

Program EVALPLOT  
(Version 2018-1)

by

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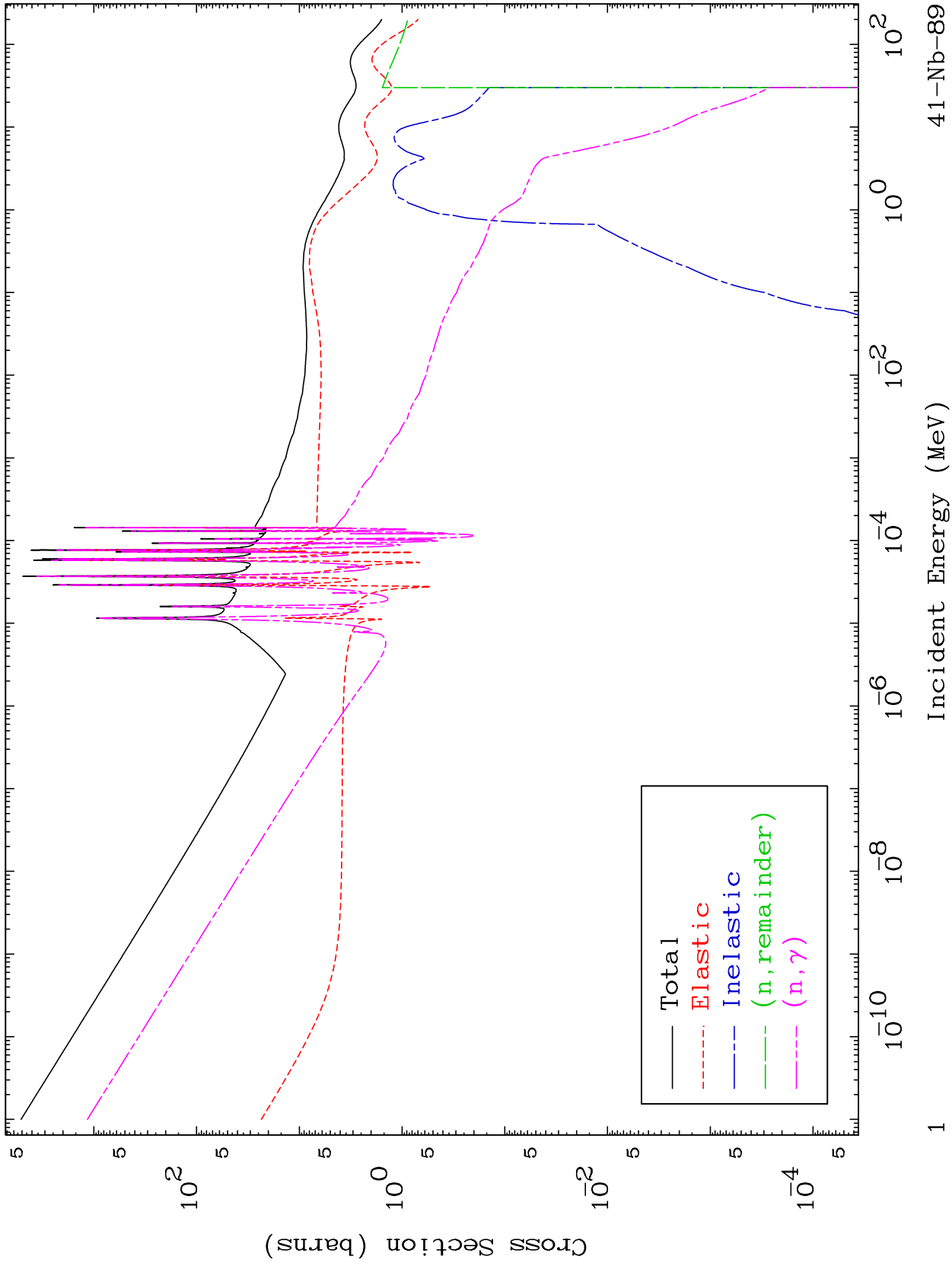
E.Mail:redcullen1@comcast.net  
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 4113

Major  
293 Kelvin Cross Sections

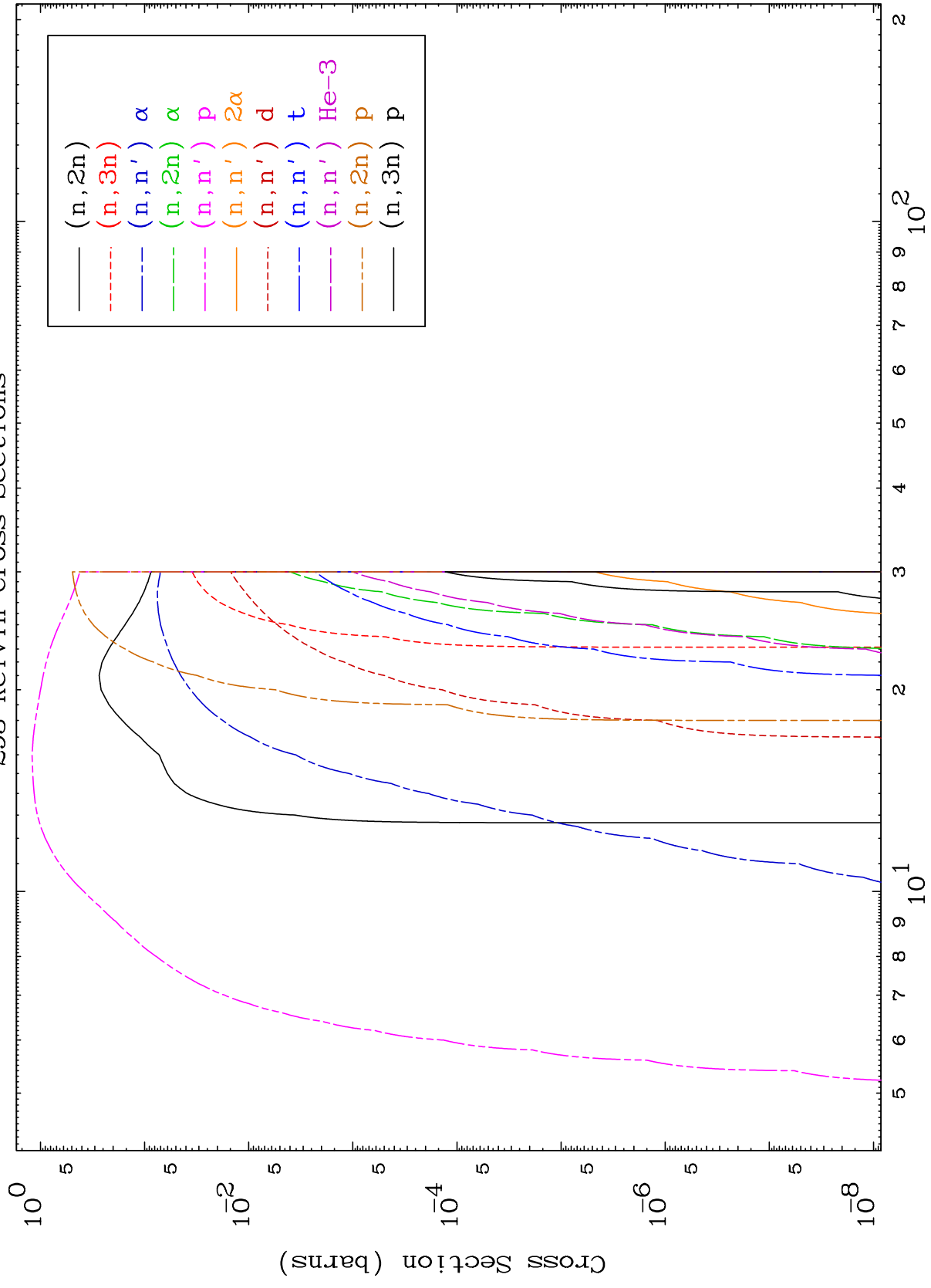
41-Nb-89



MAT 4113

Neutron Production  
293 Kelvin Cross Sections

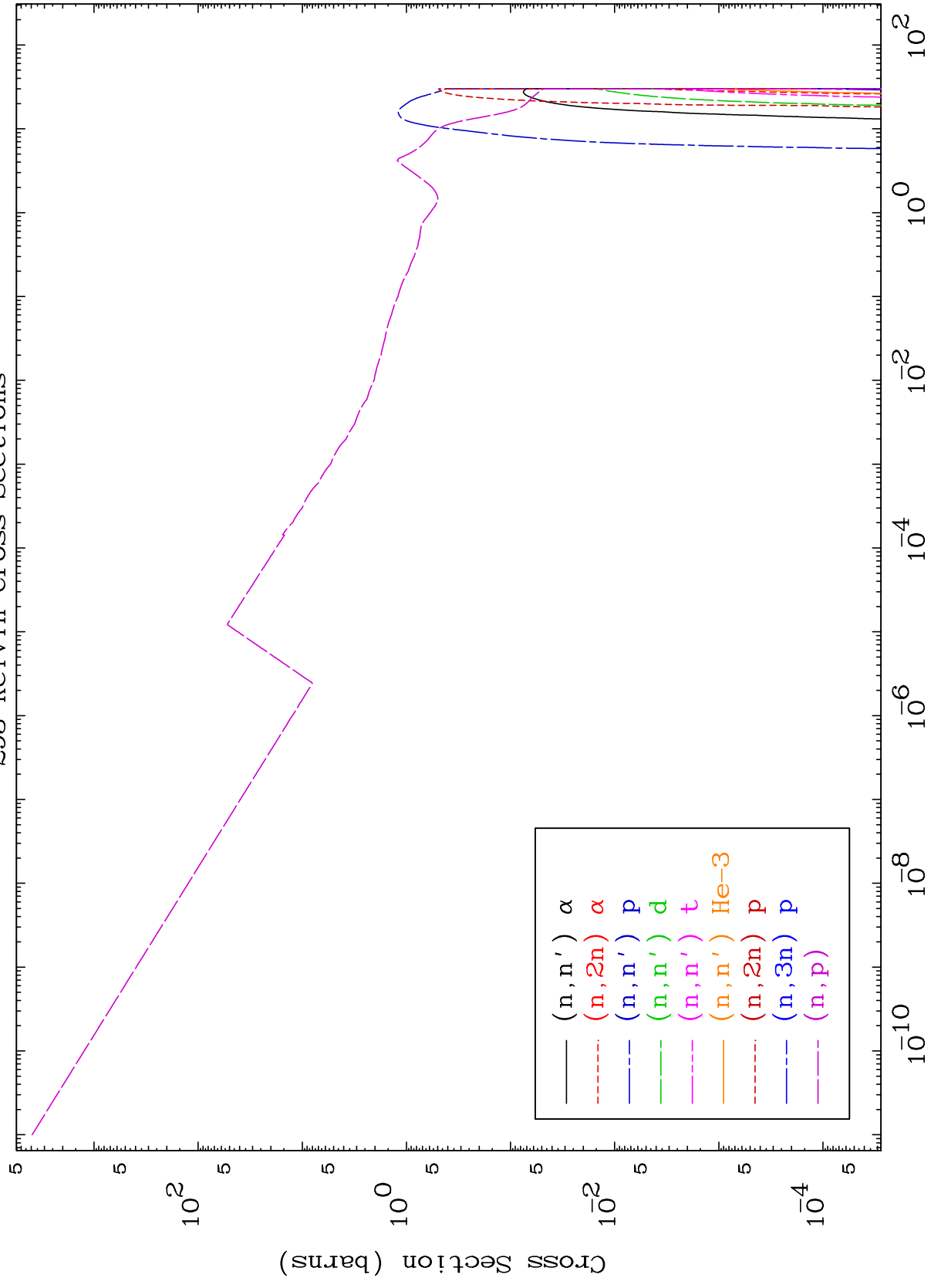
41-Nb-89



MAT 4113

Charged Particle  
293 Kelvin Cross Sections

41-Nb-89



3

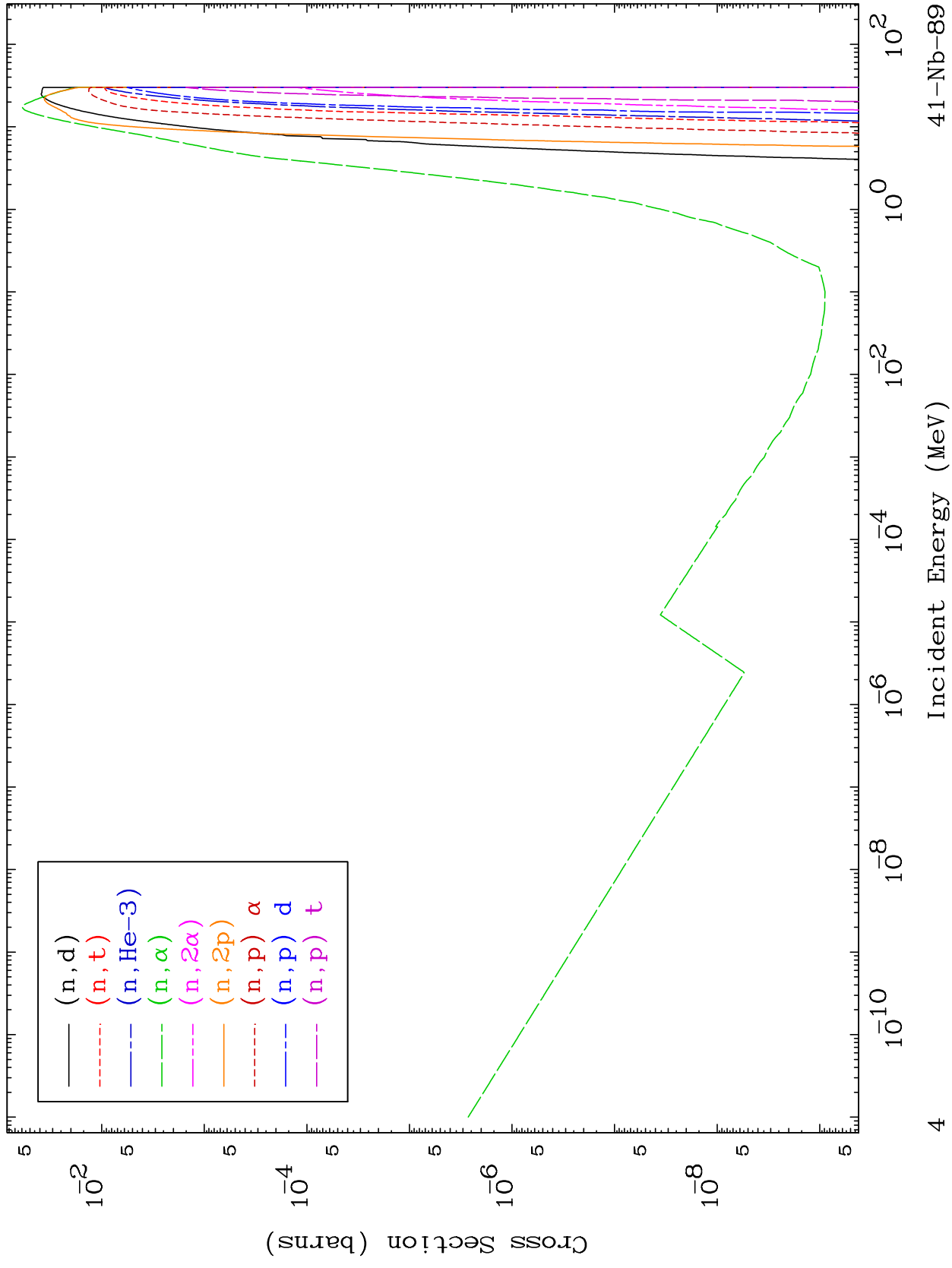
Incident Energy (MeV)

41-Nb-89

MAT 4113

Charged Particle  
293 Kelvin Cross Sections

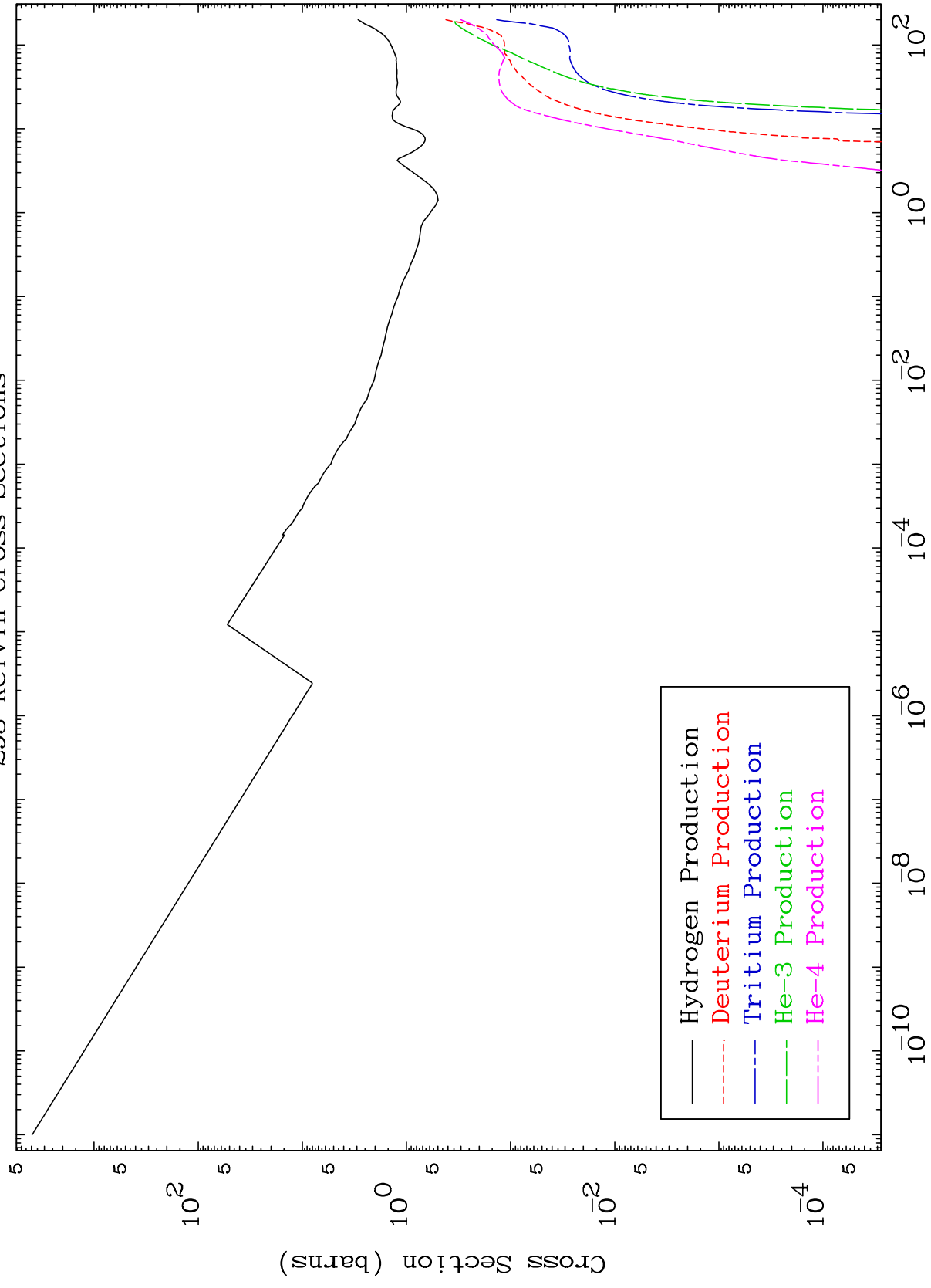
41-Nb-89



MAT 4113

Particle Production  
293 Kelvin Cross Sections

41-Nb-89



5

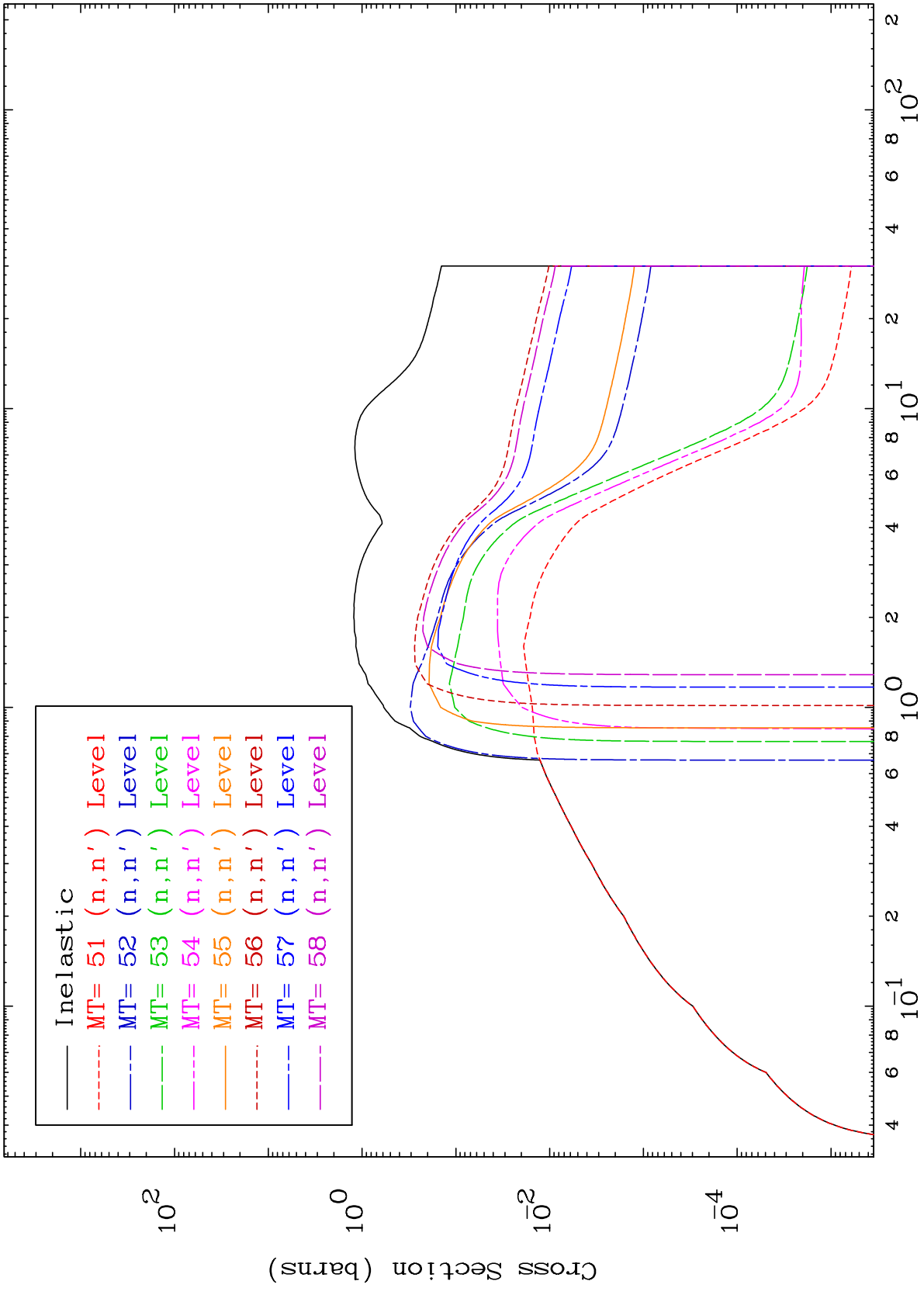
Incident Energy (MeV)

41-Nb-89

MAT 4113

293 Kelvin Cross Sections

41-Nb-89

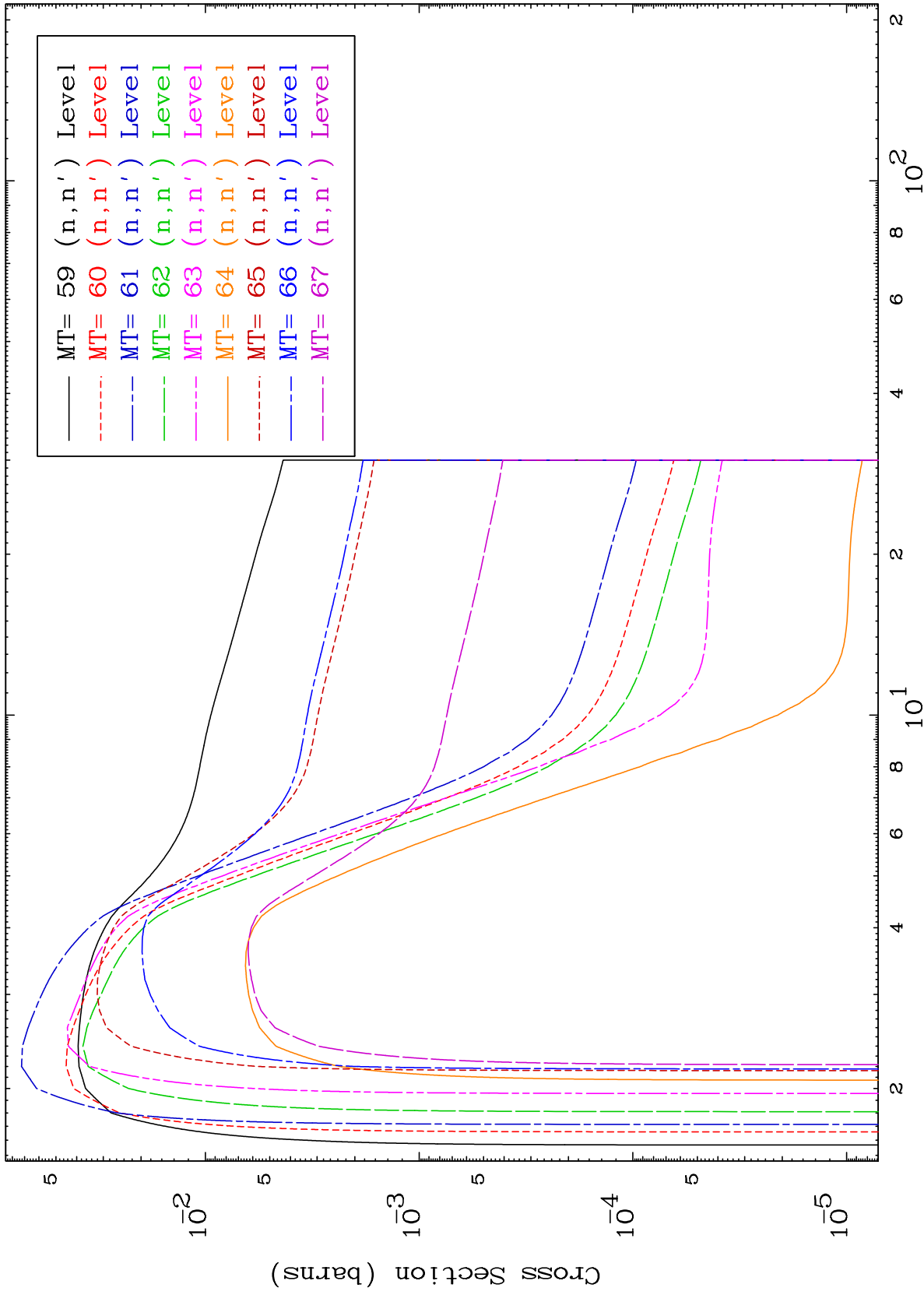


MAT 4113

(n,n') Level

41-Nb-89

293 Kelvin Cross Sections

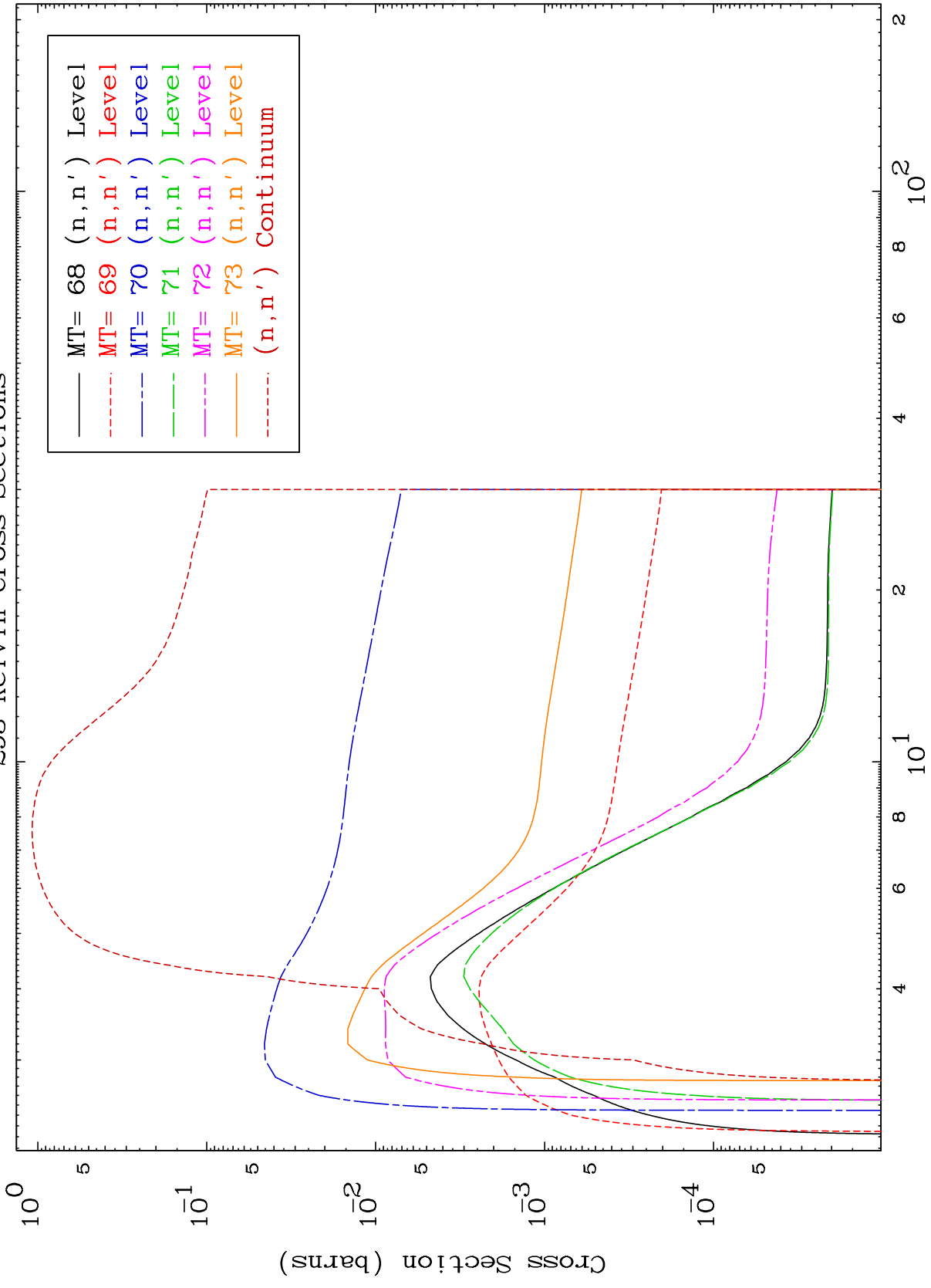


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Incident Energy (MeV)

41-Nb-89

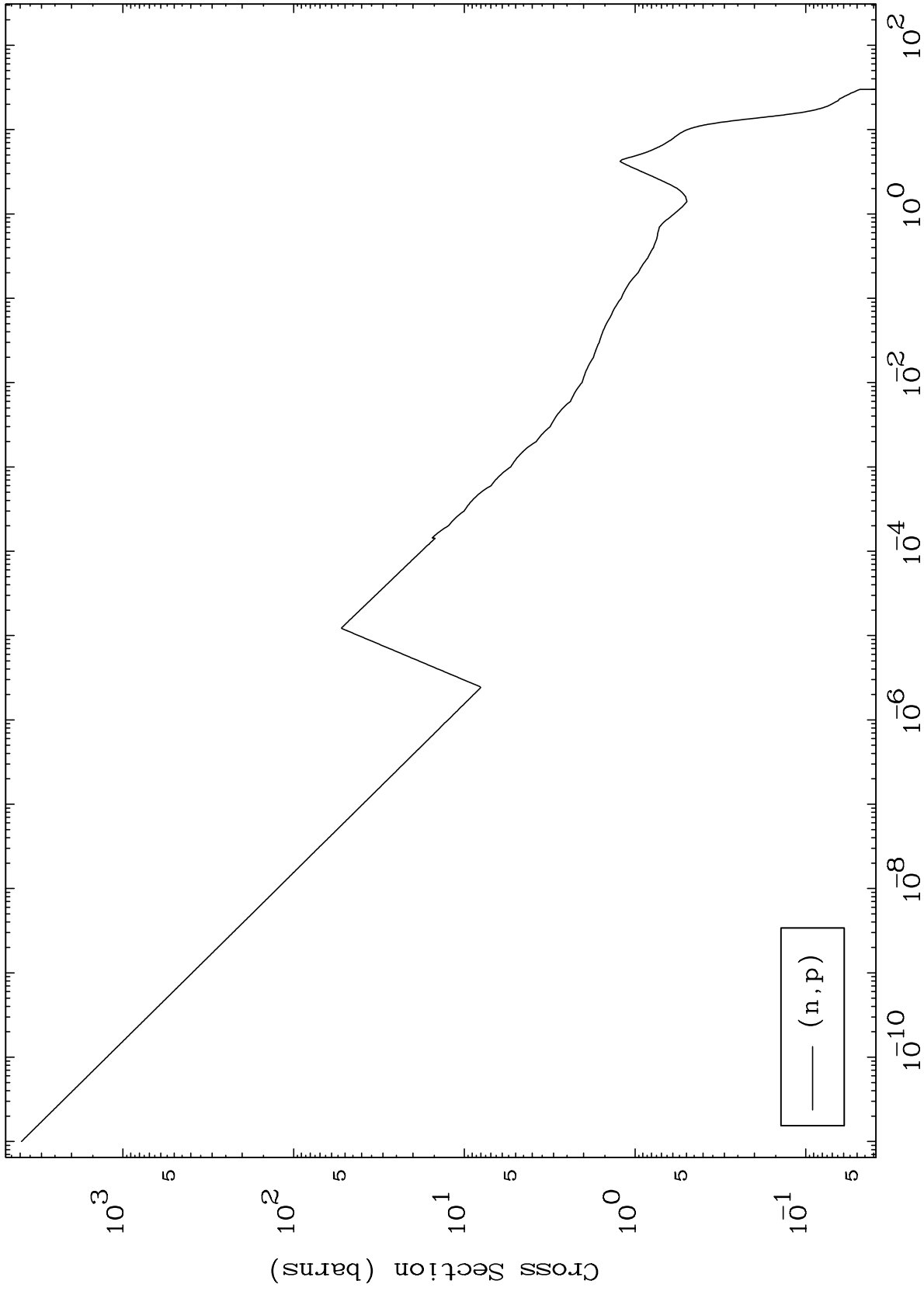




MAT 4113

(n,p) Levels  
293 Kelvin Cross Sections

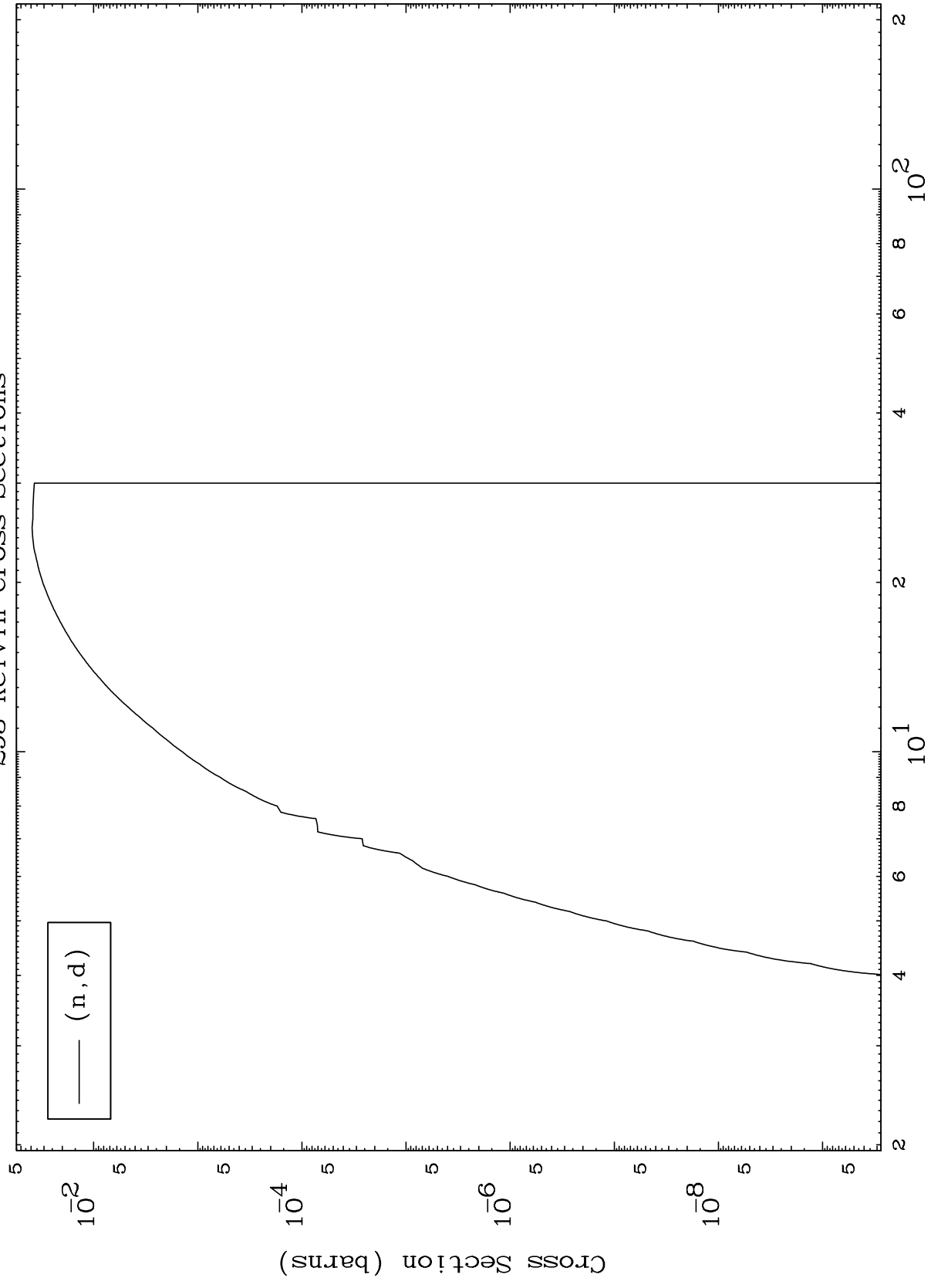
41-Nb-89



MAT 4113

(n,d) Levels  
293 Kelvin Cross Sections

41-Nb-89



(n,d)

10

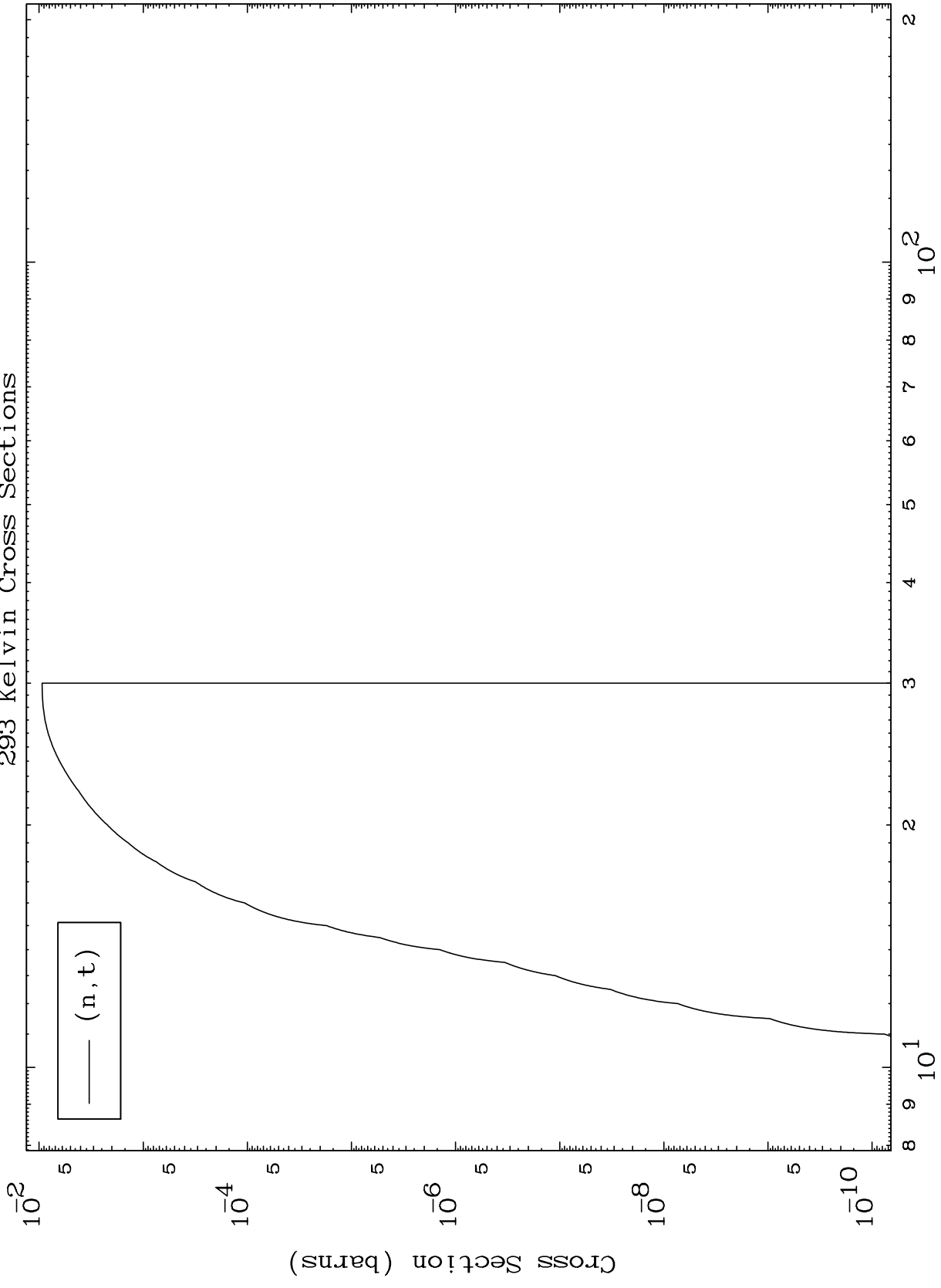
Incident Energy (MeV)

41-Nb-89

MAT 4113

(n,t) Levels  
293 Kelvin Cross Sections

41-Nb-89



11

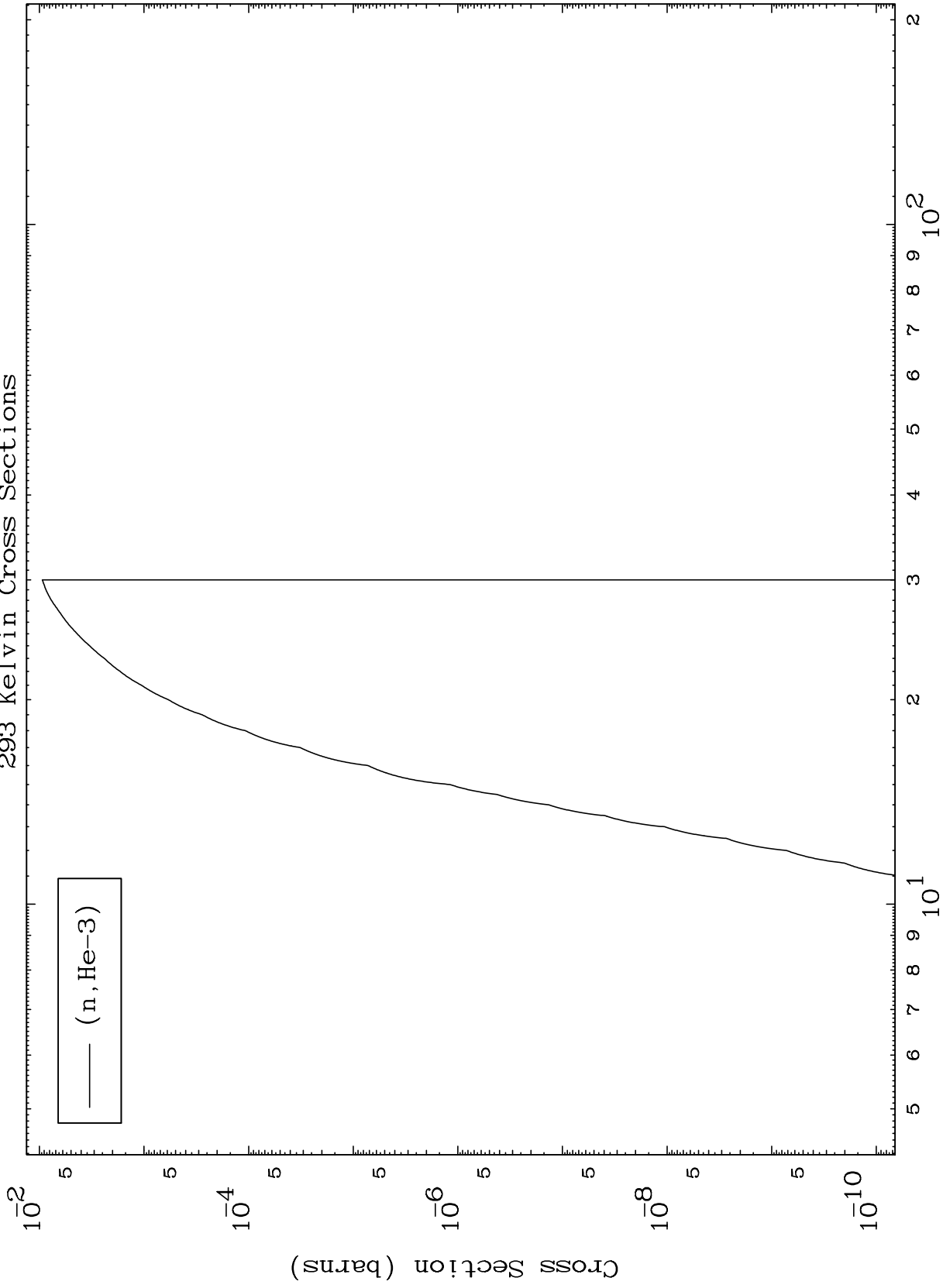
Incident Energy (MeV)

41-Nb-89

MAT 4113

41-Nb-89

(n,He3) Levels  
293 Kelvin Cross Sections



12

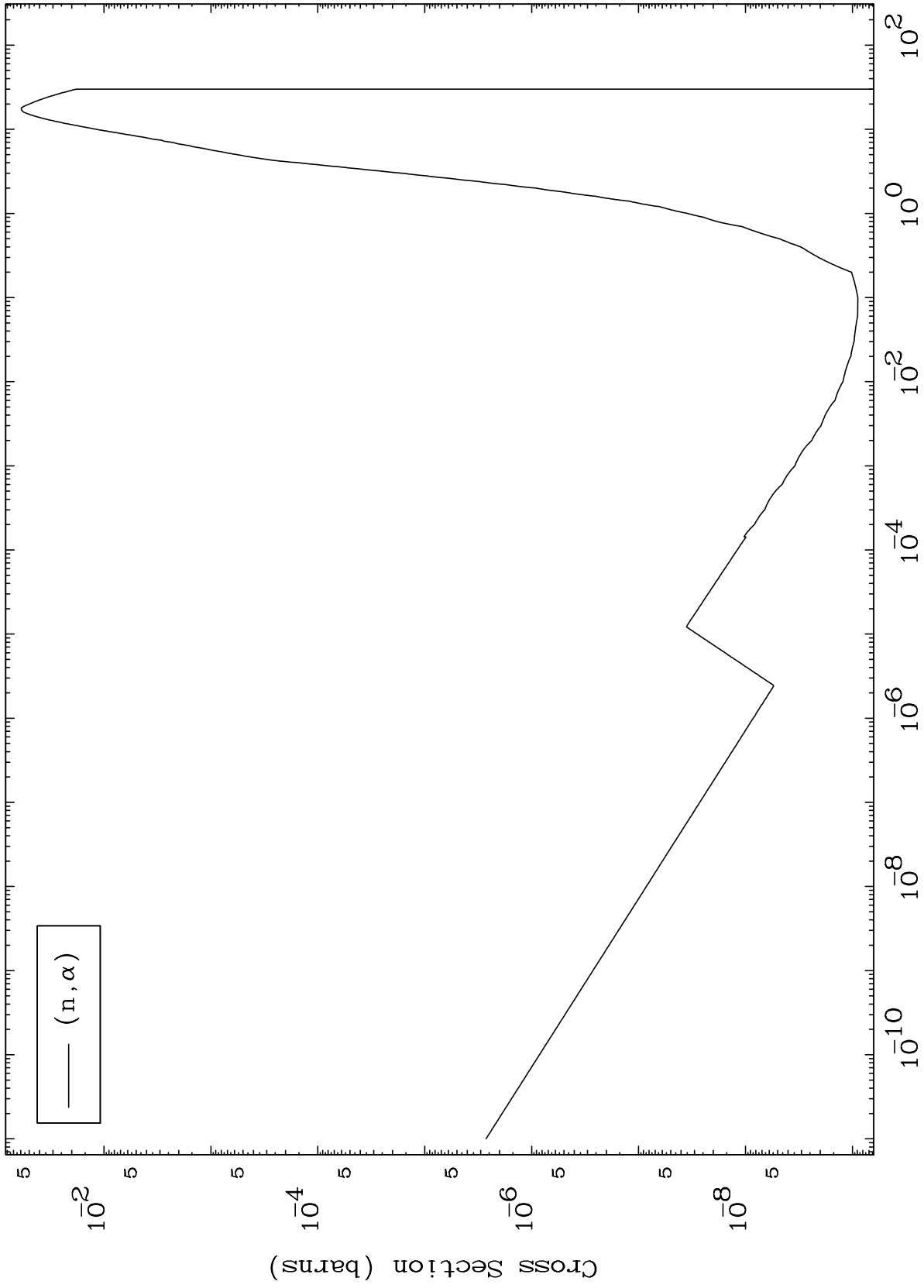
Incident Energy (MeV)

41-Nb-89

MAT 4113

(n,α) Levels  
293 Kelvin Cross Sections

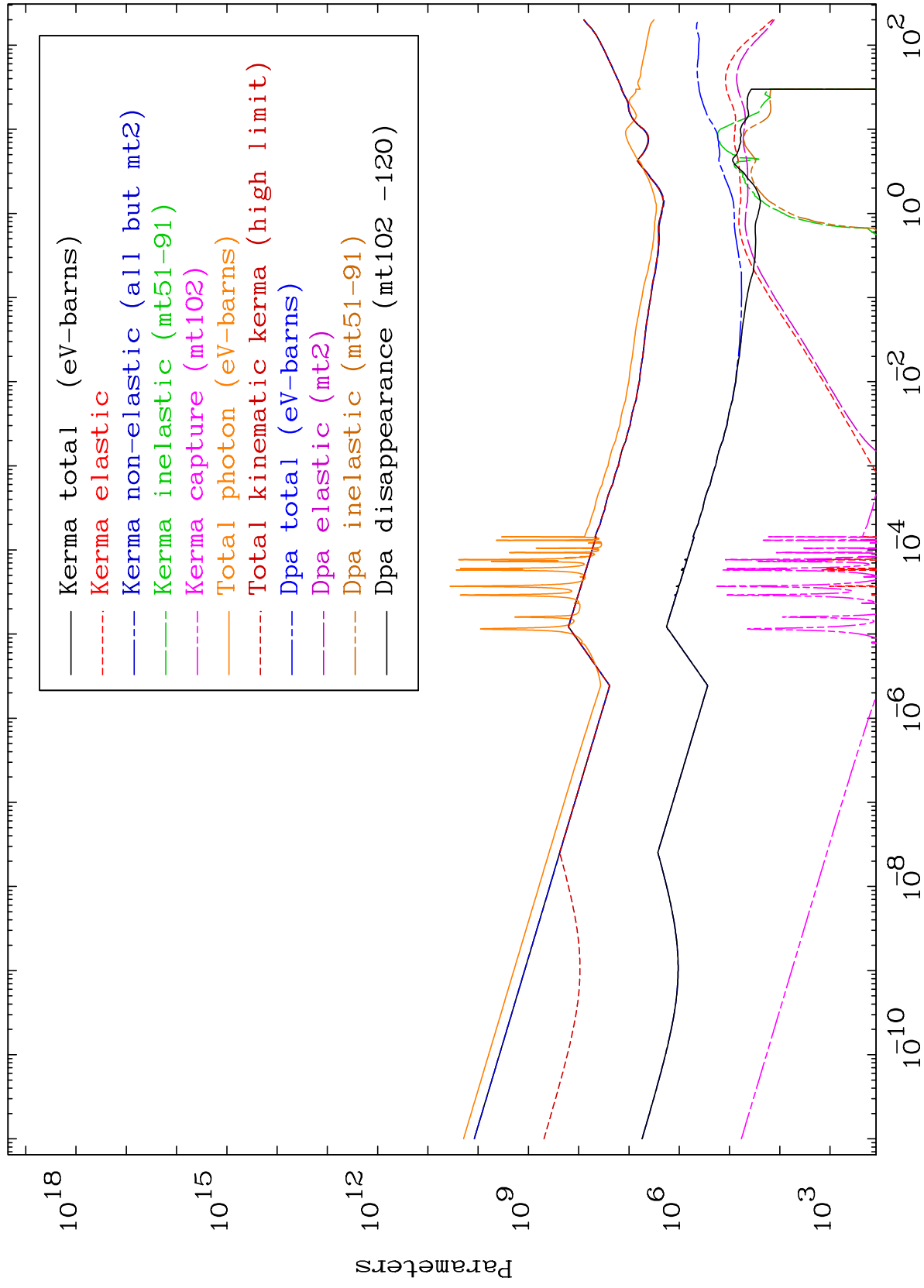
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13

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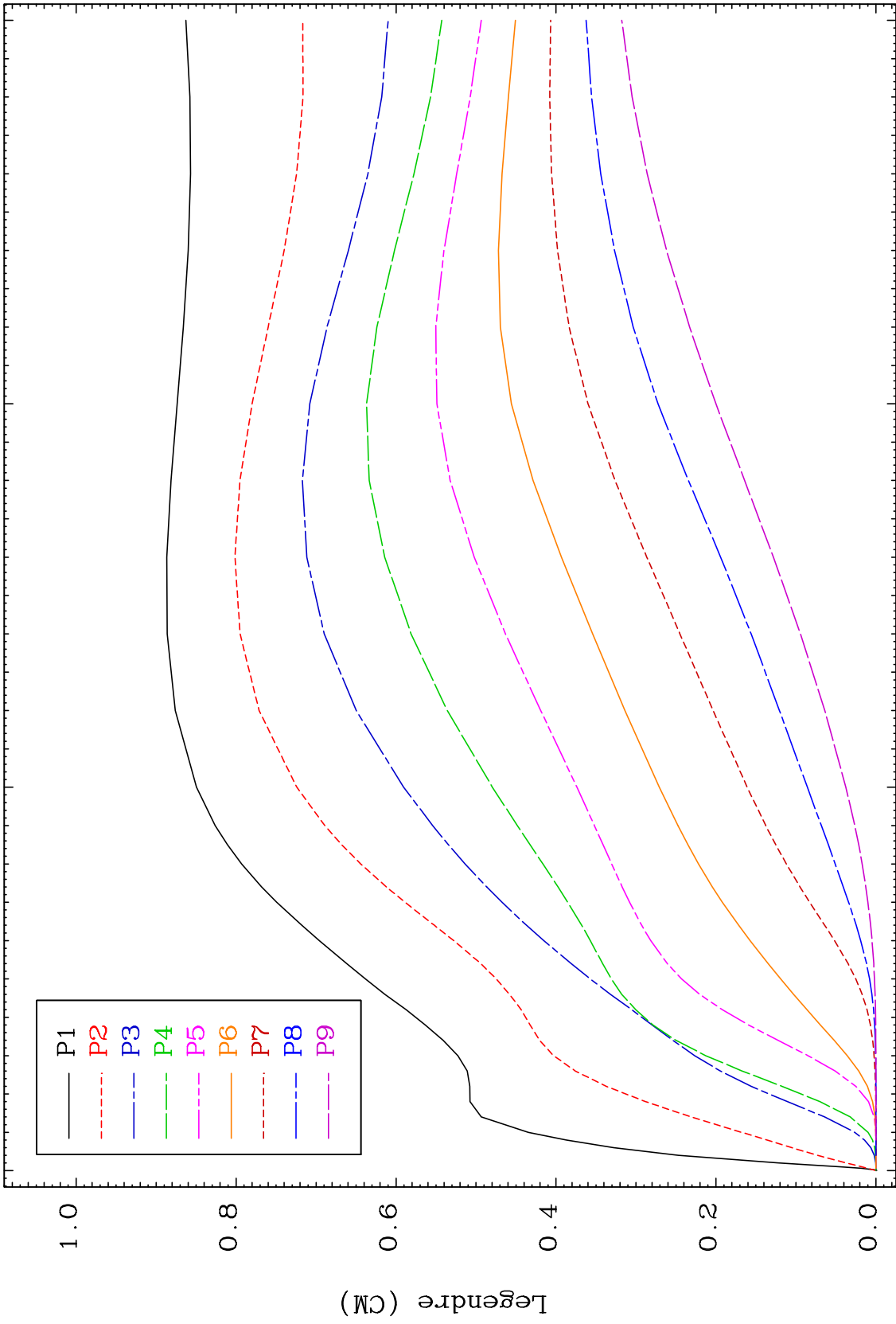
41-Nb-89



MAT 4113

Elastic Legendre Coefficients

41-Nb-89



15

Incident Energy (MeV)

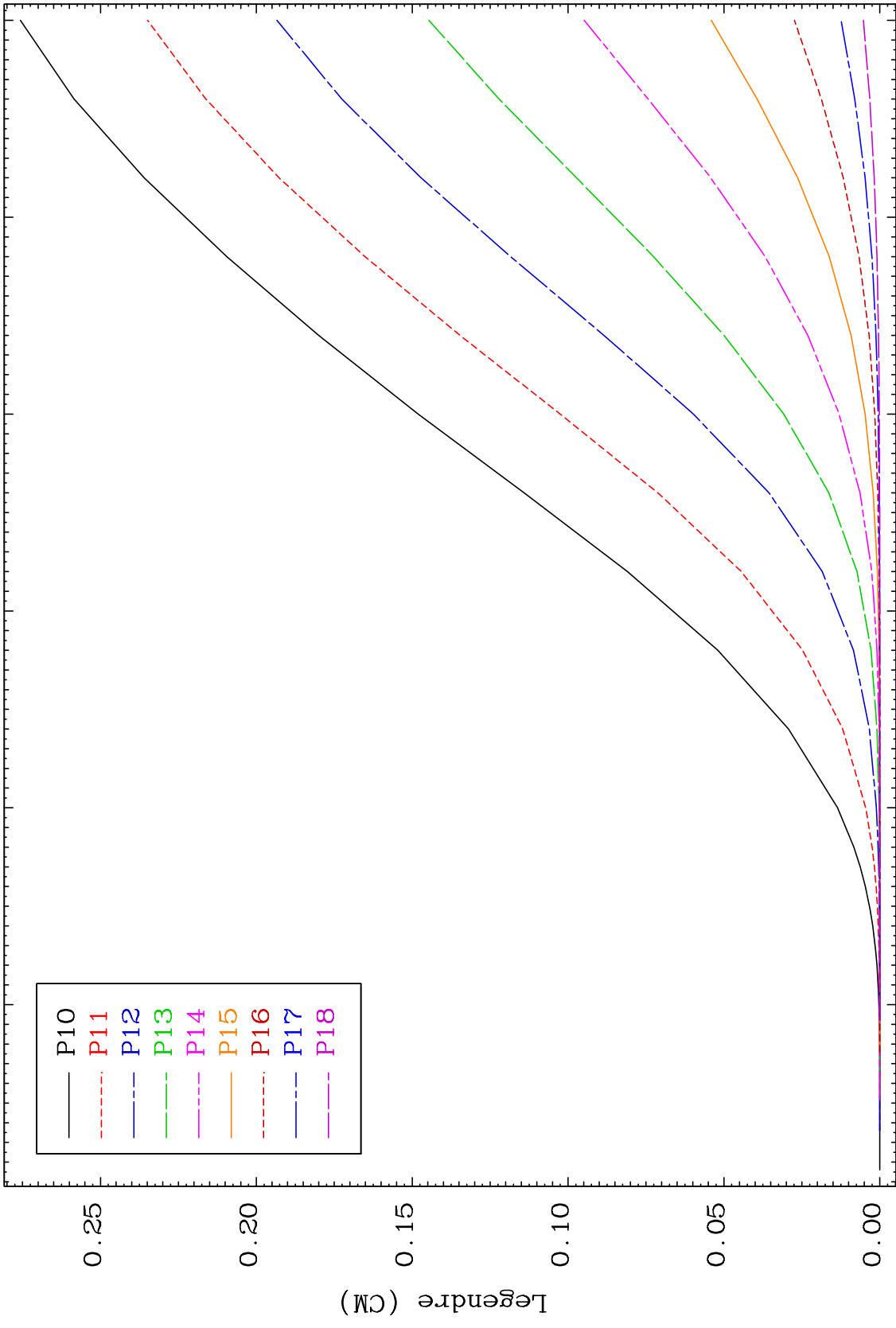
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MAT 4113

