

Program EVALPLOT  
(Version 2015-2)

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:home.comcast.net/~redcullen1

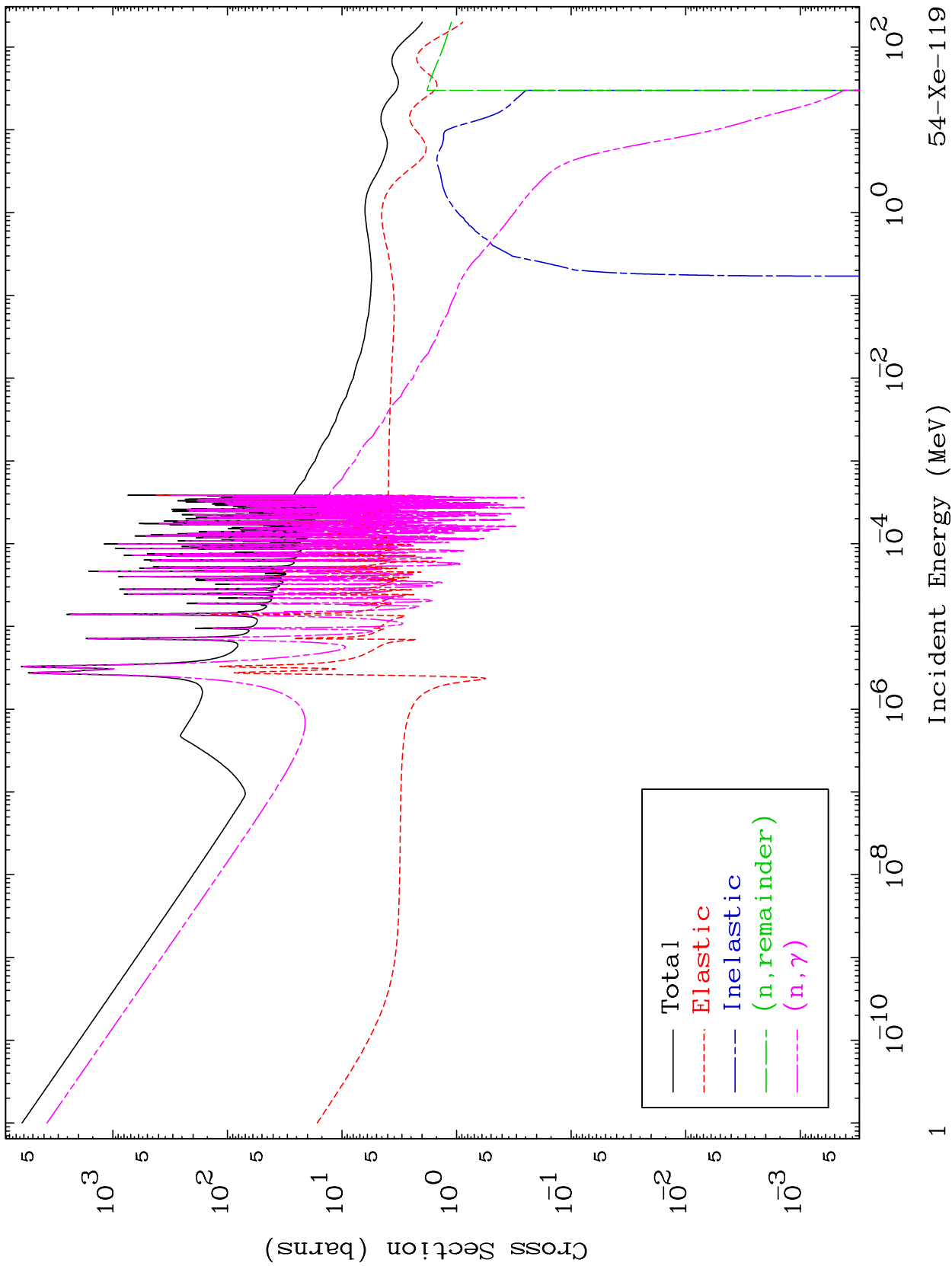
Press Mouse Button to Start

MAT 5410

Major

293 Kelvin Cross Sections

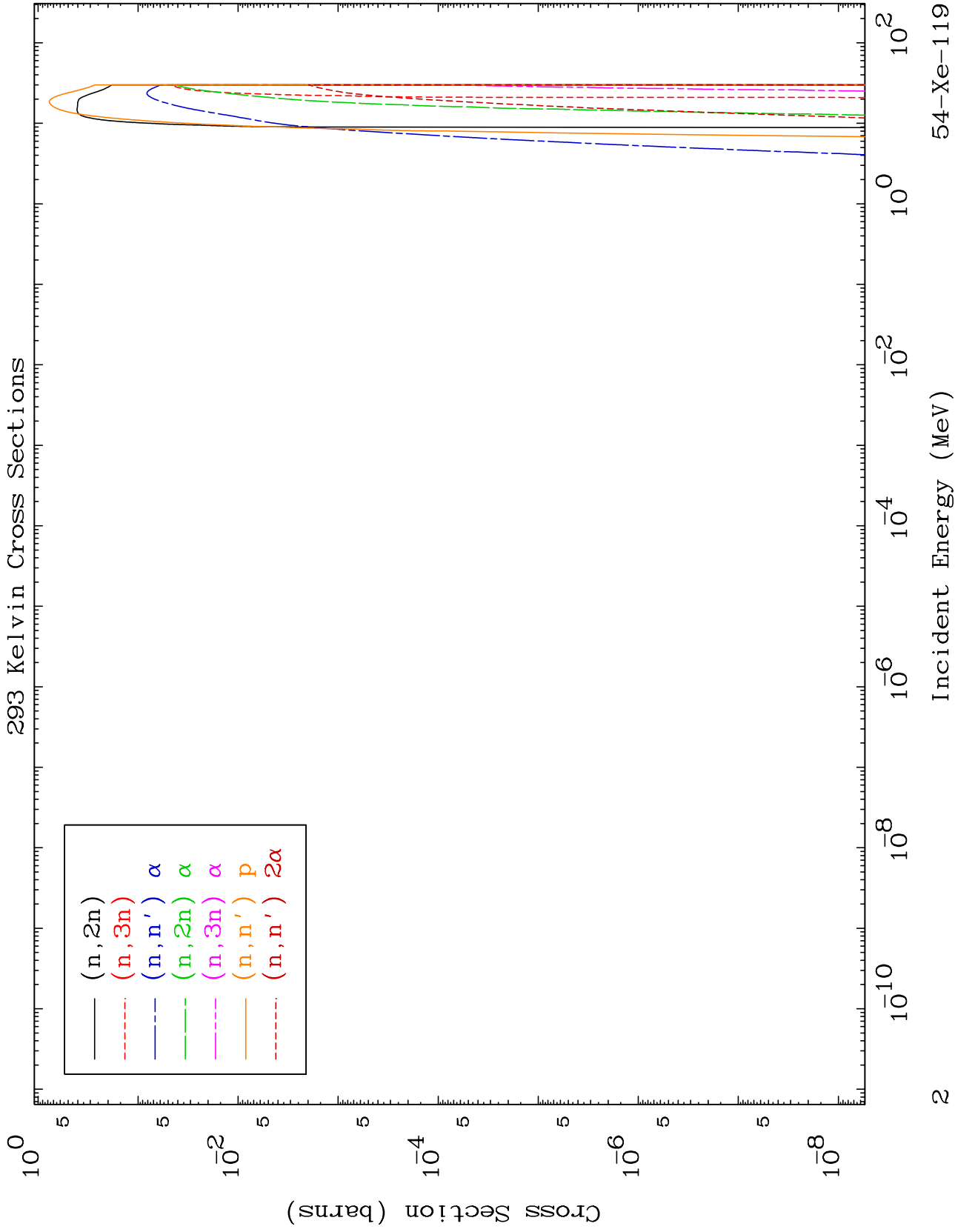
54-Xe-119



MAT 5410

Neutron Production  
293 Kelvin Cross Sections

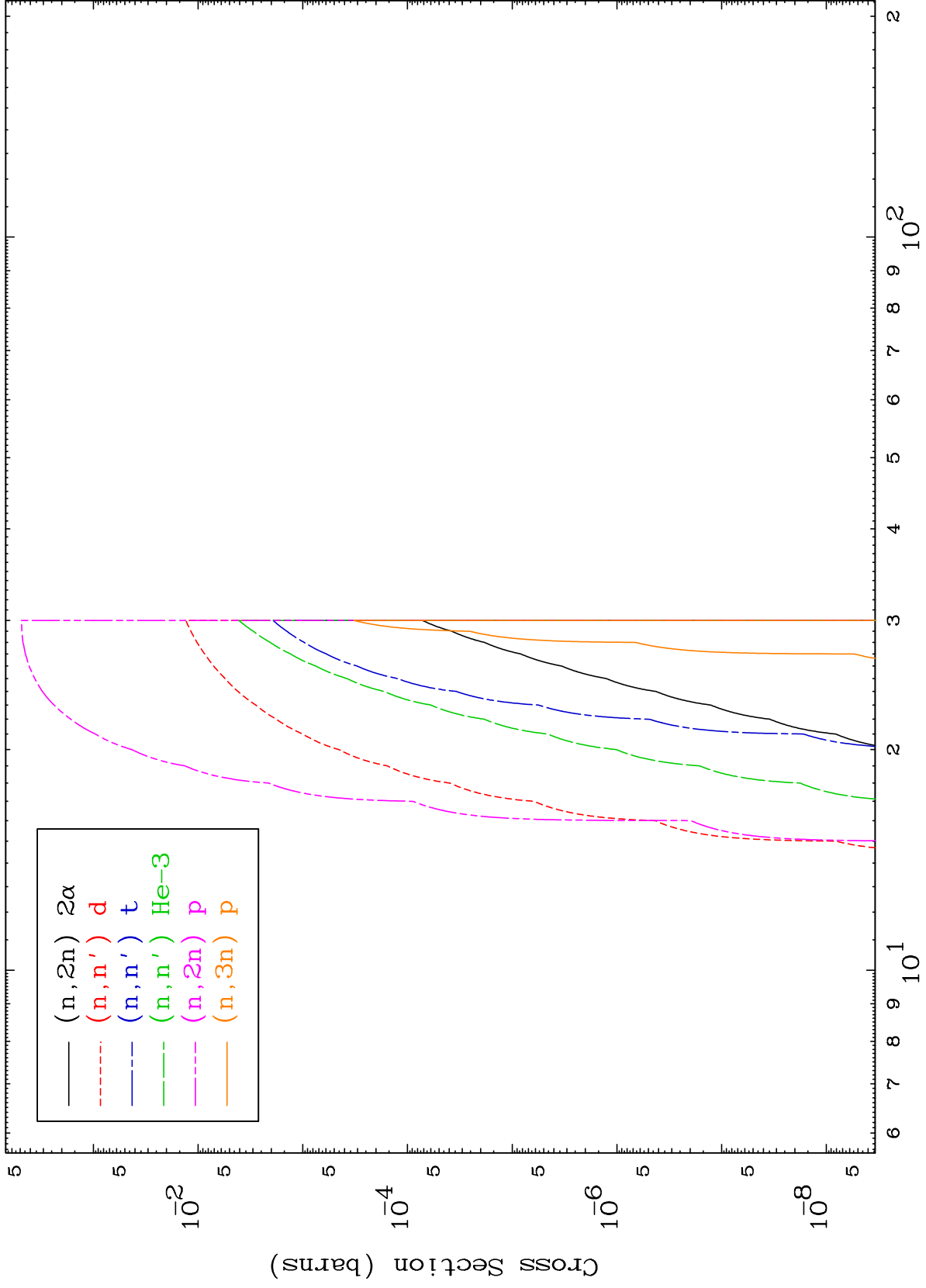
54-Xe-119



MAT 5410

Neutron Production  
293 Kelvin Cross Sections

54-Xe-119



3

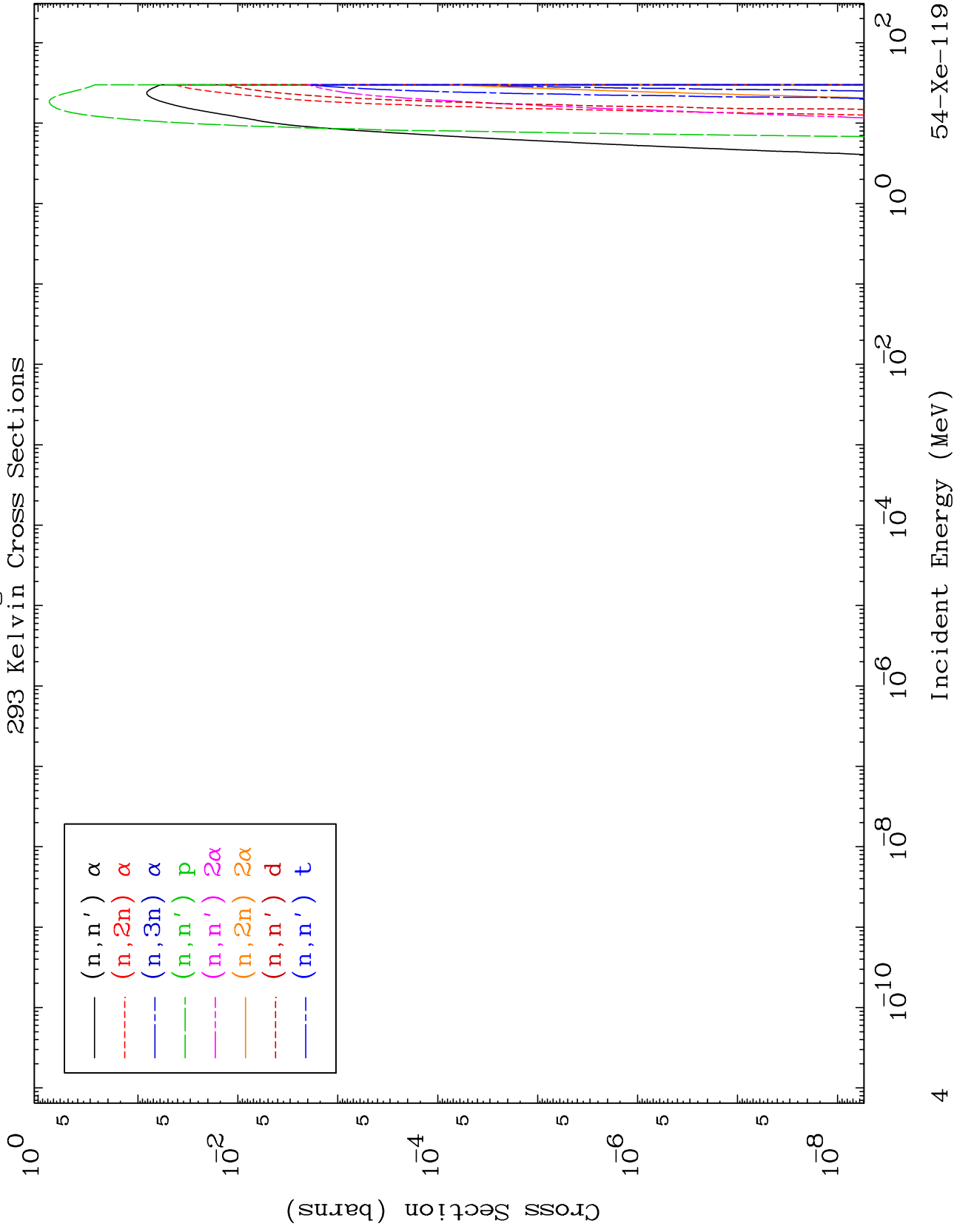
Incident Energy (MeV)

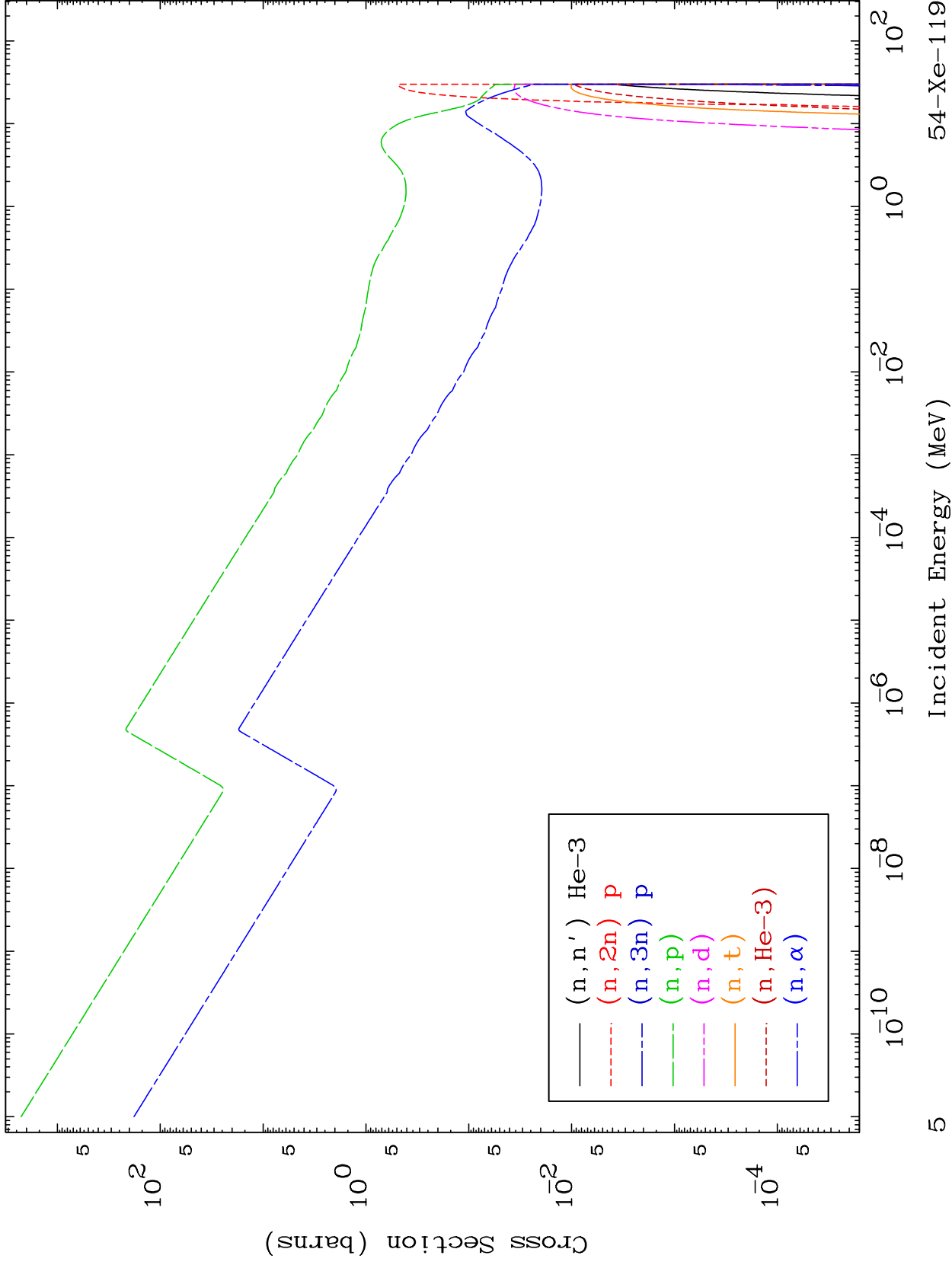
54-Xe-119

MAT 5410

Charged Particle  
293 Kelvin Cross Sections

54-Xe-119

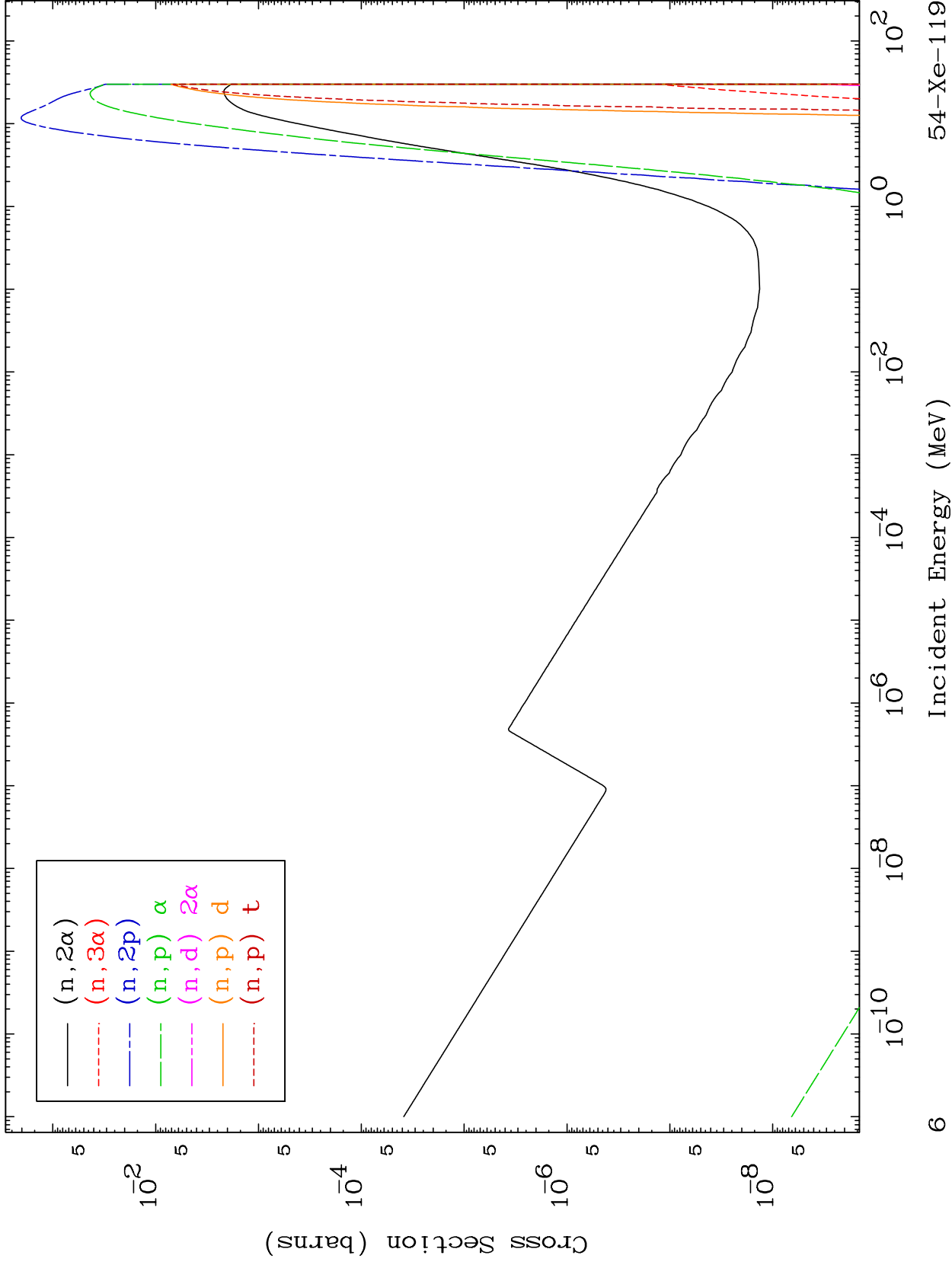




MAT 5410

Charged Particle  
293 Kelvin Cross Sections

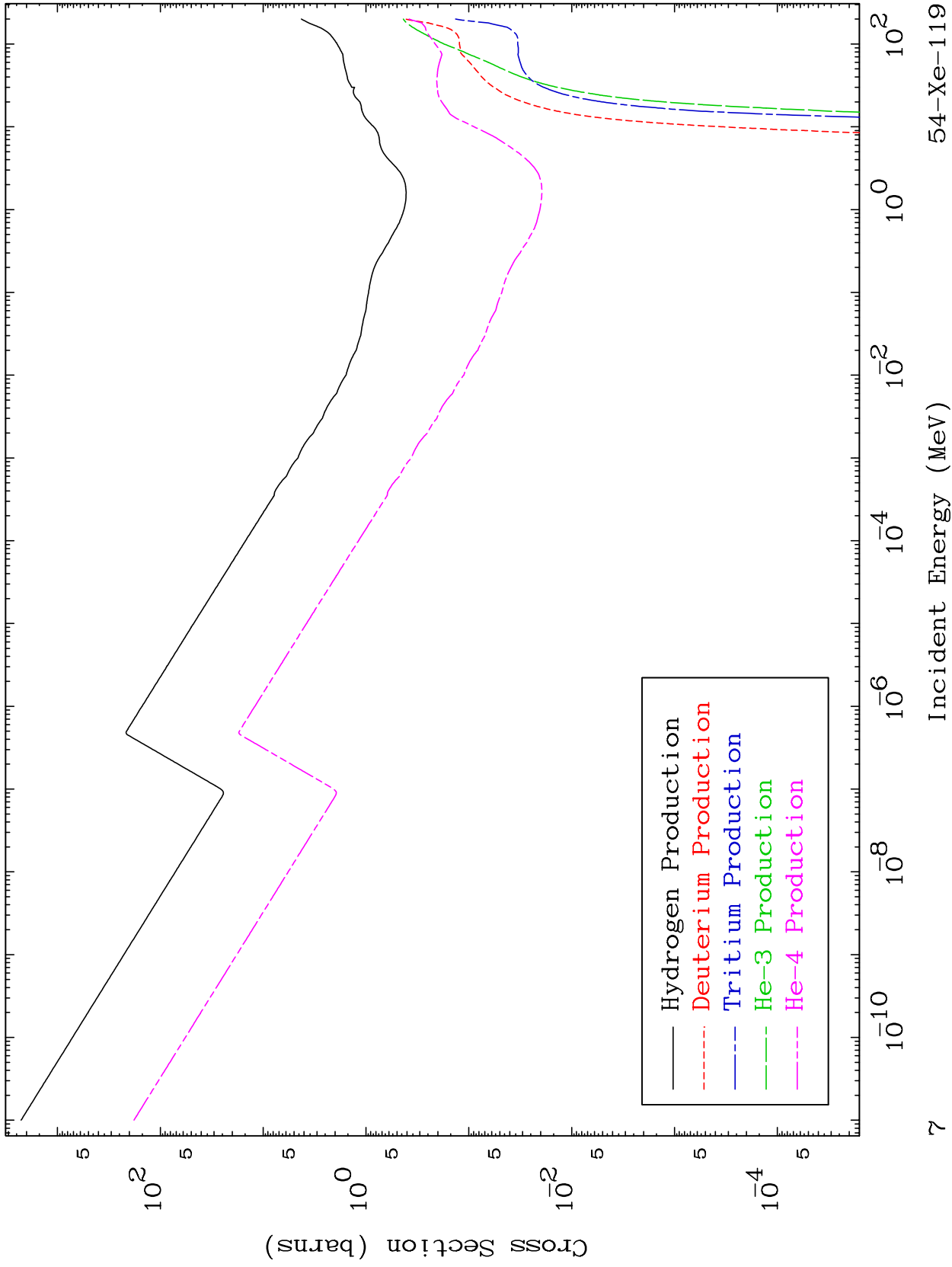
54-Xe-119



MAT 5410

Particle Production  
293 Kelvin Cross Sections

54-Xe-119

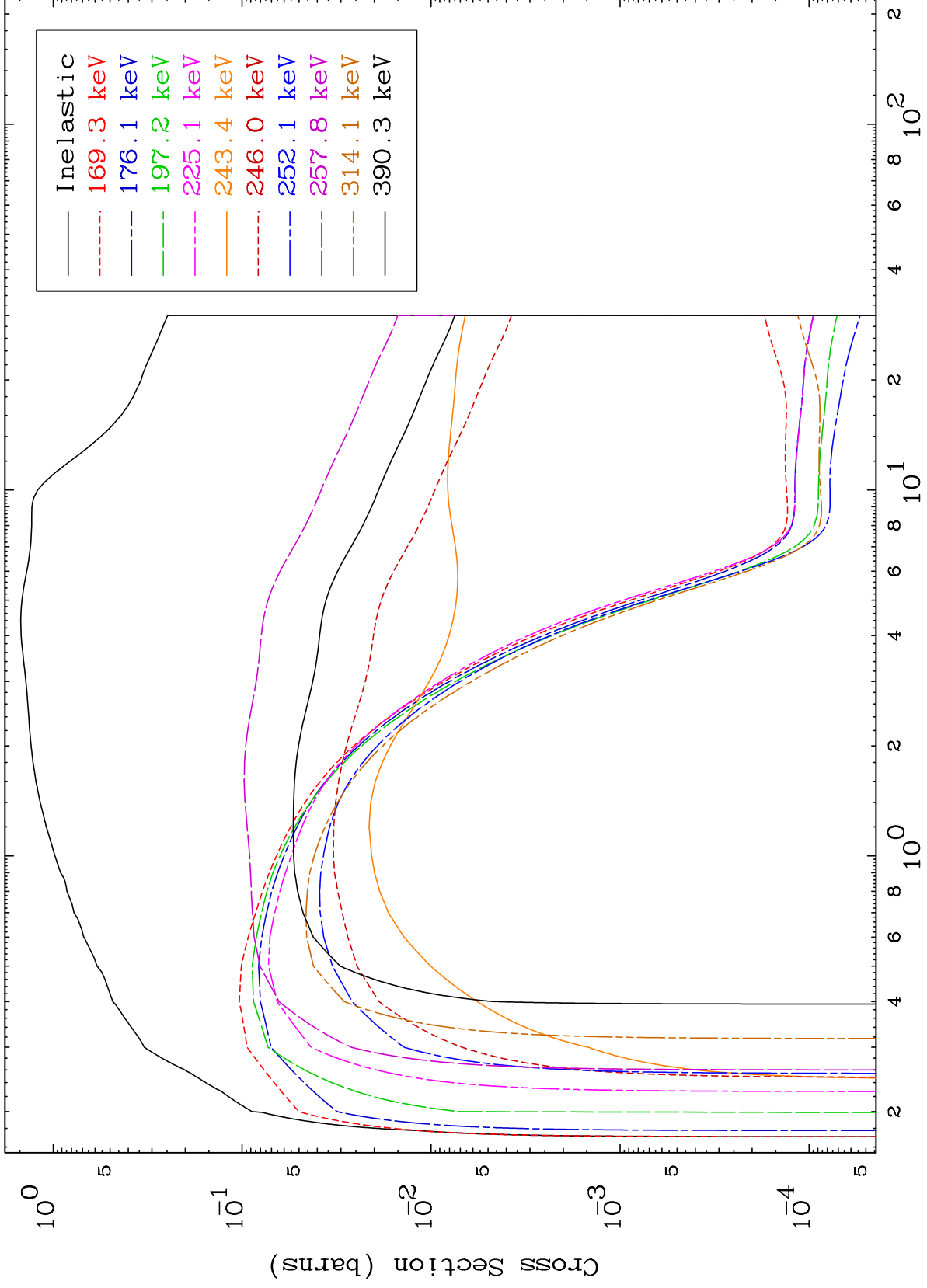




MAT 5410

(n,n') Level  
293 Kelvin Cross Sections

54-Xe-119



8

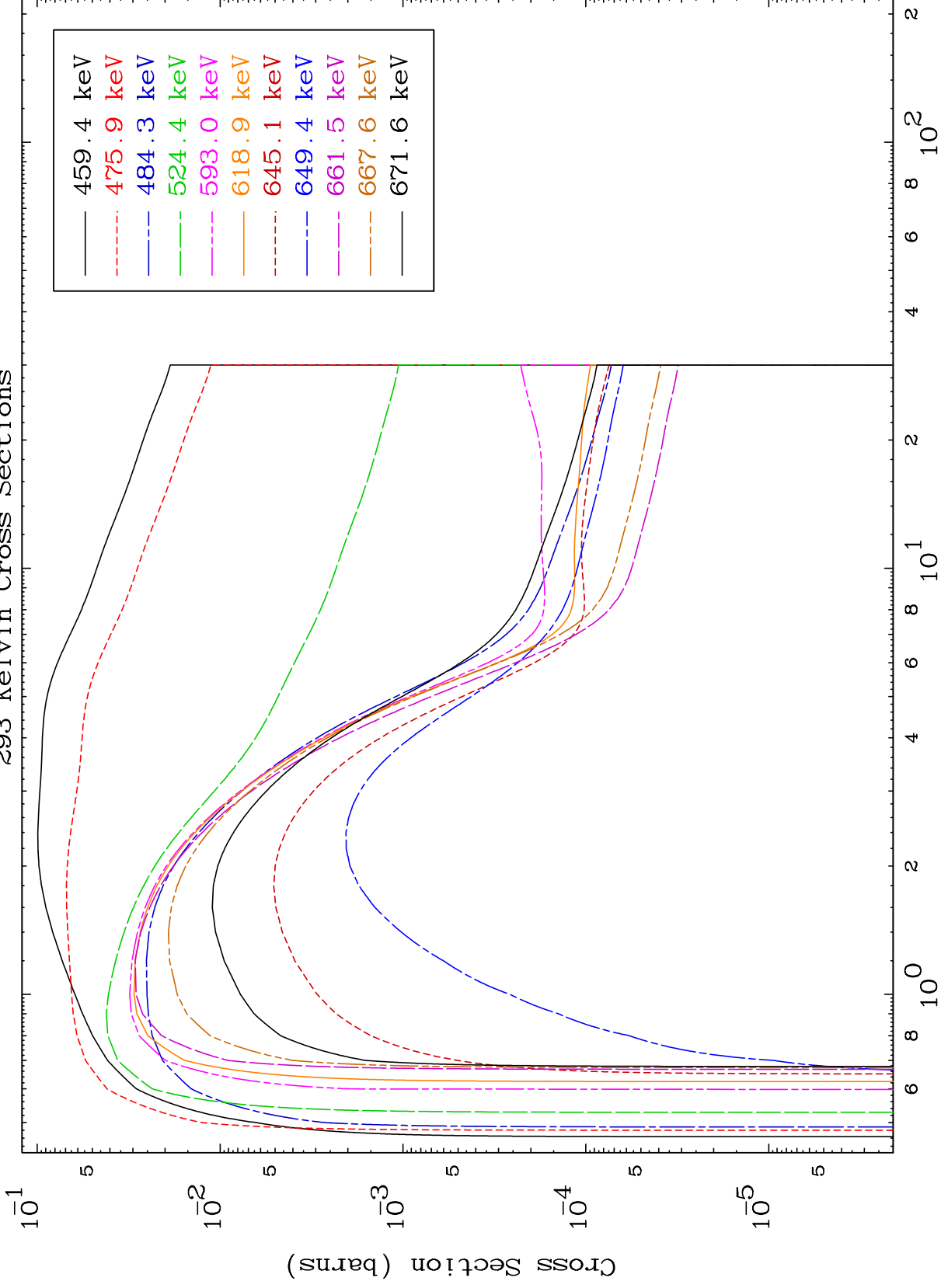
Incident Energy (MeV)

54-Xe-119

MAT 5410

(n,n') Level  
293 Kelvin Cross Sections

54-Xe-119



9

Incident Energy (MeV)

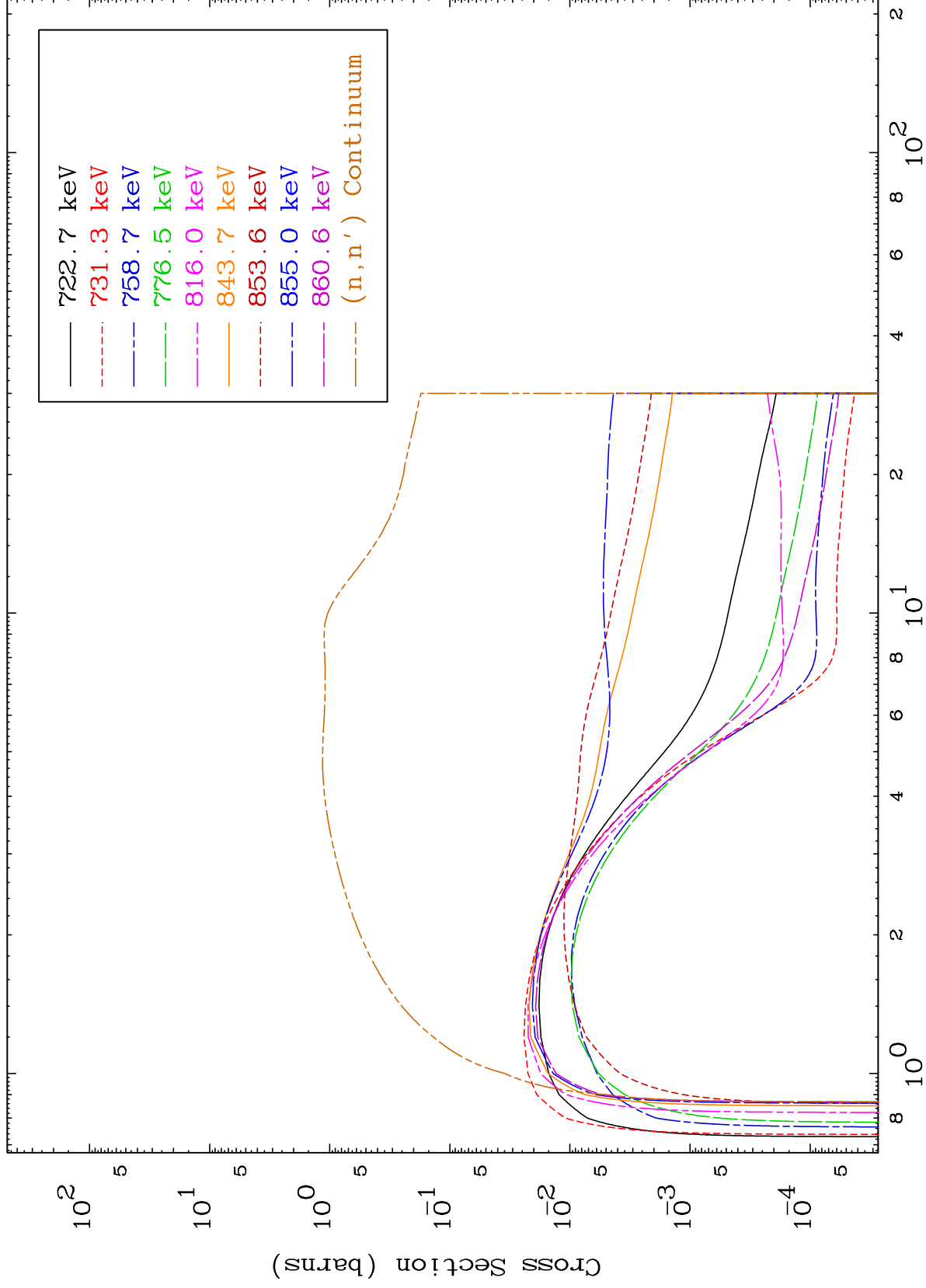
54-Xe-119

MAT 5410

(n,n') Level

54-Xe-119

293 Kelvin Cross Sections



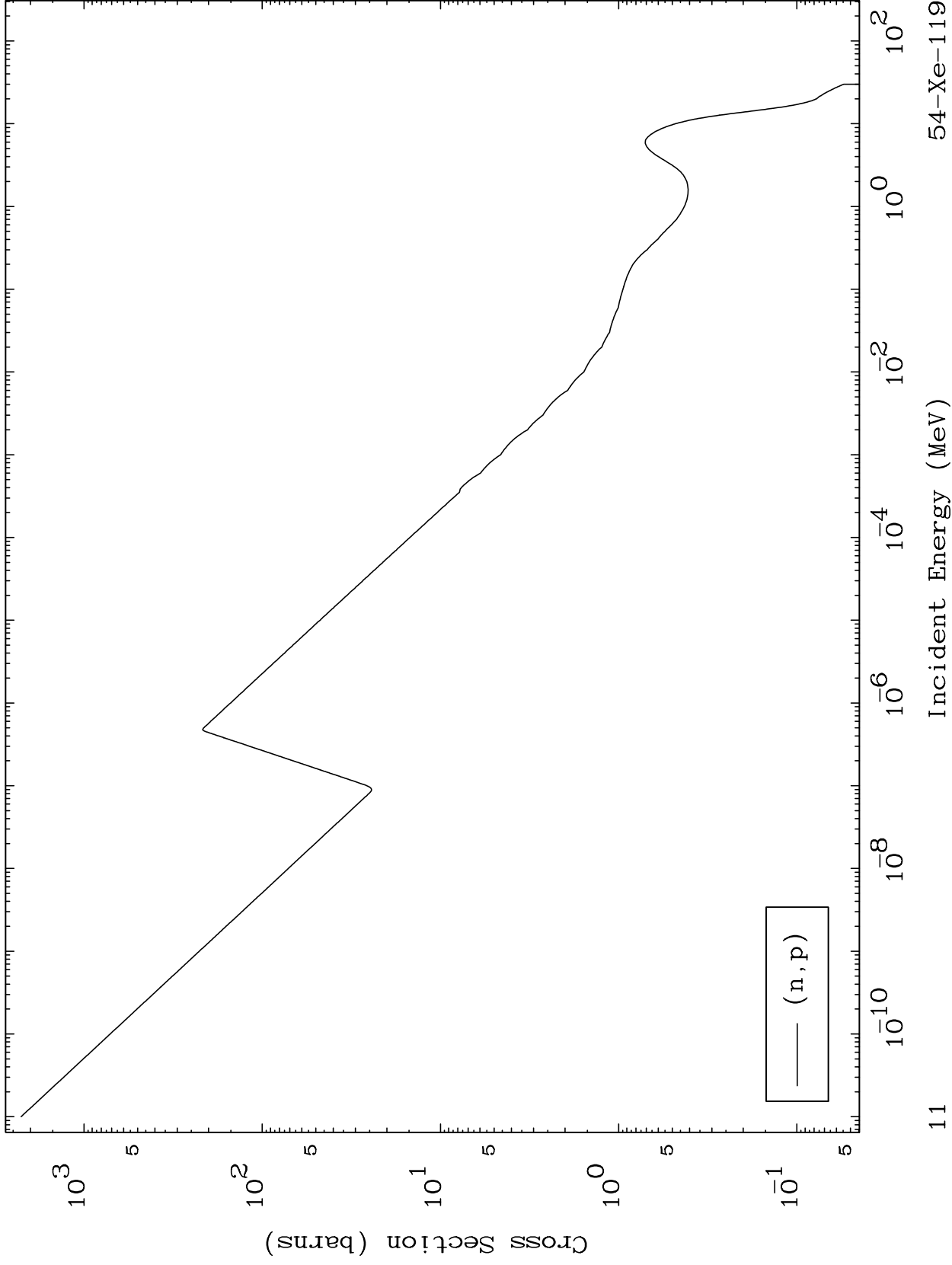
Incident Energy (MeV)

54-Xe-119

MAT 5410

(n,p) Levels  
293 Kelvin Cross Sections

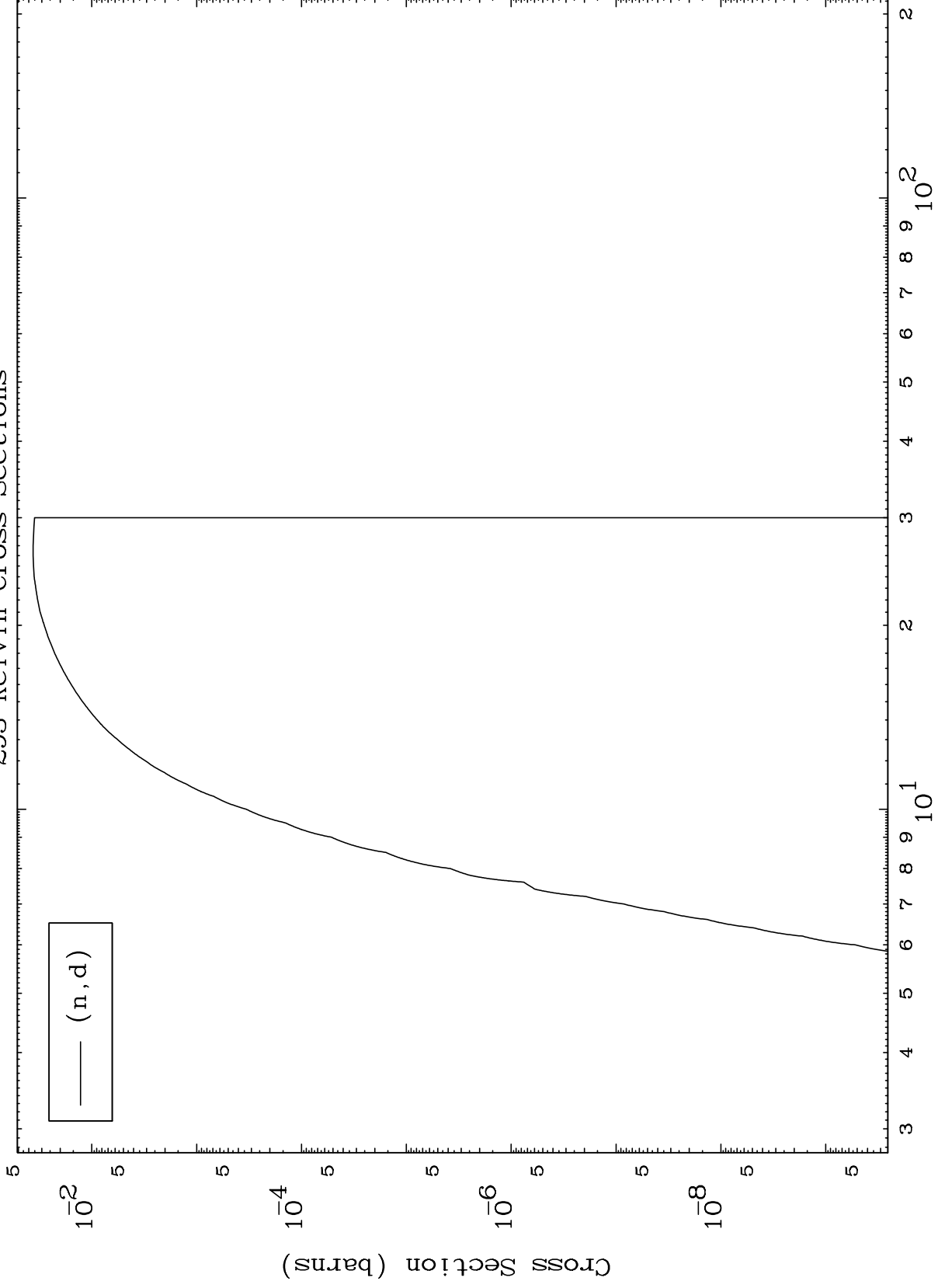
54-Xe-119



MAT 5410

(n,d) Levels  
293 Kelvin Cross Sections

54-Xe-119



12

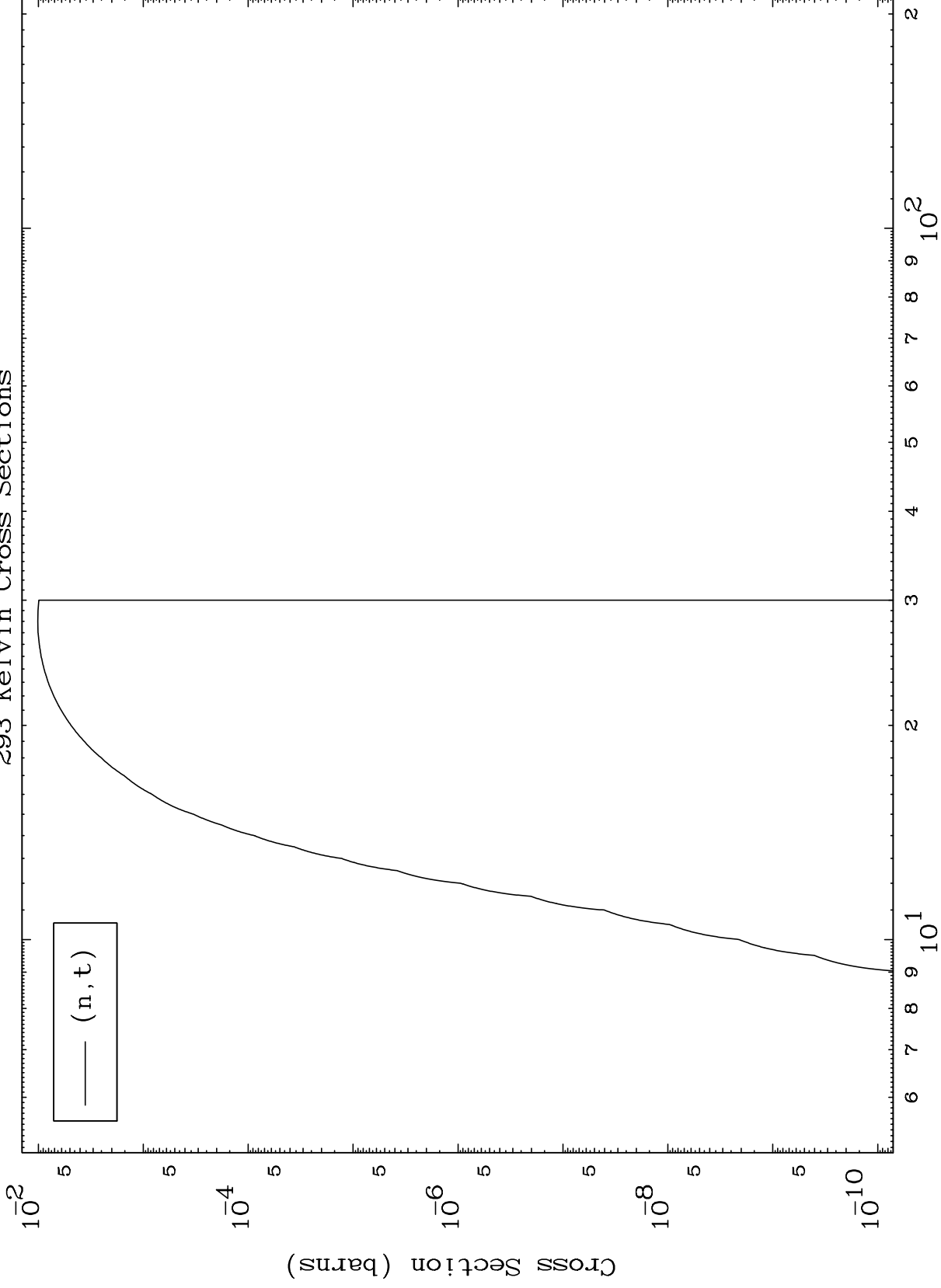
Incident Energy (MeV)

54-Xe-119

MAT 5410

(n,t) Levels  
293 Kelvin Cross Sections

54-Xe-119



13

Incident Energy (MeV)

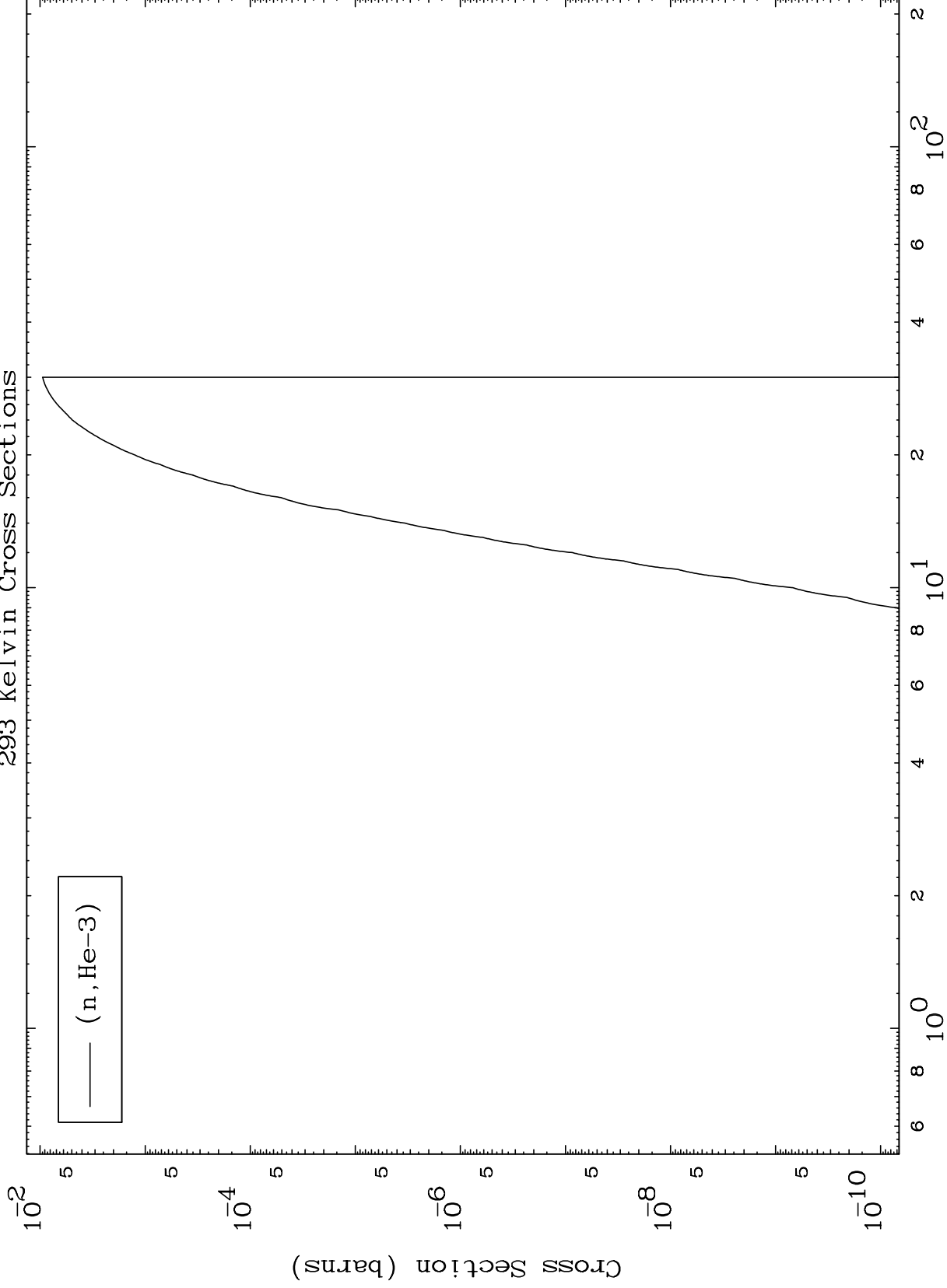
54-Xe-119

MAT 5410

(n,He3) Levels

54-Xe-119

293 Kelvin Cross Sections



14

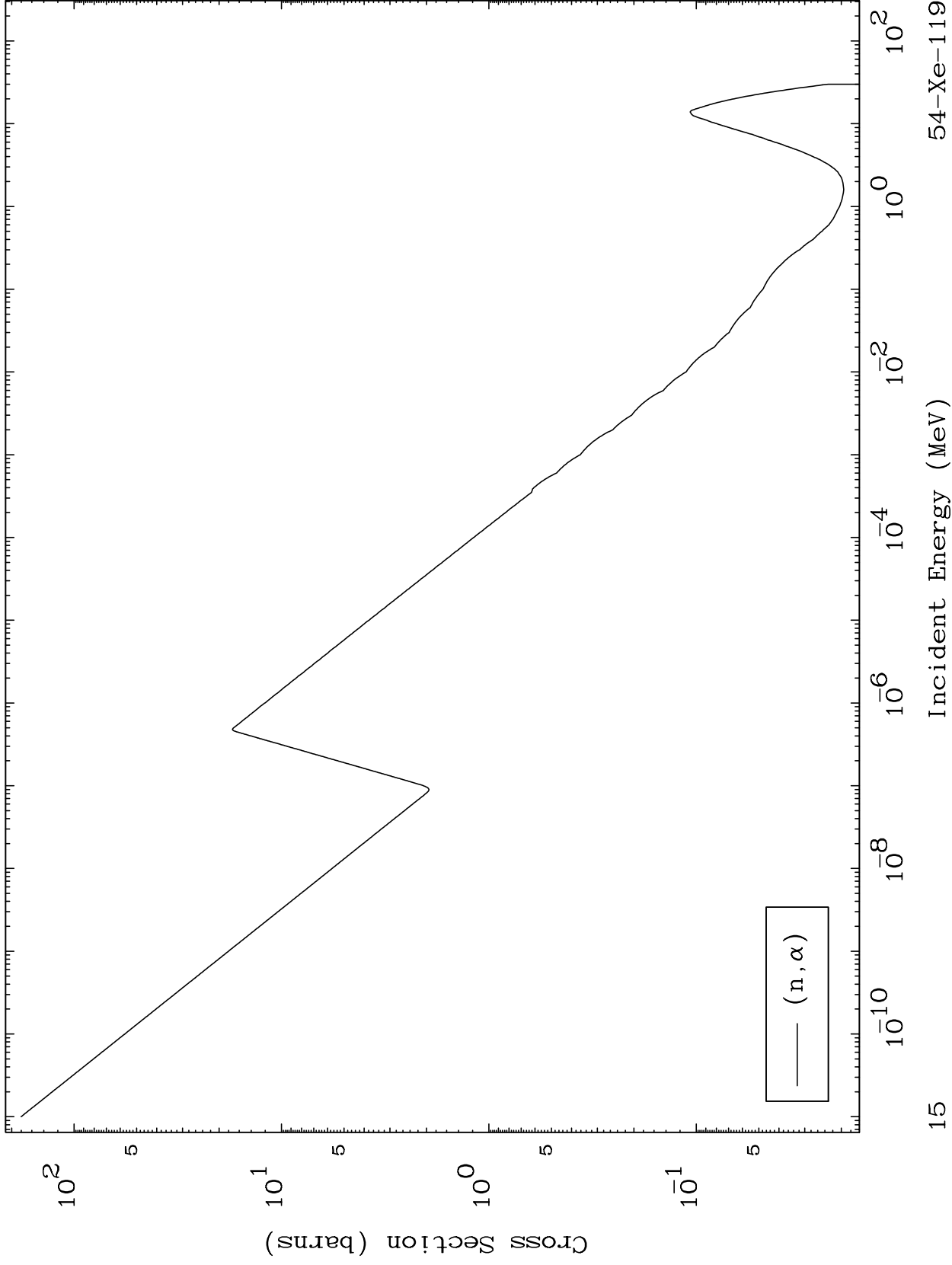
Incident Energy (MeV)

54-Xe-119

MAT 5410

(n,α) Levels  
293 Kelvin Cross Sections

54-Xe-119

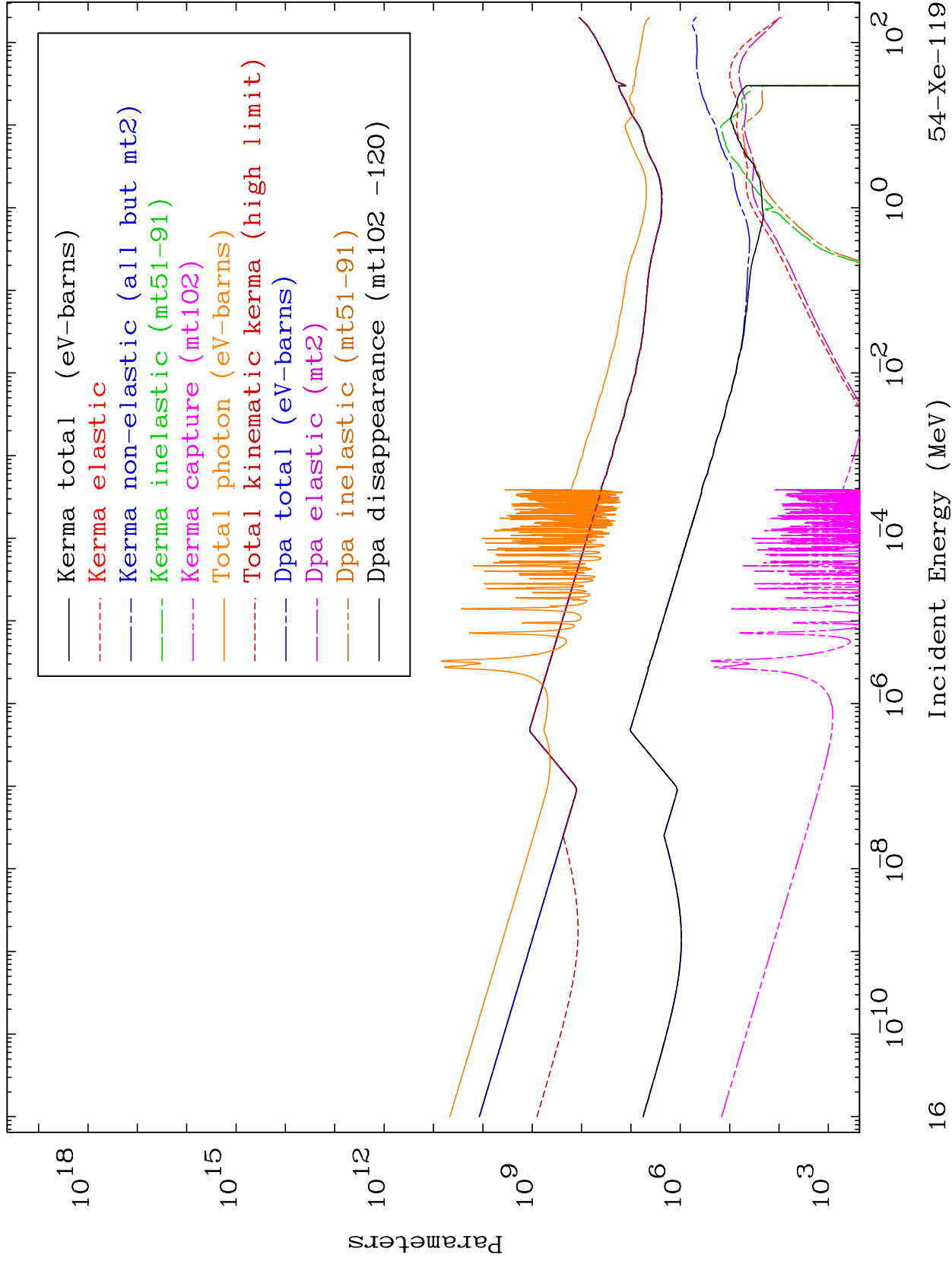


15

Incident Energy (MeV)

