

Program EVALPLOT  
(Version 2018-1)

by

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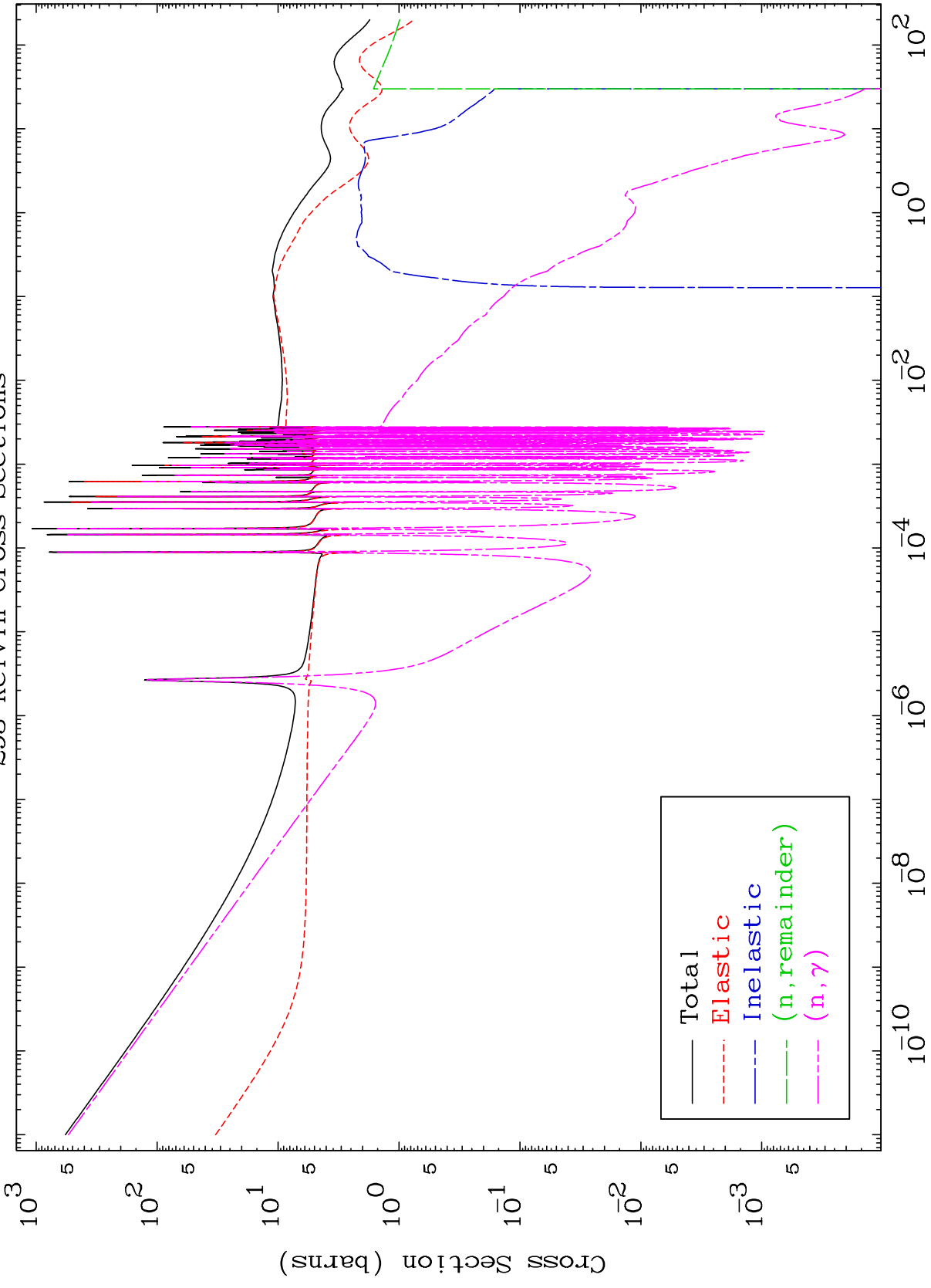
E.Mail:redcullen1@comcast.net  
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 4155

Major  
293 Kelvin Cross Sections

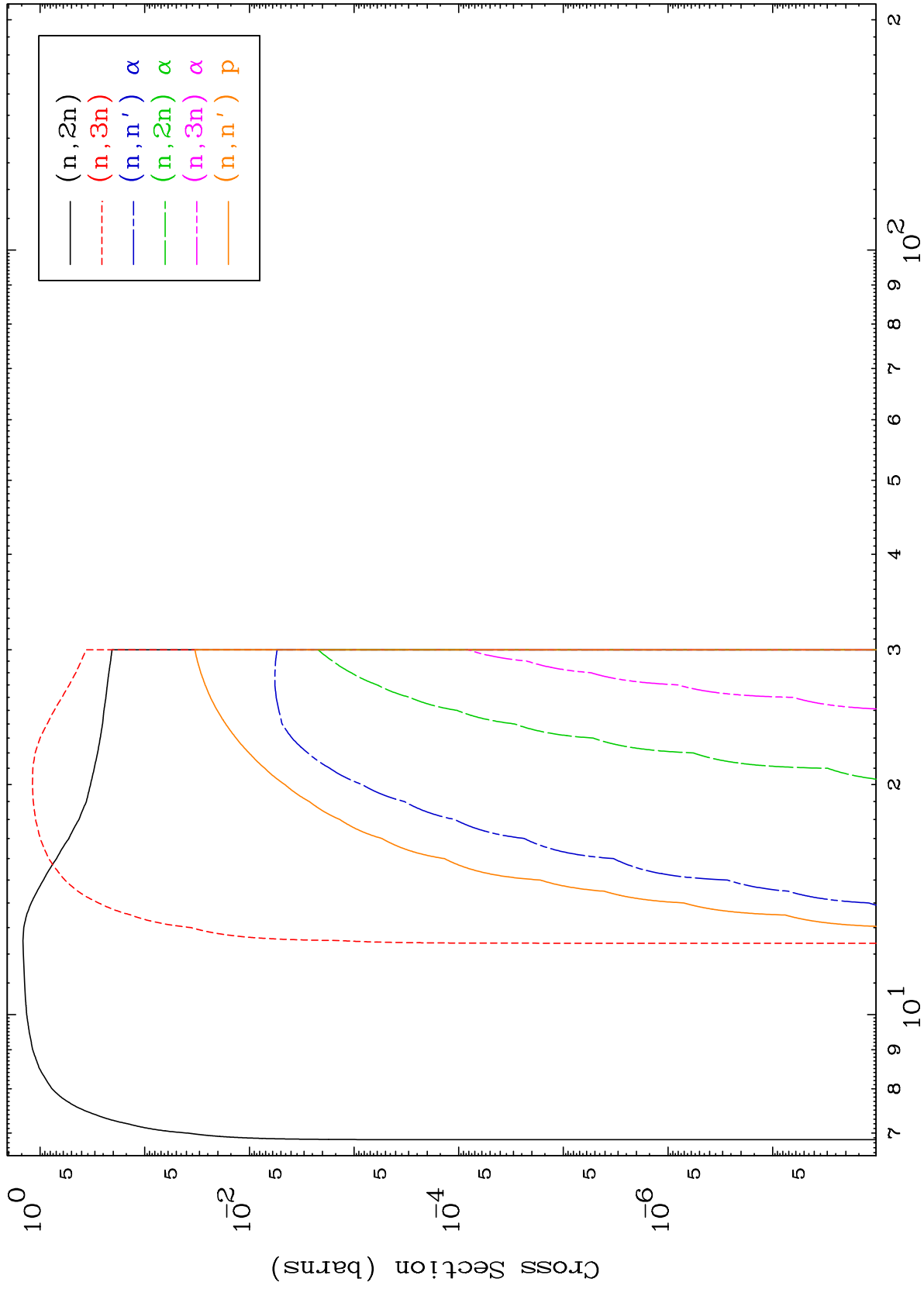
41-Nb-103



MAT 4155

Neutron Production  
293 Kelvin Cross Sections

41-Nb-103



2

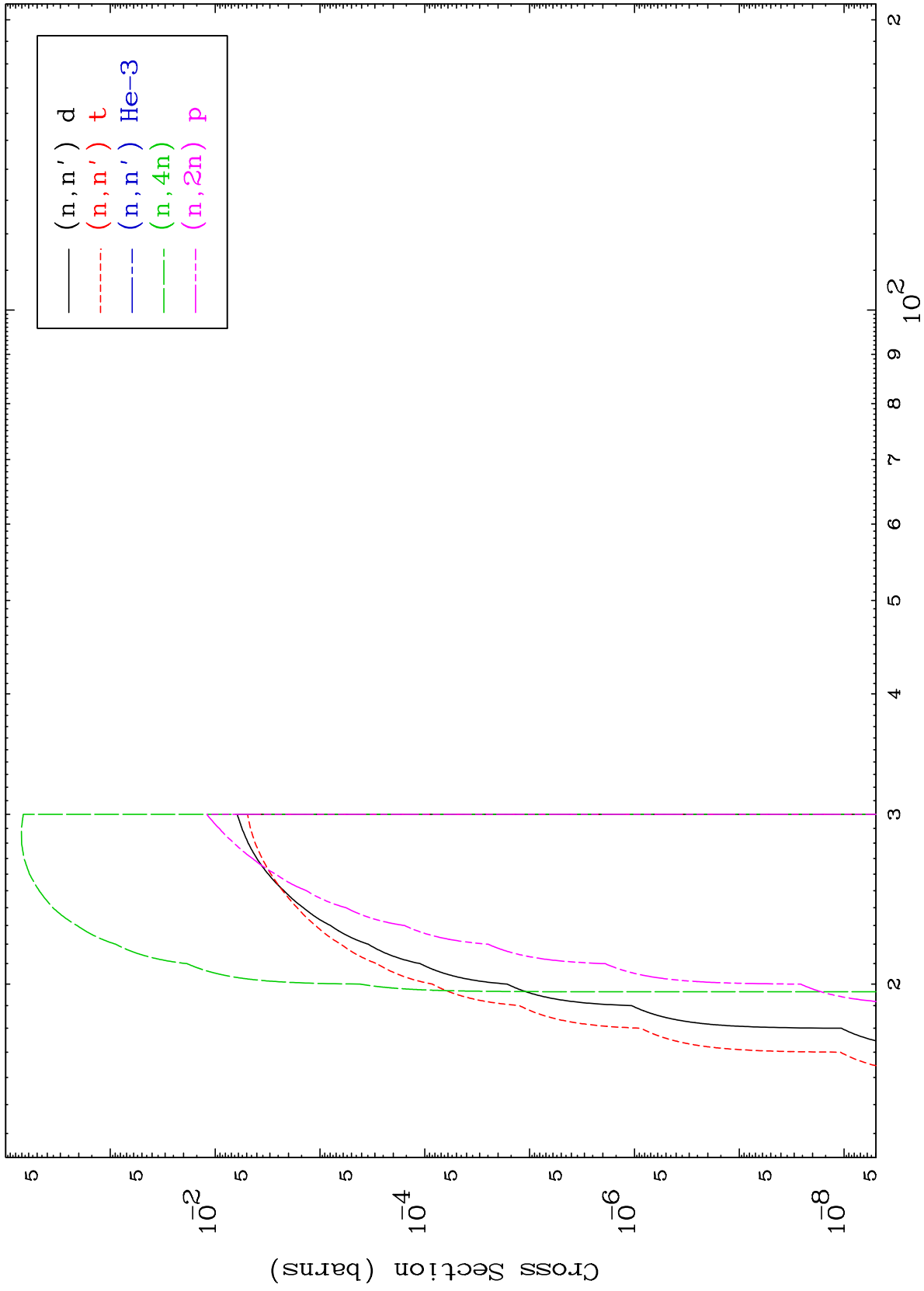
Incident Energy (MeV)

41-Nb-103

MAT 4155

Neutron Production  
293 Kelvin Cross Sections

41-Nb-103



3

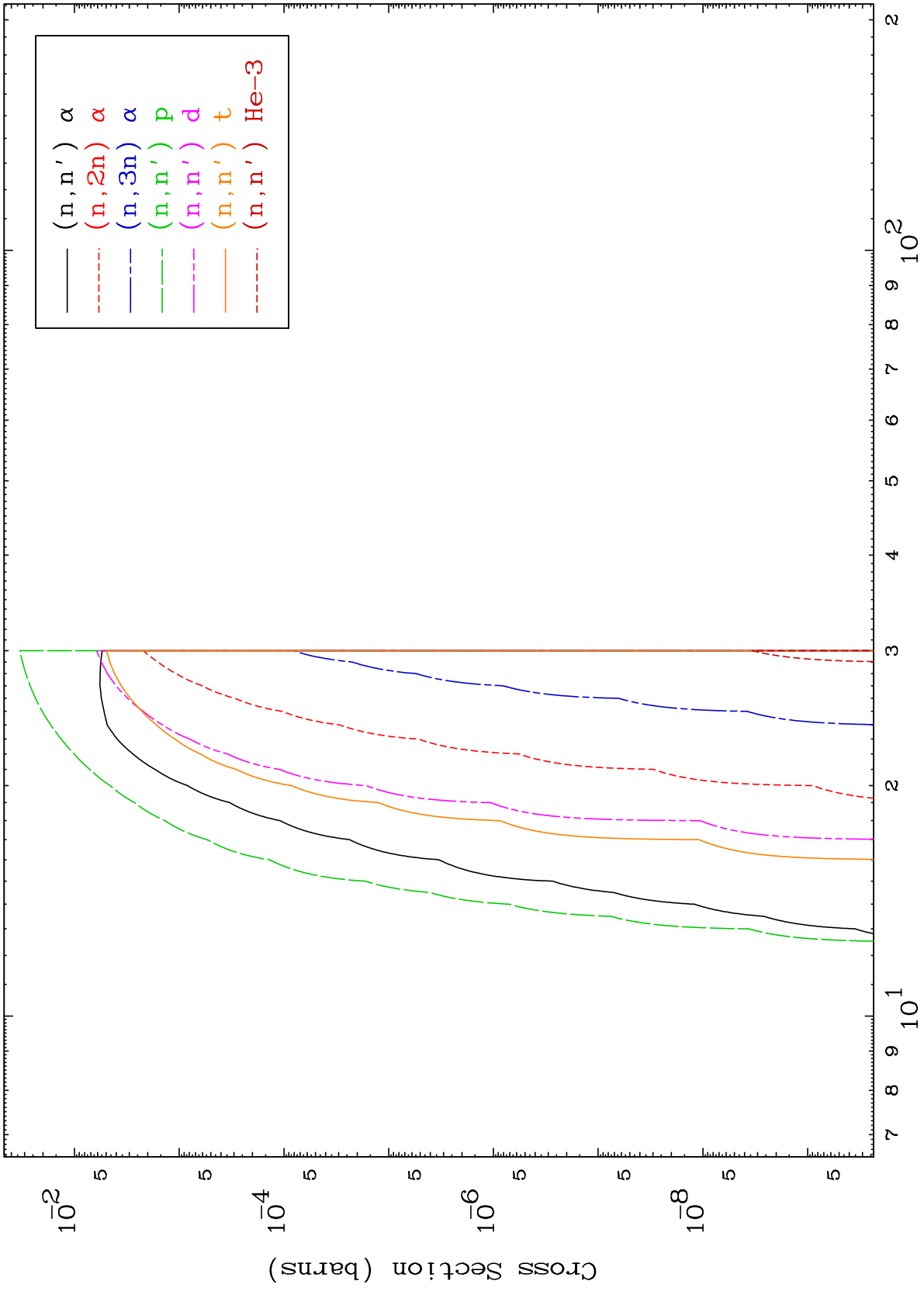
Incident Energy (MeV)

41-Nb-103

MAT 4155

Charged Particle  
293 Kelvin Cross Sections

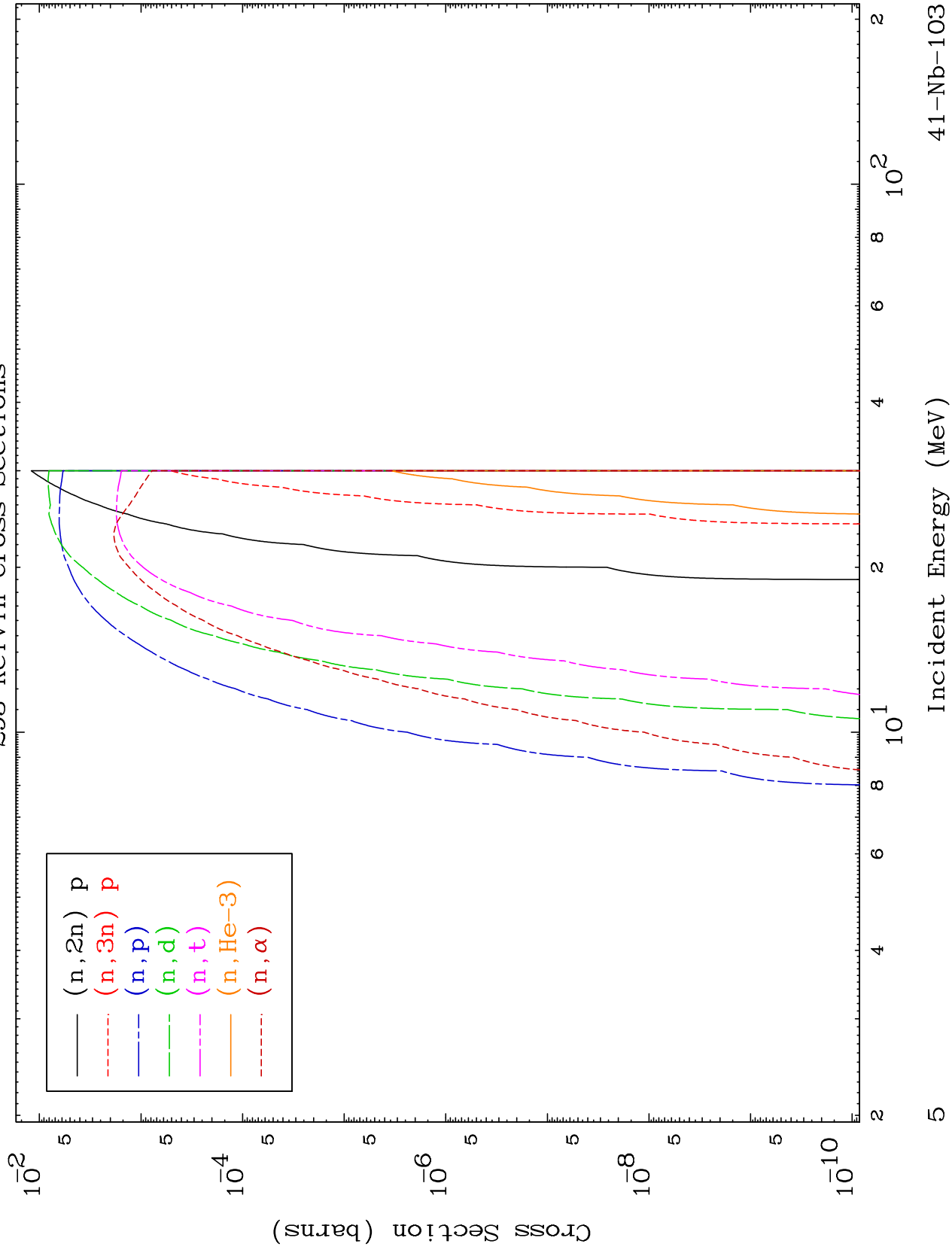
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MAT 4155

Charged Particle  
293 Kelvin Cross Sections

41-Nb-103



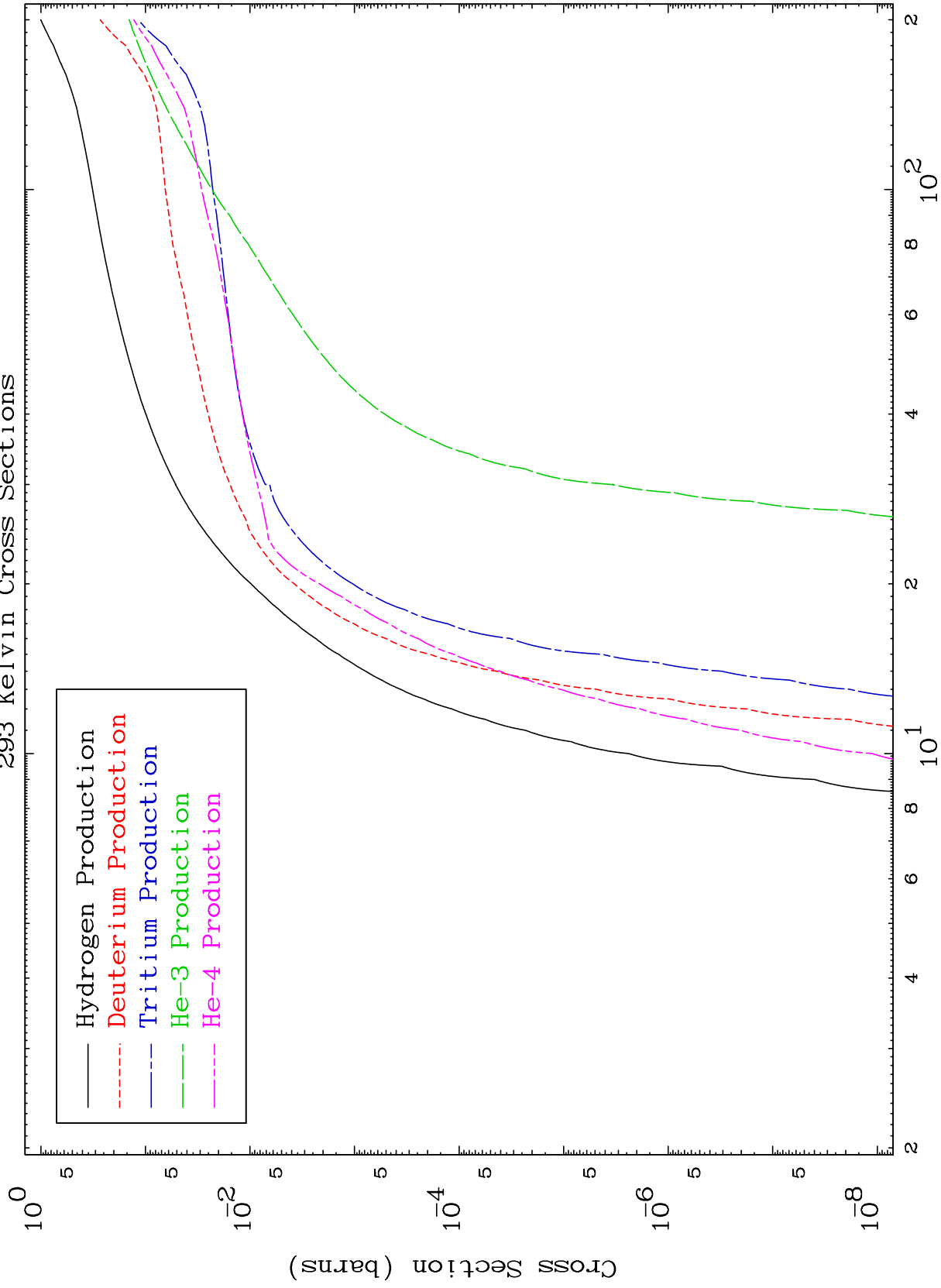
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41-Nb-103

MAT 4155

Particle Production  
293 Kelvin Cross Sections

41-Nb-103



6

Incident Energy (MeV)

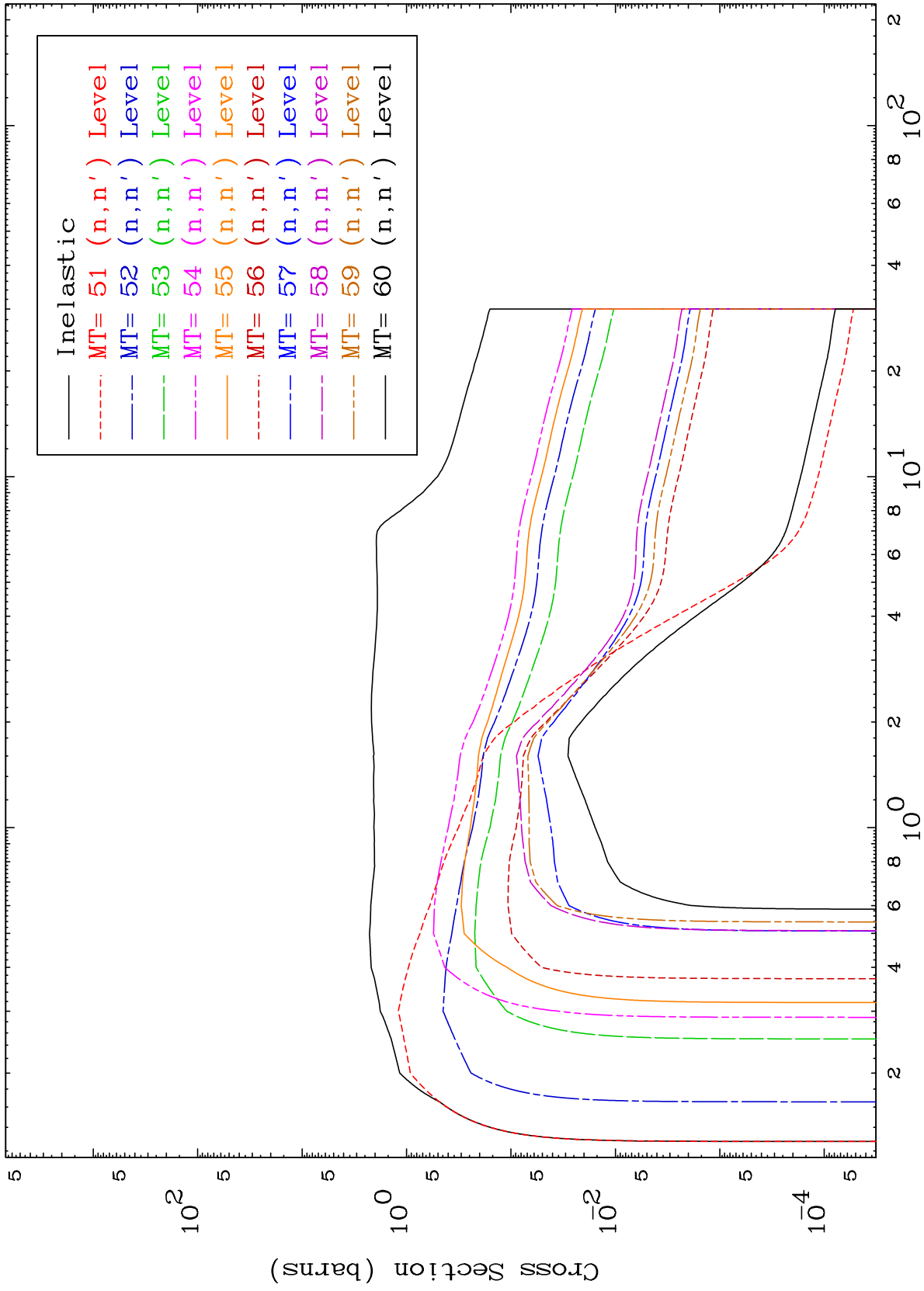
41-Nb-103

MAT 4155

(n,n') Level

41-Nb-103

293 Kelvin Cross Sections



7

Incident Energy (MeV)

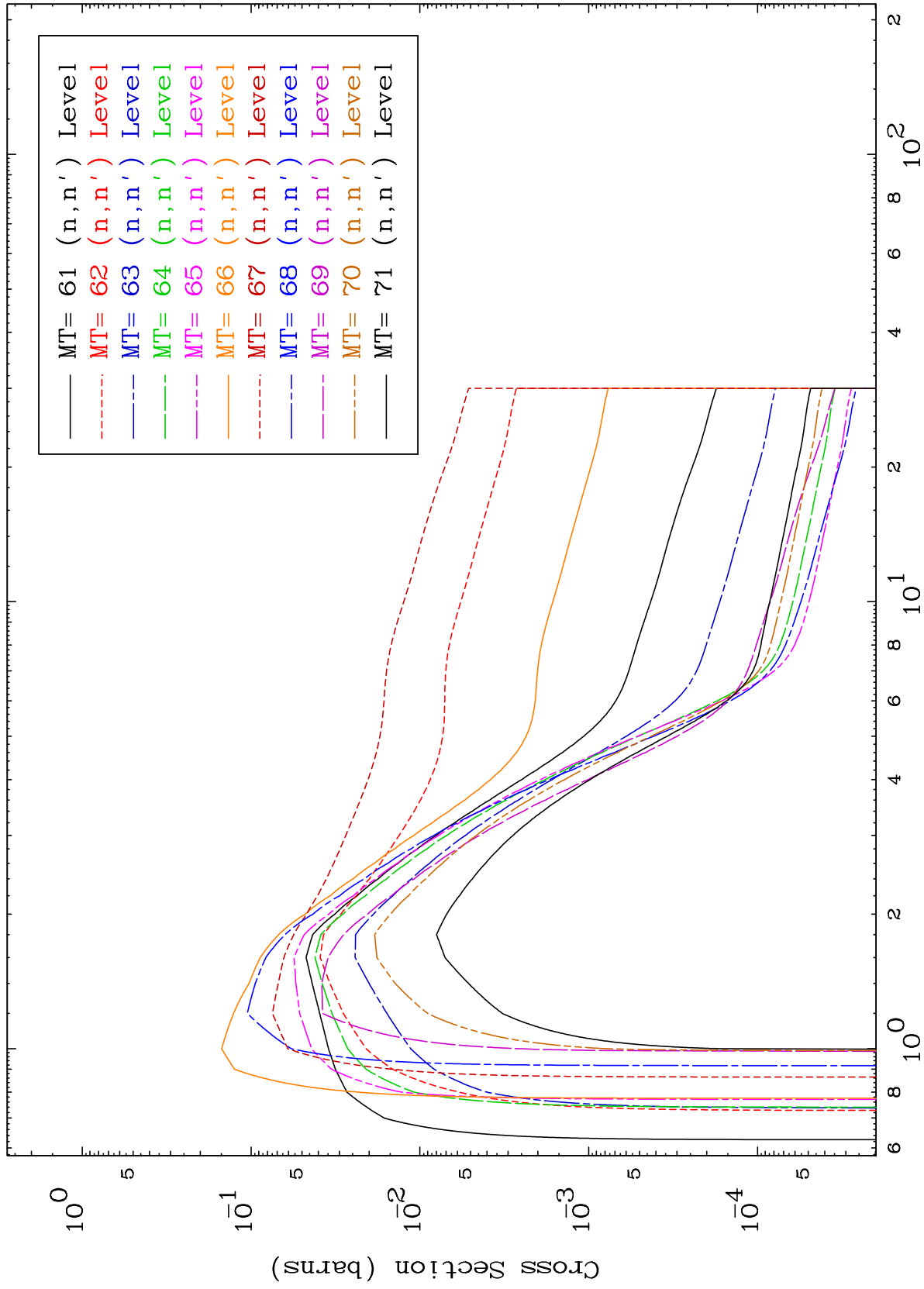
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MAT 4155

(n,n') Level

41-Nb-103

293 Kelvin Cross Sections



8

Incident Energy (MeV)

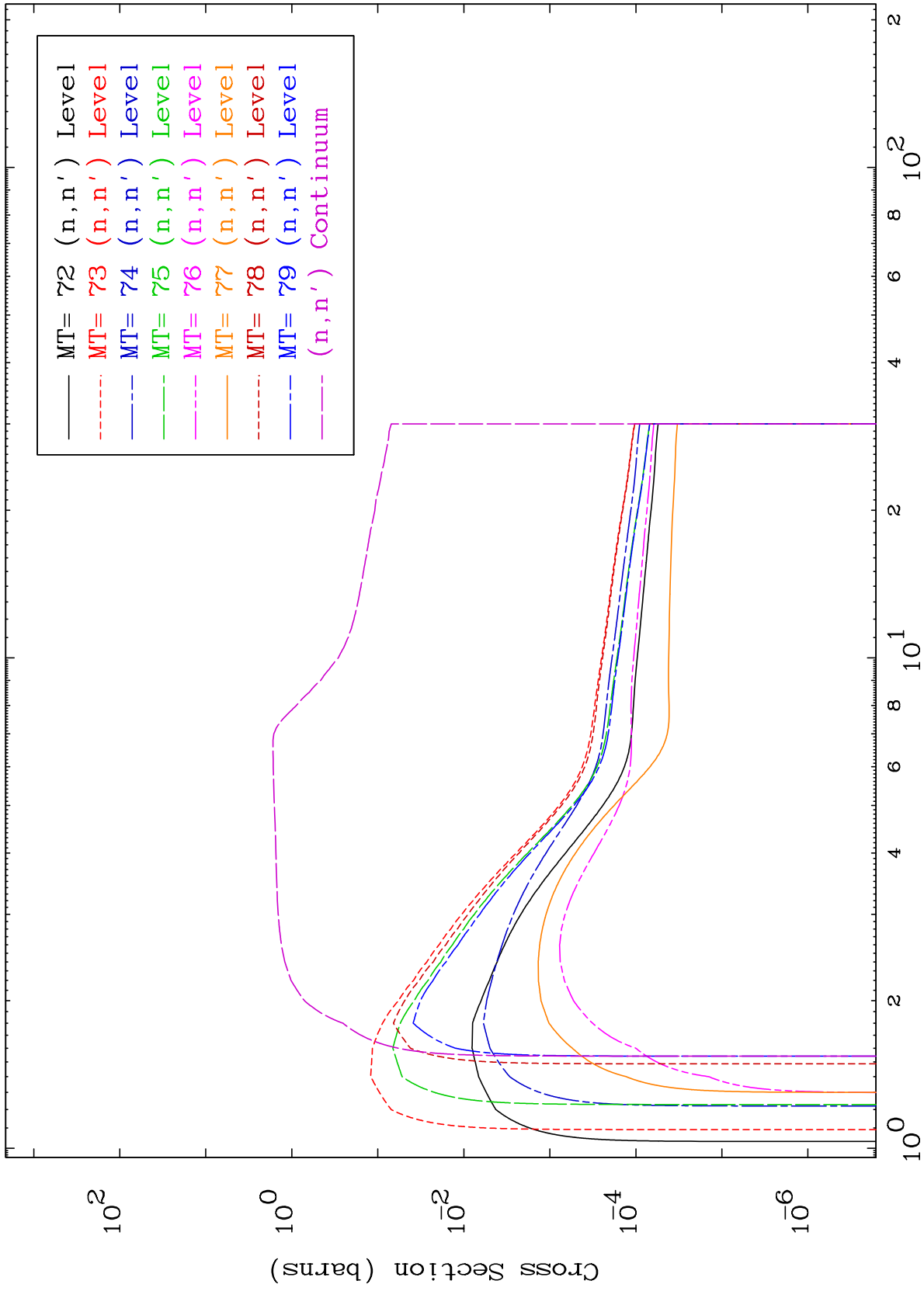
41-Nb-103

MAT 4155

(n,n') Level

41-Nb-103

293 Kelvin Cross Sections



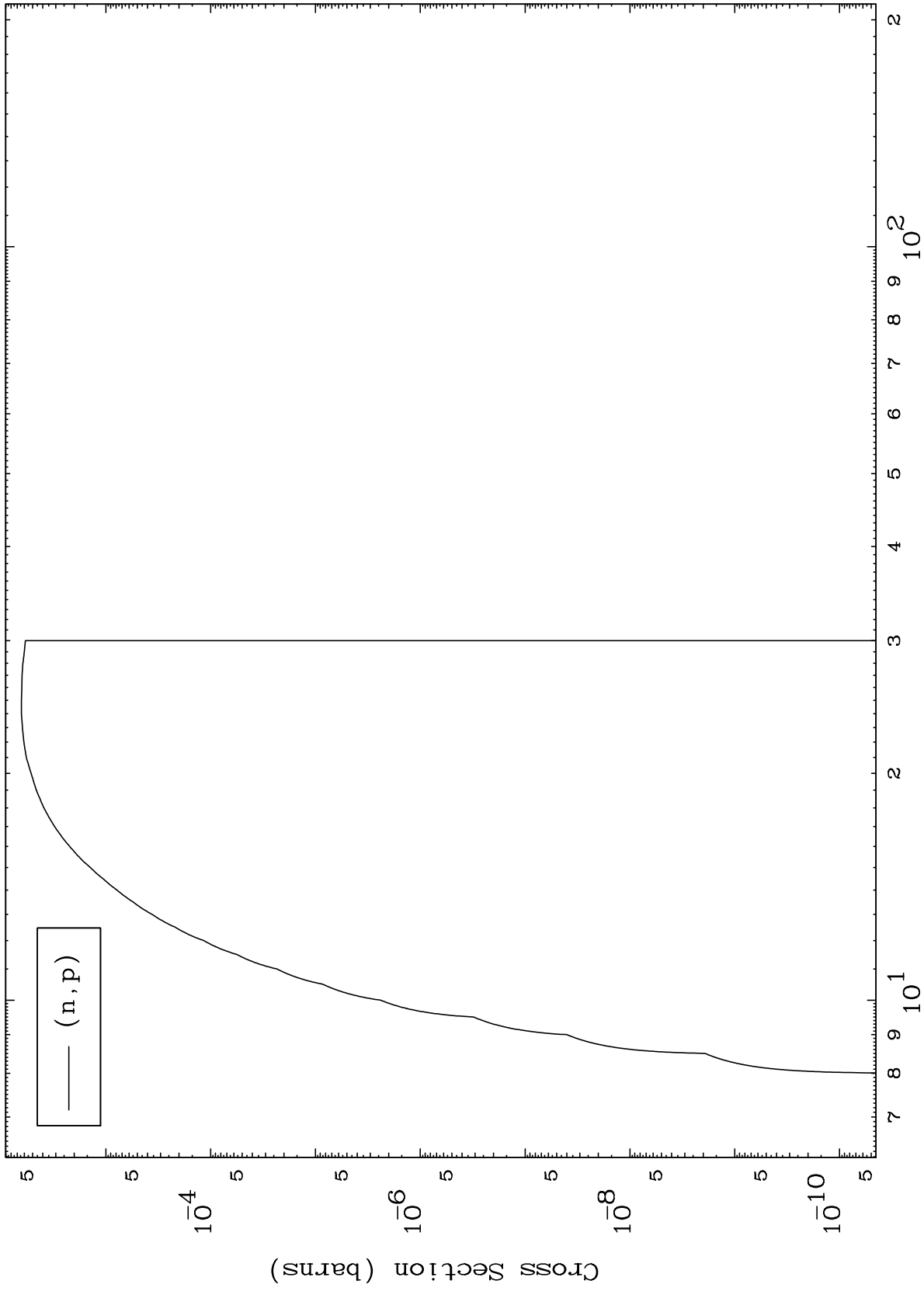
Incident Energy (MeV)

41-Nb-103

MAT 4155

(n,p) Levels  
293 Kelvin Cross Sections

41-Nb-103



10

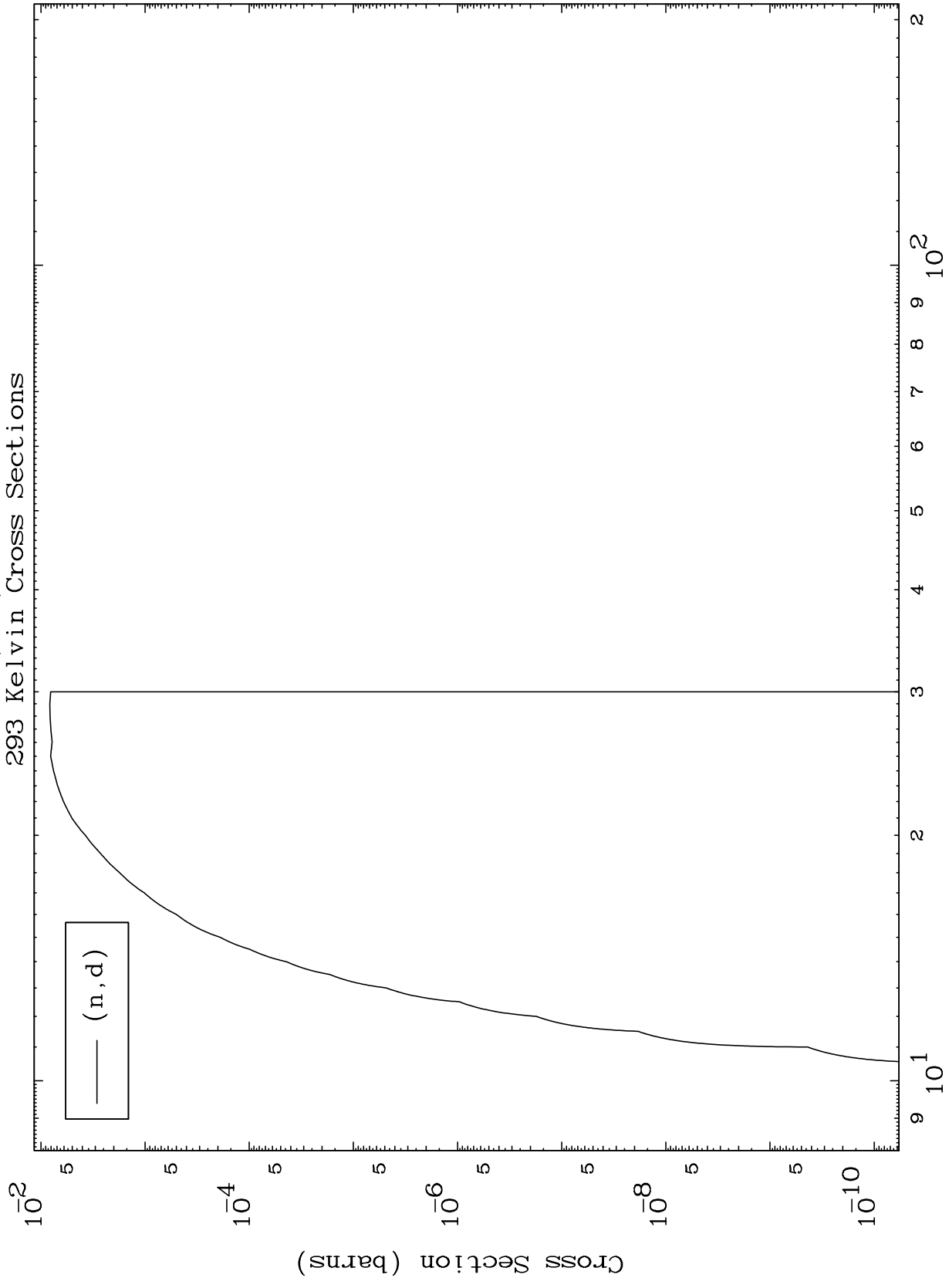
Incident Energy (MeV)

41-Nb-103

MAT 4155

(n,d) Levels  
293 Kelvin Cross Sections

41-Nb-103



11

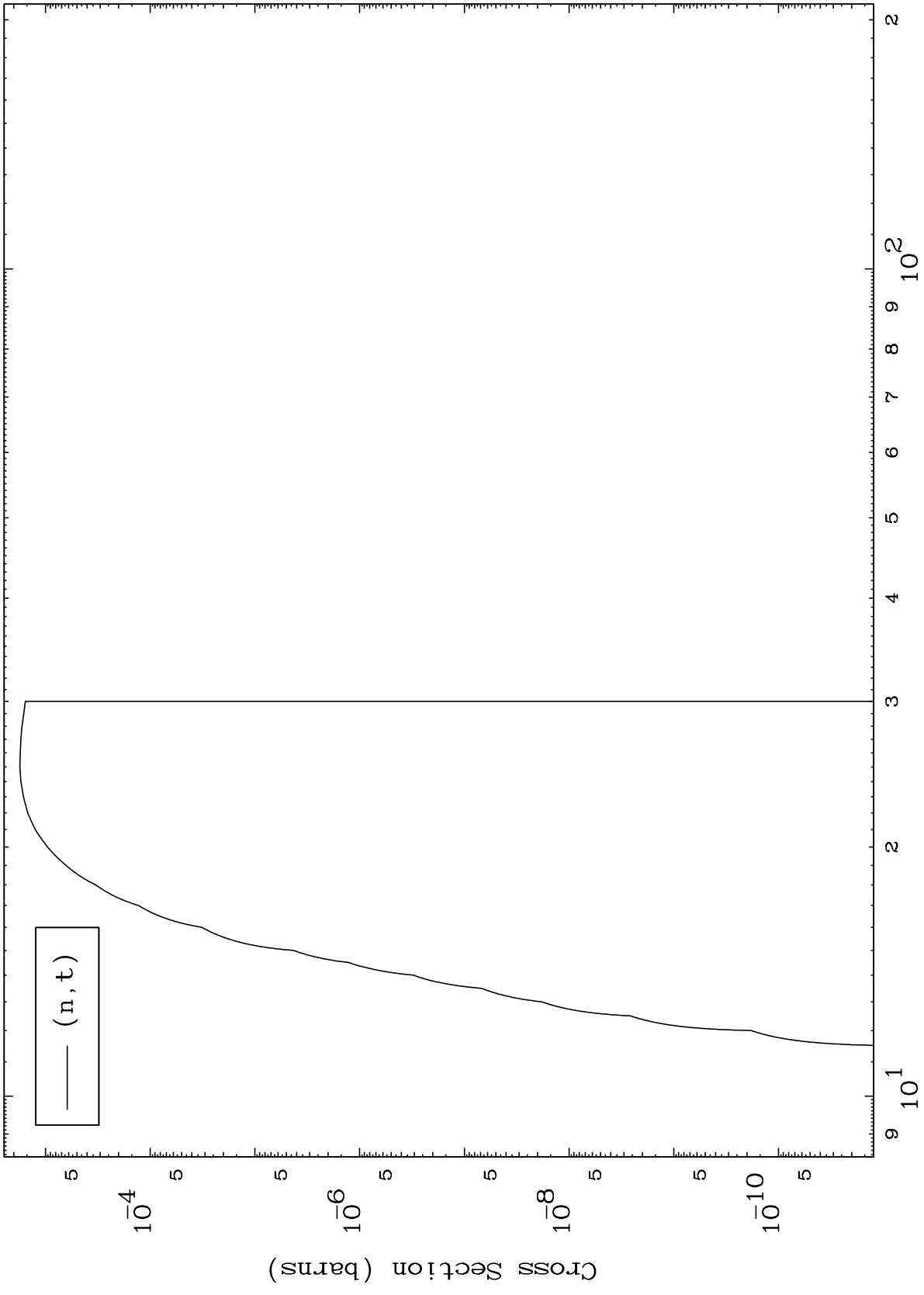
Incident Energy (MeV)

41-Nb-103

MAT 4155

(n,t) Levels  
293 Kelvin Cross Sections

41-Nb-103



12

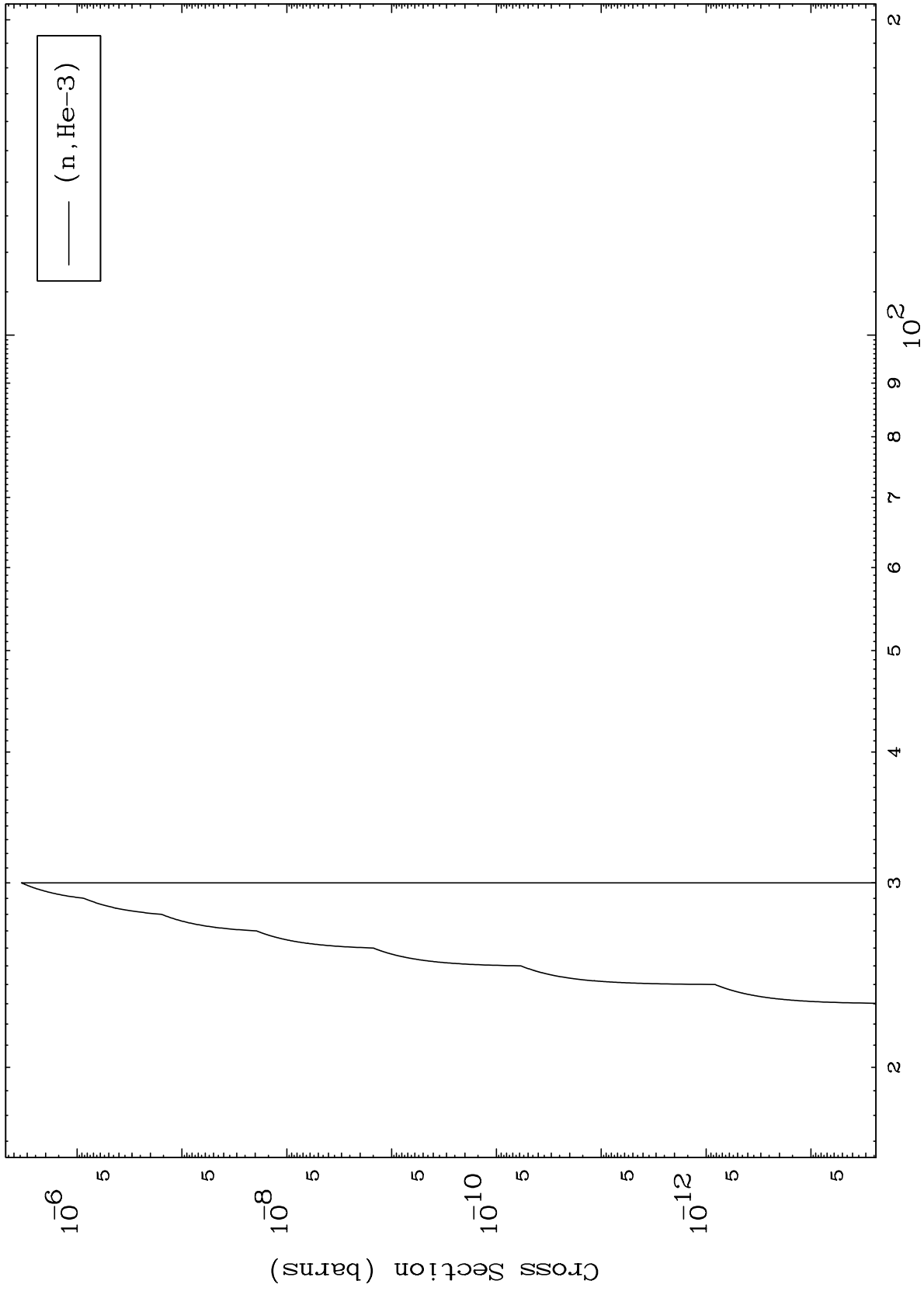
Incident Energy (MeV)

41-Nb-103

MAT 4155

(n,He3) Levels  
293 Kelvin Cross Sections

41-Nb-103



13

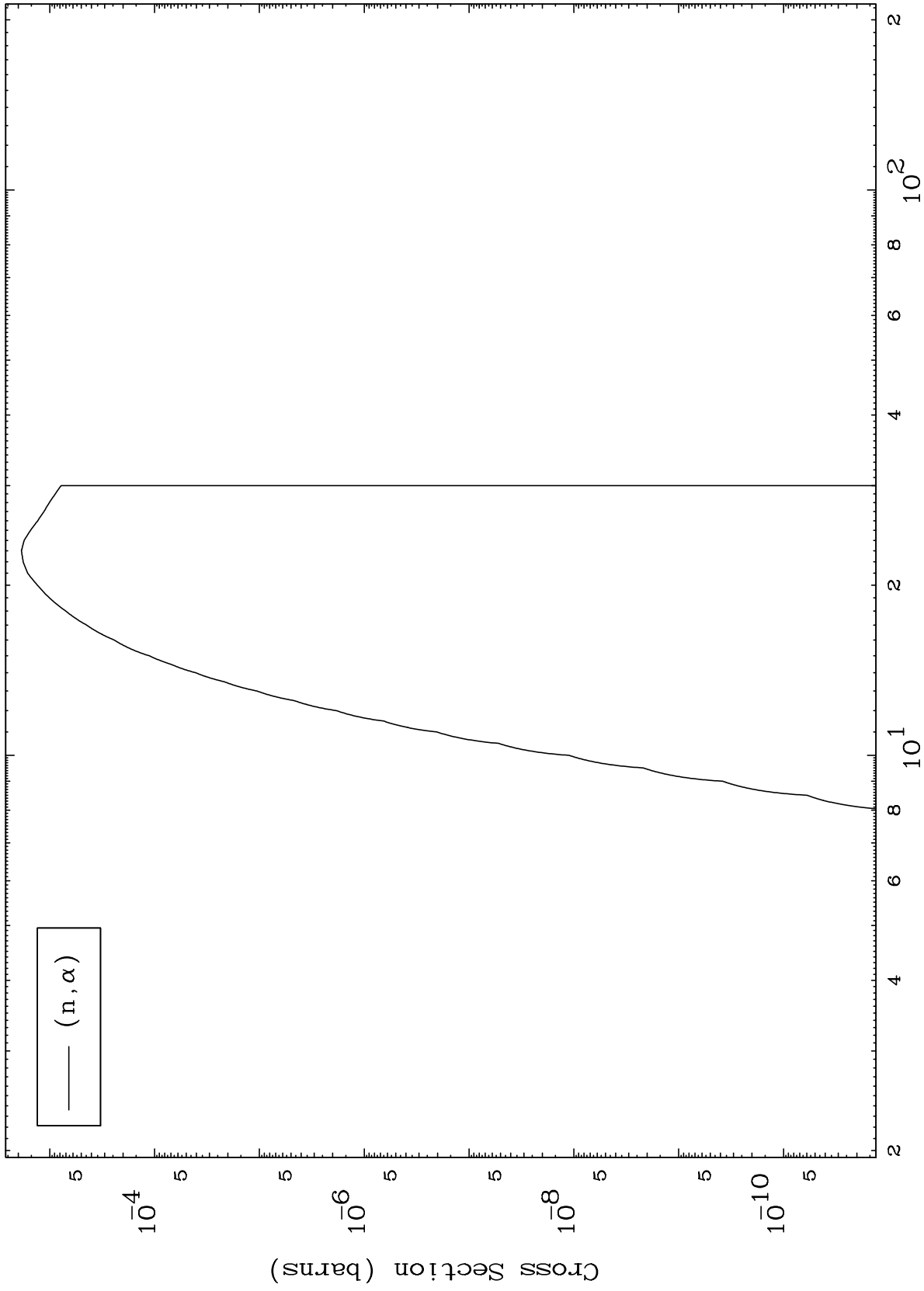
Incident Energy (MeV)

41-Nb-103

MAT 4155

(n,α) Levels  
293 Kelvin Cross Sections

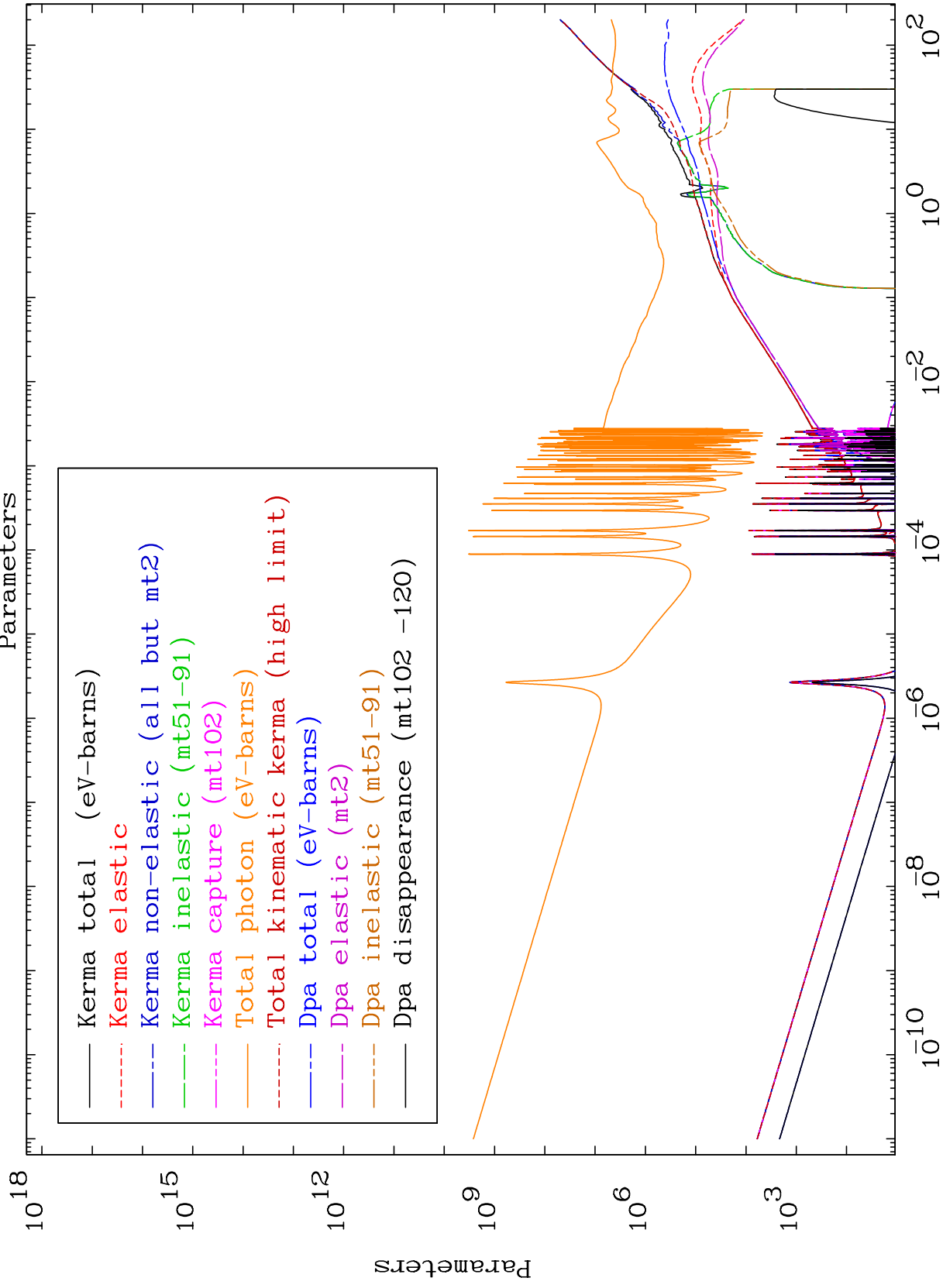
41-Nb-103



14

Incident Energy (MeV)

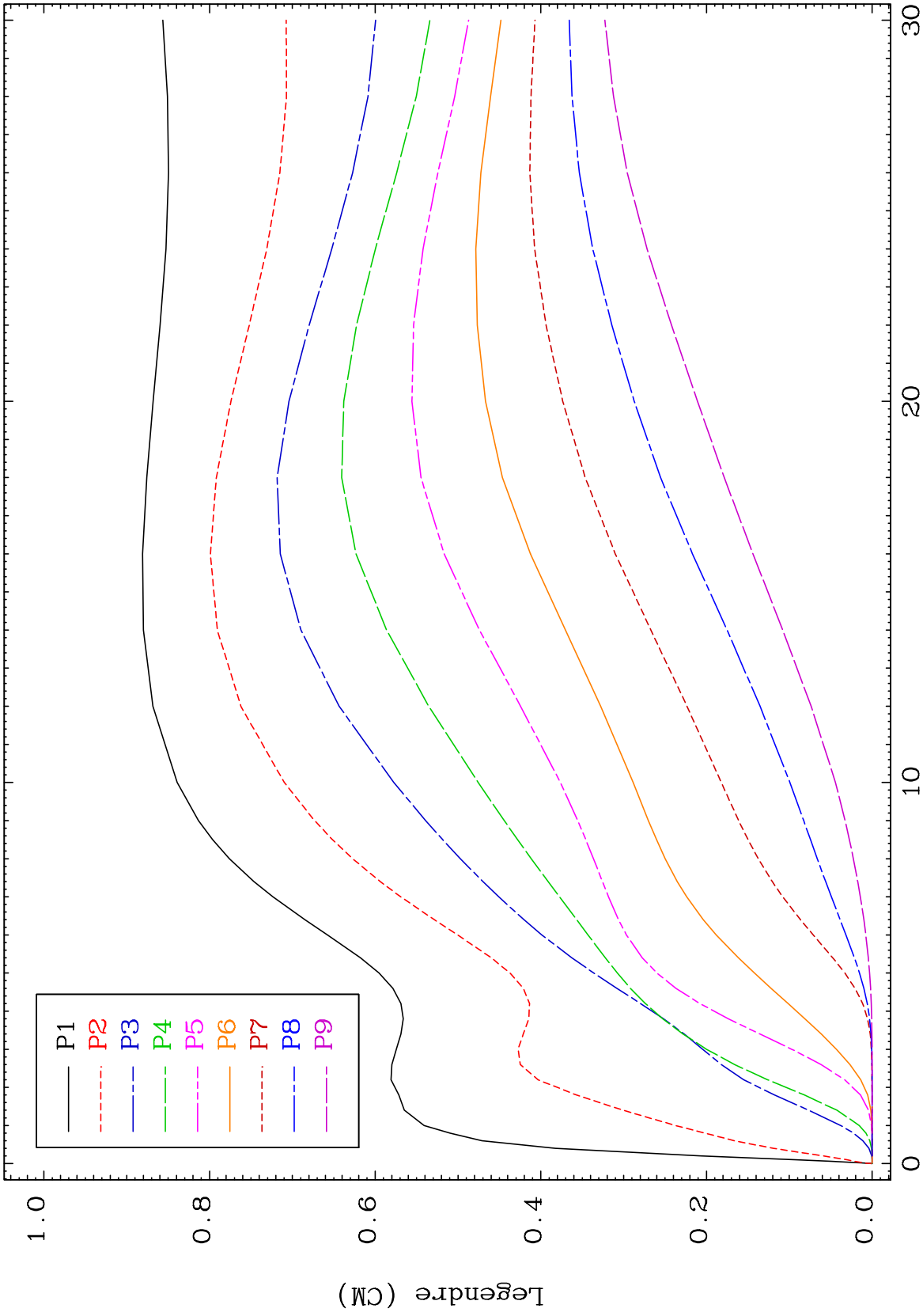
41-Nb-103



MAT 4155

Elastic Legendre Coefficients

41-Nb-103



16

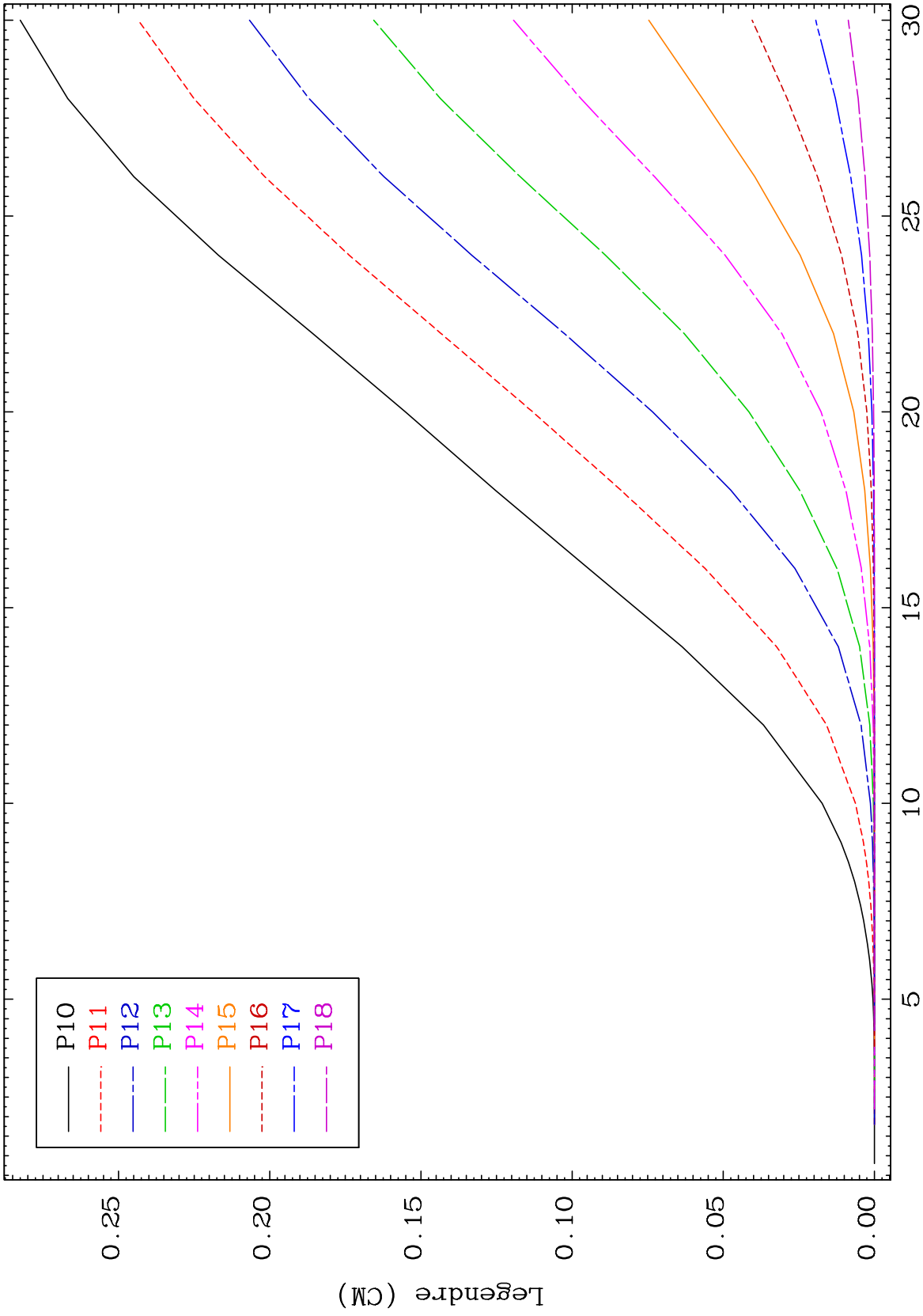
Incident Energy (MeV)

