

Program EVALPLOT  
(Version 2018-1)

by

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(Present Contact Information)

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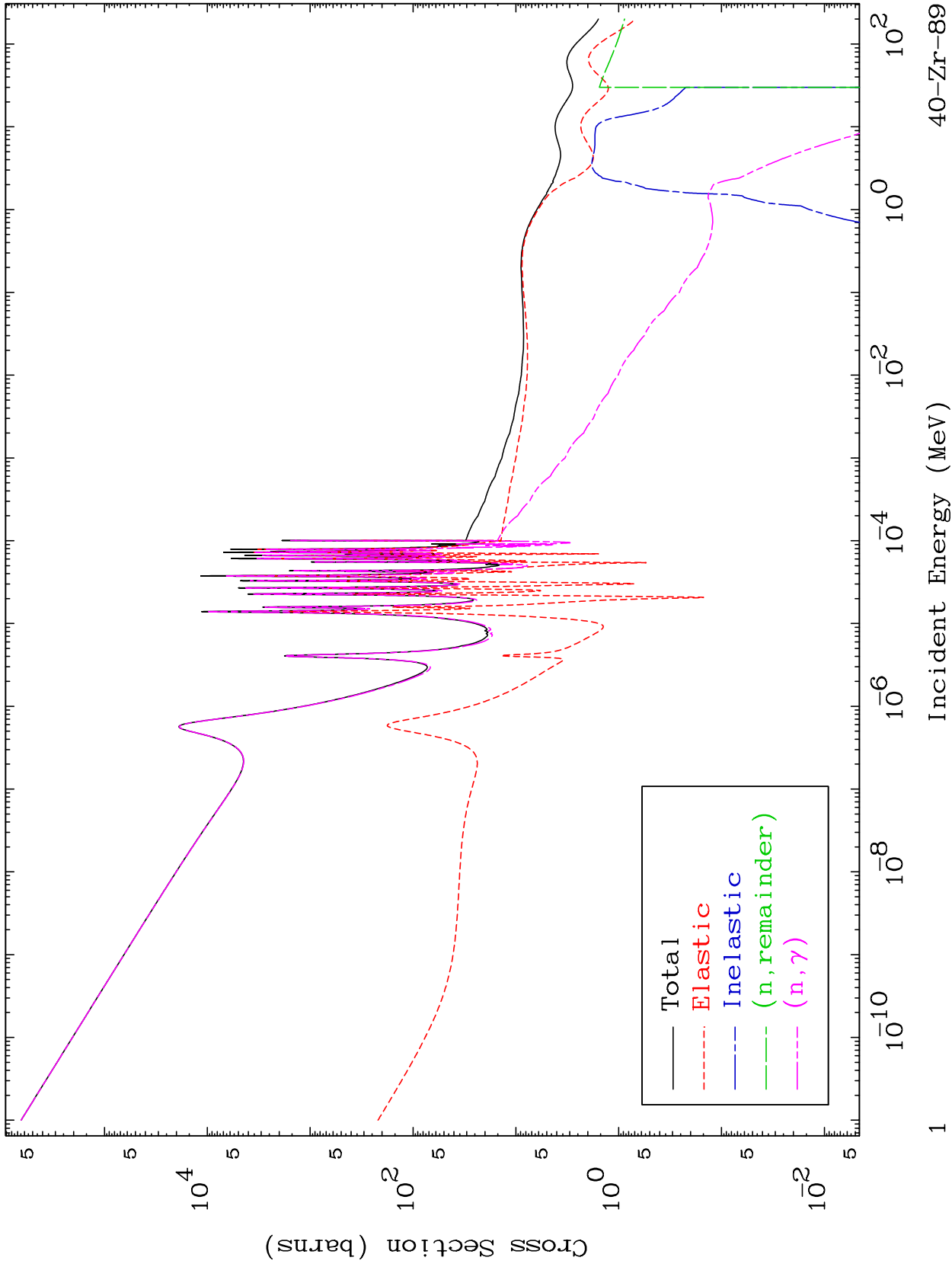
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 4022

Major  
293 Kelvin Cross Sections

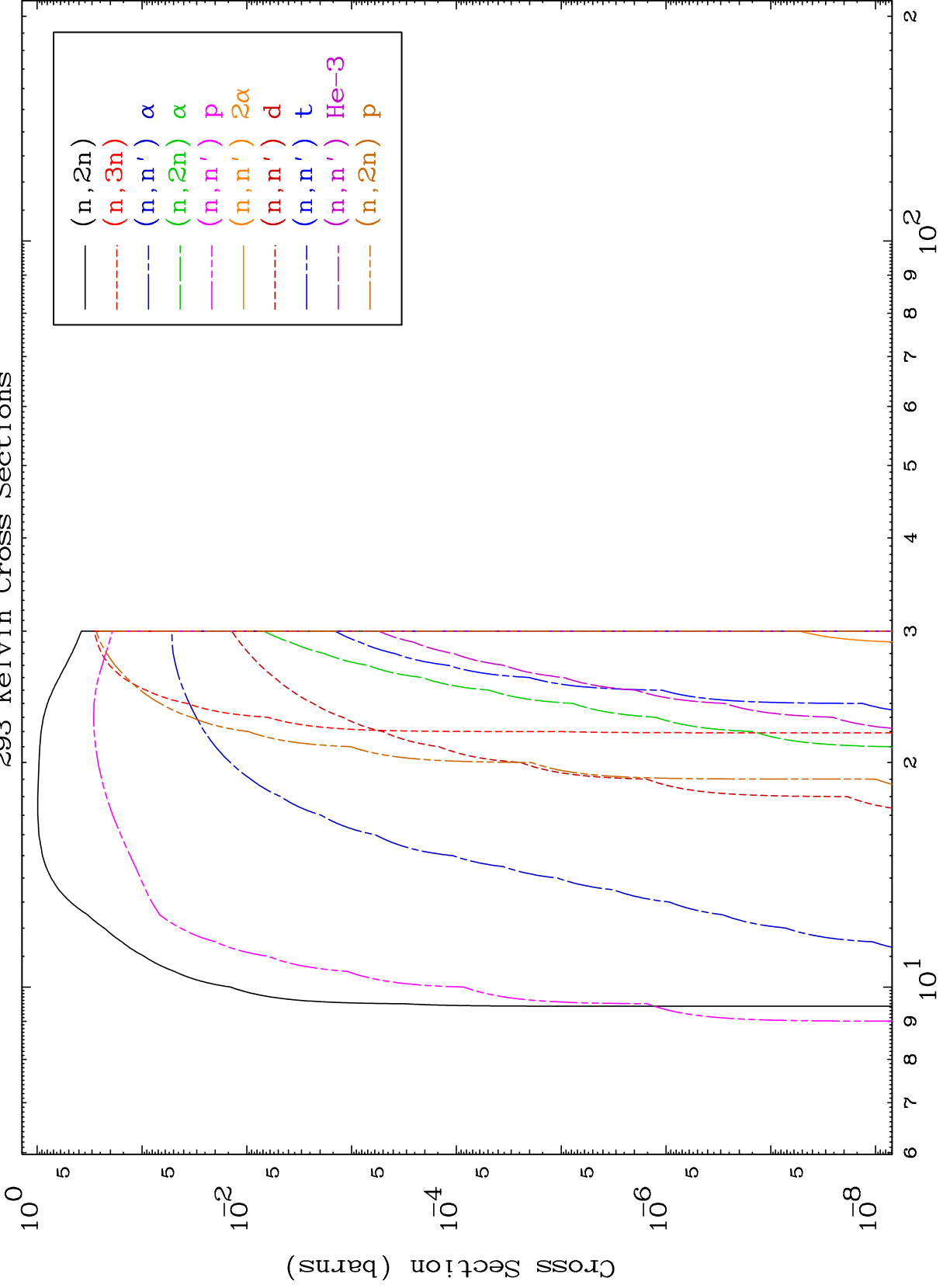
40-Zr-89



MAT 4022

Neutron Production  
293 Kelvin Cross Sections

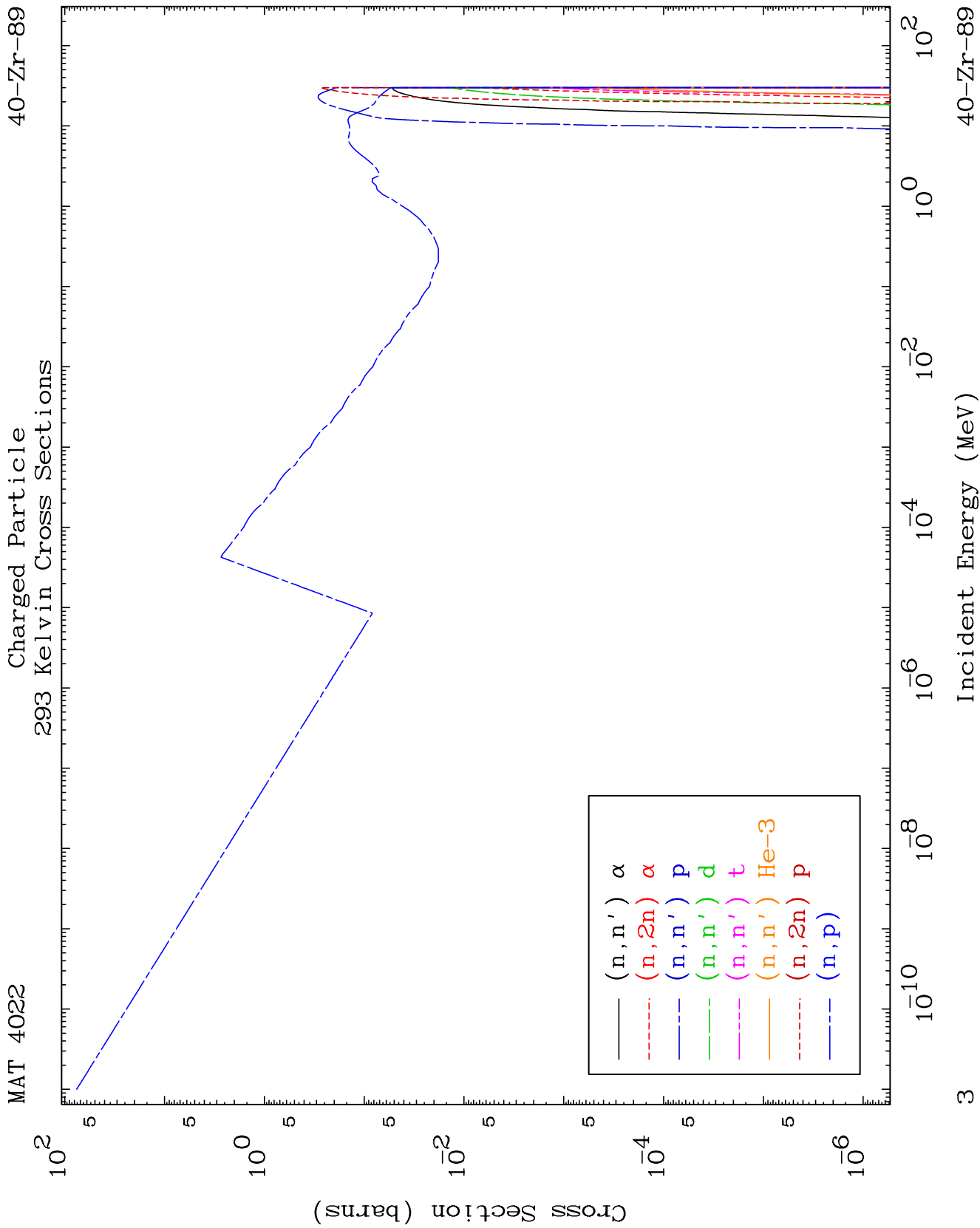
40-Zr-89



2

Incident Energy (MeV)

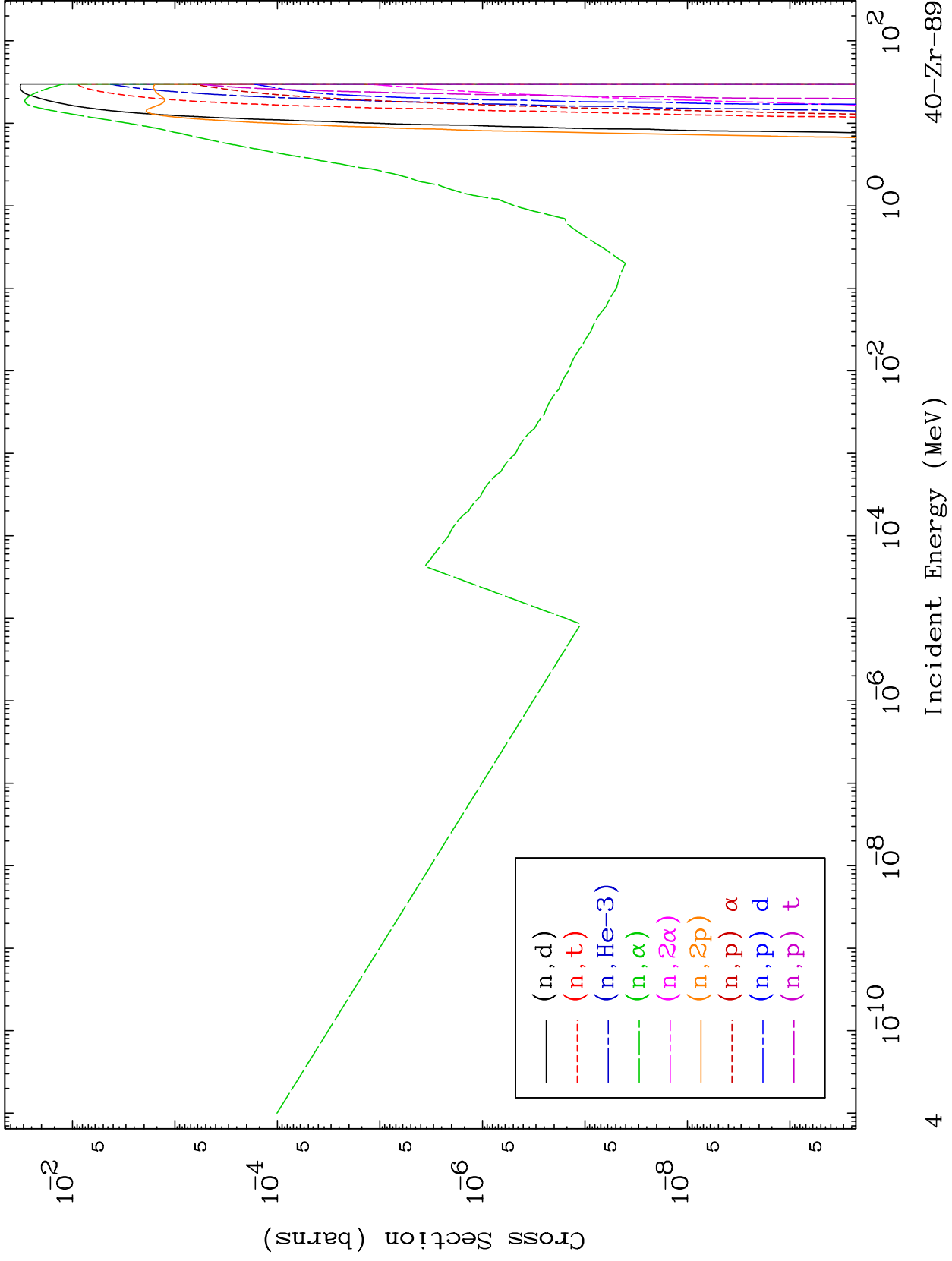
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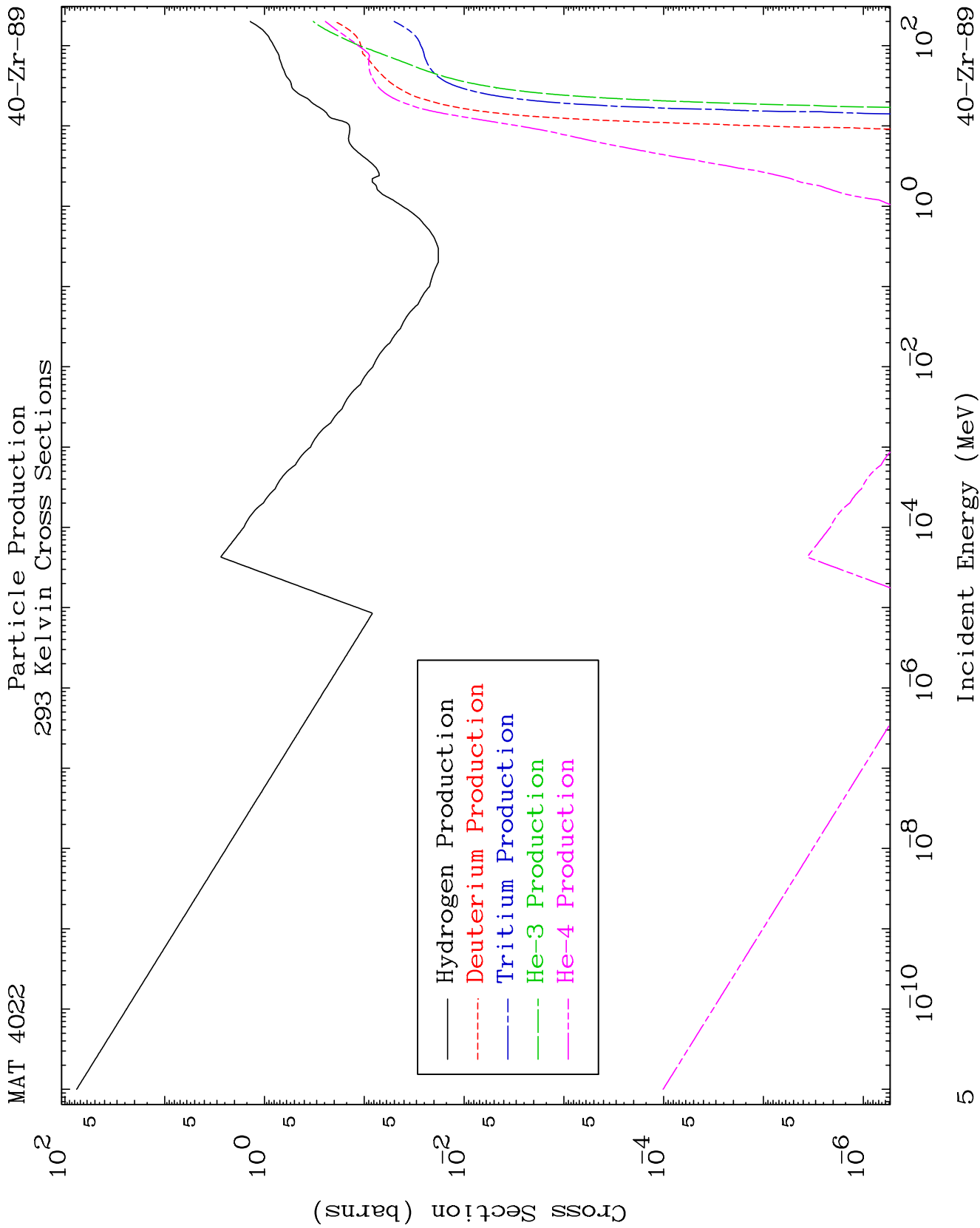


MAT 4022

Charged Particle  
293 Kelvin Cross Sections

40-Zr-89



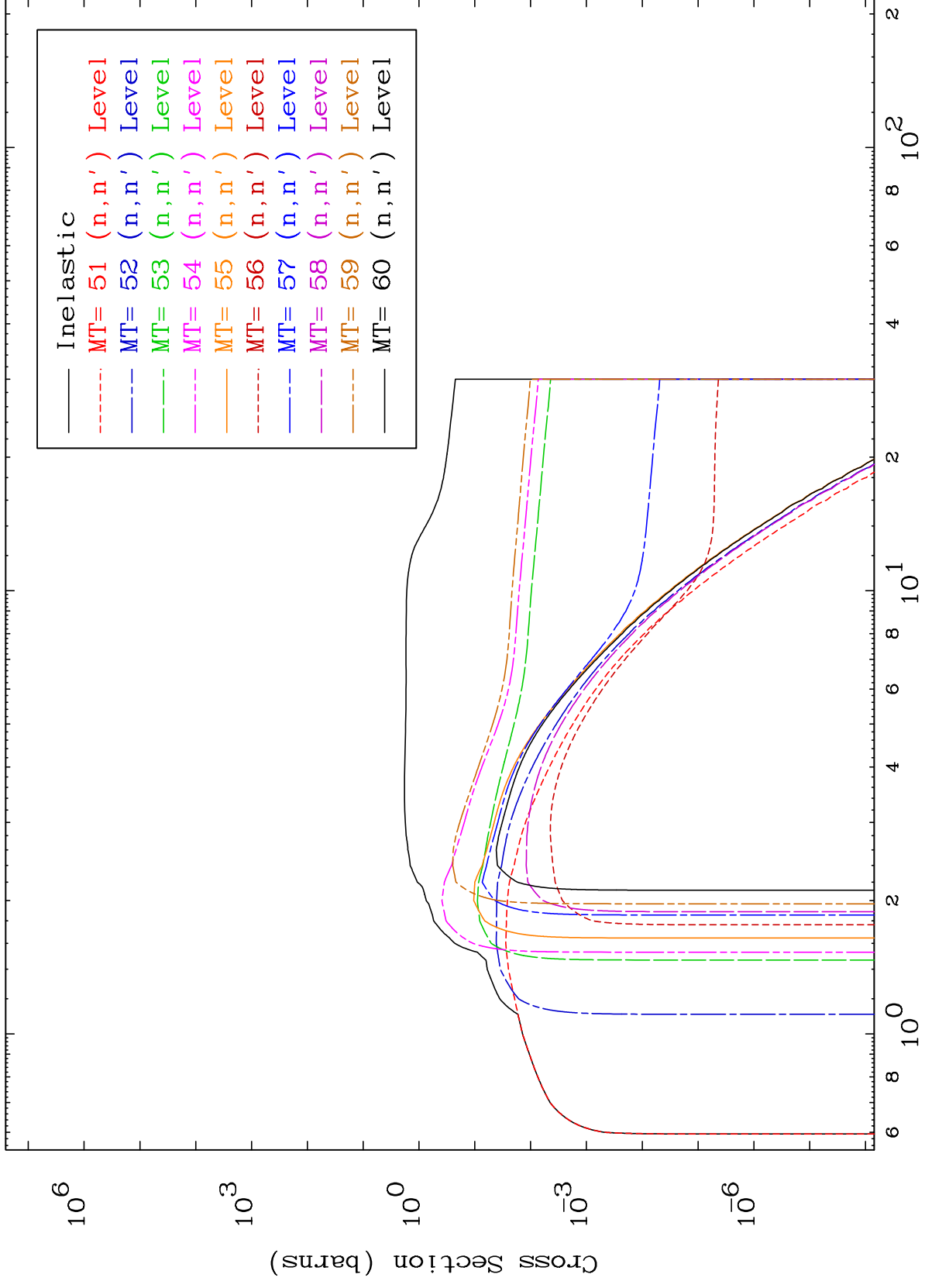


MAT 4022

(n,n') Level

40-Zr-89

293 Kelvin Cross Sections



Incident Energy (MeV)

40-Zr-89

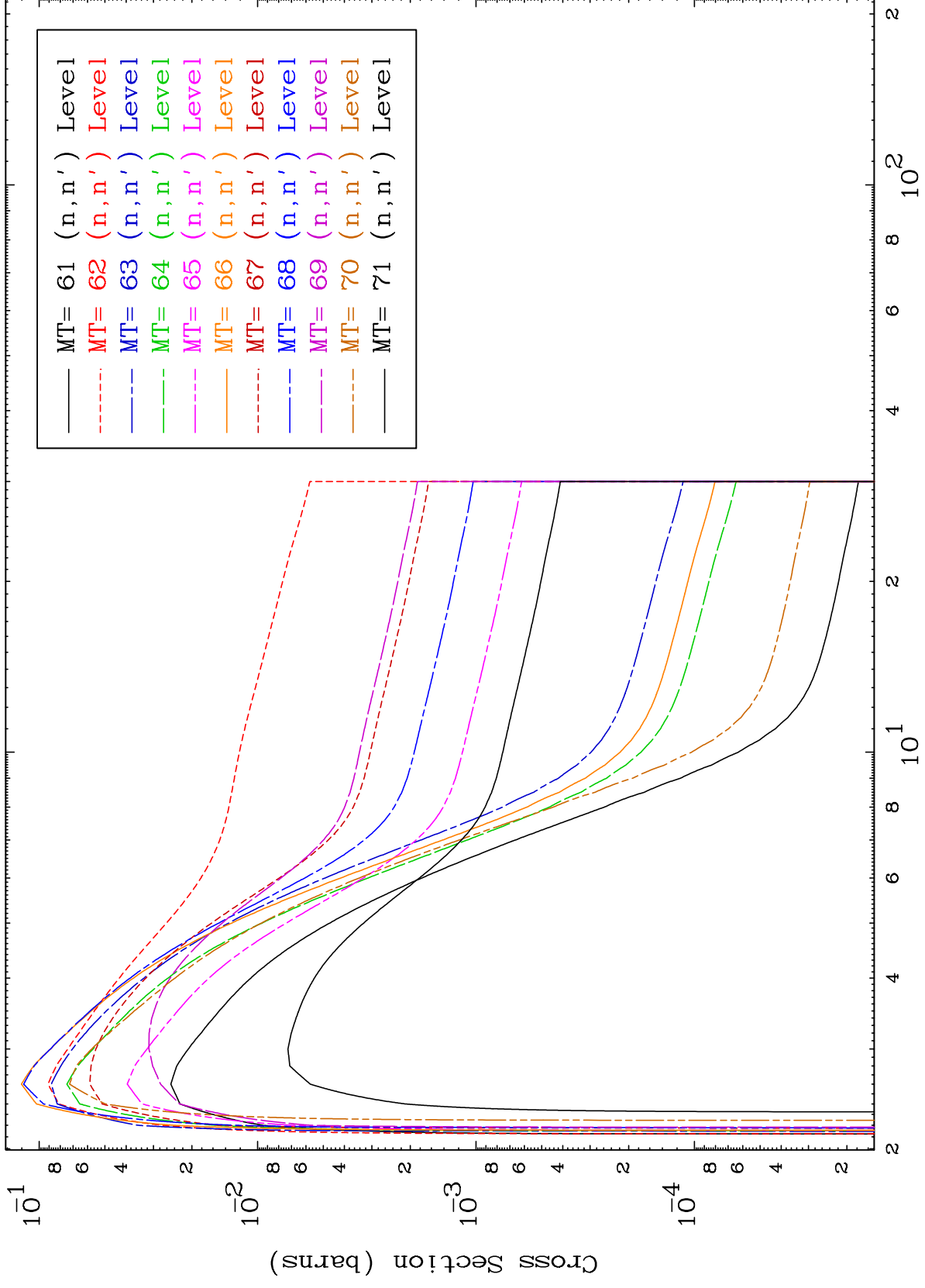
6

MAT 4022

(n,n') Level

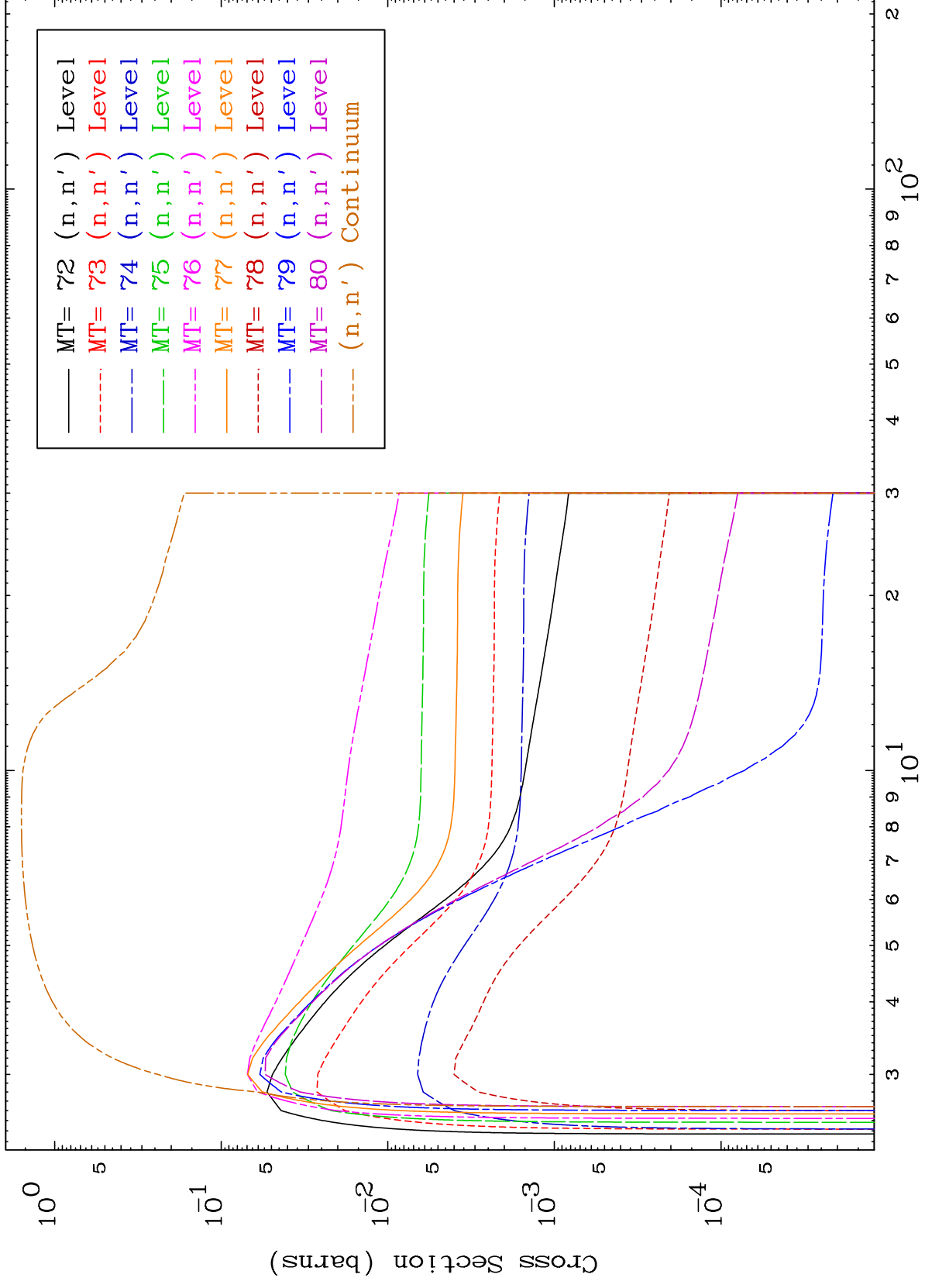
293 Kelvin Cross Sections

40-Zr-89





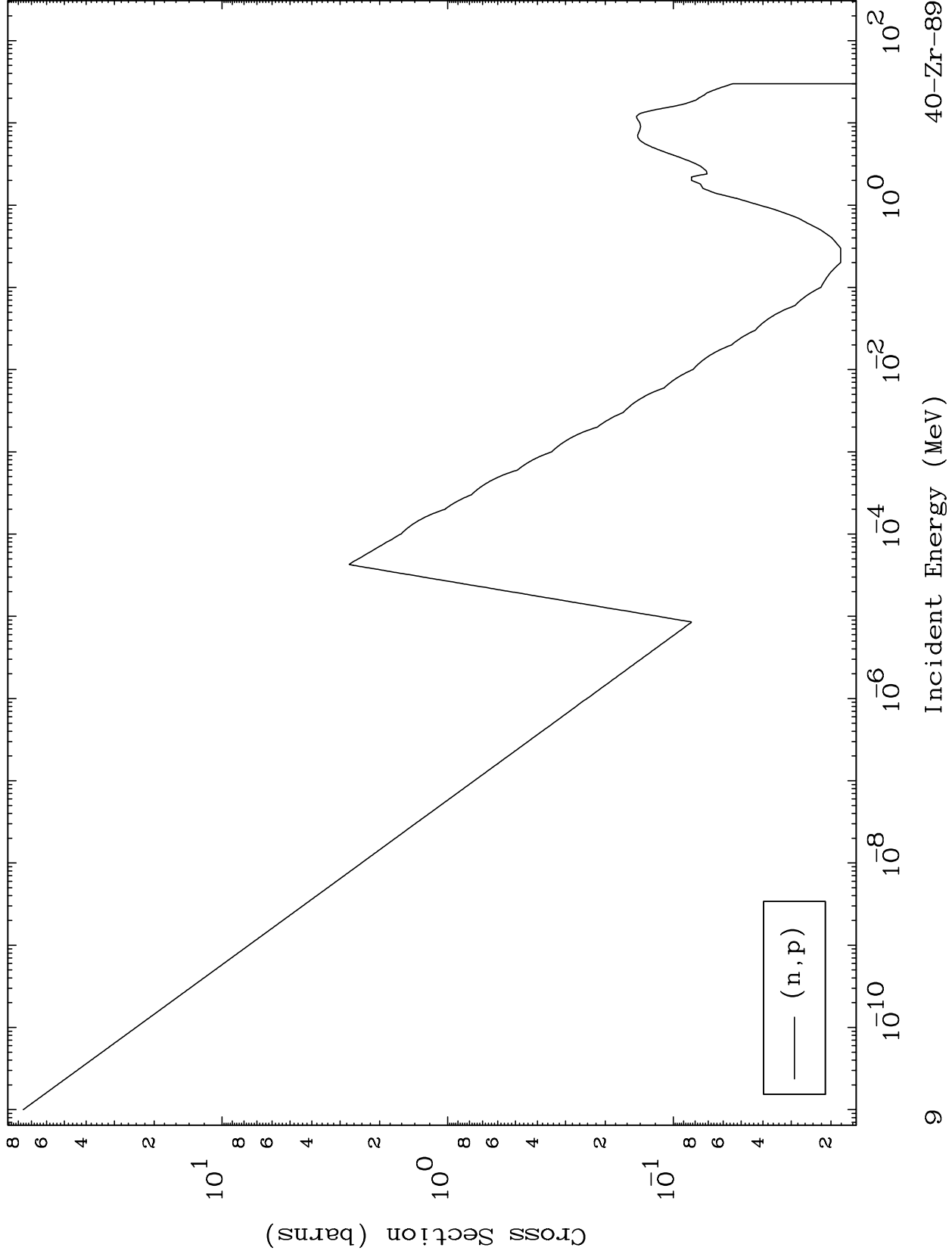
293 Kelvin Cross Sections



MAT 4022

(n,p) Levels  
293 Kelvin Cross Sections

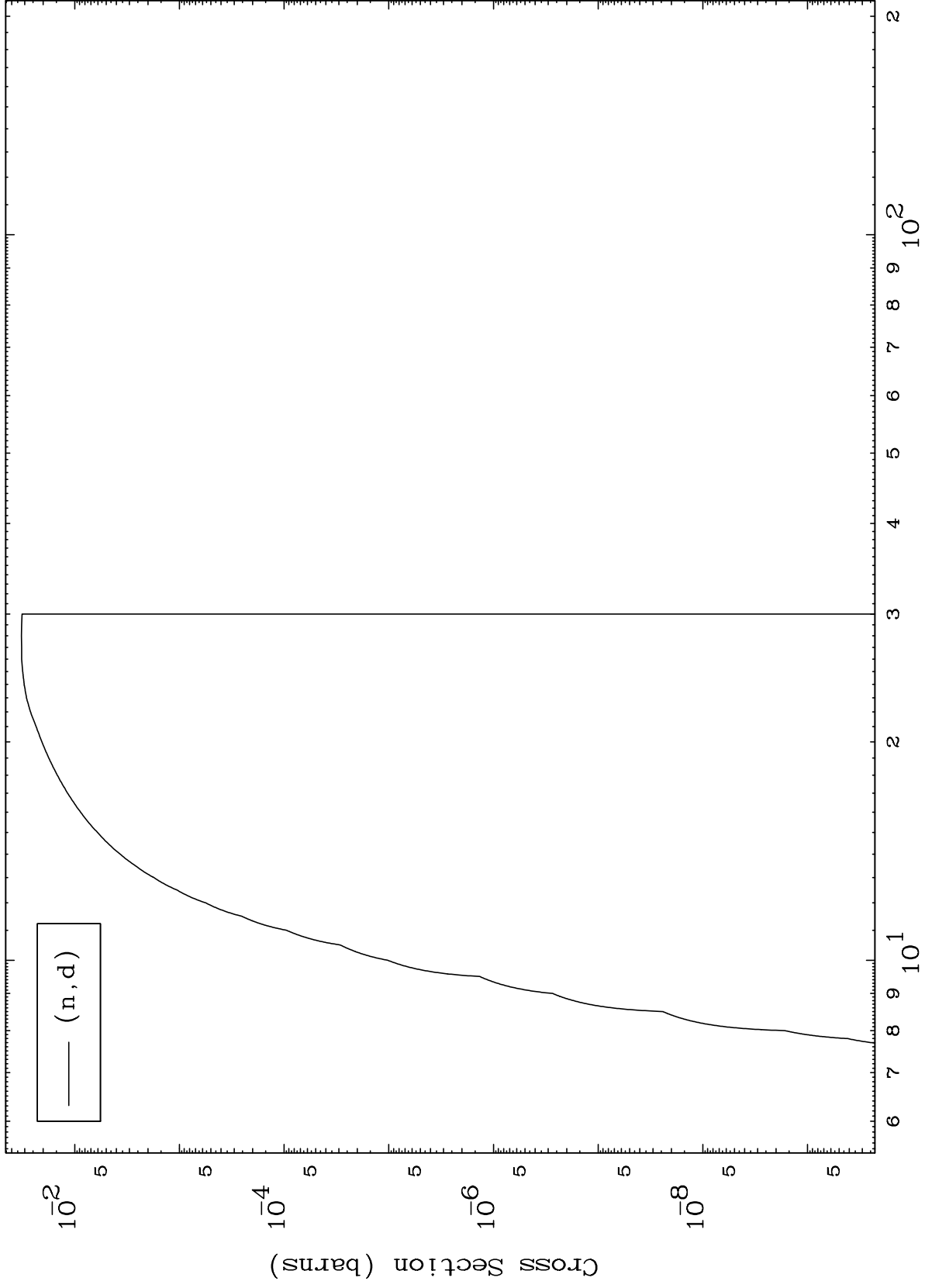
40-Zr-89



MAT 4022

(n,d) Levels  
293 Kelvin Cross Sections

40-Zr-89



10

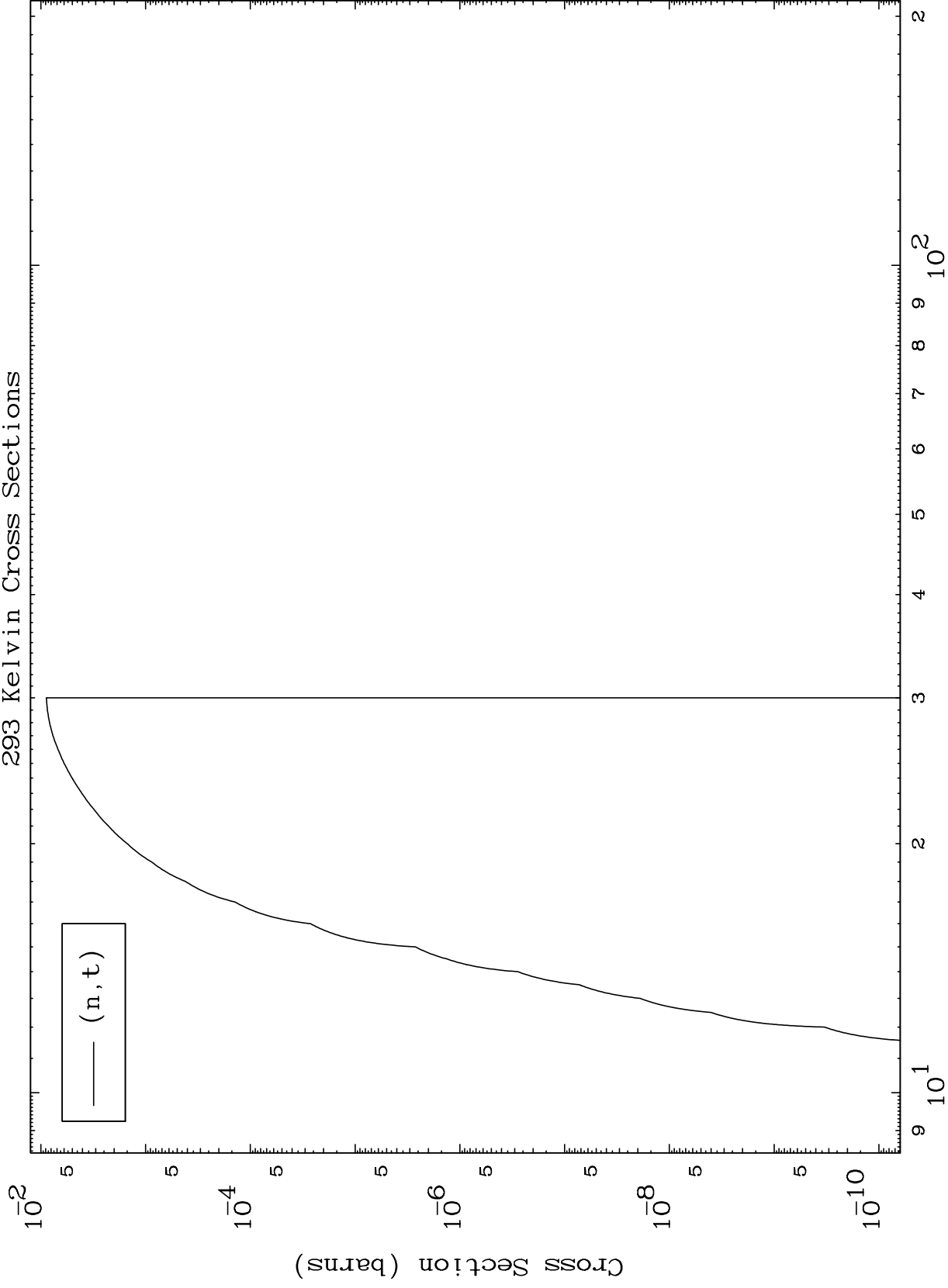
Incident Energy (MeV)

40-Zr-89

MAT 4022

(n,t) Levels  
293 Kelvin Cross Sections

40-Zr-89



11

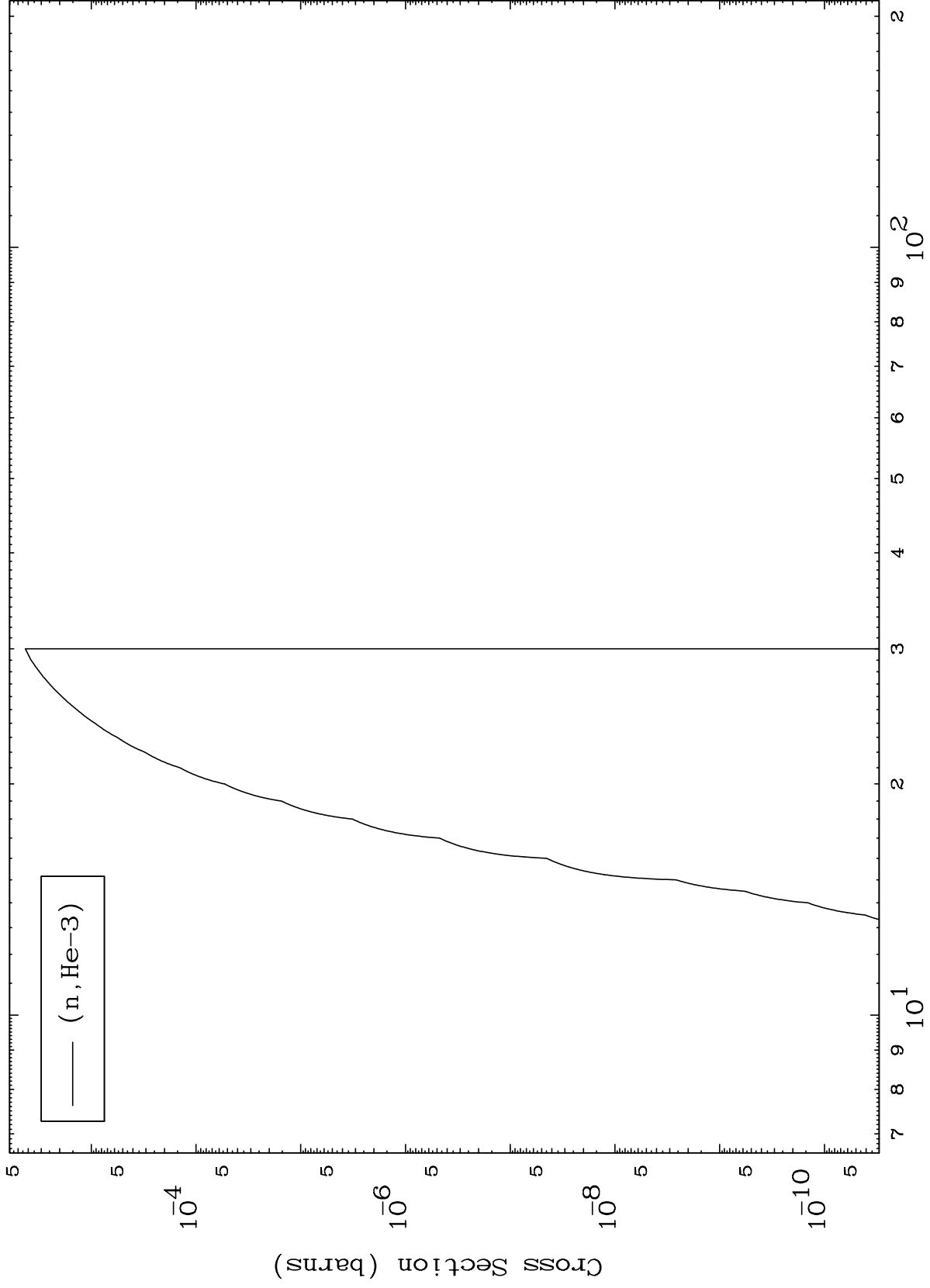
Incident Energy (MeV)

40-Zr-89

MAT 4022

(n,He3) Levels  
293 Kelvin Cross Sections

40-Zr-89



12

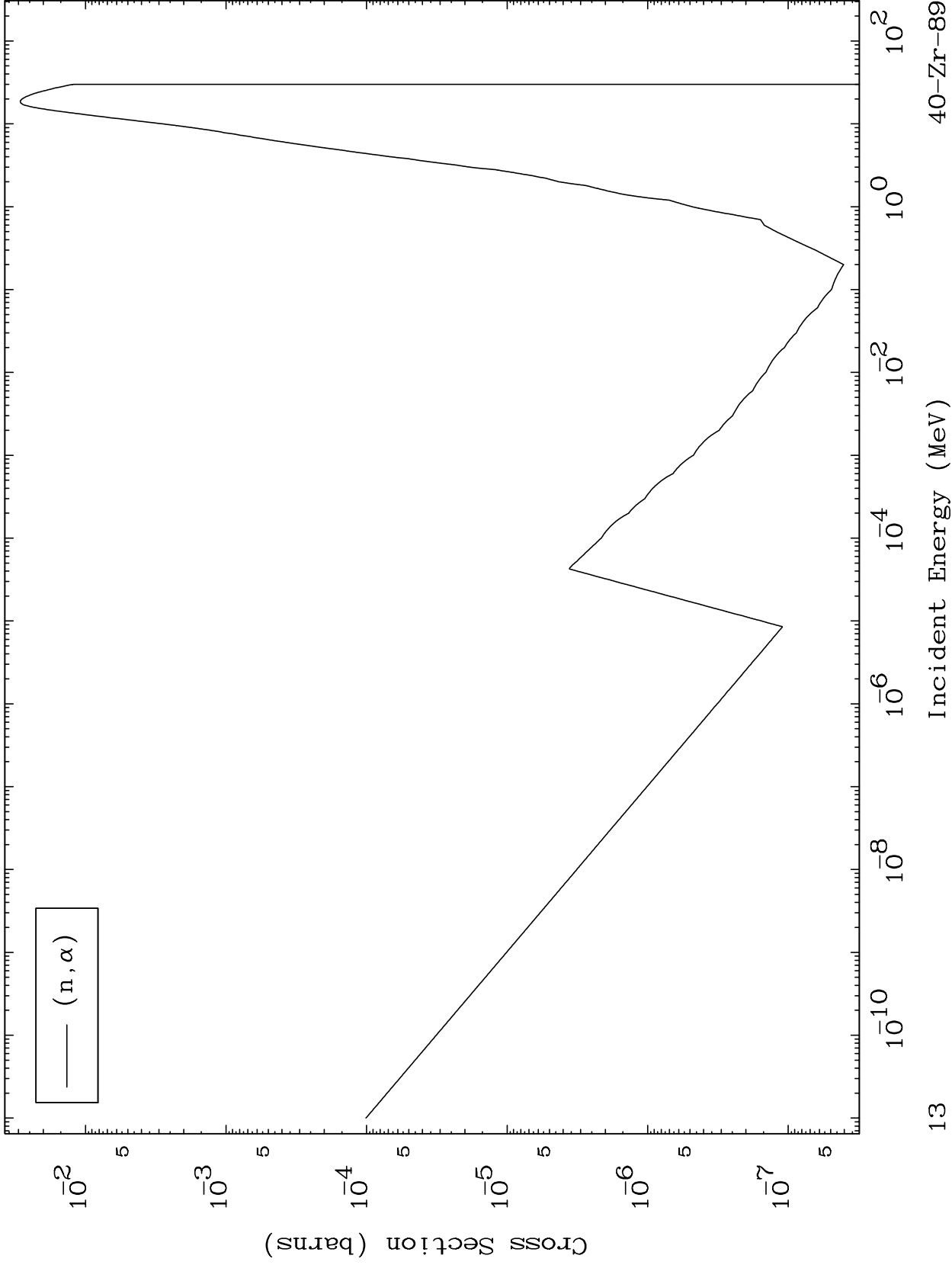
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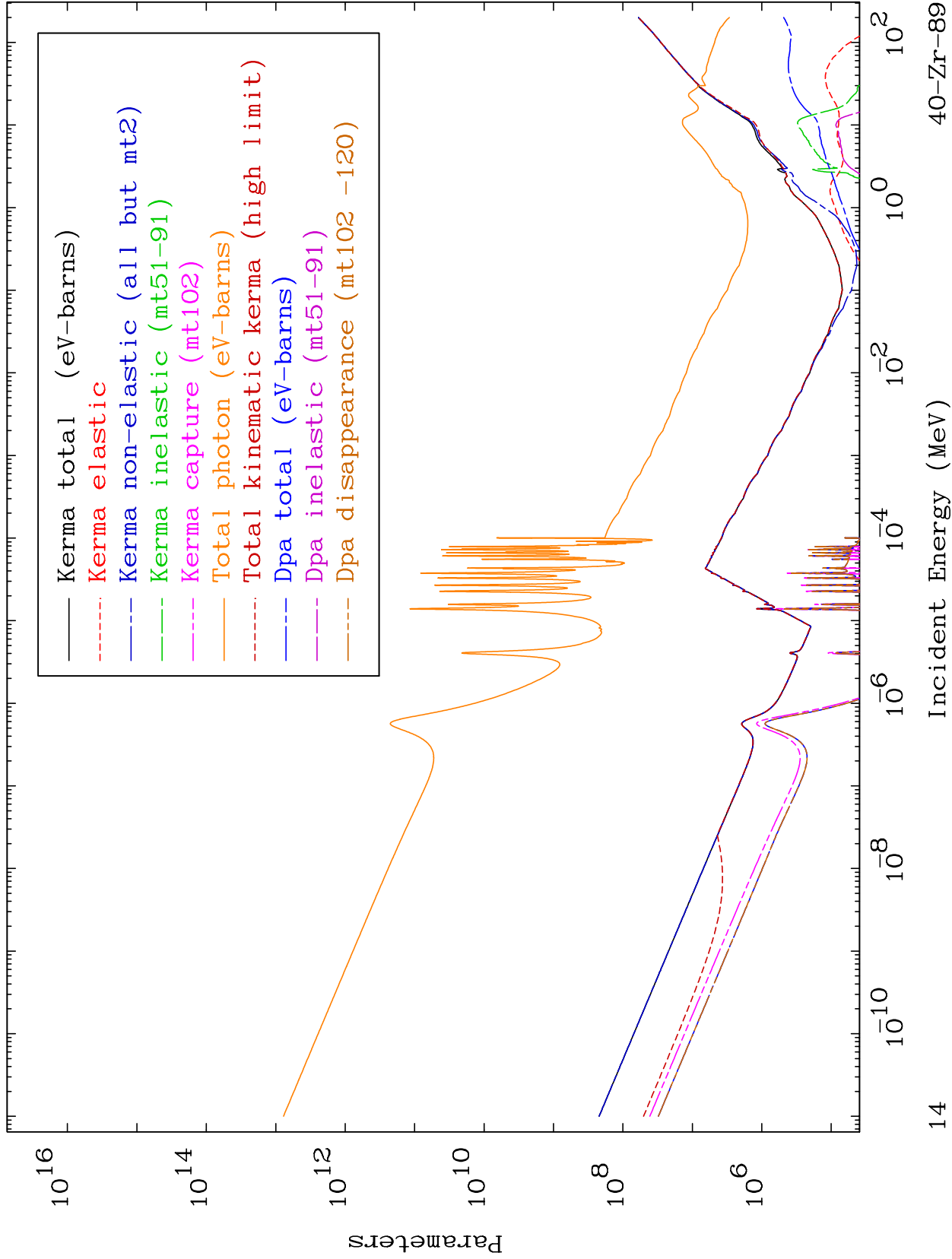
40-Zr-89

MAT 4022

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

40-Zr-89

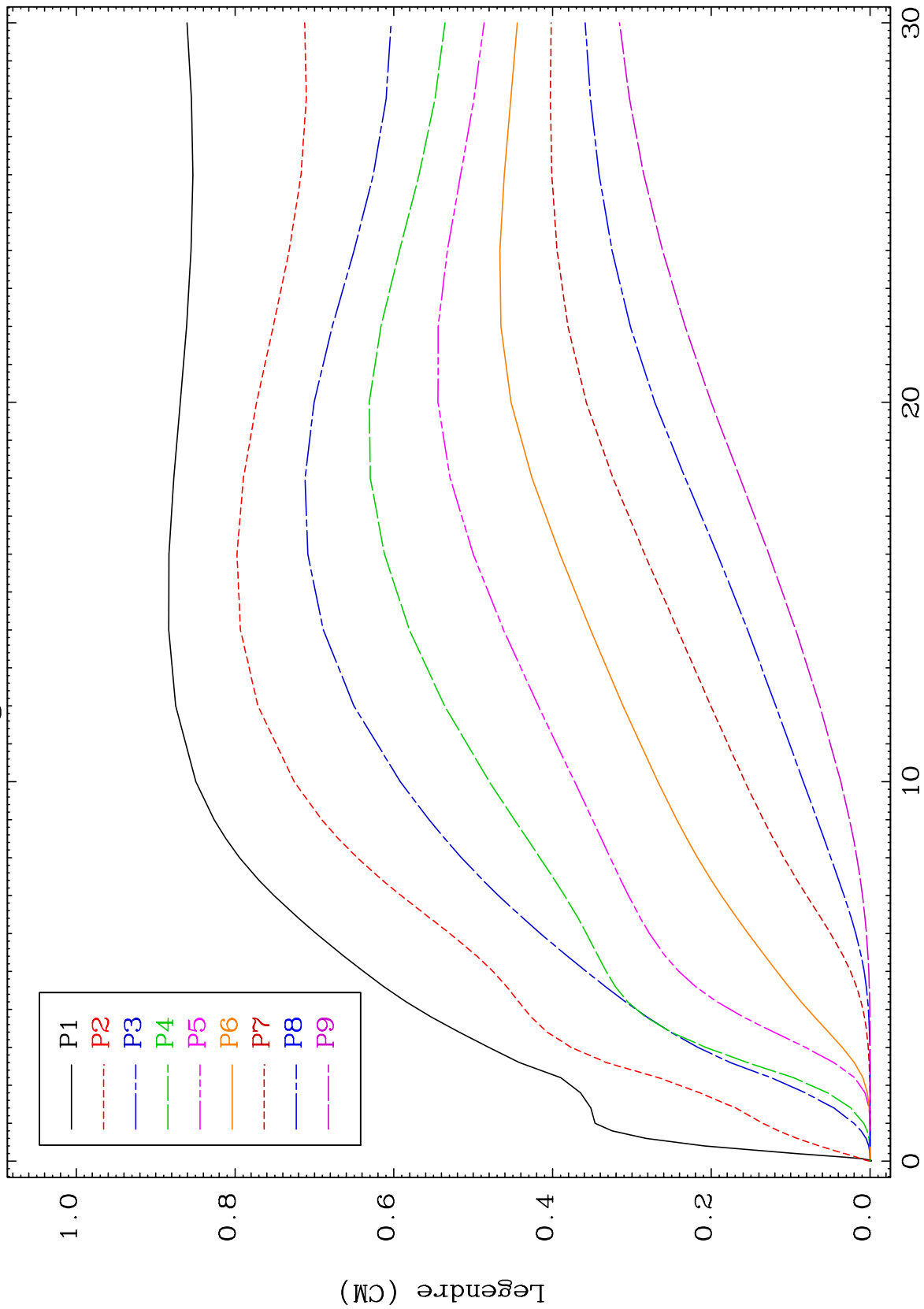




MAT 4022

Elastic Legendre Coefficients

40-Zr-89

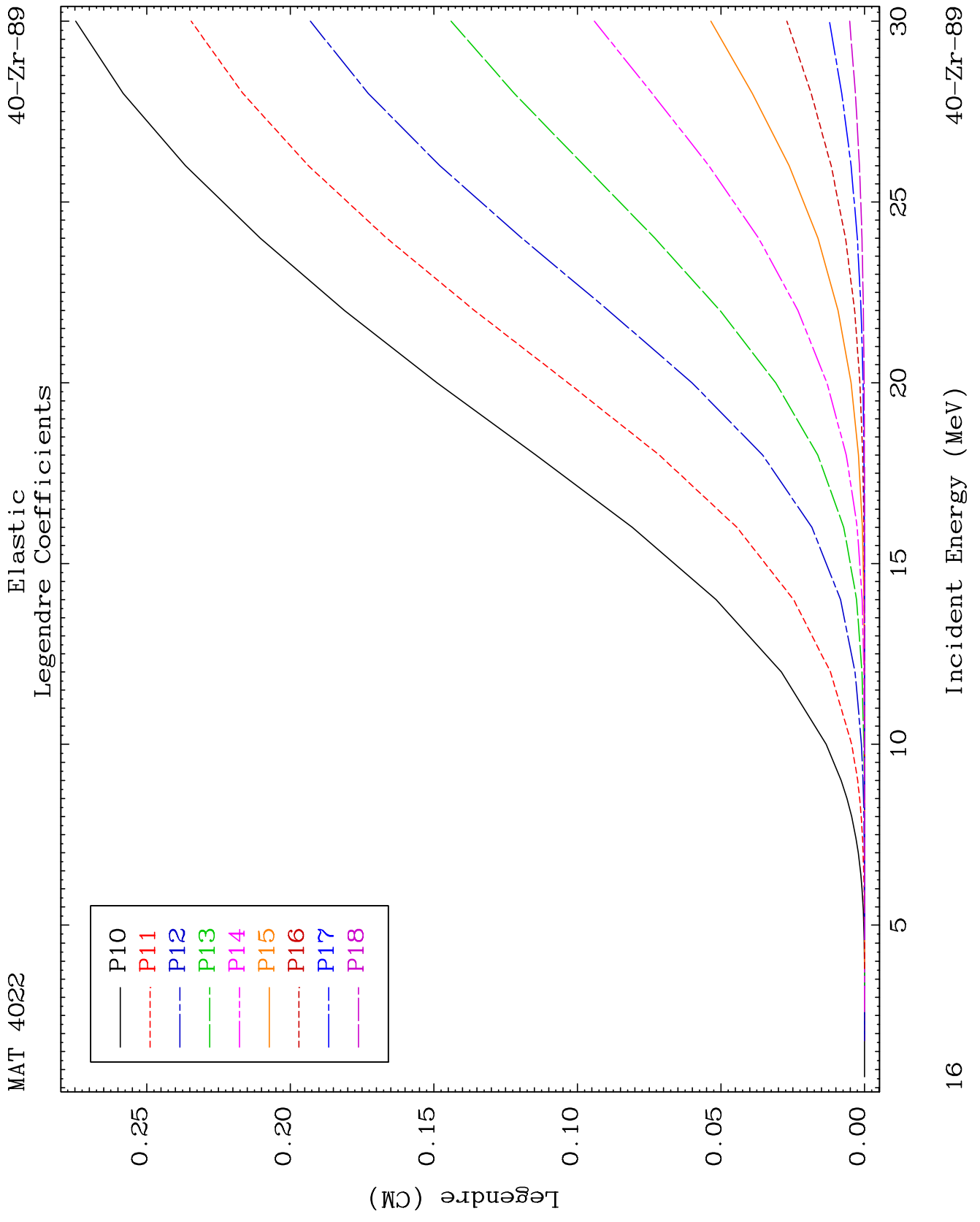


15

Incident Energy (MeV)