54-Xe-119

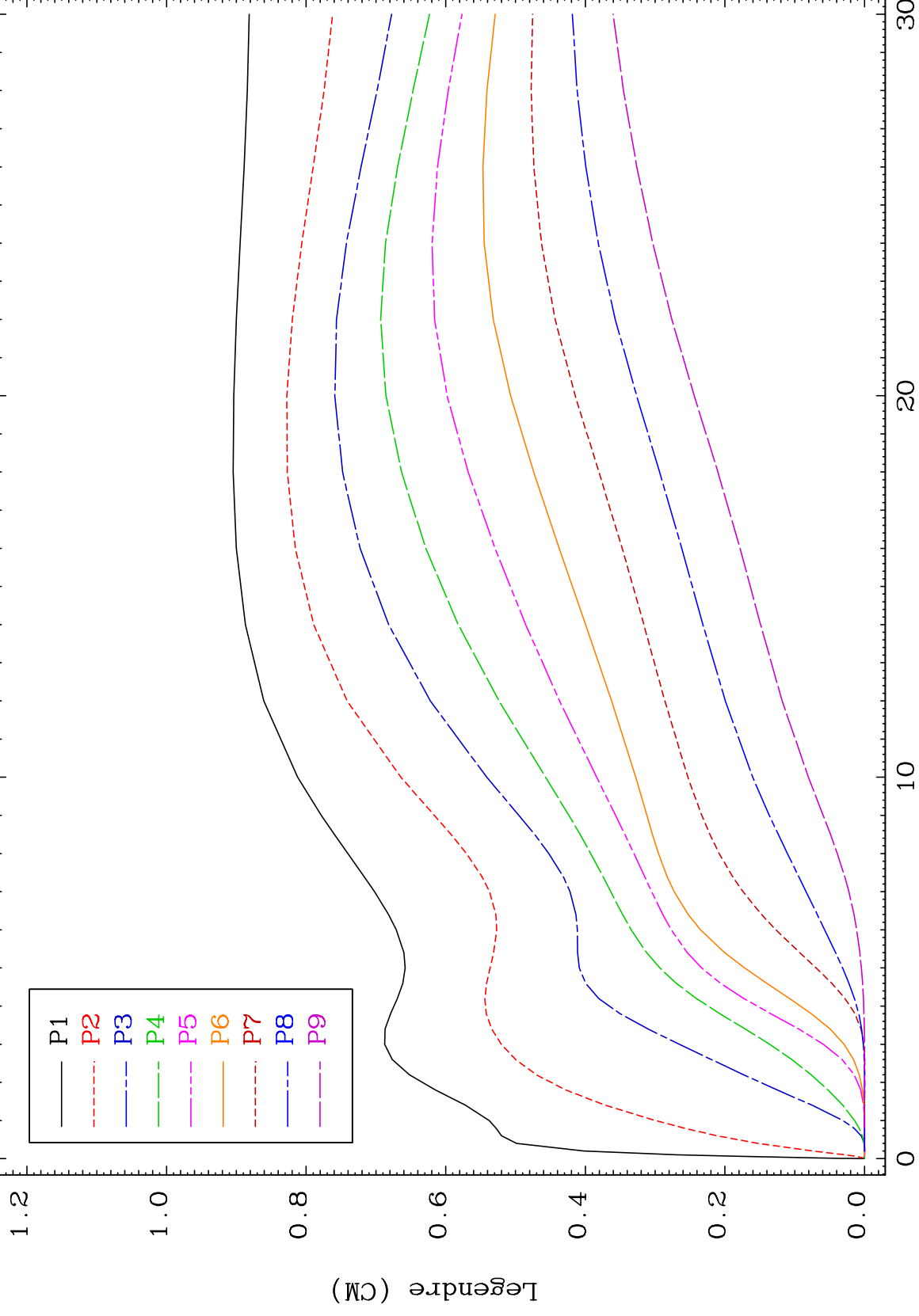




MAT 5410

Elastic Legendre Coefficients

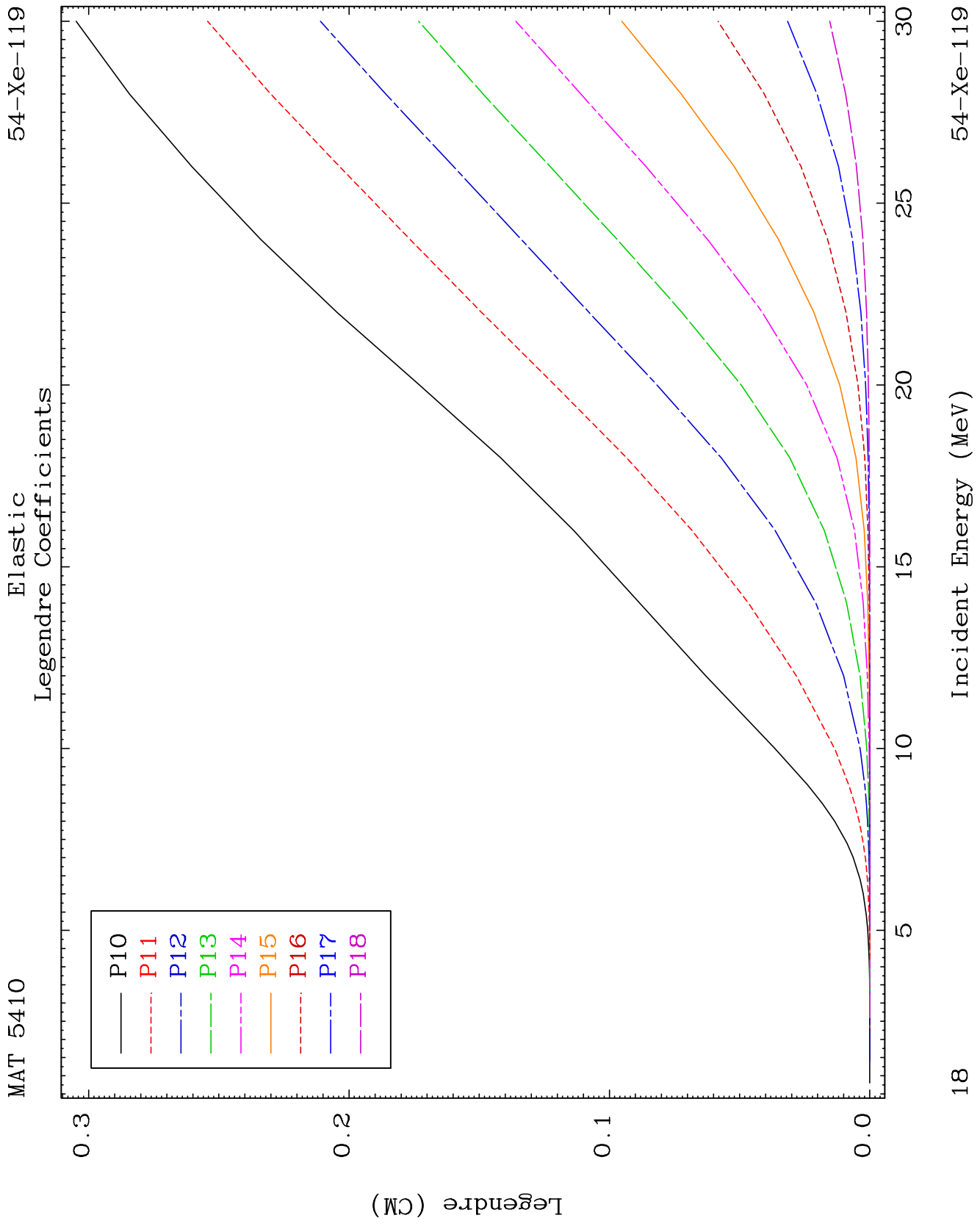
54-Xe-119



17

Incident Energy (MeV)

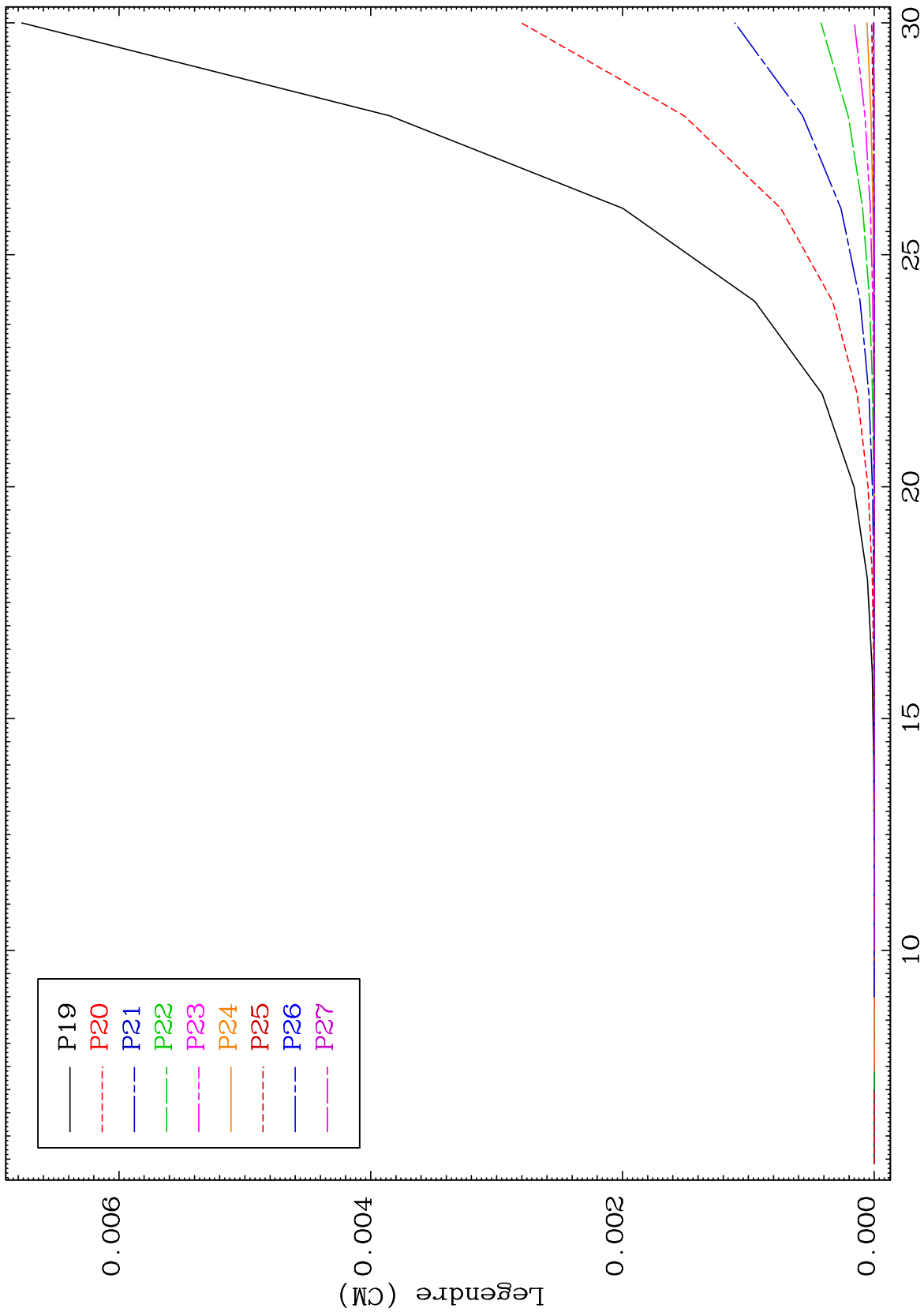
54-Xe-119



MAT 5410

Elastic Legendre Coefficients

54-Xe-119



19

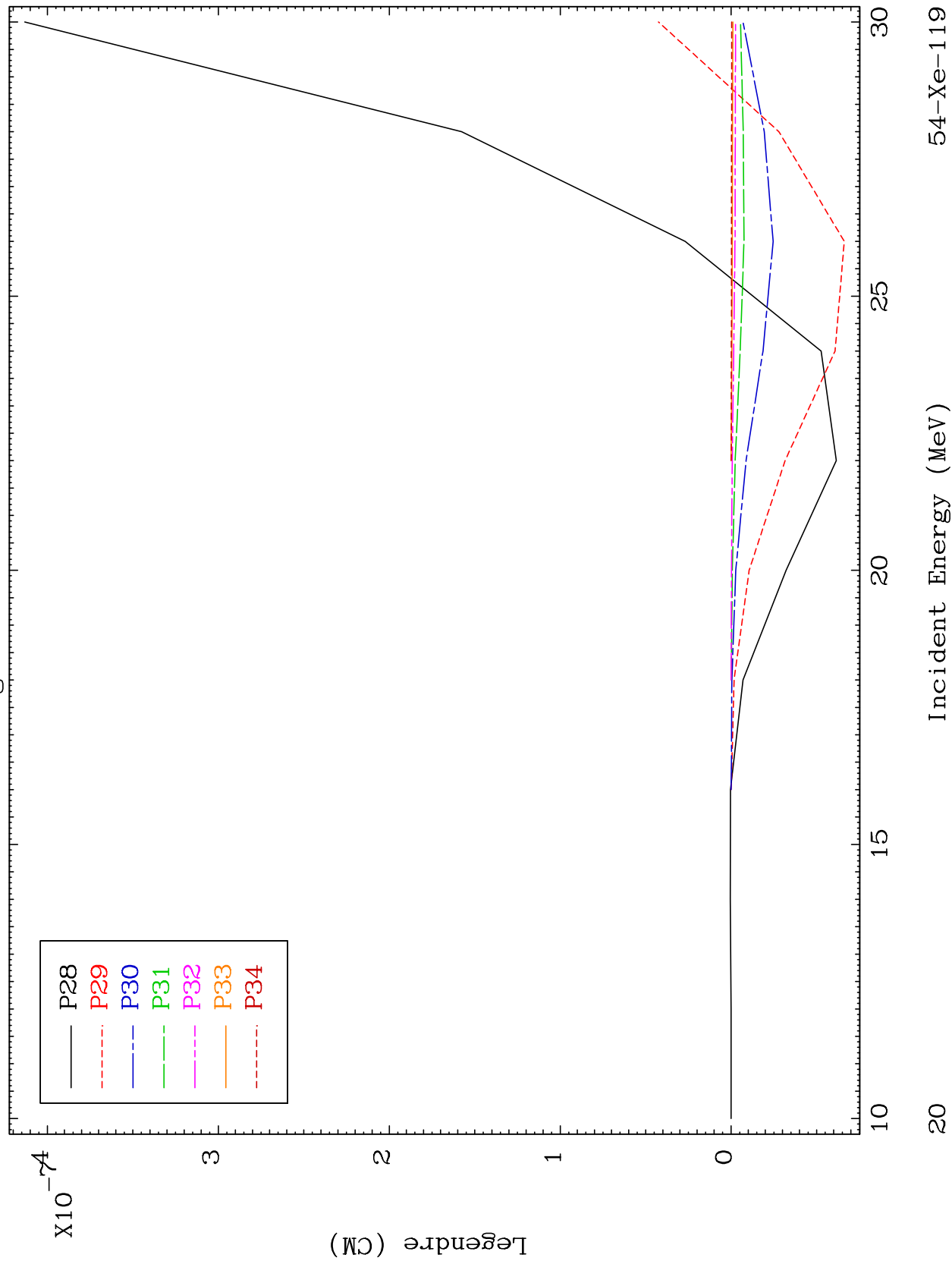
Incident Energy (MeV)

54-Xe-119

MAT 5410

Elastic Legendre Coefficients

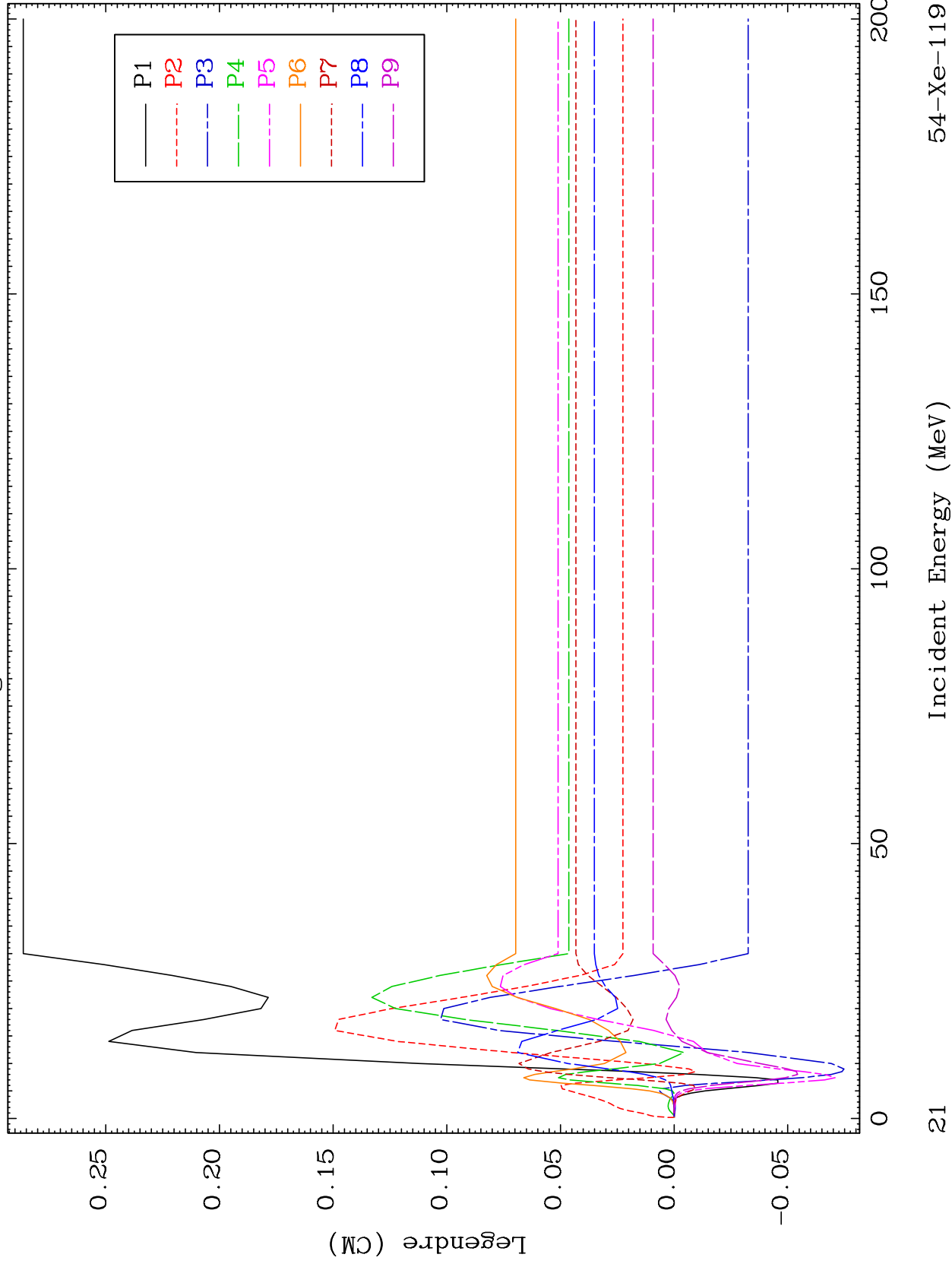
54-Xe-119



MAT 5410

169.3 keV (n,n') Level  
Legendre Coefficients

54-Xe-119

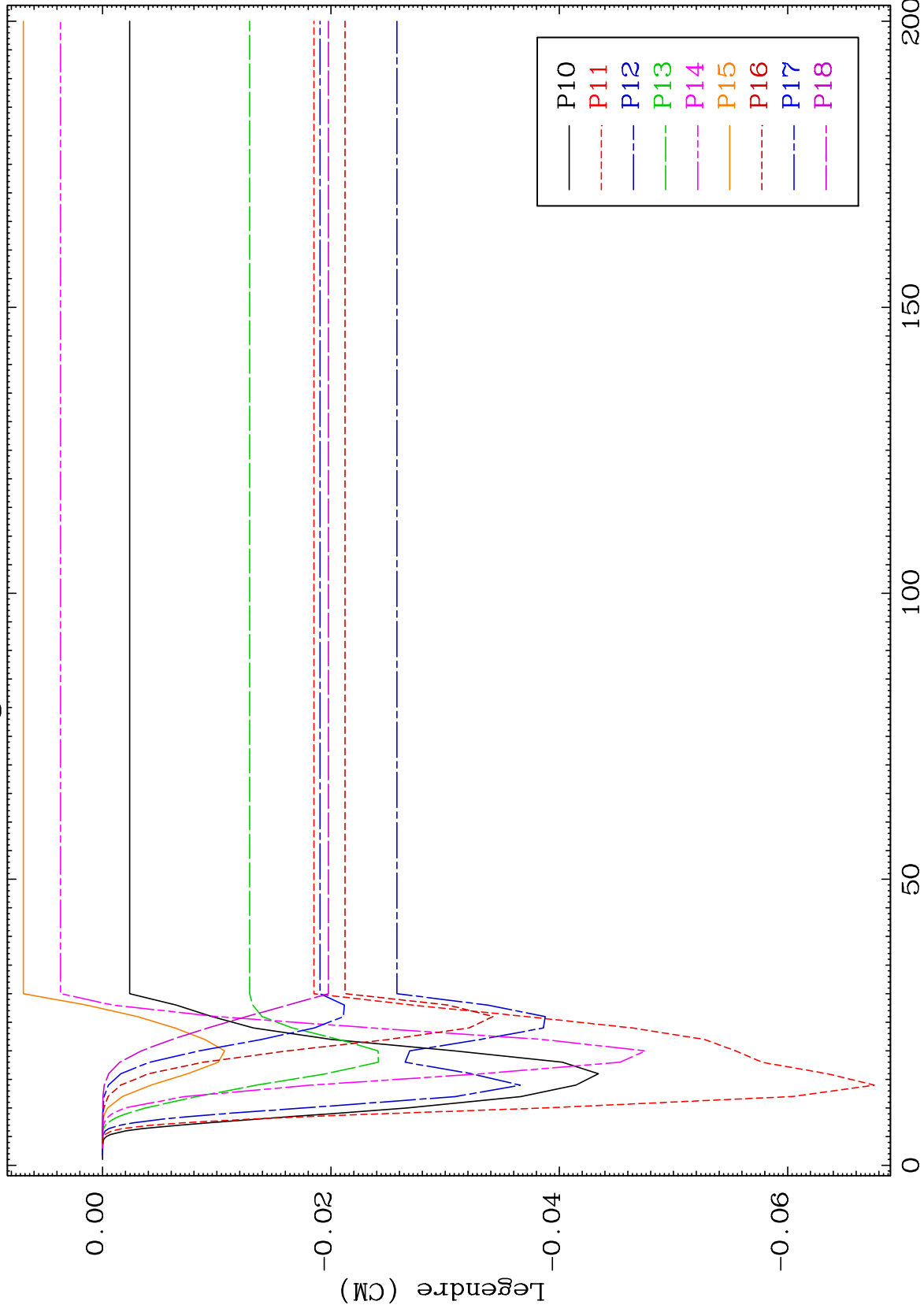


21

MAT 5410

169.3 keV (n,n') Level  
Legendre Coefficients

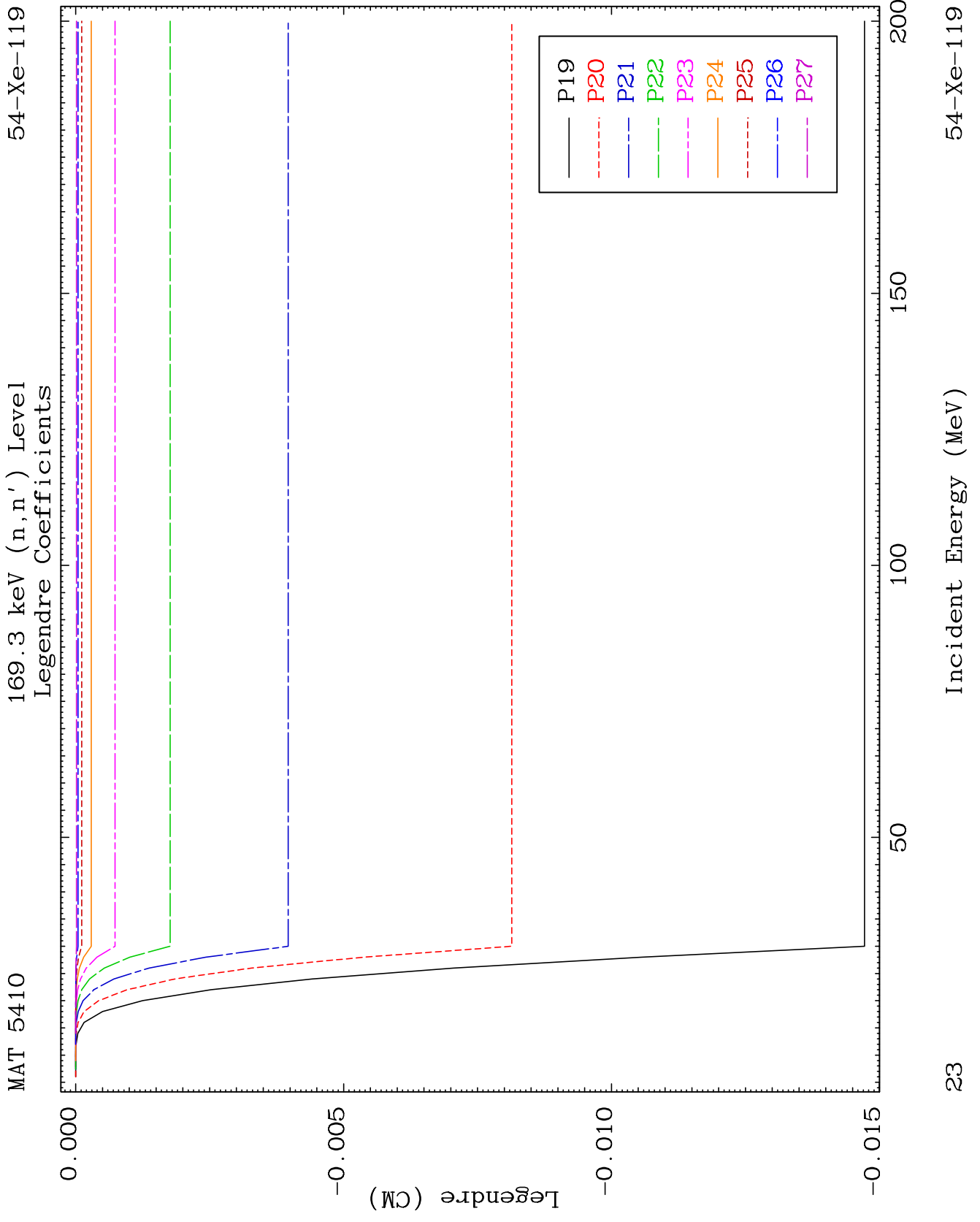
54-Xe-119



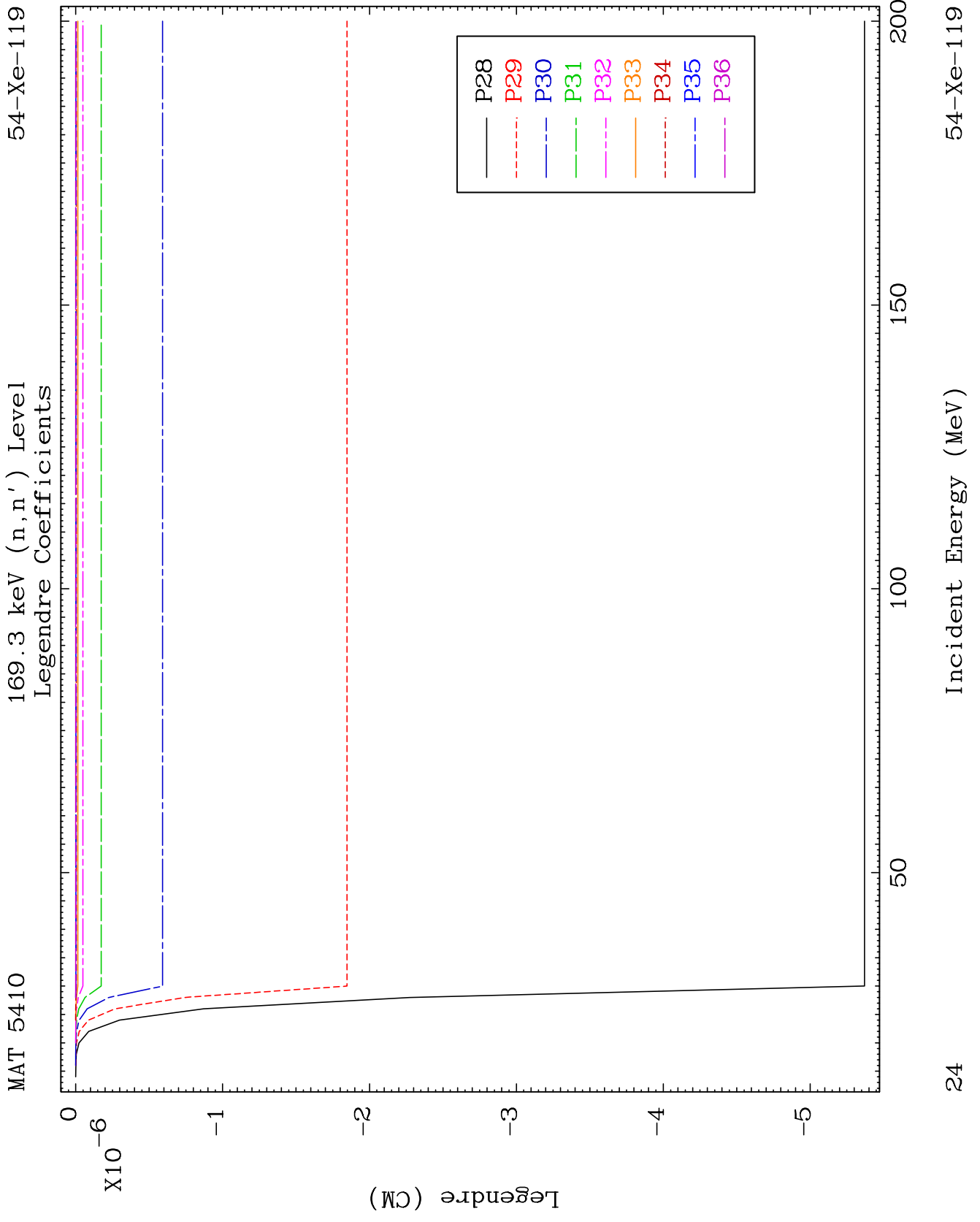
22

Incident Energy (MeV)

54-Xe-119



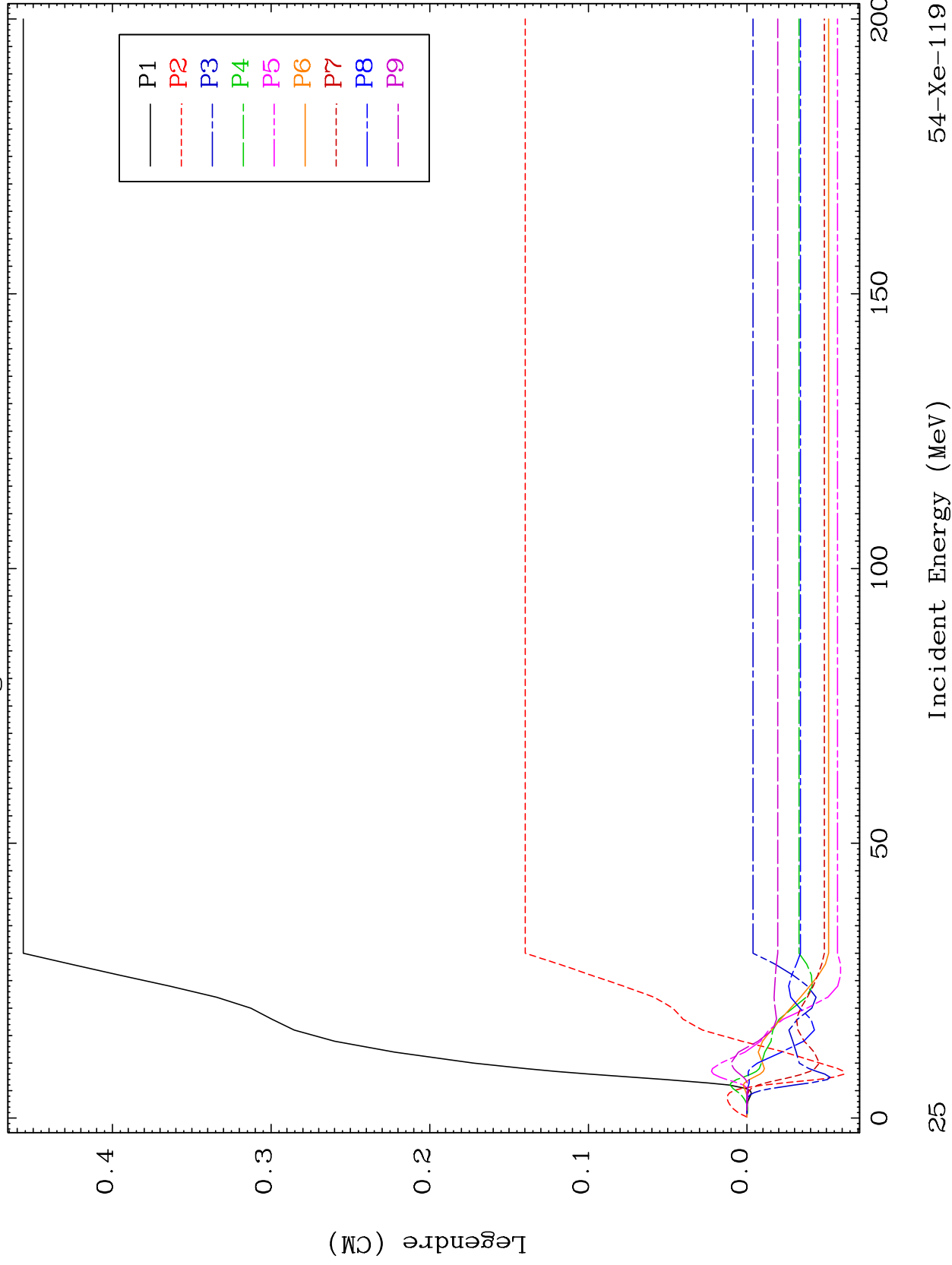




MAT 5410

176.1 keV (n,n') Level  
Legendre Coefficients

54-Xe-119

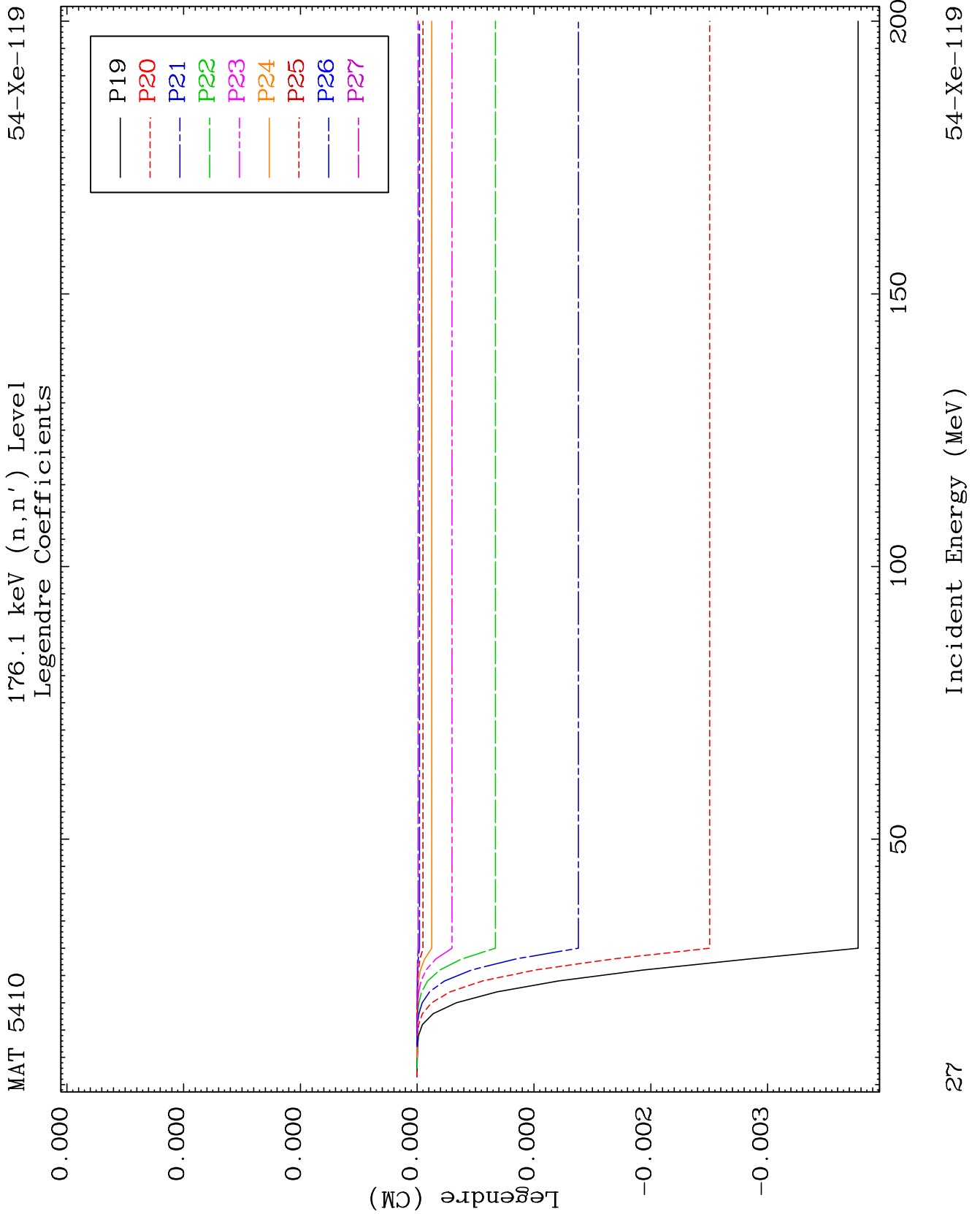


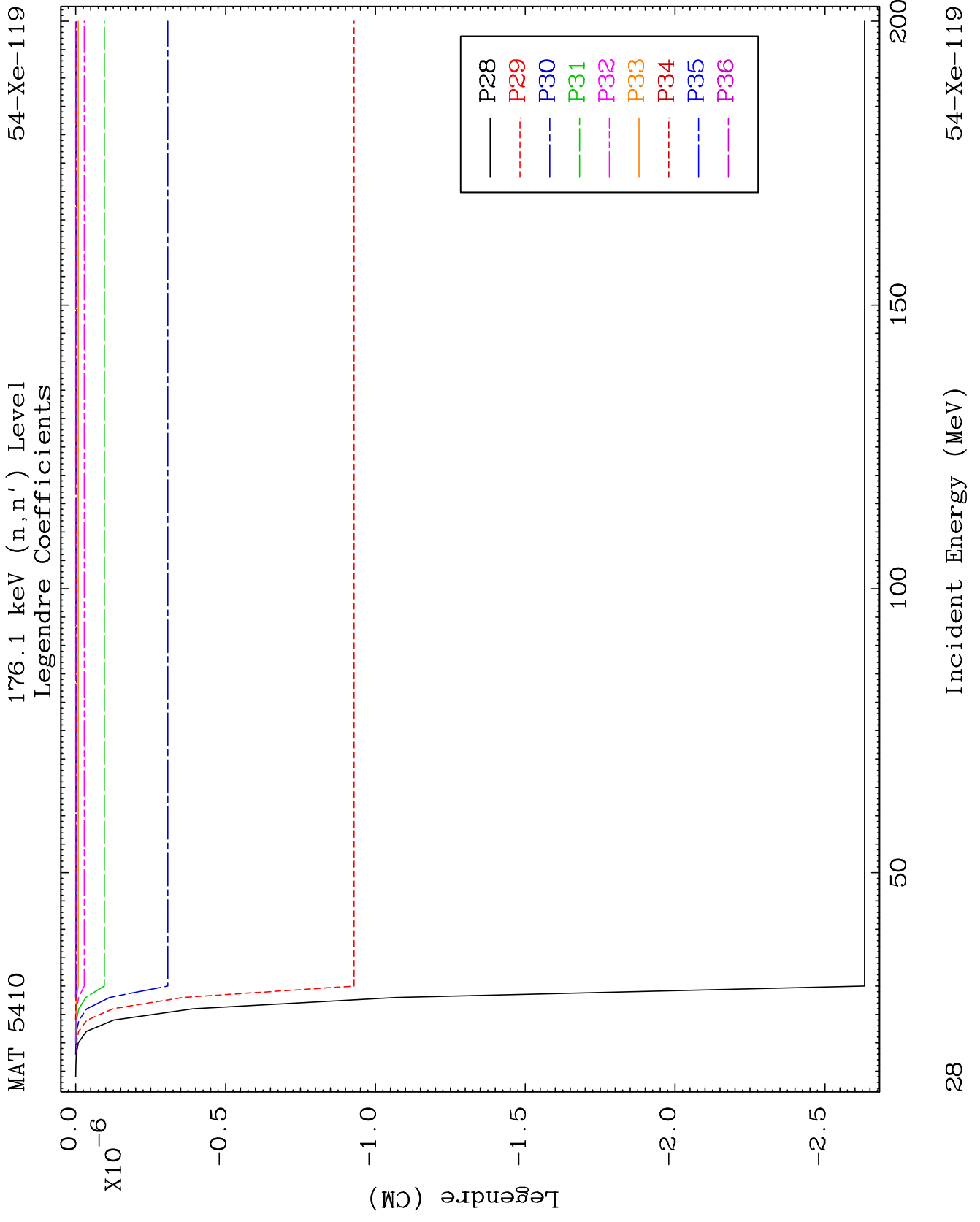
54-Xe-119

Incident Energy (MeV)

25



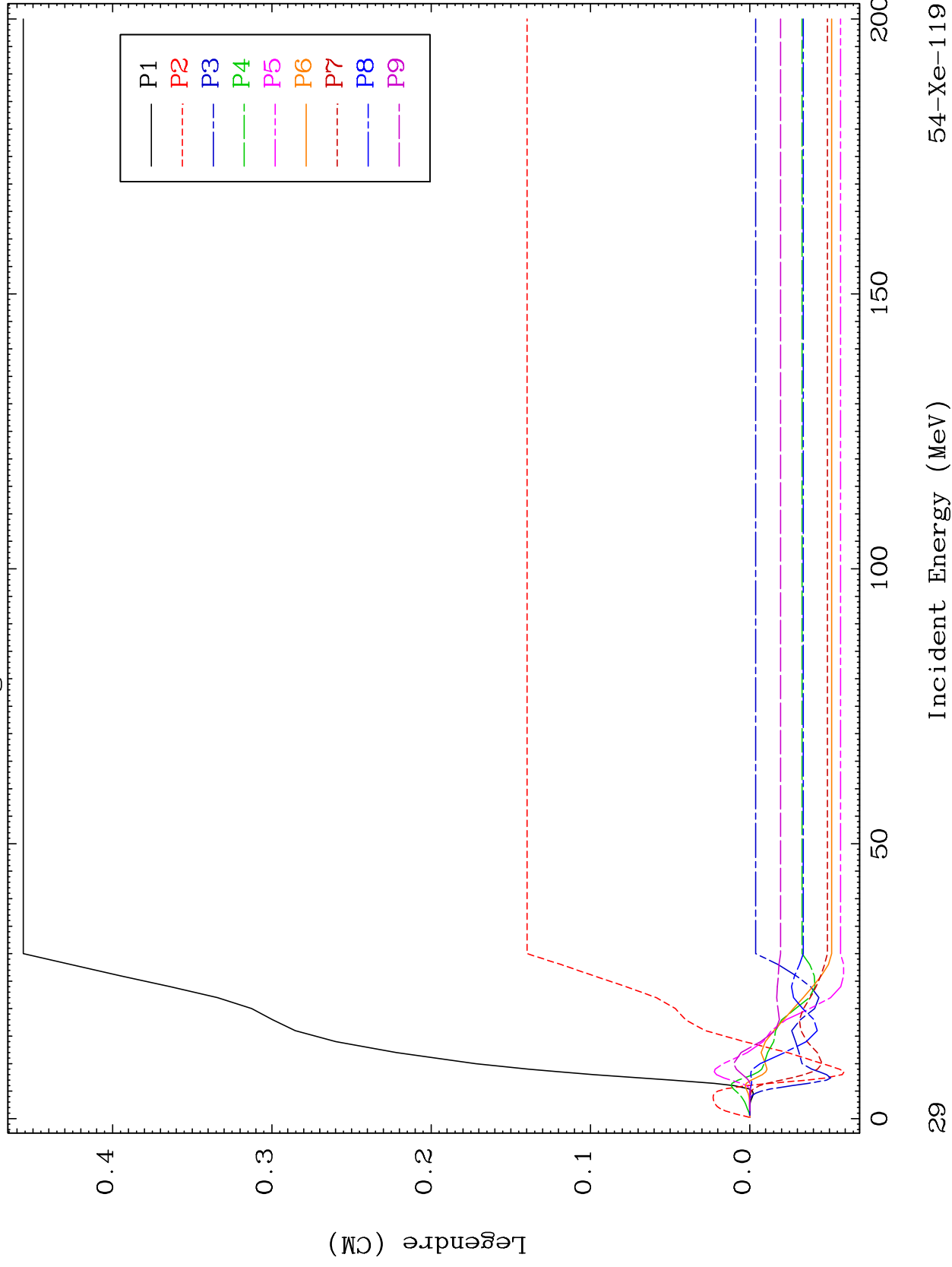




MAT 5410

197.2 keV (n,n') Level  
Legendre Coefficients

54-Xe-119

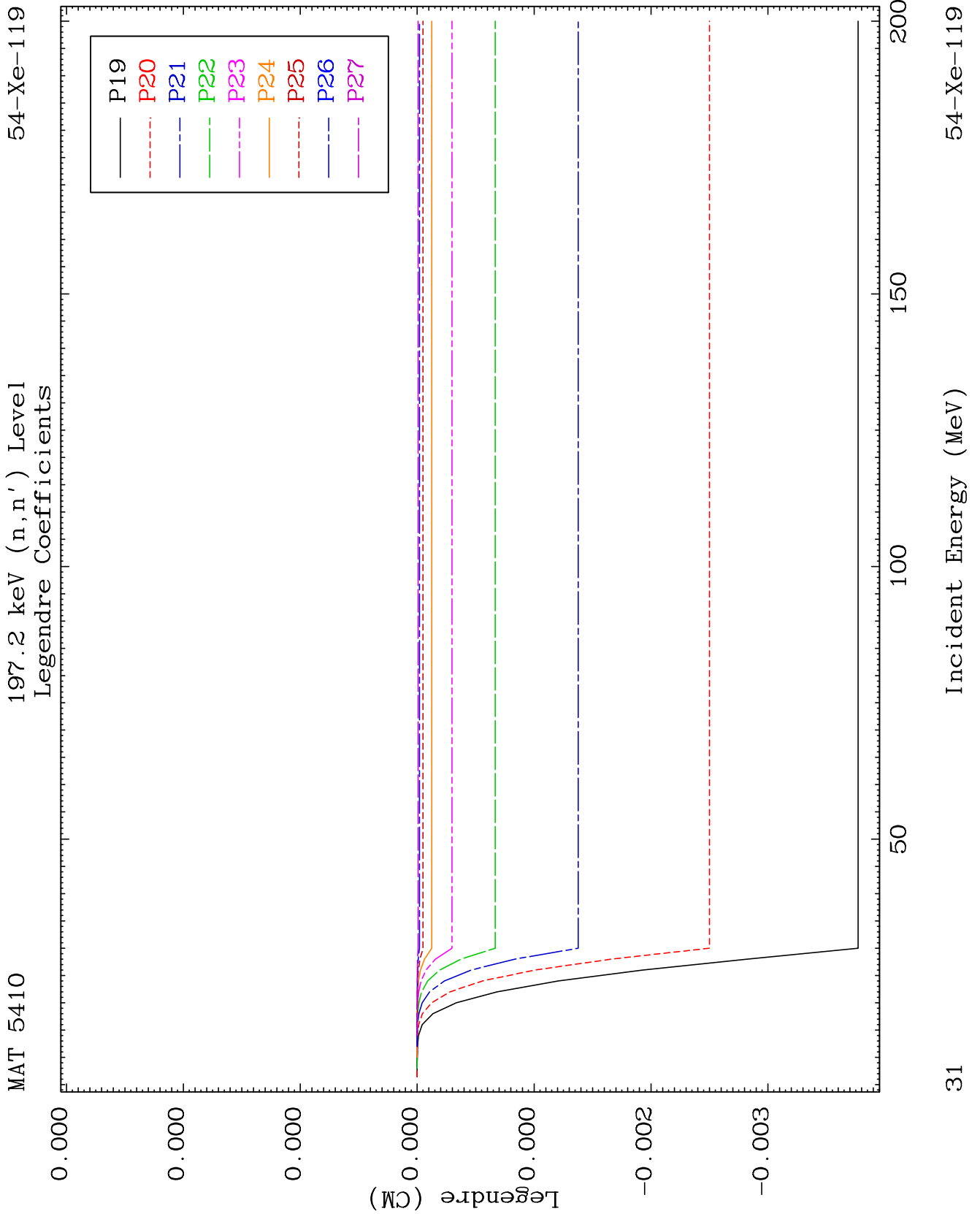


54-Xe-119

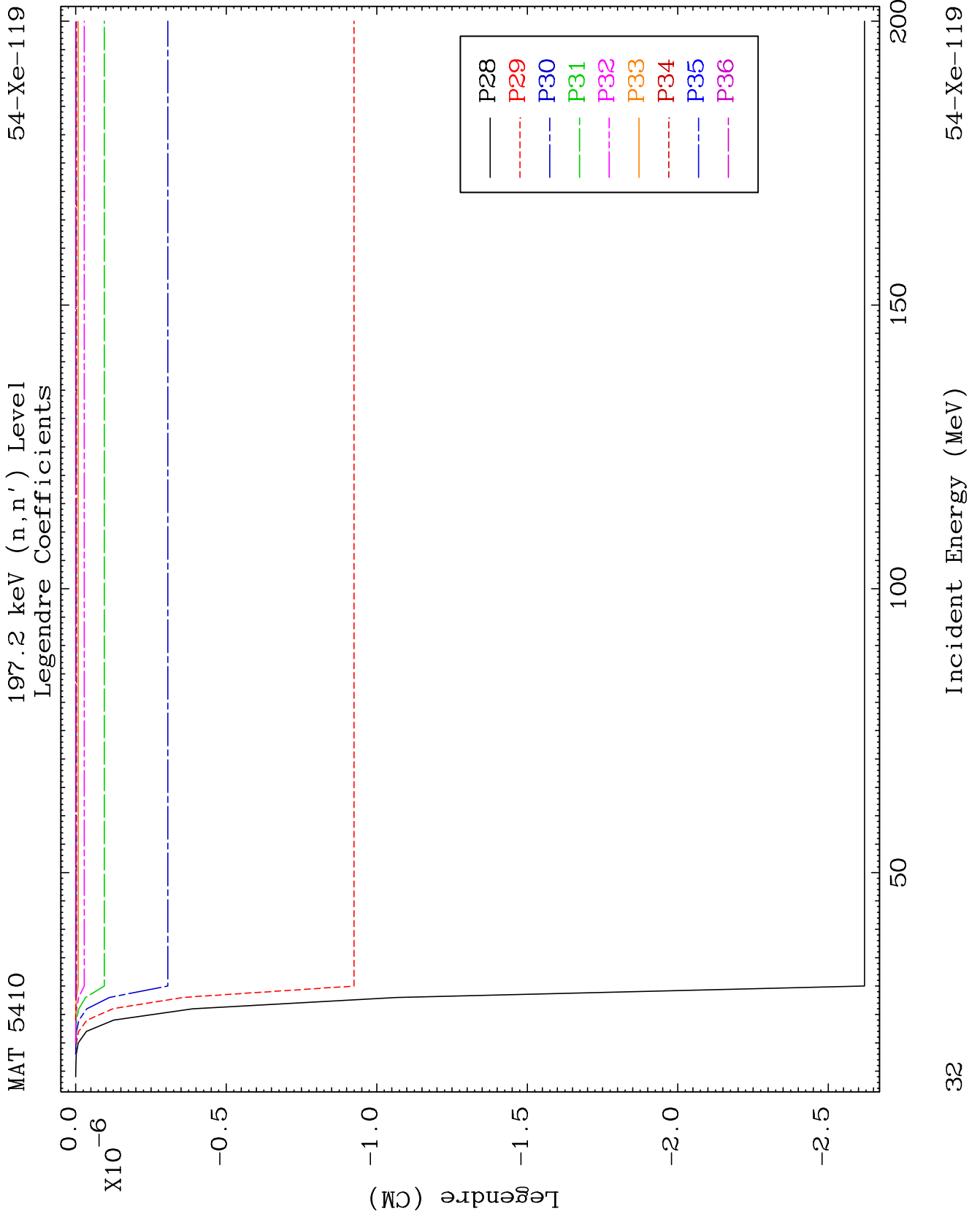
Incident Energy (MeV)

29





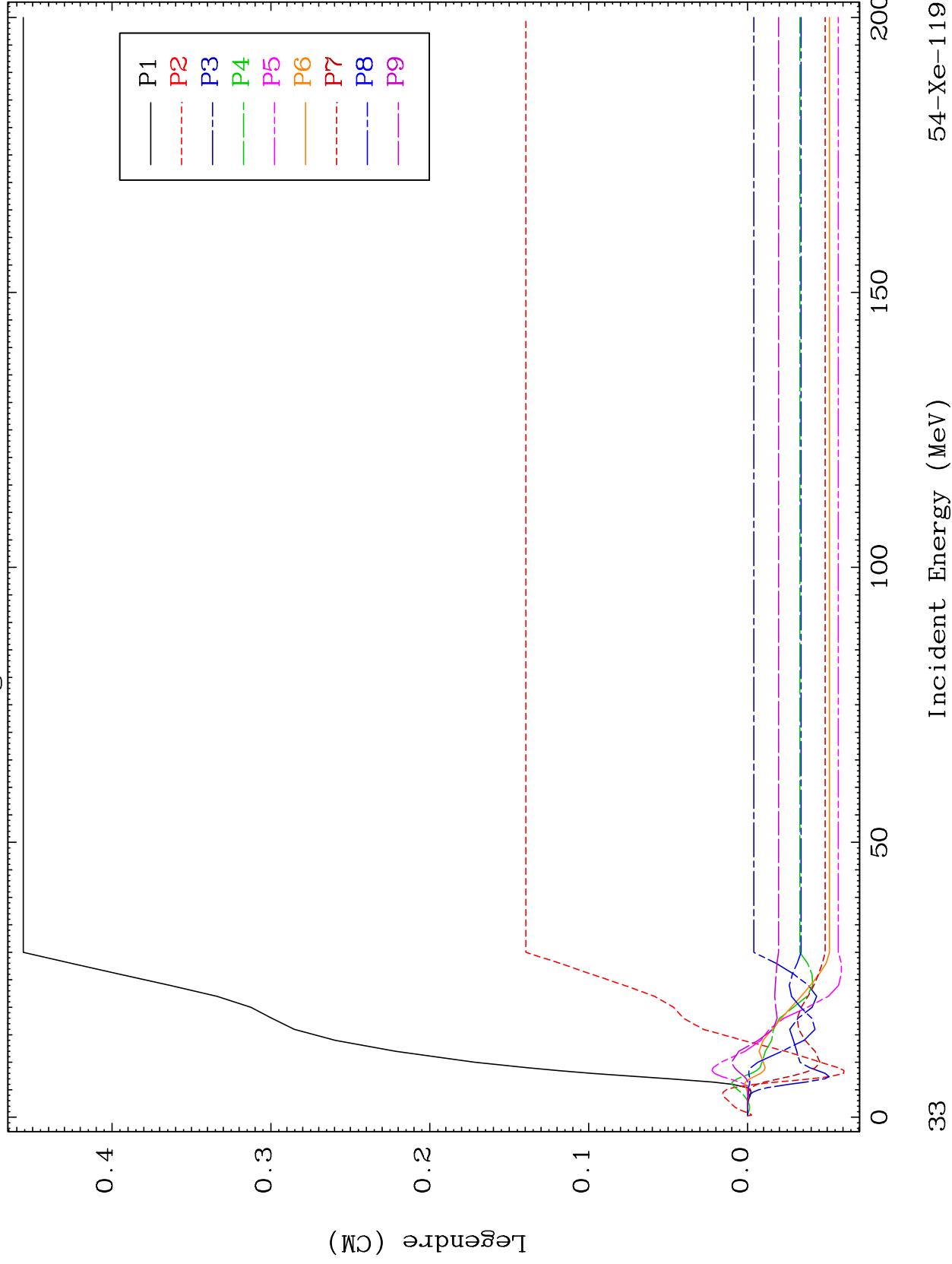




MAT 5410

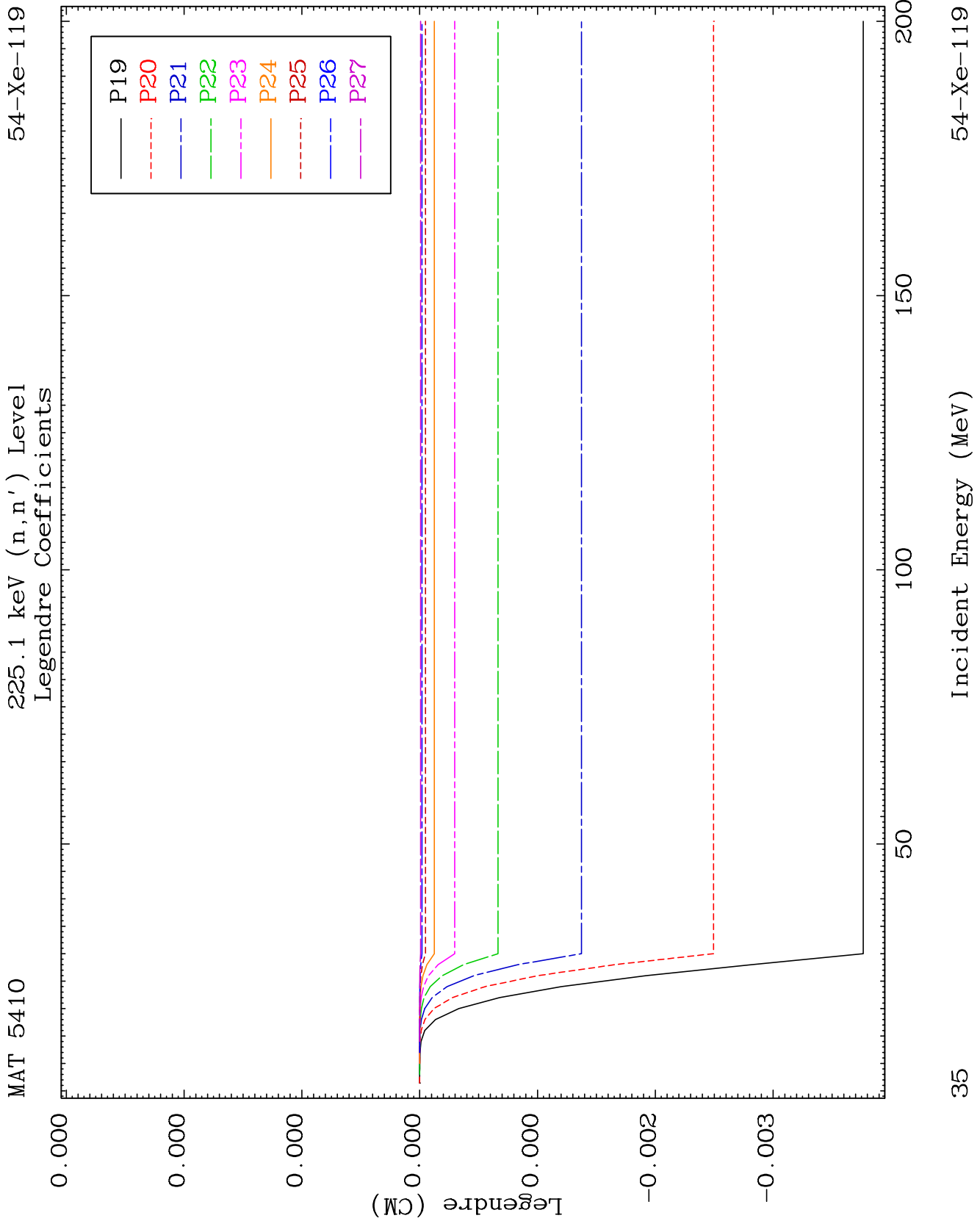
225.1 keV (n,n') Level  
Legendre Coefficients

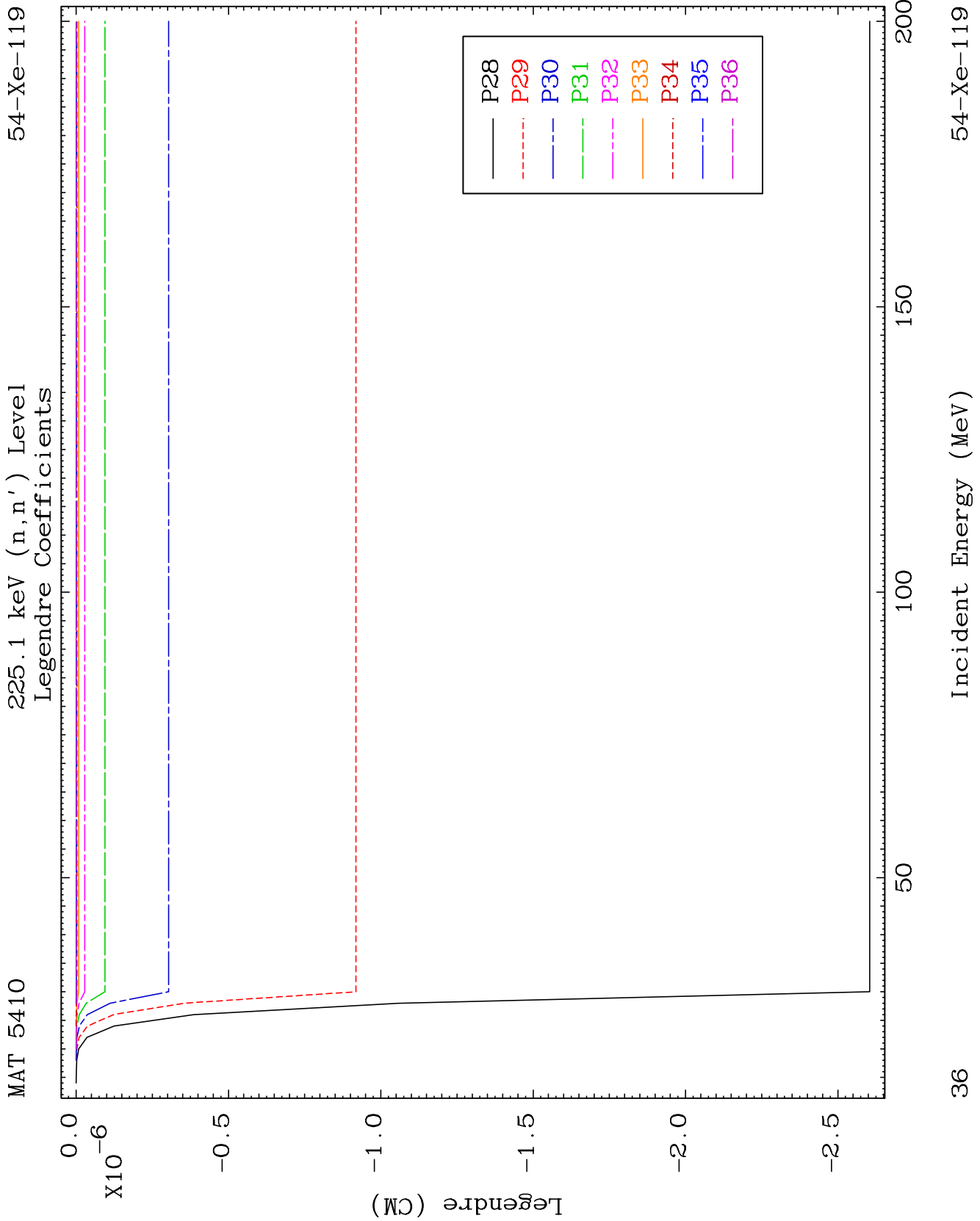
54-Xe-119



33



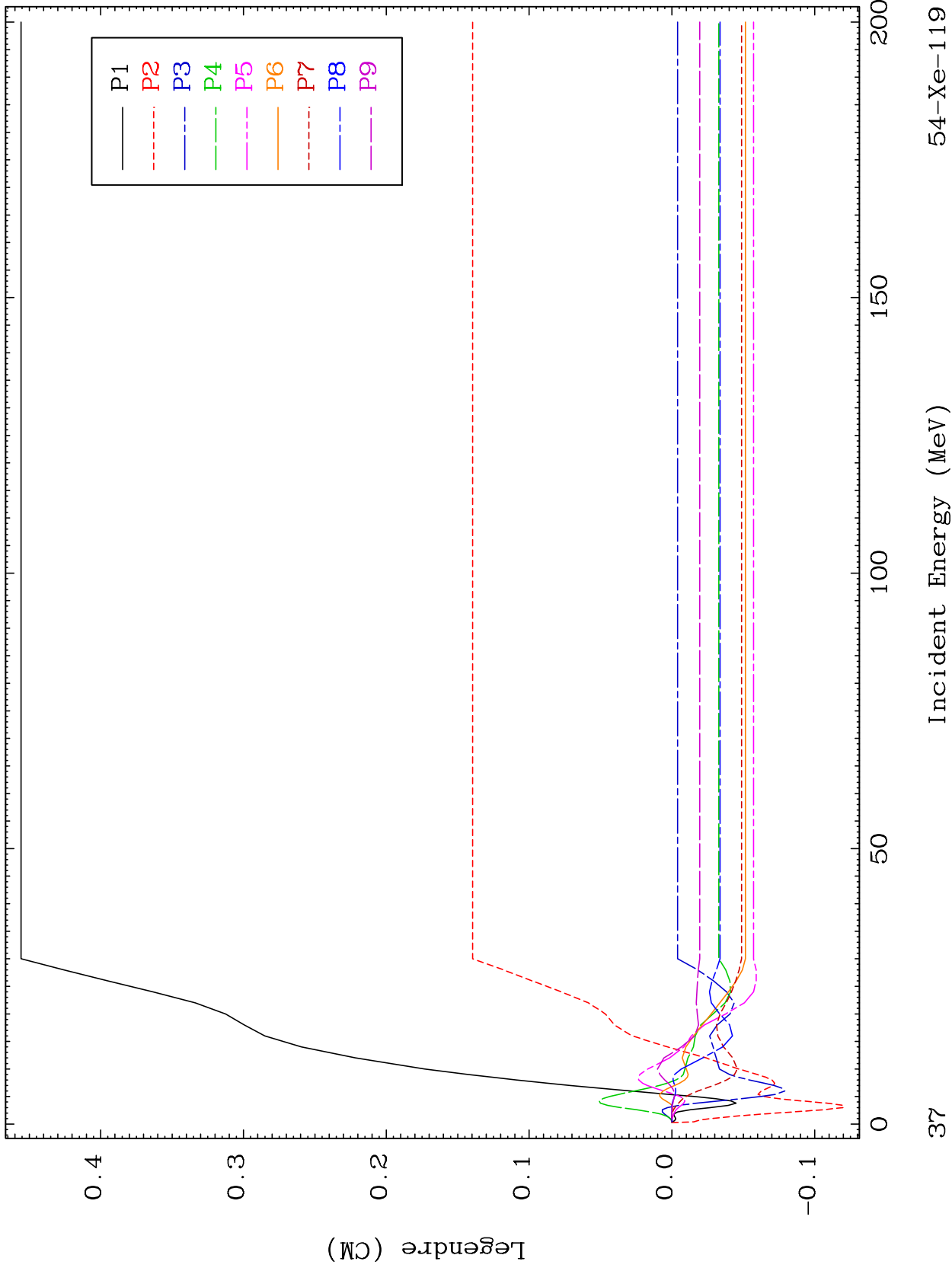




MAT 5410

243.4 keV (n,n') Level  
Legendre Coefficients

54-Xe-119

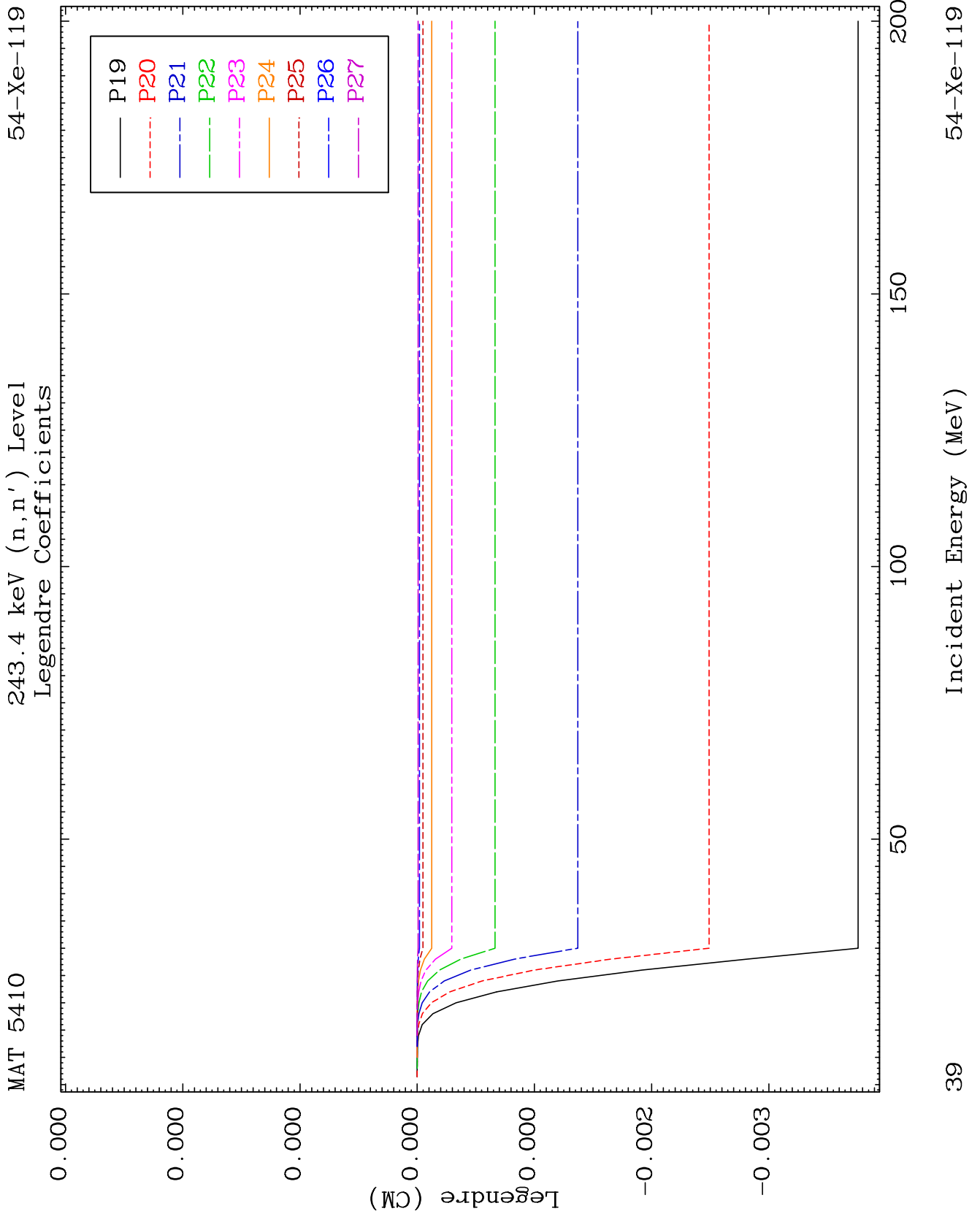


54-Xe-119

Incident Energy (MeV)