41-Nb-103

MAT 4155

Elastic Legendre Coefficients

41-Nb-103



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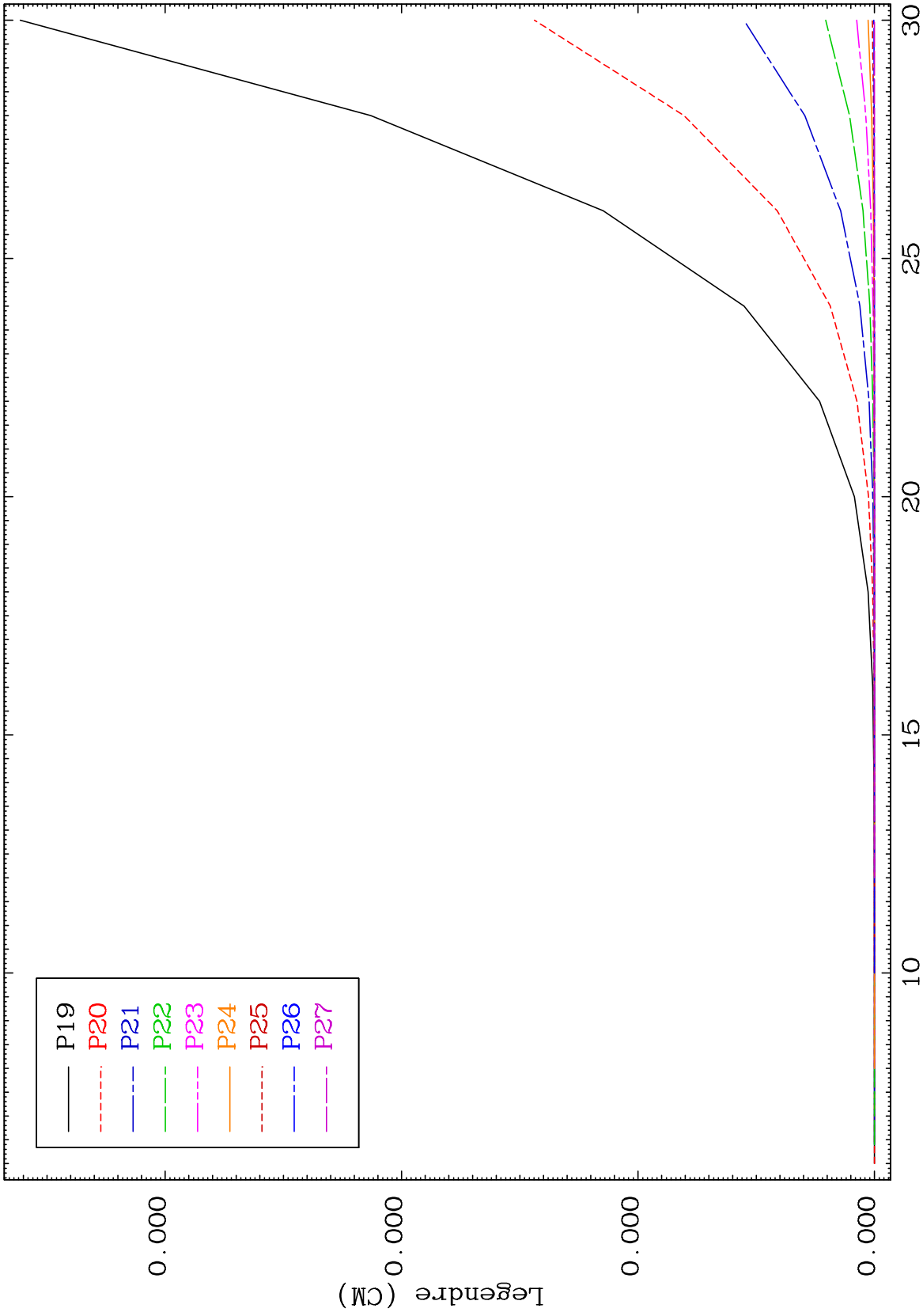
Incident Energy (MeV)

41-Nb-103

MAT 4155

### Elastic Legendre Coefficients

41-Nb-103



18

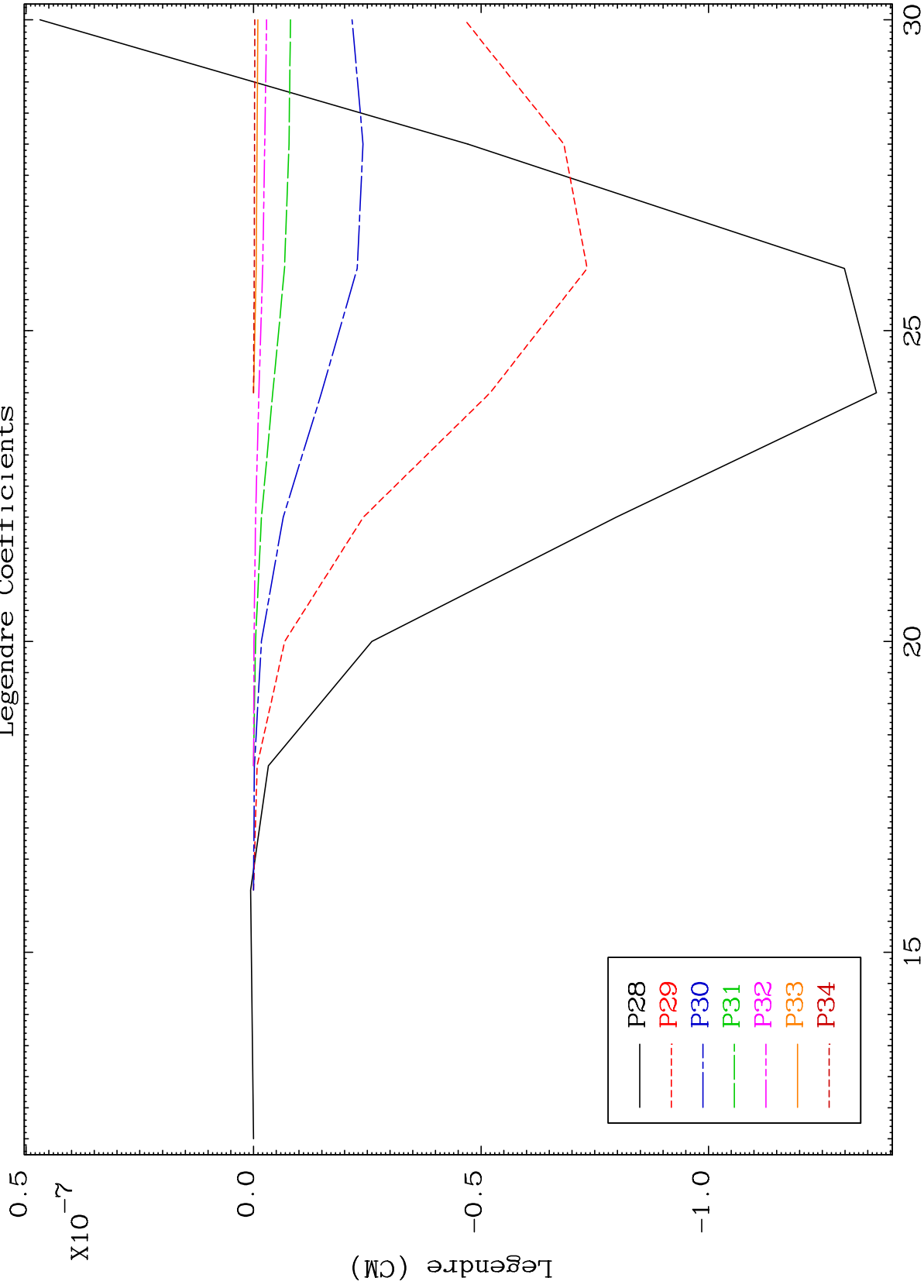
Incident Energy (MeV)

41-Nb-103

MAT 4155

Elastic Legendre Coefficients

41-Nb-103



19

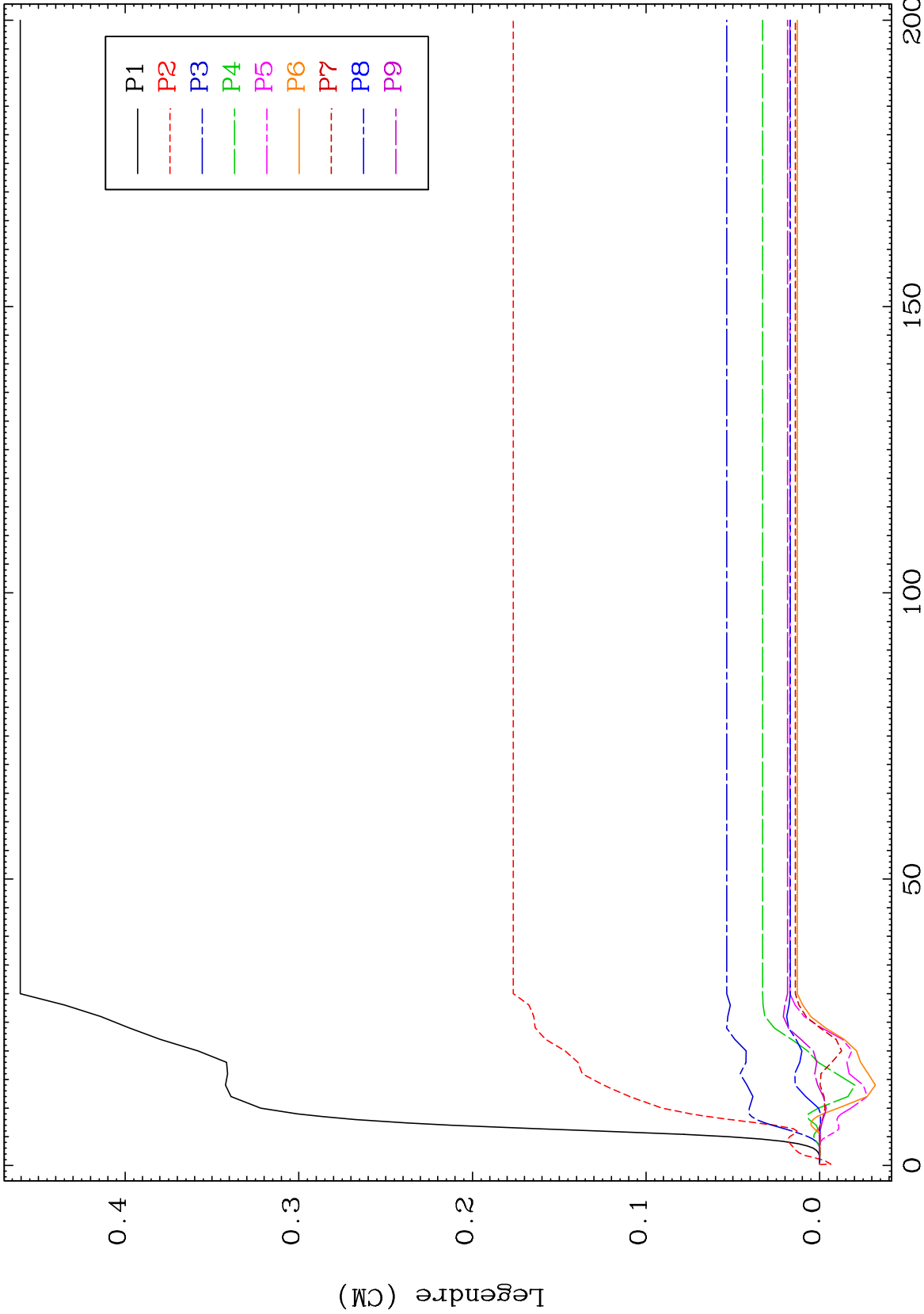
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



20

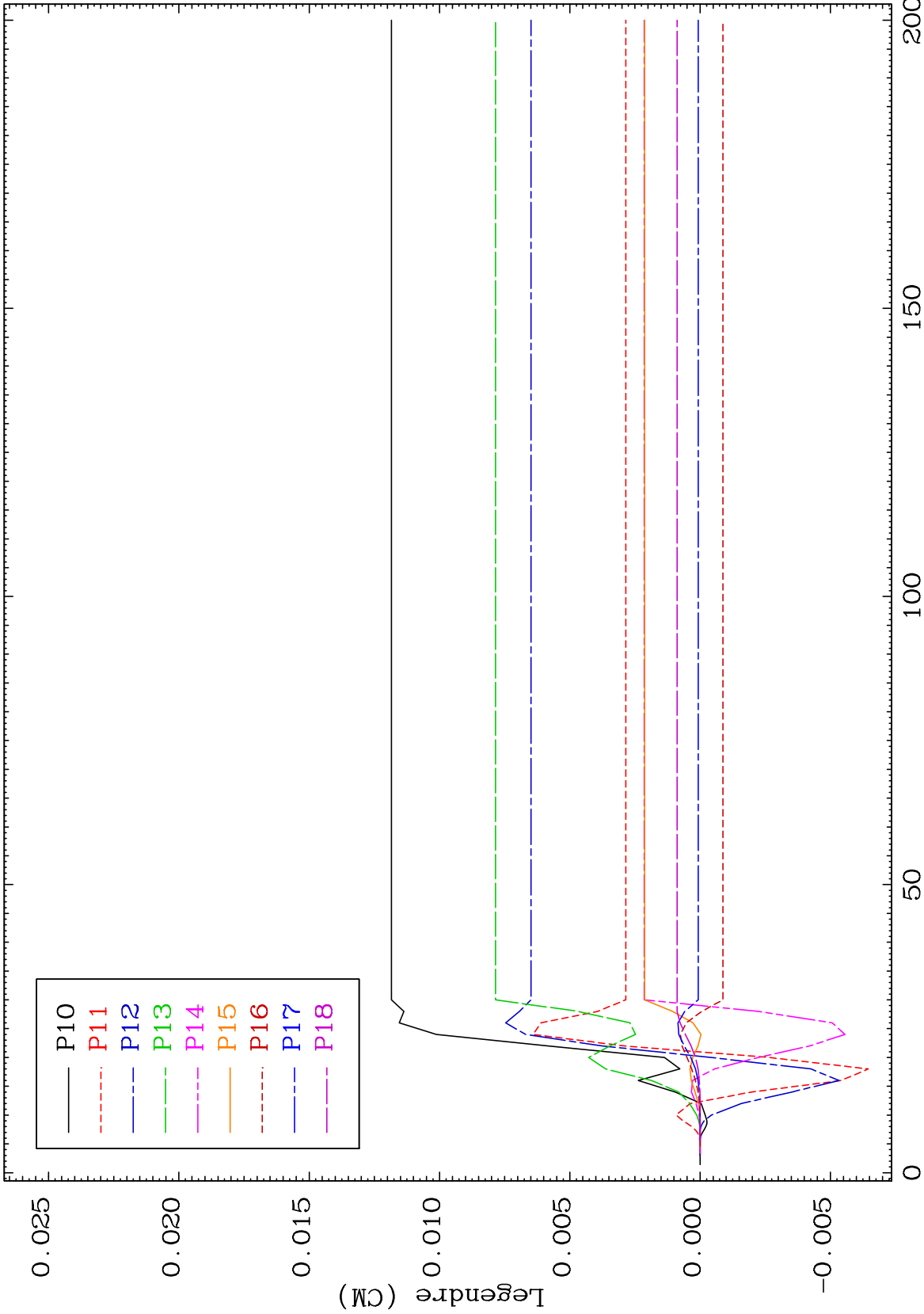
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



21

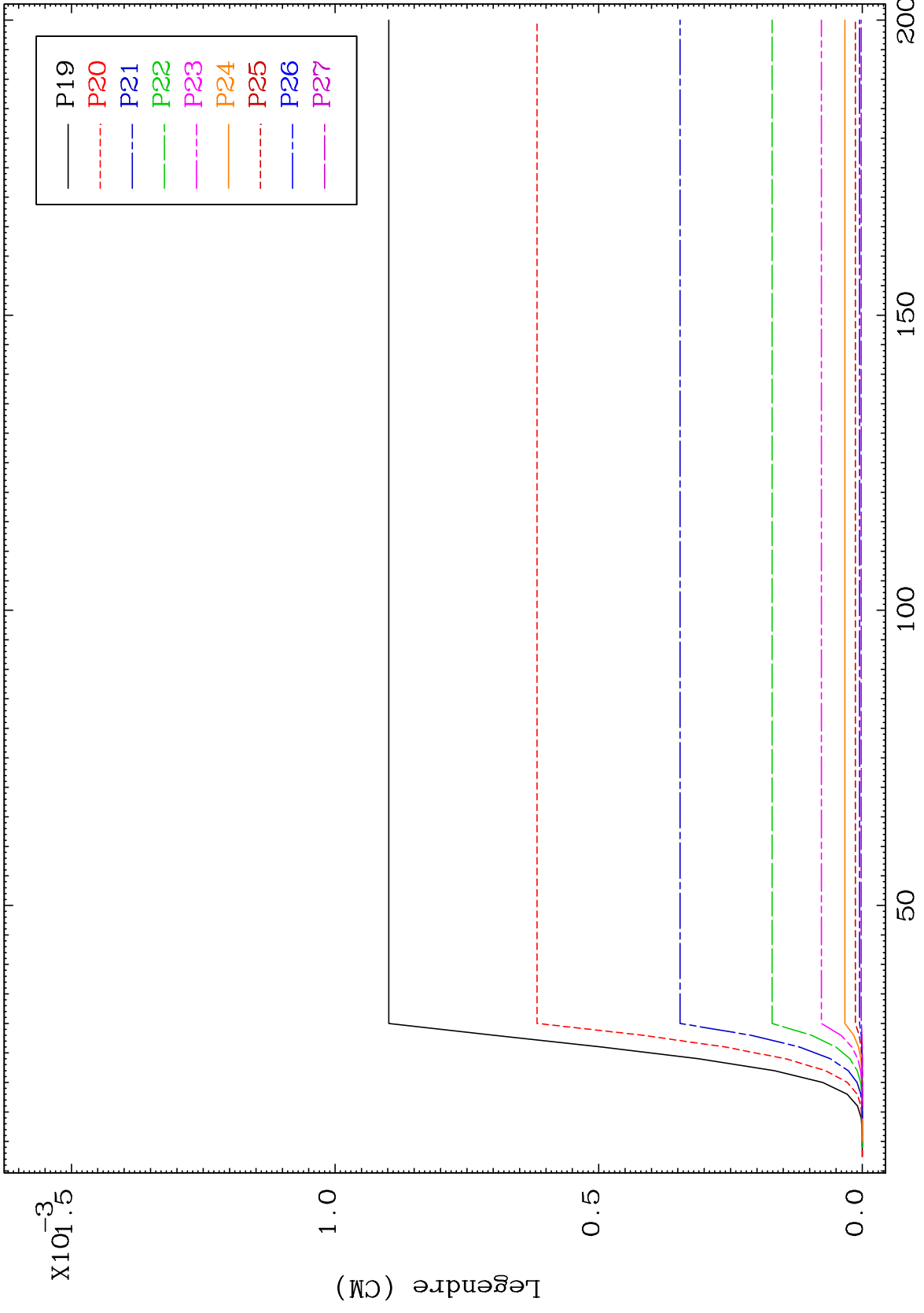
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



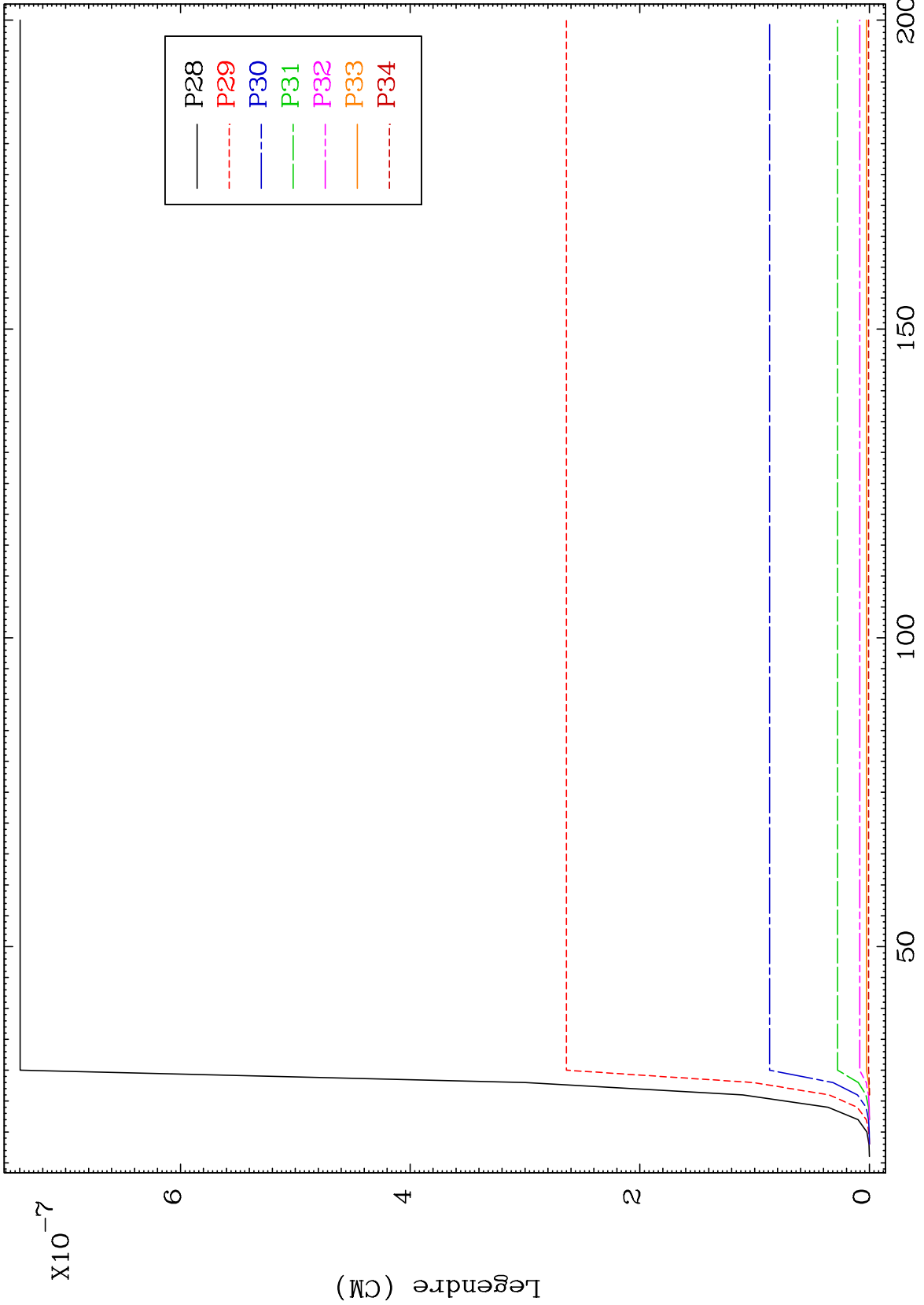
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41-Nb-103

MAT 4155

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

41-Nb-103



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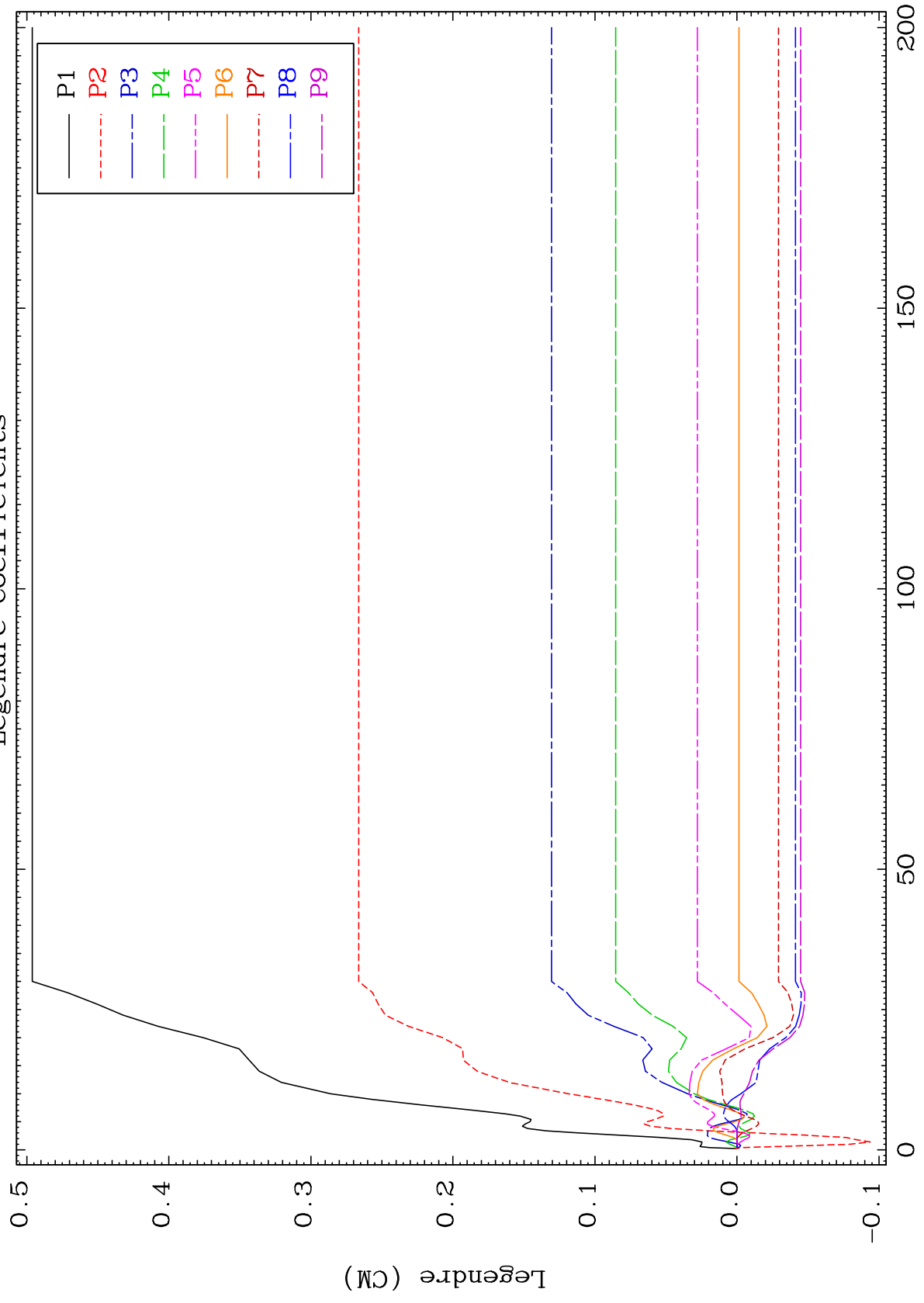
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



24

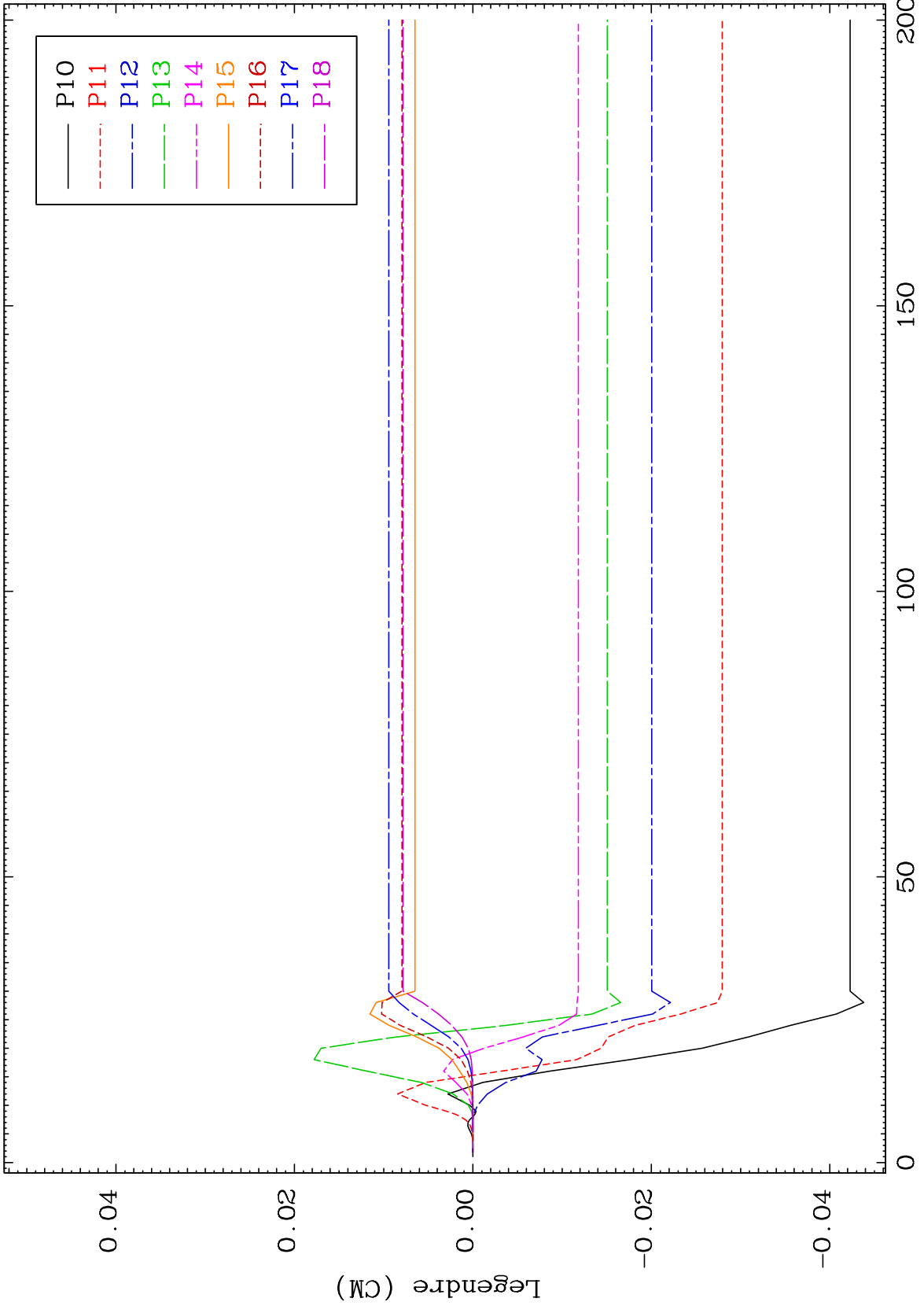
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



25

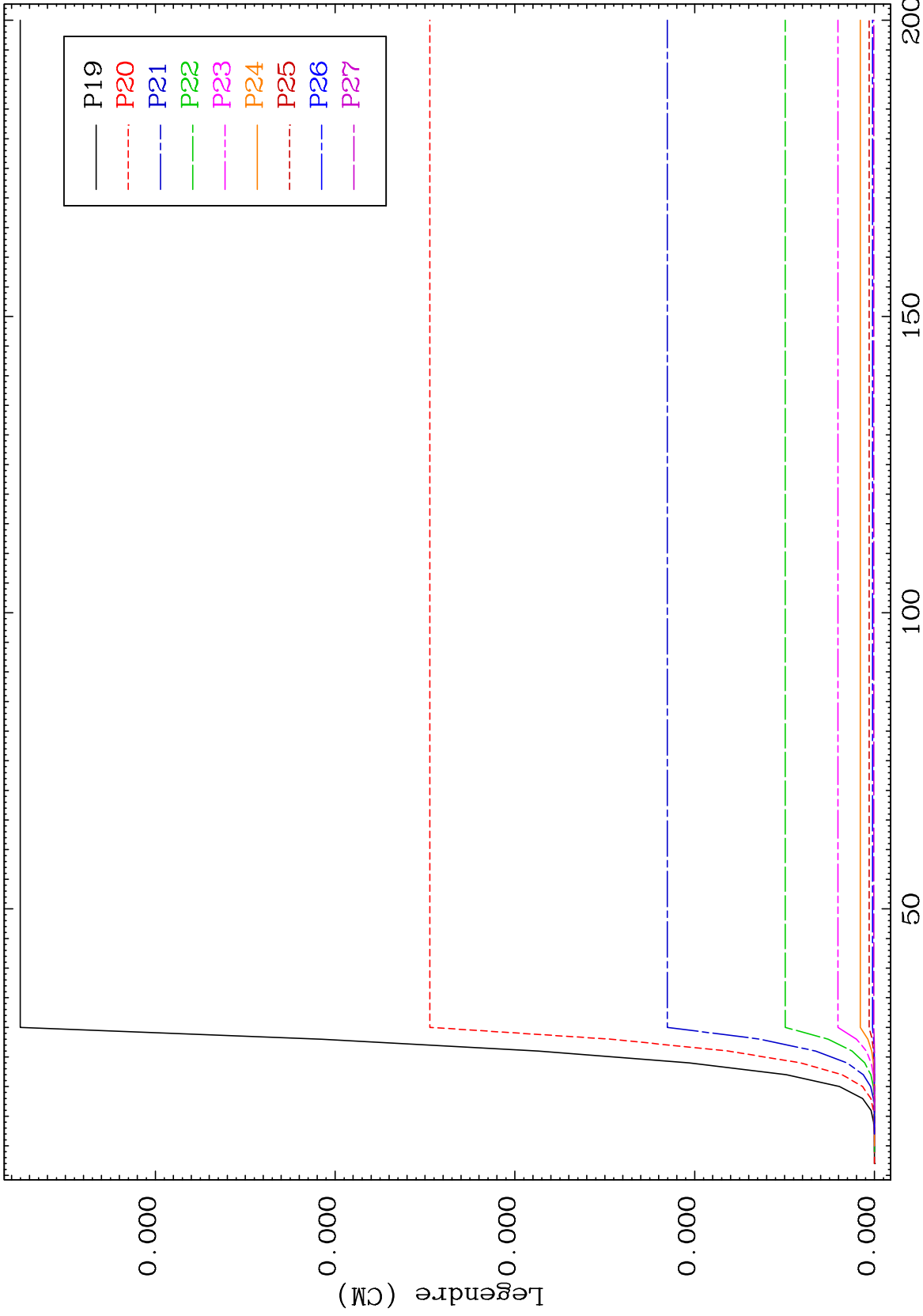
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



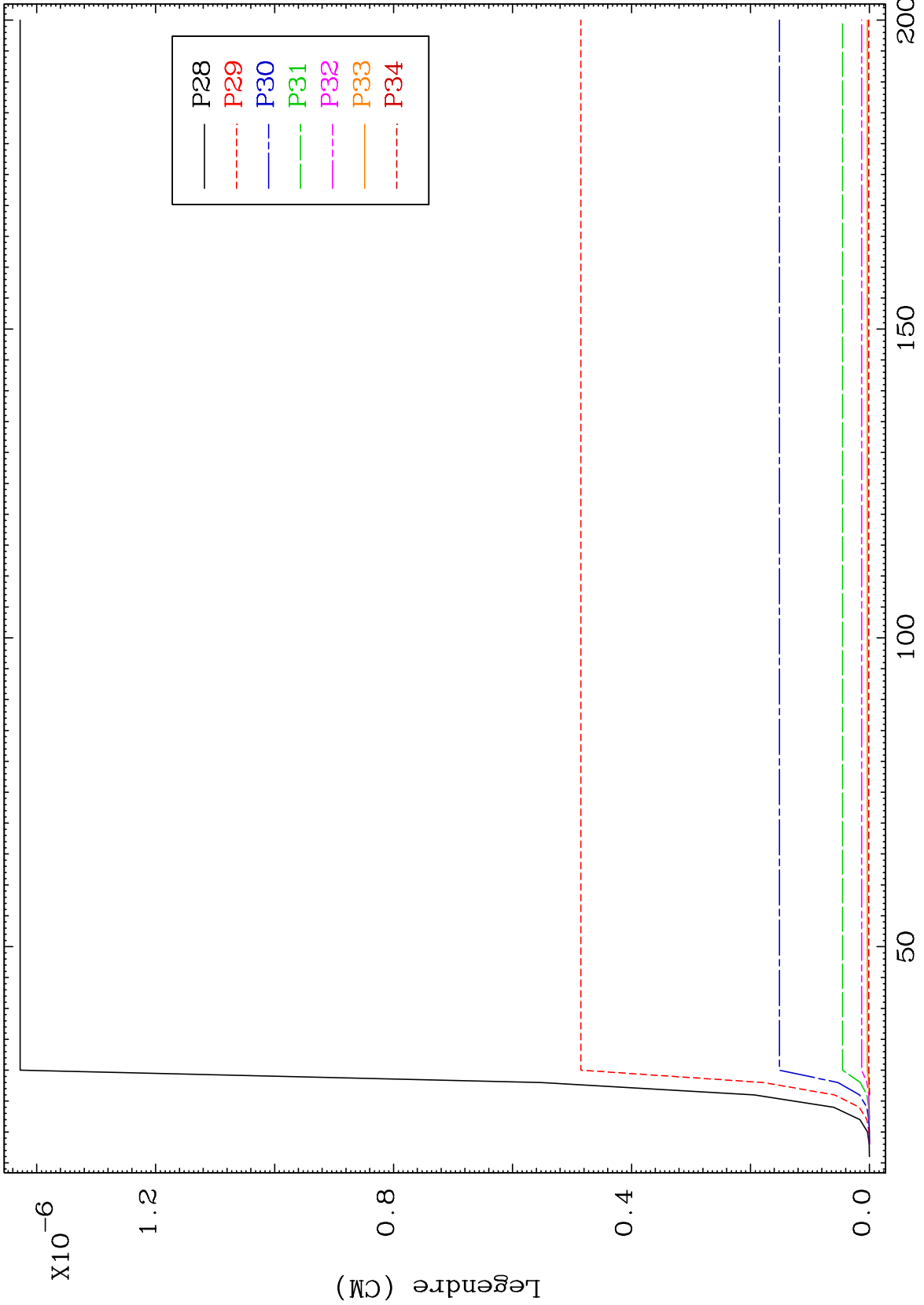
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MAT 4155

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

41-Nb-103



27

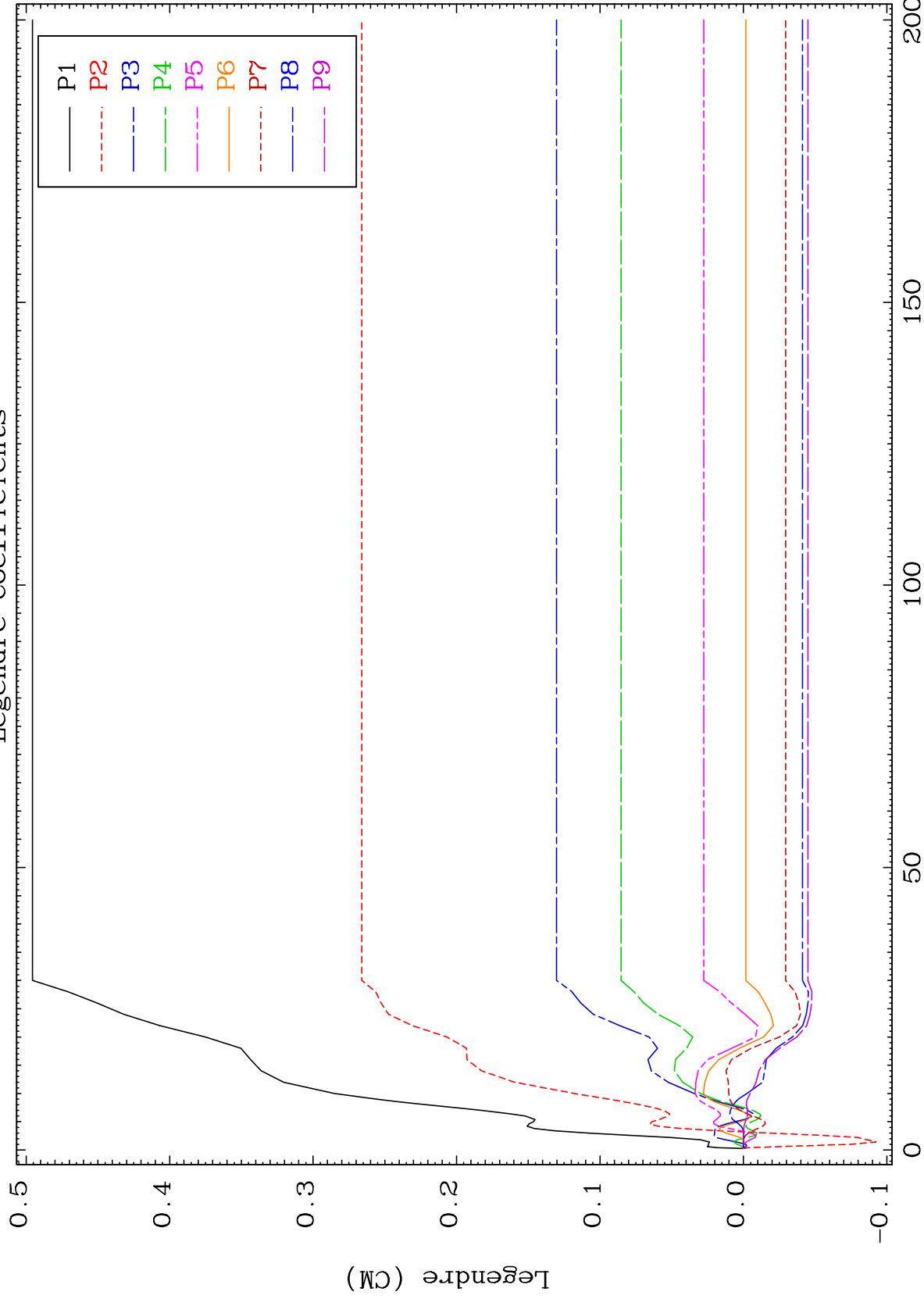
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



28

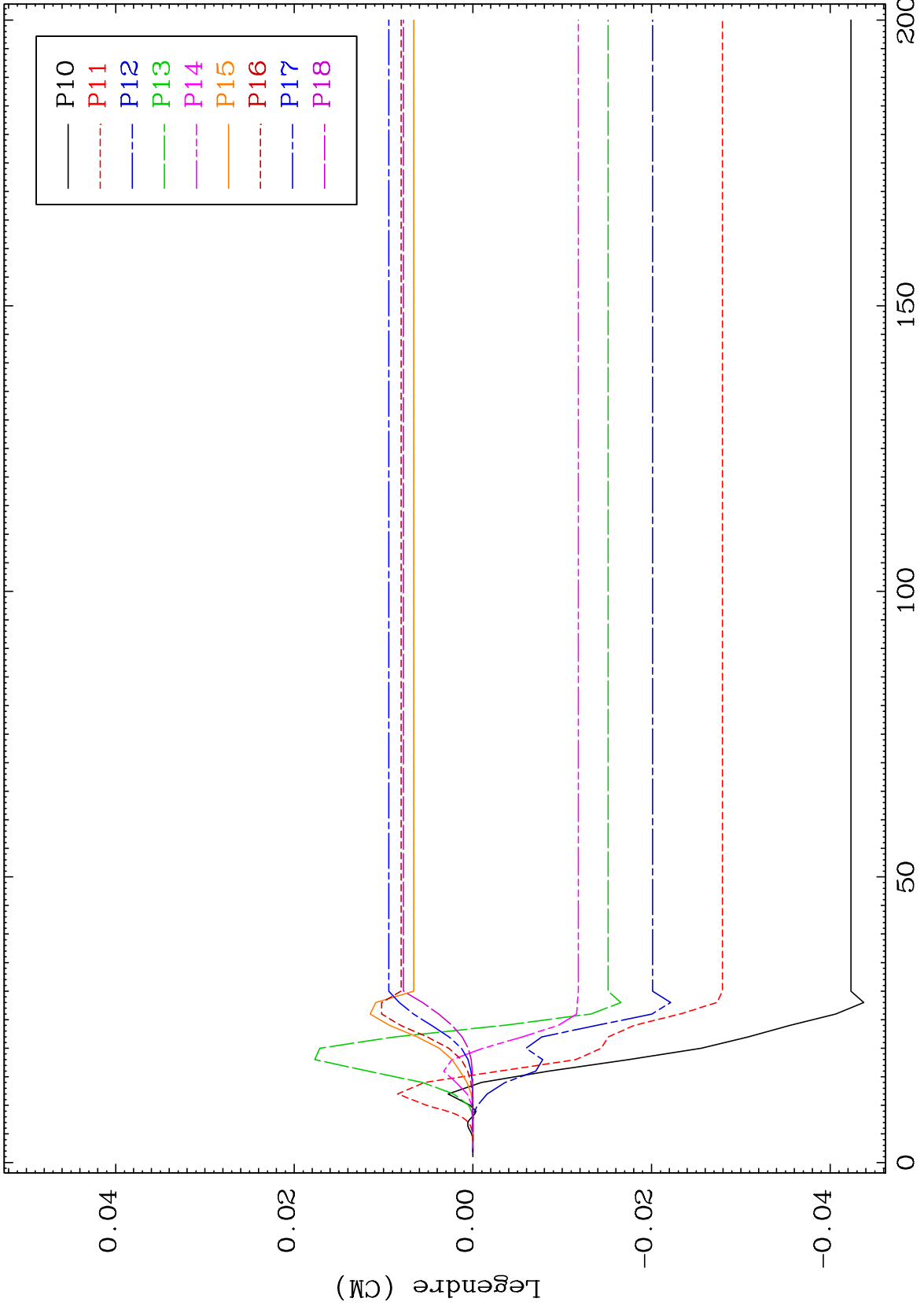
Incident Energy (MeV)

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MAT 4155

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

41-Nb-103



29

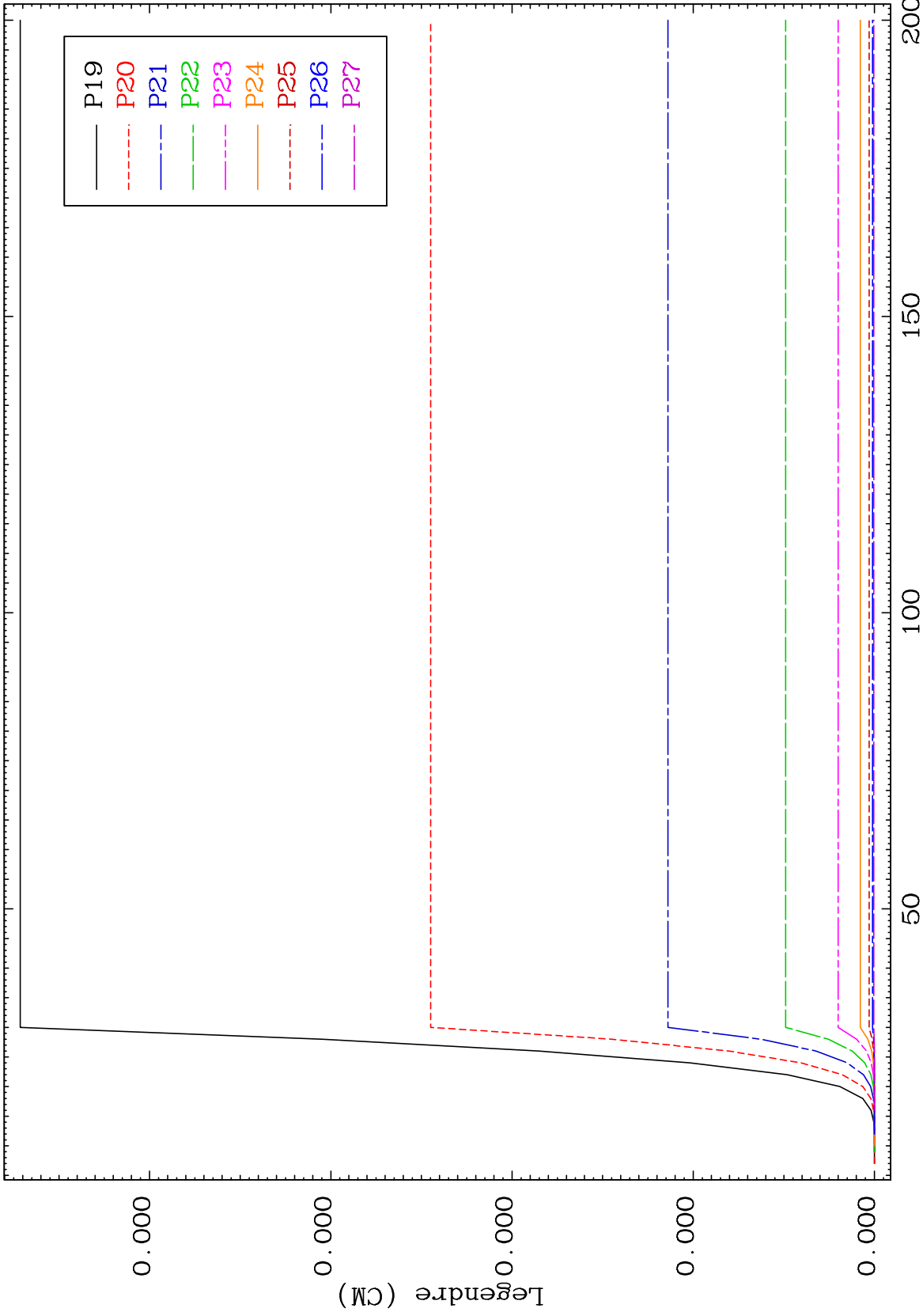
Incident Energy (MeV)

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MAT 4155

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

41-Nb-103



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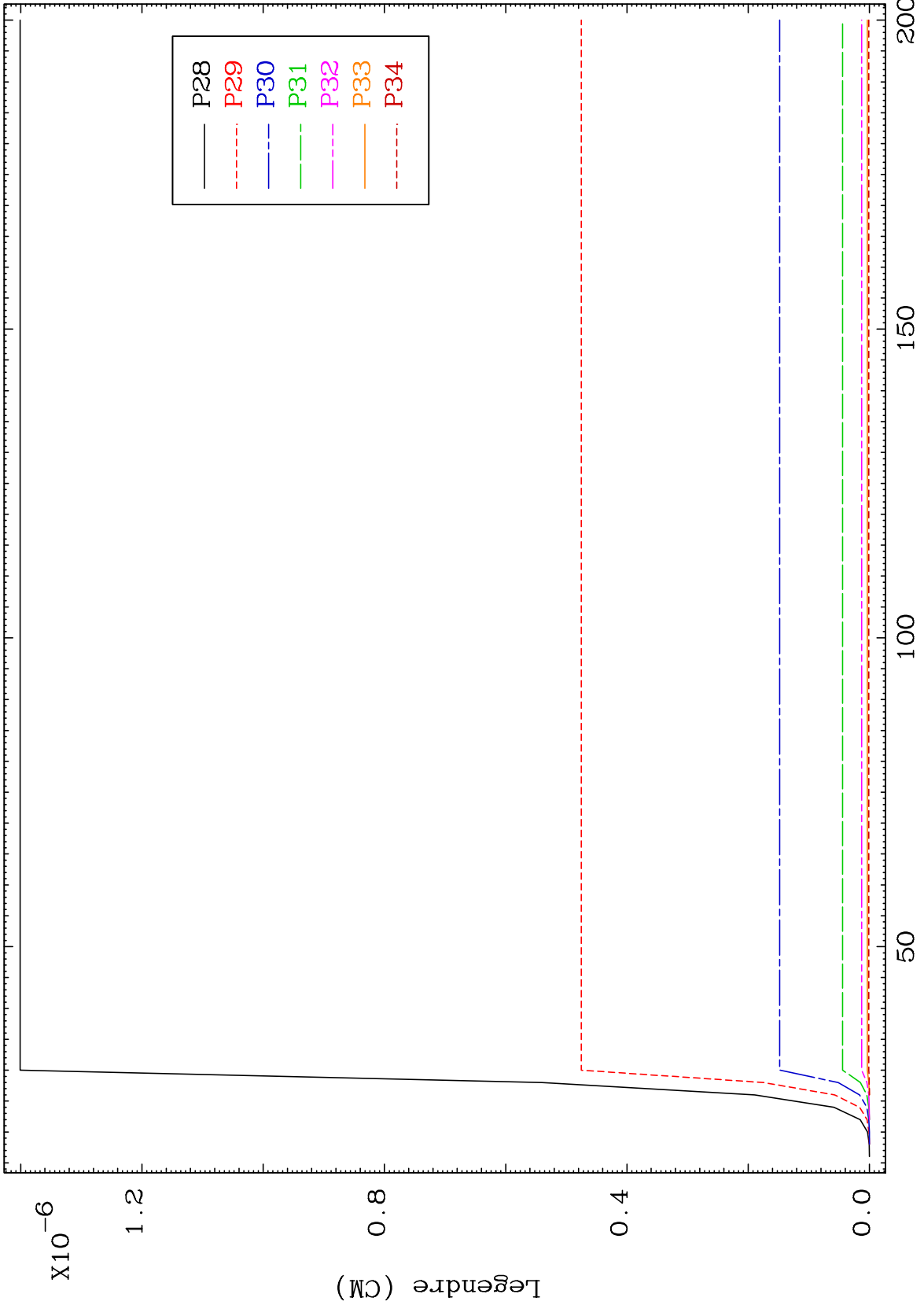
Incident Energy (MeV)

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MAT 4155

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

41-Nb-103



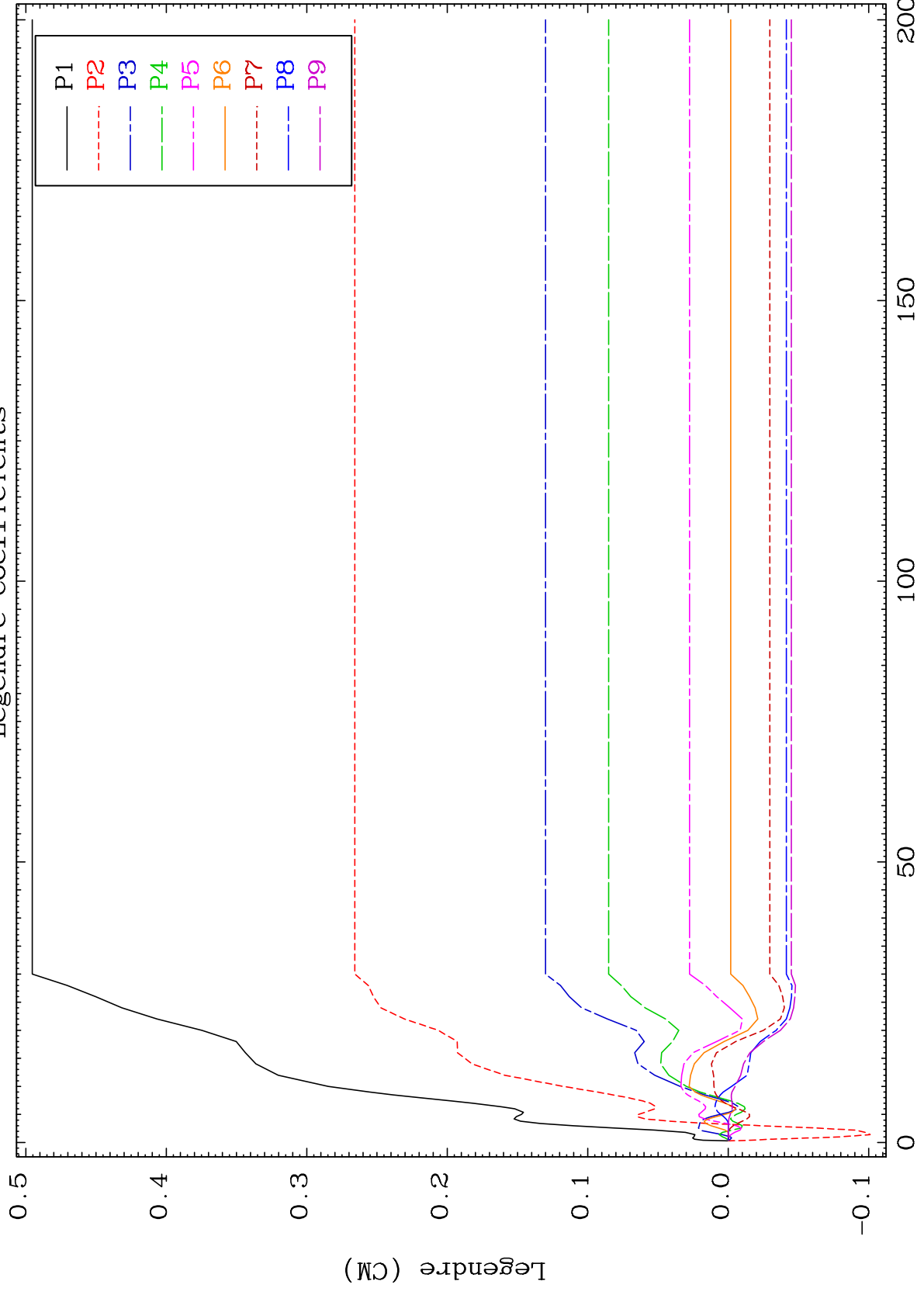
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MAT 4155

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

41-Nb-103



32

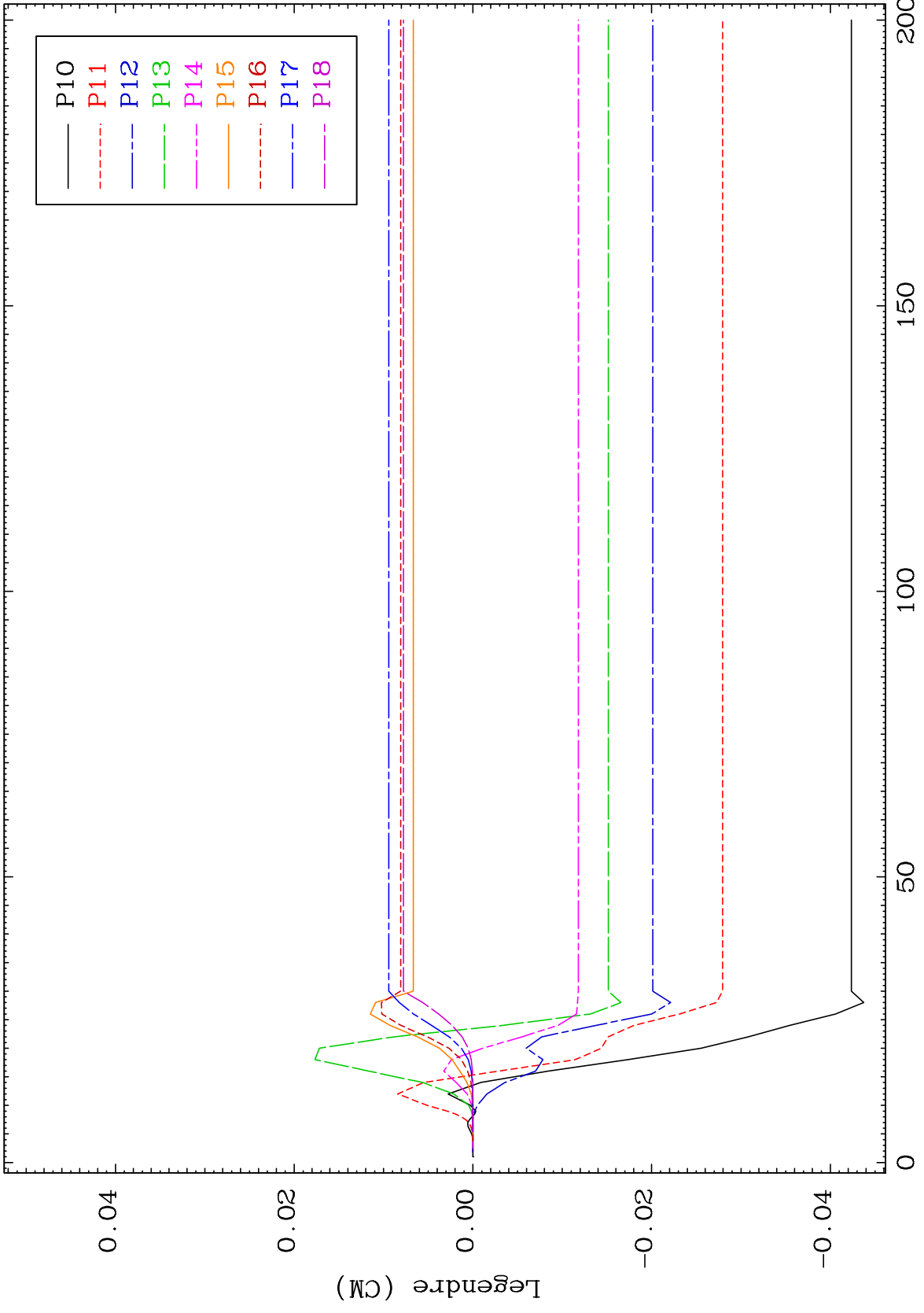
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



33

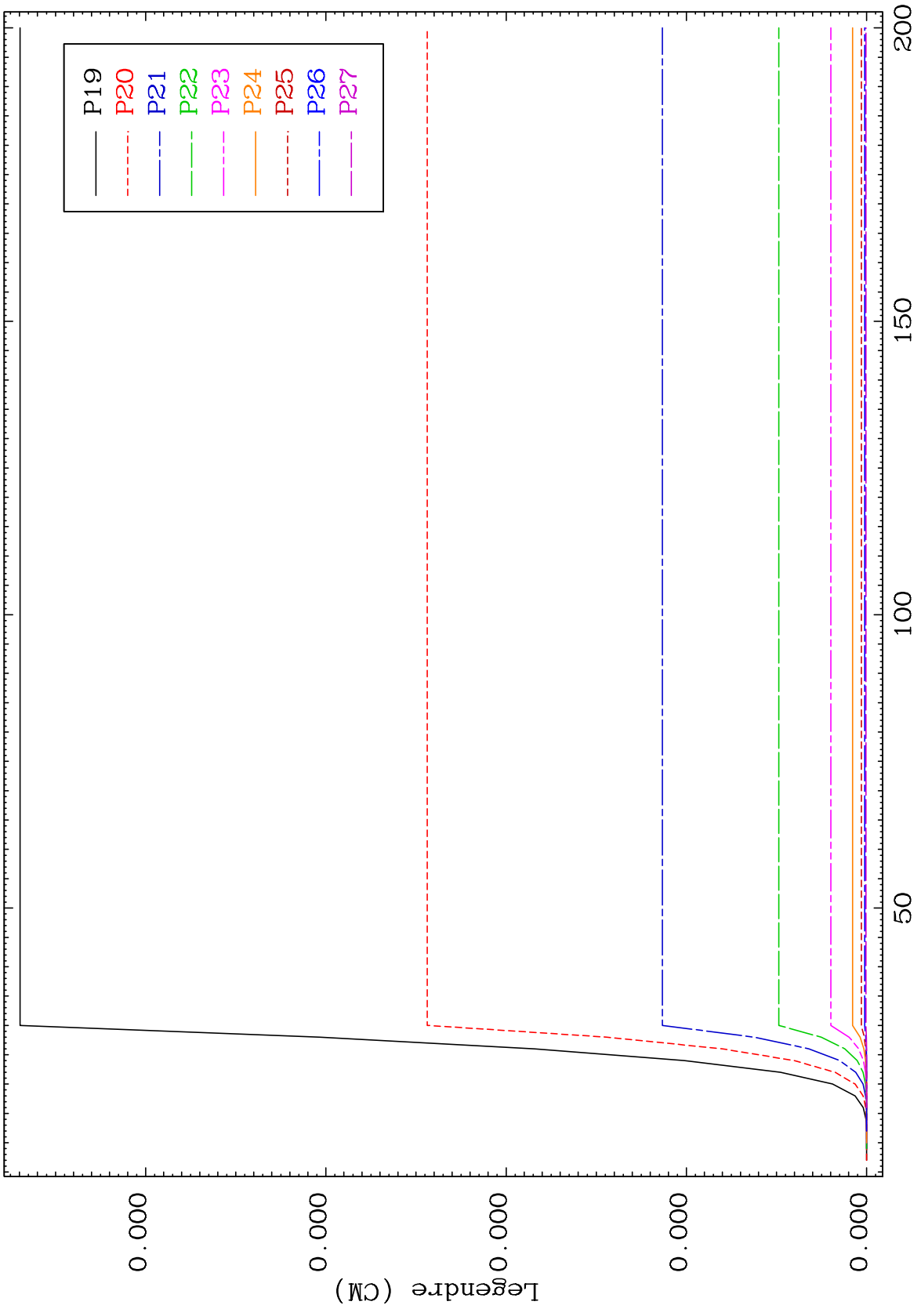
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



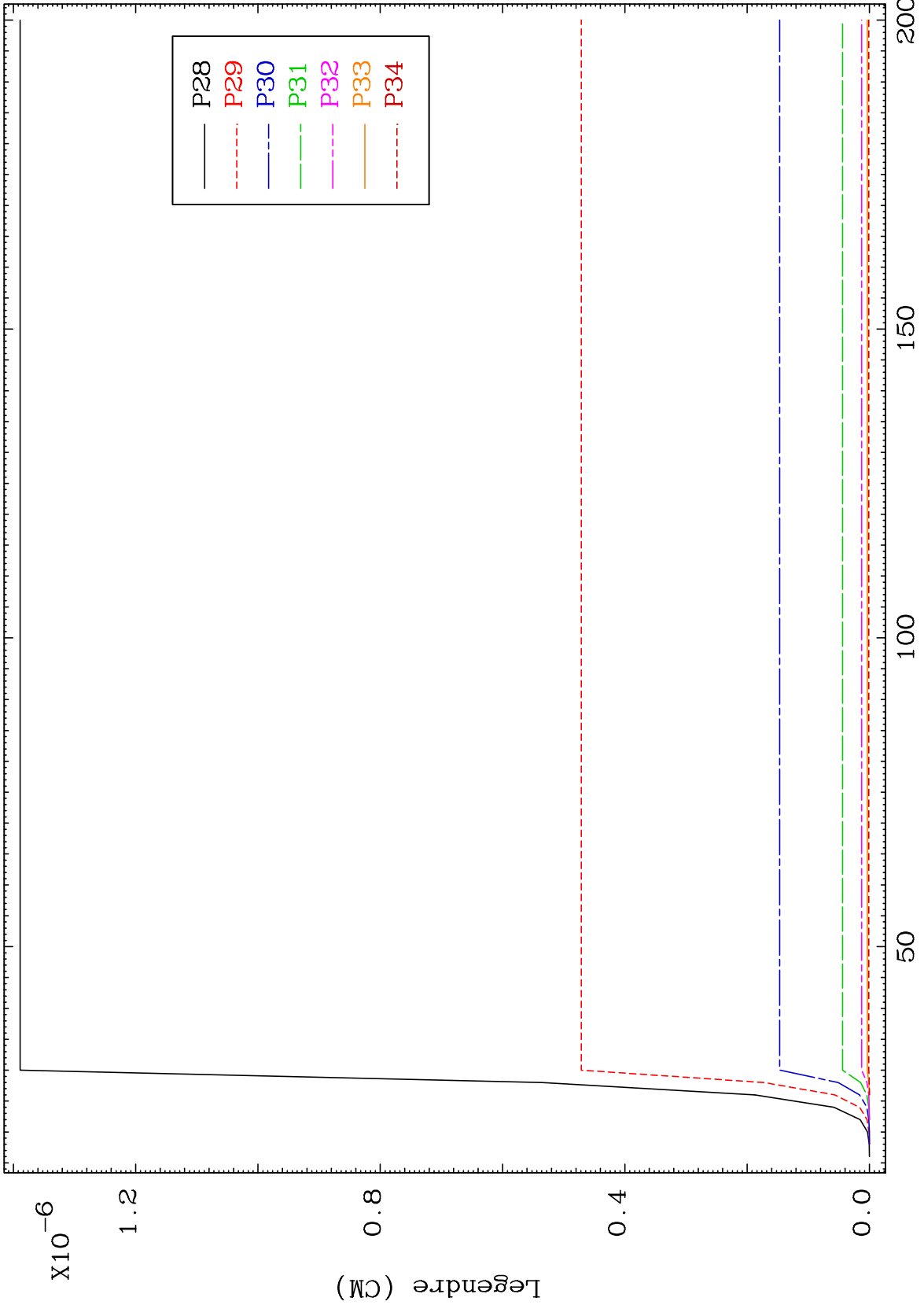
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MAT 4155

