

Program EVALPLOT
(Version 2015-2)

by

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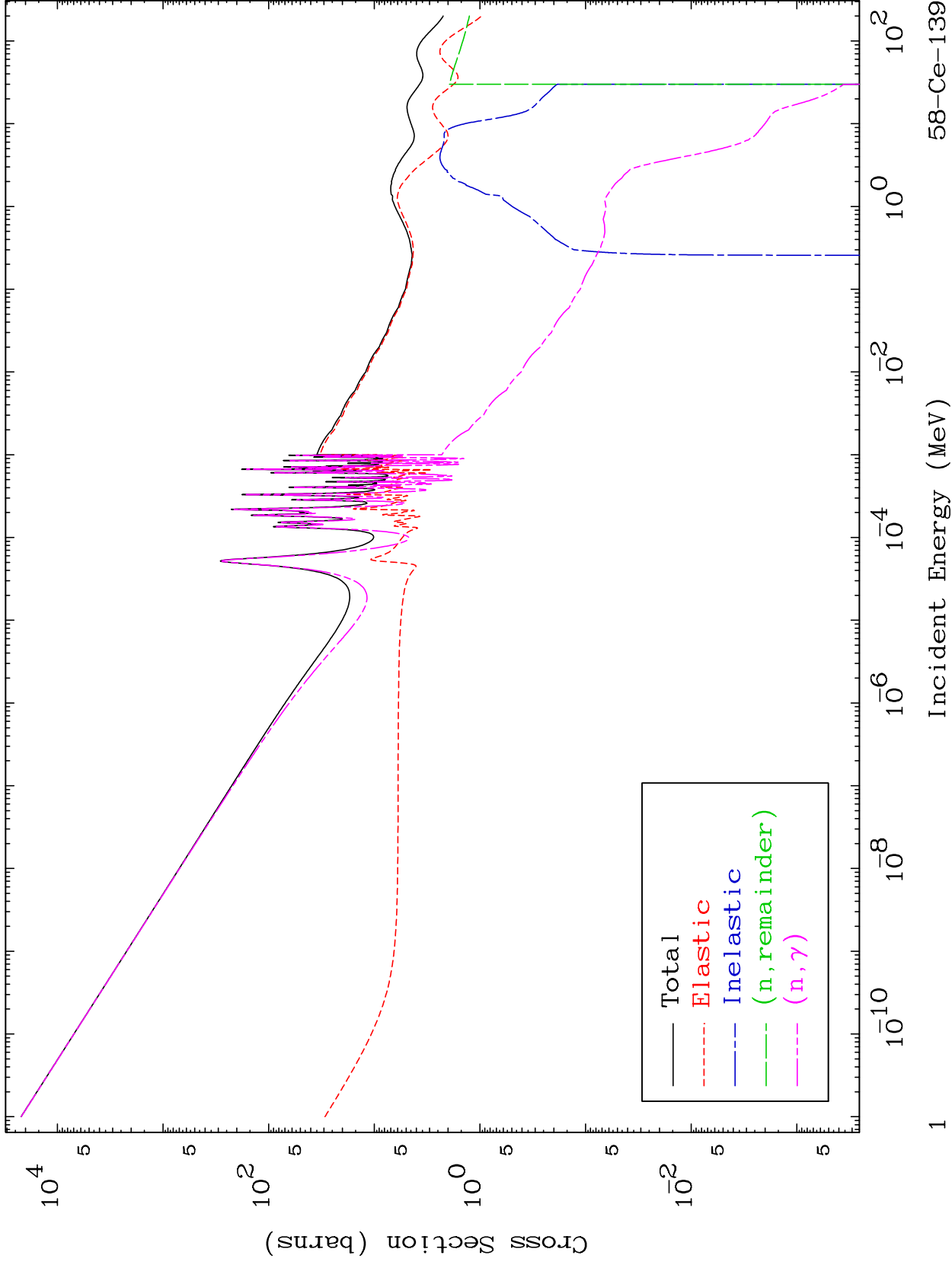
E.Mail:redcullen1@comcast.net
Web:home.comcast.net/~redcullen1

Press Mouse Button to Start

MAT 5834

Major
293 Kelvin Cross Sections

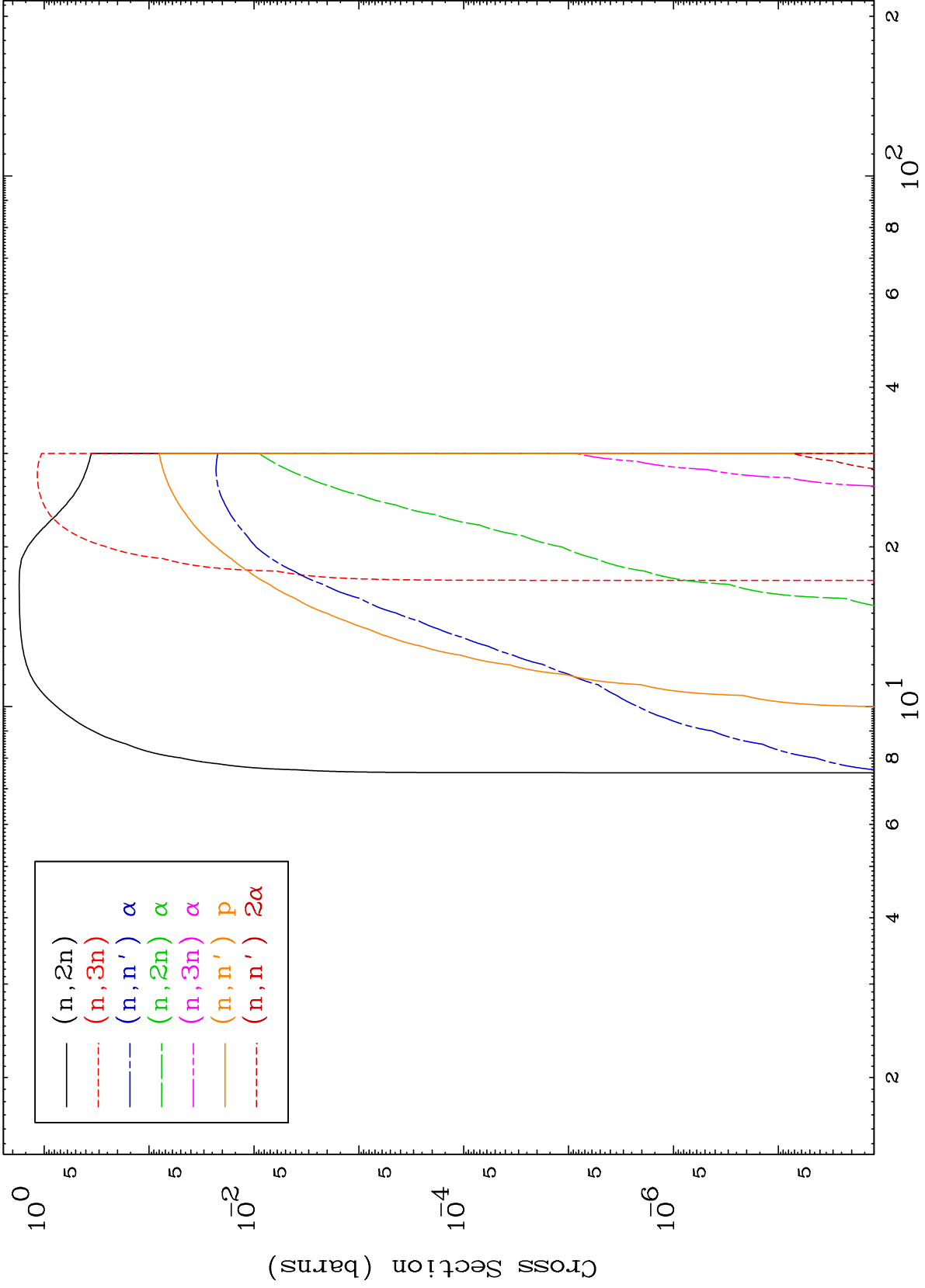
58-Ce-139

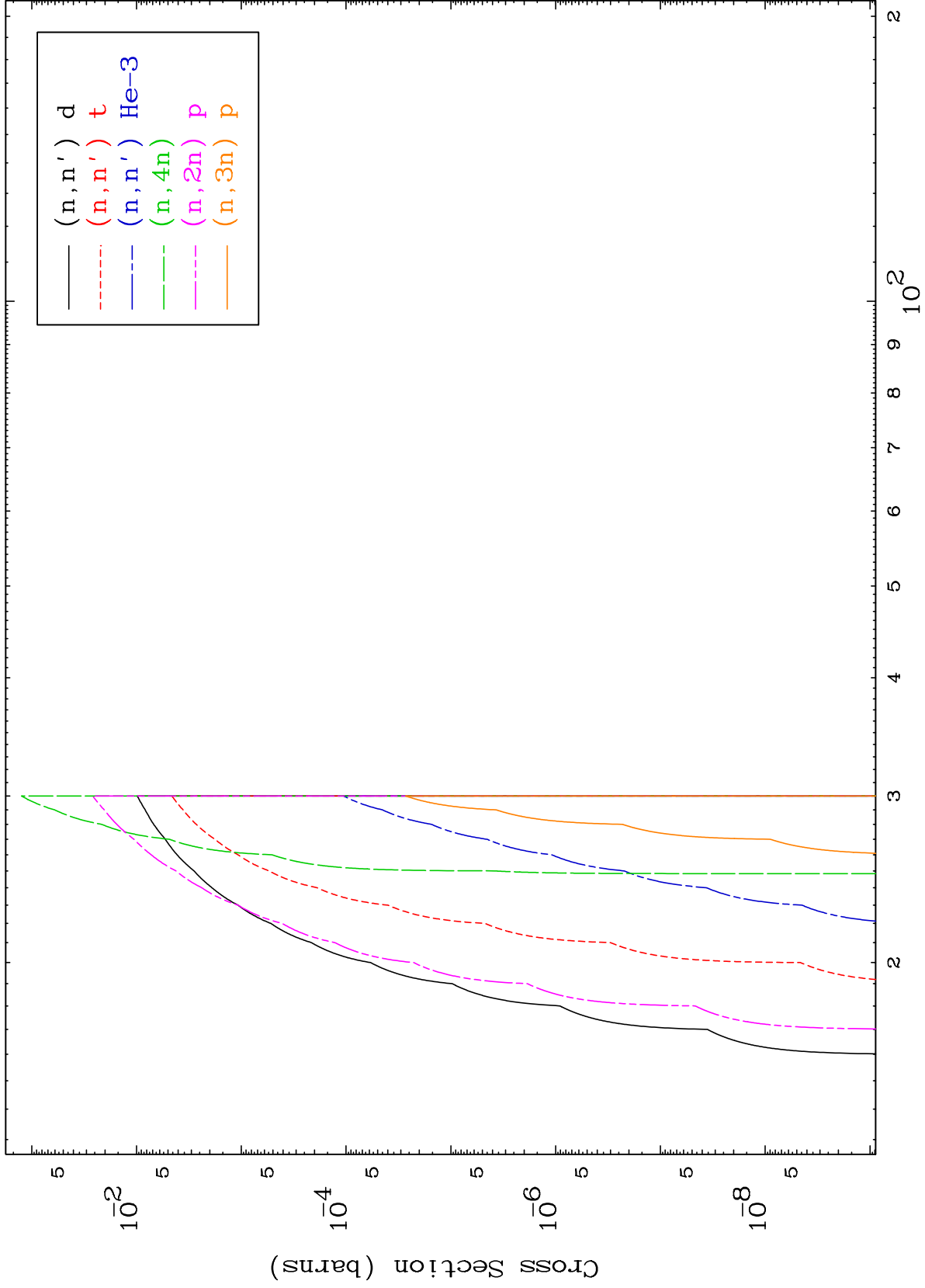


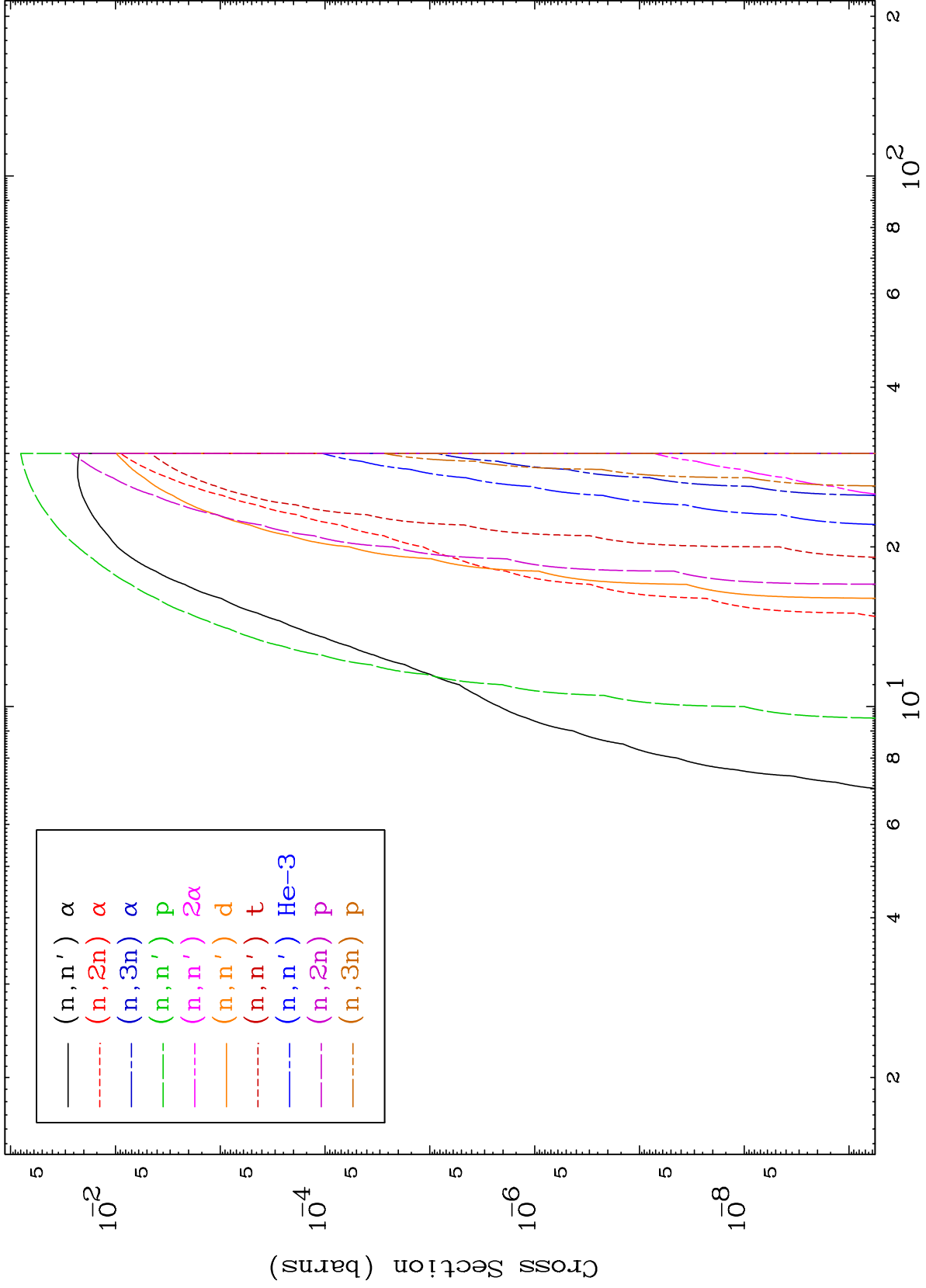
MAT 5834

Neutron Production
293 Kelvin Cross Sections

58-Ce-139



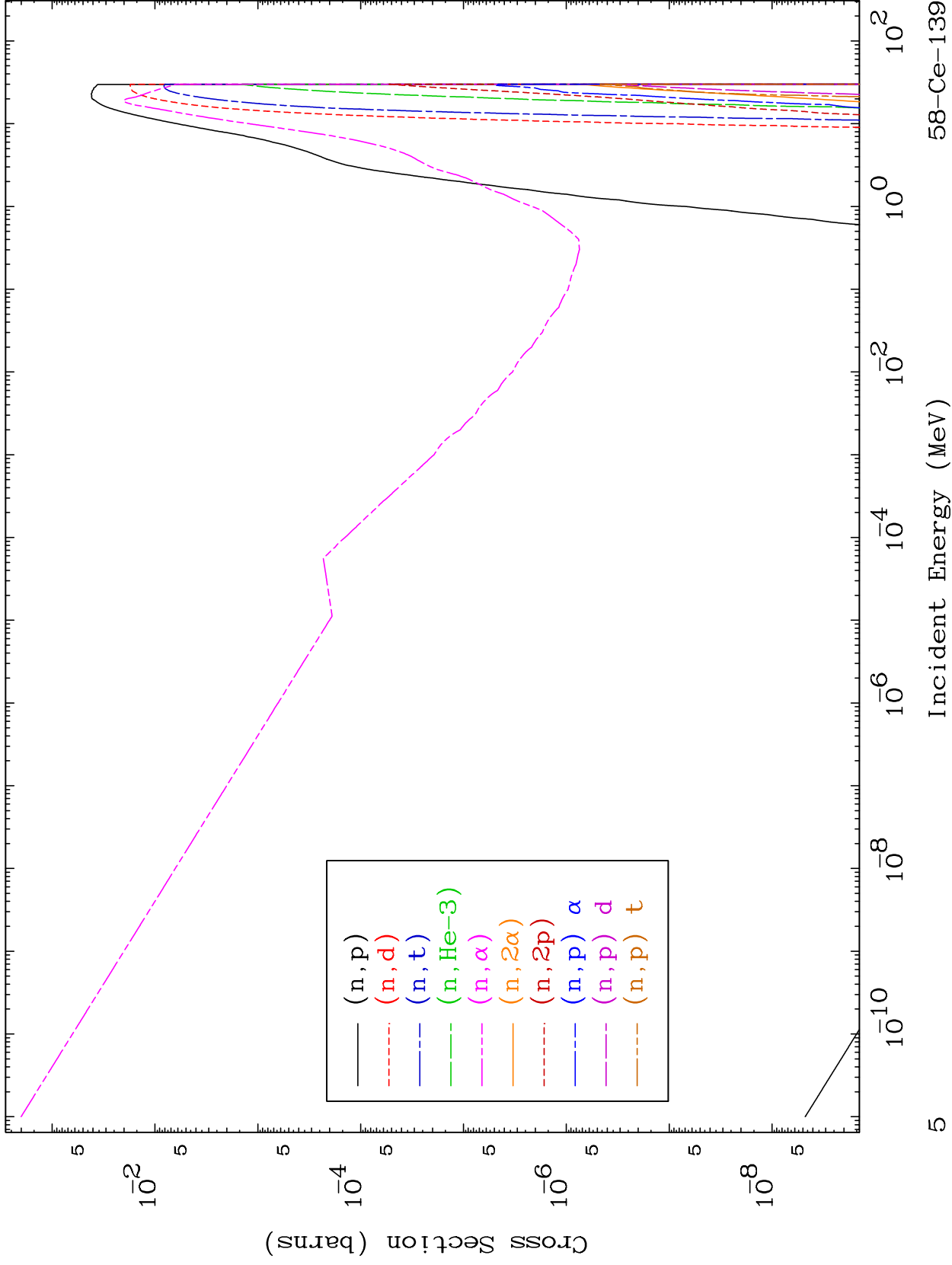




MAT 5834

Charged Particle
293 Kelvin Cross Sections

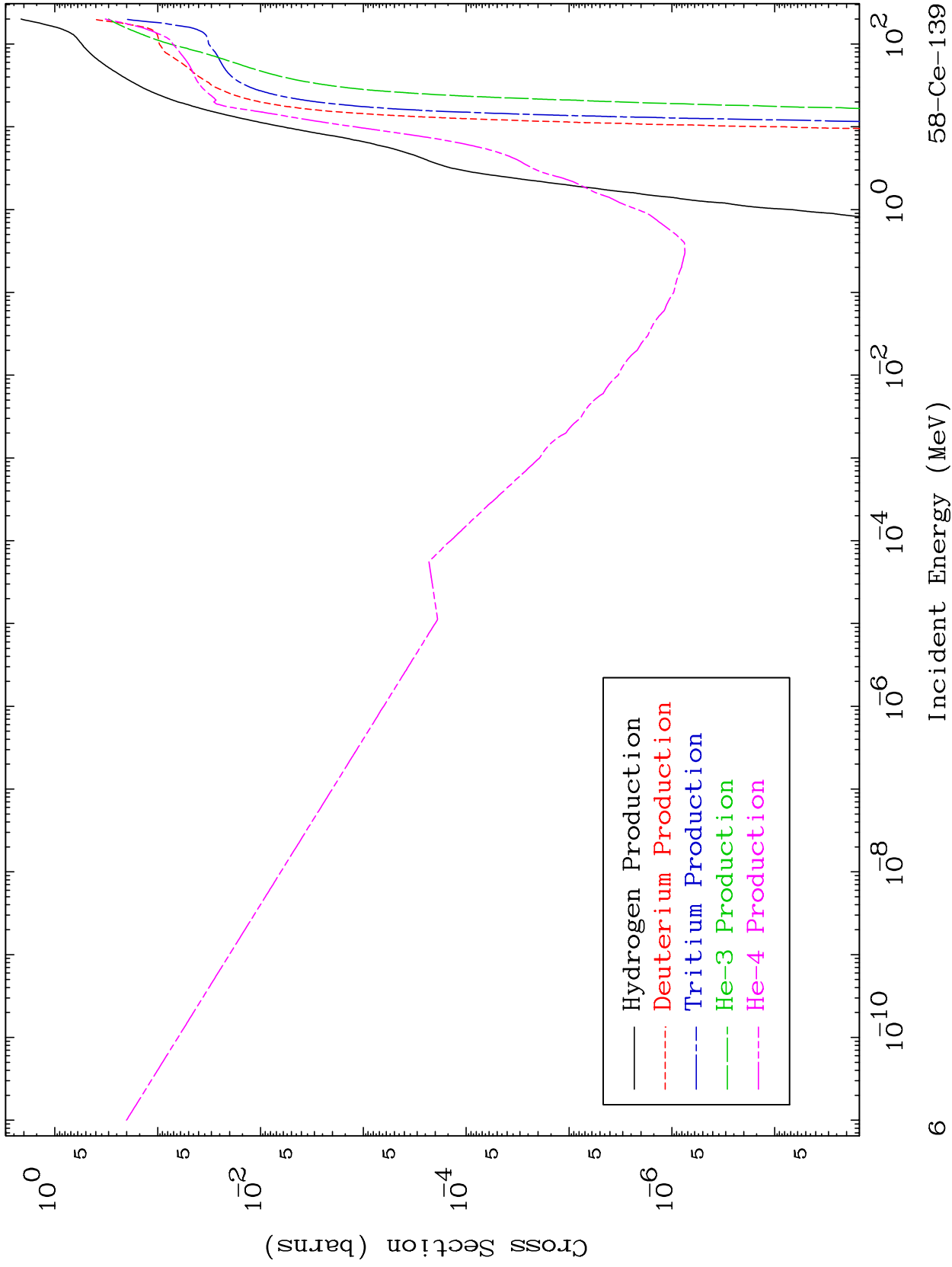
58-Ce-139



MAT 5834

Particle Production
293 Kelvin Cross Sections

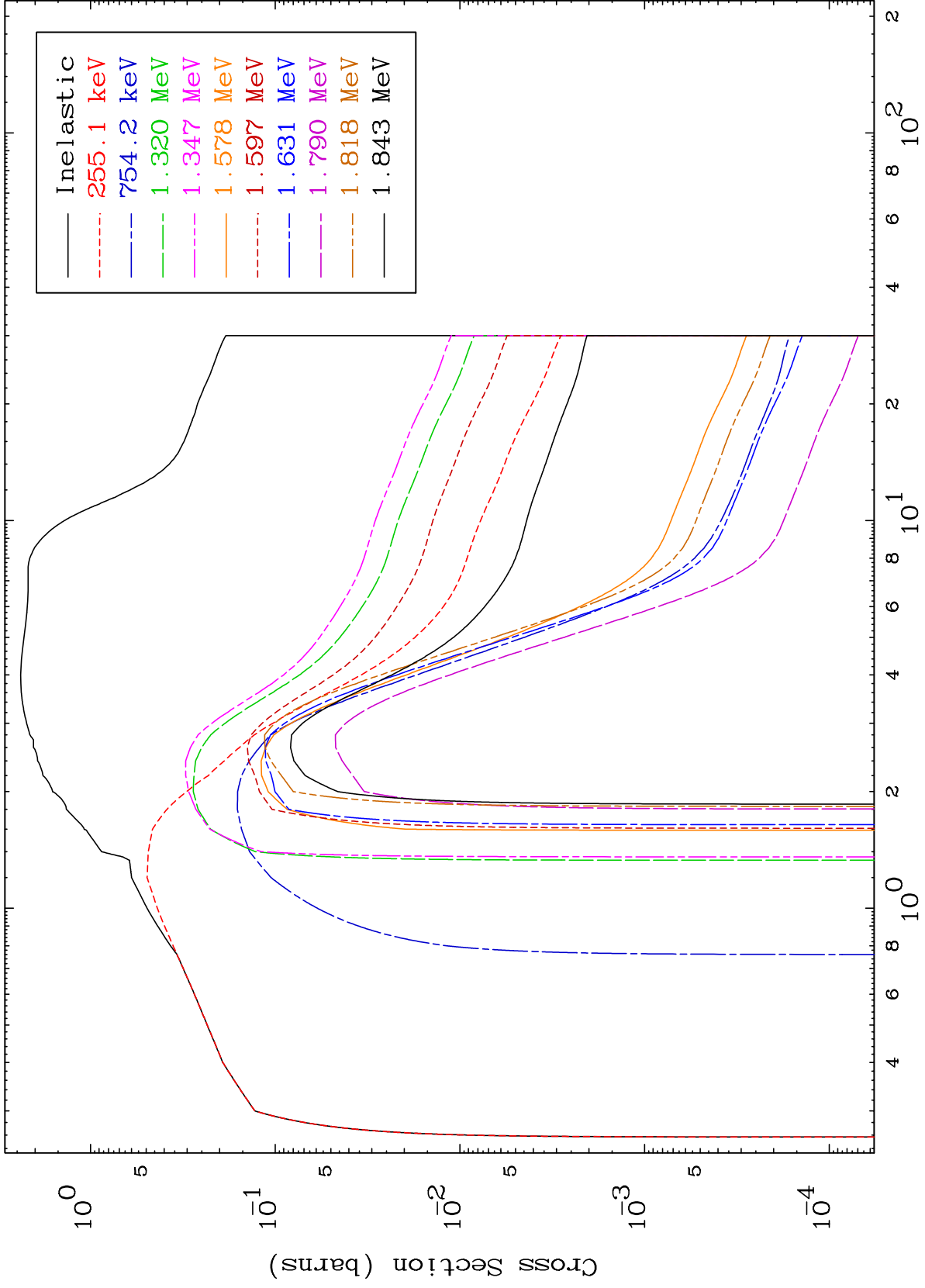
58-Ce-139

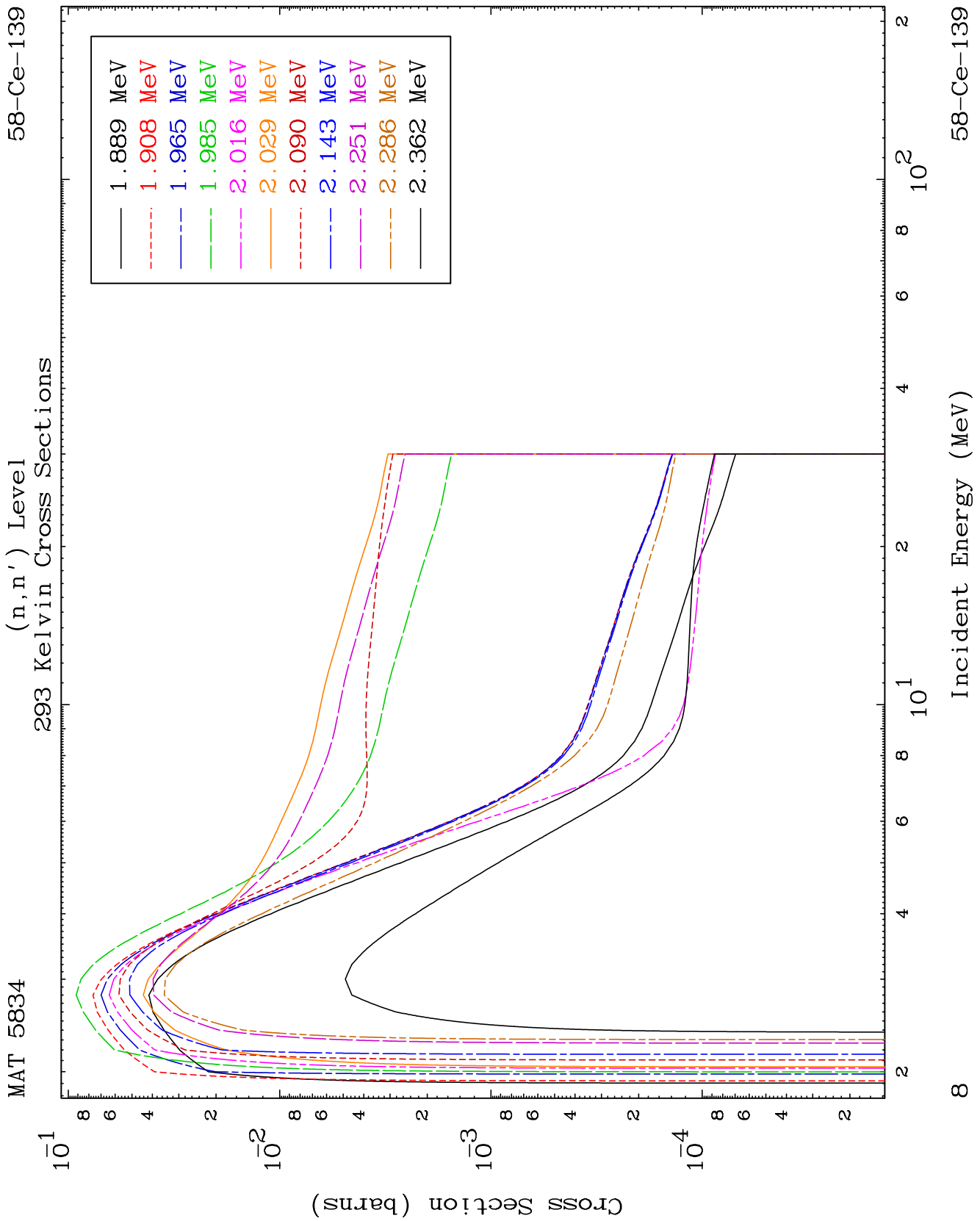


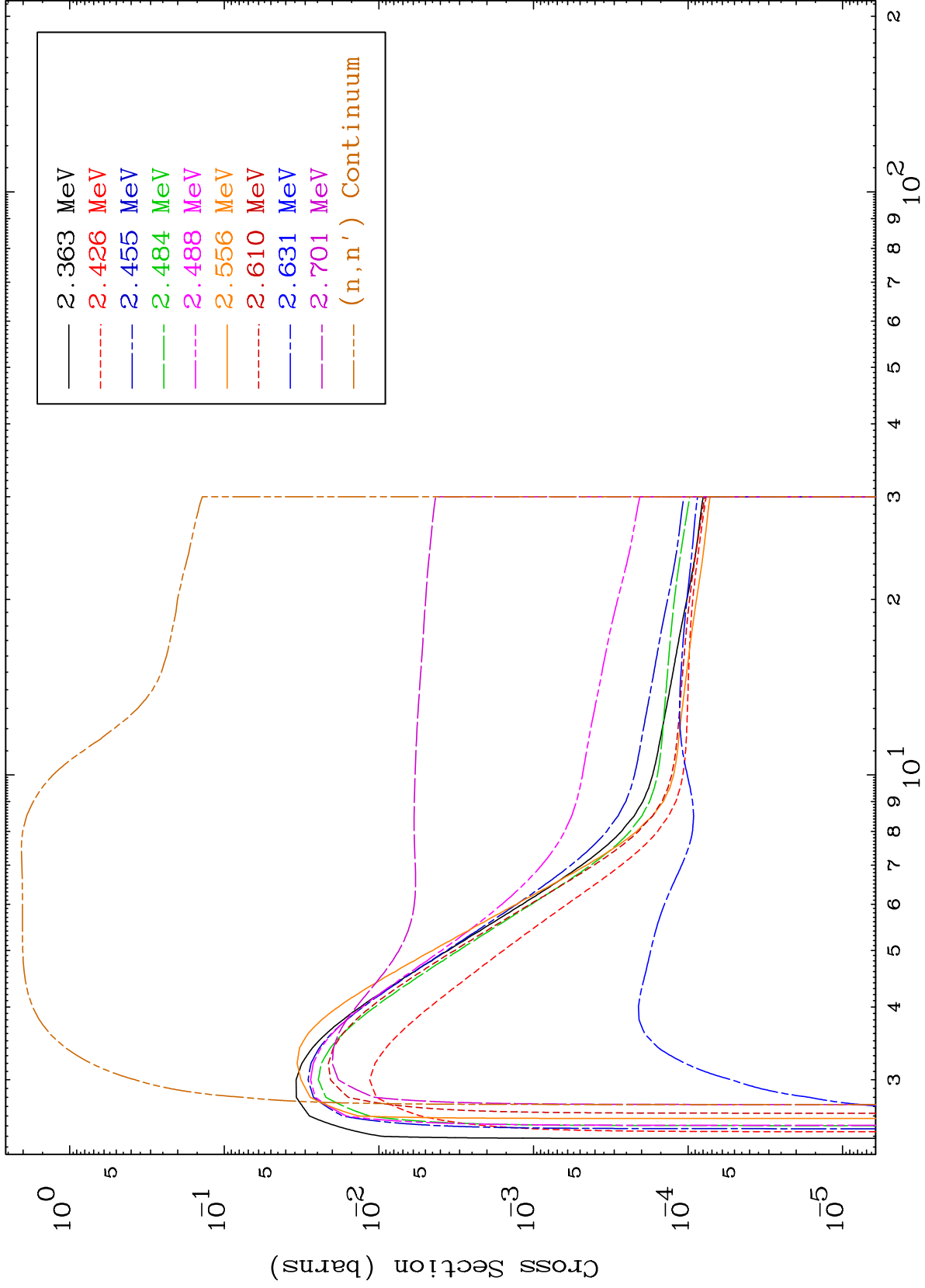
MAT 5834

(n,n') Level
293 Kelvin Cross Sections

58-Ce-139



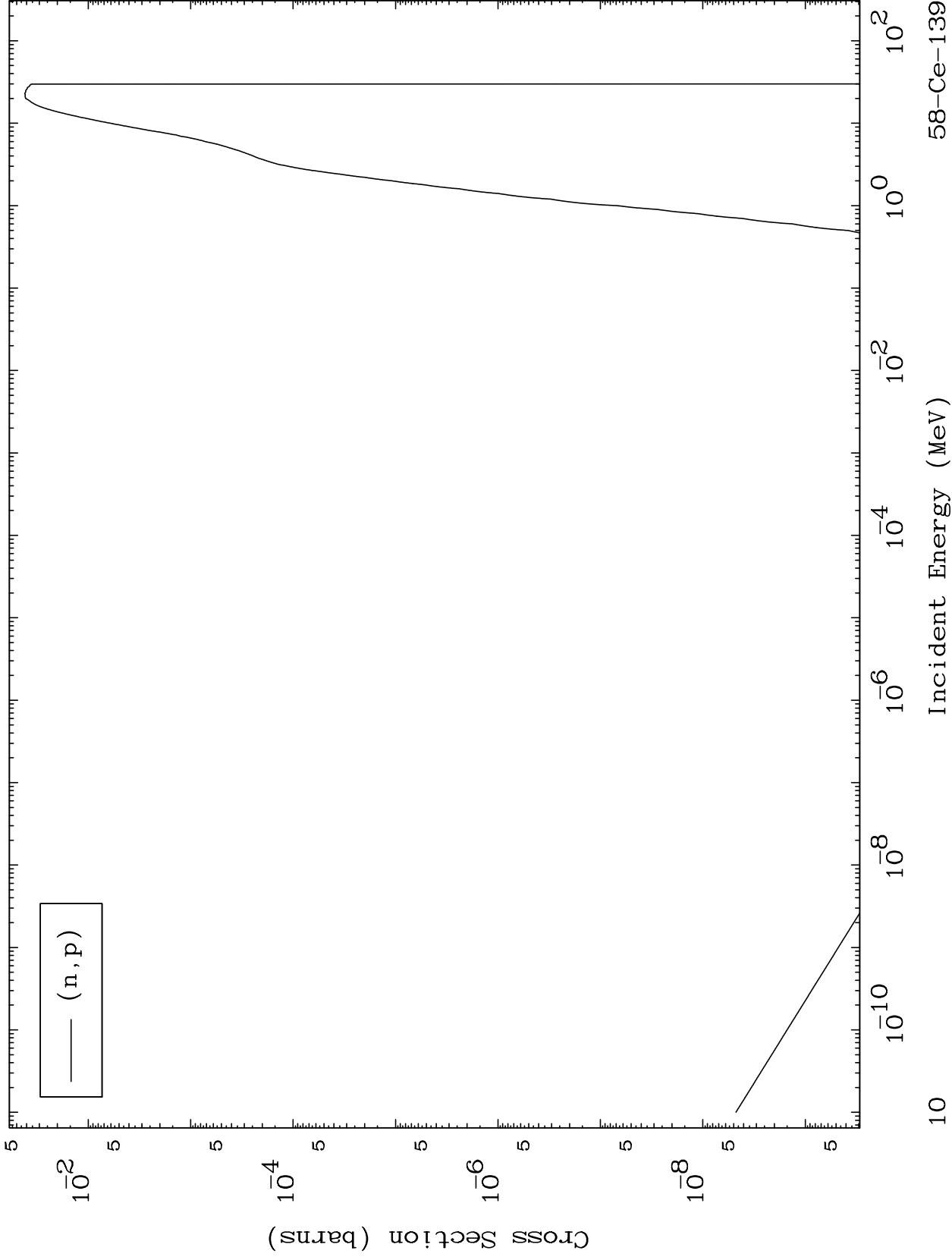




MAT 5834

(n,p) Levels
293 Kelvin Cross Sections

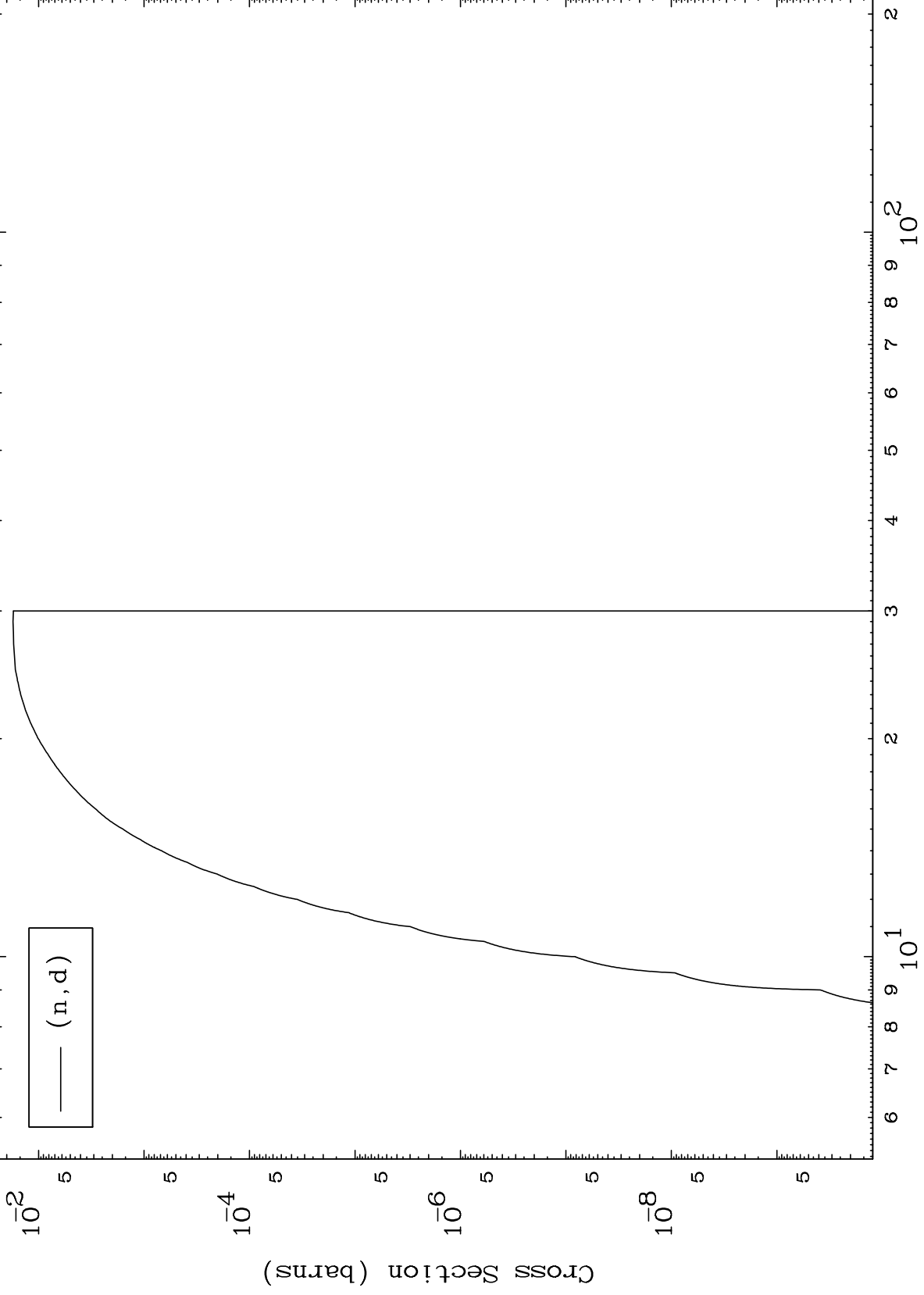
58-Ce-139



MAT 5834

(n,d) Levels
293 Kelvin Cross Sections

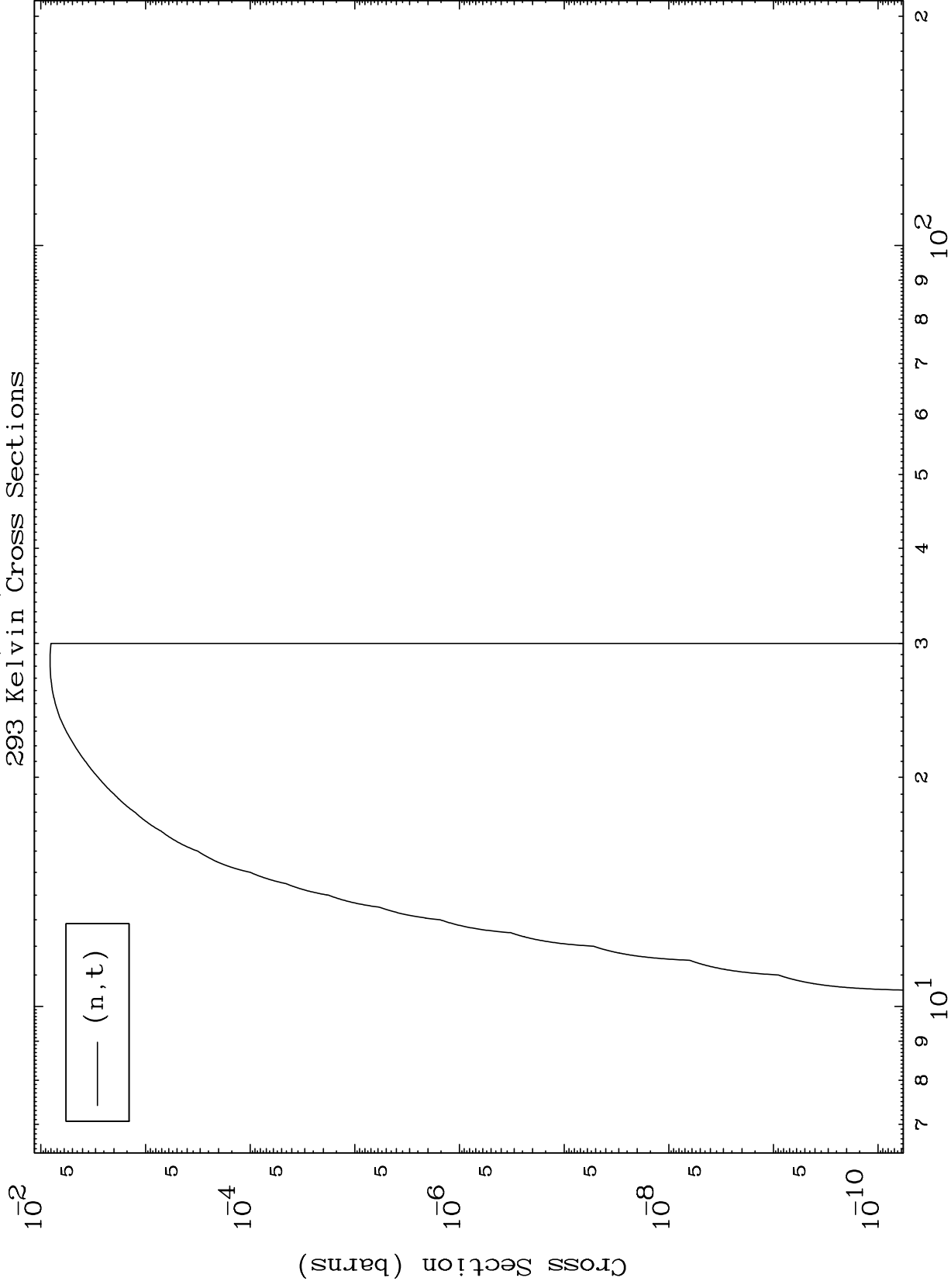
58-Ce-139



MAT 5834

(n,t) Levels
293 Kelvin Cross Sections

58-Ce-139



12

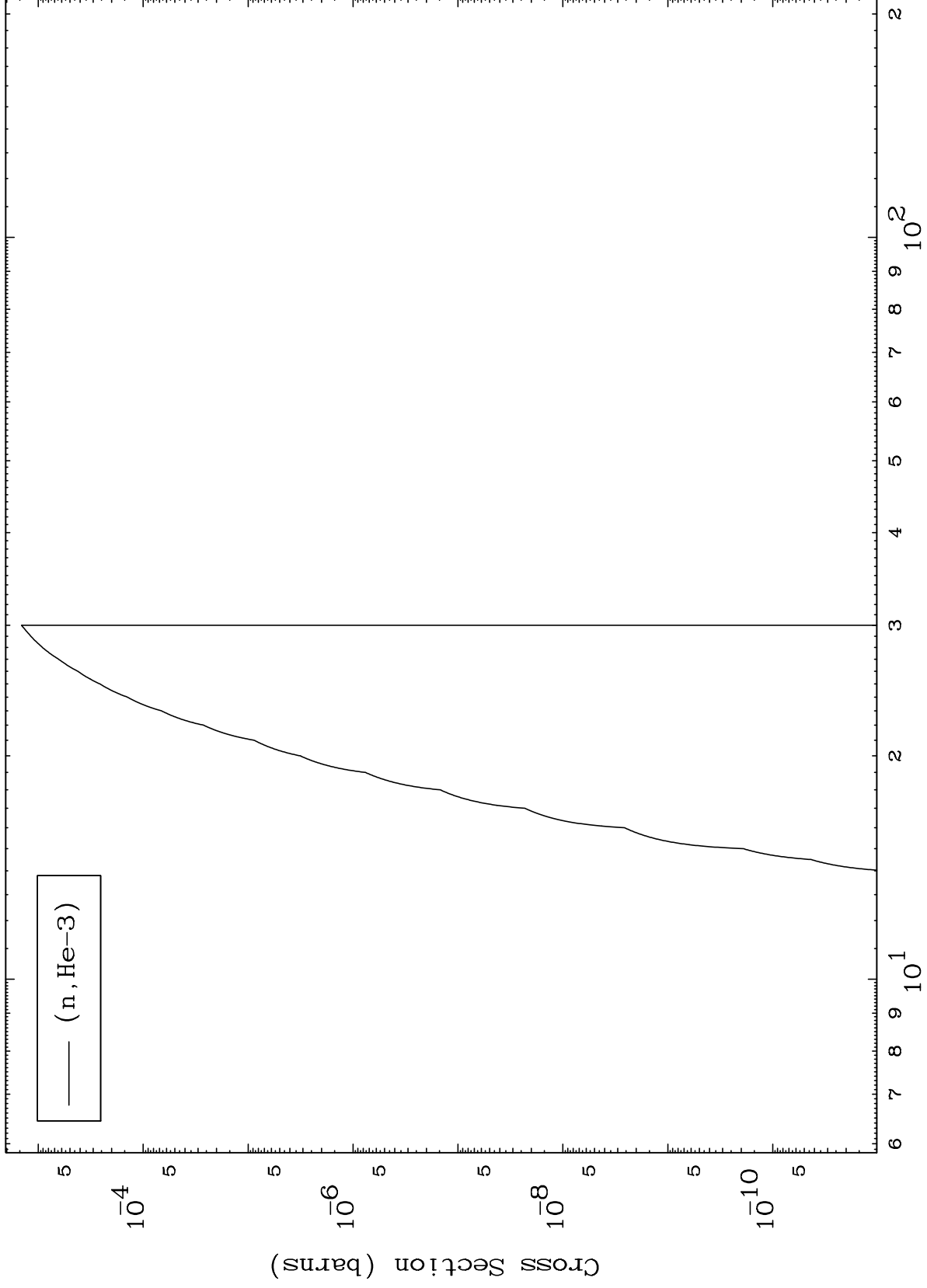
Incident Energy (MeV)

58-Ce-139

MAT 5834

(n,He3) Levels
293 Kelvin Cross Sections

58-Ce-139



13

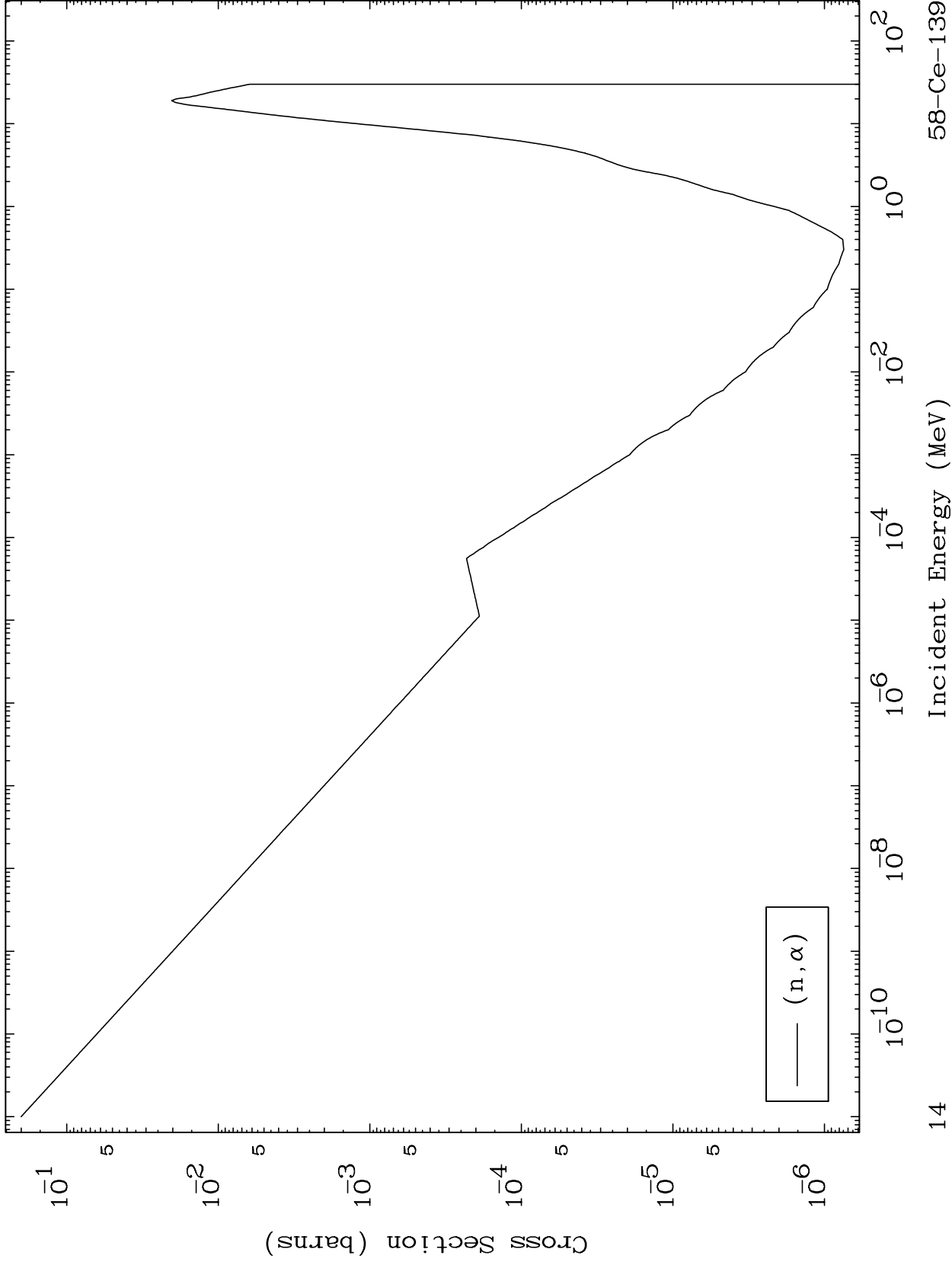
Incident Energy (MeV)

58-Ce-139

MAT 5834

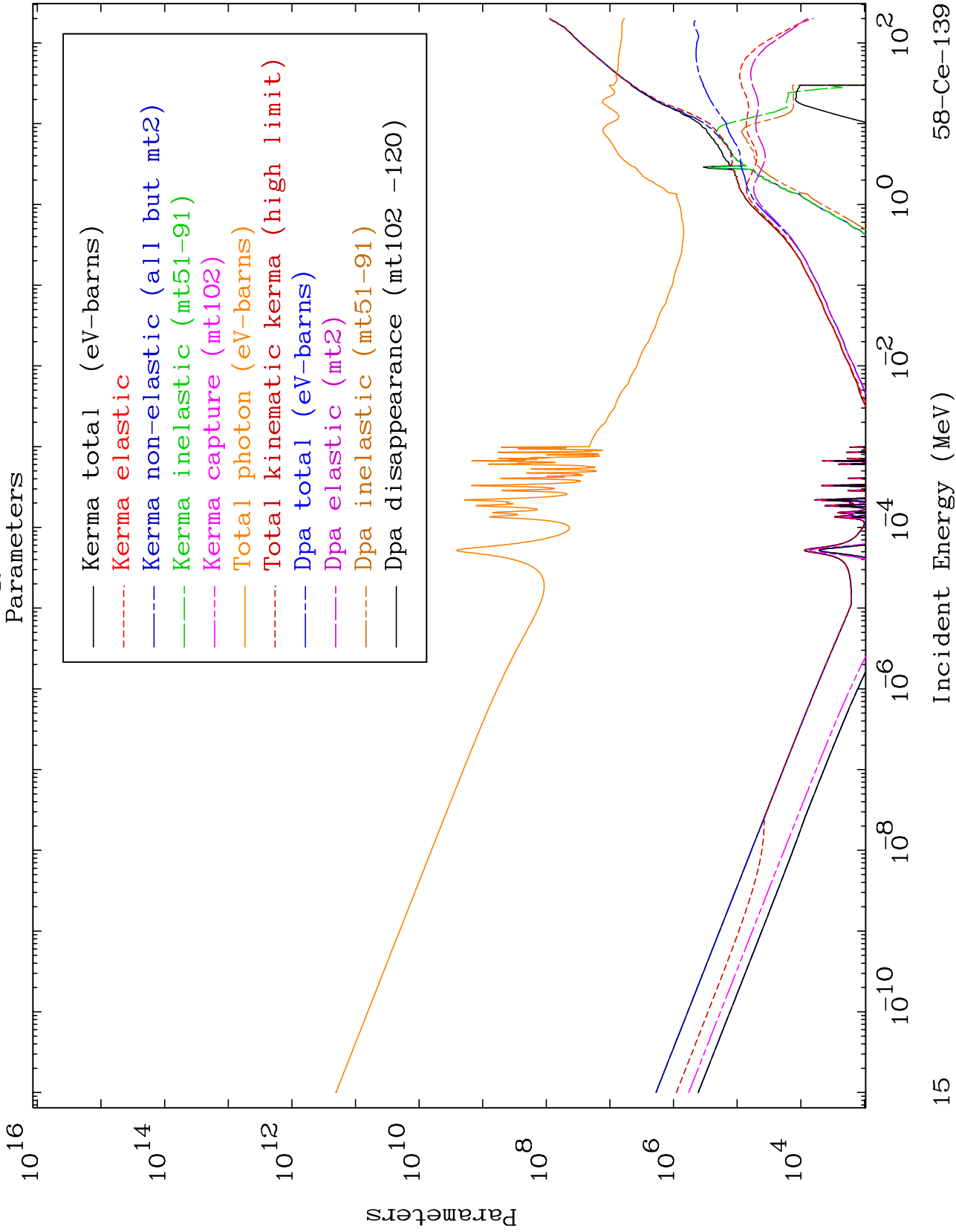
(n, α) Levels
293 Kelvin Cross Sections

58-Ce-139



14

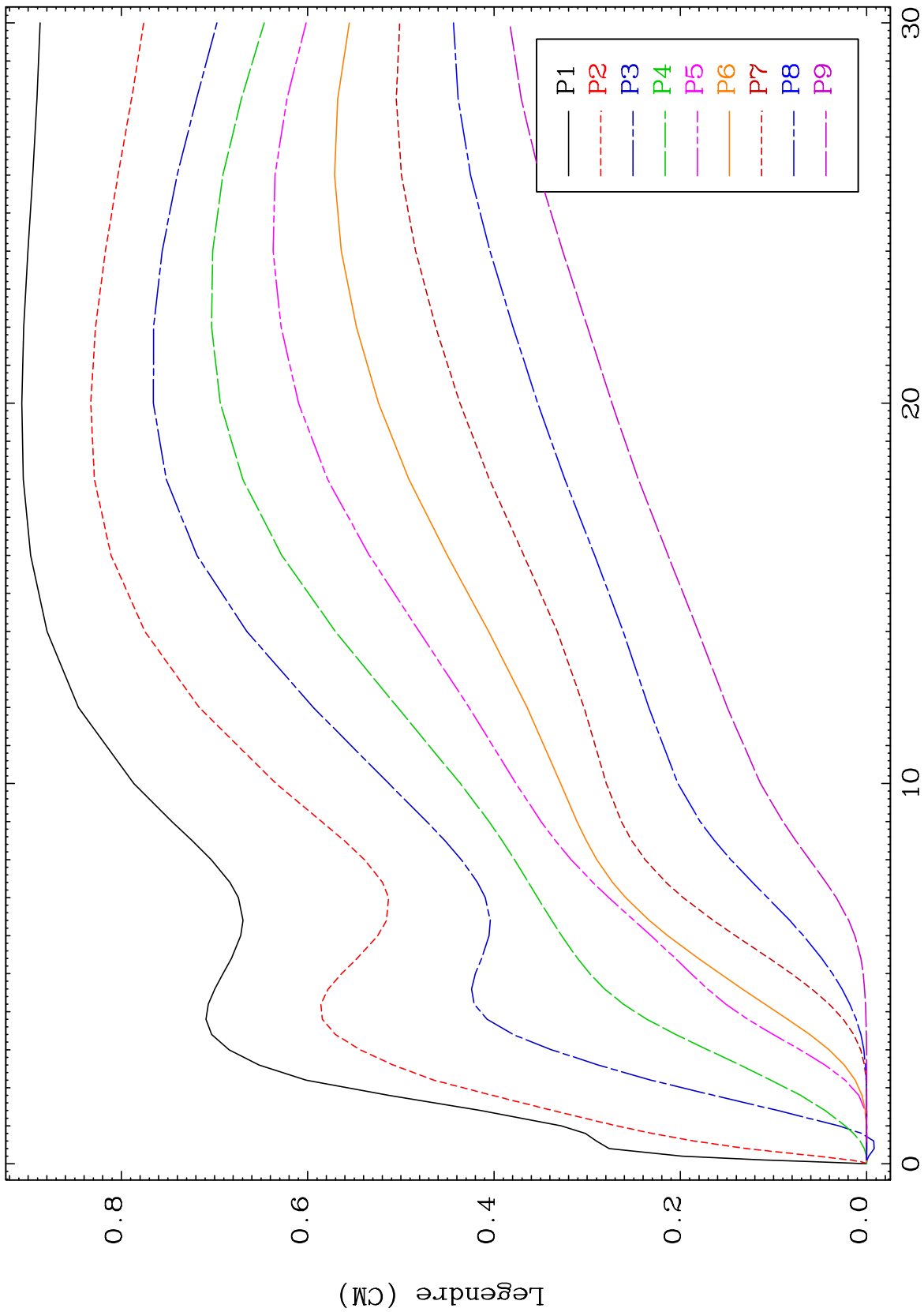
58-Ce-139



MAT 5834

Elastic Legendre Coefficients

58-Ce-139



16

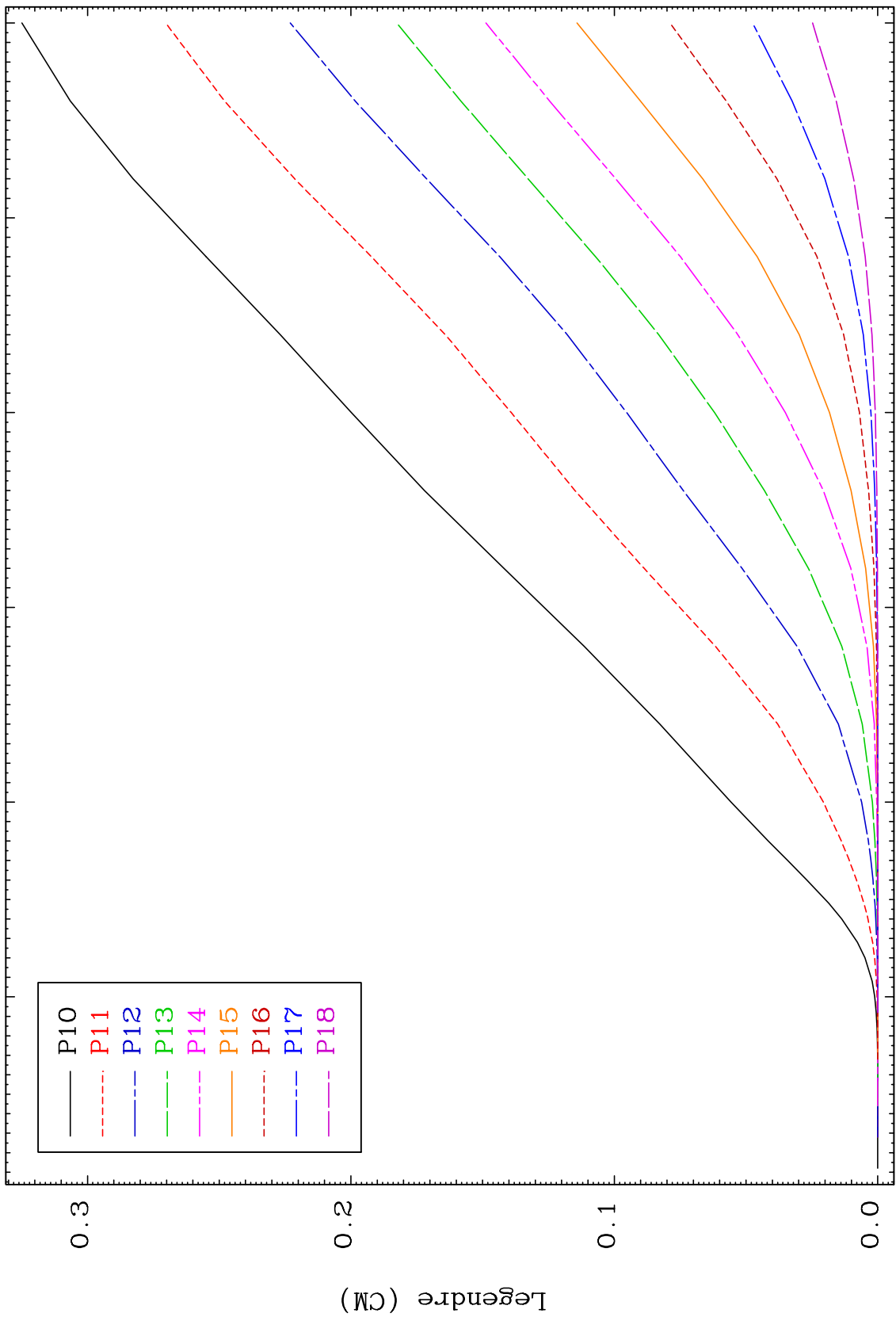
Incident Energy (MeV)

58-Ce-139

MAT 5834

Elastic Legendre Coefficients

58-Ce-139



17

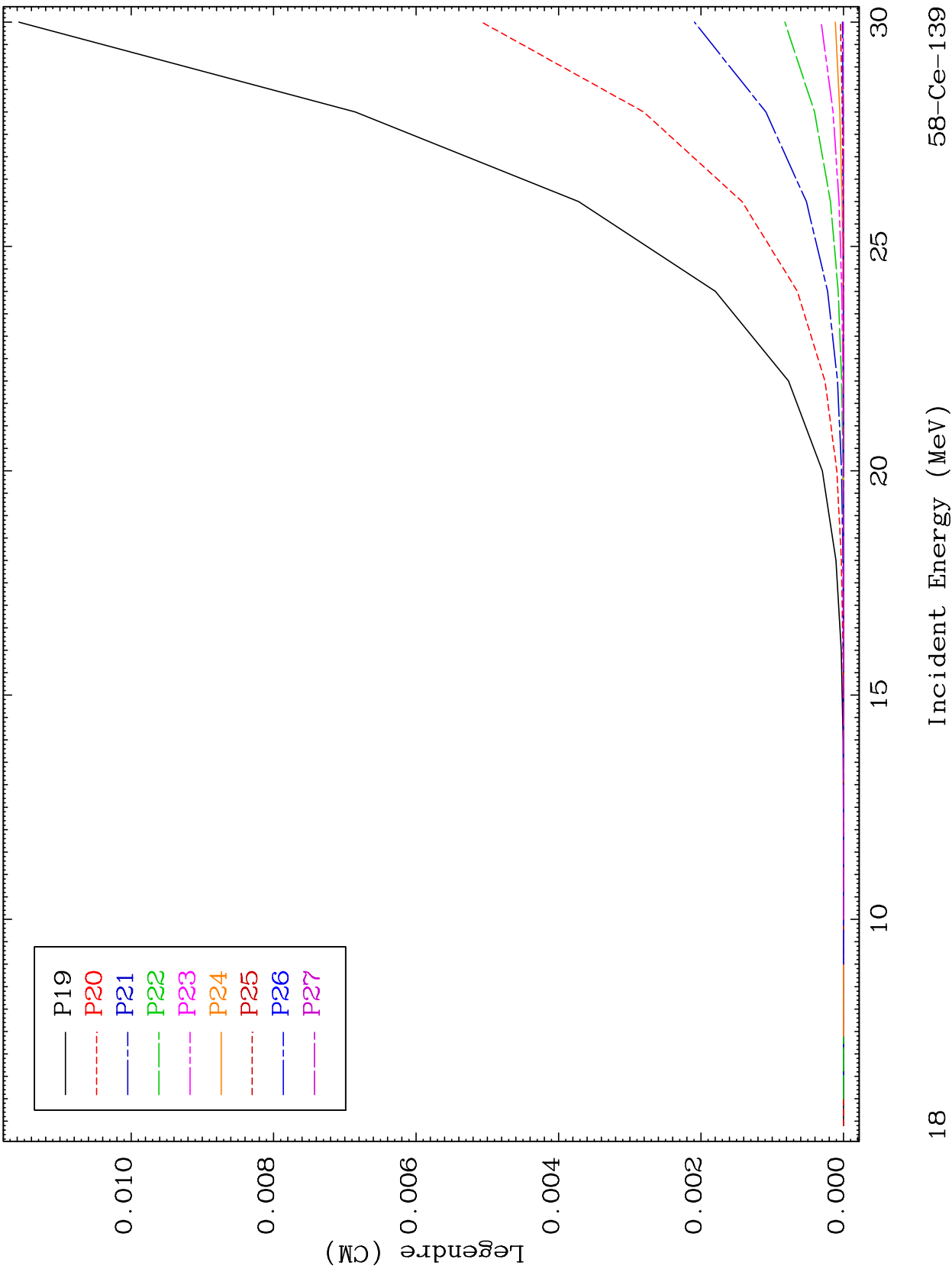
Incident Energy (MeV)