40-Zr-89

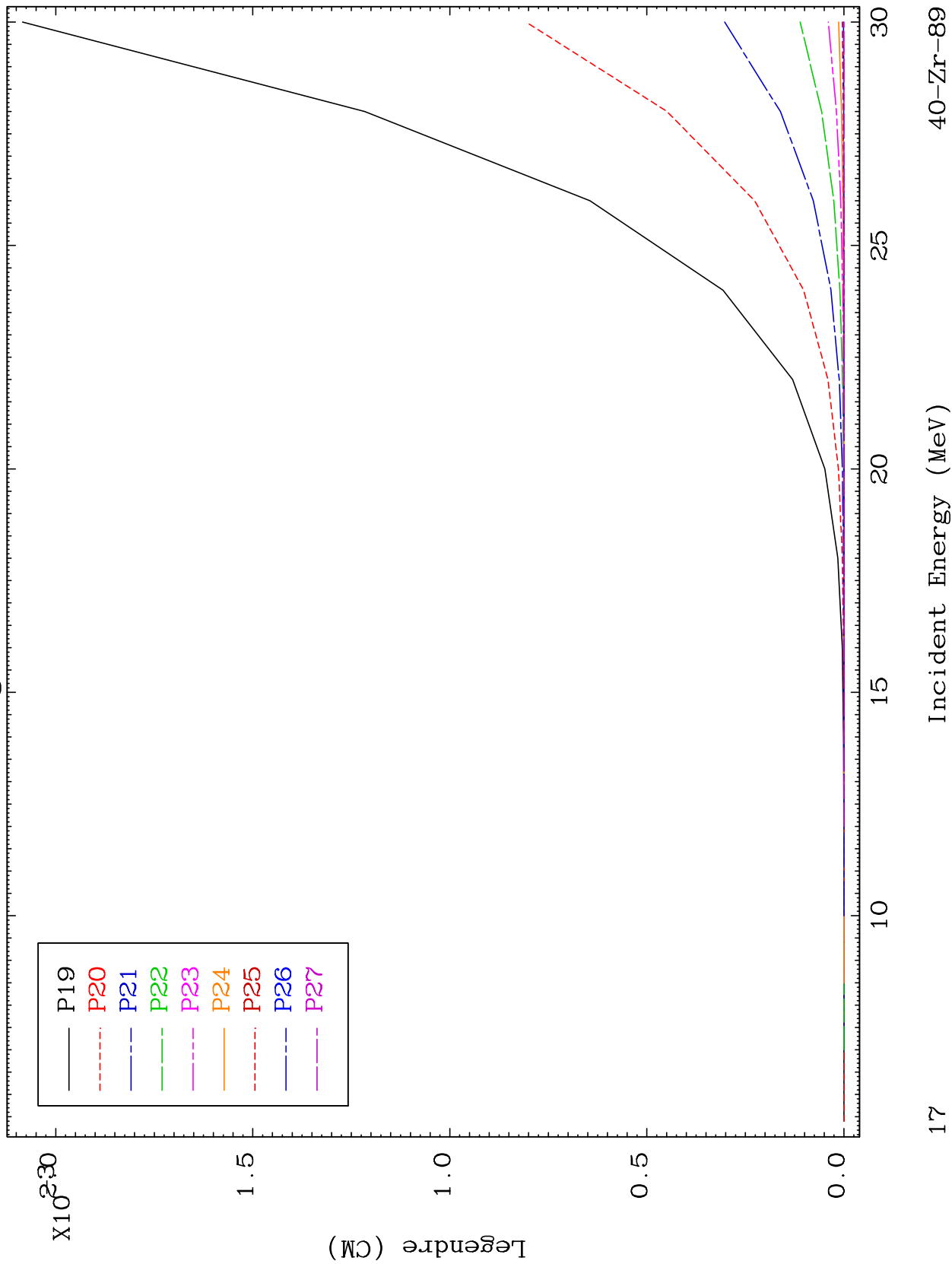




MAT 4022

Elastic  
Legendre Coefficients

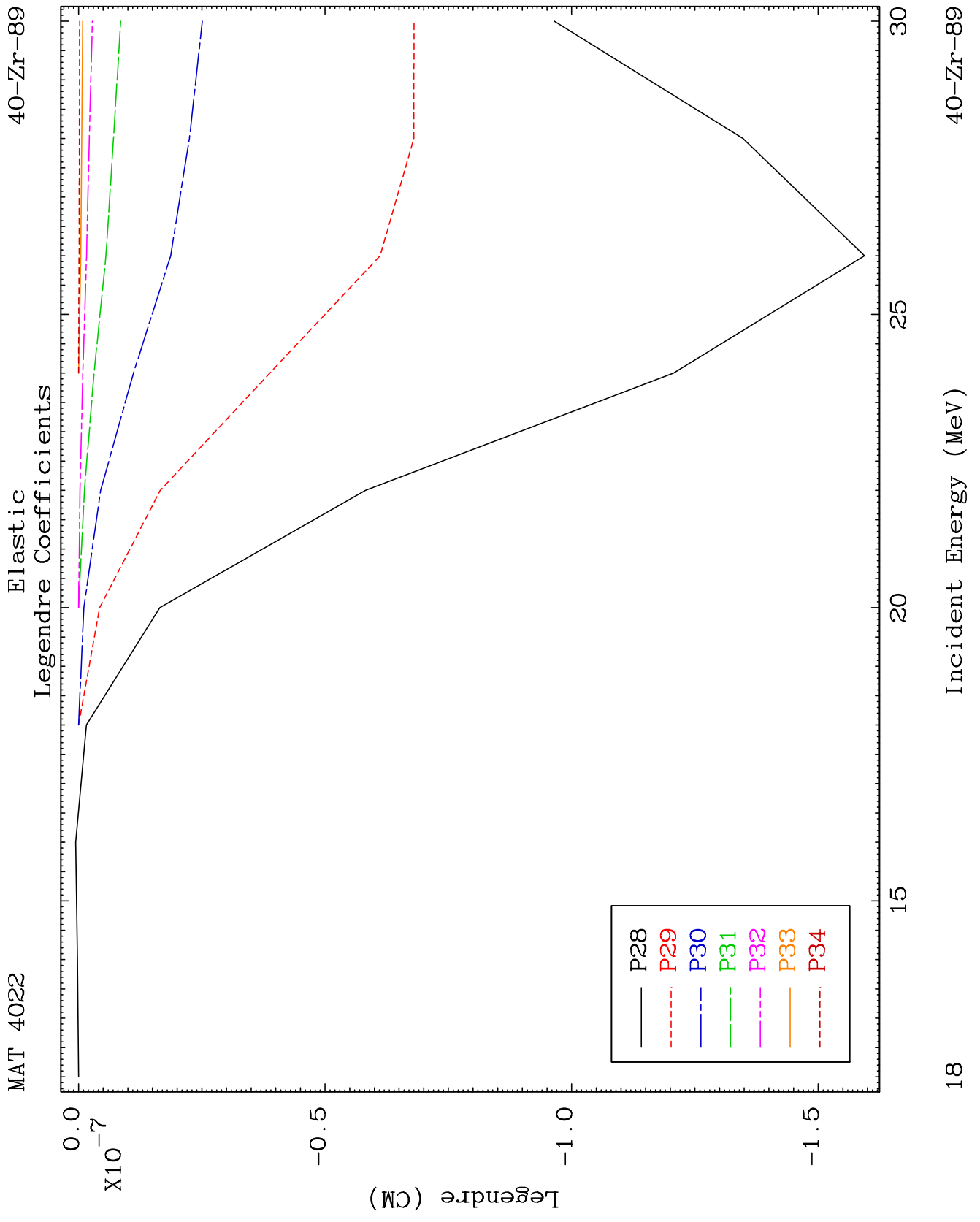
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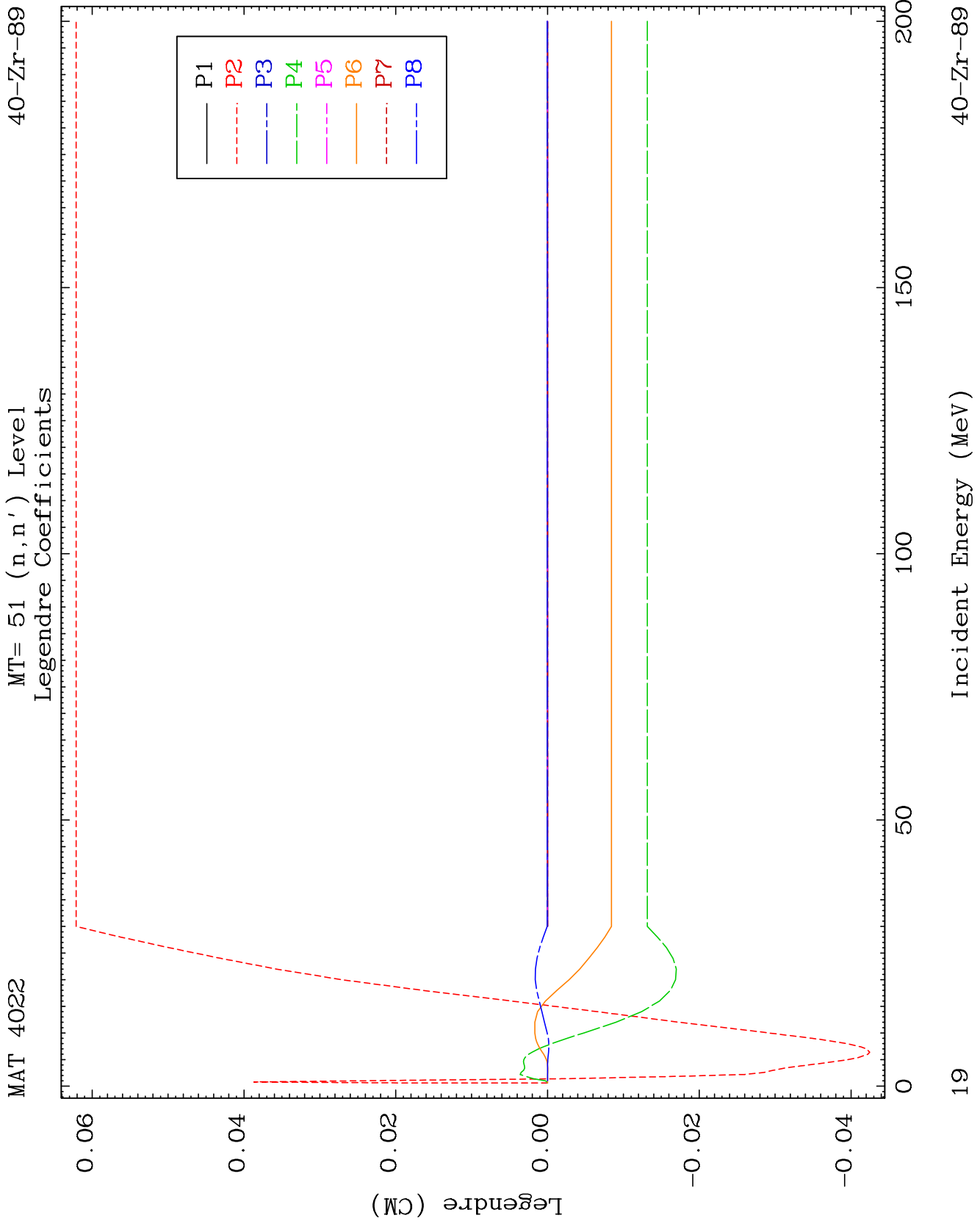


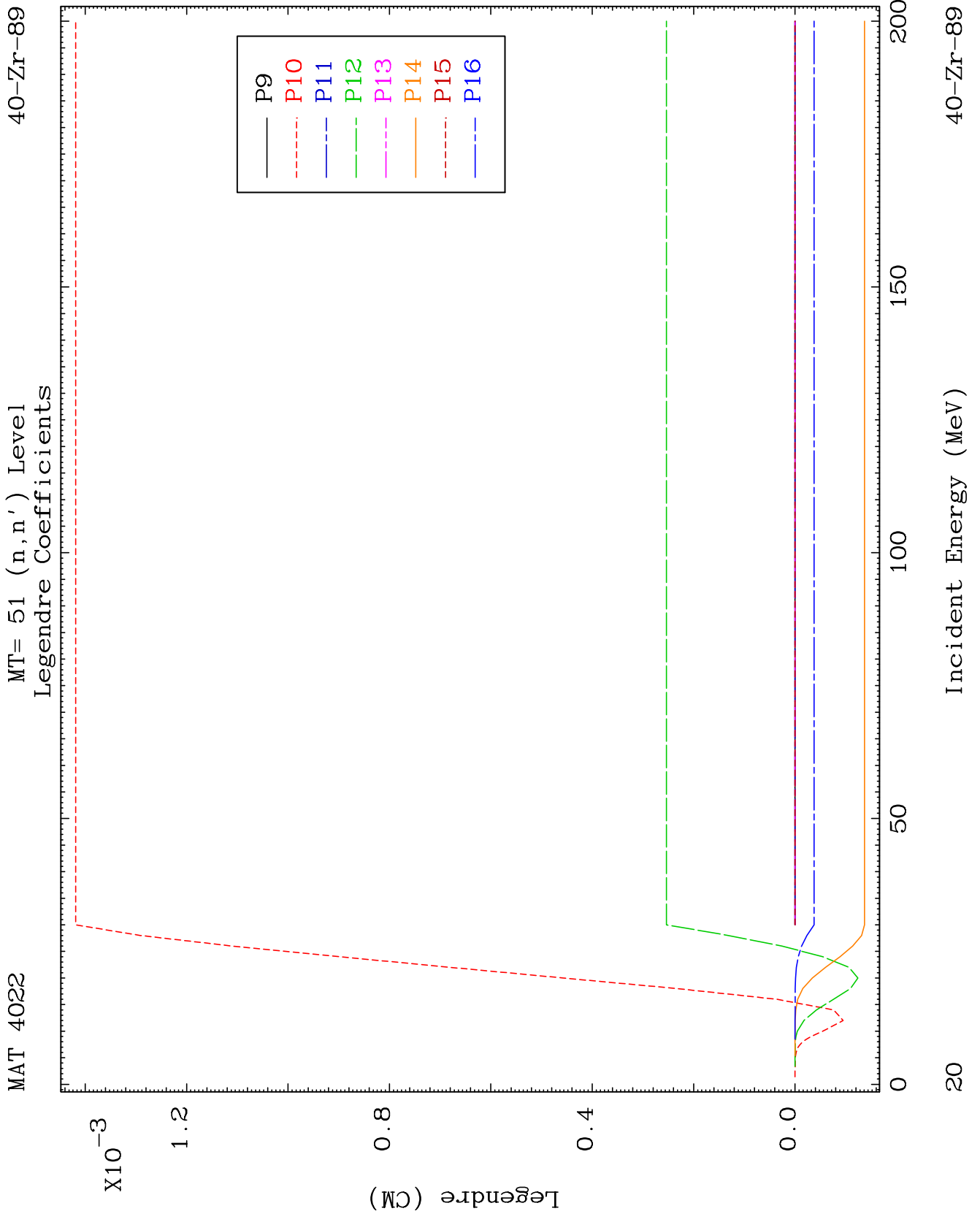
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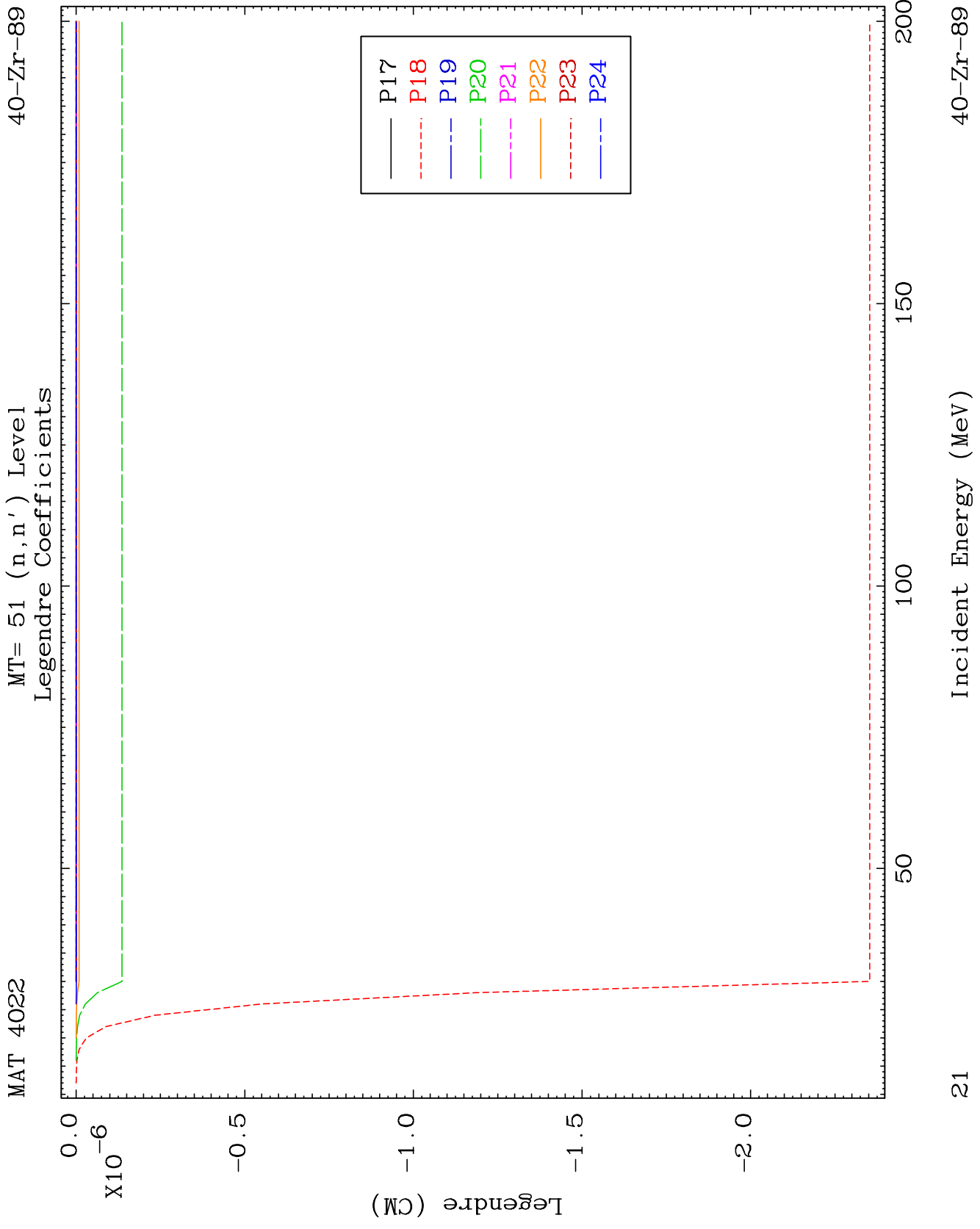
Incident Energy (MeV)

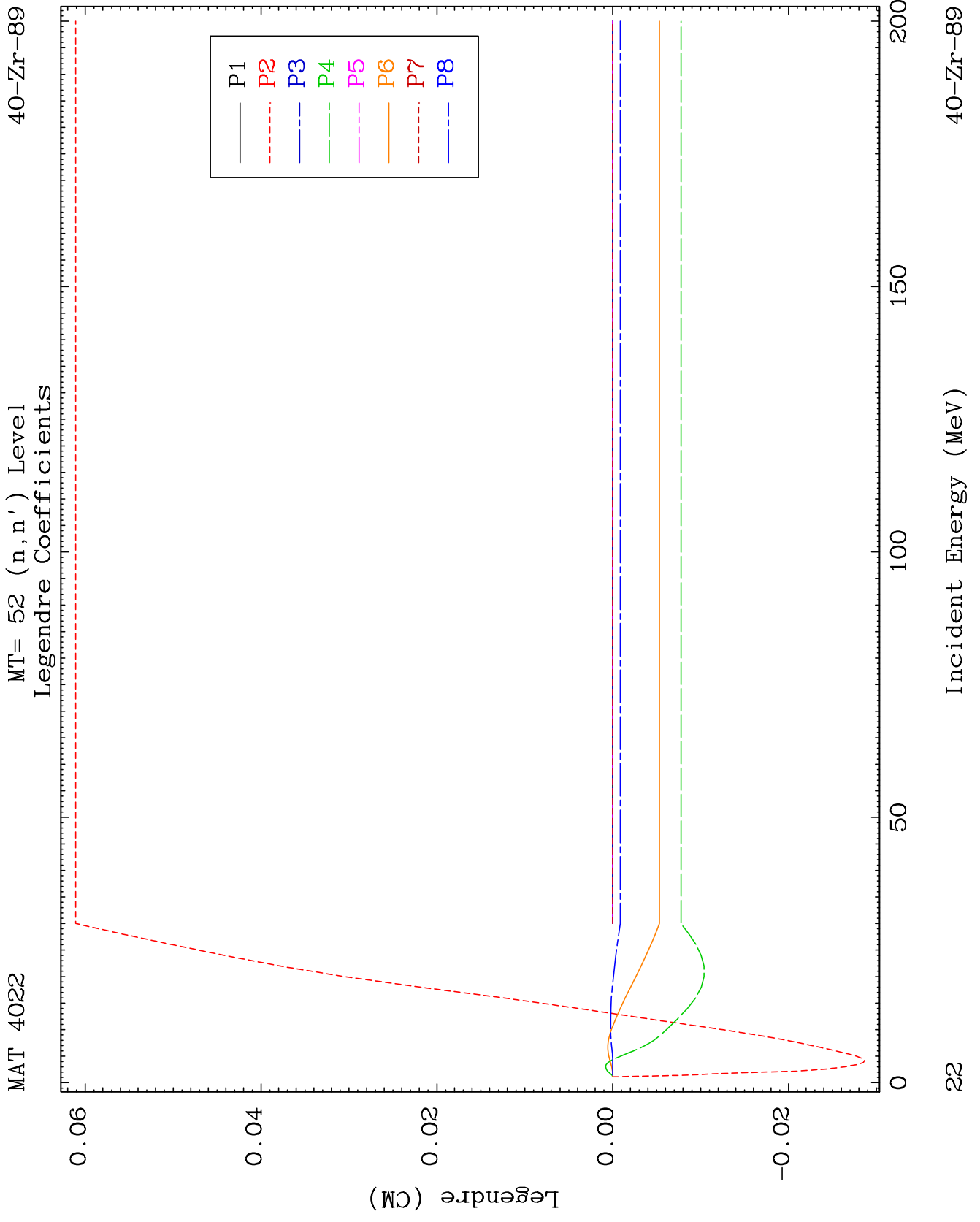
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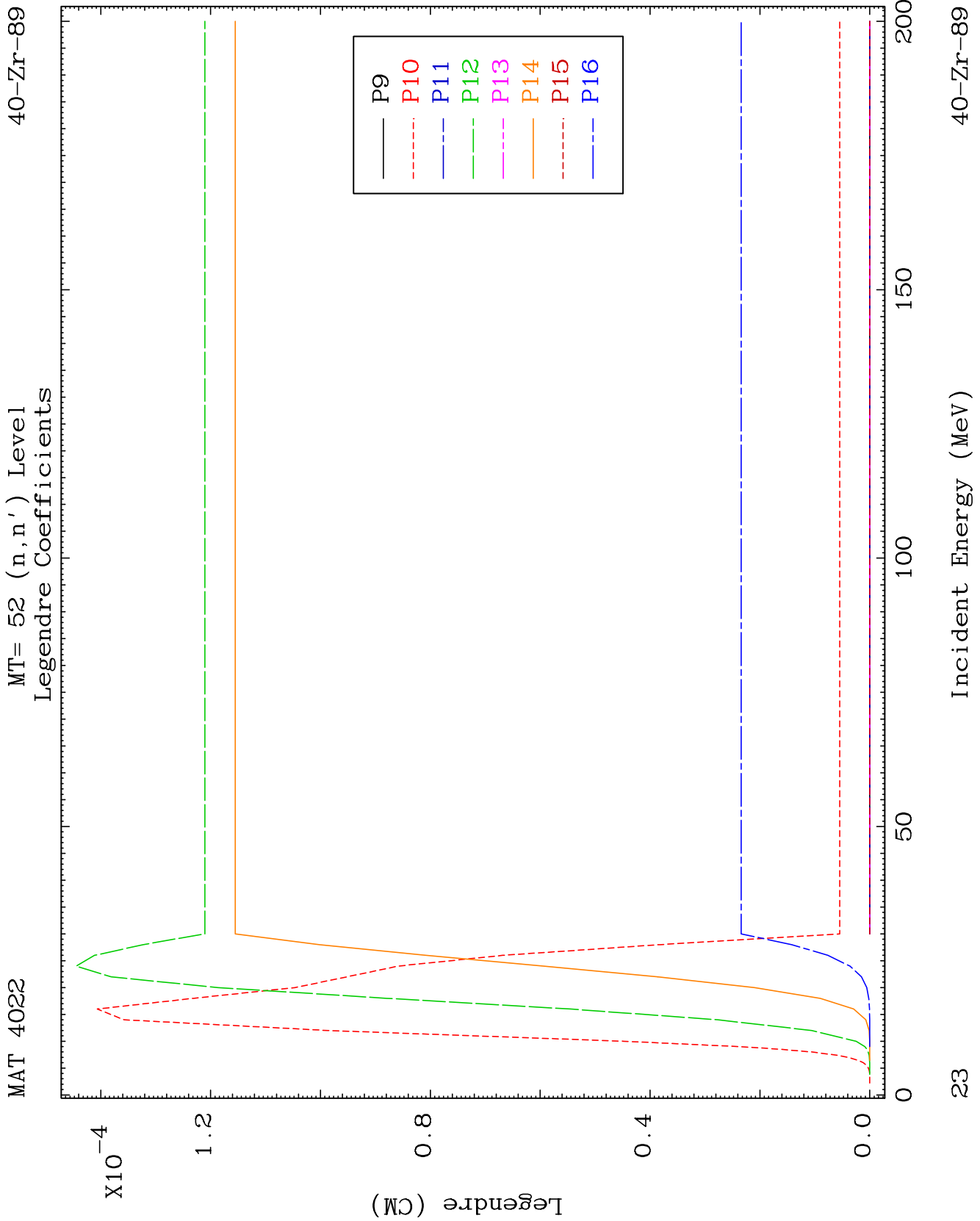




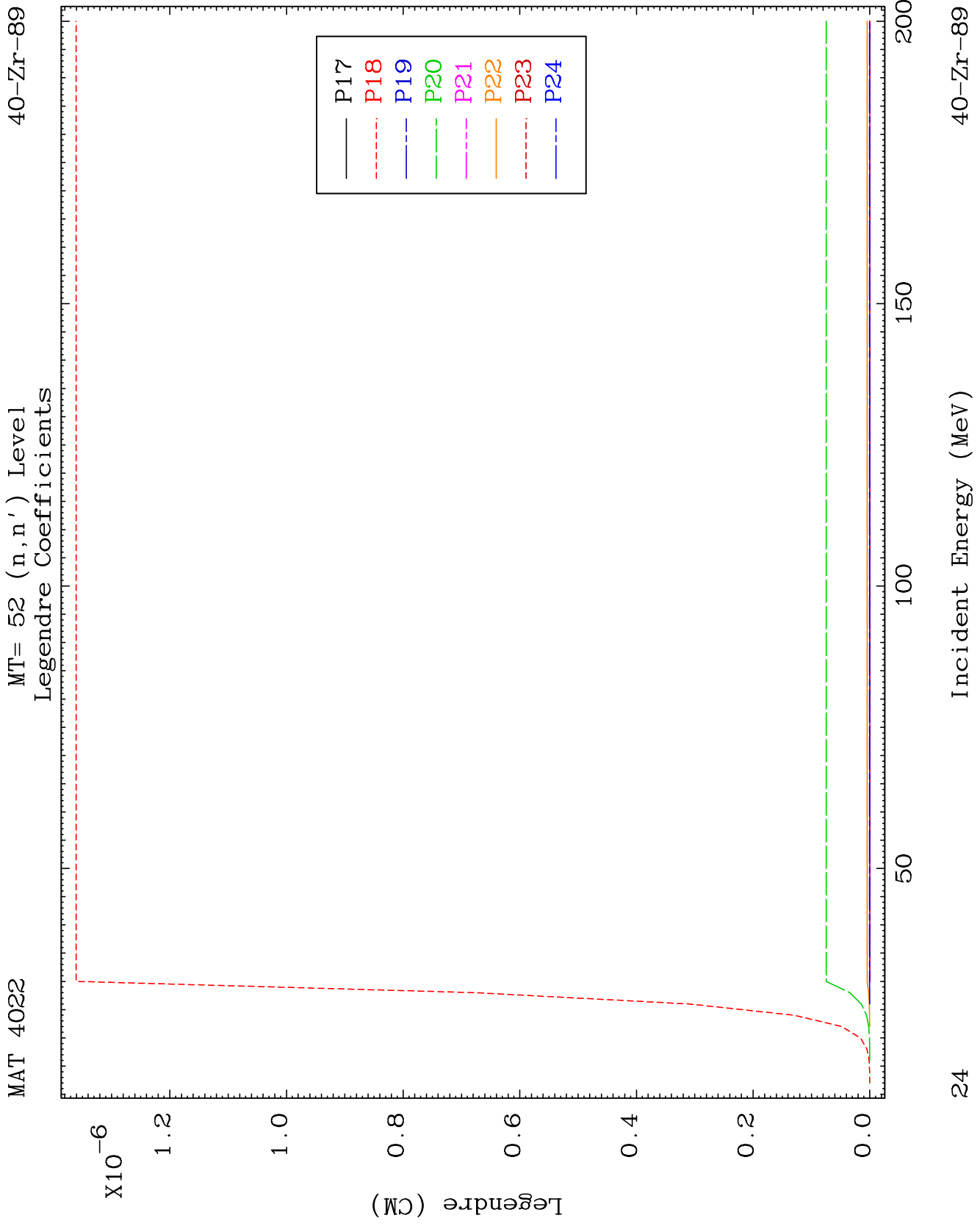










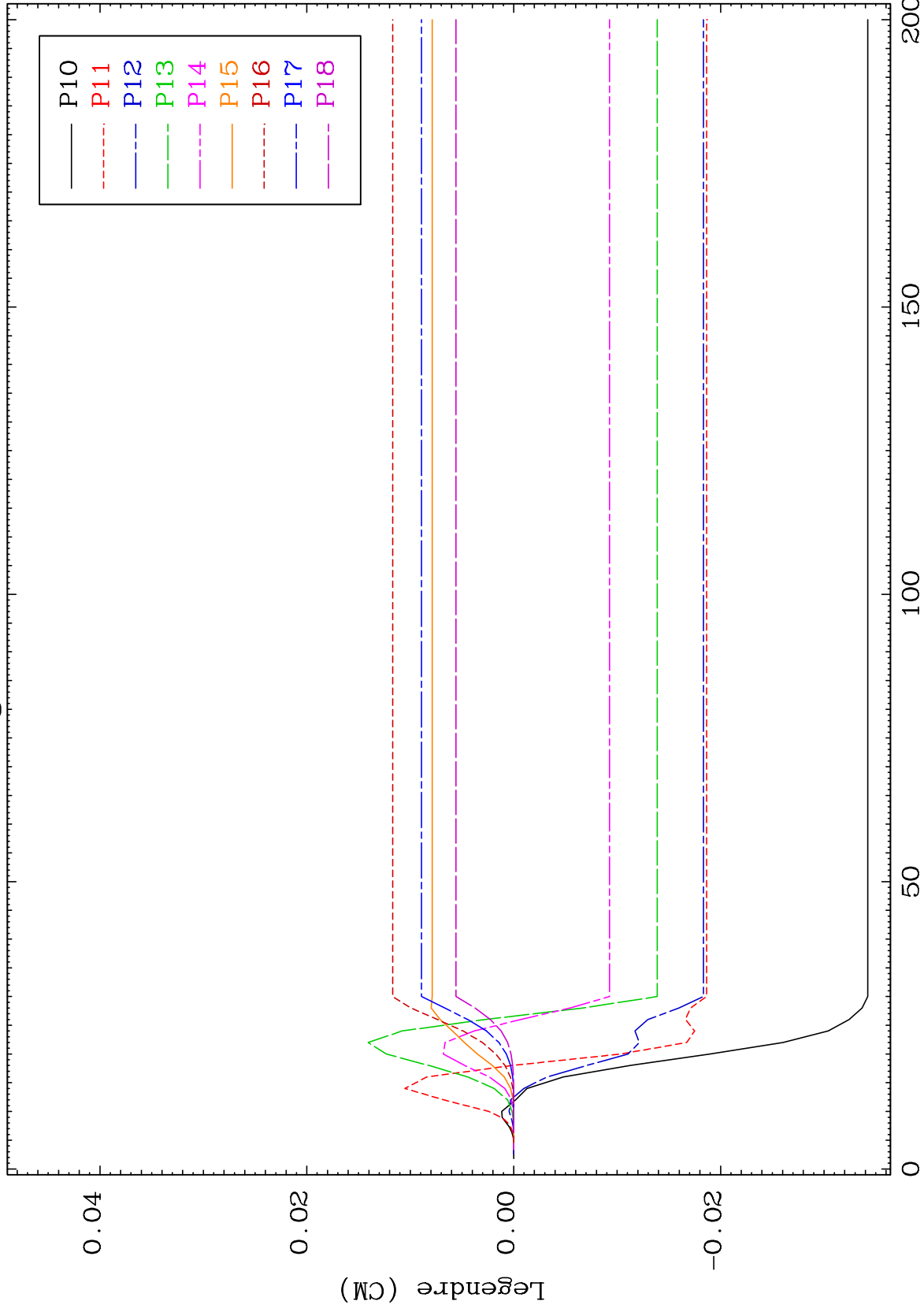




MAT 4022

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

40-Zr-89



26

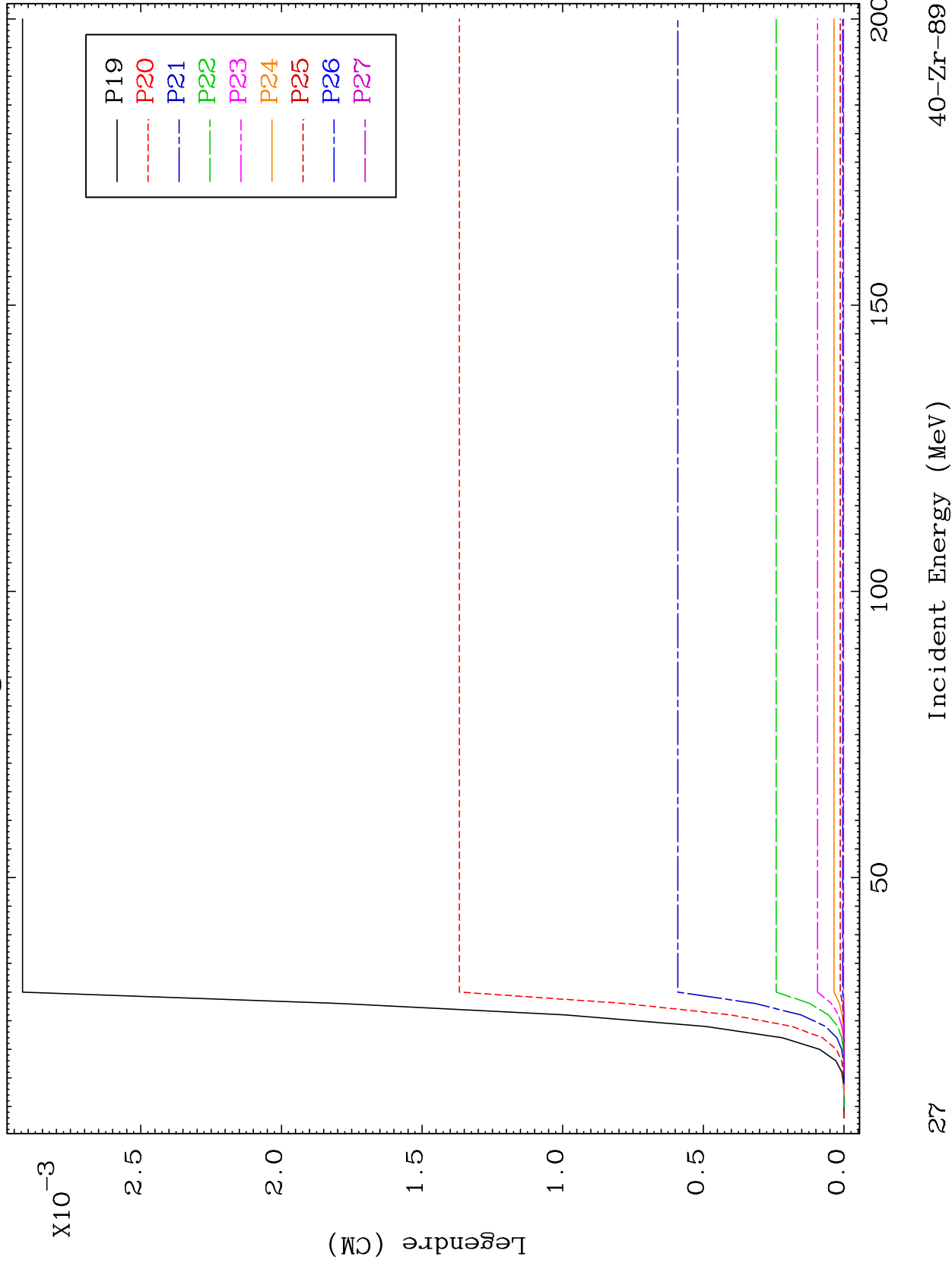
Incident Energy (MeV)

40-Zr-89

MAT 4022

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

40-Zr-89



27

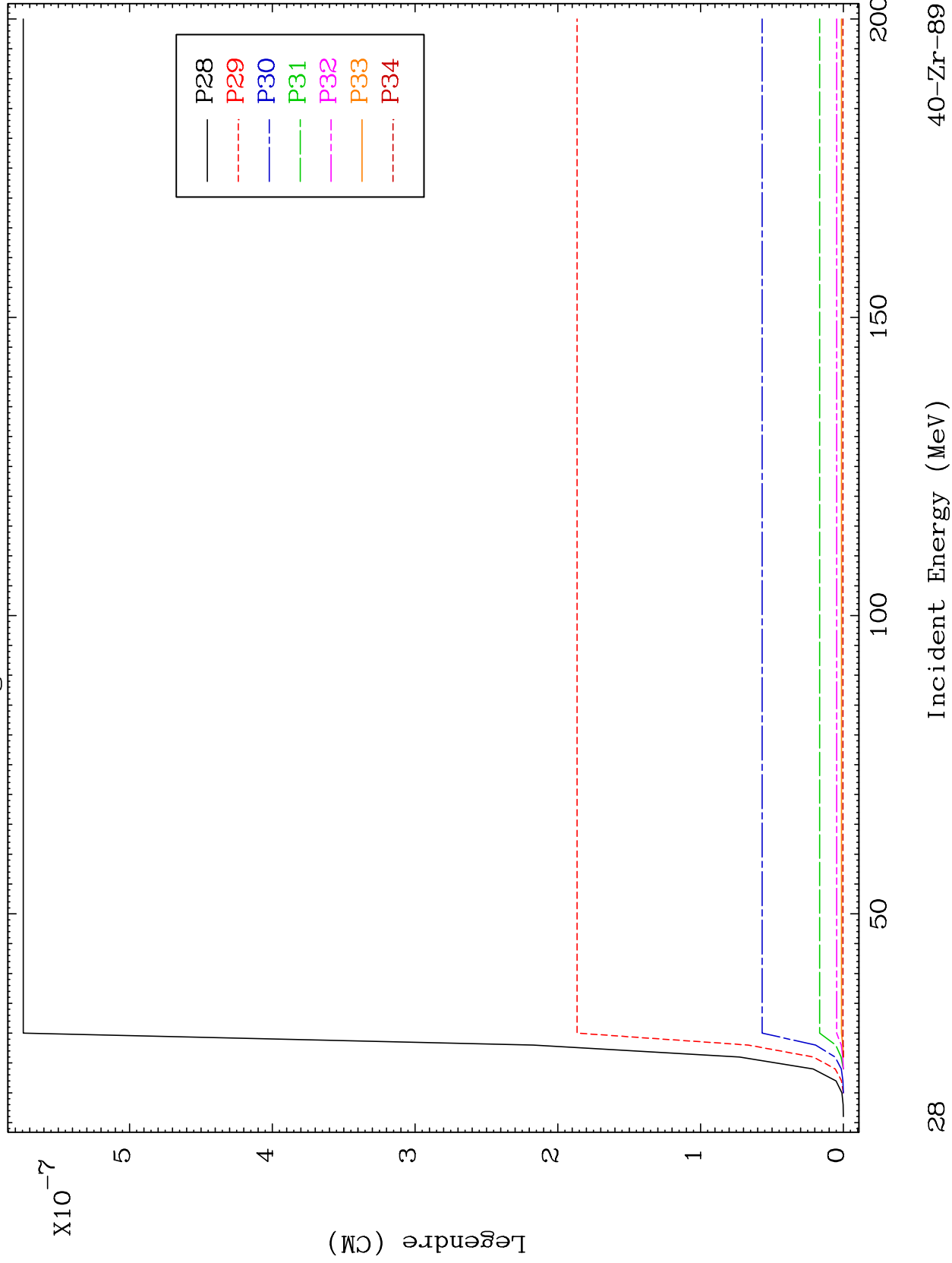
Incident Energy (MeV)

40-Zr-89

MAT 4022

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

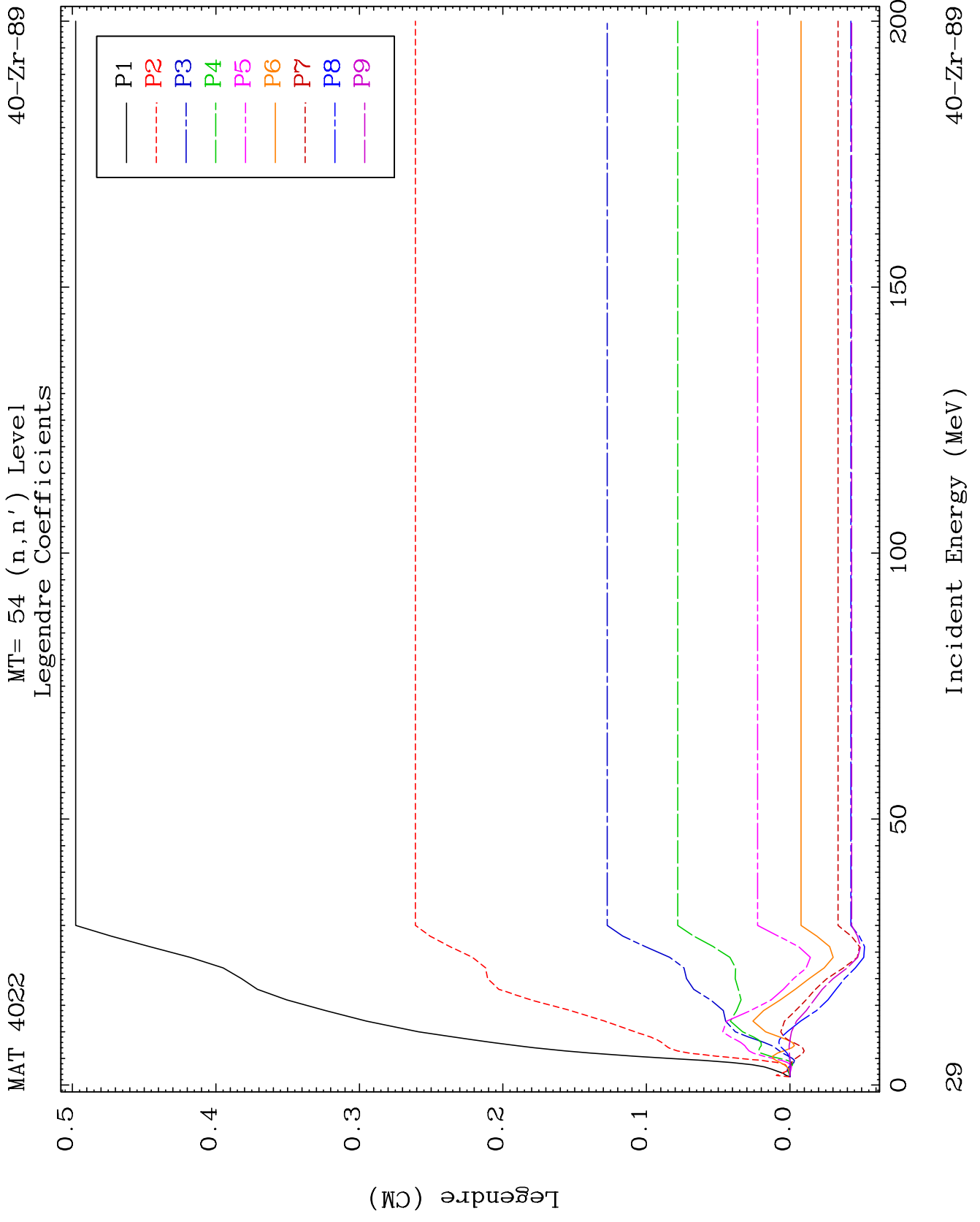
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28

Incident Energy (MeV)

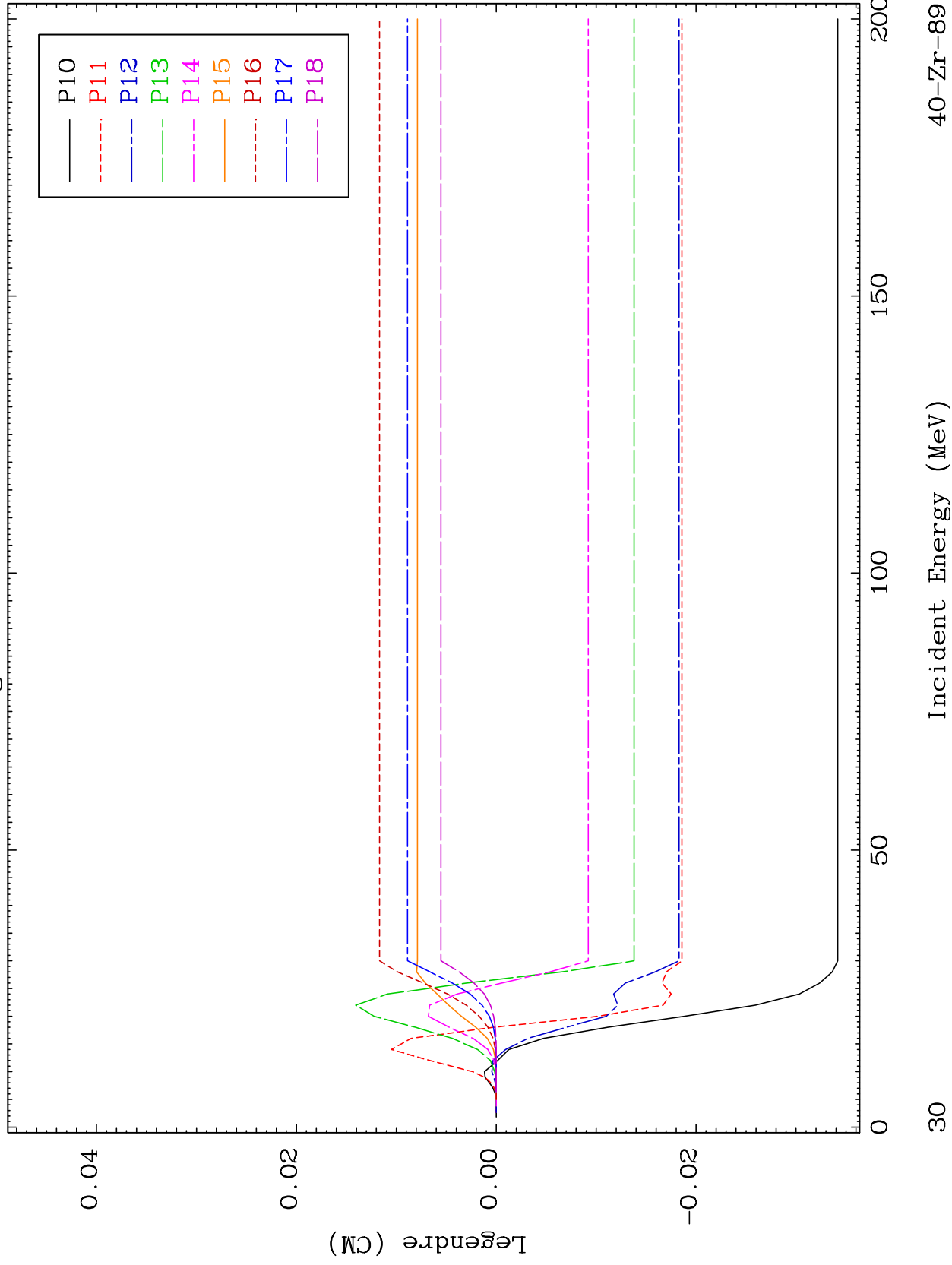
40-Zr-89



MAT 4022

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

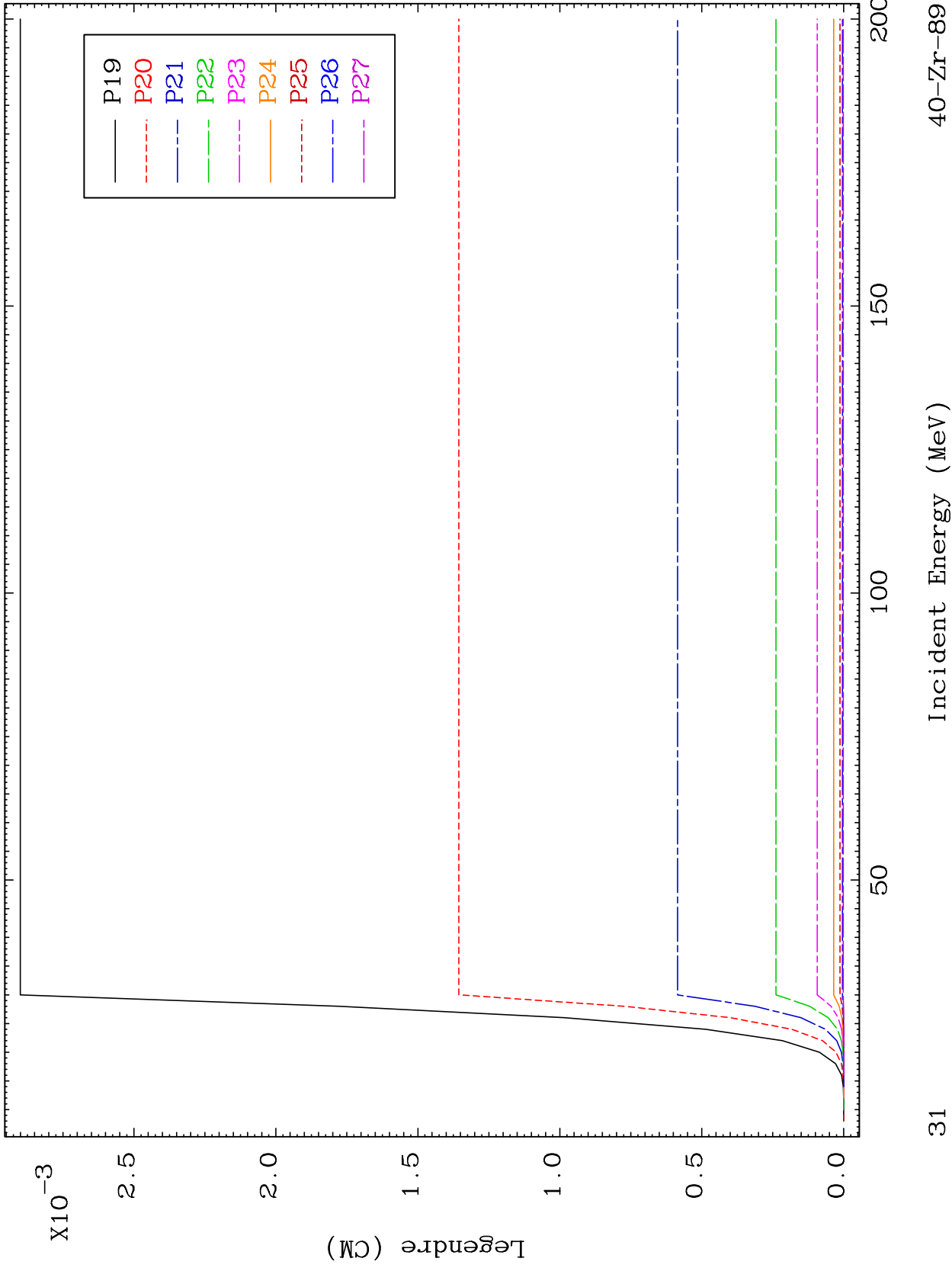
40-Zr-89



MAT 4022

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

40-Zr-89



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Incident Energy (MeV)