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

41-Nb-103



35

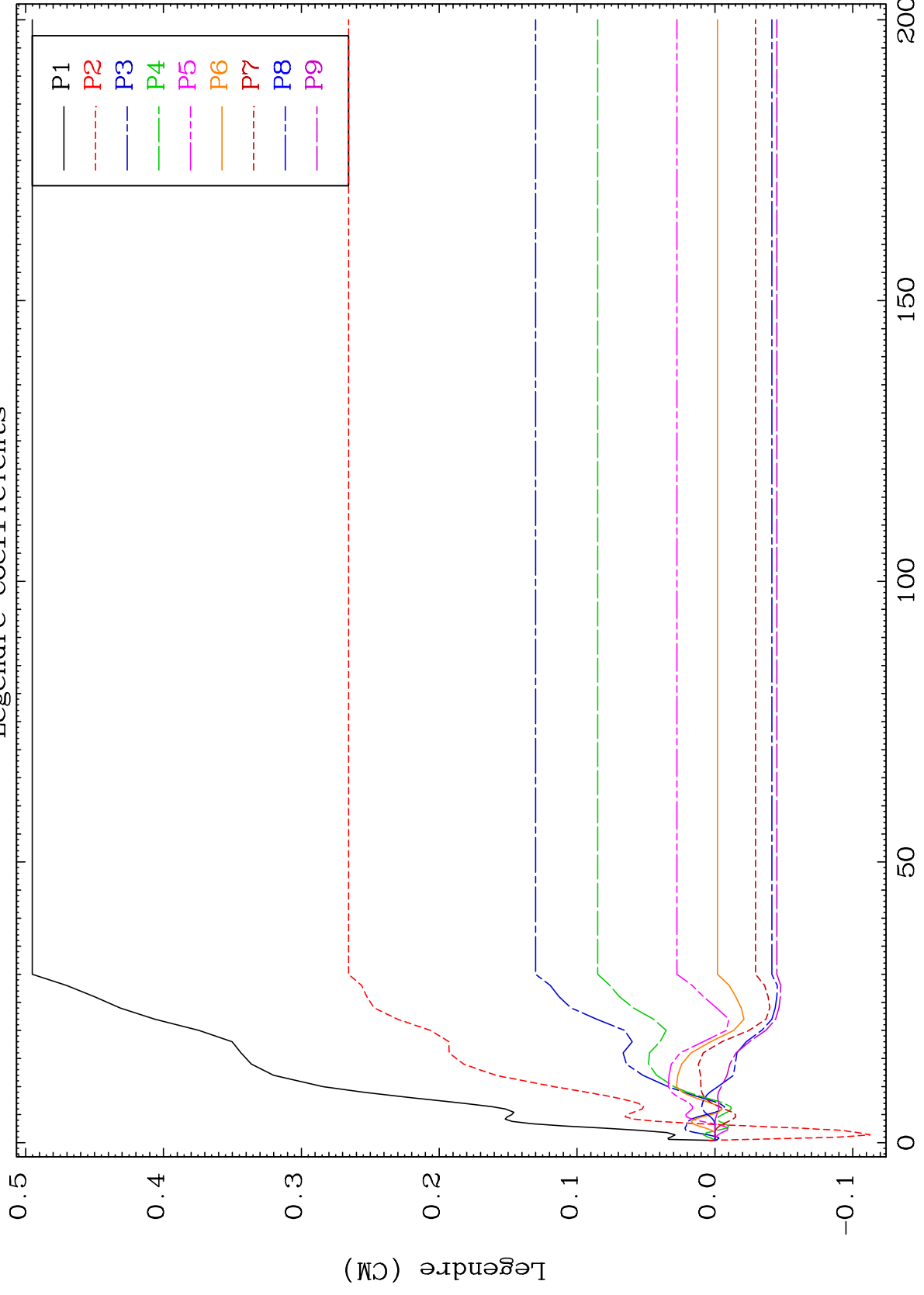
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



36

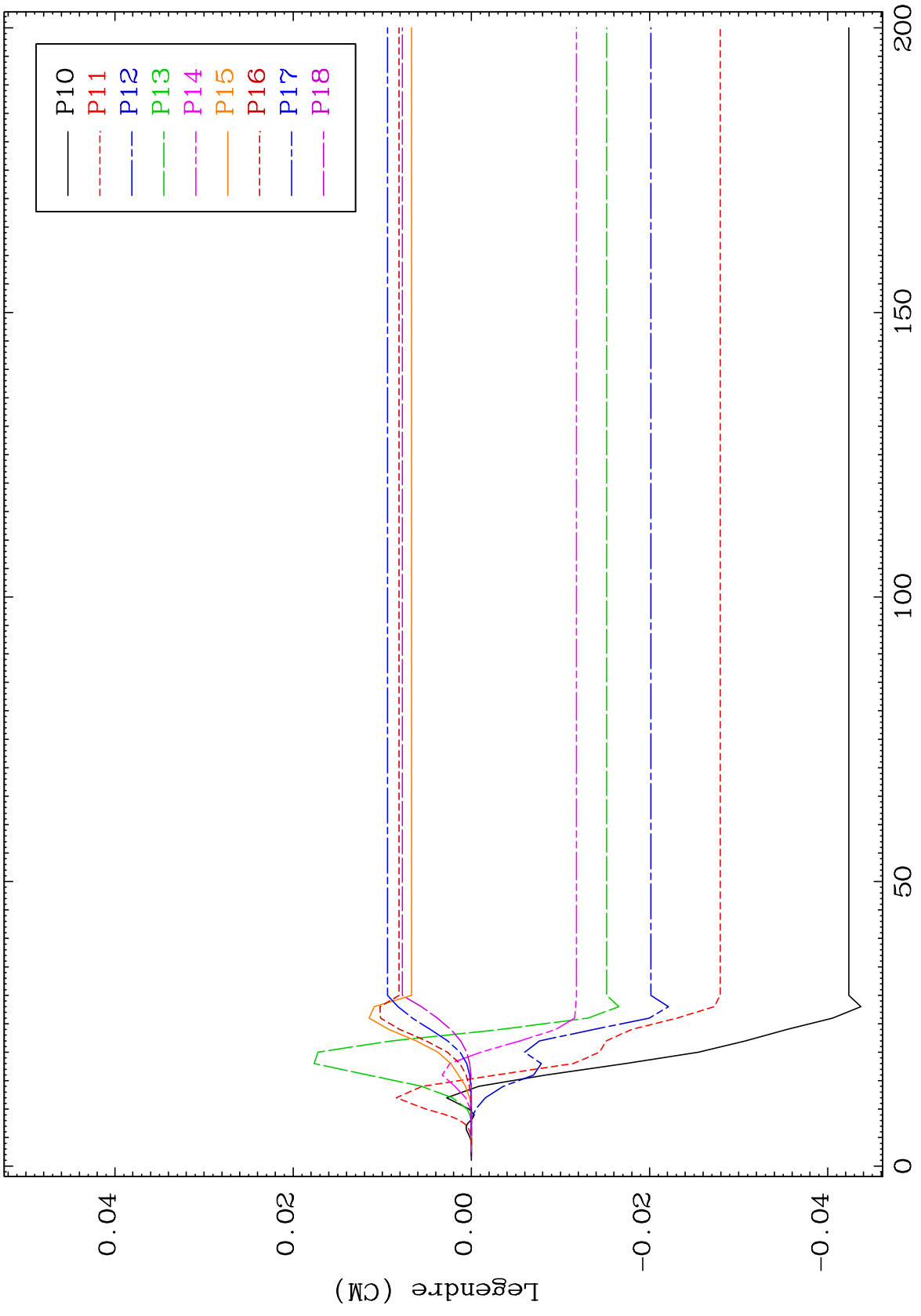
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



37

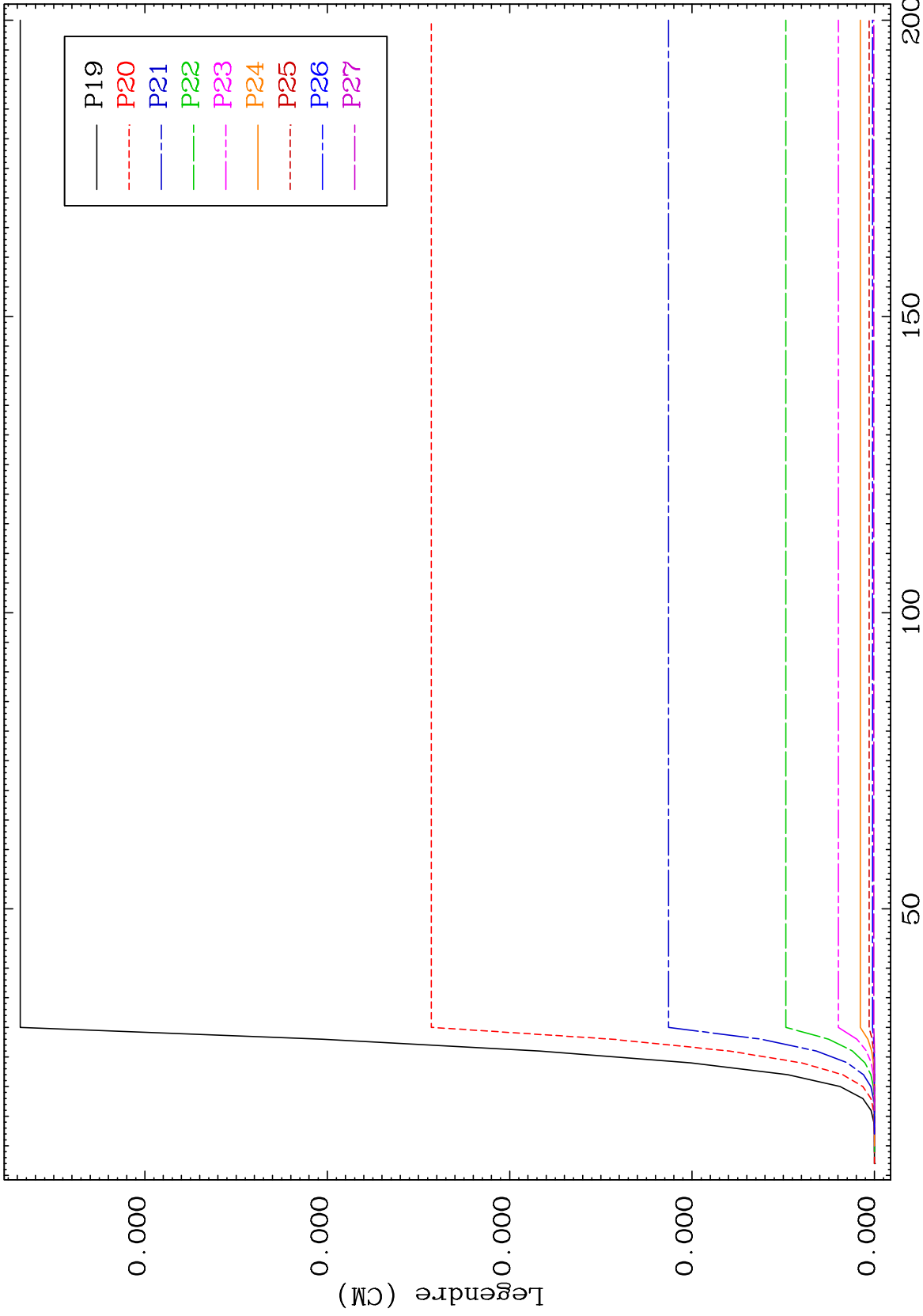
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



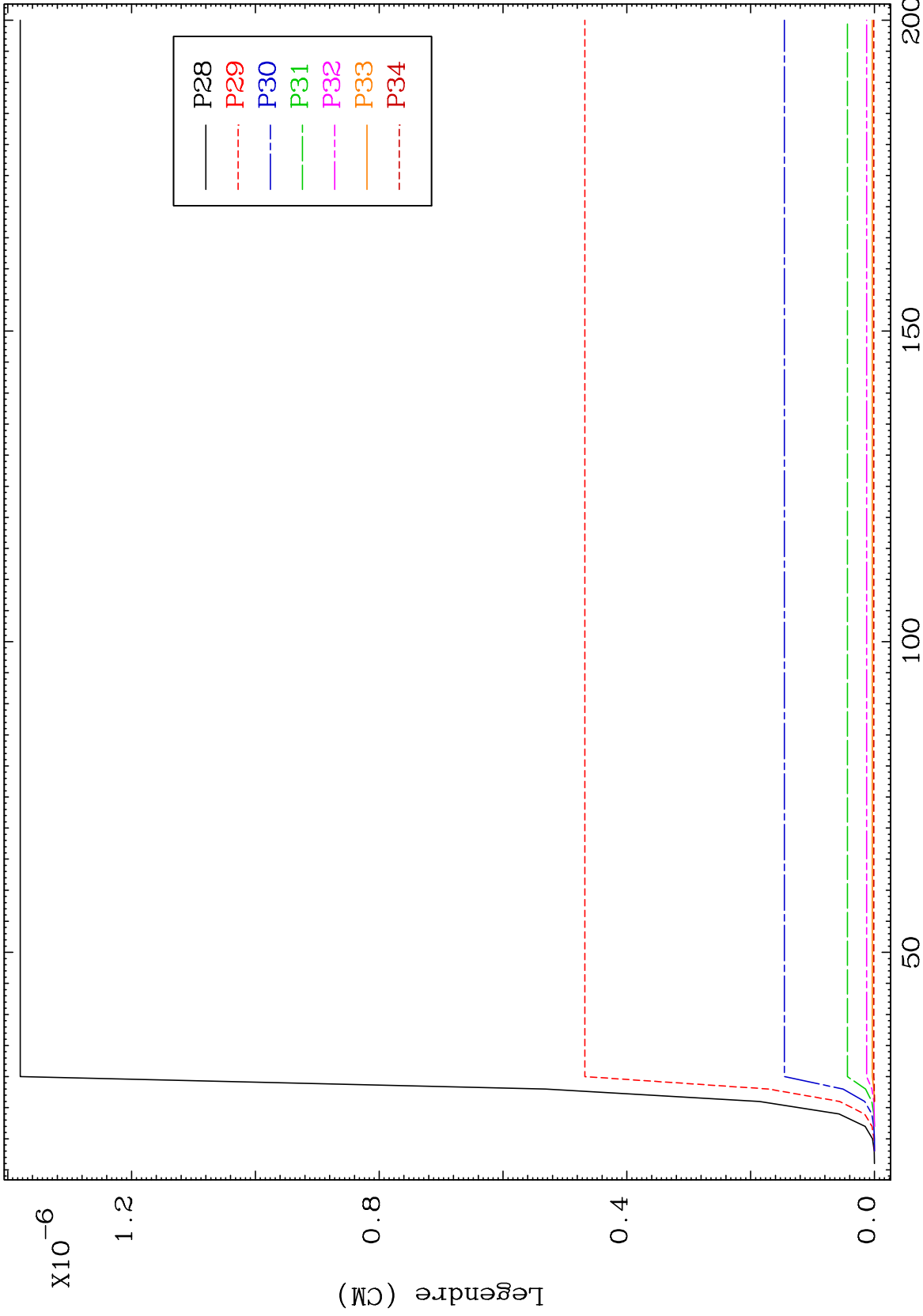
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41-Nb-103

MAT 4155

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

41-Nb-103



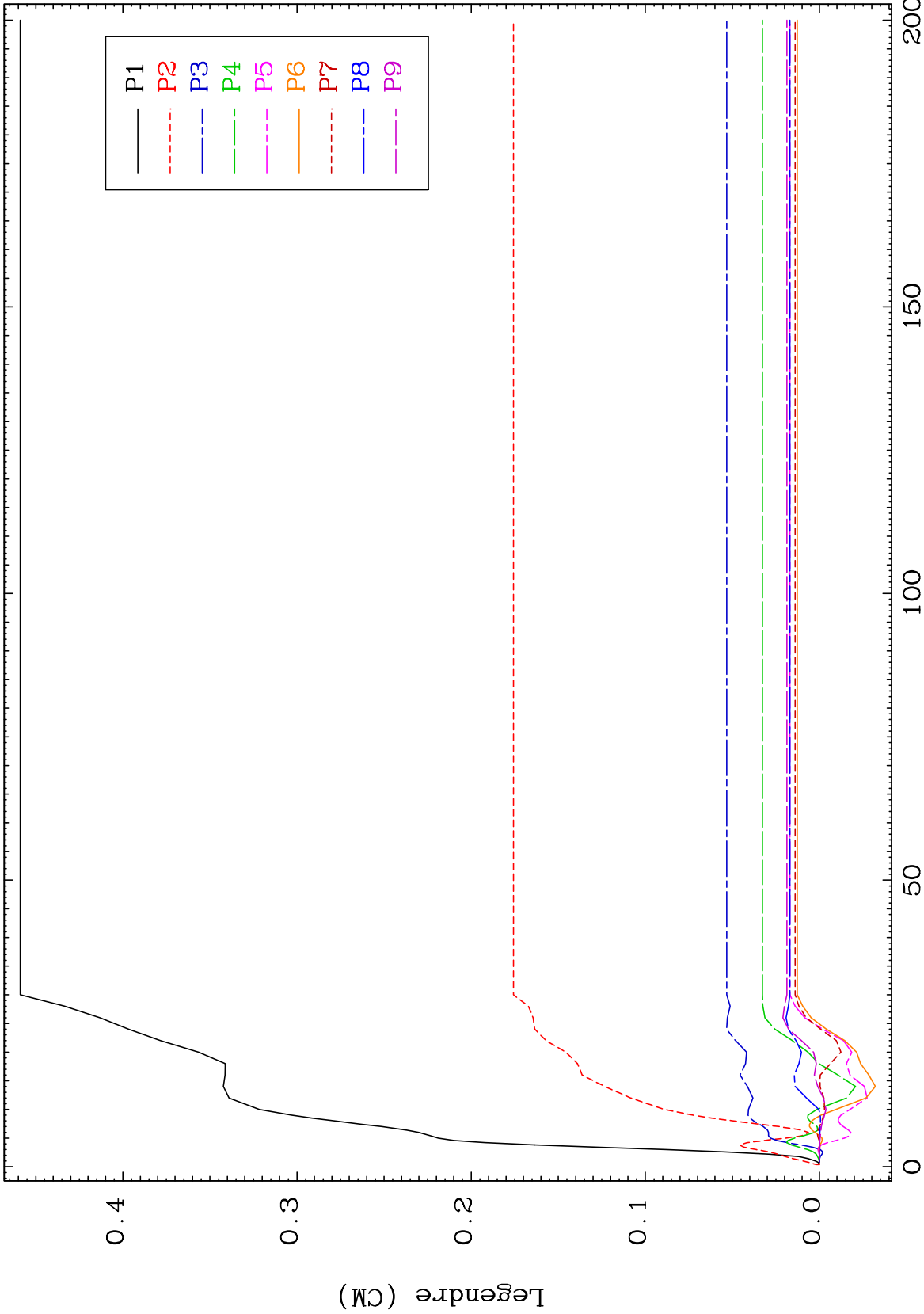
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41-Nb-103

MAT 4155

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

41-Nb-103



41-Nb-103

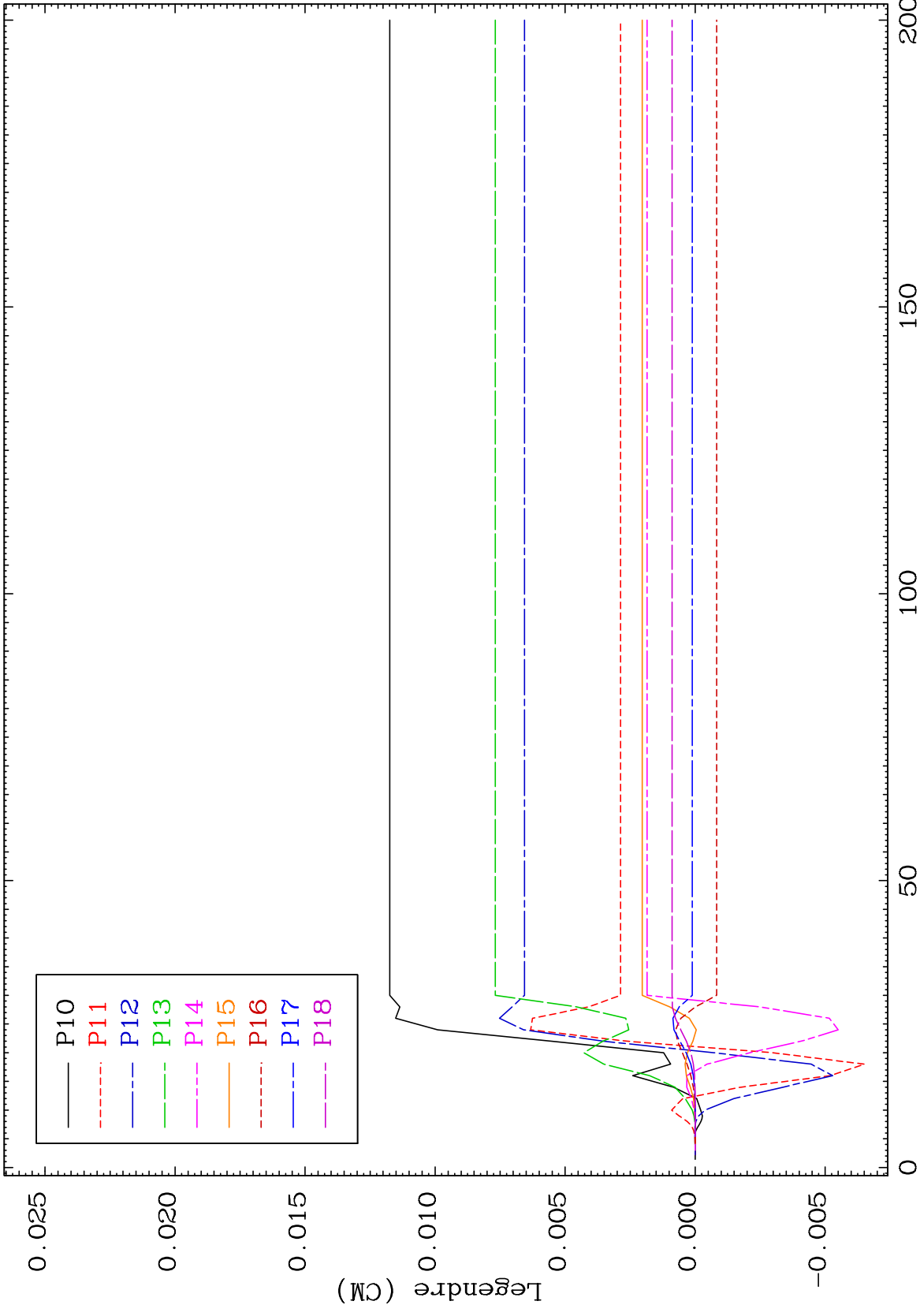
Incident Energy (MeV)

40

MAT 4155

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

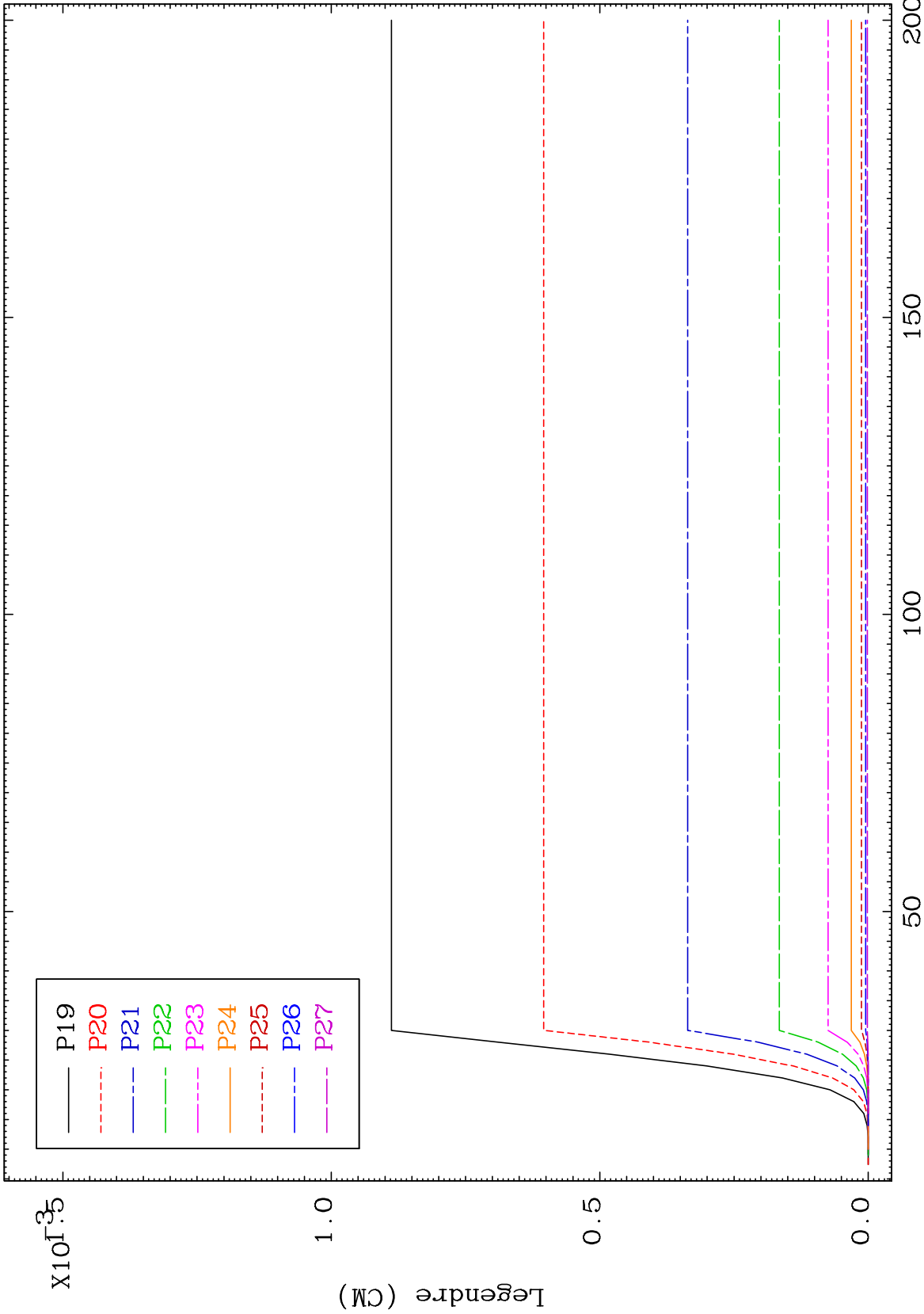
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Incident Energy (MeV)

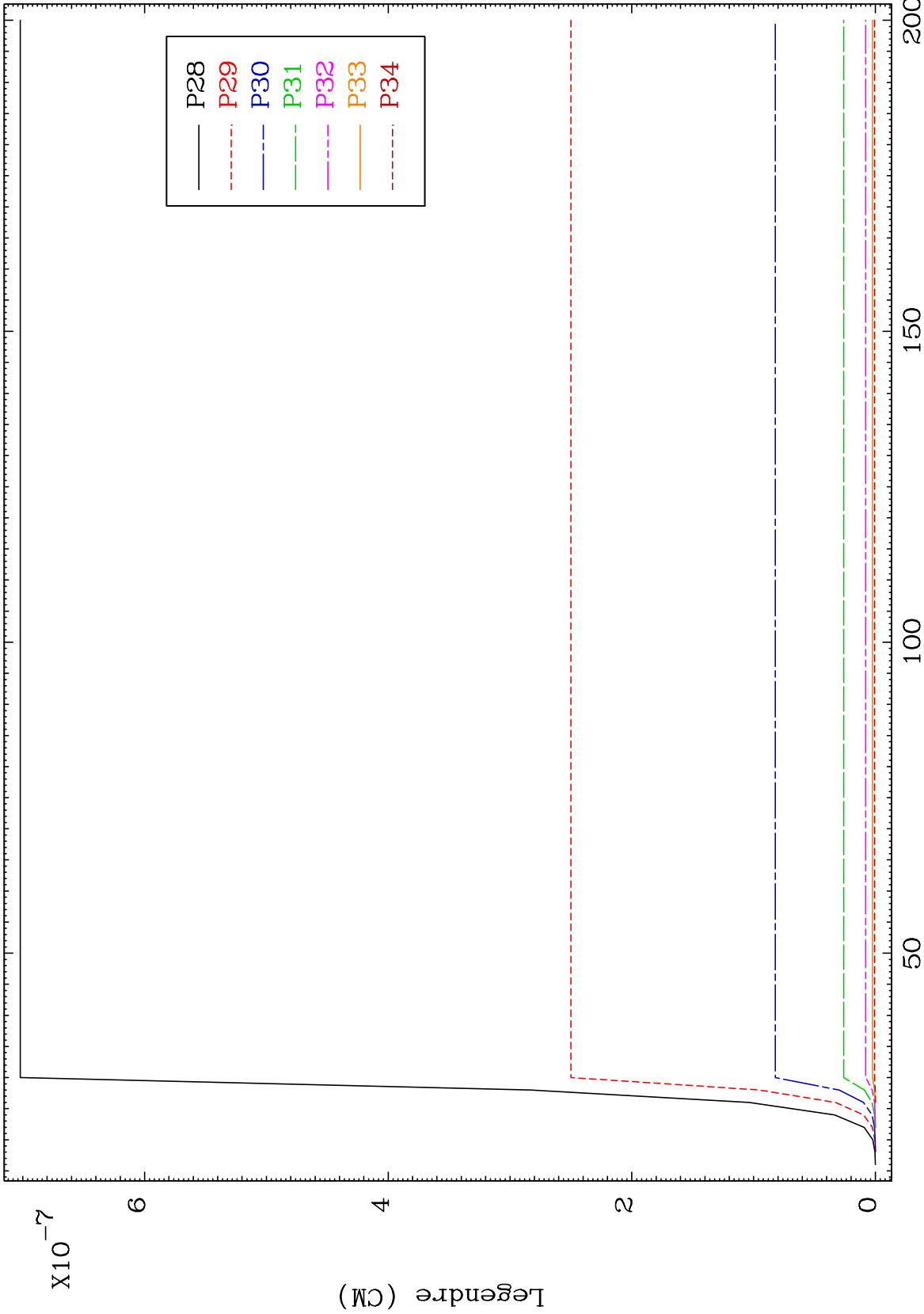
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MAT 4155

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

41-Nb-103



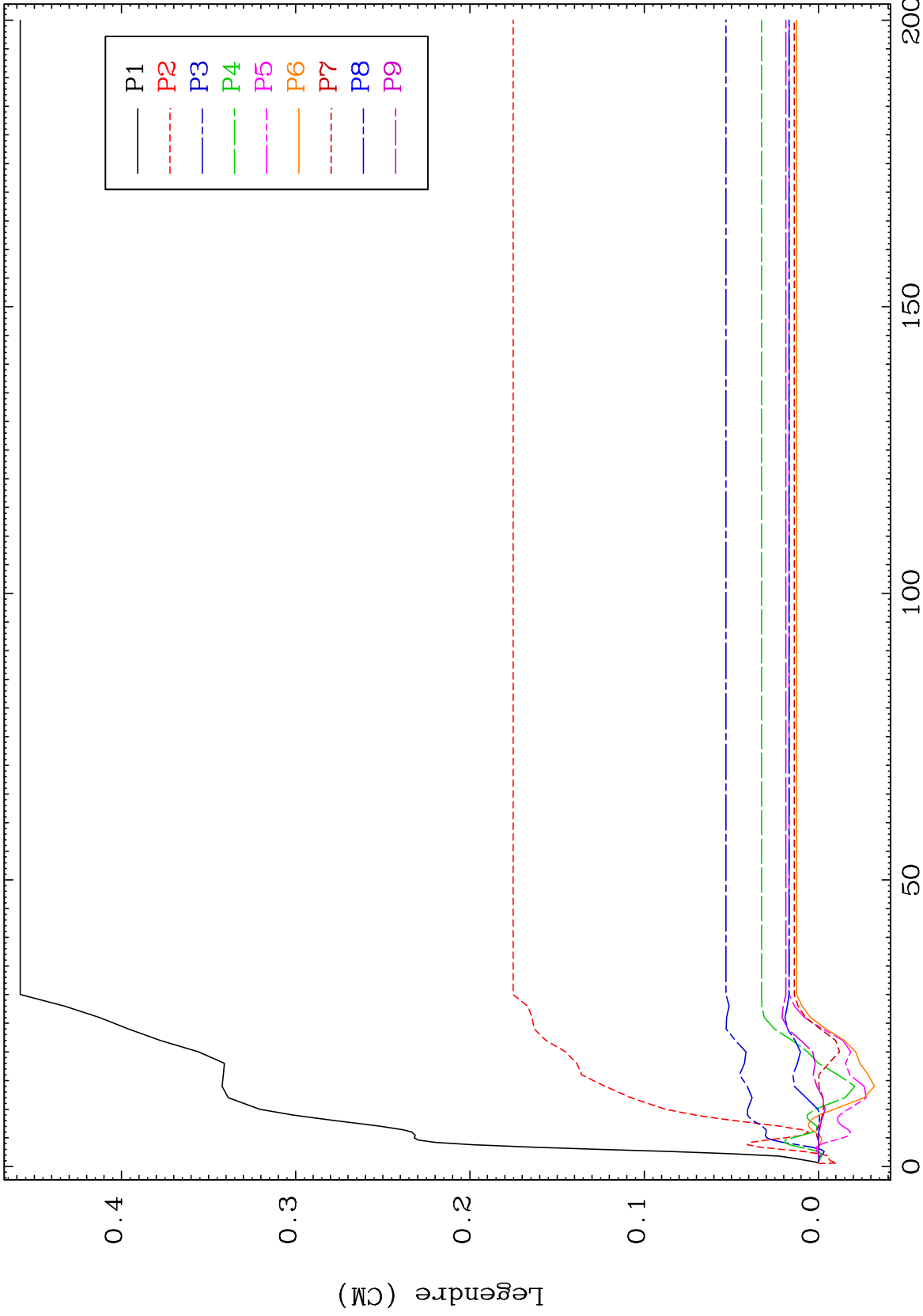
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41-Nb-103

MAT 4155

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

41-Nb-103



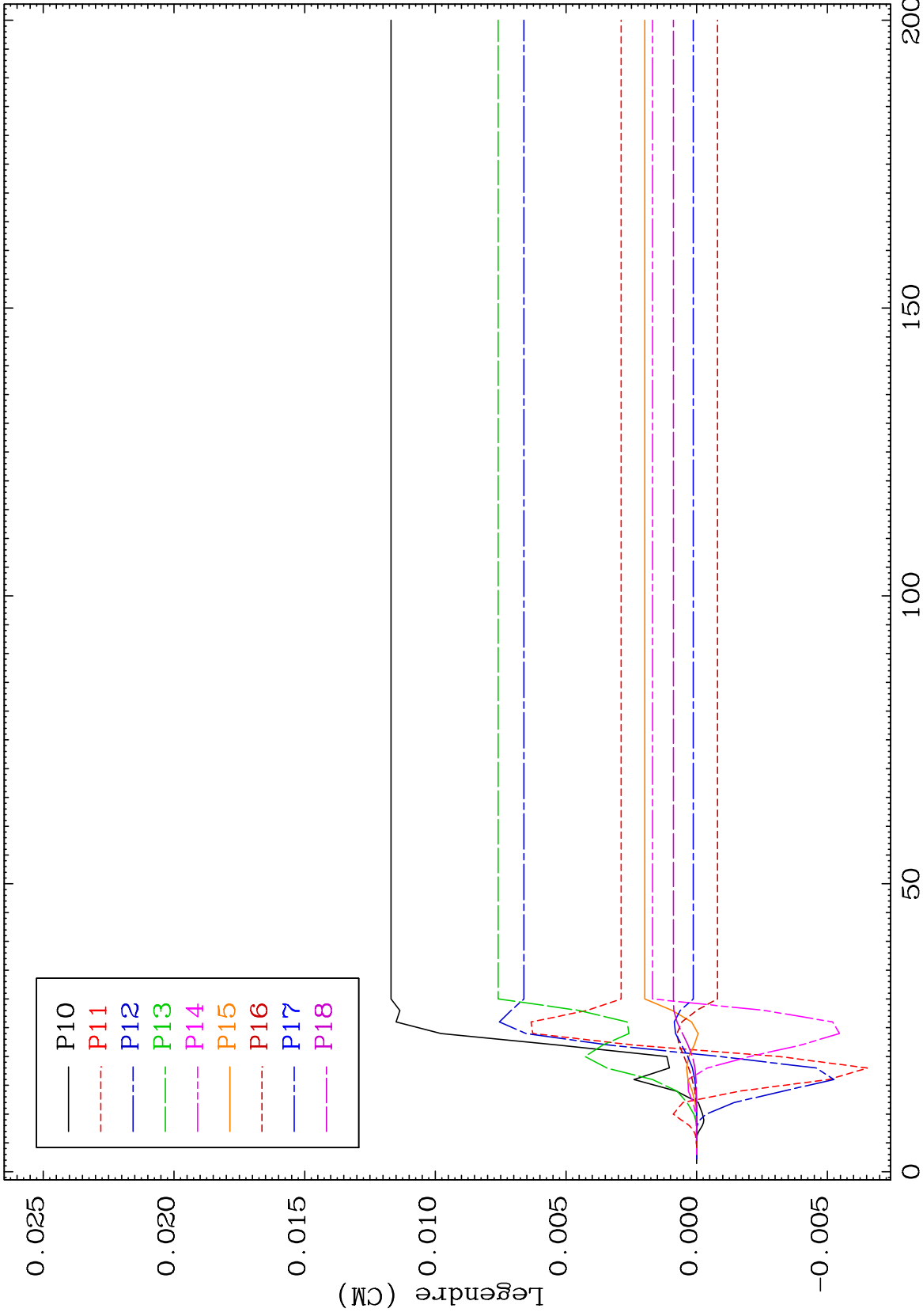
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MAT 4155

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

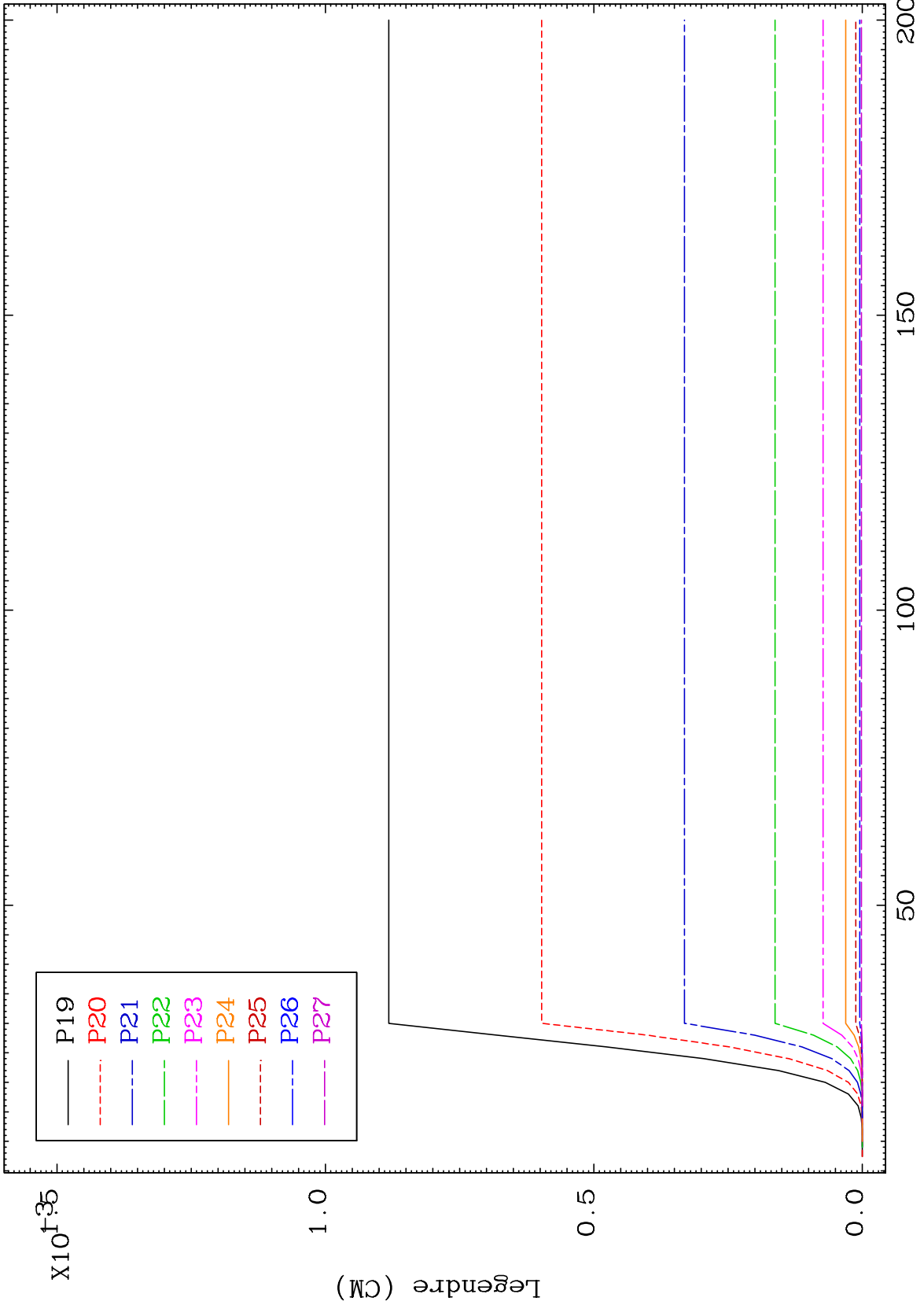
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Incident Energy (MeV)

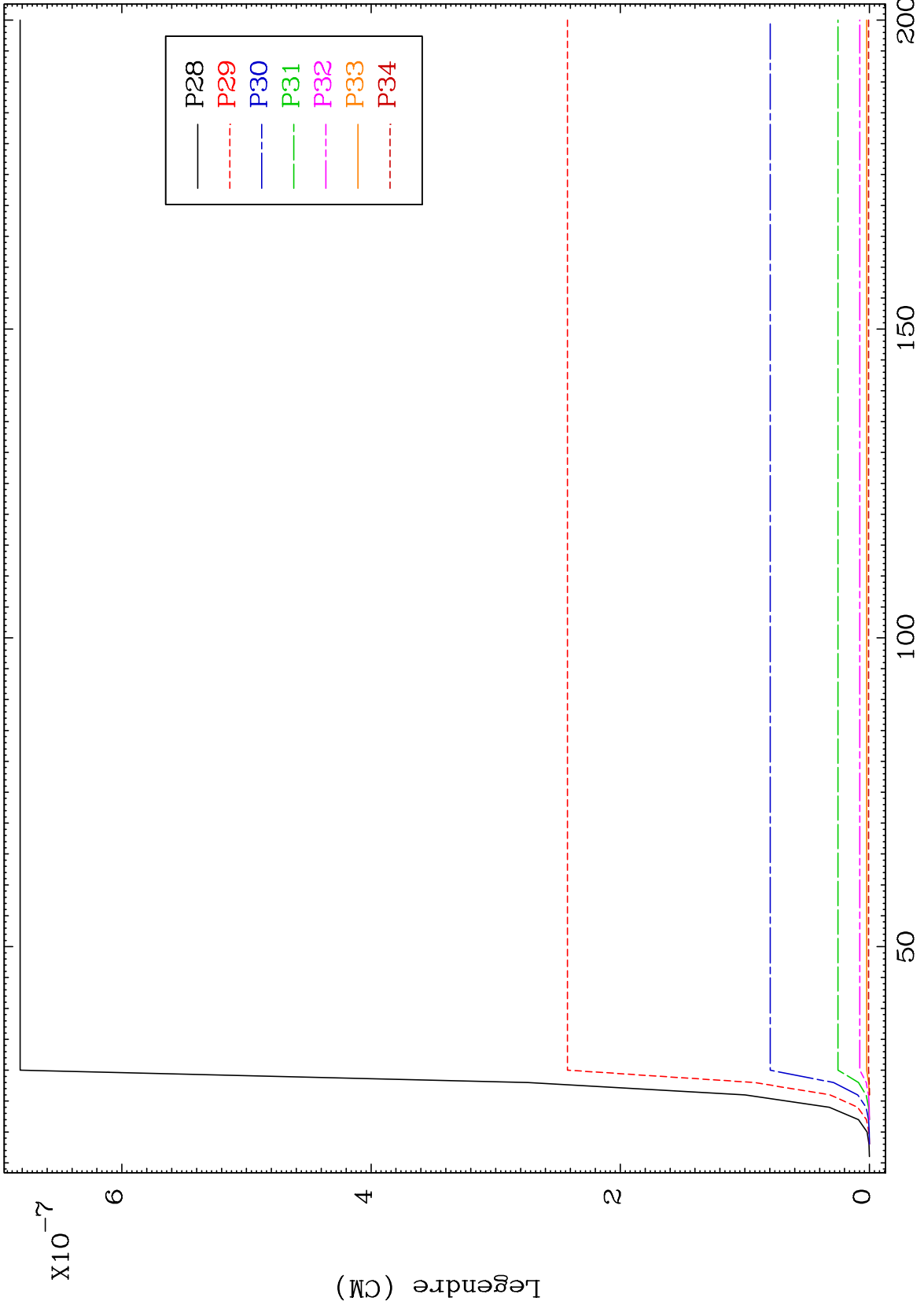
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MAT 4155

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

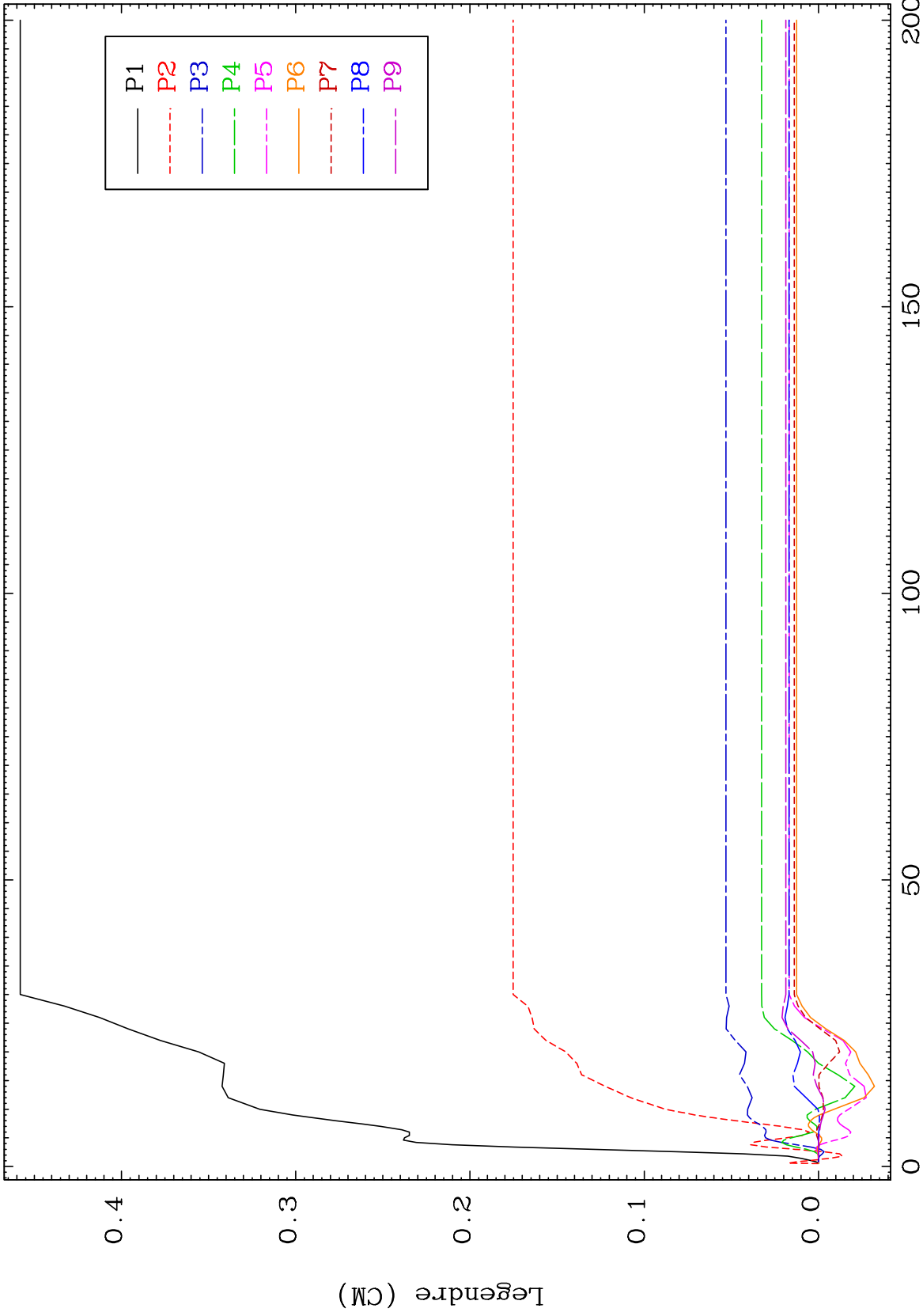
41-Nb-103



MAT 4155

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

41-Nb-103



48

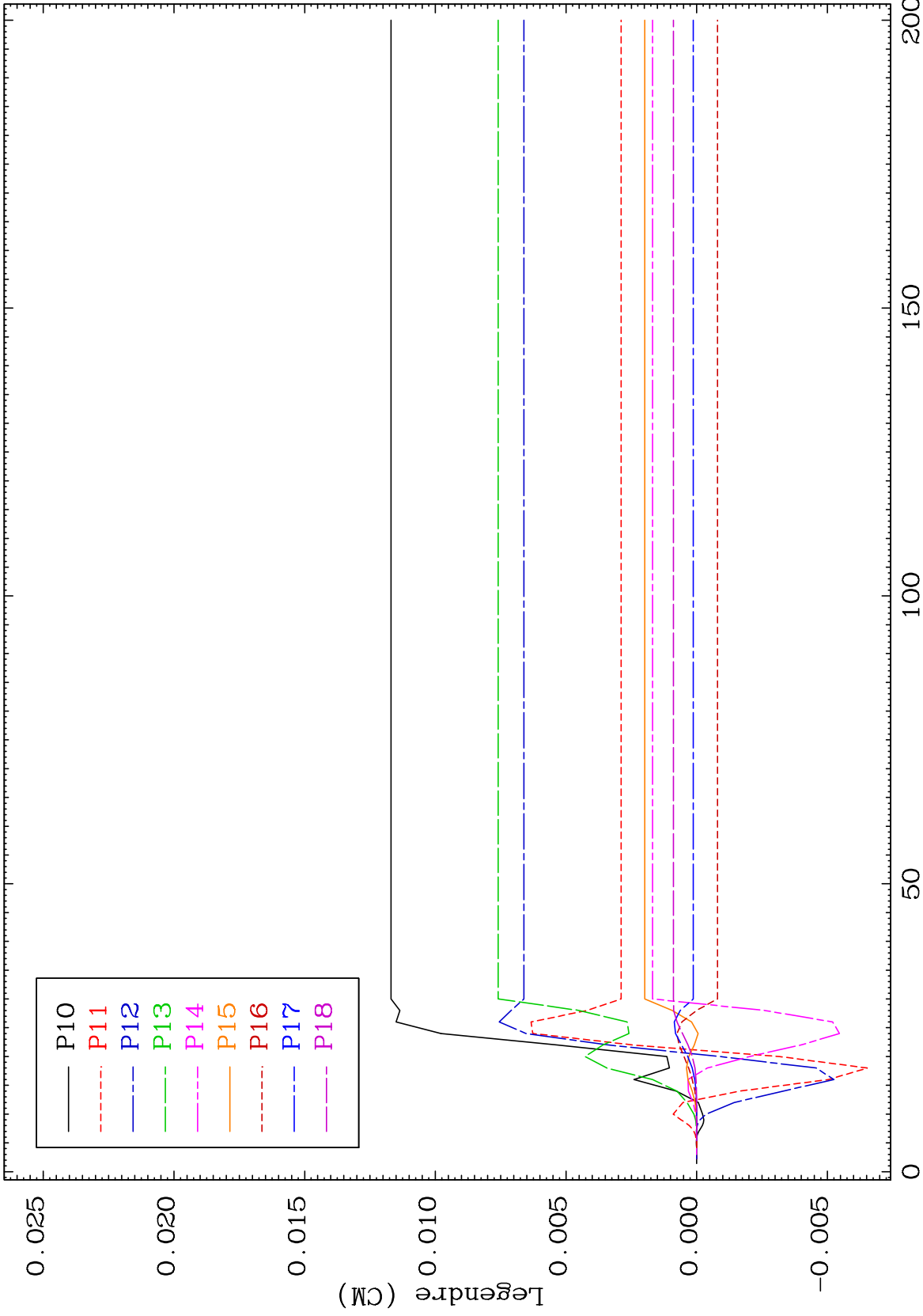
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



49

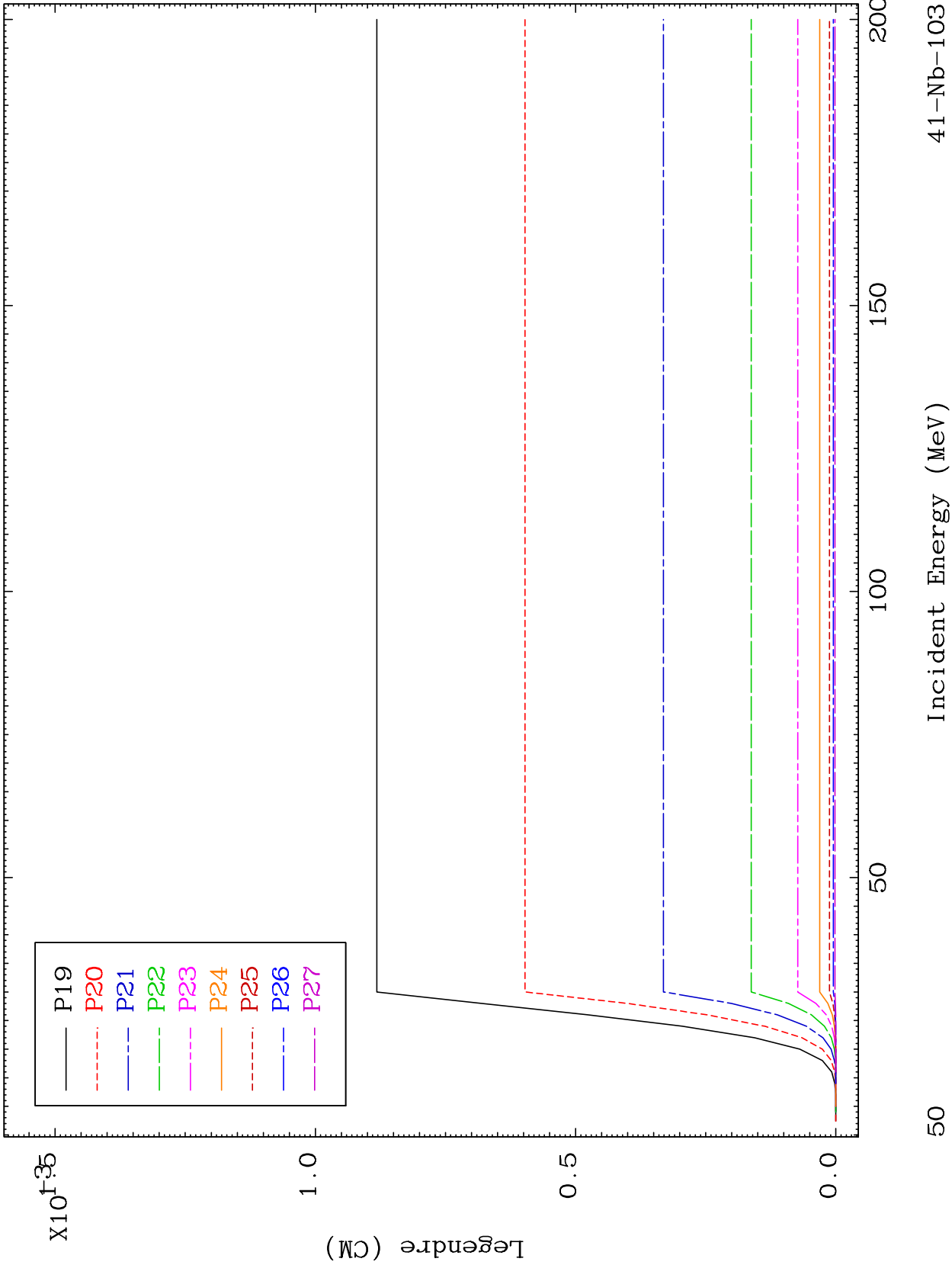
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



50

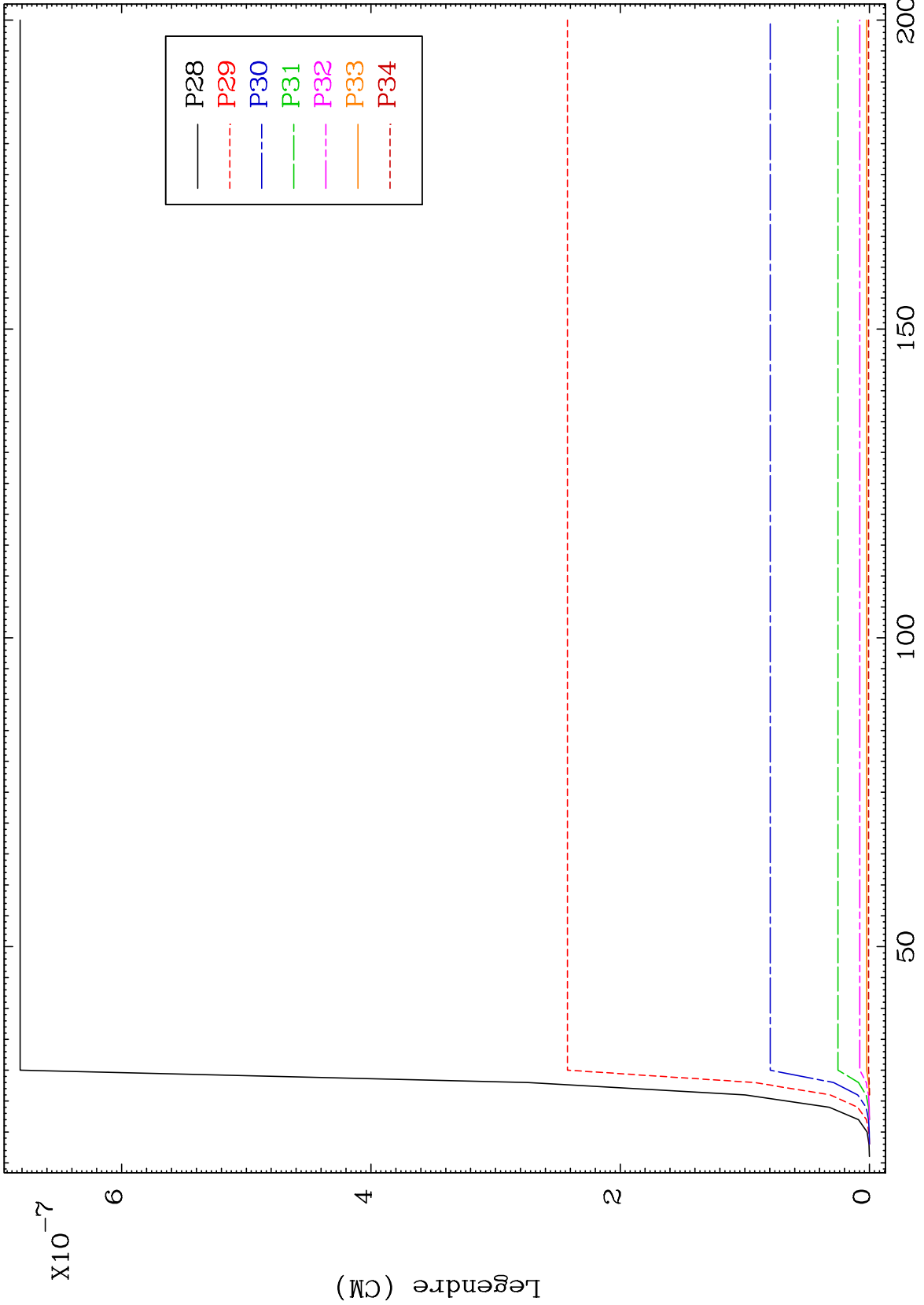
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



51

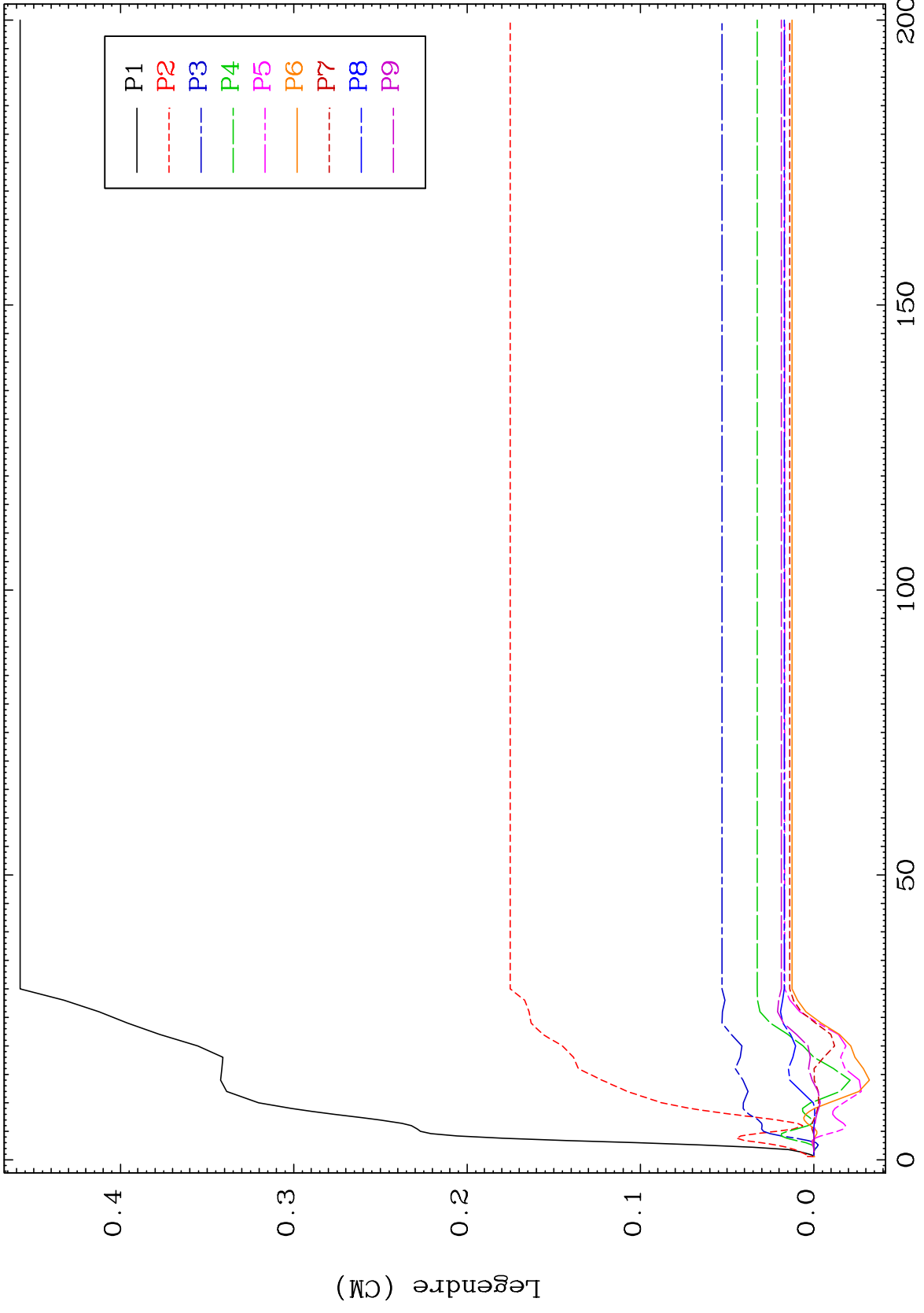
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



52

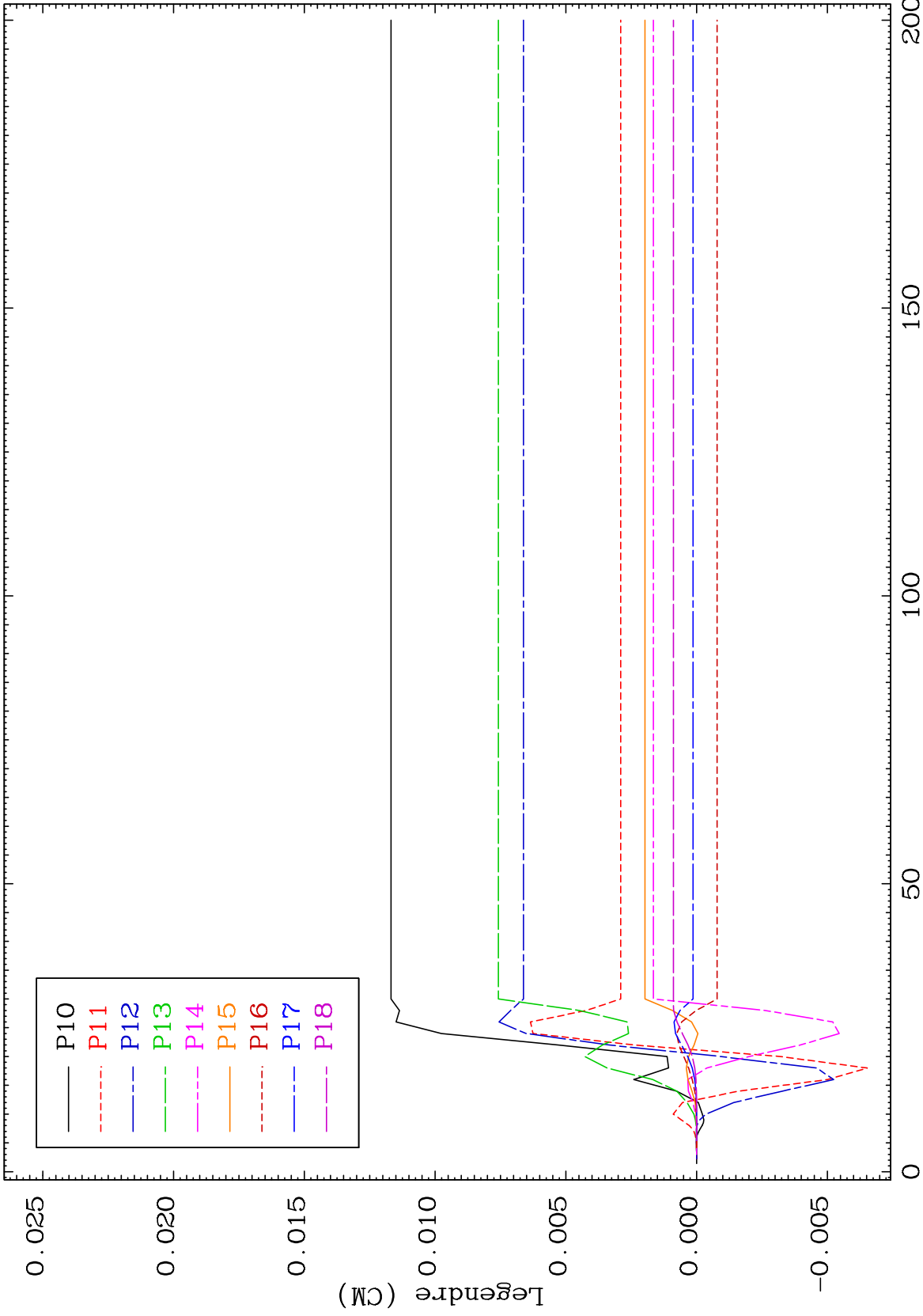
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



