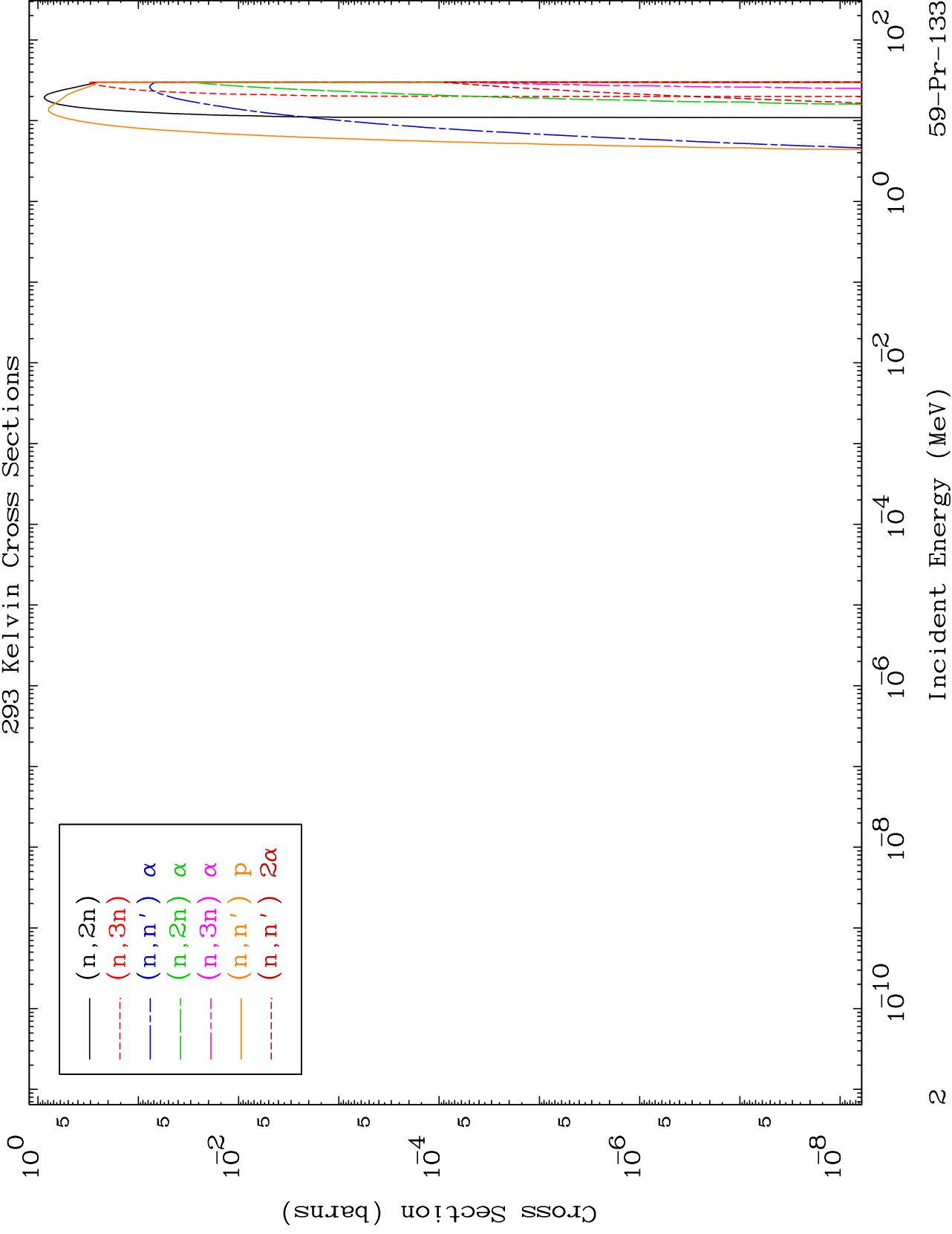
Press Mouse Button to Start

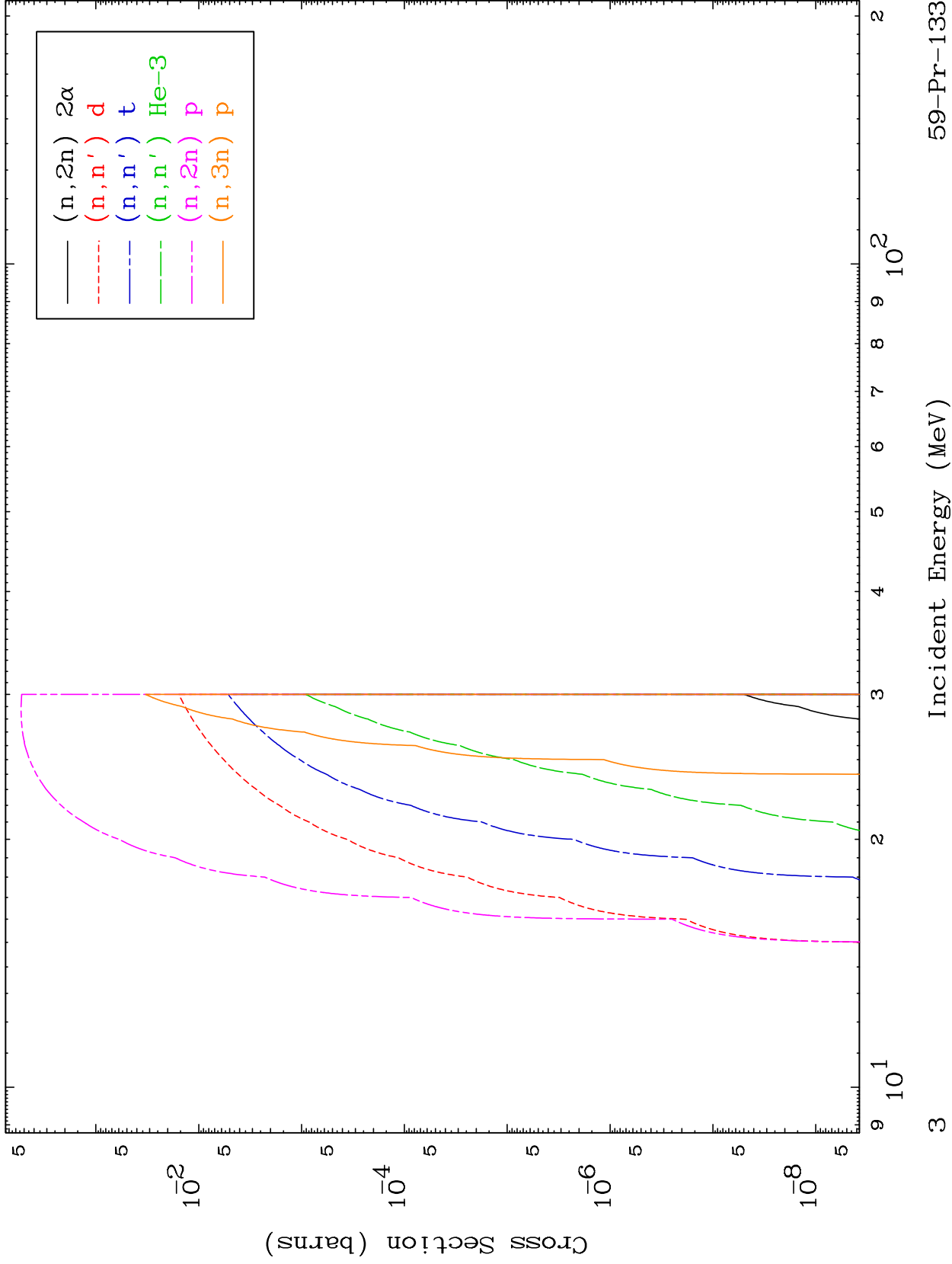


MAT 5901

Neutron Production
293 Kelvin Cross Sections

59-Pr-133

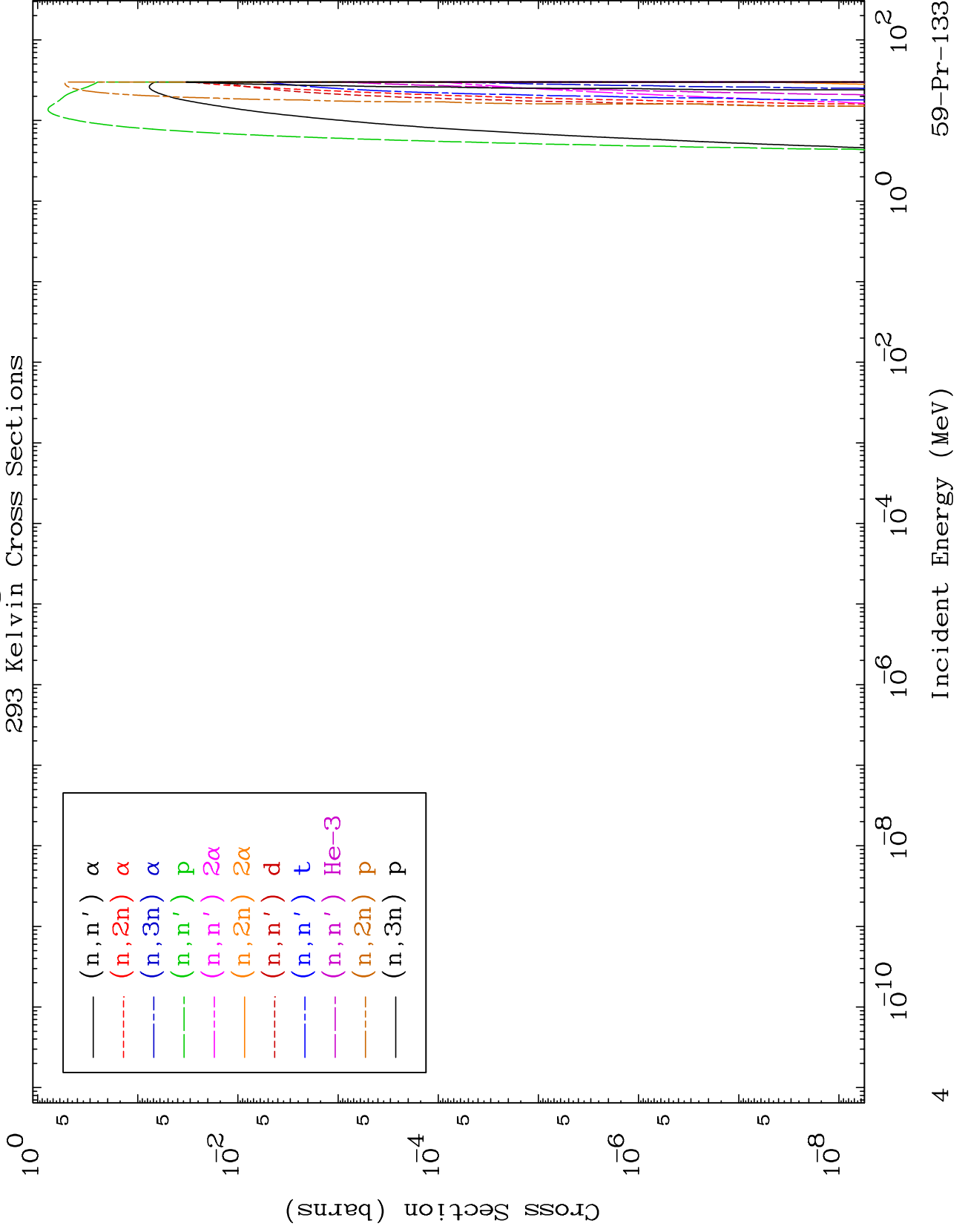




MAT 5901

Charged Particle
293 Kelvin Cross Sections

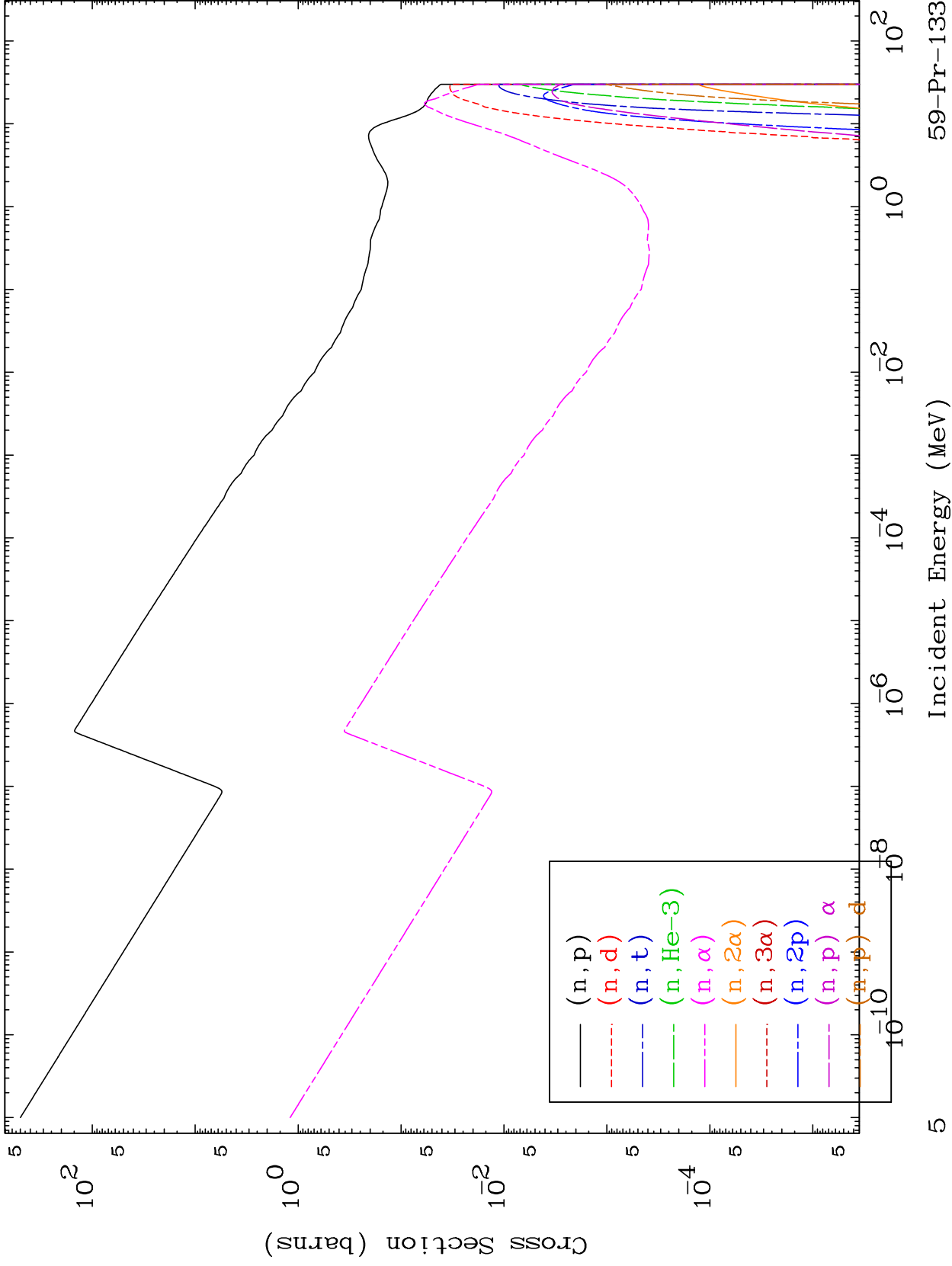
59-Pr-133

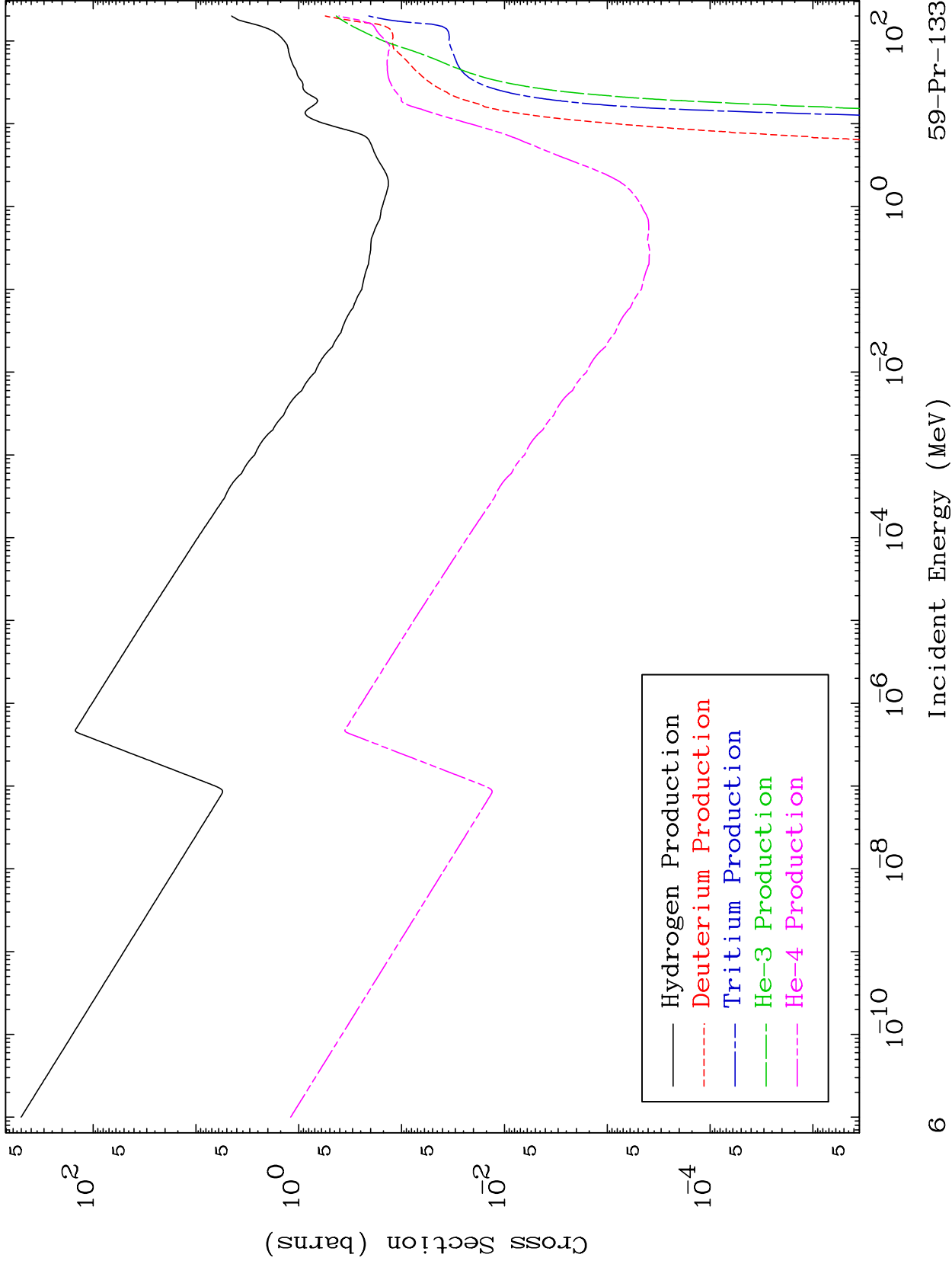


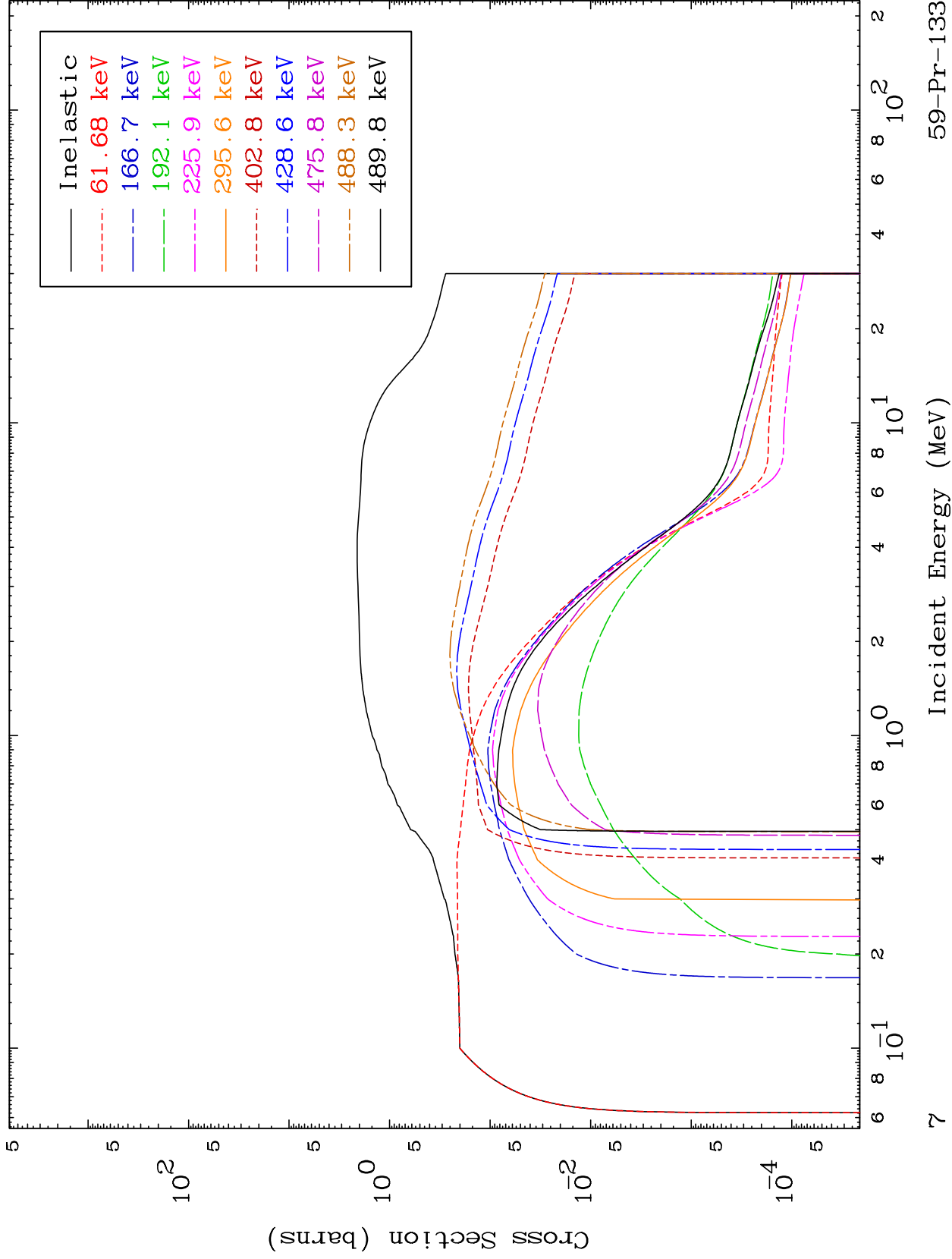
MAT 5901

Charged Particle
293 Kelvin Cross Sections

59-Pr-133



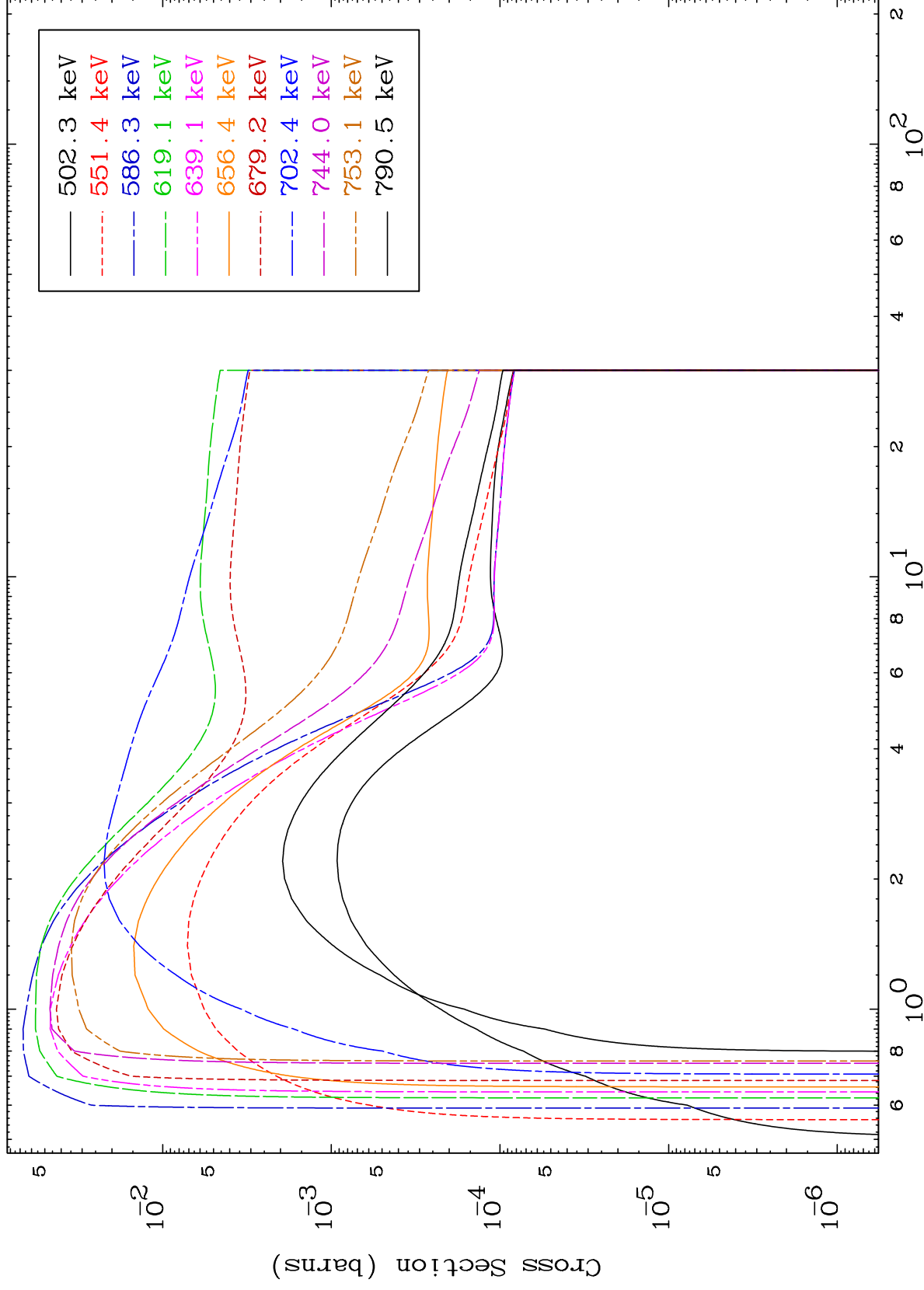




MAT 5901

(n,n') Level
293 Kelvin Cross Sections

59-Pr-133

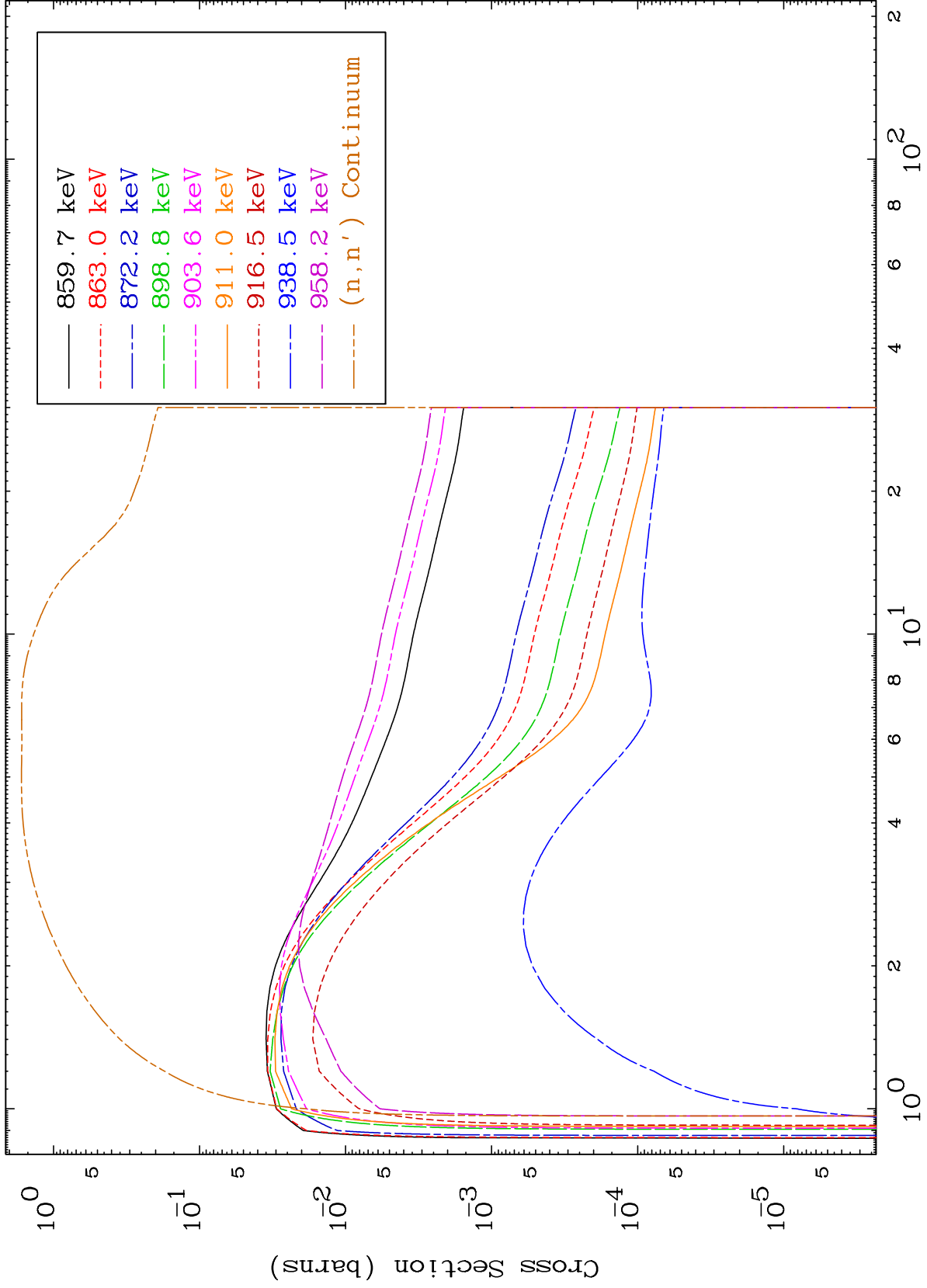


8

Incident Energy (MeV)

59-Pr-133

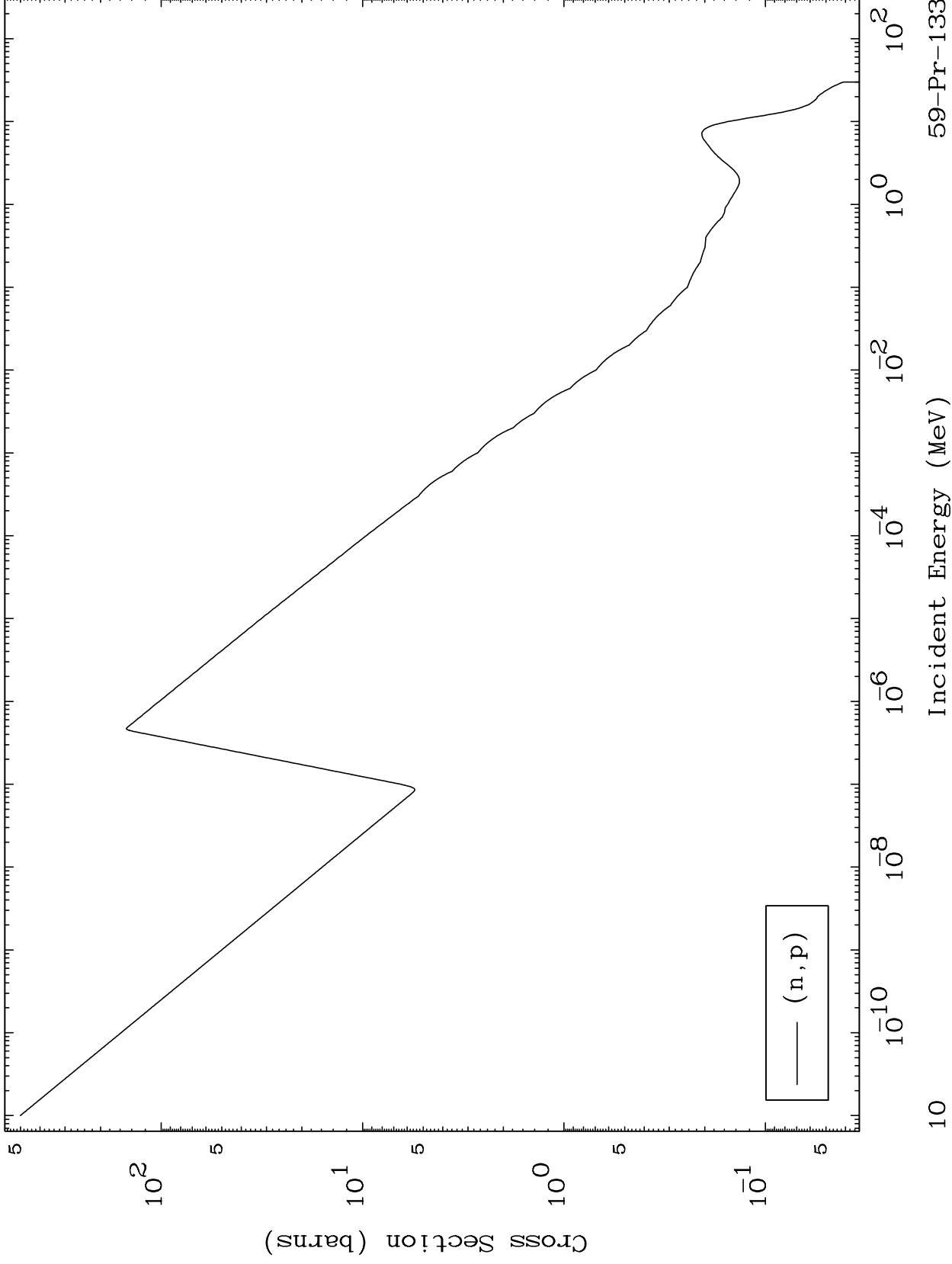
293 Kelvin Cross Sections



MAT 5901

(n,p) Levels
293 Kelvin Cross Sections

59-Pr-133



10

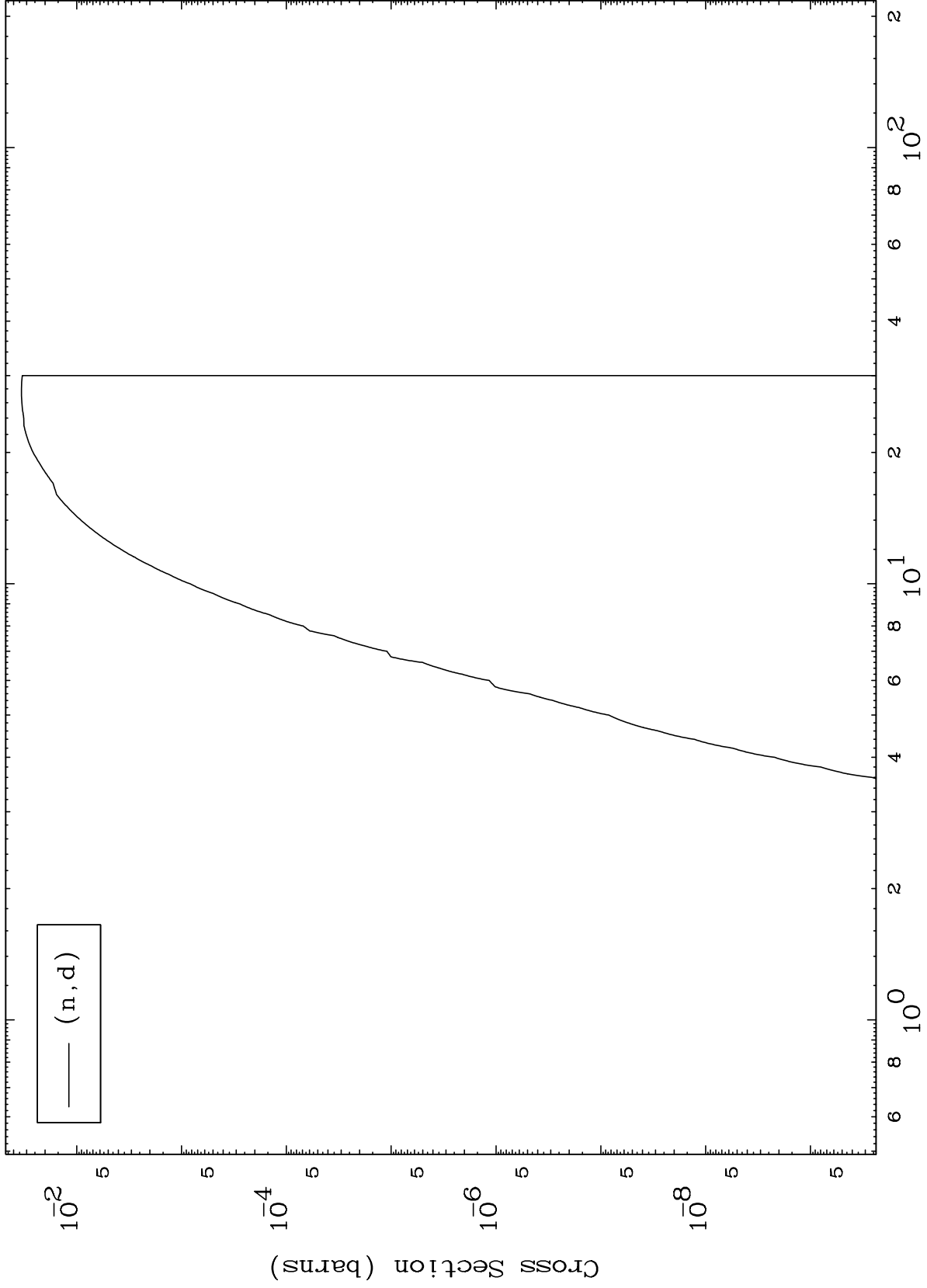
Incident Energy (MeV)

59-Pr-133

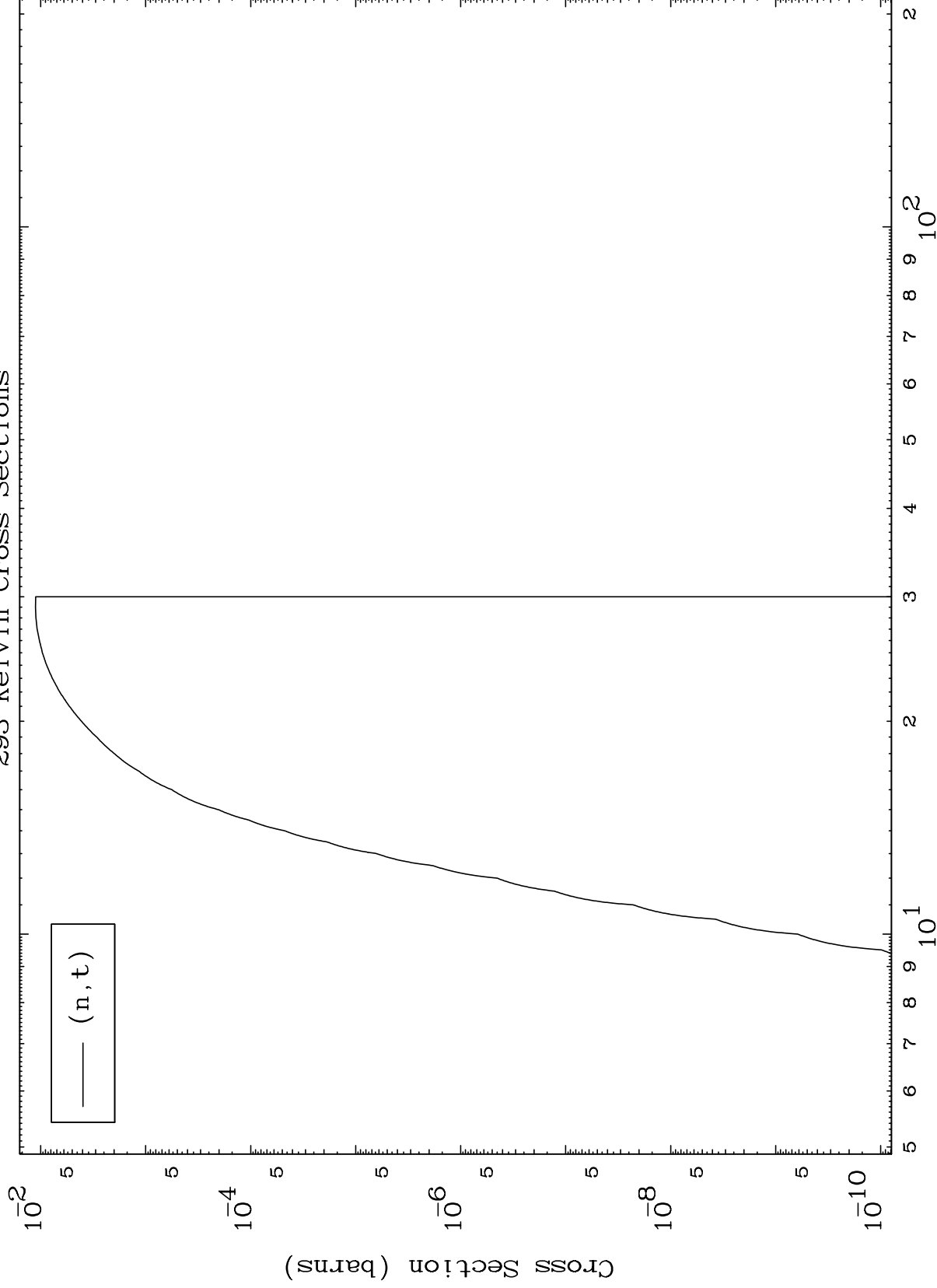
MAT 5901

(n,d) Levels
293 Kelvin Cross Sections

59-Pr-133



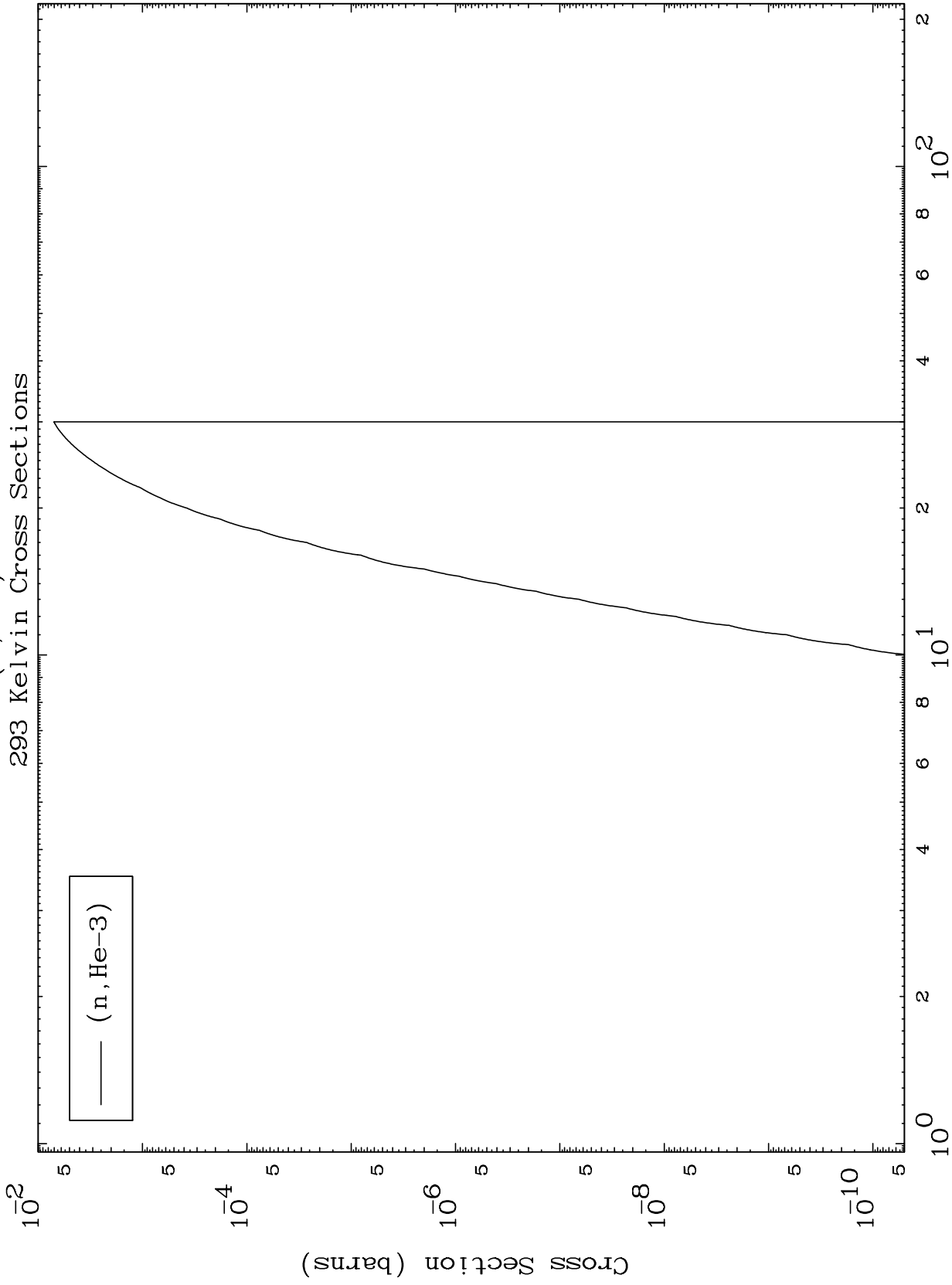
(n,t) Levels
293 Kelvin Cross Sections



MAT 5901

(n,He3) Levels
293 Kelvin Cross Sections

59-Pr-133



13

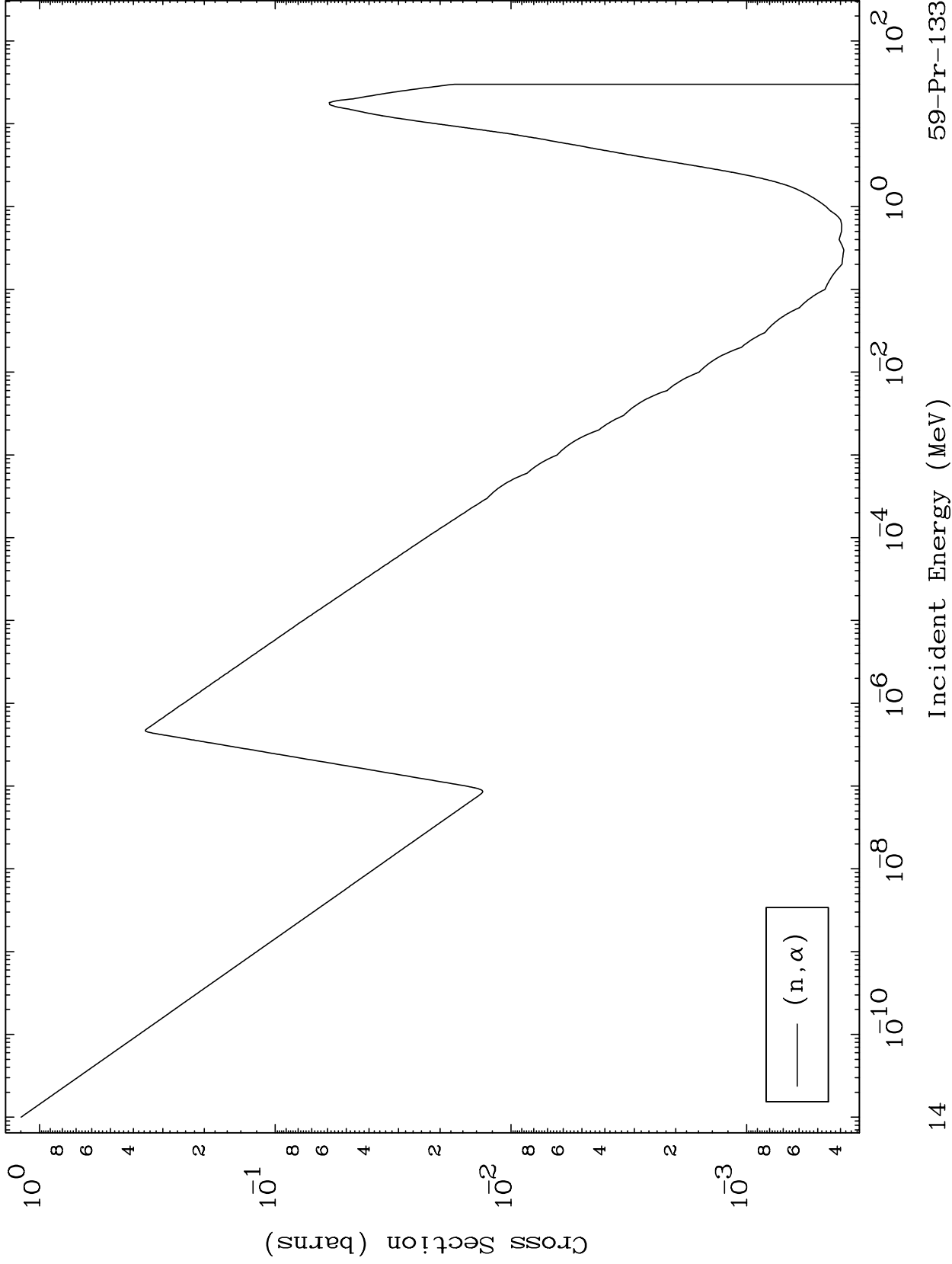
Incident Energy (MeV)

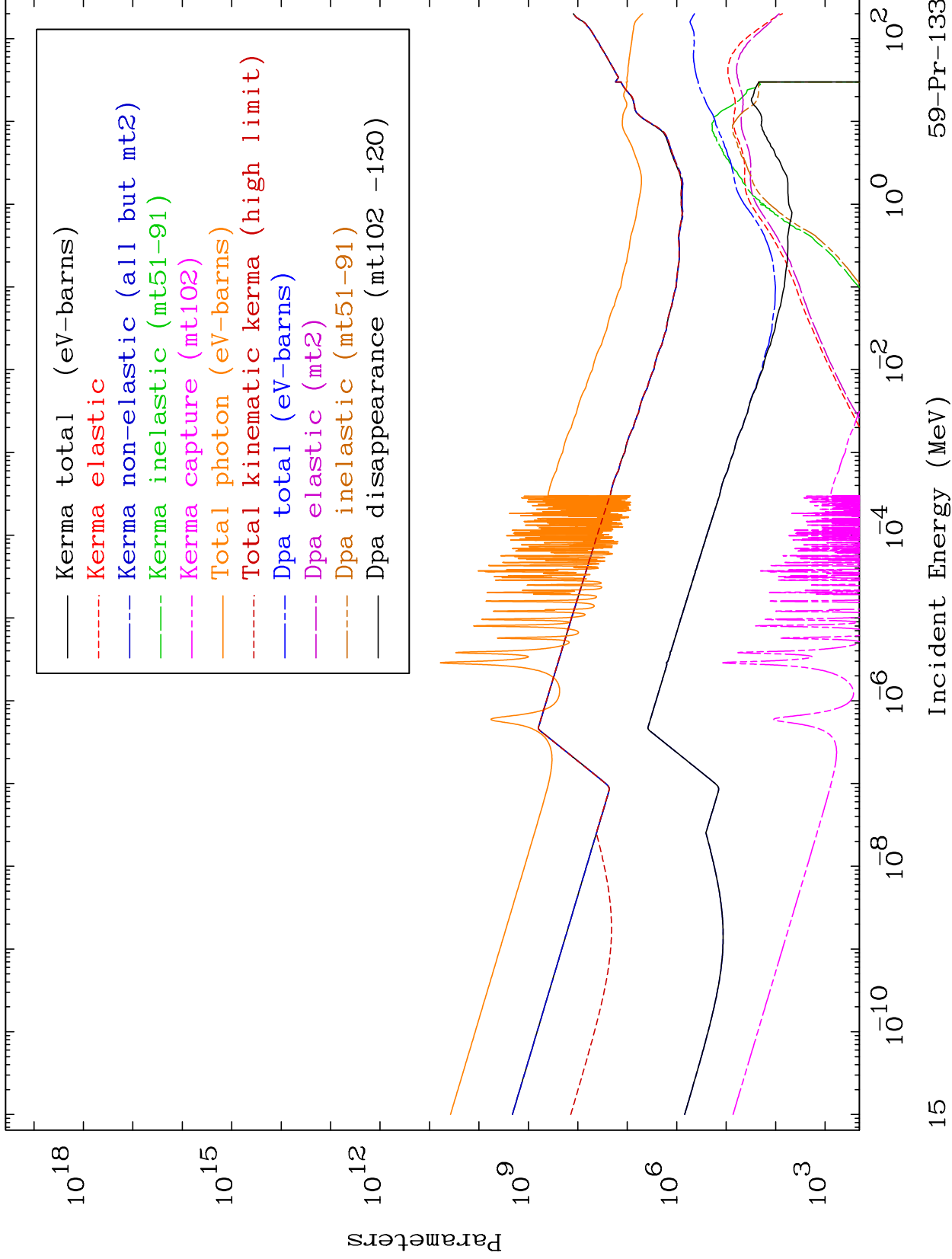
59-Pr-133

MAT 5901

(n,α) Levels
293 Kelvin Cross Sections

59-Pr-133

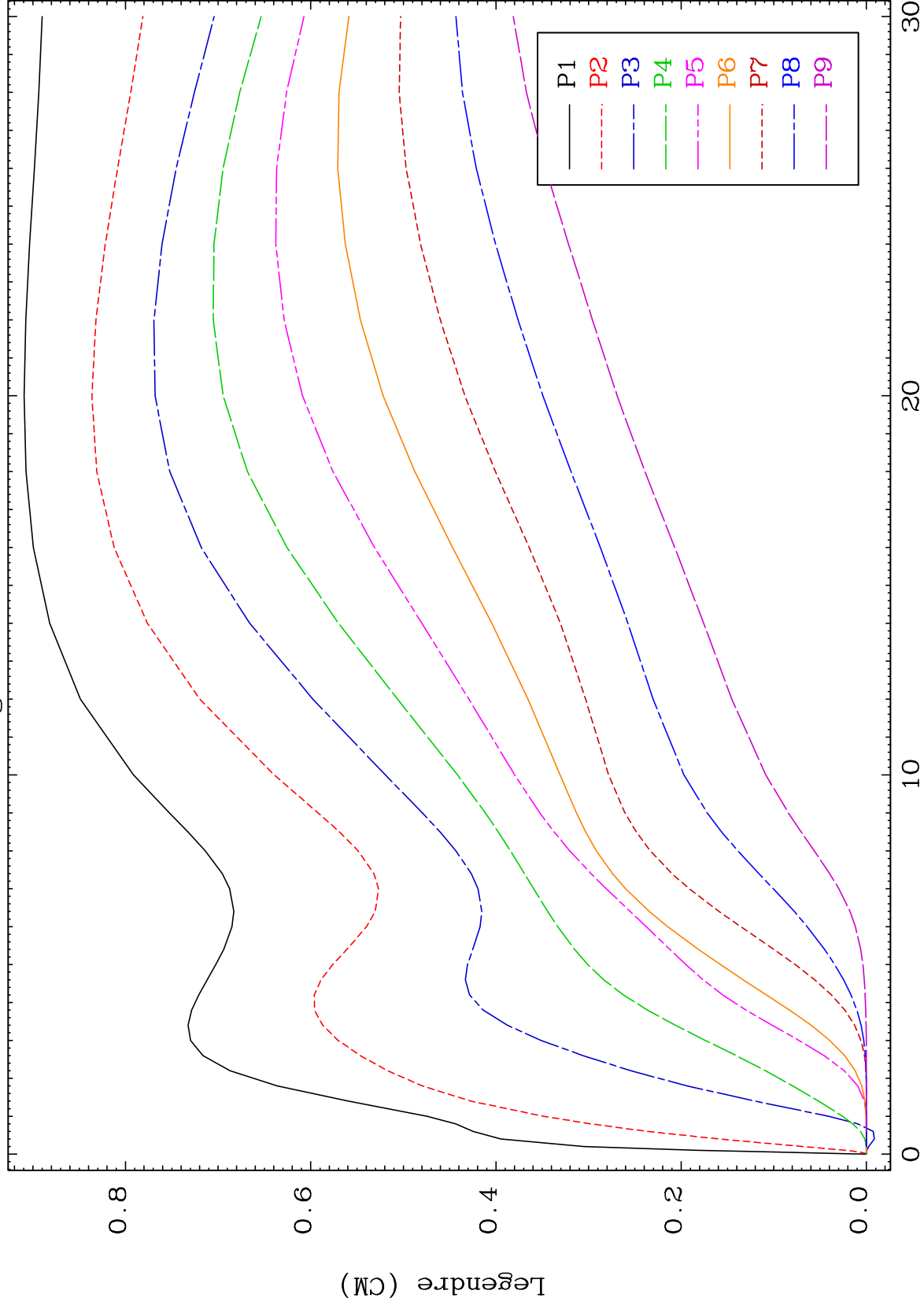




MAT 5901

Elastic Legendre Coefficients

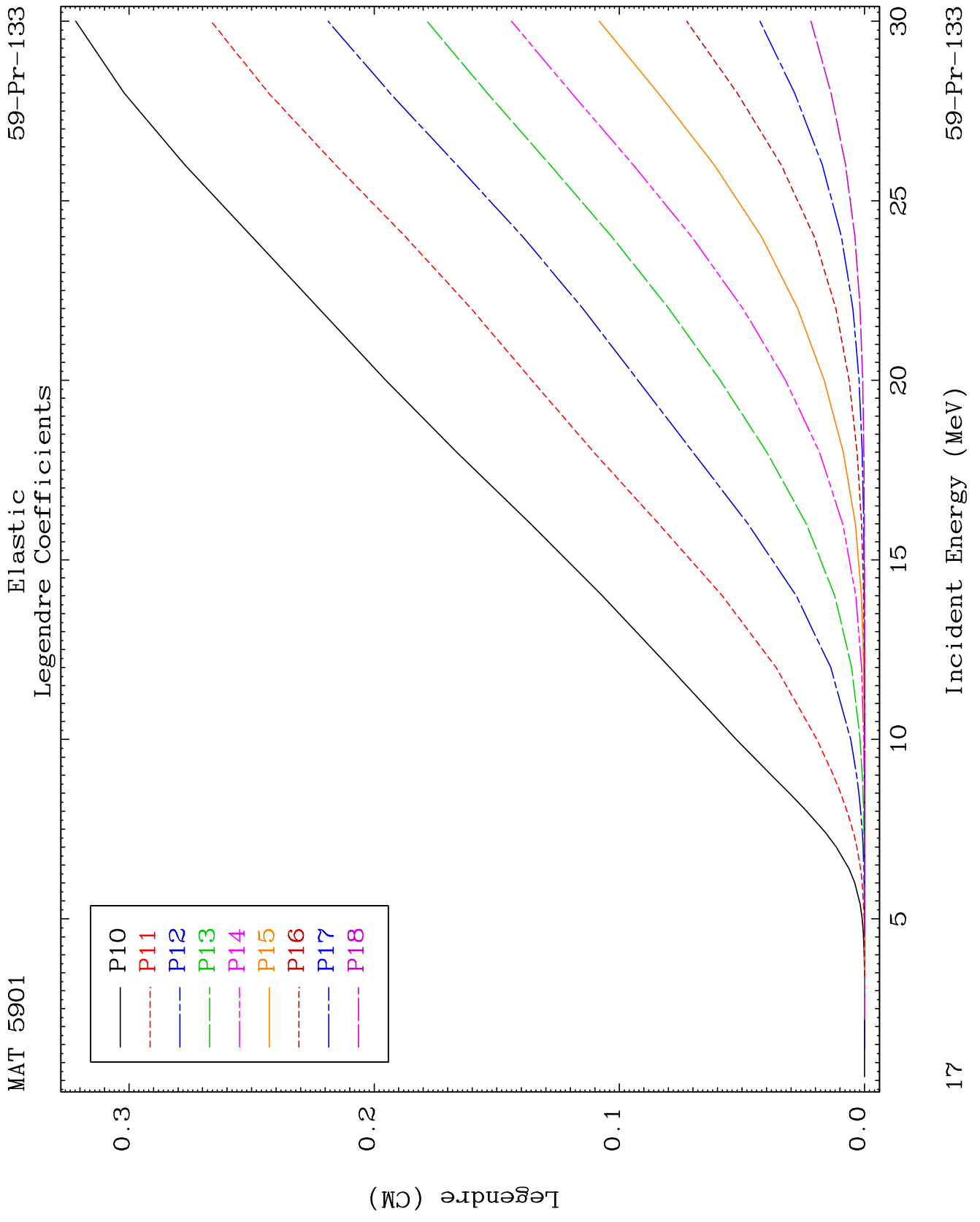
59-Pr-133



16

Incident Energy (MeV)

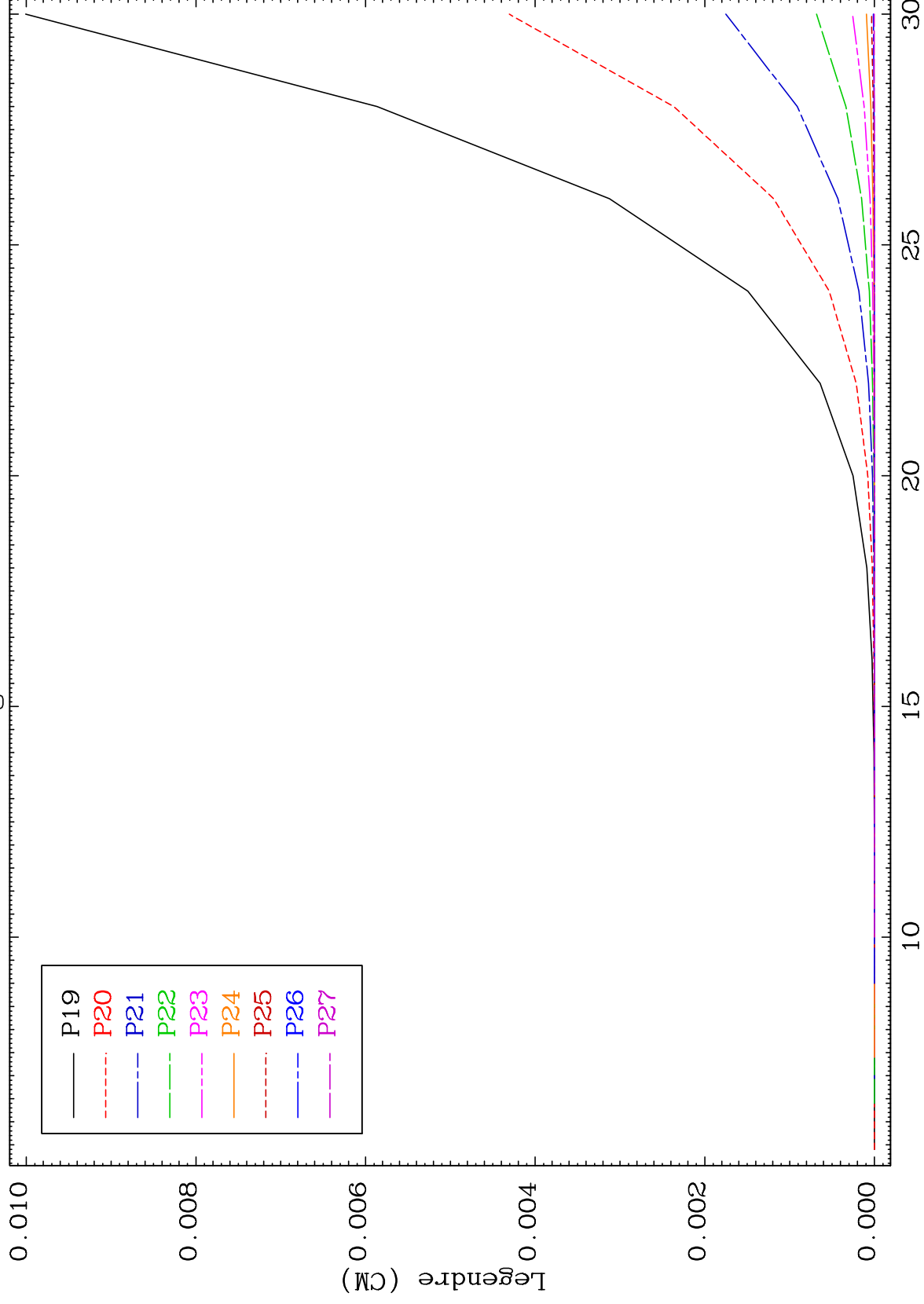
59-Pr-133



MAT 5901

Elastic
Legendre Coefficients

59-Pr-133



18

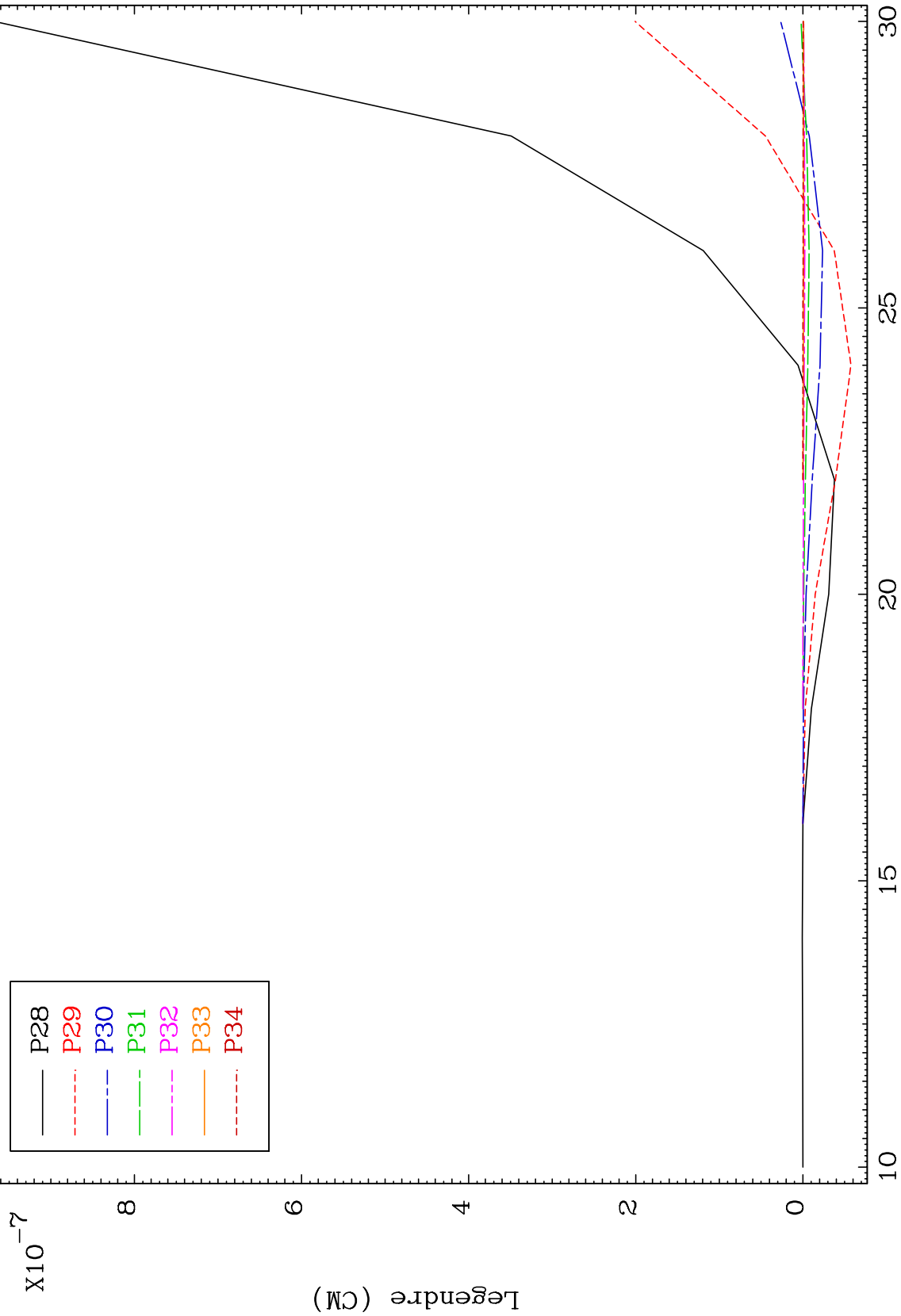
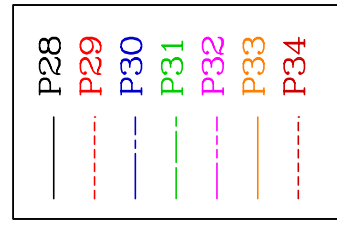
Incident Energy (MeV)