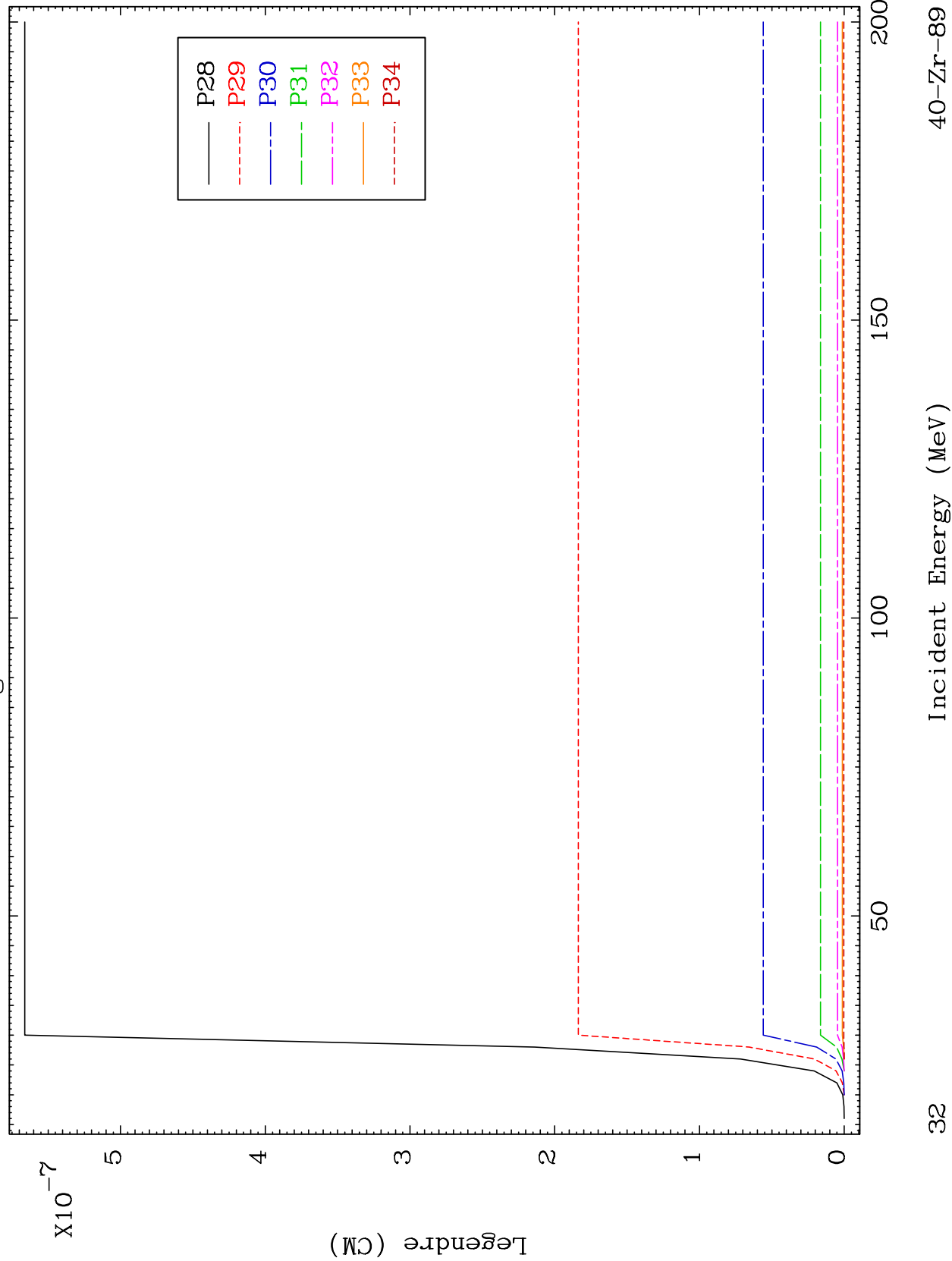
40-Zr-89



MAT 4022

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

40-Zr-89

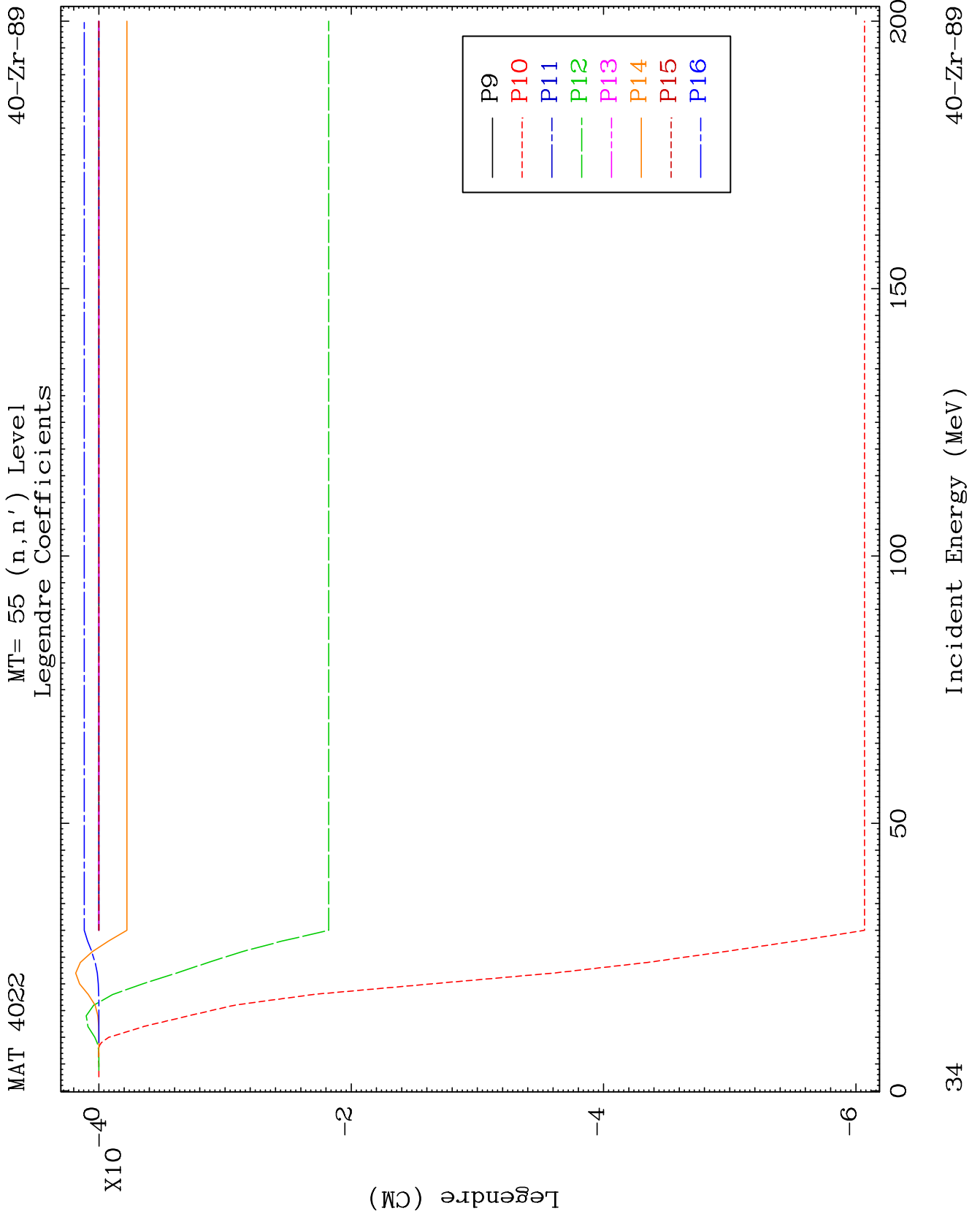


32

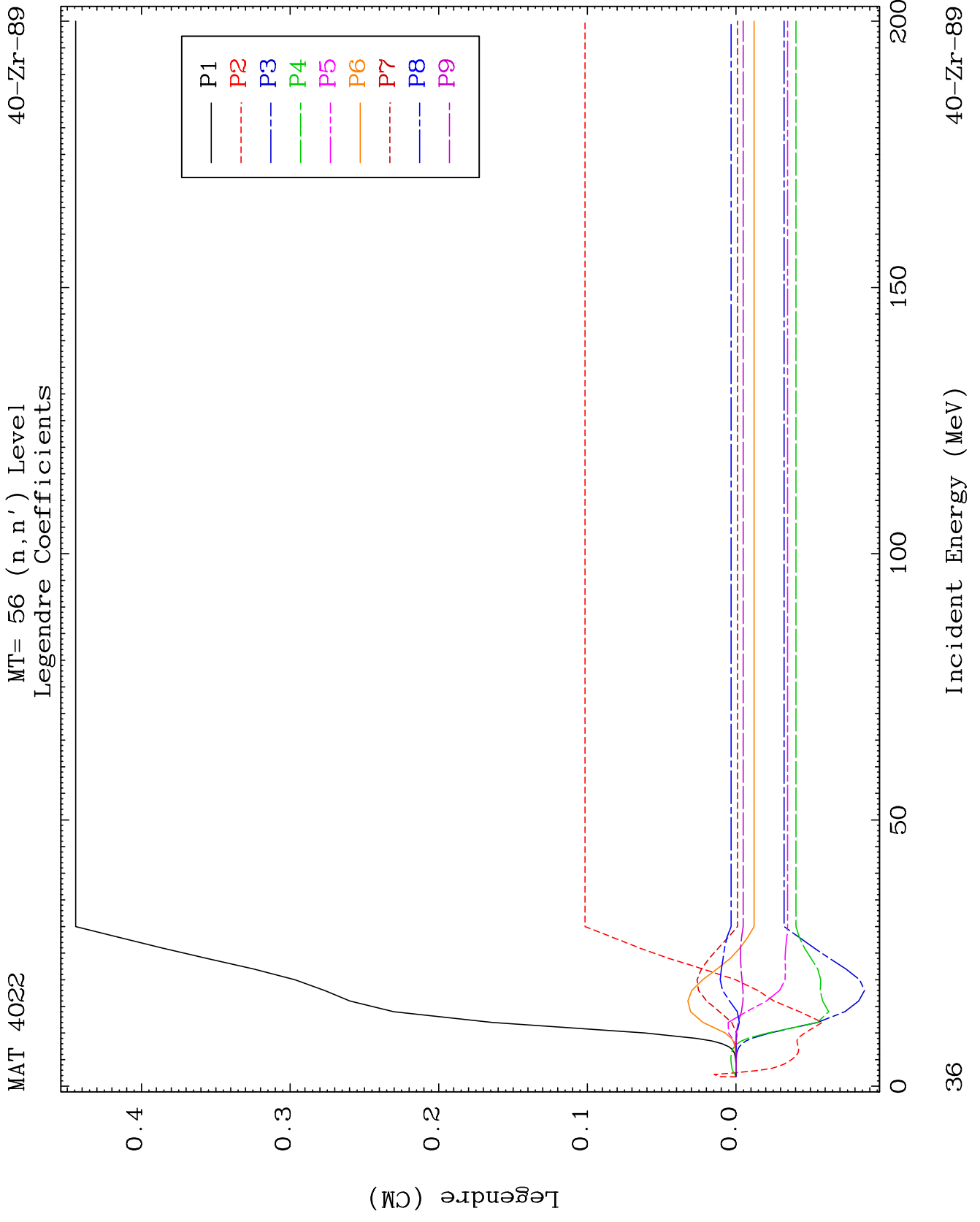
Incident Energy (MeV)

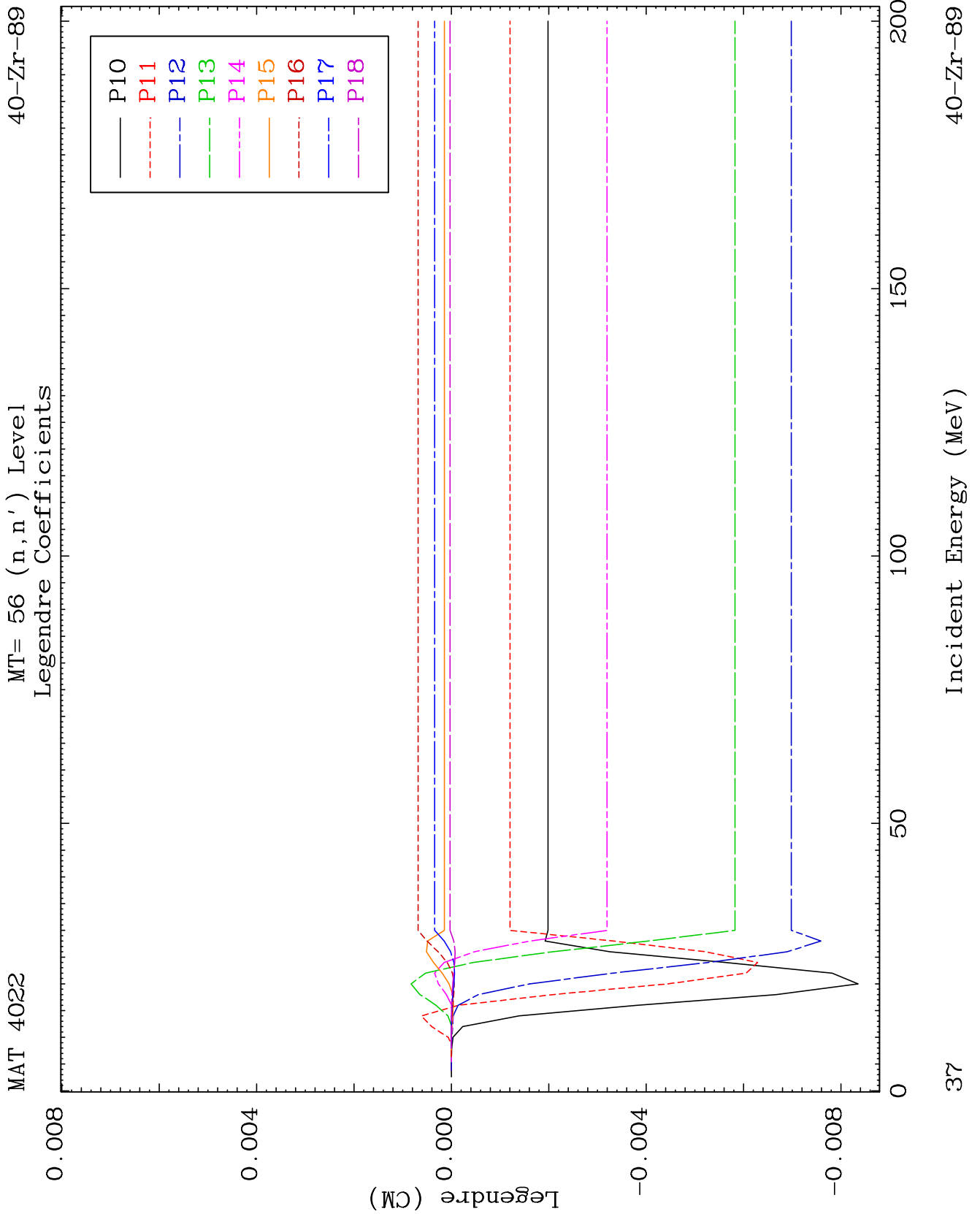
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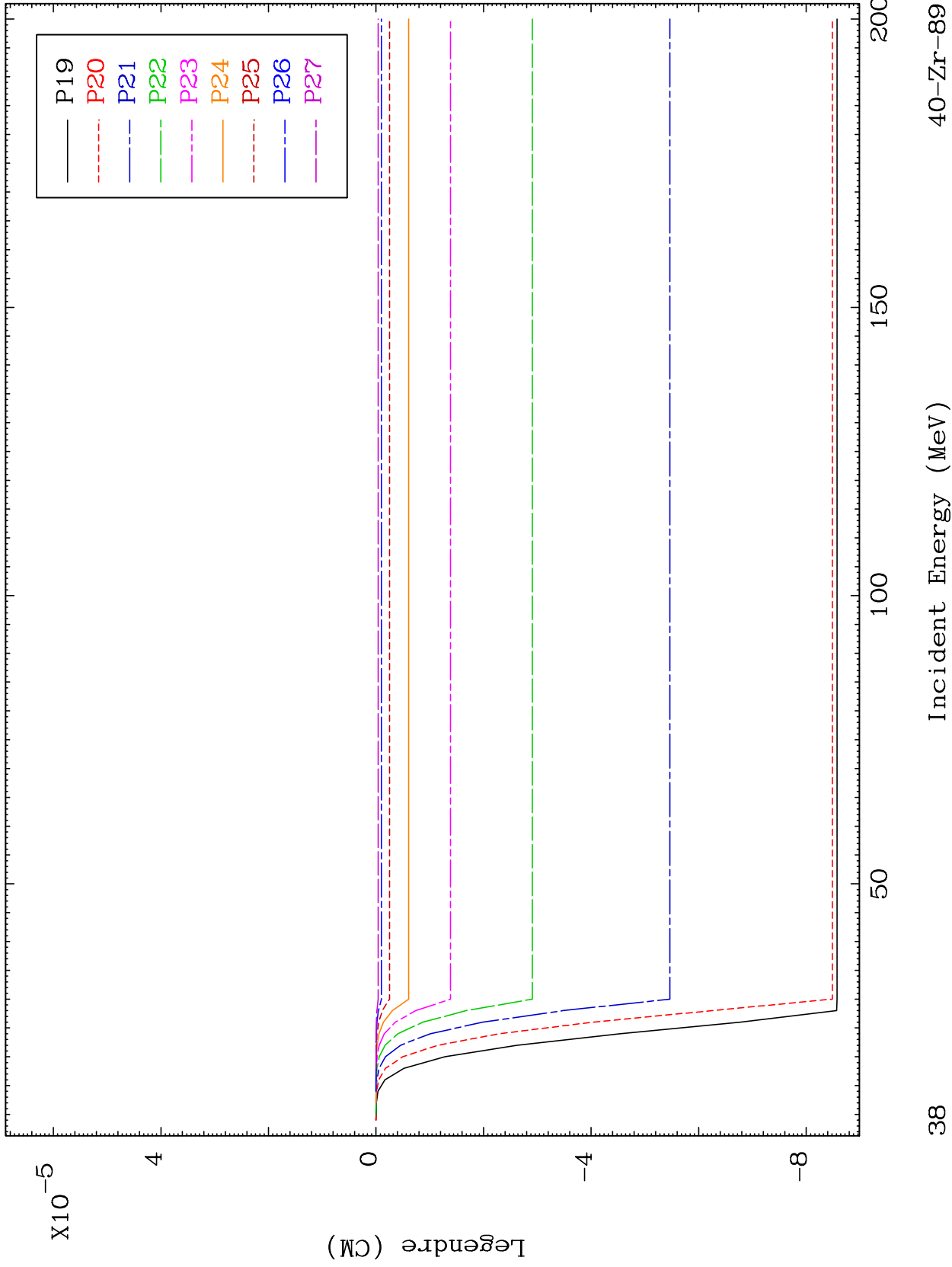


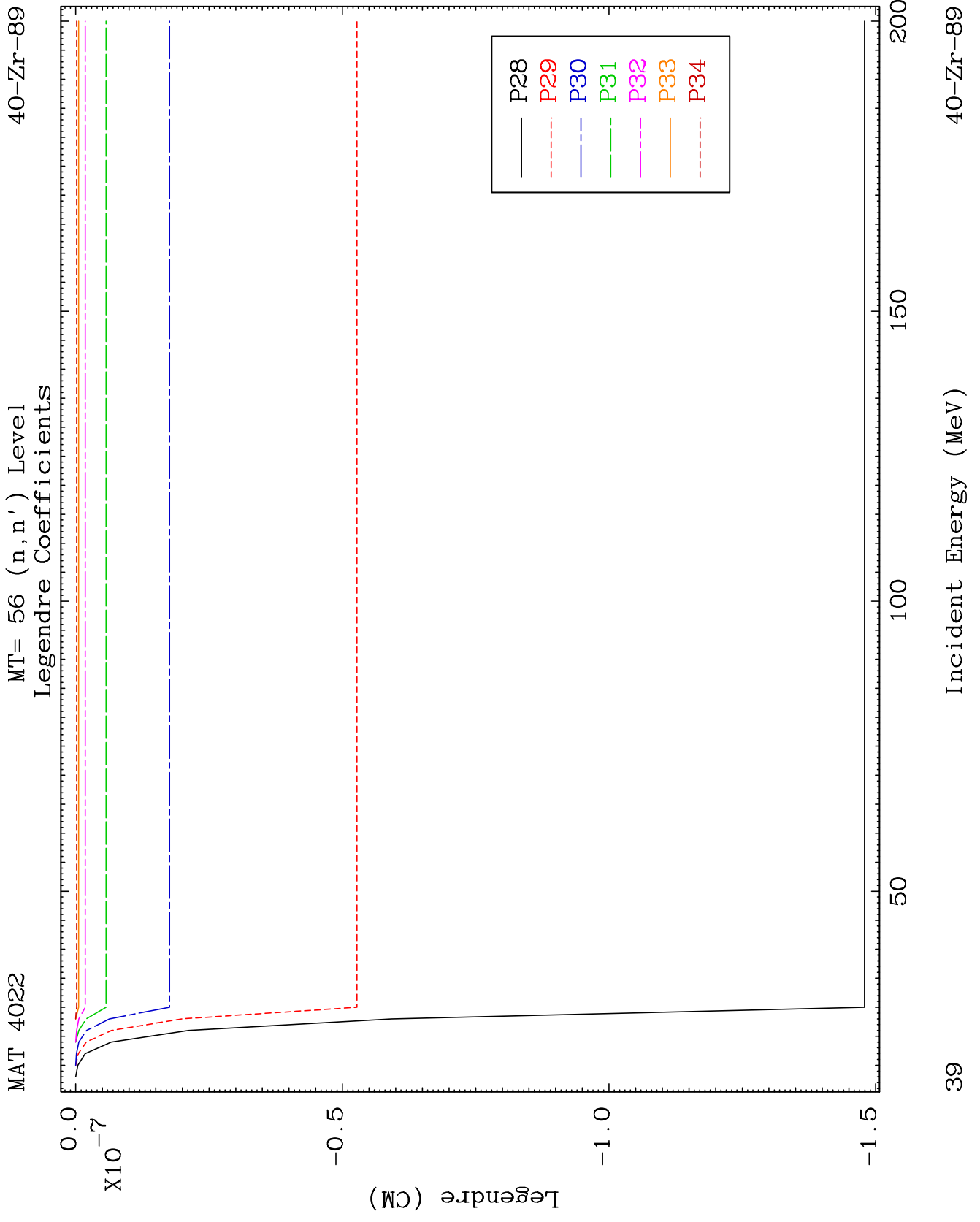


MAT 4022

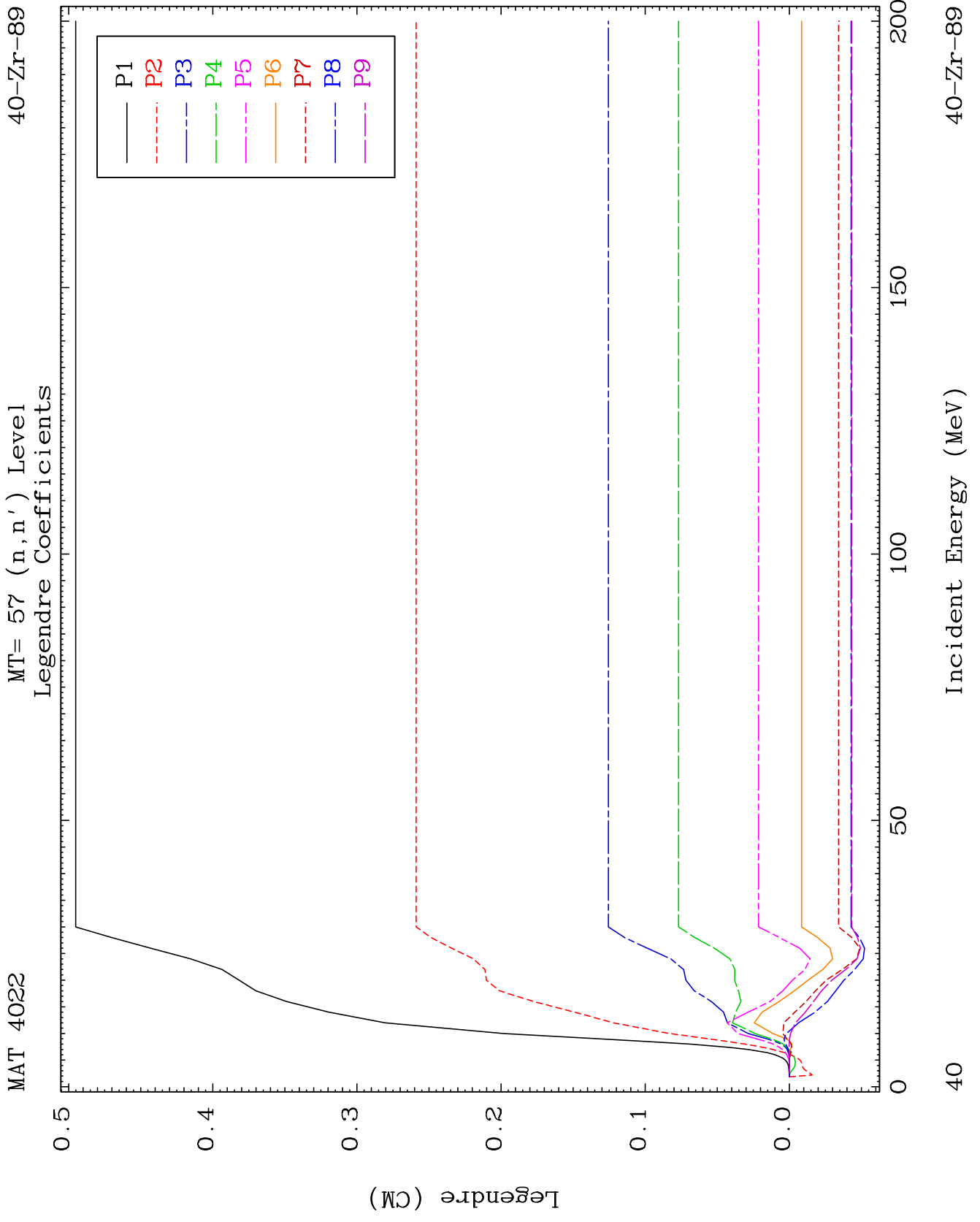
MT= 56 (n,n') Level  
Legendre Coefficients

40-Zr-89





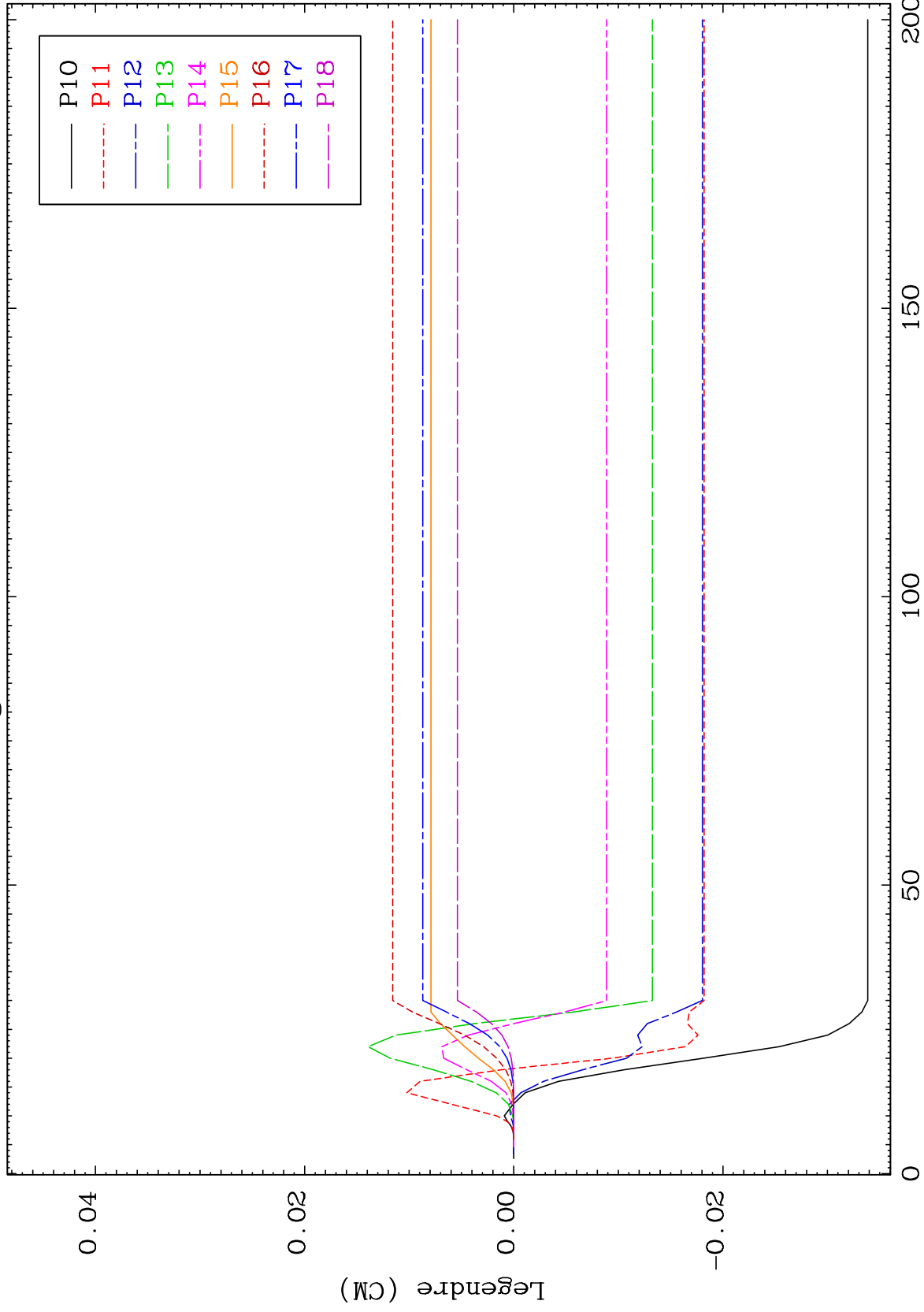




MAT 4022

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

40-Zr-89



41

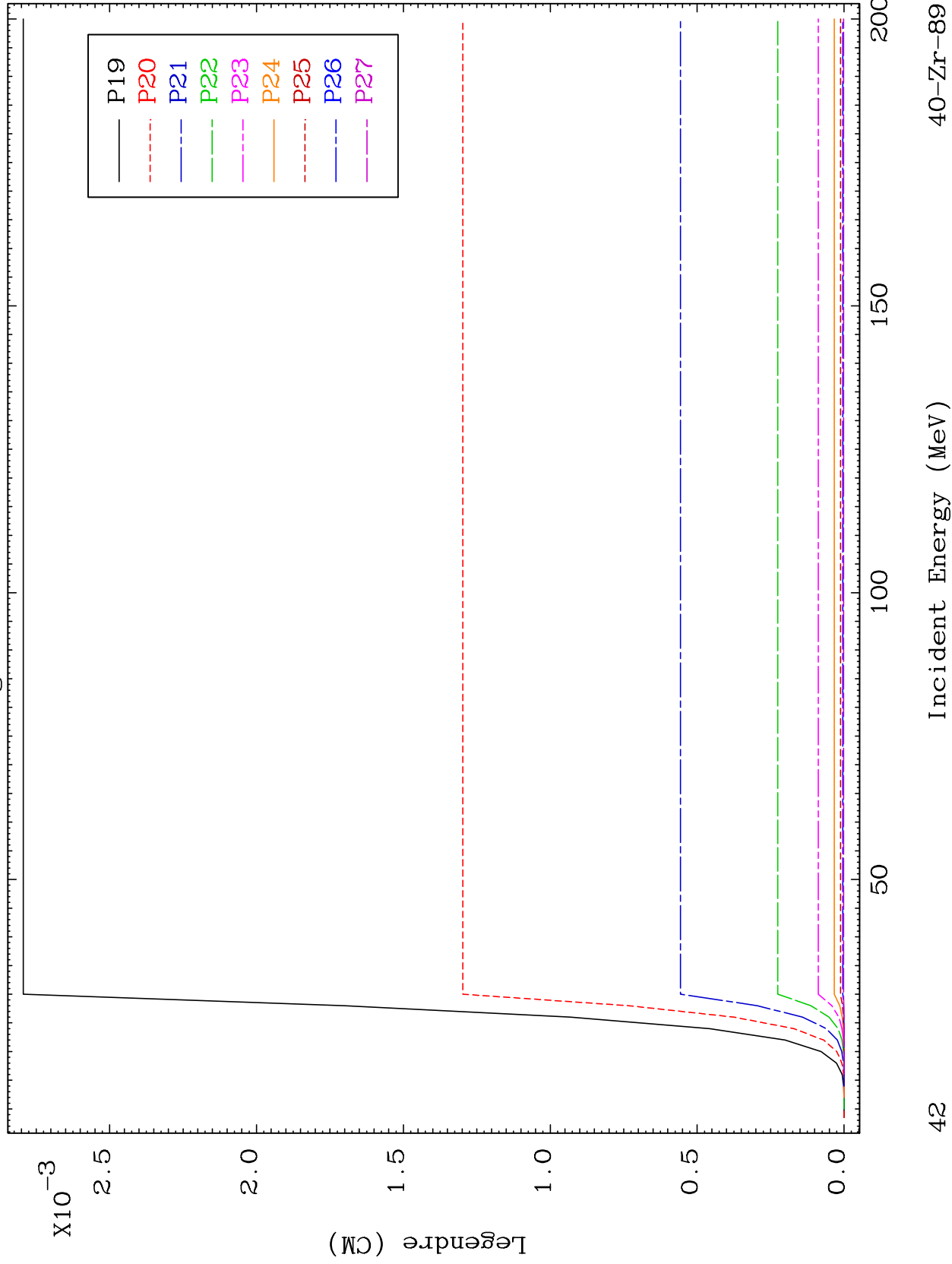
Incident Energy (MeV)

40-Zr-89

MAT 4022

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

40-Zr-89



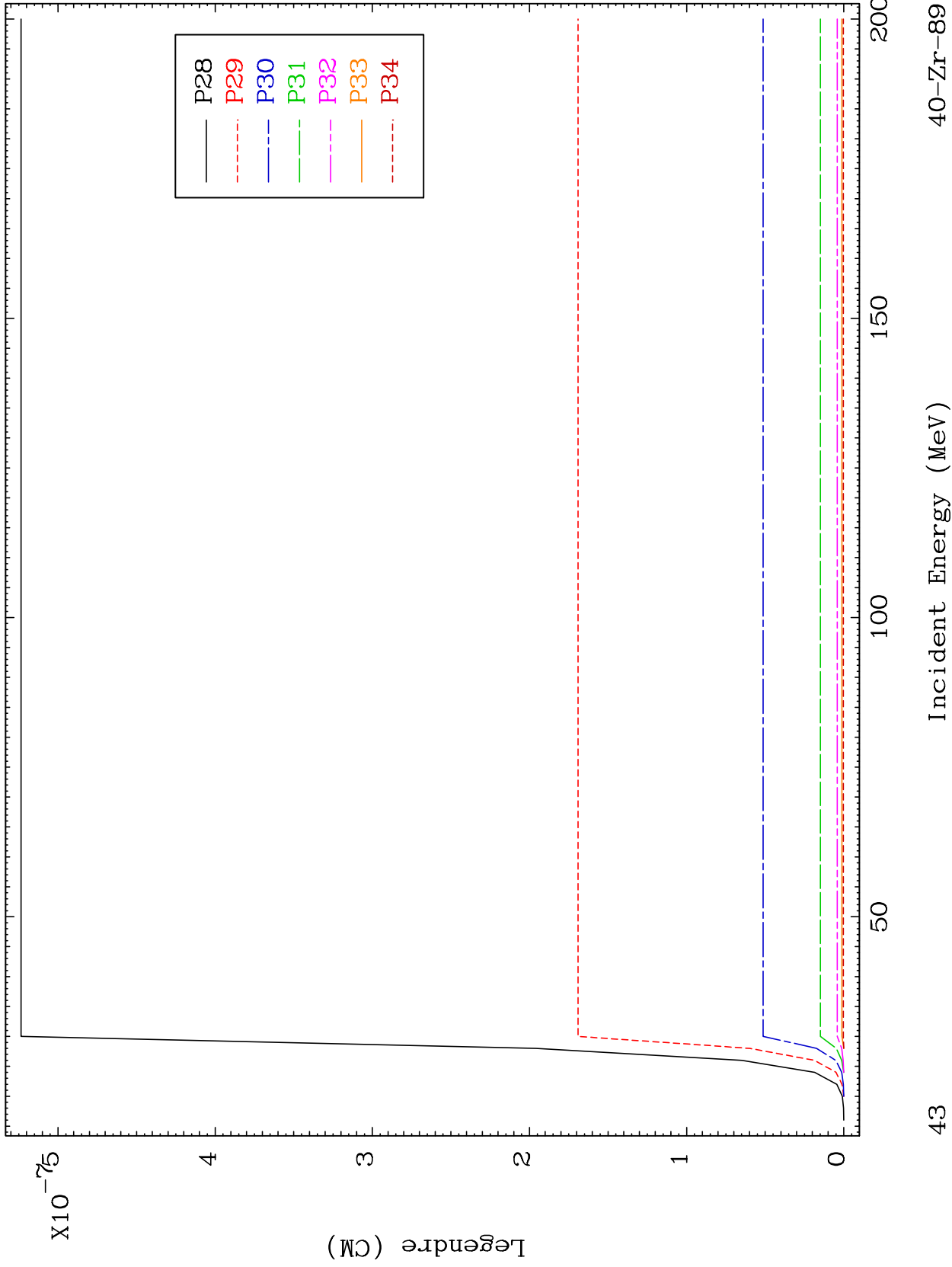
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40-Zr-89

MAT 4022

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

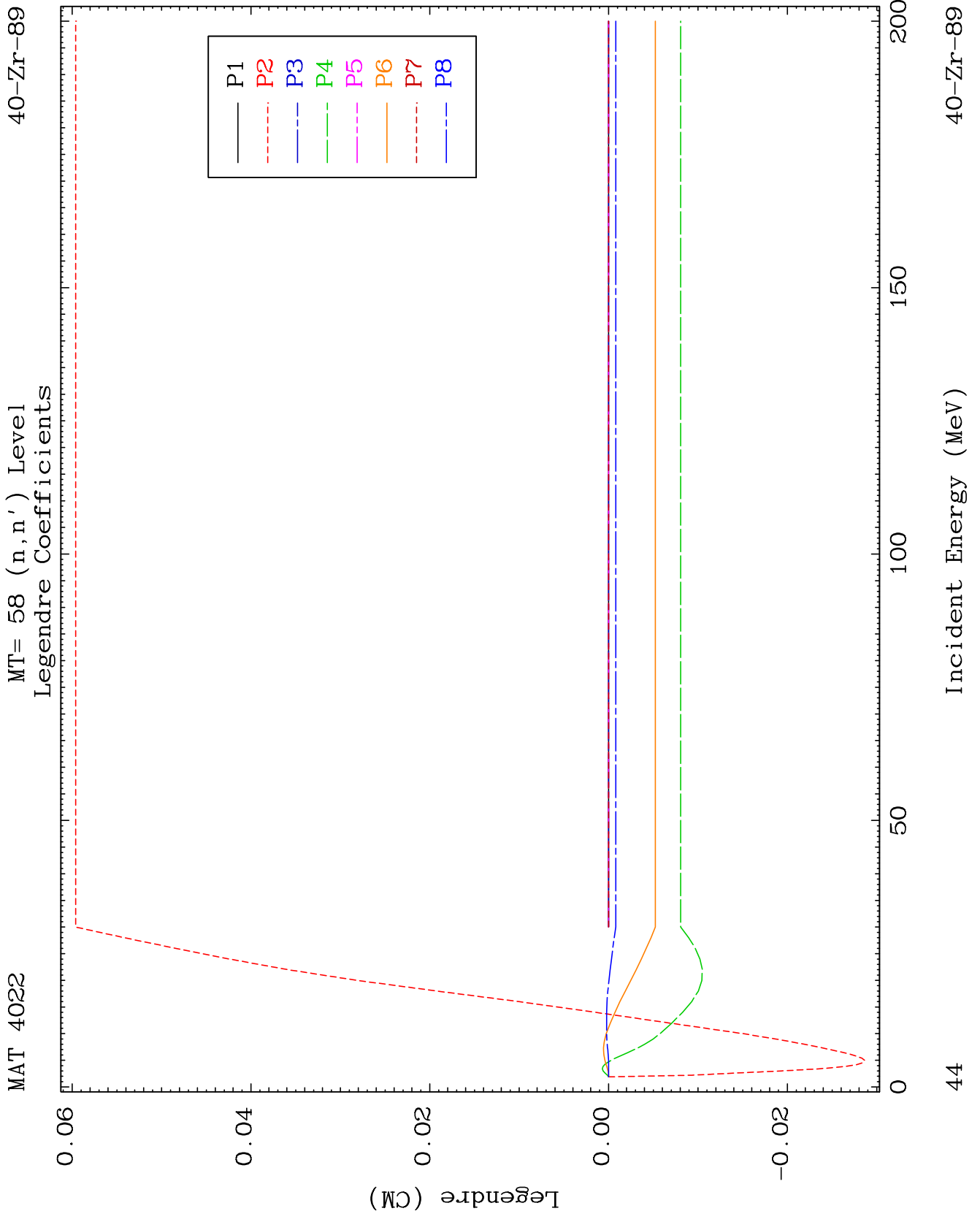
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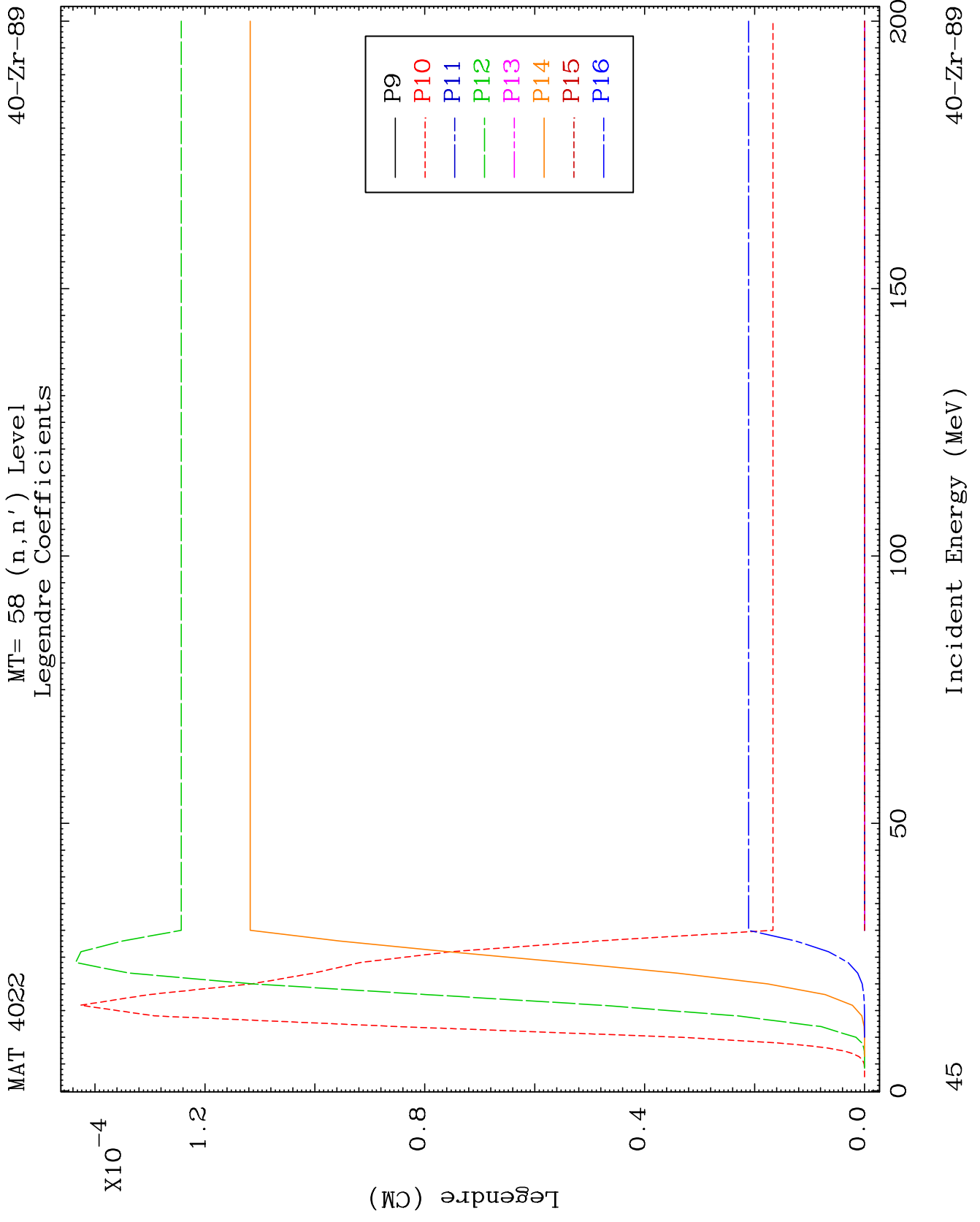


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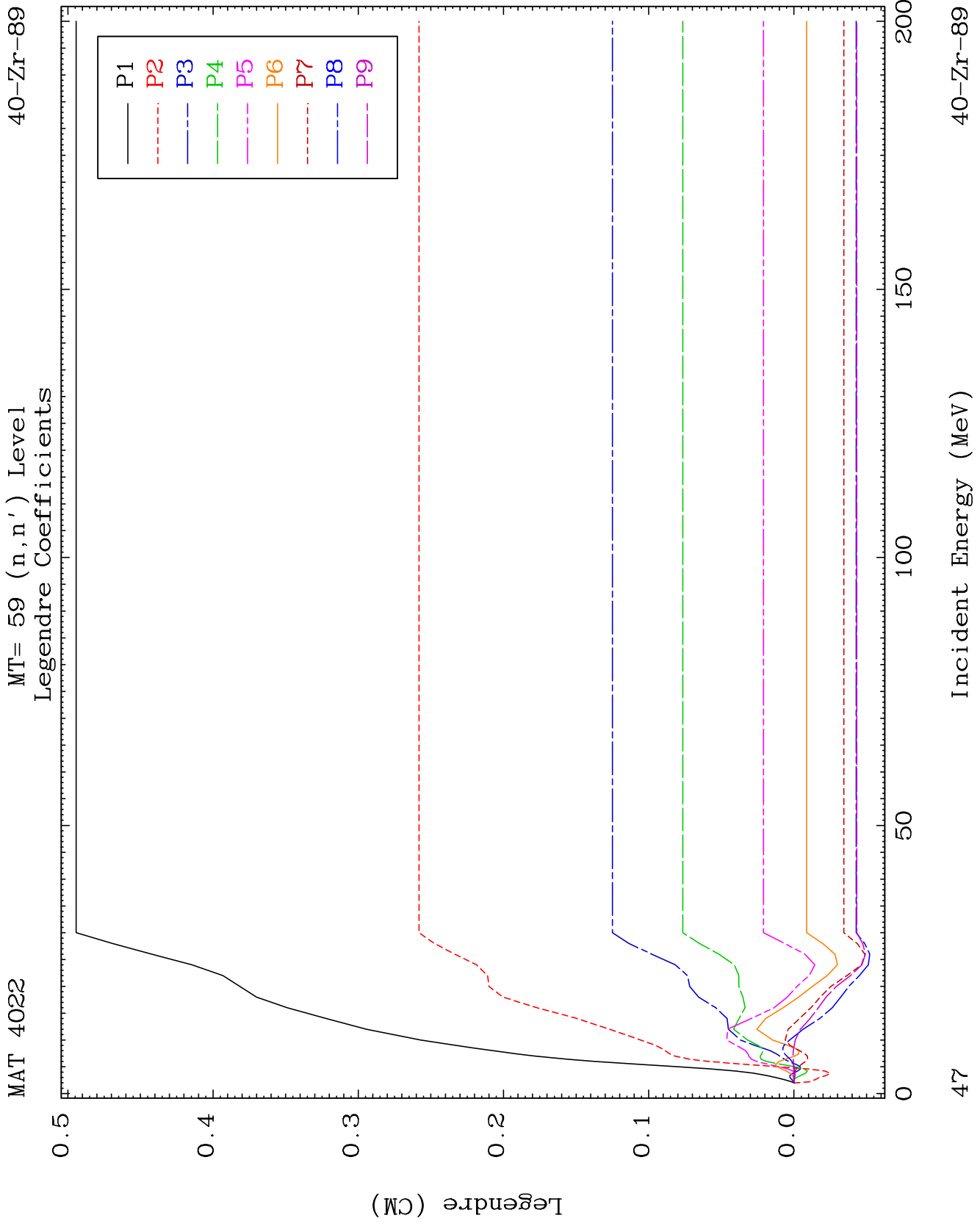
Incident Energy (MeV)

40-Zr-89

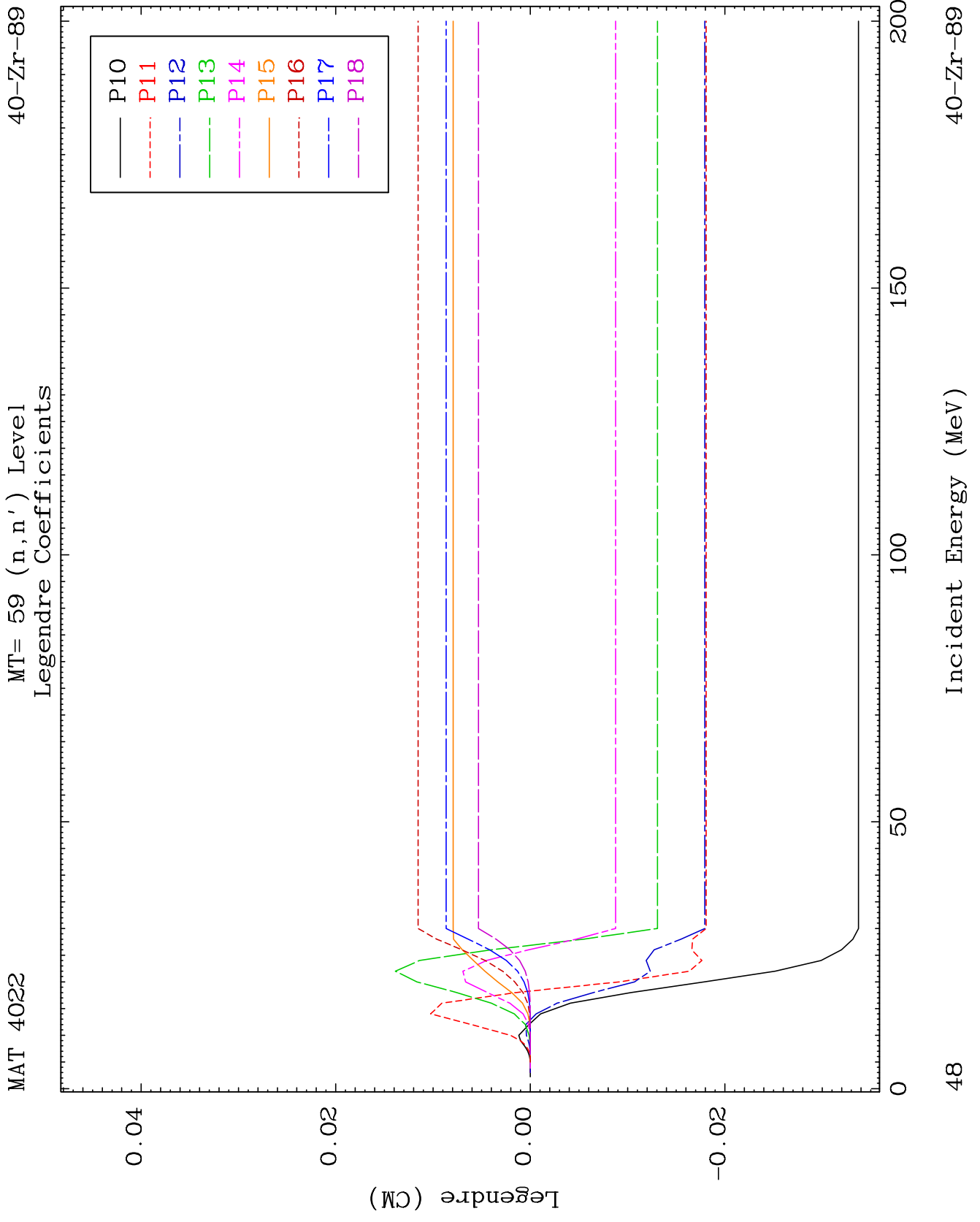








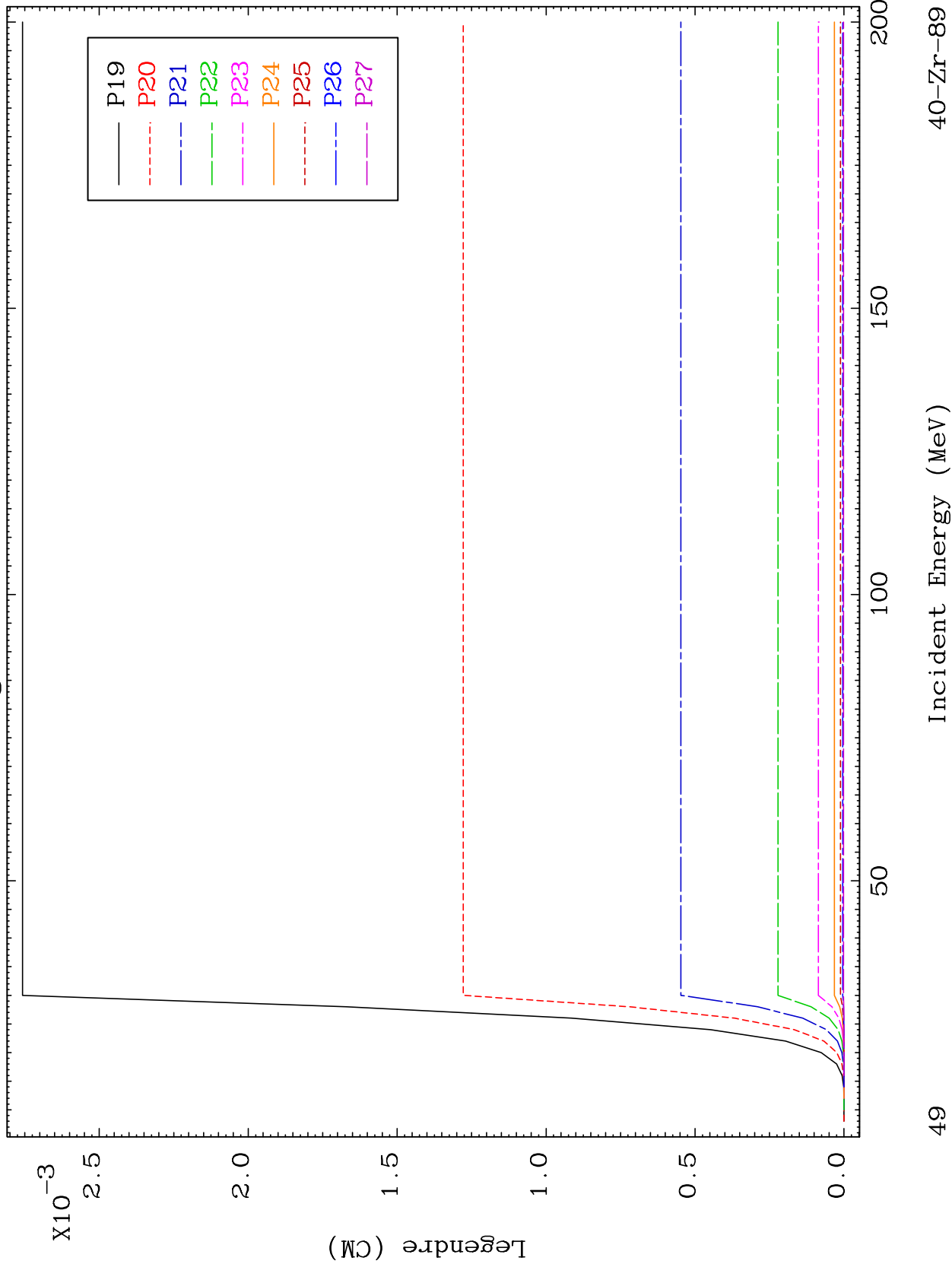




MAT 4022

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

40-Zr-89



49

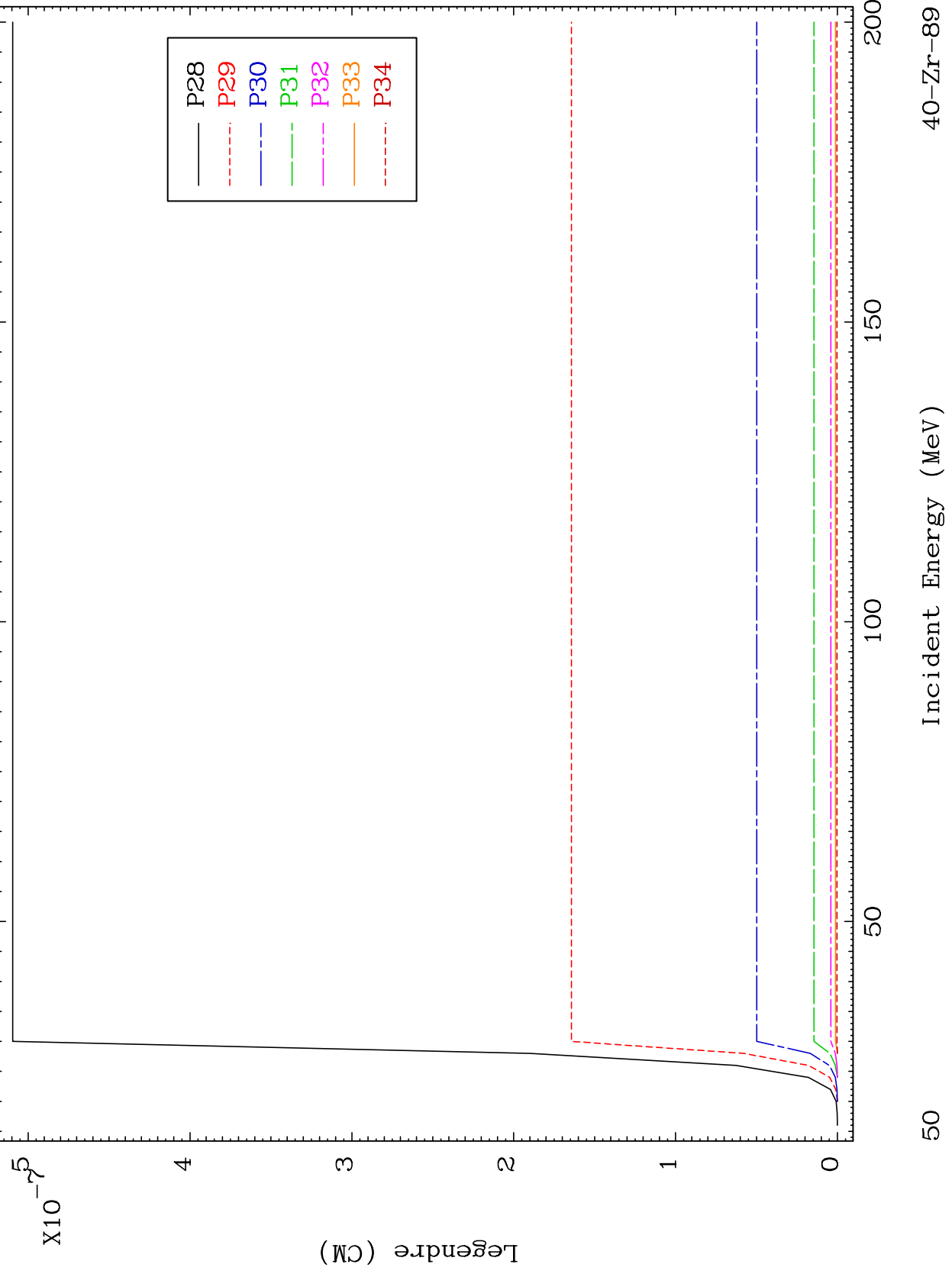
Incident Energy (MeV)