Elastic Legendre Coefficients

41-Nb-89



16

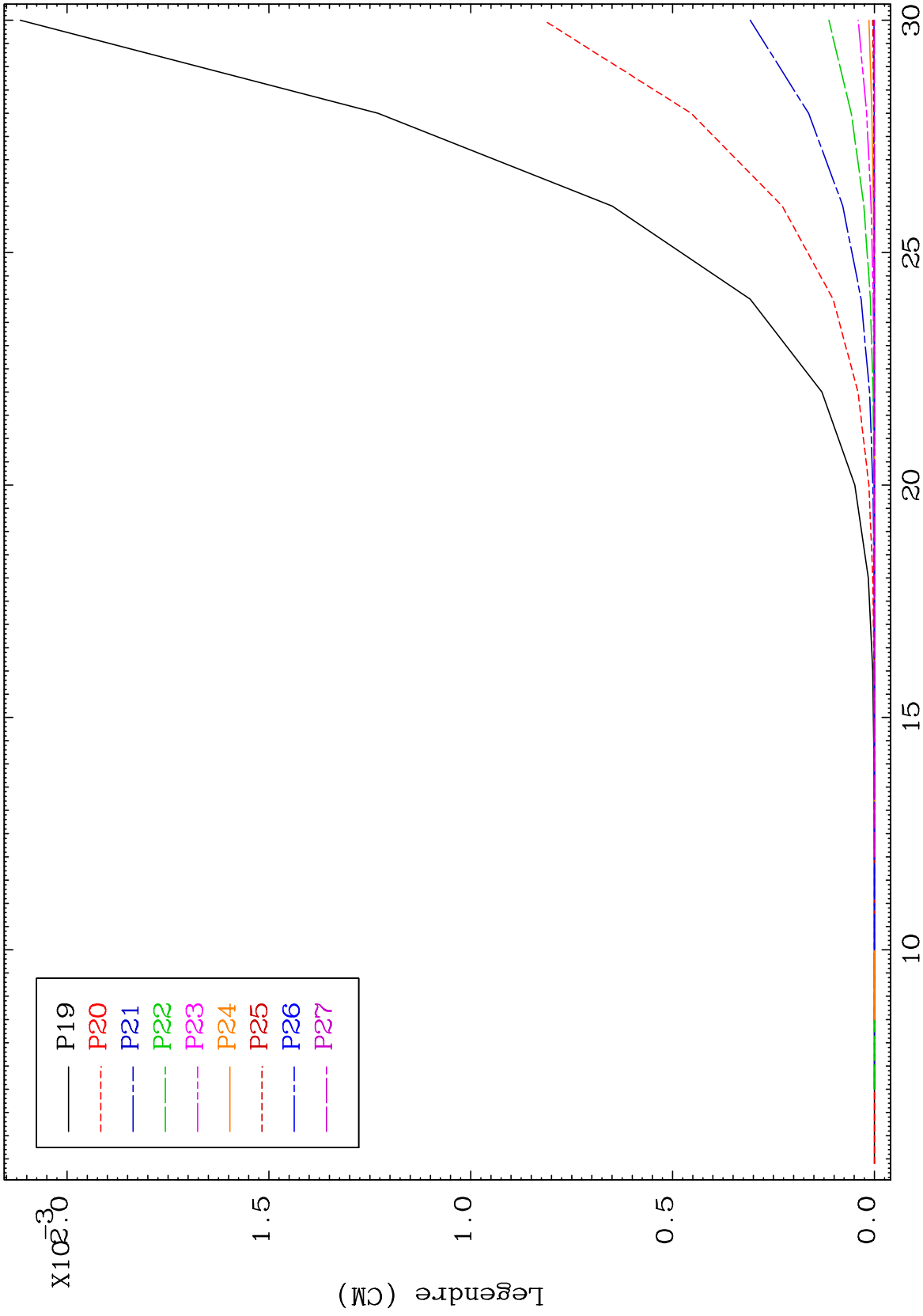
Incident Energy (MeV)

41-Nb-89

MAT 4113

### Elastic Legendre Coefficients

41-Nb-89



17

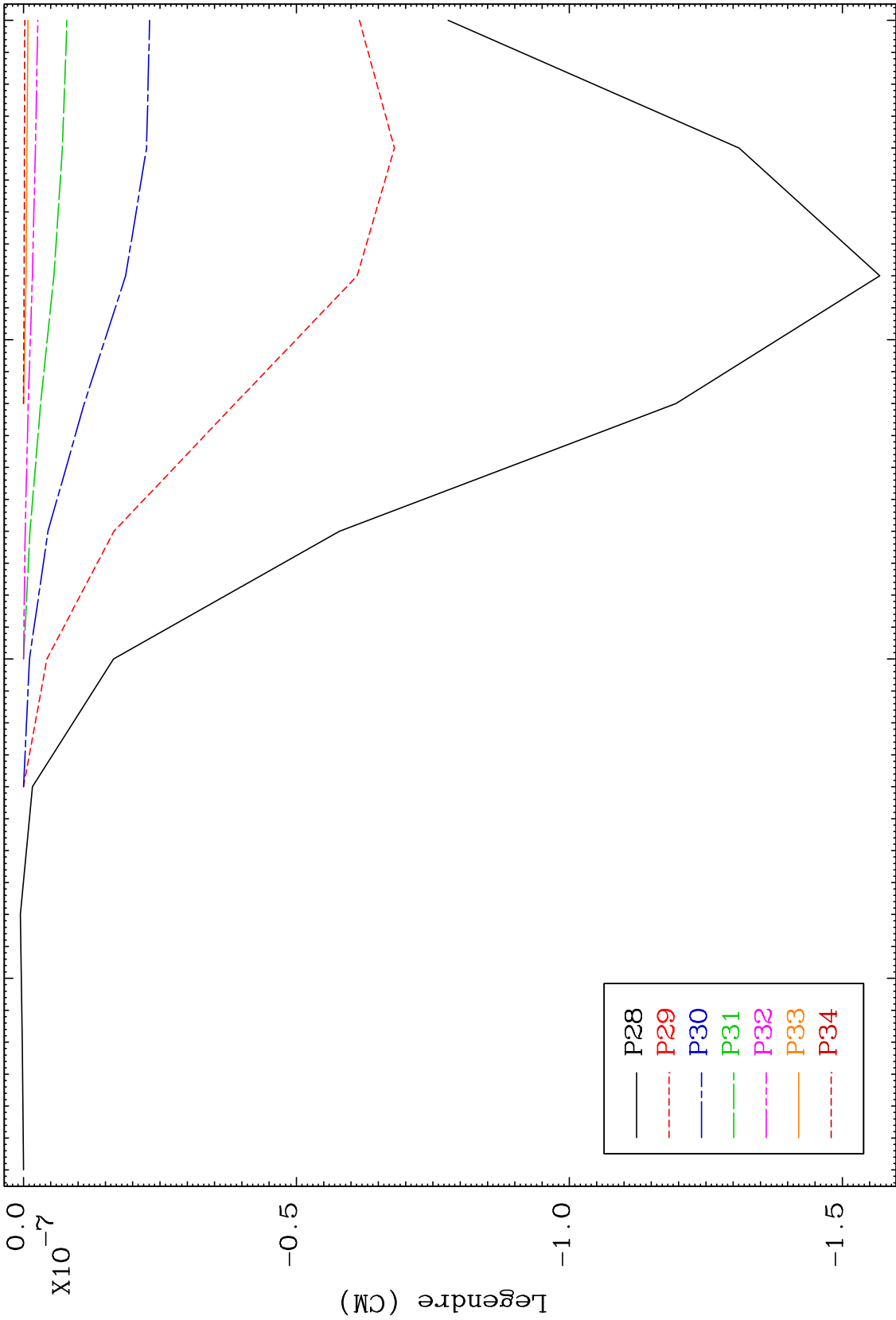
Incident Energy (MeV)

41-Nb-89

MAT 4113

Elastic Legendre Coefficients

41-Nb-89



18

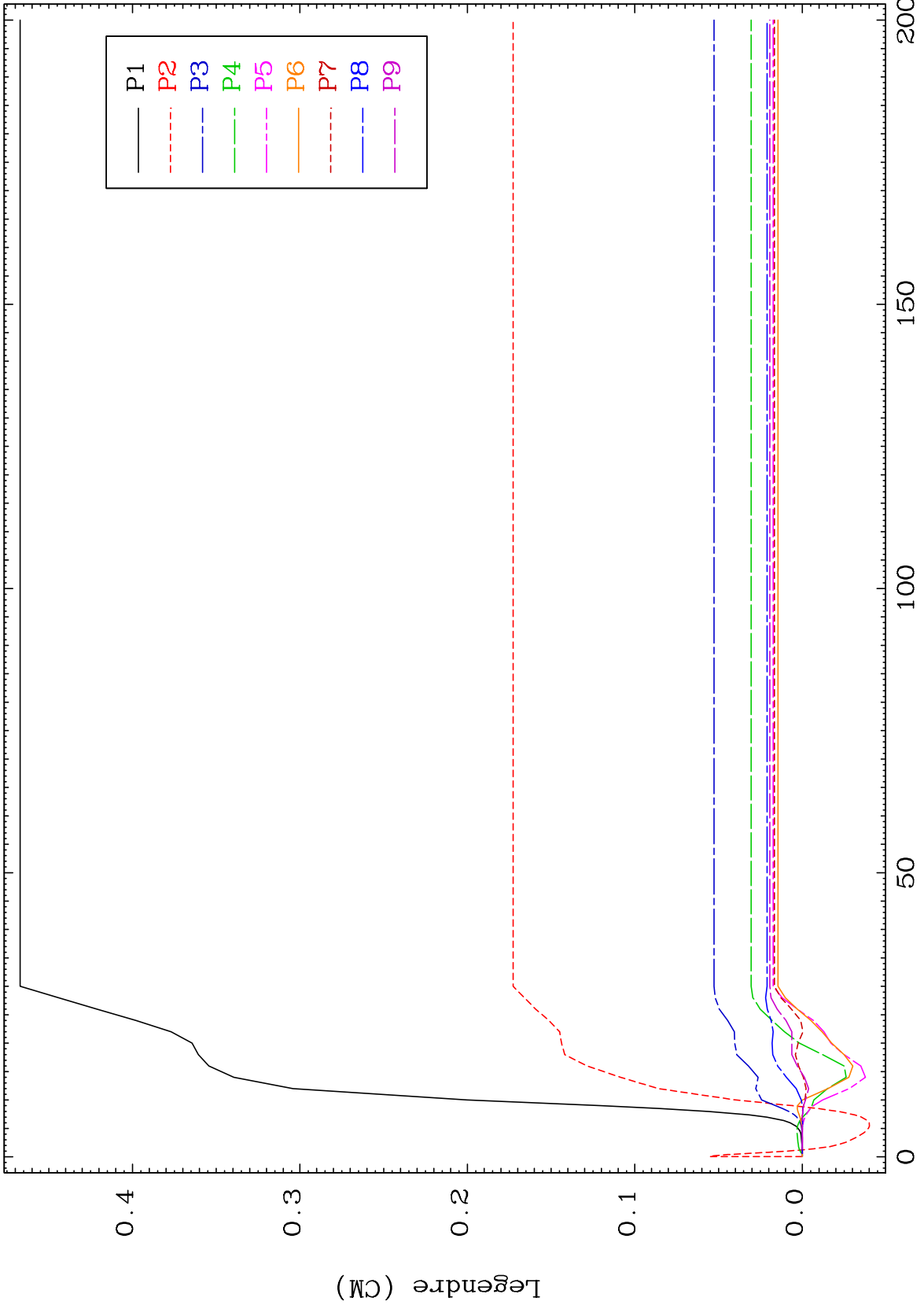
Incident Energy (MeV)

41-Nb-89

MAT 4113

MT= 51 (n,n') Level  
Legendre Coefficients

41-Nb-89



19

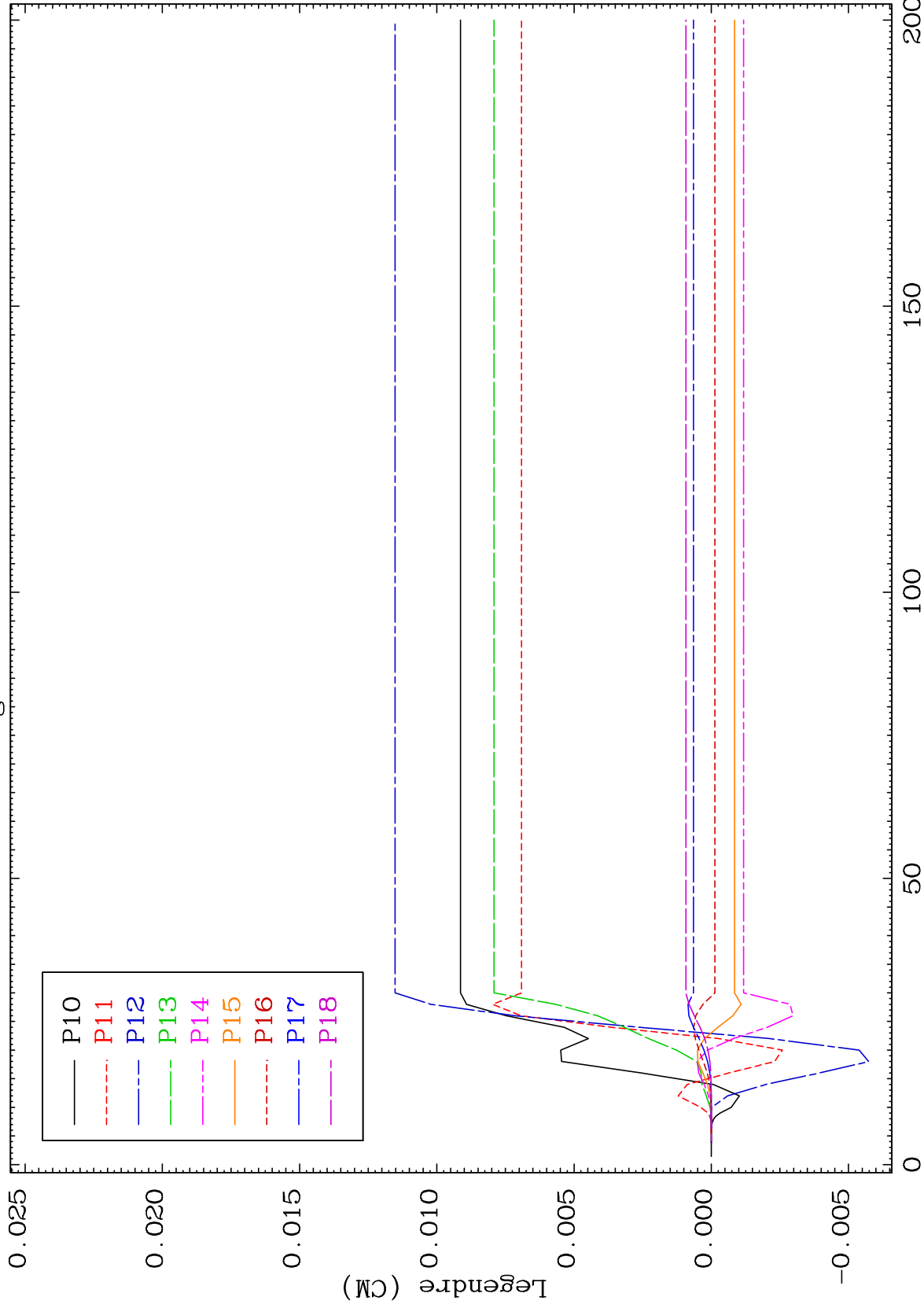
Incident Energy (MeV)

41-Nb-89

MAT 4113

MT= 51 (n,n') Level  
Legendre Coefficients

41-Nb-89



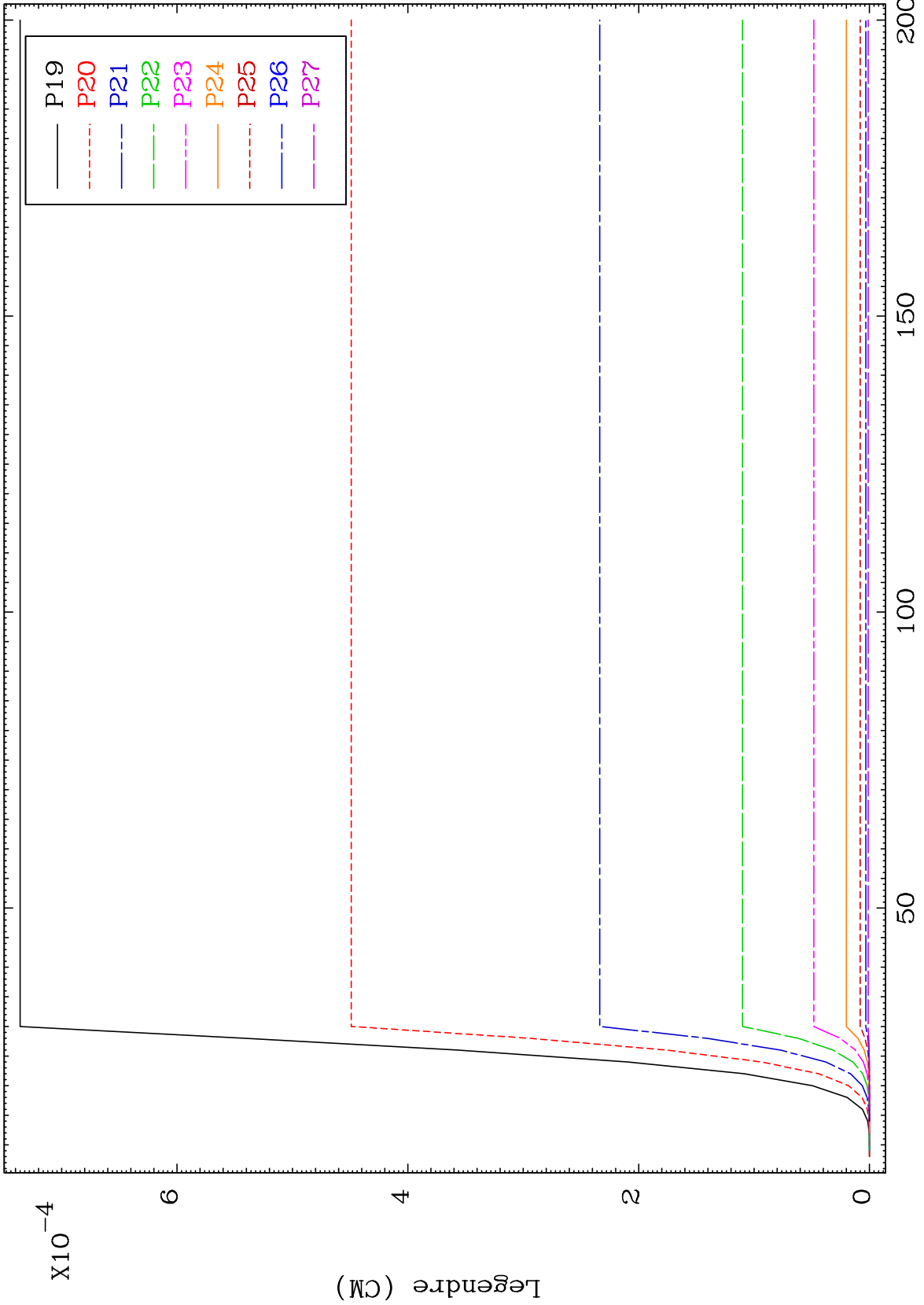
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MAT 4113

MT= 51 (n,n') Level  
Legendre Coefficients

41-Nb-89



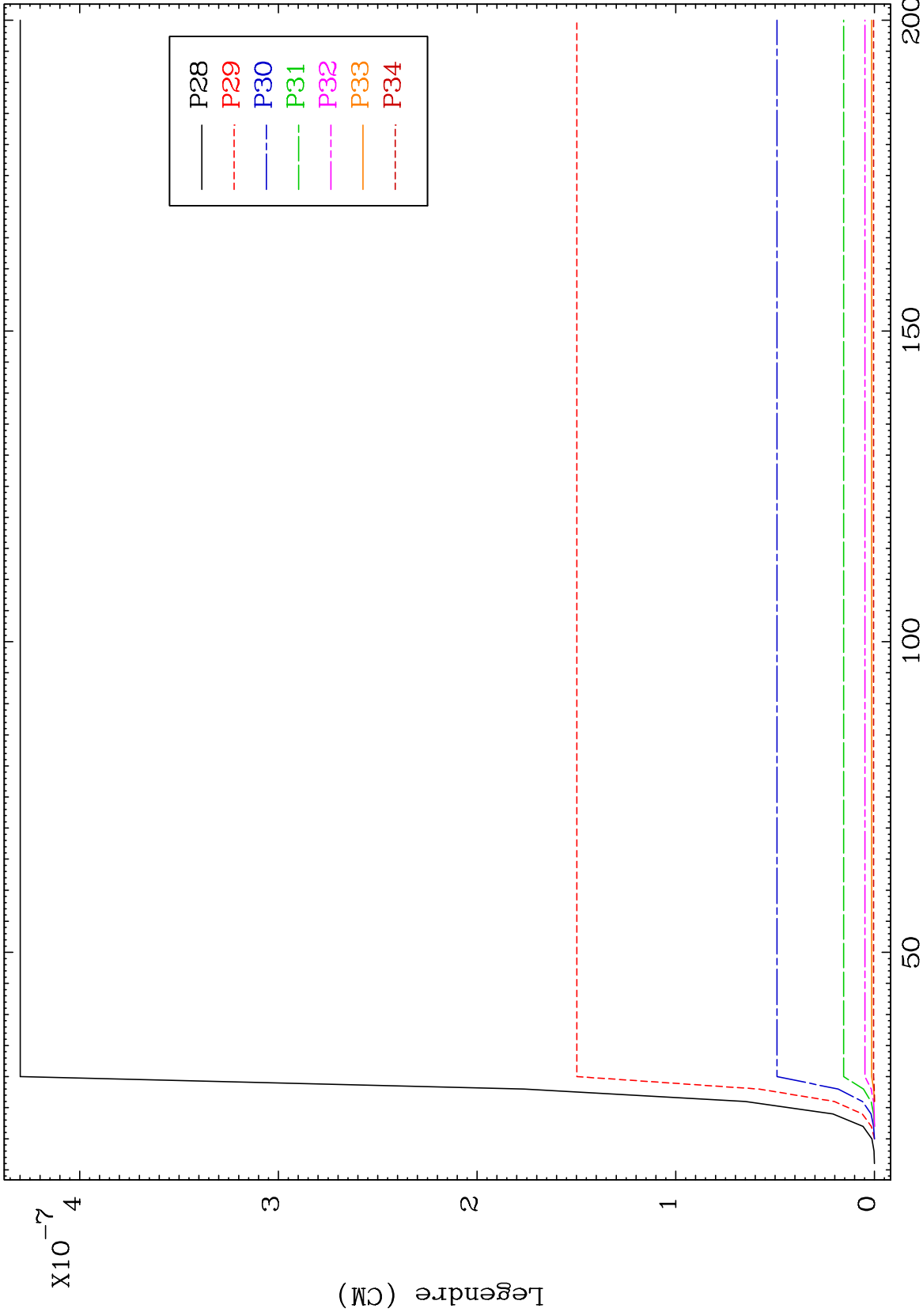
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MAT 4113

MT= 51 (n,n') Level  
Legendre Coefficients

41-Nb-89



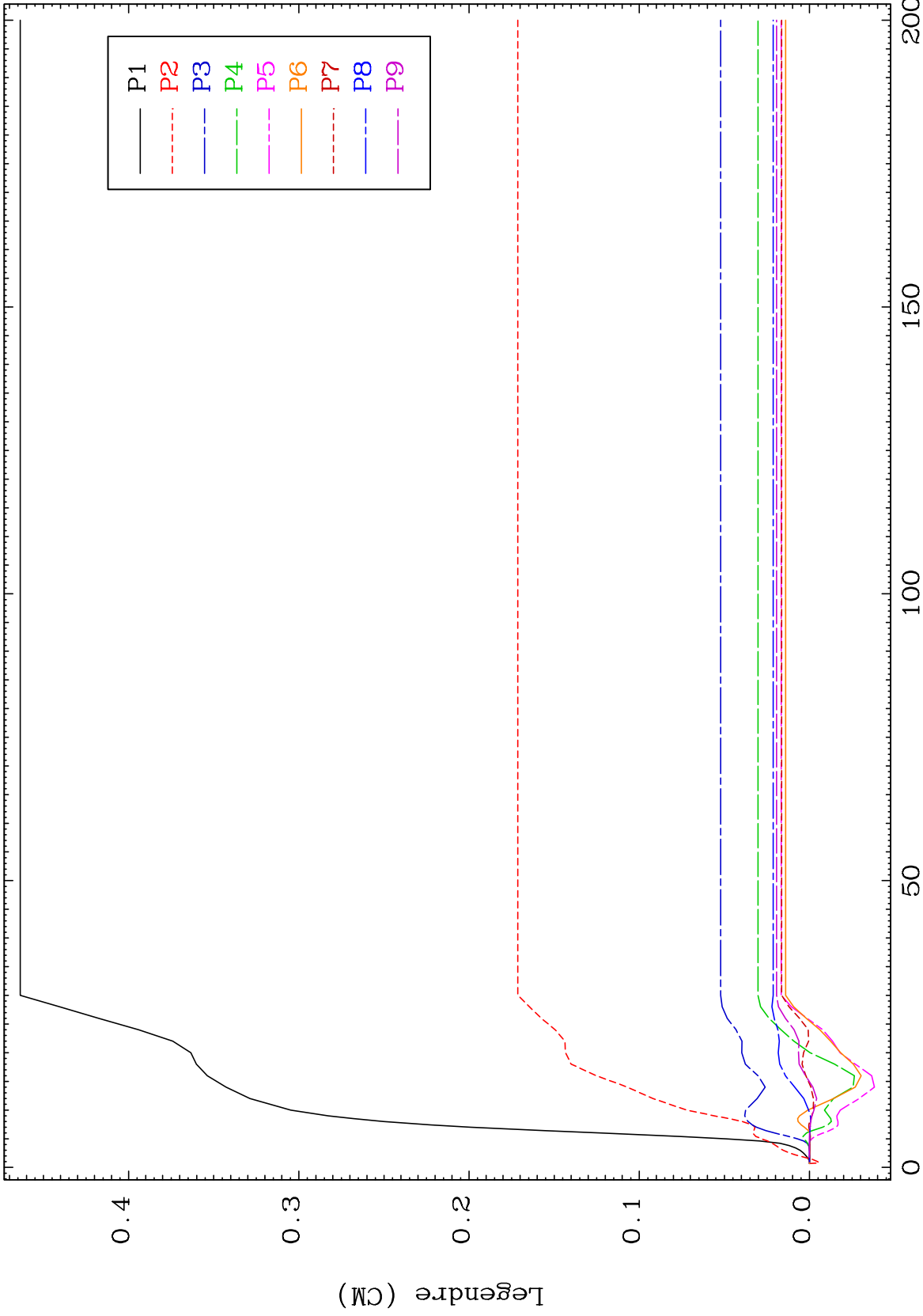
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41-Nb-89

MAT 4113

MT= 52 (n,n') Level  
Legendre Coefficients

41-Nb-89



23

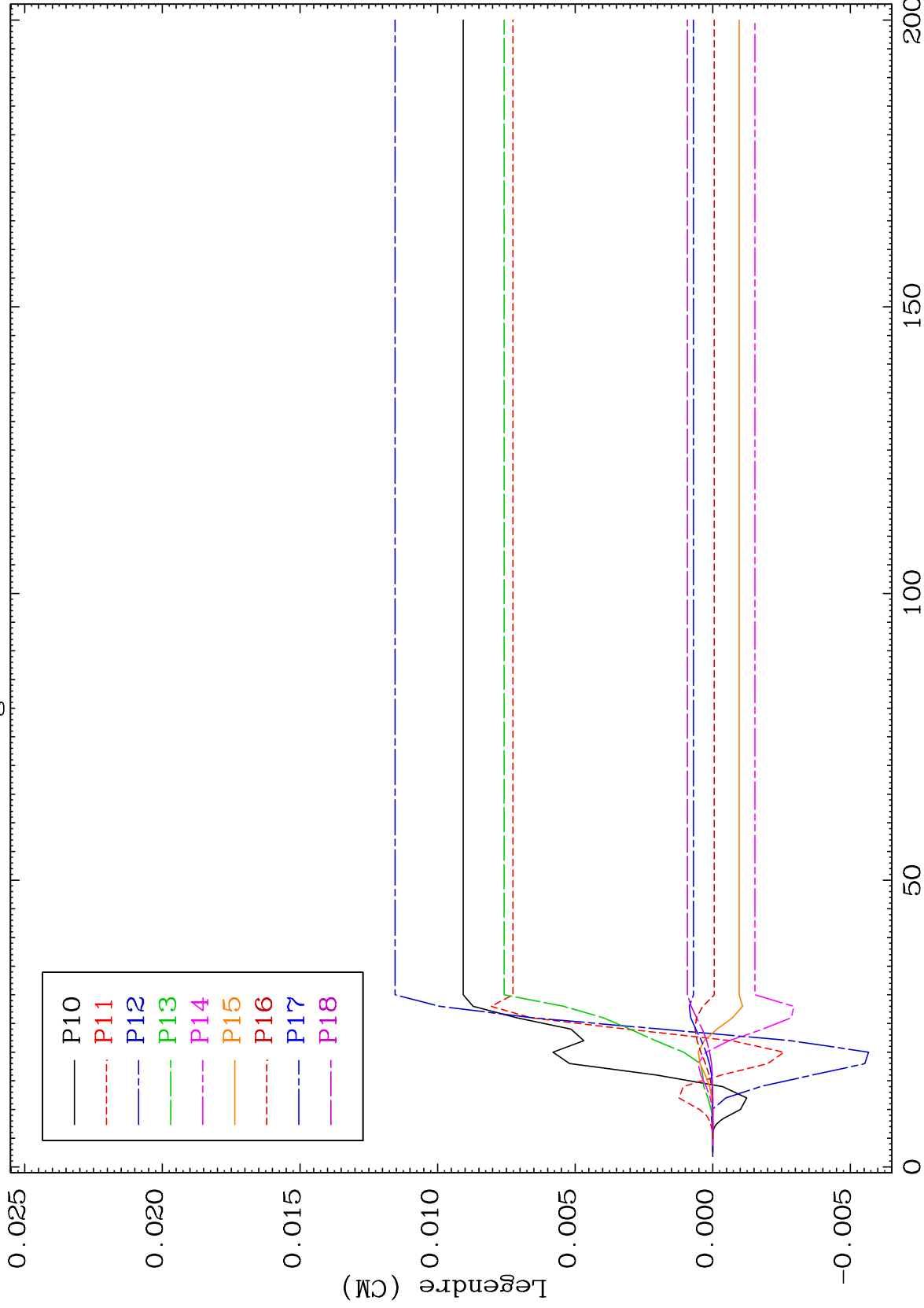
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MAT 4113

MT= 52 (n,n') Level  
Legendre Coefficients

41-Nb-89



24

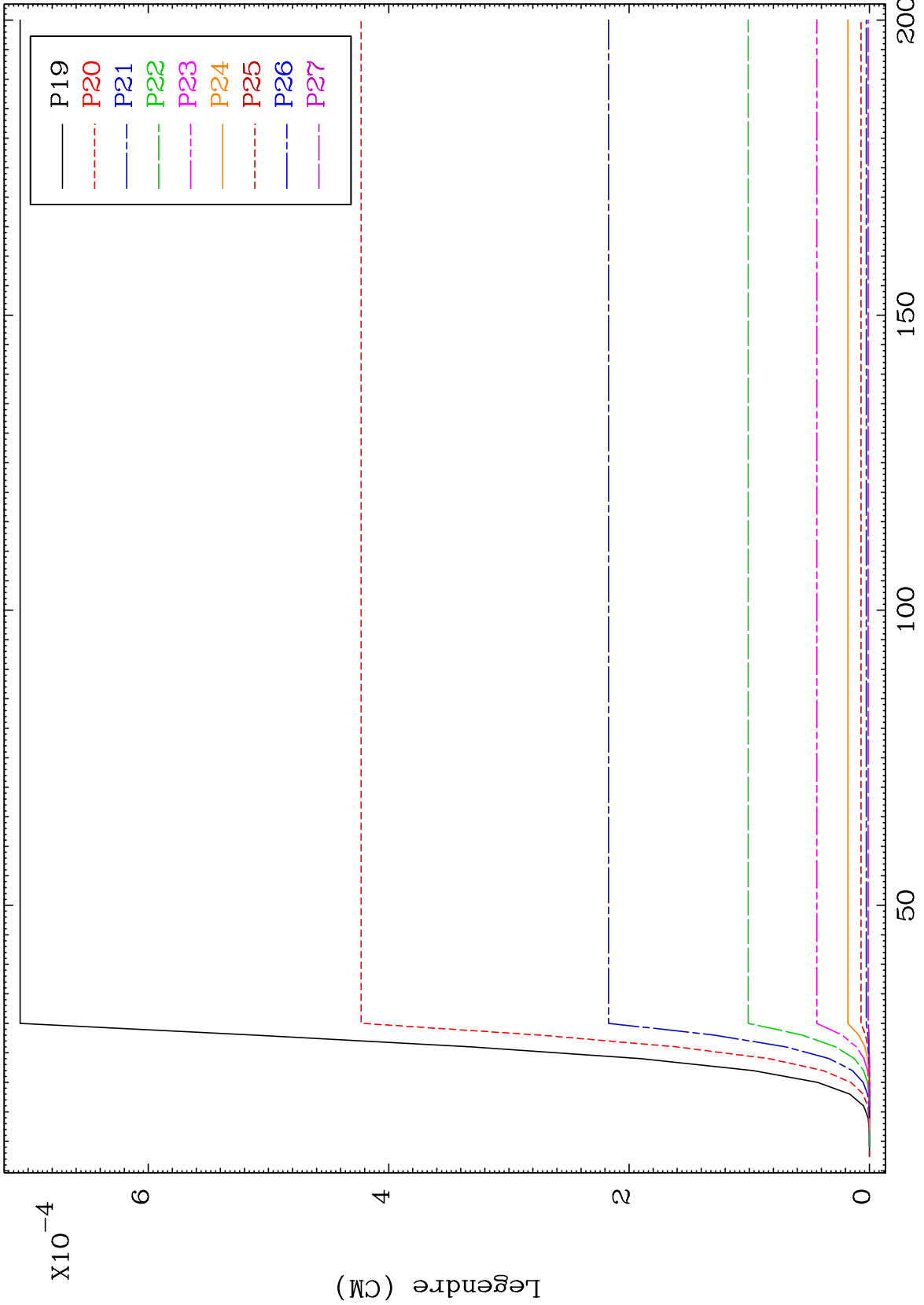
Incident Energy (MeV)

41-Nb-89

MAT 4113

MT= 52 (n,n') Level  
Legendre Coefficients

41-Nb-89



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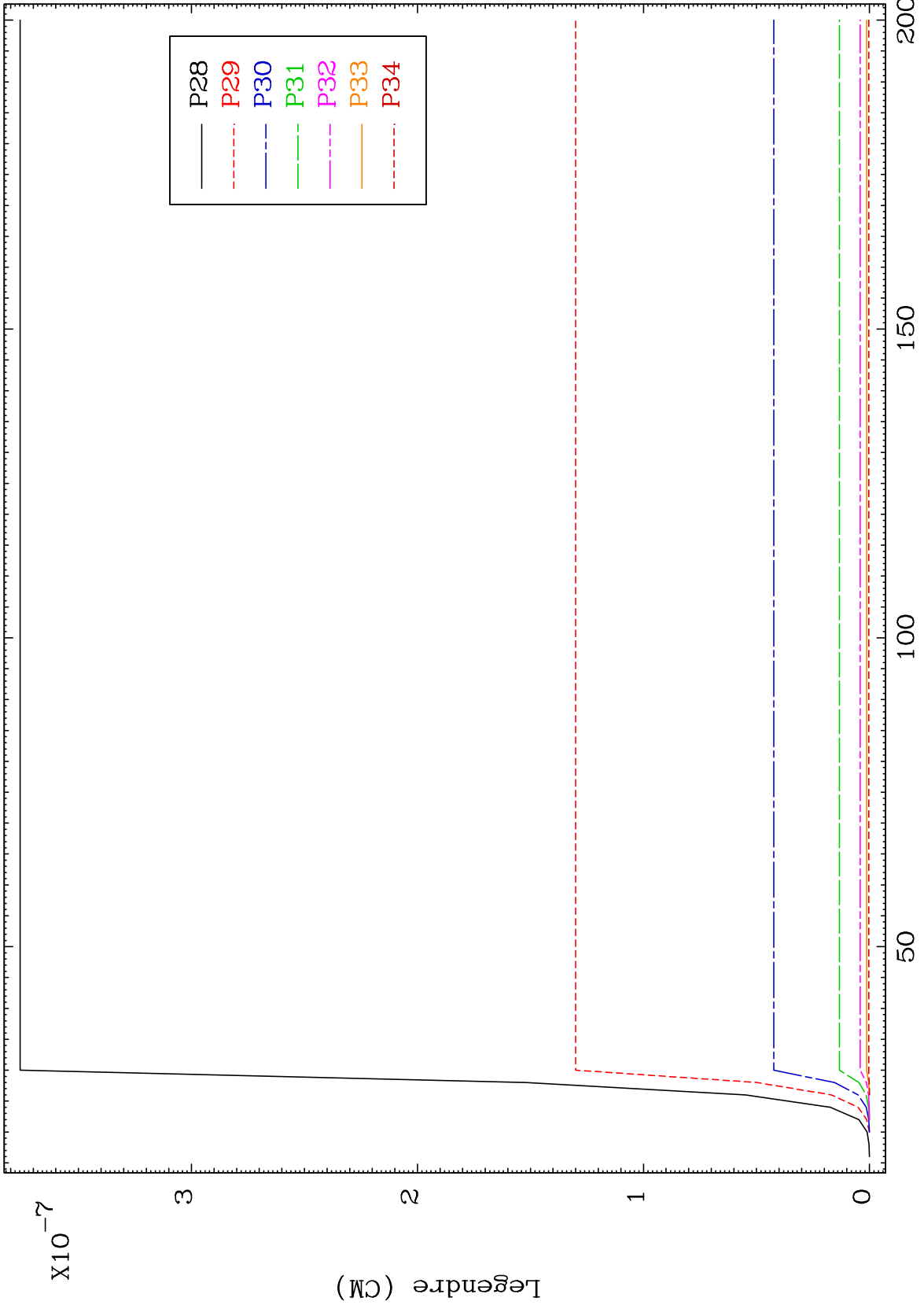
Incident Energy (MeV)

41-Nb-89

MAT 4113

MT= 52 (n,n') Level  
Legendre Coefficients

41-Nb-89



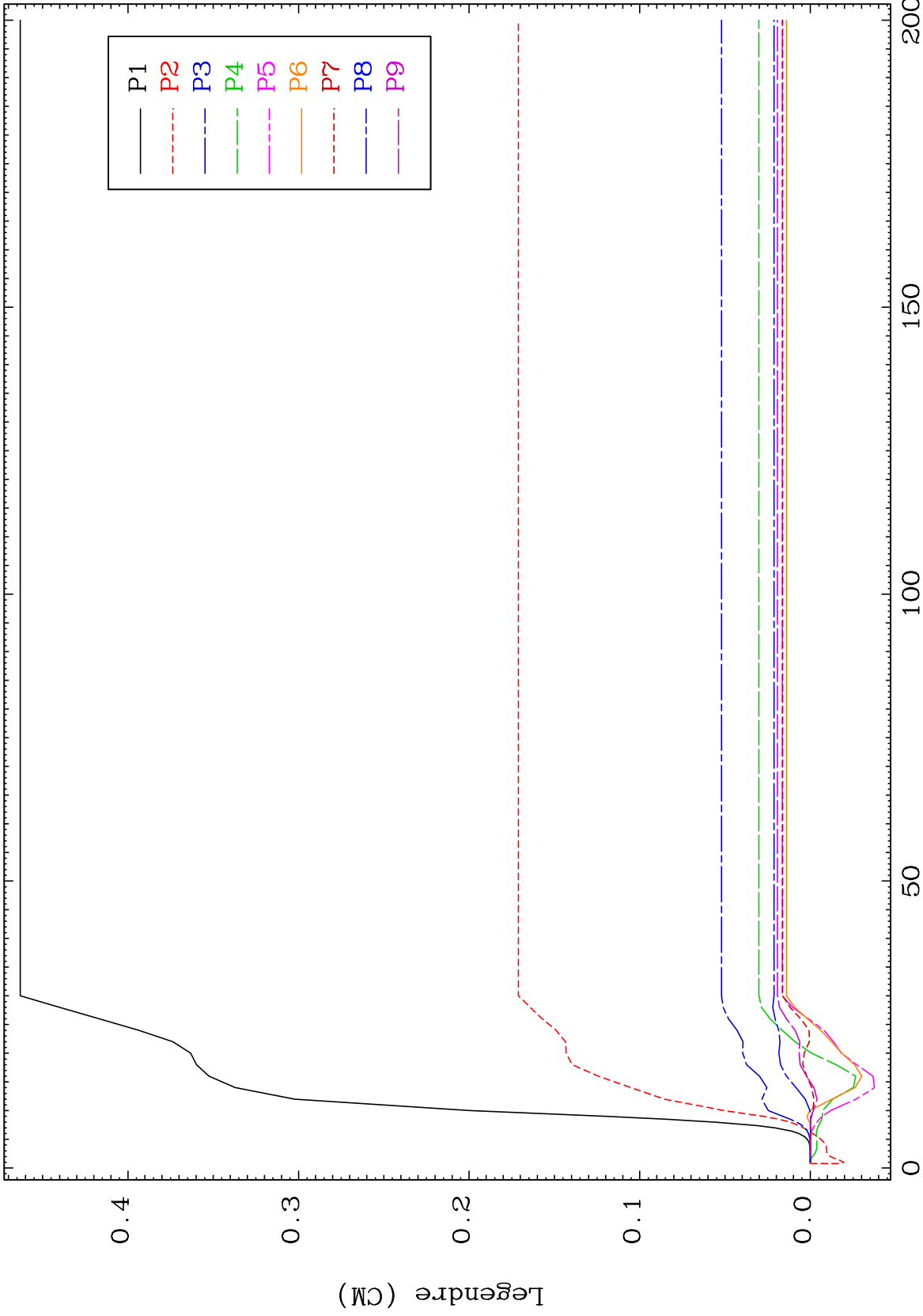
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MAT 4113

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

41-Nb-89



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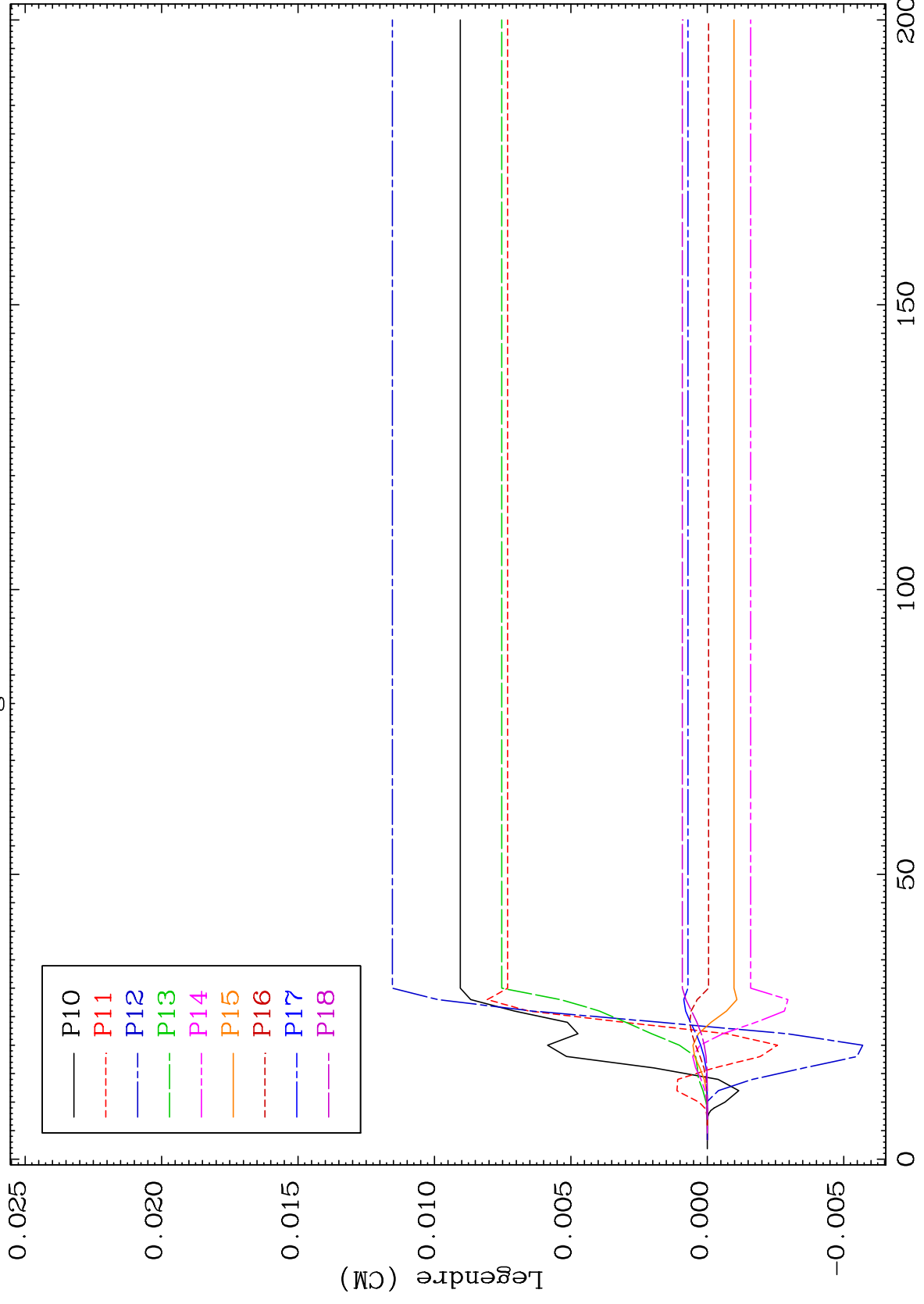
Incident Energy (MeV)

41-Nb-89

MAT 4113

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

41-Nb-89



28

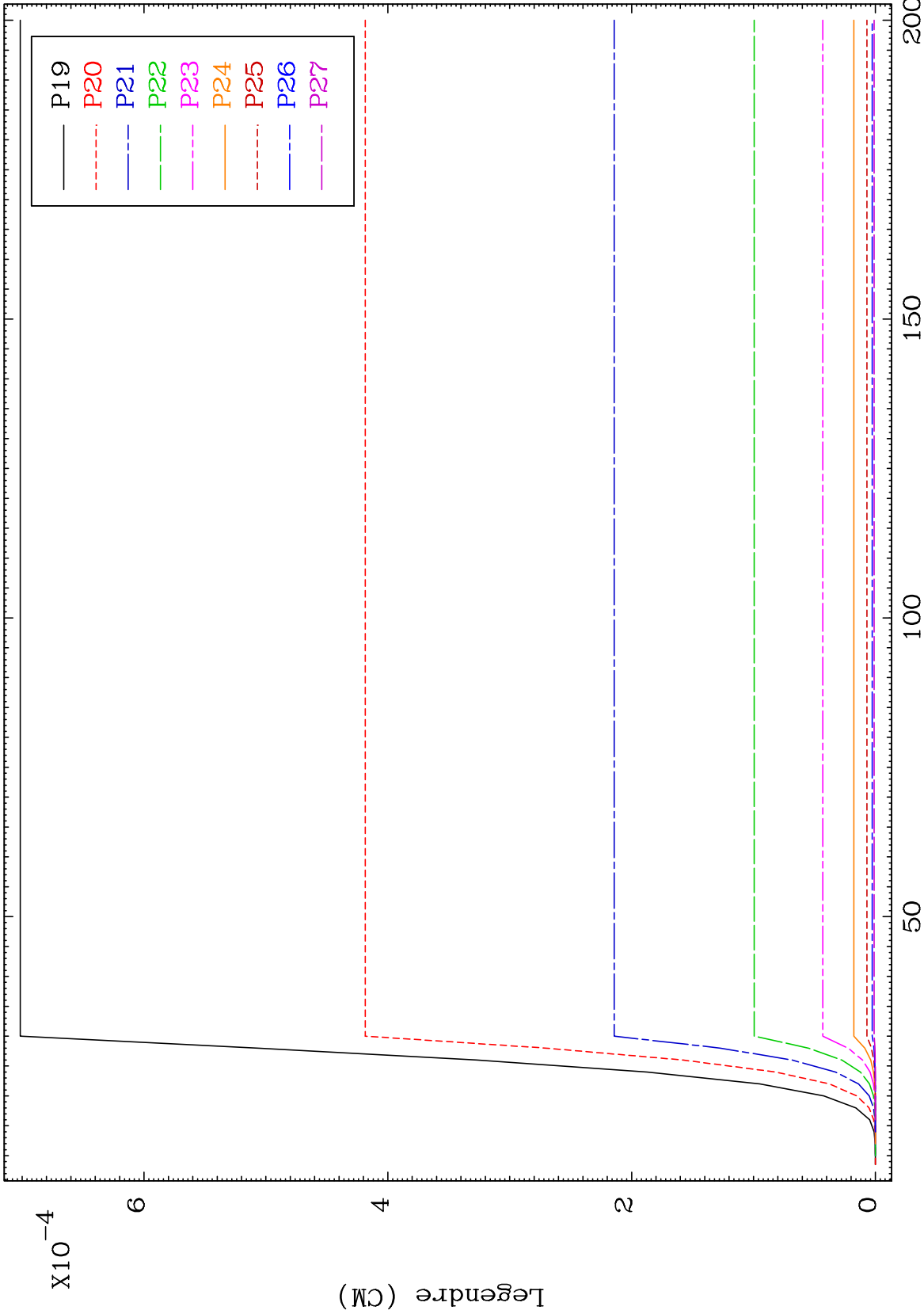
Incident Energy (MeV)

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MAT 4113

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

41-Nb-89



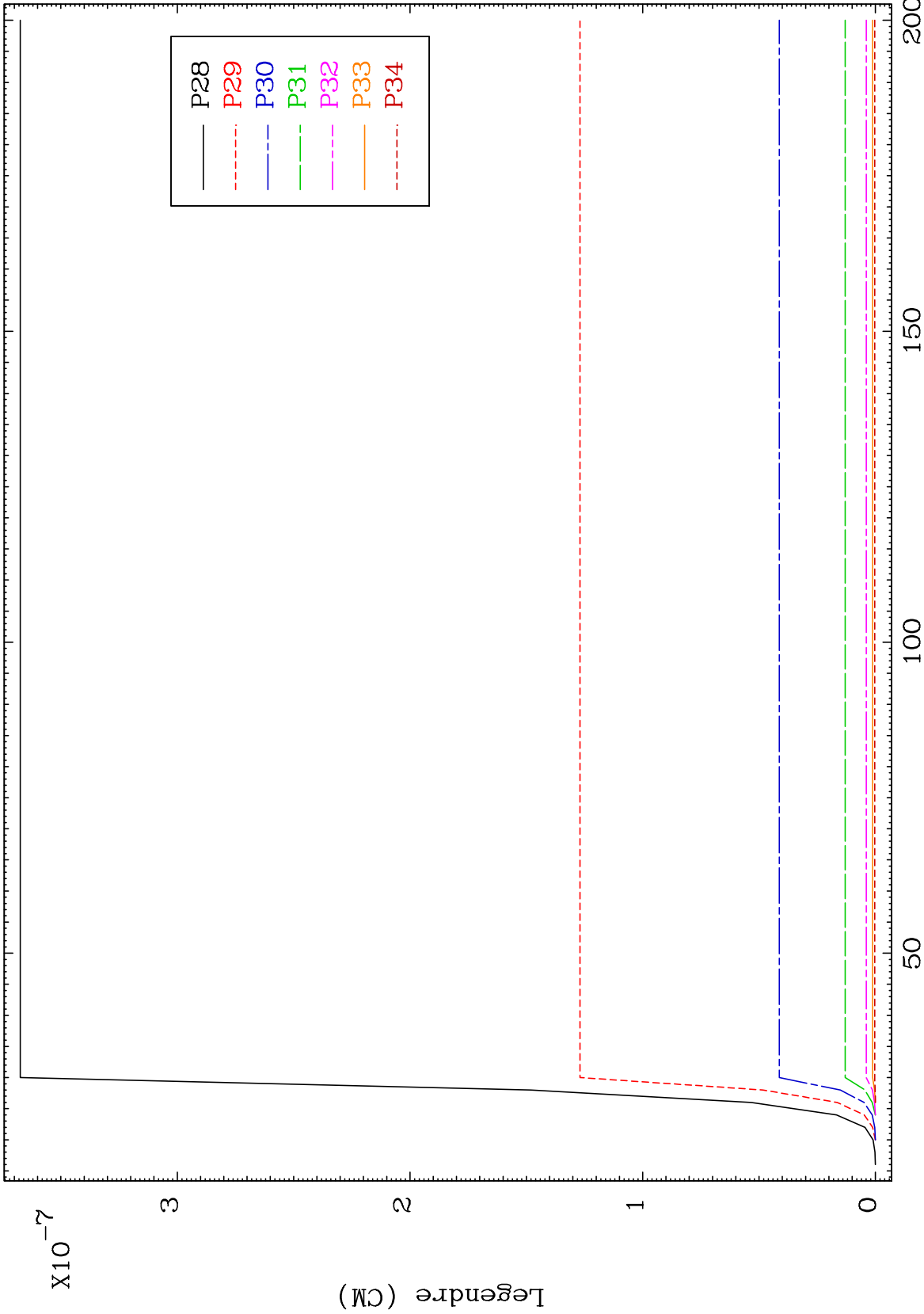
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MAT 4113

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

41-Nb-89



30

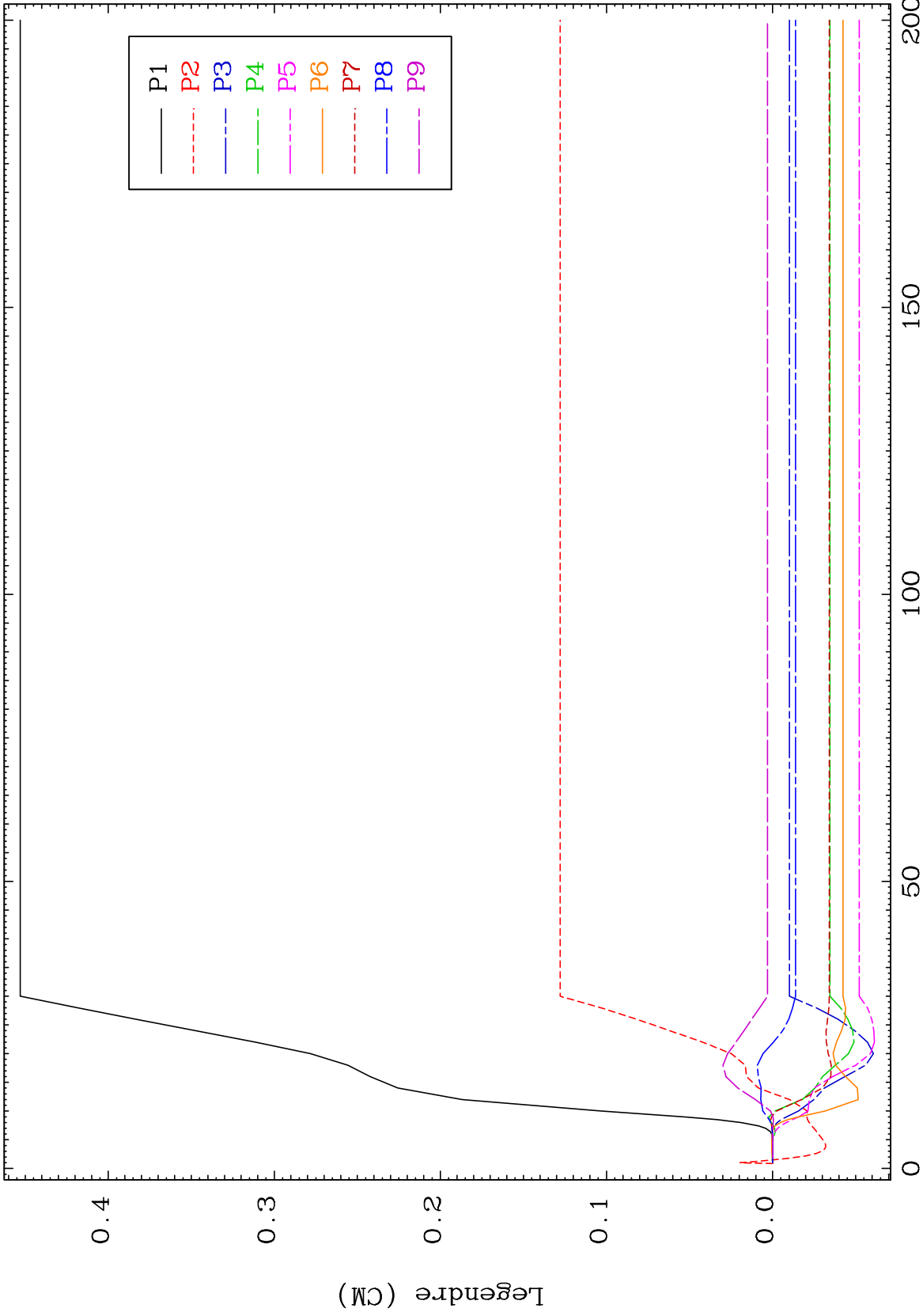
Incident Energy (MeV)

41-Nb-89

MAT 4113

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

41-Nb-89



31

Incident Energy (MeV)

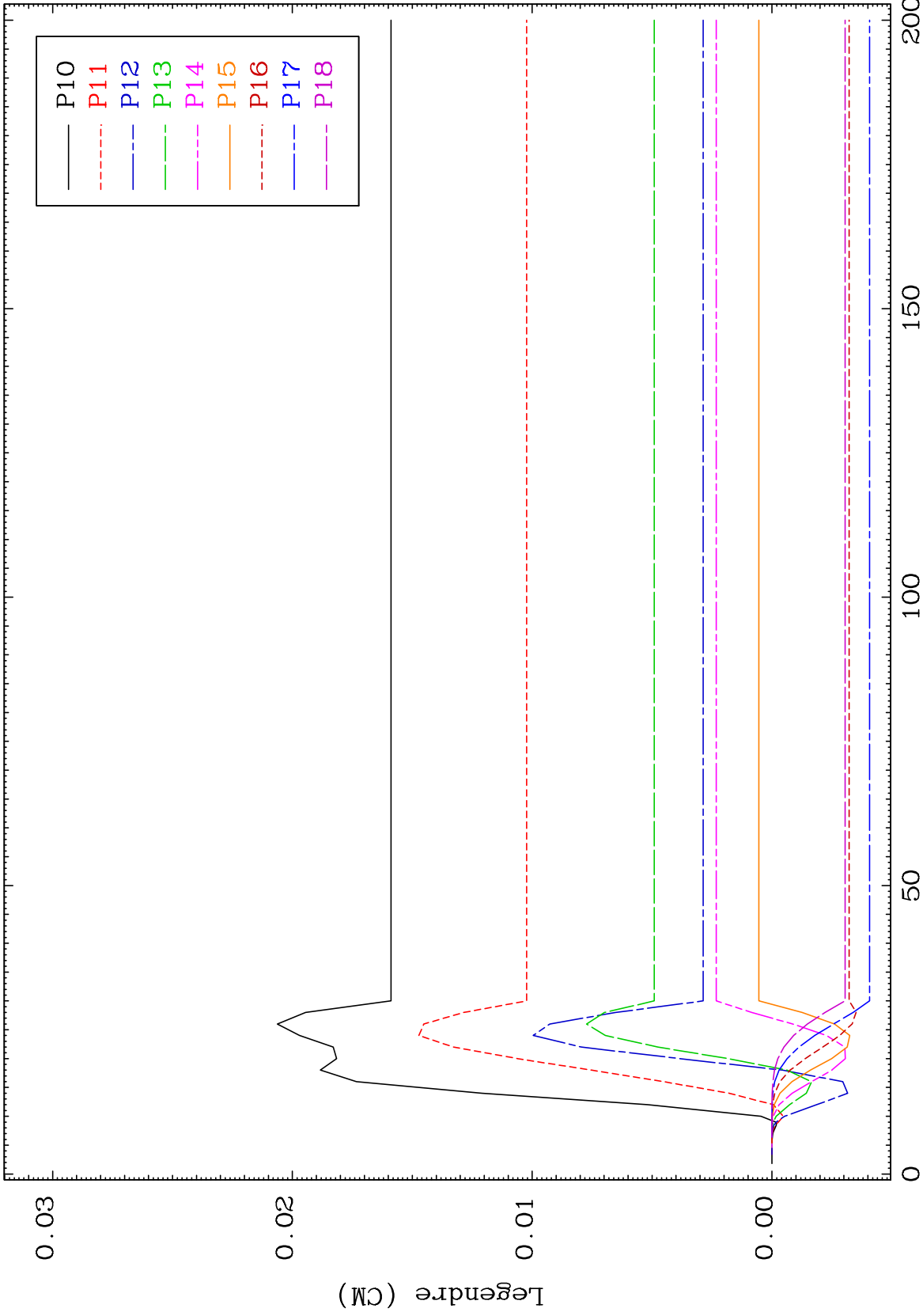
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MAT 4113