58-Ce-139

MAT 5834

Elastic Legendre Coefficients

58-Ce-139



18

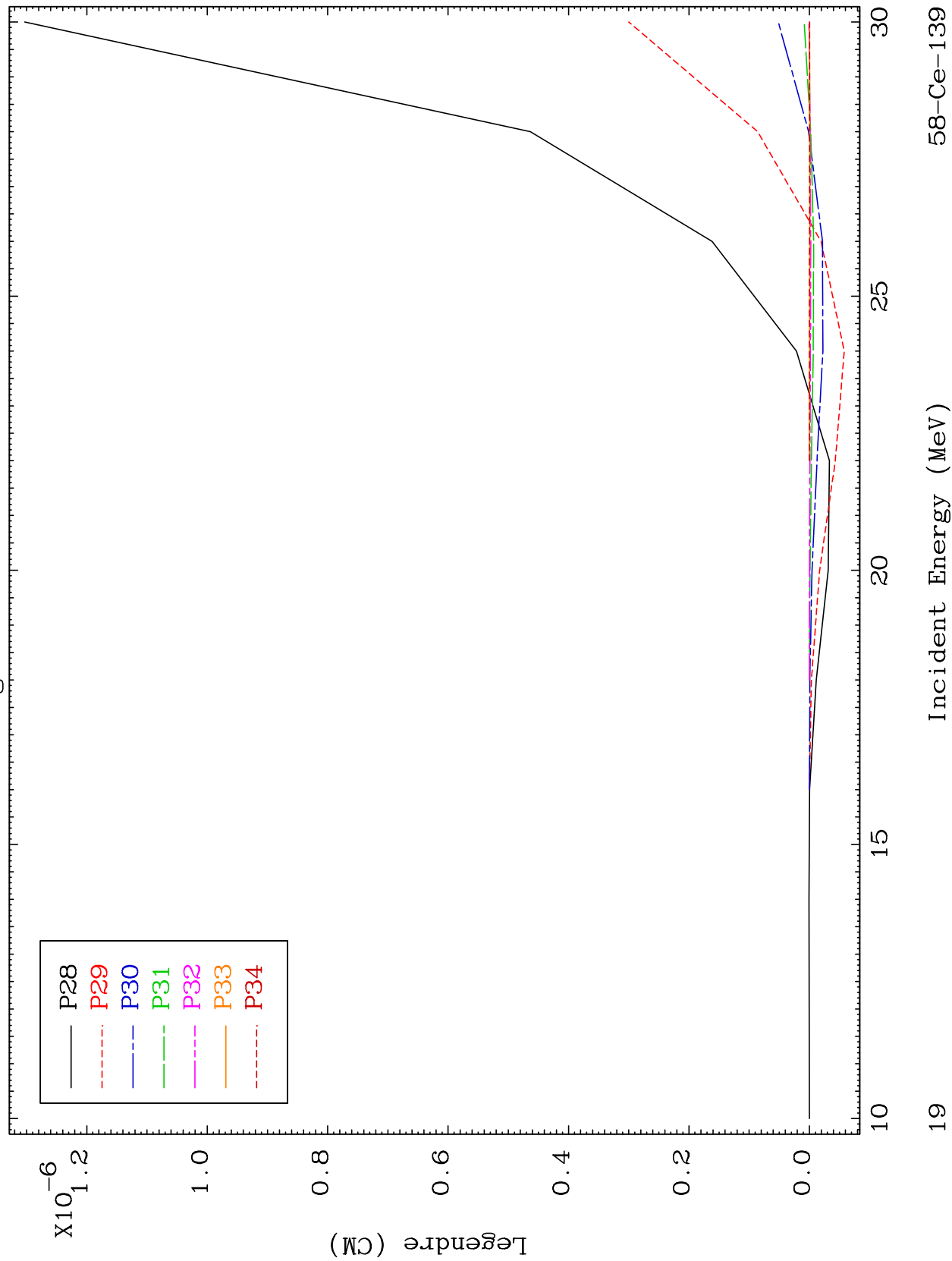
Incident Energy (MeV)

58-Ce-139

MAT 5834

Elastic Legendre Coefficients

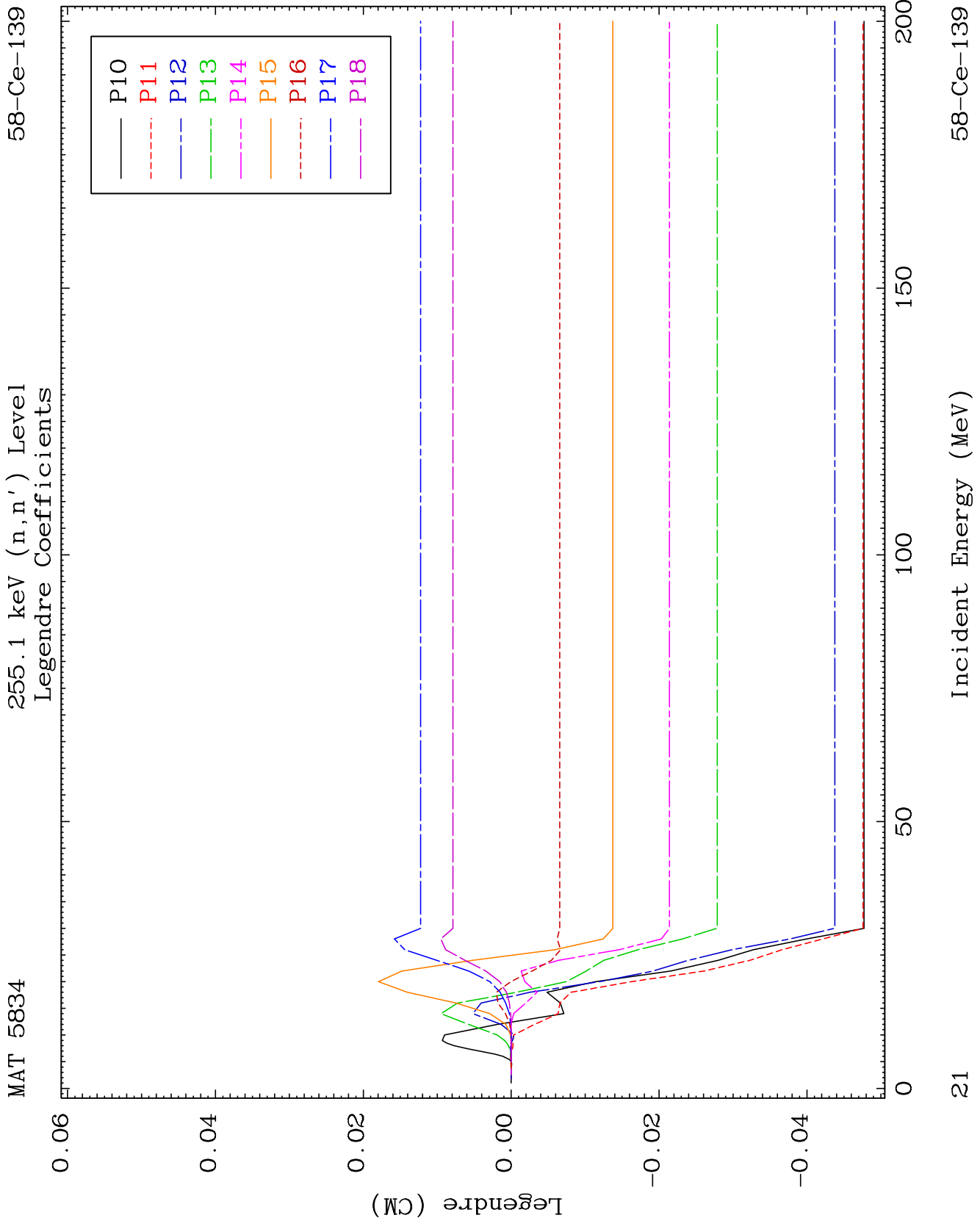
58-Ce-139



58-Ce-139

Incident Energy (MeV)

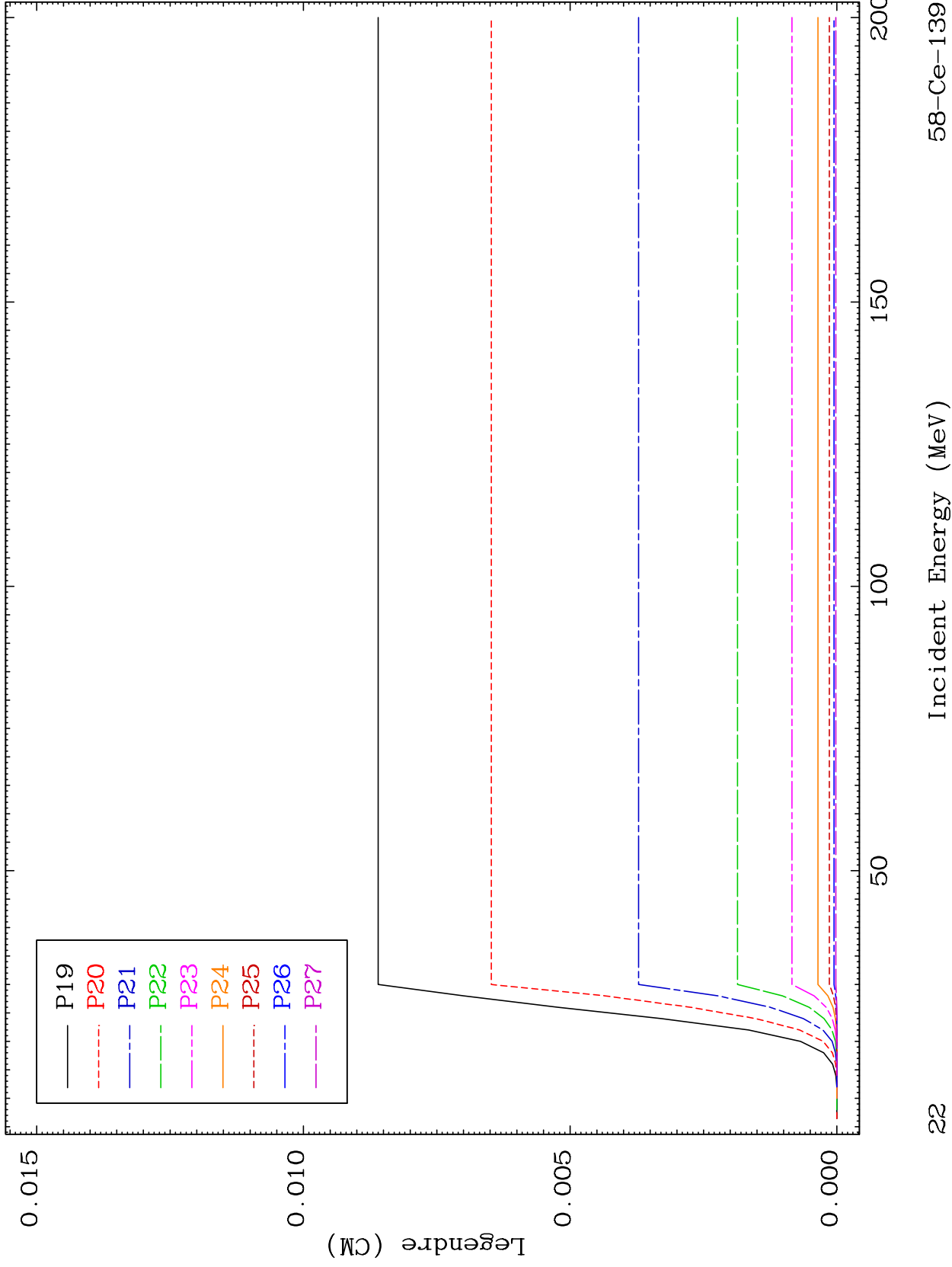
19



MAT 5834

255.1 keV (n,n') Level
Legendre Coefficients

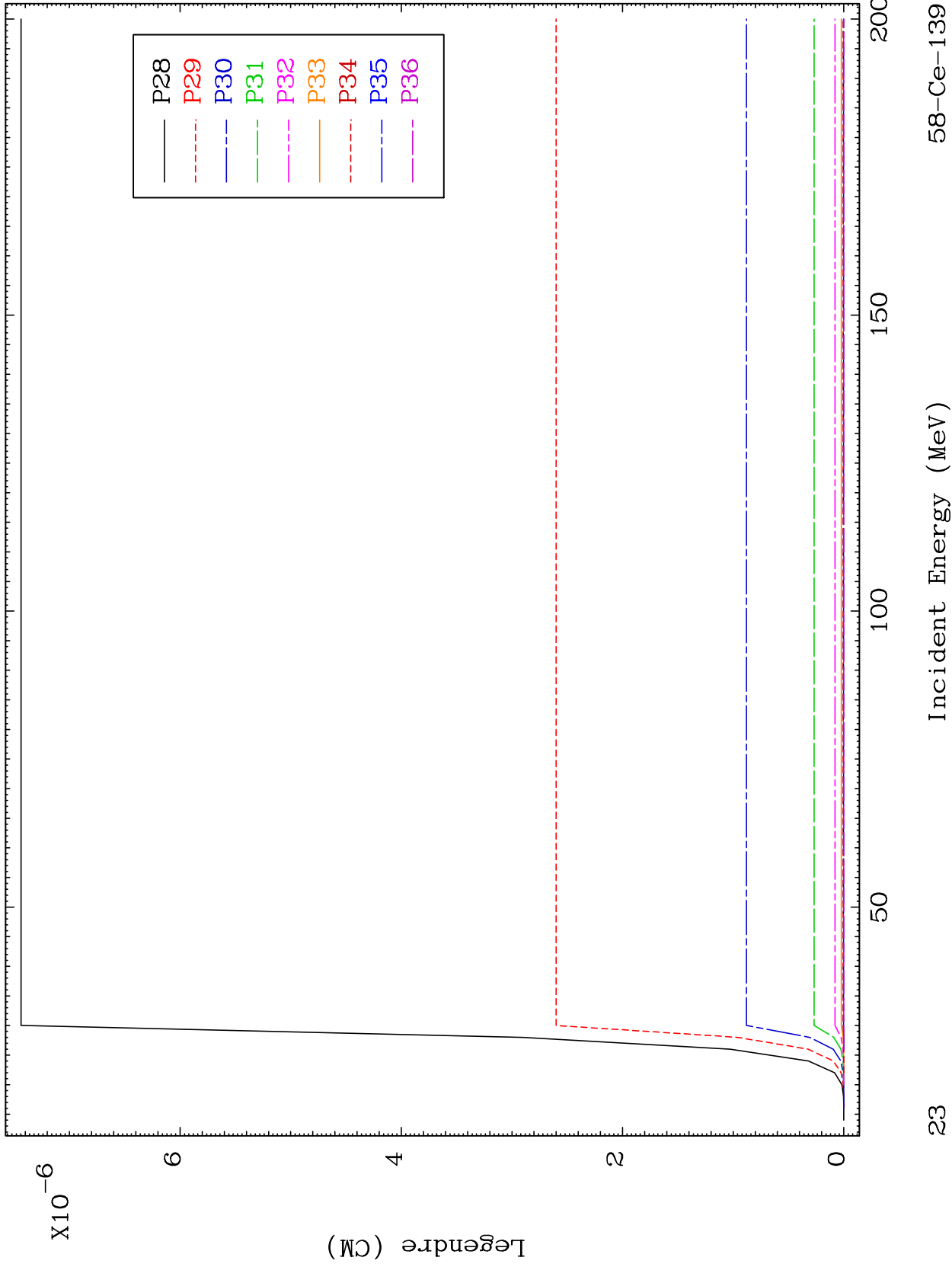
58-Ce-139



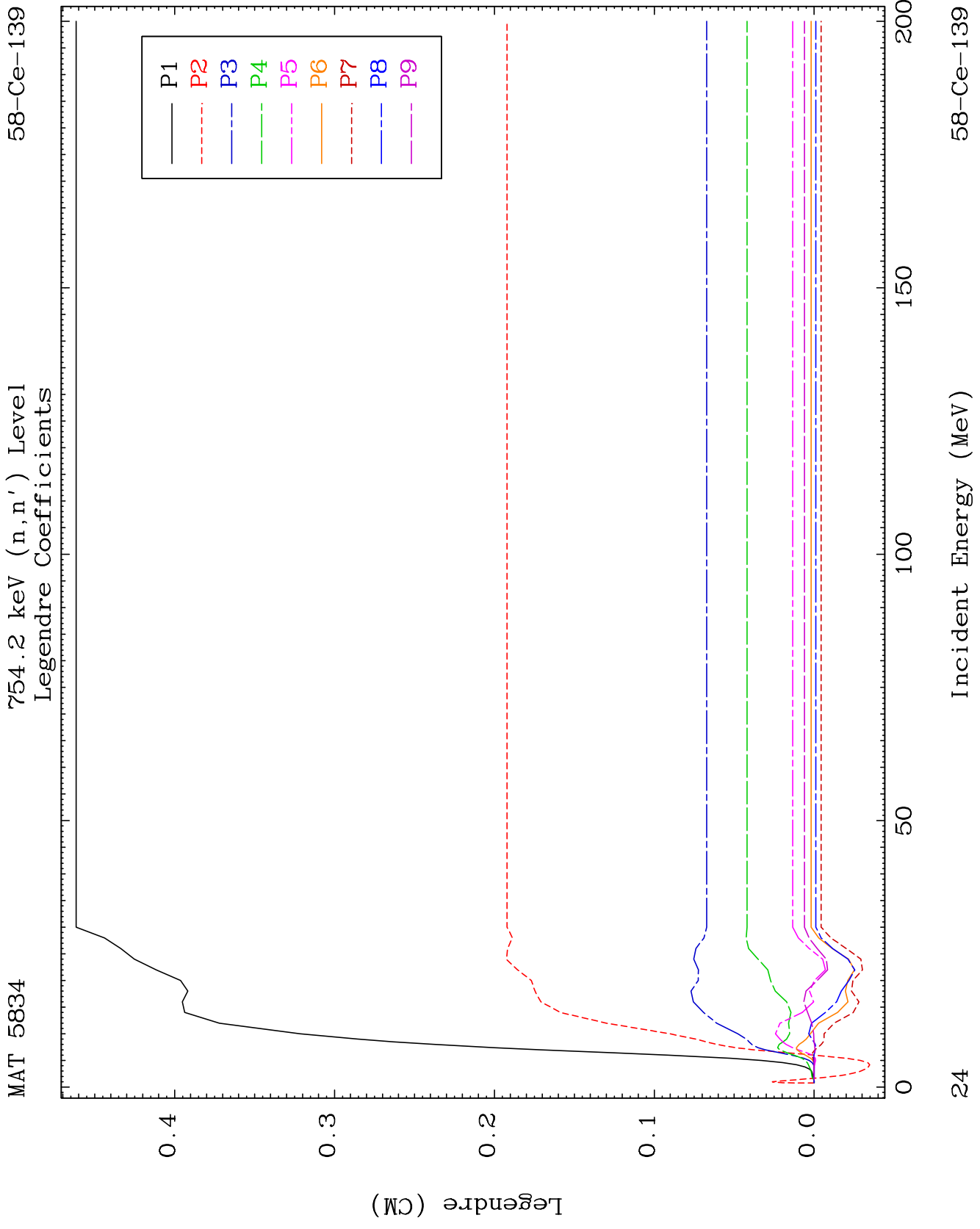
MAT 5834

255.1 keV (n,n') Level
Legendre Coefficients

58-Ce-139



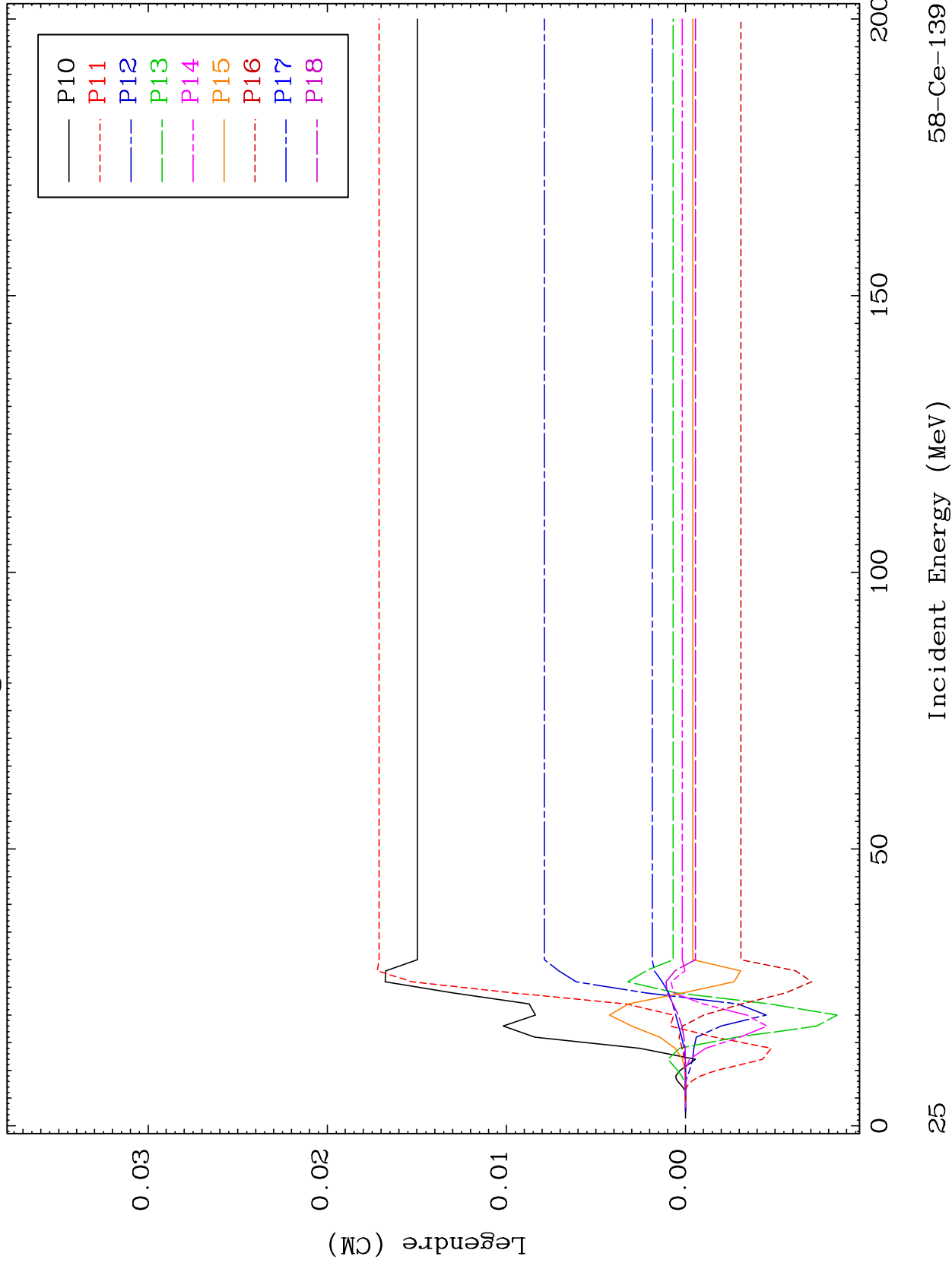
23



MAT 5834

754.2 keV (n,n') Level
Legendre Coefficients

58-Ce-139



58-Ce-139

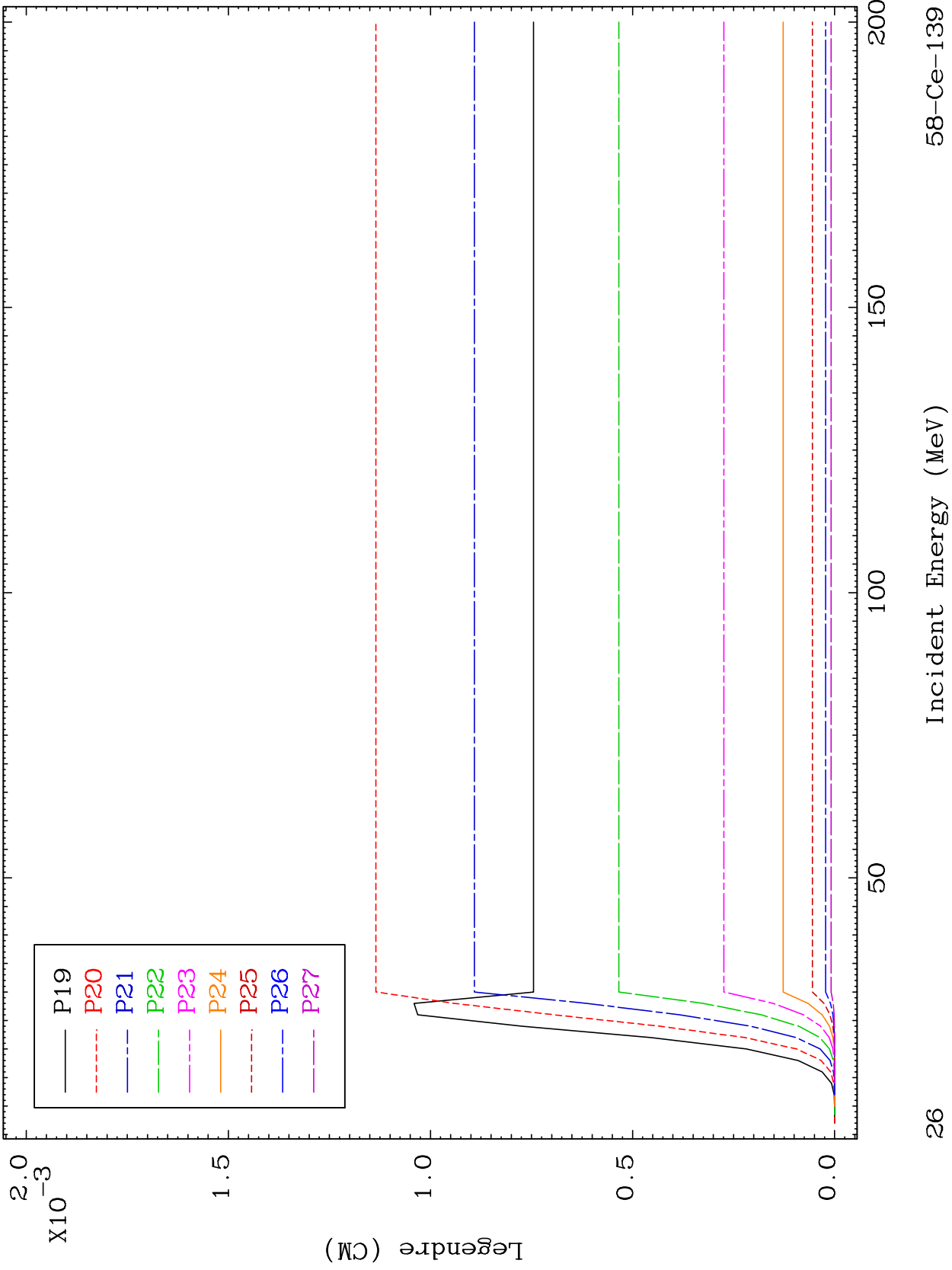
Incident Energy (MeV)

25

MAT 5834

754.2 keV (n,n') Level
Legendre Coefficients

58-Ce-139

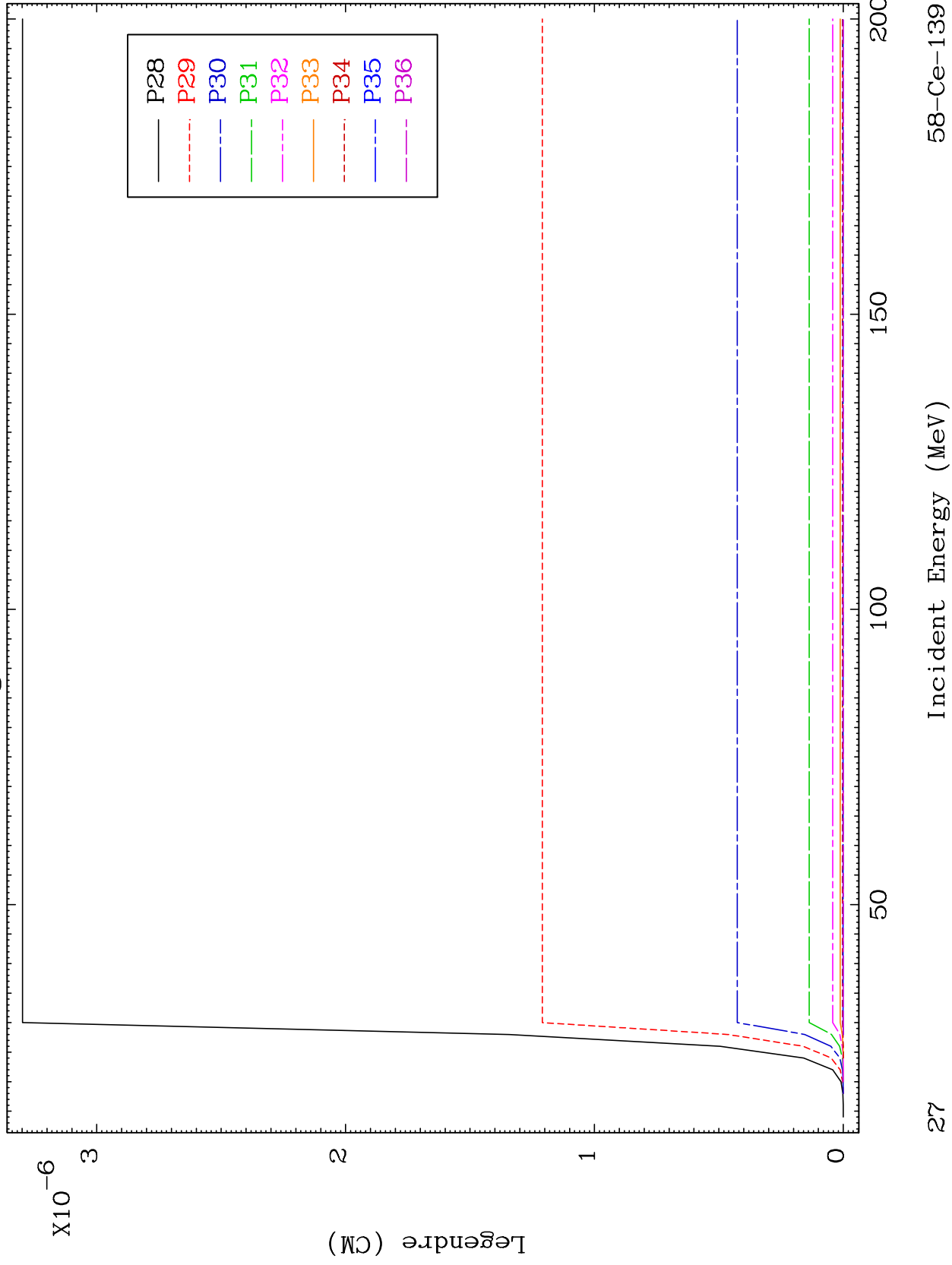


26

MAT 5834

754.2 keV (n,n') Level
Legendre Coefficients

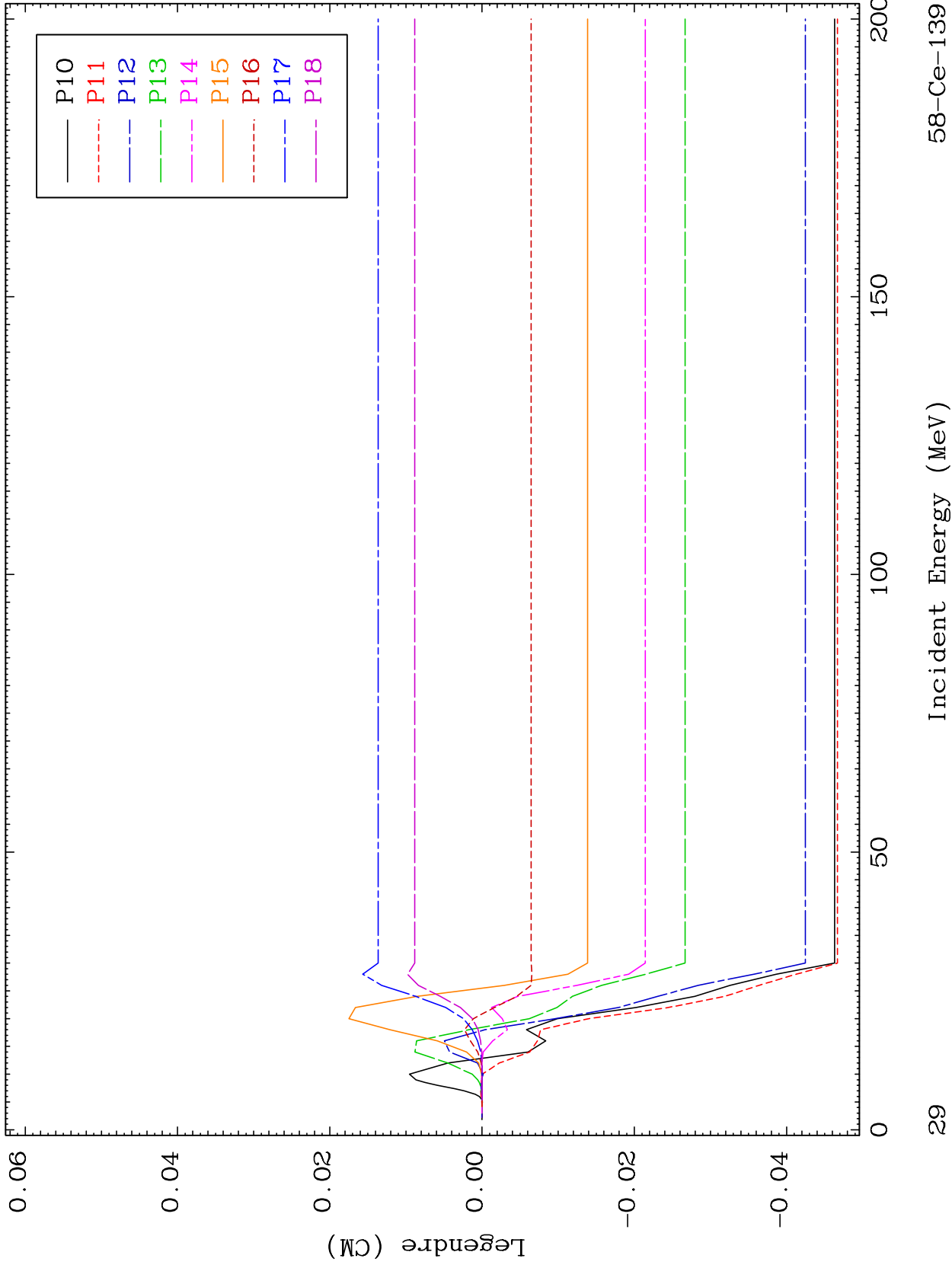
58-Ce-139



MAT 5834

1.320 MeV (n,n') Level
Legendre Coefficients

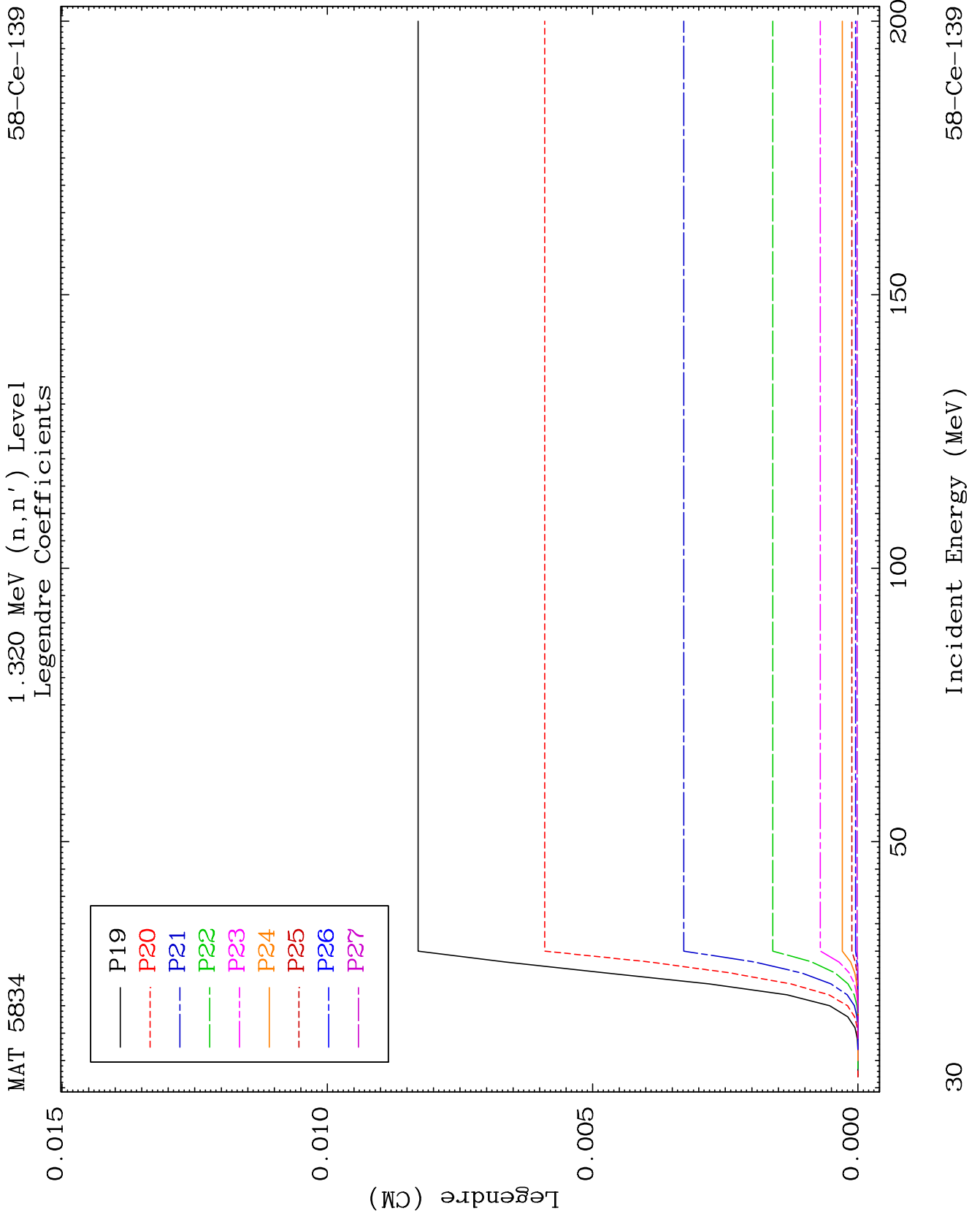
58-Ce-139



58-Ce-139

Incident Energy (MeV)

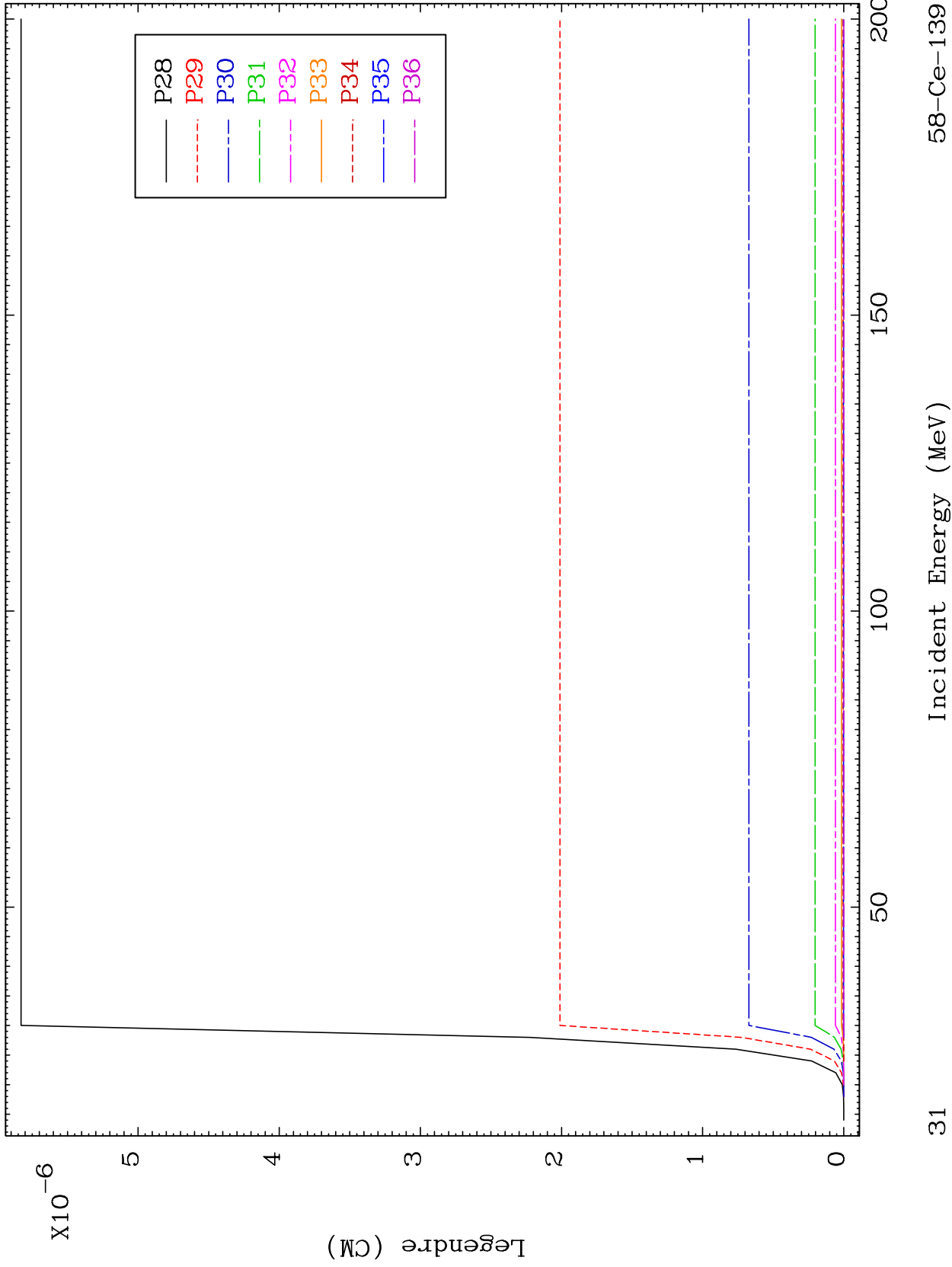
29

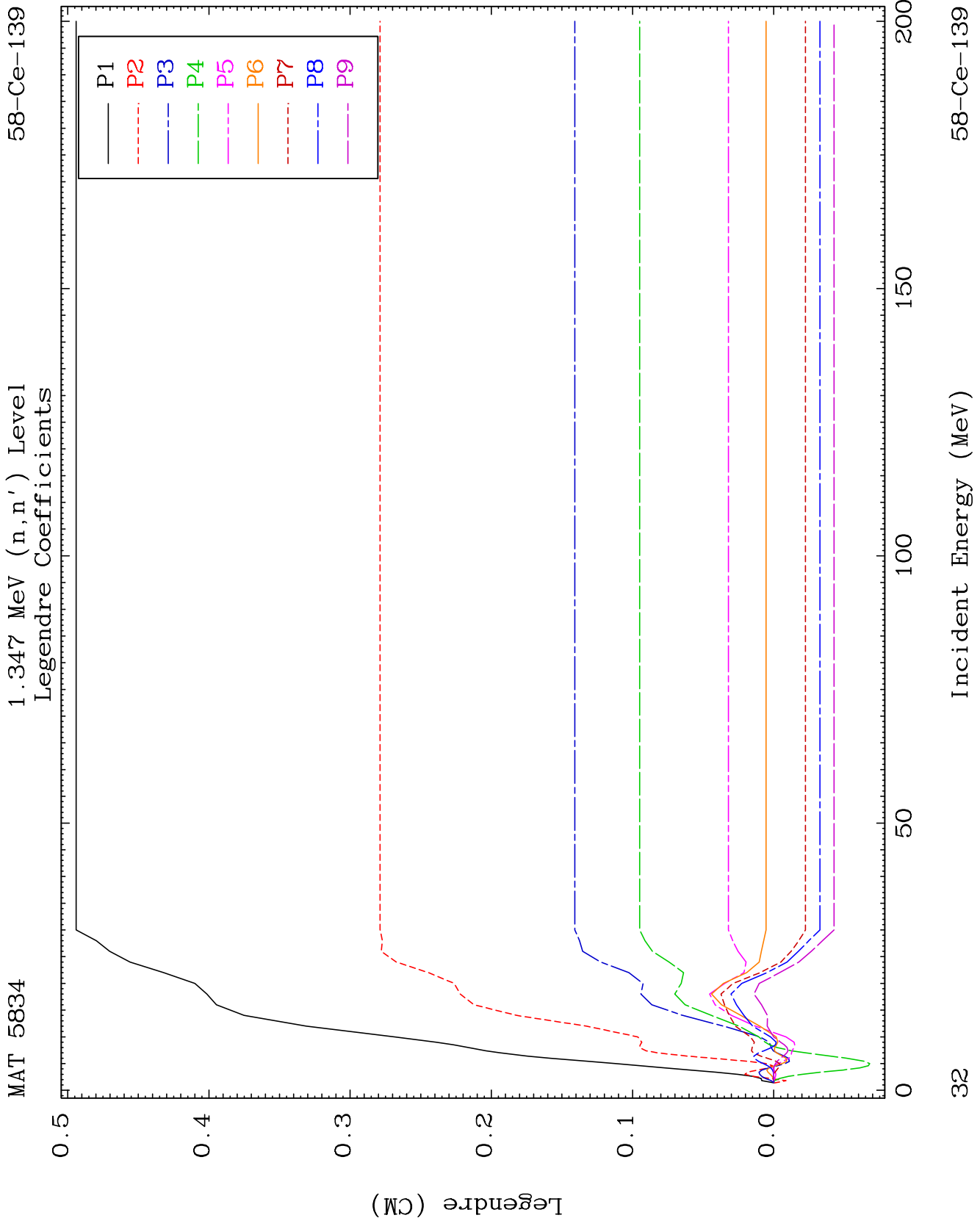


MAT 5834

1.320 MeV (n,n') Level
Legendre Coefficients

58-Ce-139

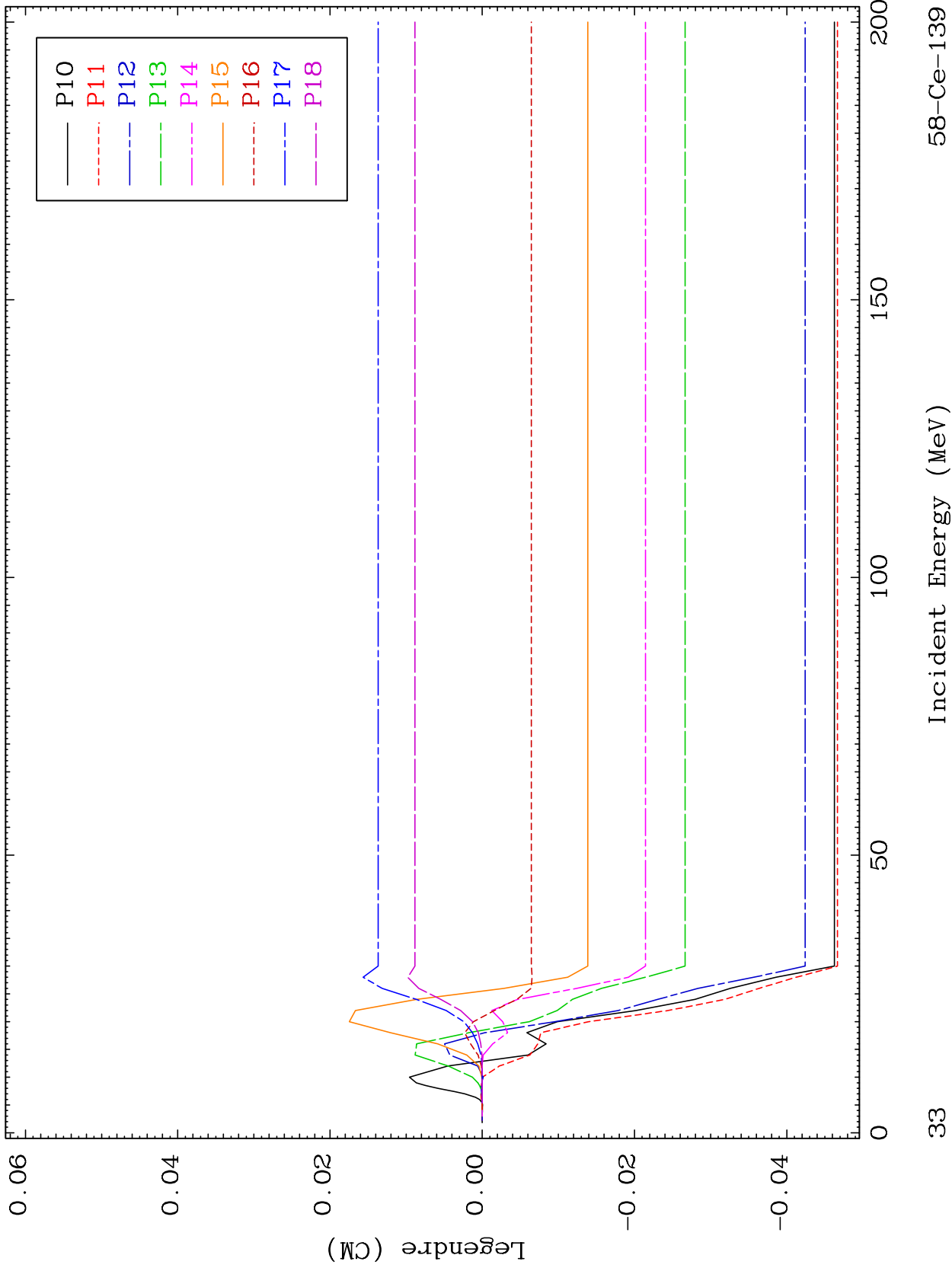




MAT 5834

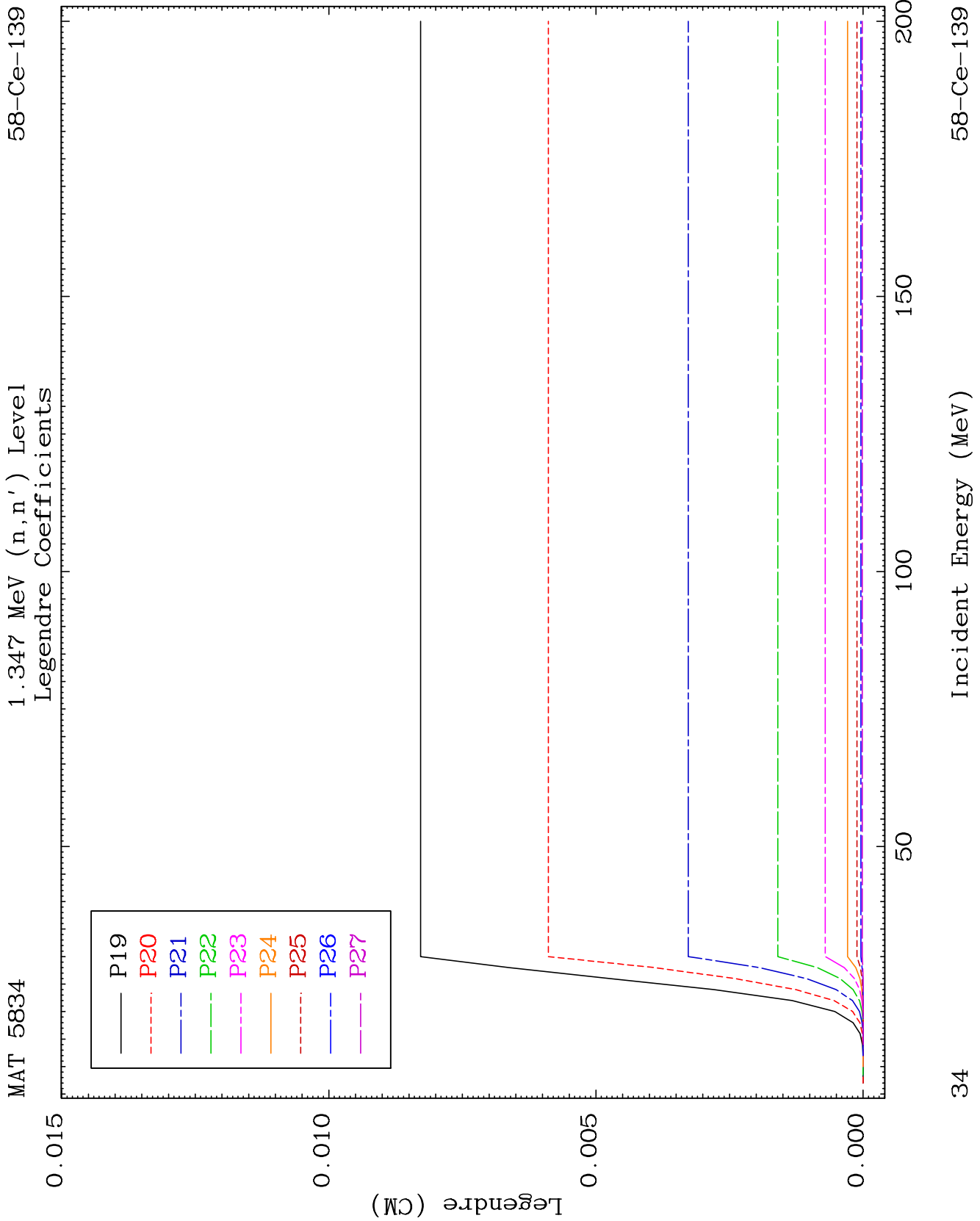
1.347 MeV (n,n') Level
Legendre Coefficients

58-Ce-139



33

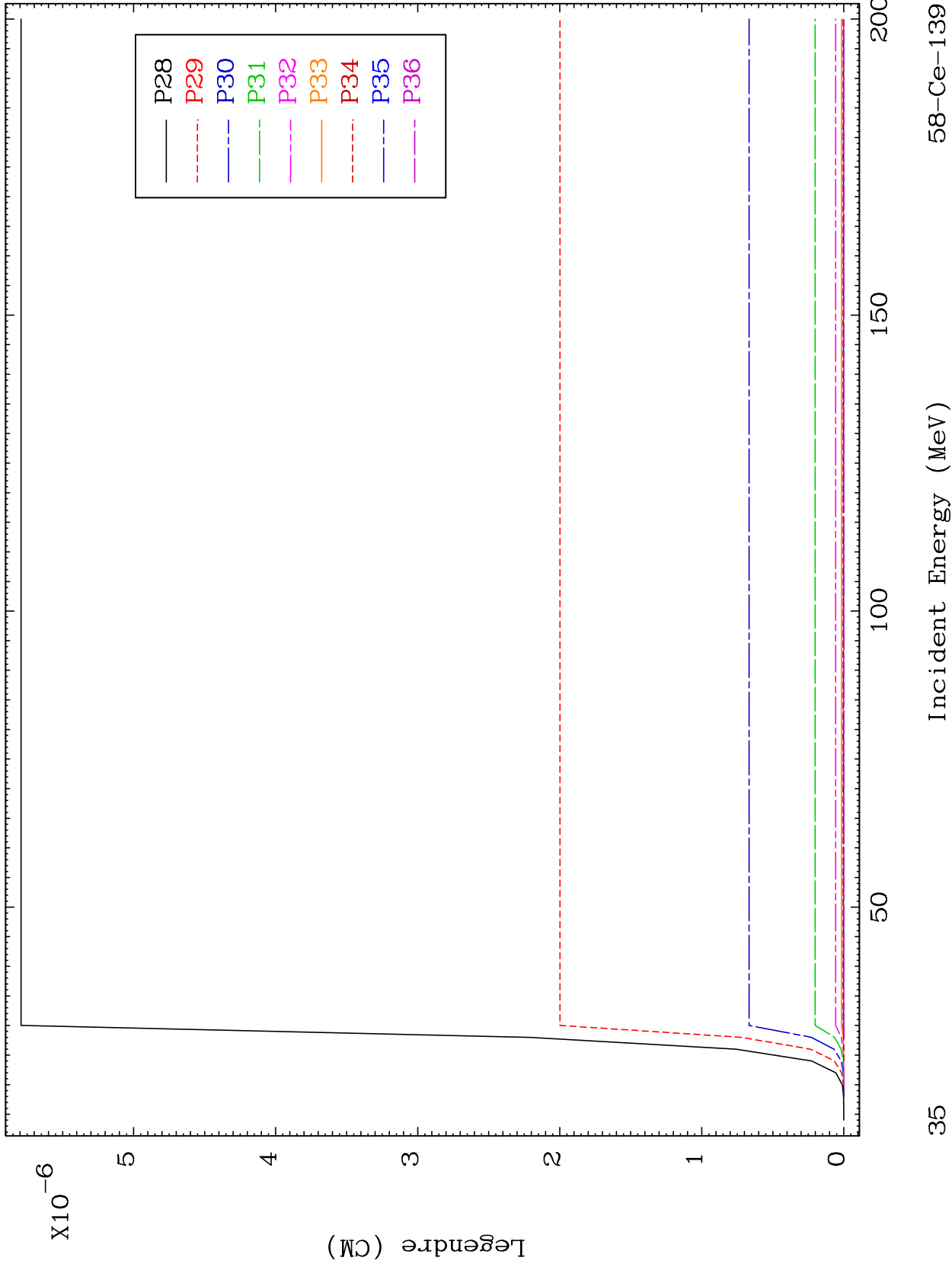
58-Ce-139



MAT 5834

1.347 MeV (n,n') Level
Legendre Coefficients

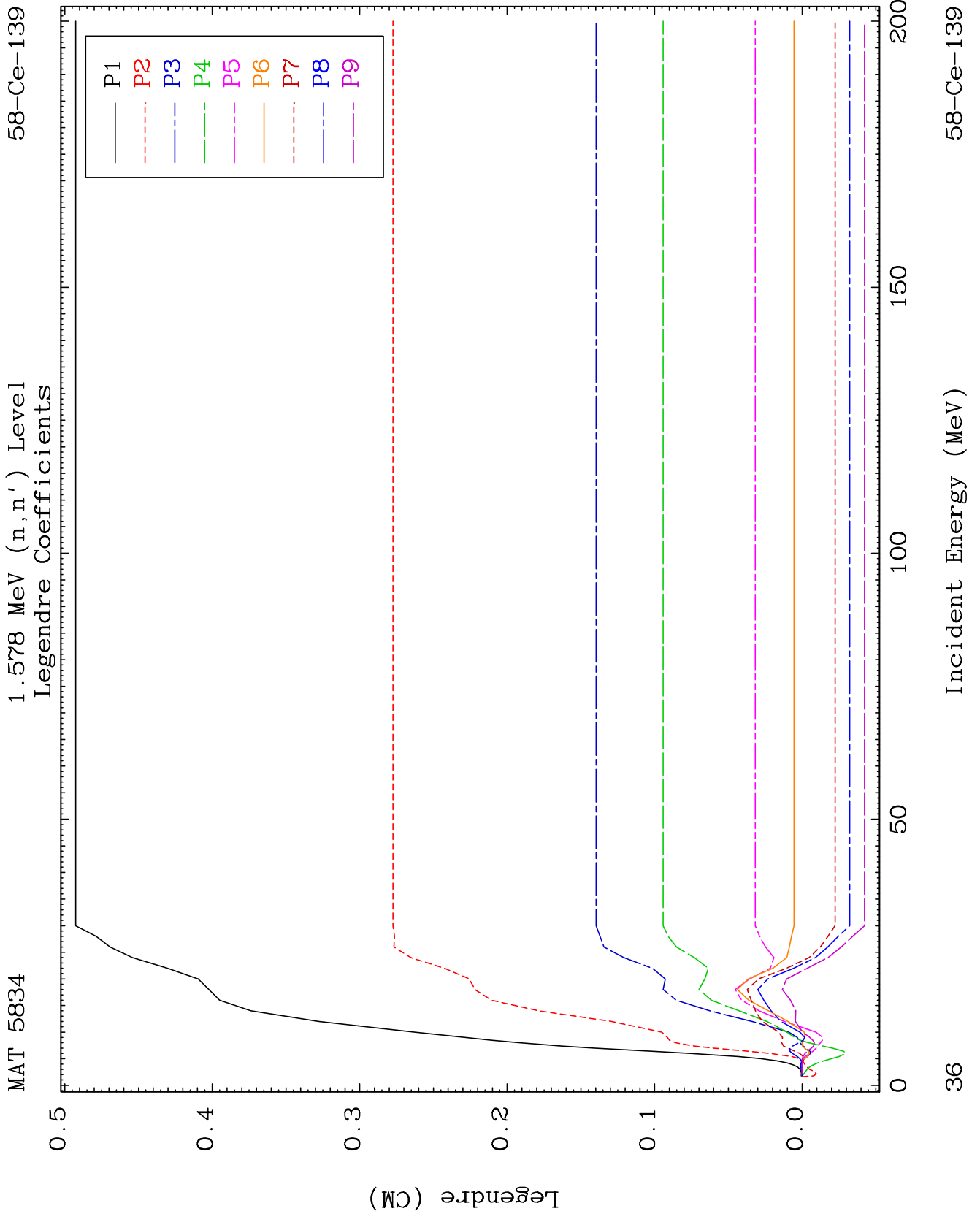
58-Ce-139

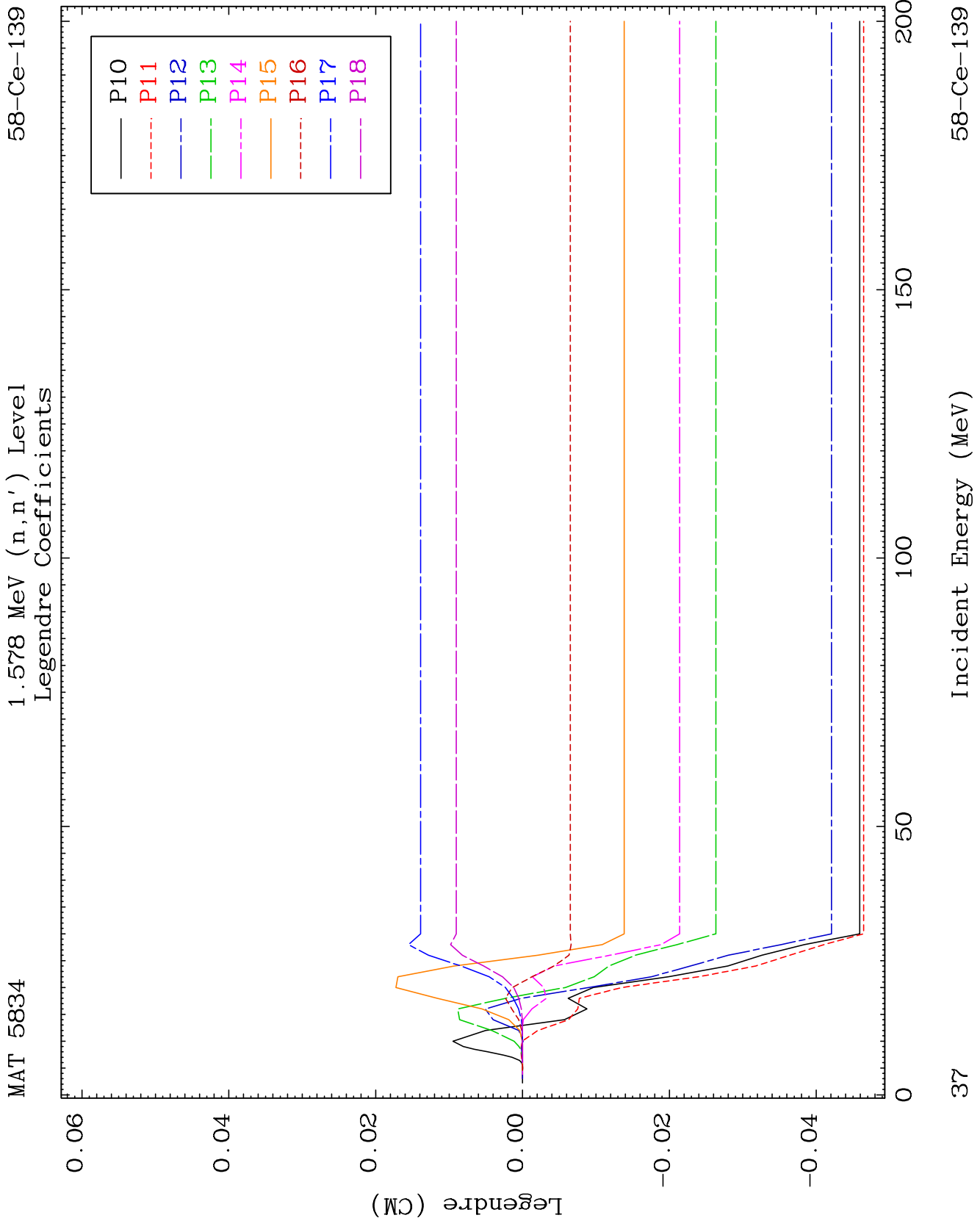


35

Incident Energy (MeV)

58-Ce-139

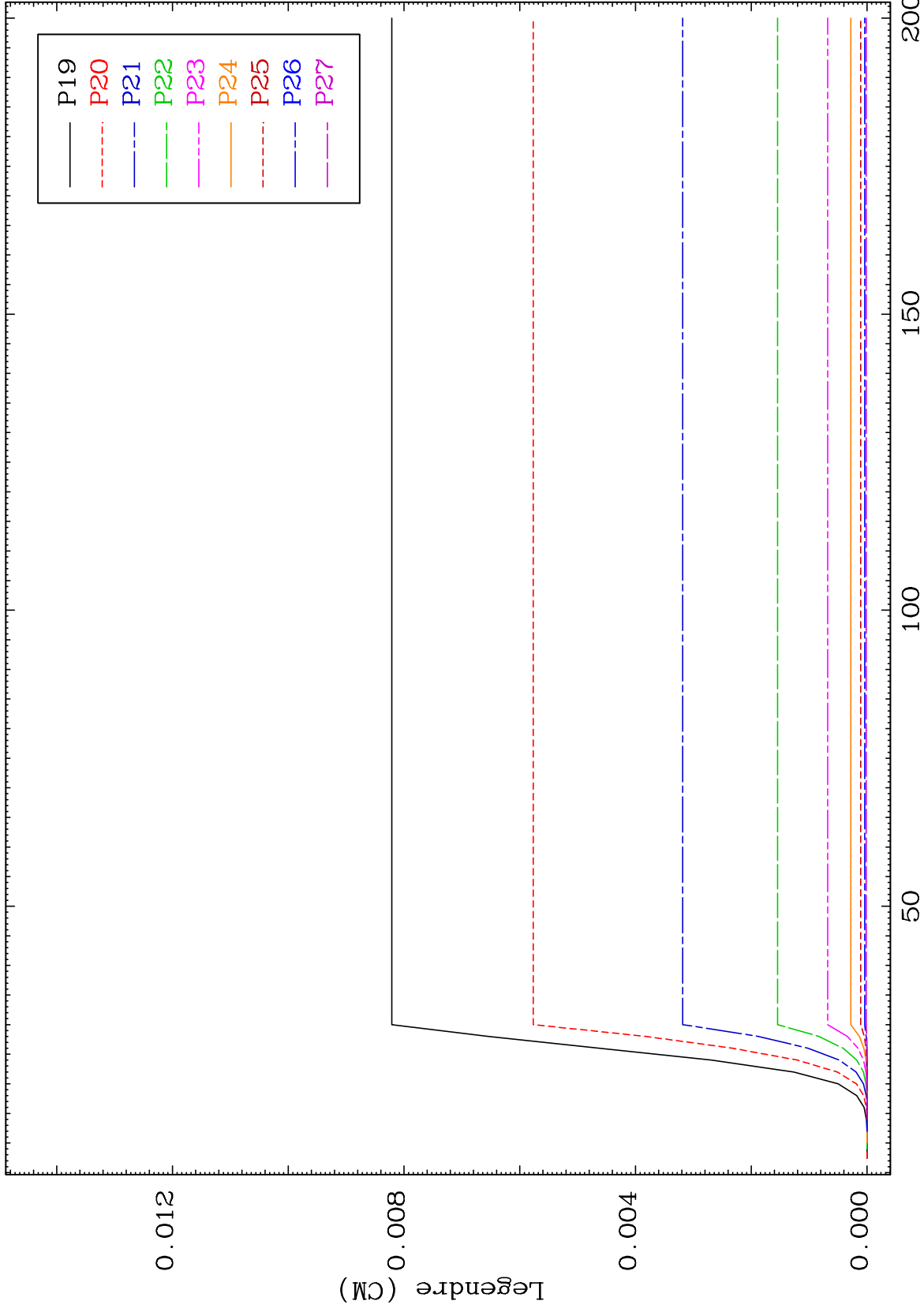




MAT 5834

1.578 MeV (n,n') Level
Legendre Coefficients

58-Ce-139



38

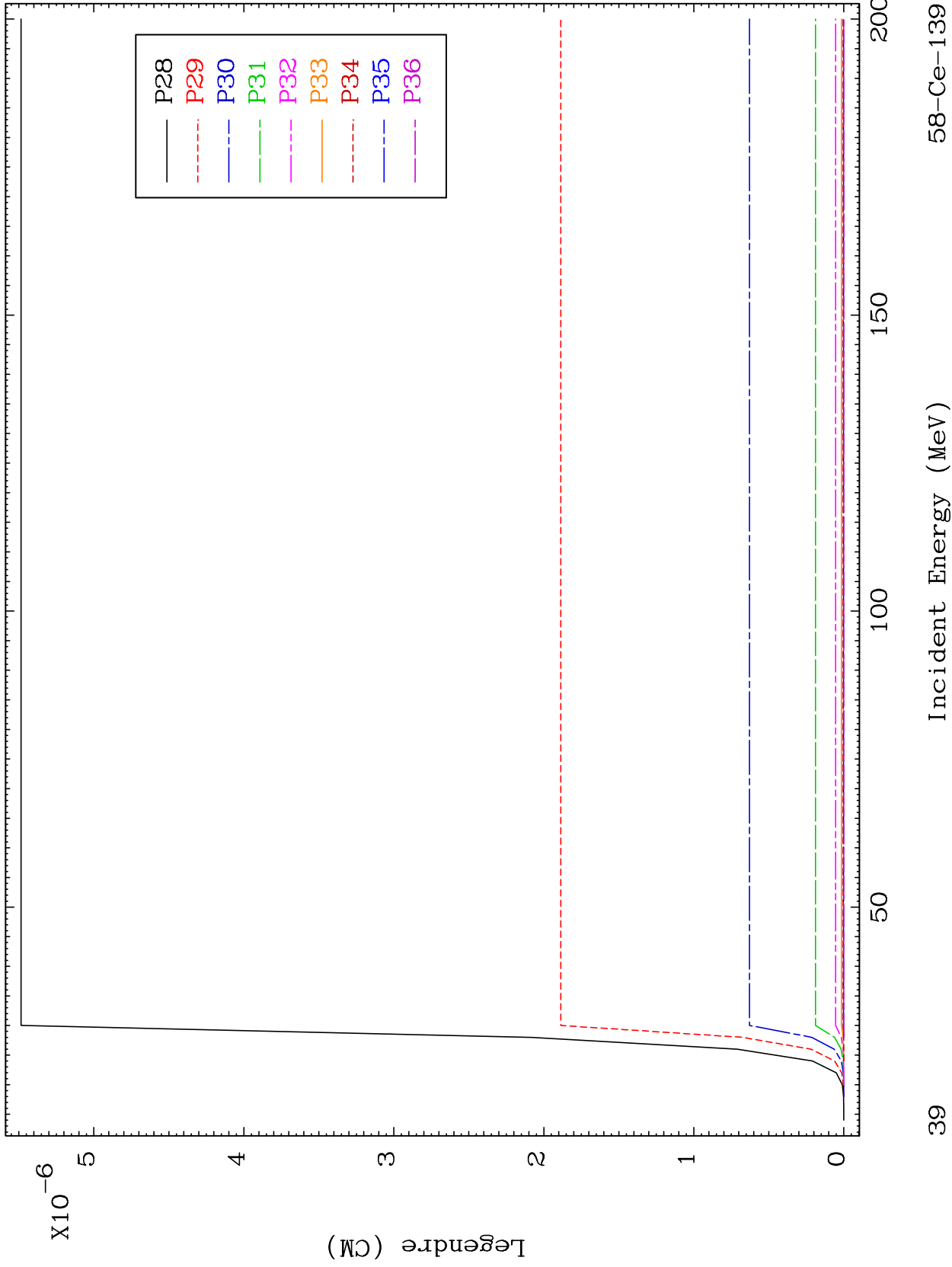
Incident Energy (MeV)