40-Zr-89

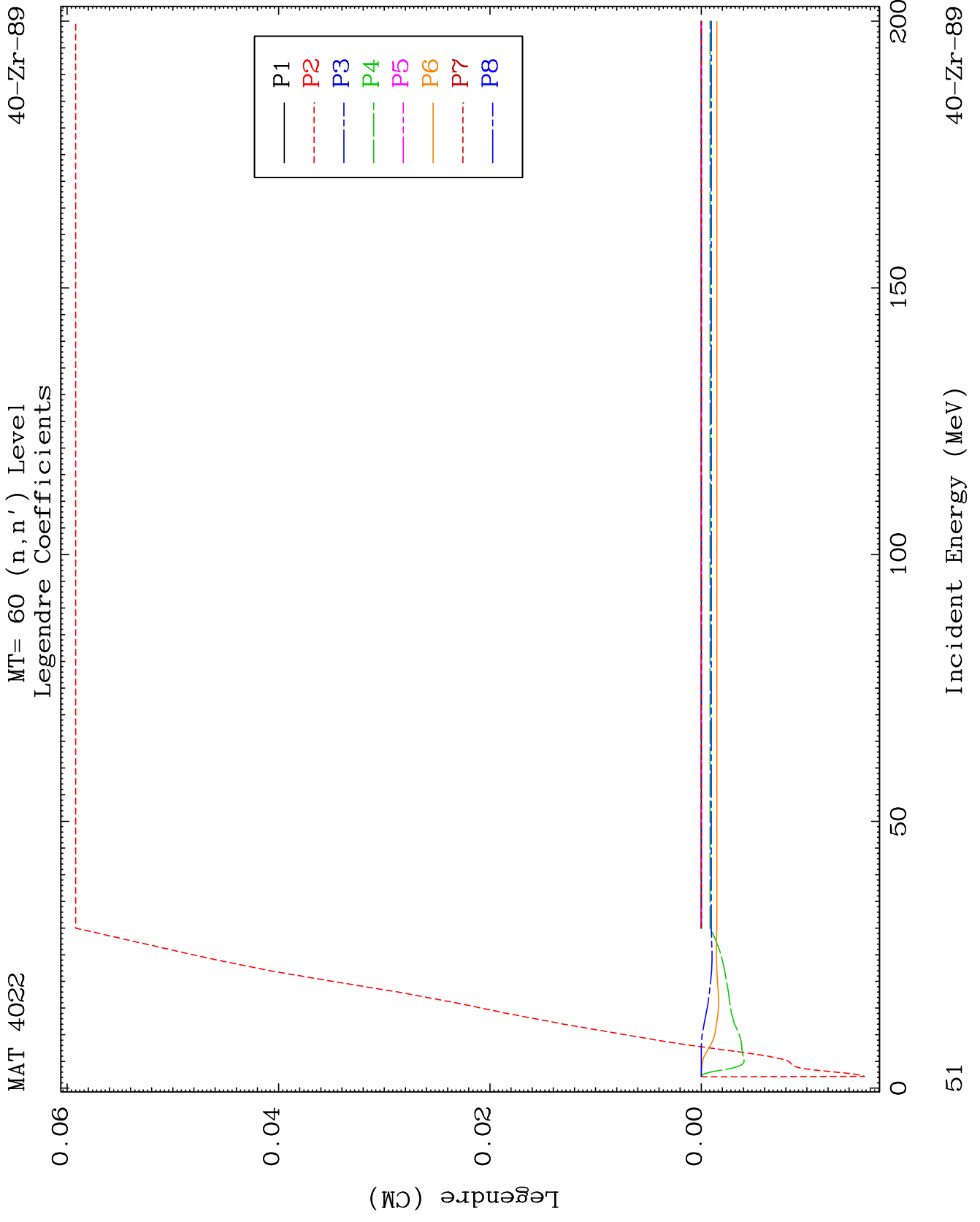
MAT 4022

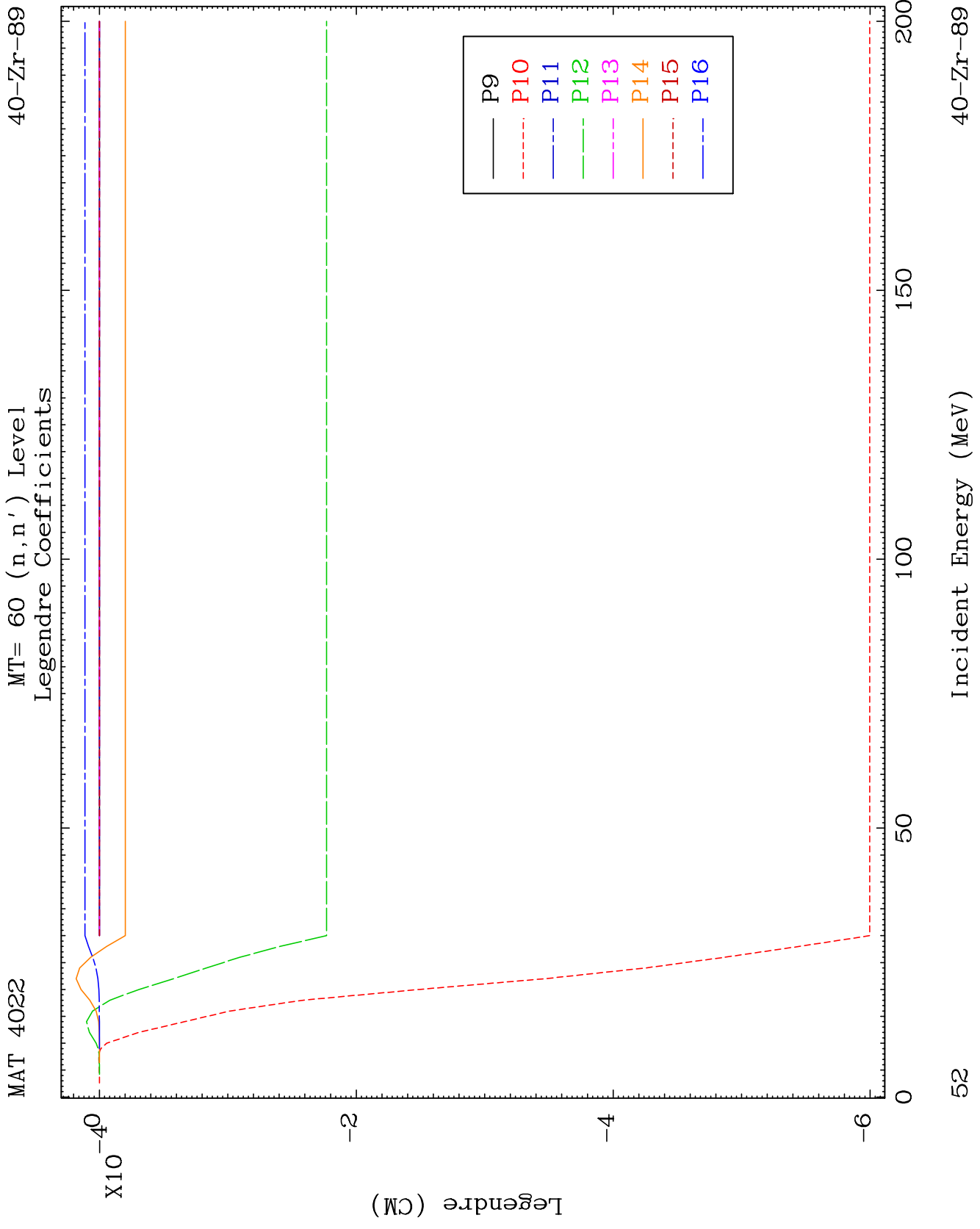
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Legendre Coefficients

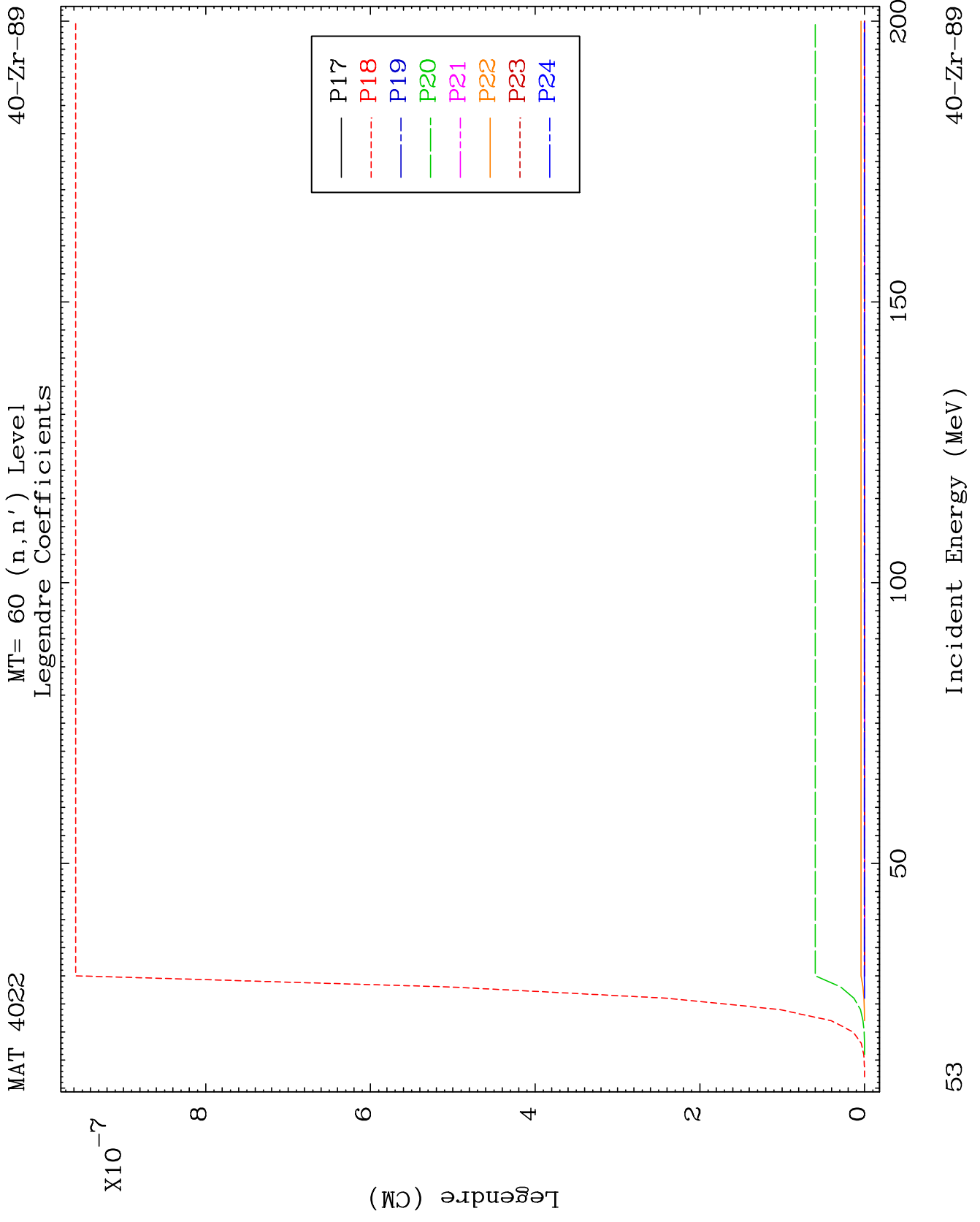
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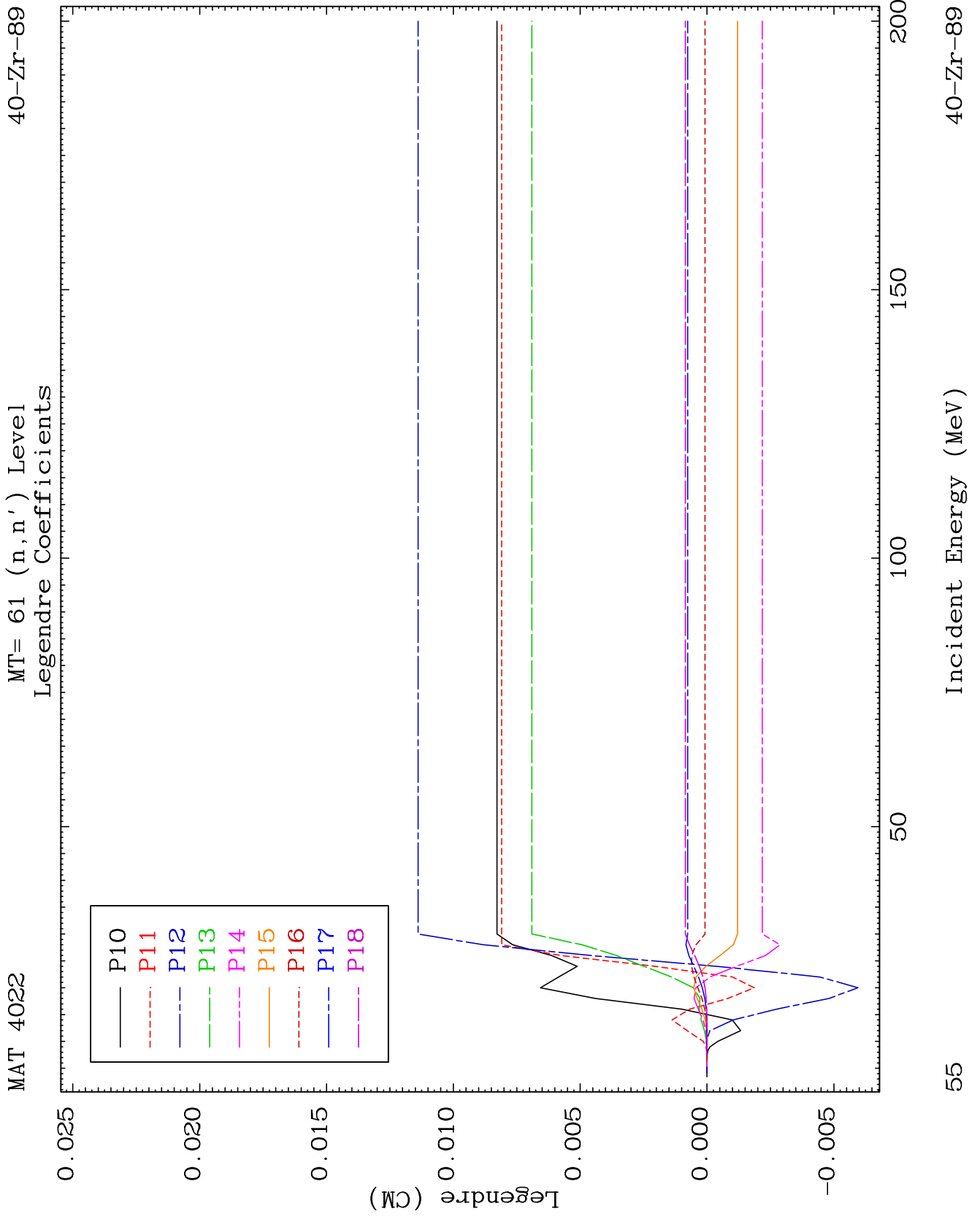
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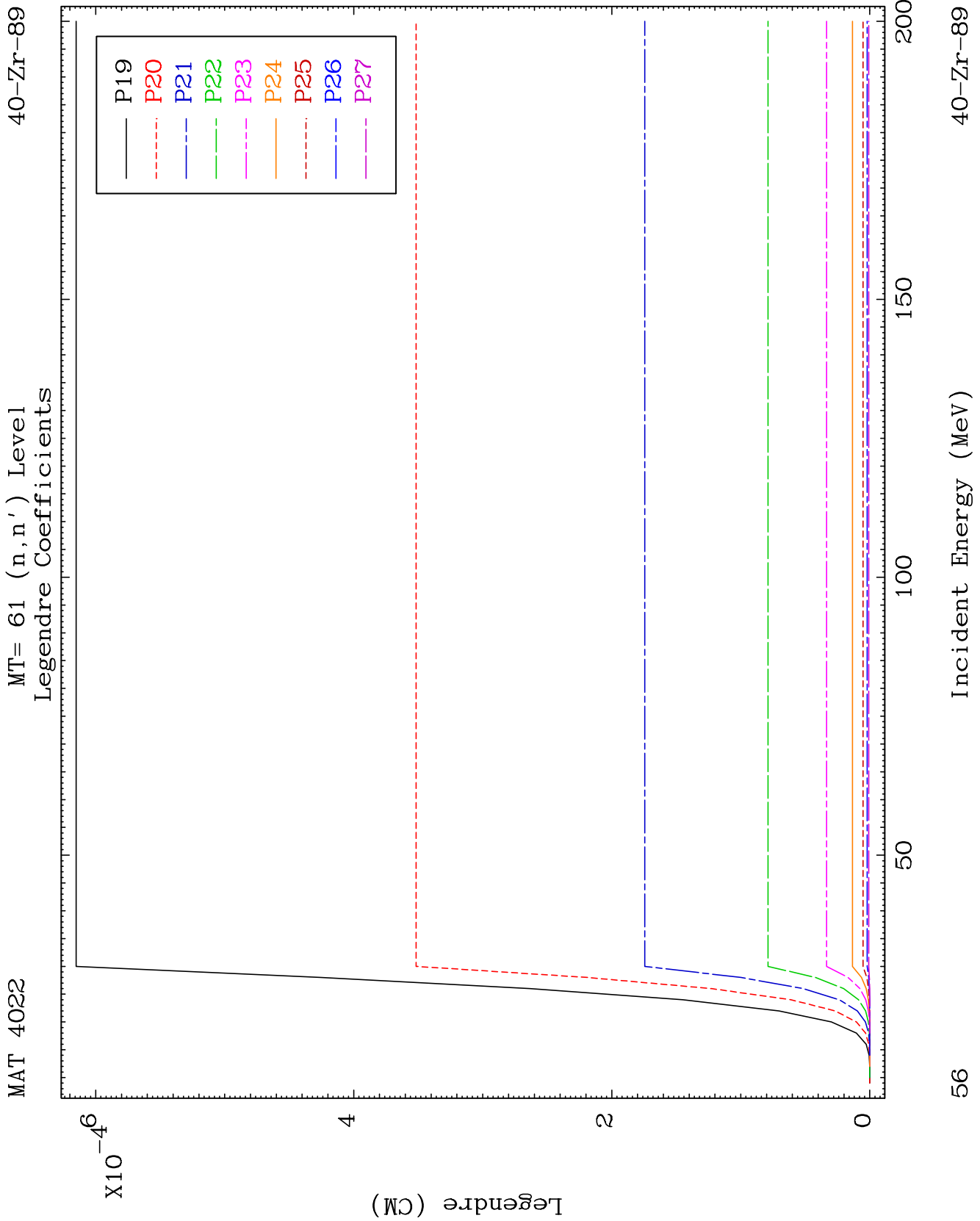








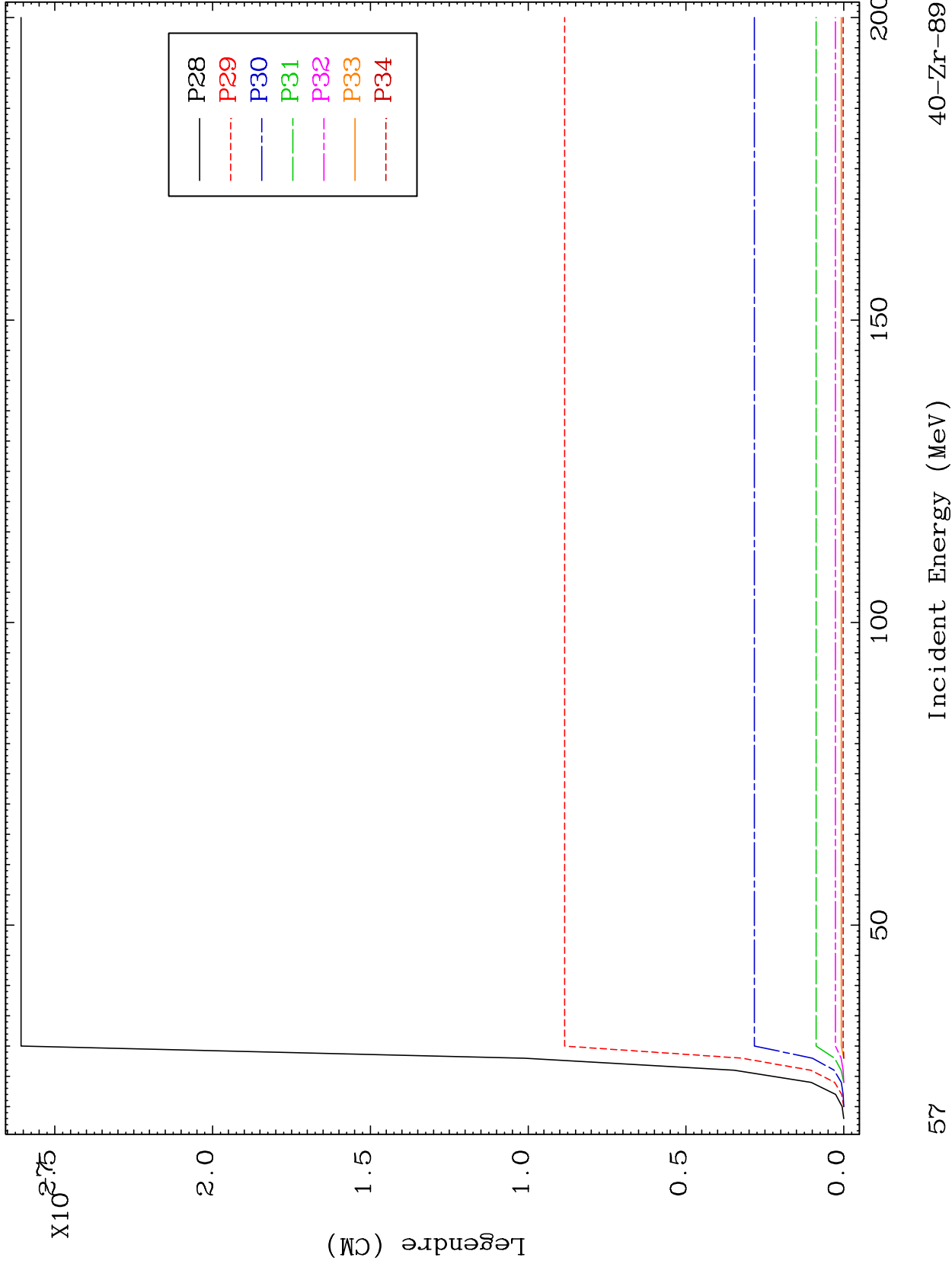




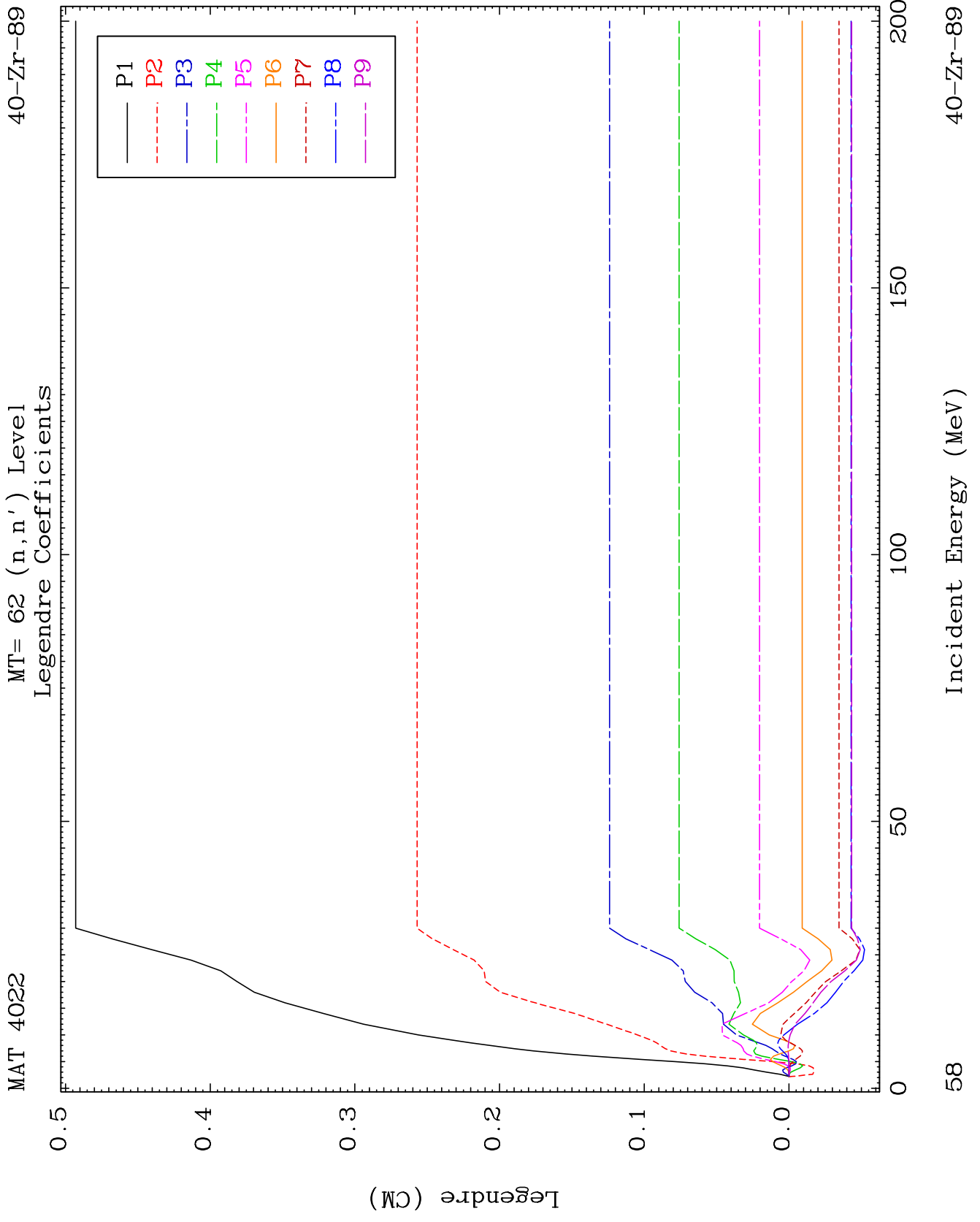
MAT 4022

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

40-Zr-89



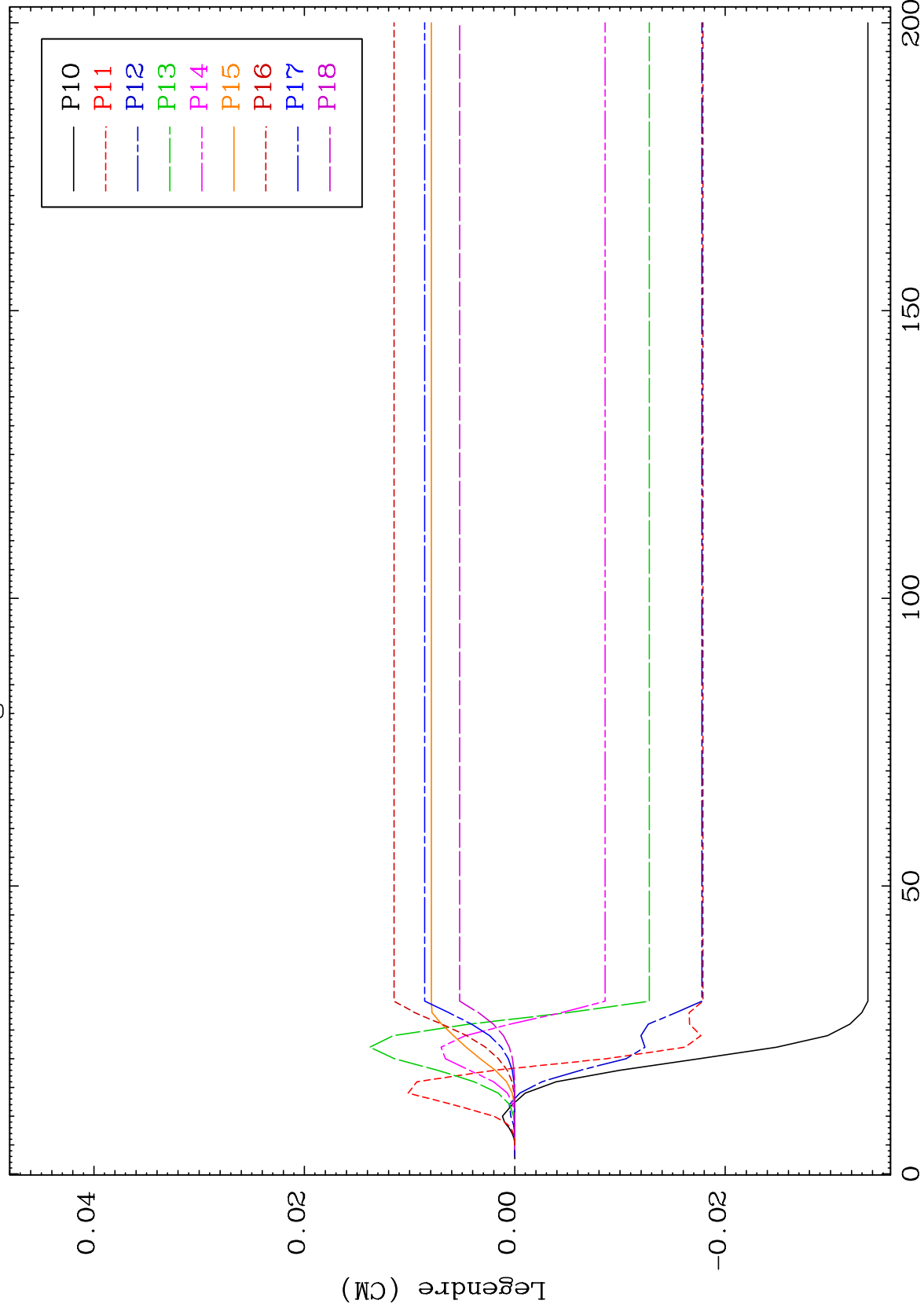
57



MAT 4022

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

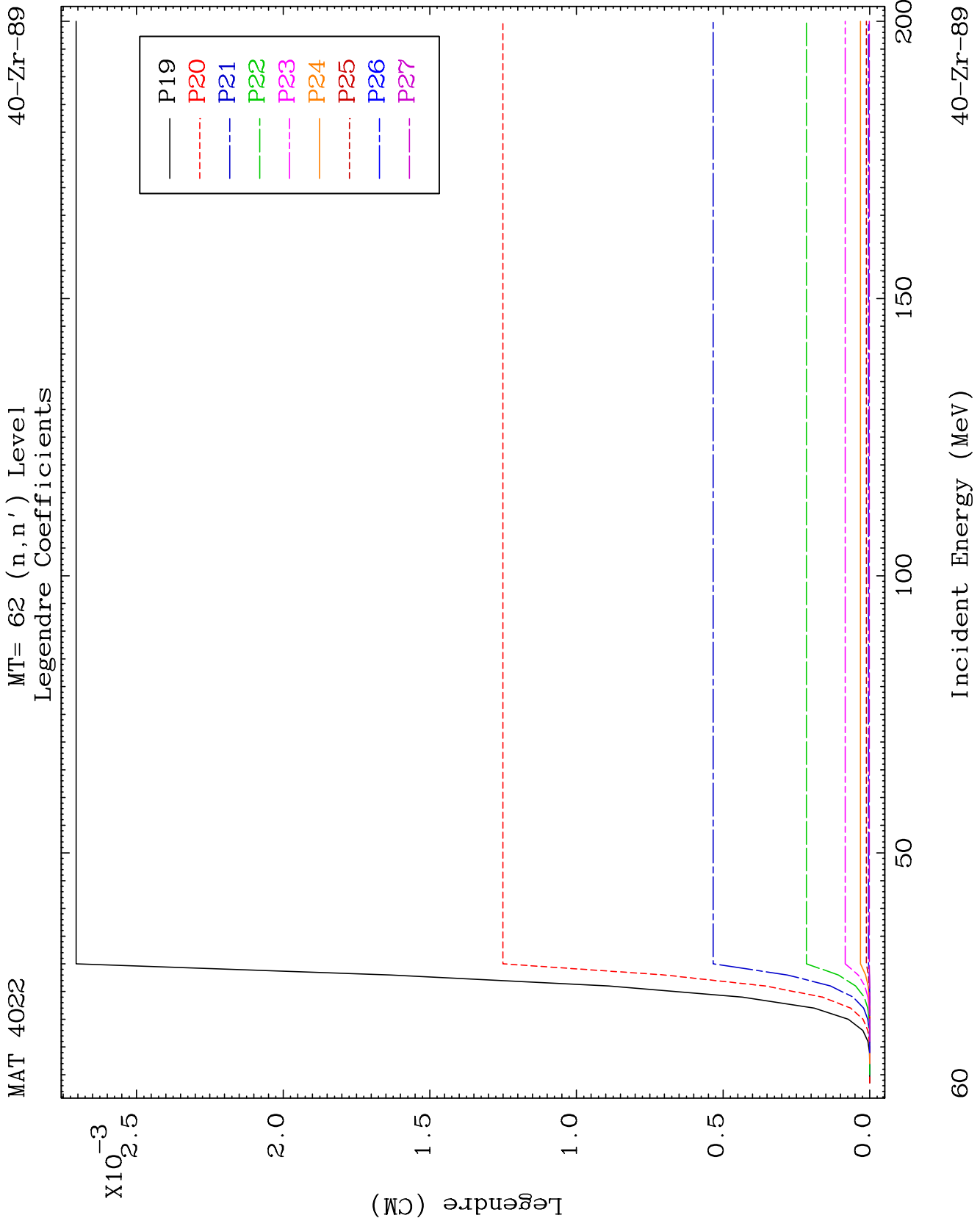
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59

Incident Energy (MeV)

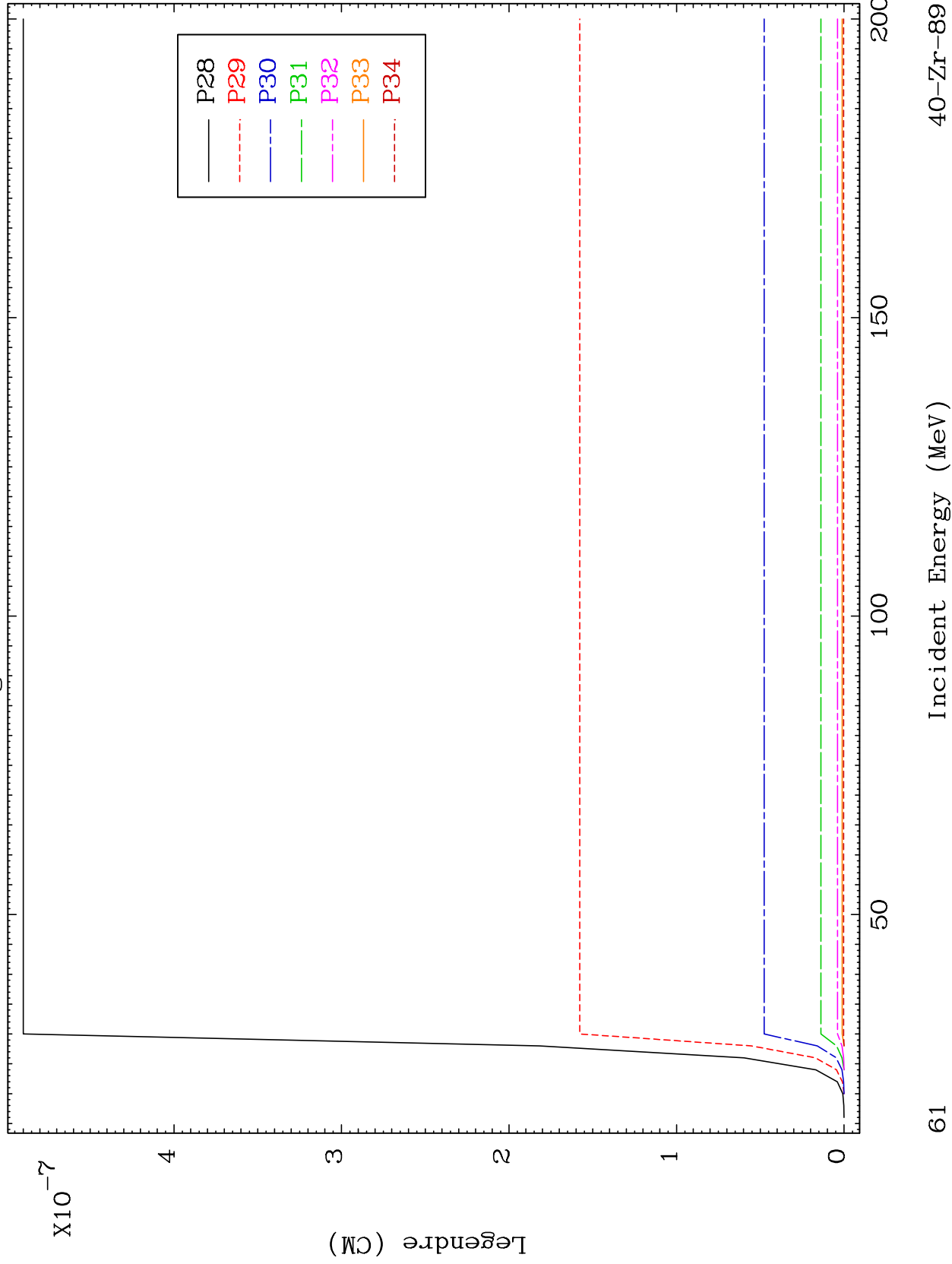
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MAT 4022

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

40-Zr-89

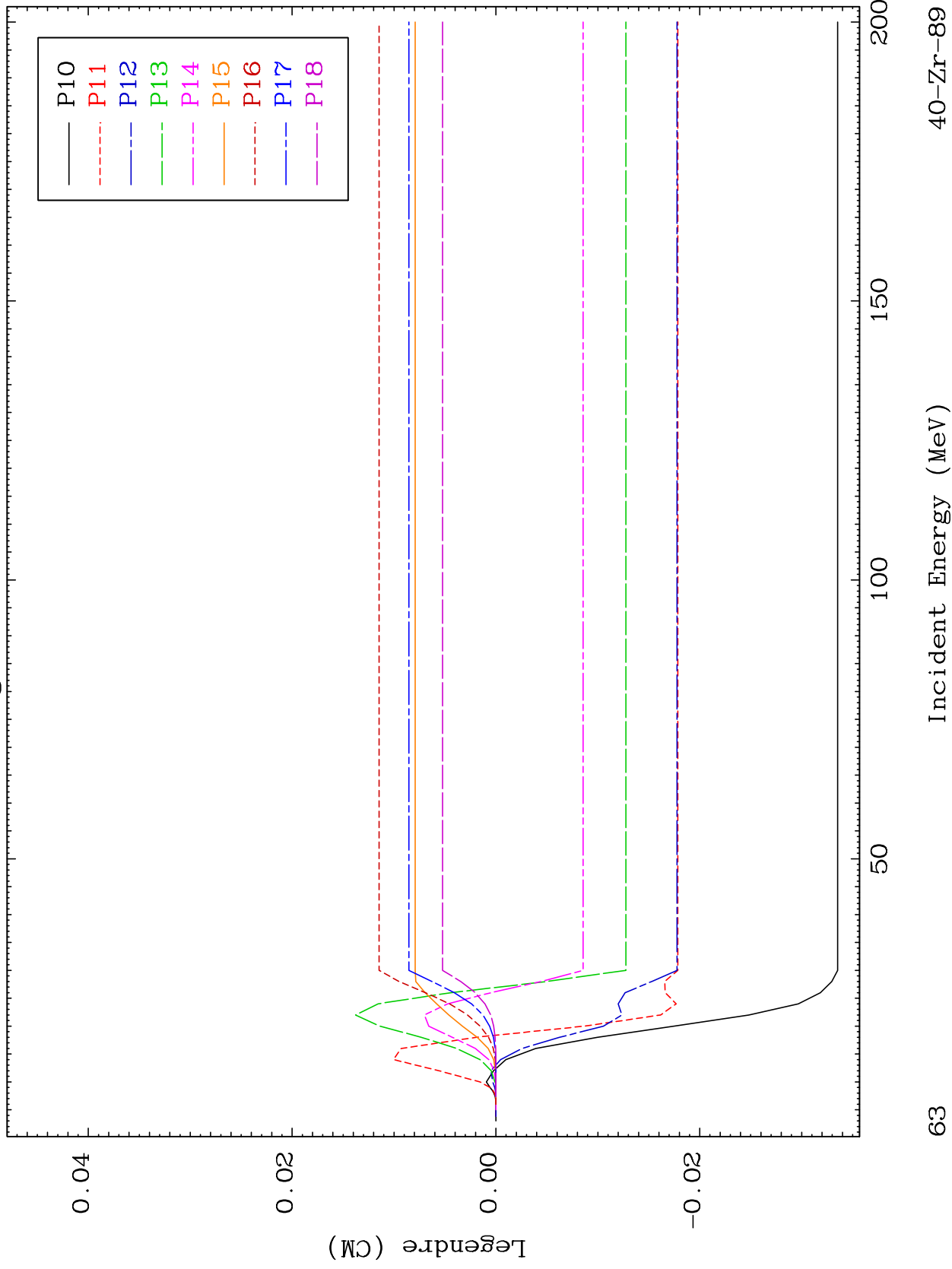




MAT 4022

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

40-Zr-89



63

Incident Energy (MeV)

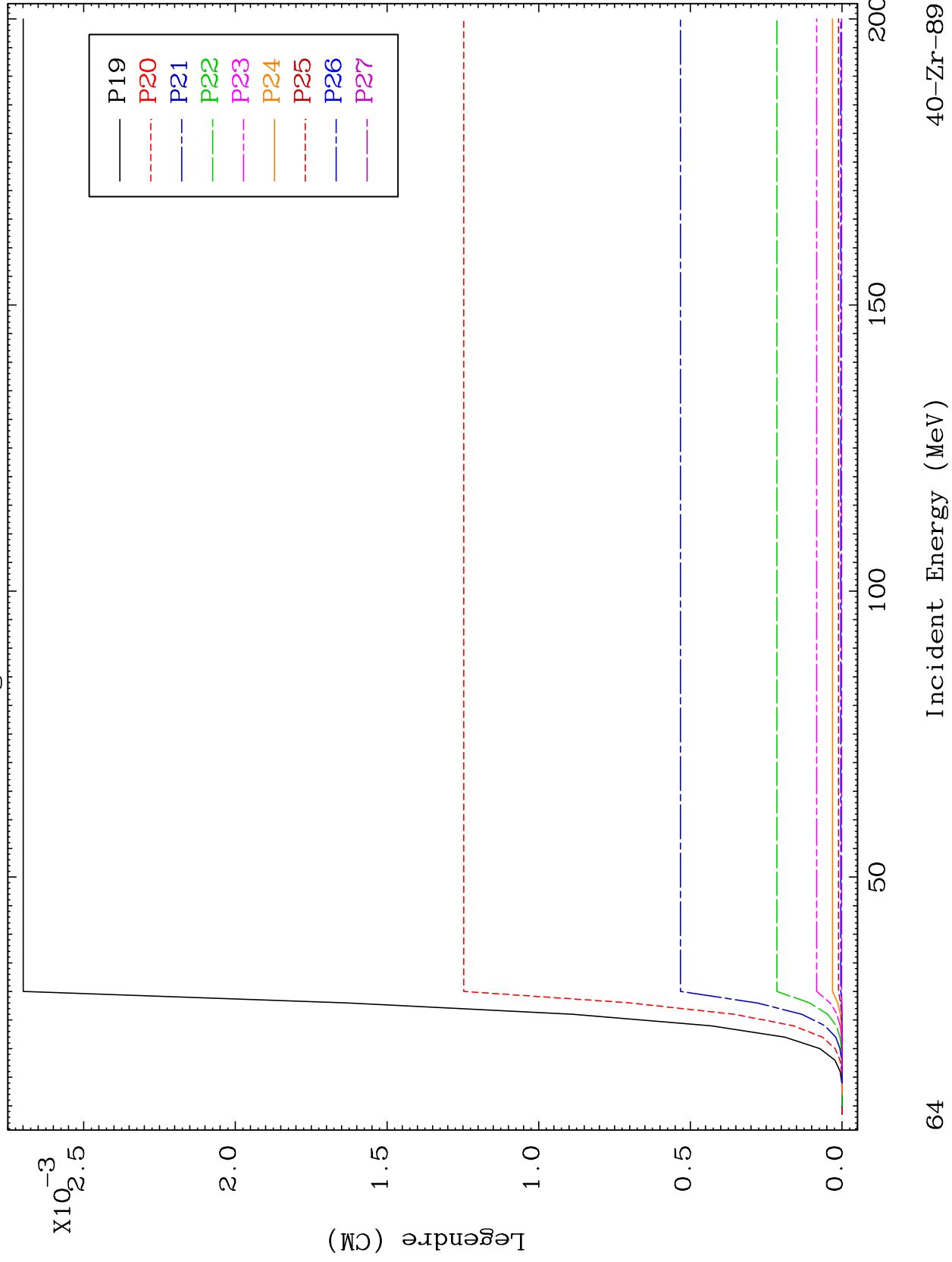
40-Zr-89



MAT 4022

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

40-Zr-89



64

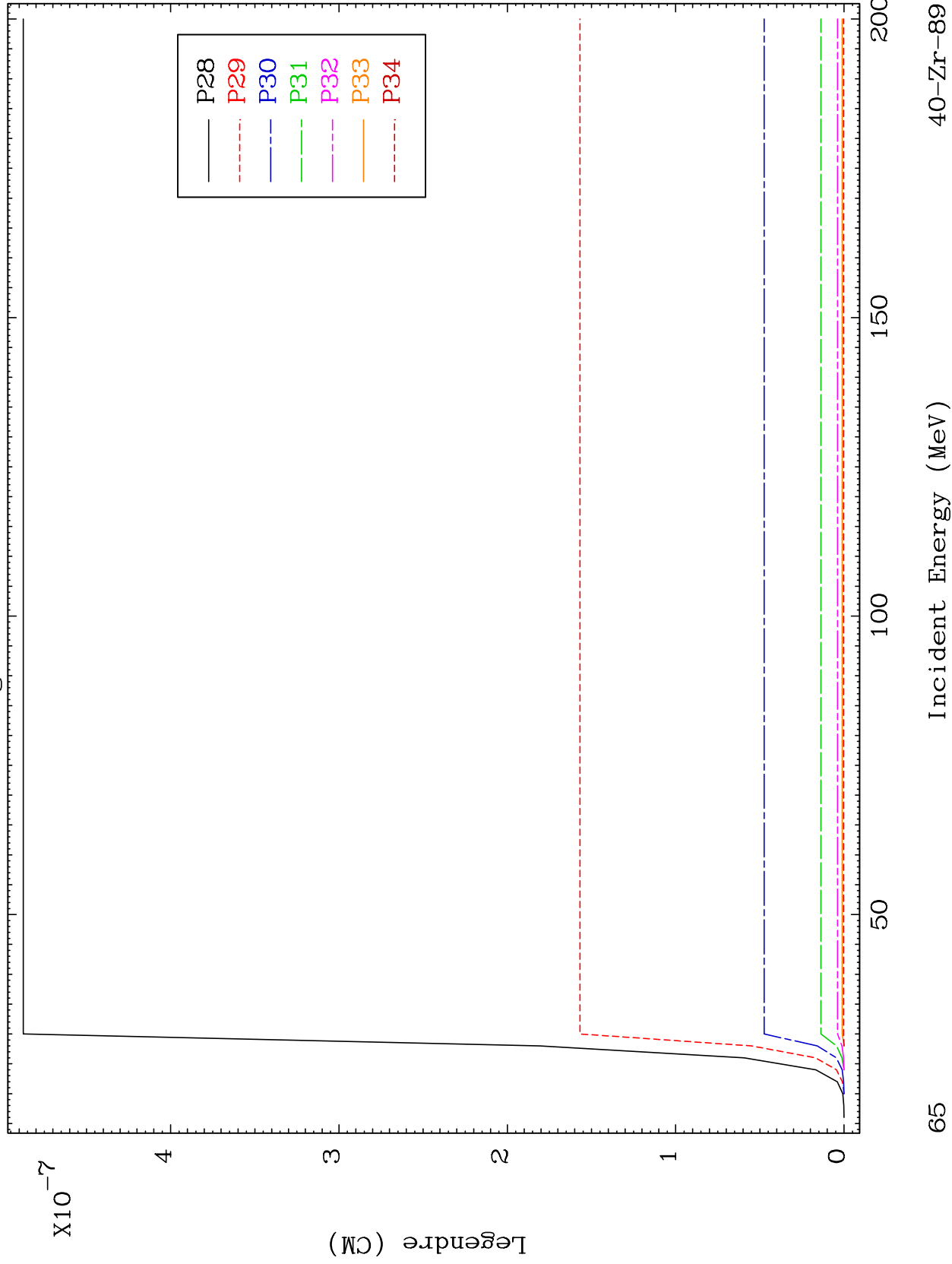
Incident Energy (MeV)

40-Zr-89

MAT 4022

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

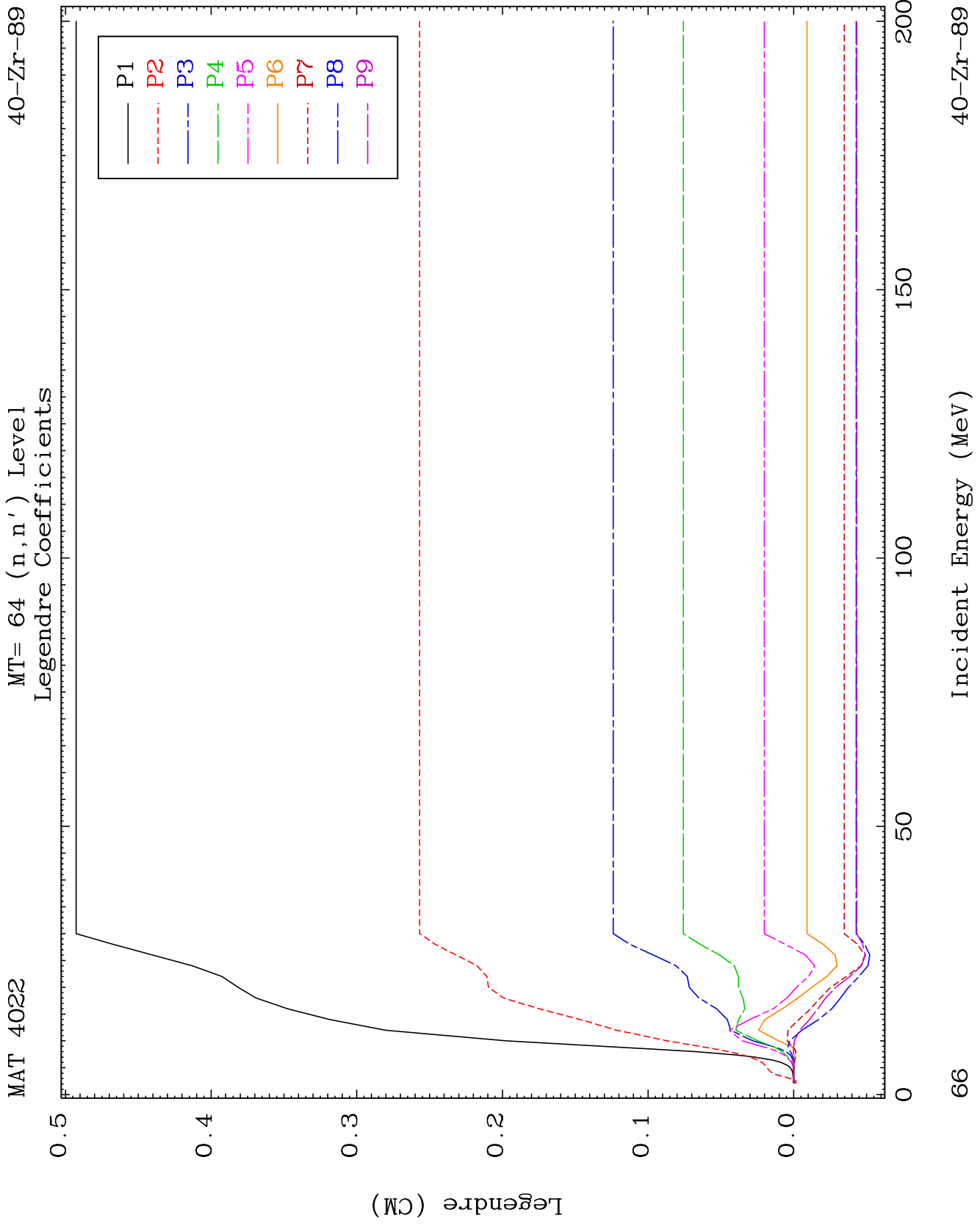
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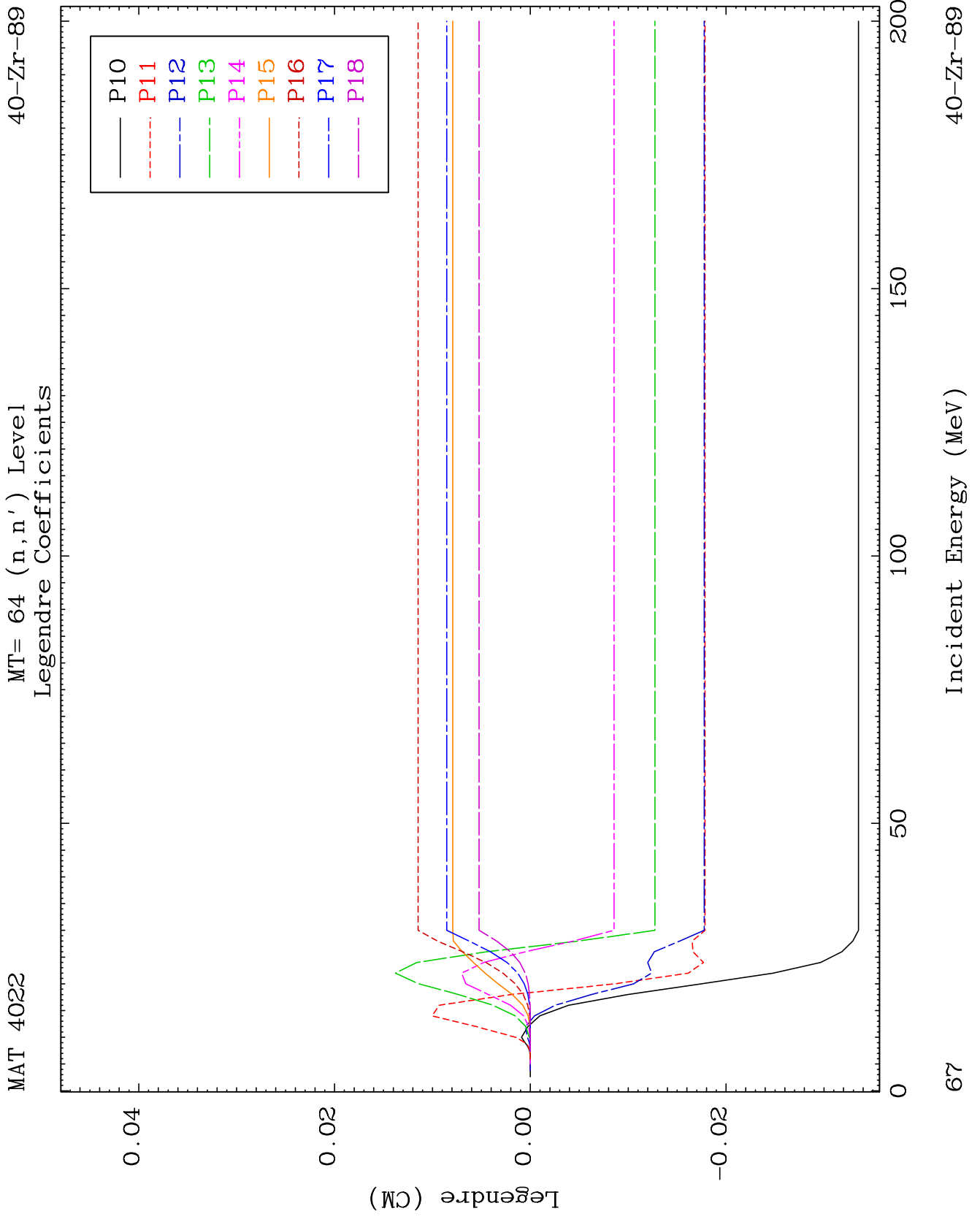


65

Incident Energy (MeV)