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

41-Nb-89



32

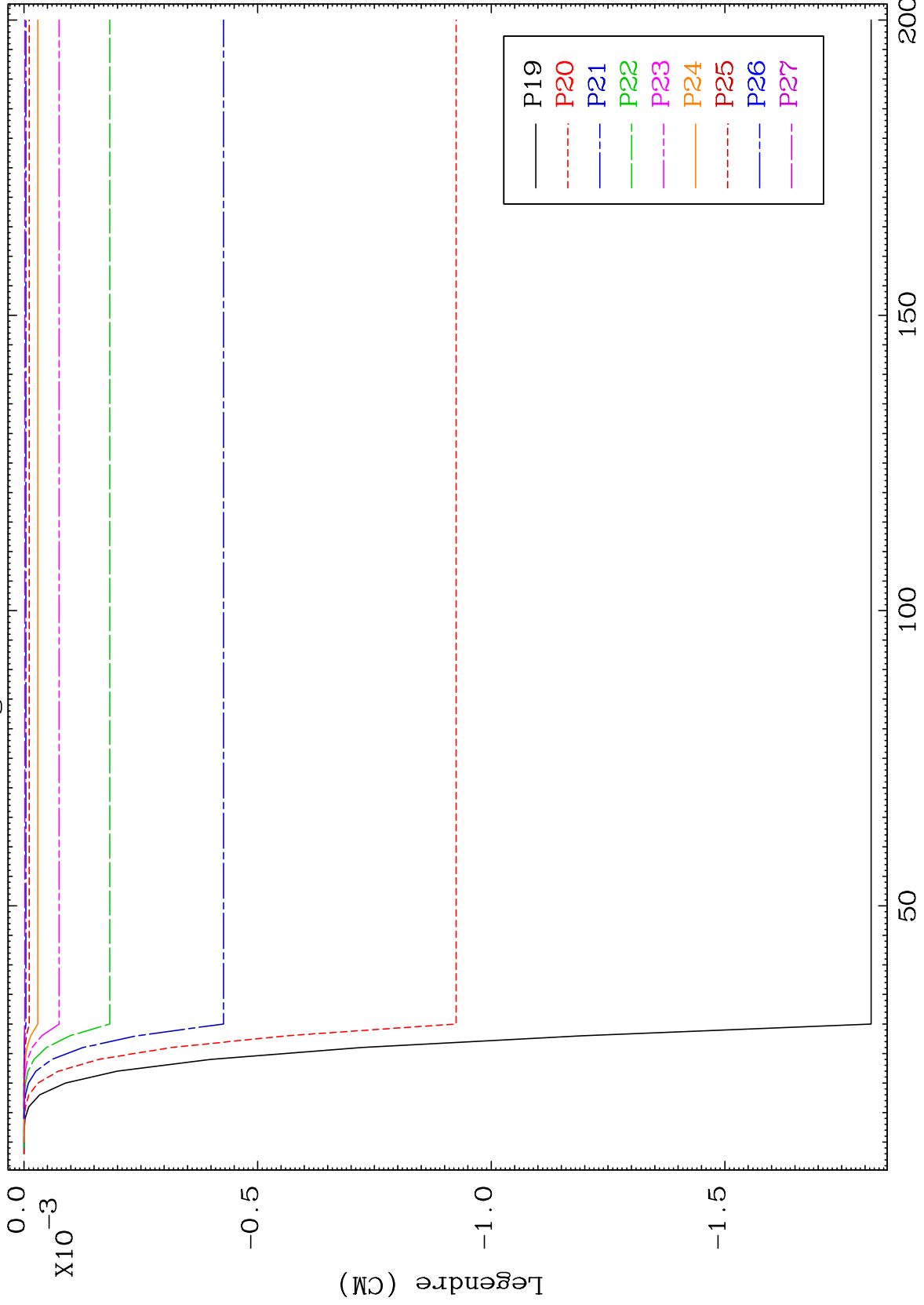
Incident Energy (MeV)

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MAT 4113

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

41-Nb-89



41-Nb-89

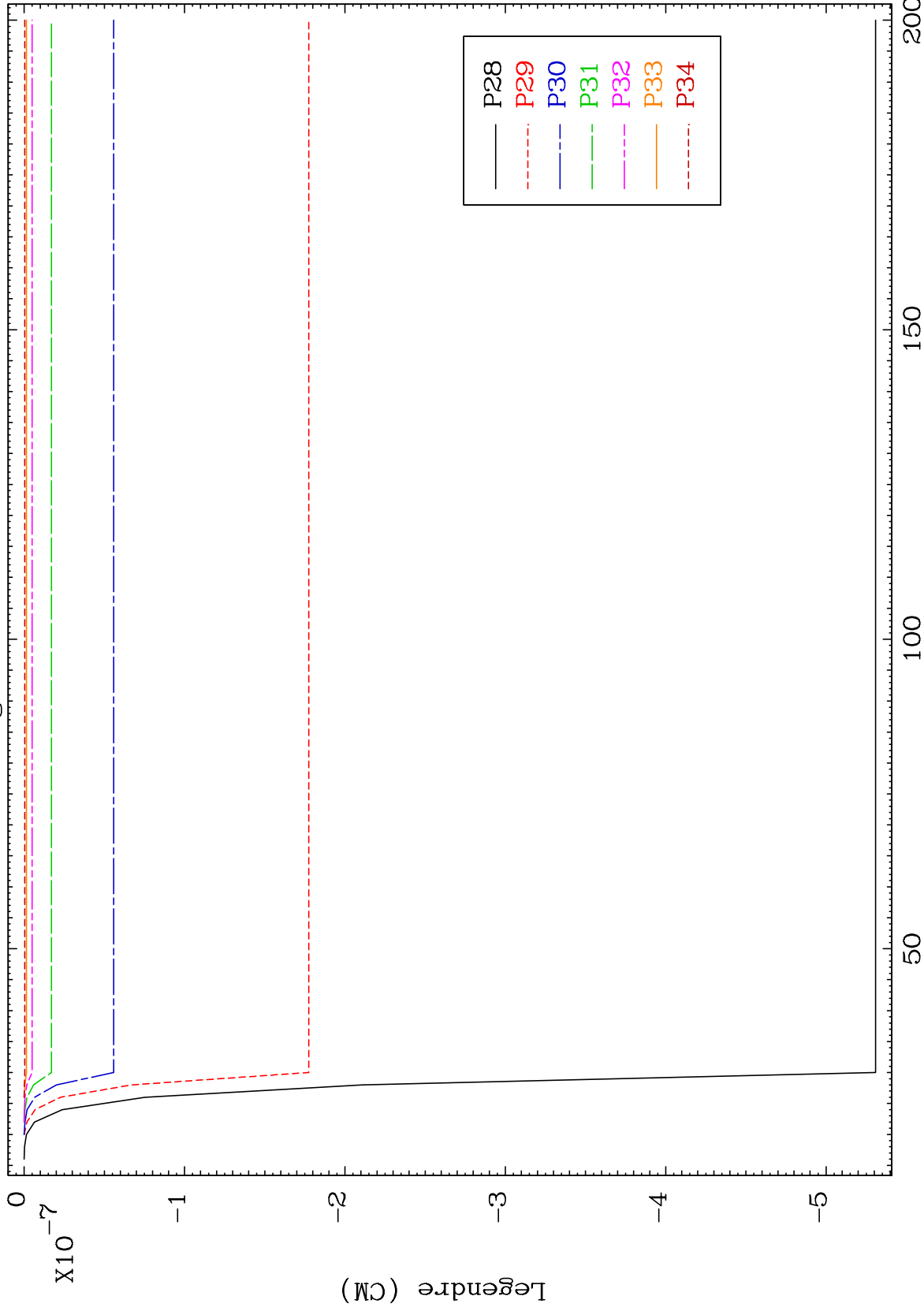
Incident Energy (MeV)

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MAT 4113

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

41-Nb-89



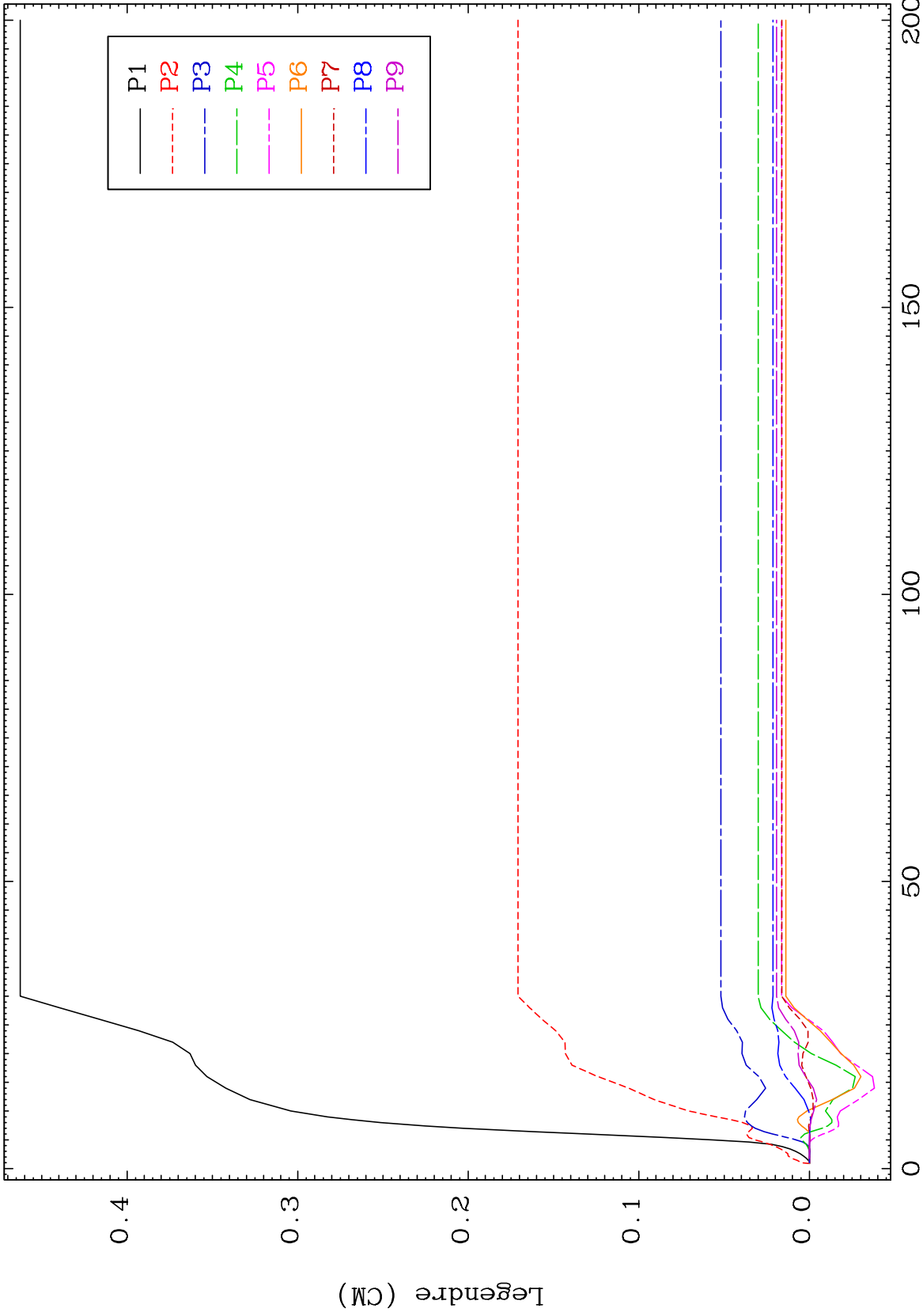
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MAT 4113

MT= 55 (n,n') Level  
Legendre Coefficients

41-Nb-89



35

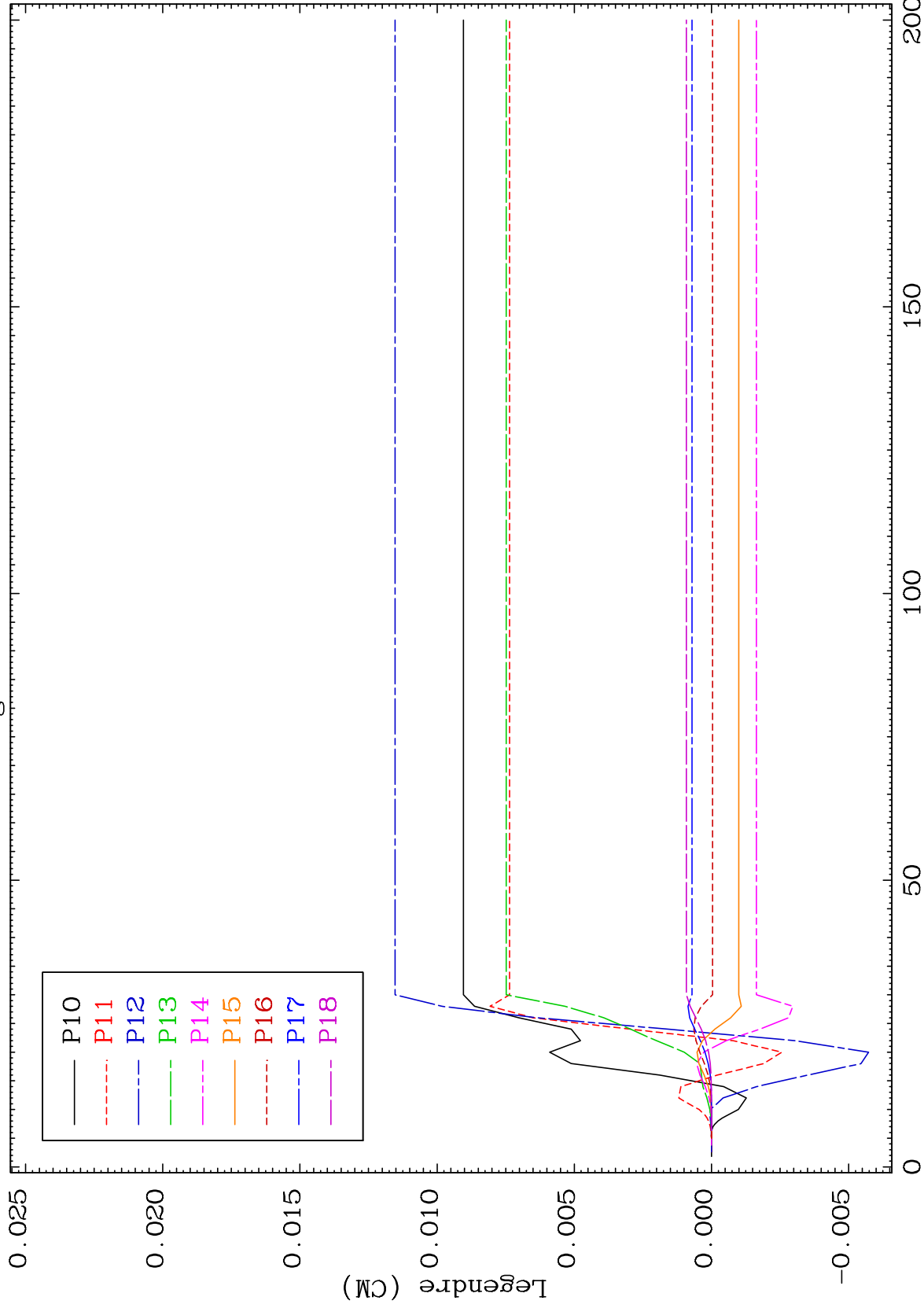
Incident Energy (MeV)

41-Nb-89

MAT 4113

MT= 55 (n,n') Level  
Legendre Coefficients

41-Nb-89



36

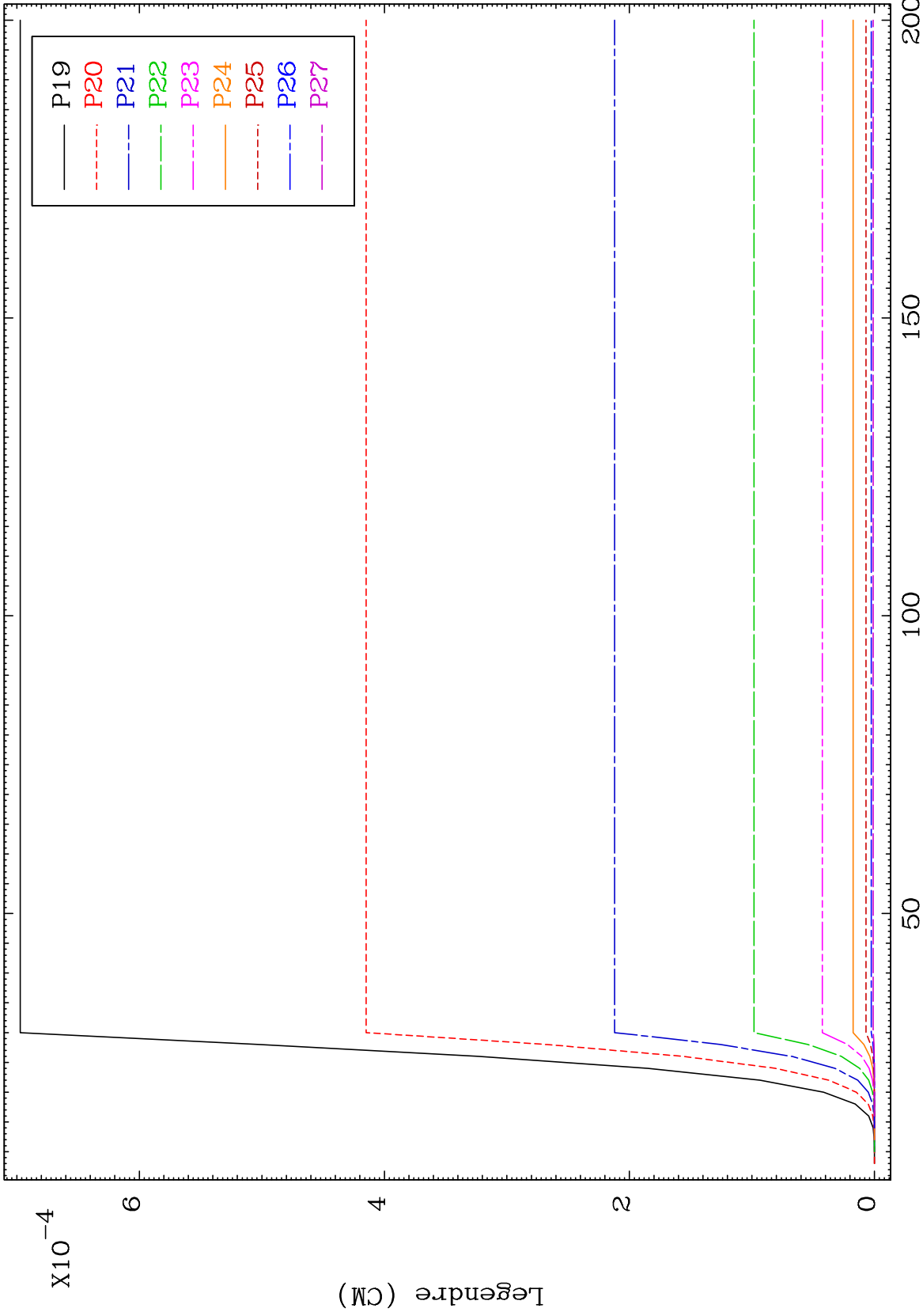
Incident Energy (MeV)

41-Nb-89

MAT 4113

MT= 55 (n,n') Level  
Legendre Coefficients

41-Nb-89



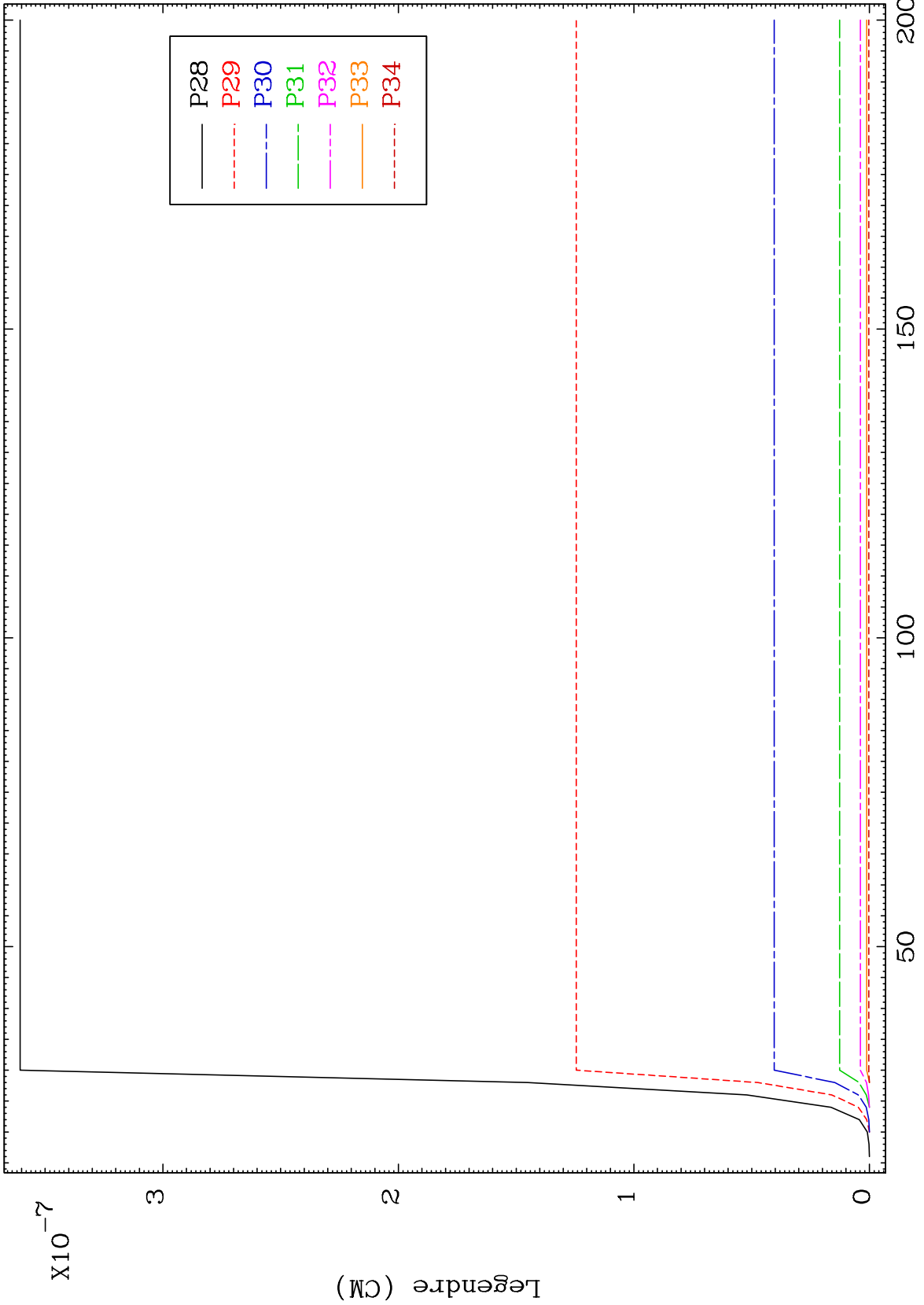
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41-Nb-89

MAT 4113

MT= 55 (n,n') Level  
Legendre Coefficients

41-Nb-89



38

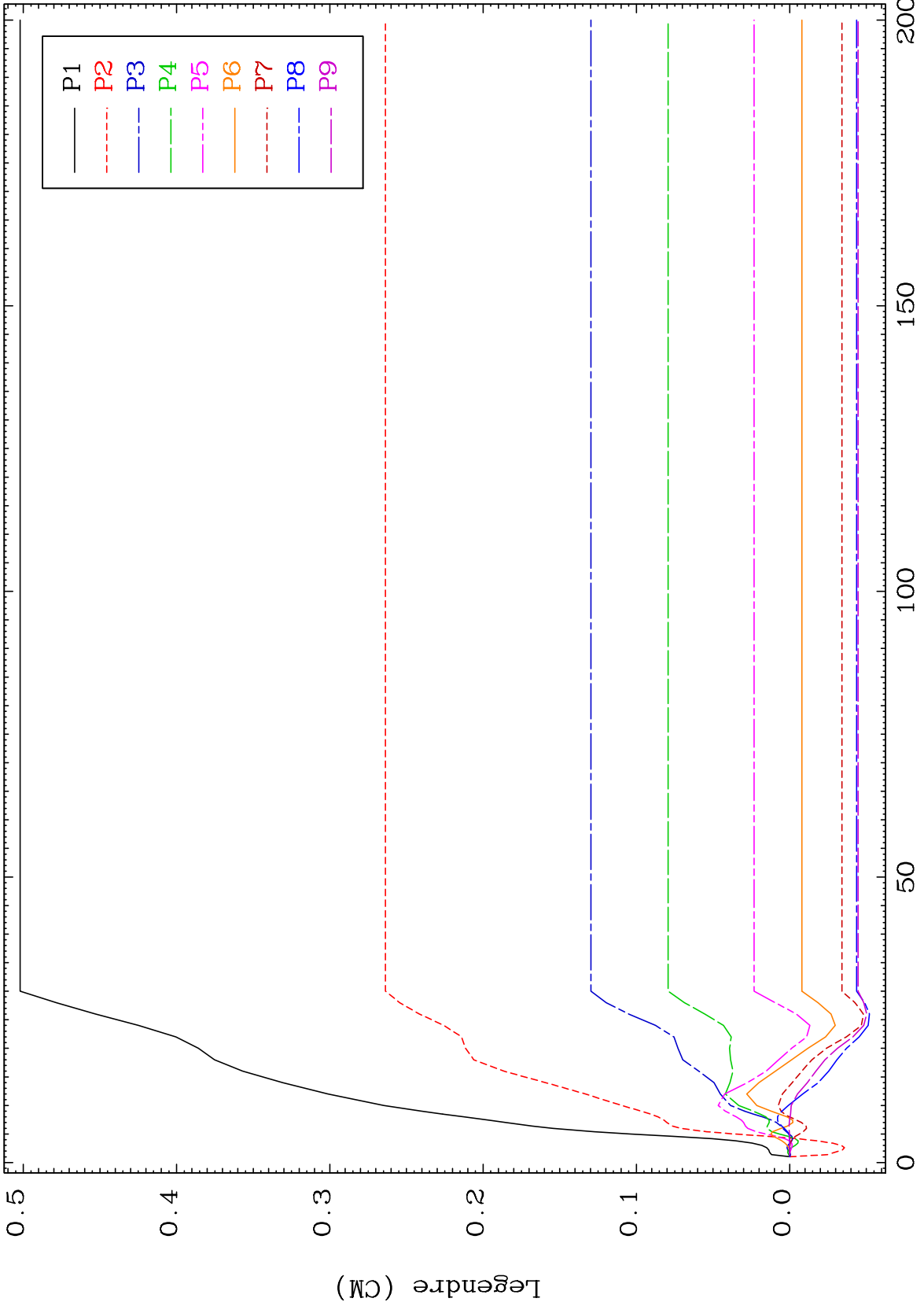
Incident Energy (MeV)

41-Nb-89

MAT 4113

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

41-Nb-89



39

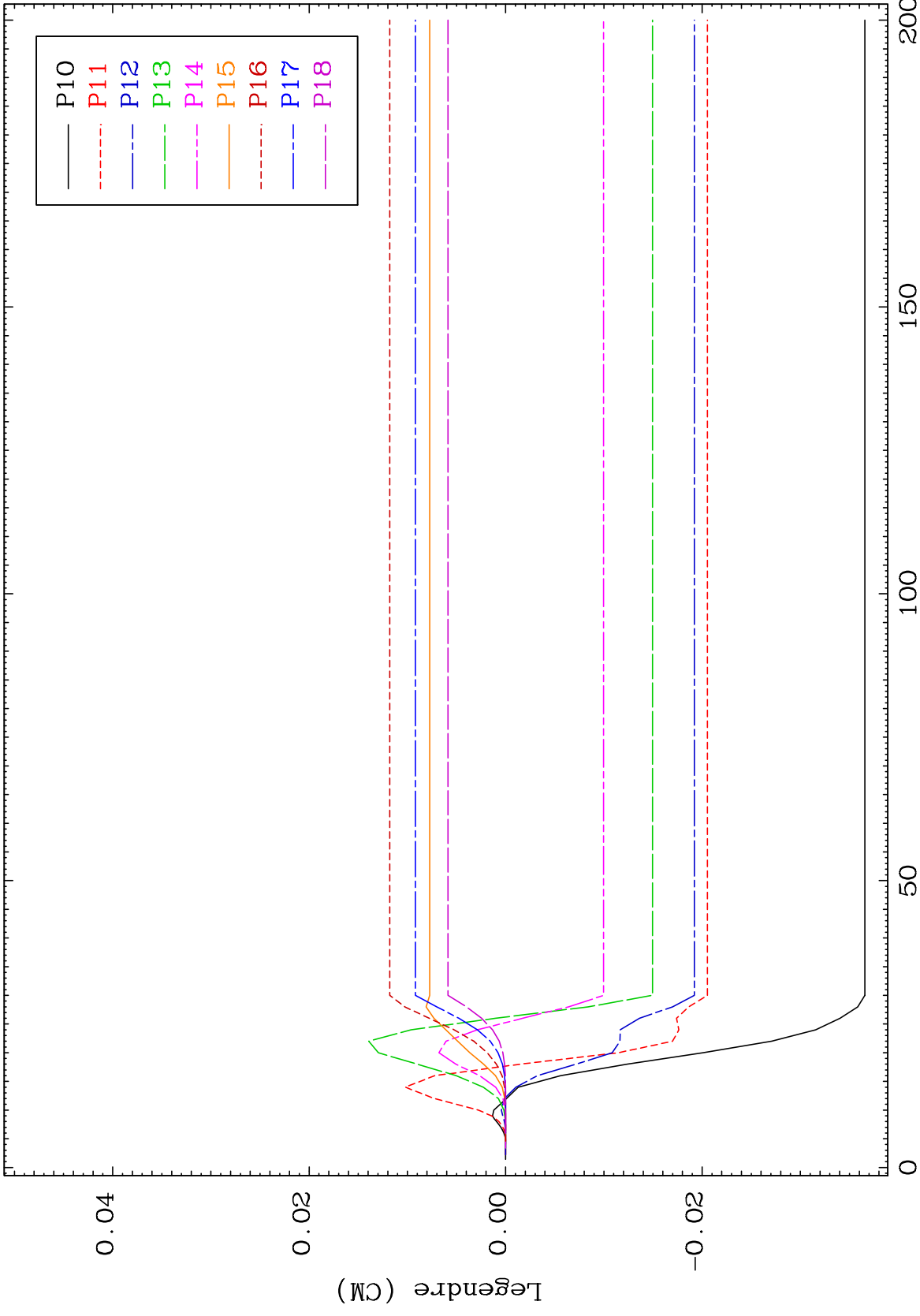
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MAT 4113

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

41-Nb-89



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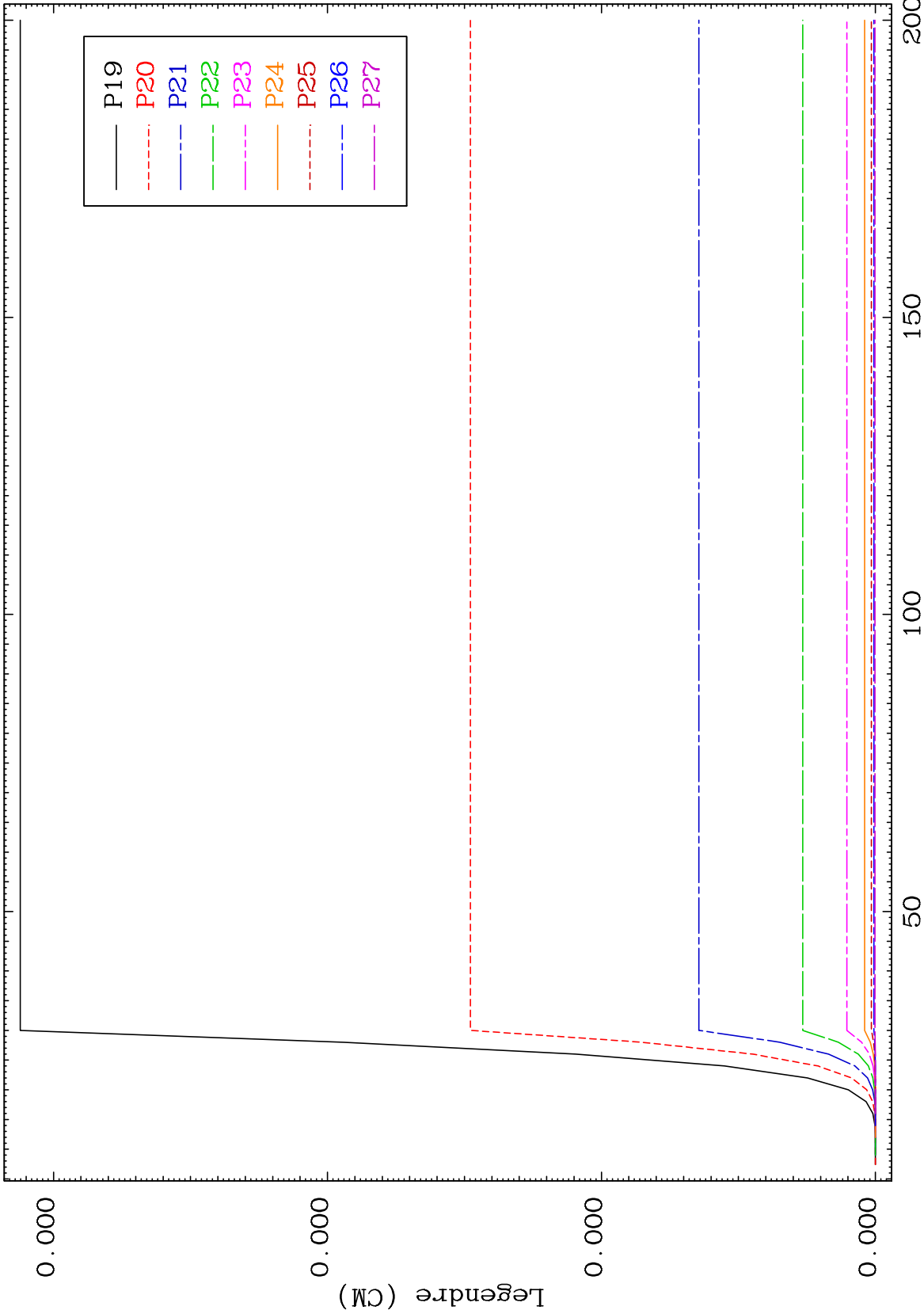
Incident Energy (MeV)

41-Nb-89

MAT 4113

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

41-Nb-89



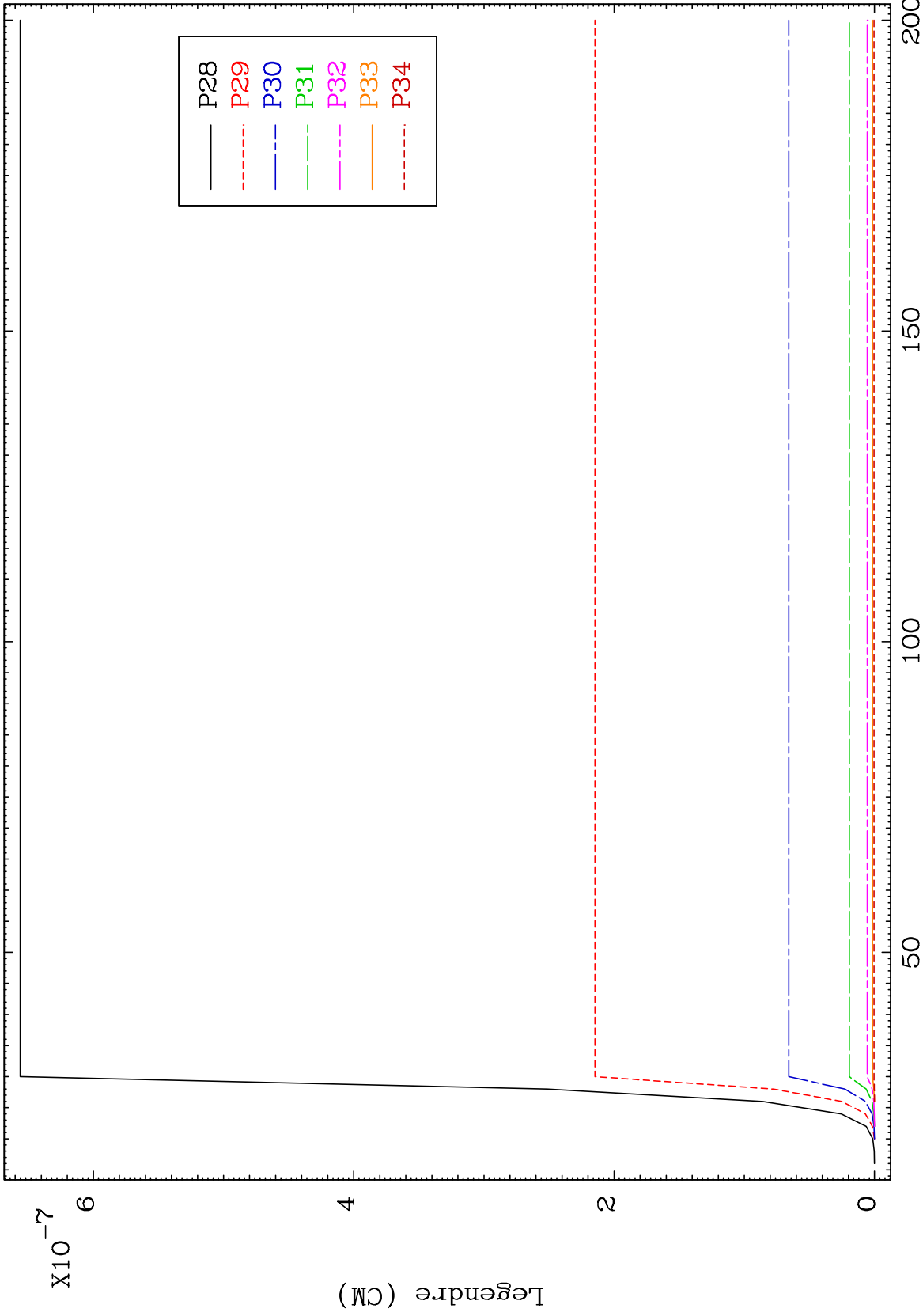
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MAT 4113

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

41-Nb-89



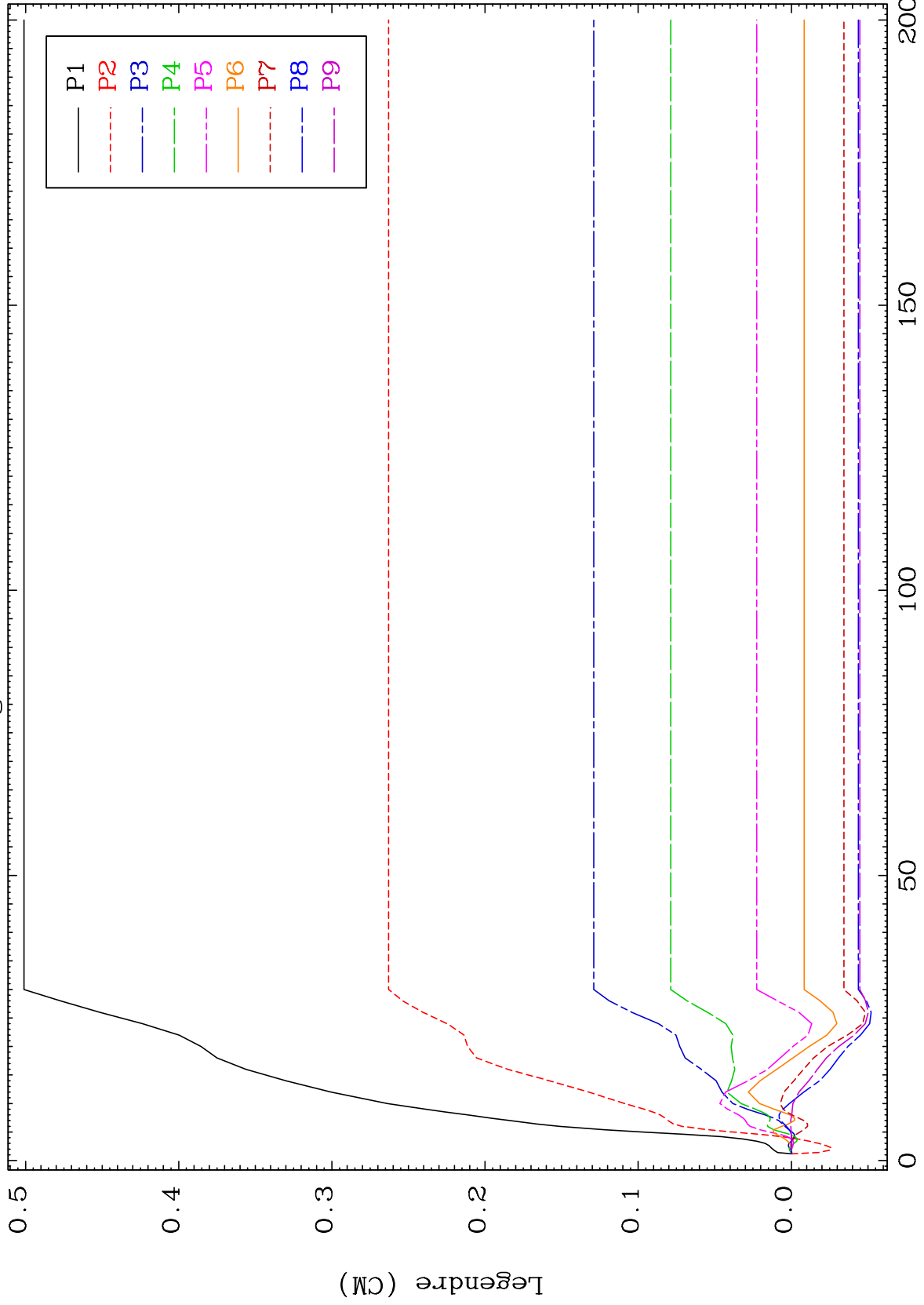
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MAT 4113

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

41-Nb-89



43

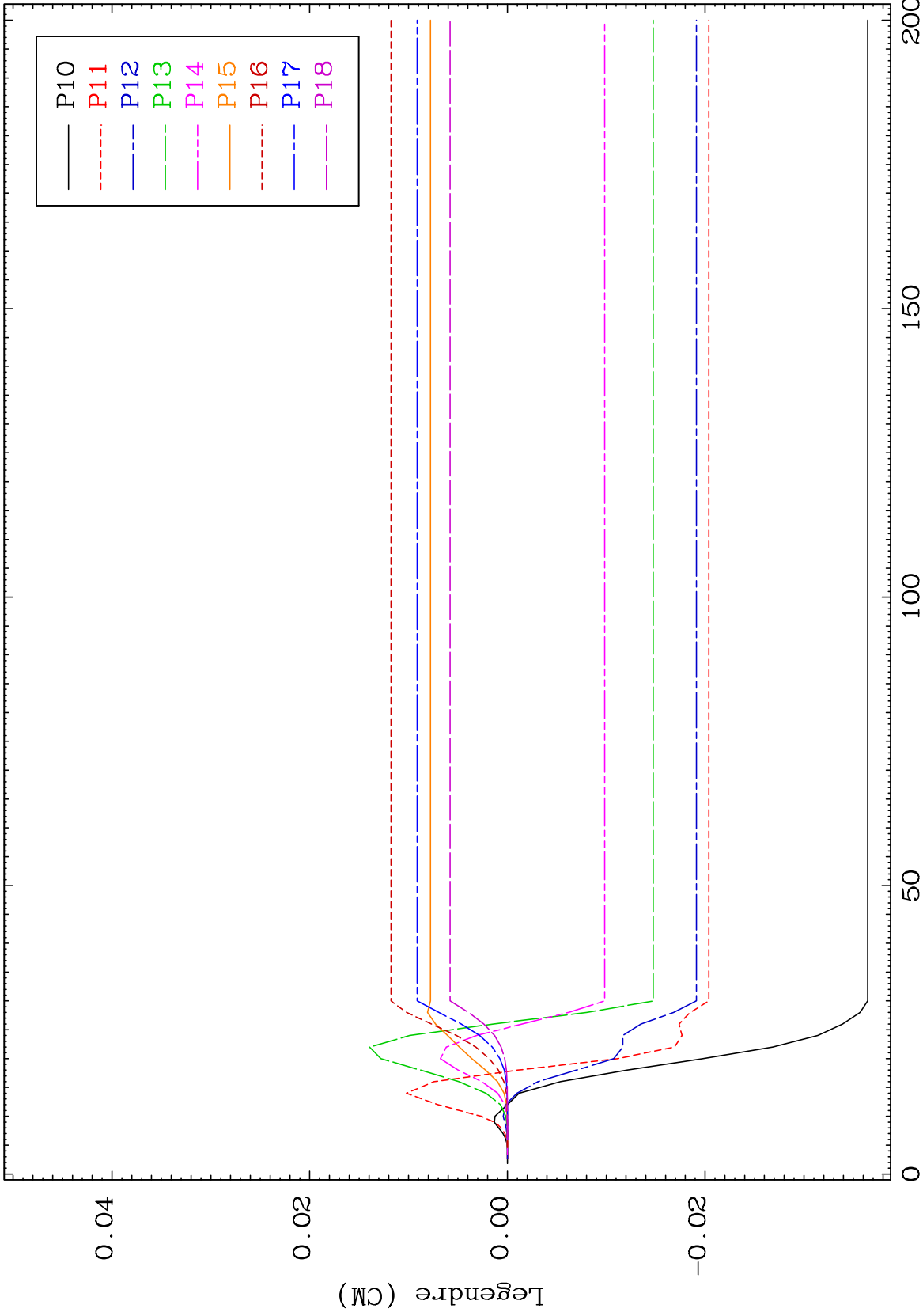
Incident Energy (MeV)

41-Nb-89

MAT 4113

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

41-Nb-89



44

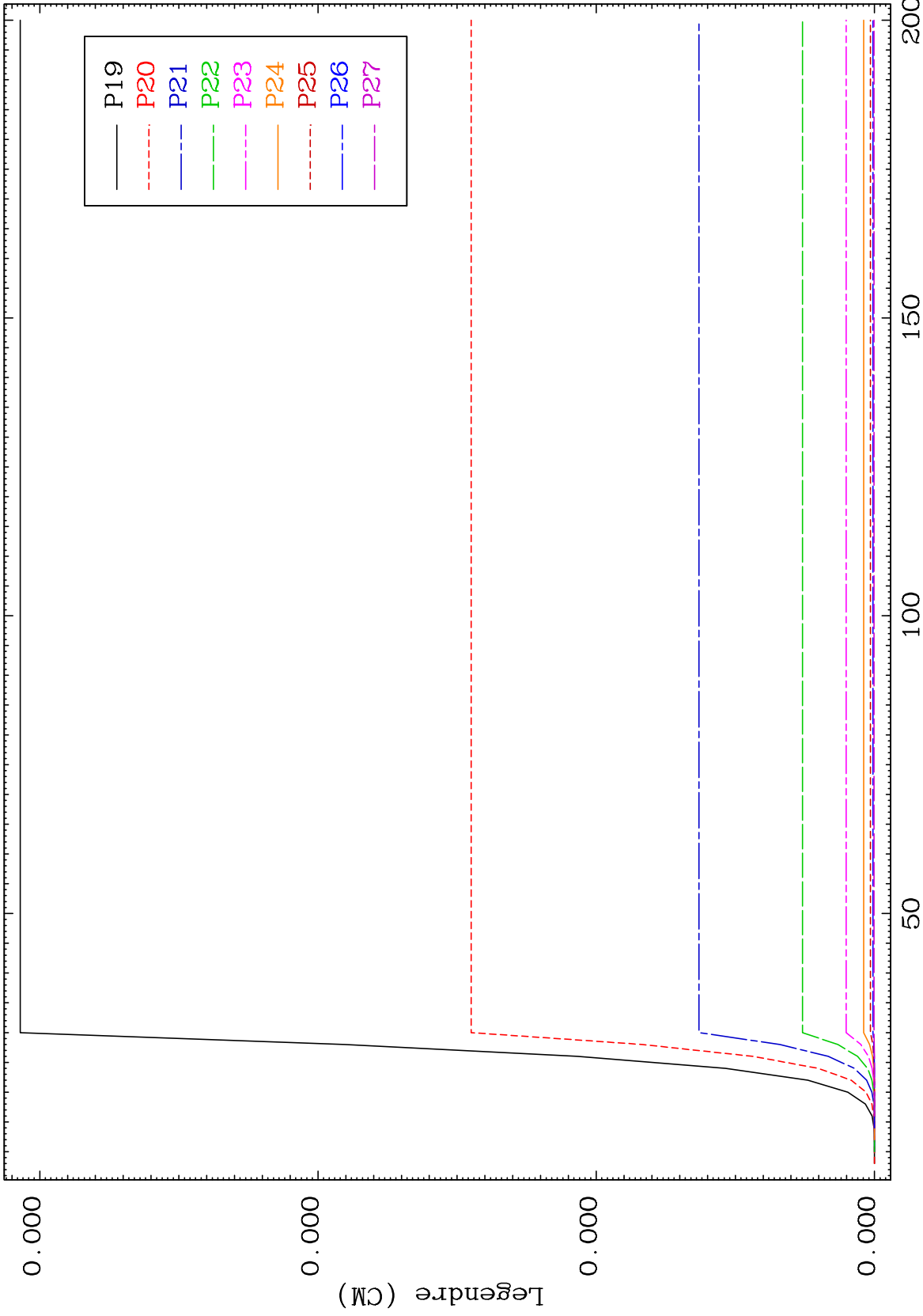
Incident Energy (MeV)

41-Nb-89

MAT 4113

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

41-Nb-89



45

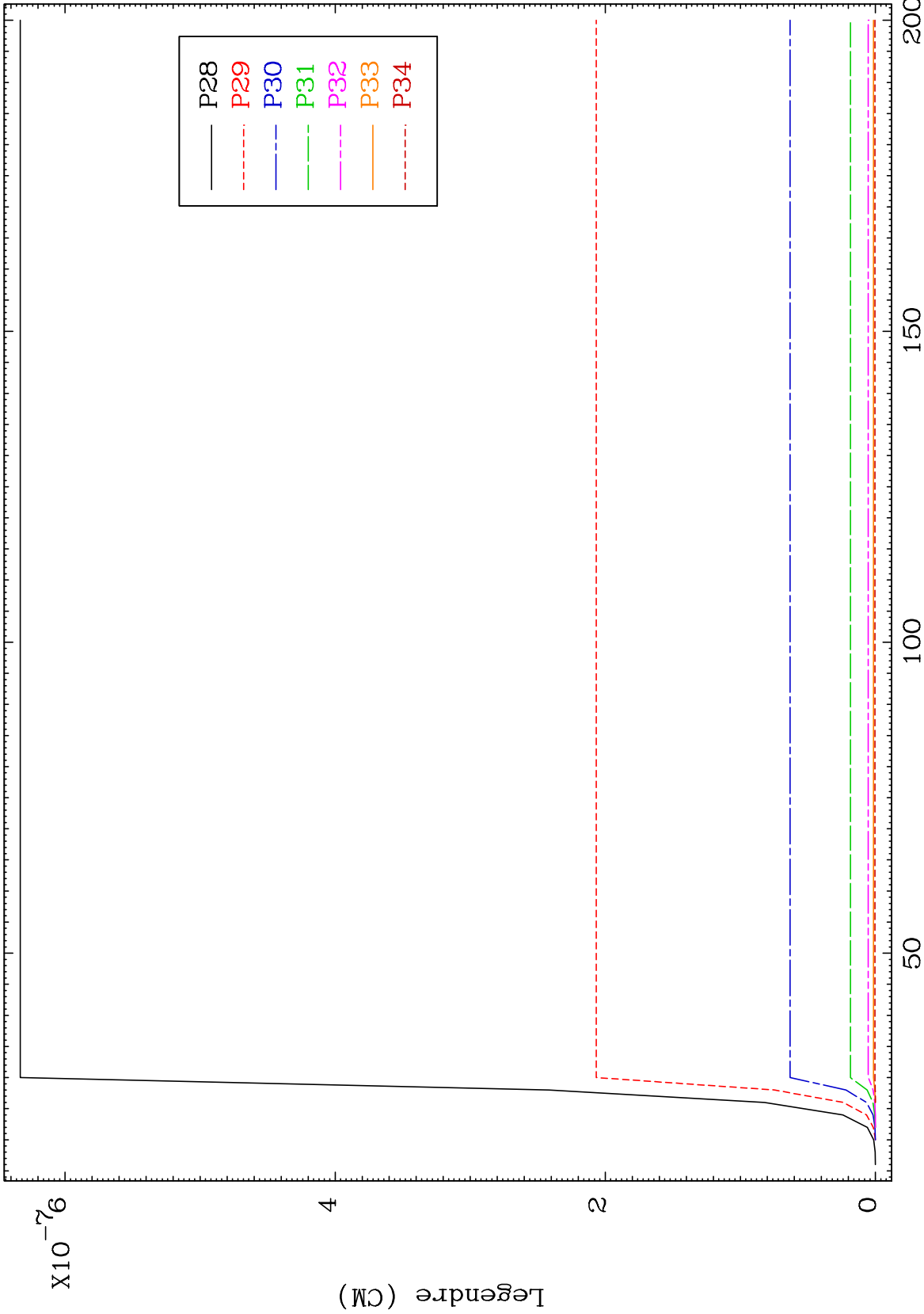
Incident Energy (MeV)

41-Nb-89

MAT 4113

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

41-Nb-89



46

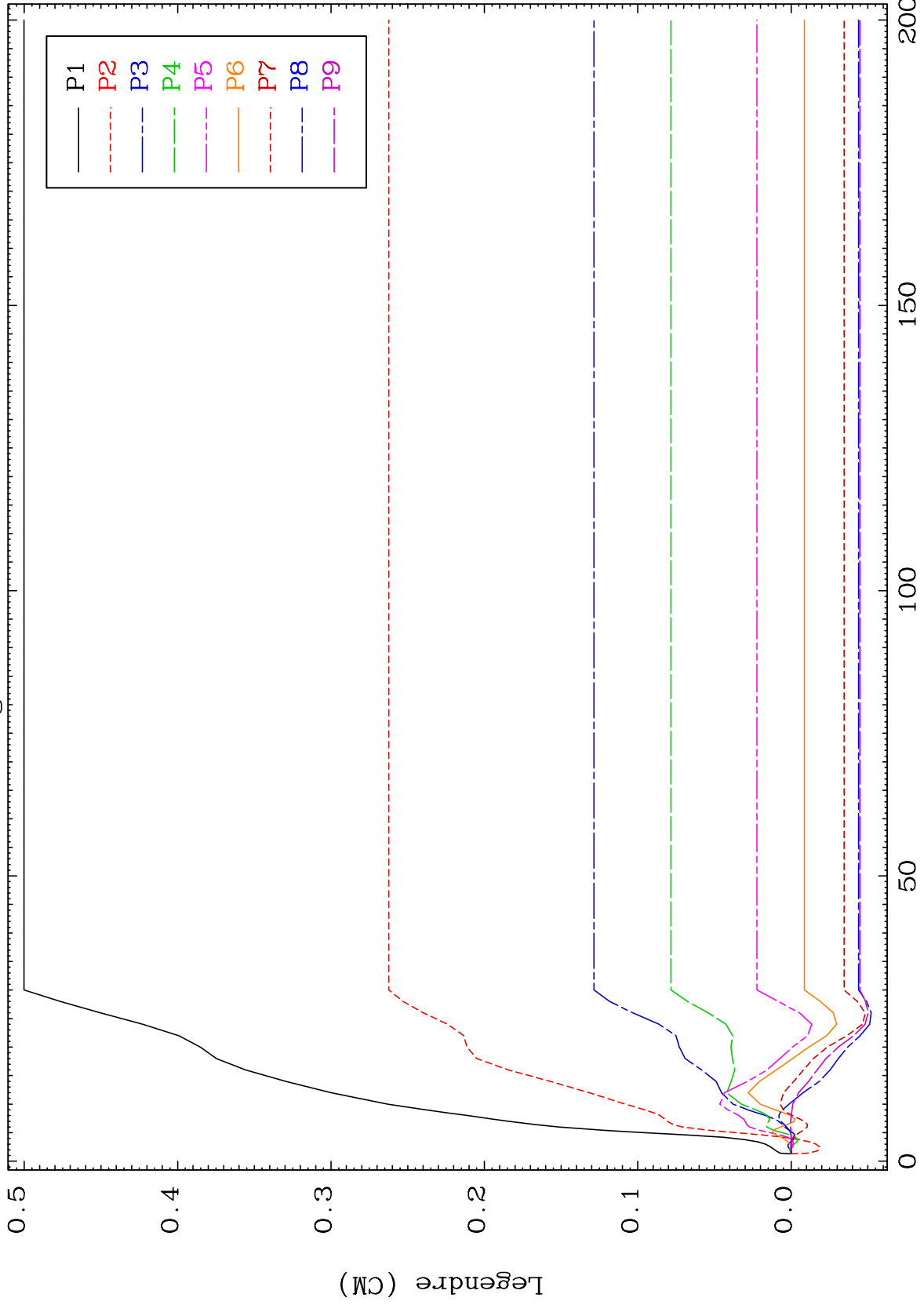
Incident Energy (MeV)

41-Nb-89

MAT 4113

MT= 58 (n,n') Level  
Legendre Coefficients

41-Nb-89



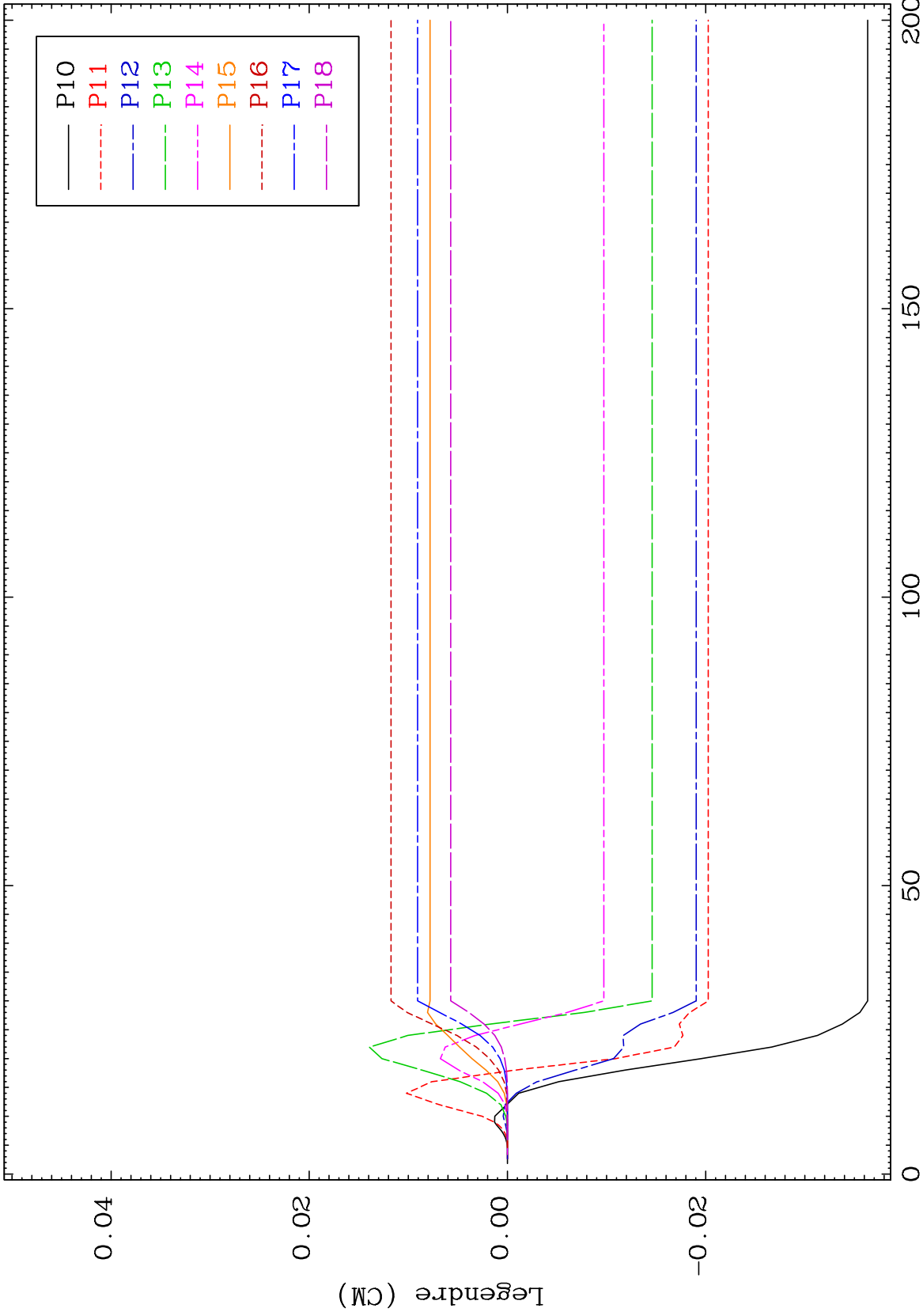
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MAT 4113