53

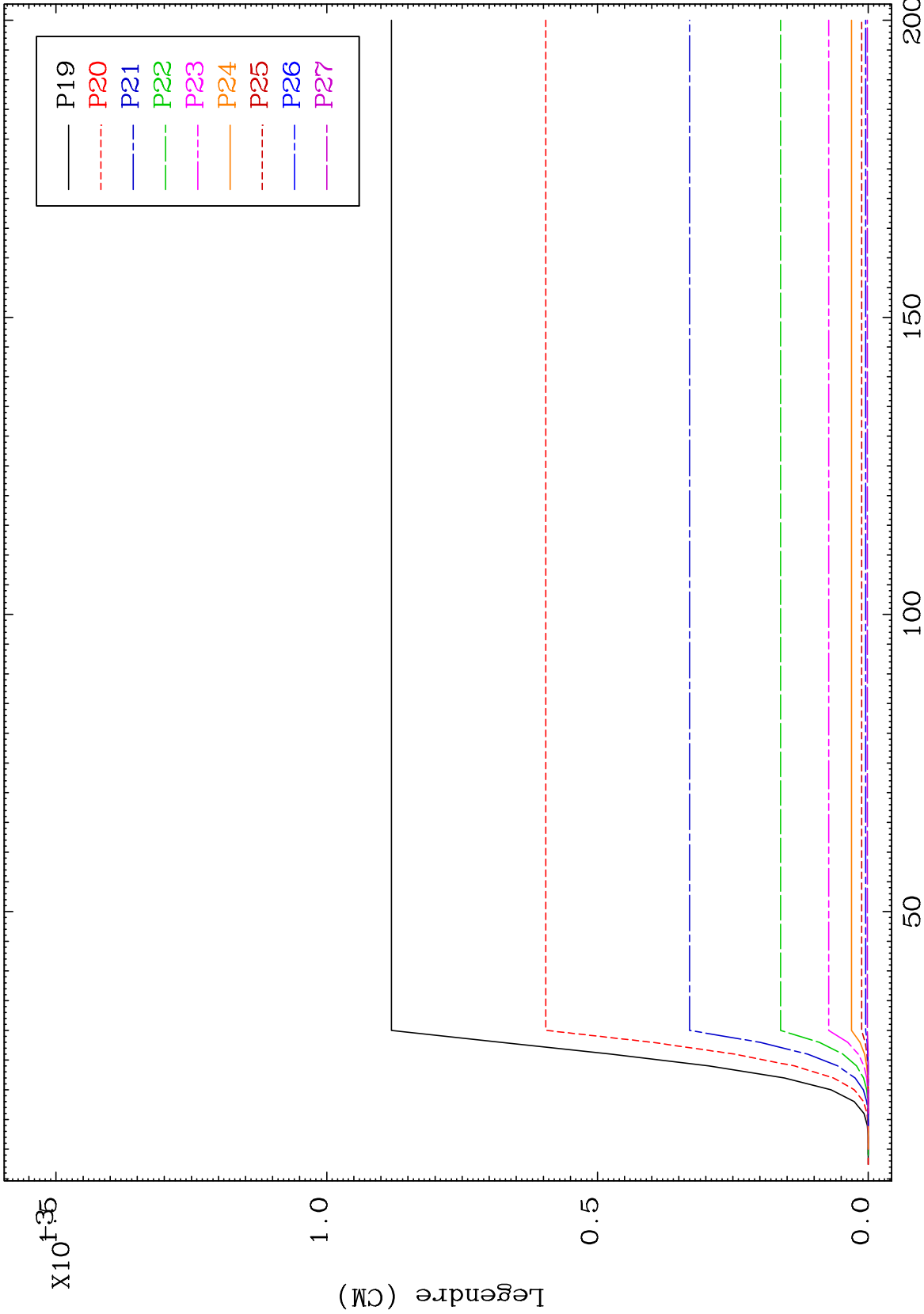
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



54

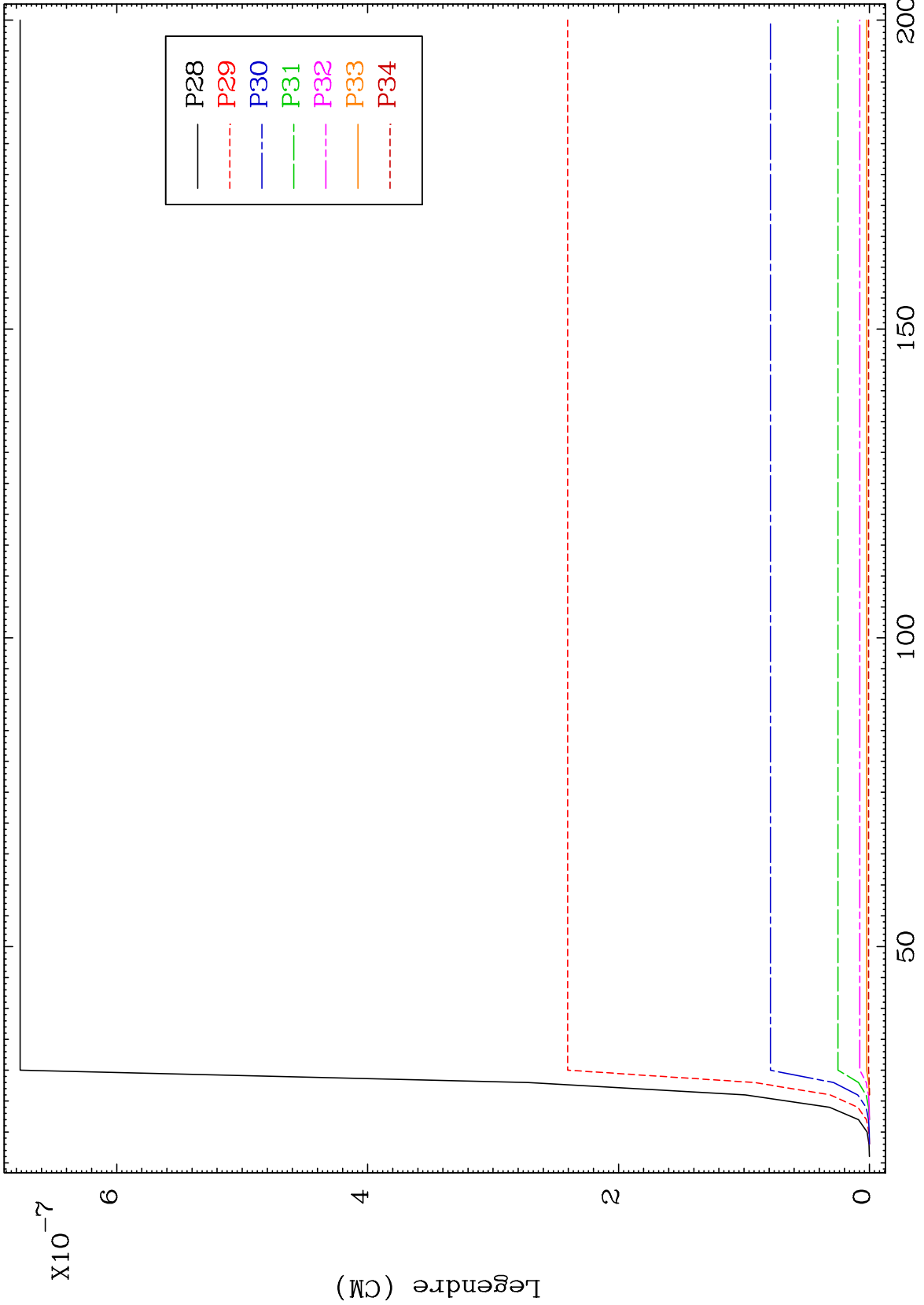
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



55

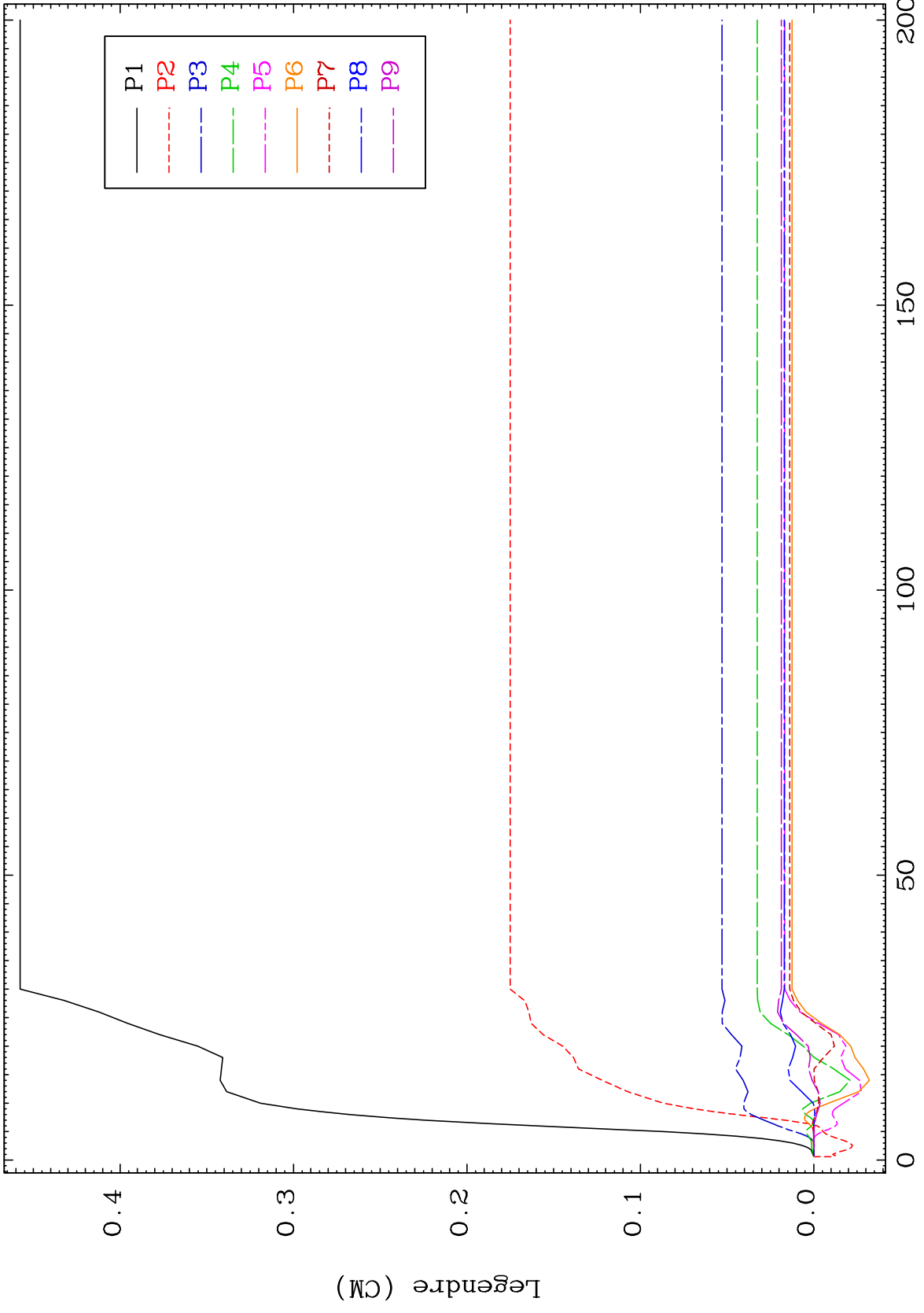
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



56

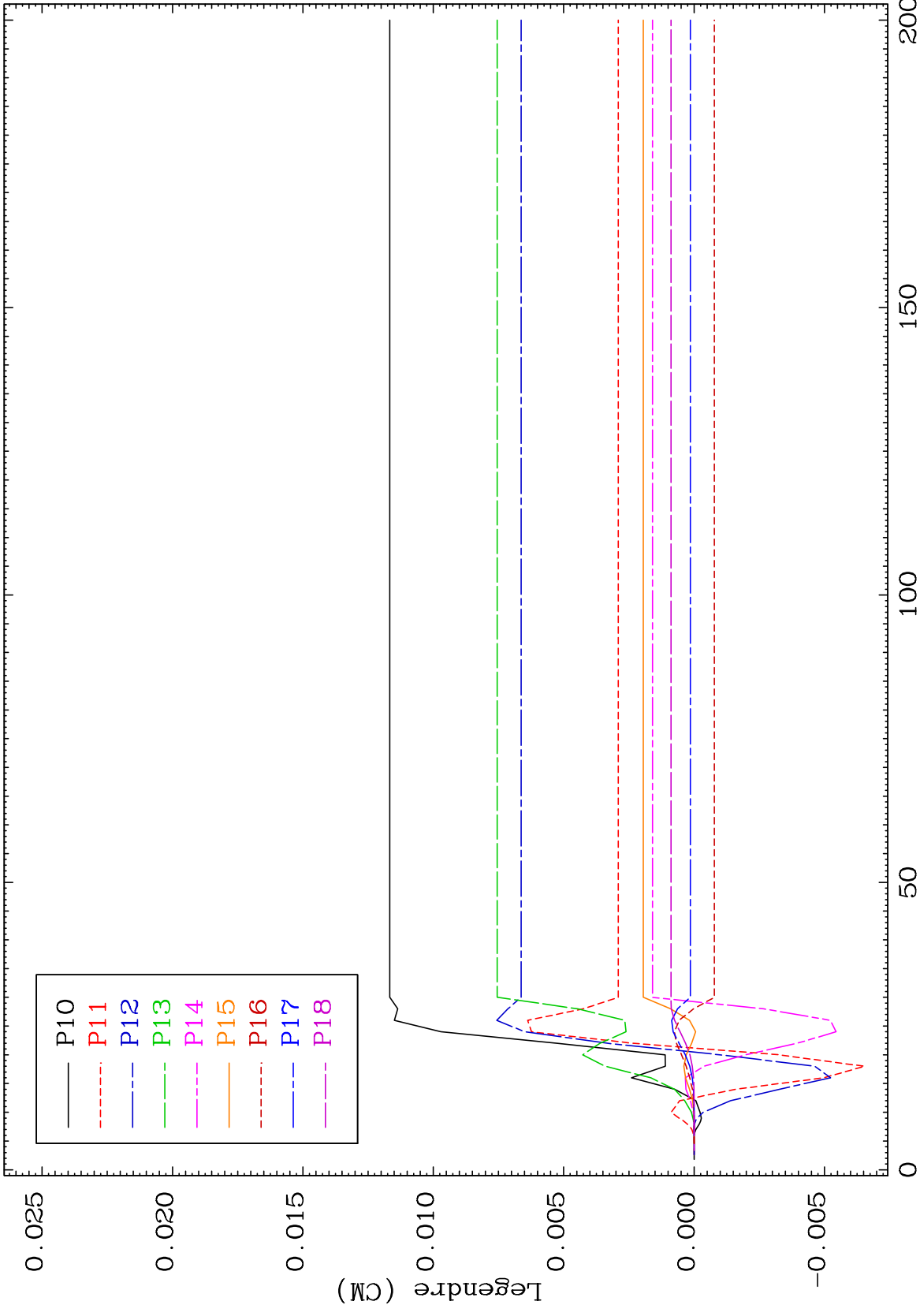
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



57

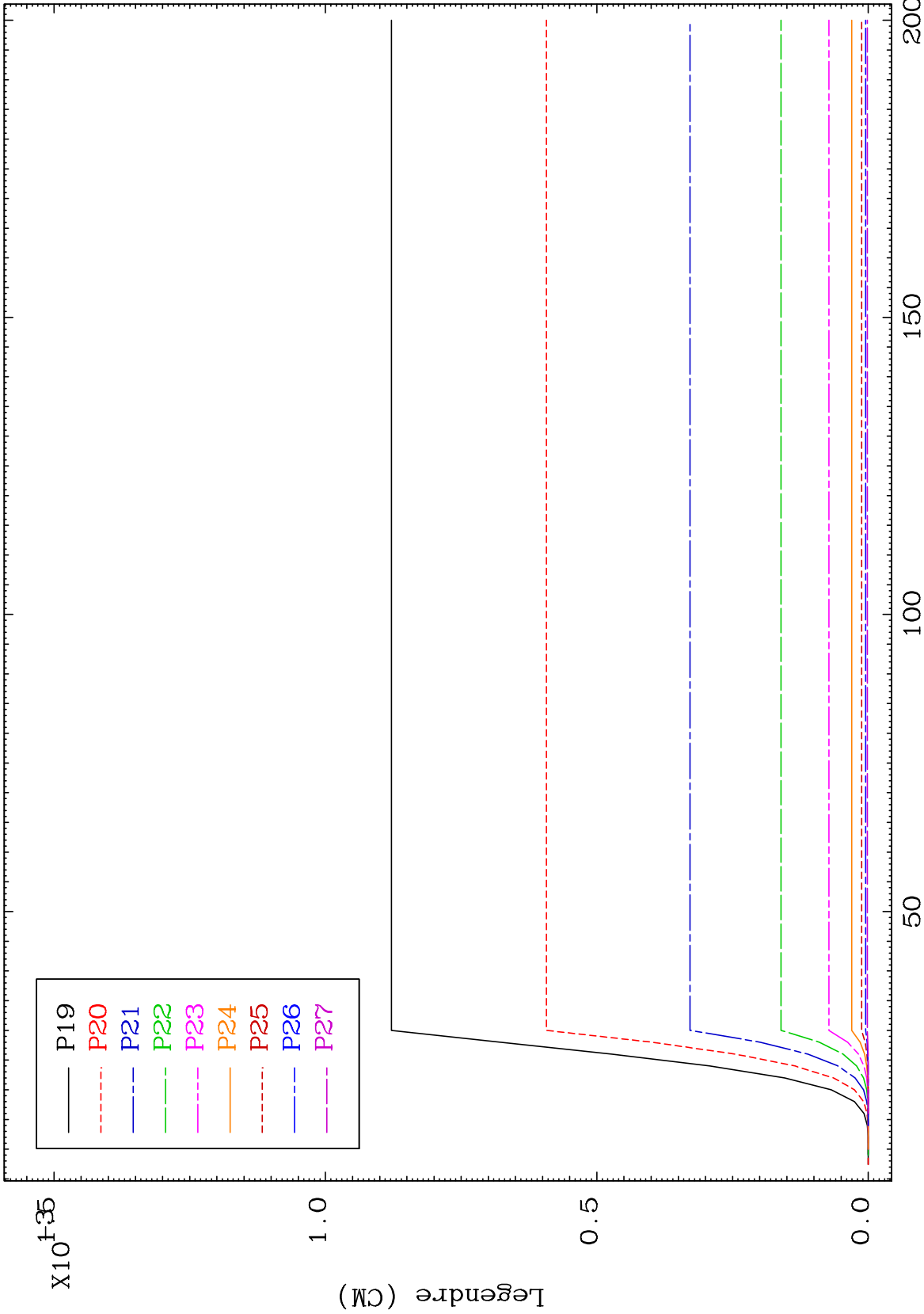
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



58

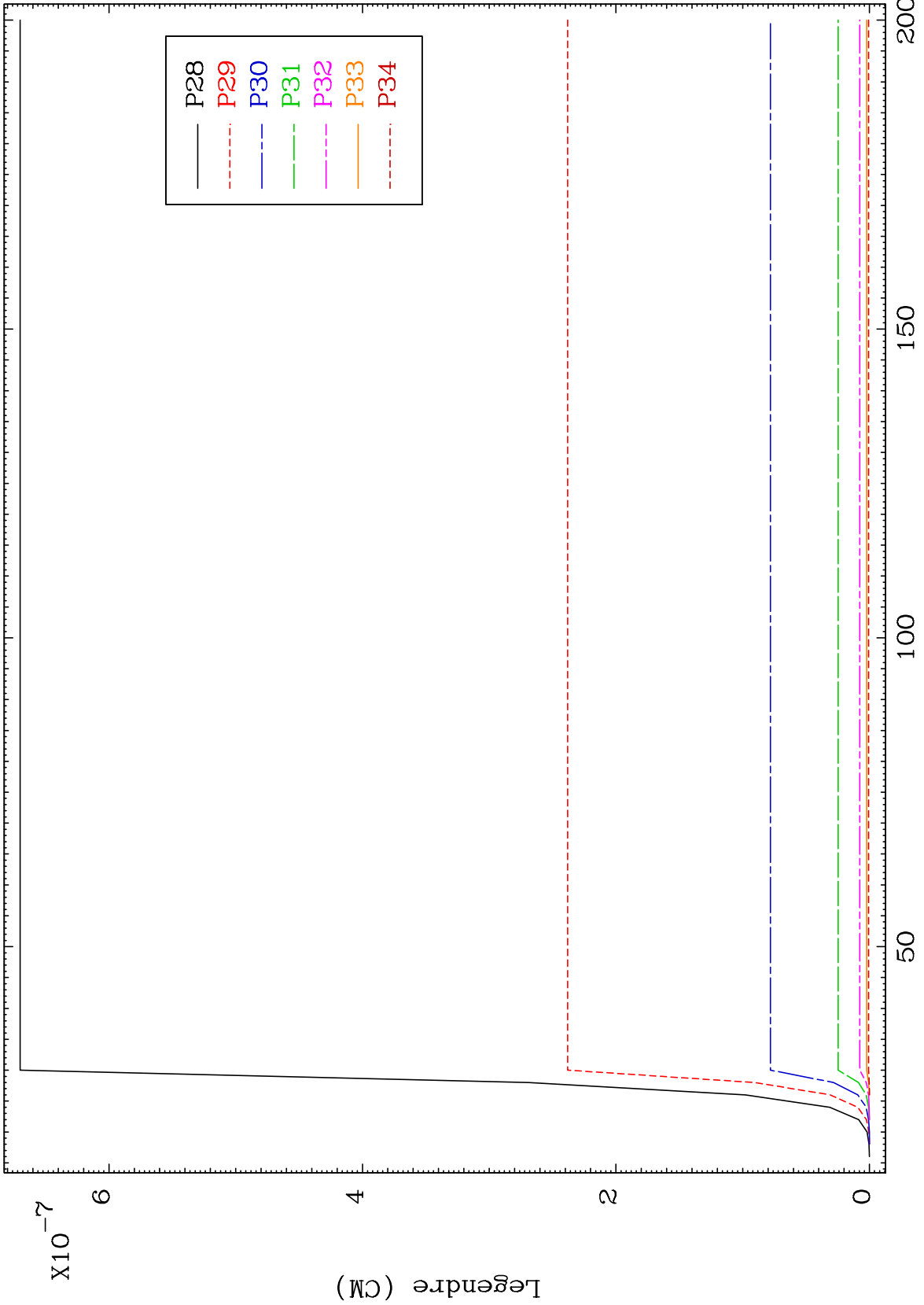
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



59

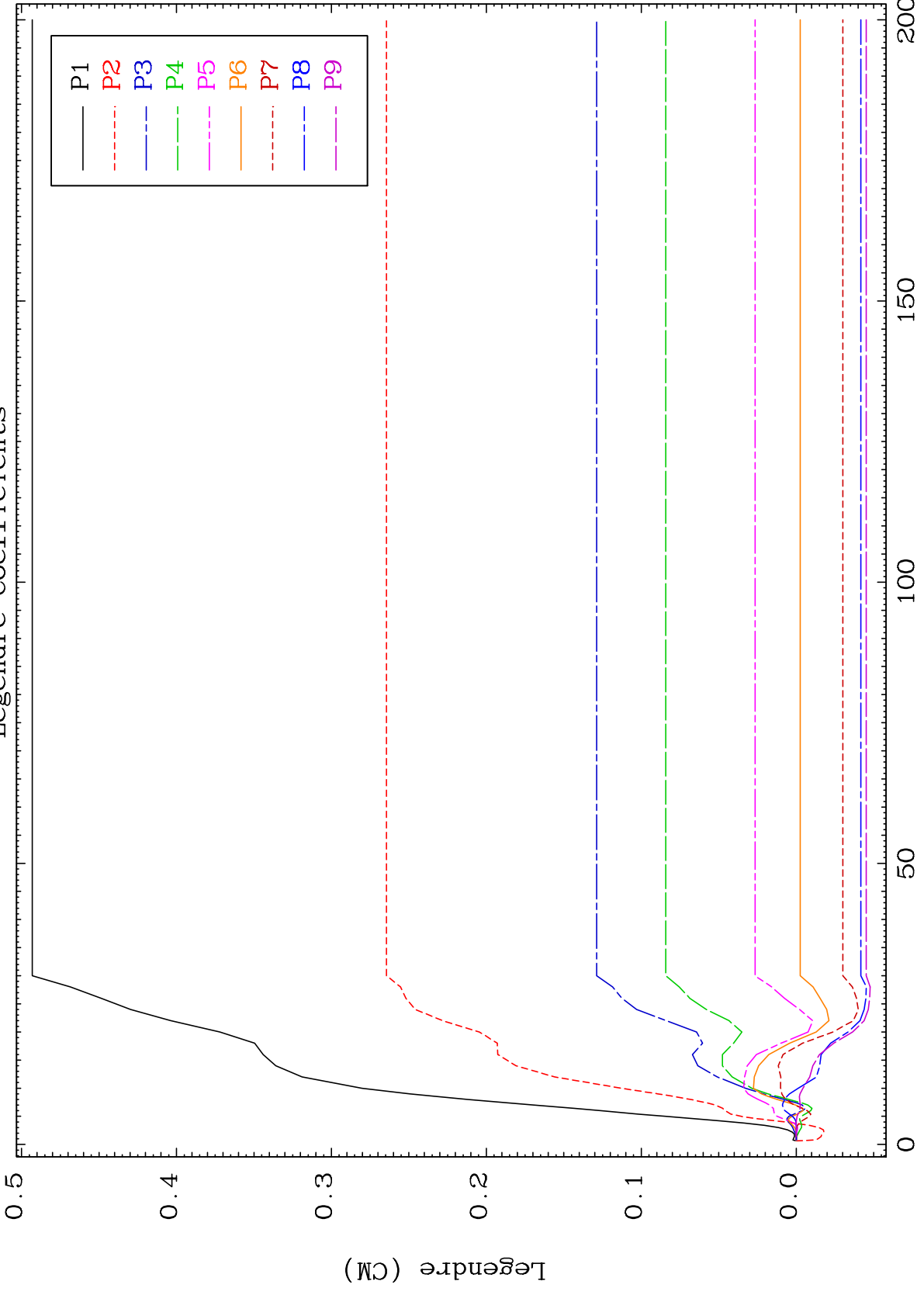
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



60

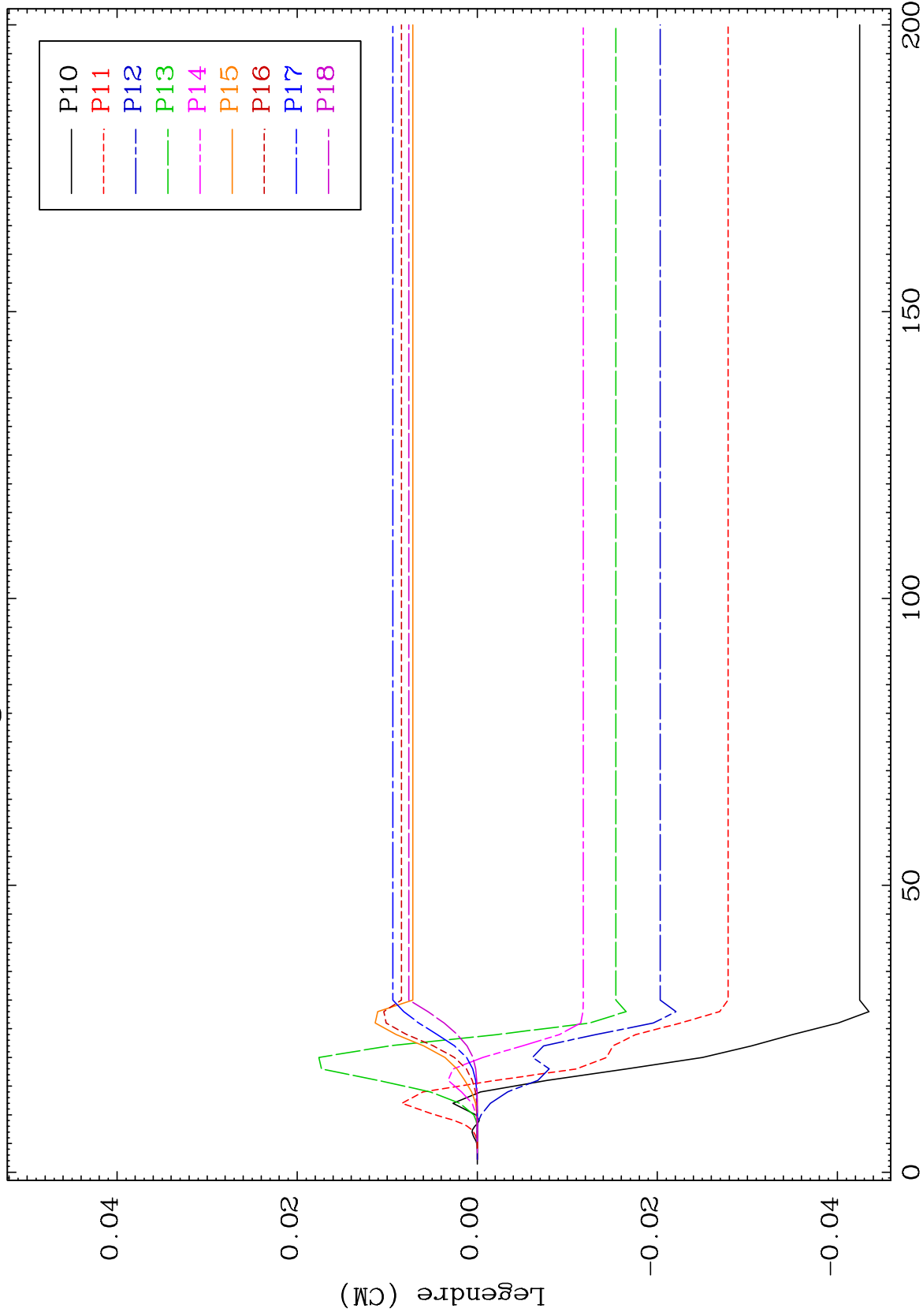
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



61

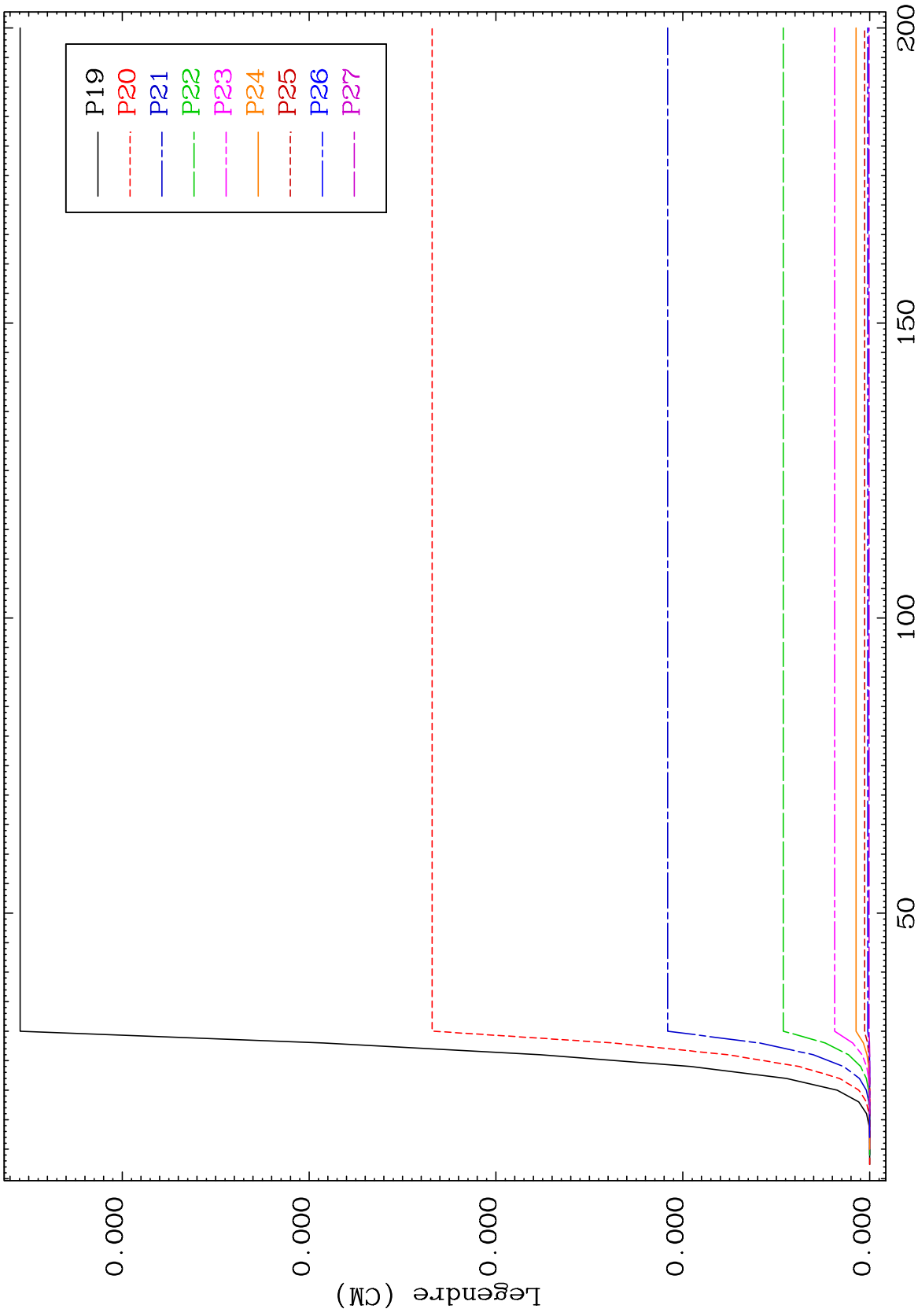
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



62

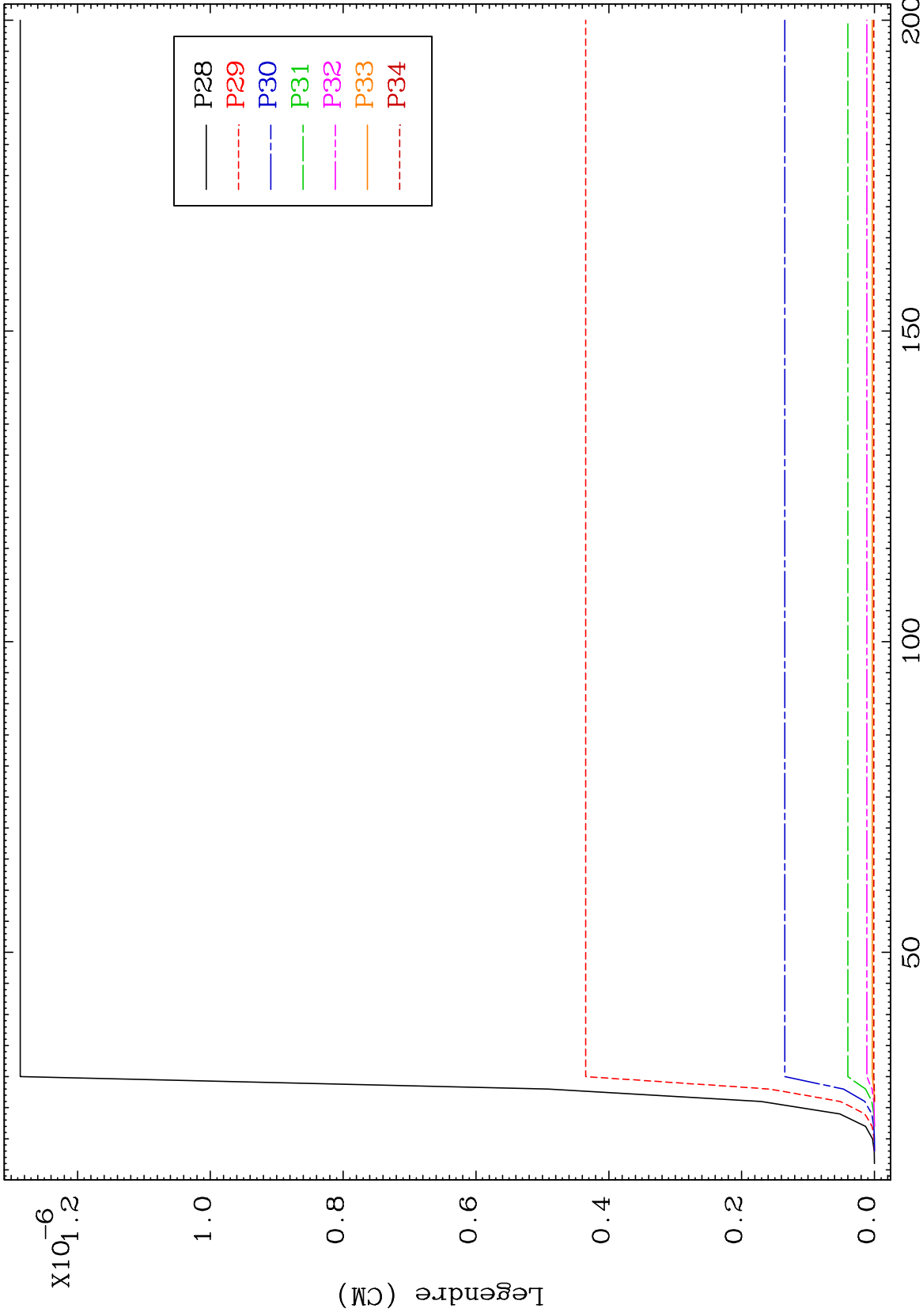
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



63

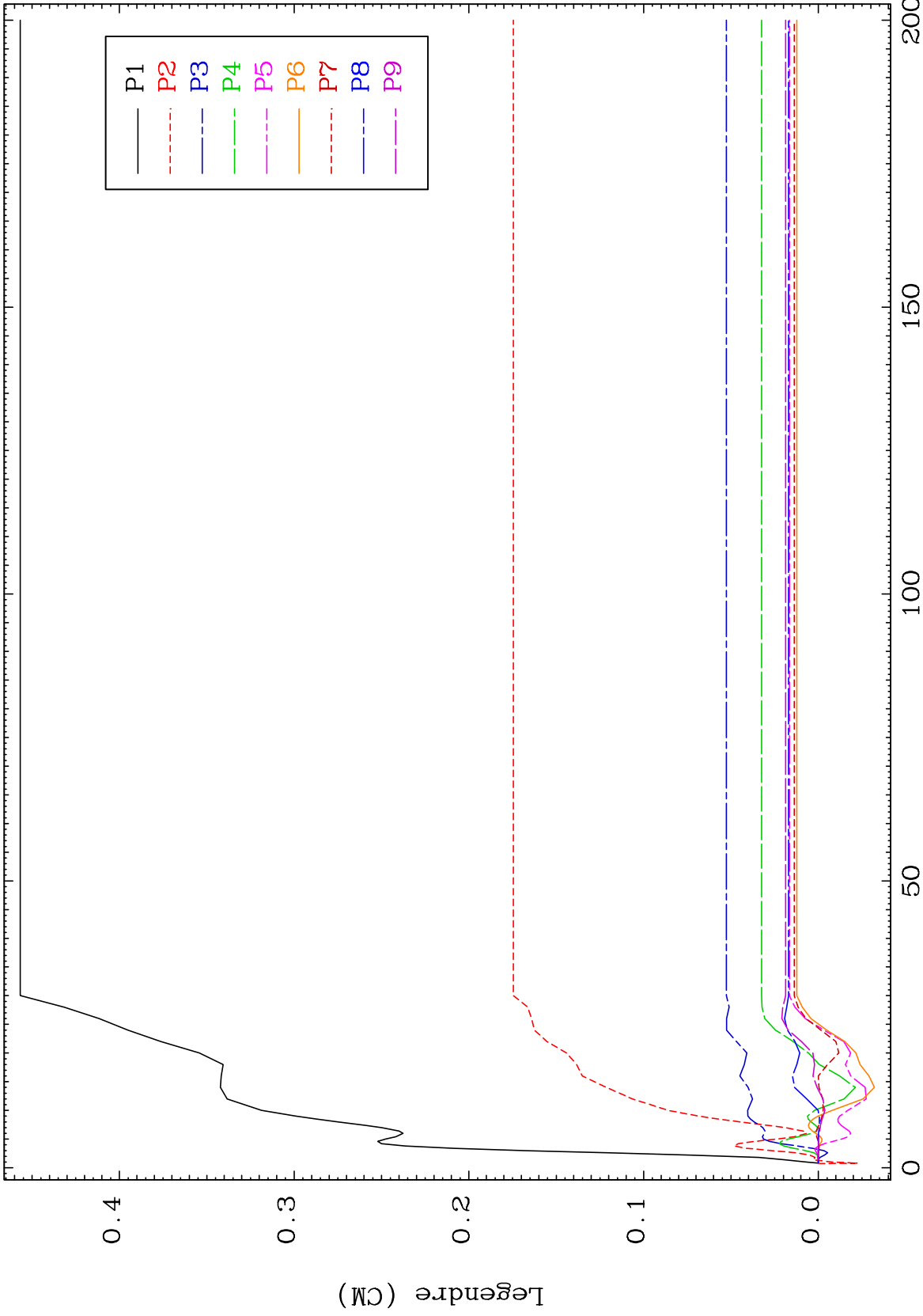
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



64

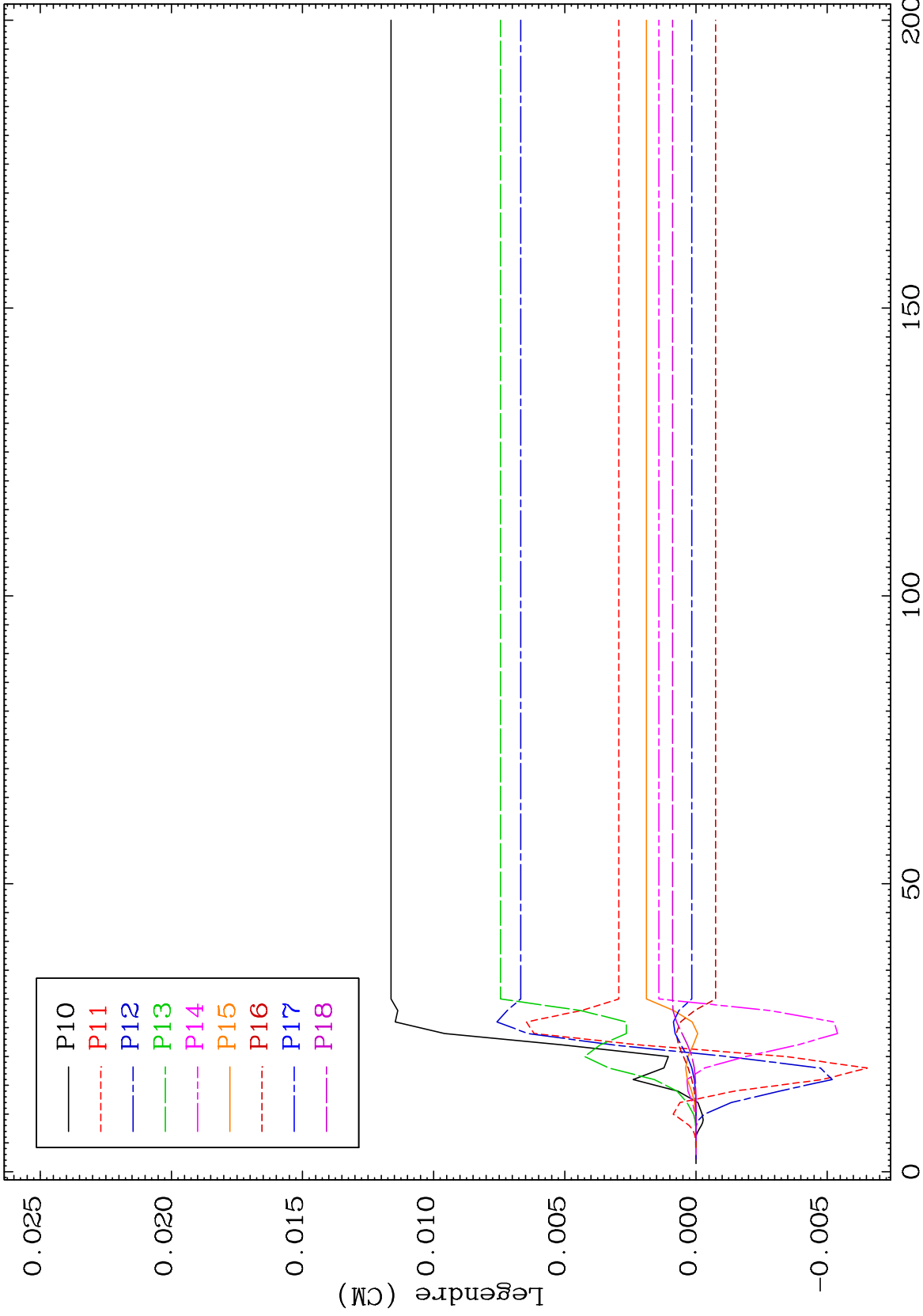
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



65

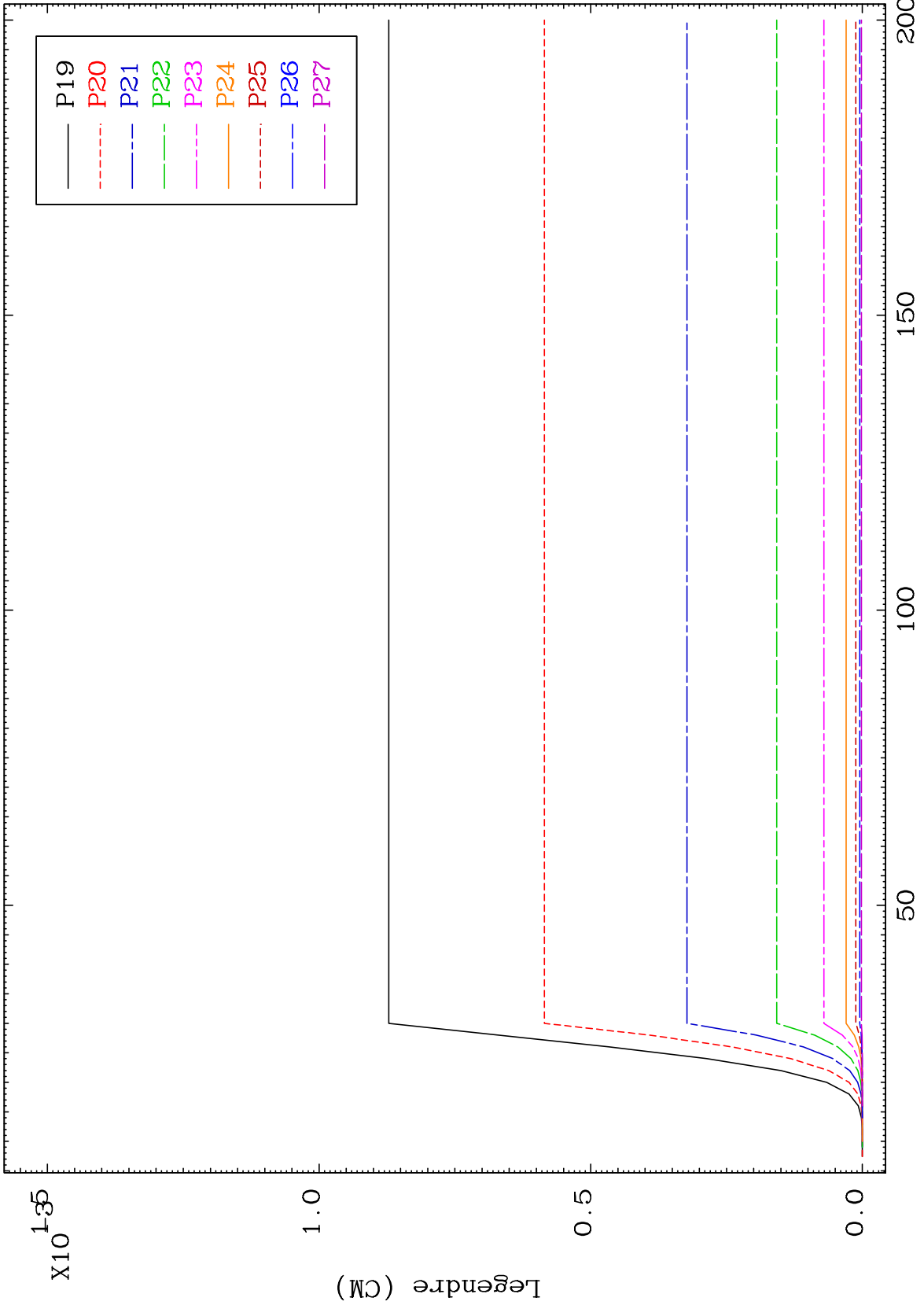
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



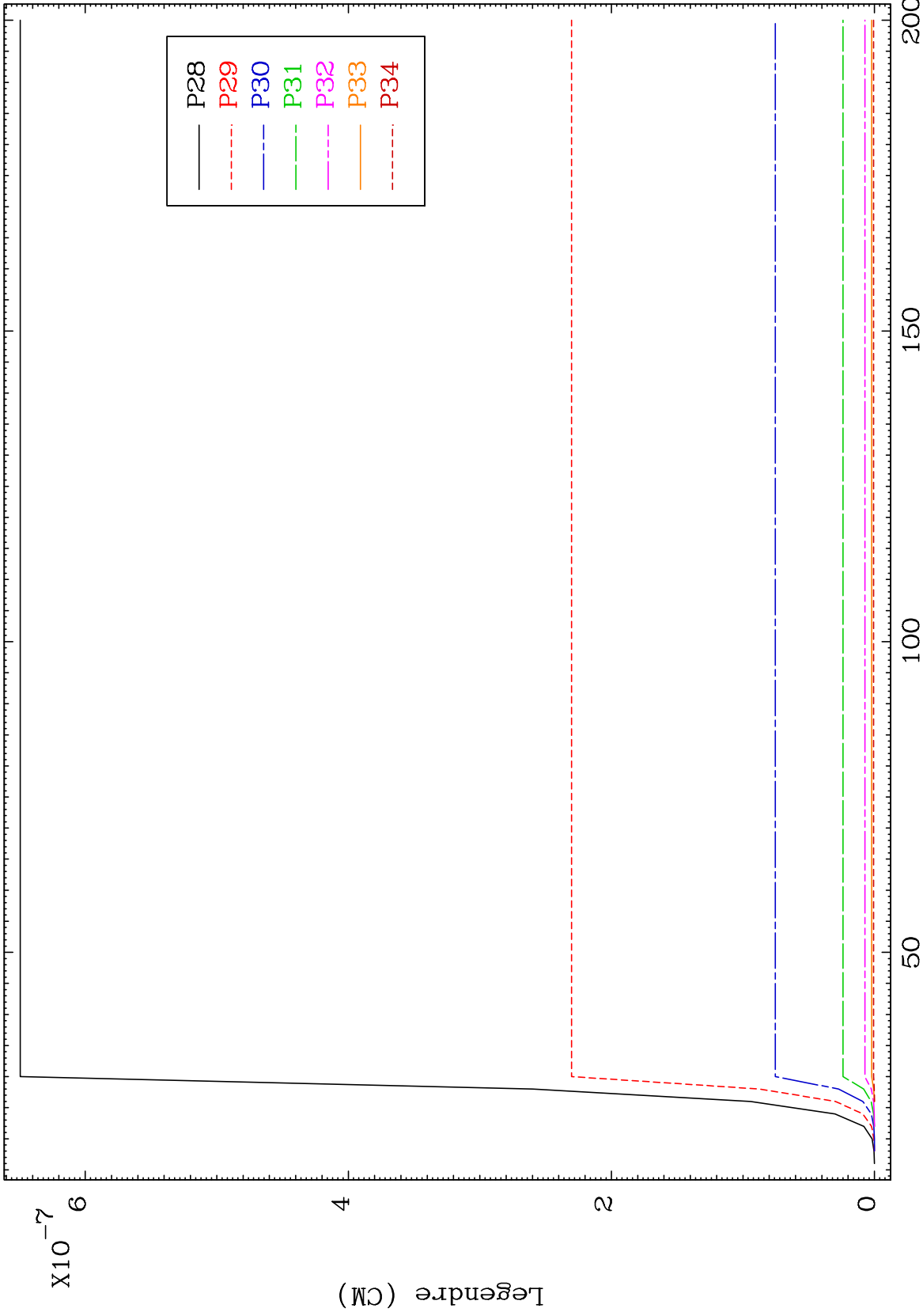
66

41-Nb-103

MAT 4155

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

41-Nb-103



67

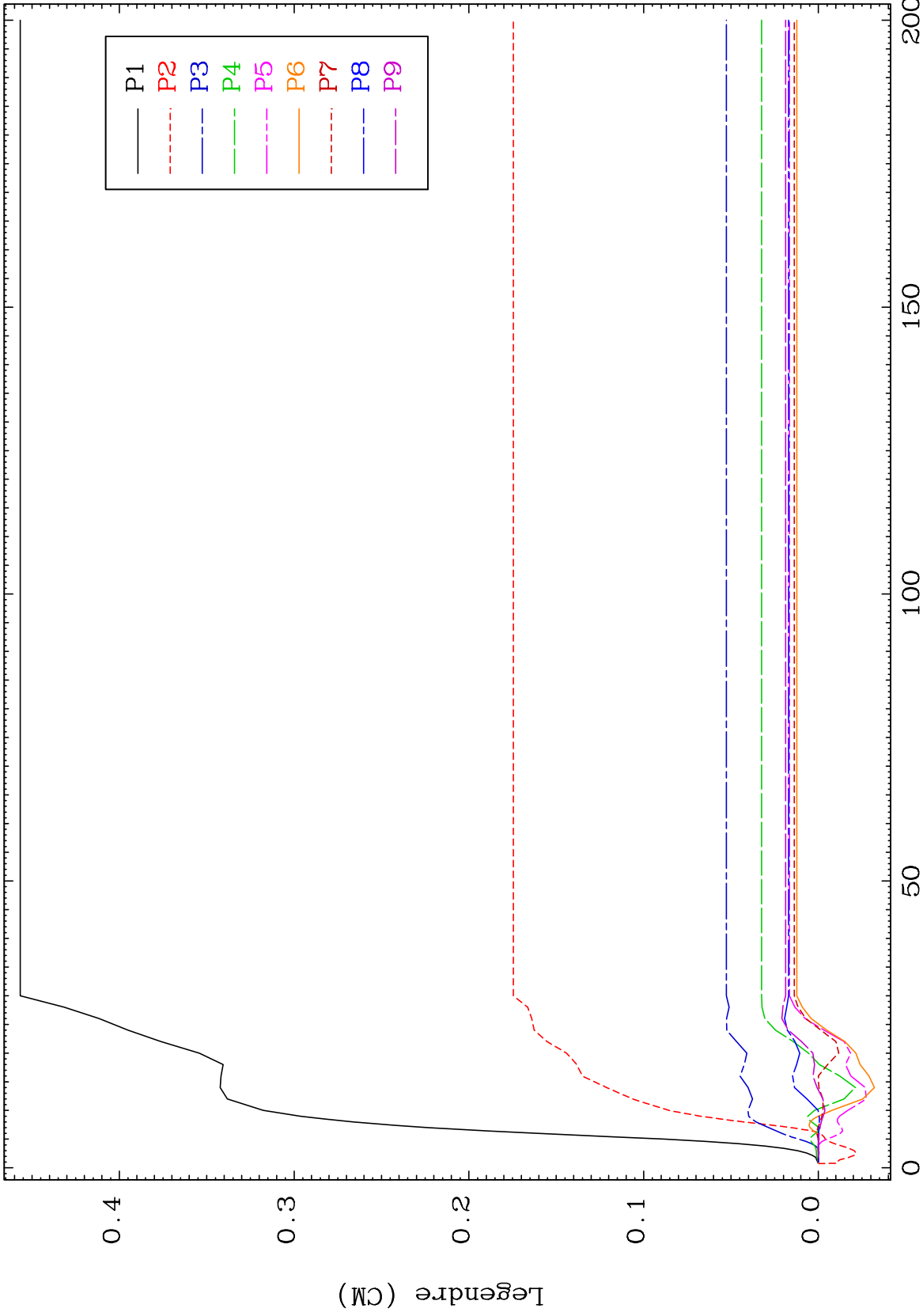
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



68

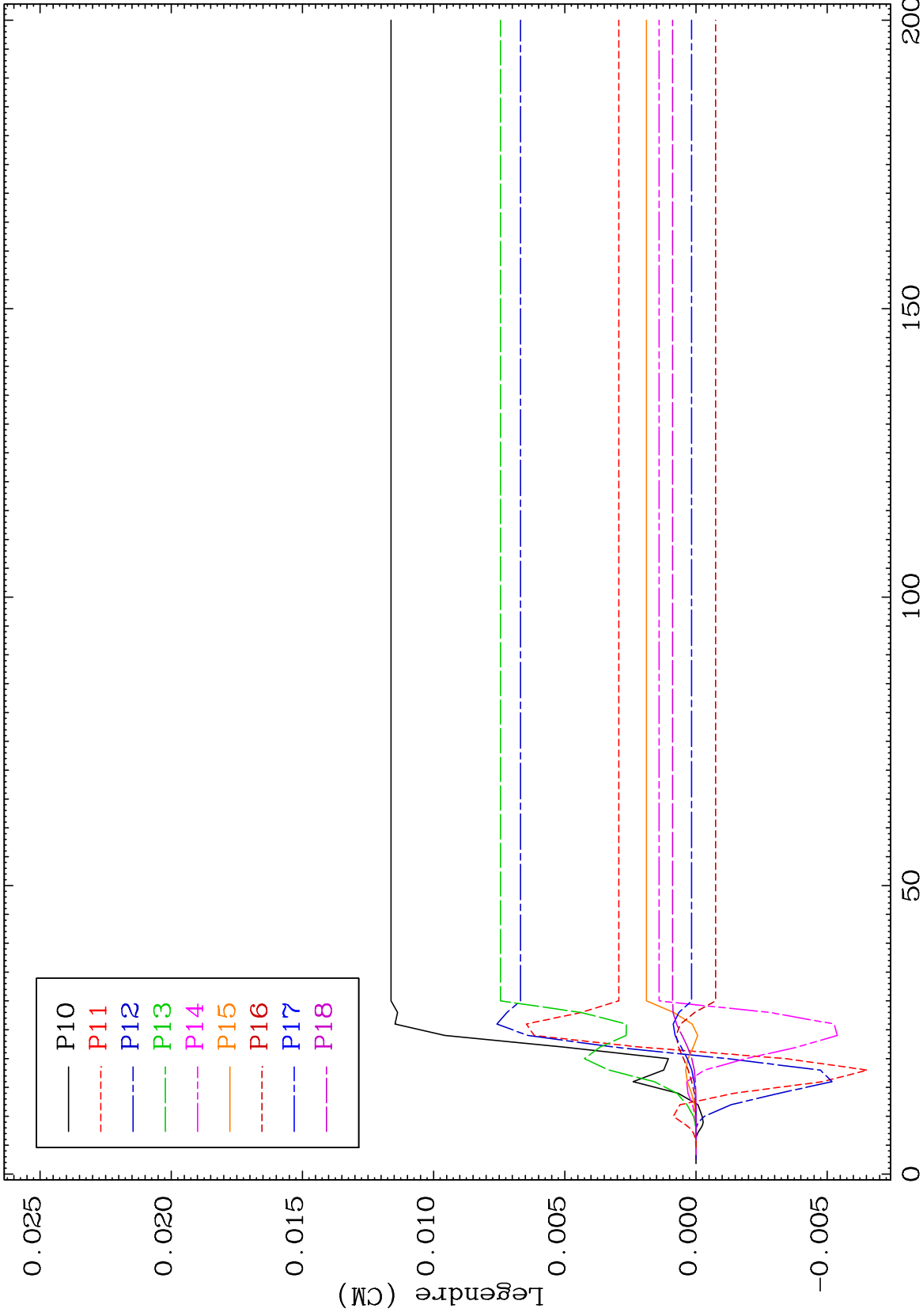
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



69

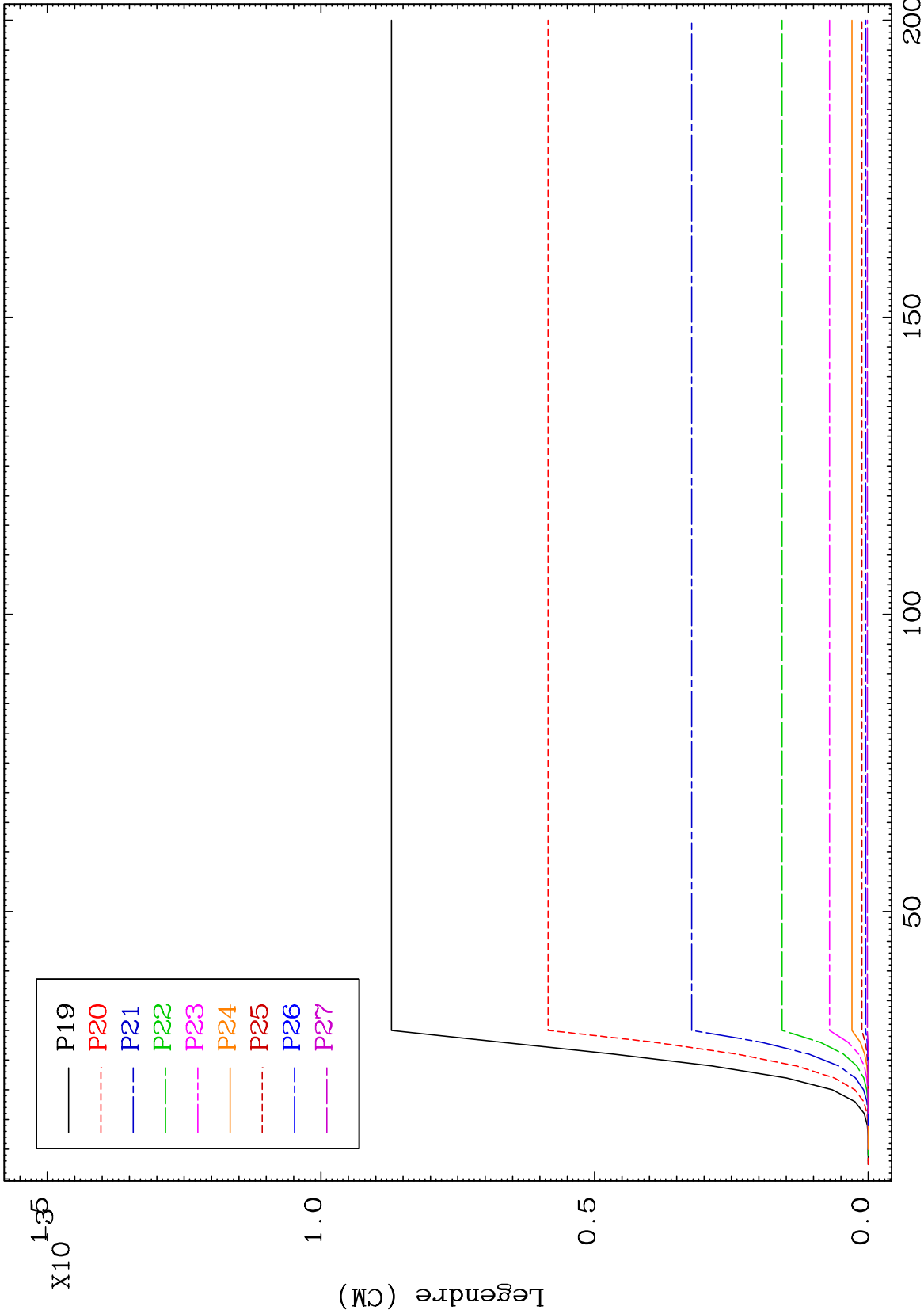
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



70

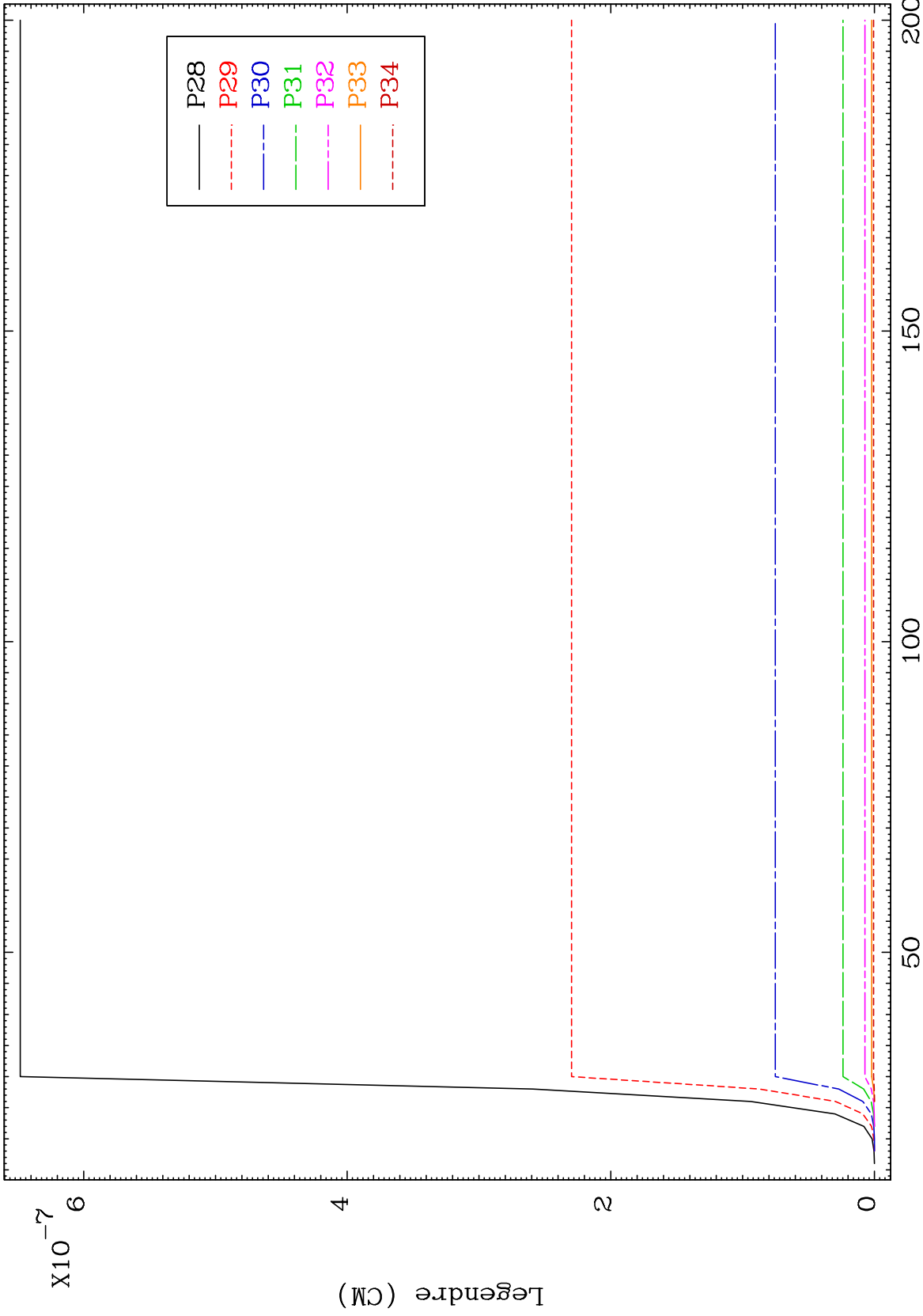
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



