

Program EVALPLOT
(Version 2021-1)

by

Dermott E. Cullen
(Present Contact Information)

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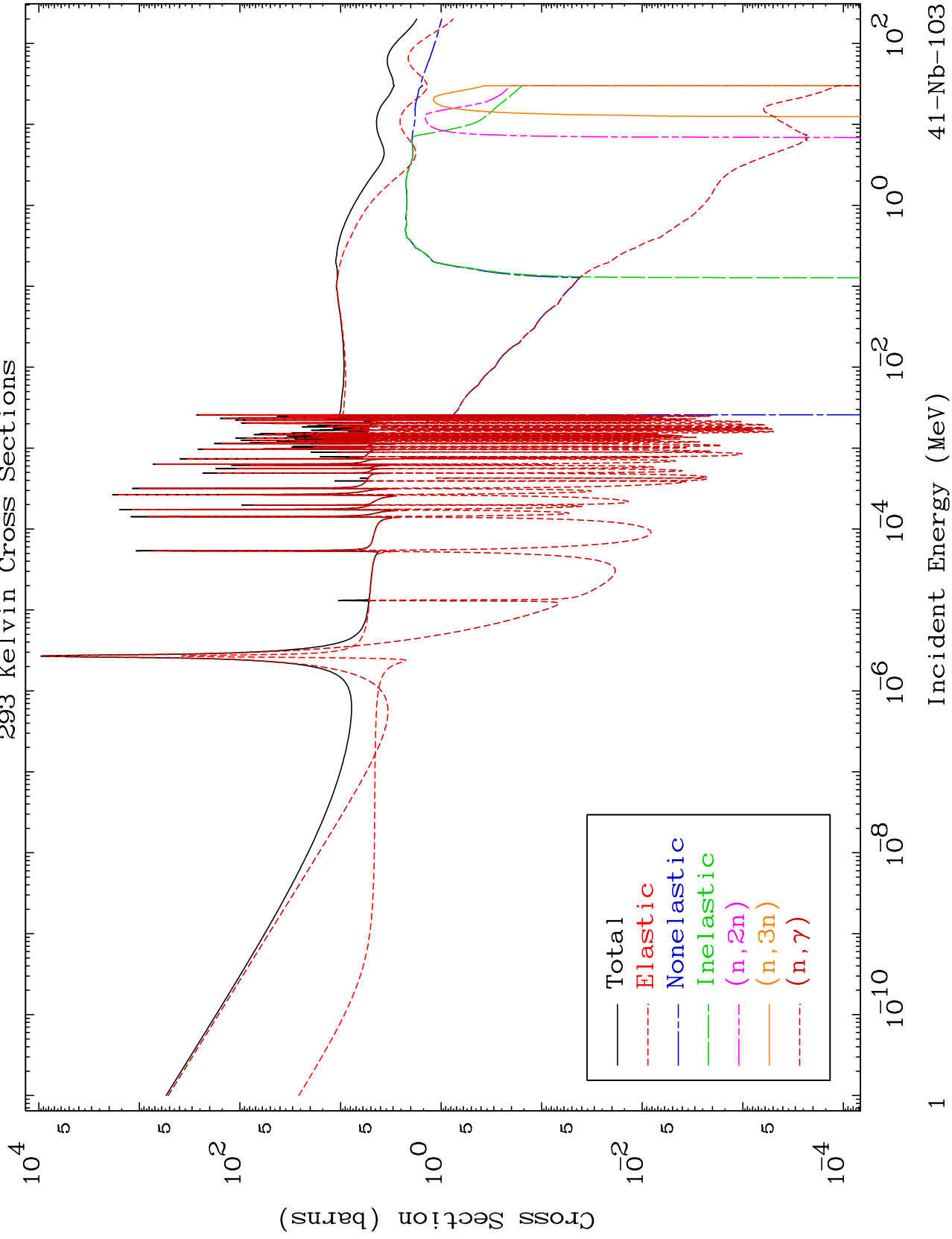
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 4155

