

Program EVALPLOT  
(Version 2017-1)

by

Dermott E. Cullen  
(Present Contact Information)

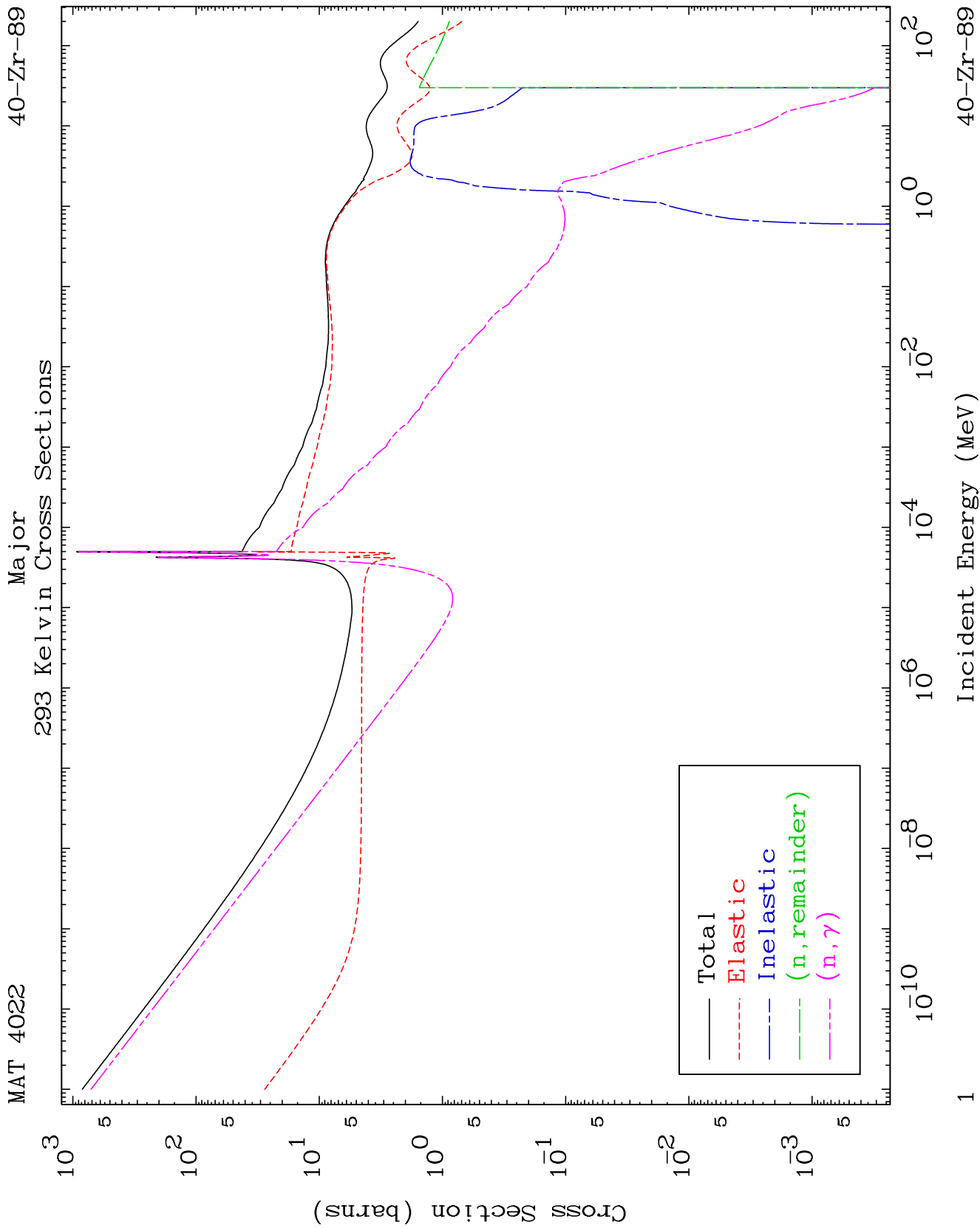
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Tele: 925-443-1911

E.Mail:redcullen1@comcast.net

Web:redcullen1.net/HOMEPAGE.NEW

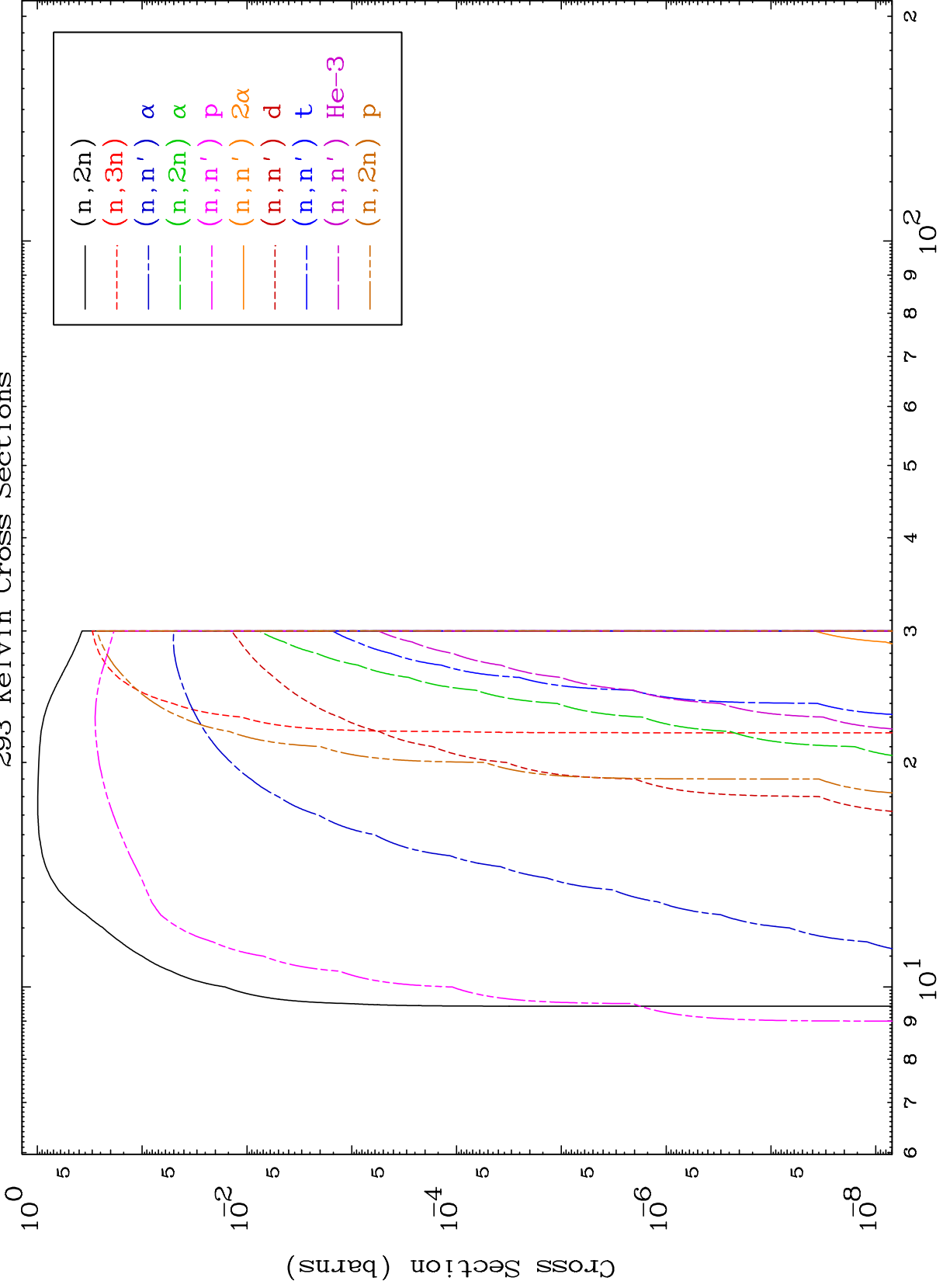
Press Mouse Button to Start



MAT 4022

Neutron Production  
293 Kelvin Cross Sections

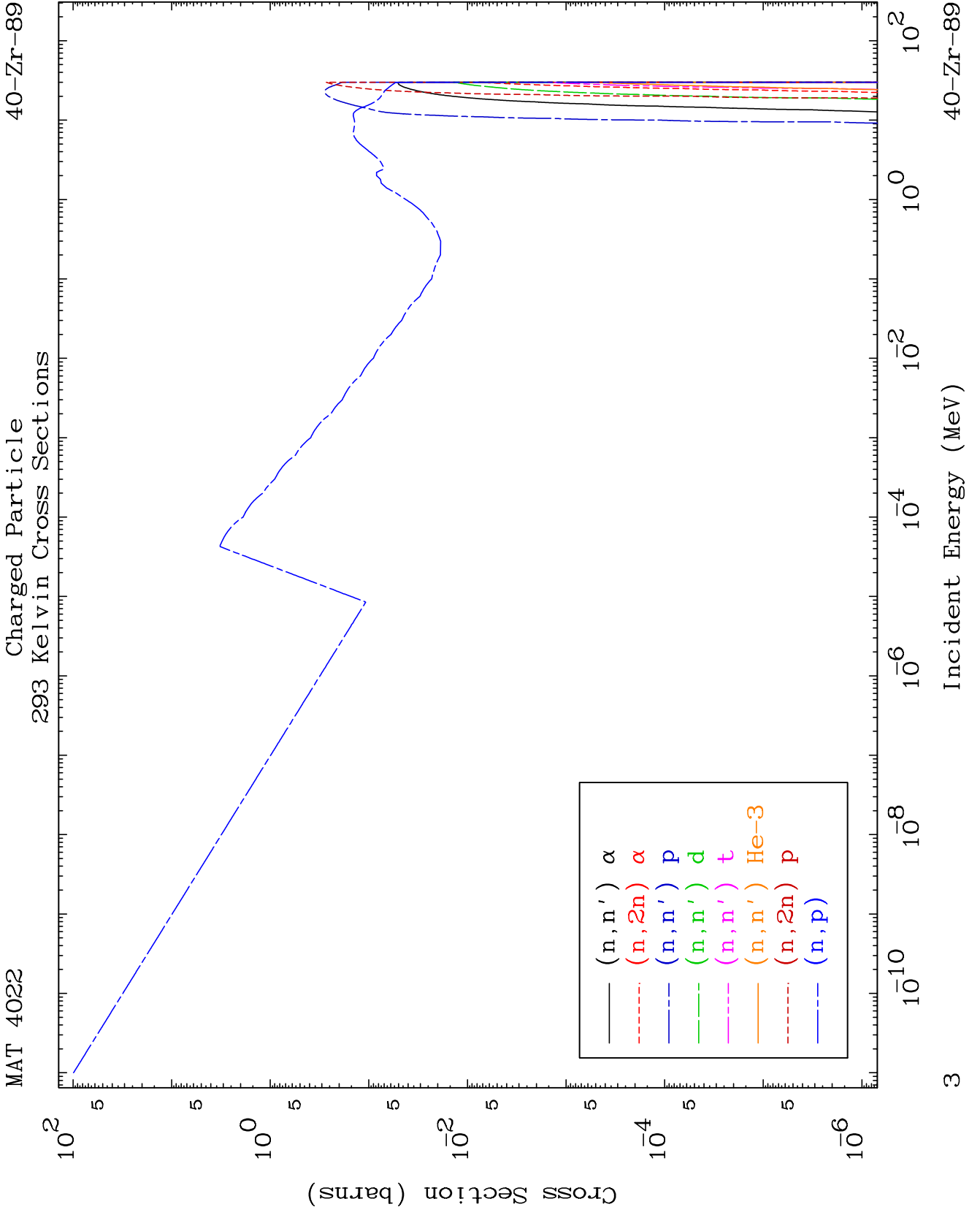
40-Zr-89



2

Incident Energy (MeV)

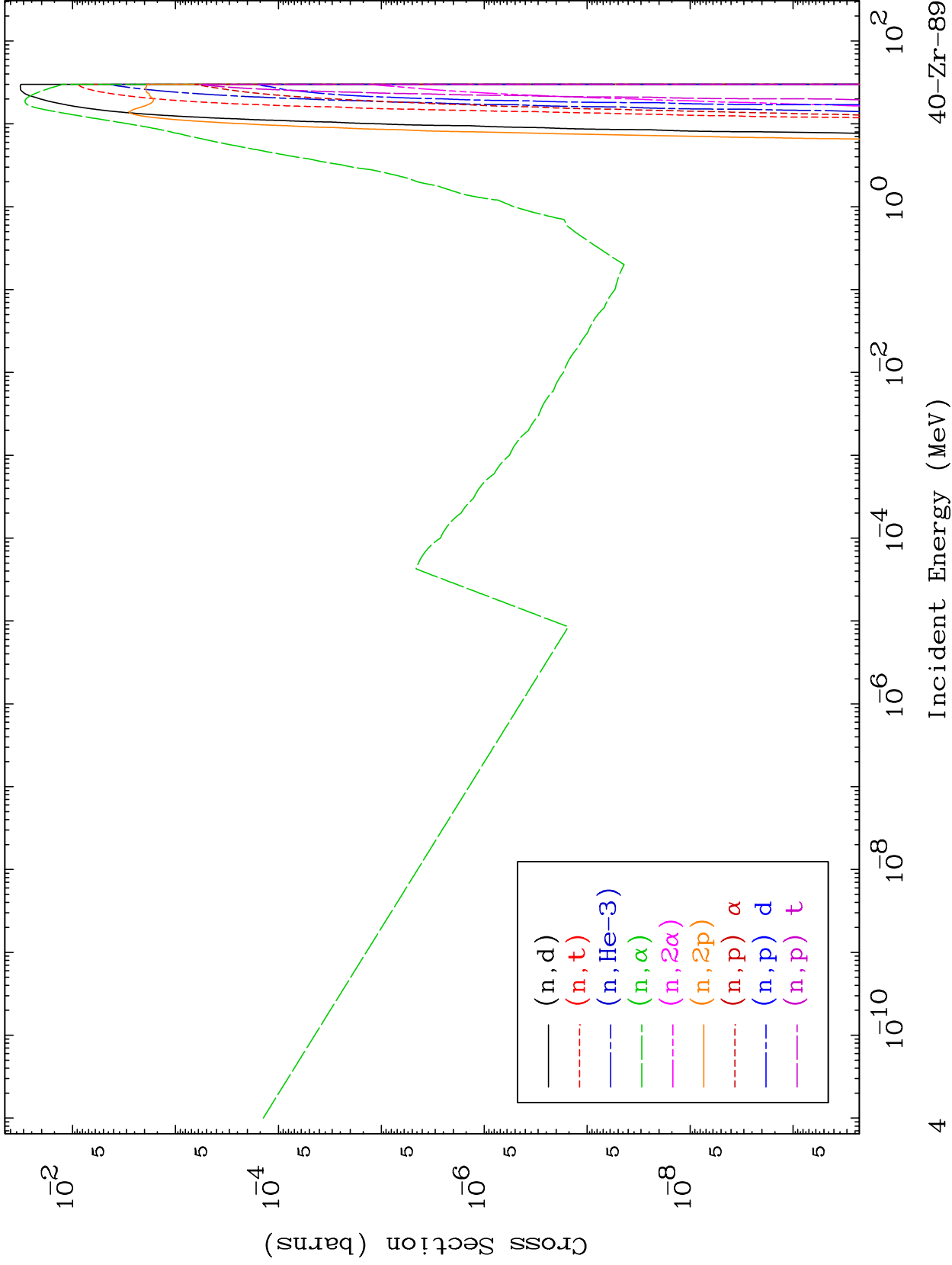
40-Zr-89

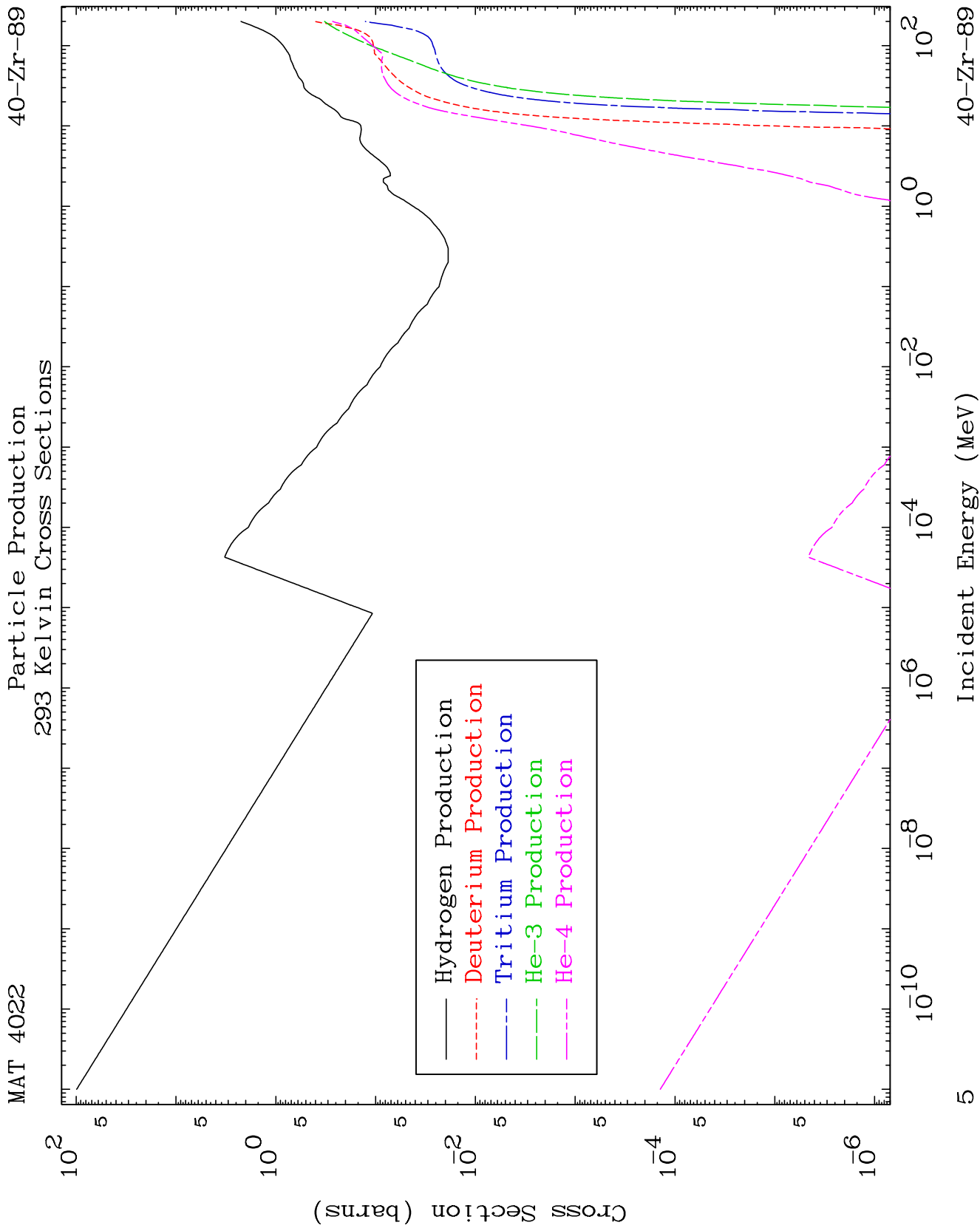


MAT 4022

Charged Particle  
293 Kelvin Cross Sections

40-Zr-89



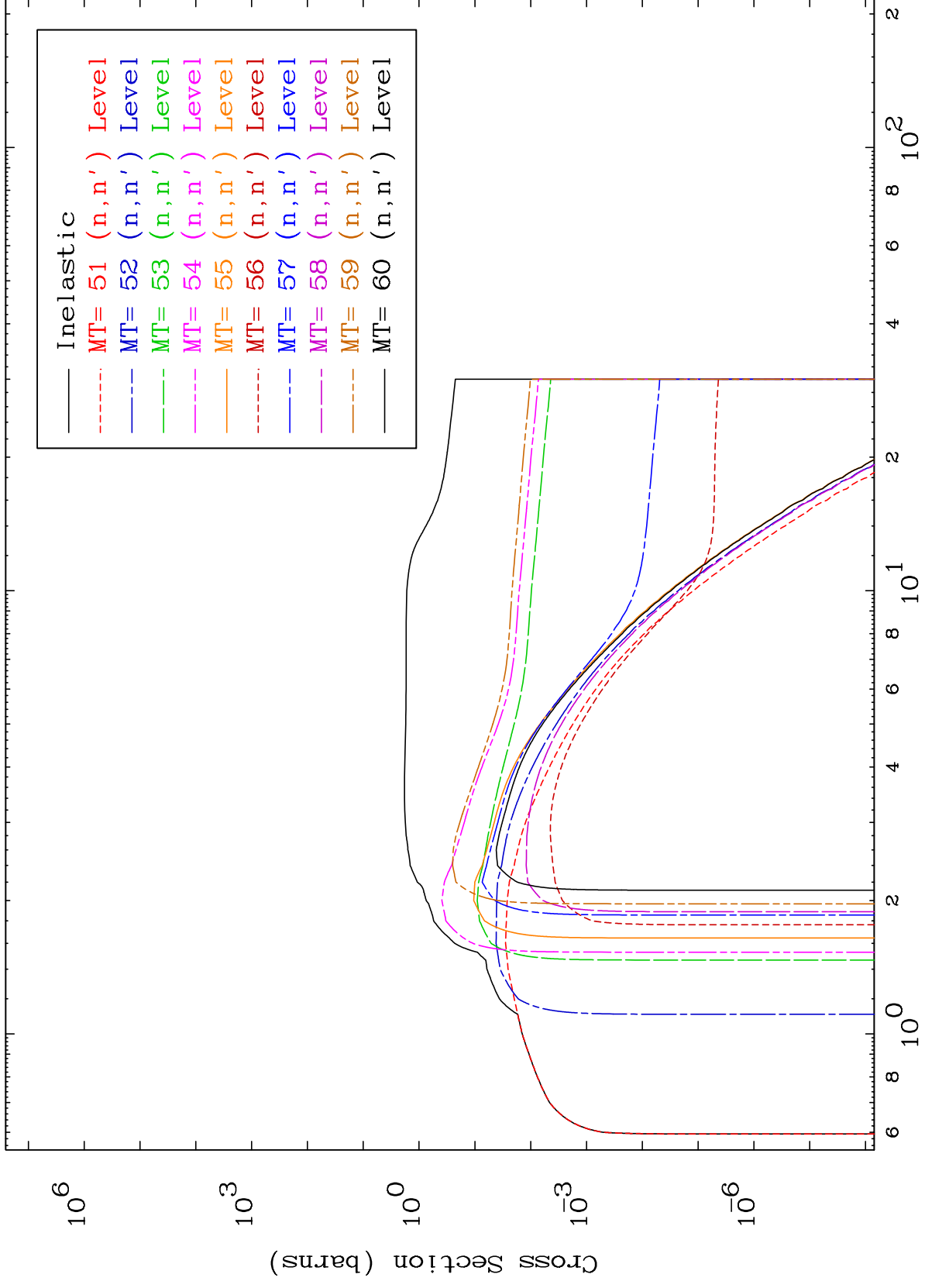


MAT 4022

(n,n') Level

40-Zr-89

293 Kelvin Cross Sections



6

Incident Energy (MeV)

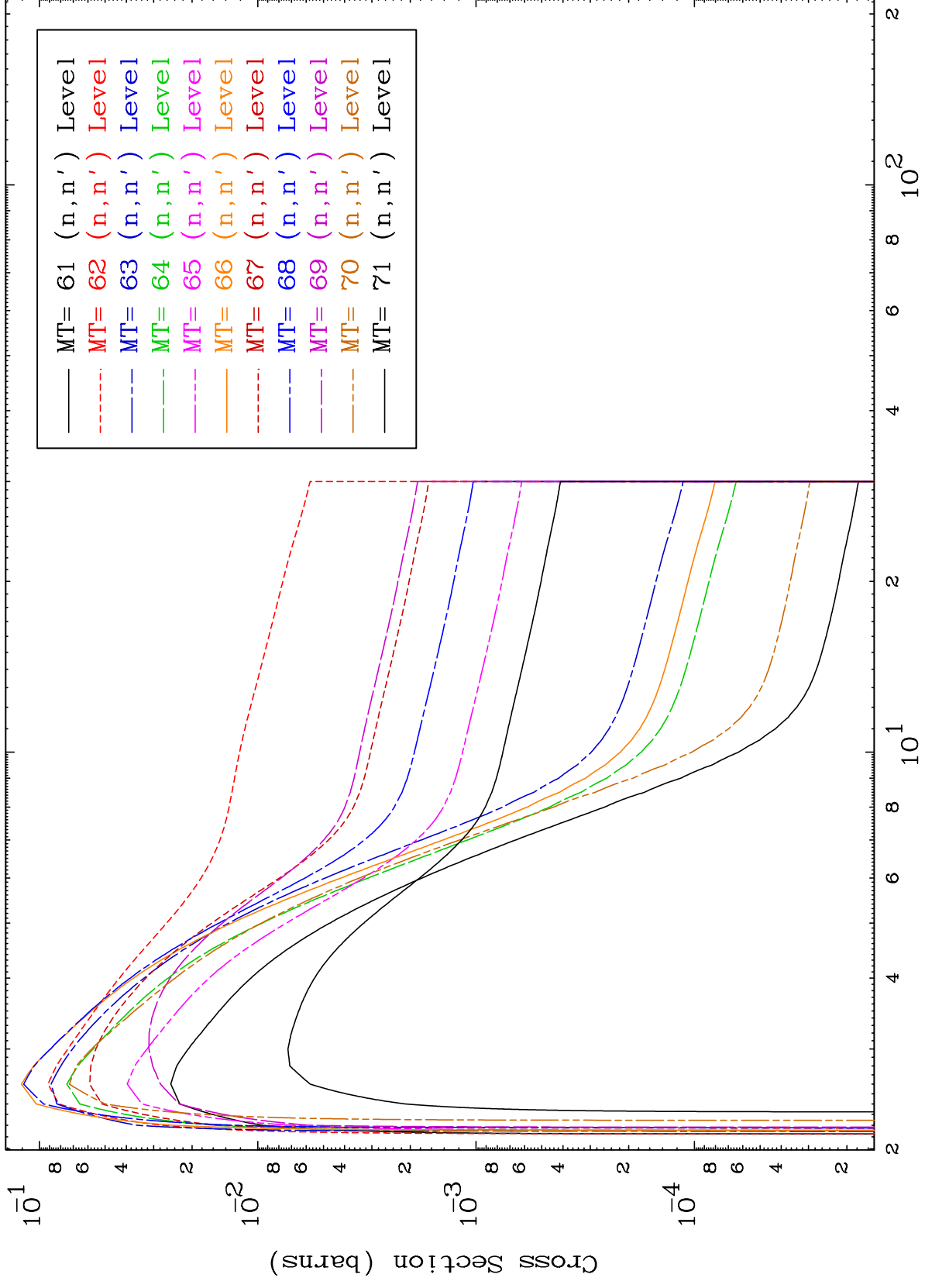
40-Zr-89

MAT 4022

(n,n') Level

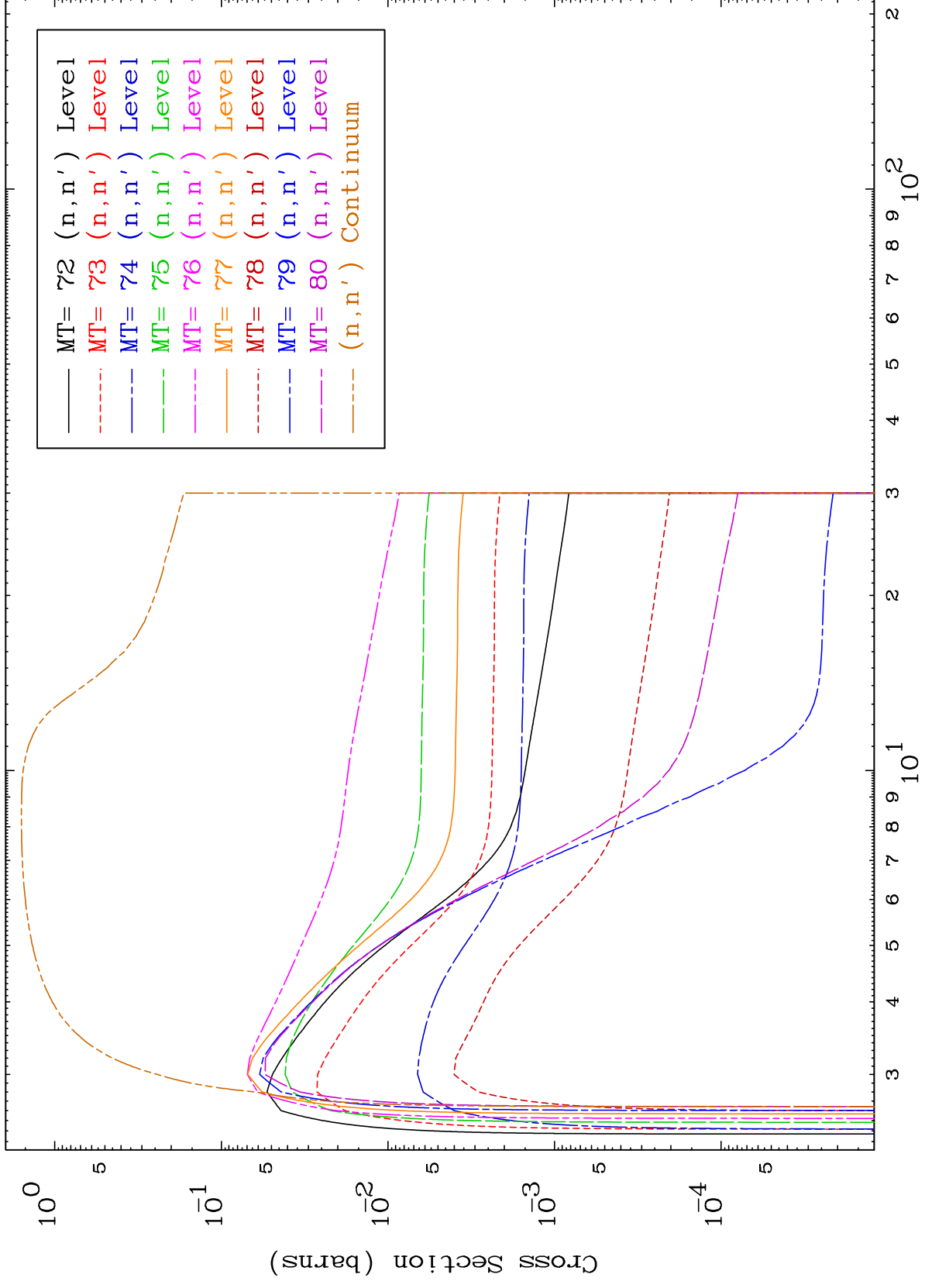
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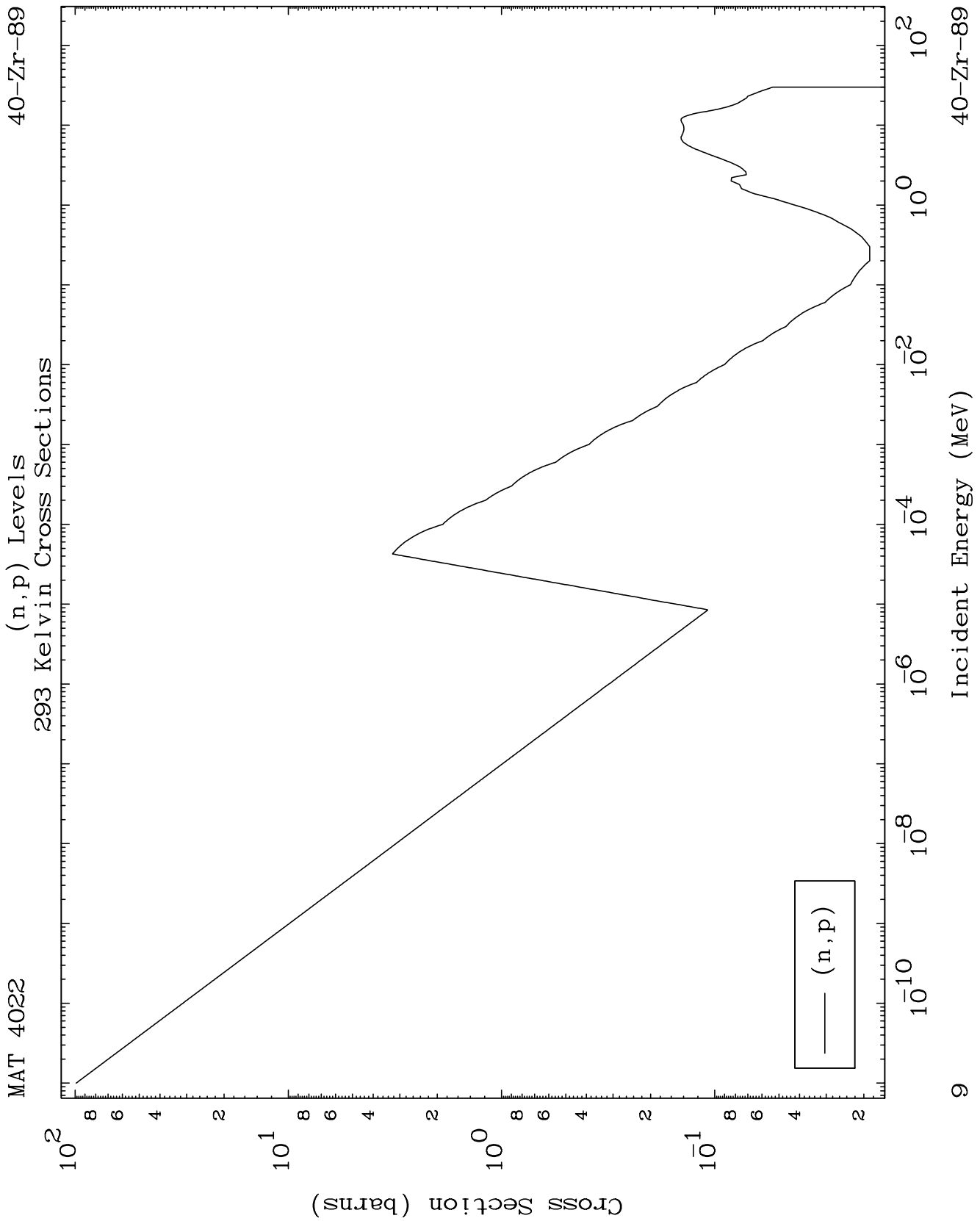
293 Kelvin Cross Sections





293 Kelvin Cross Sections

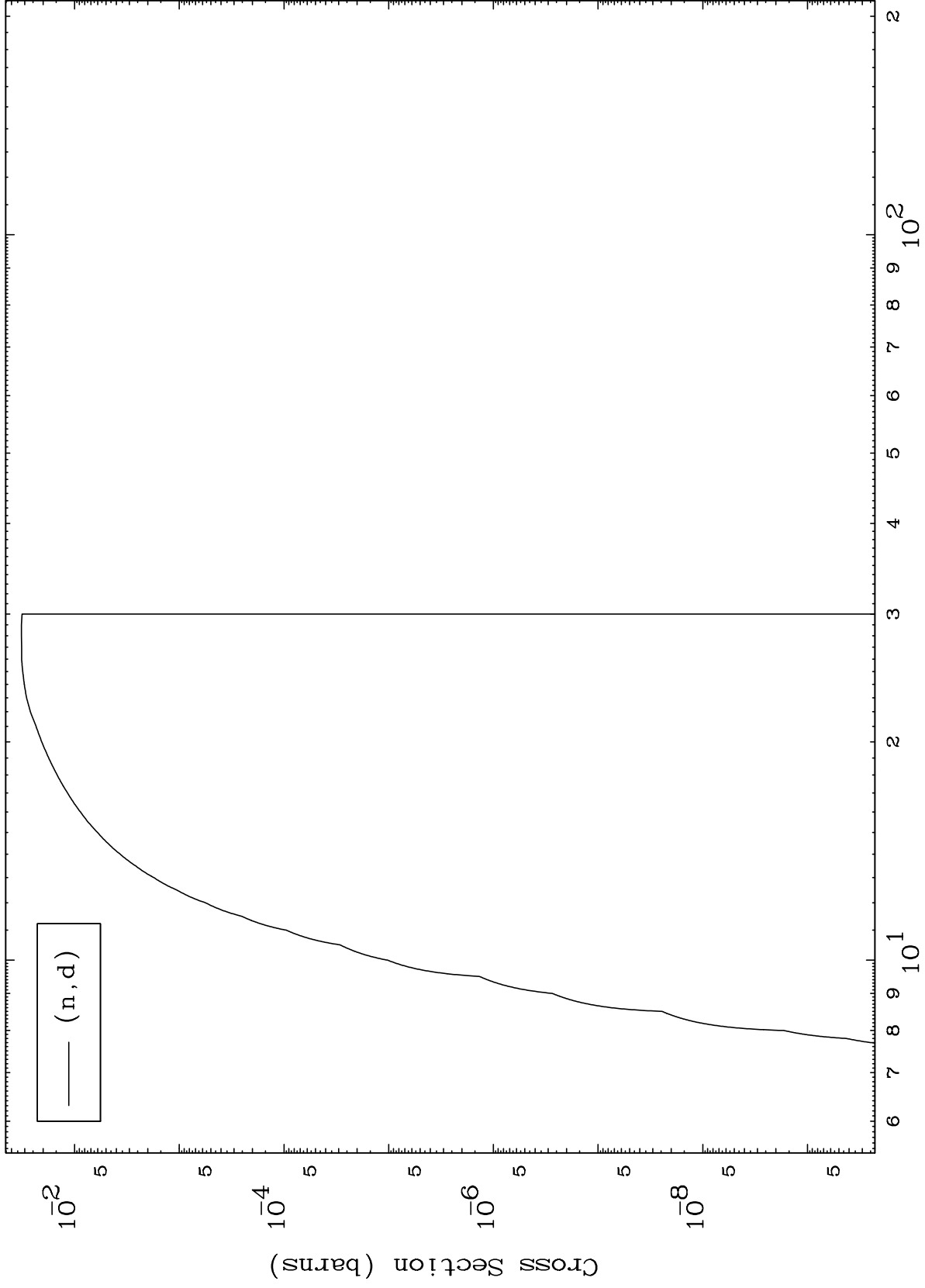




MAT 4022

(n,d) Levels  
293 Kelvin Cross Sections

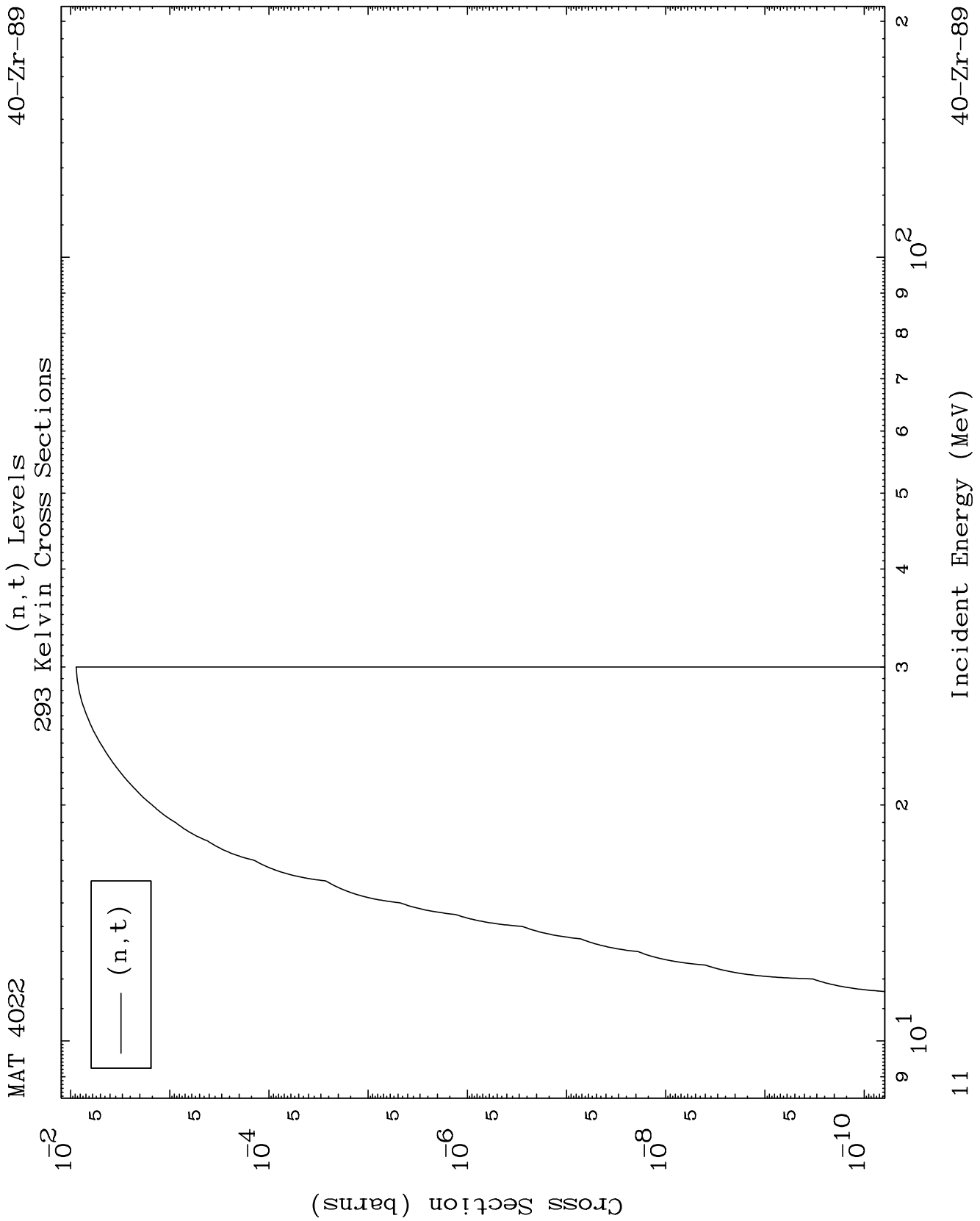
40-Zr-89



10

Incident Energy (MeV)

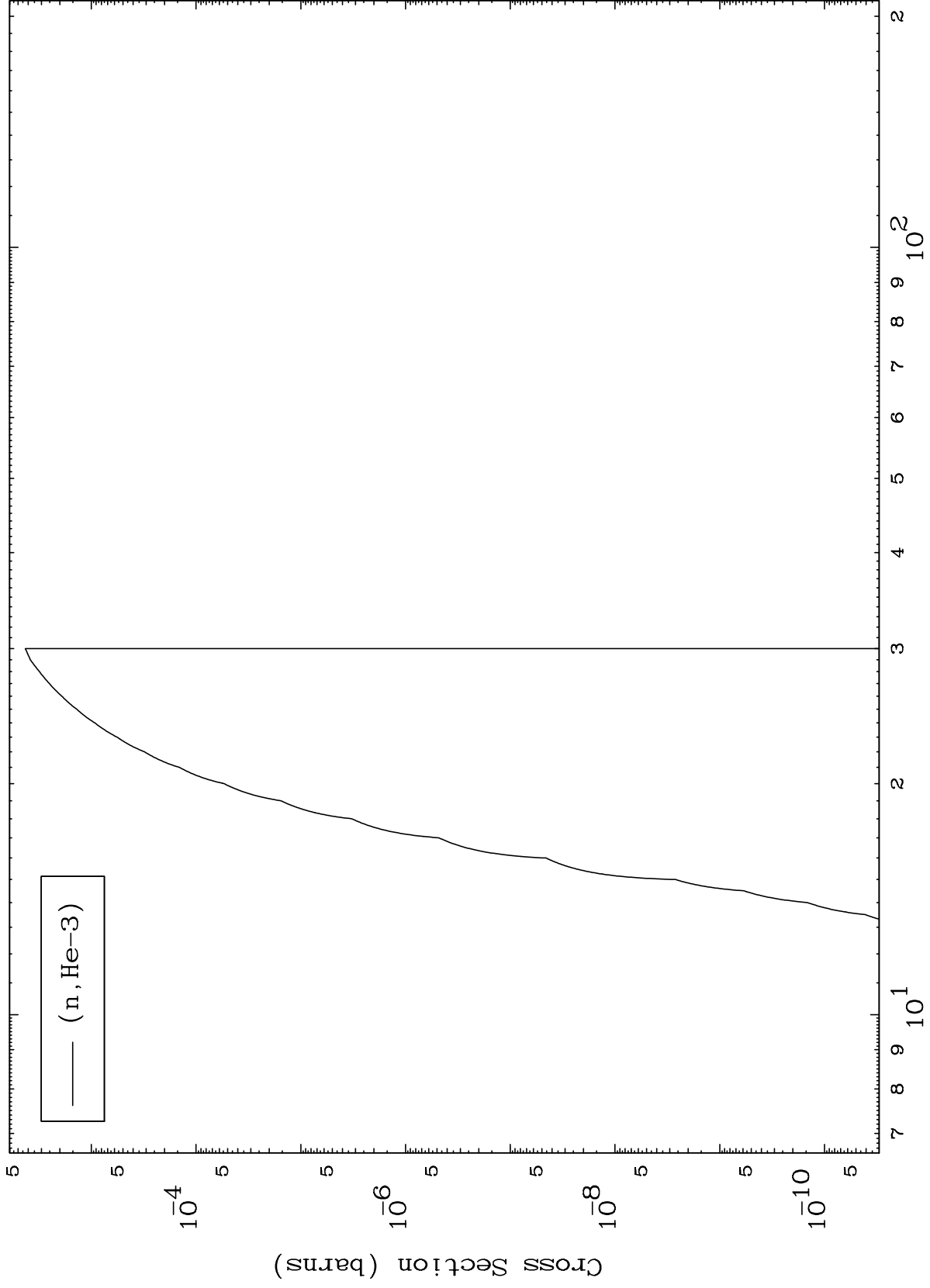
40-Zr-89



MAT 4022

(n,He3) Levels  
293 Kelvin Cross Sections

40-Zr-89



12

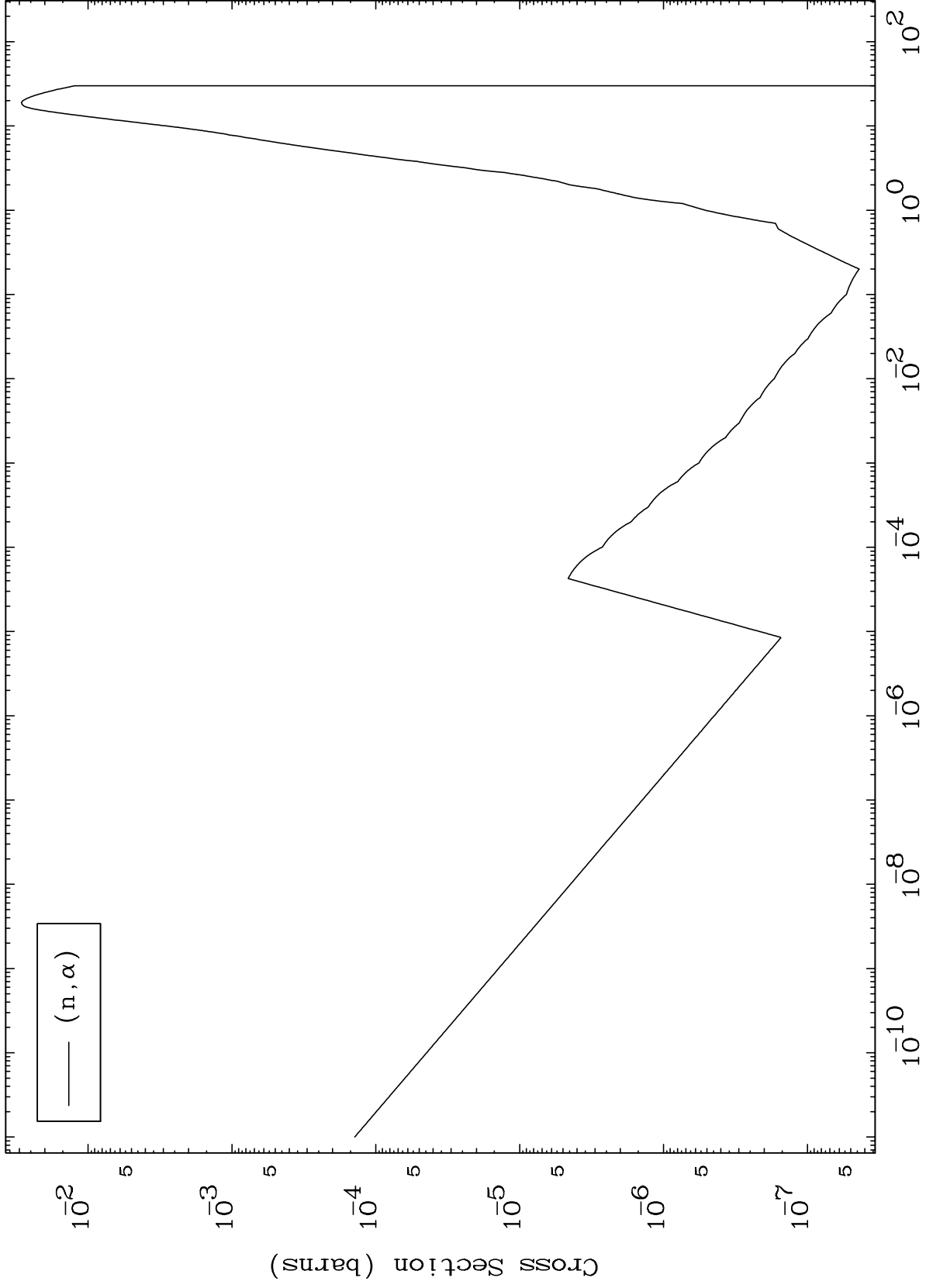
Incident Energy (MeV)

40-Zr-89

MAT 4022

(n,  $\alpha$ ) Levels  
293 Kelvin Cross Sections

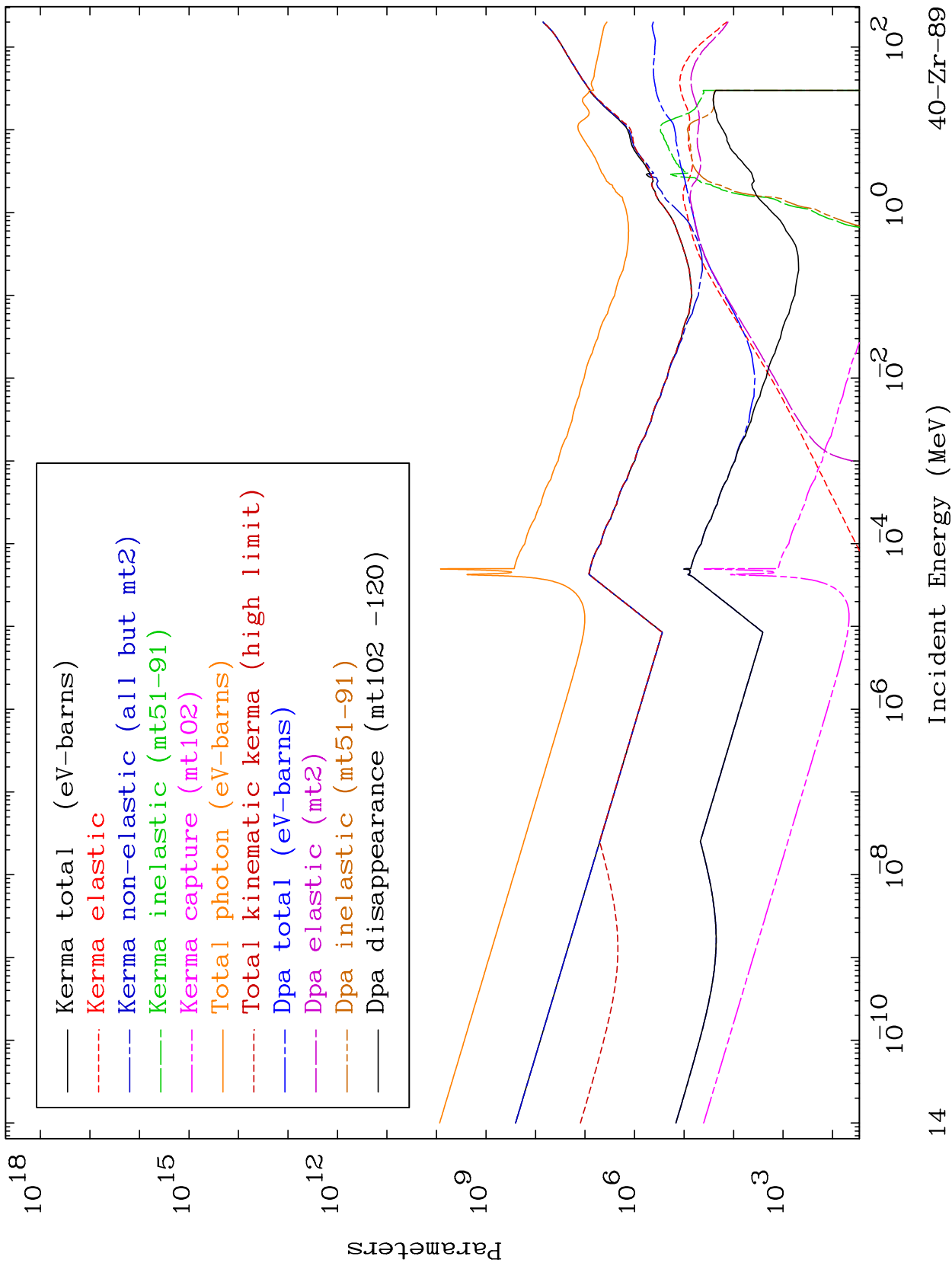
40-Zr-89



13

Incident Energy (MeV)

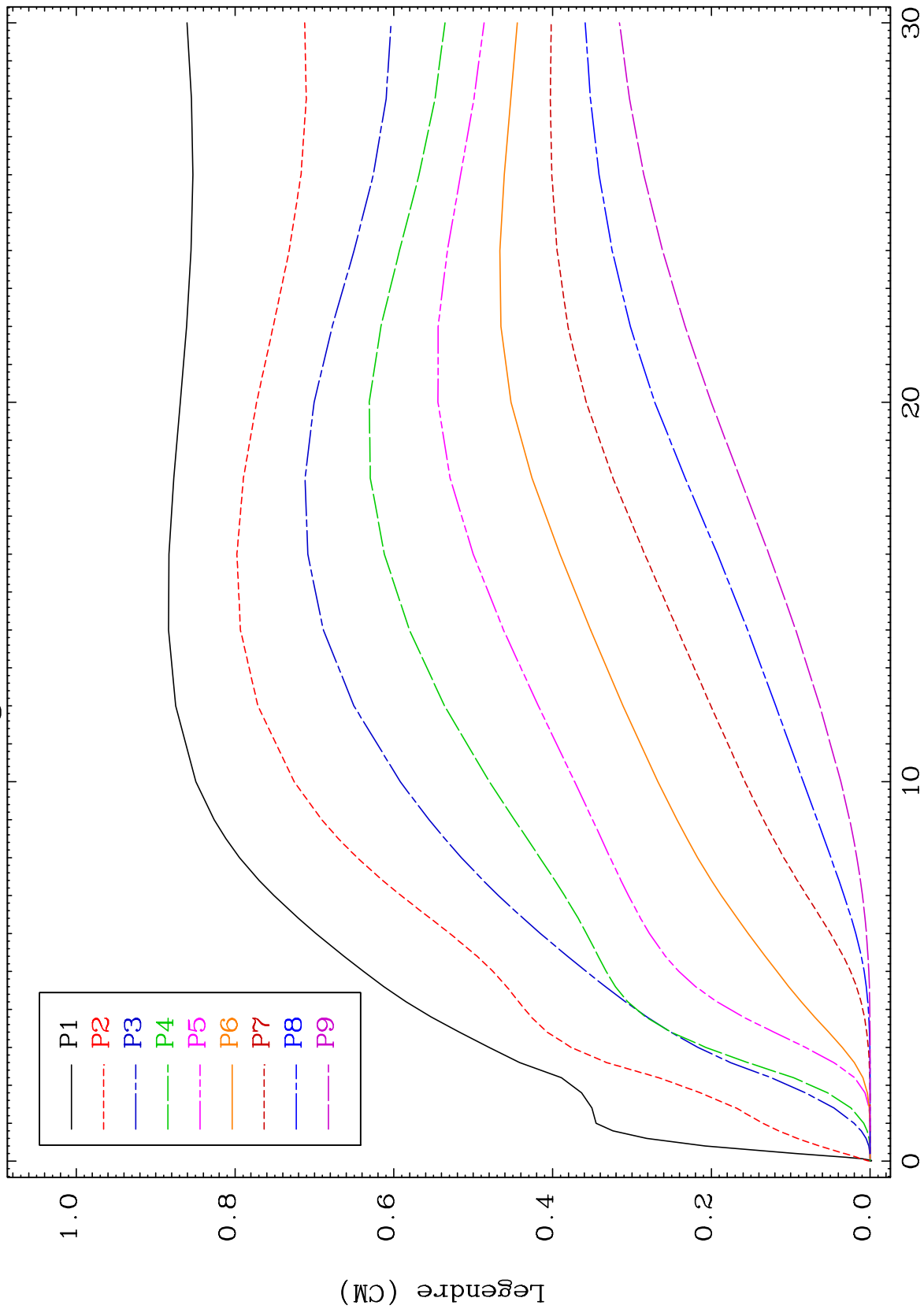
40-Zr-89



MAT 4022

Elastic Legendre Coefficients

40-Zr-89

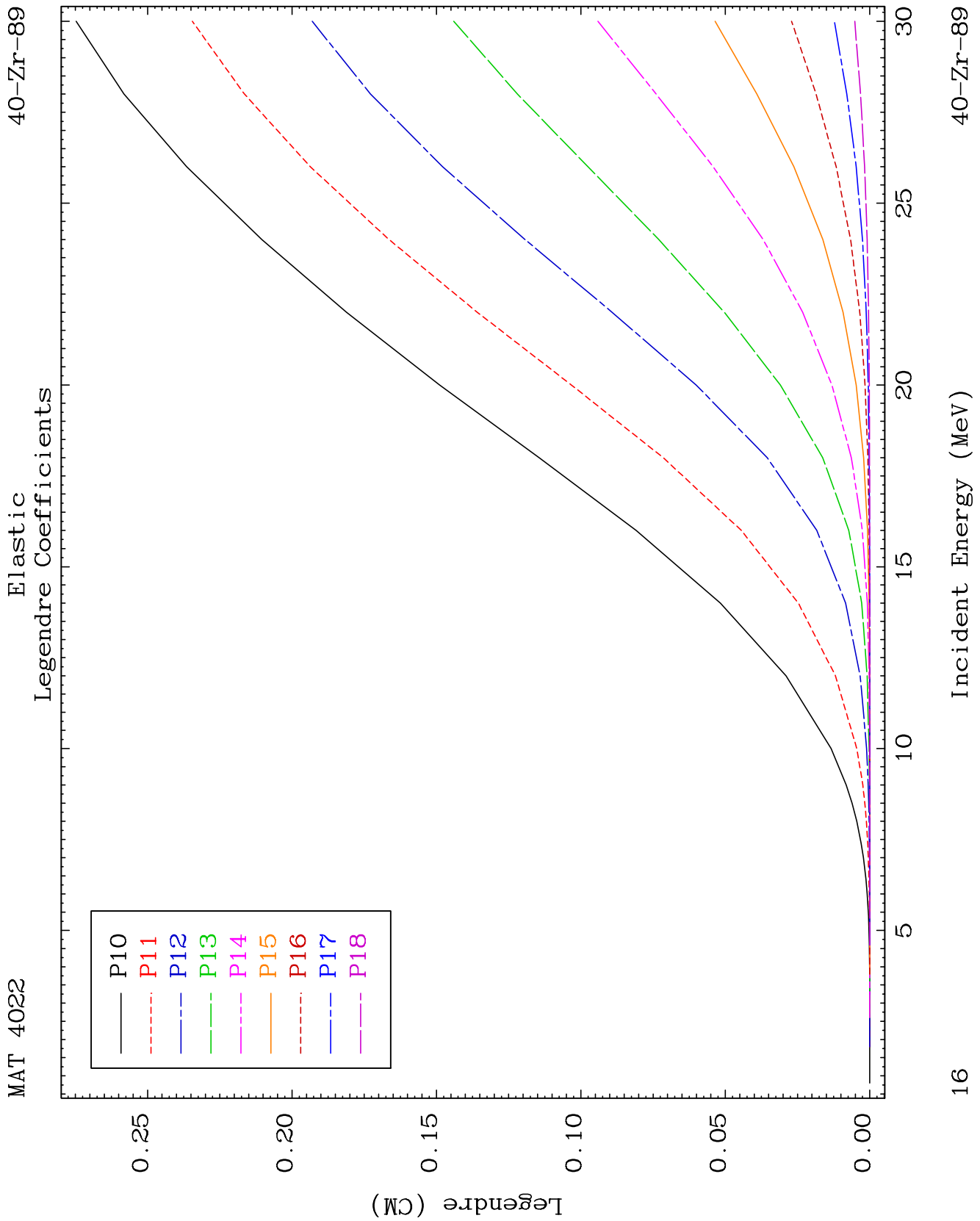


15

Incident Energy (MeV)