59-Pr-133

MAT 5901

Elastic
Legendre Coefficients

59-Pr-133



10

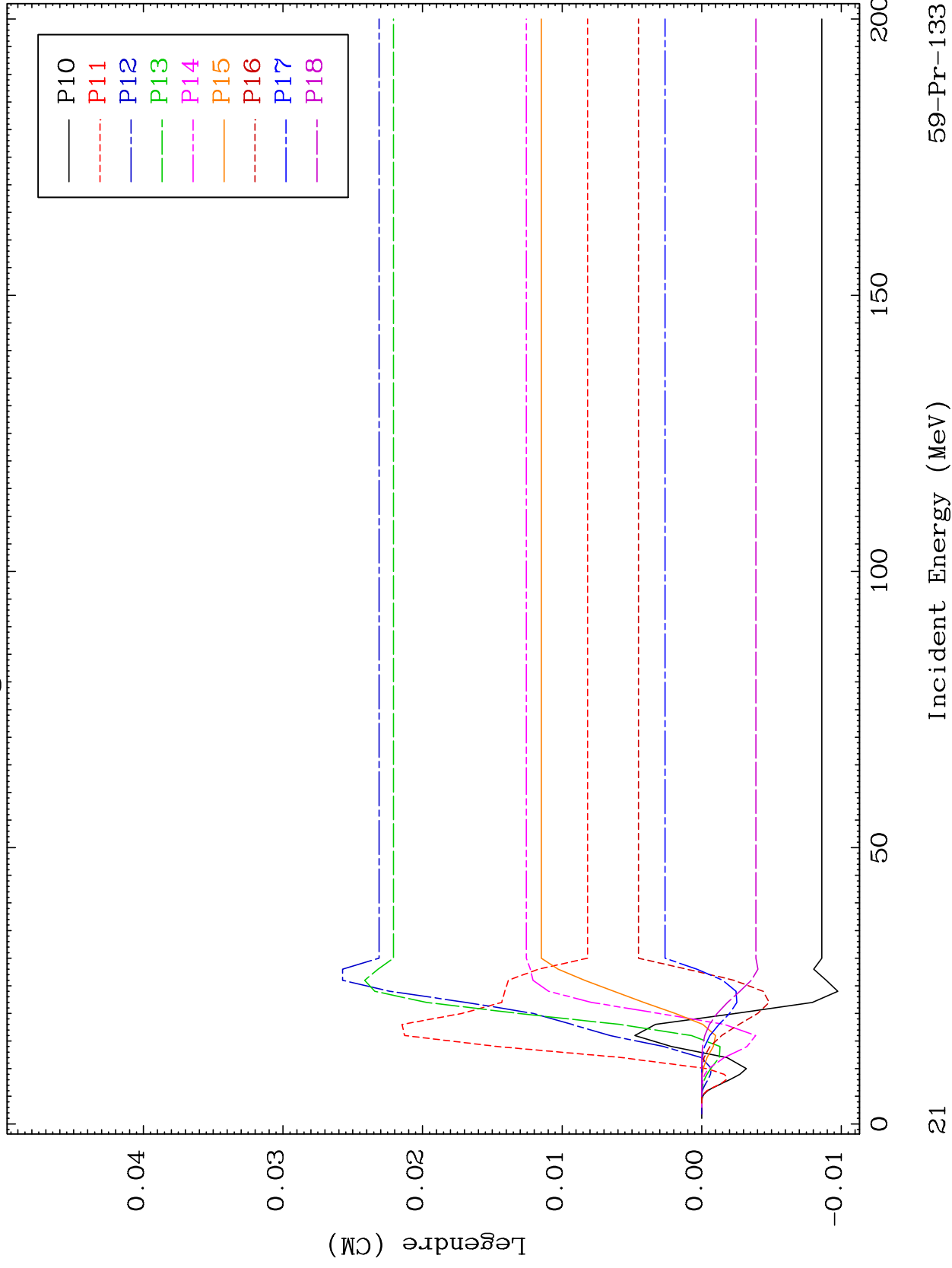
Incident Energy (MeV)

59-Pr-133

MAT 5901

61.68 keV (n,n') Level
Legendre Coefficients

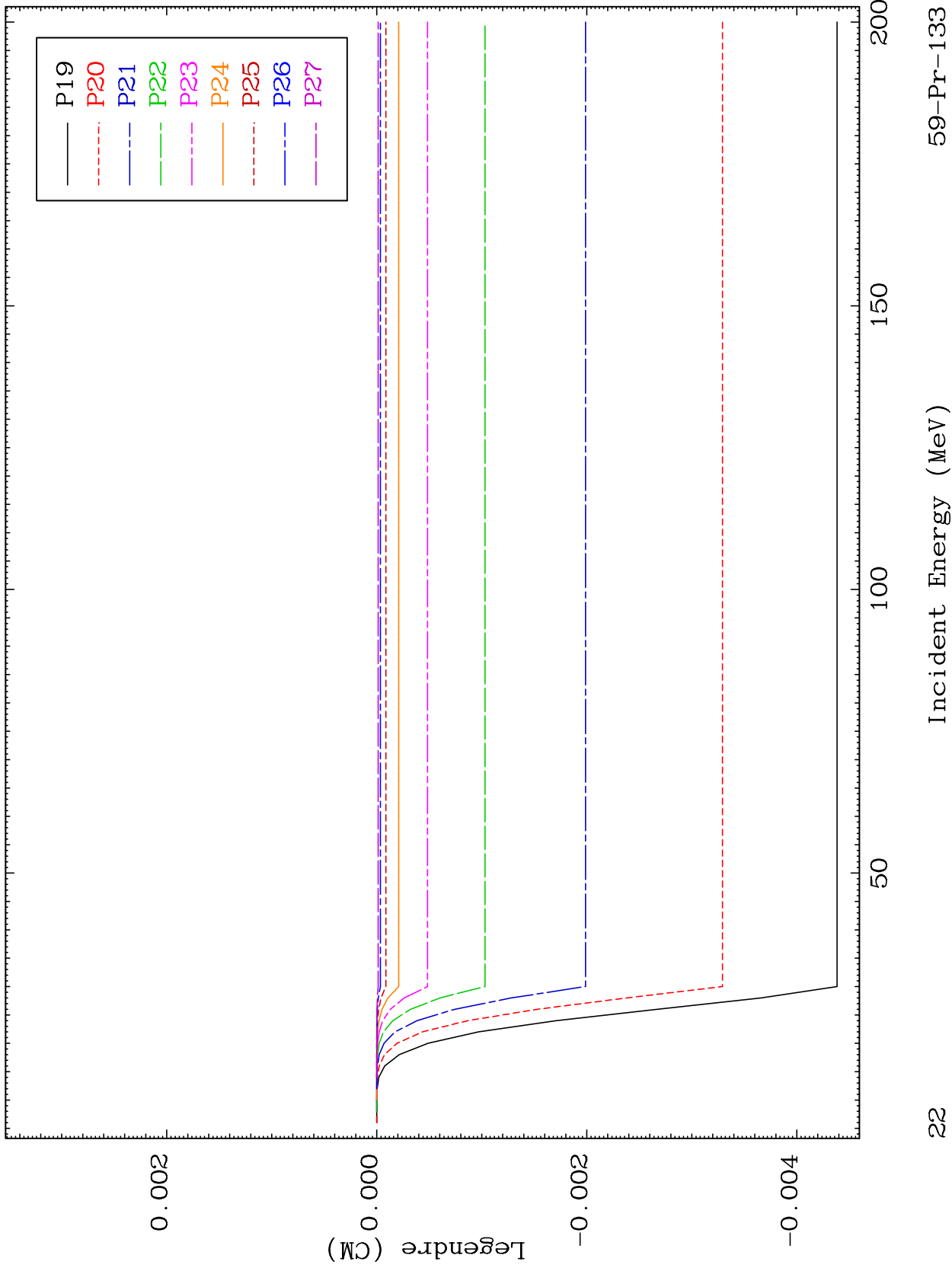
59-Pr-133

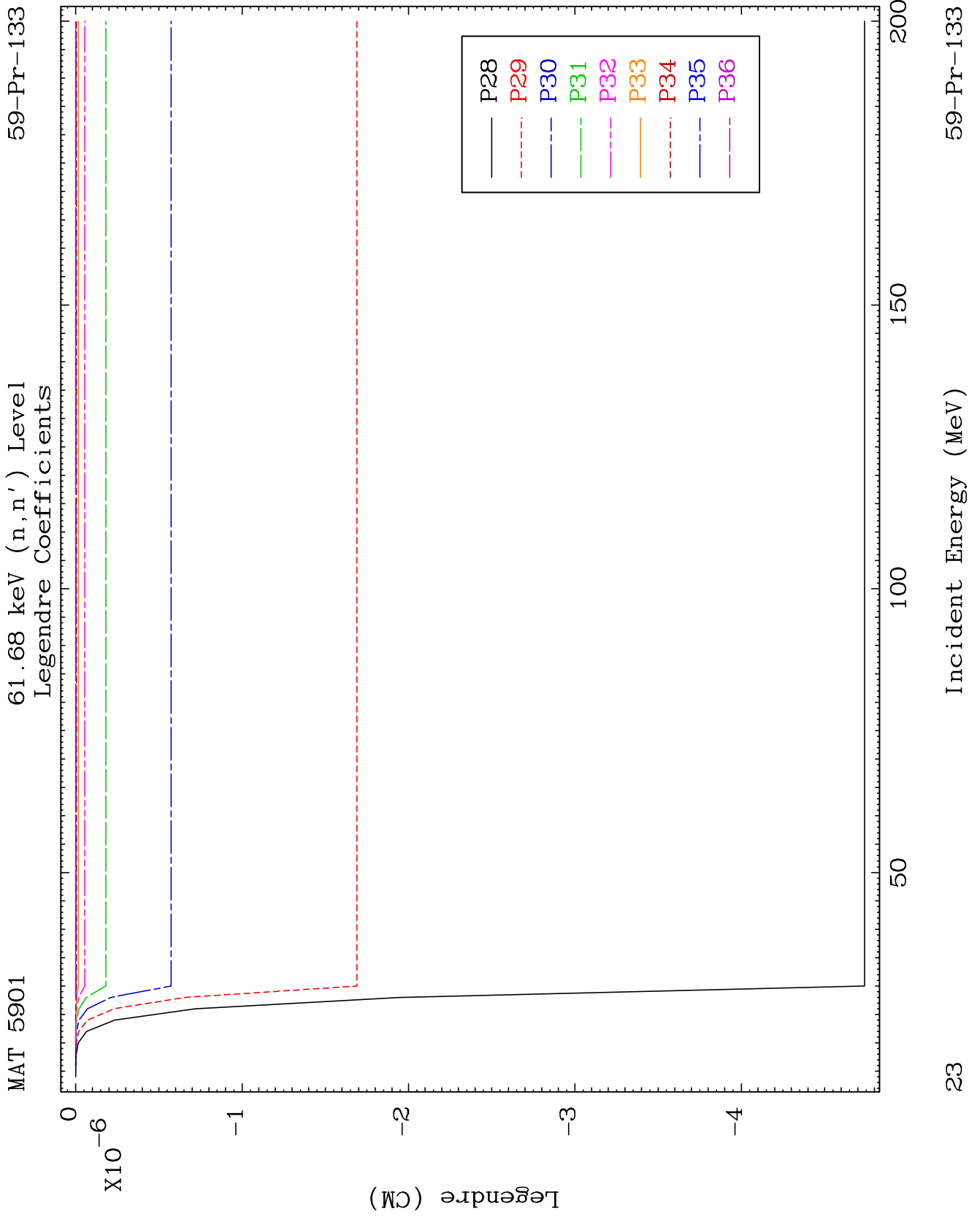


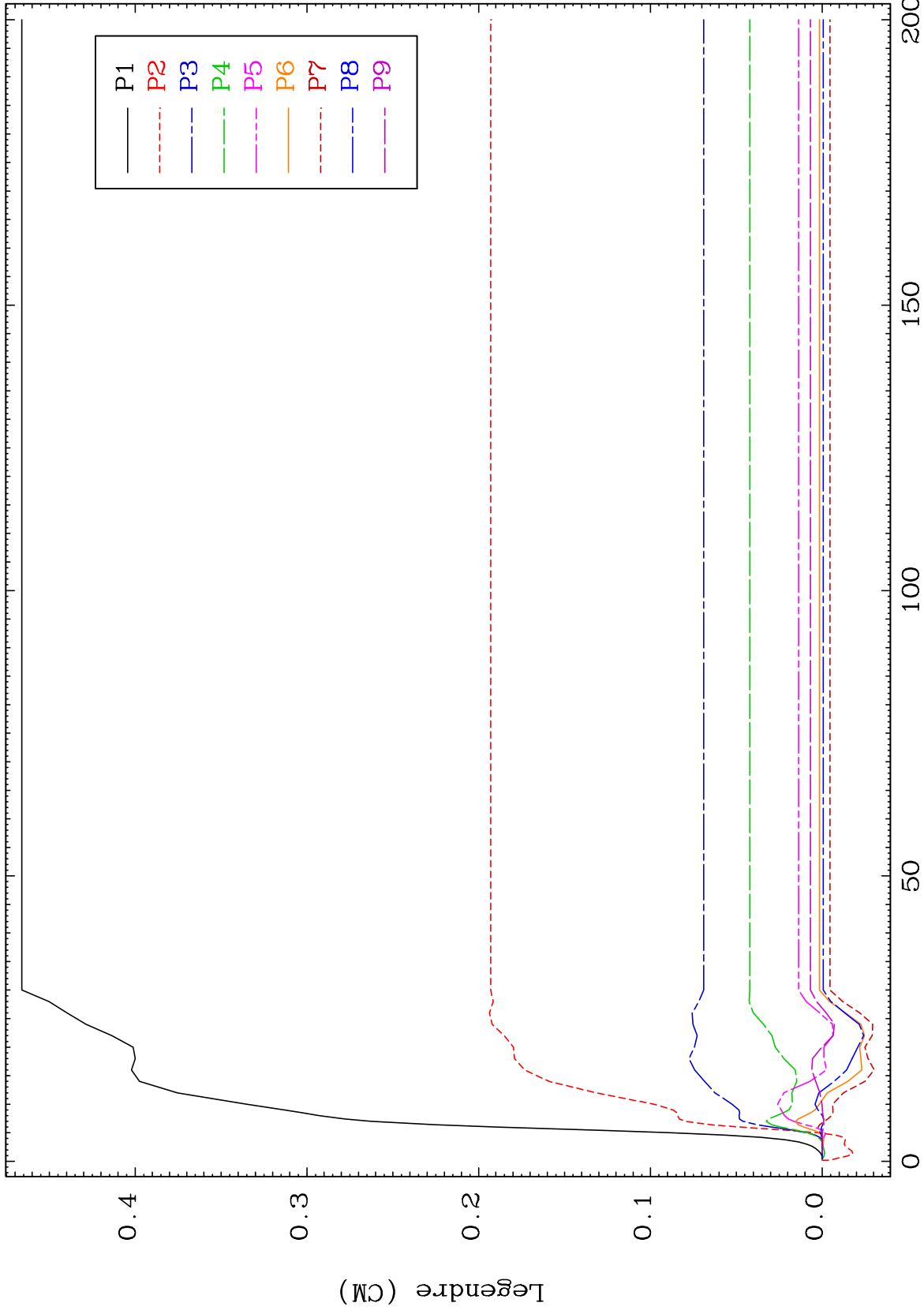
59-Pr-133

Incident Energy (MeV)

21



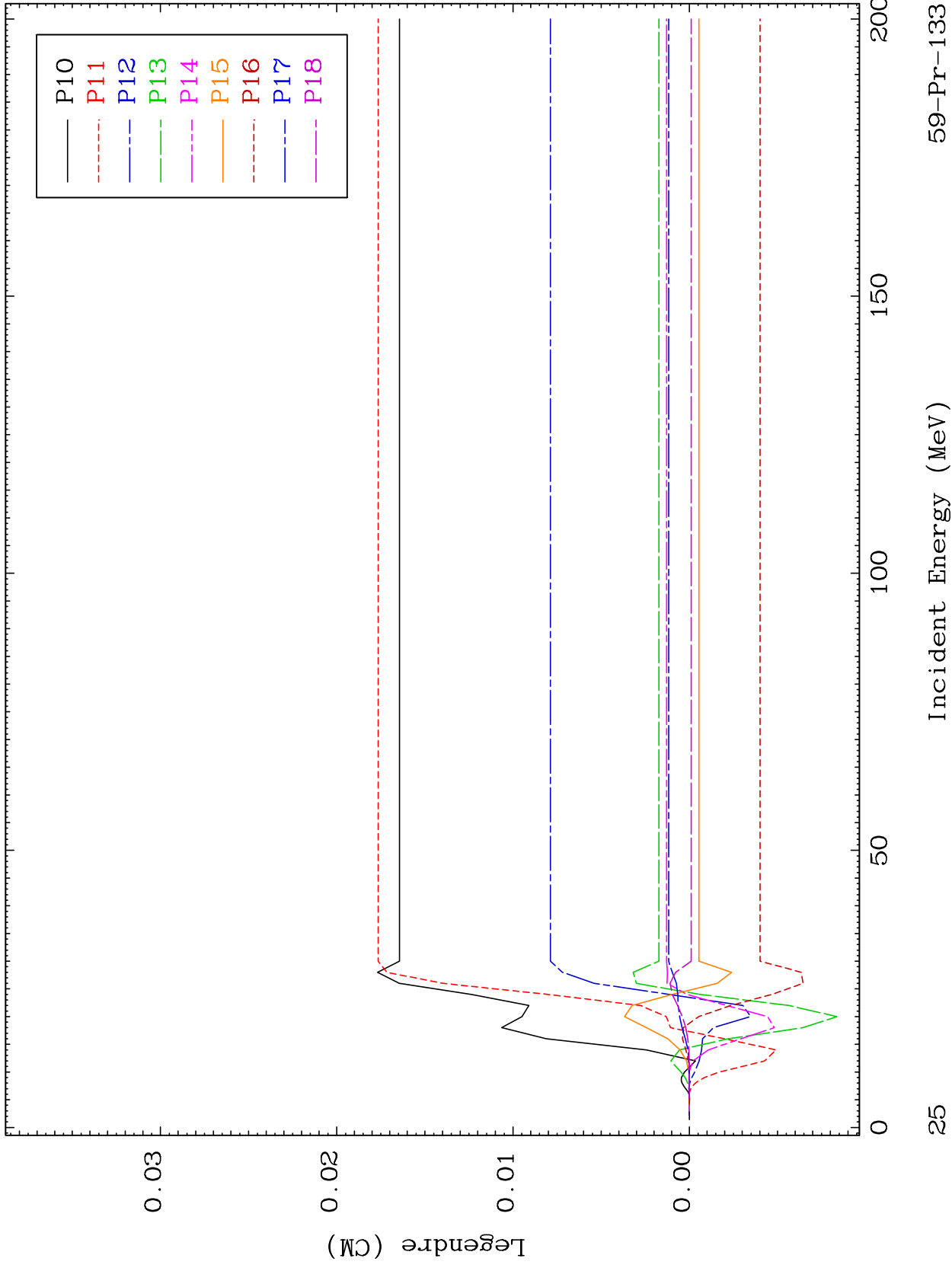




MAT 5901

166.7 keV (n,n') Level
Legendre Coefficients

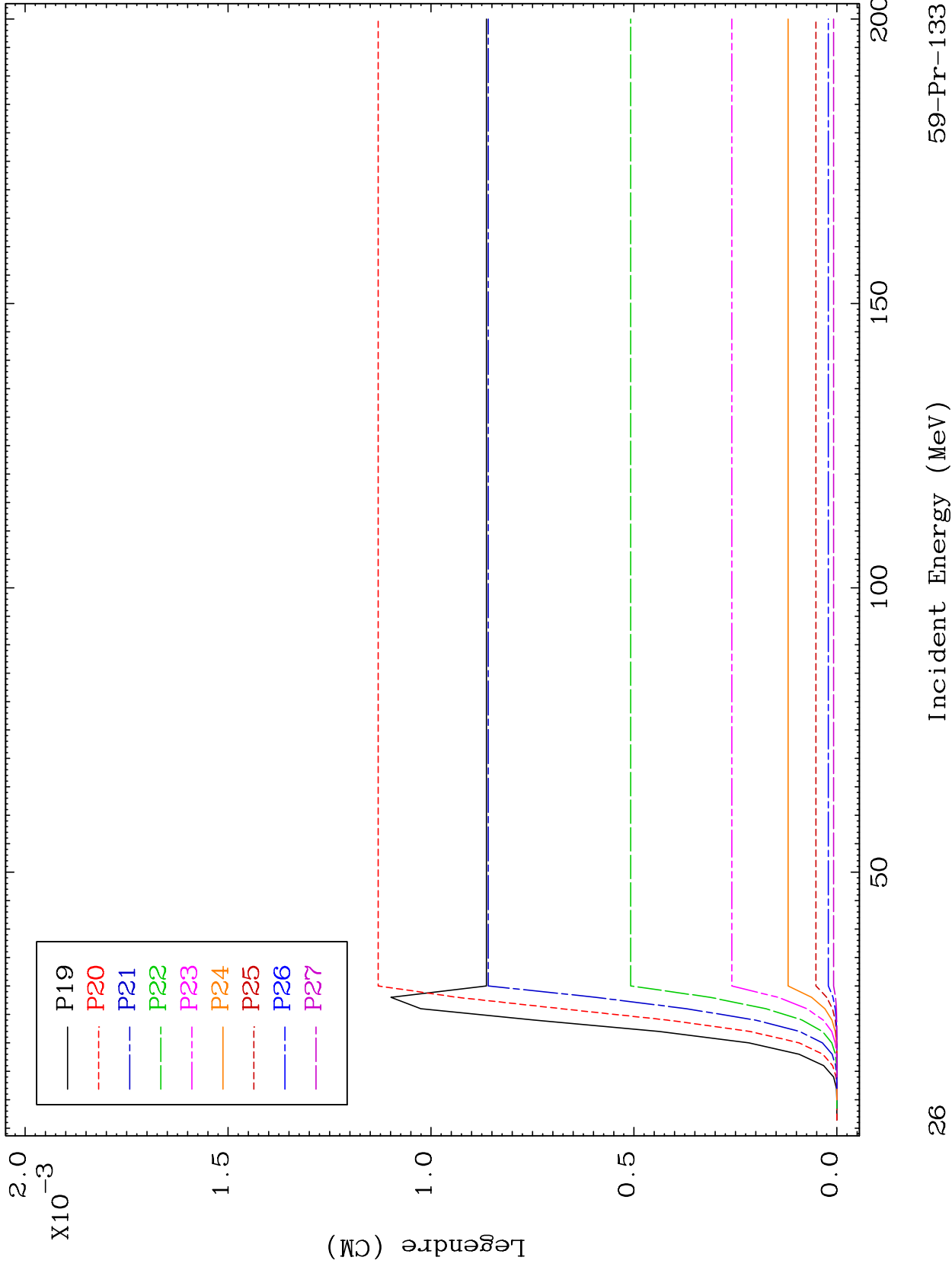
59-Pr-133



59-Pr-133

Incident Energy (MeV)

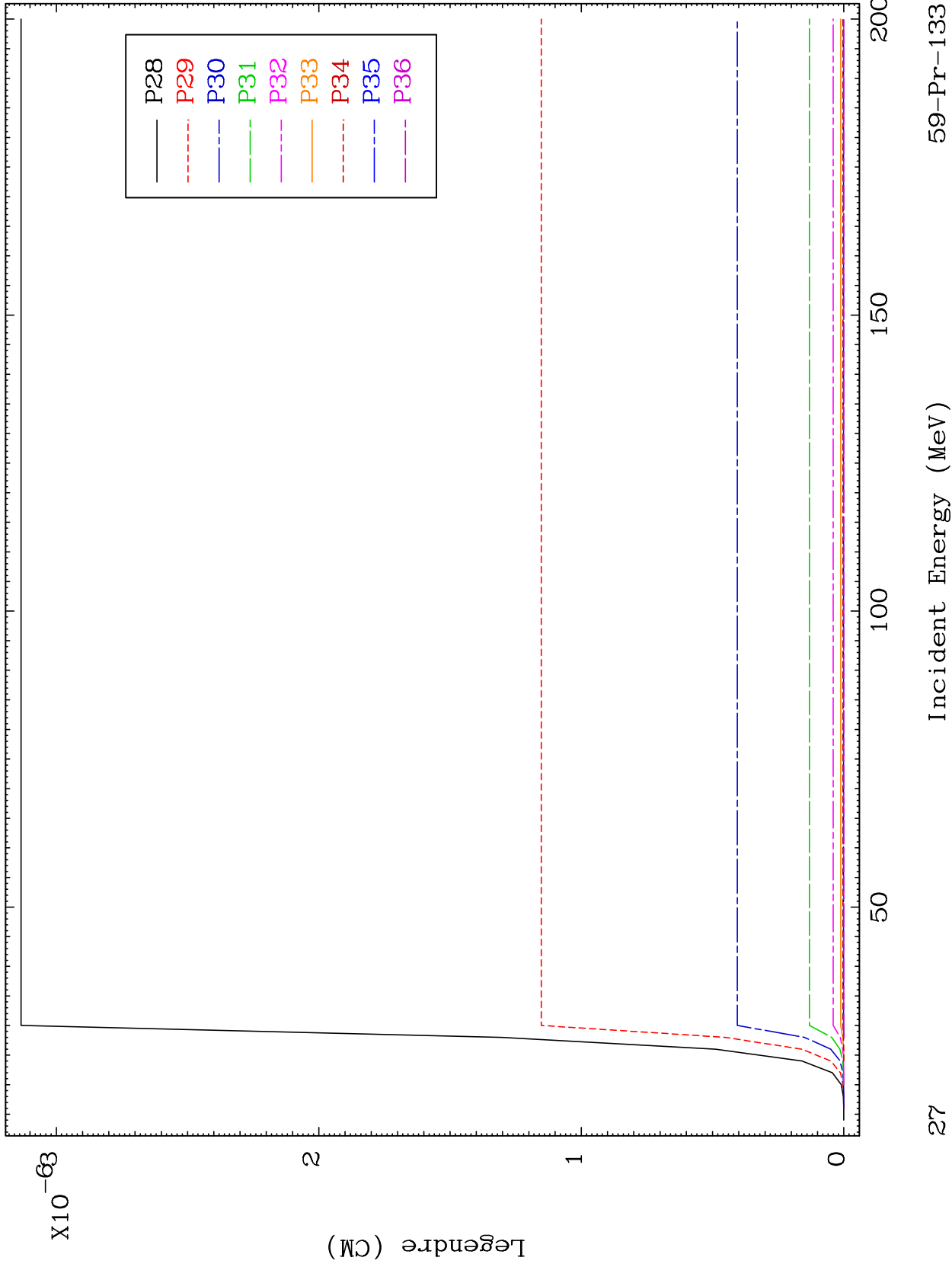
25



MAT 5901

166.7 keV (n,n') Level
Legendre Coefficients

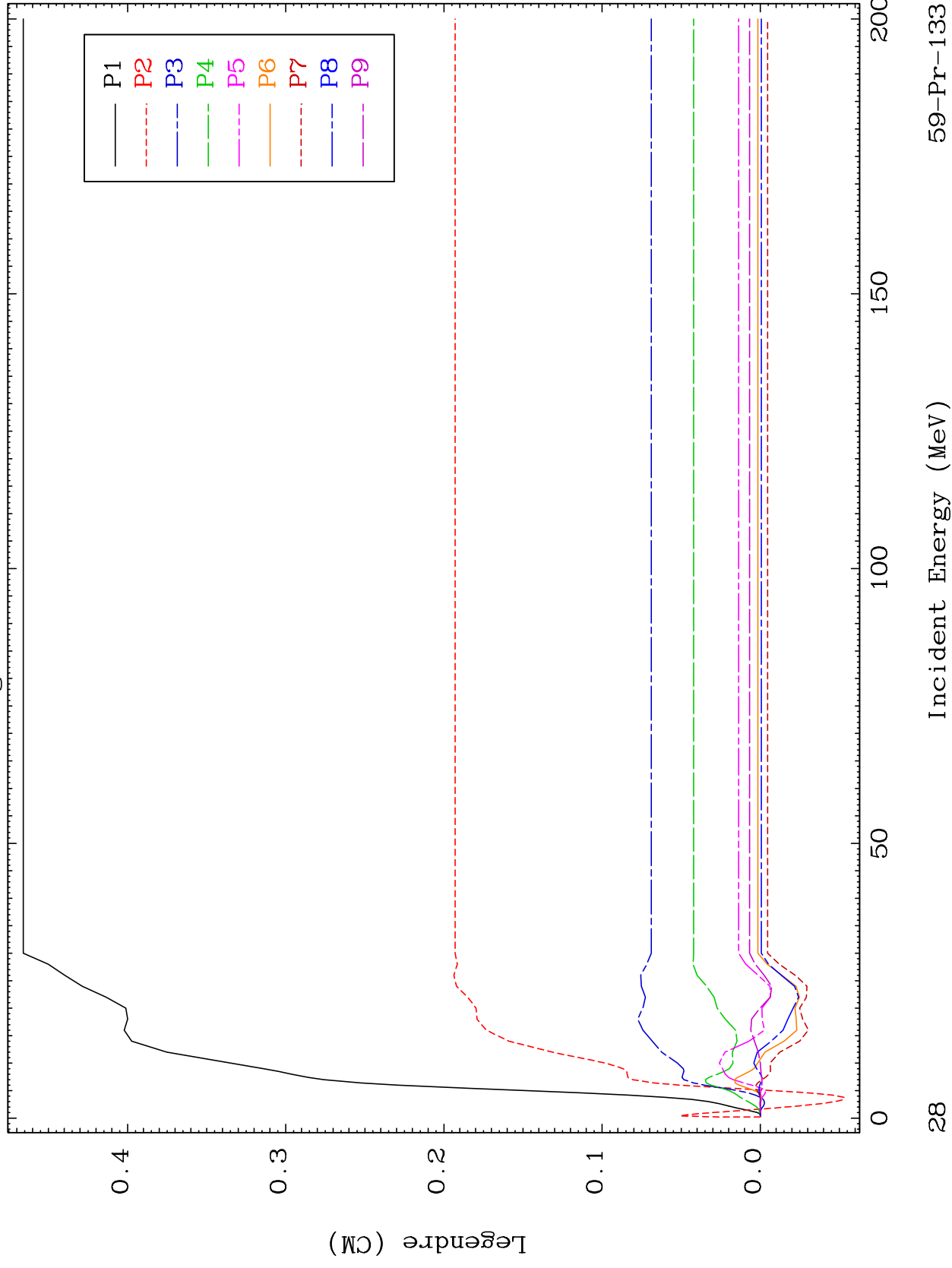
59-Pr-133



MAT 5901

192.1 keV (n,n') Level
Legendre Coefficients

59-Pr-133

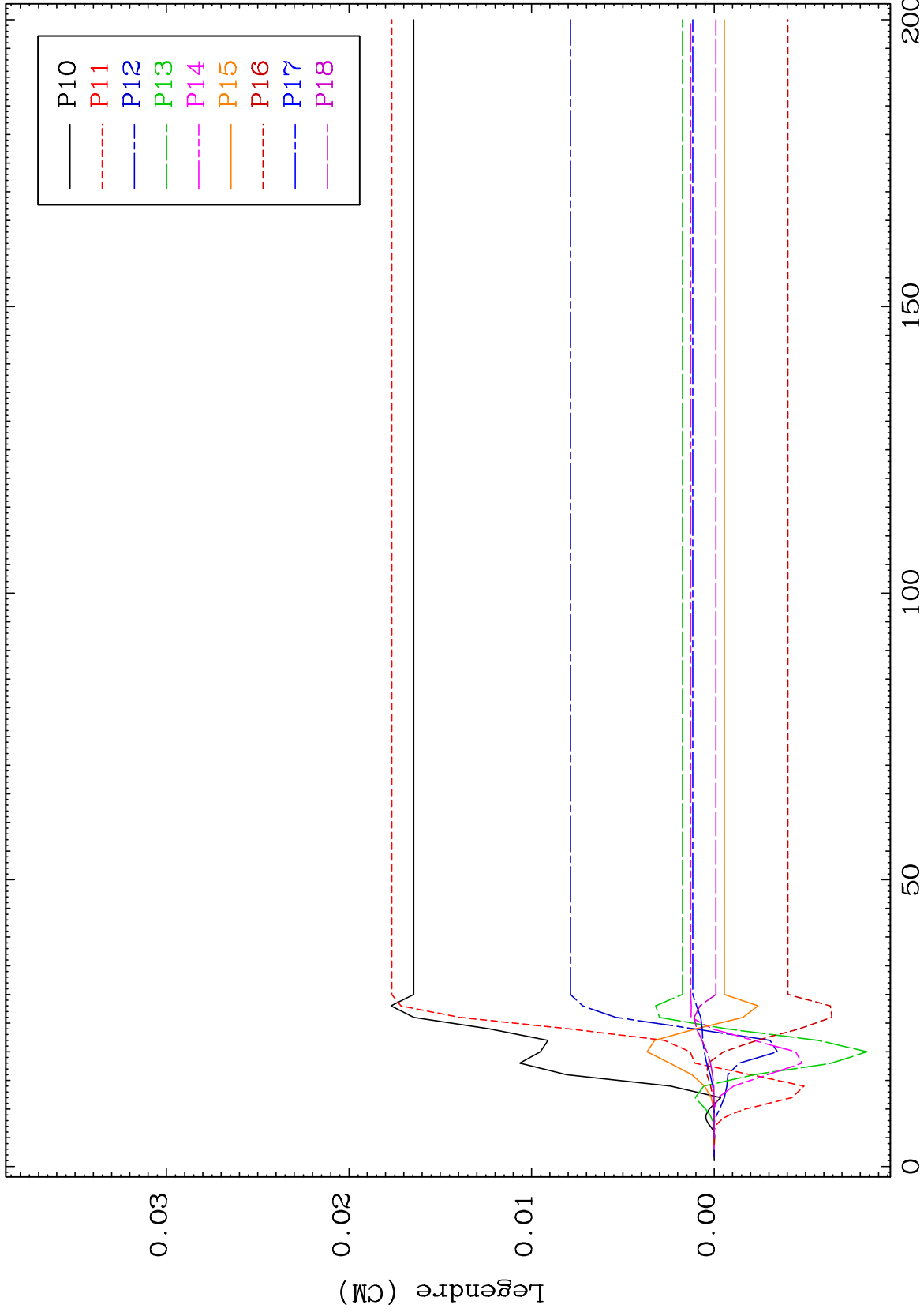


28

MAT 5901

192.1 keV (n,n') Level
Legendre Coefficients

59-Pr-133



29

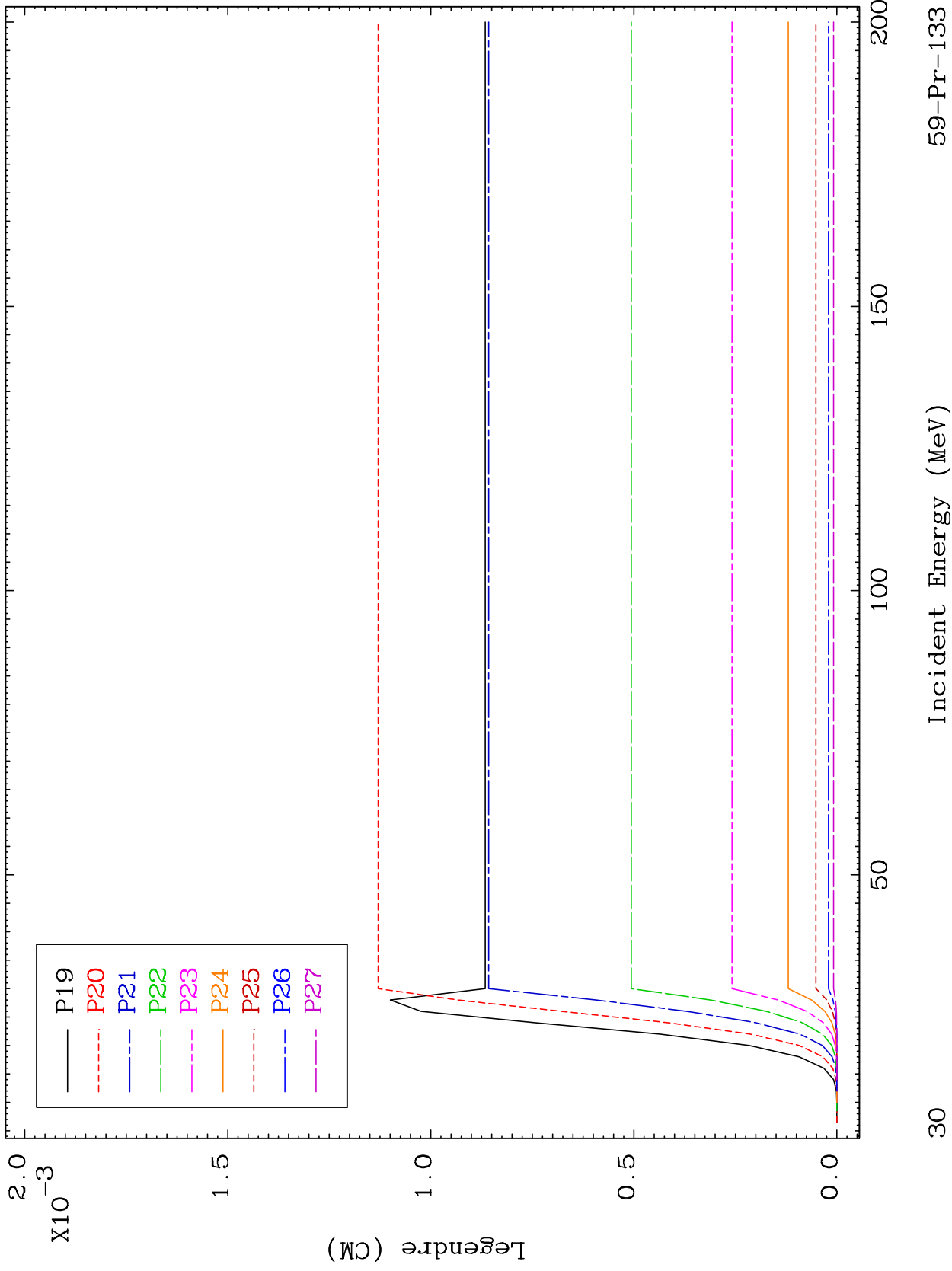
Incident Energy (MeV)

59-Pr-133

MAT 5901

192.1 keV (n,n') Level
Legendre Coefficients

59-Pr-133



30

Incident Energy (MeV)

50

100

150

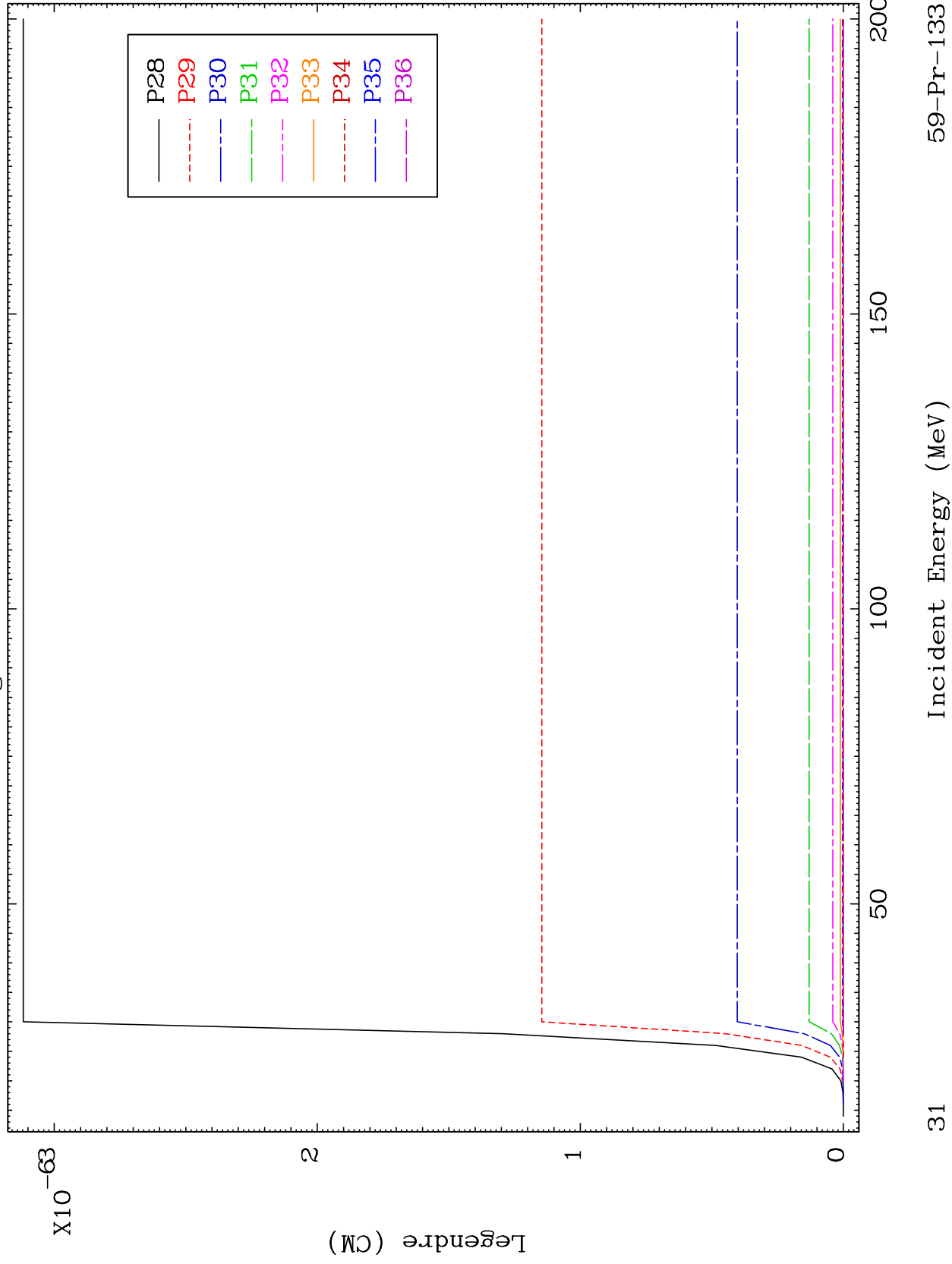
200

59-Pr-133

MAT 5901

192.1 keV (n,n') Level
Legendre Coefficients

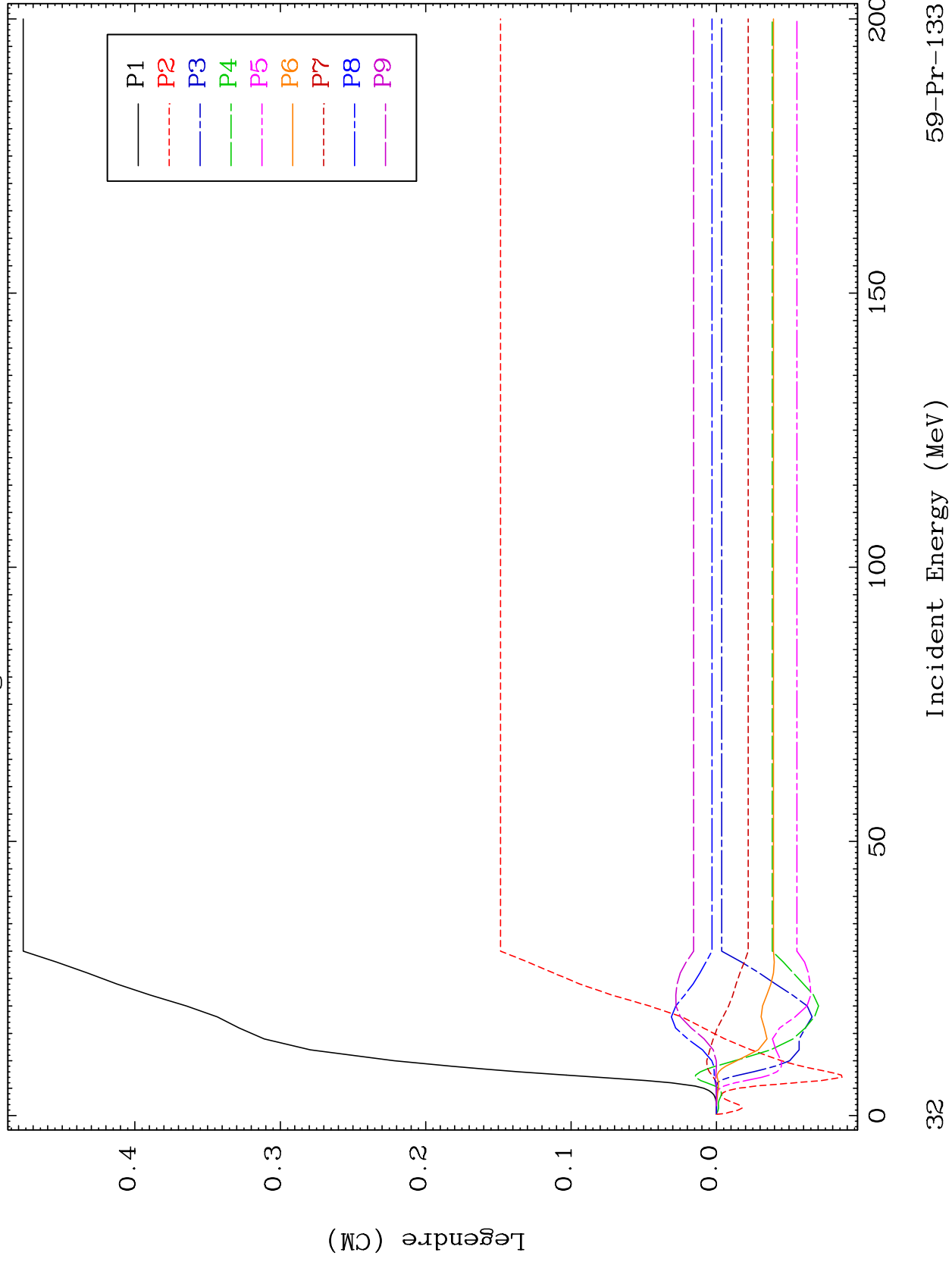
59-Pr-133



MAT 5901

225.9 keV (n,n') Level
Legendre Coefficients

59-Pr-133



59-Pr-133

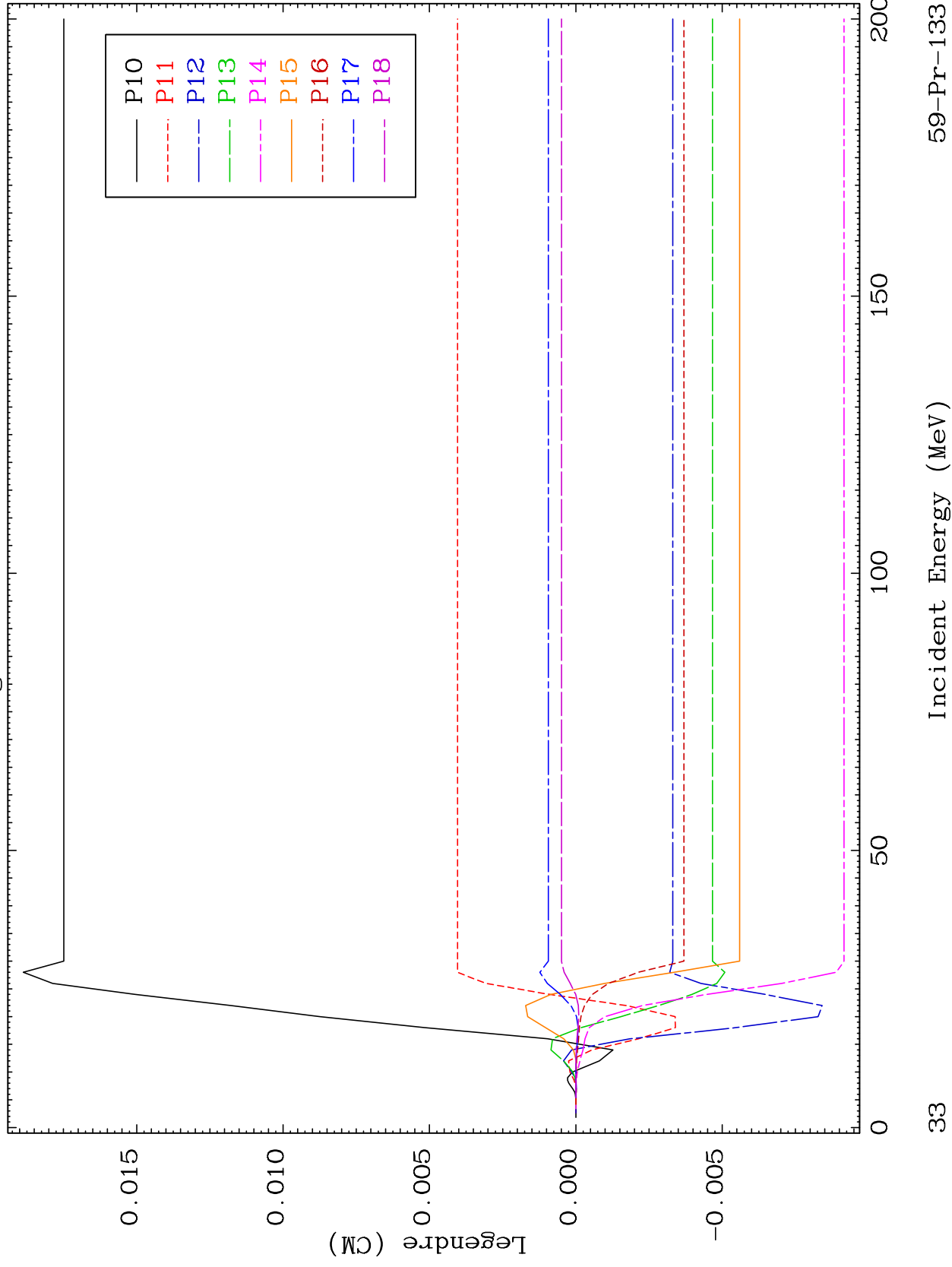
Incident Energy (MeV)

32

MAT 5901

225.9 keV (n,n') Level
Legendre Coefficients

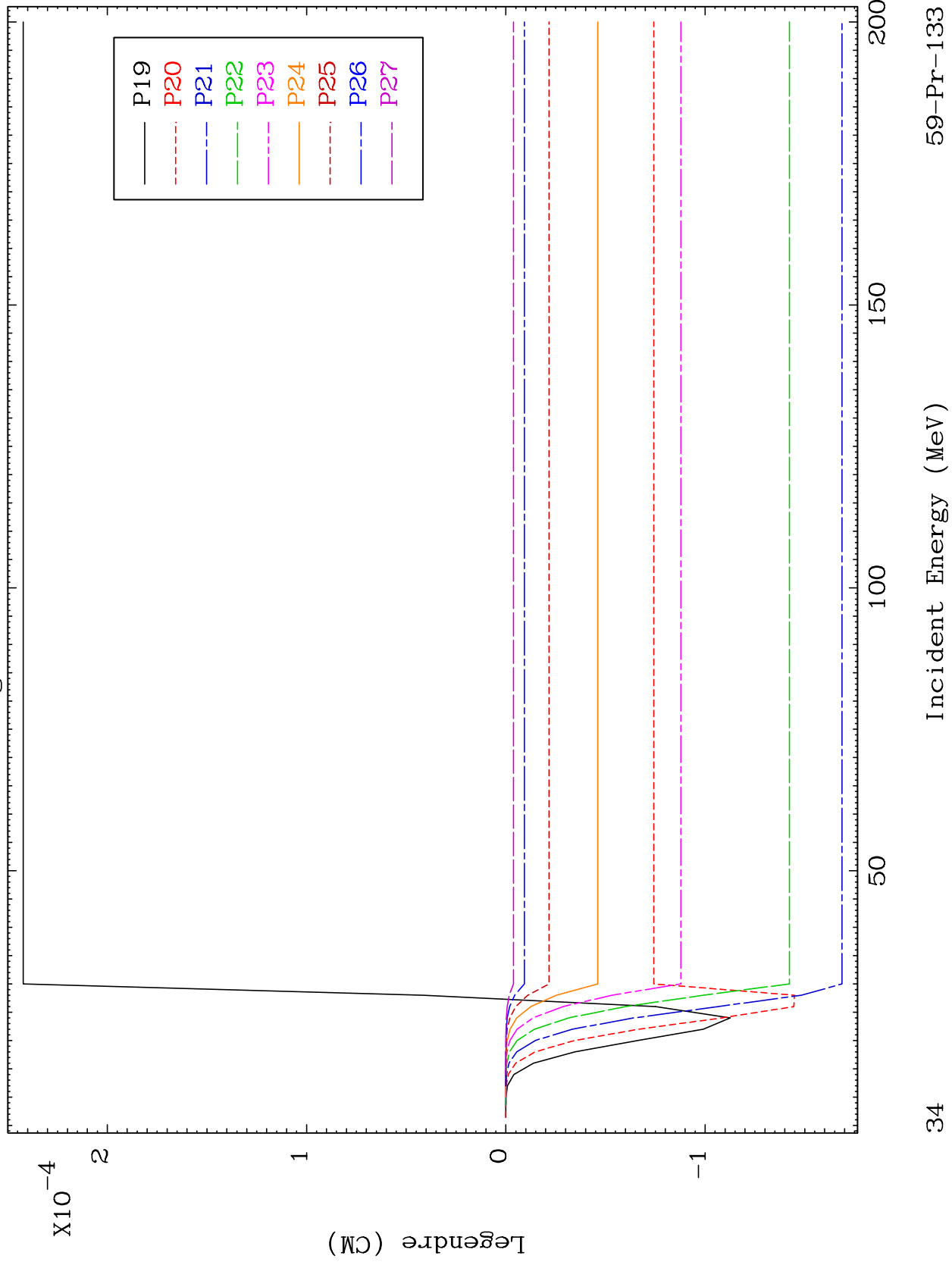
59-Pr-133

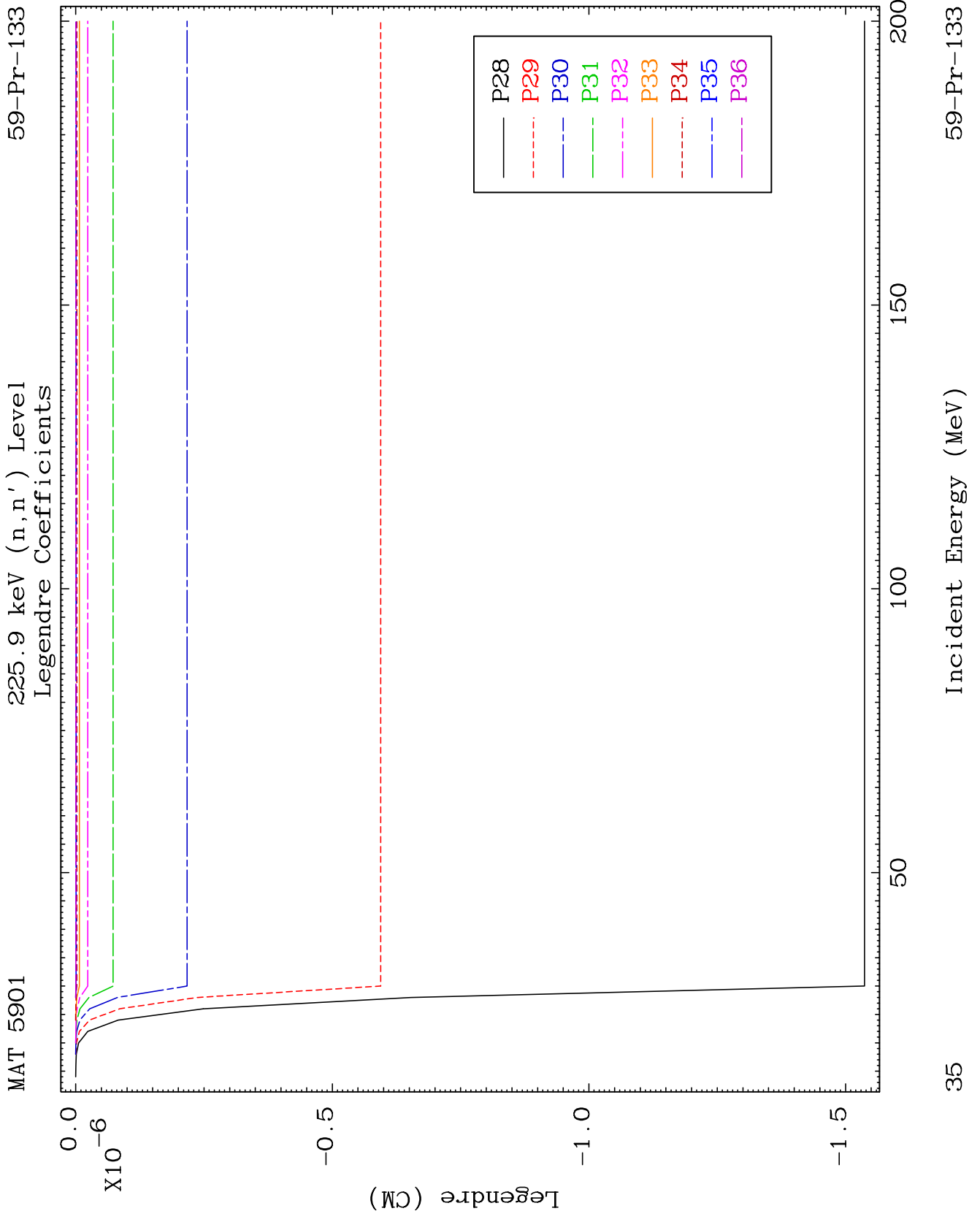


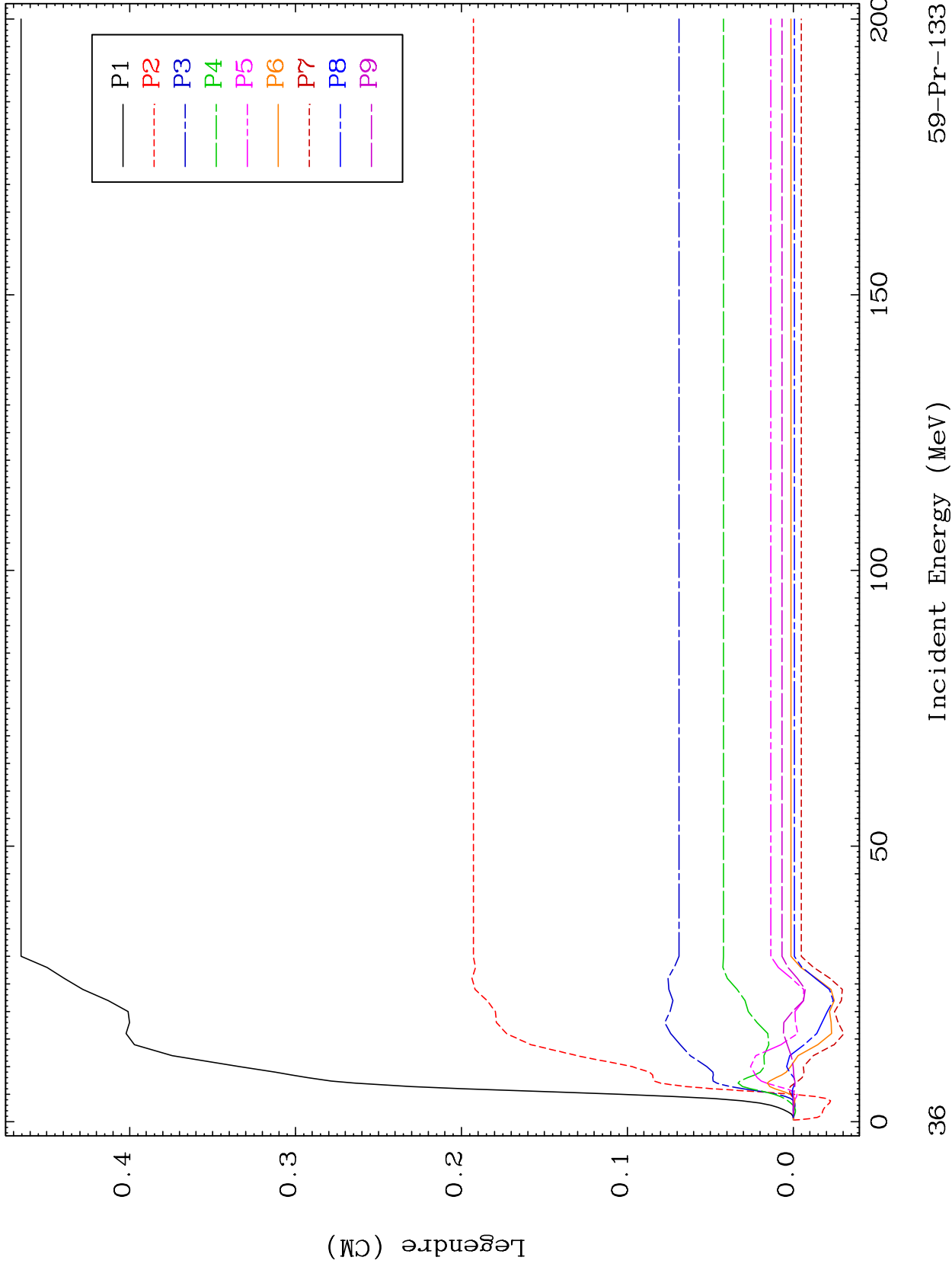
33

Incident Energy (MeV)