Neutron Major
293 Kelvin Cross Sections

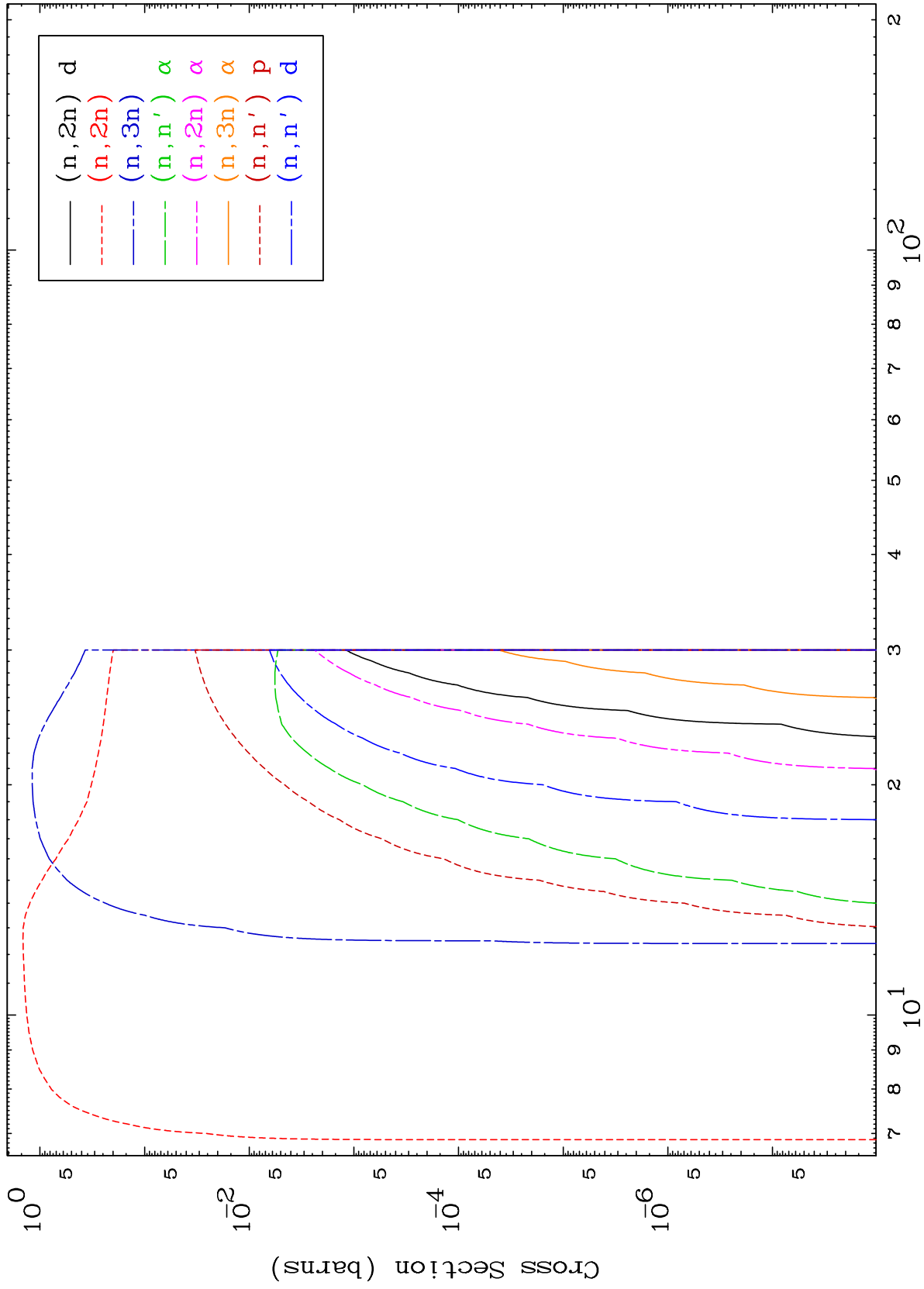
41-Nb-103



MAT 4155

Neutron Absorption
293 Kelvin Cross Sections

41-Nb-103



2

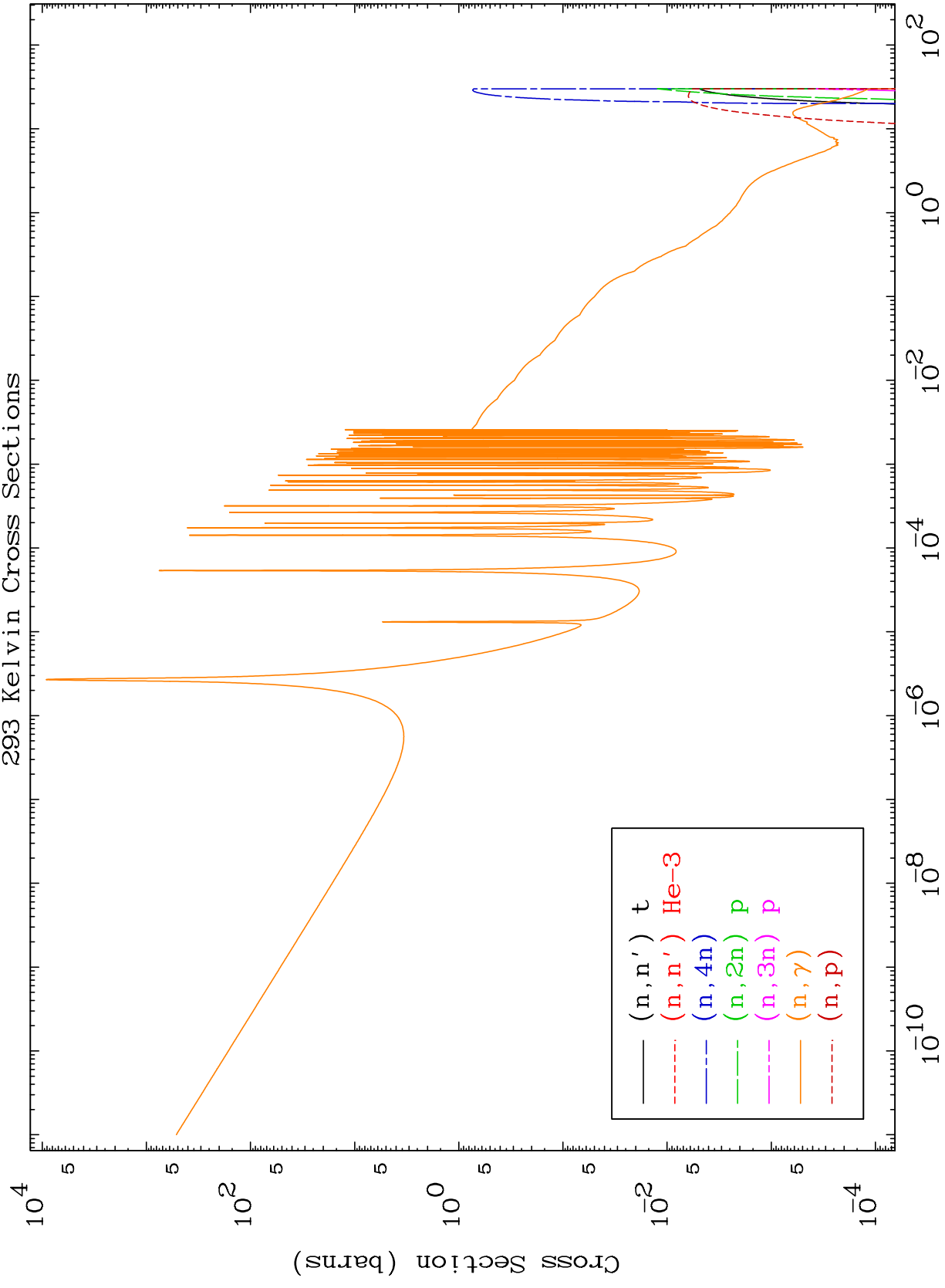
Incident Energy (MeV)

41-Nb-103

MAT 4155

Neutron Absorption
293 Kelvin Cross Sections

41-Nb-103



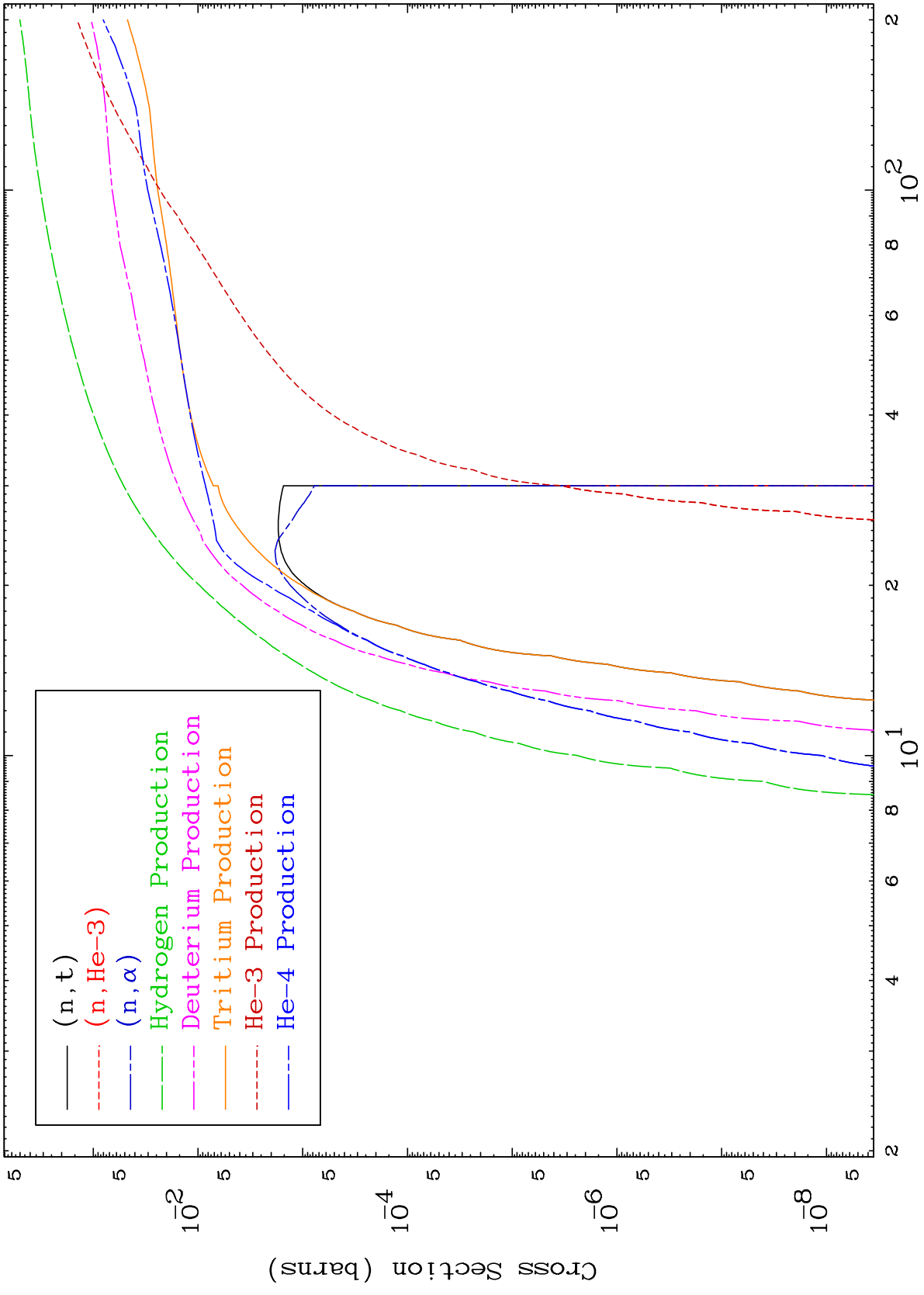
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41-Nb-103