58-Ce-139

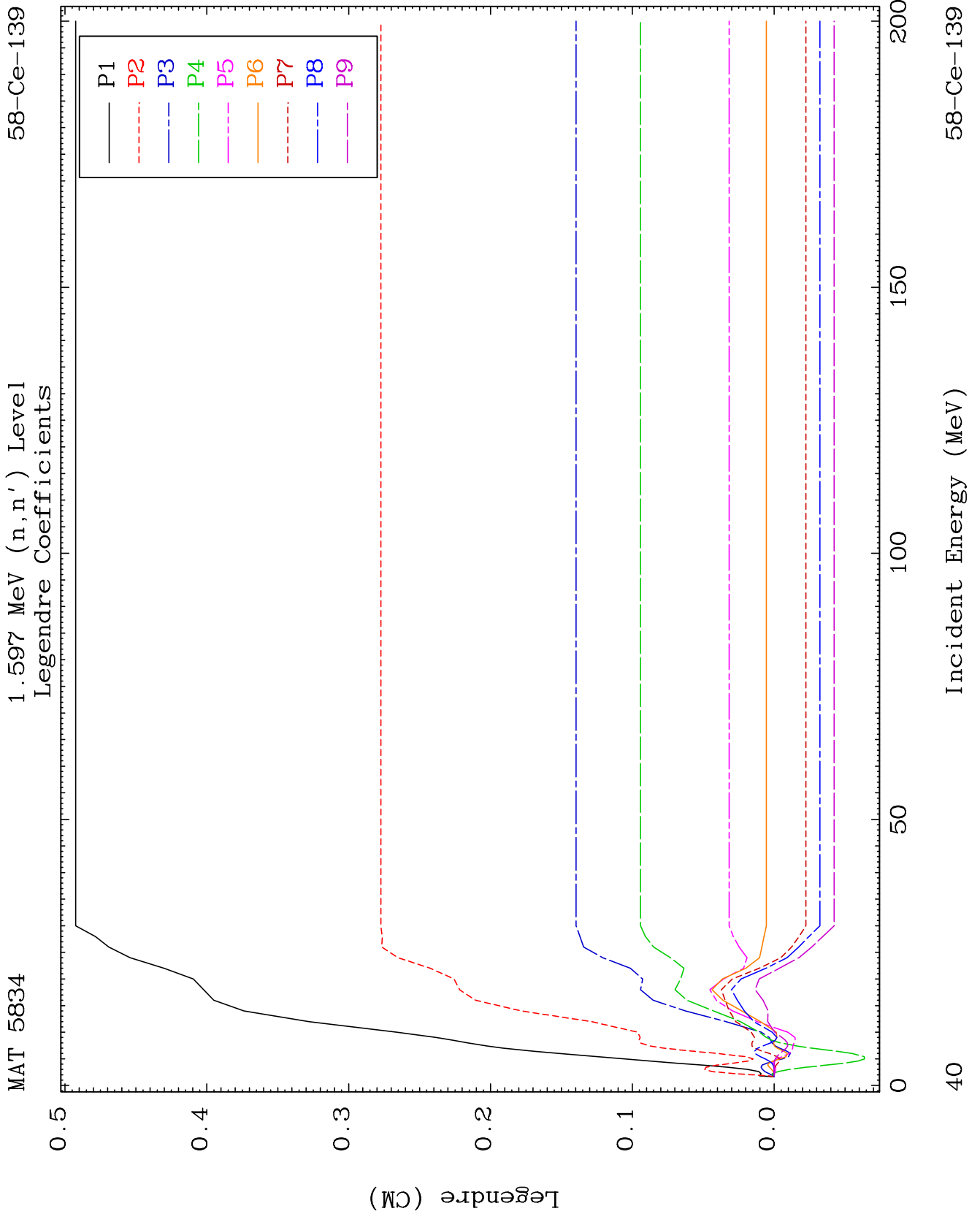
MAT 5834

1.578 MeV (n,n') Level
Legendre Coefficients

58-Ce-139



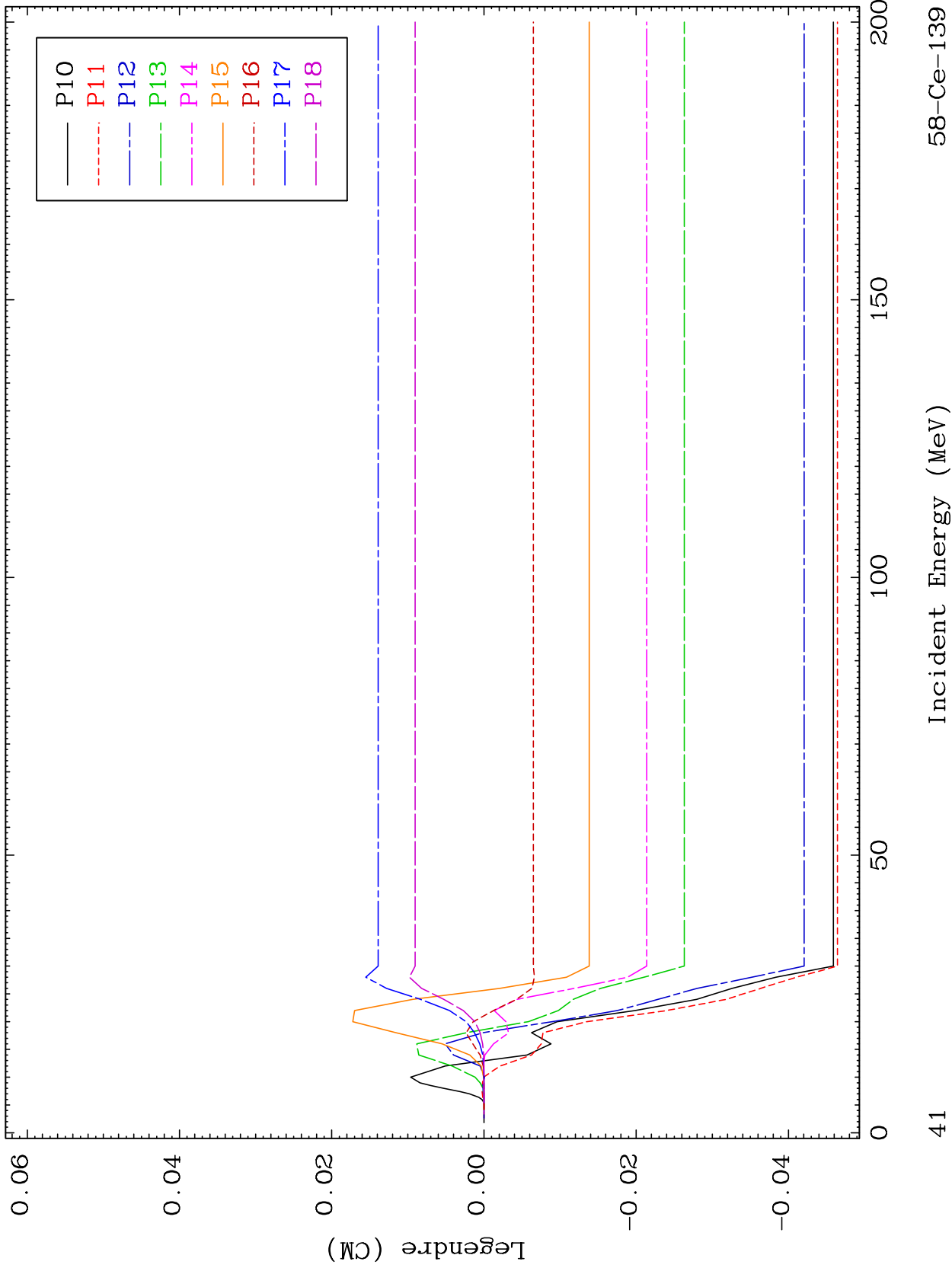
39



MAT 5834

1.597 MeV (n,n') Level
Legendre Coefficients

58-Ce-139



41

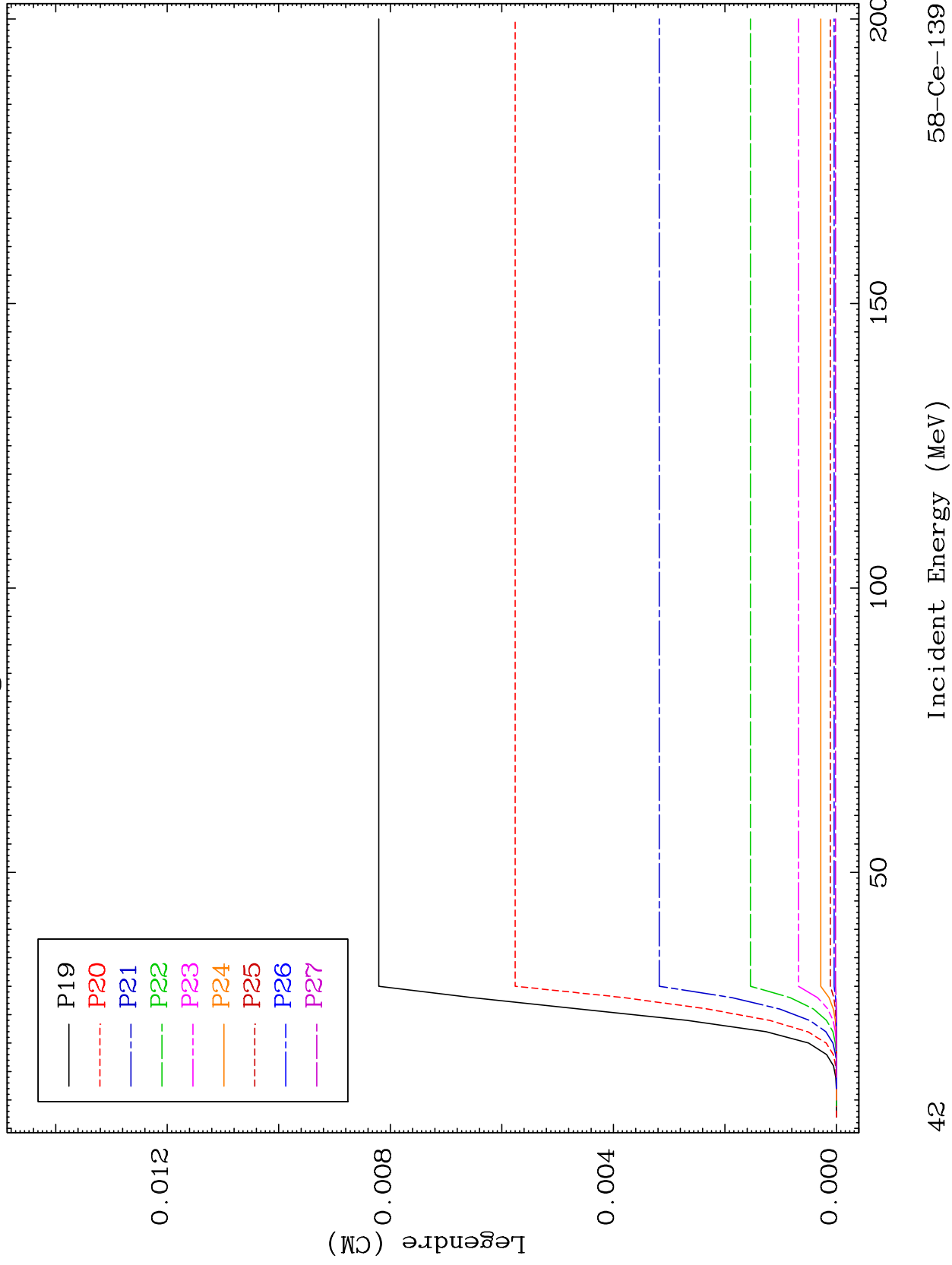
Incident Energy (MeV)

58-Ce-139

MAT 5834

1.597 MeV (n,n') Level
Legendre Coefficients

58-Ce-139



42

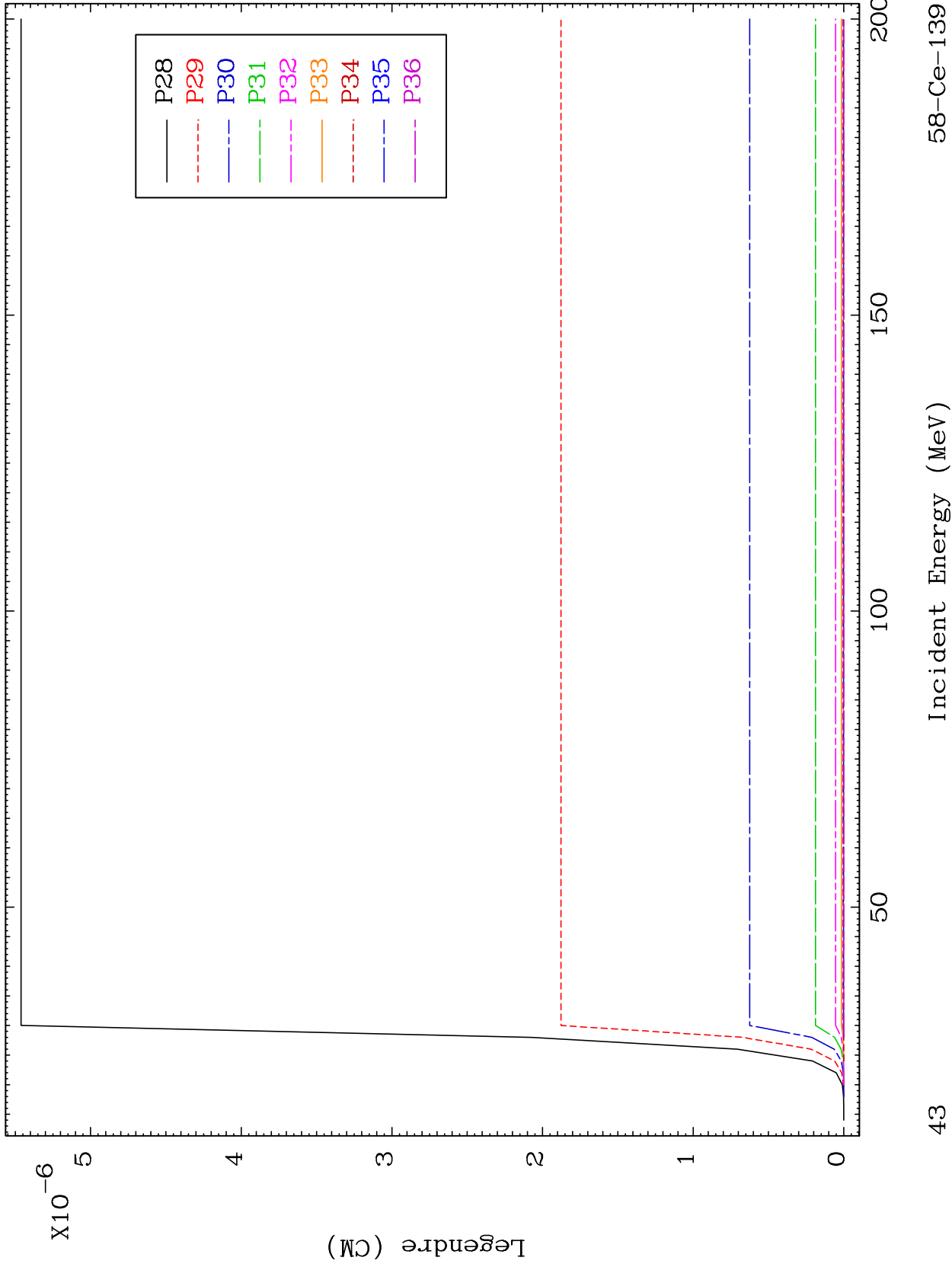
Incident Energy (MeV)

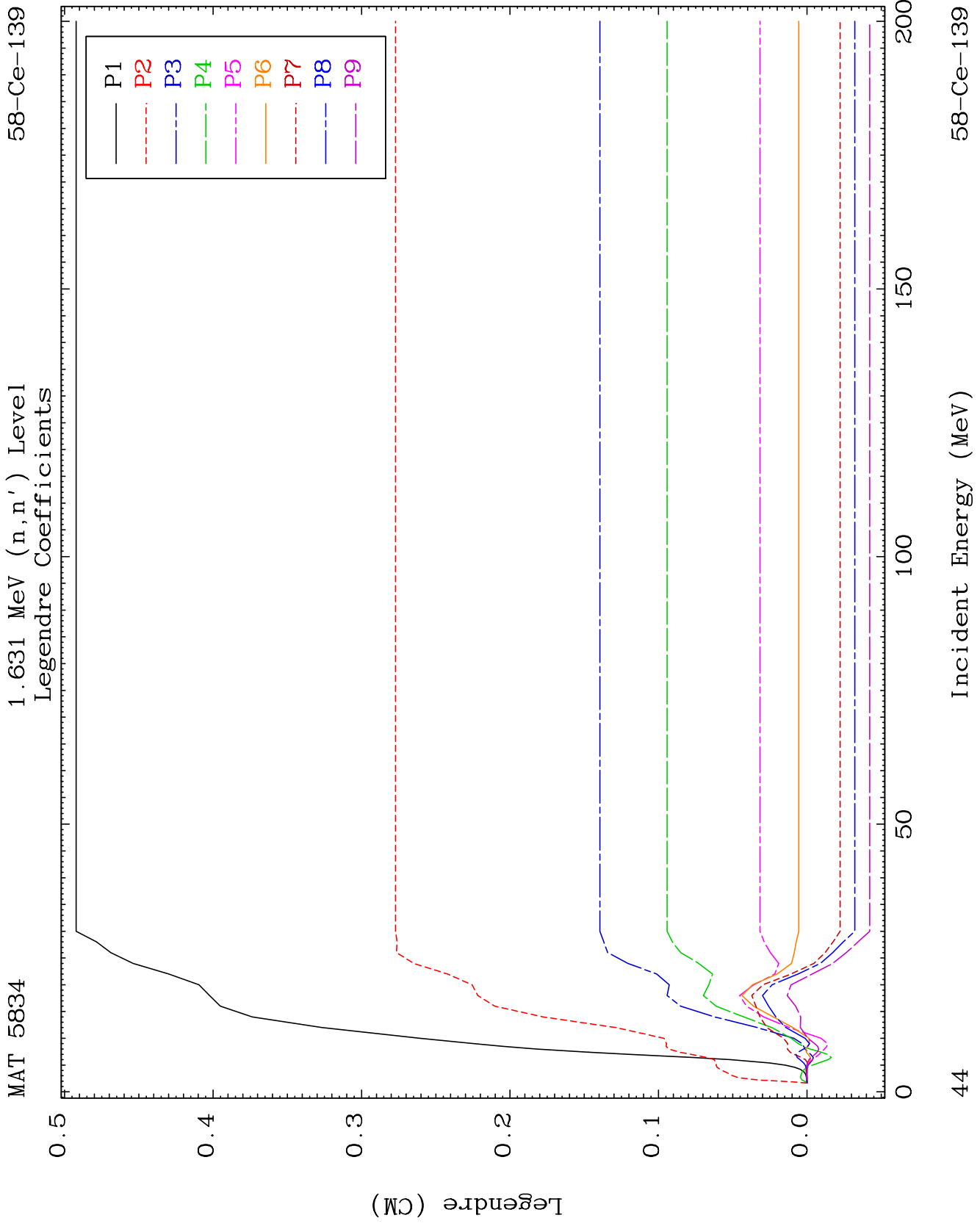
58-Ce-139

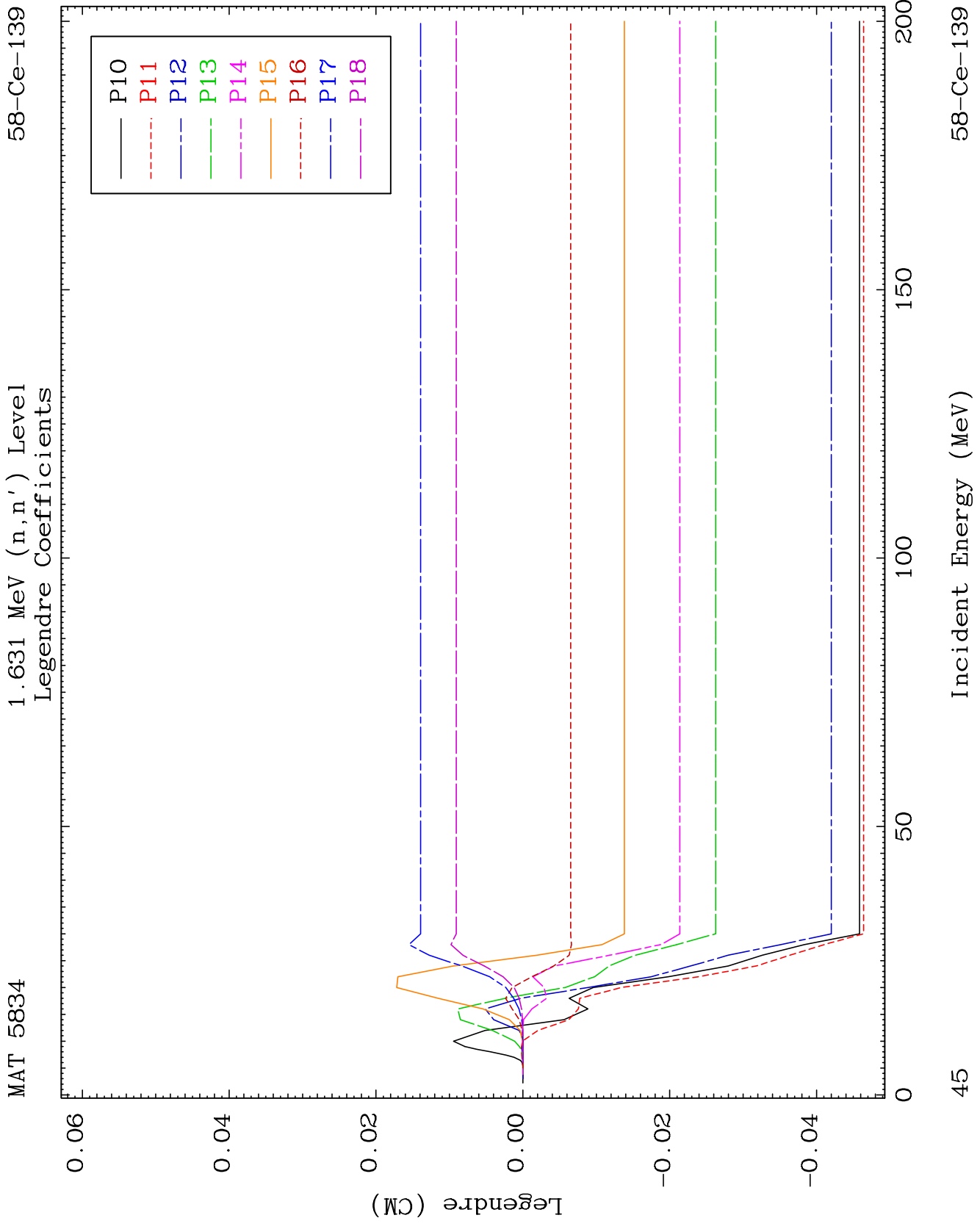
MAT 5834

1.597 MeV (n,n') Level
Legendre Coefficients

58-Ce-139



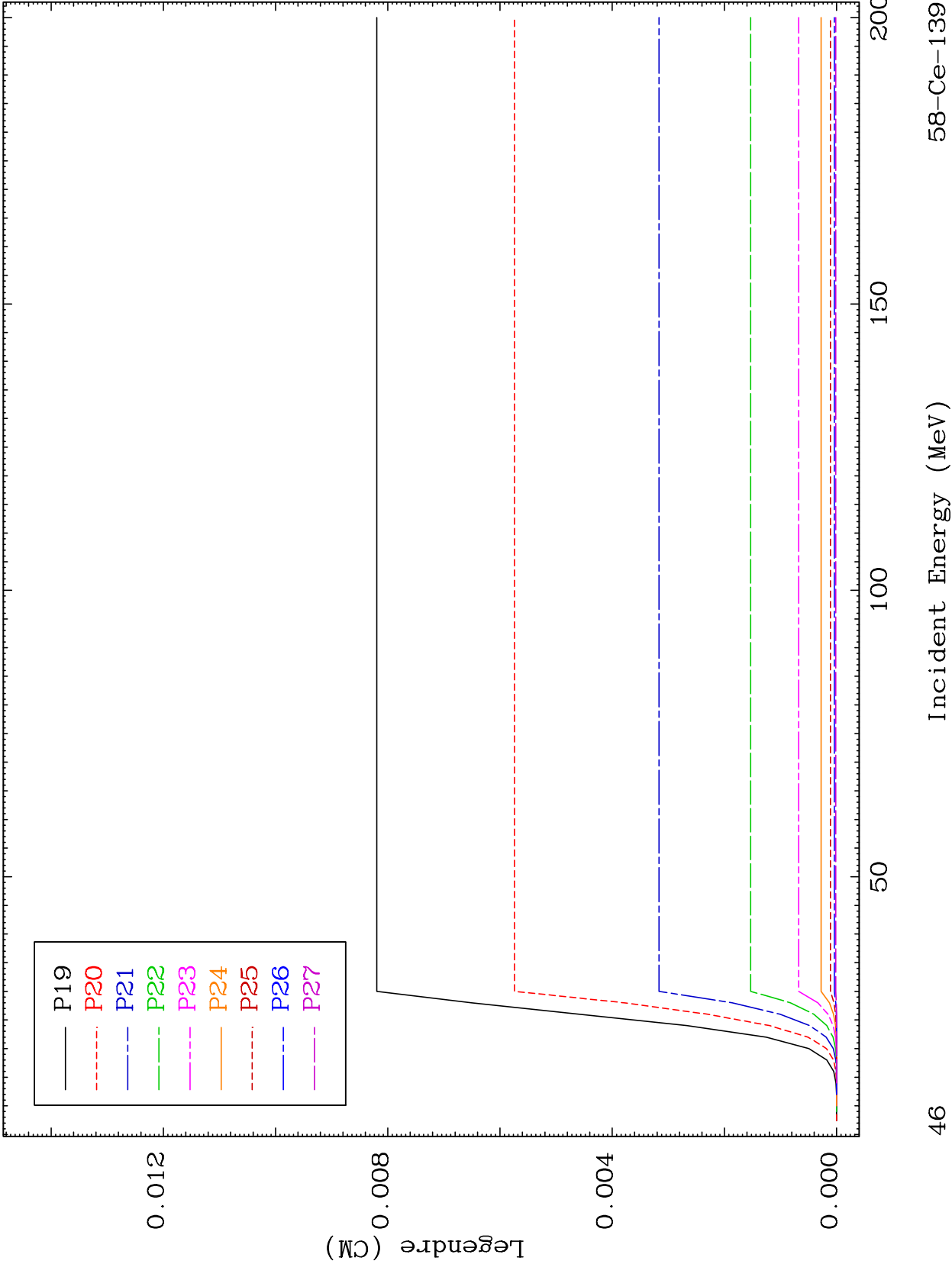




MAT 5834

1.631 MeV (n,n') Level
Legendre Coefficients

58-Ce-139



46

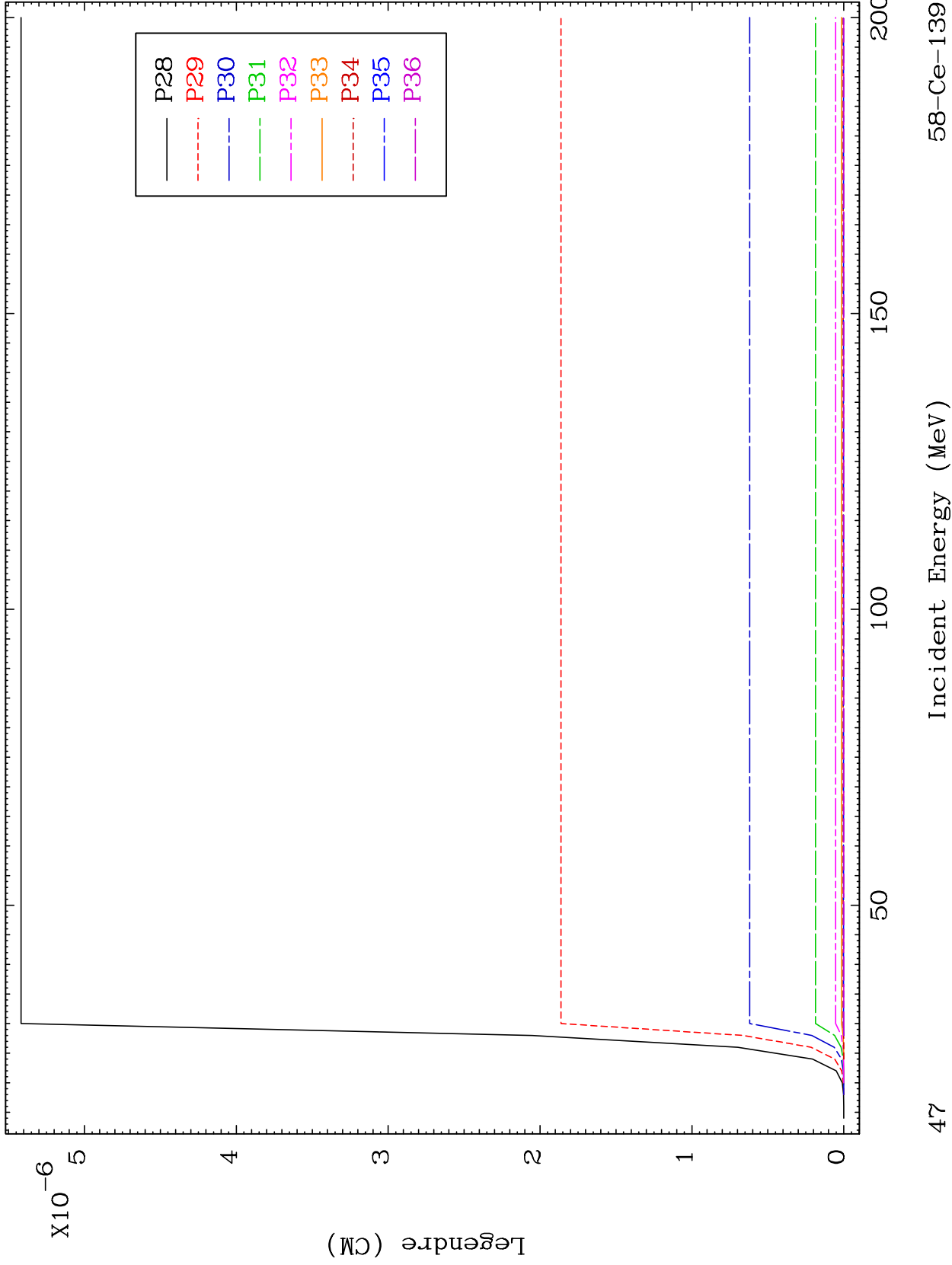
Incident Energy (MeV)

58-Ce-139

MAT 5834

1.631 MeV (n,n') Level
Legendre Coefficients

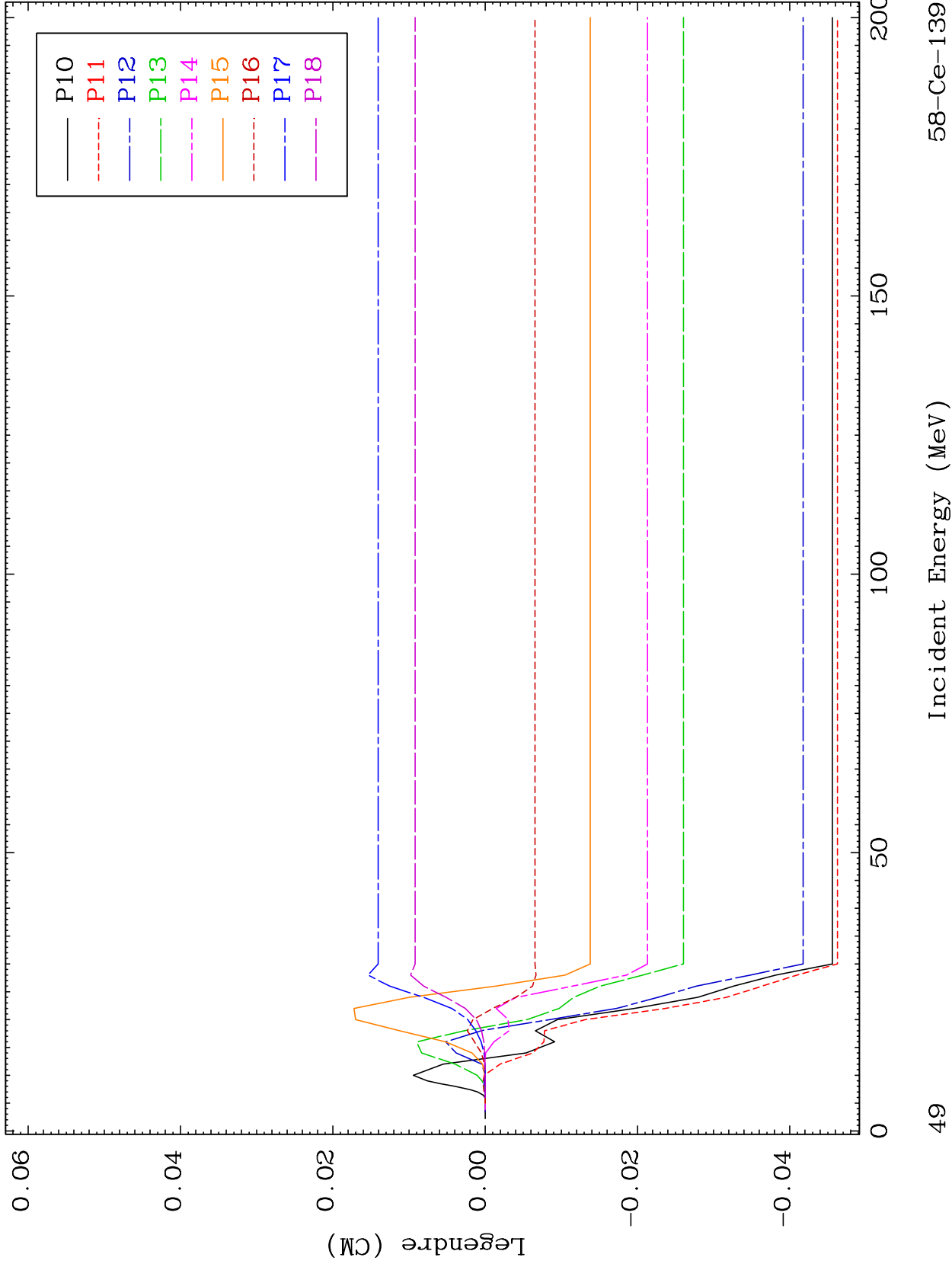
58-Ce-139



MAT 5834

1.790 MeV (n,n') Level
Legendre Coefficients

58-Ce-139



49

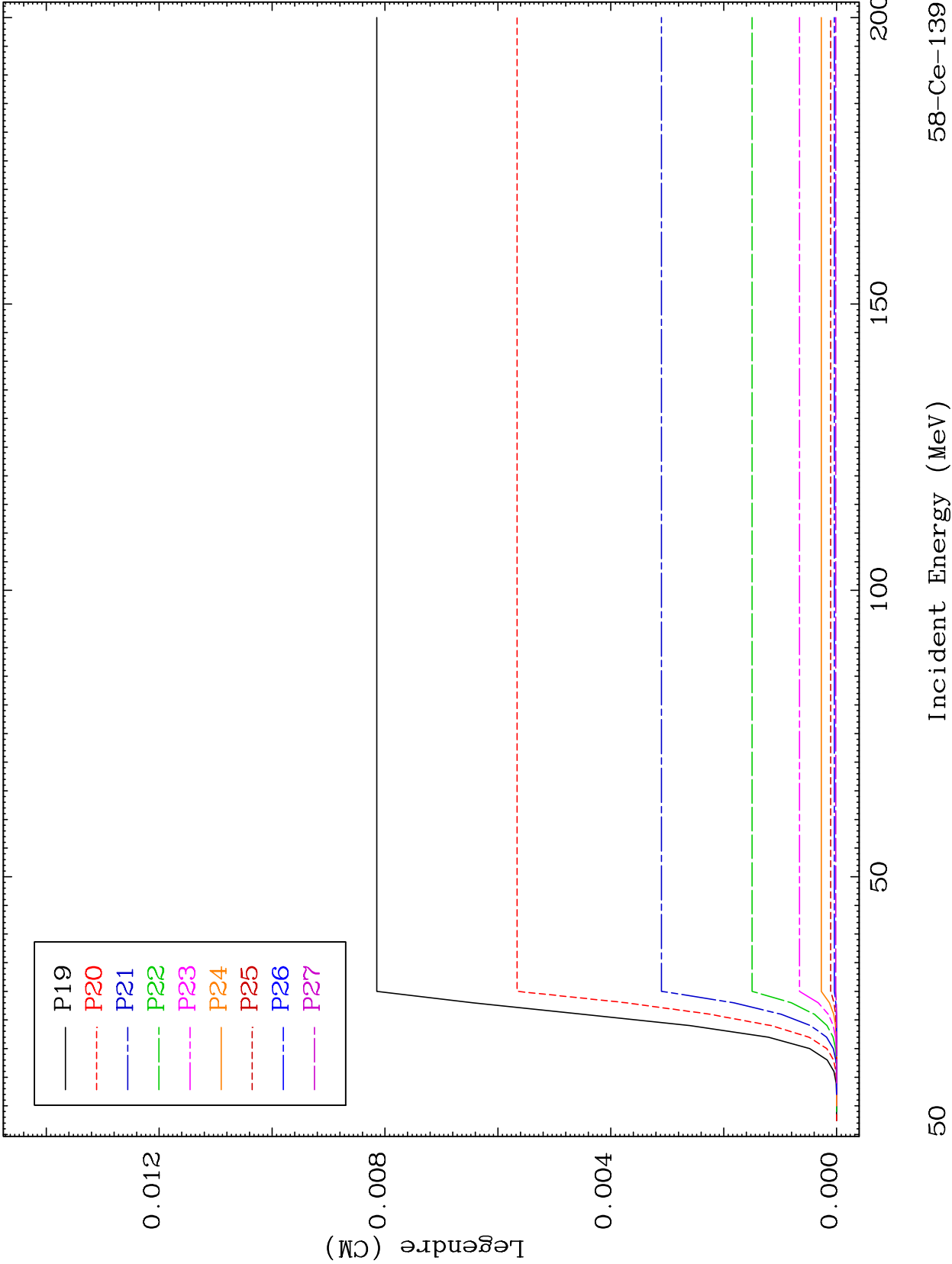
Incident Energy (MeV)

58-Ce-139

MAT 5834

1.790 MeV (n,n') Level
Legendre Coefficients

58-Ce-139



58-Ce-139

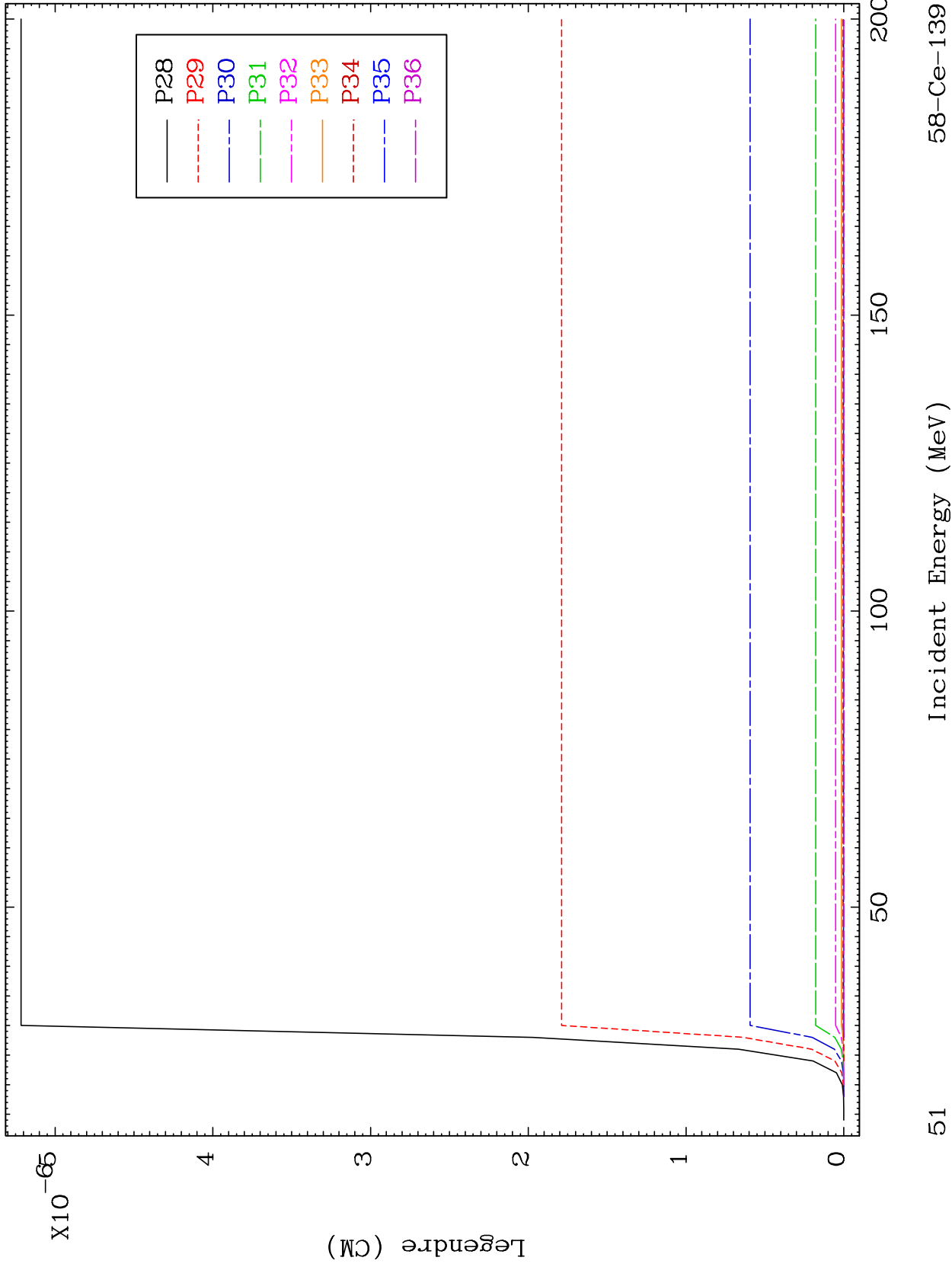
Incident Energy (MeV)

50

MAT 5834

1.790 MeV (n, n') Level
Legendre Coefficients

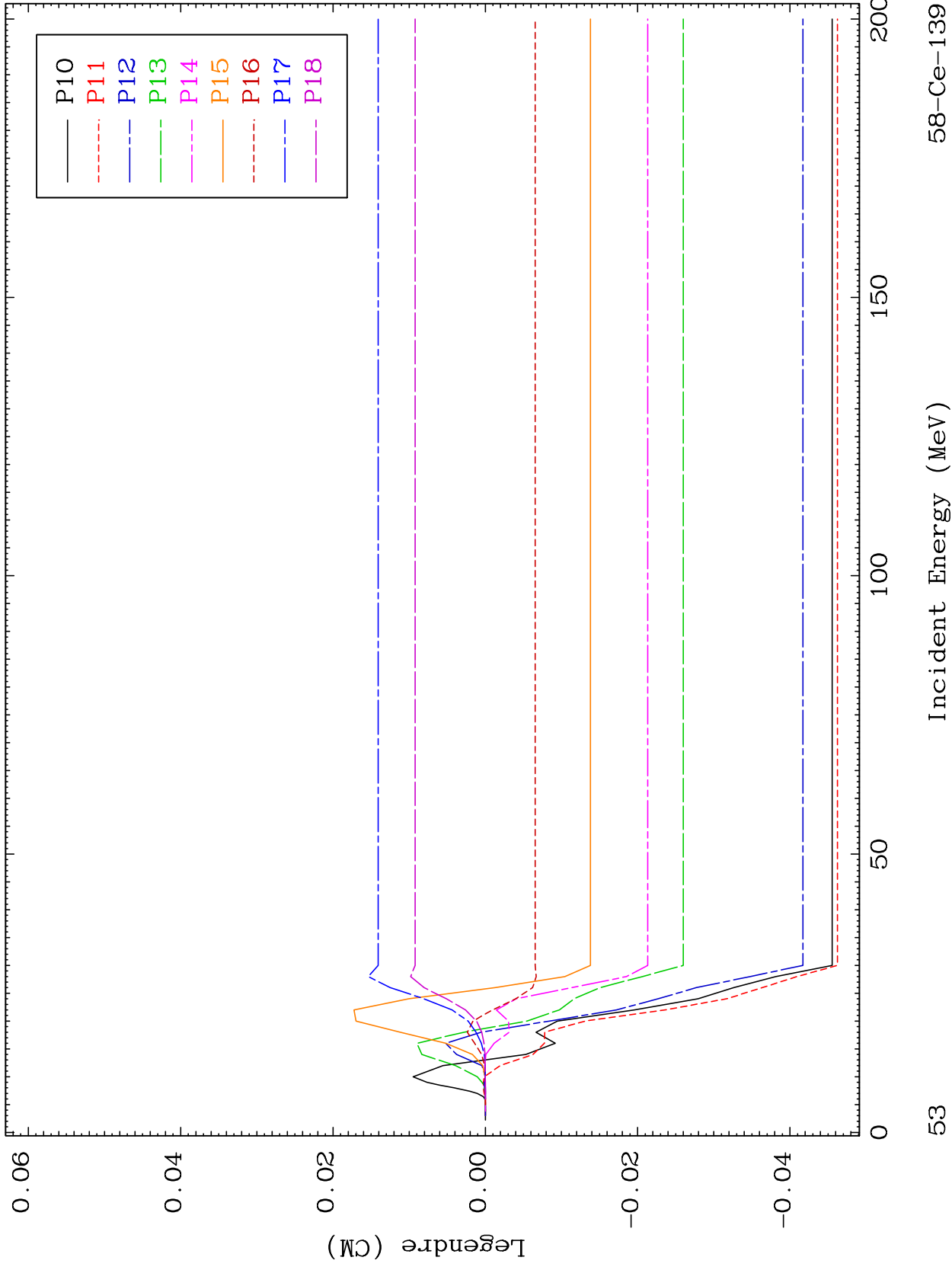
58-Ce-139



MAT 5834

1.818 MeV (n,n') Level
Legendre Coefficients

58-Ce-139



53

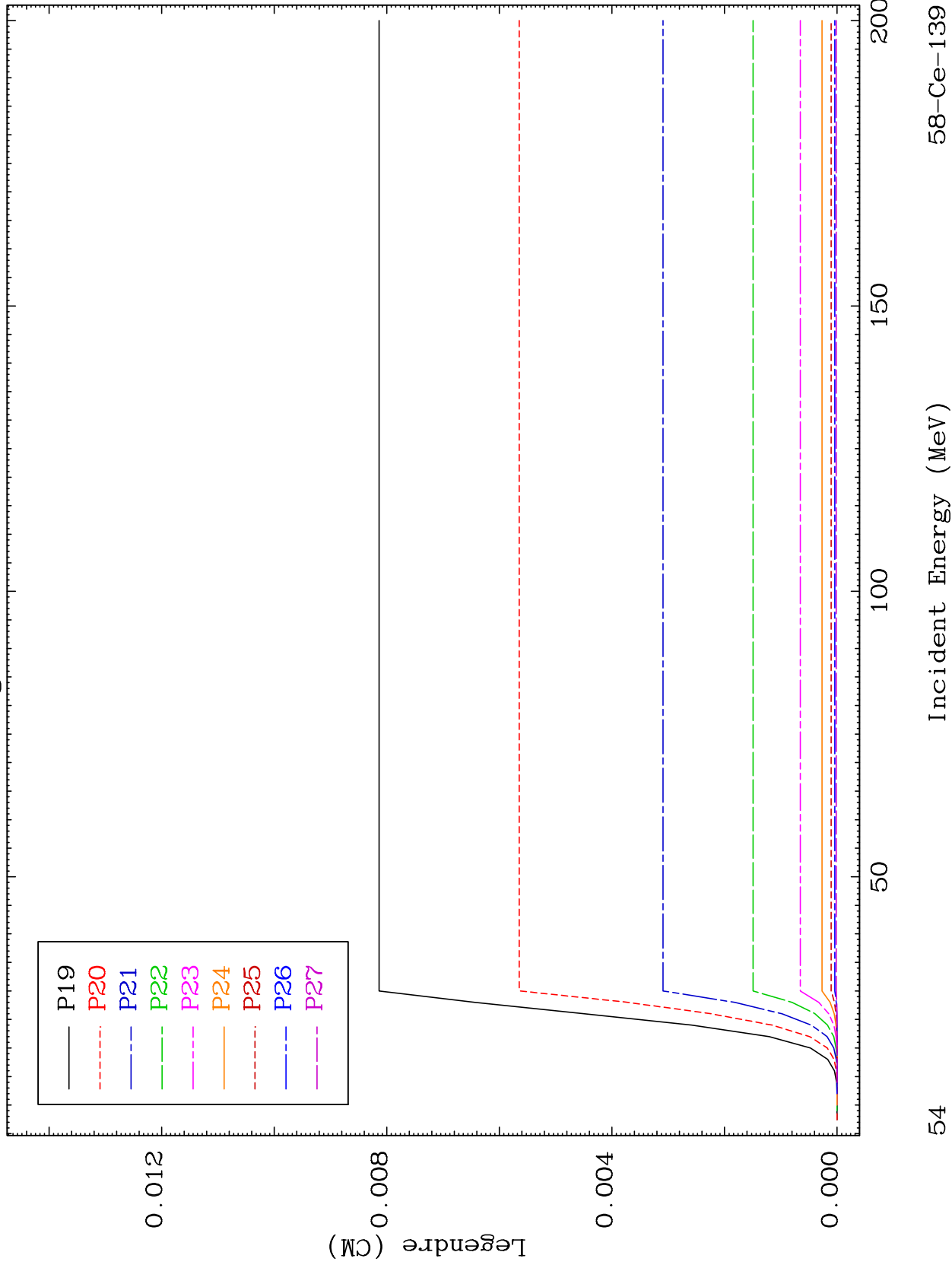
Incident Energy (MeV)

58-Ce-139

MAT 5834

1.818 MeV (n,n') Level
Legendre Coefficients

58-Ce-139



54

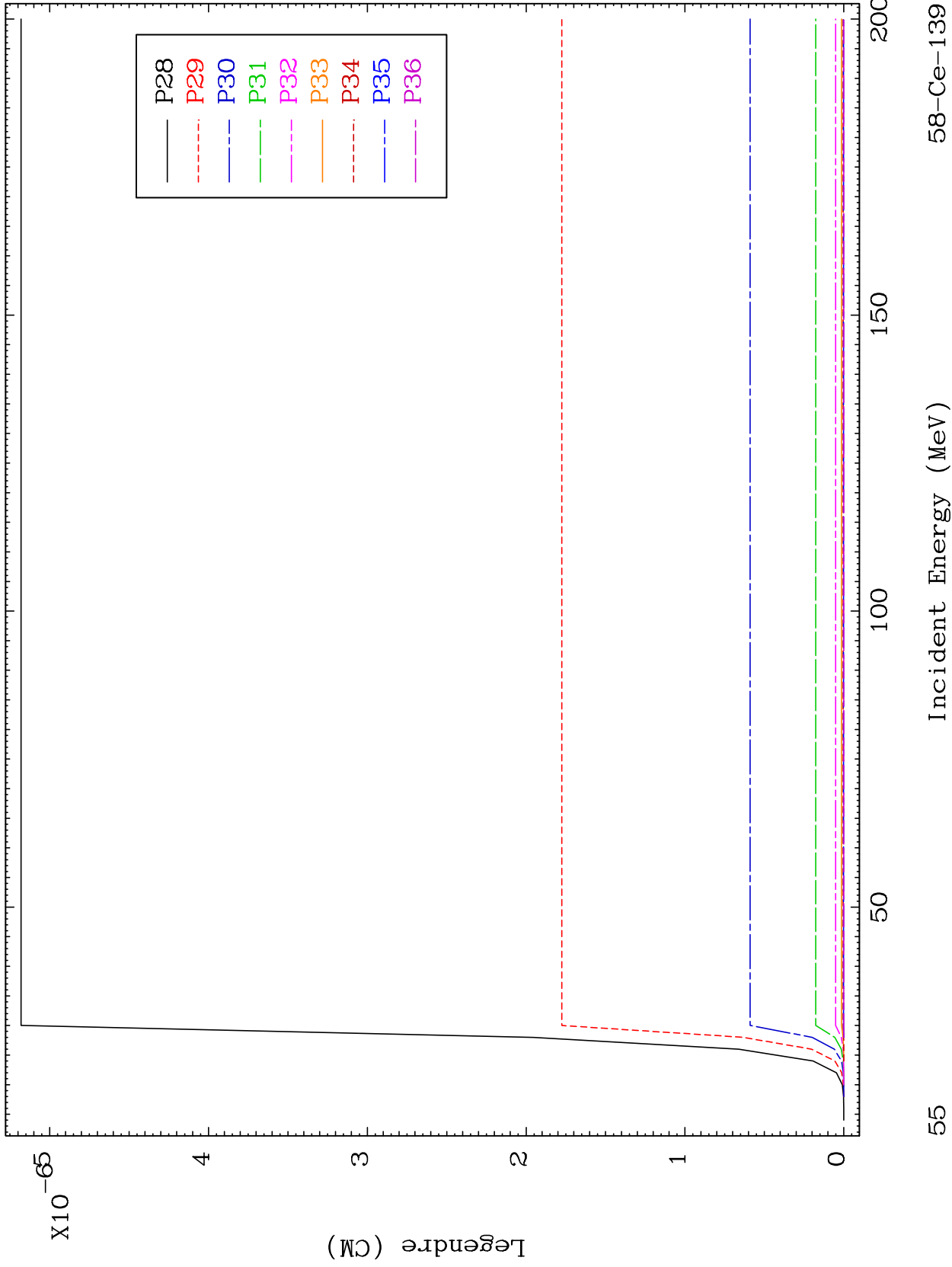
Incident Energy (MeV)

58-Ce-139

MAT 5834

1.818 MeV (n,n') Level
Legendre Coefficients

58-Ce-139



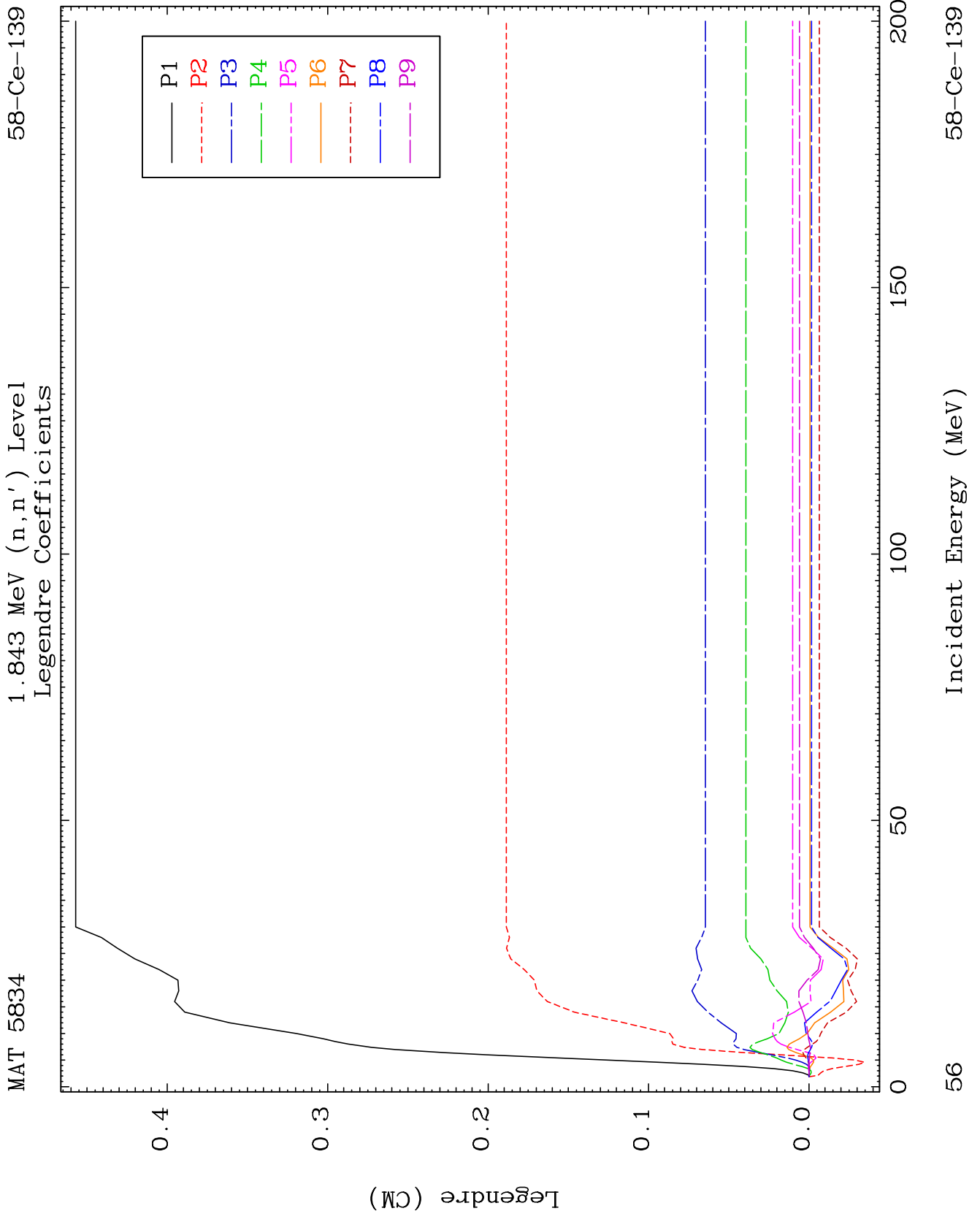
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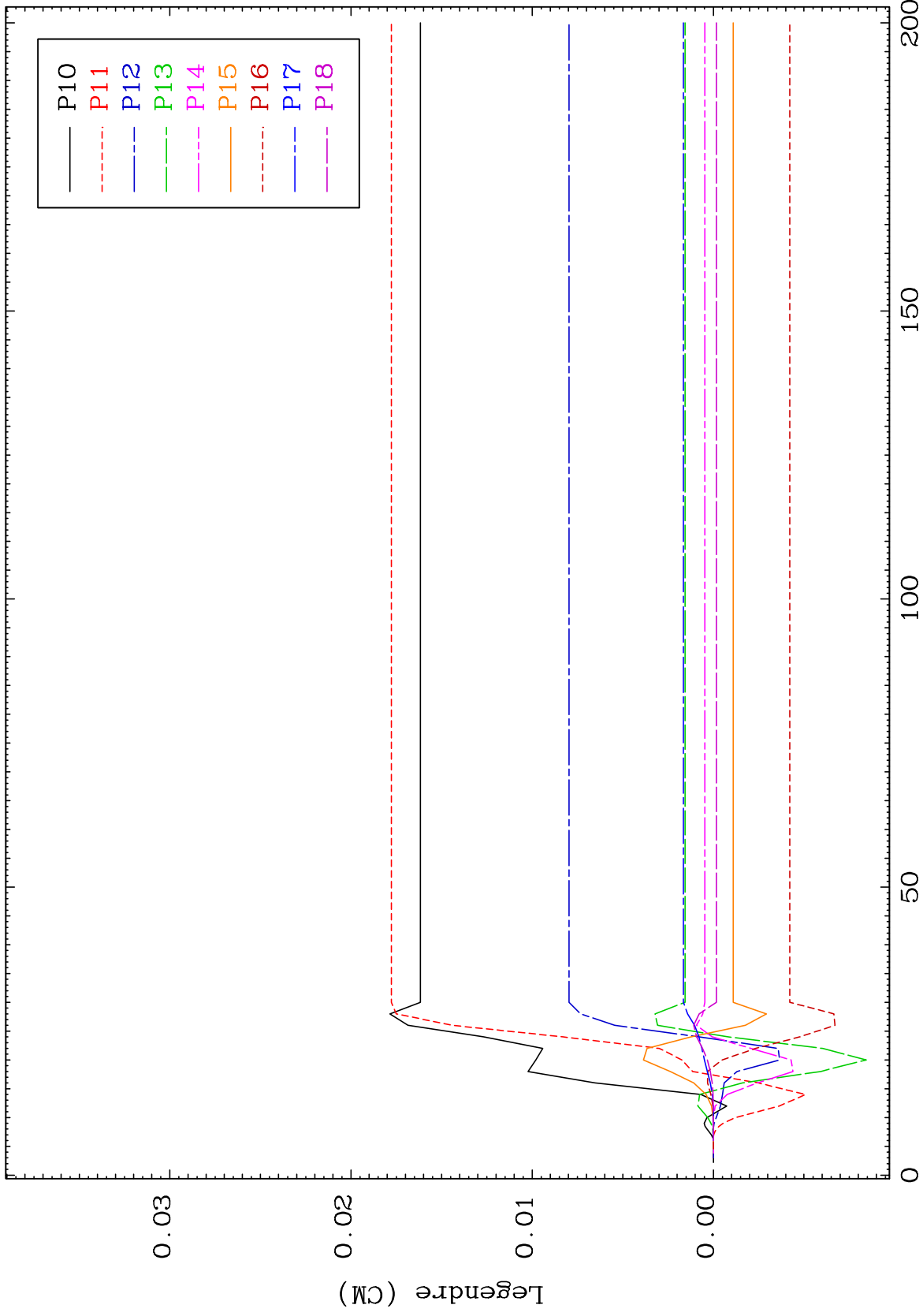
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100

150

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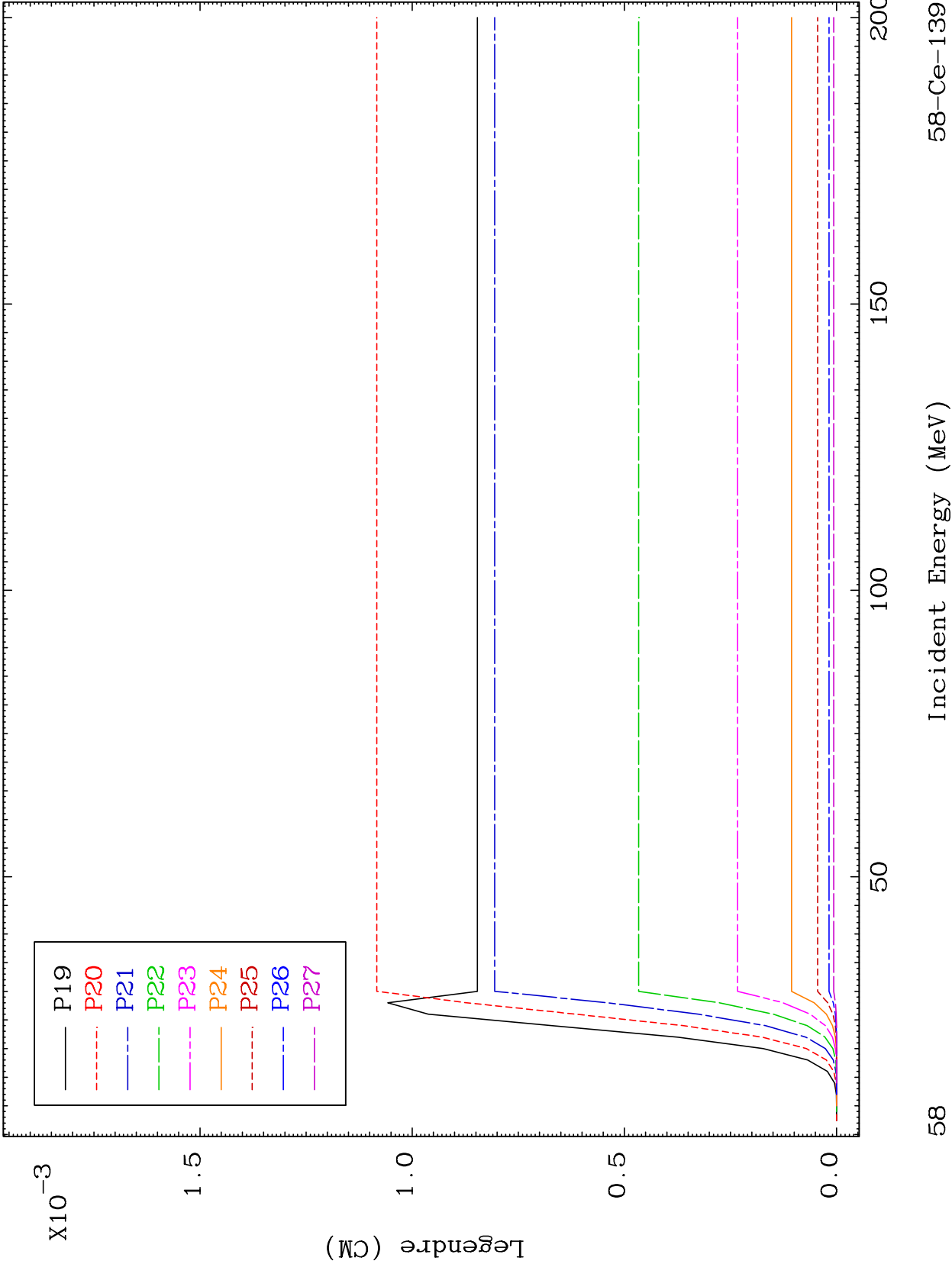




MAT 5834

1.843 MeV (n,n') Level
Legendre Coefficients

58-Ce-139



58

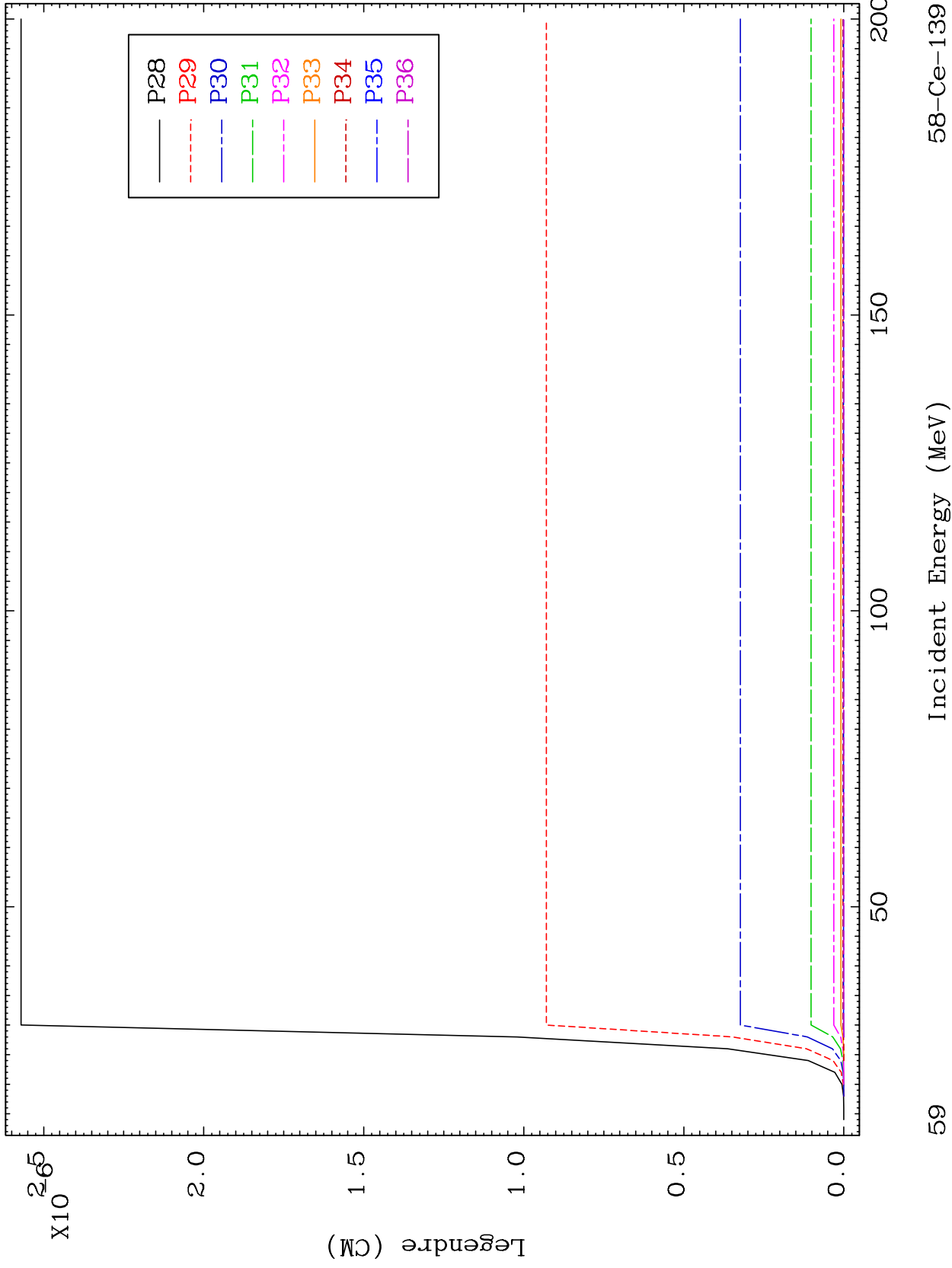
Incident Energy (MeV)