40-Zr-89

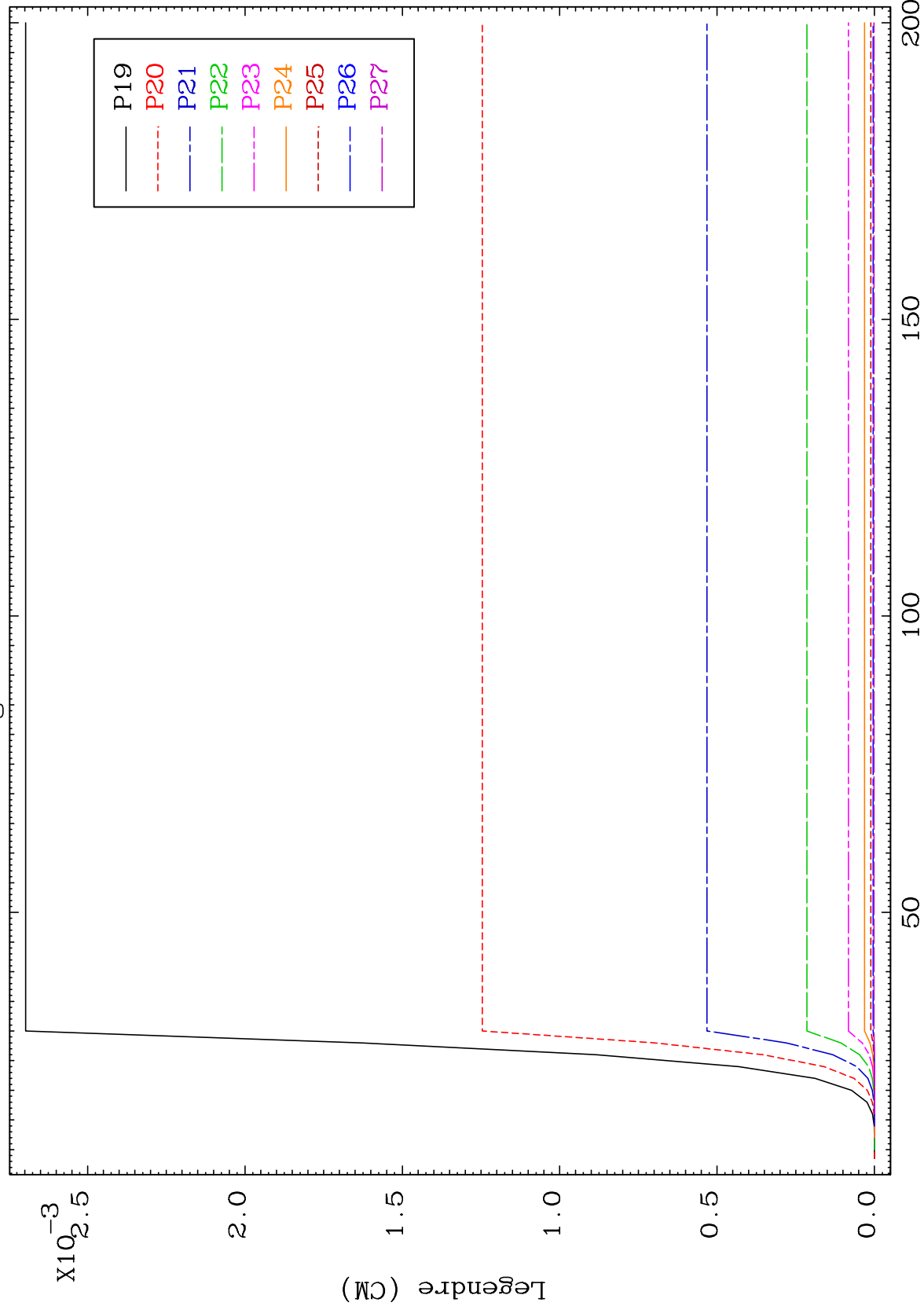




MAT 4022

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

40-Zr-89



40-Zr-89

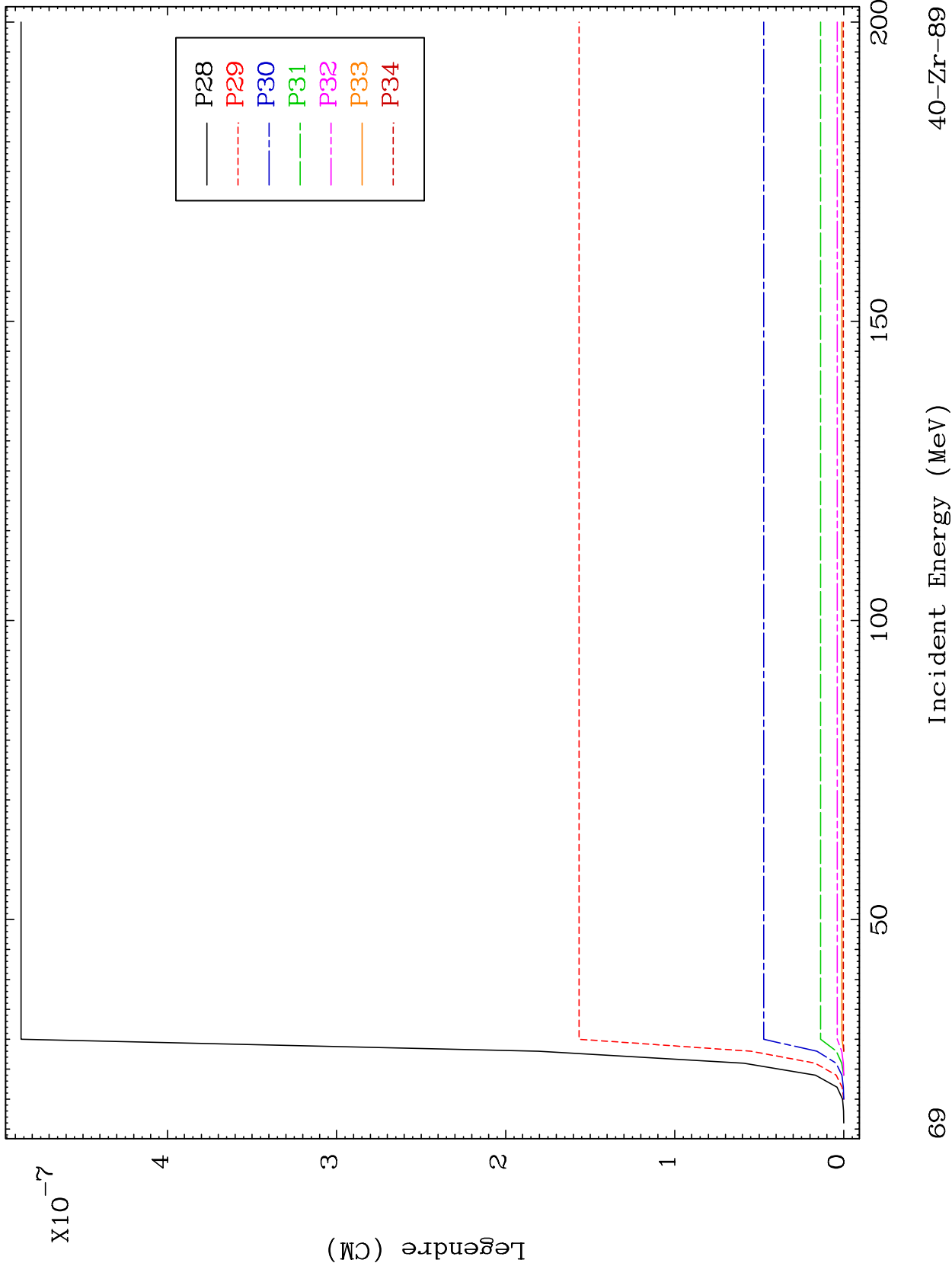
Incident Energy (MeV)

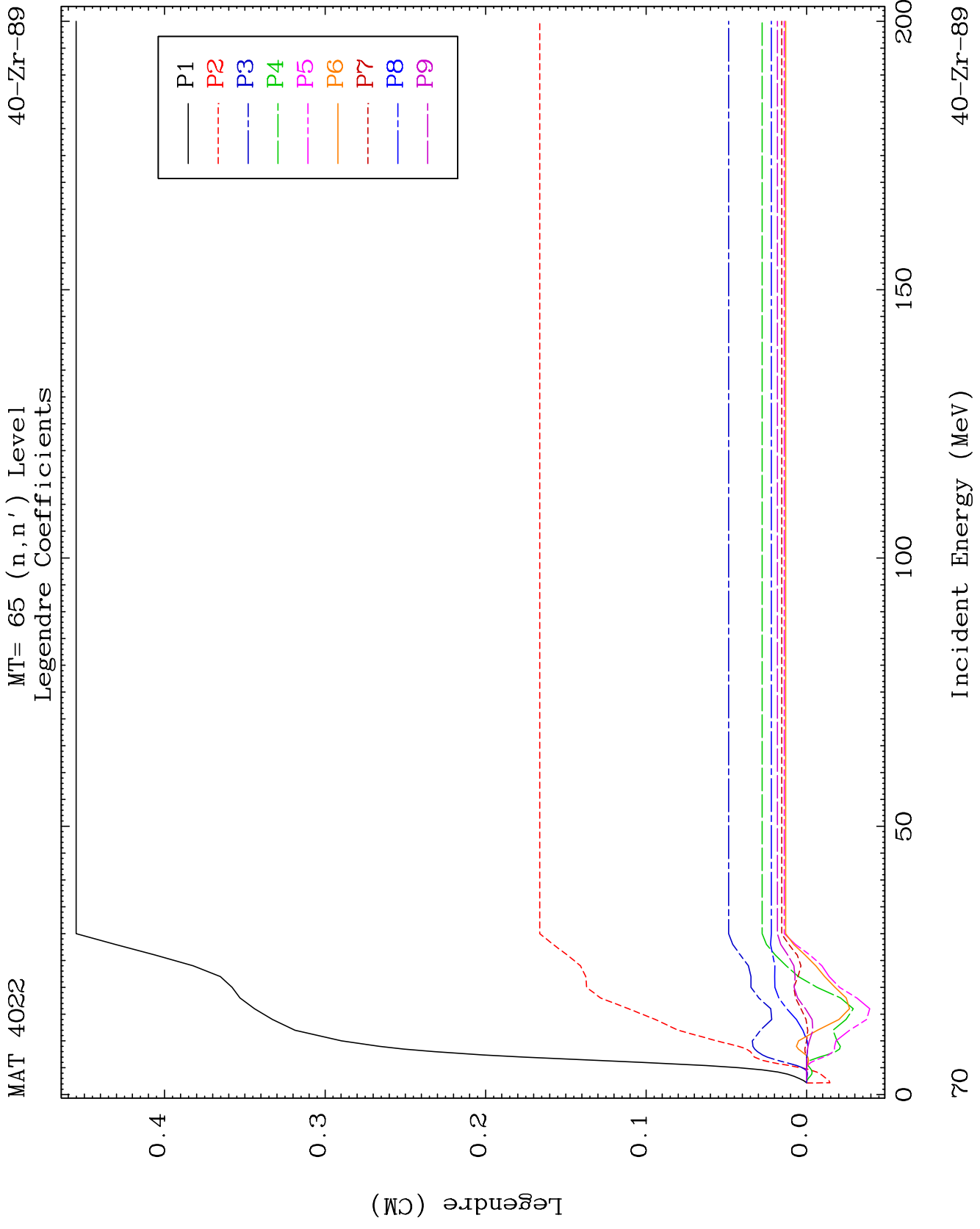
68

MAT 4022

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

40-Zr-89







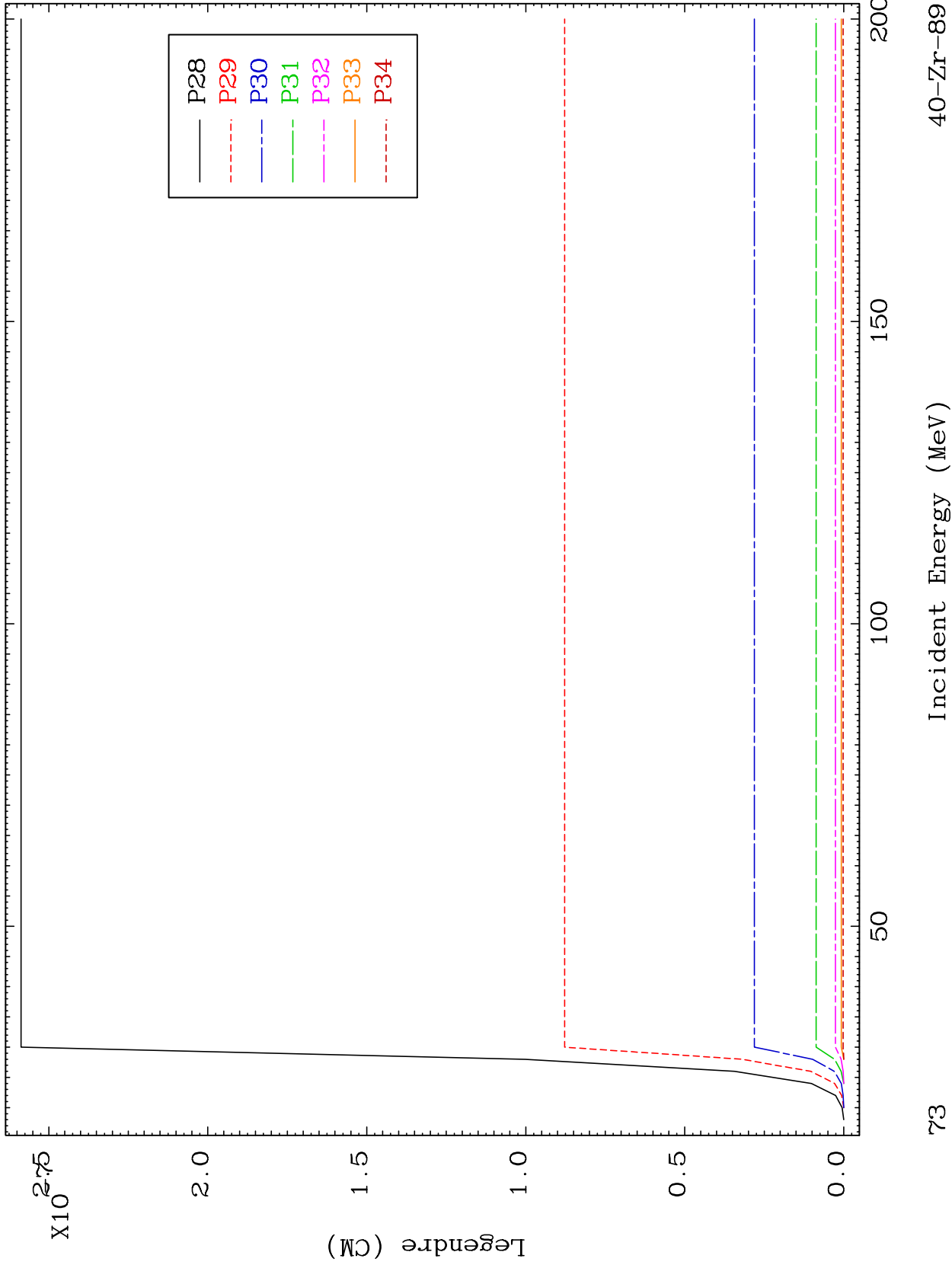




MAT 4022

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

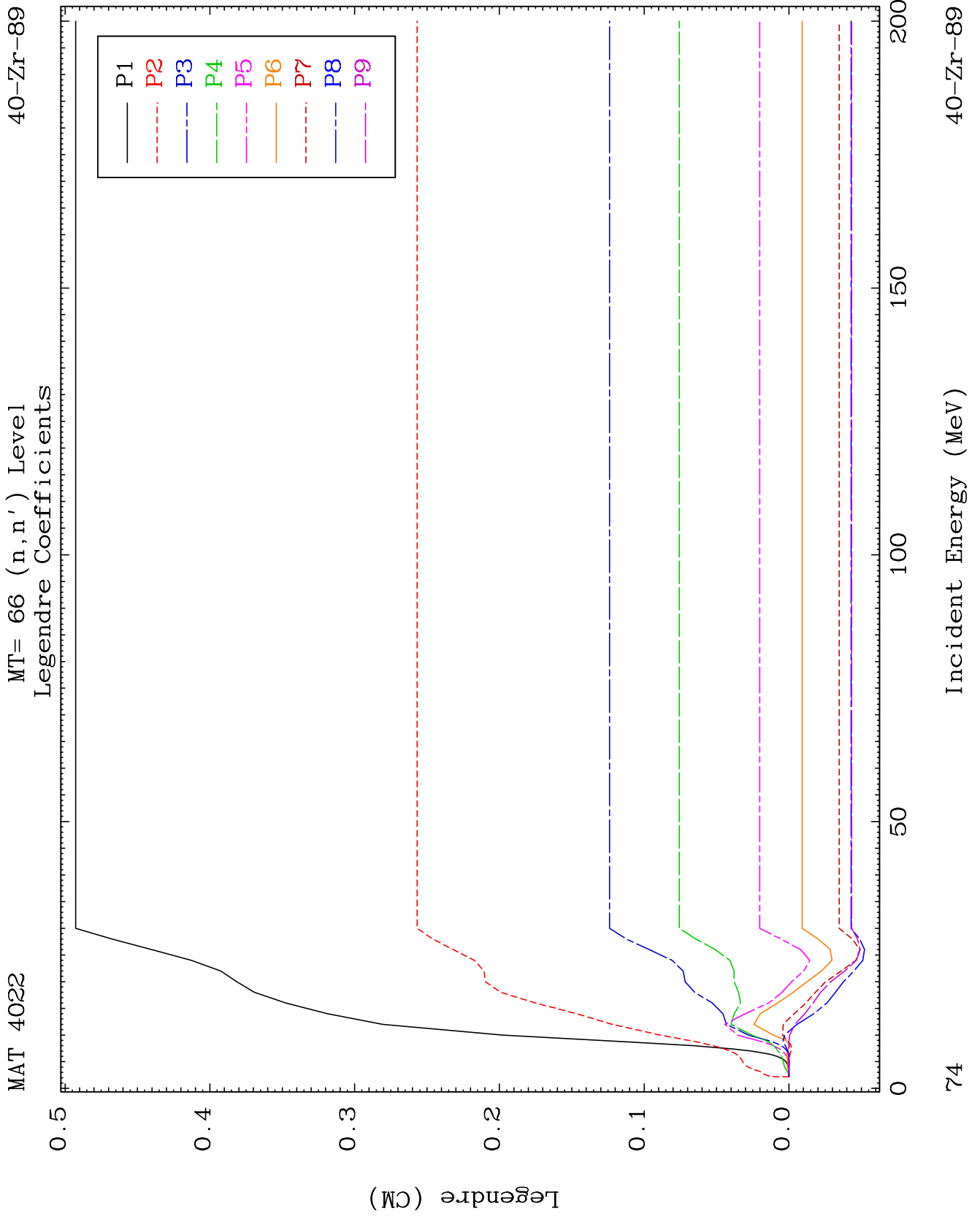
40-Zr-89



73

Incident Energy (MeV)

40-Zr-89

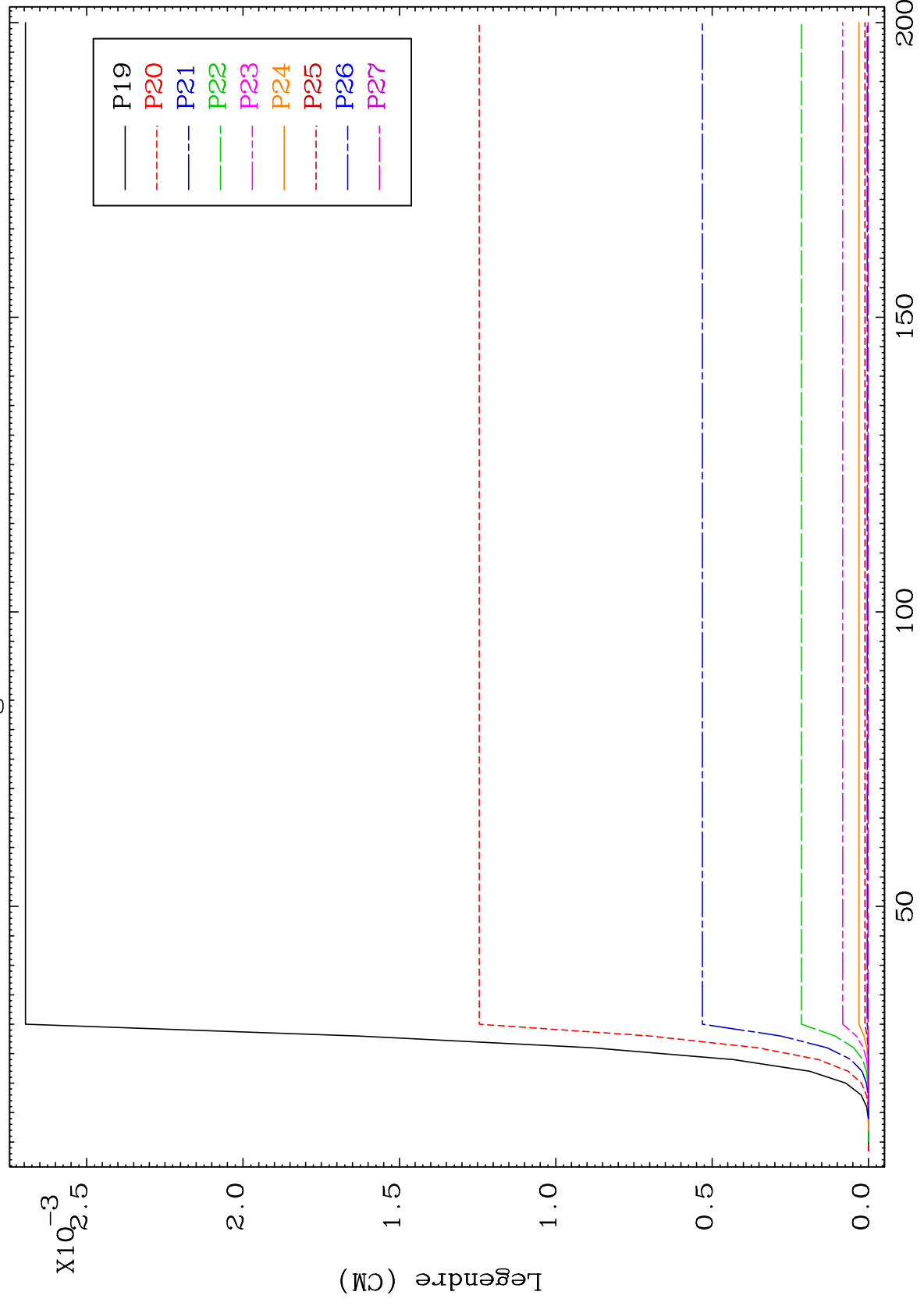




MAT 4022

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

40-Zr-89



40-Zr-89

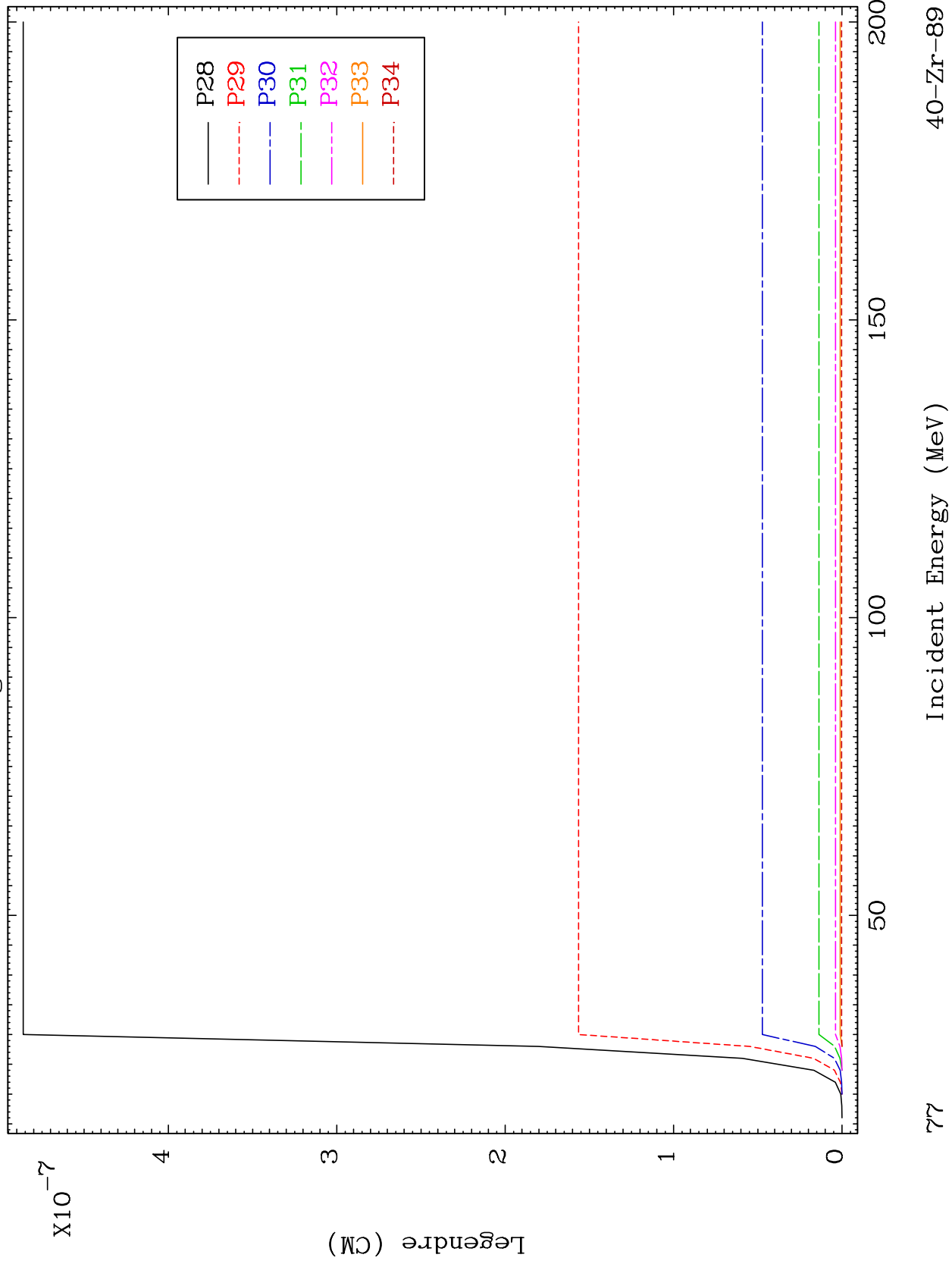
Incident Energy (MeV)

76

MAT 4022

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

40-Zr-89

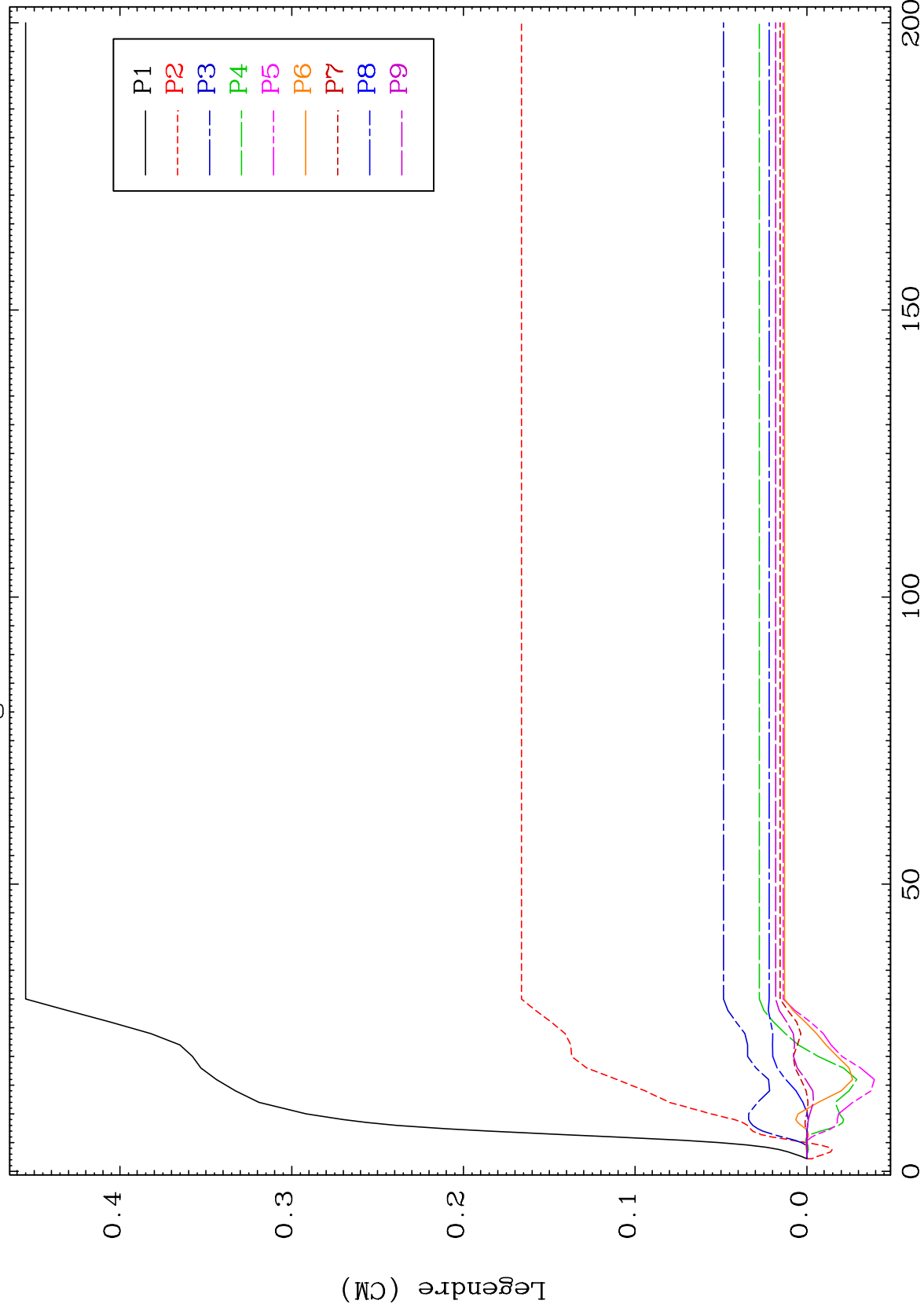


77

MAT 4022

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

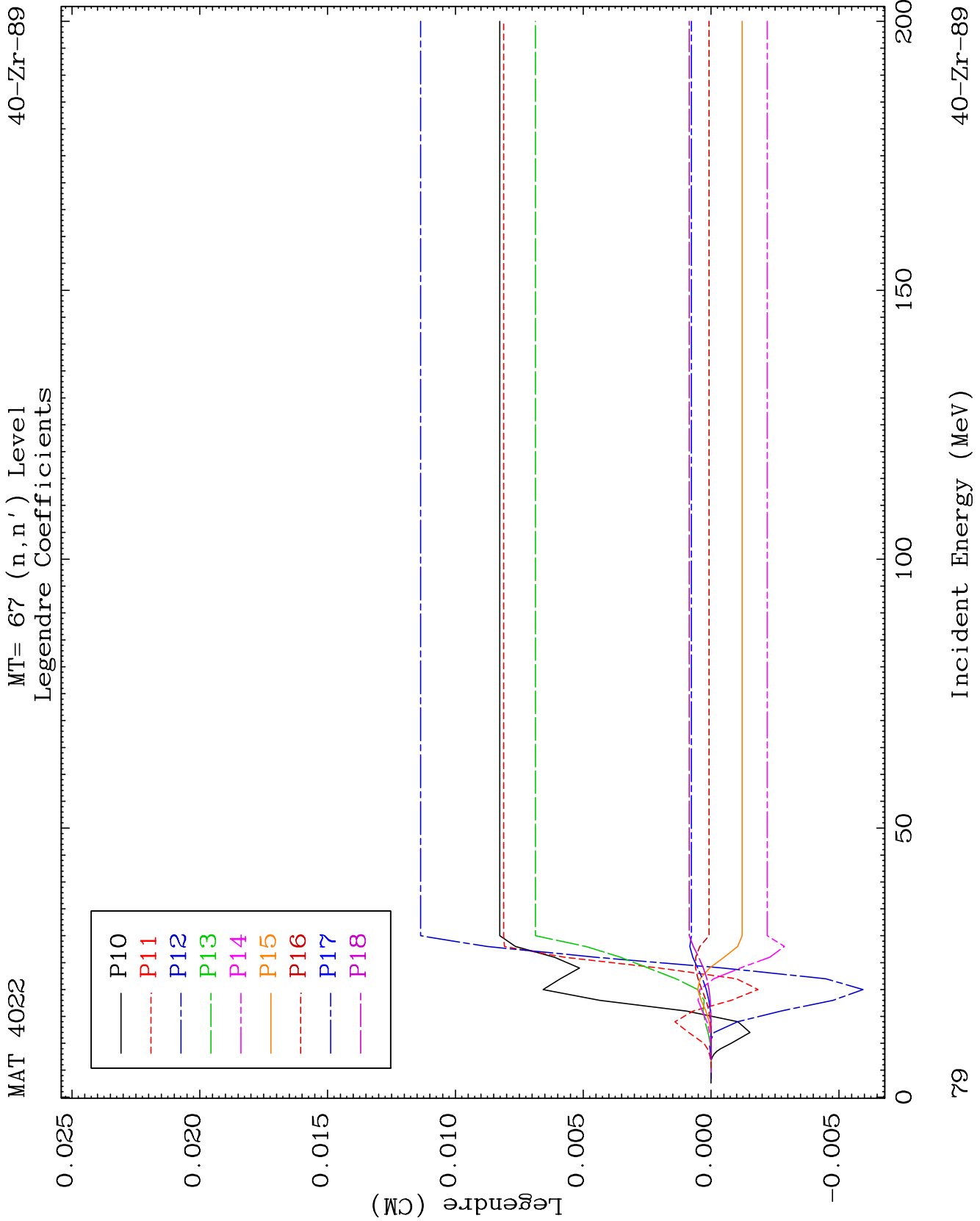
40-Zr-89



78

Incident Energy (MeV)

40-Zr-89



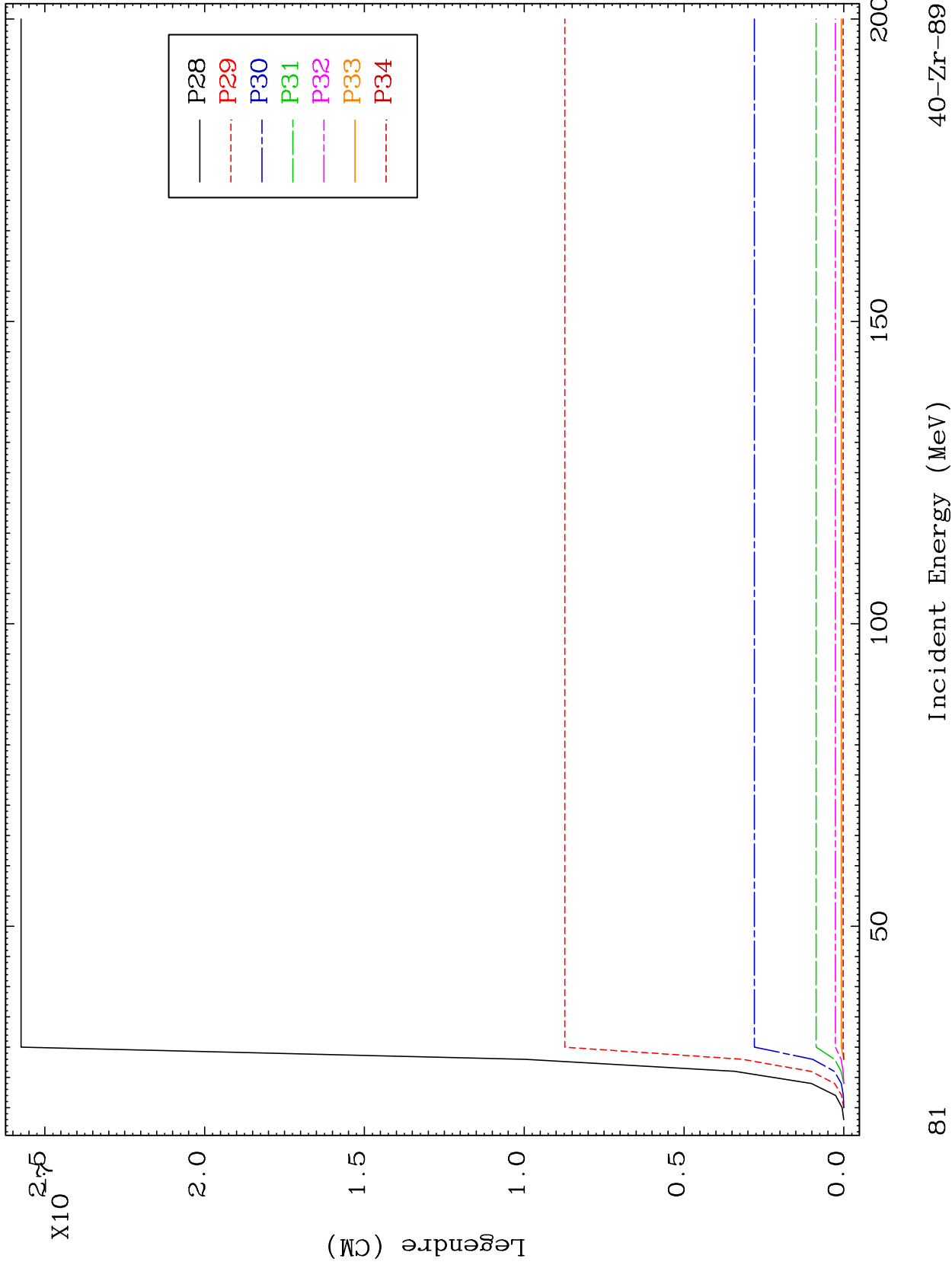




MAT 4022

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

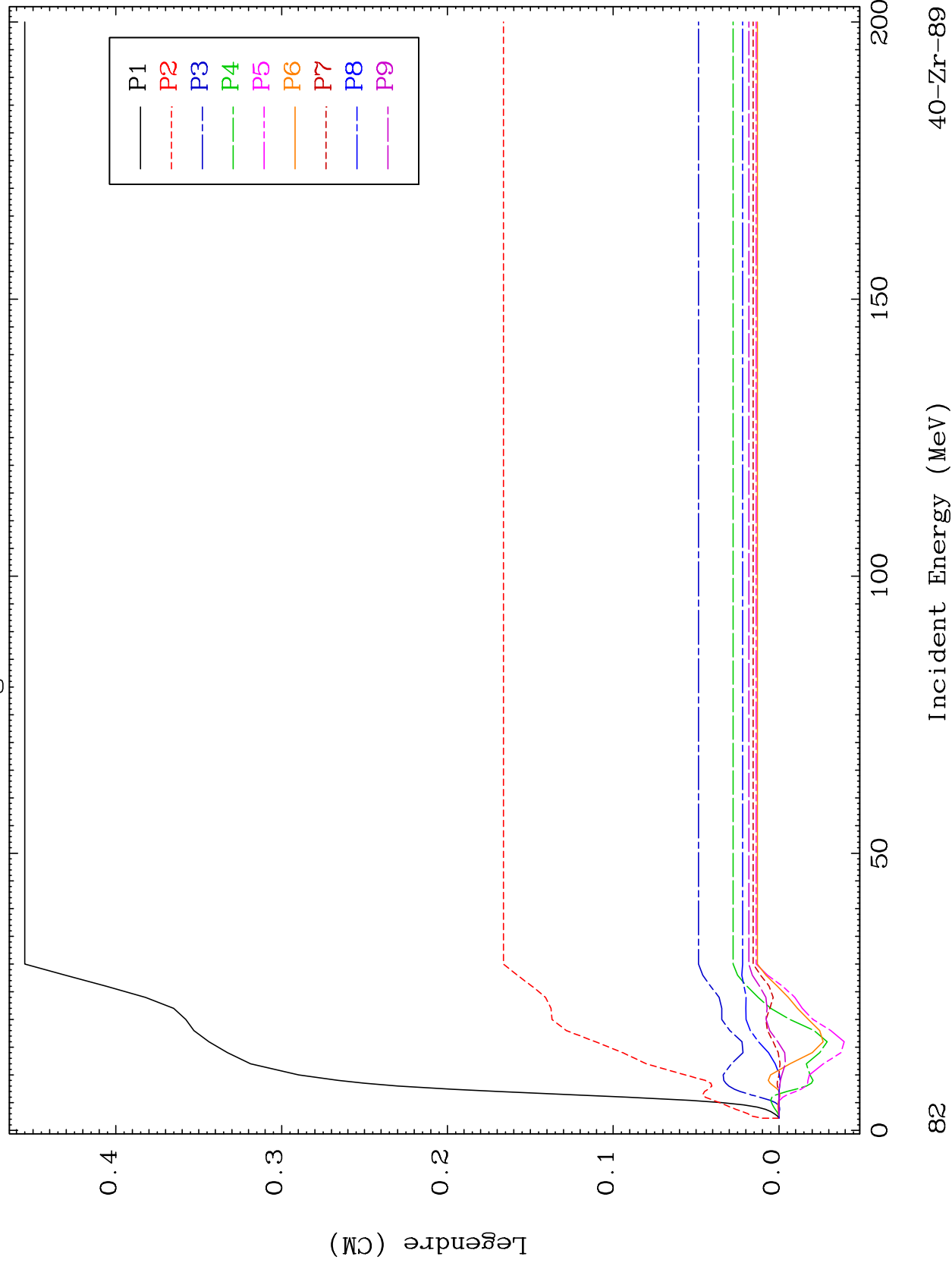
40-Zr-89



MAT 4022

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

40-Zr-89



40-Zr-89

Incident Energy (MeV)

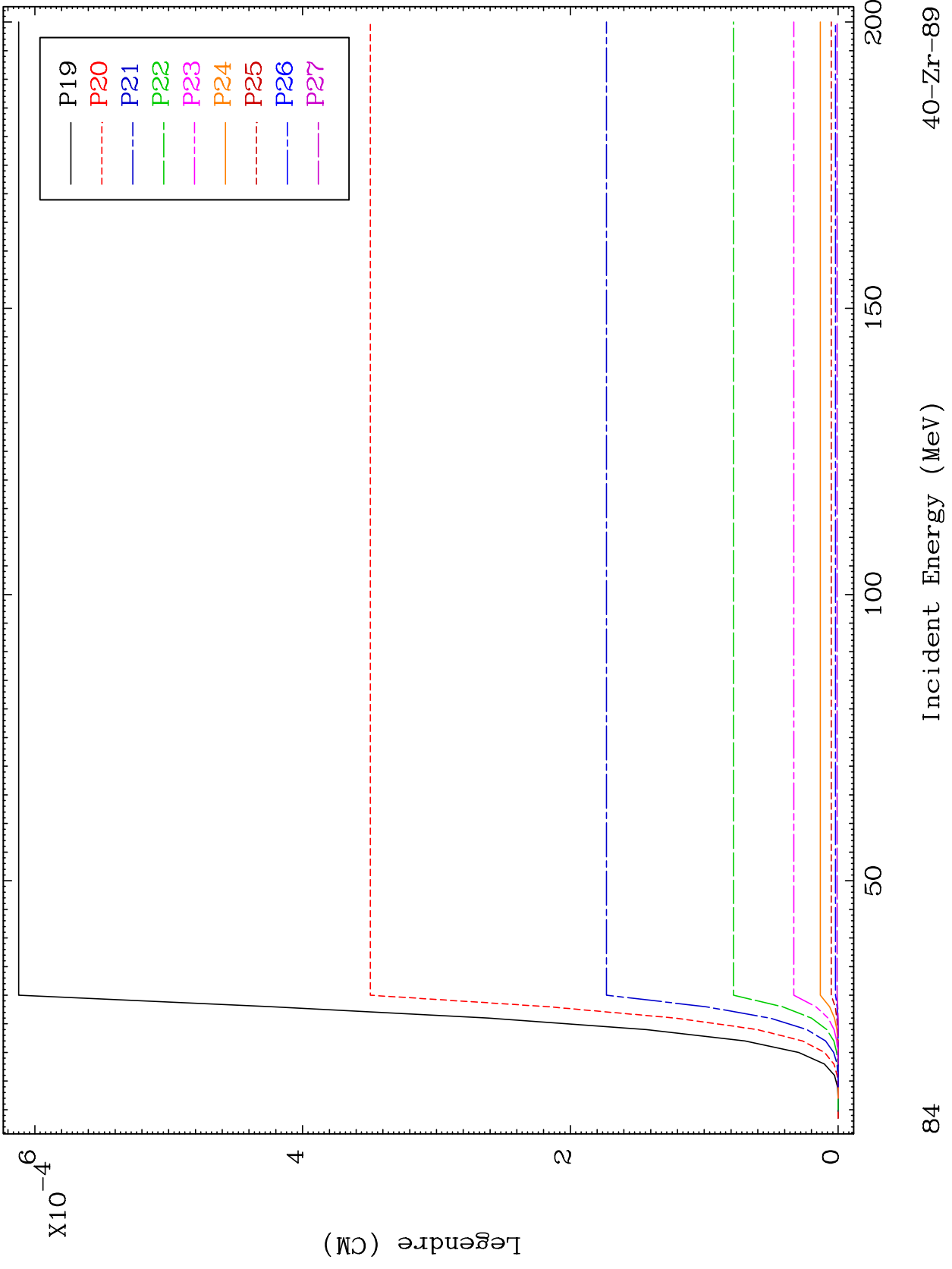
82



MAT 4022

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

40-Zr-89



84

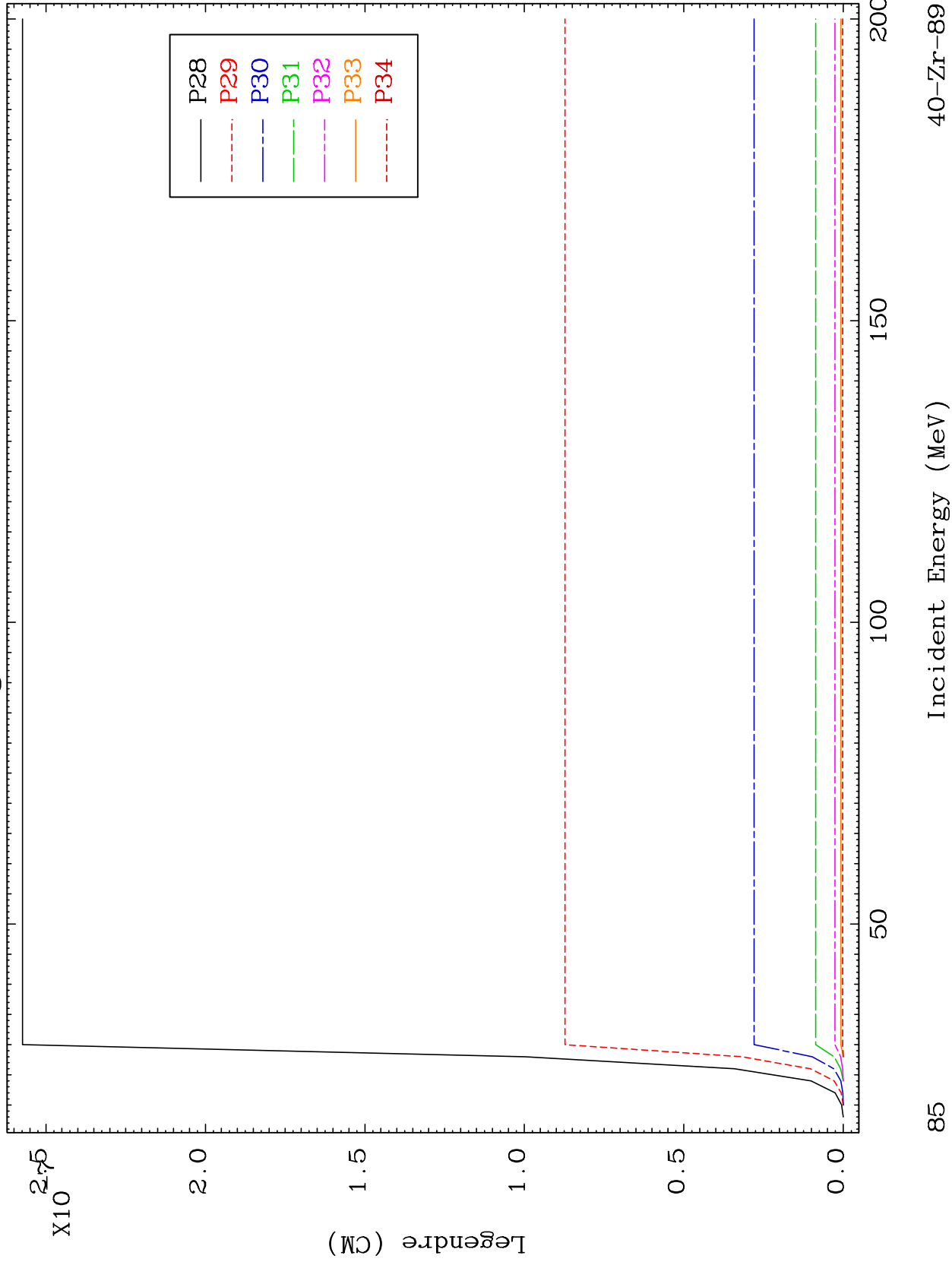
Incident Energy (MeV)

40-Zr-89

MAT 4022

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

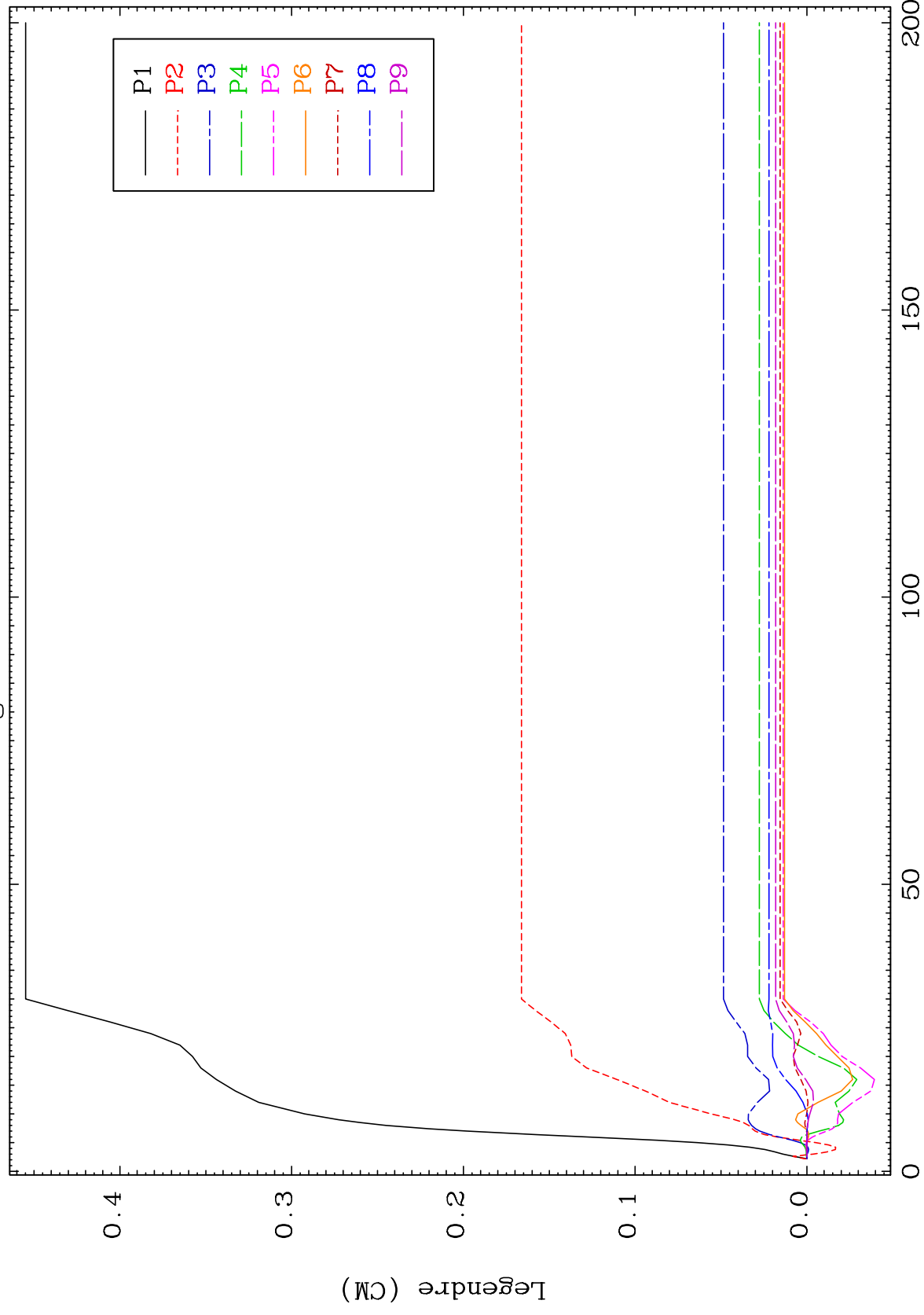
40-Zr-89



MAT 4022

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

40-Zr-89



86

Incident Energy (MeV)