59-Pr-133



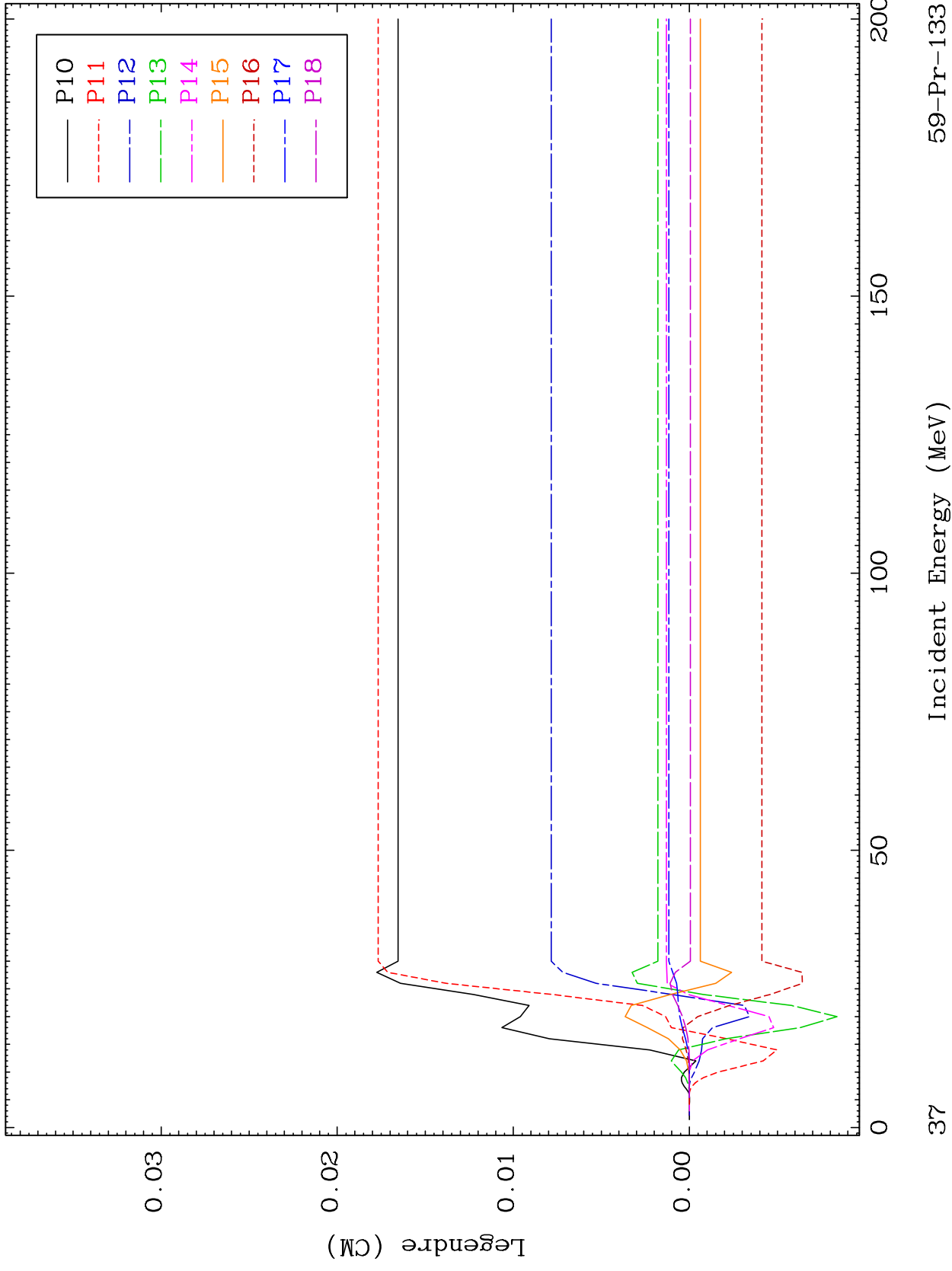




MAT 5901

295.6 keV (n,n') Level
Legendre Coefficients

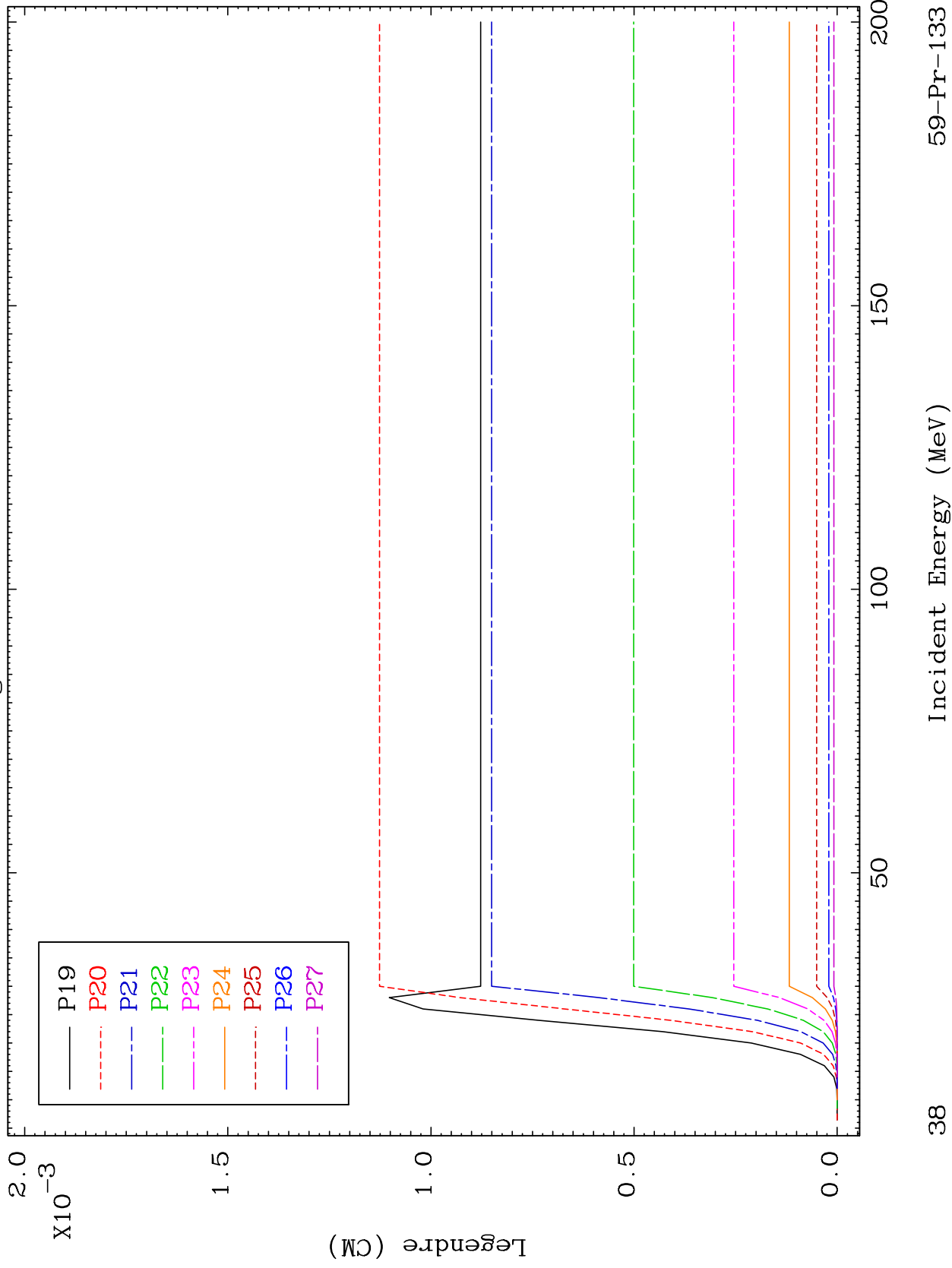
59-Pr-133

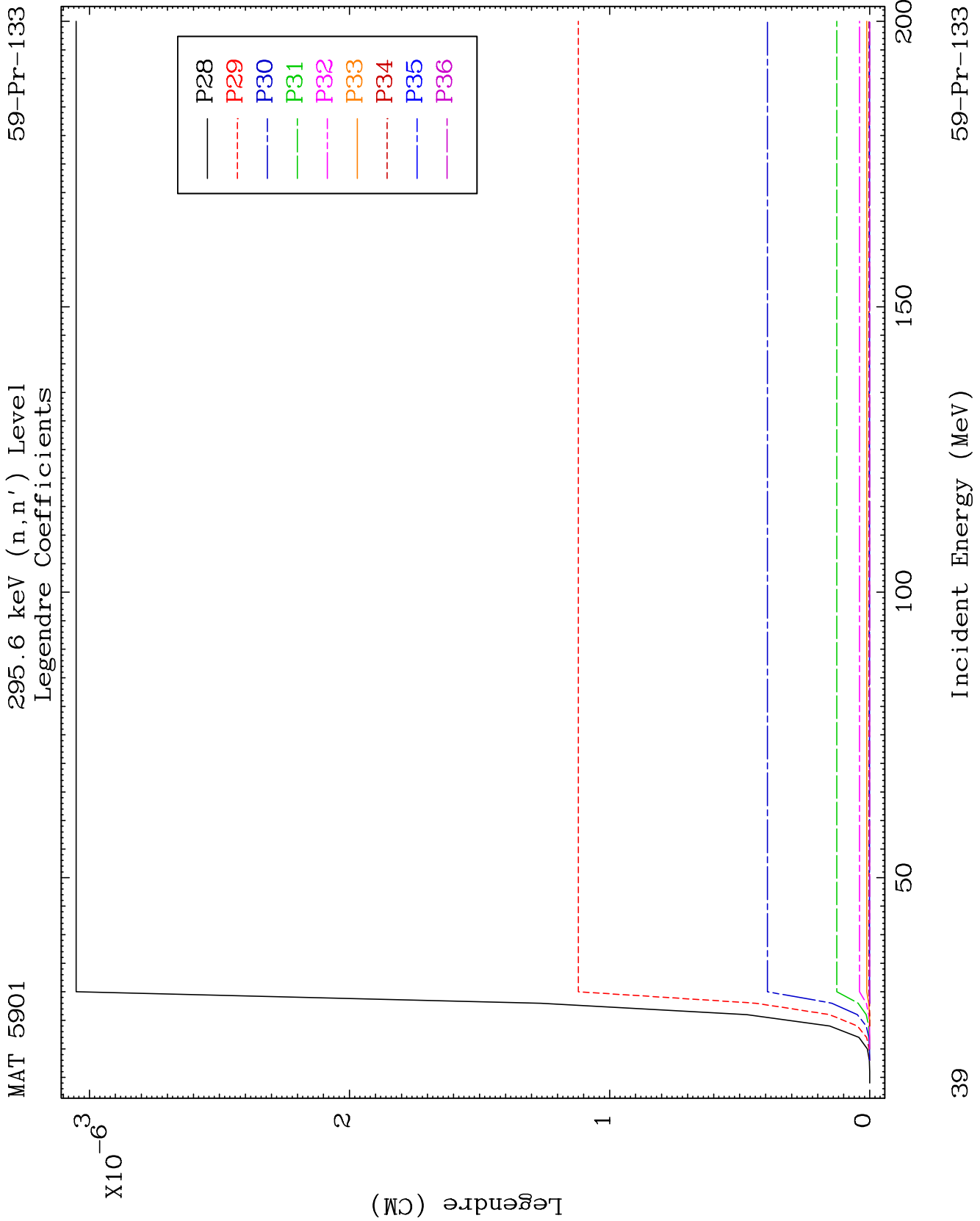


59-Pr-133

Incident Energy (MeV)

37

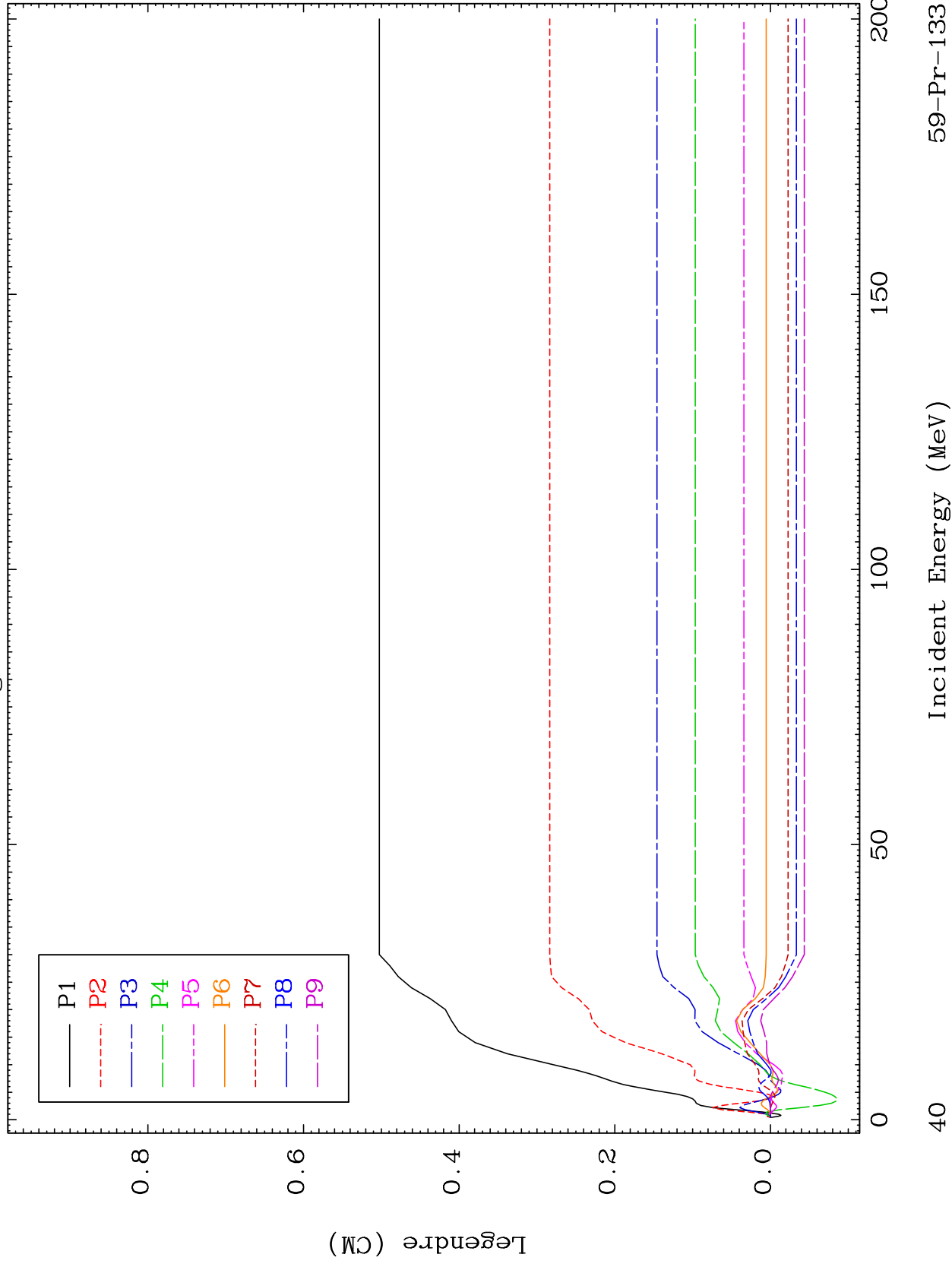




MAT 5901

402.8 keV (n,n') Level
Legendre Coefficients

59-Pr-133



59-Pr-133

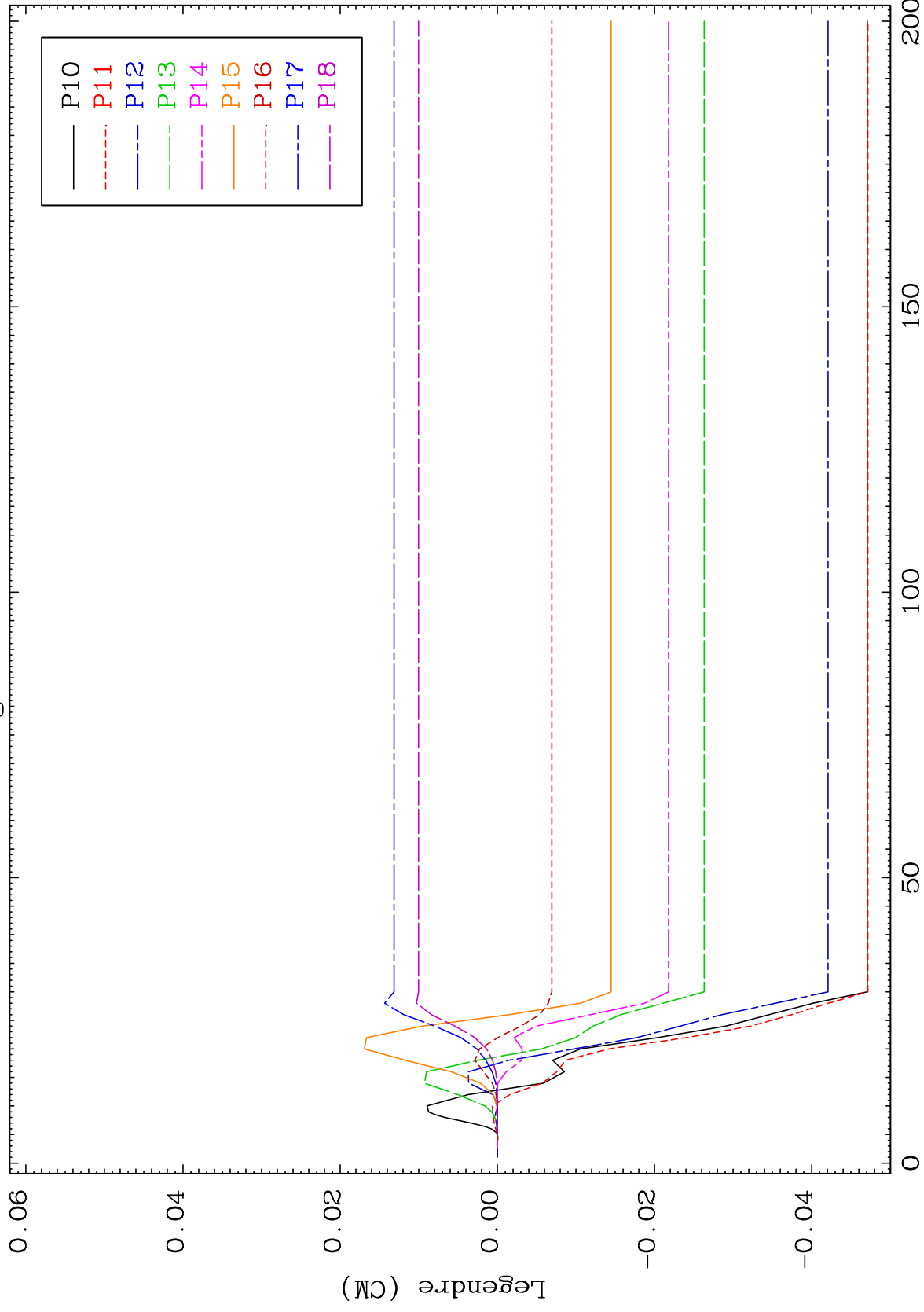
Incident Energy (MeV)

40

MAT 5901

402.8 keV (n,n') Level
Legendre Coefficients

59-Pr-133



41

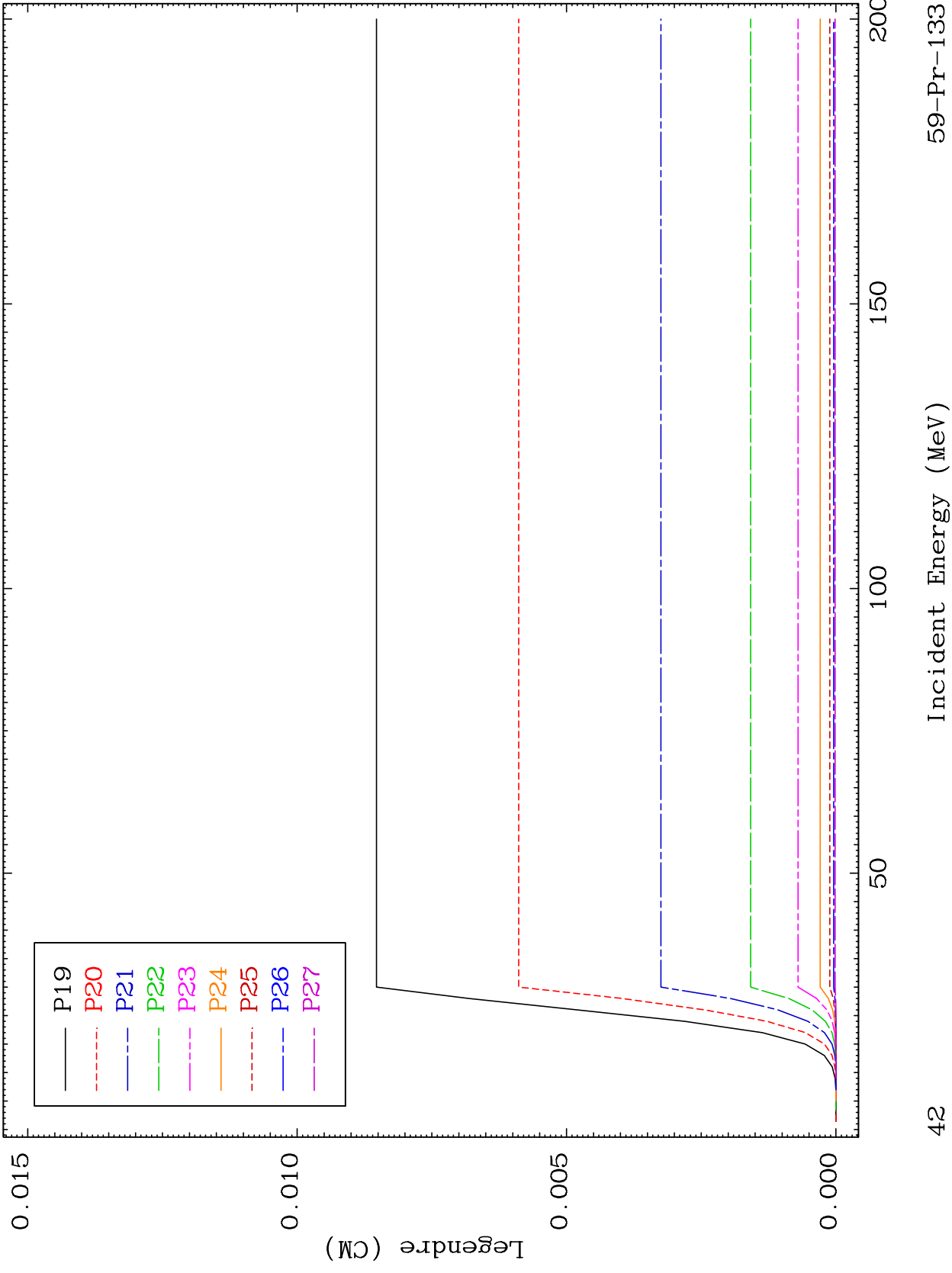
Incident Energy (MeV)

59-Pr-133

MAT 5901

402.8 keV (n,n') Level
Legendre Coefficients

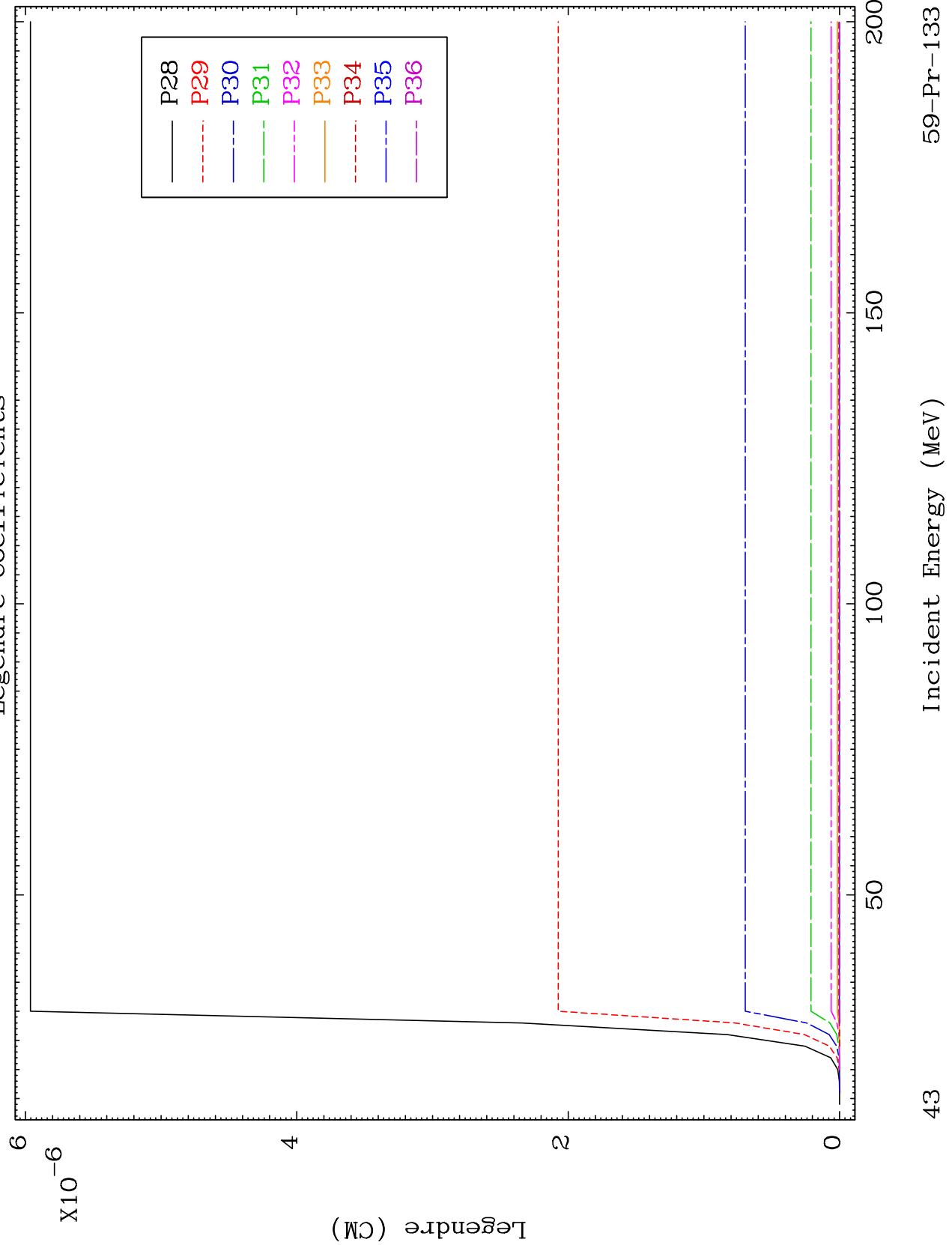
59-Pr-133

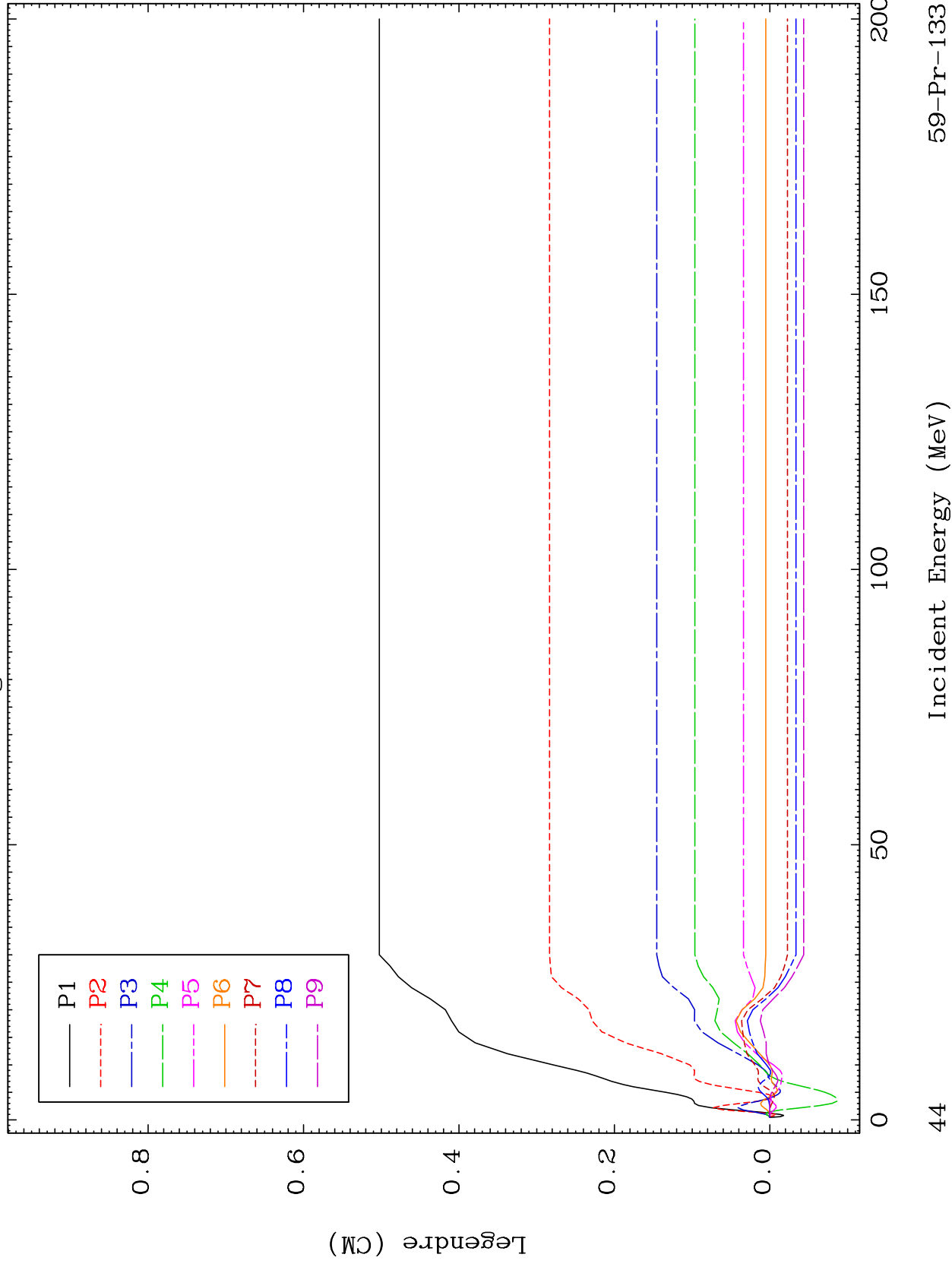


42

Incident Energy (MeV)

59-Pr-133

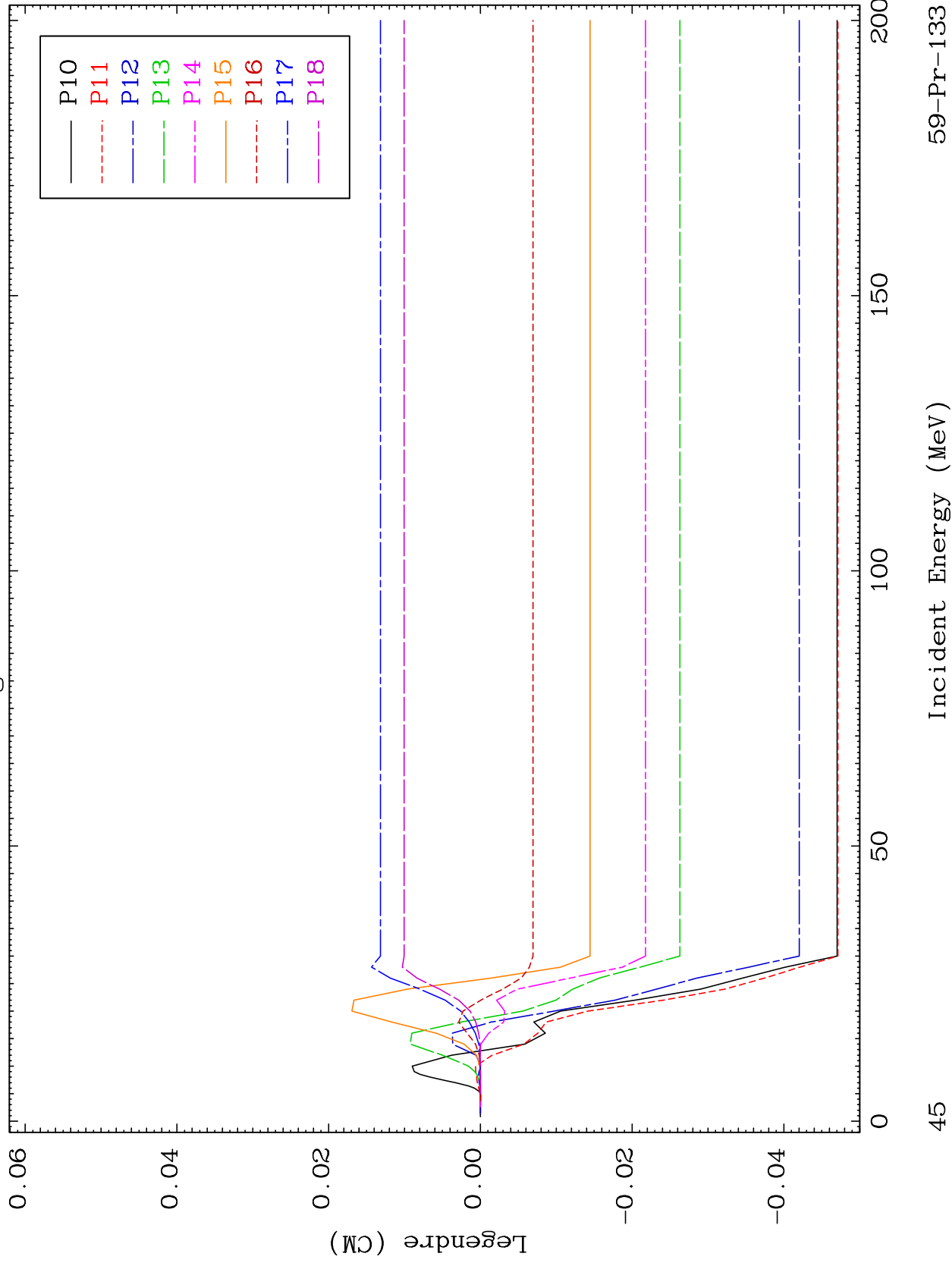




MAT 5901

428.6 keV (n,n') Level
Legendre Coefficients

59-Pr-133



59-Pr-133

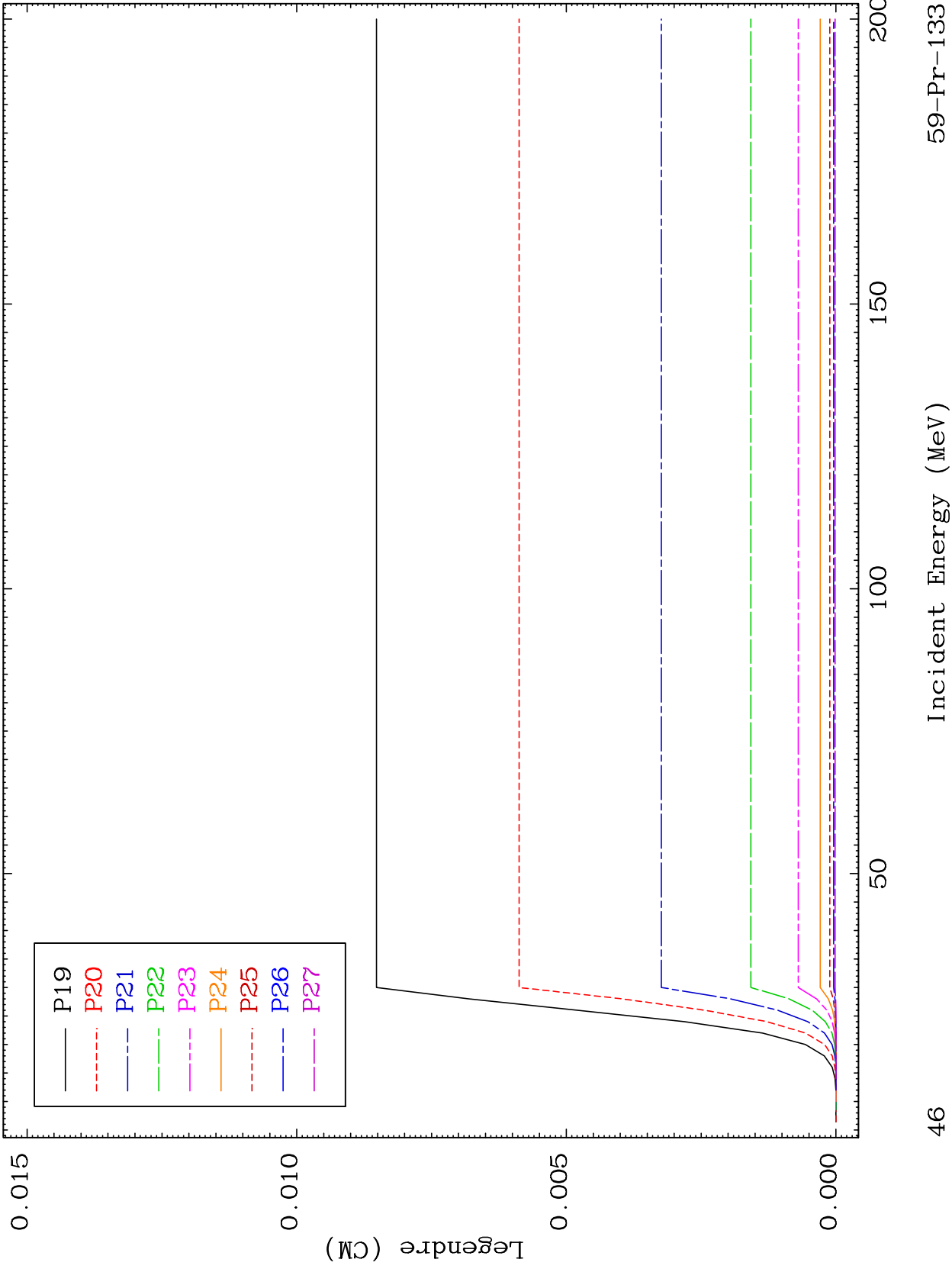
Incident Energy (MeV)

45

MAT 5901

428.6 keV (n,n') Level
Legendre Coefficients

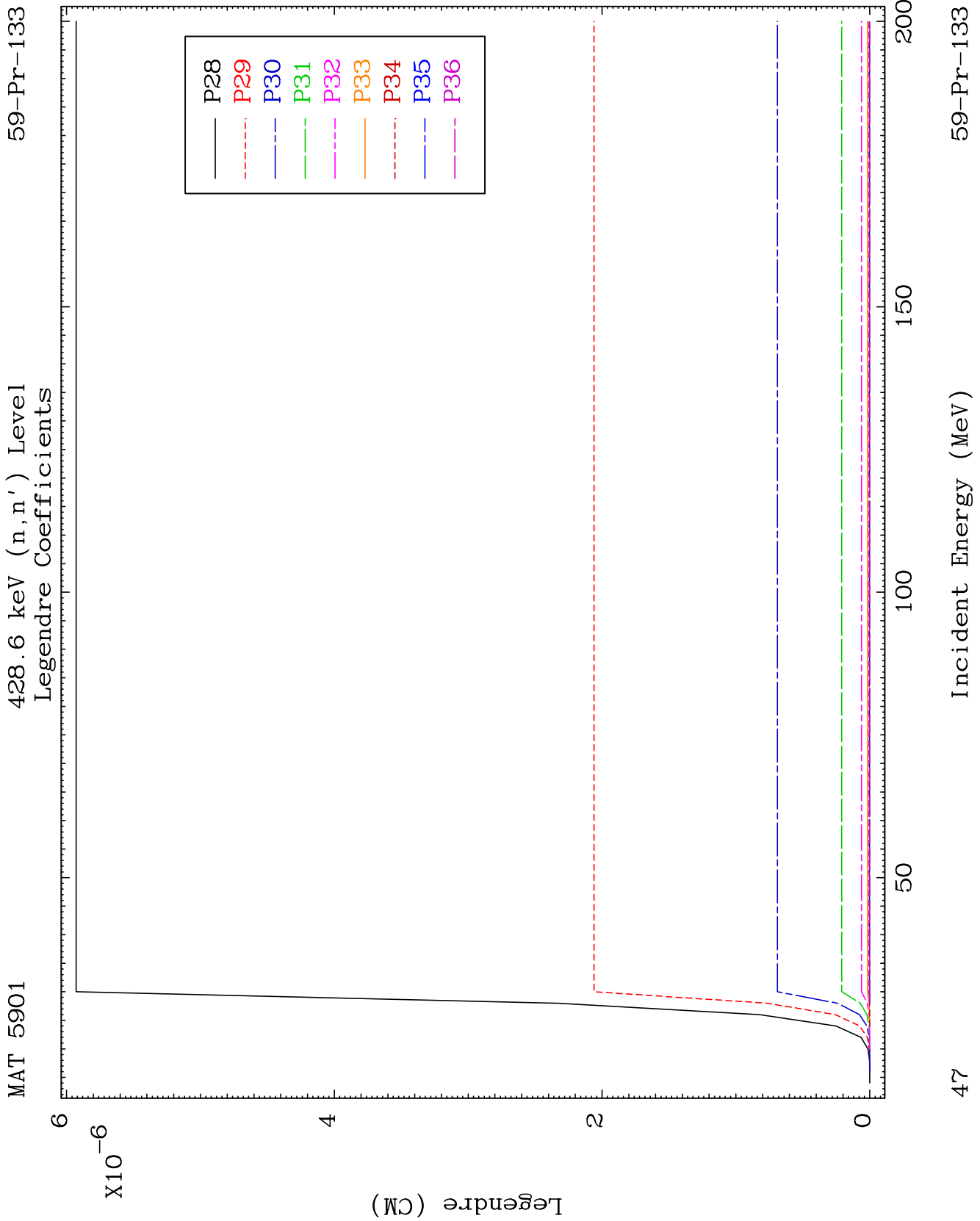
59-Pr-133



59-Pr-133

Incident Energy (MeV)

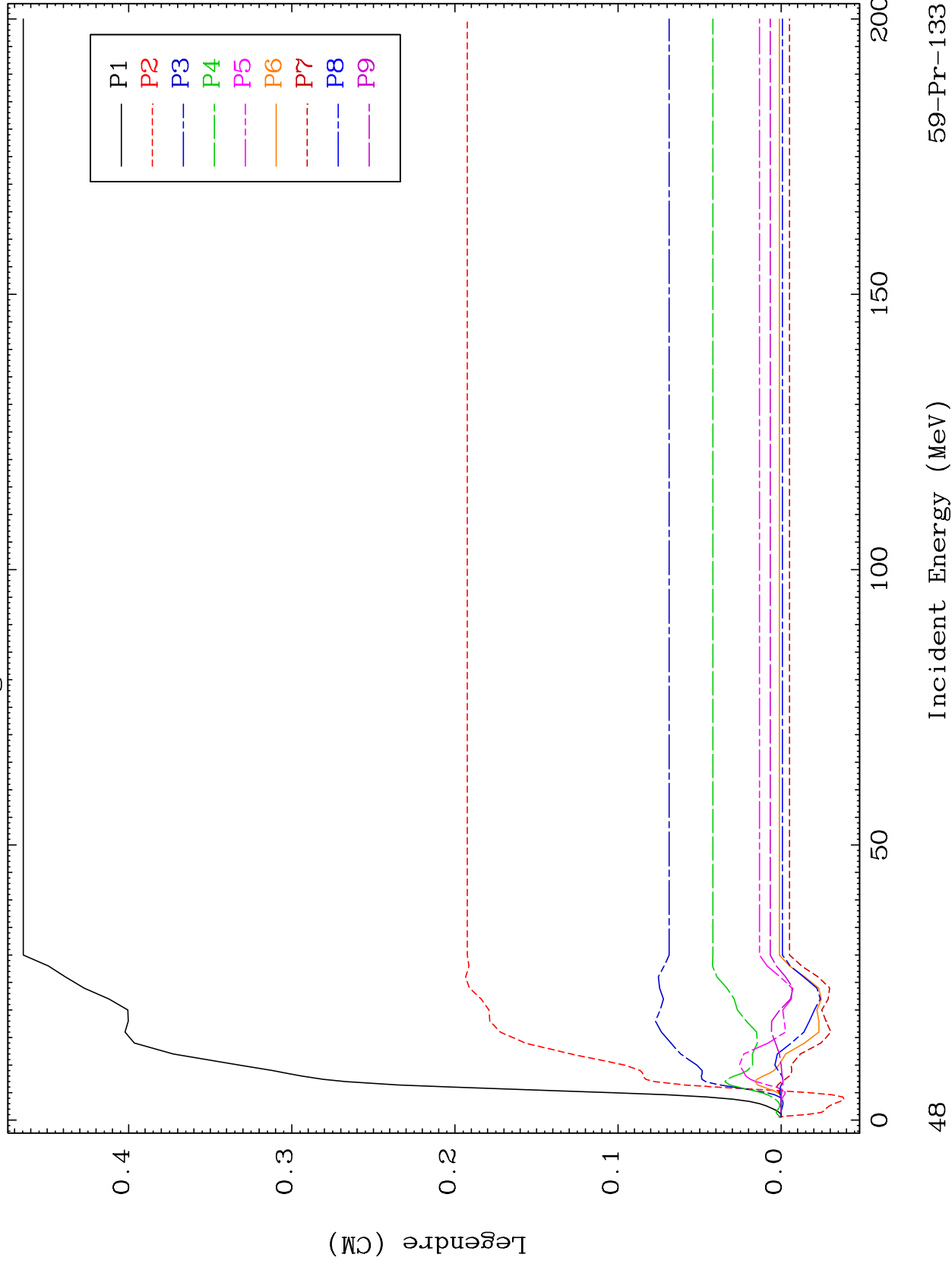
46



MAT 5901

475.8 keV (n,n') Level
Legendre Coefficients

59-Pr-133



59-Pr-133

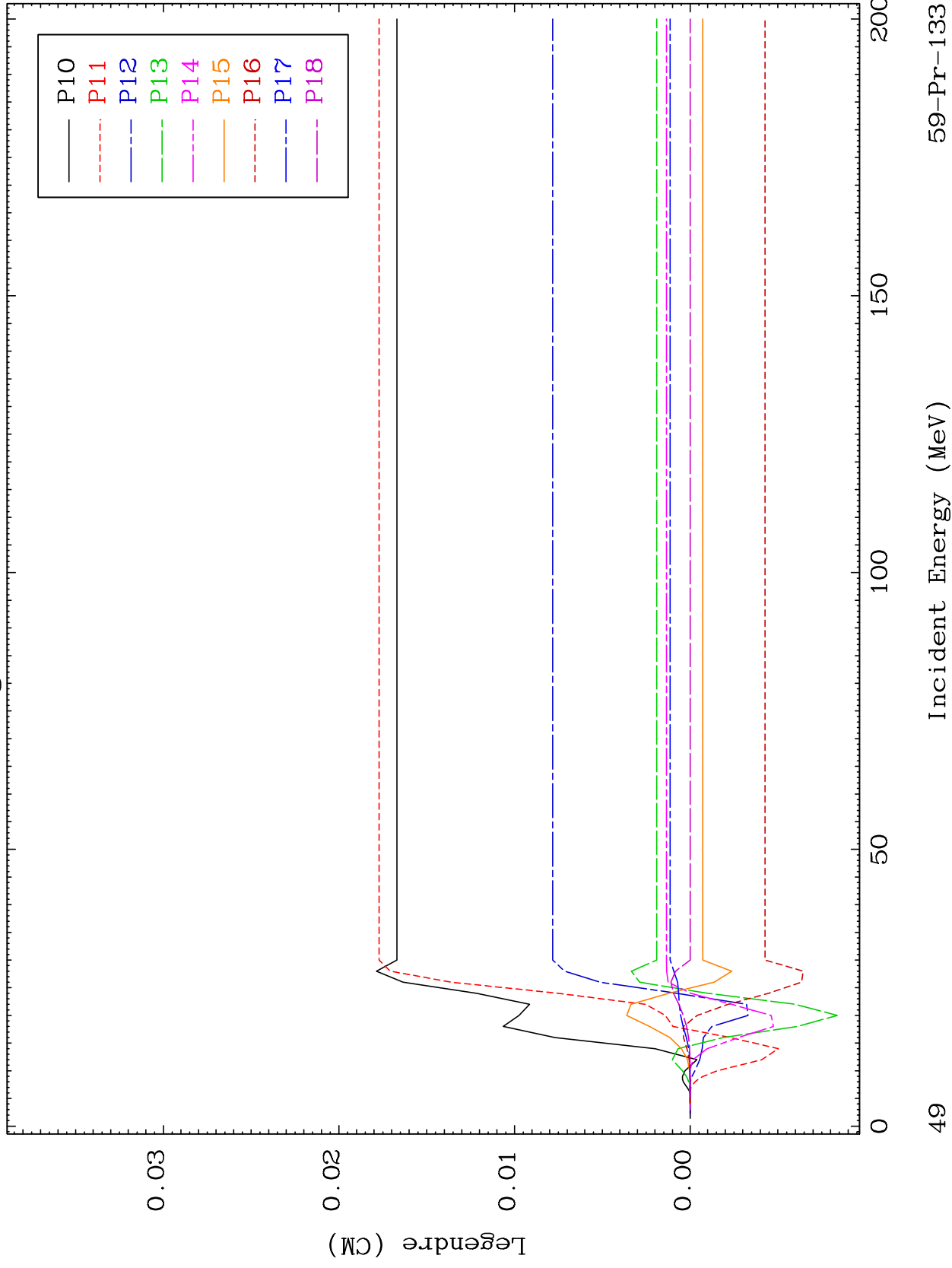
Incident Energy (MeV)

48

MAT 5901

475.8 keV (n,n') Level
Legendre Coefficients

59-Pr-133



59-Pr-133

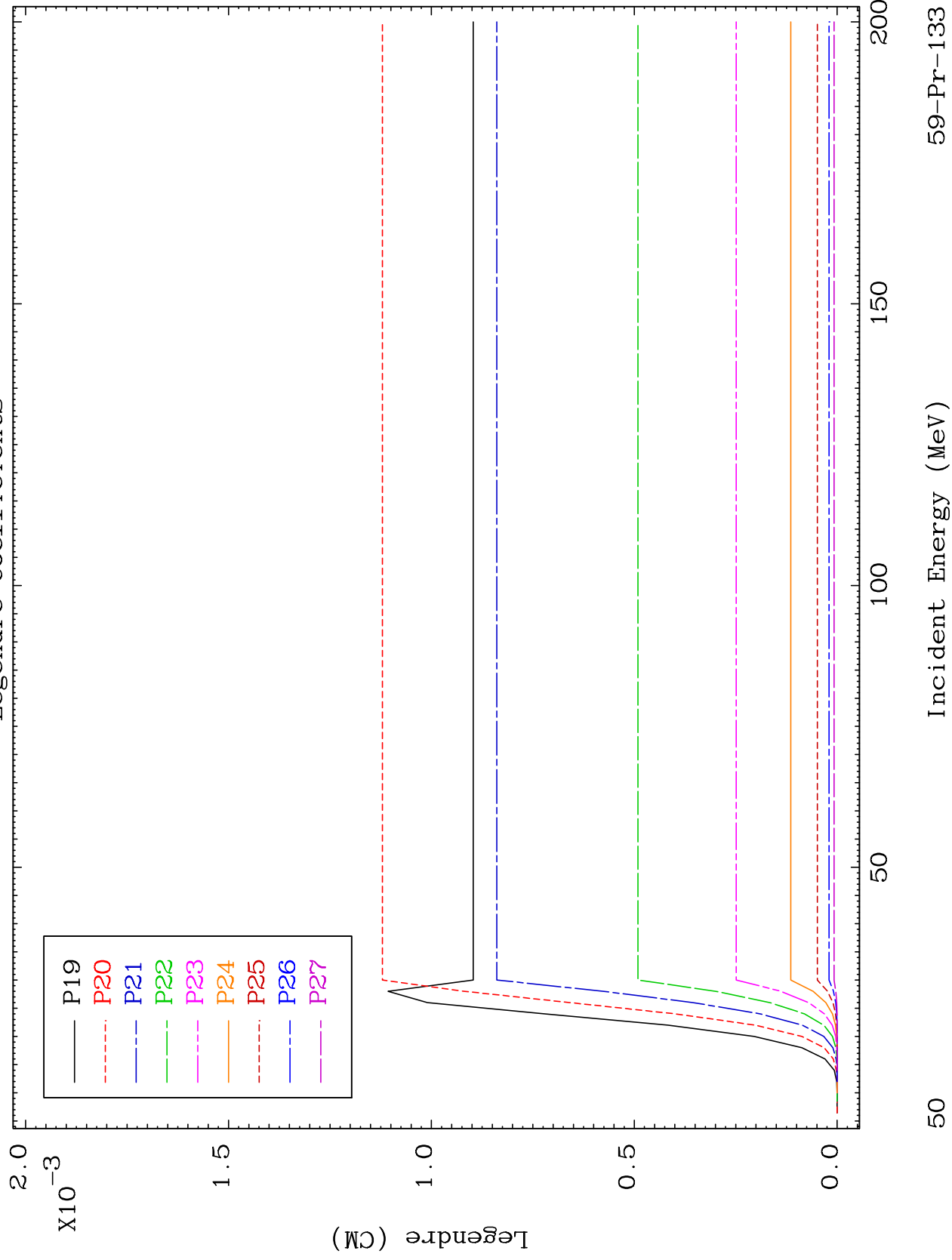
Incident Energy (MeV)

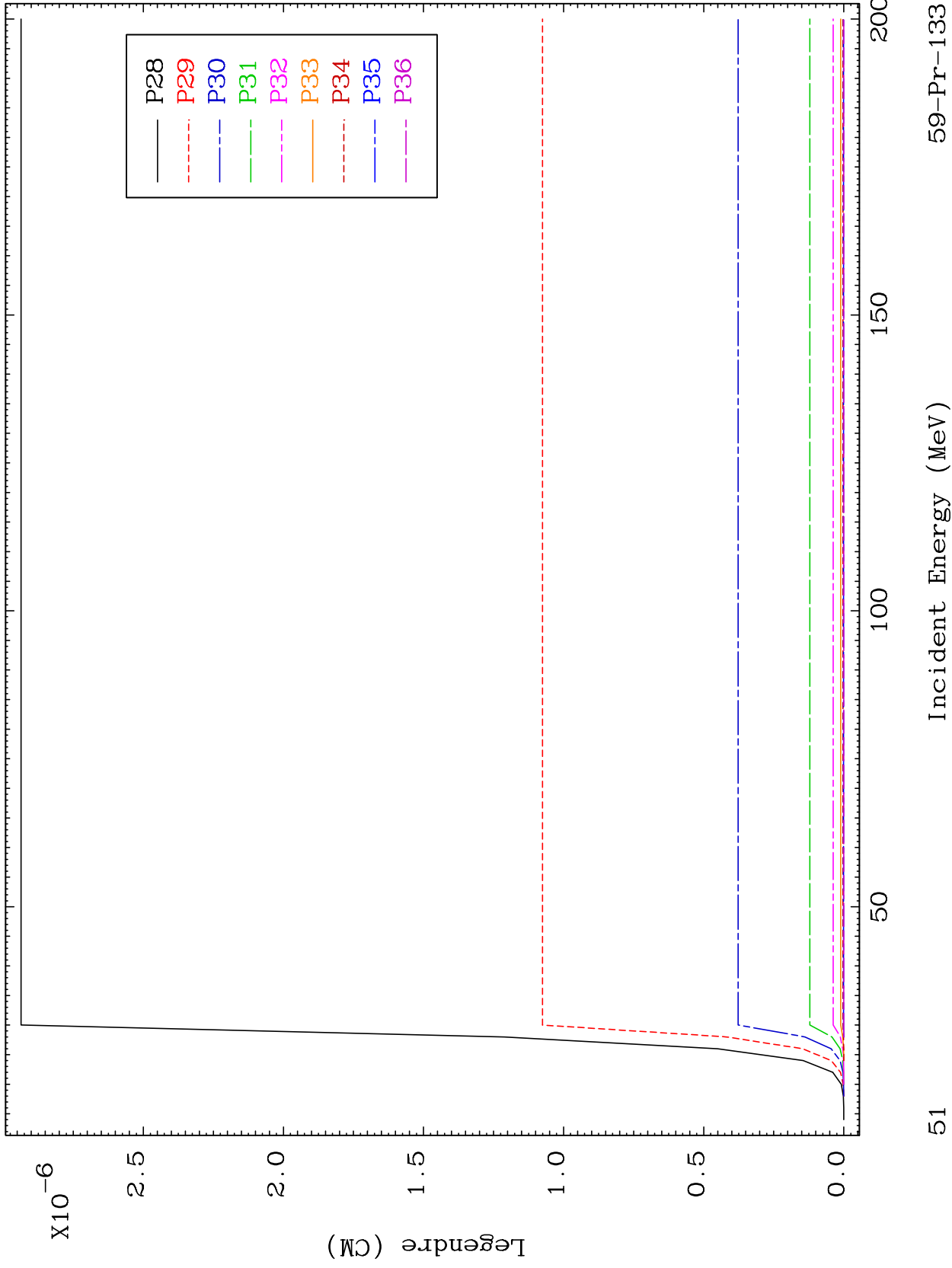
49

MAT 5901

475.8 keV (n,n') Level
Legendre Coefficients

59-Pr-133

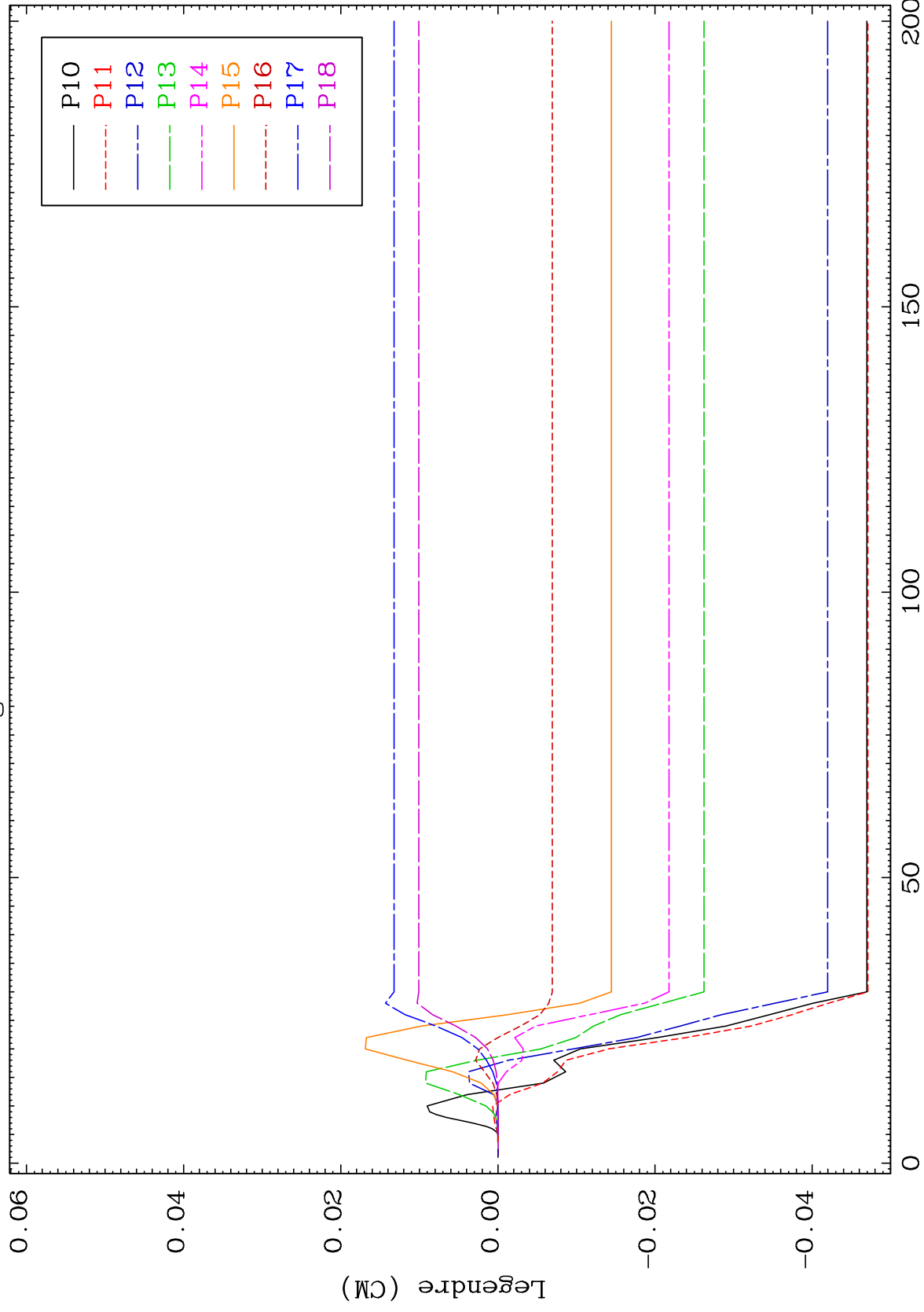




MAT 5901

488.3 keV (n,n') Level
Legendre Coefficients

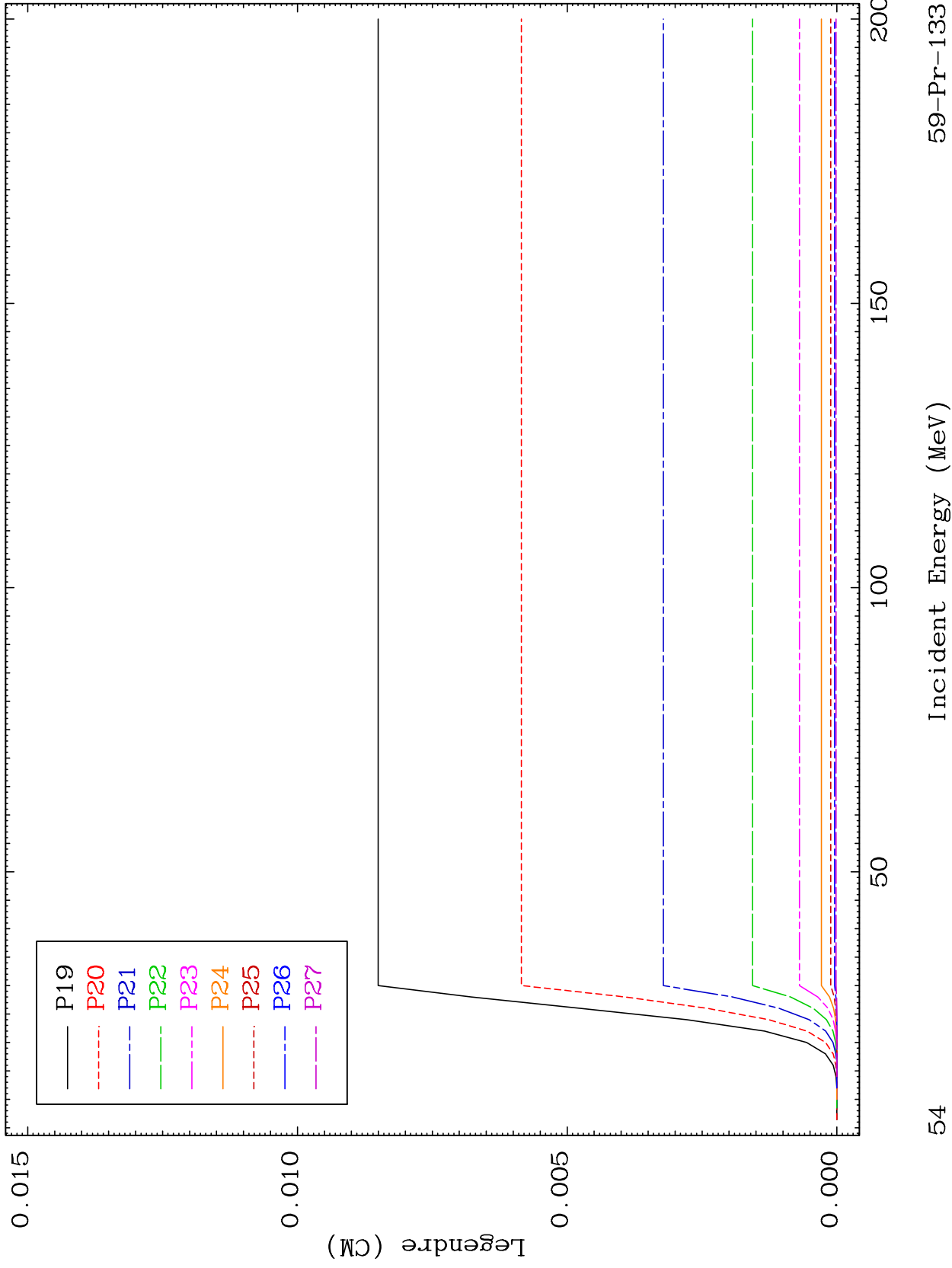
59-Pr-133



53

Incident Energy (MeV)

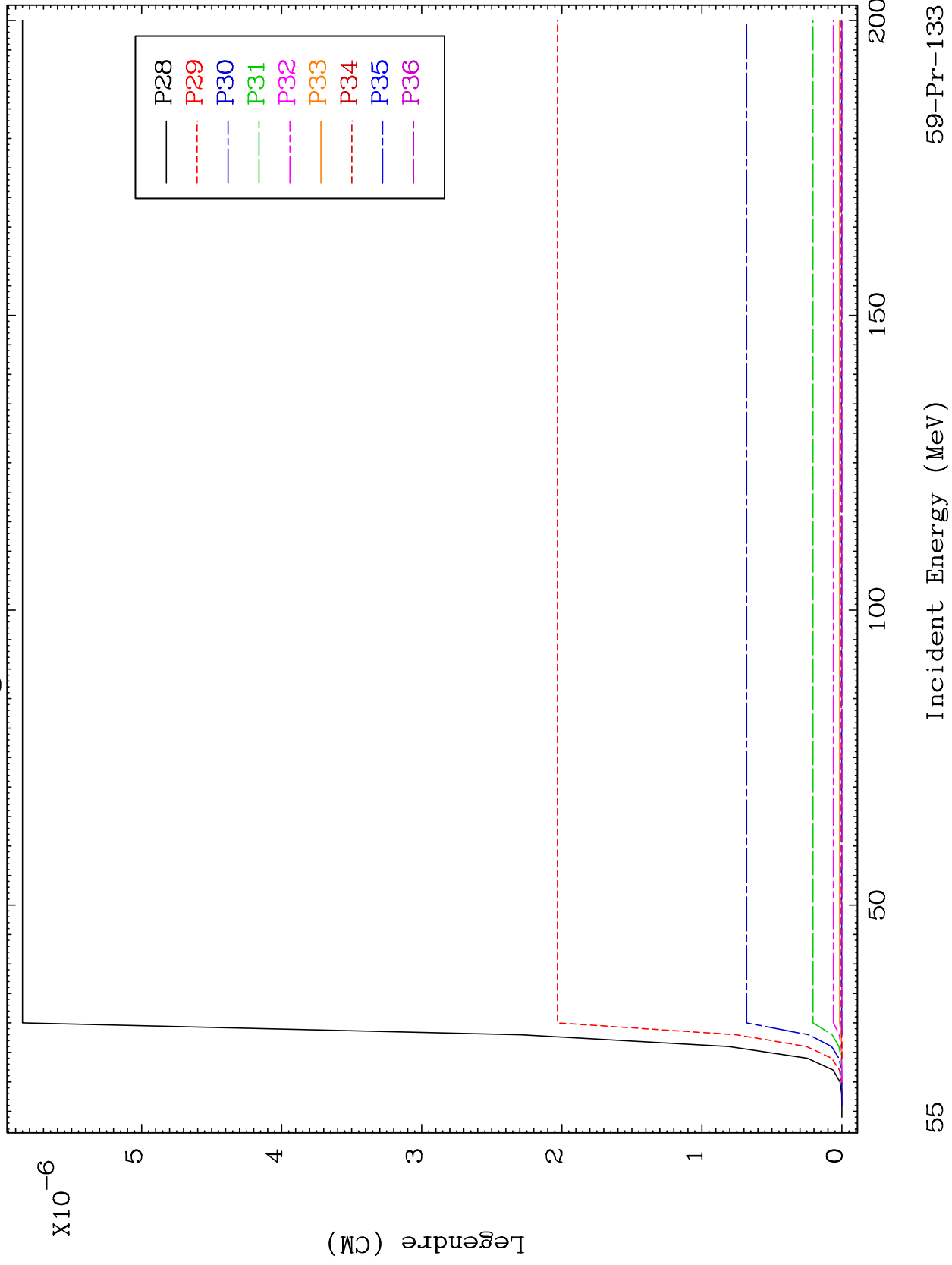
59-Pr-133



MAT 5901

488.3 keV (n,n') Level
Legendre Coefficients

59-Pr-133



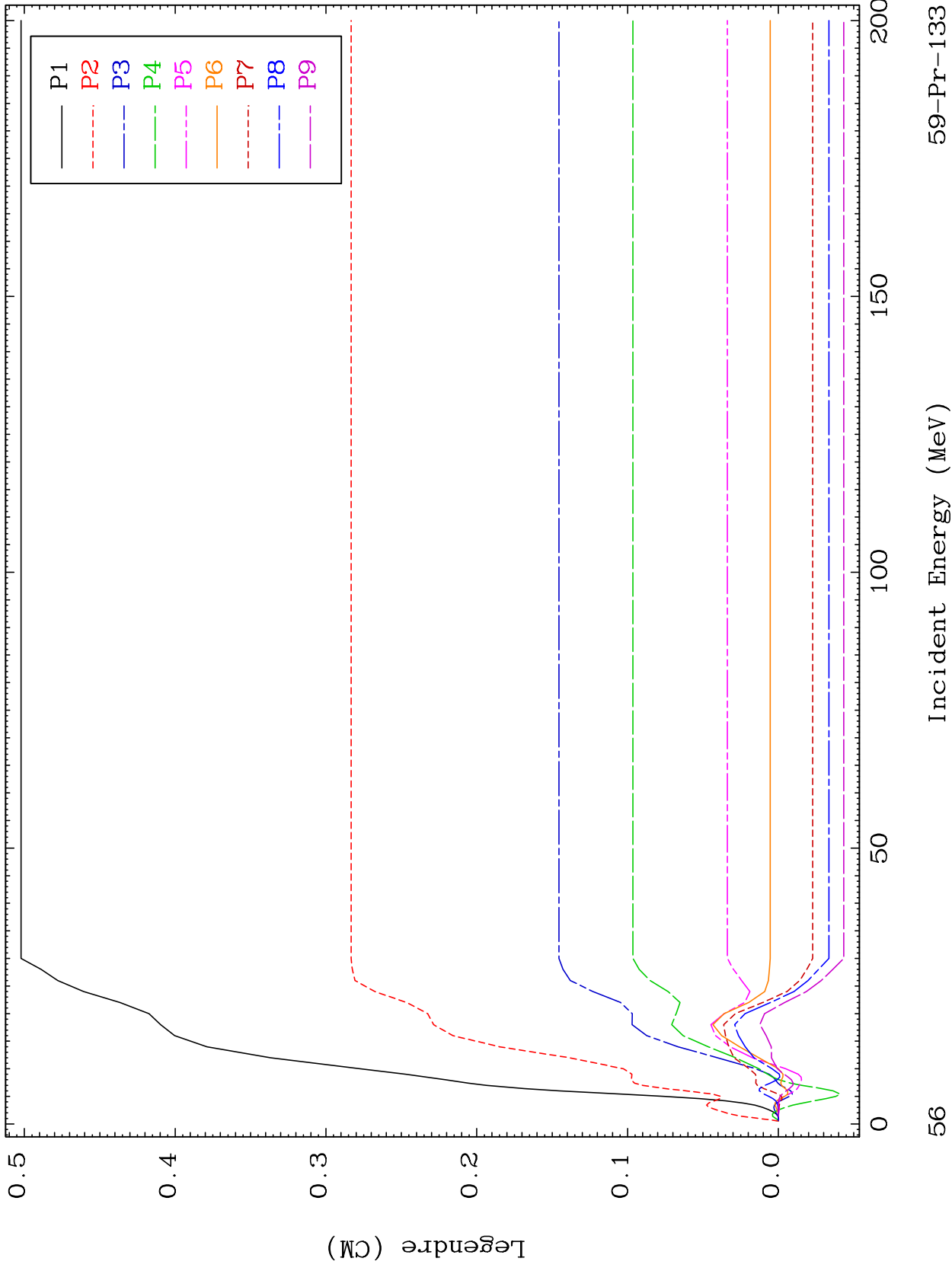
55

59-Pr-133

MAT 5901

489.8 keV (n,n') Level
Legendre Coefficients

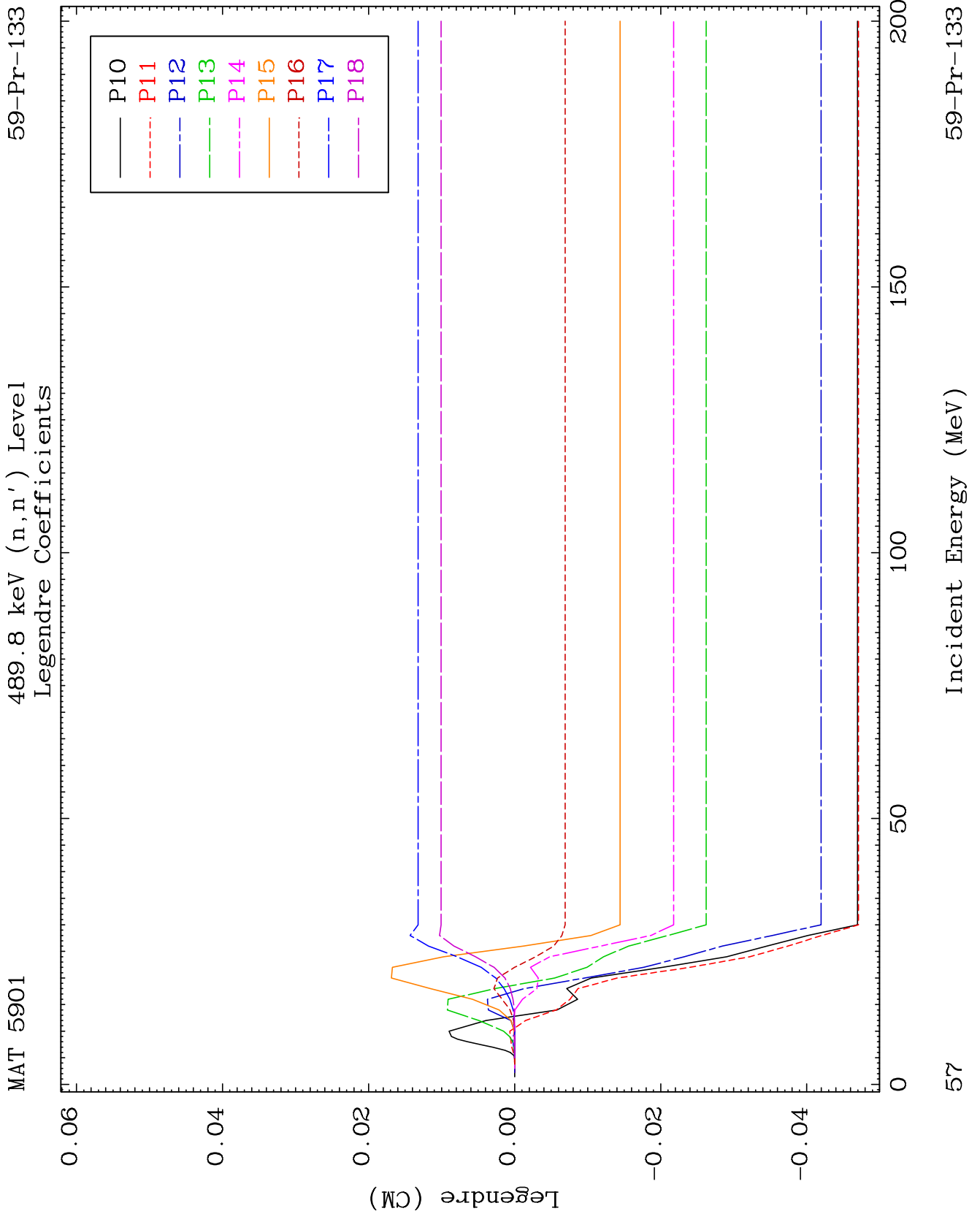
59-Pr-133

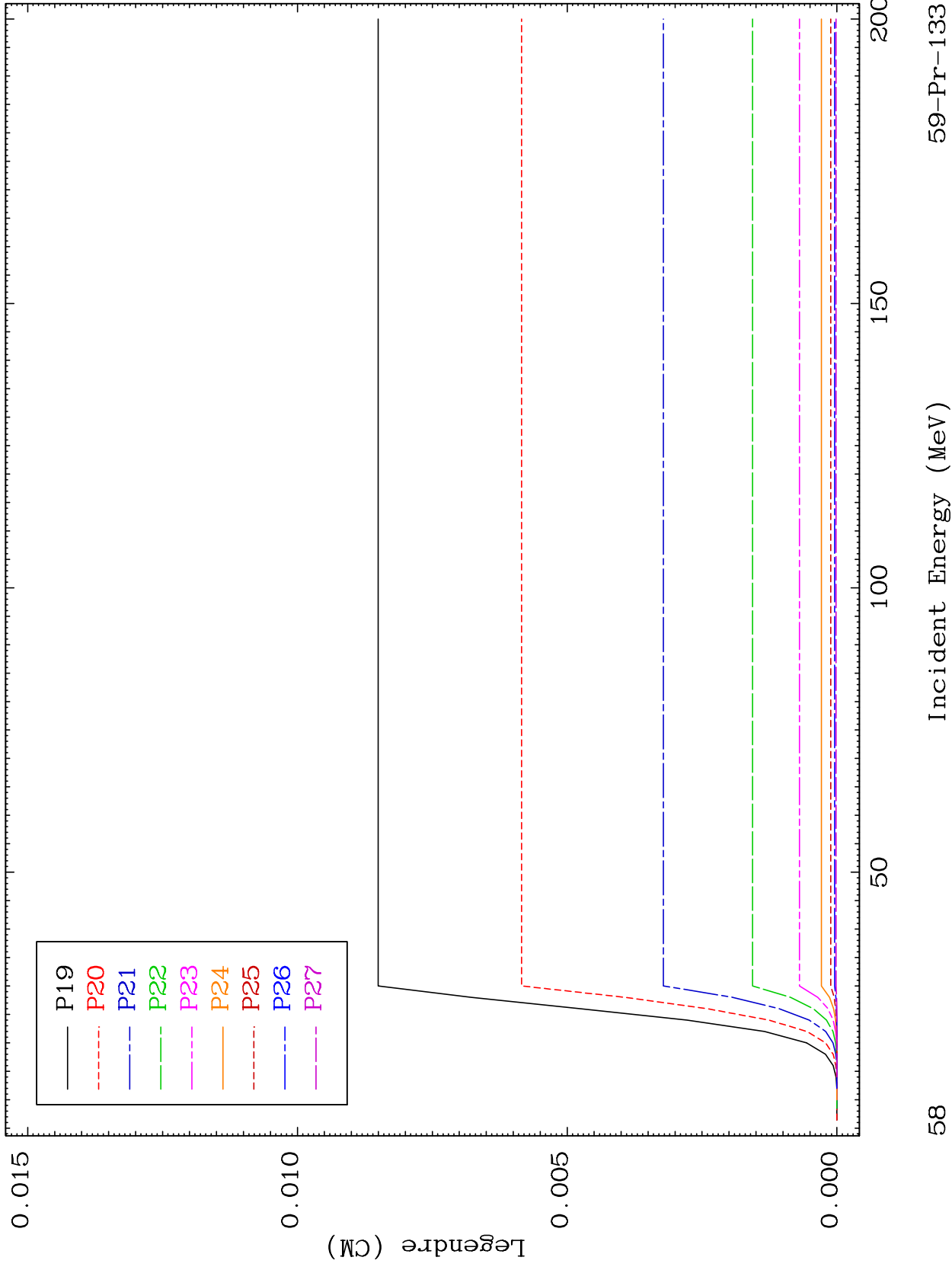


59-Pr-133

Incident Energy (MeV)