40-Zr-89

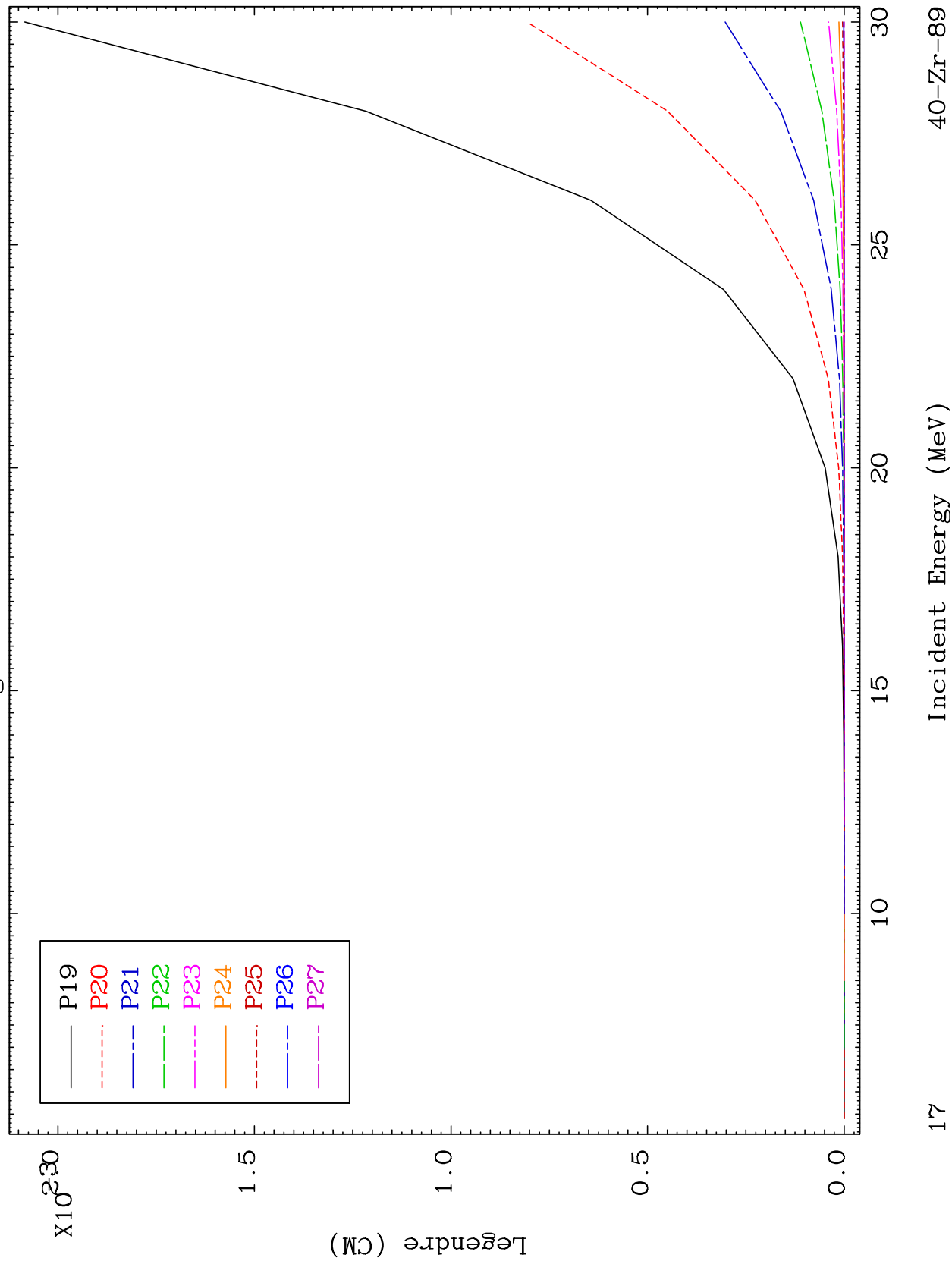




MAT 4022

Elastic  
Legendre Coefficients

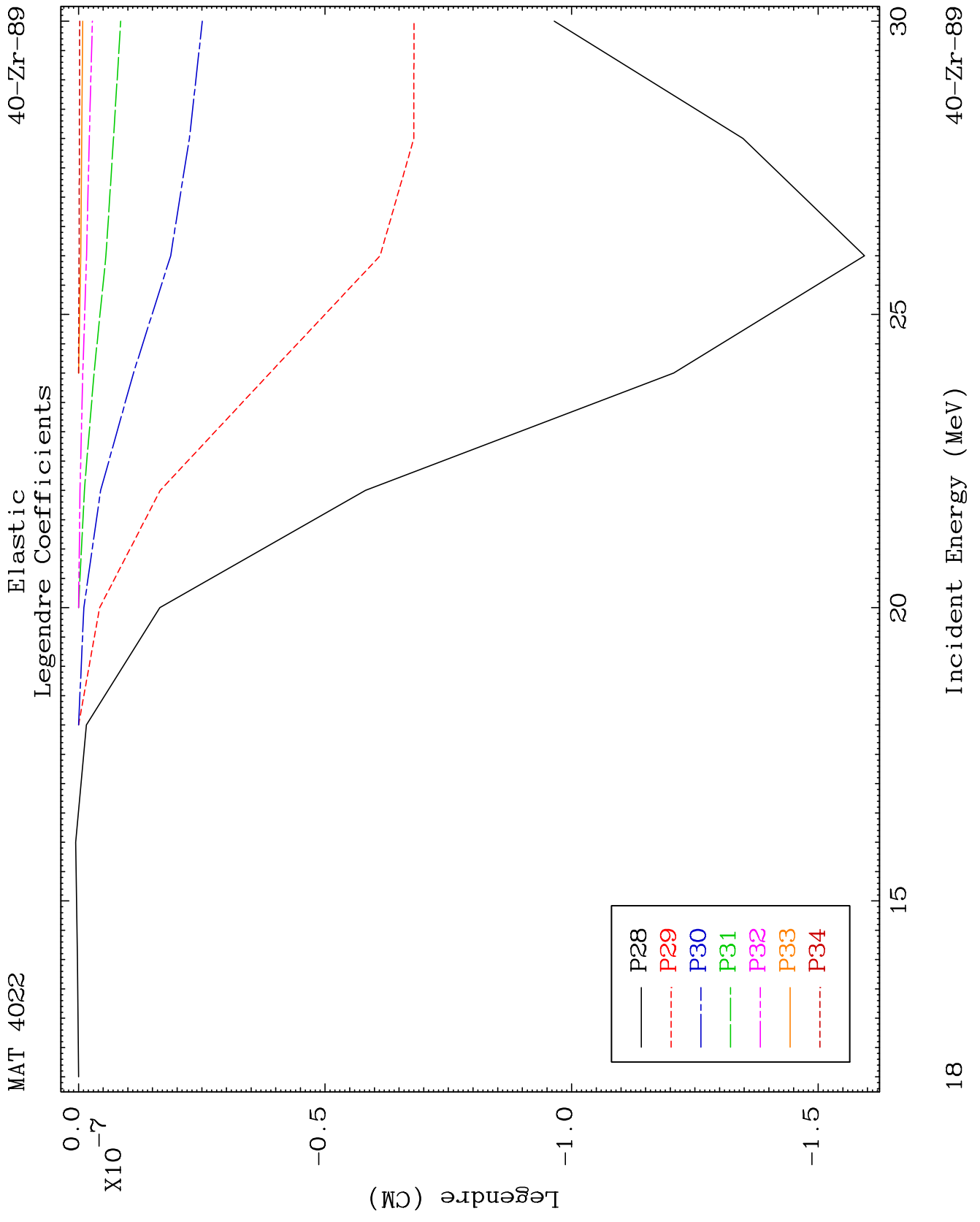
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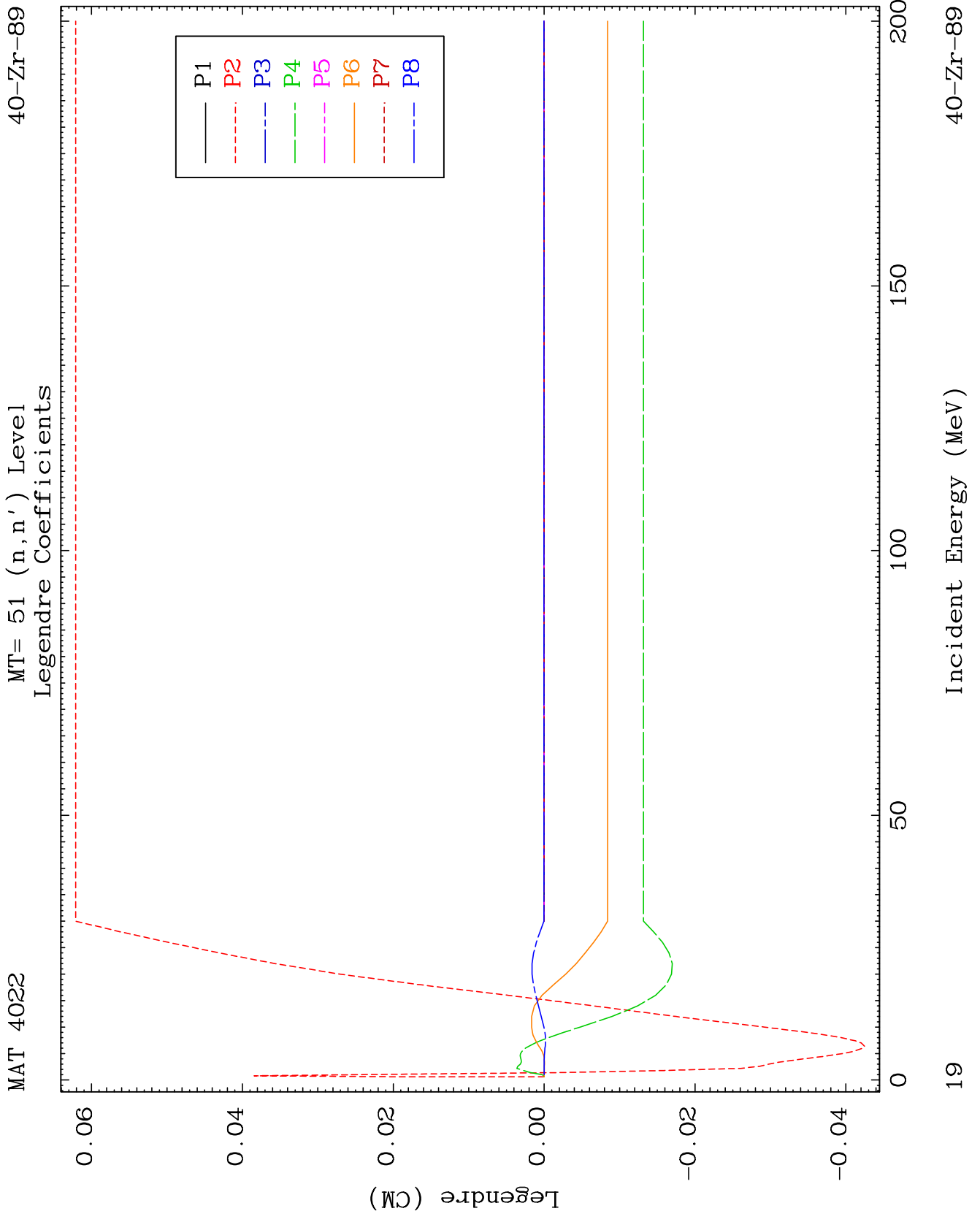


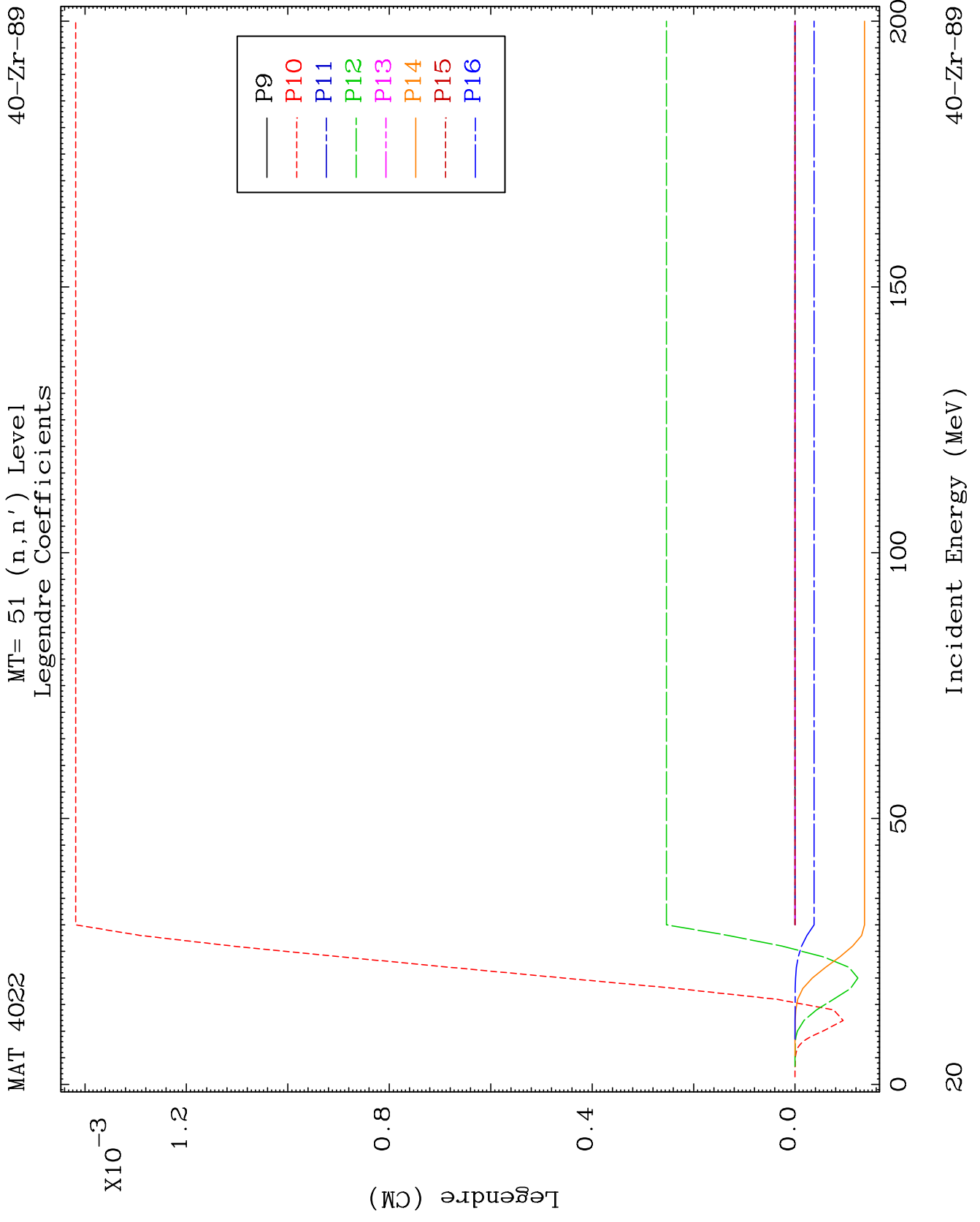
17

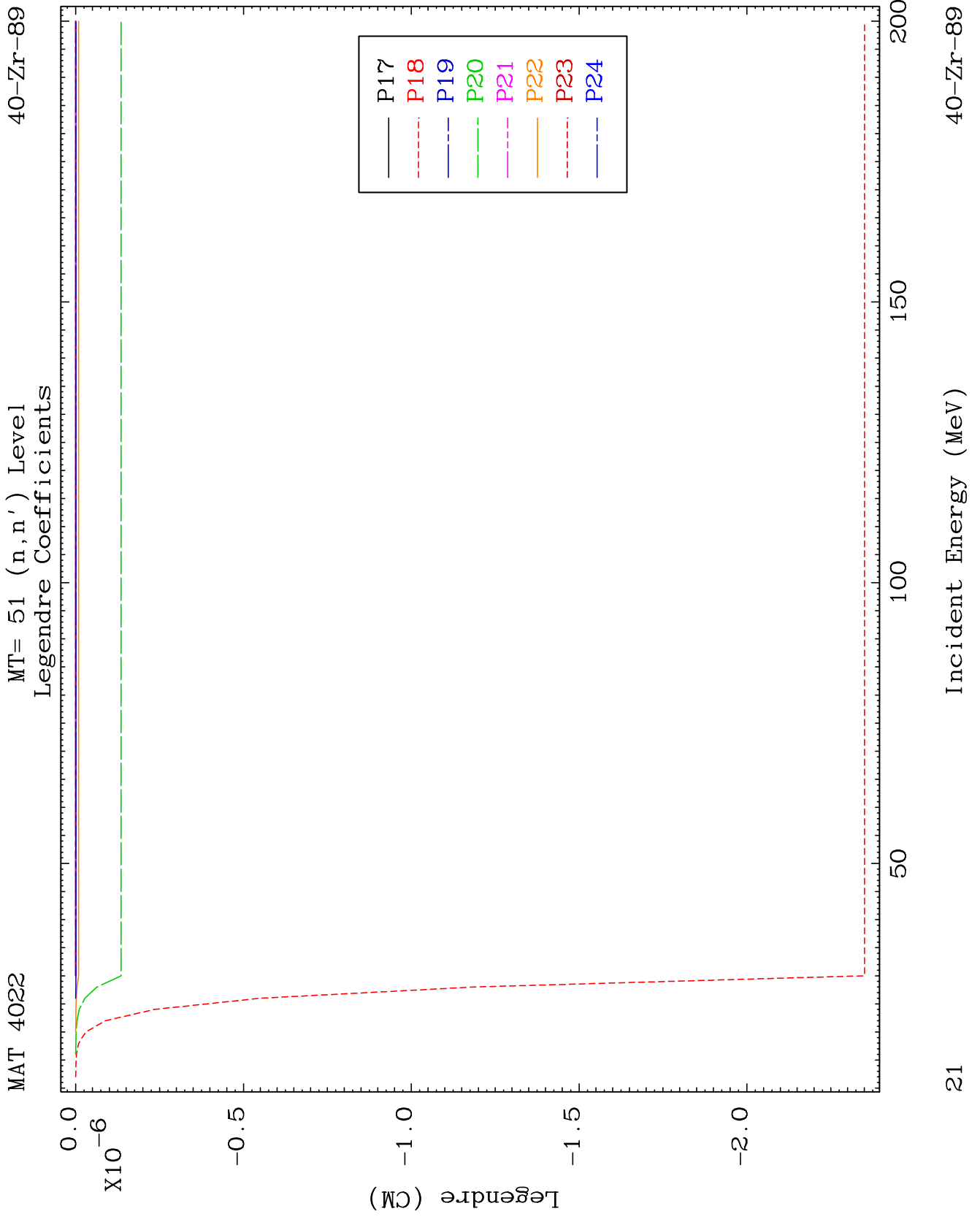
Incident Energy (MeV)

40-Zr-89





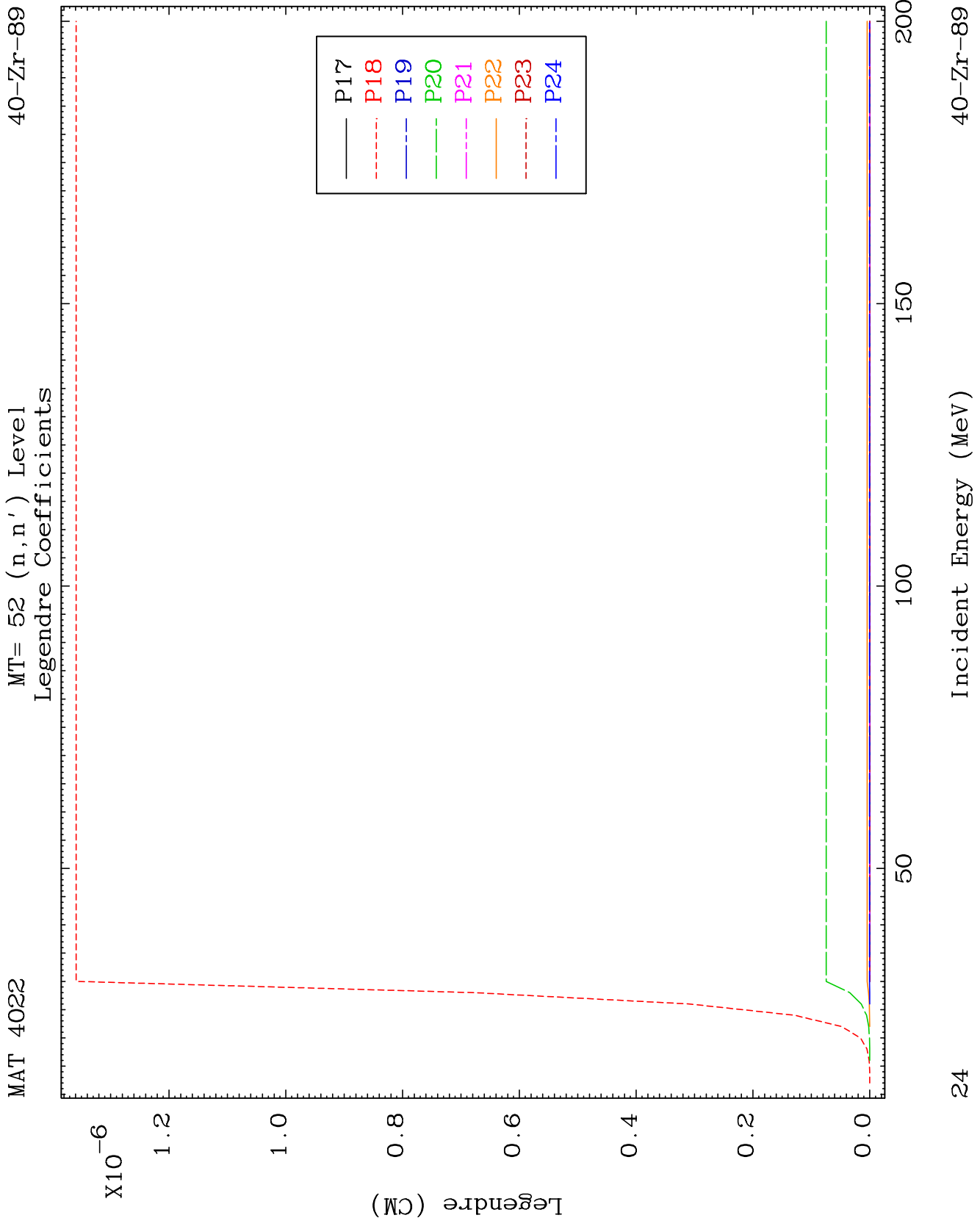


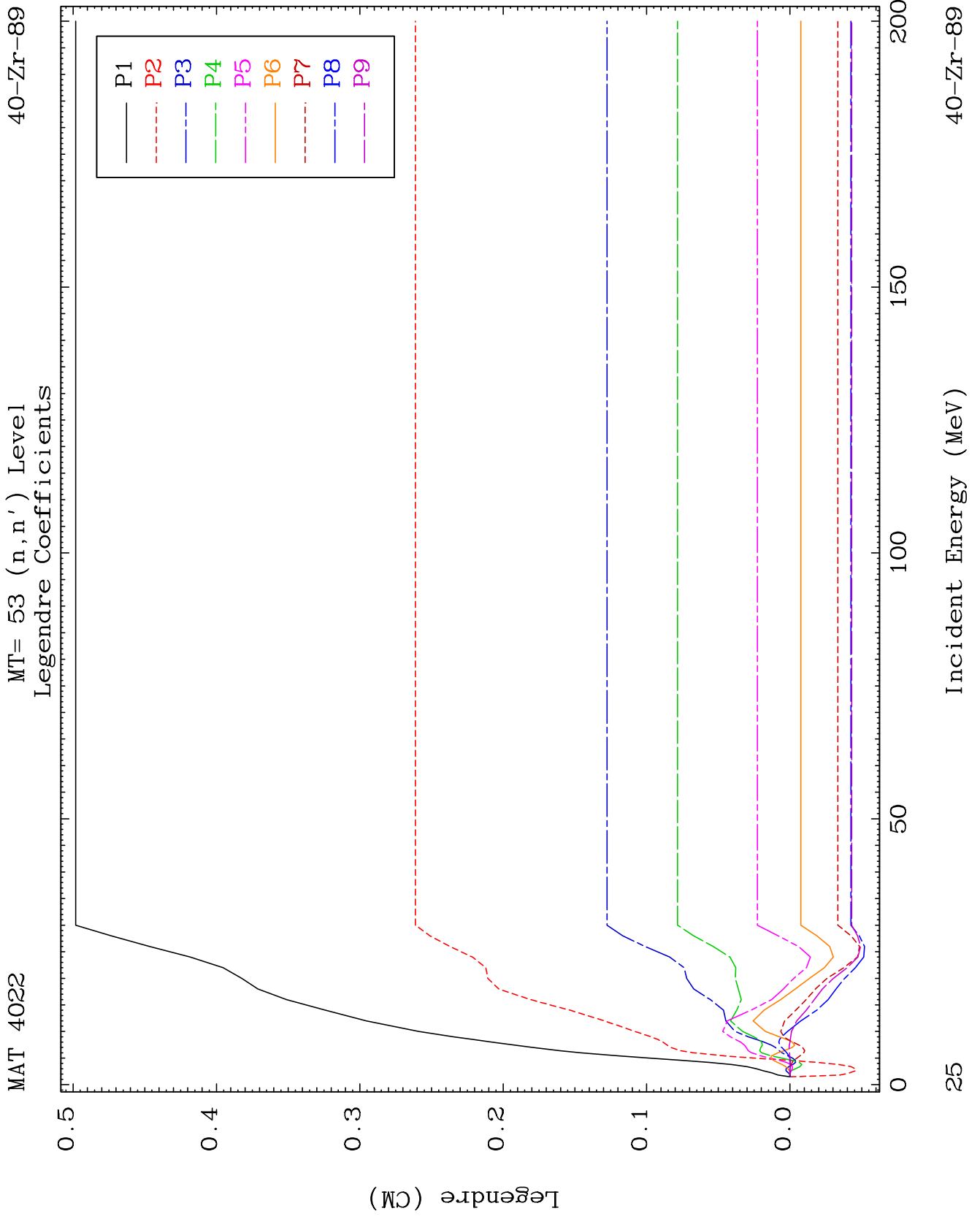








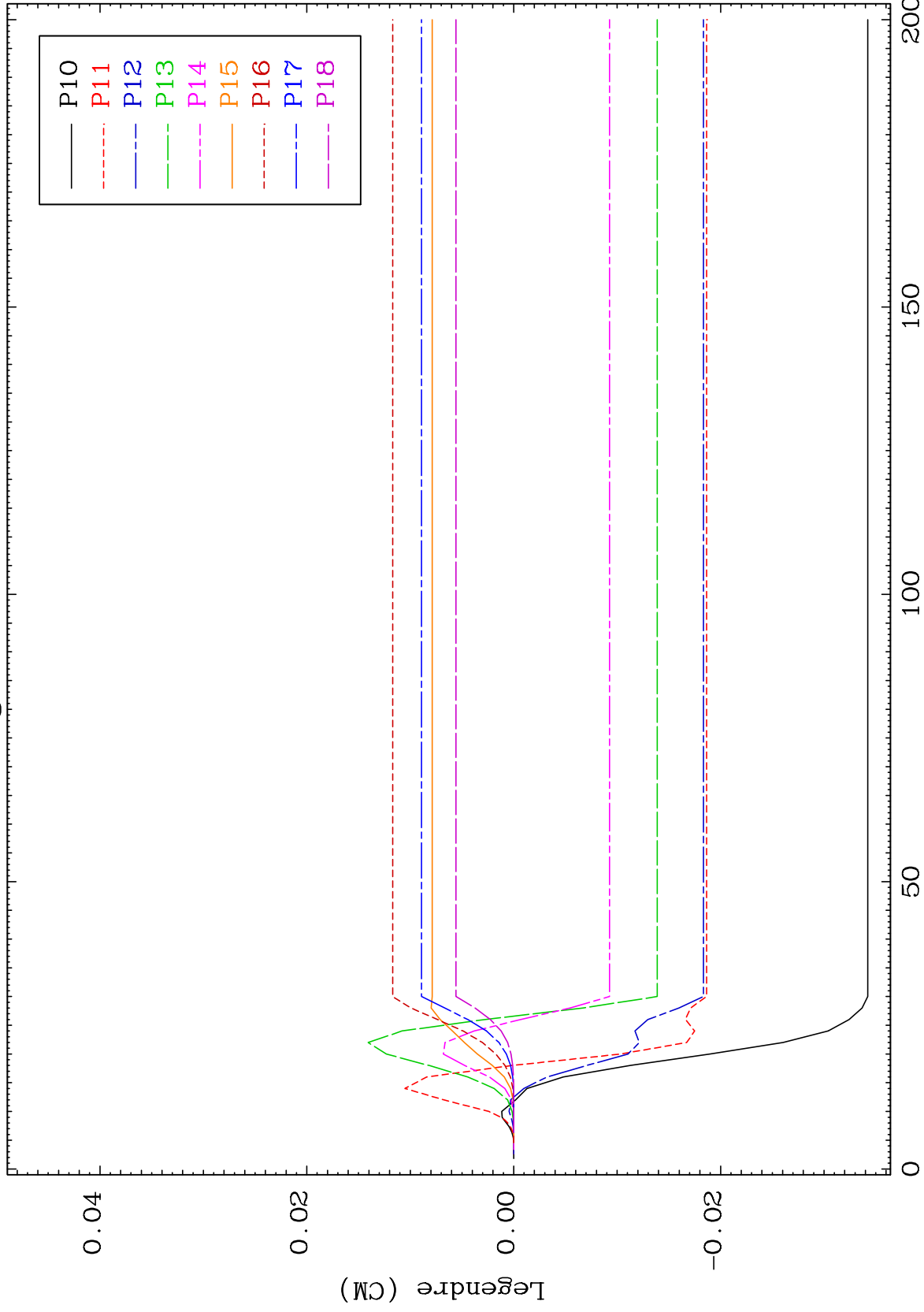




MAT 4022

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

40-Zr-89



26

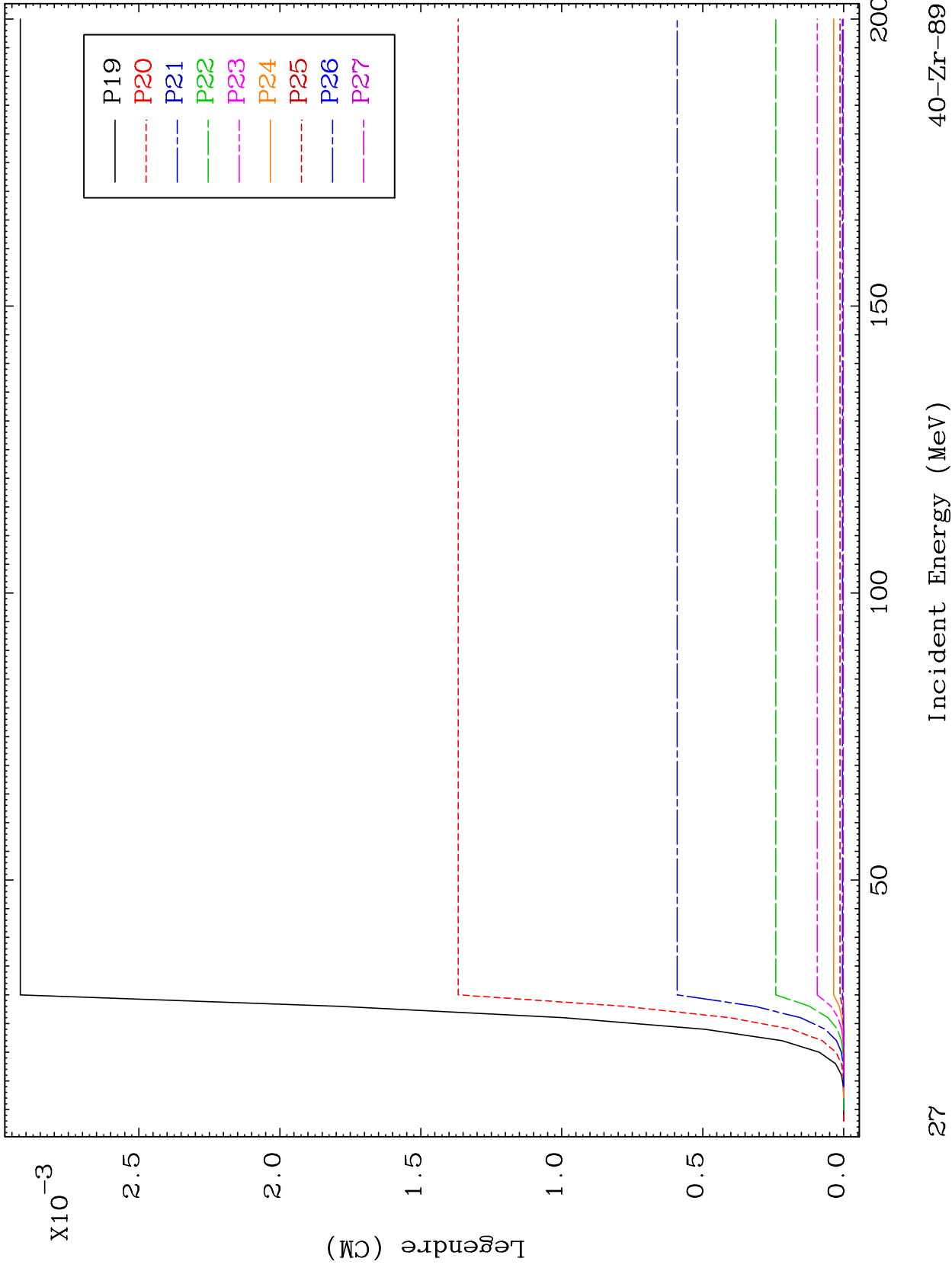
Incident Energy (MeV)

40-Zr-89

MAT 4022

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

40-Zr-89



27

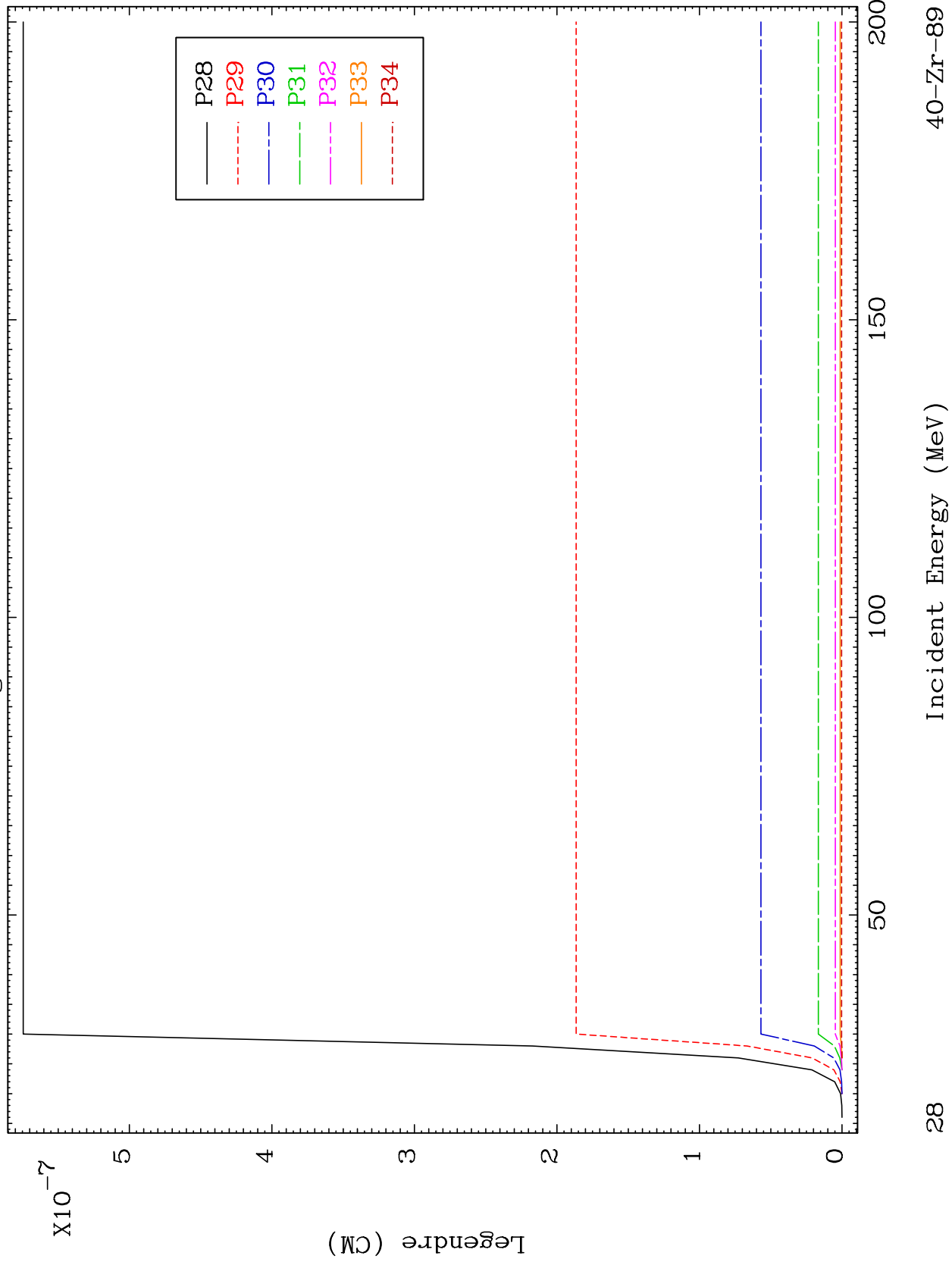
Incident Energy (MeV)

40-Zr-89

MAT 4022

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

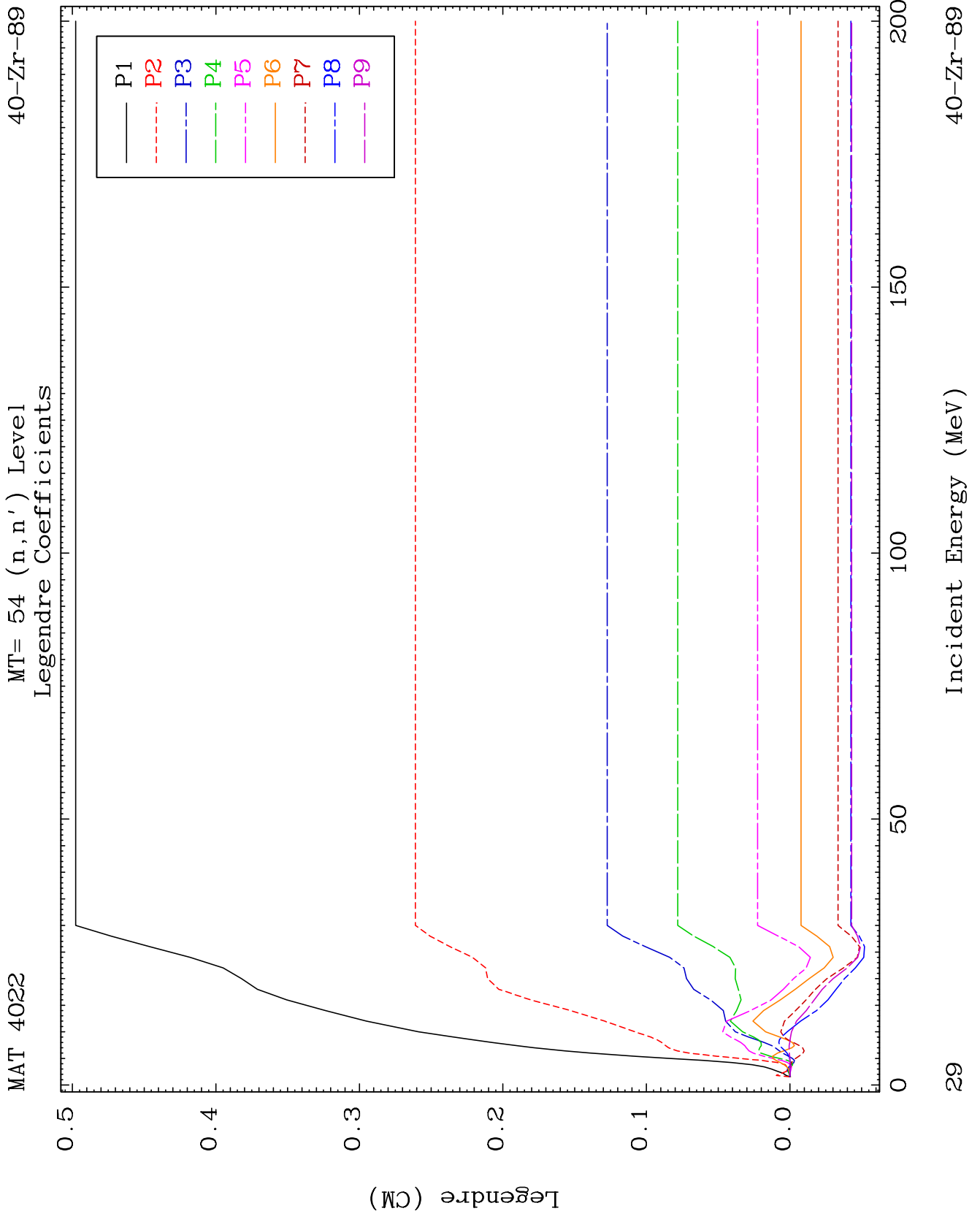
40-Zr-89



28

Incident Energy (MeV)

40-Zr-89

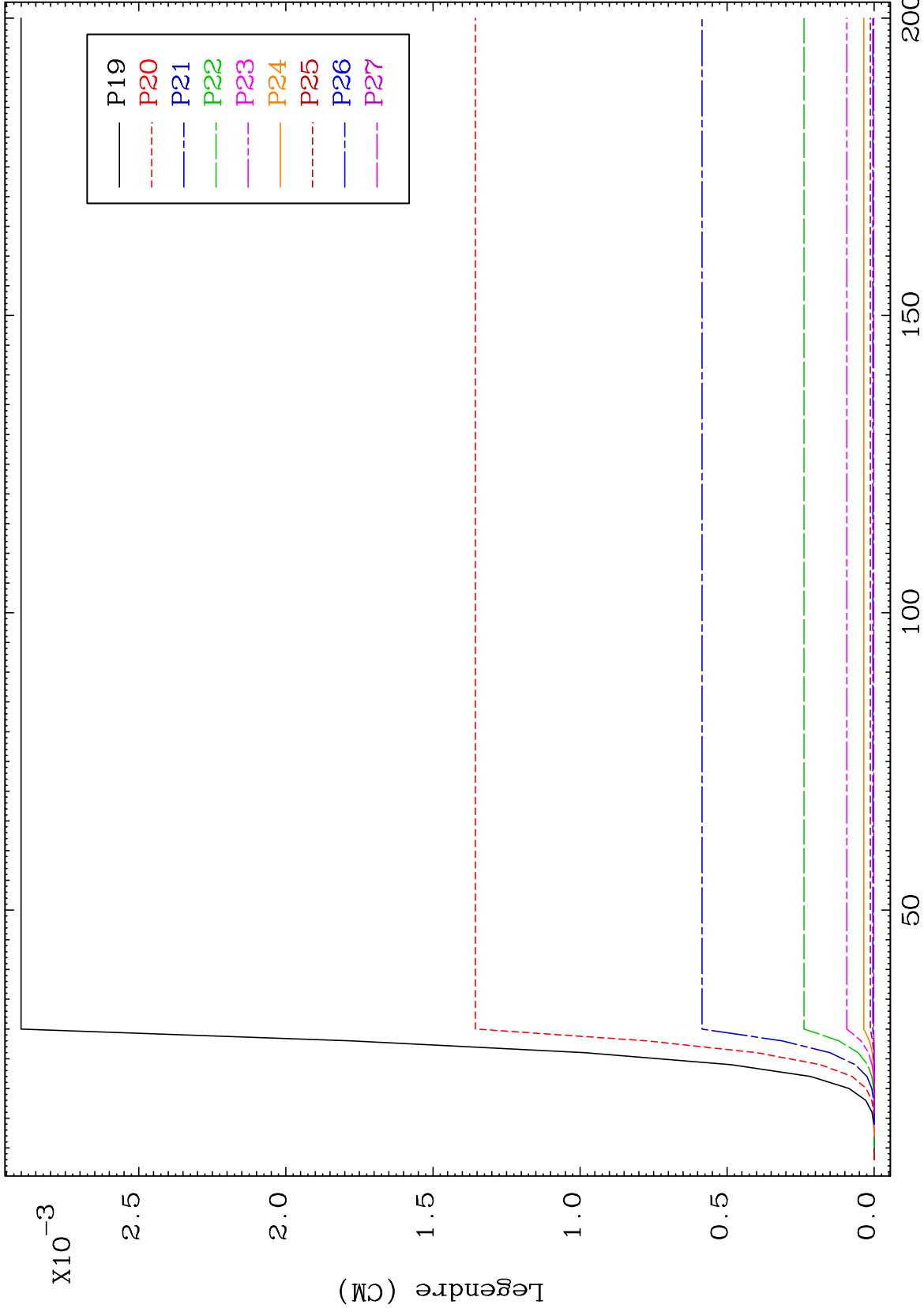




MAT 4022

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

40-Zr-89



31

Incident Energy (MeV)

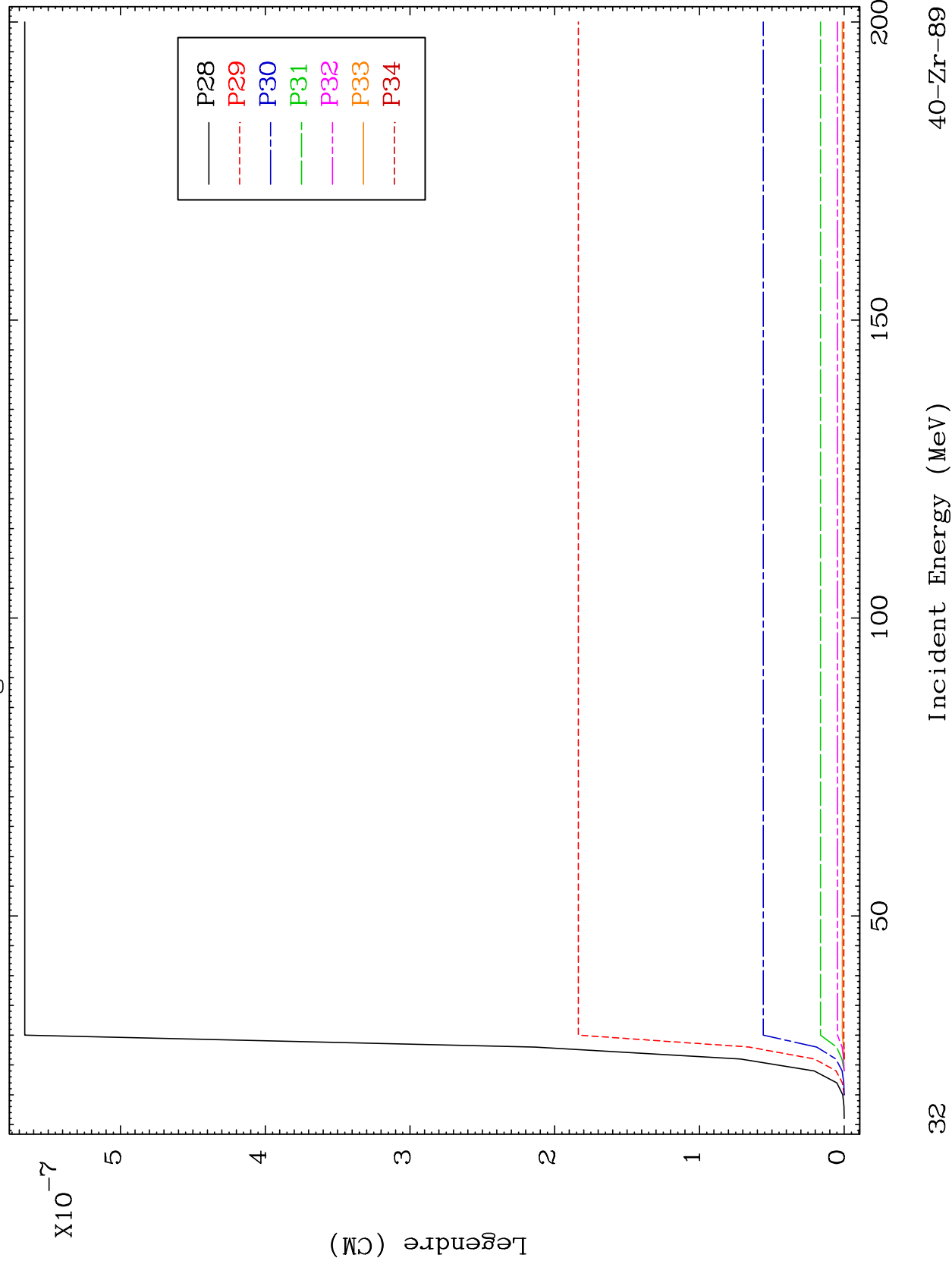
40-Zr-89



MAT 4022

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

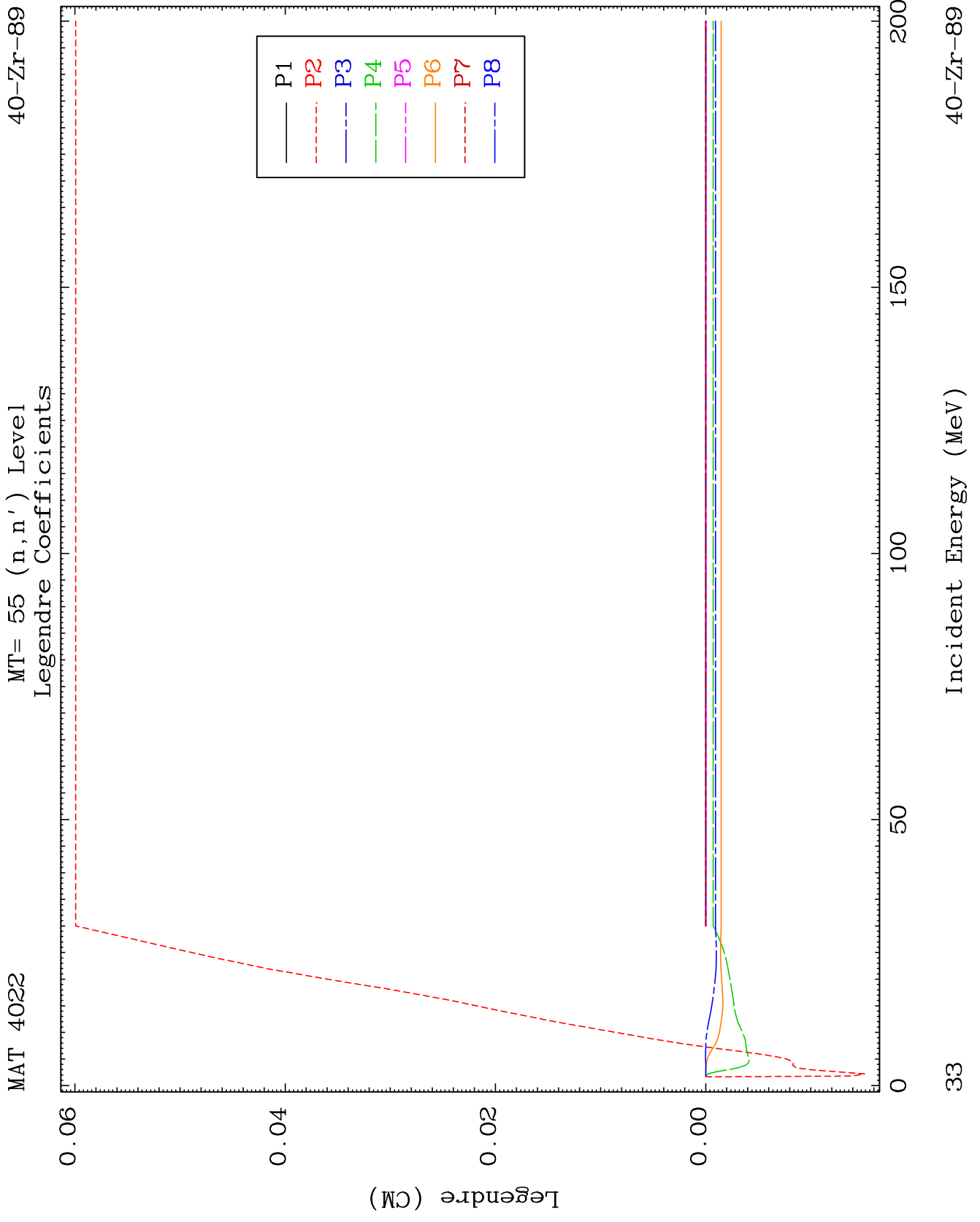
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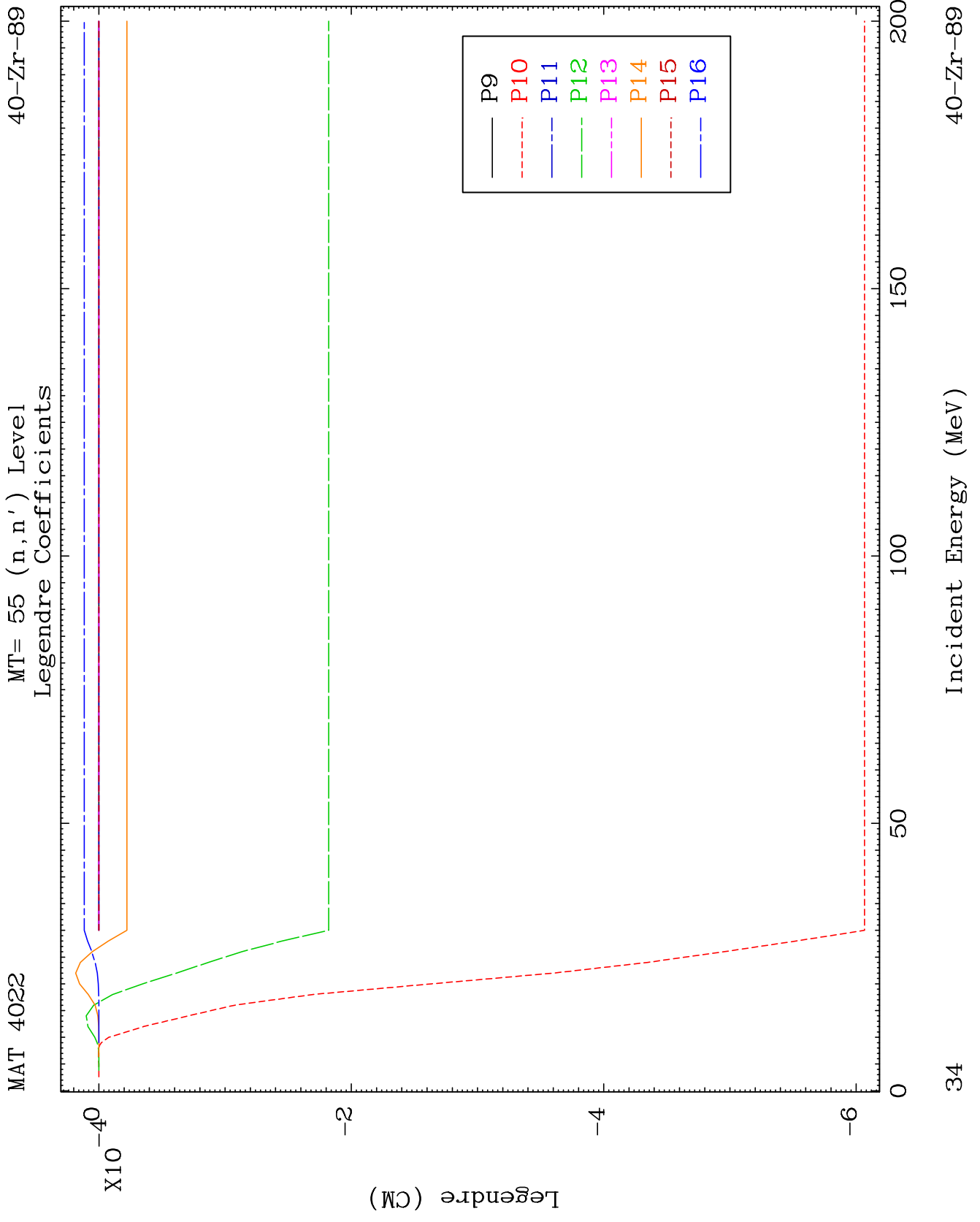


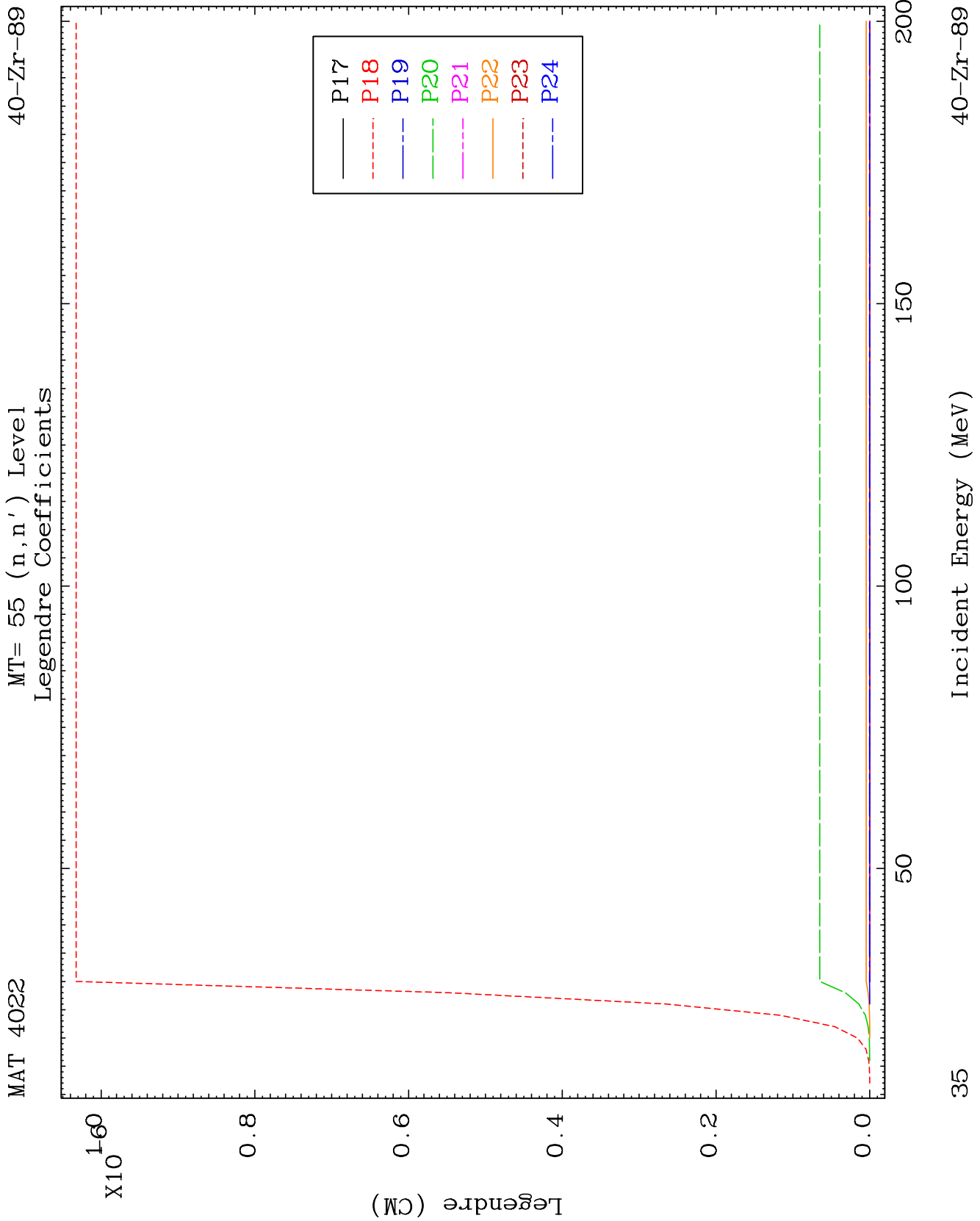
32

Incident Energy (MeV)