MAT 4155

Neutron Absorption
293 Kelvin Cross Sections

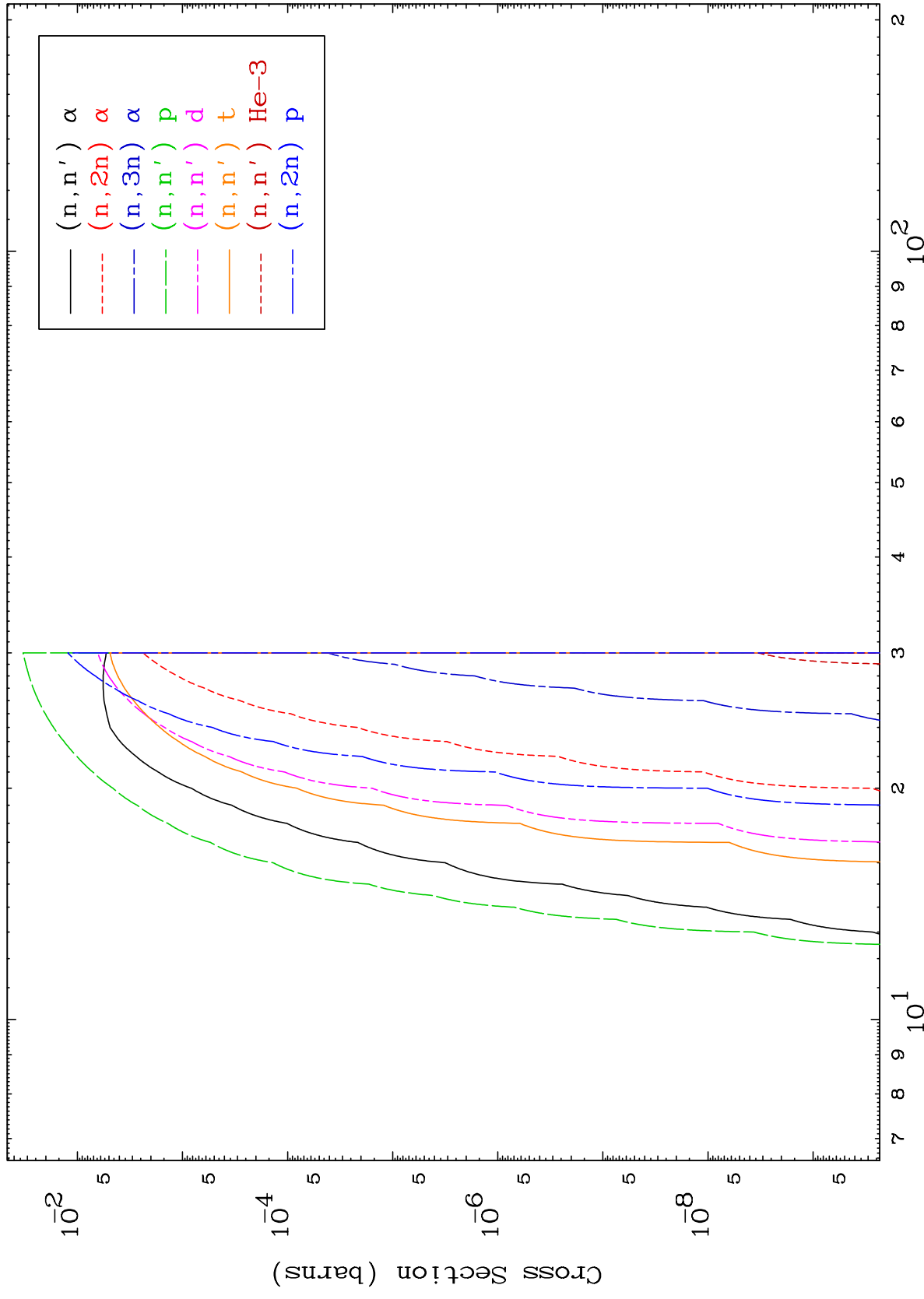
41-Nb-103



MAT 4155

Charged Particle
293 Kelvin Cross Sections

41-Nb-103



5

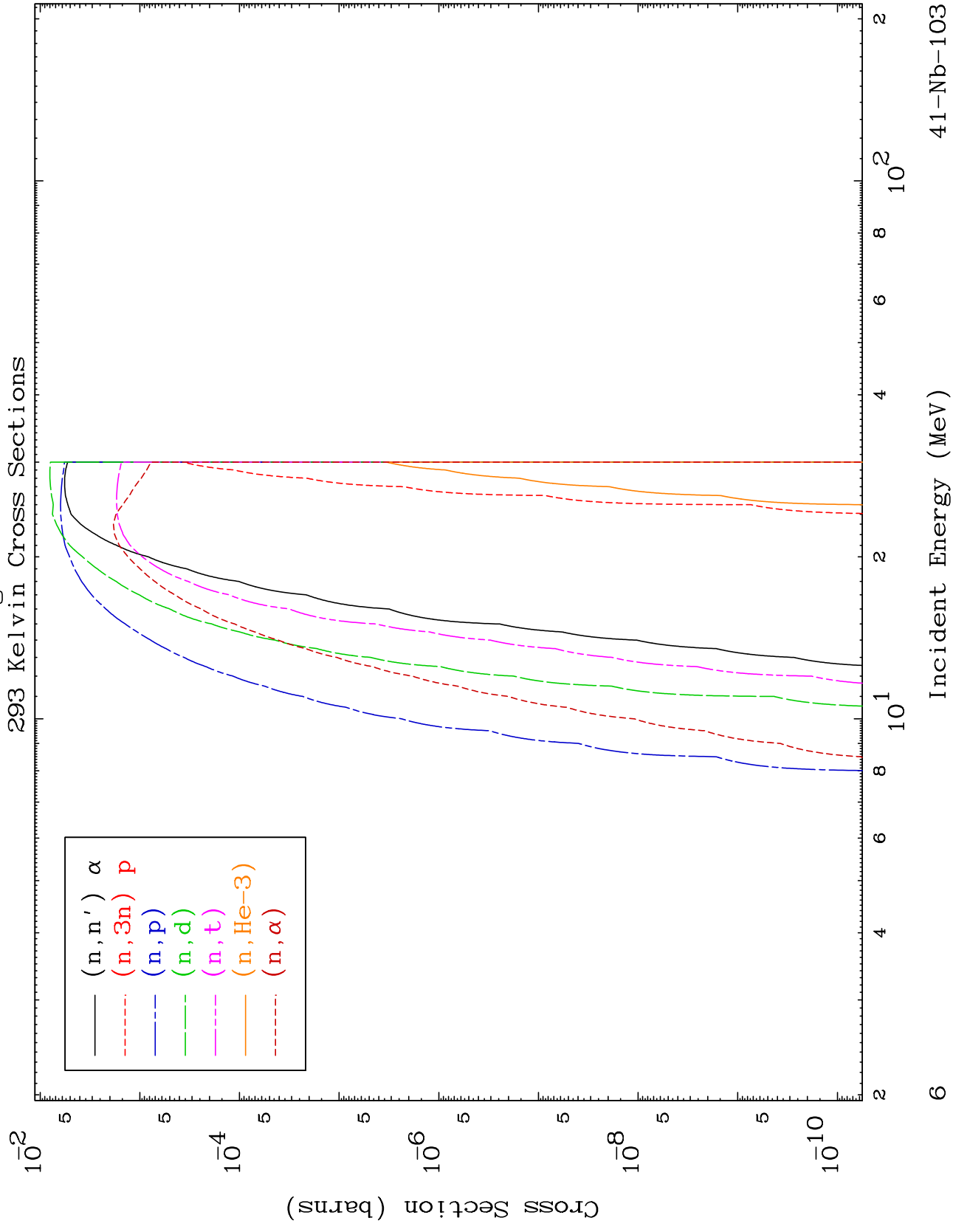
Incident Energy (MeV)