56

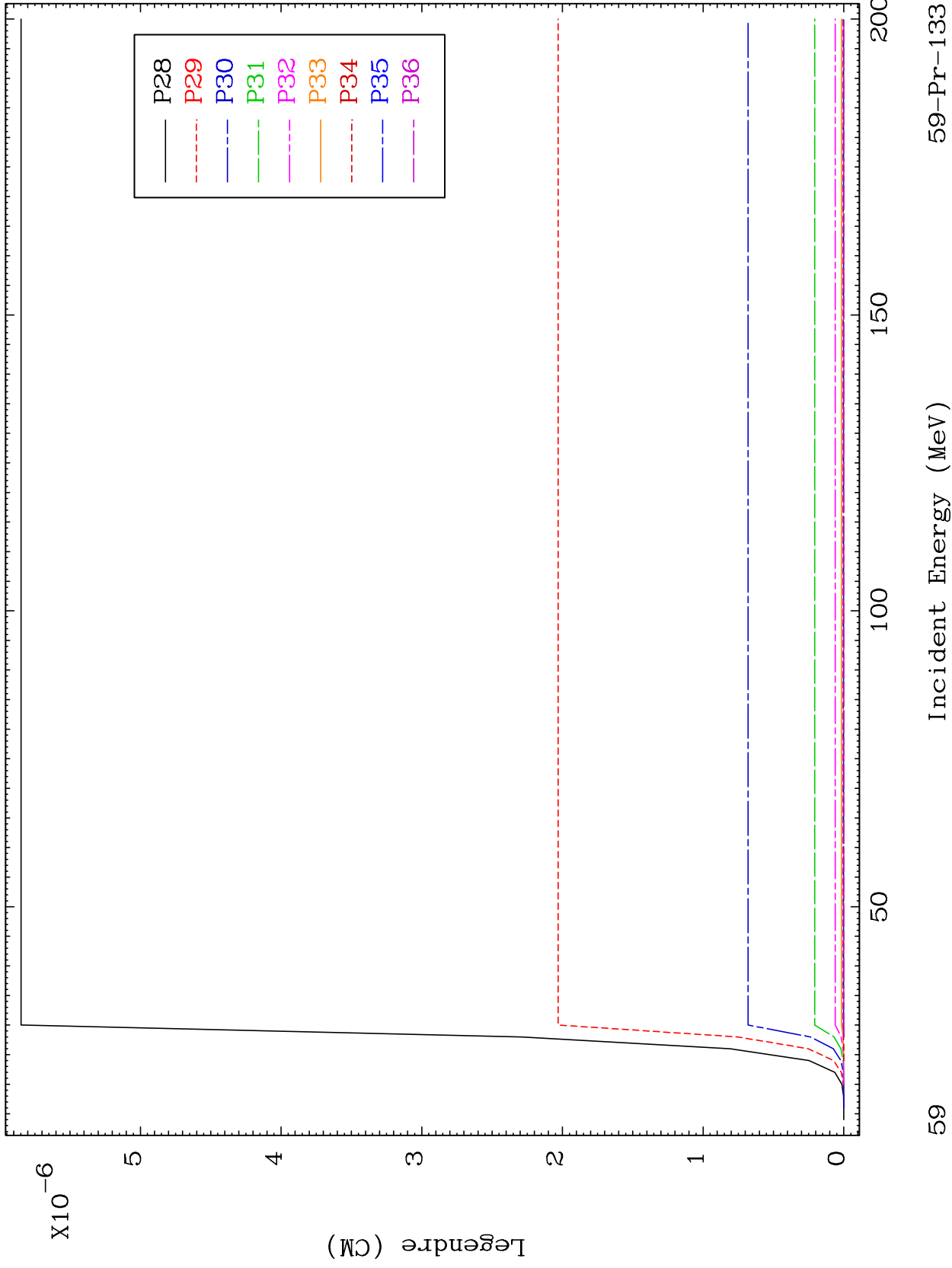




MAT 5901

489.8 keV (n,n') Level
Legendre Coefficients

59-Pr-133



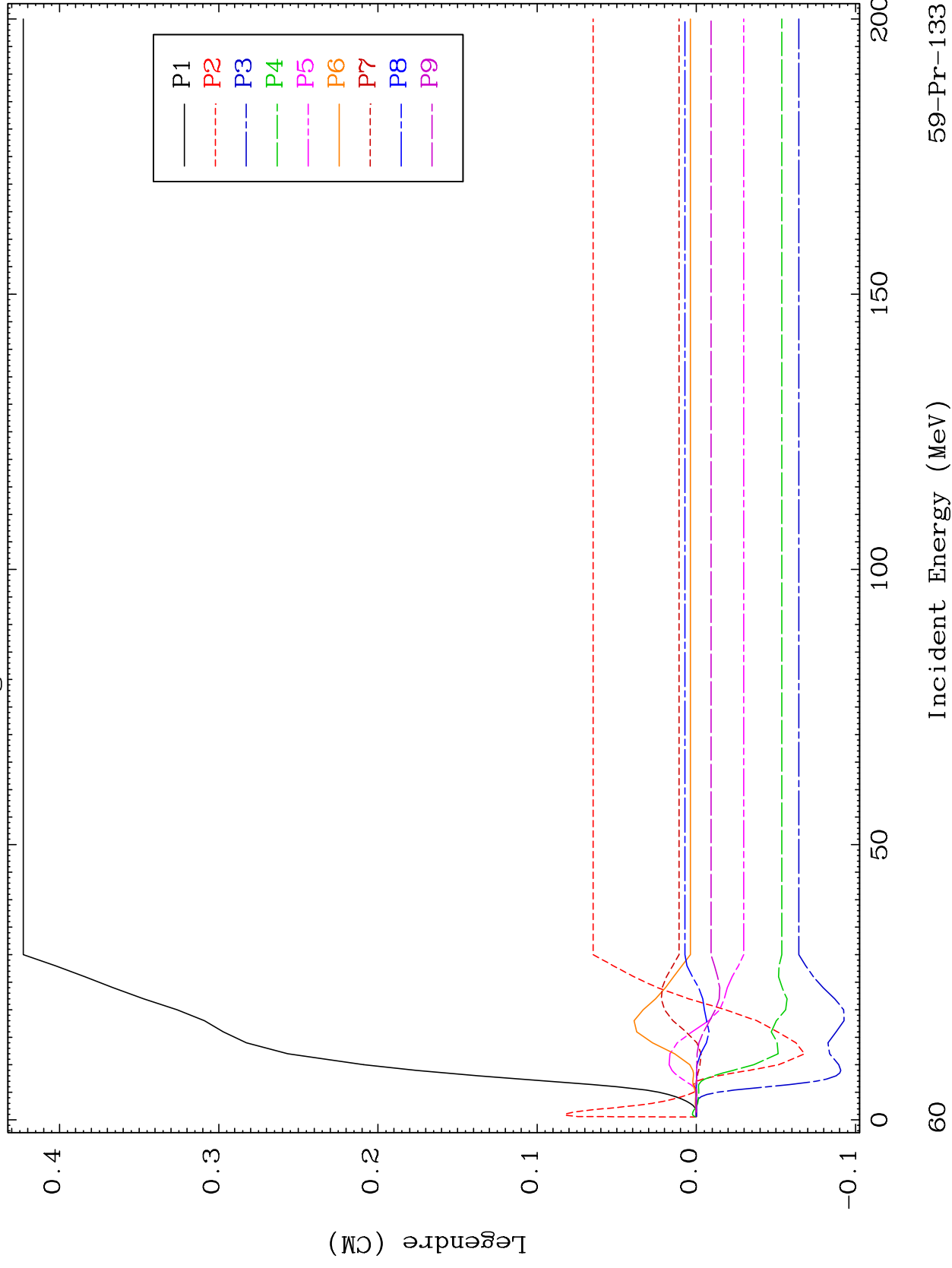
59

59-Pr-133

MAT 5901

502.3 keV (n,n') Level
Legendre Coefficients

59-Pr-133

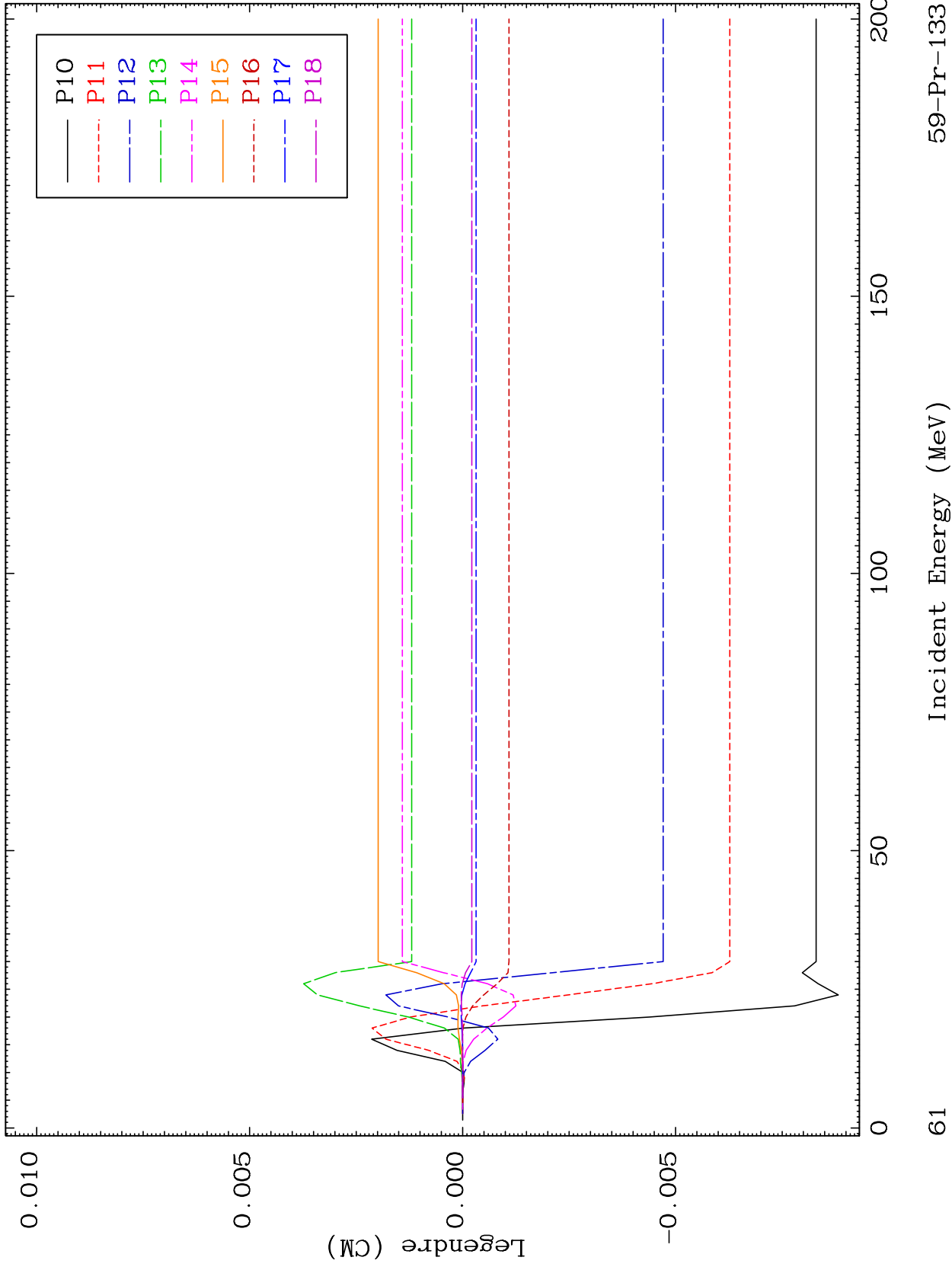


59-Pr-133

MAT 5901

502.3 keV (n,n') Level
Legendre Coefficients

59-Pr-133



59-Pr-133

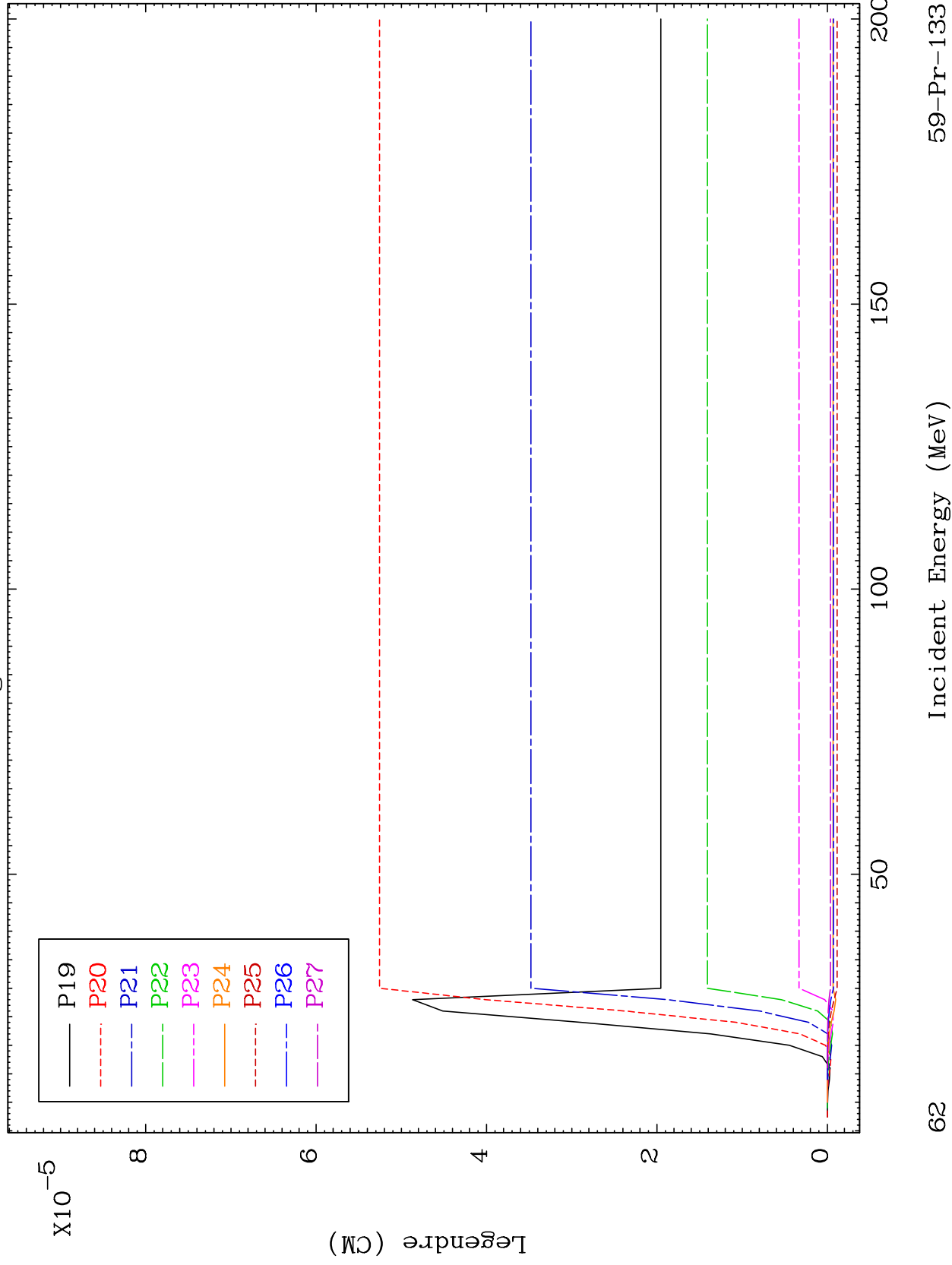
Incident Energy (MeV)

61

MAT 5901

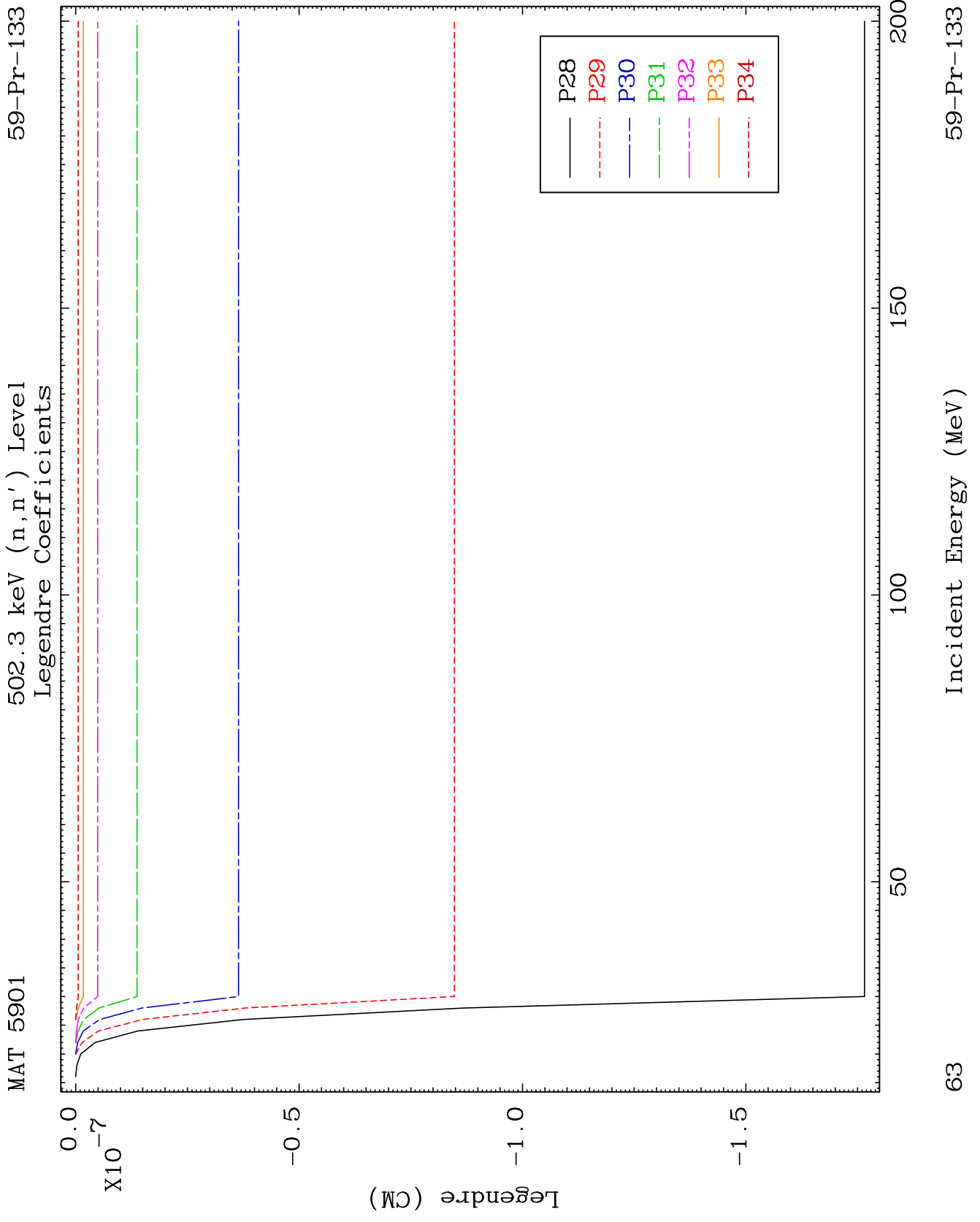
502.3 keV (n,n') Level
Legendre Coefficients

59-Pr-133



62

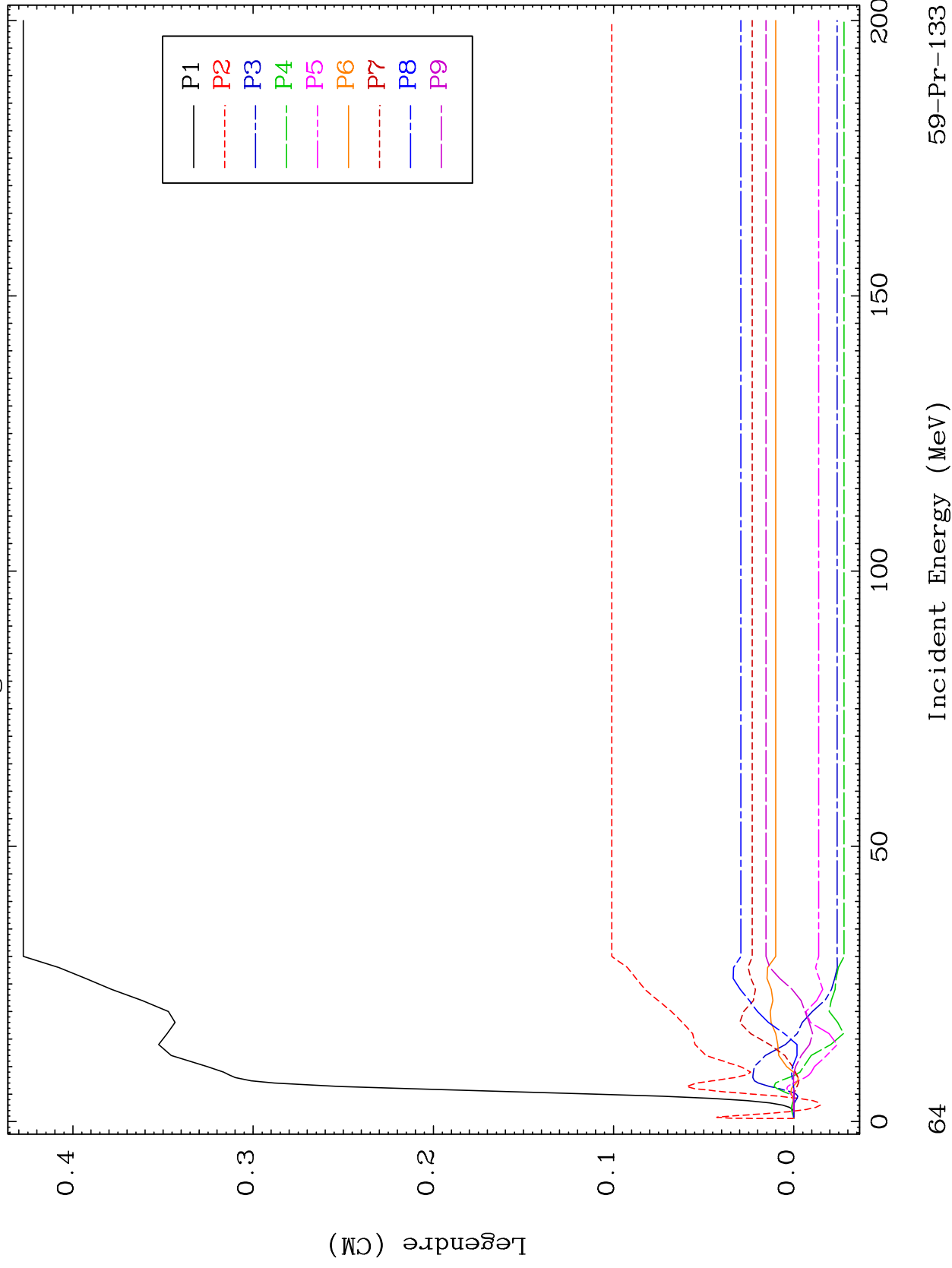
200



MAT 5901

551.4 keV (n,n') Level
Legendre Coefficients

59-Pr-133



59-Pr-133

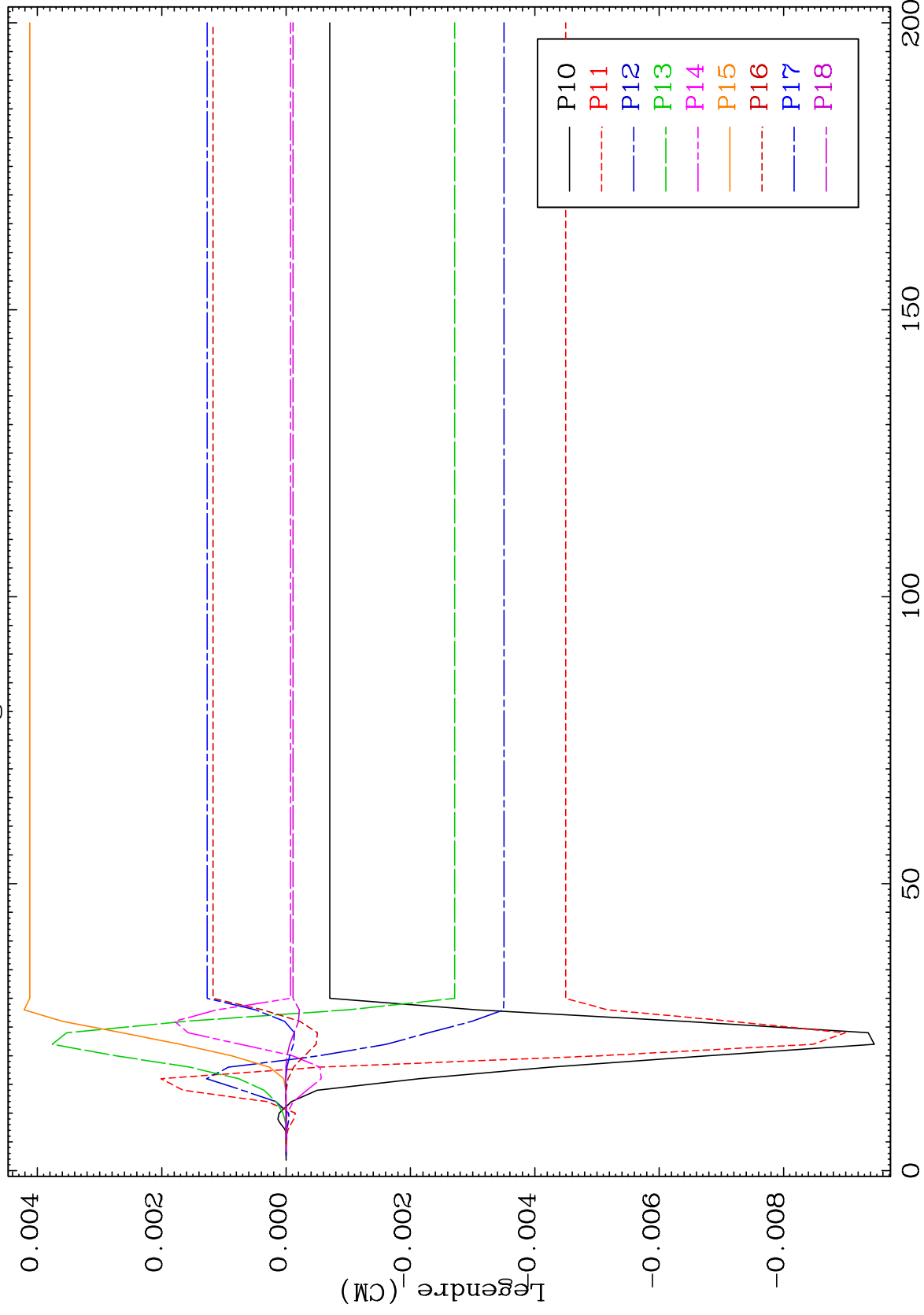
Incident Energy (MeV)

64

MAT 5901

551.4 keV (n,n') Level
Legendre Coefficients

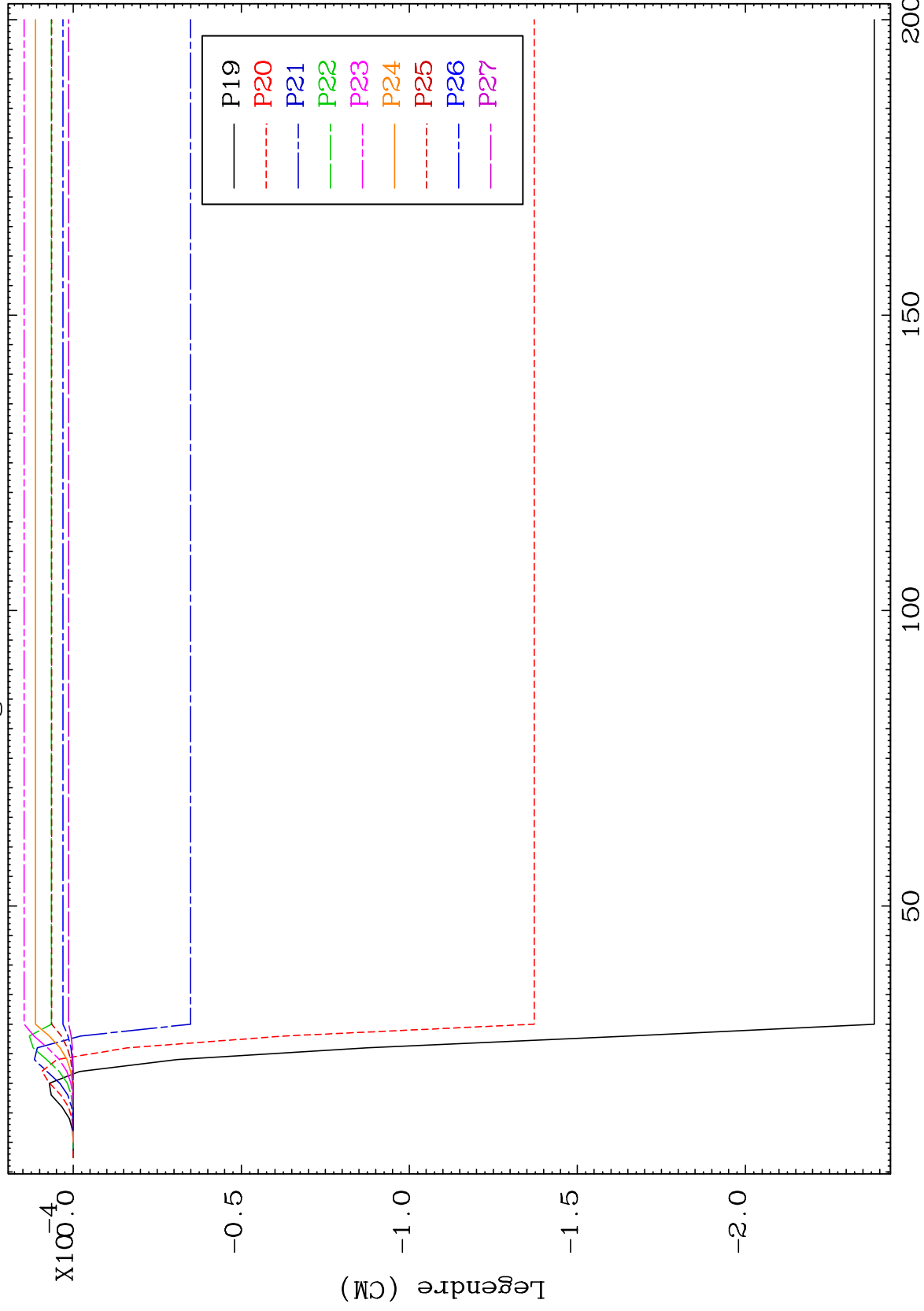
59-Pr-133



65

Incident Energy (MeV)

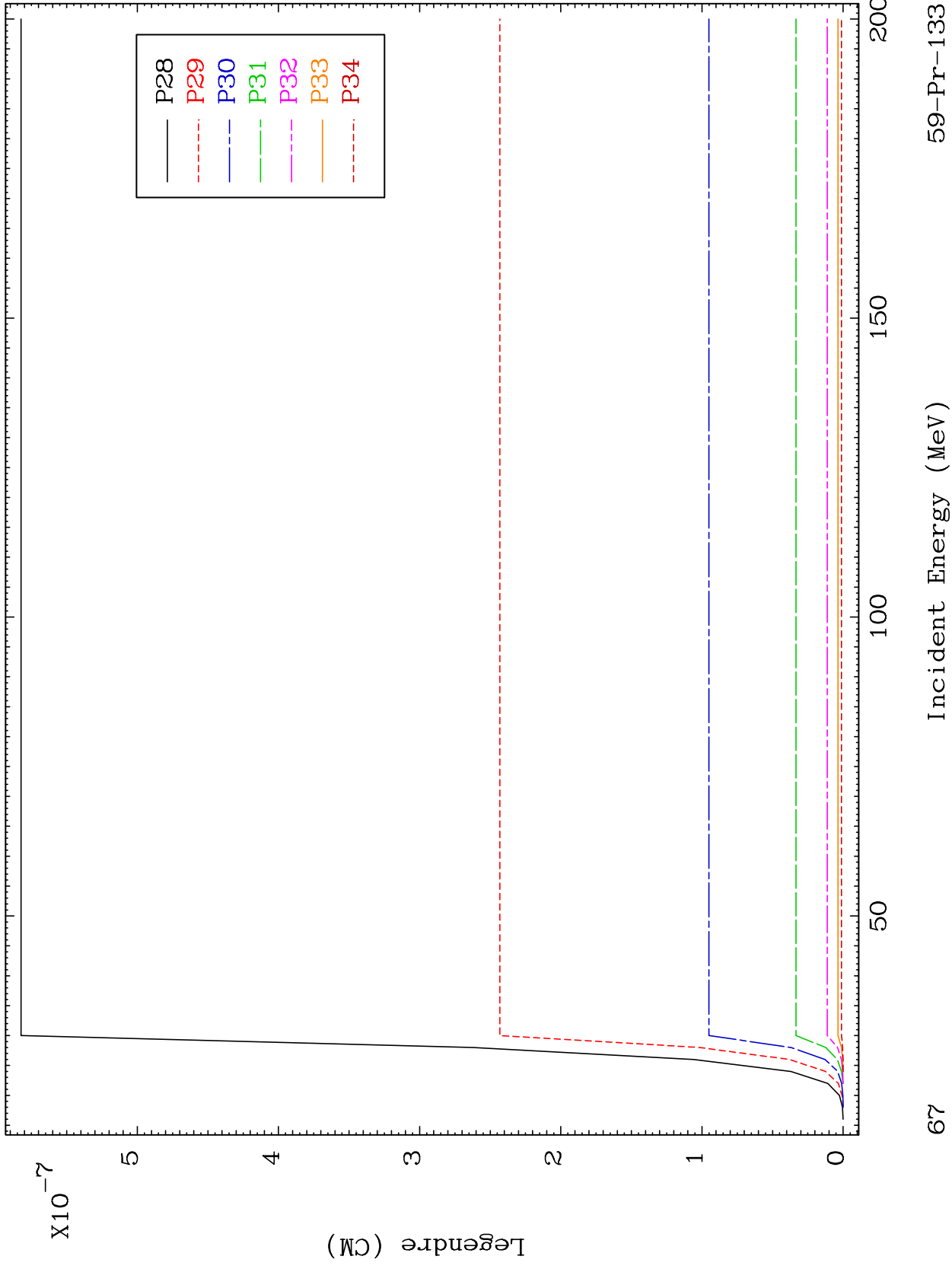
59-Pr-133



MAT 5901

551.4 keV (n,n') Level
Legendre Coefficients

59-Pr-133



67

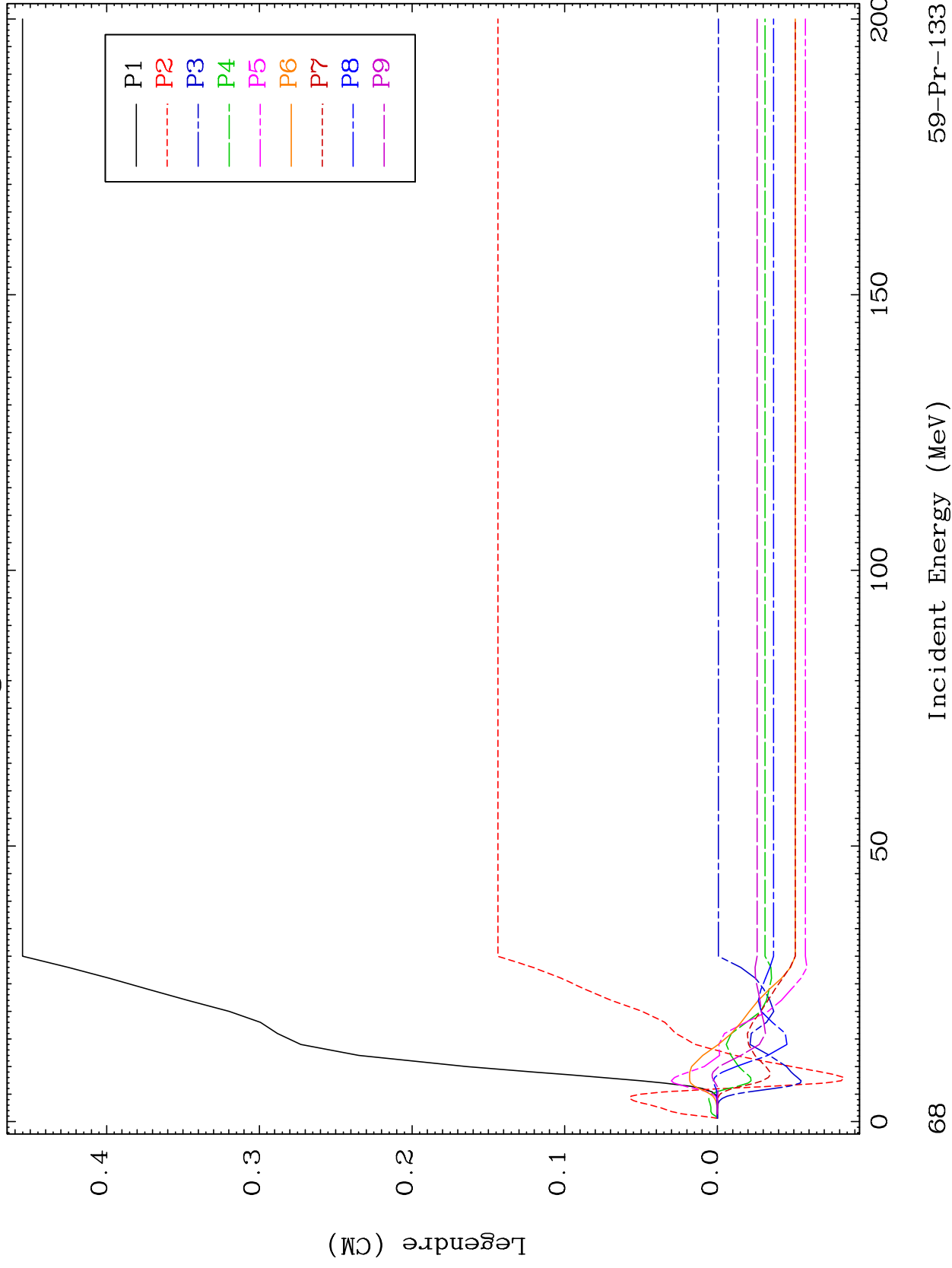
Incident Energy (MeV)

59-Pr-133

MAT 5901

586.3 keV (n,n') Level
Legendre Coefficients

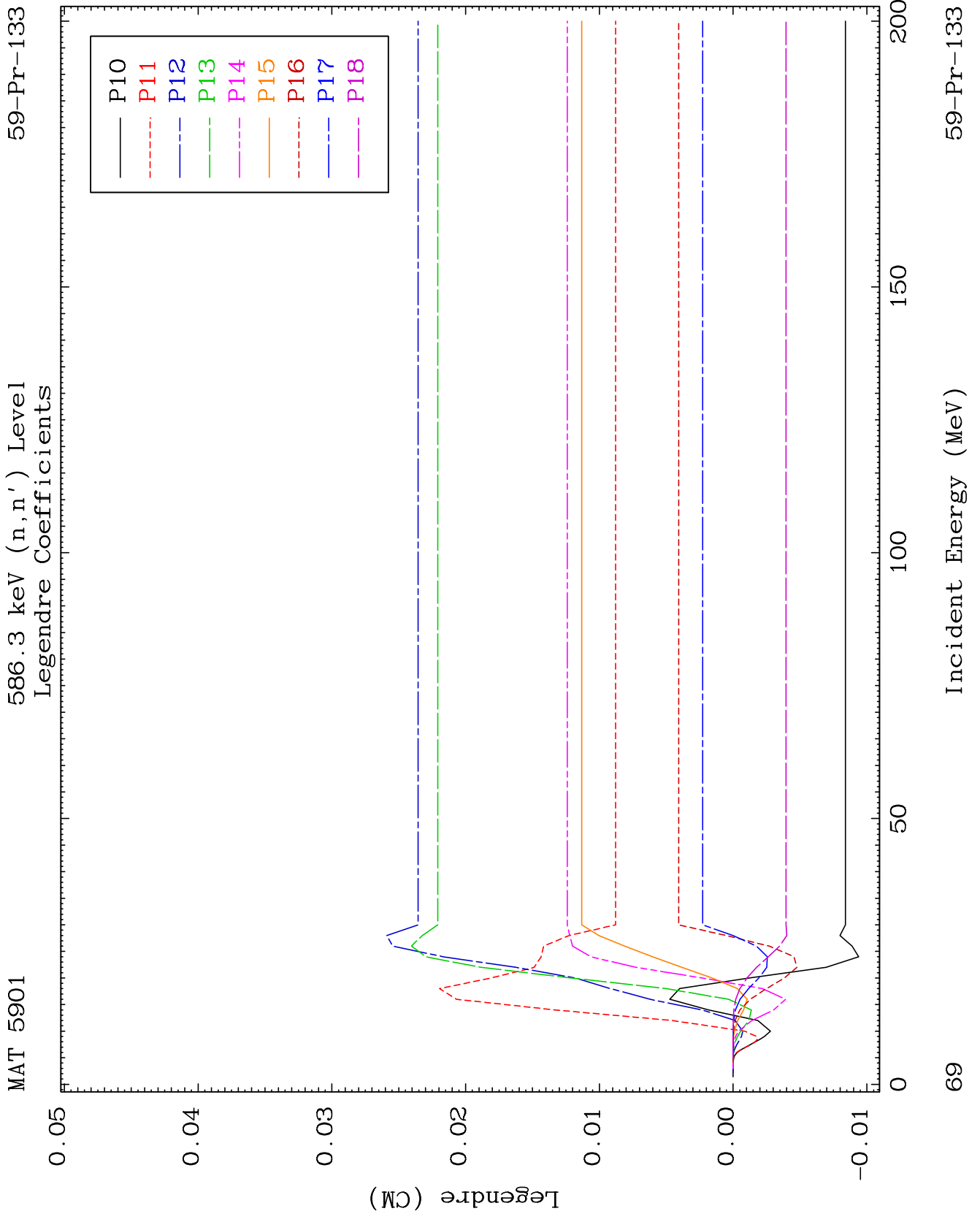
59-Pr-133



59-Pr-133

Incident Energy (MeV)

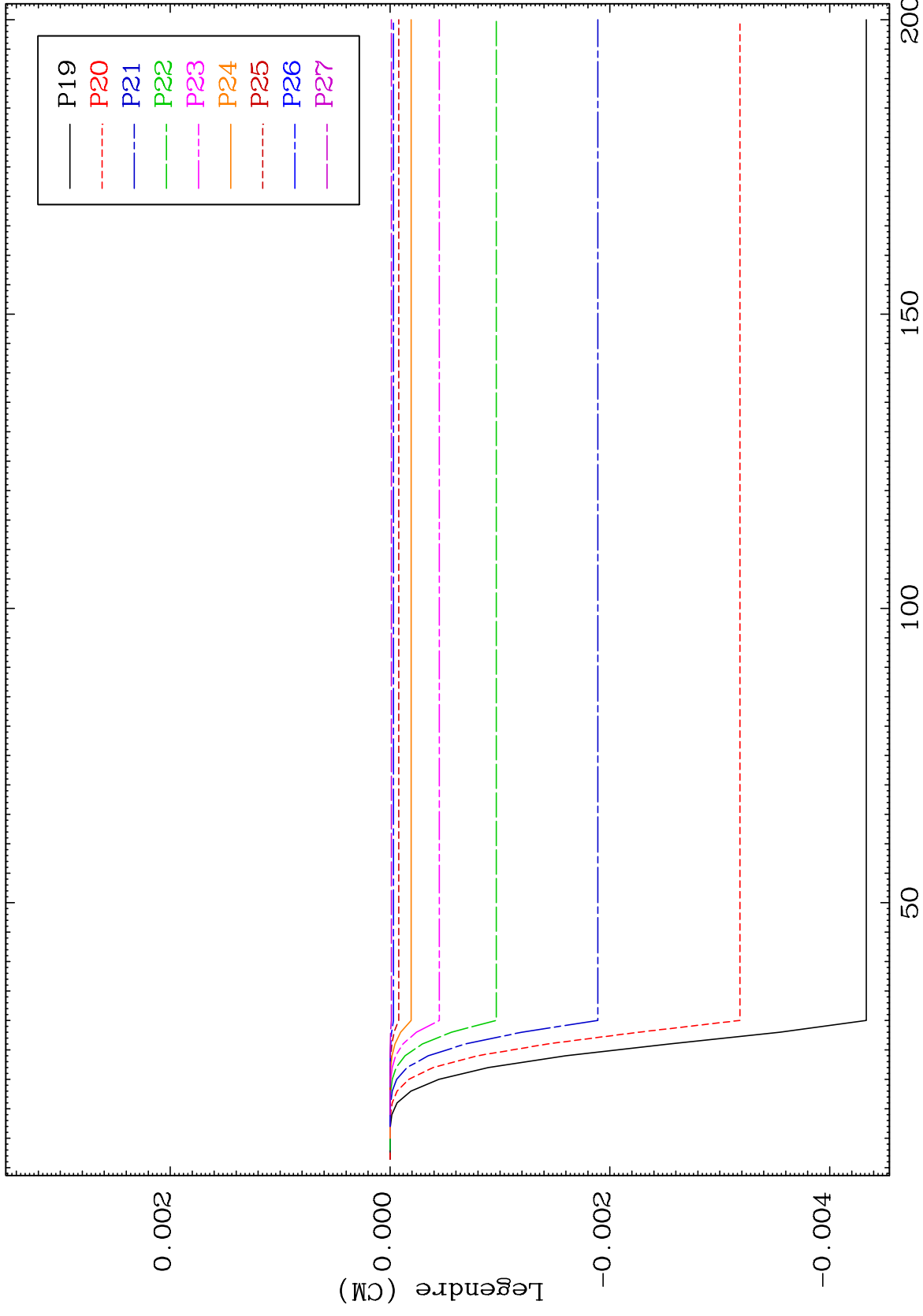
68



MAT 5901

586.3 keV (n,n') Level
Legendre Coefficients

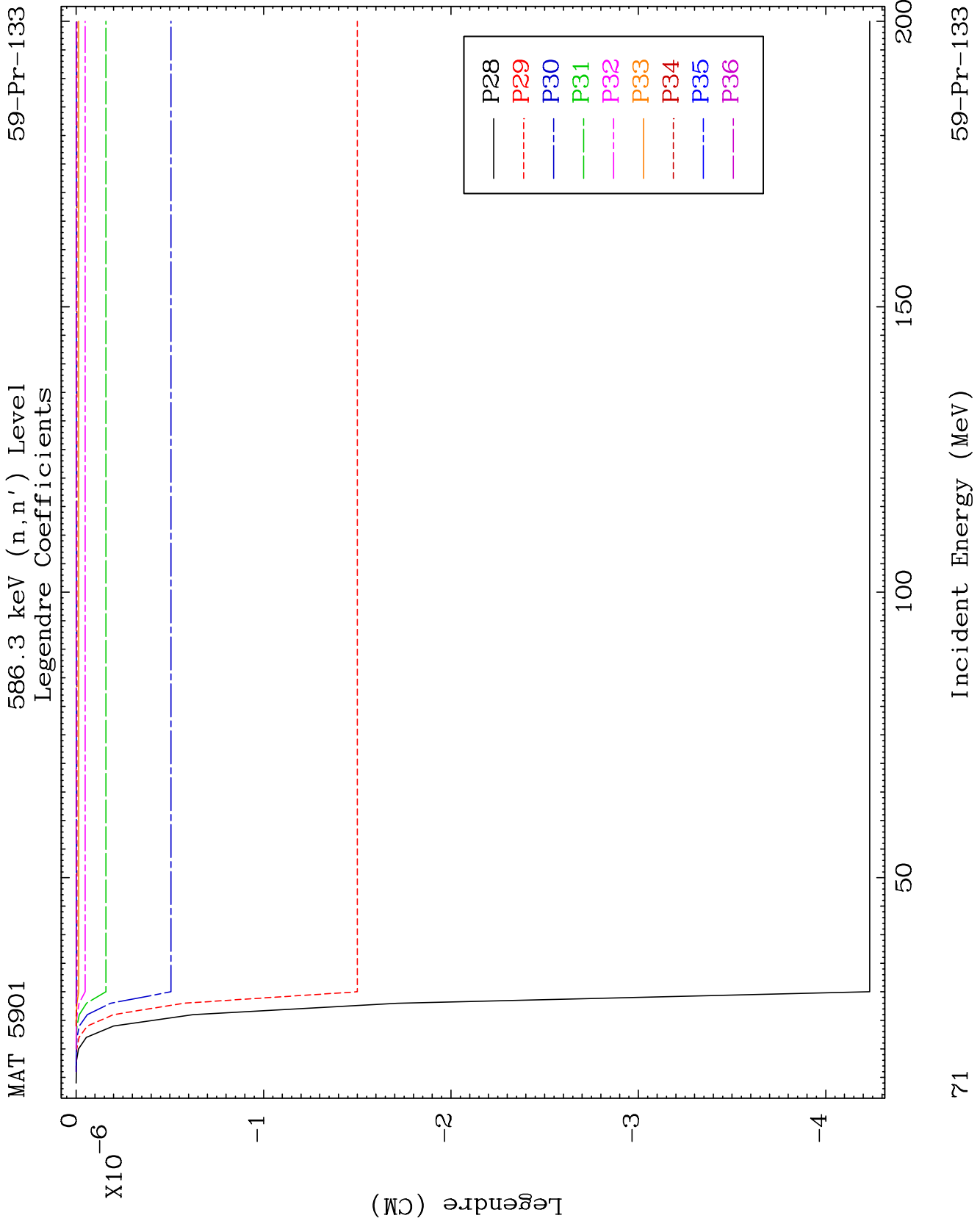
59-Pr-133



70

Incident Energy (MeV)

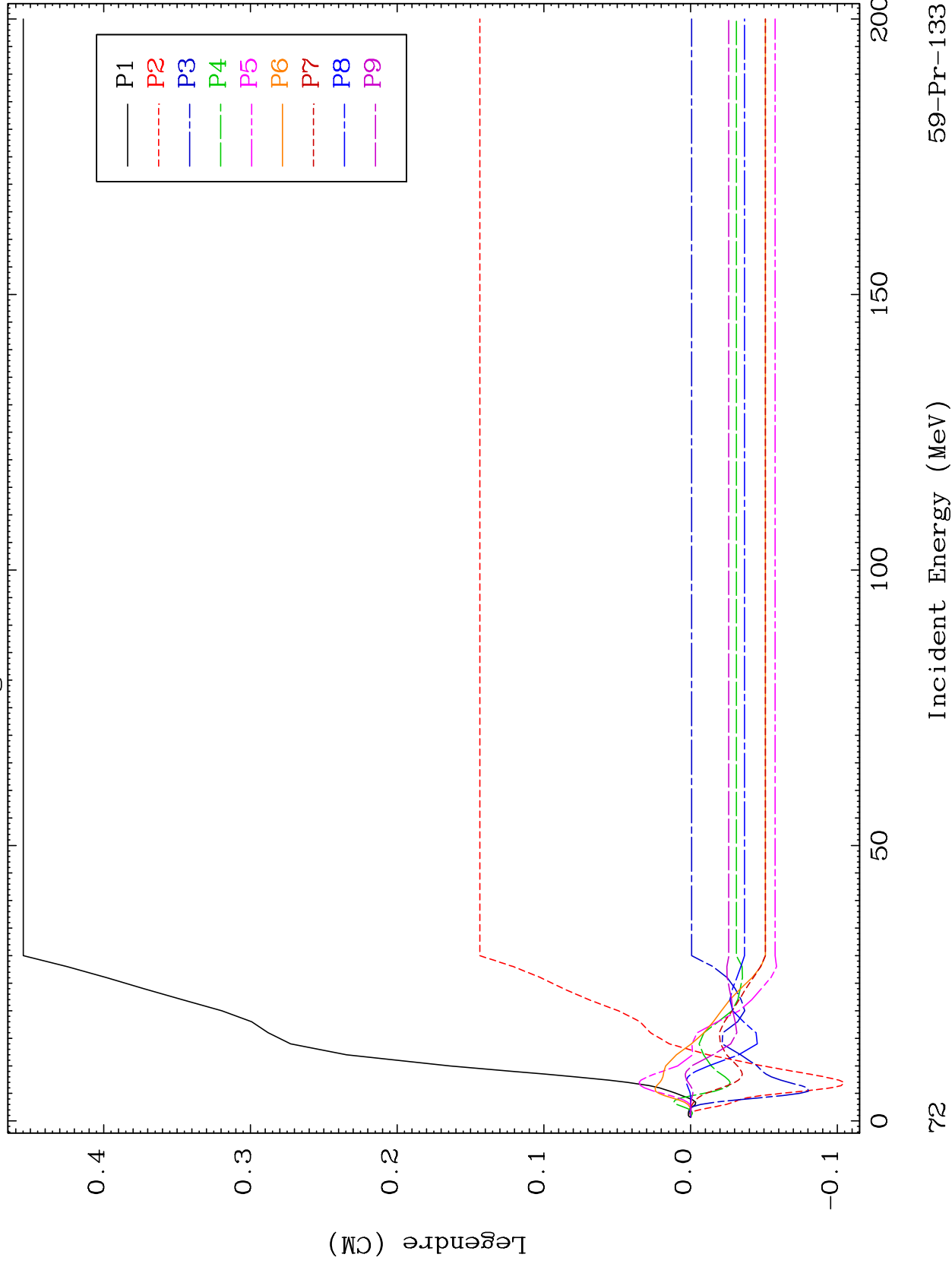
59-Pr-133



MAT 5901

619.1 keV (n,n') Level
Legendre Coefficients

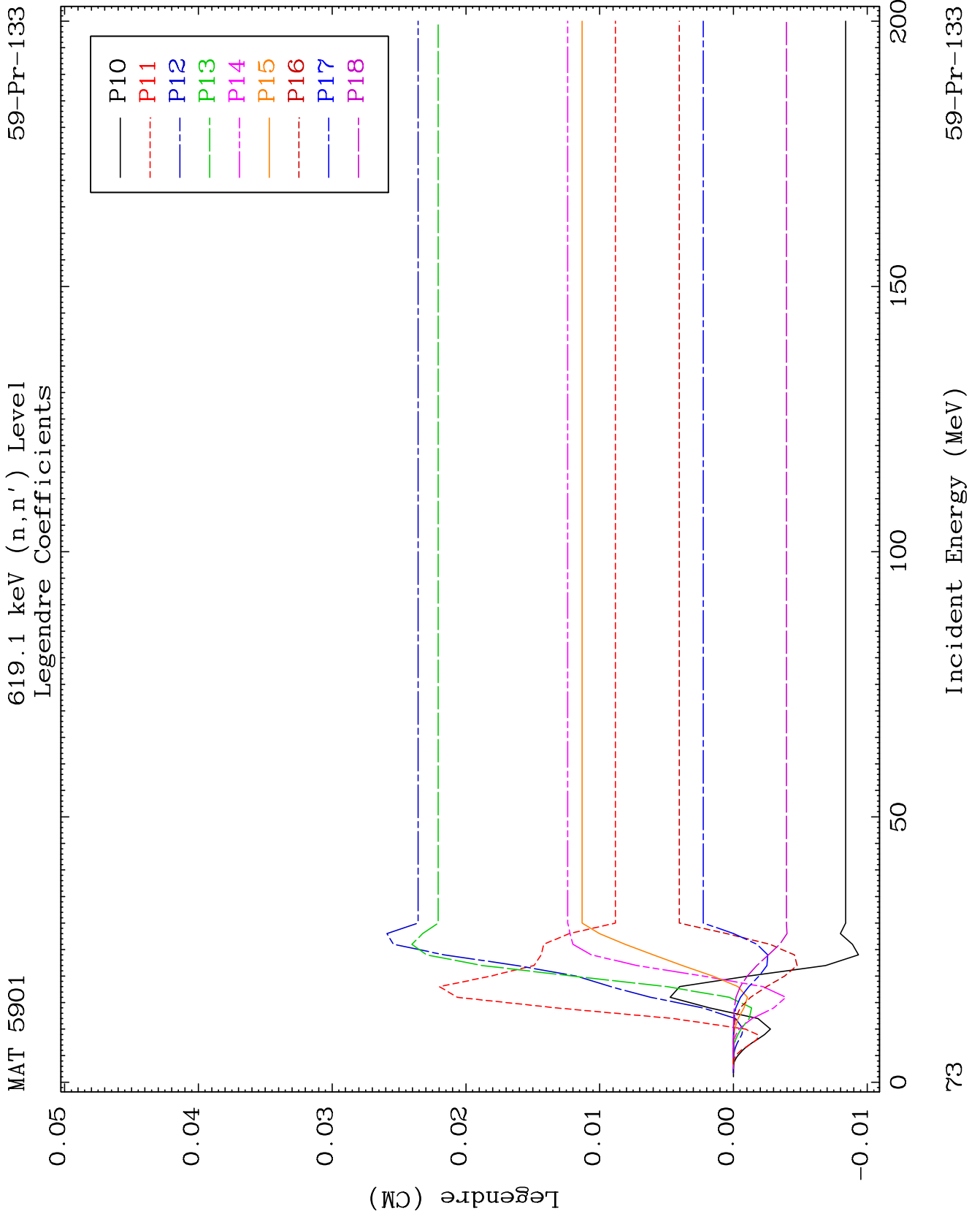
59-Pr-133



59-Pr-133

Incident Energy (MeV)