71

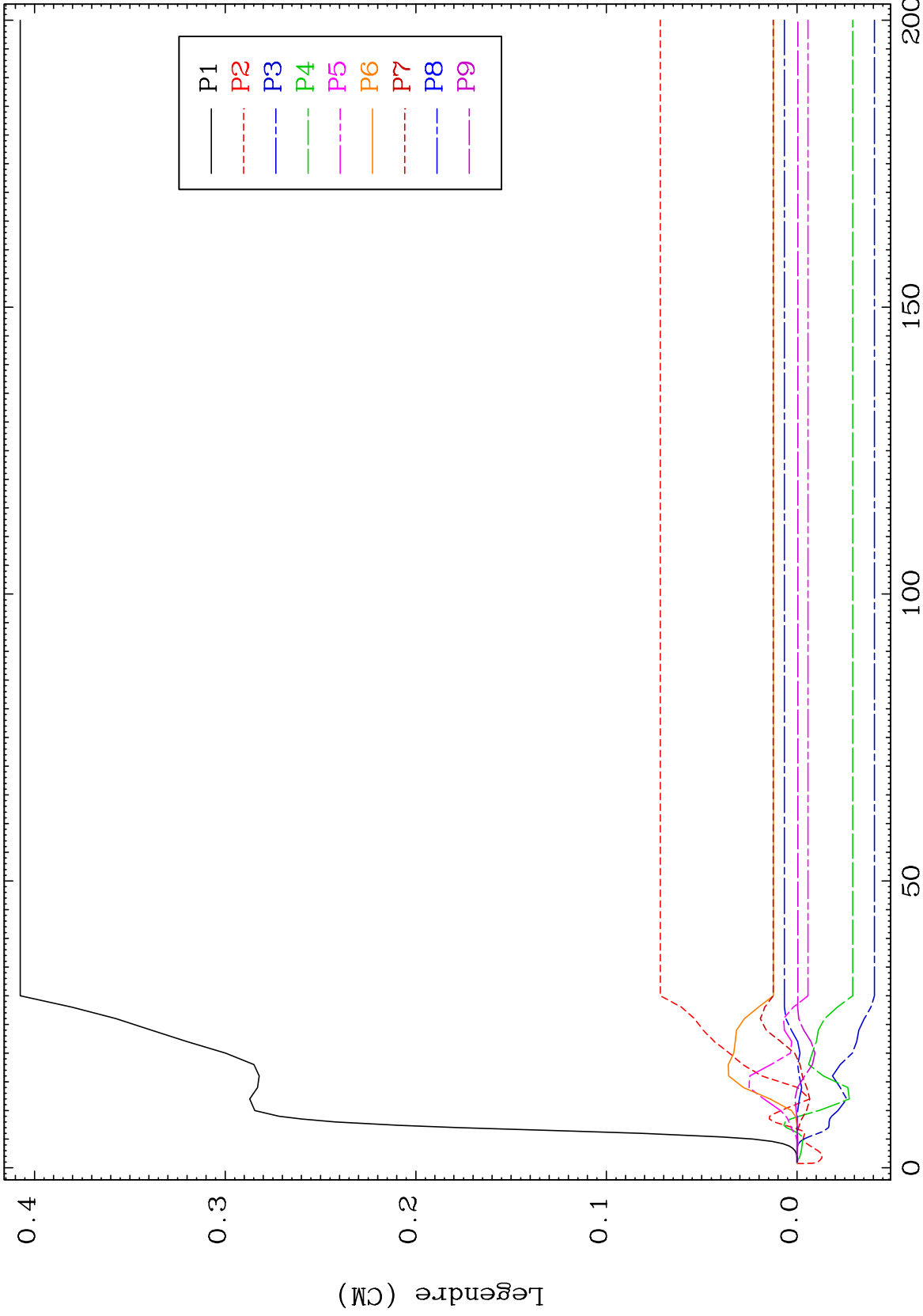
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



72

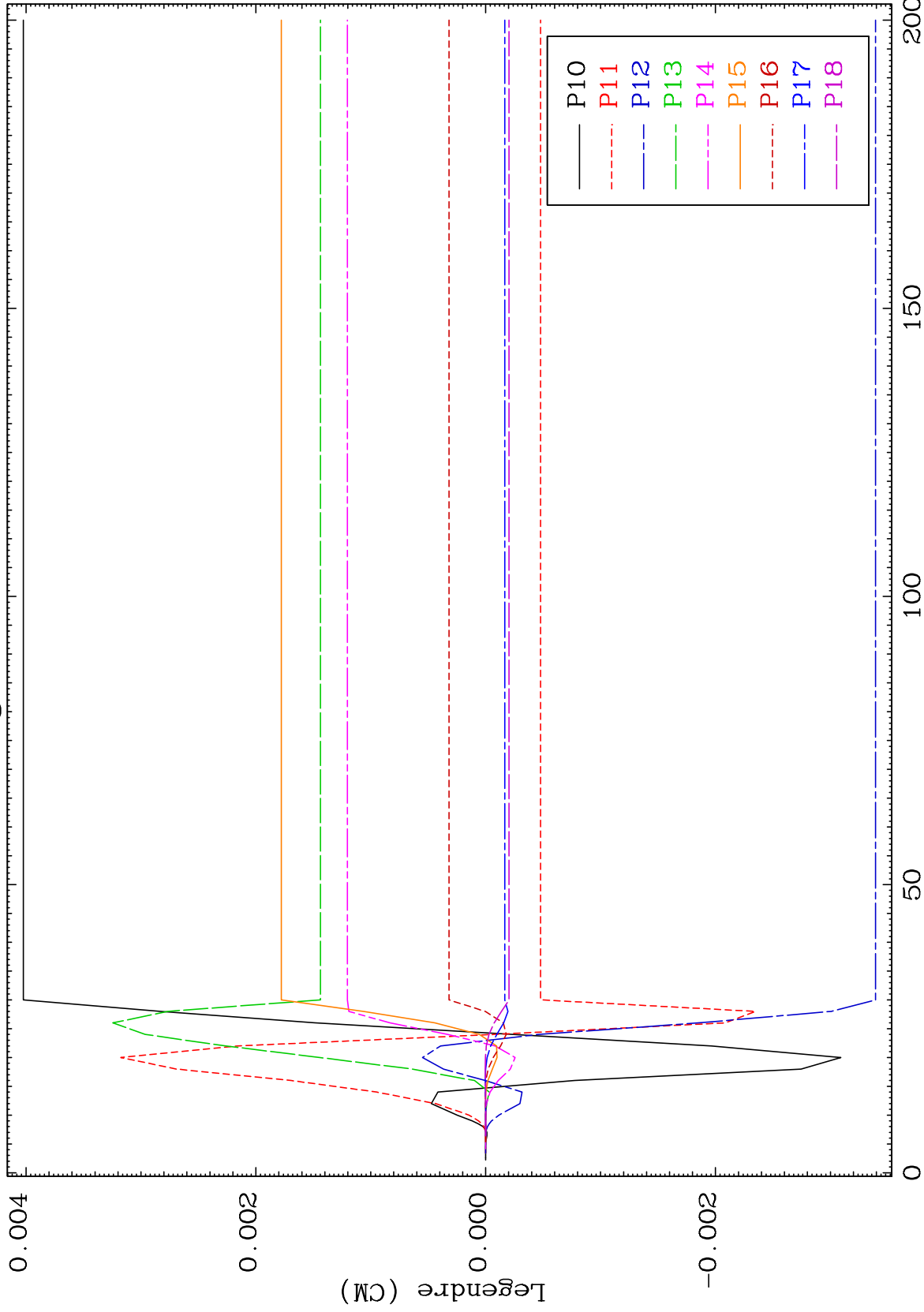
41-Nb-103

41-Nb-103

MAT 4155

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

41-Nb-103



73

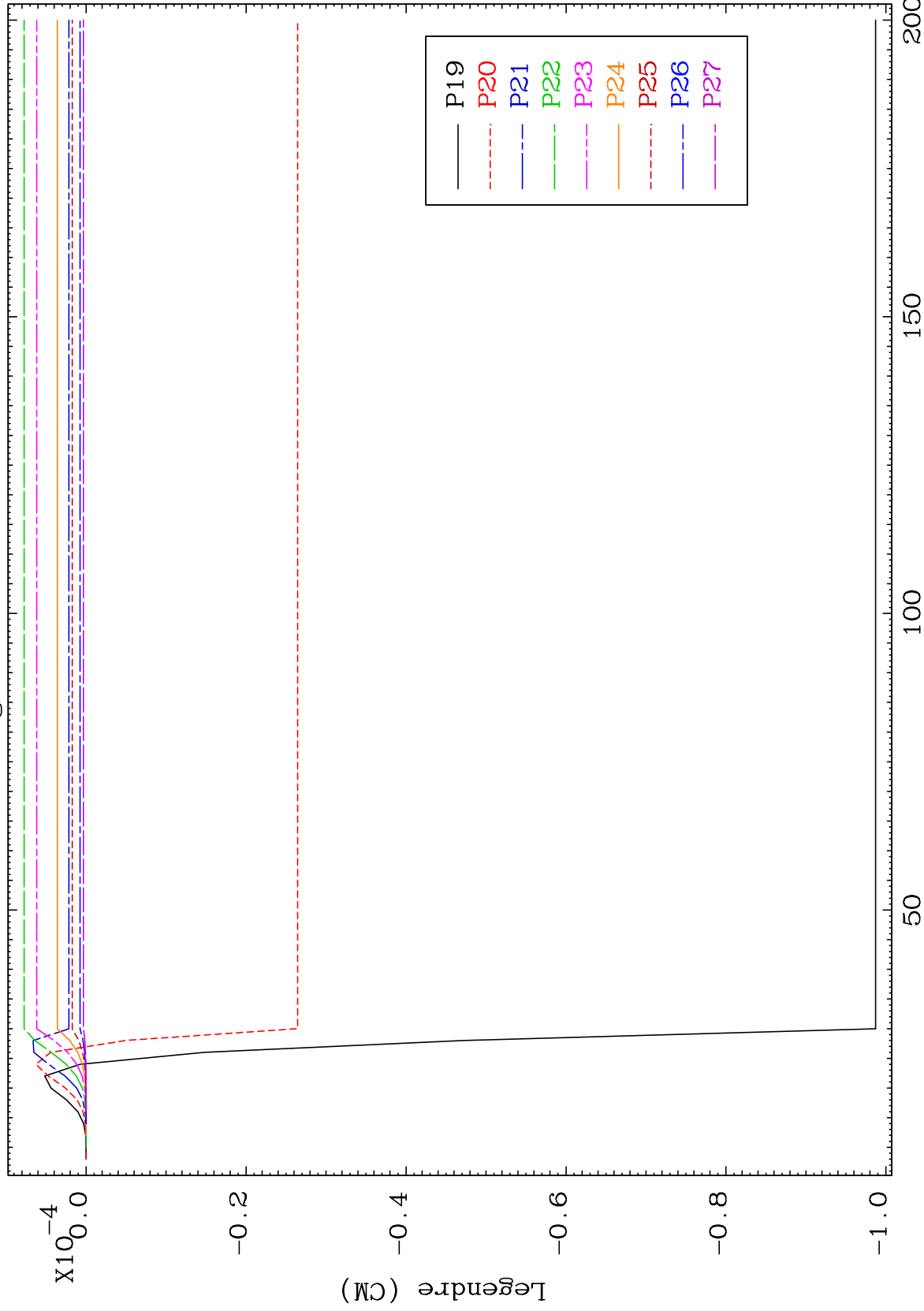
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



74

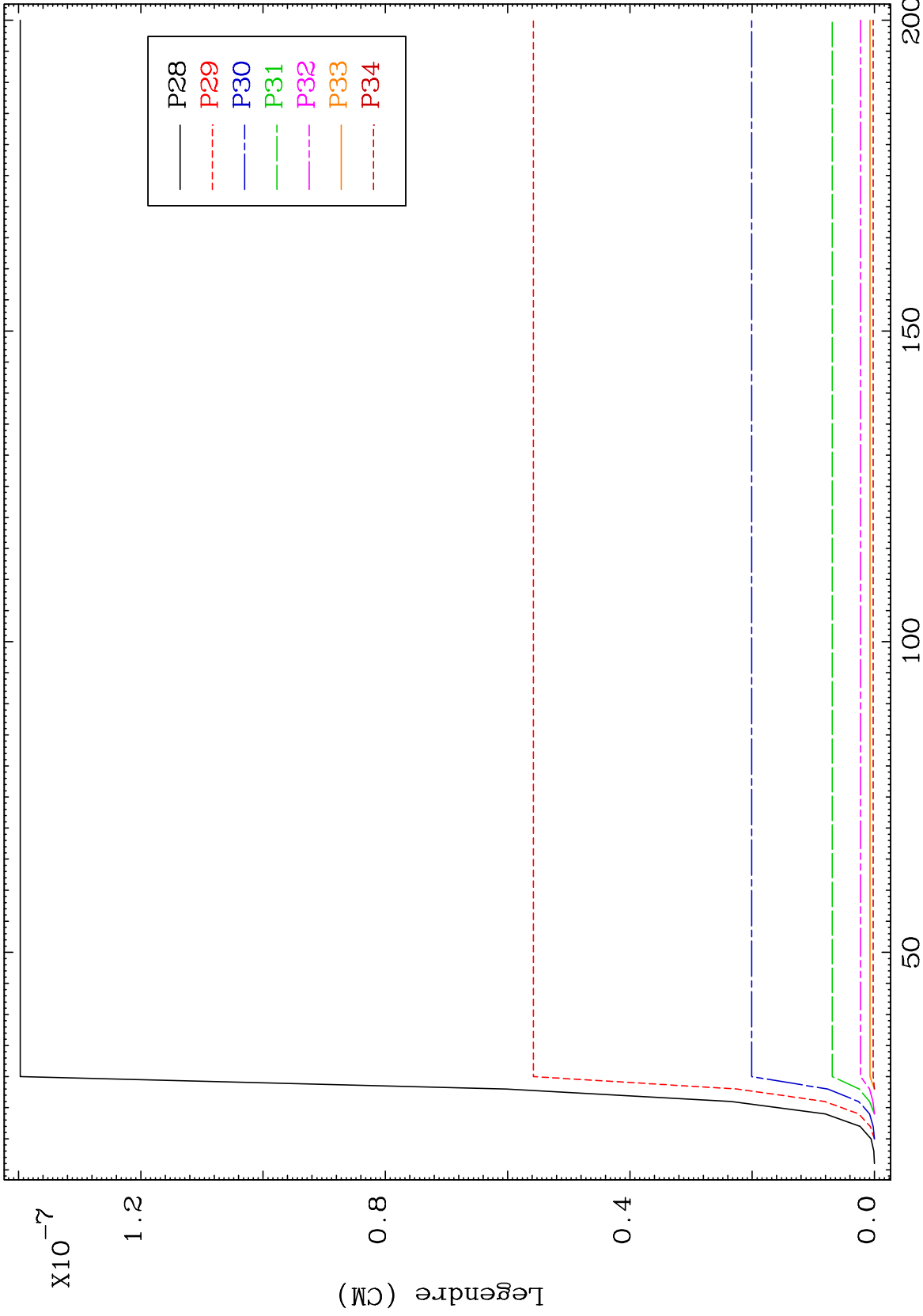
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



75

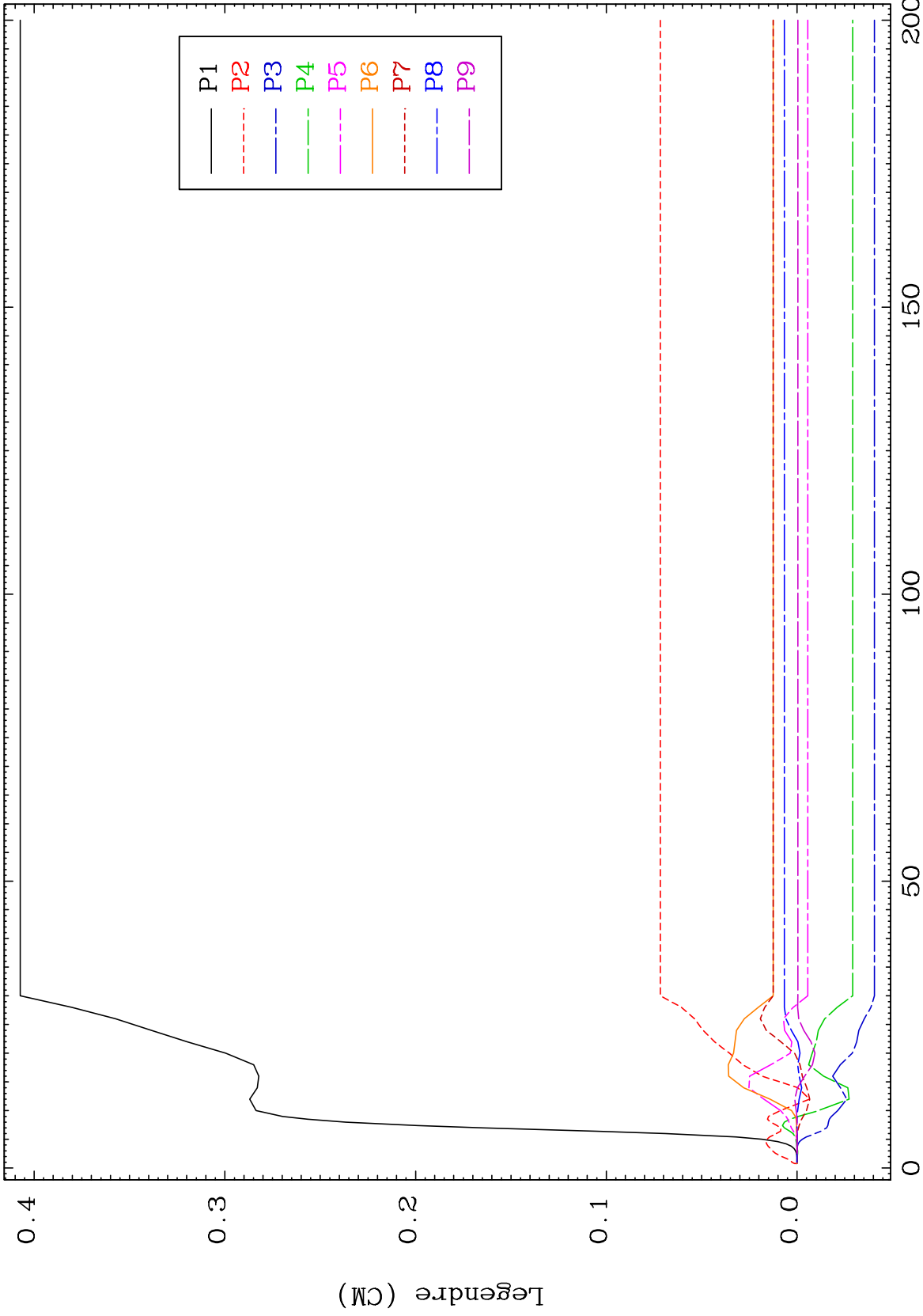
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



76

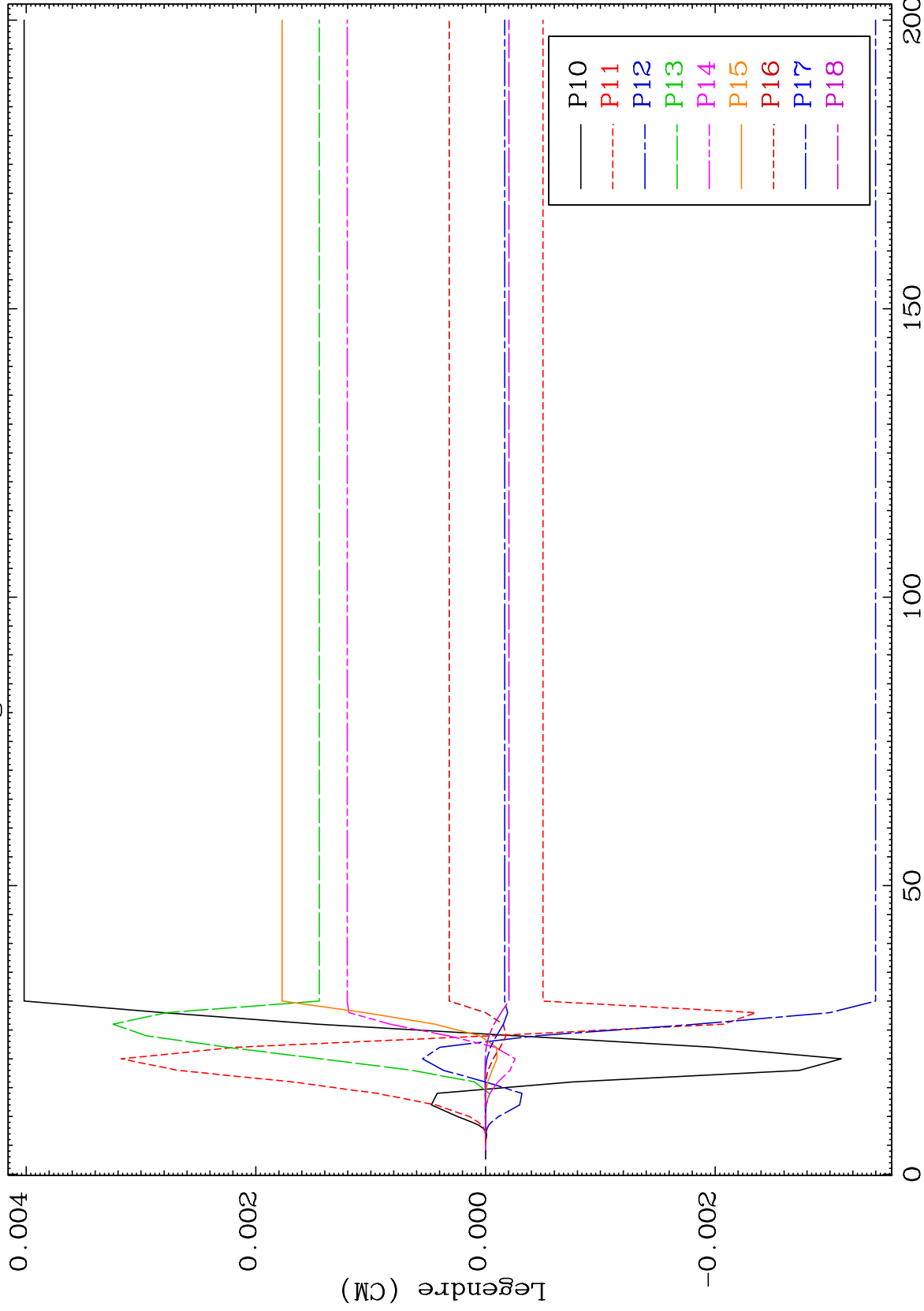
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



77

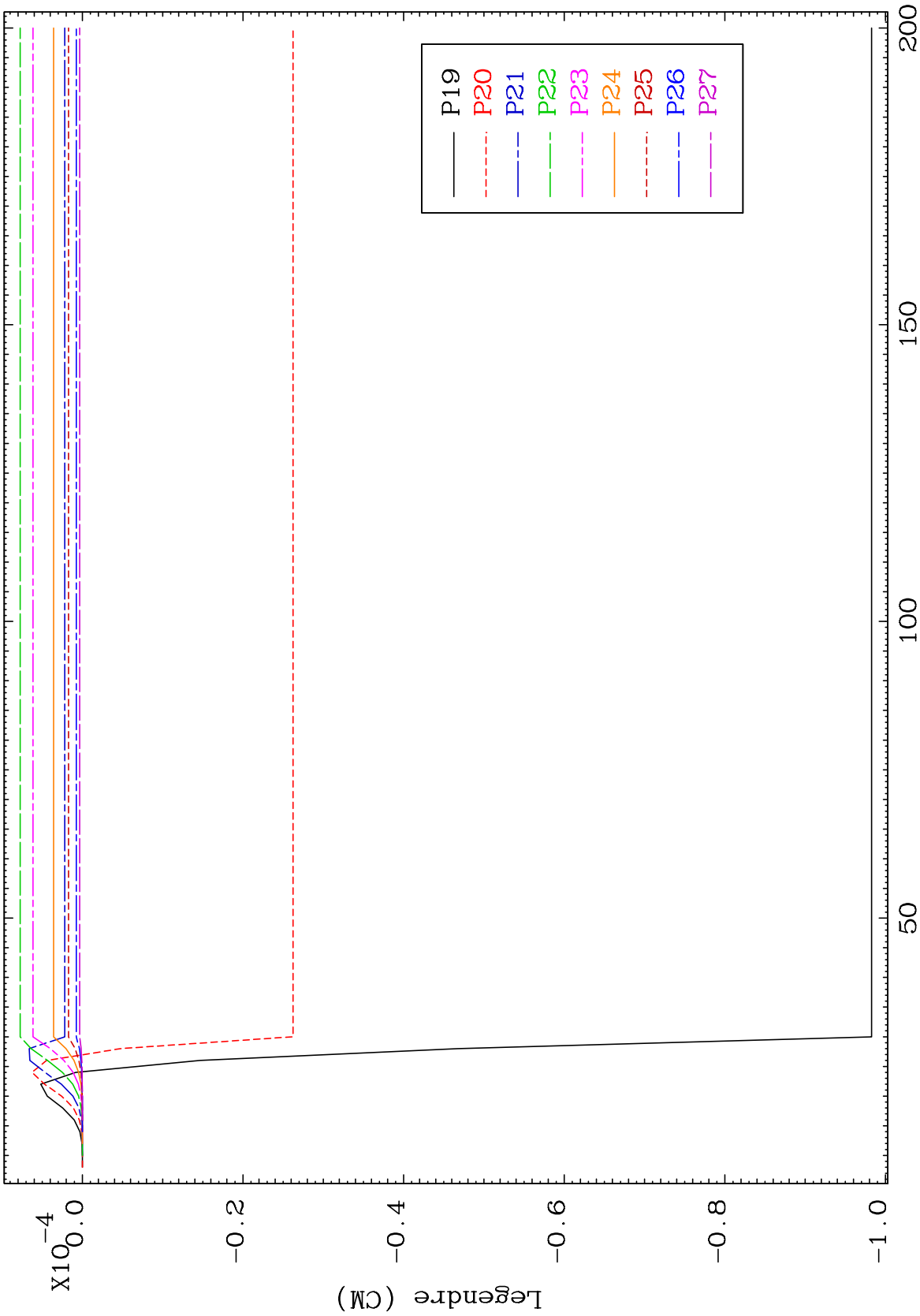
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



78

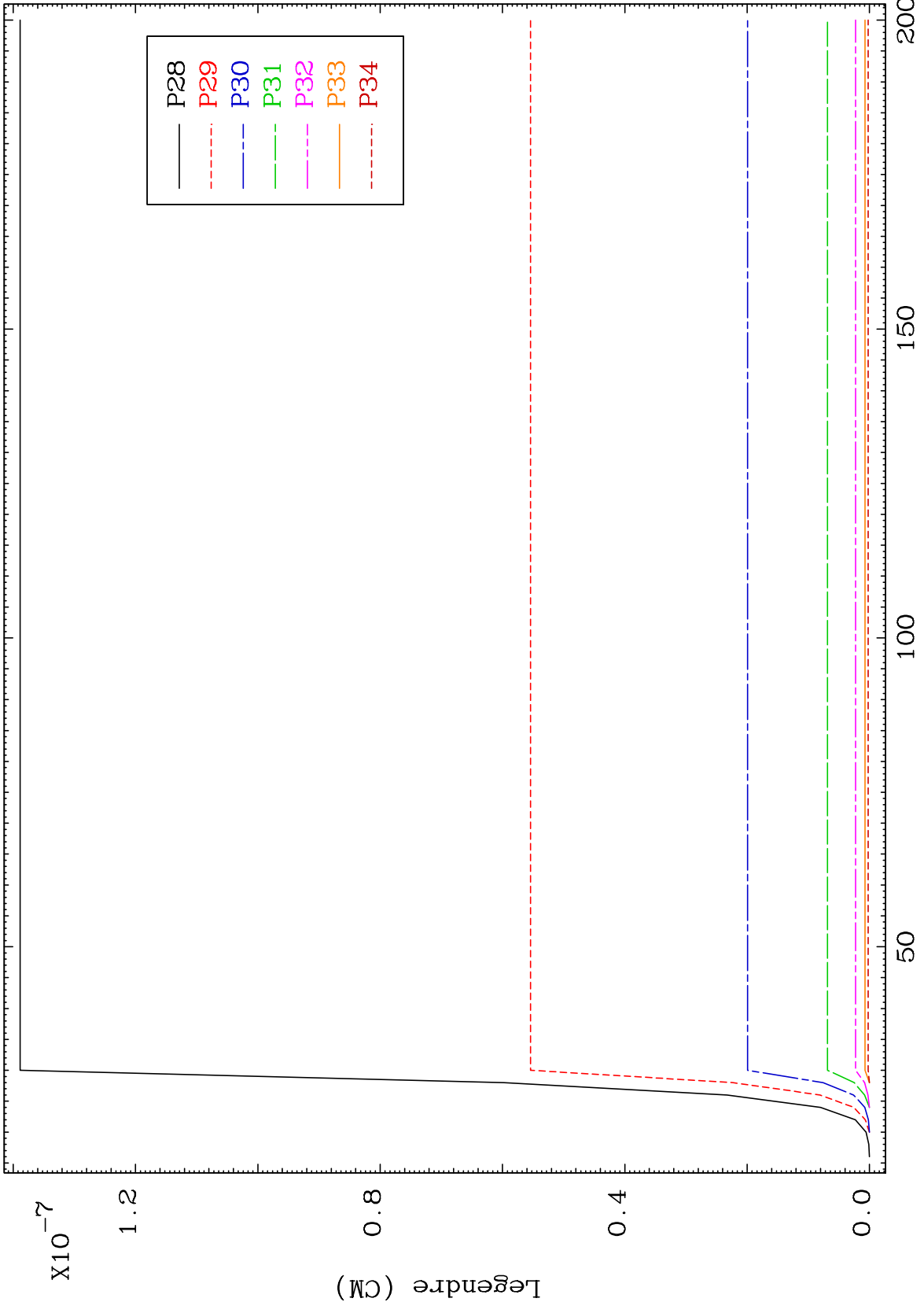
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



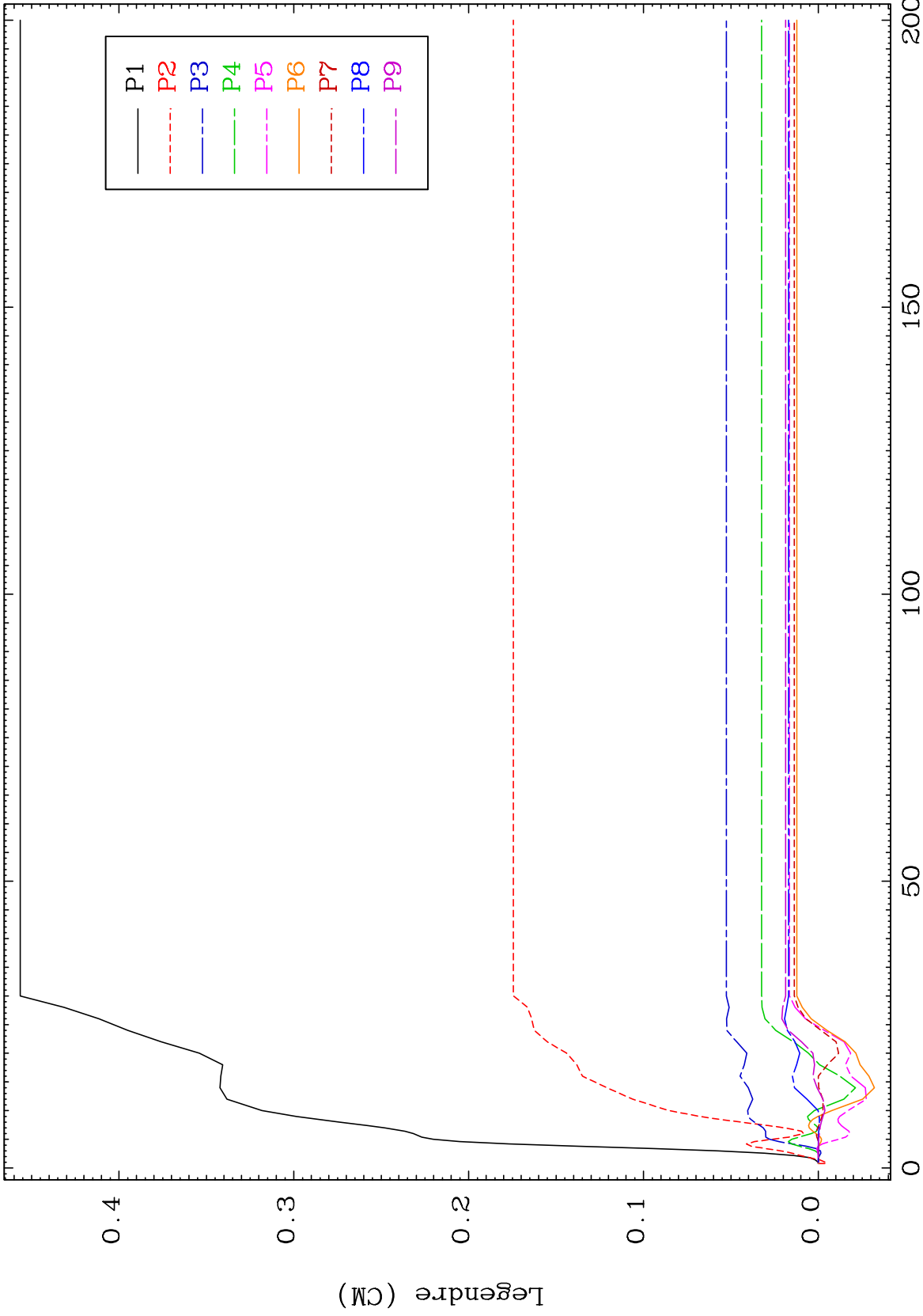
79

41-Nb-103

MAT 4155

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

41-Nb-103



80

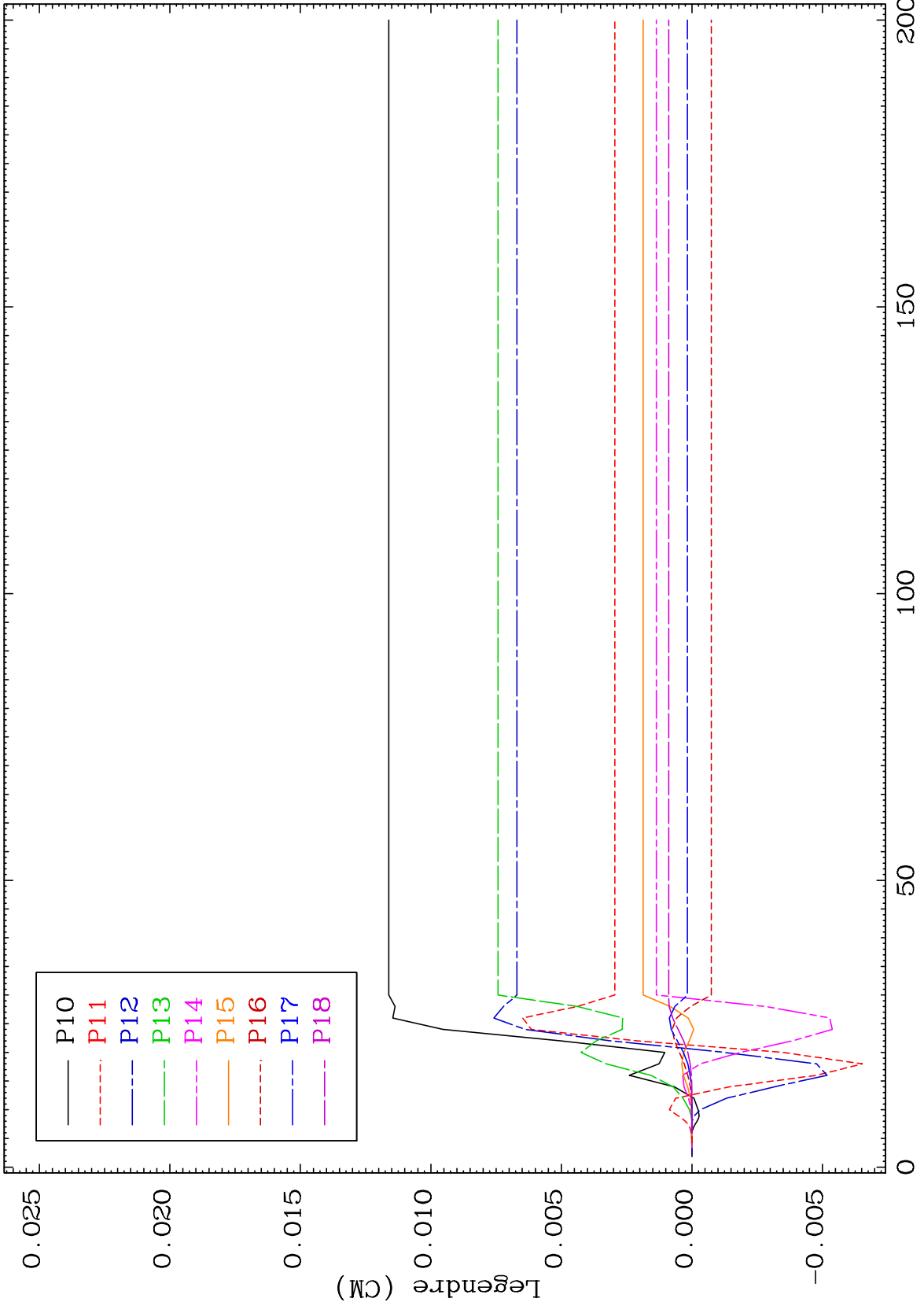
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

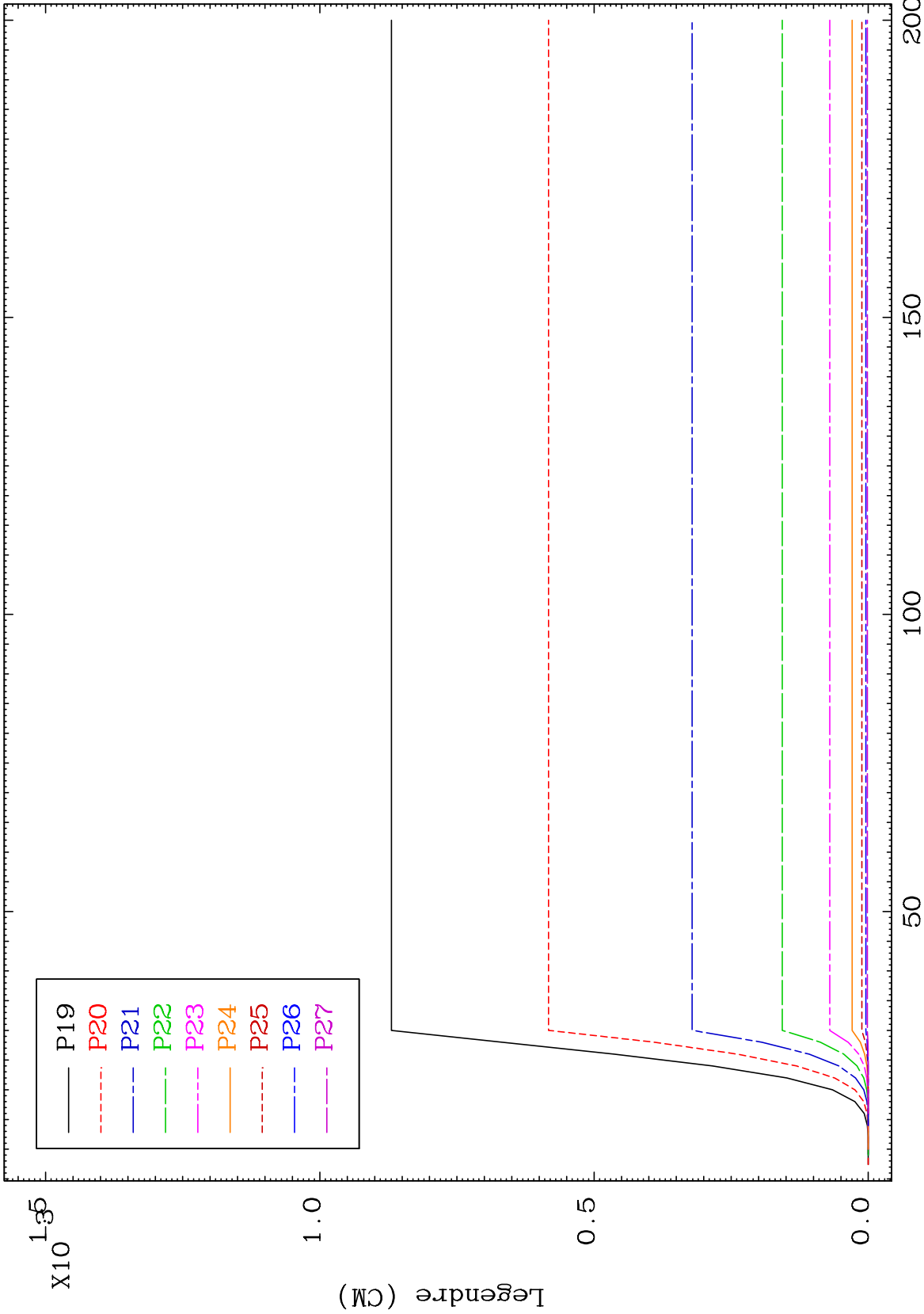
41-Nb-103



81

Incident Energy (MeV)

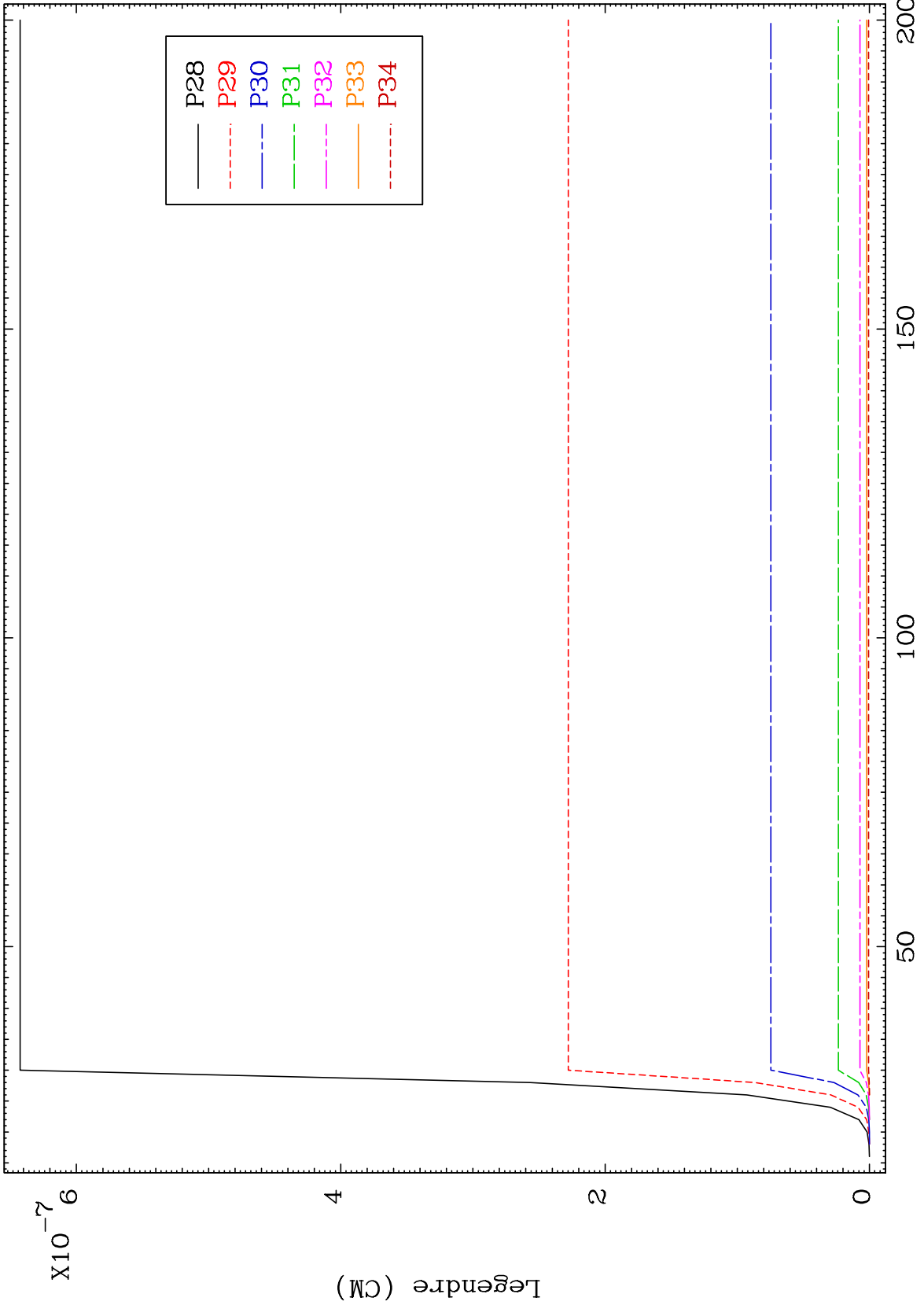
41-Nb-103



MAT 4155

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

41-Nb-103



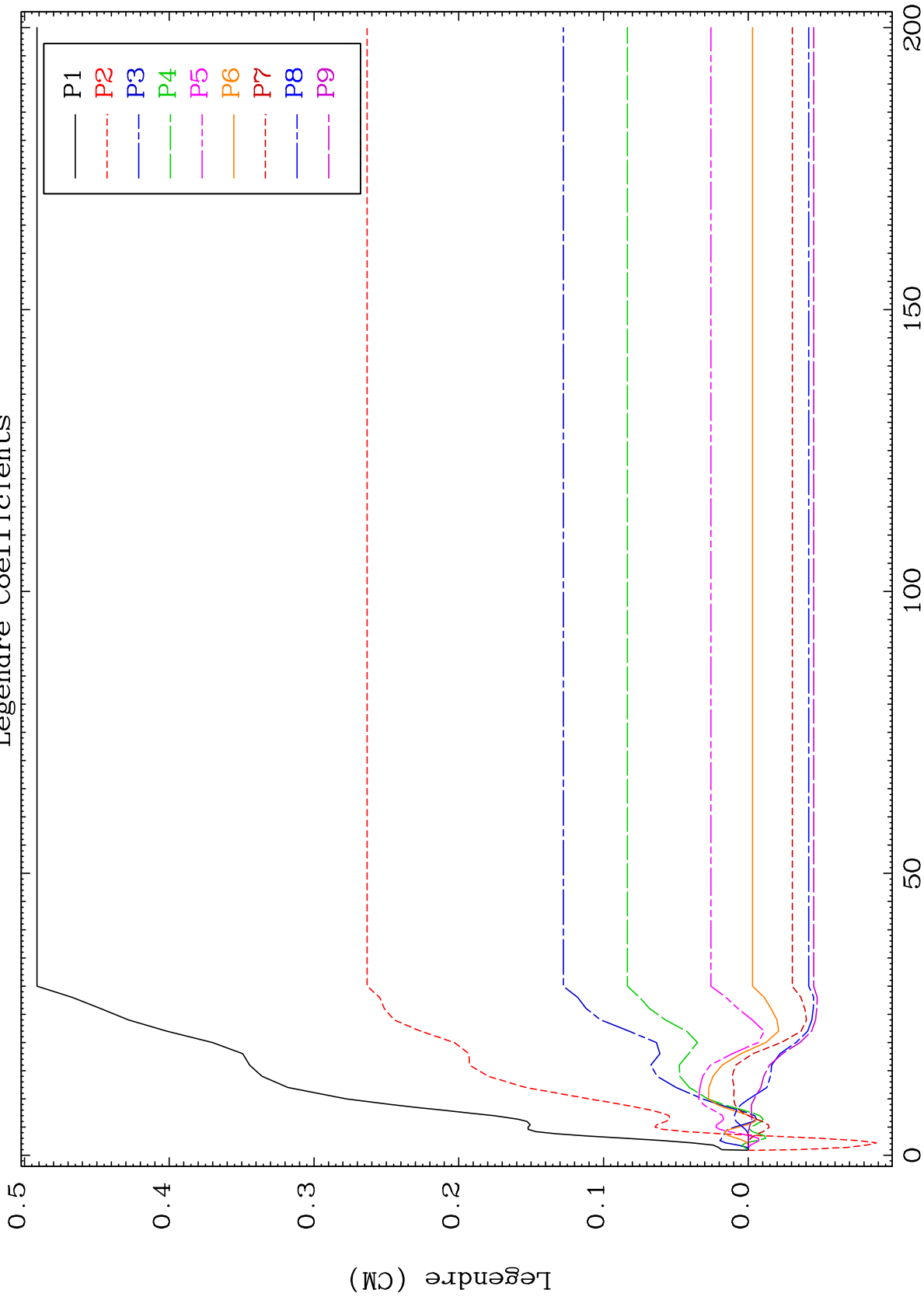
83

41-Nb-103

MAT 4155

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

41-Nb-103



84

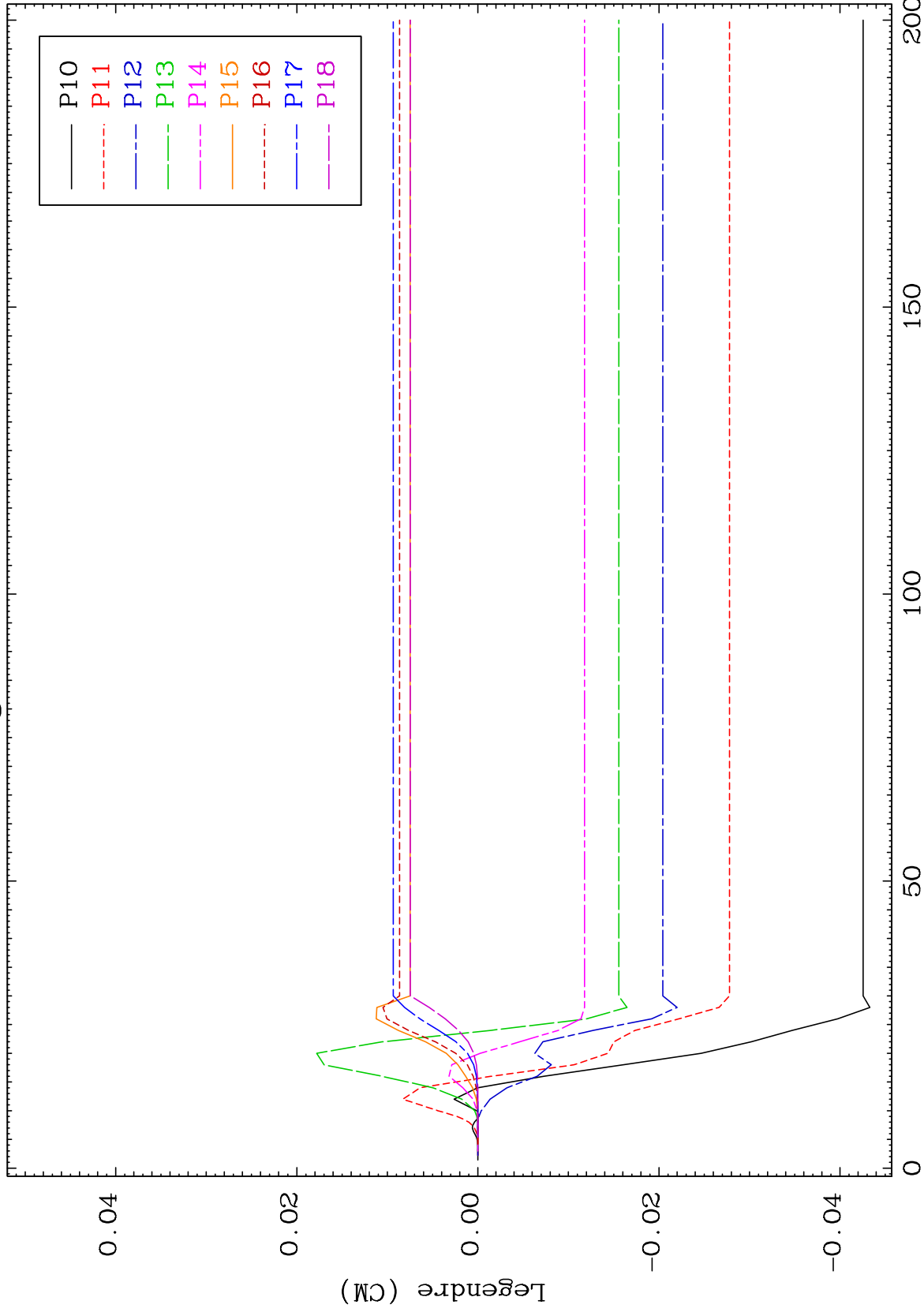
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



85

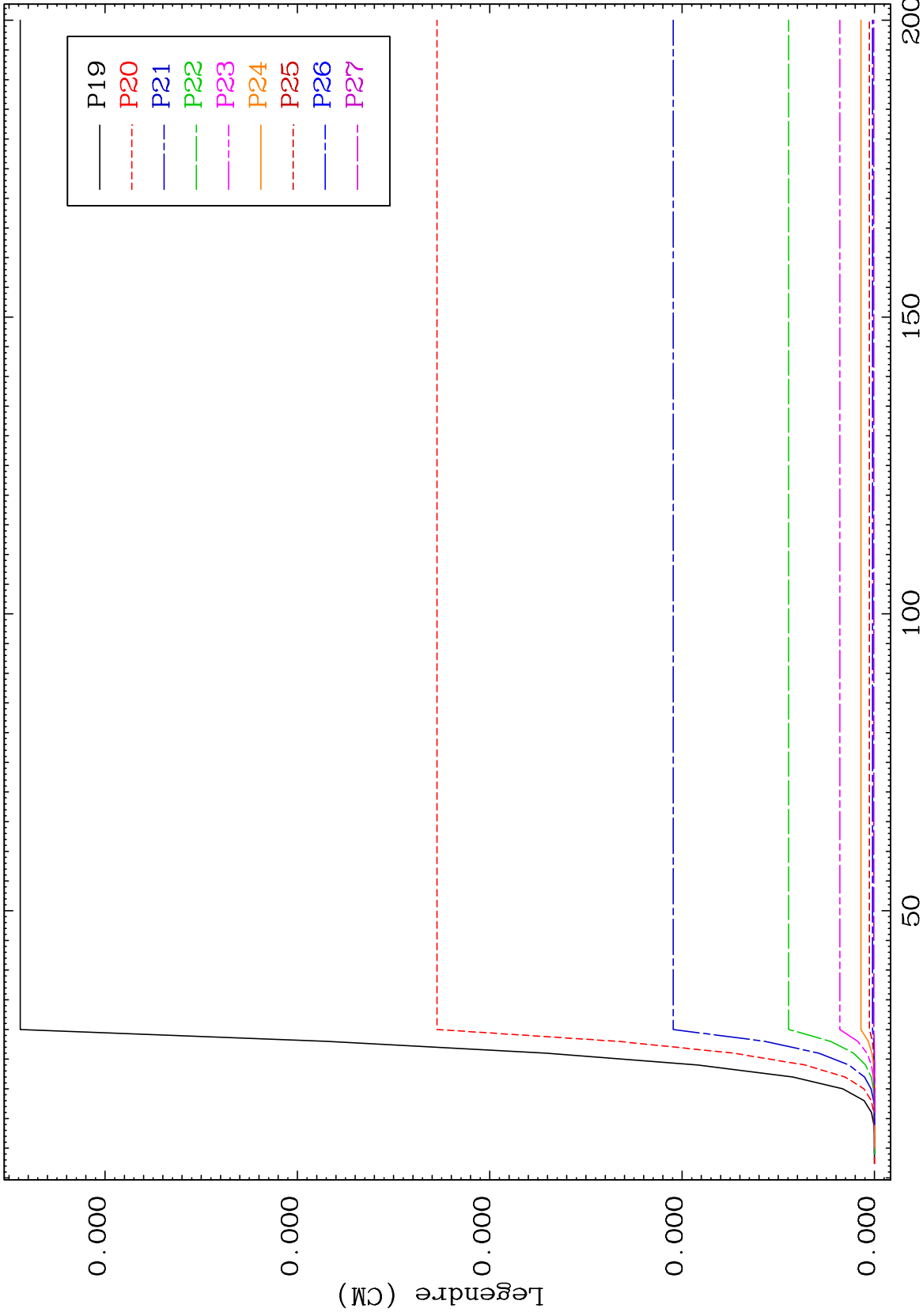
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



86

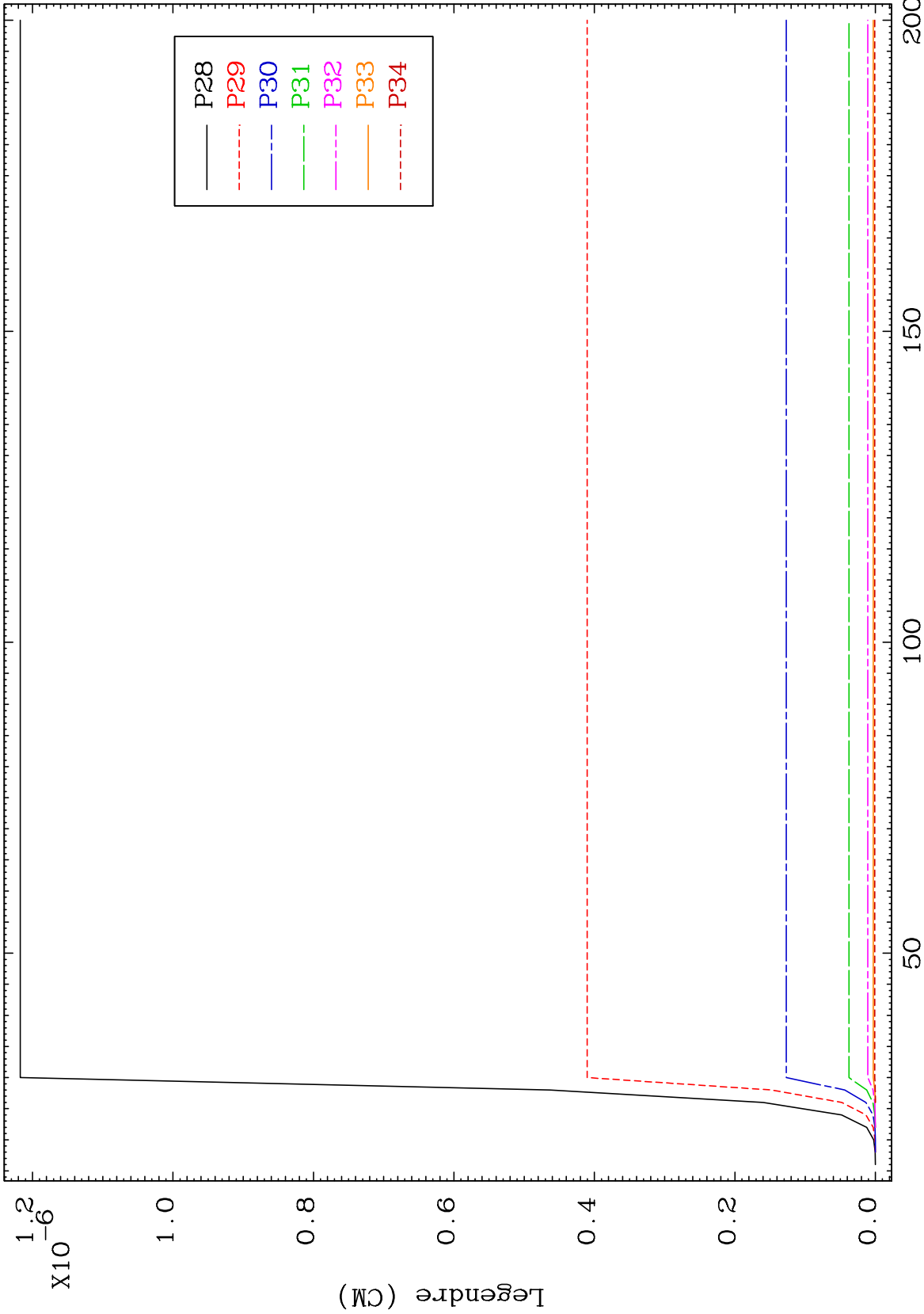
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



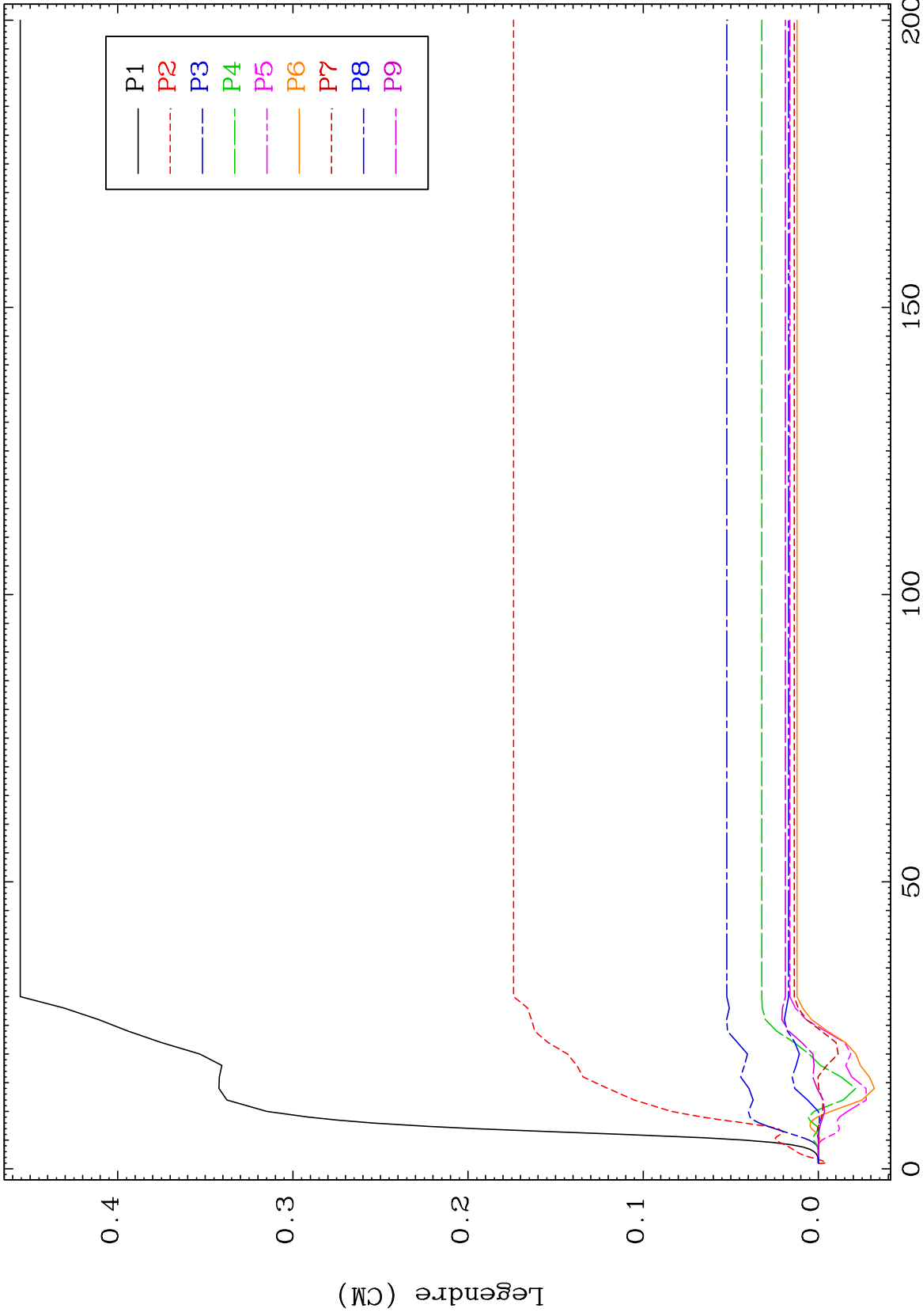
87

41-Nb-103

MAT 4155

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

41-Nb-103



88

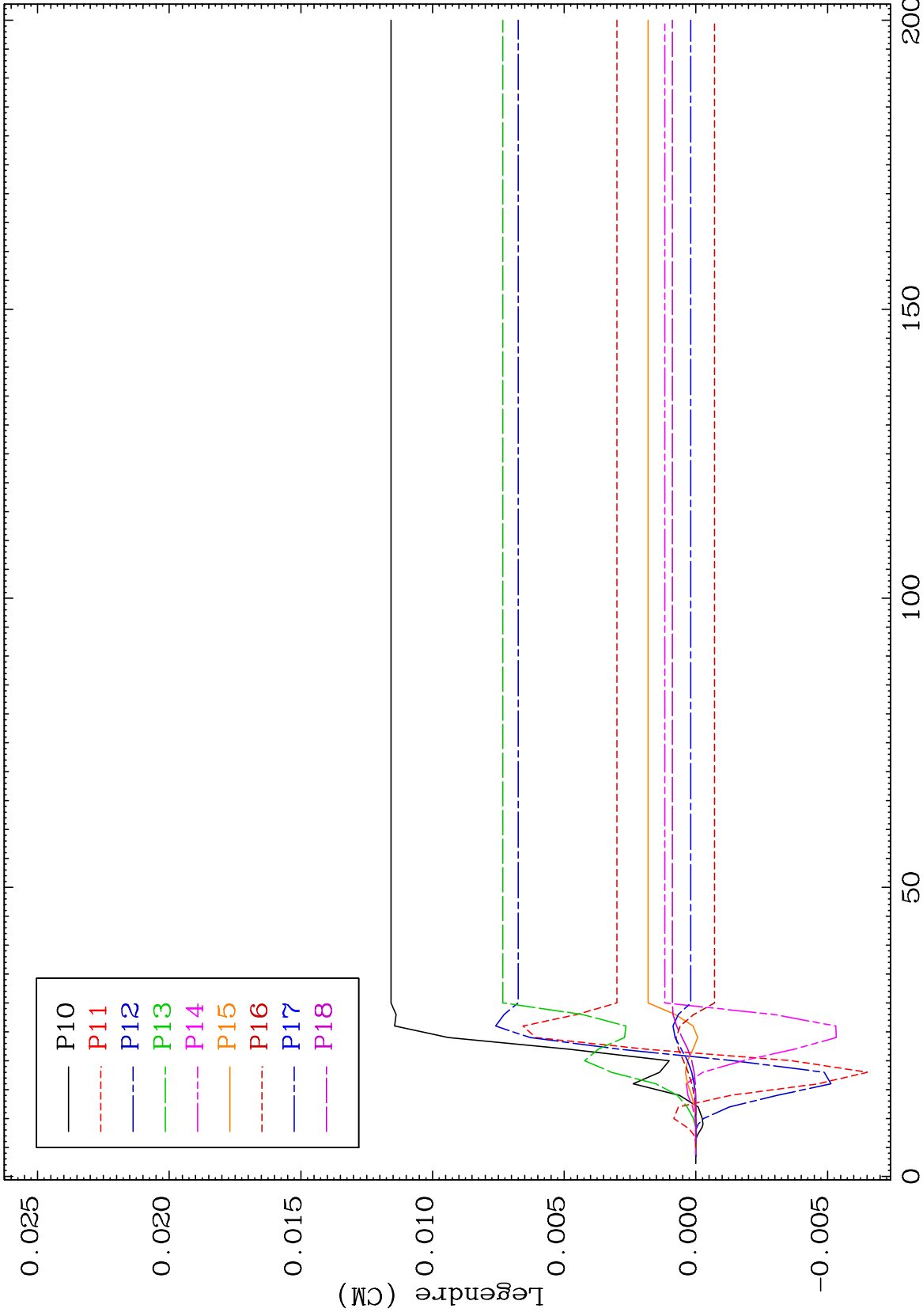
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