41-Nb-103

MAT 4155

Charged Particle
293 Kelvin Cross Sections

41-Nb-103



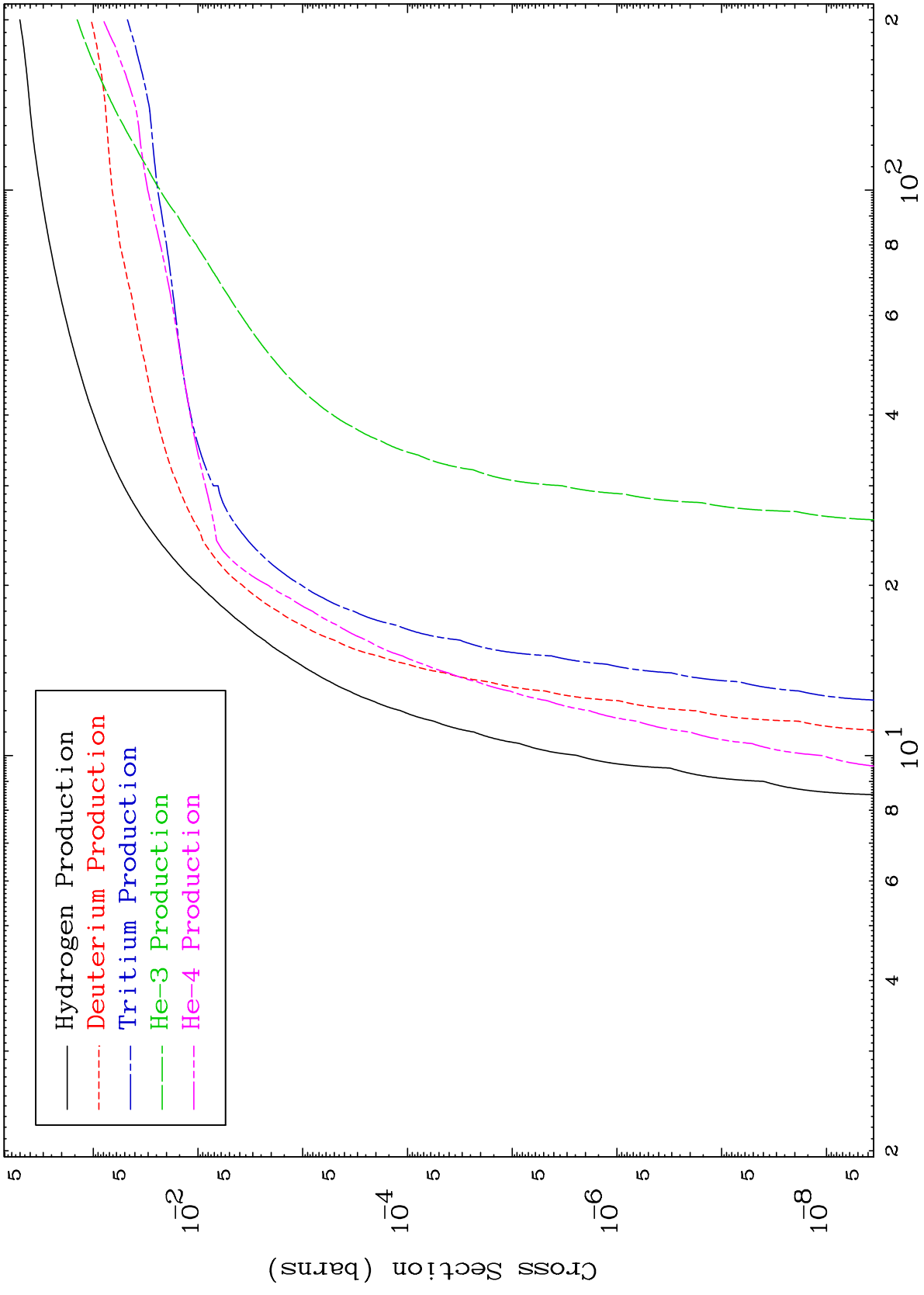
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41-Nb-103

MAT 4155

Particle Production
293 Kelvin Cross Sections

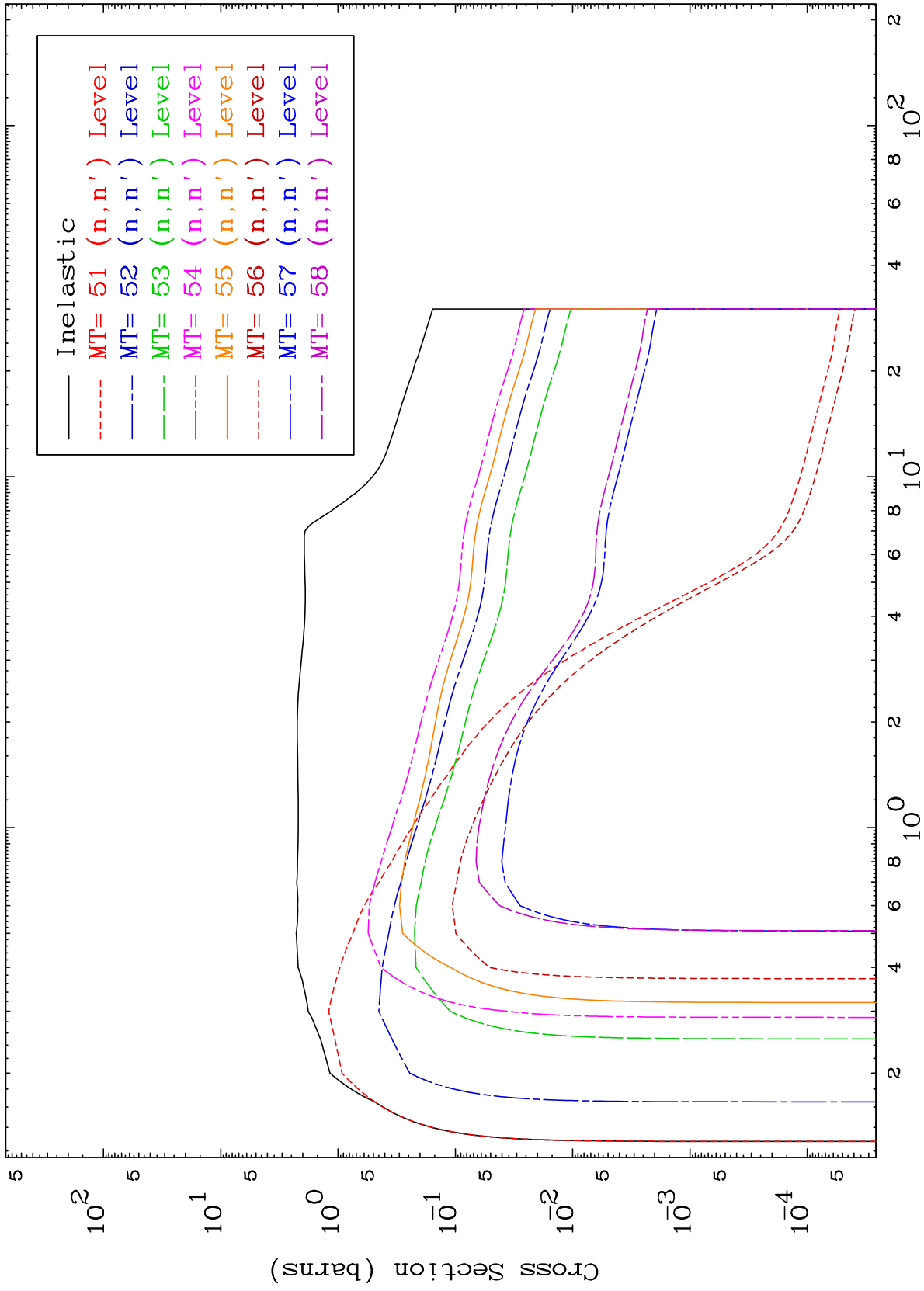
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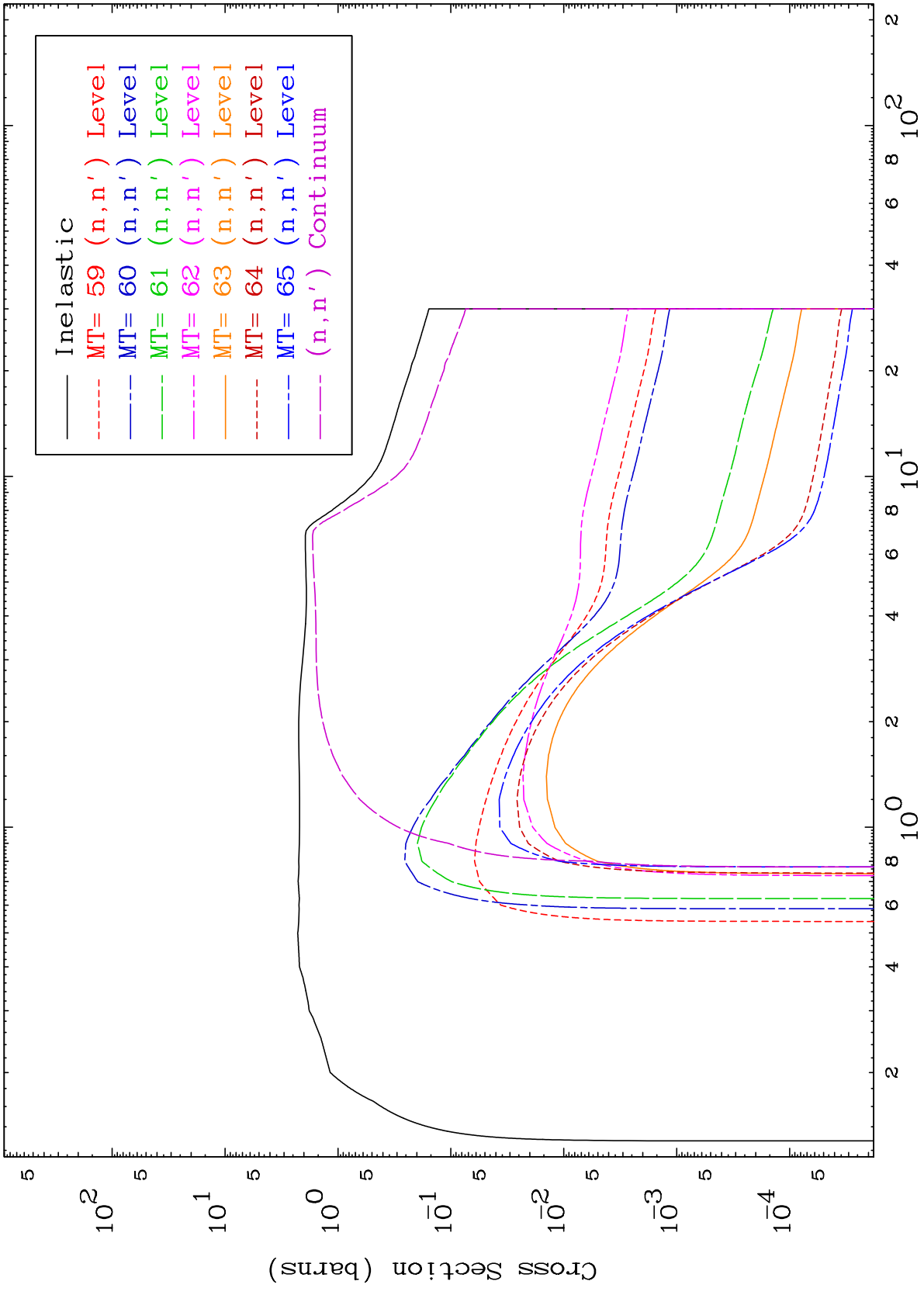