37





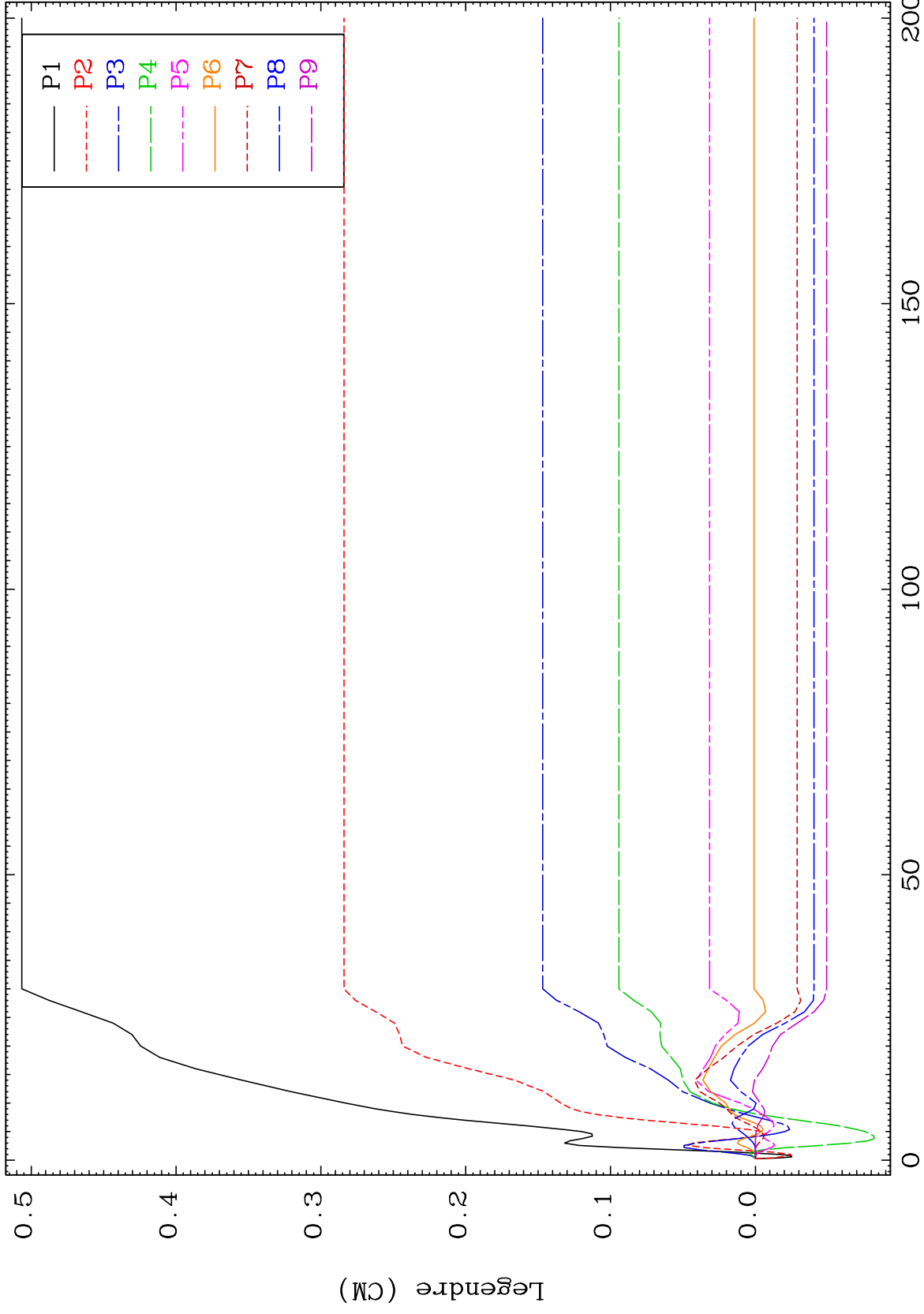




MAT 5410

246.0 keV (n,n') Level  
Legendre Coefficients

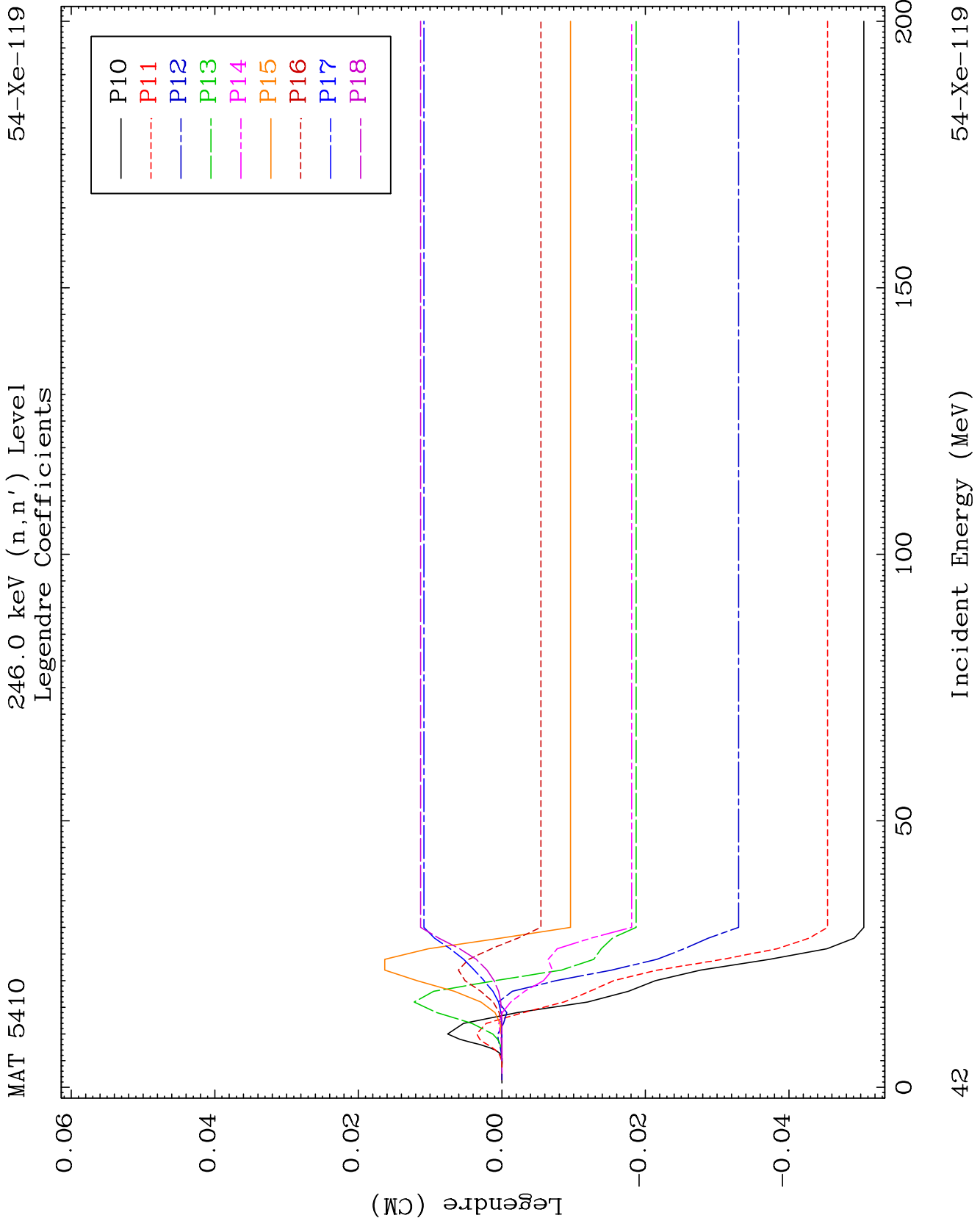
54-Xe-119

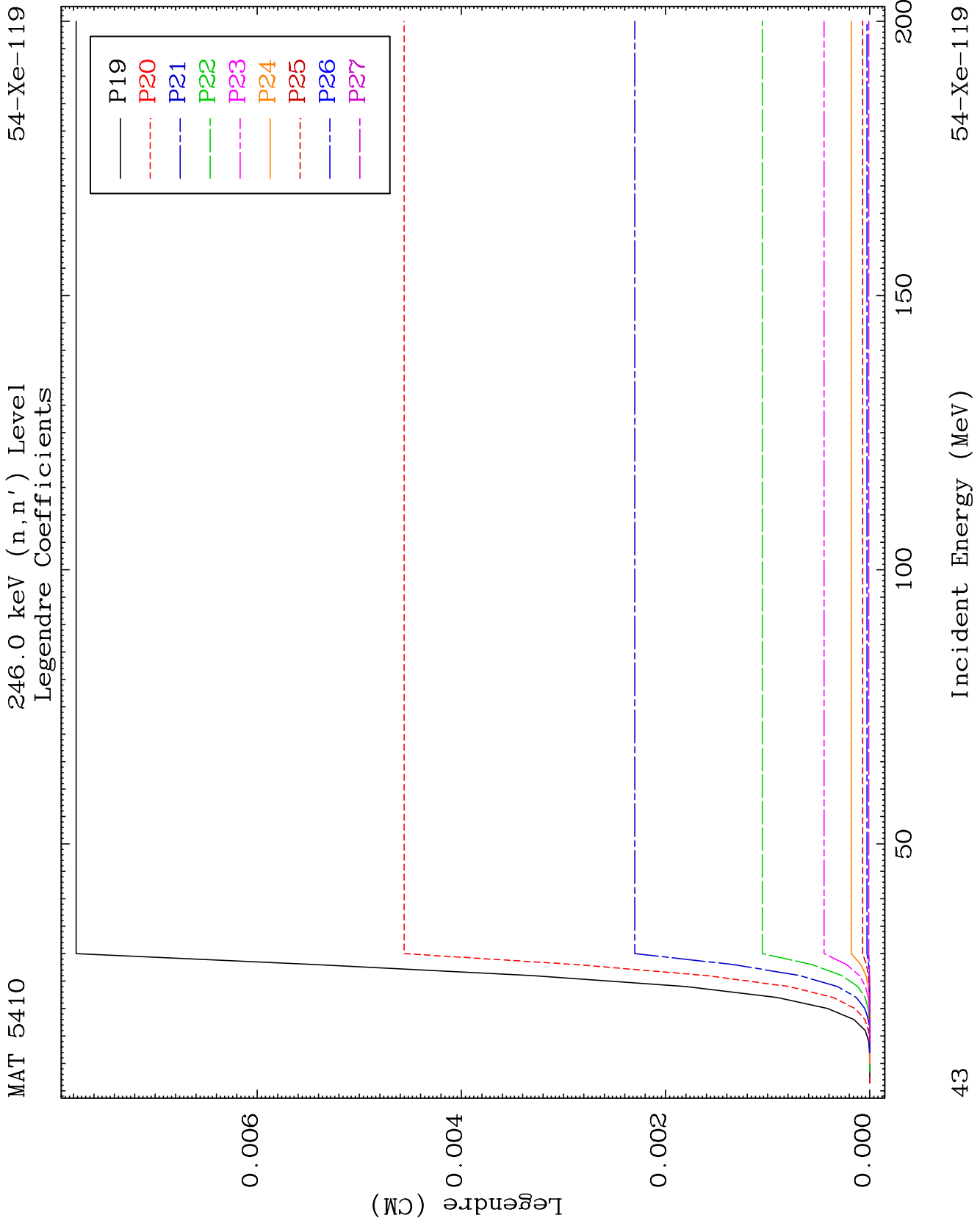


41

Incident Energy (MeV)

54-Xe-119

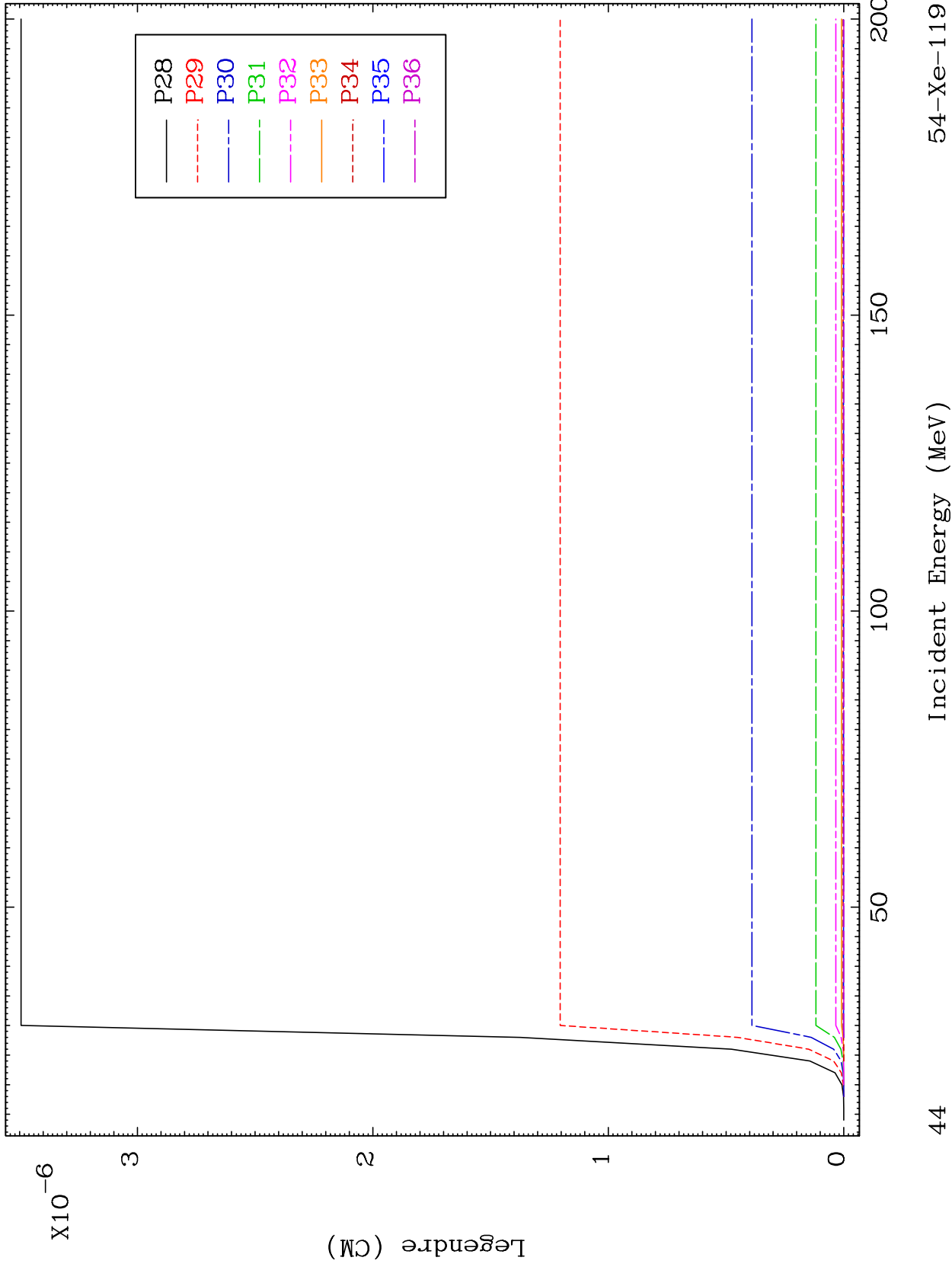




MAT 5410

246.0 keV (n,n') Level  
Legendre Coefficients

54-Xe-119



44

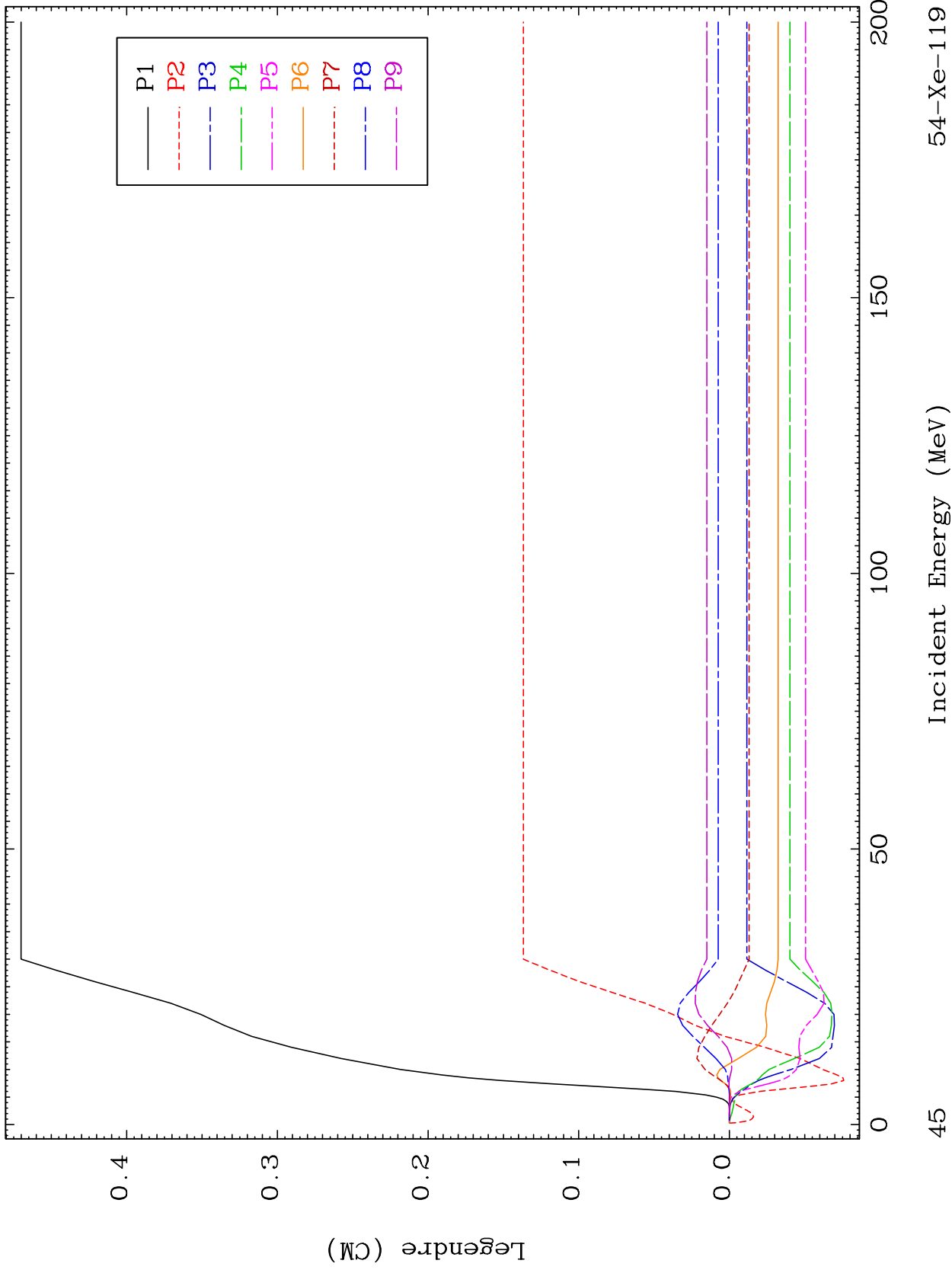
Incident Energy (MeV)

54-Xe-119

MAT 5410

252.1 keV (n,n') Level  
Legendre Coefficients

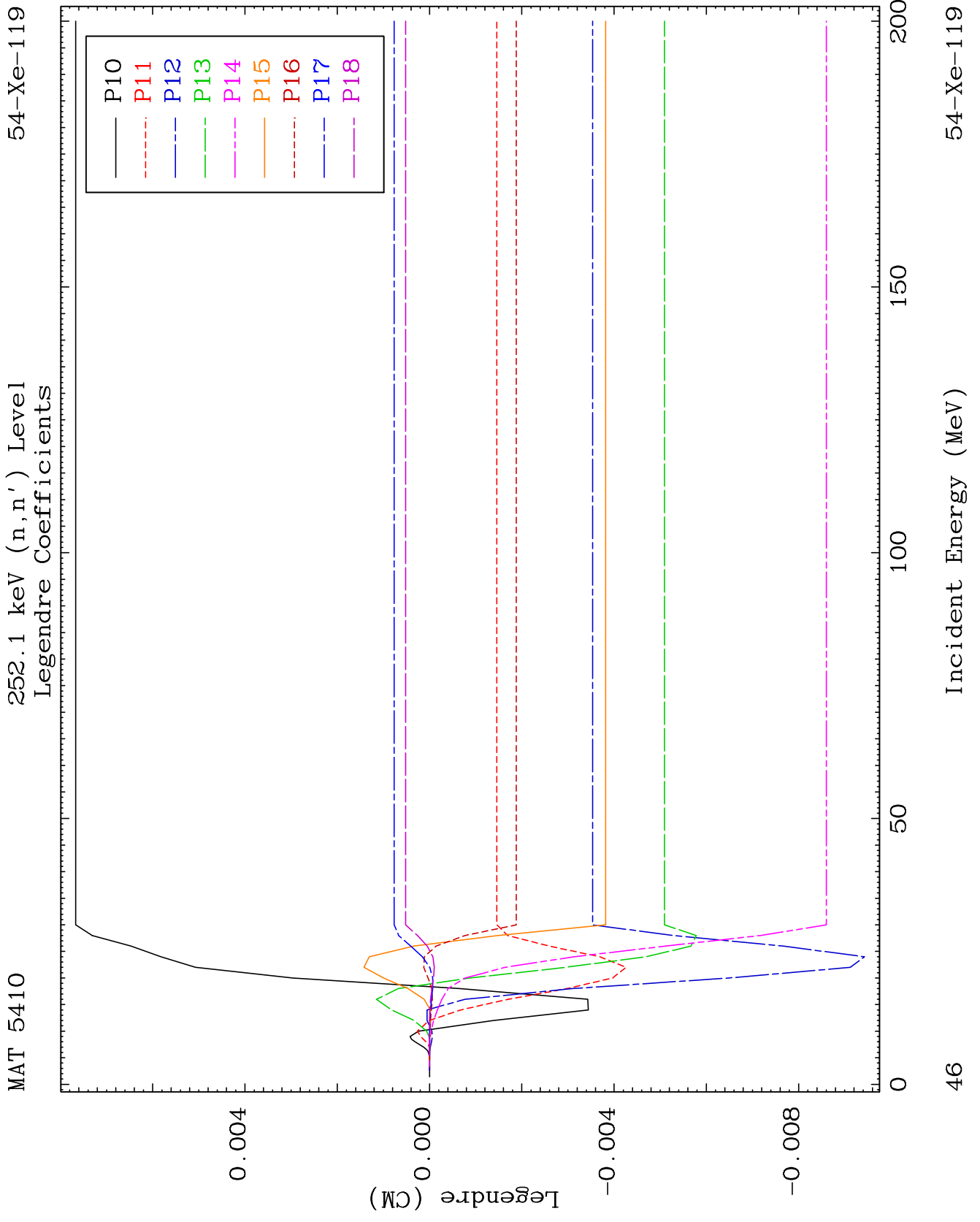
54-Xe-119

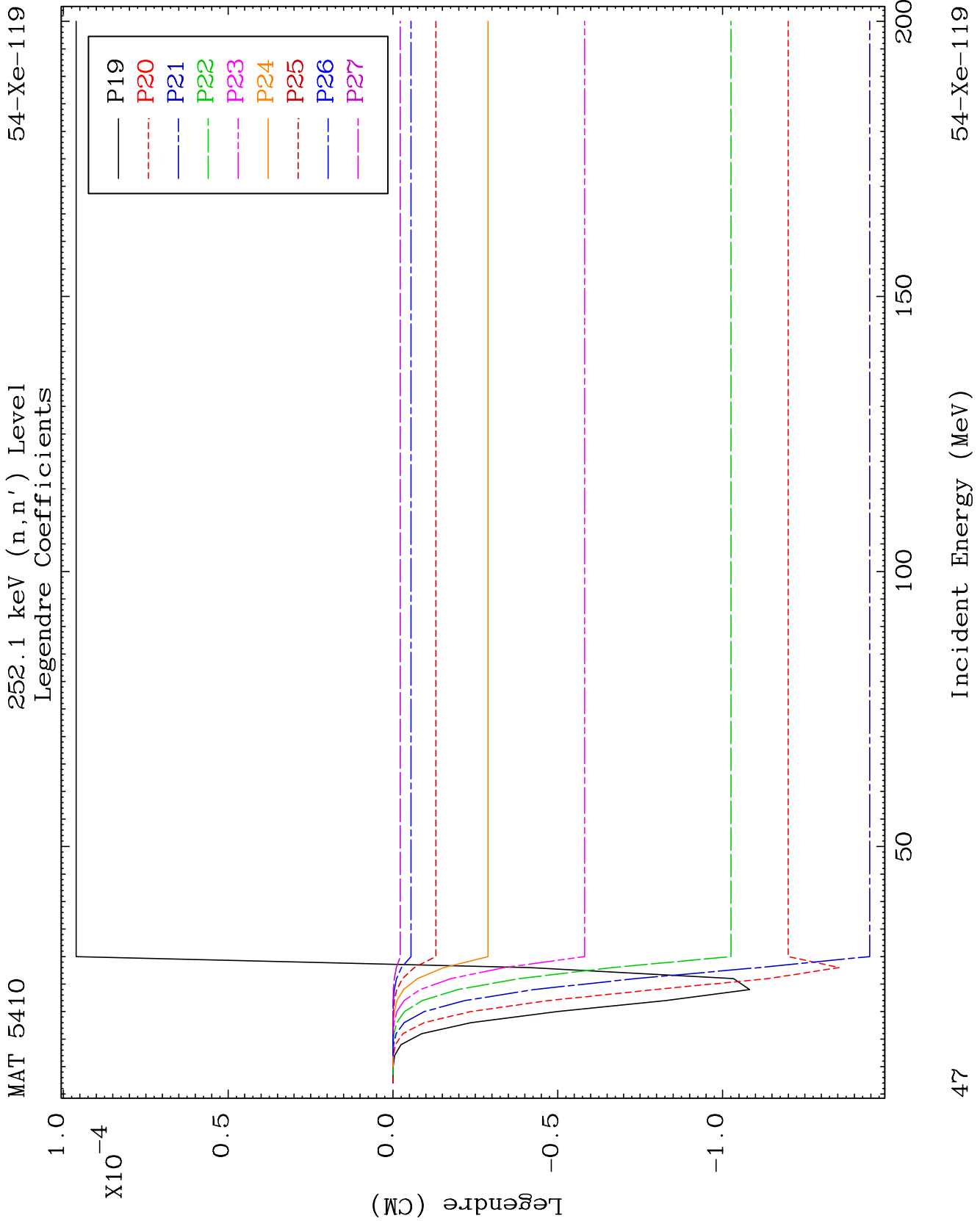


54-Xe-119

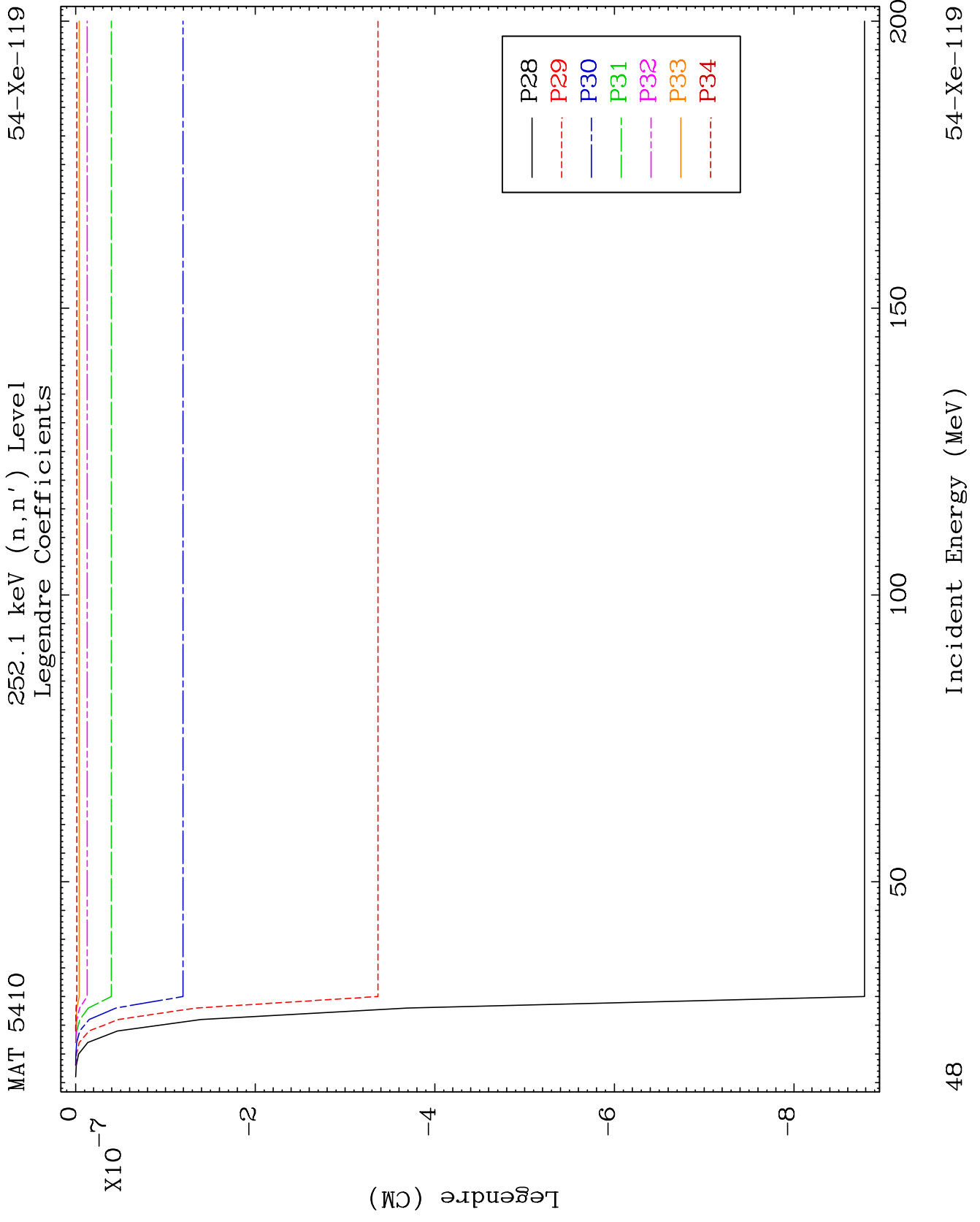
Incident Energy (MeV)

45





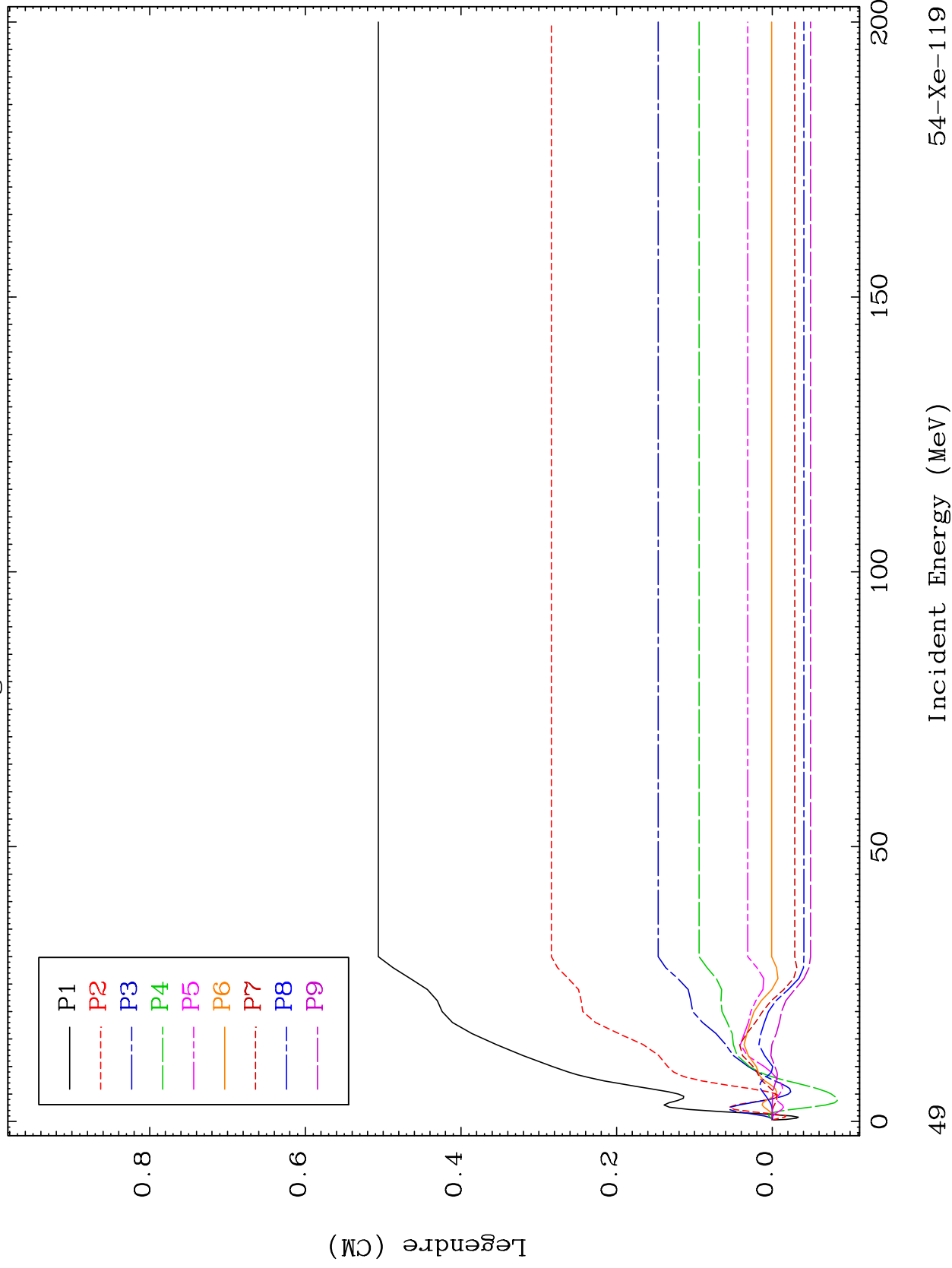




MAT 5410

257.8 keV (n,n') Level  
Legendre Coefficients

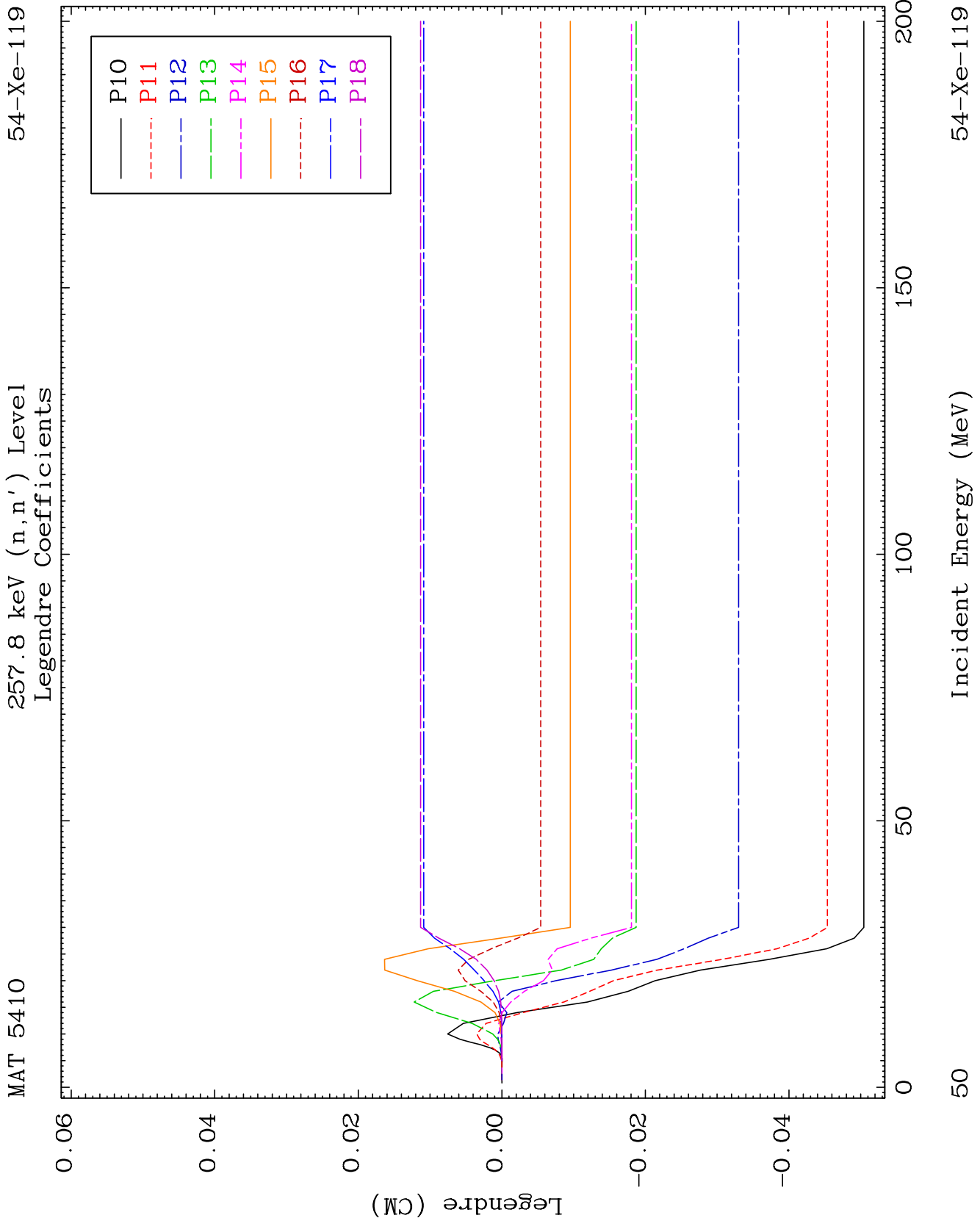
54-Xe-119



49

Incident Energy (MeV)

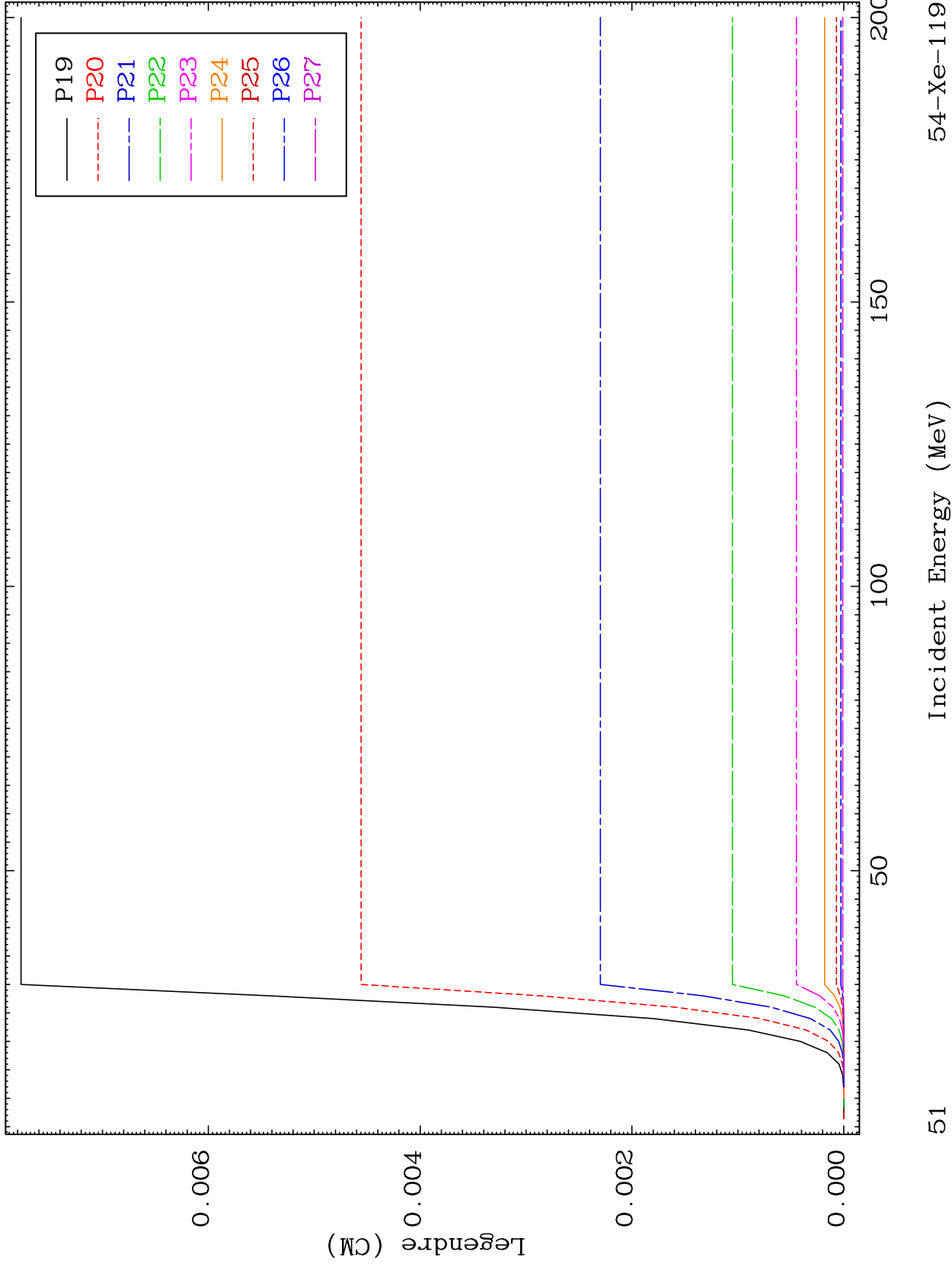
54-Xe-119



MAT 5410

257.8 keV (n,n') Level  
Legendre Coefficients

54-Xe-119



51

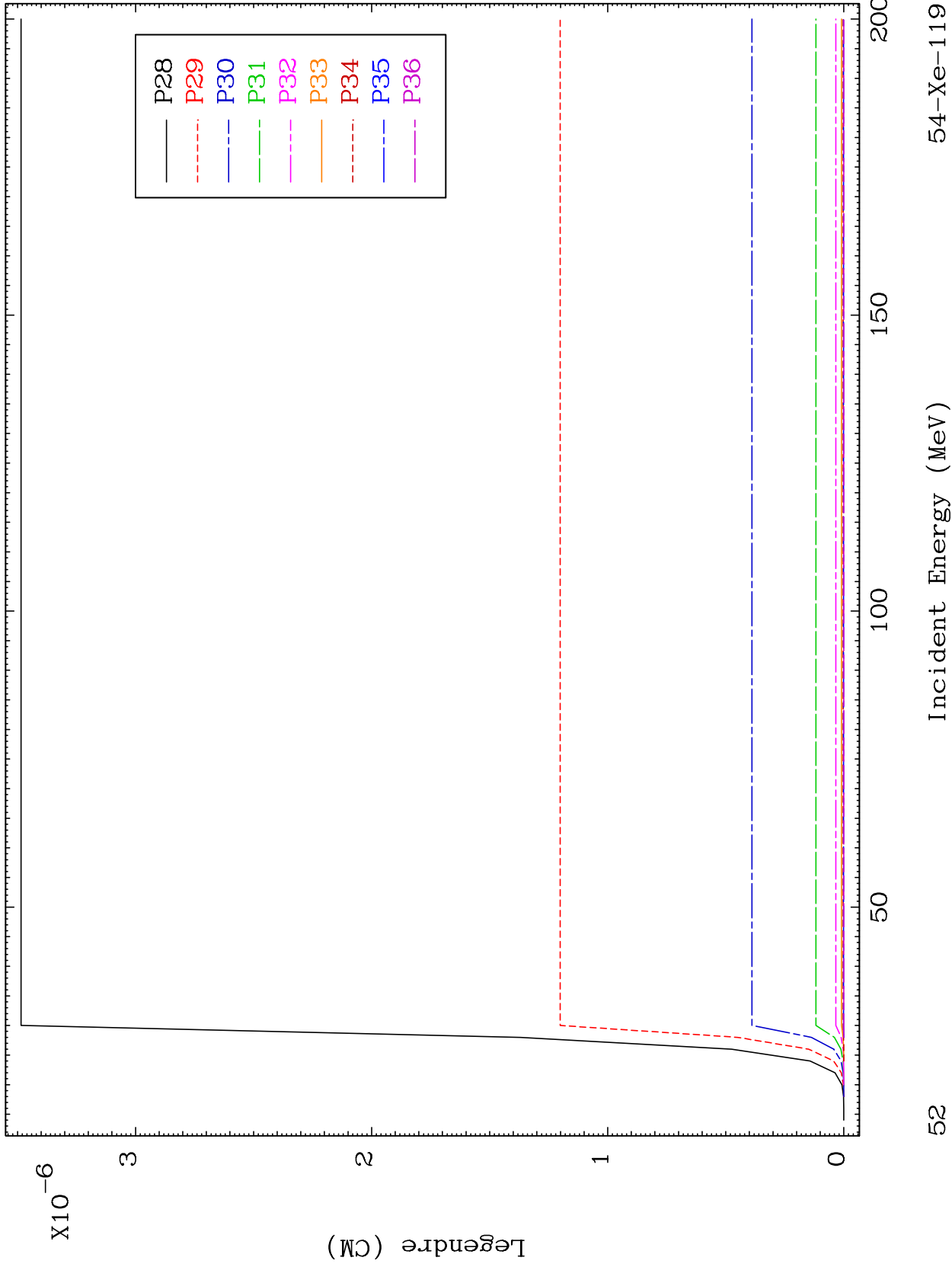
Incident Energy (MeV)

54-Xe-119

MAT 5410

257.8 keV (n,n') Level  
Legendre Coefficients

54-Xe-119



52

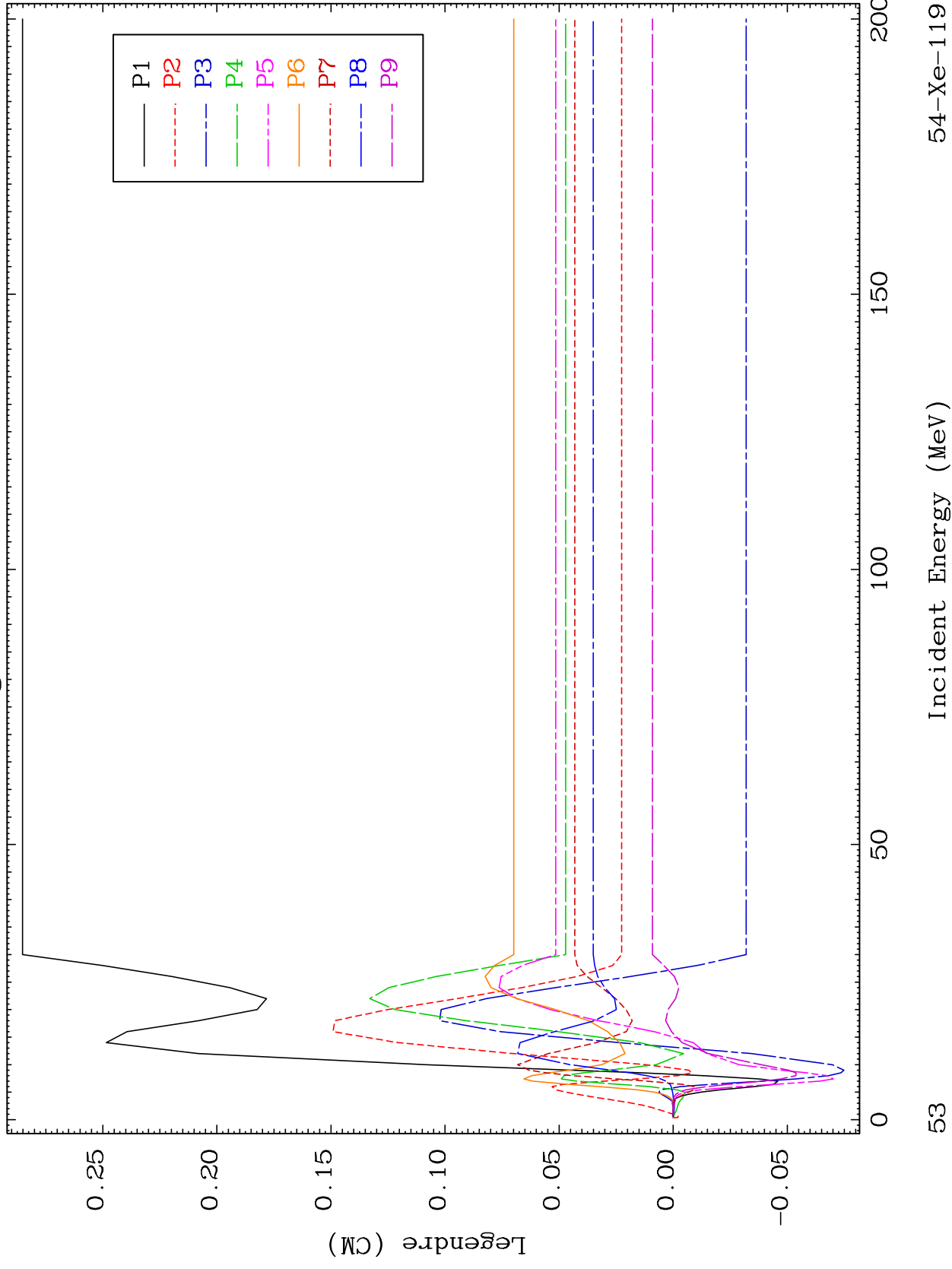
Incident Energy (MeV)

54-Xe-119

MAT 5410

314.1 keV (n,n') Level  
Legendre Coefficients

54-Xe-119



53

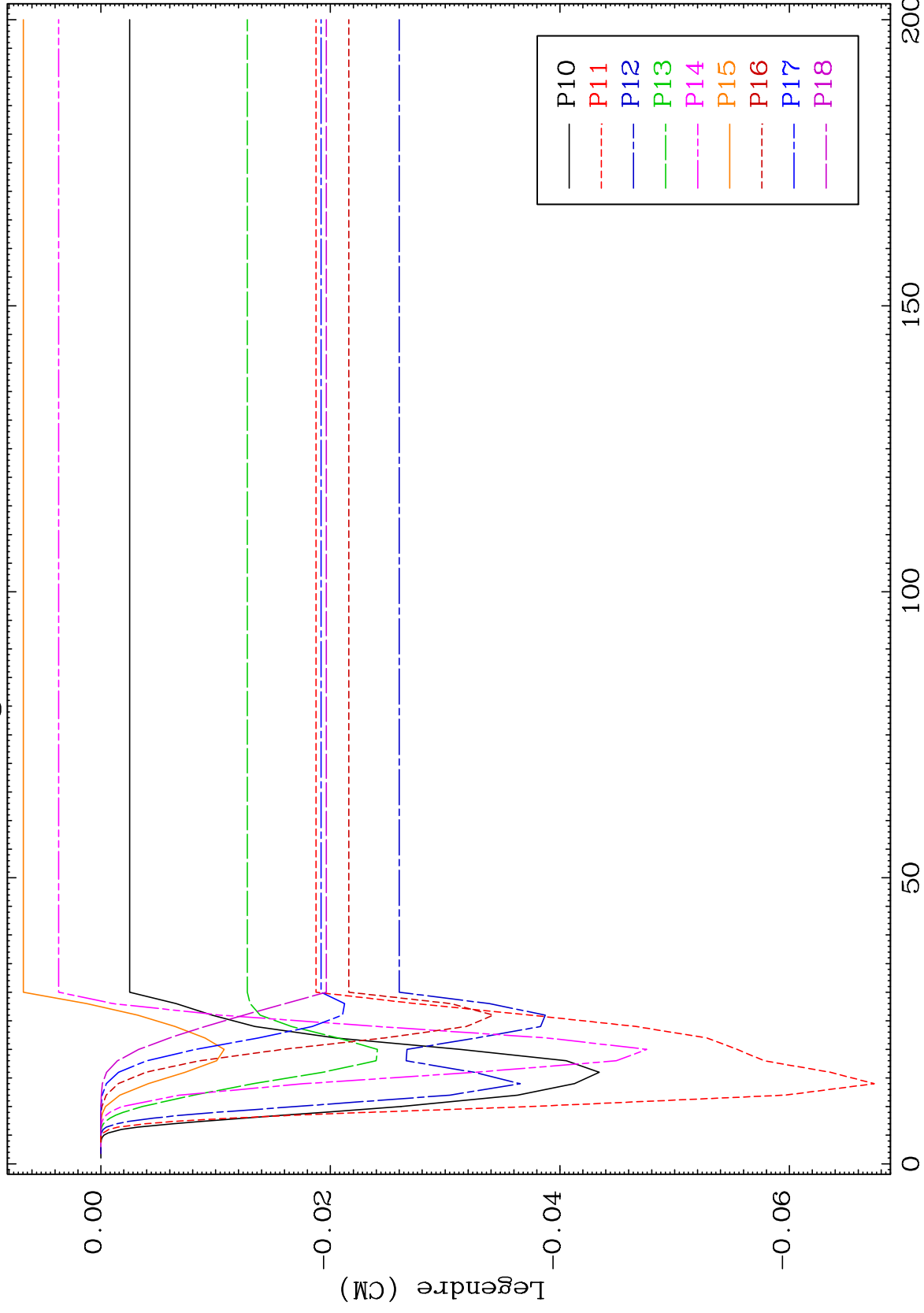
Incident Energy (MeV)

54-Xe-119

MAT 5410

314.1 keV (n,n') Level  
Legendre Coefficients

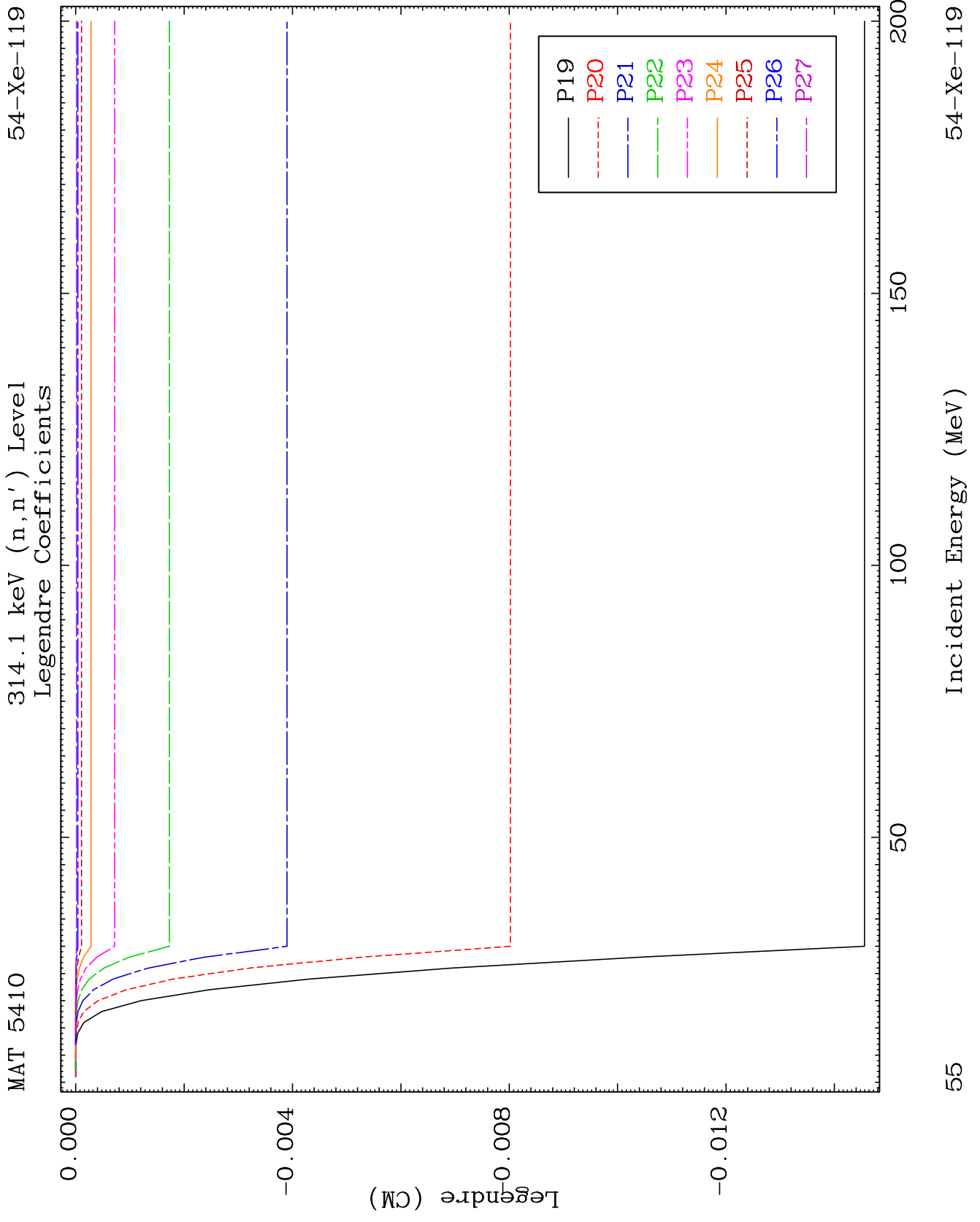
54-Xe-119



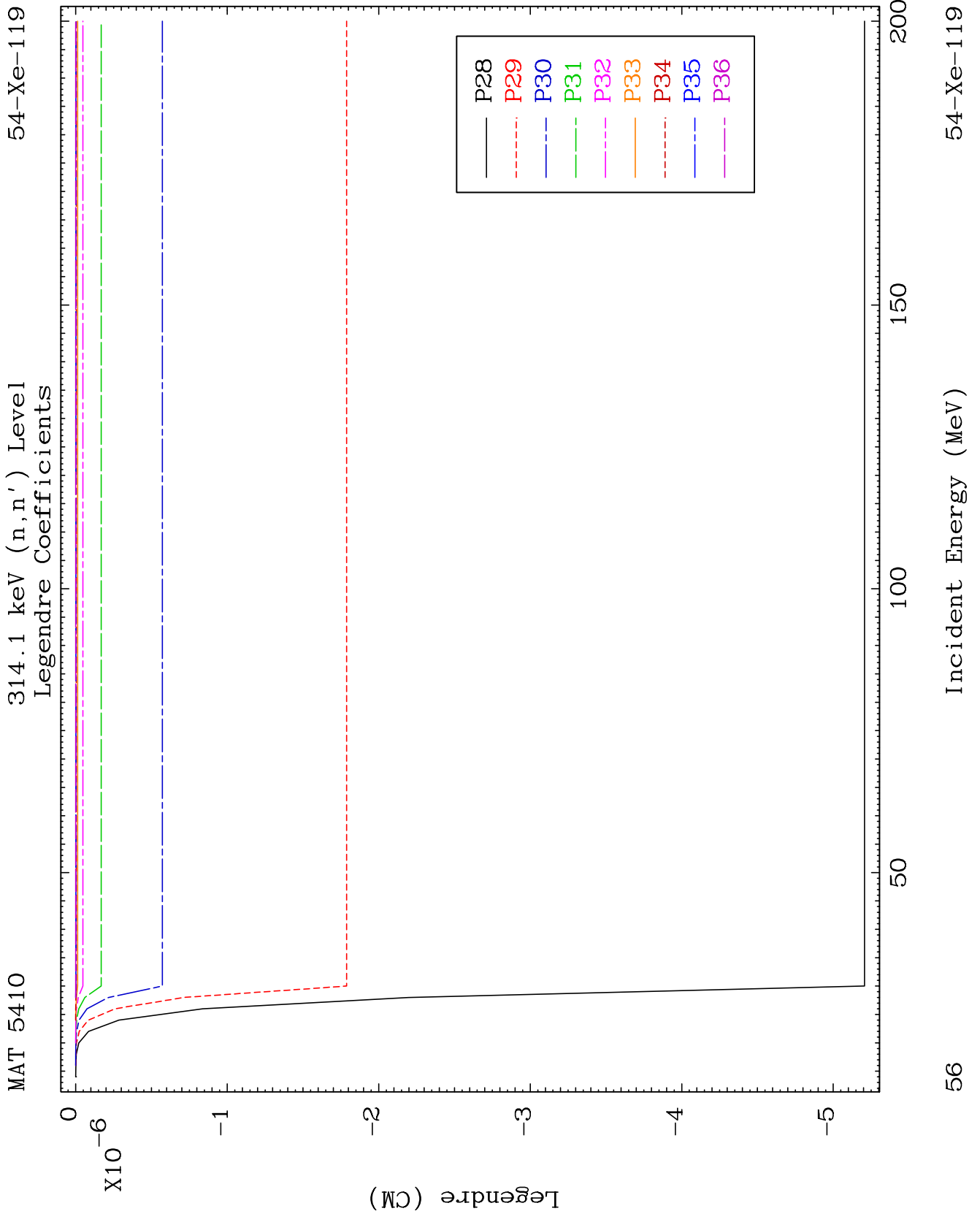
54

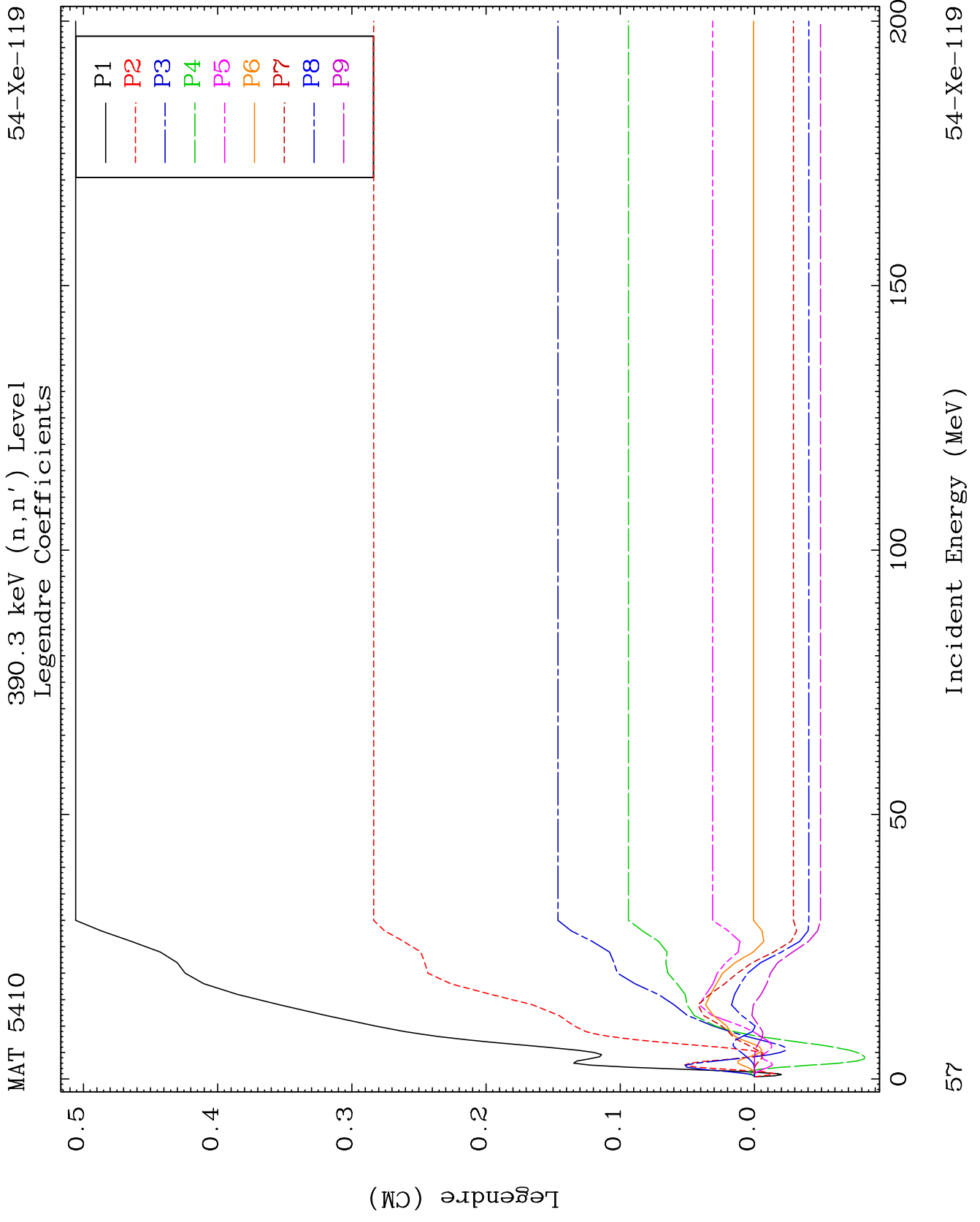
Incident Energy (MeV)