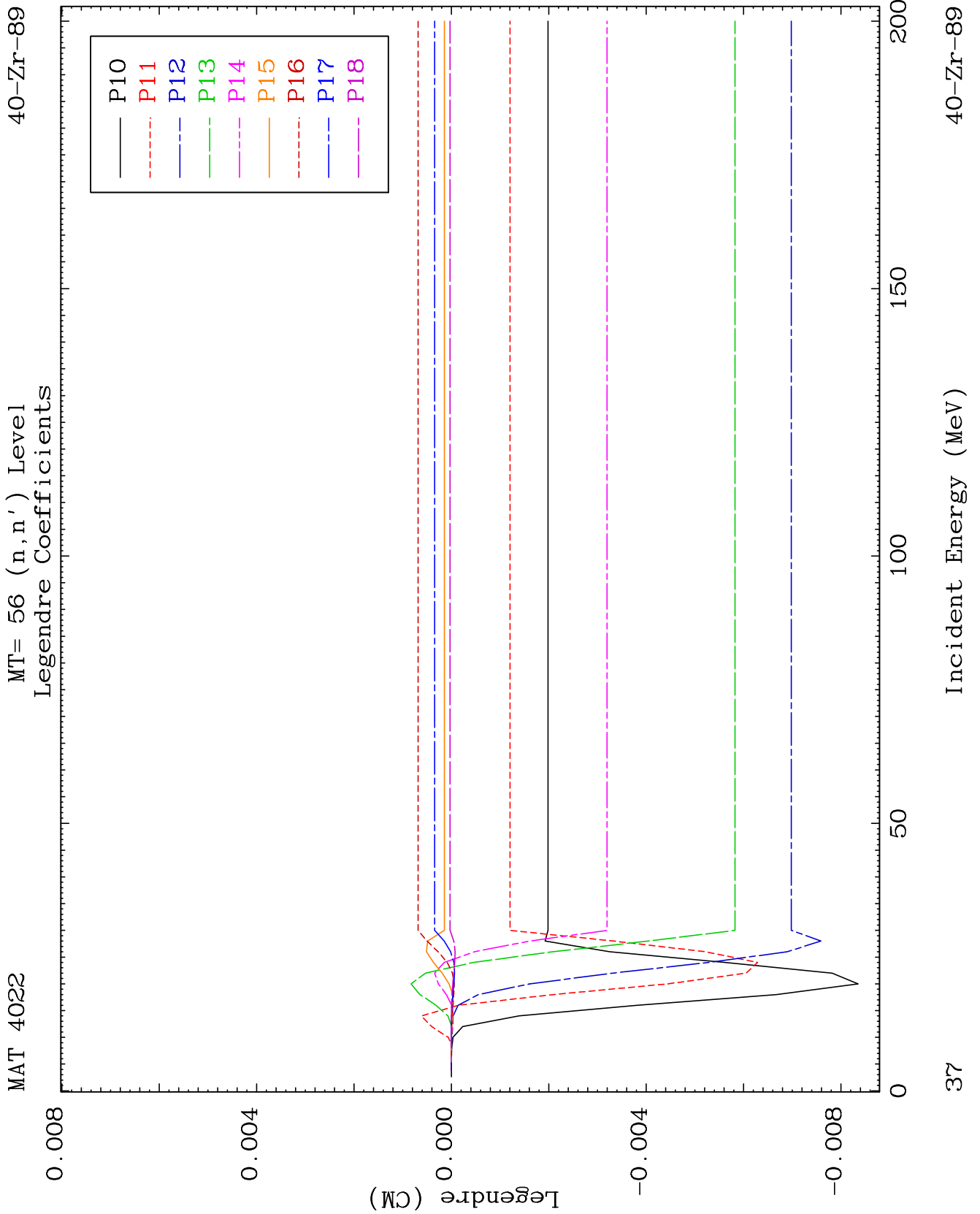
40-Zr-89







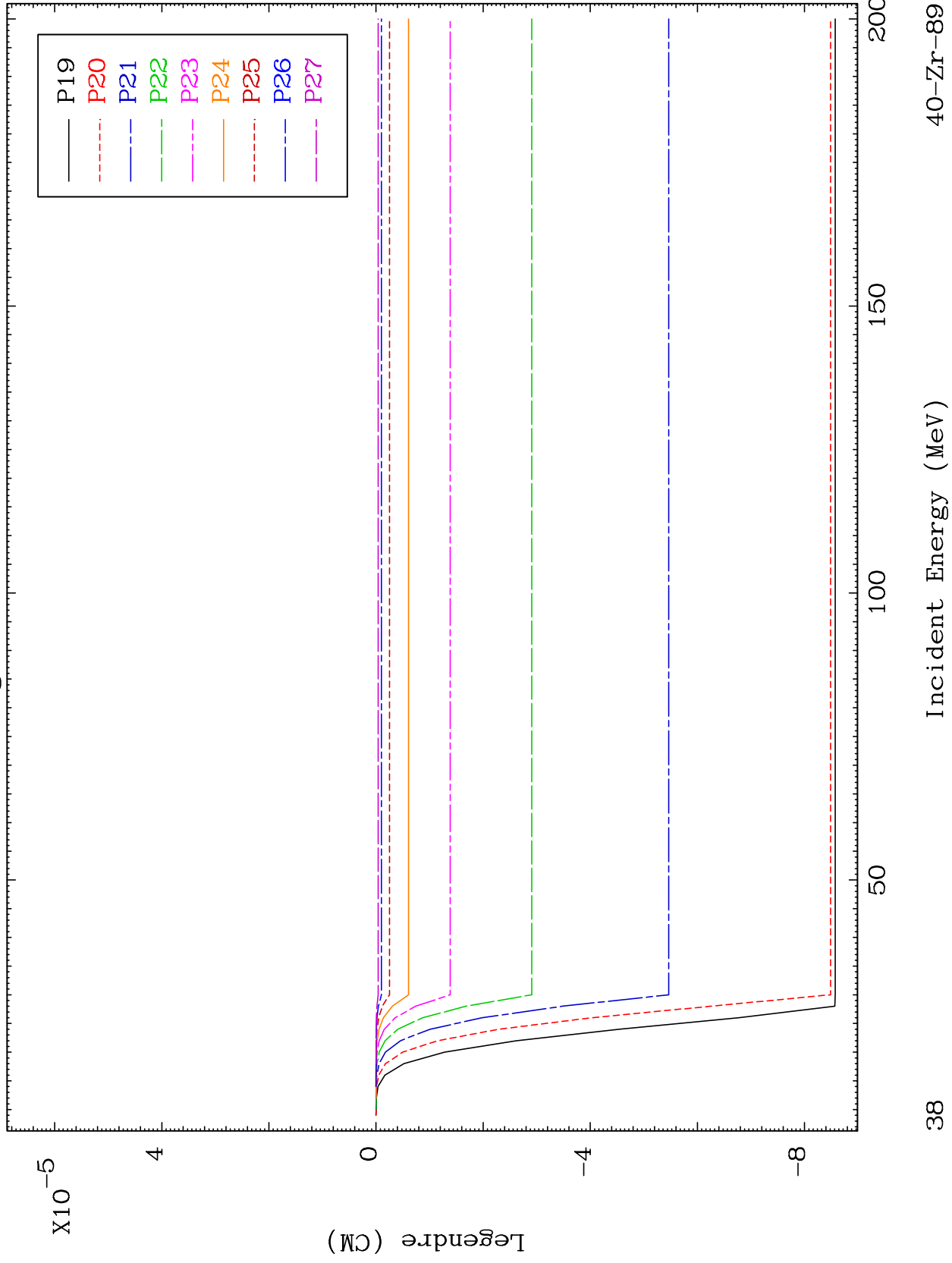




MAT 4022

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

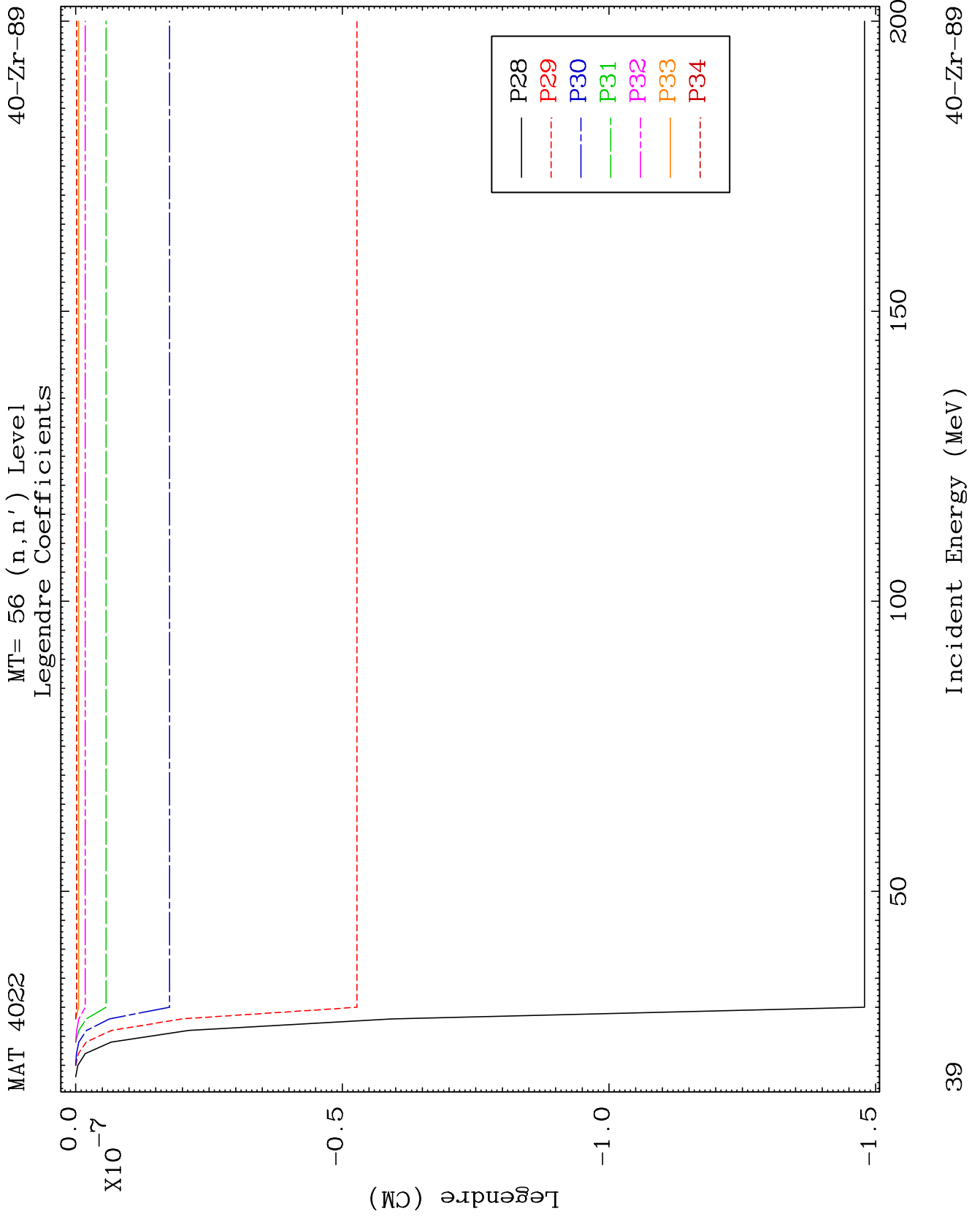
40-Zr-89



38

Incident Energy (MeV)

40-Zr-89



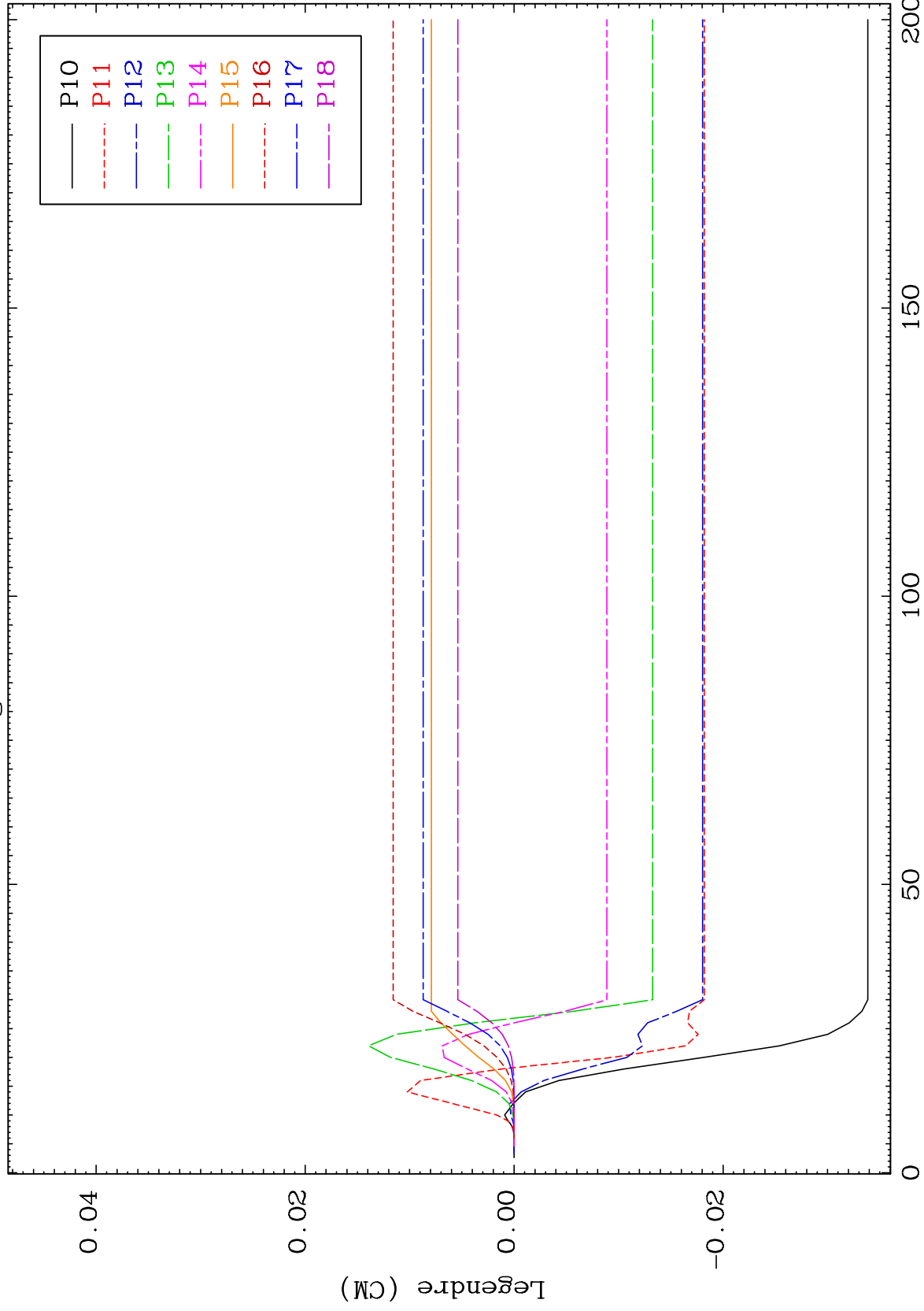




MAT 4022

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

40-Zr-89



41

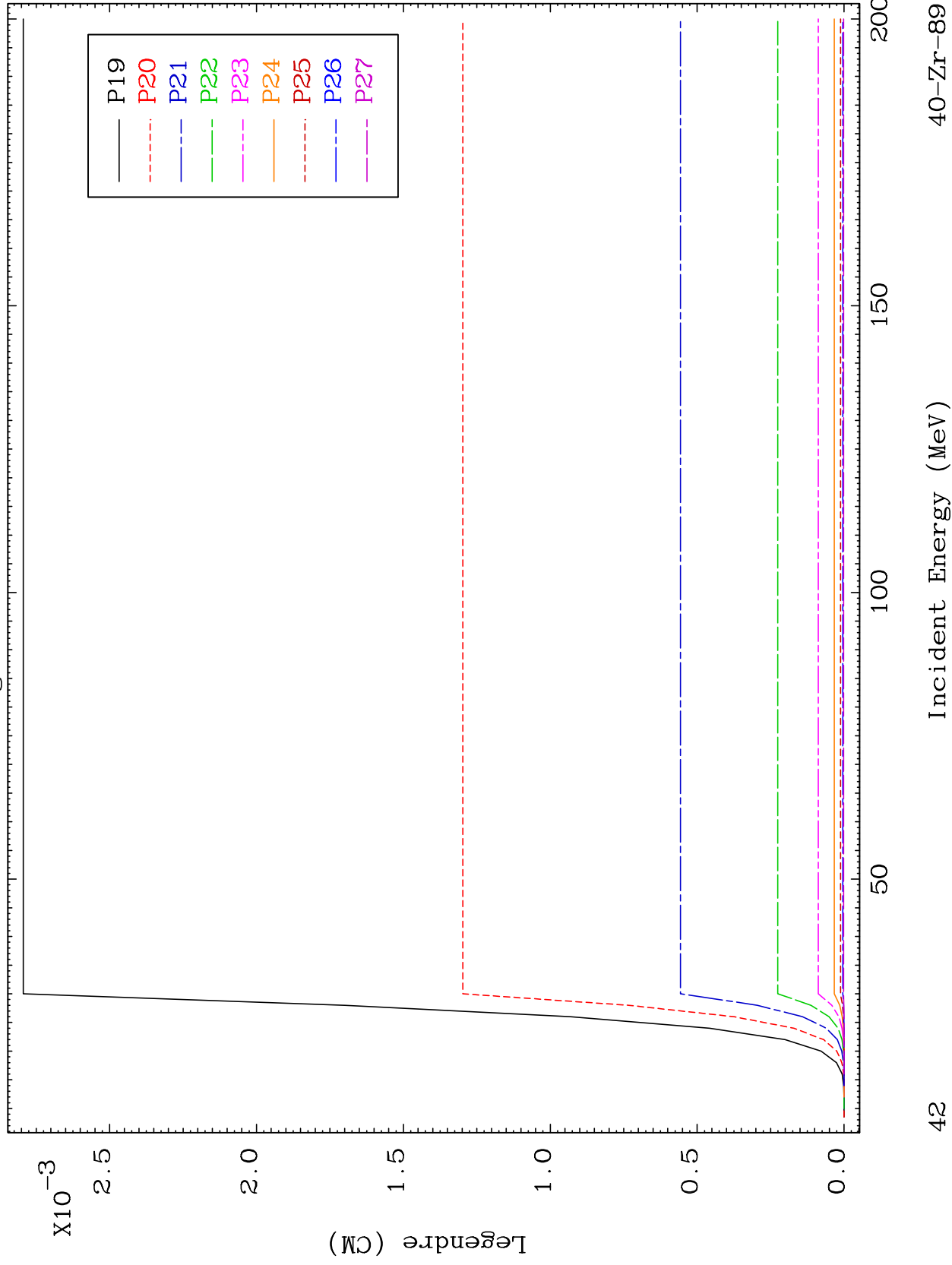
Incident Energy (MeV)

40-Zr-89

MAT 4022

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

40-Zr-89

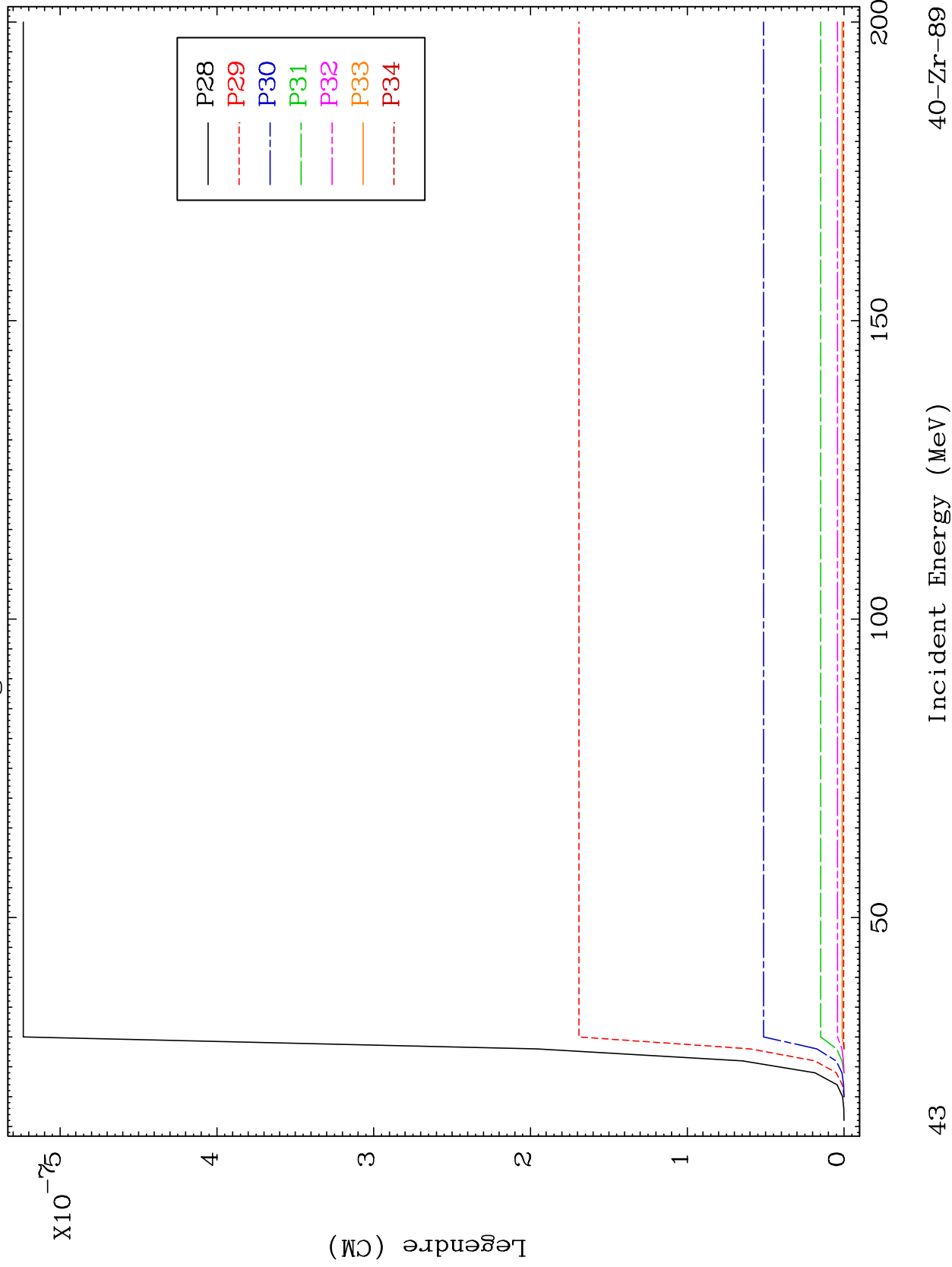


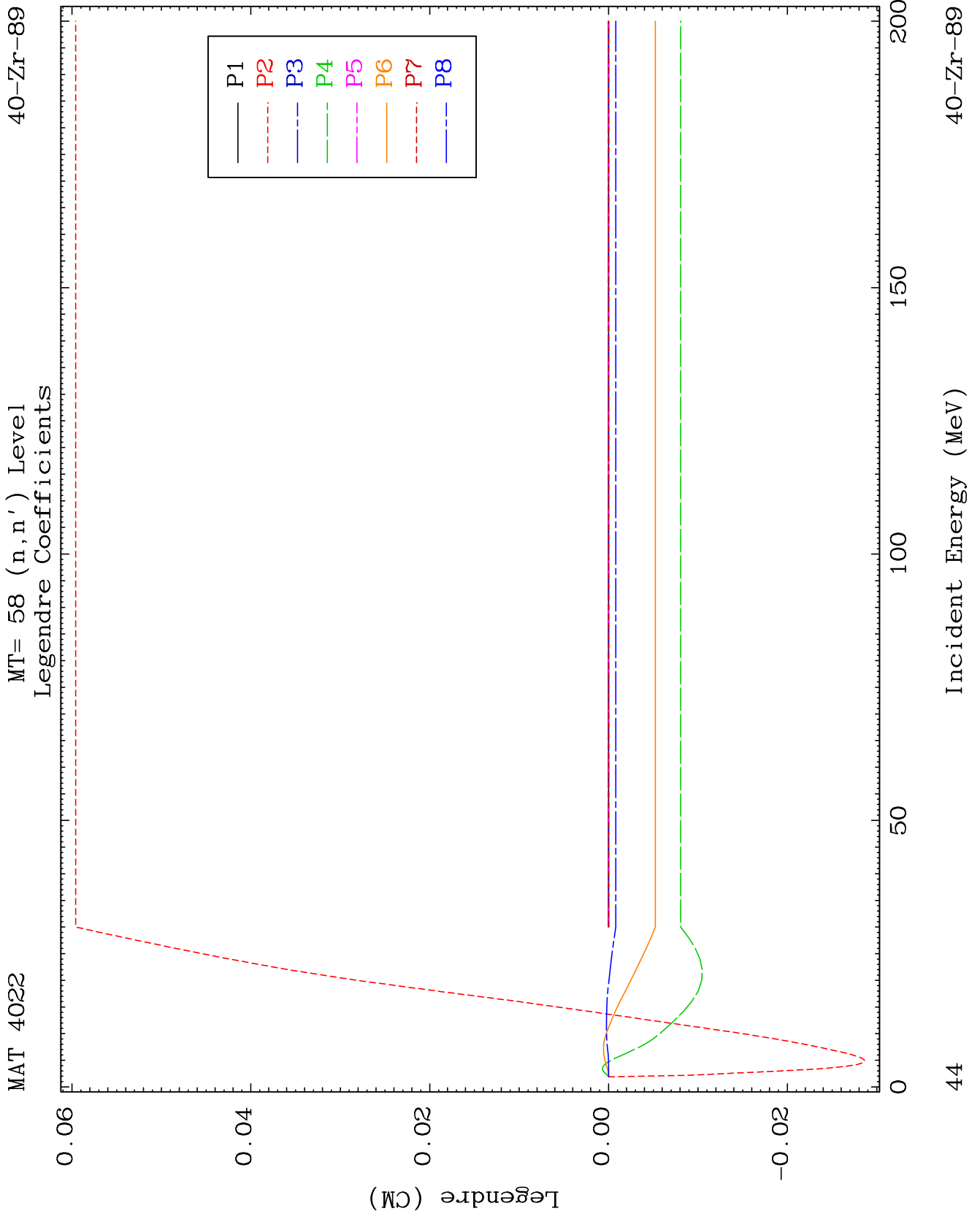
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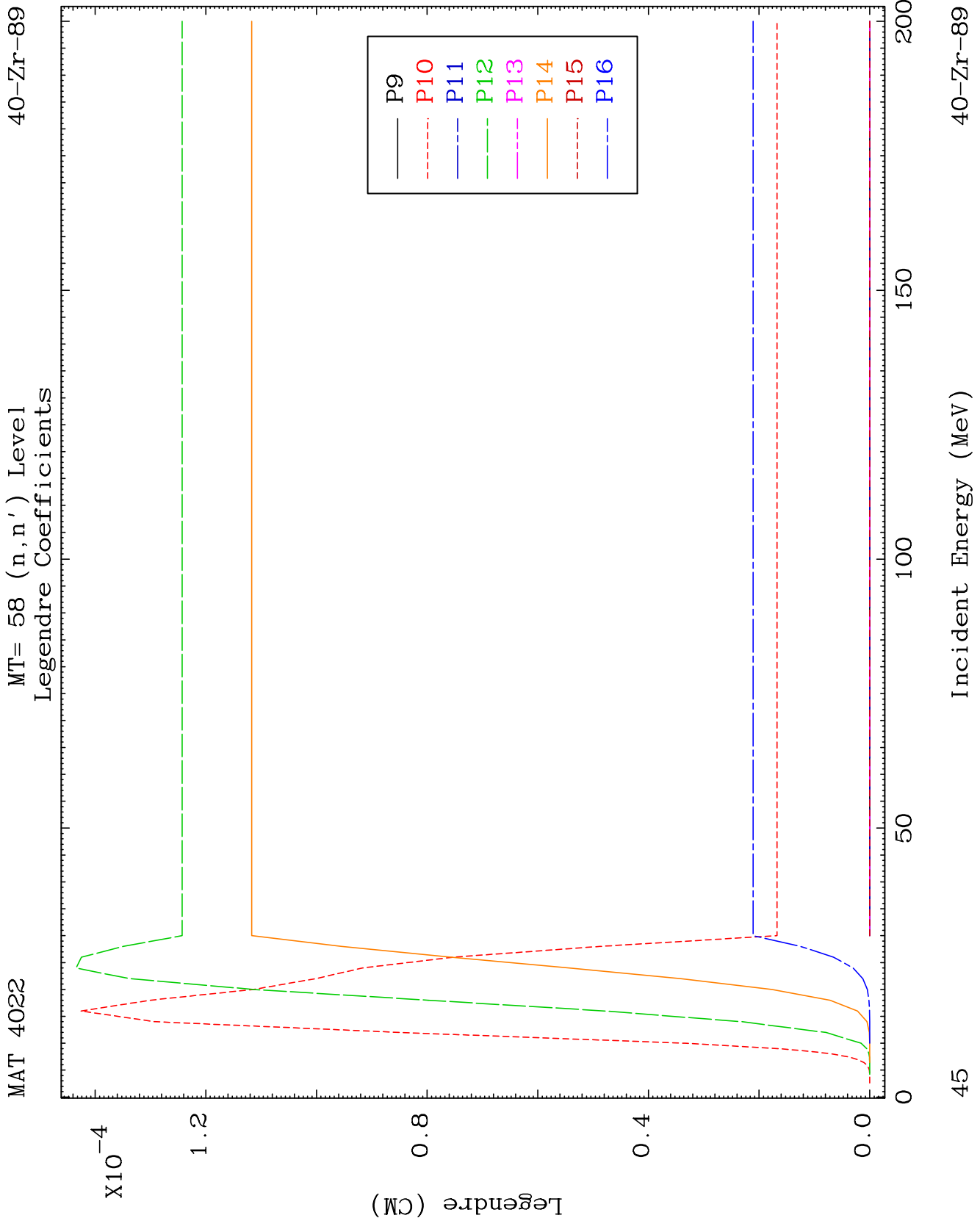
MAT 4022

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

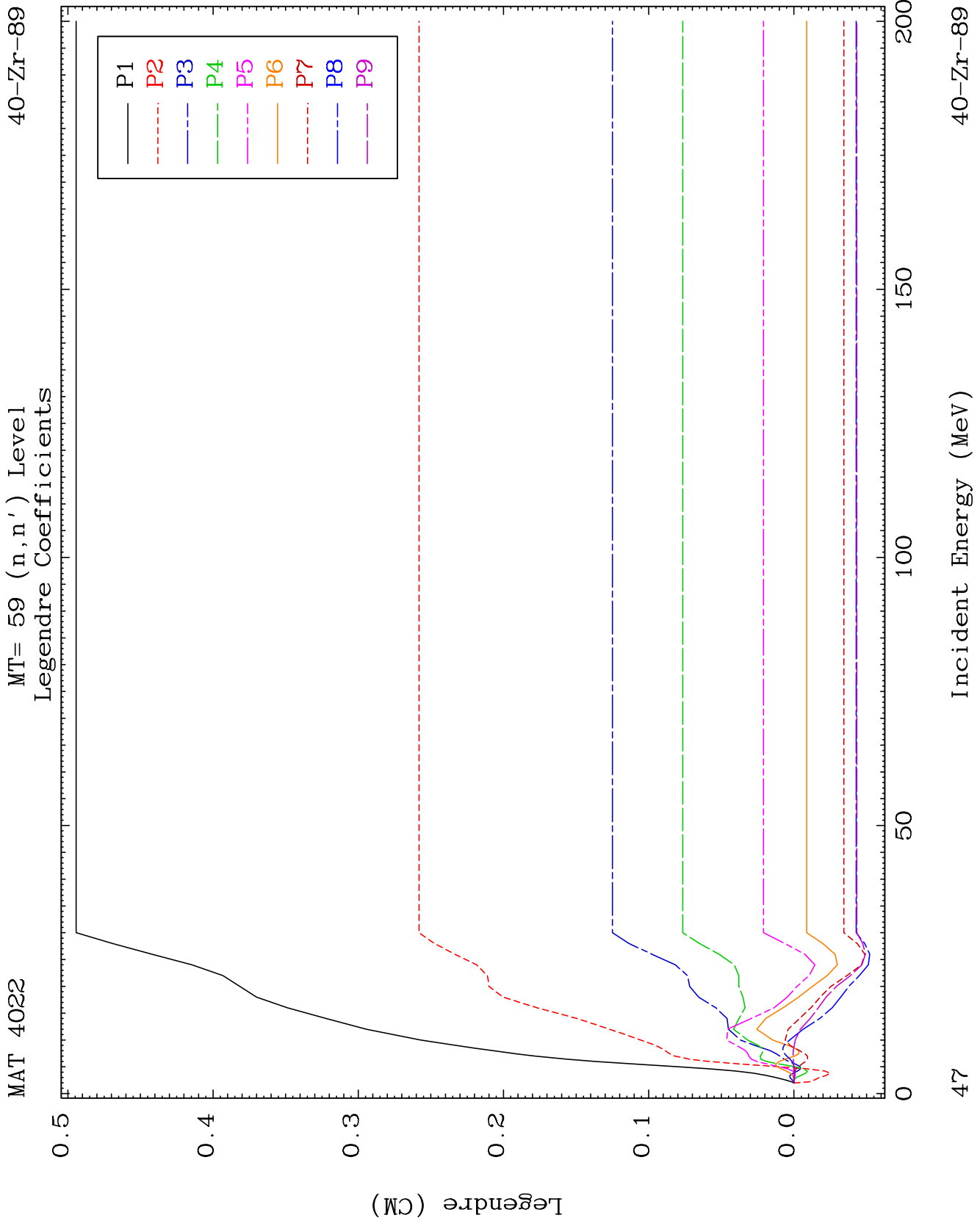
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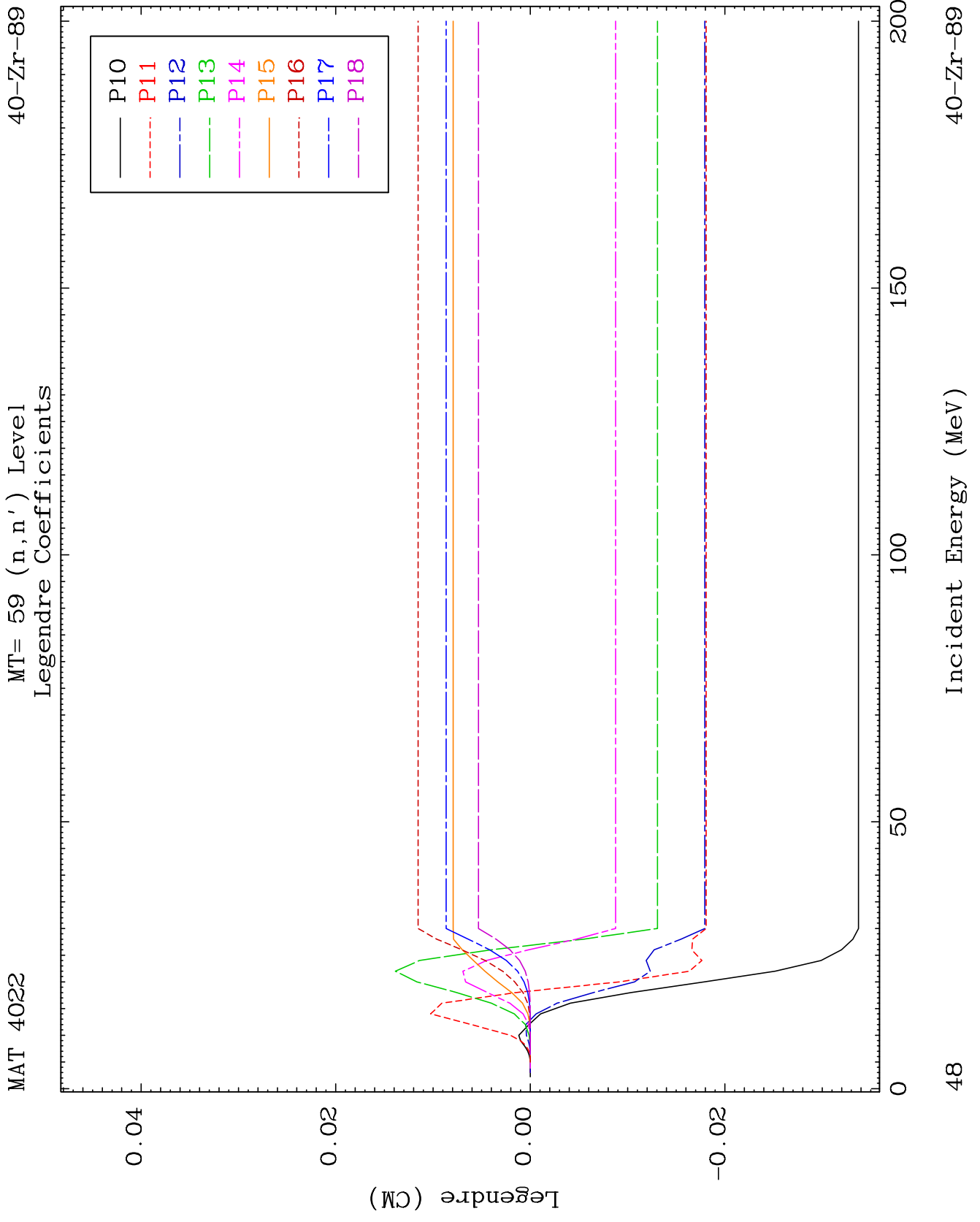








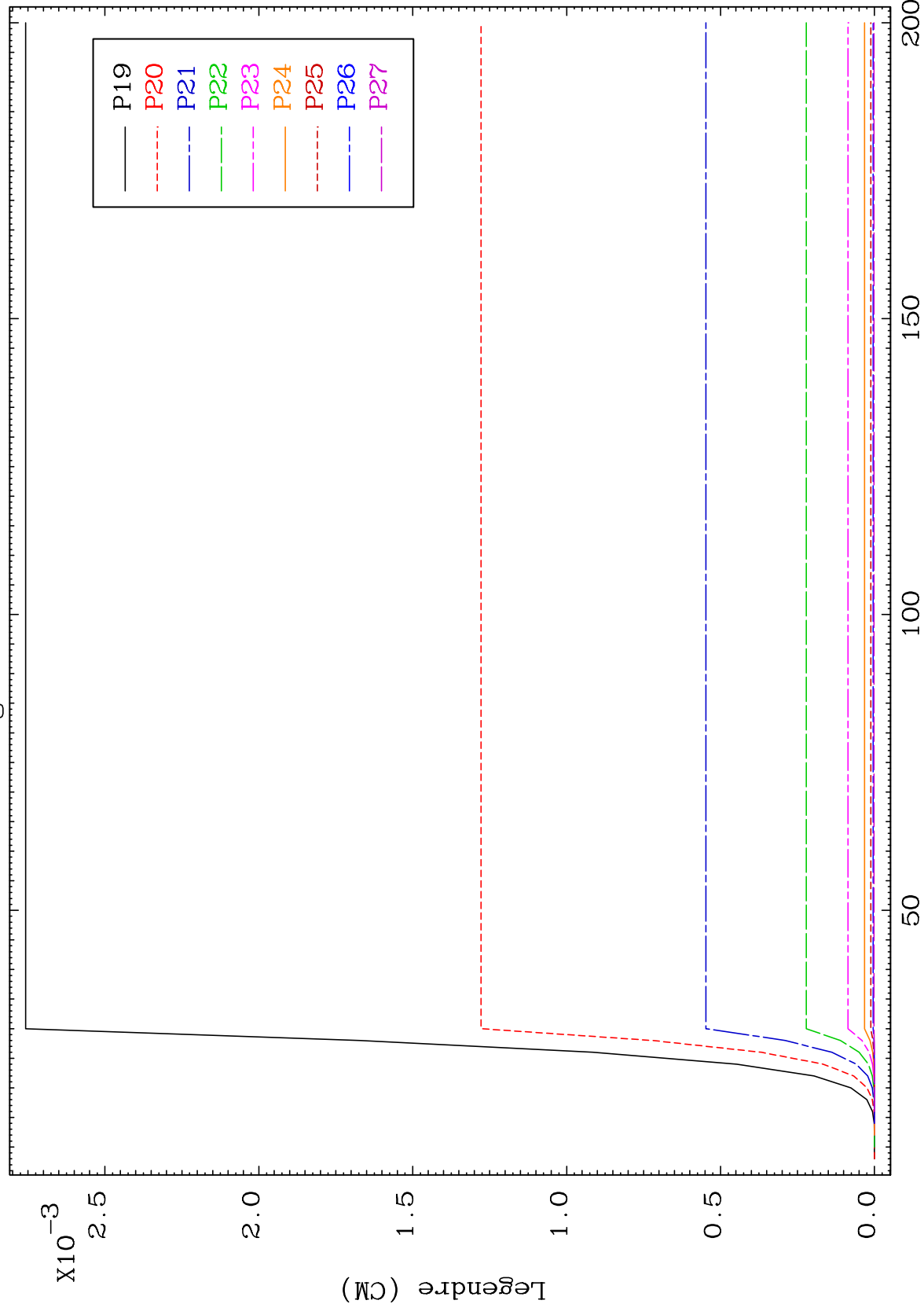




MAT 4022

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

40-Zr-89



49

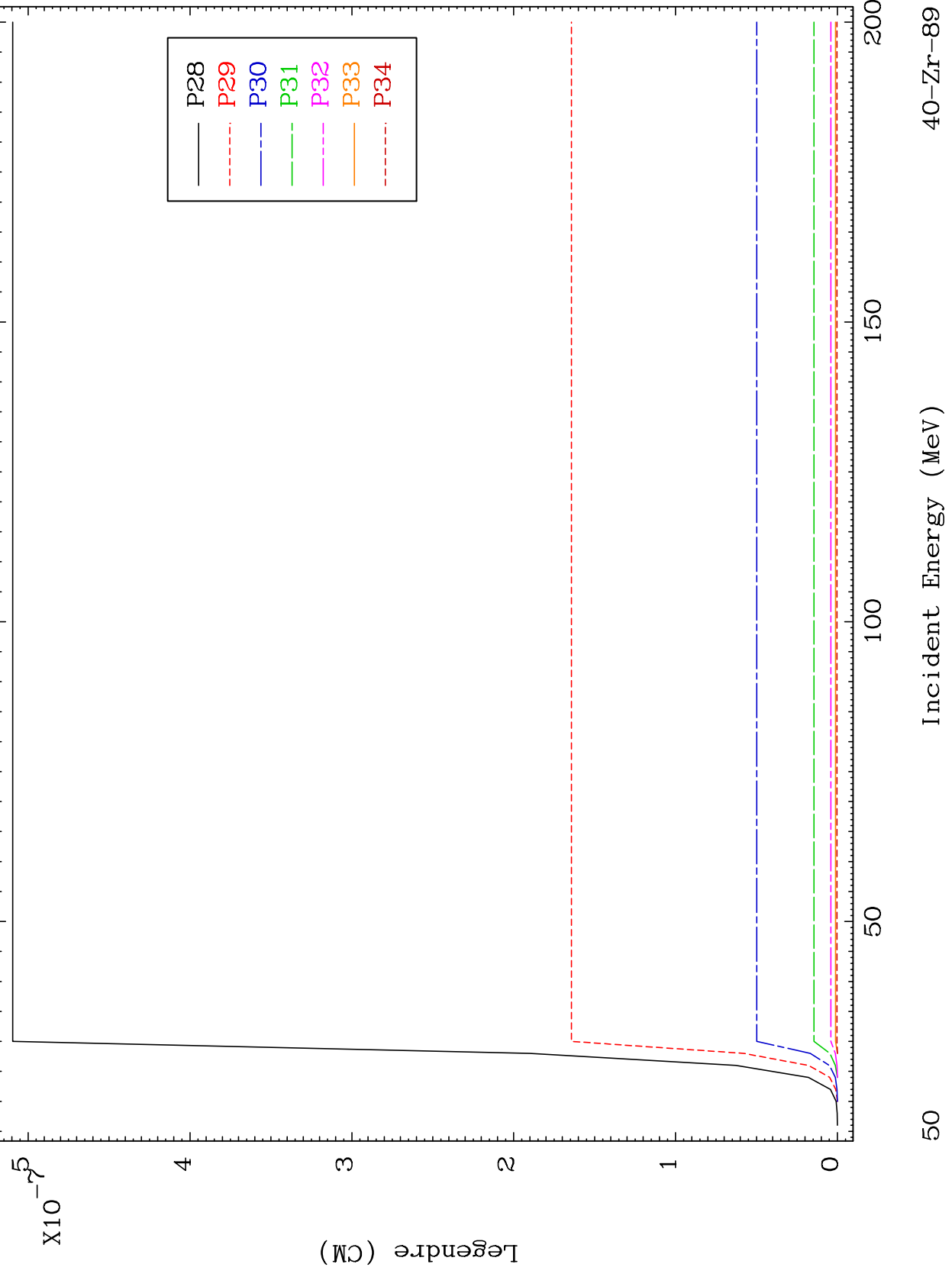
Incident Energy (MeV)

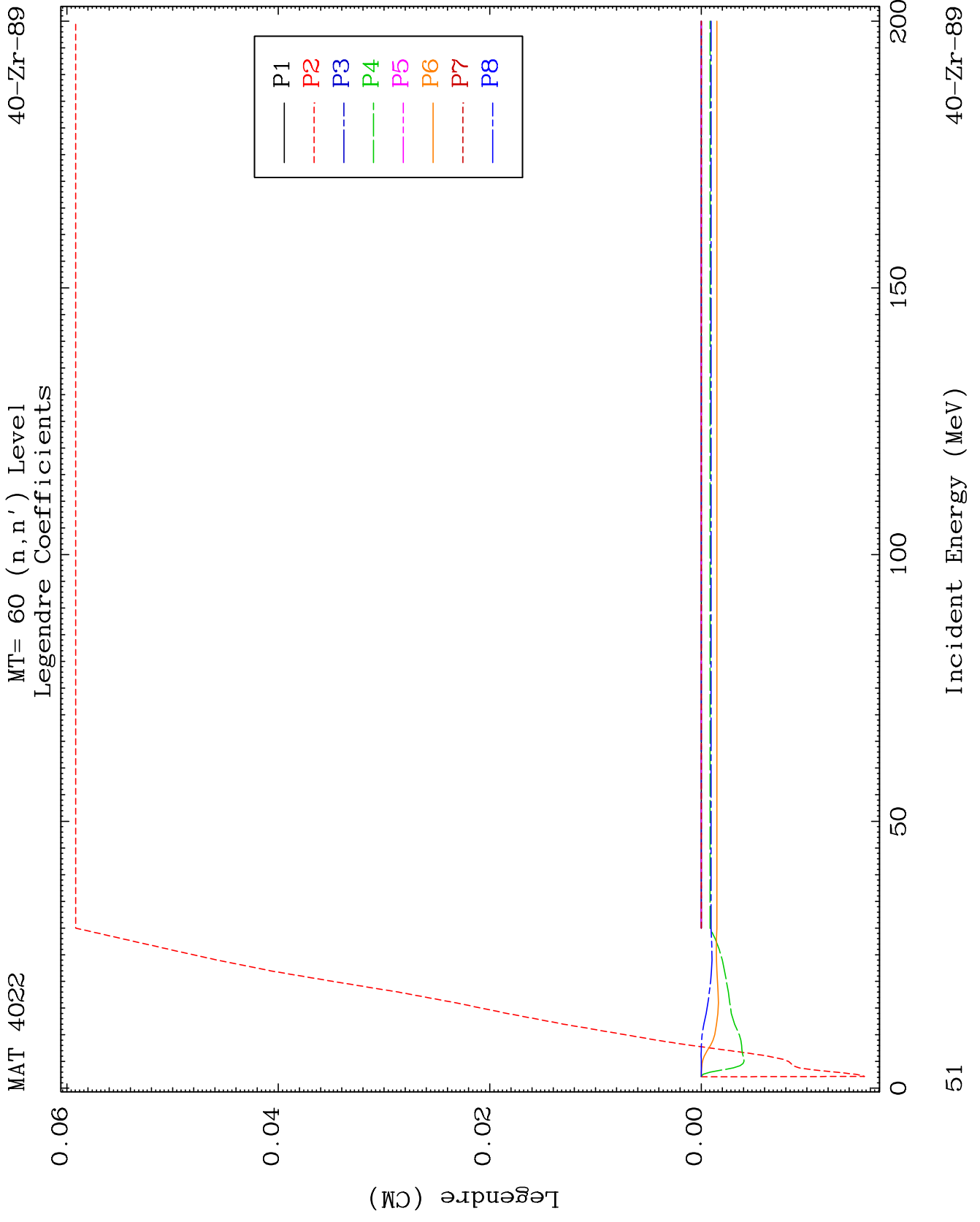
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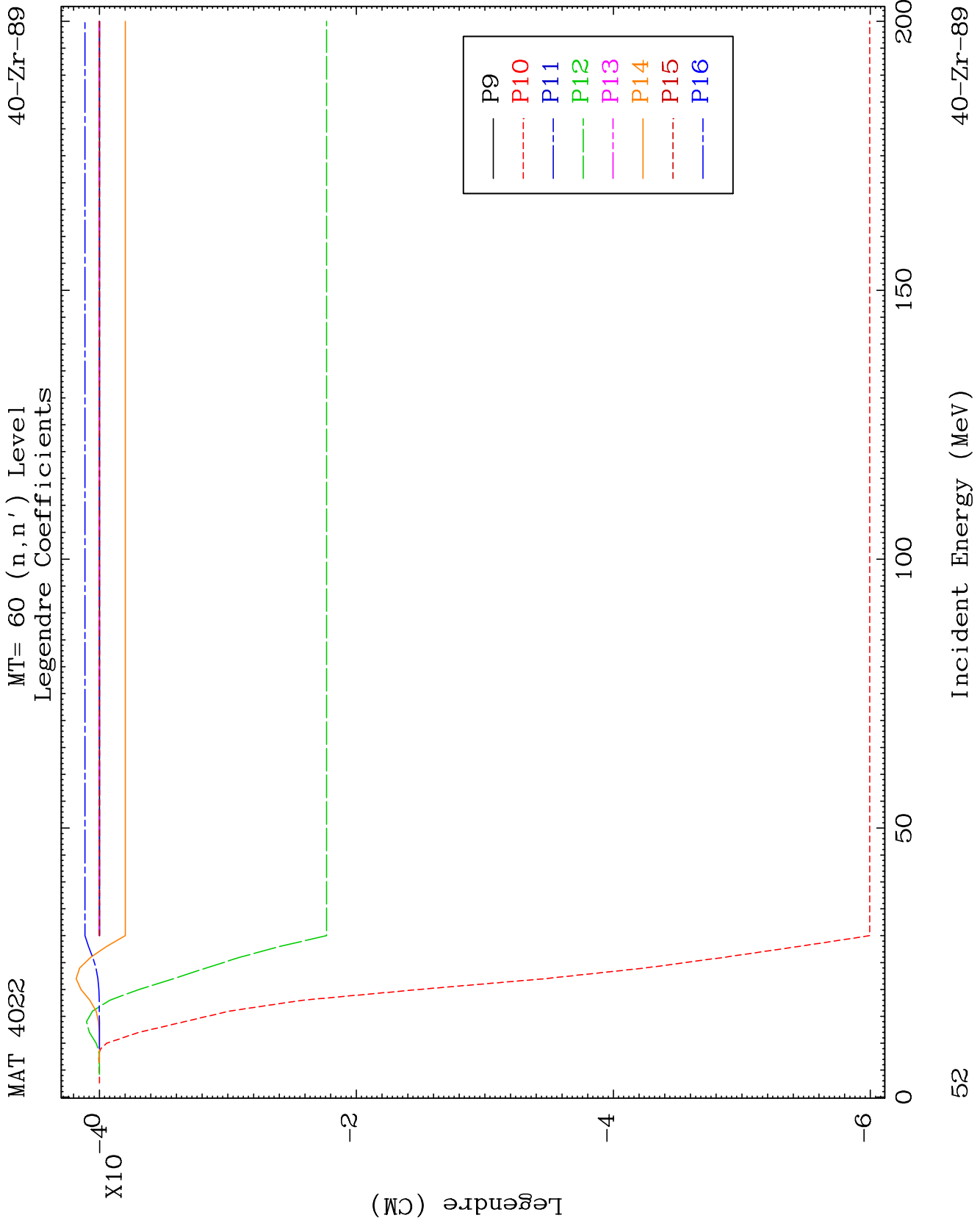
MAT 4022

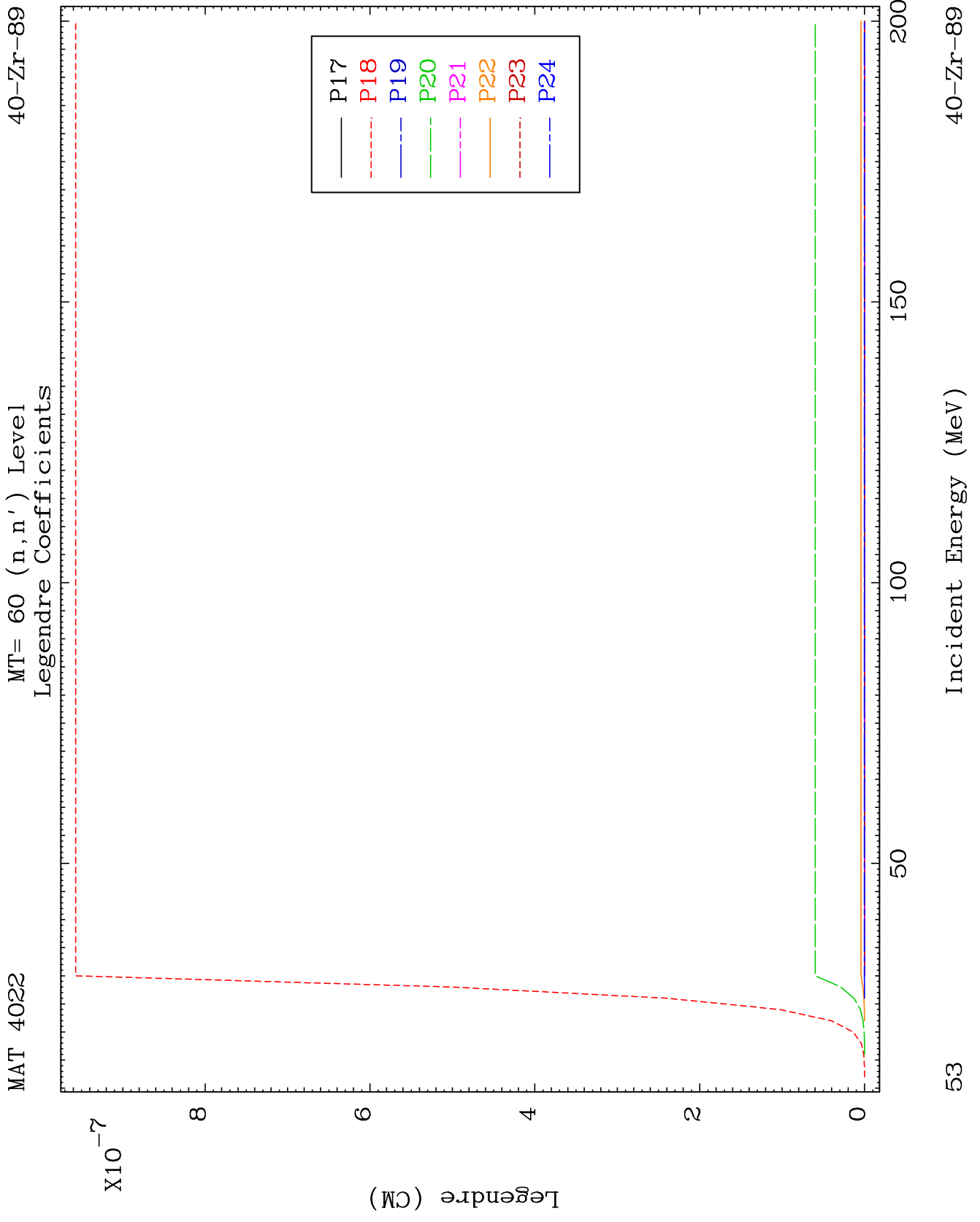
MT= 59 (n,n') Level  
Legendre Coefficients