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Incident Energy (MeV)

41-Nb-103

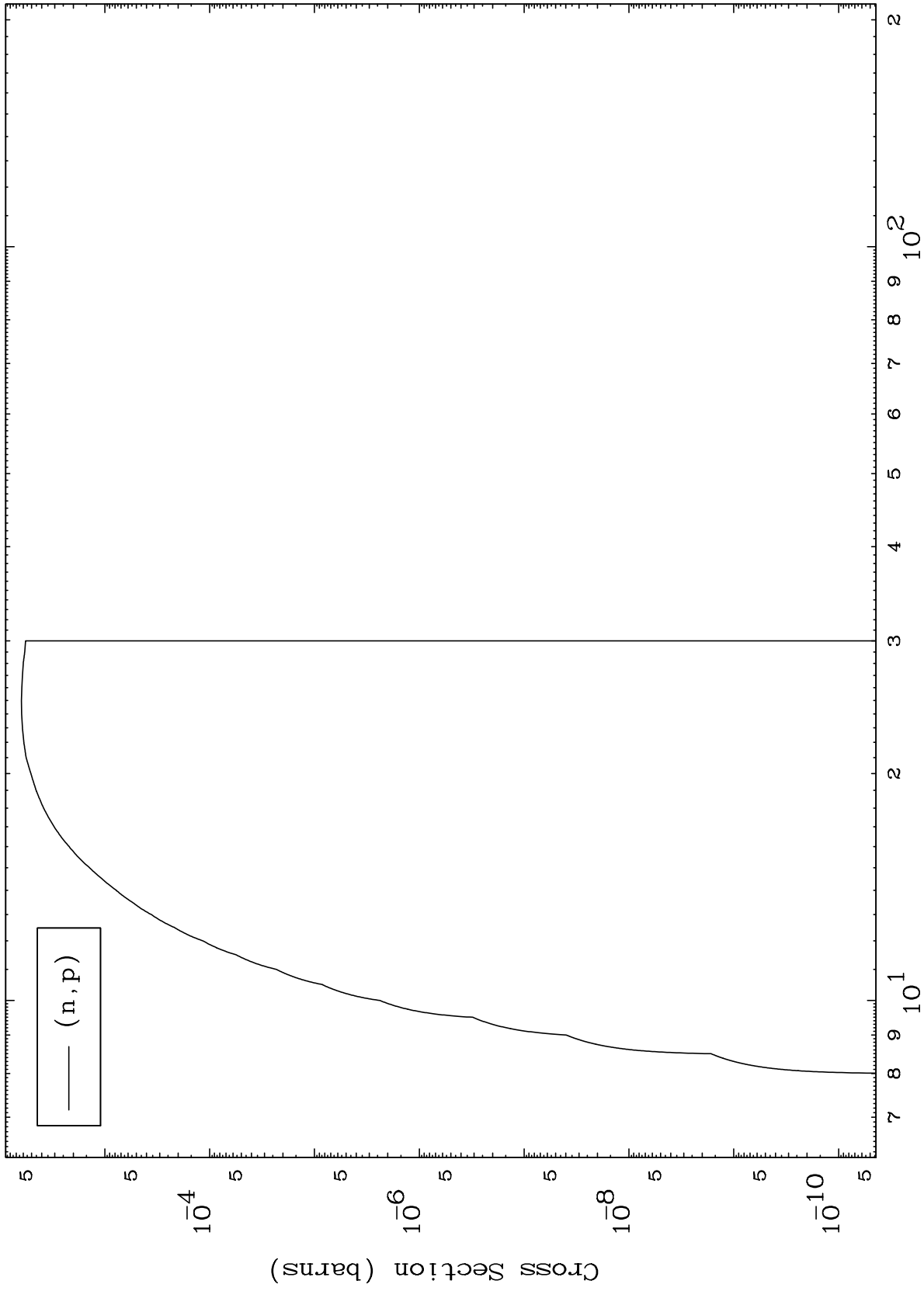




MAT 4155

(n,p) Levels
293 Kelvin Cross Sections

41-Nb-103



10

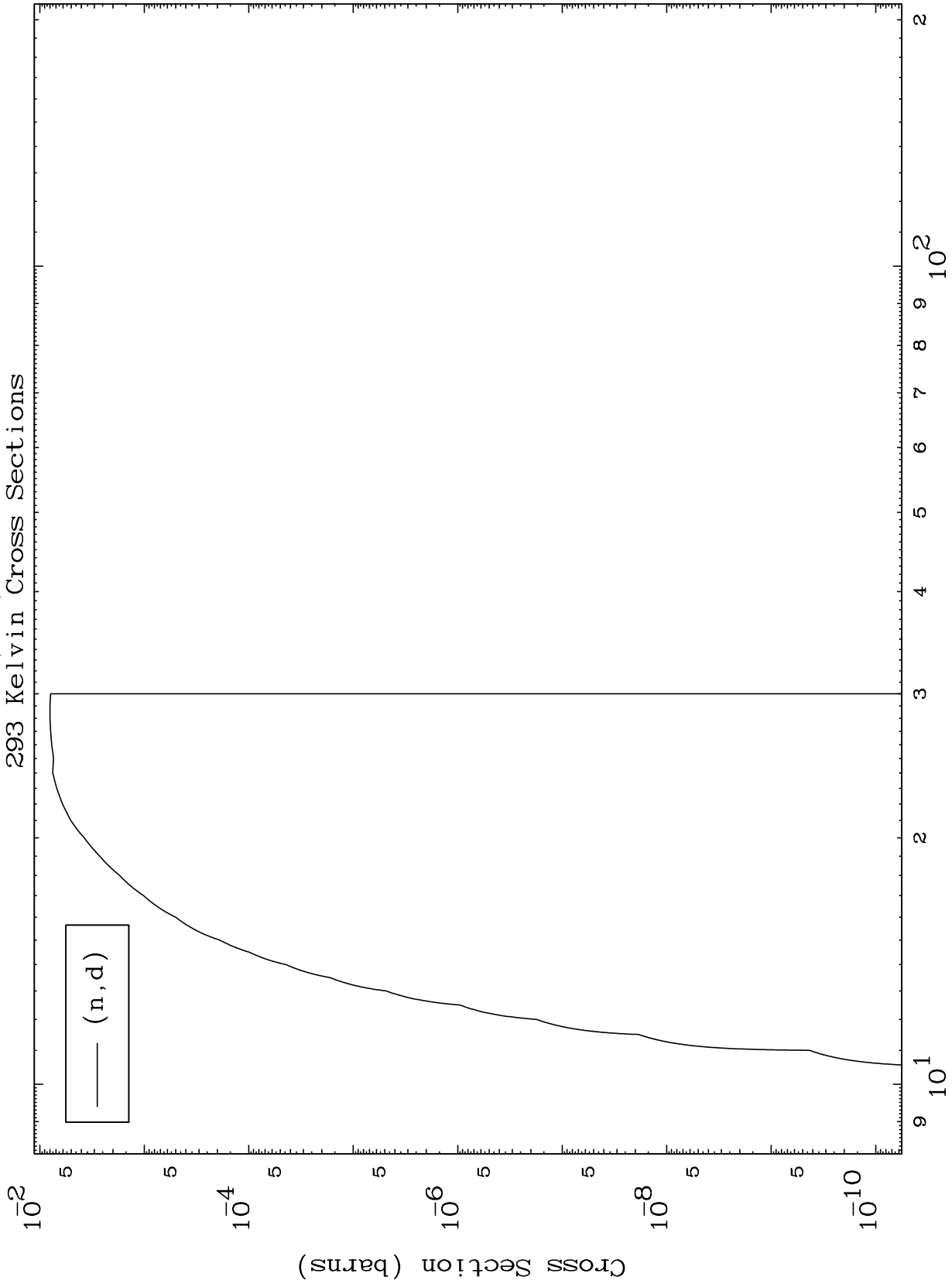
Incident Energy (MeV)