MT= 58 (n,n') Level  
Legendre Coefficients

41-Nb-89



48

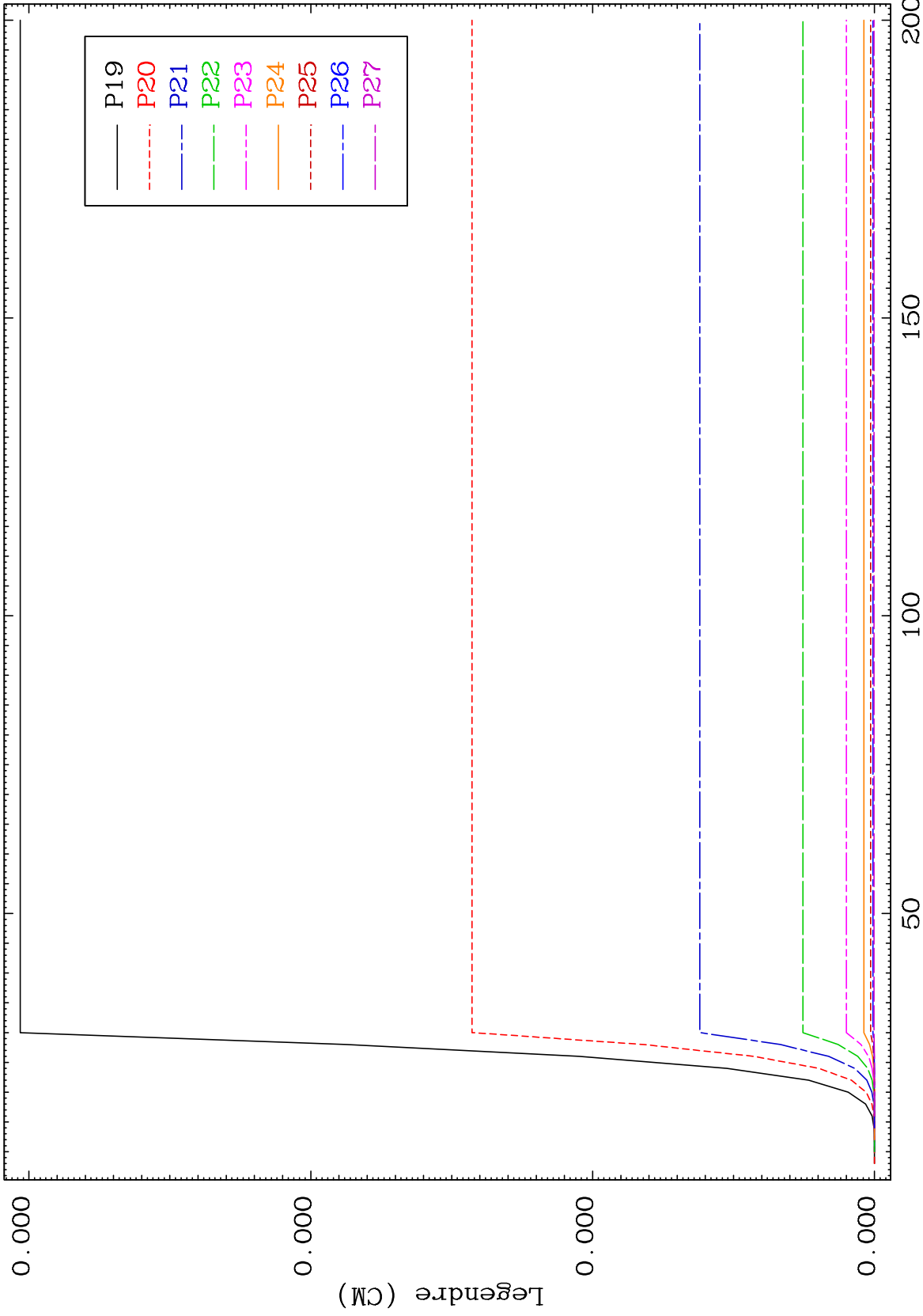
Incident Energy (MeV)

41-Nb-89

MAT 4113

MT= 58 (n,n') Level  
Legendre Coefficients

41-Nb-89



49

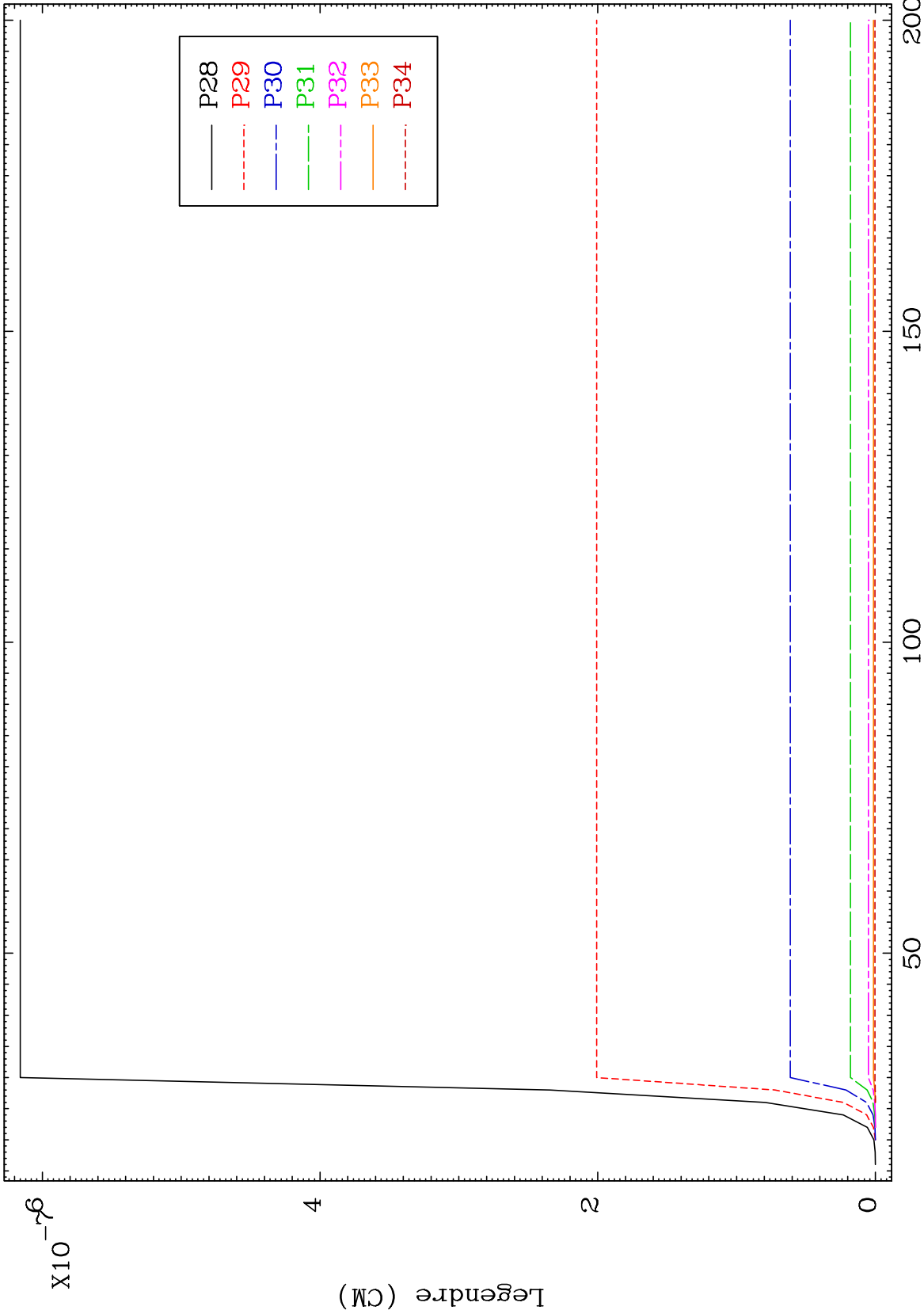
Incident Energy (MeV)

41-Nb-89

MAT 4113

MT= 58 (n,n') Level  
Legendre Coefficients

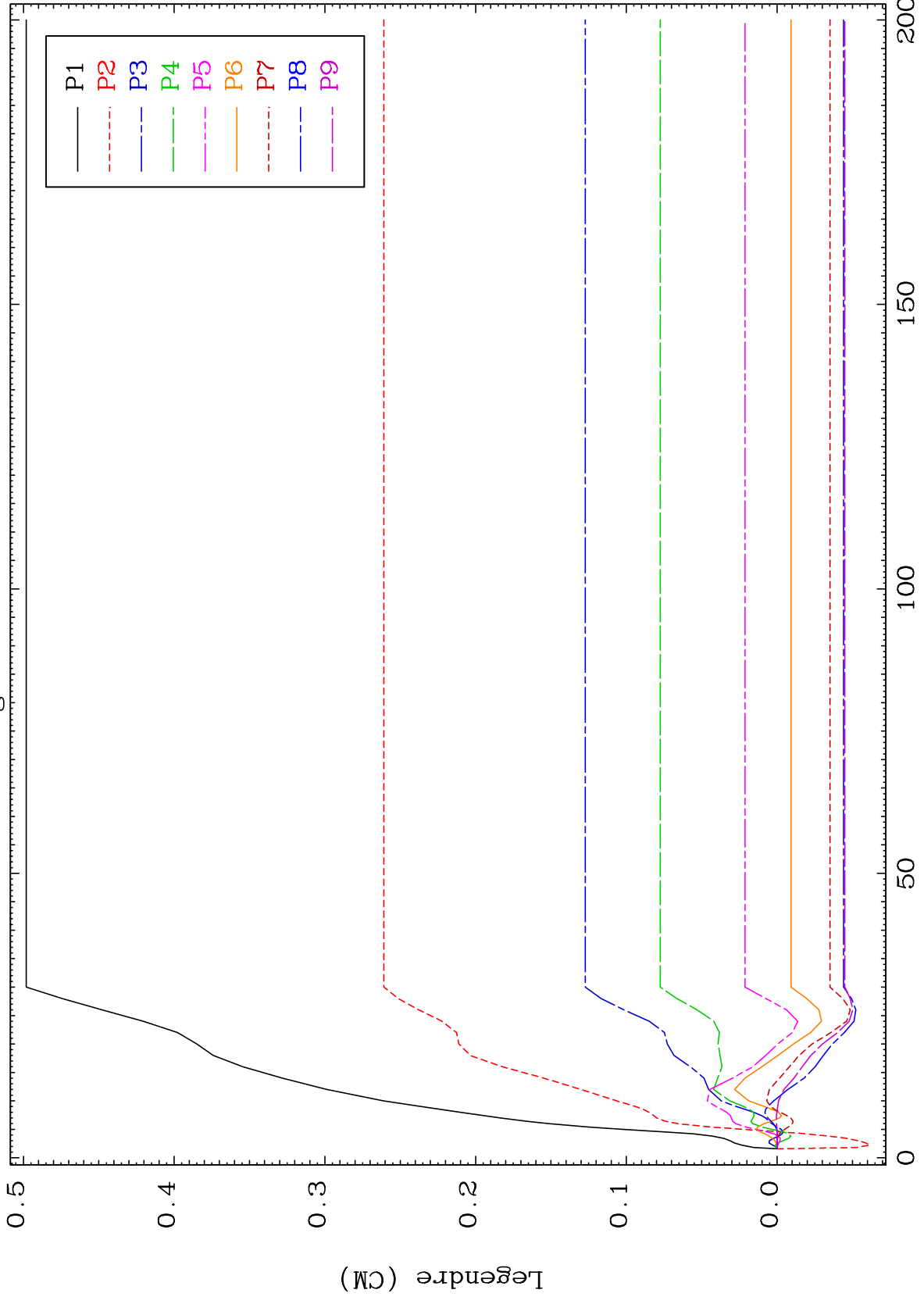
41-Nb-89



50

Incident Energy (MeV)

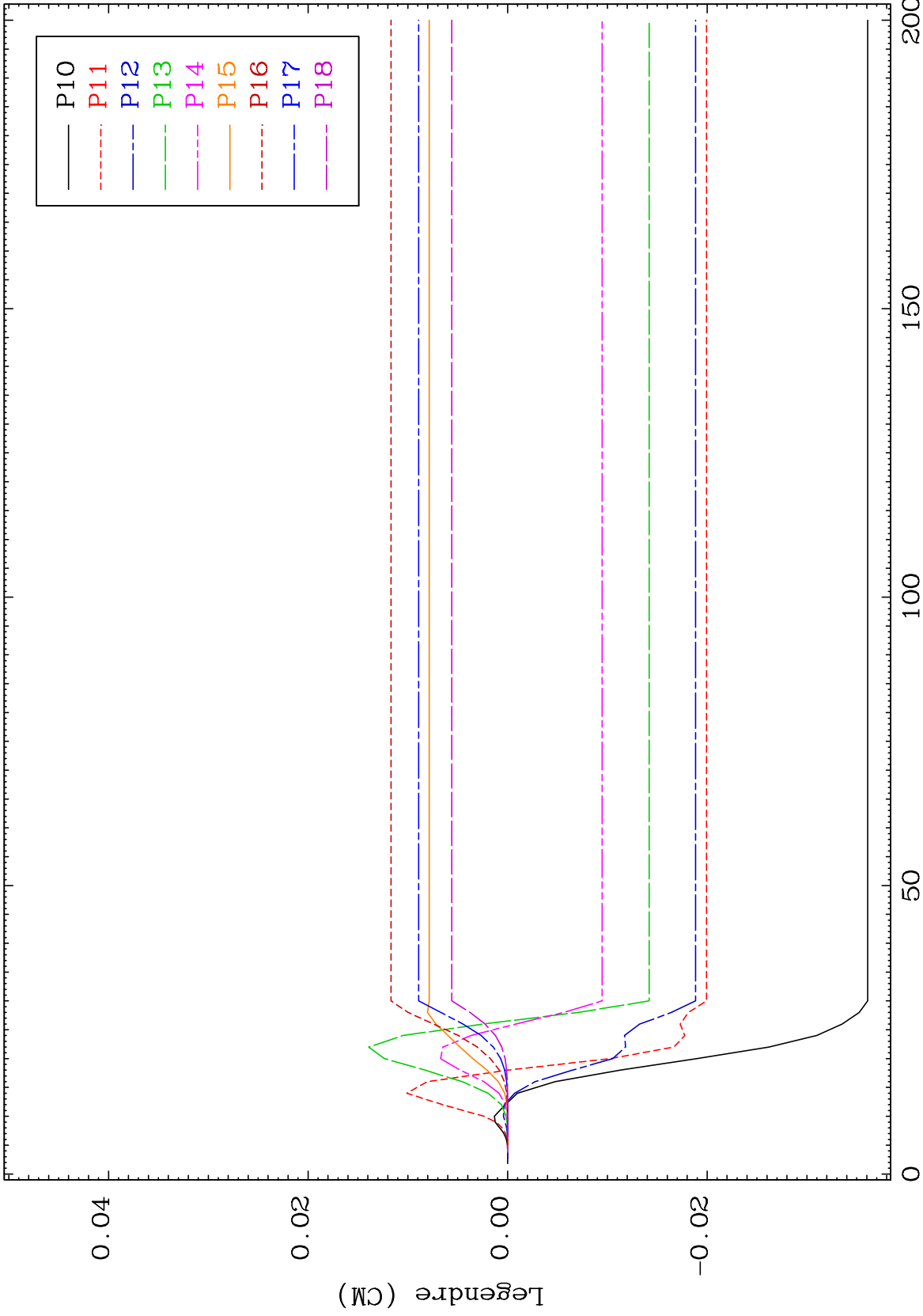
41-Nb-89



MAT 4113

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

41-Nb-89



52

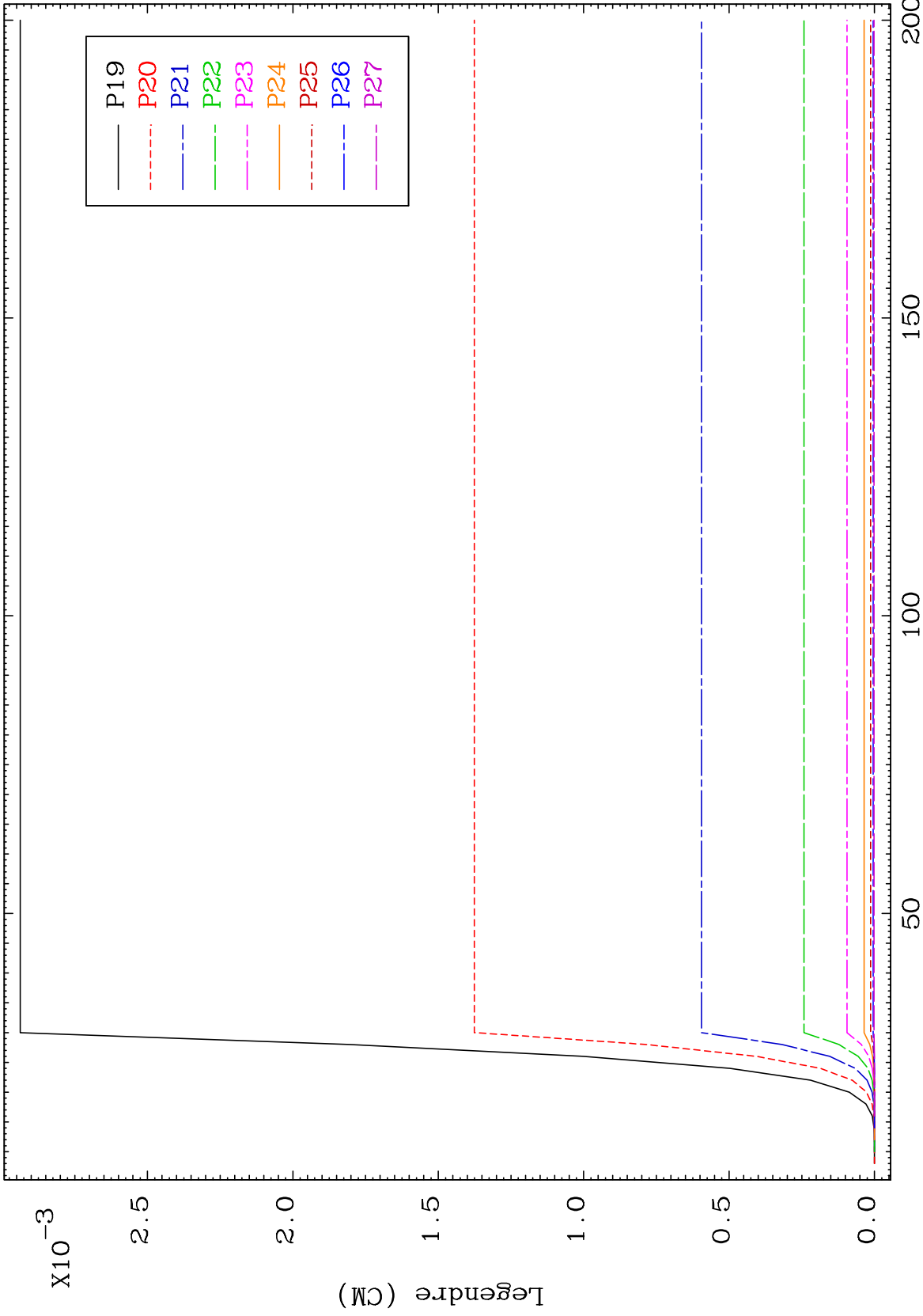
Incident Energy (MeV)

41-Nb-89

MAT 4113

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

41-Nb-89



53

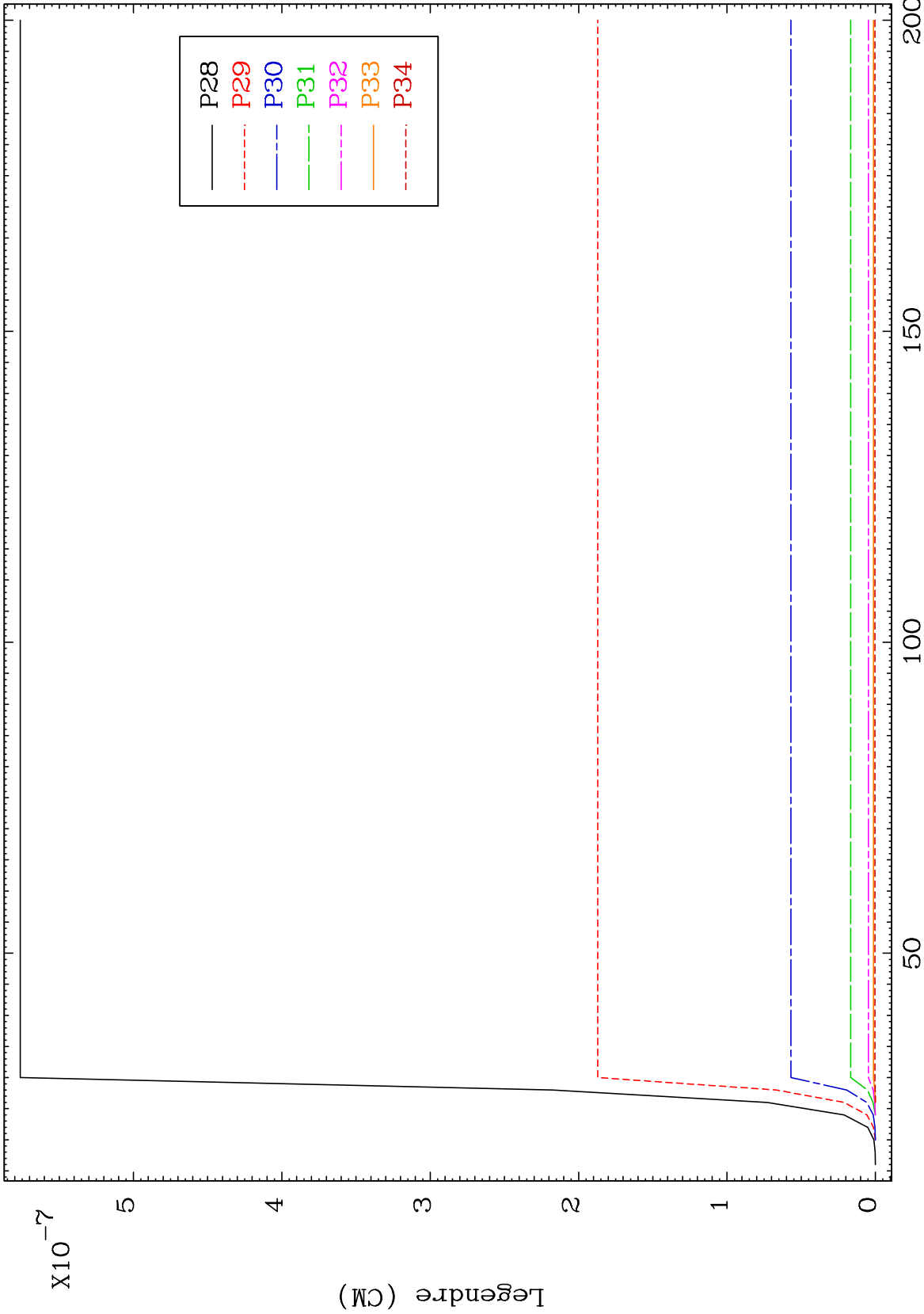
Incident Energy (MeV)

41-Nb-89

MAT 4113

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

41-Nb-89

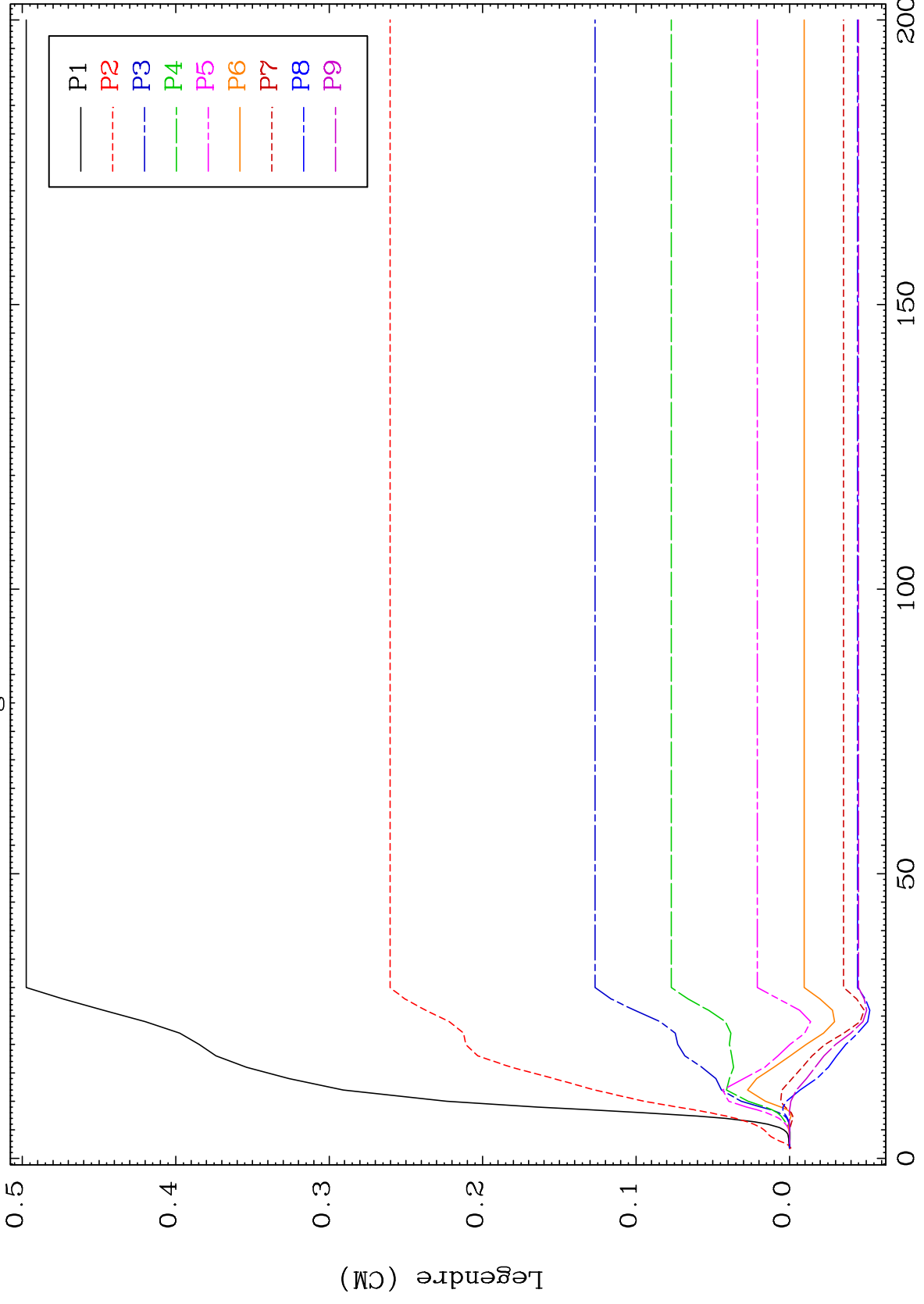


54

Incident Energy (MeV)

41-Nb-89

MAT 4113 MT= 60 (n,n') Level Legendre Coefficients 41-Nb-89



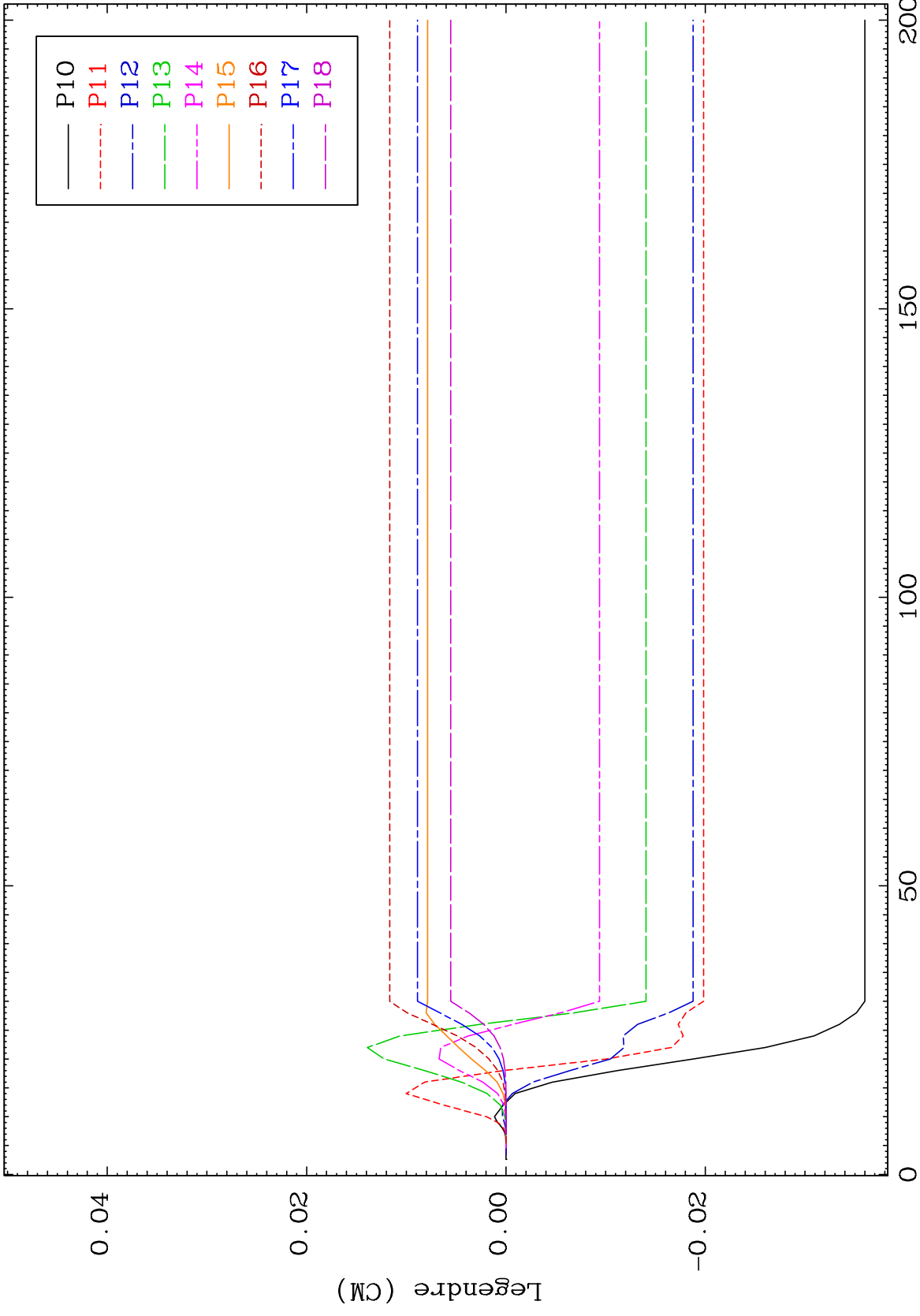
55 Incident Energy (MeV) 41-Nb-89



MAT 4113

MT= 60 (n,n') Level  
Legendre Coefficients

41-Nb-89



56

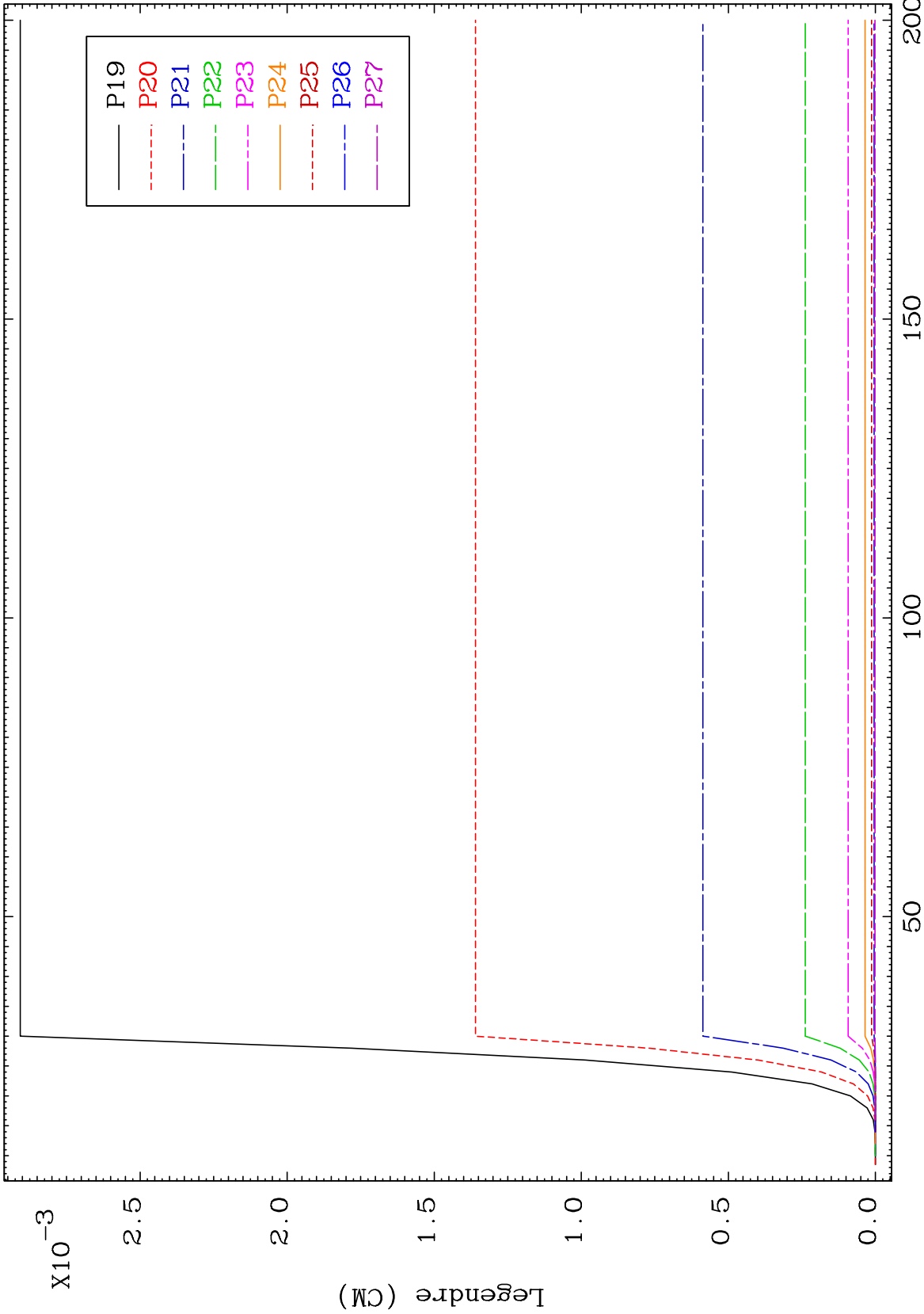
Incident Energy (MeV)

41-Nb-89

MAT 4113

MT= 60 (n,n') Level  
Legendre Coefficients

41-Nb-89



57

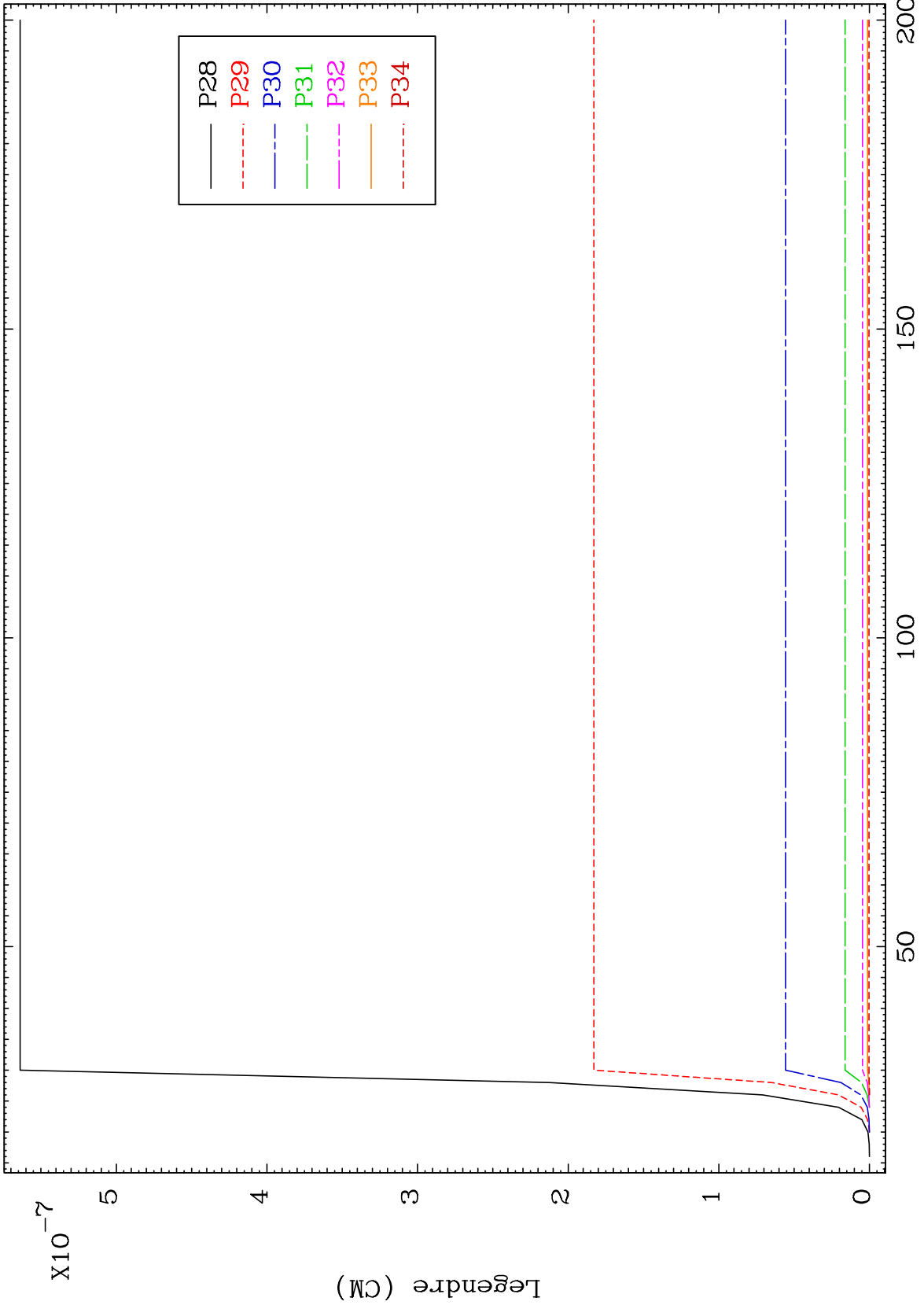
Incident Energy (MeV)

41-Nb-89

MAT 4113

MT= 60 (n,n') Level  
Legendre Coefficients

41-Nb-89

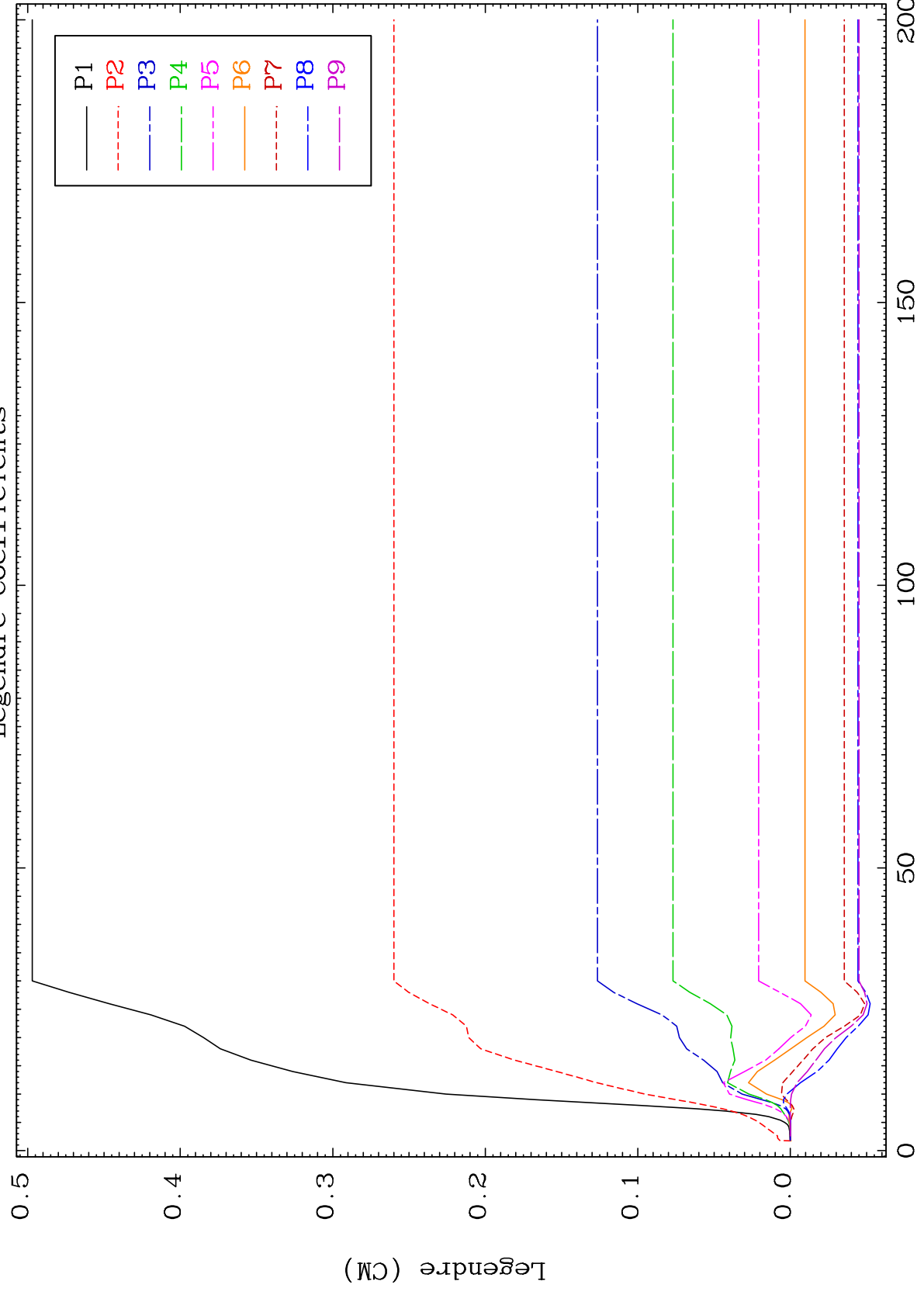


58

Incident Energy (MeV)

41-Nb-89

MAT 4113 MT= 61 (n,n') Level Legendre Coefficients 41-Nb-89

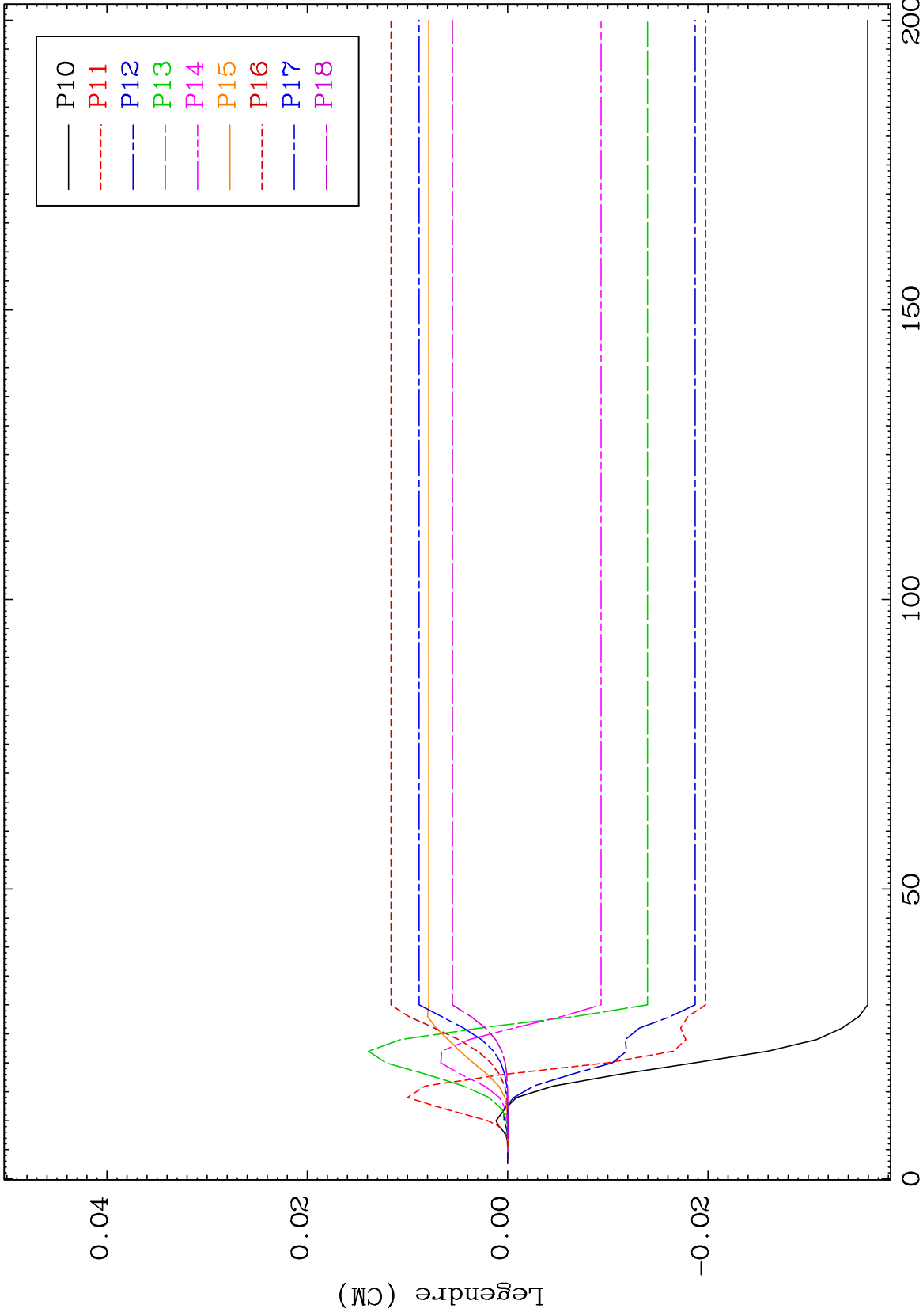


59 41-Nb-89

MAT 4113

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

41-Nb-89



60

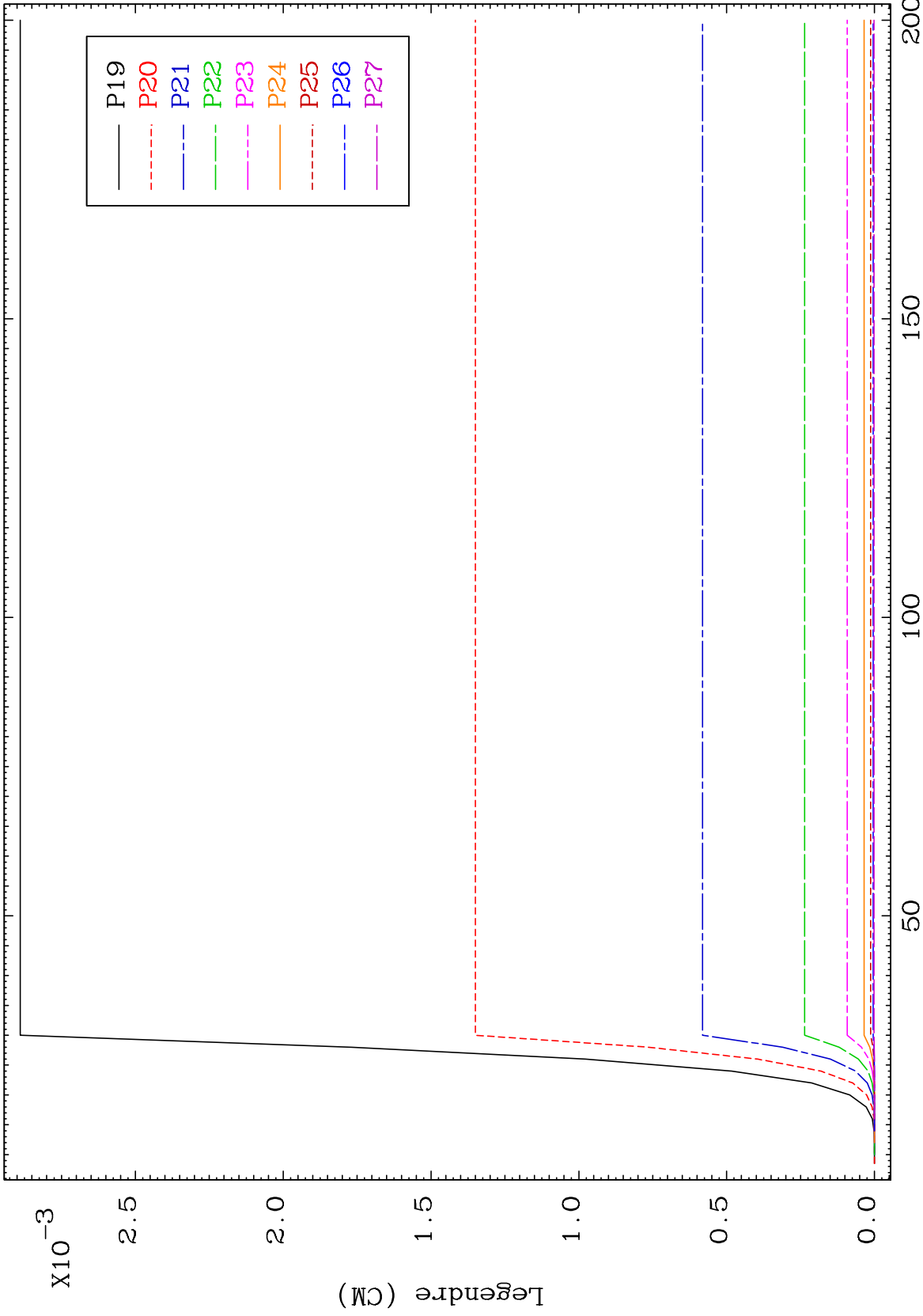
Incident Energy (MeV)

41-Nb-89

MAT 4113

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

41-Nb-89



61

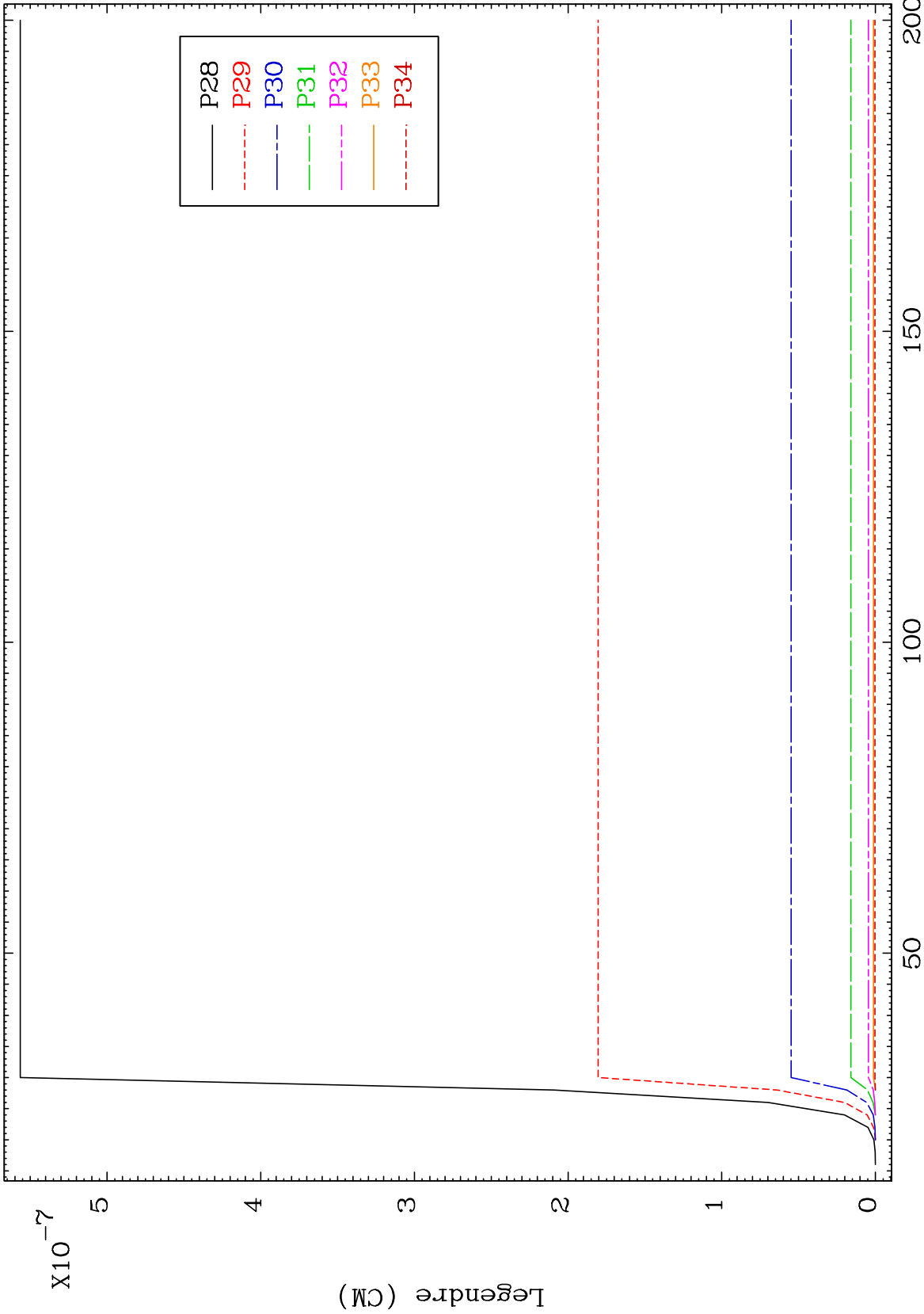
Incident Energy (MeV)

41-Nb-89

MAT 4113

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

41-Nb-89

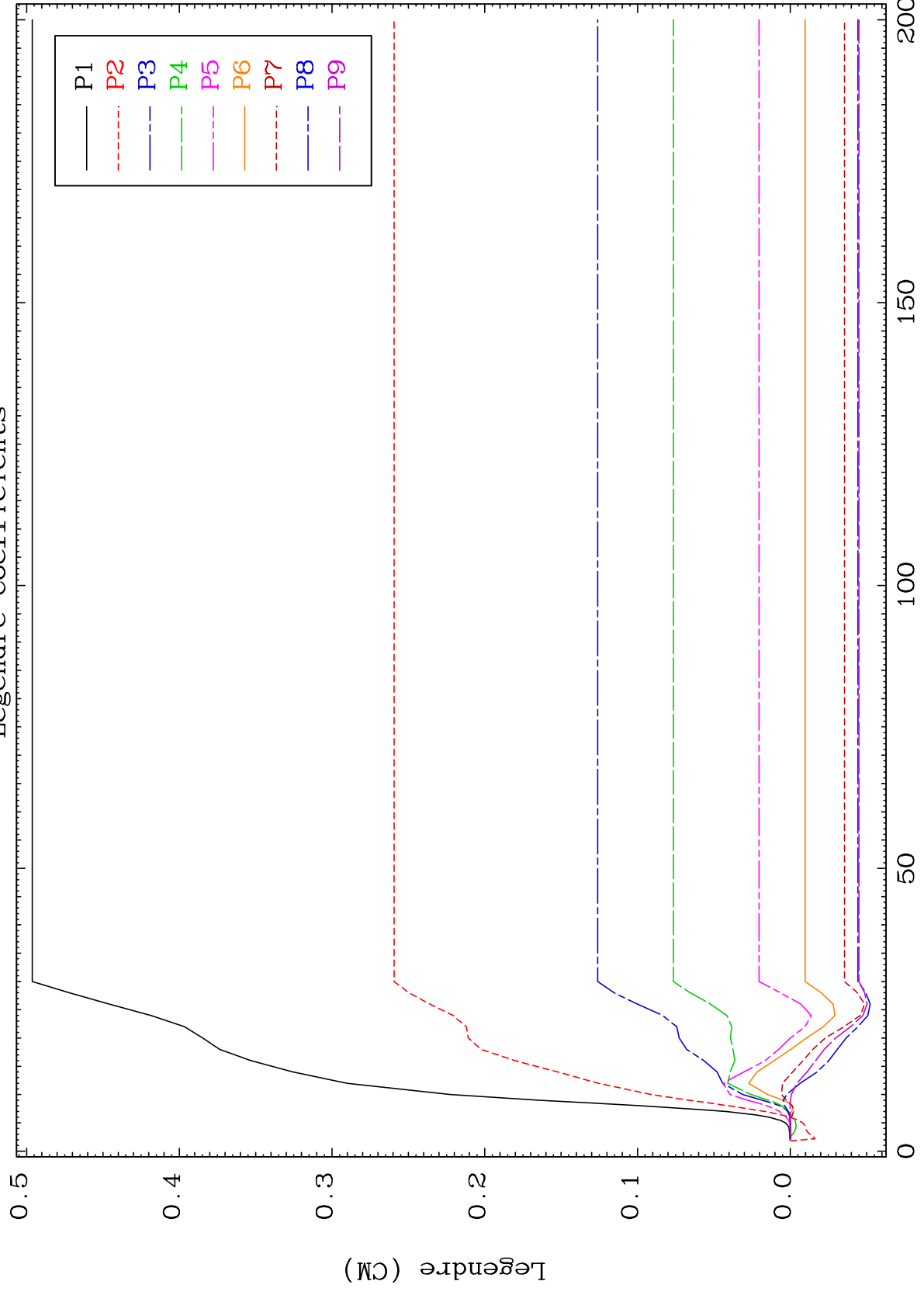


62

Incident Energy (MeV)