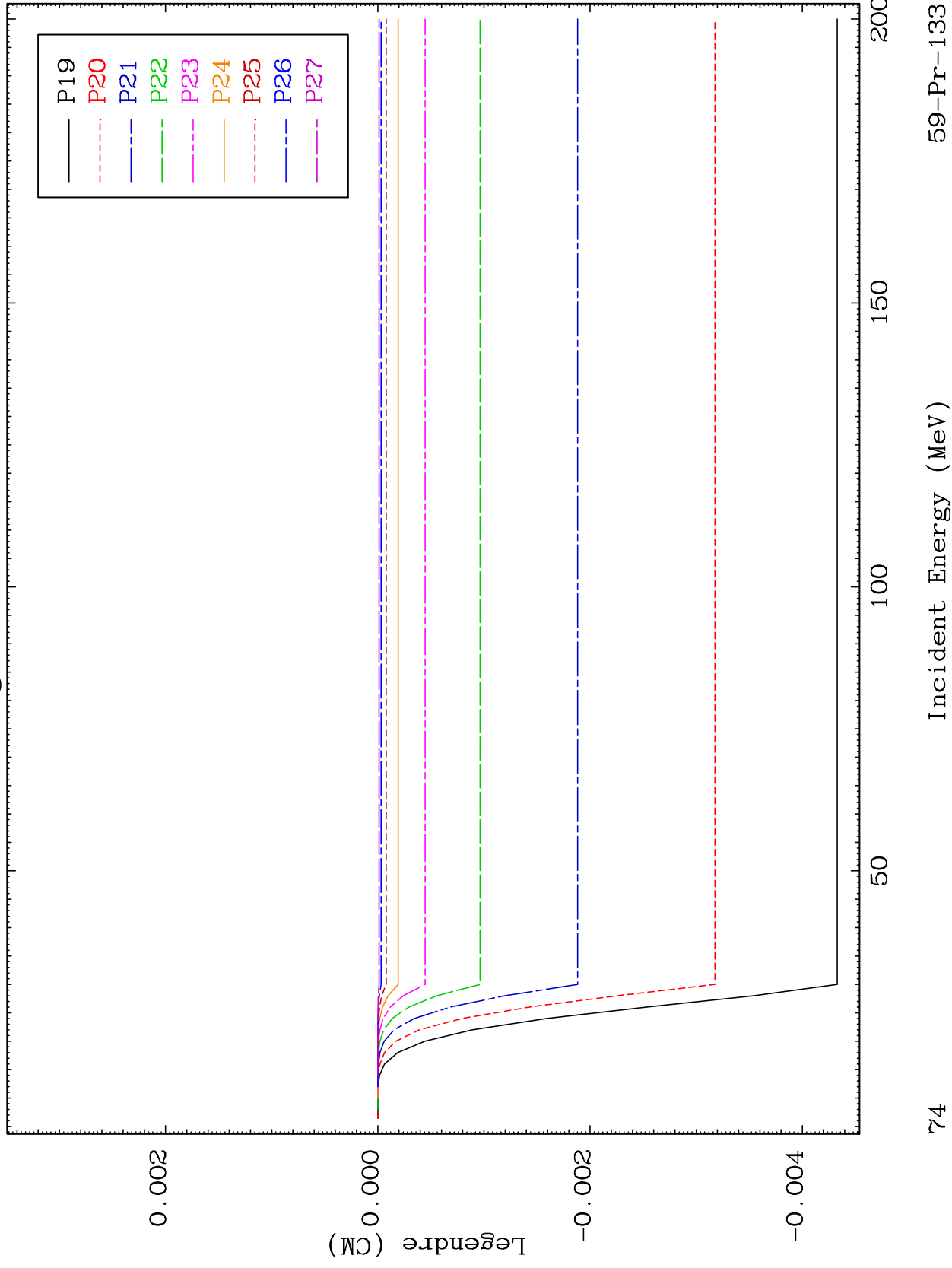
72



MAT 5901

619.1 keV (n,n') Level
Legendre Coefficients

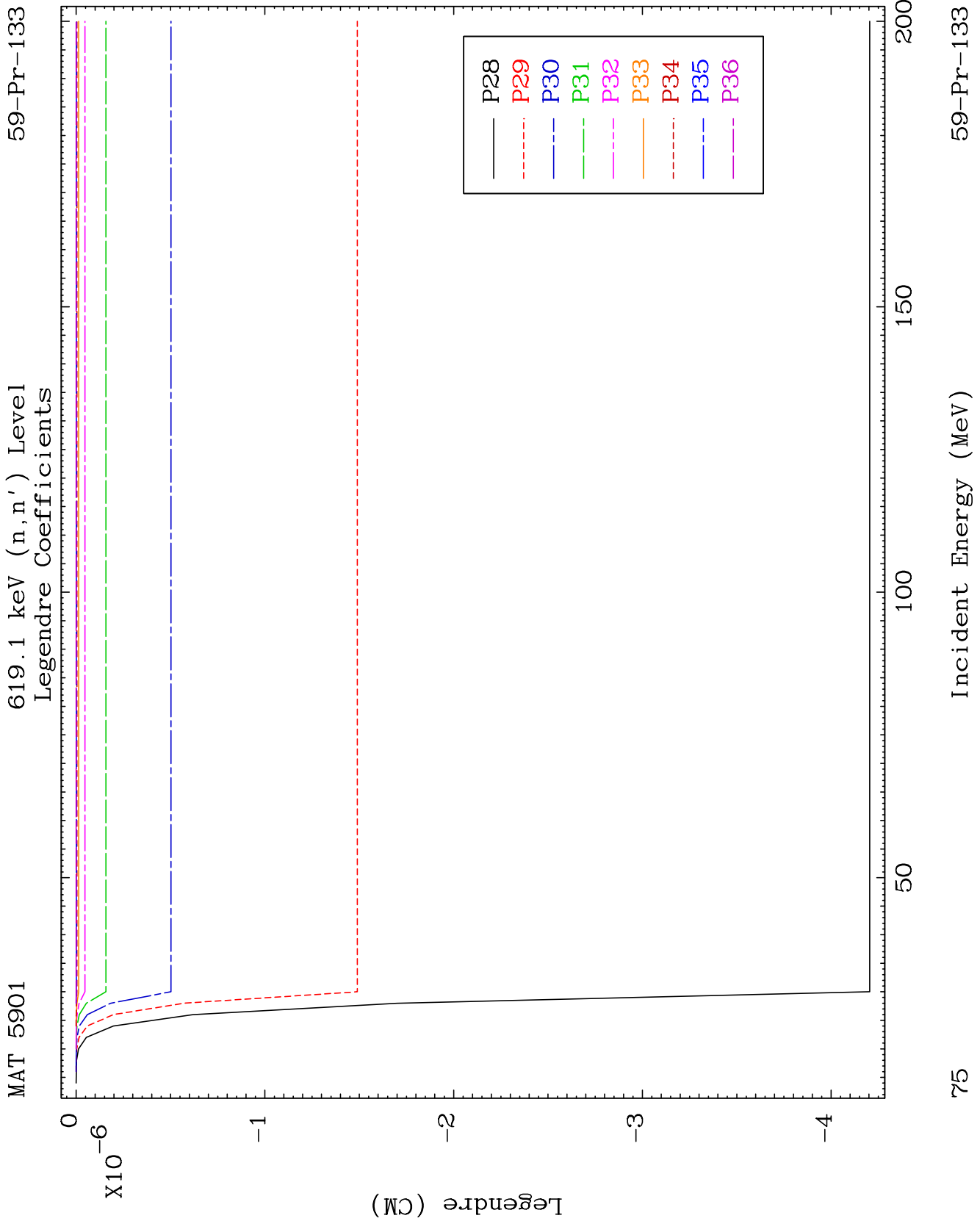
59-Pr-133



74

Incident Energy (MeV)

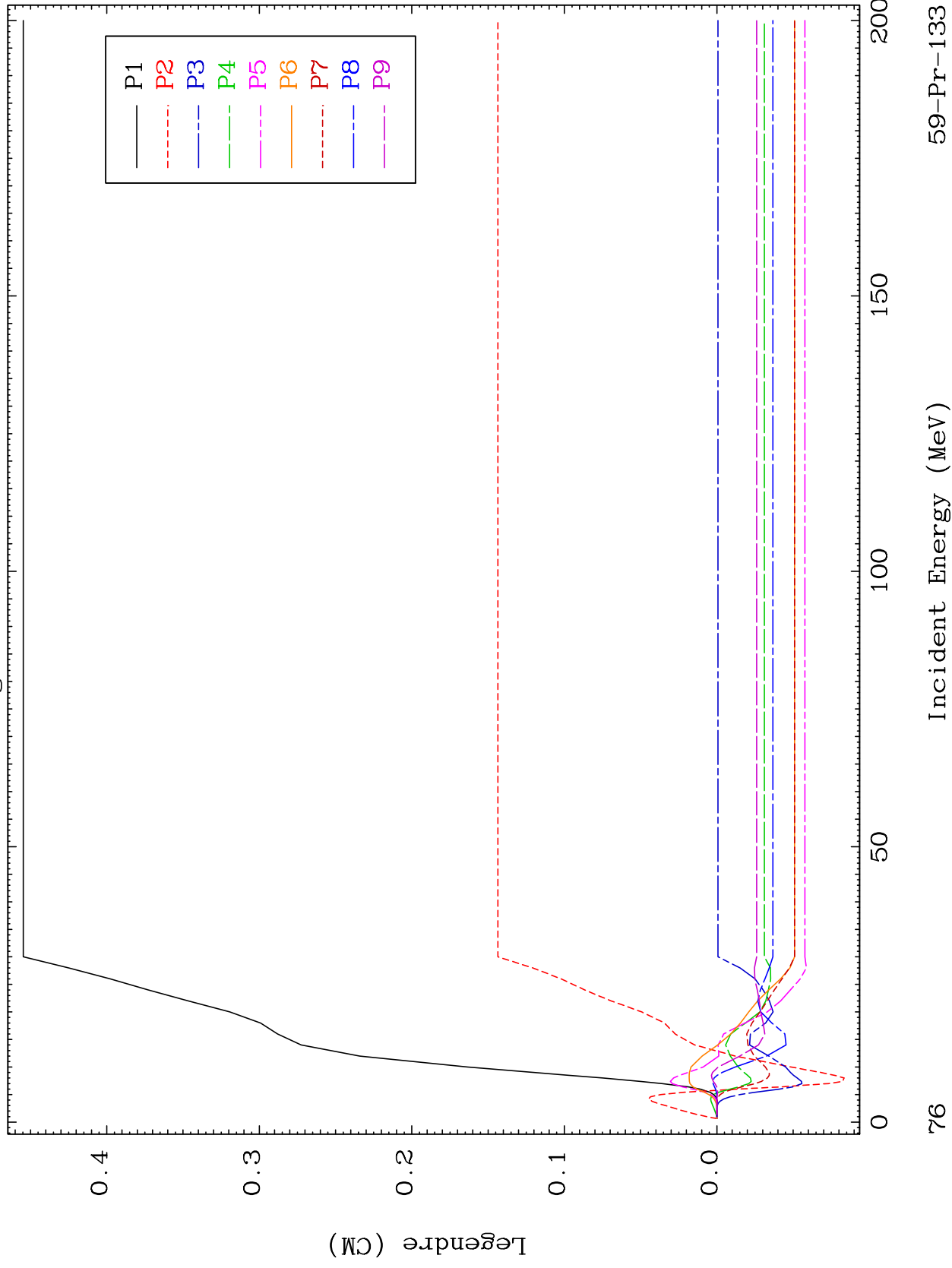
59-Pr-133



MAT 5901

639.1 keV (n,n') Level
Legendre Coefficients

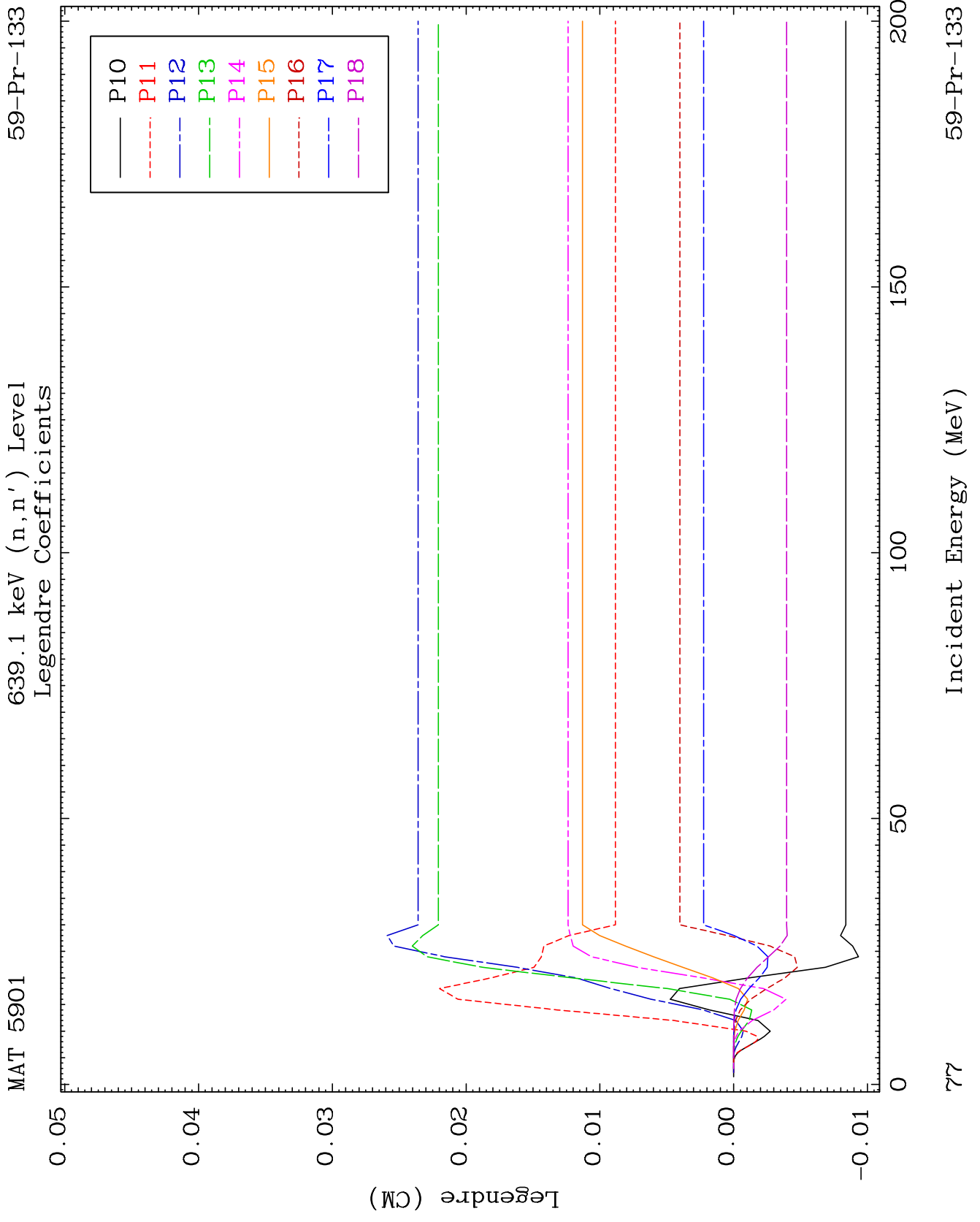
59-Pr-133



59-Pr-133

Incident Energy (MeV)

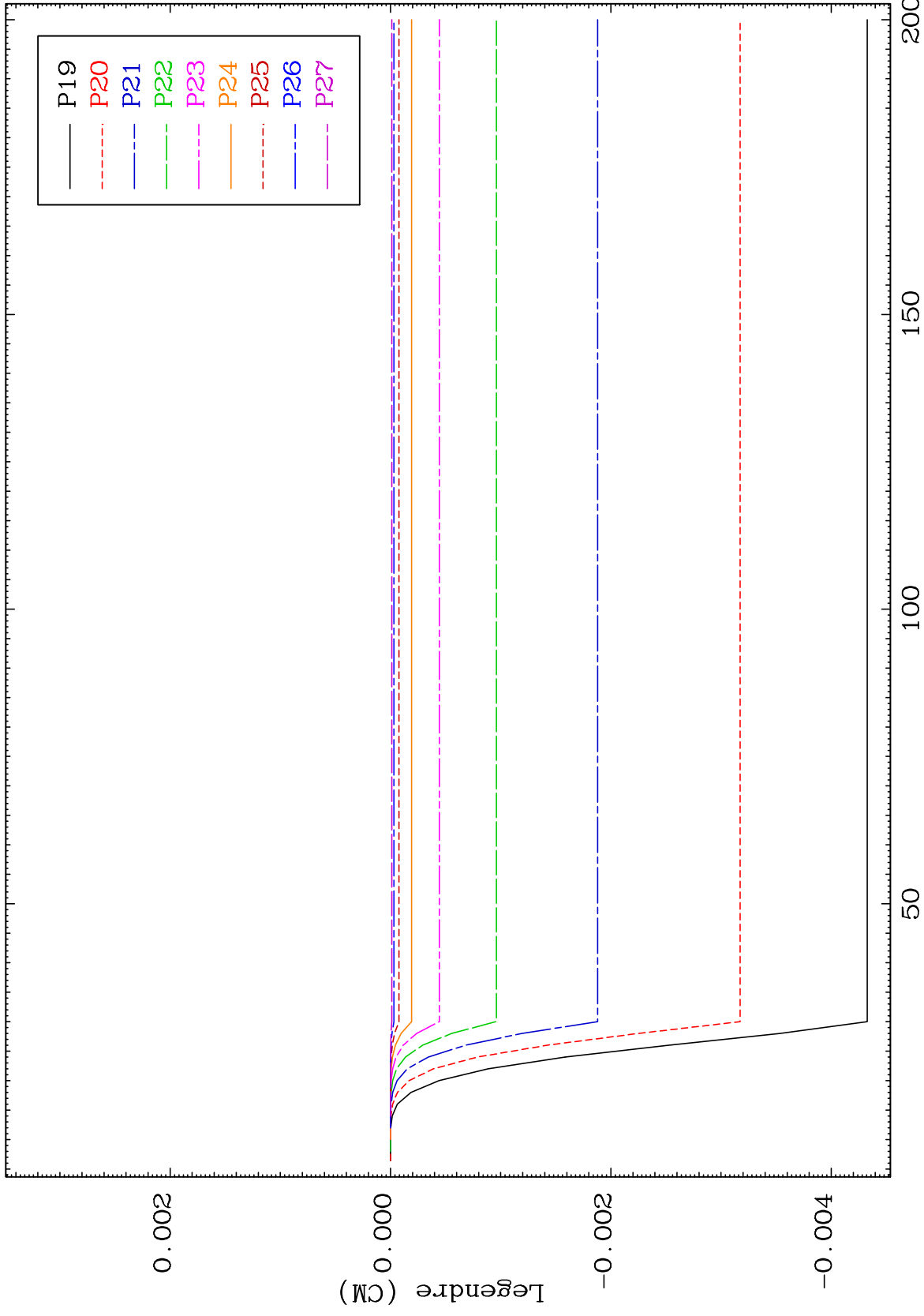
76



MAT 5901

639.1 keV (n,n') Level
Legendre Coefficients

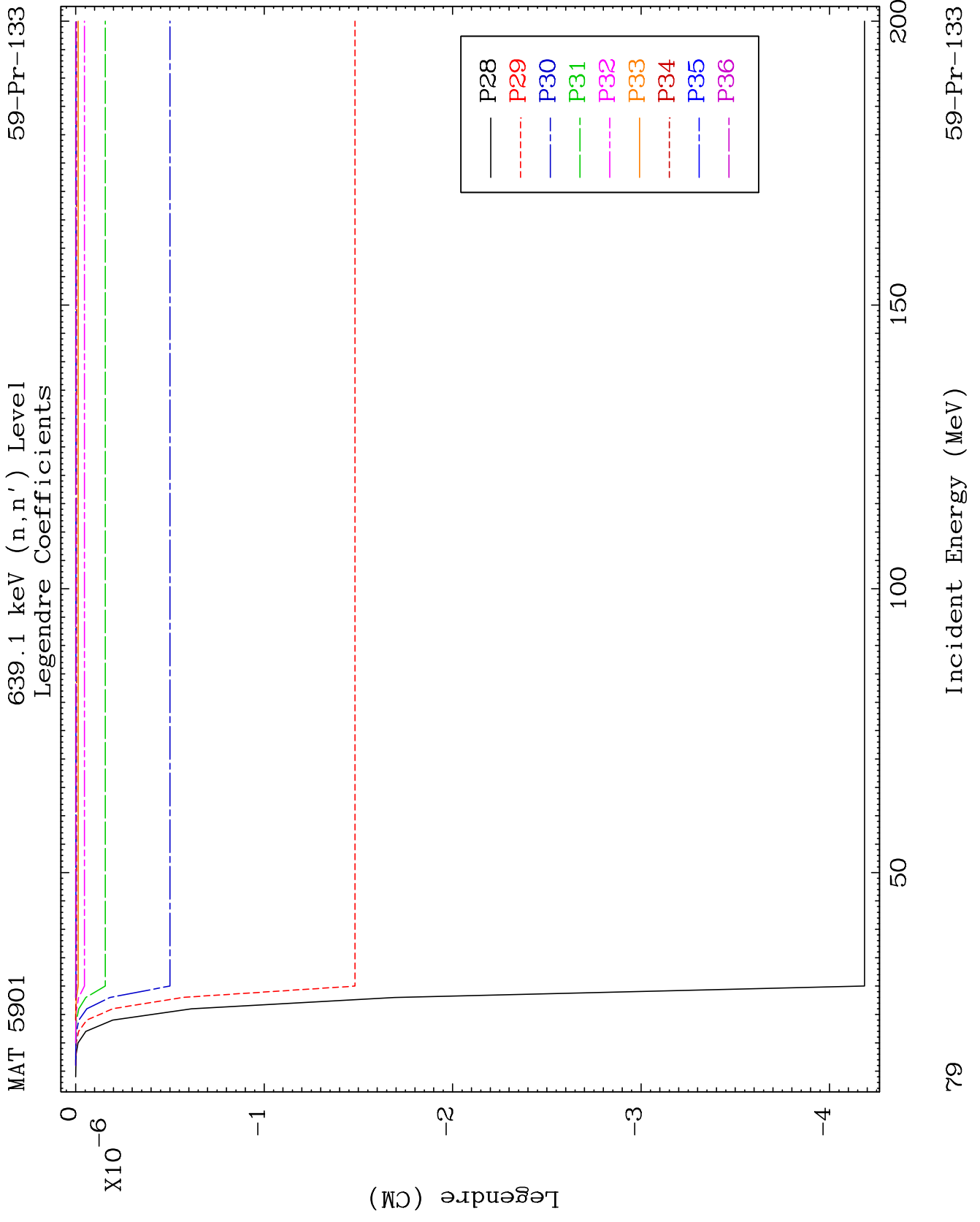
59-Pr-133

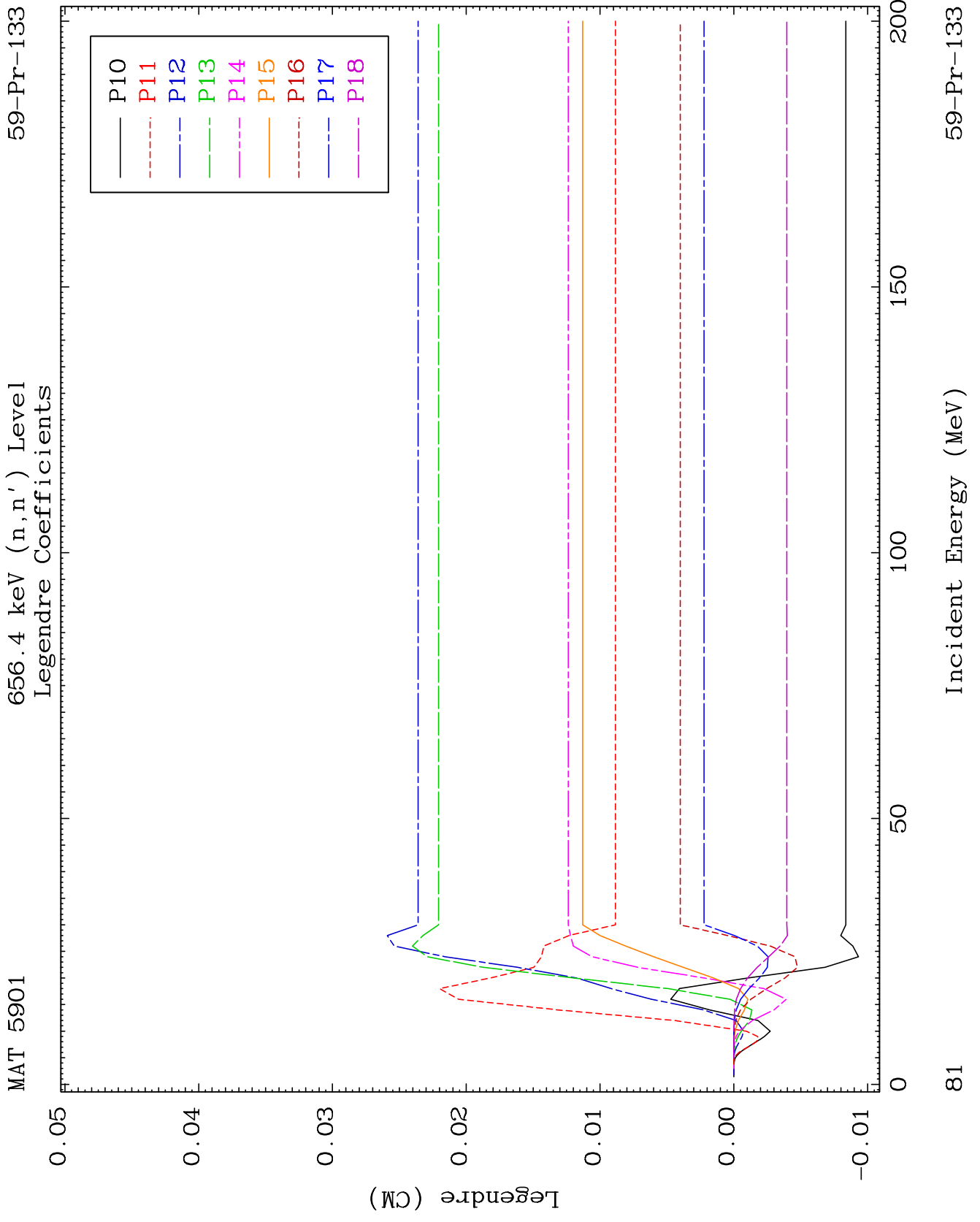


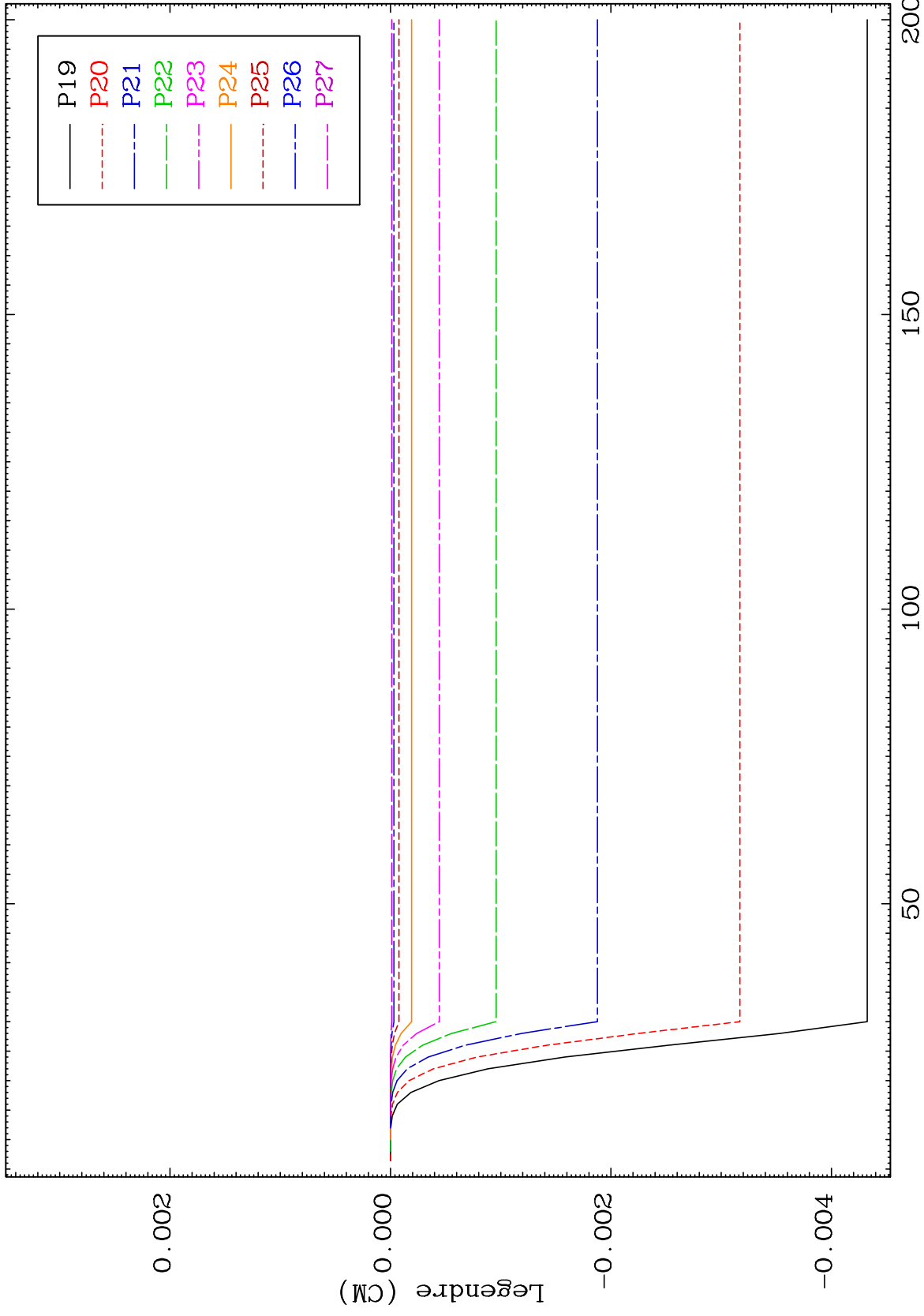
78

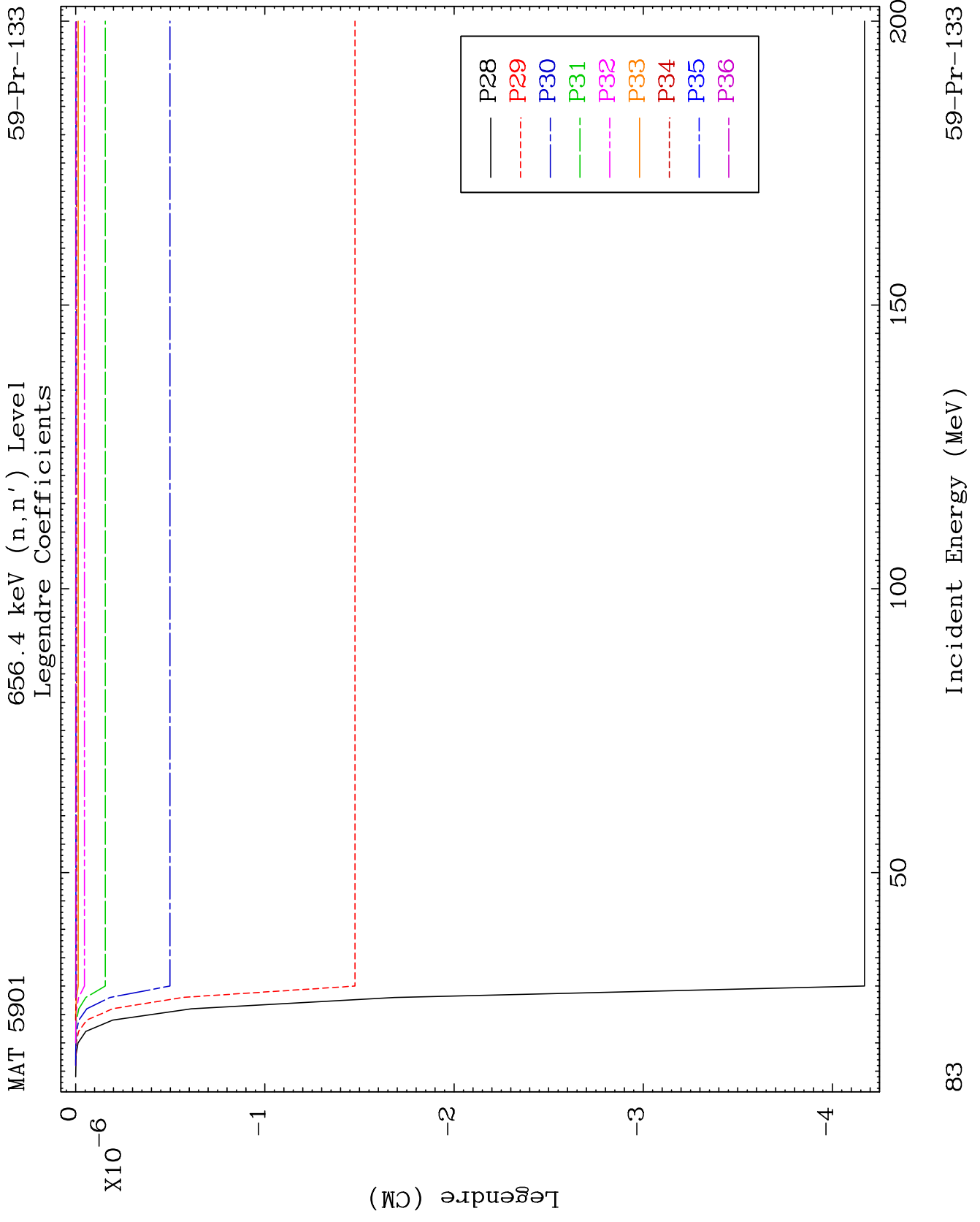
Incident Energy (MeV)

59-Pr-133





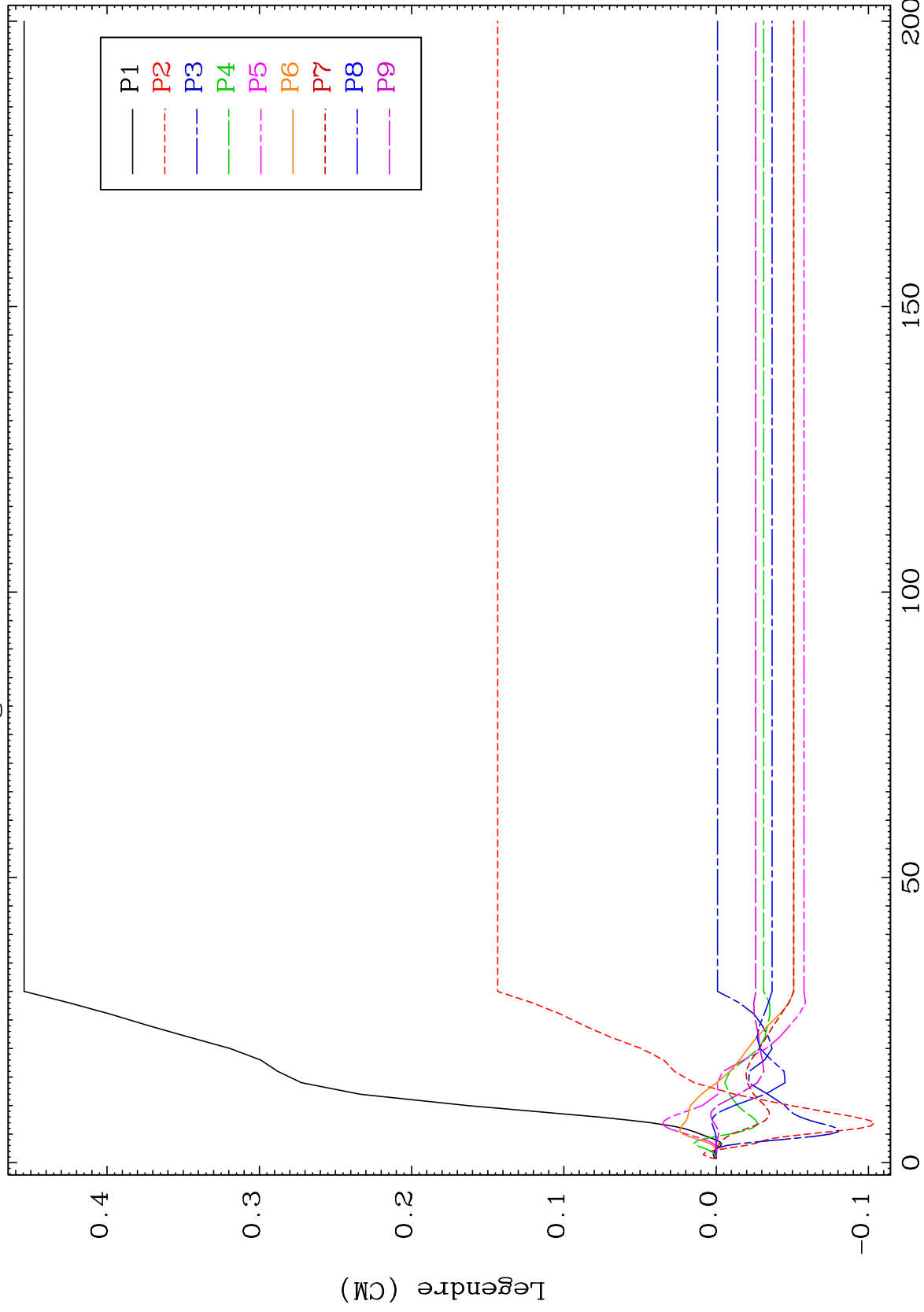




MAT 5901

679.2 keV (n,n') Level
Legendre Coefficients

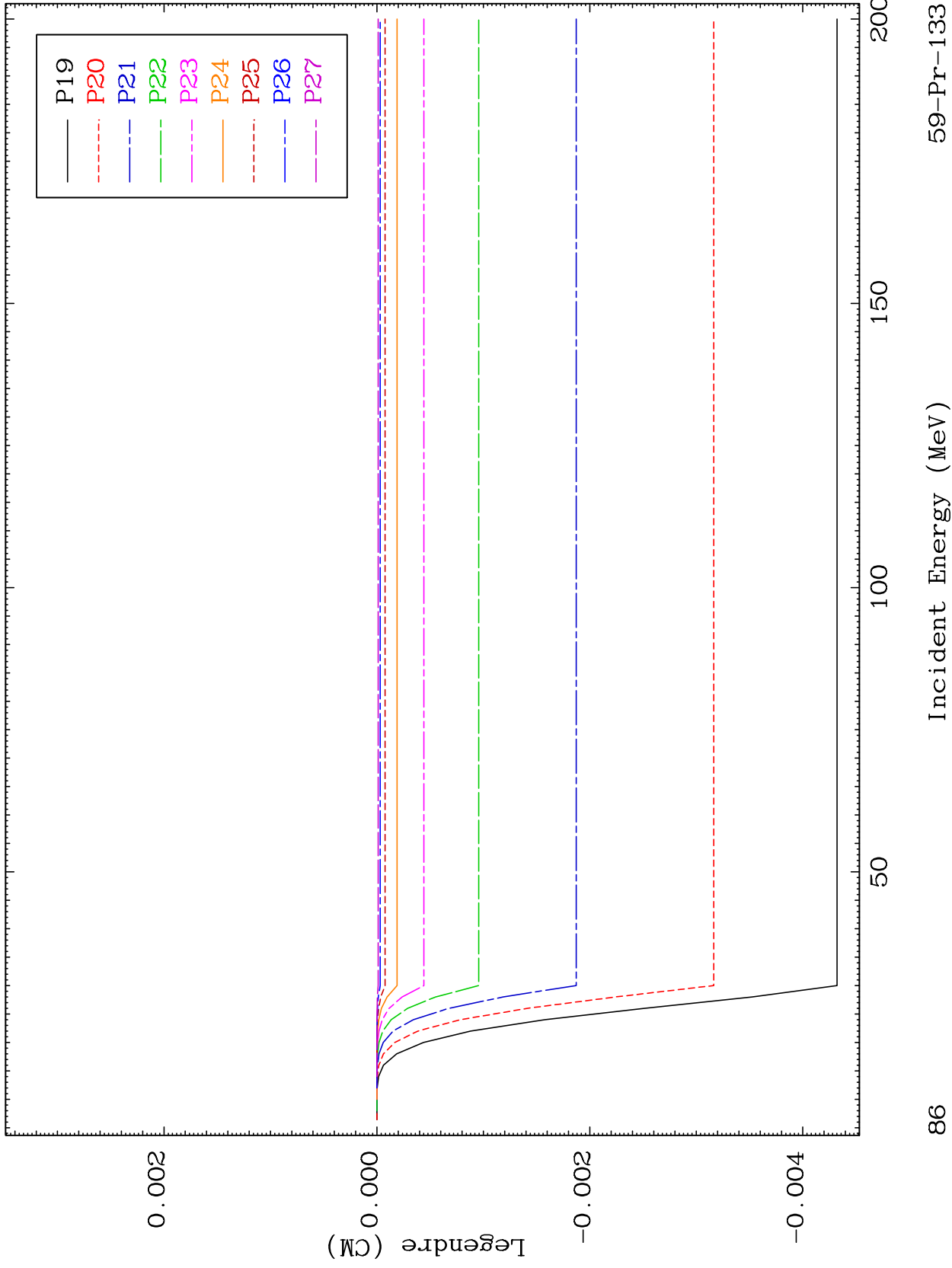
59-Pr-133

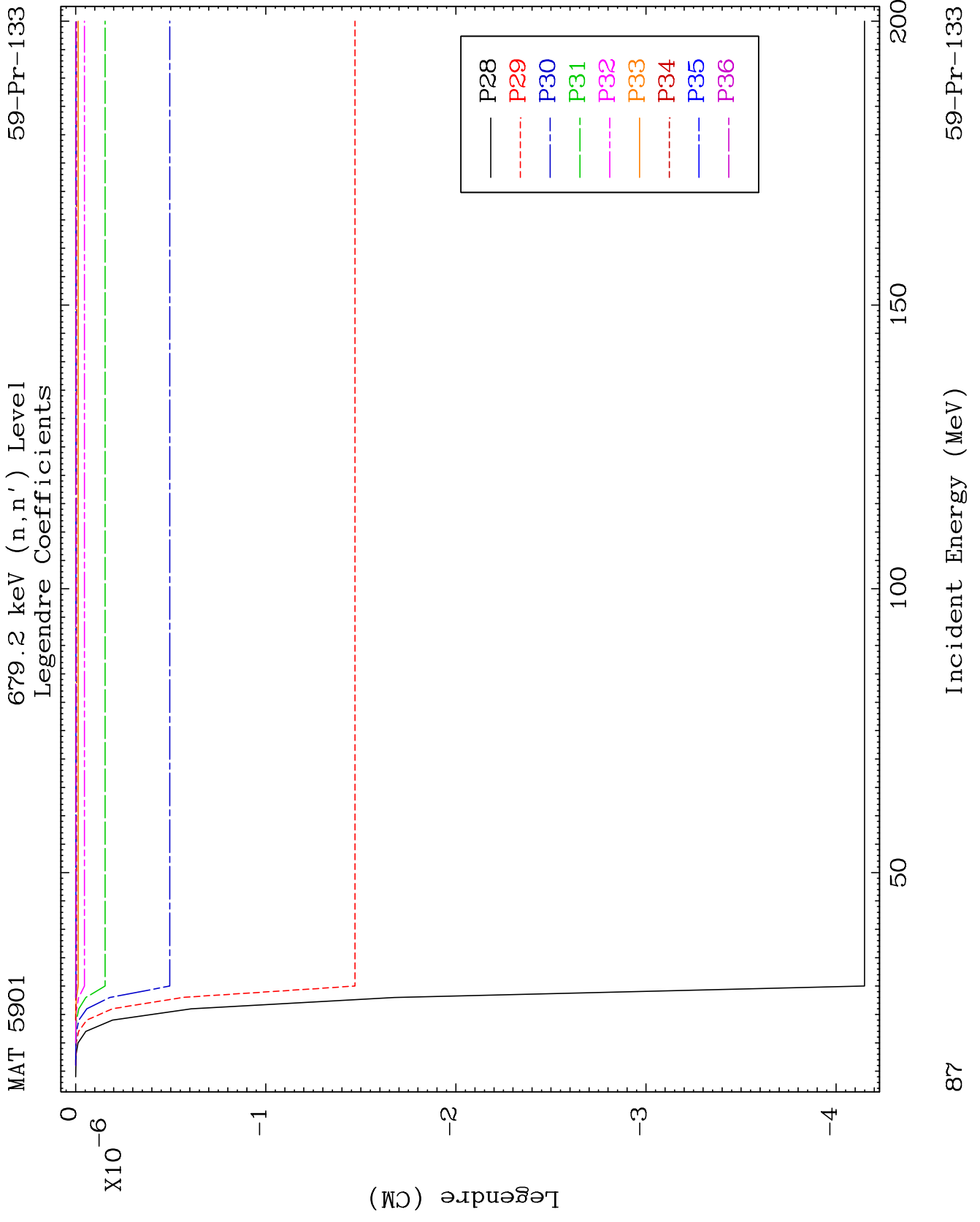


84

Incident Energy (MeV)

59-Pr-133

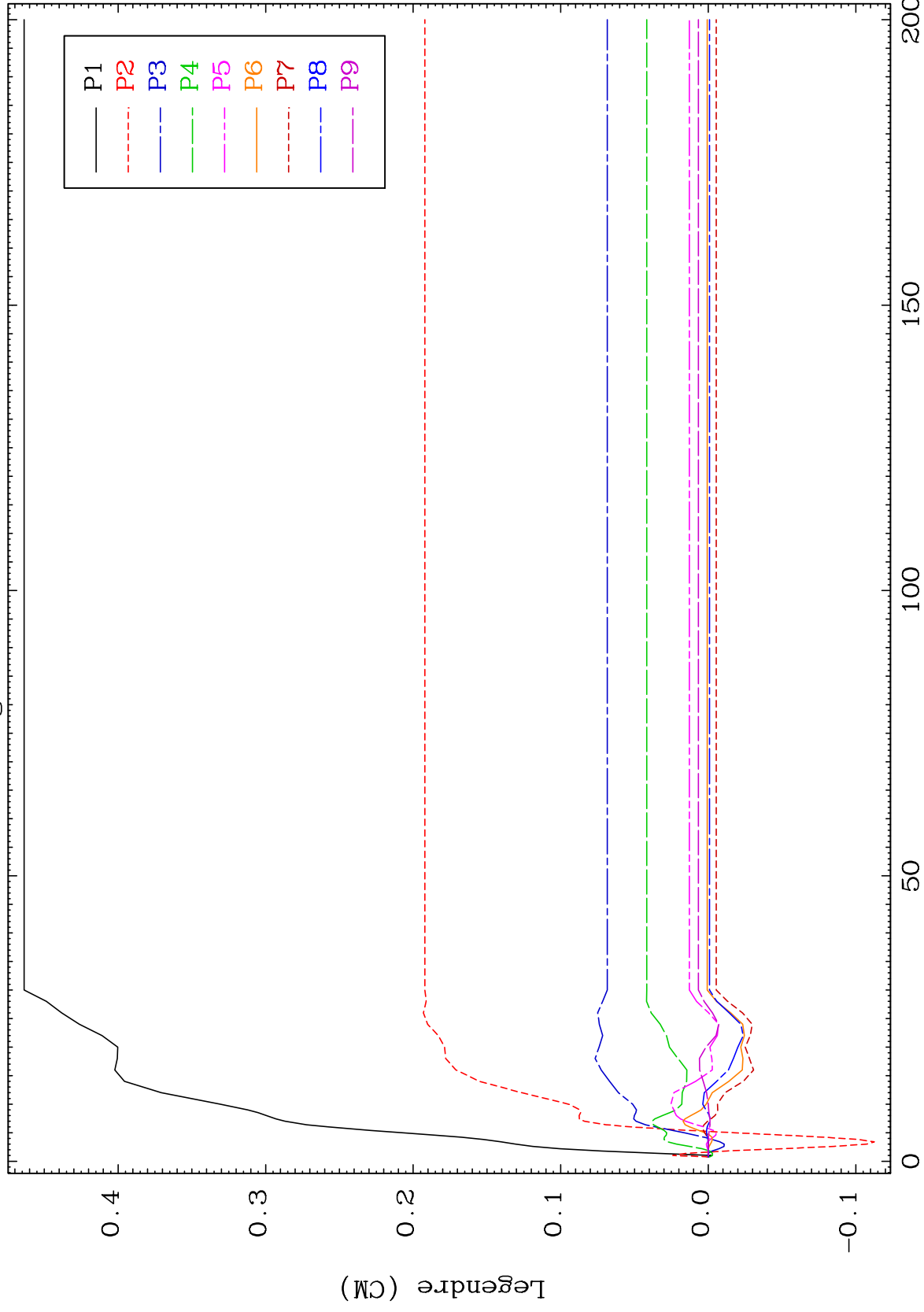




MAT 5901

702.4 keV (n,n') Level
Legendre Coefficients

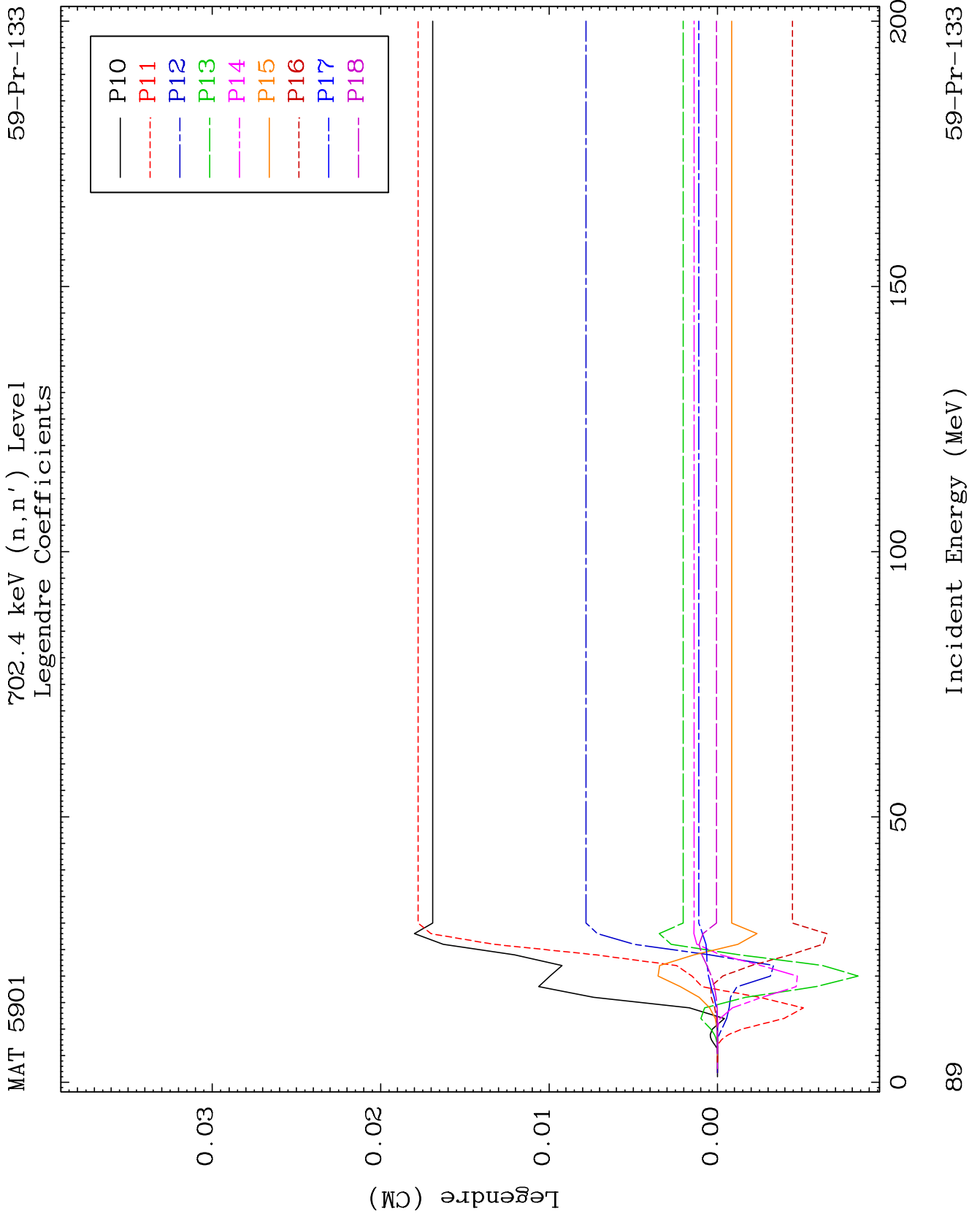
59-Pr-133



88

59-Pr-133

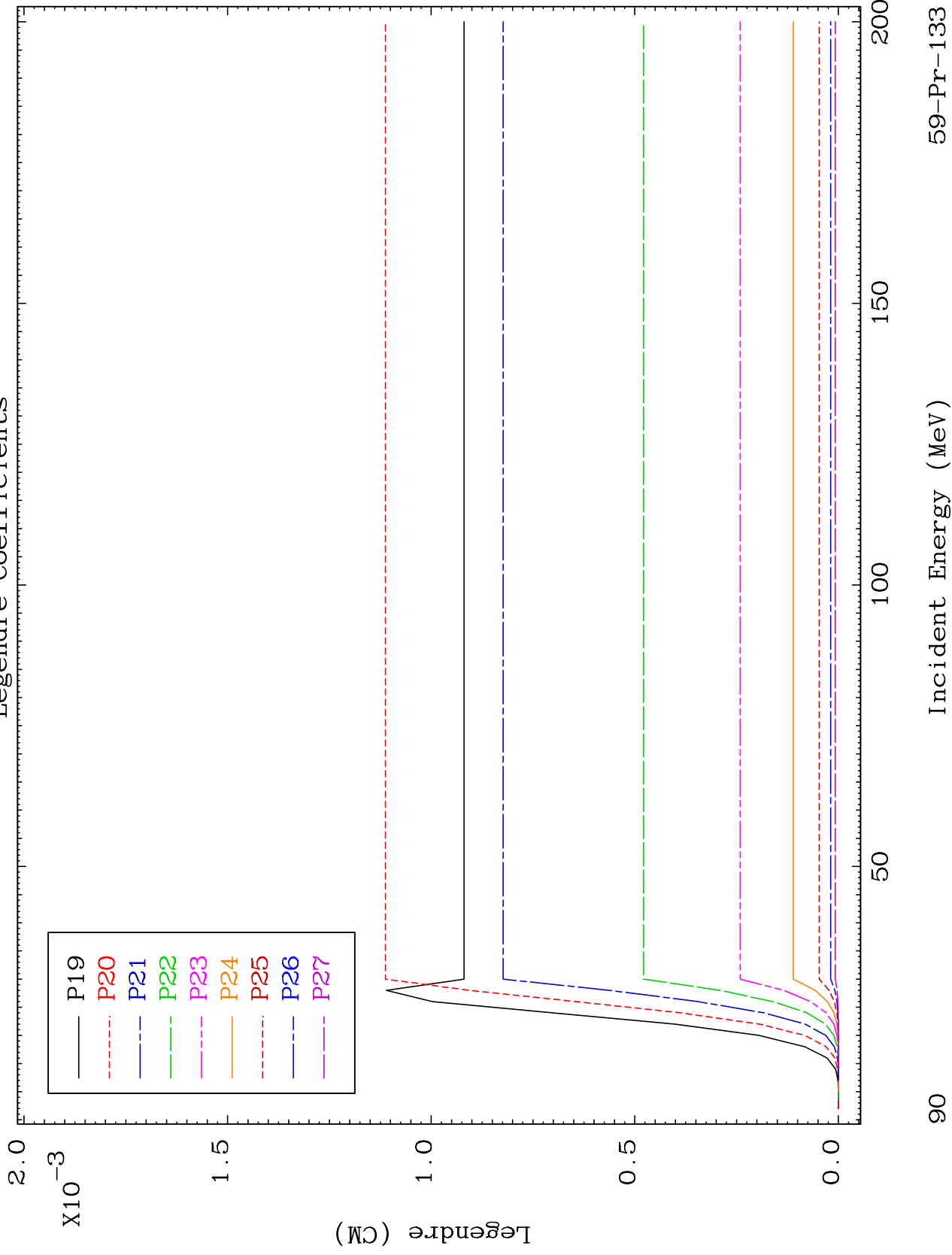
59-Pr-133



MAT 5901

702.4 keV (n,n') Level
Legendre Coefficients

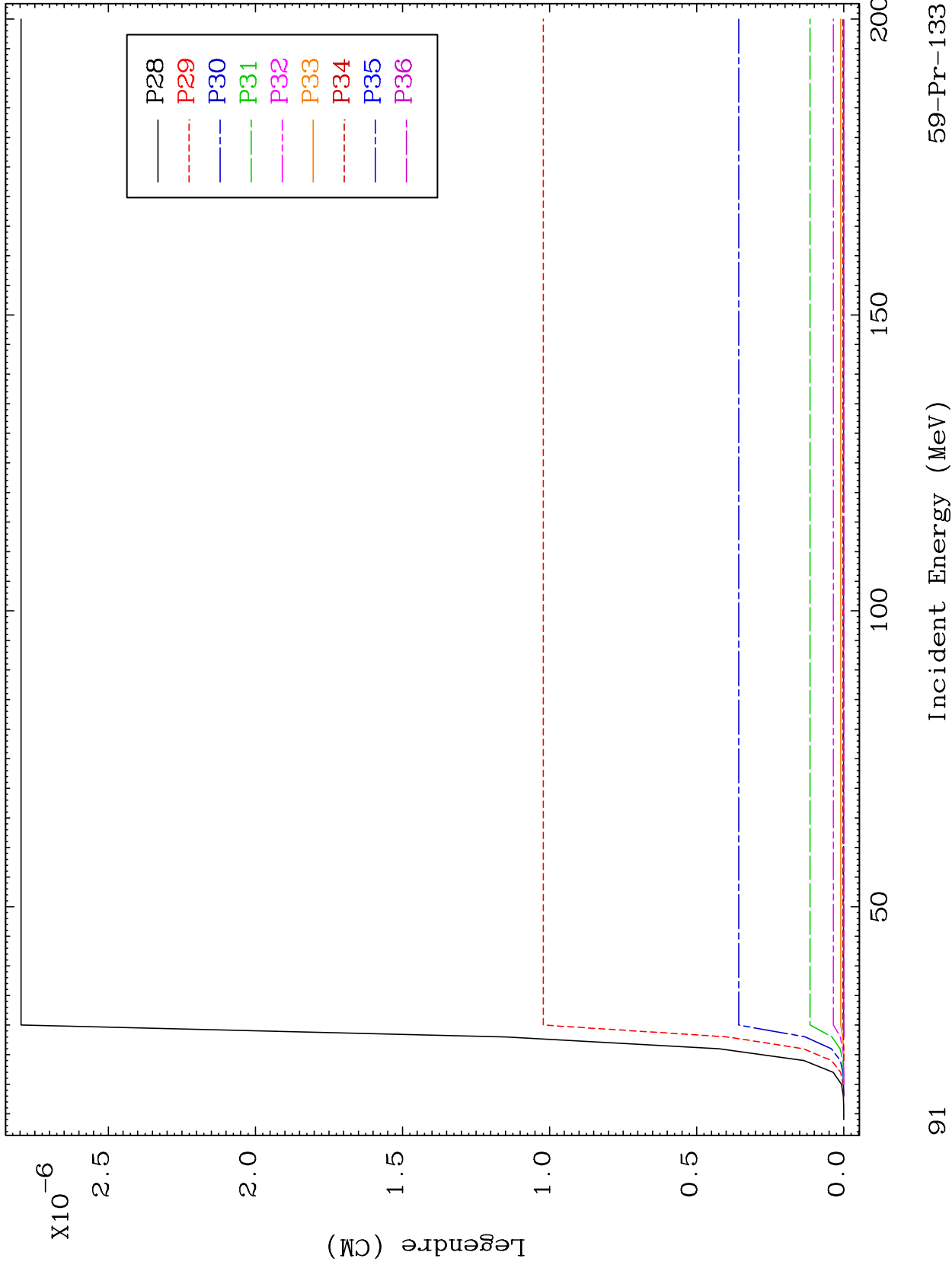
59-Pr-133



90

Incident Energy (MeV)

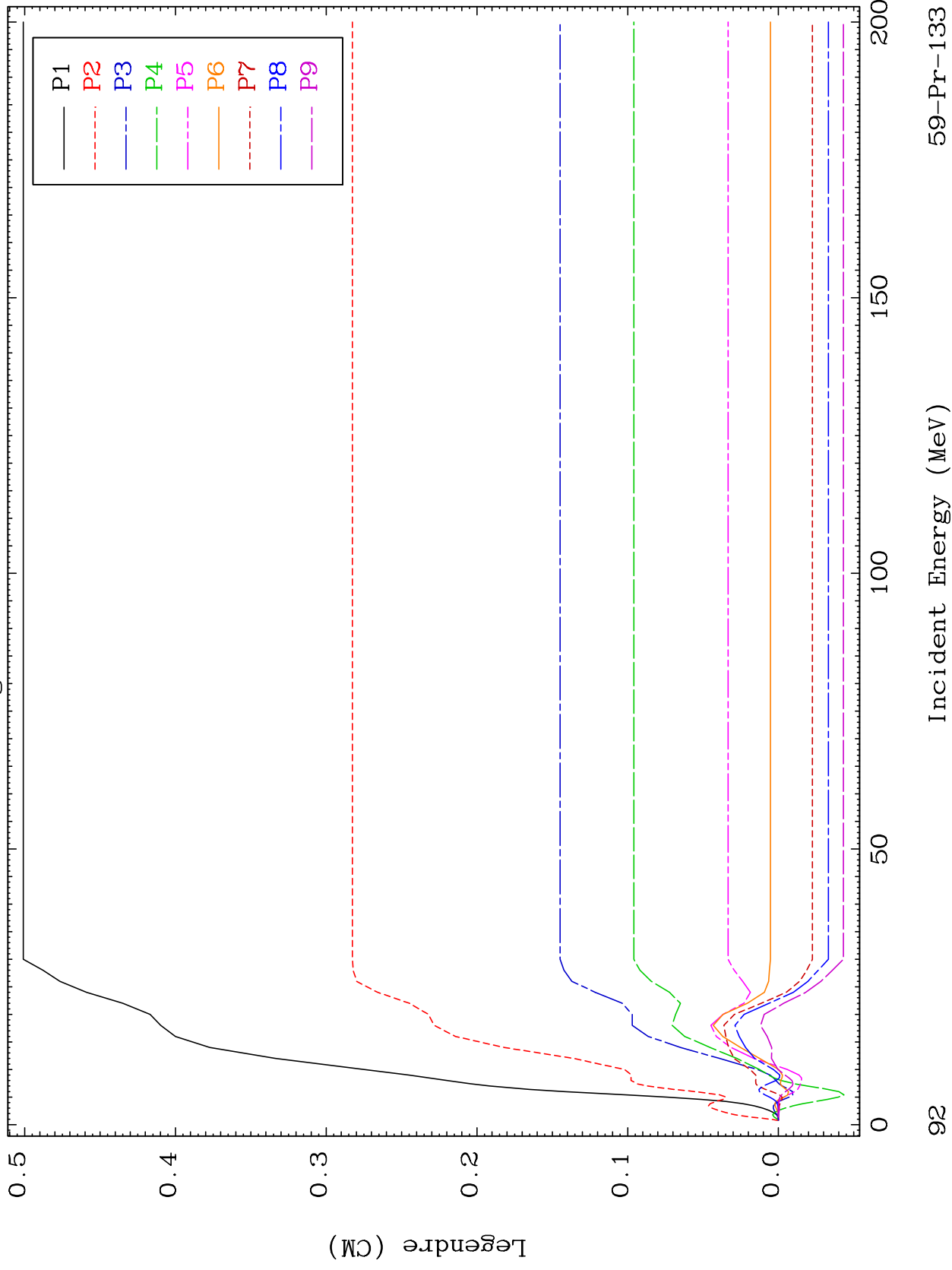
59-Pr-133



MAT 5901

744.0 keV (n,n') Level
Legendre Coefficients

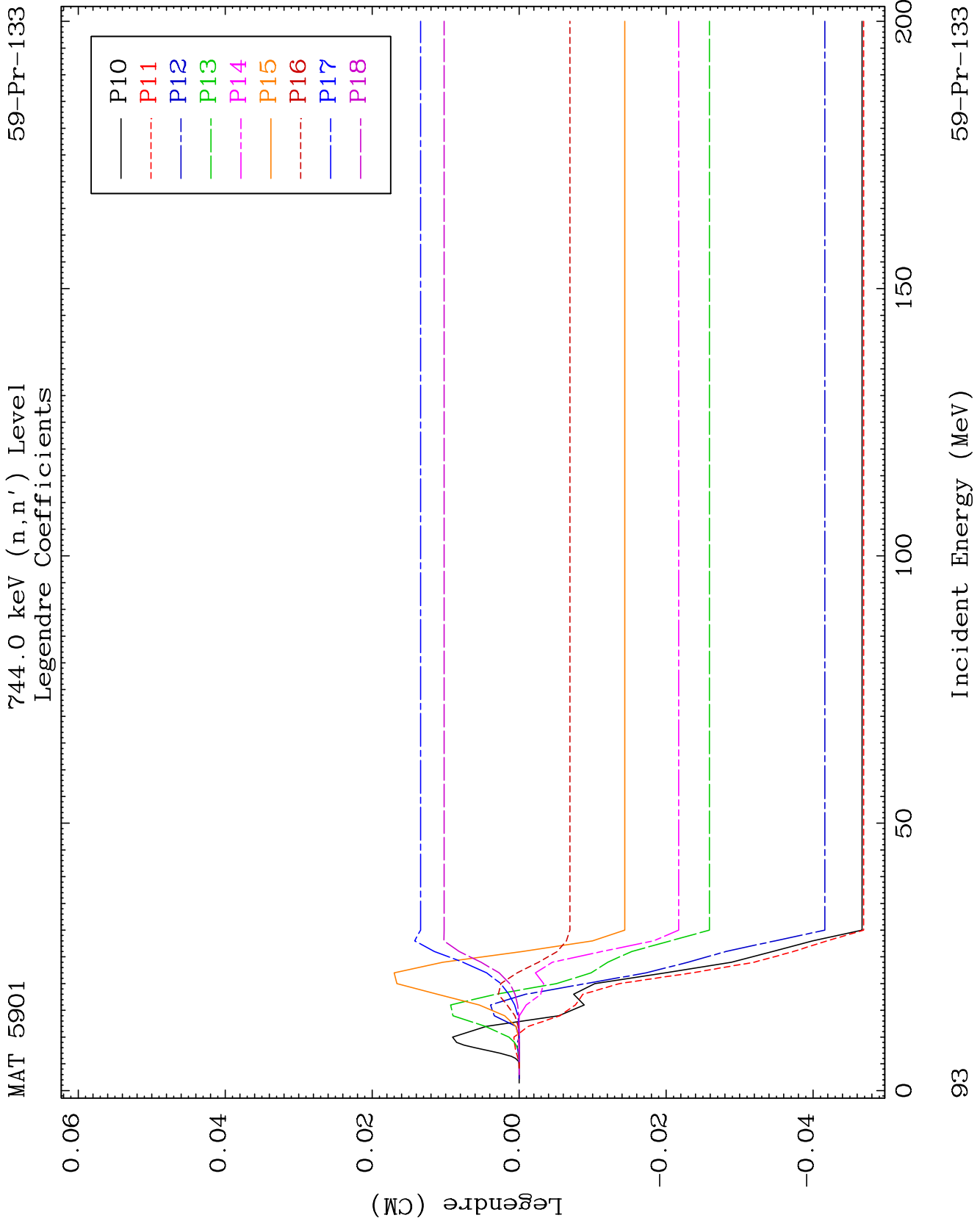
59-Pr-133

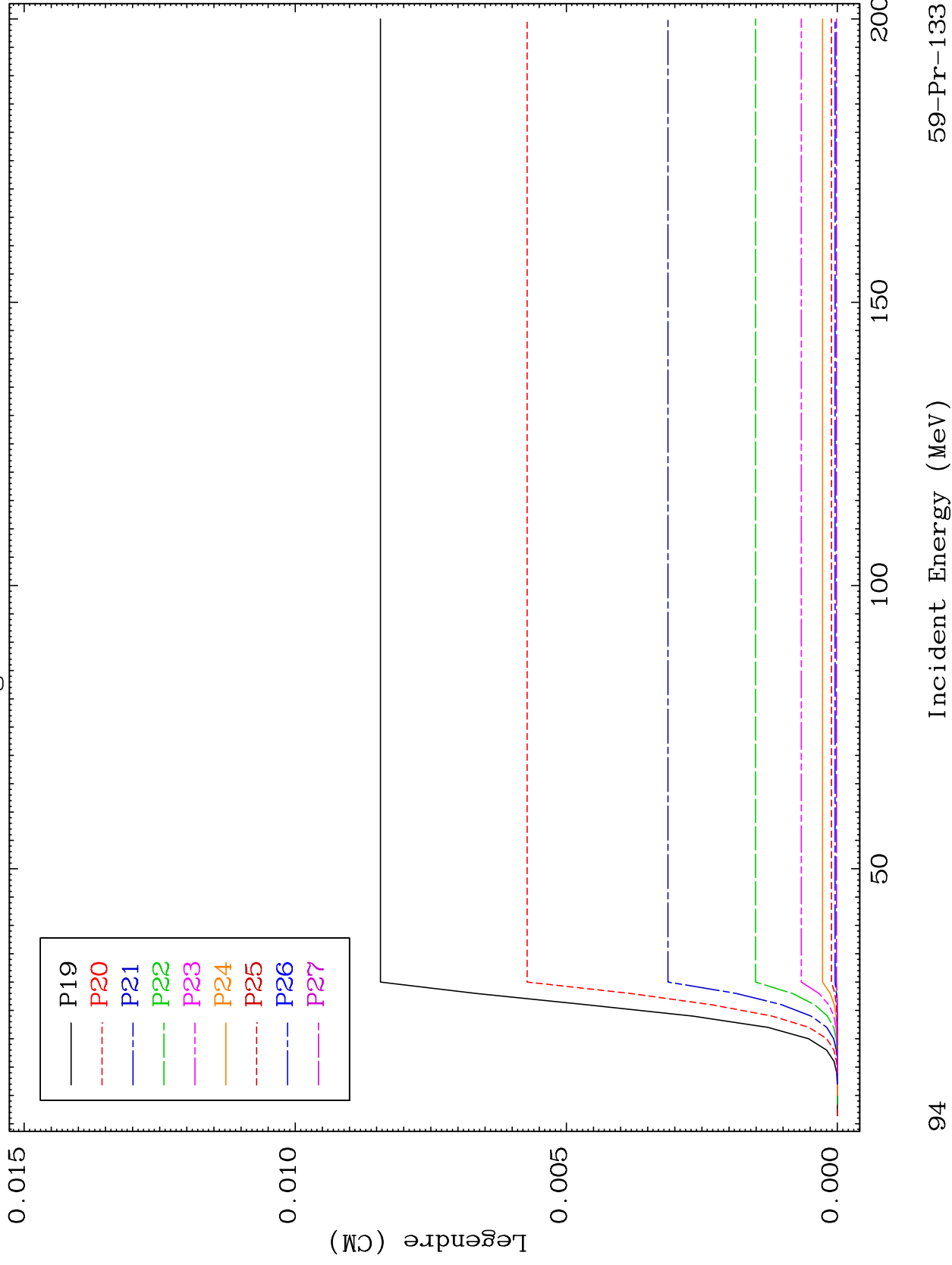


59-Pr-133

Incident Energy (MeV)