41-Nb-103

MAT 4155

(n,d) Levels
293 Kelvin Cross Sections

41-Nb-103



11

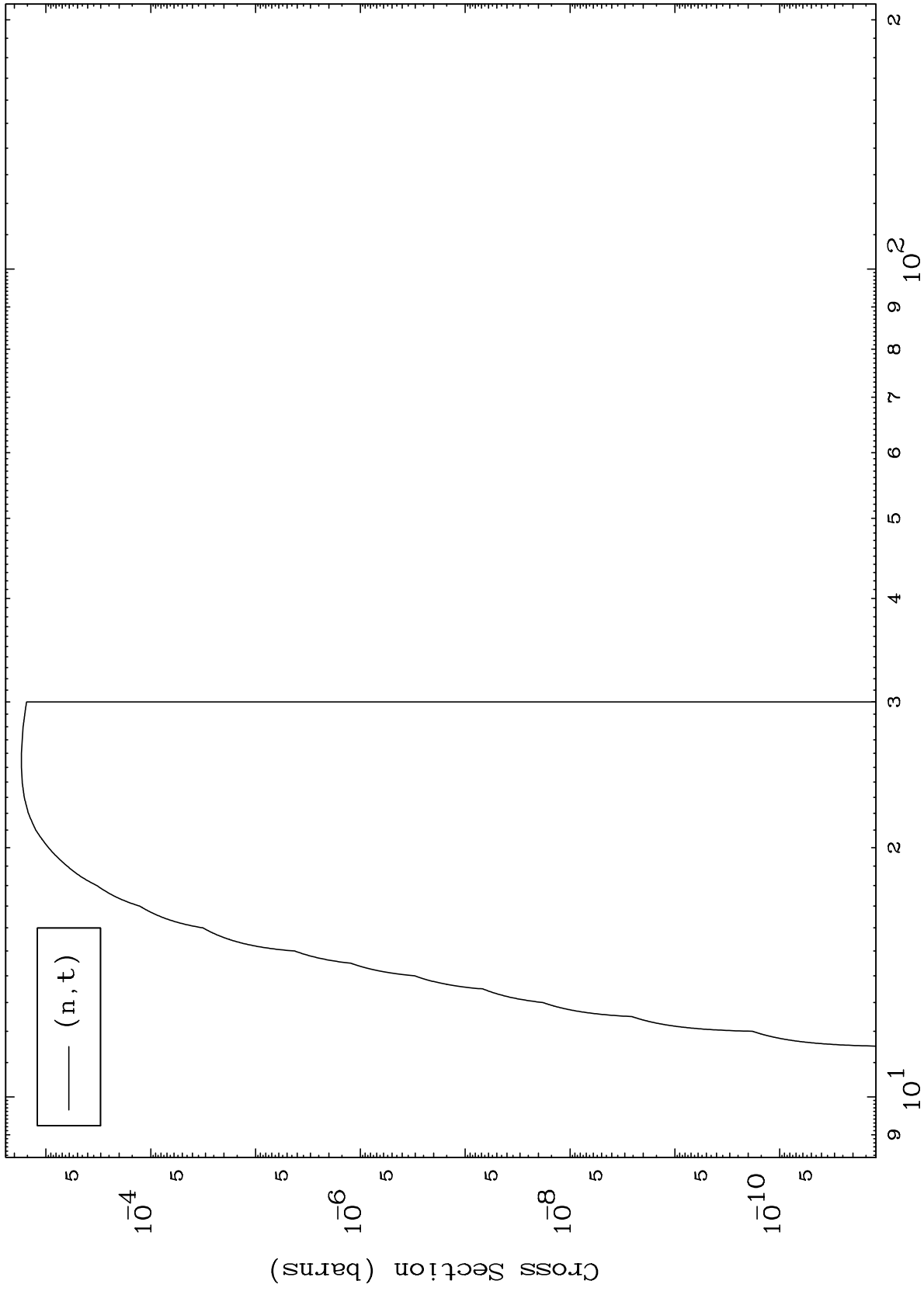
Incident Energy (MeV)

41-Nb-103

MAT 4155

(n,t) Levels
293 Kelvin Cross Sections

41-Nb-103



12

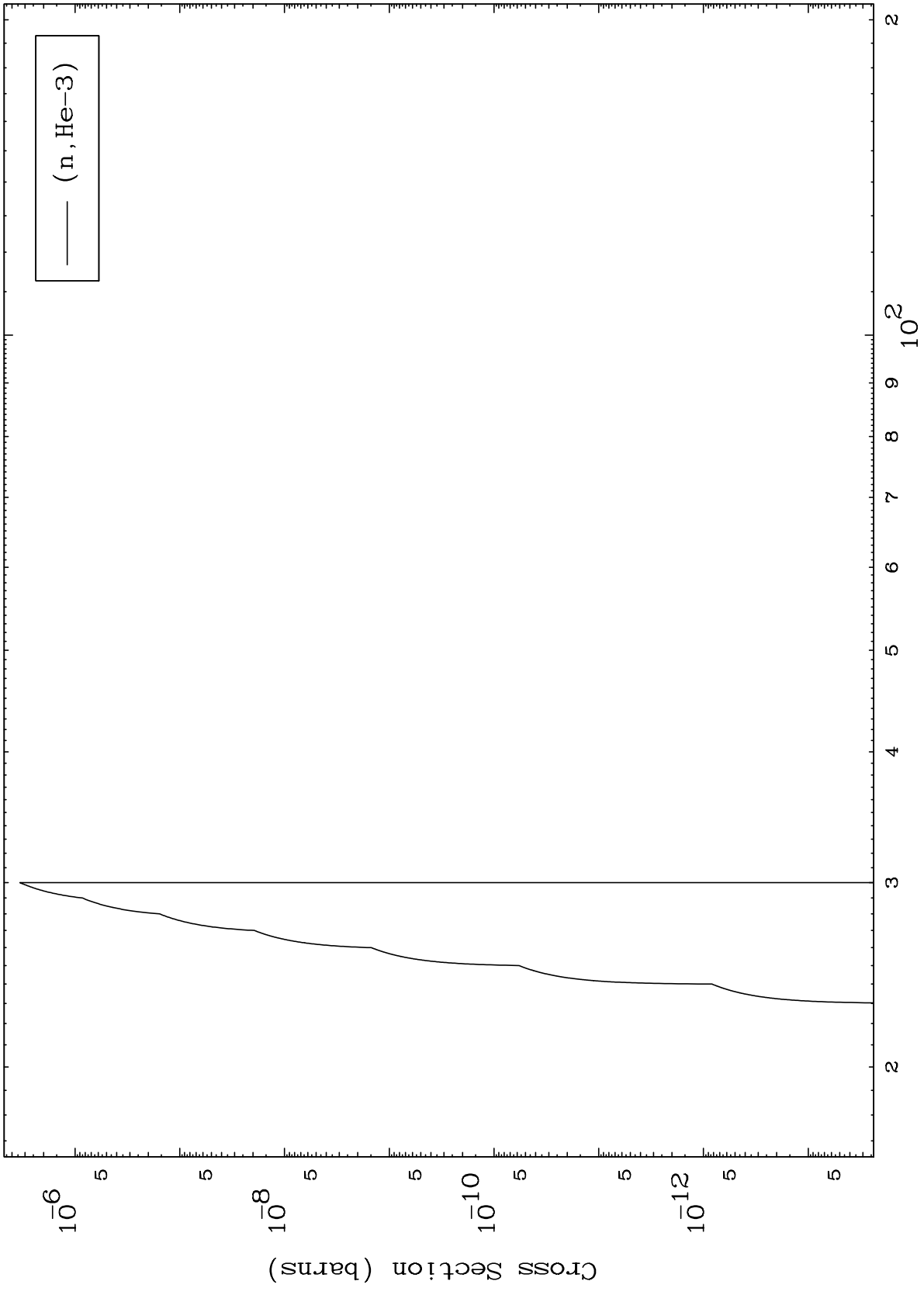
Incident Energy (MeV)