58-Ce-139

MAT 5834

1.843 MeV (n,n') Level
Legendre Coefficients

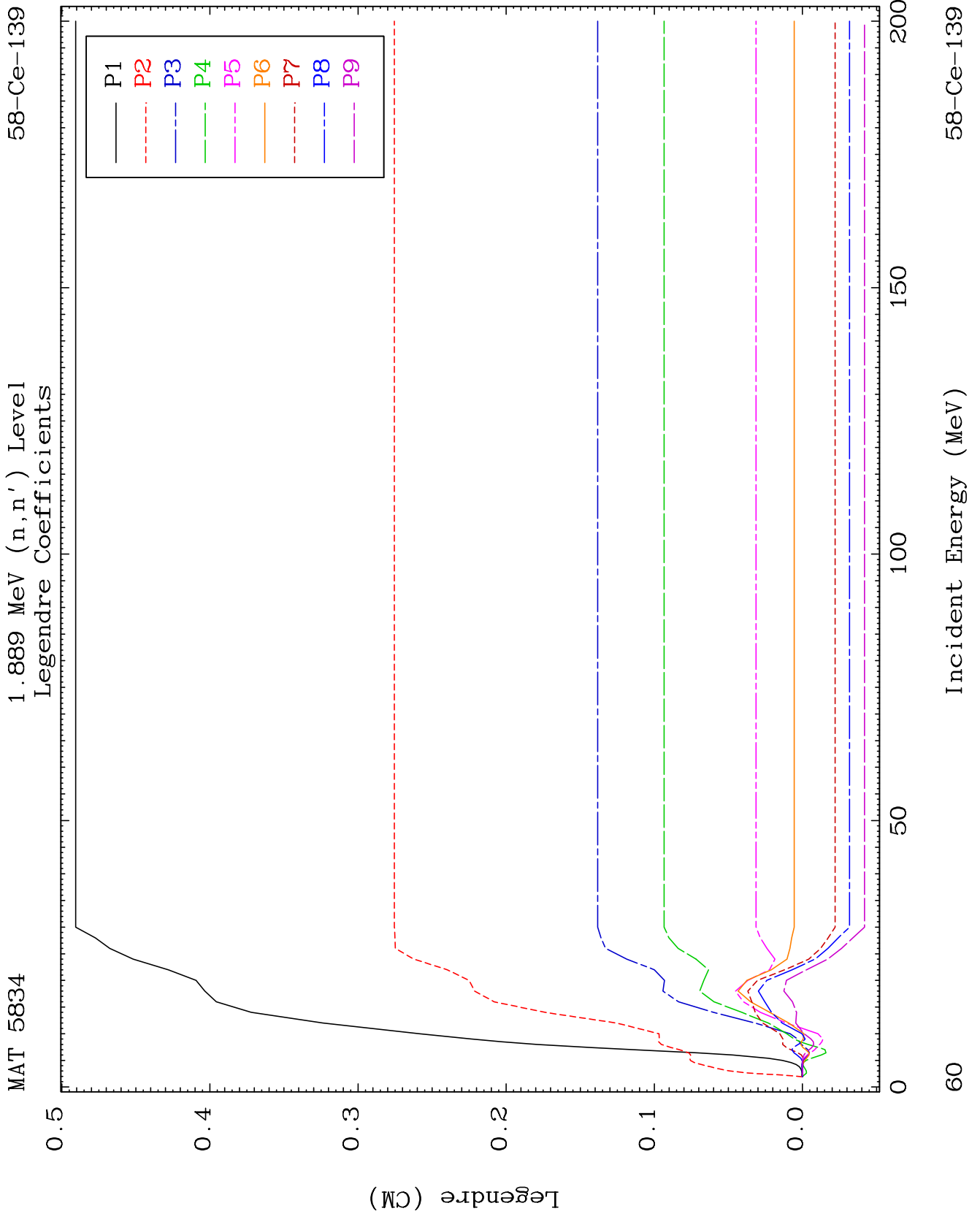
58-Ce-139



59

Incident Energy (MeV)

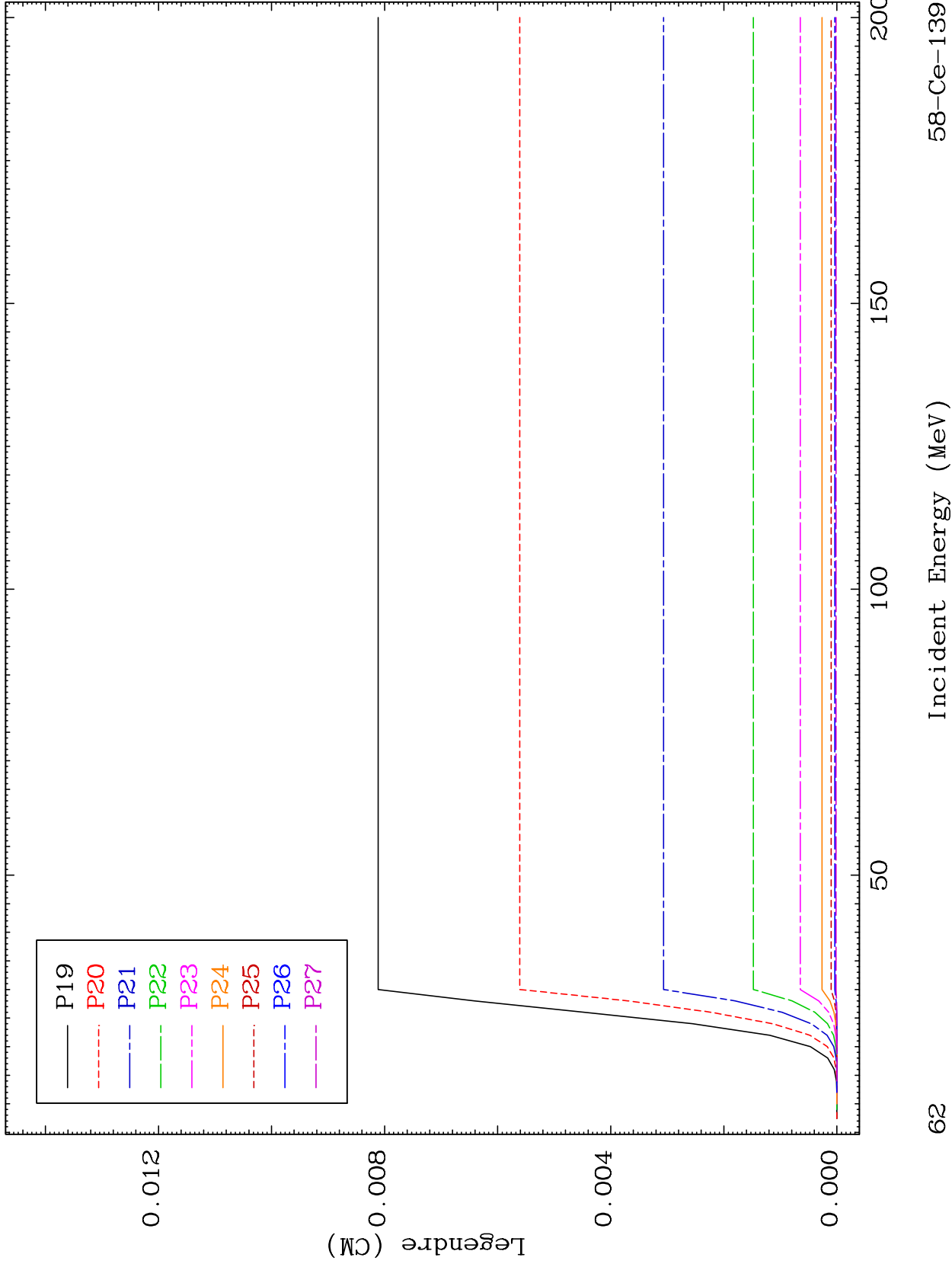
58-Ce-139



MAT 5834

1.889 MeV (n,n') Level
Legendre Coefficients

58-Ce-139



62

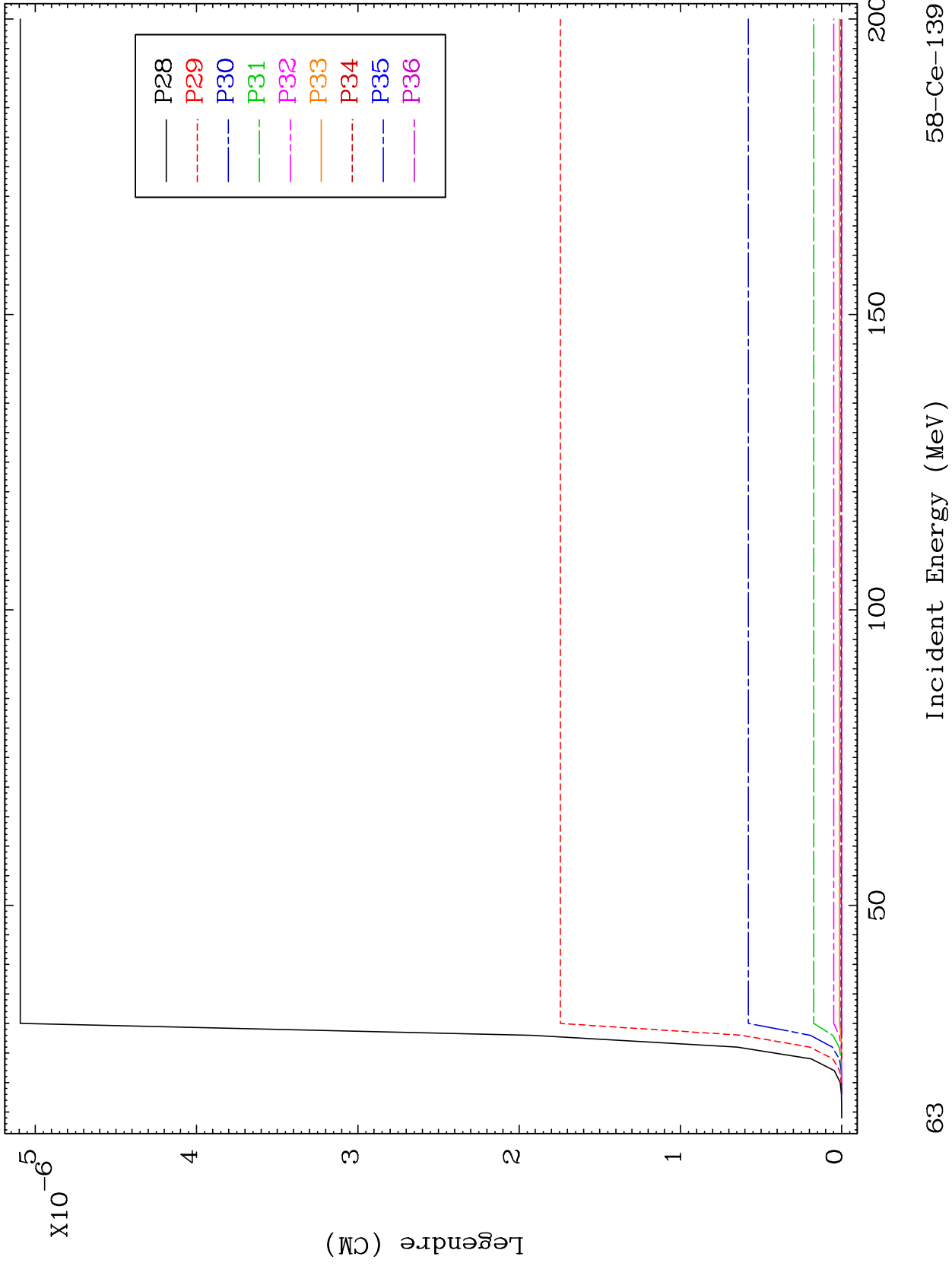
Incident Energy (MeV)

58-Ce-139

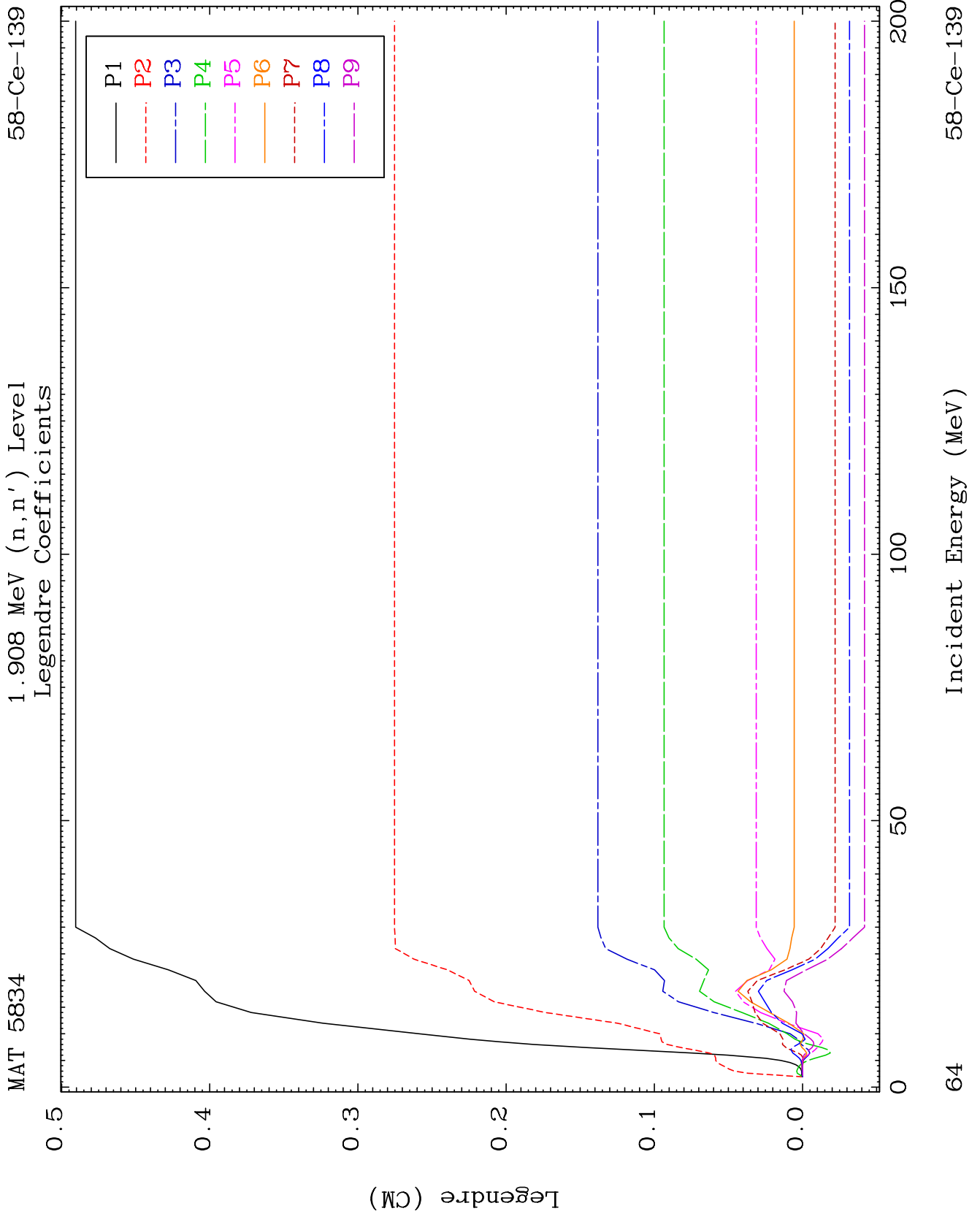
MAT 5834

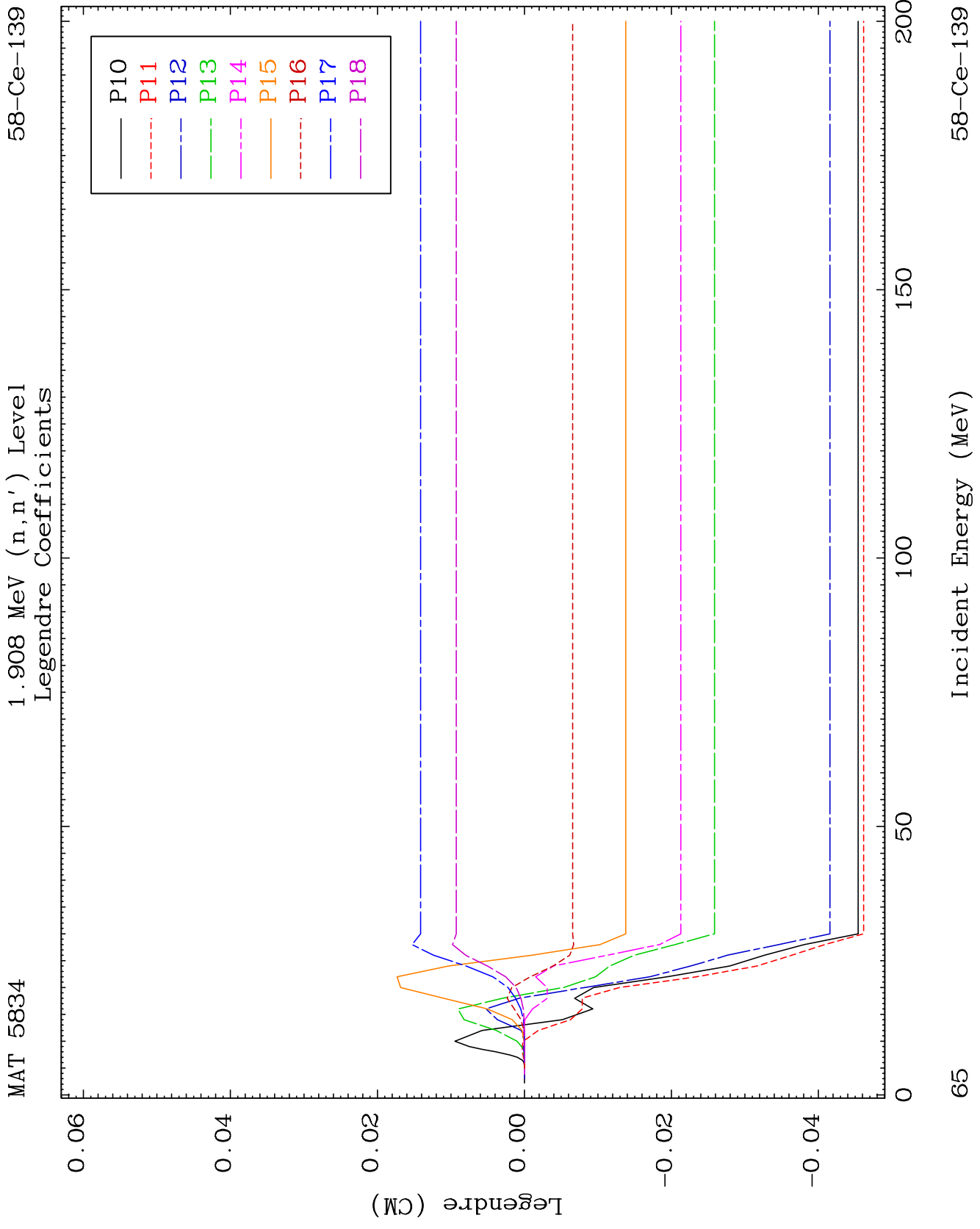
1.889 MeV (n, n') Level
Legendre Coefficients

58-Ce-139



63

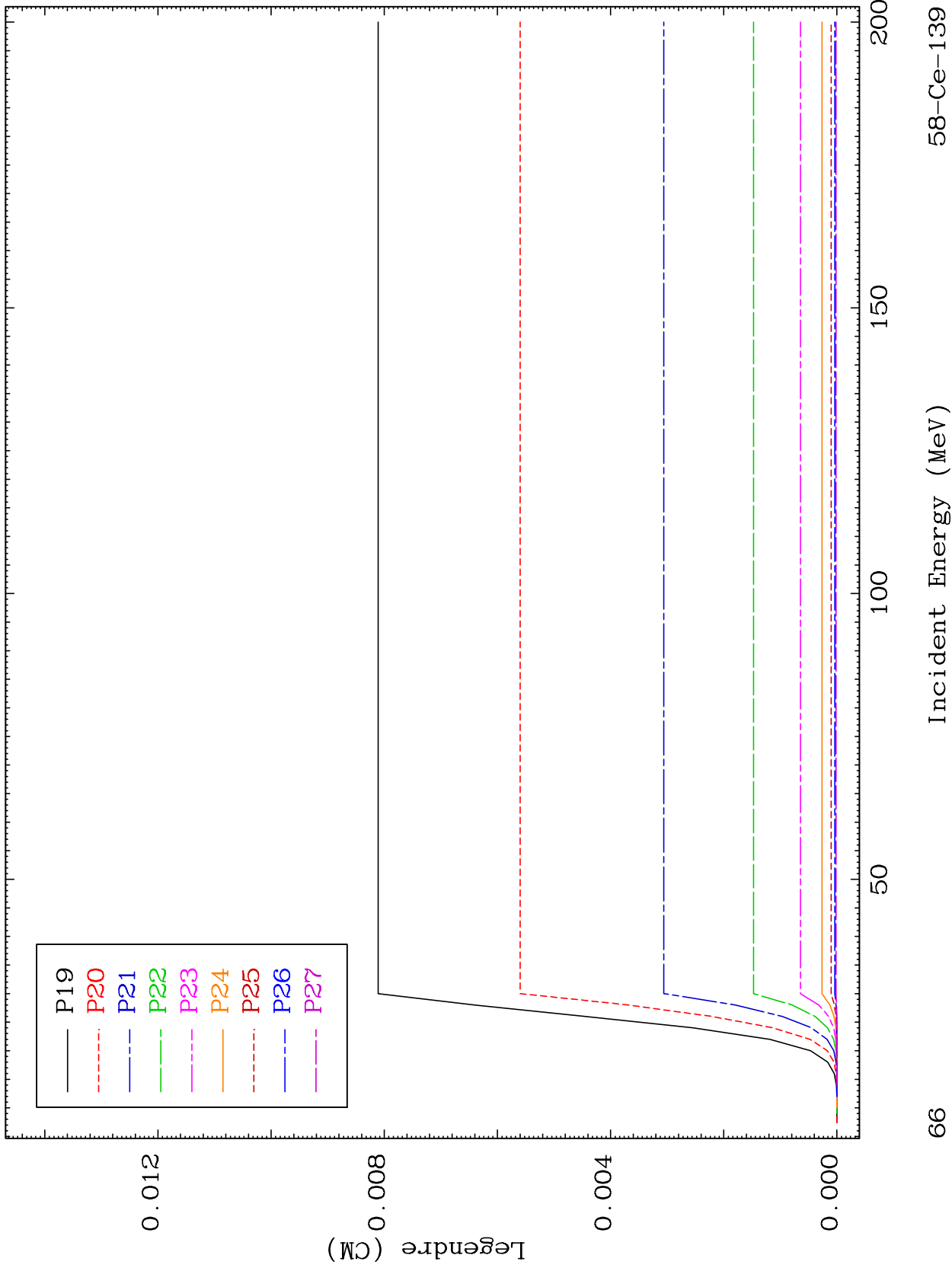




MAT 5834

1.908 MeV (n,n') Level
Legendre Coefficients

58-Ce-139



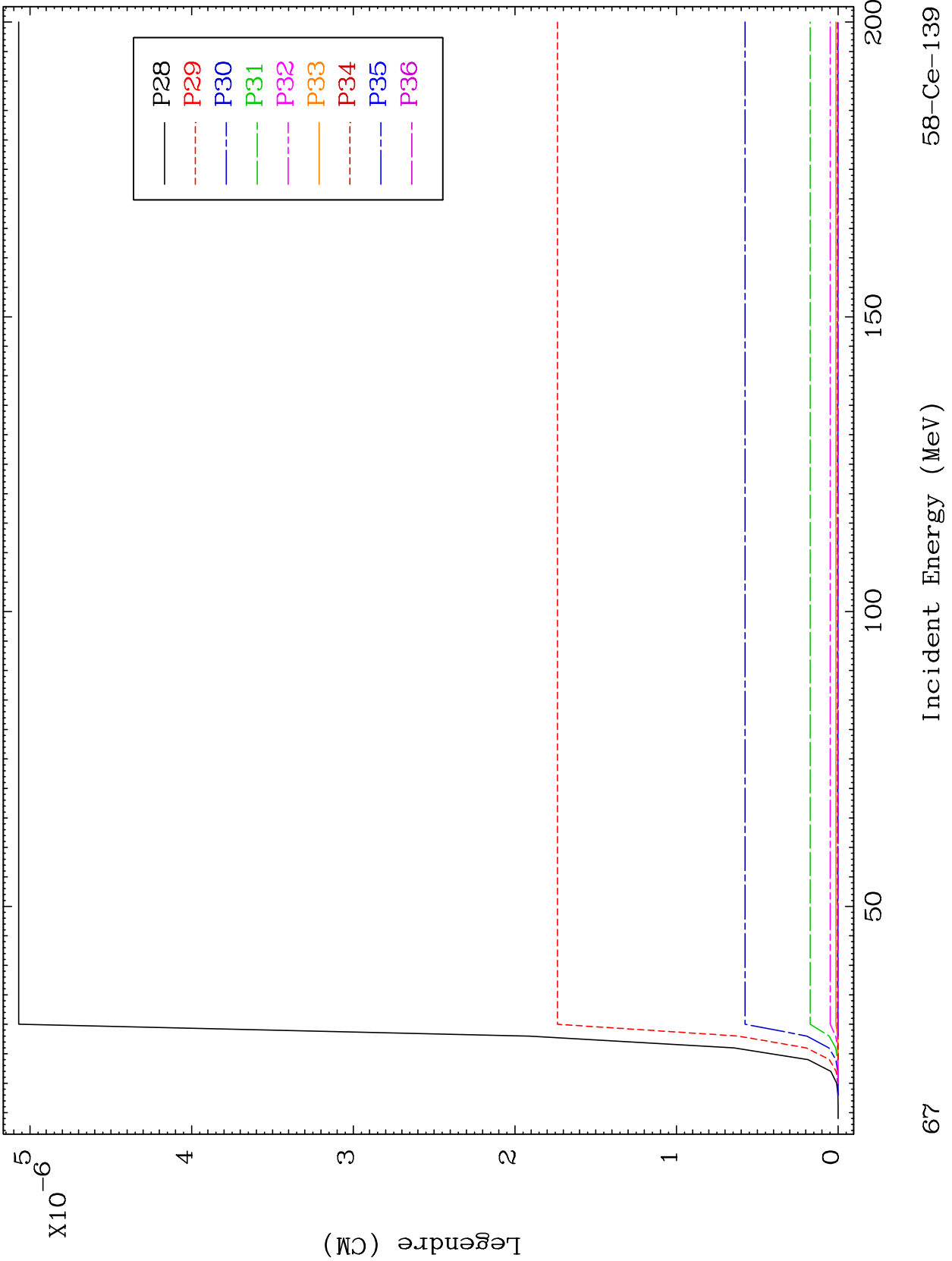
66

58-Ce-139

MAT 5834

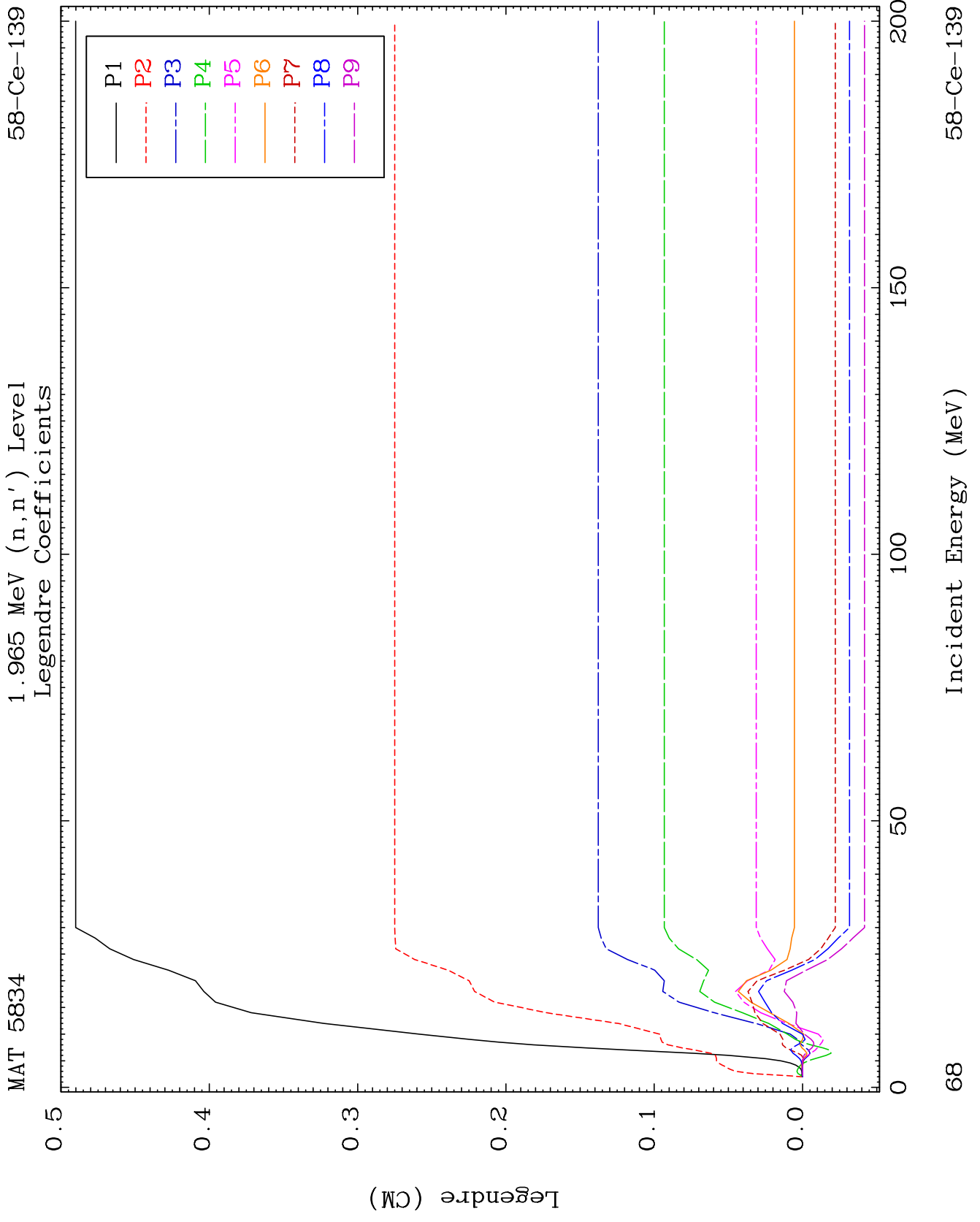
1.908 MeV (n, n') Level
Legendre Coefficients

58-Ce-139



67

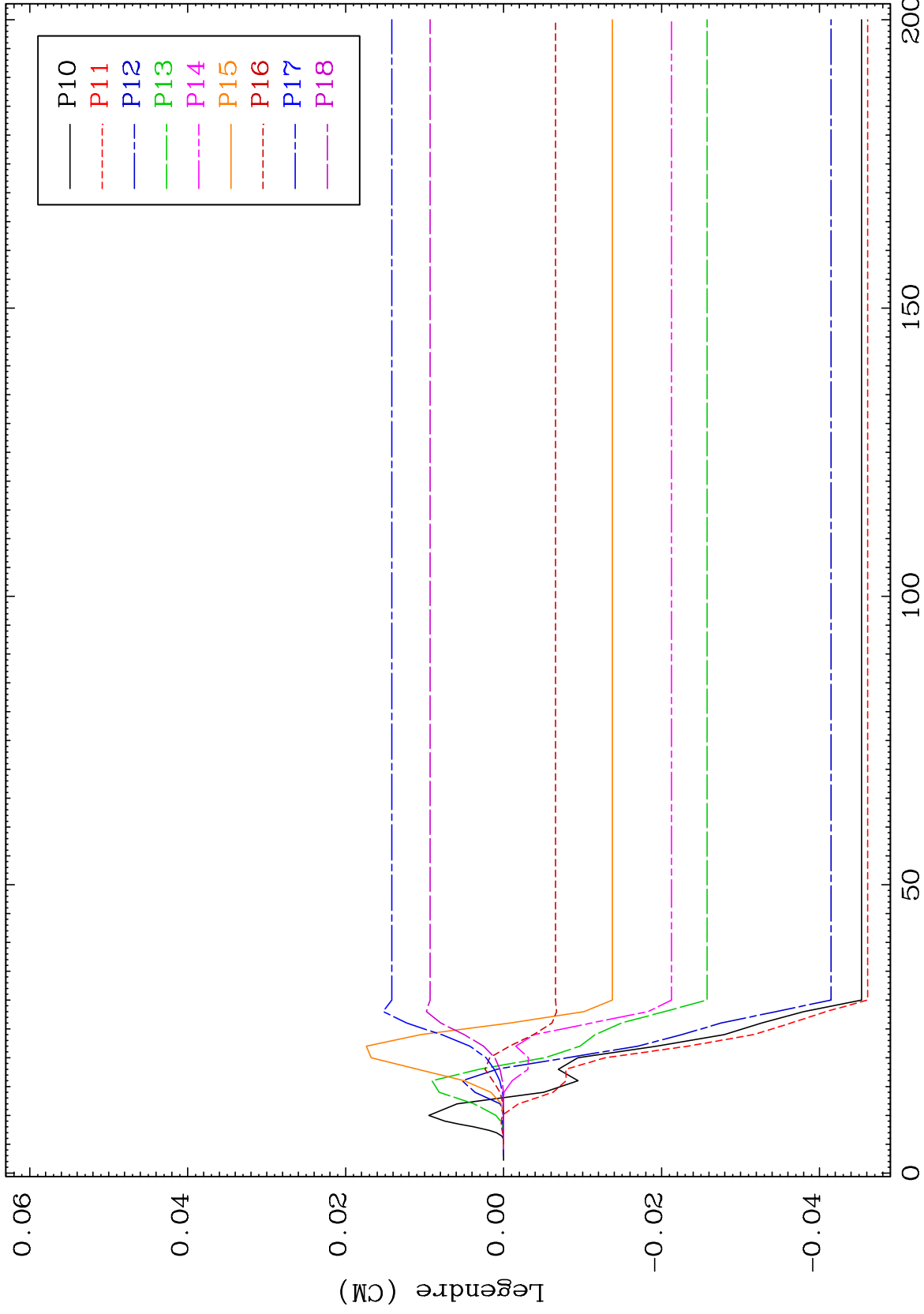
58-Ce-139



MAT 5834

1.965 MeV (n,n') Level
Legendre Coefficients

58-Ce-139



69

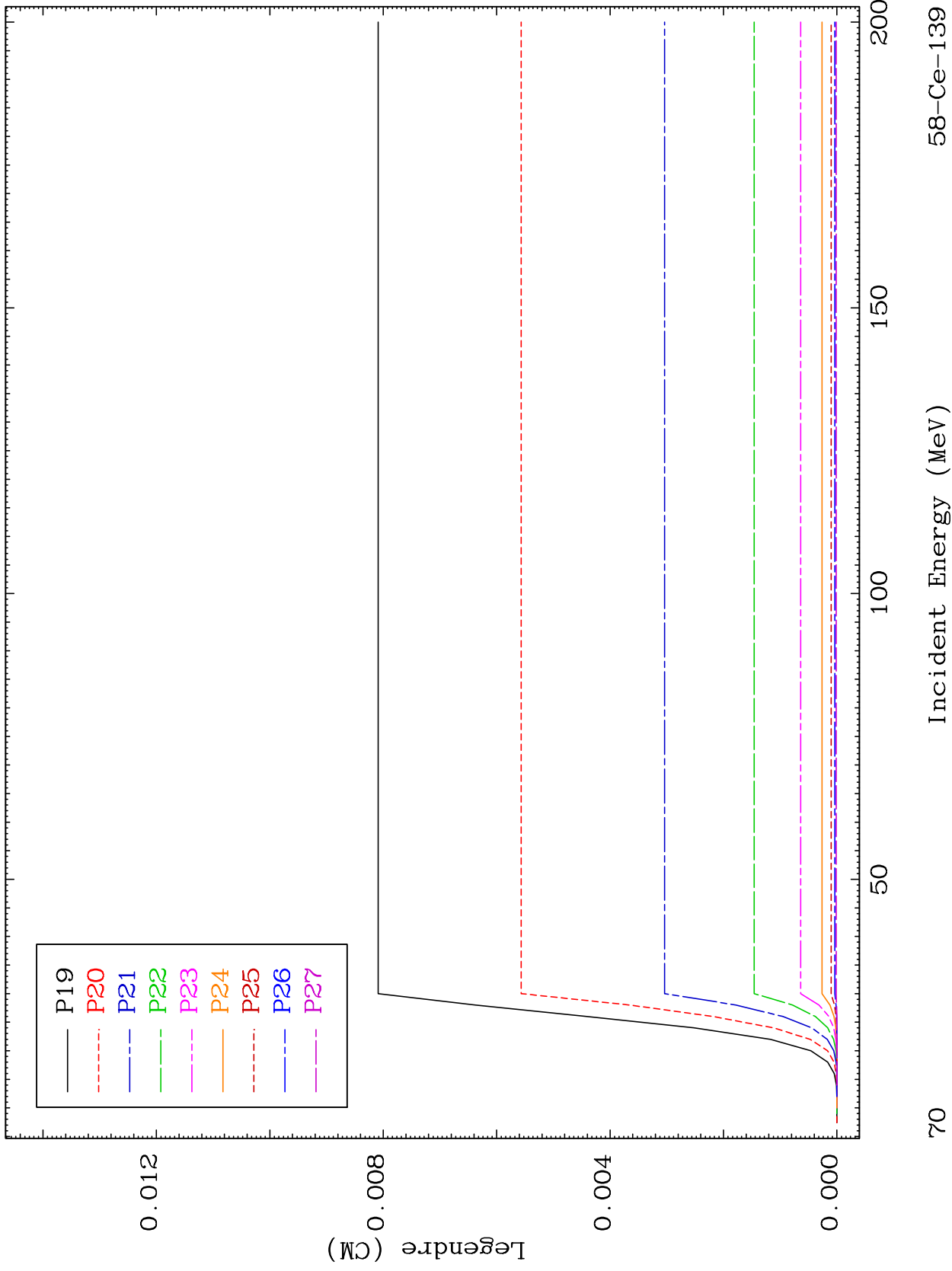
Incident Energy (MeV)

58-Ce-139

MAT 5834

1.965 MeV (n,n') Level
Legendre Coefficients

58-Ce-139



70

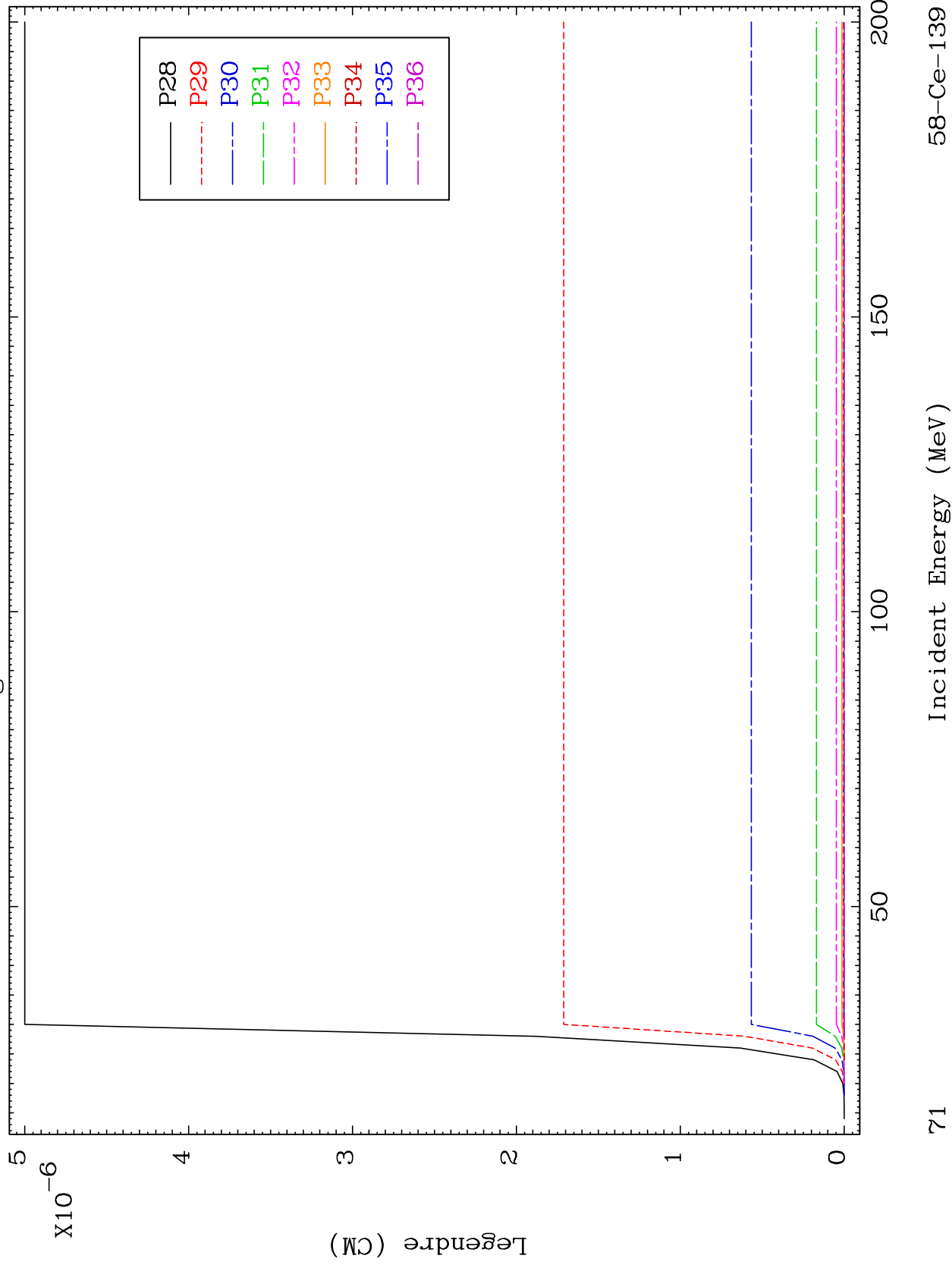
Incident Energy (MeV)

58-Ce-139

MAT 5834

1.965 MeV (n,n') Level
Legendre Coefficients

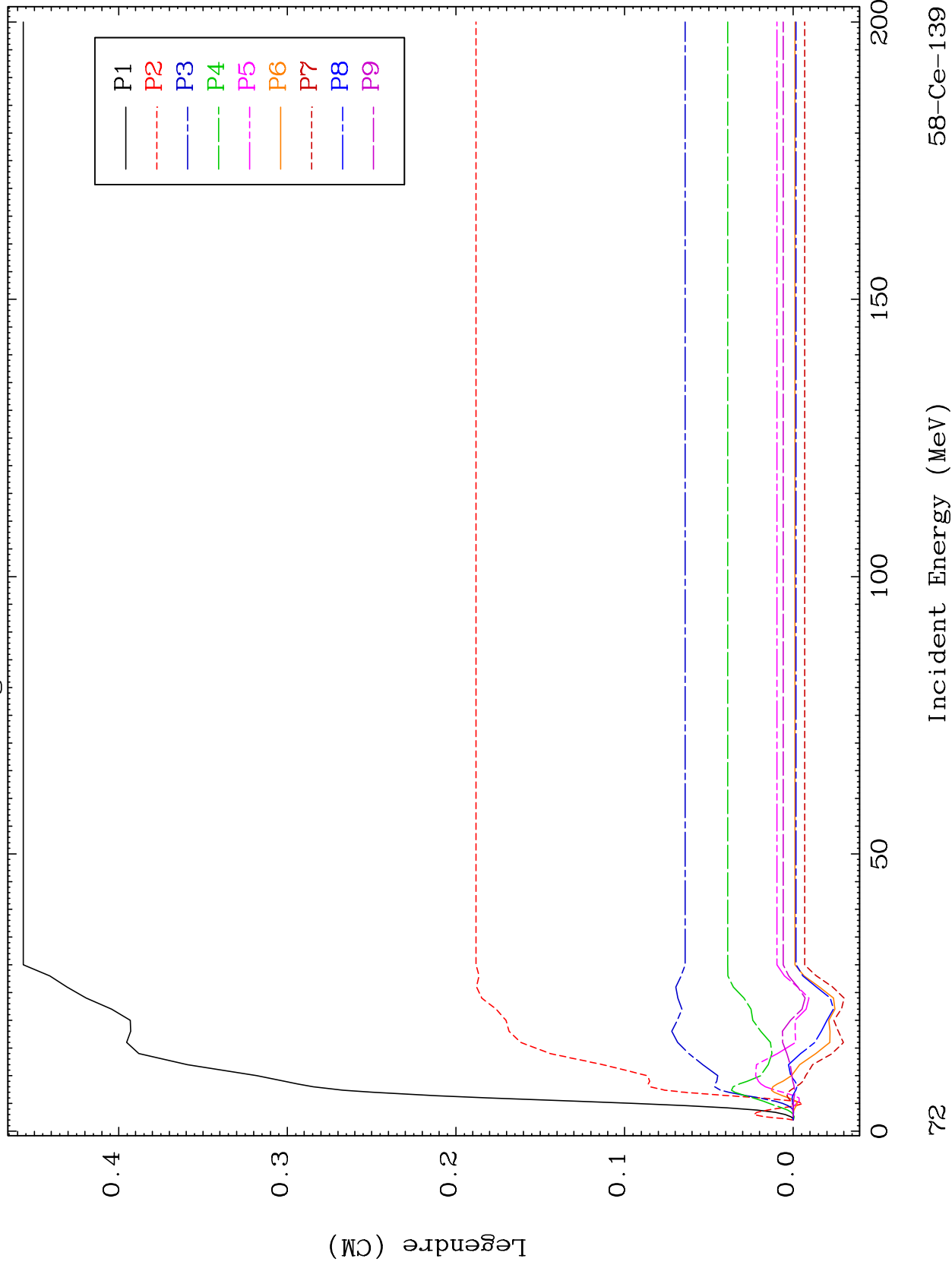
58-Ce-139



MAT 5834

1.985 MeV (n,n') Level
Legendre Coefficients

58-Ce-139



58-Ce-139

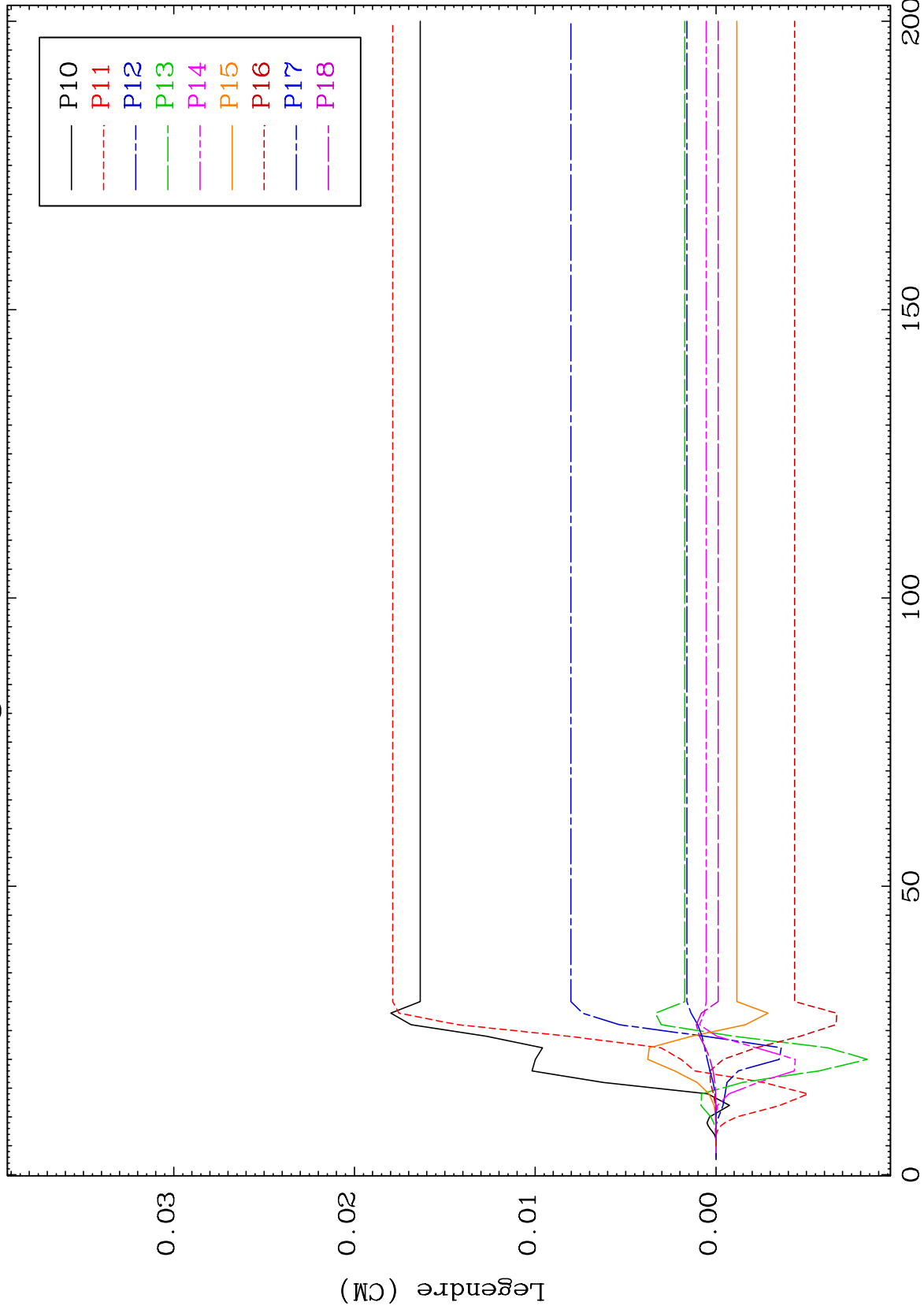
Incident Energy (MeV)

72

MAT 5834

1.985 MeV (n,n') Level
Legendre Coefficients

58-Ce-139



73

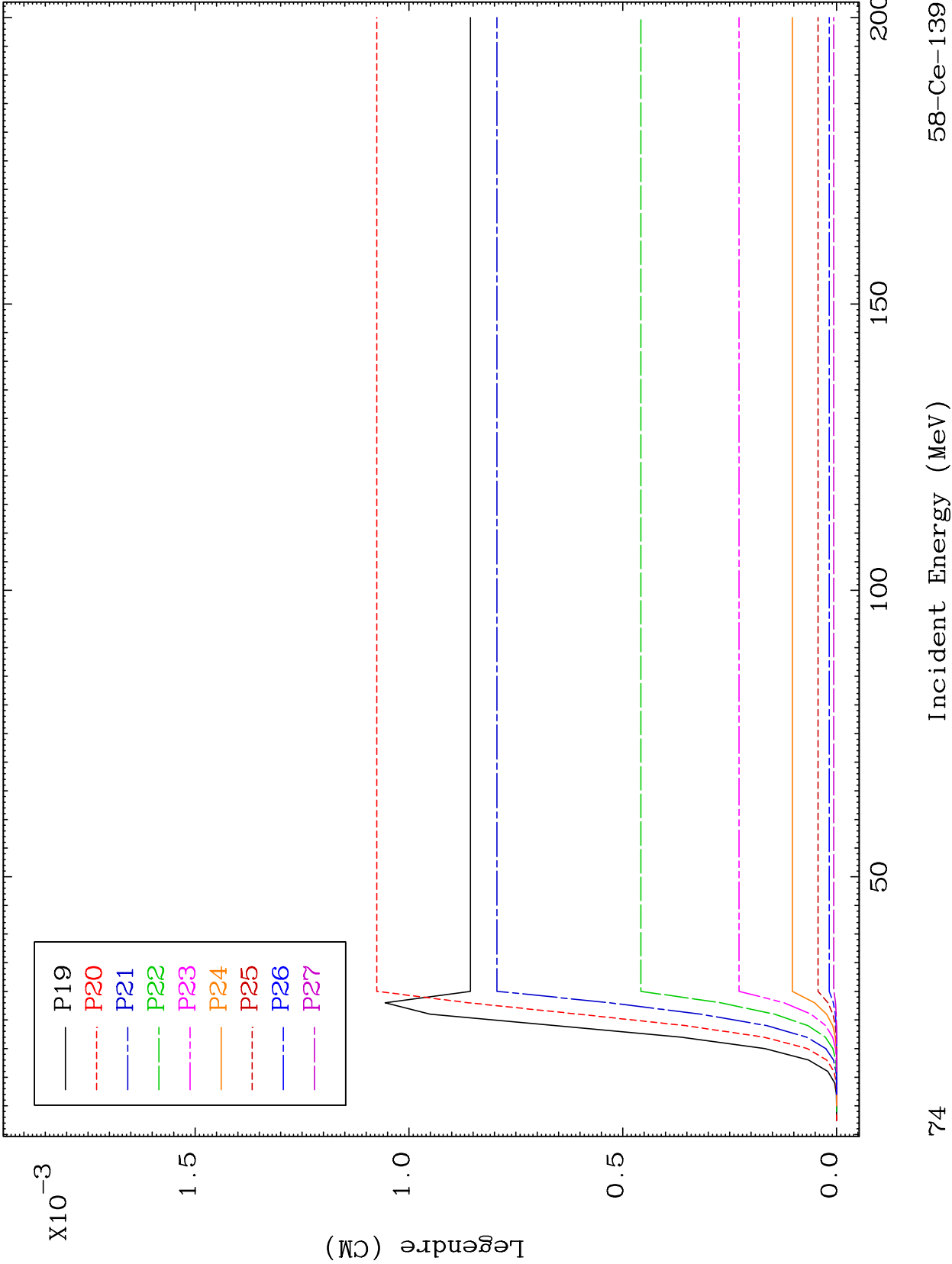
Incident Energy (MeV)

58-Ce-139

MAT 5834

1.985 MeV (n,n') Level
Legendre Coefficients

58-Ce-139



74

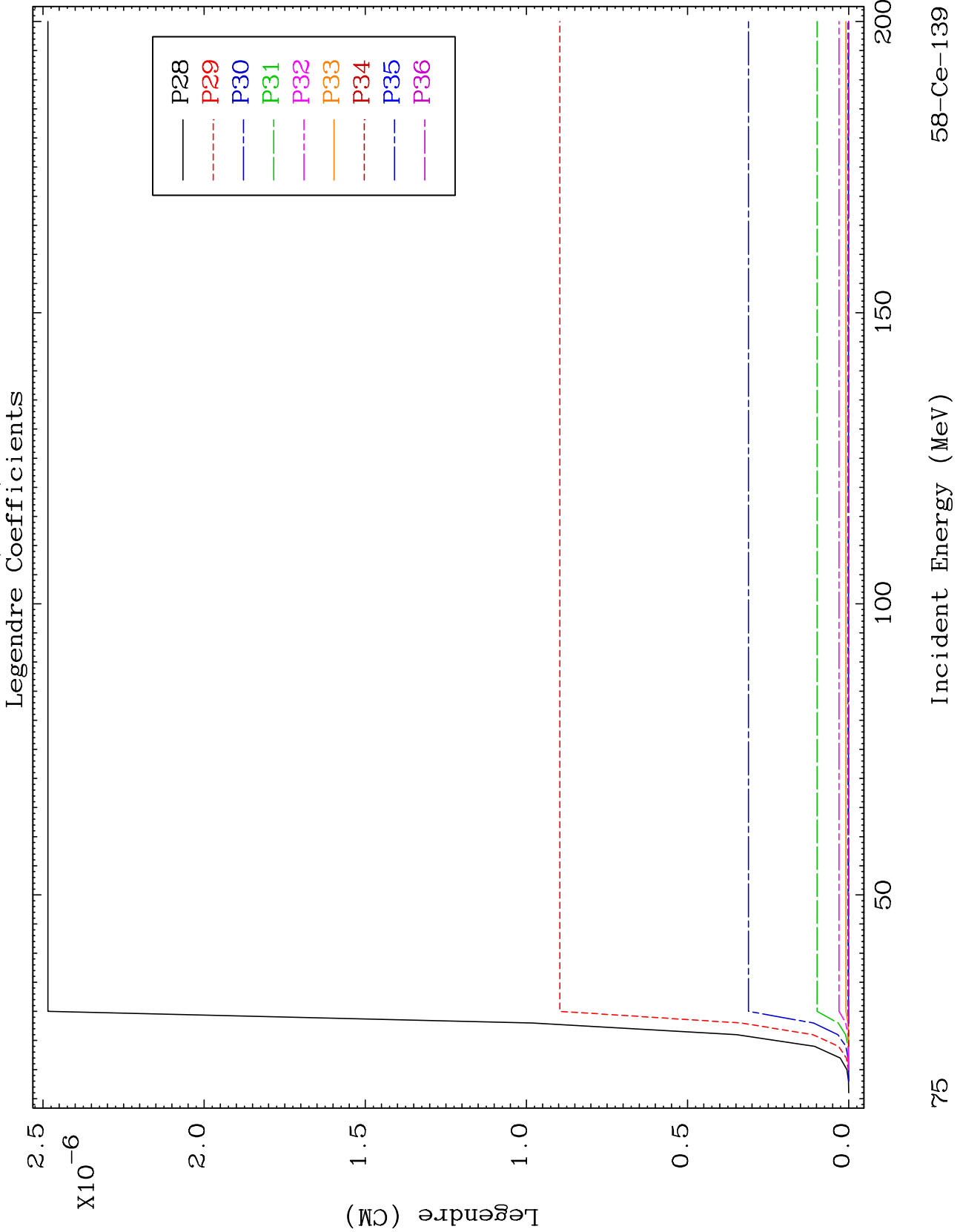
Incident Energy (MeV)

58-Ce-139

MAT 5834

1.985 MeV (n, n') Level

58-Ce-139



58-Ce-139

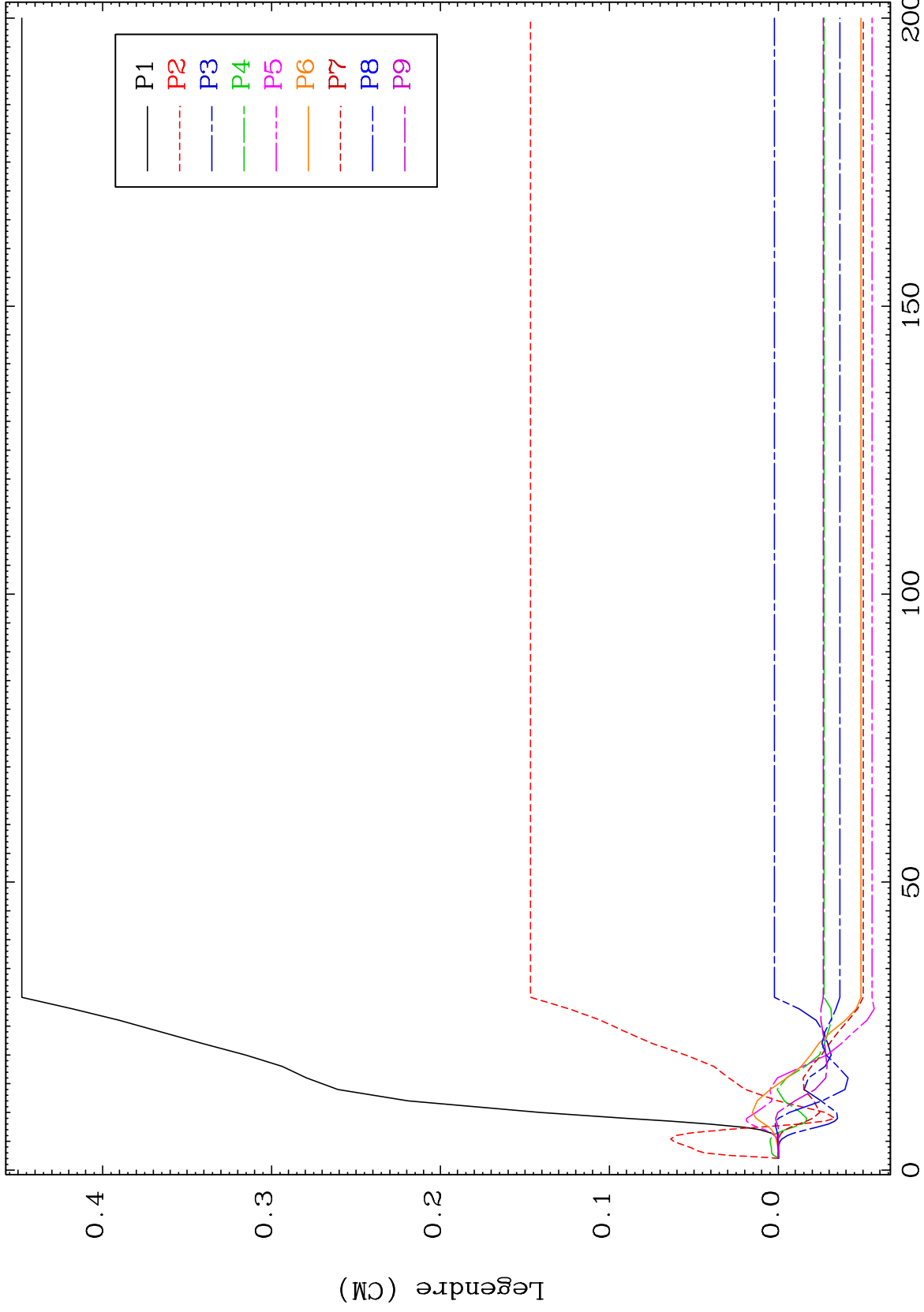
Incident Energy (MeV)

75

MAT 5834

2.016 MeV (n,n') Level
Legendre Coefficients

58-Ce-139



76

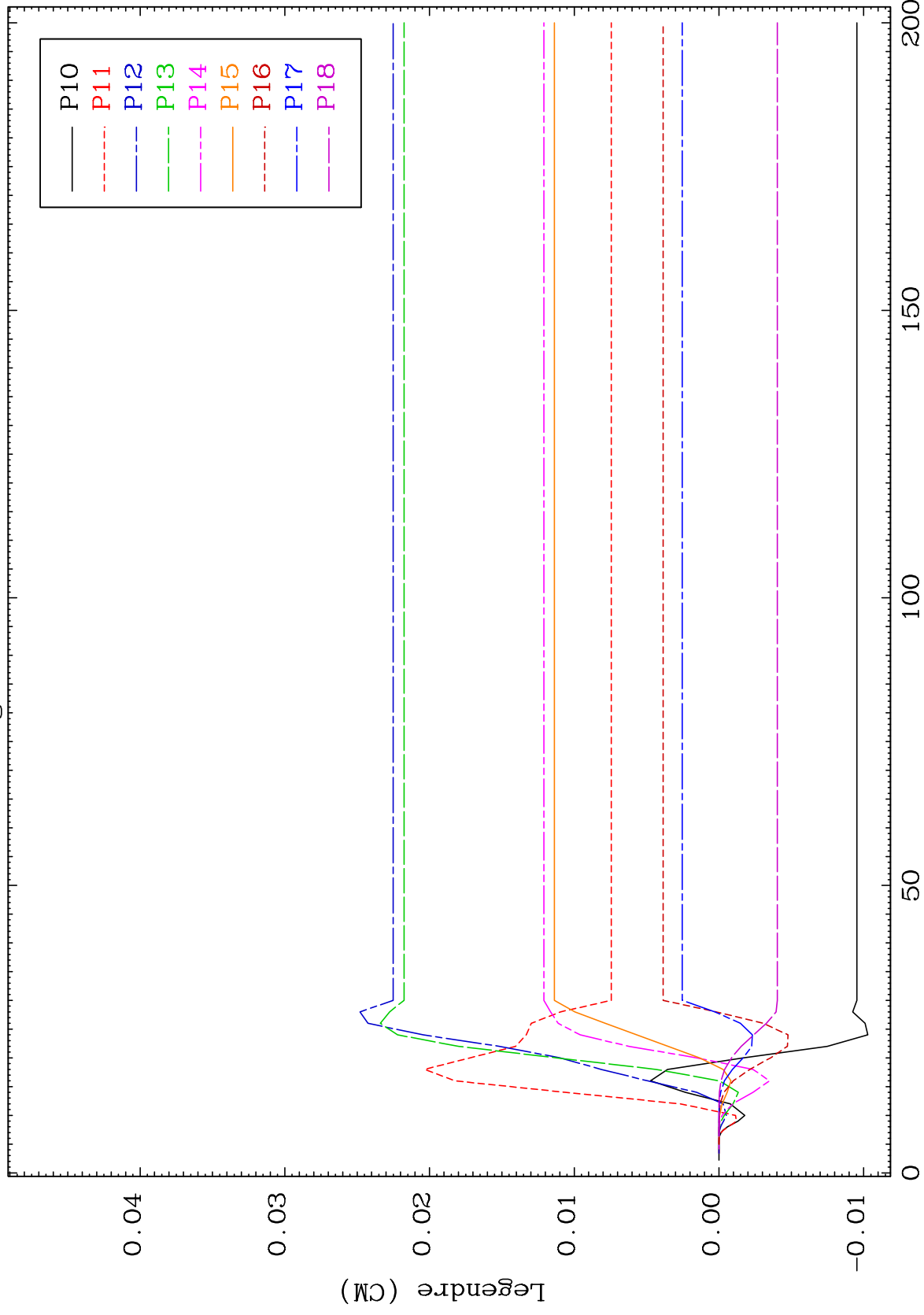
Incident Energy (MeV)

58-Ce-139

MAT 5834

2.016 MeV (n,n') Level
Legendre Coefficients

58-Ce-139



77

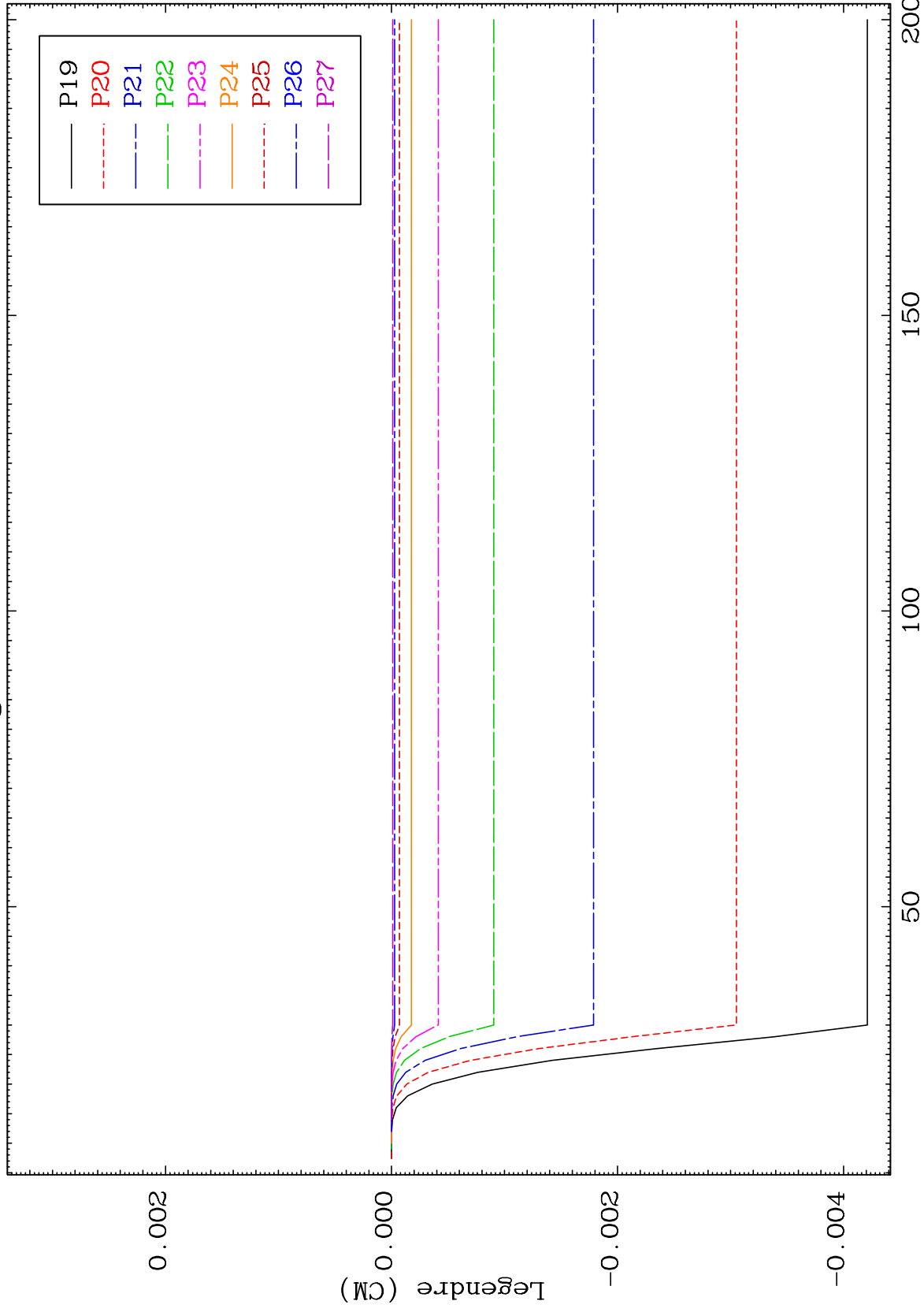
Incident Energy (MeV)

58-Ce-139

MAT 5834

2.016 MeV (n,n') Level
Legendre Coefficients

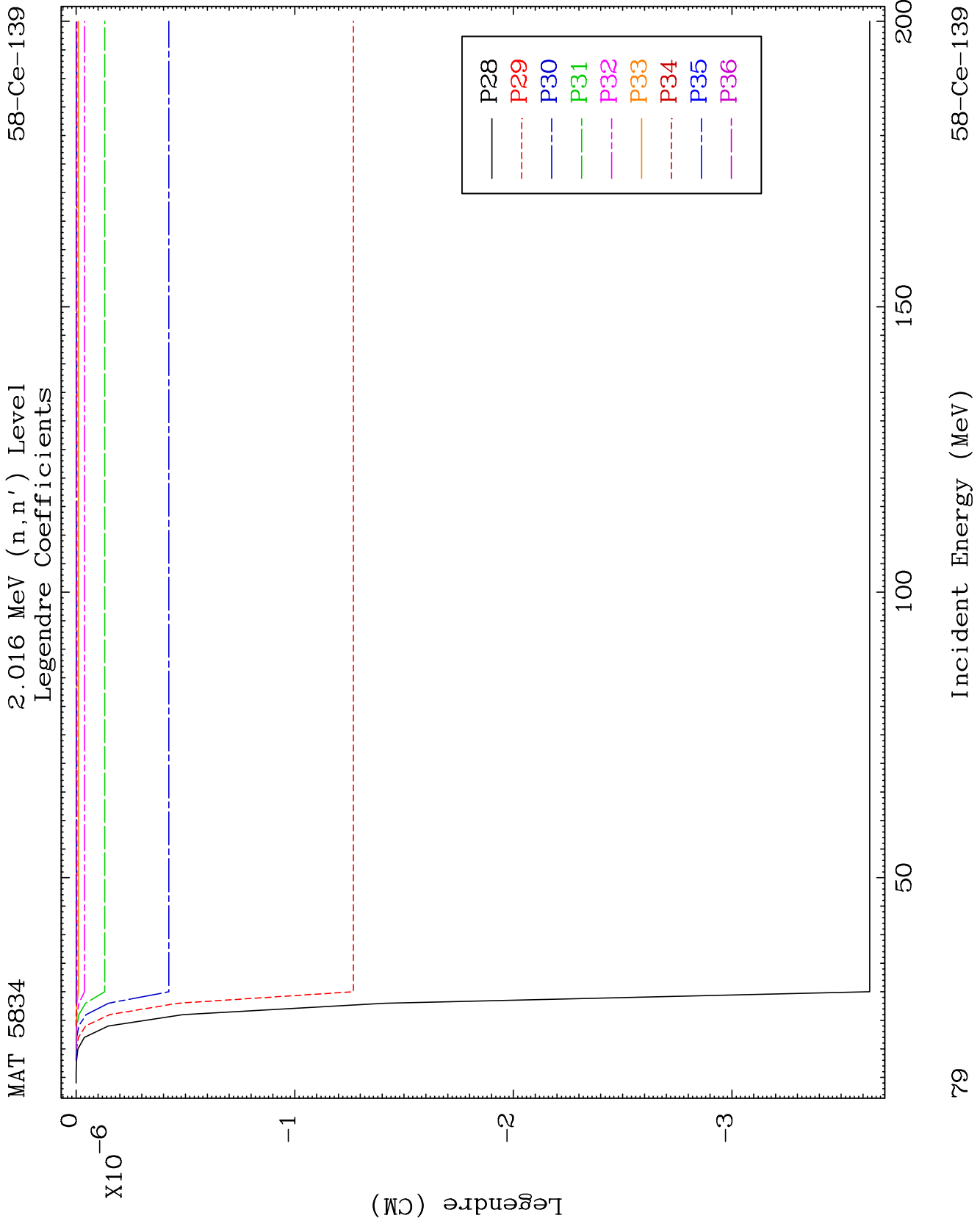
58-Ce-139



78

Incident Energy (MeV)