41-Nb-89

MAT 4113 MT= 62 (n,n') Level Legendre Coefficients 41-Nb-89



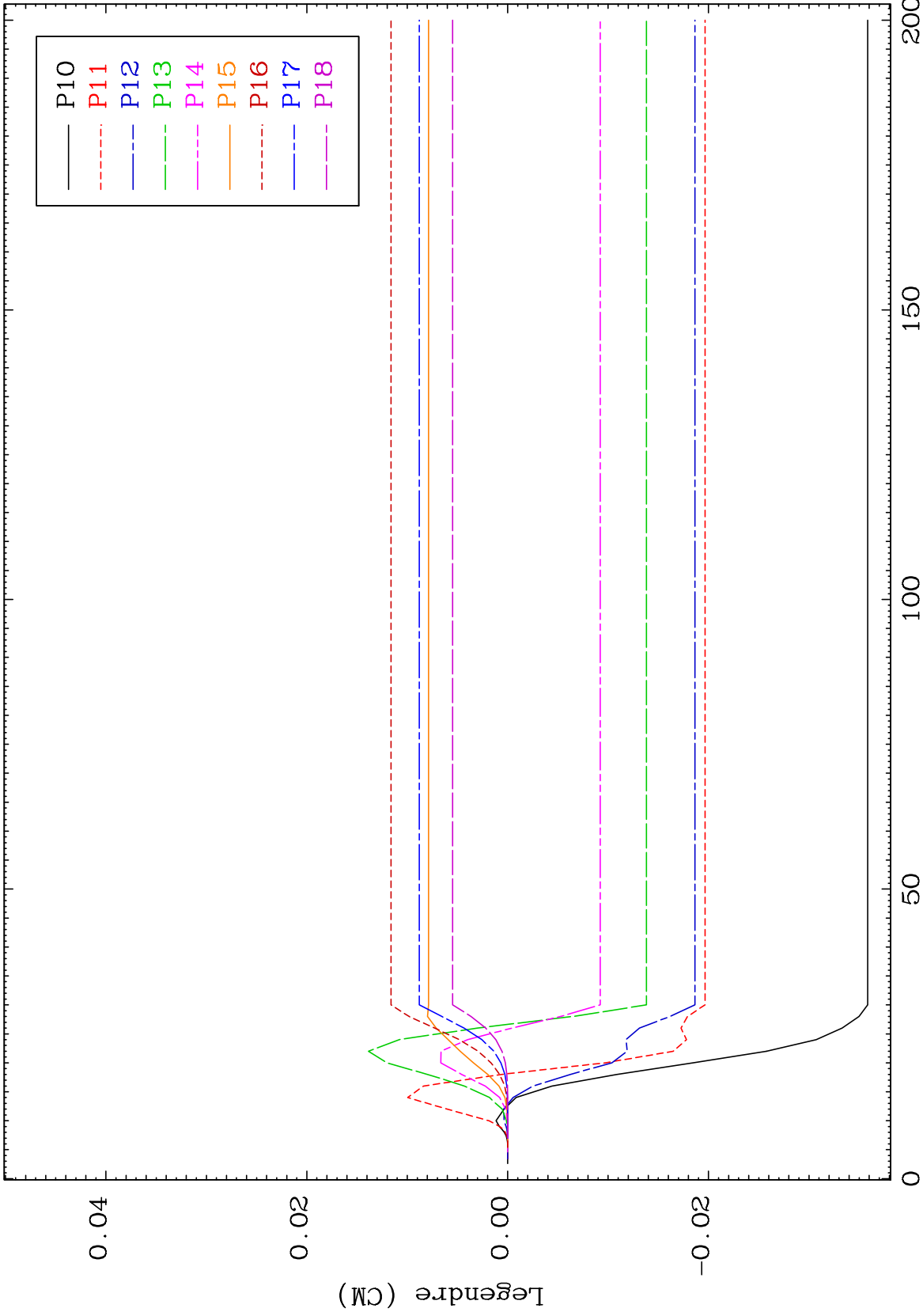
63 41-Nb-89



MAT 4113

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

41-Nb-89



64

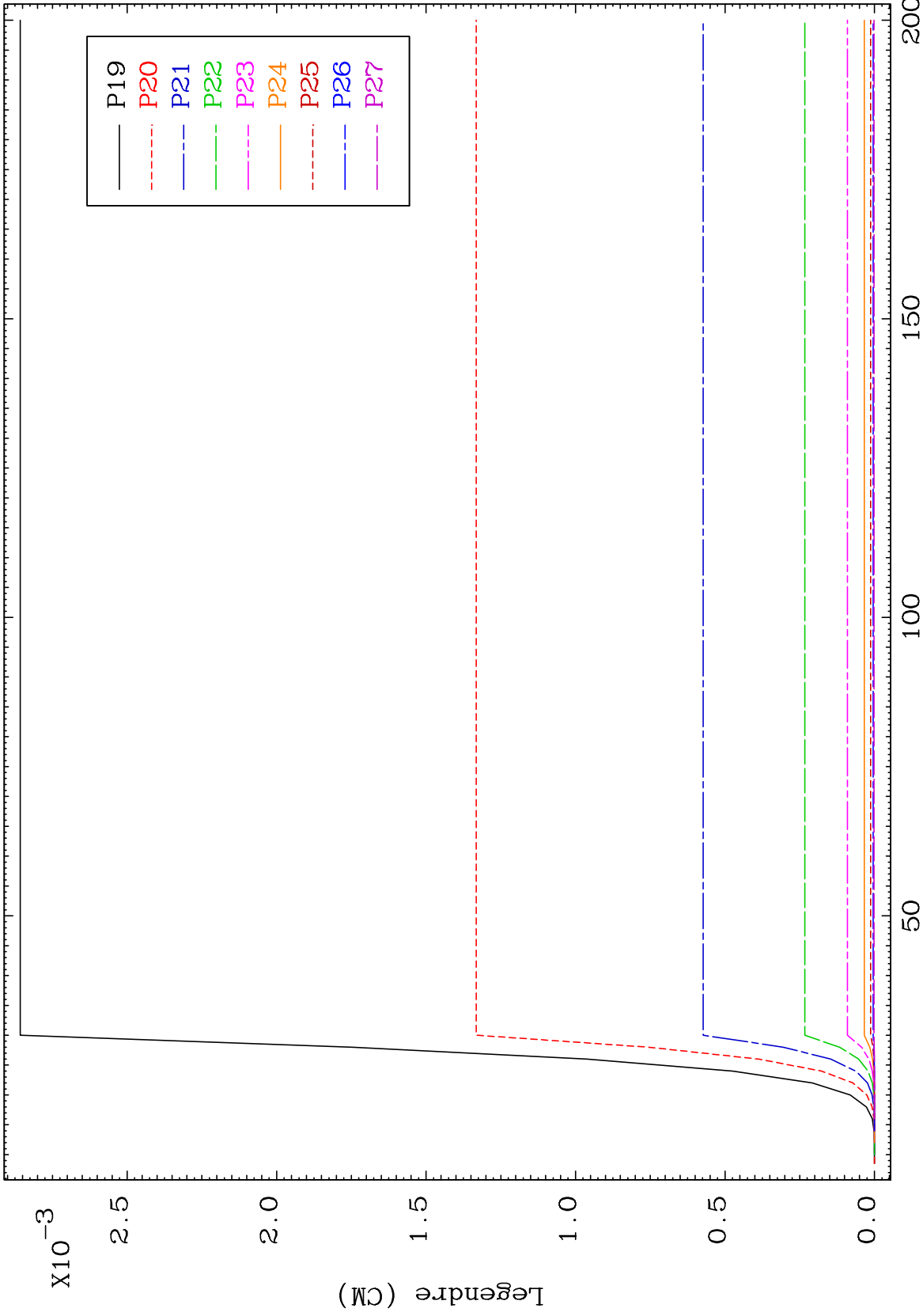
Incident Energy (MeV)

41-Nb-89

MAT 4113

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

41-Nb-89



65

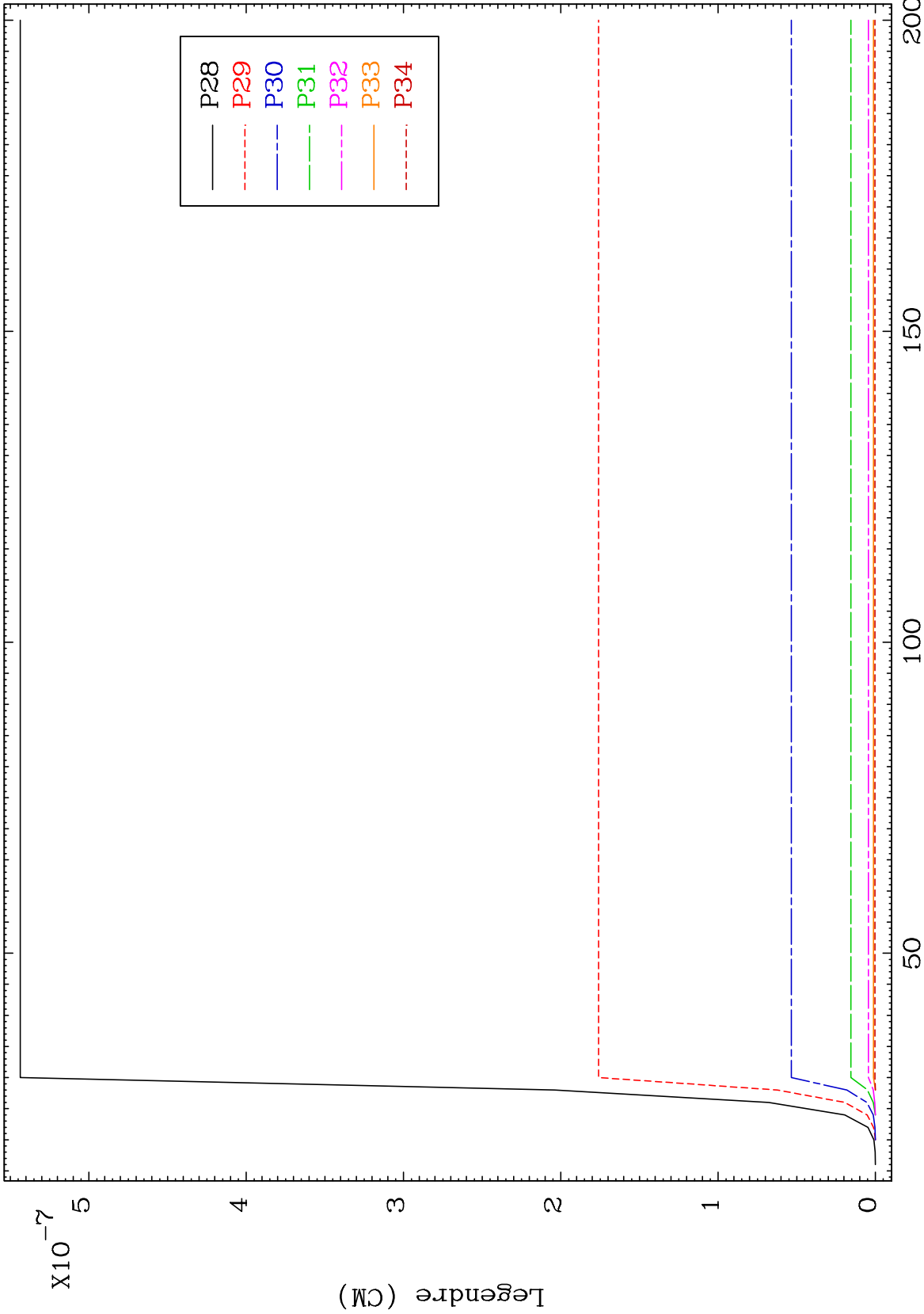
Incident Energy (MeV)

41-Nb-89

MAT 4113

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

41-Nb-89



66

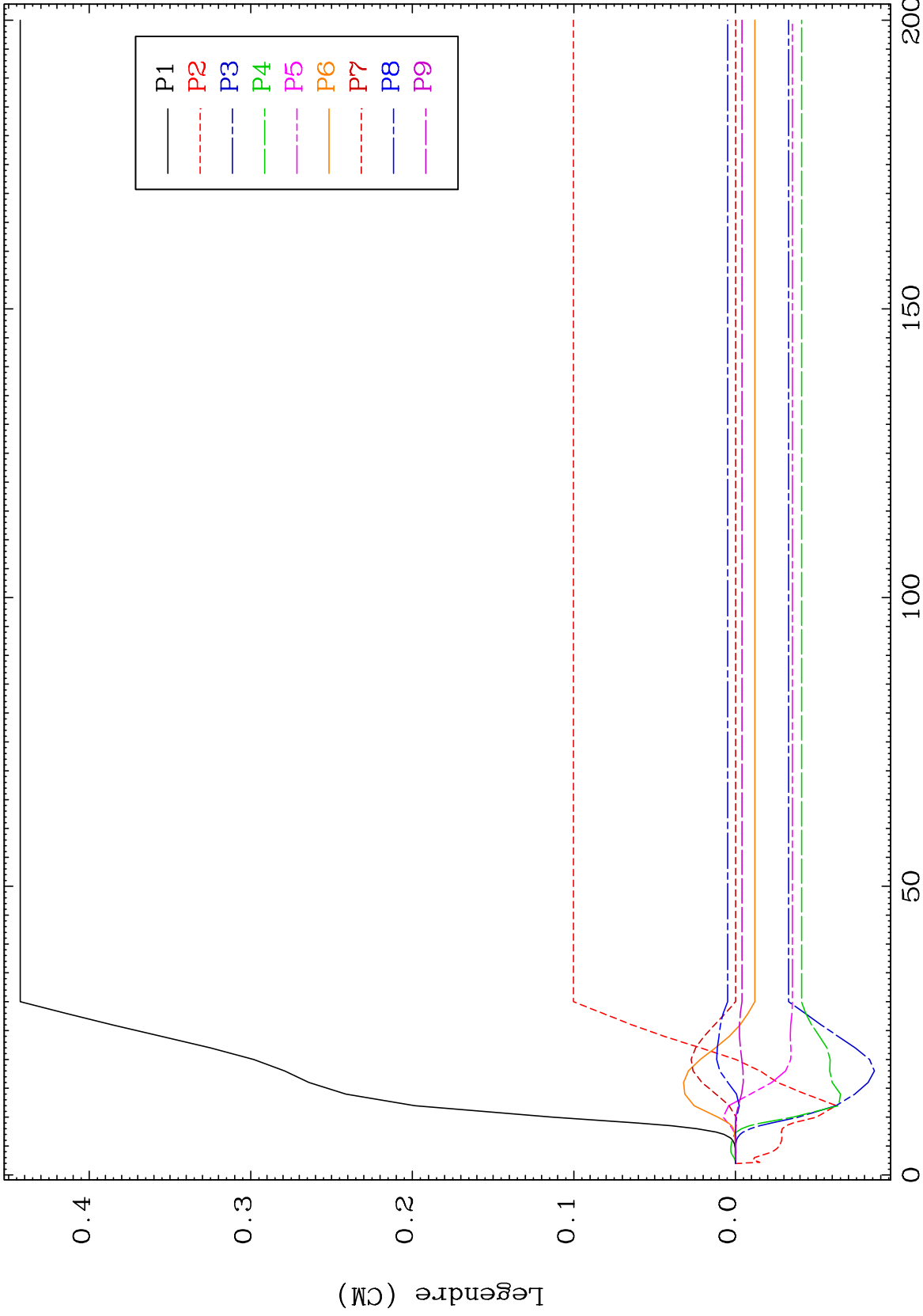
Incident Energy (MeV)

41-Nb-89

MAT 4113

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

41-Nb-89



67

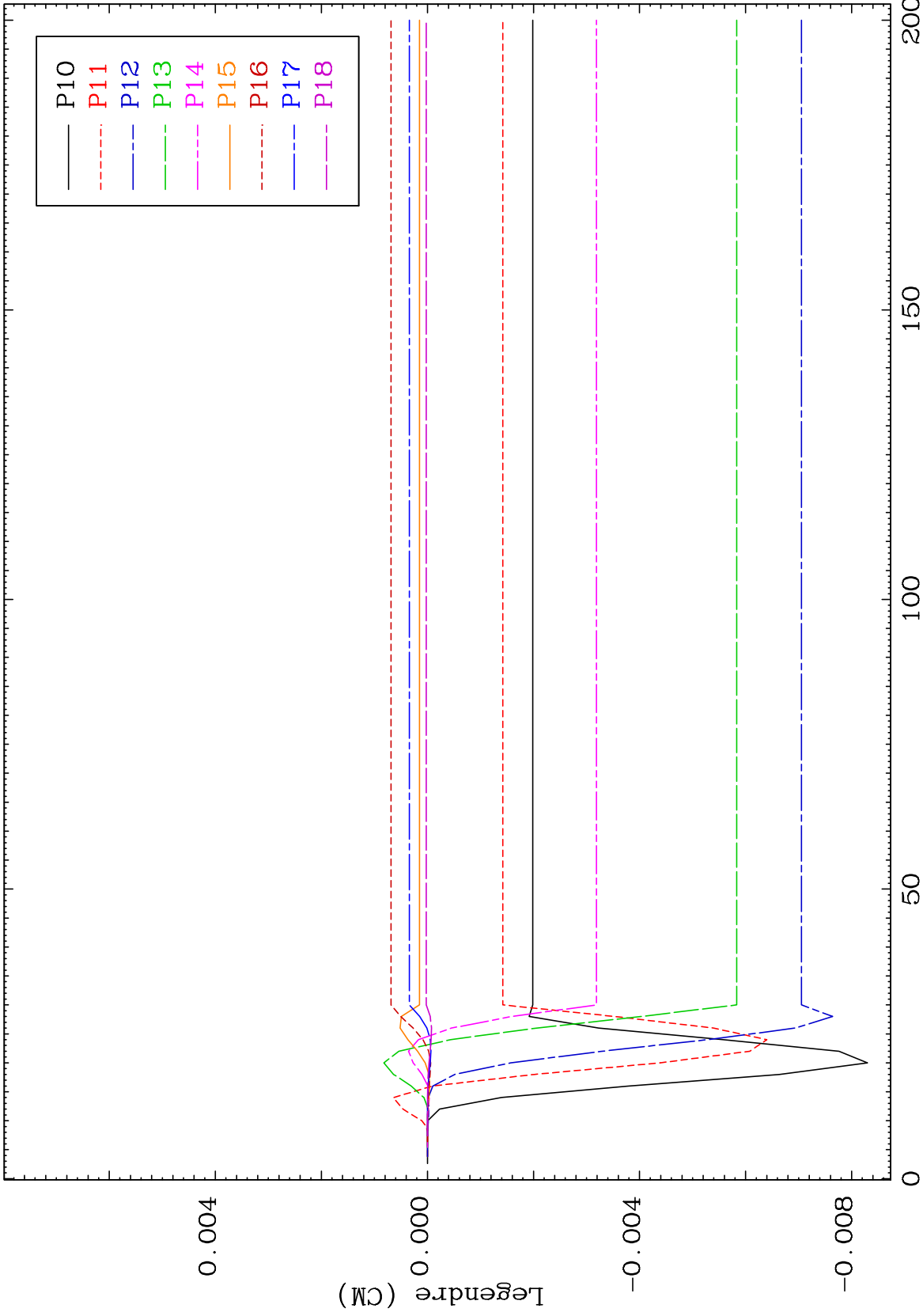
Incident Energy (MeV)

41-Nb-89

MAT 4113

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

41-Nb-89



68

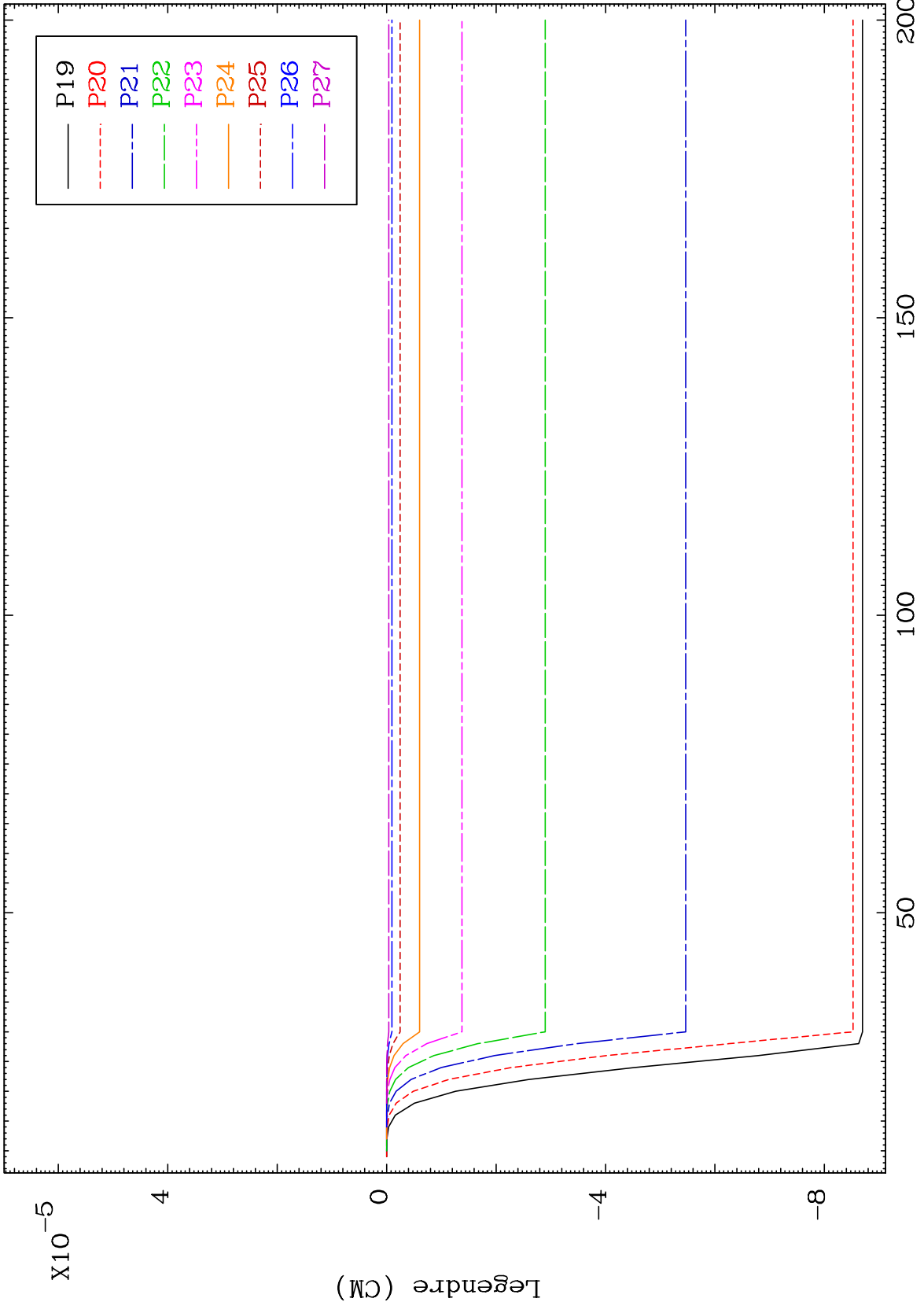
Incident Energy (MeV)

41-Nb-89

MAT 4113

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

41-Nb-89



69

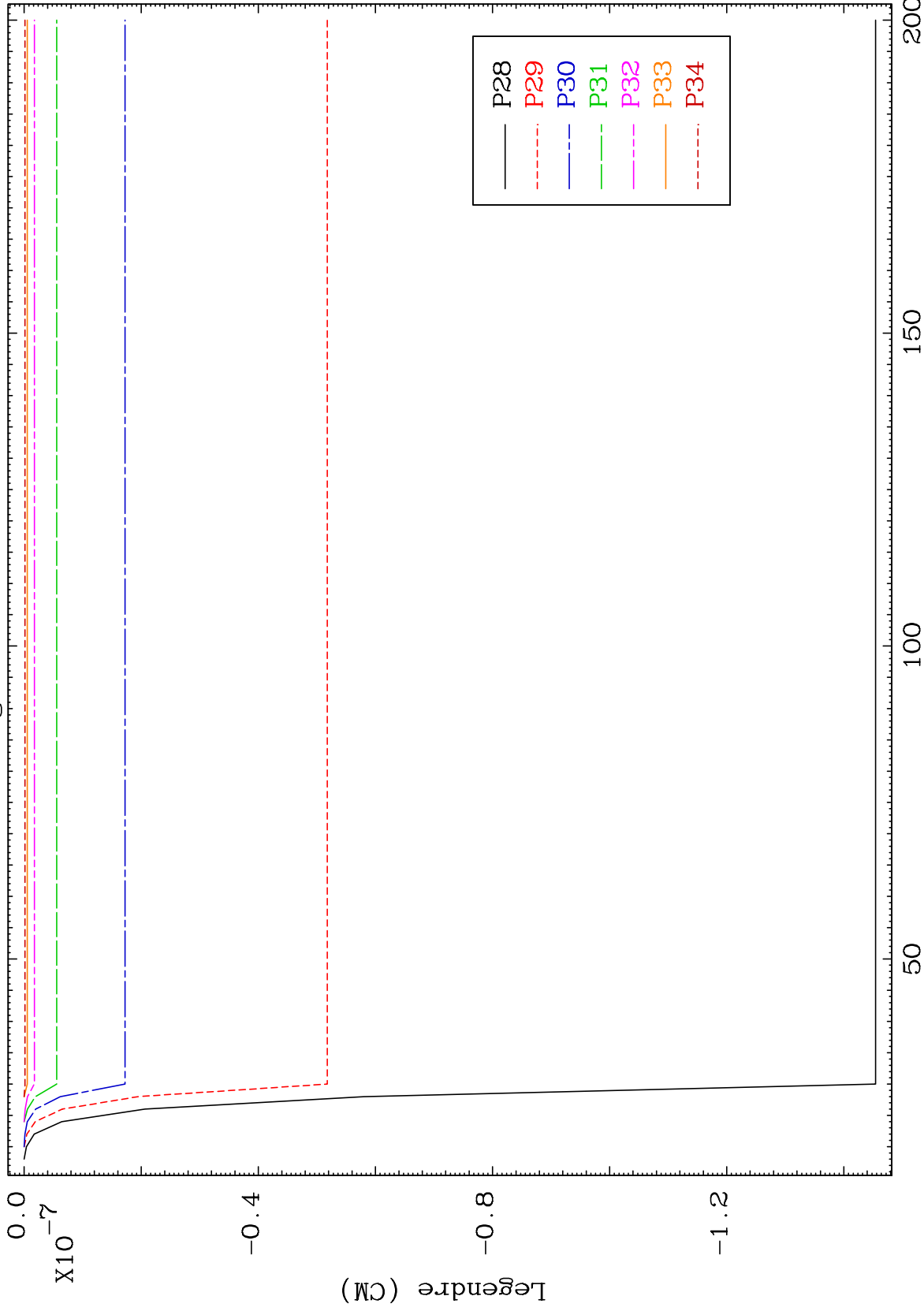
Incident Energy (MeV)

41-Nb-89

MAT 4113

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

41-Nb-89



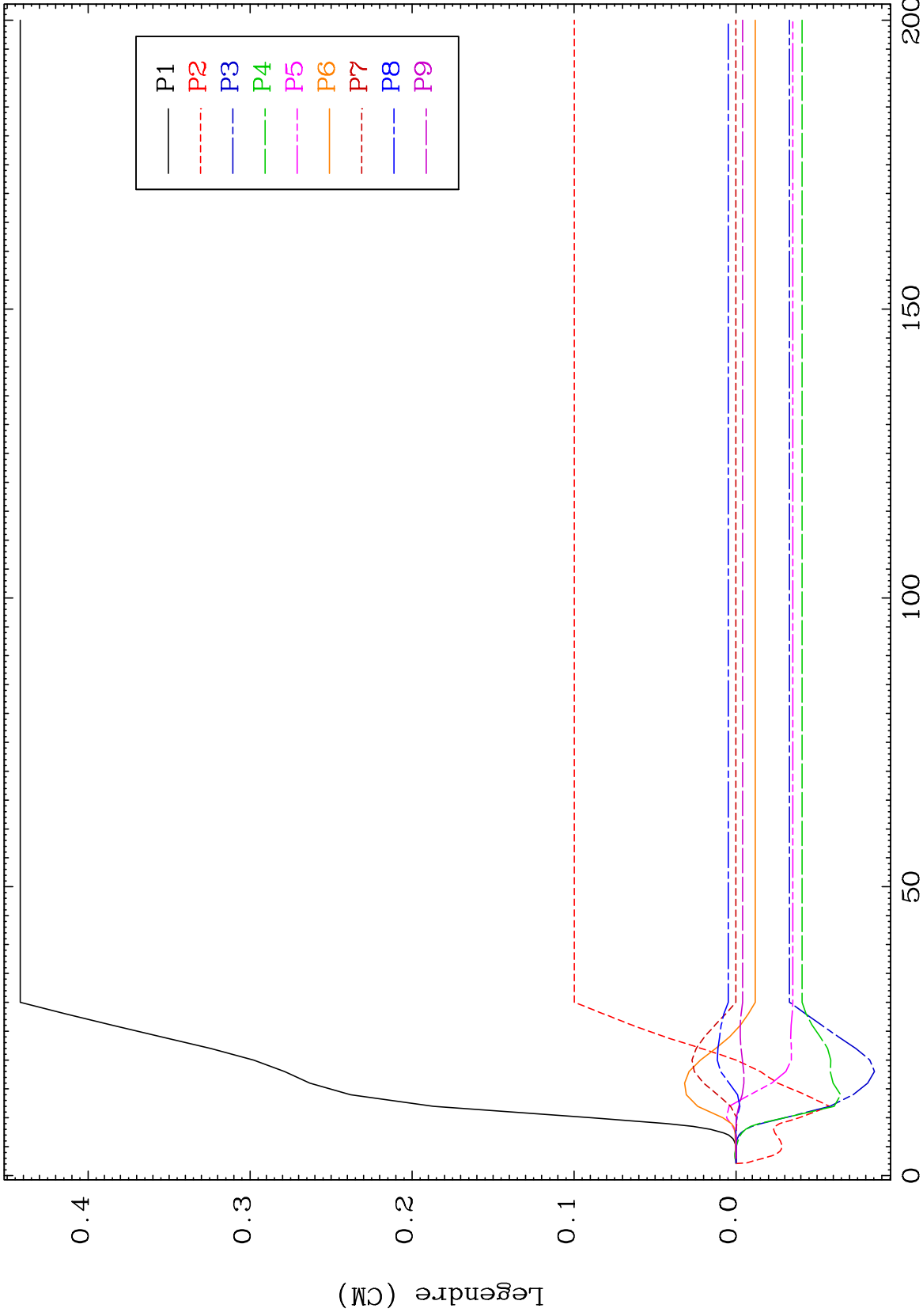
41-Nb-89

70

MAT 4113

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

41-Nb-89



71

Incident Energy (MeV)

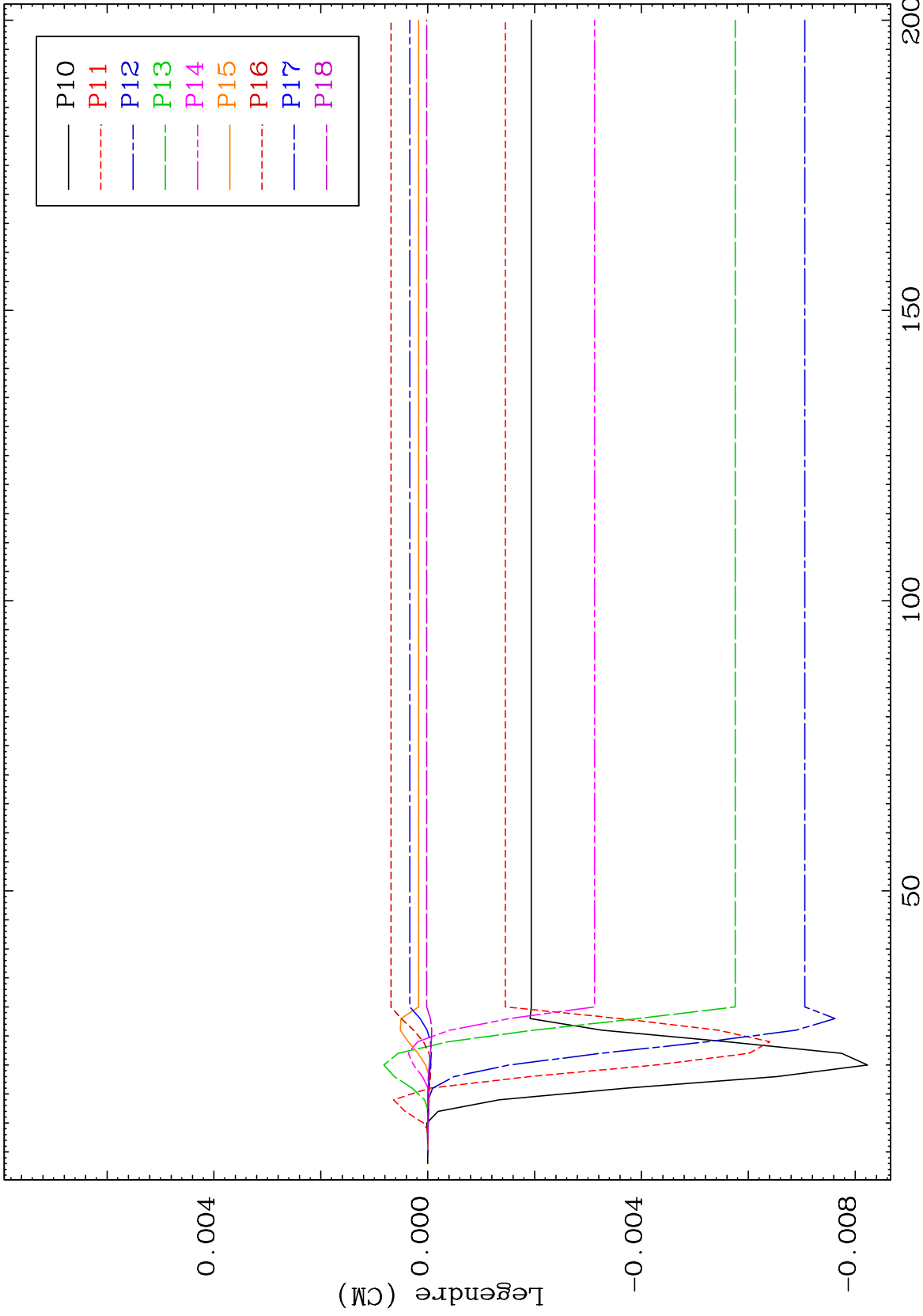
41-Nb-89



MAT 4113

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

41-Nb-89



72

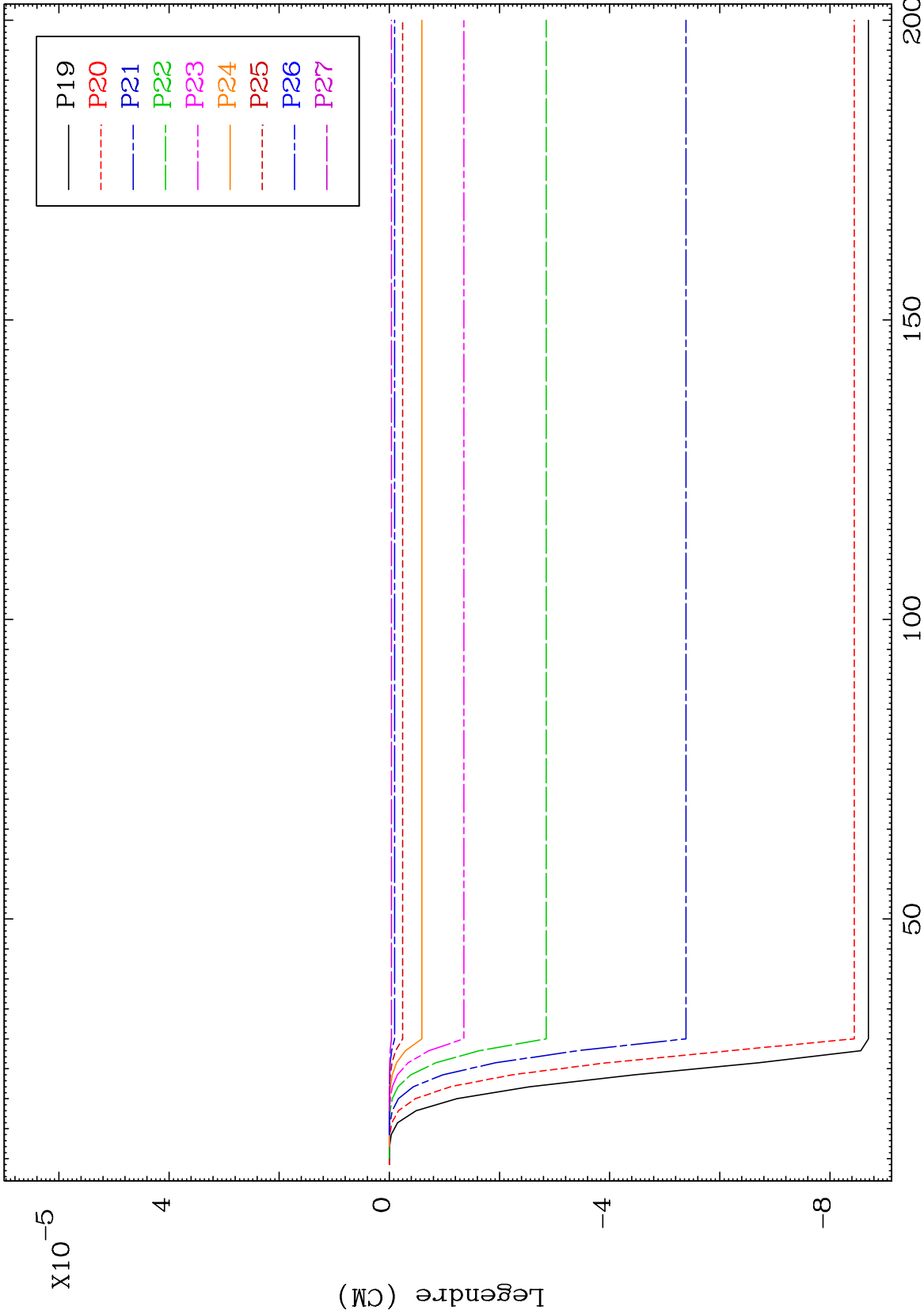
Incident Energy (MeV)

41-Nb-89

MAT 4113

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

41-Nb-89



73

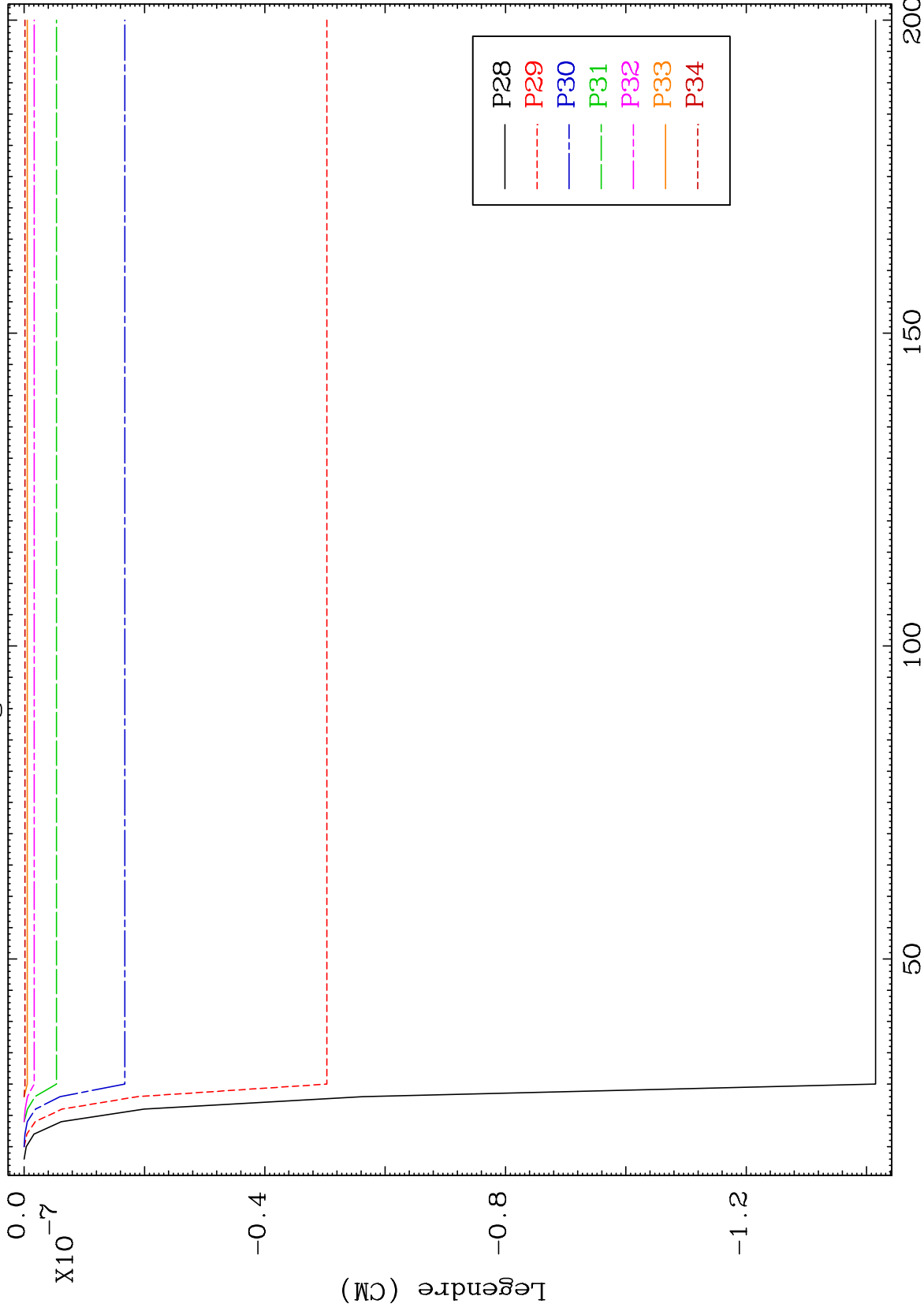
Incident Energy (MeV)

41-Nb-89

MAT 4113

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

41-Nb-89



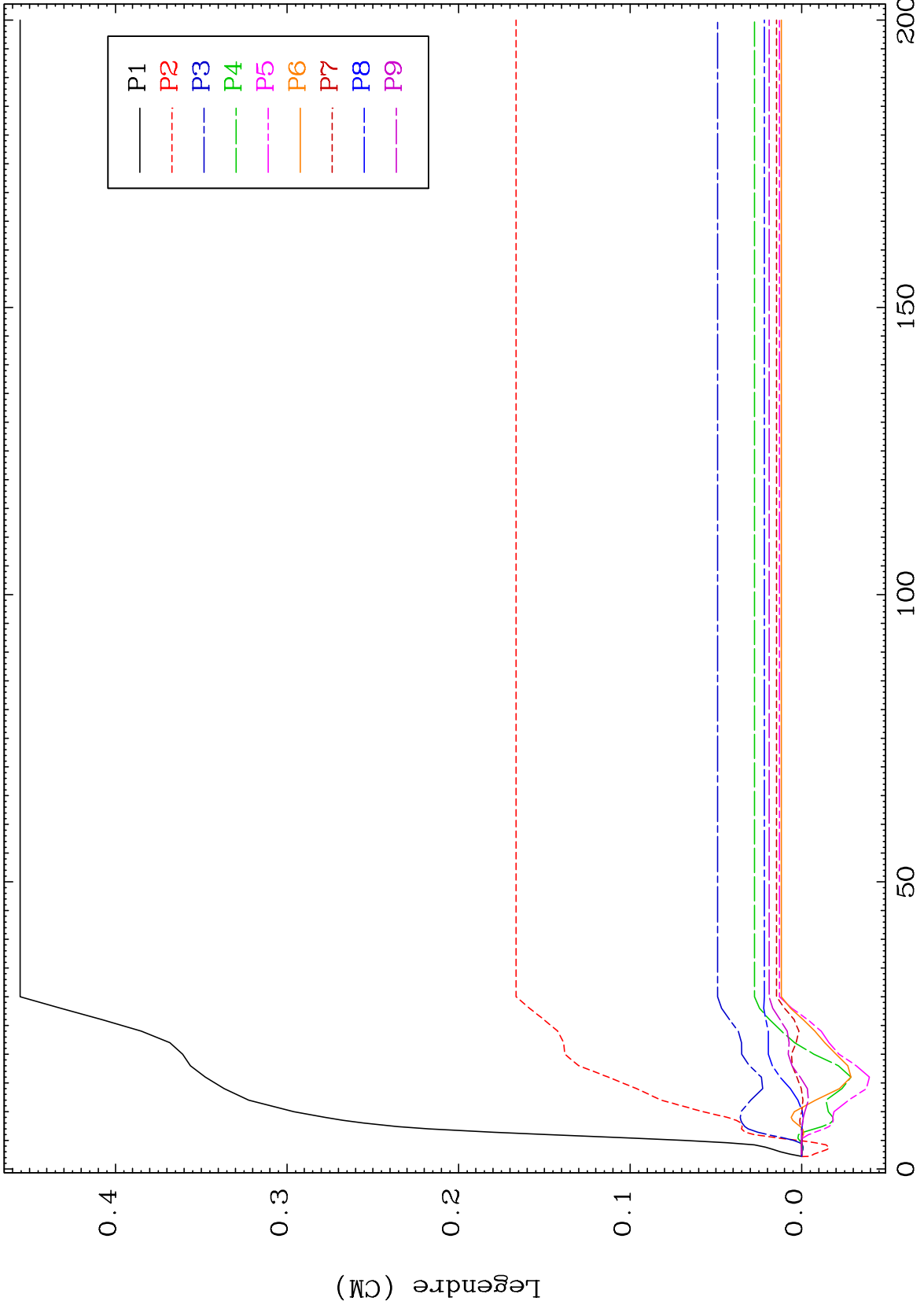
74

41-Nb-89

MAT 4113

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

41-Nb-89

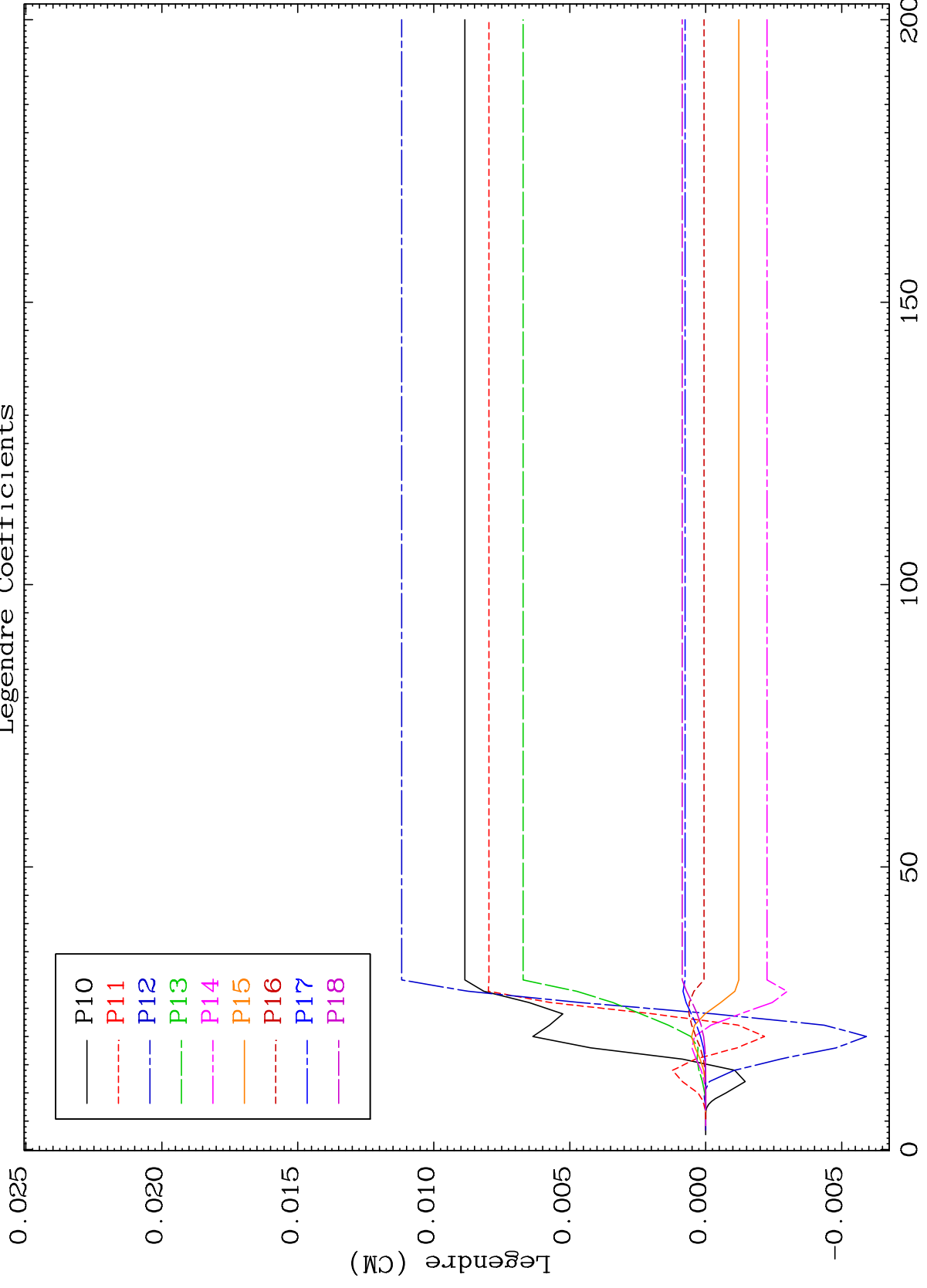


75

Incident Energy (MeV)

41-Nb-89

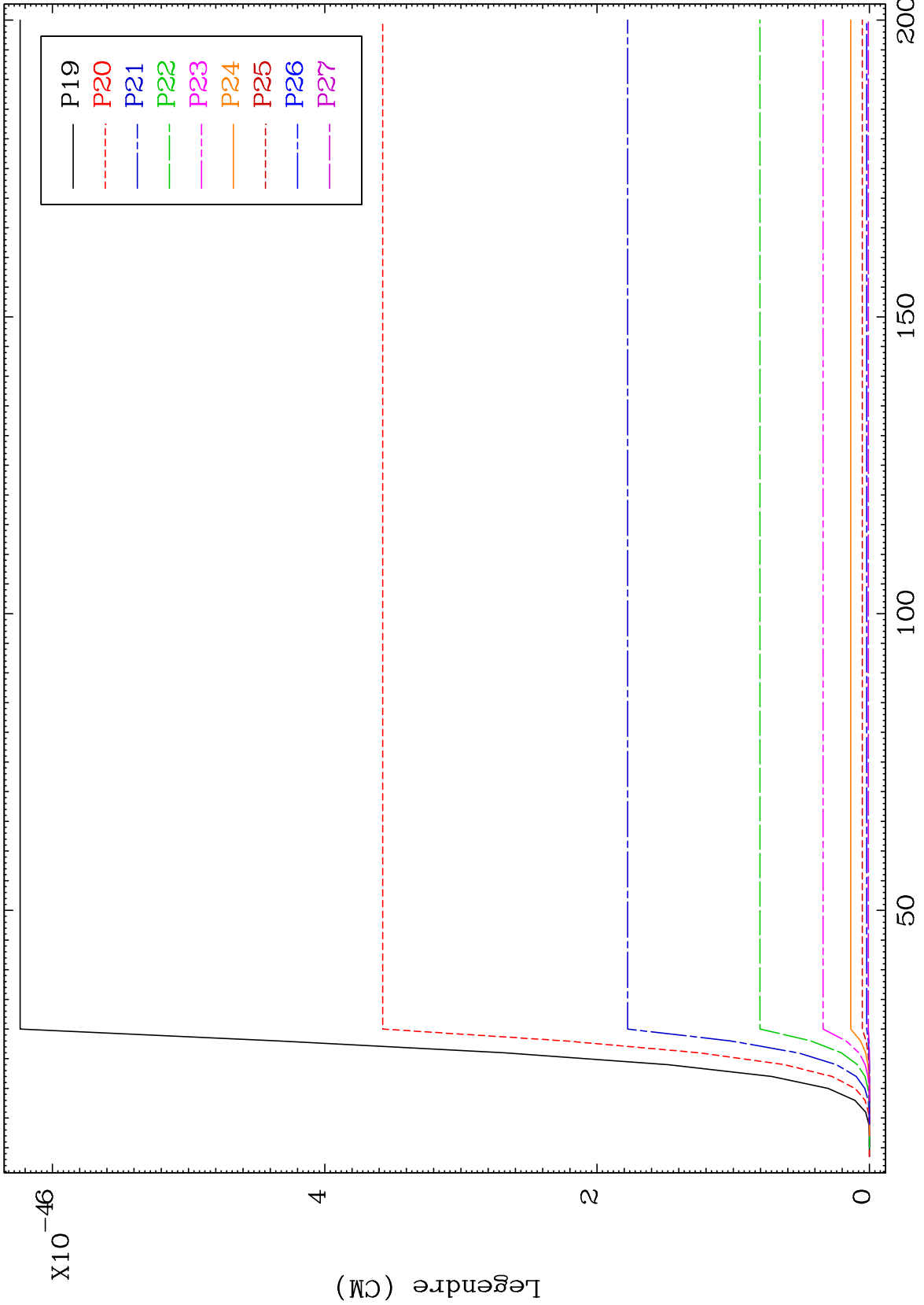
MAT 4113 MT= 65 (n,n') Level Legendre Coefficients 41-Nb-89



MAT 4113

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

41-Nb-89



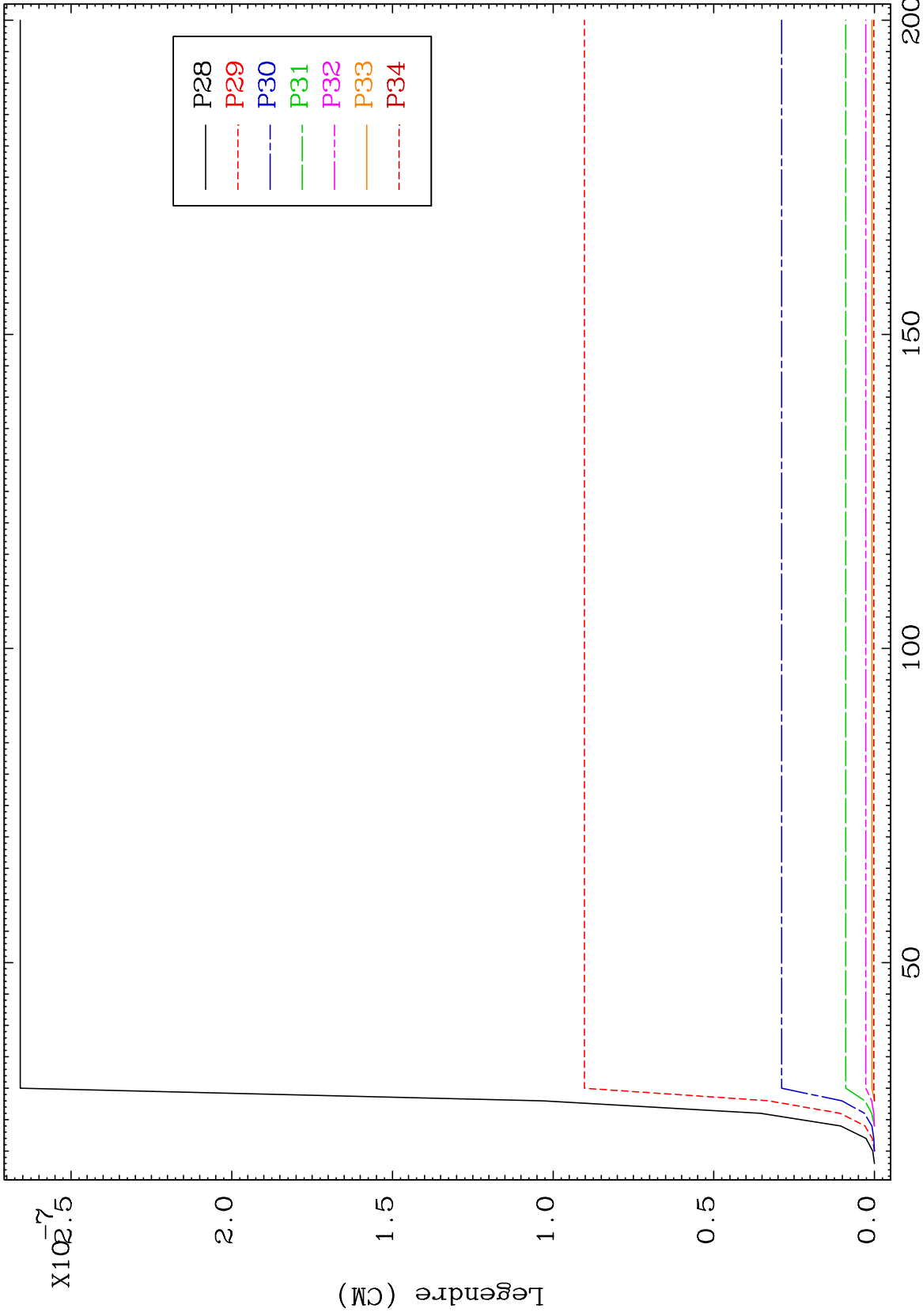
77

41-Nb-89

MAT 4113

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

41-Nb-89



78

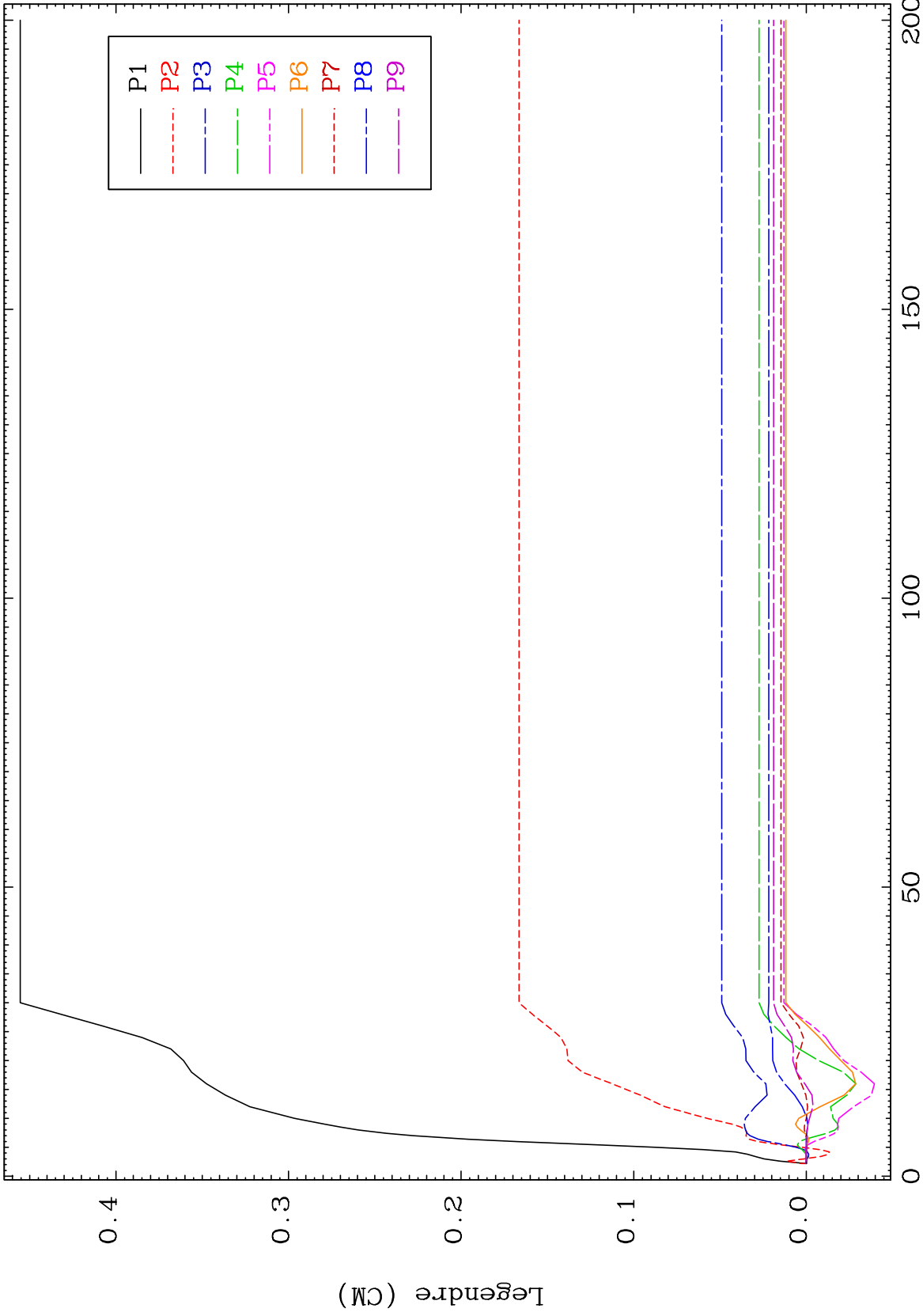
Incident Energy (MeV)

41-Nb-89

MAT 4113

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

41-Nb-89



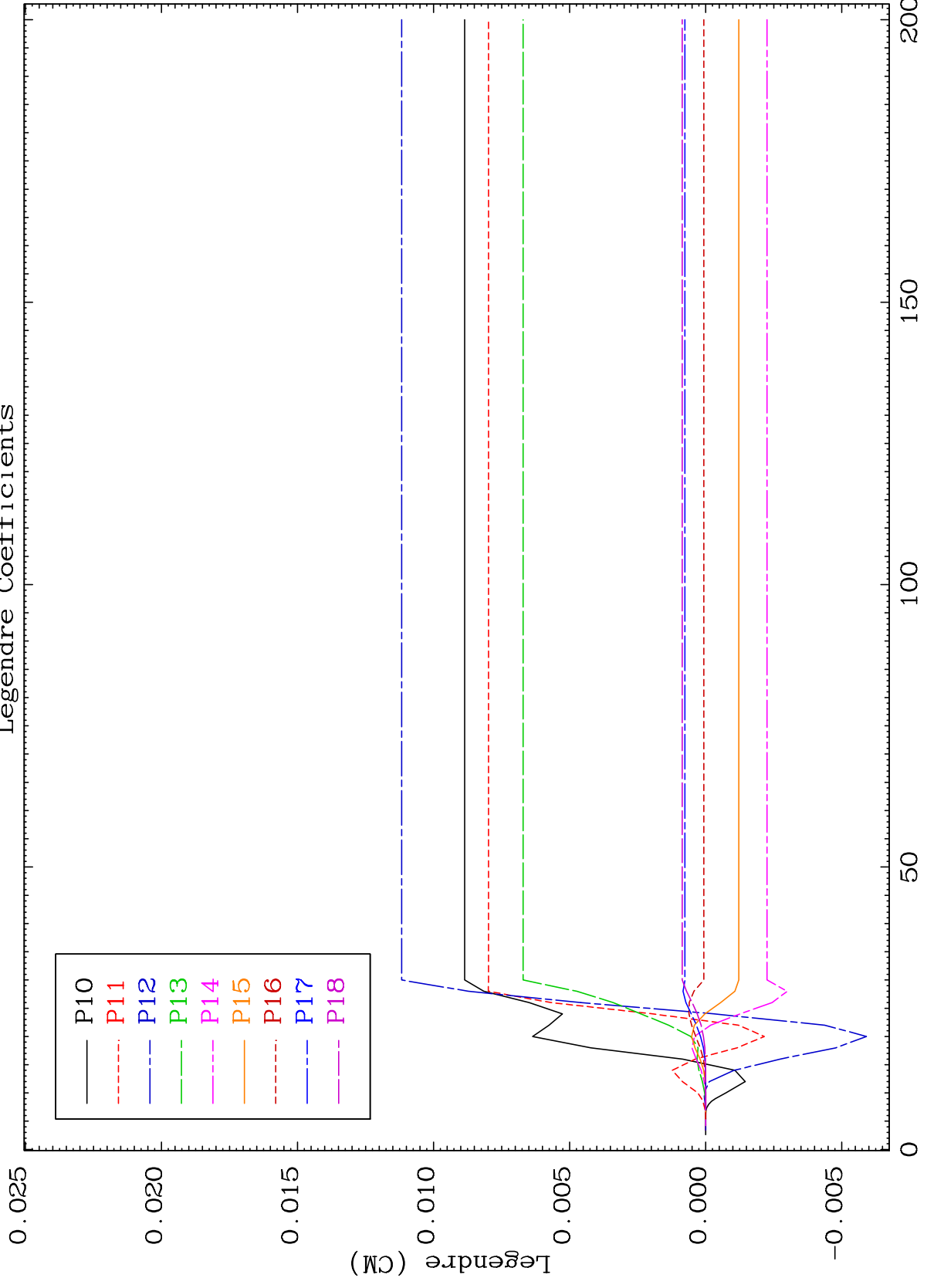
79

Incident Energy (MeV)