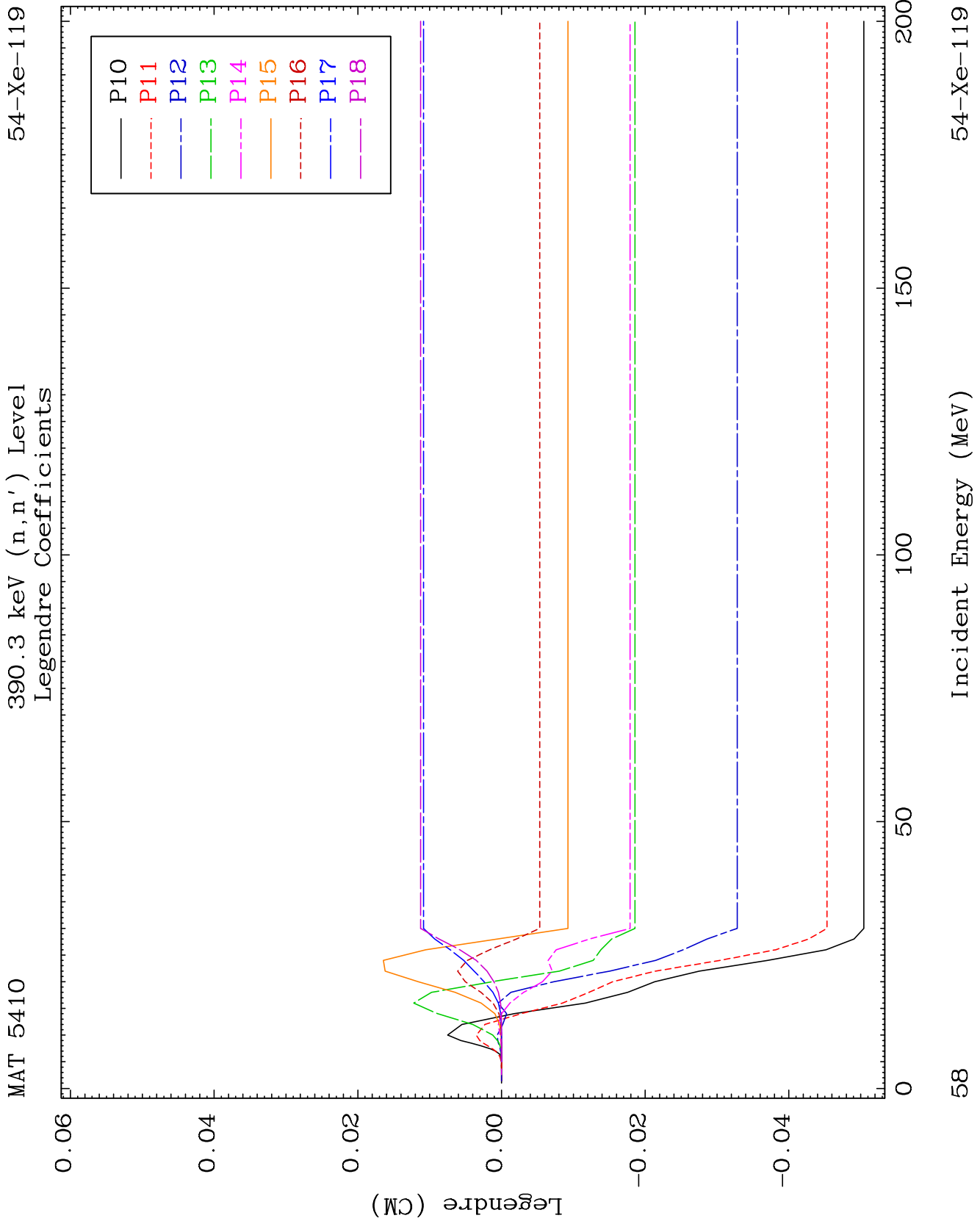
54-Xe-119







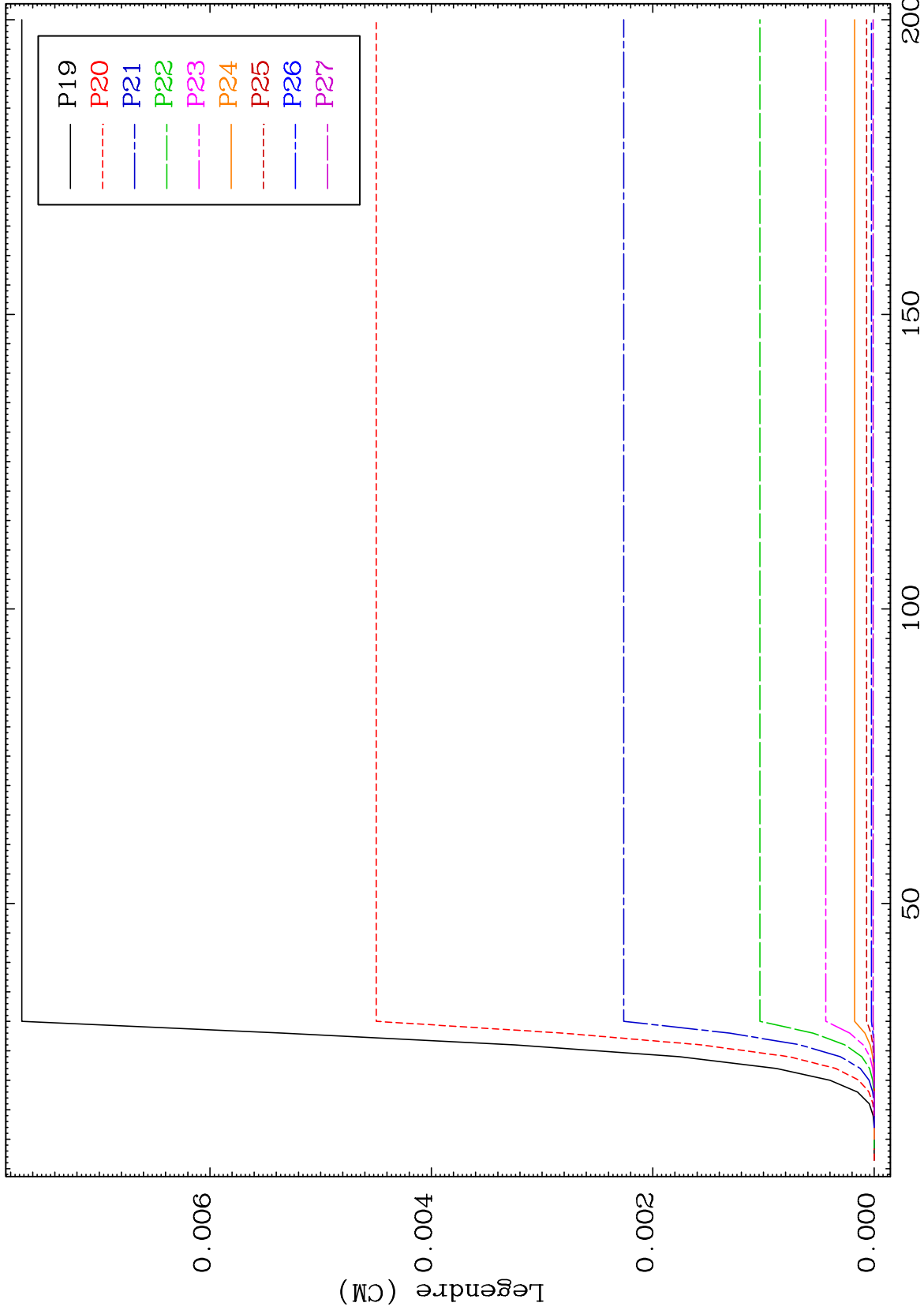




MAT 5410

390.3 keV (n,n') Level  
Legendre Coefficients

54-Xe-119



59

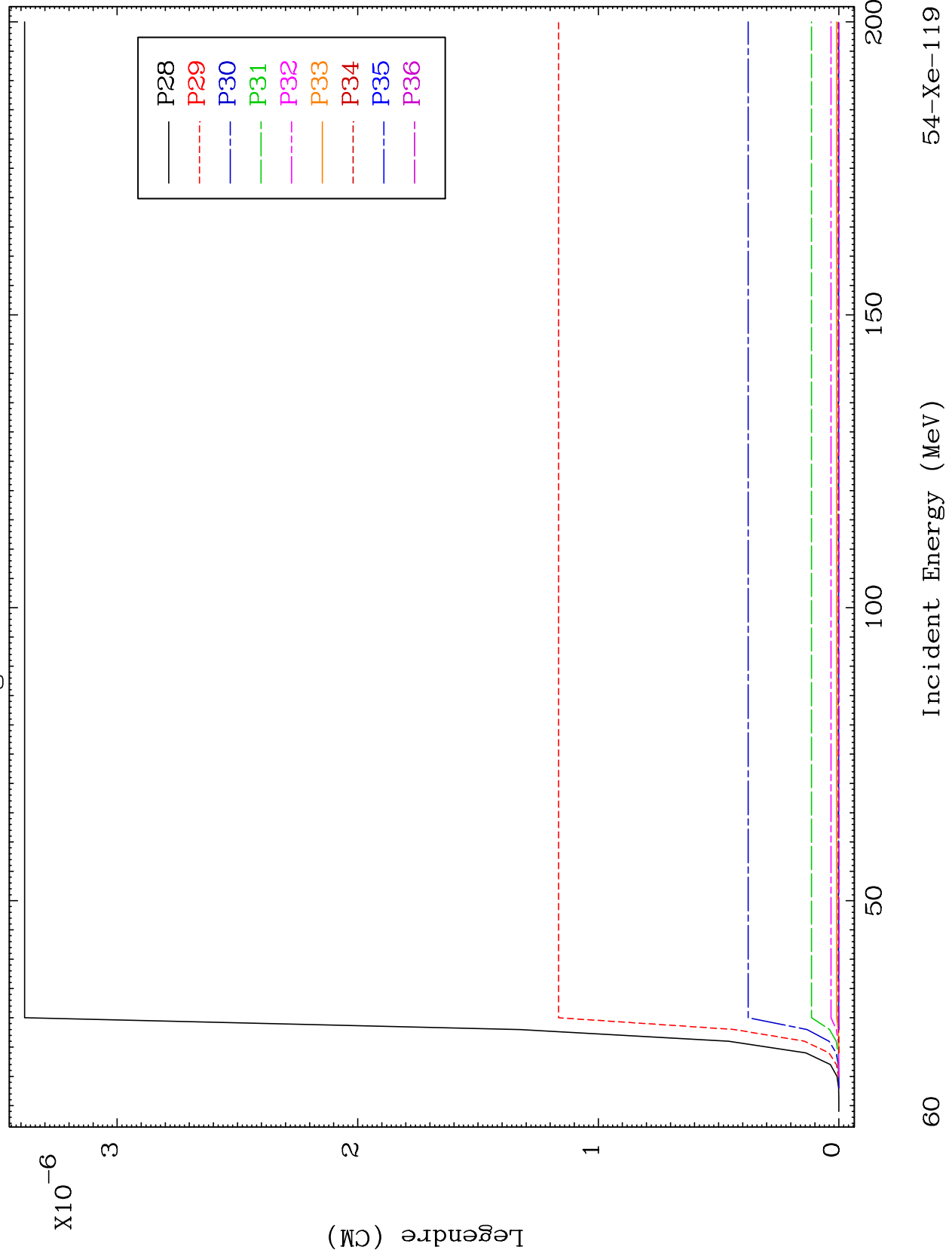
Incident Energy (MeV)

54-Xe-119

MAT 5410

390.3 keV (n,n') Level  
Legendre Coefficients

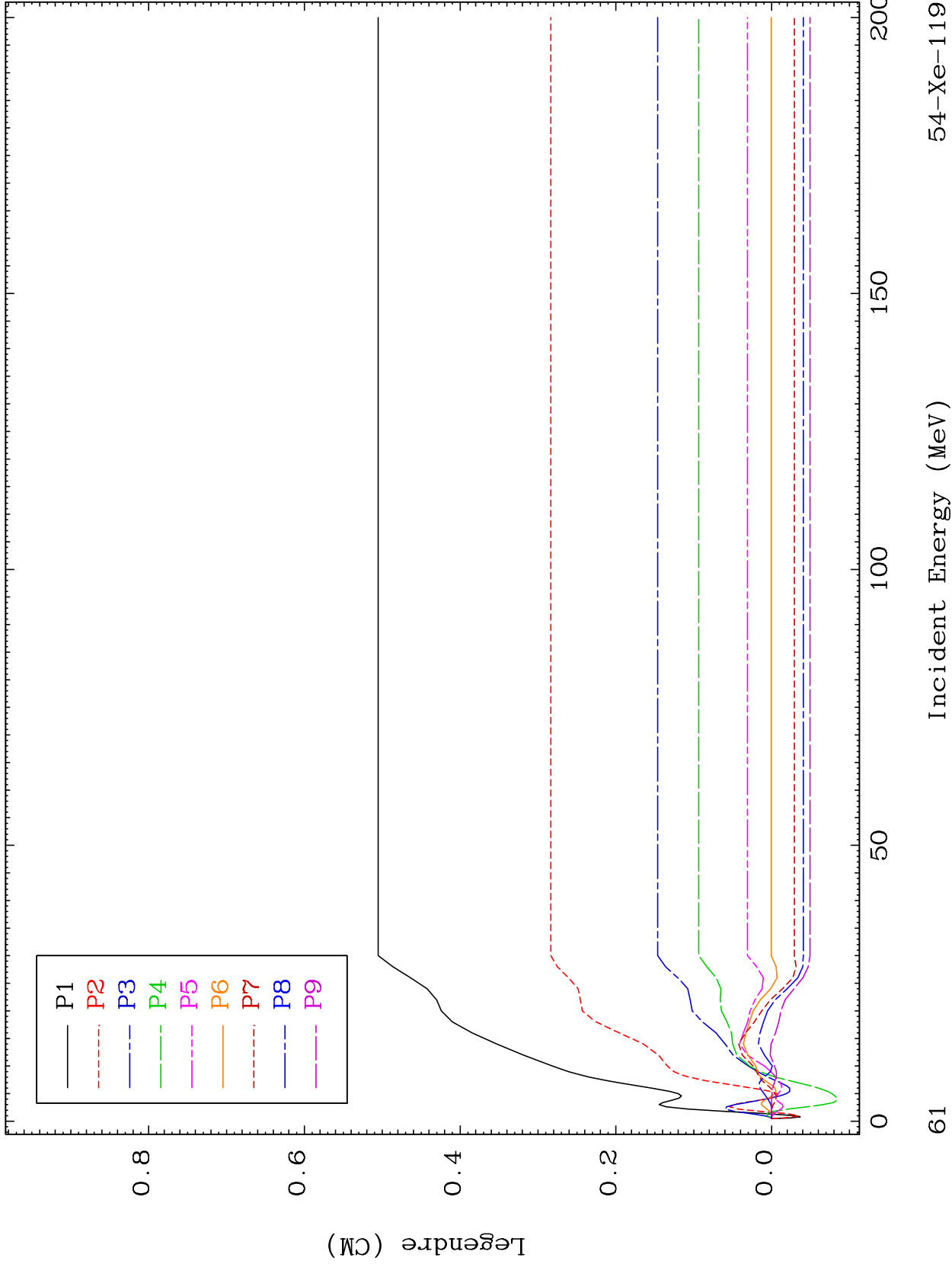
54-Xe-119



MAT 5410

459.4 keV (n,n') Level  
Legendre Coefficients

54-Xe-119



61

Incident Energy (MeV)

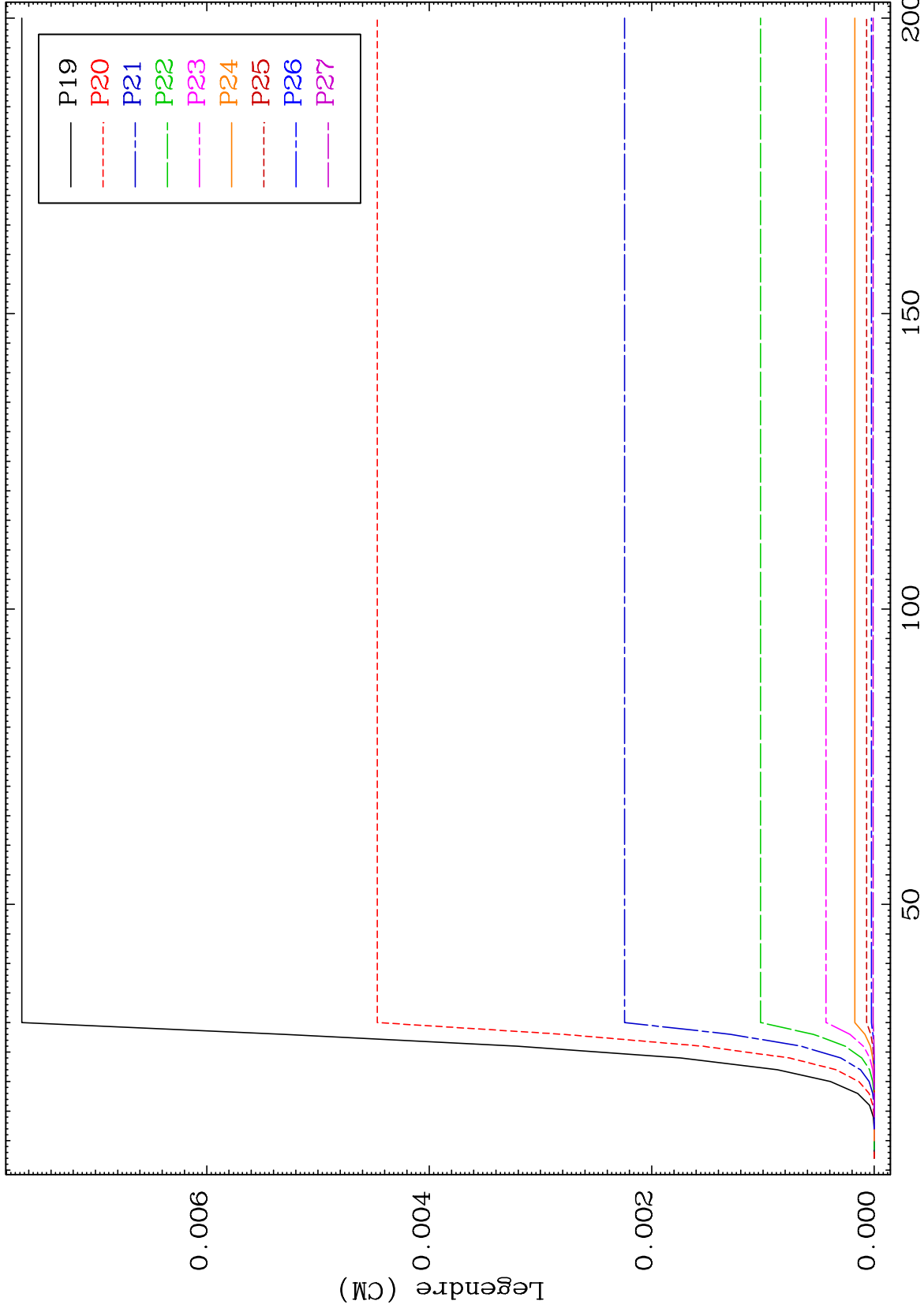
54-Xe-119



MAT 5410

459.4 keV (n,n') Level  
Legendre Coefficients

54-Xe-119



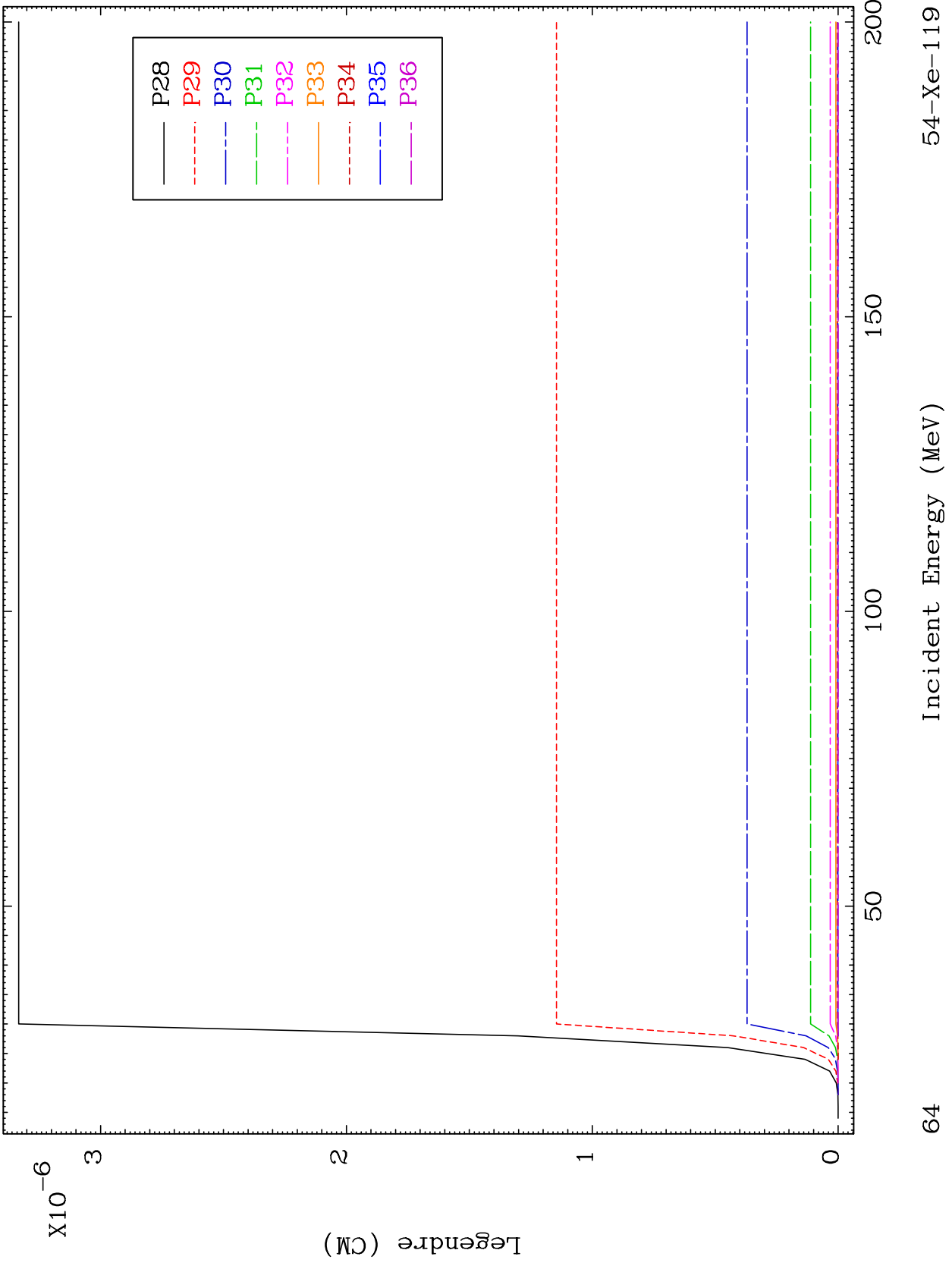
63

Incident Energy (MeV)

54-Xe-119



MAT 5410 459.4 keV (n,n') Level Legendre Coefficients 54-Xe-119

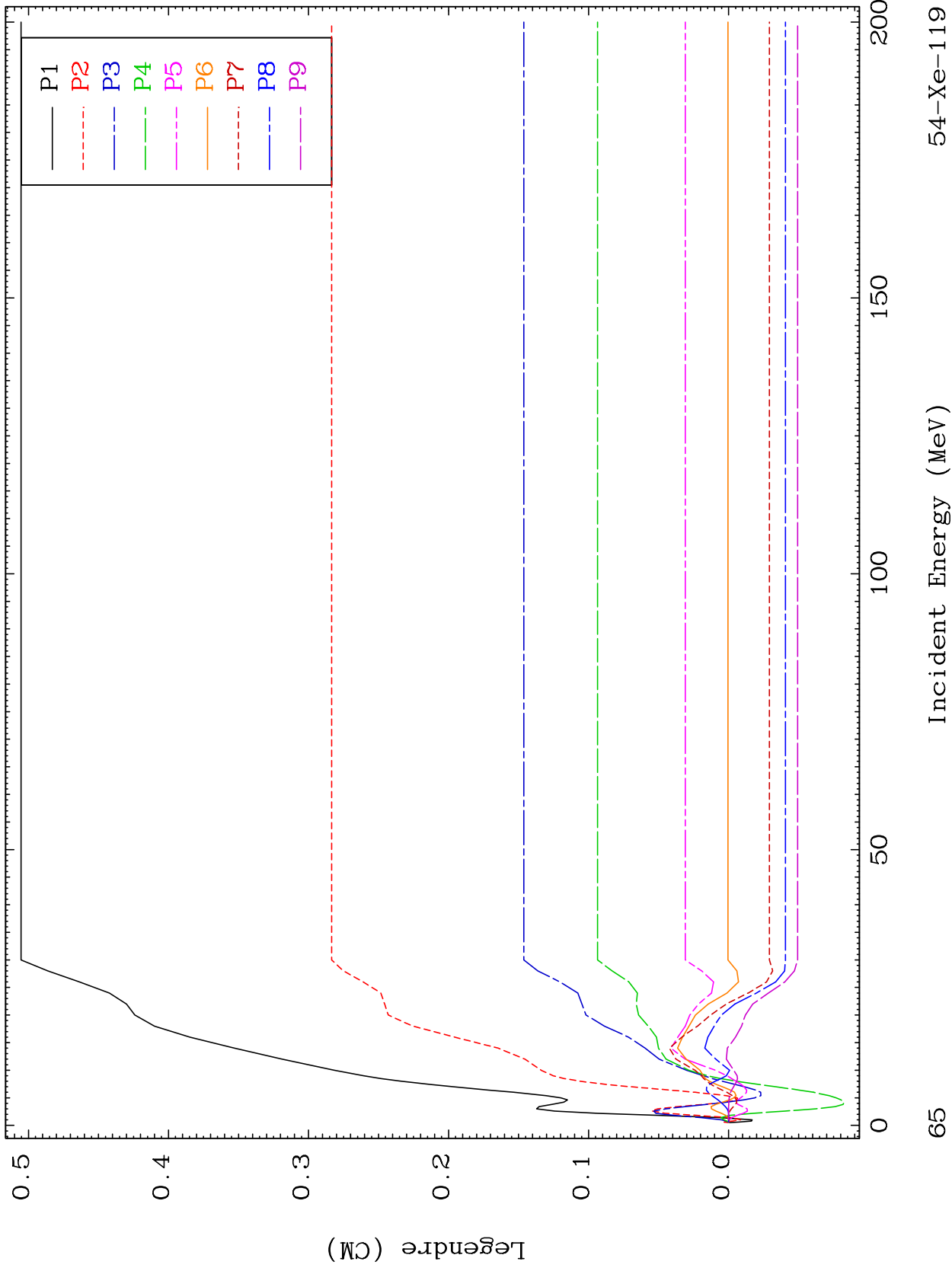


64 54-Xe-119

MAT 5410

475.9 keV (n, n') Level  
Legendre Coefficients

54-Xe-119



54-Xe-119

Incident Energy (MeV)

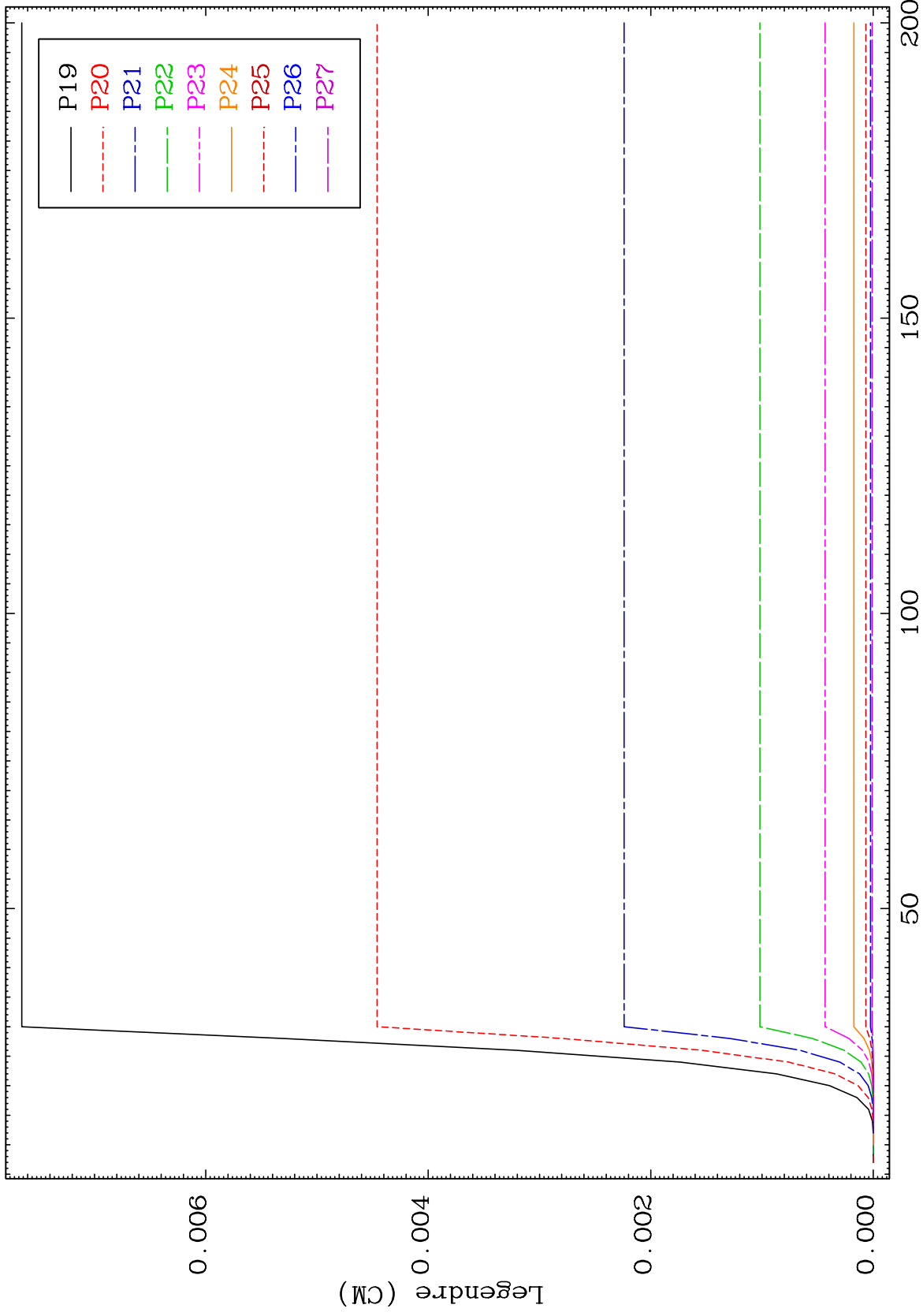
65



MAT 5410

475.9 keV (n,n') Level  
Legendre Coefficients

54-Xe-119



67

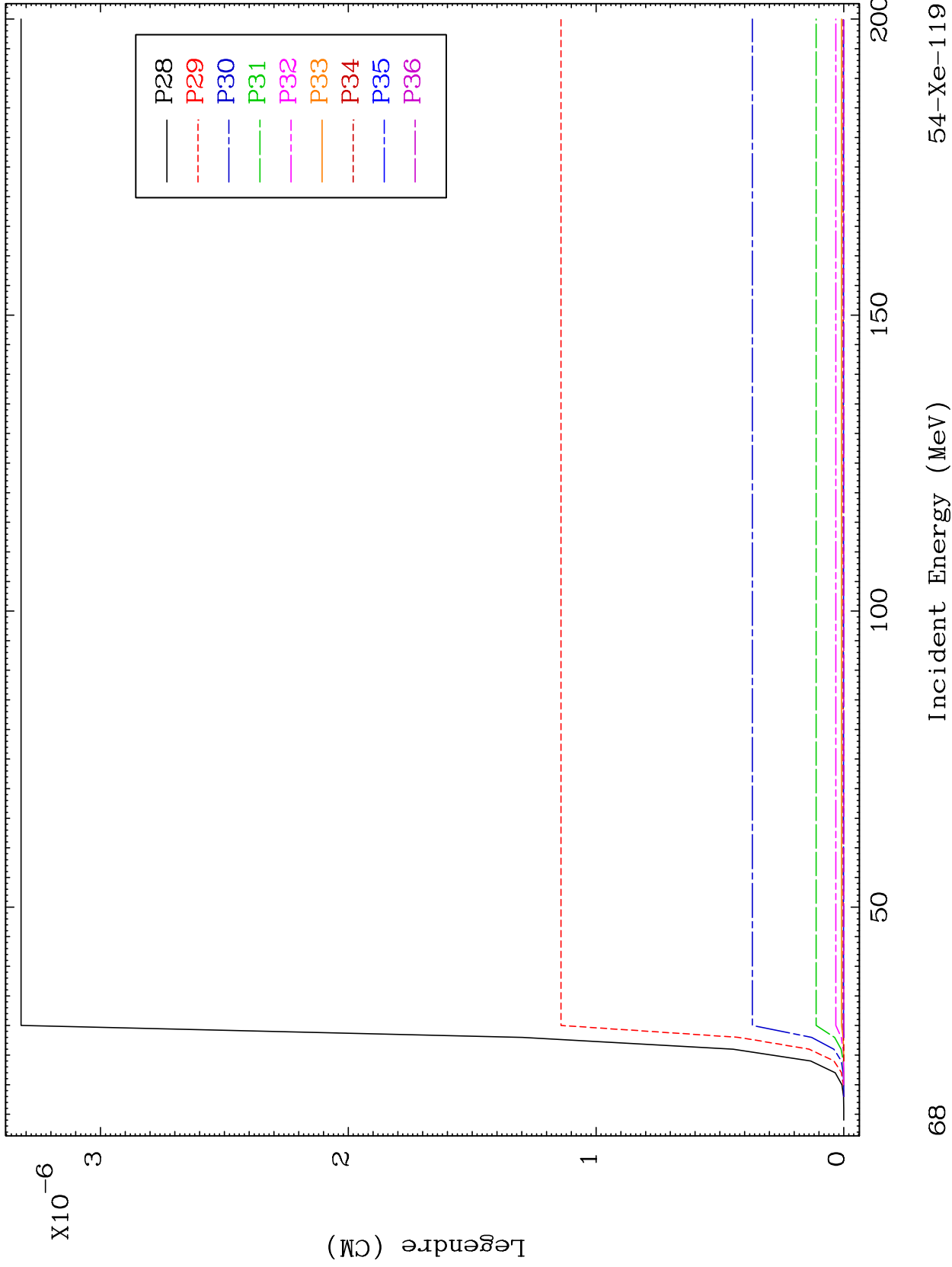
Incident Energy (MeV)

54-Xe-119

MAT 5410

475.9 keV (n,n') Level  
Legendre Coefficients

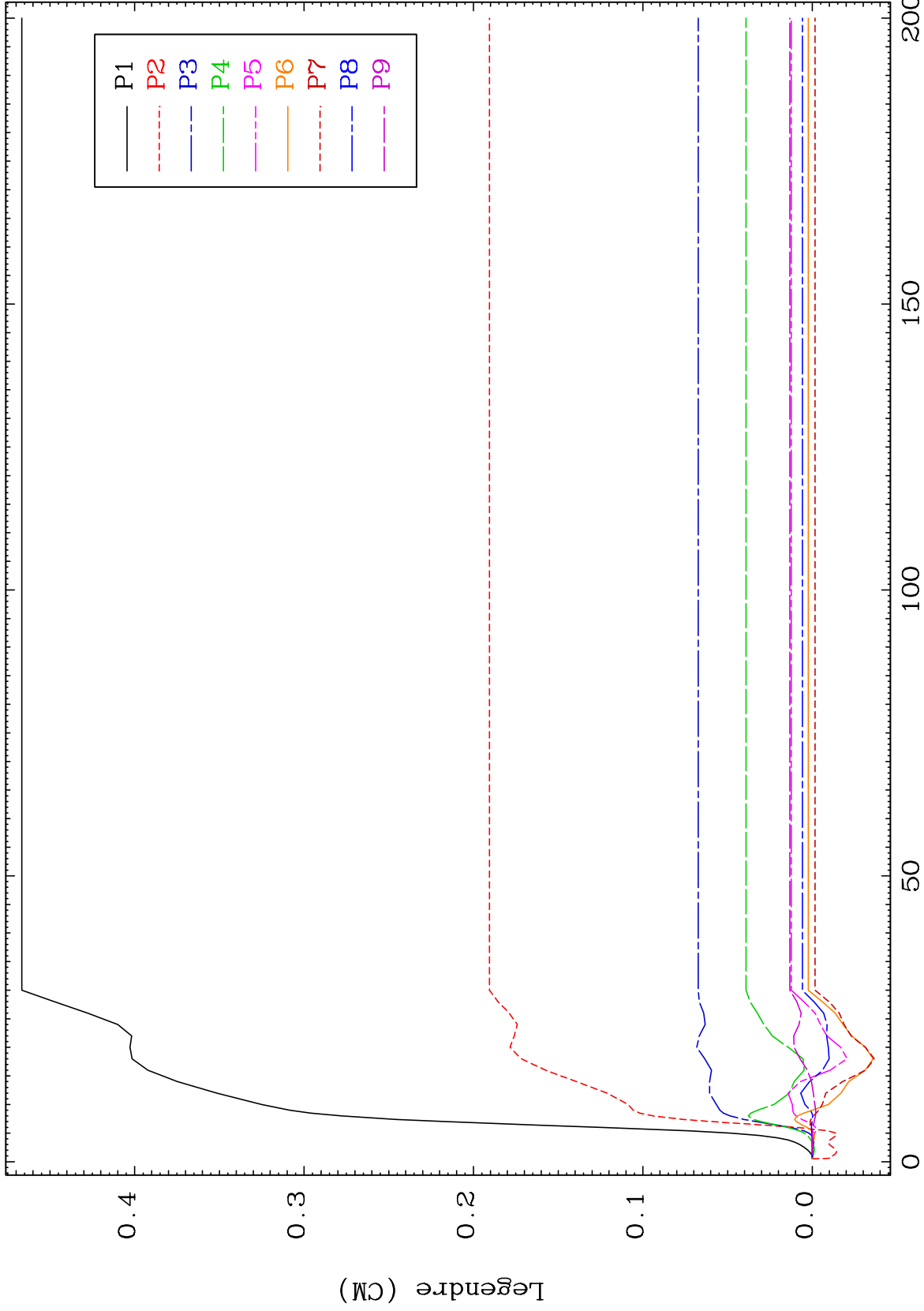
54-Xe-119



68

Incident Energy (MeV)

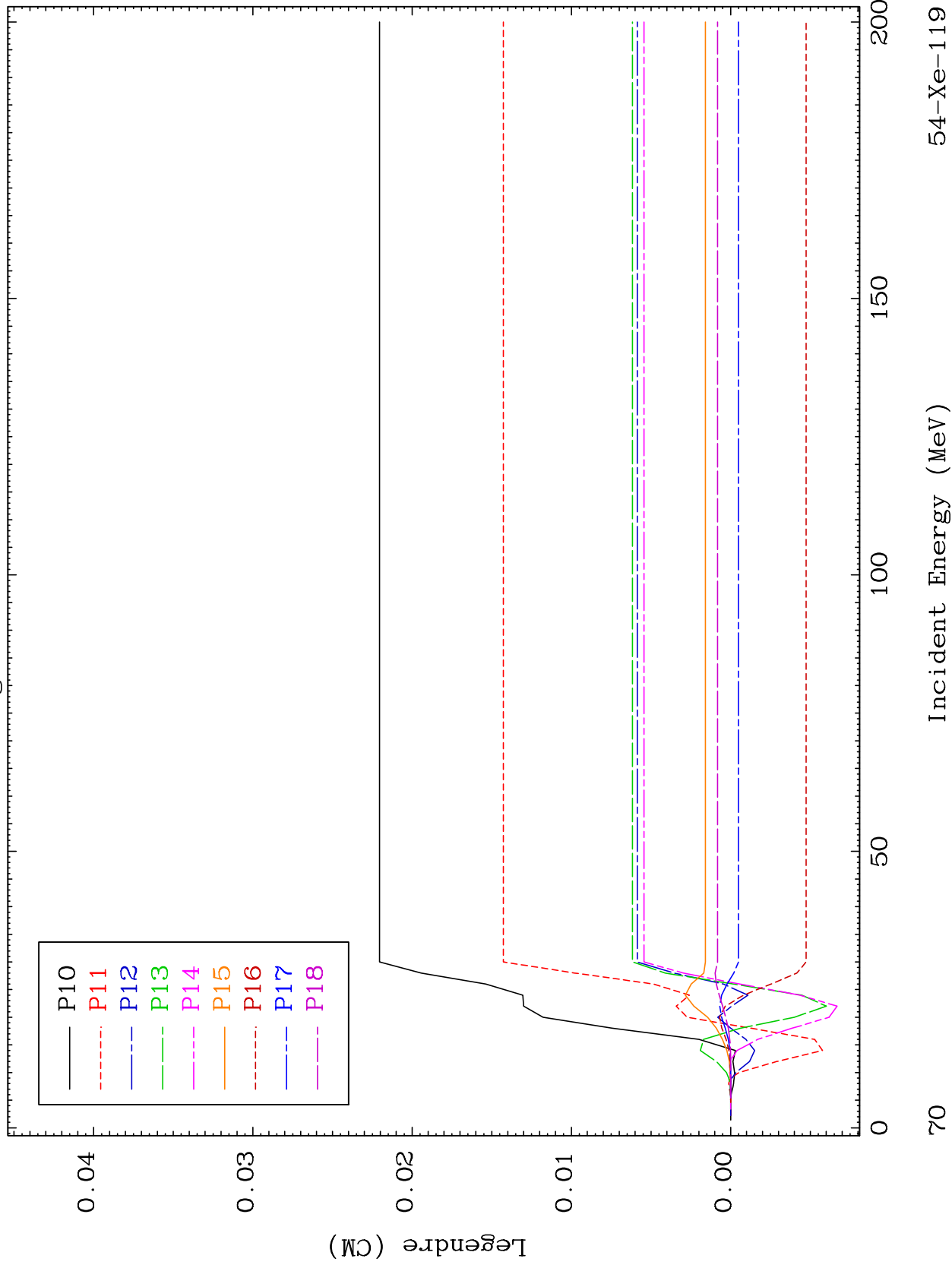
54-Xe-119



MAT 5410

484.3 keV (n, n') Level  
Legendre Coefficients

54-Xe-119



54-Xe-119

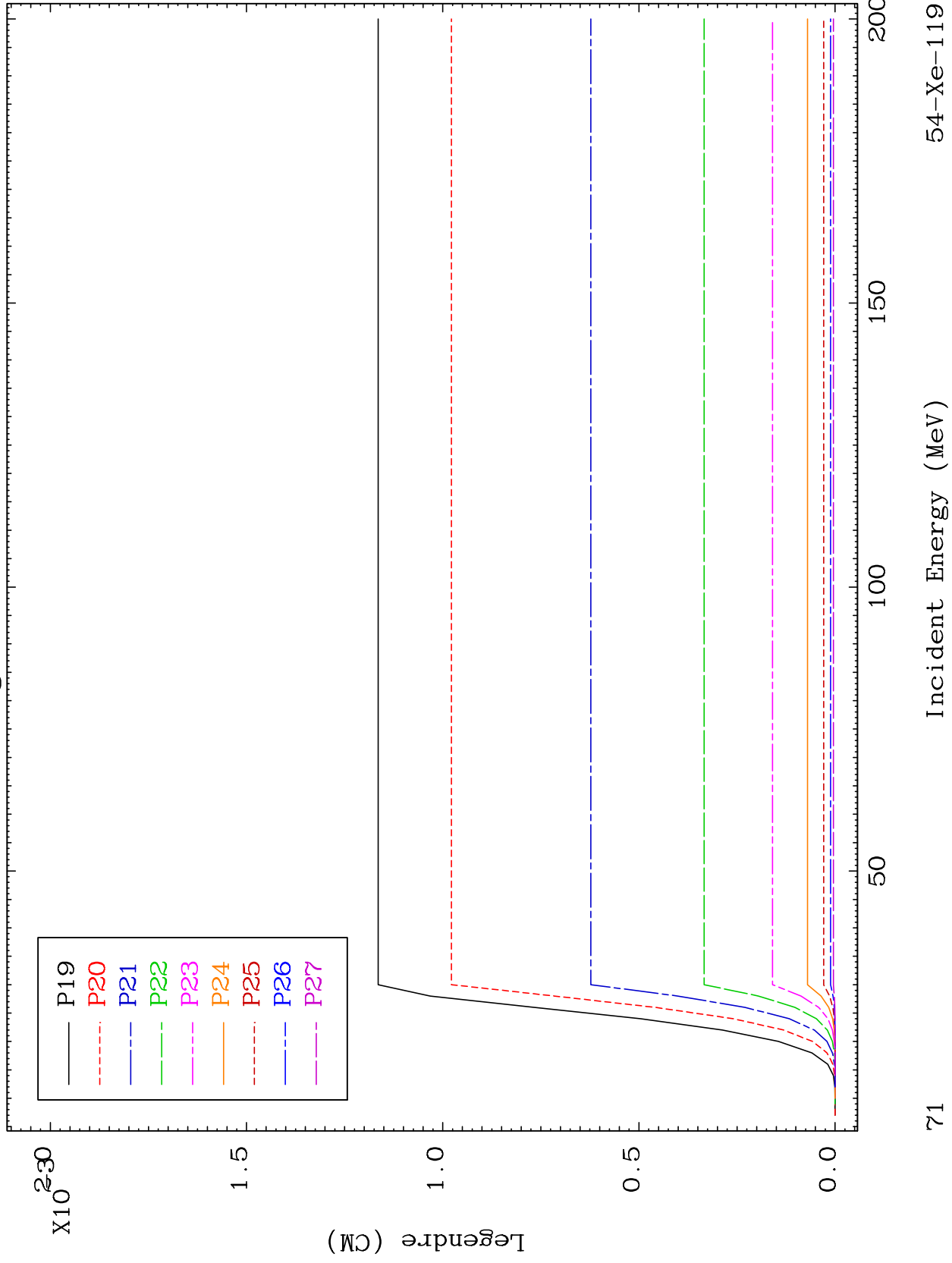
Incident Energy (MeV)

70

MAT 5410

484.3 keV (n,n') Level  
Legendre Coefficients

54-Xe-119

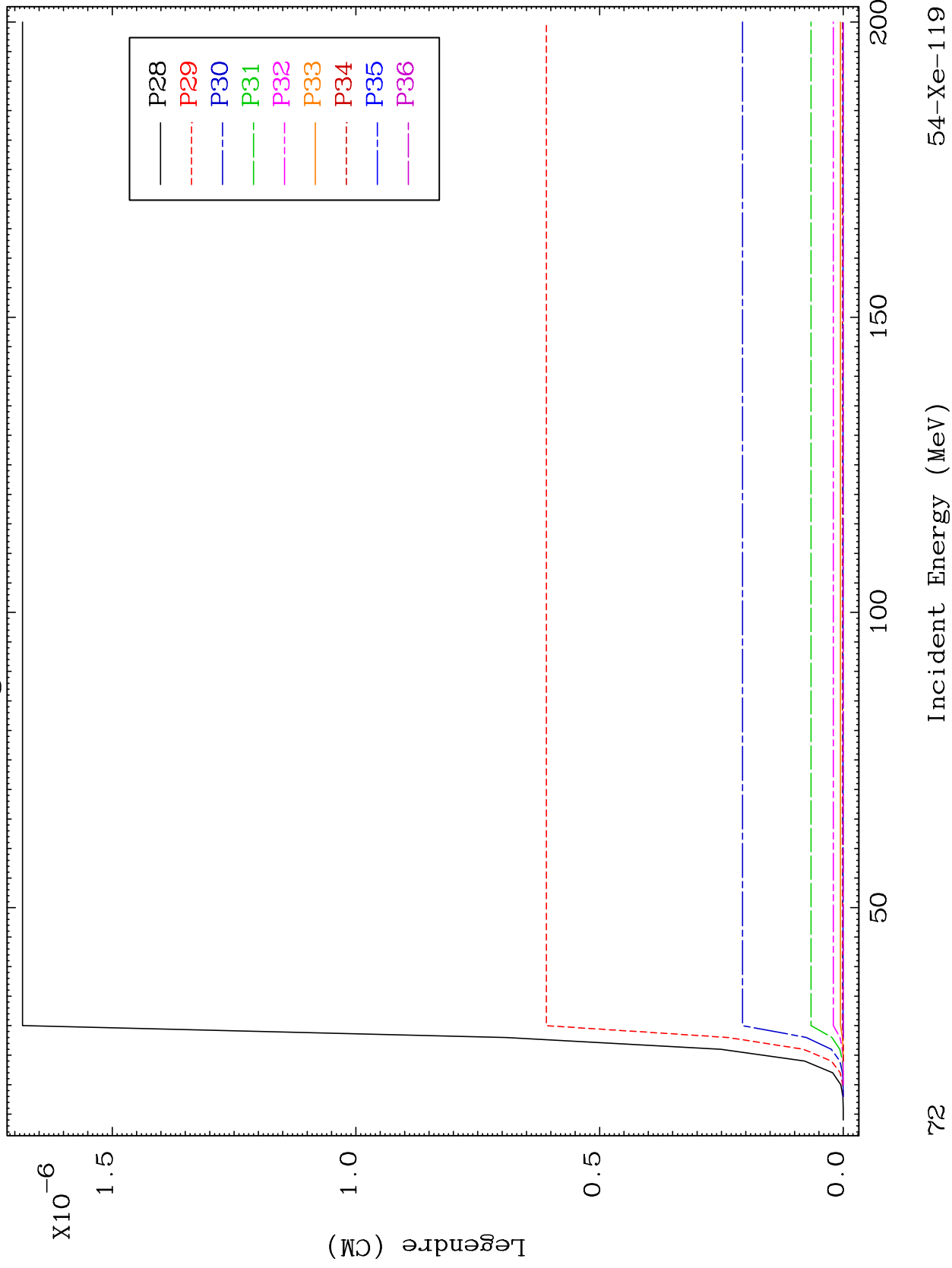




MAT 5410

484.3 keV (n,n') Level  
Legendre Coefficients

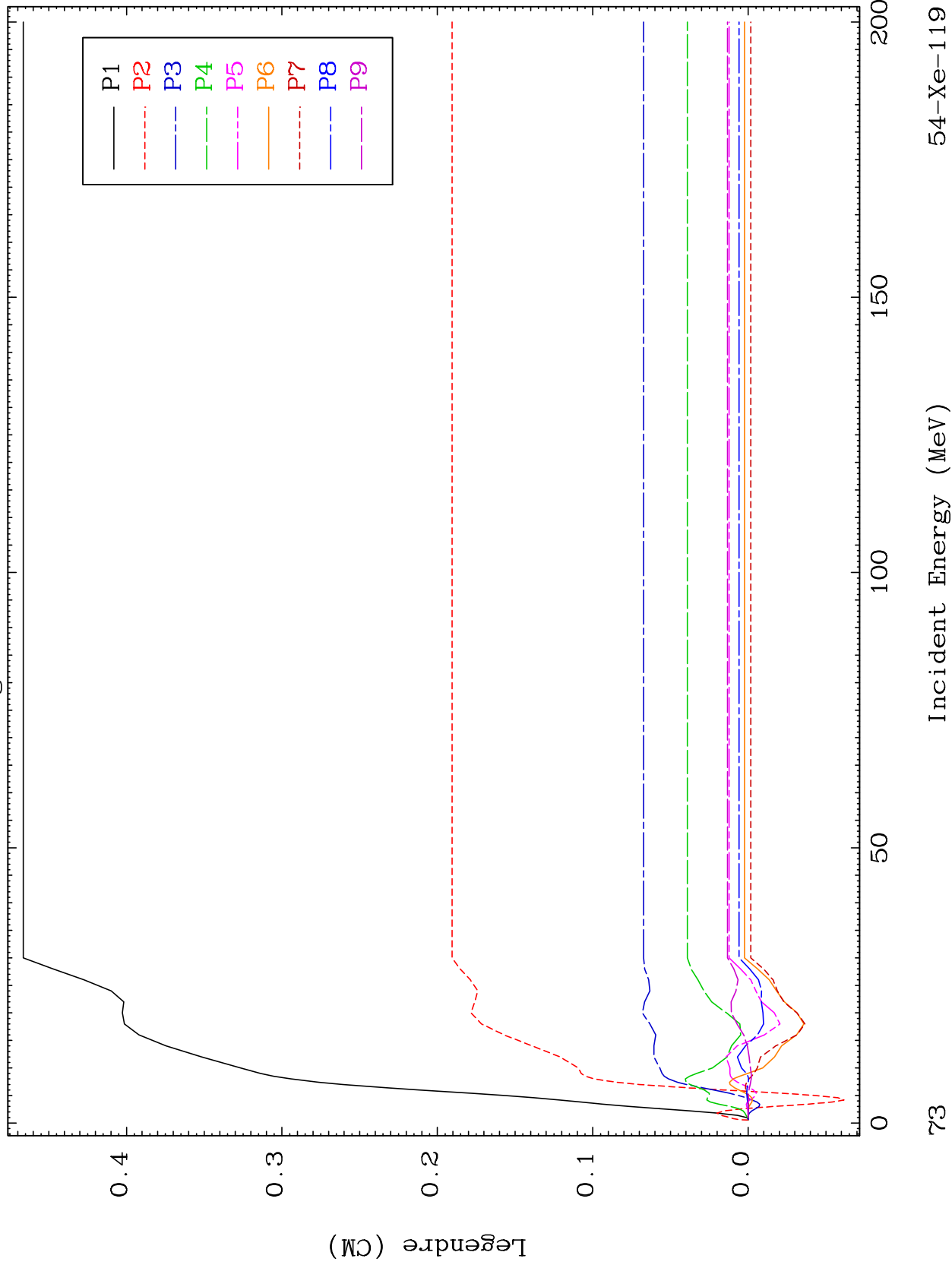
54-Xe-119



MAT 5410

524.4 keV (n,n') Level  
Legendre Coefficients

54-Xe-119



73

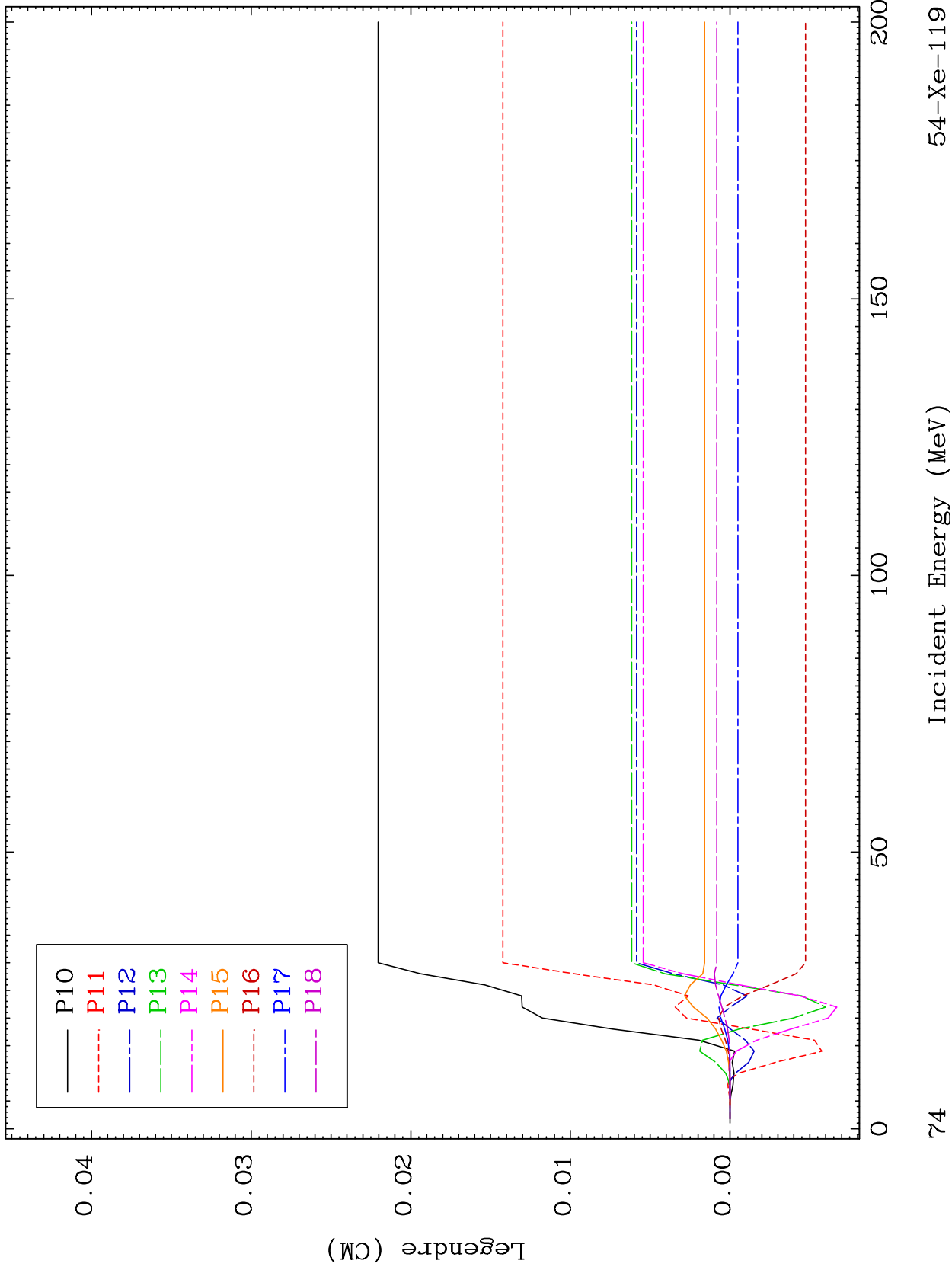
Incident Energy (MeV)

54-Xe-119

MAT 5410

524.4 keV (n,n') Level  
Legendre Coefficients

54-Xe-119



74

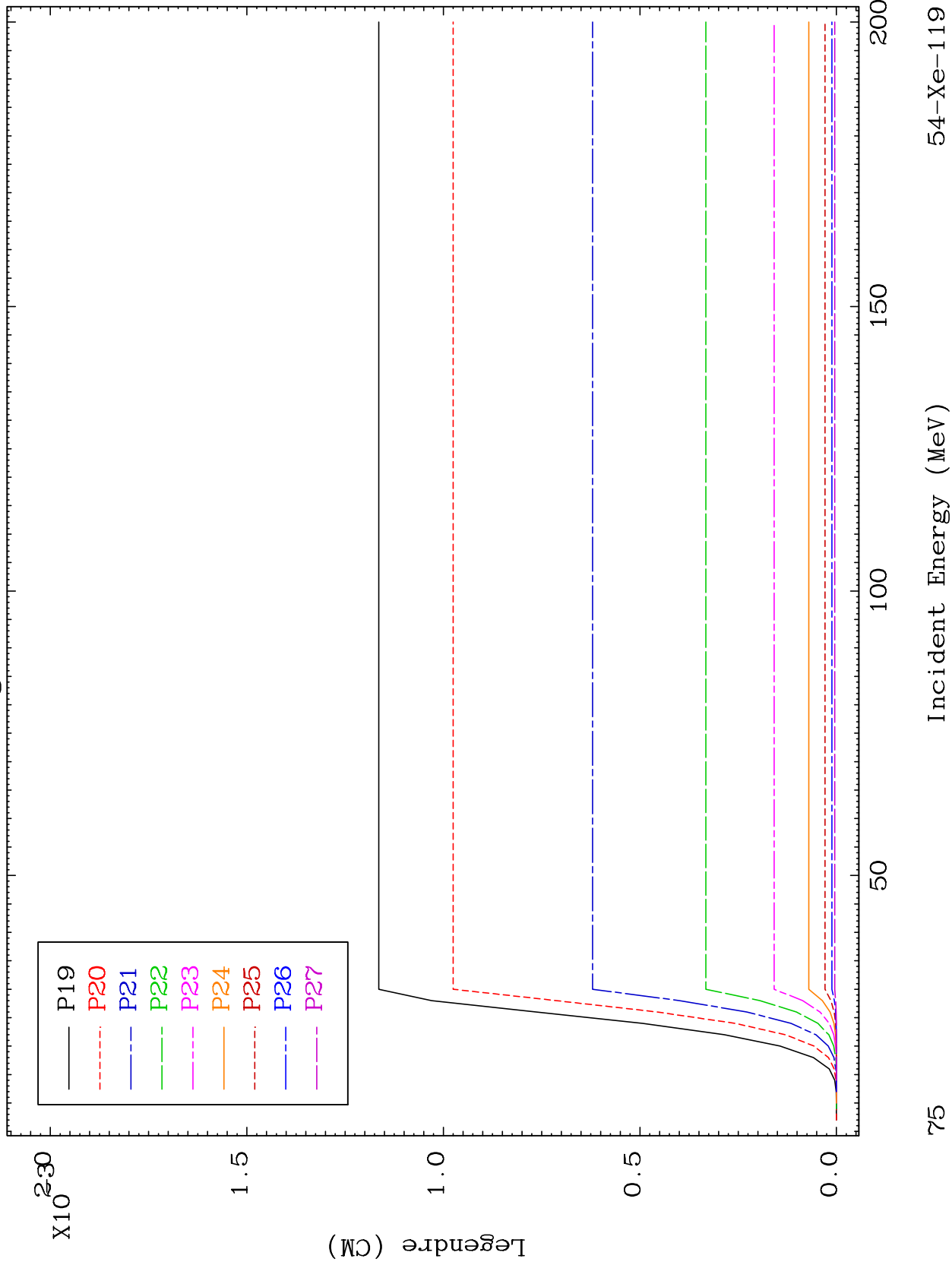
Incident Energy (MeV)