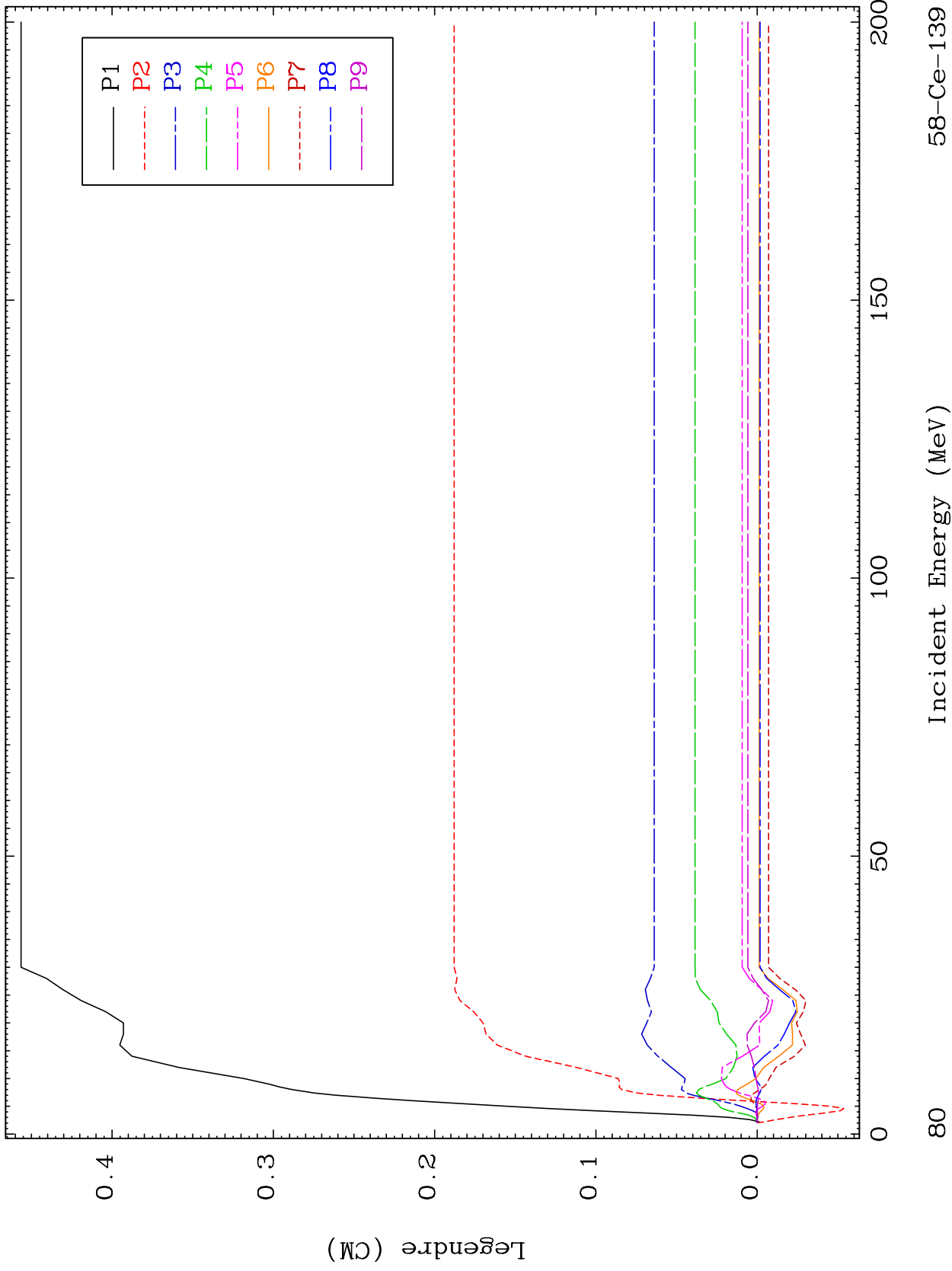
58-Ce-139



MAT 5834

2.029 MeV (n,n') Level
Legendre Coefficients

58-Ce-139

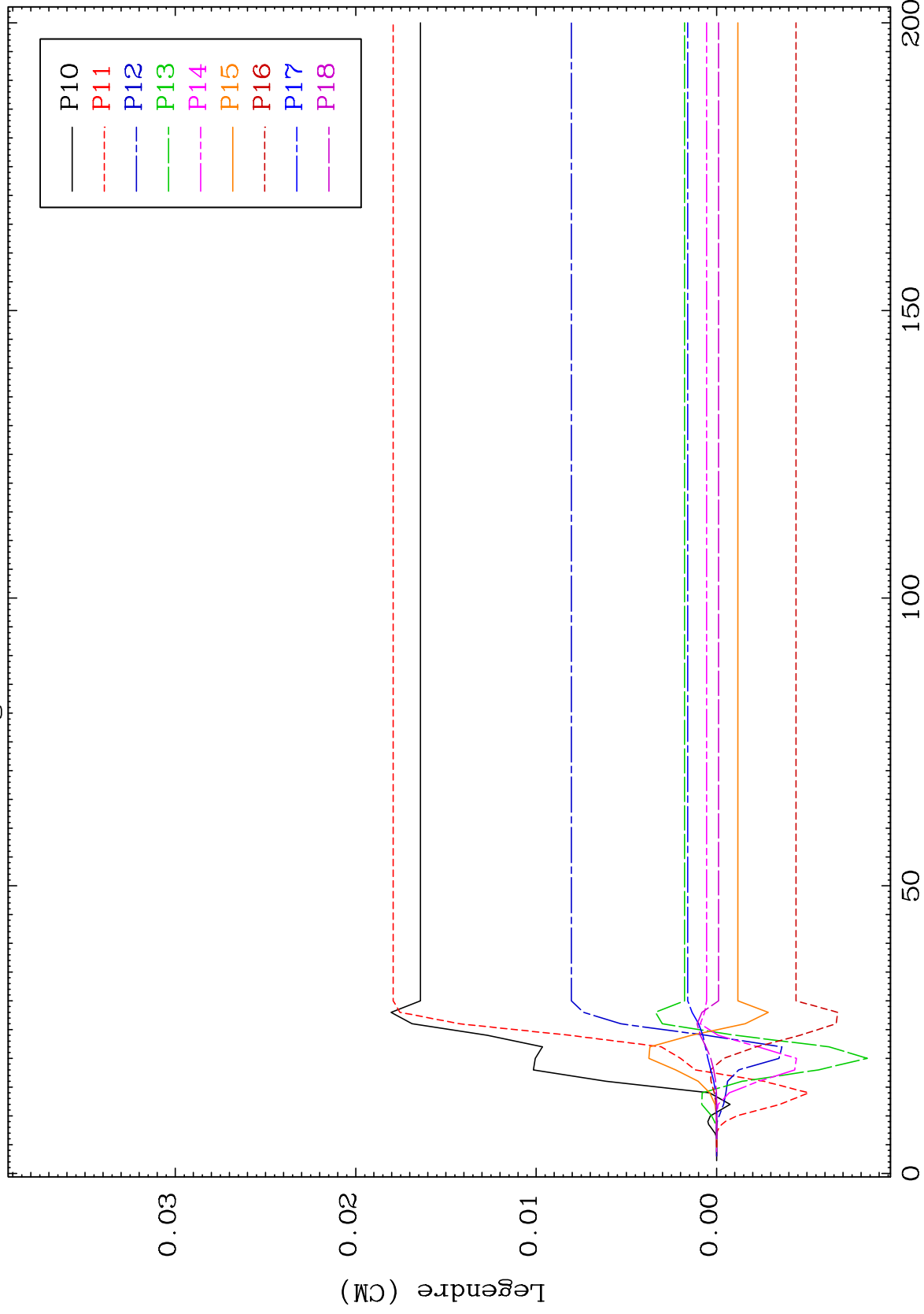


58-Ce-139

MAT 5834

2.029 MeV (n,n') Level
Legendre Coefficients

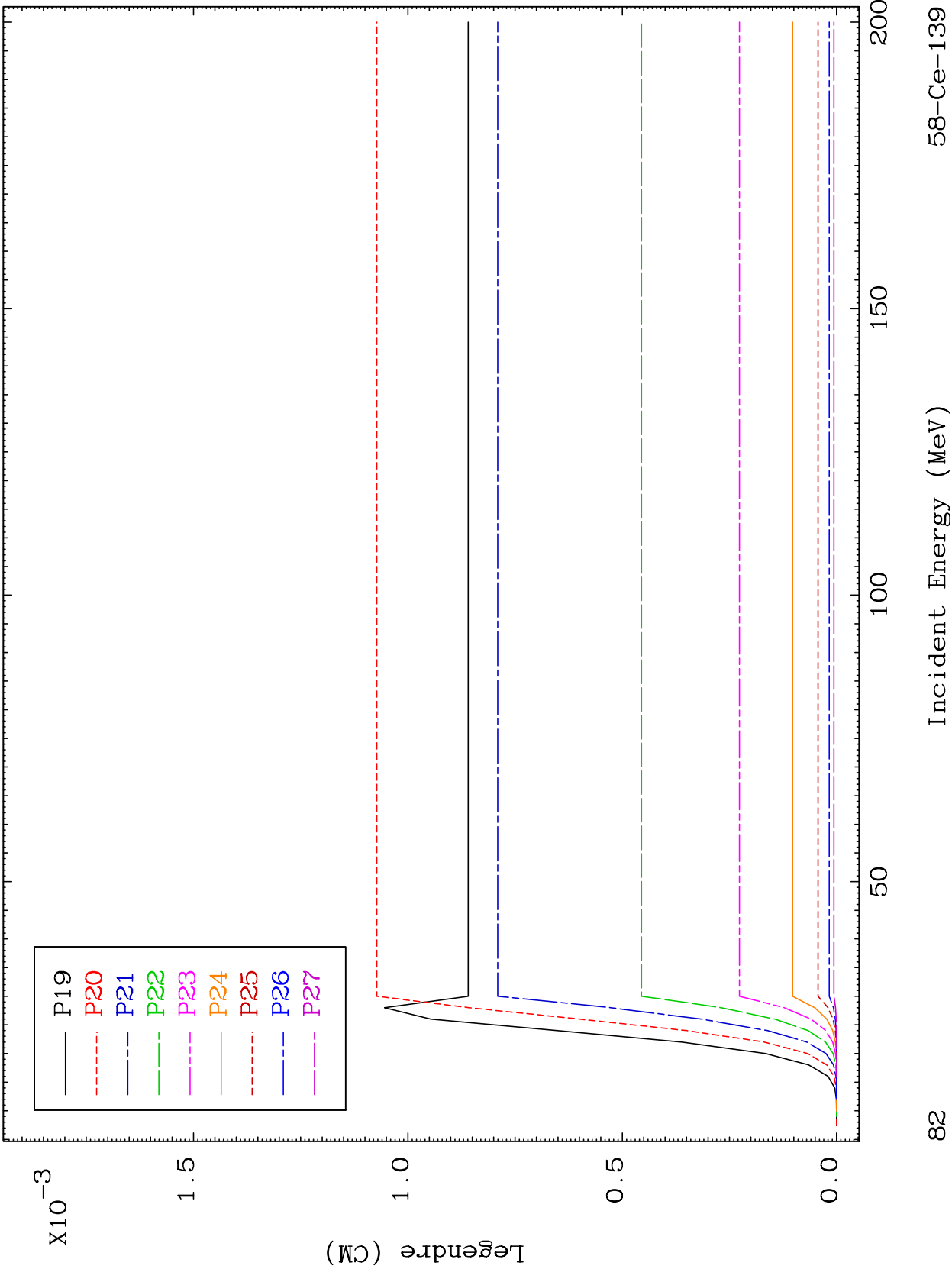
58-Ce-139

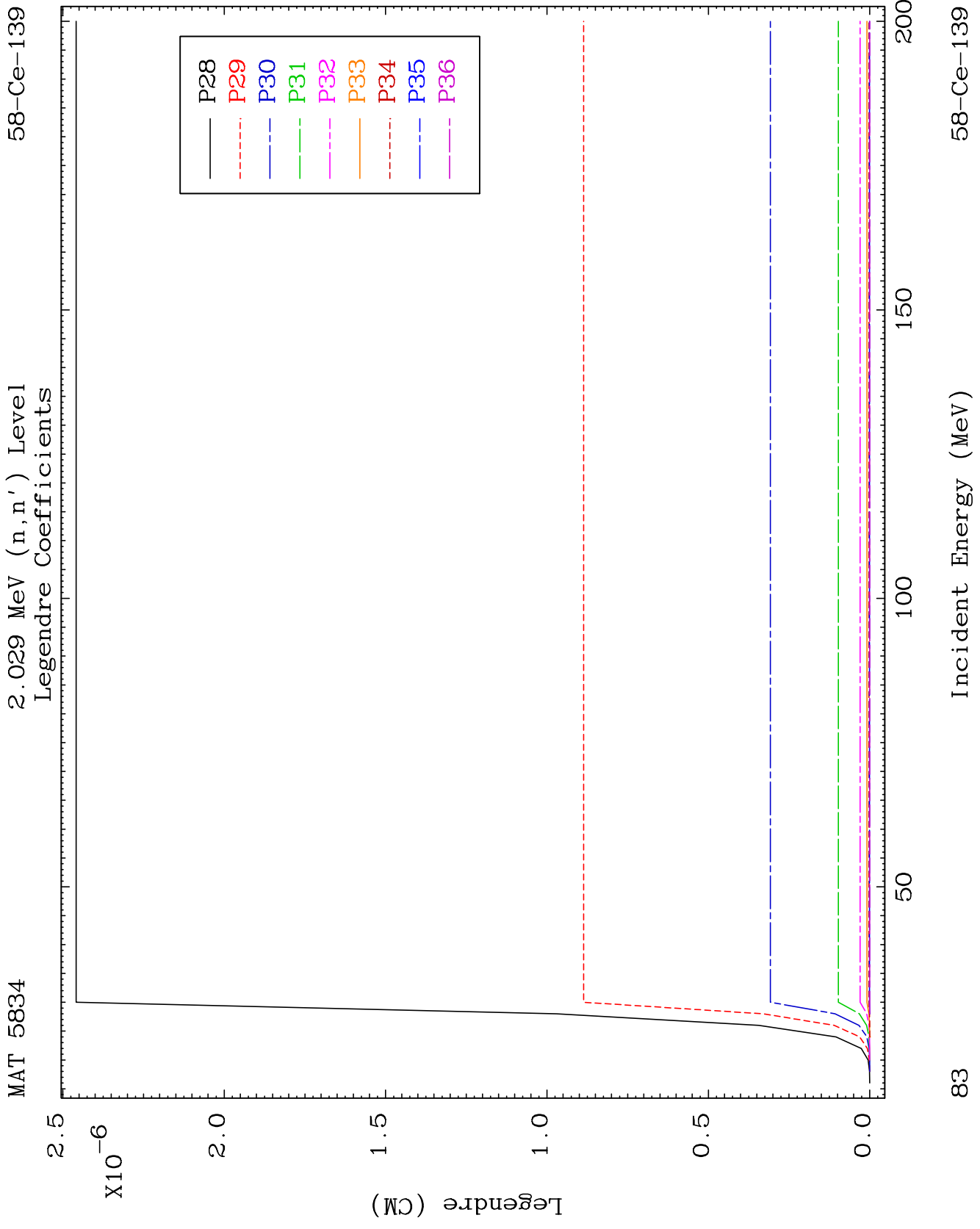


81

Incident Energy (MeV)

58-Ce-139

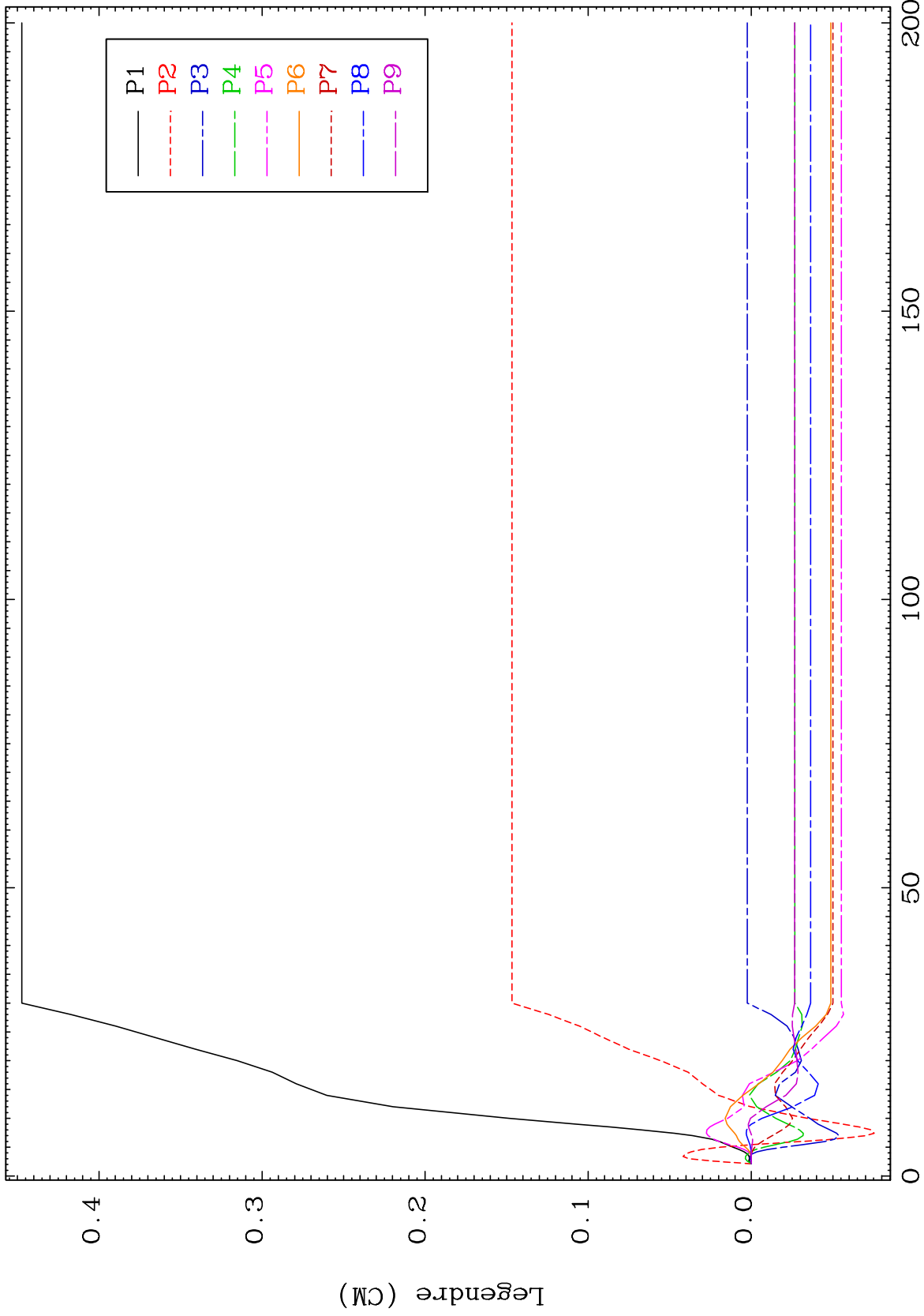




MAT 5834

2.090 MeV (n,n') Level
Legendre Coefficients

58-Ce-139



84

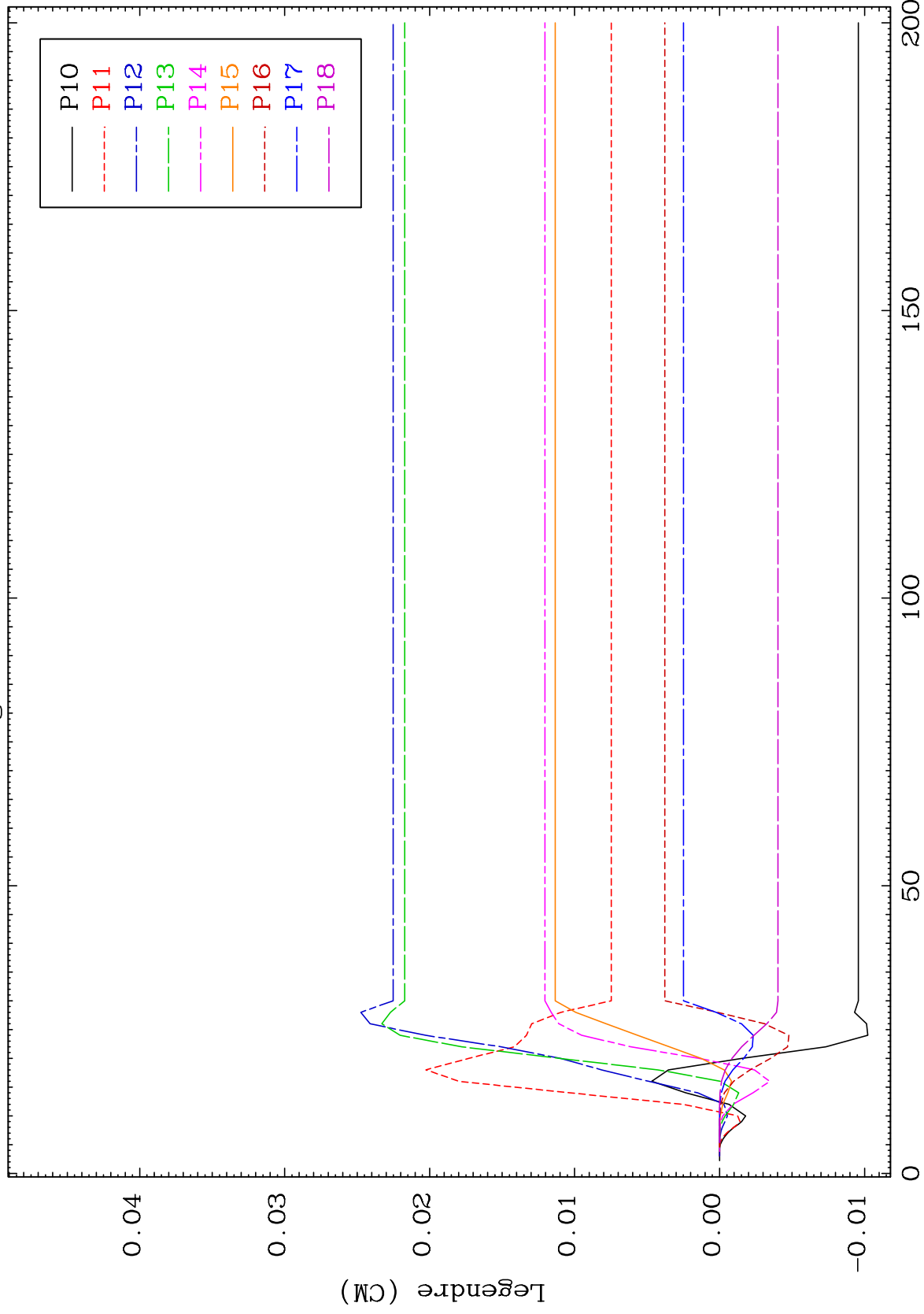
Incident Energy (MeV)

58-Ce-139

MAT 5834

2.090 MeV (n,n') Level
Legendre Coefficients

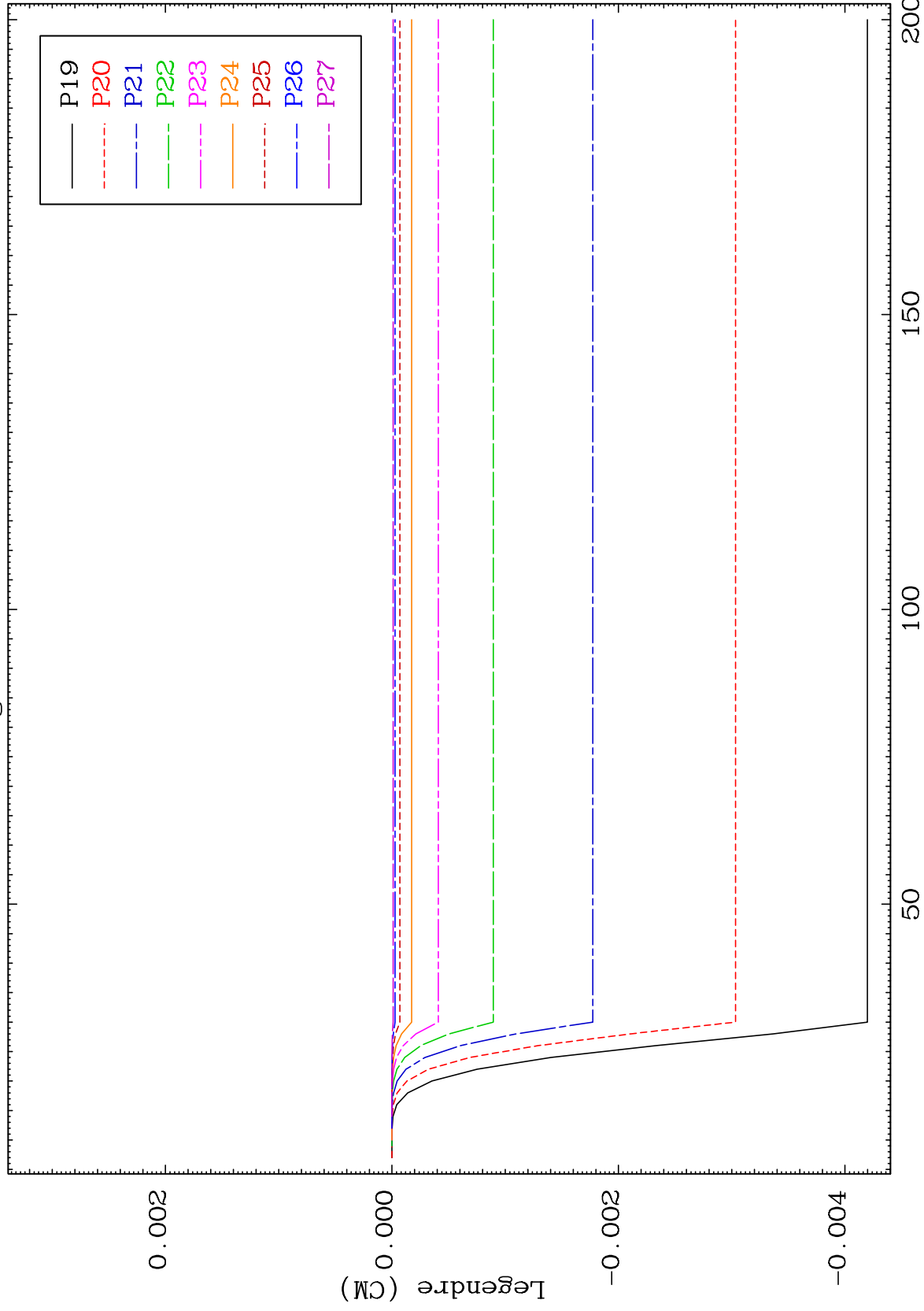
58-Ce-139

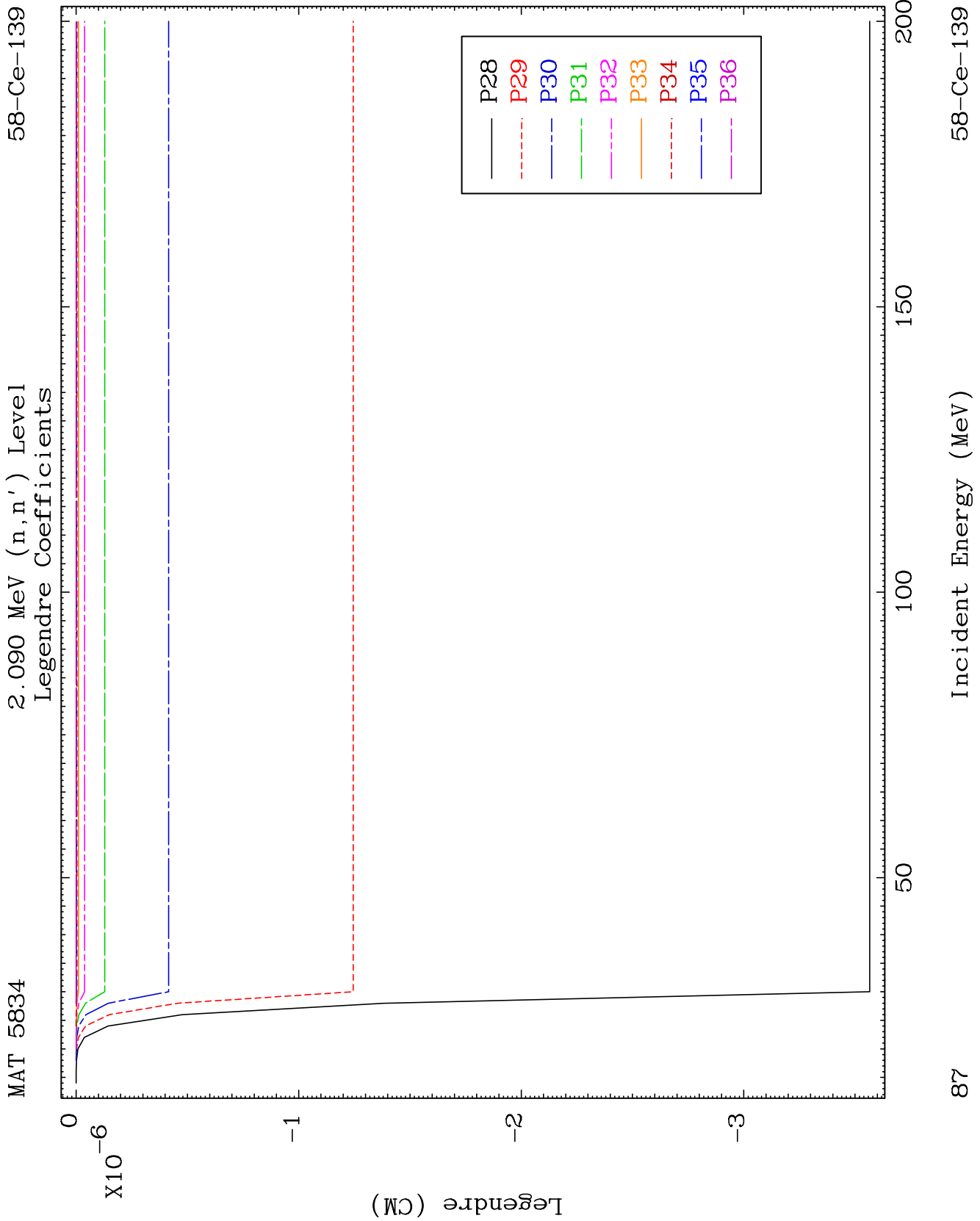


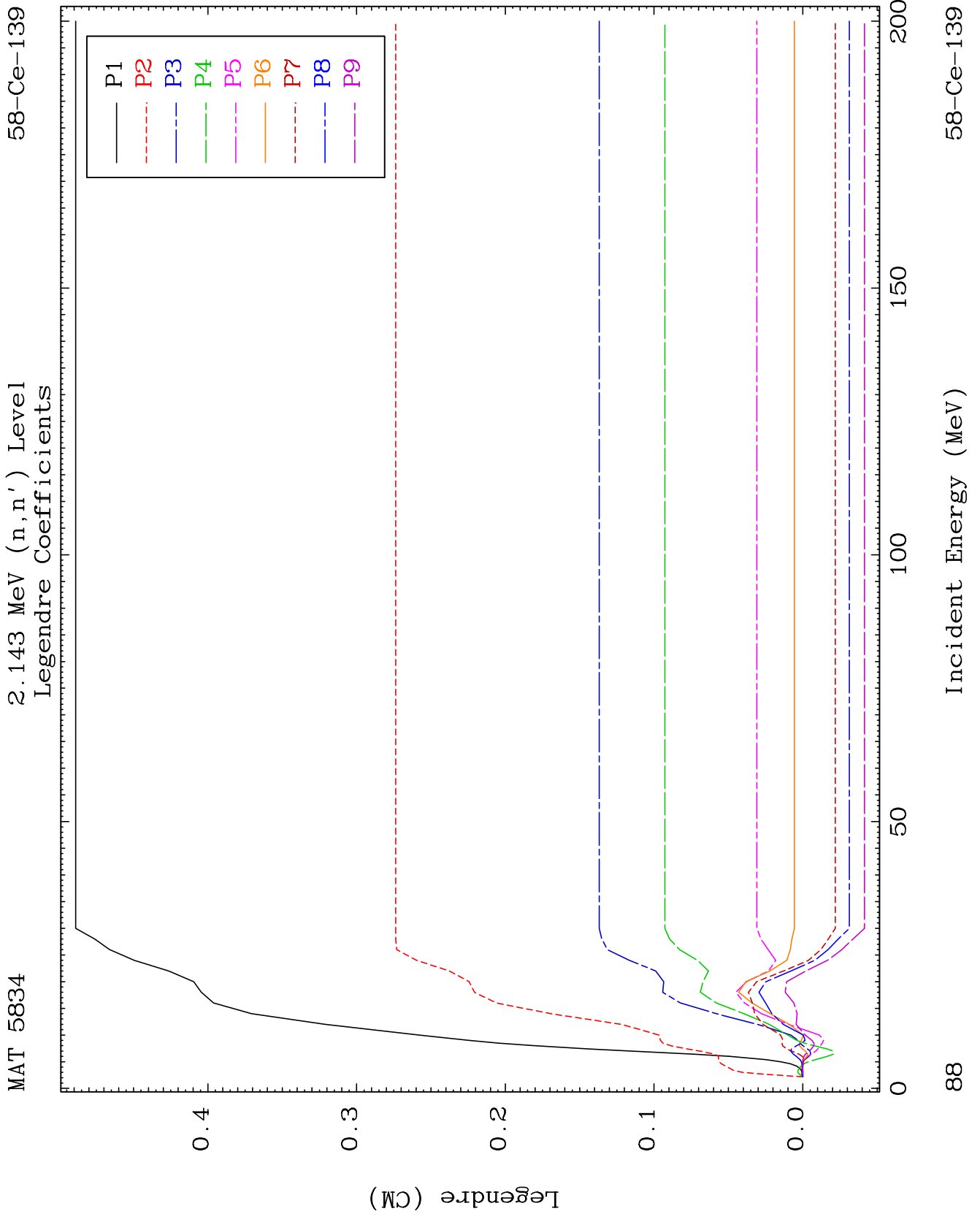
85

Incident Energy (MeV)

58-Ce-139



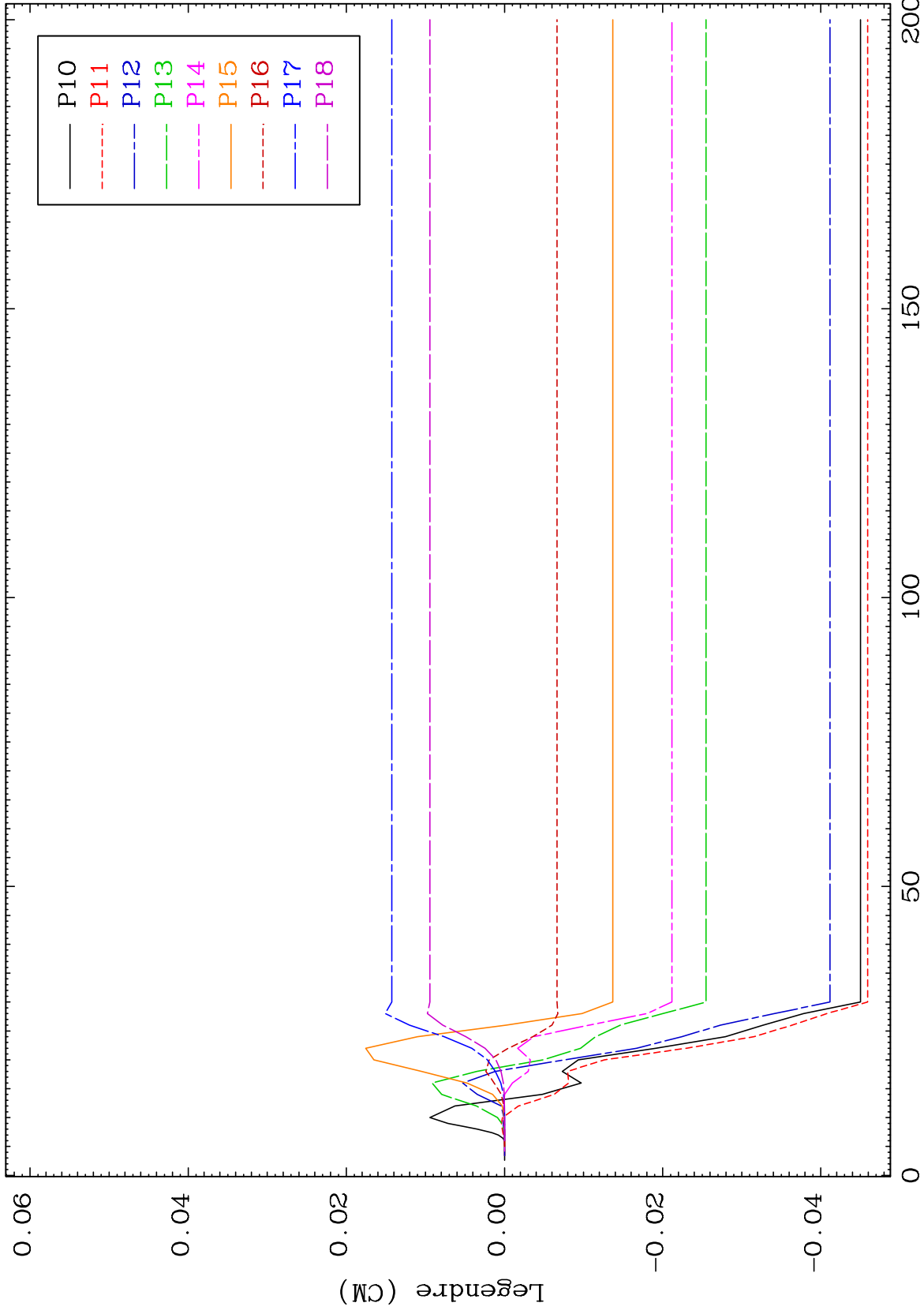




MAT 5834

2.143 MeV (n,n') Level
Legendre Coefficients

58-Ce-139



89

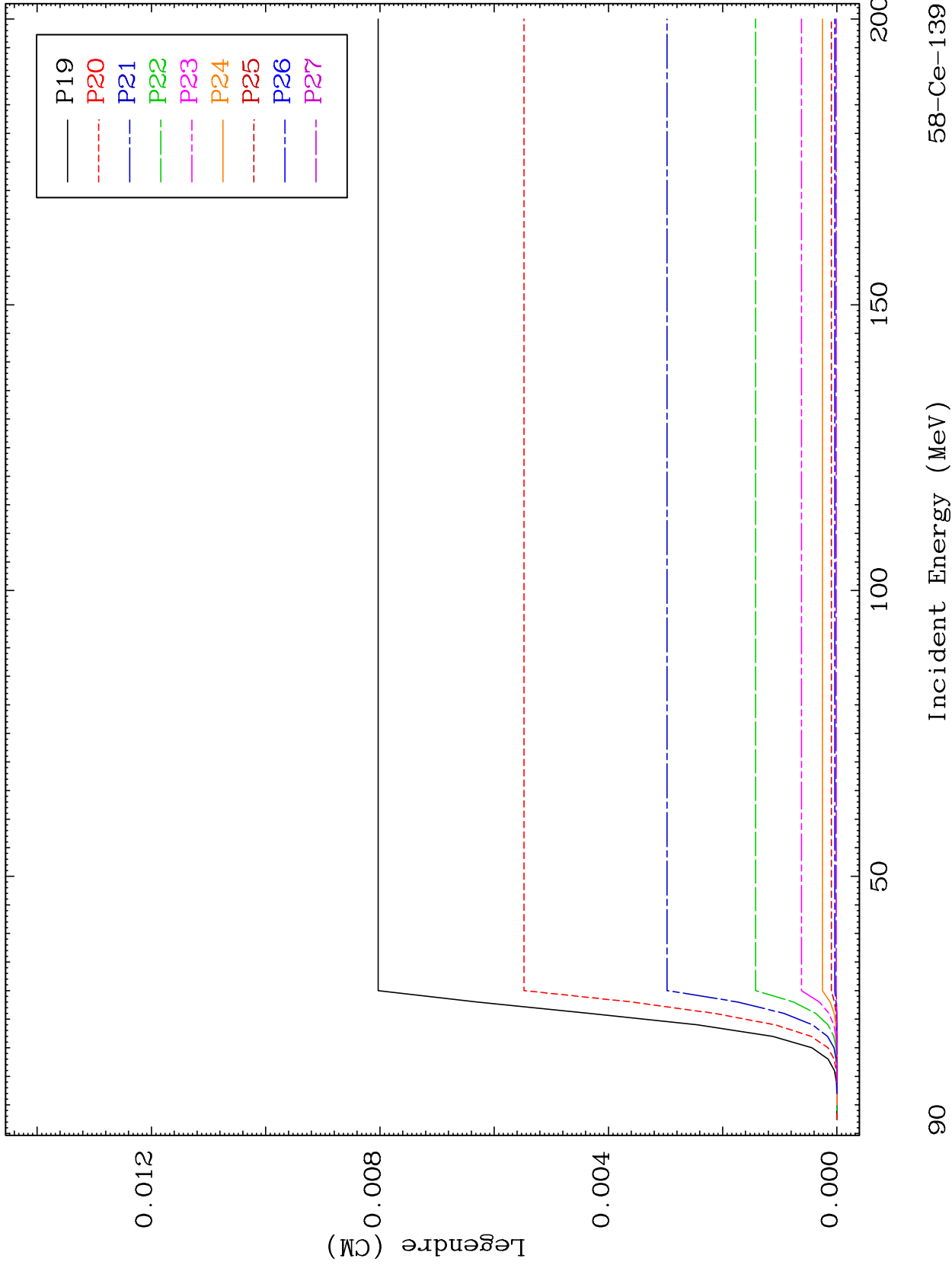
Incident Energy (MeV)

58-Ce-139

MAT 5834

2.143 MeV (n,n') Level
Legendre Coefficients

58-Ce-139



90

Incident Energy (MeV)

50

100

150

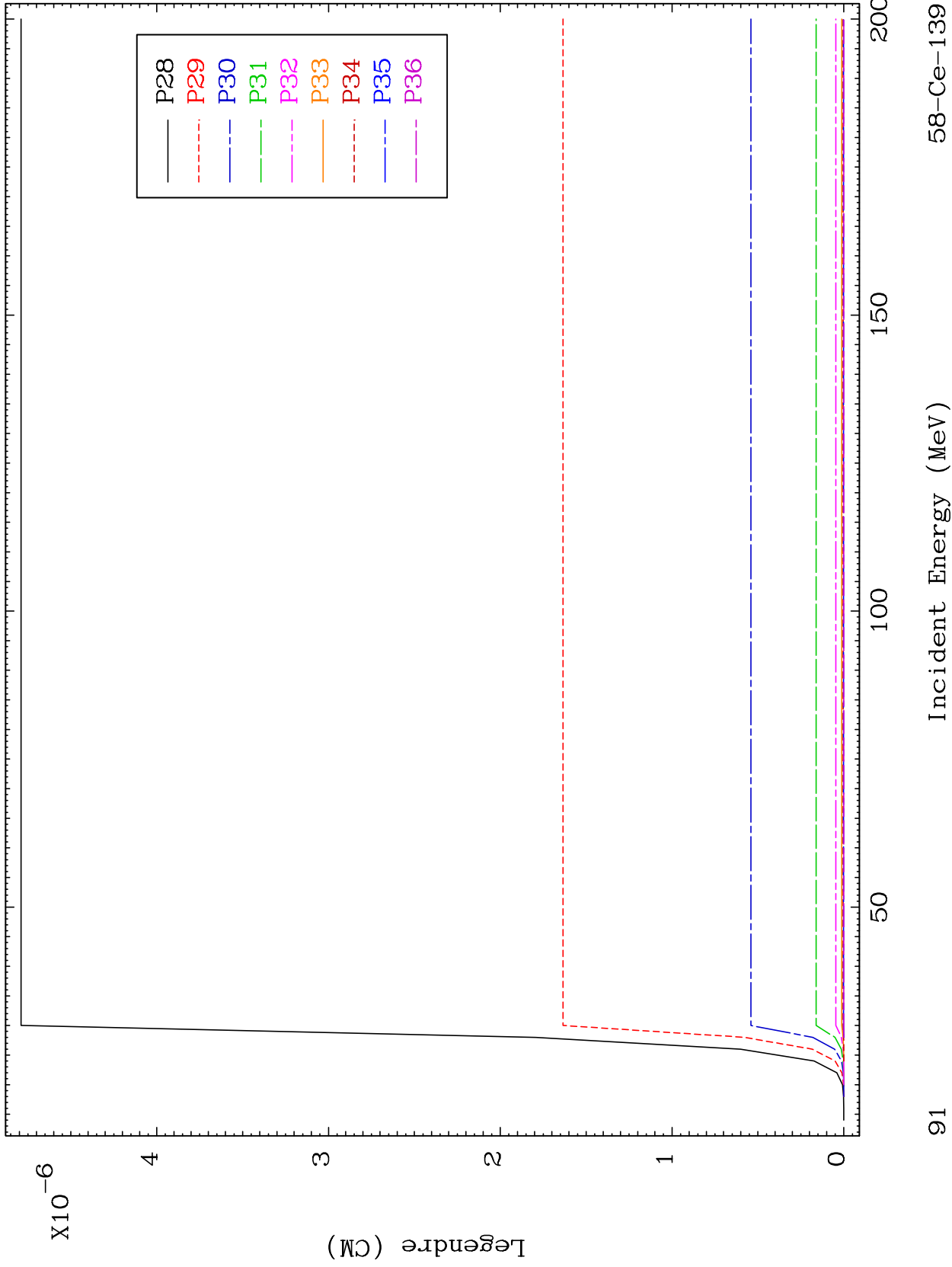
200

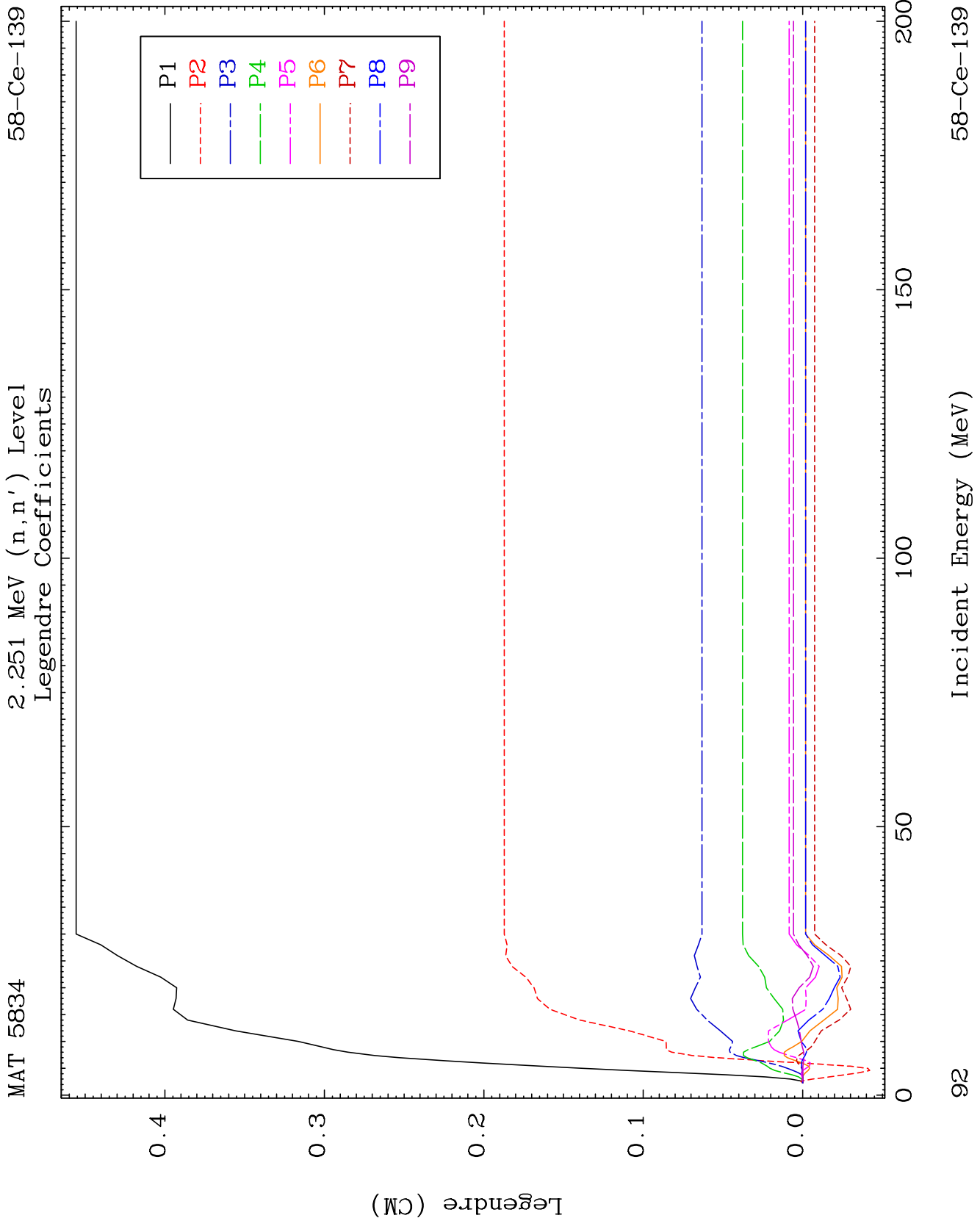
58-Ce-139

MAT 5834

2.143 MeV (n,n') Level
Legendre Coefficients

58-Ce-139

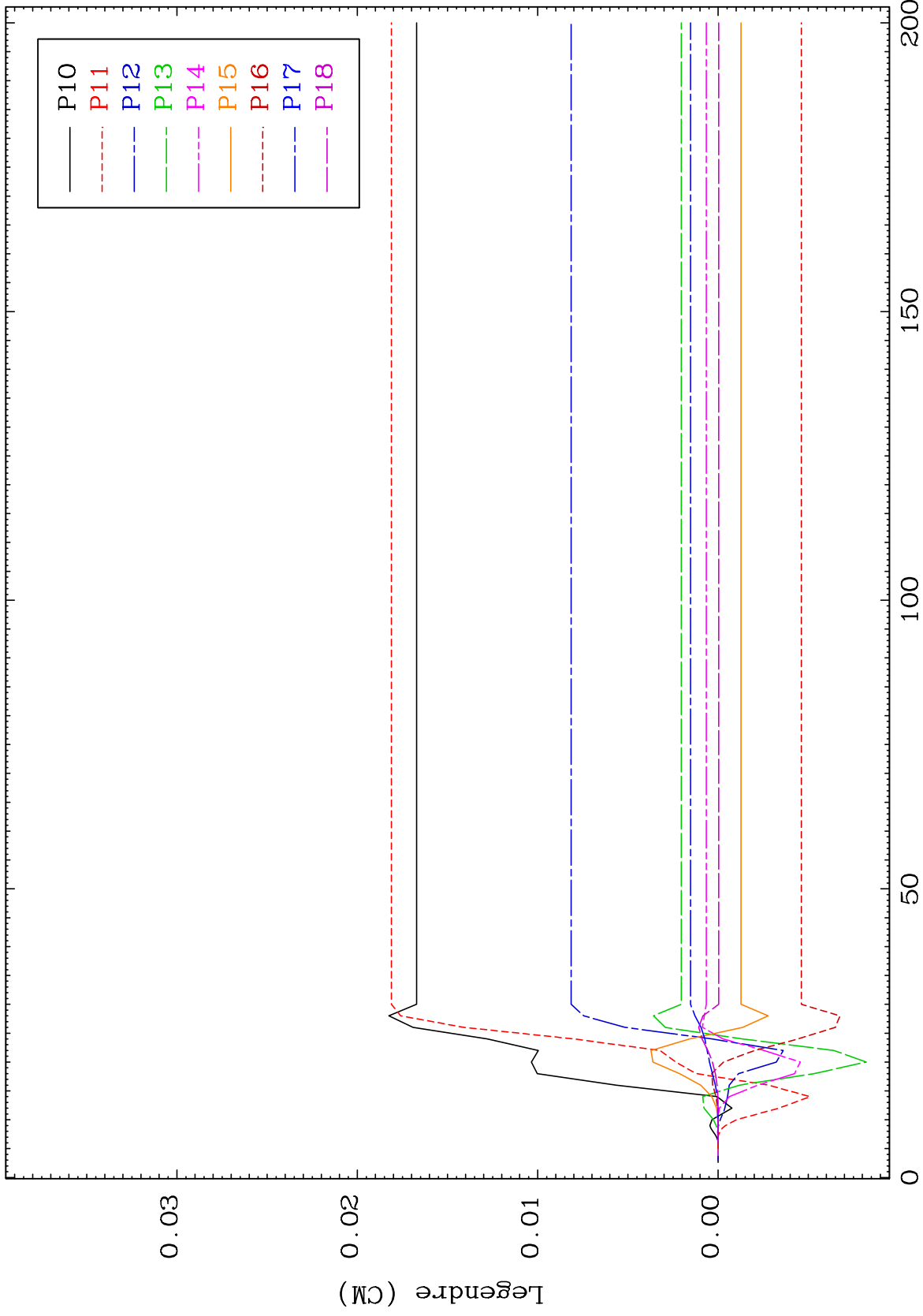




MAT 5834

2.251 MeV (n,n') Level
Legendre Coefficients

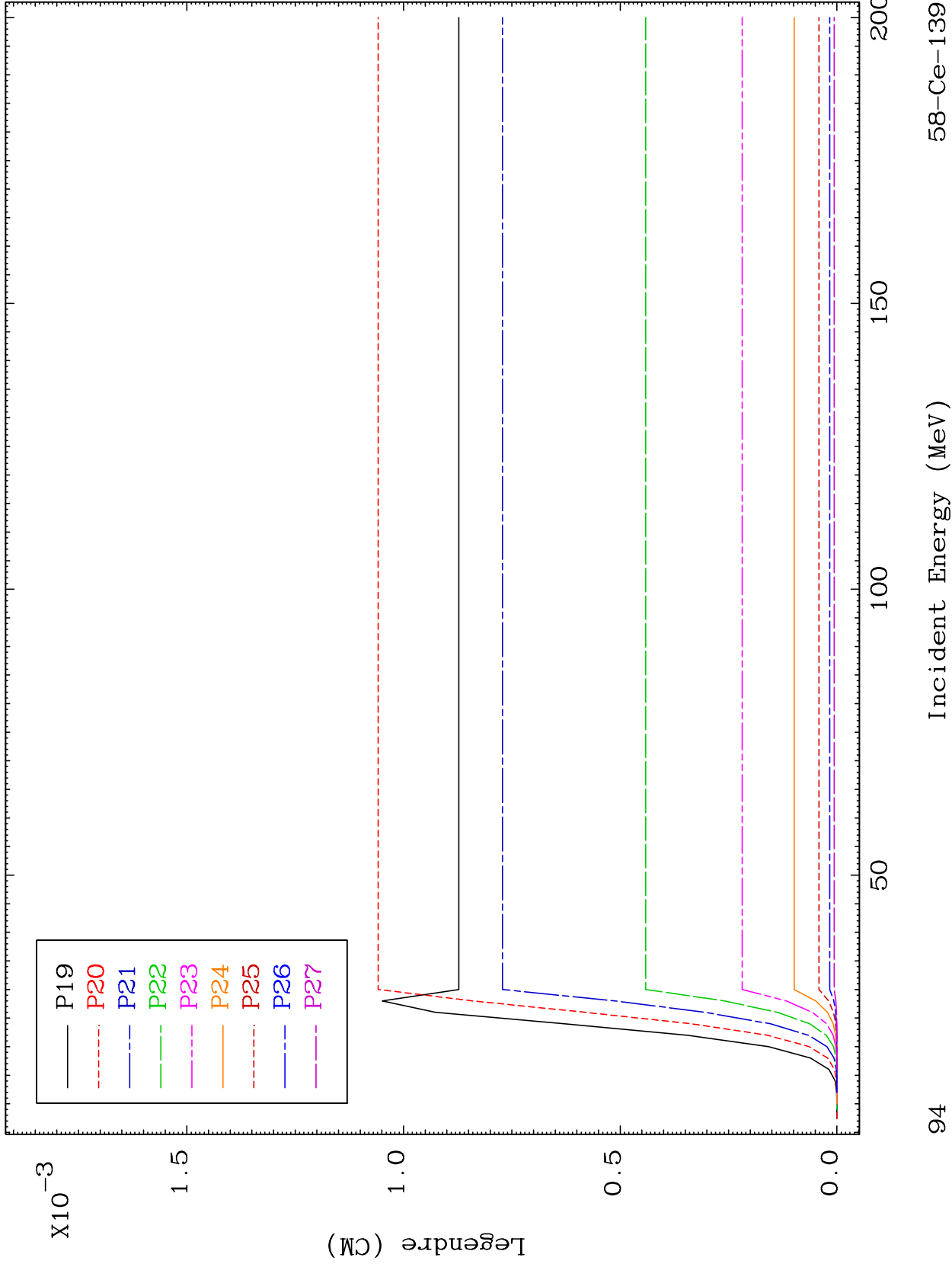
58-Ce-139



93

Incident Energy (MeV)

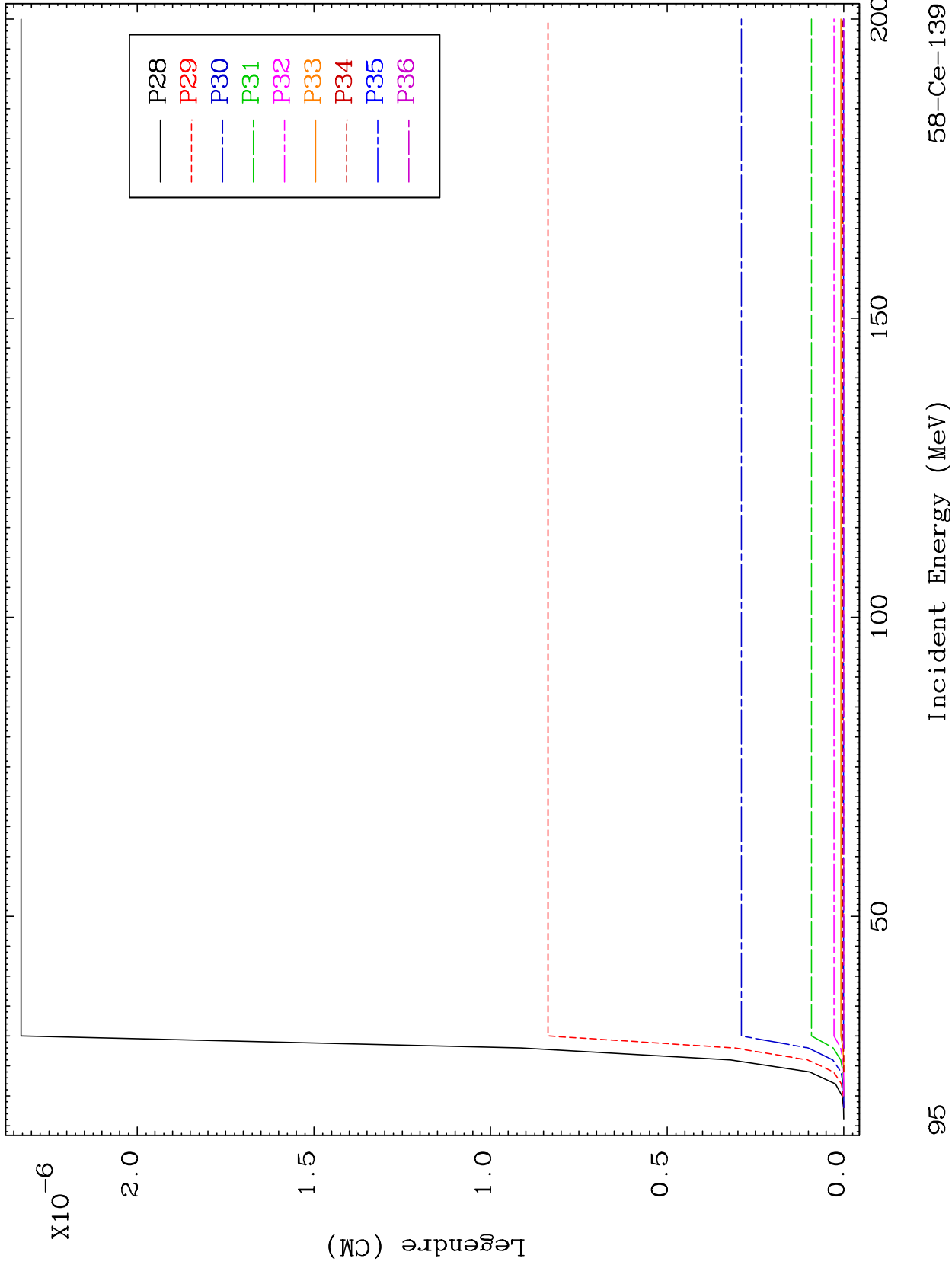
58-Ce-139



MAT 5834

2.251 MeV (n, n') Level
Legendre Coefficients

58-Ce-139



95

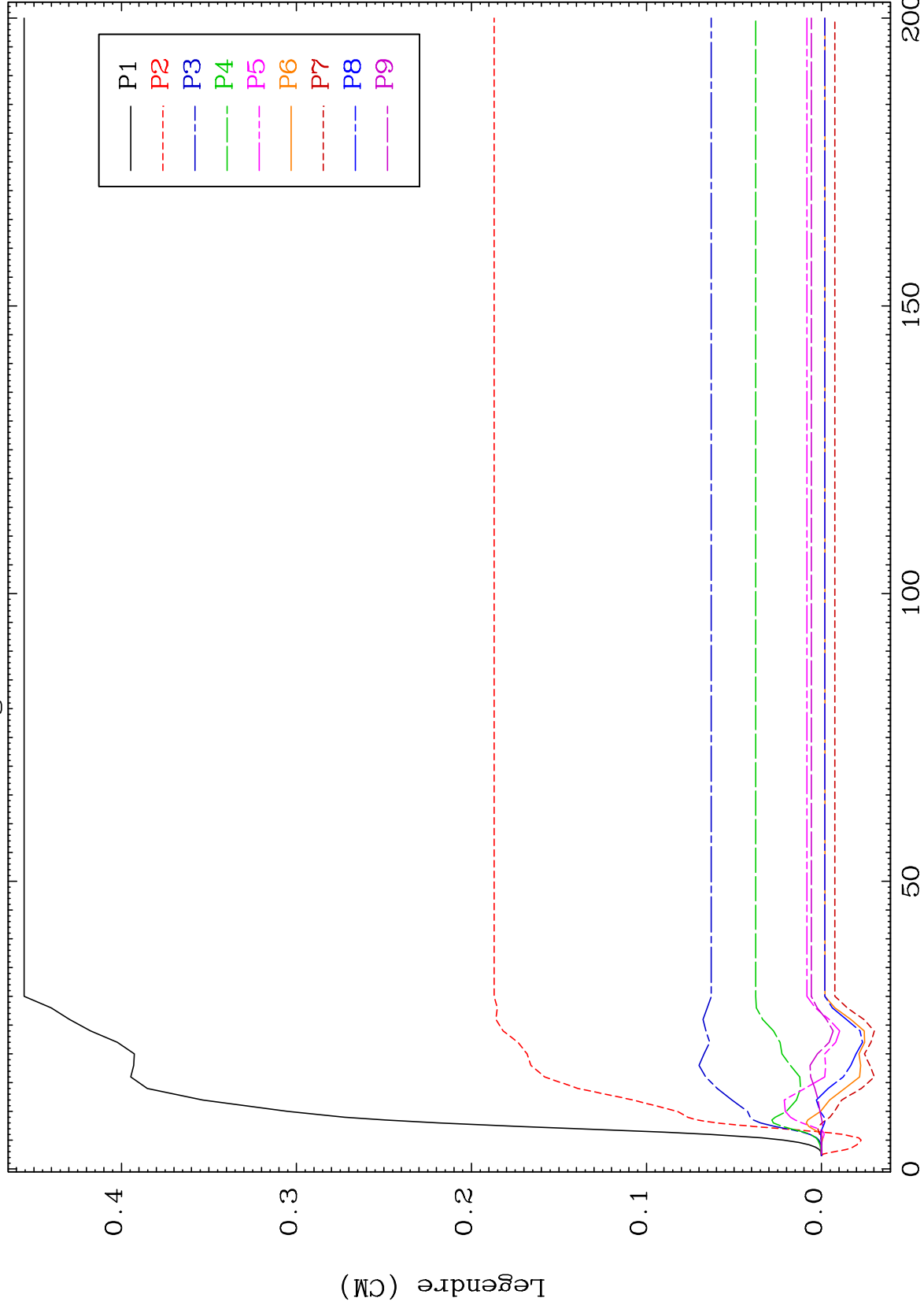
Incident Energy (MeV)

58-Ce-139

MAT 5834

2.286 MeV (n,n') Level
Legendre Coefficients

58-Ce-139



96

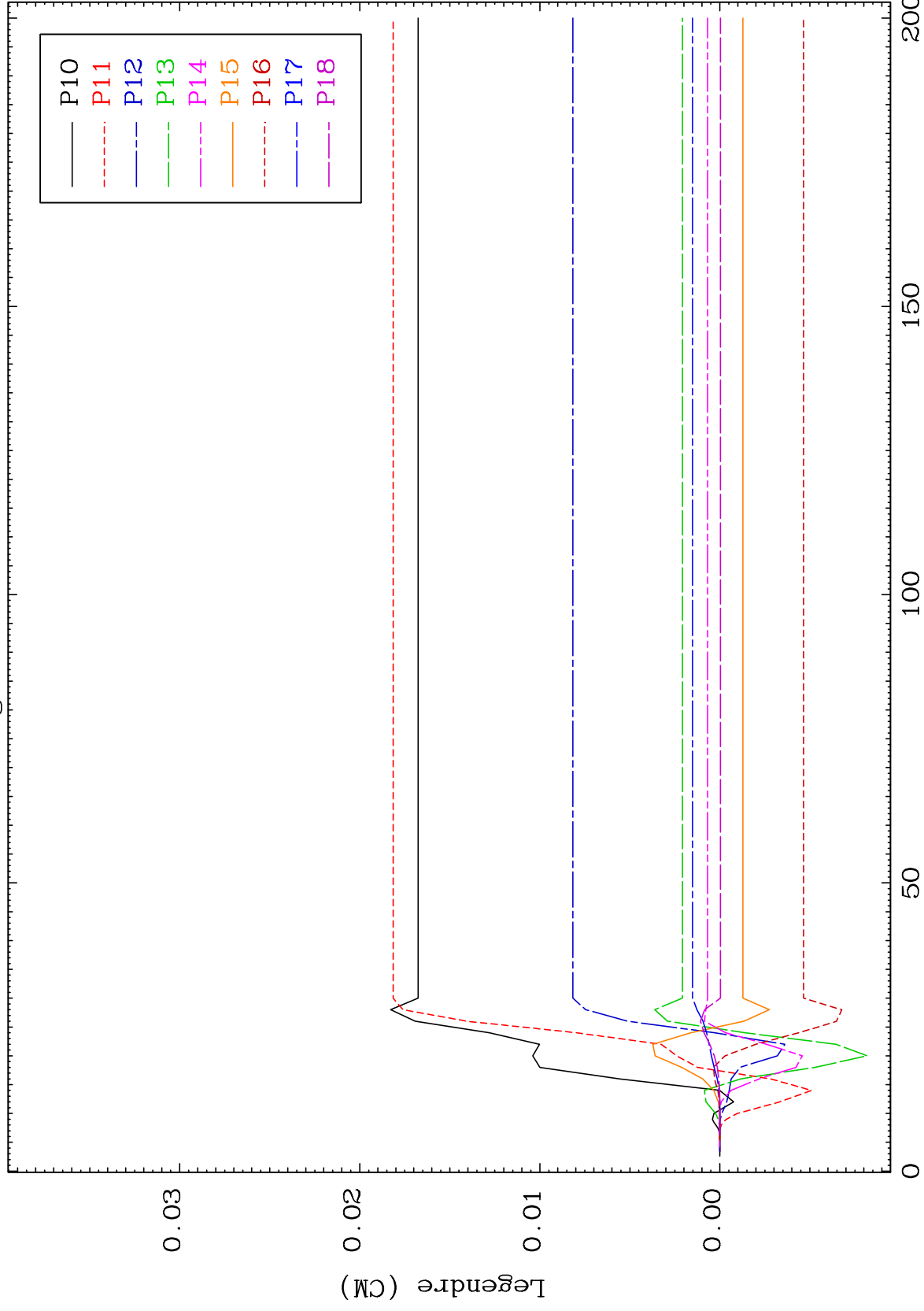
Incident Energy (MeV)