41-Nb-89



MAT 4113 MT= 66 (n,n') Level Legendre Coefficients 41-Nb-89

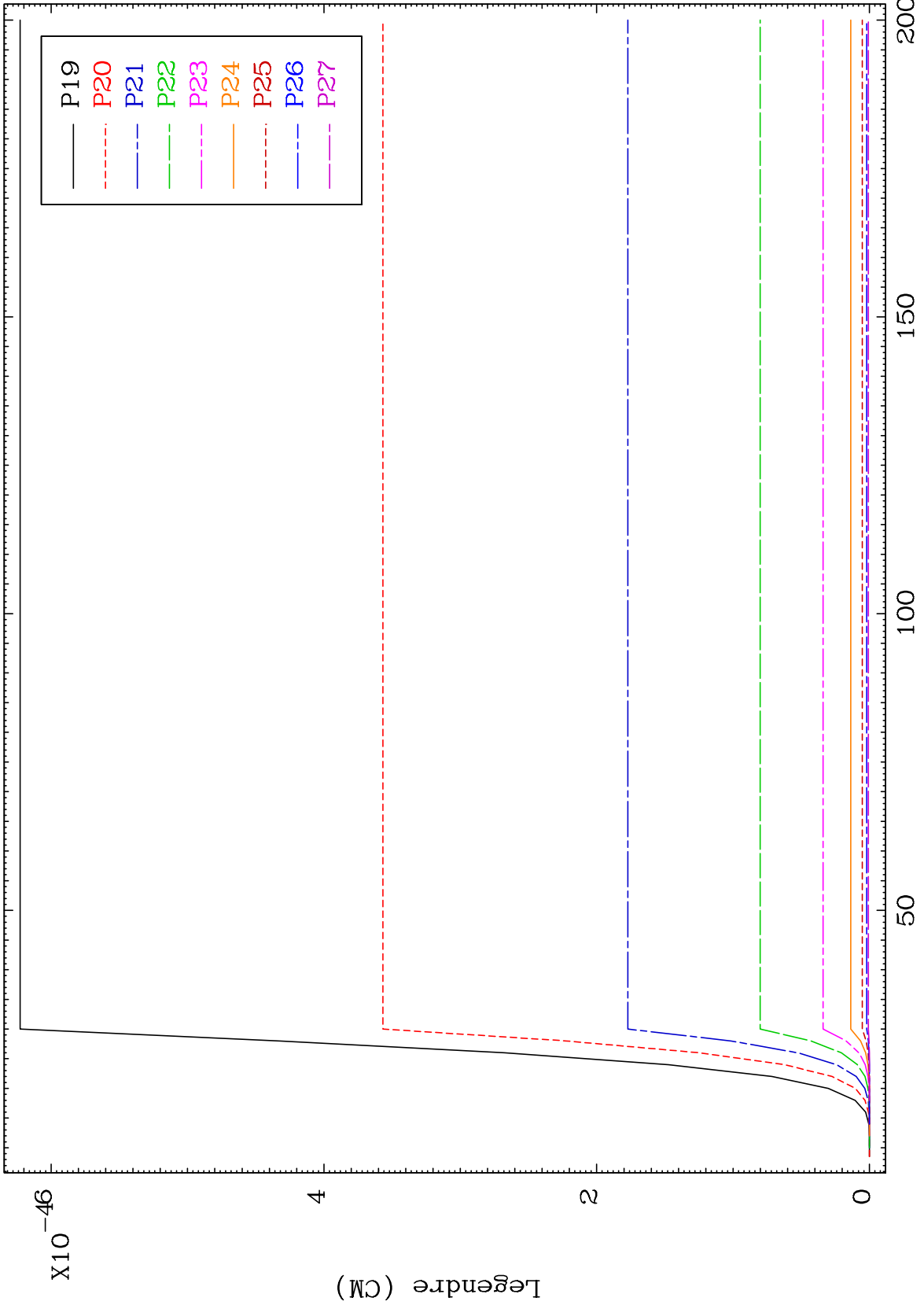


80 150 200 41-Nb-89

MAT 4113

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

41-Nb-89



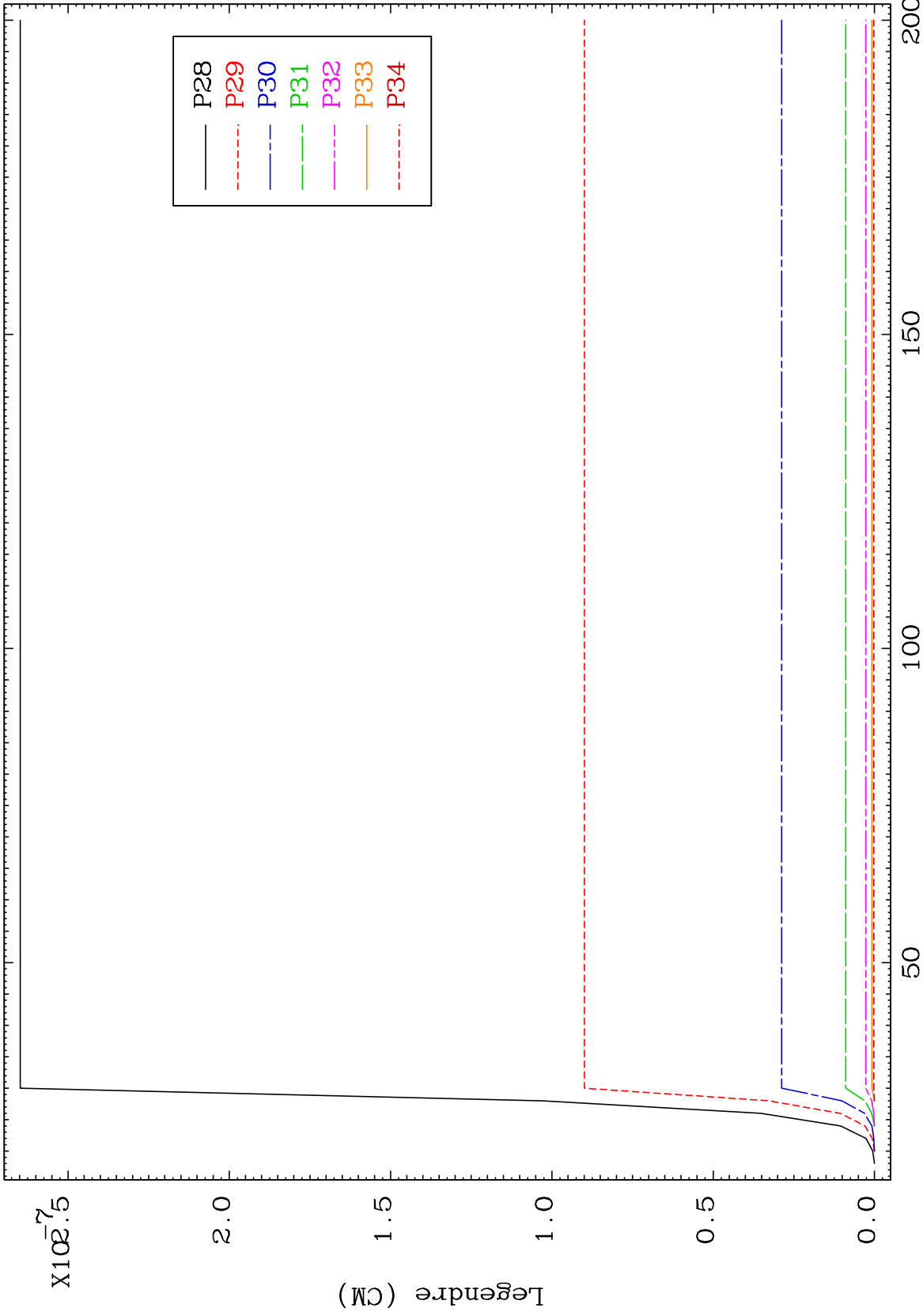
81

41-Nb-89

MAT 4113

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

41-Nb-89



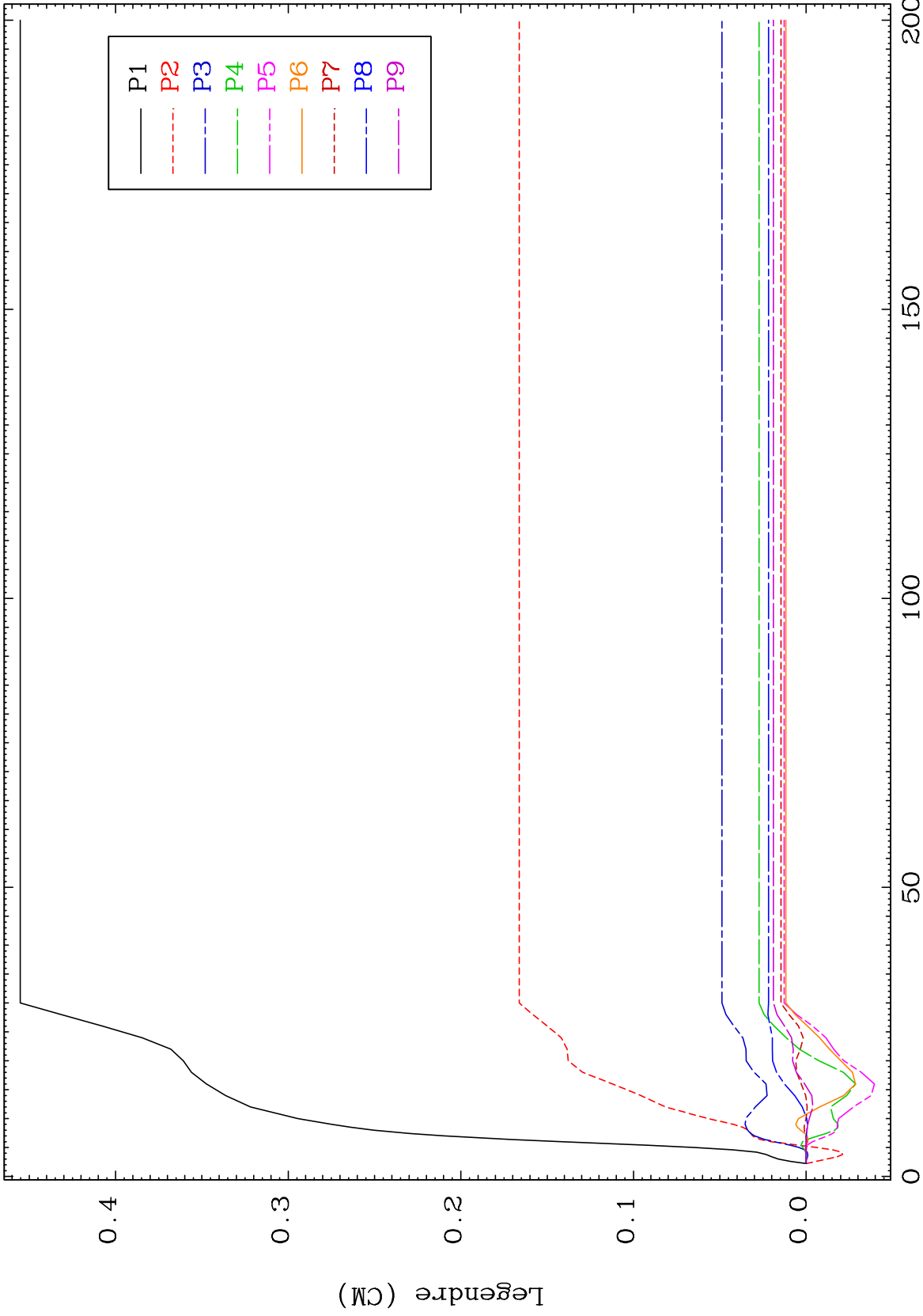
82

41-Nb-89

MAT 4113

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

41-Nb-89



83

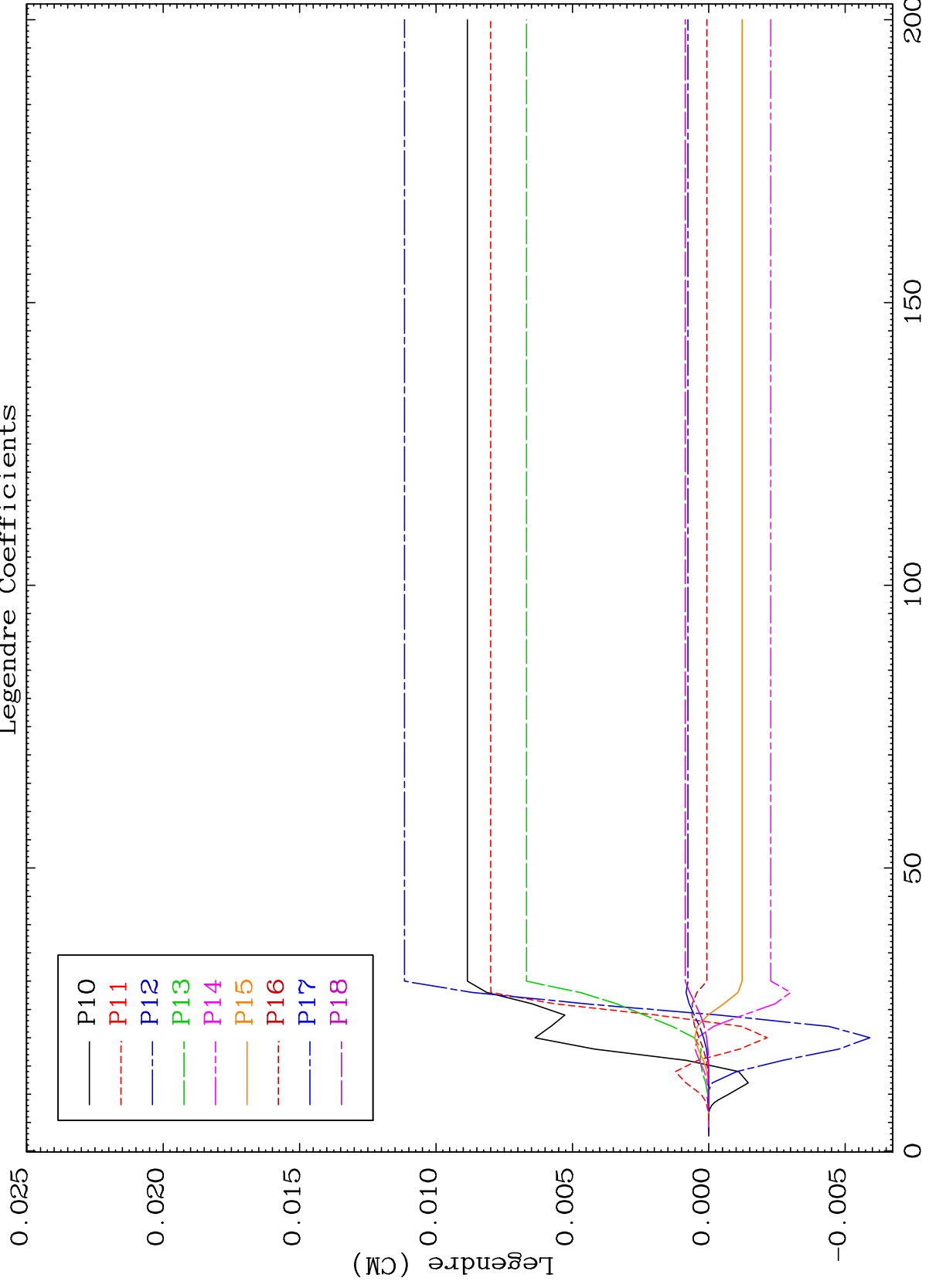
Incident Energy (MeV)

41-Nb-89

MAT 4113

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

41-Nb-89



84

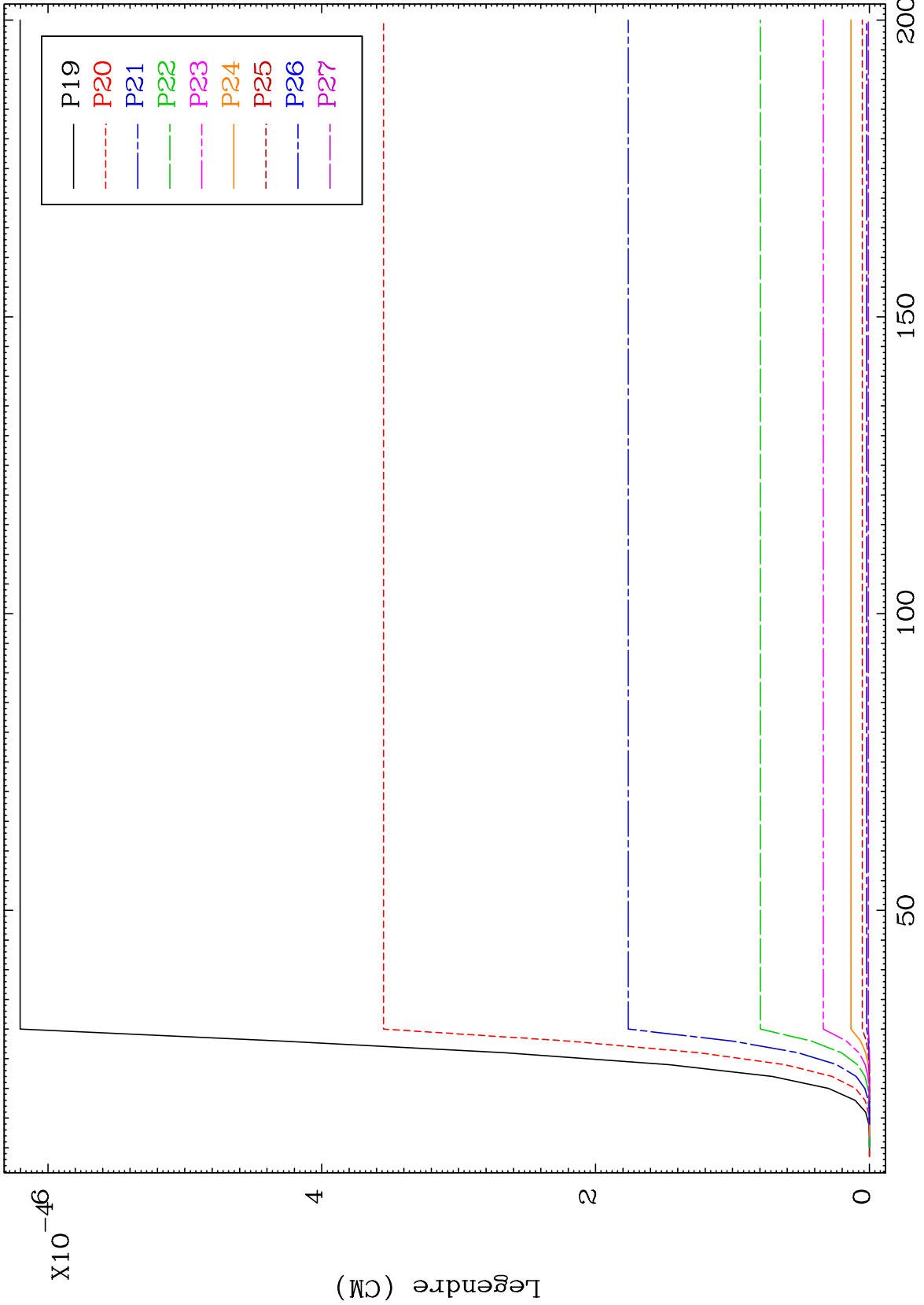
Incident Energy (MeV)

41-Nb-89

MAT 4113

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

41-Nb-89



85

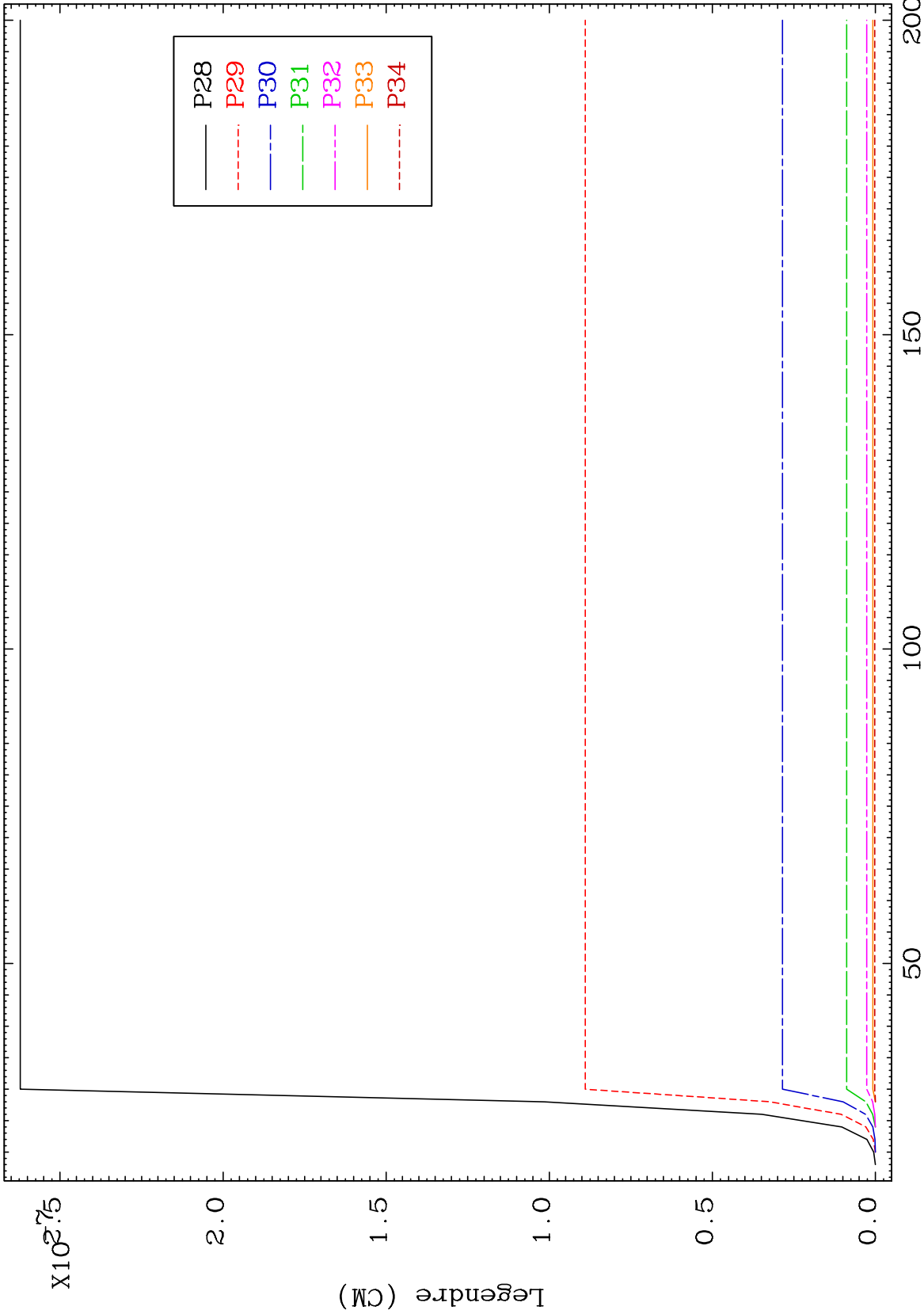
Incident Energy (MeV)

41-Nb-89

MAT 4113

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

41-Nb-89



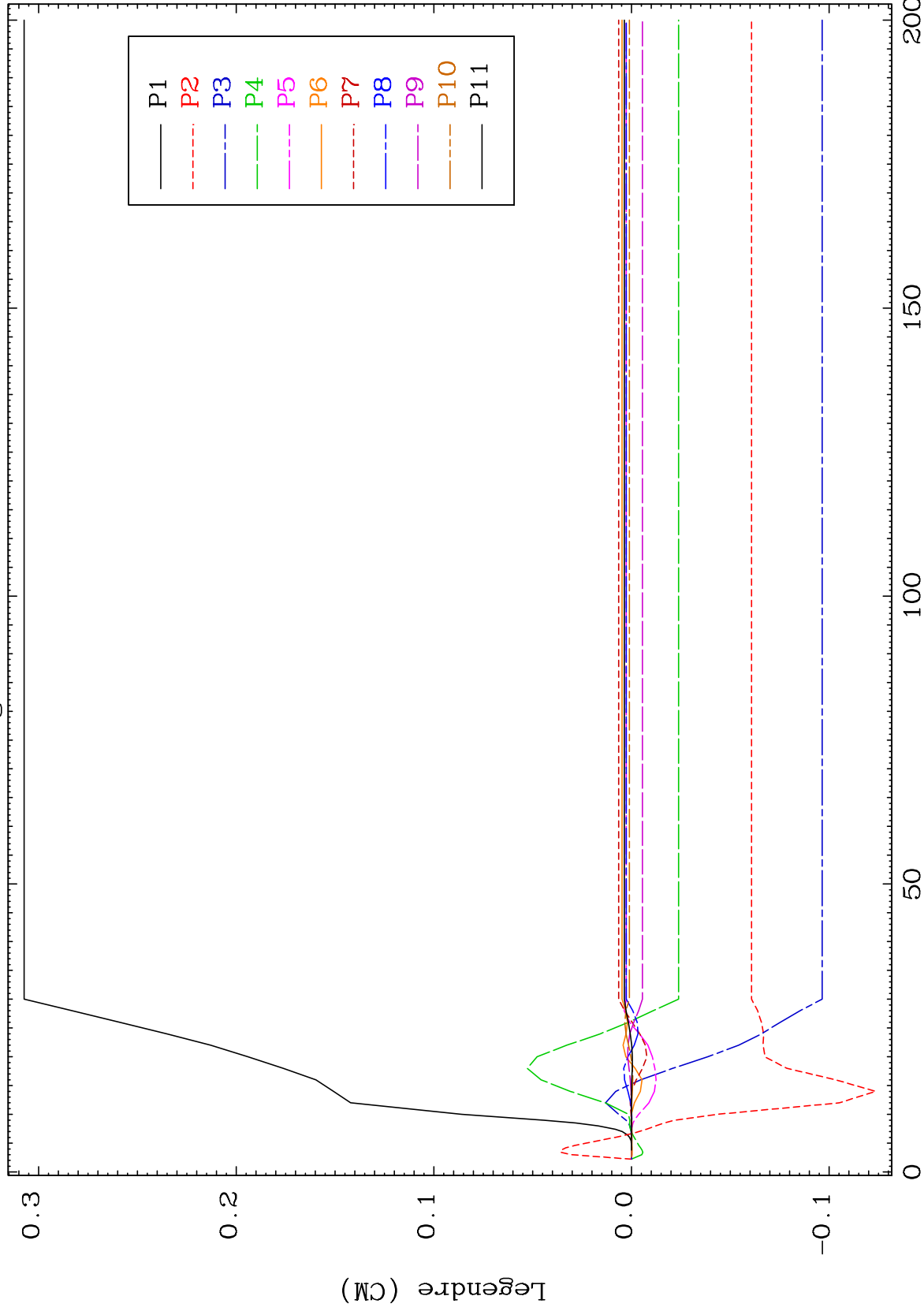
86

41-Nb-89

MAT 4113

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

41-Nb-89



87

Incident Energy (MeV)

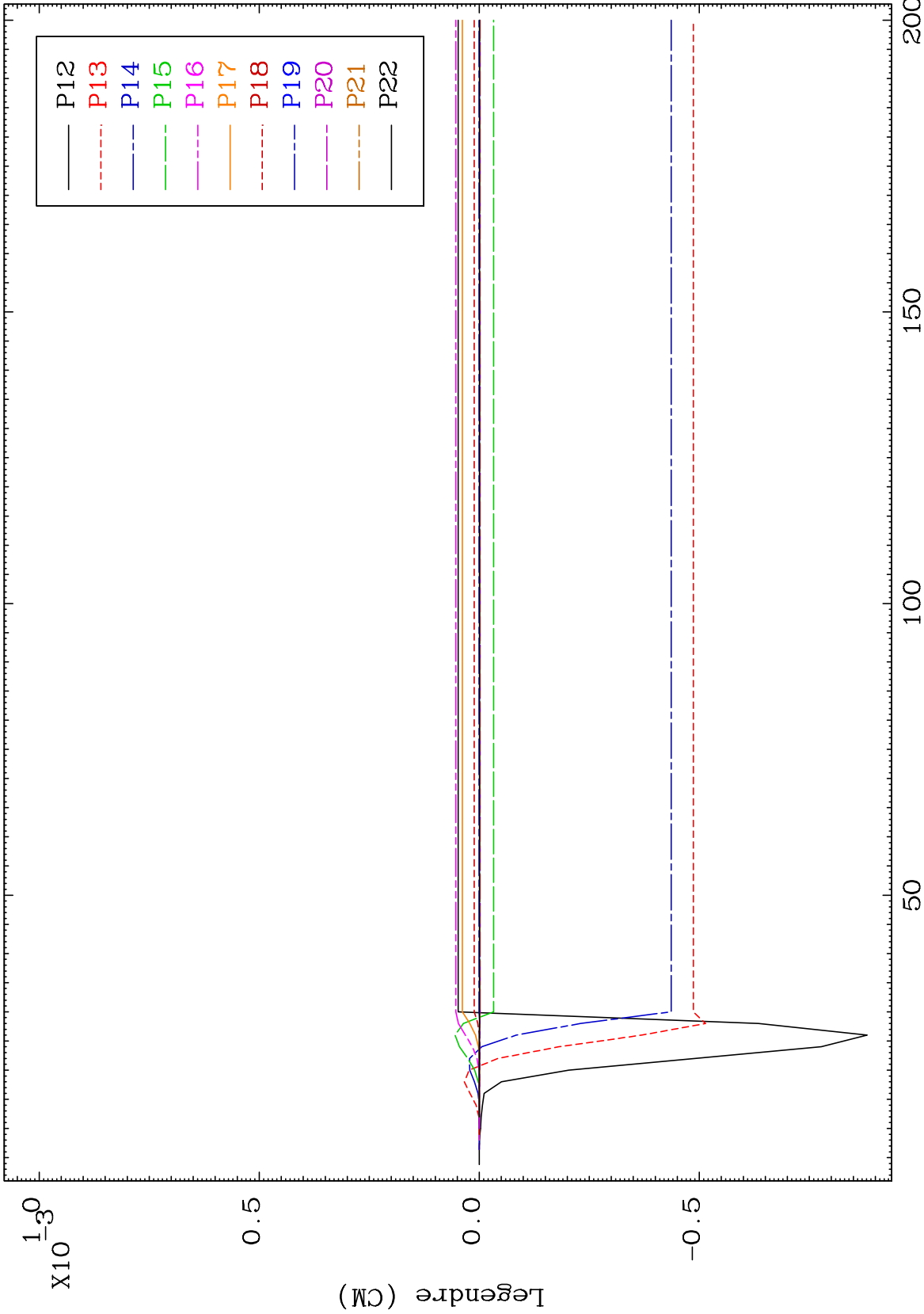
41-Nb-89



MAT 4113

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

41-Nb-89



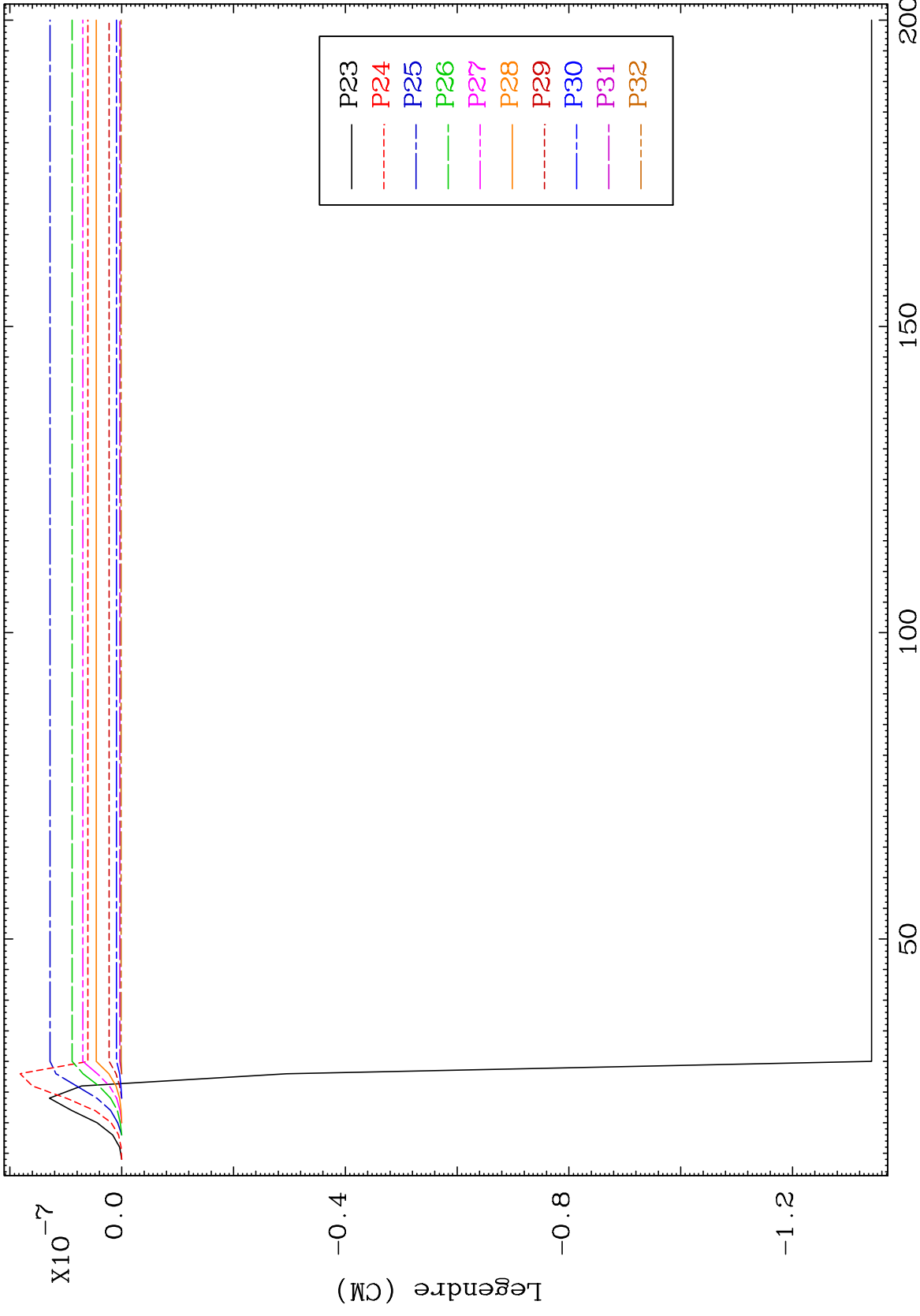
88

41-Nb-89

MAT 4113

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

41-Nb-89



89

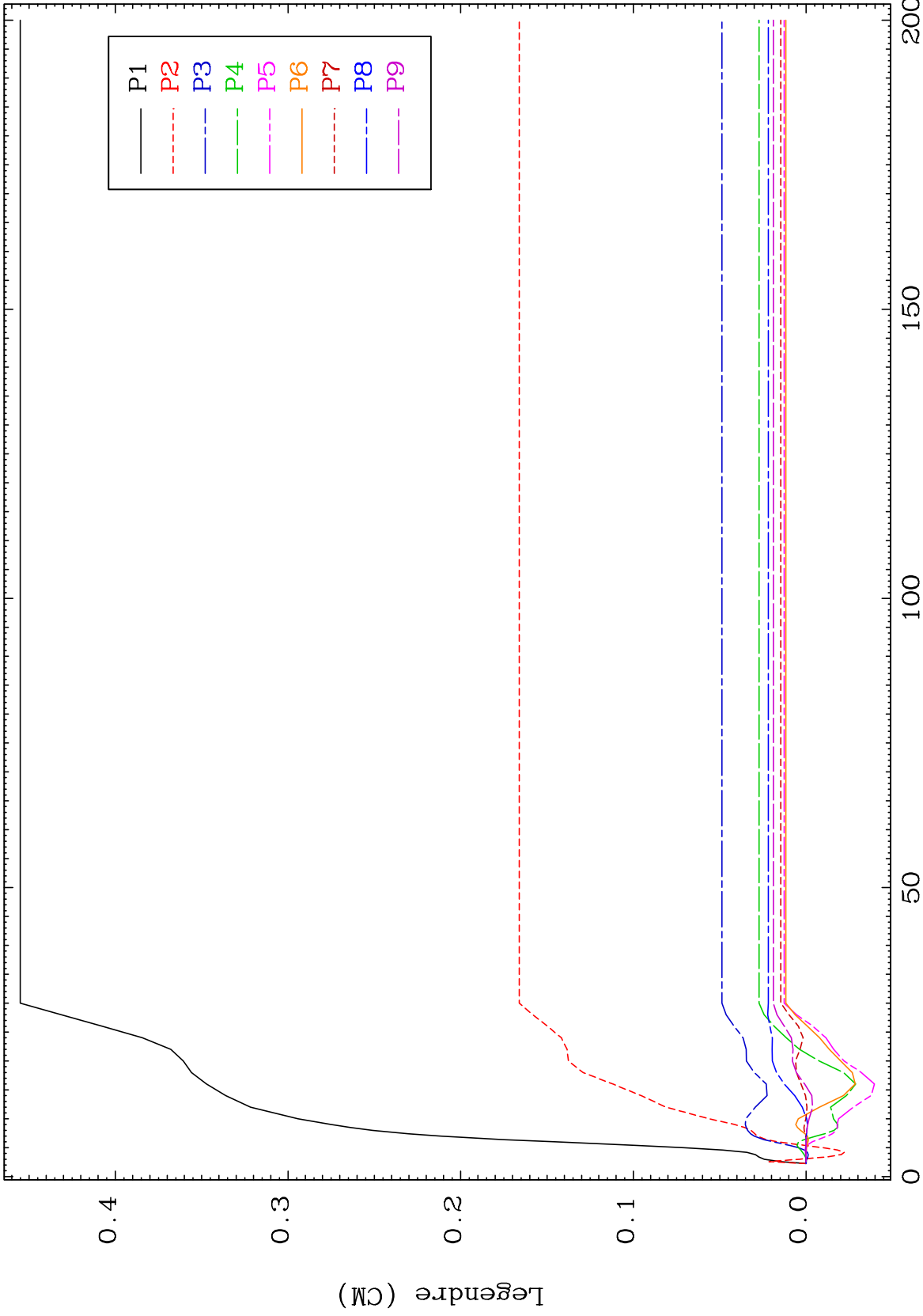
Incident Energy (MeV)

41-Nb-89

MAT 4113

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

41-Nb-89



90

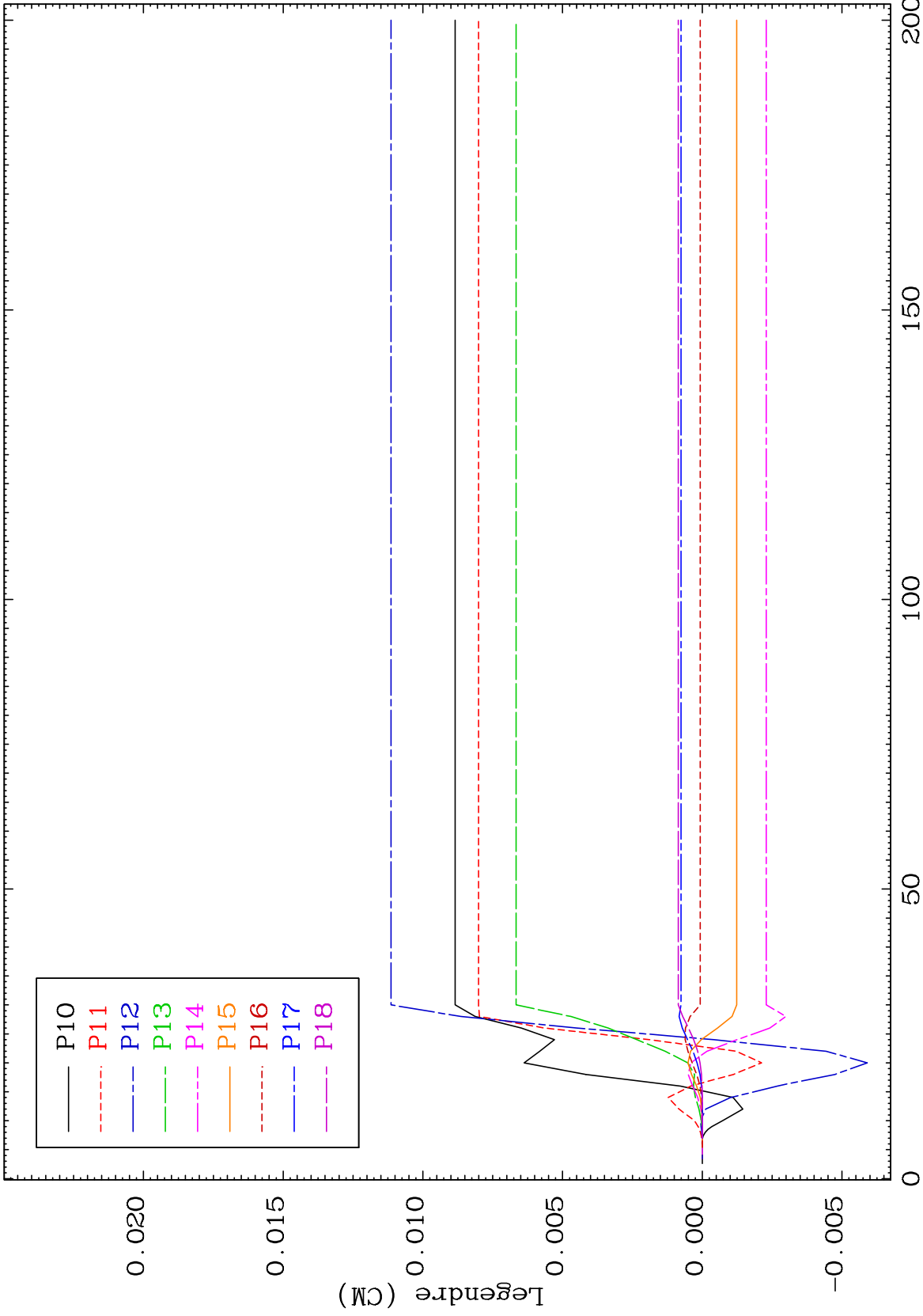
Incident Energy (MeV)

41-Nb-89

MAT 4113

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

41-Nb-89



91

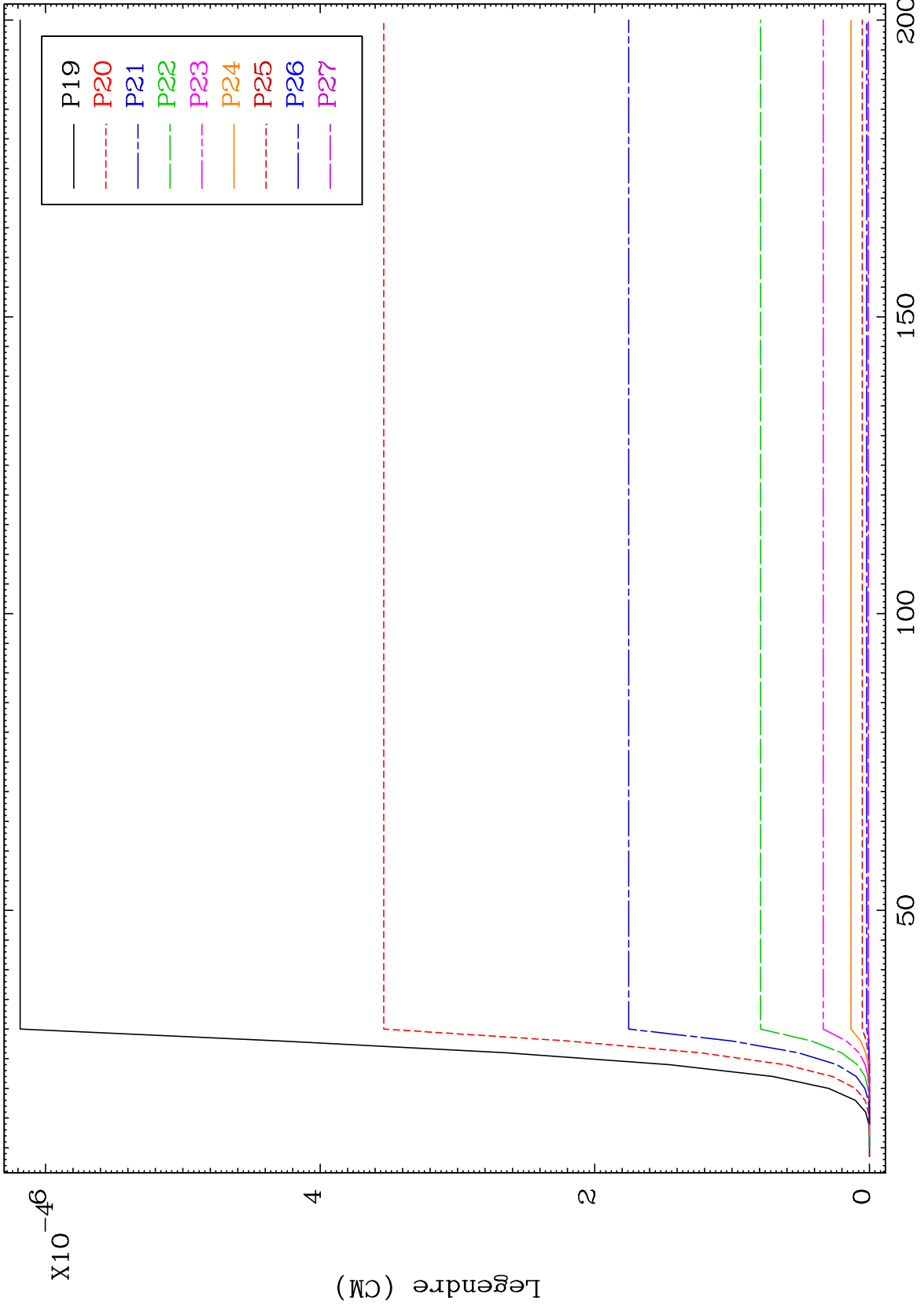
Incident Energy (MeV)

41-Nb-89

MAT 4113

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

41-Nb-89



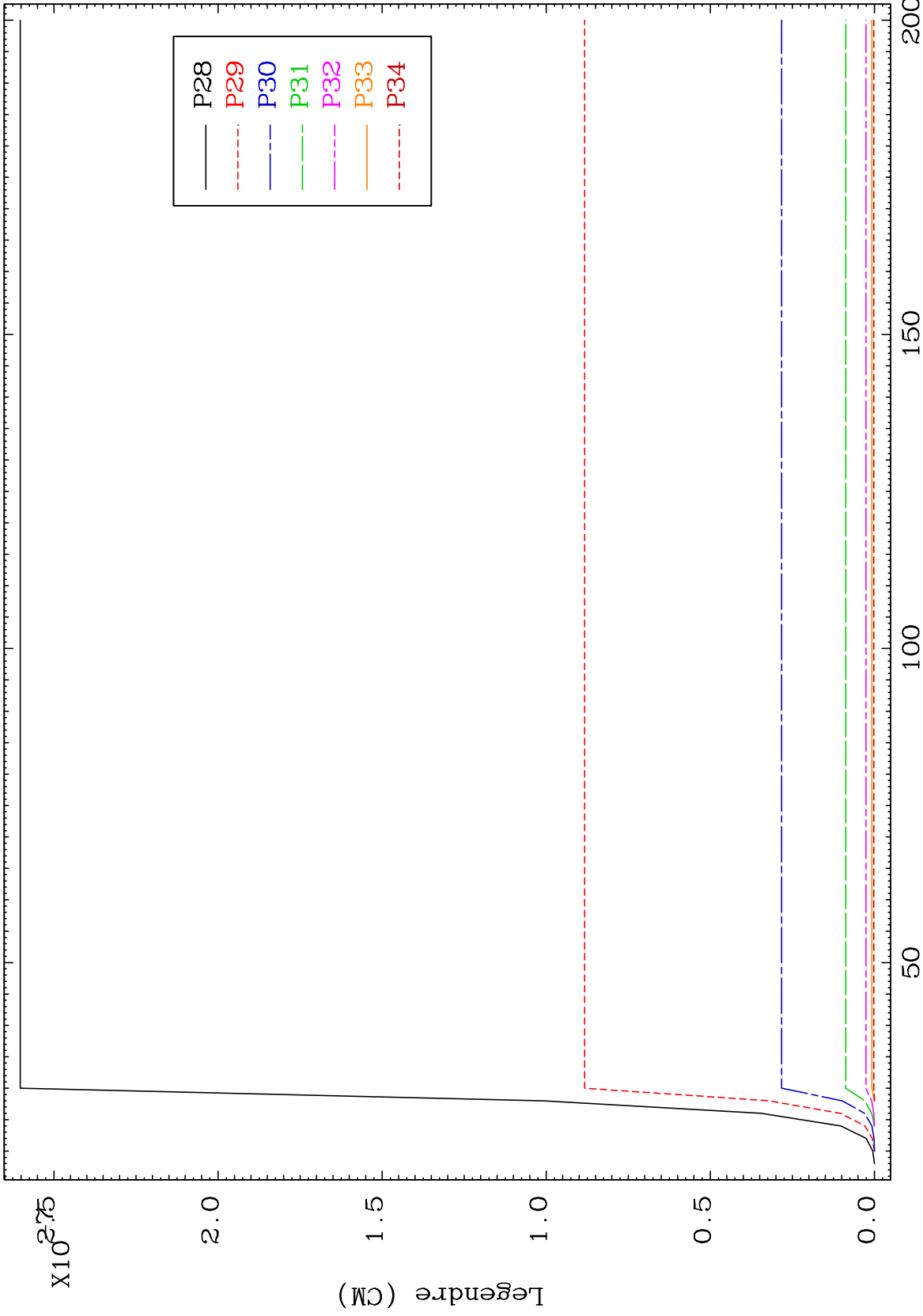
92

41-Nb-89

MAT 4113

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

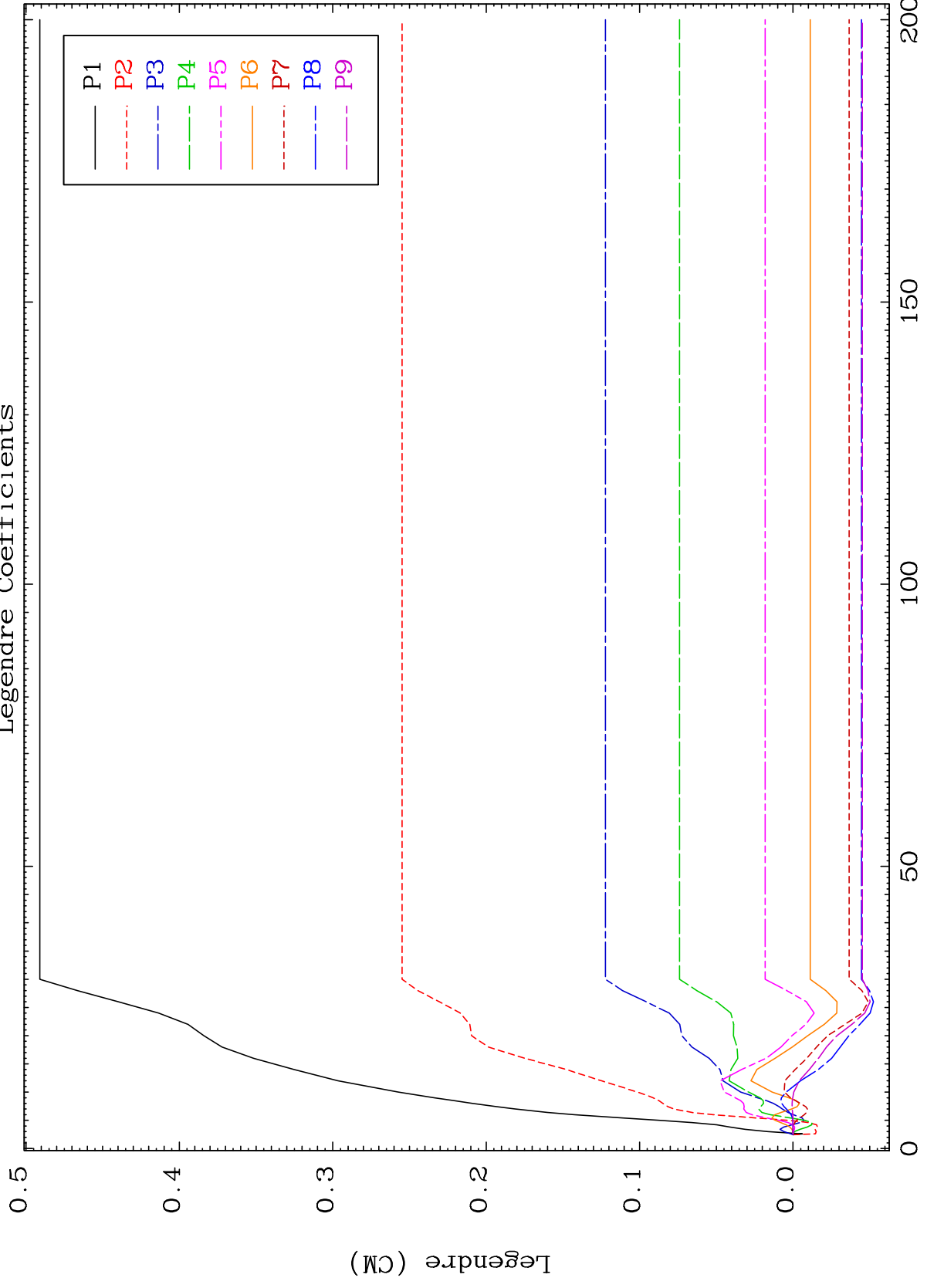
41-Nb-89



93

41-Nb-89

MAT 4113 MT= 70 (n,n') Level Legendre Coefficients 41-Nb-89

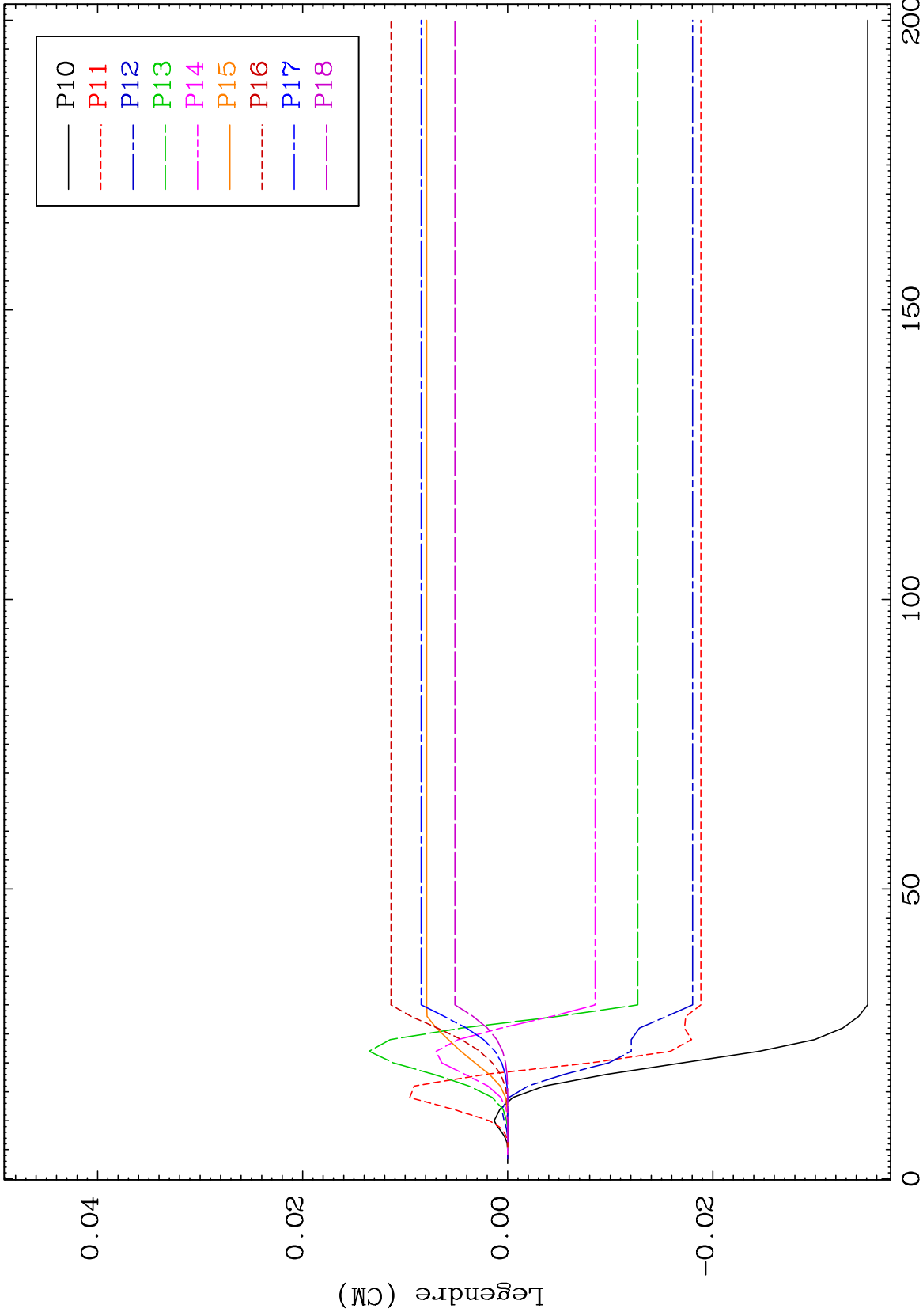


94 41-Nb-89

MAT 4113

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

41-Nb-89

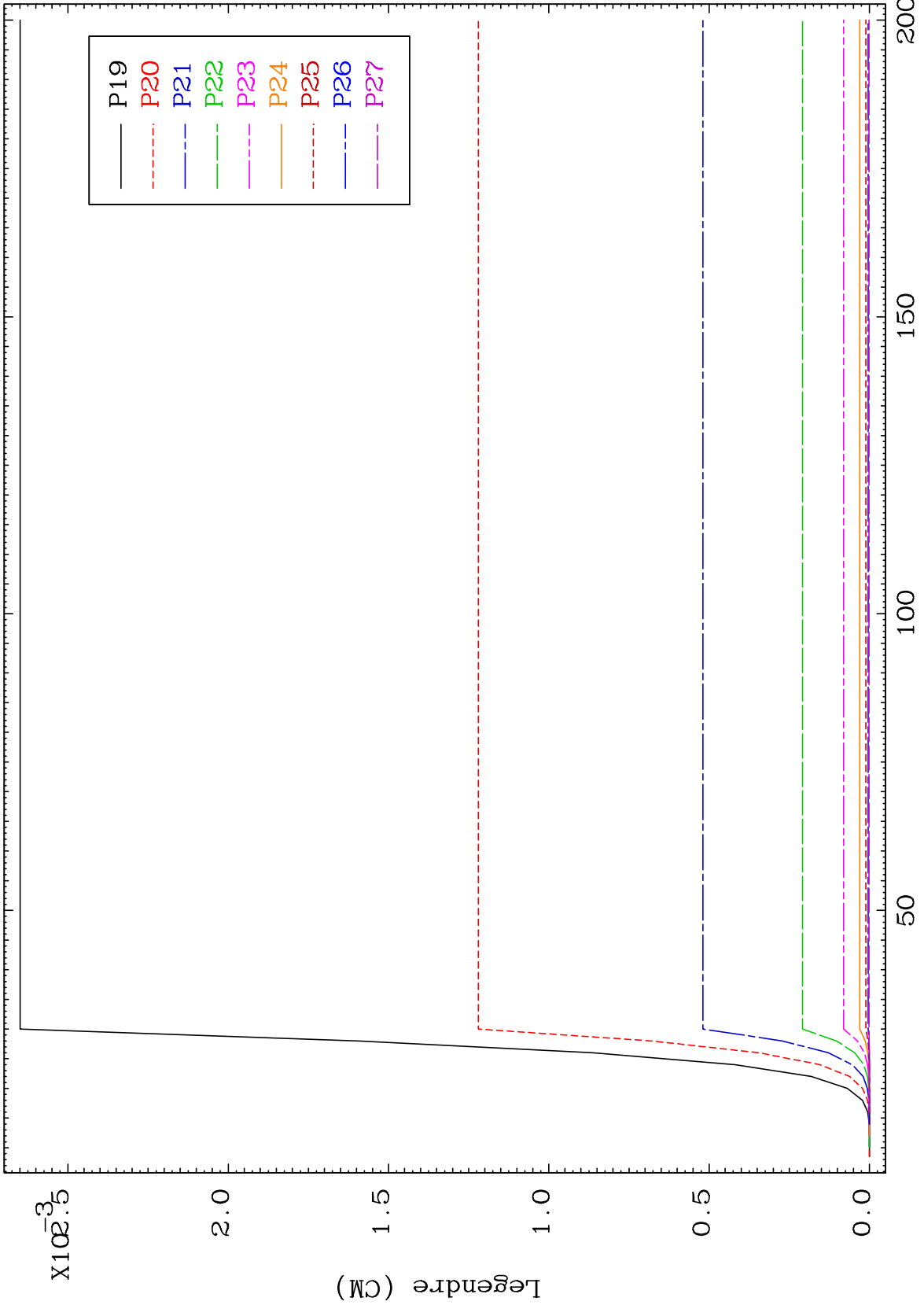


95

Incident Energy (MeV)