40-Zr-89





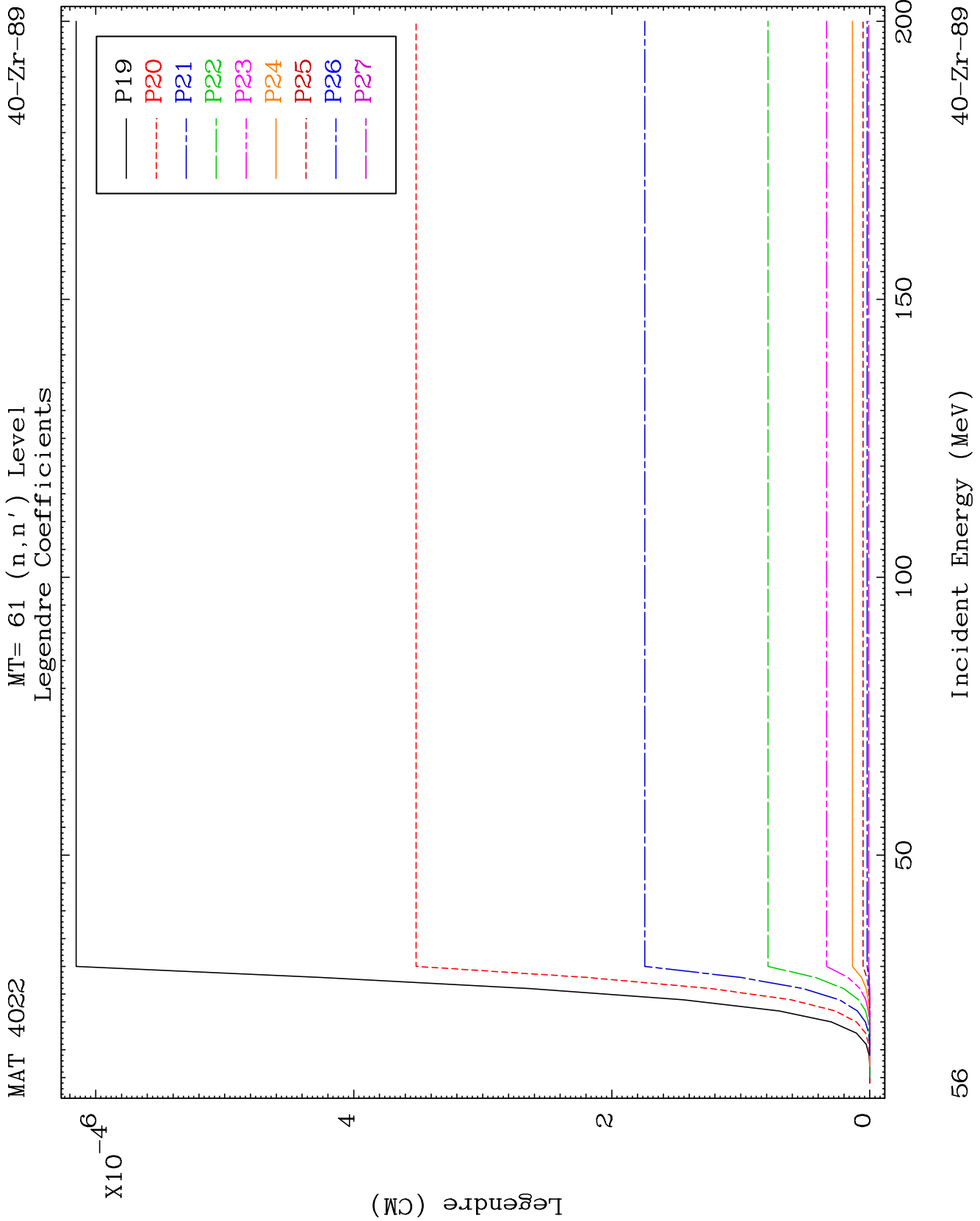


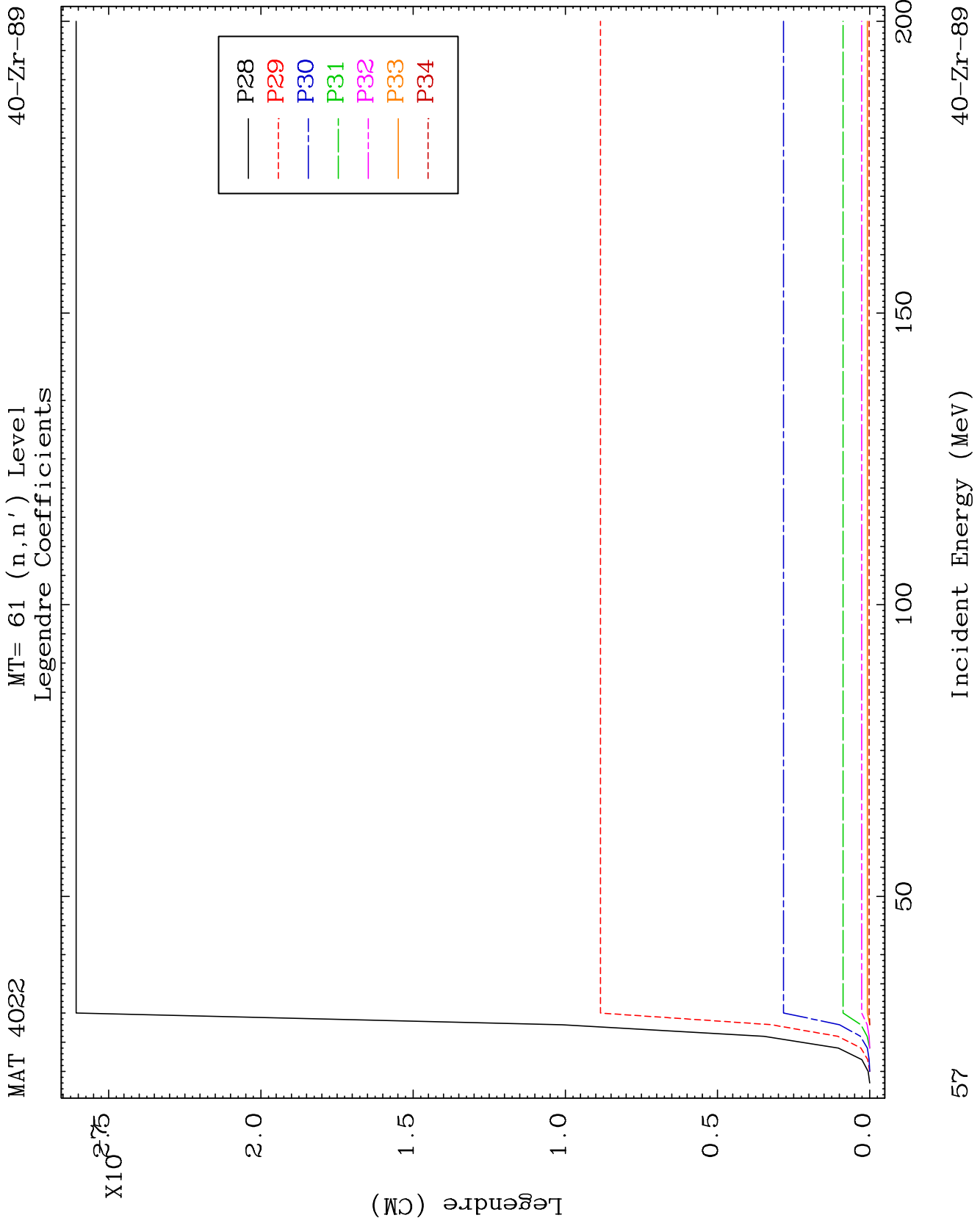


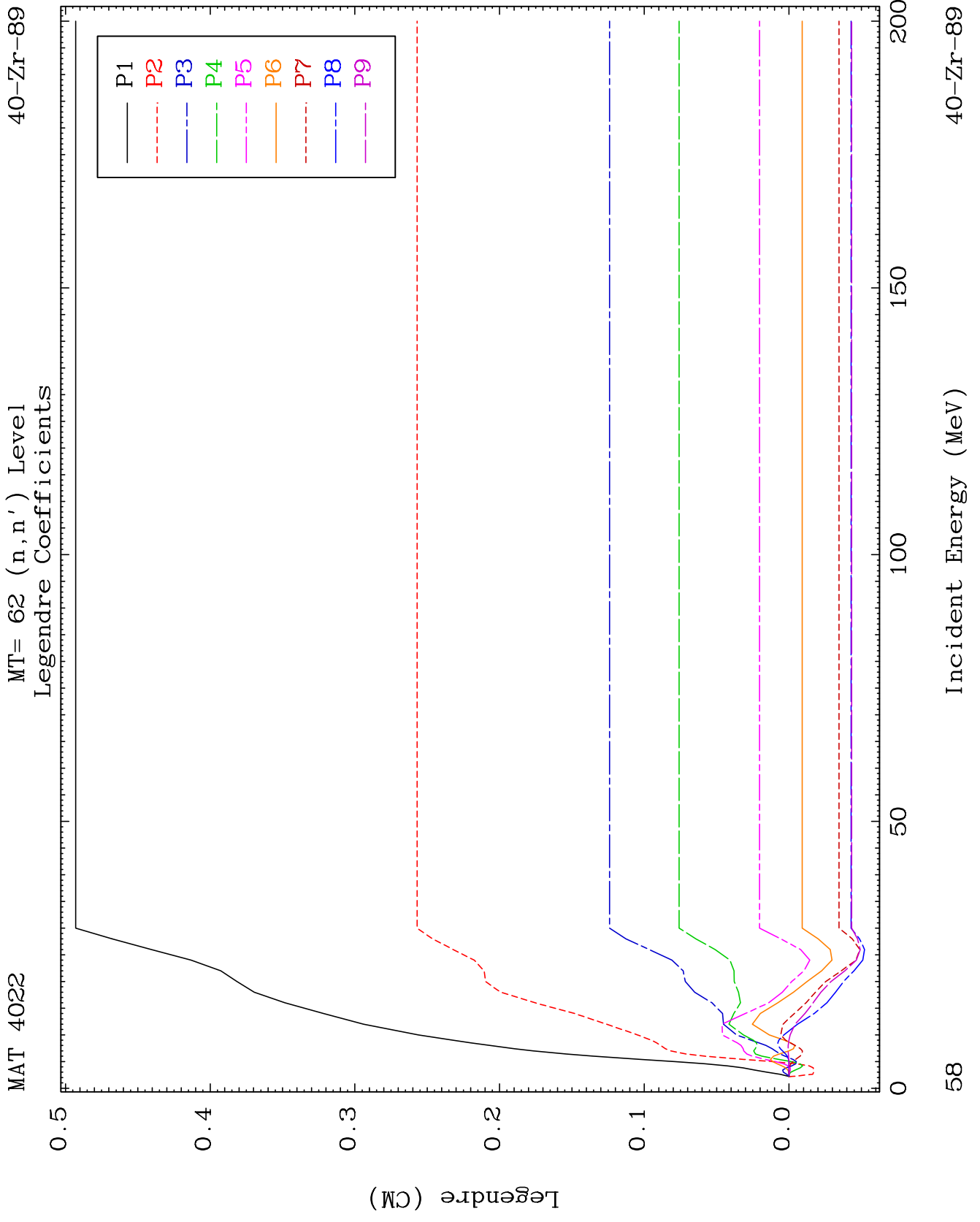








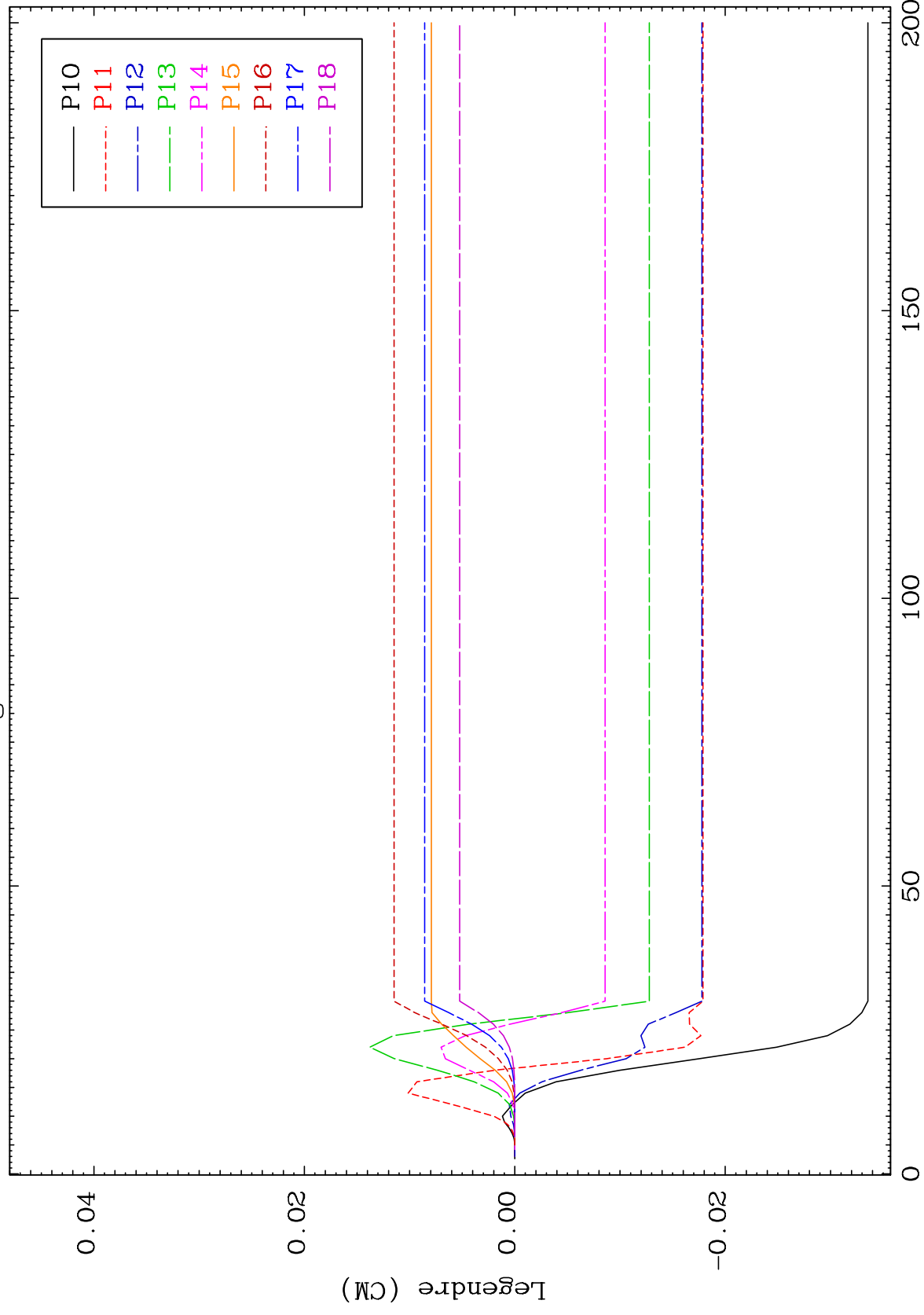




MAT 4022

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

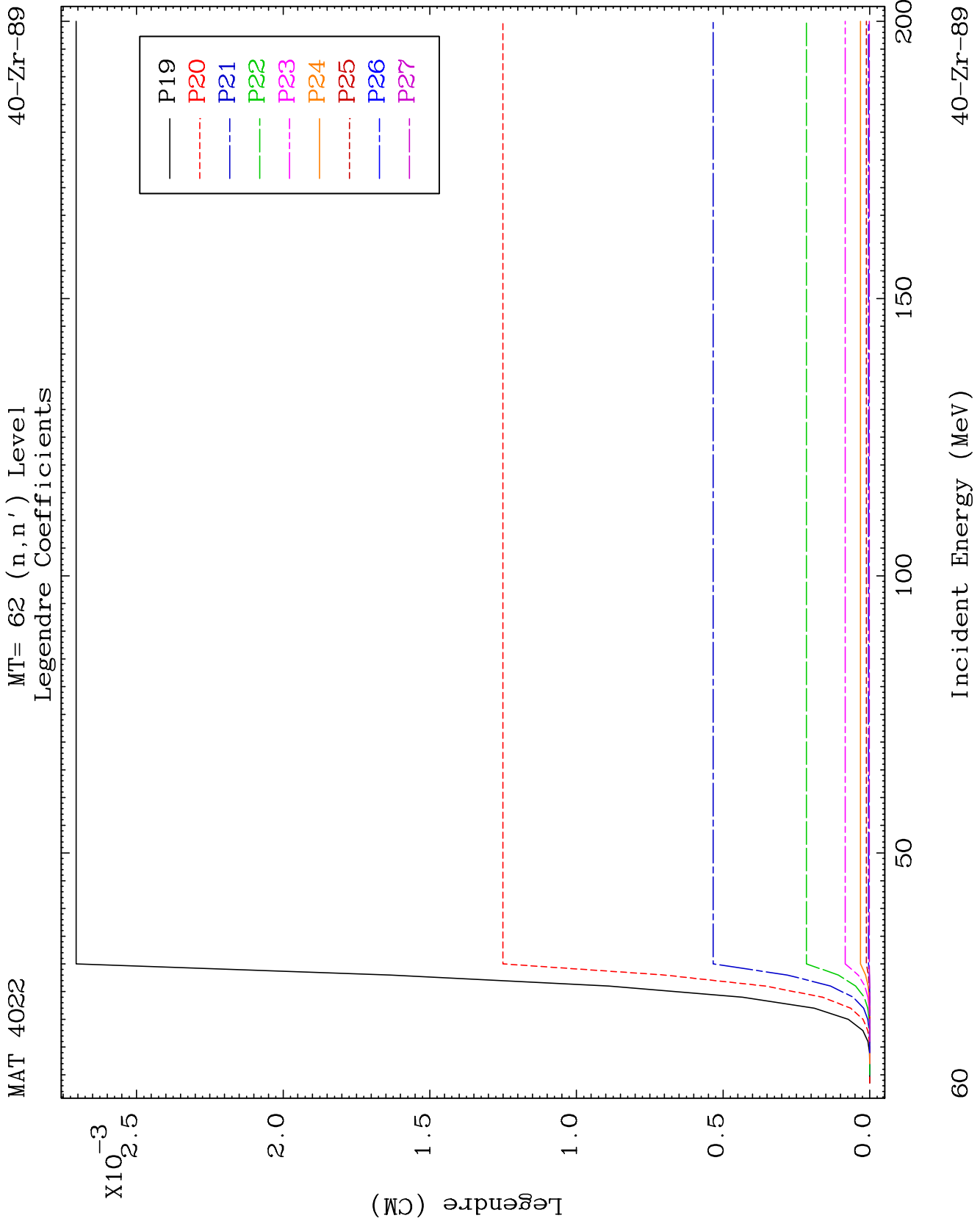
40-Zr-89



59

Incident Energy (MeV)

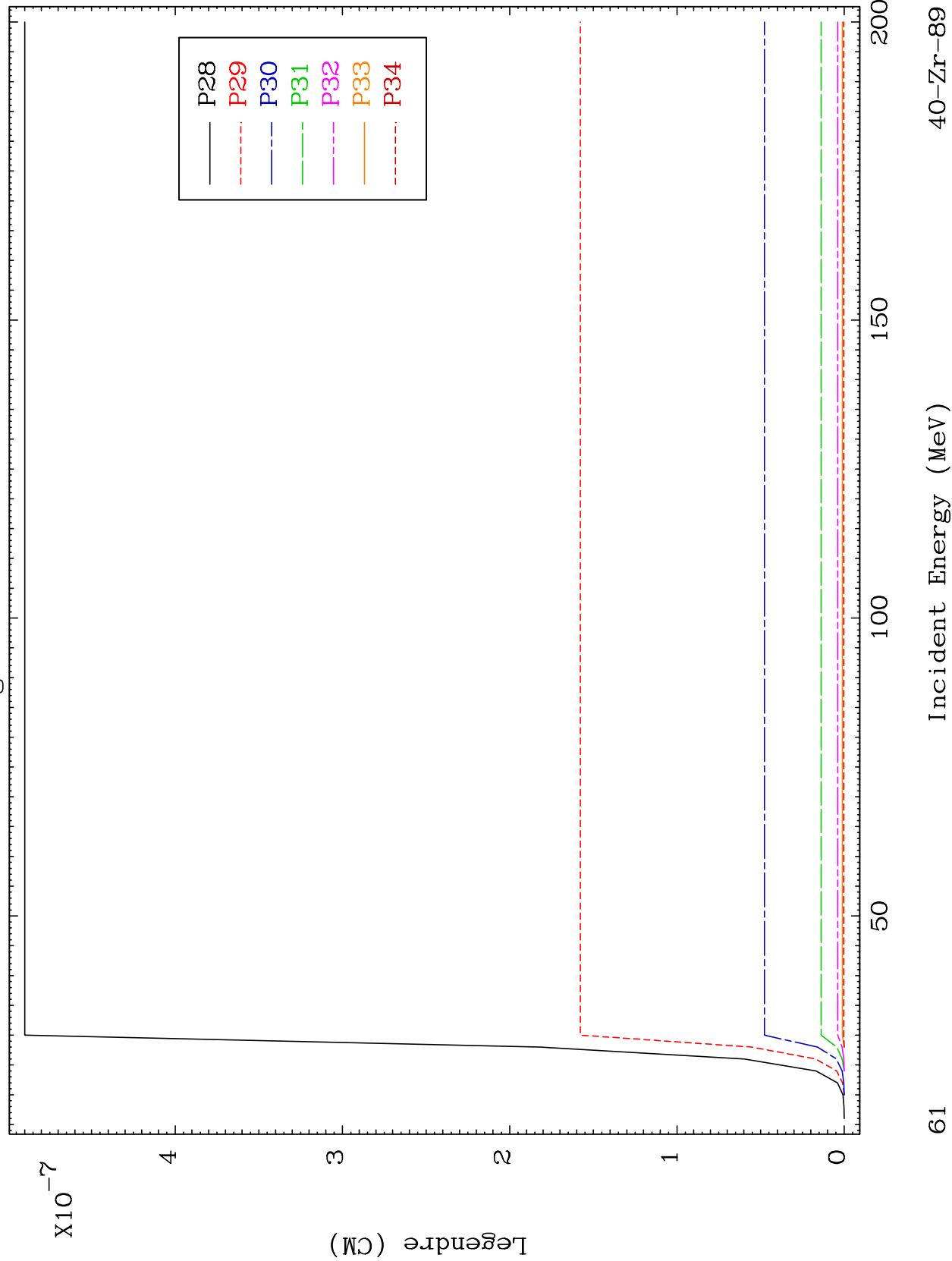
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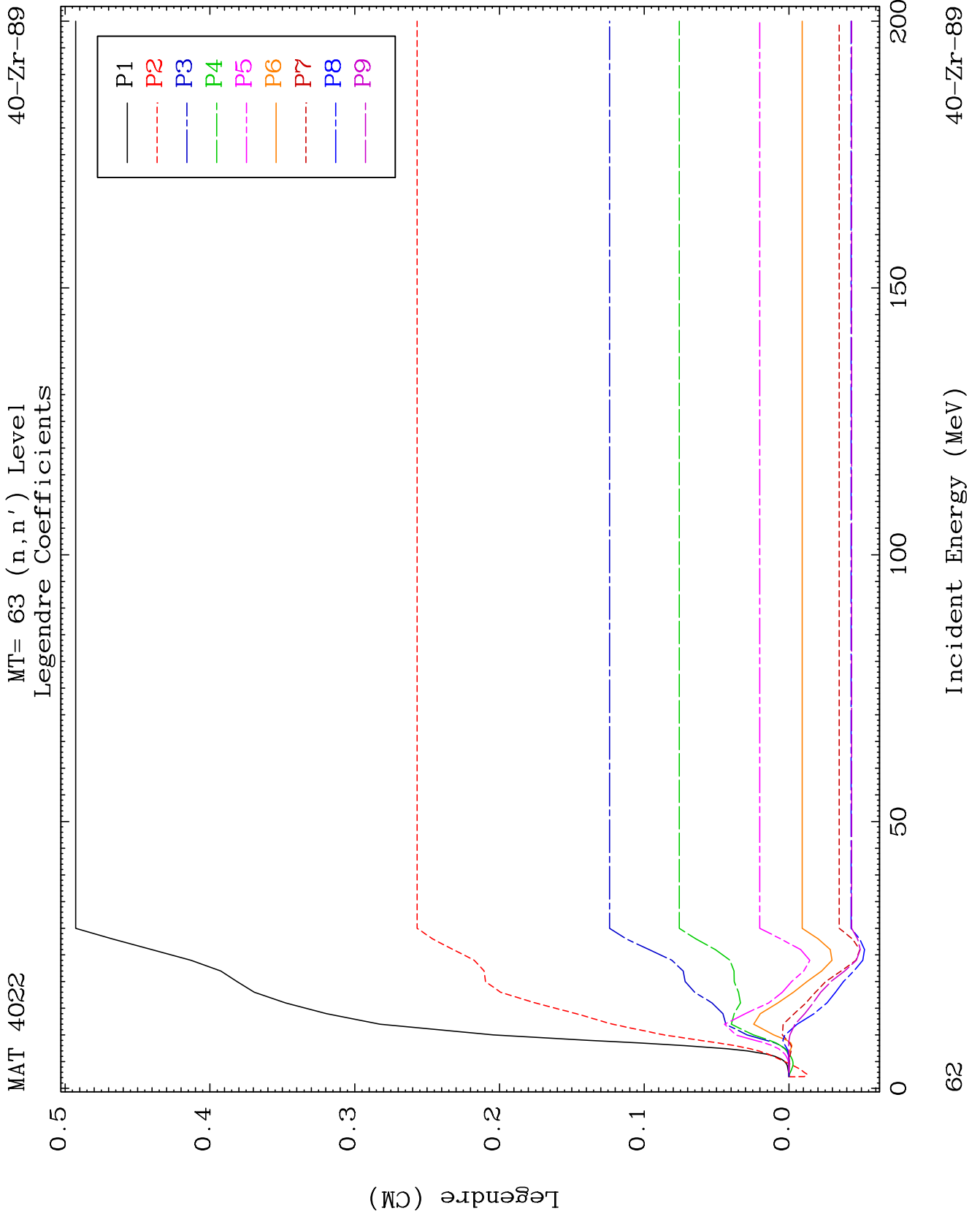


MAT 4022

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

40-Zr-89

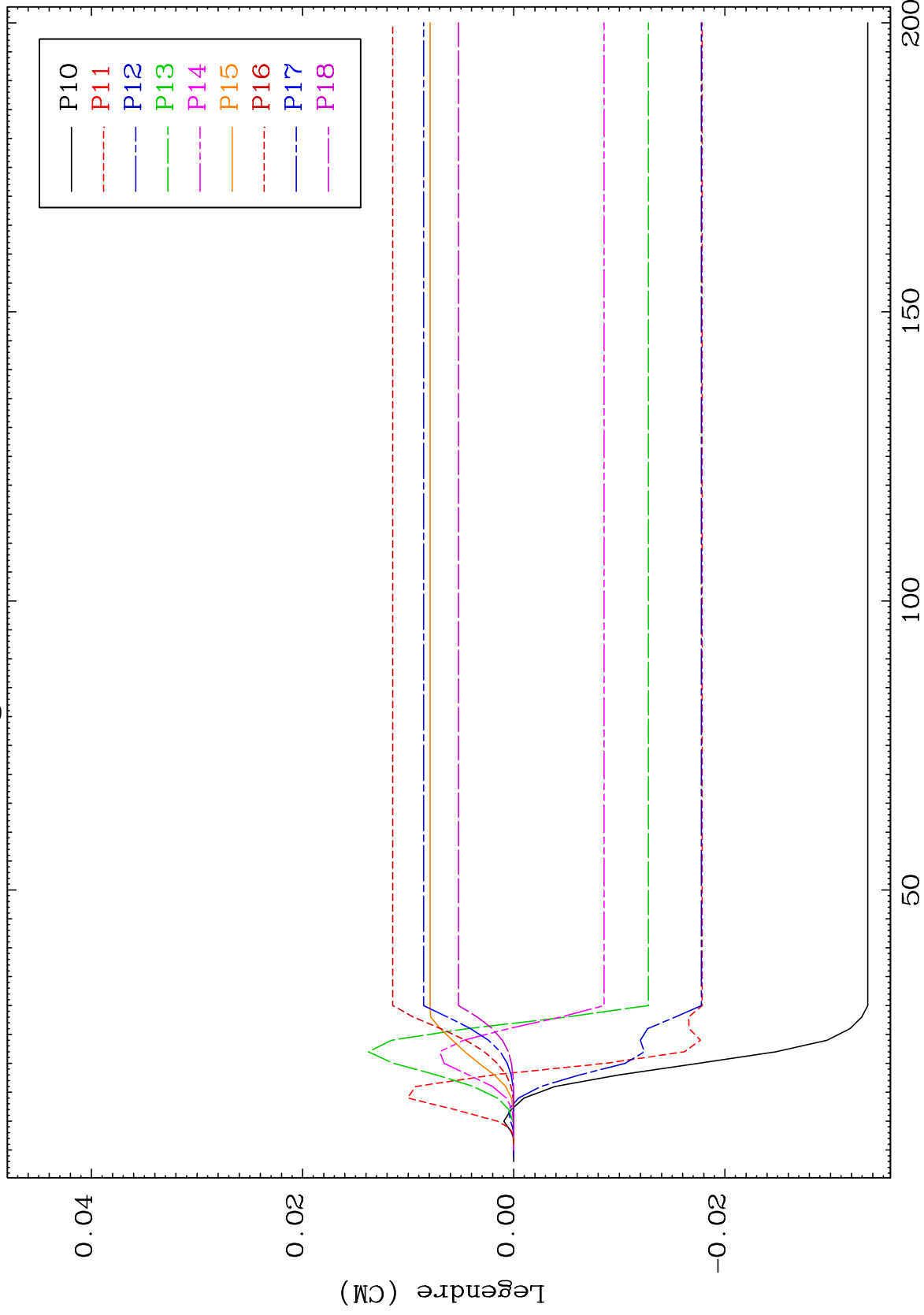




MAT 4022

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

40-Zr-89



63

Incident Energy (MeV)

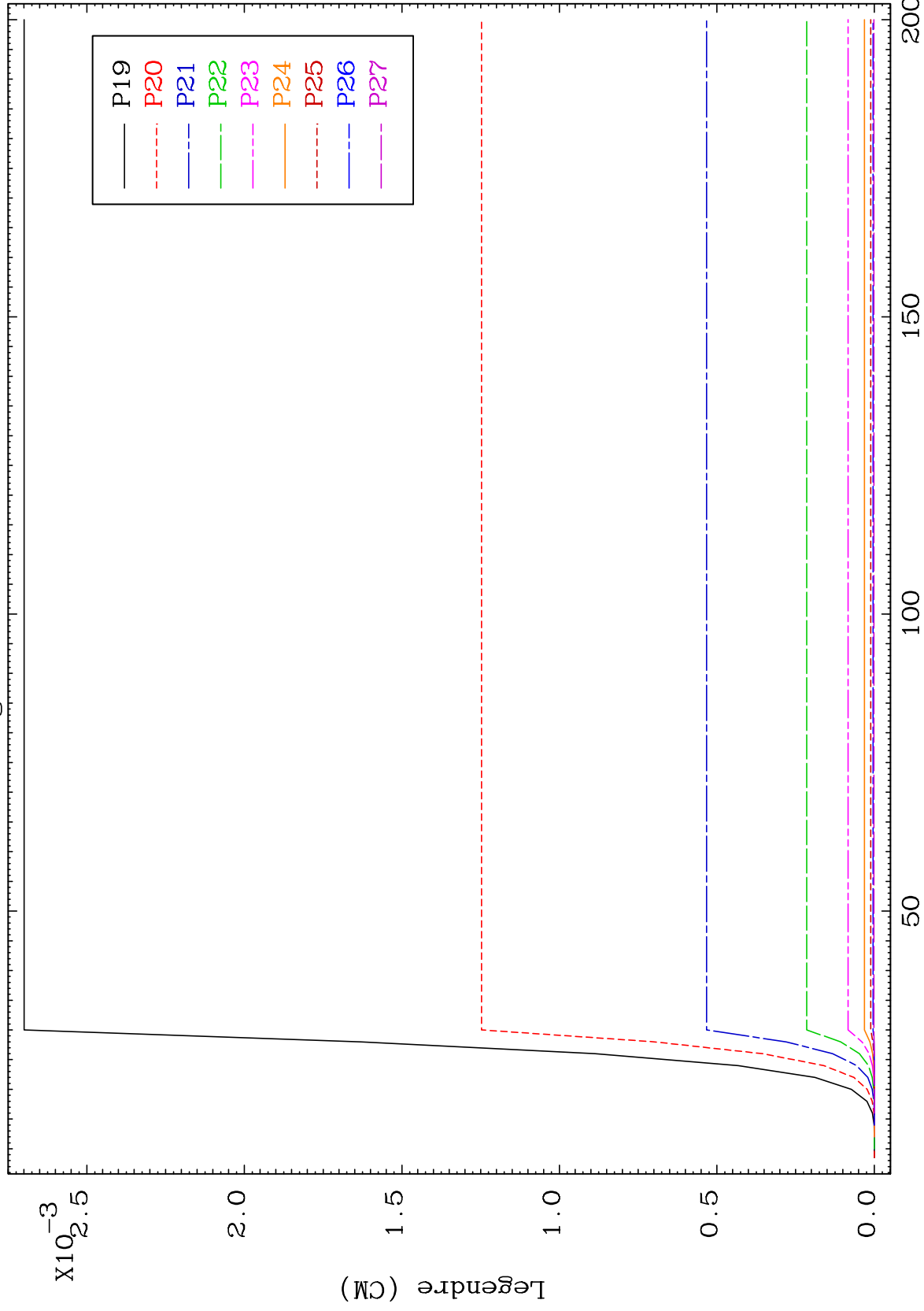
40-Zr-89



MAT 4022

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

40-Zr-89



64

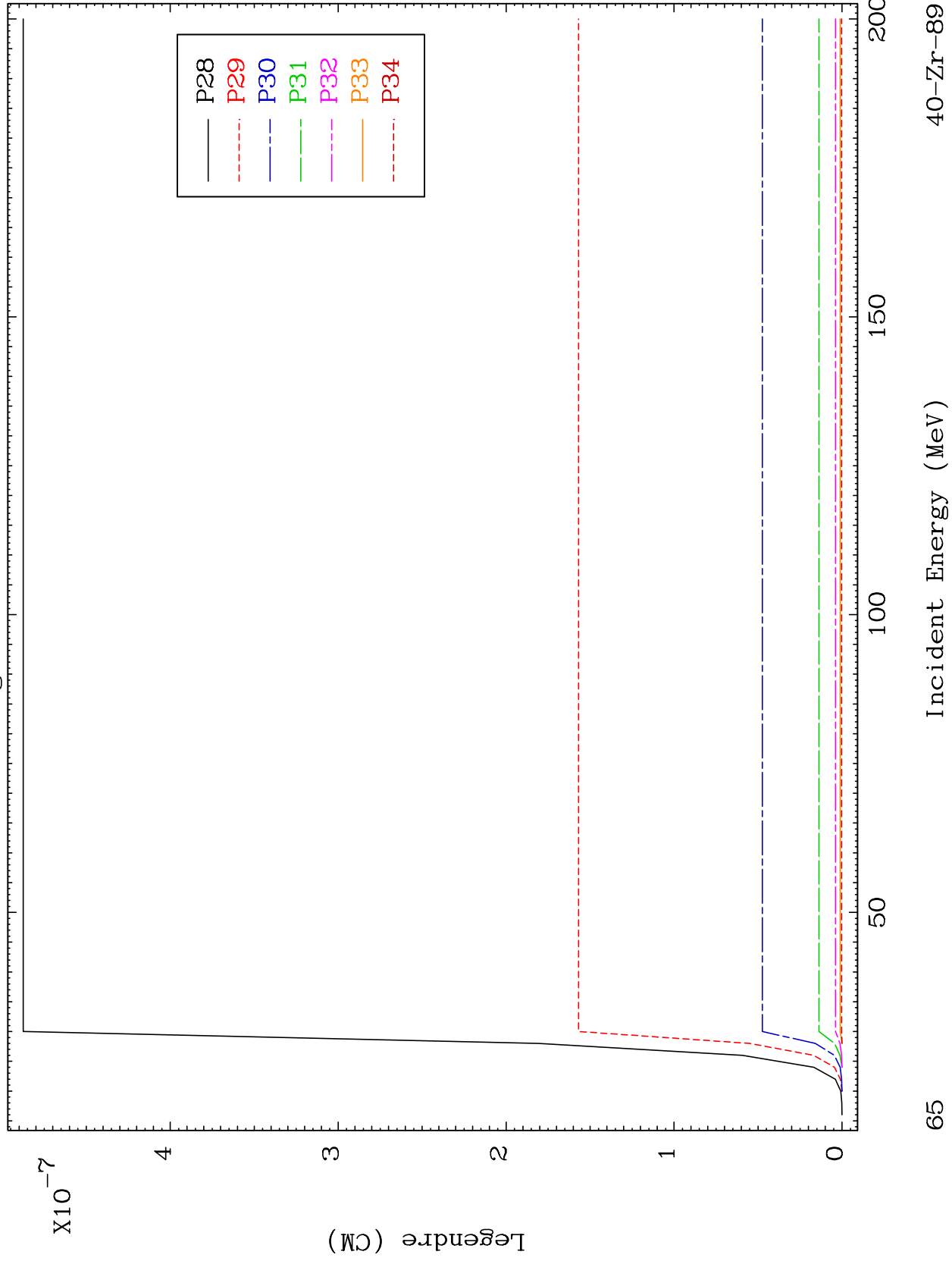
Incident Energy (MeV)

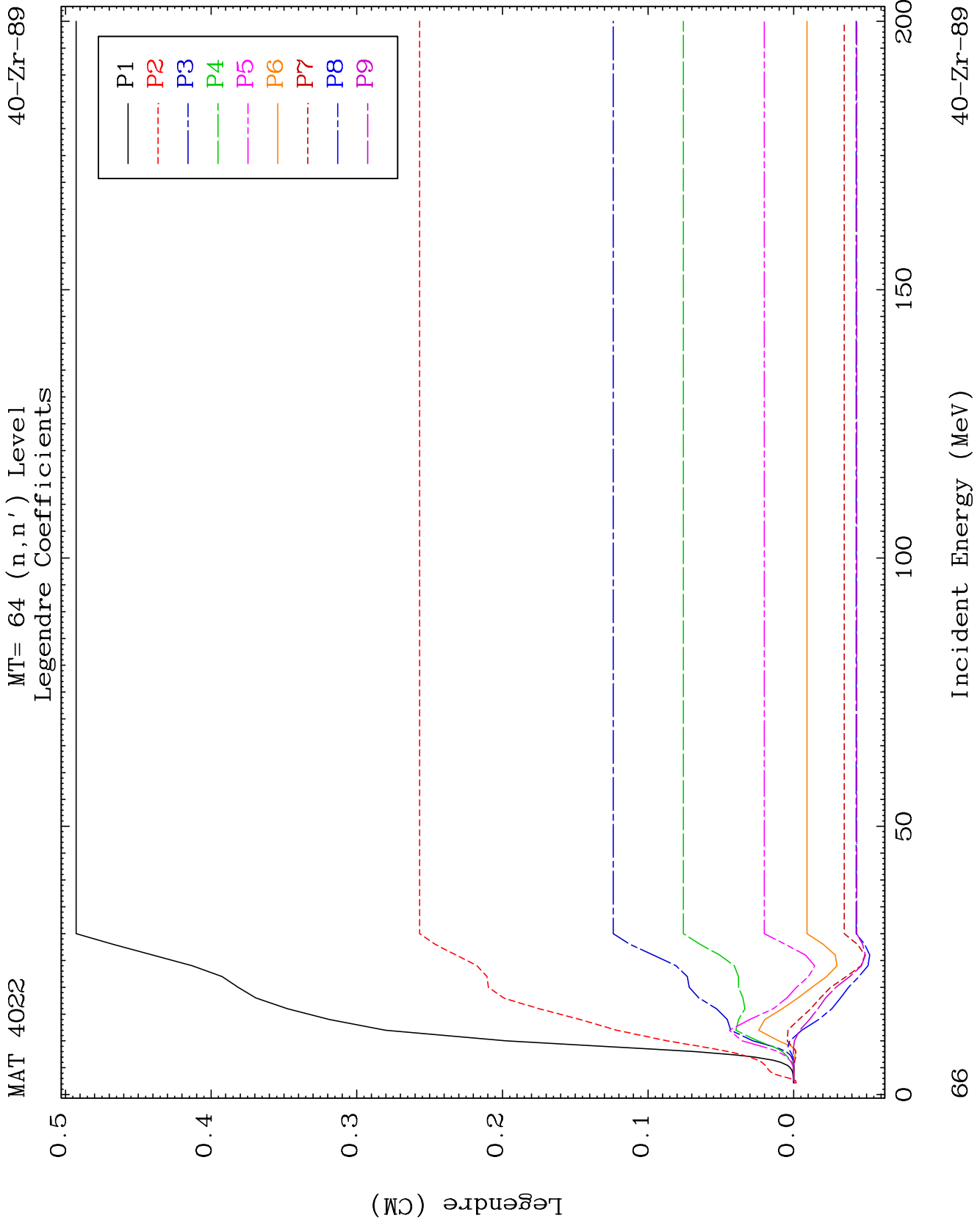
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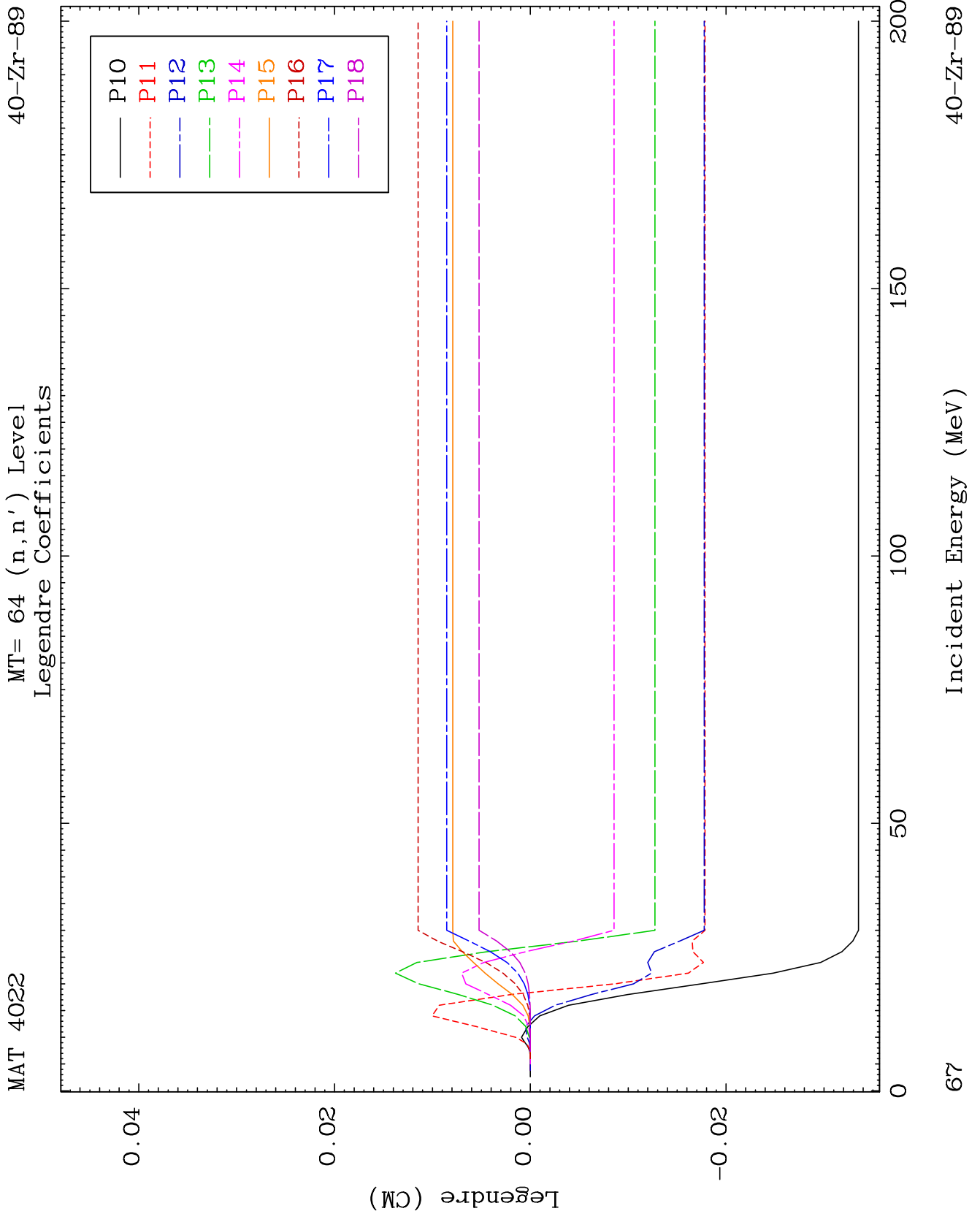
MAT 4022

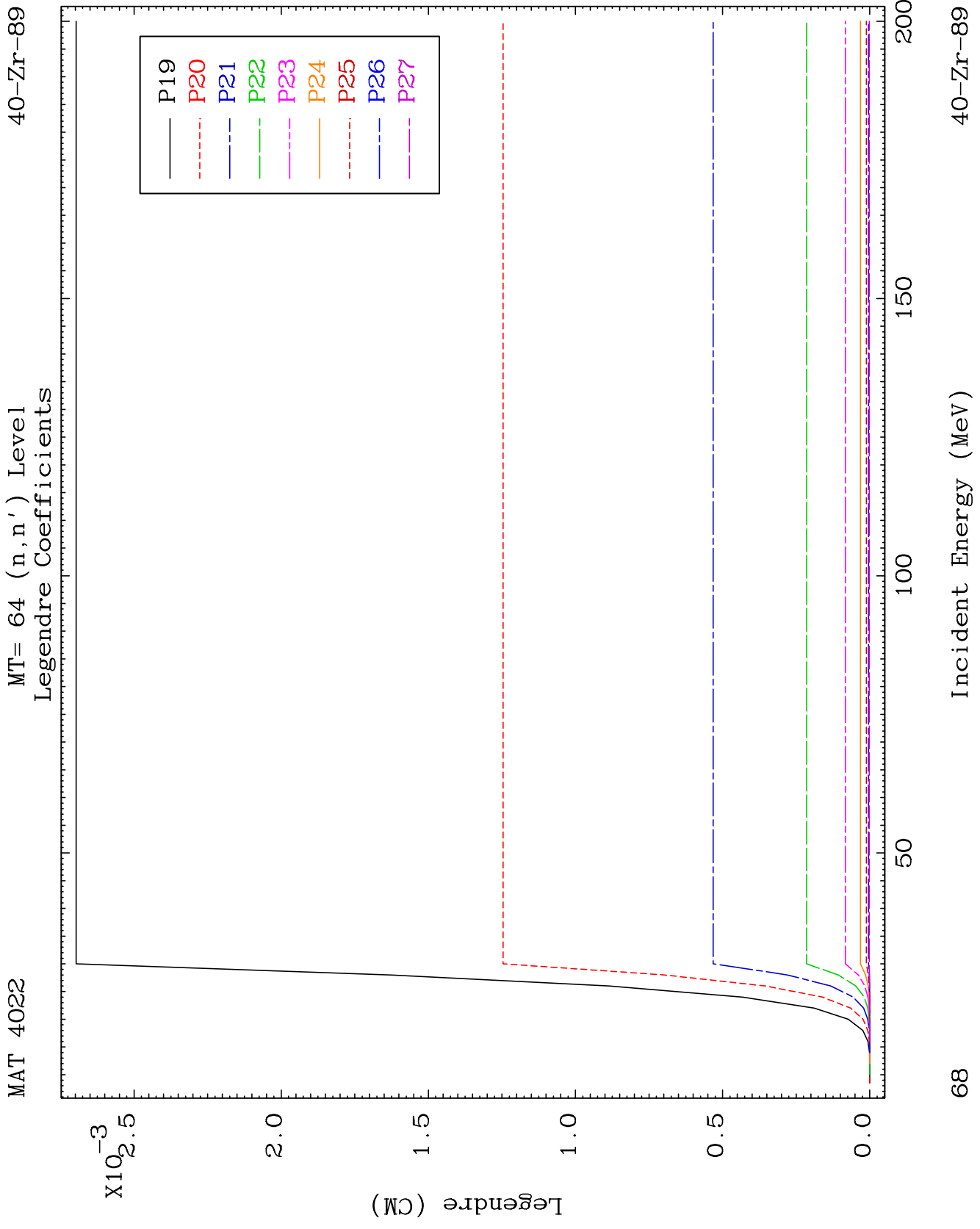
MT= 63 (n,n') Level  
Legendre Coefficients

40-Zr-89





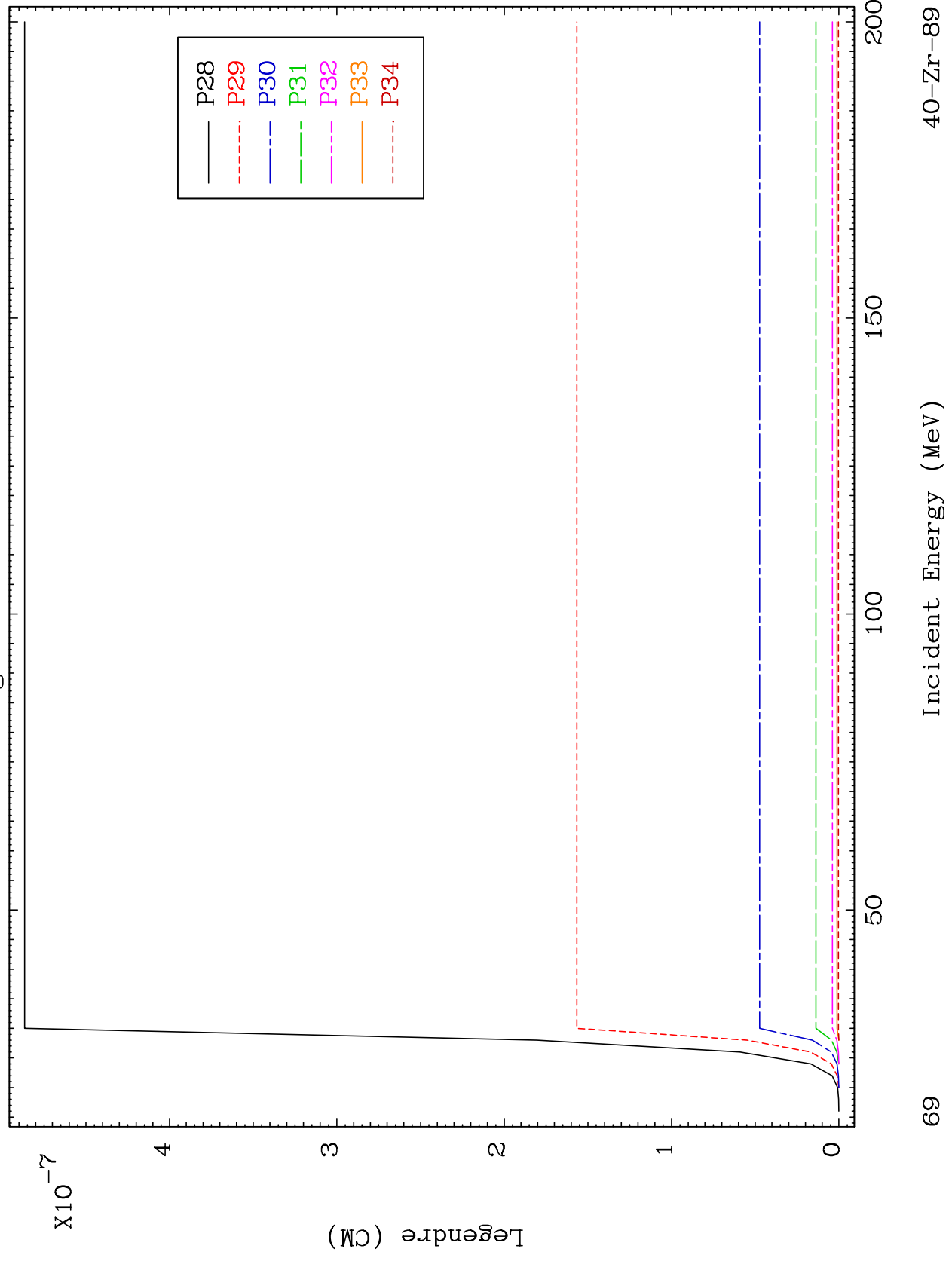




MAT 4022

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

40-Zr-89



69

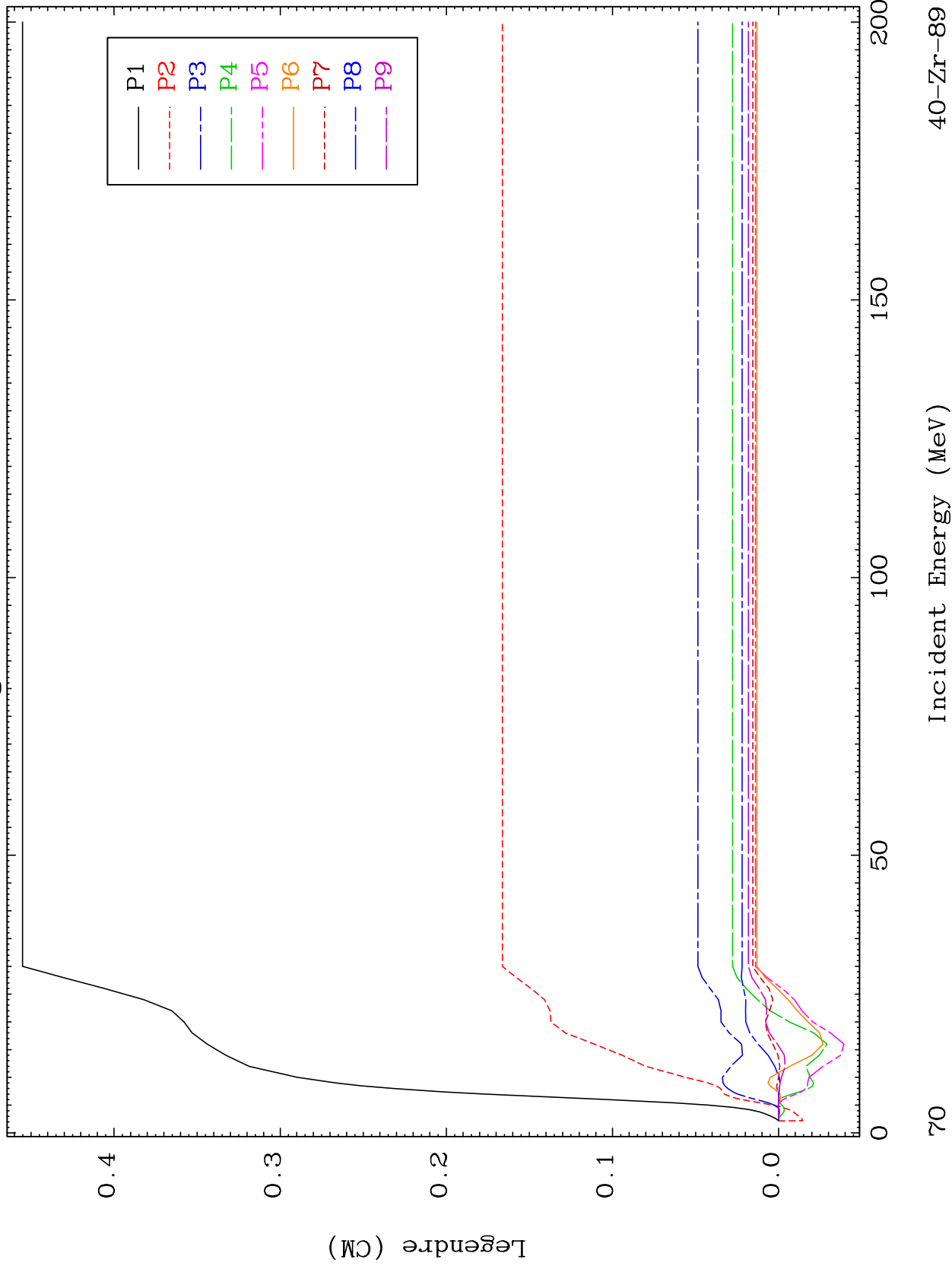
Incident Energy (MeV)

40-Zr-89

MAT 4022

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

40-Zr-89



40-Zr-89

Incident Energy (MeV)

70

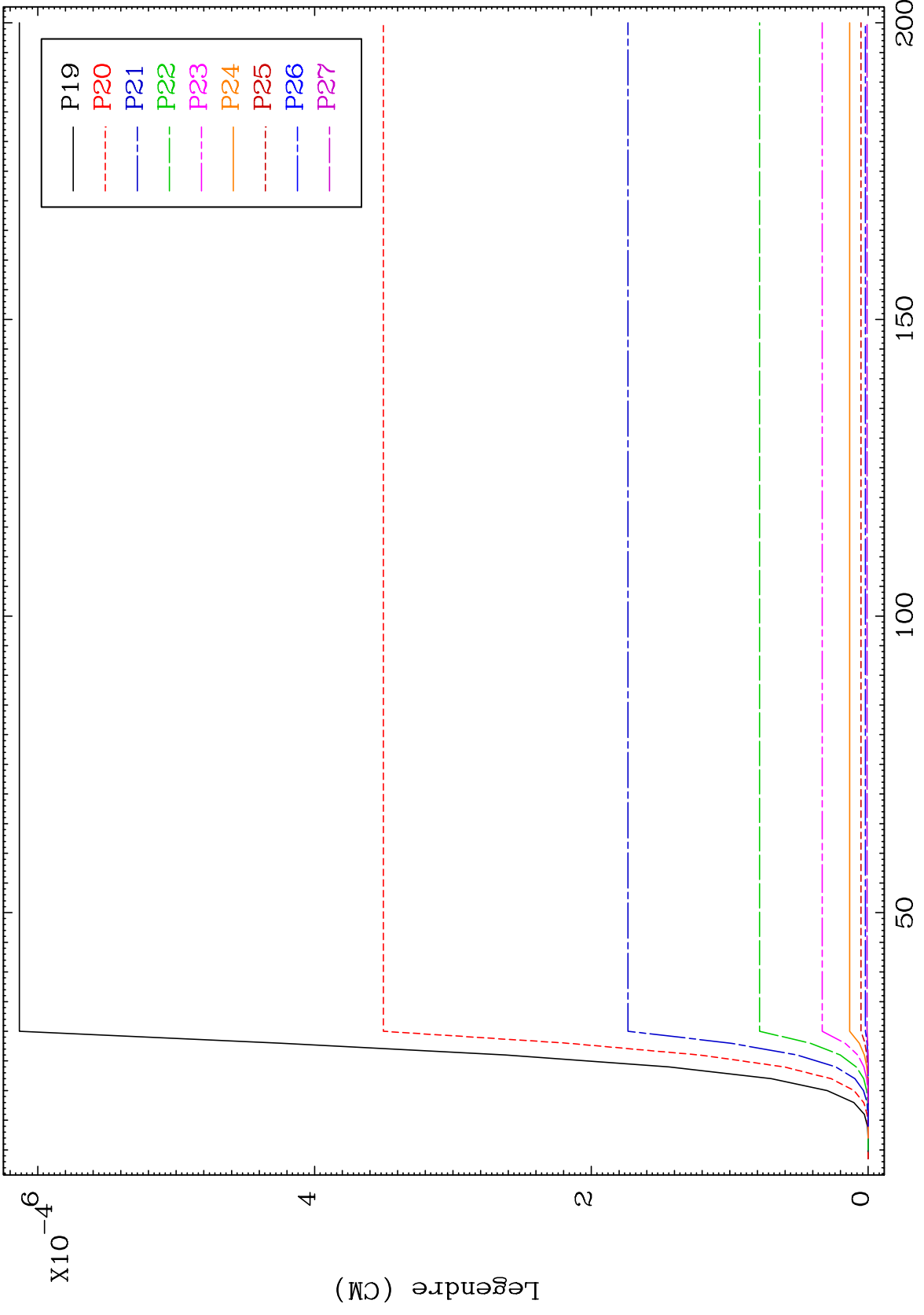




MAT 4022

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

40-Zr-89



72

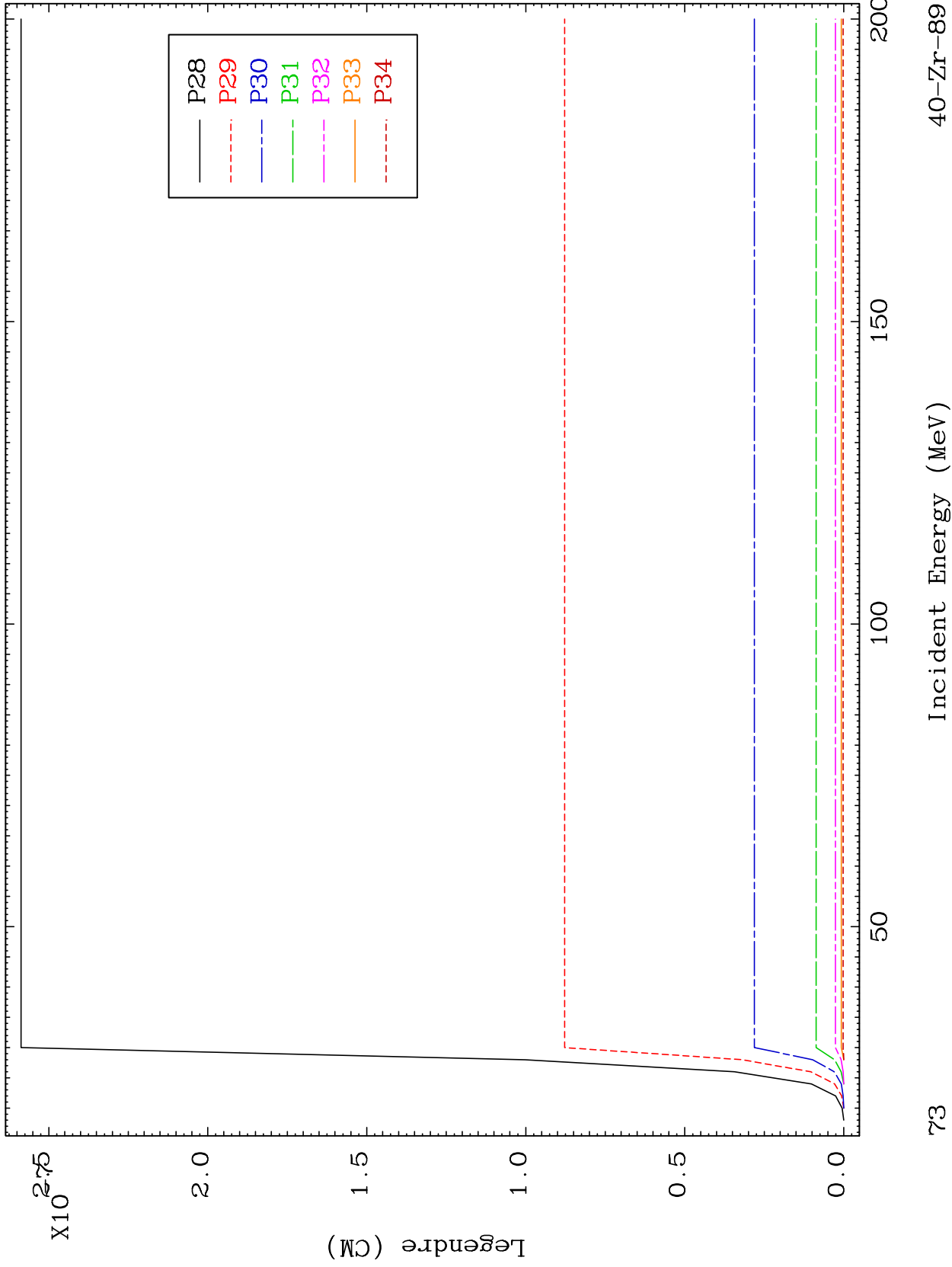
Incident Energy (MeV)