58-Ce-139

MAT 5834

2.286 MeV (n,n') Level
Legendre Coefficients

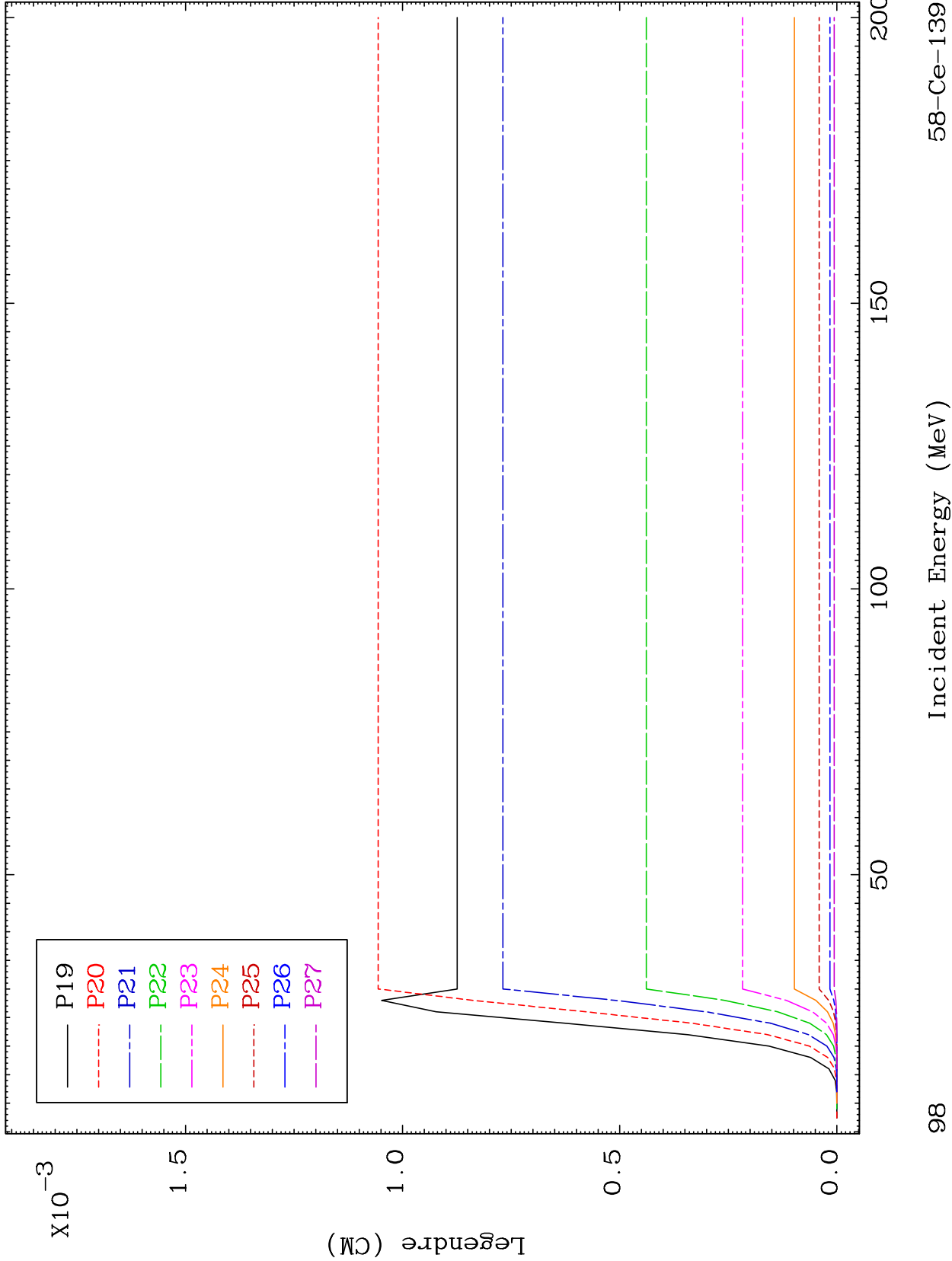
58-Ce-139



97

Incident Energy (MeV)

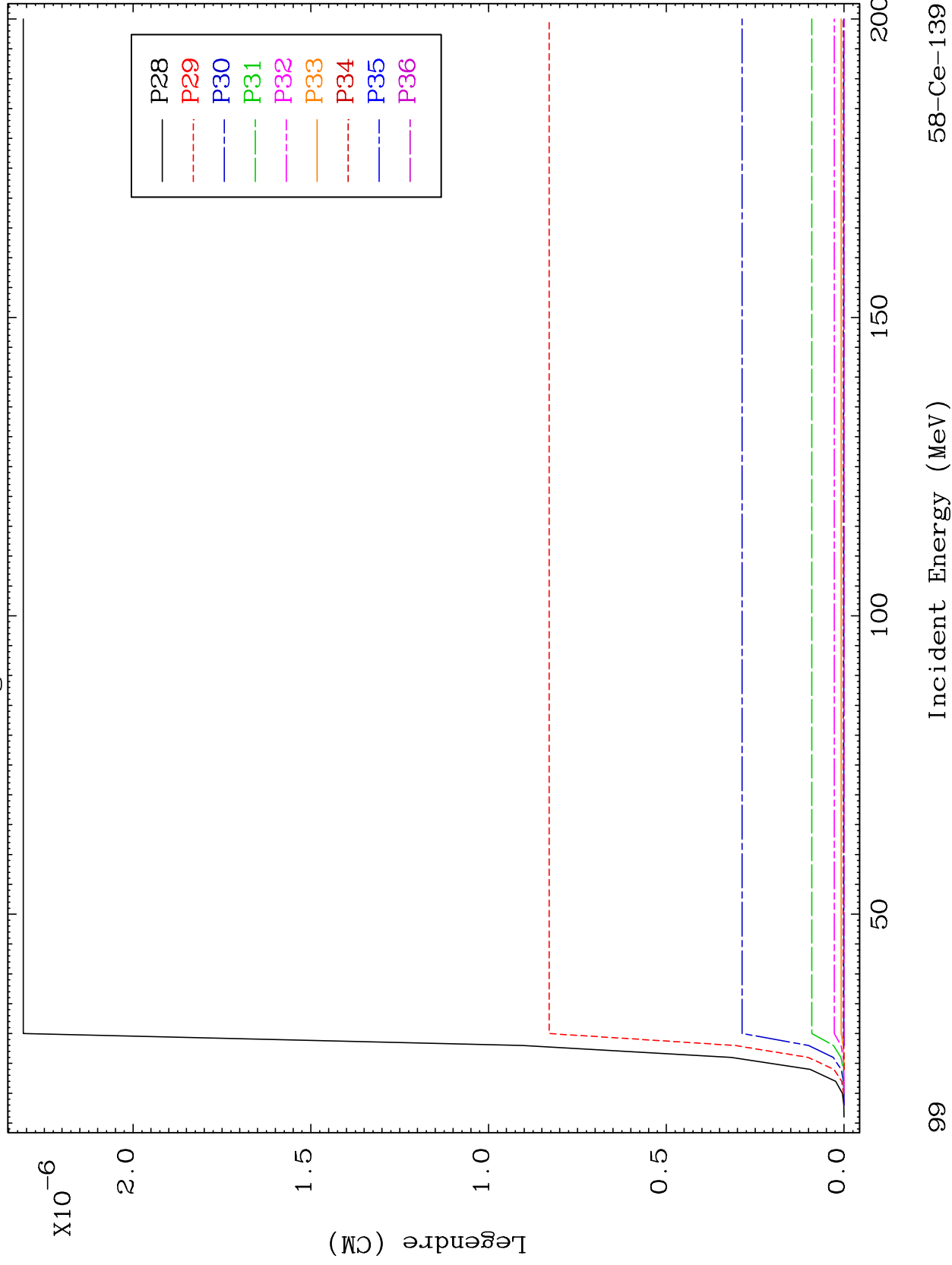
58-Ce-139



MAT 5834

2.286 MeV (n, n') Level
Legendre Coefficients

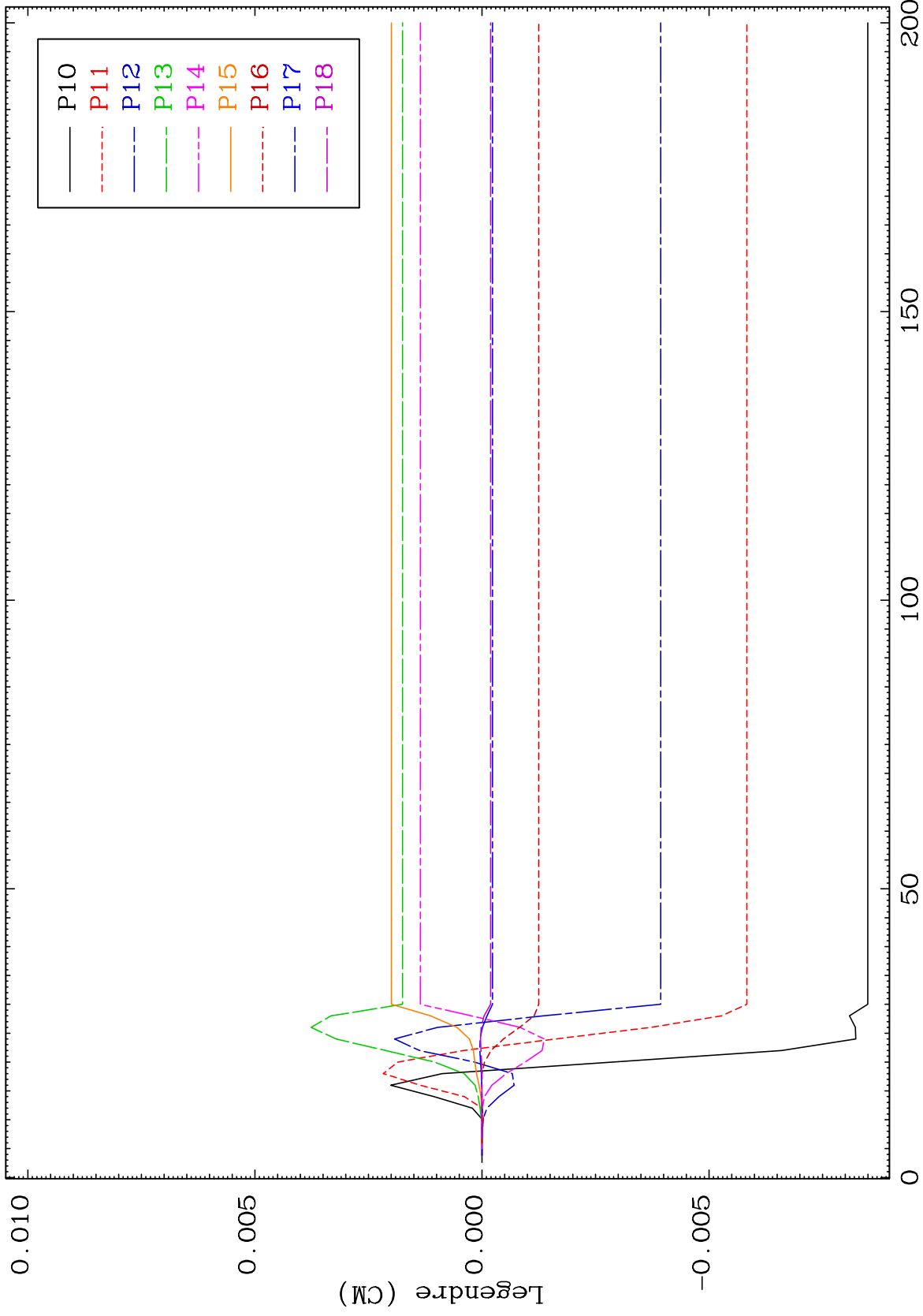
58-Ce-139



MAT 5834

2.362 MeV (n,n') Level
Legendre Coefficients

58-Ce-139



101

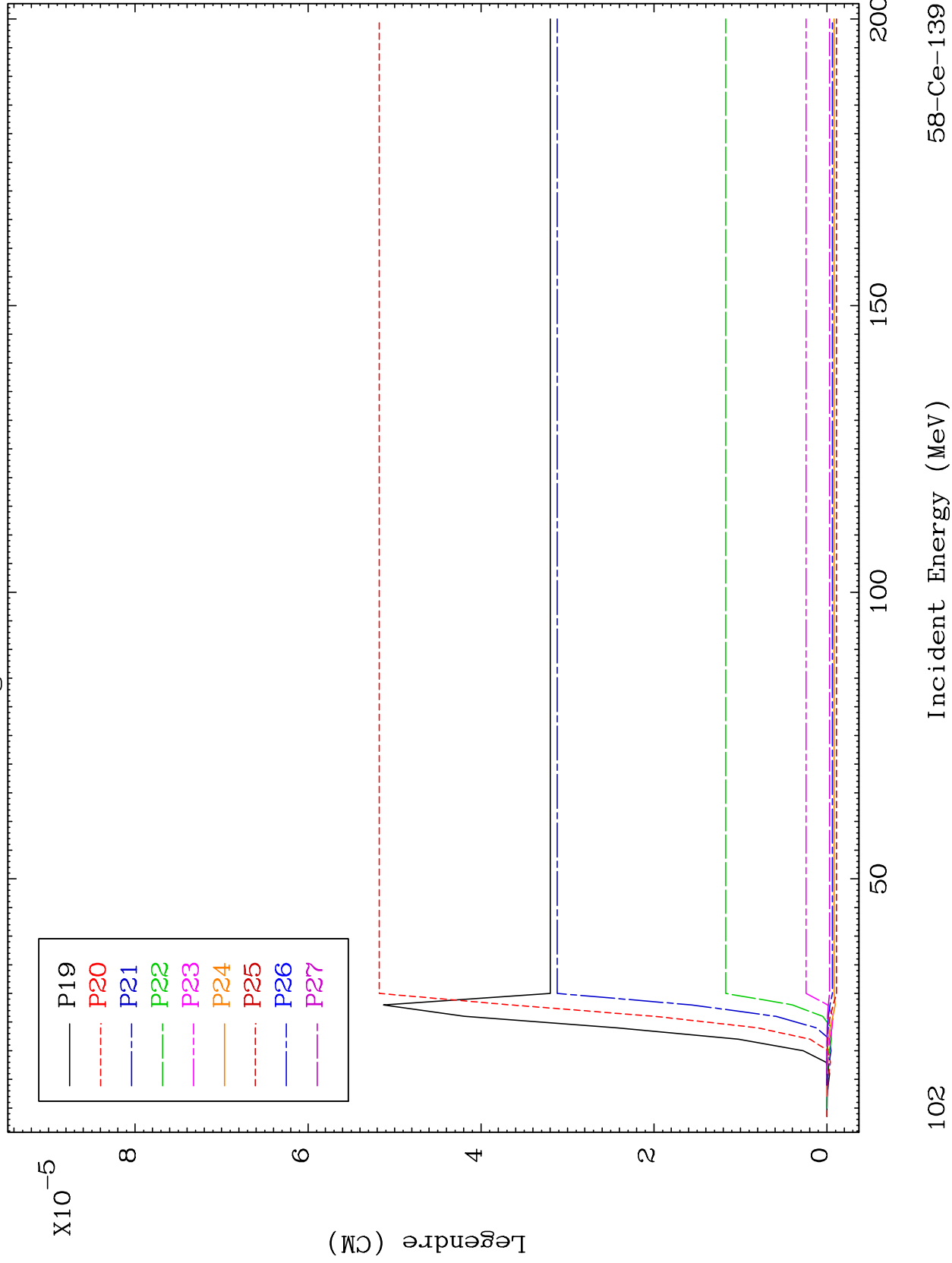
Incident Energy (MeV)

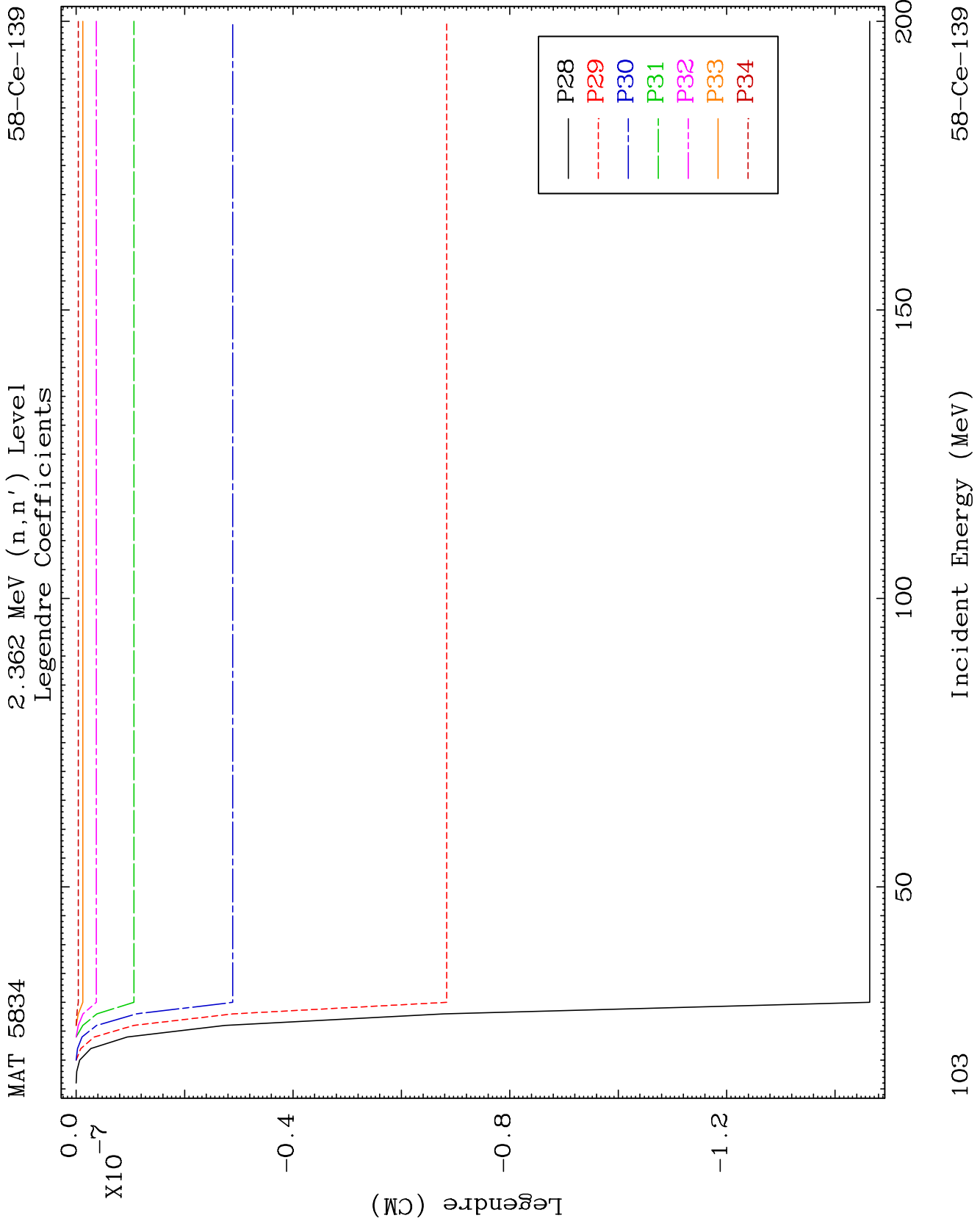
58-Ce-139

MAT 5834

2.362 MeV (n,n') Level
Legendre Coefficients

58-Ce-139

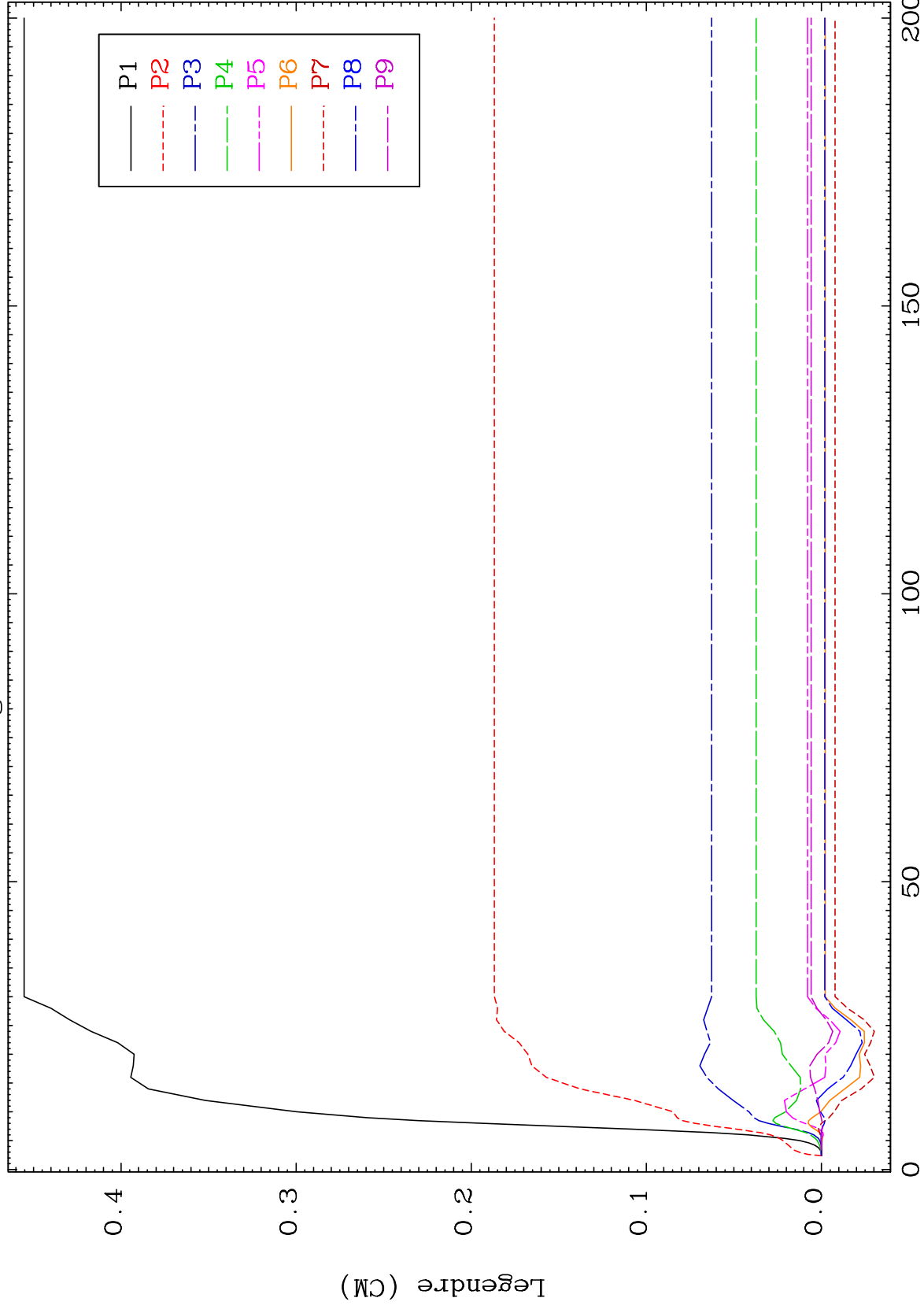




MAT 5834

2.363 MeV (n,n') Level
Legendre Coefficients

58-Ce-139



104

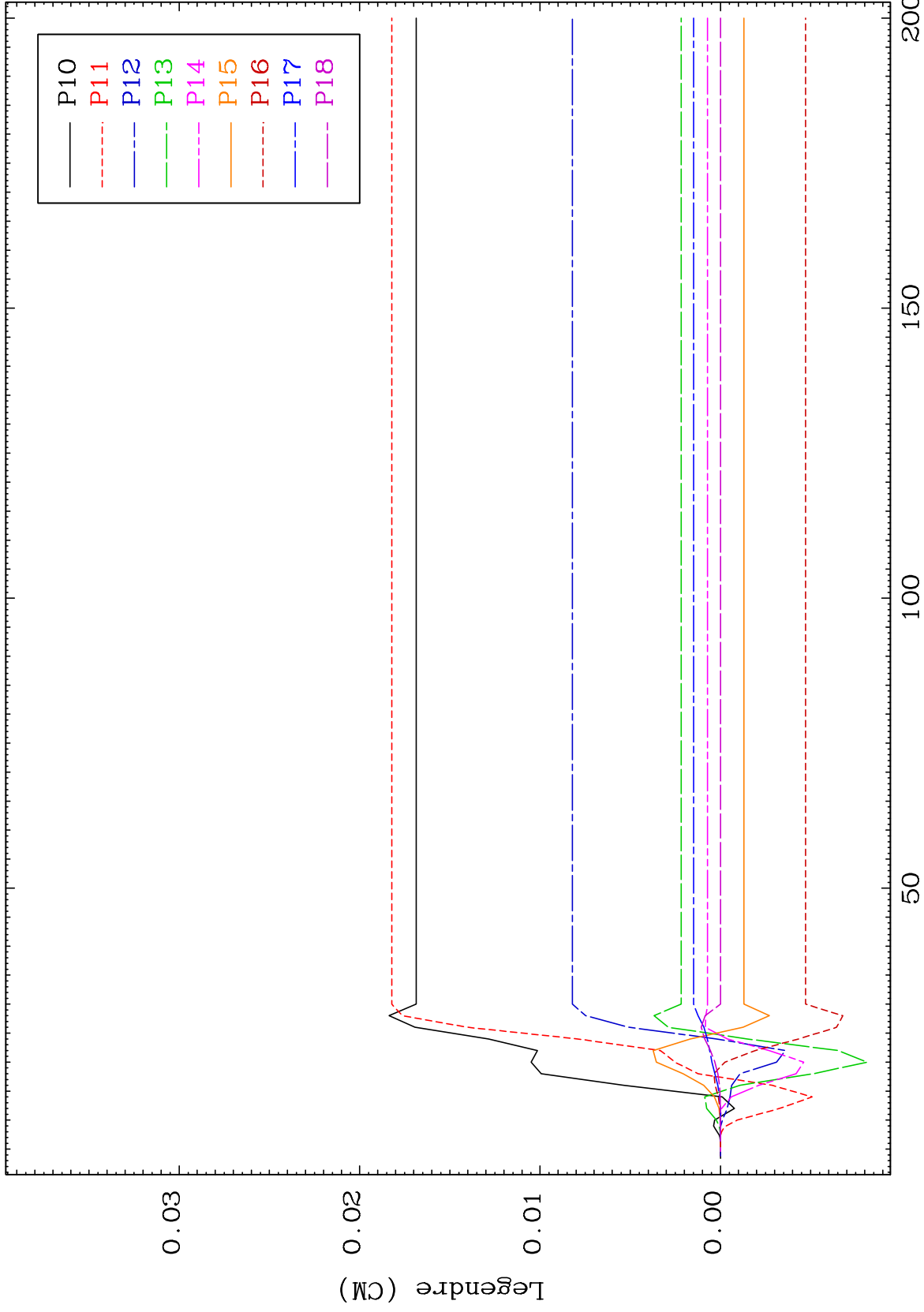
Incident Energy (MeV)

58-Ce-139

MAT 5834

2.363 MeV (n,n') Level
Legendre Coefficients

58-Ce-139



105

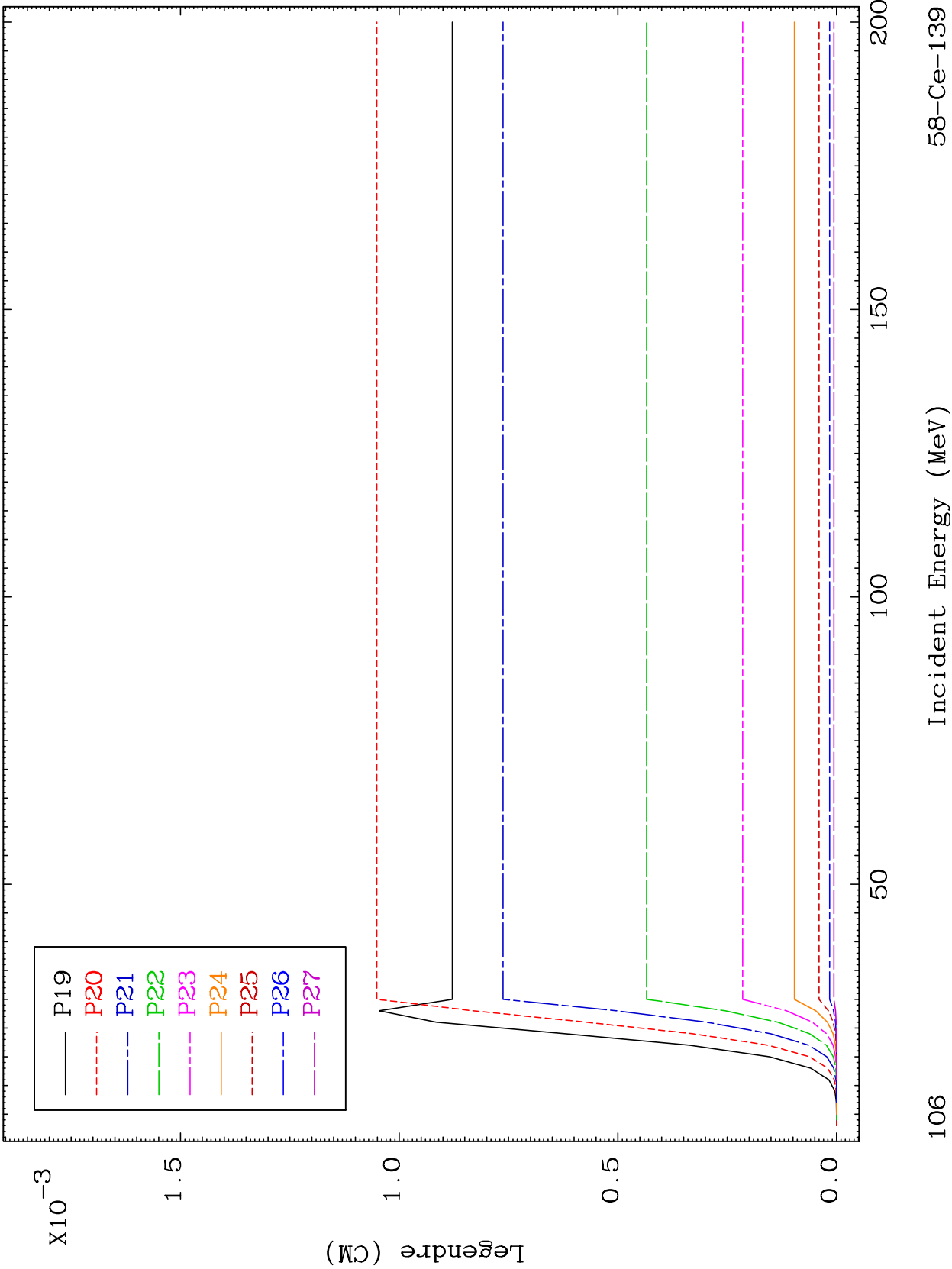
Incident Energy (MeV)

58-Ce-139

MAT 5834

2.363 MeV (n,n') Level
Legendre Coefficients

58-Ce-139



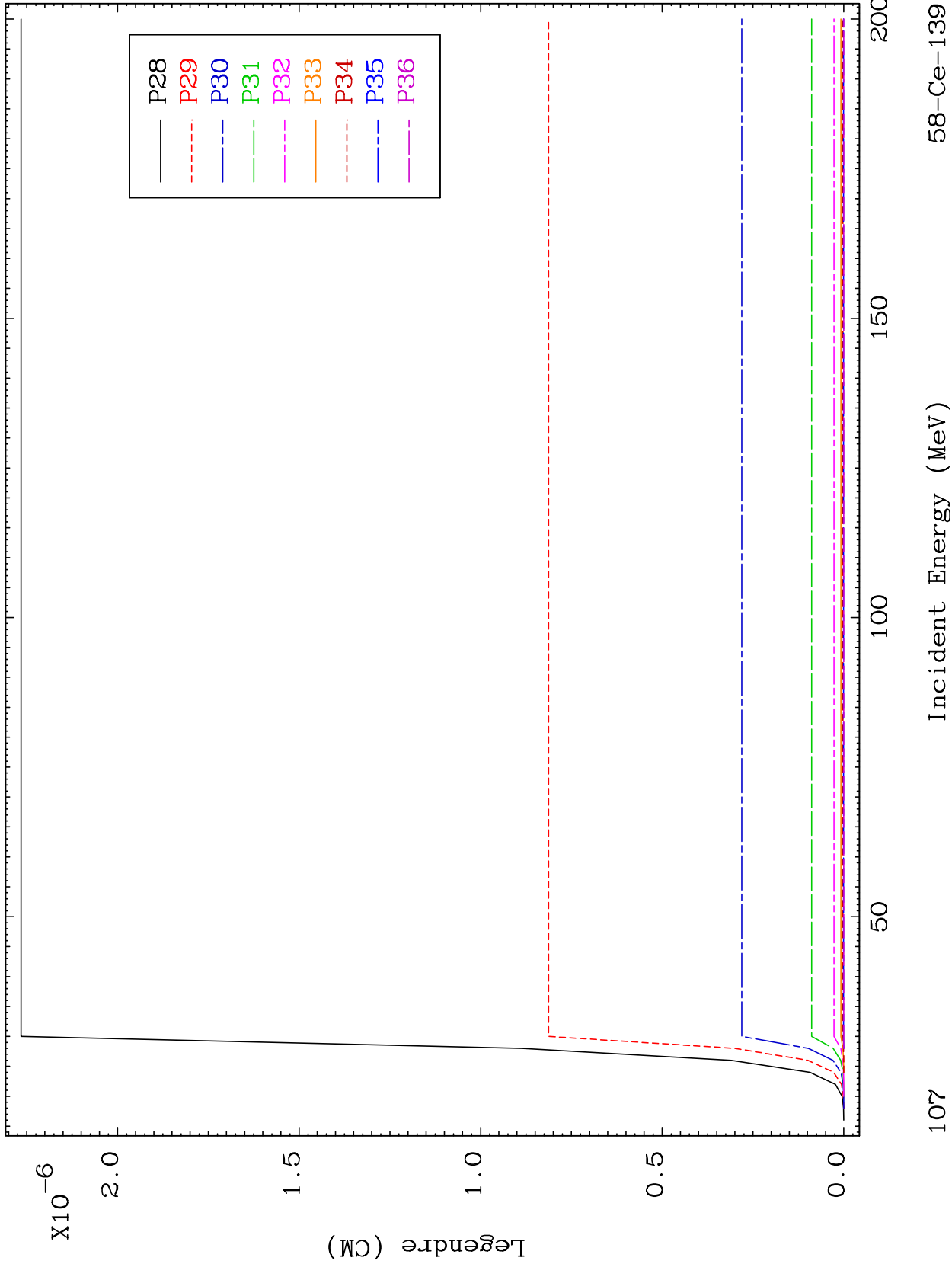
106

58-Ce-139

MAT 5834

2.363 MeV (n,n') Level
Legendre Coefficients

58-Ce-139

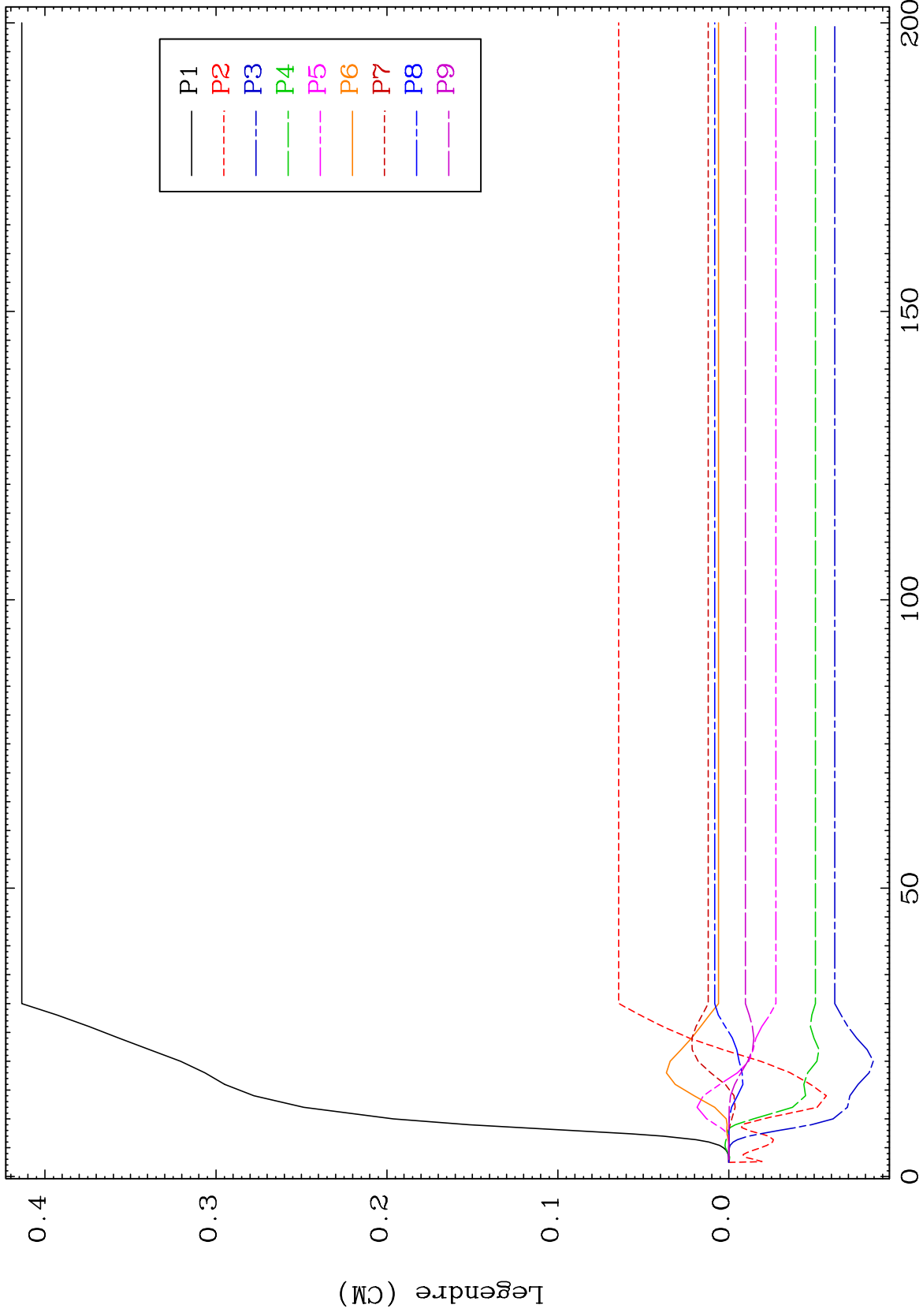


107

MAT 5834

2.426 MeV (n,n') Level
Legendre Coefficients

58-Ce-139



108

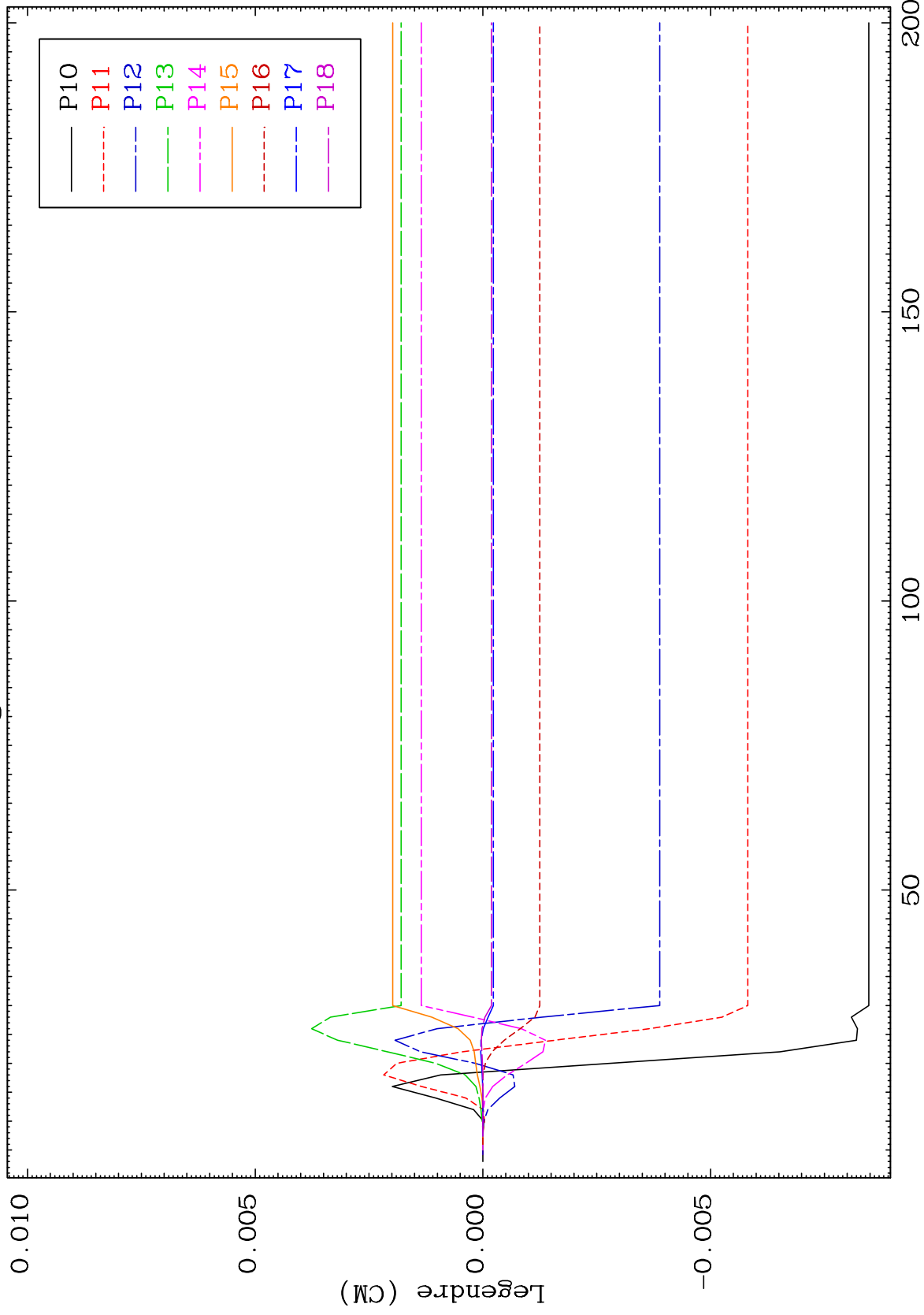
Incident Energy (MeV)

58-Ce-139

MAT 5834

2.426 MeV (n,n') Level
Legendre Coefficients

58-Ce-139



109

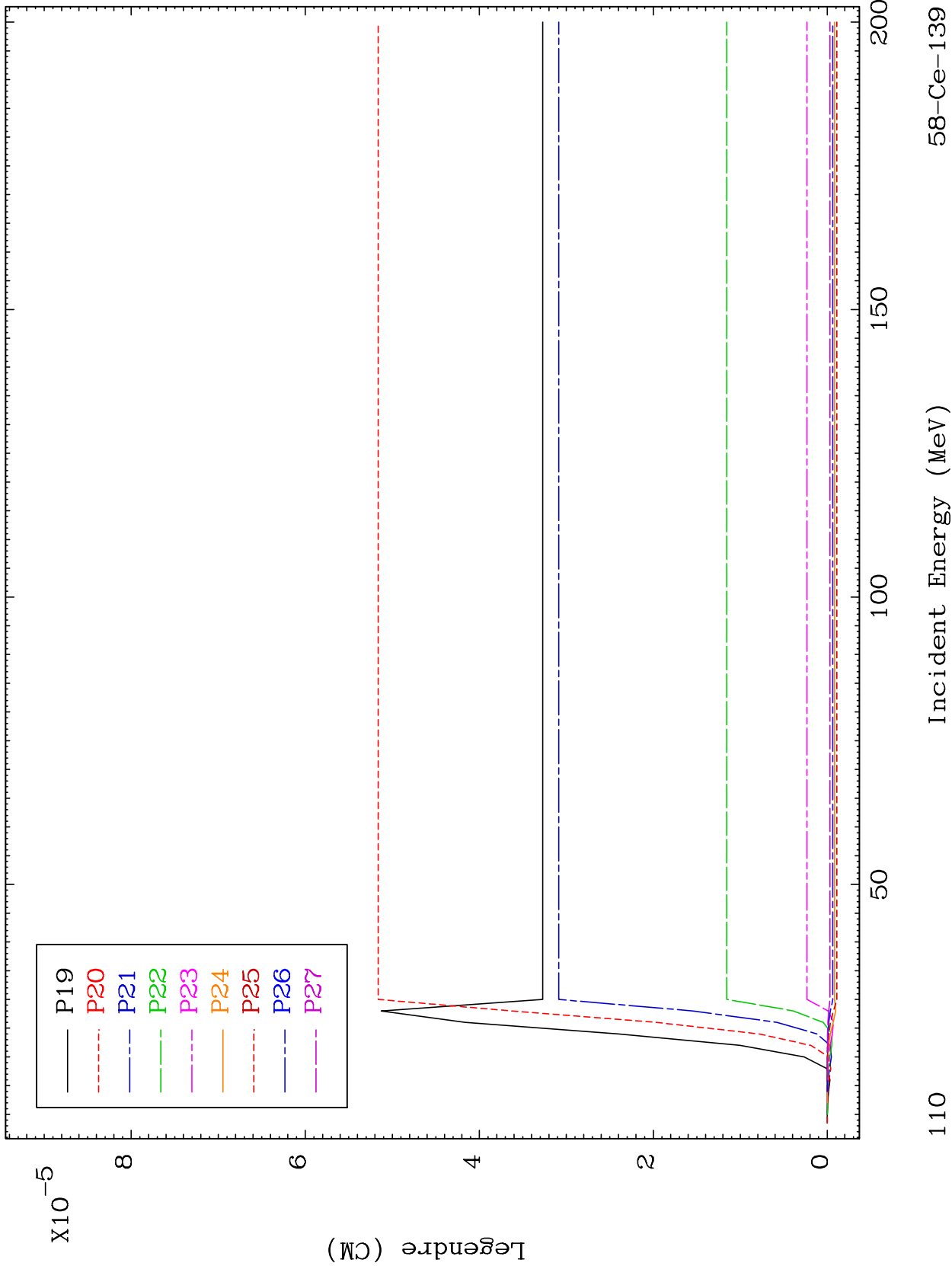
Incident Energy (MeV)

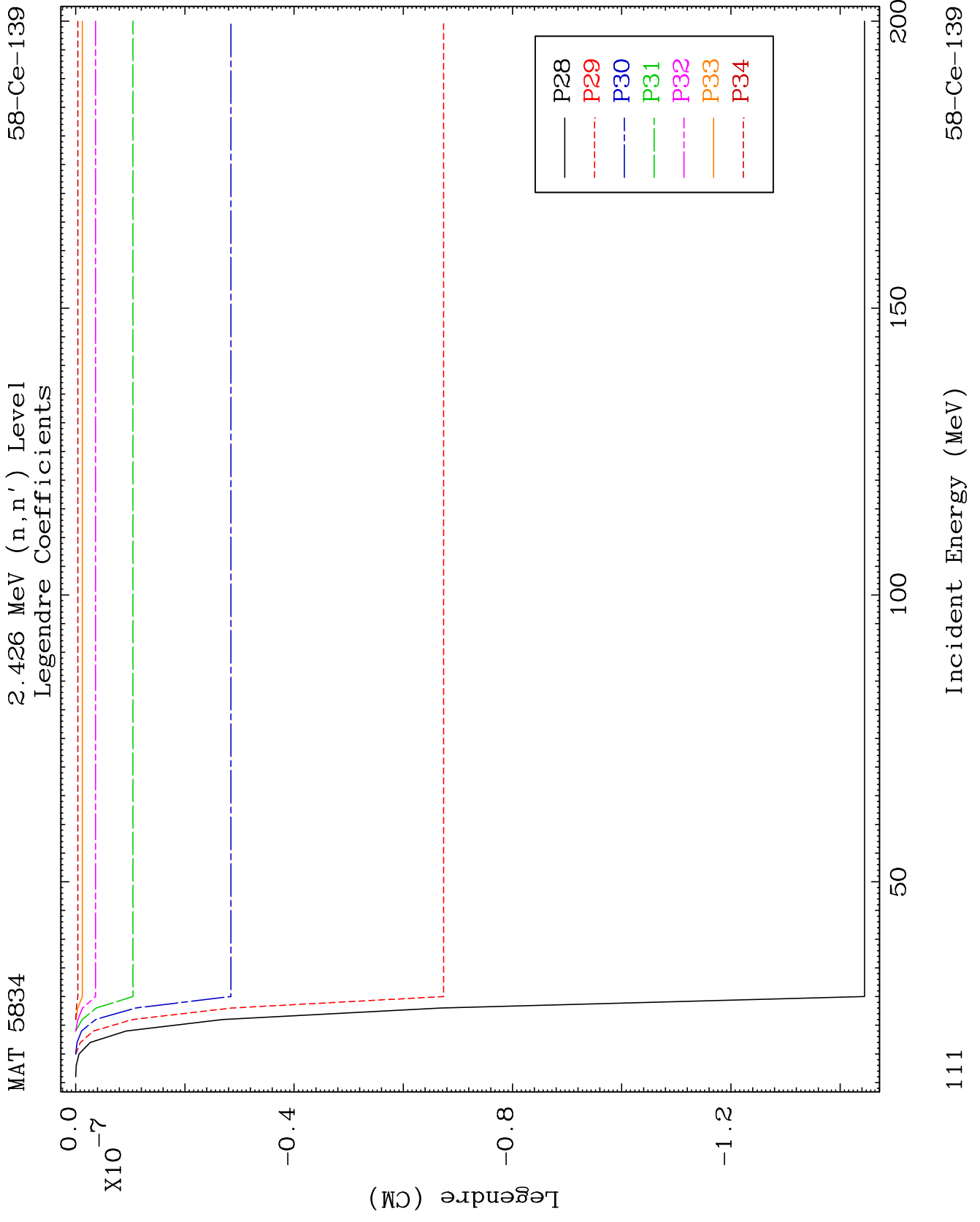
58-Ce-139

MAT 5834

2.426 MeV (n, n') Level
Legendre Coefficients

58-Ce-139

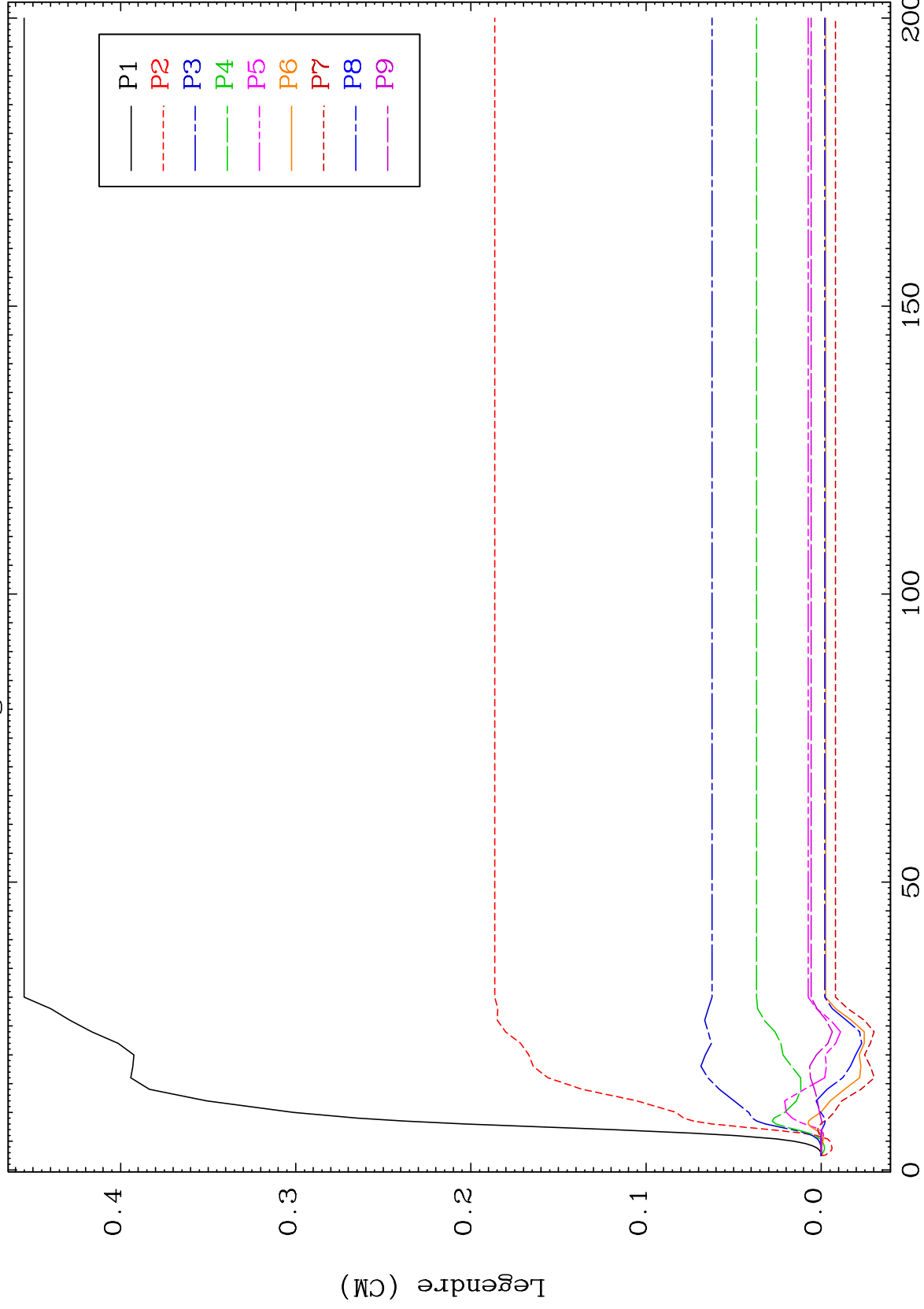




MAT 5834

2.455 MeV (n,n') Level
Legendre Coefficients

58-Ce-139



112

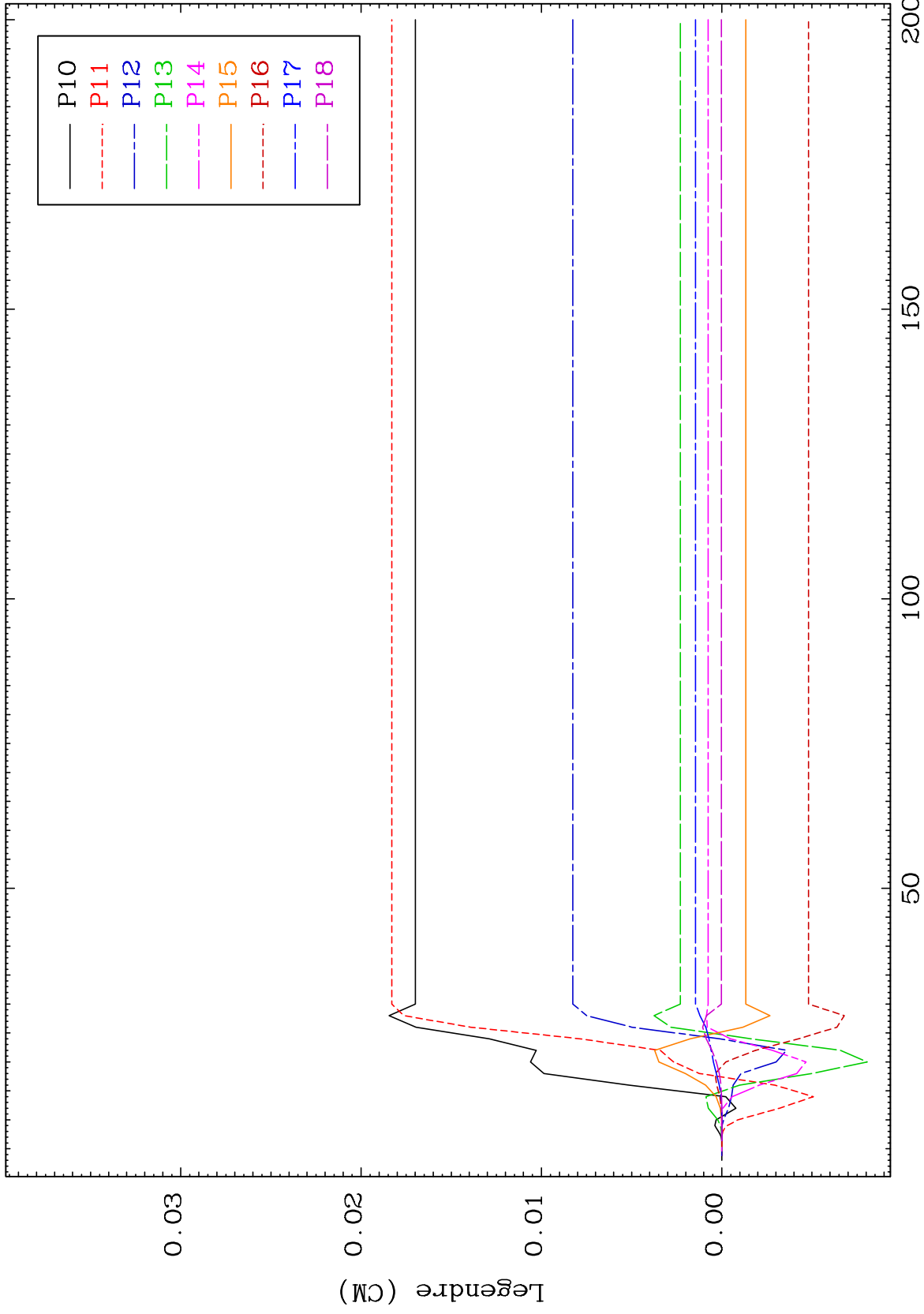
Incident Energy (MeV)

58-Ce-139

MAT 5834

2.455 MeV (n,n') Level
Legendre Coefficients

58-Ce-139



113

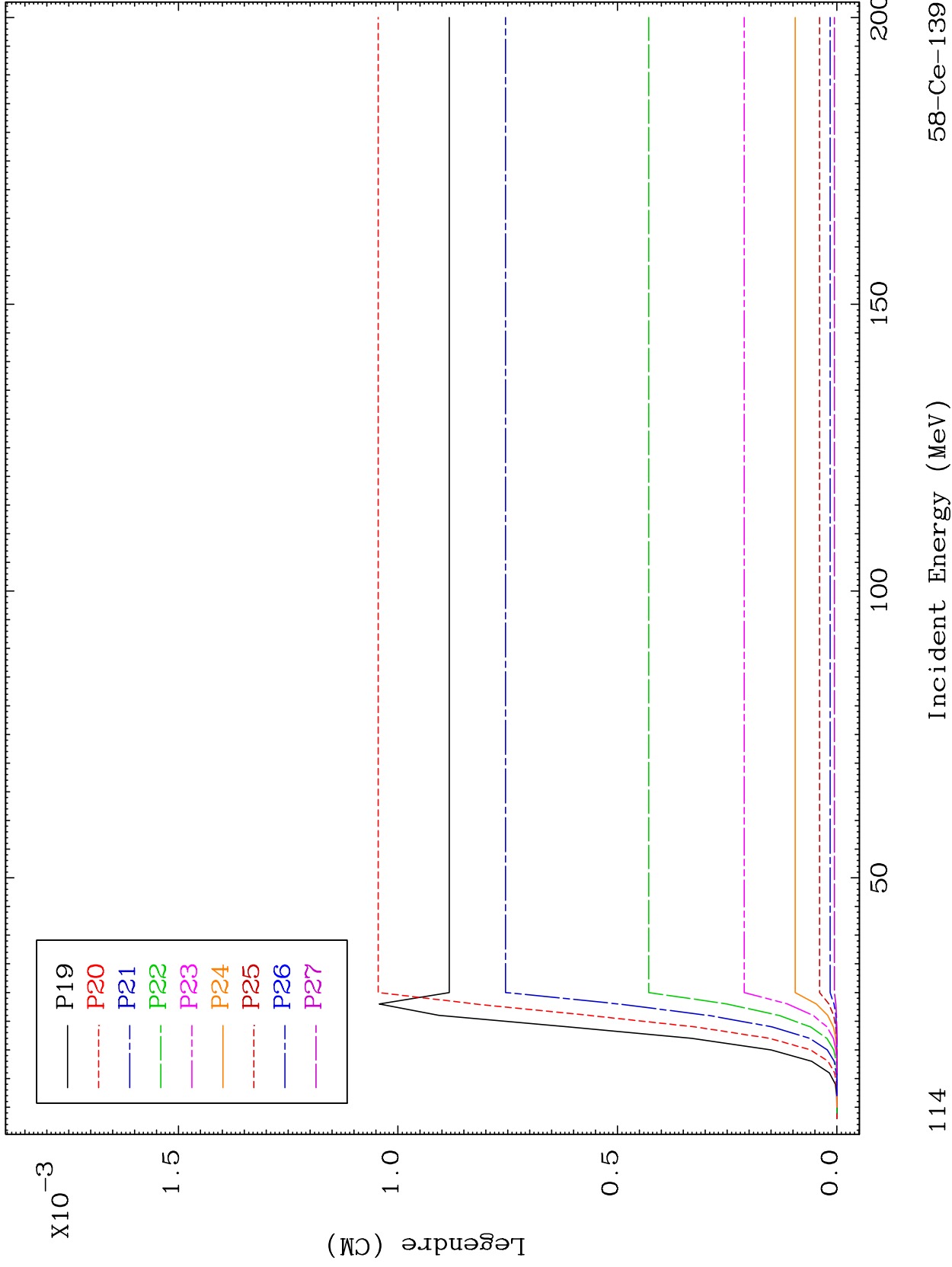
Incident Energy (MeV)

58-Ce-139

MAT 5834

2.455 MeV (n,n') Level
Legendre Coefficients

58-Ce-139

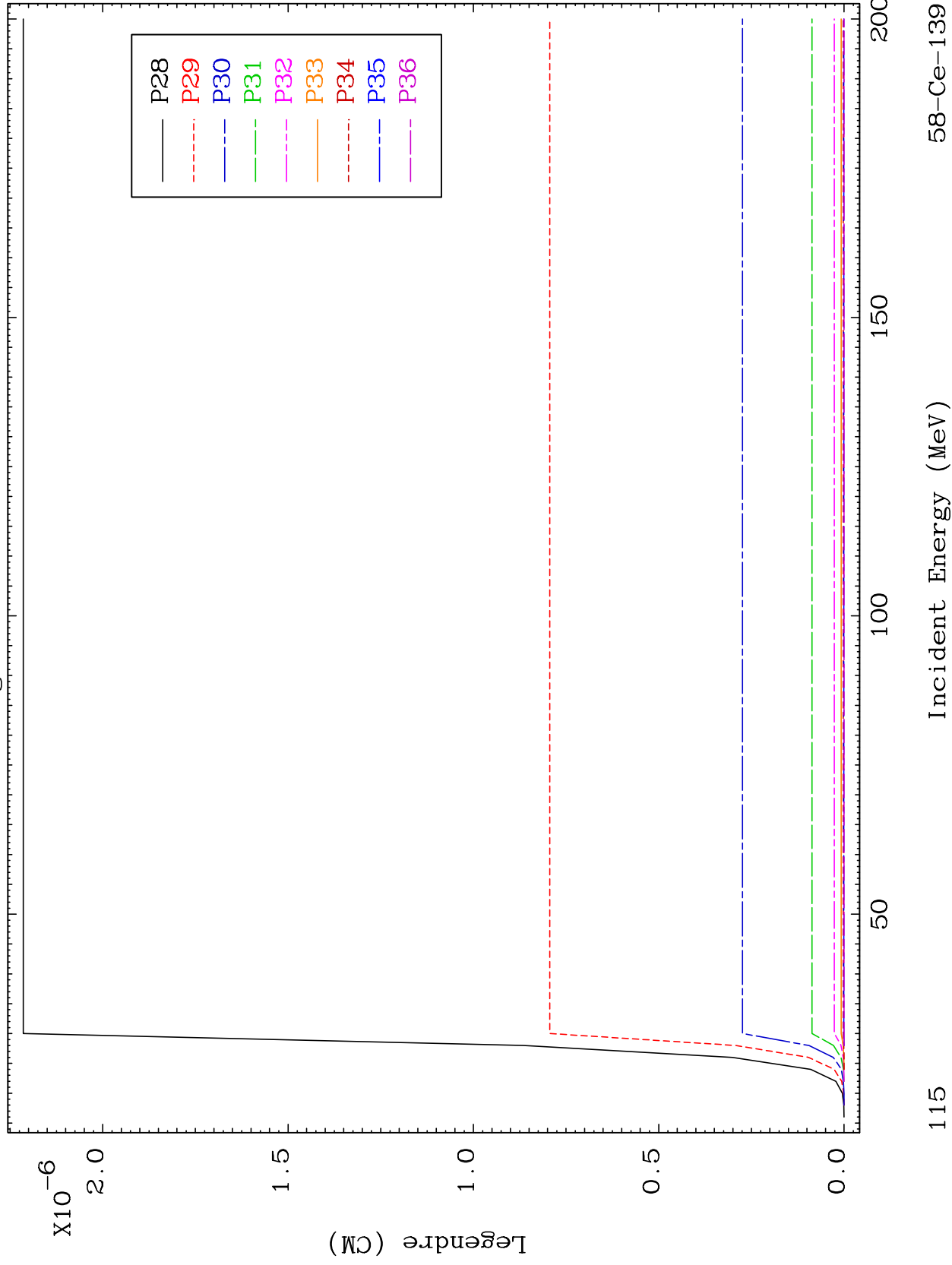


114

MAT 5834

2.455 MeV (n, n') Level
Legendre Coefficients

58-Ce-139



115

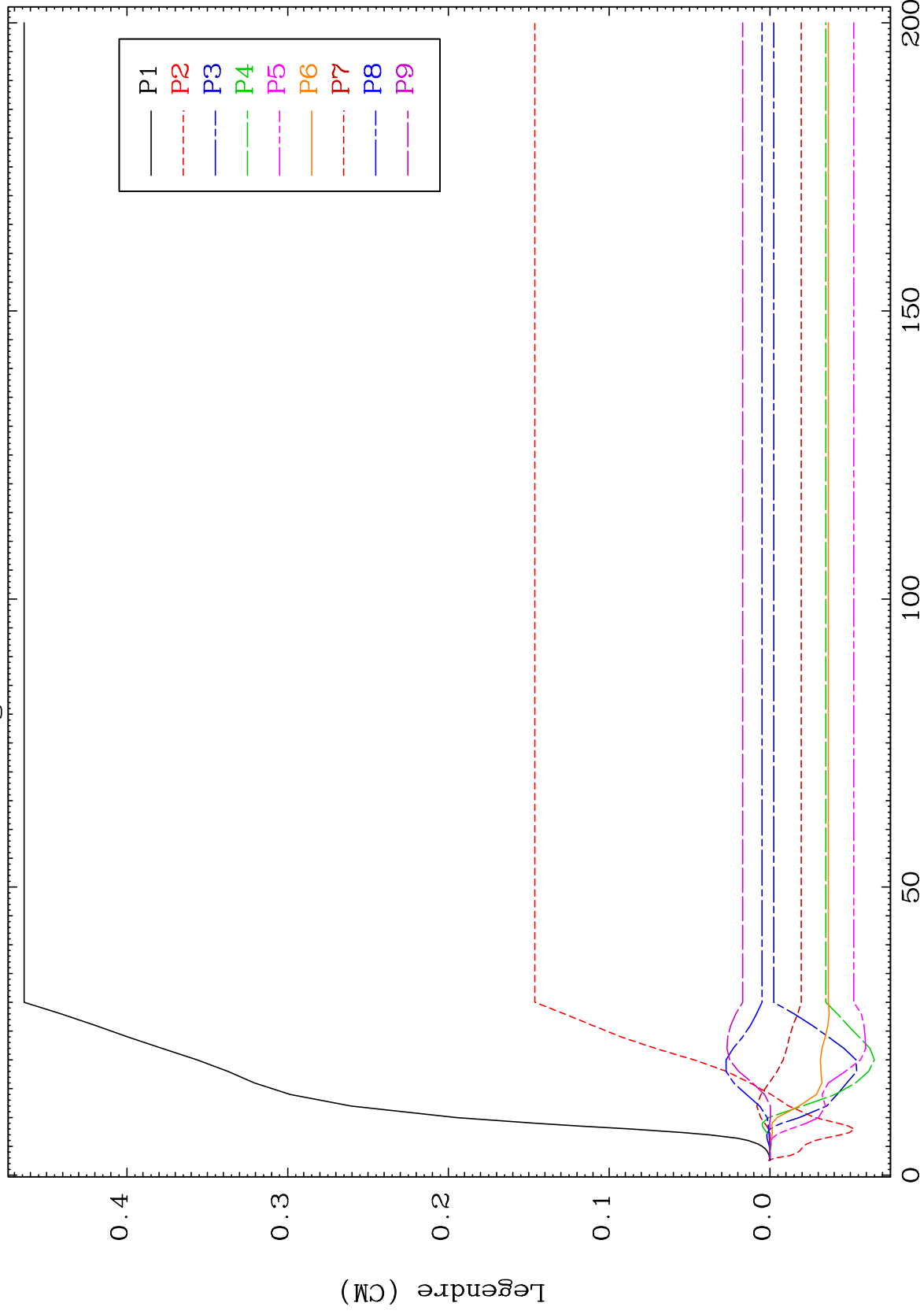
Incident Energy (MeV)