89

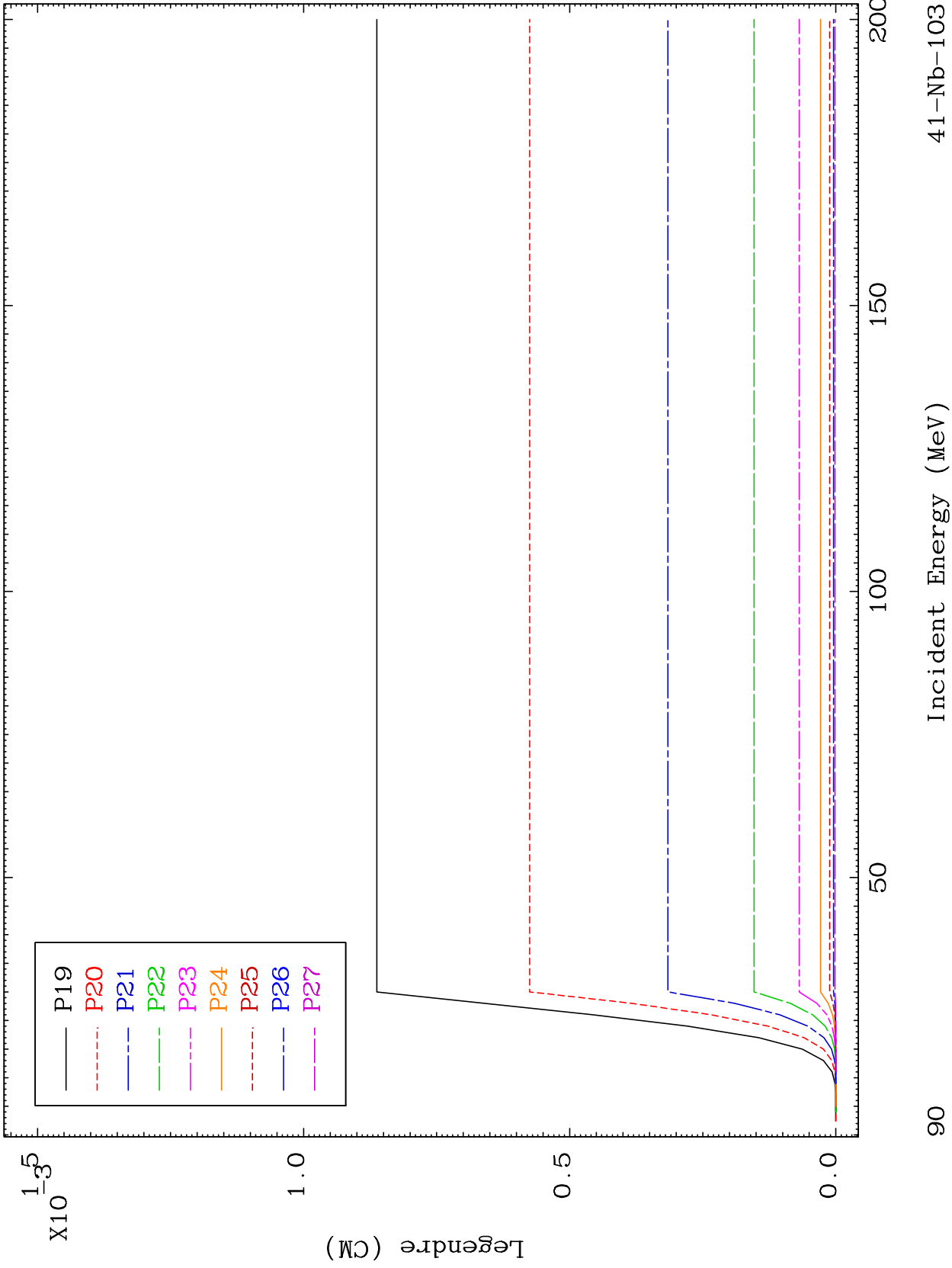
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

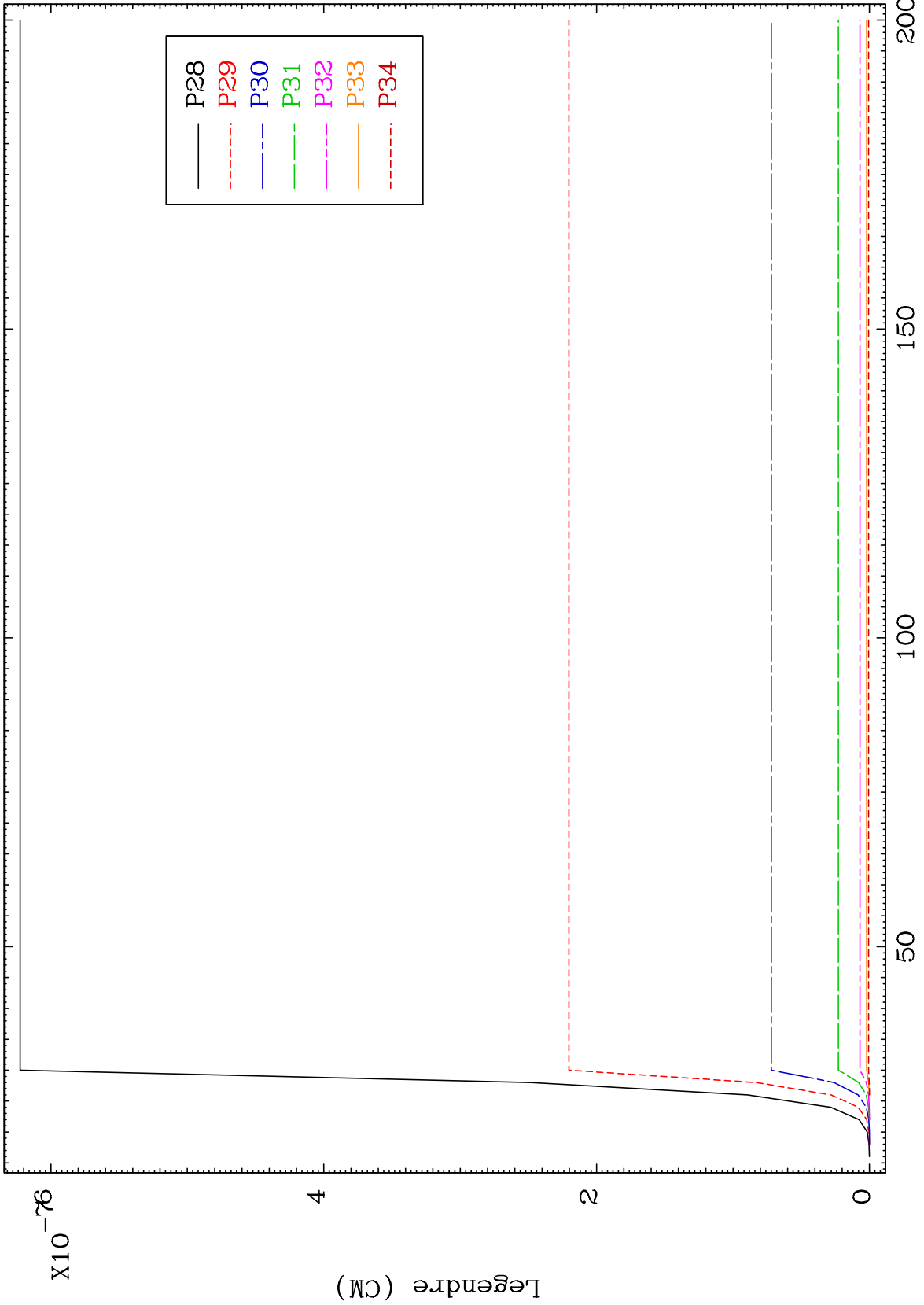
41-Nb-103



MAT 4155

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

41-Nb-103



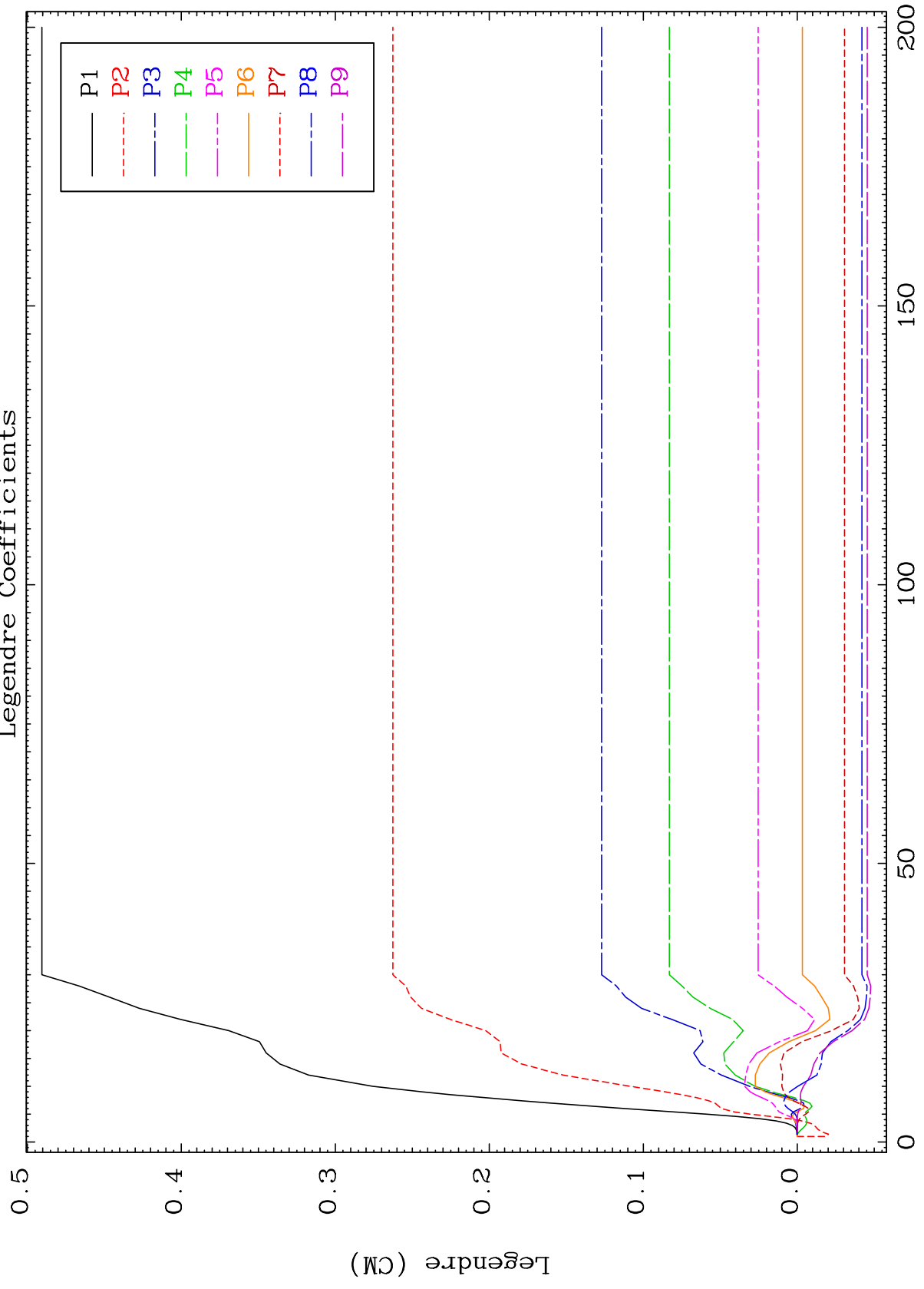
91

41-Nb-103

MAT 4155

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

41-Nb-103



92

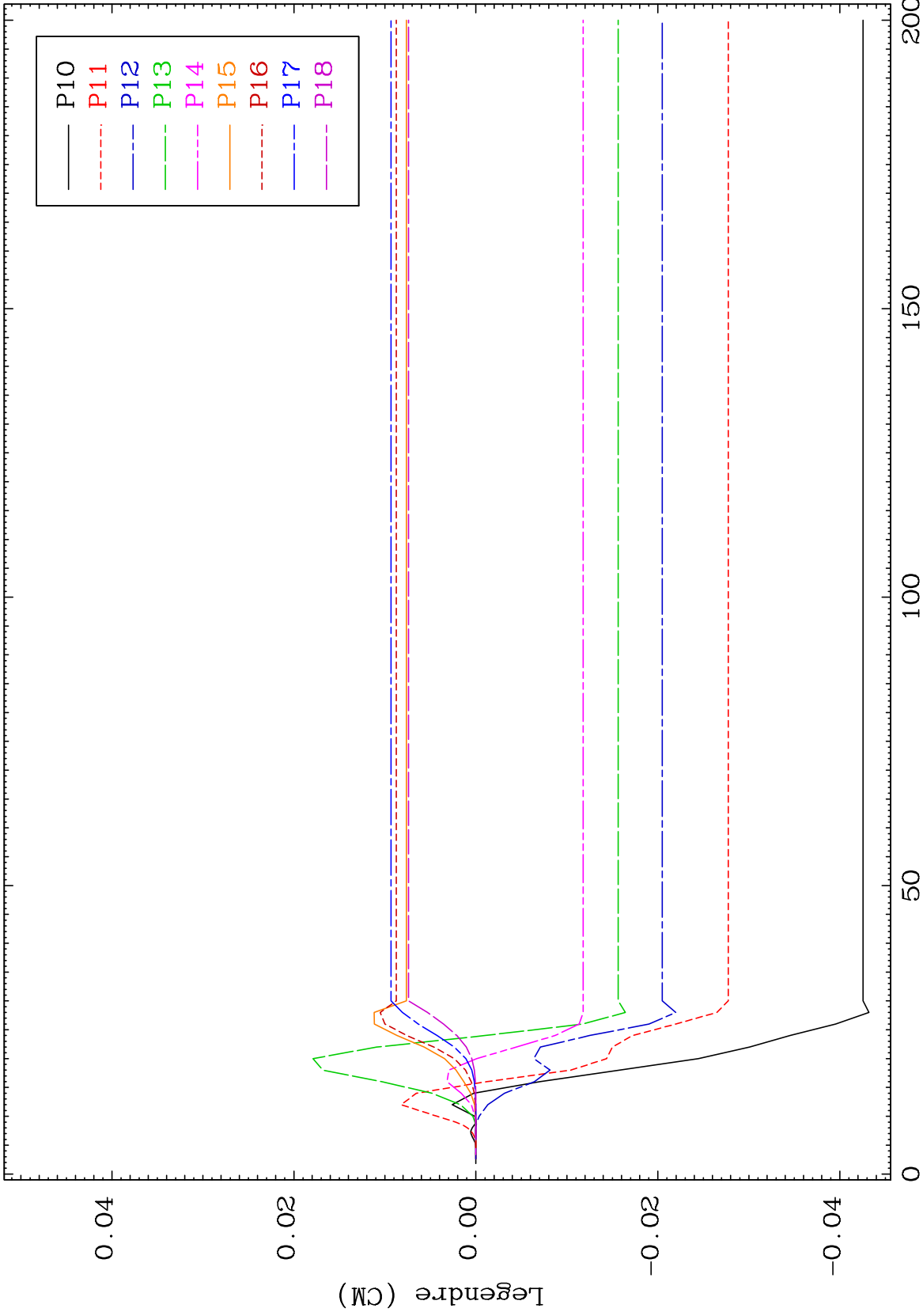
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



93

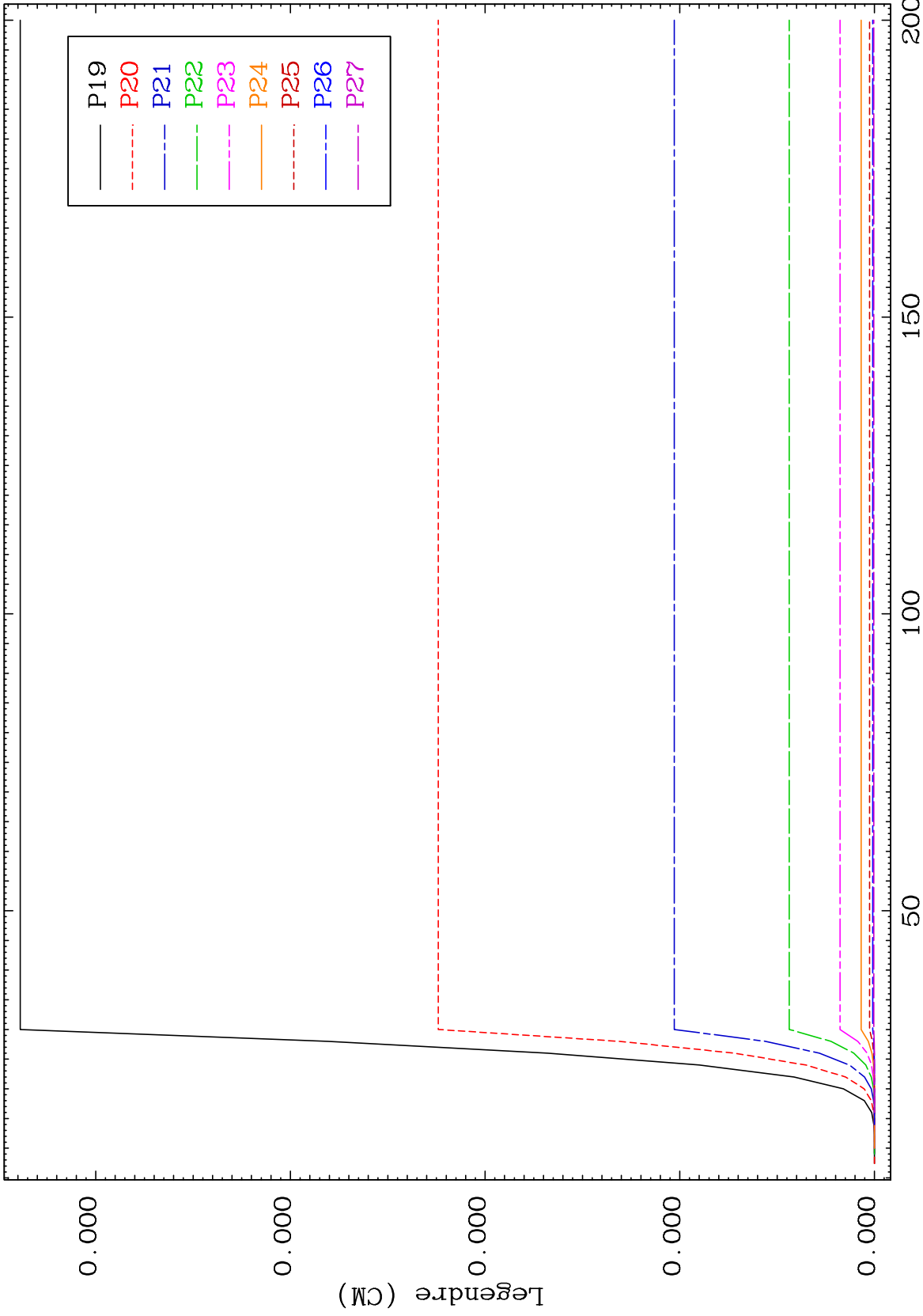
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



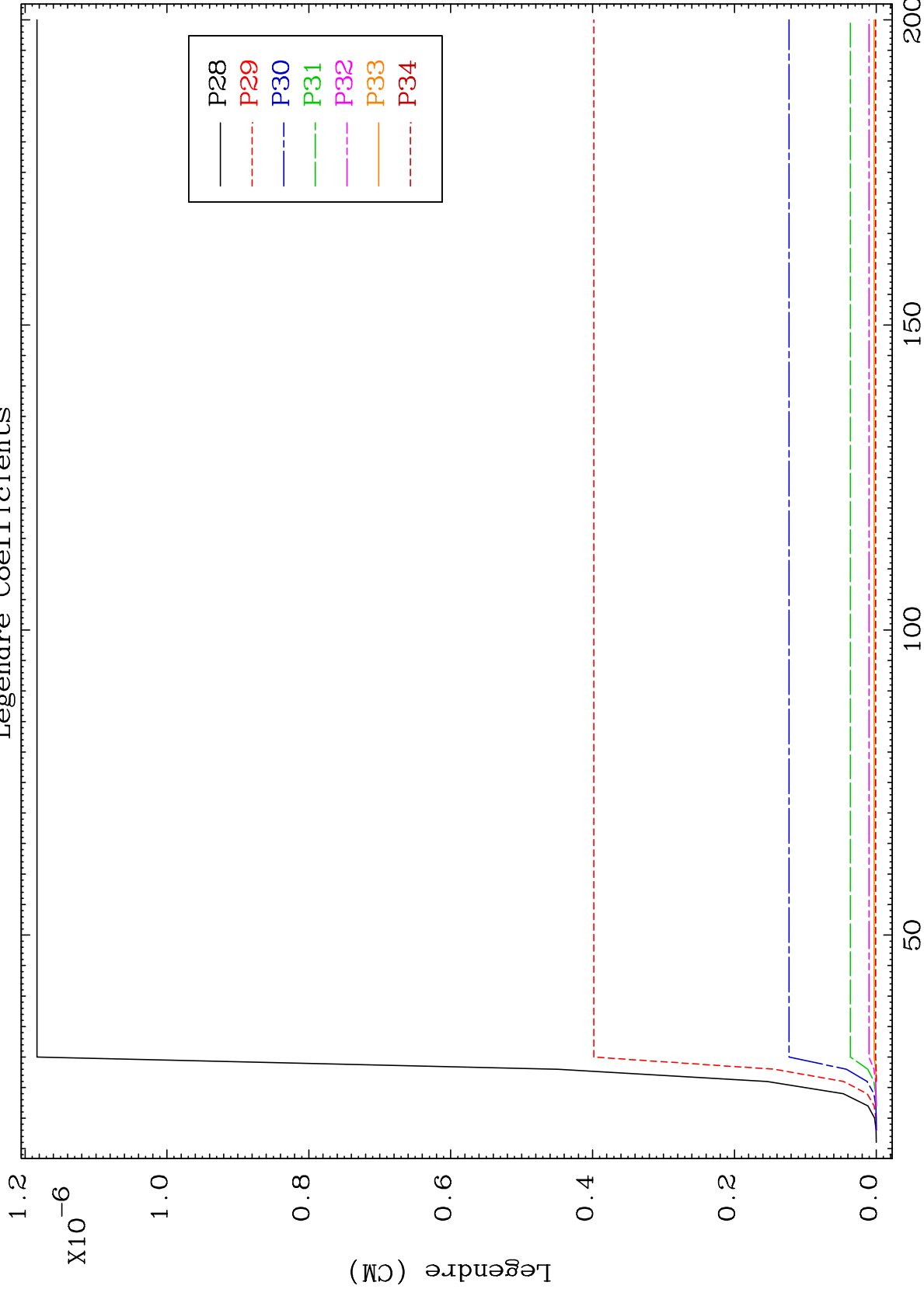
94

41-Nb-103

MAT 4155

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

41-Nb-103



95

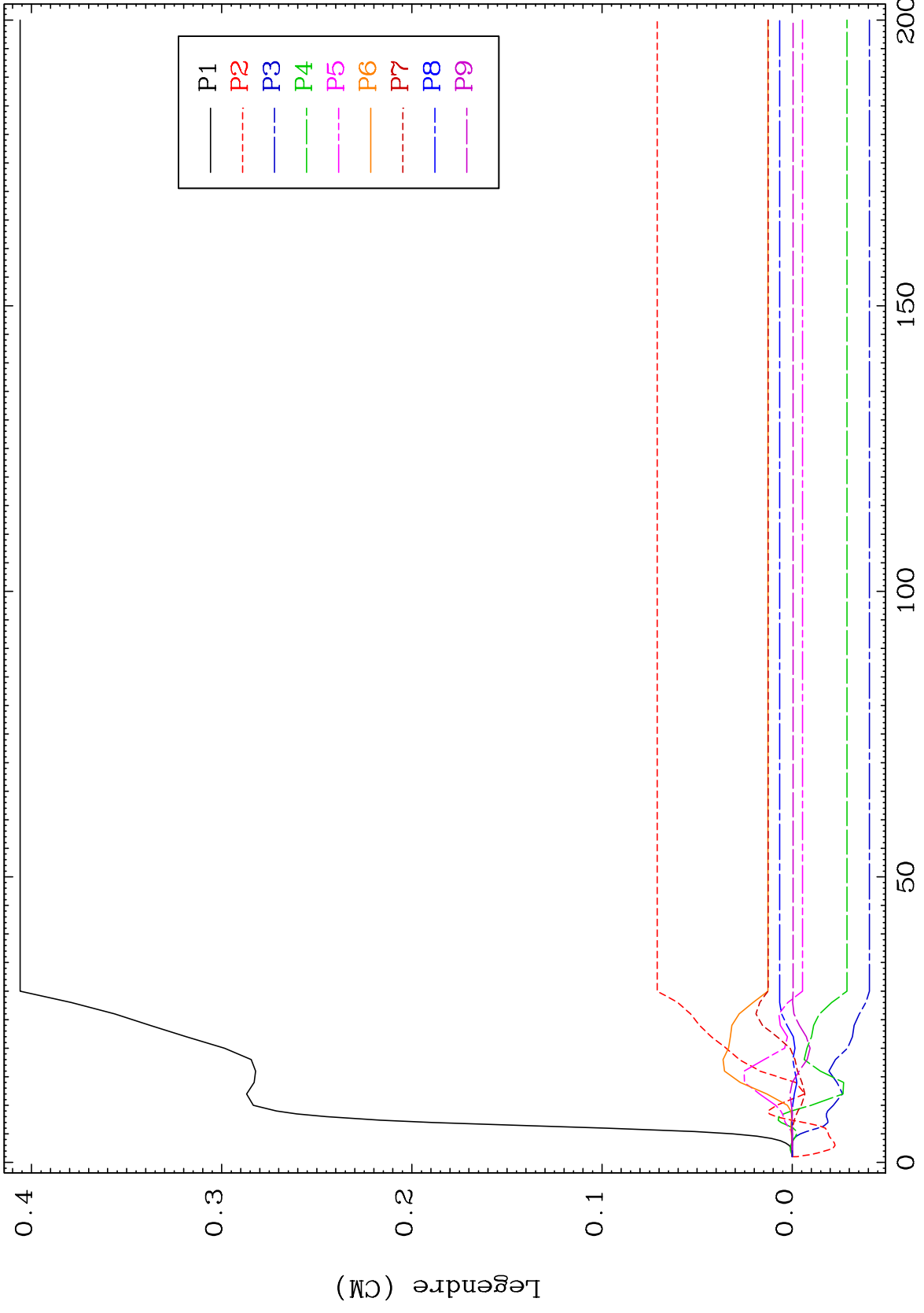
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



96

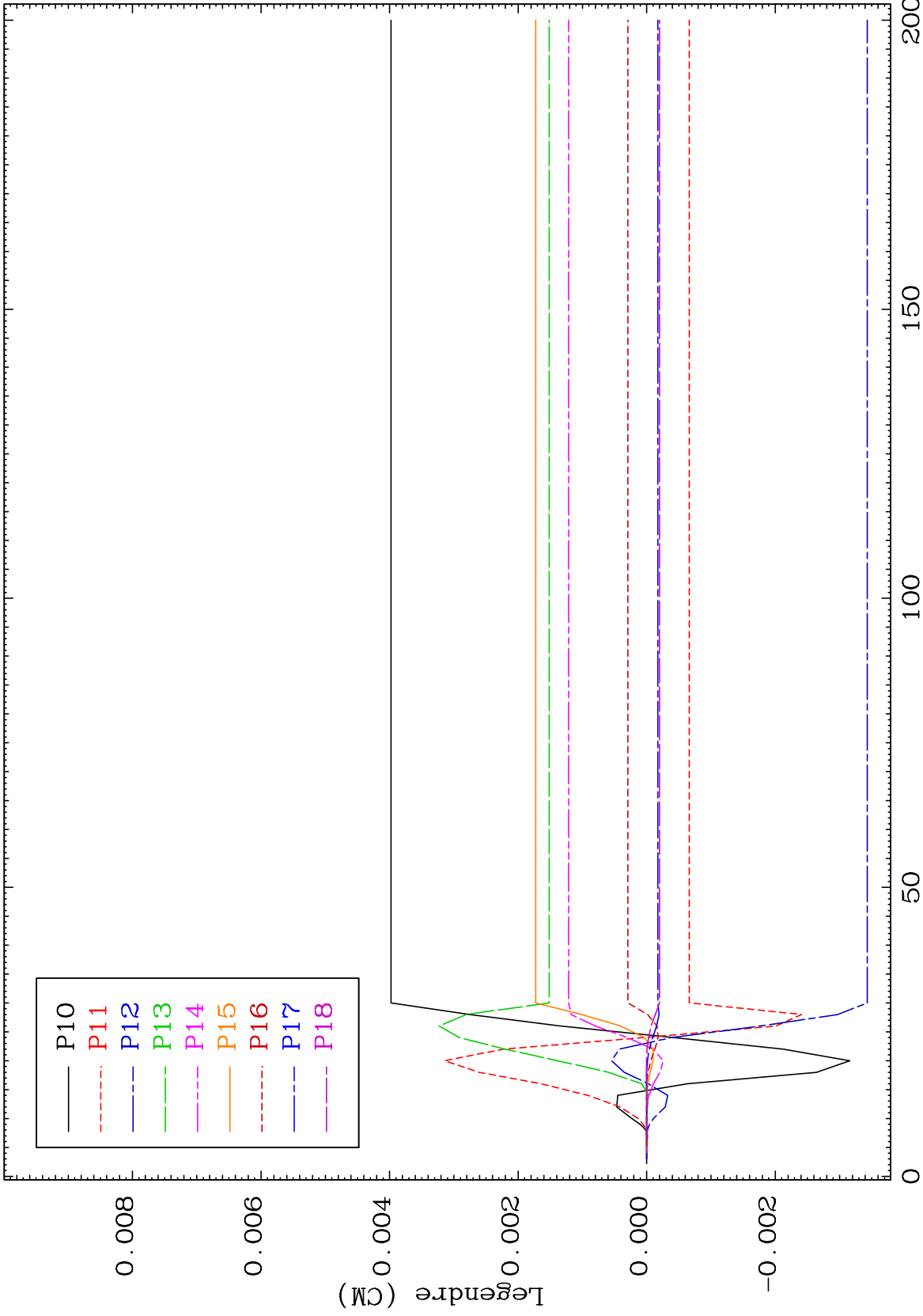
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



97

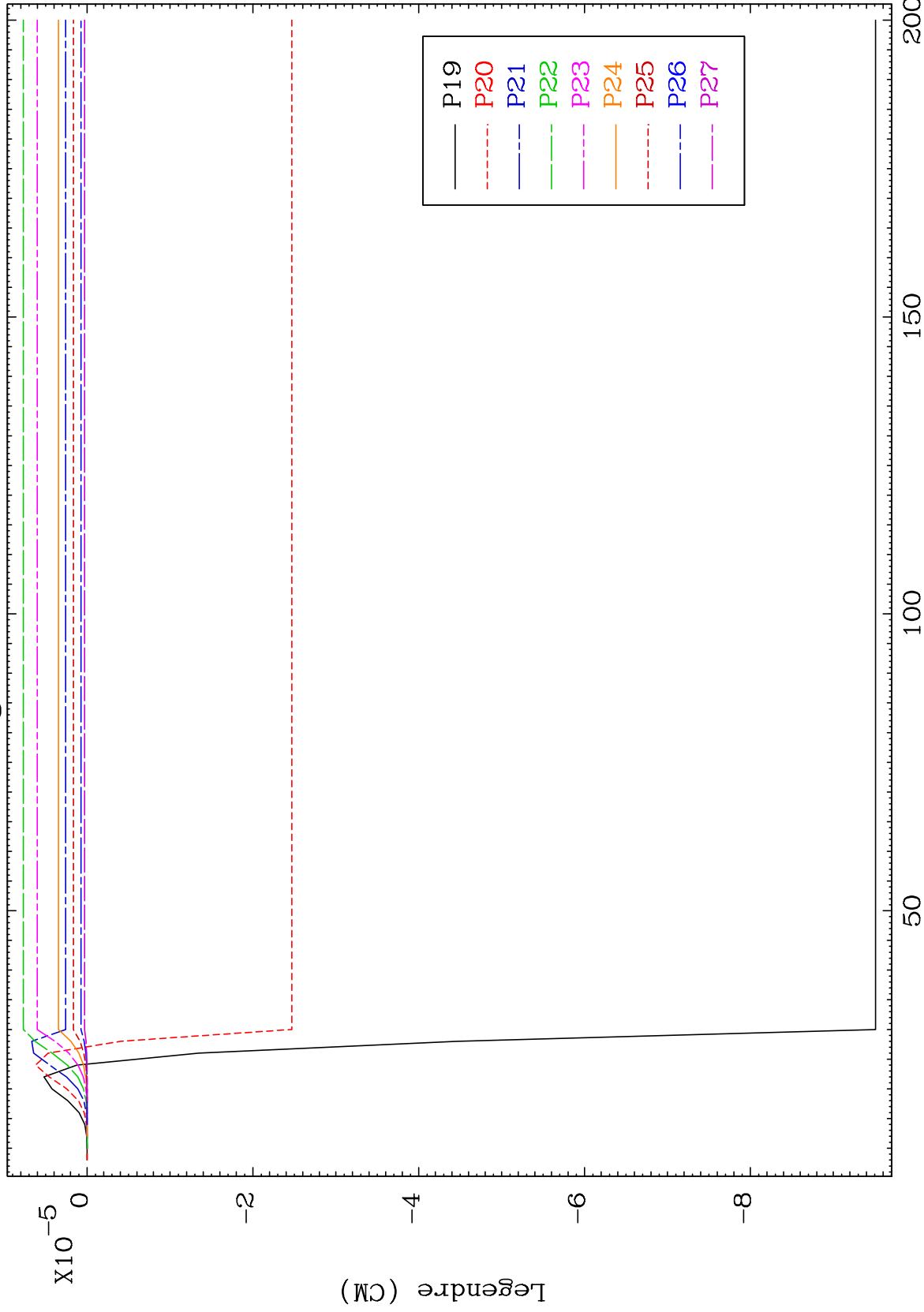
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



98

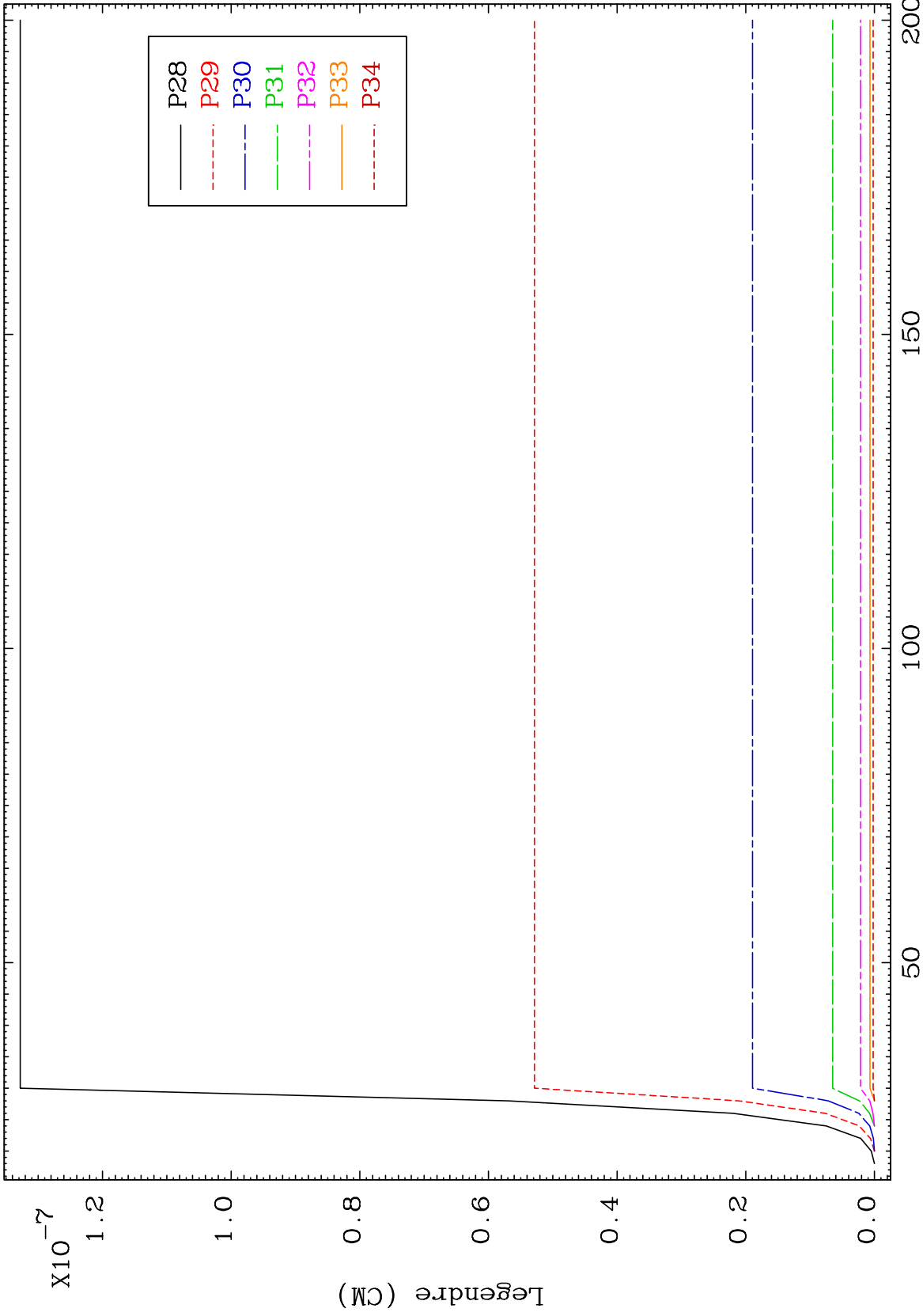
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



99

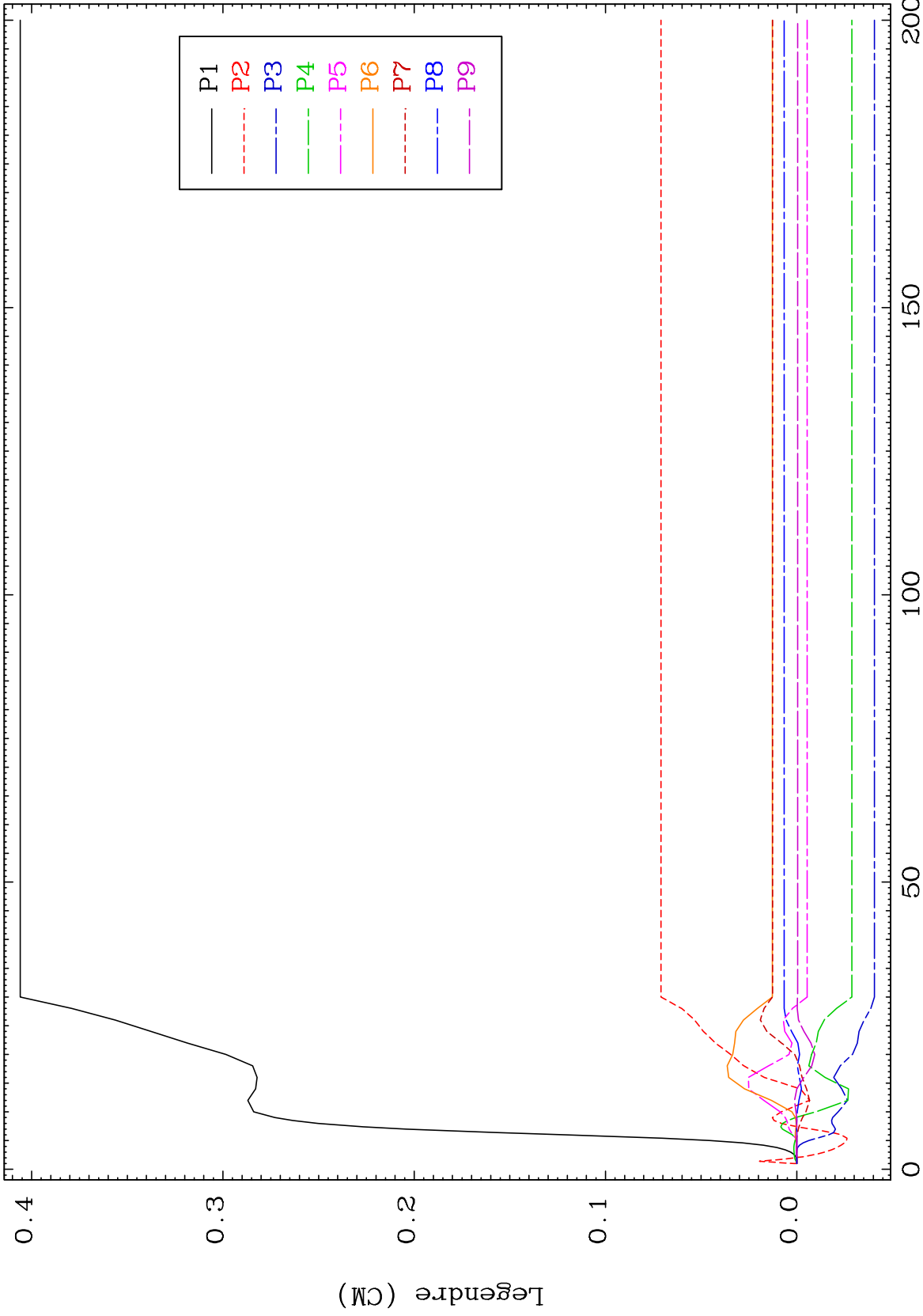
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



41-Nb-103

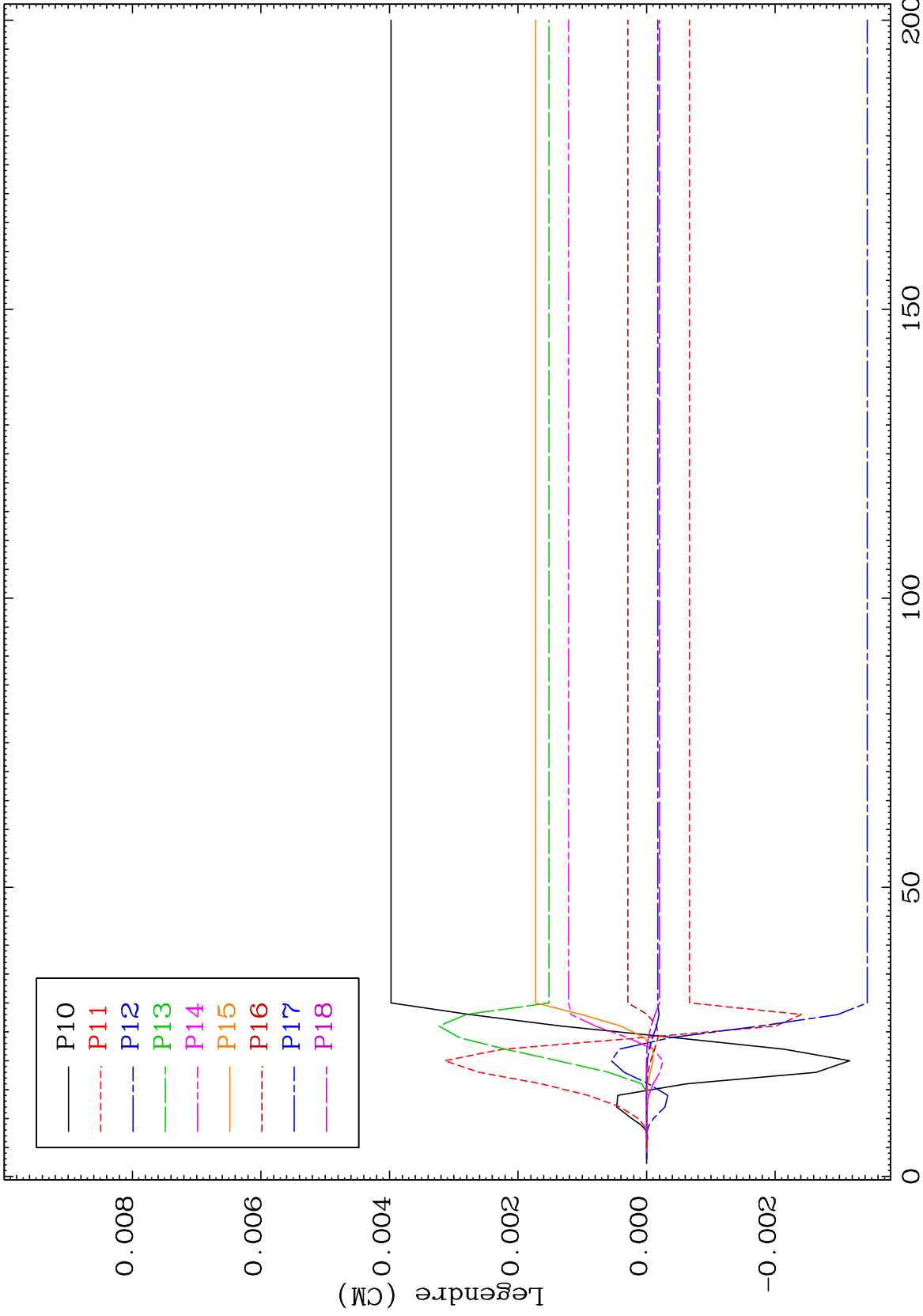
Incident Energy (MeV)

100

MAT 4155

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

41-Nb-103



101

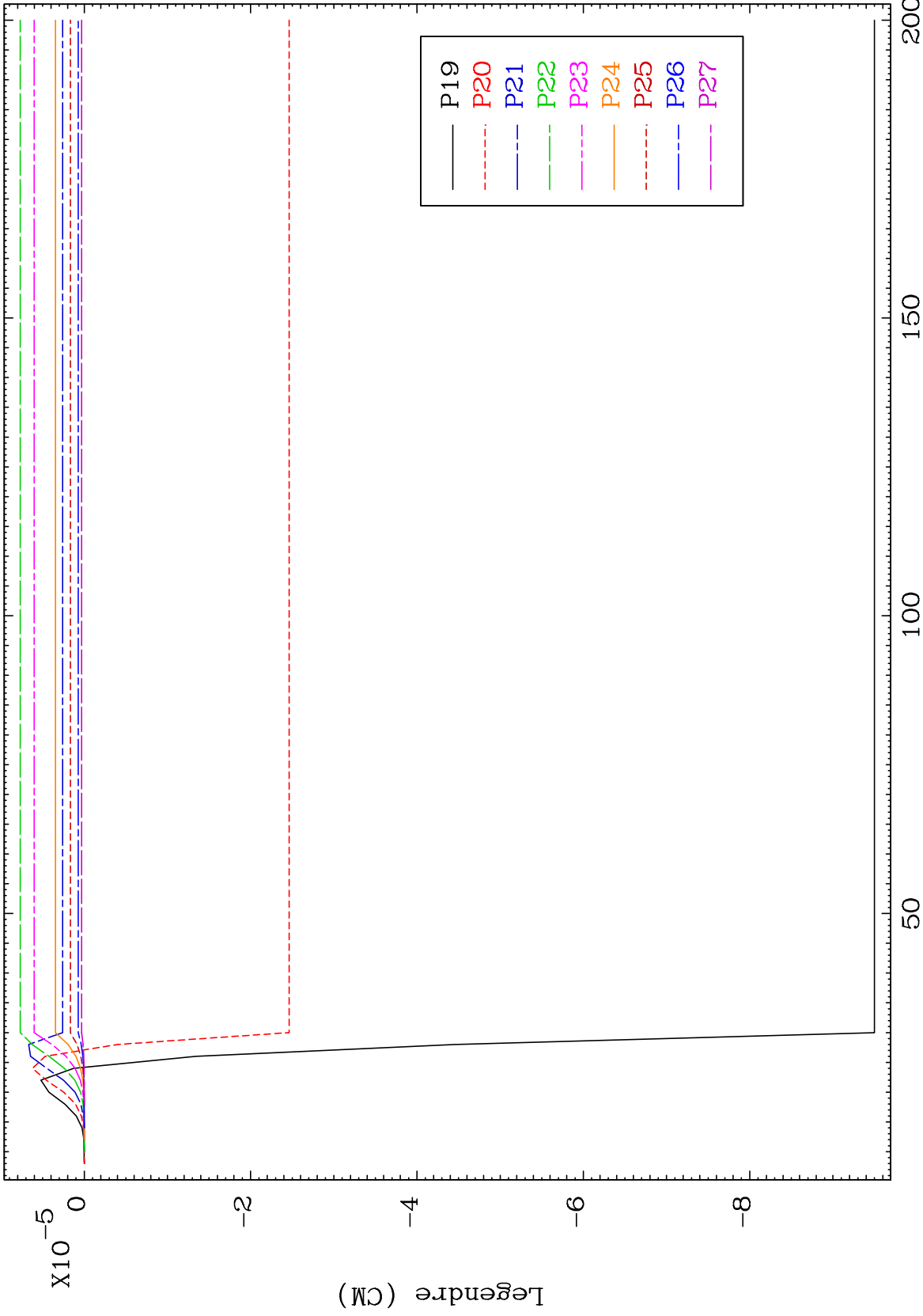
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



102

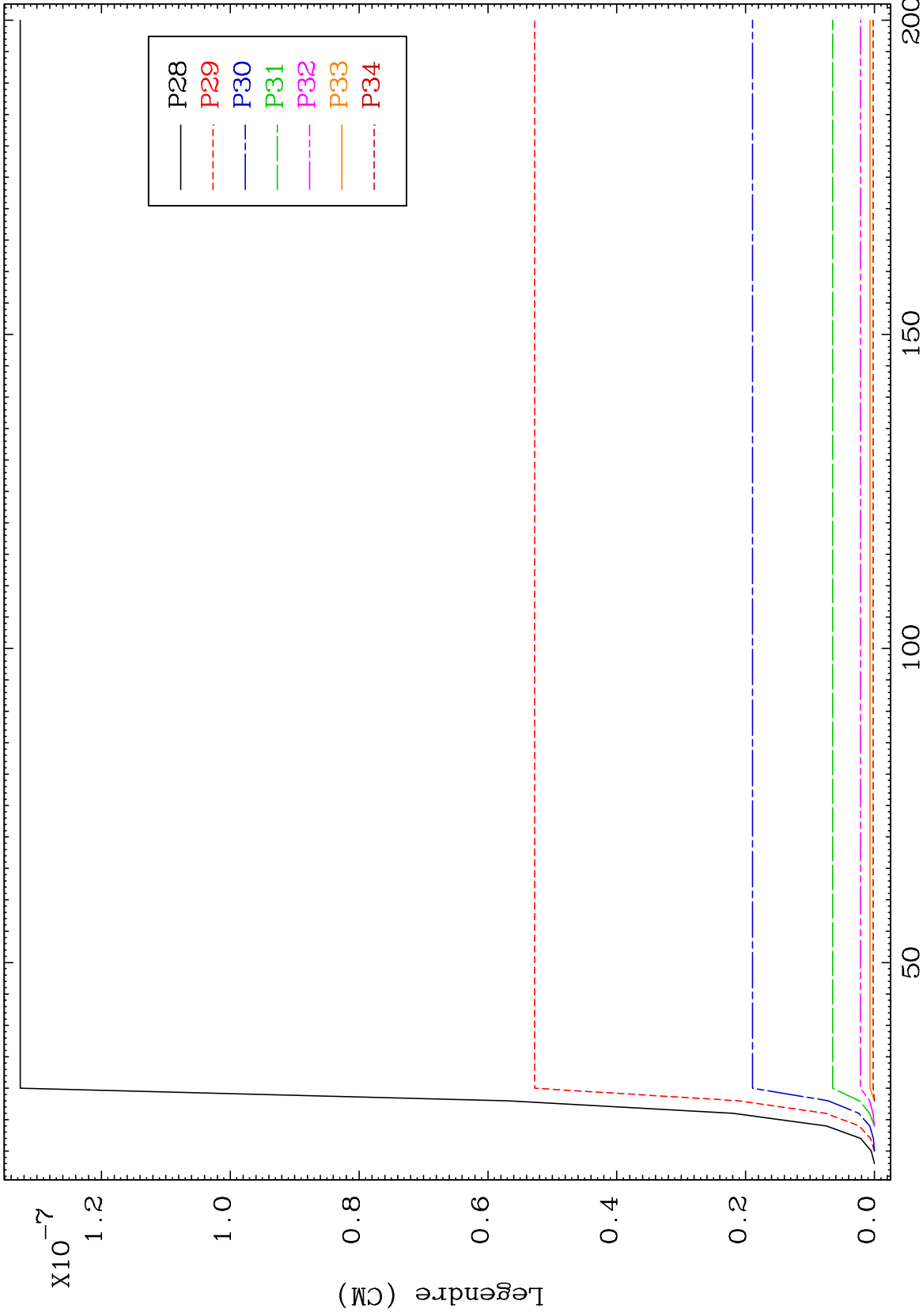
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



103

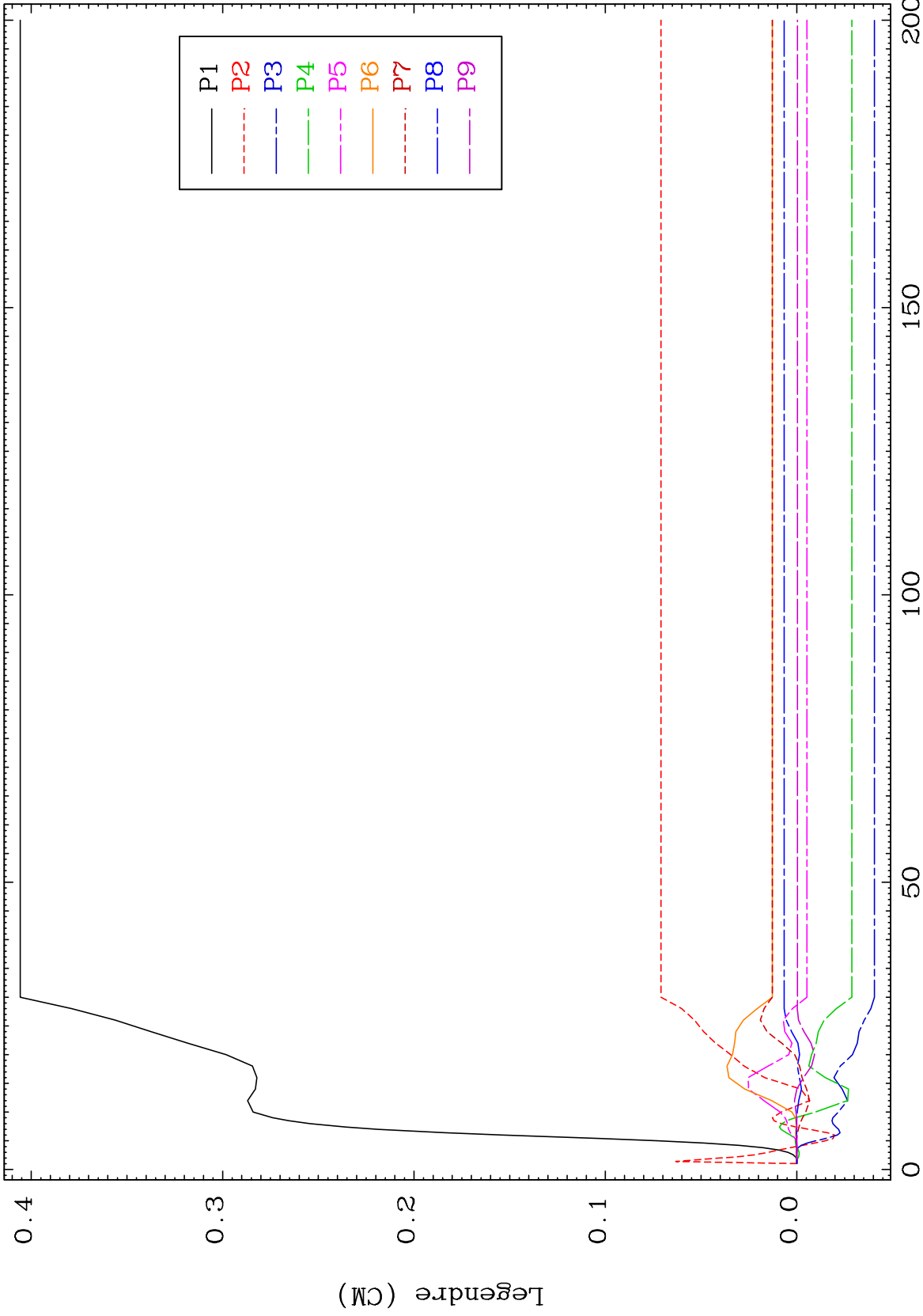
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



104

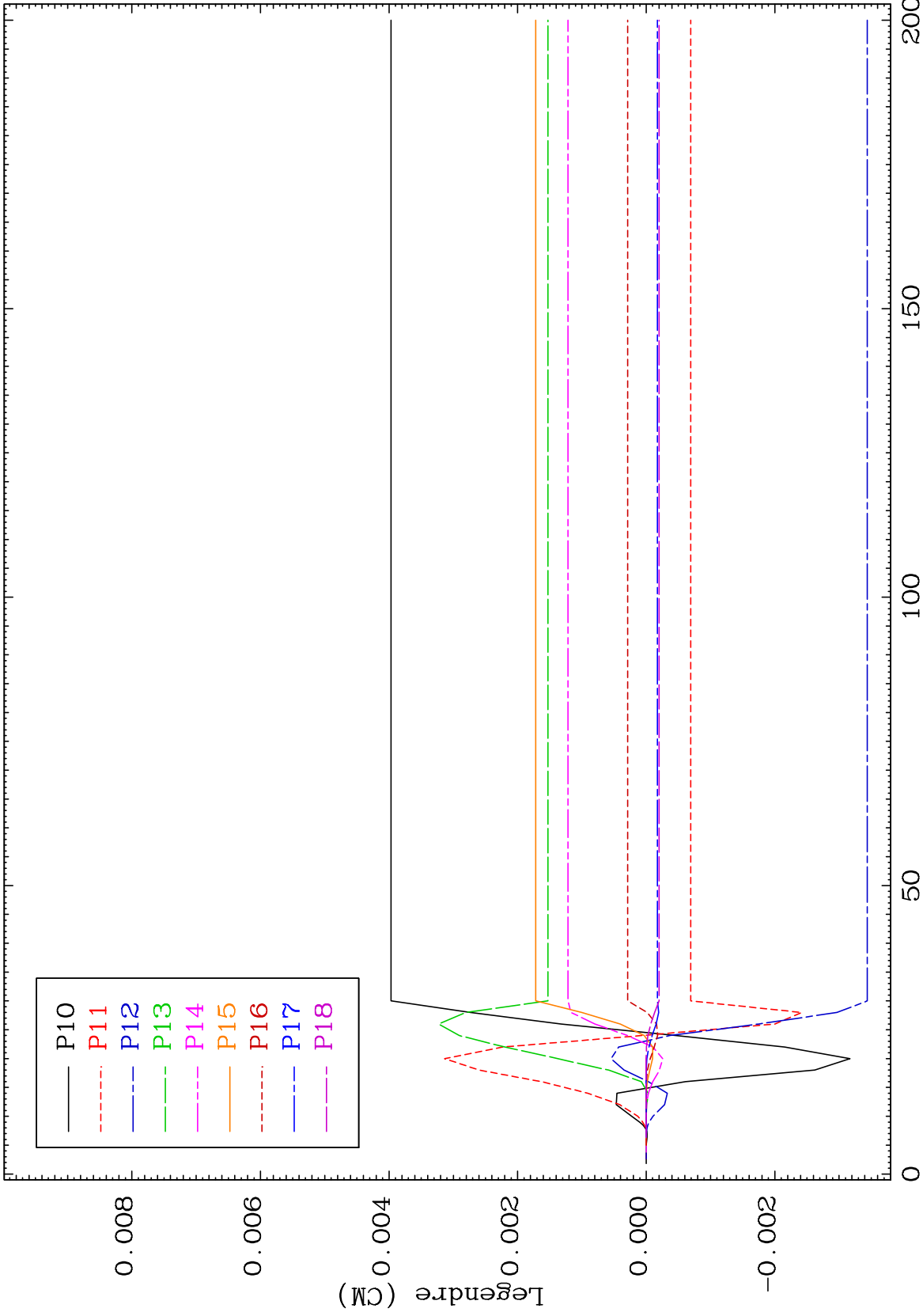
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



105

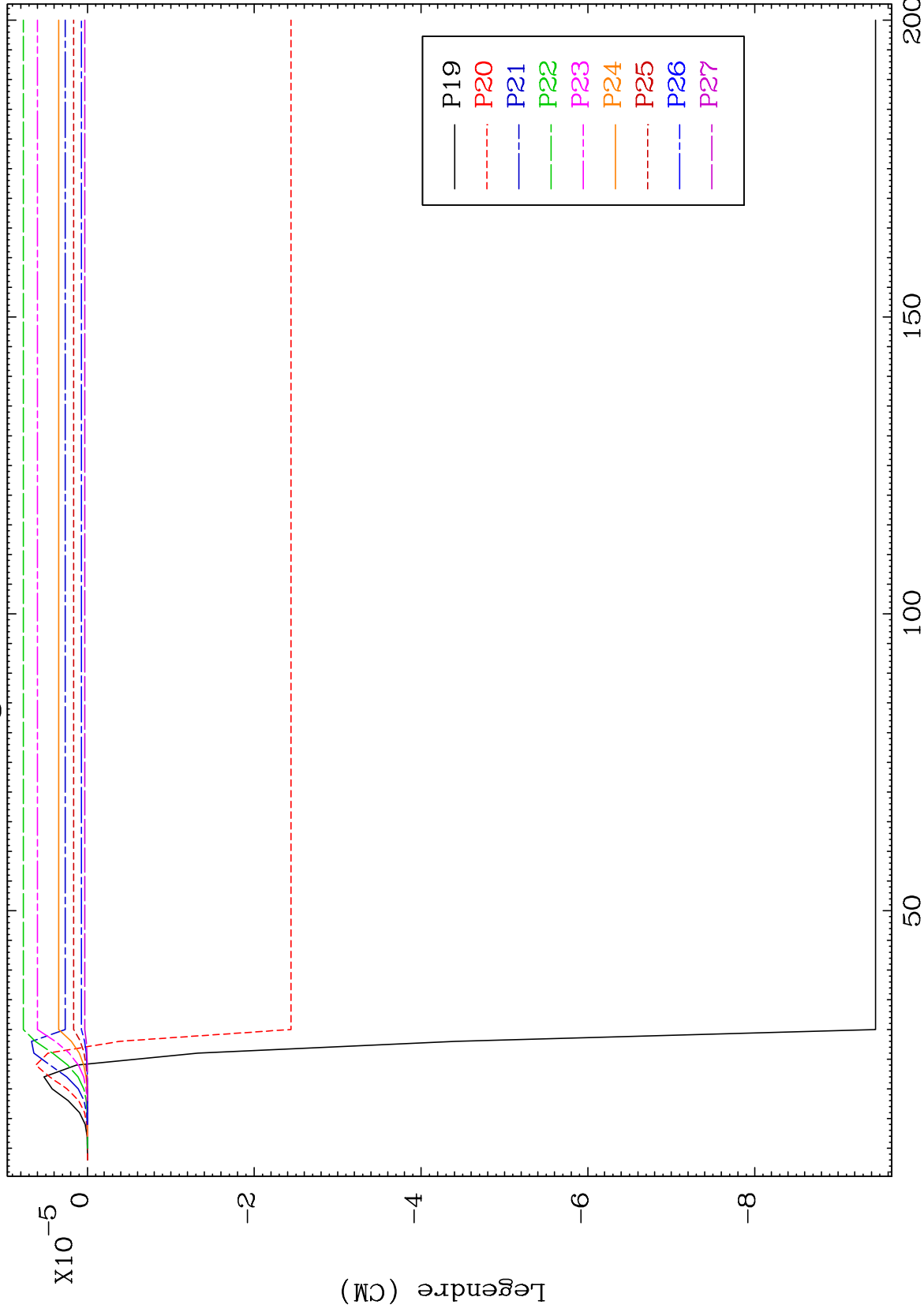
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