54-Xe-119

MAT 5410

524.4 keV (n,n') Level  
Legendre Coefficients

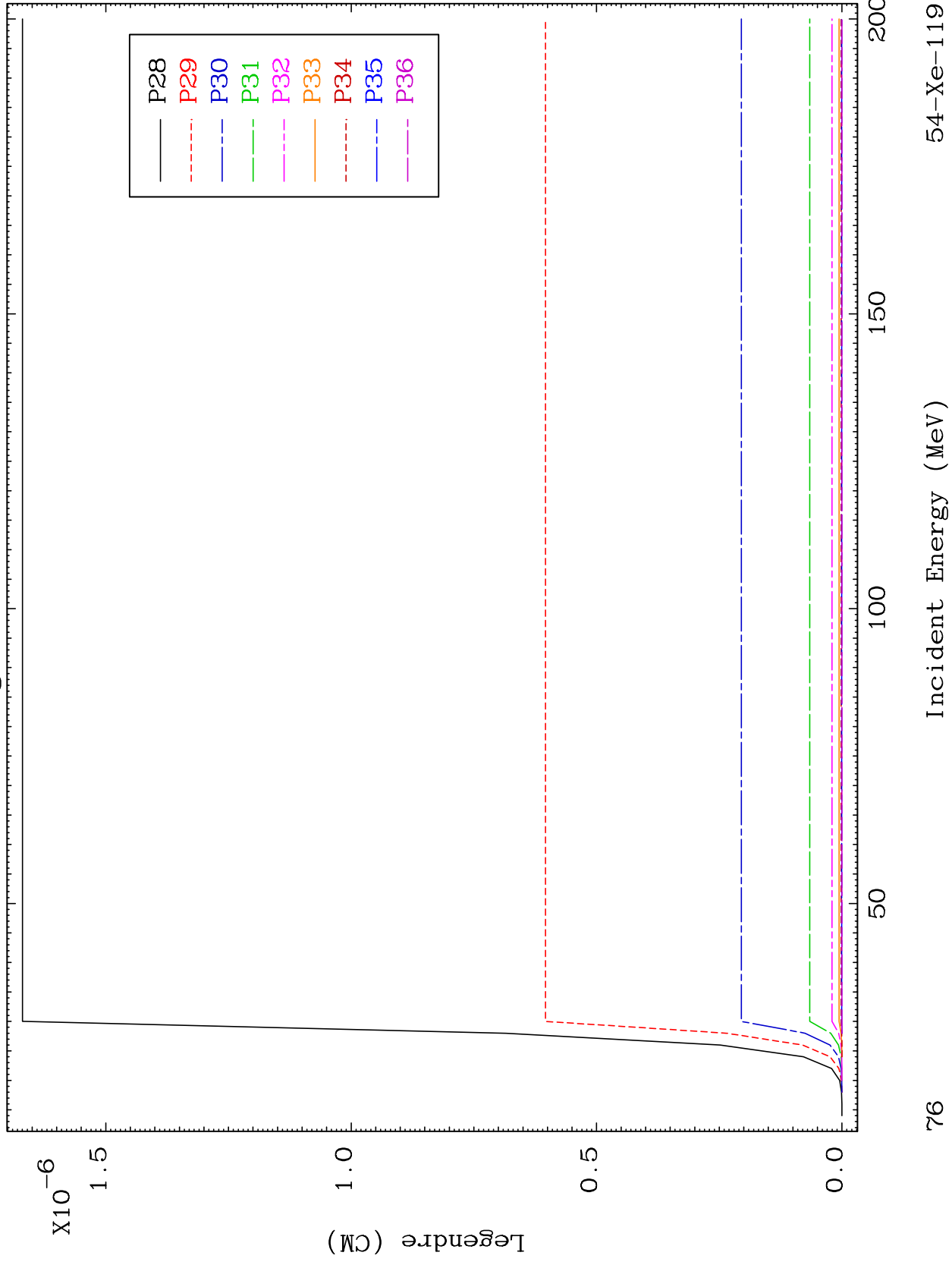
54-Xe-119



MAT 5410

524.4 keV (n,n') Level  
Legendre Coefficients

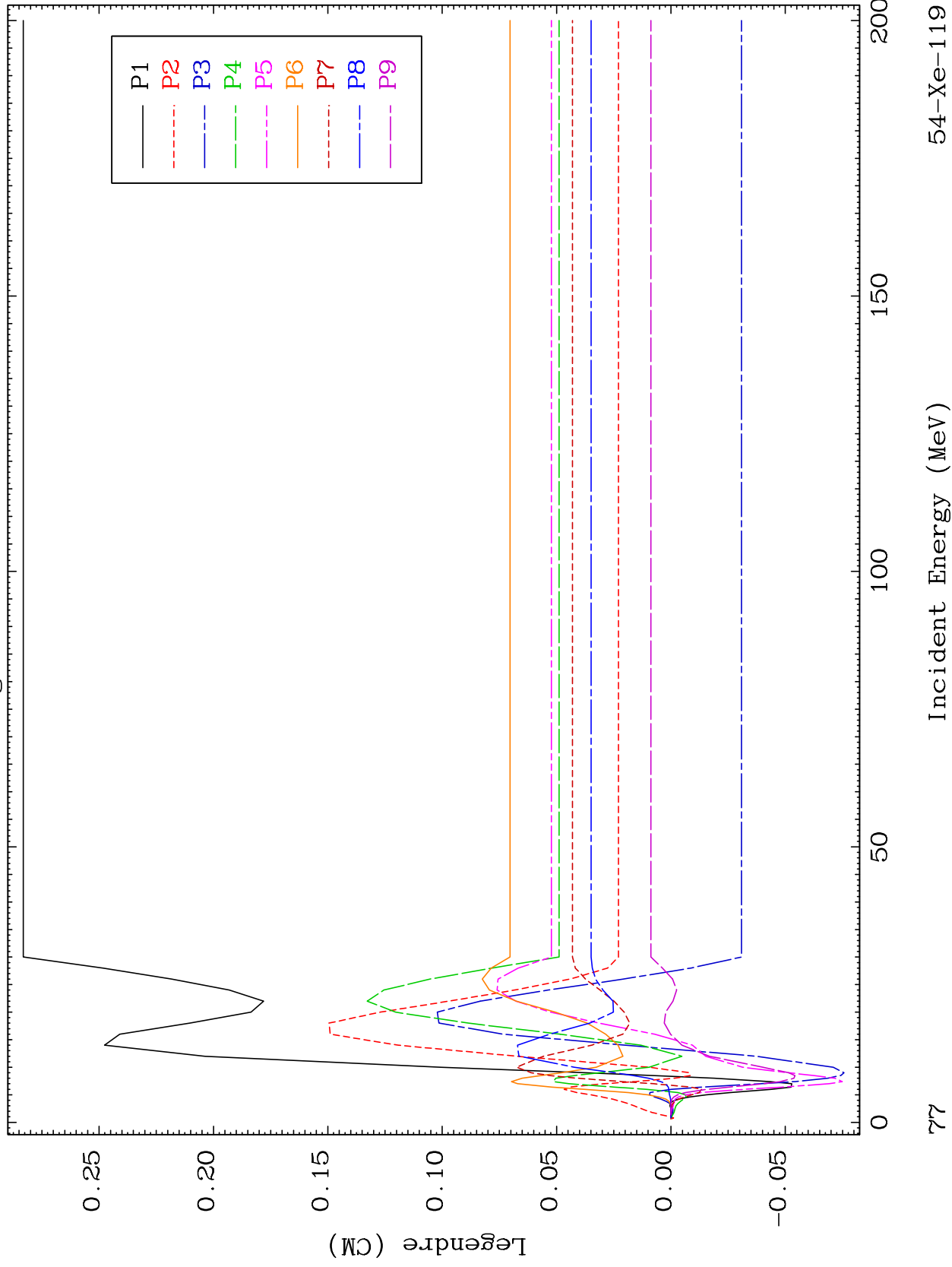
54-Xe-119



MAT 5410

593.0 keV (n,n') Level  
Legendre Coefficients

54-Xe-119



54-Xe-119

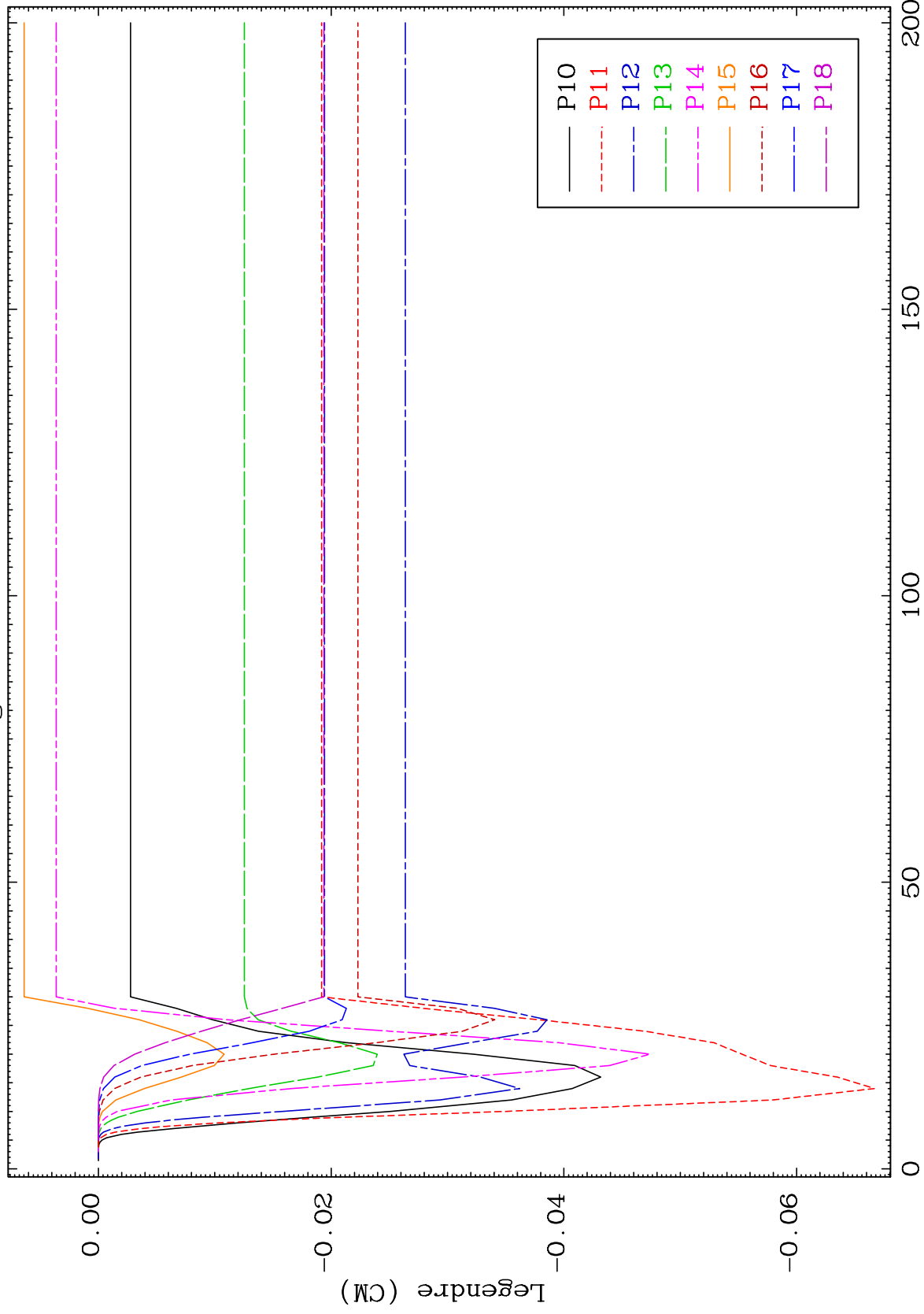
Incident Energy (MeV)

77

MAT 5410

593.0 keV (n,n') Level  
Legendre Coefficients

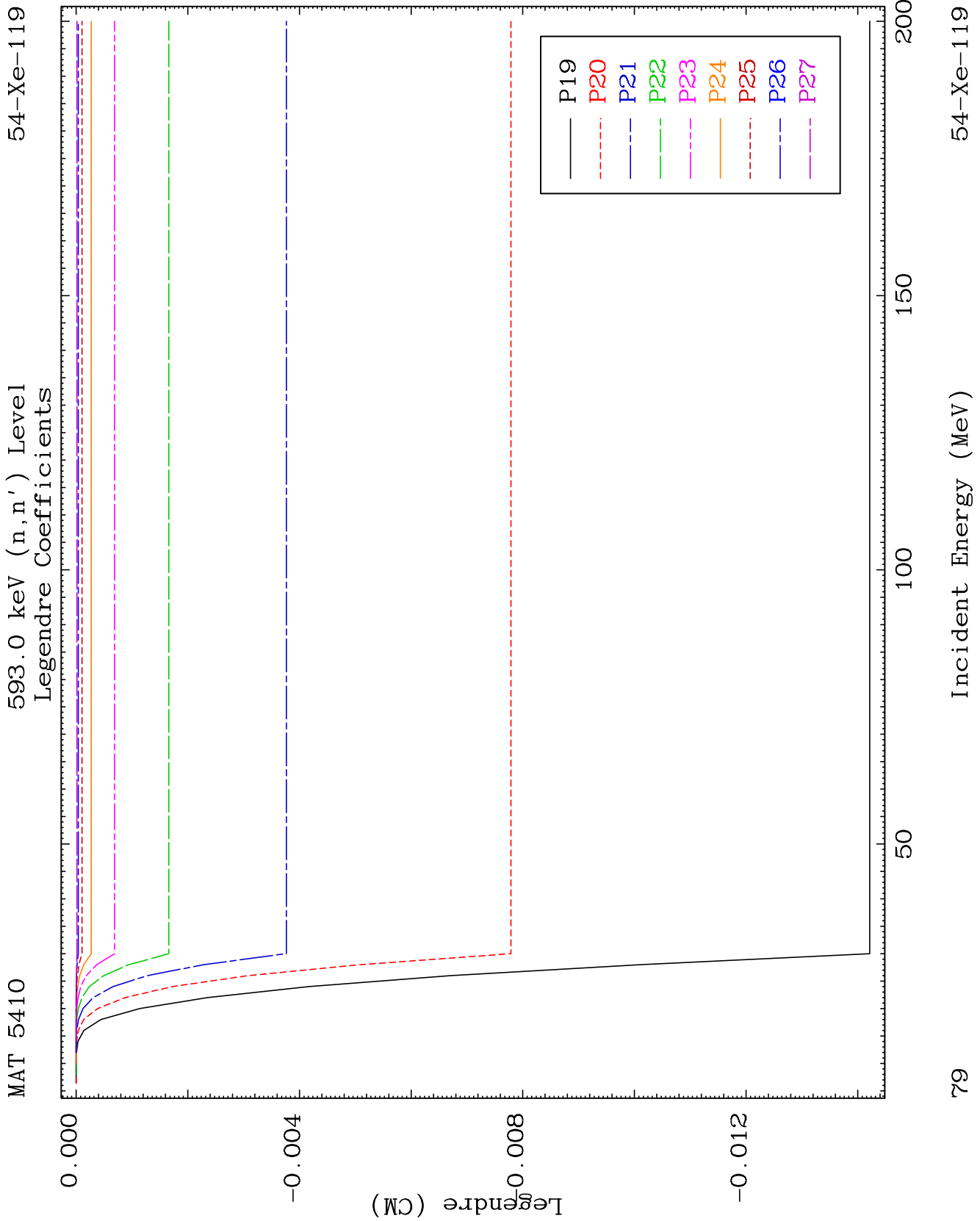
54-Xe-119



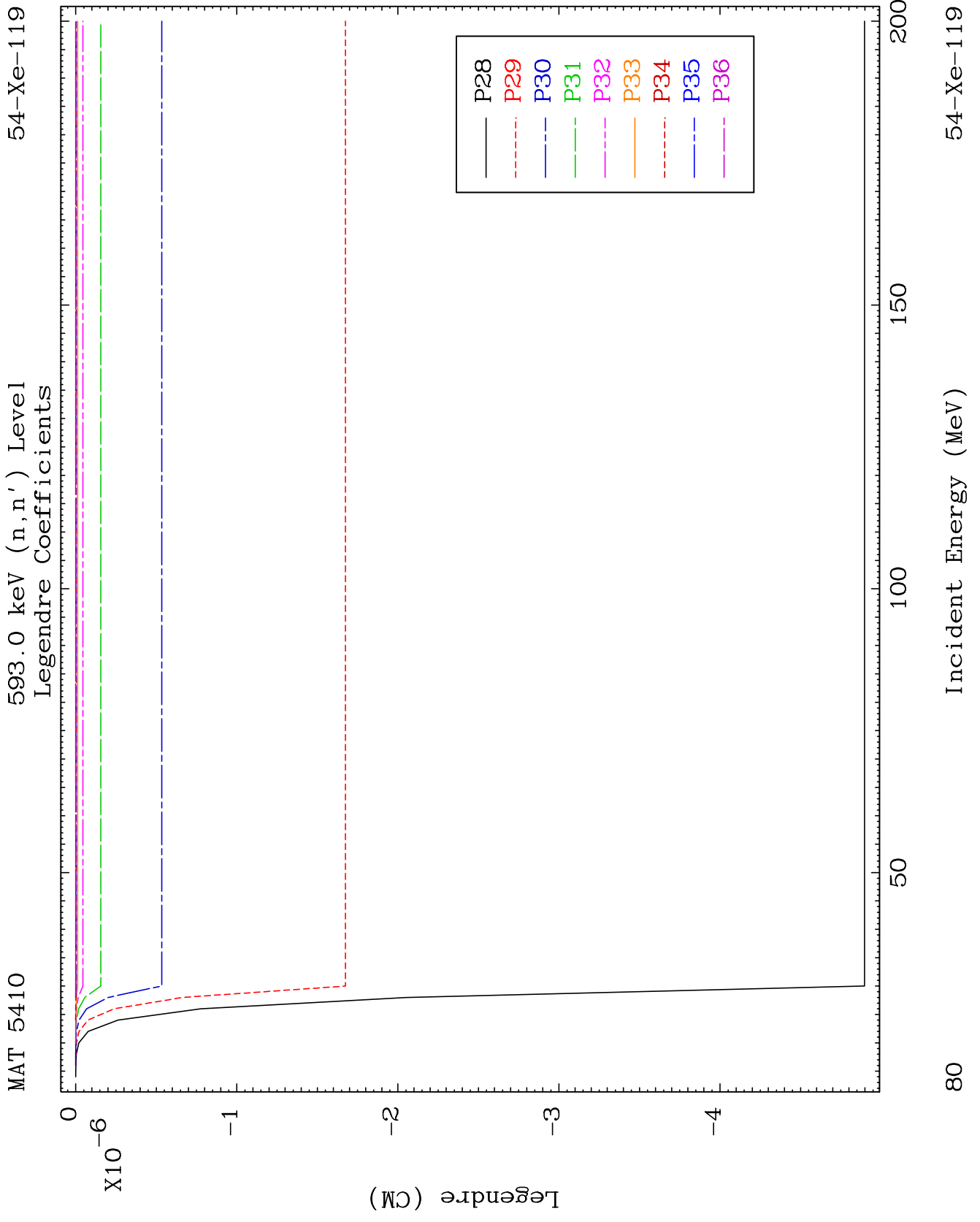
78

Incident Energy (MeV)

54-Xe-119



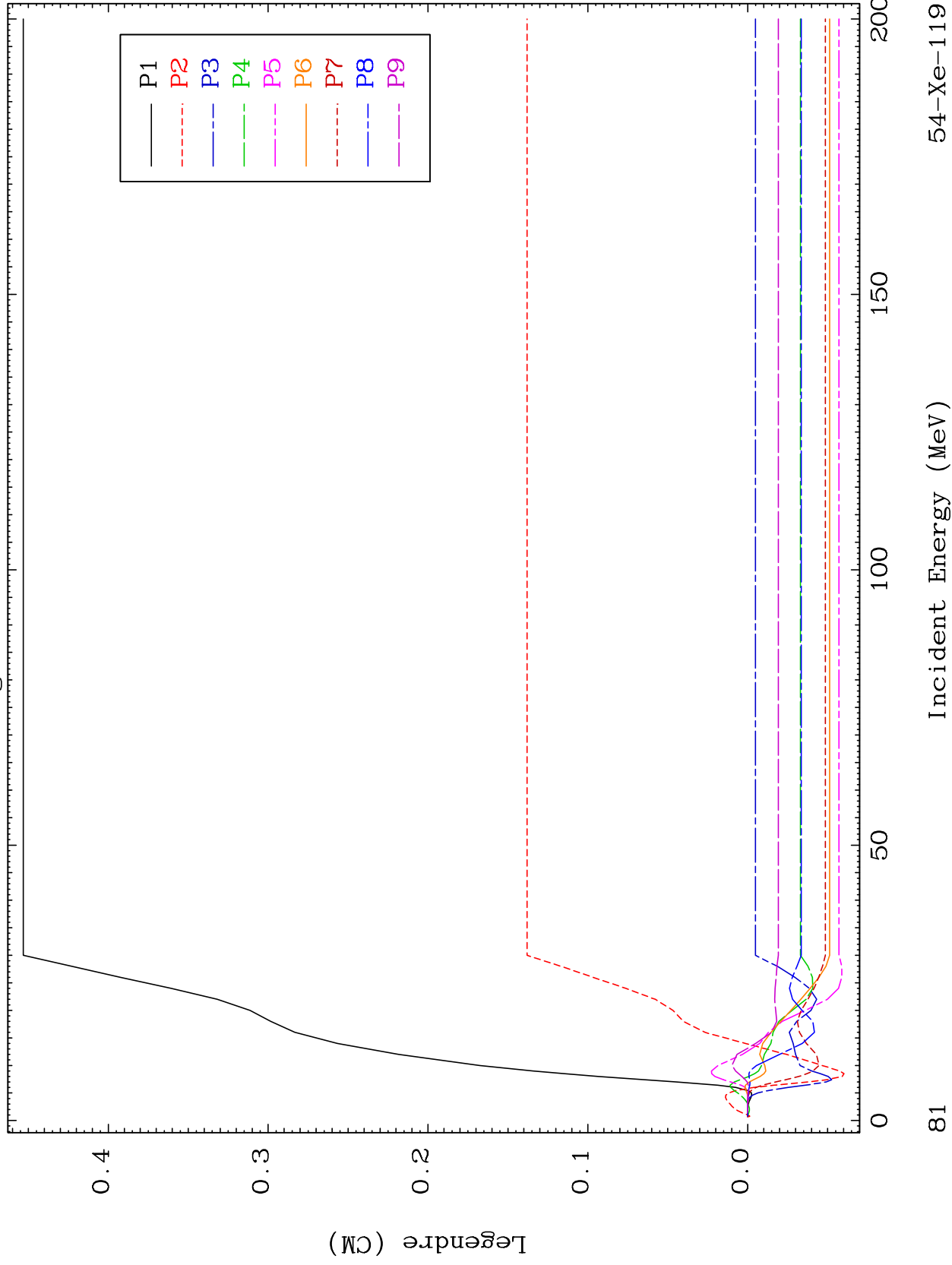




MAT 5410

618.9 keV (n,n') Level  
Legendre Coefficients

54-Xe-119



81

Incident Energy (MeV)

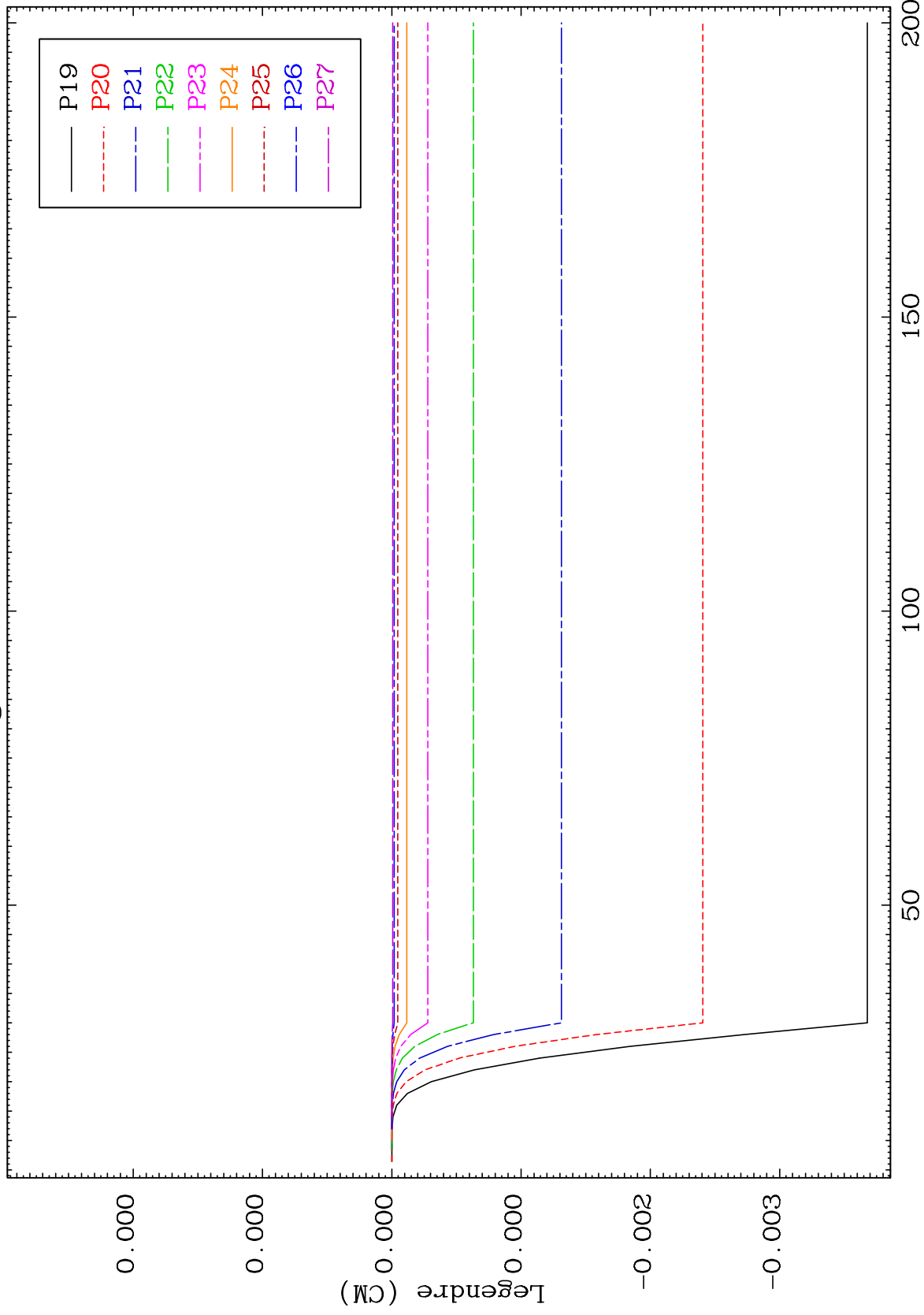
54-Xe-119

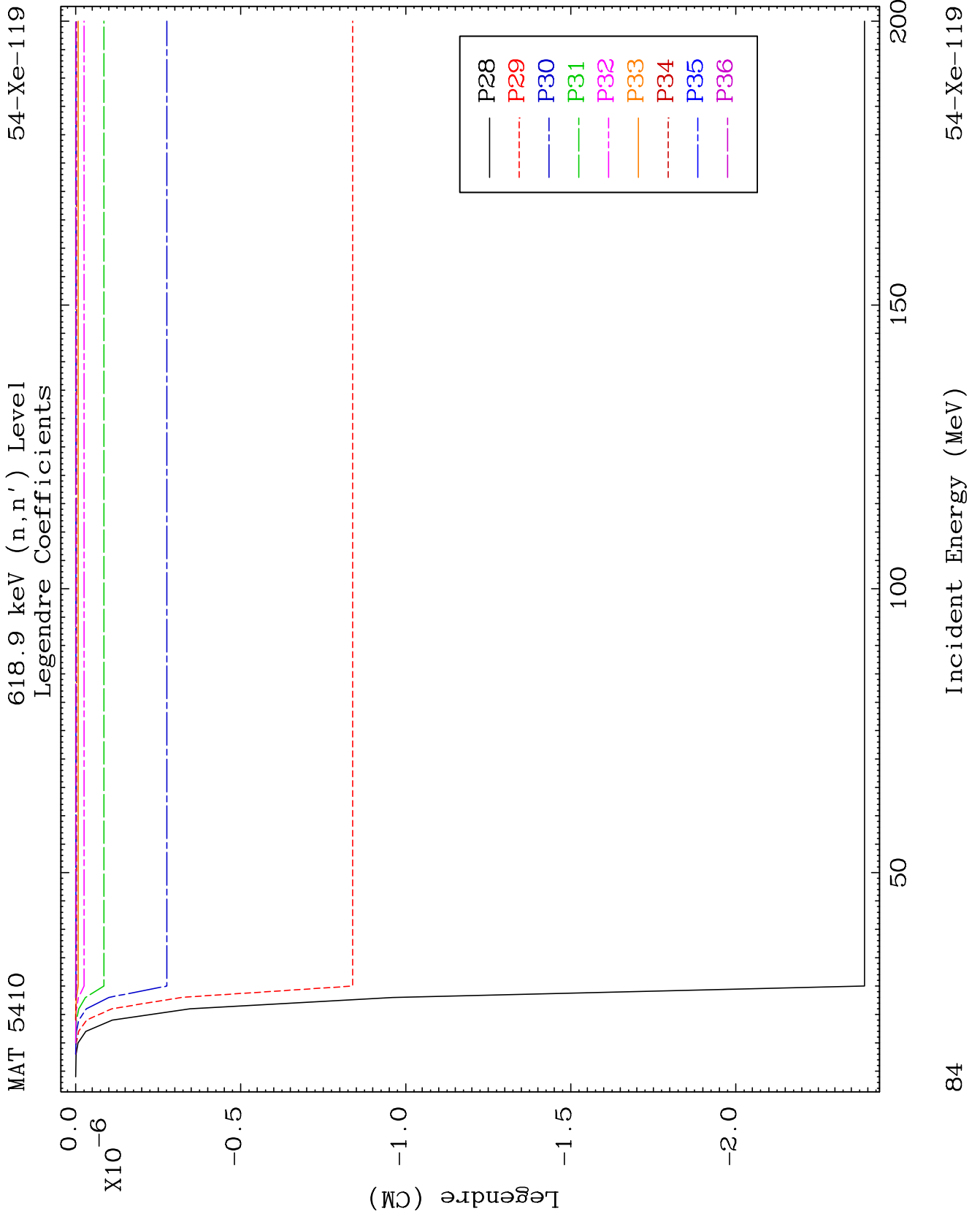


MAT 5410

618.9 keV (n,n') Level  
Legendre Coefficients

54-Xe-119

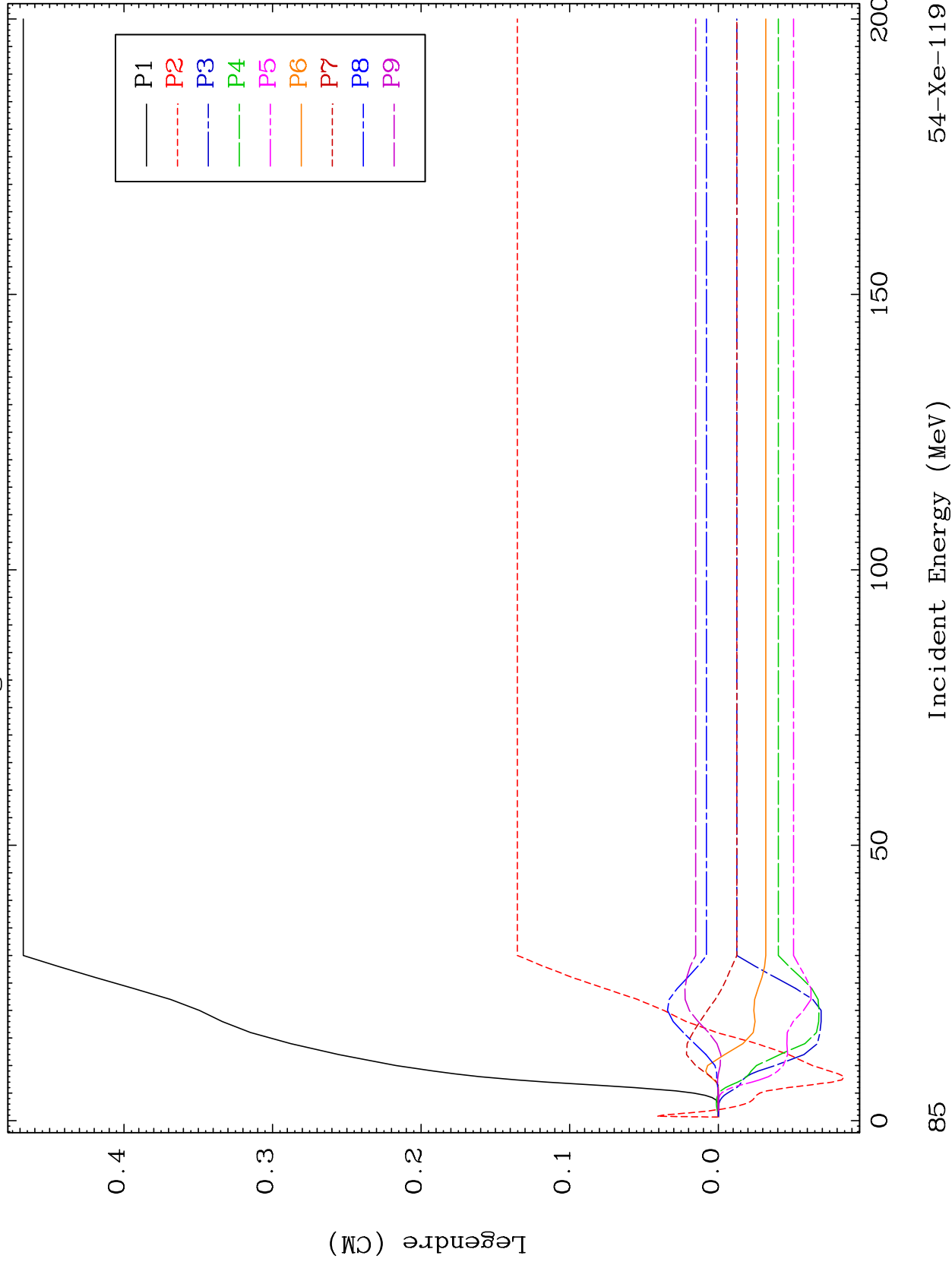




MAT 5410

645.1 keV (n,n') Level  
Legendre Coefficients

54-Xe-119



54-Xe-119

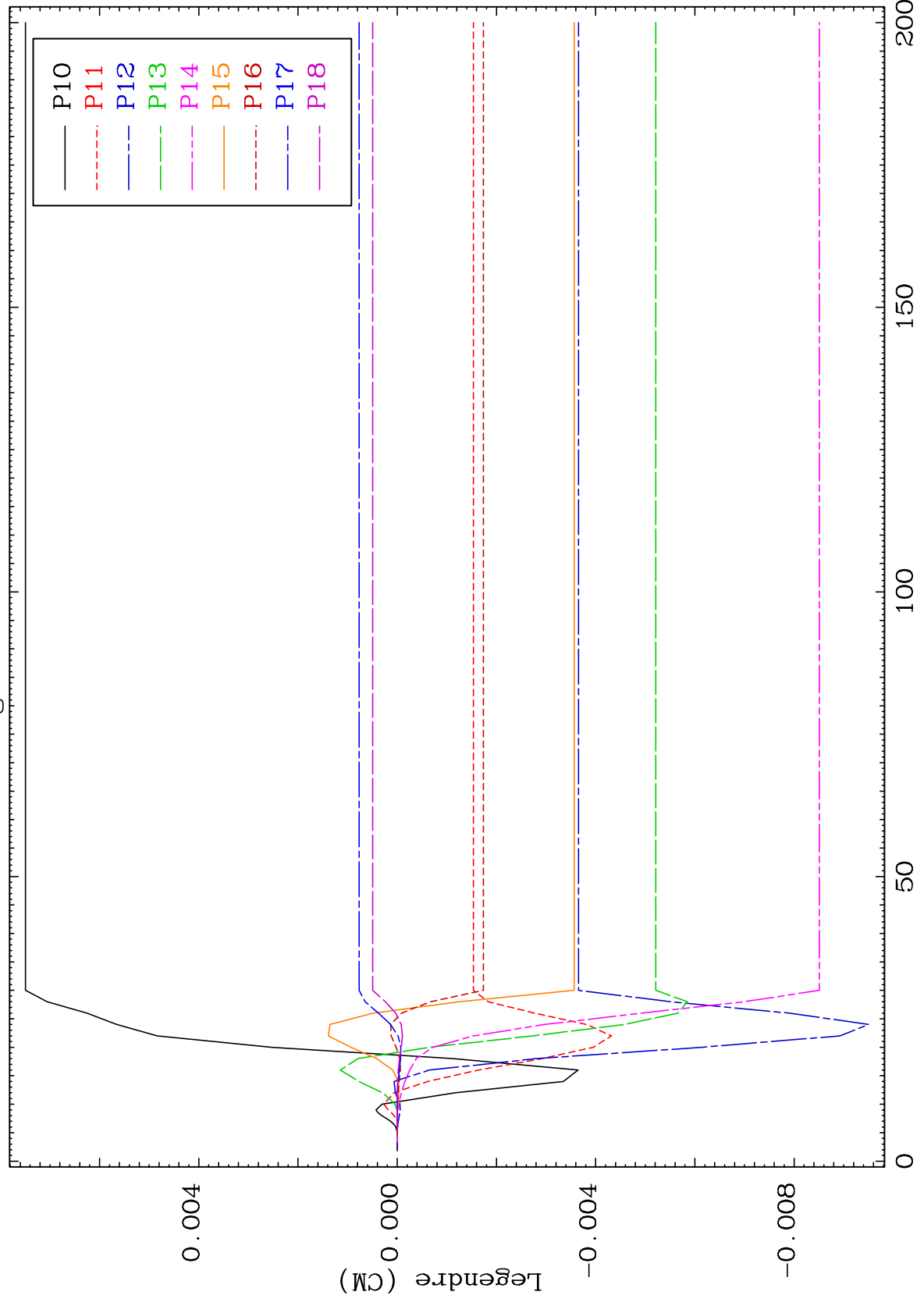
Incident Energy (MeV)

85

MAT 5410

645.1 keV (n,n') Level  
Legendre Coefficients

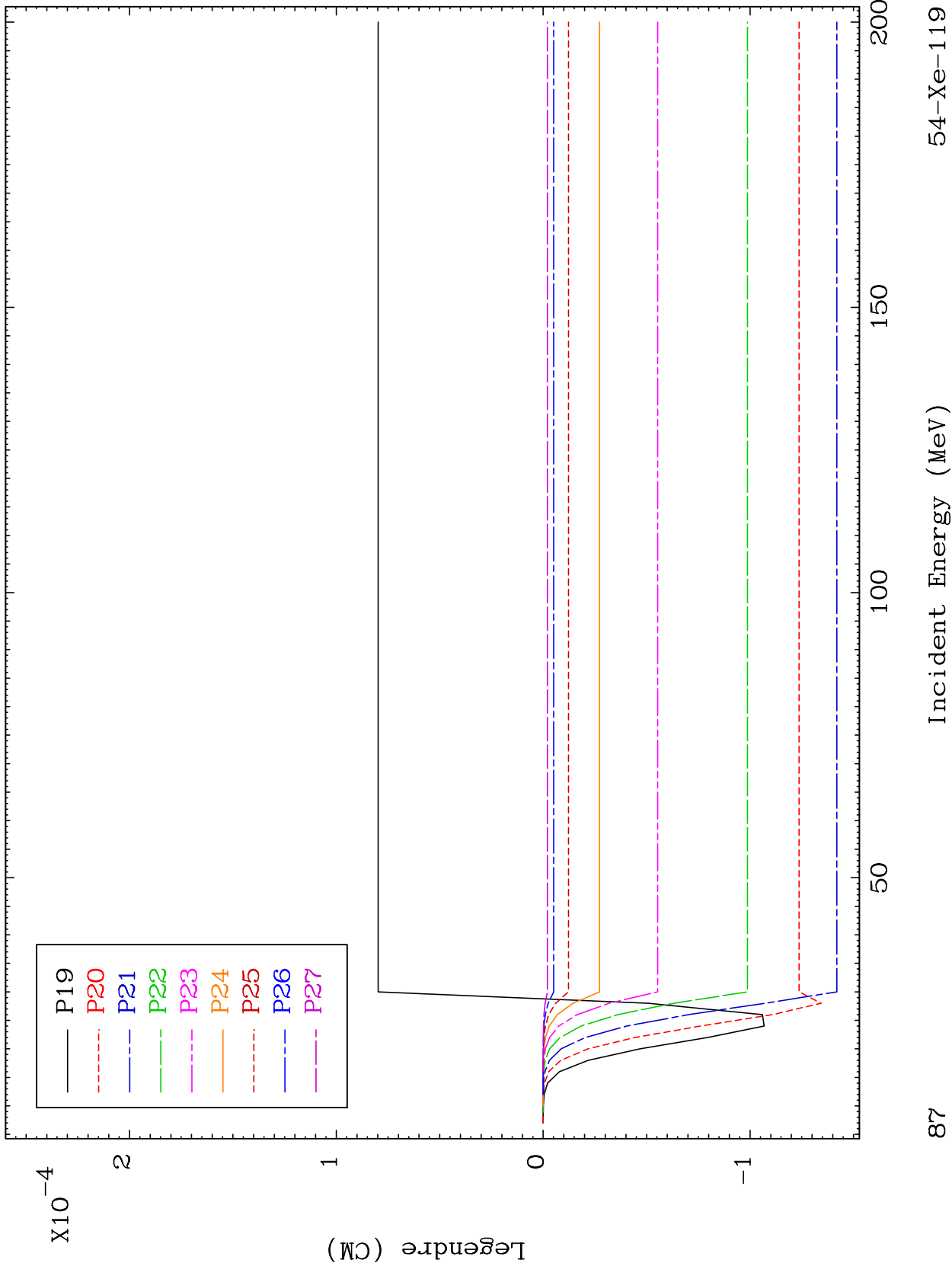
54-Xe-119



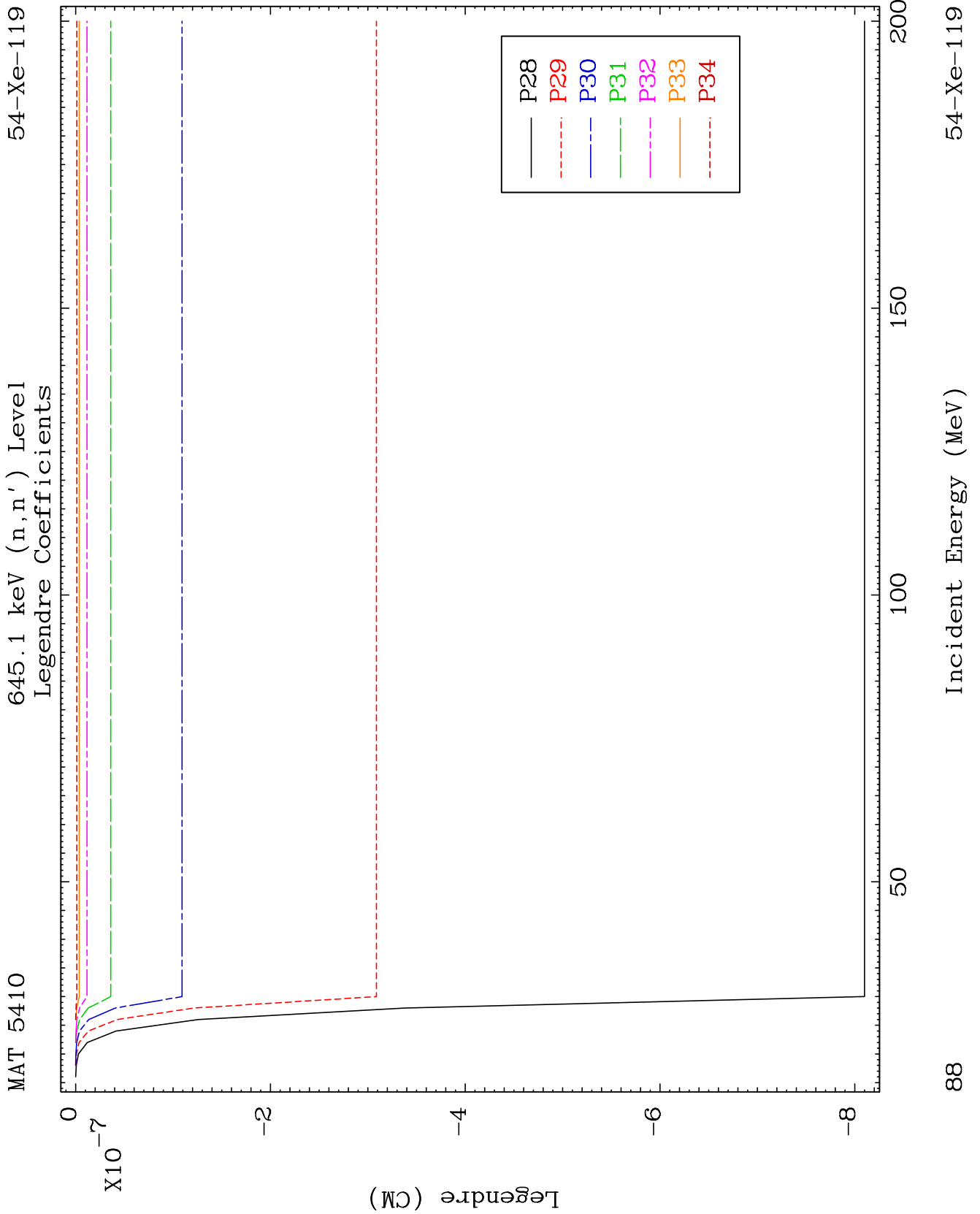
86

Incident Energy (MeV)

54-Xe-119



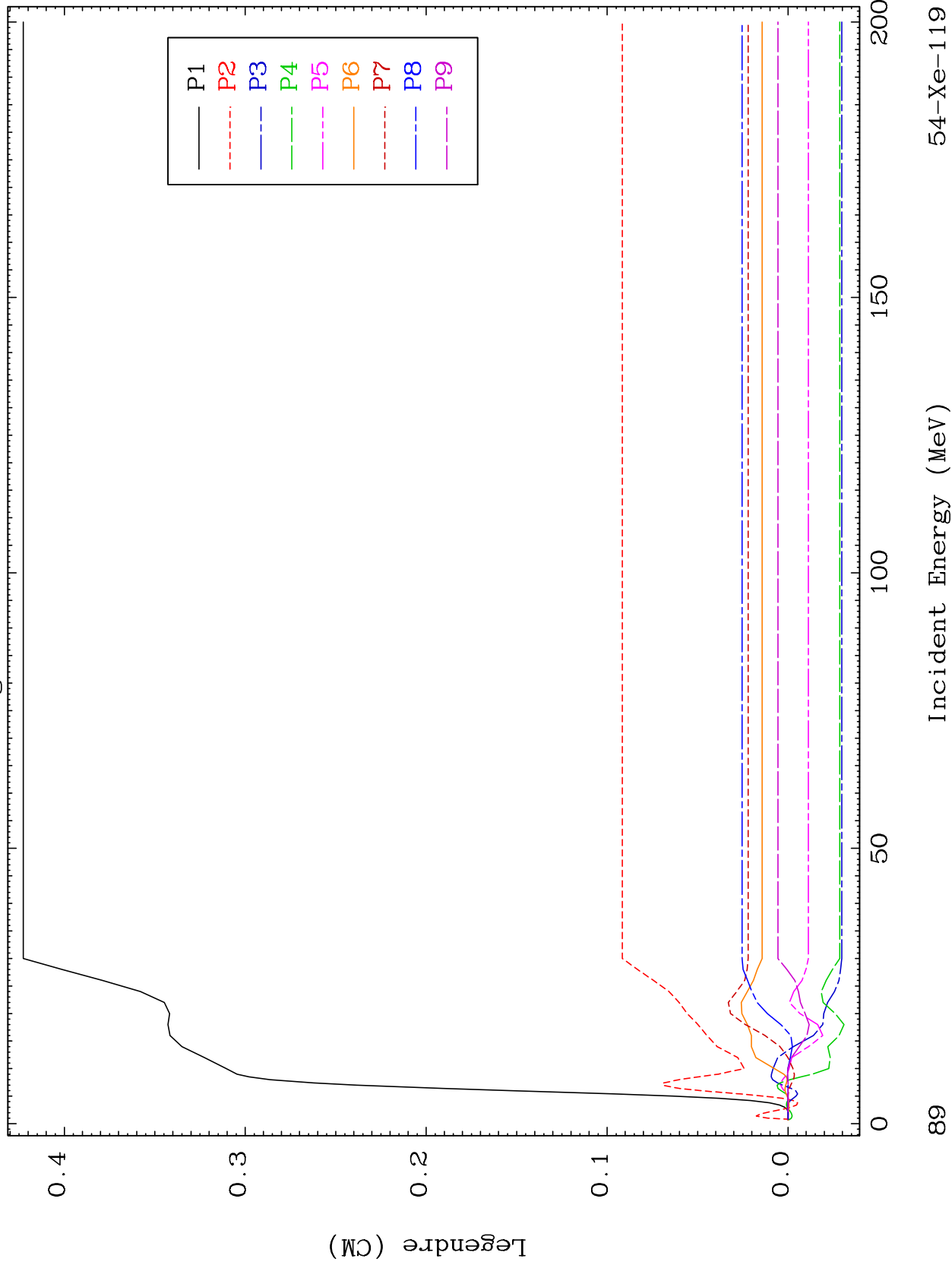




MAT 5410

649.4 keV (n,n') Level  
Legendre Coefficients

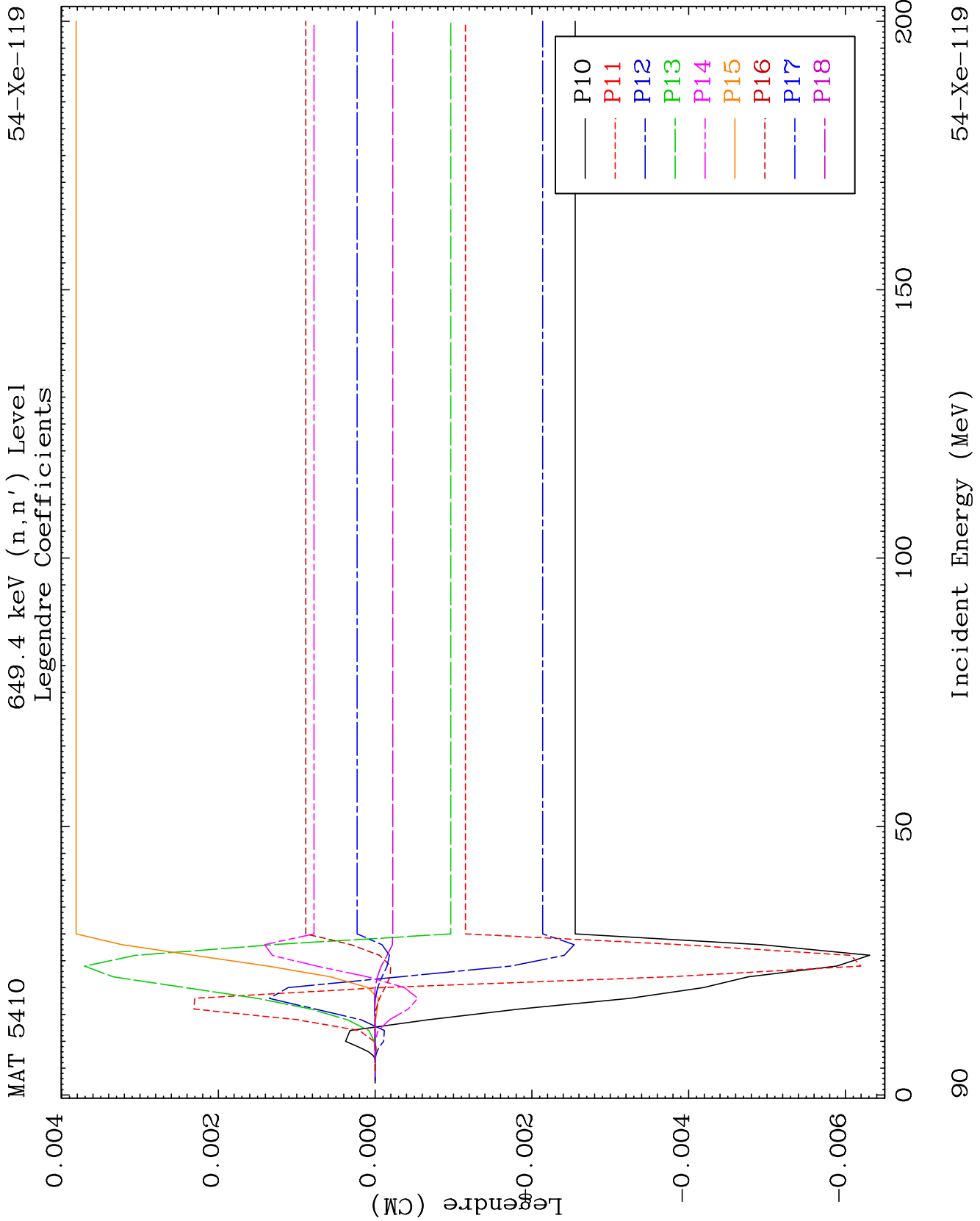
54-Xe-119

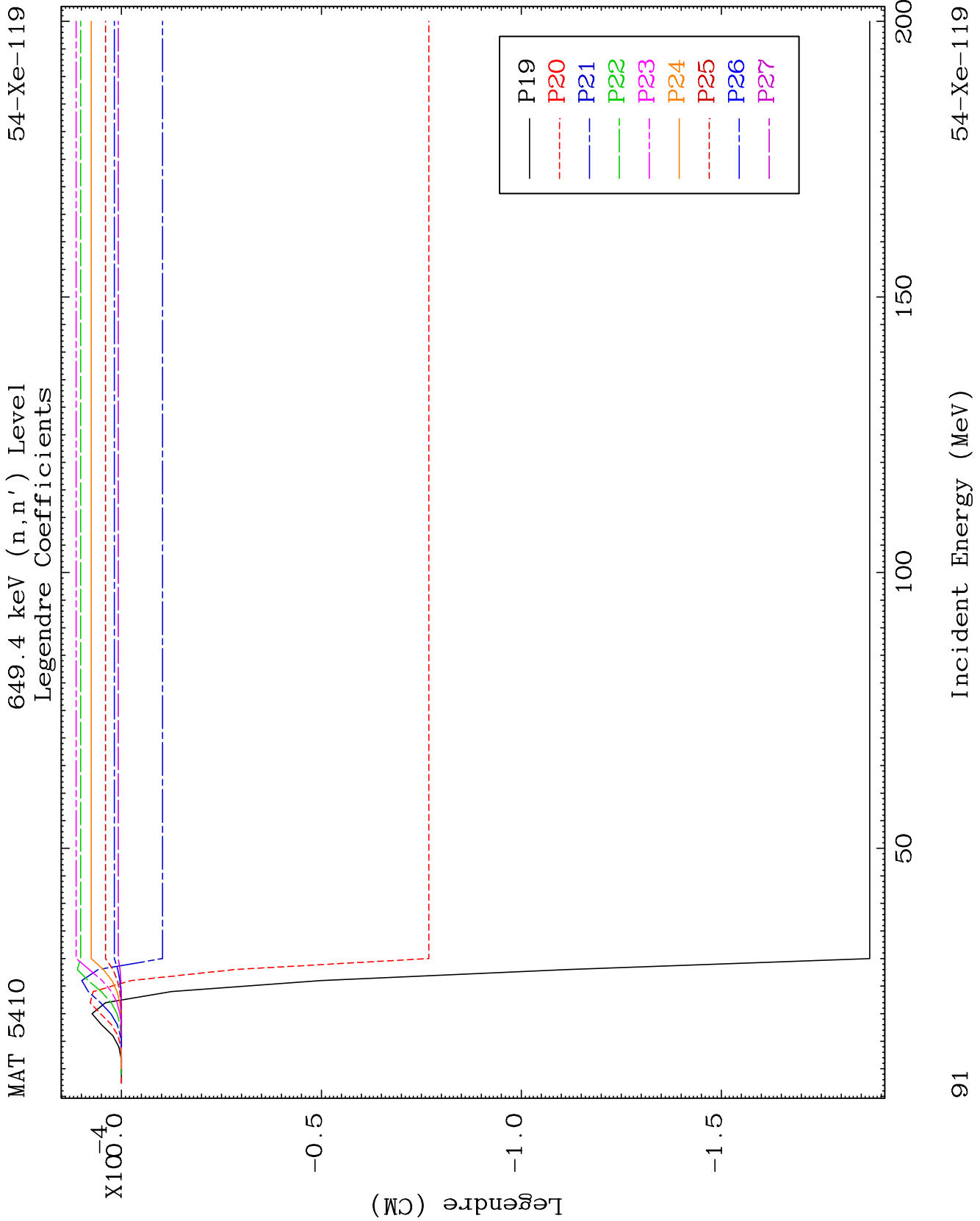


54-Xe-119

Incident Energy (MeV)