92

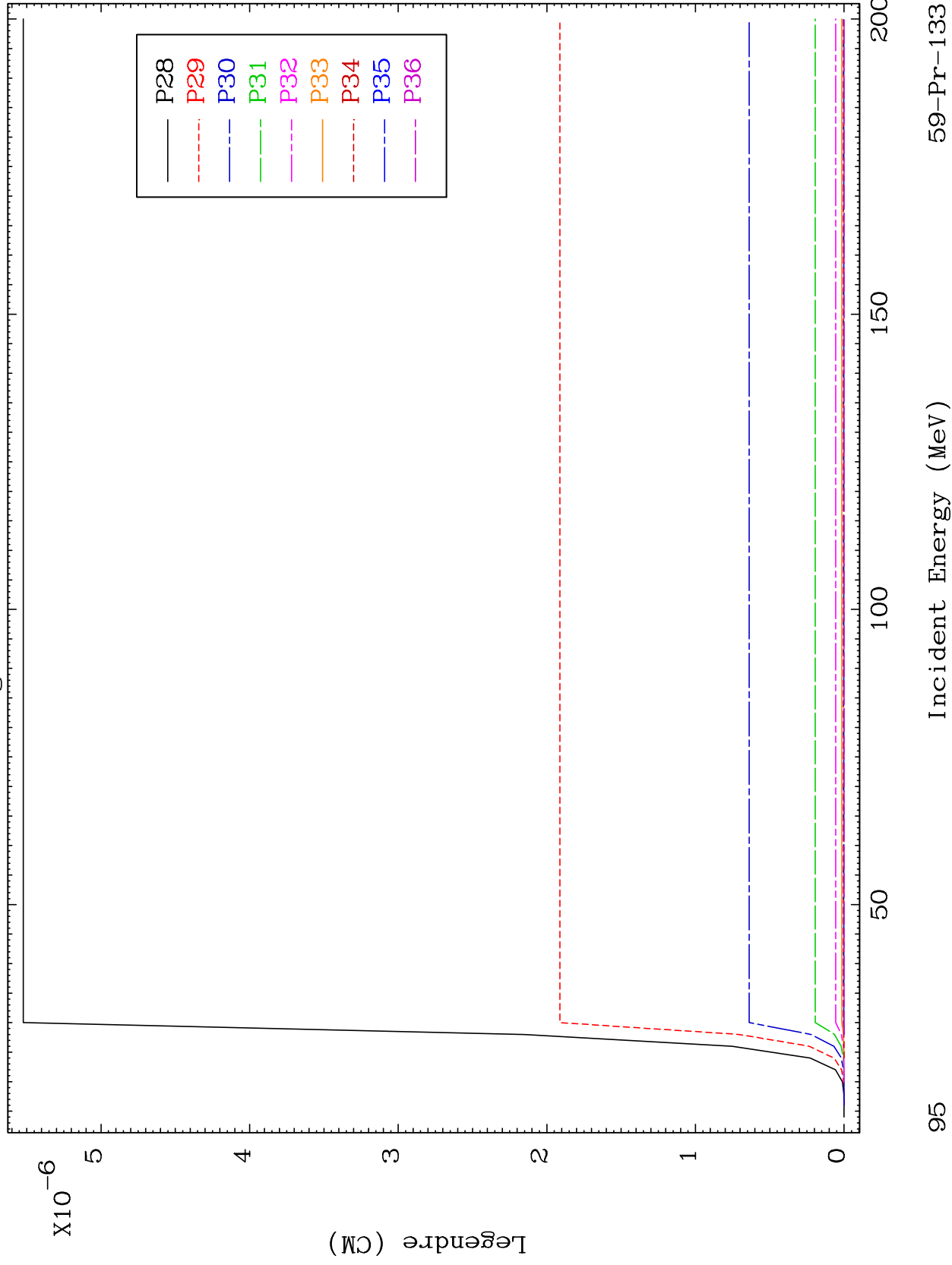




MAT 5901

744.0 keV (n,n') Level
Legendre Coefficients

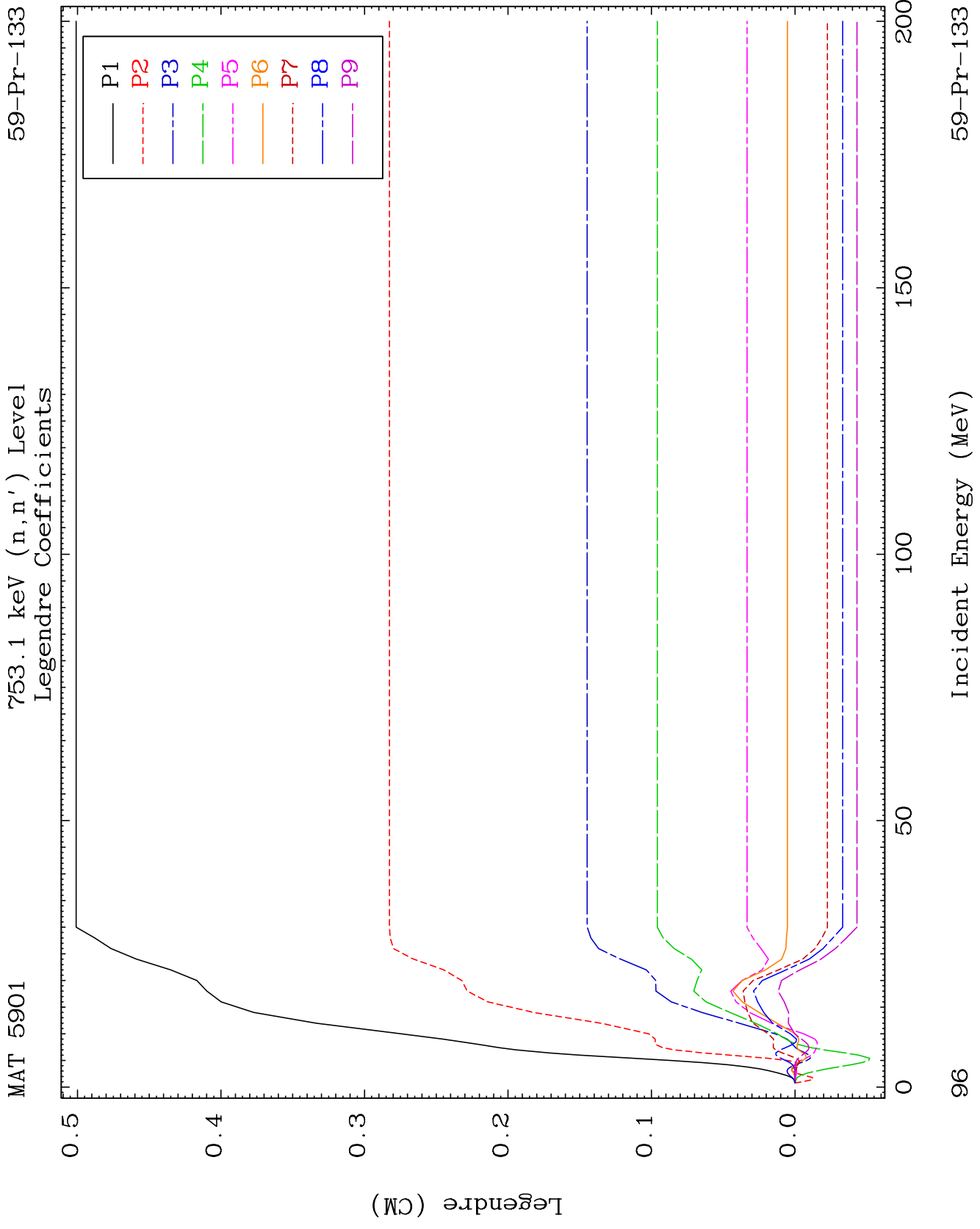
59-Pr-133



95

Incident Energy (MeV)

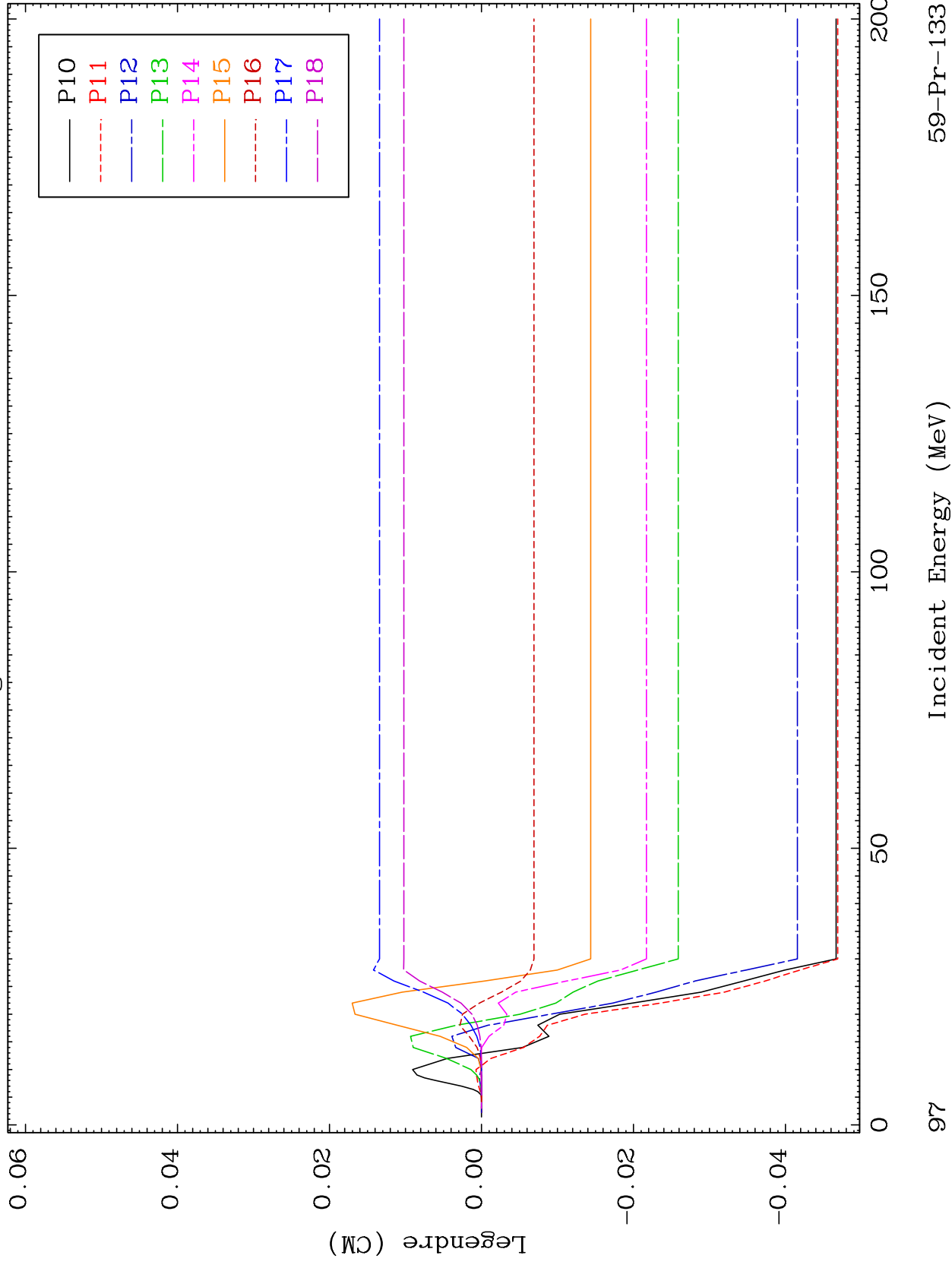
59-Pr-133



MAT 5901

753.1 keV (n,n') Level
Legendre Coefficients

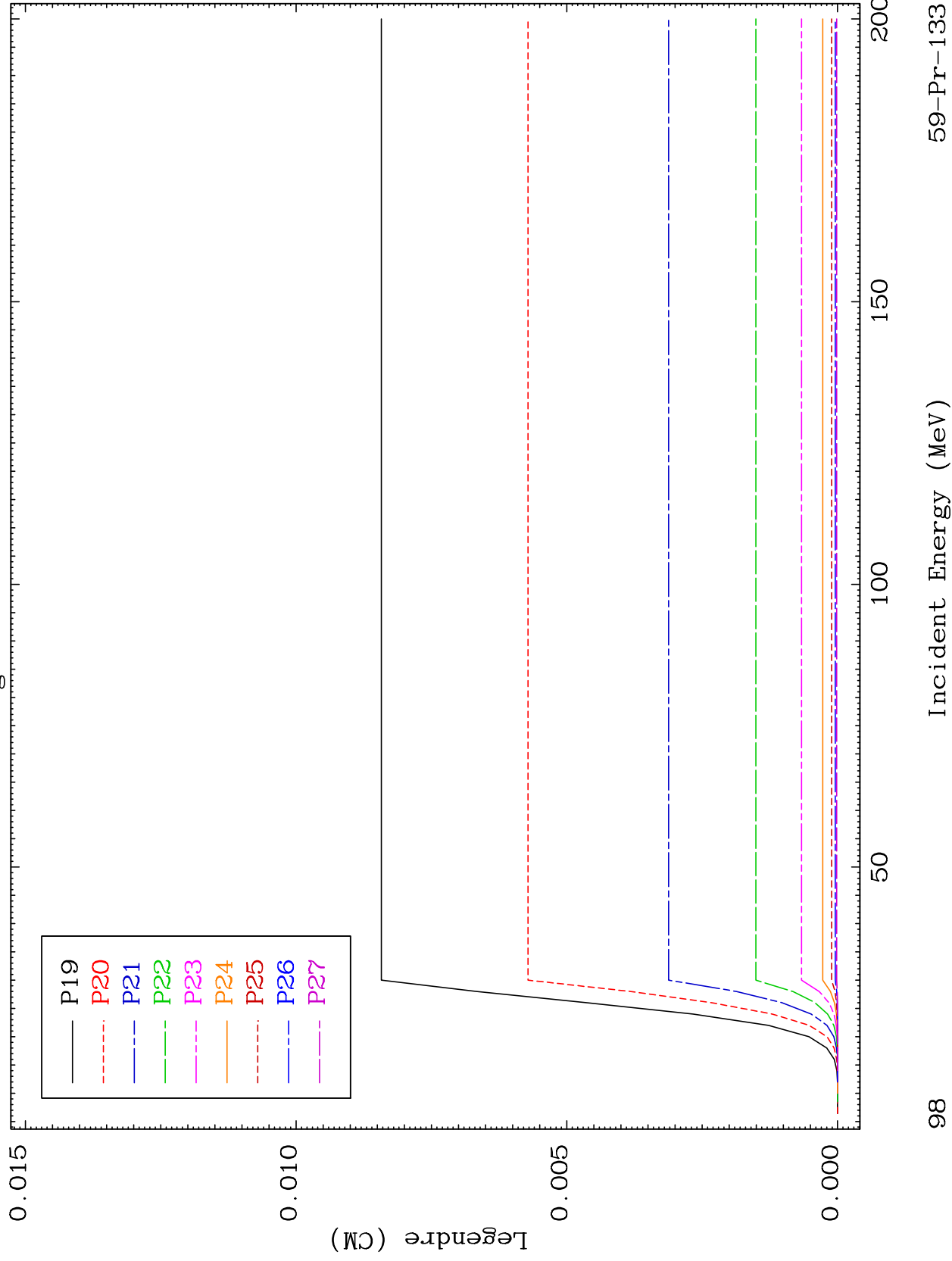
59-Pr-133



97

Incident Energy (MeV)

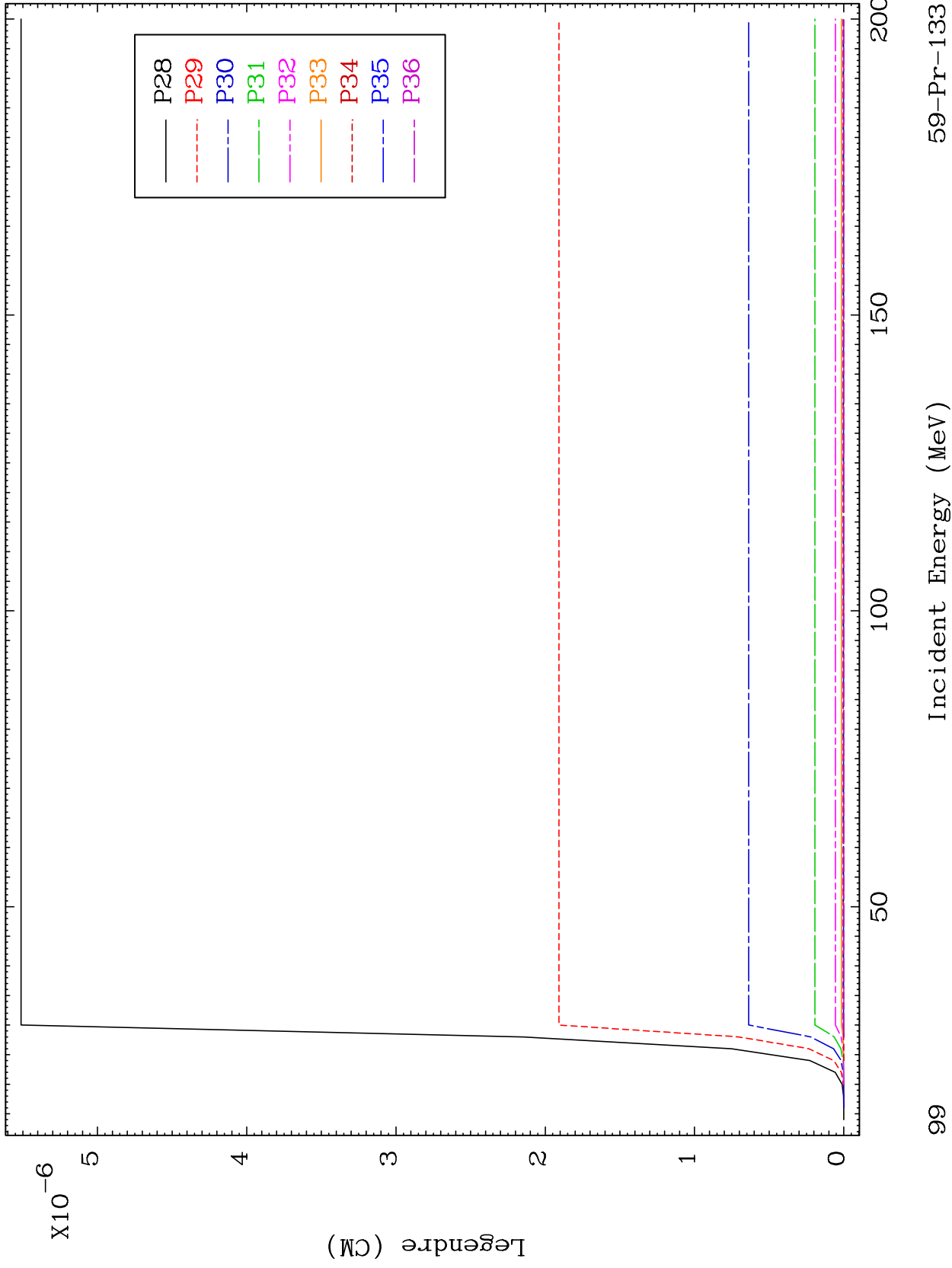
59-Pr-133



MAT 5901

753.1 keV (n,n') Level
Legendre Coefficients

59-Pr-133



99

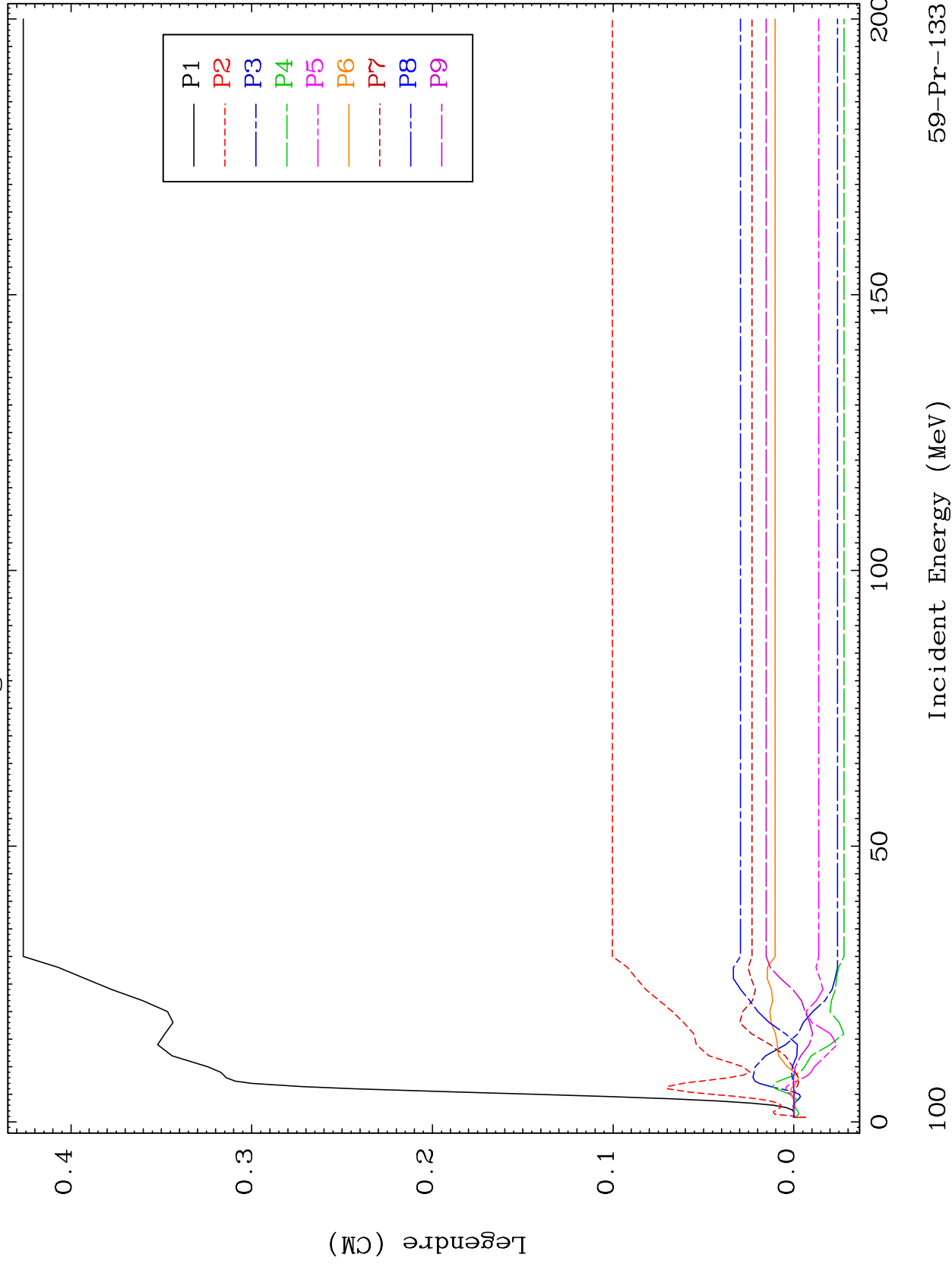
Incident Energy (MeV)

59-Pr-133

MAT 5901

790.5 keV (n,n') Level
Legendre Coefficients

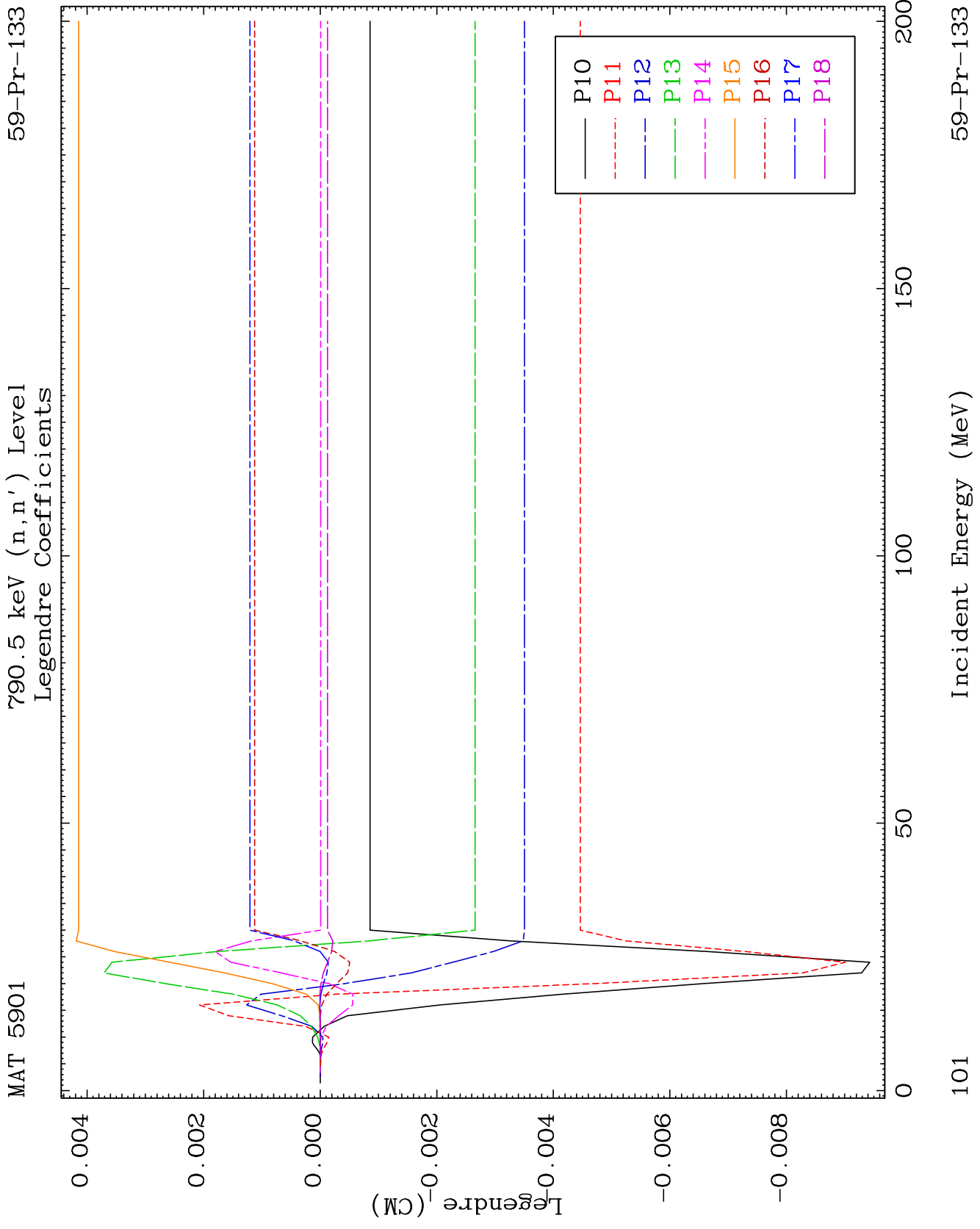
59-Pr-133

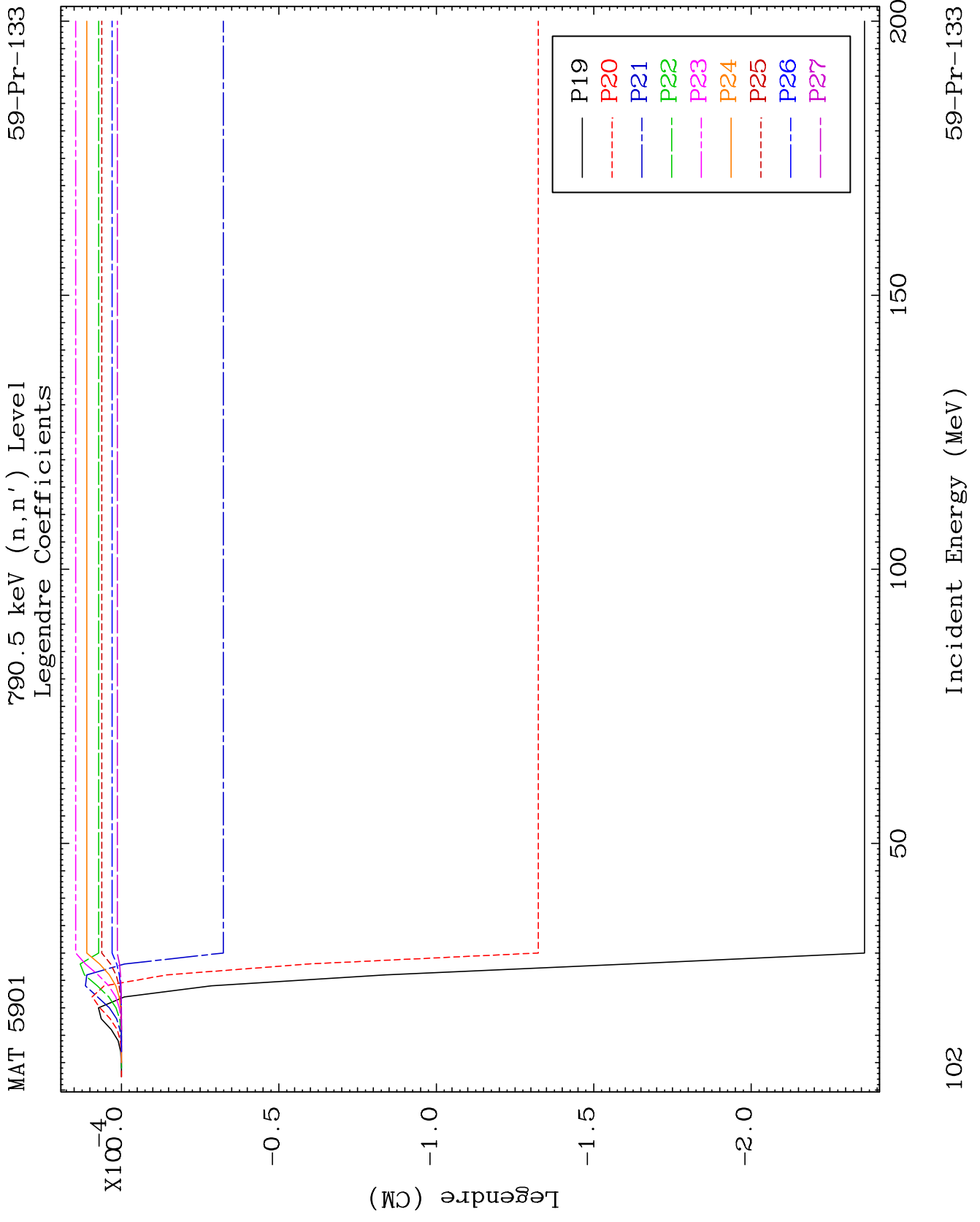


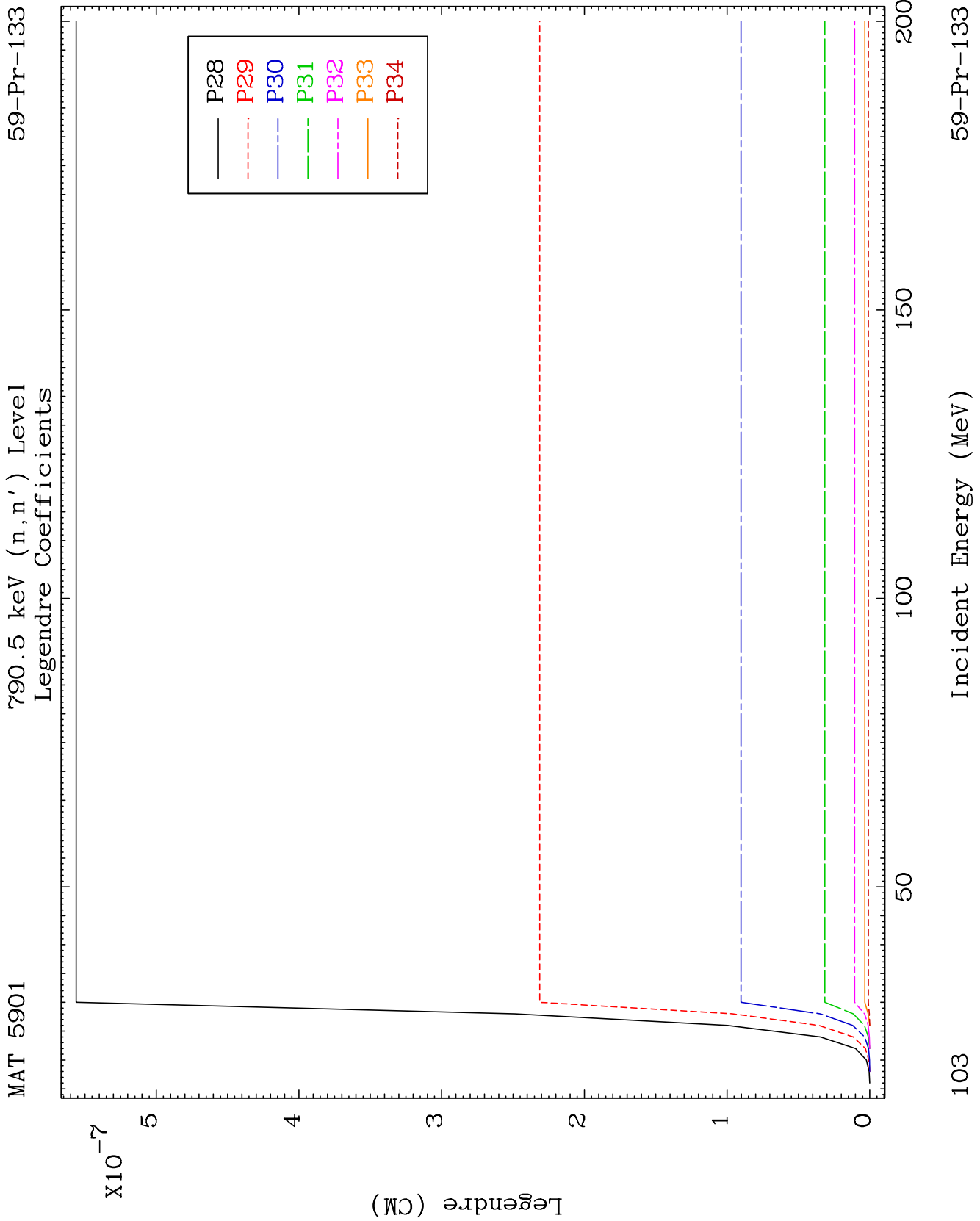
59-Pr-133

Incident Energy (MeV)

100



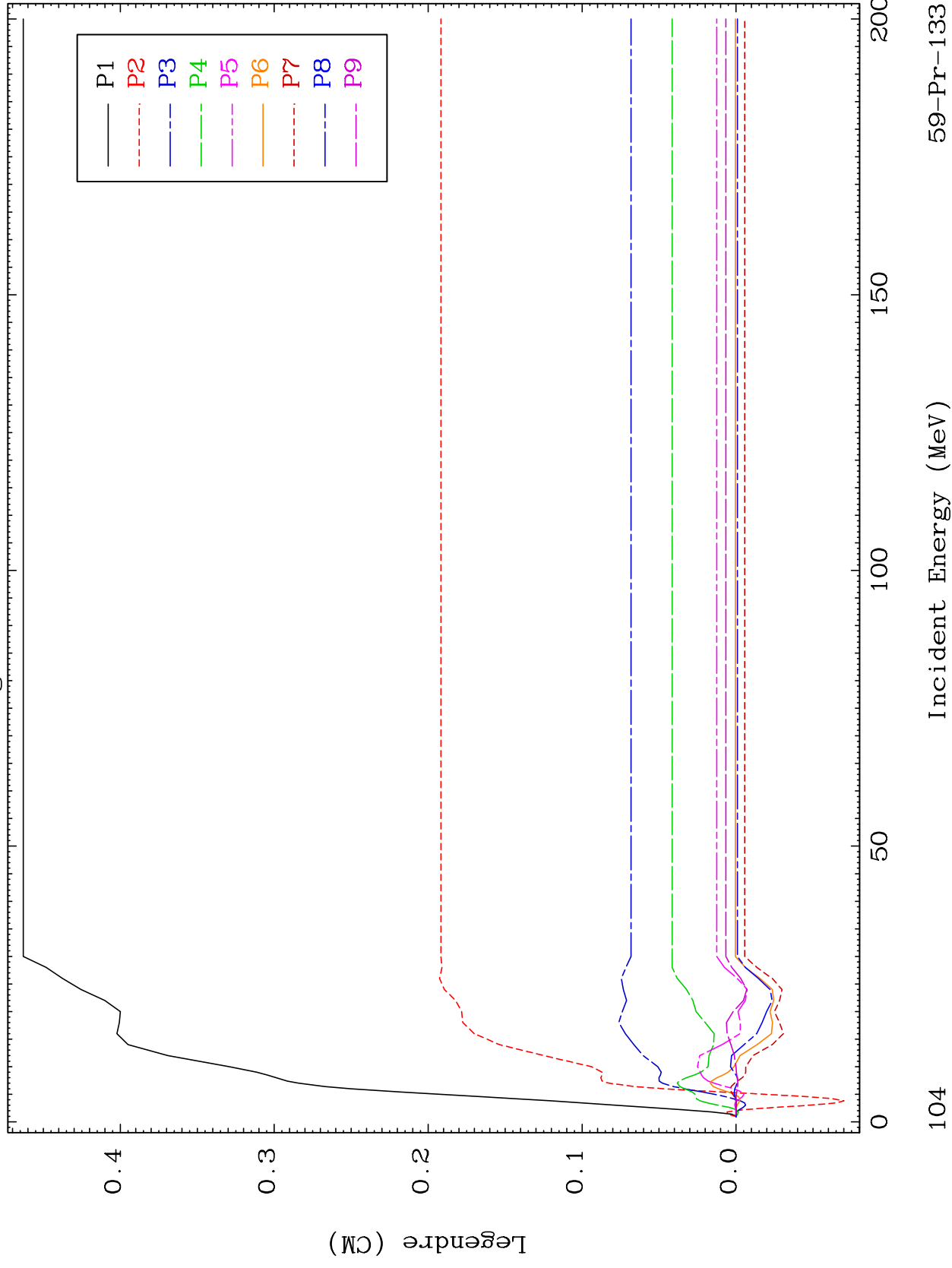




MAT 5901

859.7 keV (n,n') Level
Legendre Coefficients

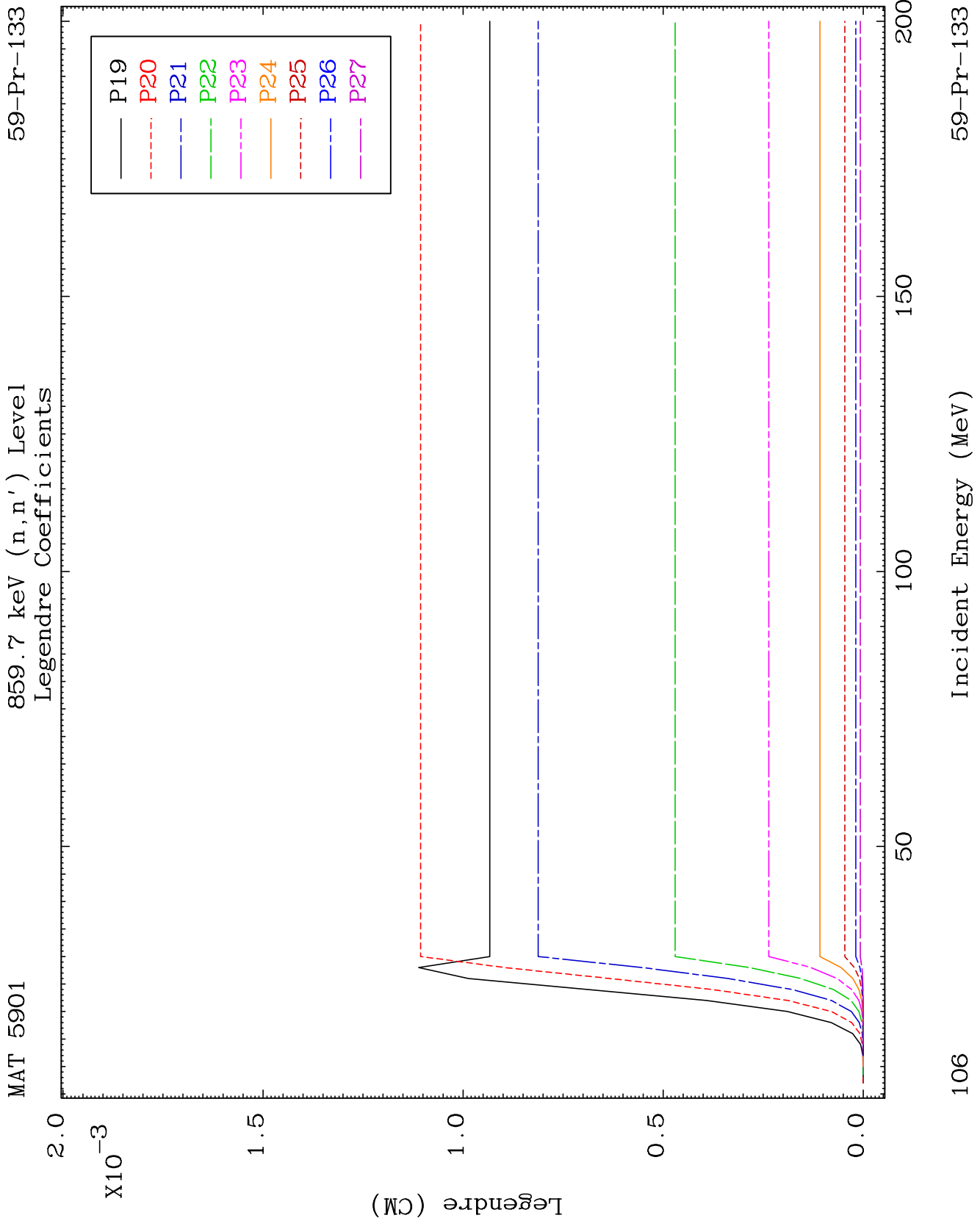
59-Pr-133



59-Pr-133

Incident Energy (MeV)

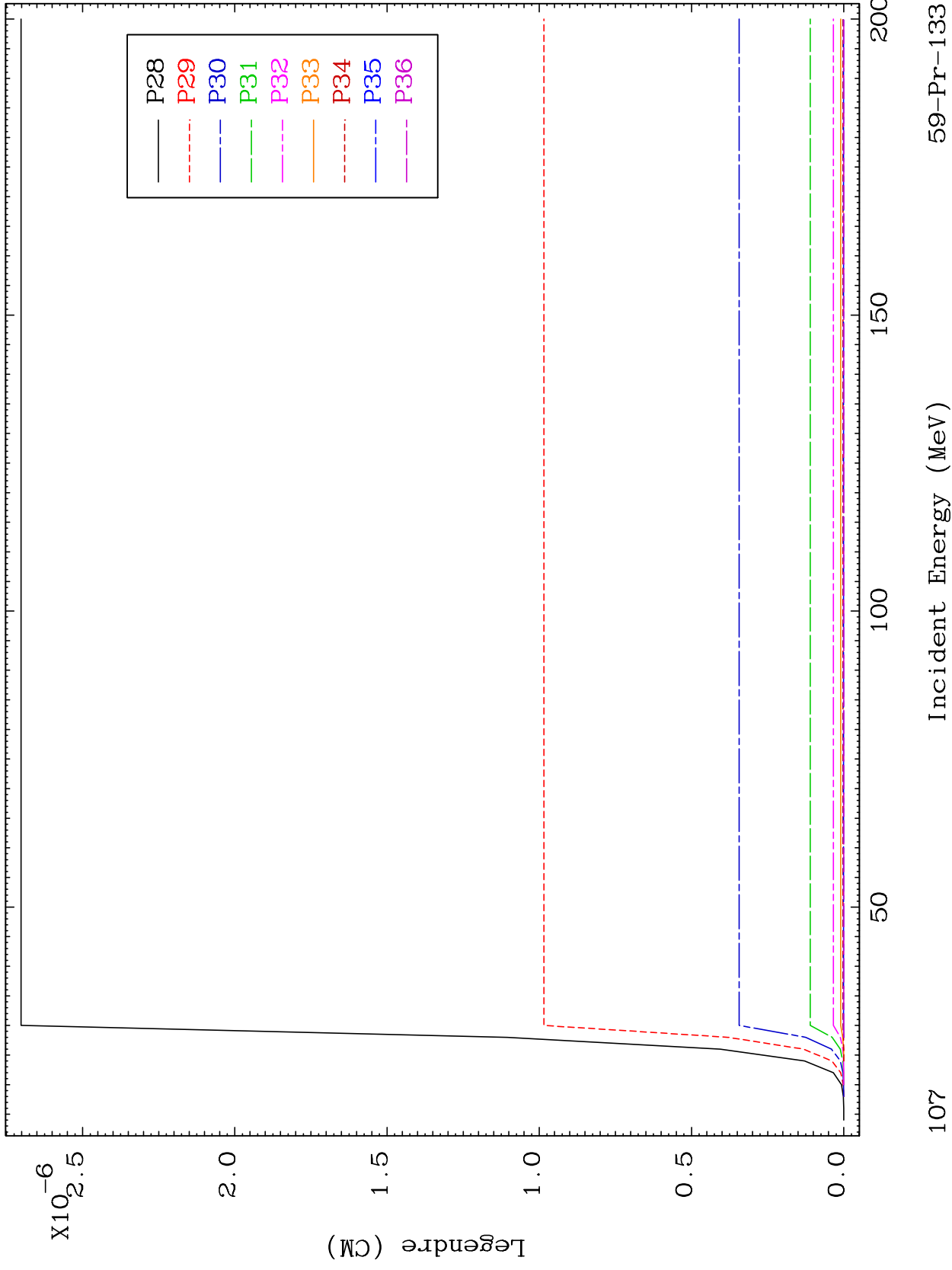
104



MAT 5901

859.7 keV (n,n') Level
Legendre Coefficients

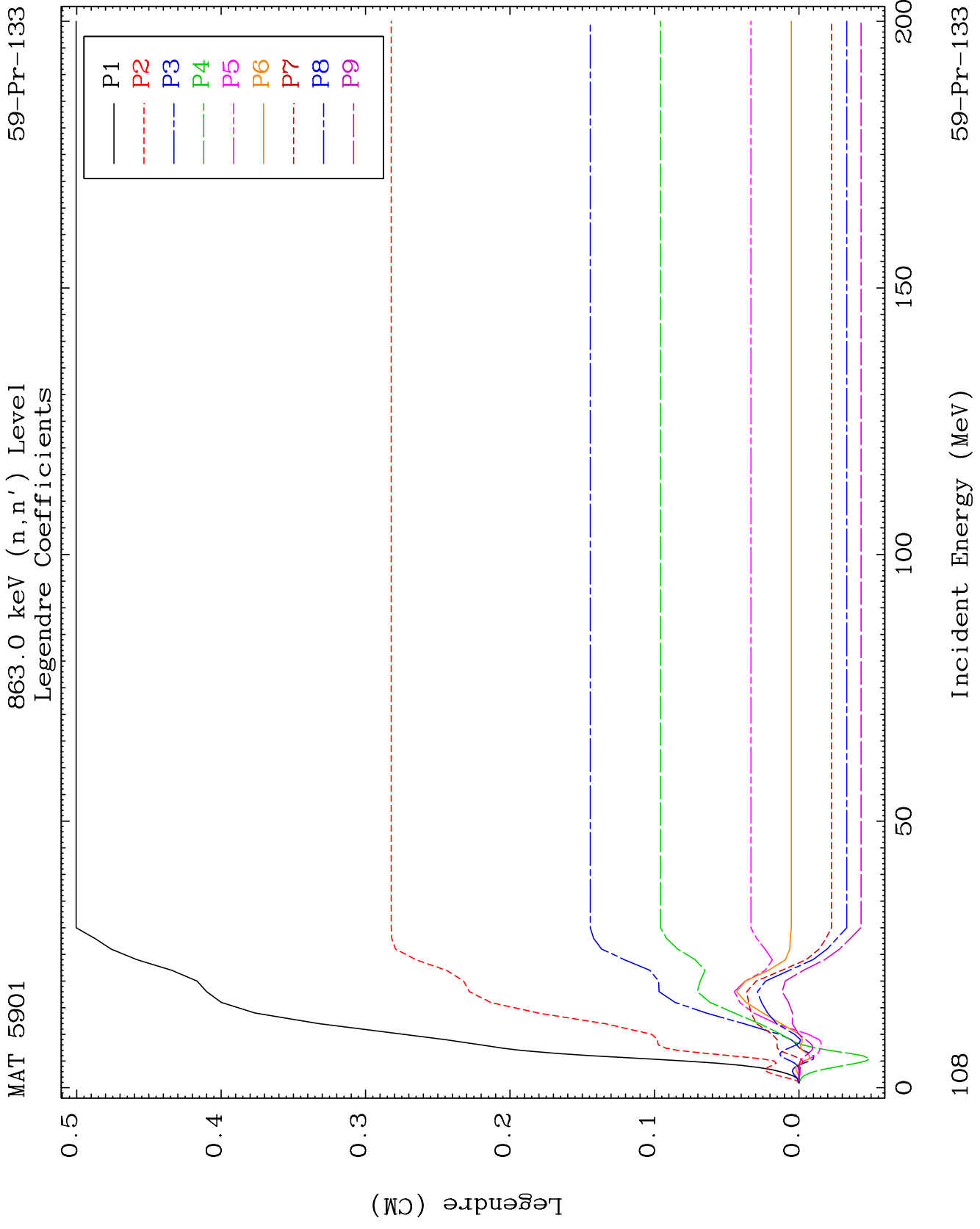
59-Pr-133

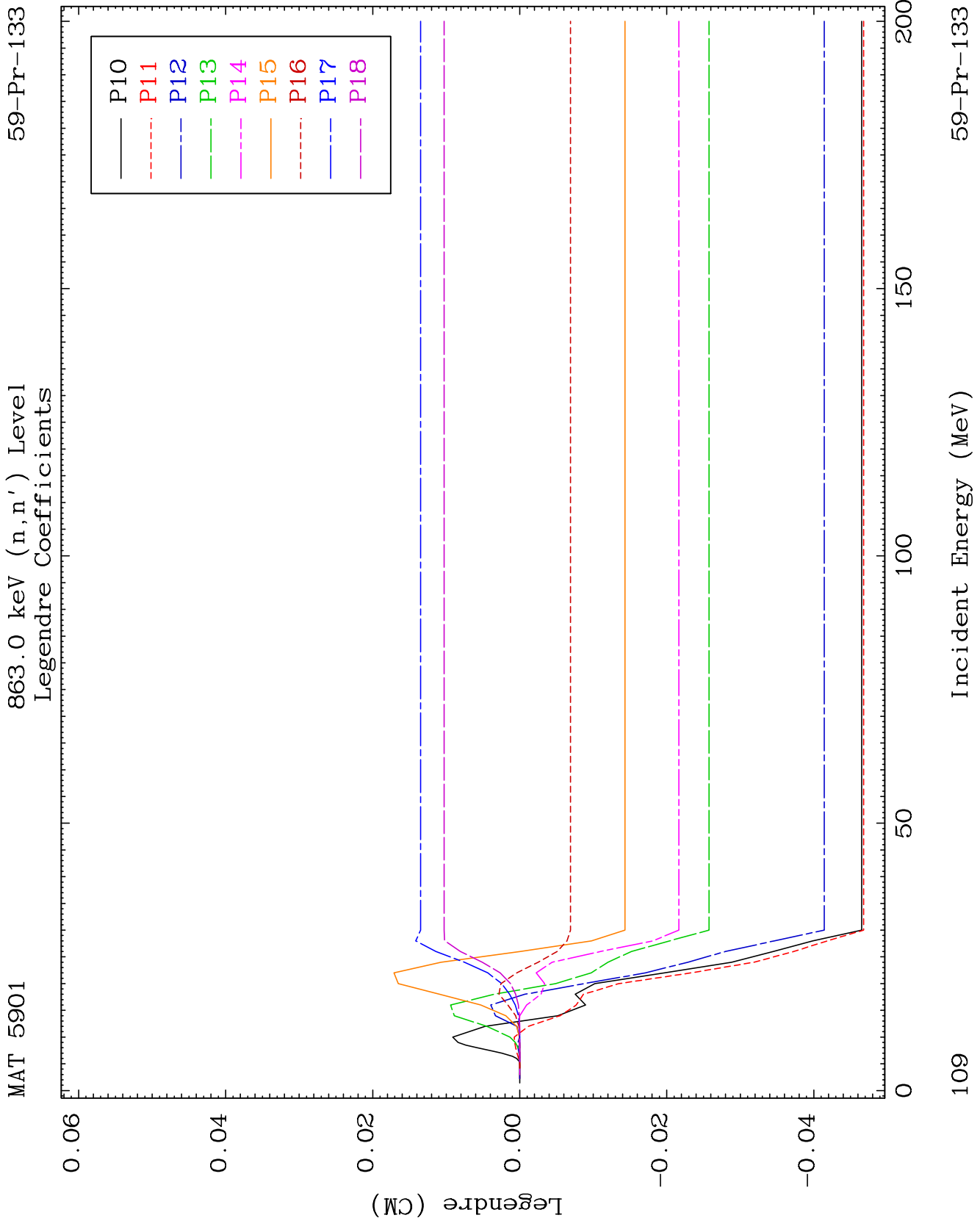


107

Incident Energy (MeV)

59-Pr-133

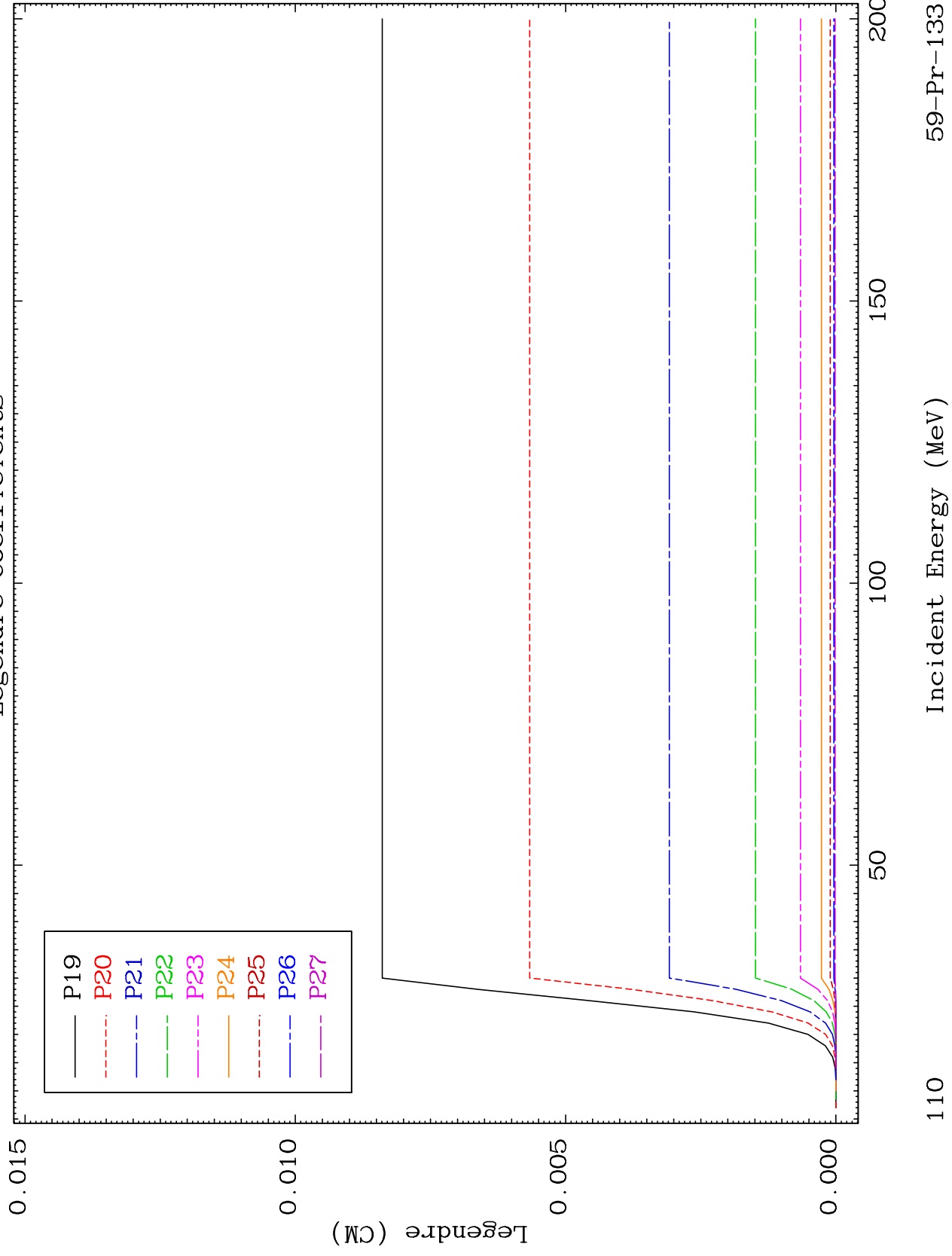




MAT 5901

863.0 keV (n,n') Level
Legendre Coefficients

59-Pr-133



59-Pr-133

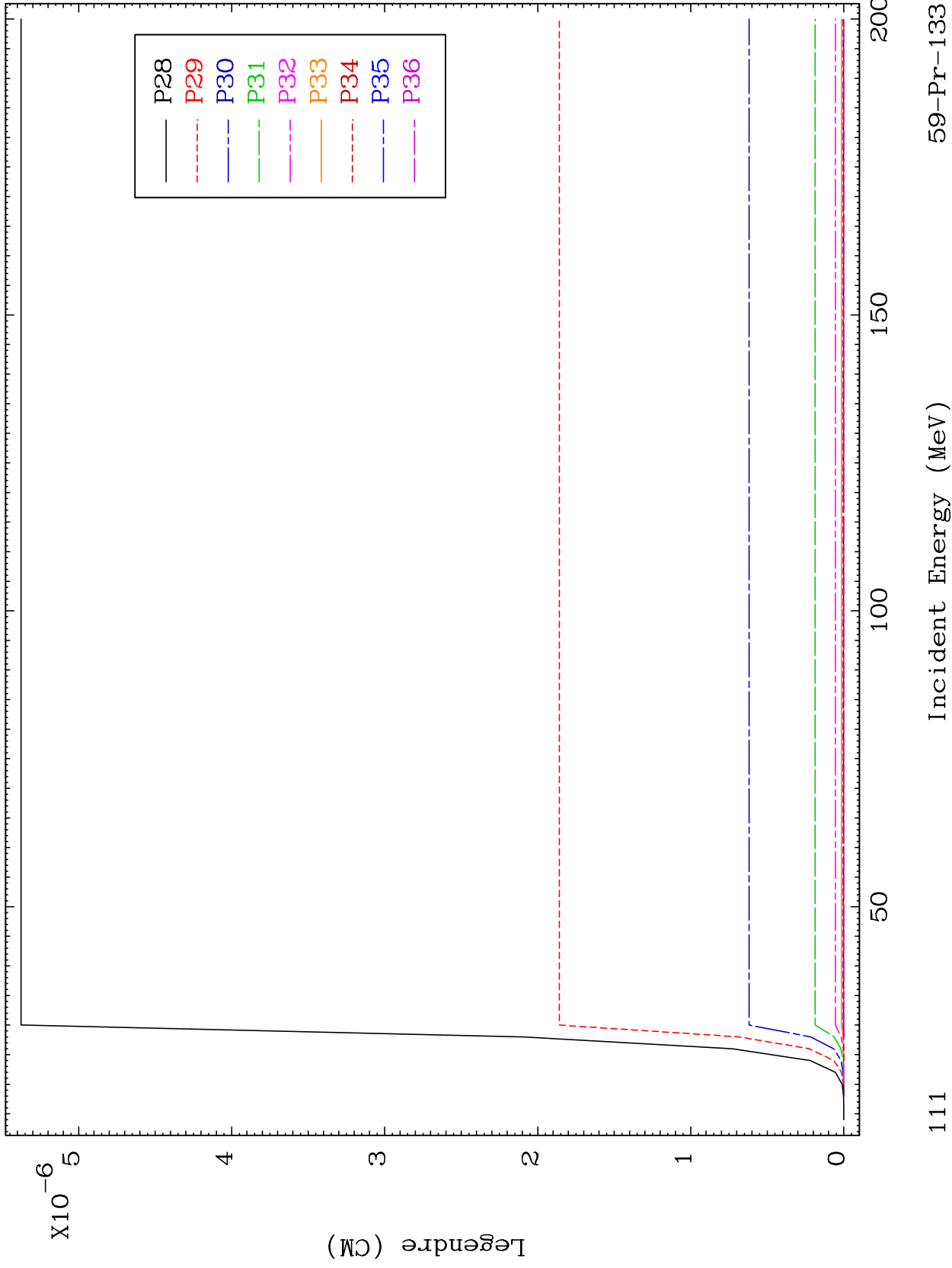
Incident Energy (MeV)

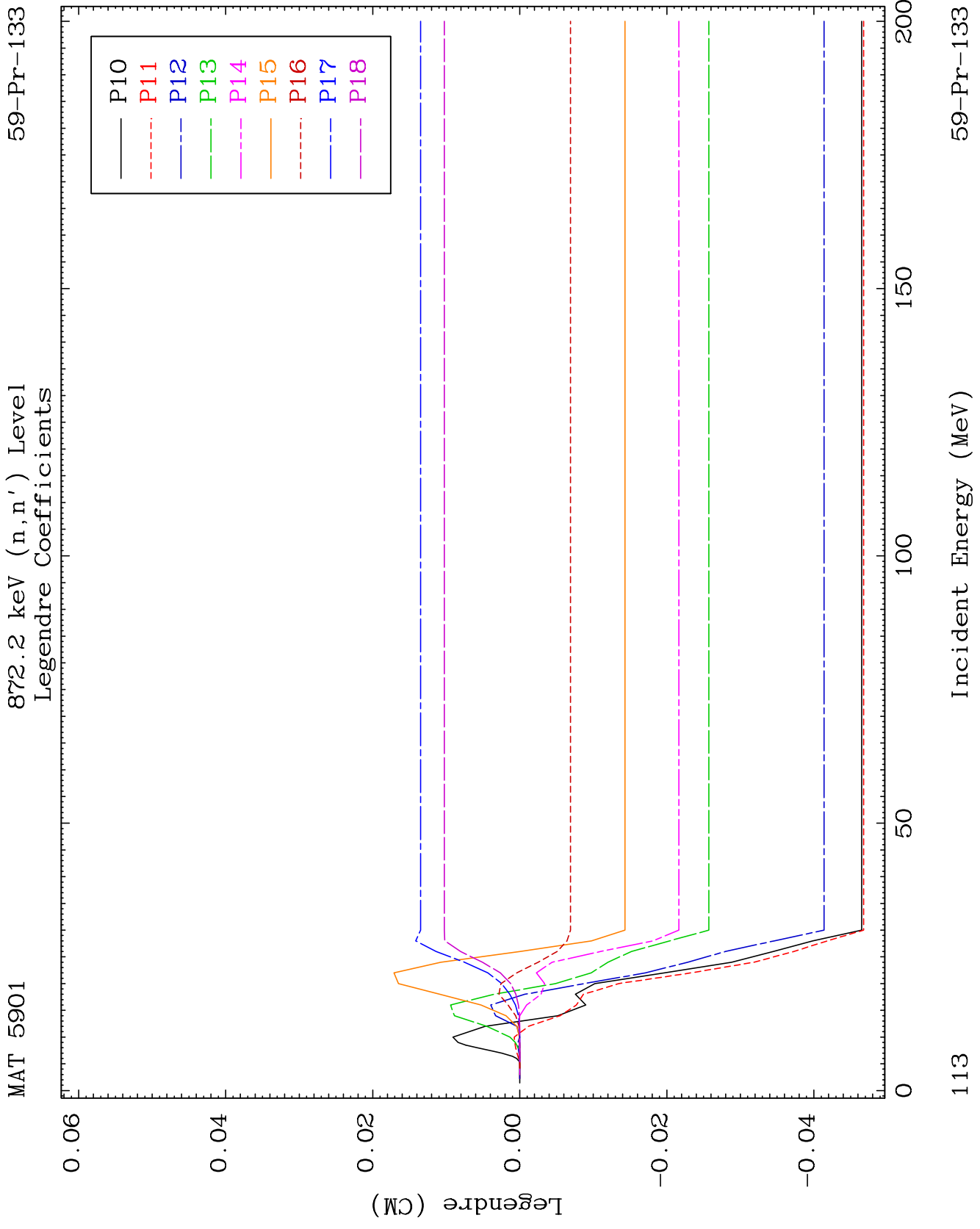
110

MAT 5901

863.0 keV (n,n') Level
Legendre Coefficients

59-Pr-133

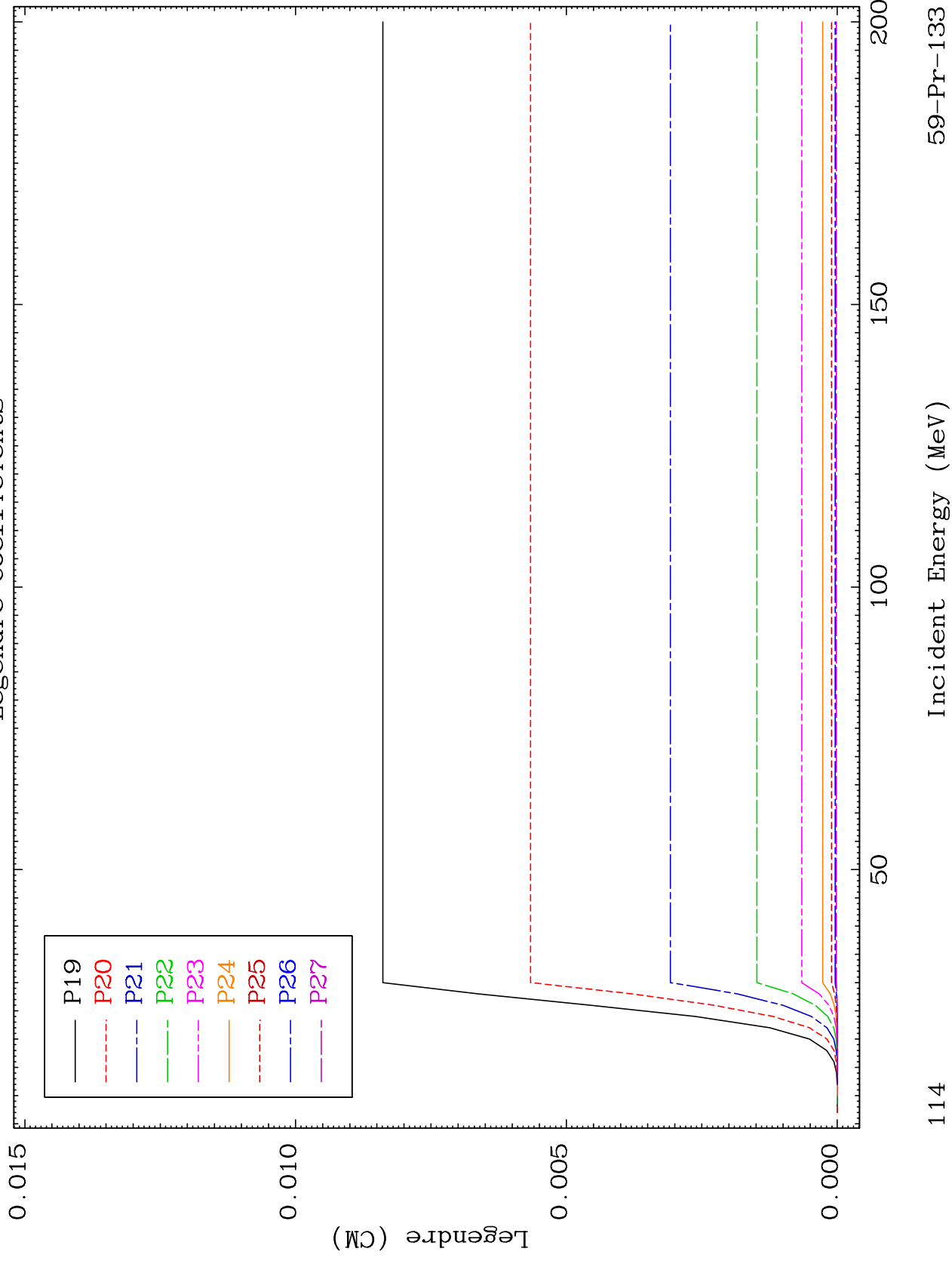




MAT 5901

872.2 keV (n,n') Level
Legendre Coefficients

59-Pr-133



114

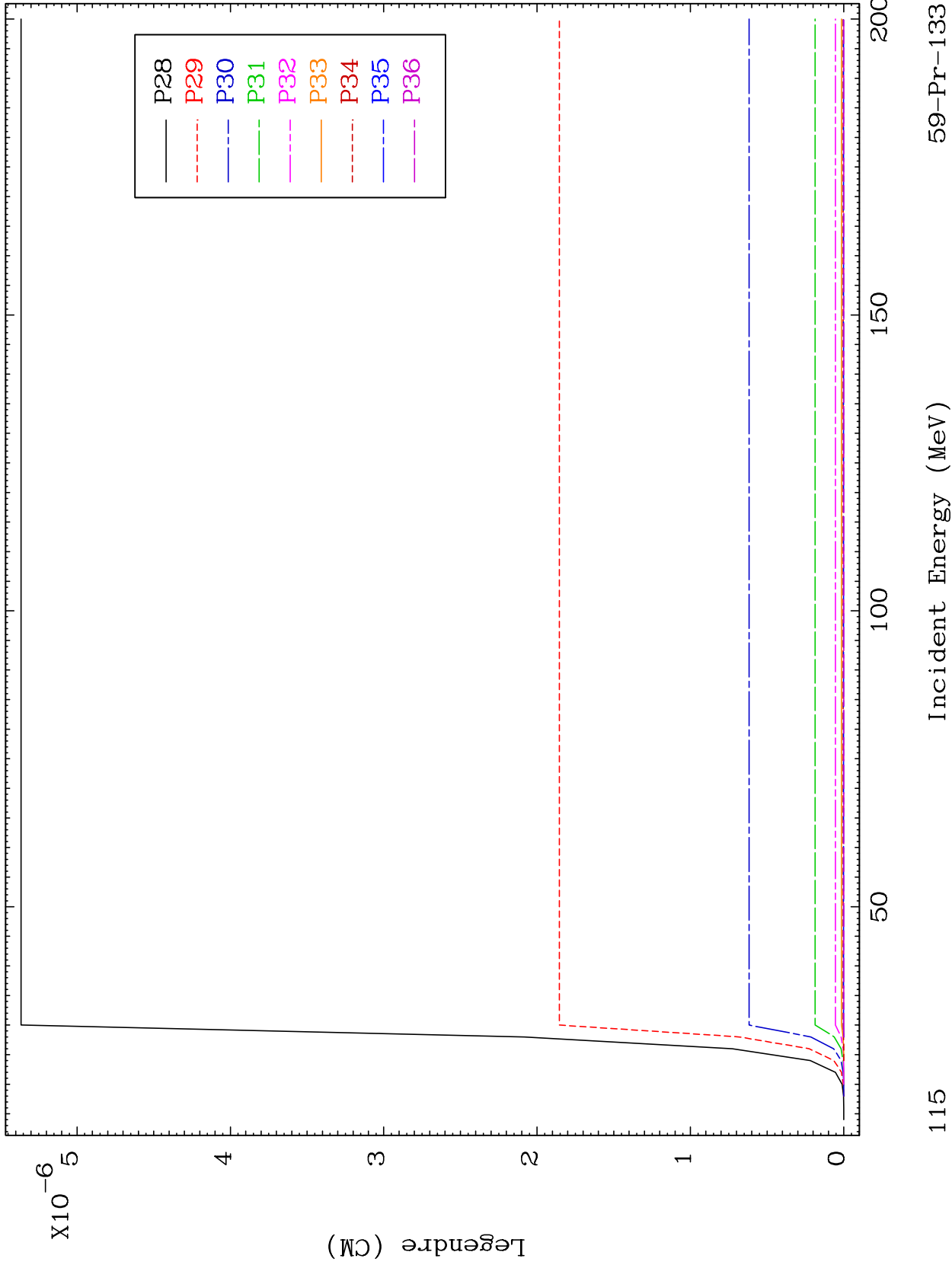
Incident Energy (MeV)