58-Ce-139

MAT 5834

2.484 MeV (n,n') Level
Legendre Coefficients

58-Ce-139



116

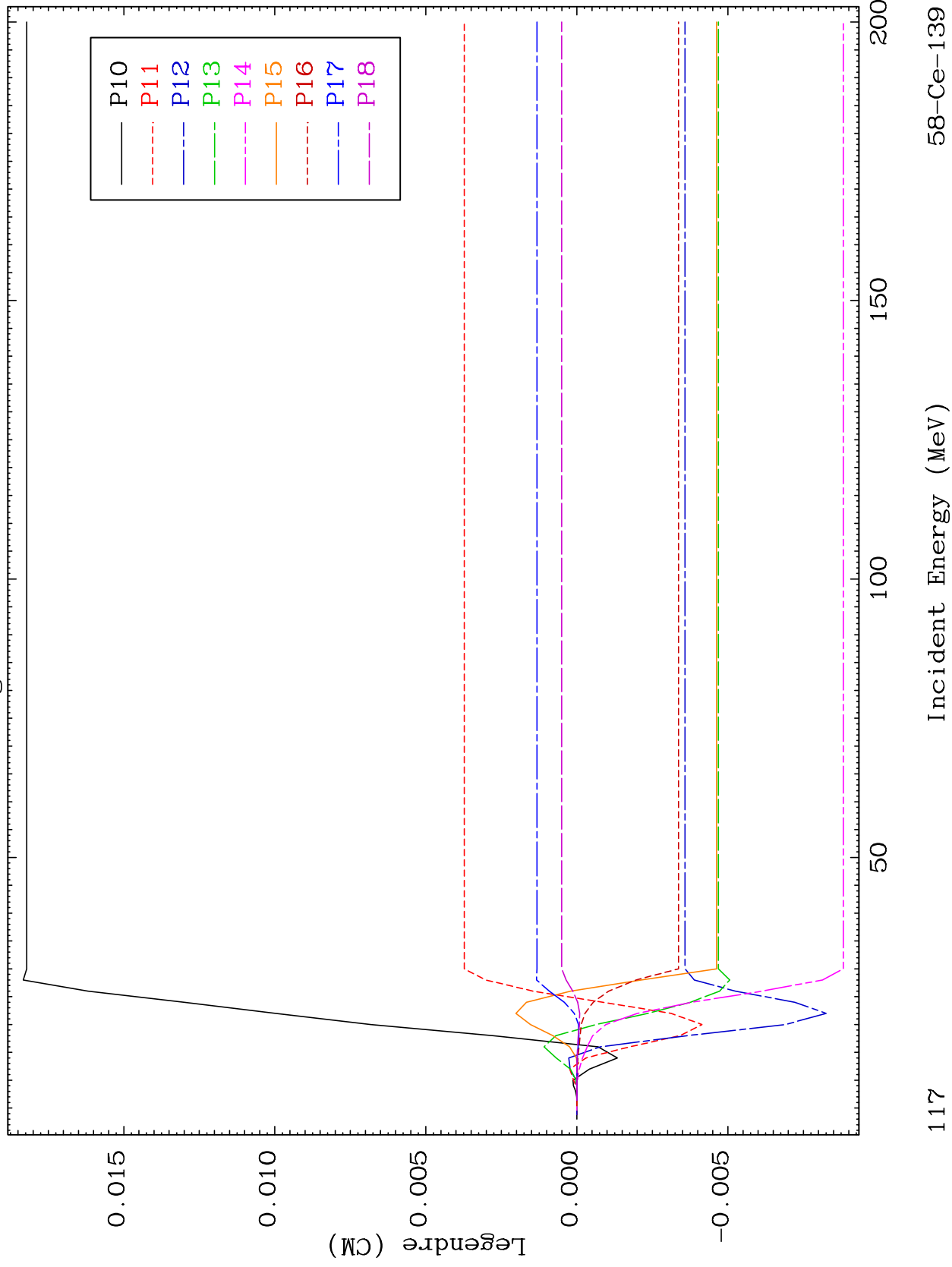
Incident Energy (MeV)

58-Ce-139

MAT 5834

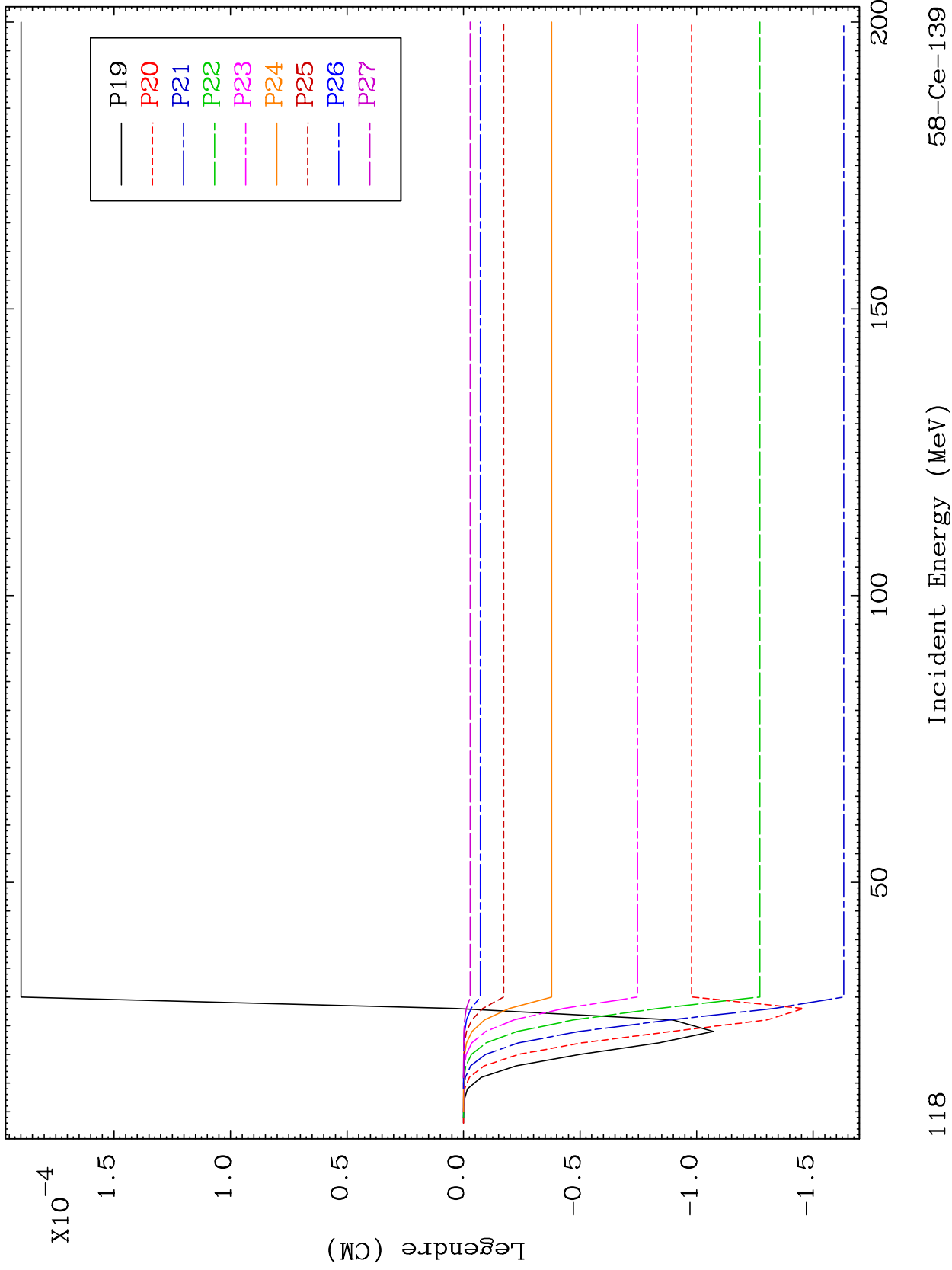
2.484 MeV (n,n') Level
Legendre Coefficients

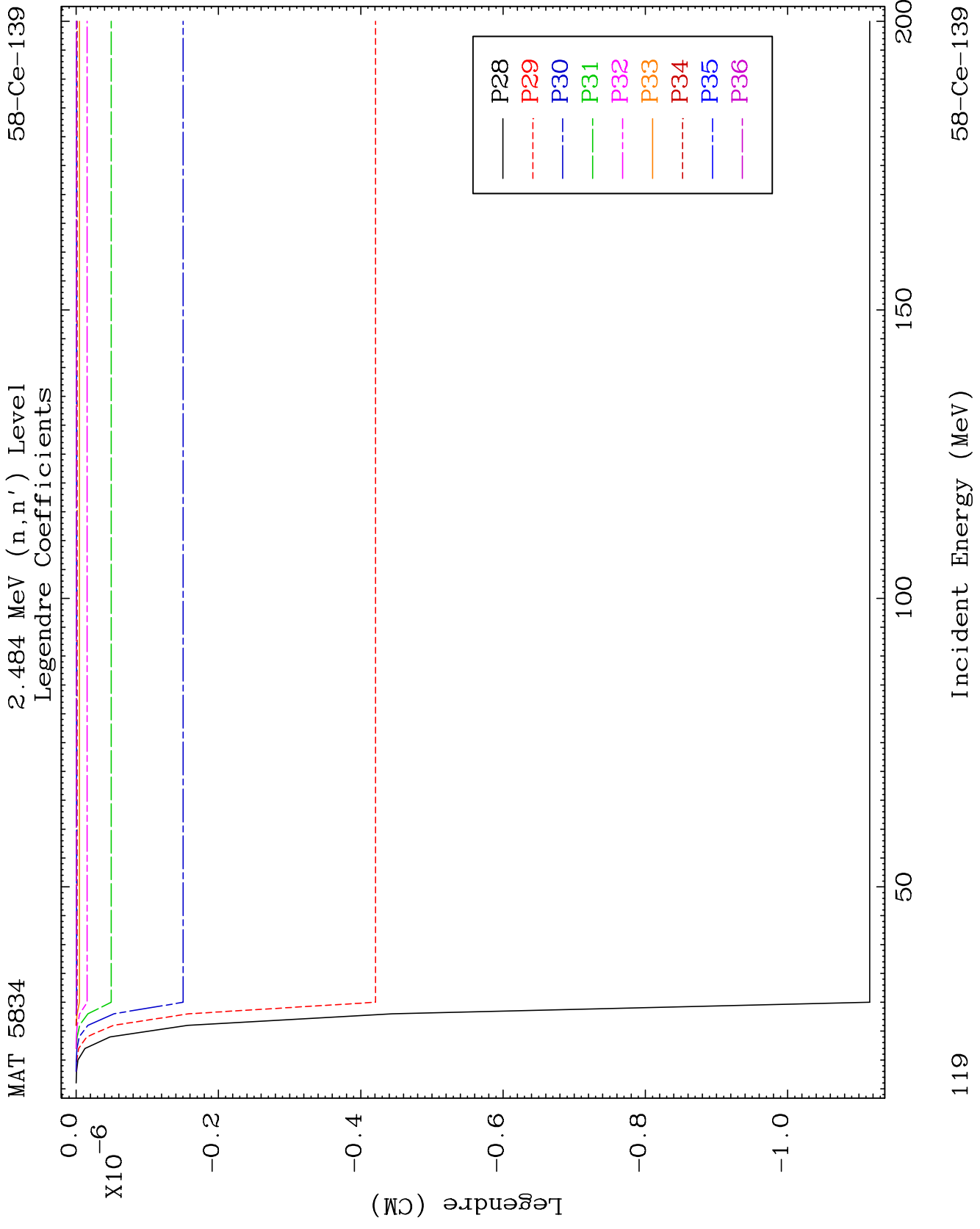
58-Ce-139

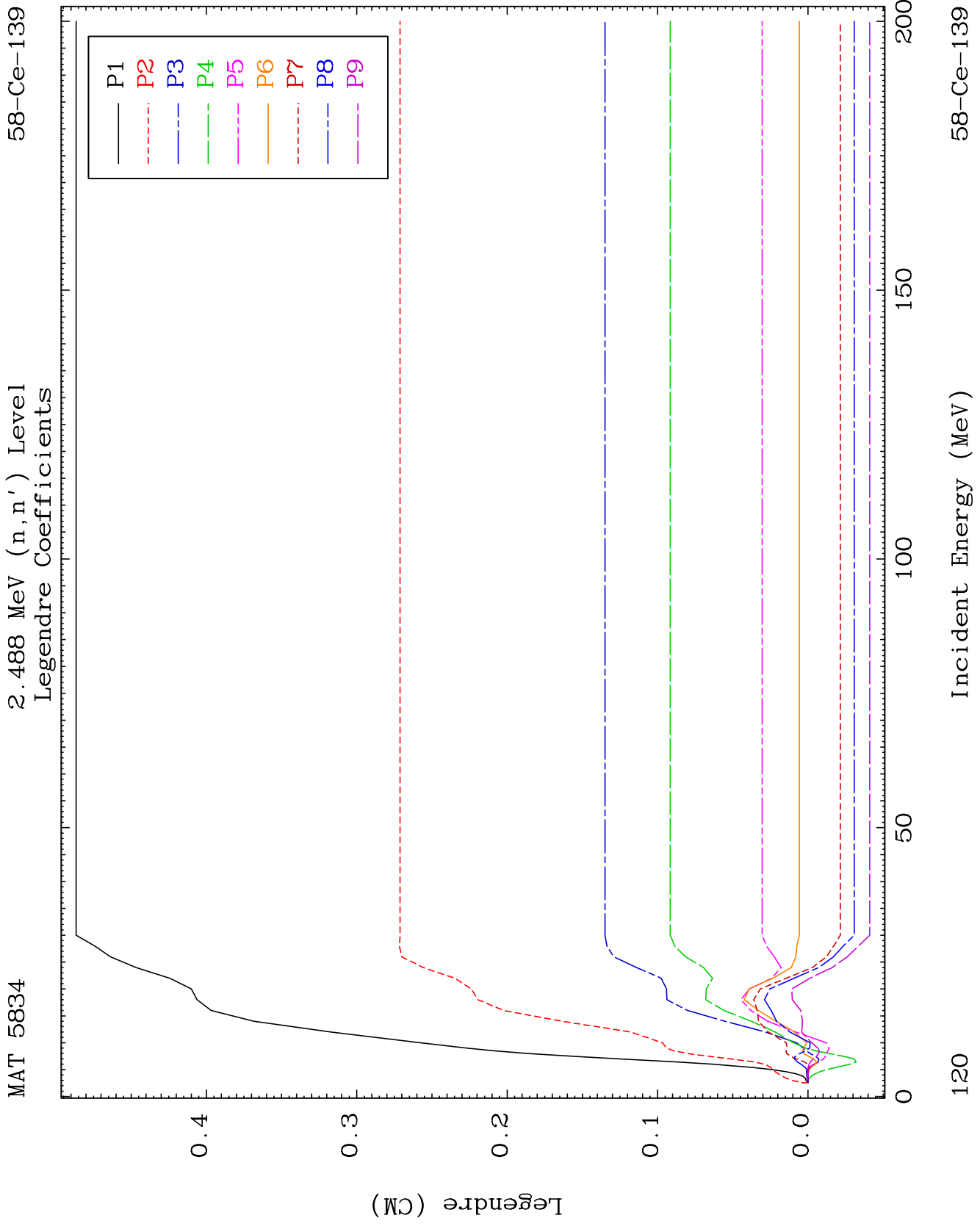


117

58-Ce-139



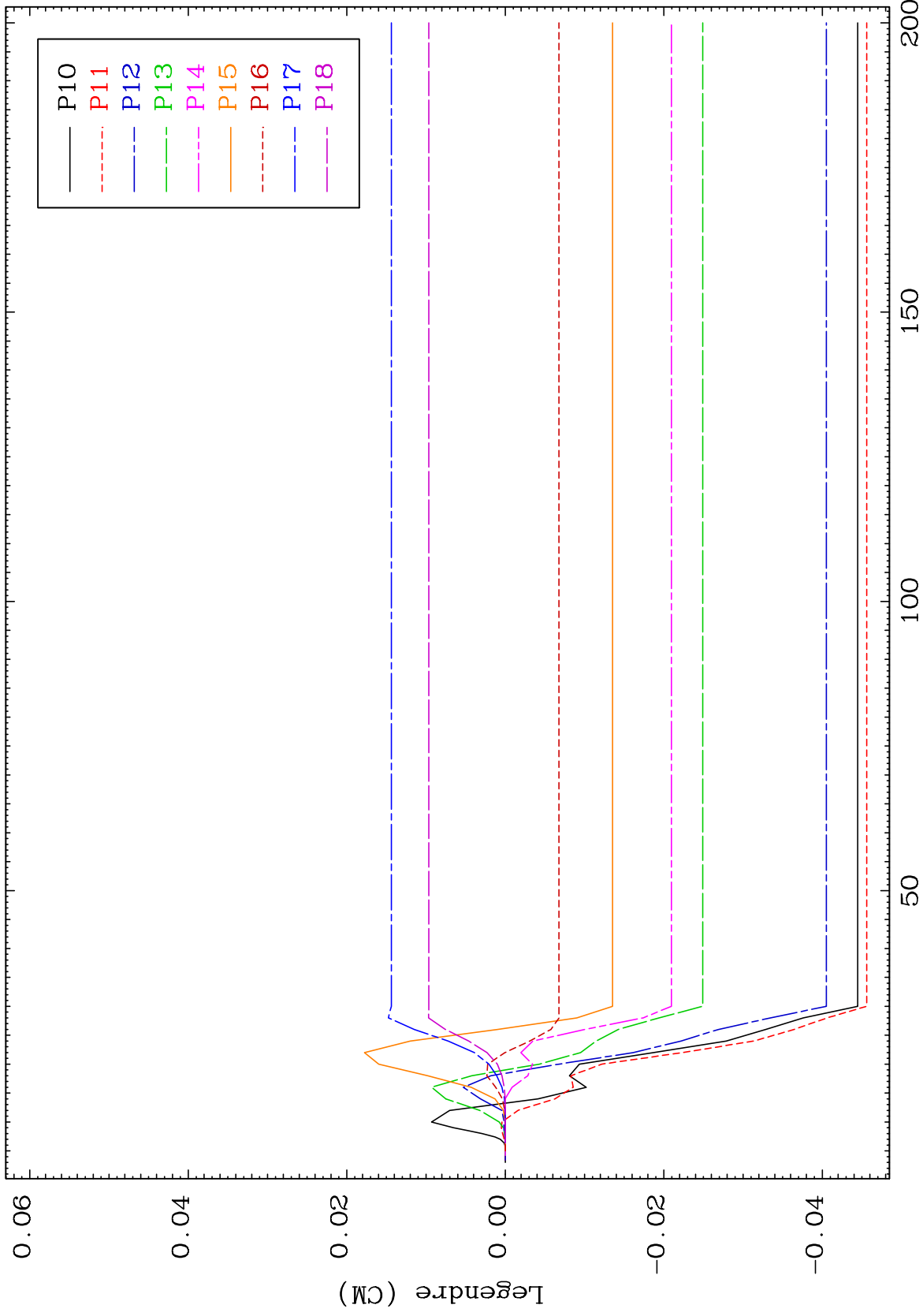




MAT 5834

2.488 MeV (n,n') Level
Legendre Coefficients

58-Ce-139



121

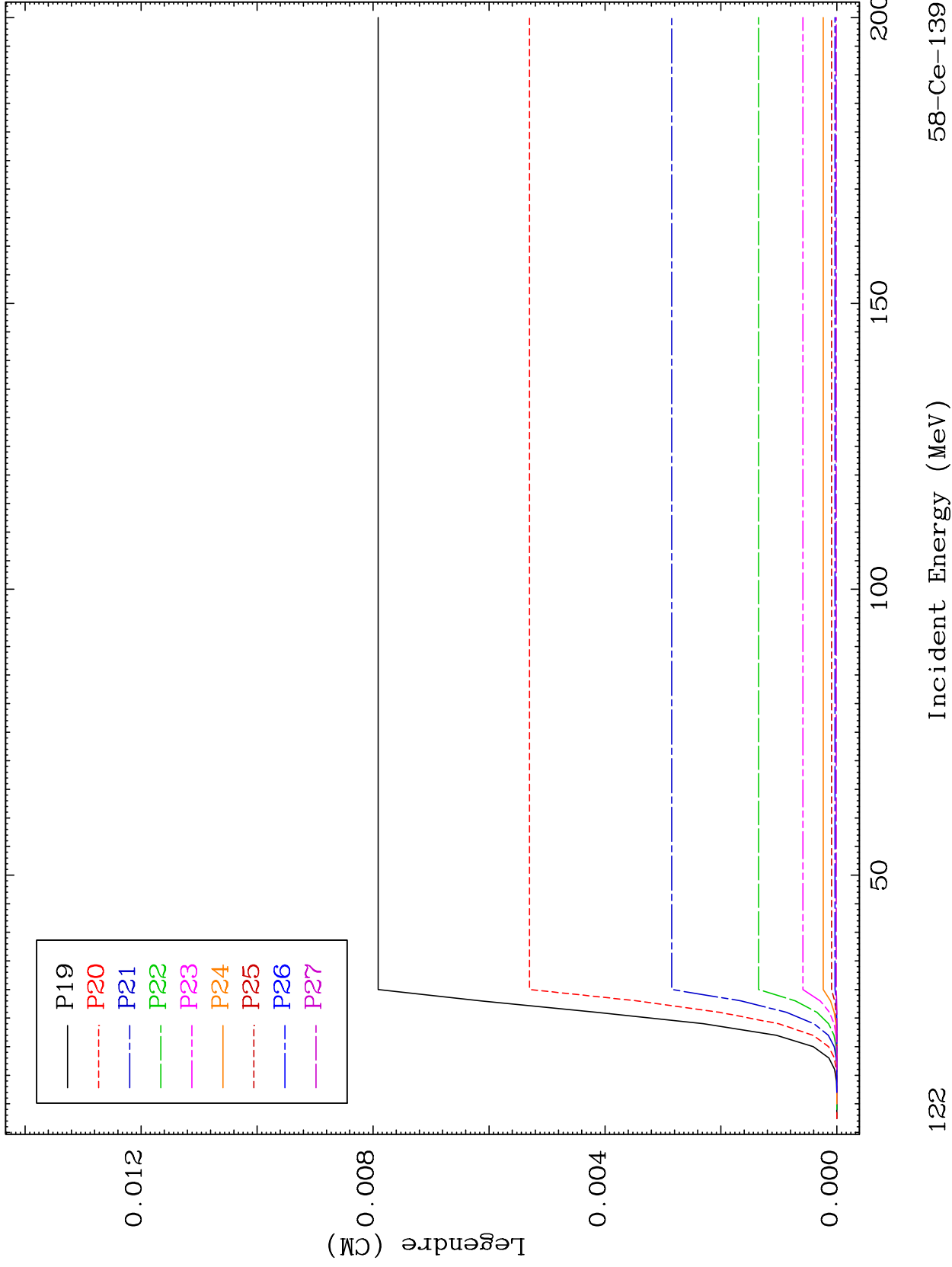
Incident Energy (MeV)

58-Ce-139

MAT 5834

2.488 MeV (n,n') Level
Legendre Coefficients

58-Ce-139



122

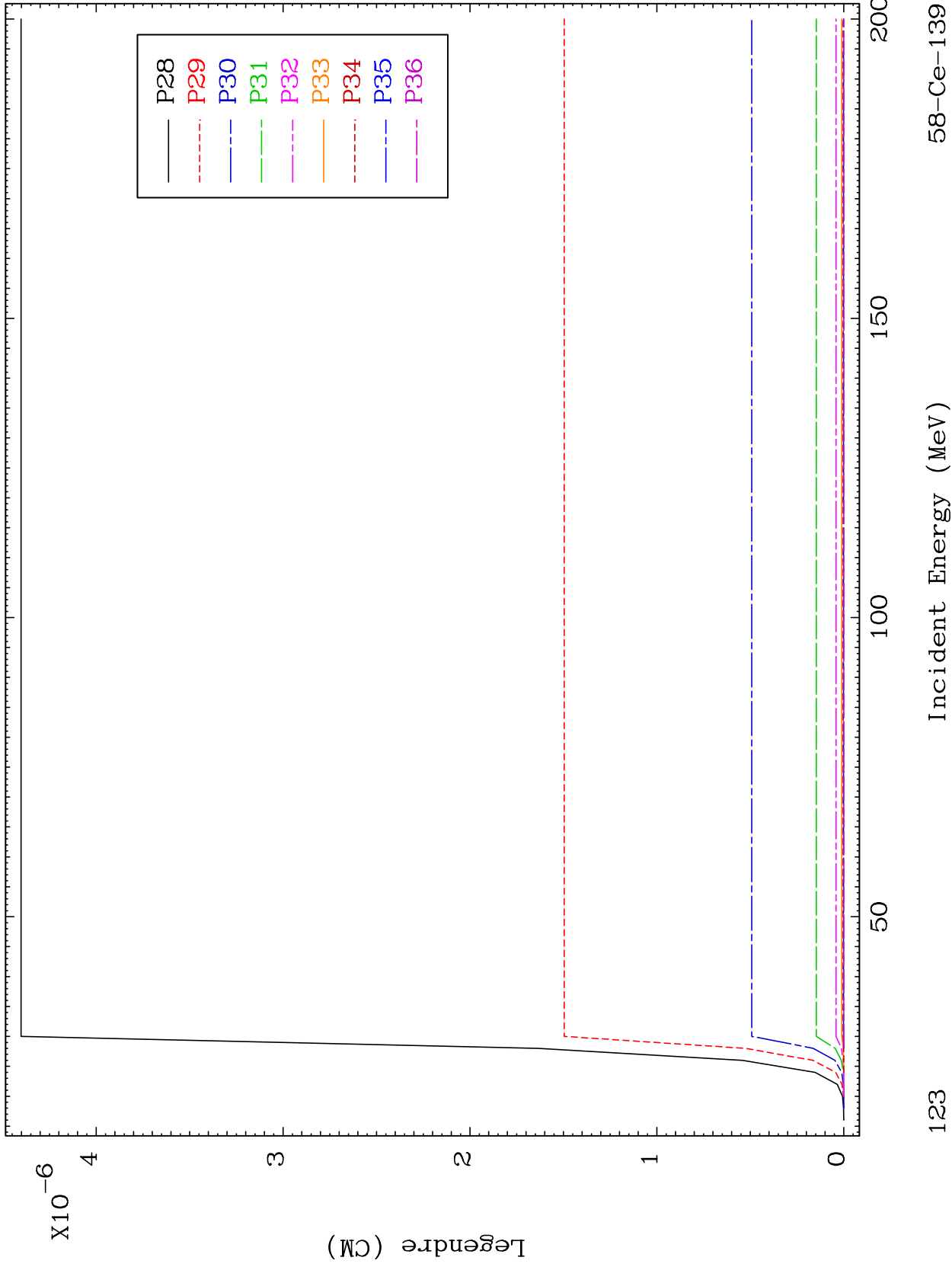
Incident Energy (MeV)

58-Ce-139

MAT 5834

2.488 MeV (n,n') Level
Legendre Coefficients

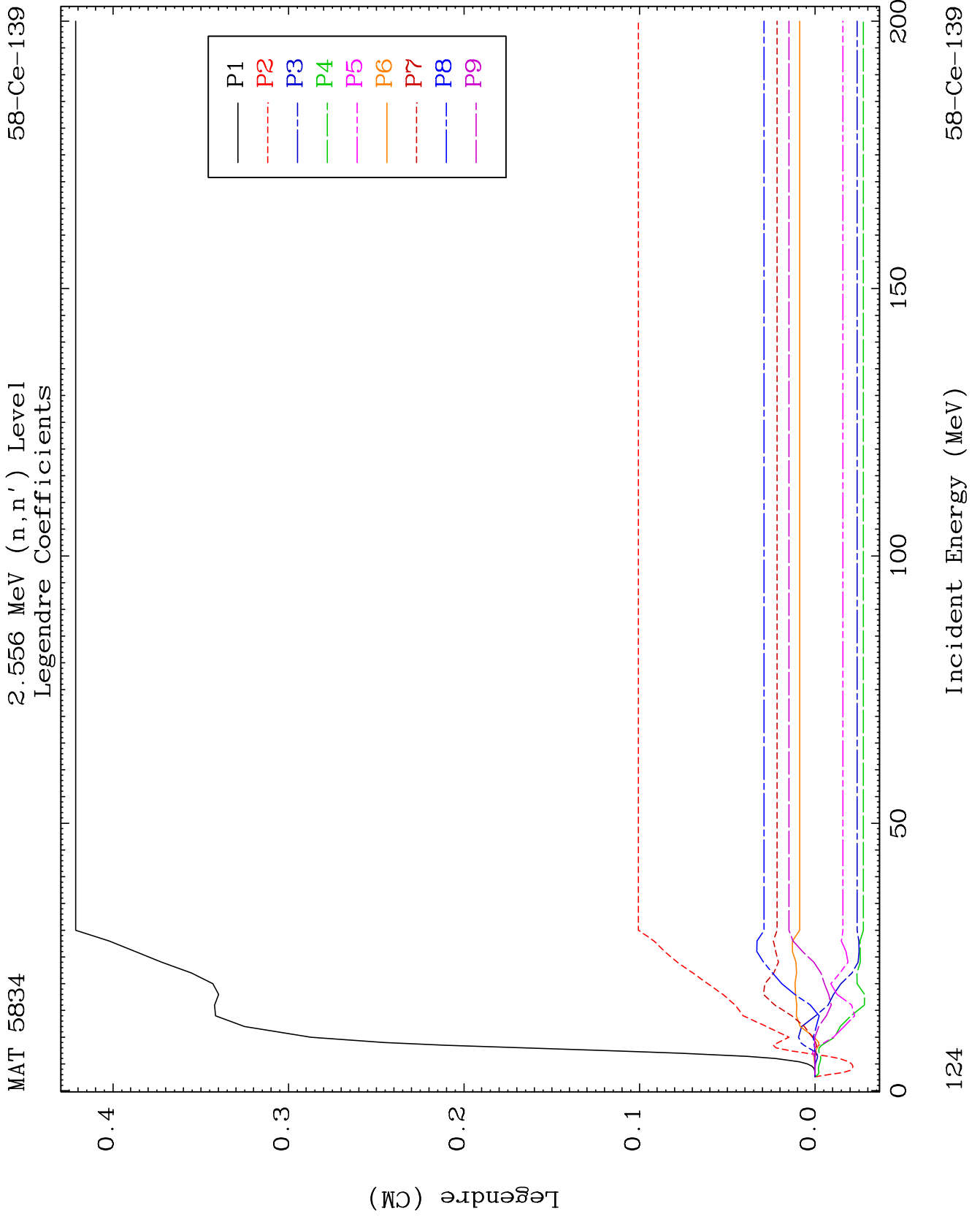
58-Ce-139



123

Incident Energy (MeV)

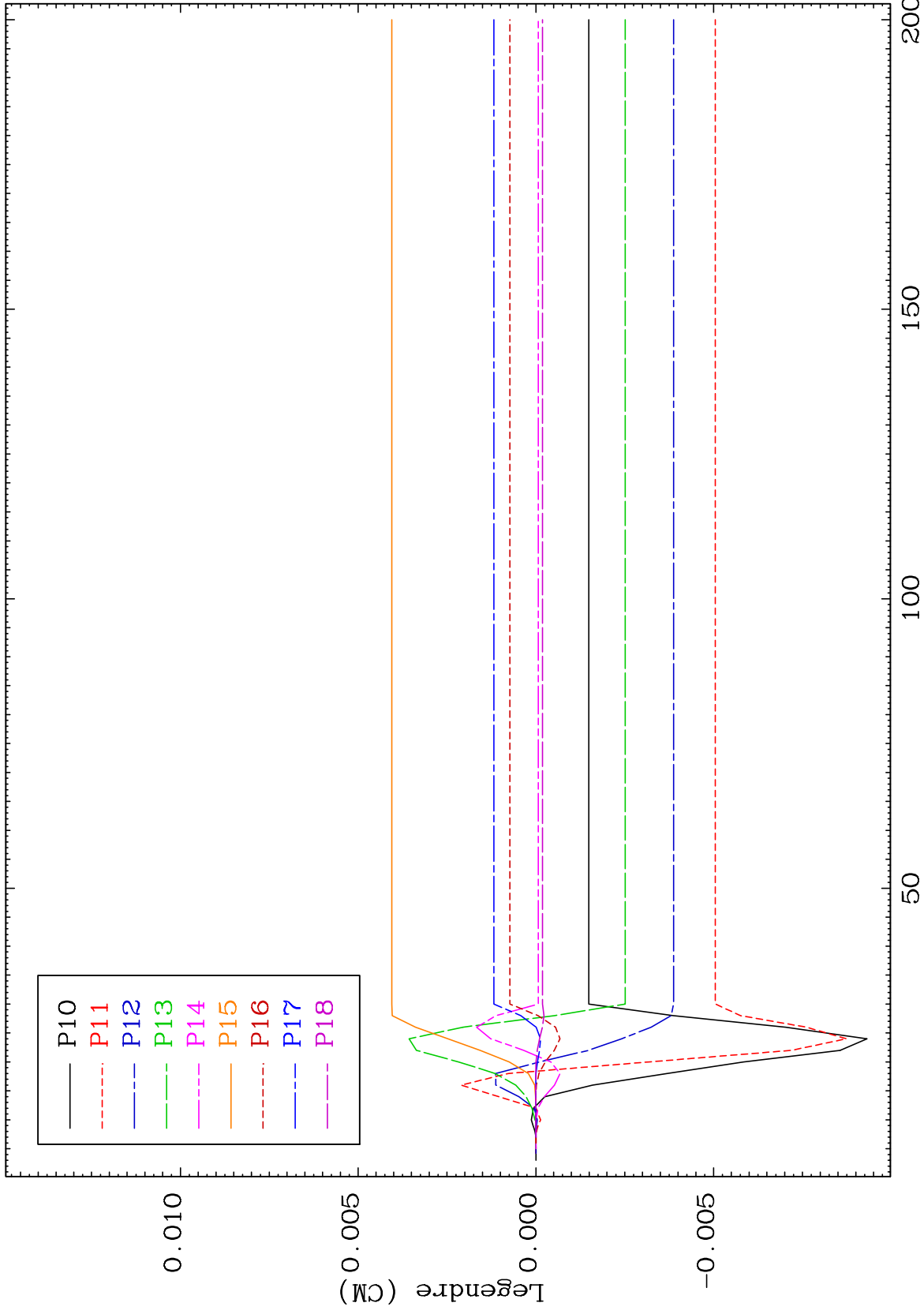
58-Ce-139



MAT 5834

2.556 MeV (n, n') Level
Legendre Coefficients

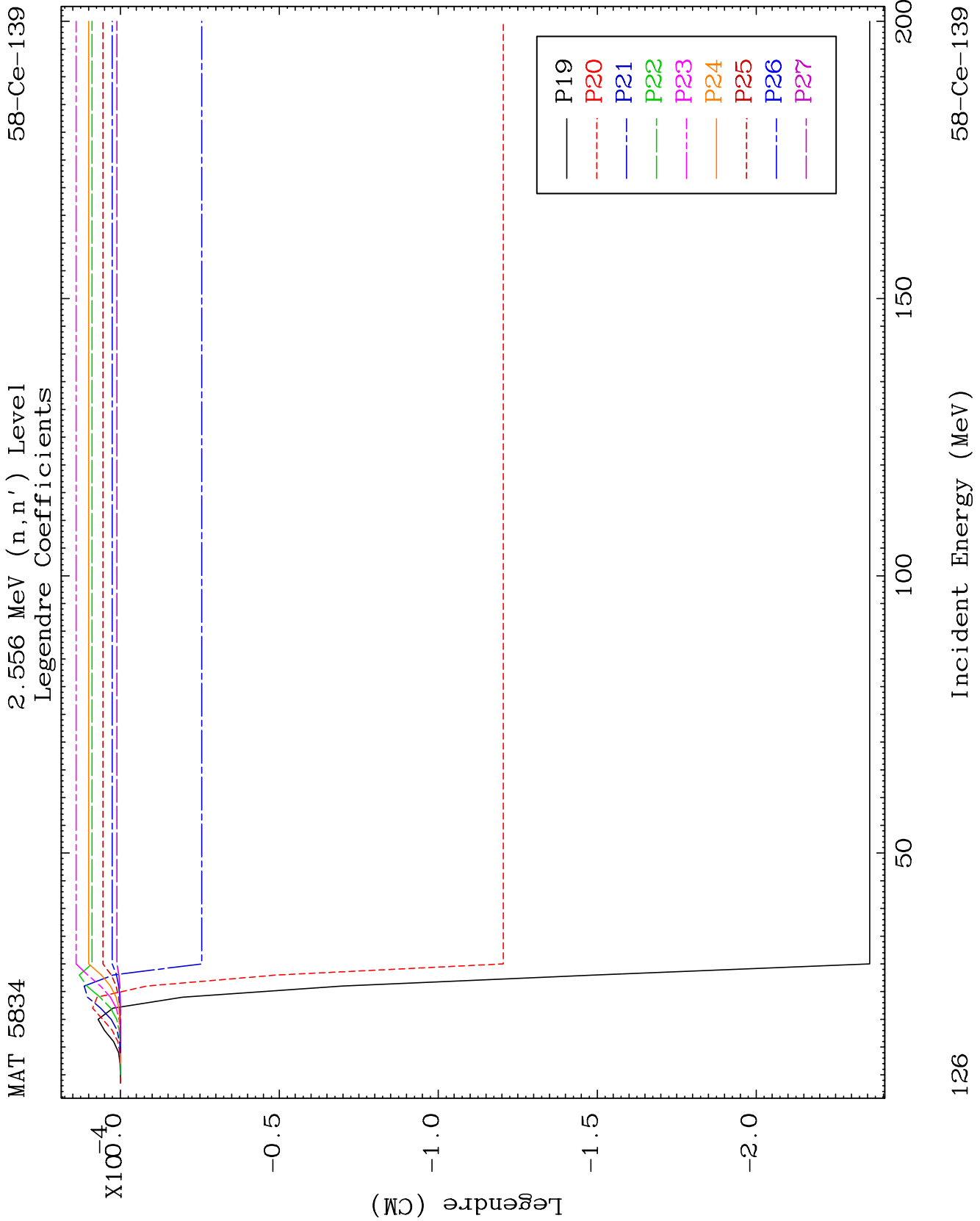
58-Ce-139



125

Incident Energy (MeV)

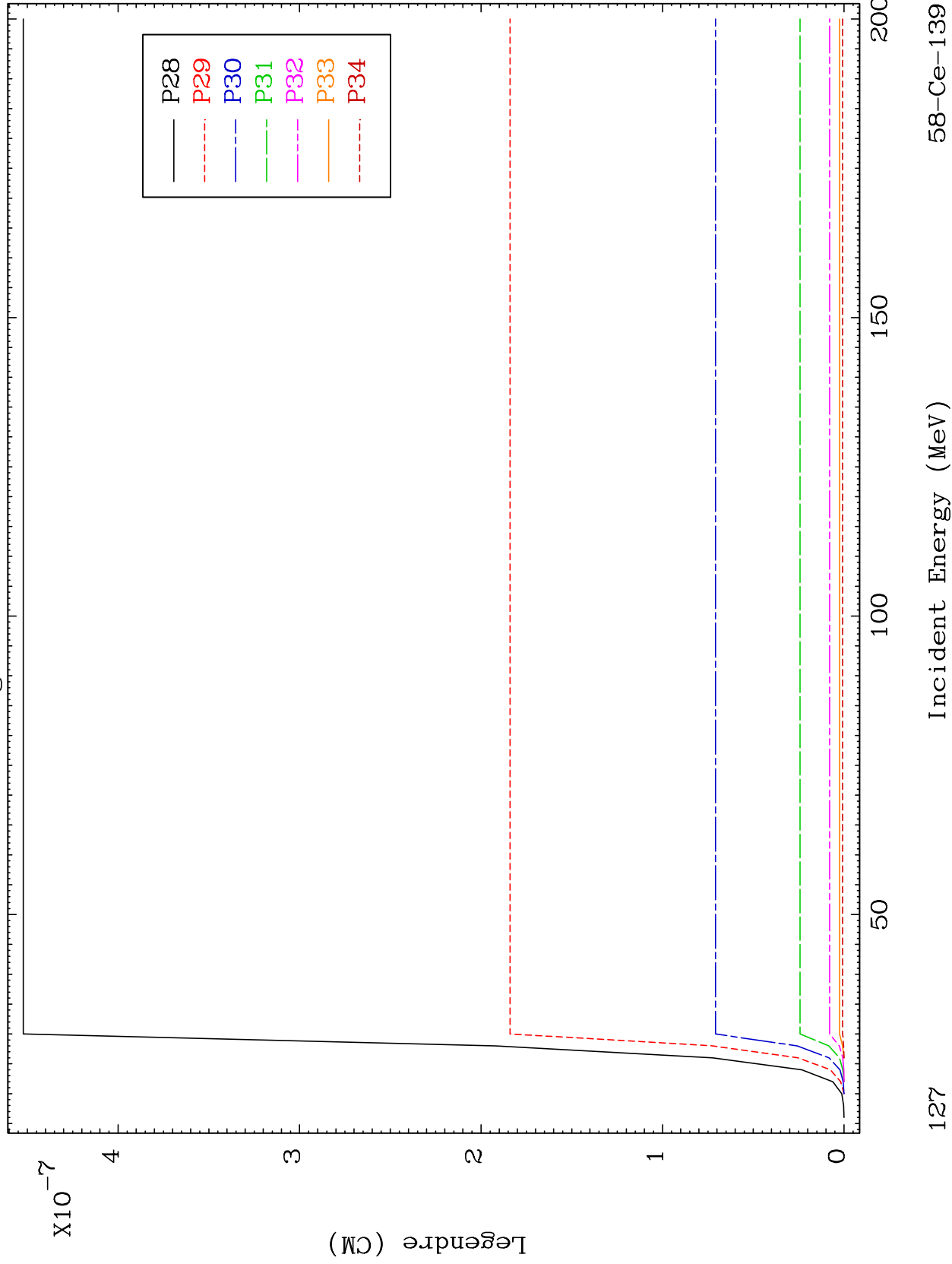
58-Ce-139



MAT 5834

2.556 MeV (n,n') Level
Legendre Coefficients

58-Ce-139



127

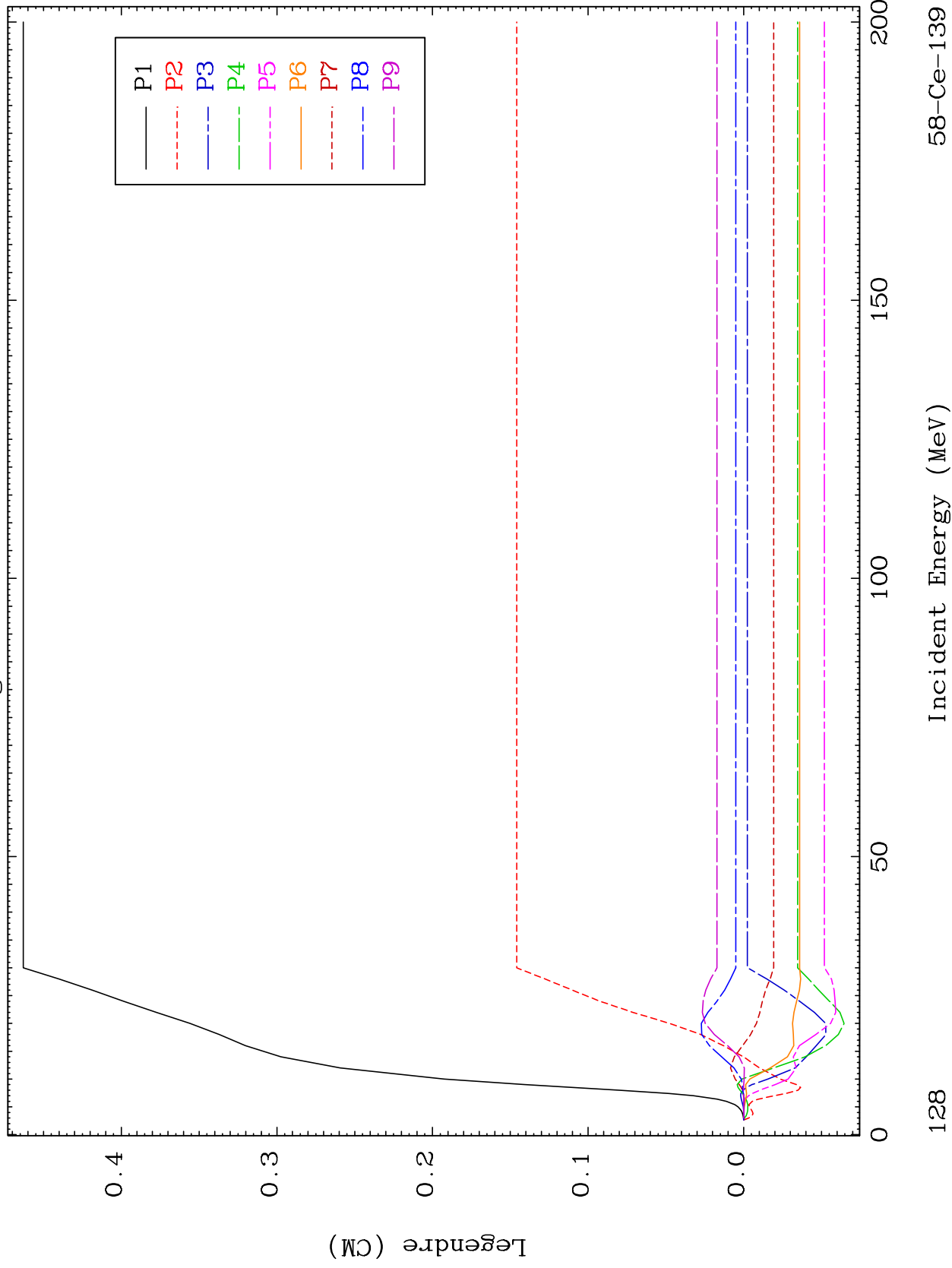
Incident Energy (MeV)

58-Ce-139

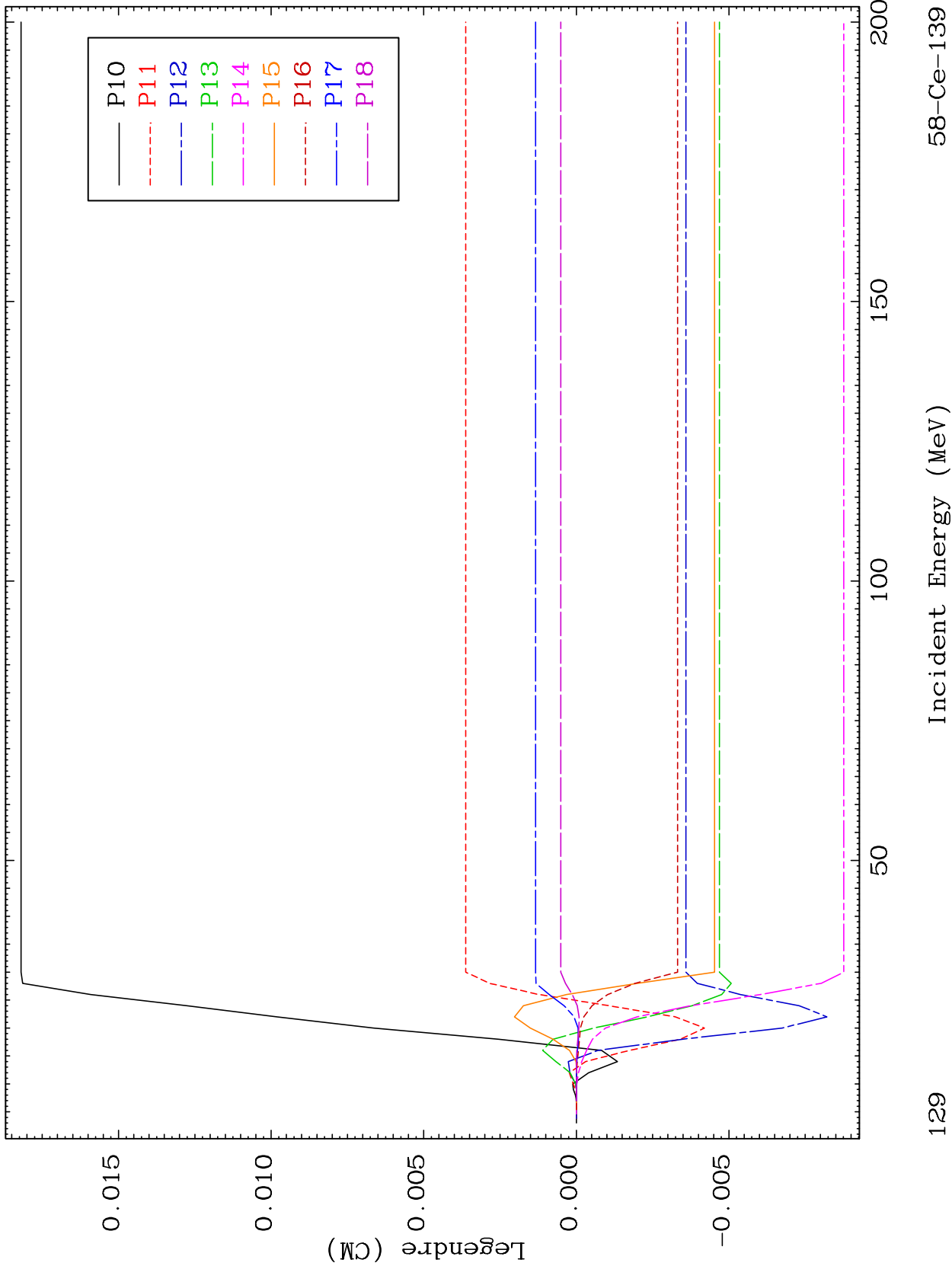
MAT 5834

2.610 MeV (n,n') Level
Legendre Coefficients

58-Ce-139



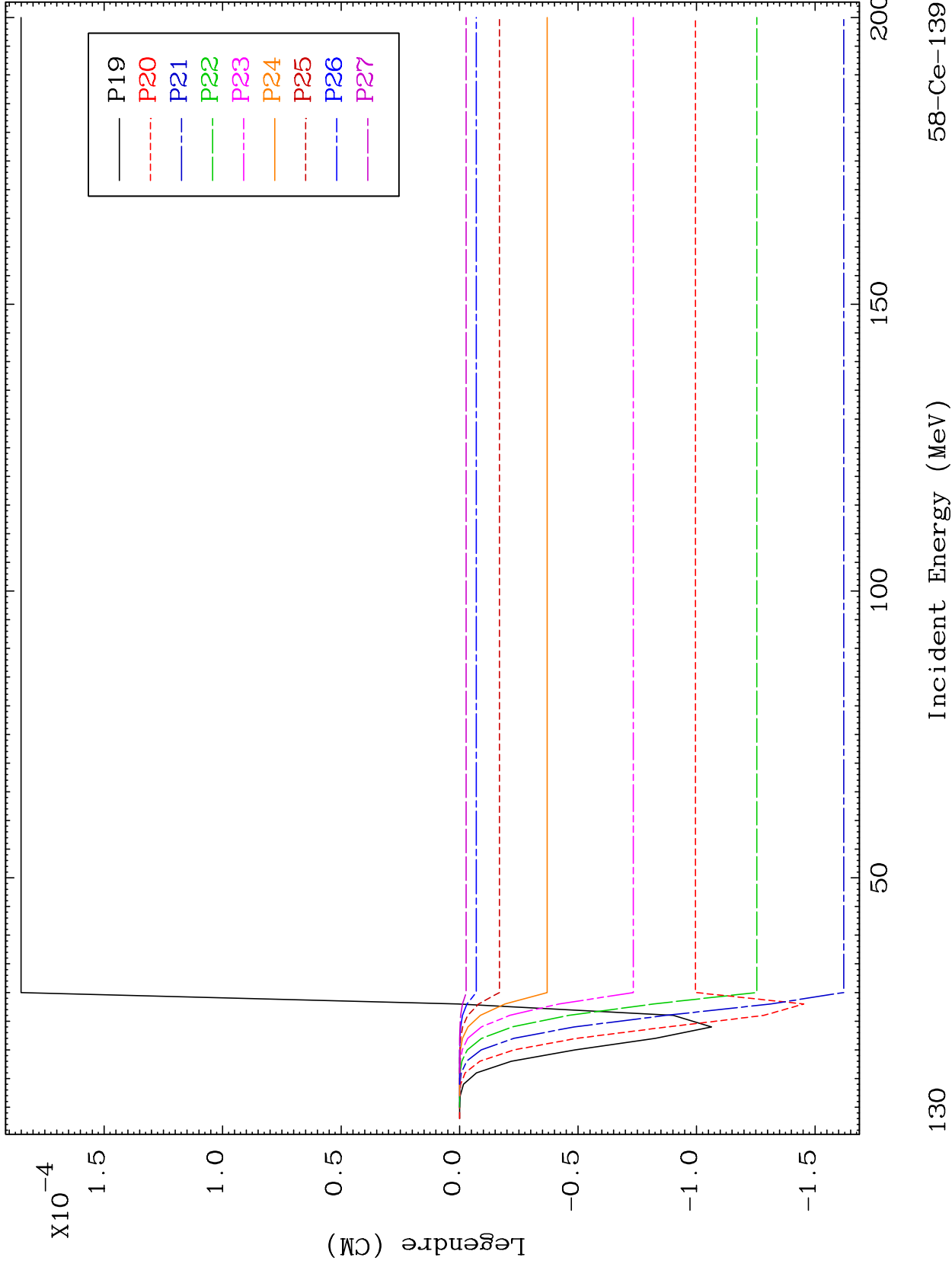
58-Ce-139



MAT 5834

2.610 MeV (n,n') Level
Legendre Coefficients

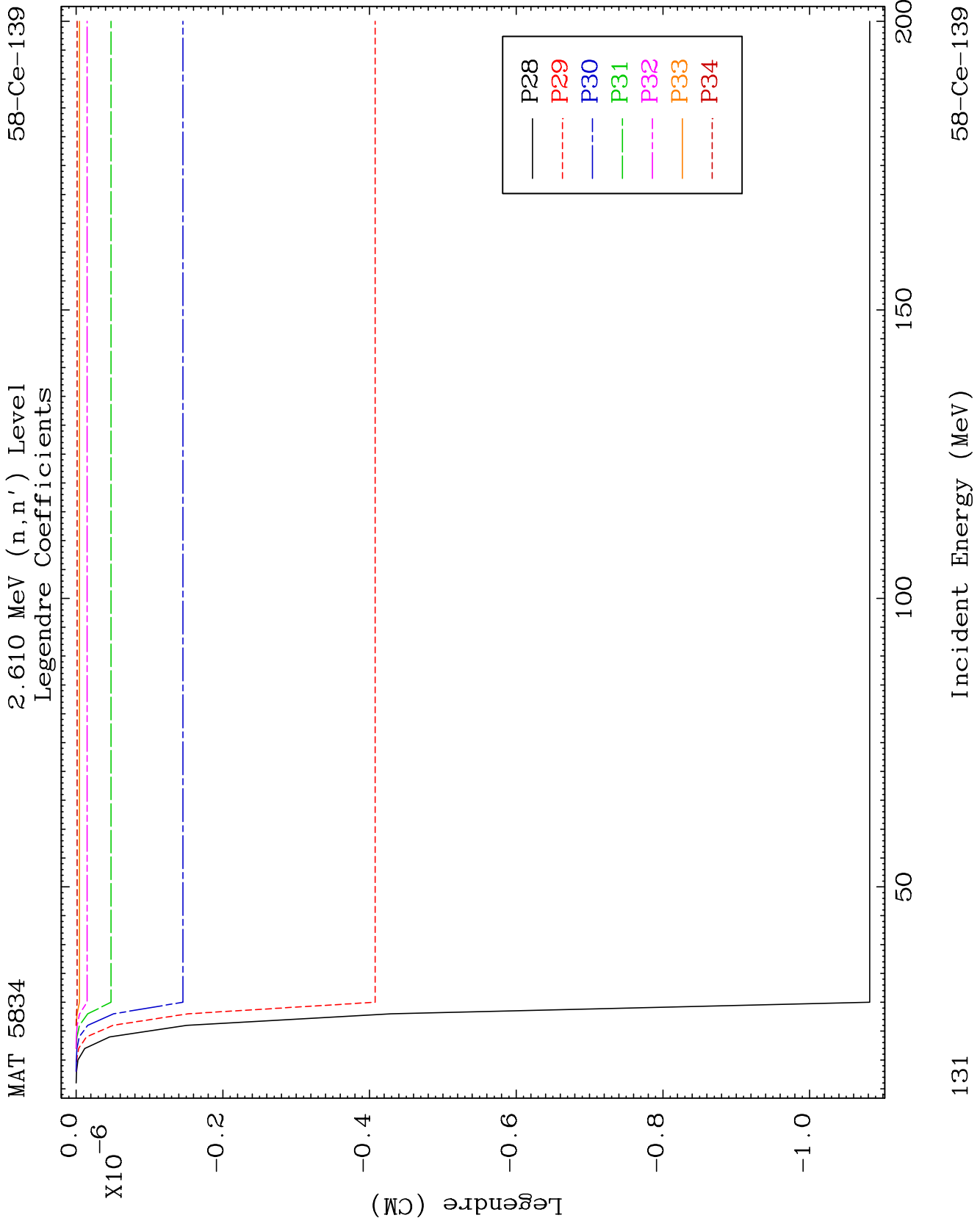
58-Ce-139



130

Incident Energy (MeV)

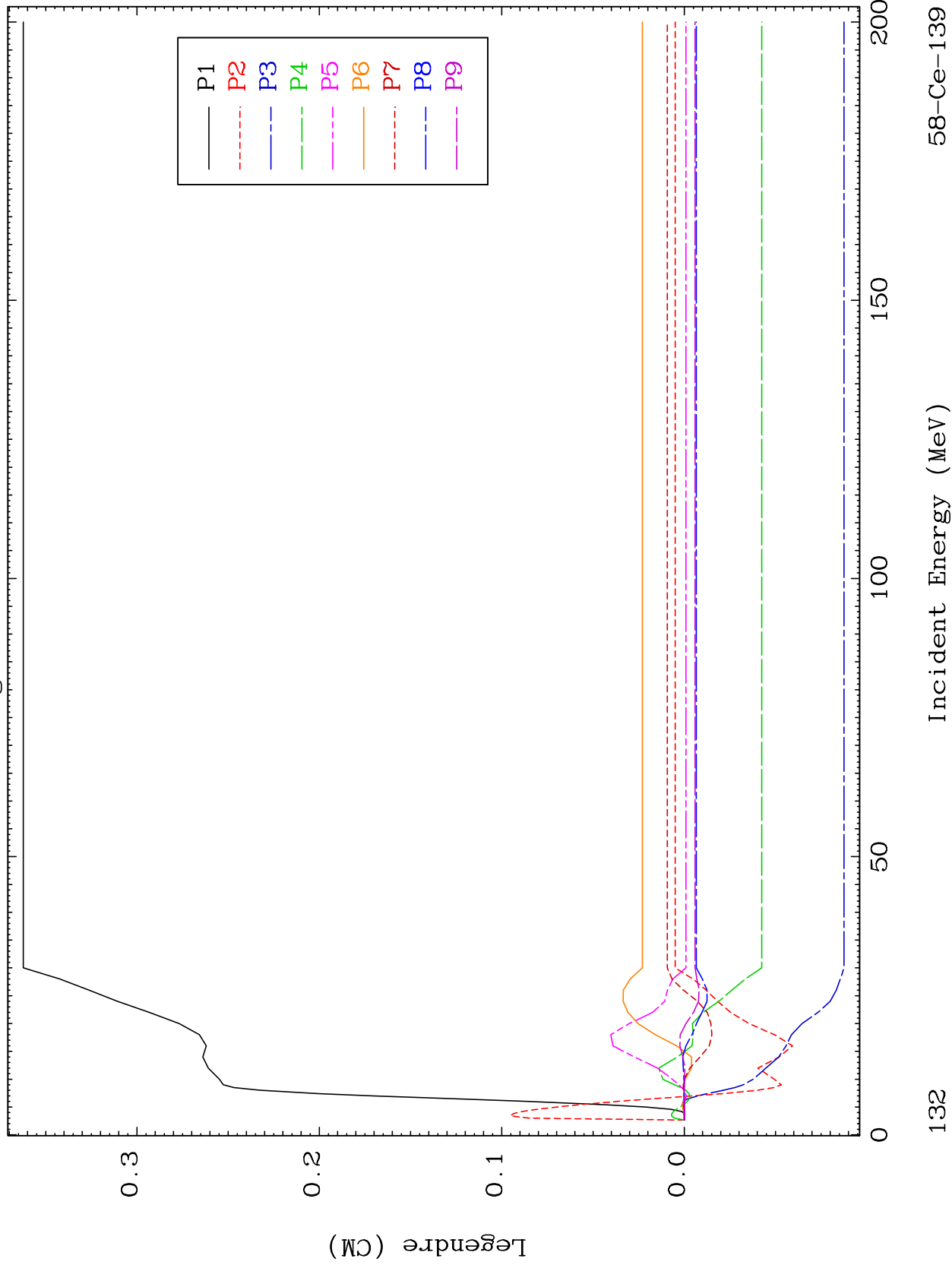
58-Ce-139



MAT 5834

2.631 MeV (n,n') Level
Legendre Coefficients

58-Ce-139



58-Ce-139

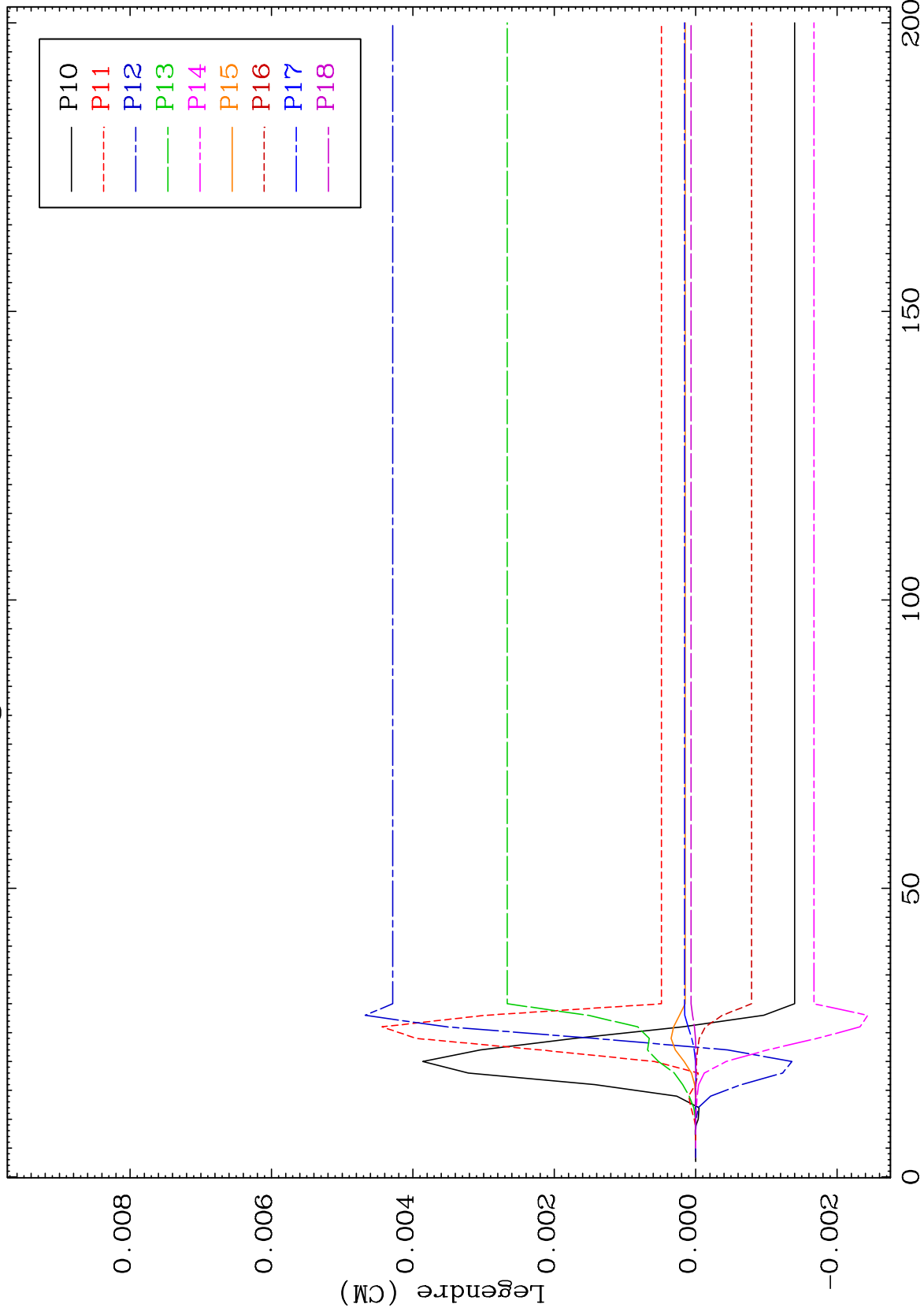
Incident Energy (MeV)

132

MAT 5834

2.631 MeV (n,n') Level
Legendre Coefficients

58-Ce-139



133

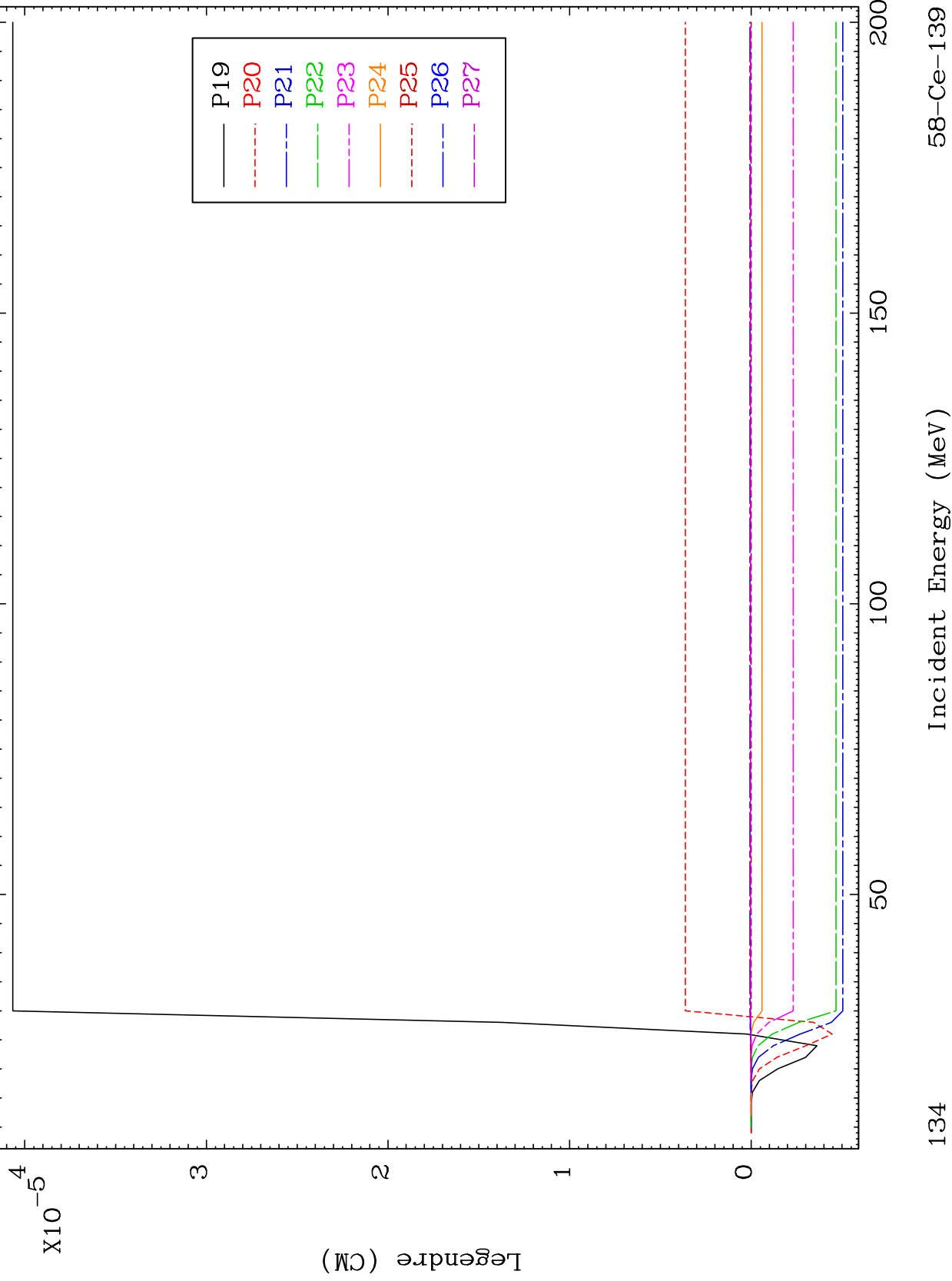
Incident Energy (MeV)

58-Ce-139

MAT 5834

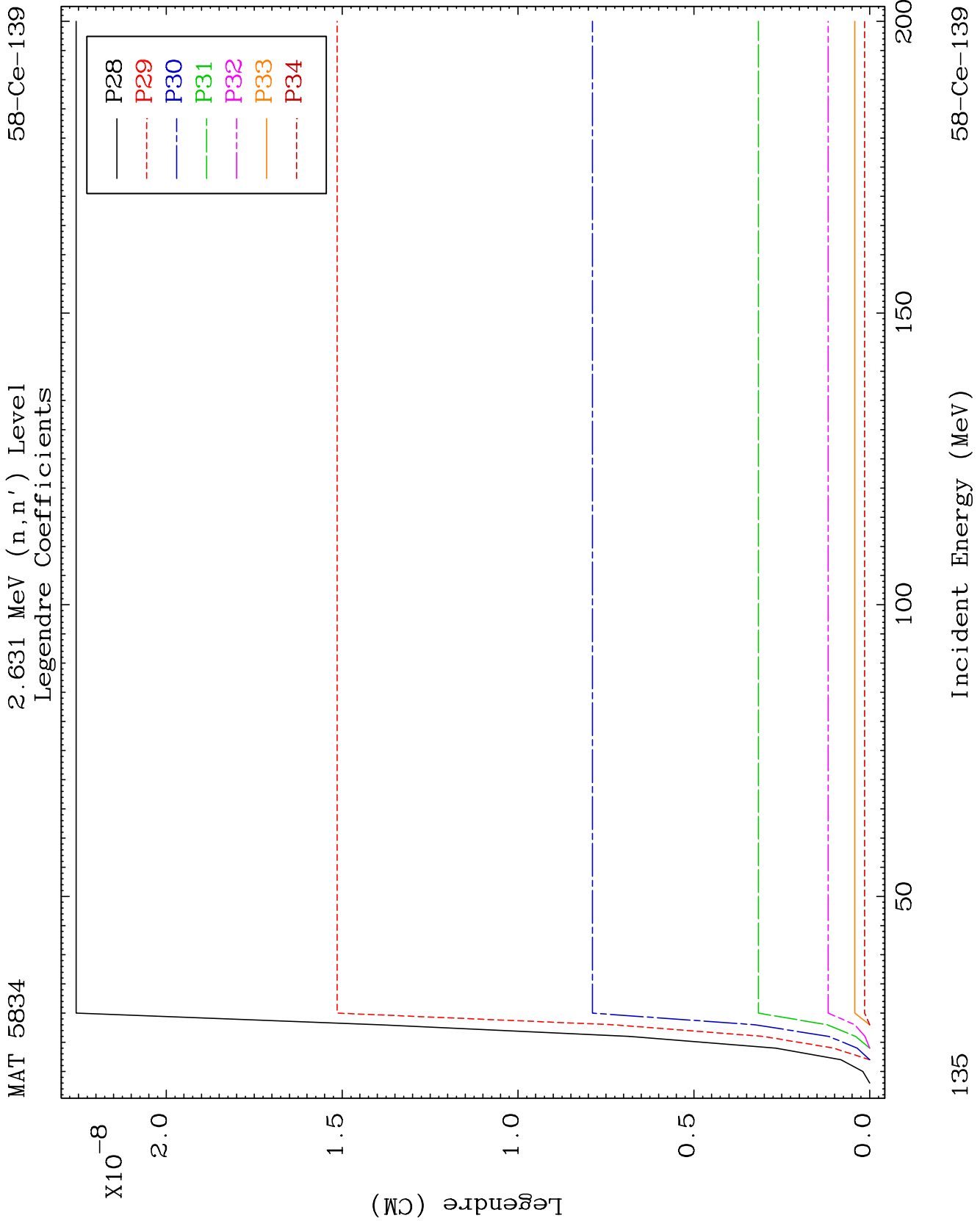
2.631 MeV (n, n') Level
Legendre Coefficients