40-Zr-89

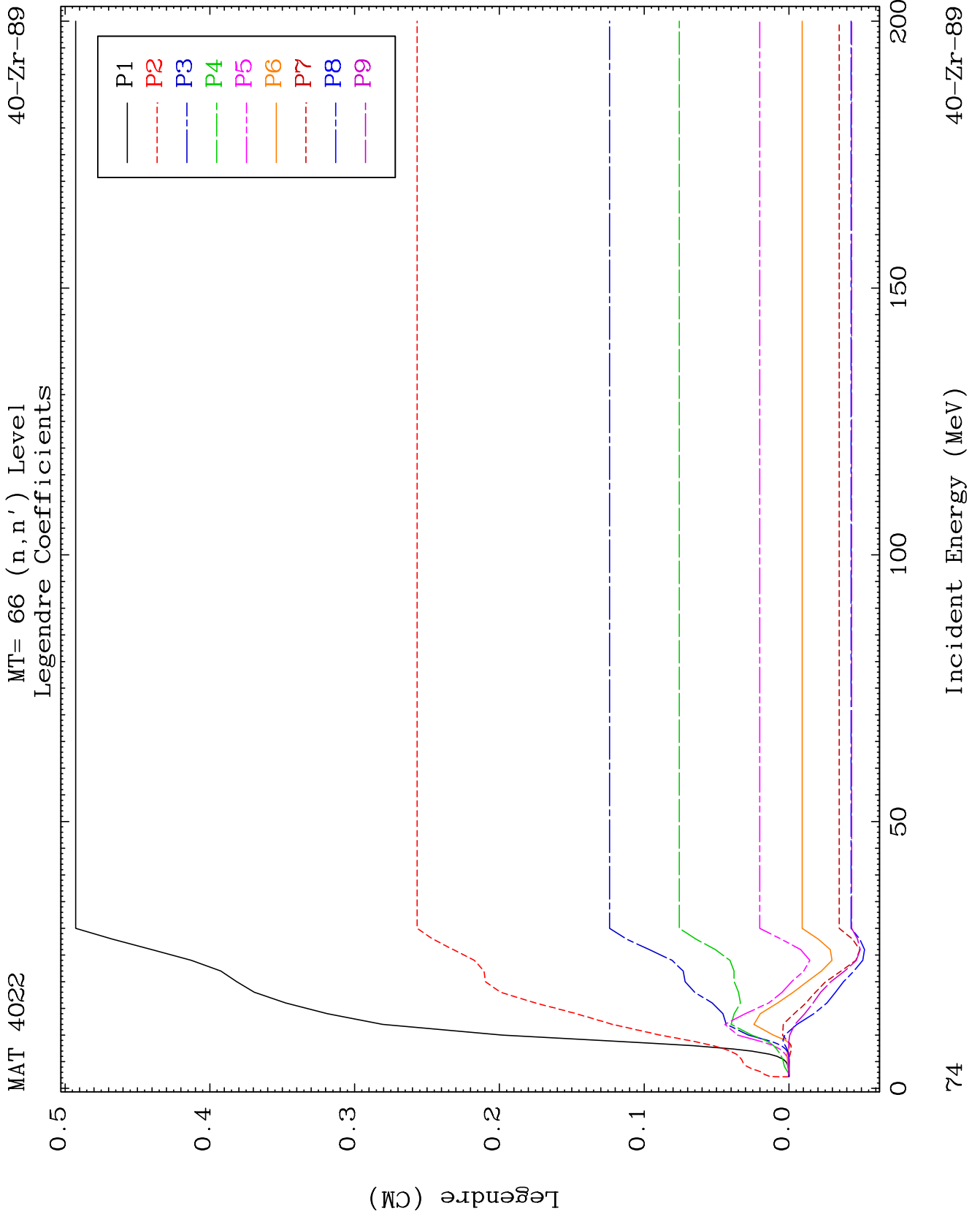
MAT 4022

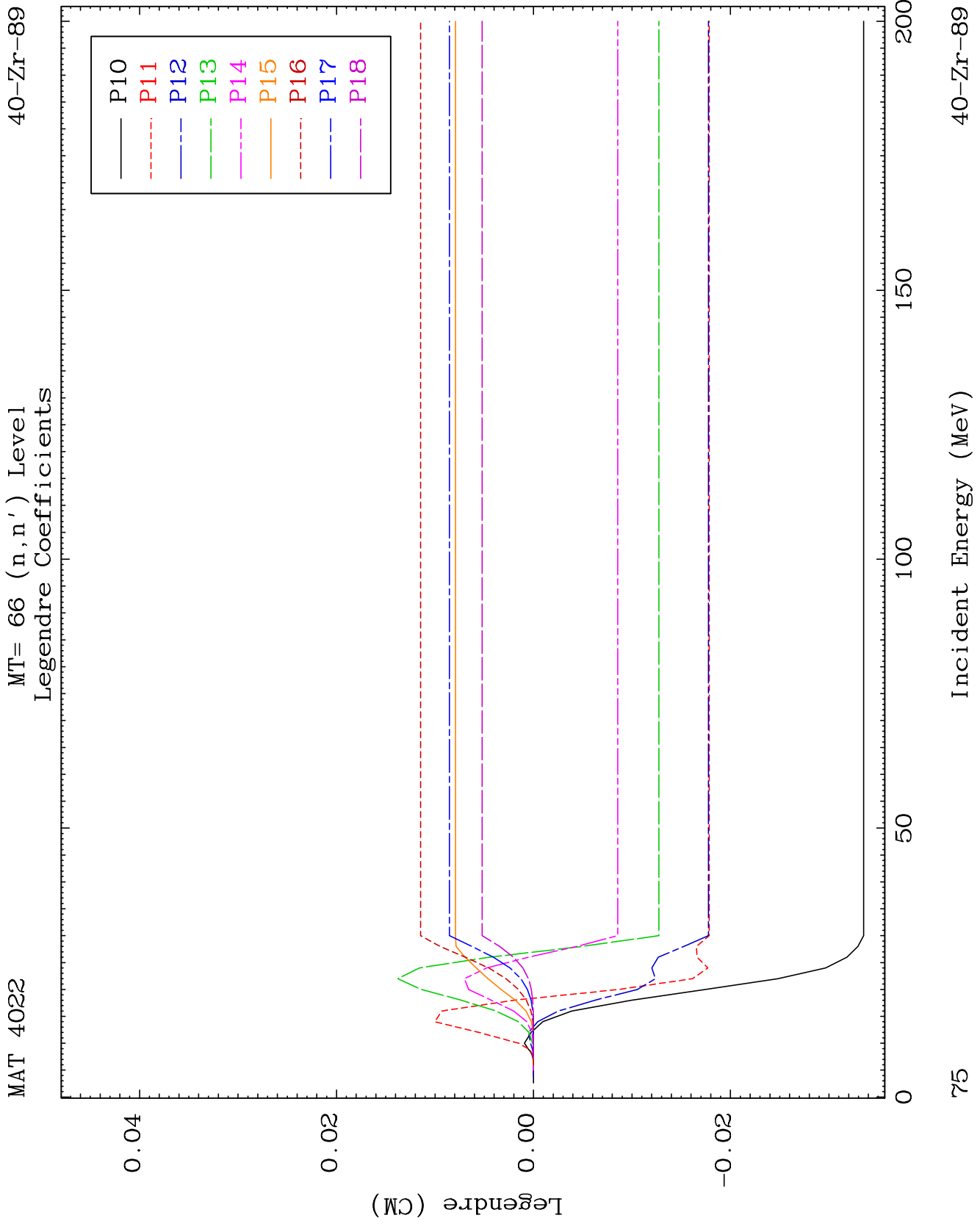
MT= 65 (n,n') Level  
Legendre Coefficients

40-Zr-89



73

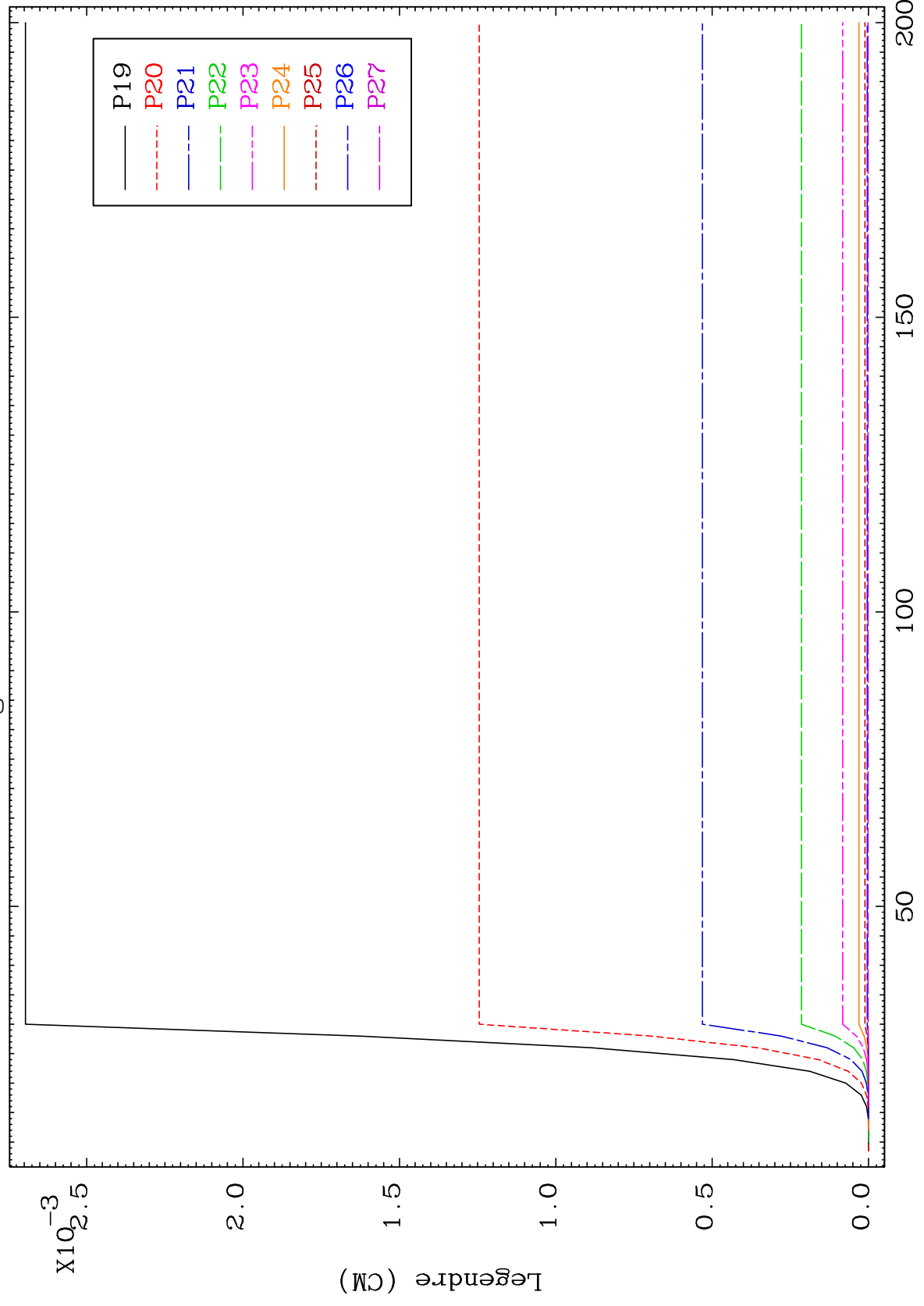




MAT 4022

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

40-Zr-89



40-Zr-89

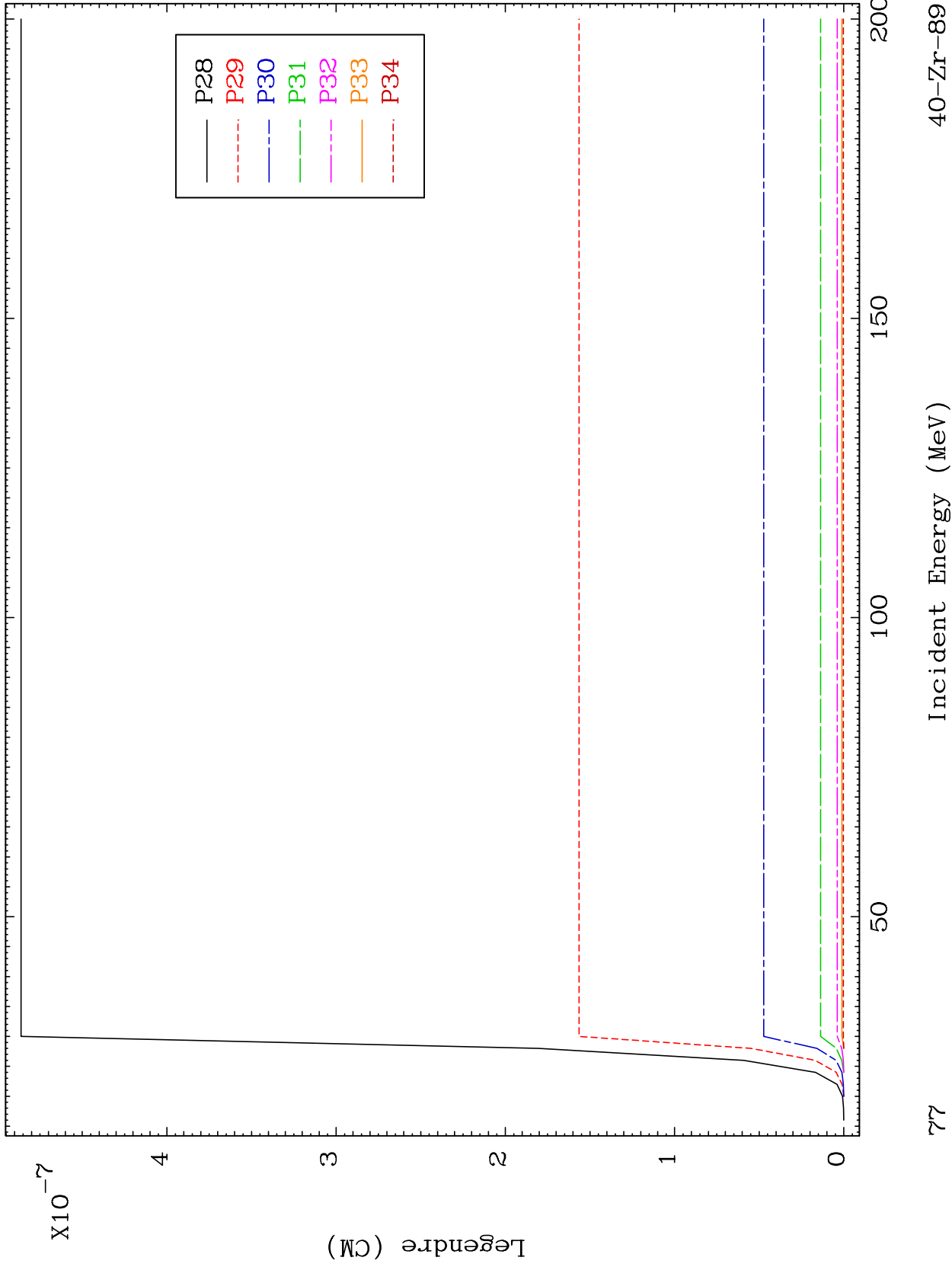
Incident Energy (MeV)

76

MAT 4022

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

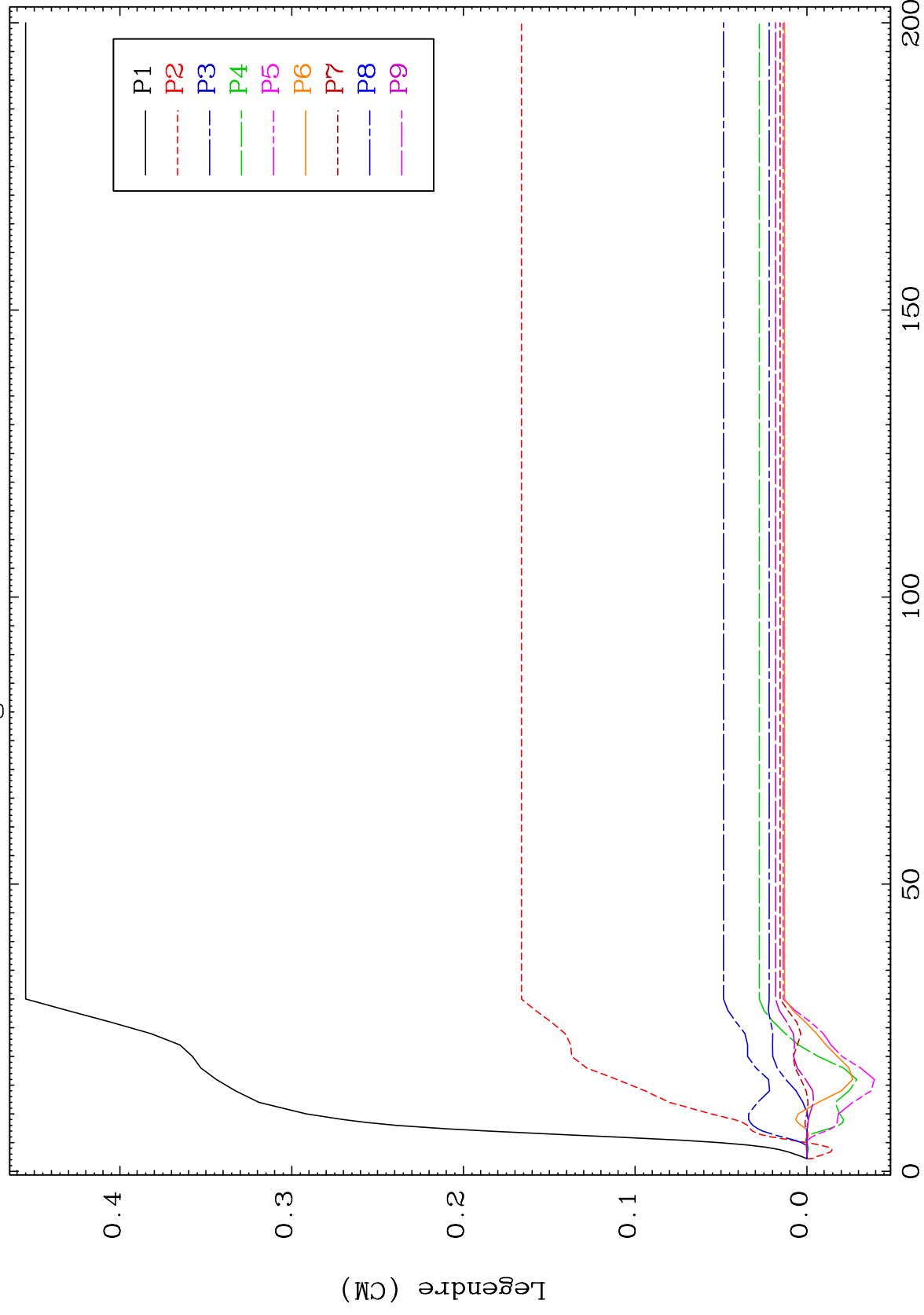
40-Zr-89



MAT 4022

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

40-Zr-89



78

Incident Energy (MeV)

40-Zr-89

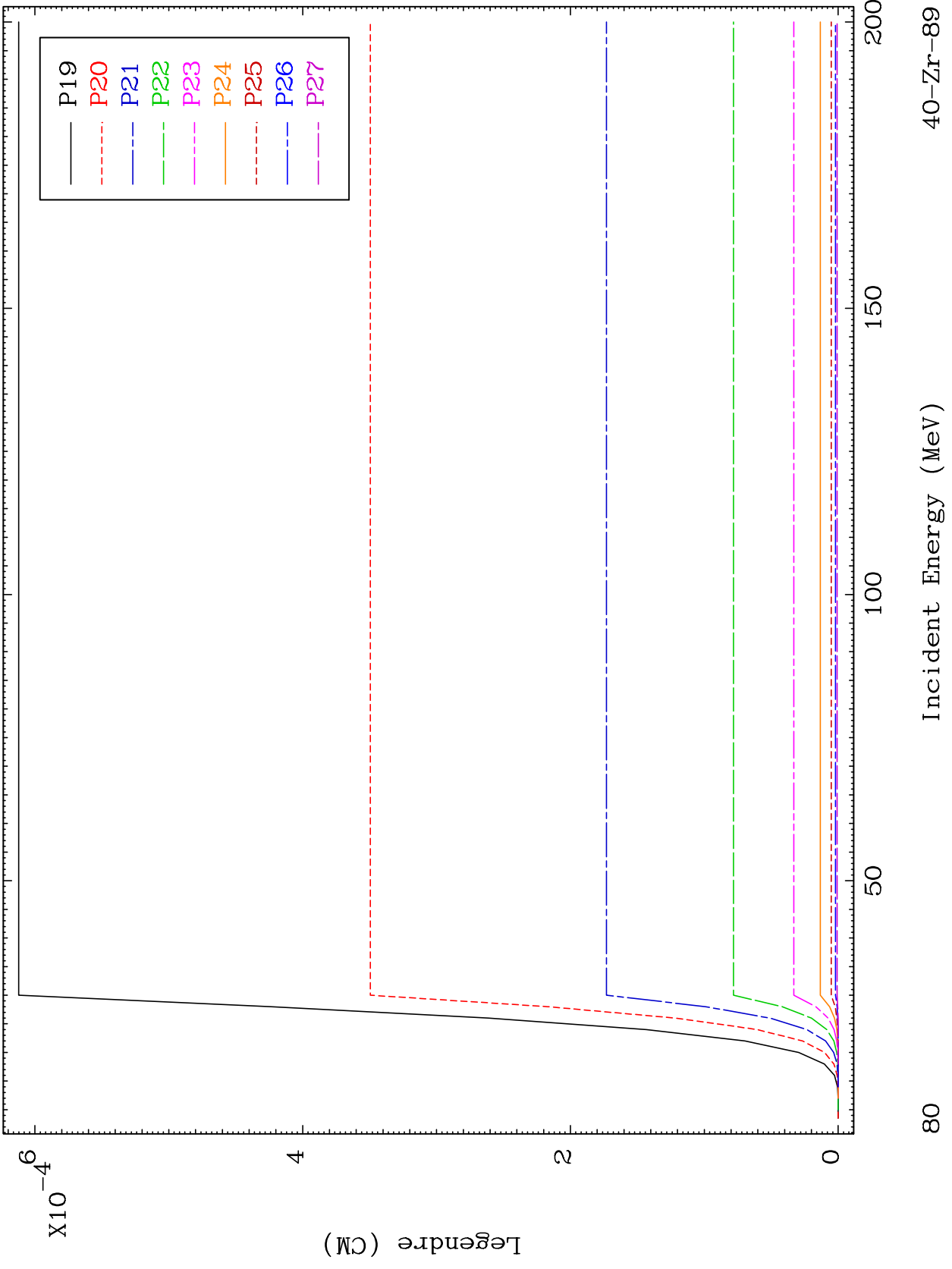




MAT 4022

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

40-Zr-89



80

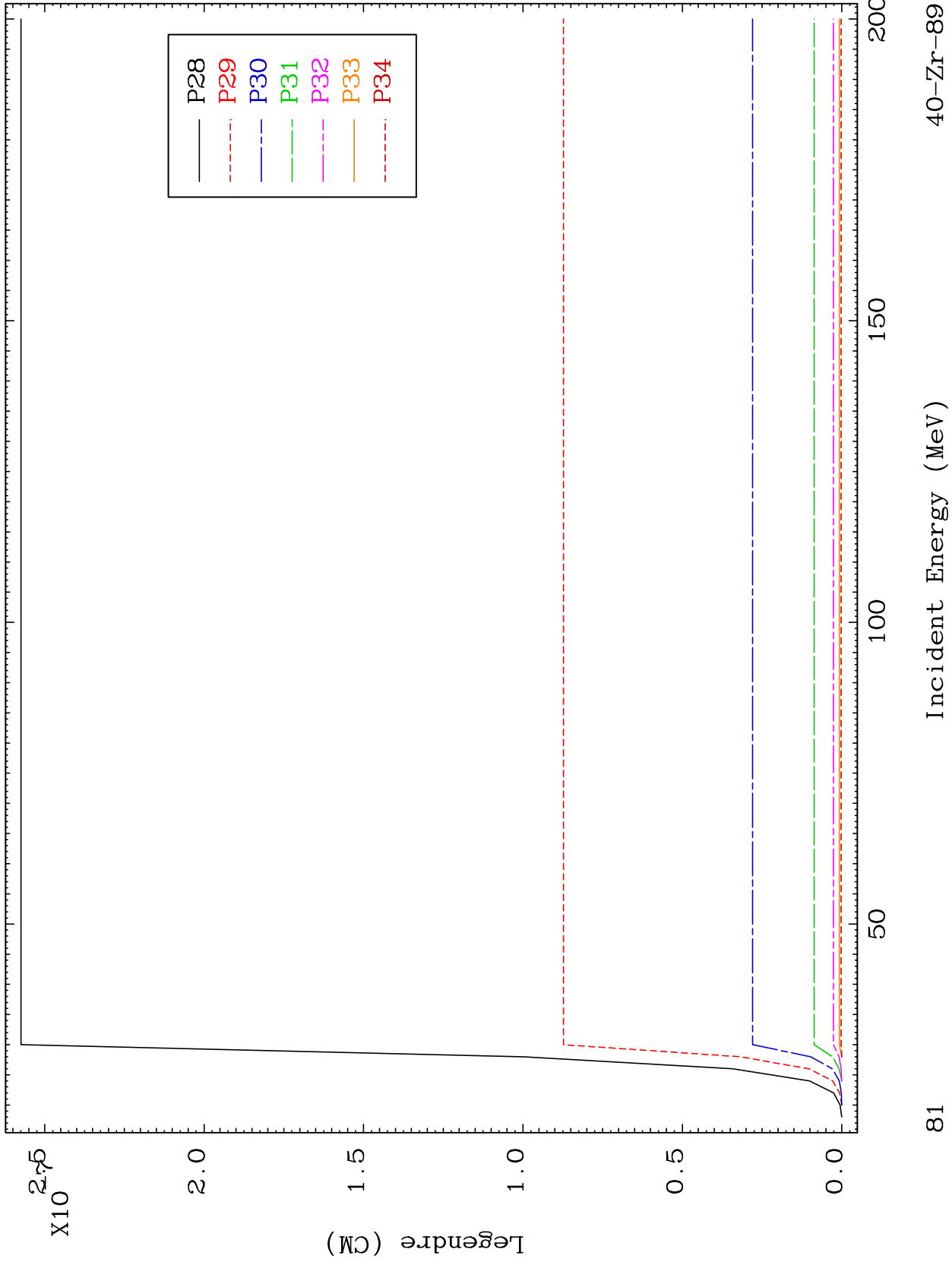
Incident Energy (MeV)

40-Zr-89

MAT 4022

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

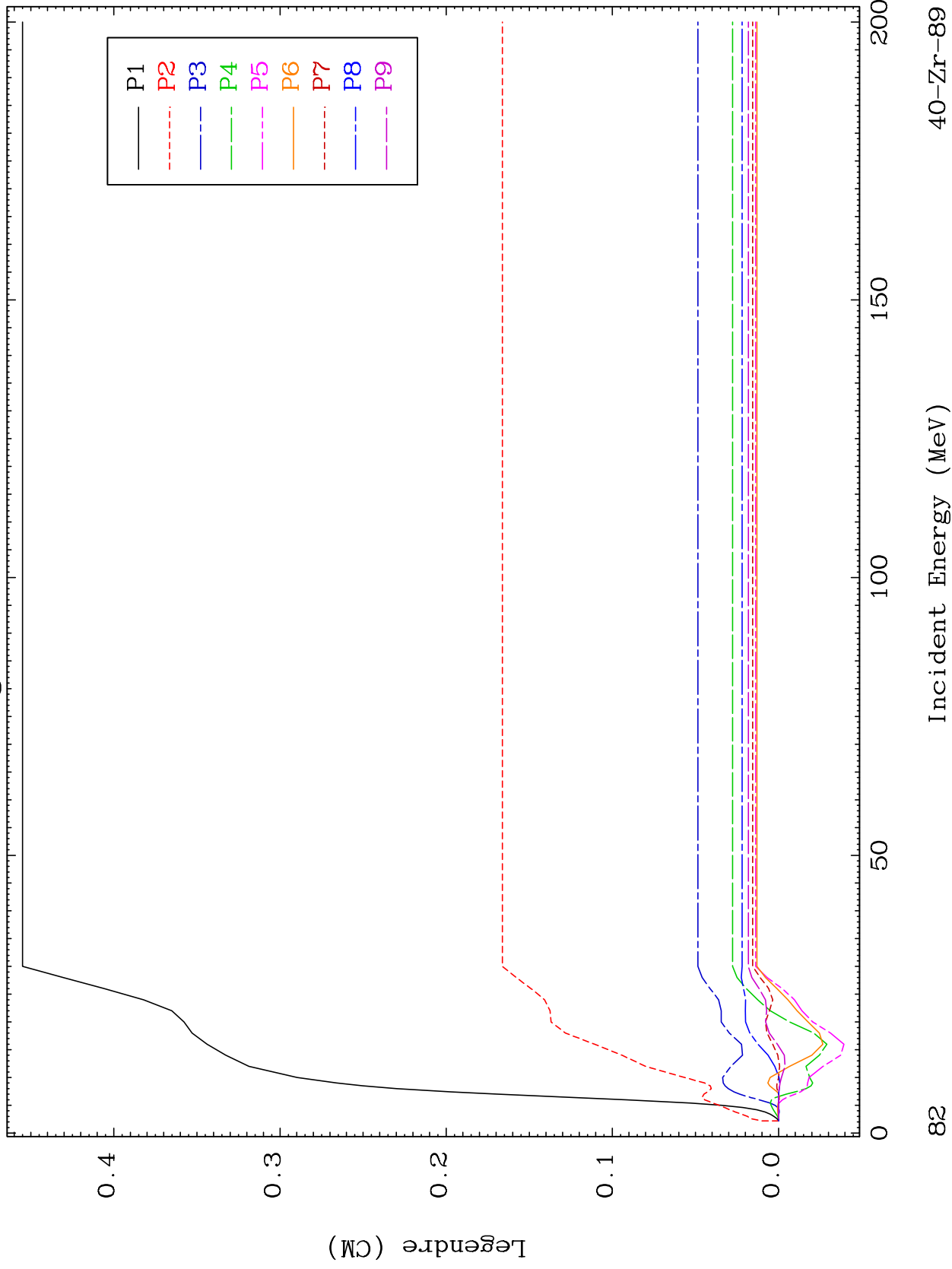
40-Zr-89



MAT 4022

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

40-Zr-89

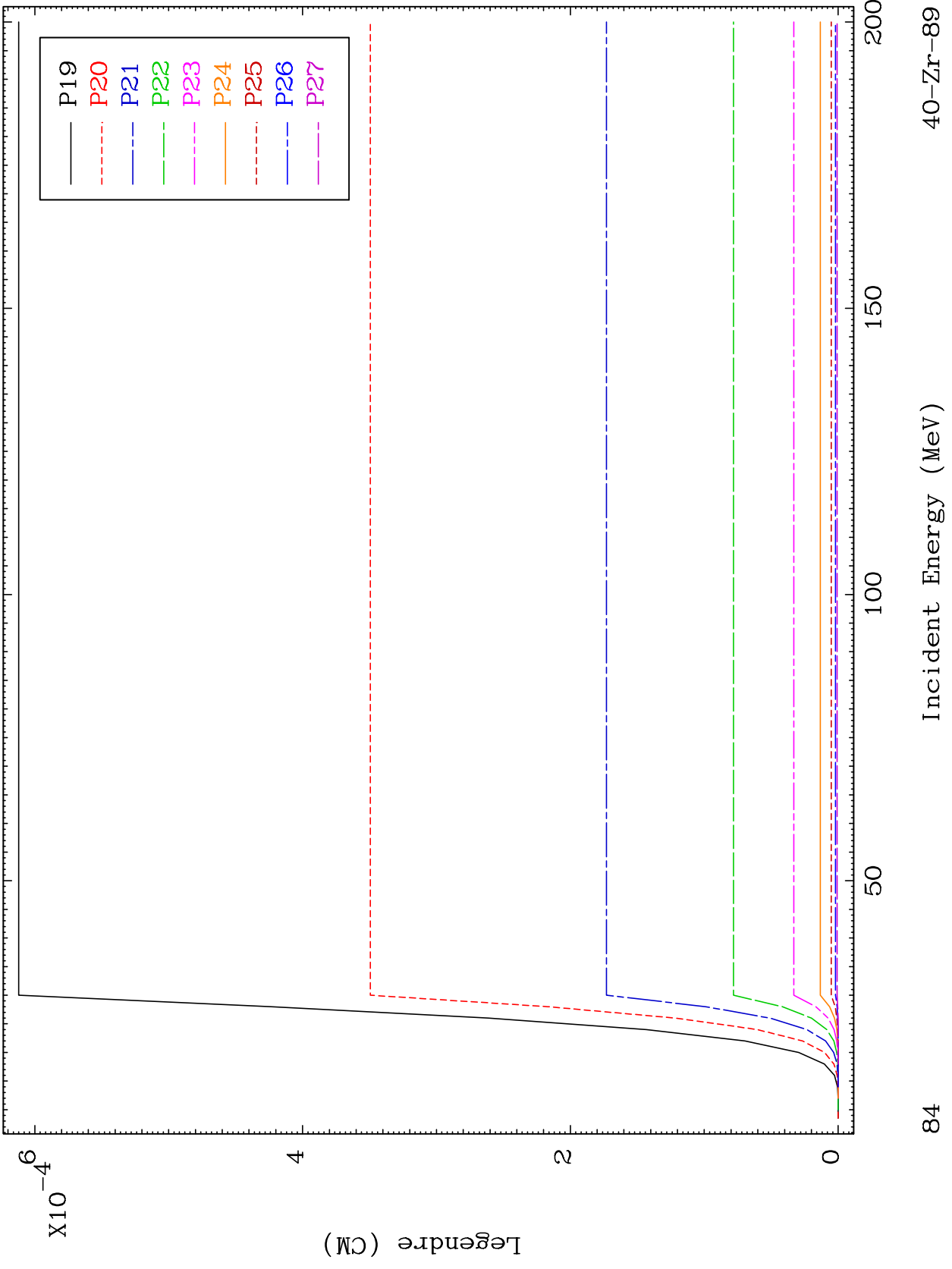




MAT 4022

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

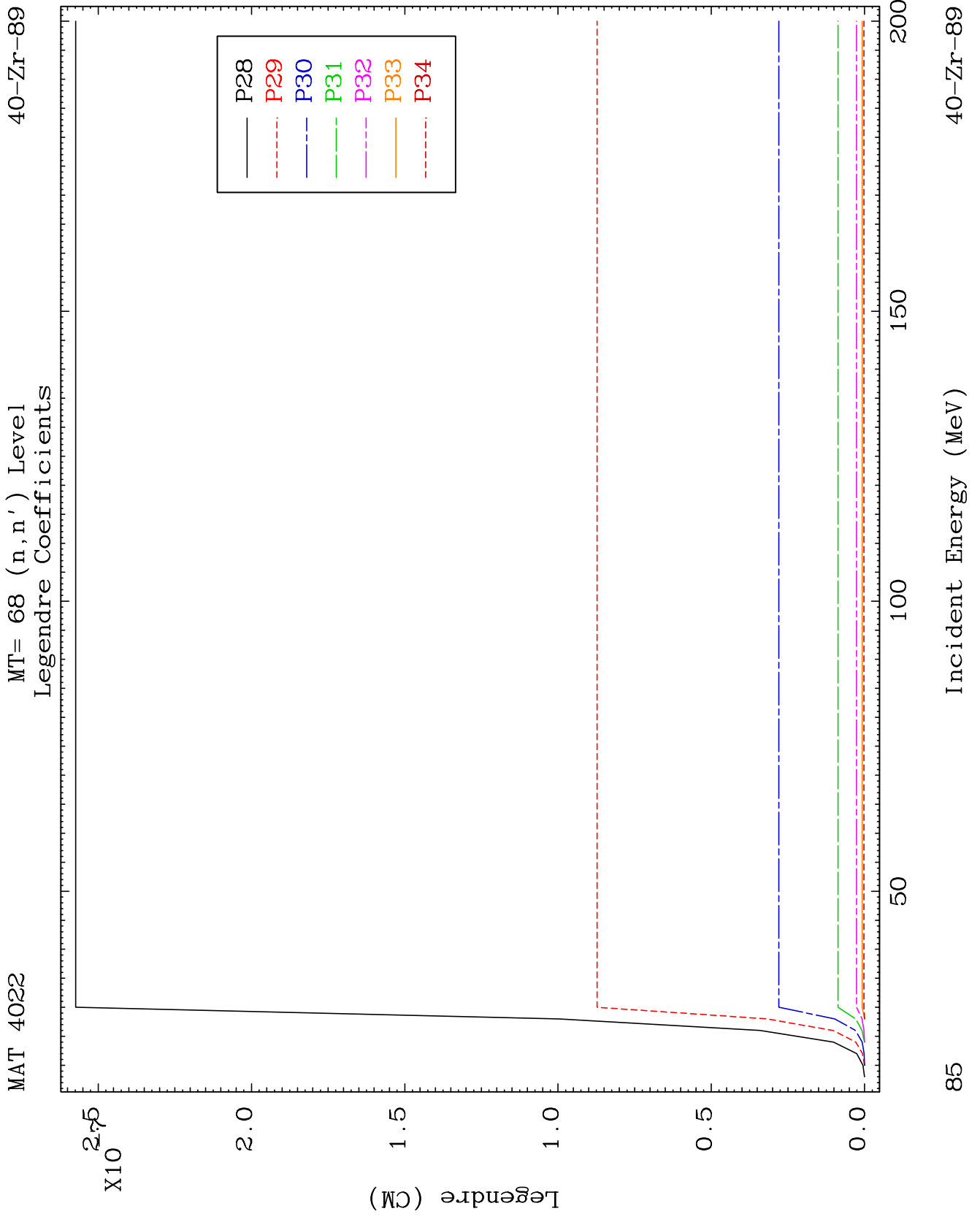
40-Zr-89



84

Incident Energy (MeV)

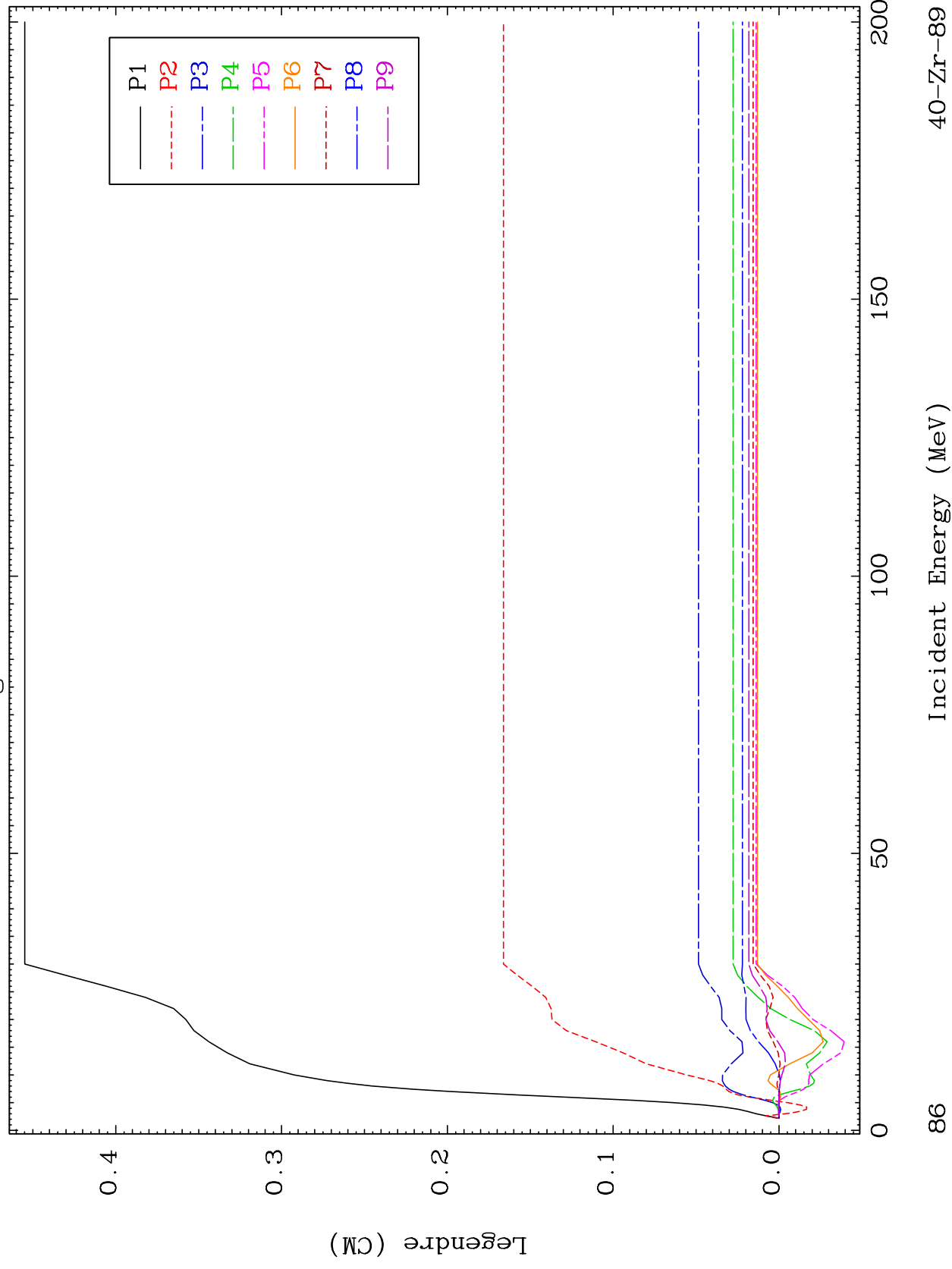
40-Zr-89



MAT 4022

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

40-Zr-89



86

Incident Energy (MeV)

40-Zr-89



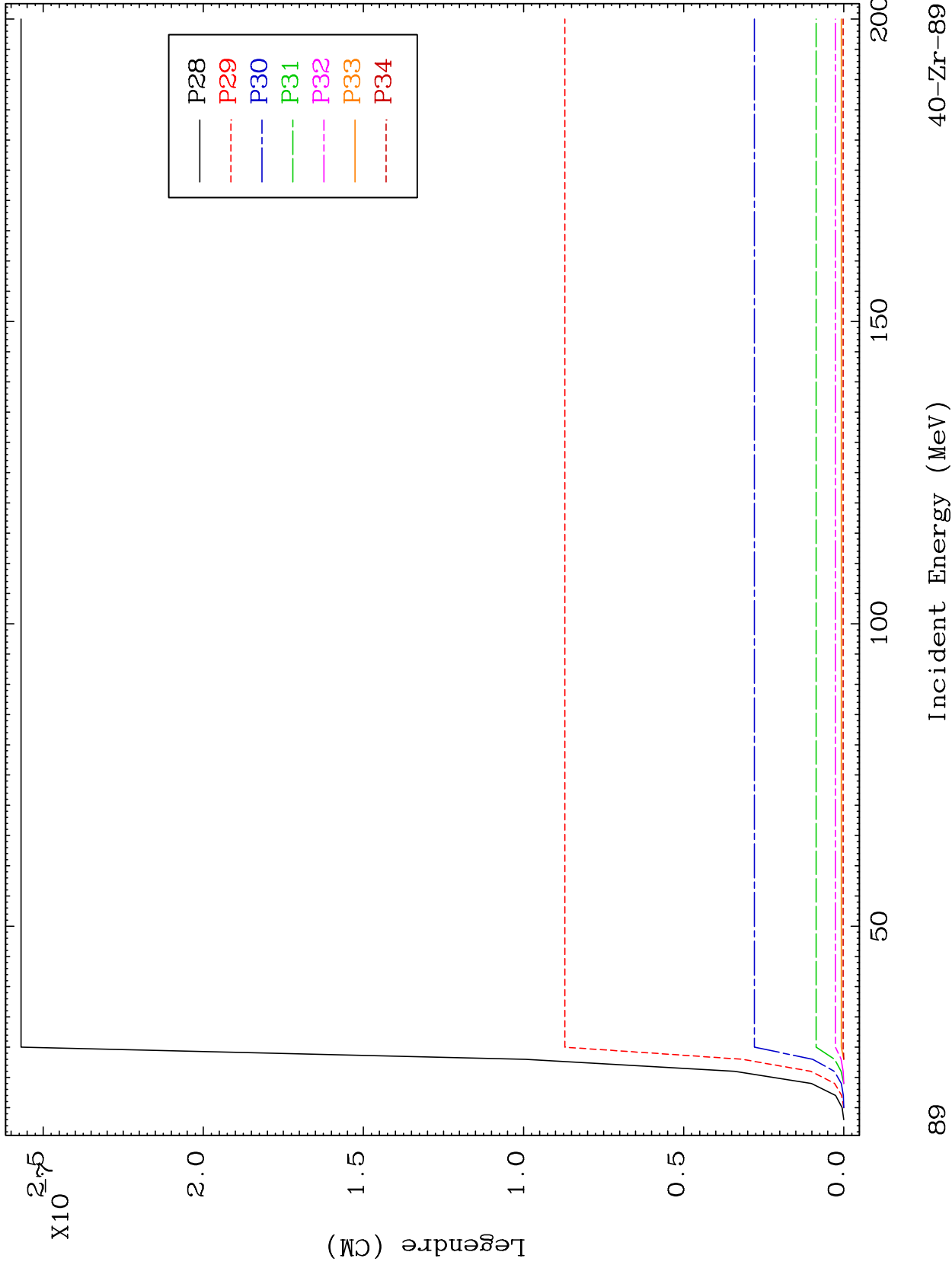


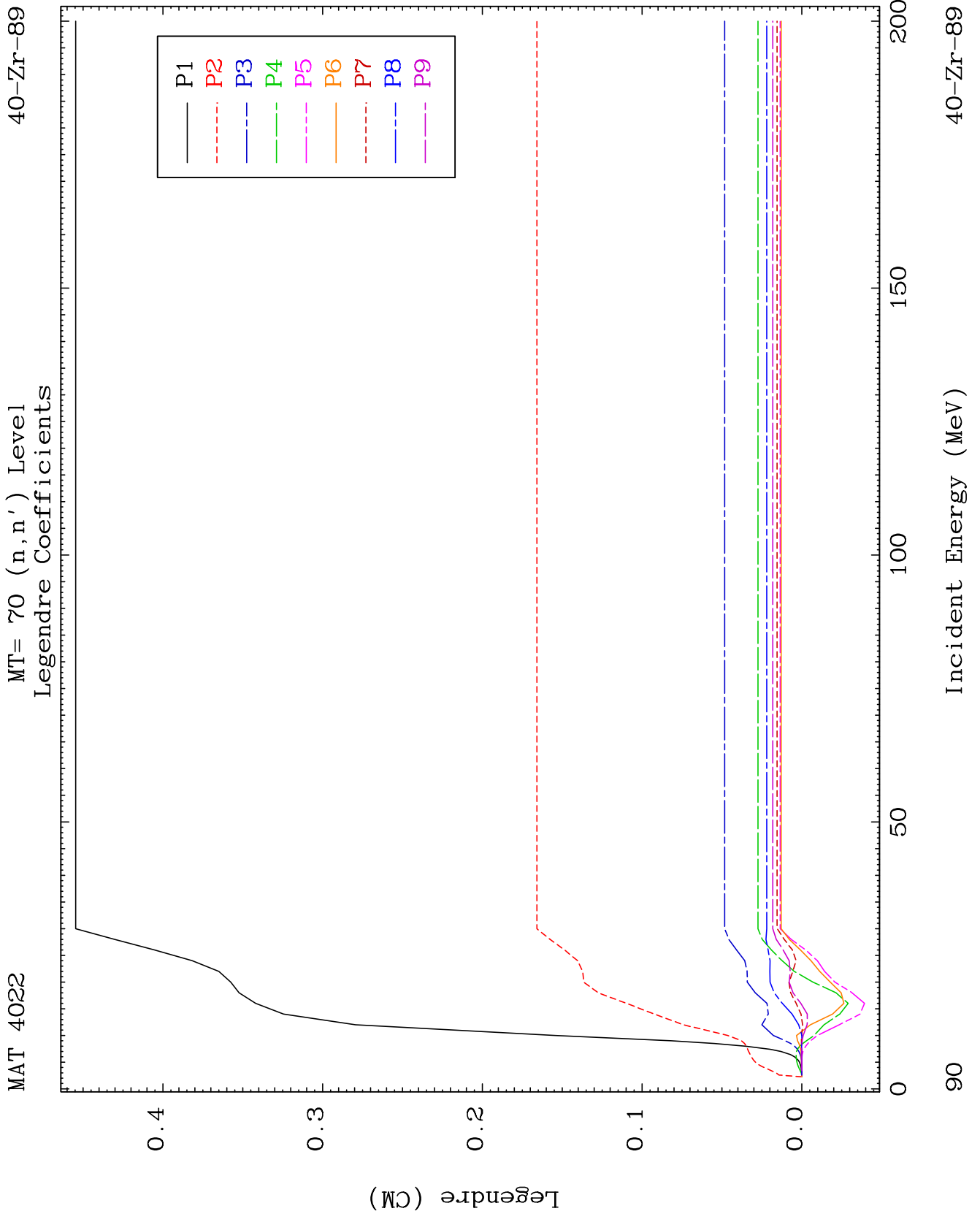


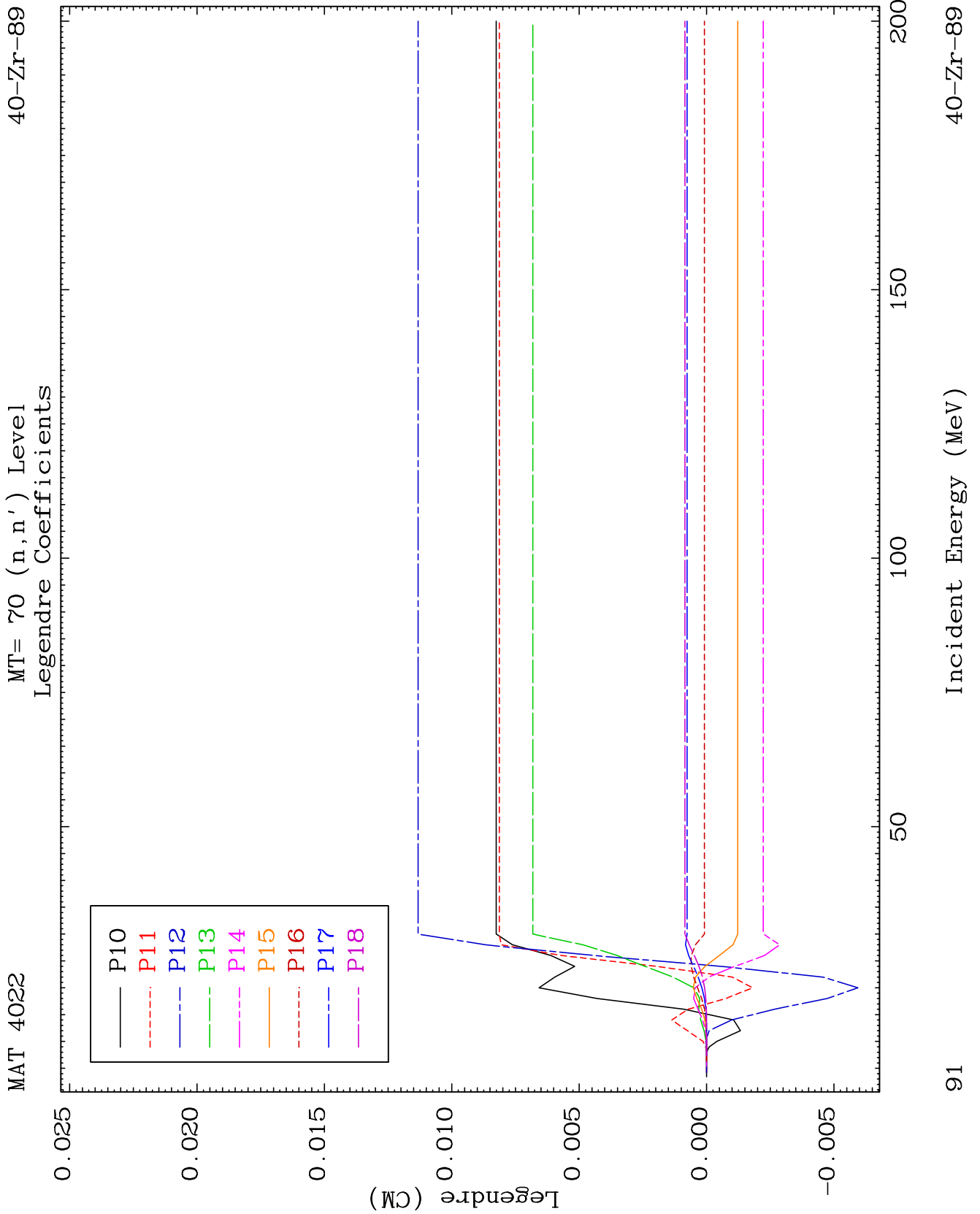
MAT 4022

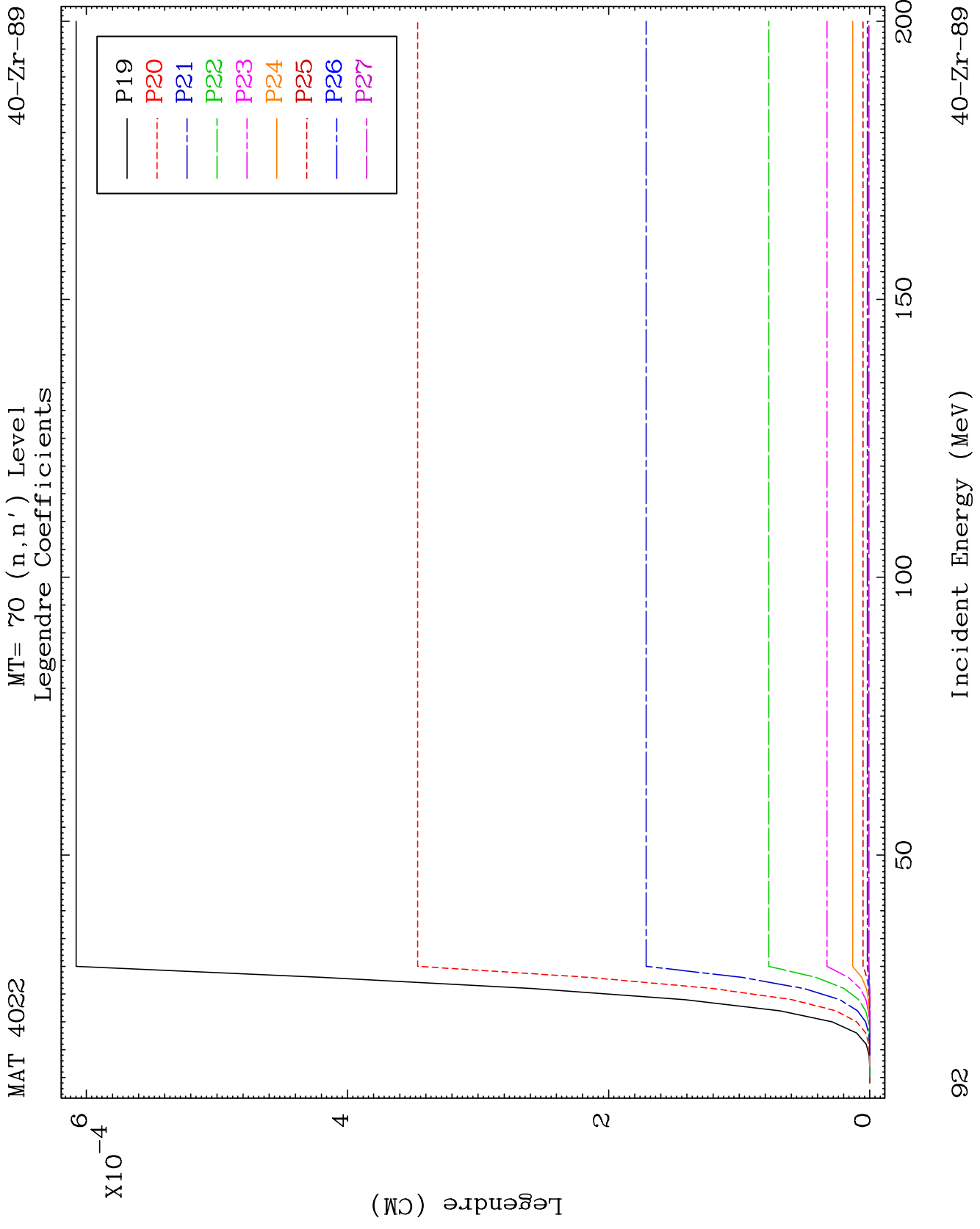
MT= 69 (n,n') Level  
Legendre Coefficients

40-Zr-89





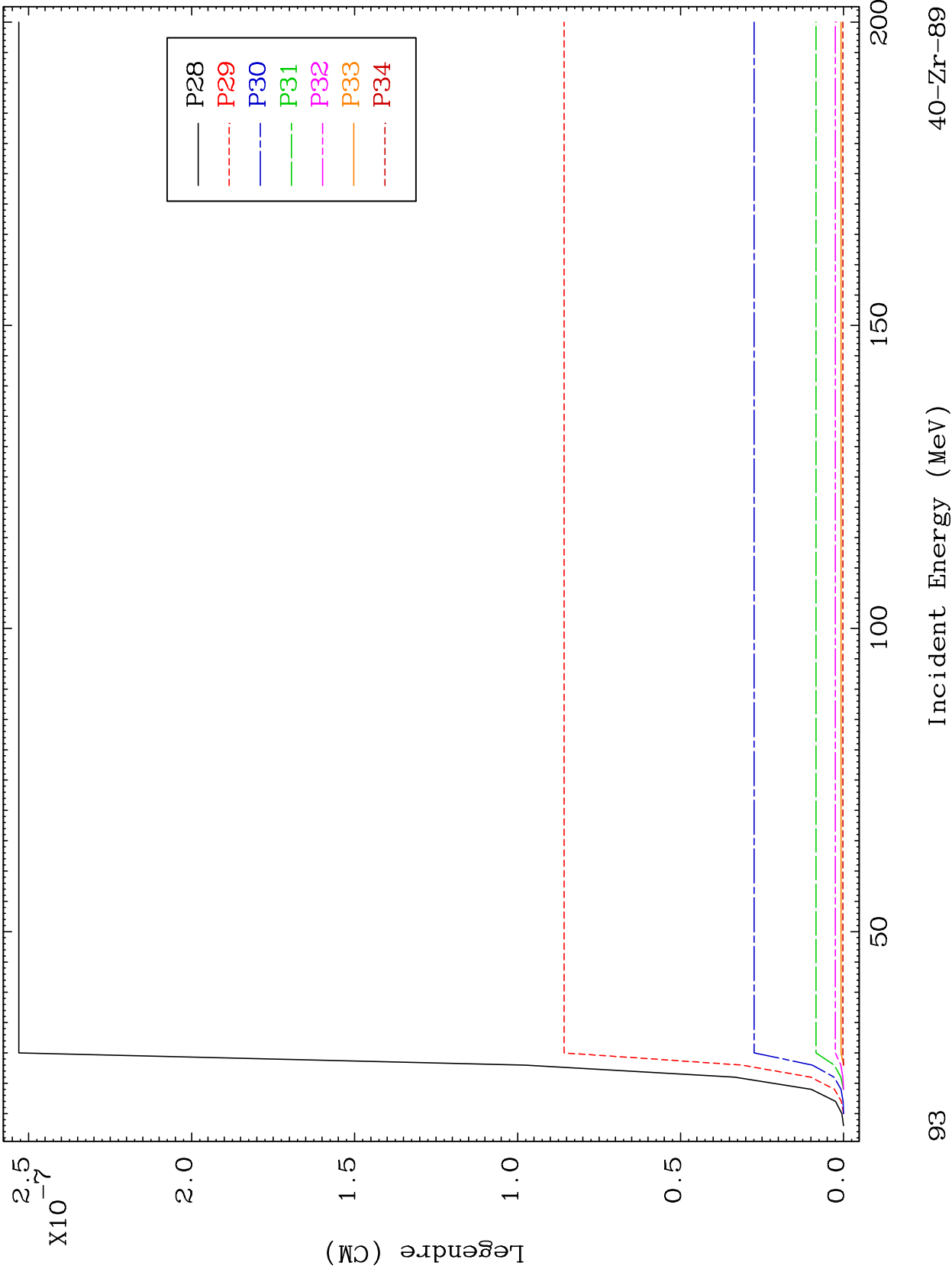




MAT 4022

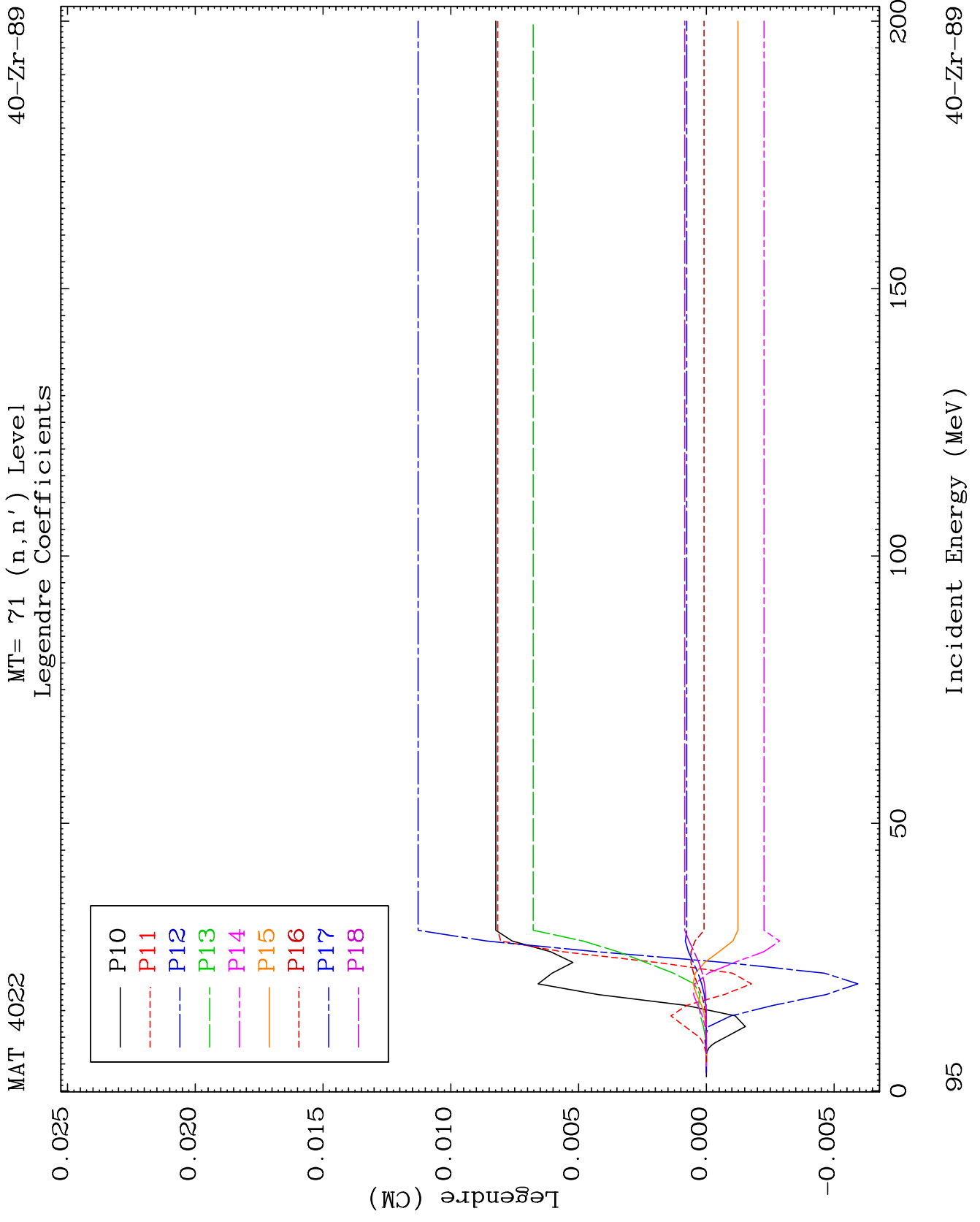
MT= 70 (n,n') Level  
Legendre Coefficients