59-Pr-133

MAT 5901

872.2 keV (n, n') Level
Legendre Coefficients

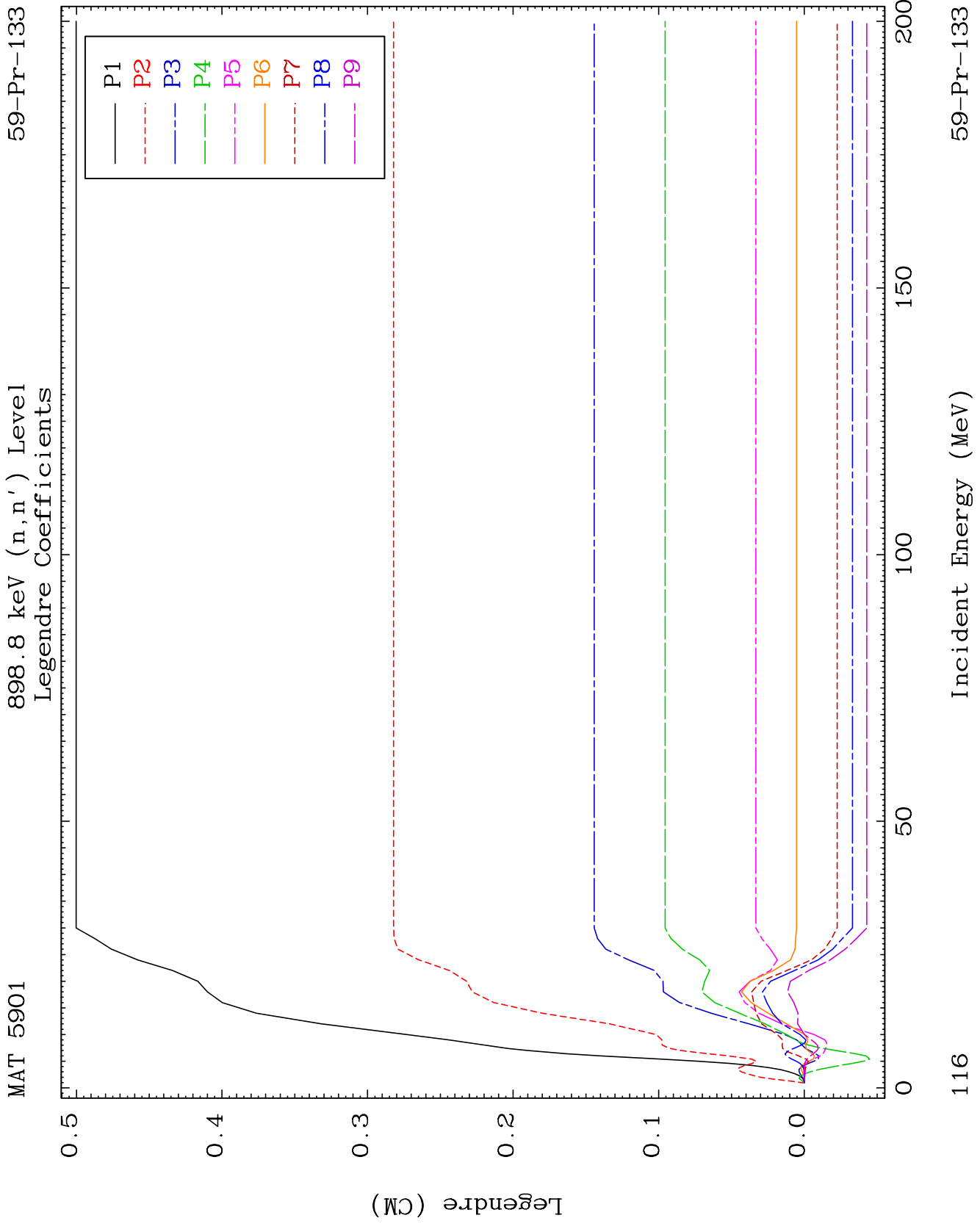
59-Pr-133

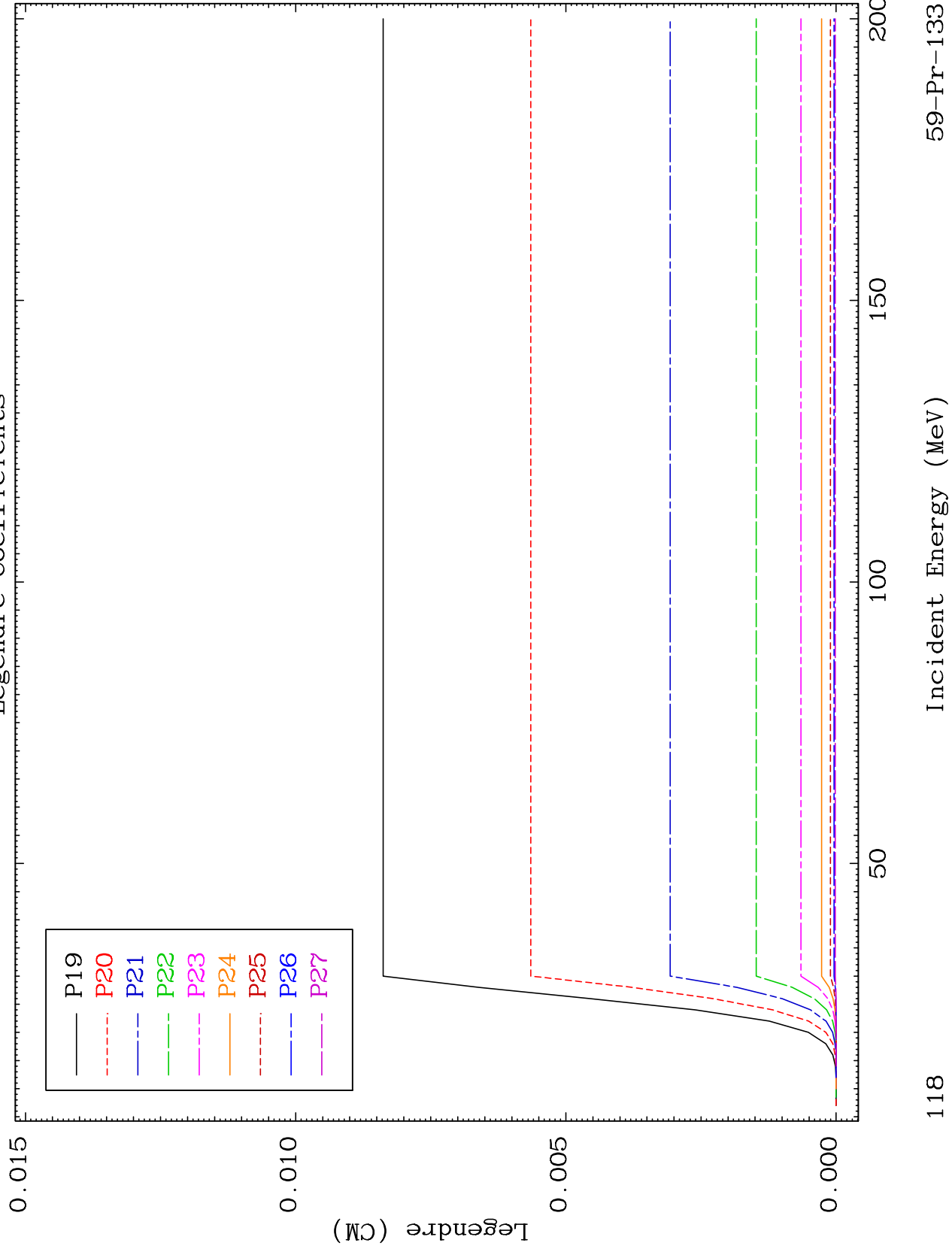


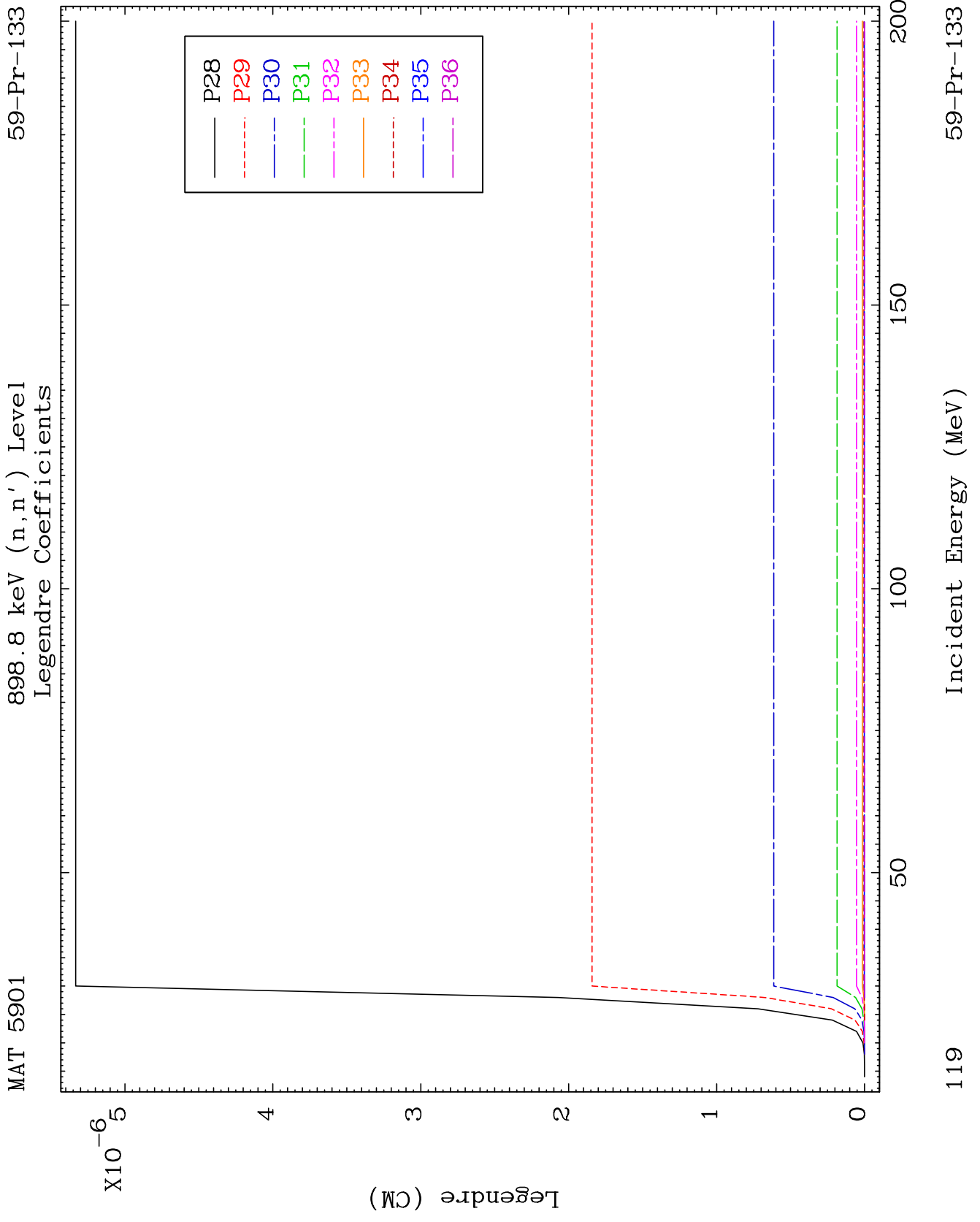
115

Incident Energy (MeV)

59-Pr-133



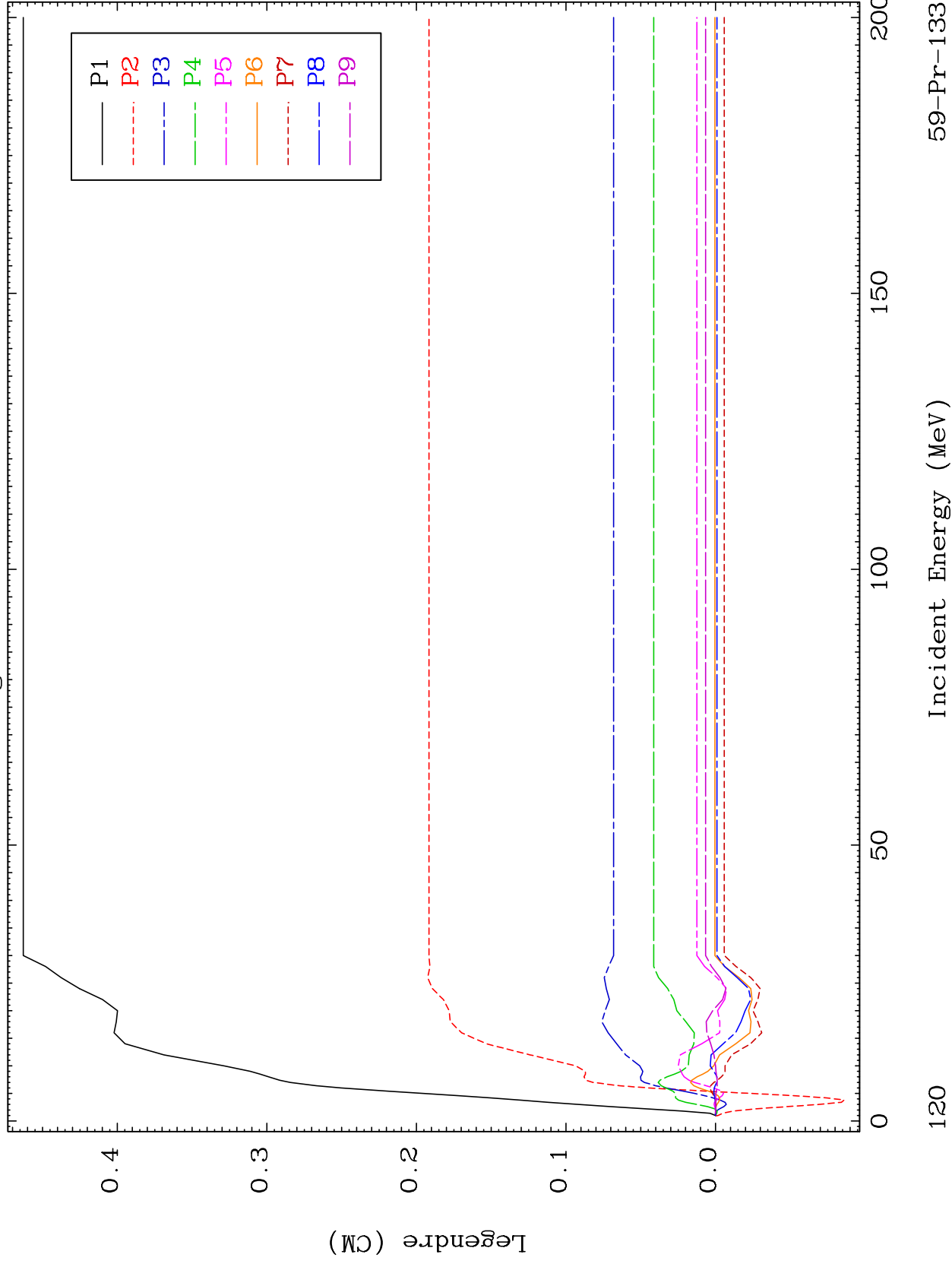




MAT 5901

903.6 keV (n,n') Level
Legendre Coefficients

59-Pr-133

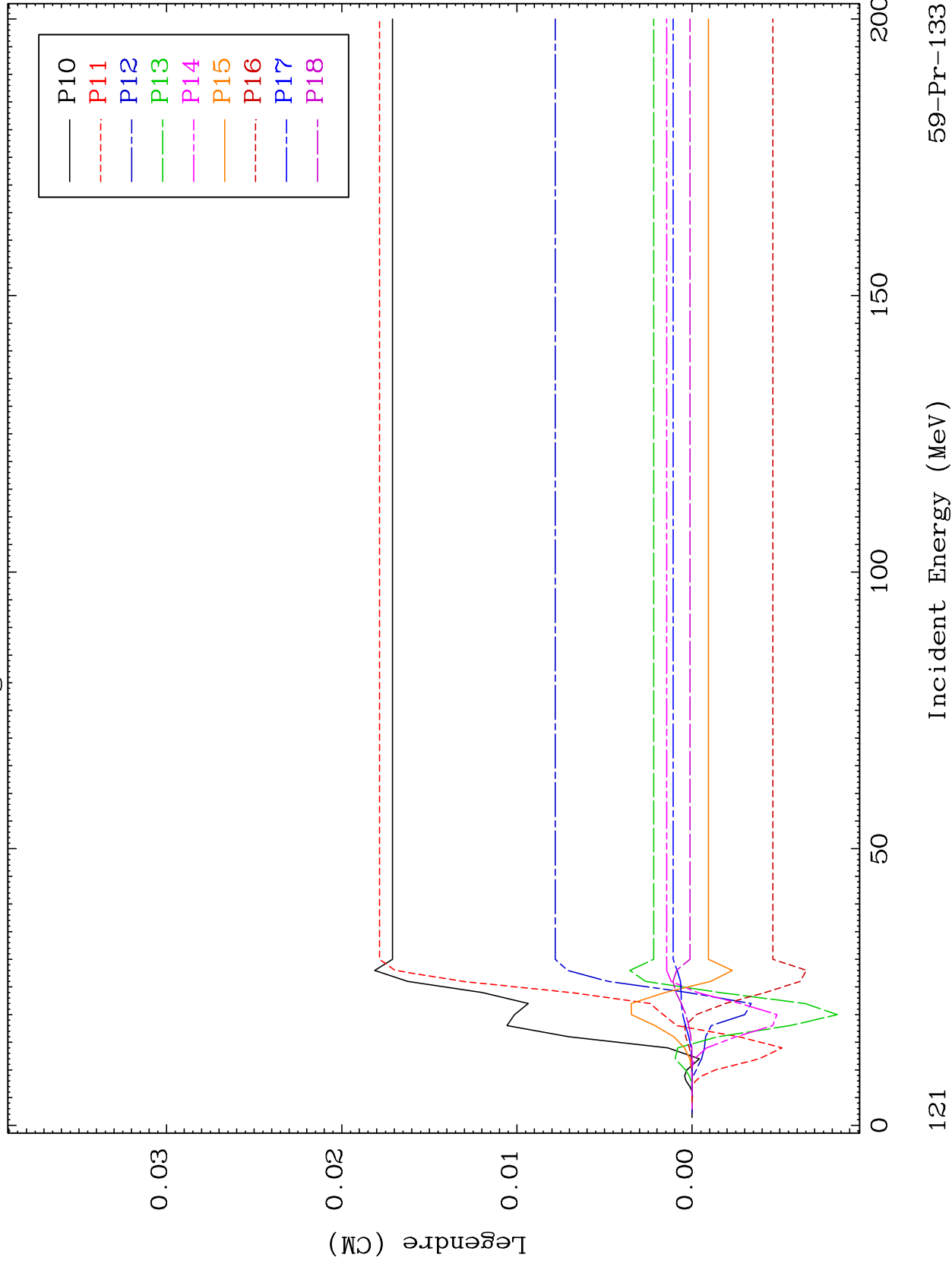


59-Pr-133

MAT 5901

903.6 keV (n,n') Level
Legendre Coefficients

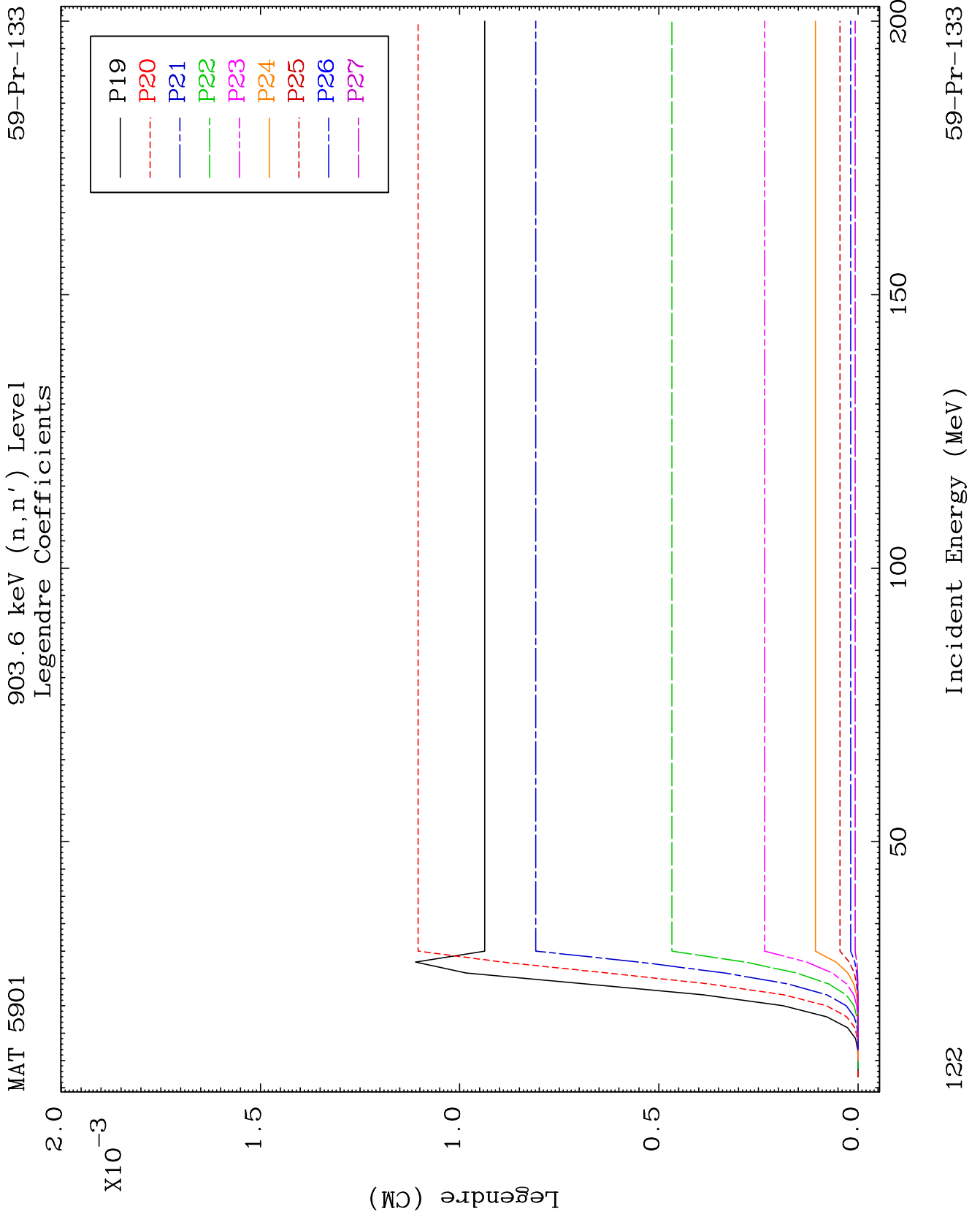
59-Pr-133



59-Pr-133

Incident Energy (MeV)

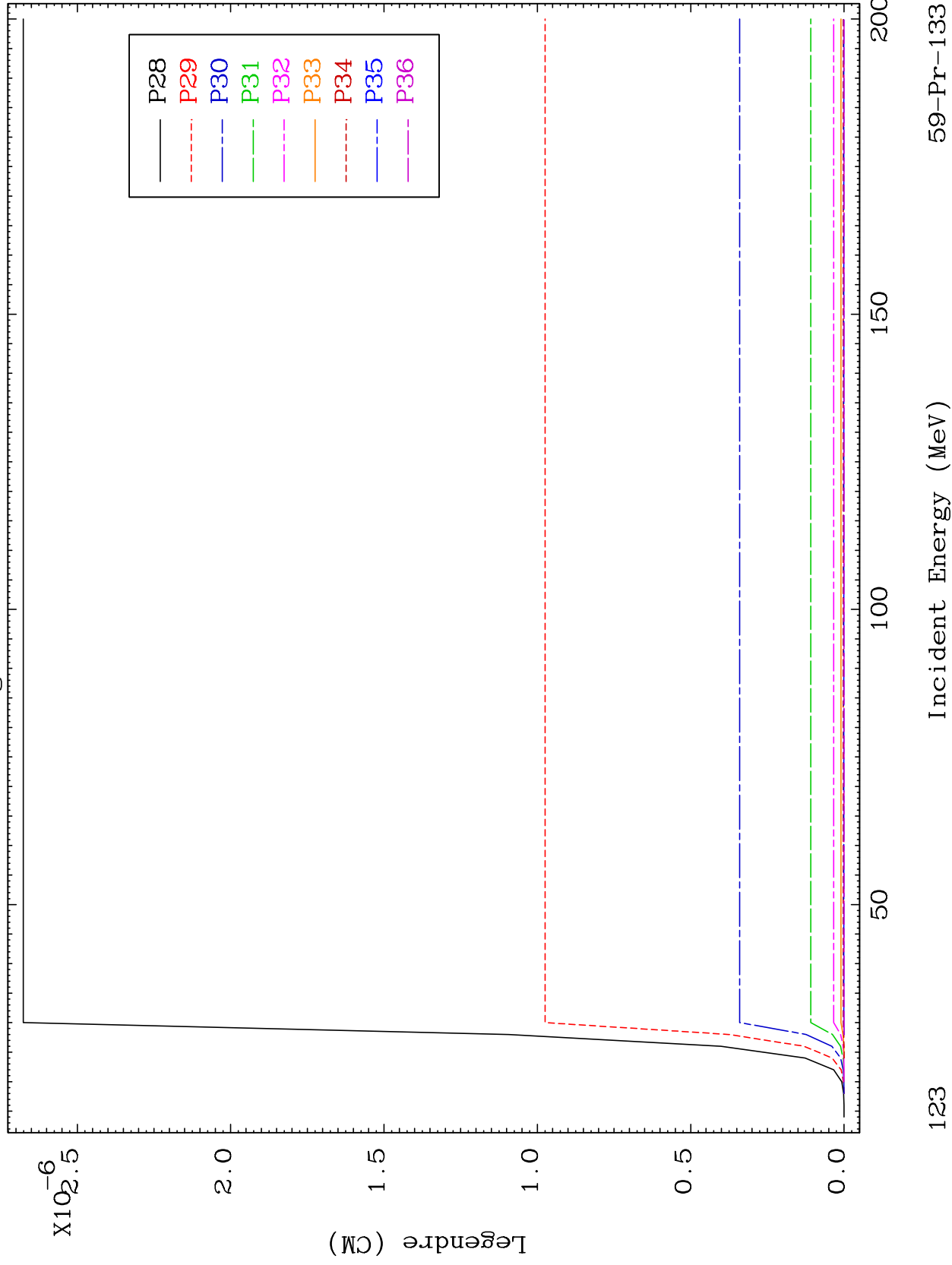
121



MAT 5901

903.6 keV (n,n') Level
Legendre Coefficients

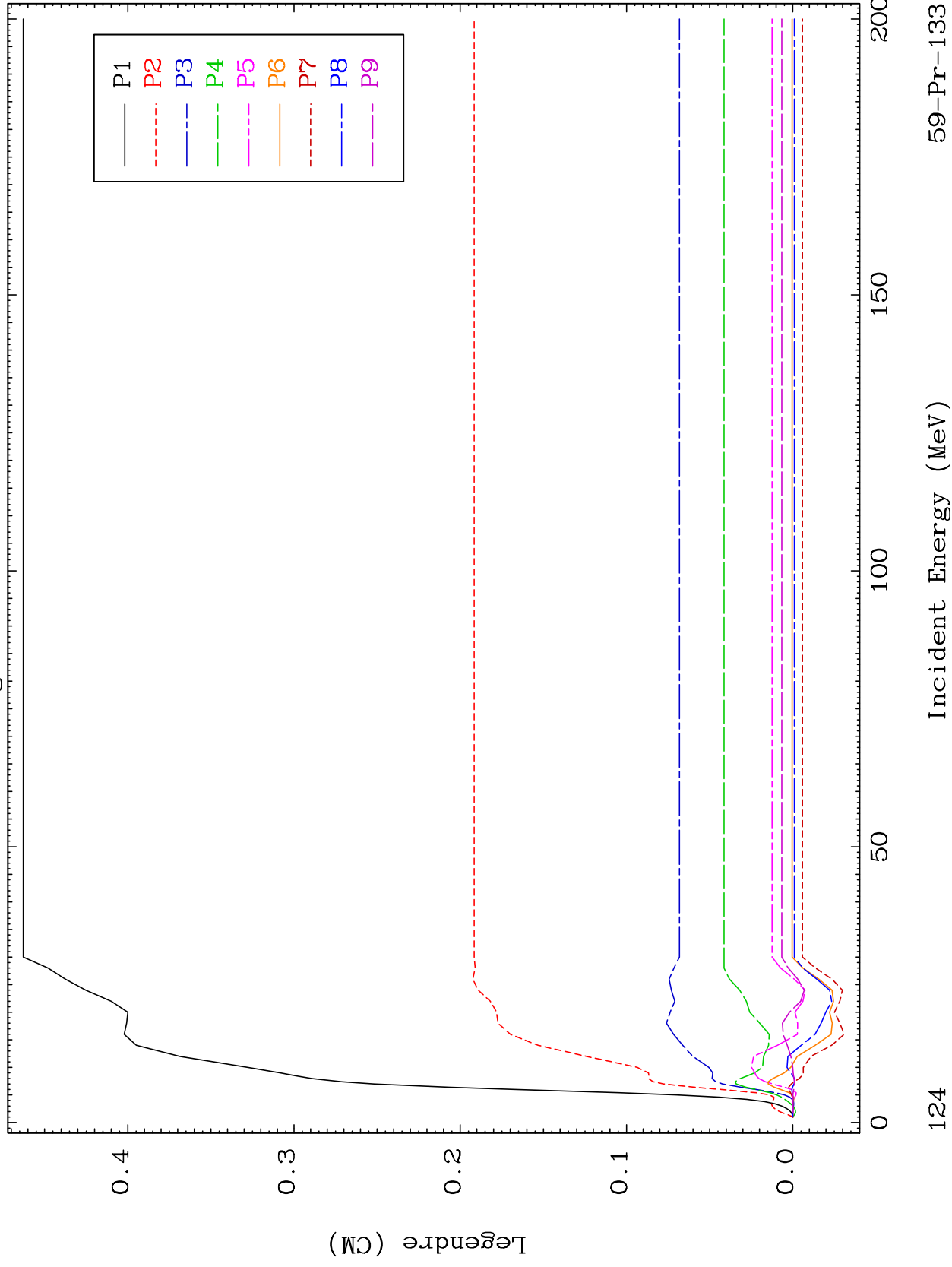
59-Pr-133



MAT 5901

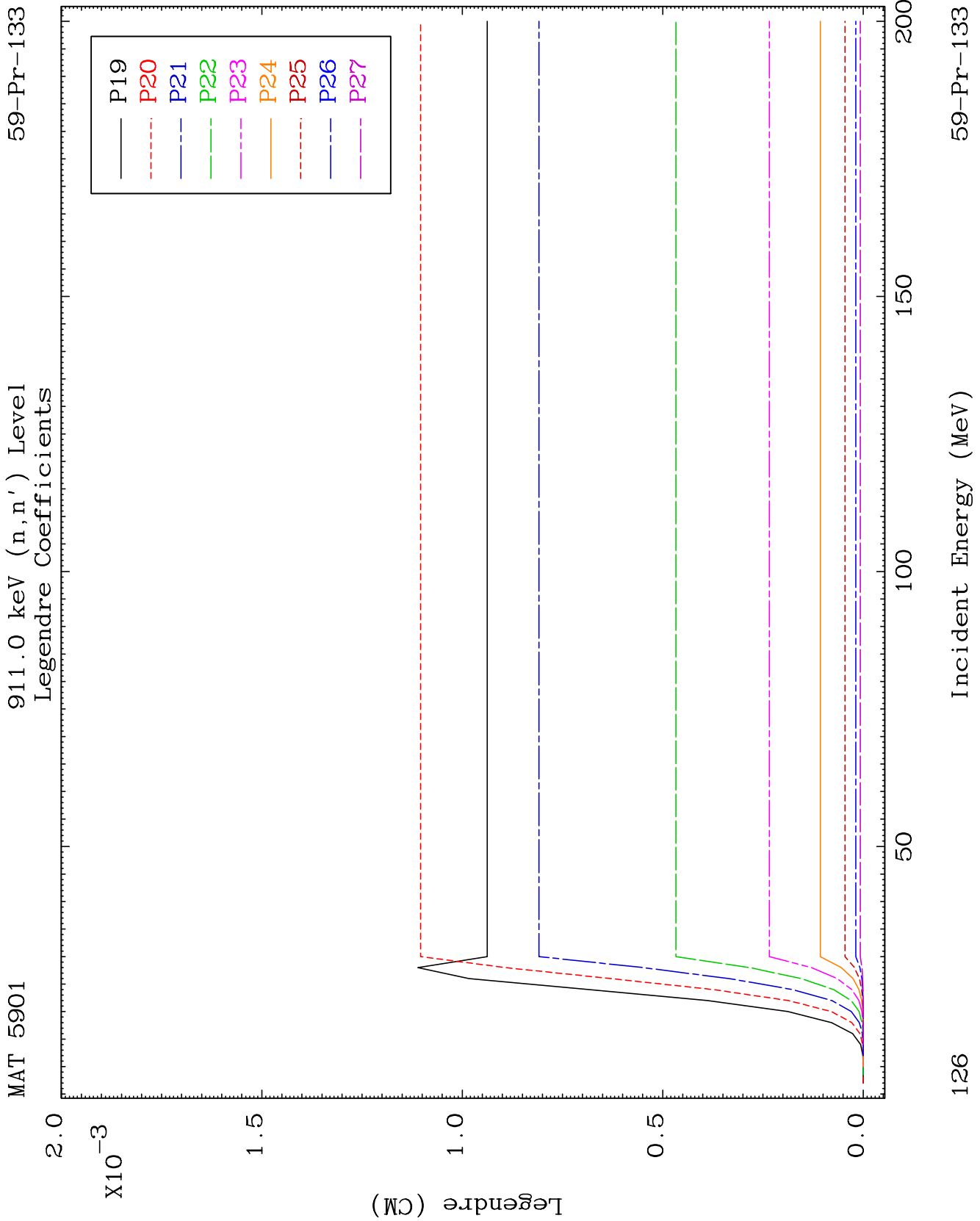
911.0 keV (n,n') Level
Legendre Coefficients

59-Pr-133



59-Pr-133

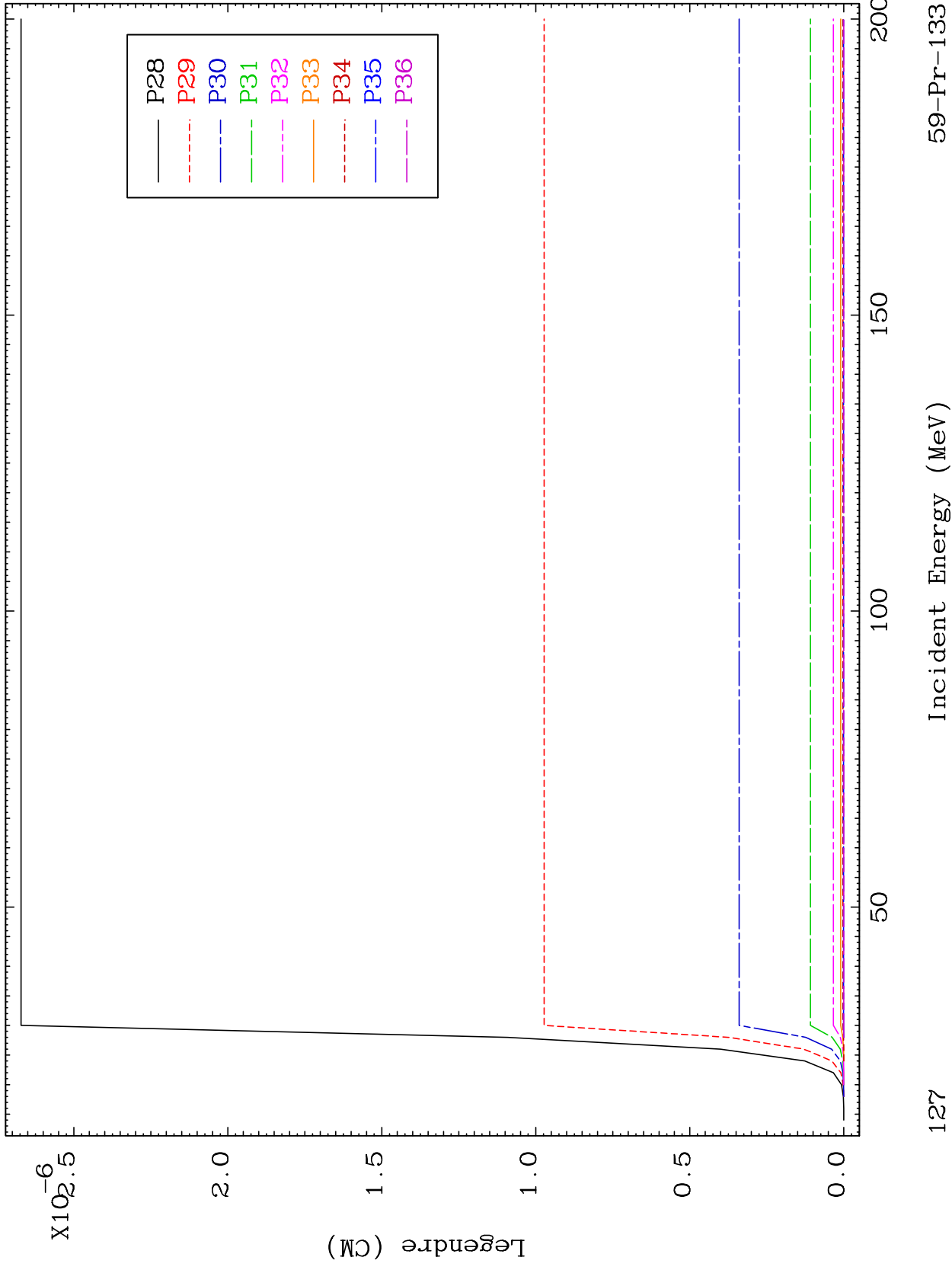
124



MAT 5901

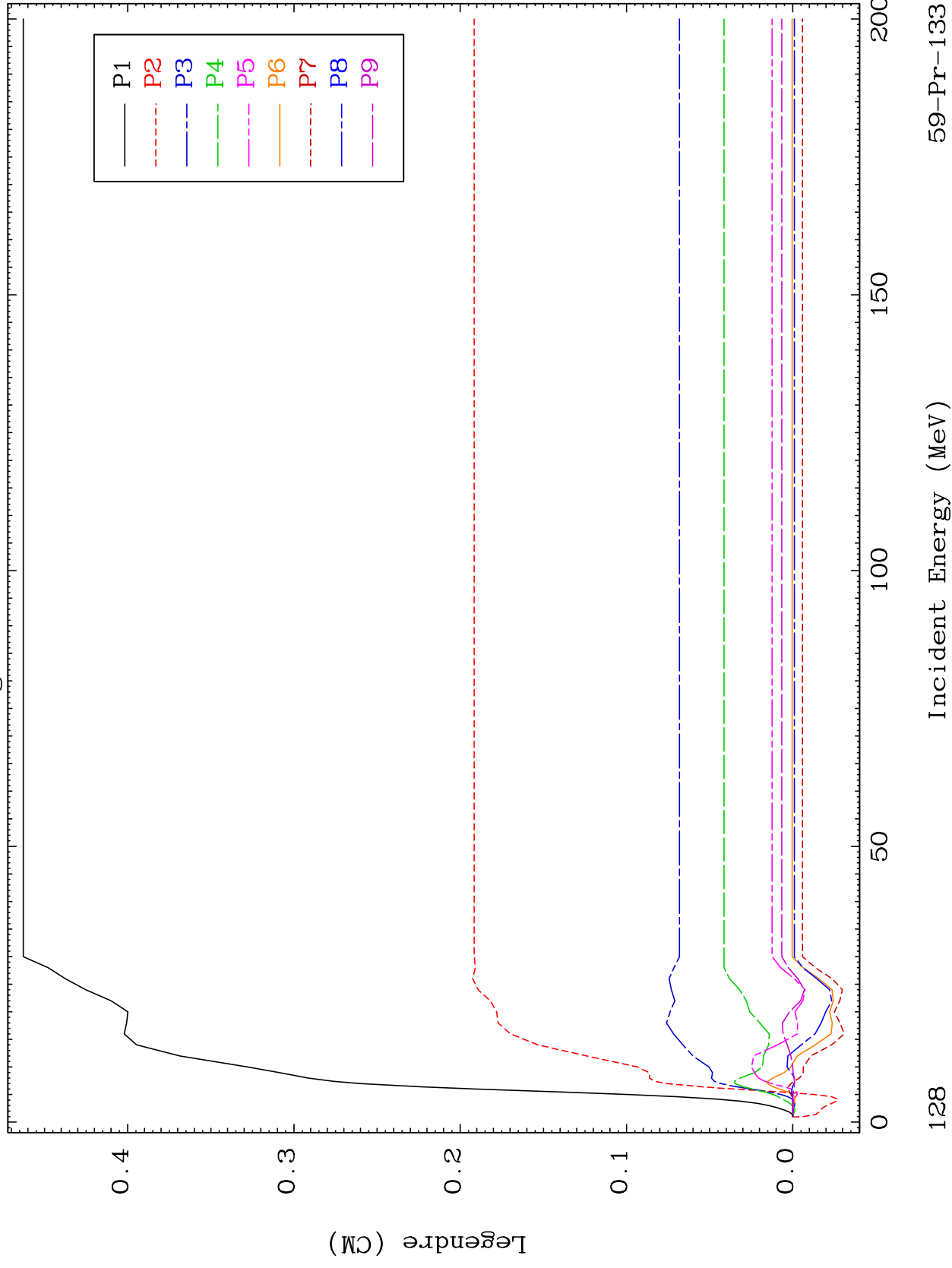
911.0 keV (n, n') Level
Legendre Coefficients

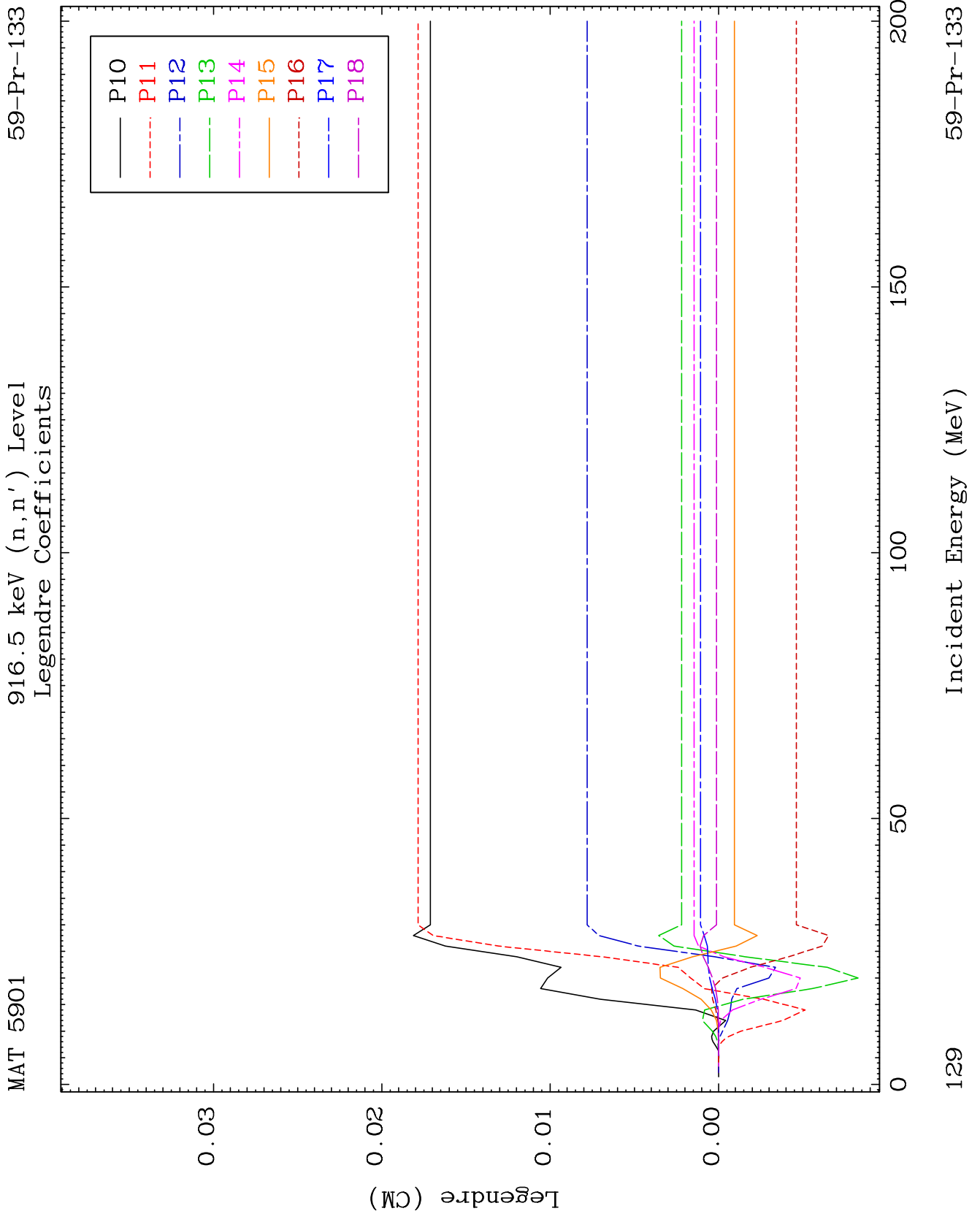
59-Pr-133



127

59-Pr-133

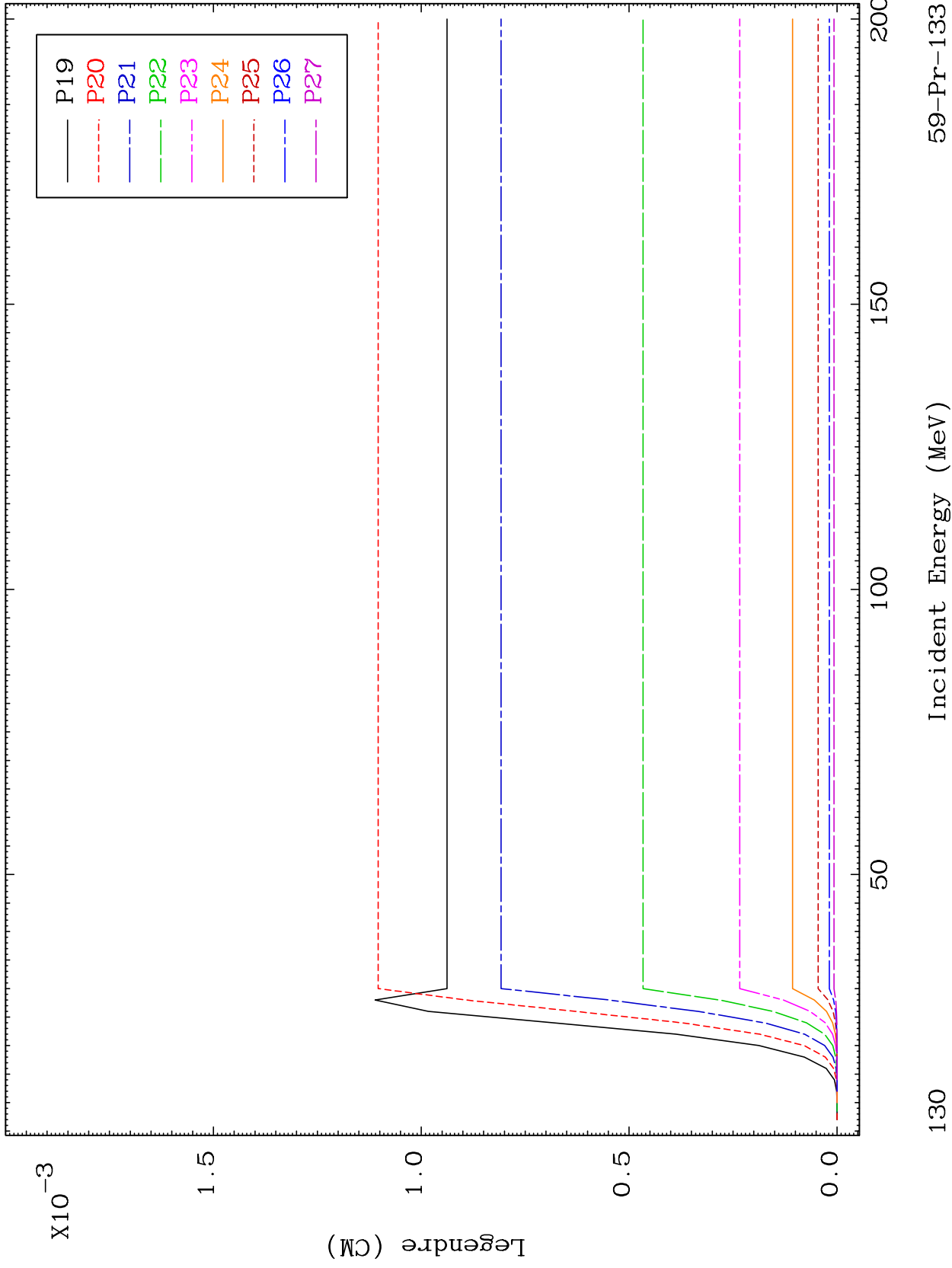




MAT 5901

916.5 keV (n,n') Level
Legendre Coefficients

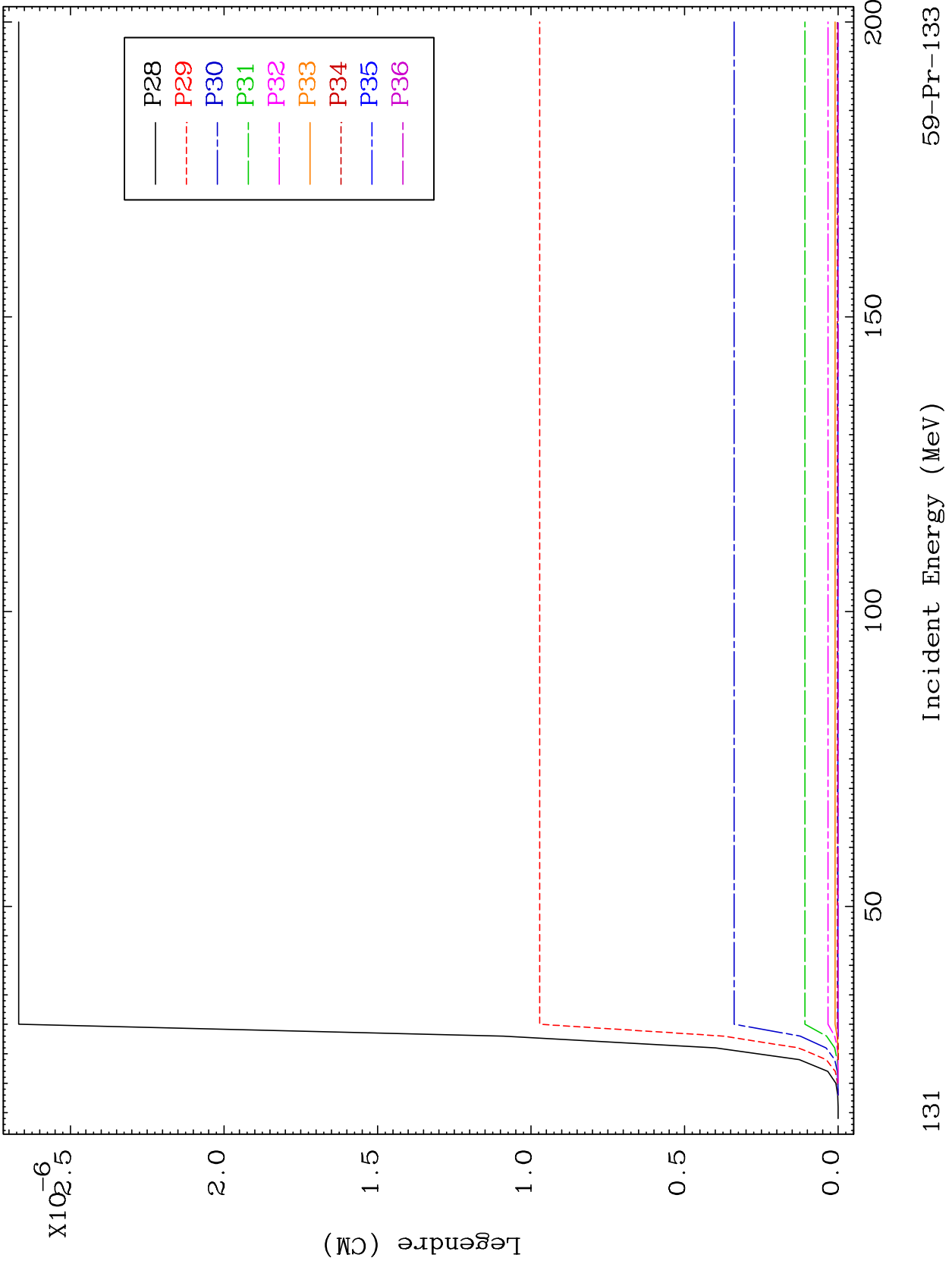
59-Pr-133



130

Incident Energy (MeV)

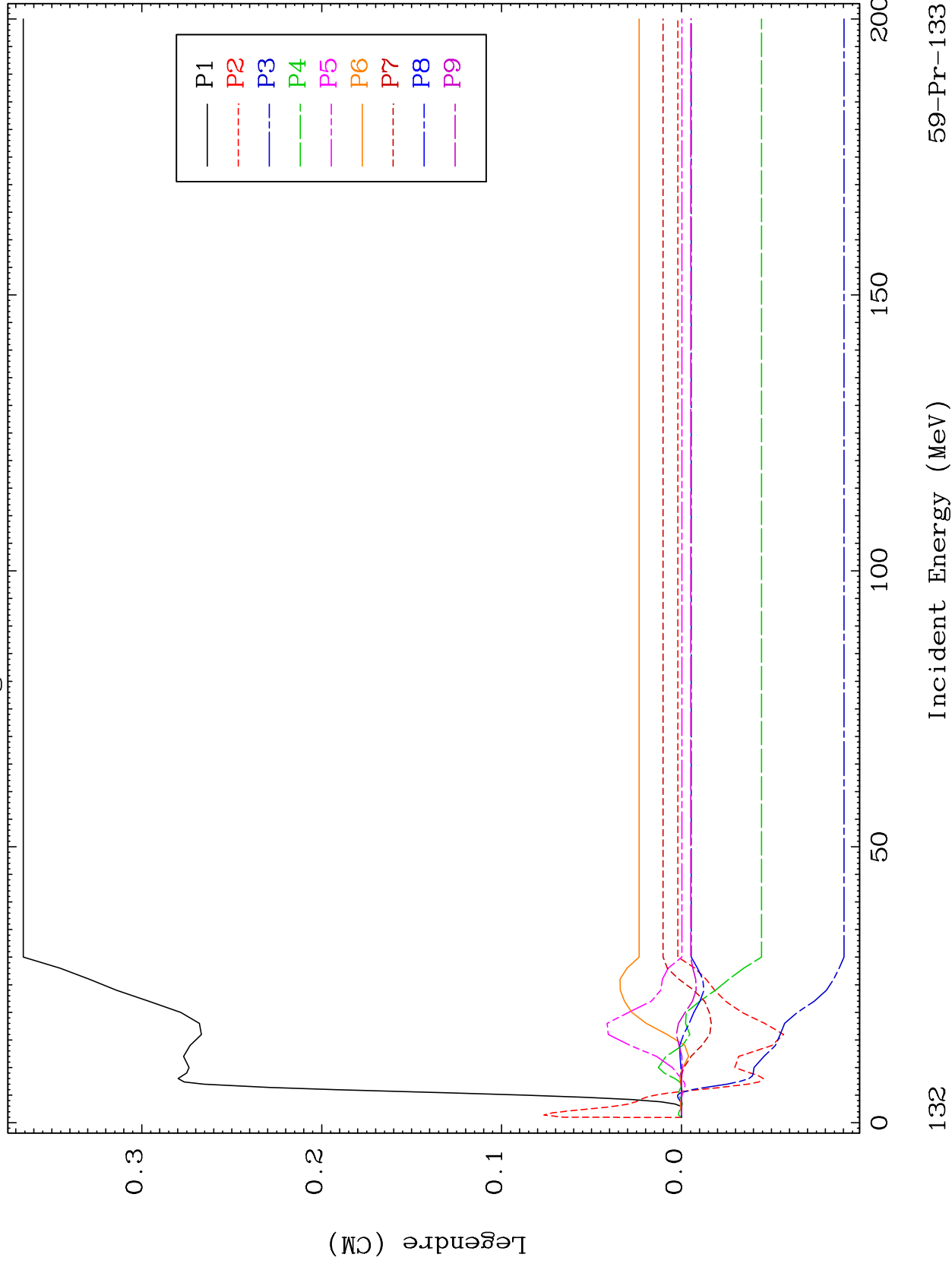
59-Pr-133



MAT 5901

938.5 keV (n,n') Level
Legendre Coefficients

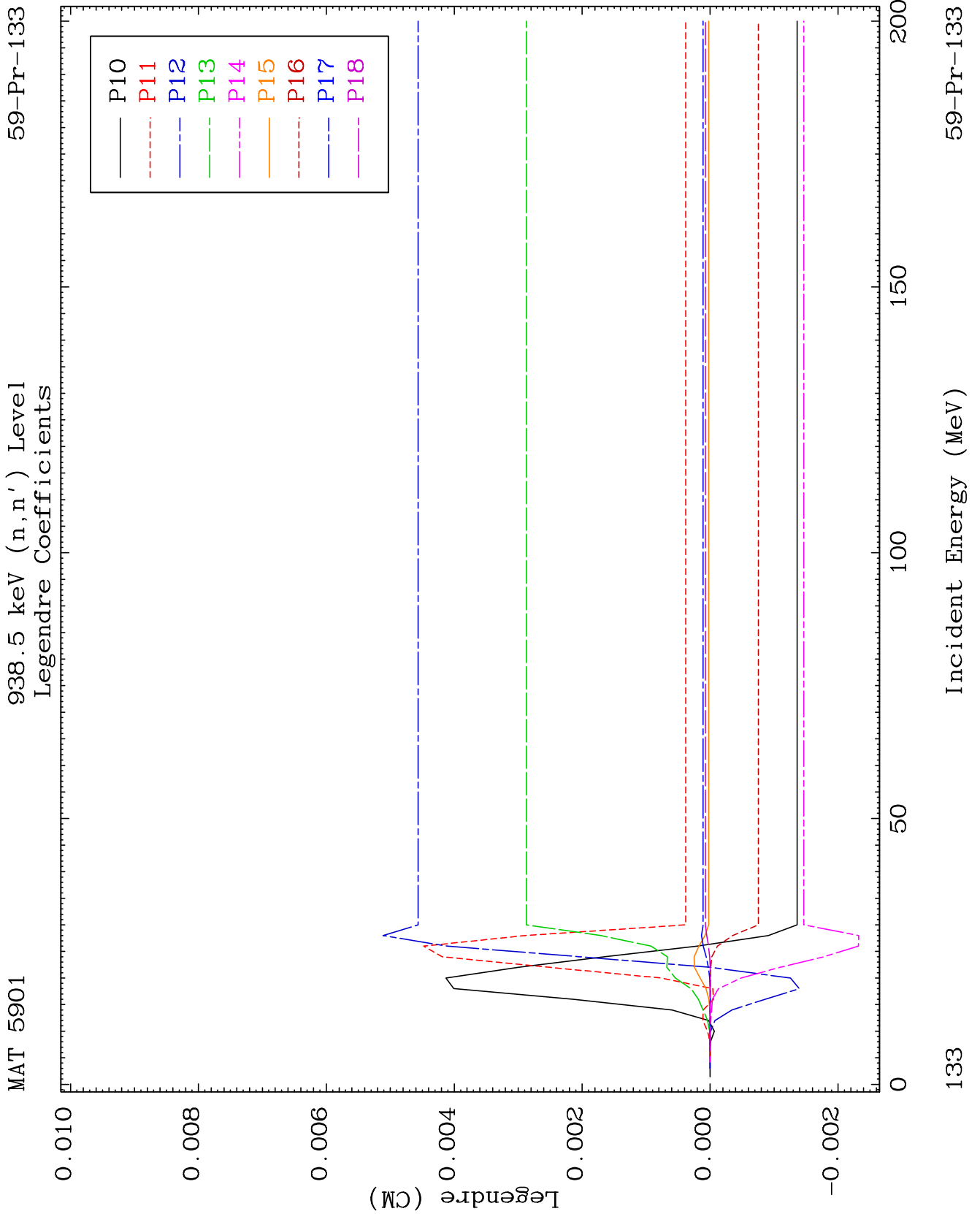
59-Pr-133



59-Pr-133

Incident Energy (MeV)