58-Ce-139



134

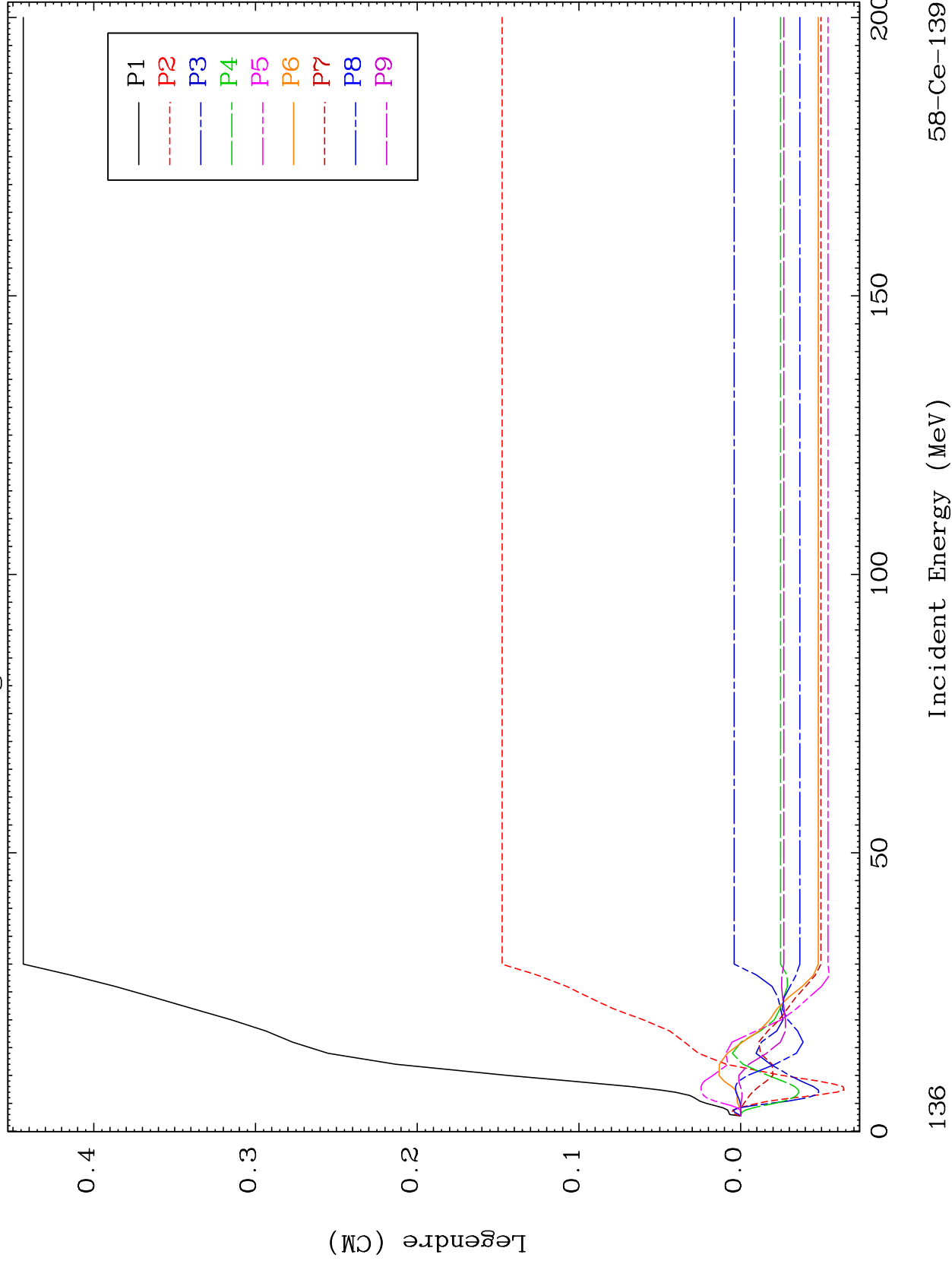
58-Ce-139



MAT 5834

2.701 MeV (n,n') Level
Legendre Coefficients

58-Ce-139



136

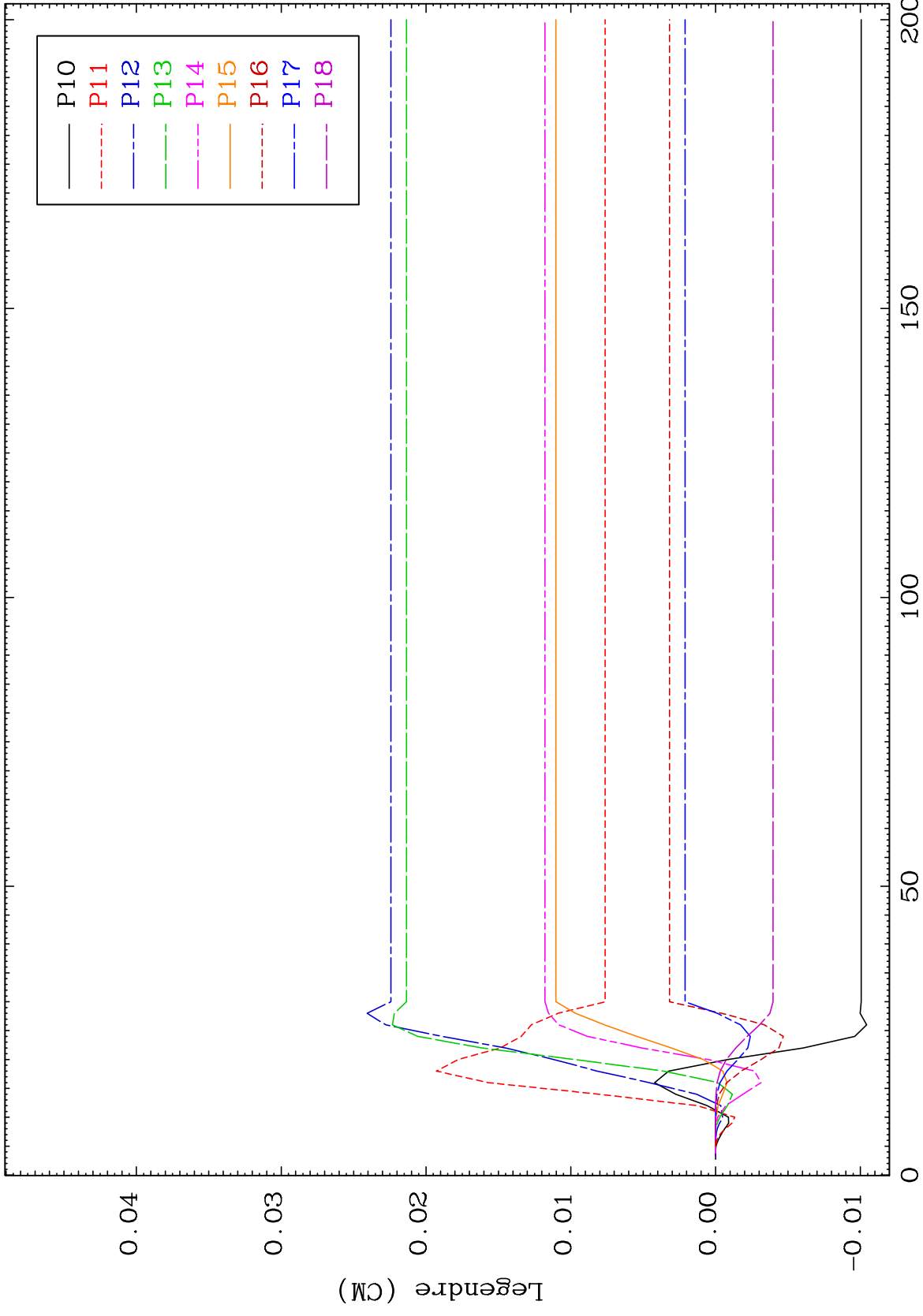
Incident Energy (MeV)

58-Ce-139

MAT 5834

2.701 MeV (n,n') Level
Legendre Coefficients

58-Ce-139



137

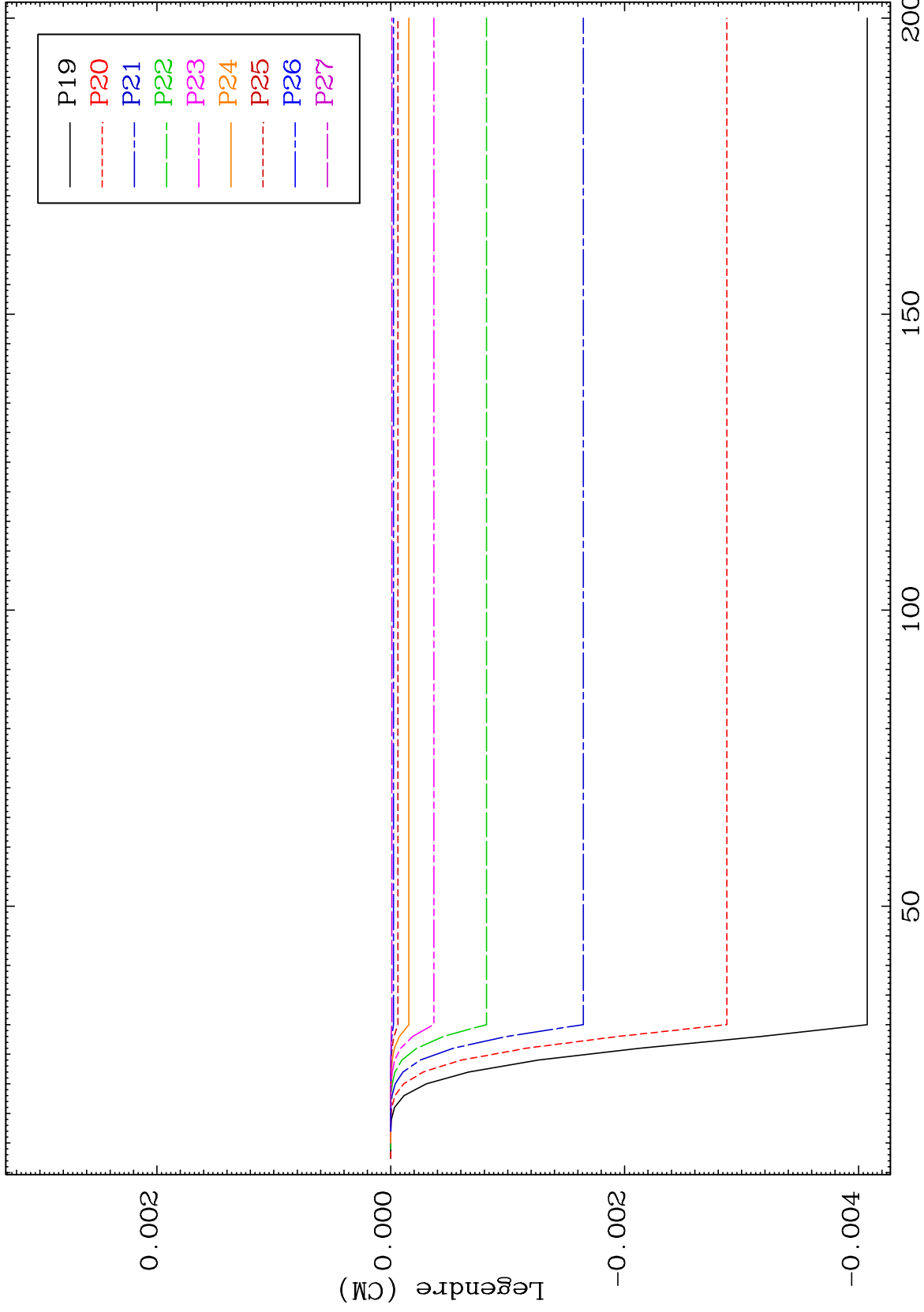
Incident Energy (MeV)

58-Ce-139

MAT 5834

2.701 MeV (n,n') Level
Legendre Coefficients

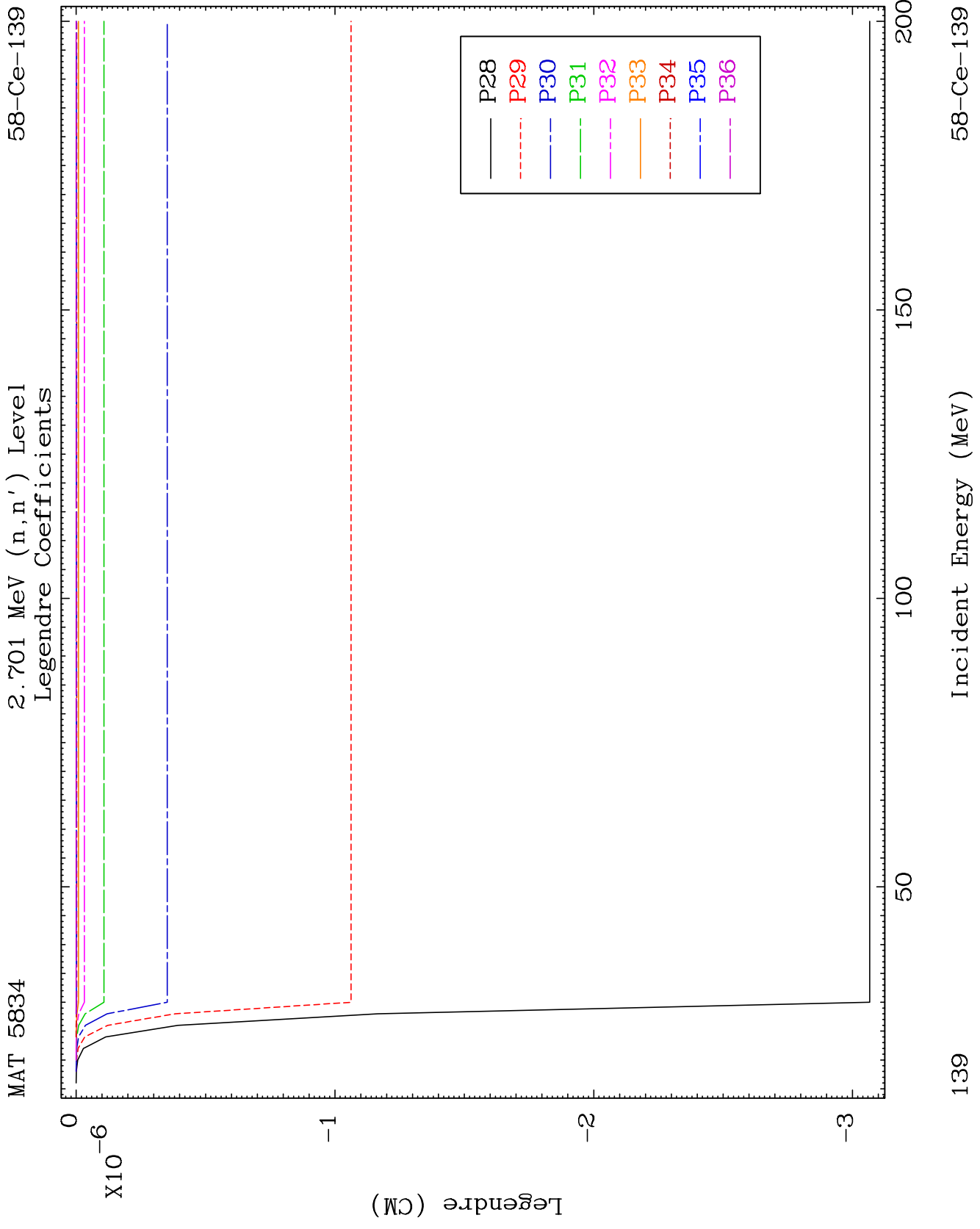
58-Ce-139



138

Incident Energy (MeV)

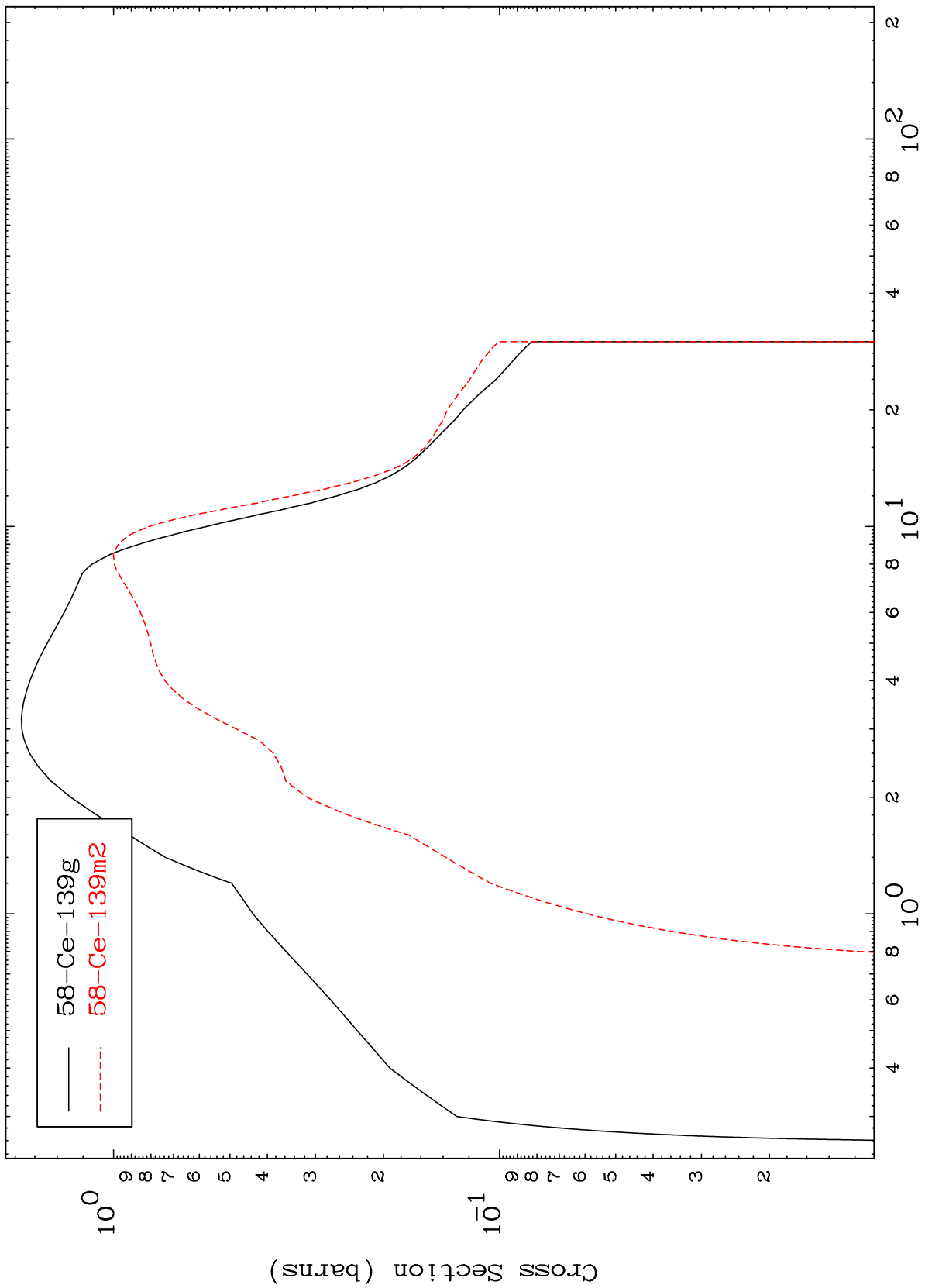
58-Ce-139



MAT 5834

58-Ce-139

Radionuclide Production Cross Section



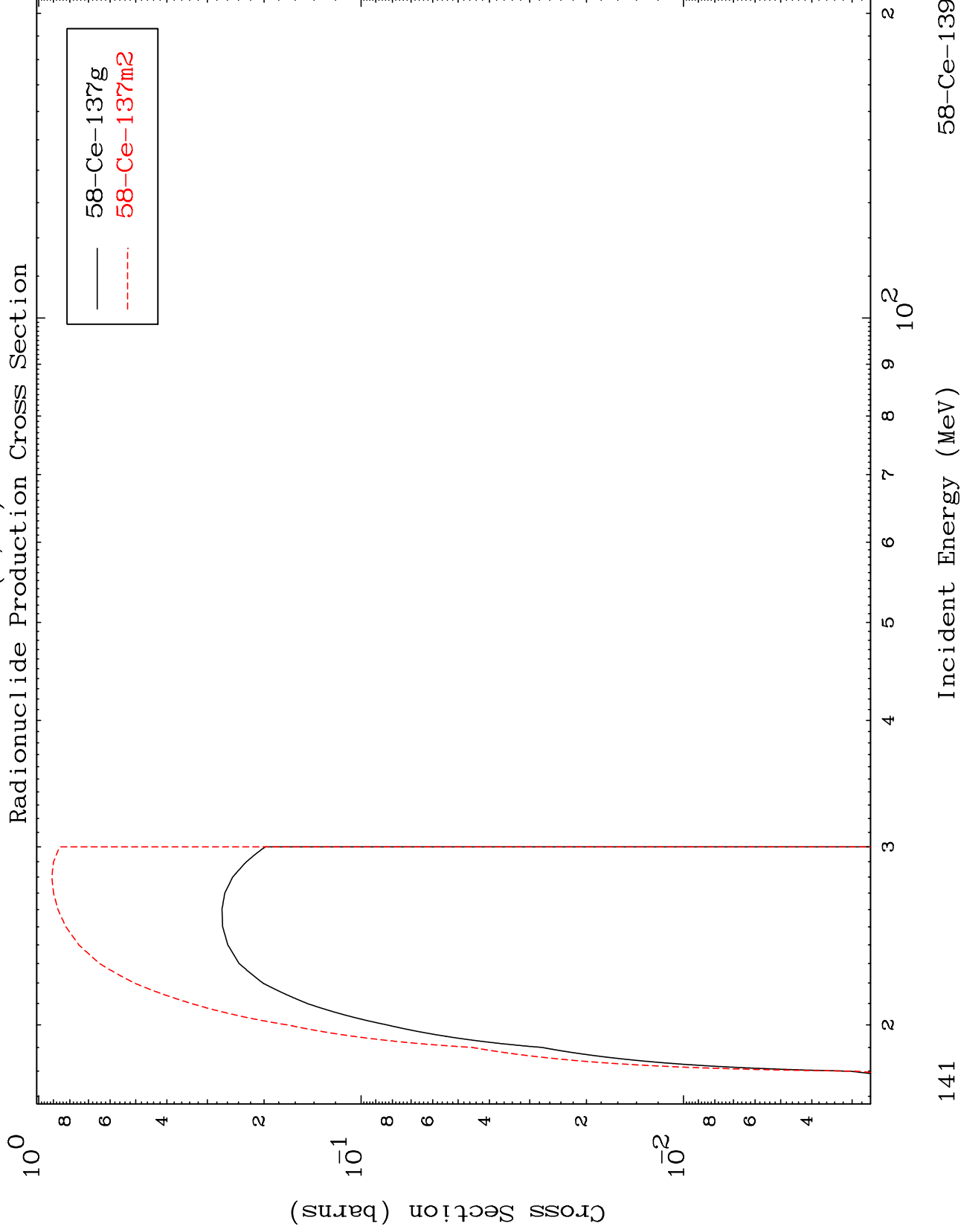
140

58-Ce-139

MAT 5834

(n,3n)

58-Ce-139



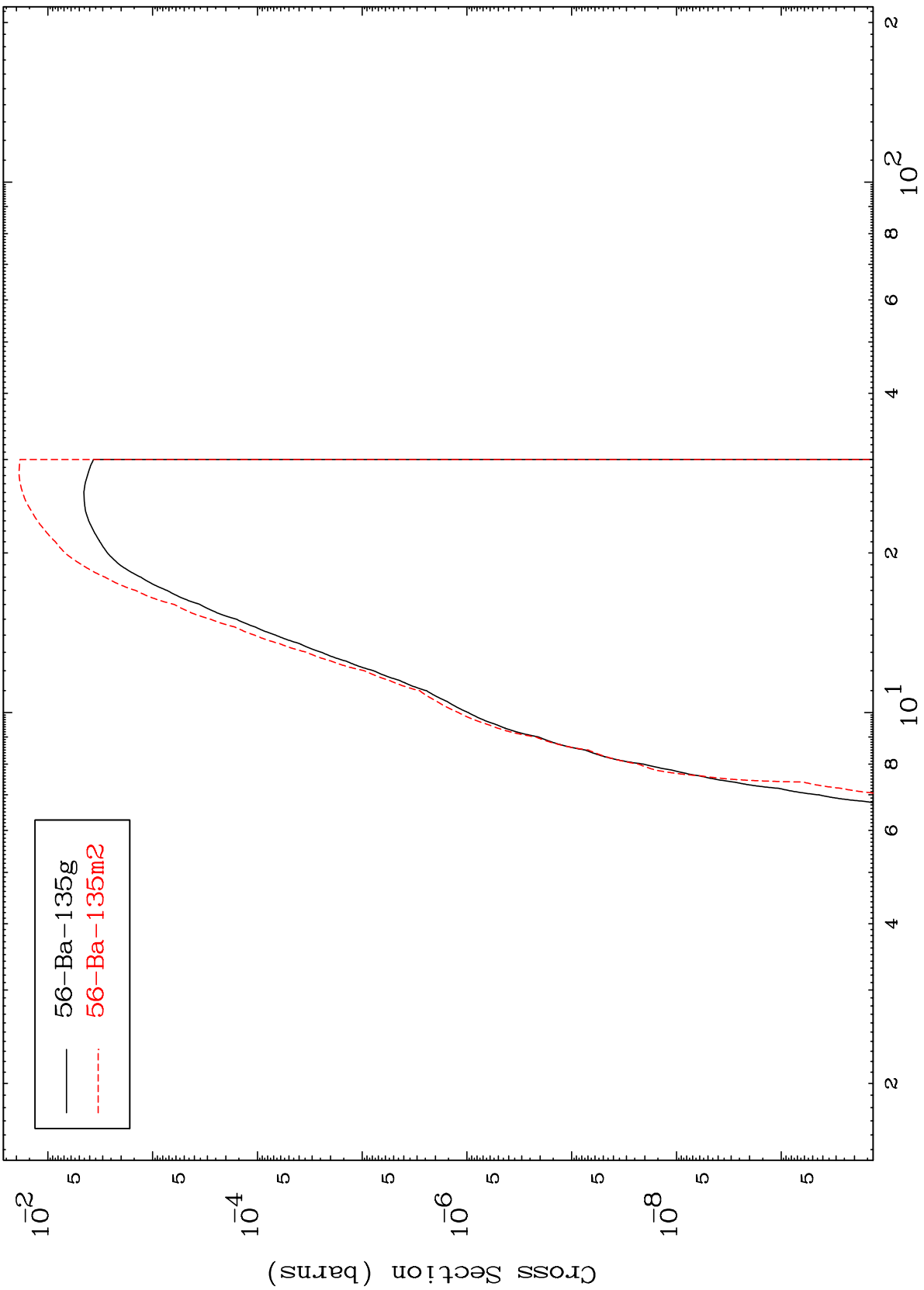
141

MAT 5834

(n,n') α

58-Ce-139

Radionuclide Production Cross Section



— 56-Ba-135g
- - - 56-Ba-135m2

142

Incident Energy (MeV)

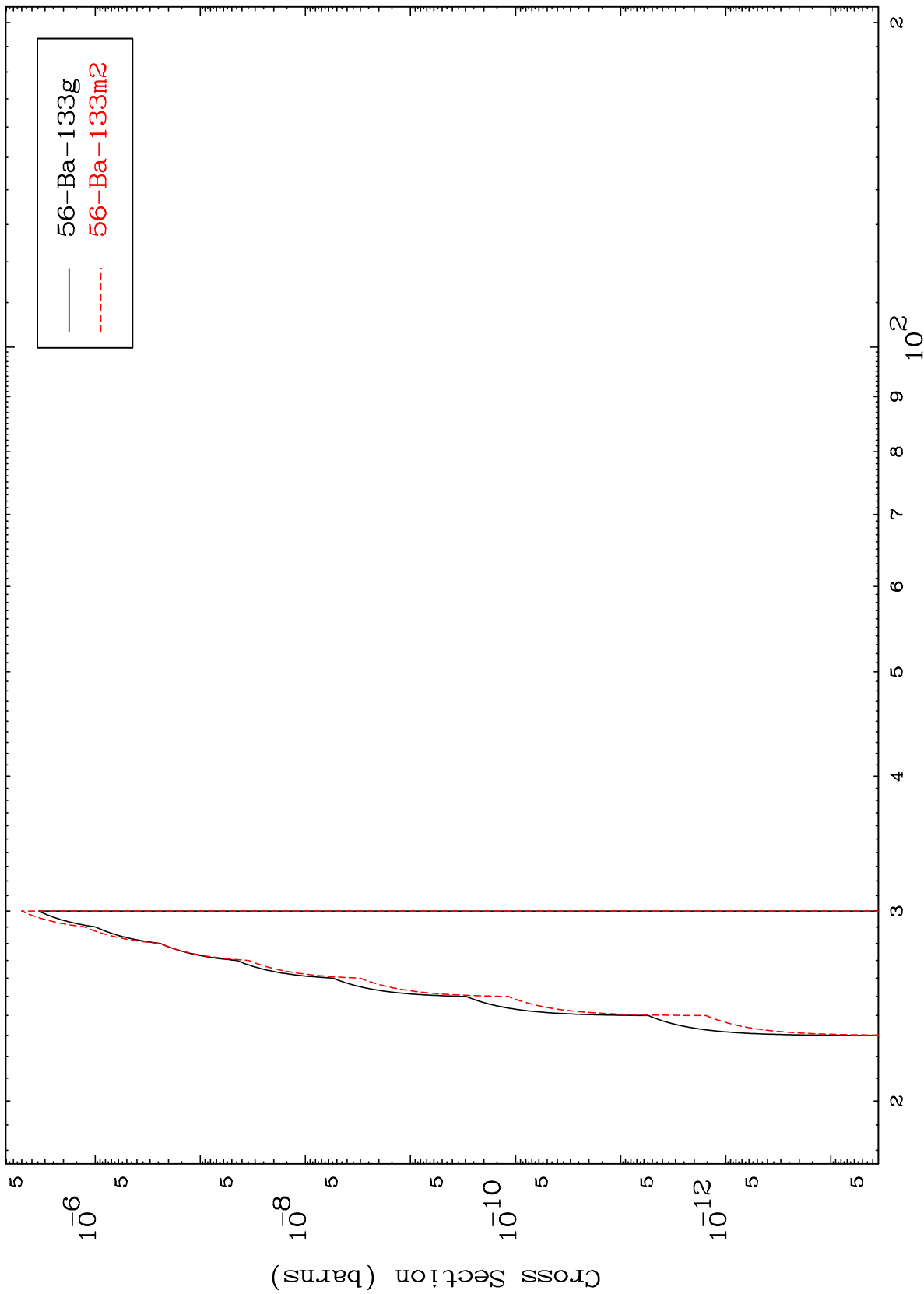
58-Ce-139

MAT 5834

(n,3n) α

58-Ce-139

Radionuclide Production Cross Section



143

Incident Energy (MeV)

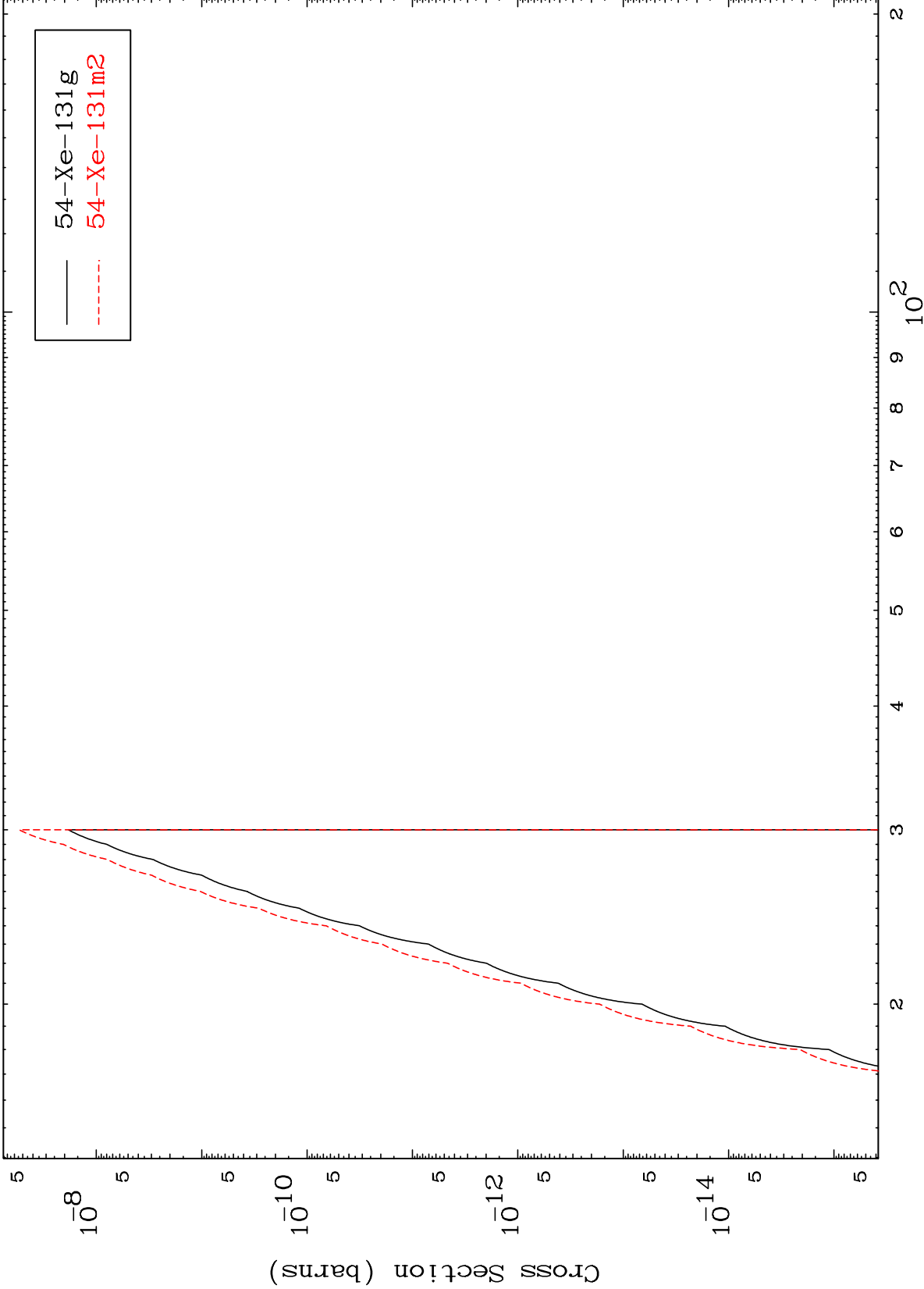
58-Ce-139

MAT 5834

(n,n') 2α

58-Ce-139

Radionuclide Production Cross Section



144

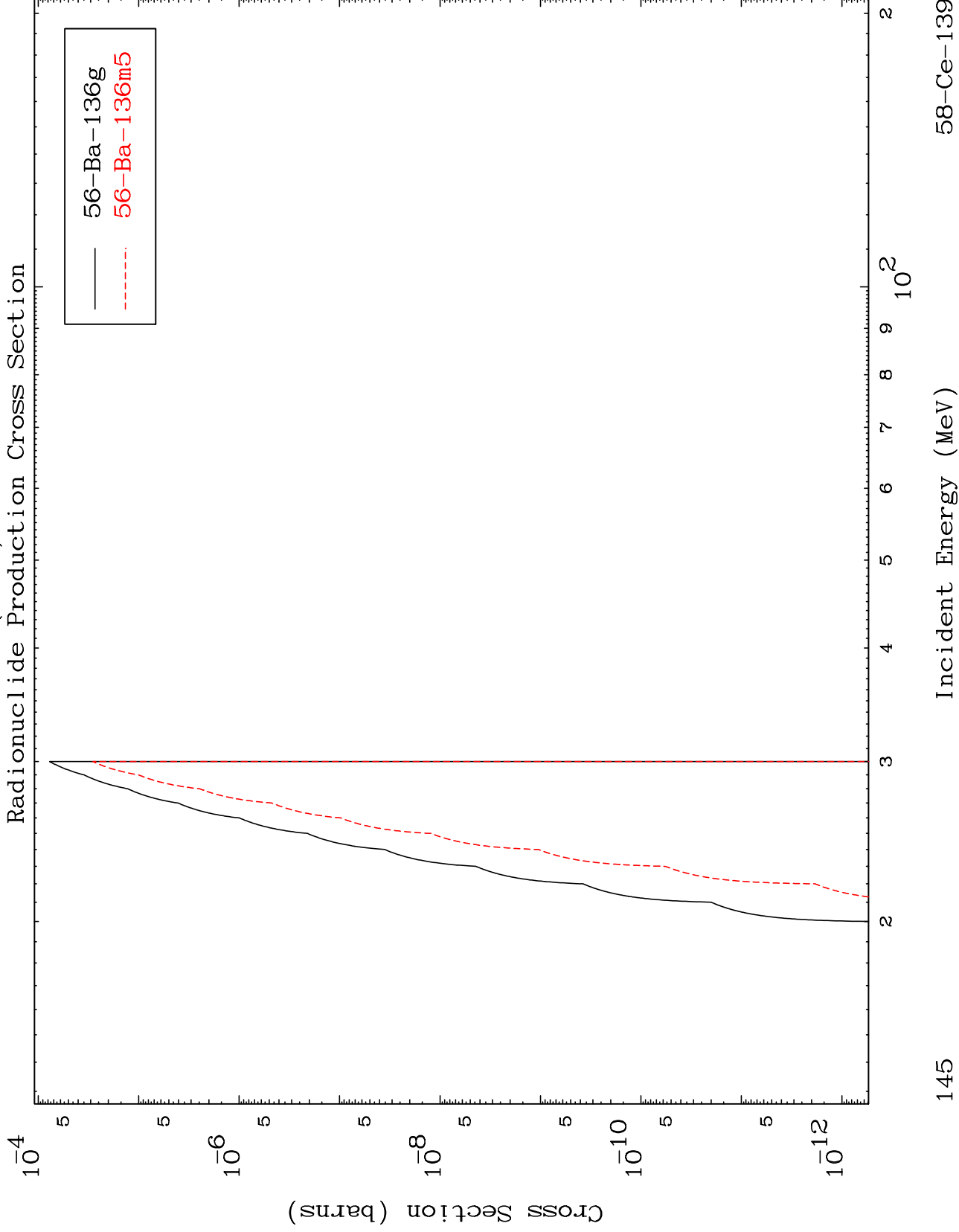
Incident Energy (MeV)

58-Ce-139

MAT 5834

(n,n') He-3

58-Ce-139



145

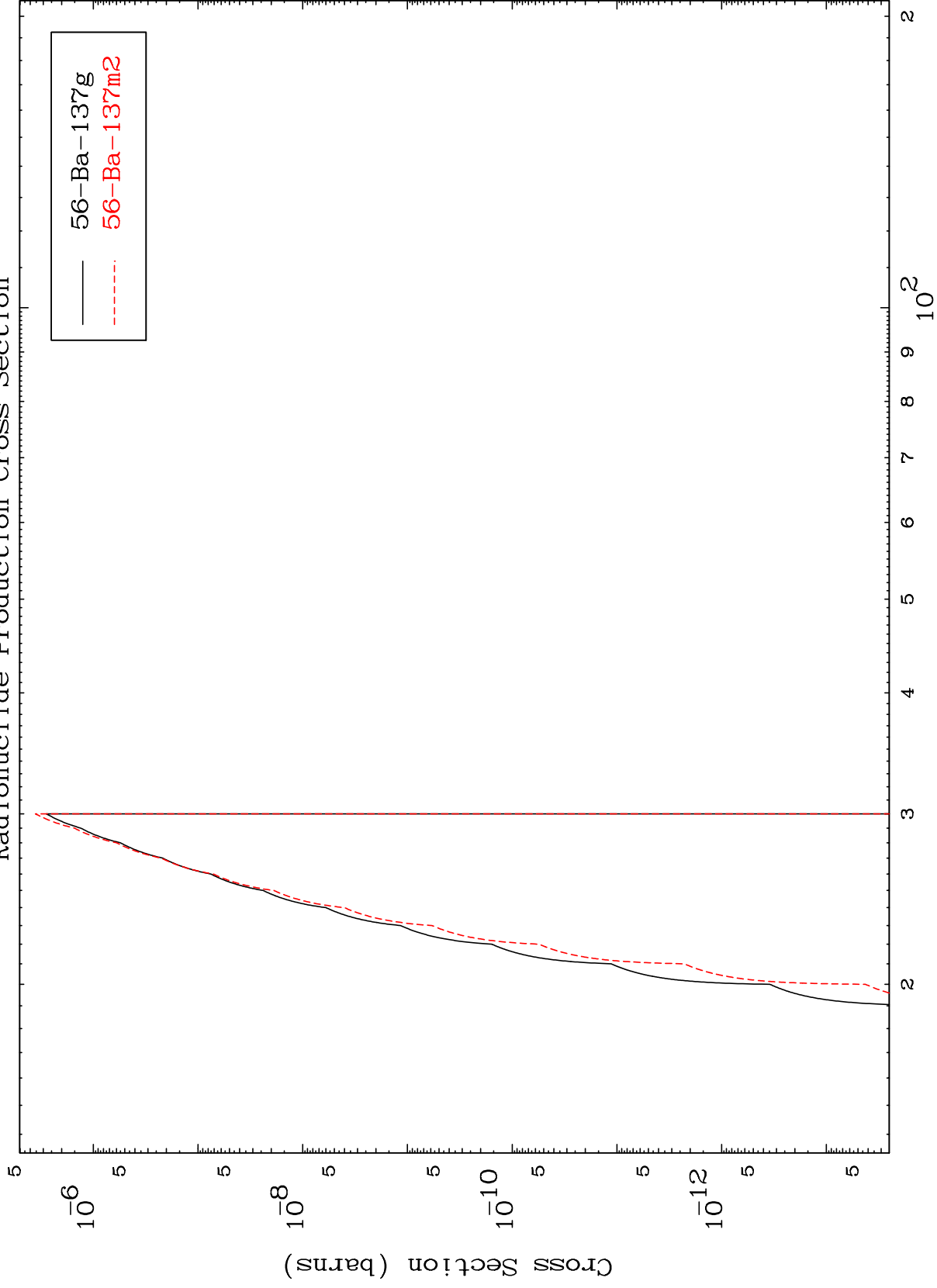
58-Ce-139

MAT 5834

(n,2n) p

58-Ce-139

Radionuclide Production Cross Section



146

Incident Energy (MeV)

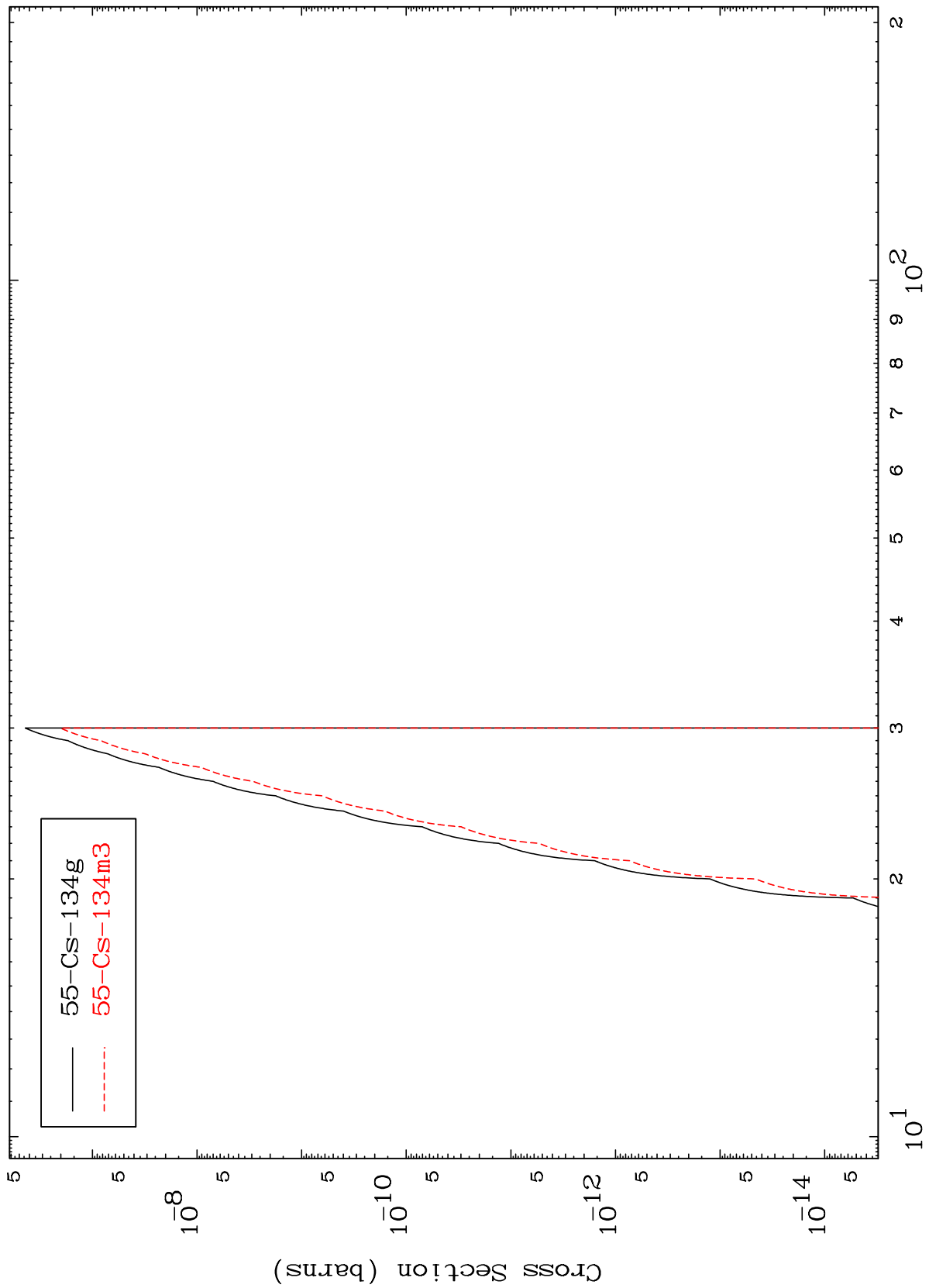
58-Ce-139

MAT 5834

(n,n') p α

58-Ce-139

Radionuclide Production Cross Section



147

Incident Energy (MeV)

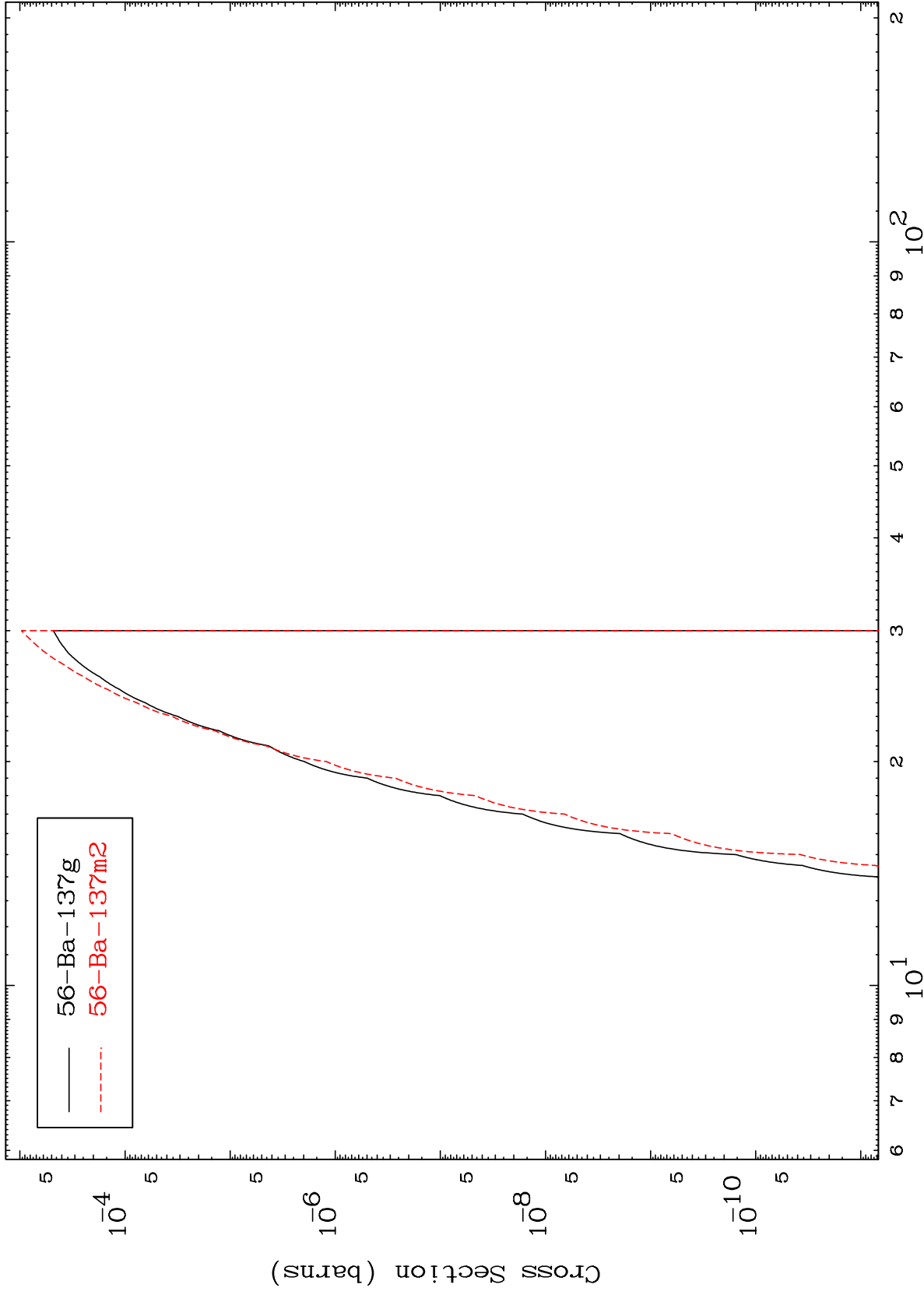
58-Ce-139

MAT 5834

(n,He-3)

58-Ce-139

Radionuclide Production Cross Section



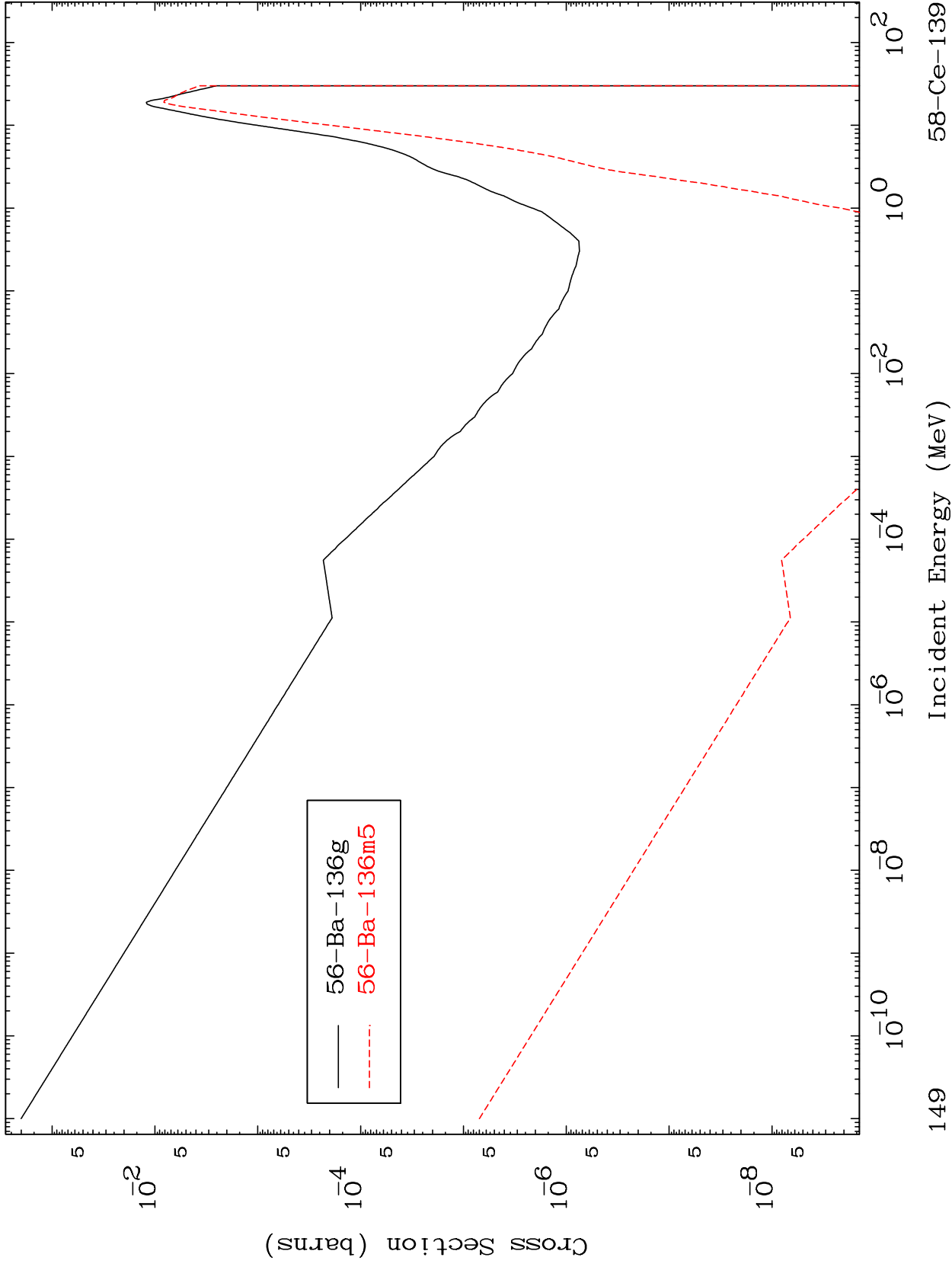
148

58-Ce-139

MAT 5834

58-Ce-139

(n,α)
Radionuclide Production Cross Section

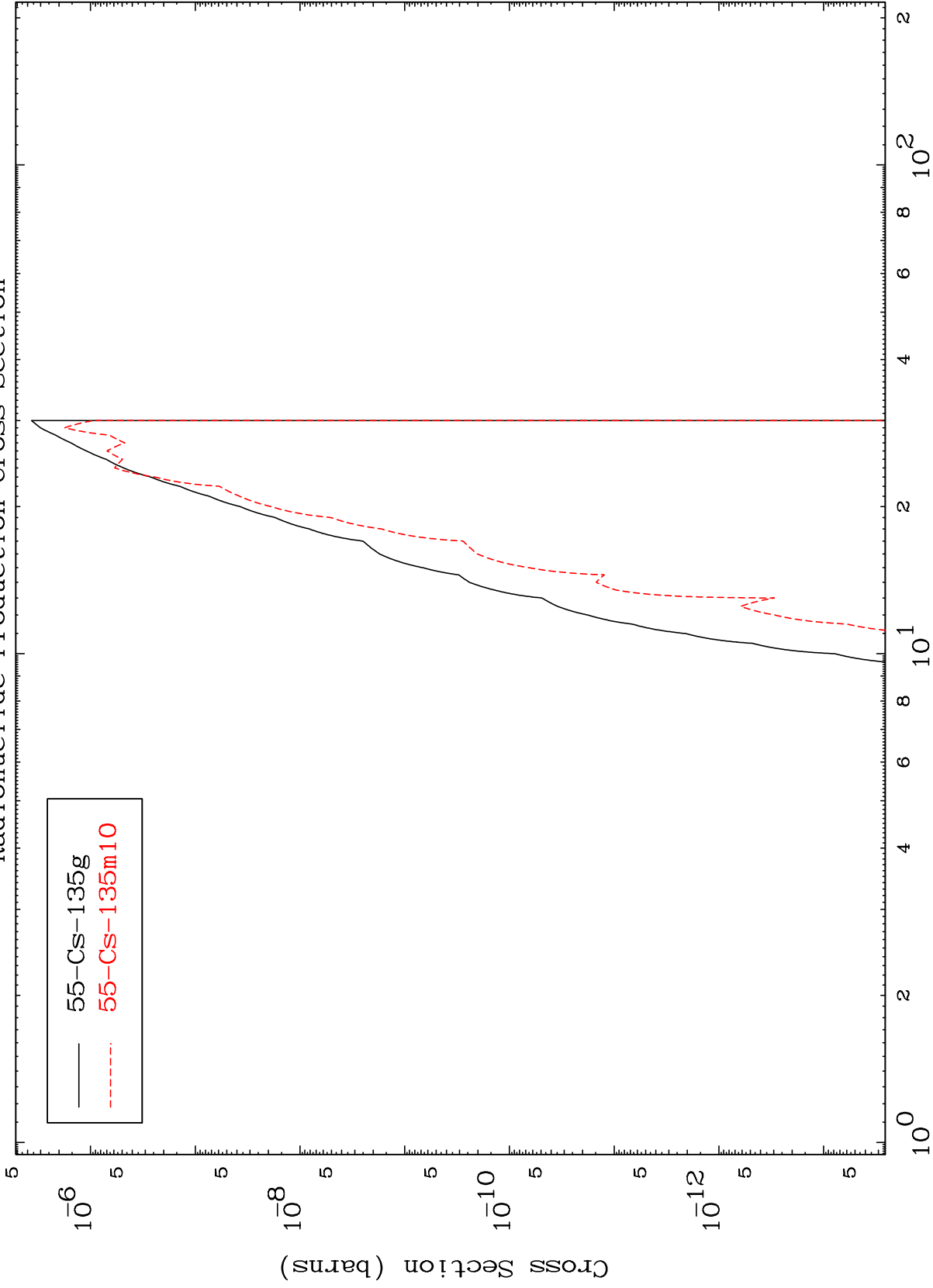


MAT 5834

(n,p) α

58-Ce-139

Radionuclide Production Cross Section



Incident Energy (MeV)

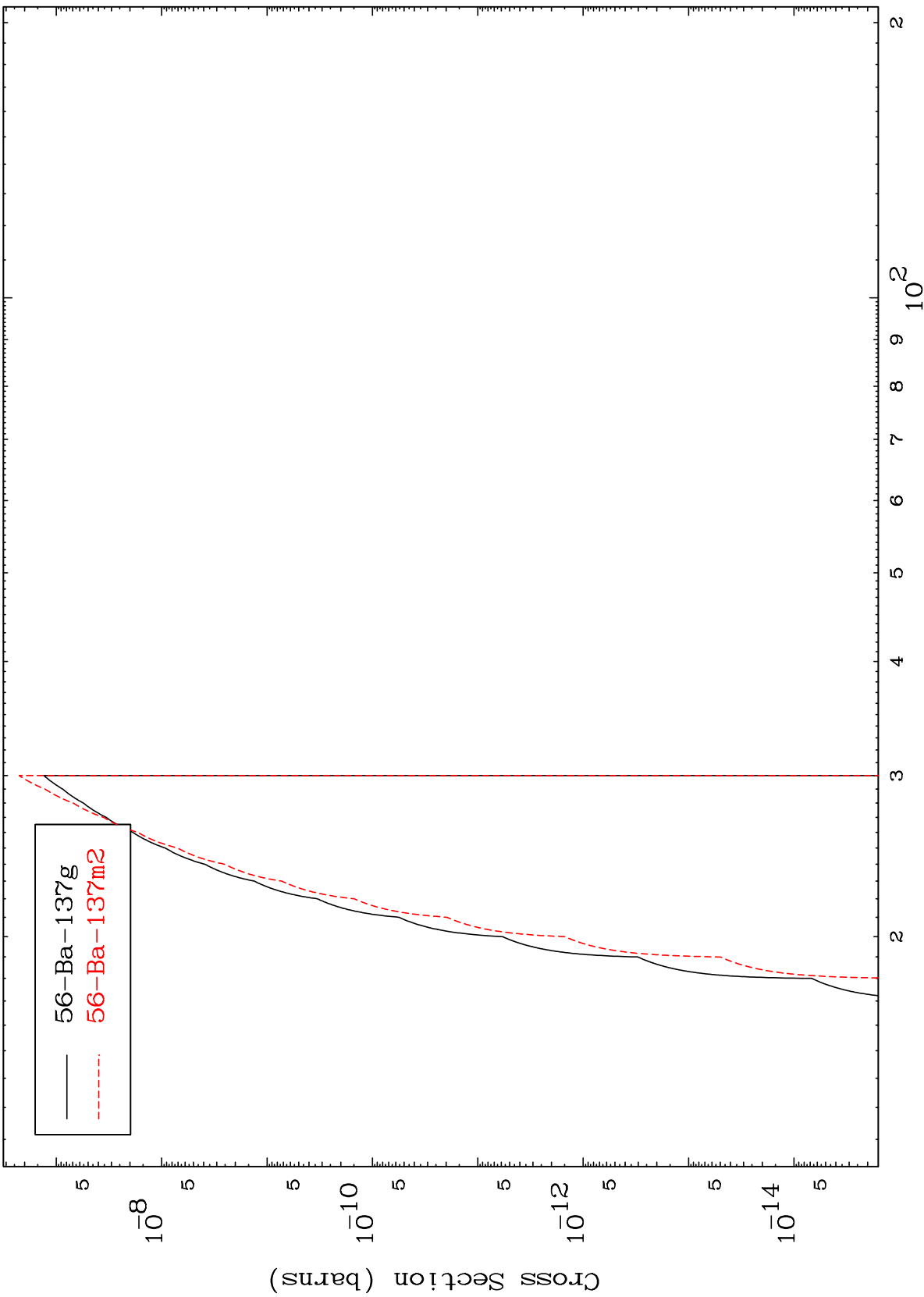
58-Ce-139

MAT 5834

(n,p) d

58-Ce-139

Radionuclide Production Cross Section

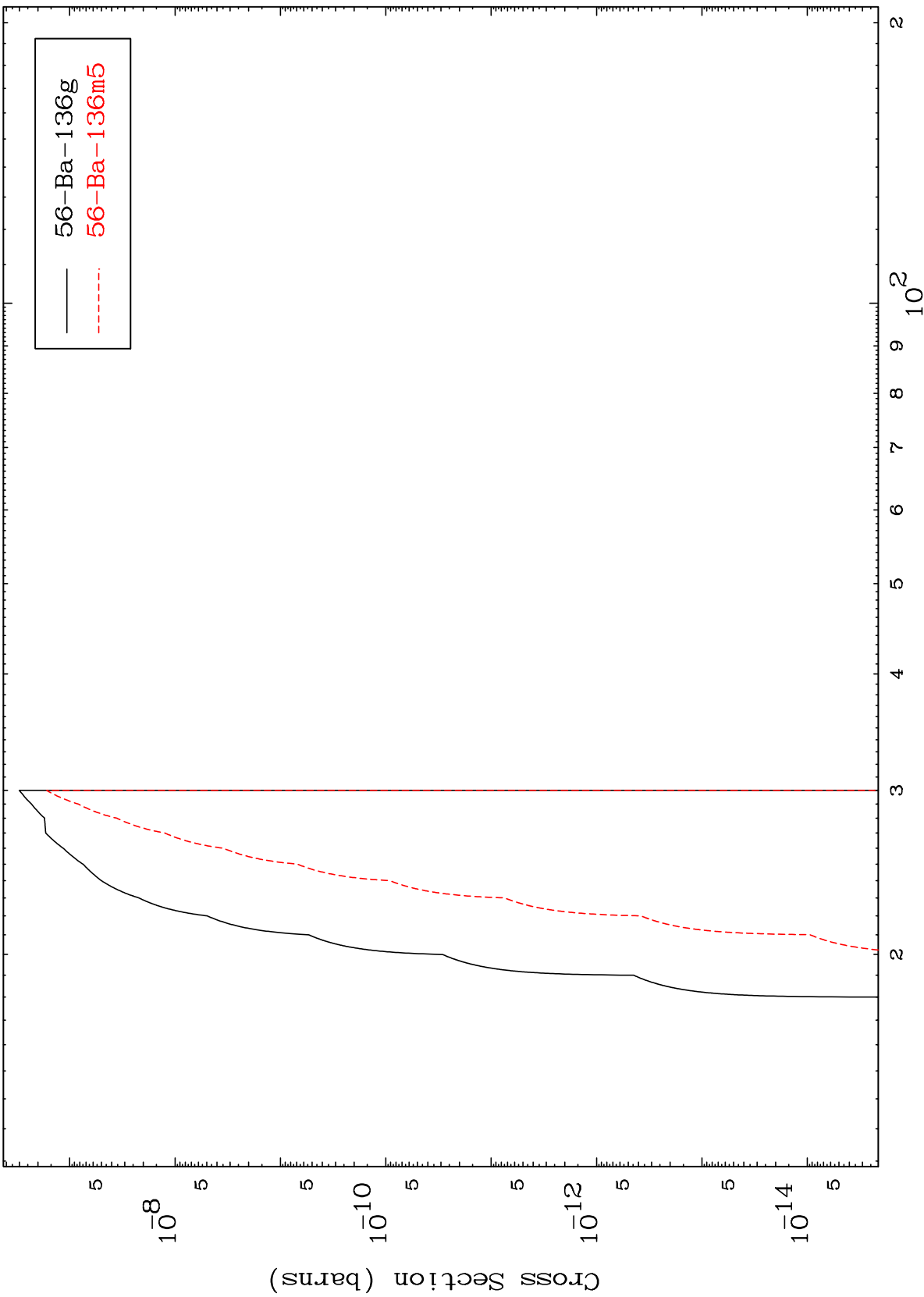


151

Incident Energy (MeV)

58-Ce-139

Radionuclide Production Cross Section

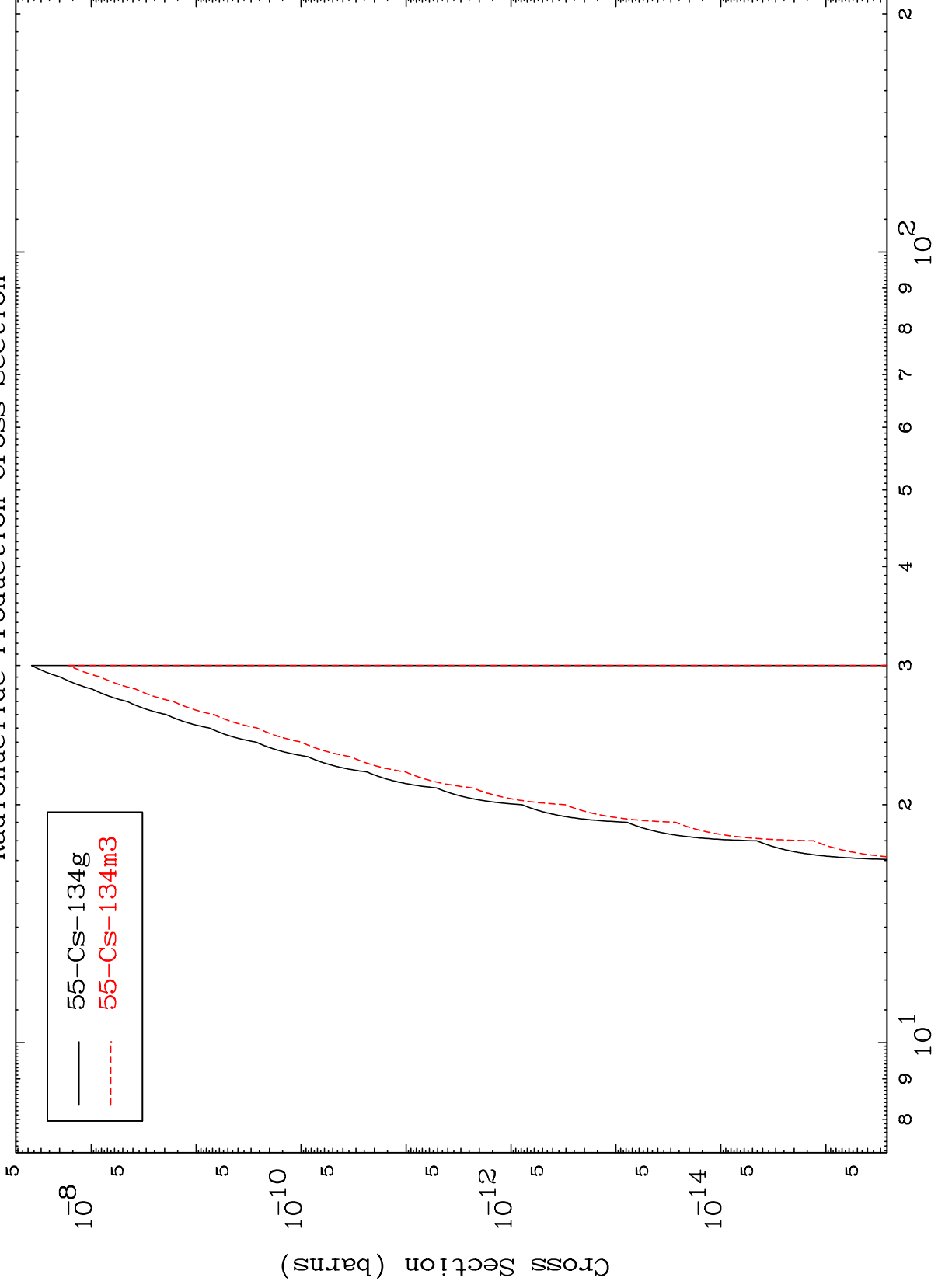


MAT 5834

(n,d) α

58-Ce-139

Radionuclide Production Cross Section



55-Cs-134g
55-Cs-134m3

153

Incident Energy (MeV)

58-Ce-139