40-Zr-89



93



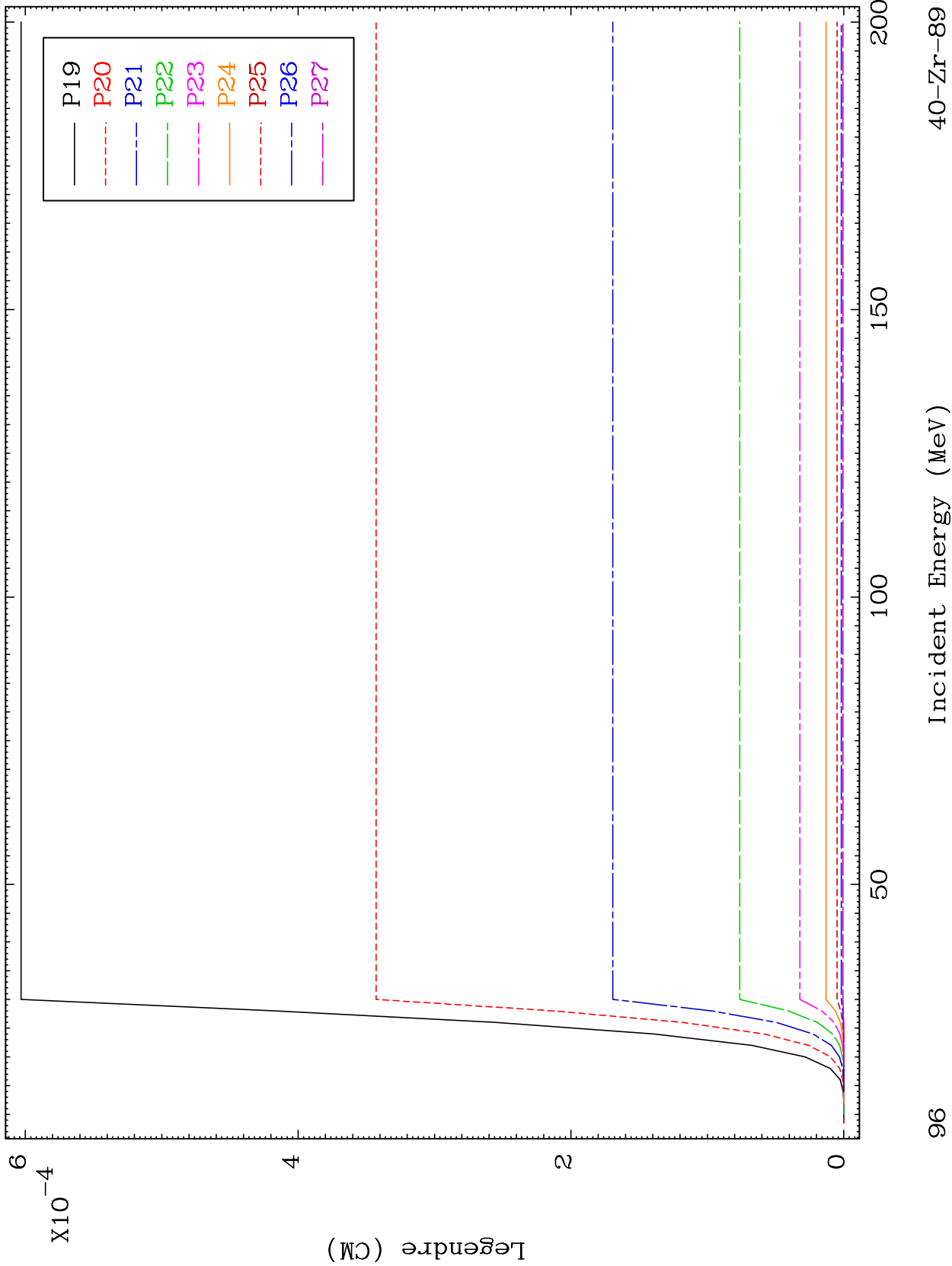


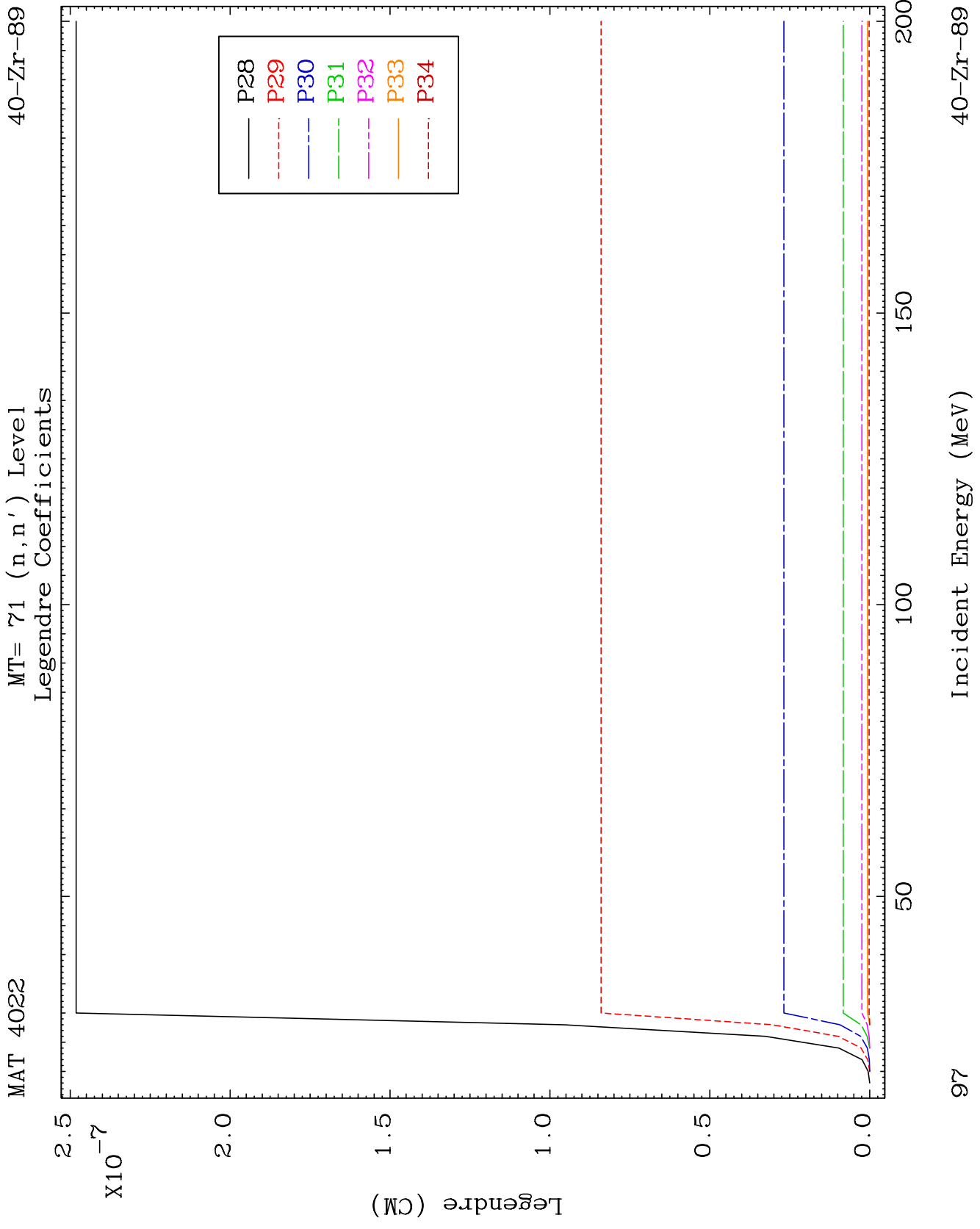


MAT 4022

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

40-Zr-89

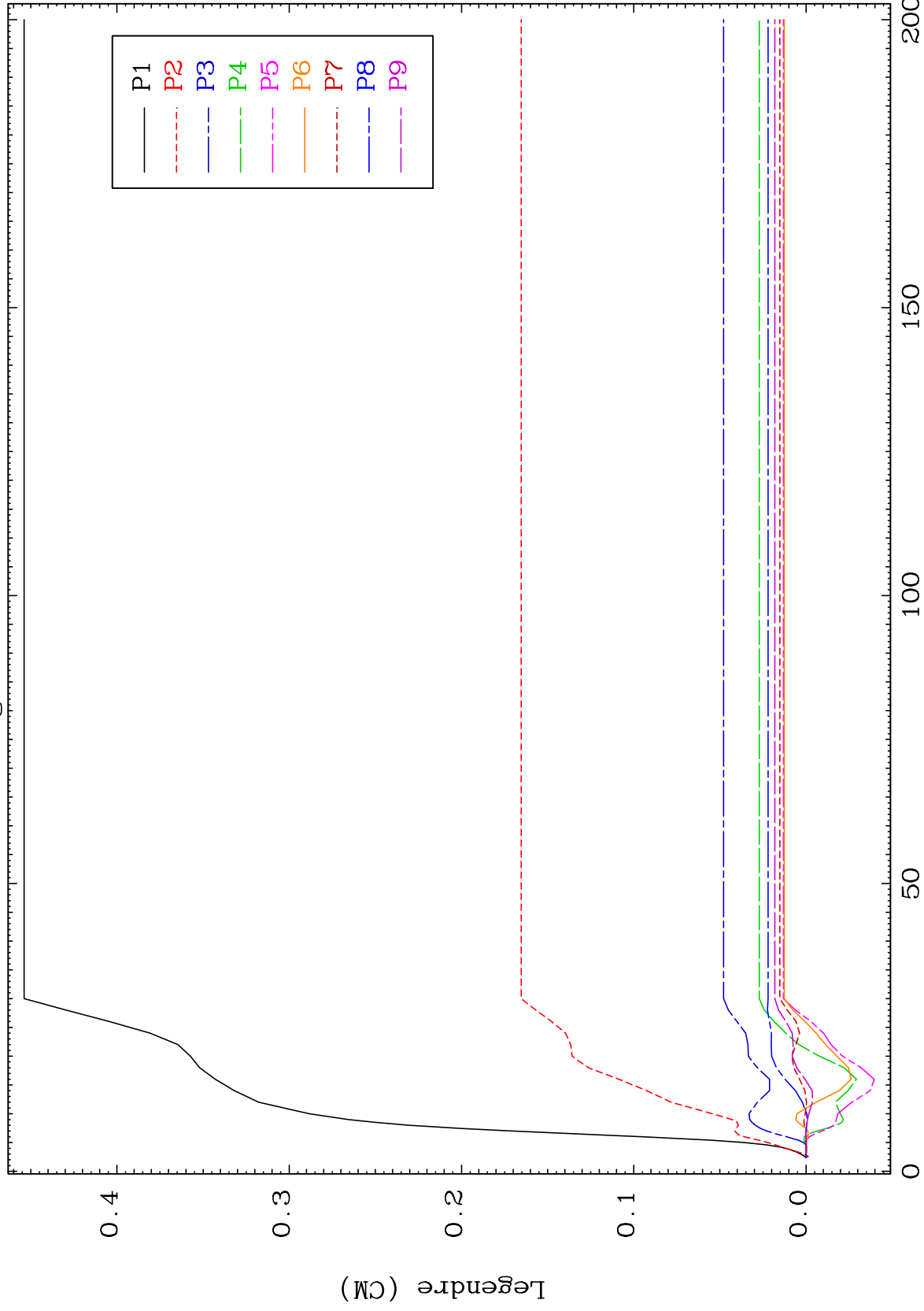




MAT 4022

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

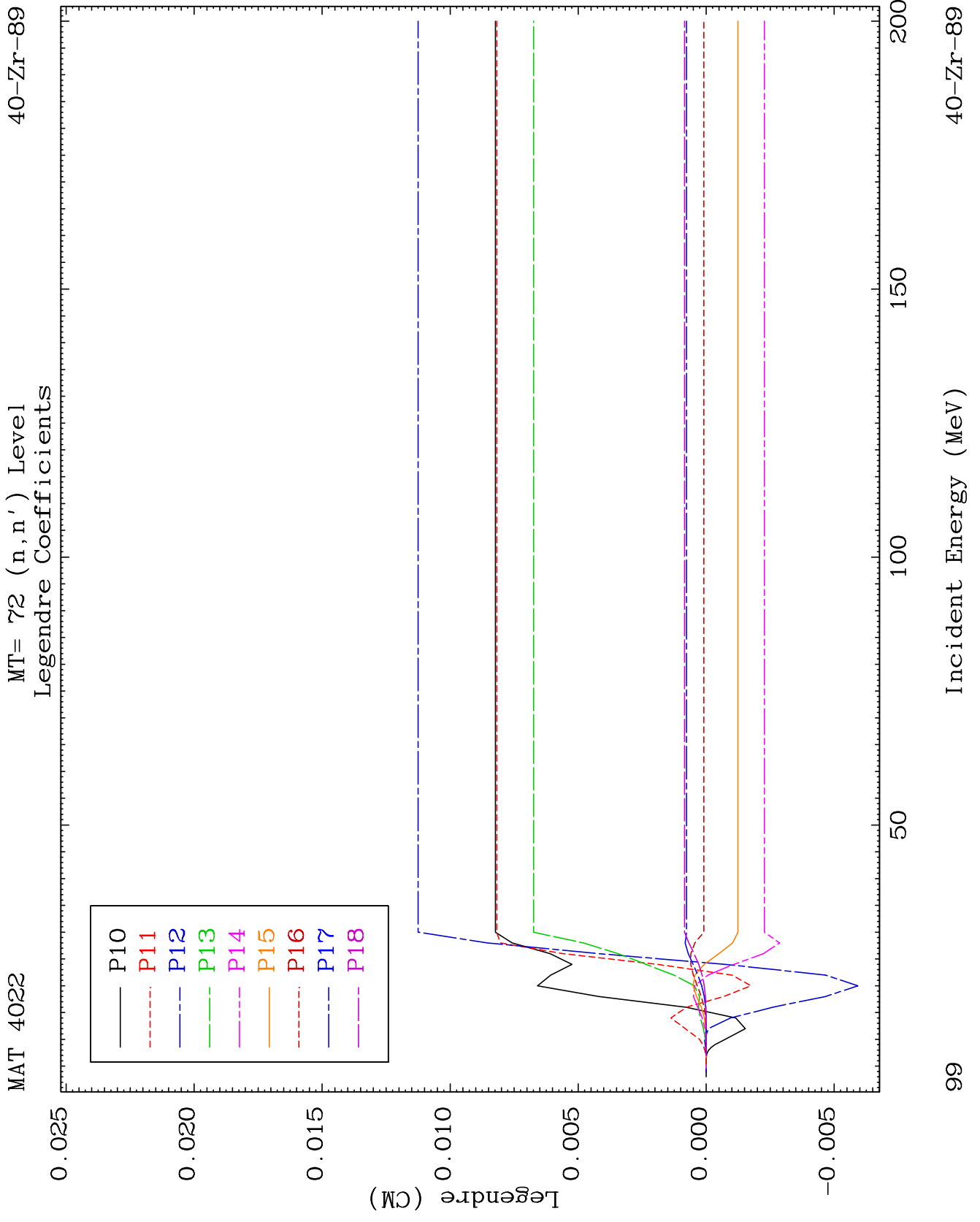
40-Zr-89

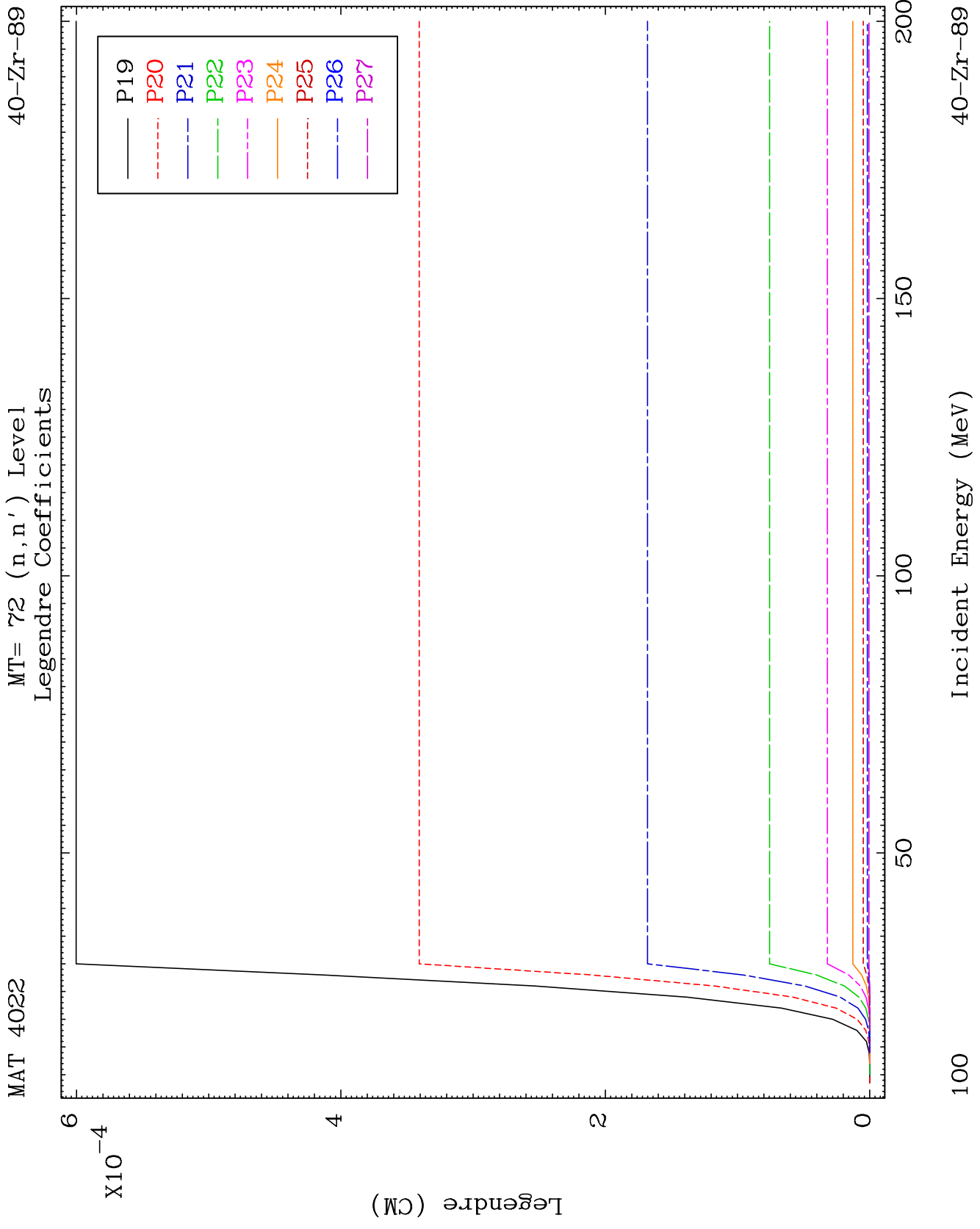


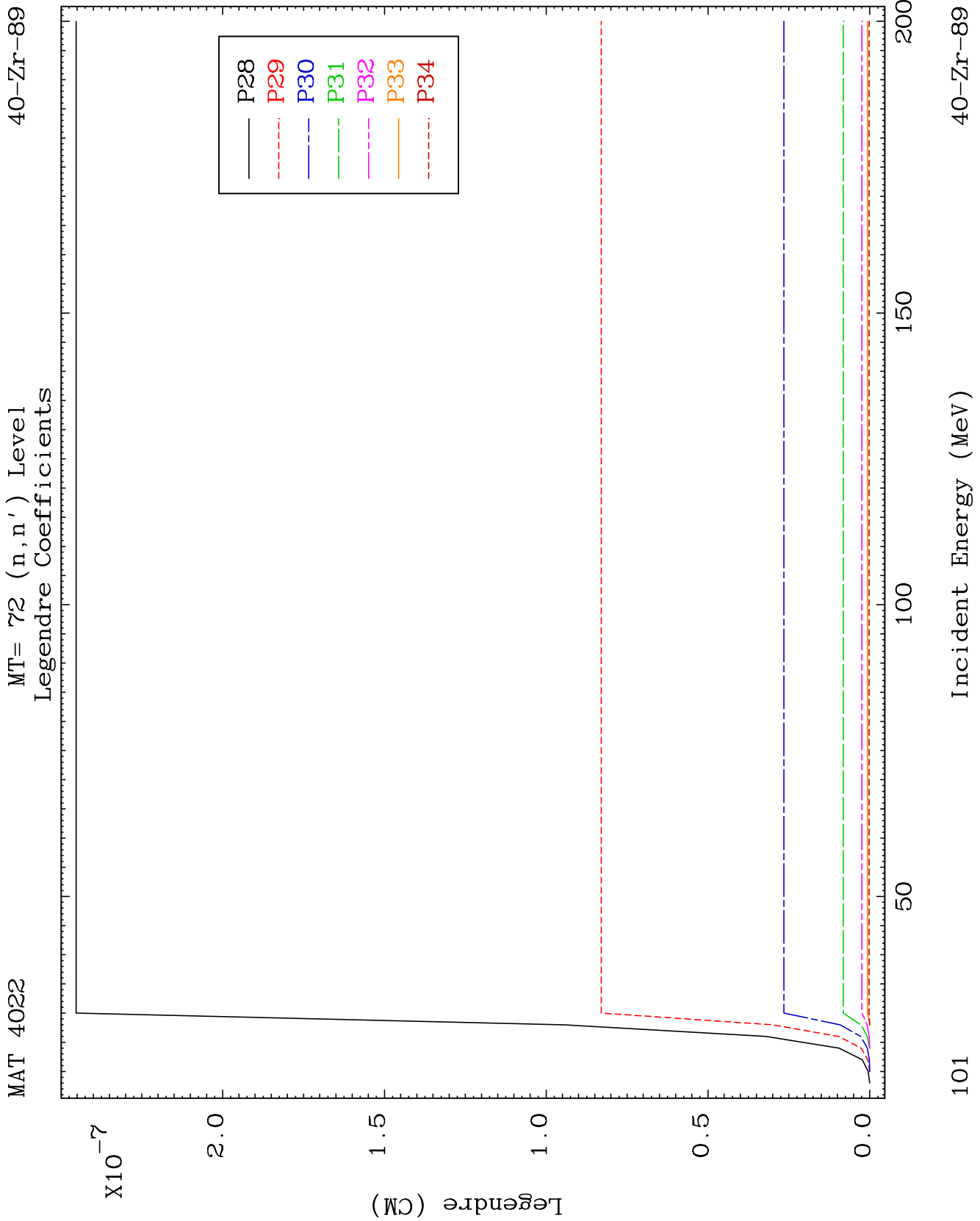
98

Incident Energy (MeV)