40-Zr-89

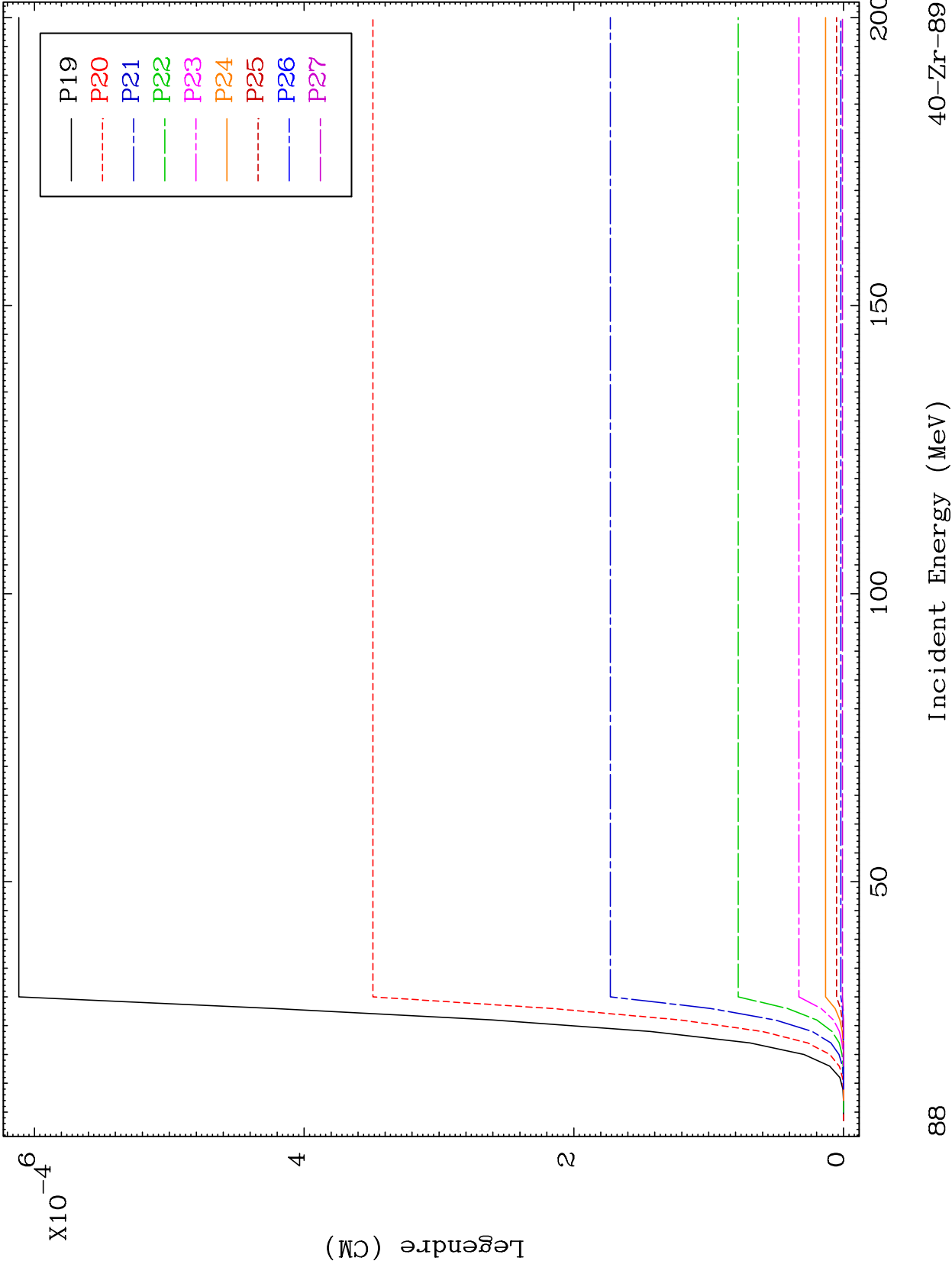




MAT 4022

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

40-Zr-89



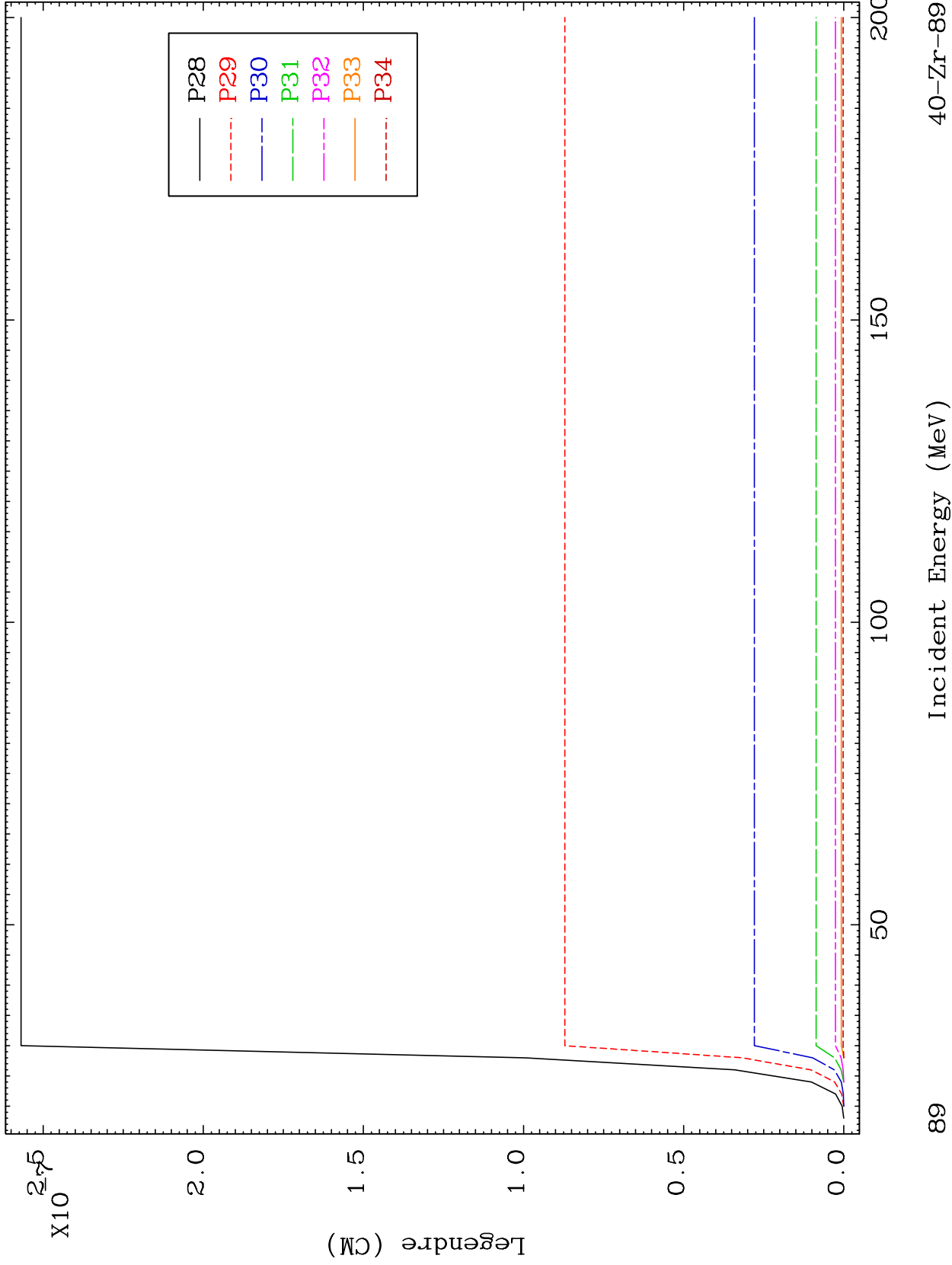
88

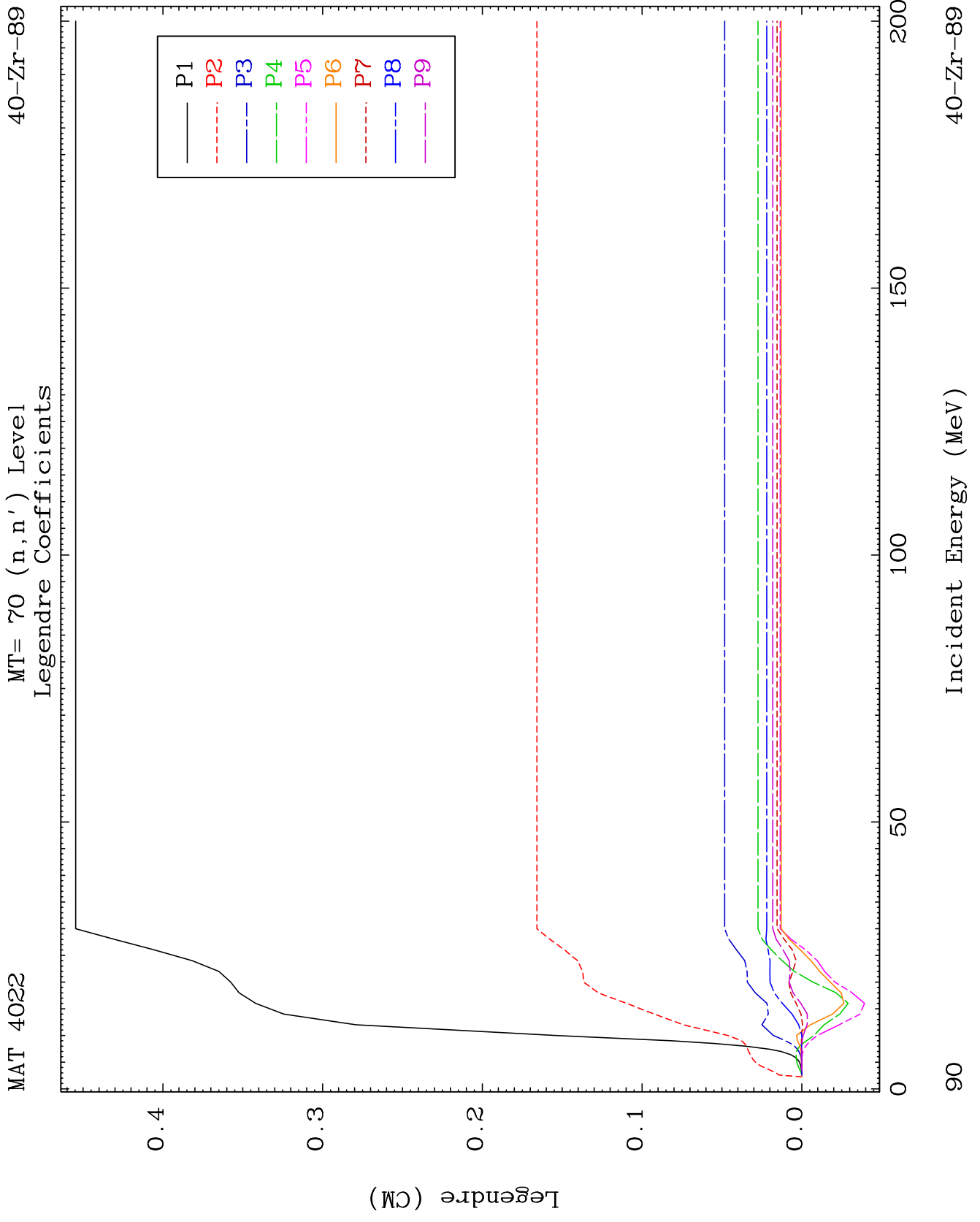
40-Zr-89

MAT 4022

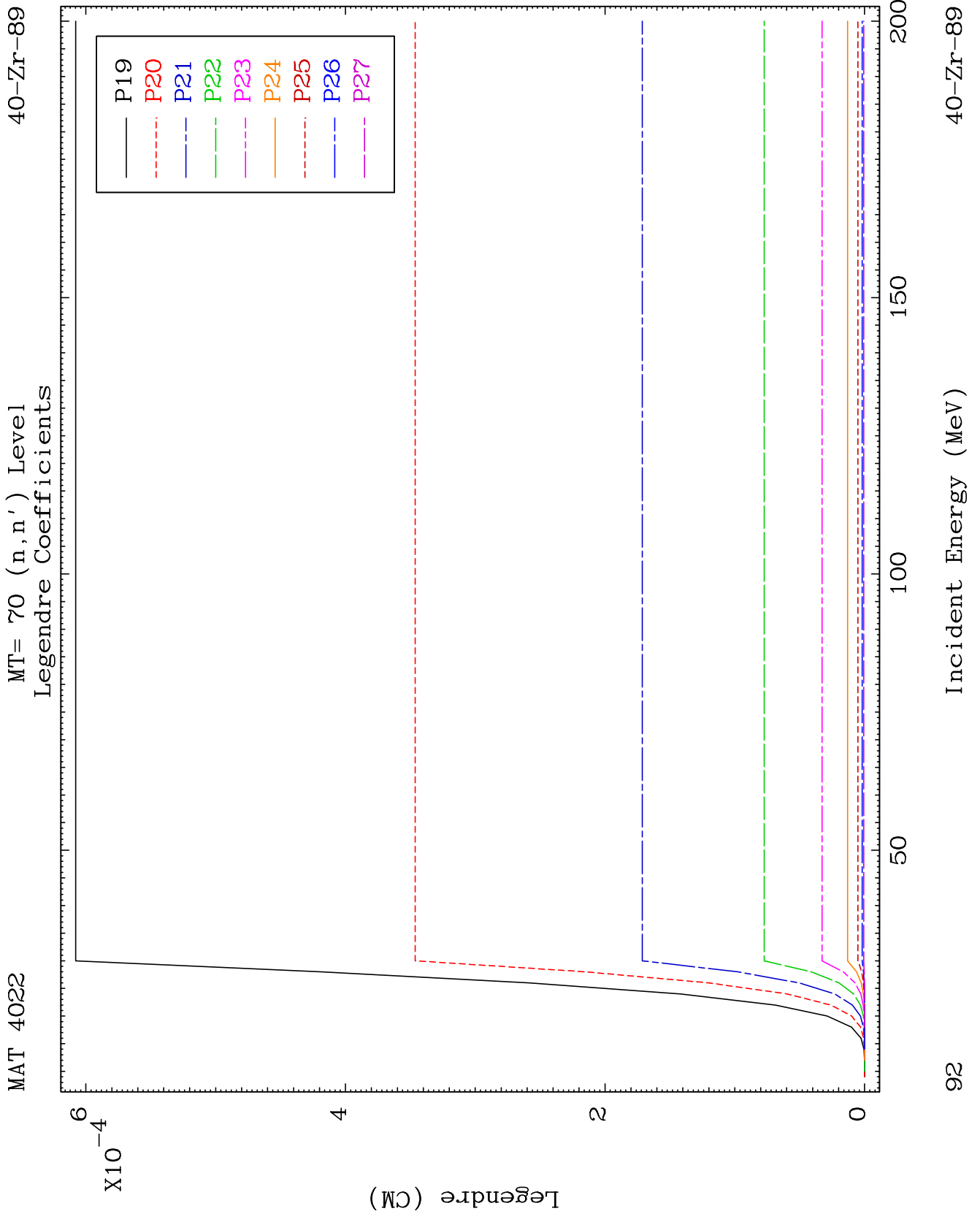
MT= 69 (n,n') Level  
Legendre Coefficients

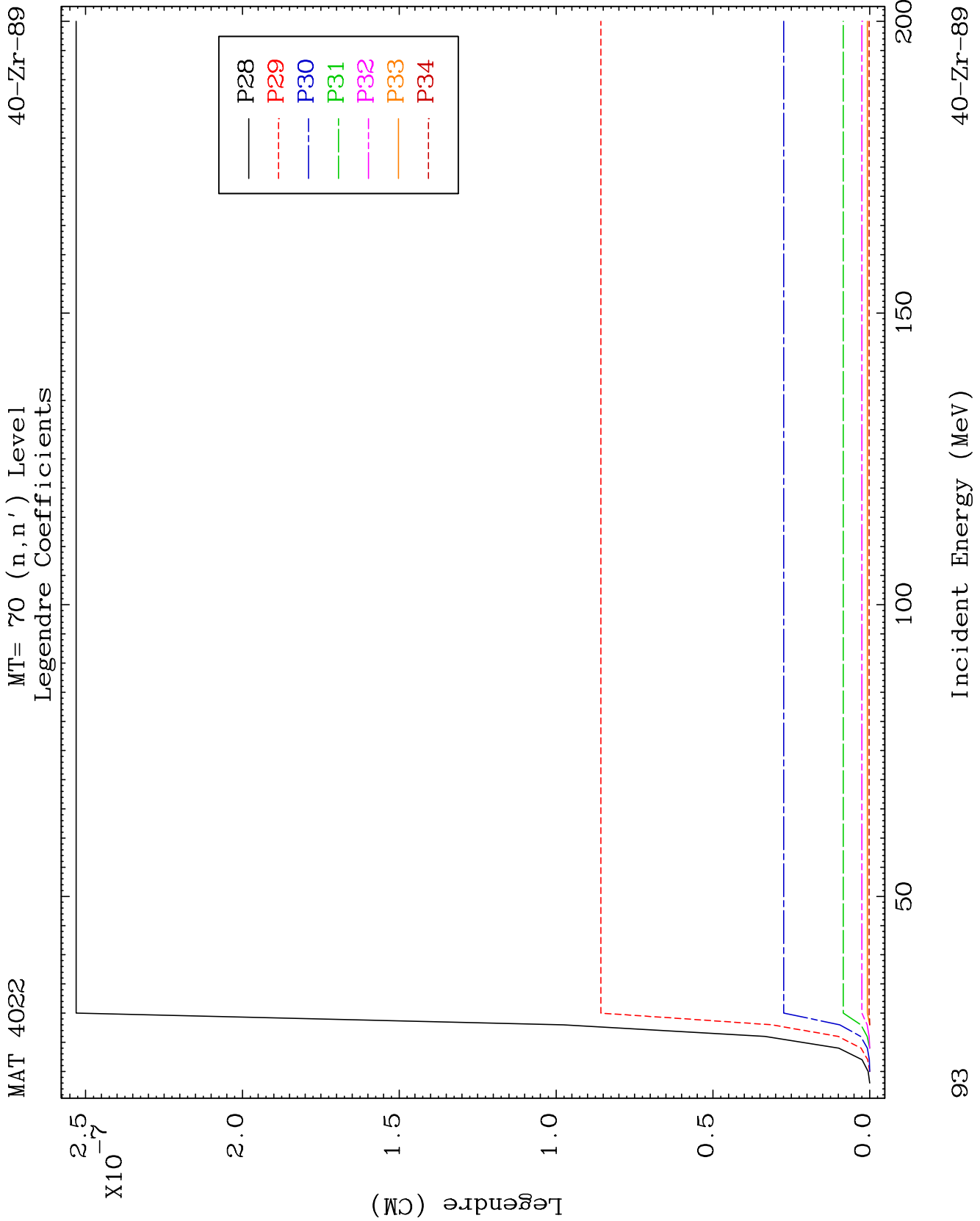
40-Zr-89









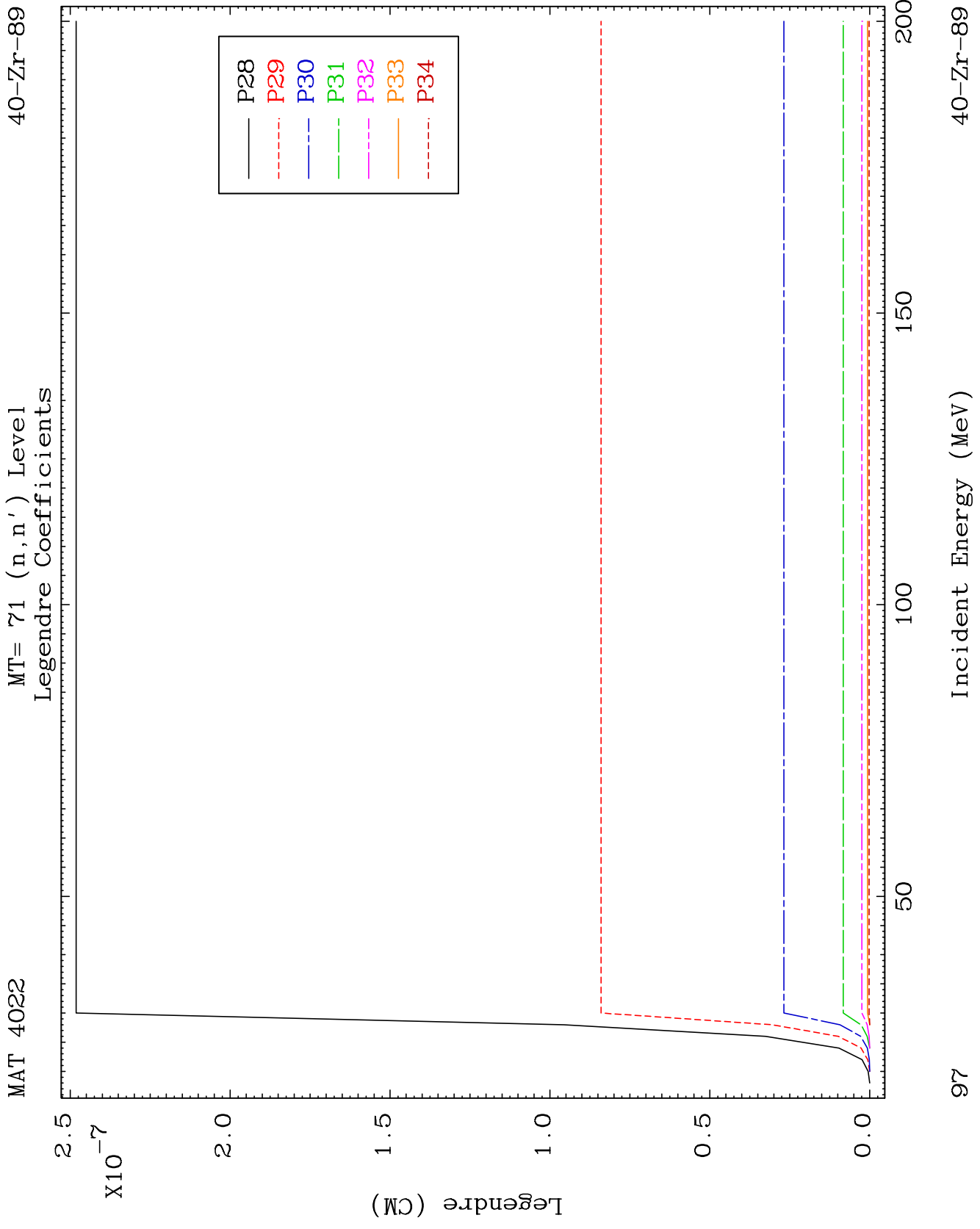




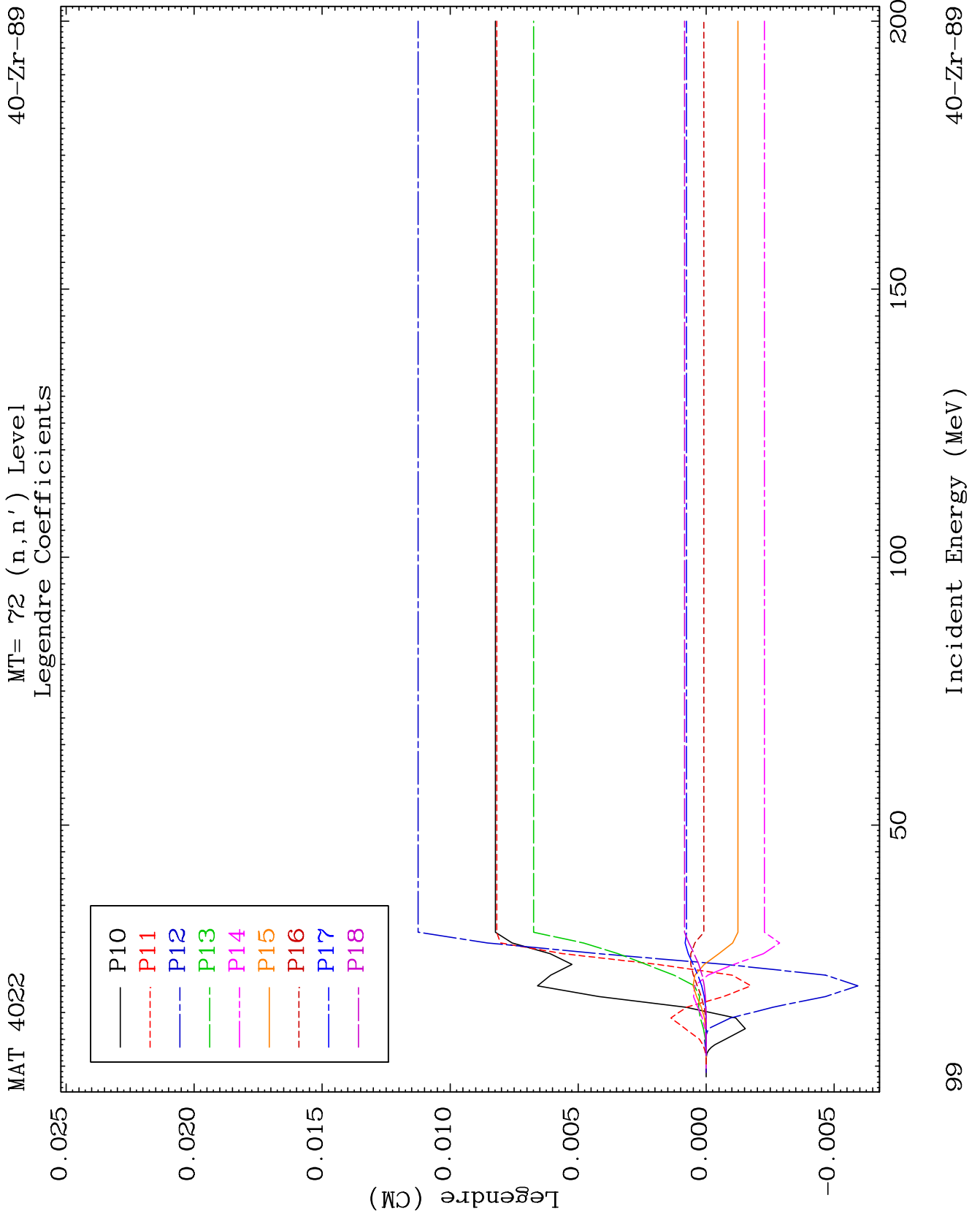


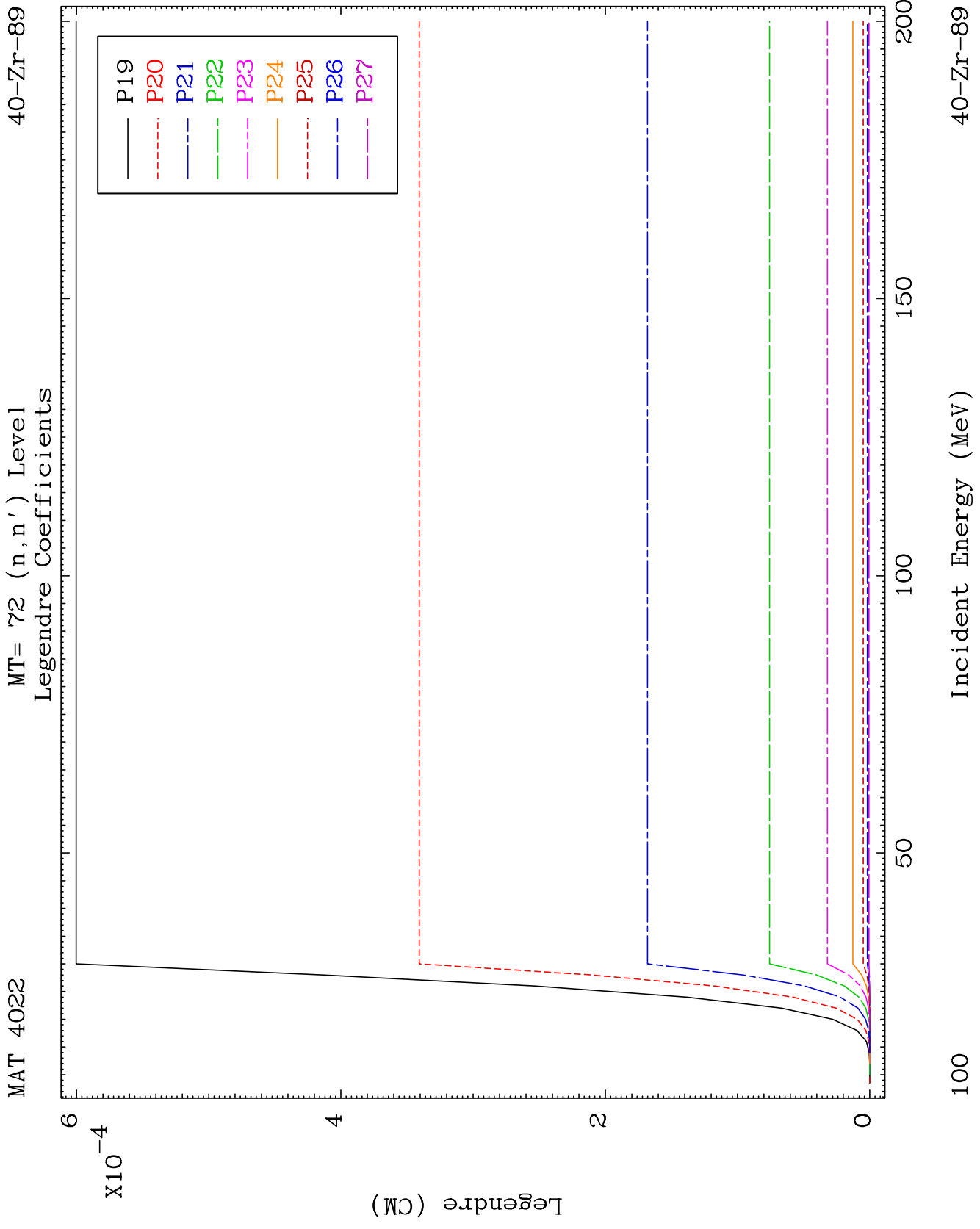








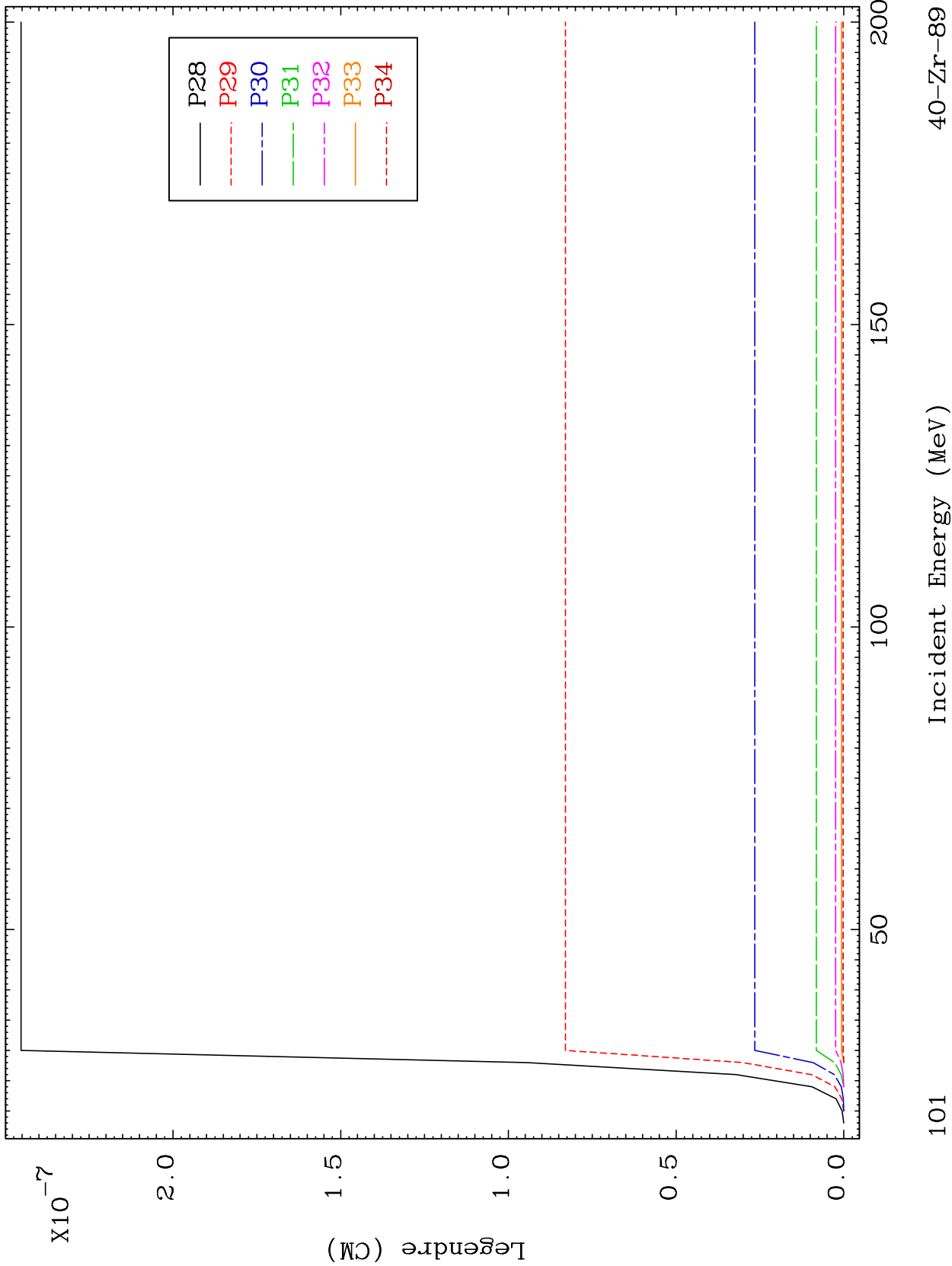




MAT 4022

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

40-Zr-89

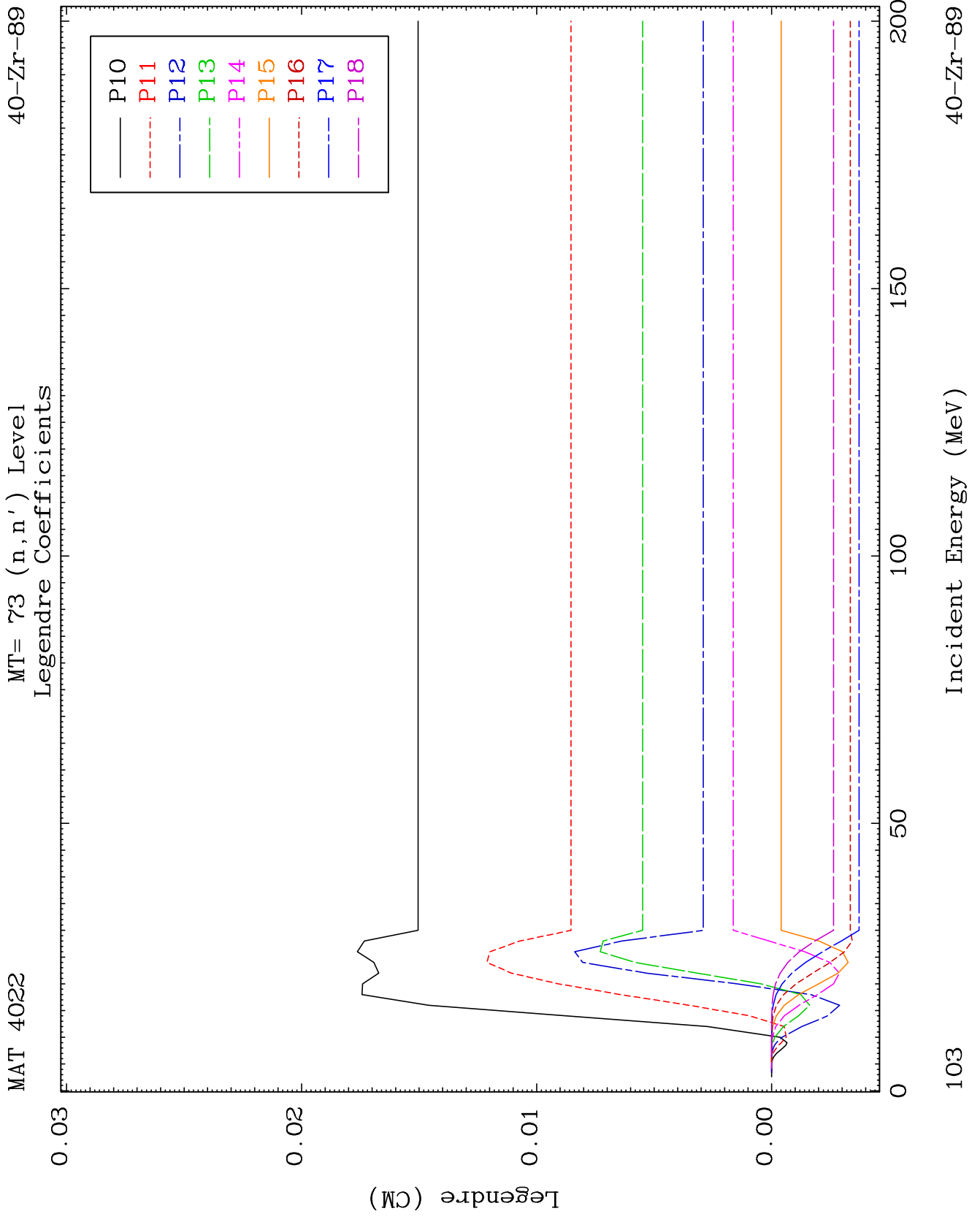


101

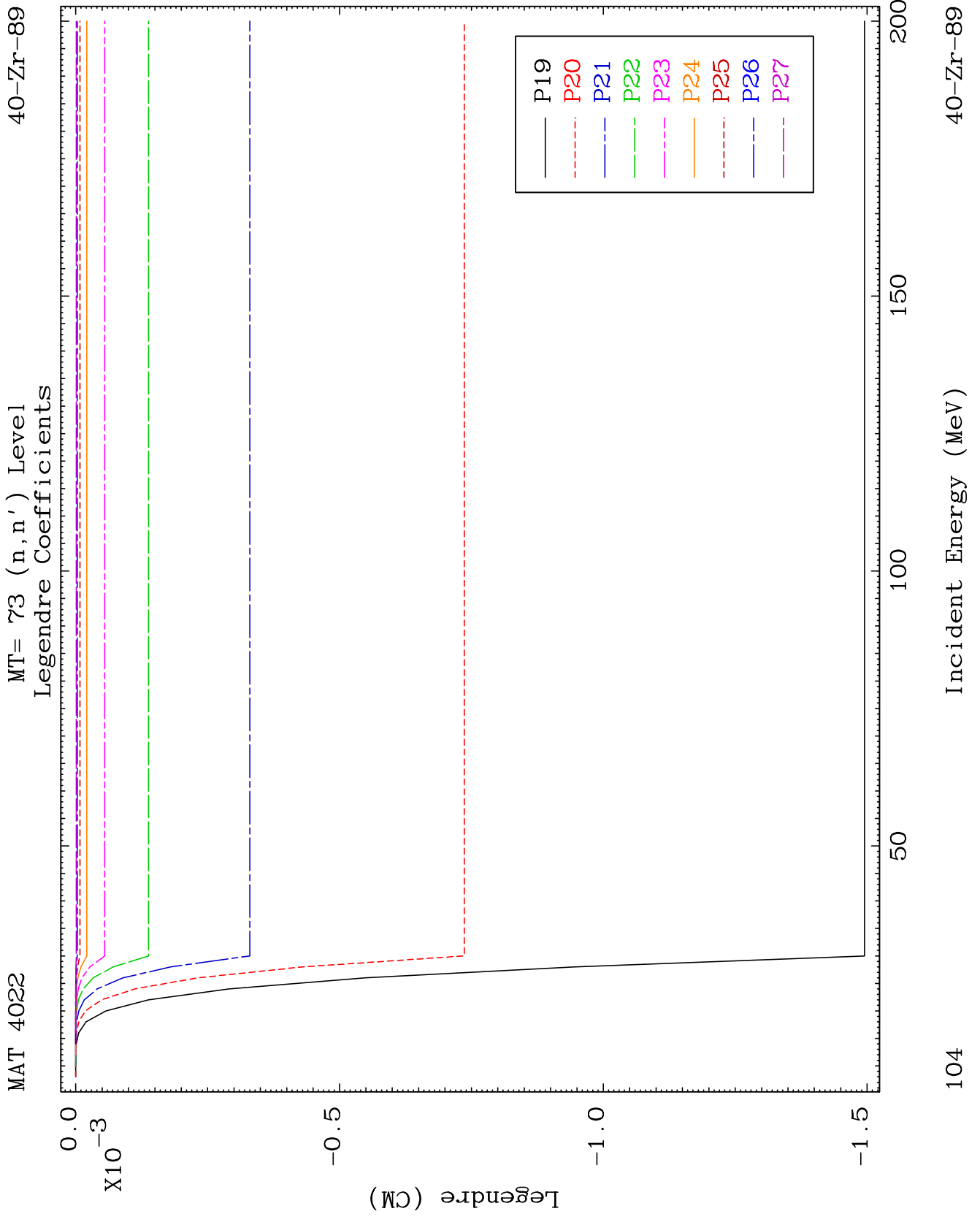
Incident Energy (MeV)