106

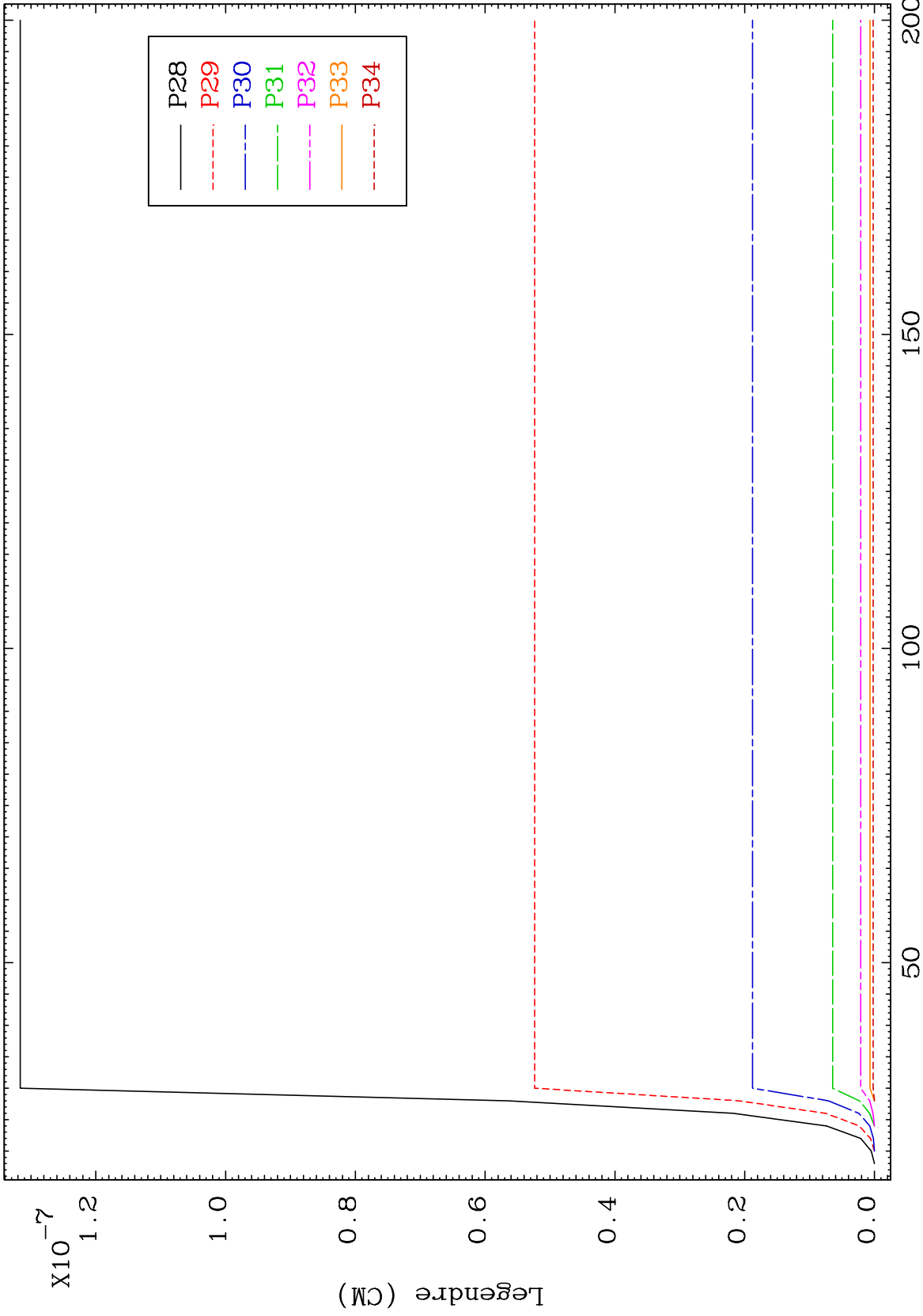
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



107

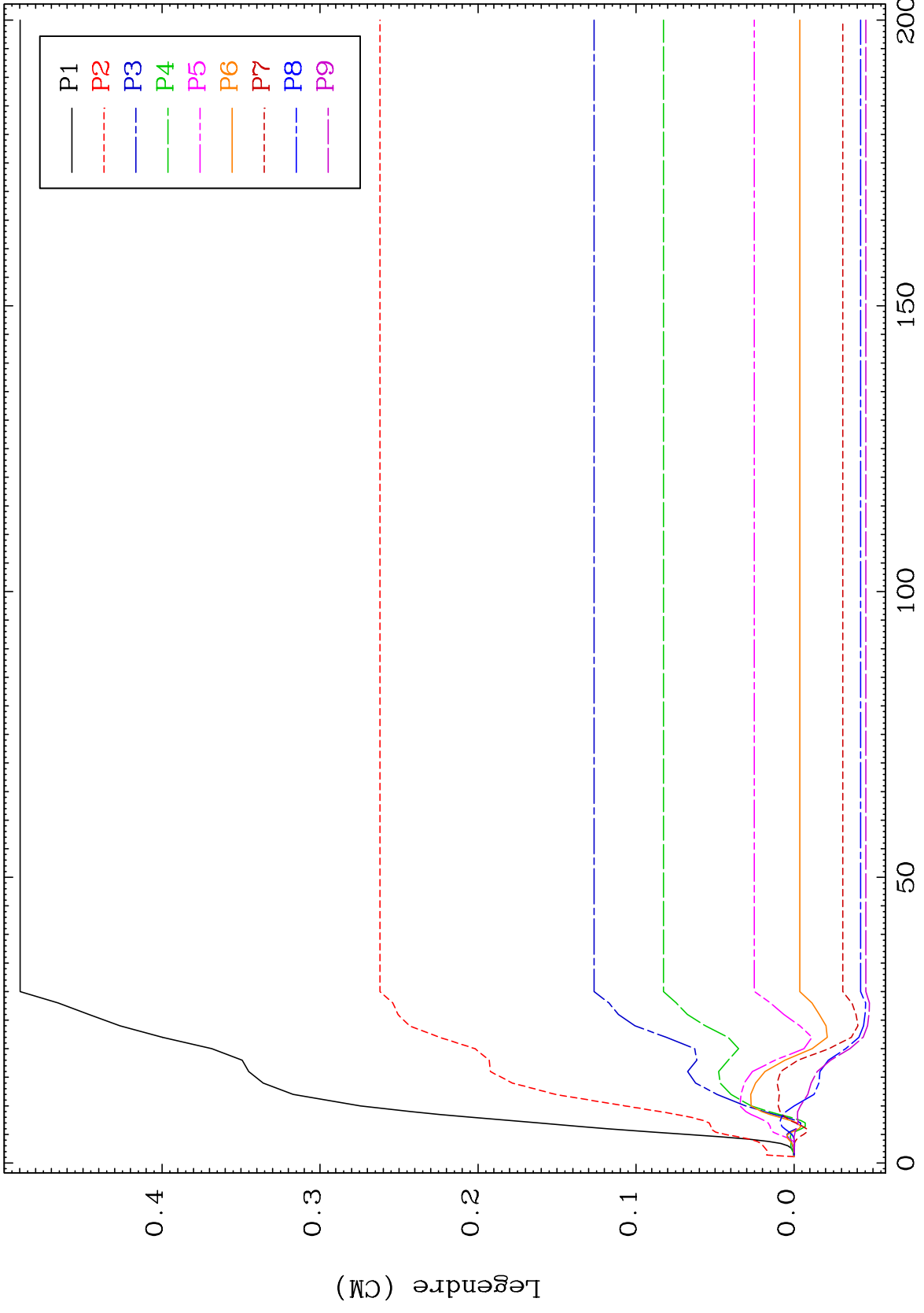
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



41-Nb-103

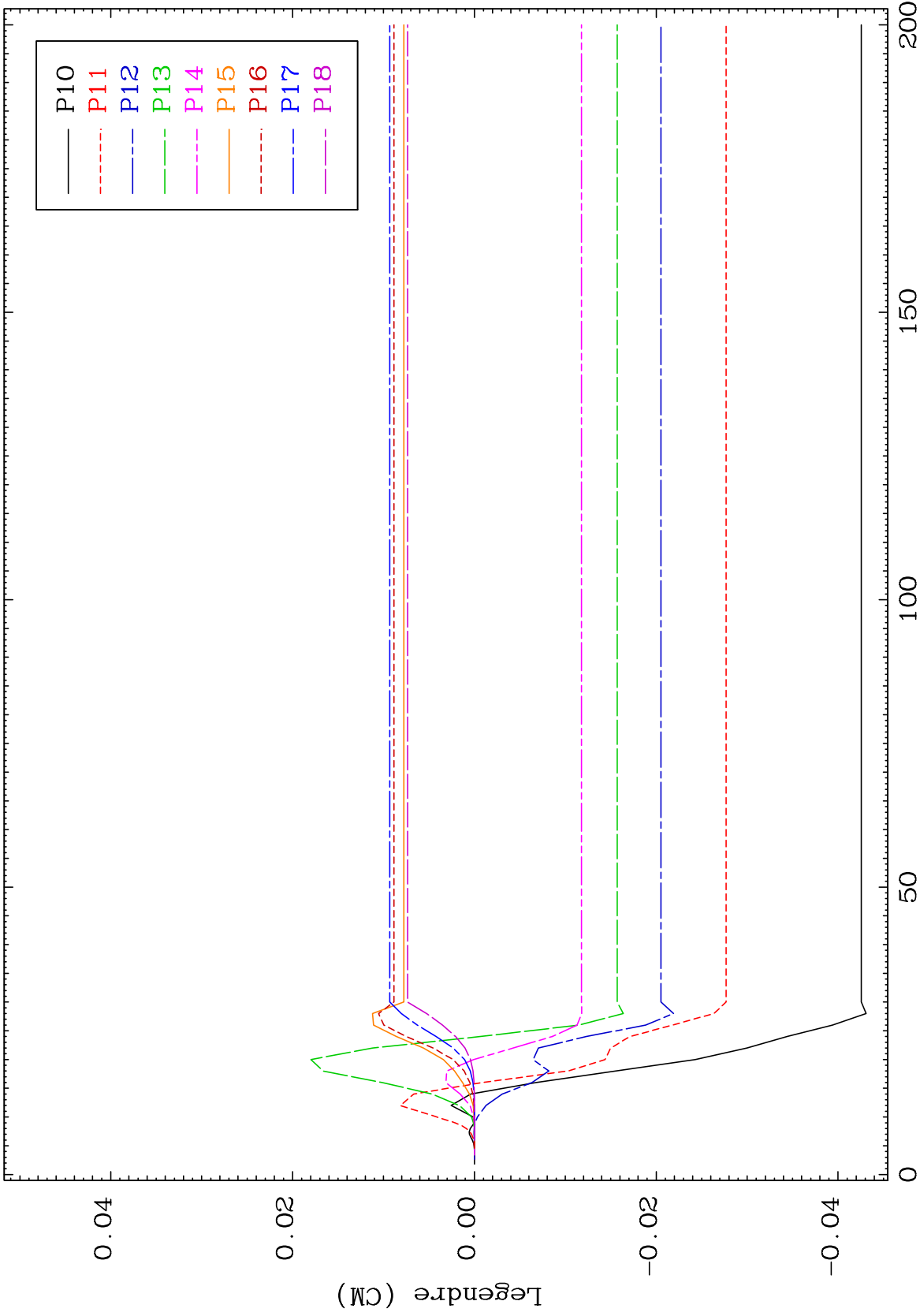
Incident Energy (MeV)

108

MAT 4155

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

41-Nb-103



109

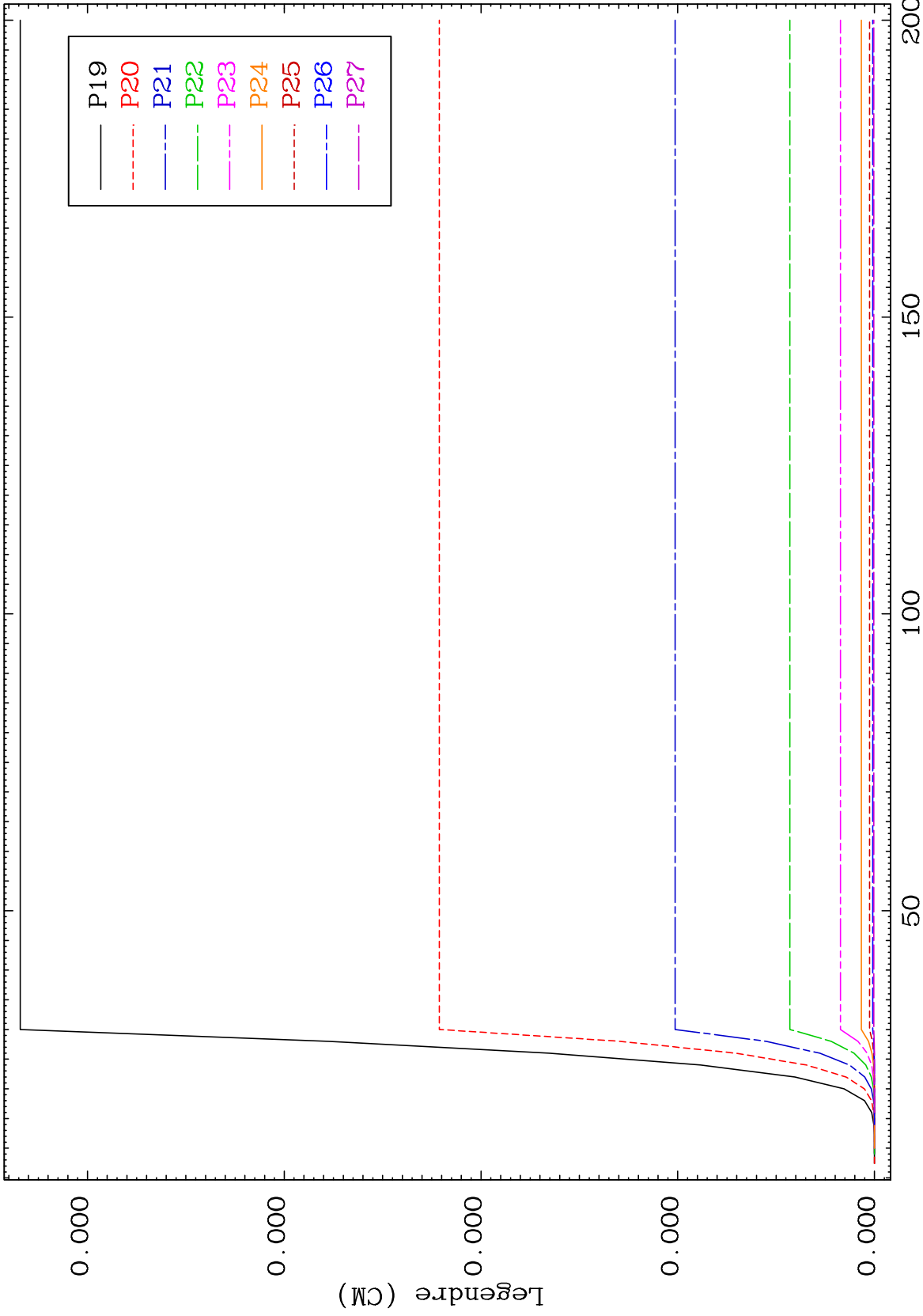
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



110

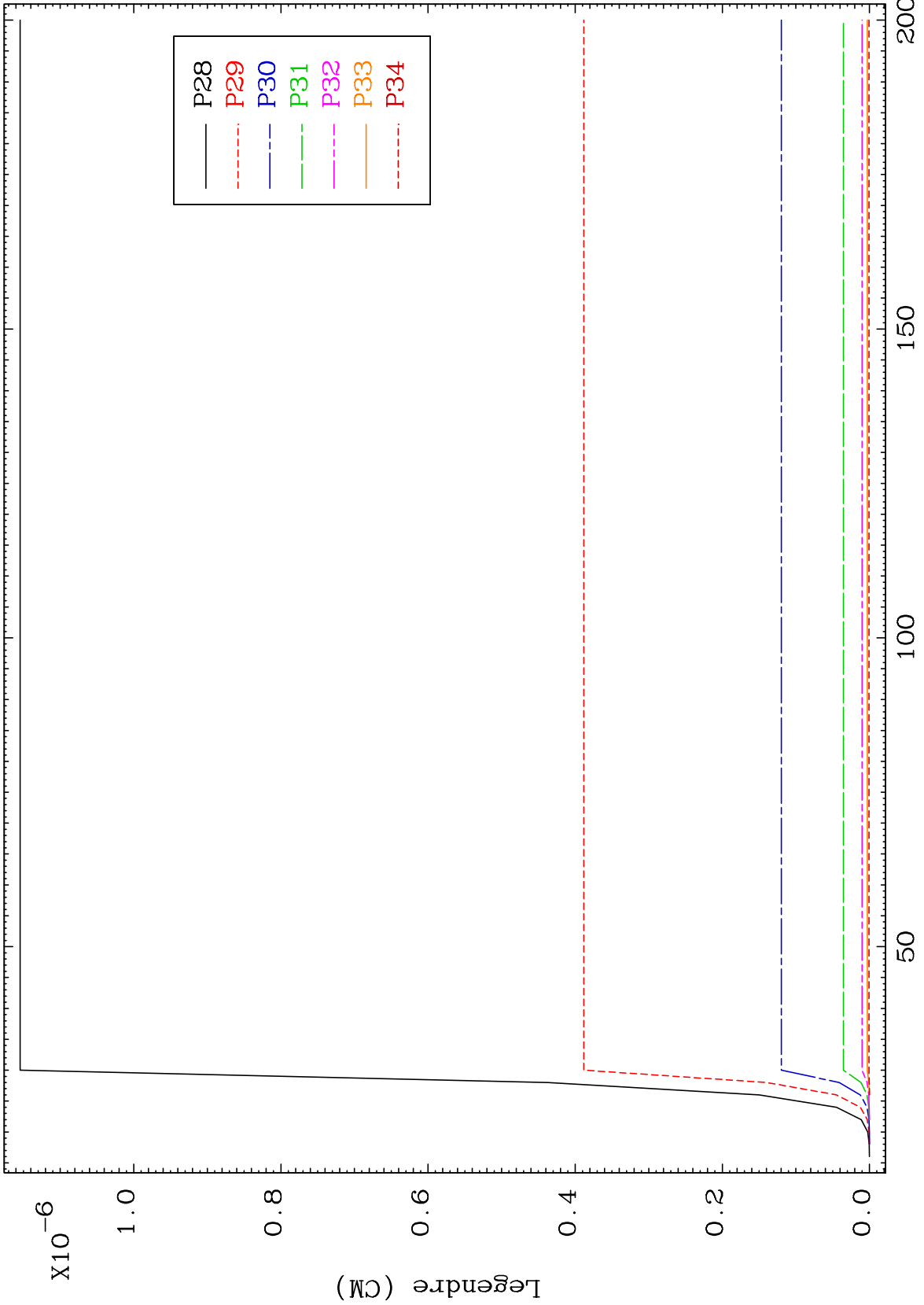
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



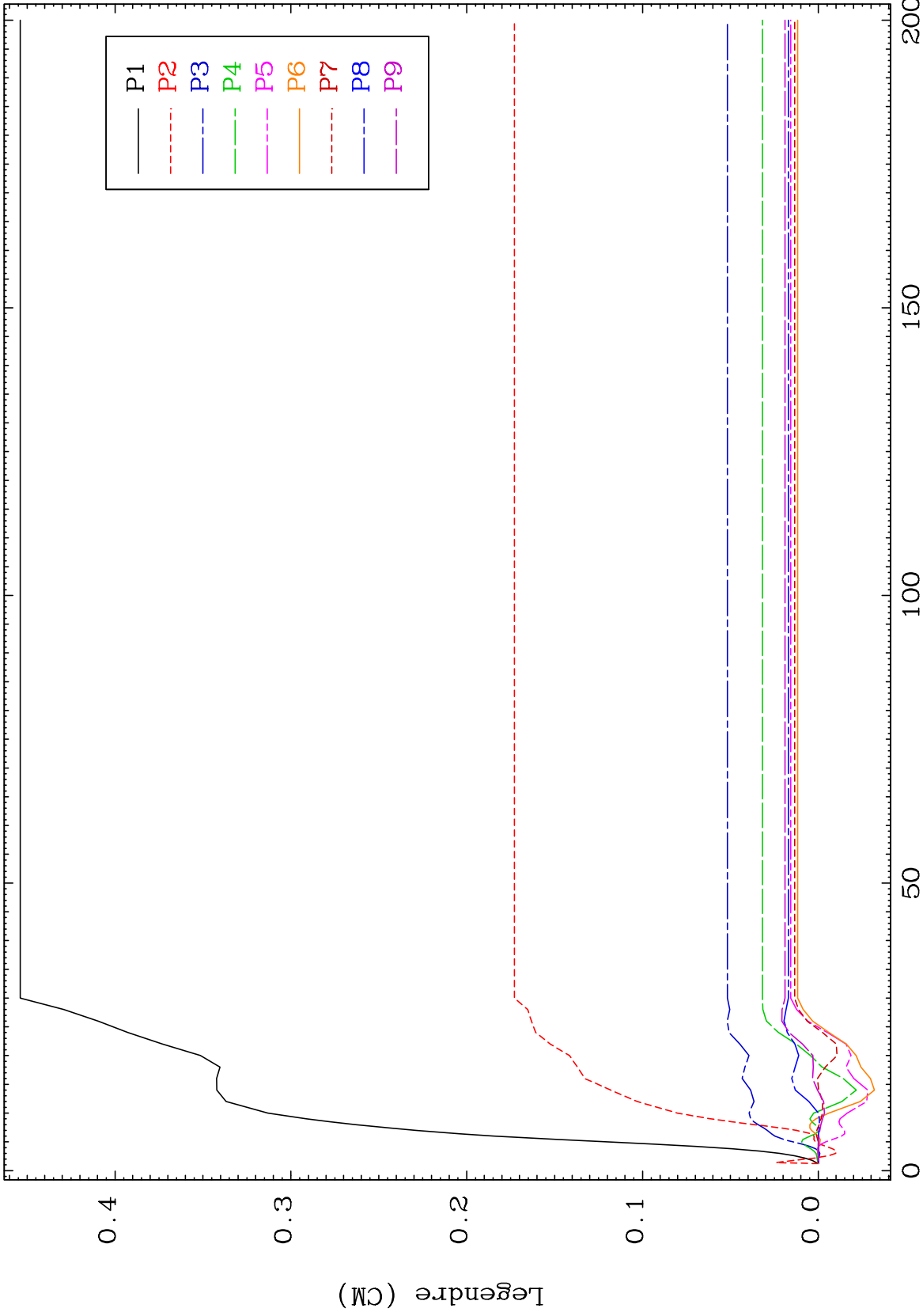
111

41-Nb-103

MAT 4155

MT= 74 (n,n') Level  
Legendre Coefficients

41-Nb-103



112

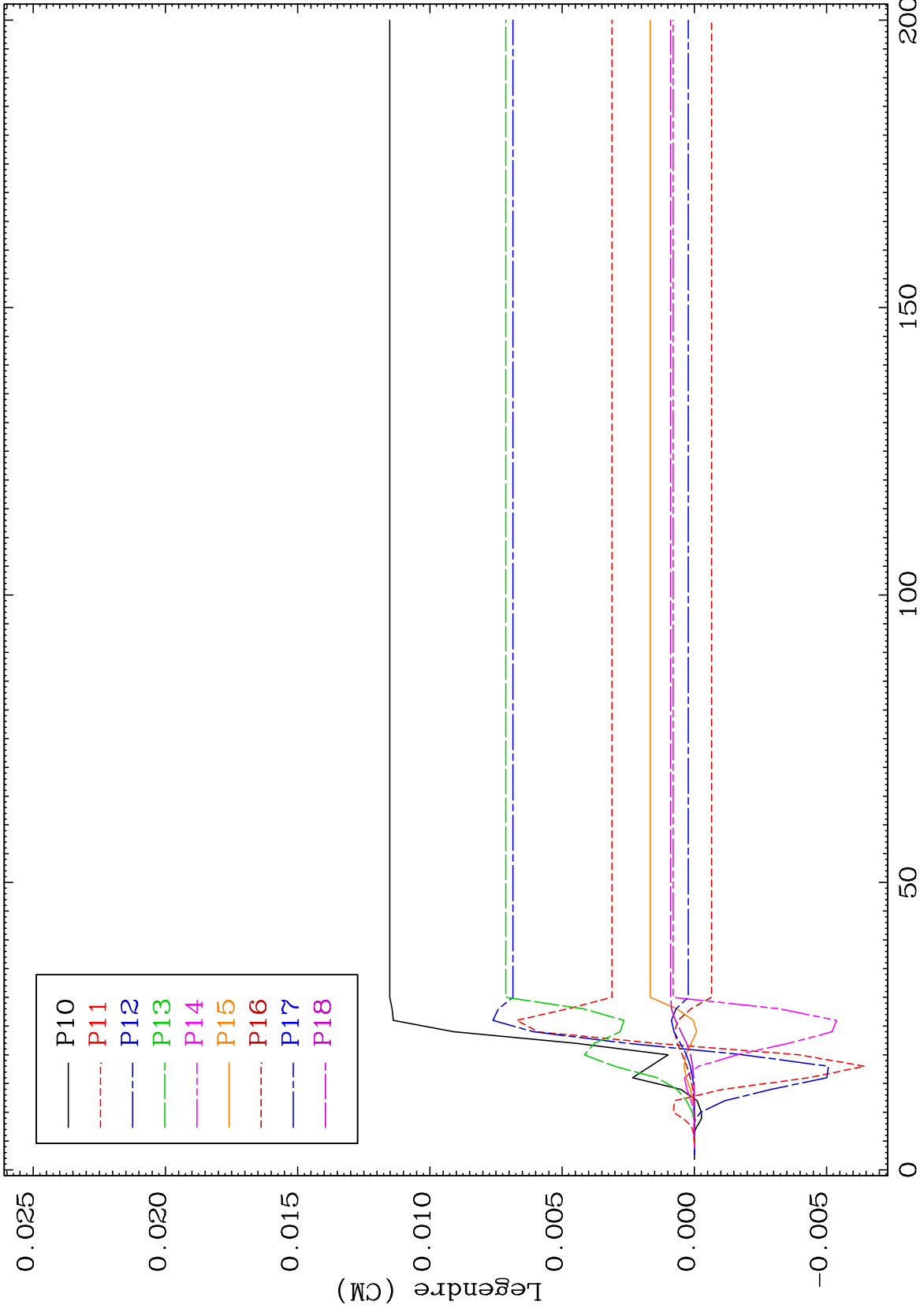
Incident Energy (MeV)

41-Nb-103

MAT 4155

MT= 74 (n,n') Level  
Legendre Coefficients

41-Nb-103



113

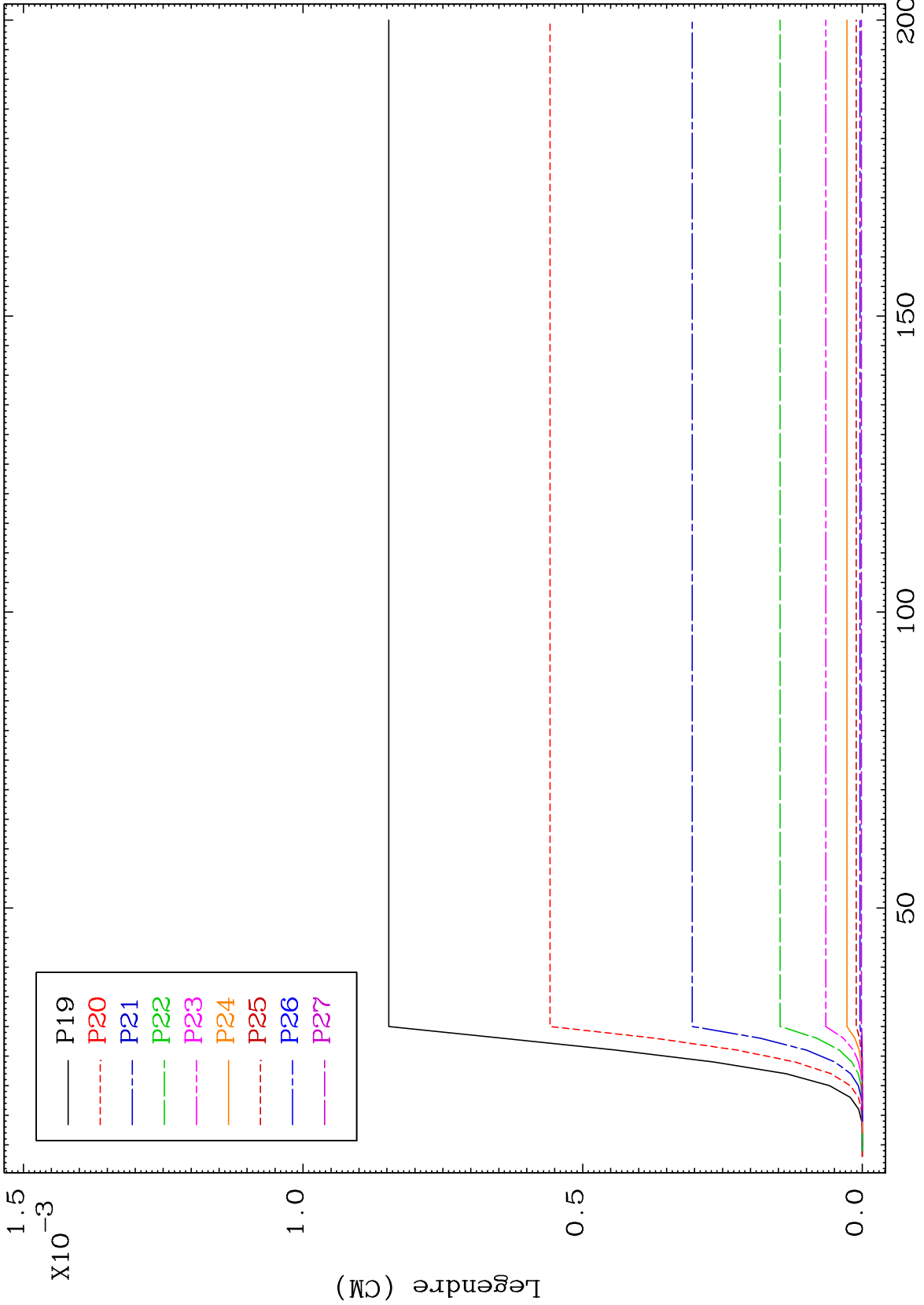
Incident Energy (MeV)

41-Nb-103

MAT 4155

MT= 74 (n,n') Level  
Legendre Coefficients

41-Nb-103



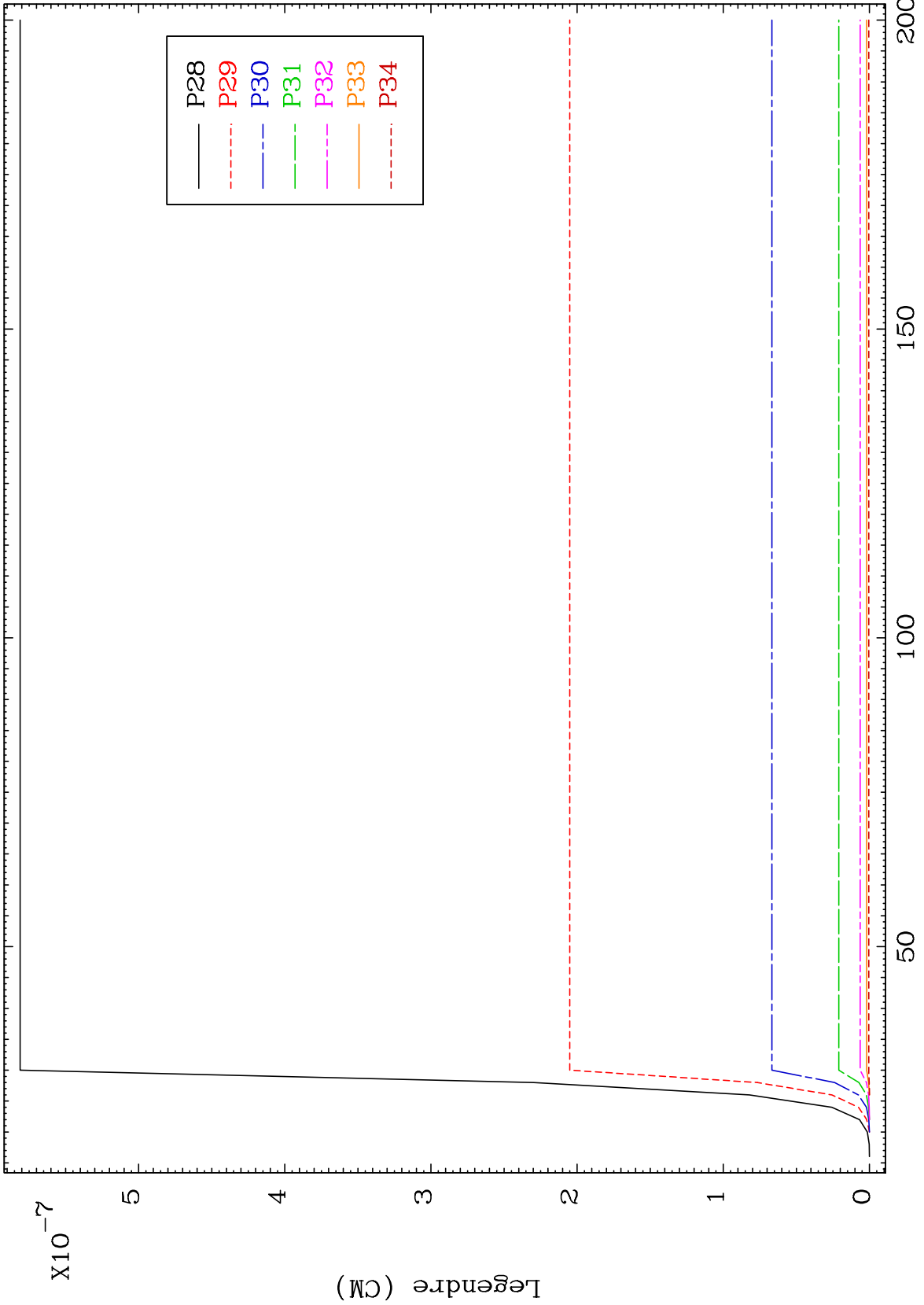
114

41-Nb-103

MAT 4155

MT= 74 (n,n') Level  
Legendre Coefficients

41-Nb-103



115

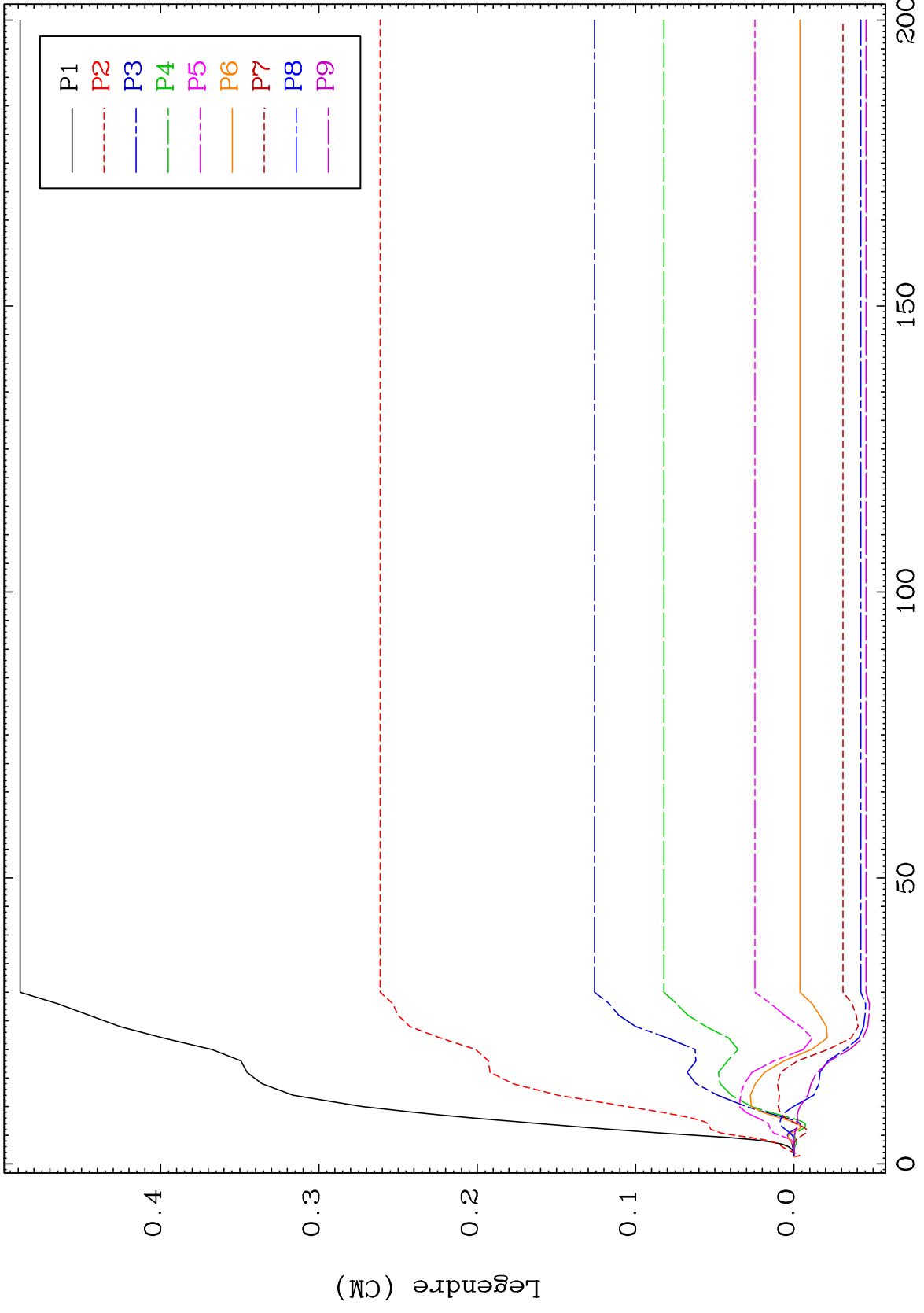
Incident Energy (MeV)

41-Nb-103

MAT 4155

MT= 75 (n,n') Level  
Legendre Coefficients

41-Nb-103



116

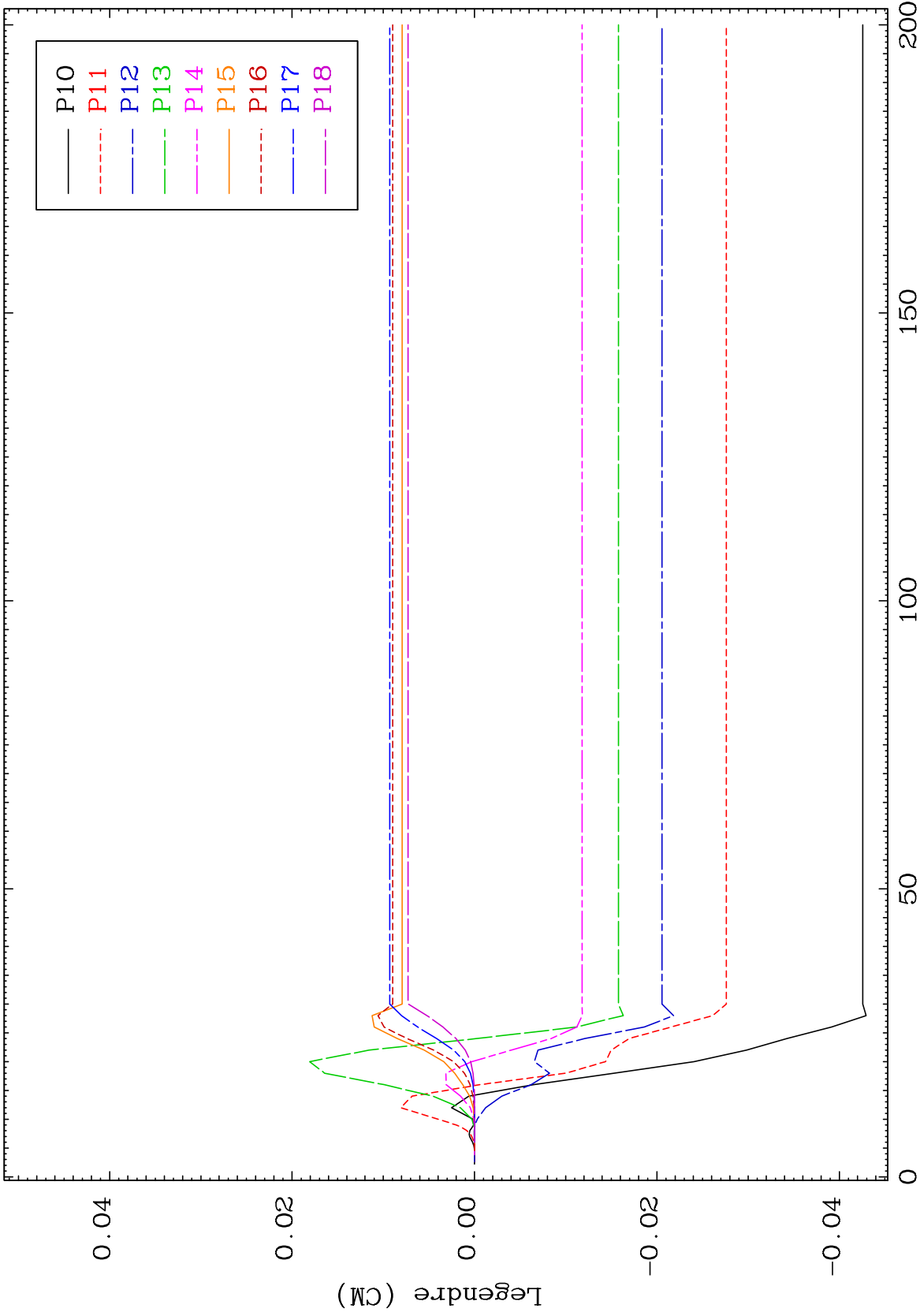
Incident Energy (MeV)

41-Nb-103

MAT 4155

MT= 75 (n,n') Level  
Legendre Coefficients

41-Nb-103



117

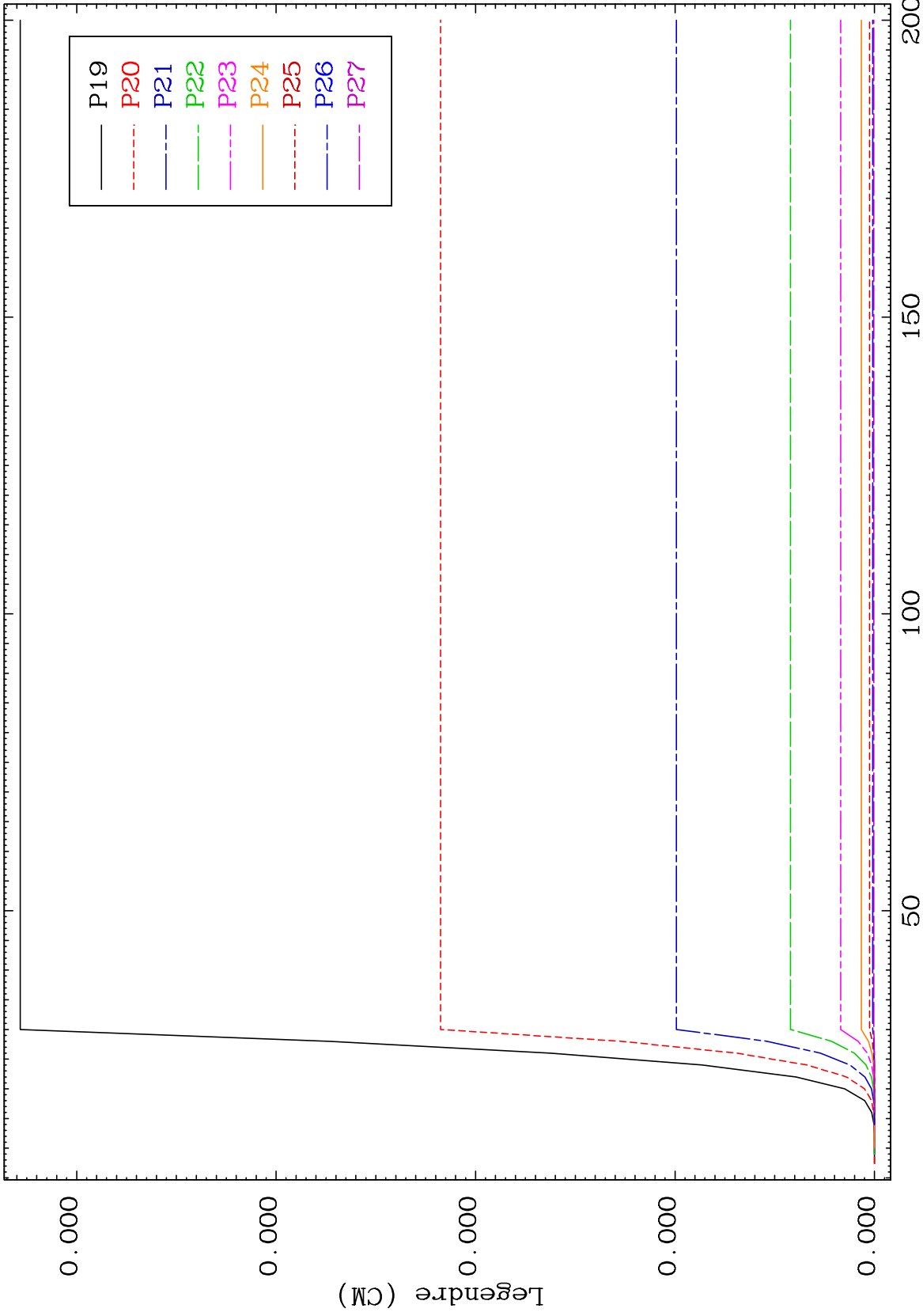
Incident Energy (MeV)

41-Nb-103

MAT 4155

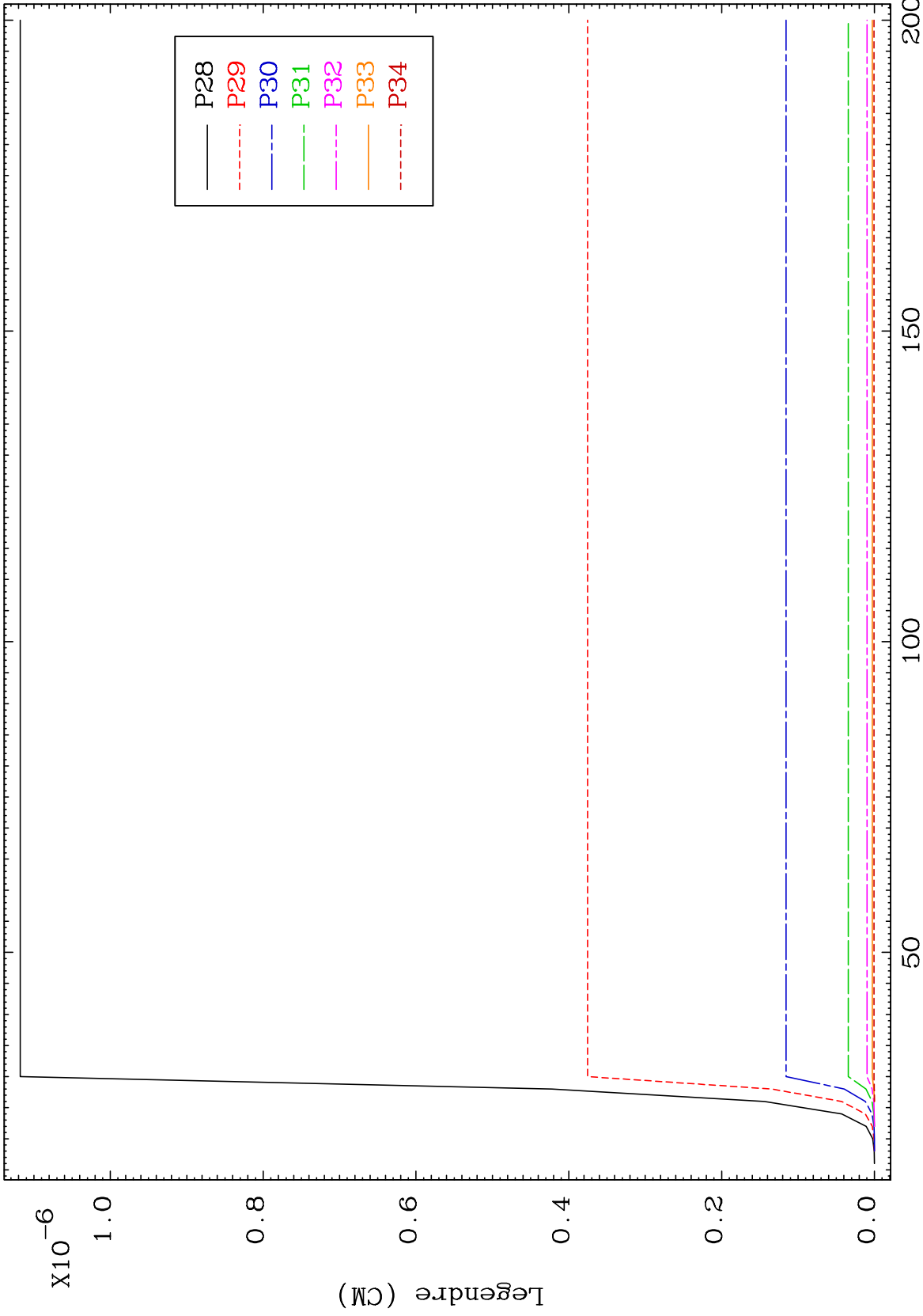
MT= 75 (n,n') Level  
Legendre Coefficients

41-Nb-103



118

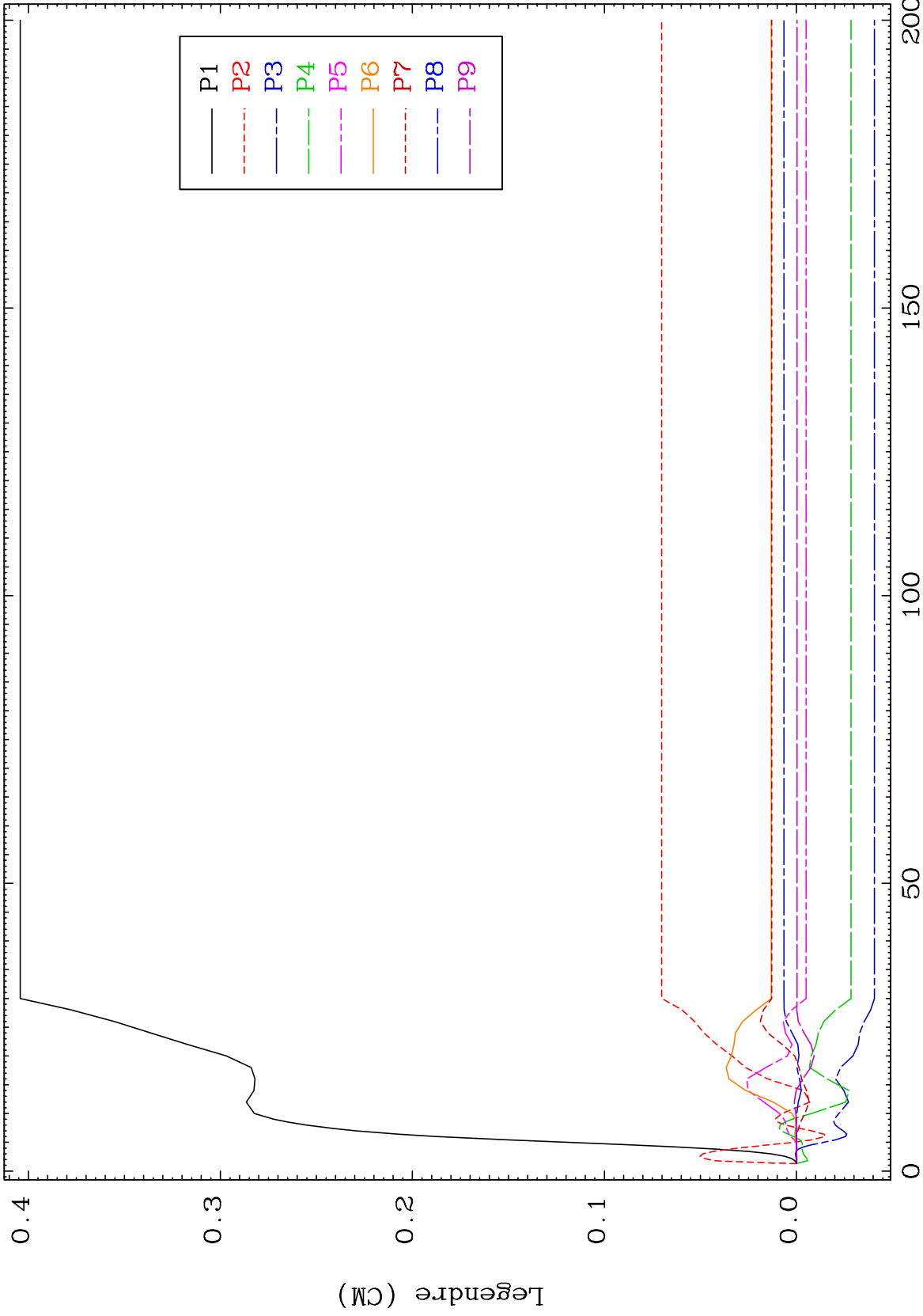
41-Nb-103



MAT 4155

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

41-Nb-103



41-Nb-103

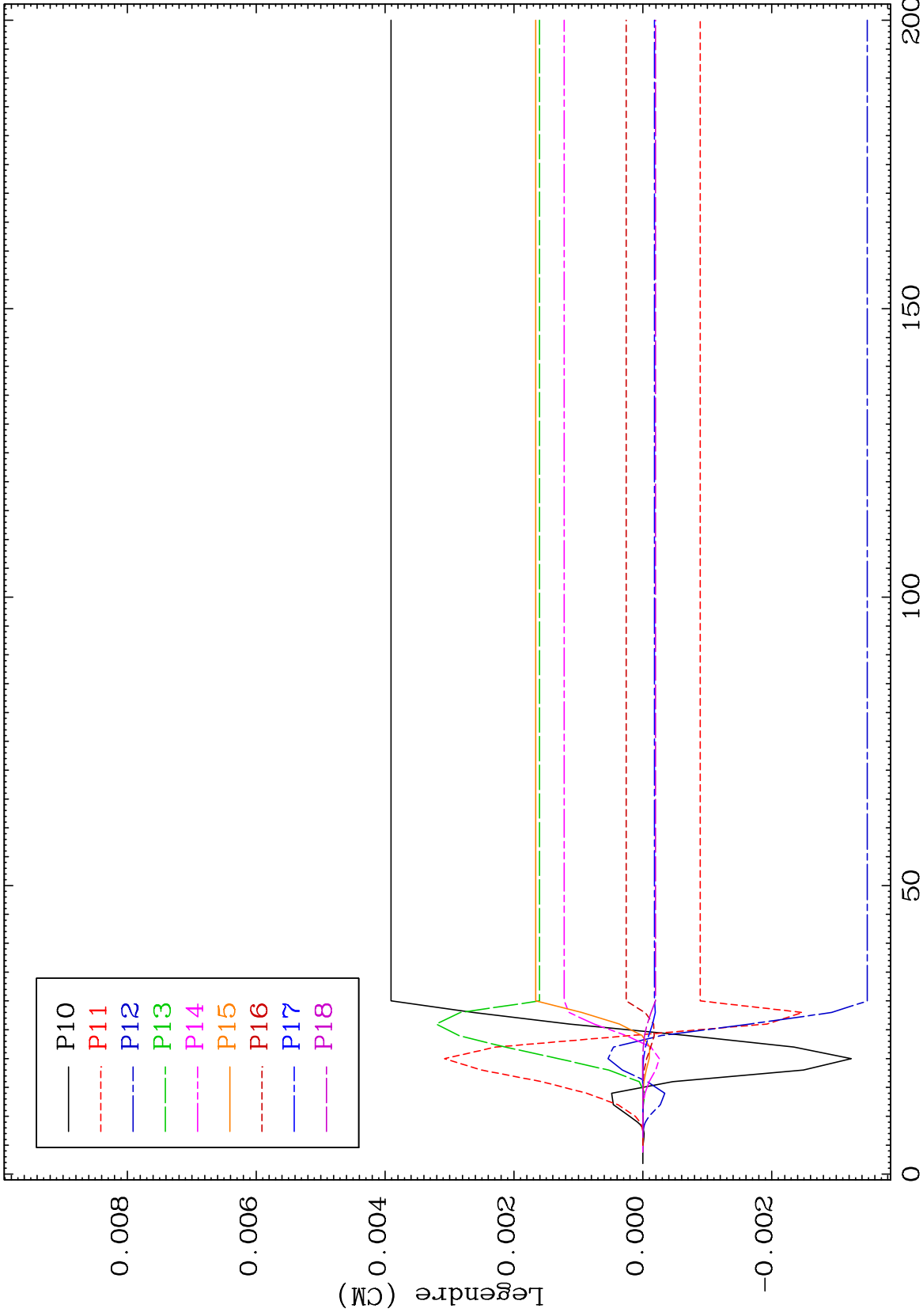
Incident Energy (MeV)

120

MAT 4155

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

41-Nb-103



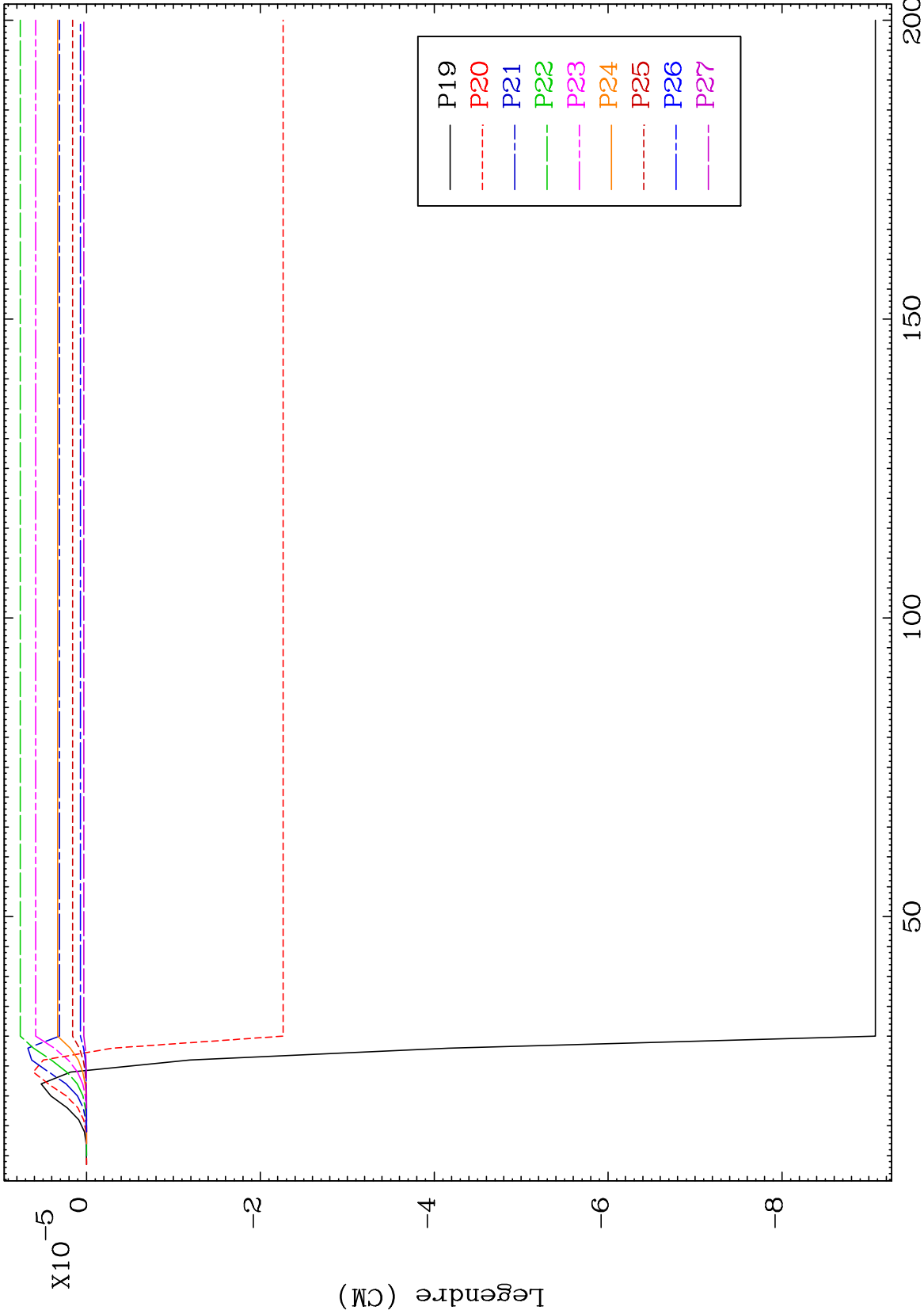
121

41-Nb-103

MAT 4155

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

41-Nb-103



122

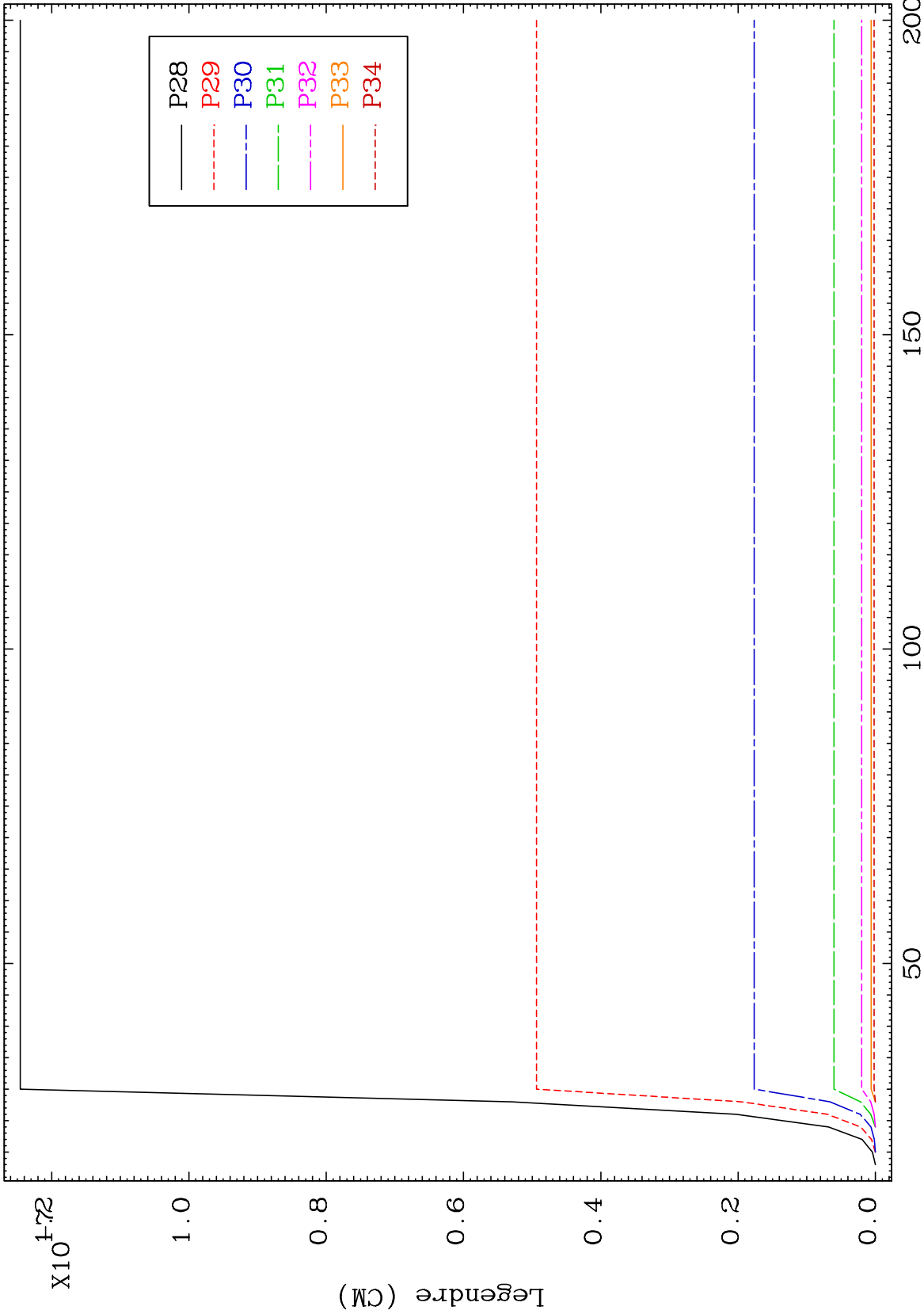
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



123

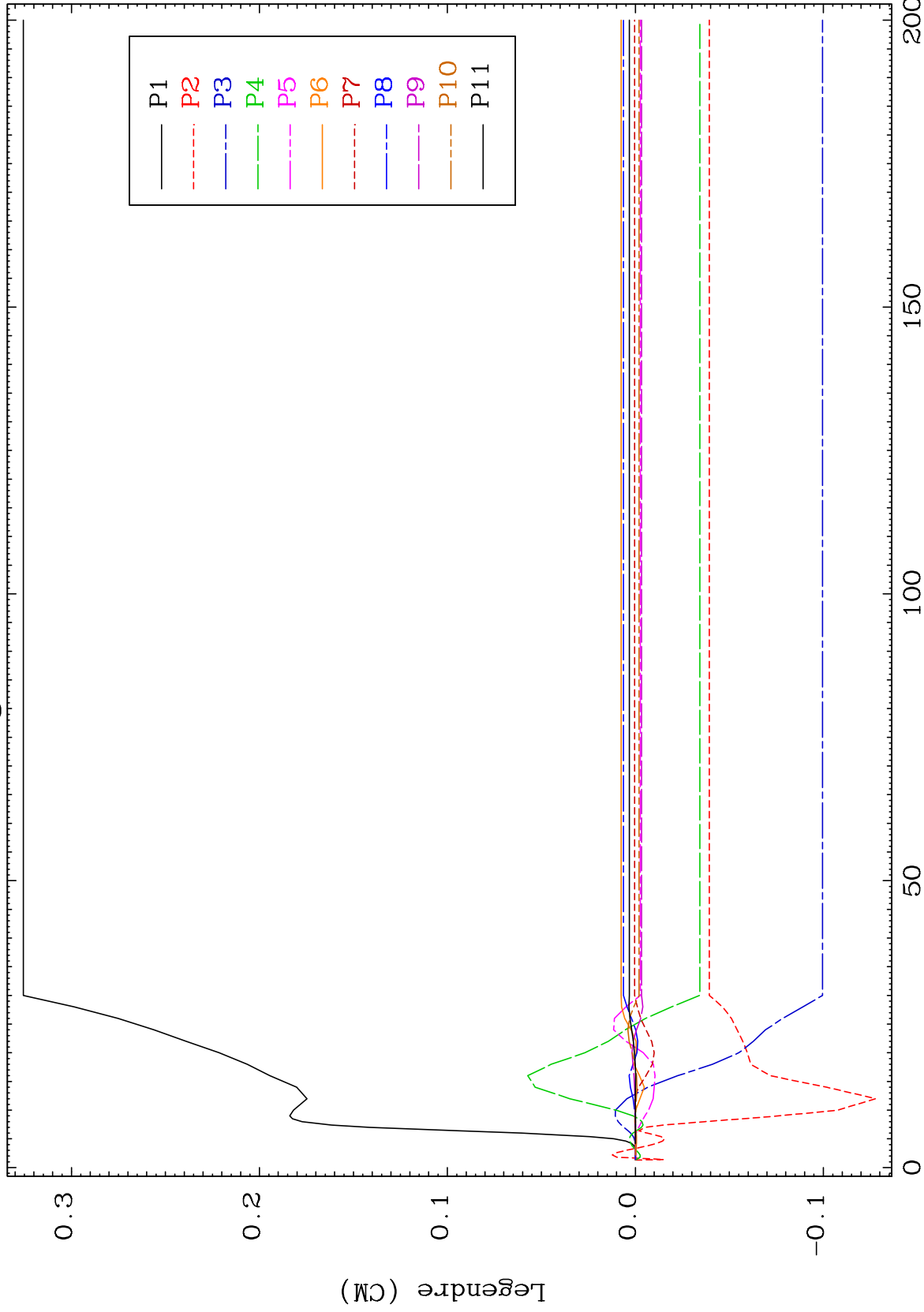
Incident Energy (MeV)