89

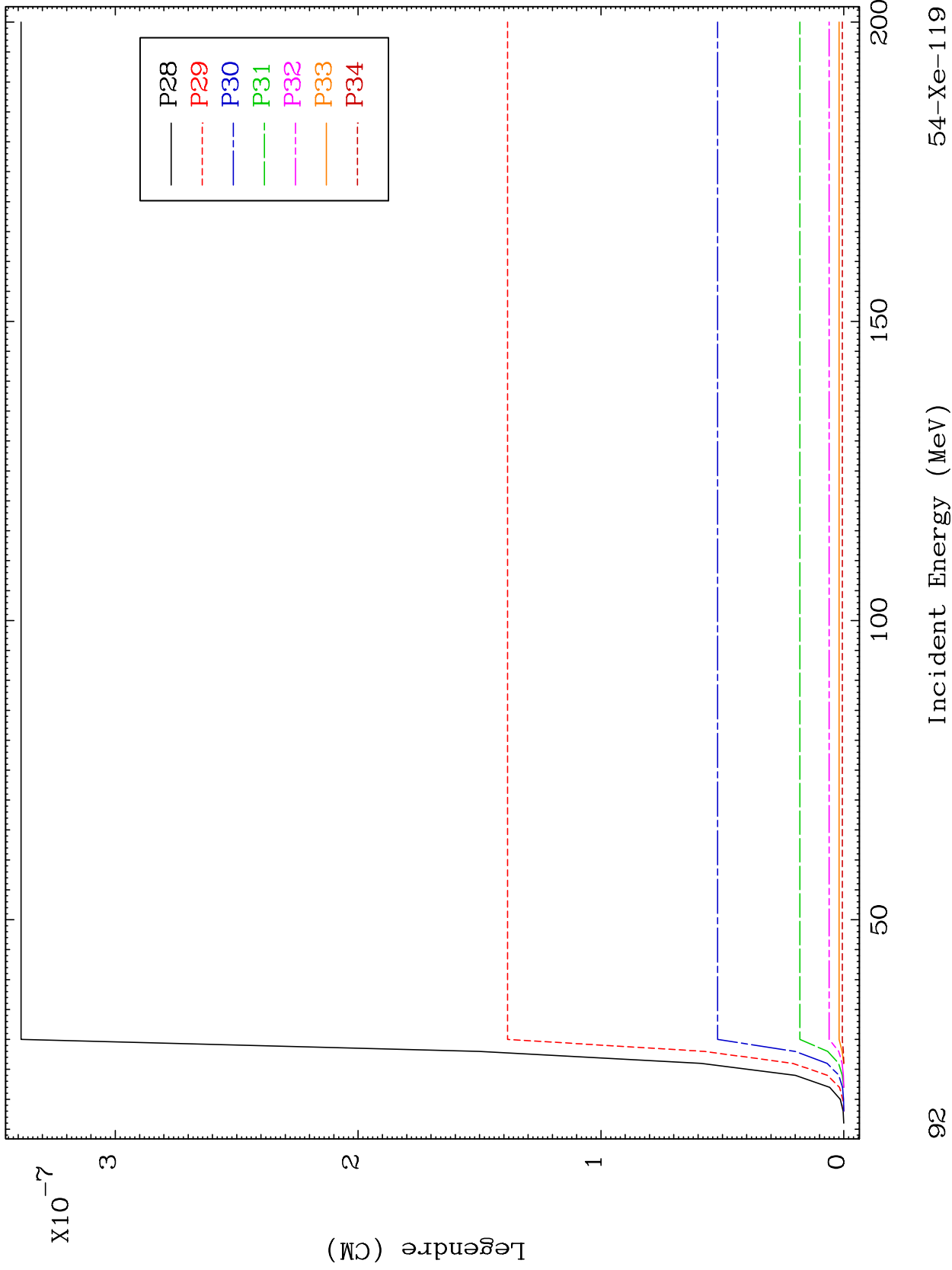




MAT 5410

649.4 keV (n,n') Level  
Legendre Coefficients

54-Xe-119

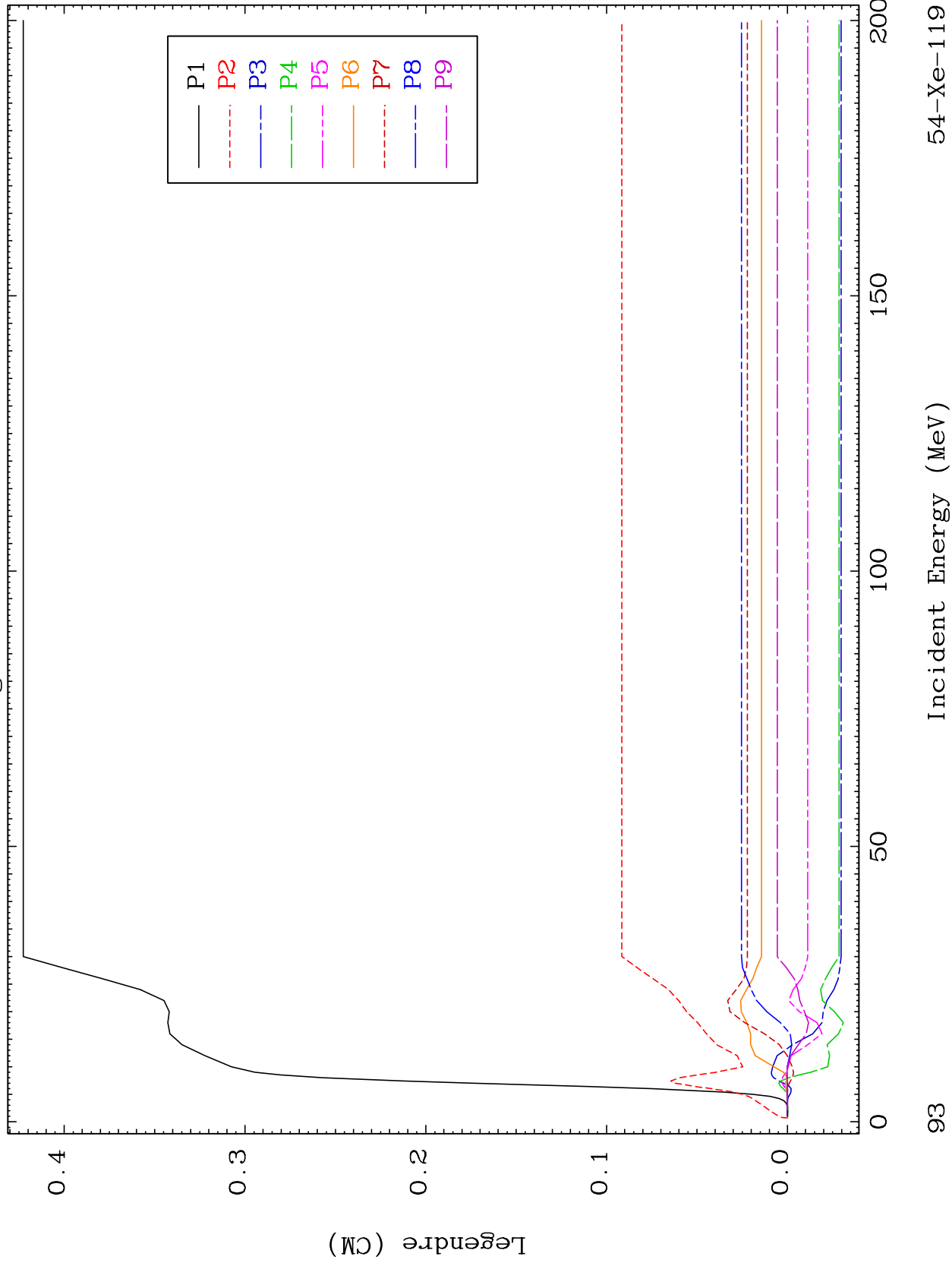


92

MAT 5410

661.5 keV (n,n') Level  
Legendre Coefficients

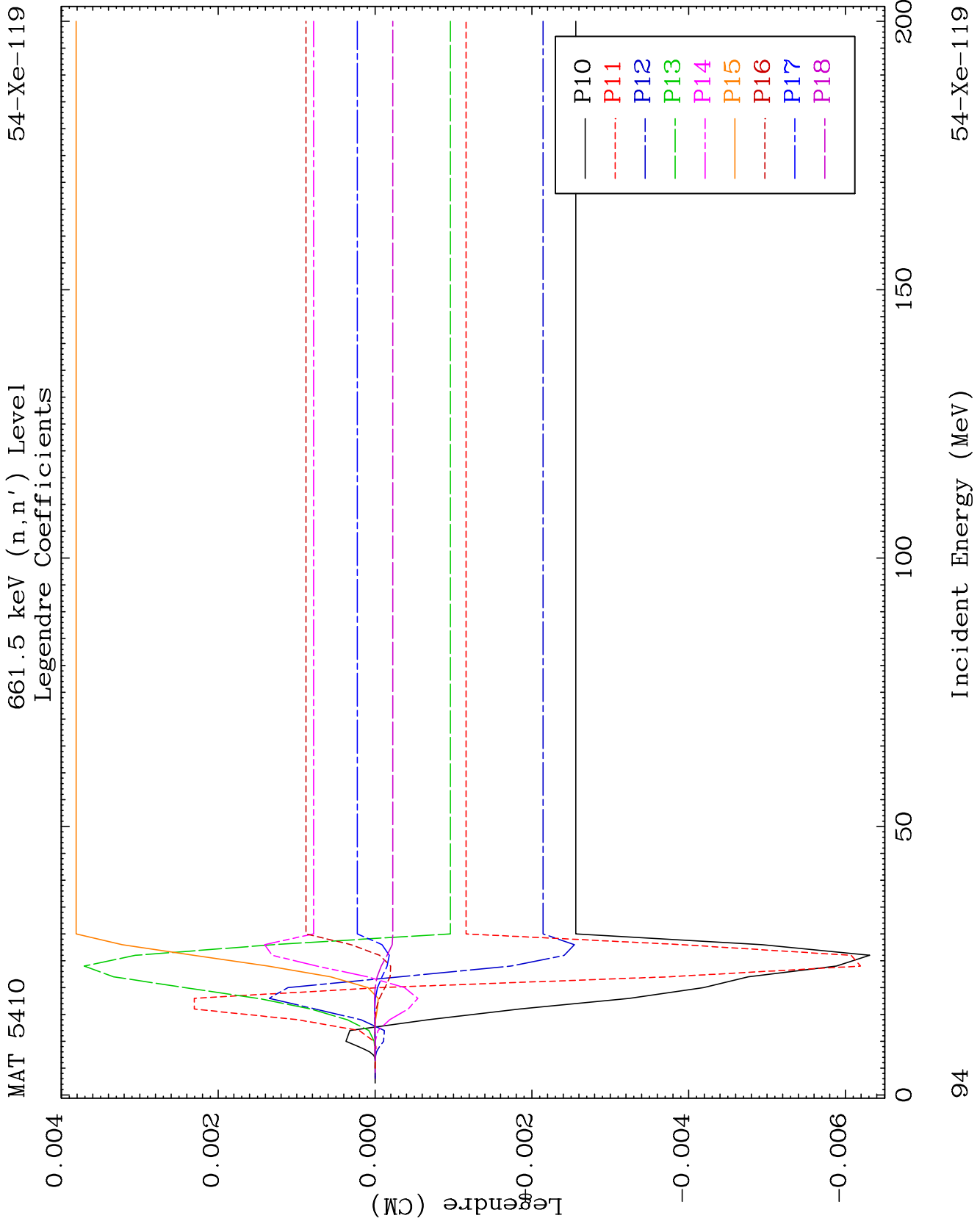
54-Xe-119

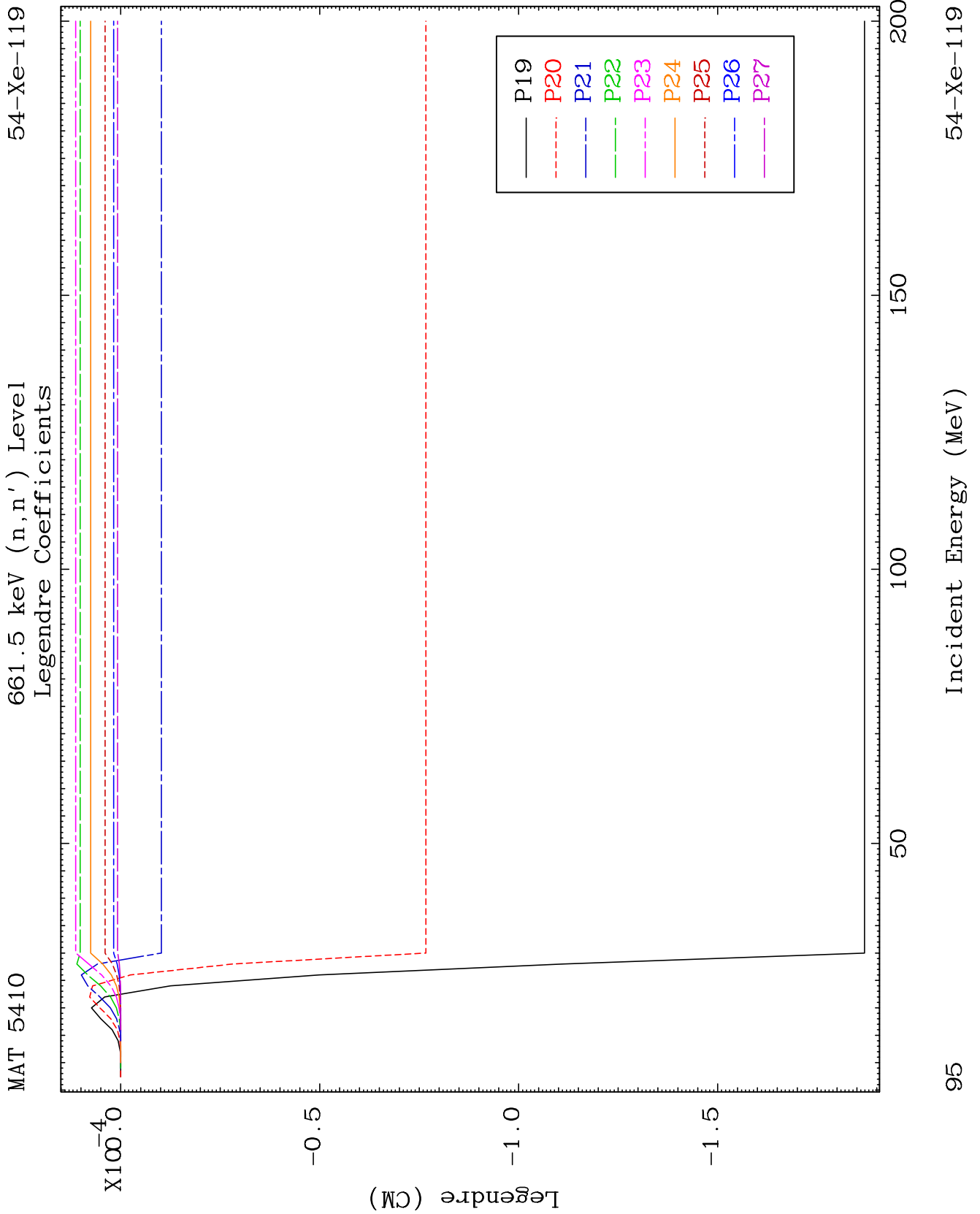


93

Incident Energy (MeV)

54-Xe-119



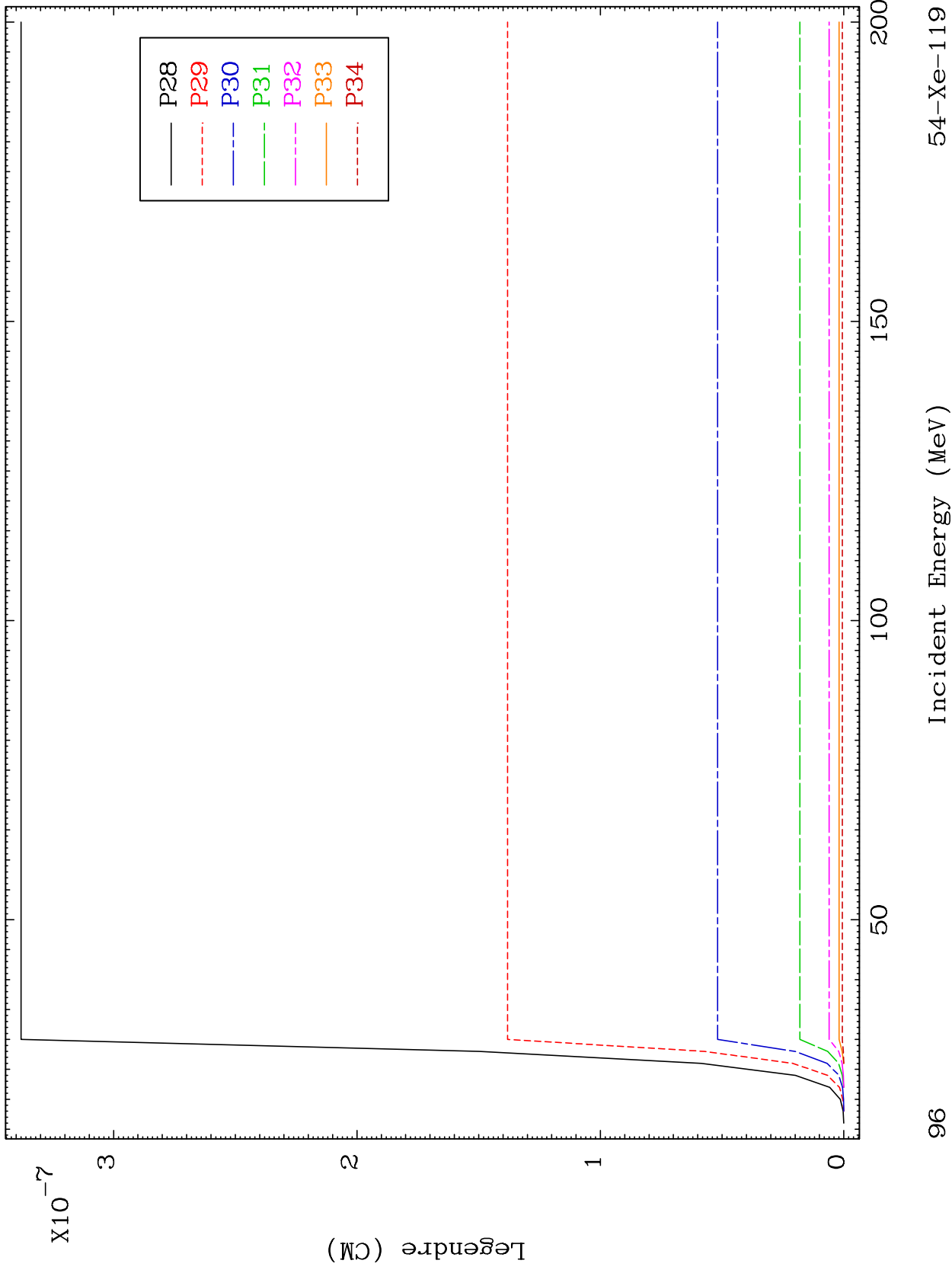




MAT 5410

661.5 keV (n,n') Level  
Legendre Coefficients

54-Xe-119



96

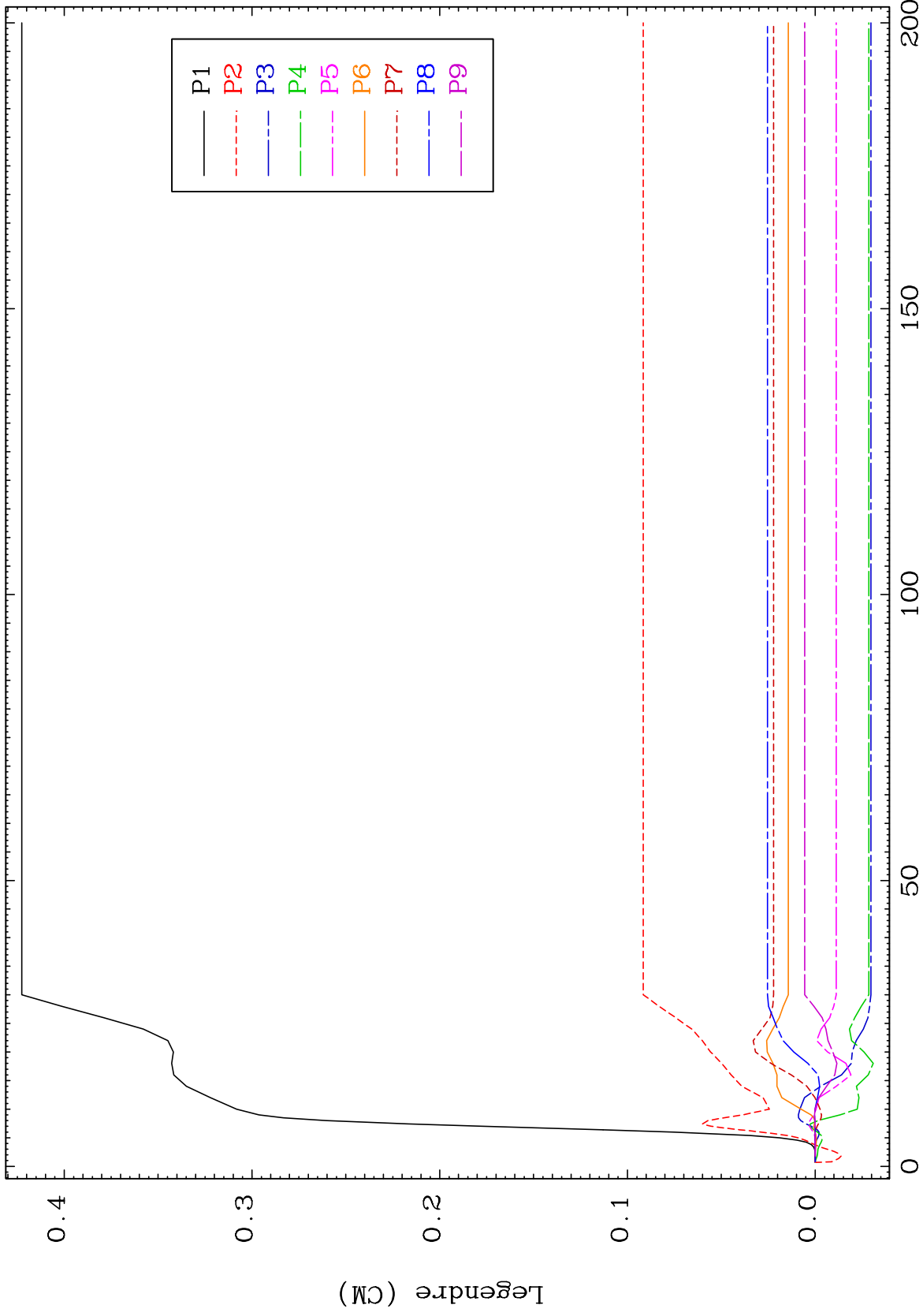
Incident Energy (MeV)

54-Xe-119

MAT 5410

667.6 keV (n,n') Level  
Legendre Coefficients

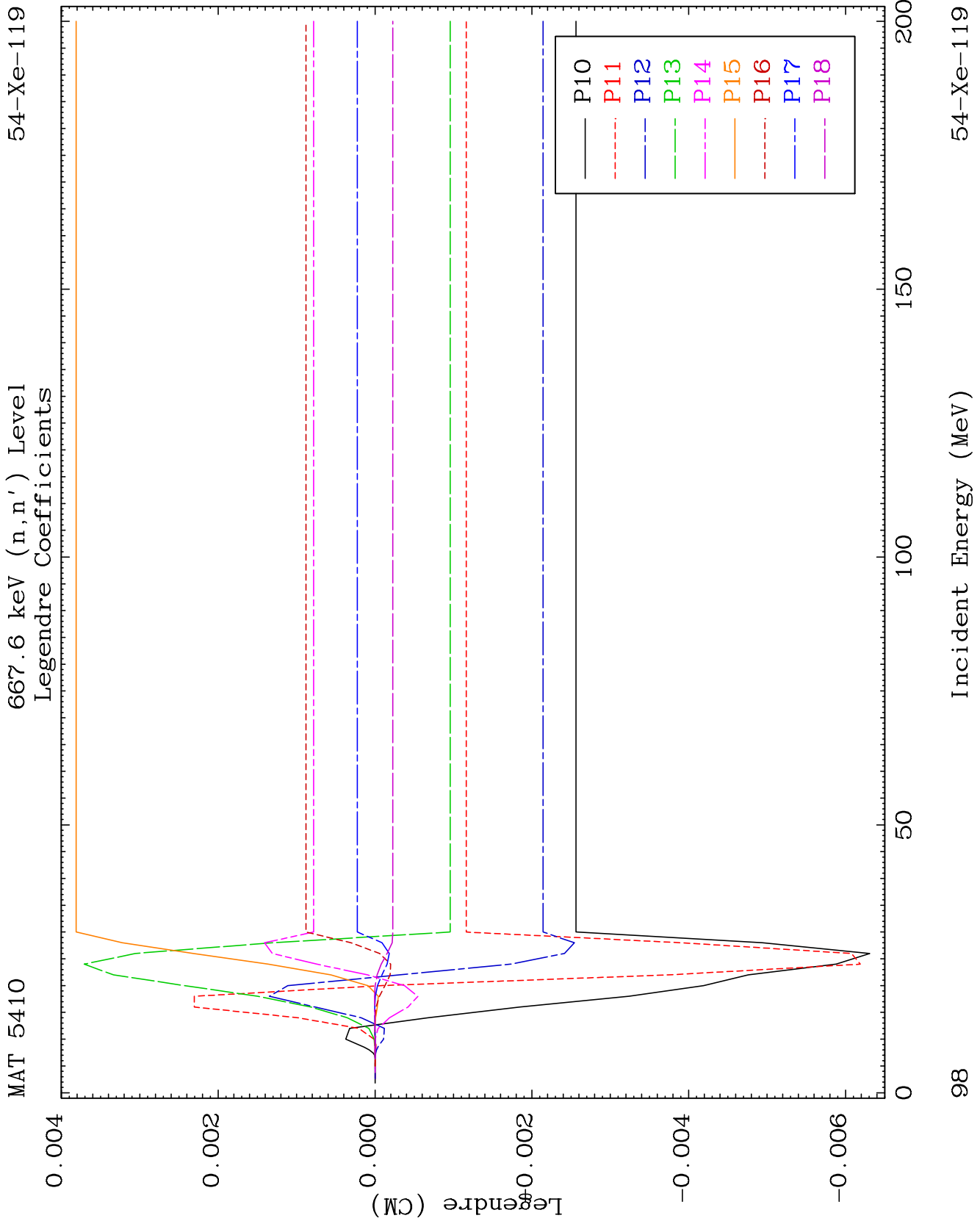
54-Xe-119

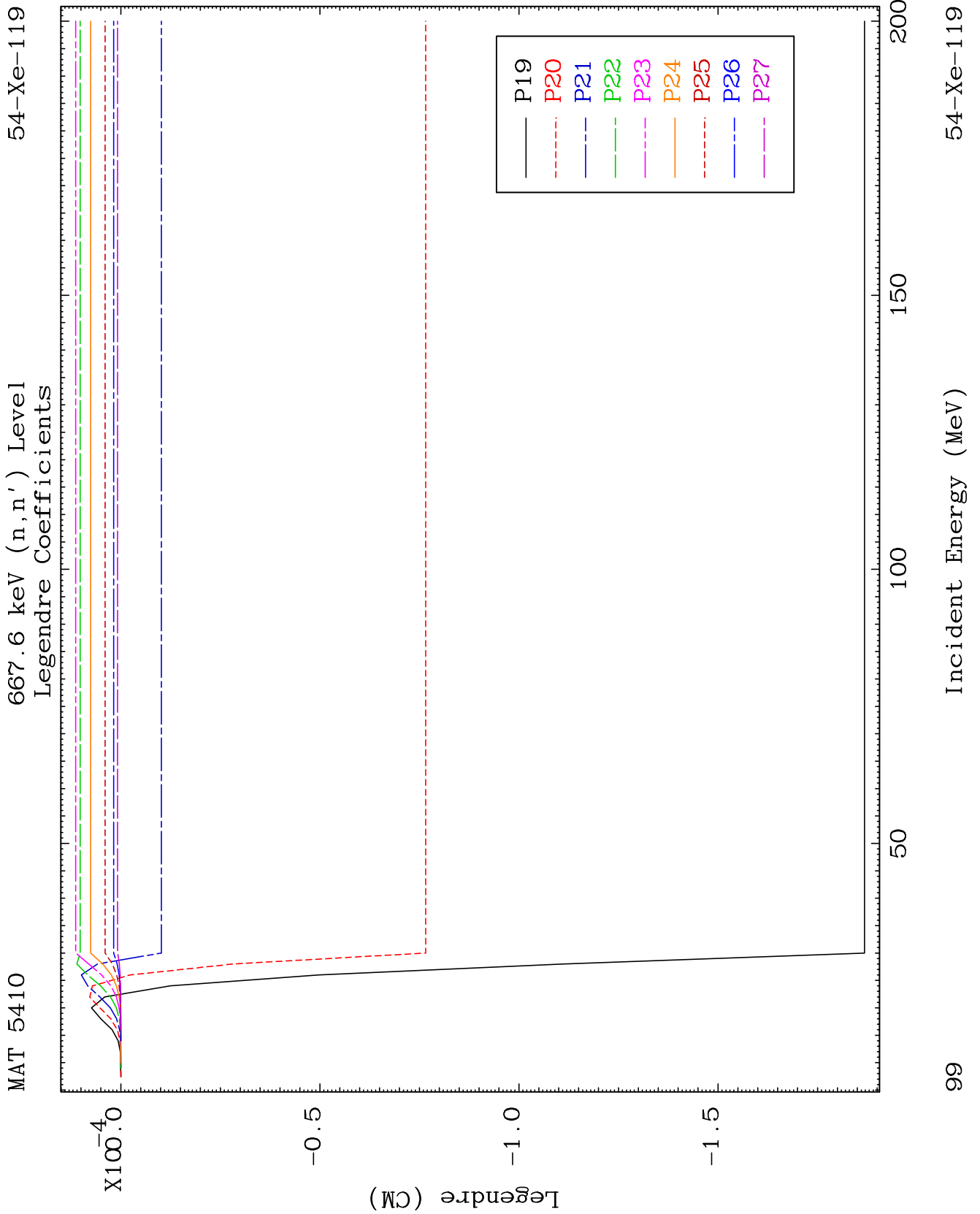


97

Incident Energy (MeV)

54-Xe-119

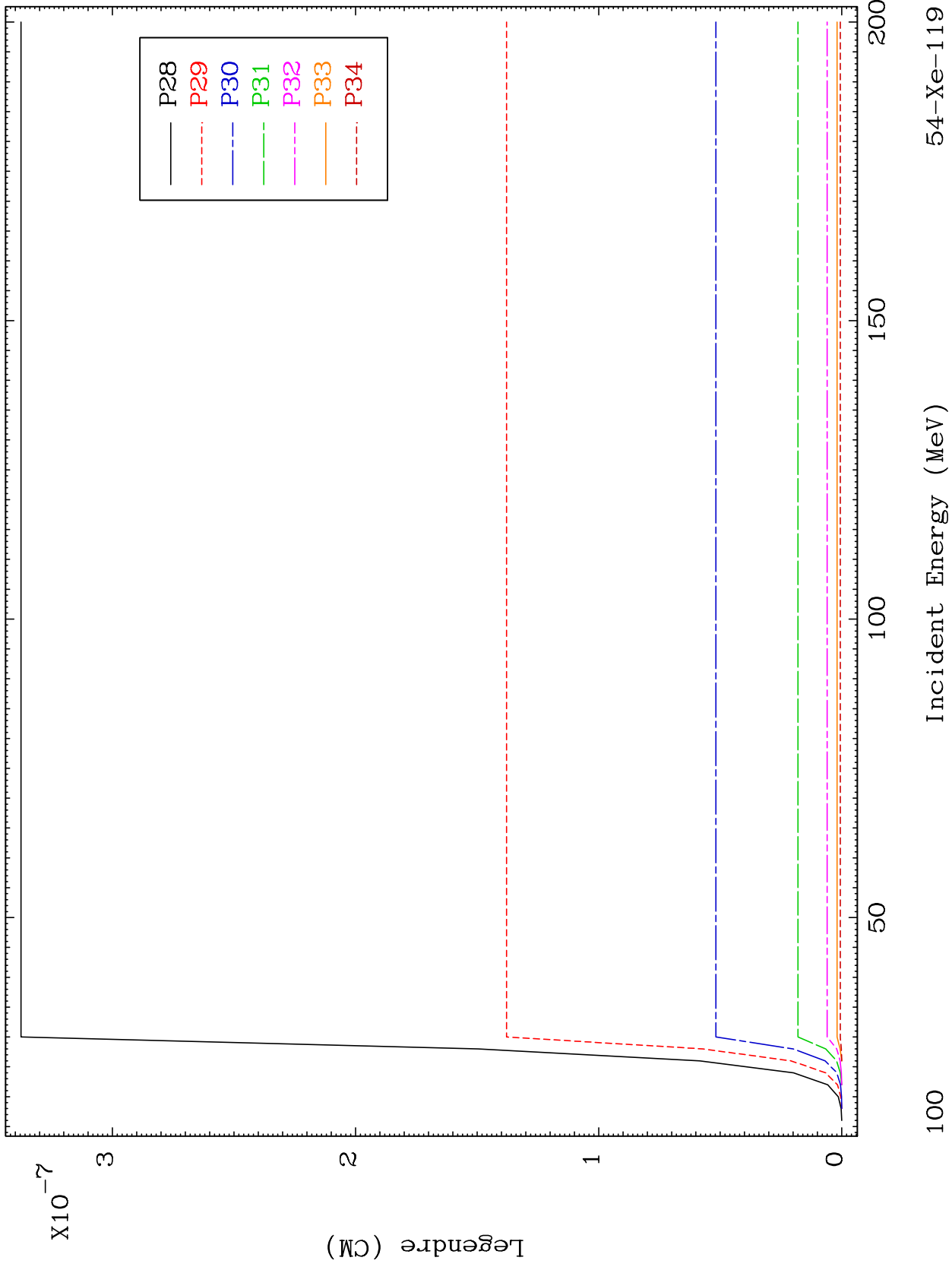




MAT 5410

667.6 keV (n,n') Level  
Legendre Coefficients

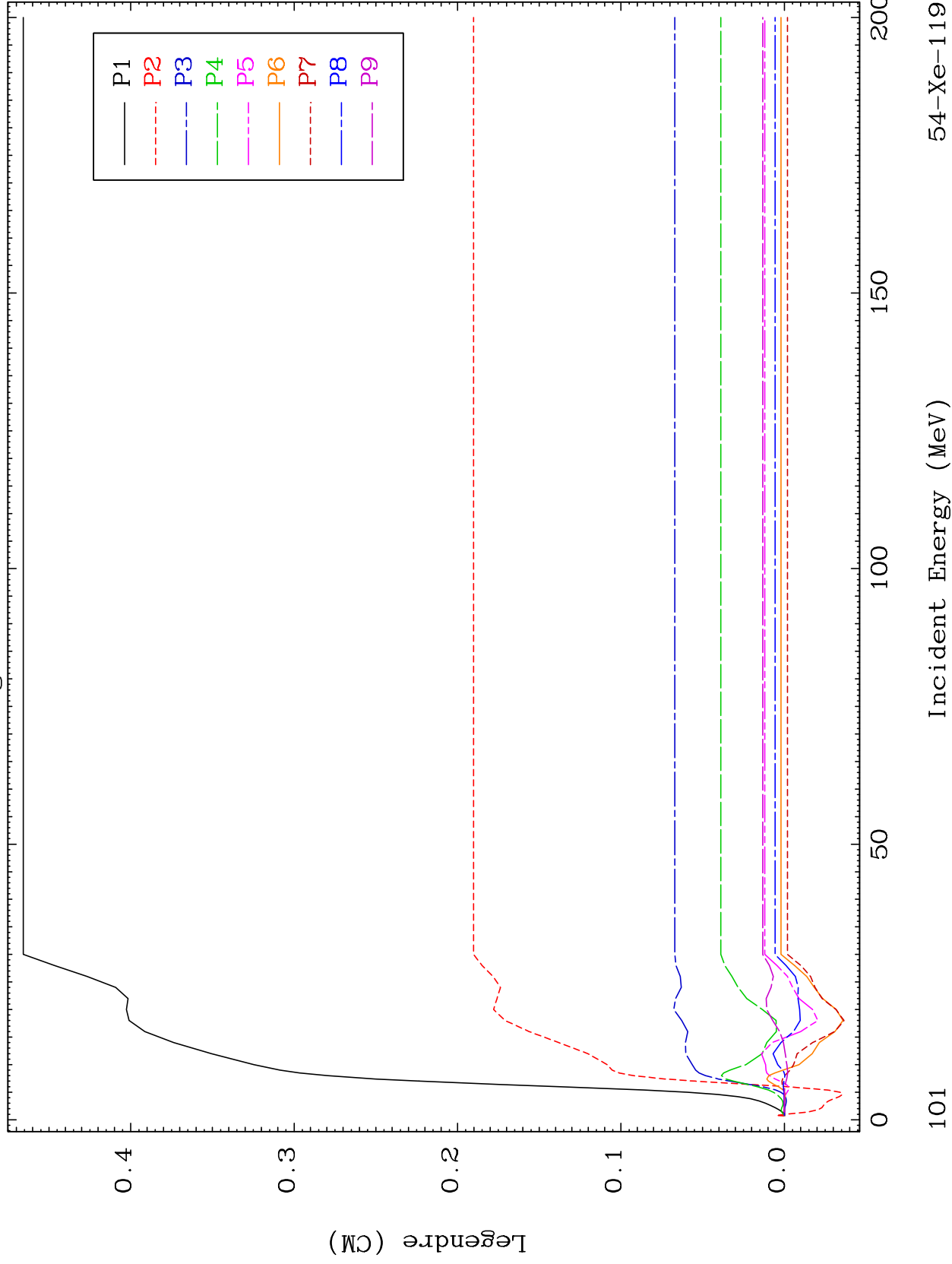
54-Xe-119



MAT 5410

671.6 keV (n,n') Level  
Legendre Coefficients

54-Xe-119



54-Xe-119

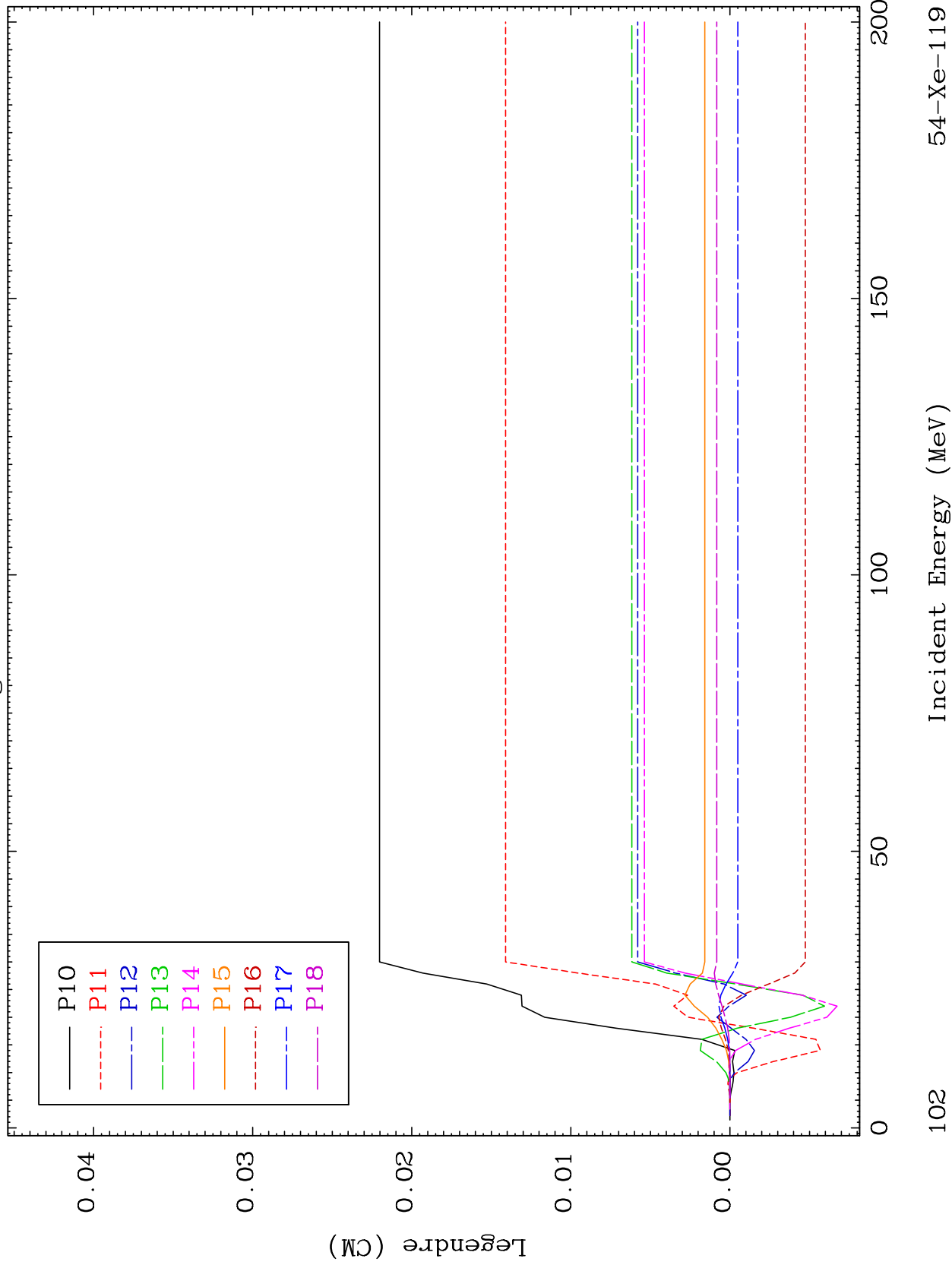
Incident Energy (MeV)

101

MAT 5410

671.6 keV (n,n') Level  
Legendre Coefficients

54-Xe-119



54-Xe-119

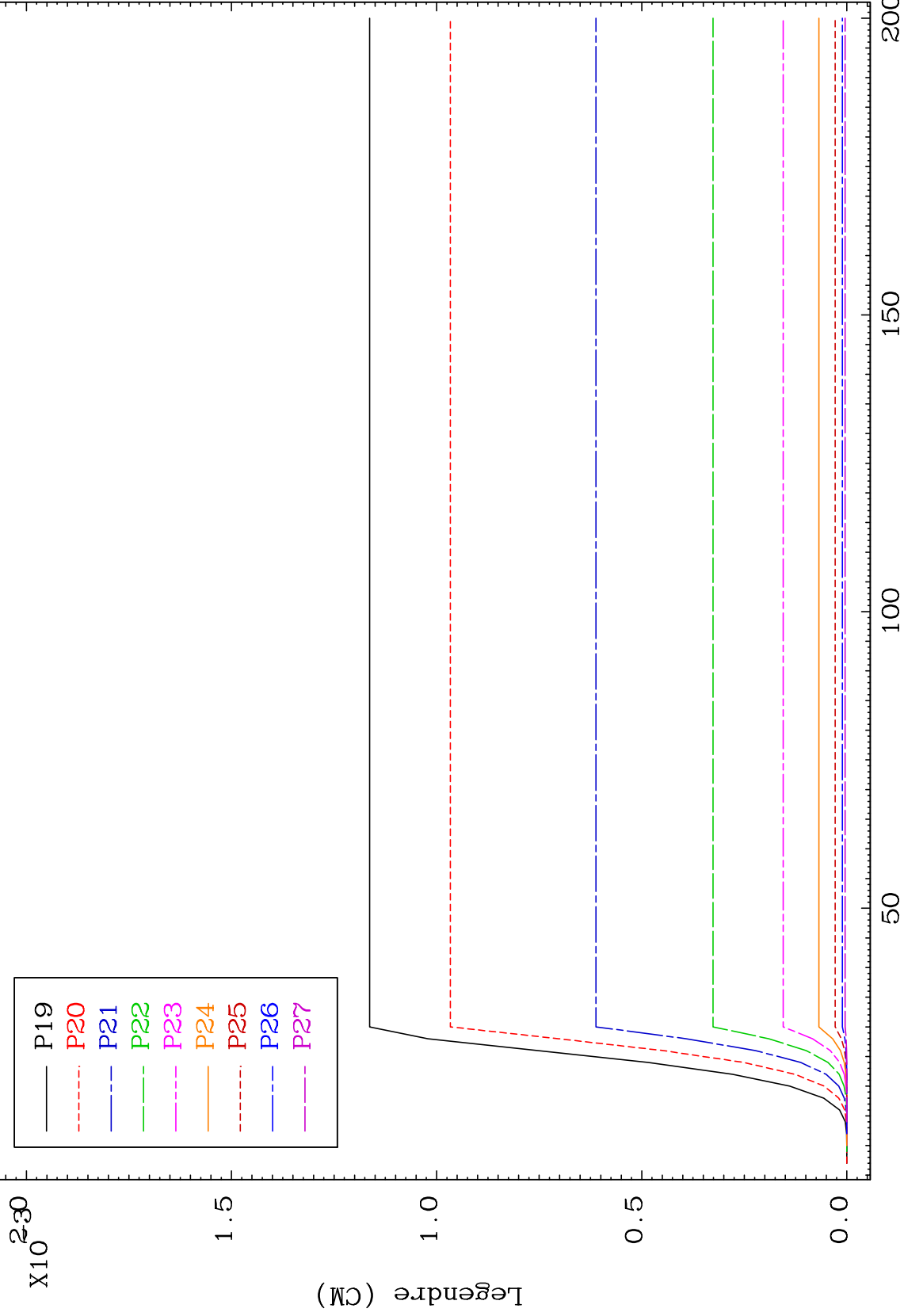
Incident Energy (MeV)

102

MAT 5410

671.6 keV (n,n') Level  
Legendre Coefficients

54-Xe-119



103

Incident Energy (MeV)

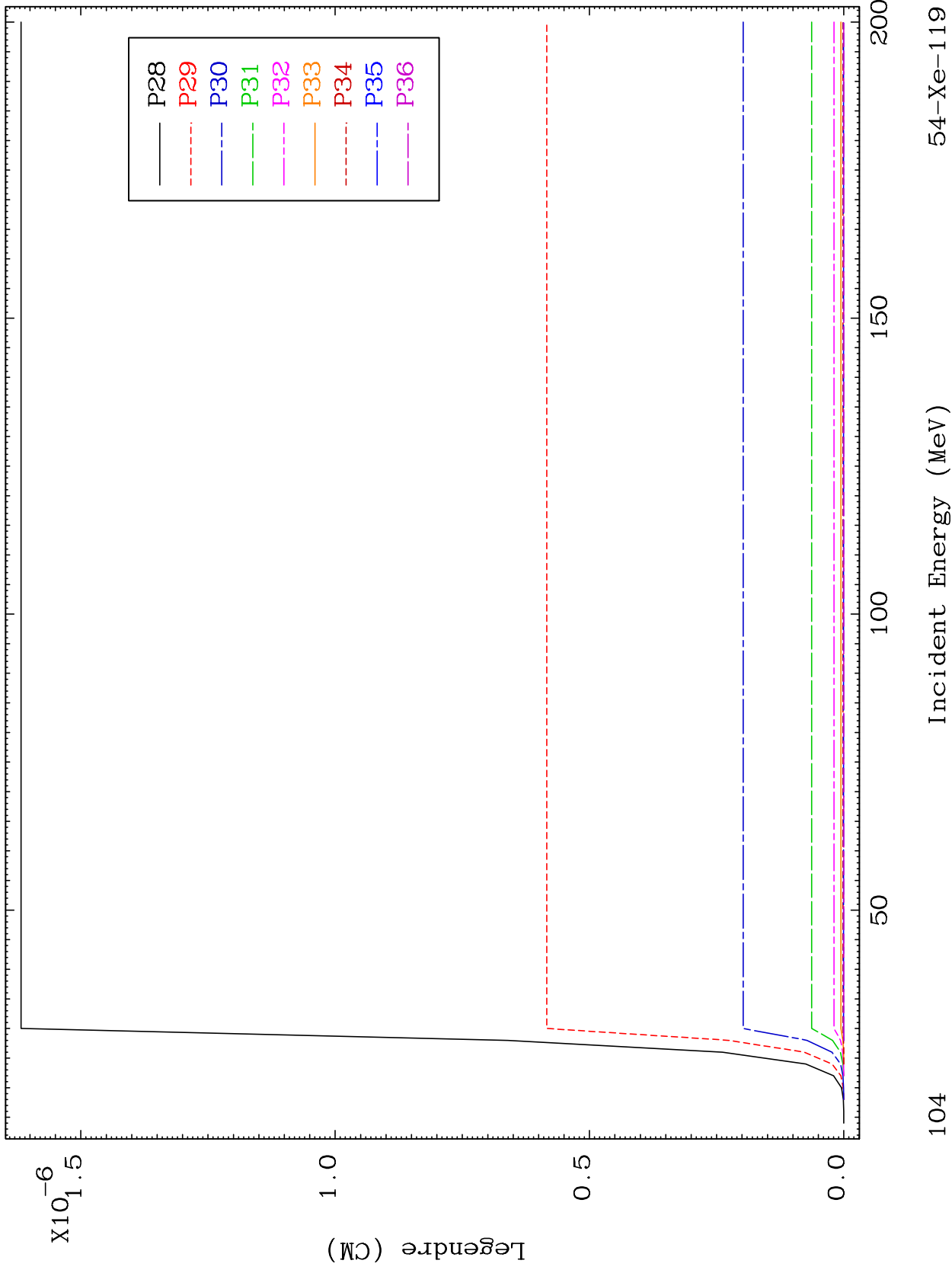
54-Xe-119



MAT 5410

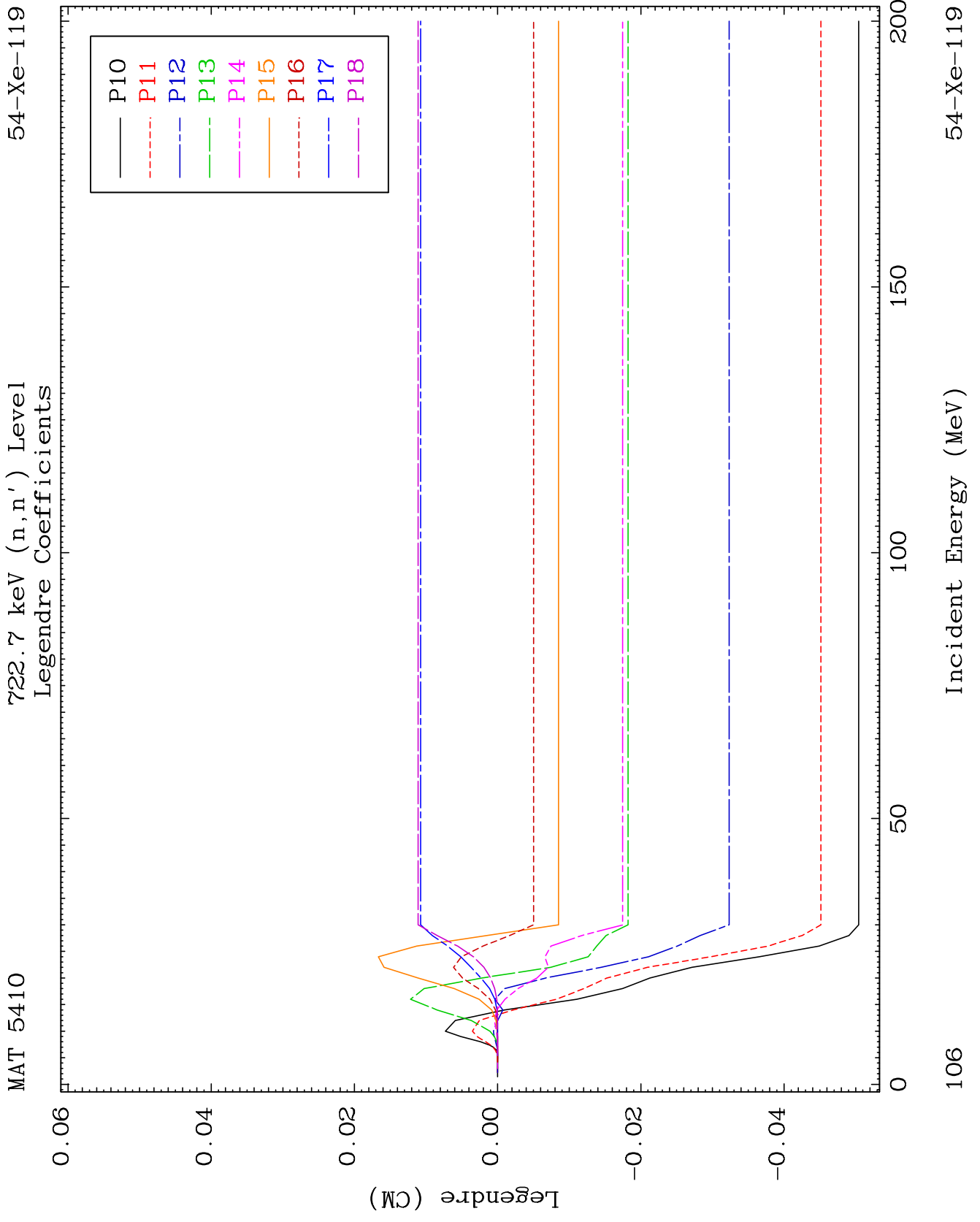
671.6 keV (n,n') Level  
Legendre Coefficients

54-Xe-119



104

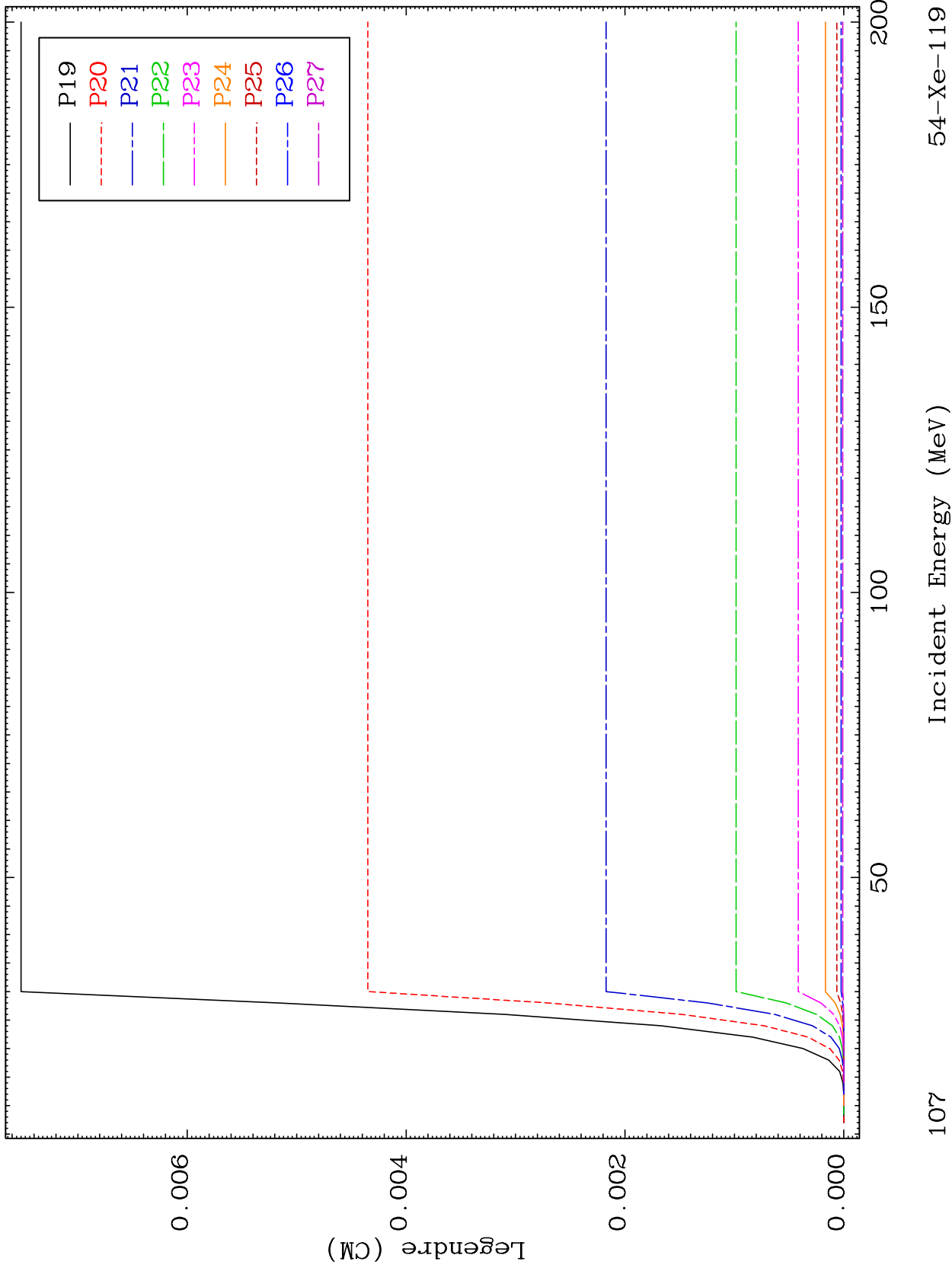




MAT 5410

722.7 keV (n,n') Level  
Legendre Coefficients

54-Xe-119



107

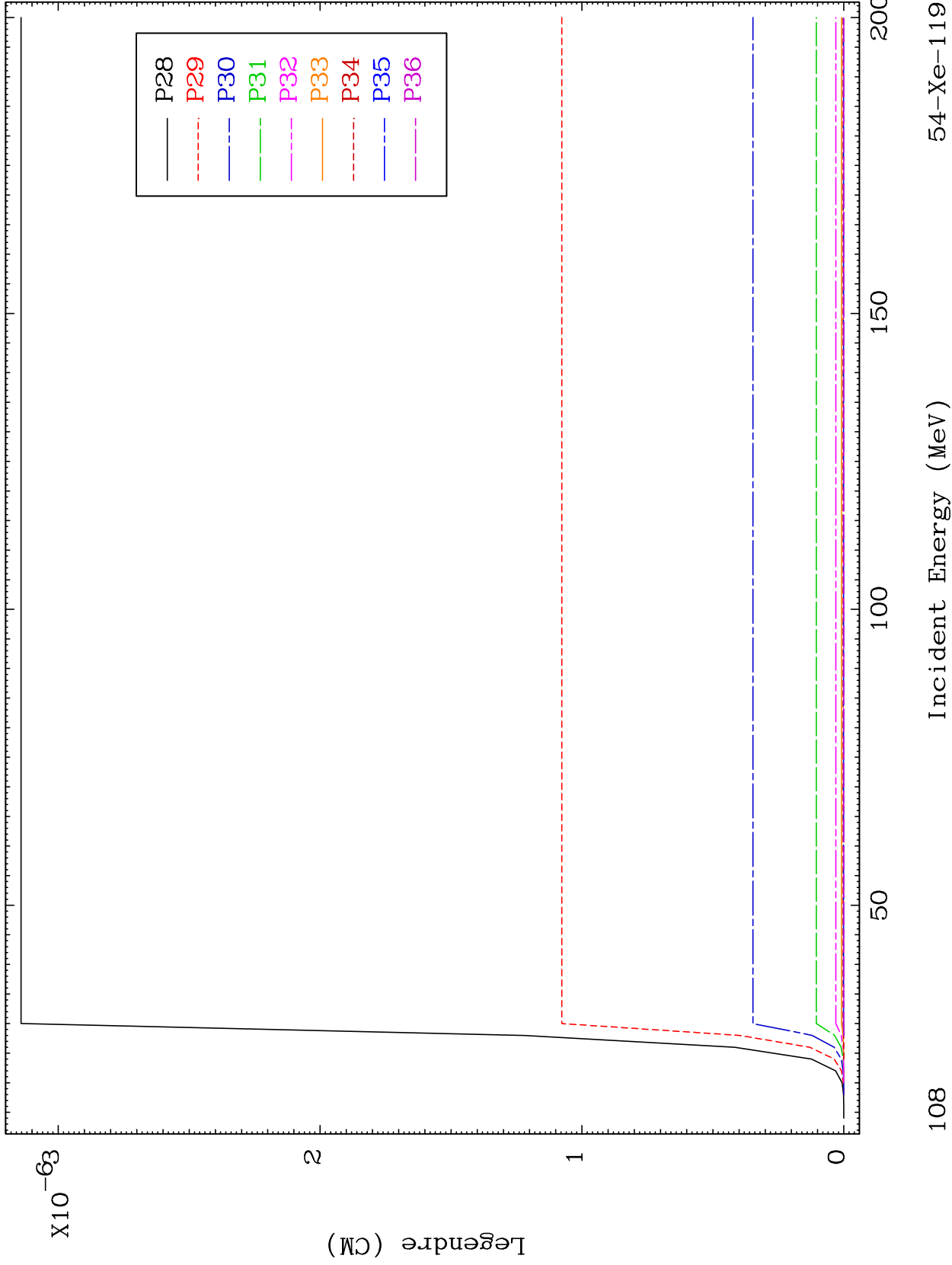
Incident Energy (MeV)

54-Xe-119

MAT 5410

722.7 keV (n,n') Level  
Legendre Coefficients

54-Xe-119



54-Xe-119

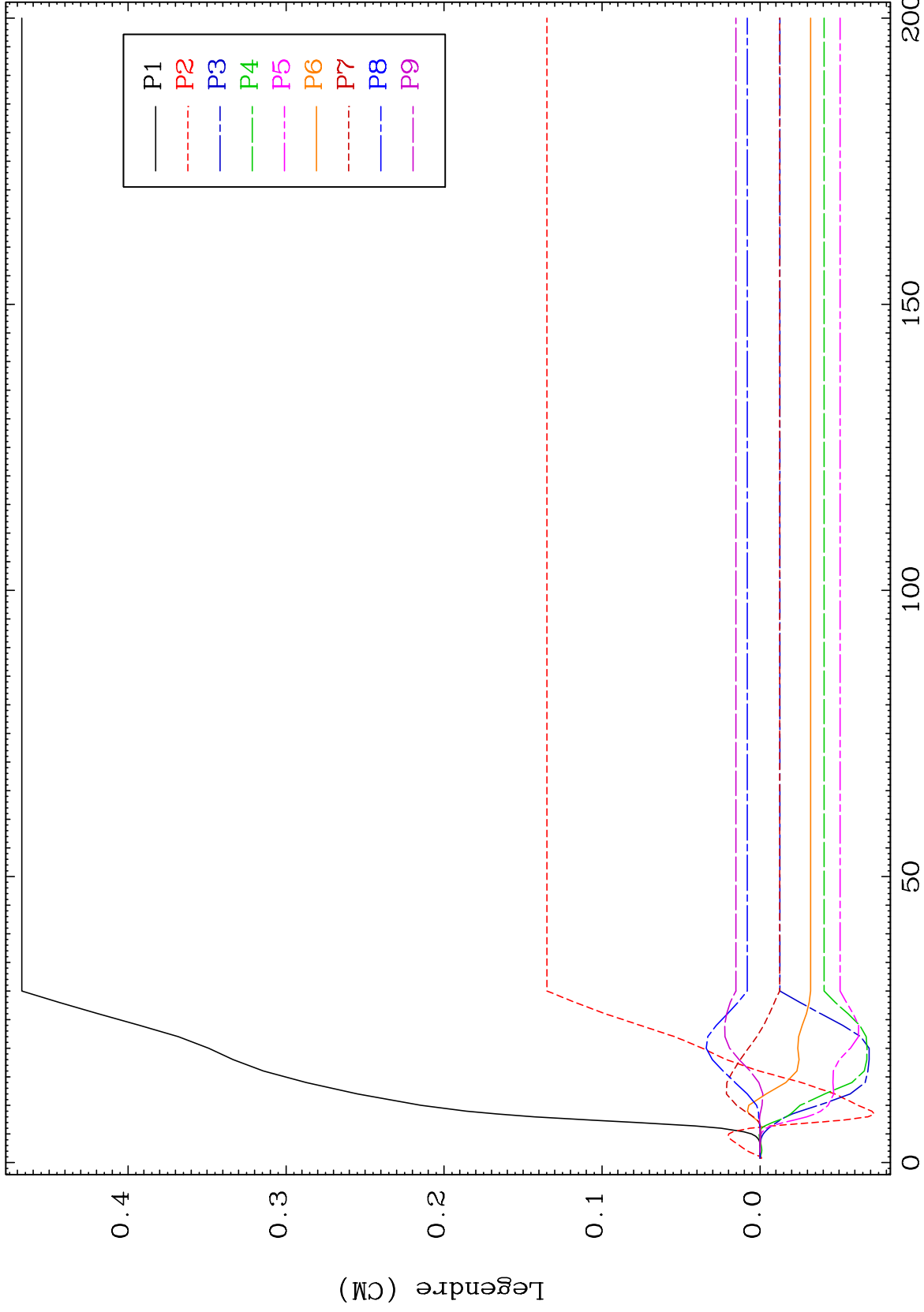
Incident Energy (MeV)

108

MAT 5410

731.3 keV (n,n') Level  
Legendre Coefficients

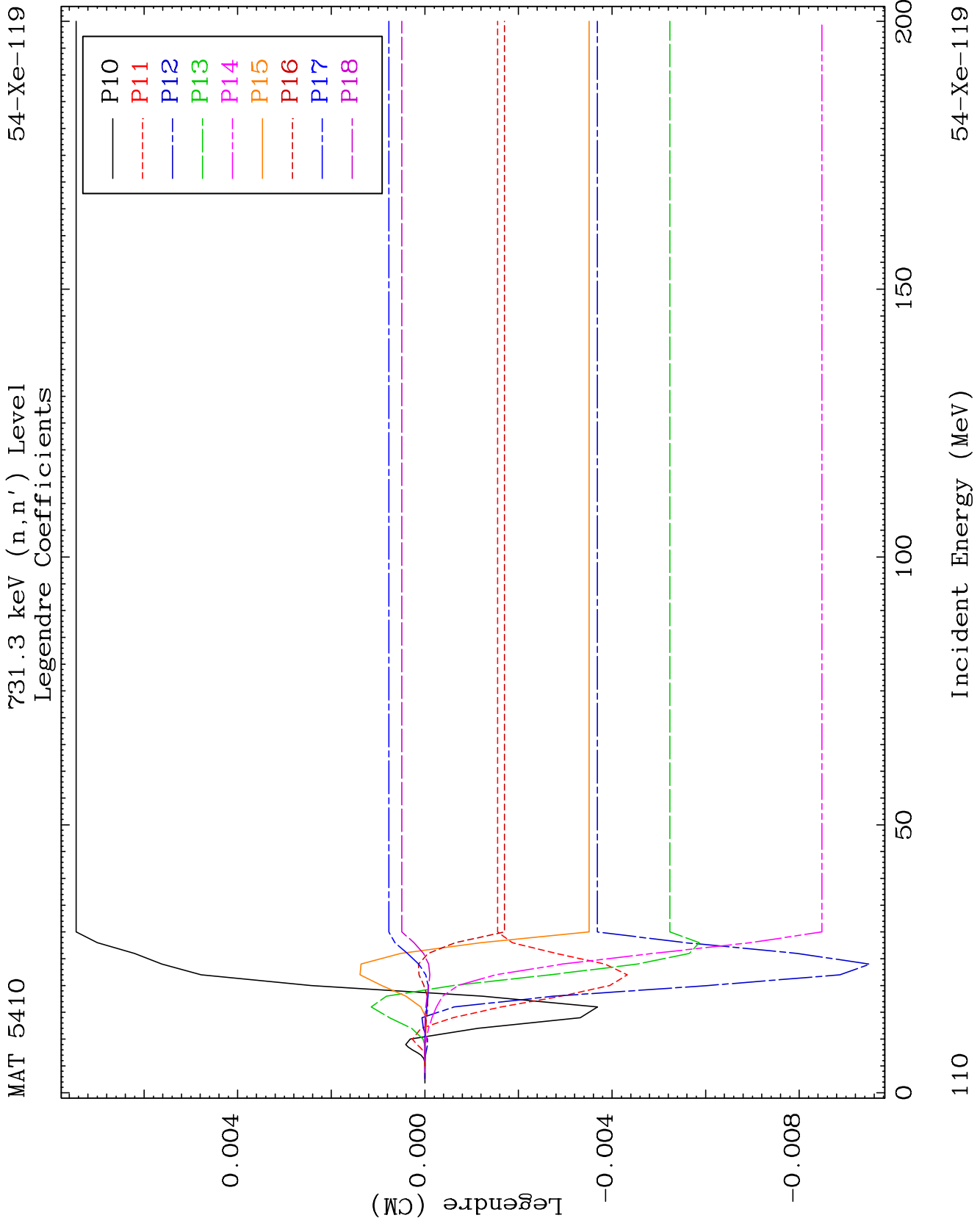
54-Xe-119



54-Xe-119

Incident Energy (MeV)