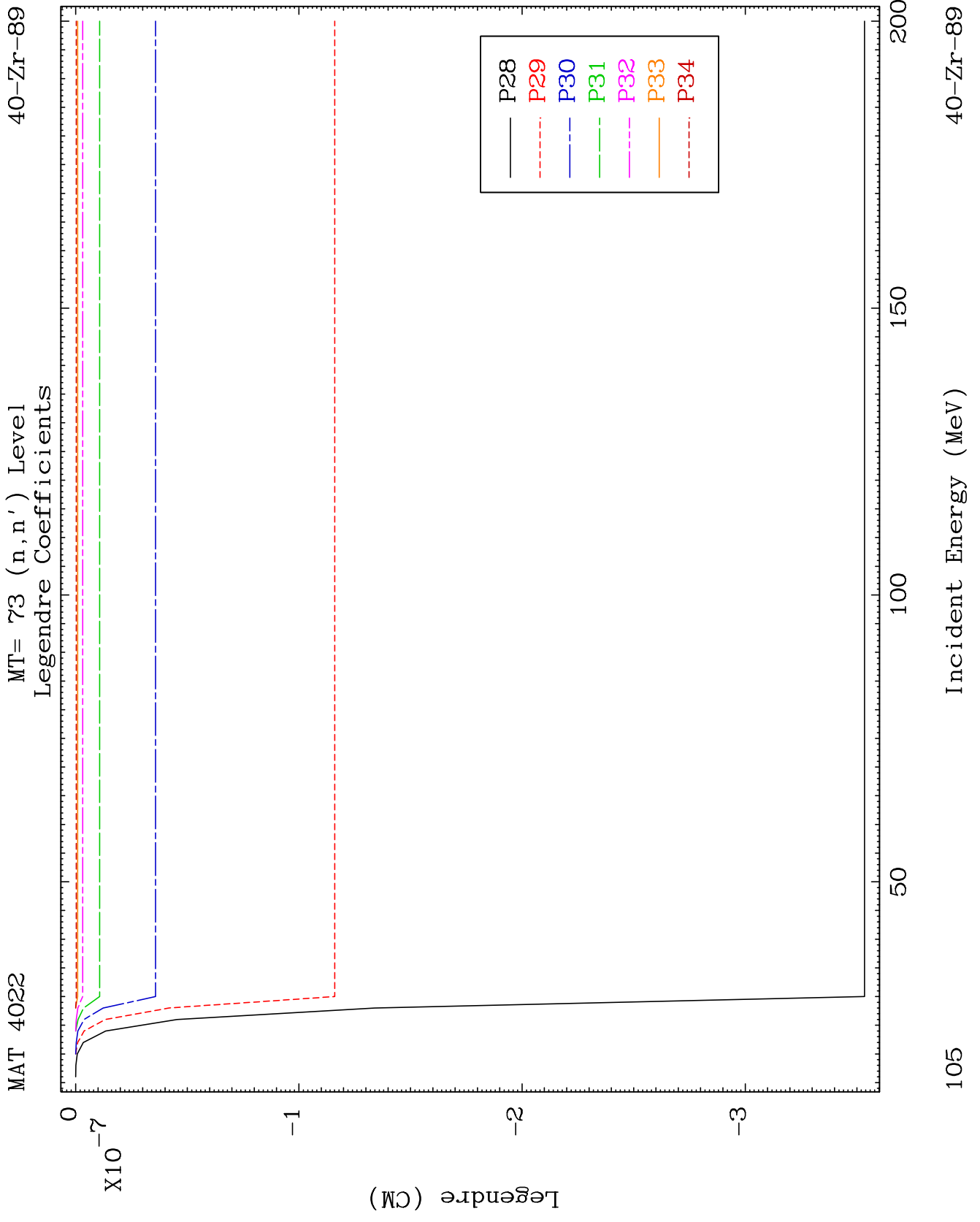
40-Zr-89

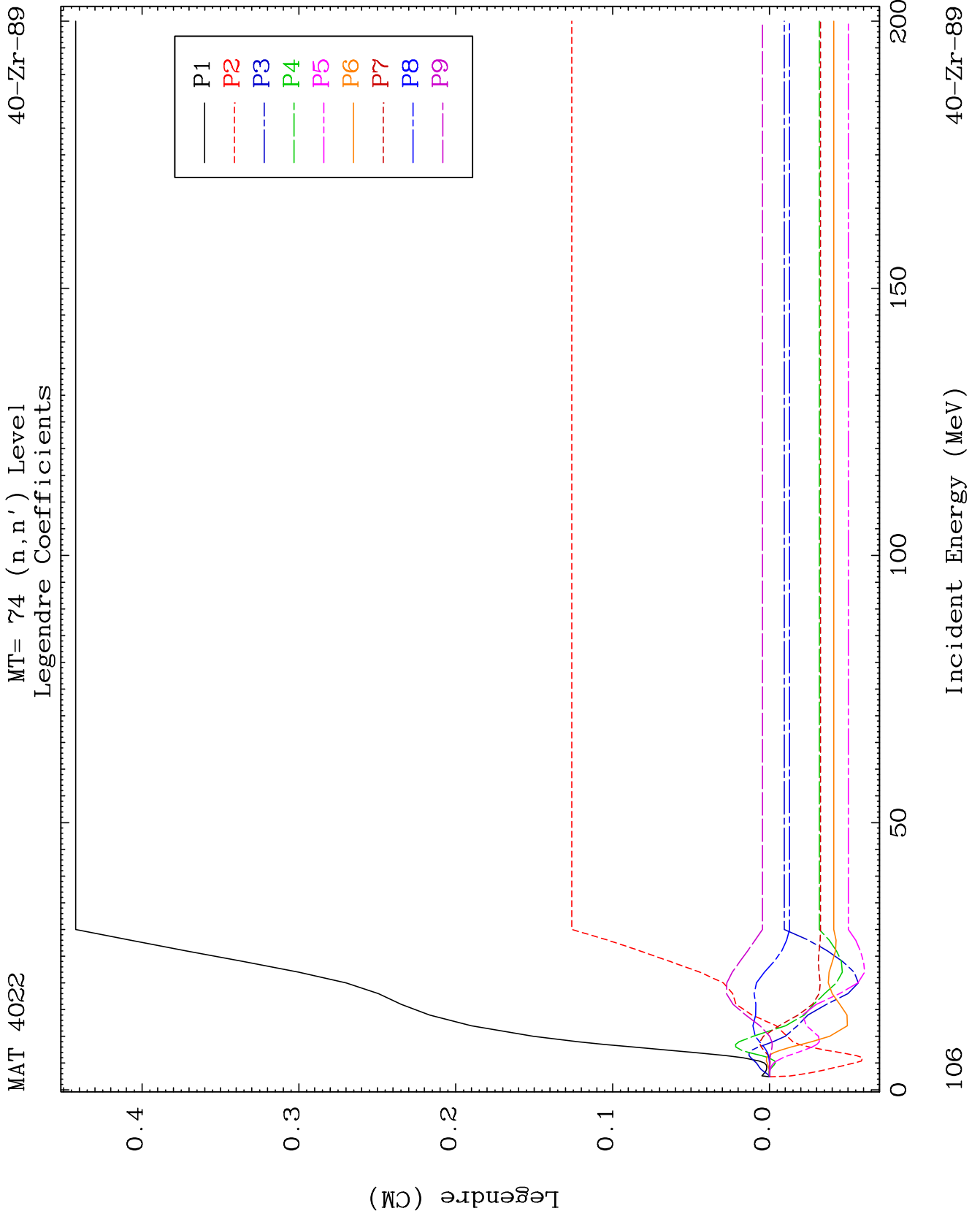


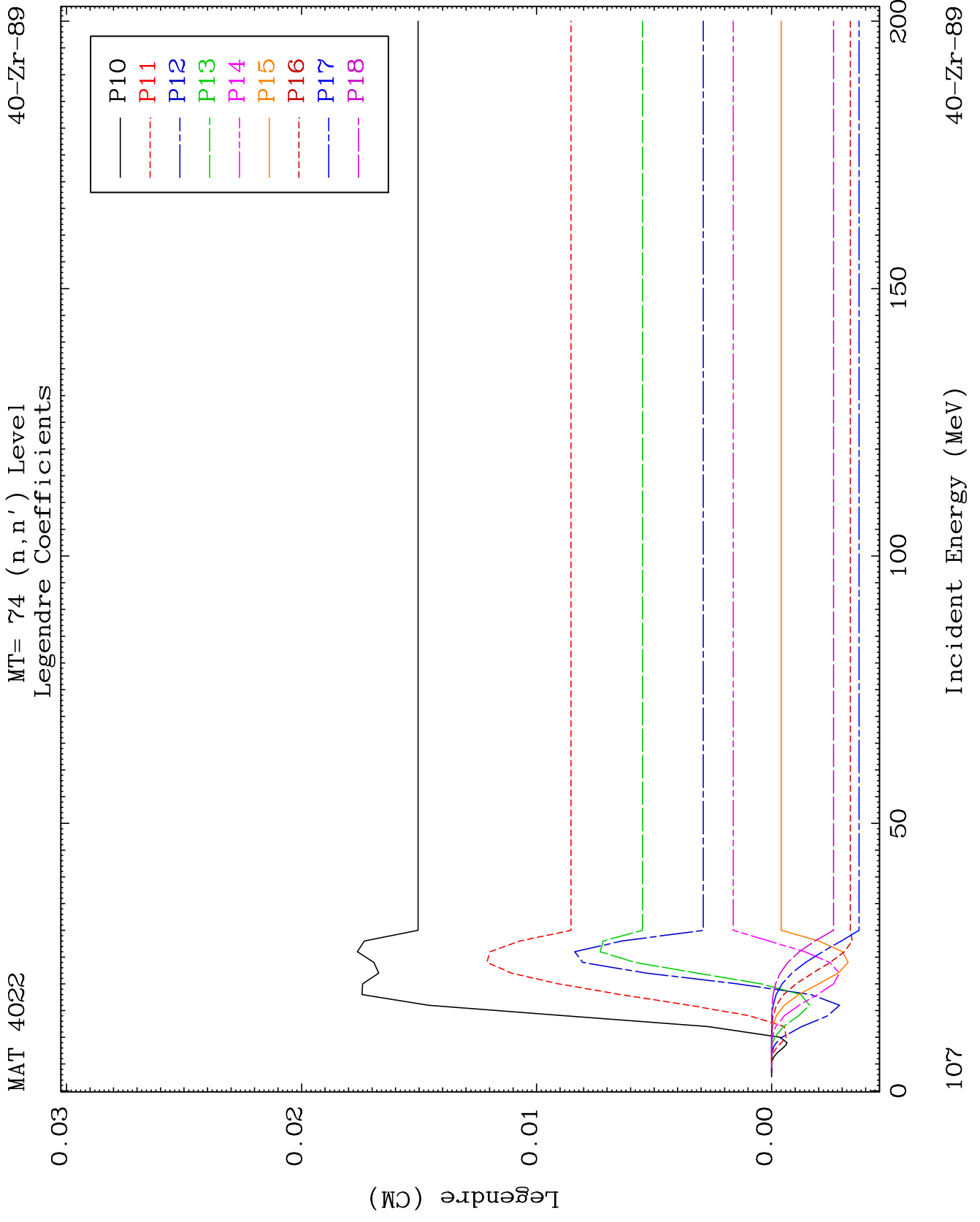


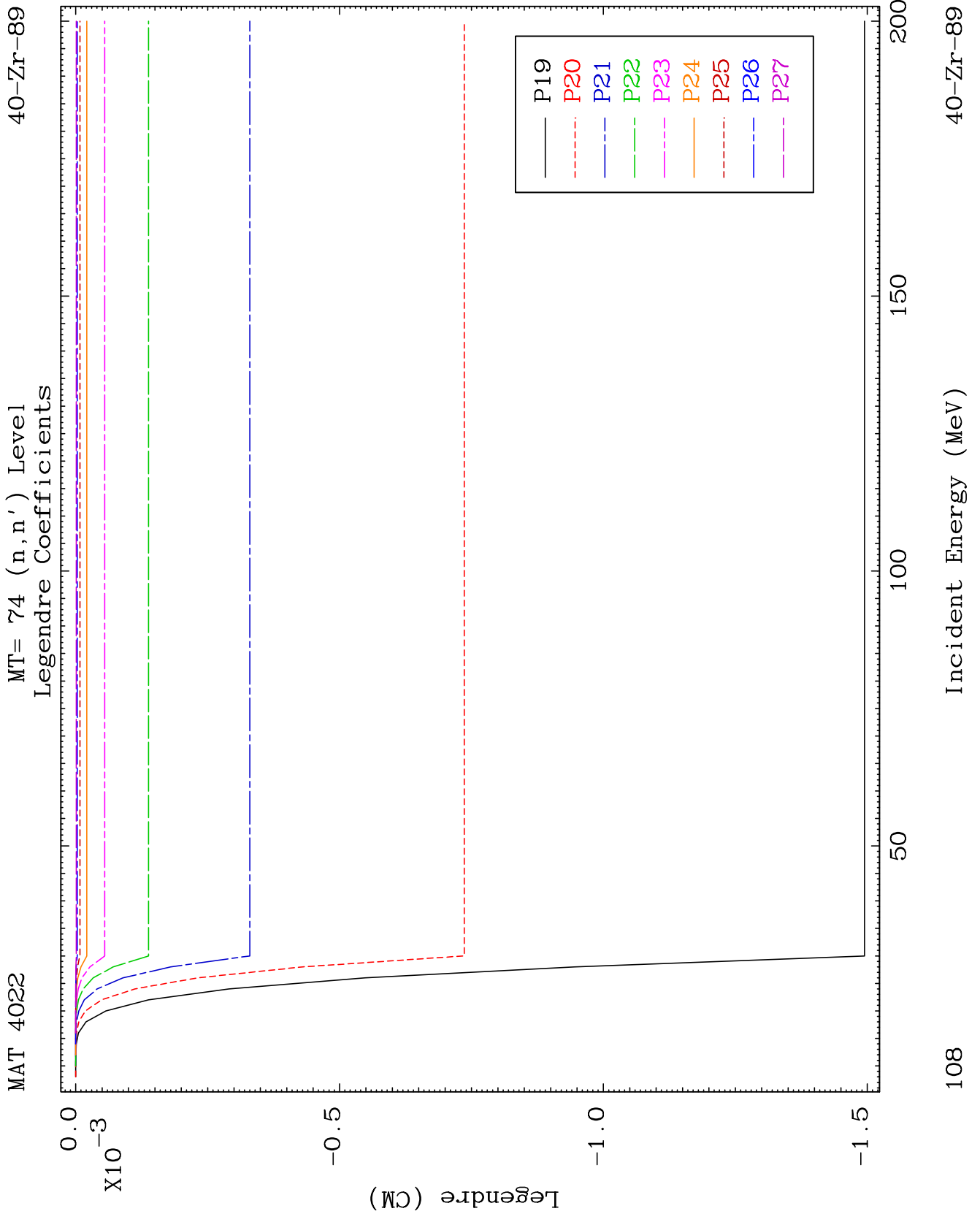


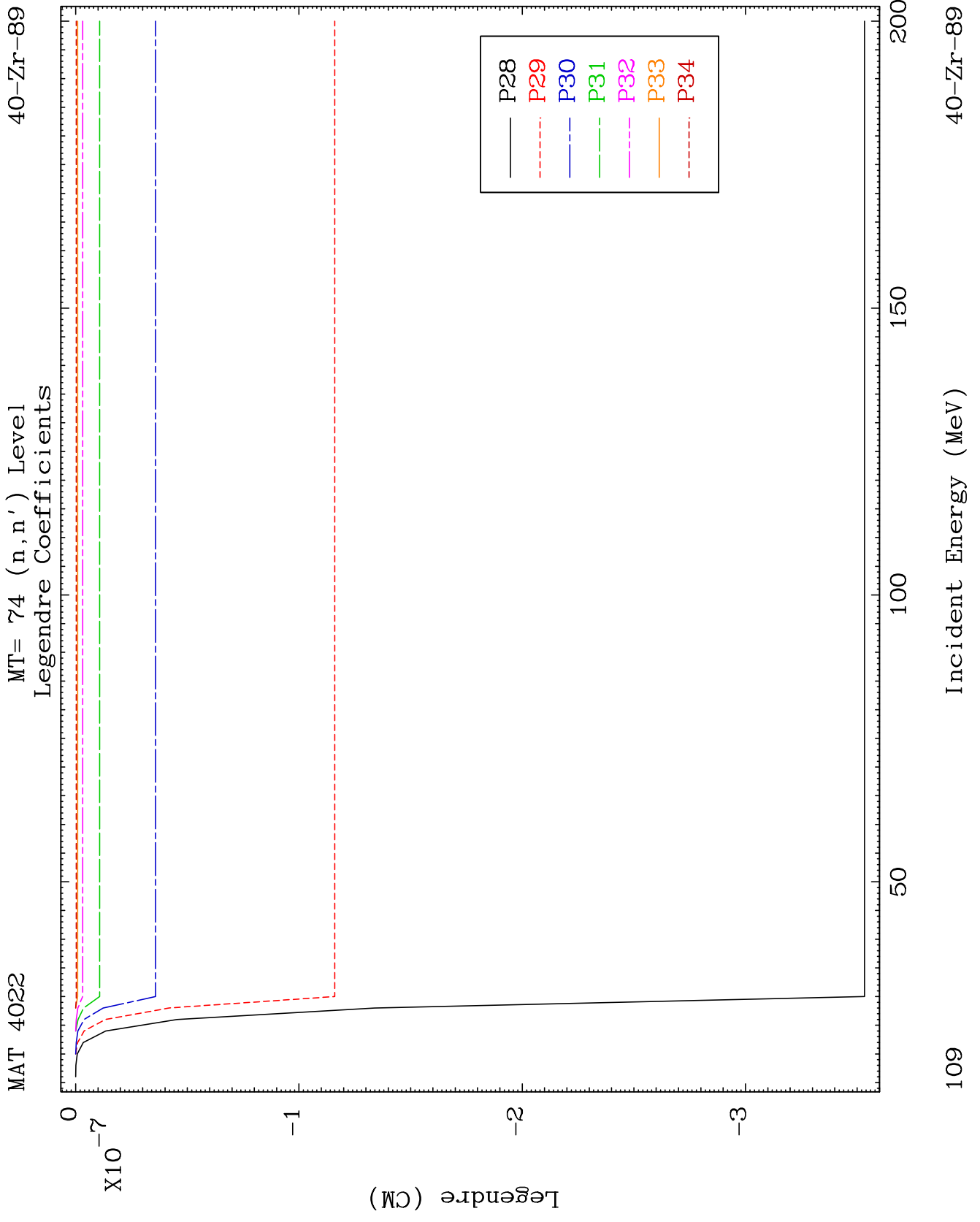




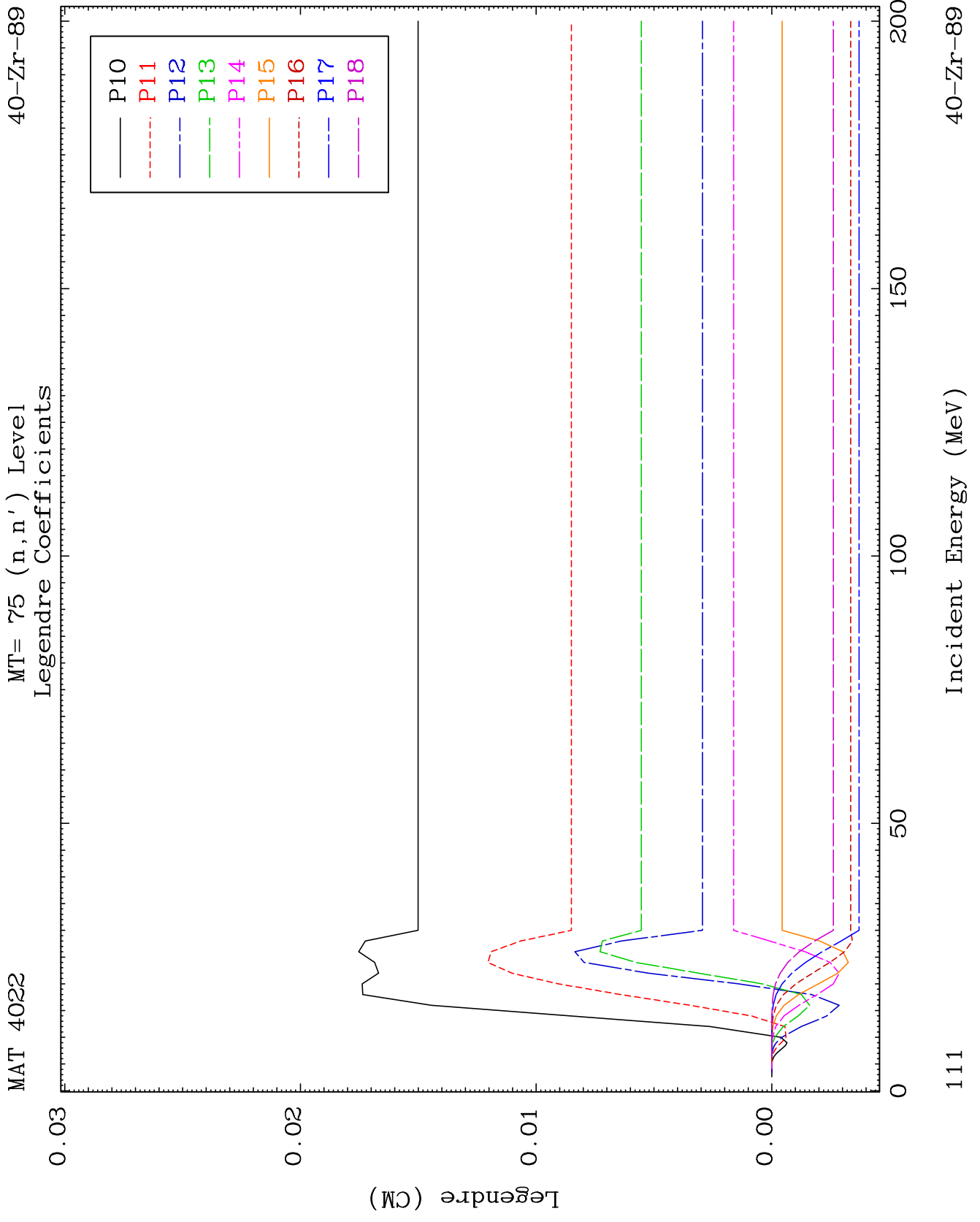




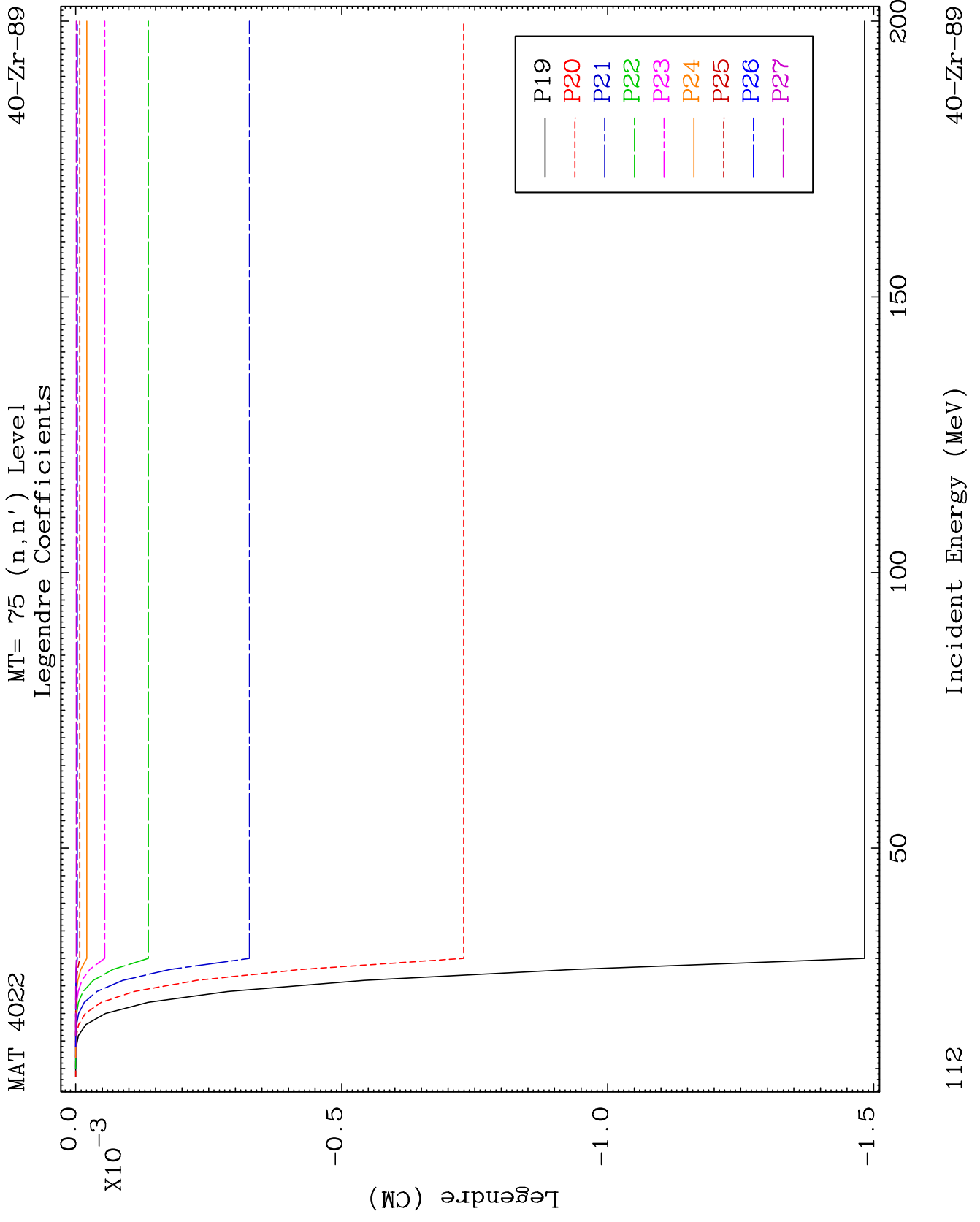


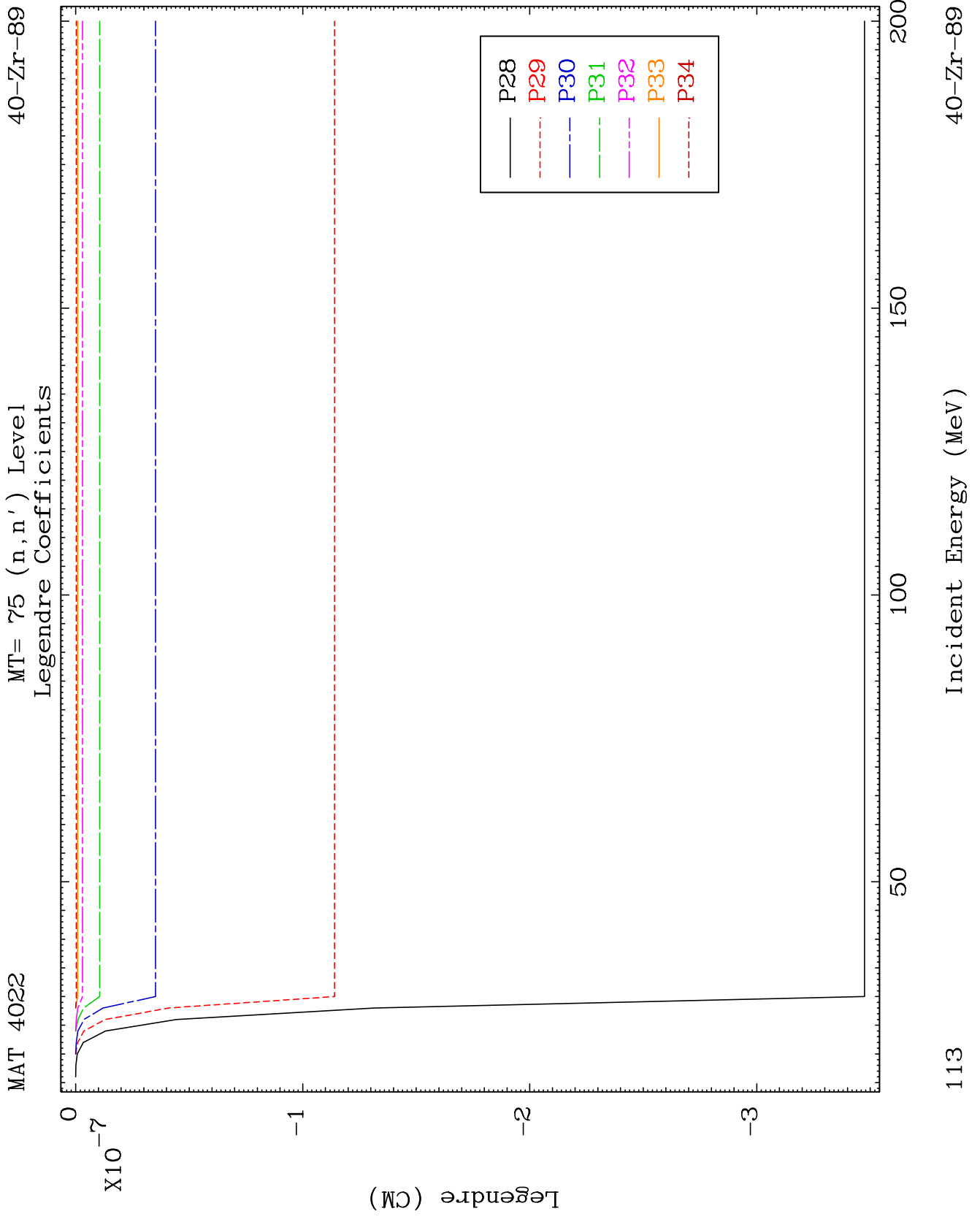




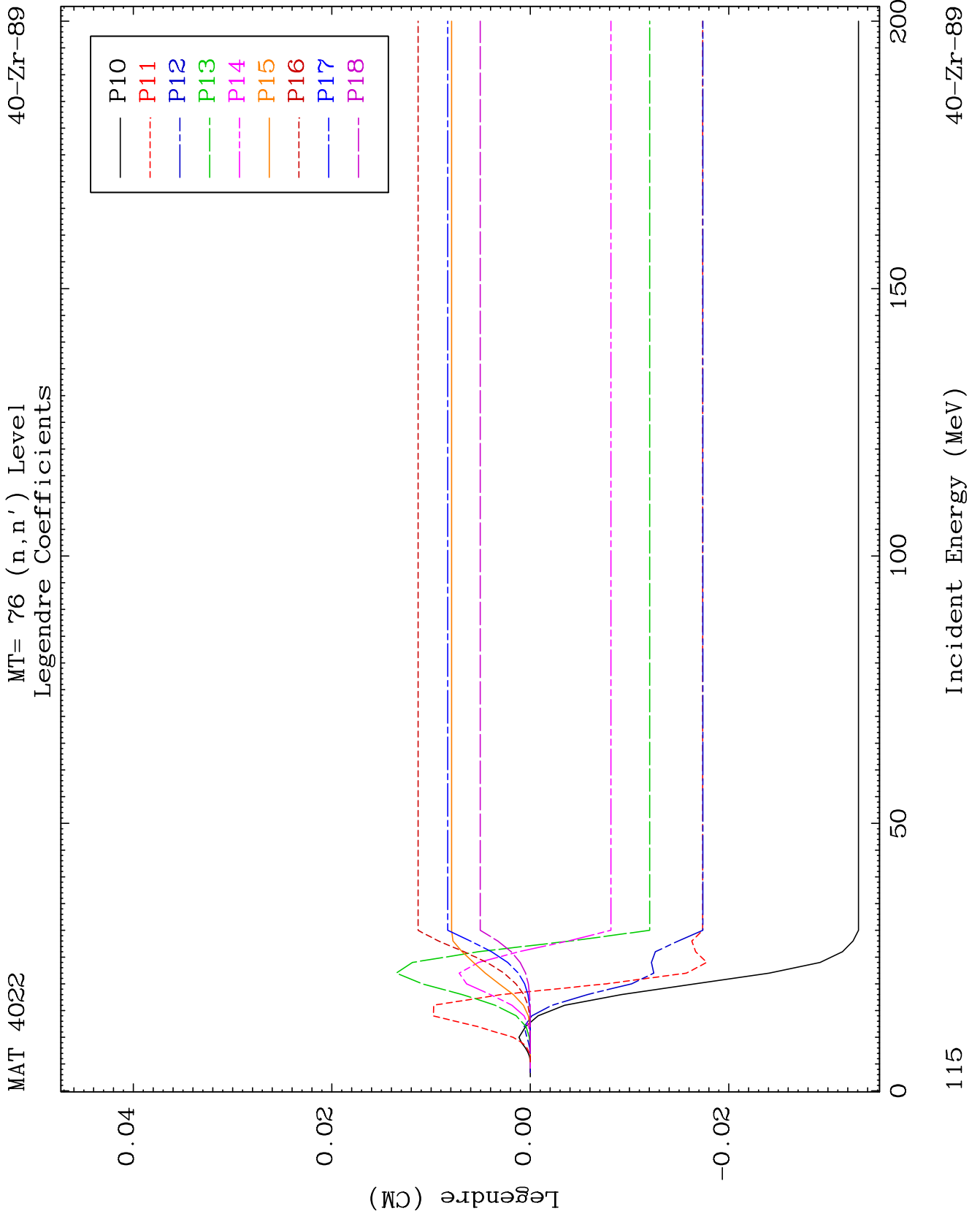








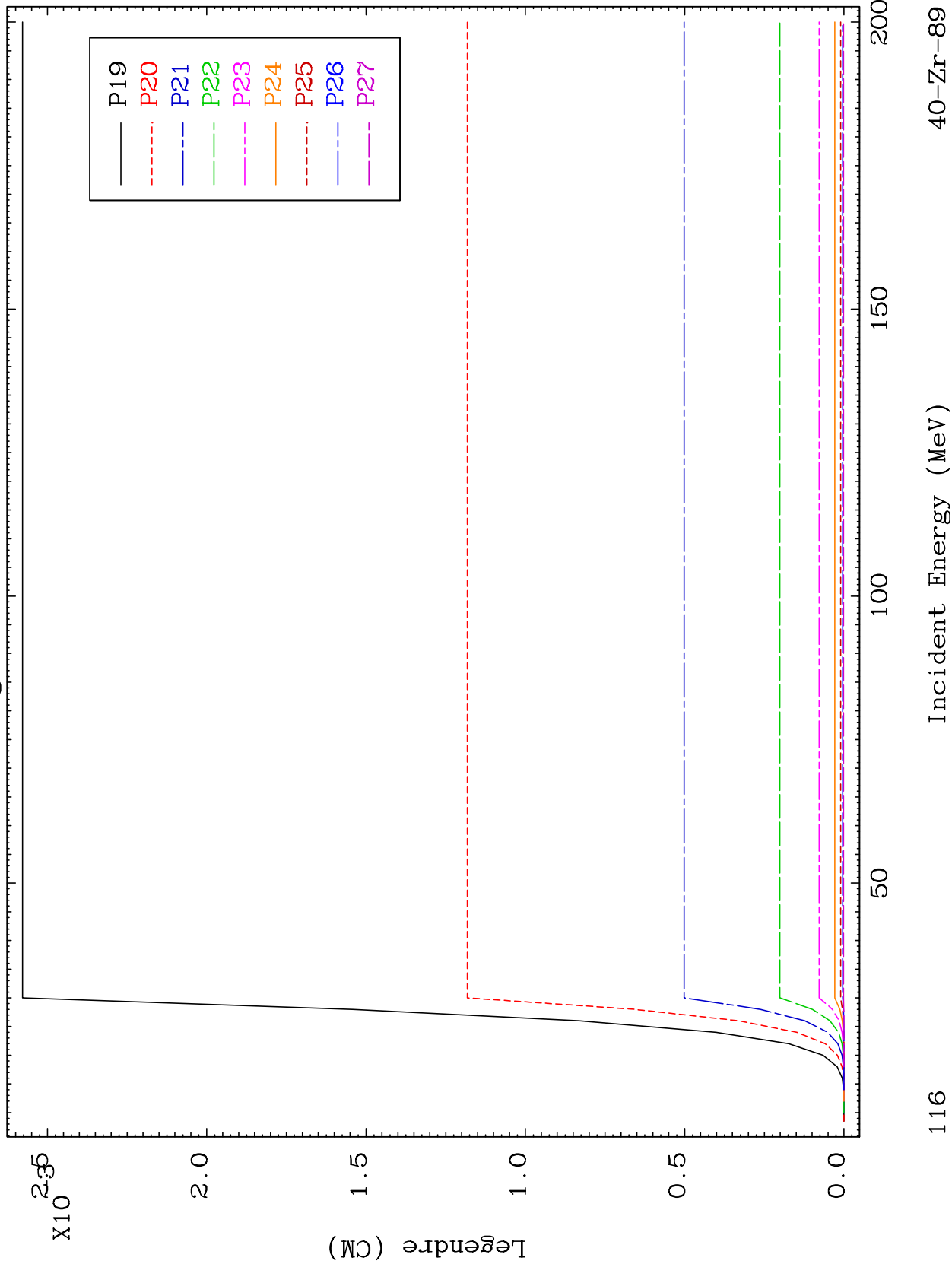




MAT 4022

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

40-Zr-89



116

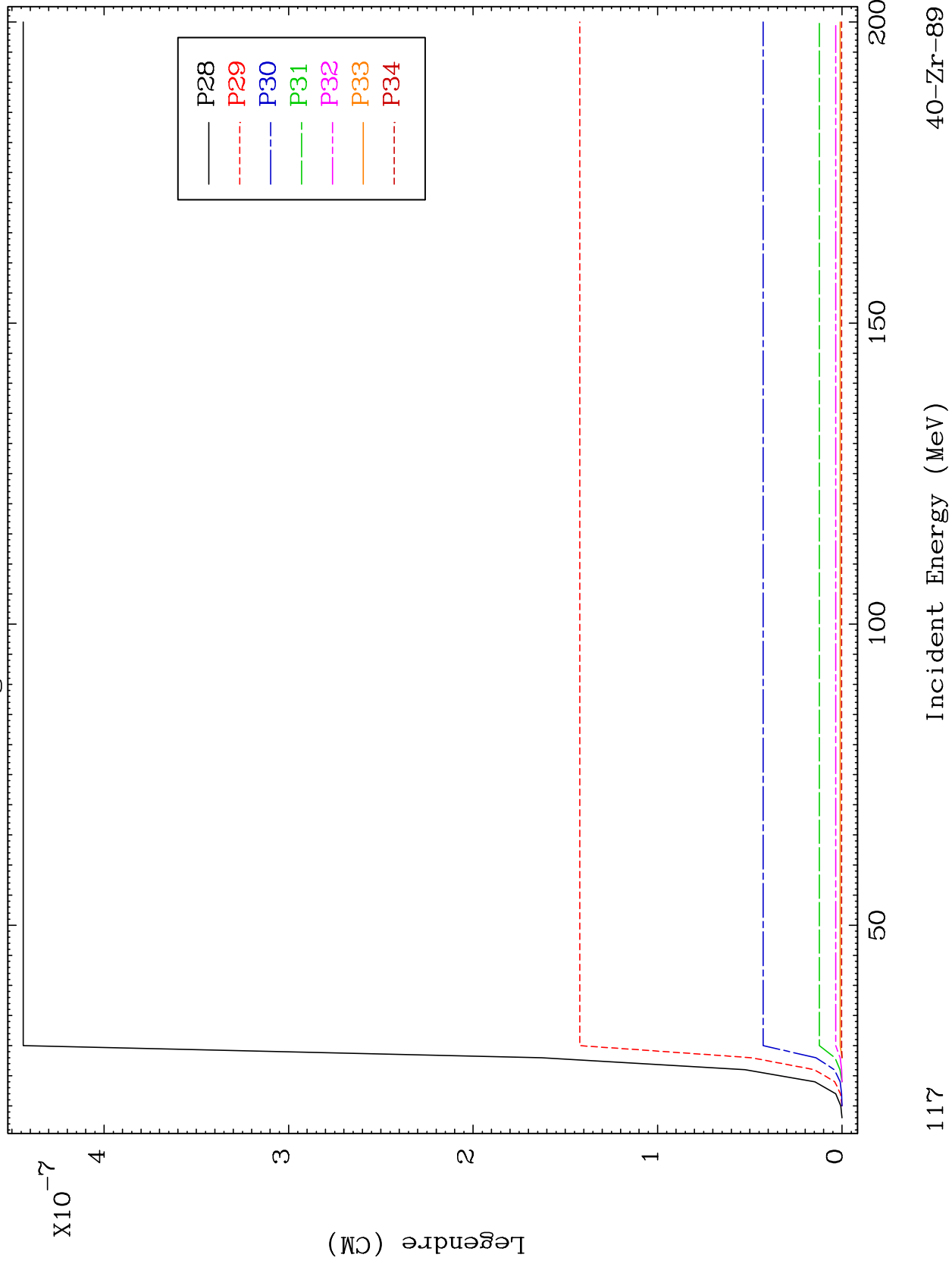
Incident Energy (MeV)

40-Zr-89

MAT 4022

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

40-Zr-89

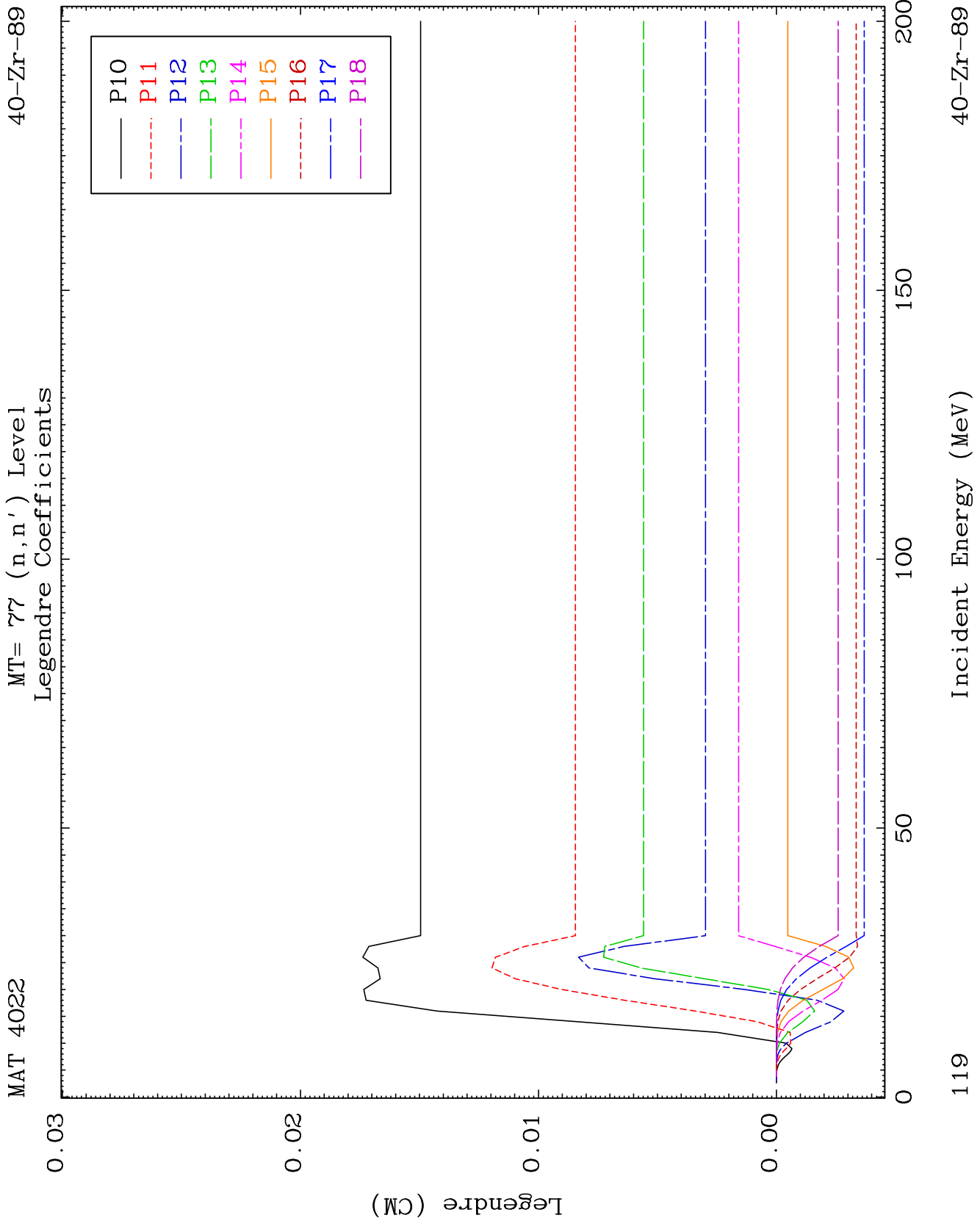


117

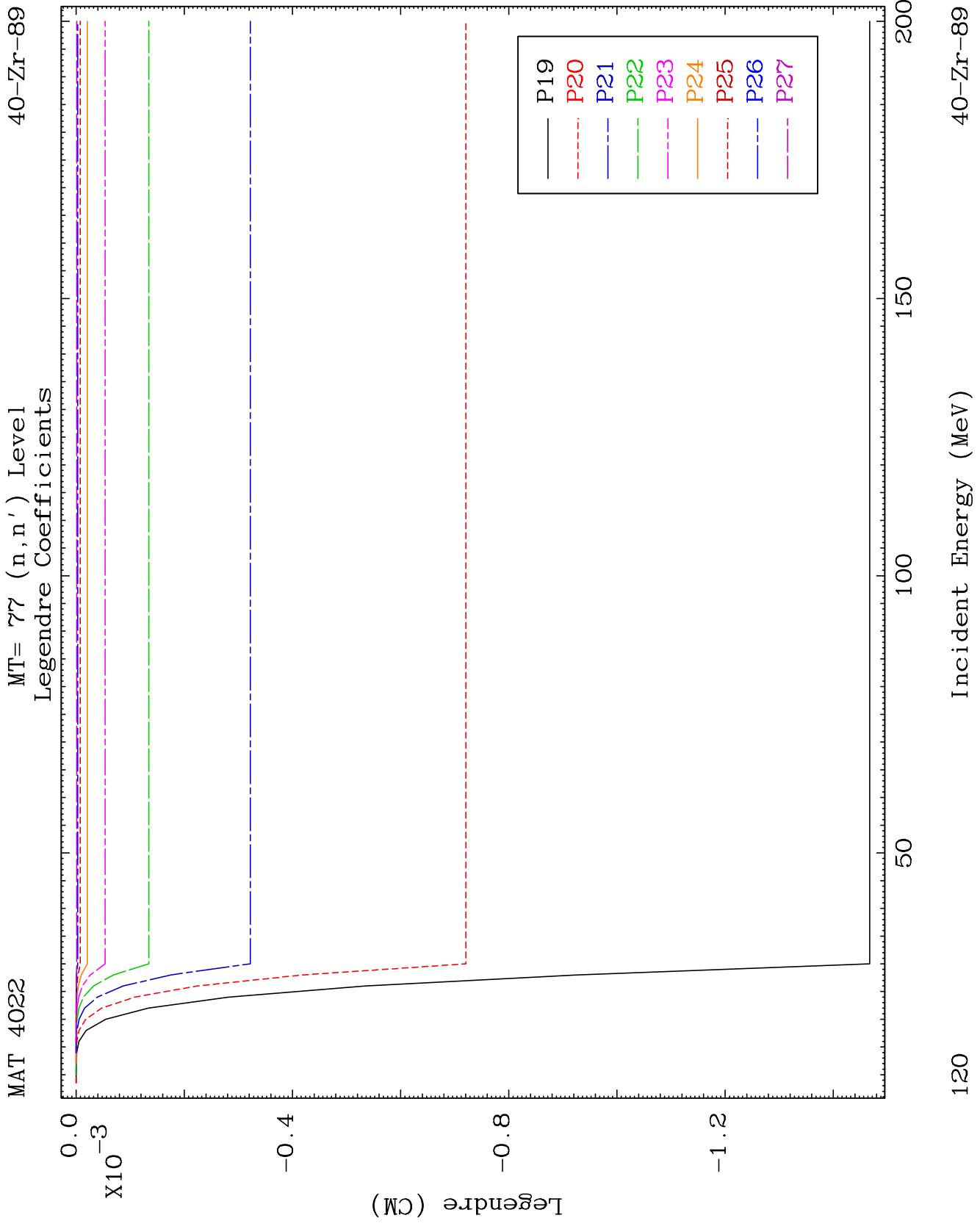
Incident Energy (MeV)

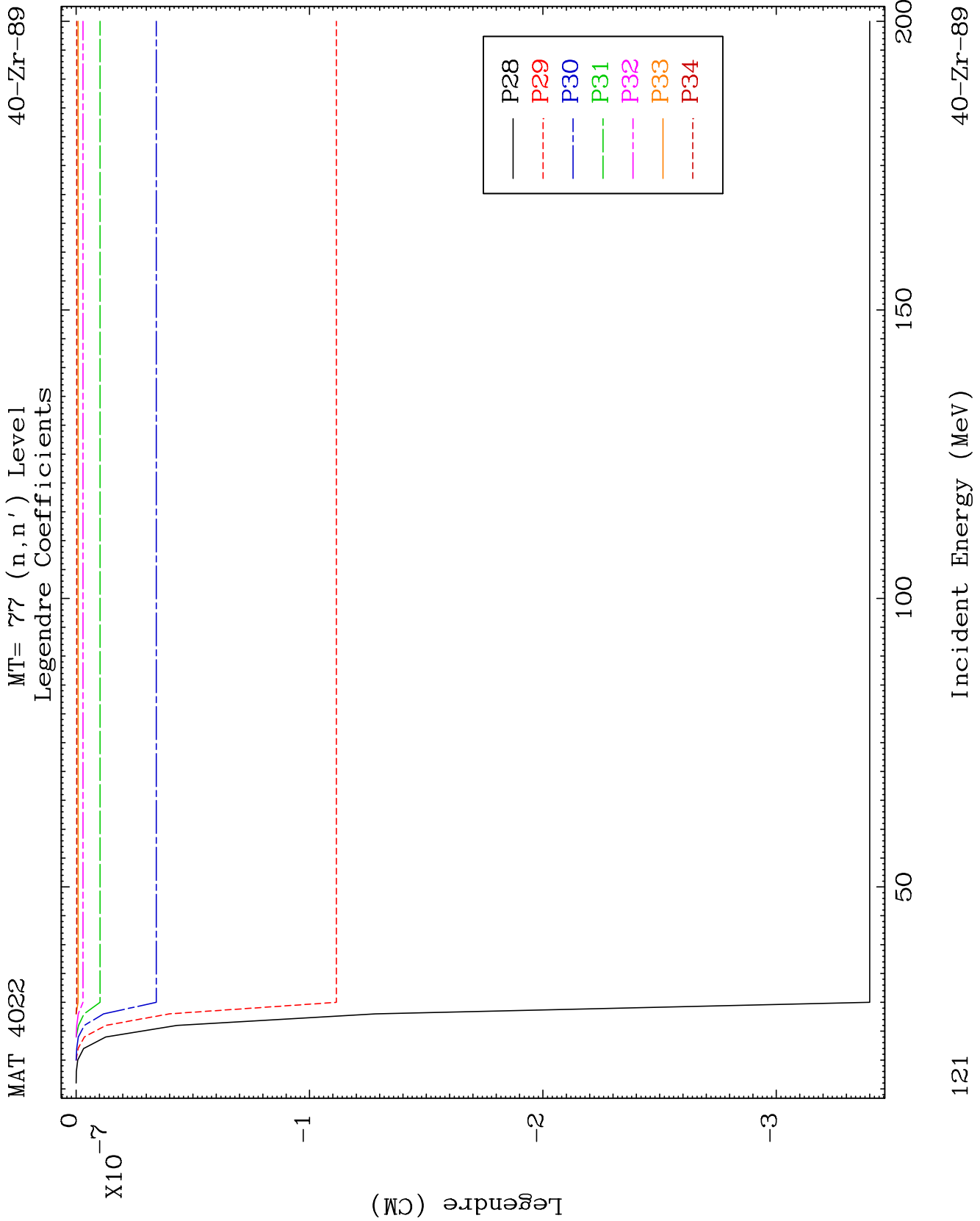
40-Zr-89







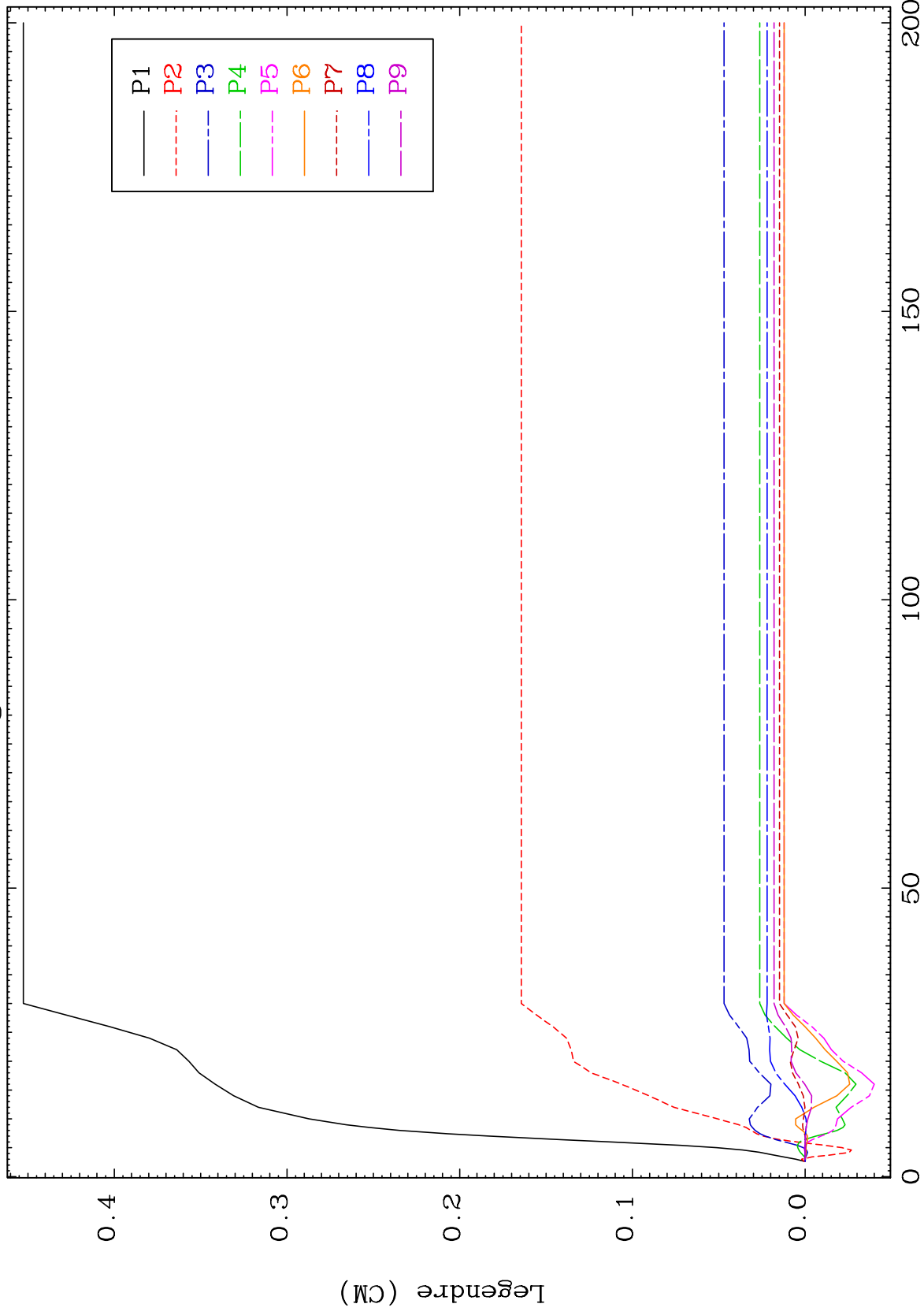




MAT 4022

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

40-Zr-89



122

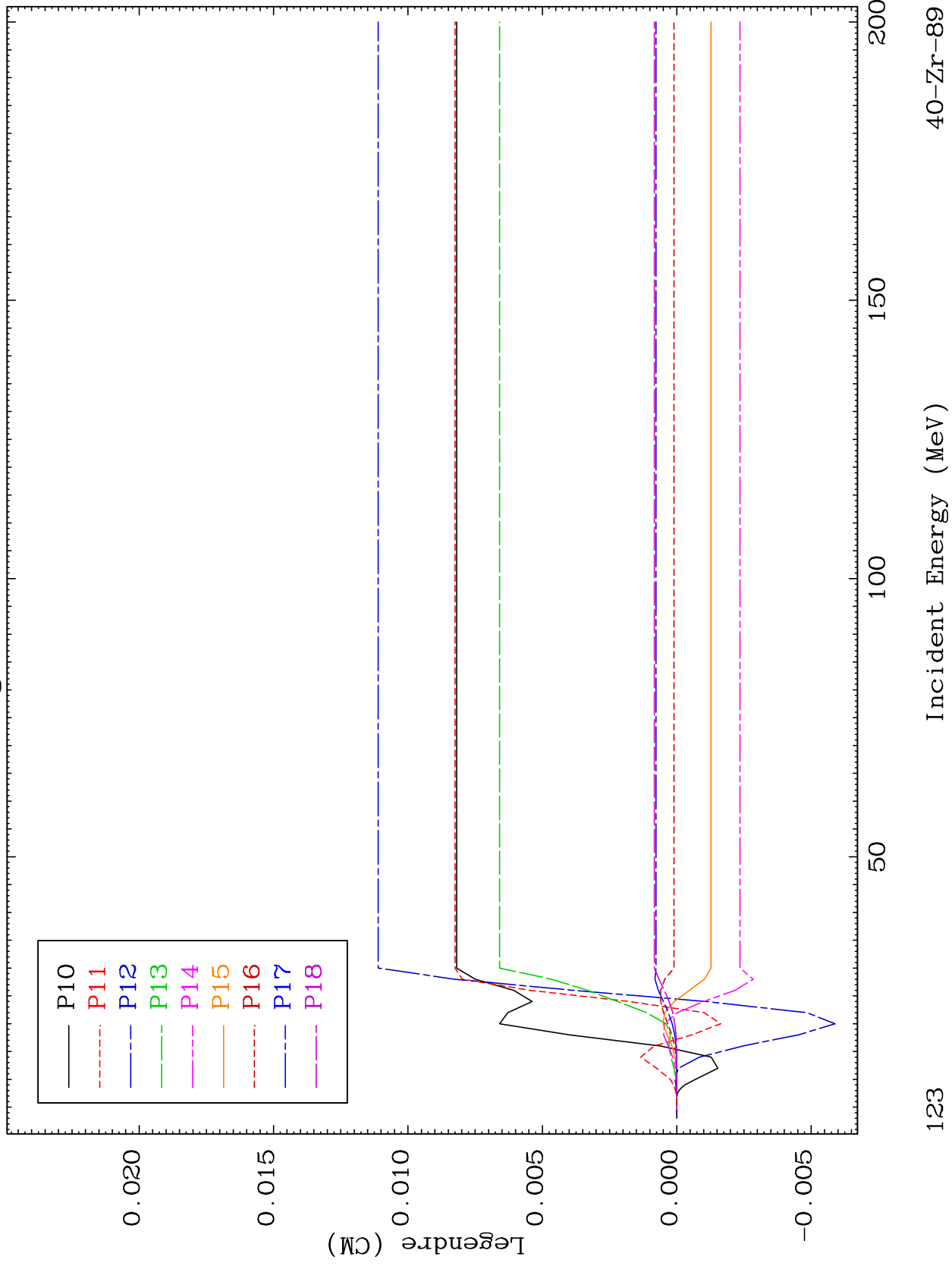
Incident Energy (MeV)

40-Zr-89

MAT 4022

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

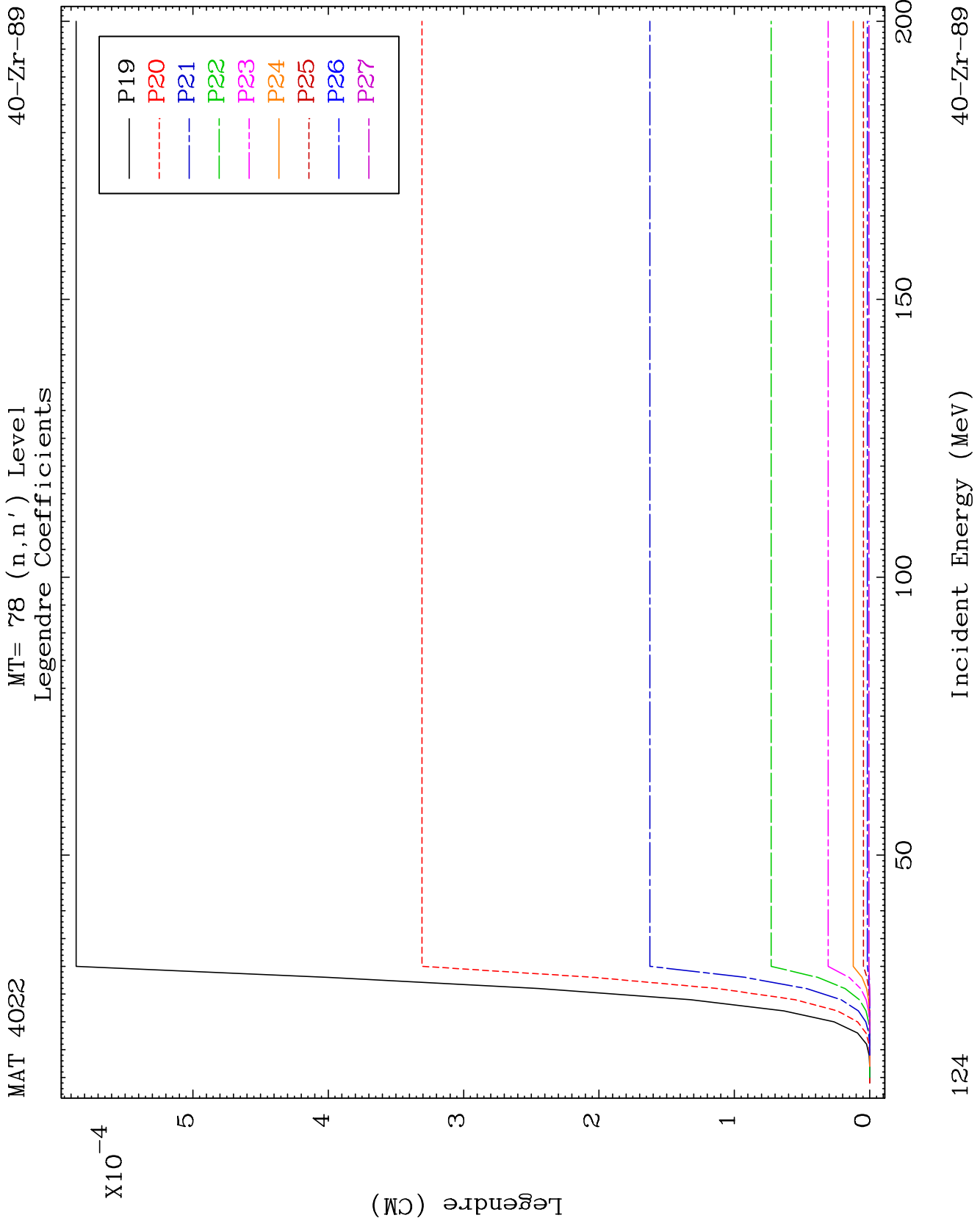
40-Zr-89



123

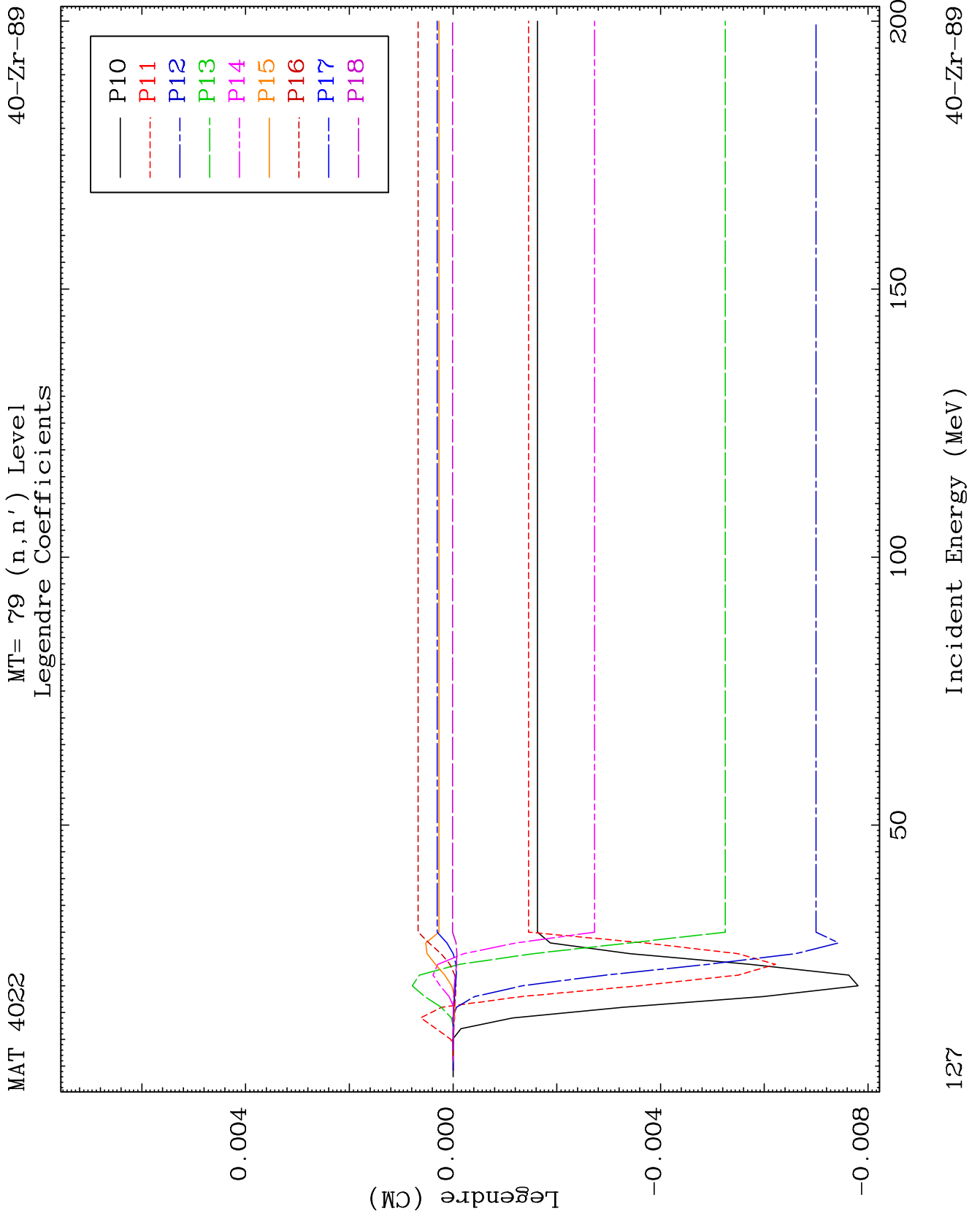
Incident Energy (MeV)

40-Zr-89







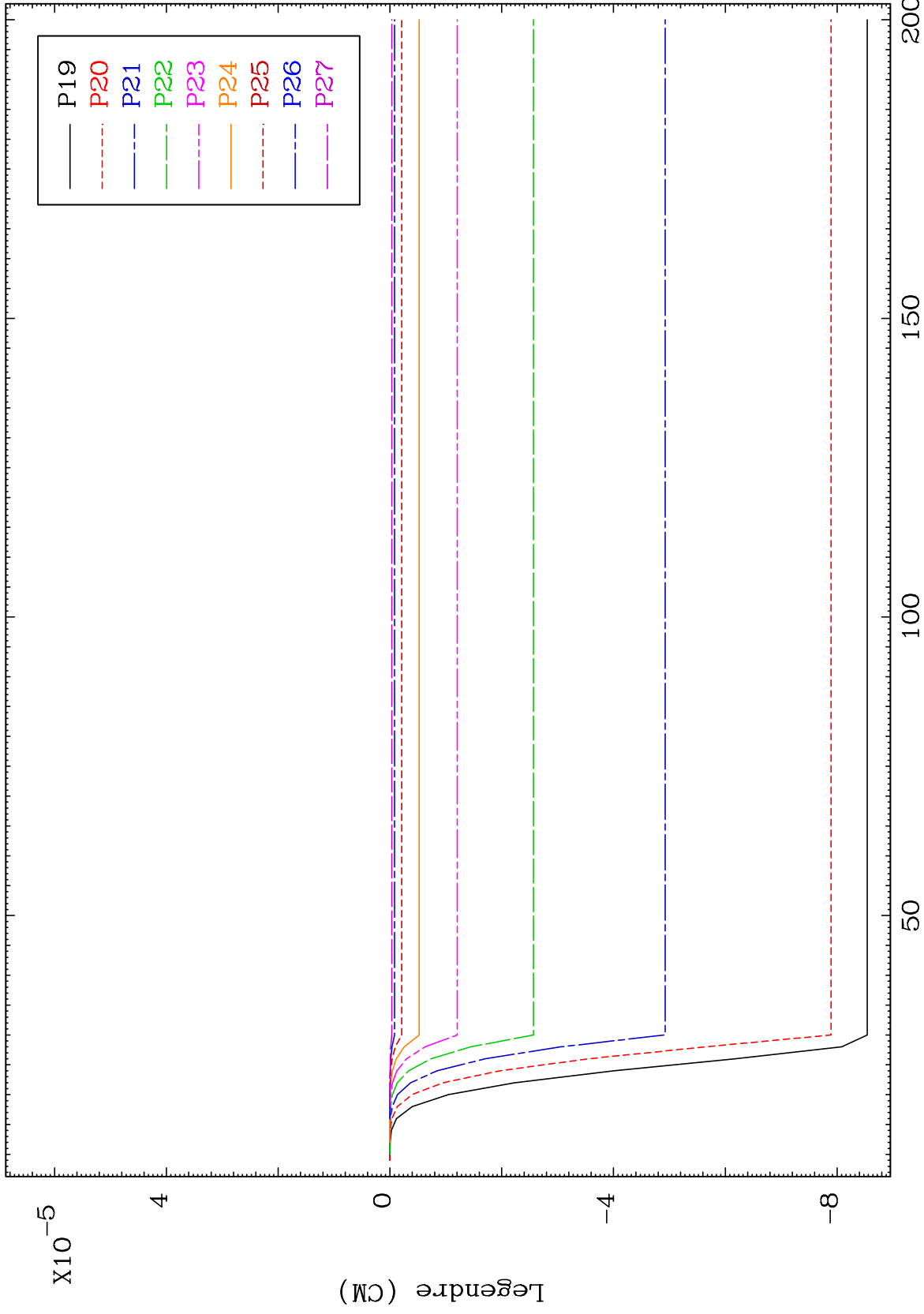




MAT 4022

MT= 79 (n,n') Level  
Legendre Coefficients

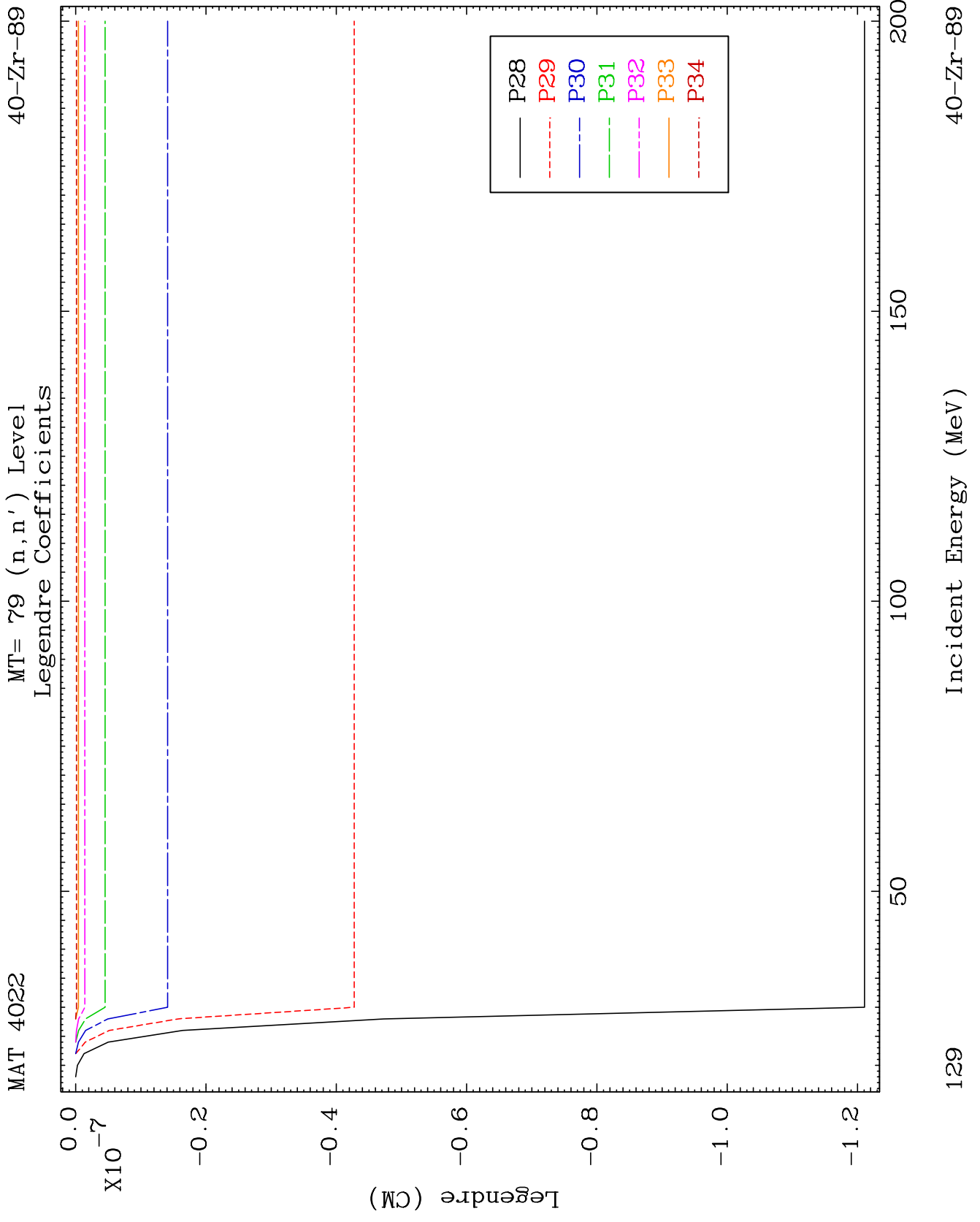
40-Zr-89



128

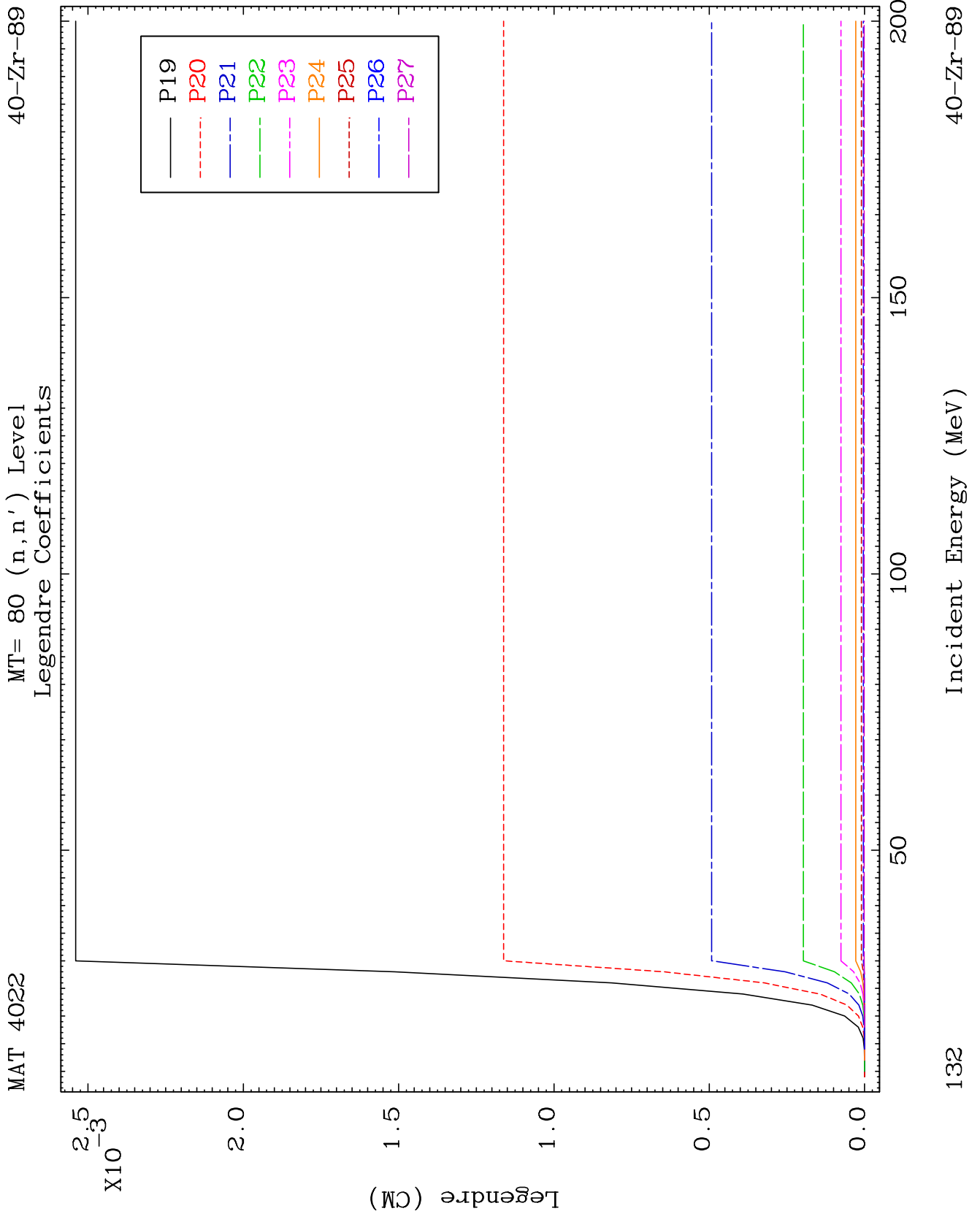
Incident Energy (MeV)

40-Zr-89







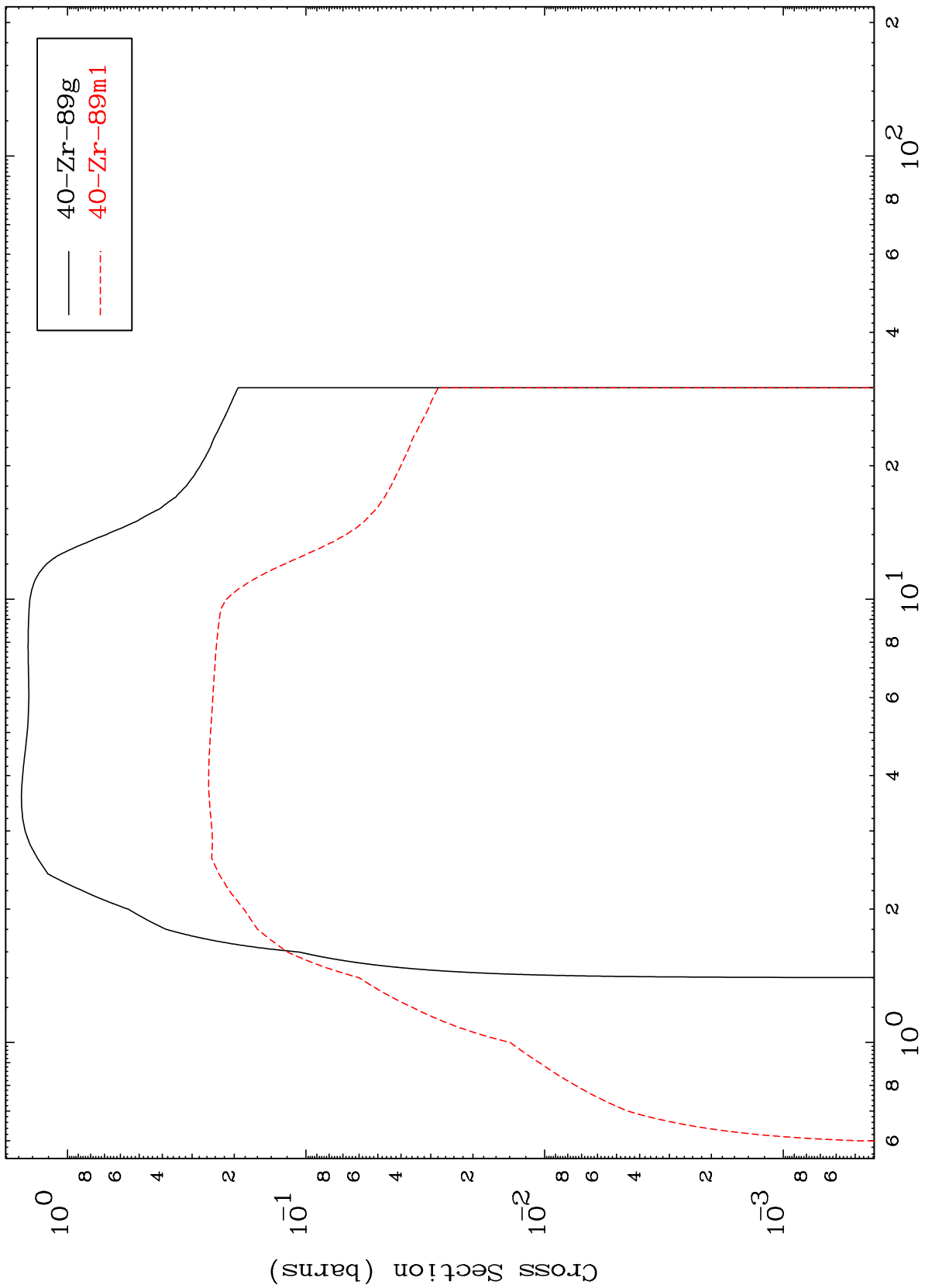




MAT 4022

40-Zr-89

### Inelastic Radionuclide Production Cross Section



134

Incident Energy (MeV)