41-Nb-103

MAT 4155

(n,He3) Levels
293 Kelvin Cross Sections

41-Nb-103



13

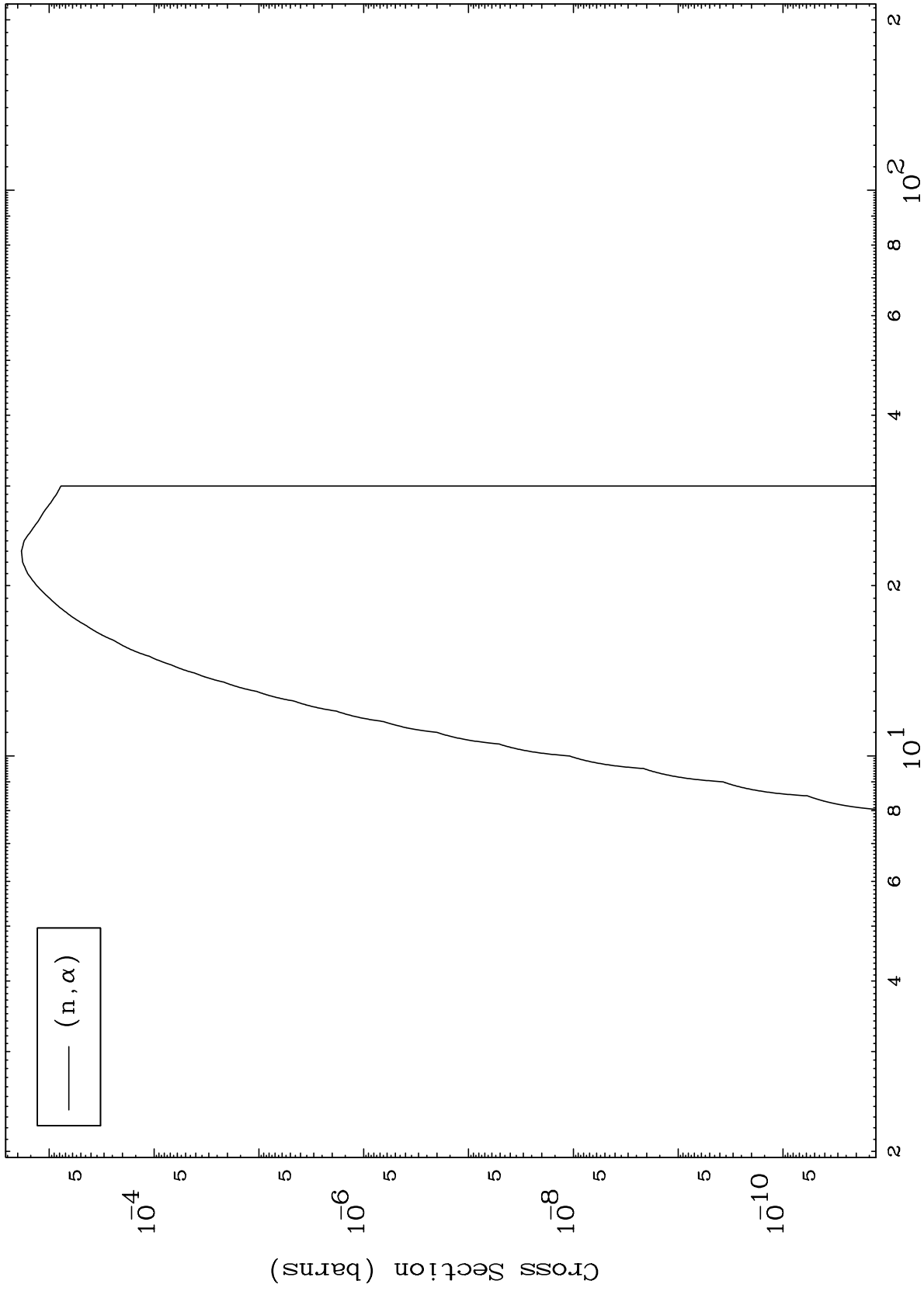
Incident Energy (MeV)

41-Nb-103

MAT 4155

(n,α) Levels
293 Kelvin Cross Sections

41-Nb-103



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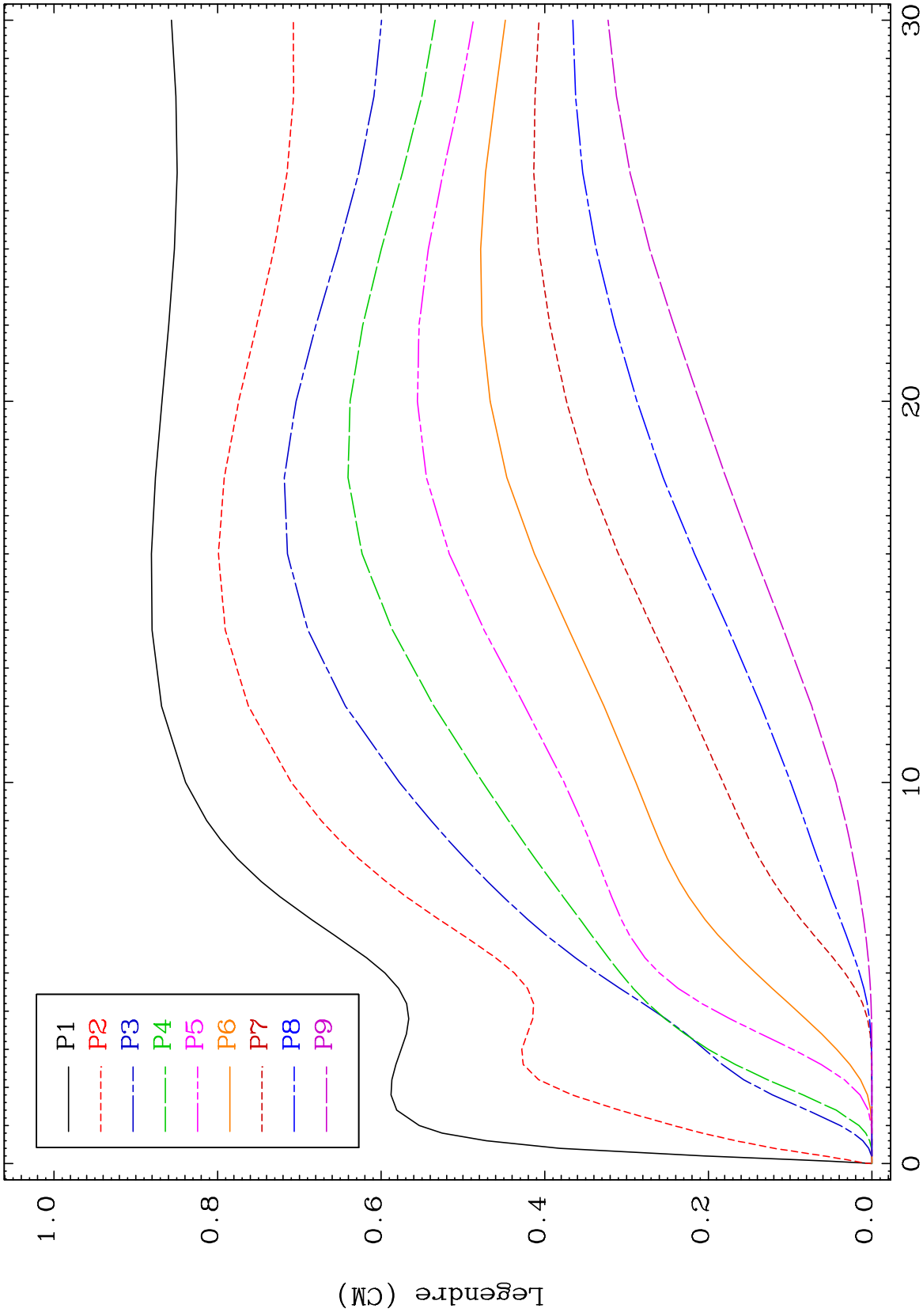
Incident Energy (MeV)