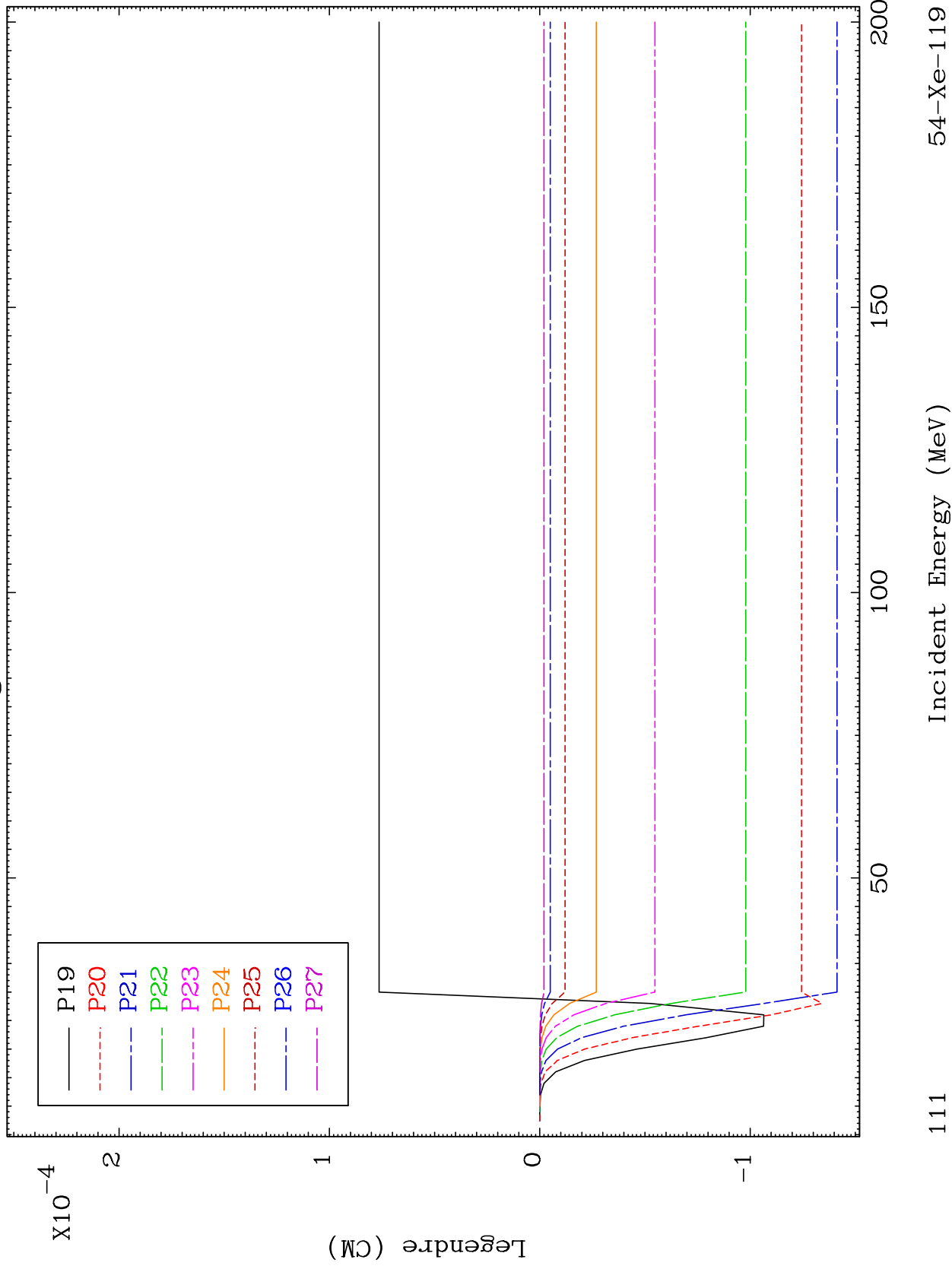
109



MAT 5410

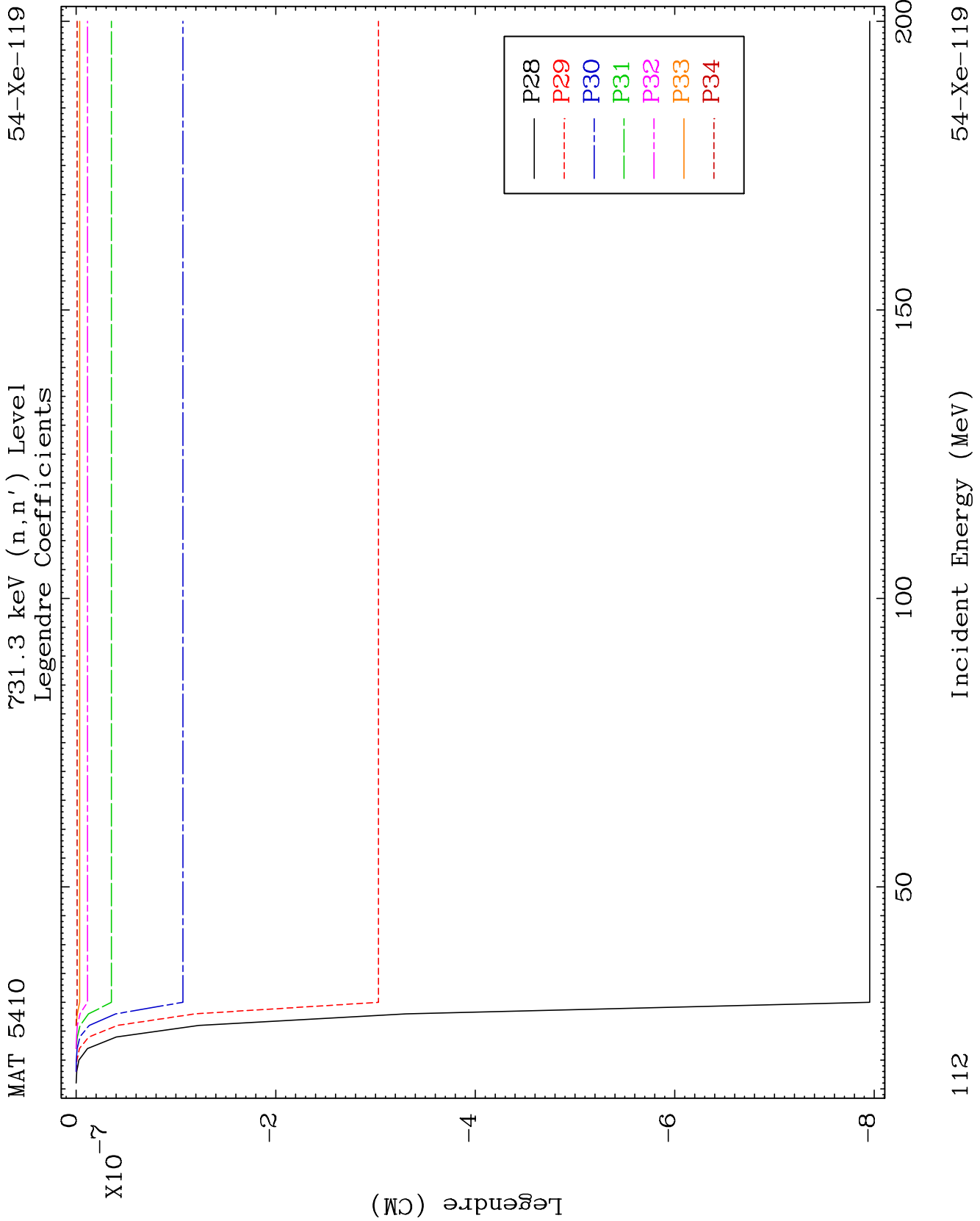
731.3 keV (n,n') Level  
Legendre Coefficients

54-Xe-119



111

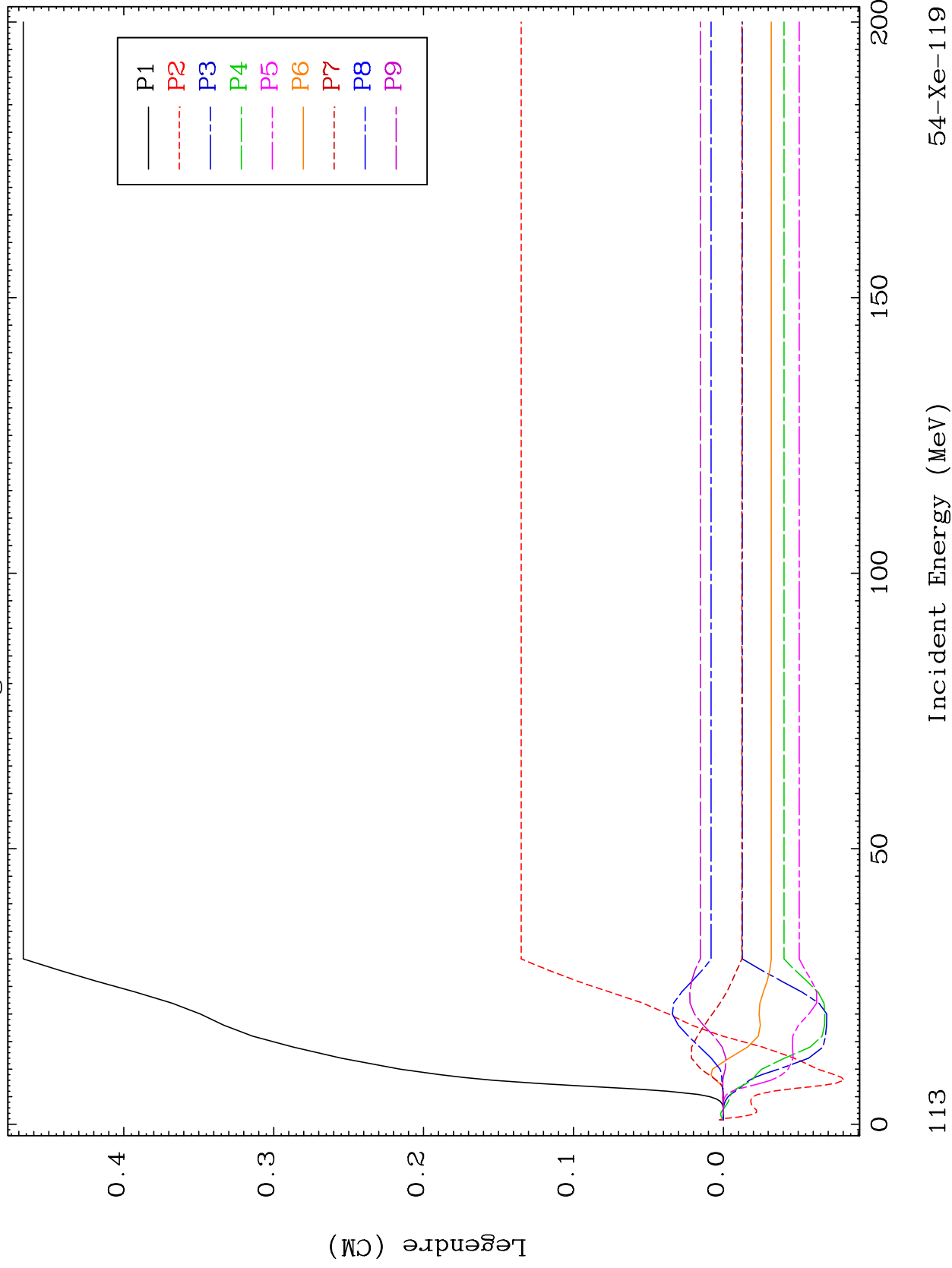




MAT 5410

758.7 keV (n,n') Level  
Legendre Coefficients

54-Xe-119



113

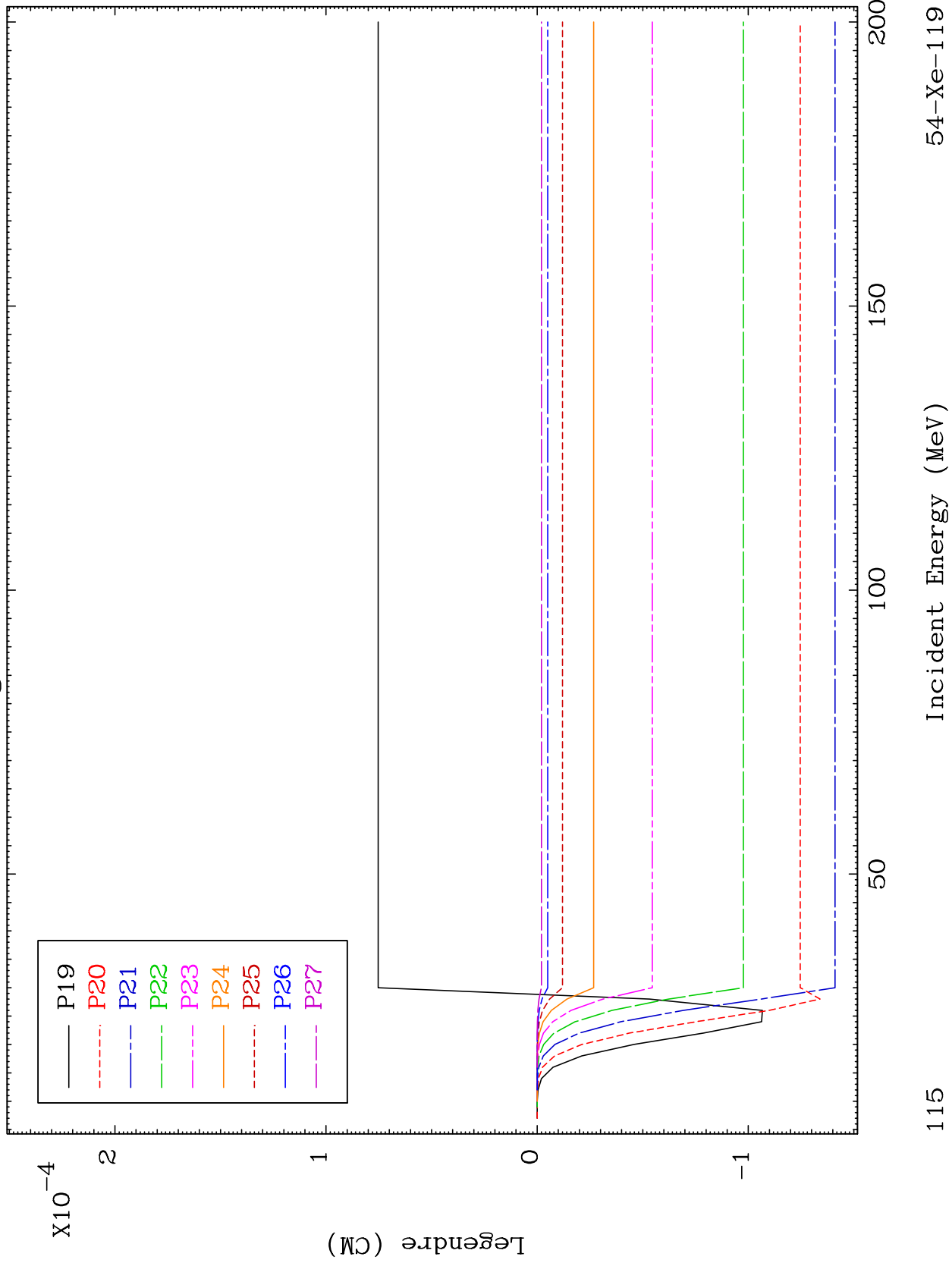
54-Xe-119



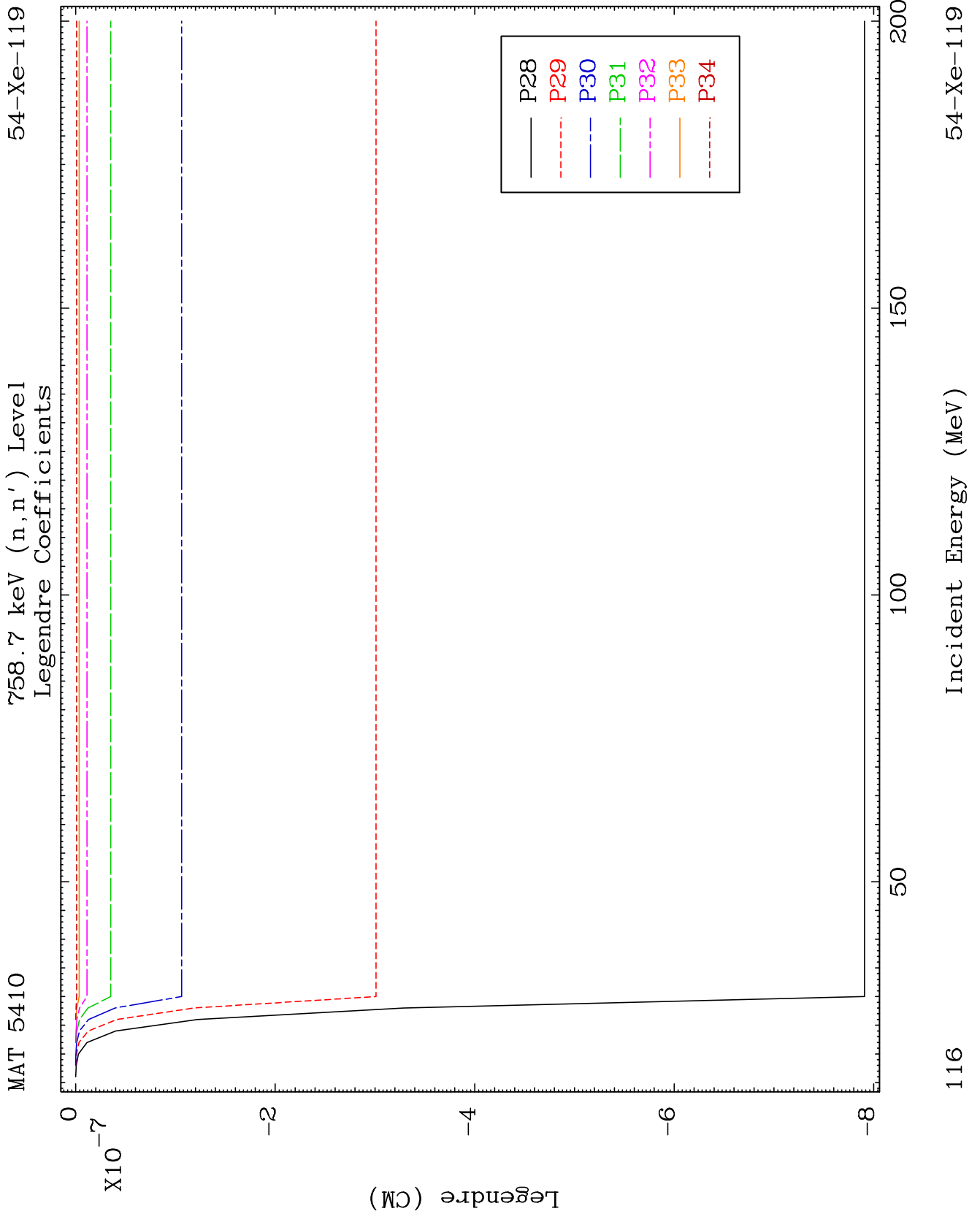
MAT 5410

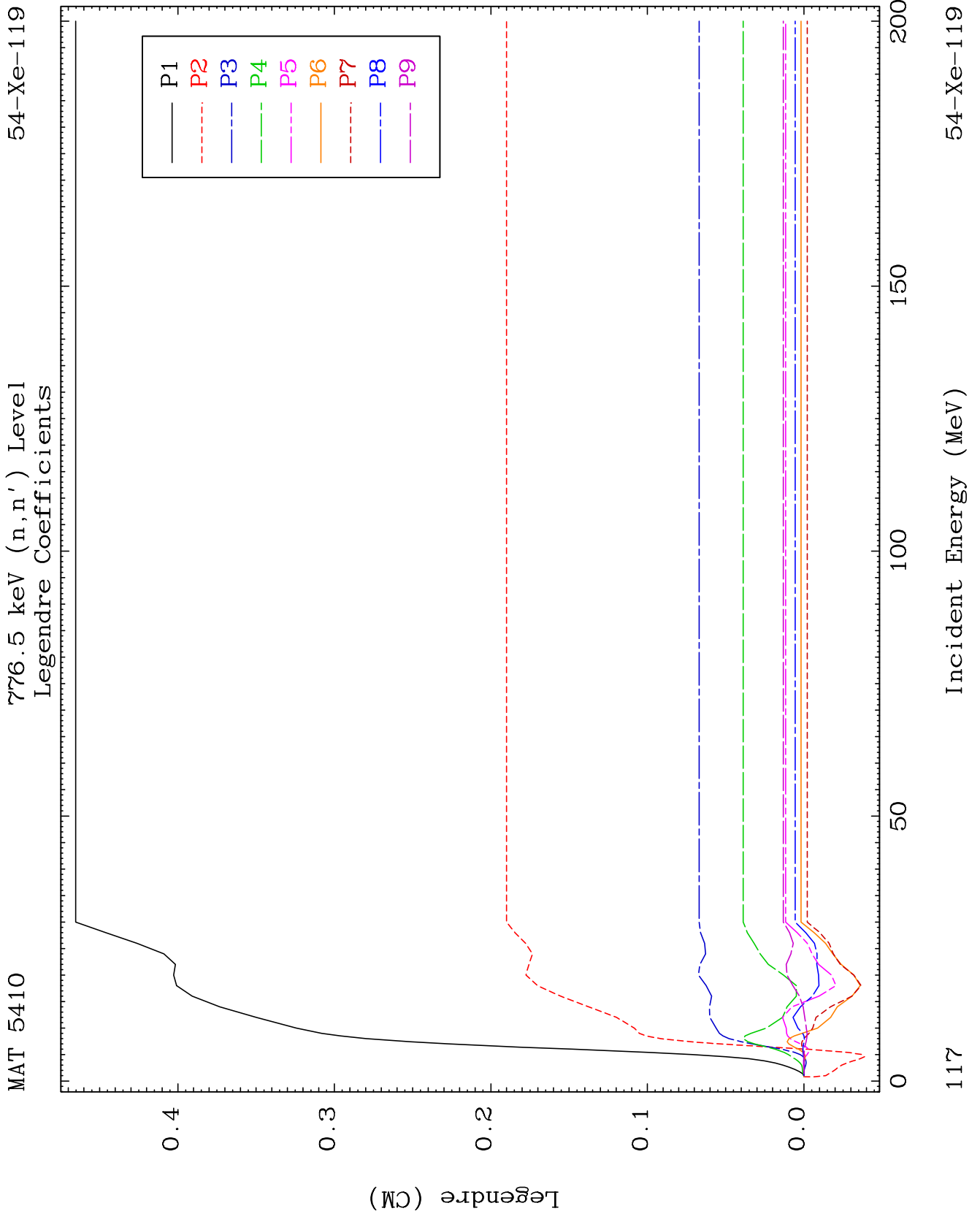
758.7 keV (n,n') Level  
Legendre Coefficients

54-Xe-119



115

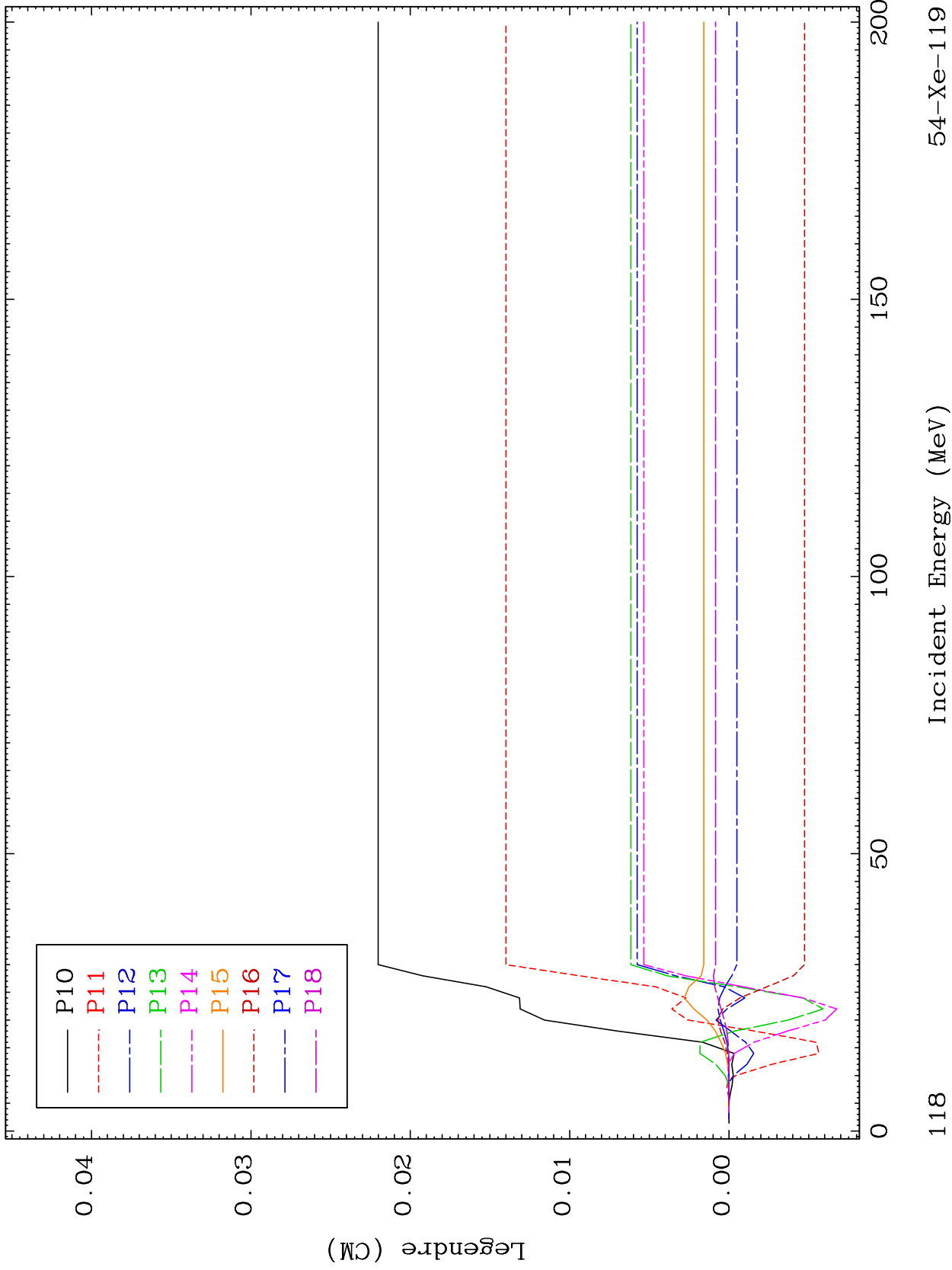




MAT 5410

776.5 keV (n,n') Level  
Legendre Coefficients

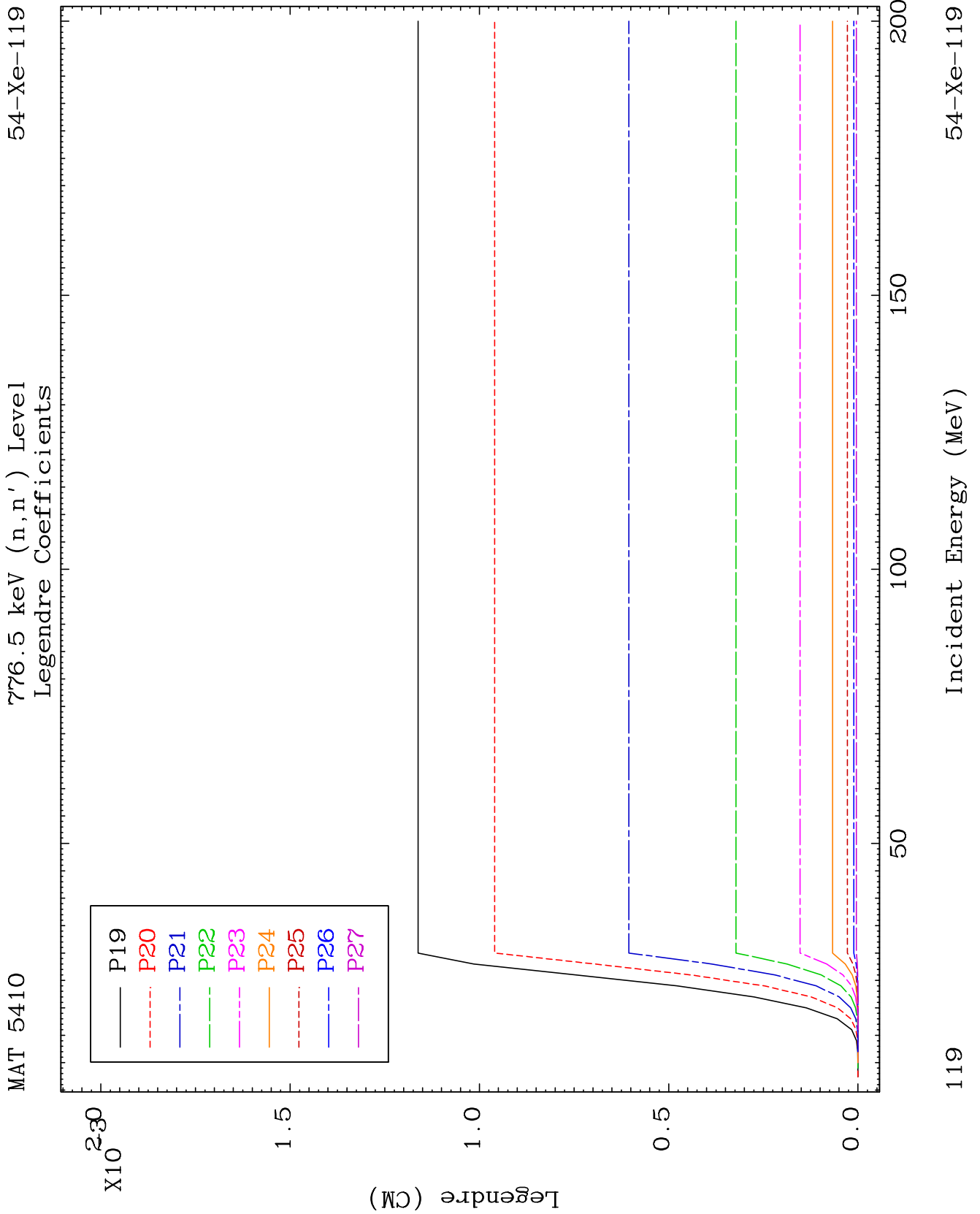
54-Xe-119



118

Incident Energy (MeV)

54-Xe-119

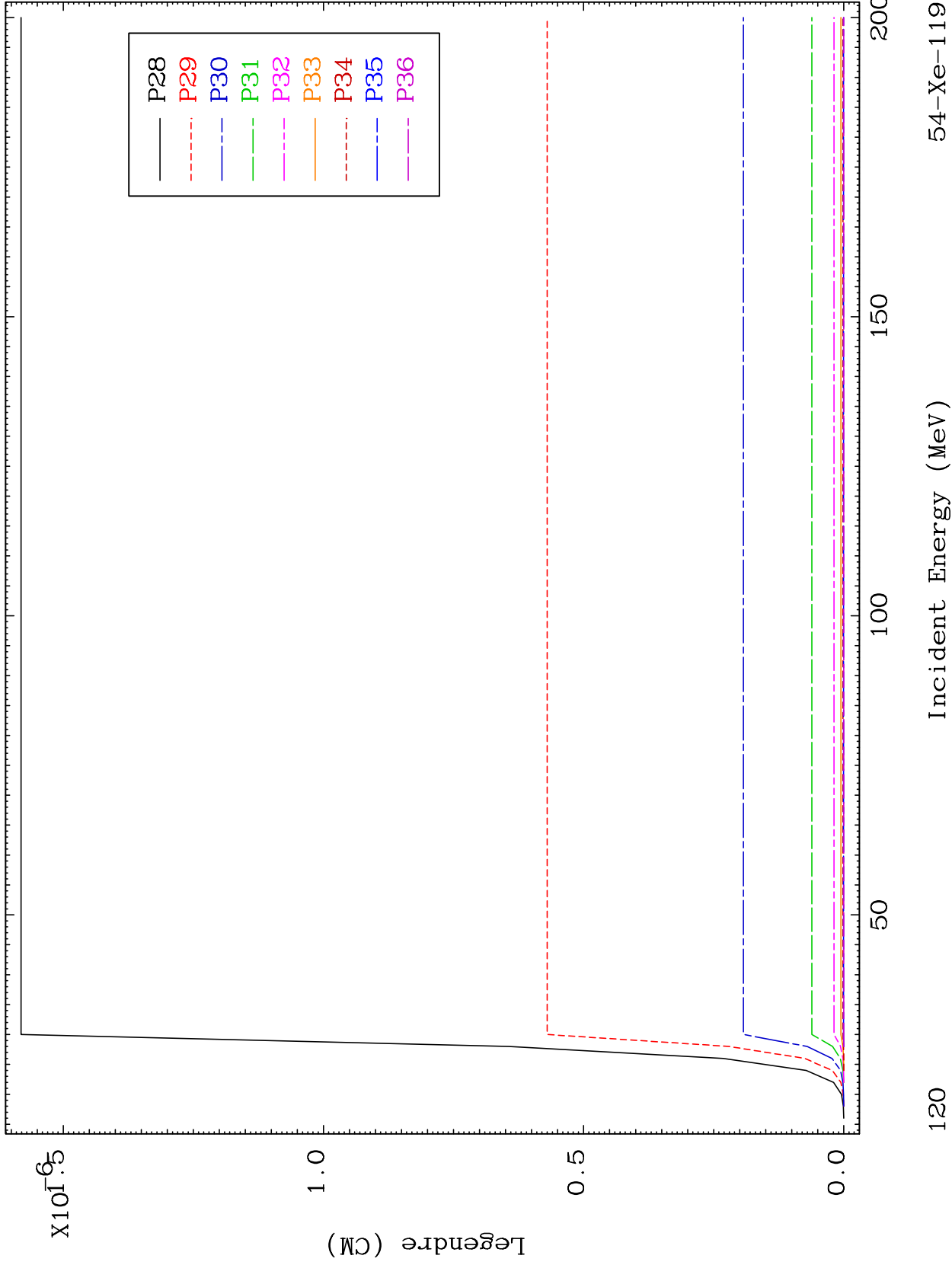




MAT 5410

776.5 keV (n, n') Level  
Legendre Coefficients

54-Xe-119



54-Xe-119

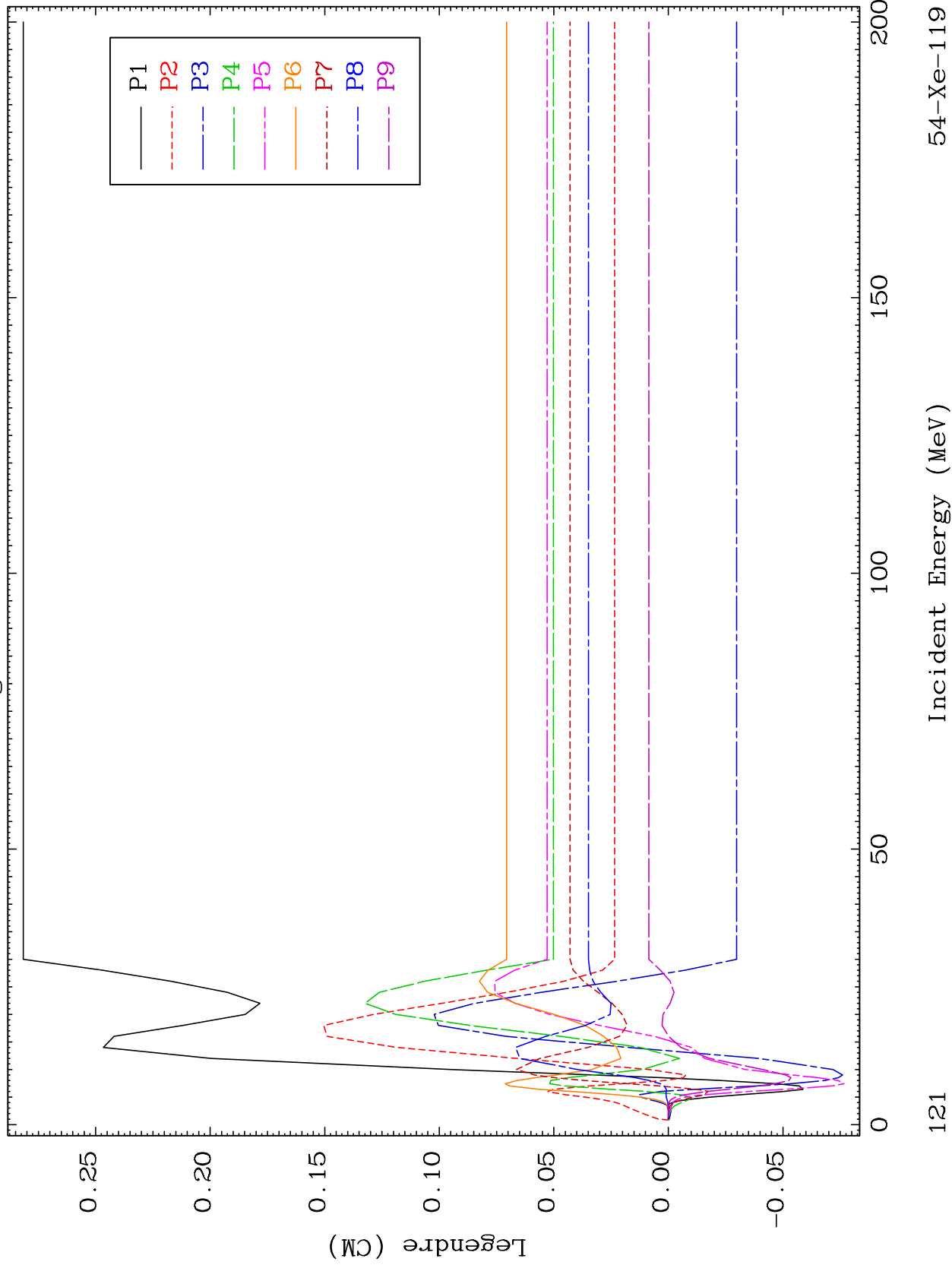
Incident Energy (MeV)

120

MAT 5410

816.0 keV (n,n') Level  
Legendre Coefficients

54-Xe-119

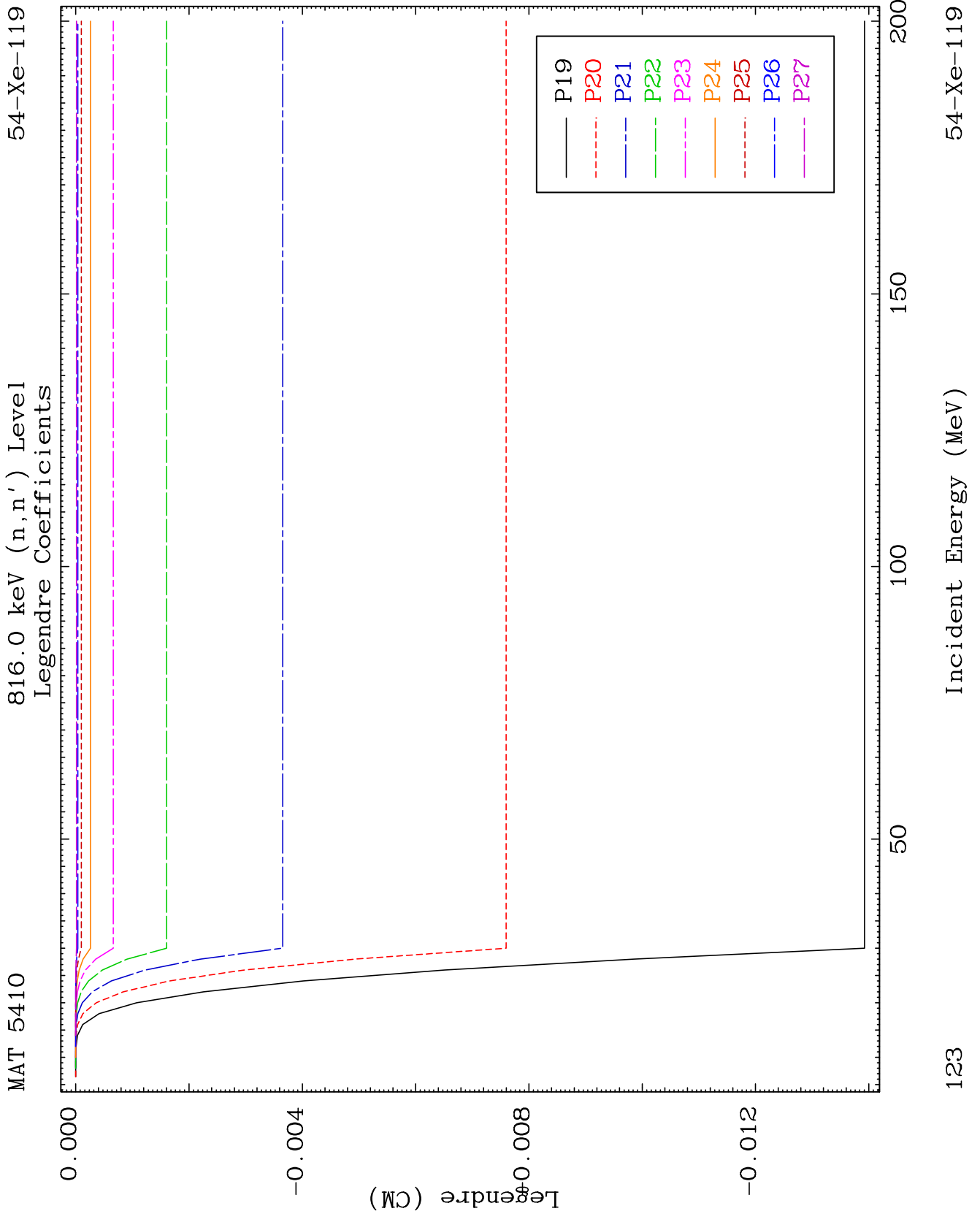


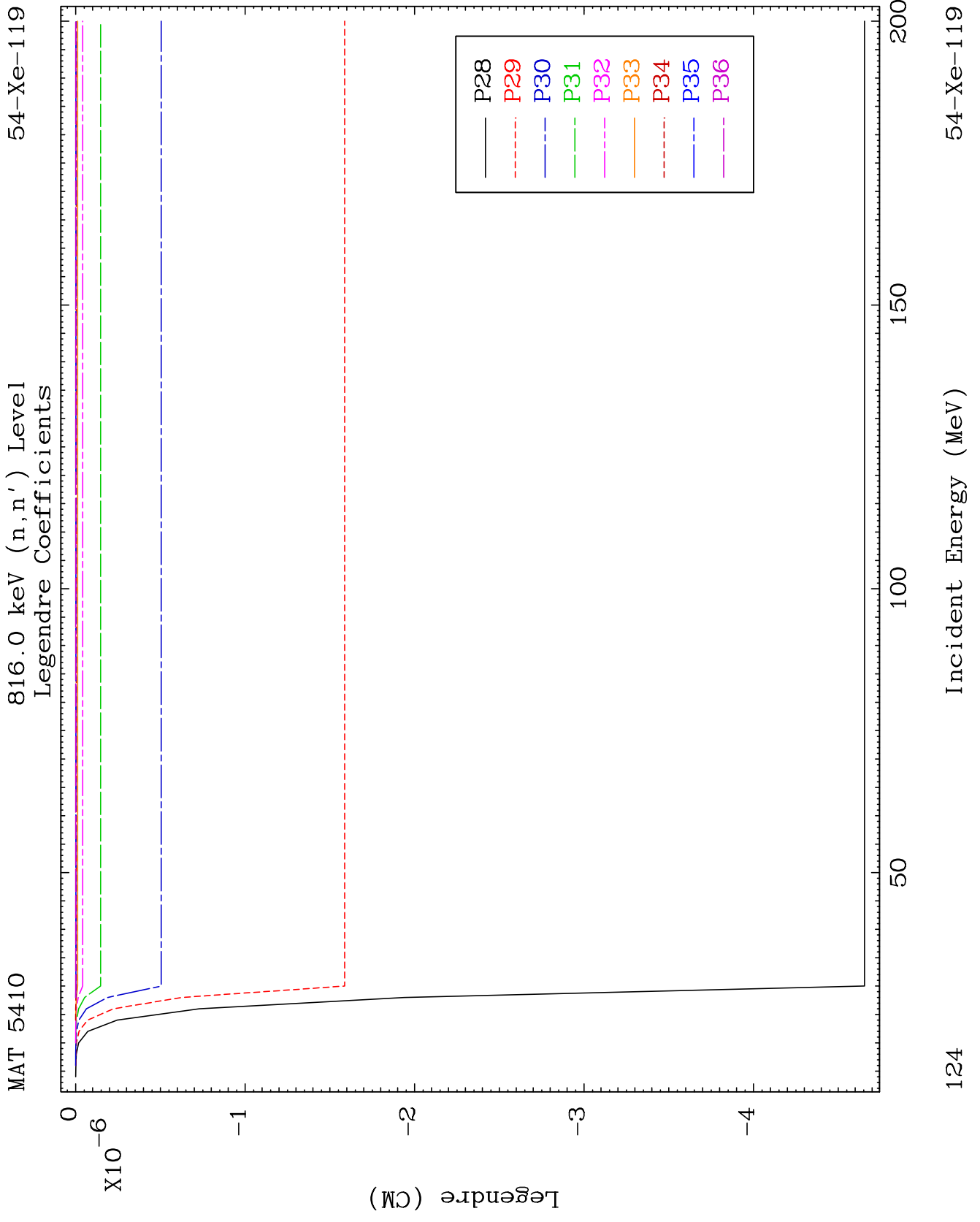
54-Xe-119

Incident Energy (MeV)

121



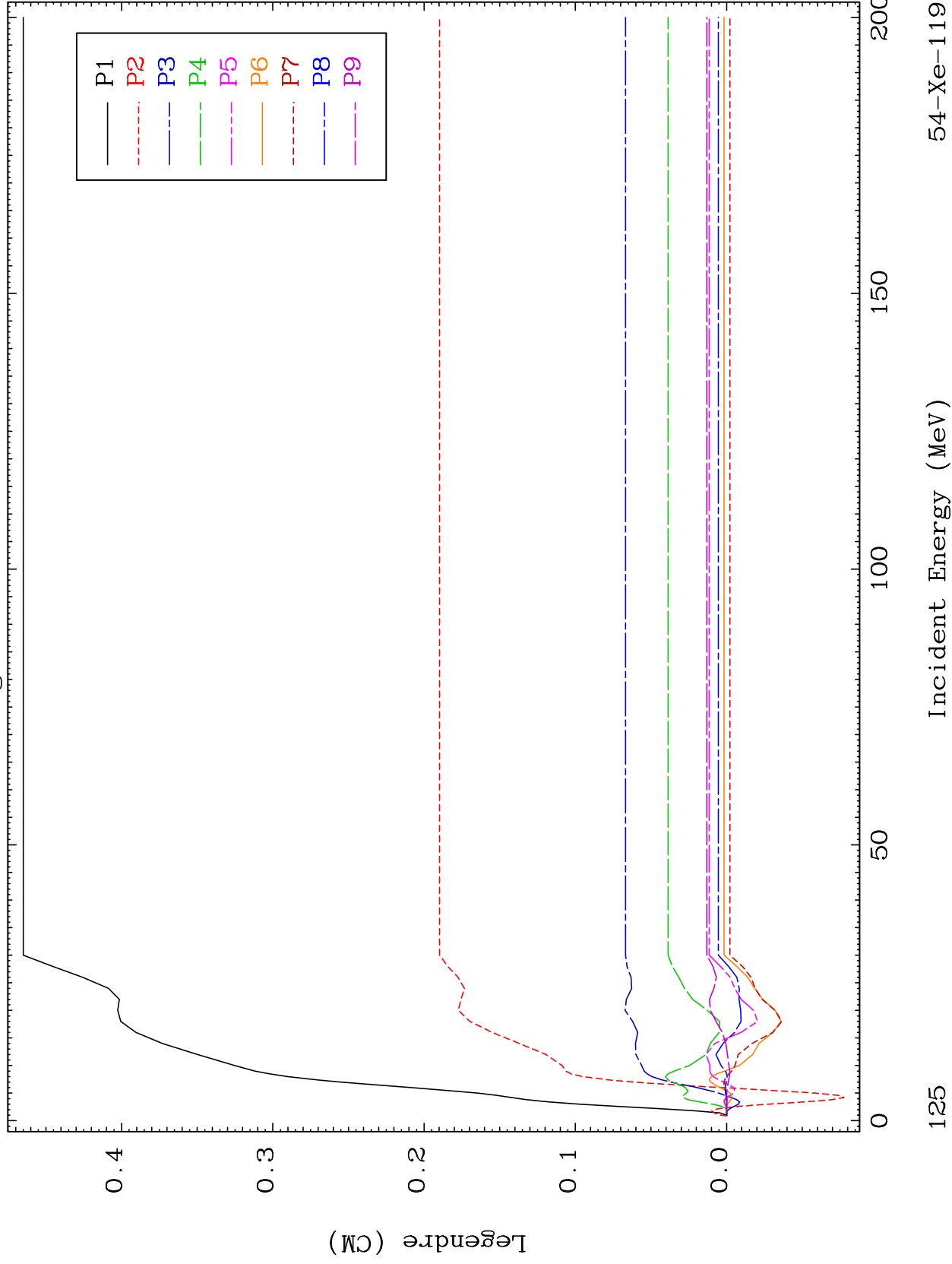




MAT 5410

843.7 keV (n,n') Level  
Legendre Coefficients

54-Xe-119



54-Xe-119

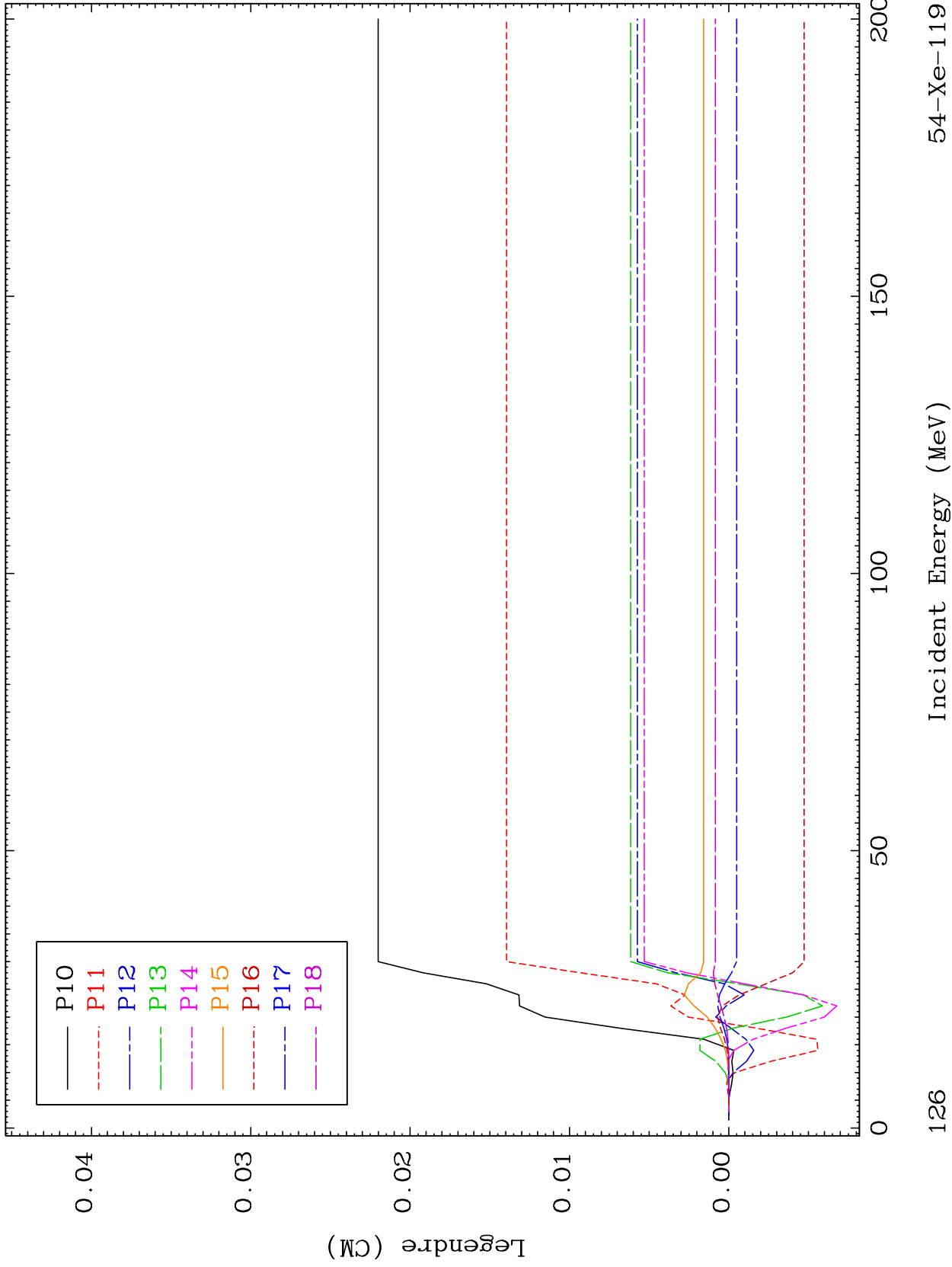
Incident Energy (MeV)

125

MAT 5410

843.7 keV (n, n') Level  
Legendre Coefficients

54-Xe-119



54-Xe-119

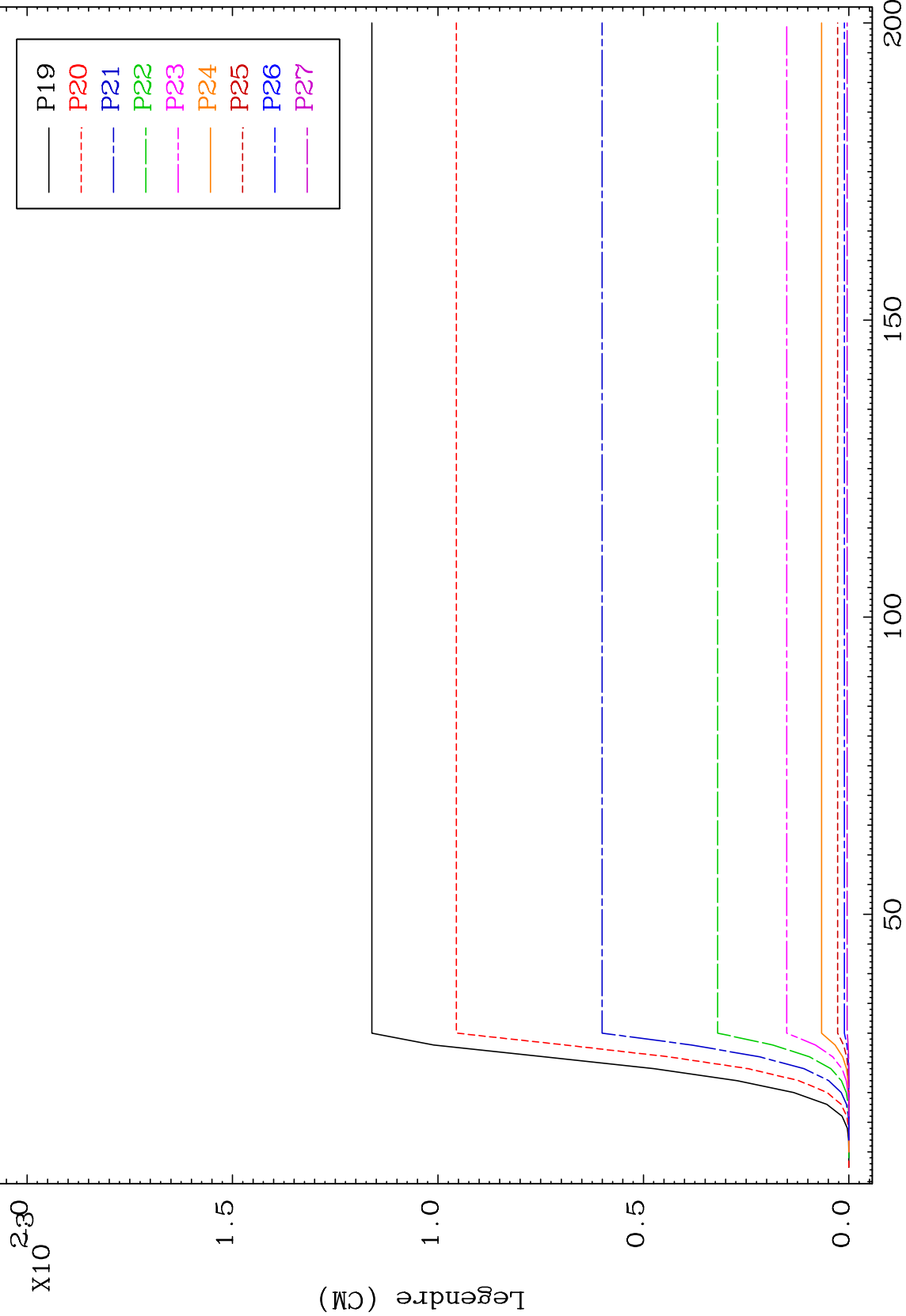
Incident Energy (MeV)

126

MAT 5410

843.7 keV (n,n') Level  
Legendre Coefficients

54-Xe-119



127

Incident Energy (MeV)

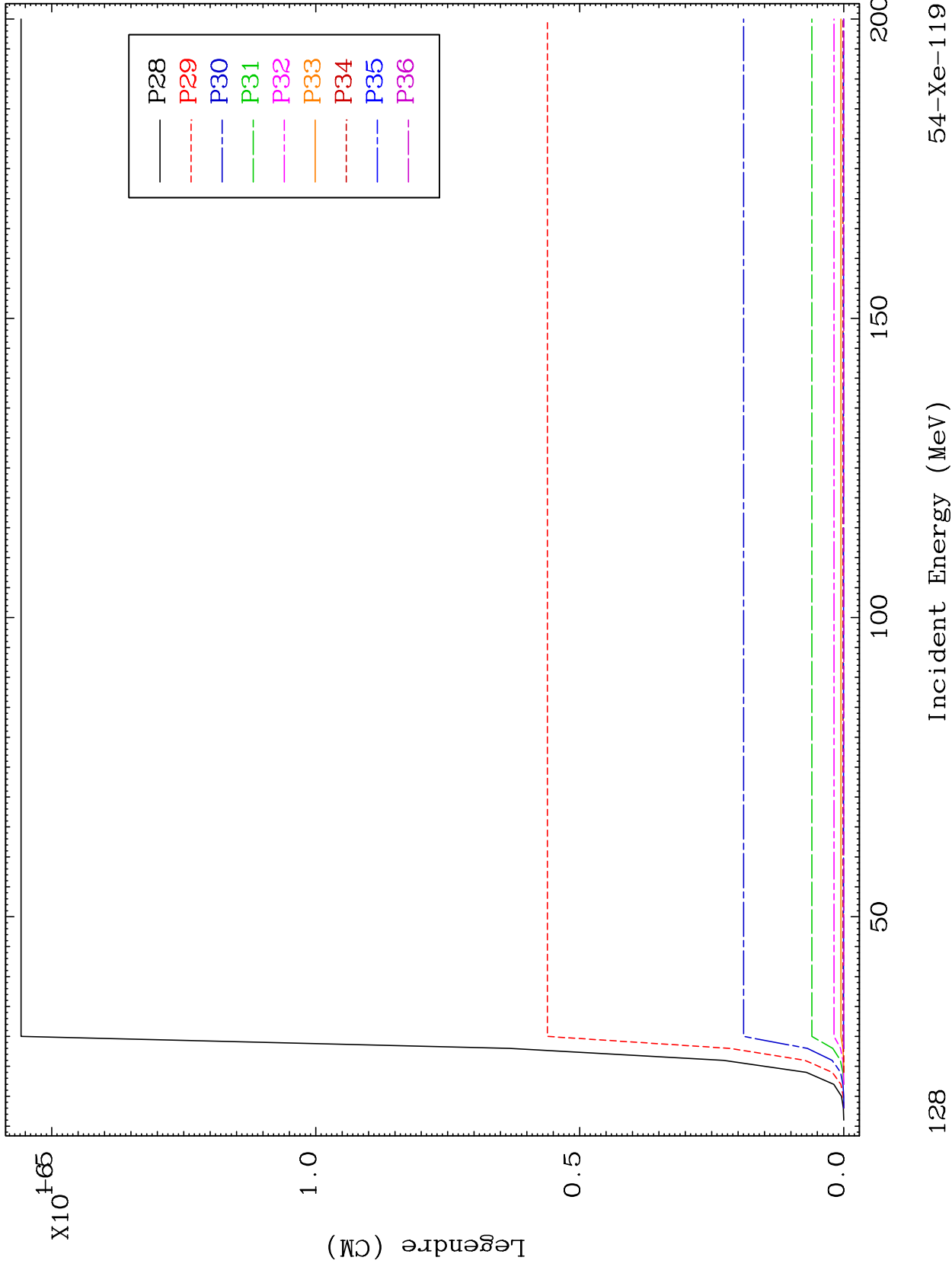
54-Xe-119



MAT 5410

843.7 keV (n,n') Level  
Legendre Coefficients

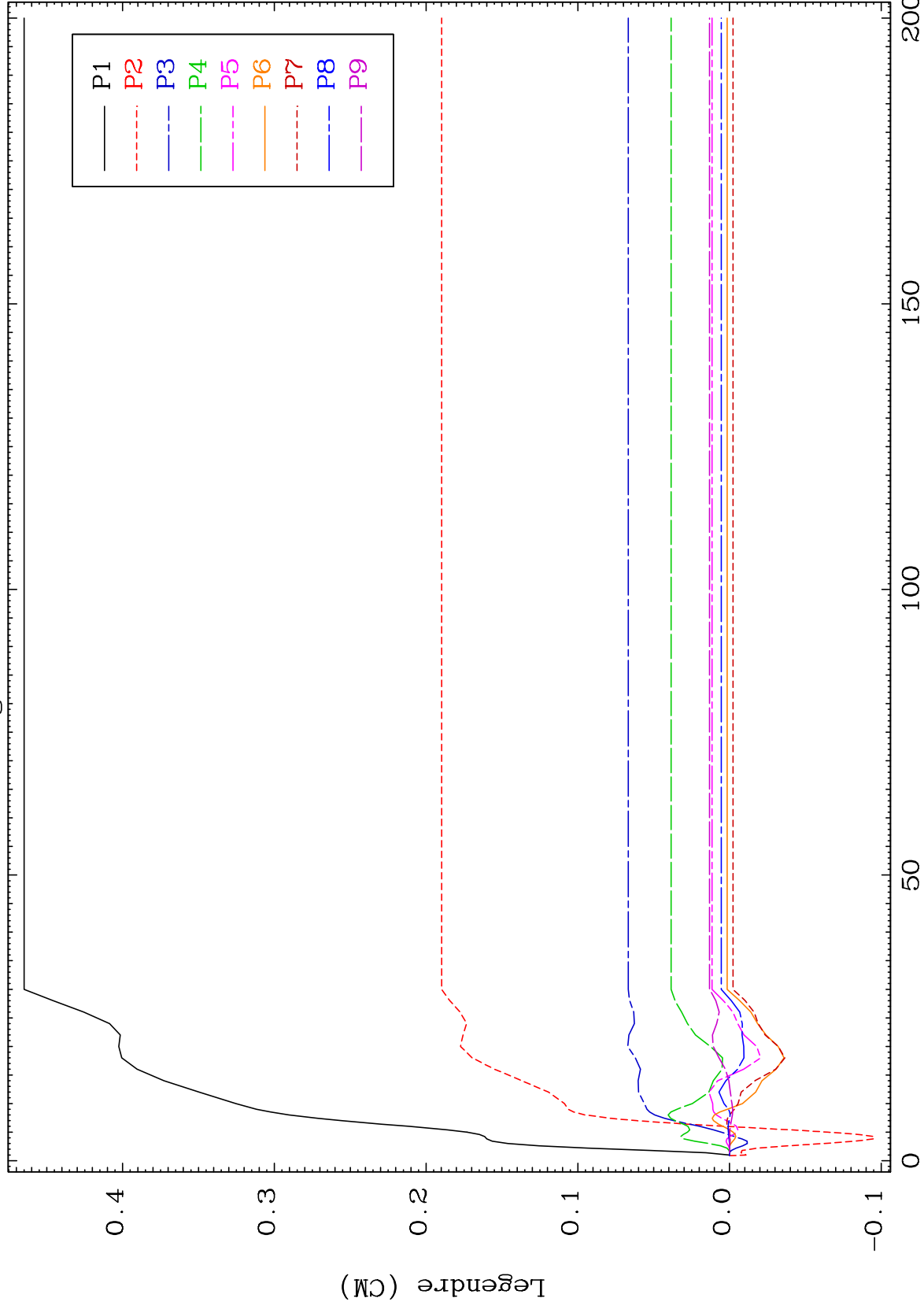
54-Xe-119



MAT 5410

853.6 keV (n,n') Level  
Legendre Coefficients

54-Xe-119



129

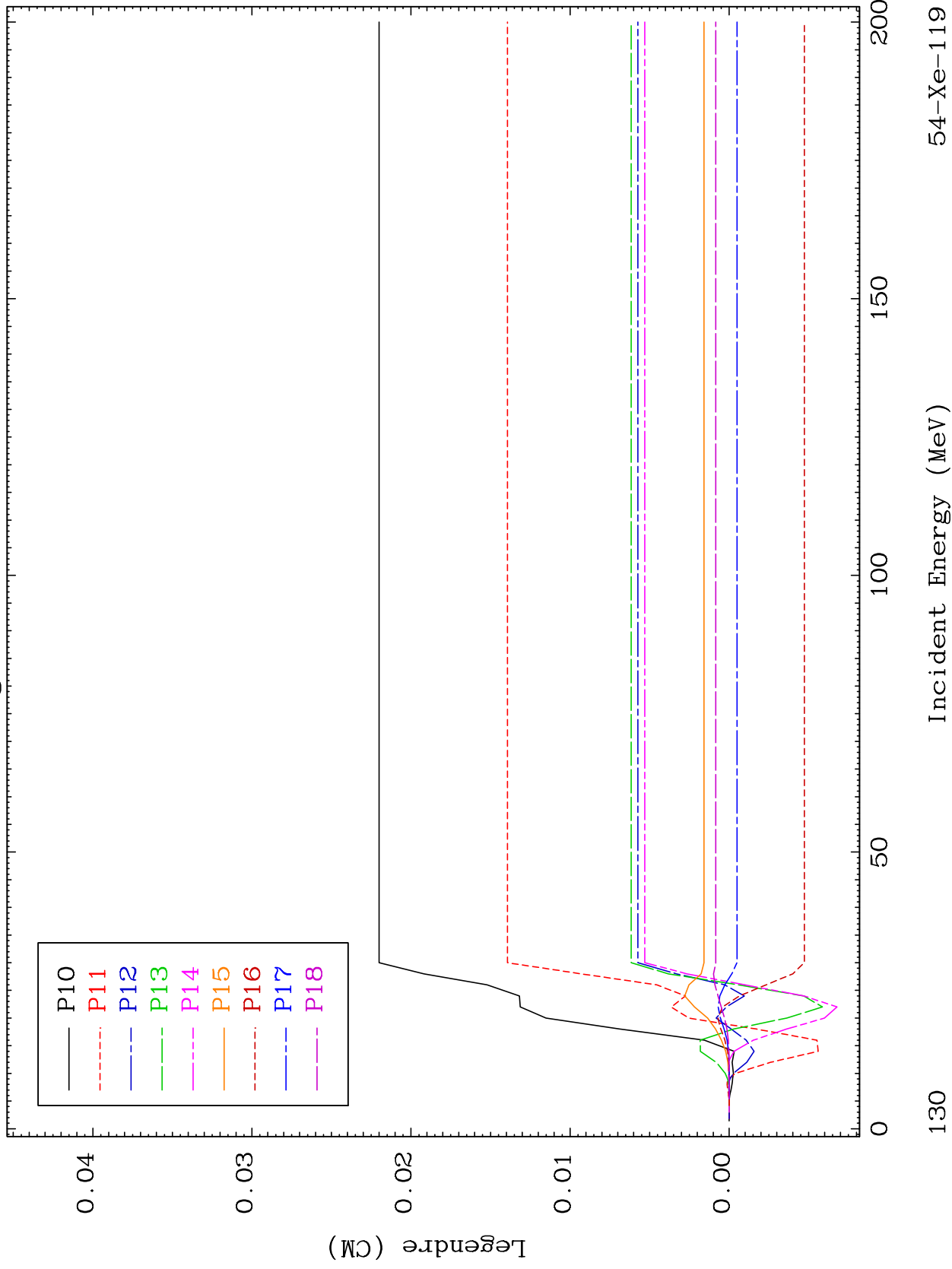
Incident Energy (MeV)