41-Nb-89

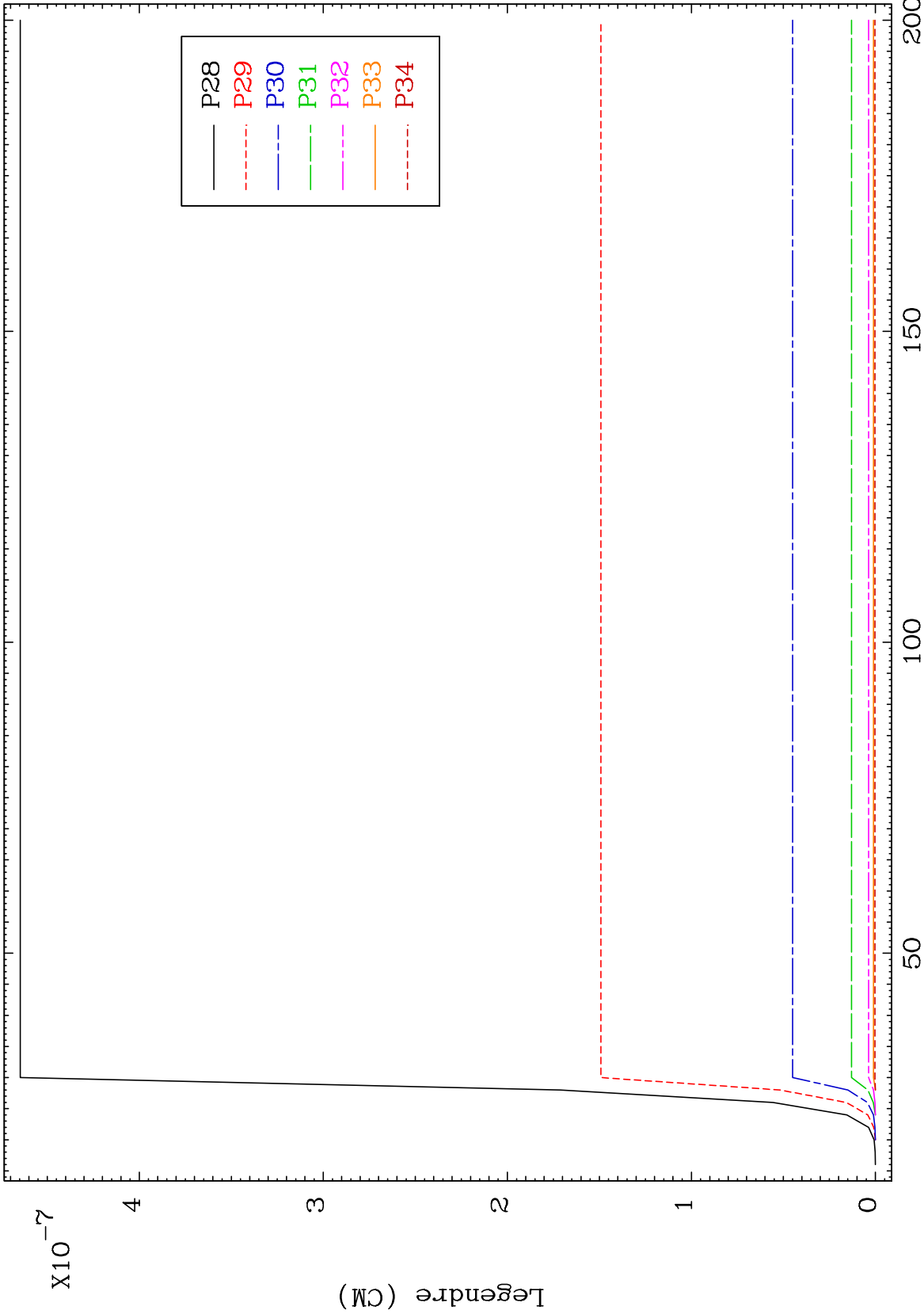




MAT 4113

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

41-Nb-89



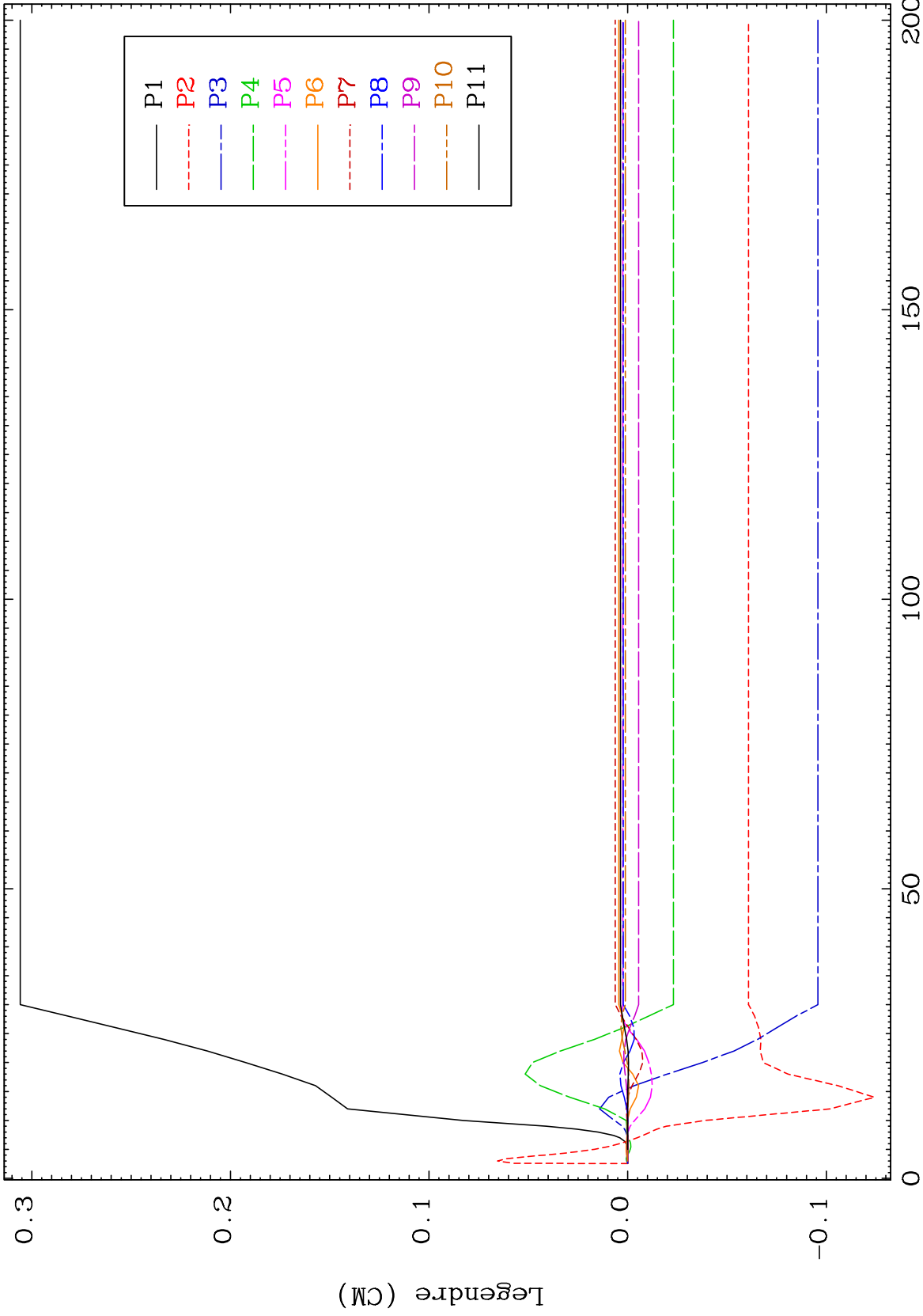
97

41-Nb-89

MAT 4113

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

41-Nb-89



98

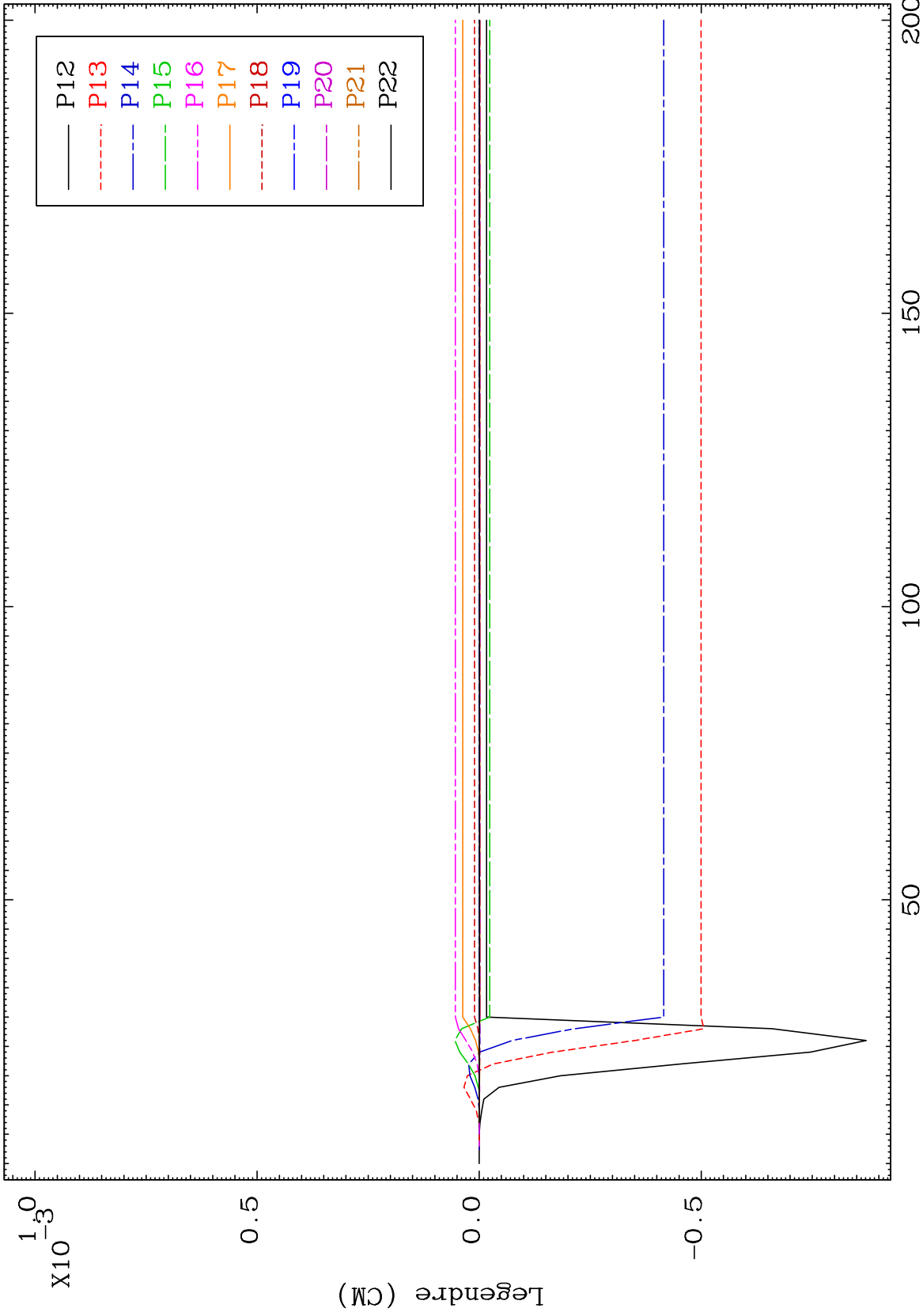
Incident Energy (MeV)

41-Nb-89

MAT 4113

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

41-Nb-89



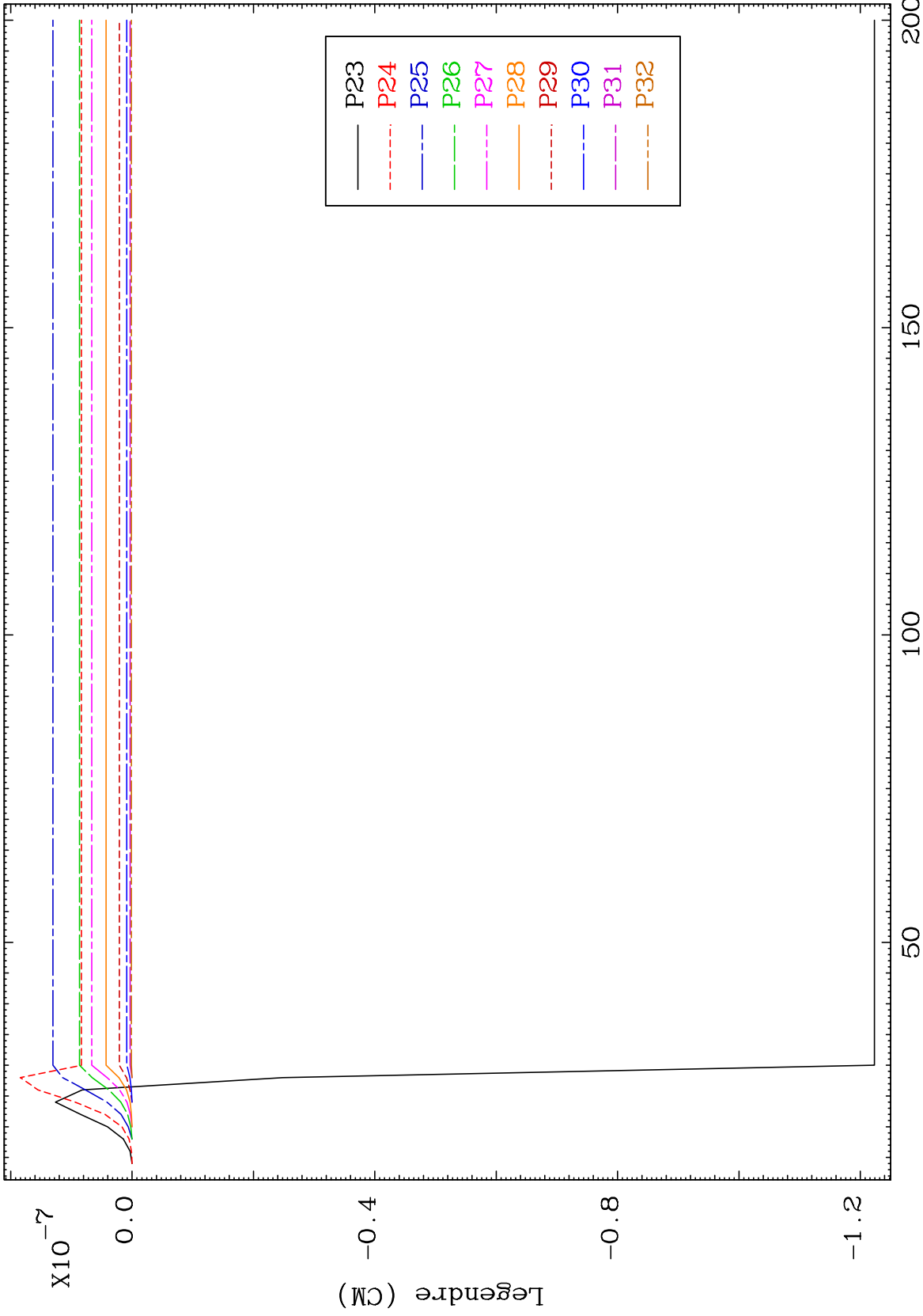
99

41-Nb-89

MAT 4113

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

41-Nb-89



100

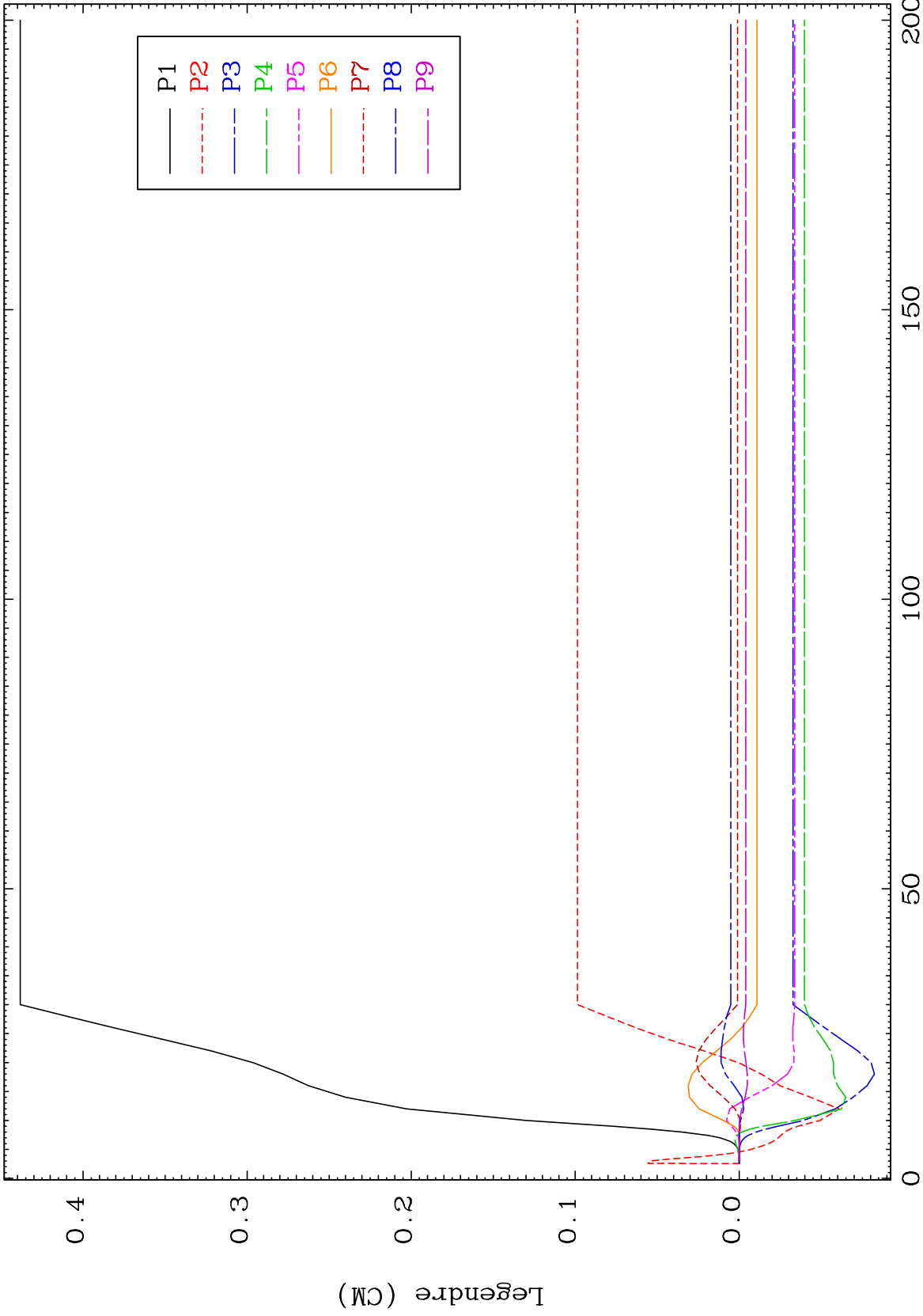
Incident Energy (MeV)

41-Nb-89

MAT 4113

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

41-Nb-89



41-Nb-89

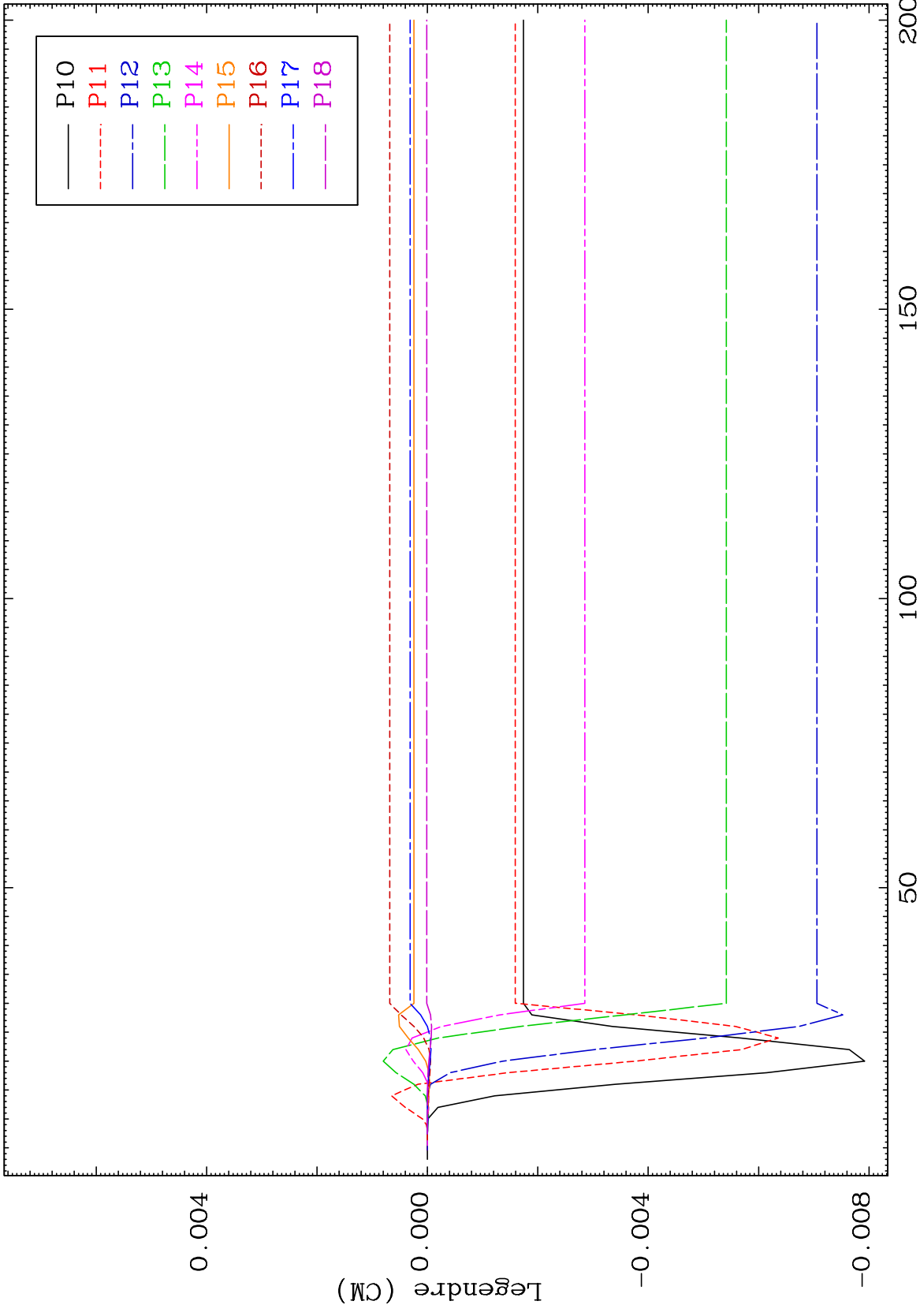
Incident Energy (MeV)

101

MAT 4113

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

41-Nb-89



102

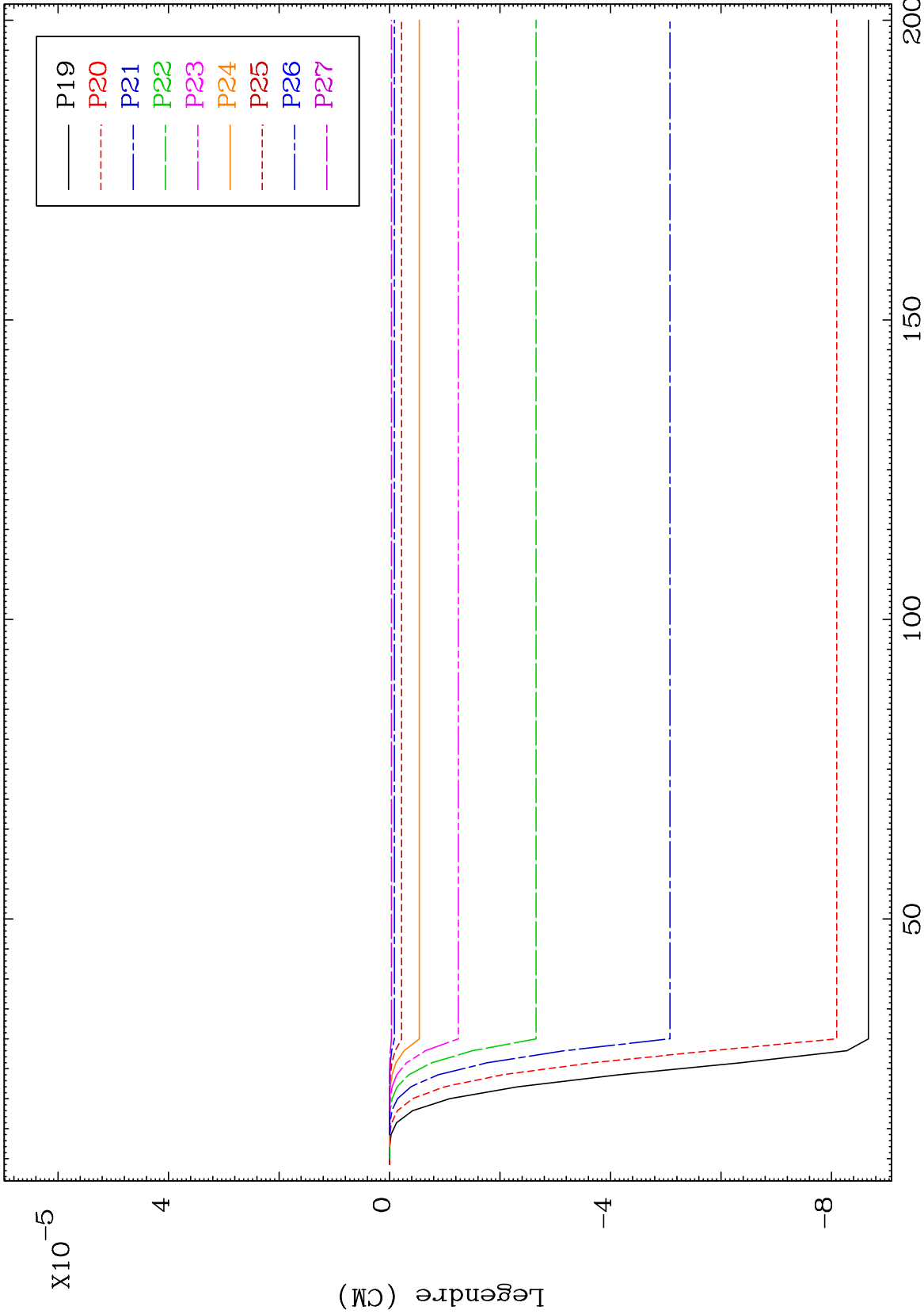
Incident Energy (MeV)

41-Nb-89

MAT 4113

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

41-Nb-89



103

Incident Energy (MeV)

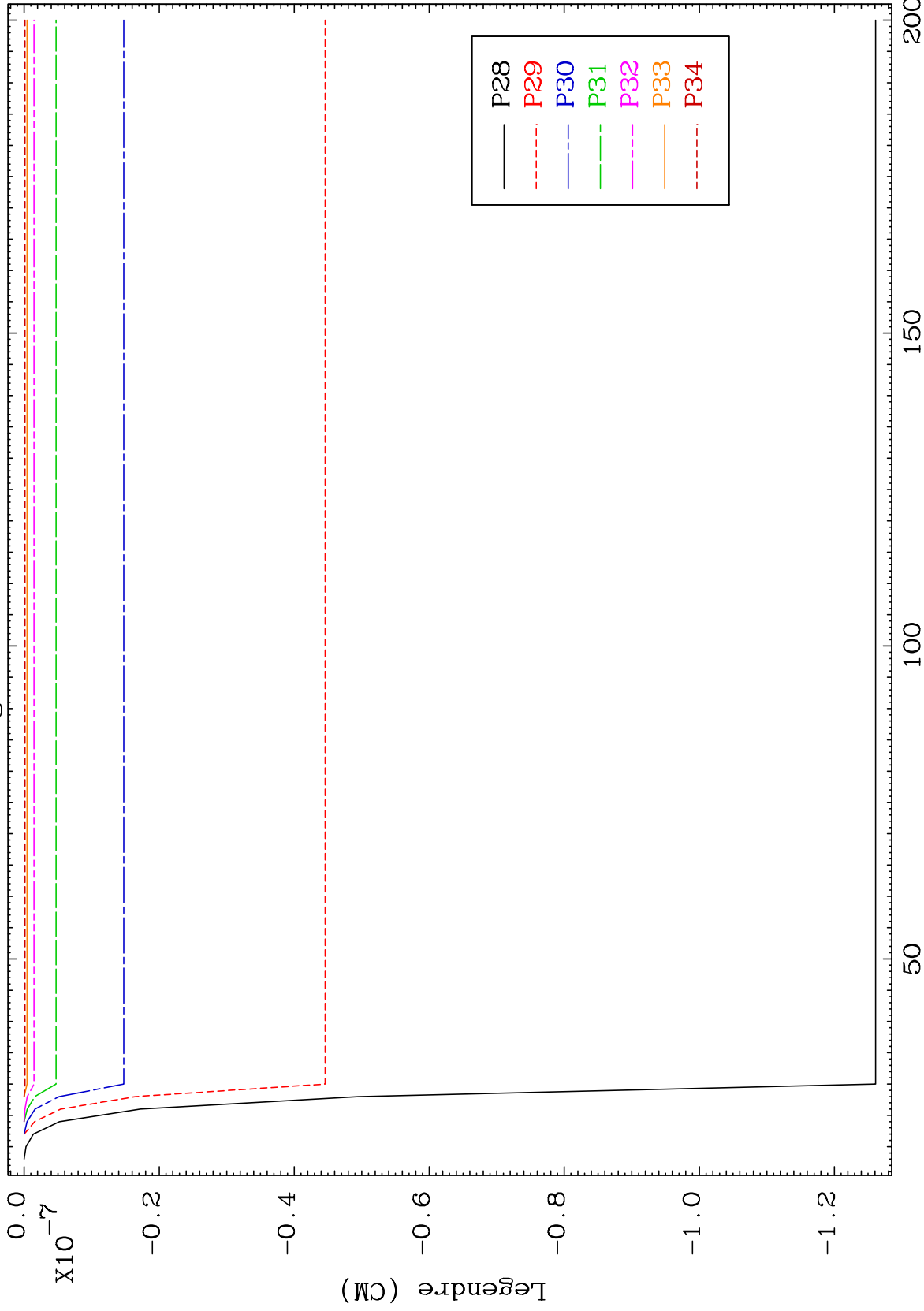
41-Nb-89



MAT 4113

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

41-Nb-89



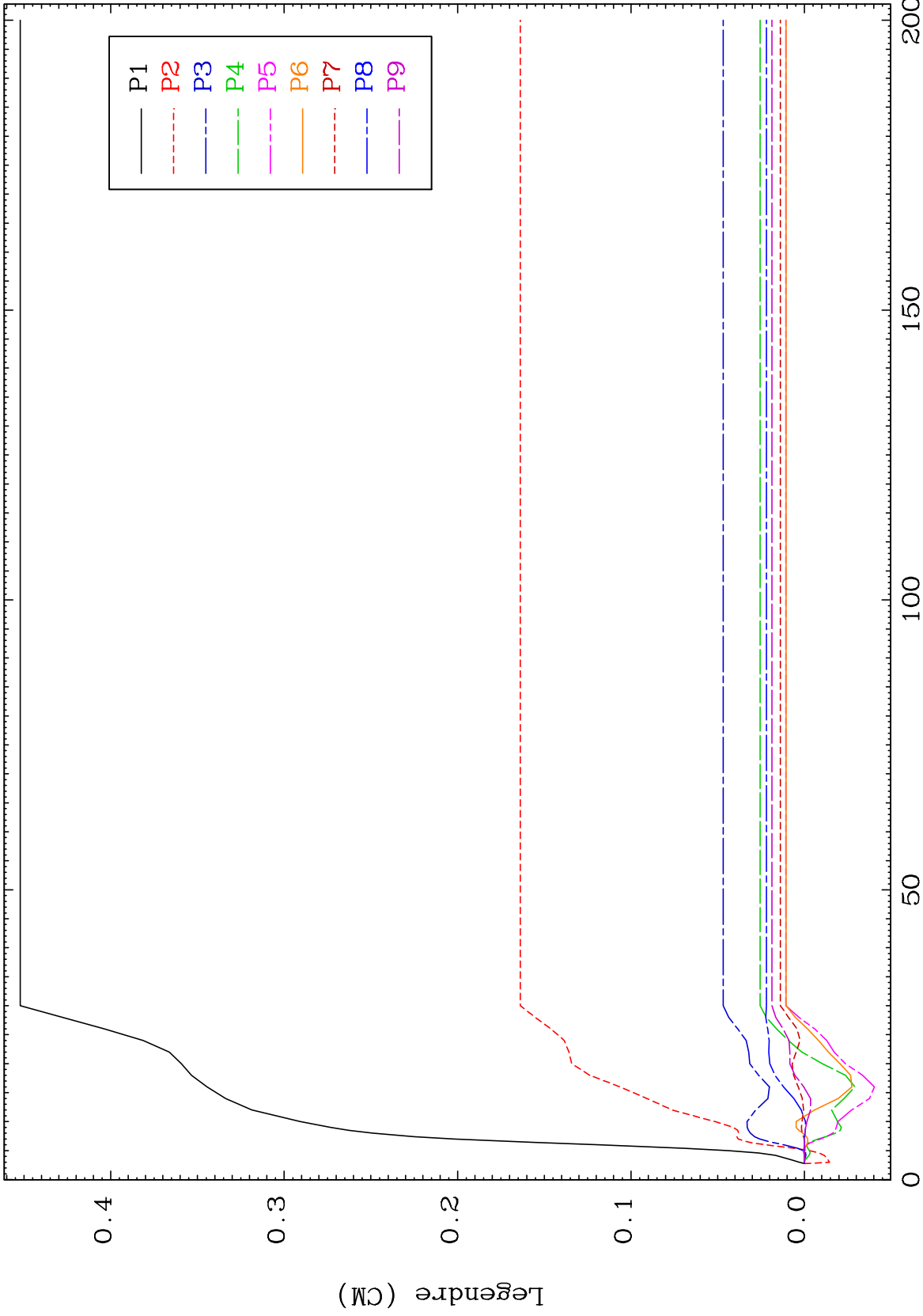
104

41-Nb-89

MAT 4113

MT= 73 (n,n') Level  
Legendre Coefficients

41-Nb-89



41-Nb-89

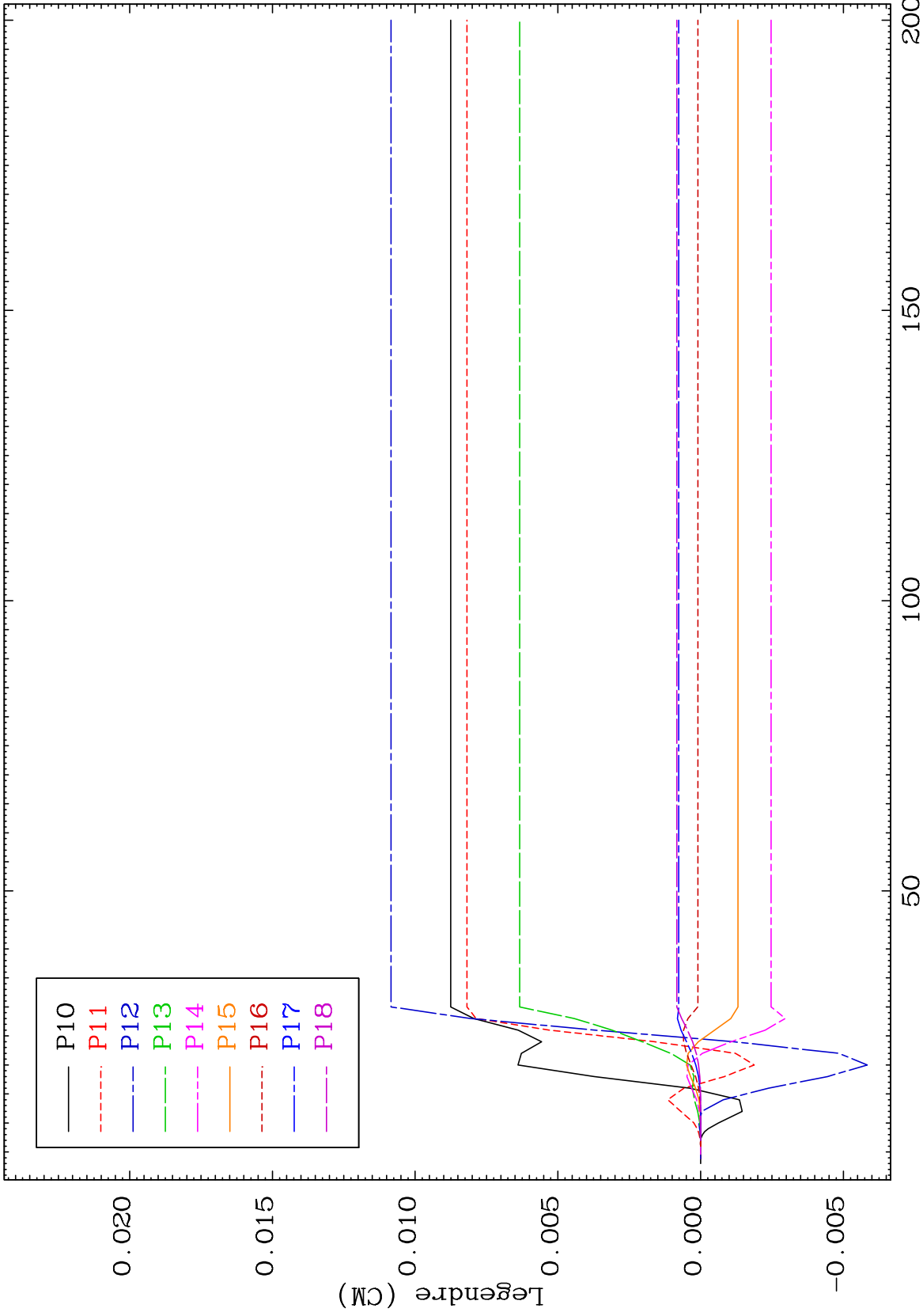
Incident Energy (MeV)

105

MAT 4113

MT= 73 (n,n') Level  
Legendre Coefficients

41-Nb-89



106

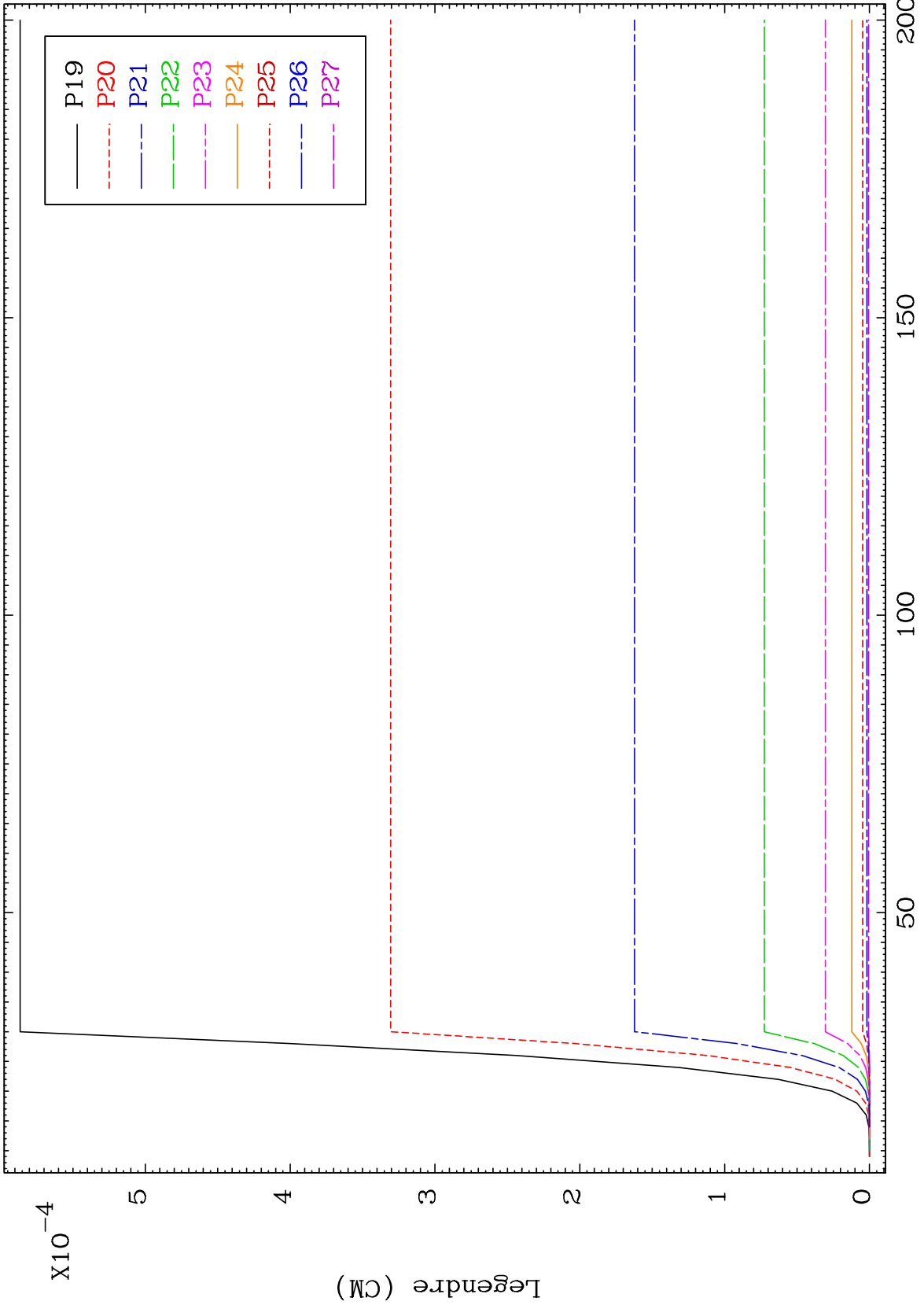
Incident Energy (MeV)

41-Nb-89

MAT 4113

MT= 73 (n,n') Level  
Legendre Coefficients

41-Nb-89



107

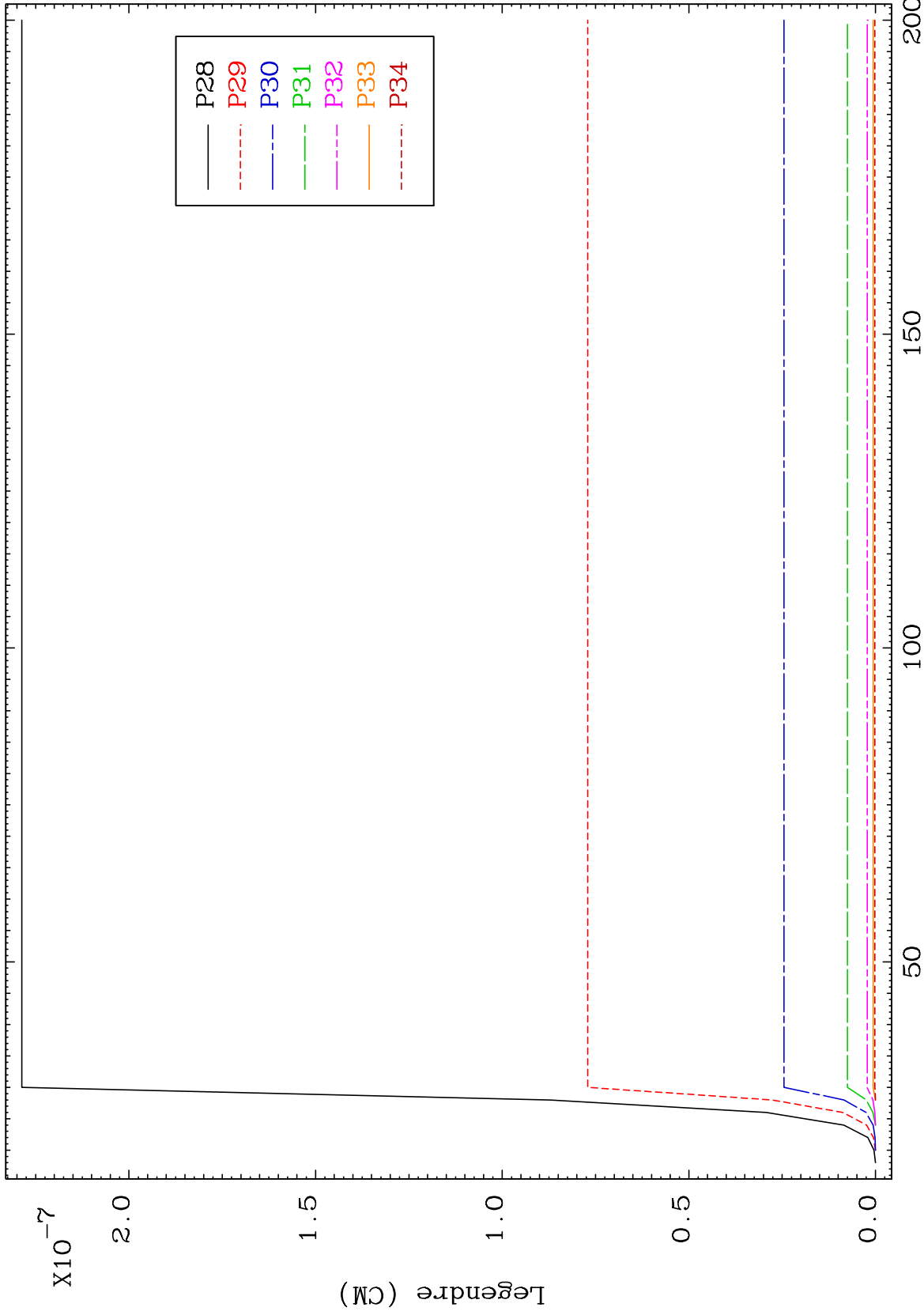
Incident Energy (MeV)

41-Nb-89

MAT 4113

MT= 73 (n,n') Level  
Legendre Coefficients

41-Nb-89



108

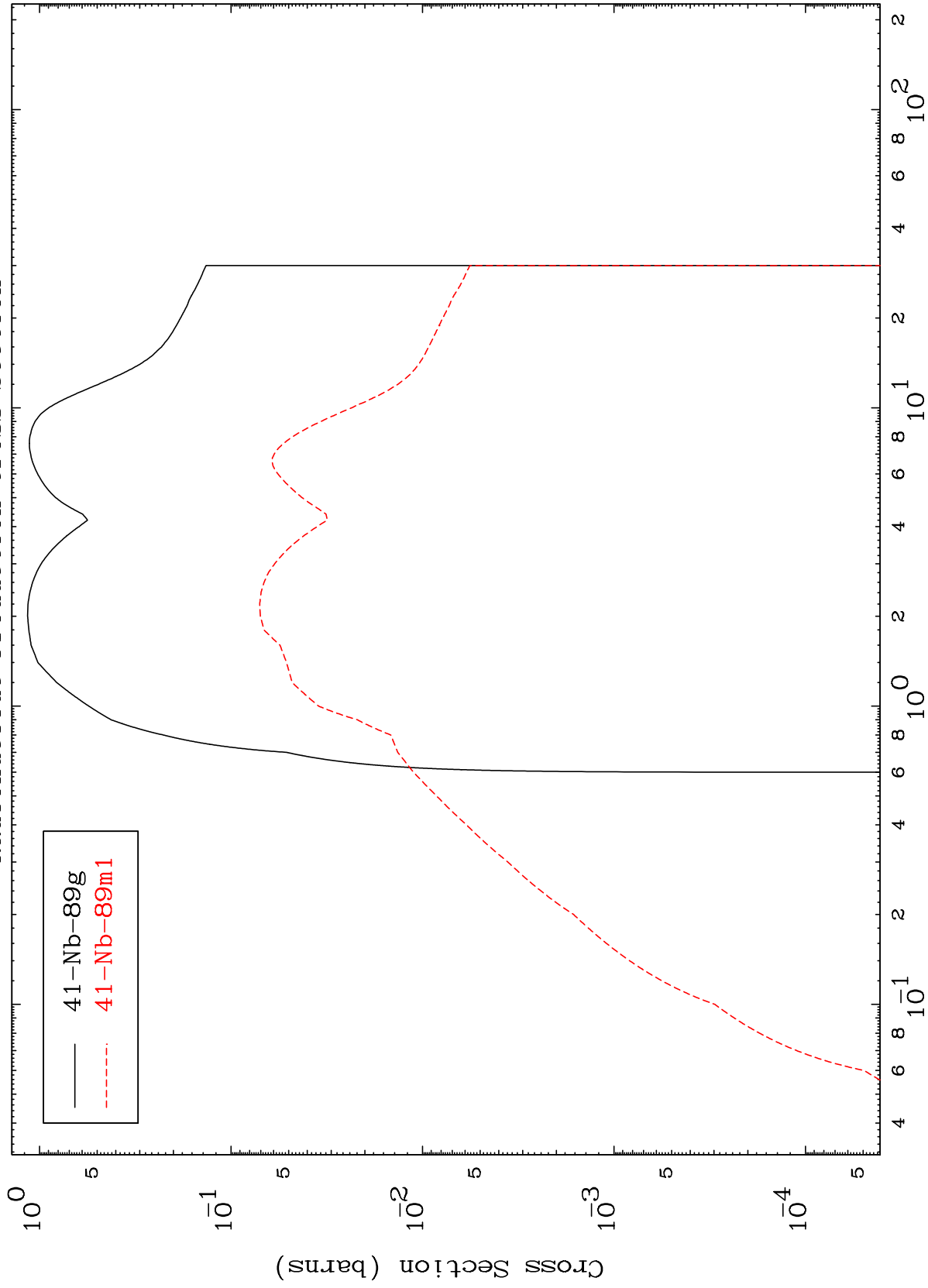
Incident Energy (MeV)

41-Nb-89

MAT 4113

41-Nb-89

Inelastic  
Radionuclide Production Cross Section



— 41-Nb-89g  
- - - 41-Nb-89m1

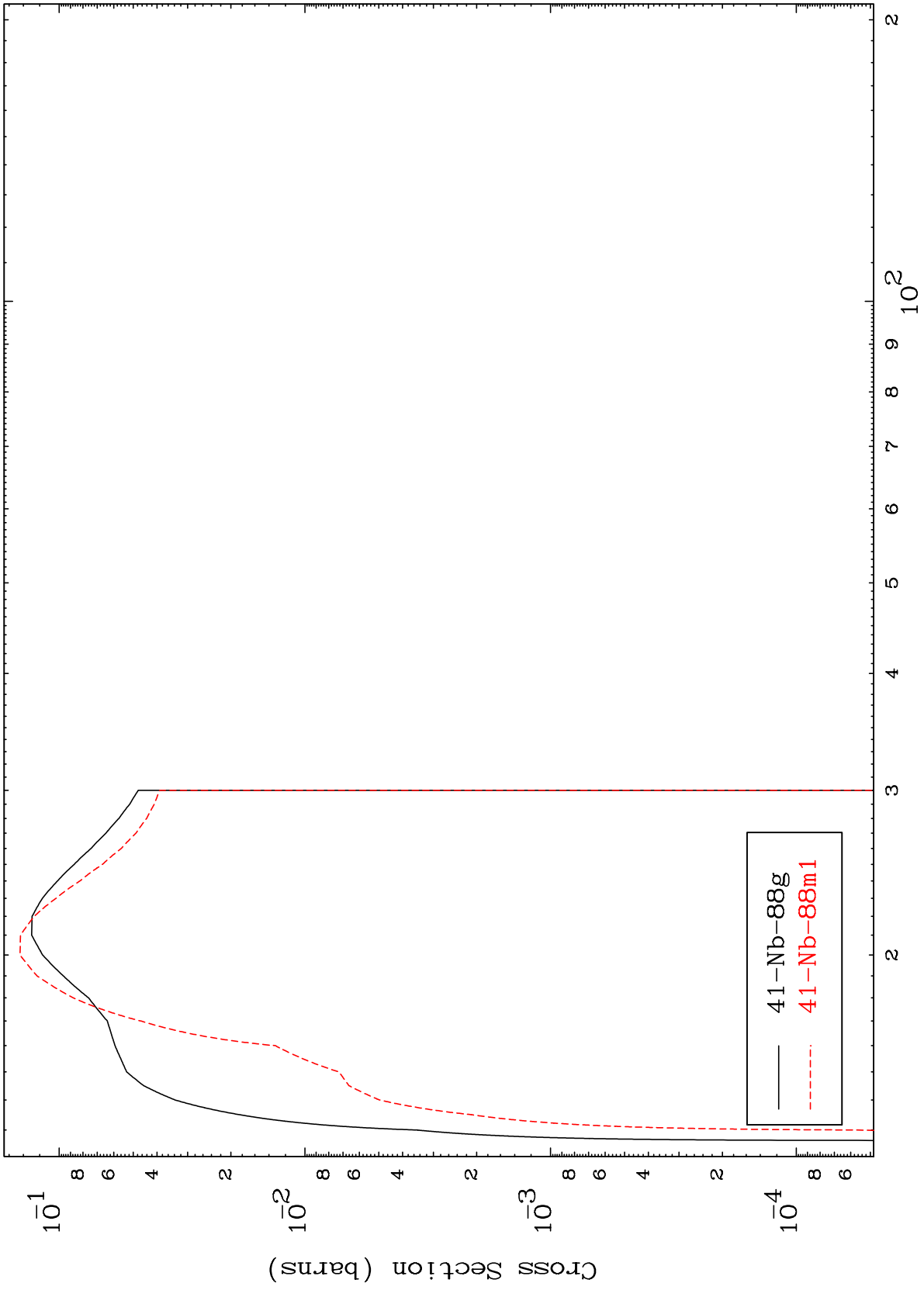
109

41-Nb-89

MAT 4113

41-Nb-89

(n,2n)  
Radionuclide Production Cross Section



110

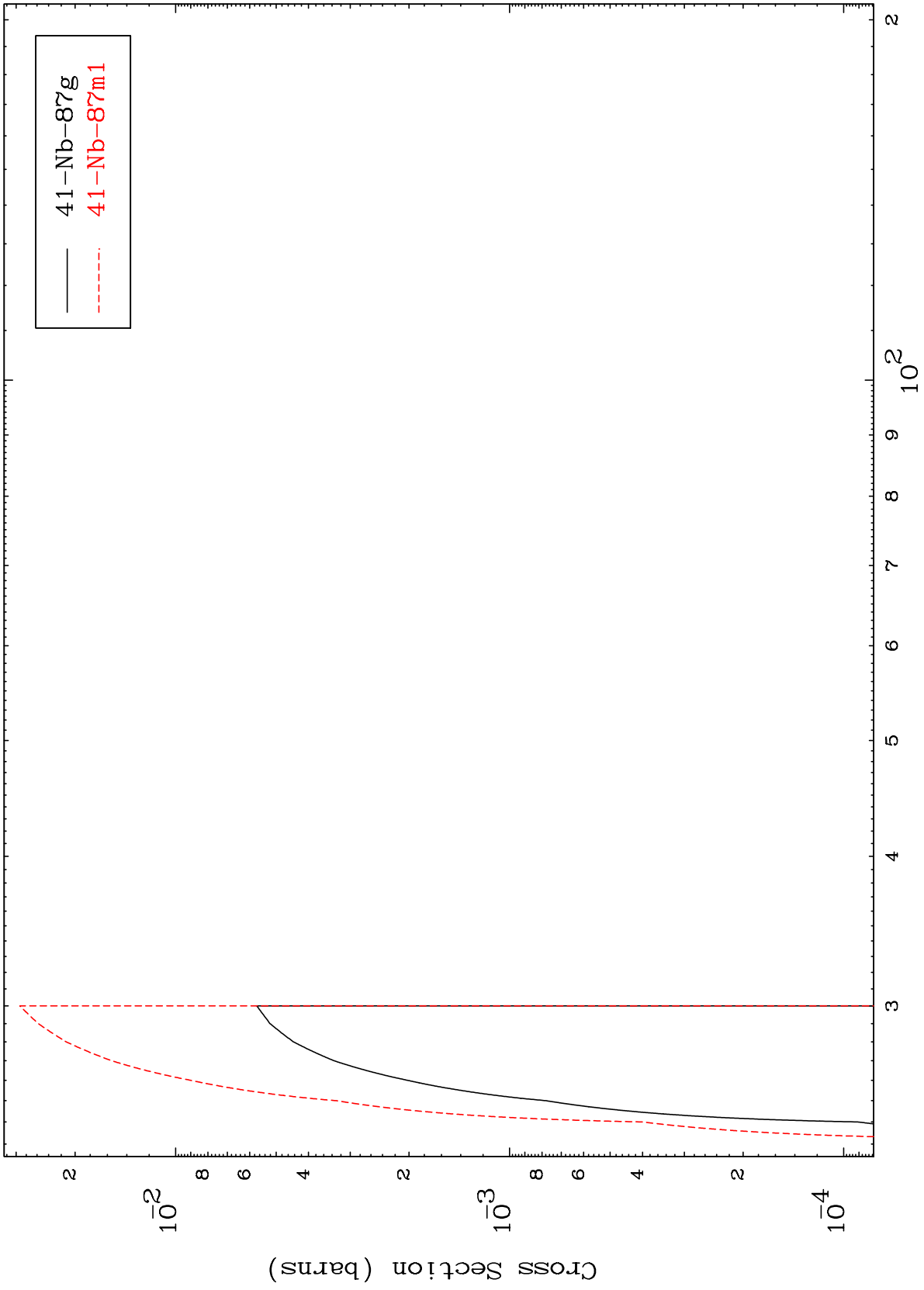
41-Nb-89

Incident Energy (MeV)