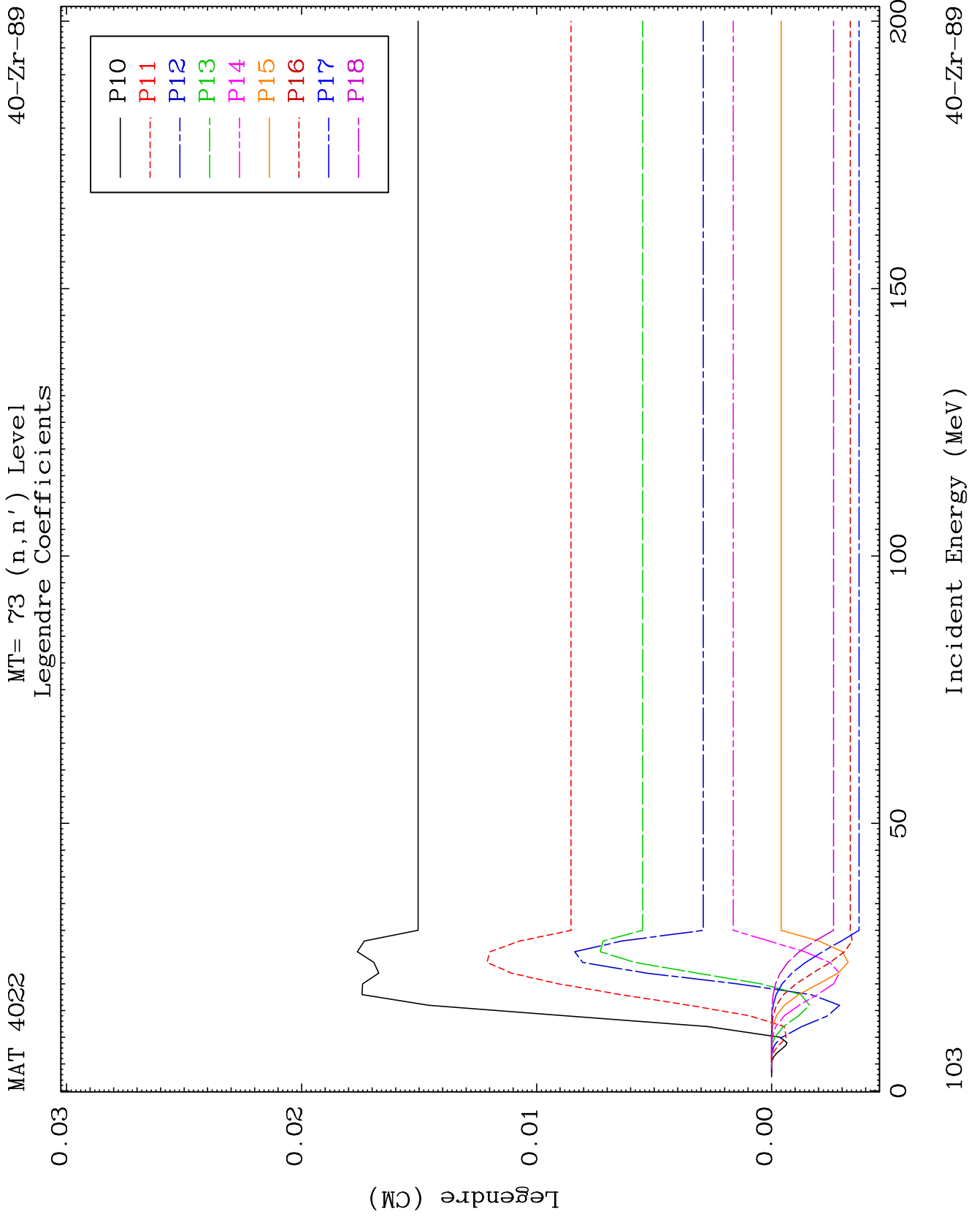
40-Zr-89



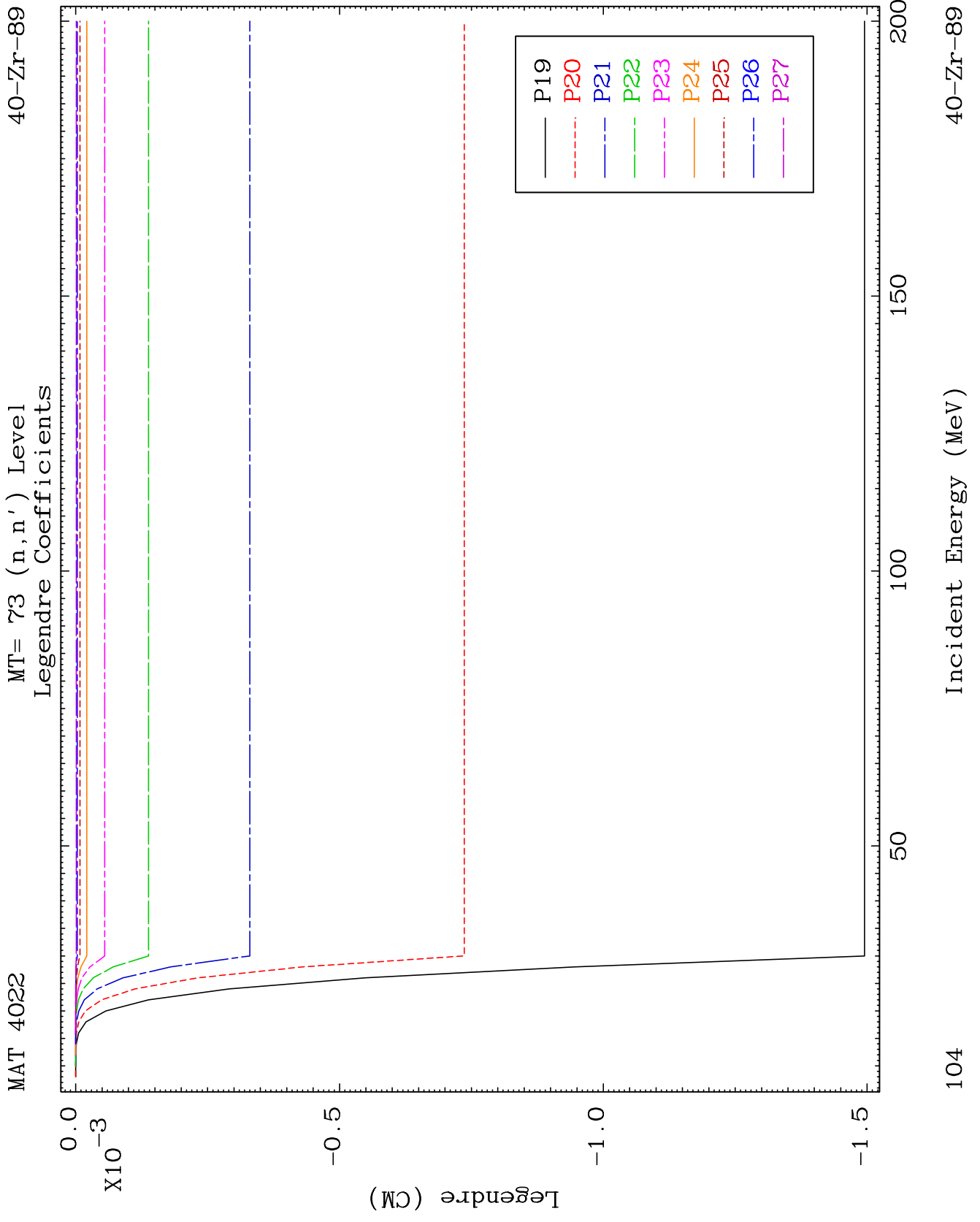


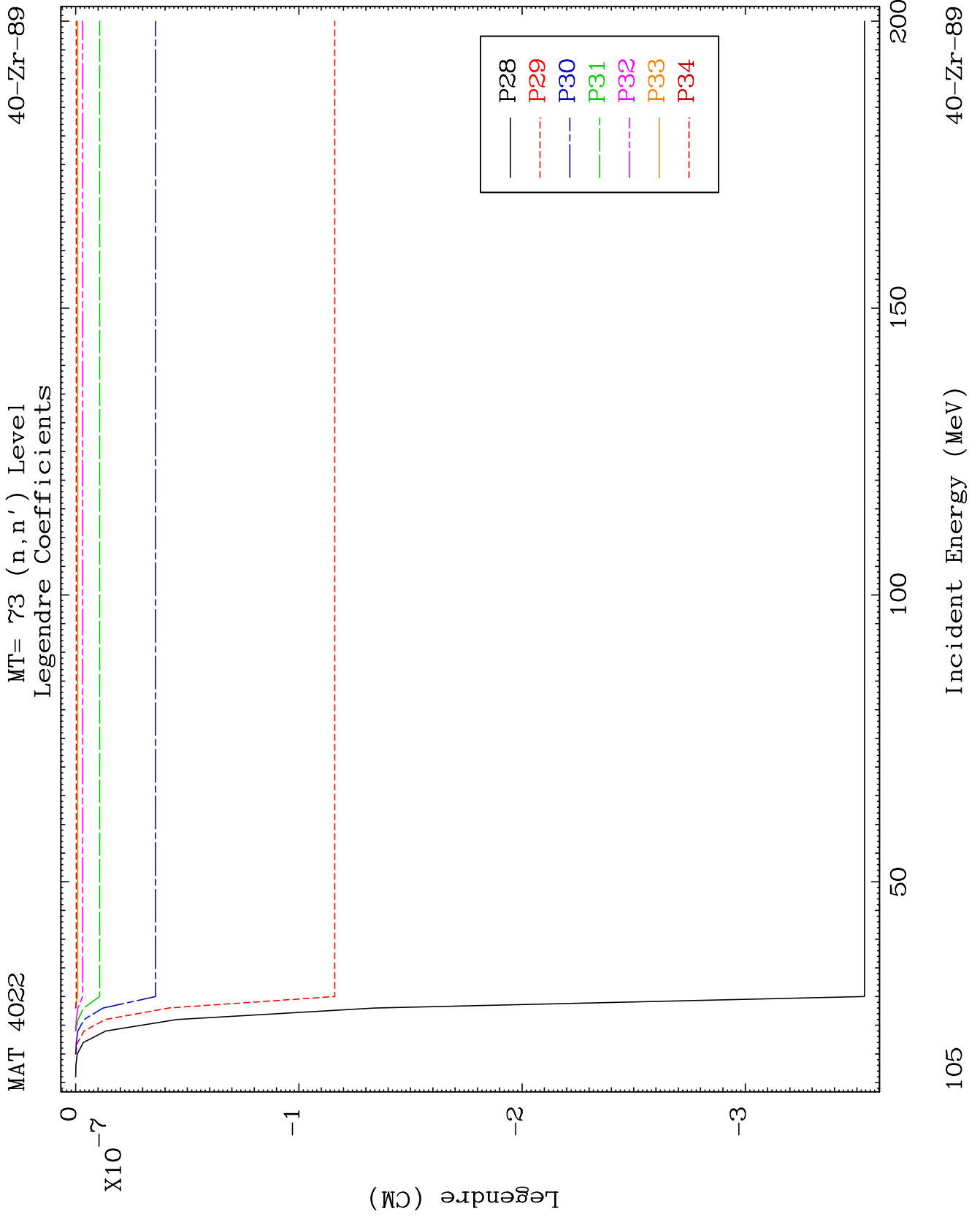




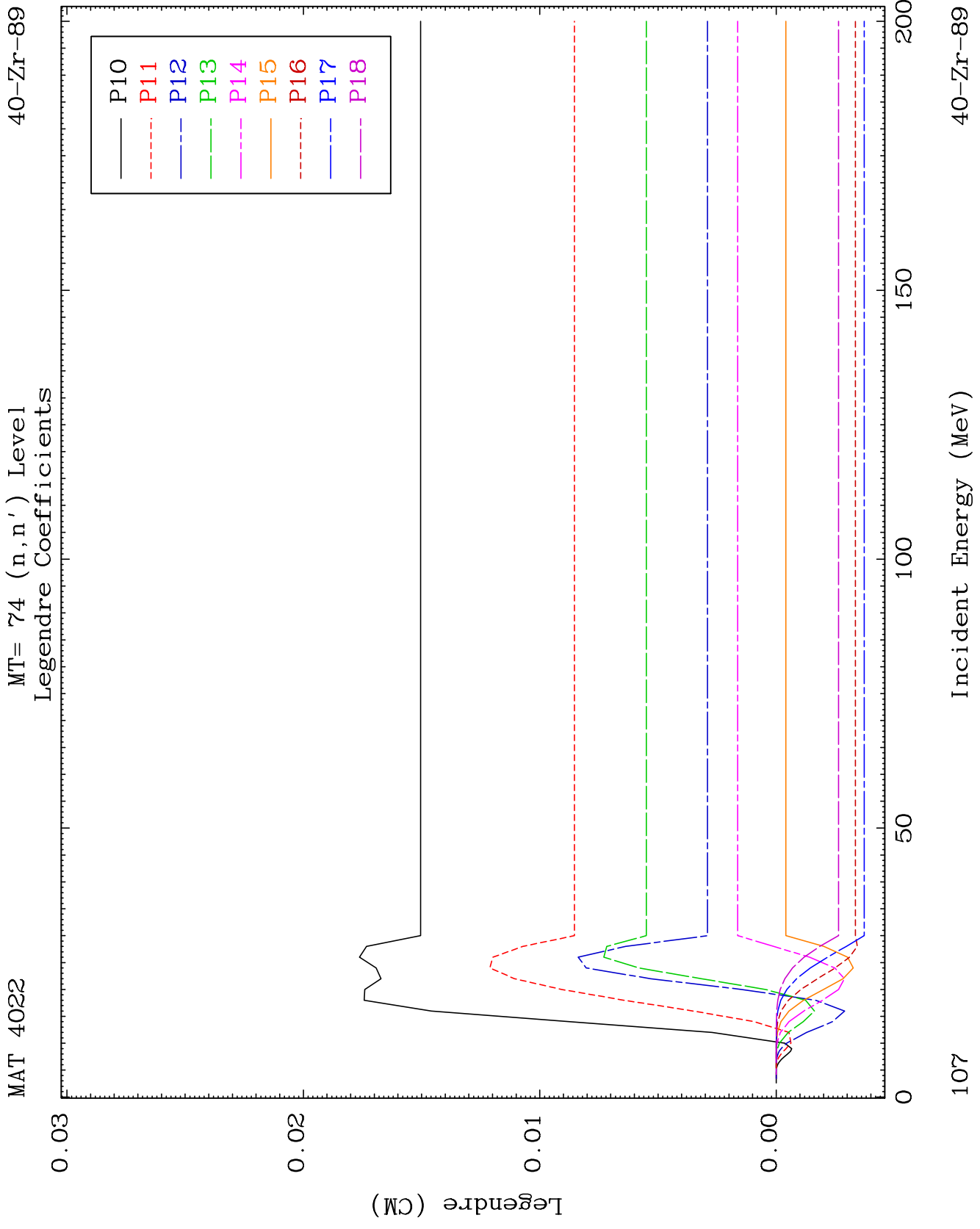


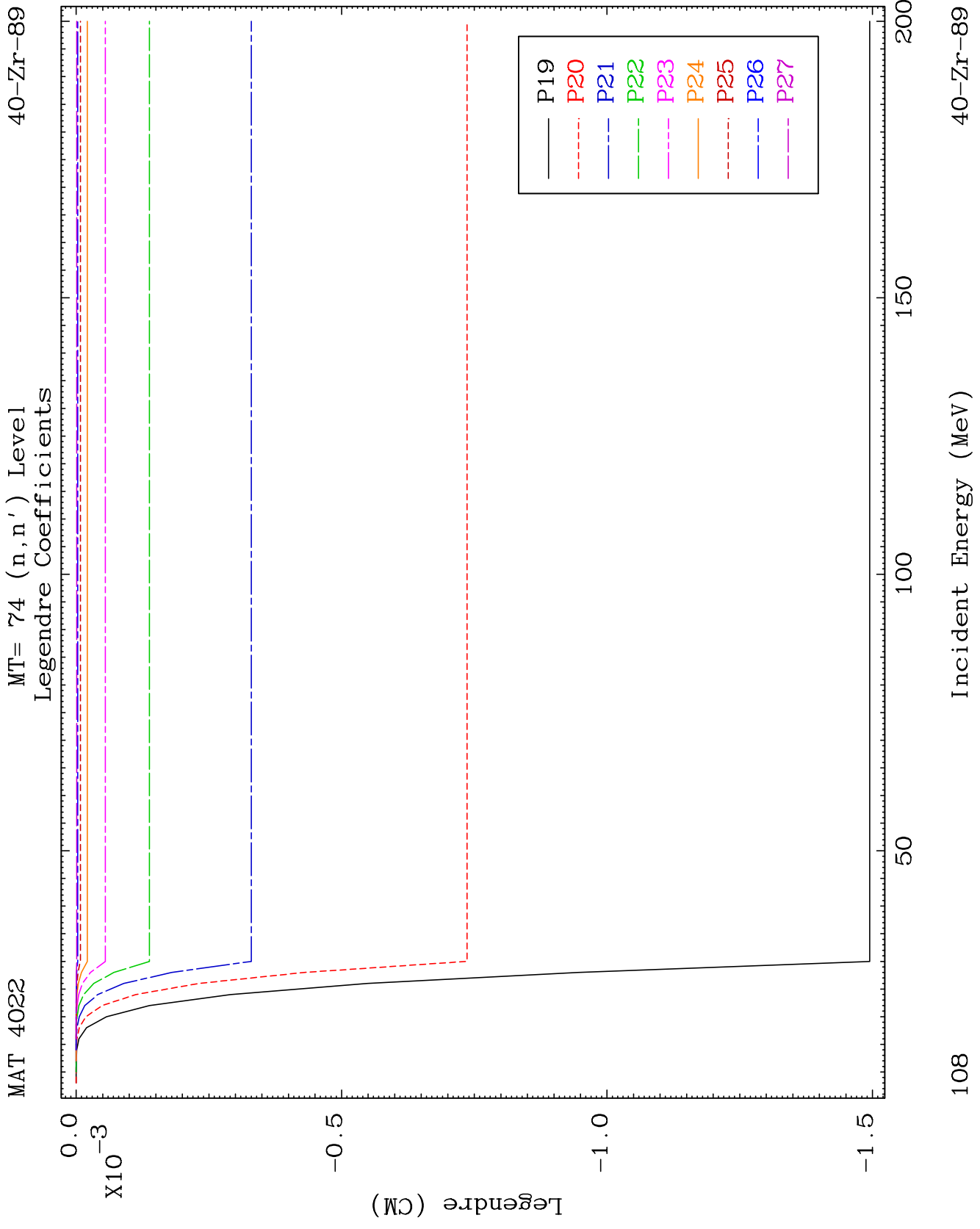


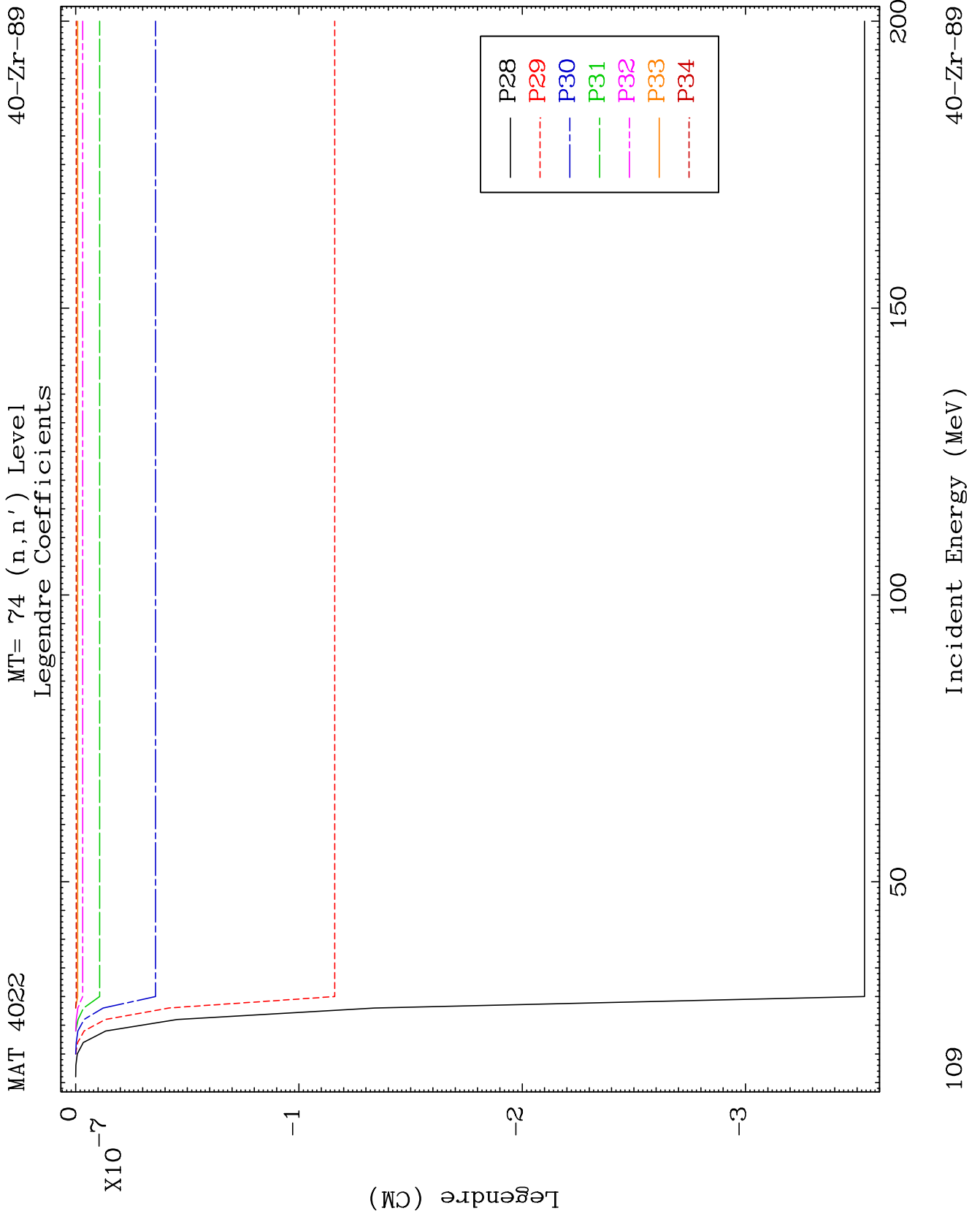




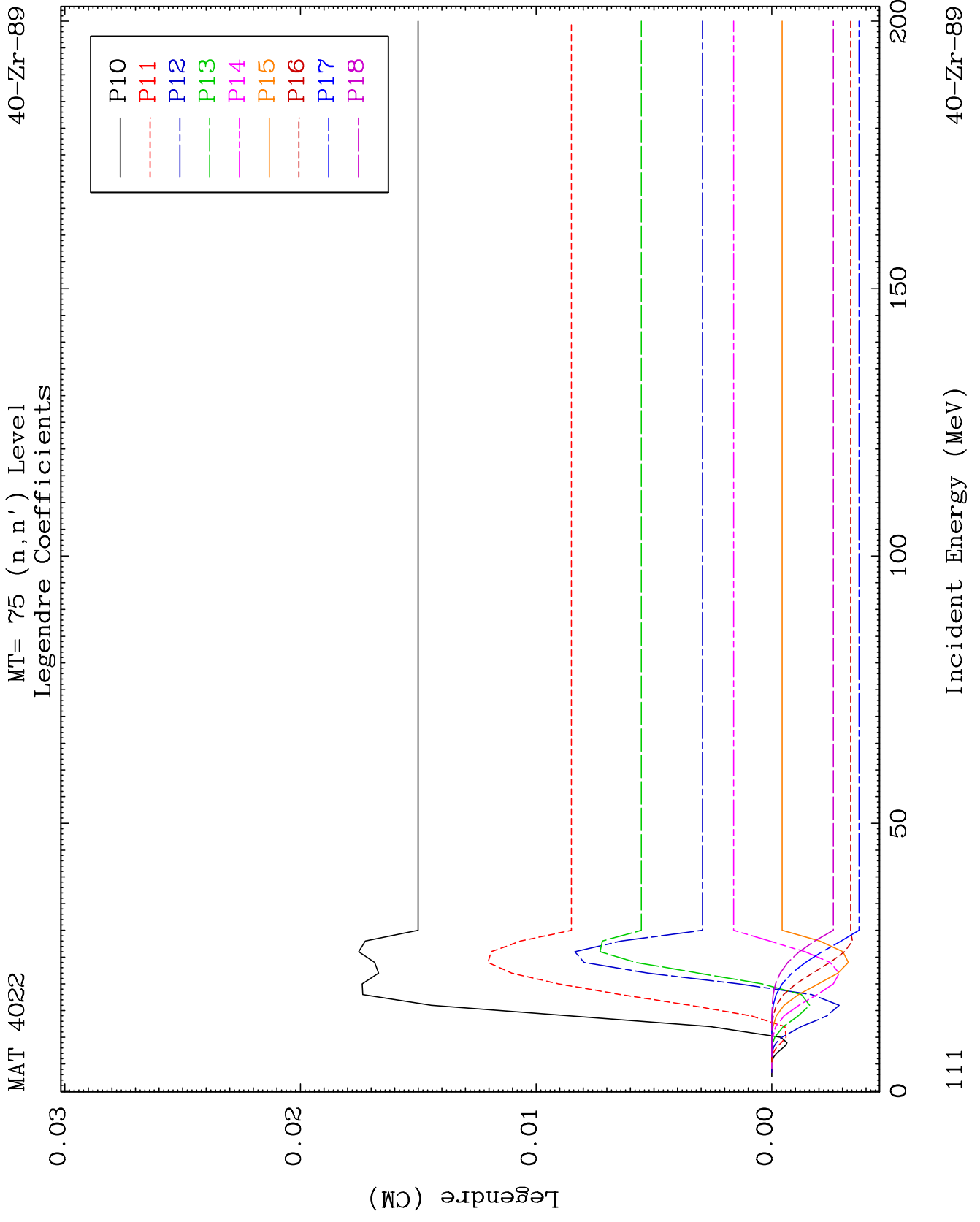




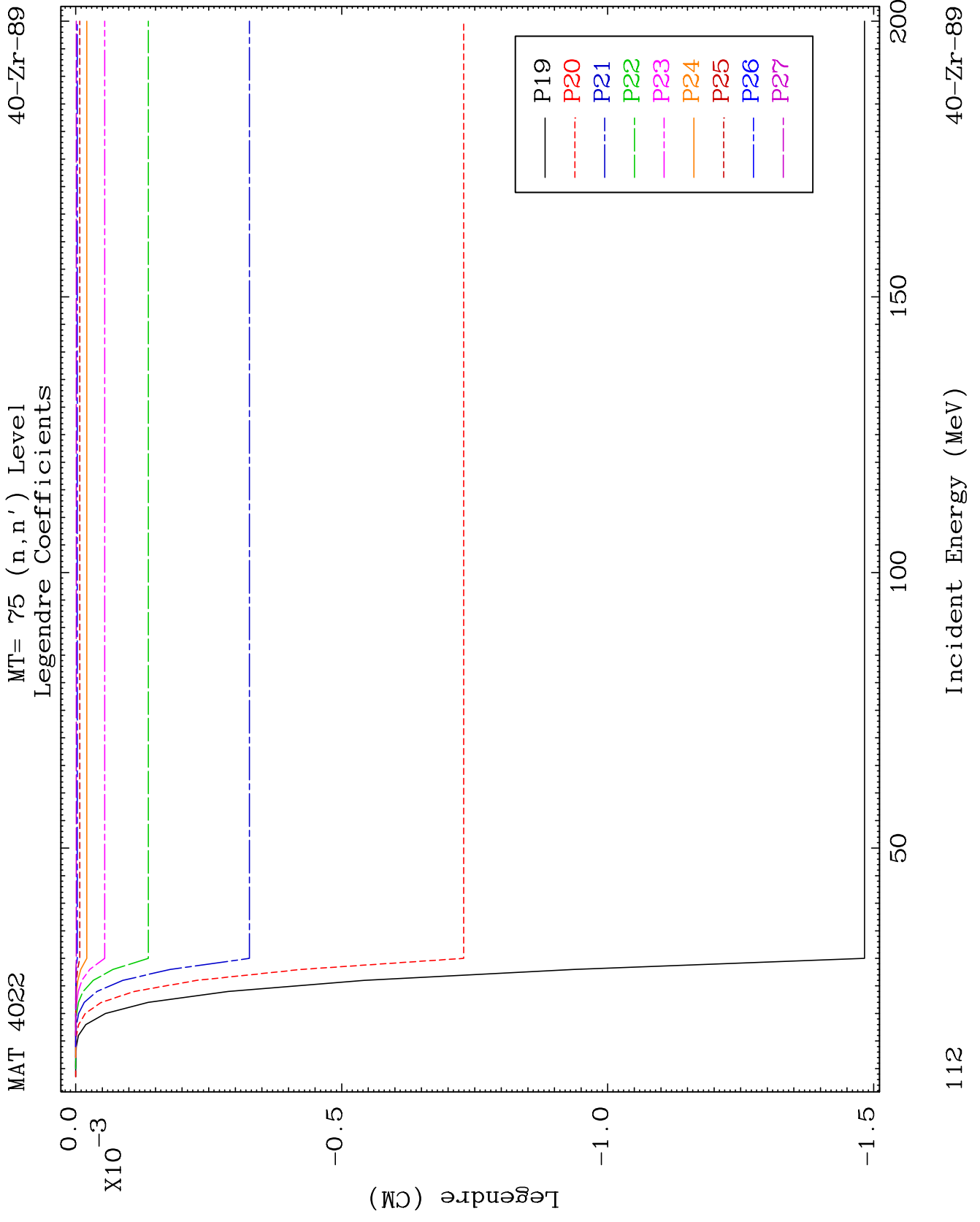


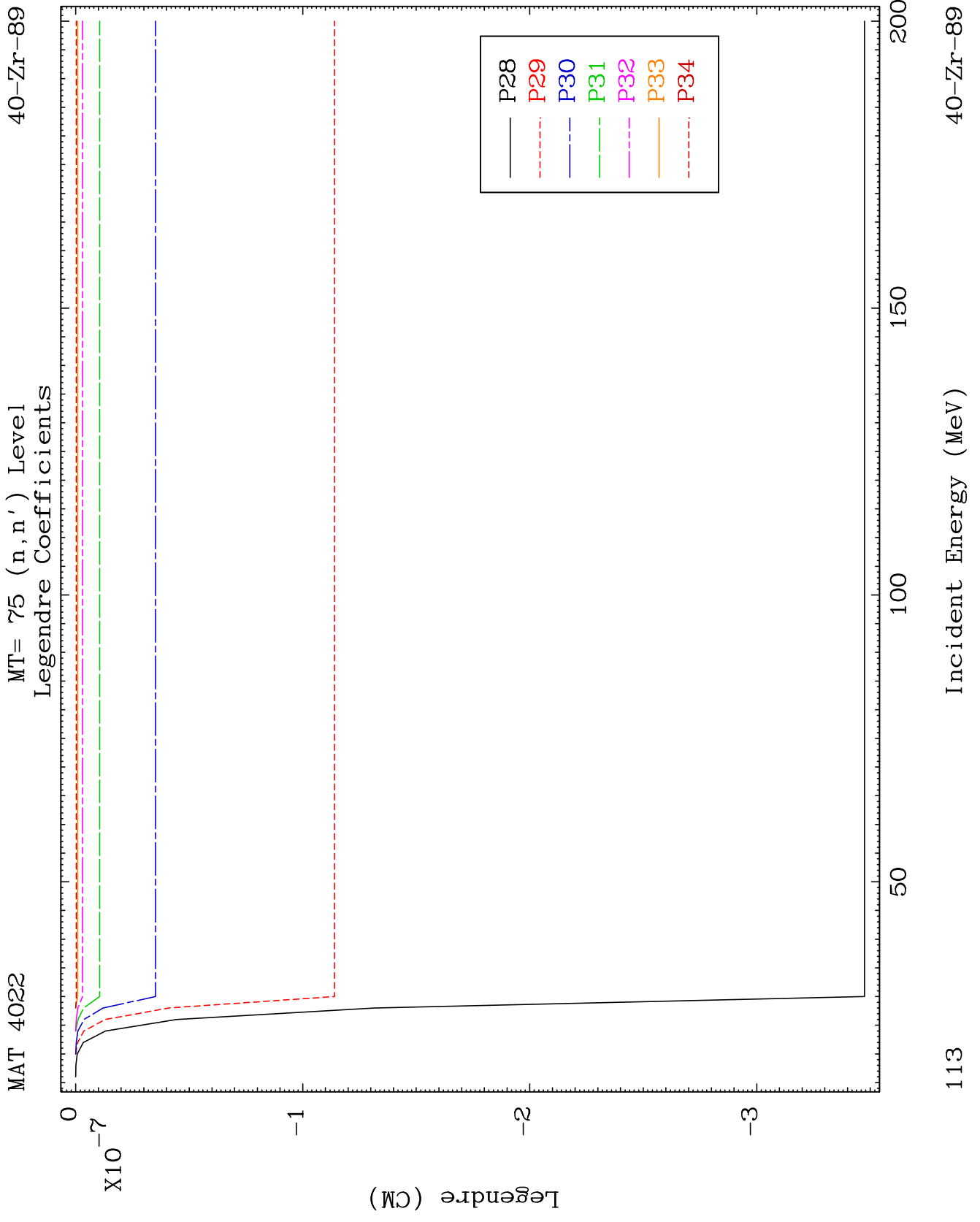


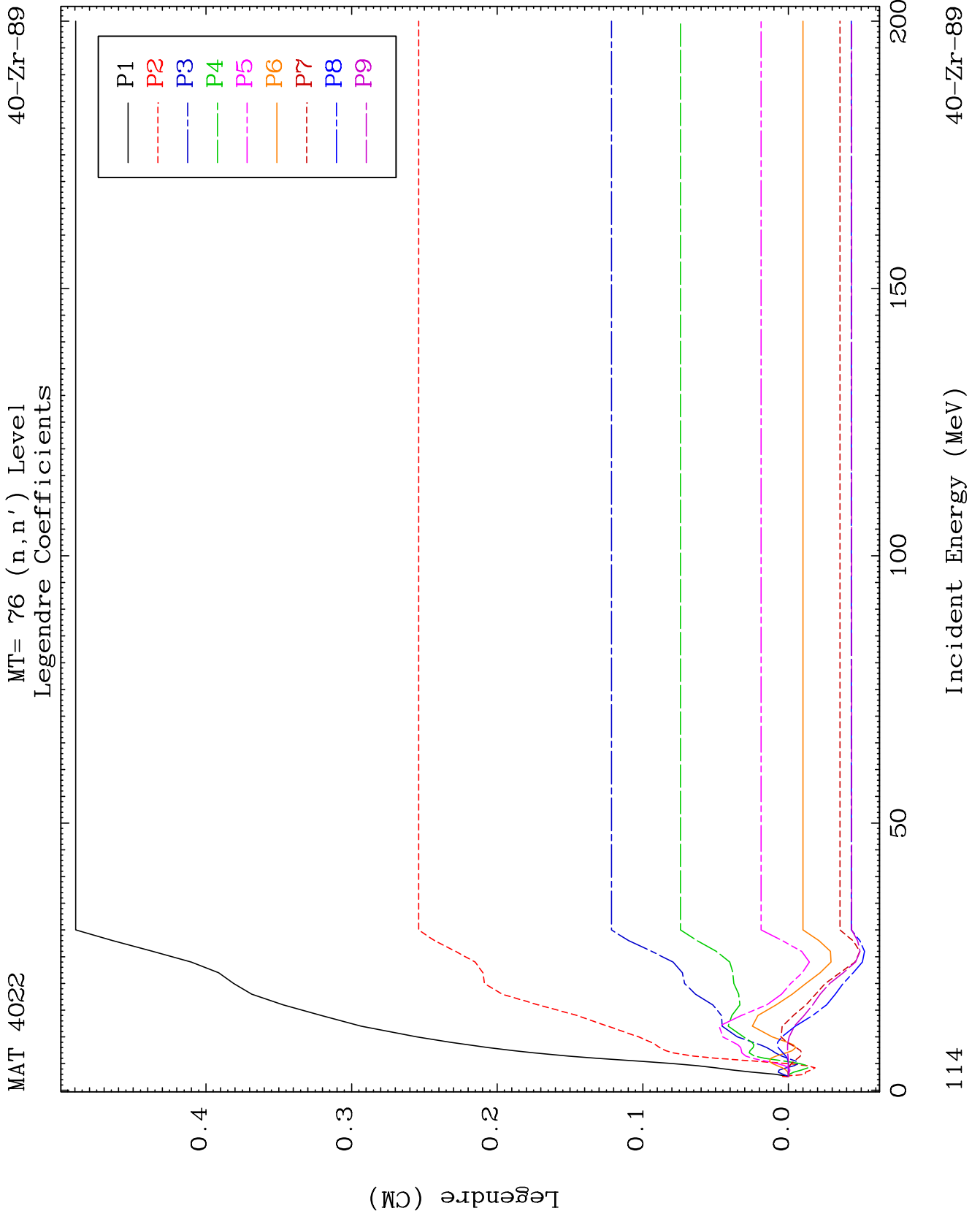


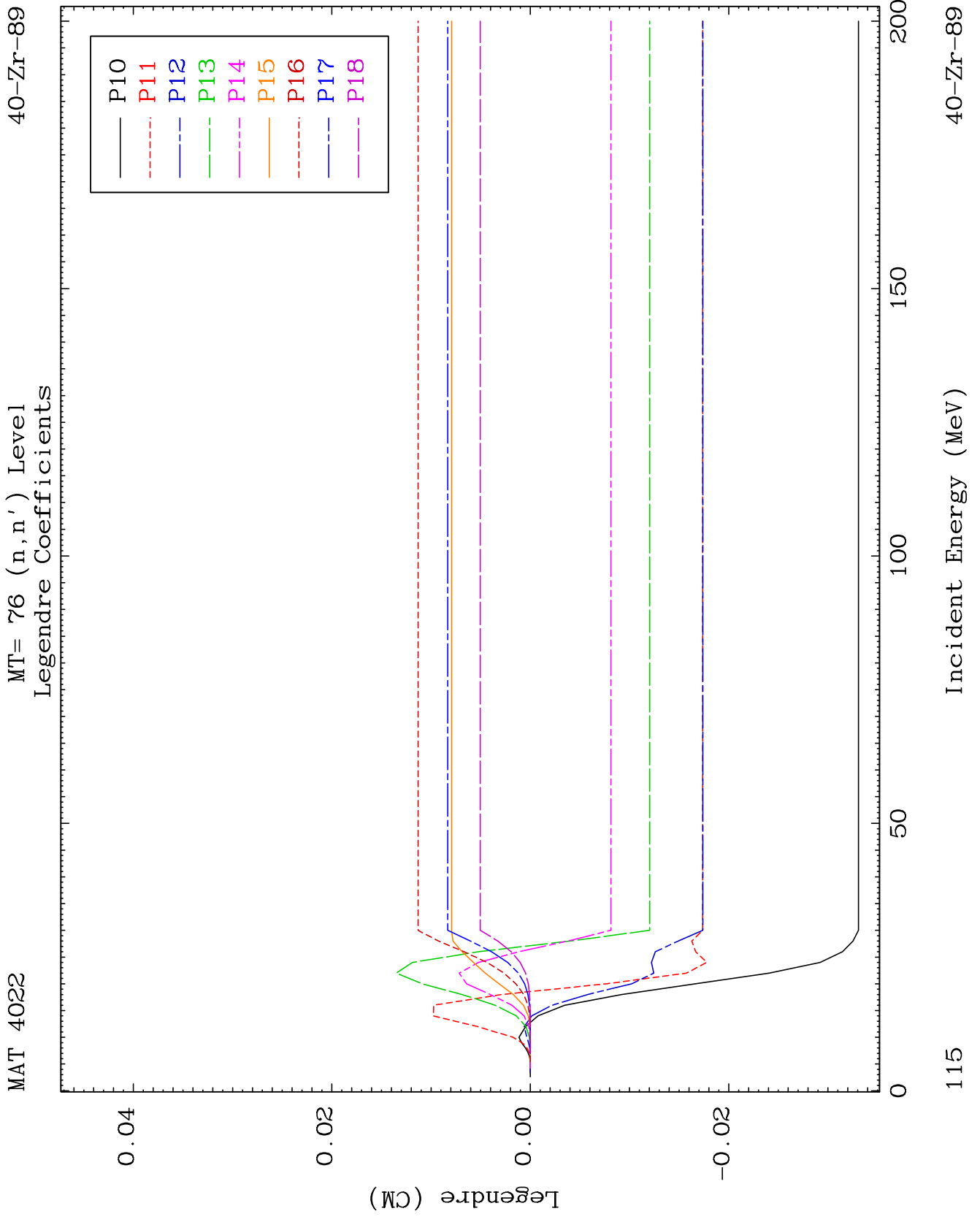








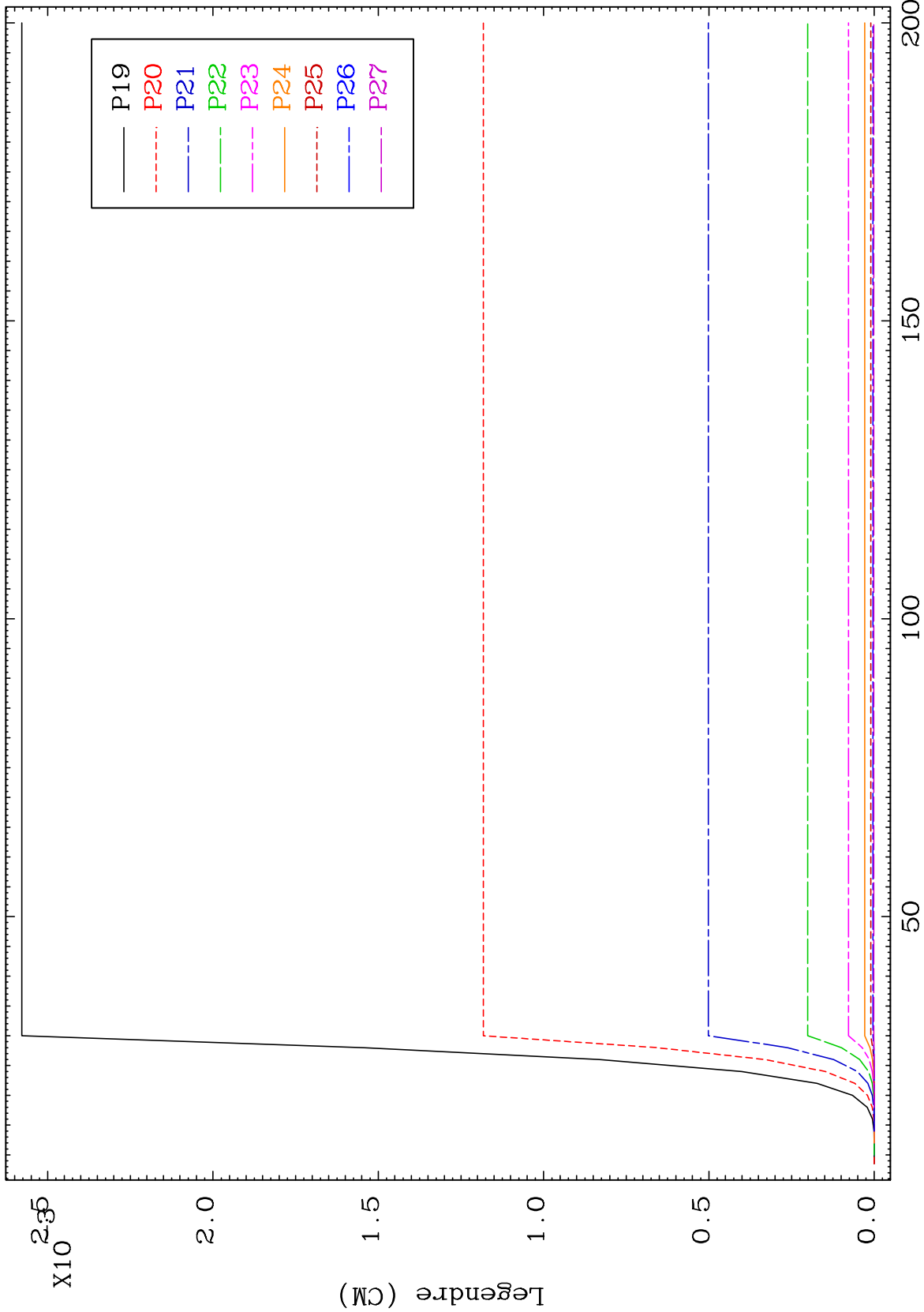




MAT 4022

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

40-Zr-89



116

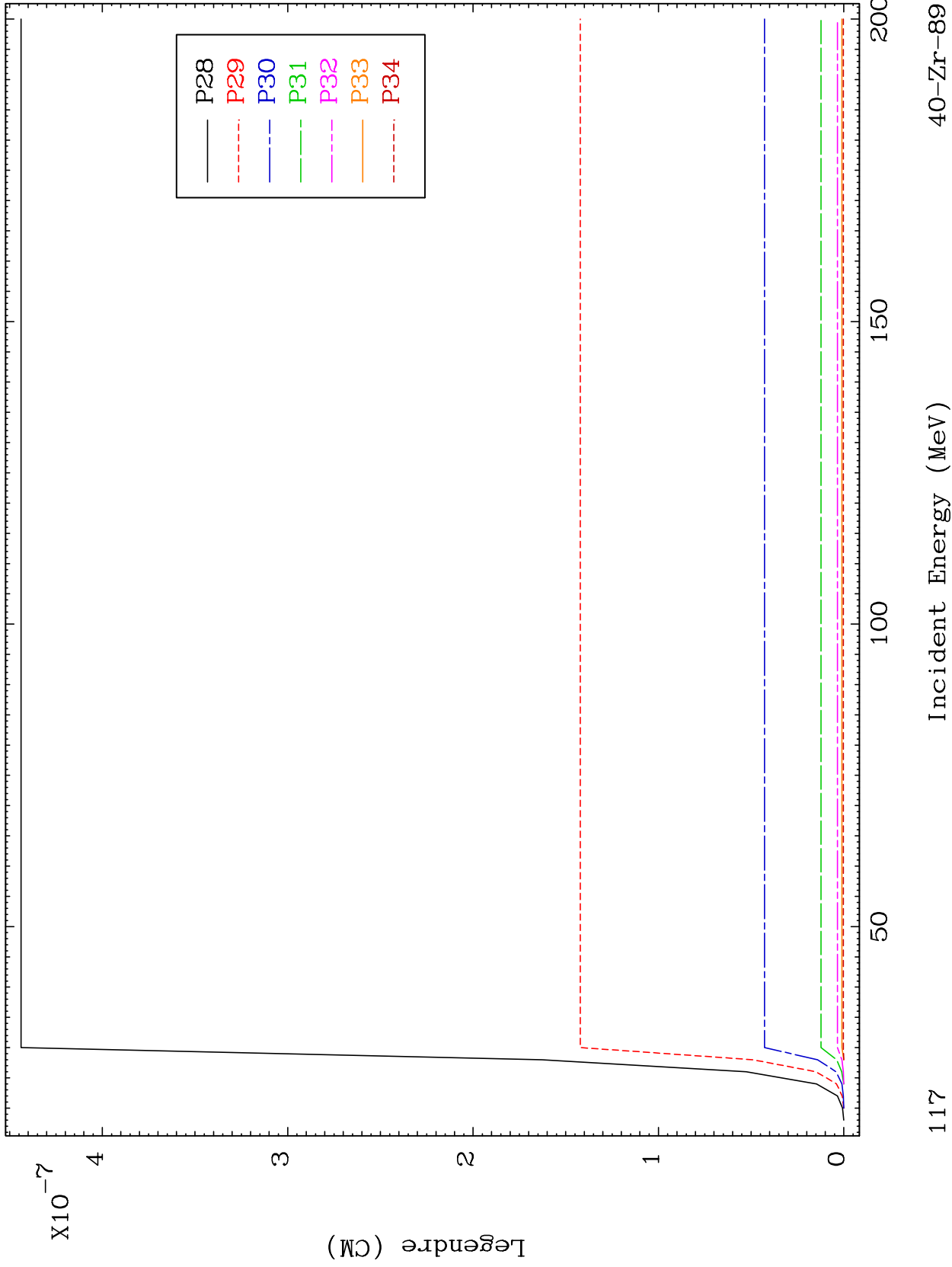
Incident Energy (MeV)

40-Zr-89

MAT 4022

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

40-Zr-89



117

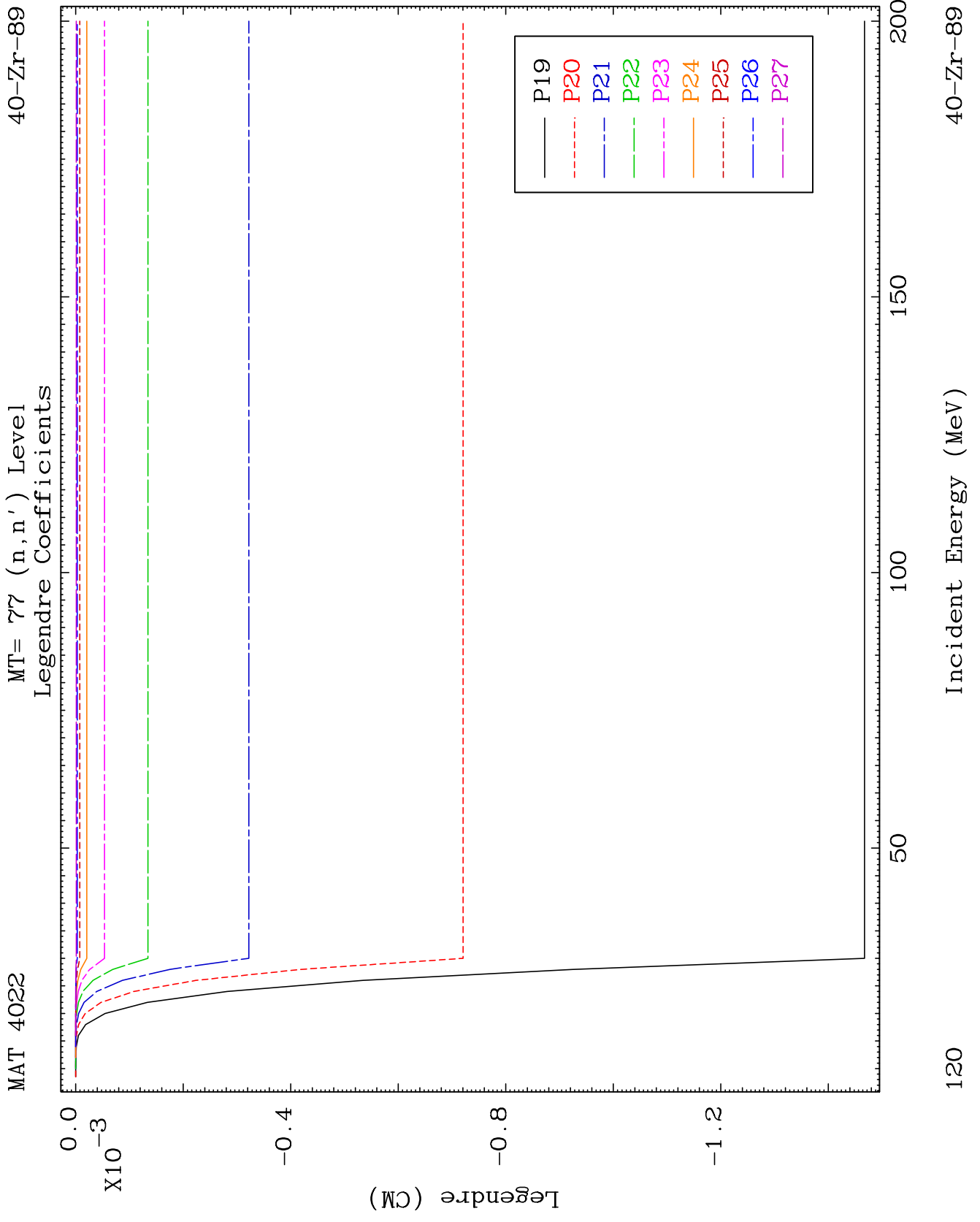
Incident Energy (MeV)

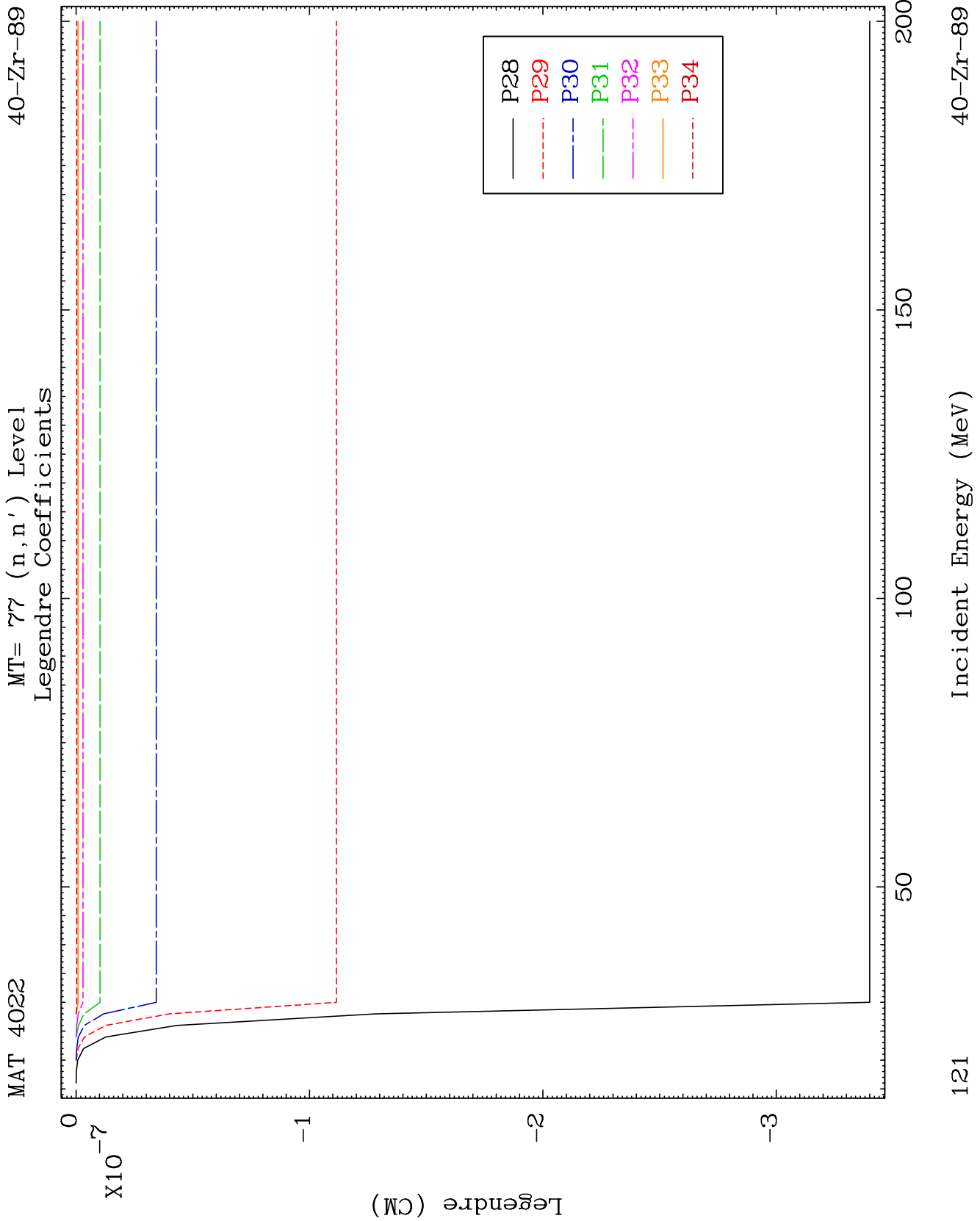
40-Zr-89







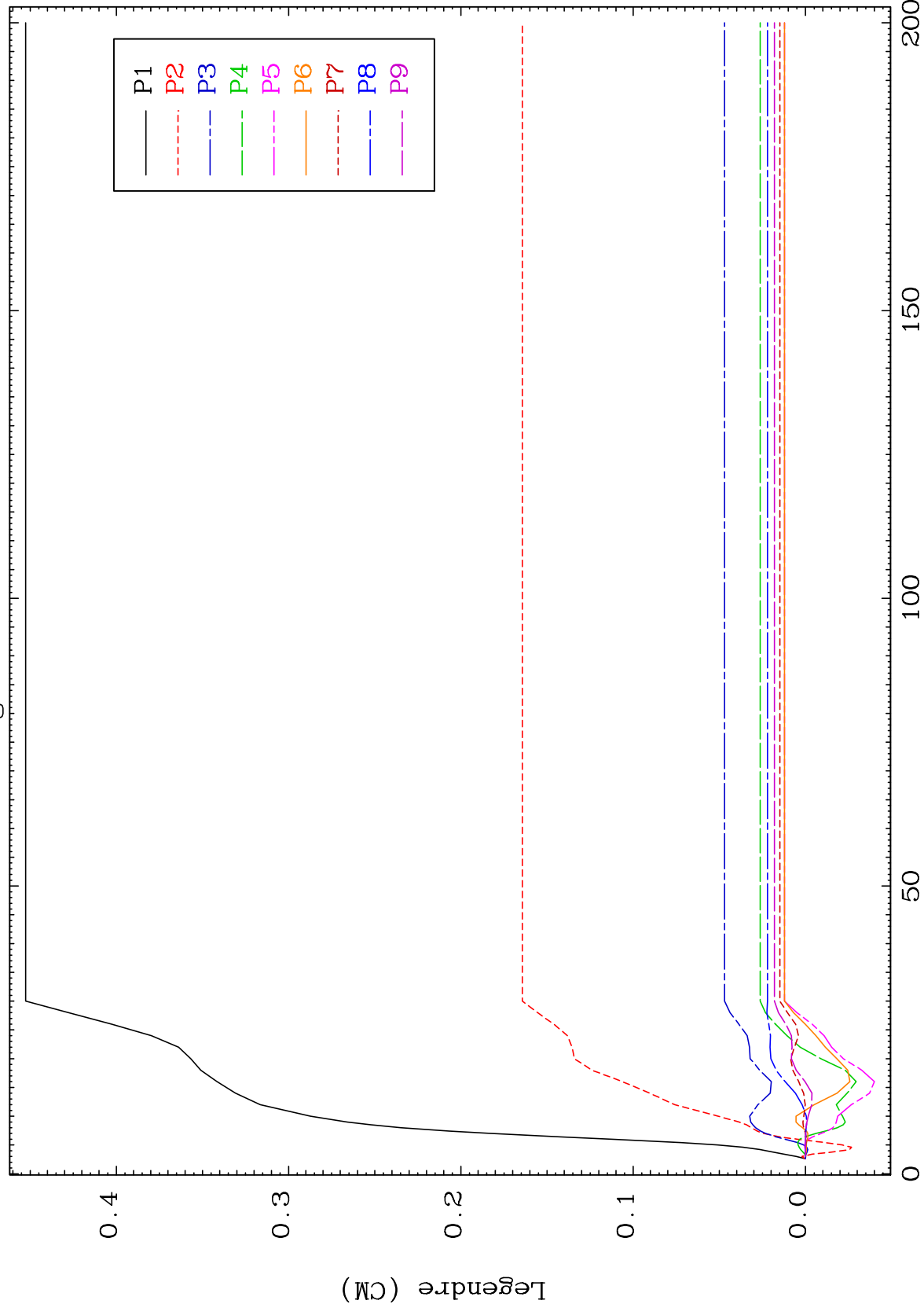




MAT 4022

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

40-Zr-89



122

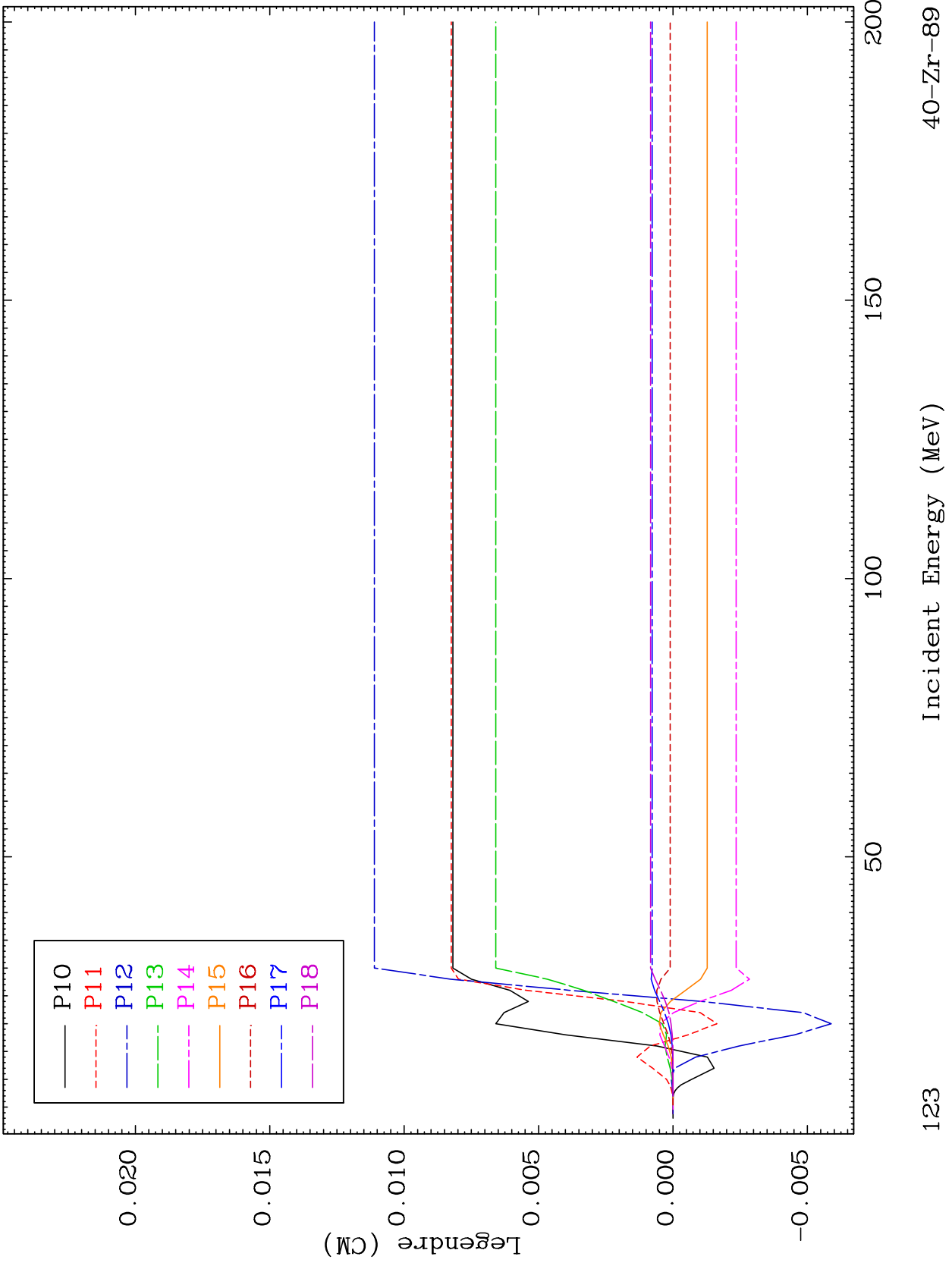
Incident Energy (MeV)

40-Zr-89

MAT 4022

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

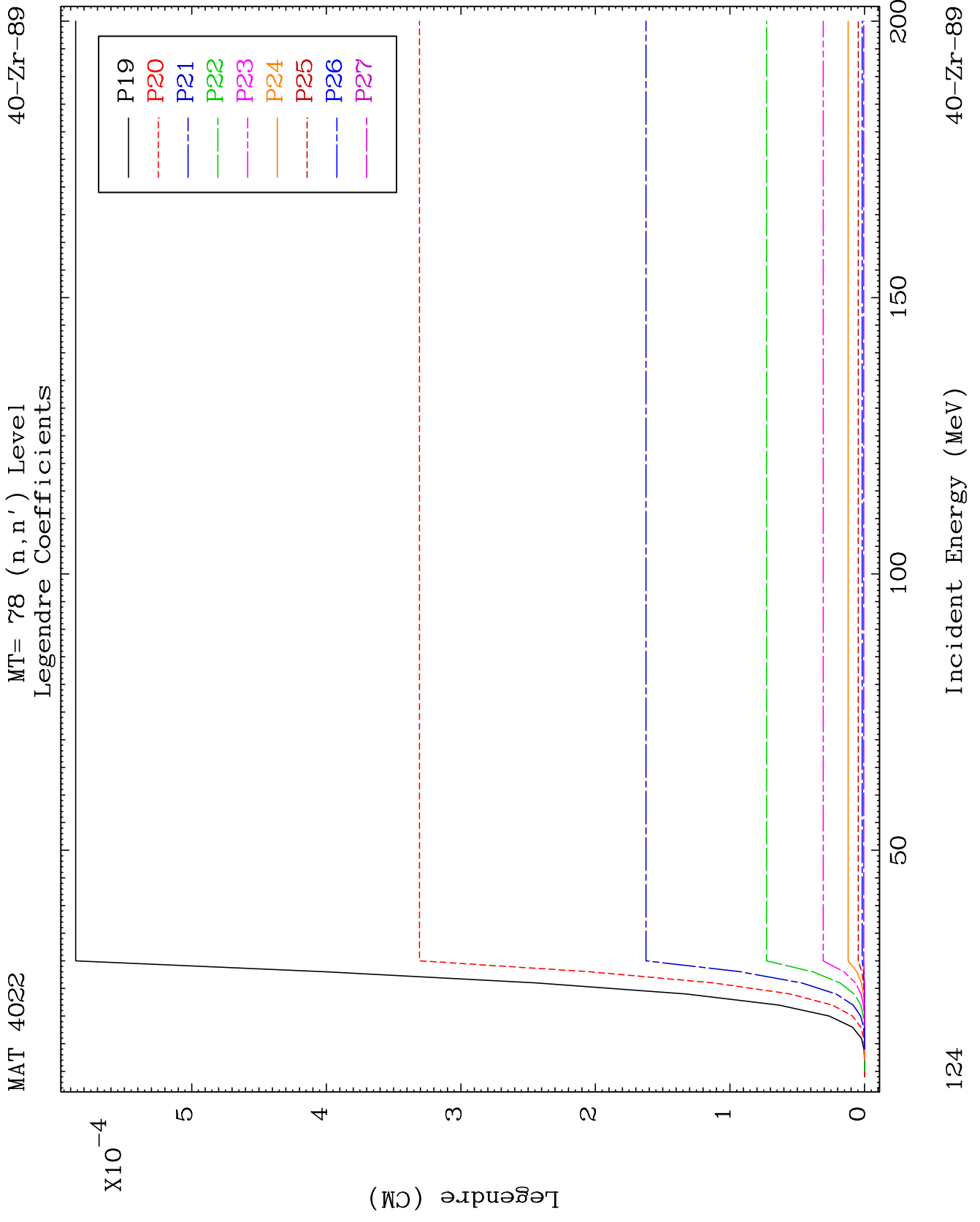
40-Zr-89



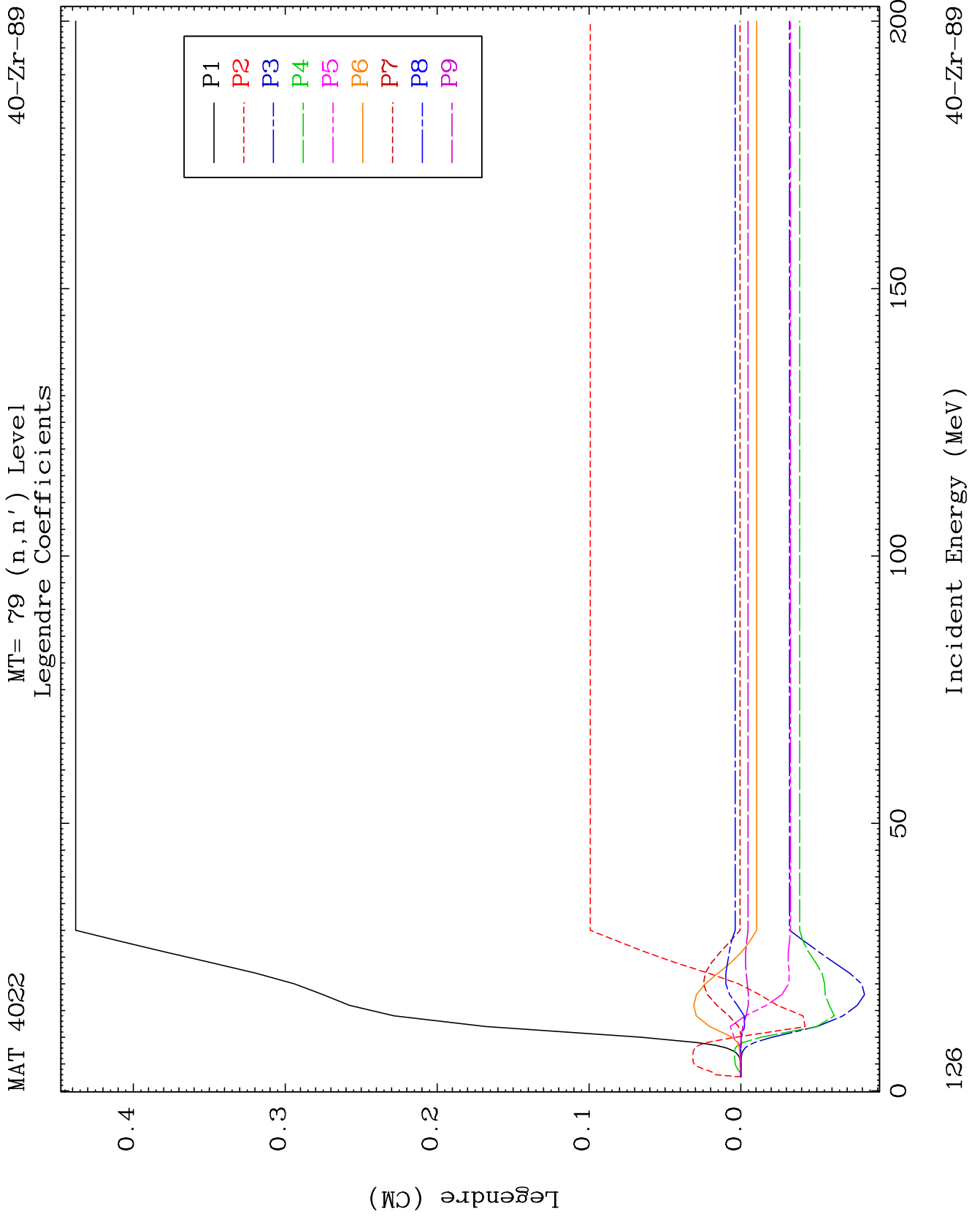
123

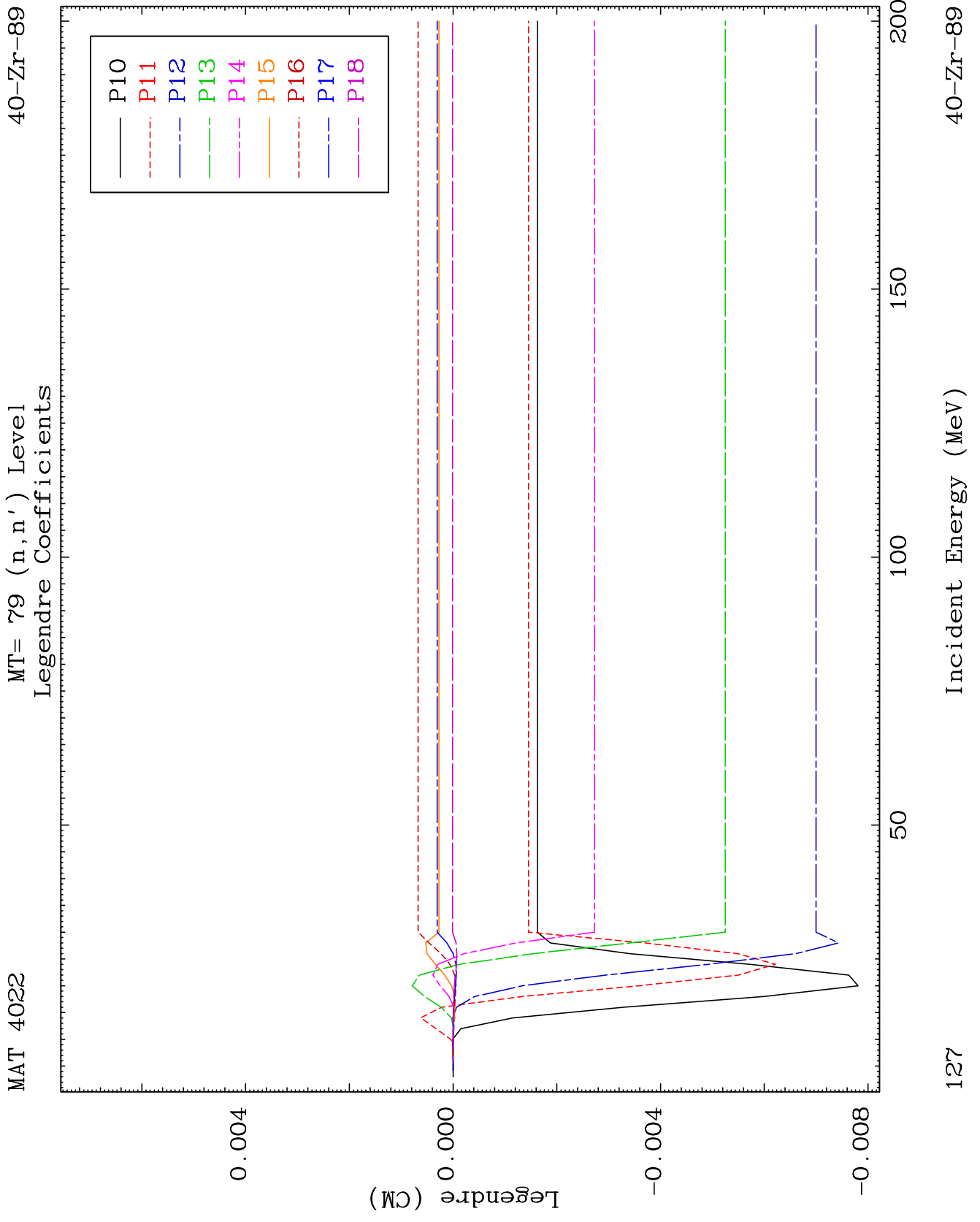
Incident Energy (MeV)

40-Zr-89

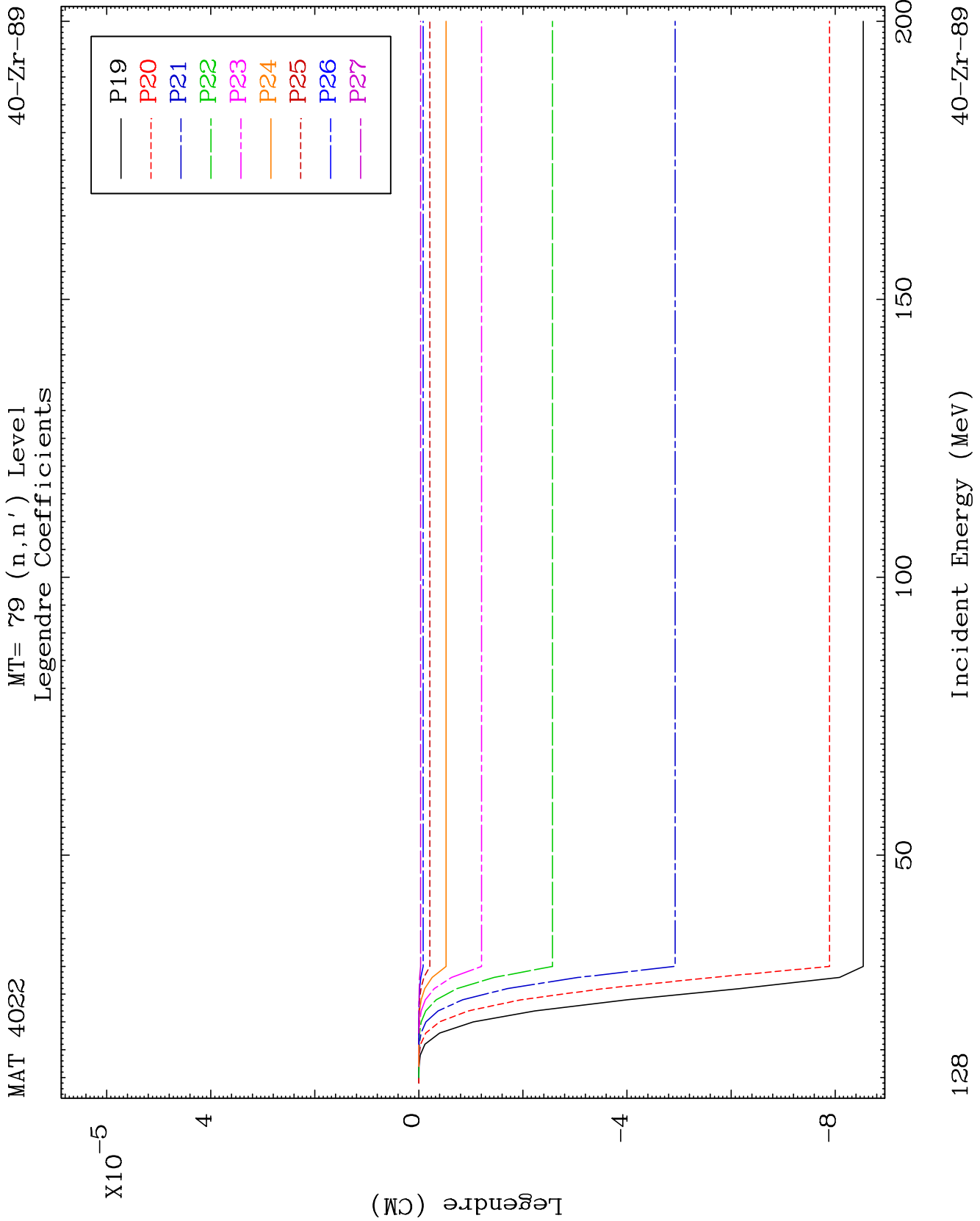


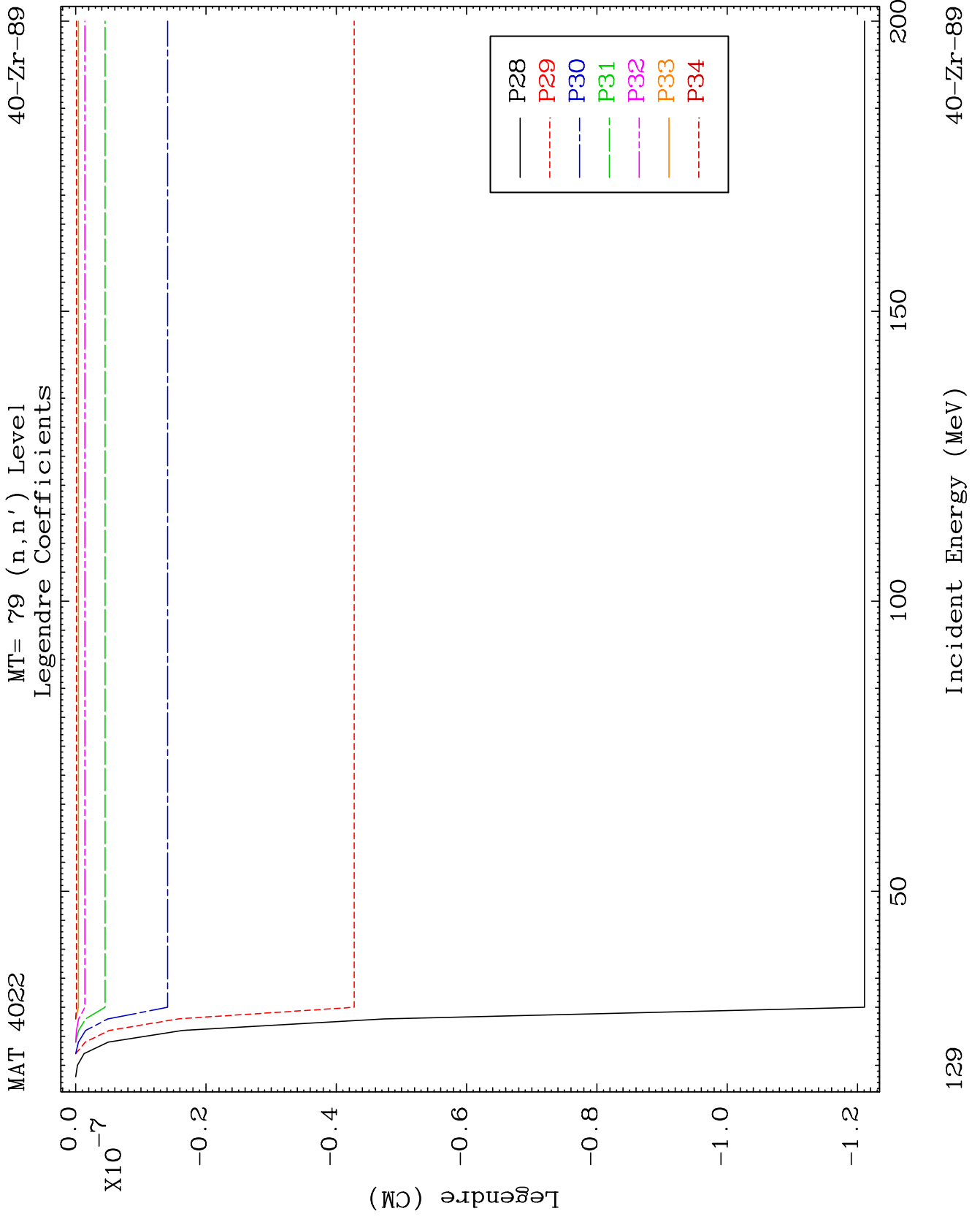


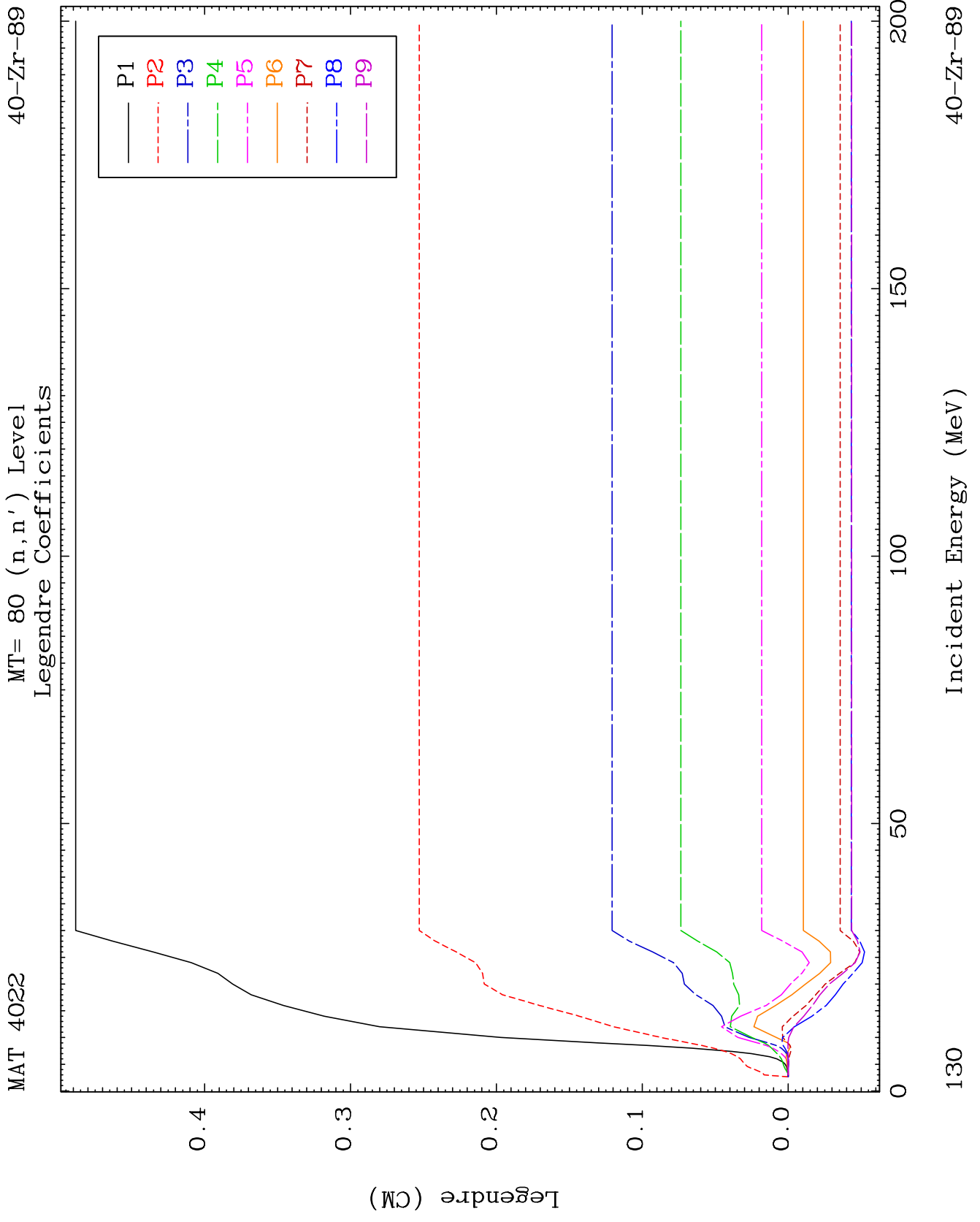


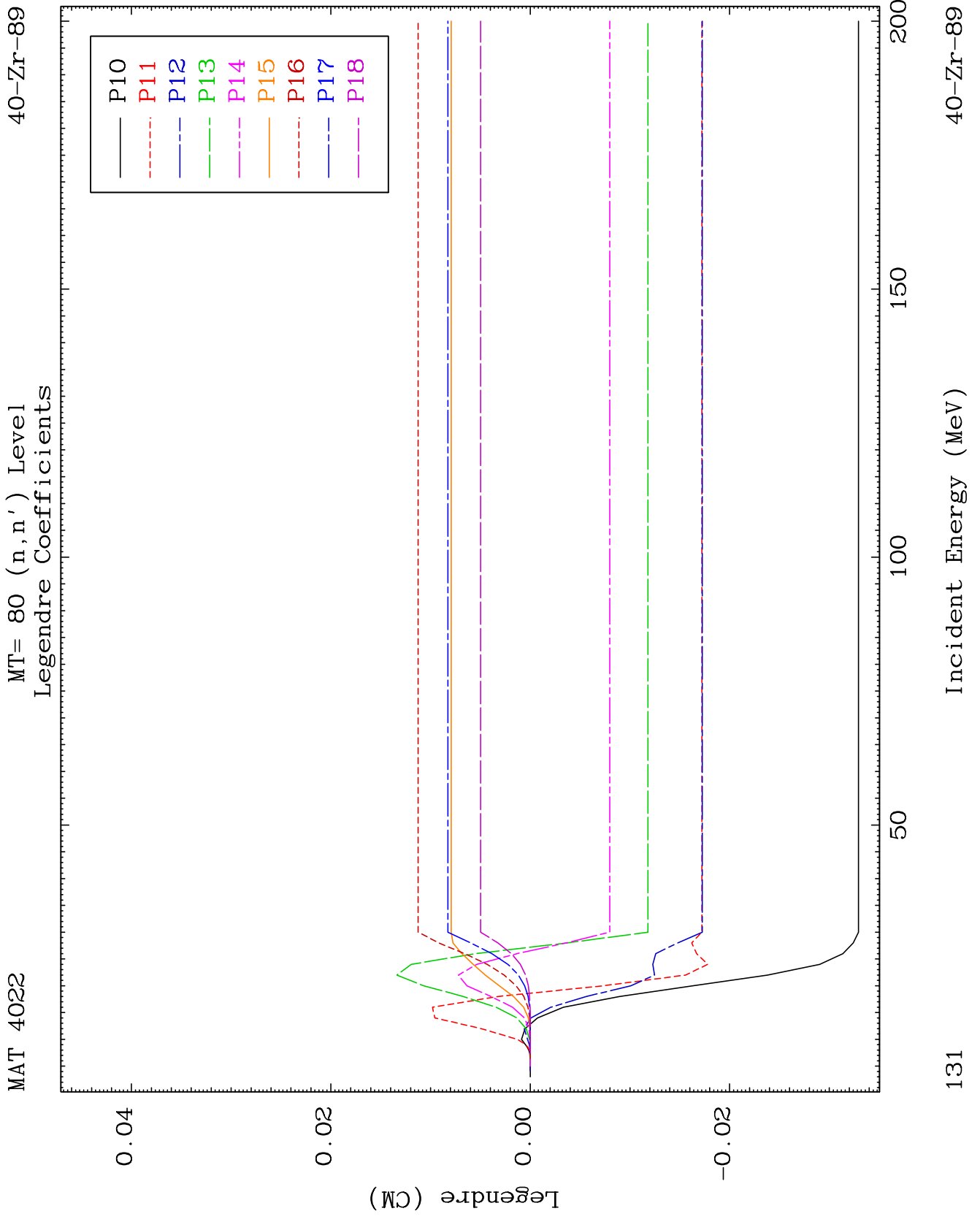


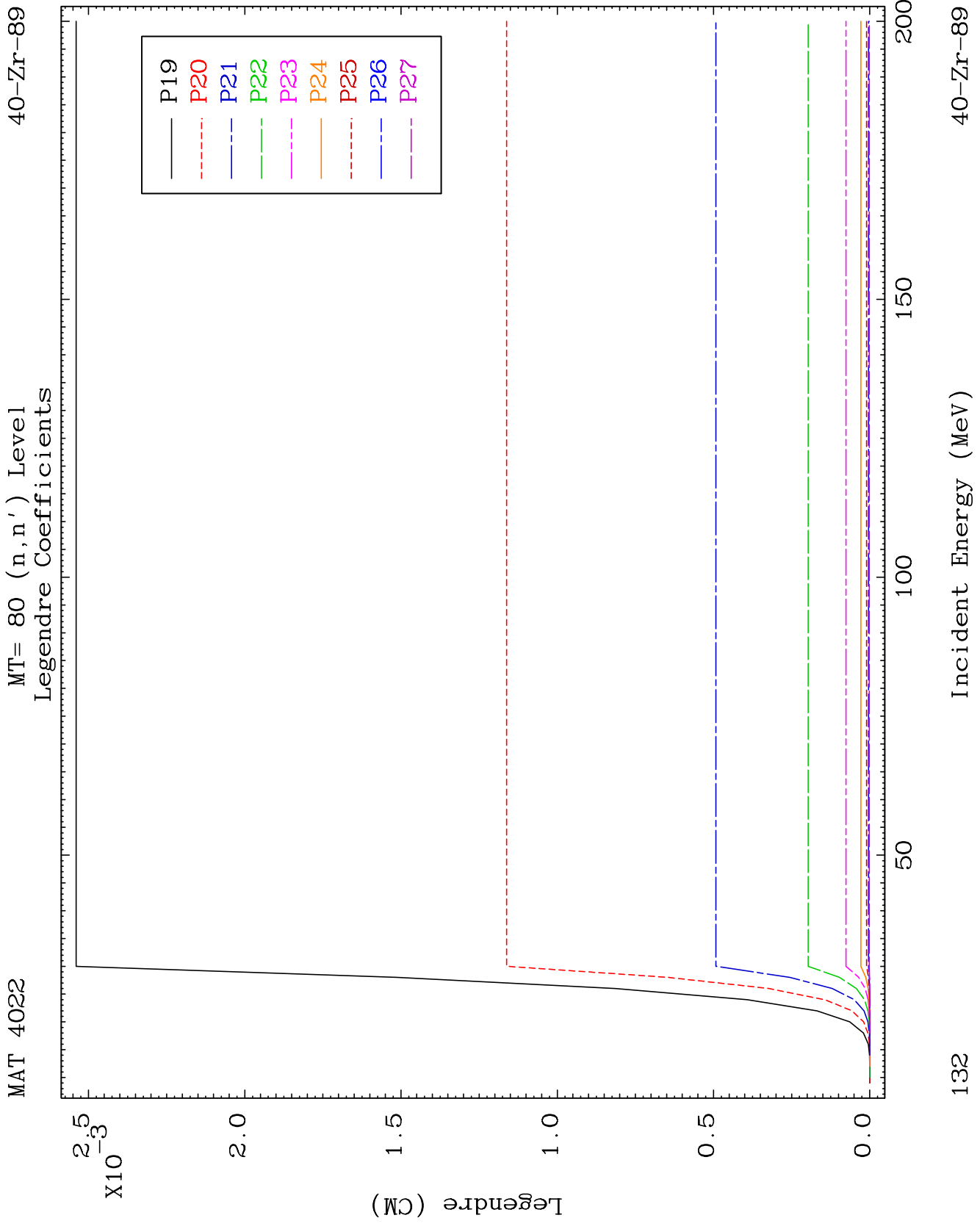


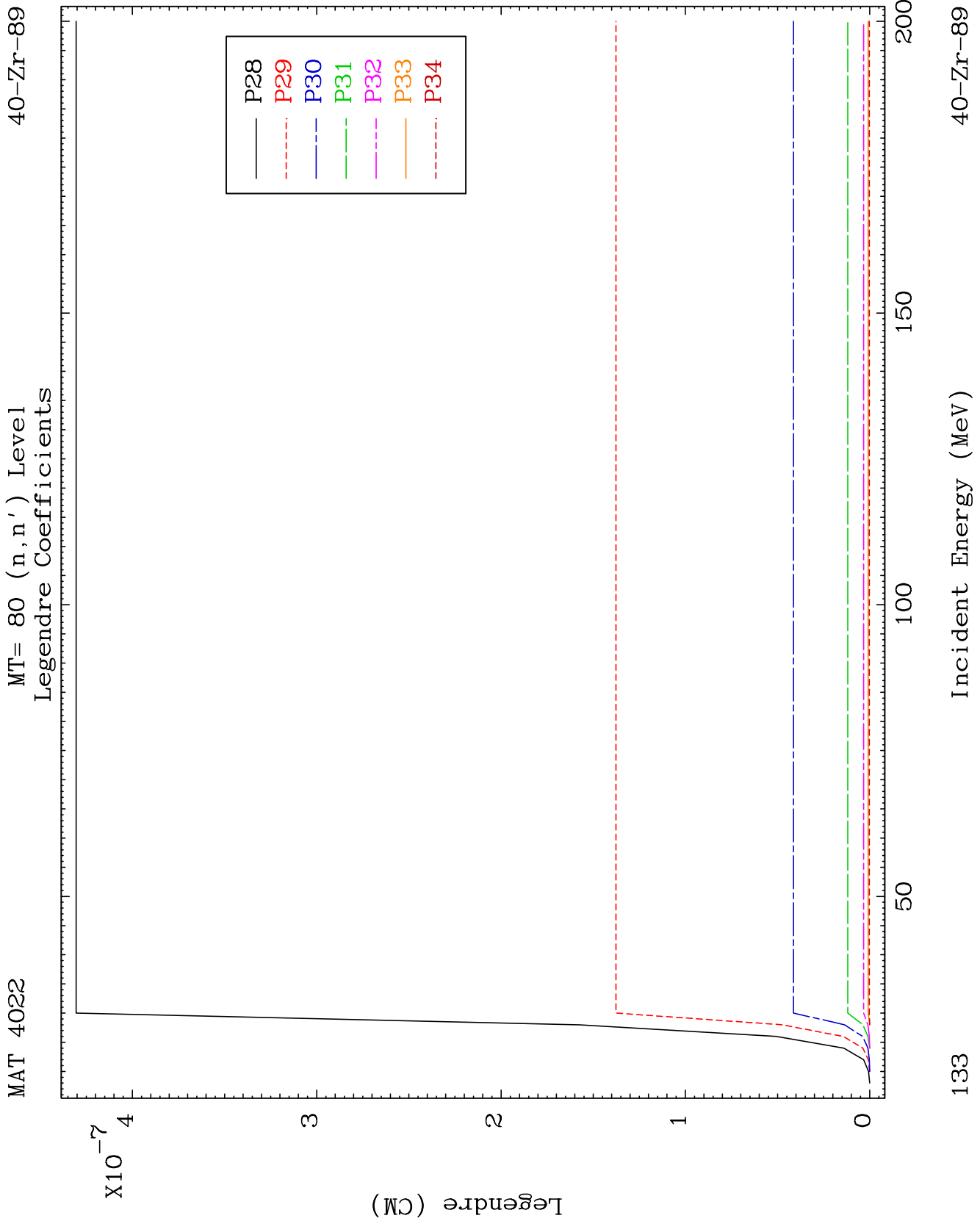








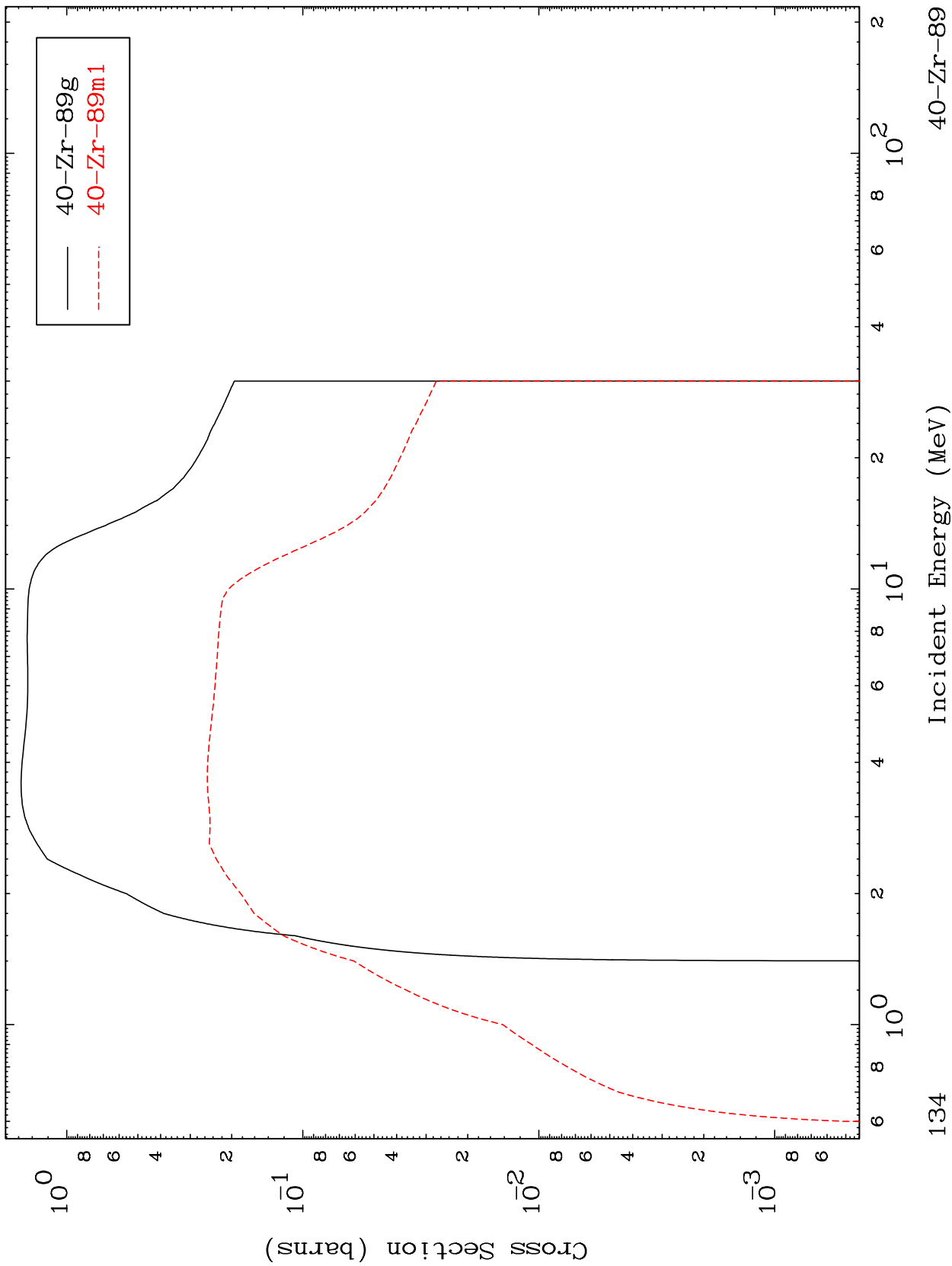




MAT 4022

40-Zr-89

Inelastic  
Radionuclide Production Cross Section



— 40-Zr-89g  
- - - 40-Zr-89m1

134

Incident Energy (MeV)