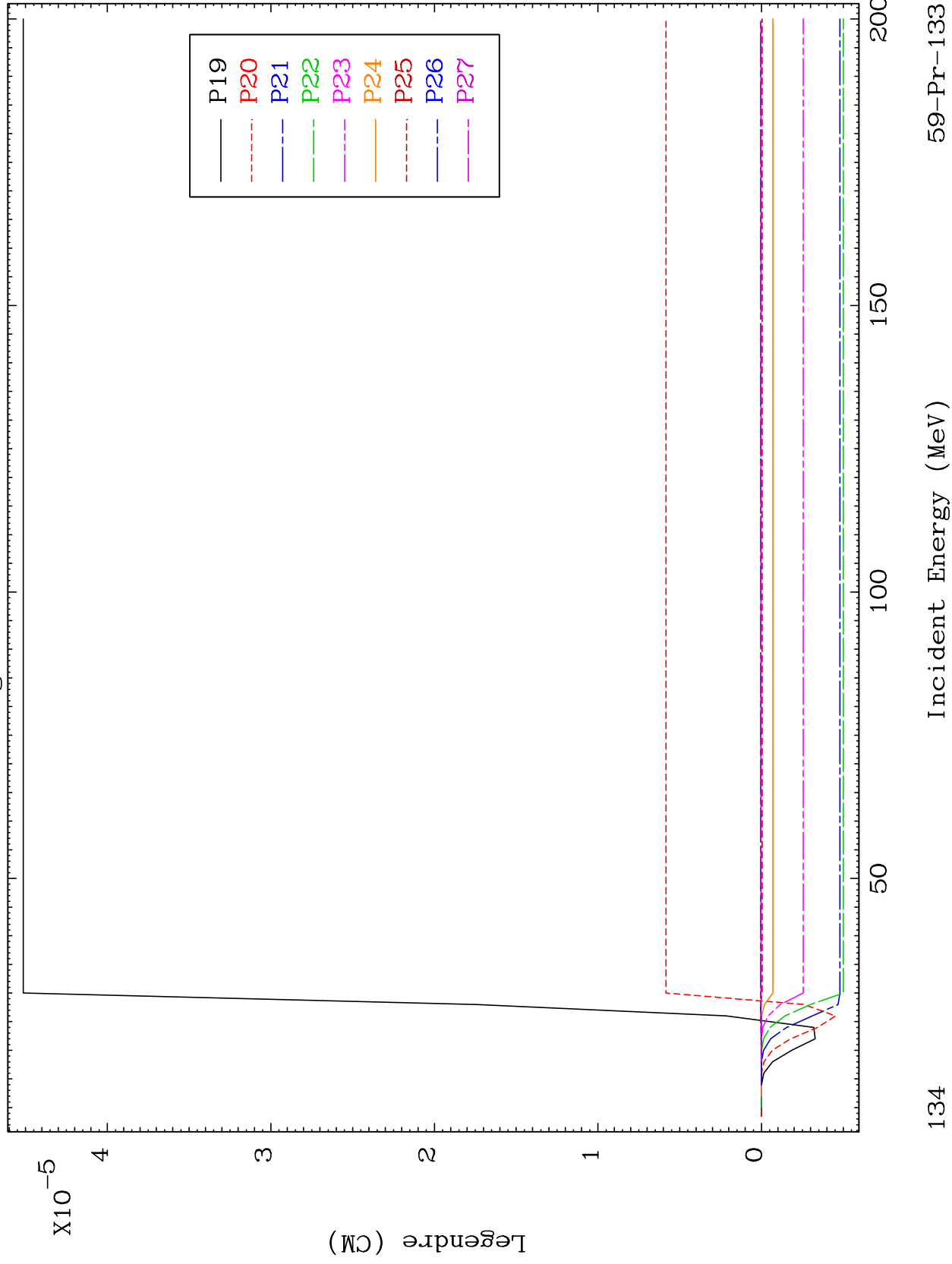
132



MAT 5901

938.5 keV (n,n') Level
Legendre Coefficients

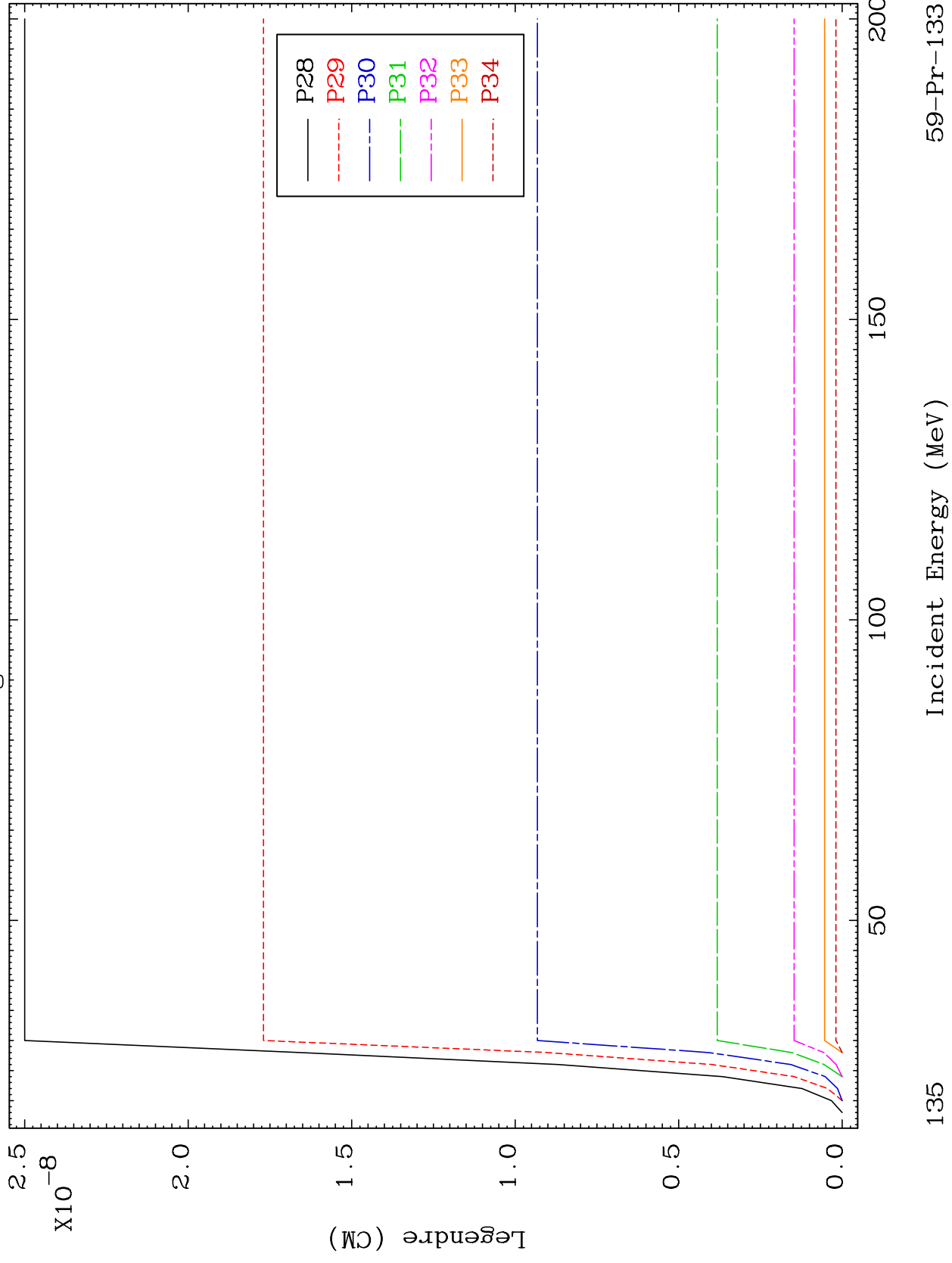
59-Pr-133



MAT 5901

938.5 keV (n,n') Level
Legendre Coefficients

59-Pr-133



135

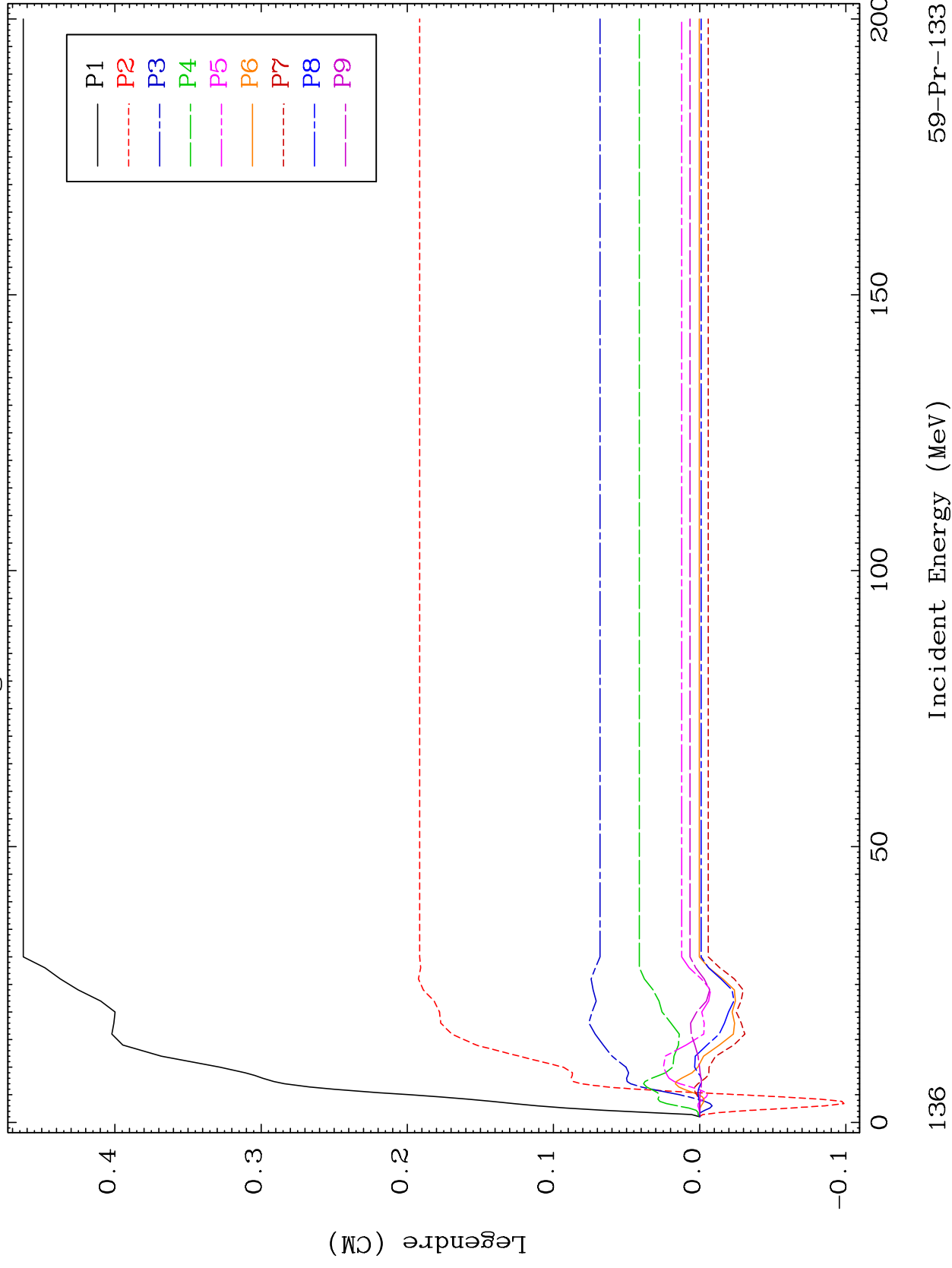
Incident Energy (MeV)

59-Pr-133

MAT 5901

958.2 keV (n,n') Level
Legendre Coefficients

59-Pr-133



59-Pr-133

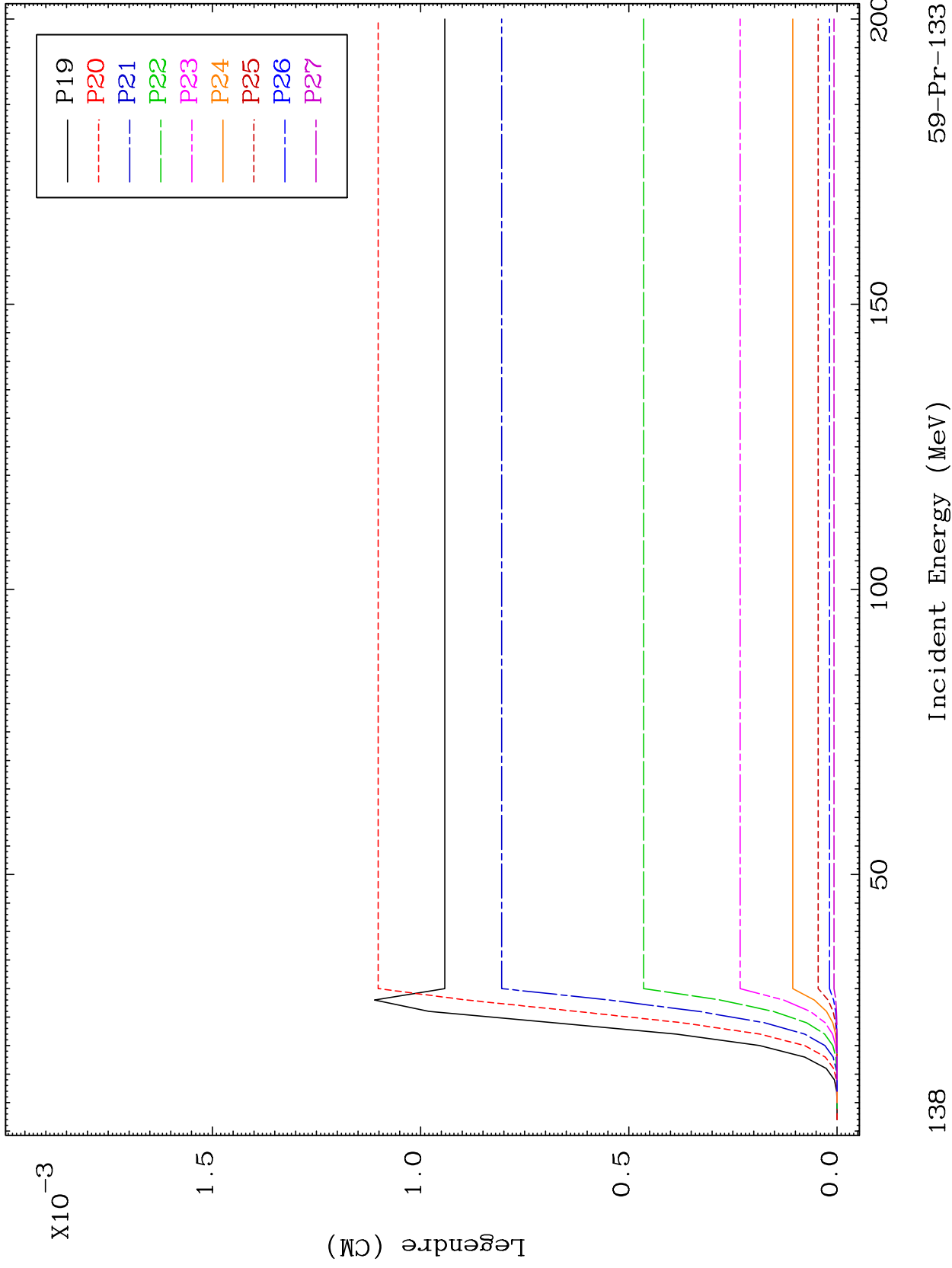
Incident Energy (MeV)

136

MAT 5901

958.2 keV (n,n') Level
Legendre Coefficients

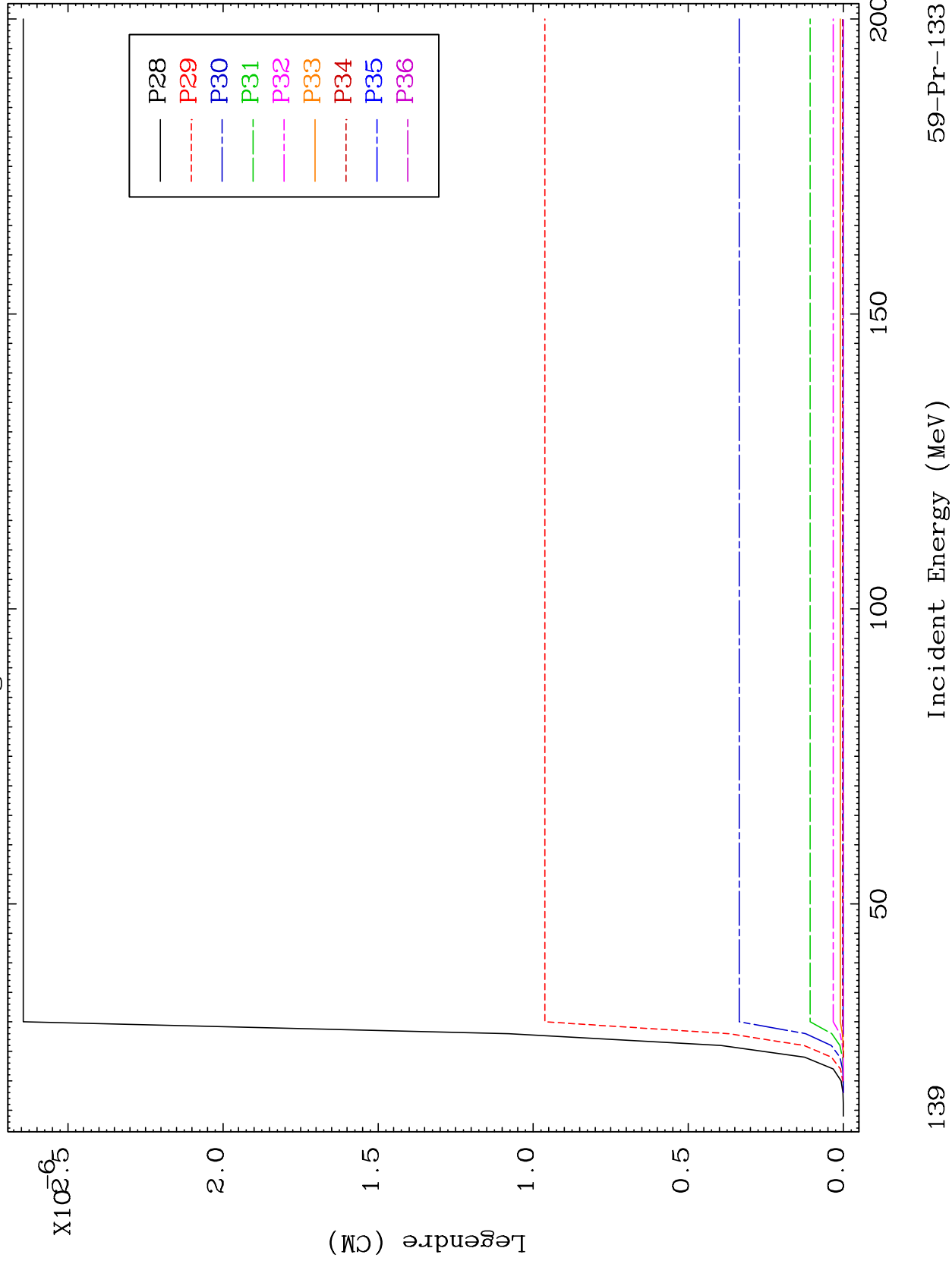
59-Pr-133



MAT 5901

958.2 keV (n, n') Level
Legendre Coefficients

59-Pr-133



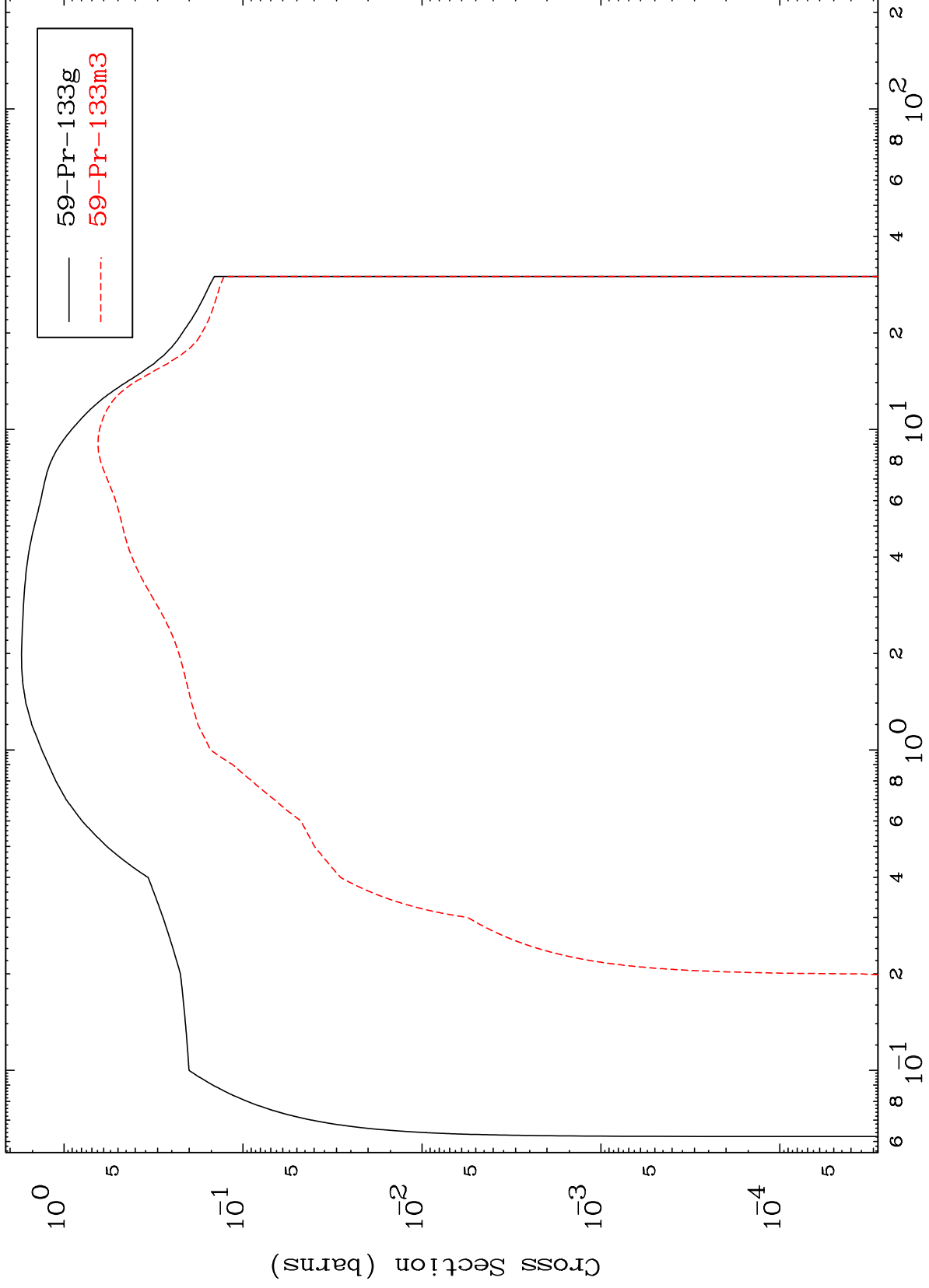
139

59-Pr-133

MAT 5901

59-Pr-133

Inelastic Radionuclide Production Cross Section



140

Incident Energy (MeV)

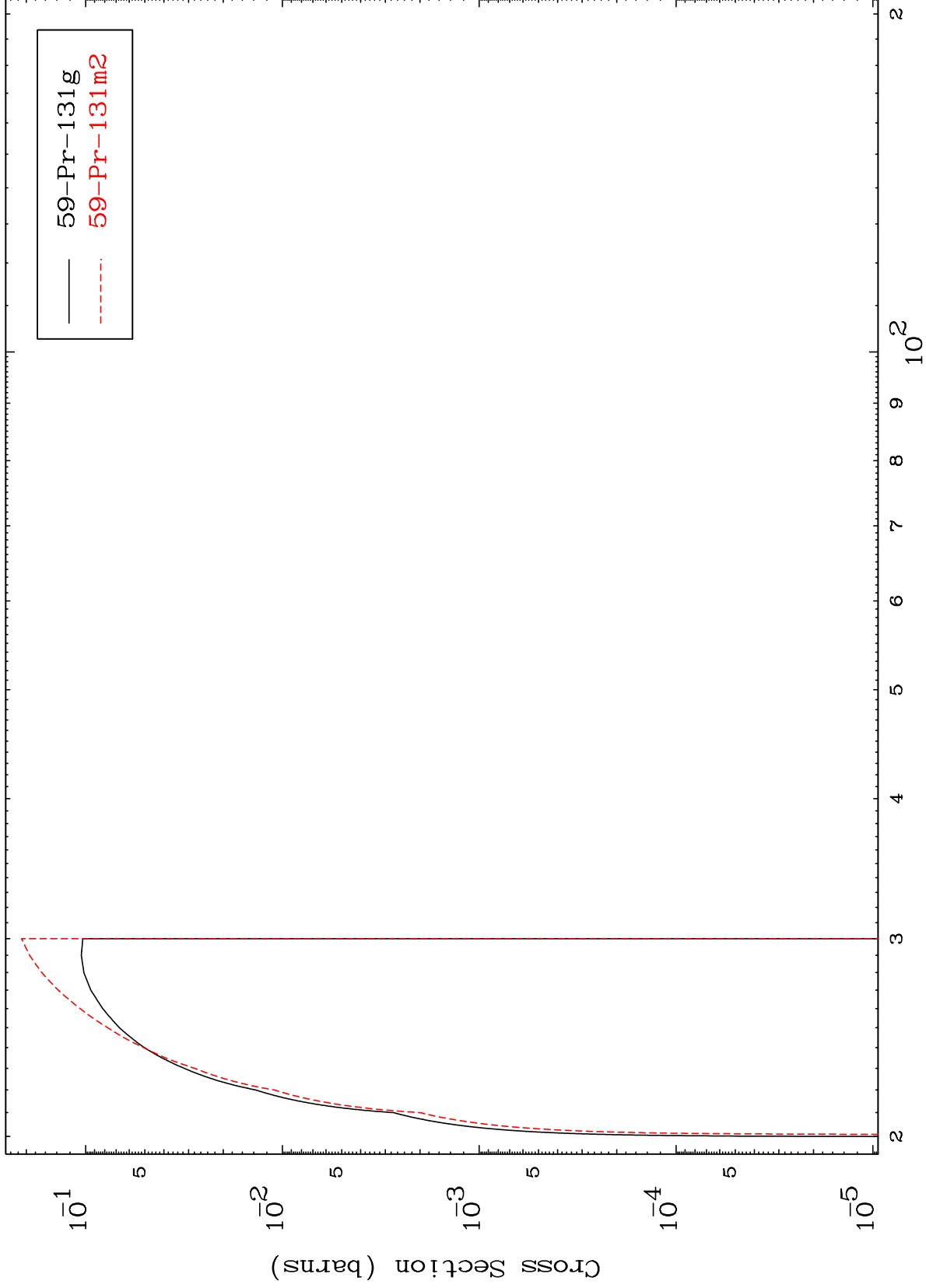
59-Pr-133

MAT 5901

(n,3n)

59-Pr-133

Radionuclide Production Cross Section



141

Incident Energy (MeV)

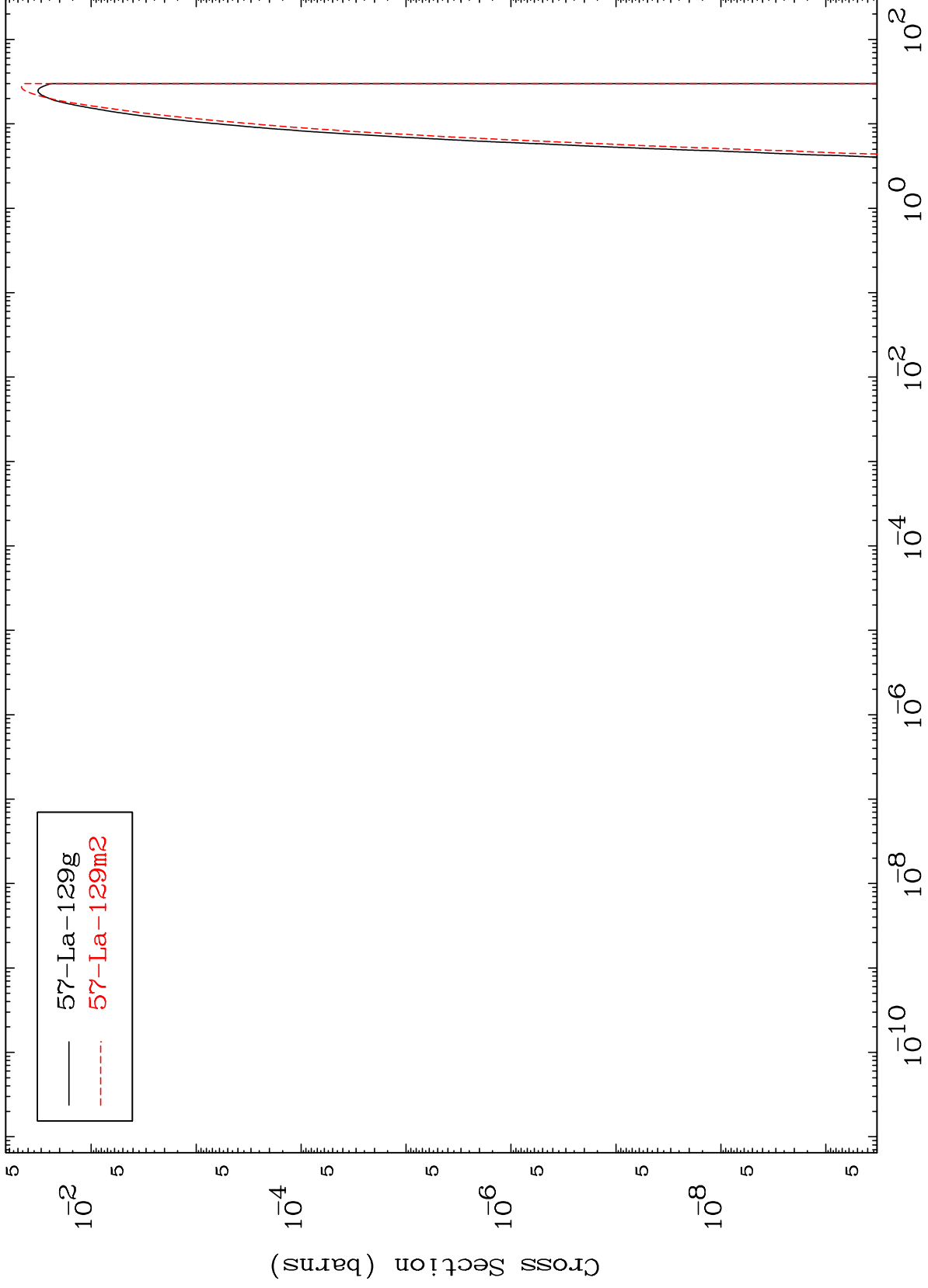
59-Pr-133

MAT 5901

$(n, n') \alpha$

59-Pr-133

Radionuclide Production Cross Section

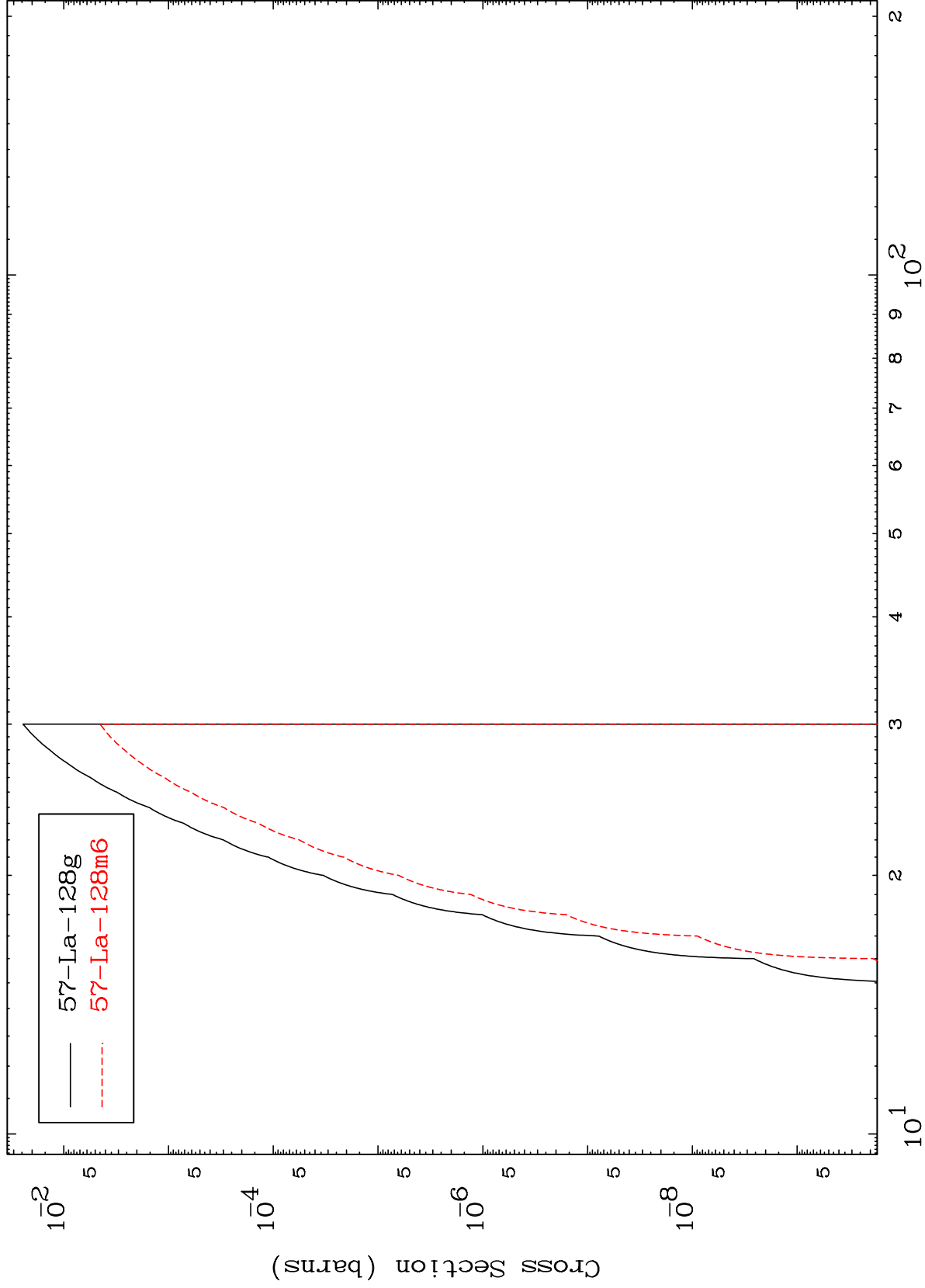


MAT 5901

(n,2n) α

59-Pr-133

Radionuclide Production Cross Section



143

Incident Energy (MeV)

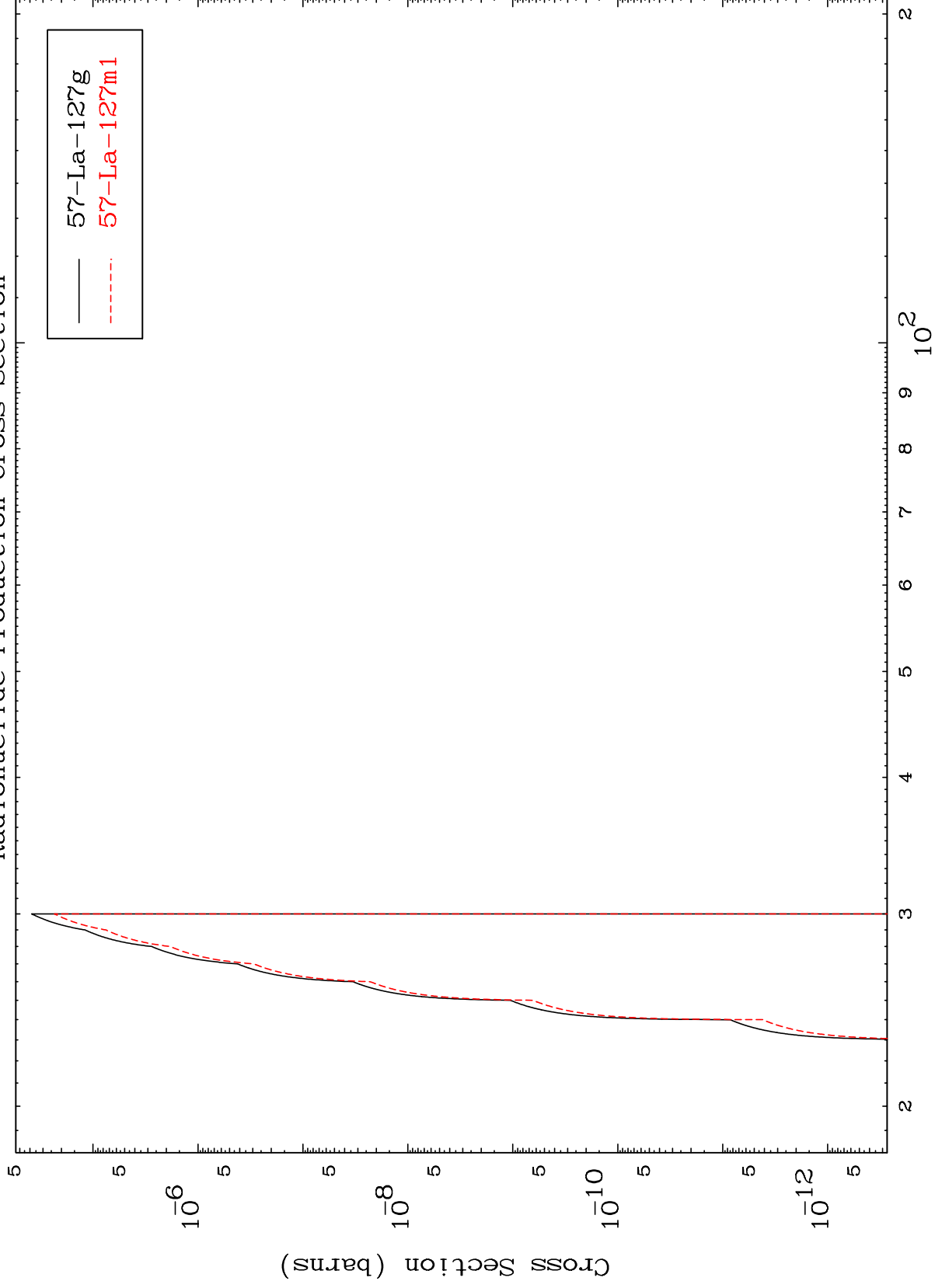
59-Pr-133

MAT 5901

(n,3n) α

59-Pr-133

Radionuclide Production Cross Section



144

Incident Energy (MeV)

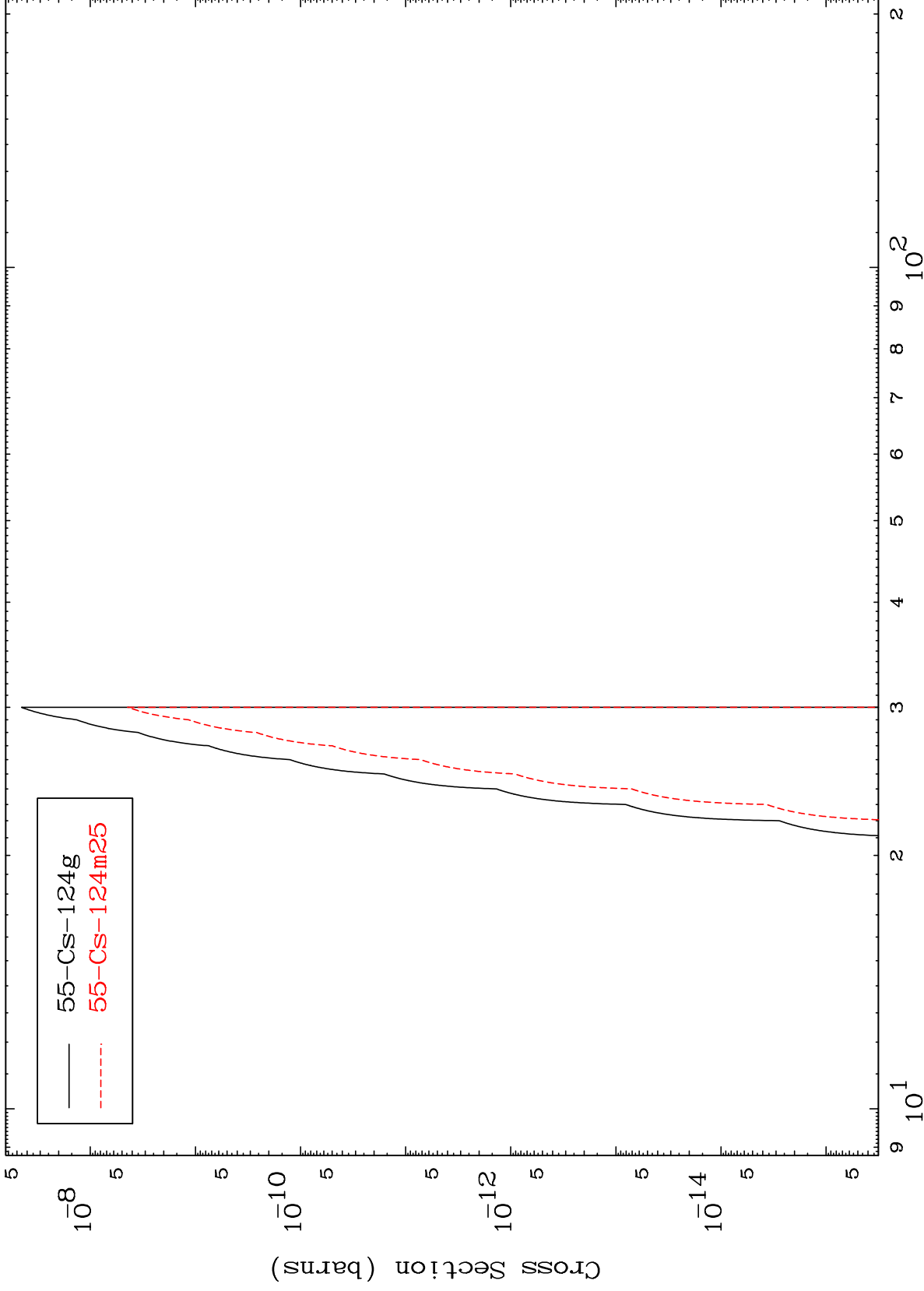
59-Pr-133

MAT 5901

(n,2n) 2α

59-Pr-133

Radionuclide Production Cross Section

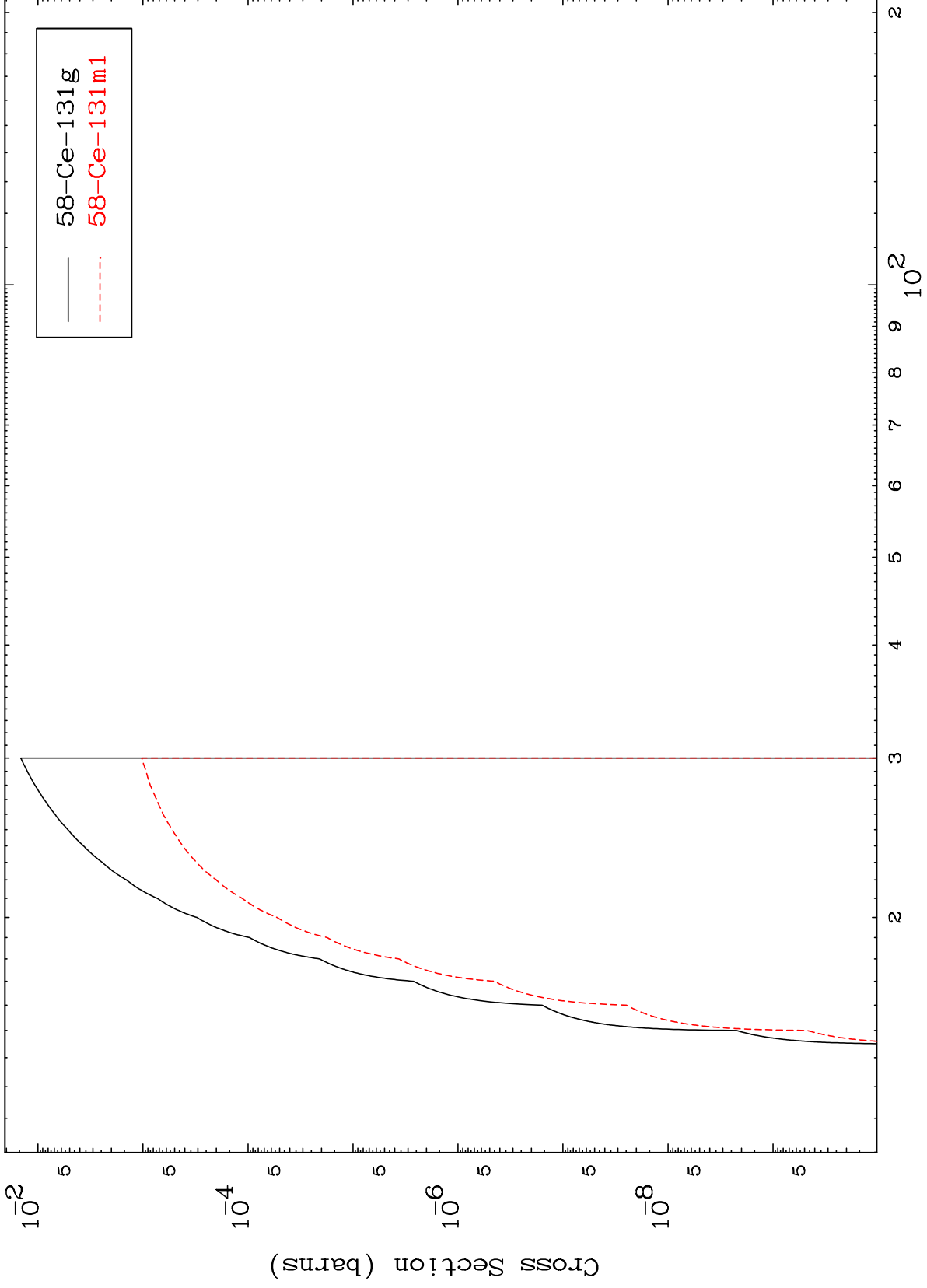


145

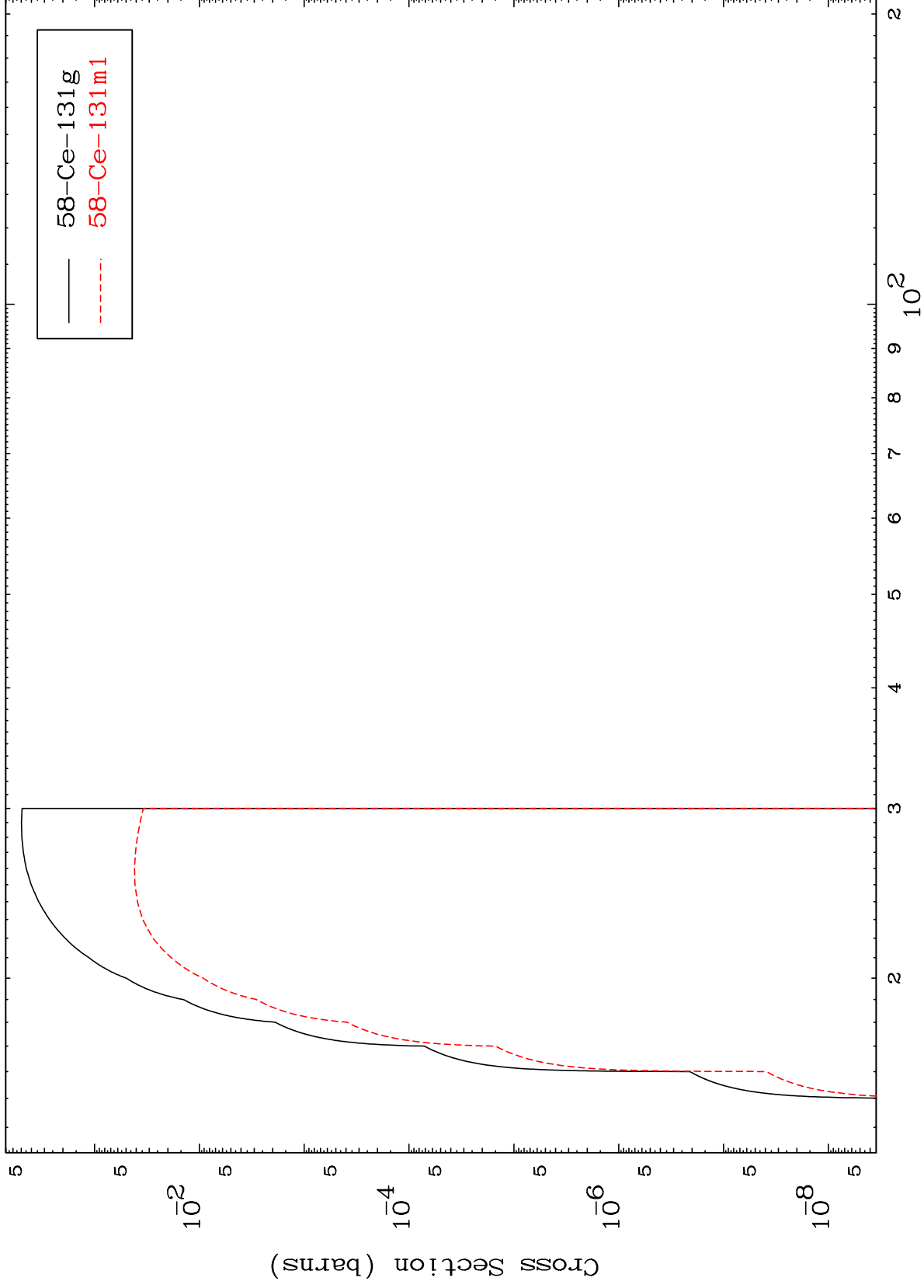
Incident Energy (MeV)

59-Pr-133

Radionuclide Production Cross Section



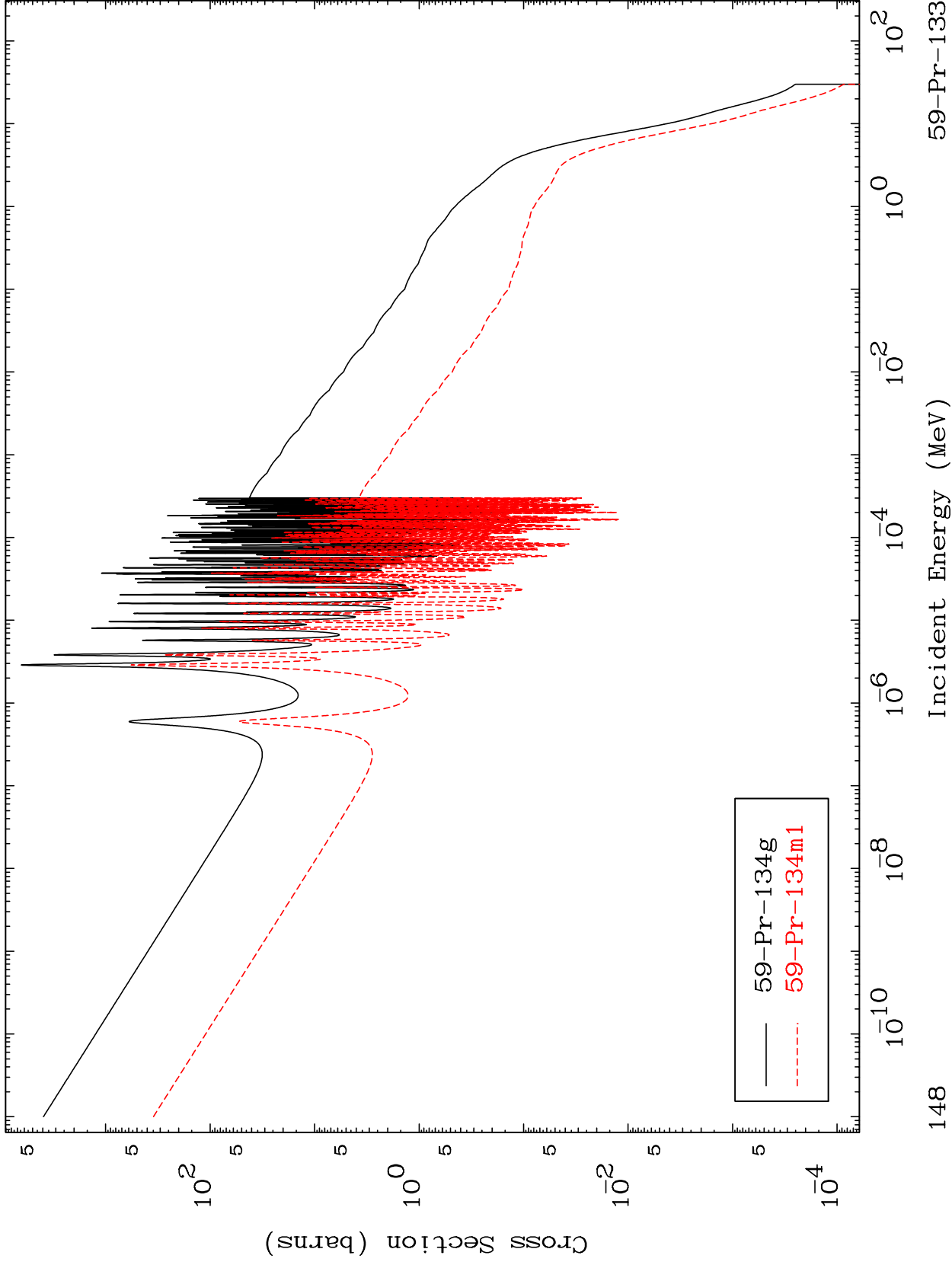
Radionuclide Production Cross Section



MAT 5901

59-Pr-133

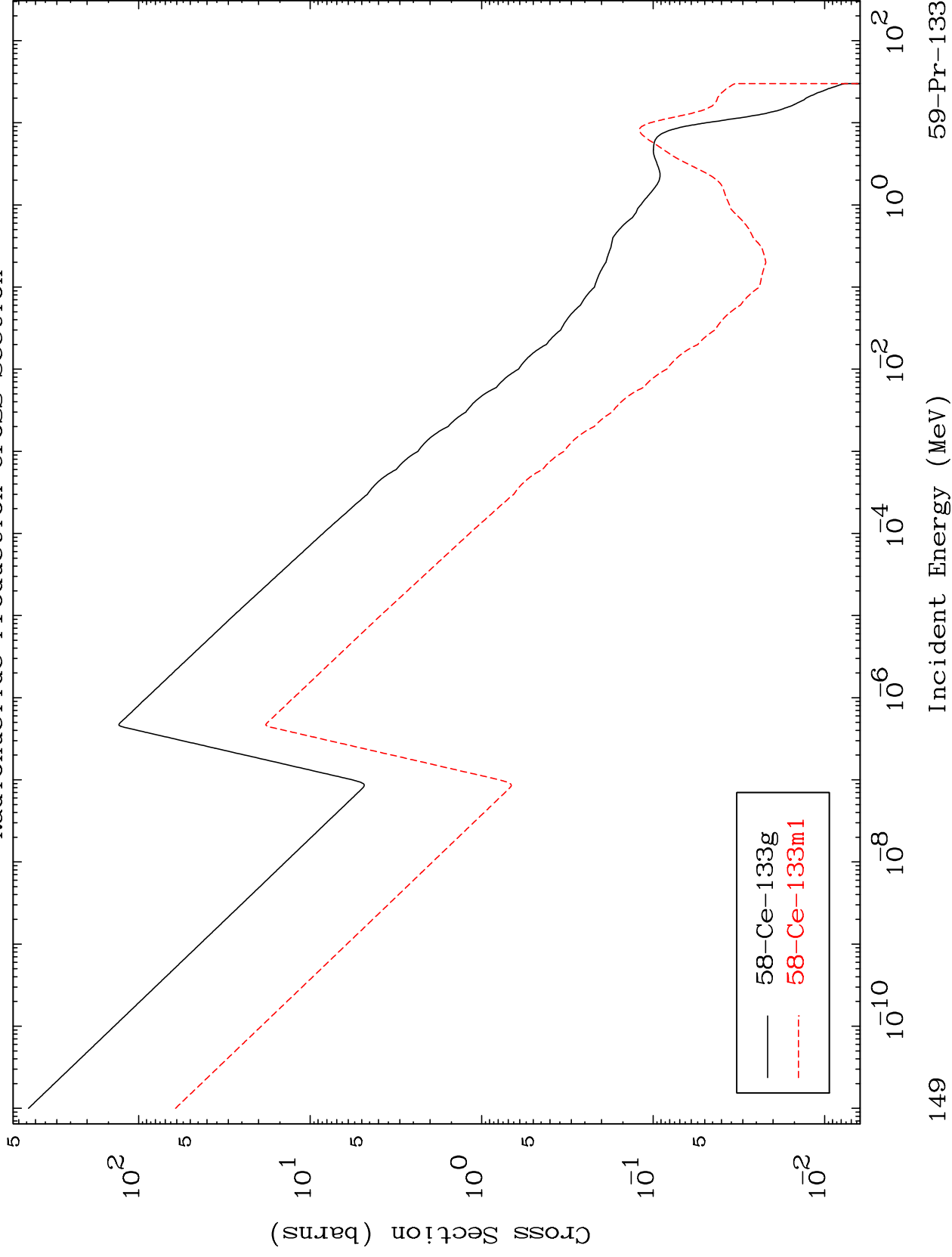
(n, γ)
Radionuclide Production Cross Section



MAT 5901

59-Pr-133

Radionuclide Production Cross Section

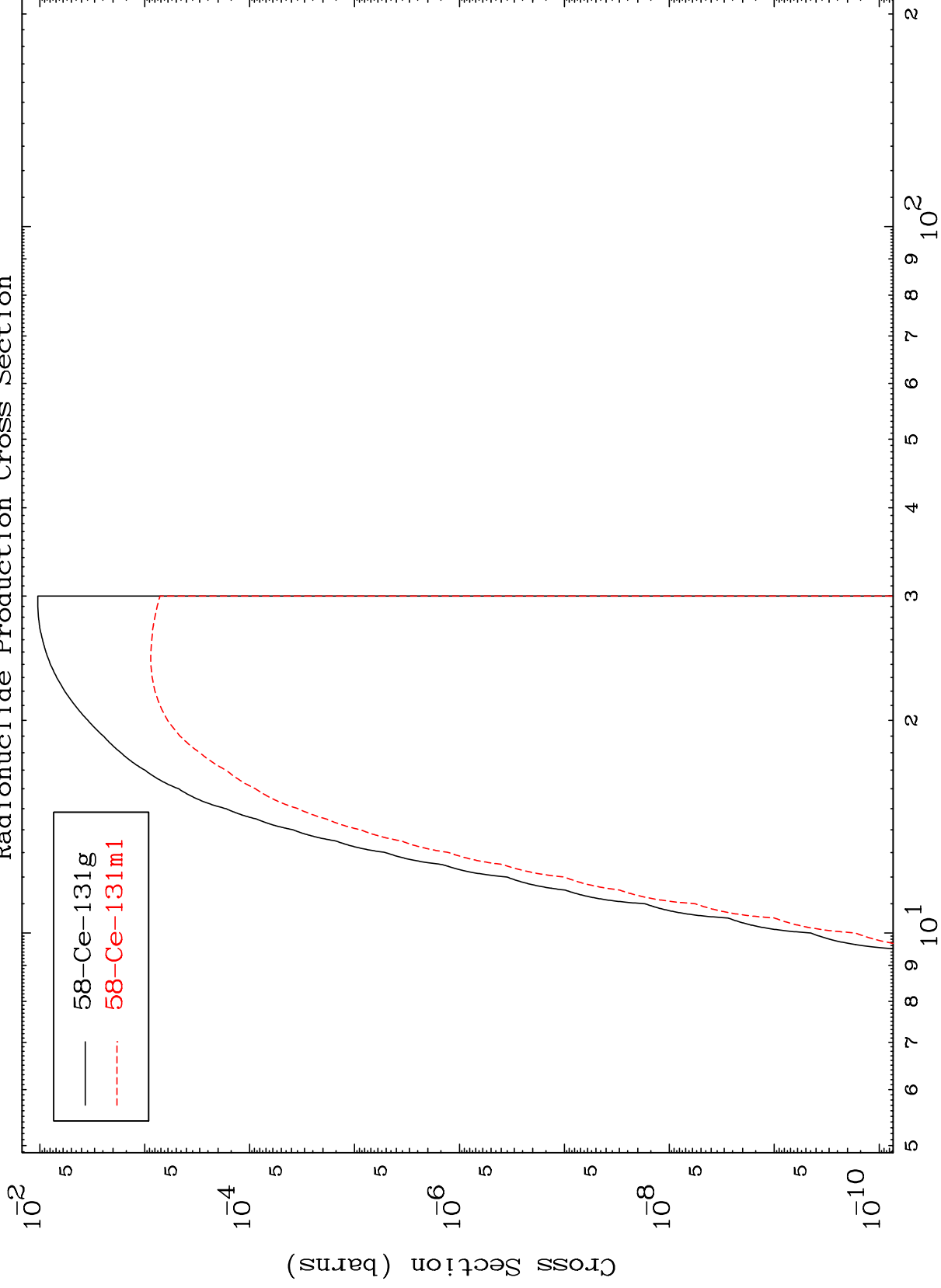


149

MAT 5901

59-Pr-133

Radionuclide Production Cross Section (n,t)



59-Pr-133

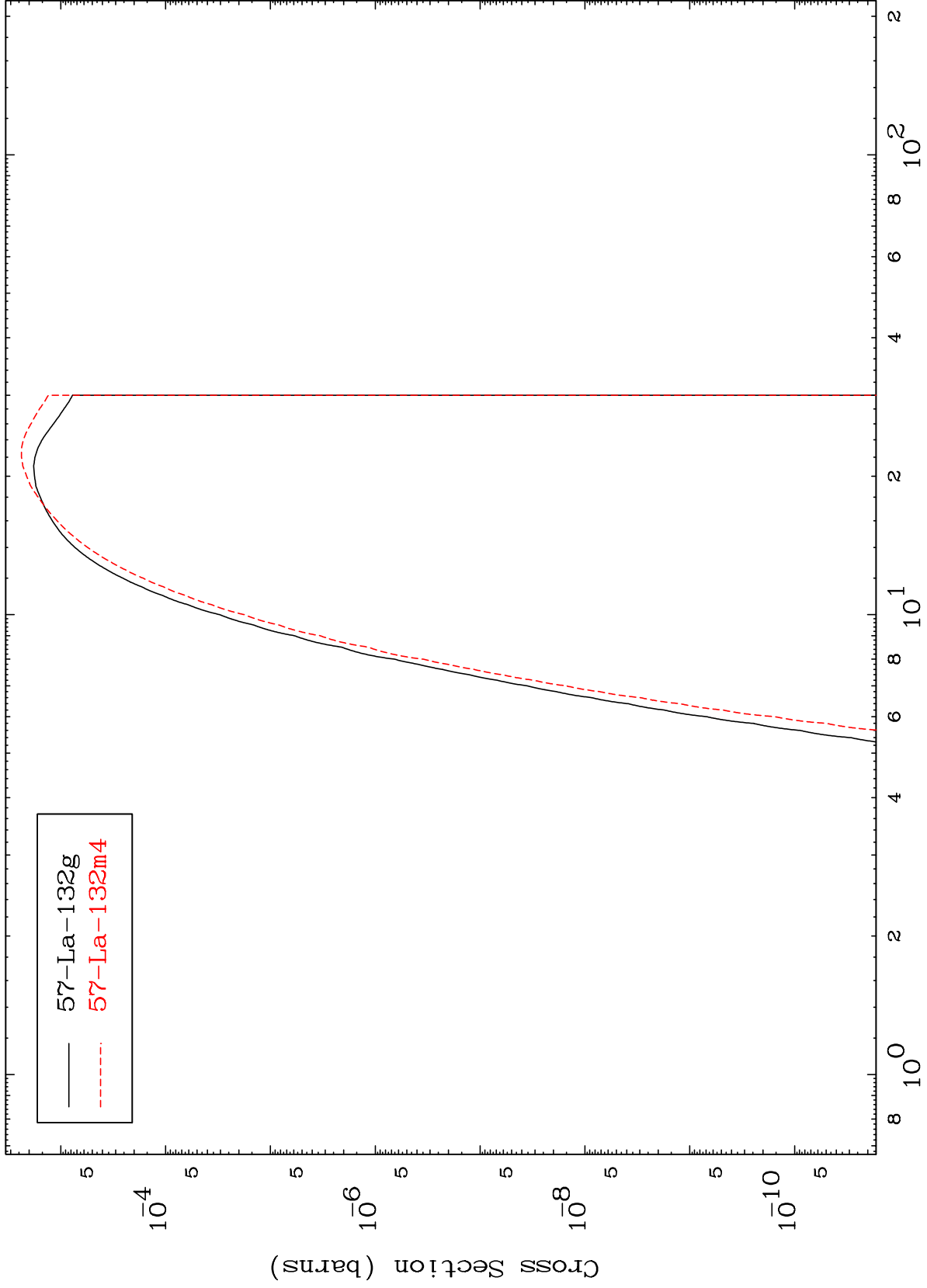
Incident Energy (MeV)

150

MAT 5901

59-Pr-133

(n,2p)
Radionuclide Production Cross Section



151

Incident Energy (MeV)

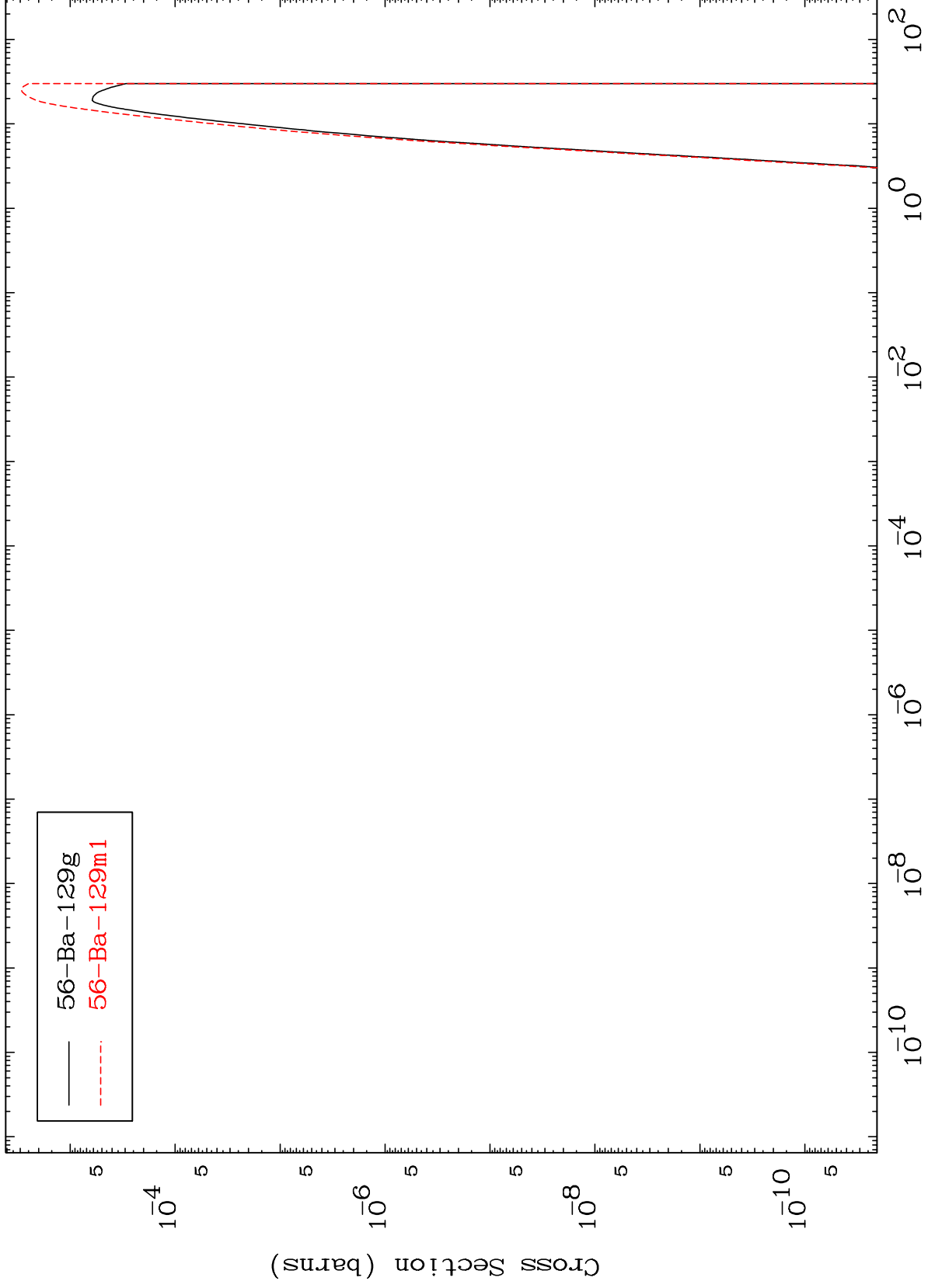
59-Pr-133

MAT 5901

(n,p) α

59-Pr-133

Radionuclide Production Cross Section



152

Incident Energy (MeV)

59-Pr-133