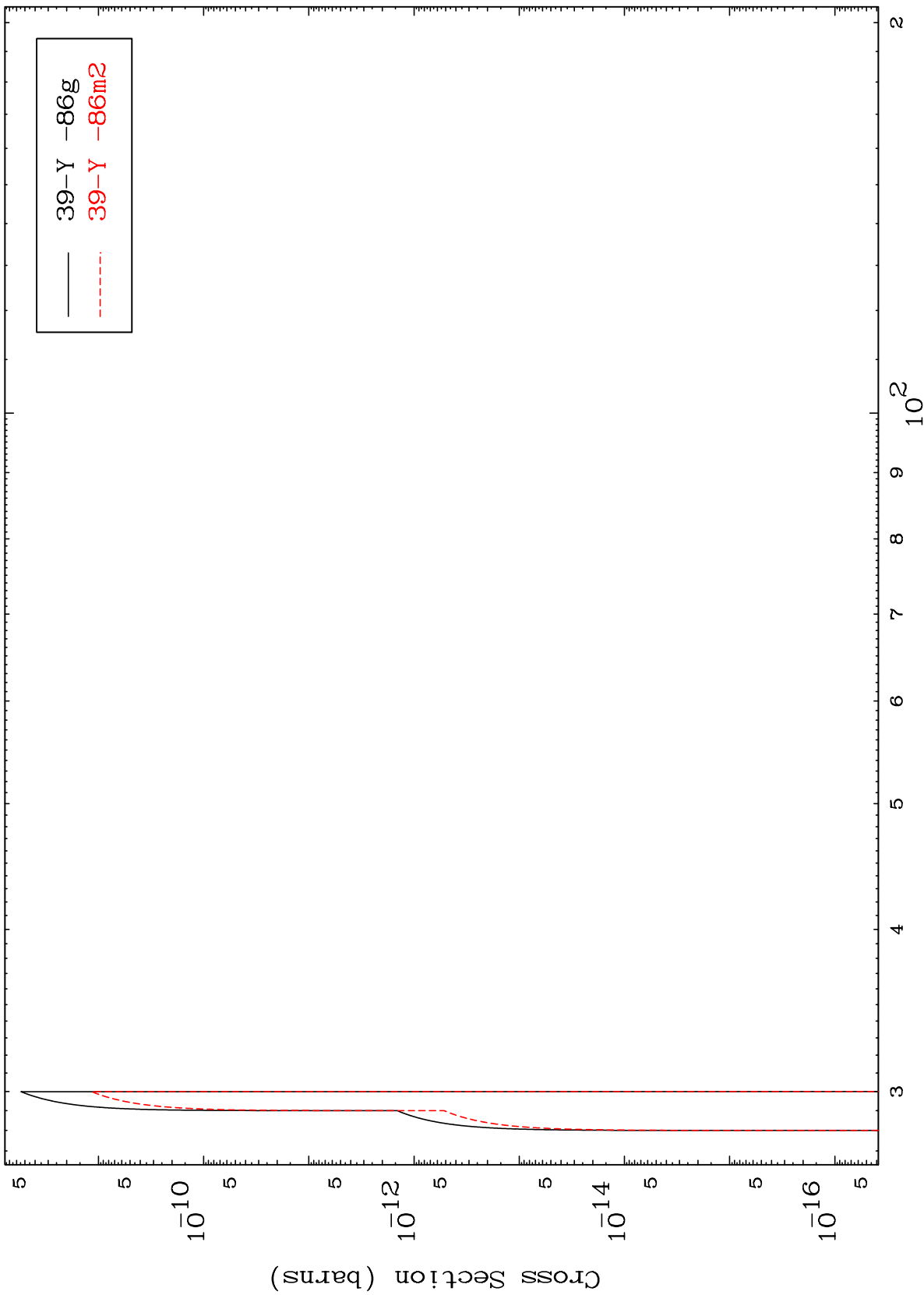
40-Zr-89

MAT 4022

(n,2n) d

40-Zr-89

Radionuclide Production Cross Section



135

Incident Energy (MeV)

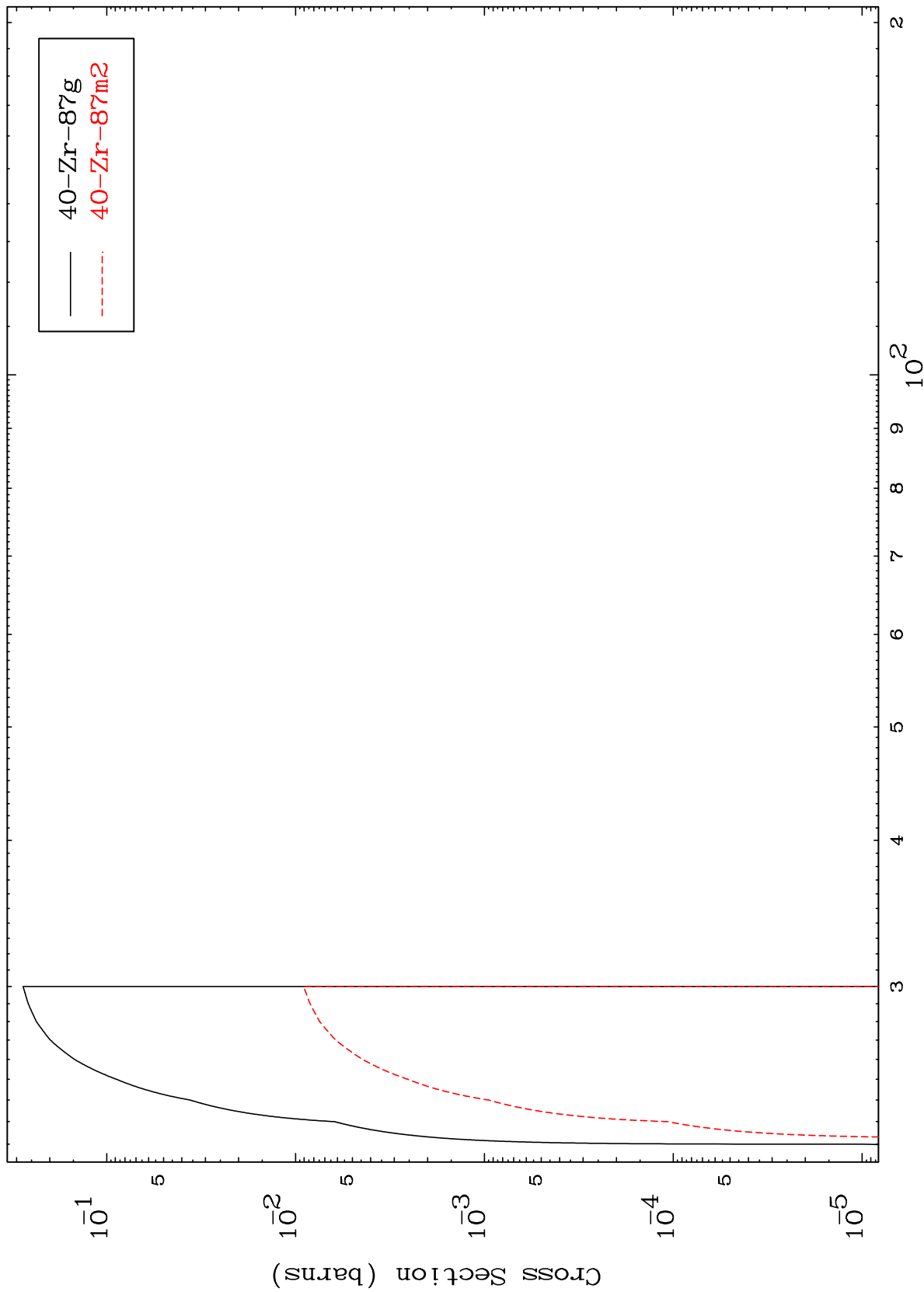
40-Zr-89



MAT 4022

40-Zr-89

(n,3n)  
Radionuclide Production Cross Section



136

40-Zr-89

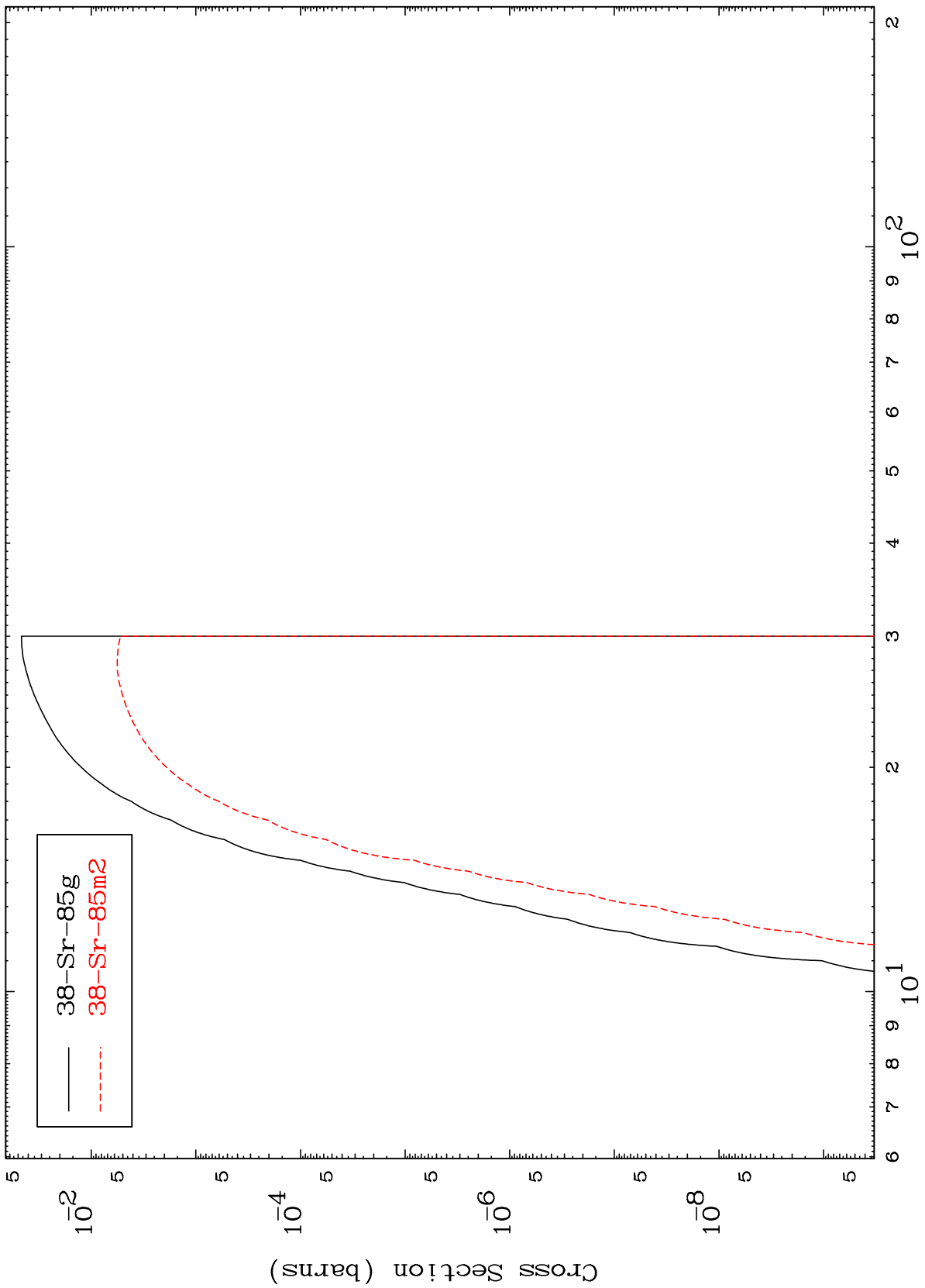
Incident Energy (MeV)

MAT 4022

(n,n')  $\alpha$

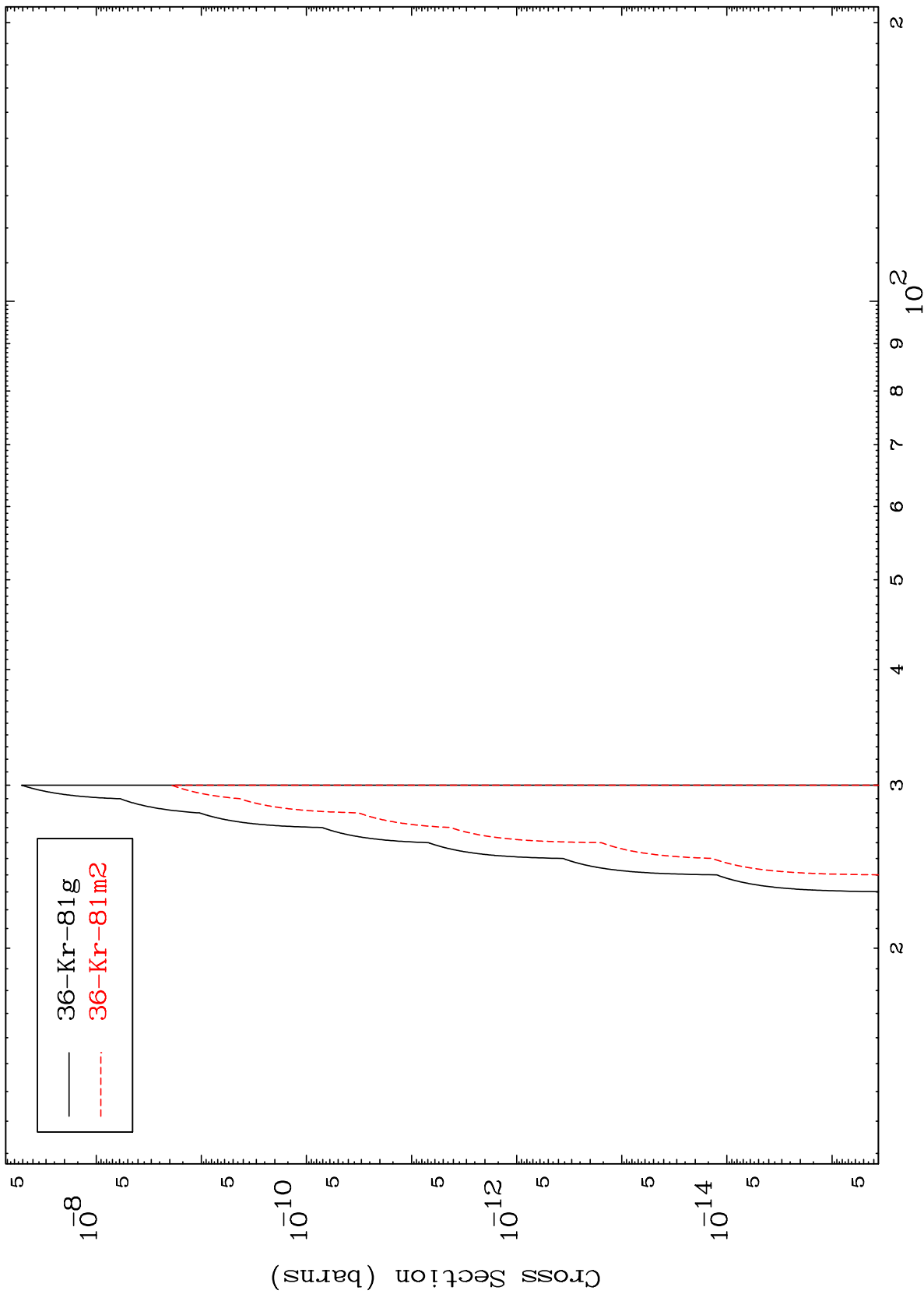
40-Zr-89

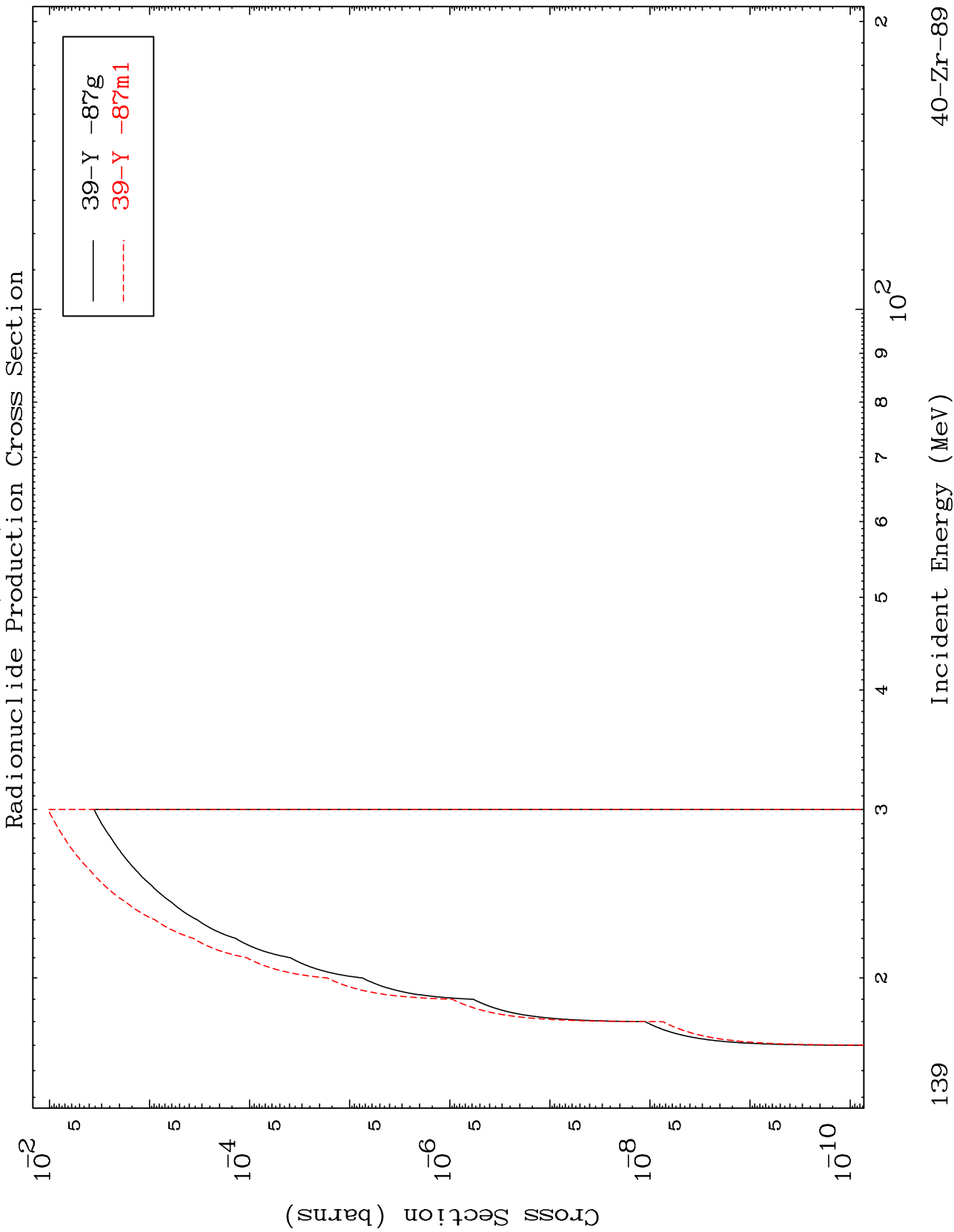
Radionuclide Production Cross Section



38-Sr-85g  
38-Sr-85m2

(n,n') 2 $\alpha$   
Radionuclide Production Cross Section



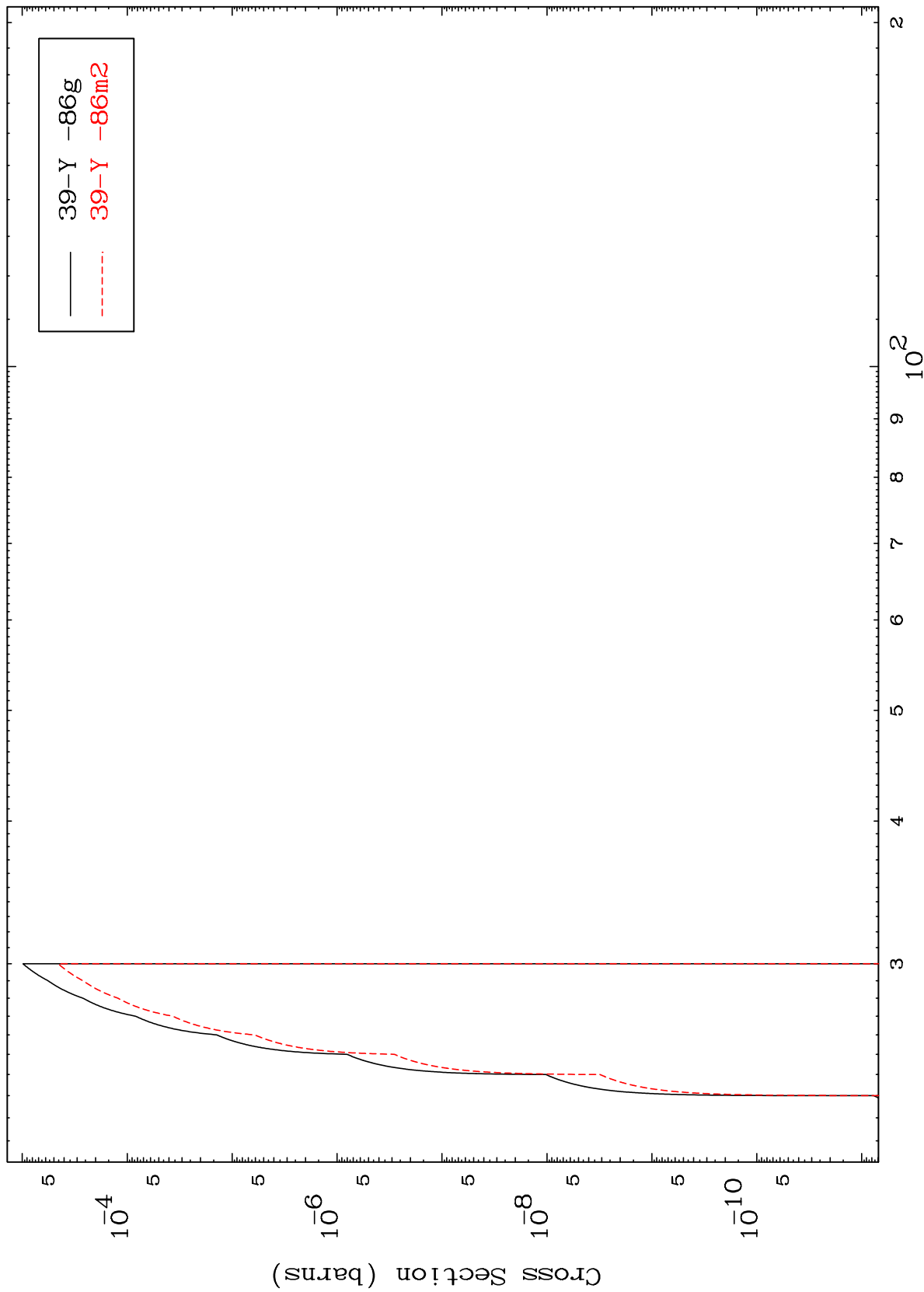


MAT 4022

(n,n') t

40-Zr-89

Radionuclide Production Cross Section

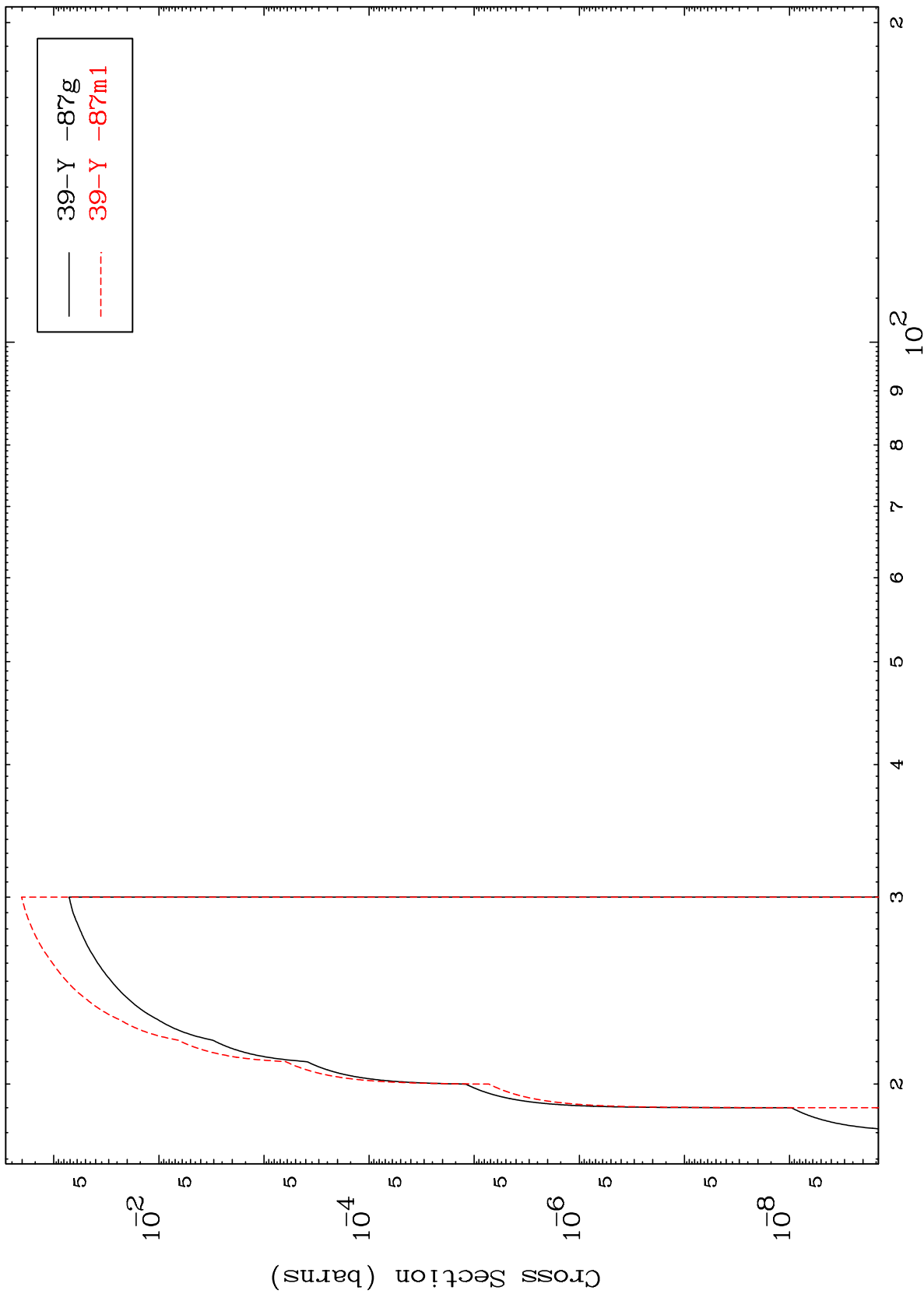


140

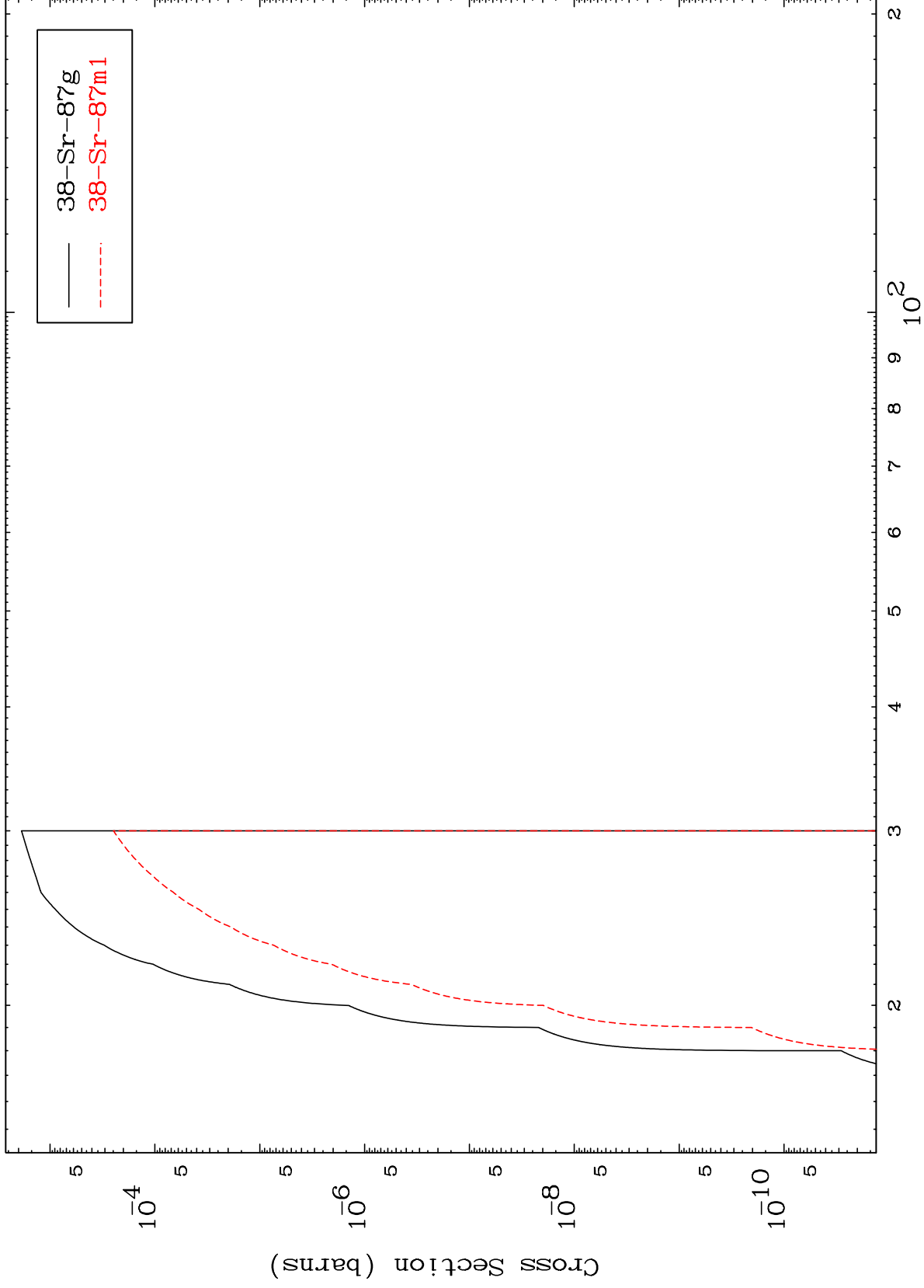
Incident Energy (MeV)

40-Zr-89

Radionuclide Production Cross Section



Radionuclide Production Cross Section

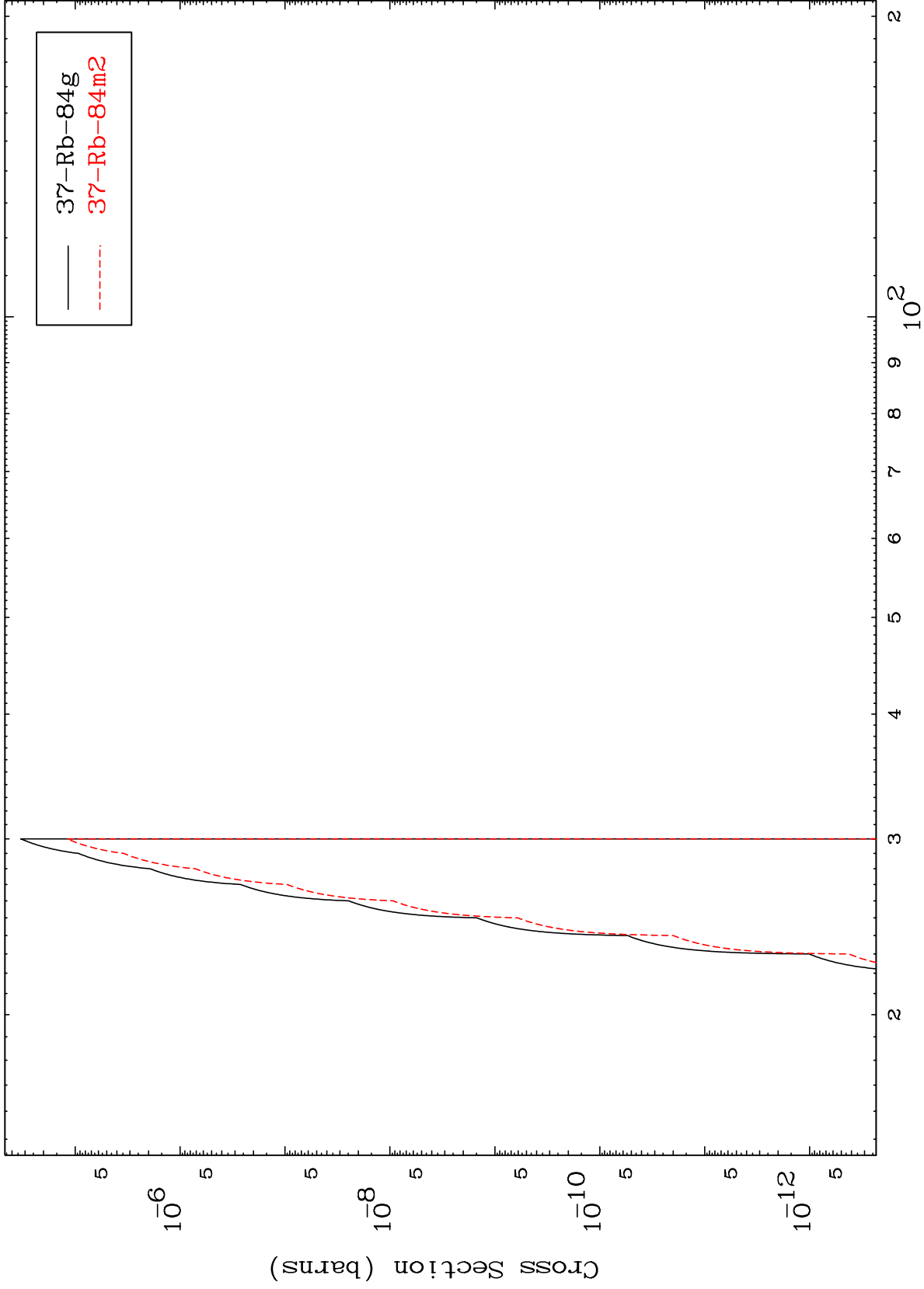


MAT 4022

(n,n') p  $\alpha$

40-Zr-89

Radionuclide Production Cross Section



143

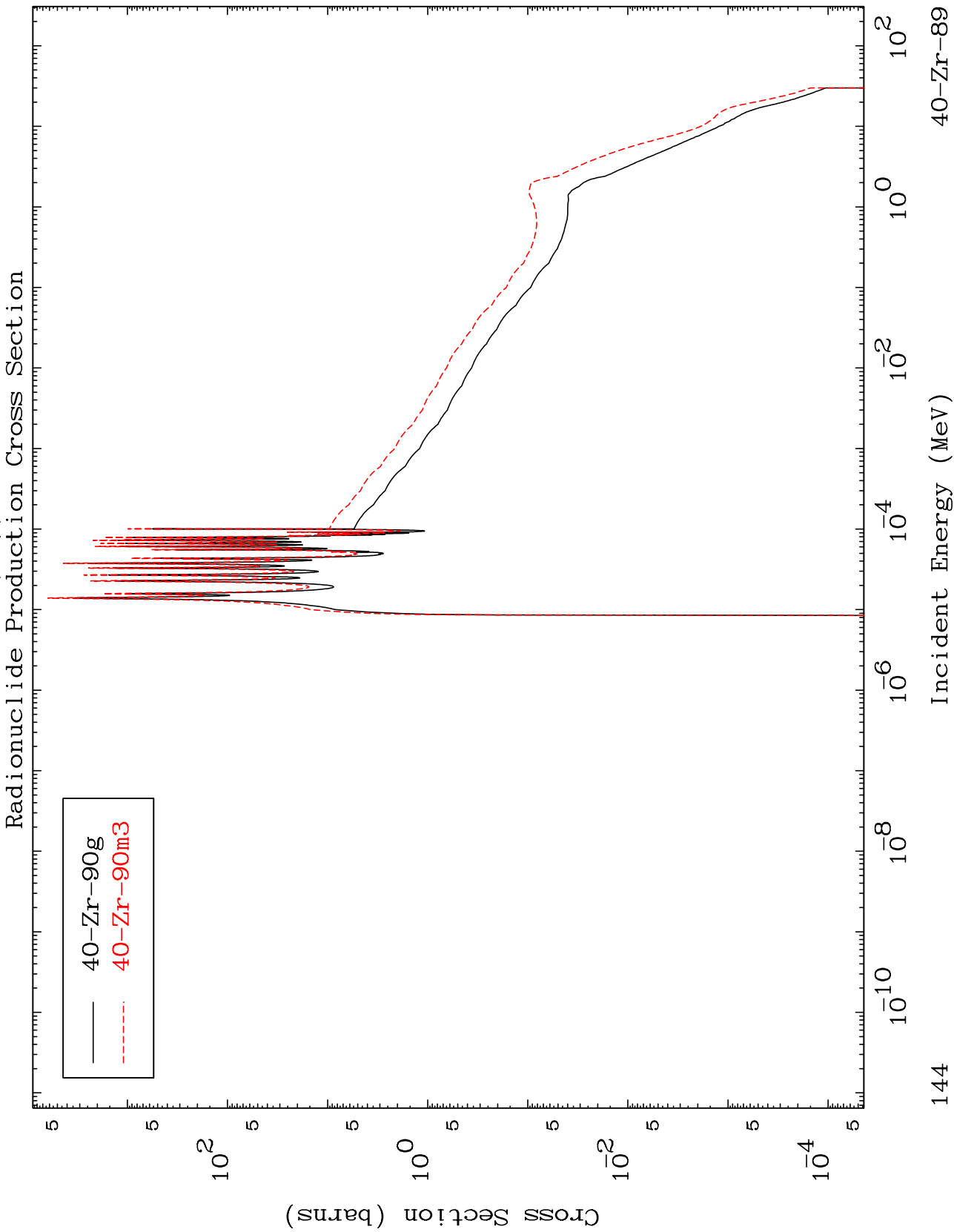
Incident Energy (MeV)

40-Zr-89



MAT 4022

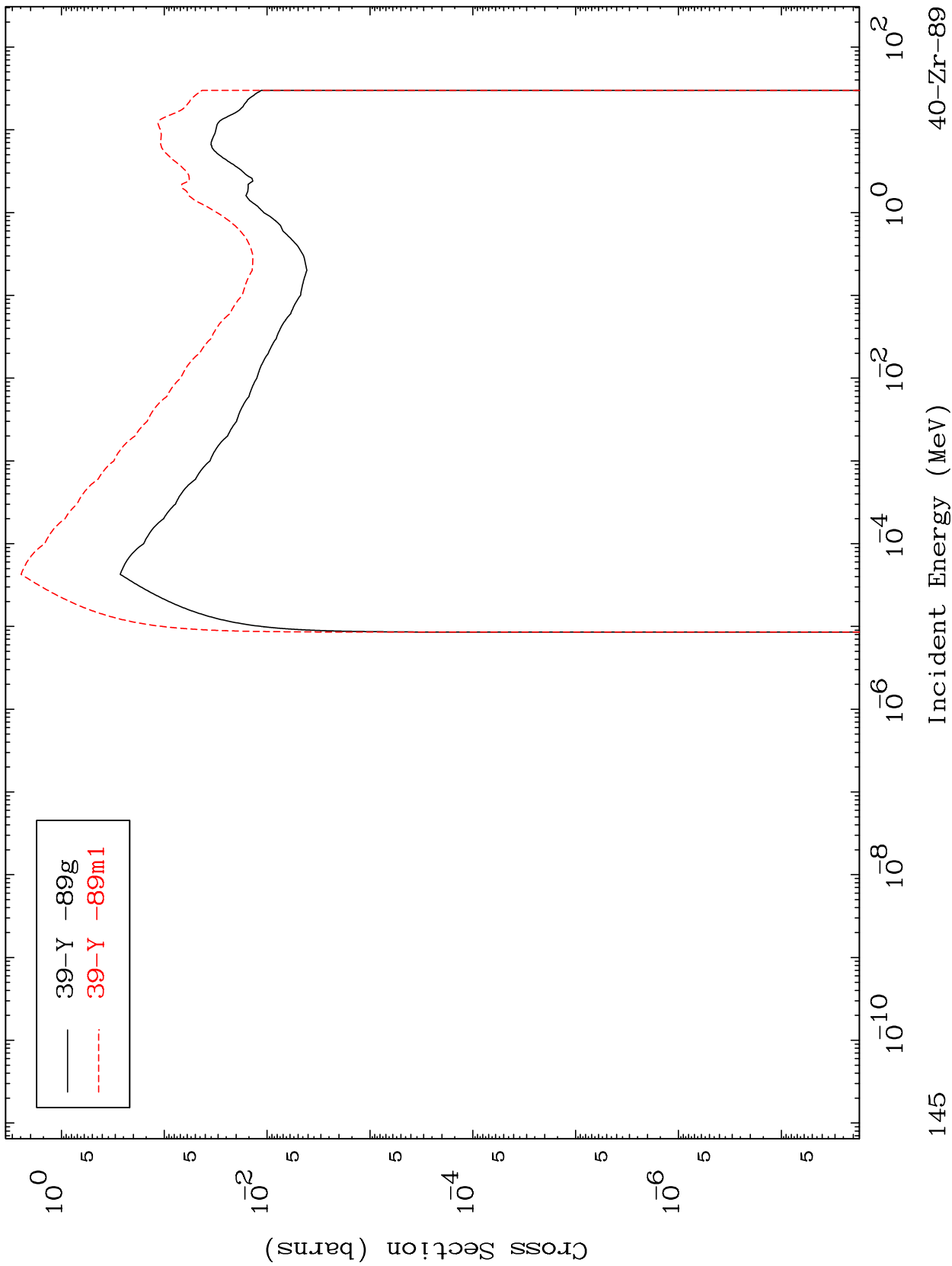
40-Zr-89



MAT 4022

40-Zr-89

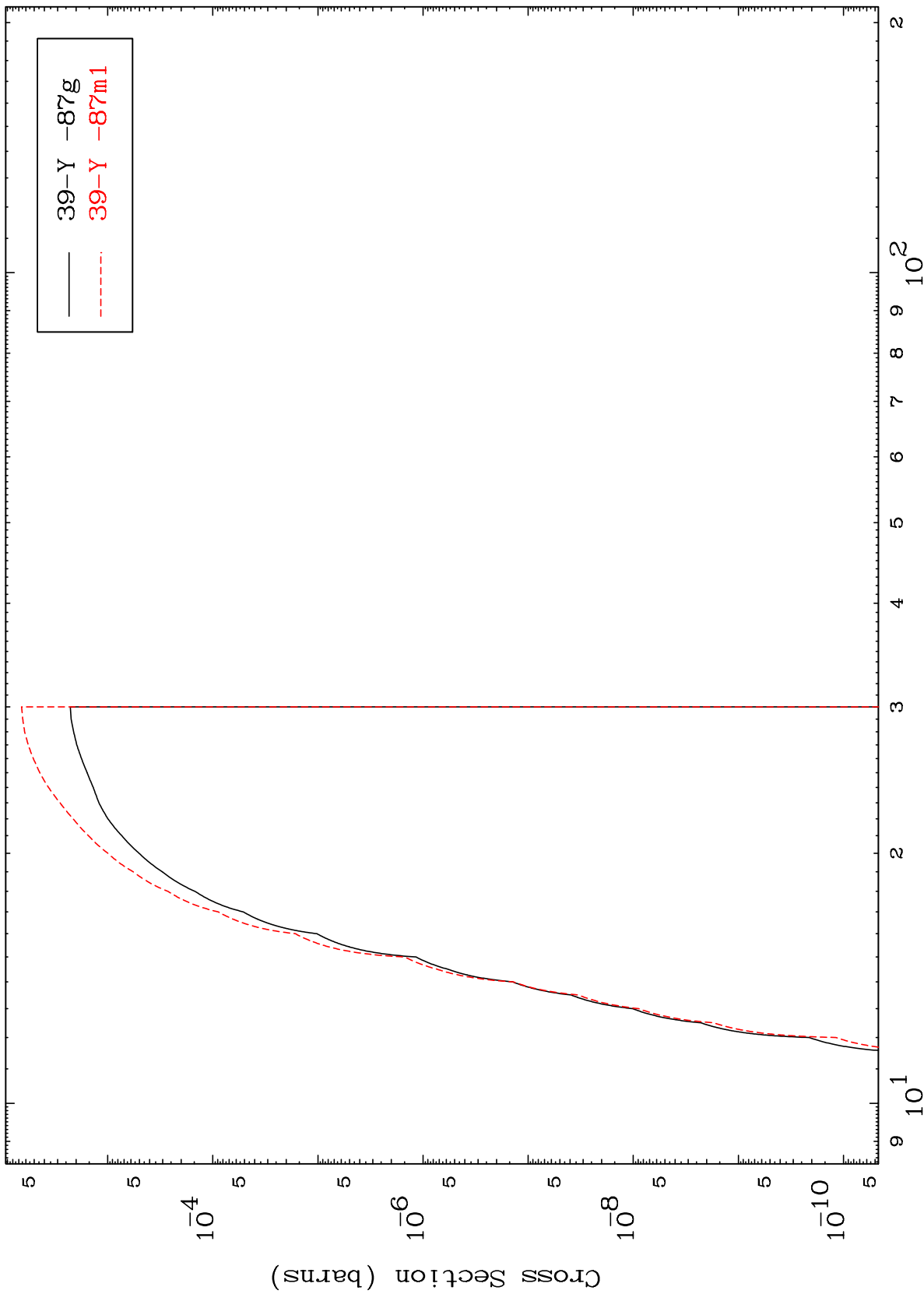
(n,p)  
Radionuclide Production Cross Section



MAT 4022

40-Zr-89

(n,t)  
Radionuclide Production Cross Section



40-Zr-89

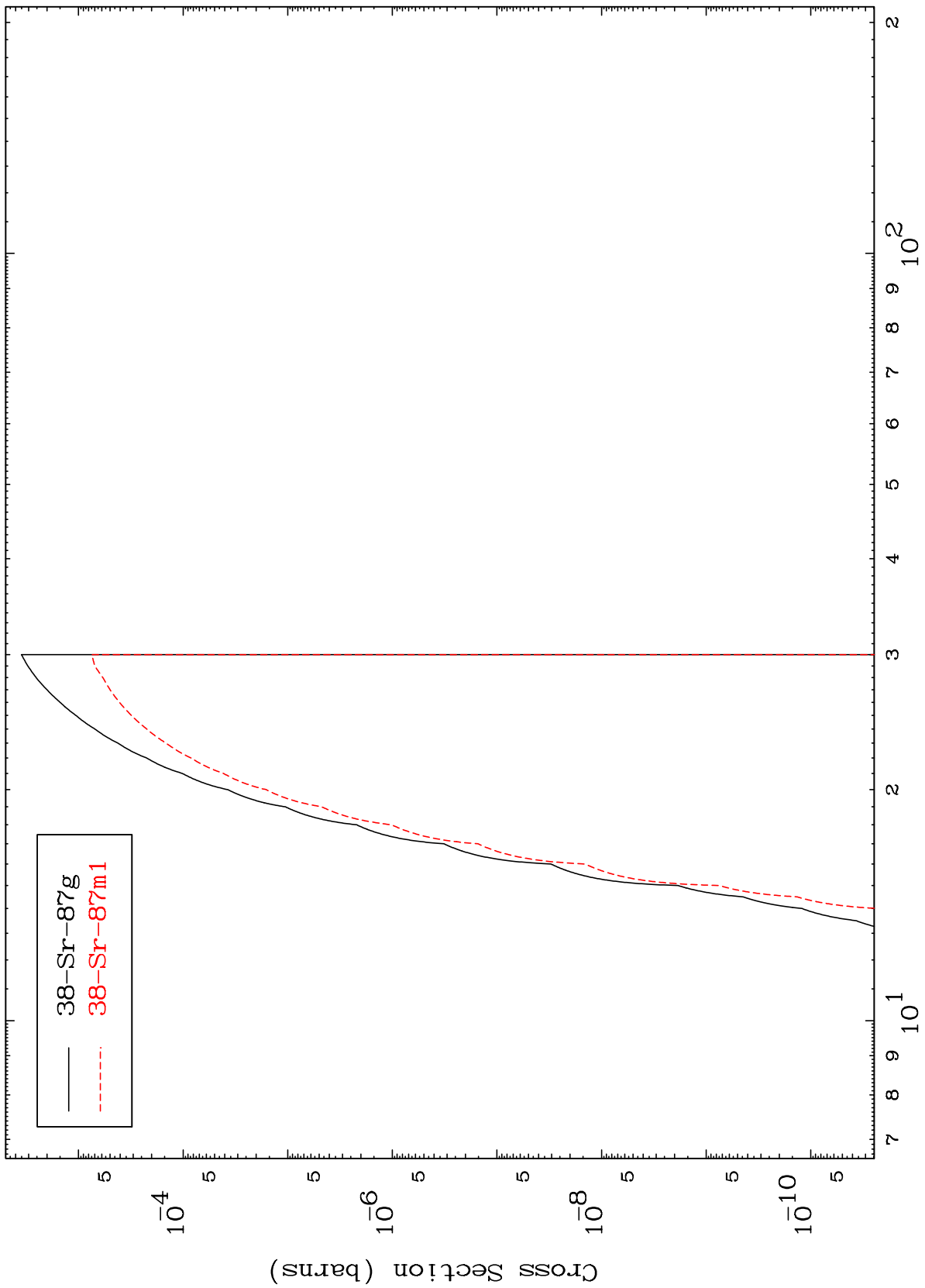
Incident Energy (MeV)

146

MAT 4022

40-Zr-89

Radionuclide Production Cross Section  
(n,He-3)



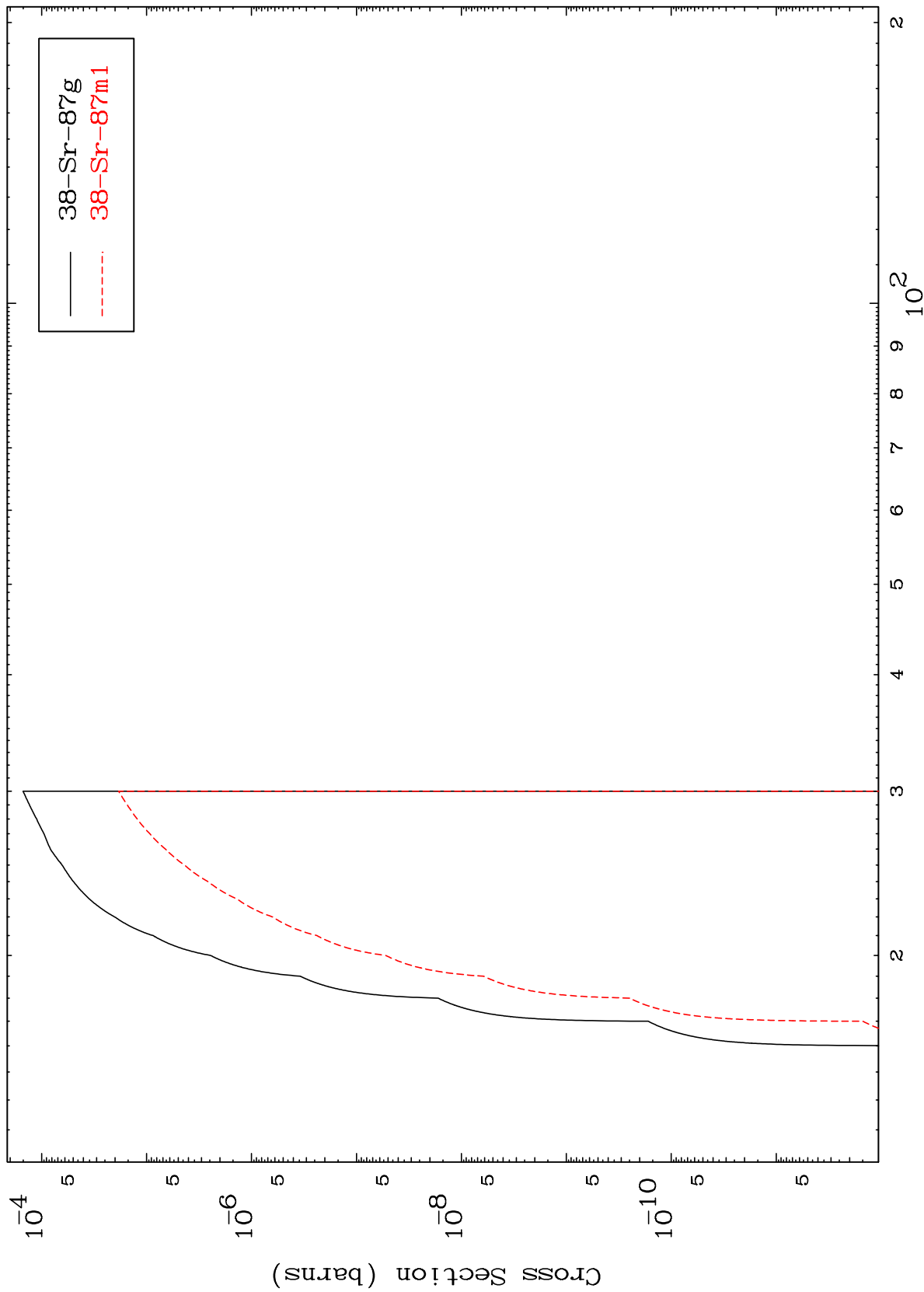
— 38-Sr-87g  
- - - 38-Sr-87m1

40-Zr-89

Incident Energy (MeV)

147

Radionuclide Production Cross Section

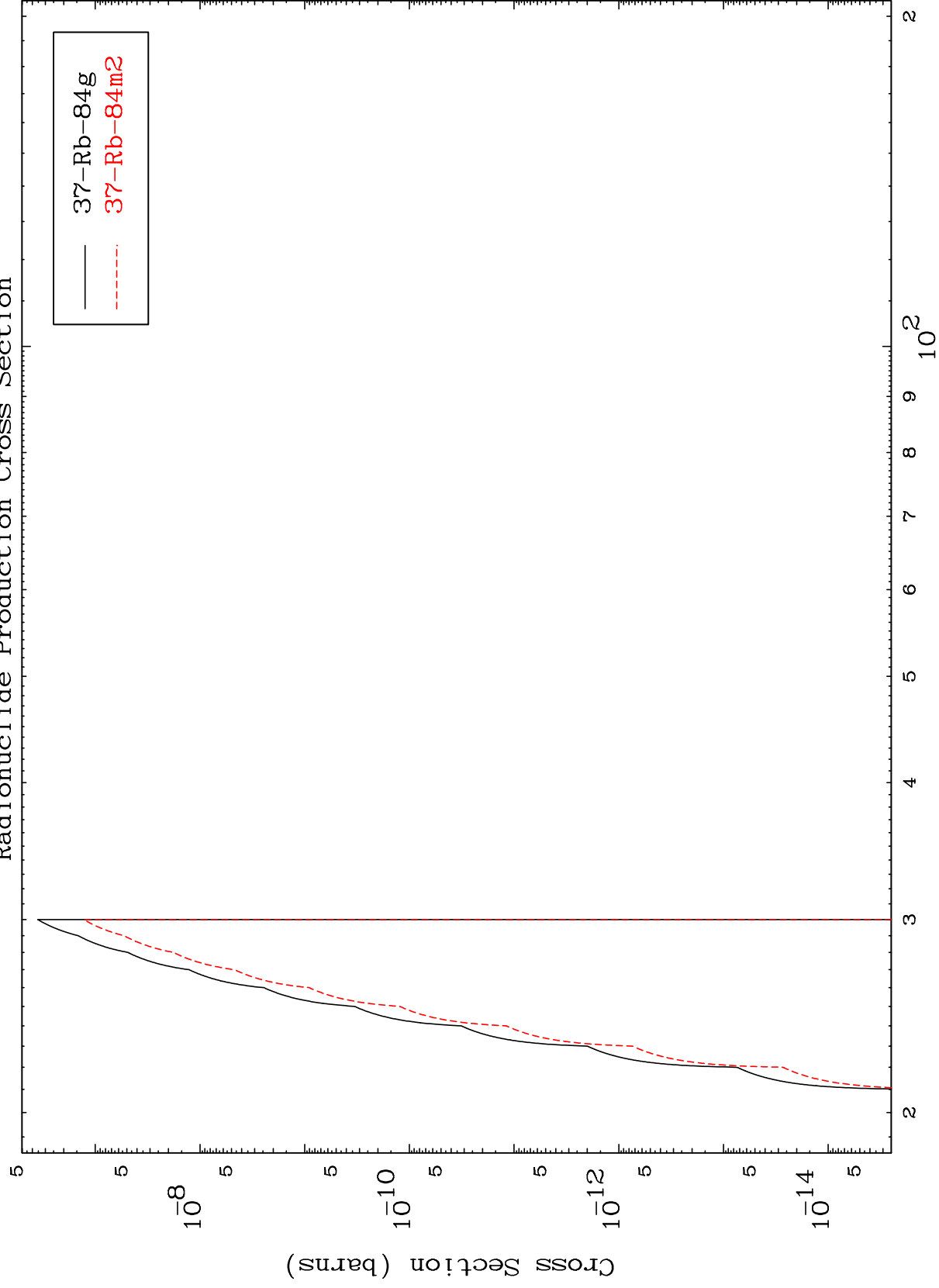


MAT 4022

(n,d)  $\alpha$

40-Zr-89

Radionuclide Production Cross Section



149

Incident Energy (MeV)

40-Zr-89