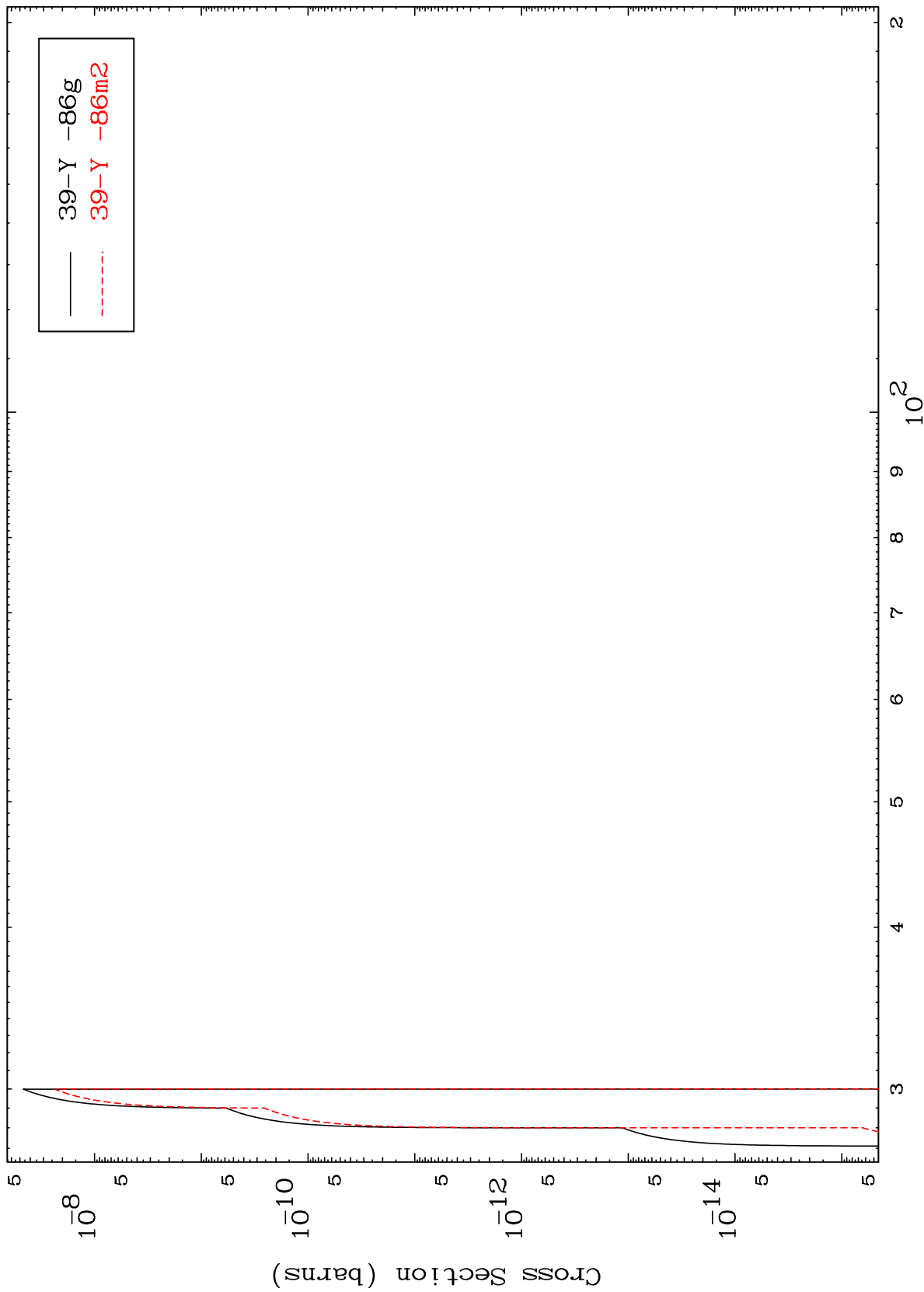
40-Zr-89

MAT 4022

(n,2n) d

40-Zr-89

Radionuclide Production Cross Section



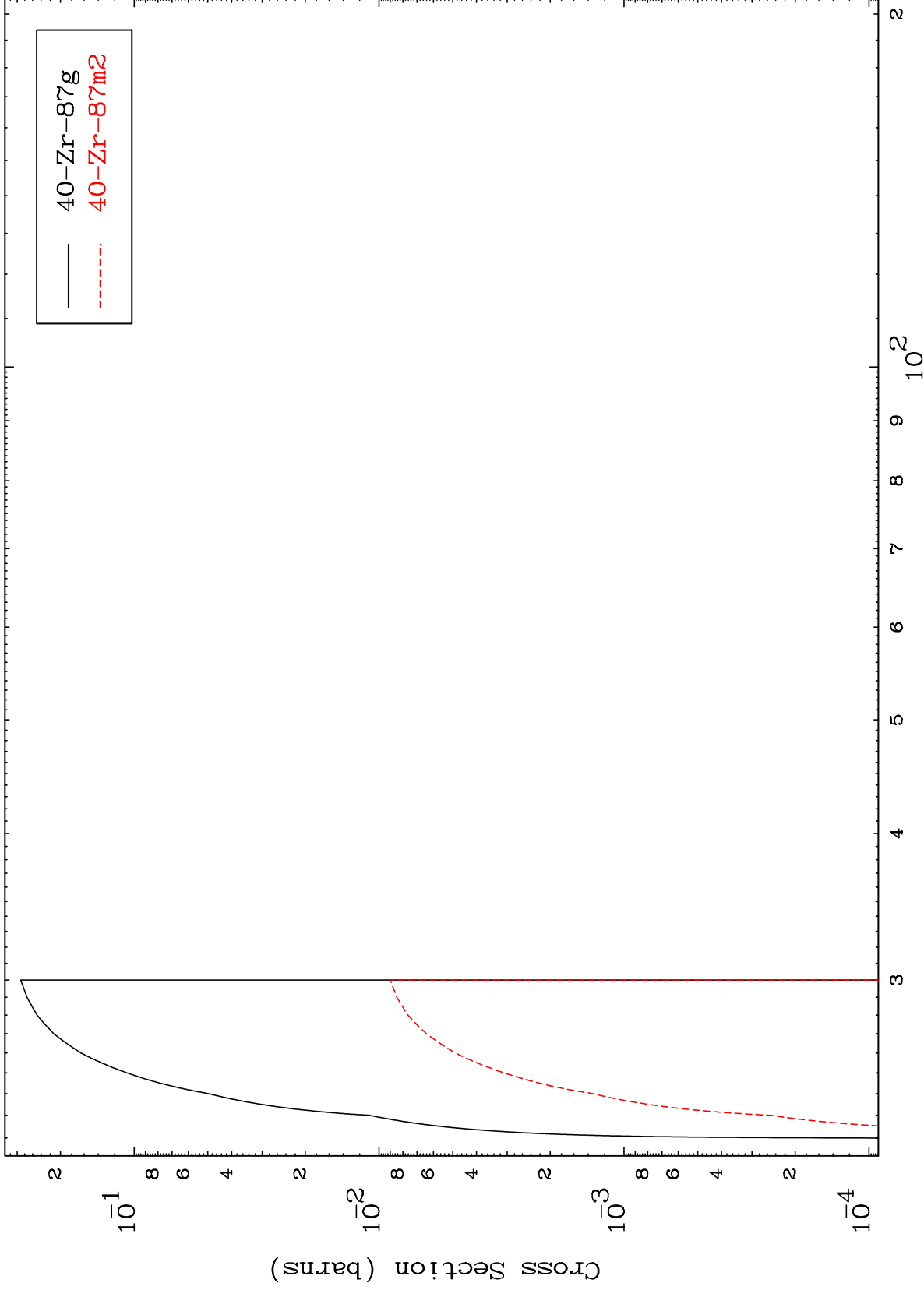
135

Incident Energy (MeV)

40-Zr-89



Radionuclide Production Cross Section

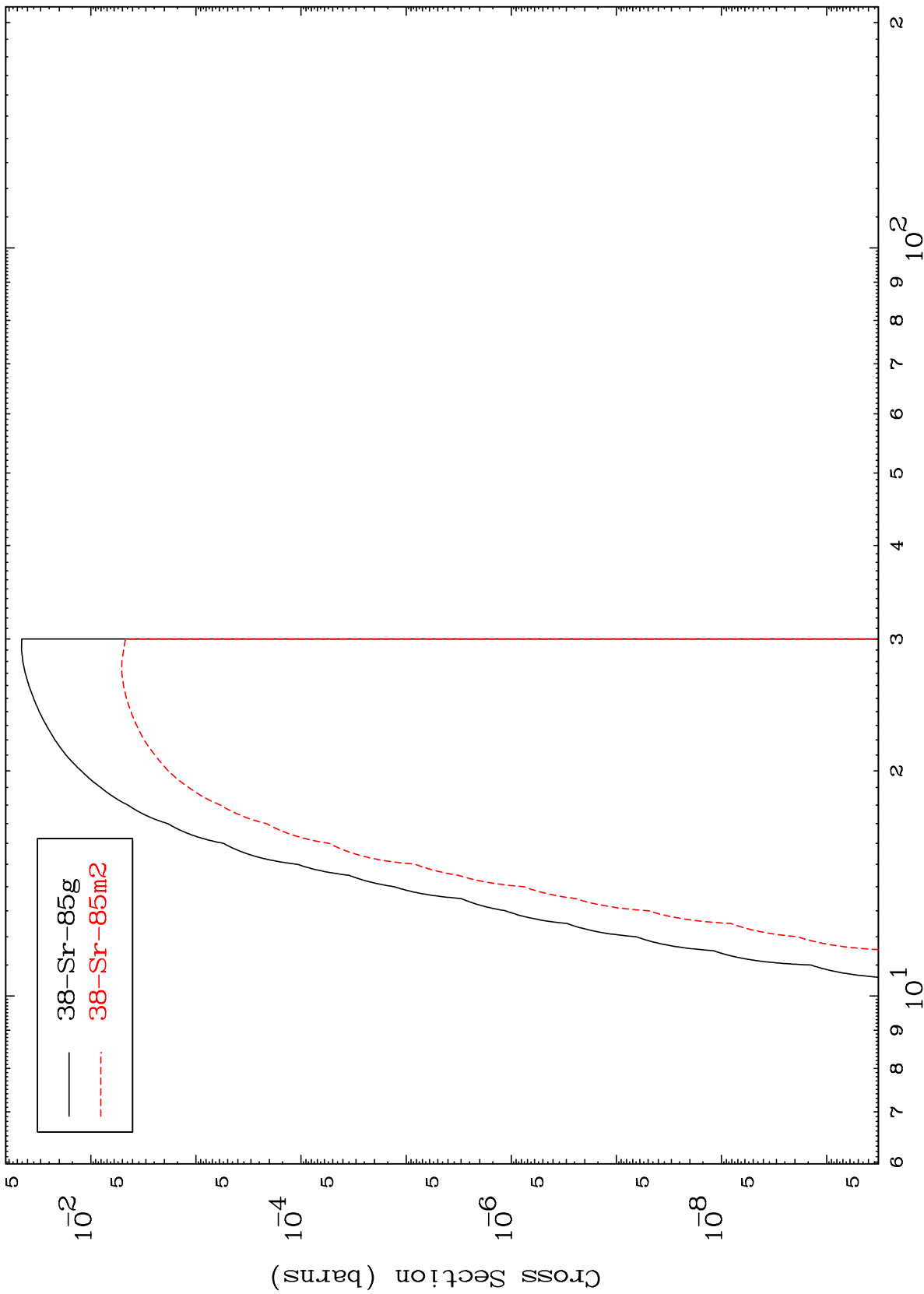


MAT 4022

(n,n')  $\alpha$

40-Zr-89

Radionuclide Production Cross Section



— 38-Sr-85g  
- - - 38-Sr-85m2

Incident Energy (MeV)

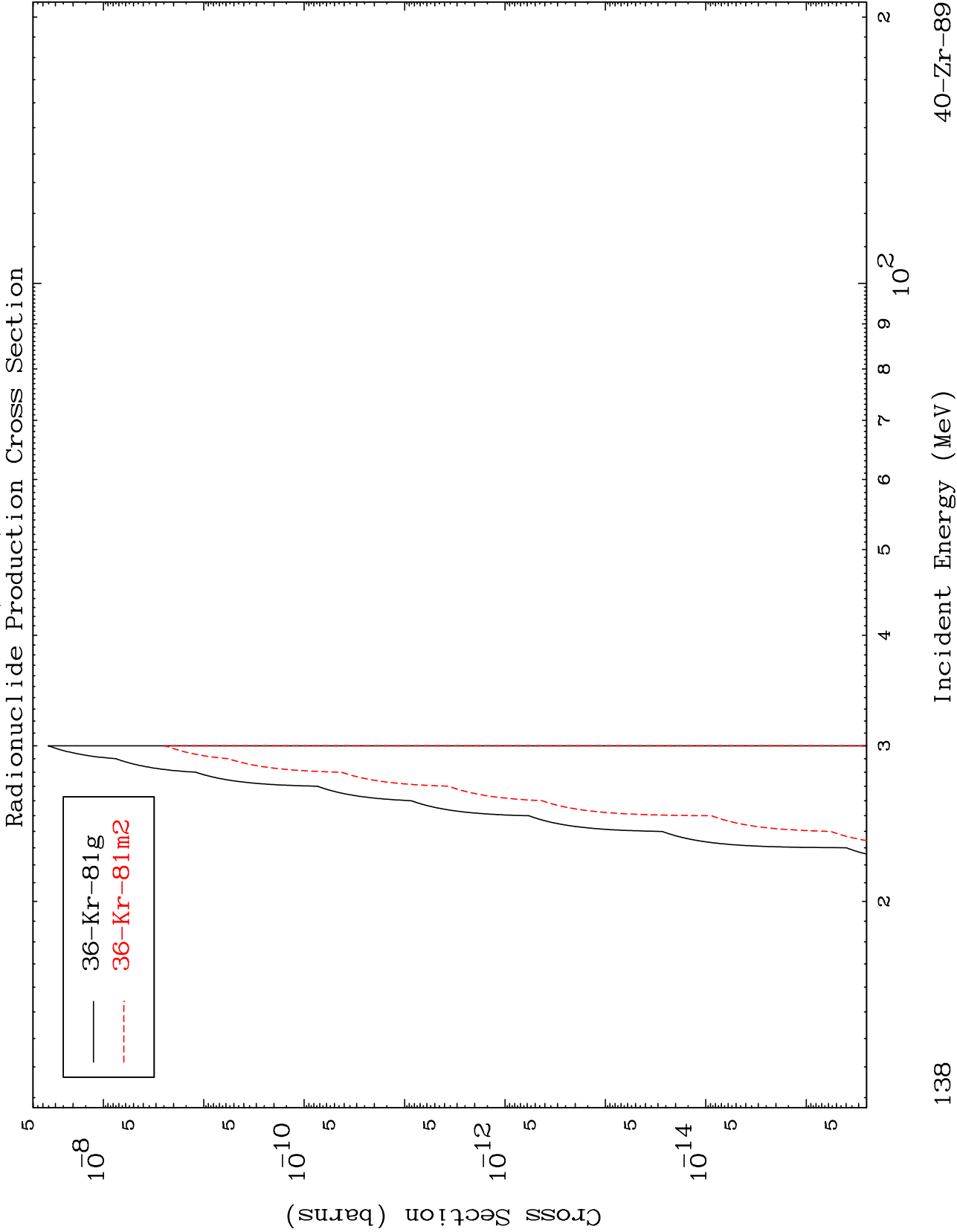
40-Zr-89

137

MAT 4022

(n,n') 2α

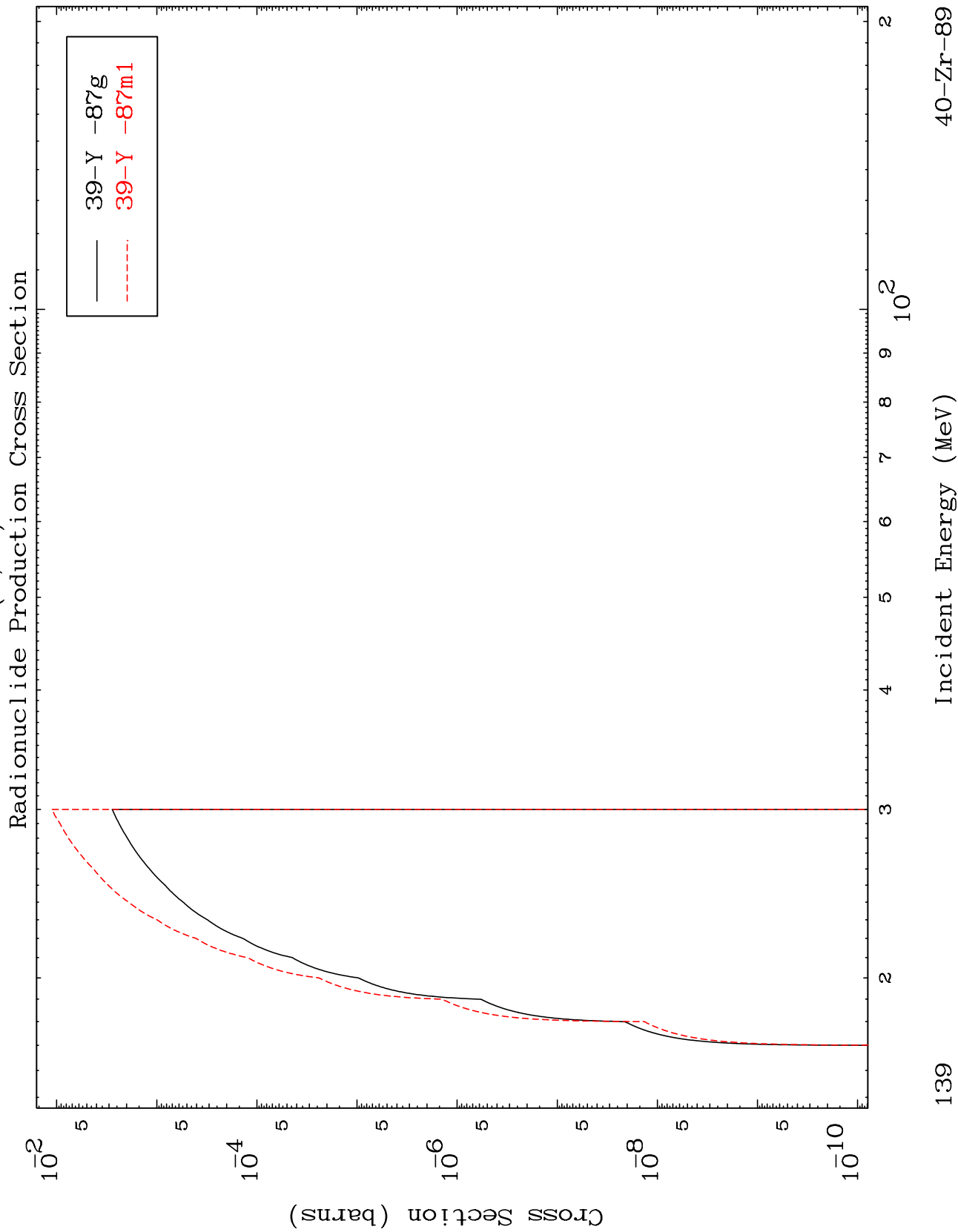
40-Zr-89



MAT 4022

(n,n') d

40-Zr-89



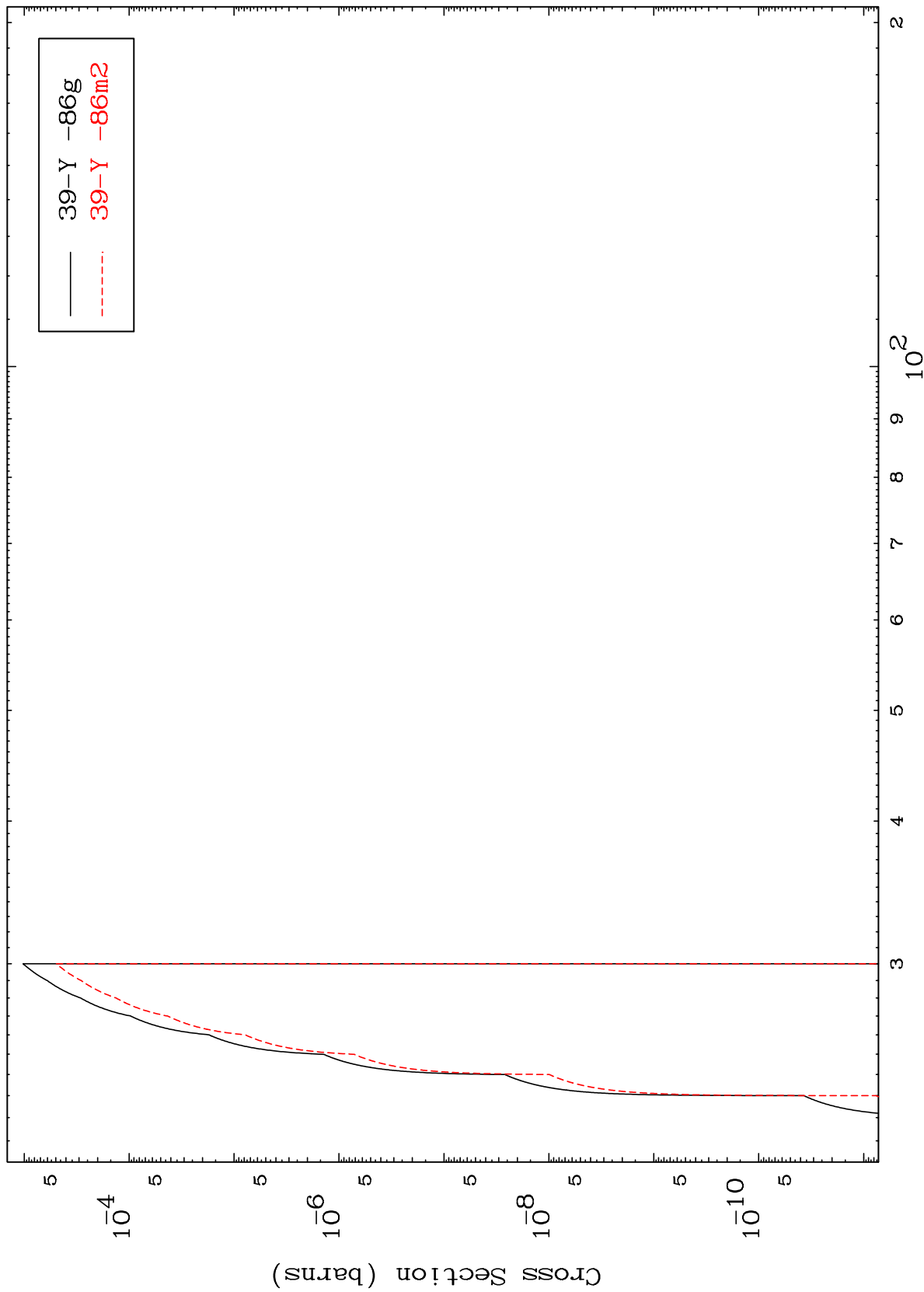
139

MAT 4022

(n,n') t

40-Zr-89

Radionuclide Production Cross Section



140

Incident Energy (MeV)

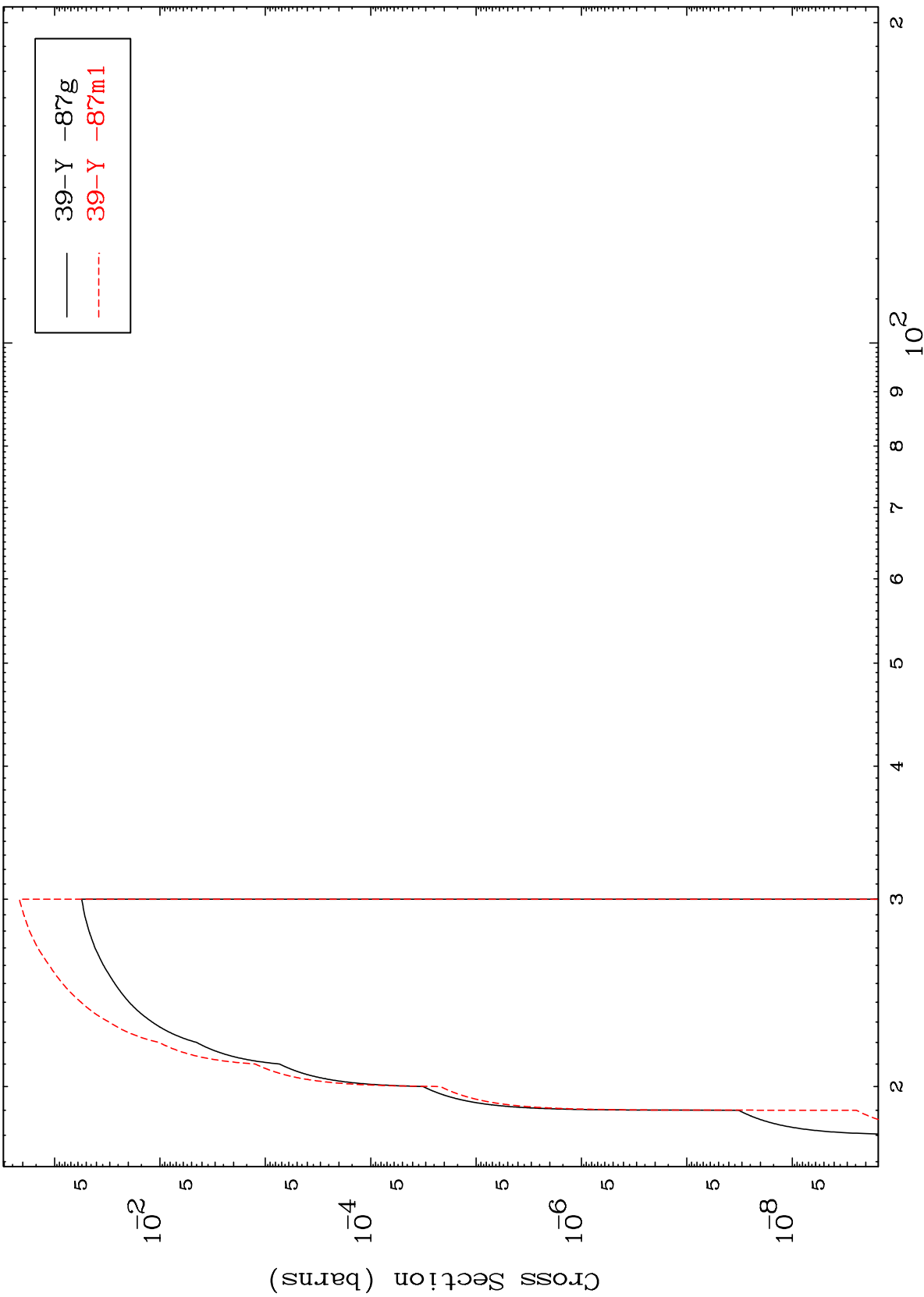
40-Zr-89

MAT 4022

(n,2n) p

40-Zr-89

Radionuclide Production Cross Section



141

Incident Energy (MeV)

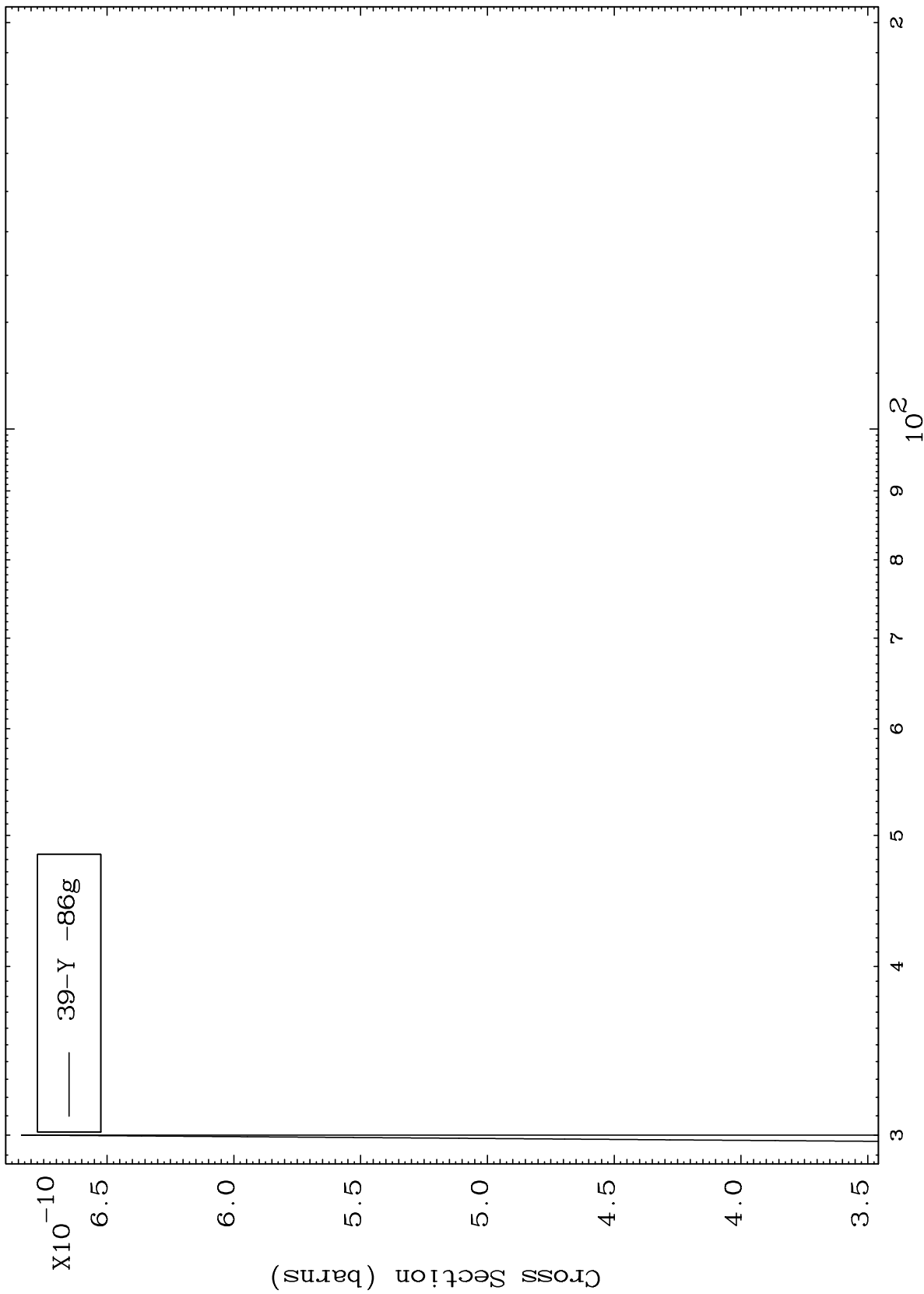
40-Zr-89

MAT 4022

(n,3n) p

40-Zr-89

Radionuclide Production Cross Section



142

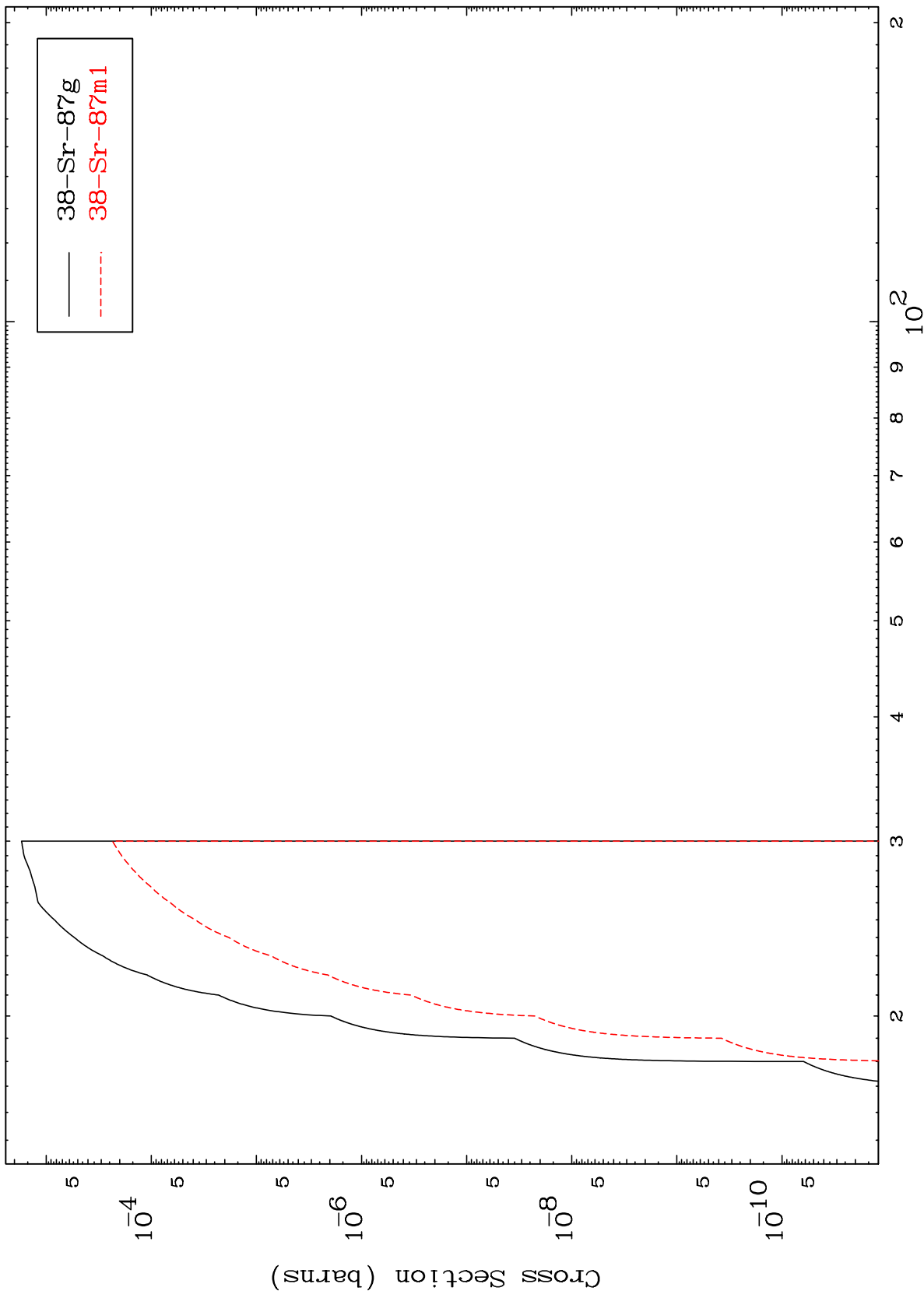
Incident Energy (MeV)

40-Zr-89

MAT 4022

40-Zr-89

(n,2n) p  
Radionuclide Production Cross Section



143

40-Zr-89

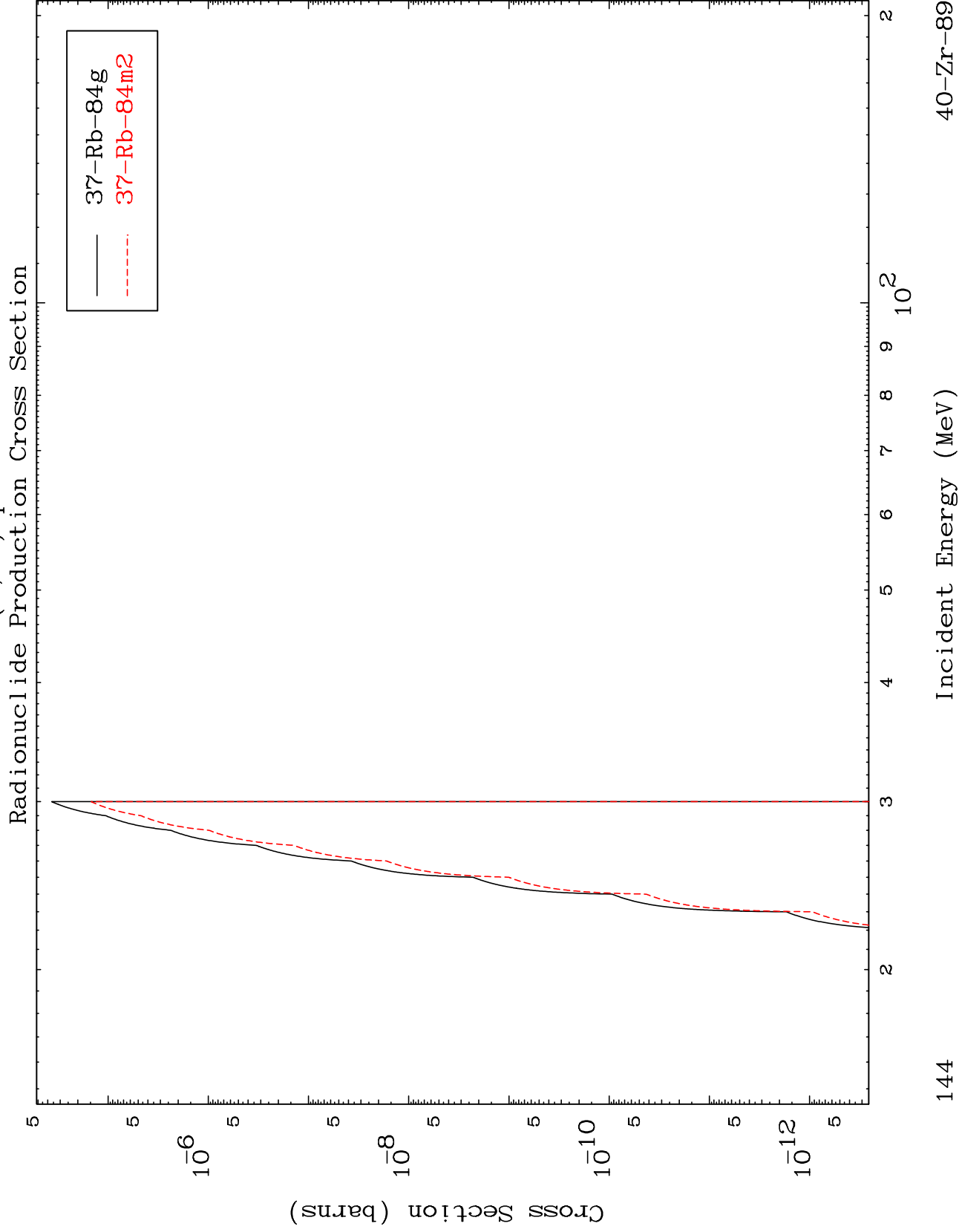
Incident Energy (MeV)



MAT 4022

(n,n') p  $\alpha$

40-Zr-89

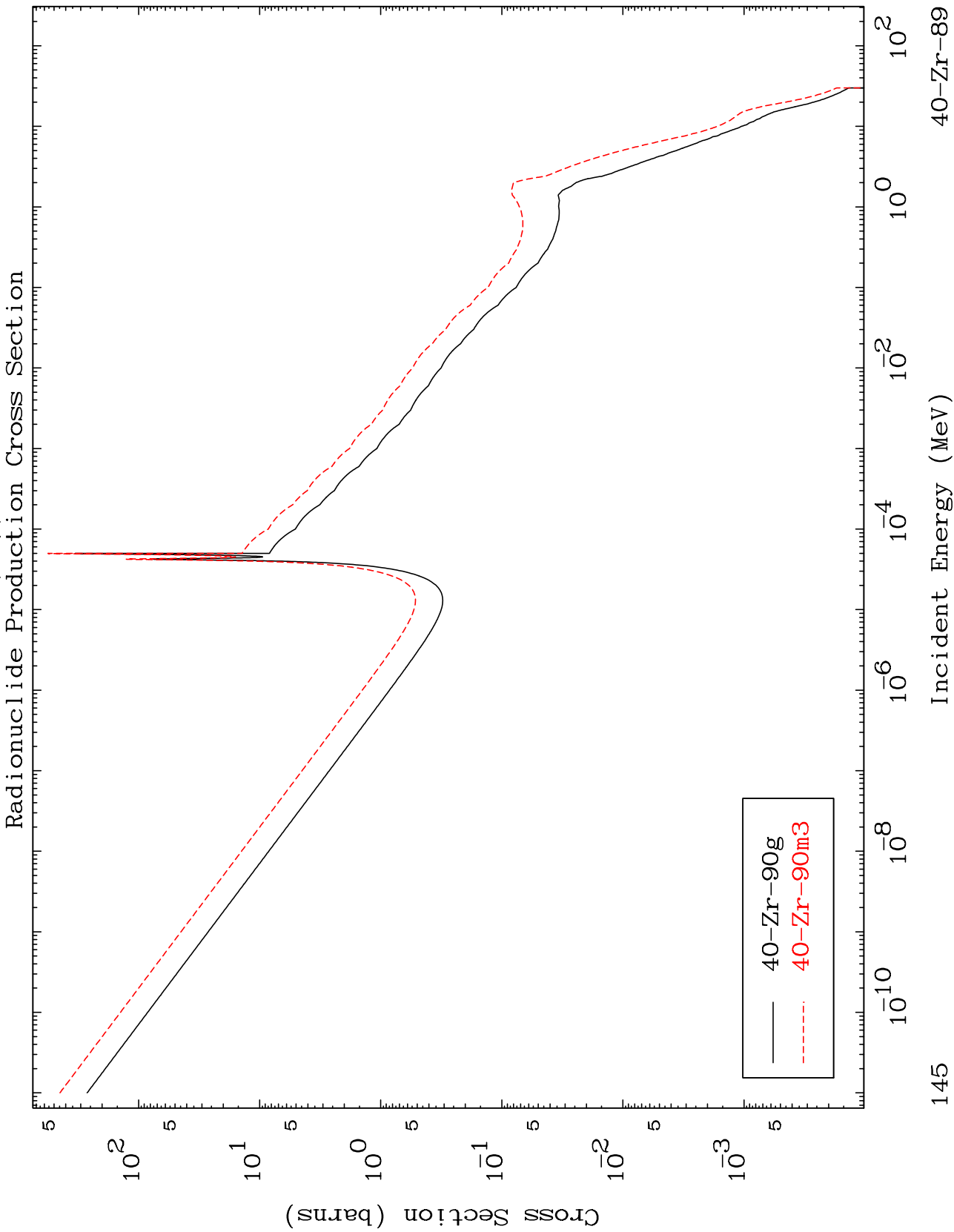


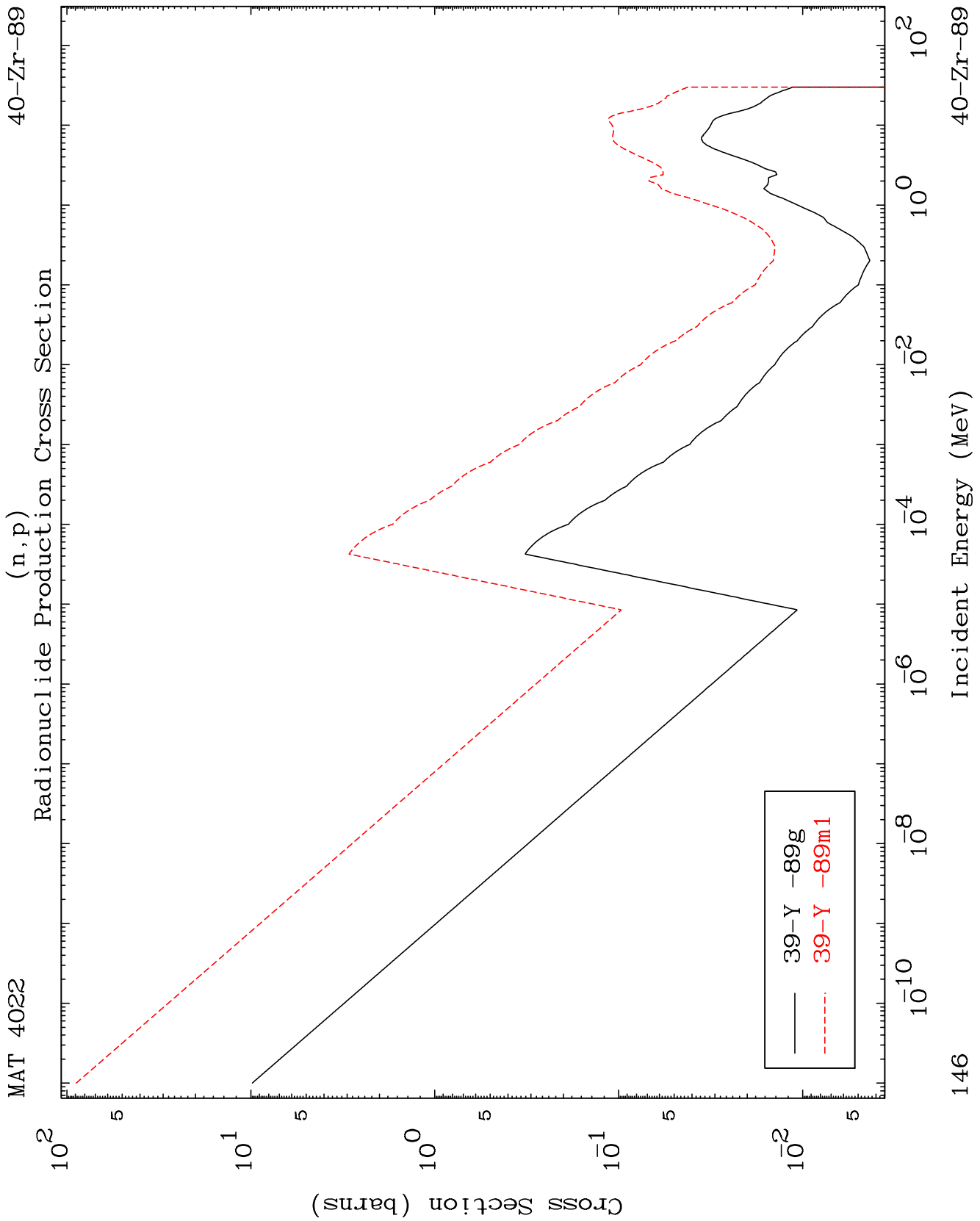
144

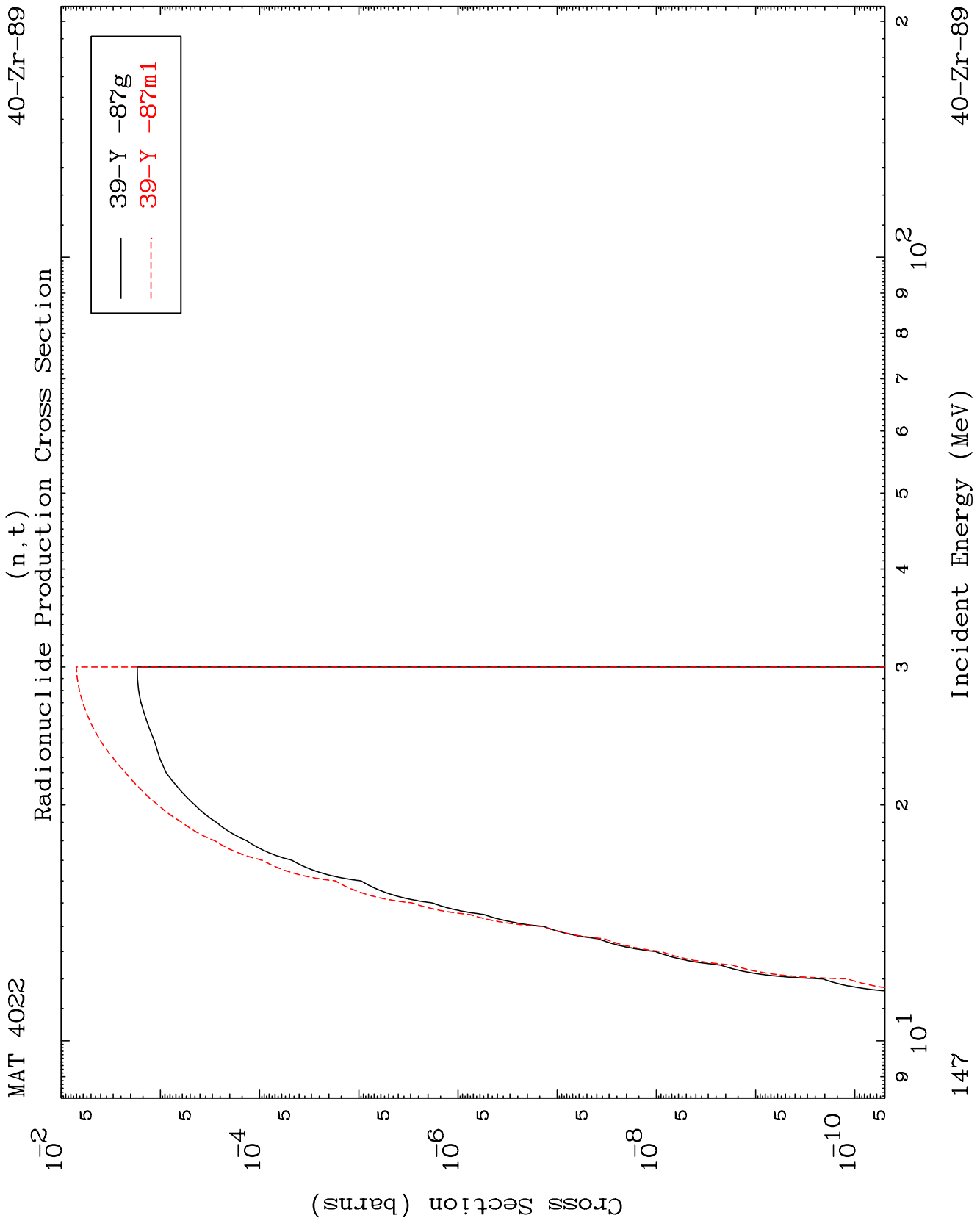
40-Zr-89

MAT 4022

40-Zr-89



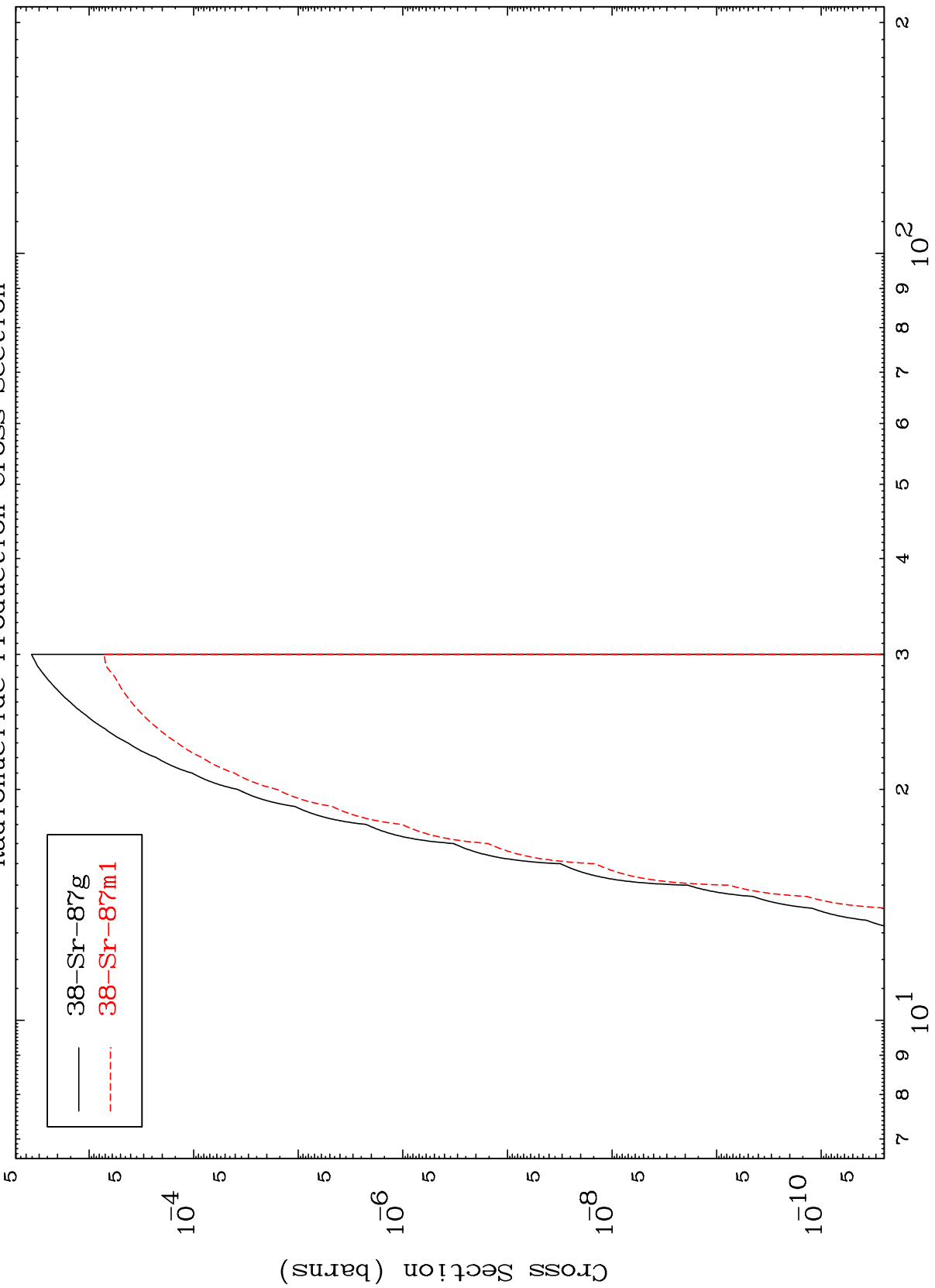




MAT 4022

40-Zr-89

Radionuclide Production Cross Section  
(n,He-3)



38-Sr-87g  
38-Sr-87m1

Incident Energy (MeV)

40-Zr-89

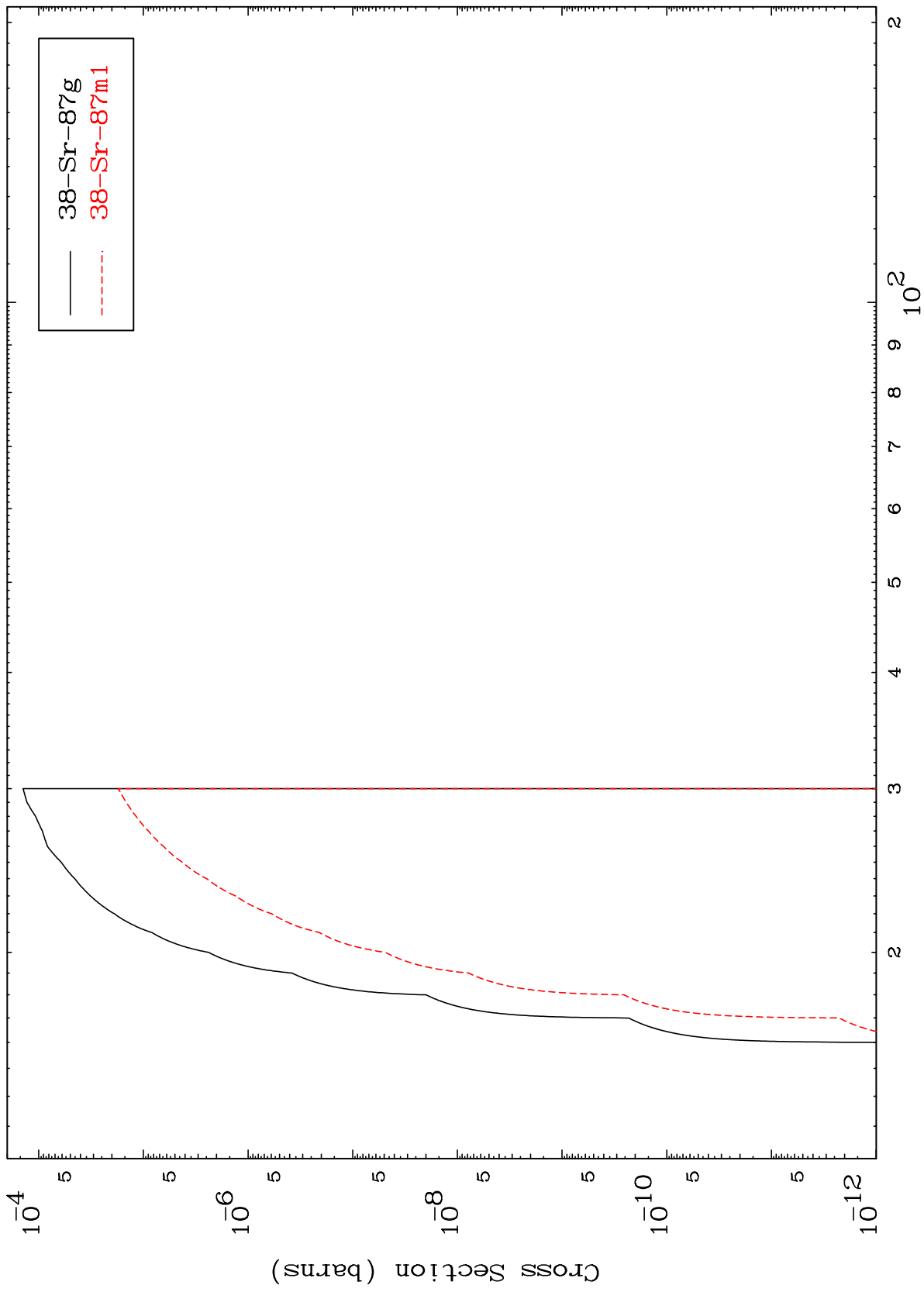
148

MAT 4022

(n,p) d

40-Zr-89

Radionuclide Production Cross Section



149

Incident Energy (MeV)

40-Zr-89

Radionuclide Production Cross Section