41-Nb-103

MAT 4155

MT= 77 (n,n') Level  
Legendre Coefficients

41-Nb-103



124

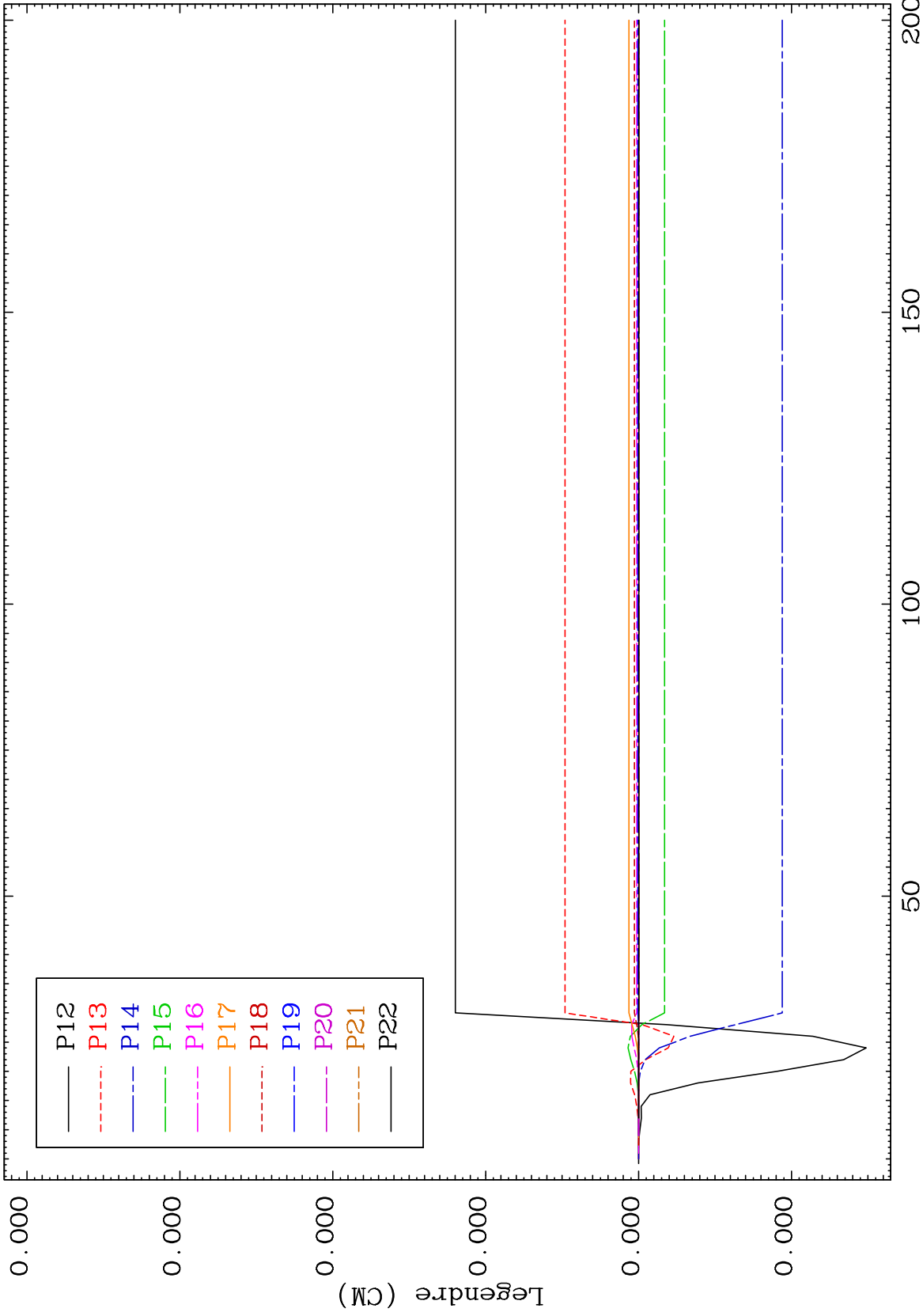
Incident Energy (MeV)

41-Nb-103

MAT 4155

MT= 77 (n,n') Level  
Legendre Coefficients

41-Nb-103



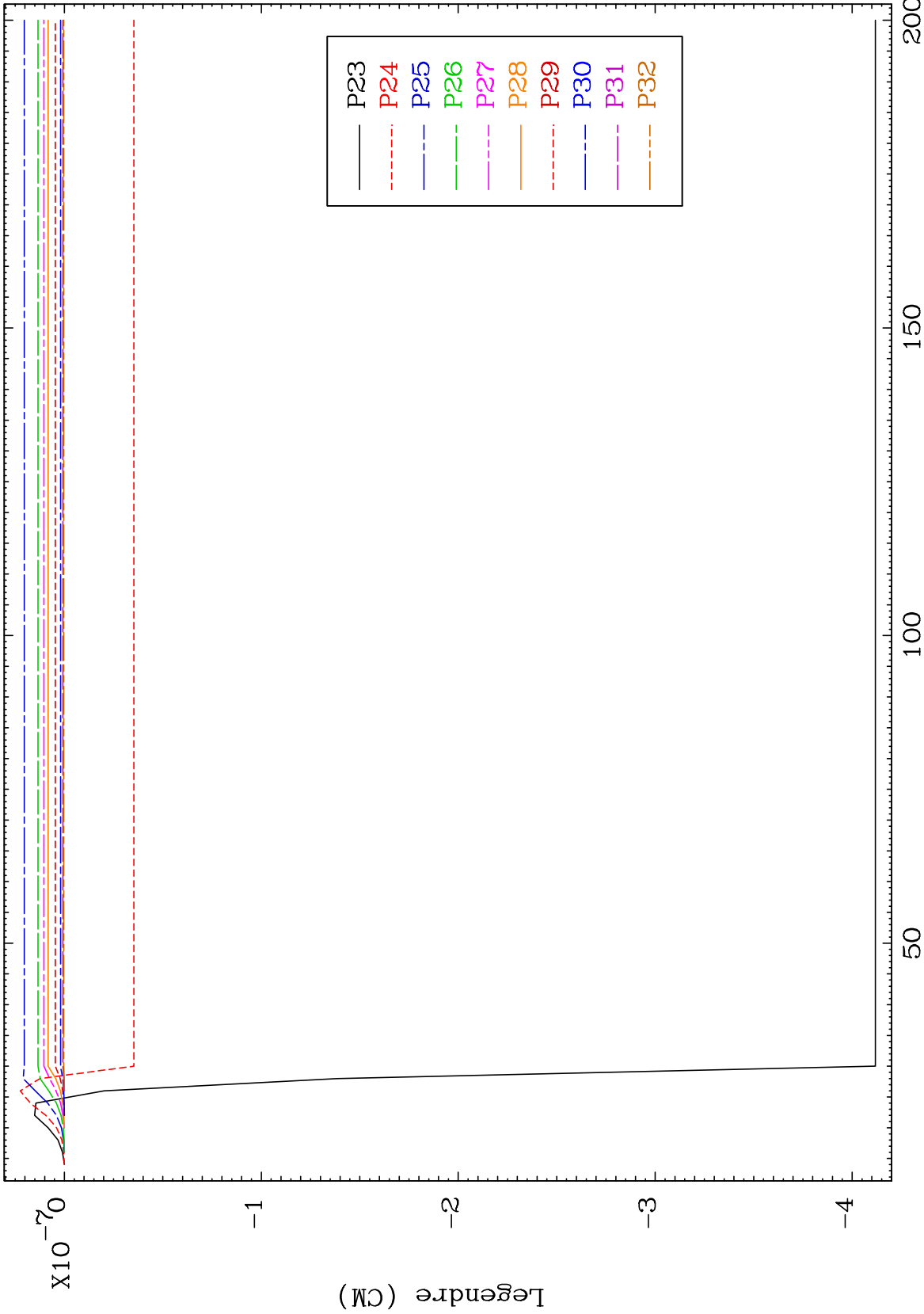
125

41-Nb-103

MAT 4155

MT= 77 (n,n') Level  
Legendre Coefficients

41-Nb-103



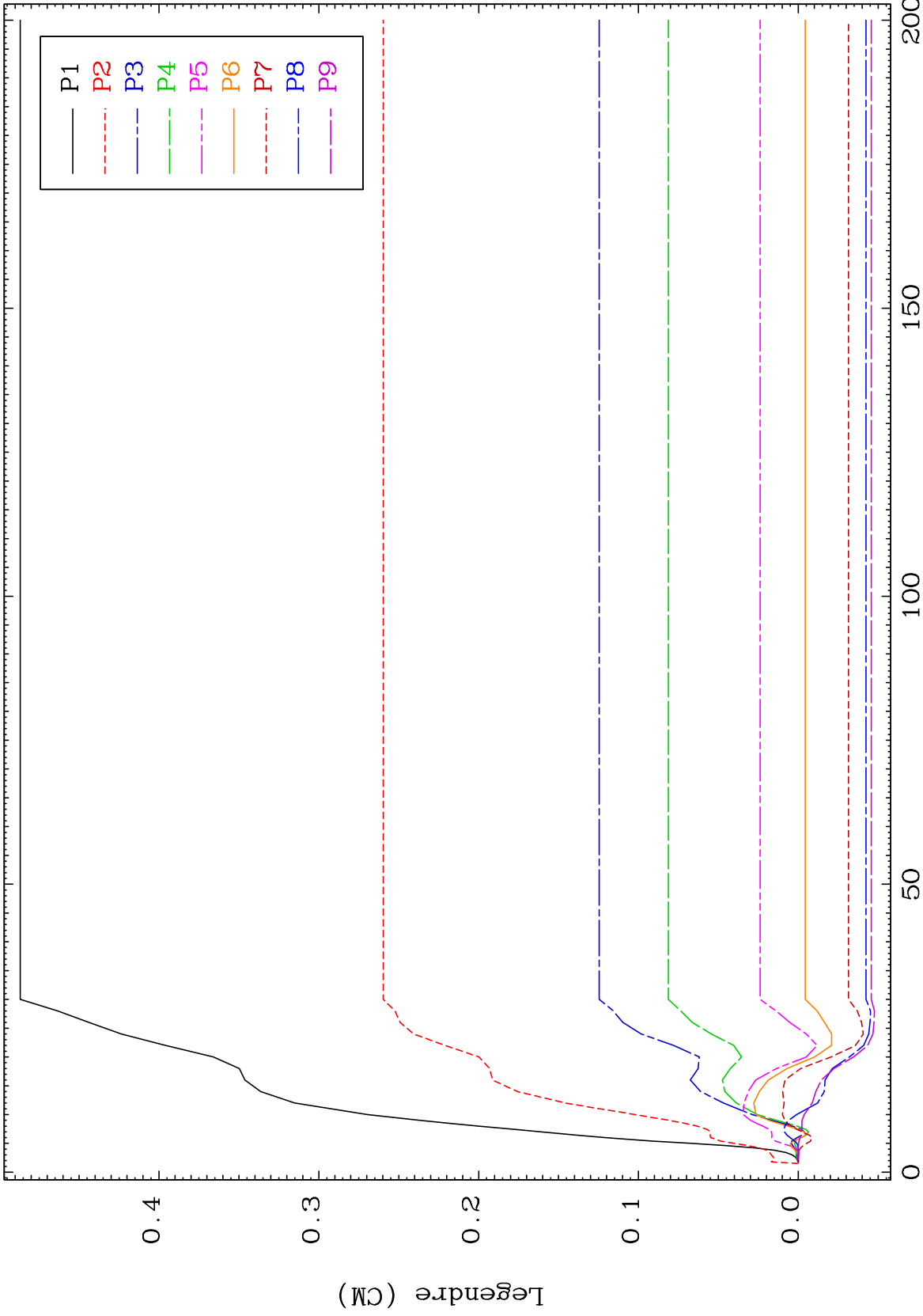
126

41-Nb-103

MAT 4155

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

41-Nb-103



41-Nb-103

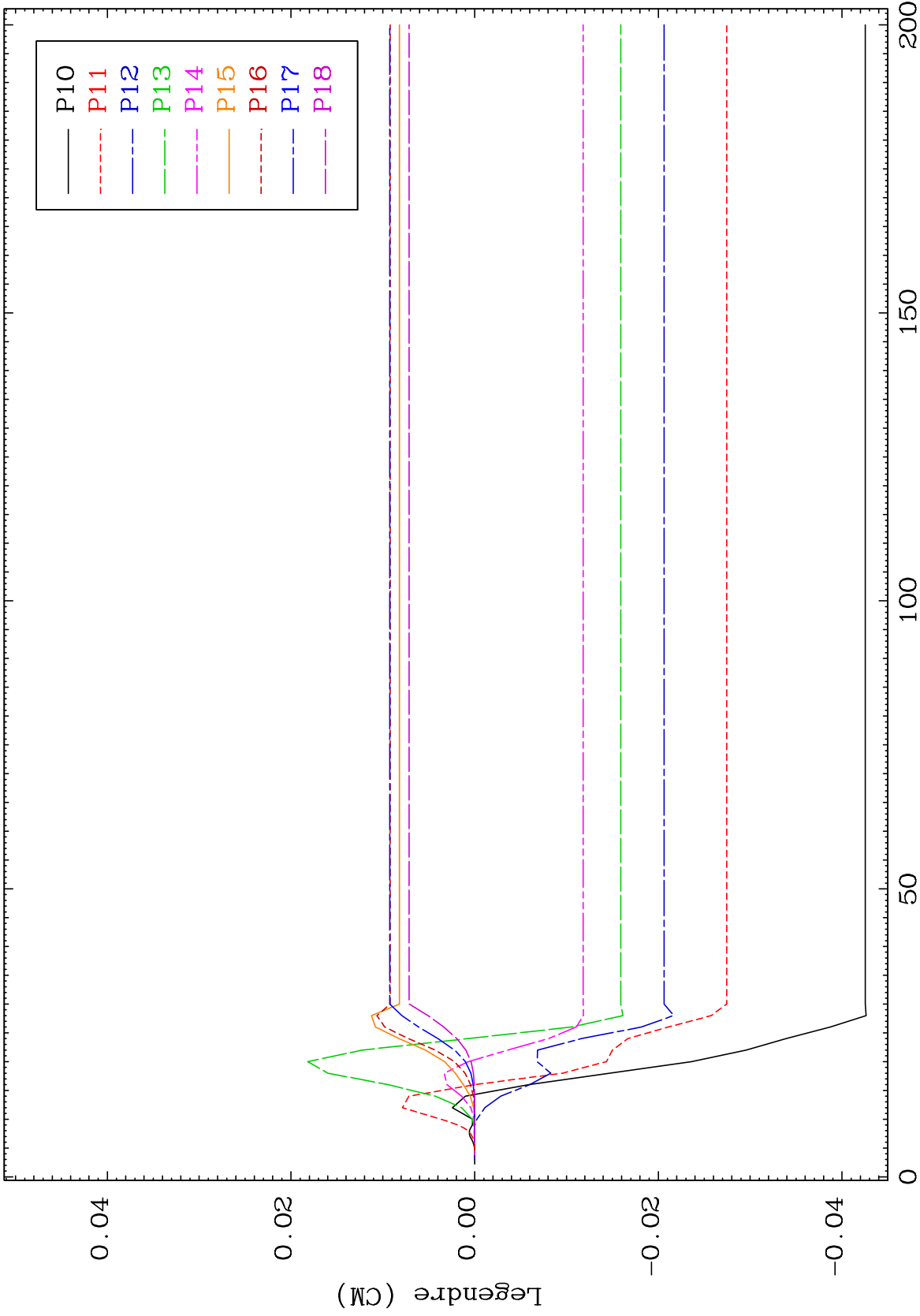
Incident Energy (MeV)

127

MAT 4155

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

41-Nb-103



128

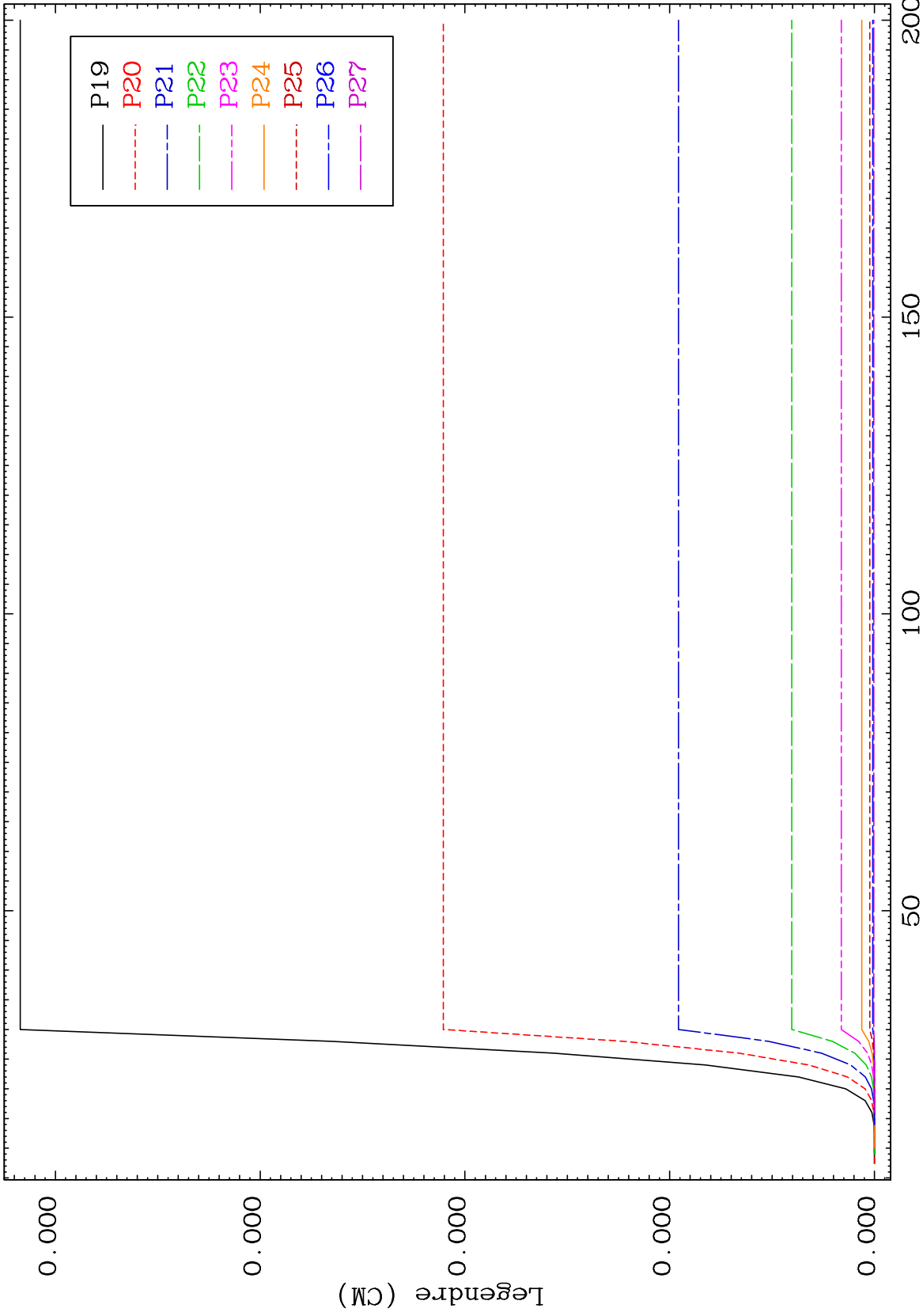
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



129

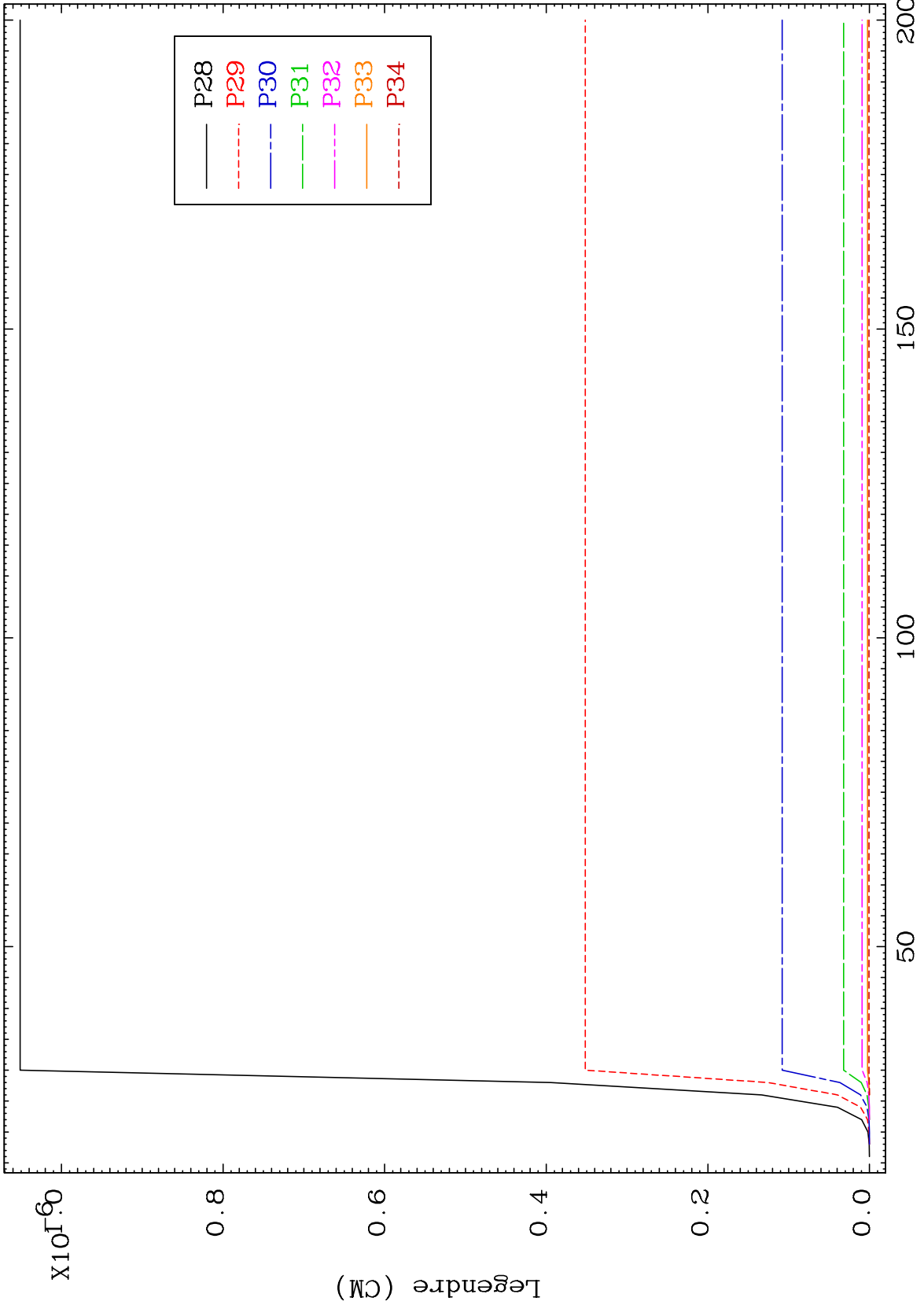
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



130

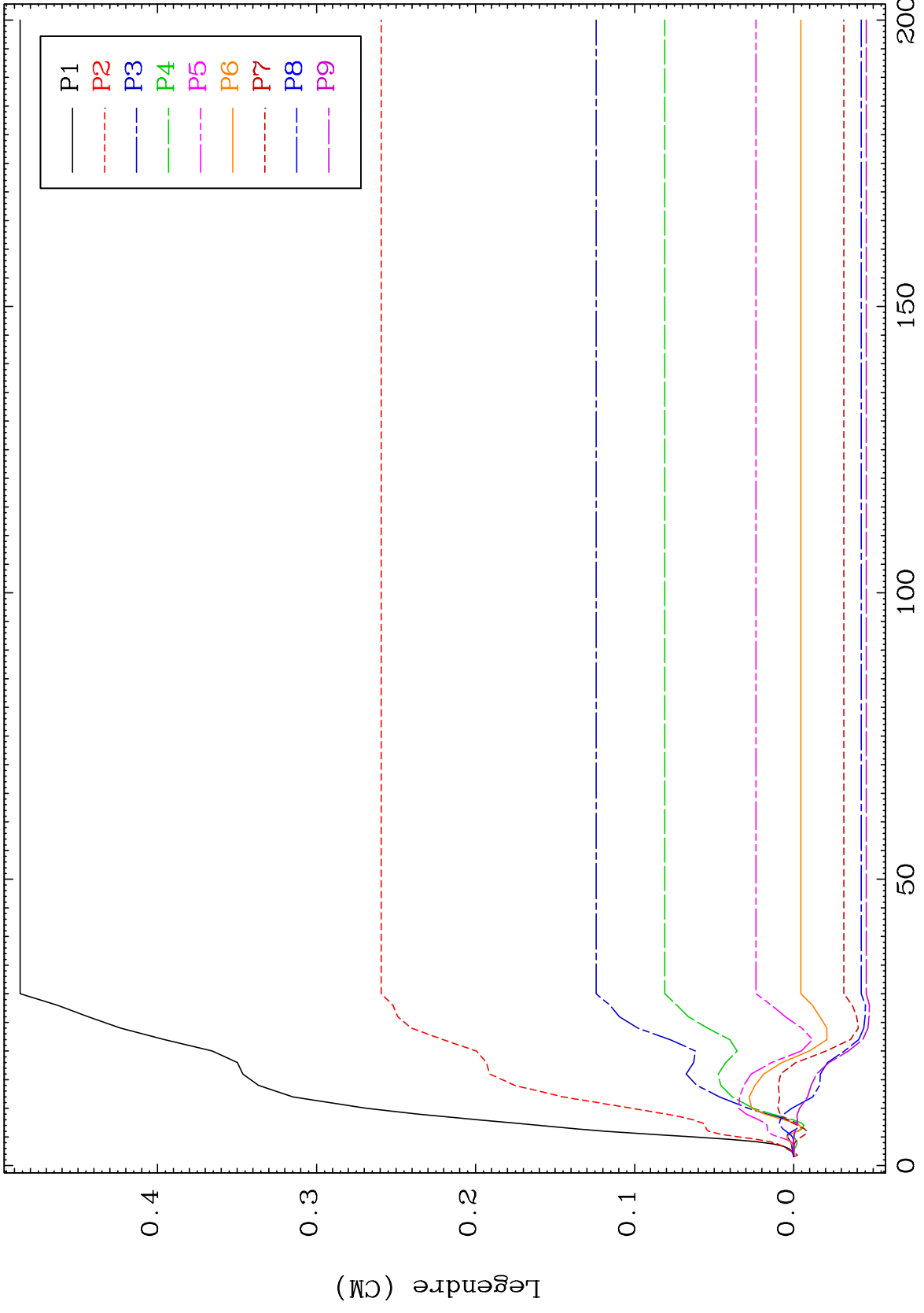
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



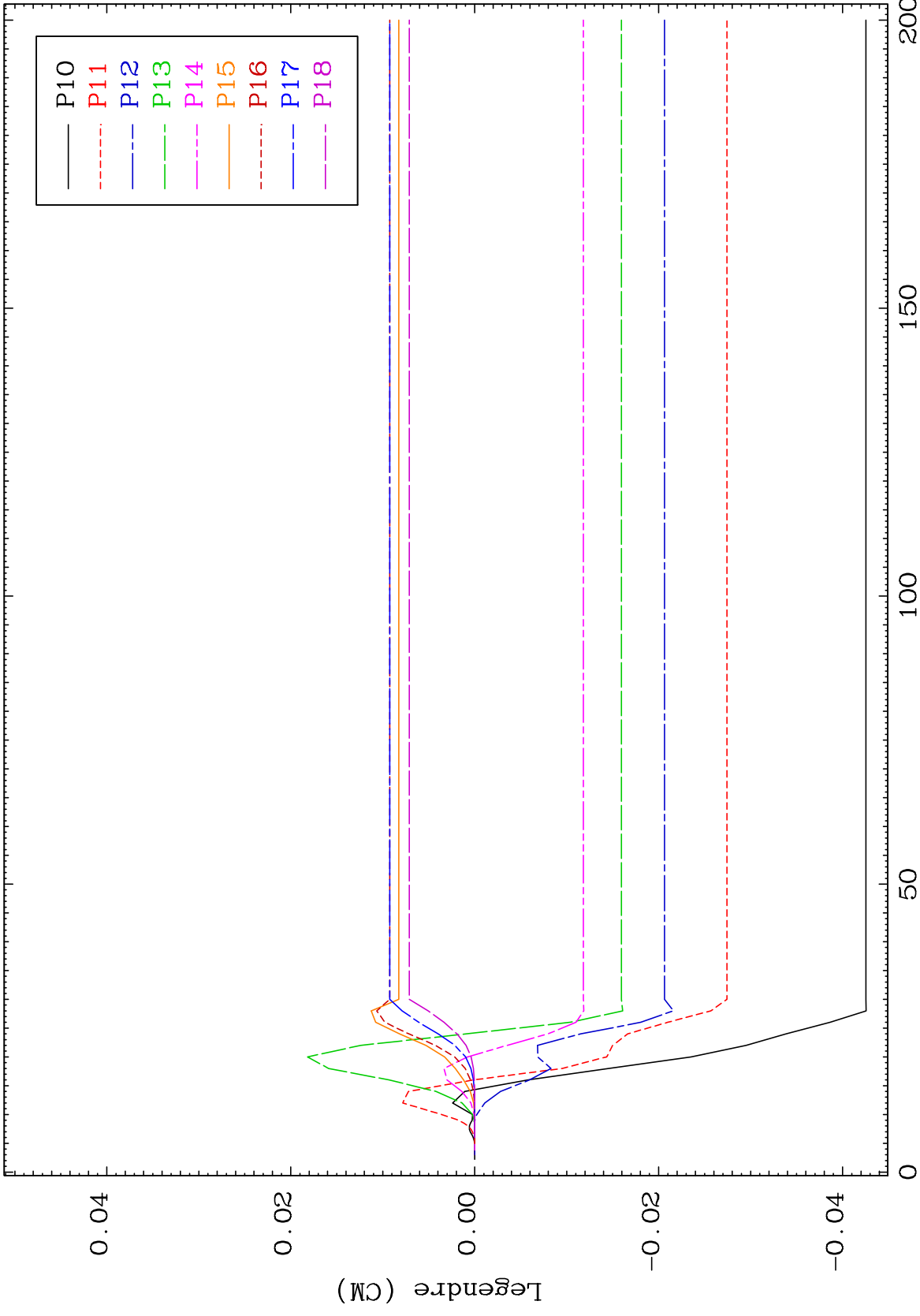
131

41-Nb-103

MAT 4155

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

41-Nb-103



132

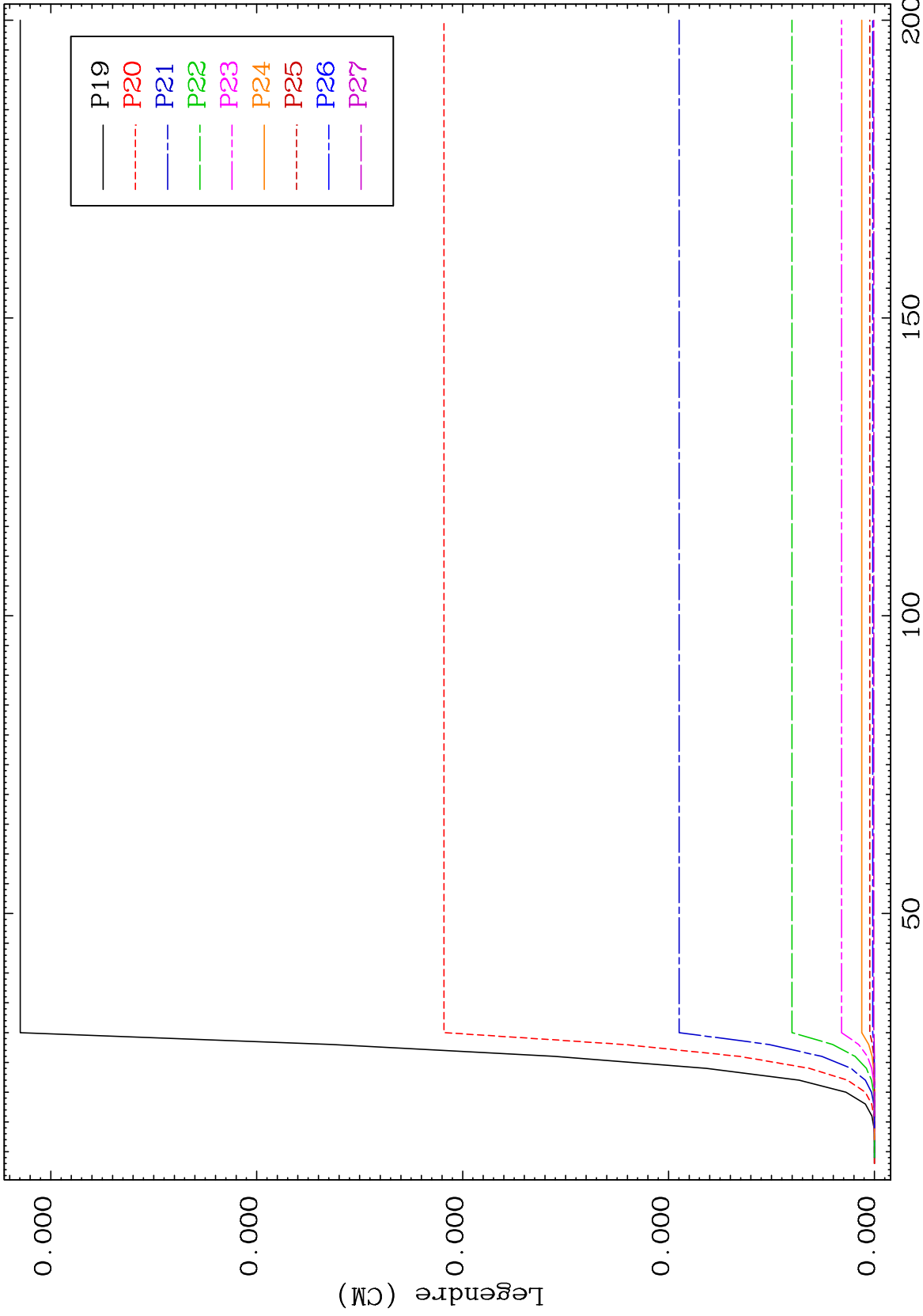
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



133

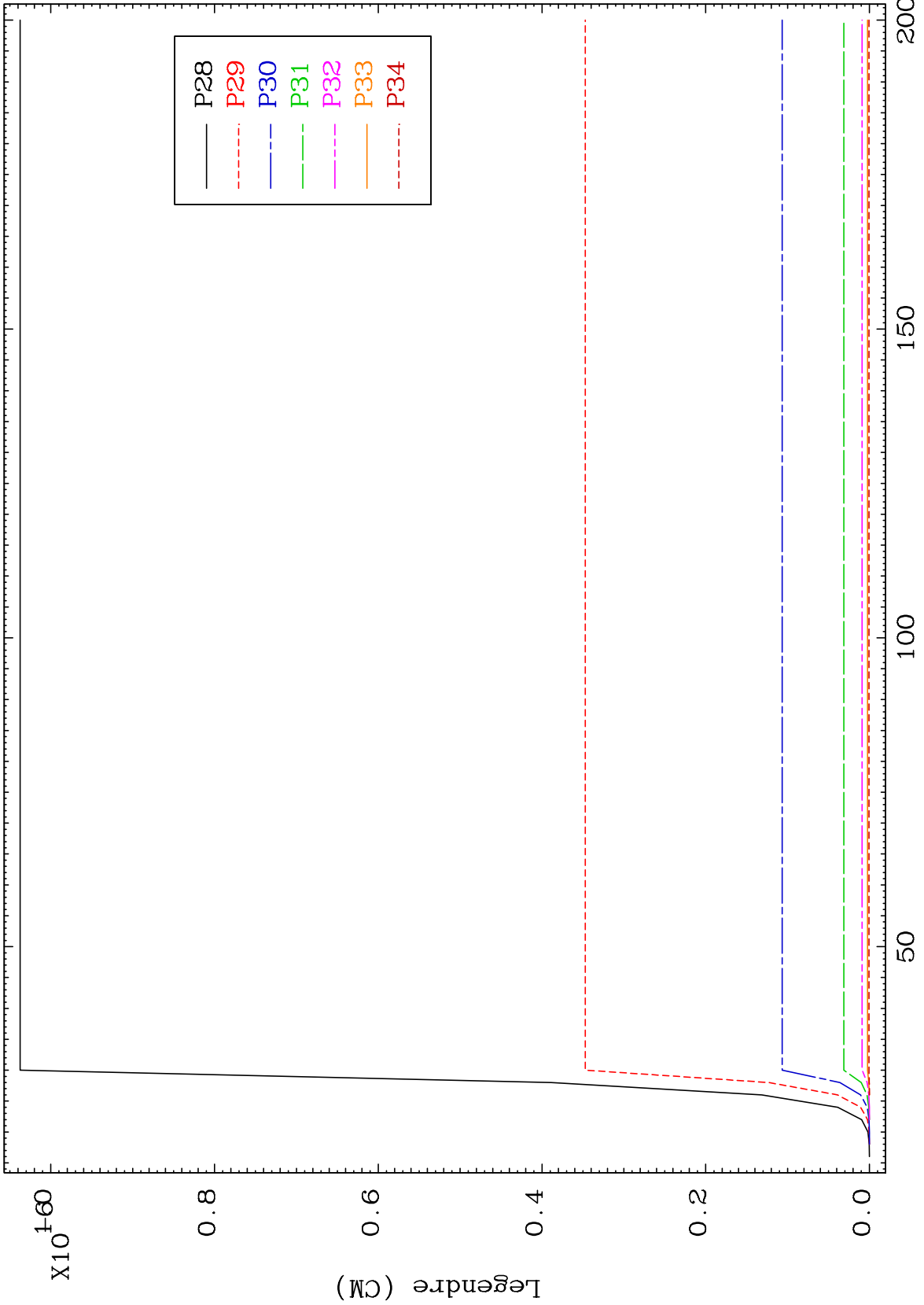
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



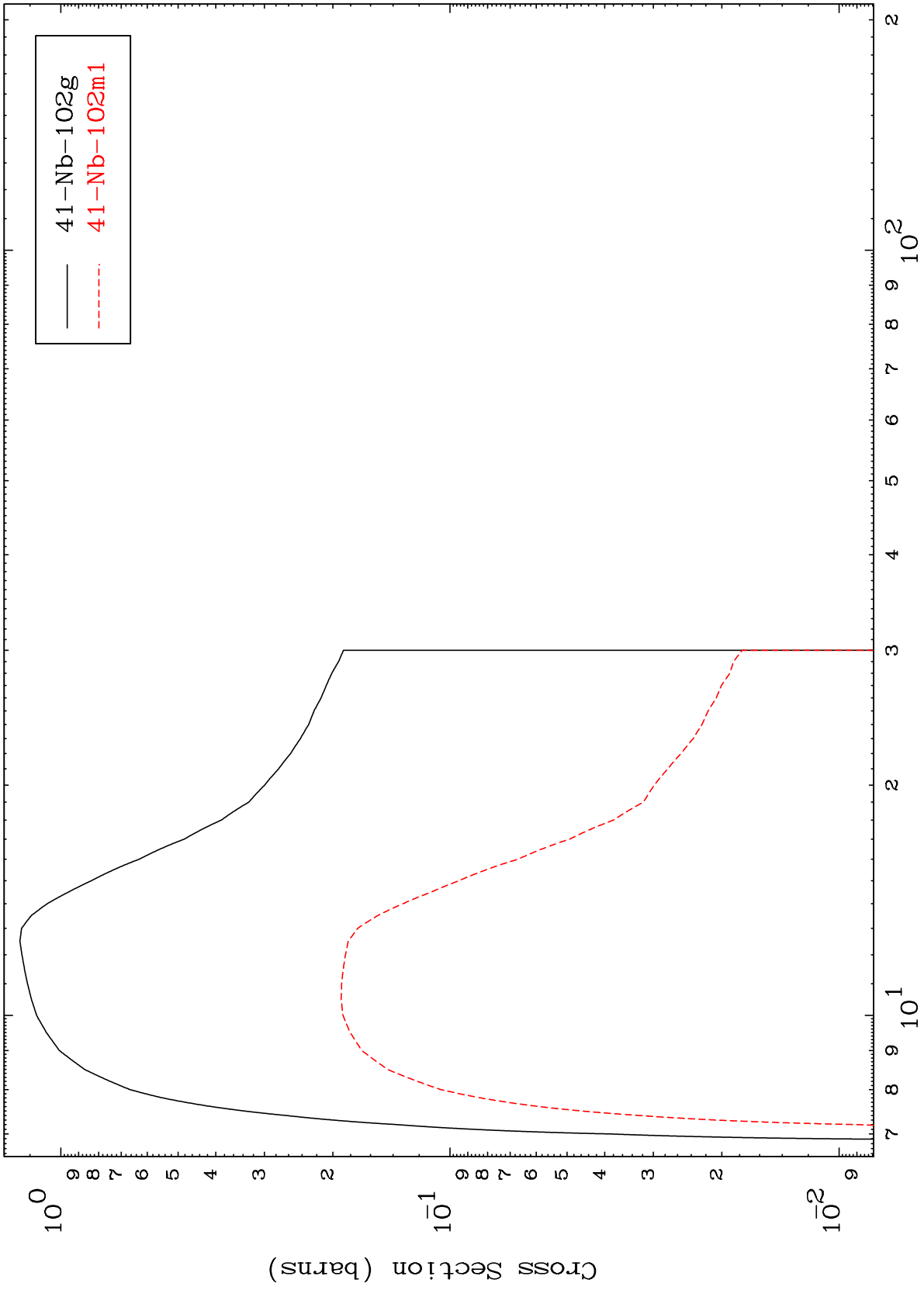
134

41-Nb-103

MAT 4155

41-Nb-103

(n,2n)  
Radionuclide Production Cross Section



135

Incident Energy (MeV)

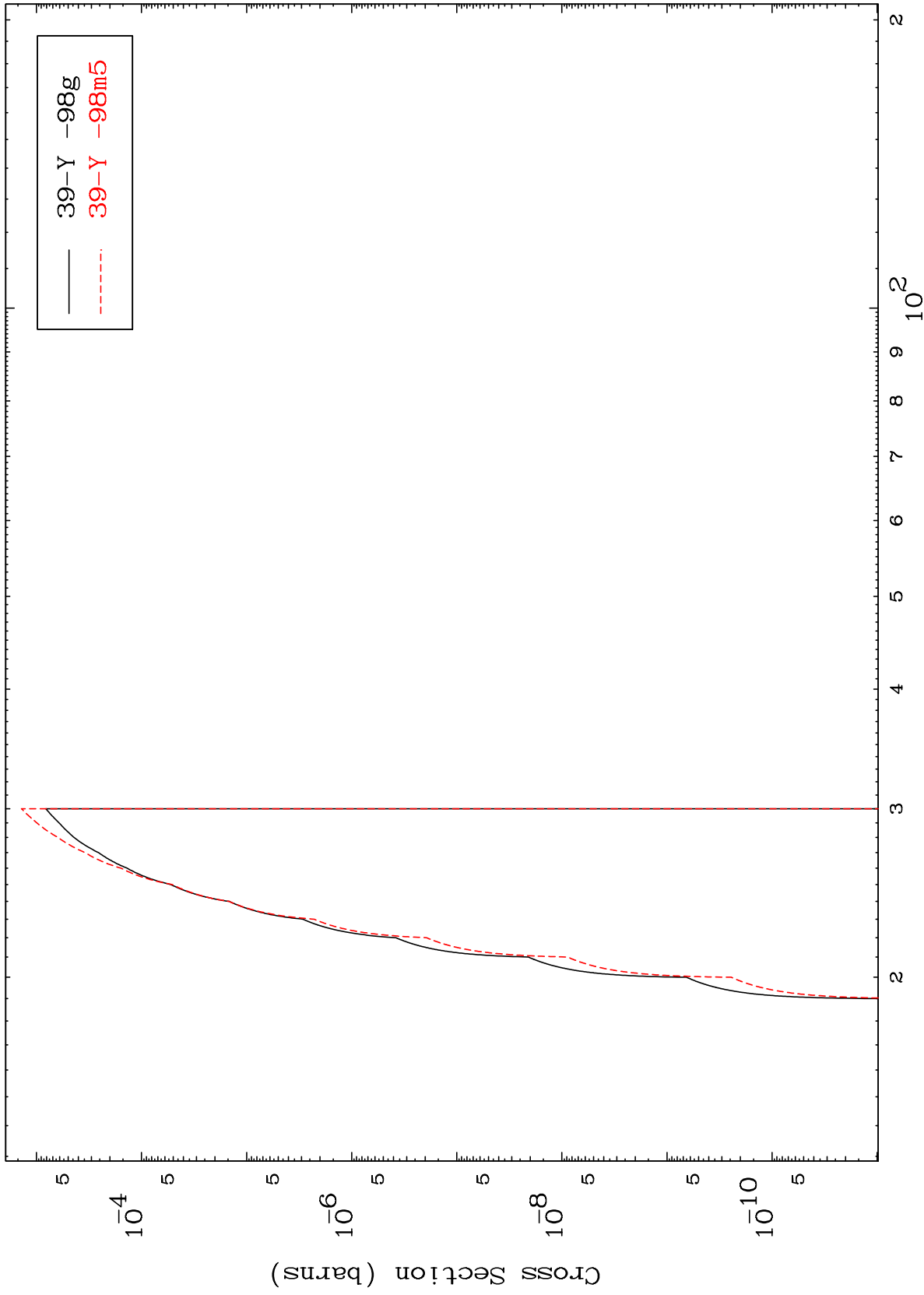
41-Nb-103

MAT 4155

(n,2n)  $\alpha$

41-Nb-103

Radionuclide Production Cross Section



136

Incident Energy (MeV)

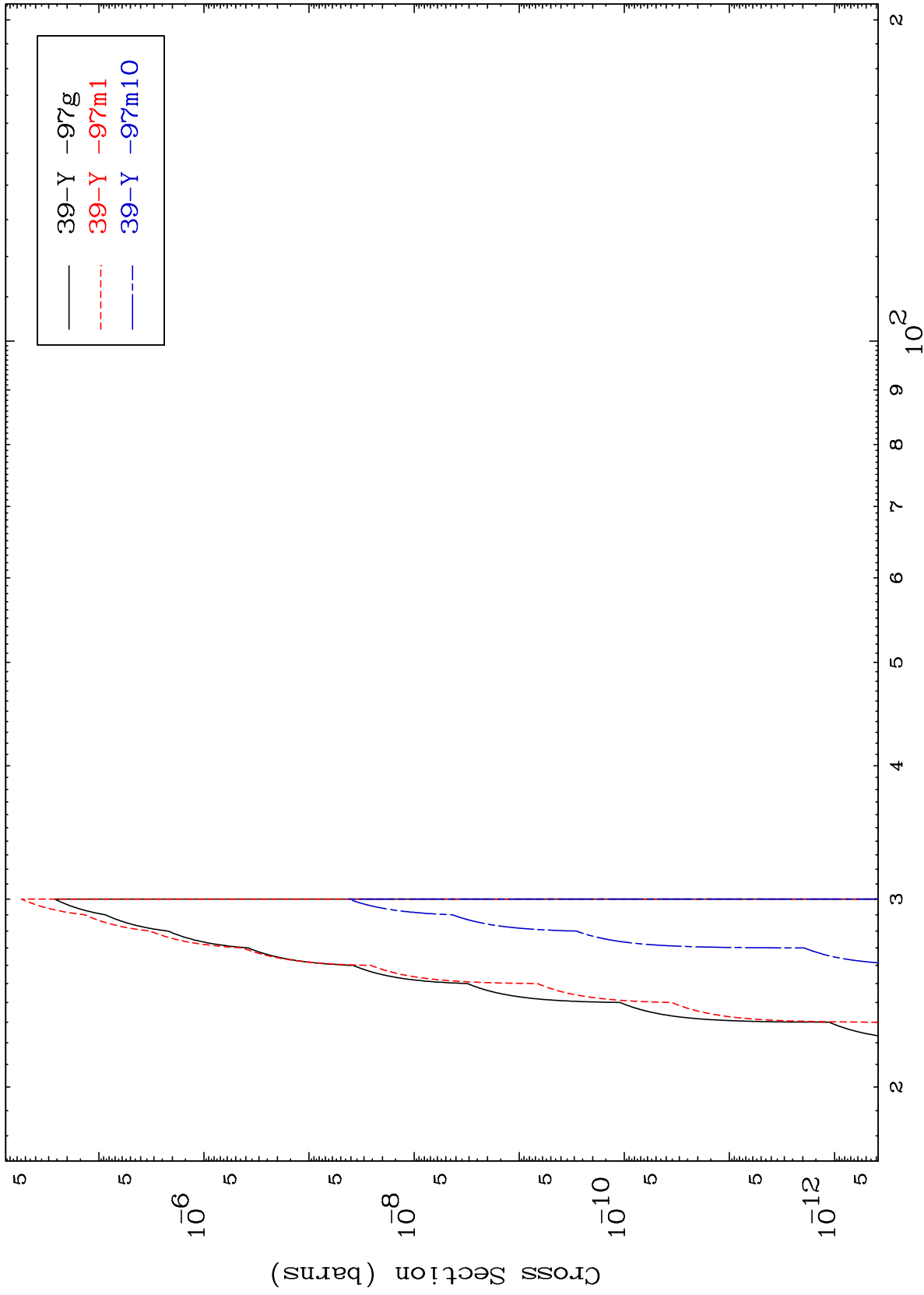
41-Nb-103

MAT 4155

(n,3n)  $\alpha$

41-Nb-103

Radionuclide Production Cross Section

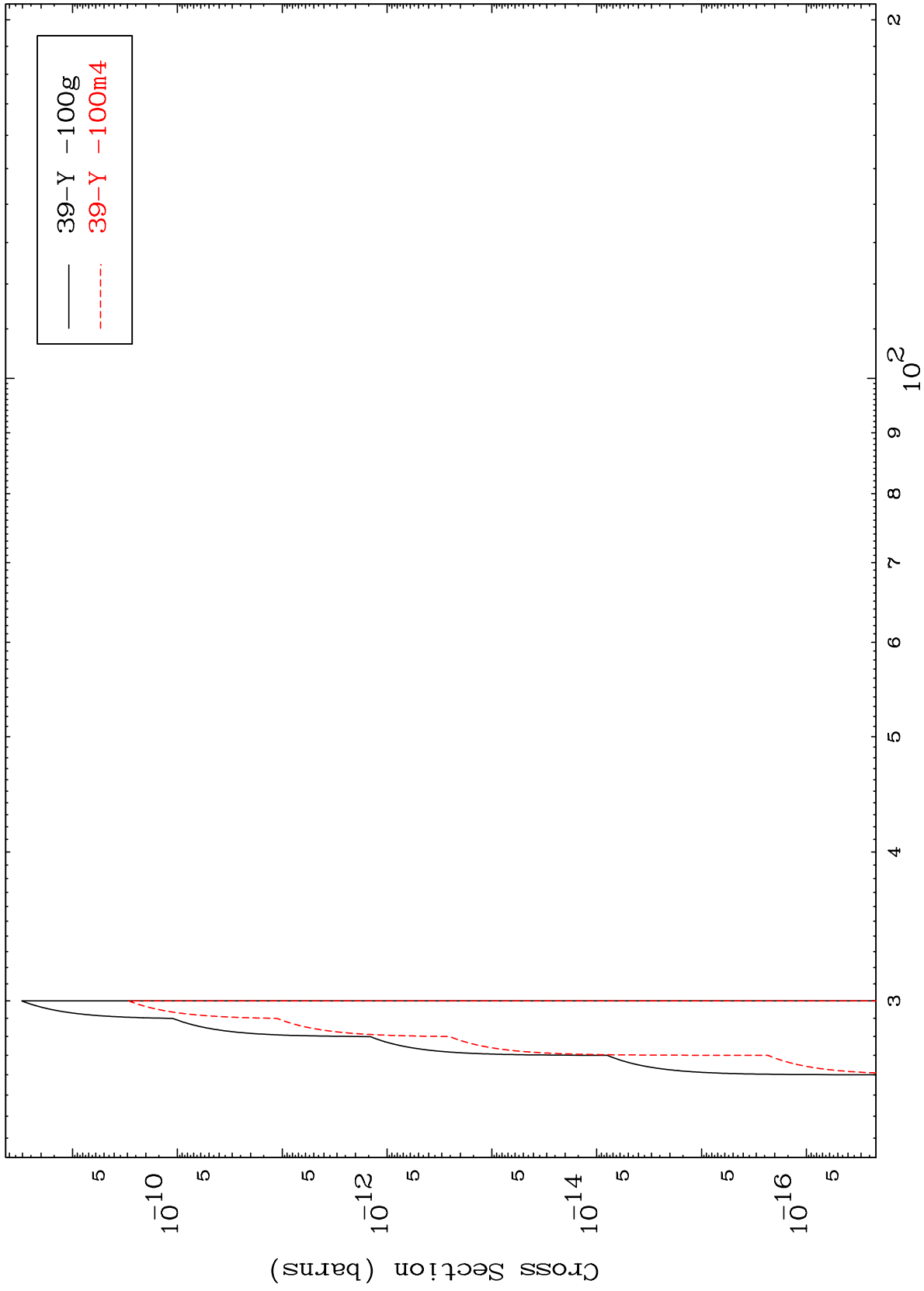


137

Incident Energy (MeV)

41-Nb-103

Radionuclide Production Cross Section

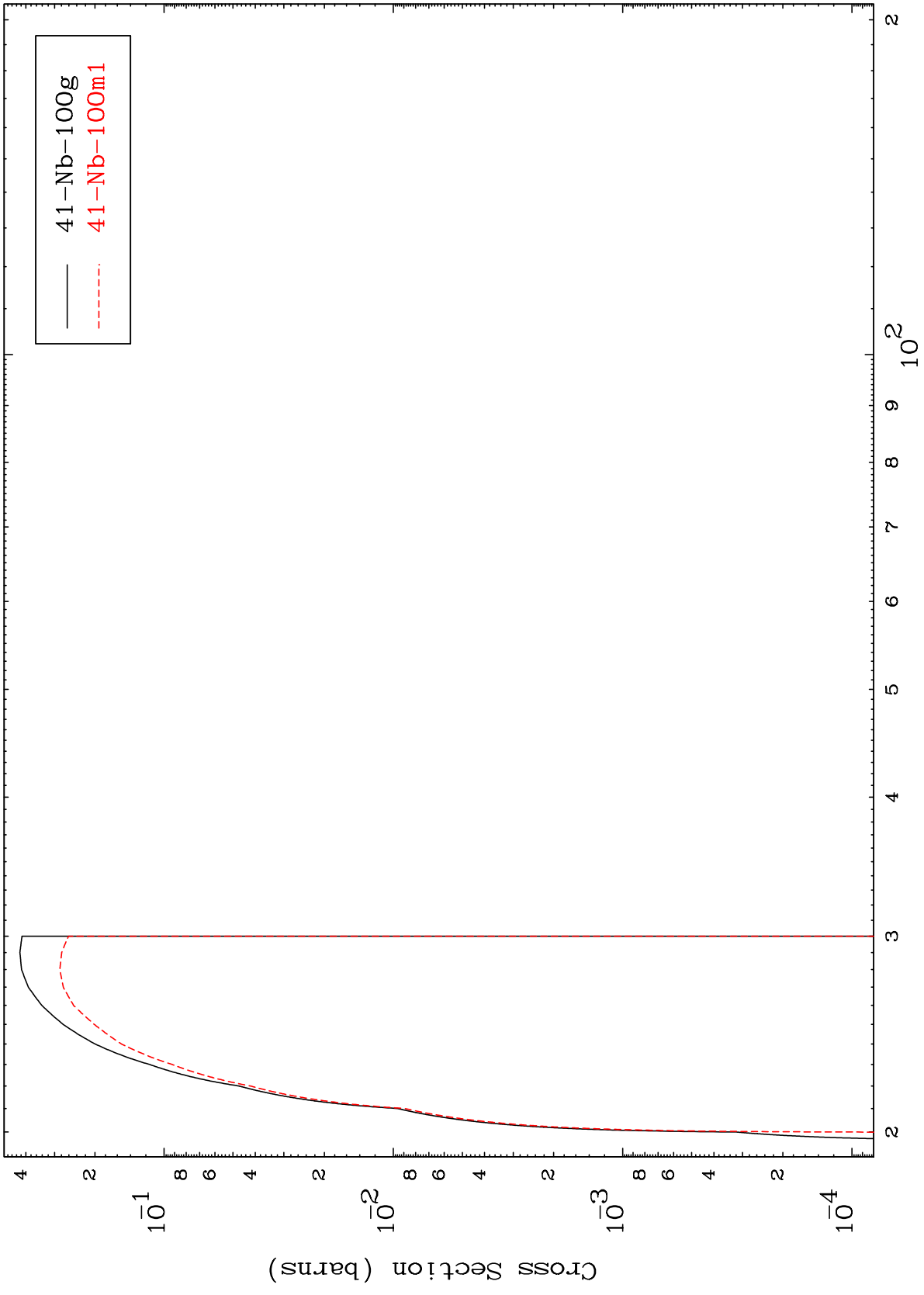


MAT 4155

(n,4n)

41-Nb-103

Radionuclide Production Cross Section



41-Nb-100g  
41-Nb-100m1

139

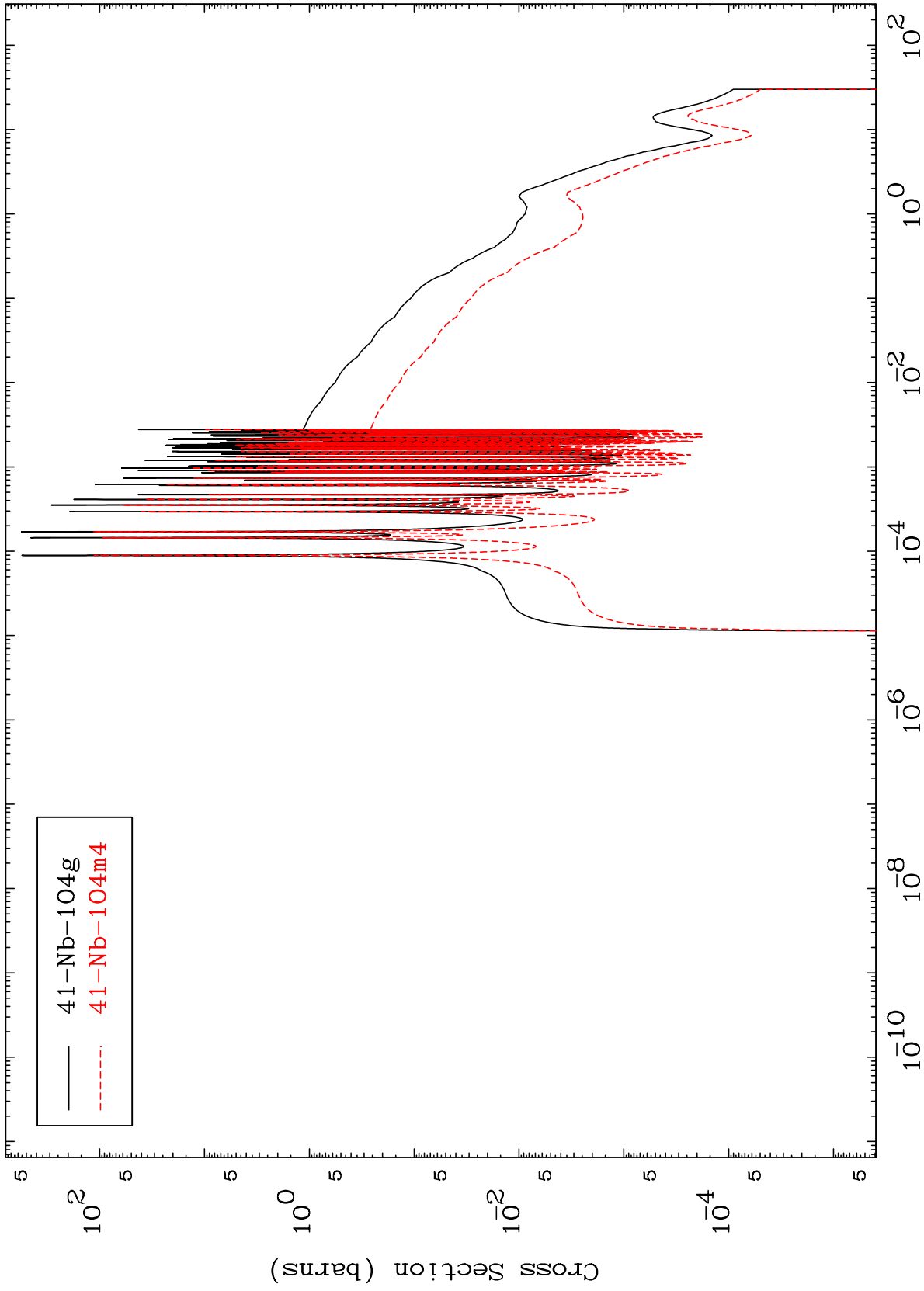
Incident Energy (MeV)

41-Nb-103

MAT 4155

41-Nb-103

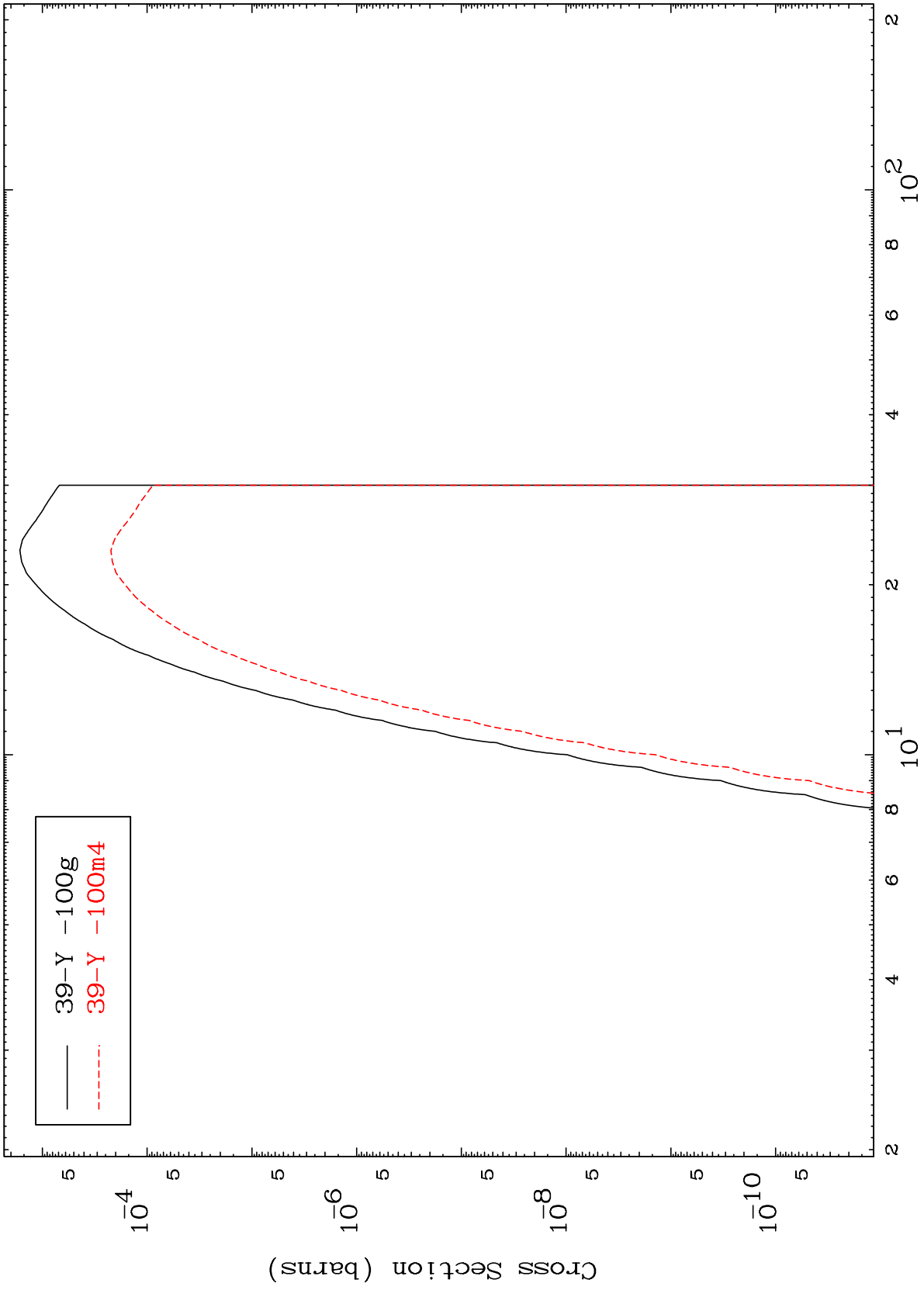
(n,γ)  
Radionuclide Production Cross Section



MAT 4155

41-Nb-103

(n,α)  
Radionuclide Production Cross Section



— 39-Y -100g  
- - - 39-Y -100m4

141

41-Nb-103