MAT 4113

41-Nb-89

(n,3n)  
Radionuclide Production Cross Section



41-Nb-87g  
41-Nb-87m1

111

41-Nb-89

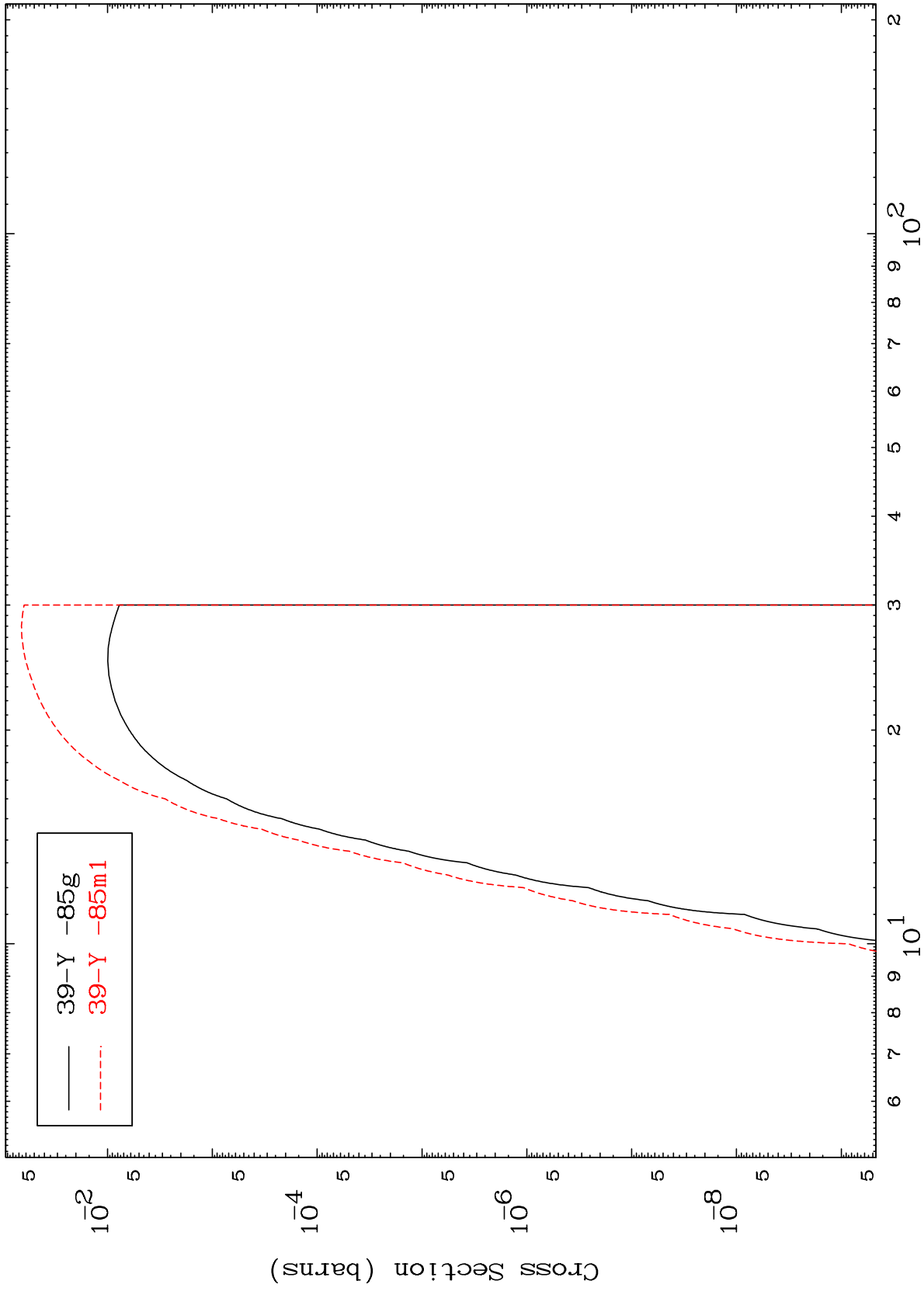
Incident Energy (MeV)



MAT 4113

41-Nb-89

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



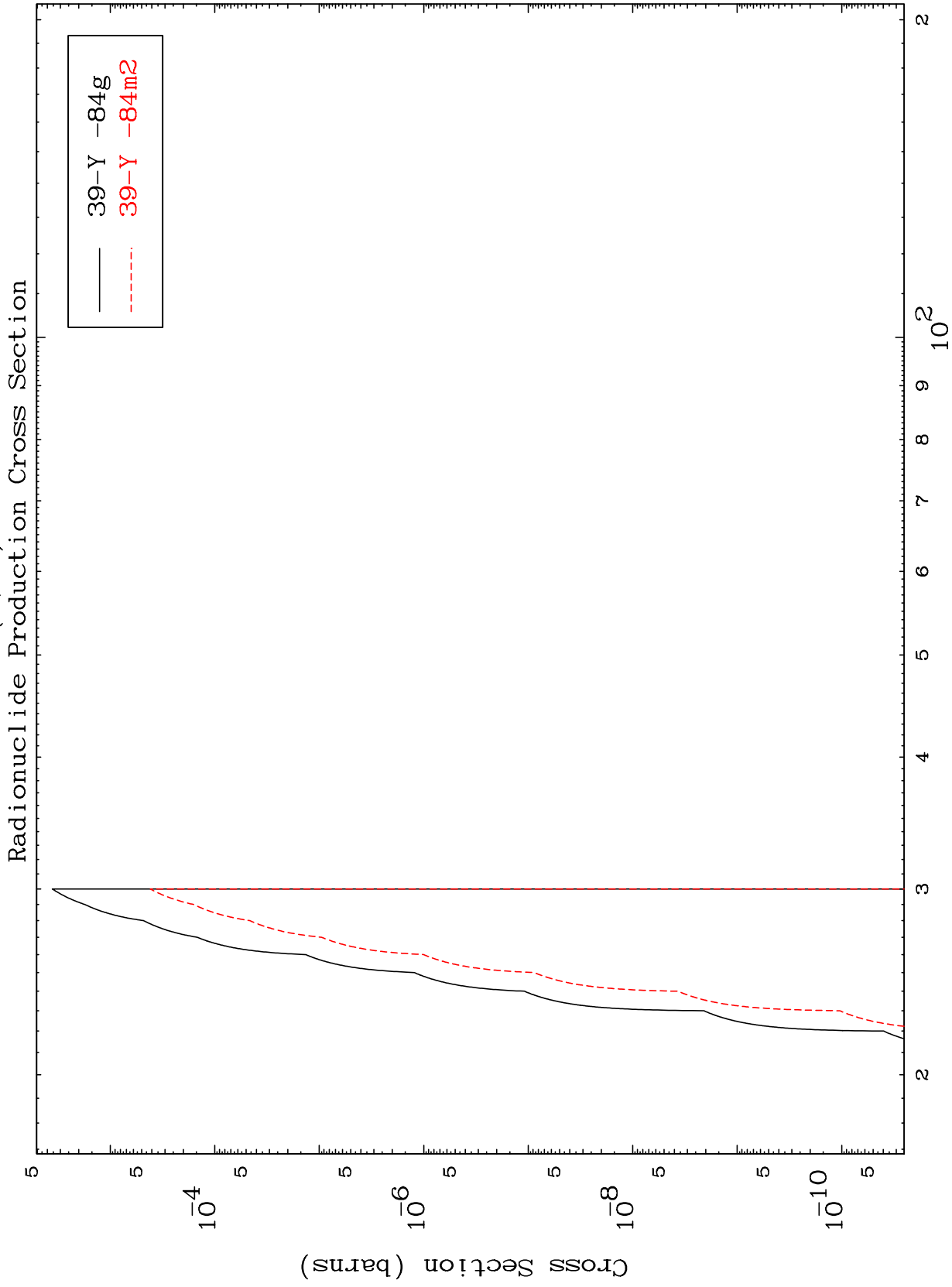
112

41-Nb-89

MAT 4113

(n,2n)  $\alpha$

41-Nb-89



113

Incident Energy (MeV)

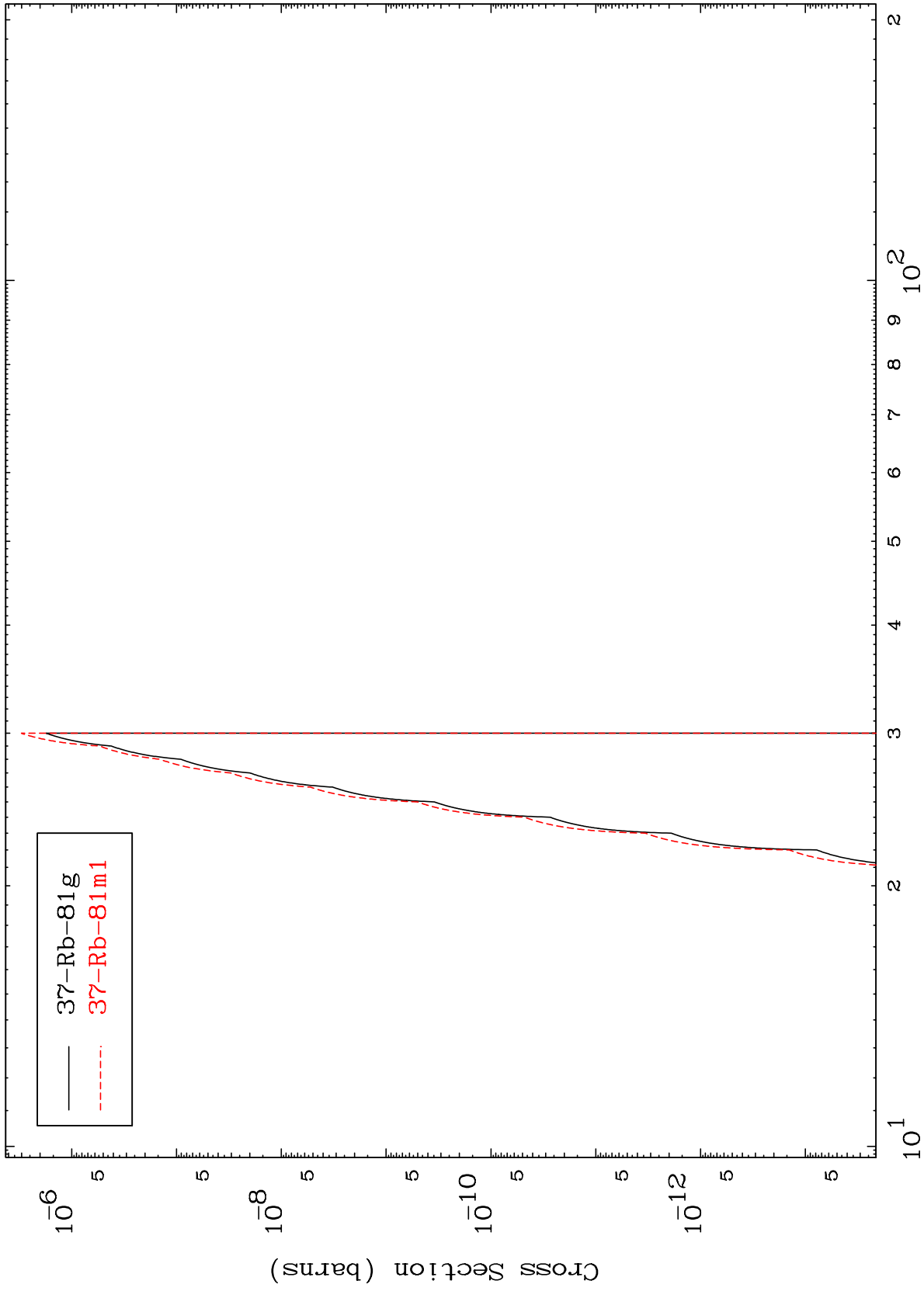
41-Nb-89

MAT 4113

(n,n') 2 $\alpha$

41-Nb-89

Radionuclide Production Cross Section



114

Incident Energy (MeV)

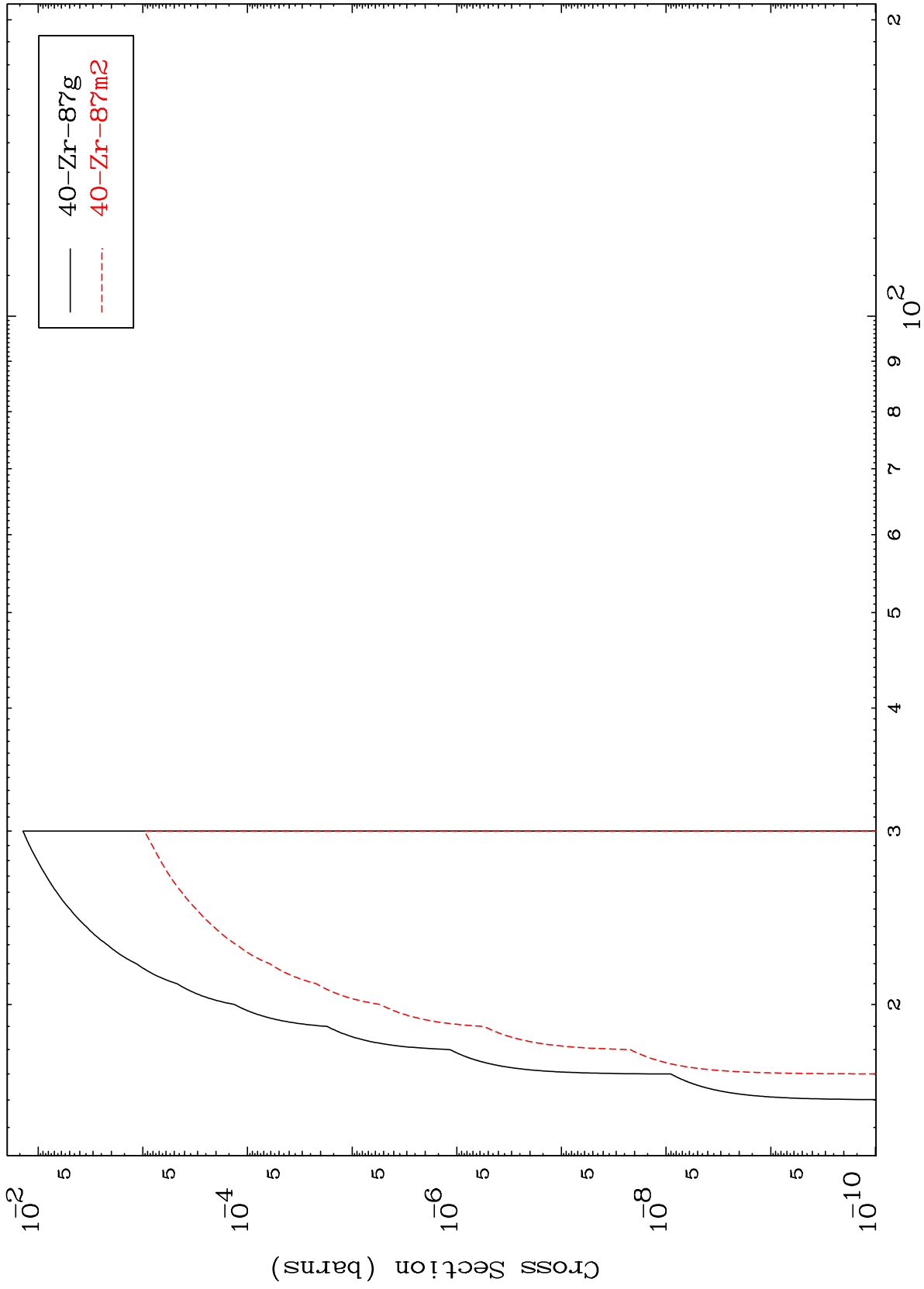
41-Nb-89

MAT 4113

(n,n') d

41-Nb-89

Radionuclide Production Cross Section



115

Incident Energy (MeV)

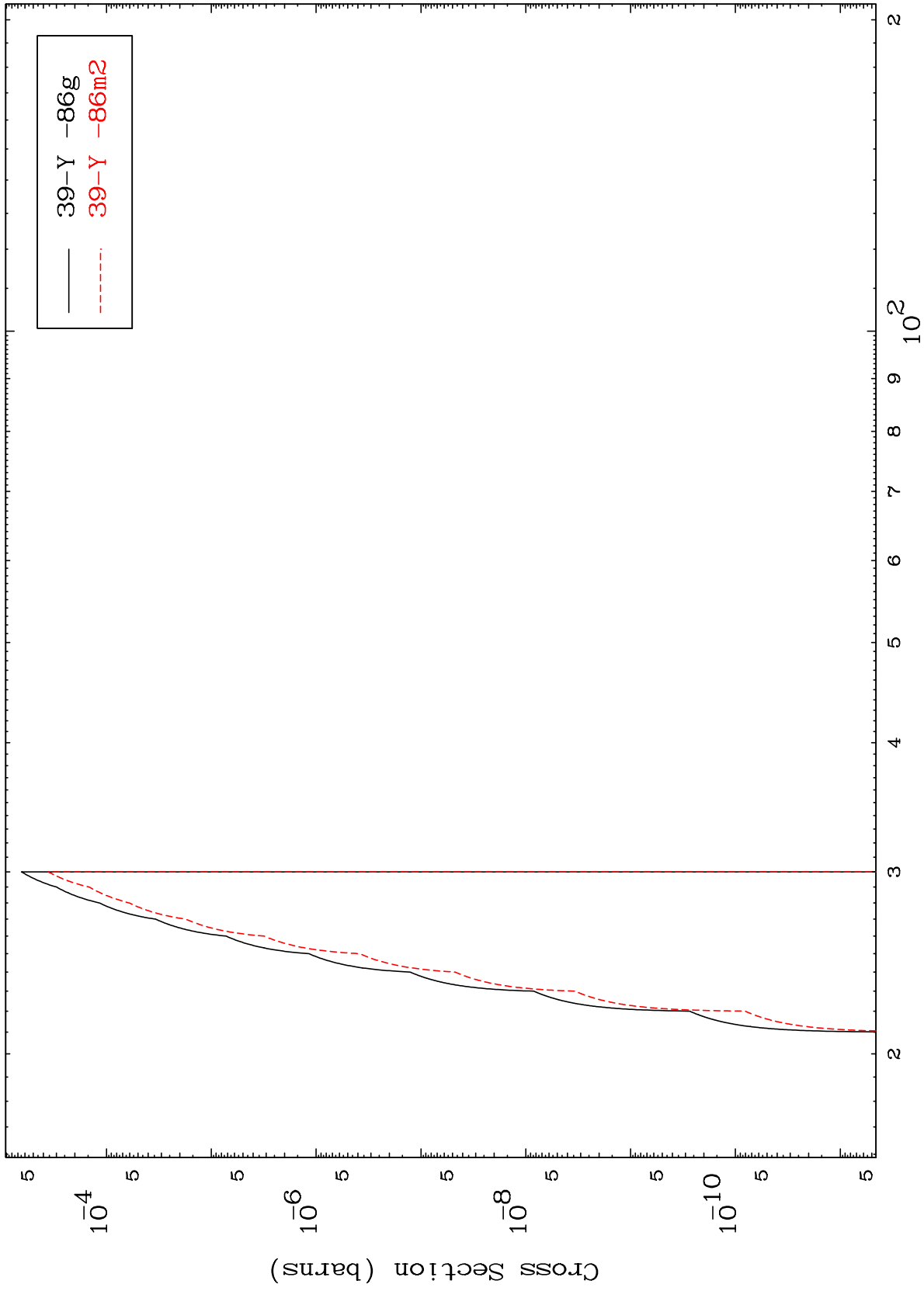
41-Nb-89

MAT 4113

(n, n') He-3

41-Nb-89

Radionuclide Production Cross Section



116

Incident Energy (MeV)

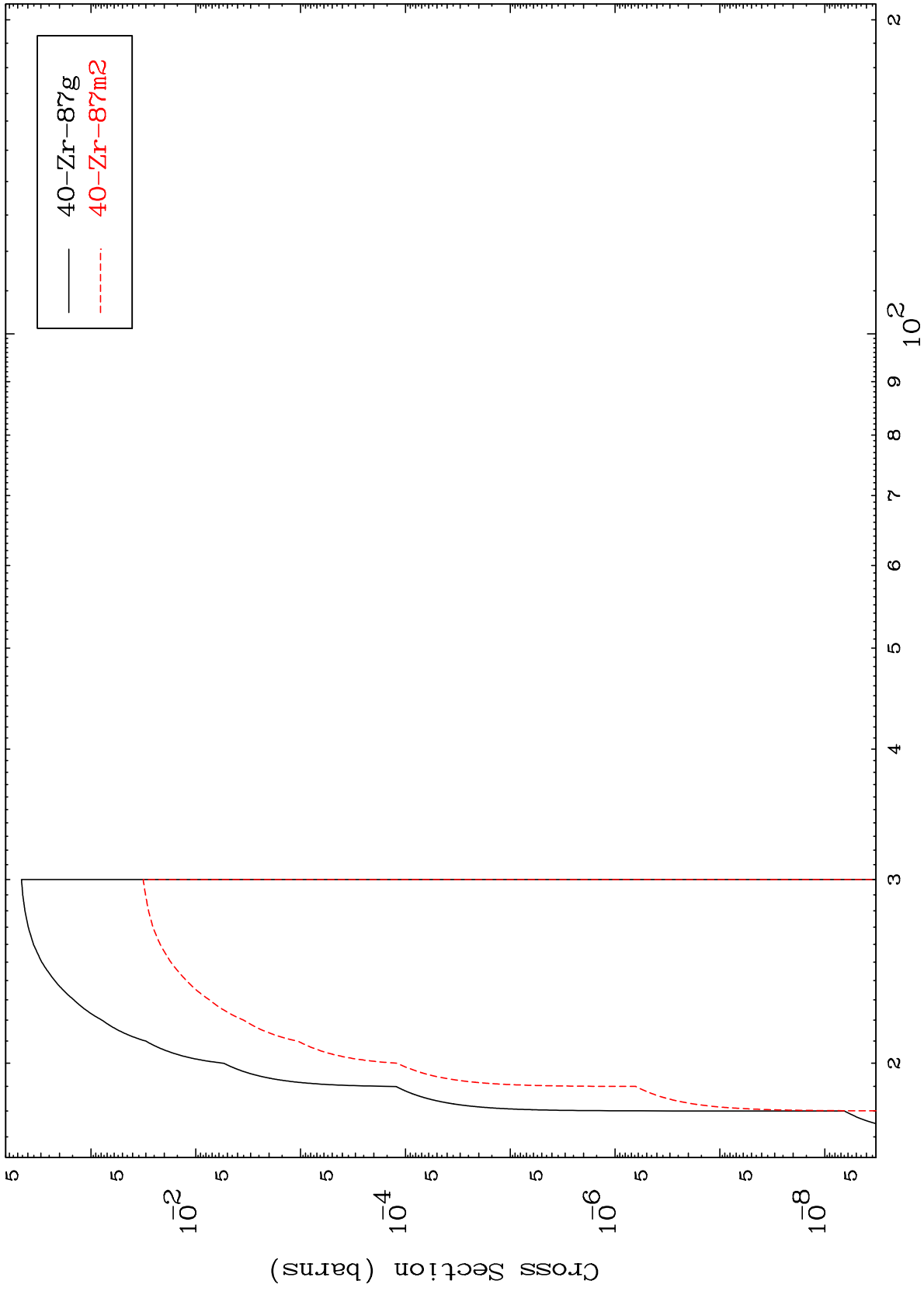
41-Nb-89

MAT 4113

(n,2n) p

41-Nb-89

Radionuclide Production Cross Section



117

Incident Energy (MeV)

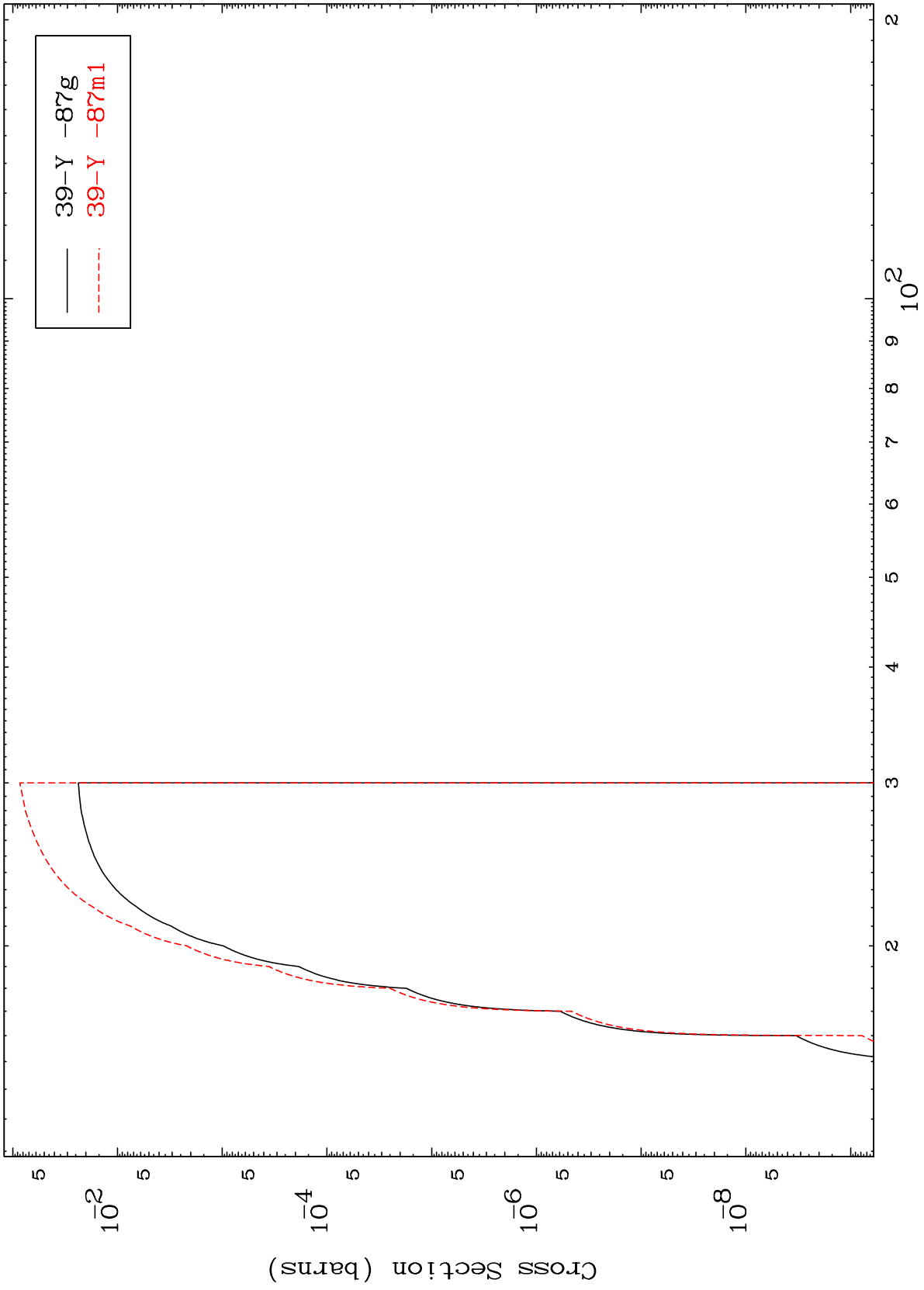
41-Nb-89

MAT 4113

(n,2n) p

41-Nb-89

Radionuclide Production Cross Section



118

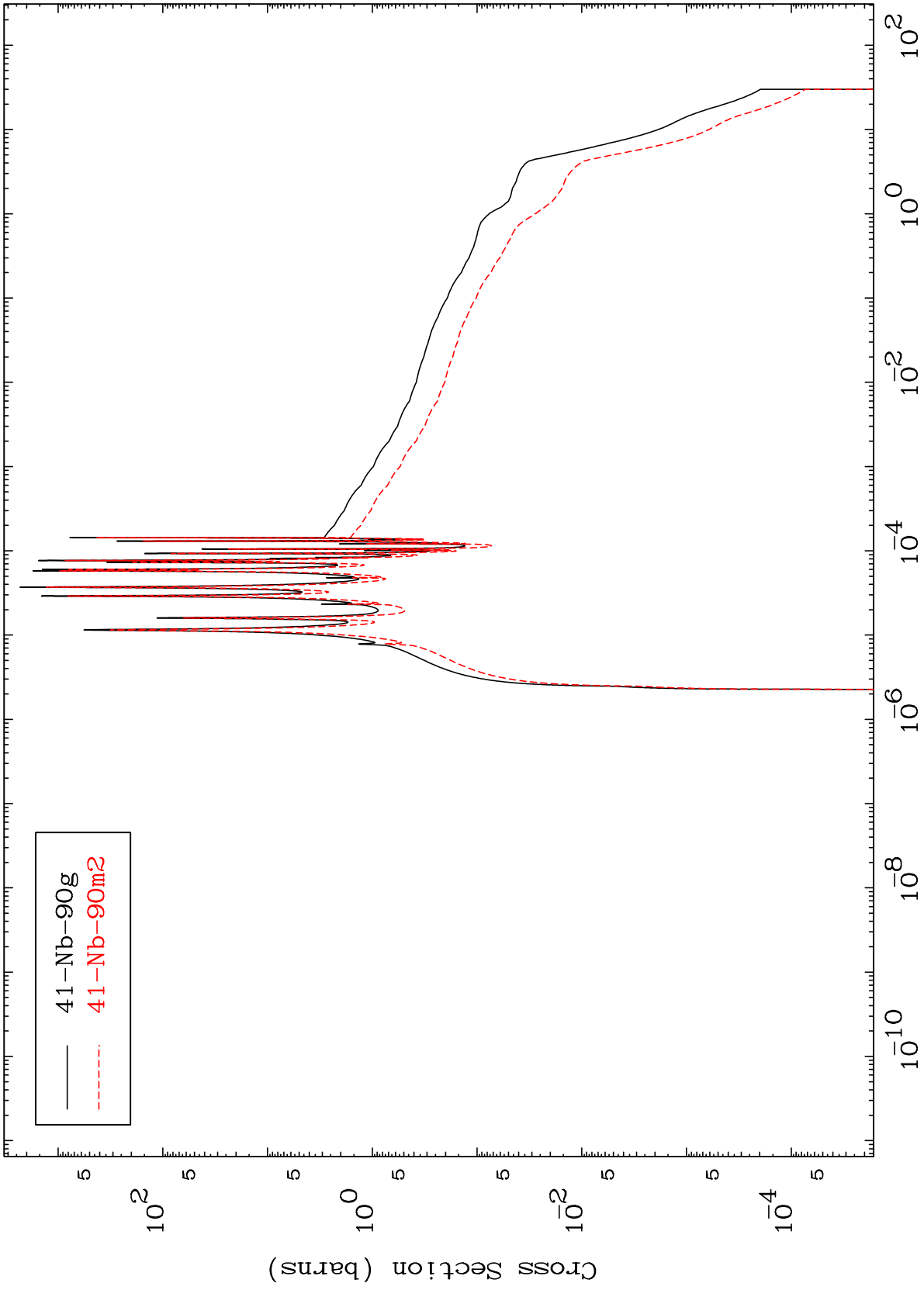
Incident Energy (MeV)

41-Nb-89

MAT 4113

41-Nb-89

(n,γ)  
Radionuclide Production Cross Section



119

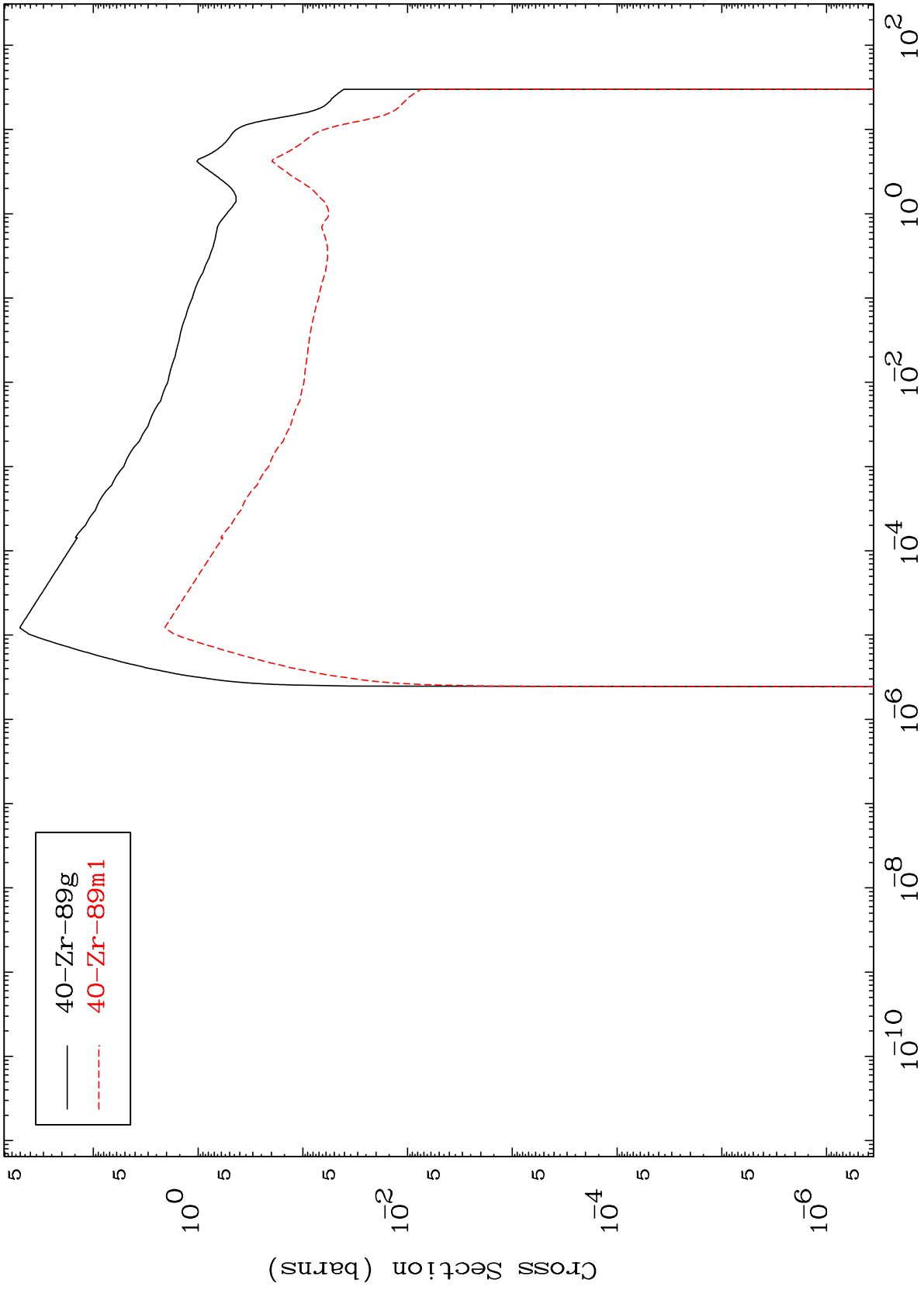
41-Nb-89



MAT 4113

41-Nb-89

(n,p)  
Radionuclide Production Cross Section



— 40-Zr-89g  
- - - 40-Zr-89m1

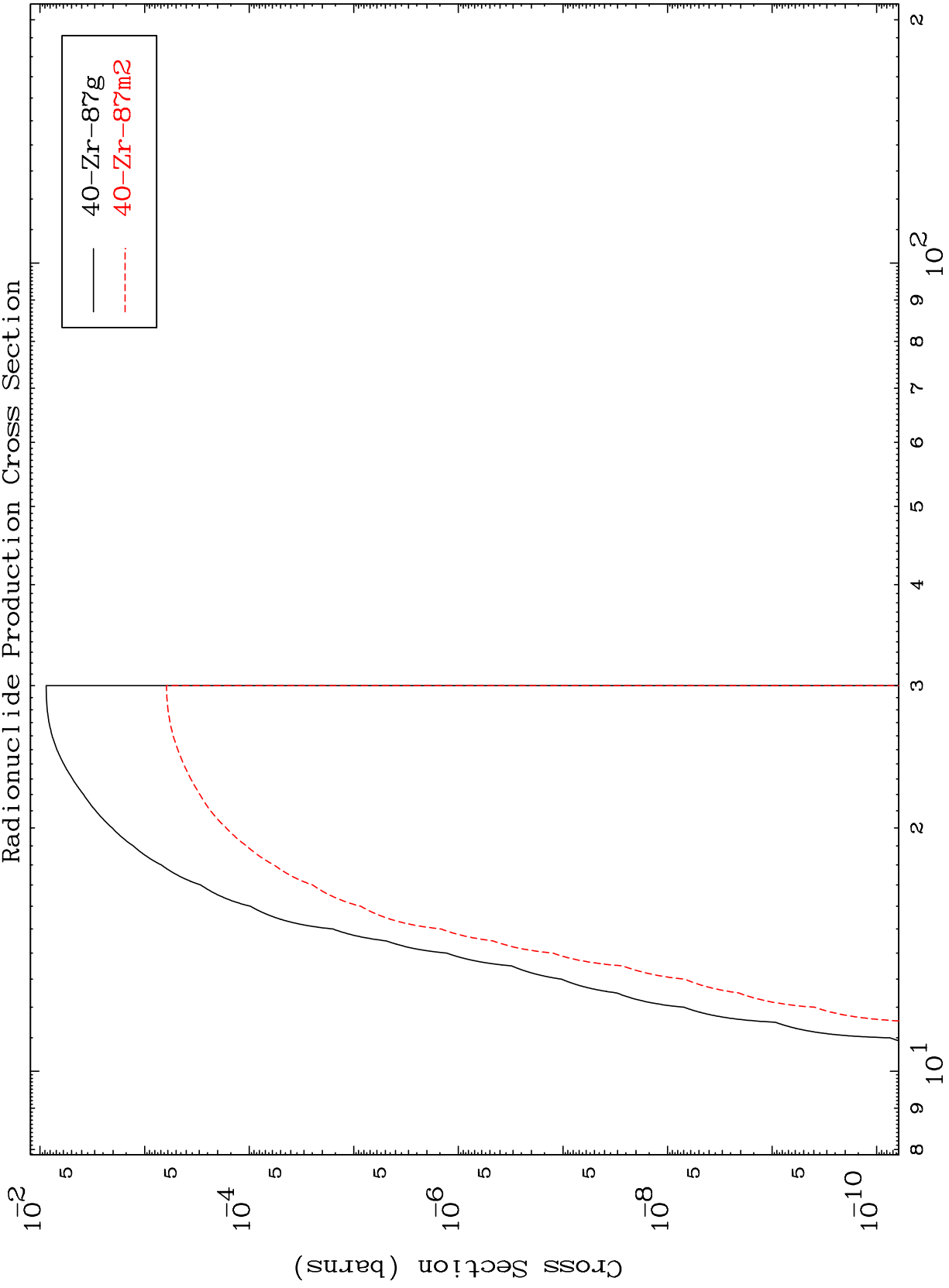
120

41-Nb-89

MAT 4113

41-Nb-89

(n, t)  
Radionuclide Production Cross Section



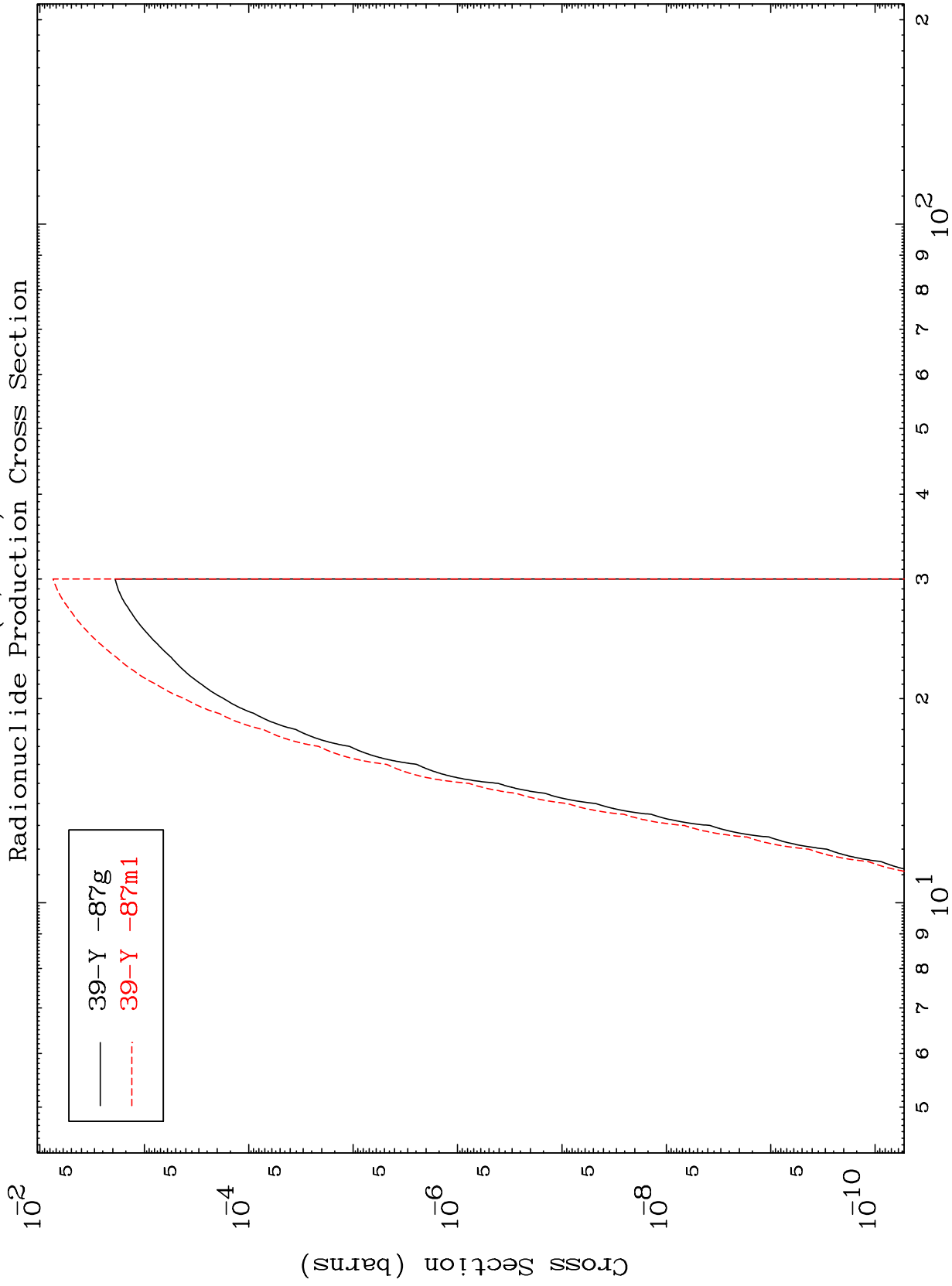
121

41-Nb-89

MAT 4113

(n, He-3)

41-Nb-89



122

Incident Energy (MeV)

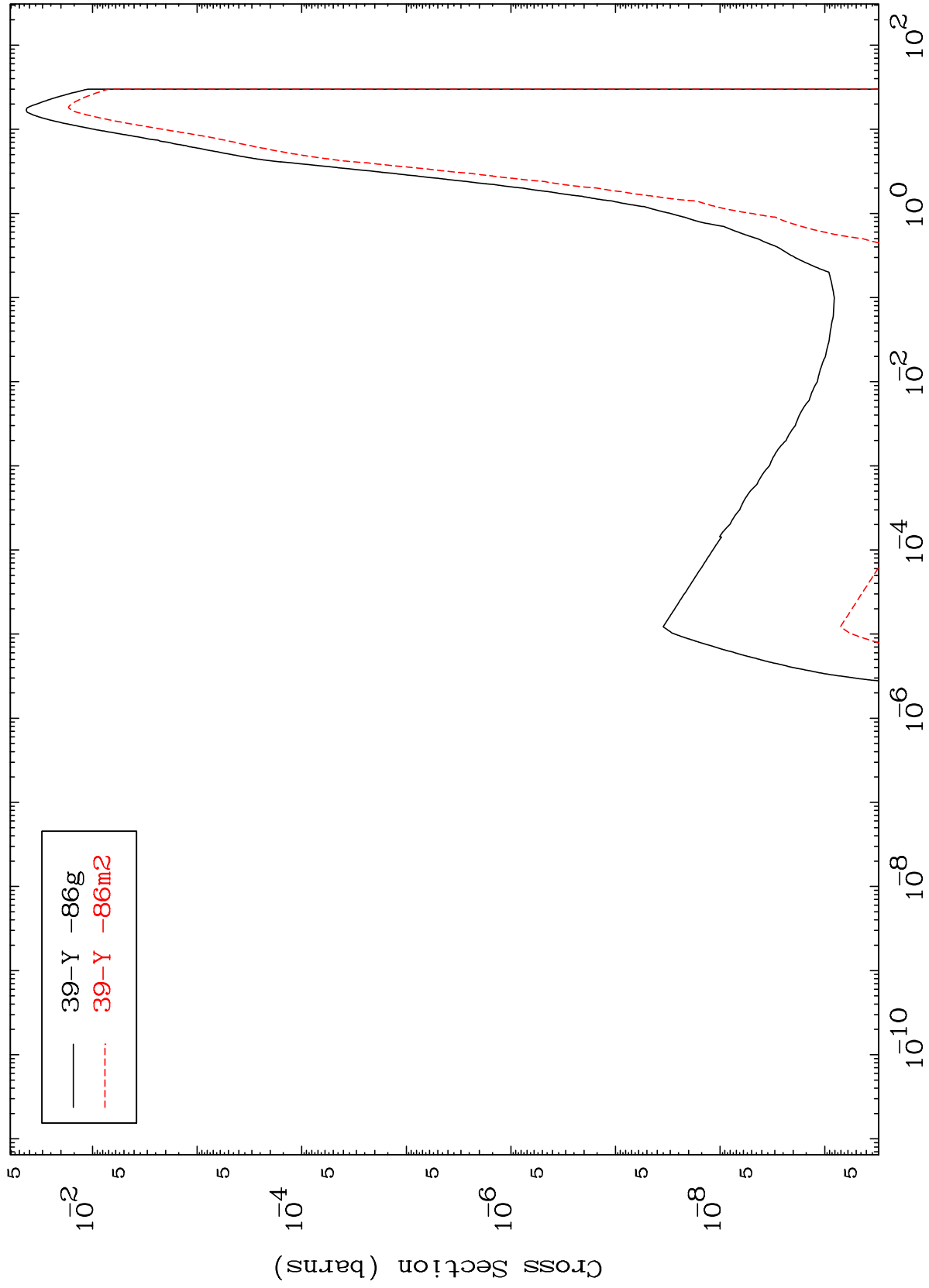
41-Nb-89

MAT 4113

(n,  $\alpha$ )

41-Nb-89

Radionuclide Production Cross Section

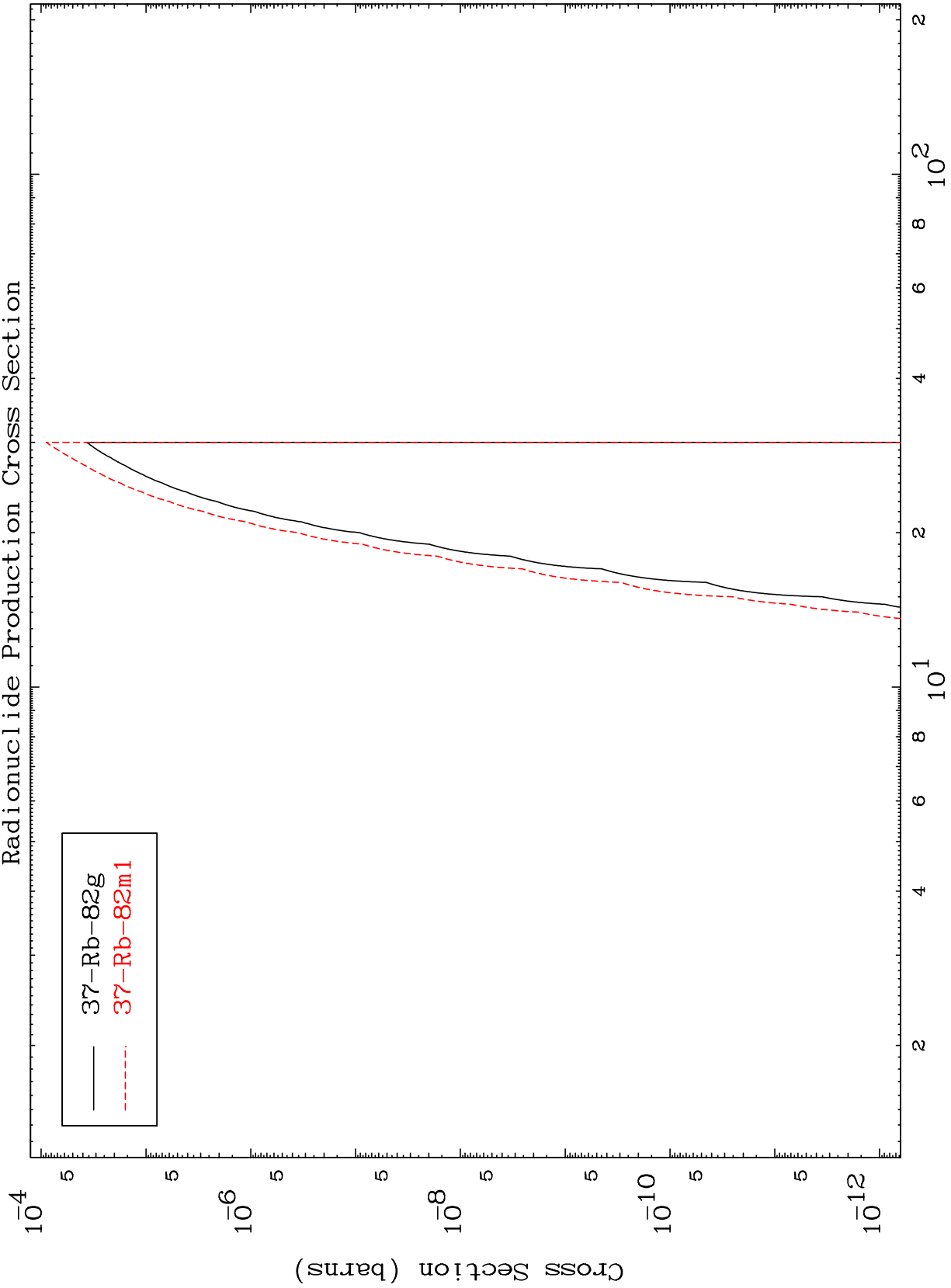


MAT 4113

(n,2α)

41-Nb-89

Radionuclide Production Cross Section



124

Incident Energy (MeV)

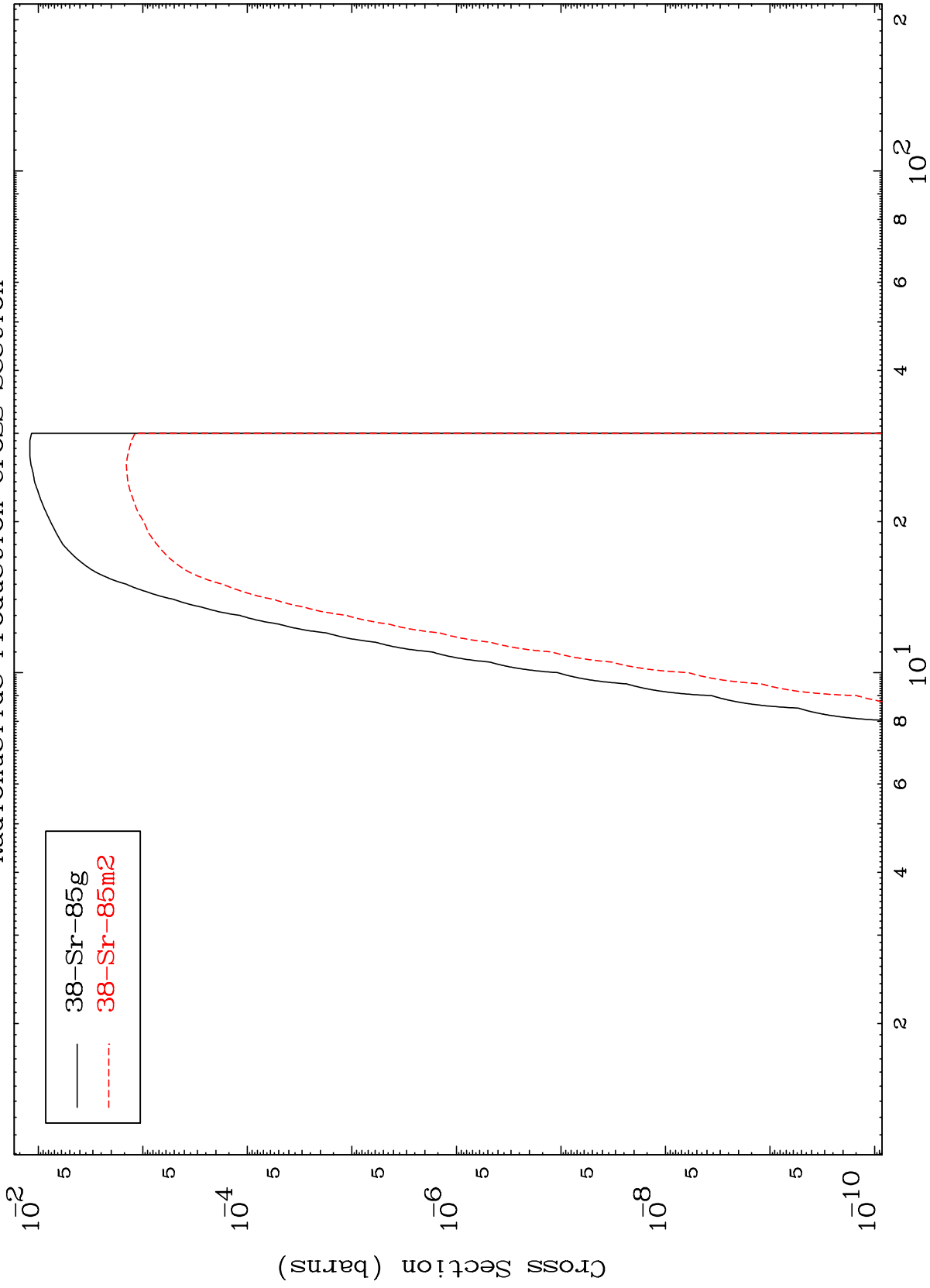
41-Nb-89

MAT 4113

(n,p)  $\alpha$

41-Nb-89

Radionuclide Production Cross Section



125

Incident Energy (MeV)

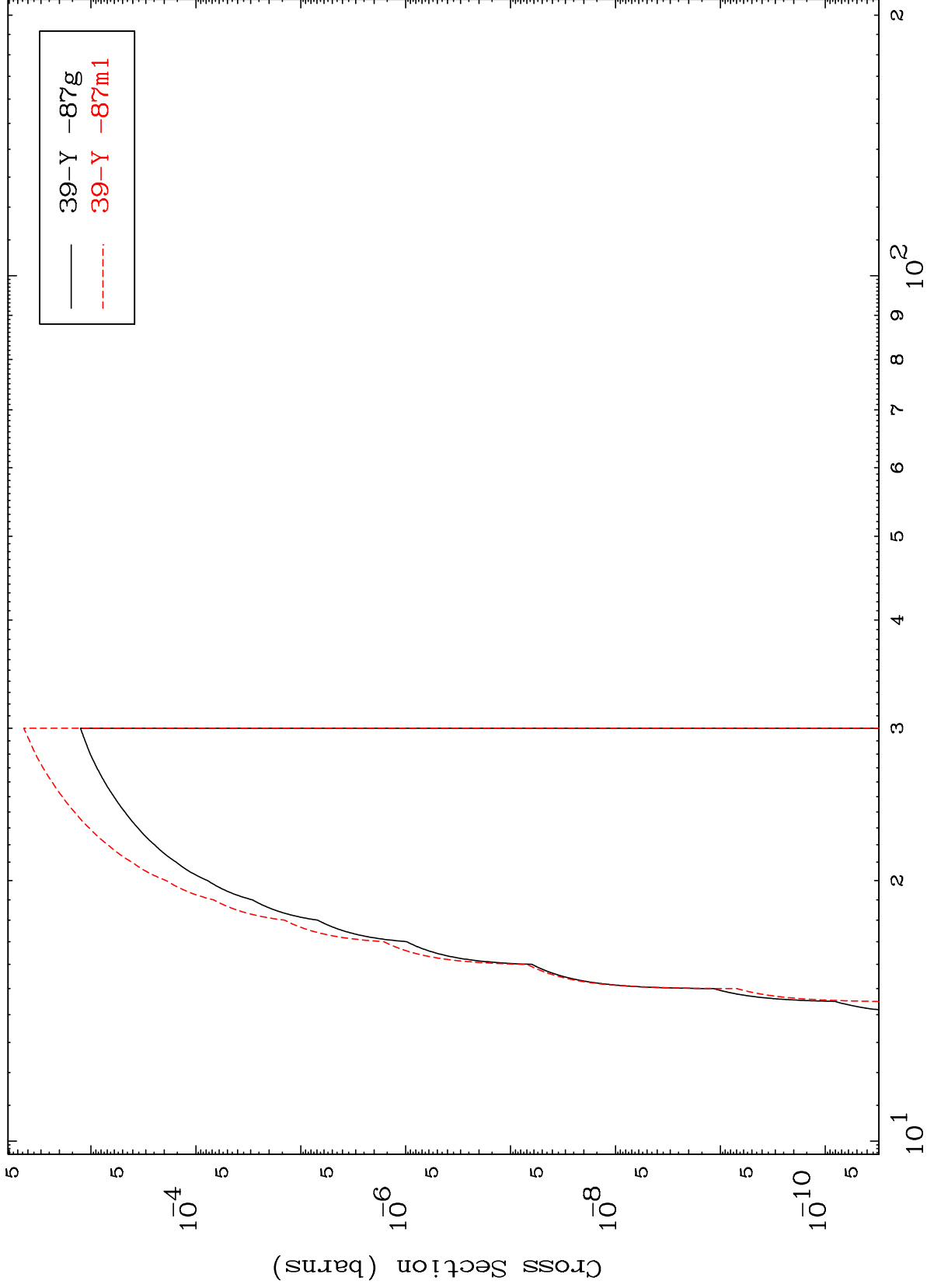
41-Nb-89

MAT 4113

(n,p) d

41-Nb-89

Radionuclide Production Cross Section



126

Incident Energy (MeV)

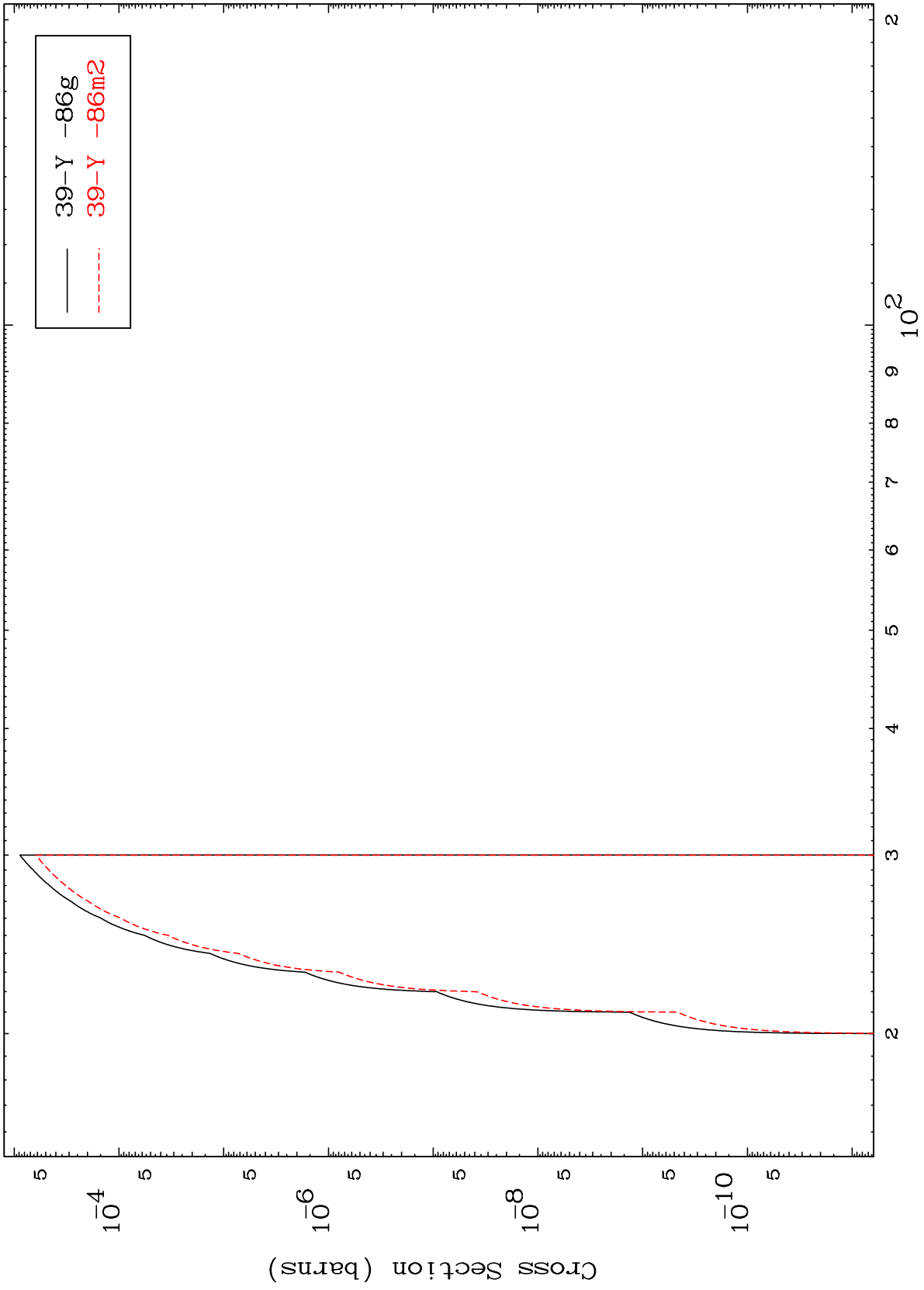
41-Nb-89

MAT 4113

(n,p) t

41-Nb-89

Radionuclide Production Cross Section



127

Incident Energy (MeV)

41-Nb-89