54-Xe-119

MAT 5410

853.6 keV (n,n') Level  
Legendre Coefficients

54-Xe-119



54-Xe-119

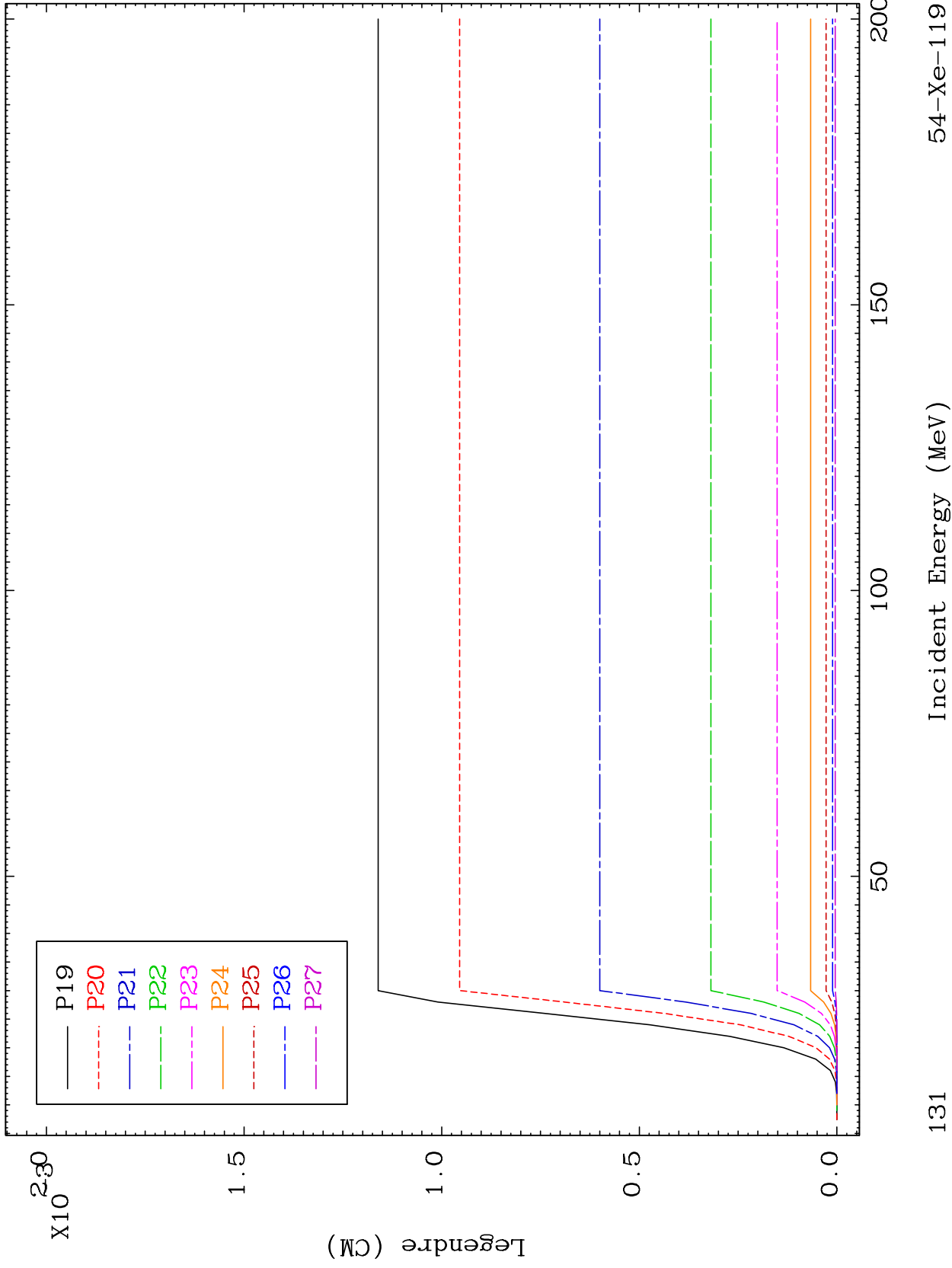
Incident Energy (MeV)

130

MAT 5410

853.6 keV (n,n') Level  
Legendre Coefficients

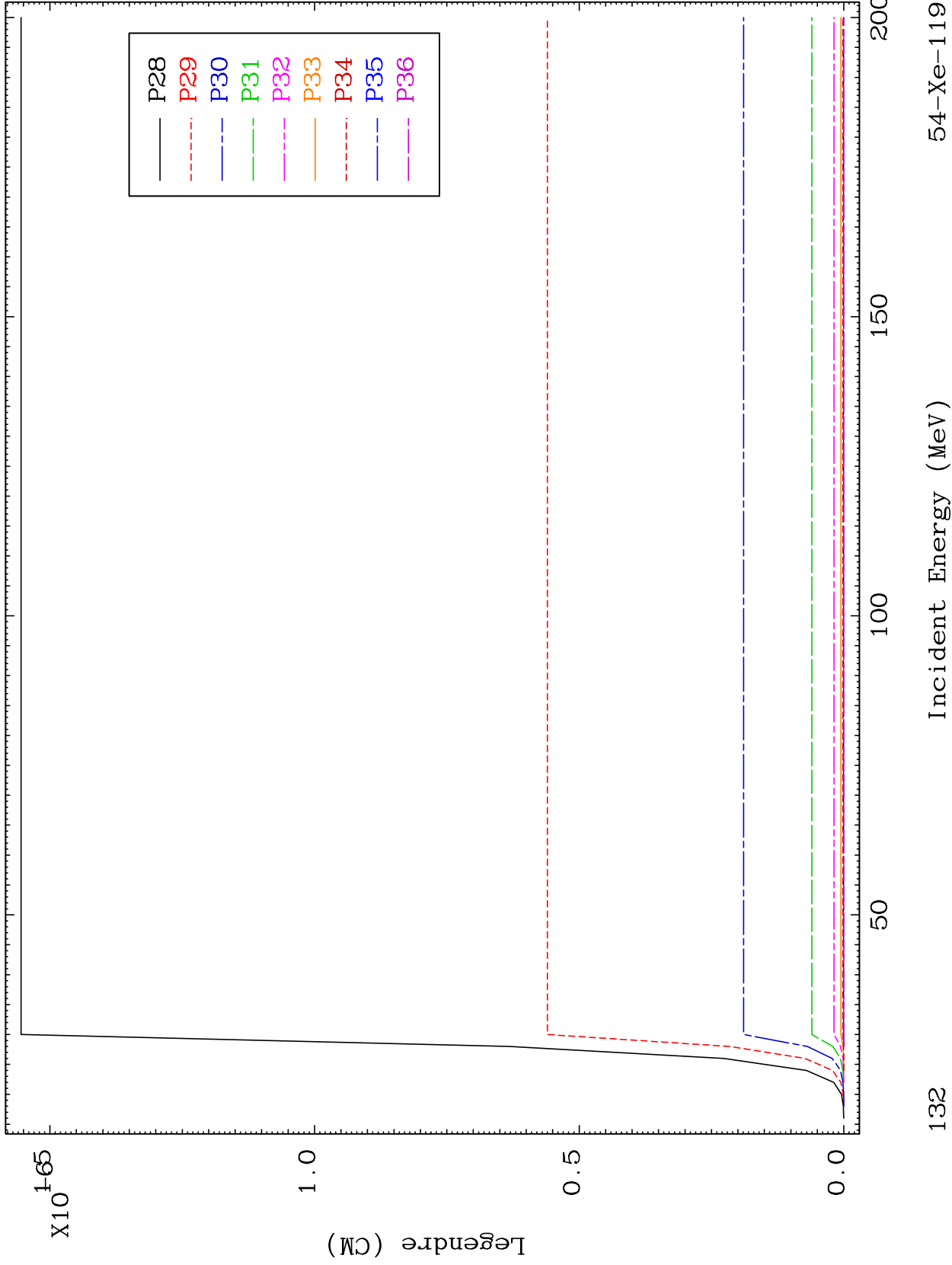
54-Xe-119



MAT 5410

853.6 keV (n,n') Level  
Legendre Coefficients

54-Xe-119



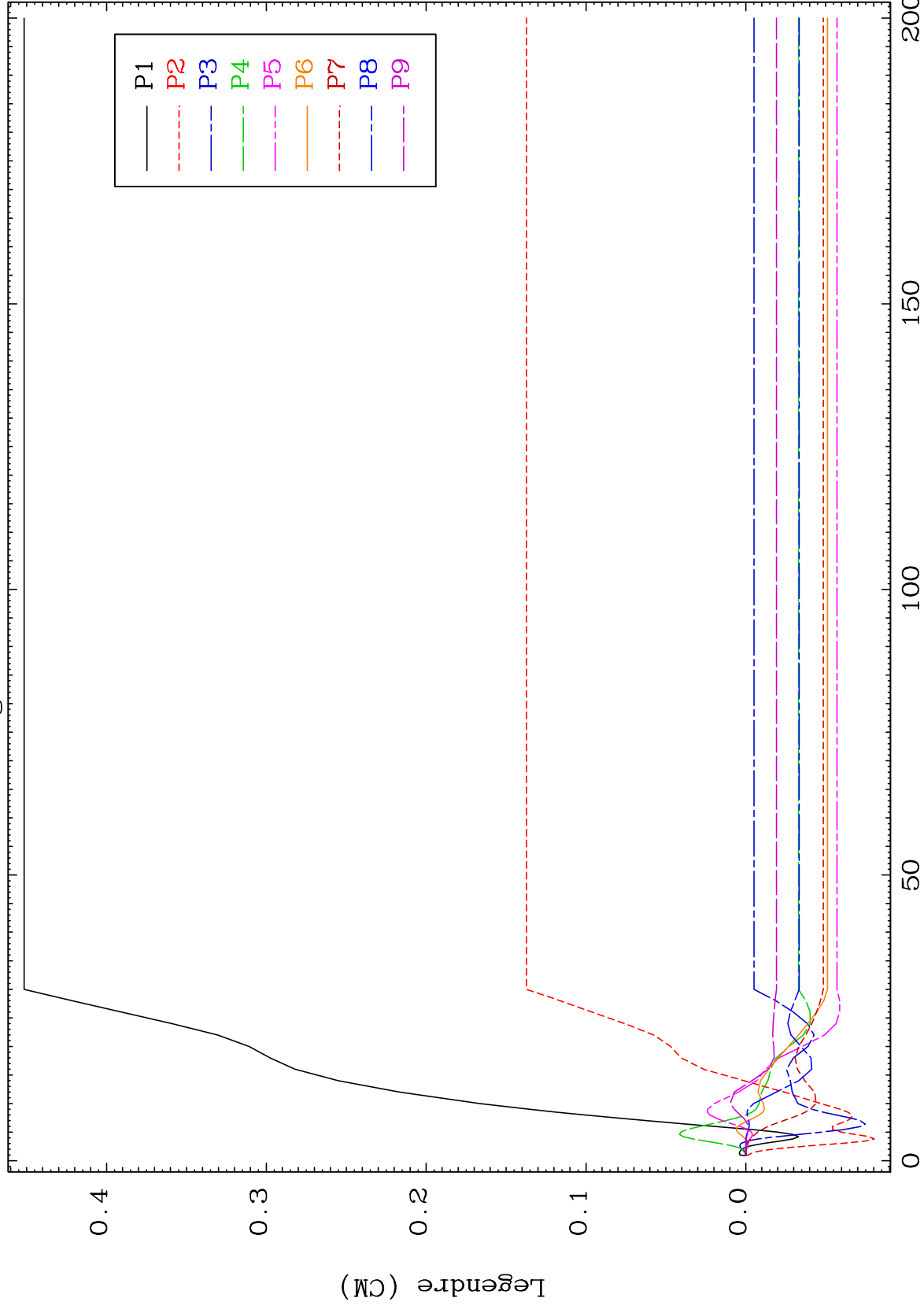
132

54-Xe-119

MAT 5410

855.0 keV (n,n') Level  
Legendre Coefficients

54-Xe-119



54-Xe-119

Incident Energy (MeV)

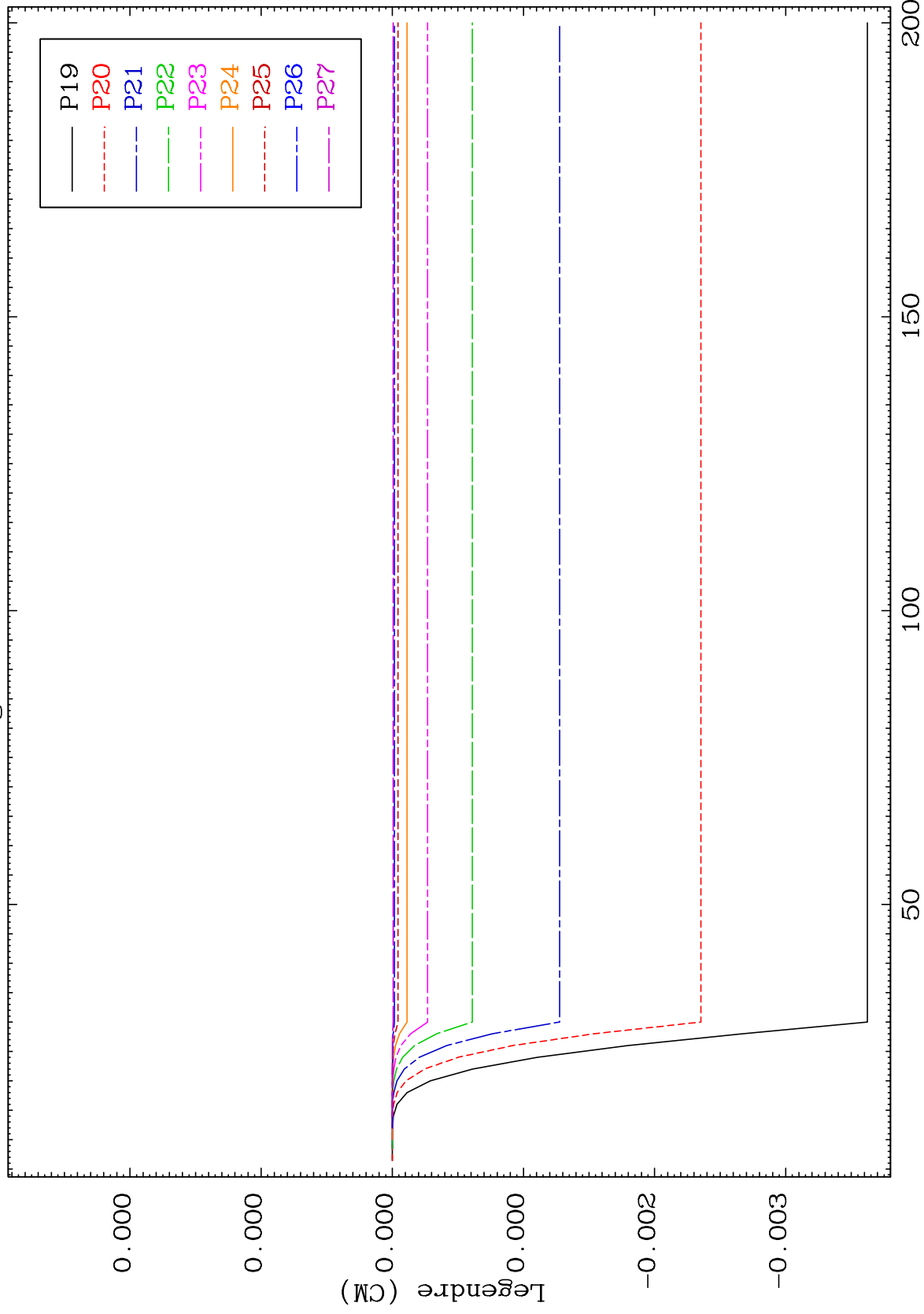
133



MAT 5410

855.0 keV (n,n') Level  
Legendre Coefficients

54-Xe-119

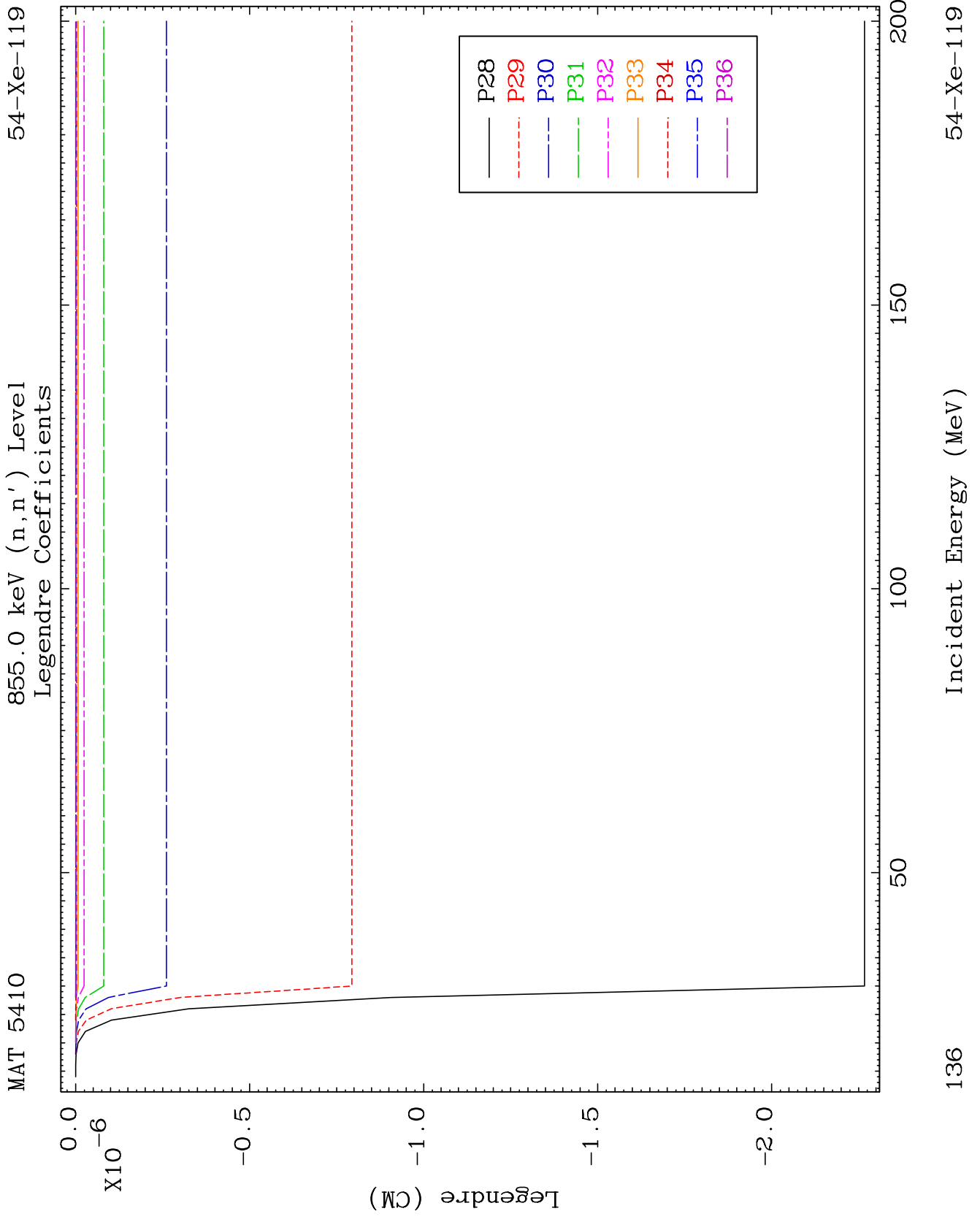


135

Incident Energy (MeV)

54-Xe-119

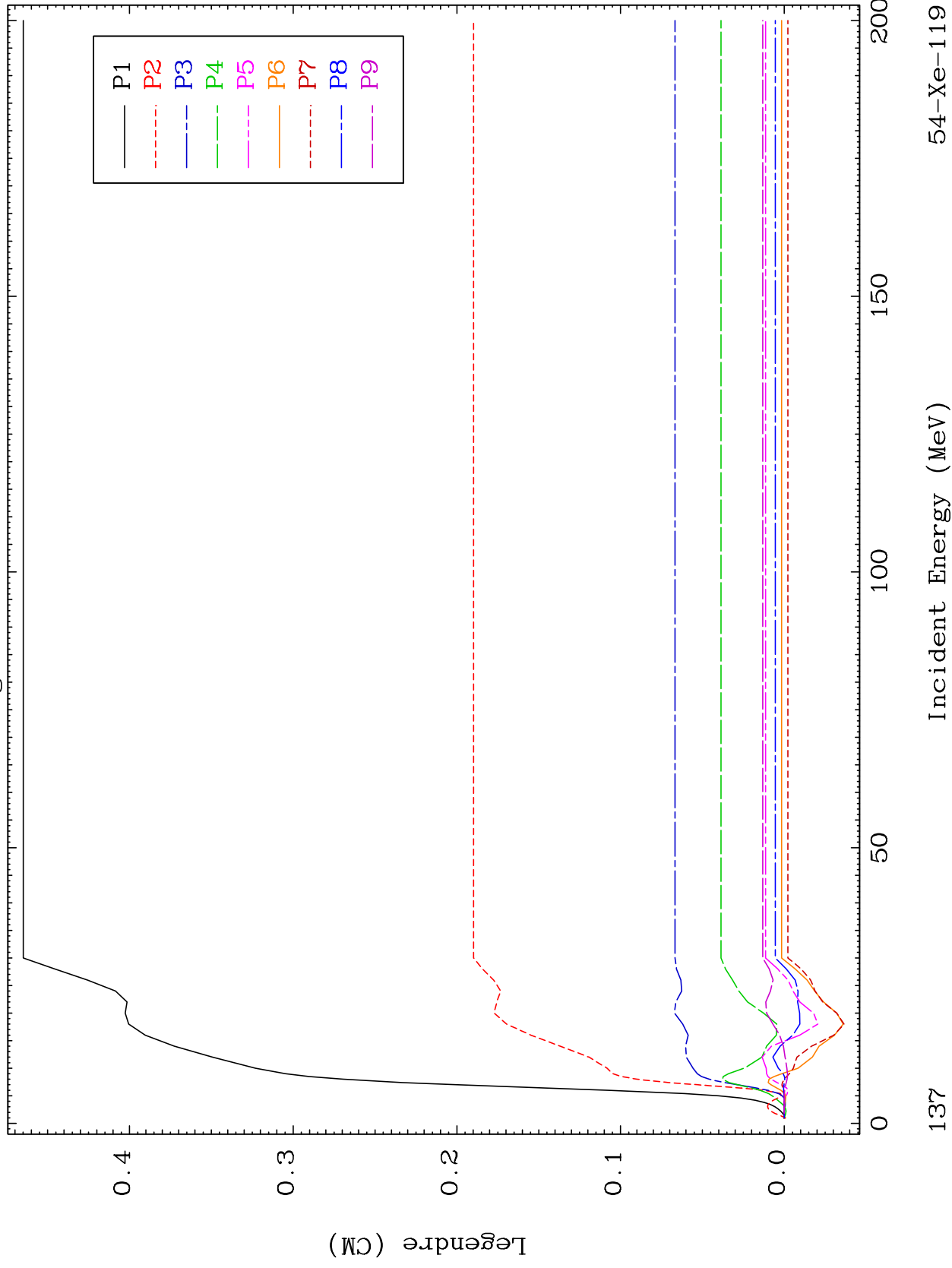




MAT 5410

860.6 keV (n,n') Level  
Legendre Coefficients

54-Xe-119



54-Xe-119

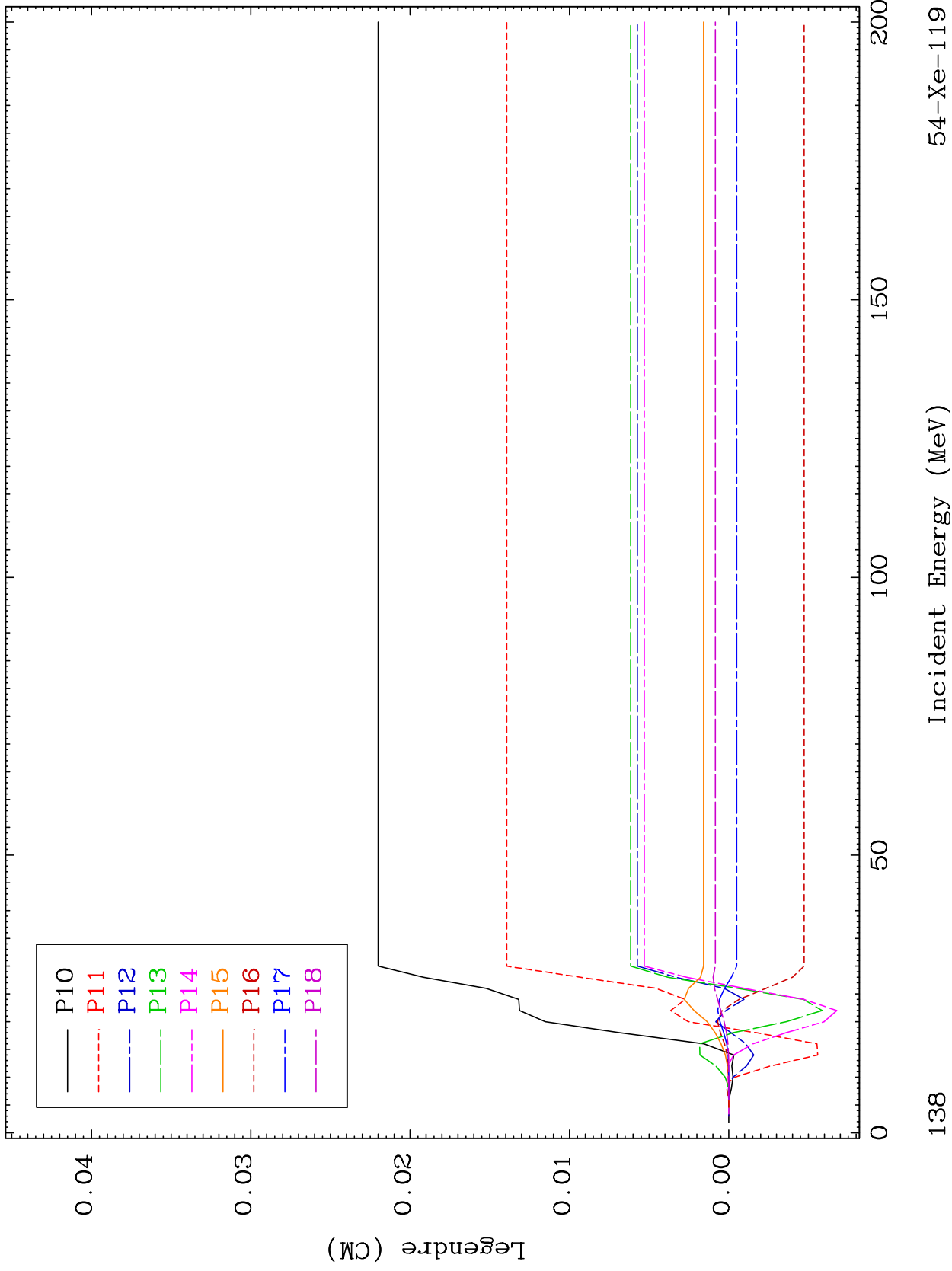
Incident Energy (MeV)

137

MAT 5410

860.6 keV (n,n') Level  
Legendre Coefficients

54-Xe-119



138

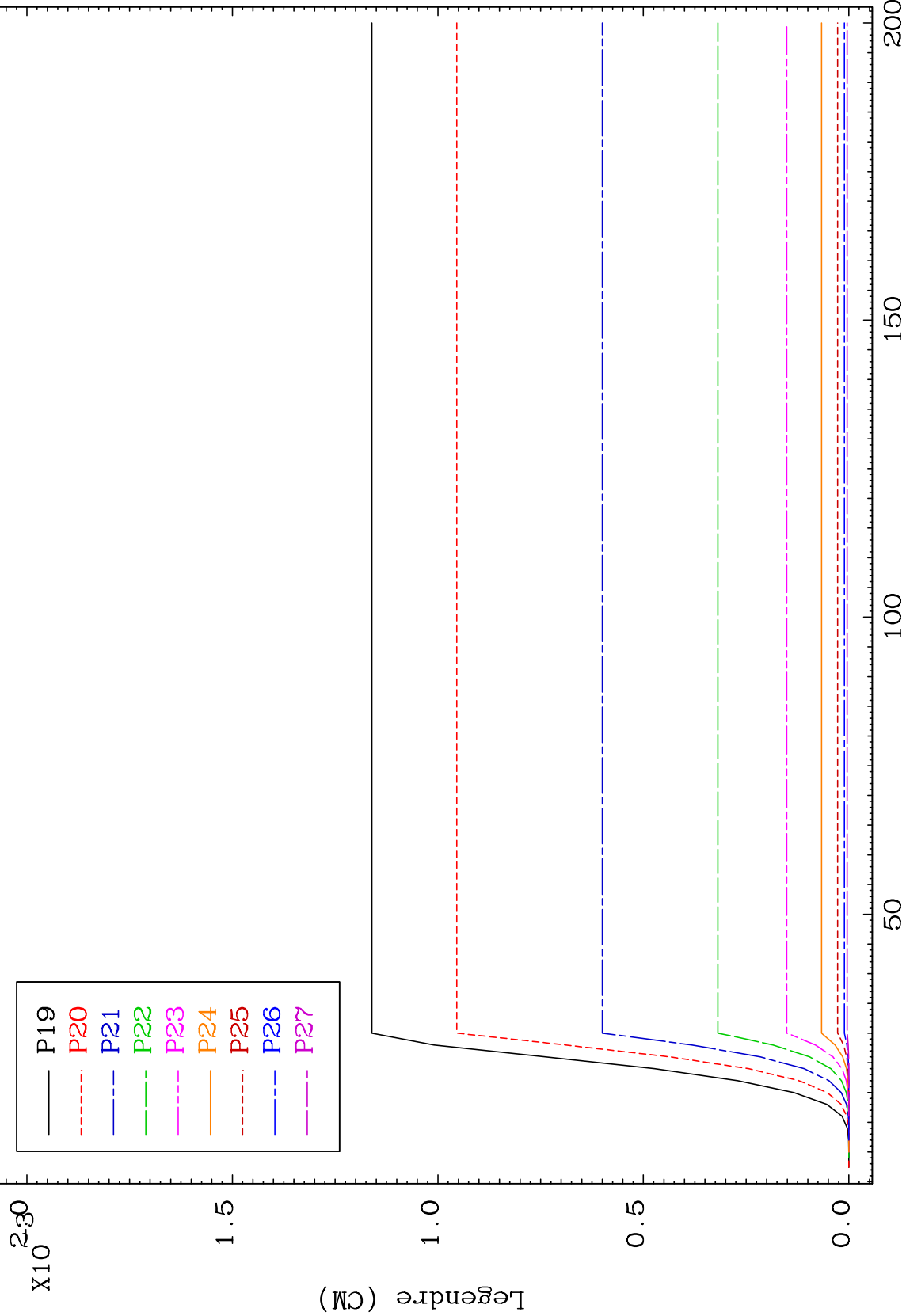
Incident Energy (MeV)

54-Xe-119

MAT 5410

860.6 keV (n,n') Level  
Legendre Coefficients

54-Xe-119



139

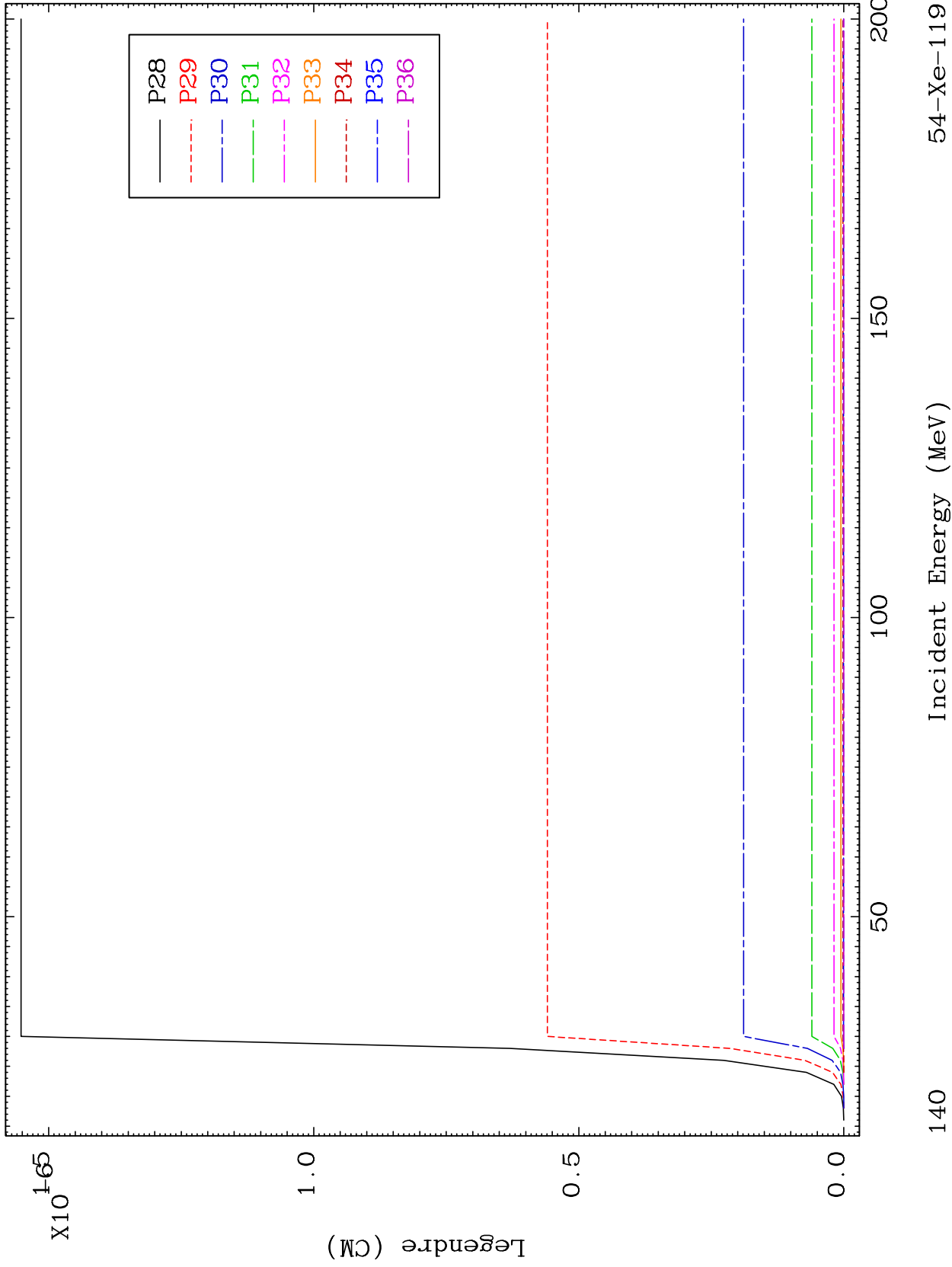
Incident Energy (MeV)

54-Xe-119

MAT 5410

860.6 keV (n,n') Level  
Legendre Coefficients

54-Xe-119

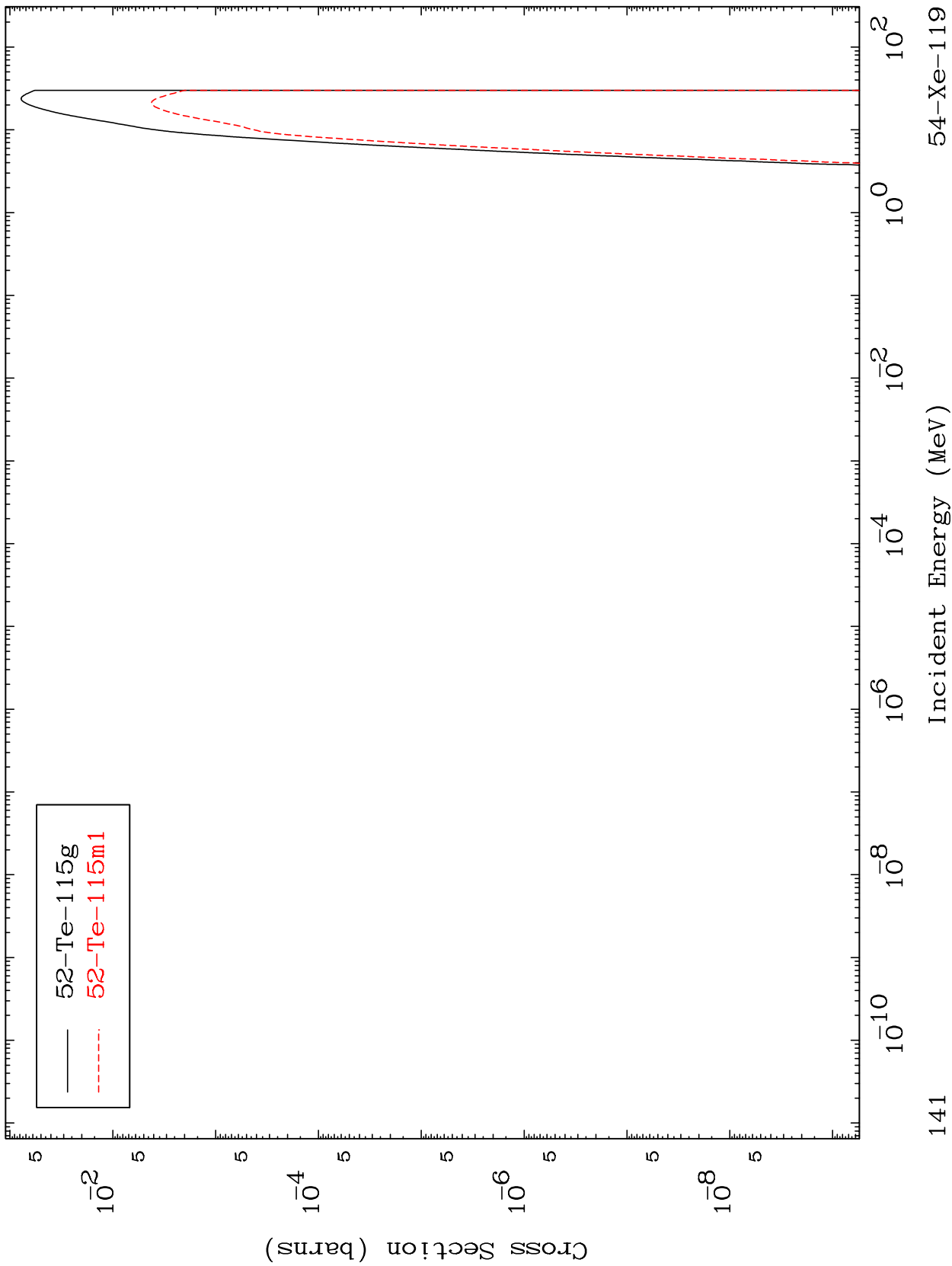


MAT 5410

$(n, n')$   $\alpha$

54-Xe-119

Radionuclide Production Cross Section



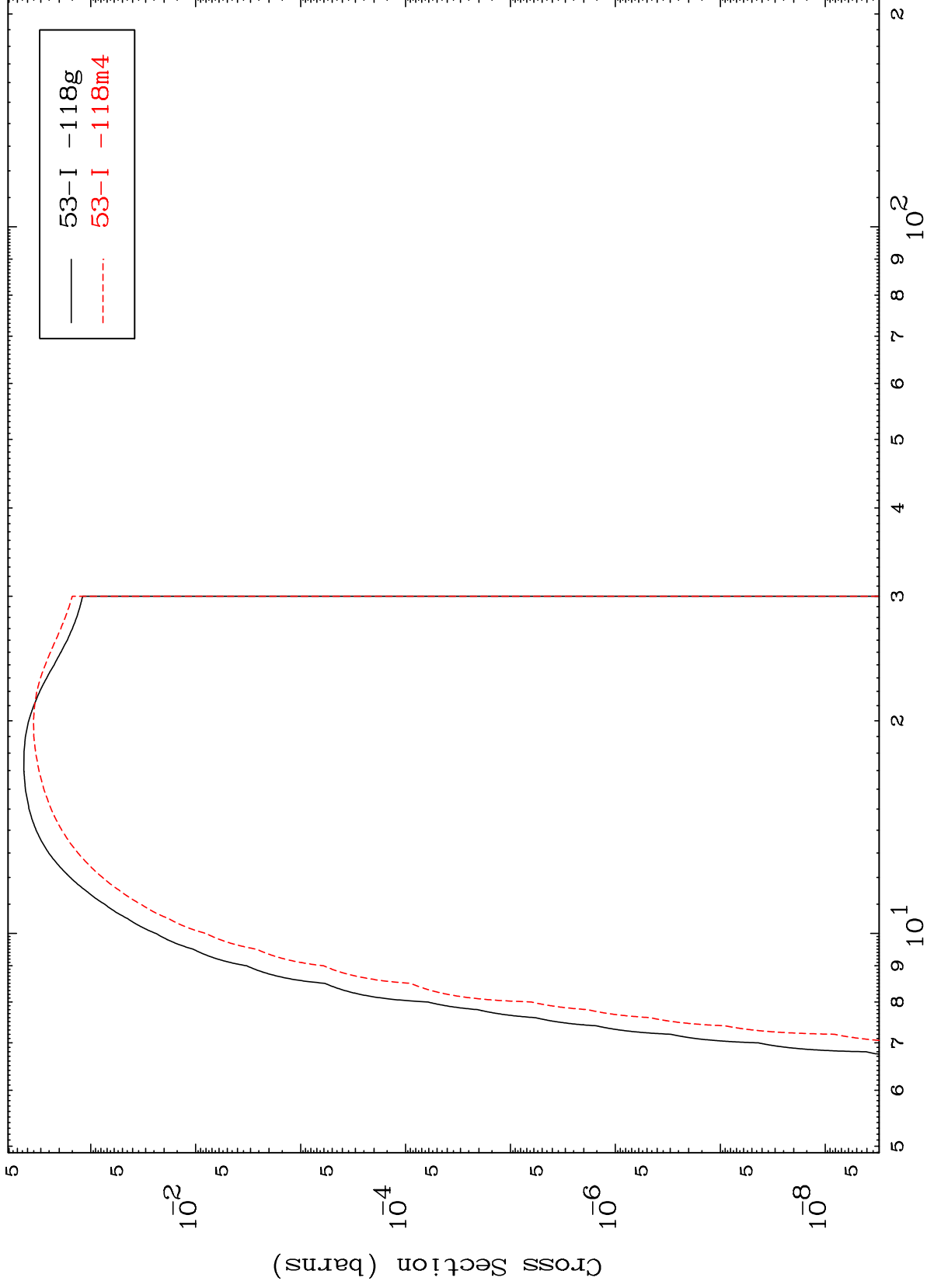
52-Te-115g  
52-Te-115m1

MAT 5410

(n,n') p

54-Xe-119

Radionuclide Production Cross Section



142

Incident Energy (MeV)

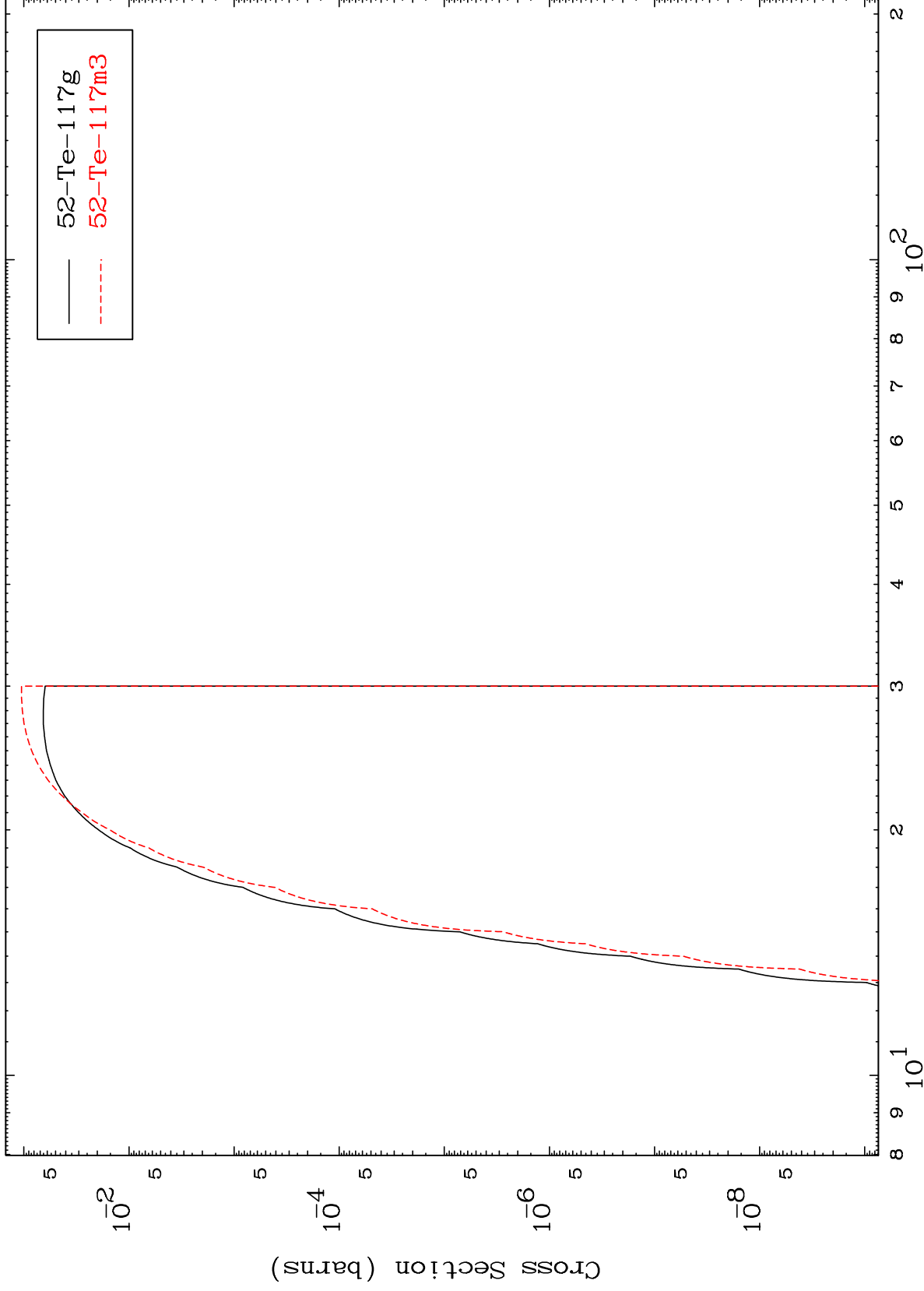
54-Xe-119

MAT 5410

(n,2n) p

54-Xe-119

Radionuclide Production Cross Section



143

Incident Energy (MeV)

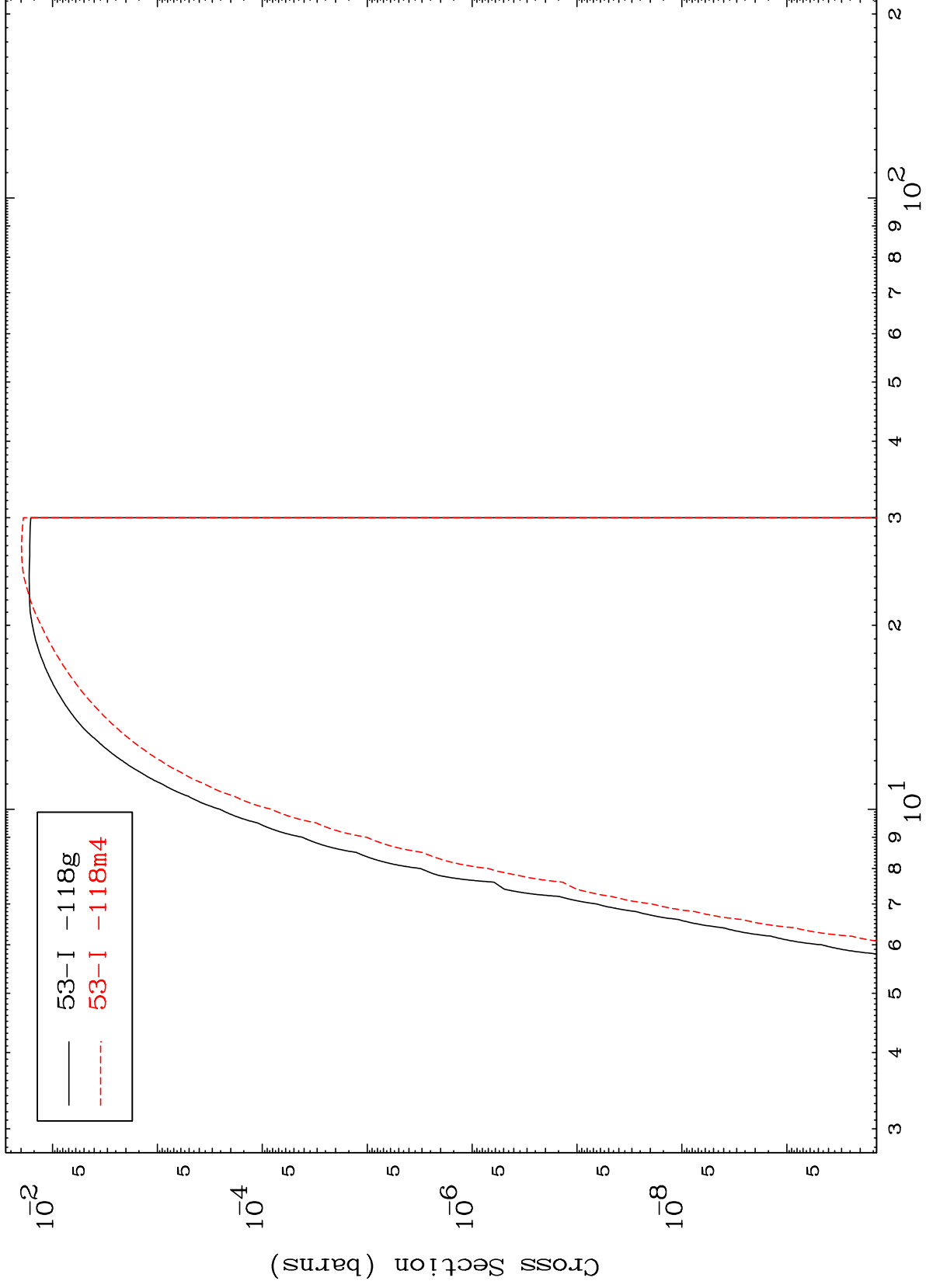
54-Xe-119



MAT 5410

54-Xe-119

(n,d)  
Radionuclide Production Cross Section



54-Xe-119

Incident Energy (MeV)

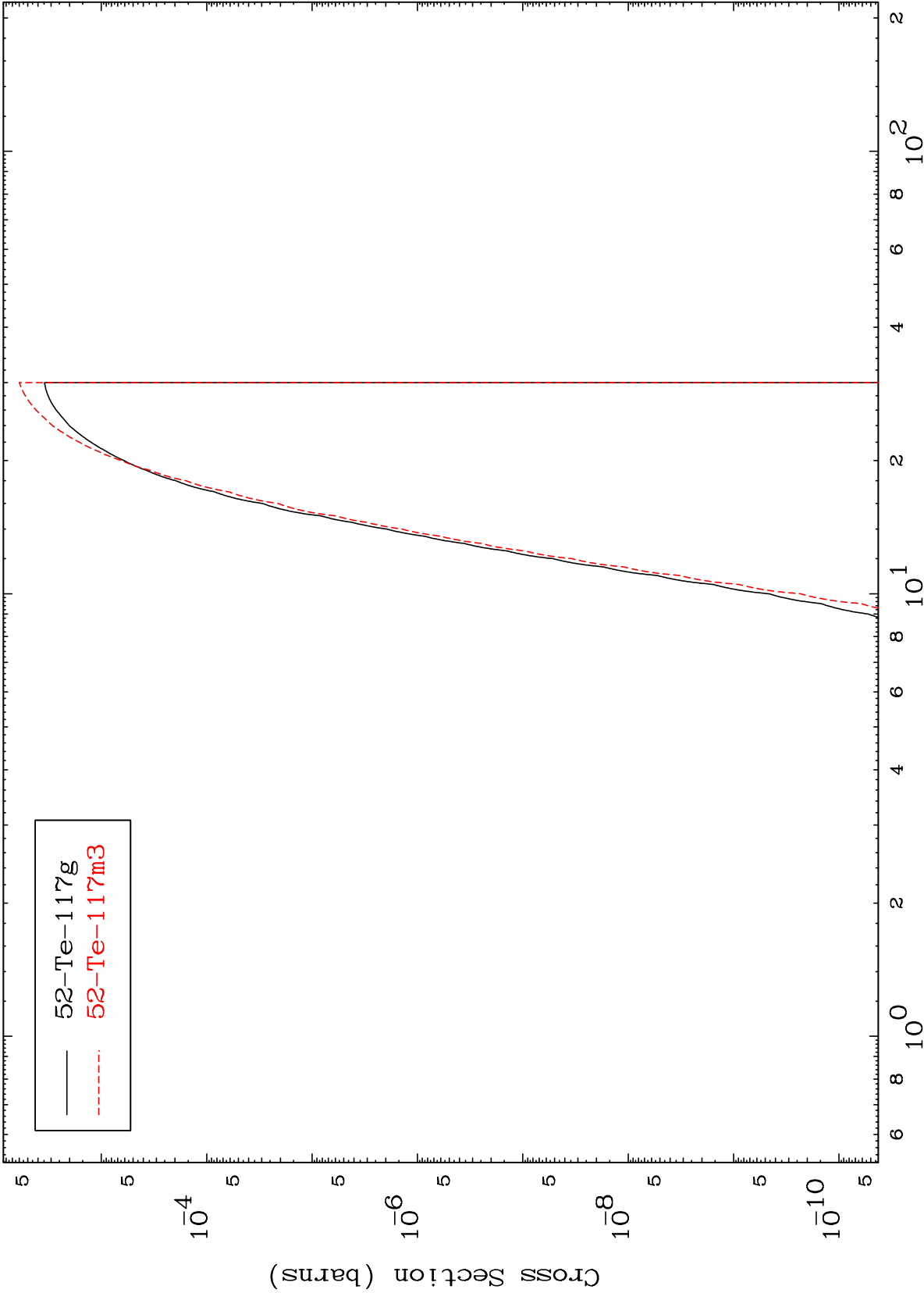
144

MAT 5410

(n,He-3)

54-Xe-119

Radionuclide Production Cross Section



145

Incident Energy (MeV)

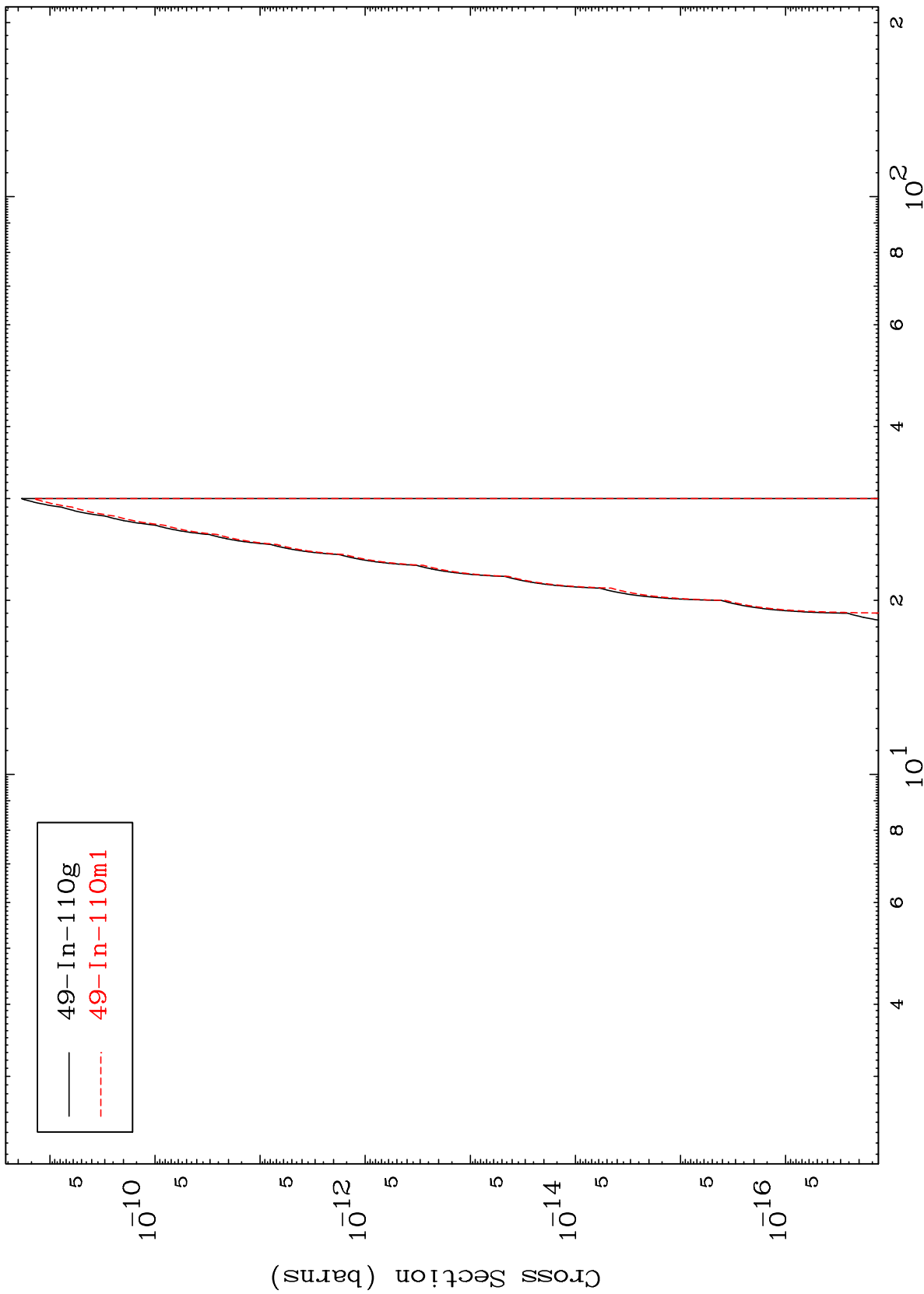
54-Xe-119

MAT 5410

(n,d) 2 $\alpha$

54-Xe-119

Radionuclide Production Cross Section



49-In-110g  
49-In-110m1

146

Incident Energy (MeV)

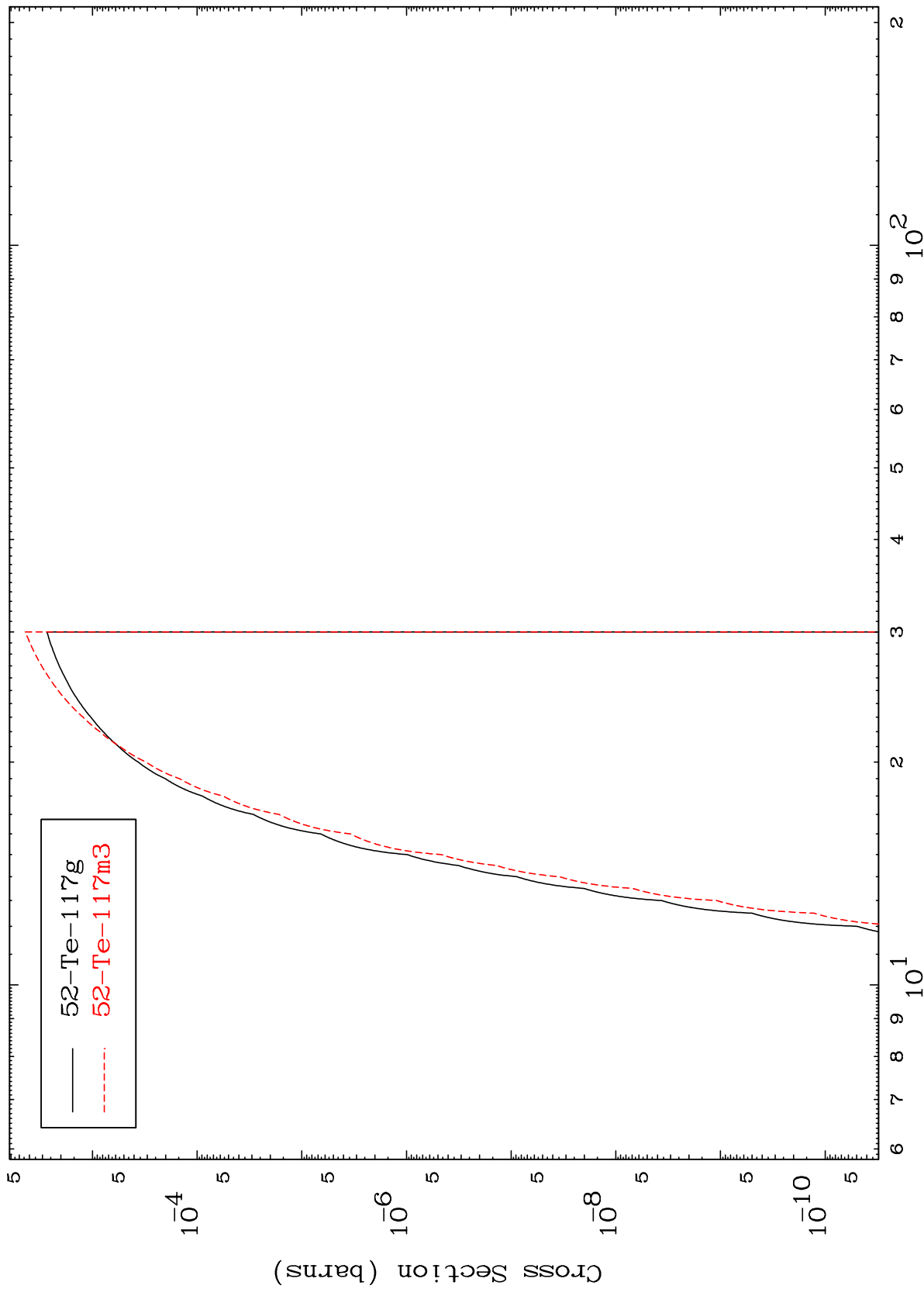
54-Xe-119

MAT 5410

(n,p) d

54-Xe-119

Radionuclide Production Cross Section



147

Incident Energy (MeV)

54-Xe-119