41-Nb-103

MAT 4155

Elastic Legendre Coefficients

41-Nb-103



15

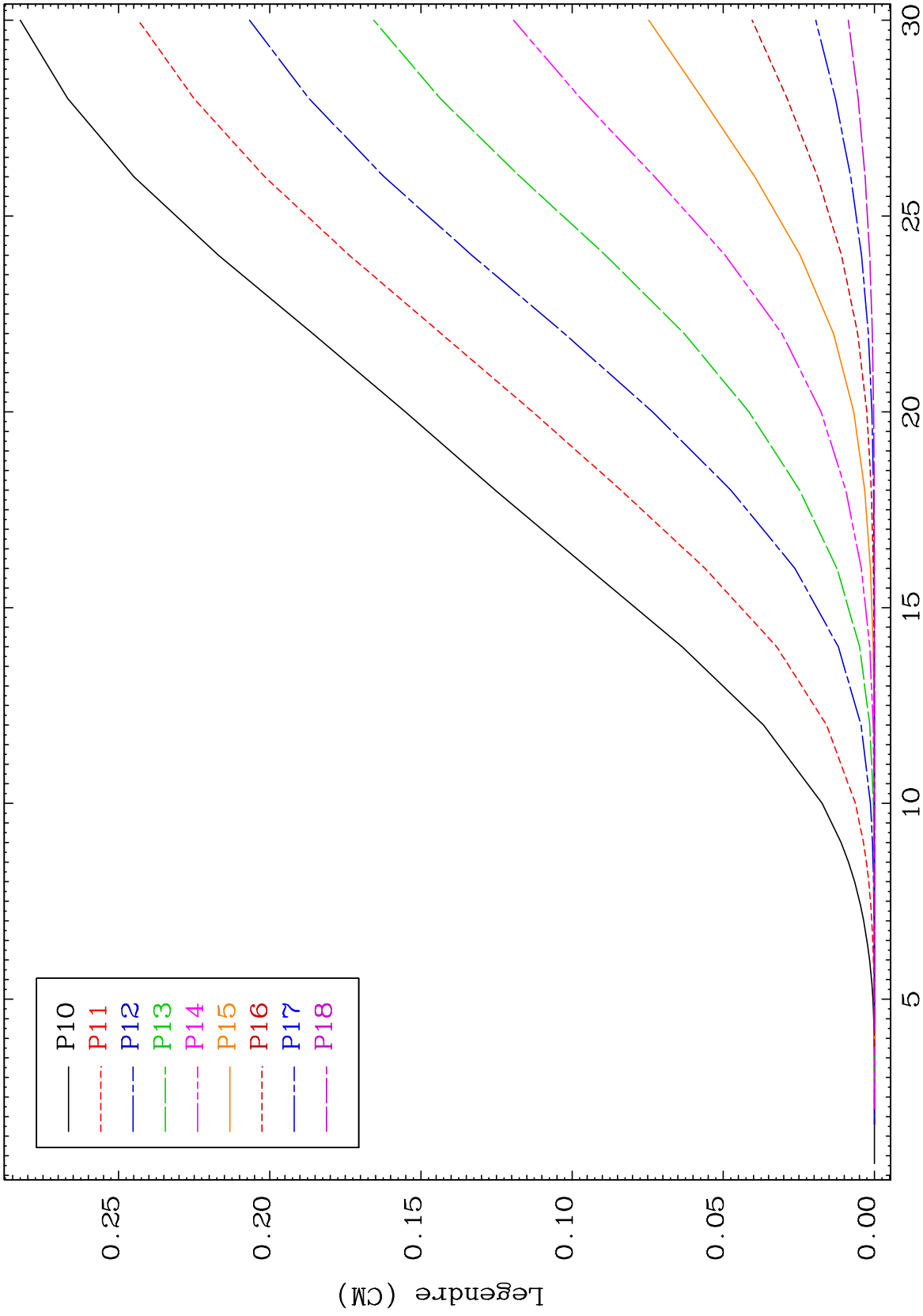
Incident Energy (MeV)

41-Nb-103

MAT 4155

Elastic Legendre Coefficients

41-Nb-103



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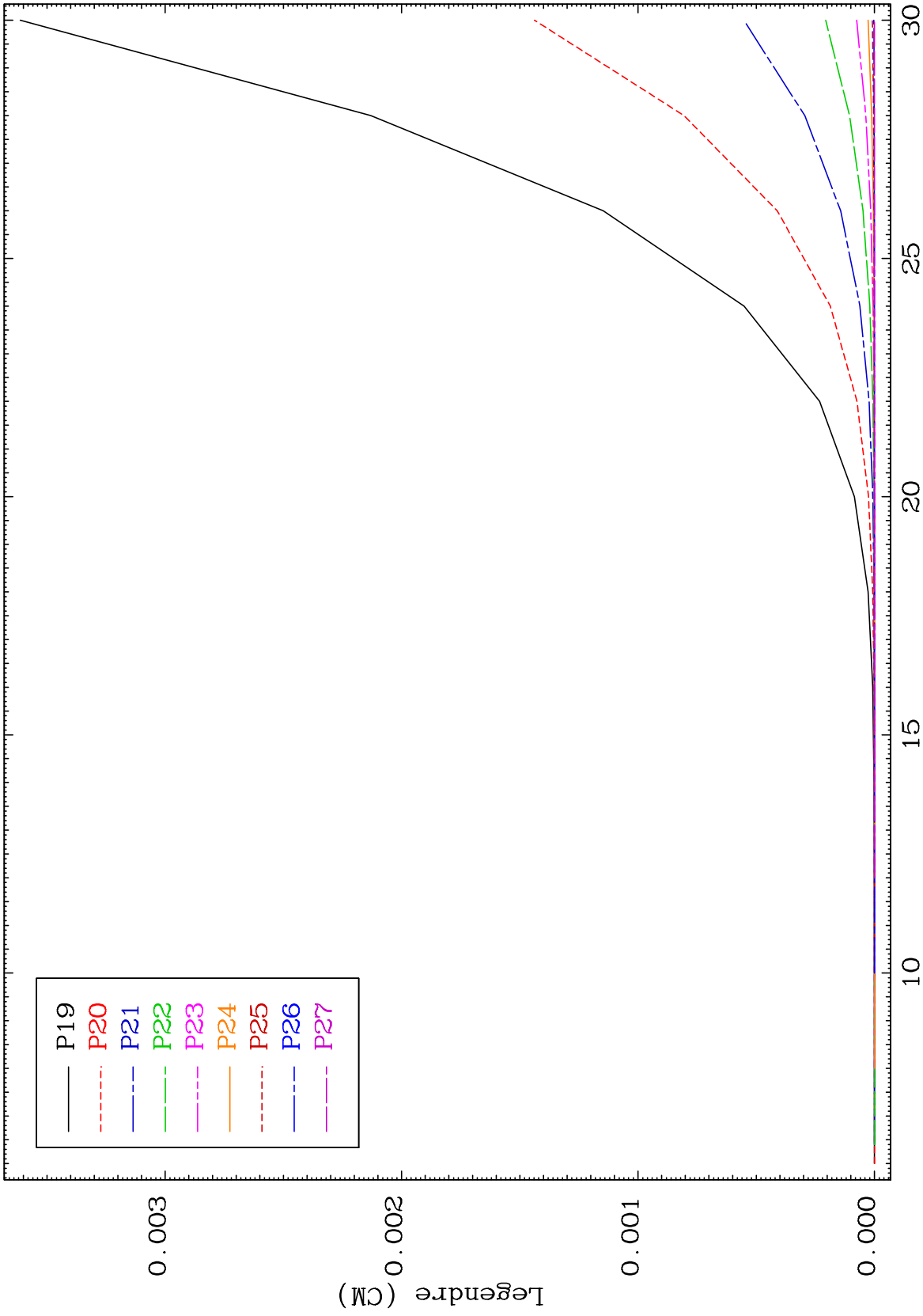
Incident Energy (MeV)

41-Nb-103

MAT 4155

Elastic
Legendre Coefficients

41-Nb-103



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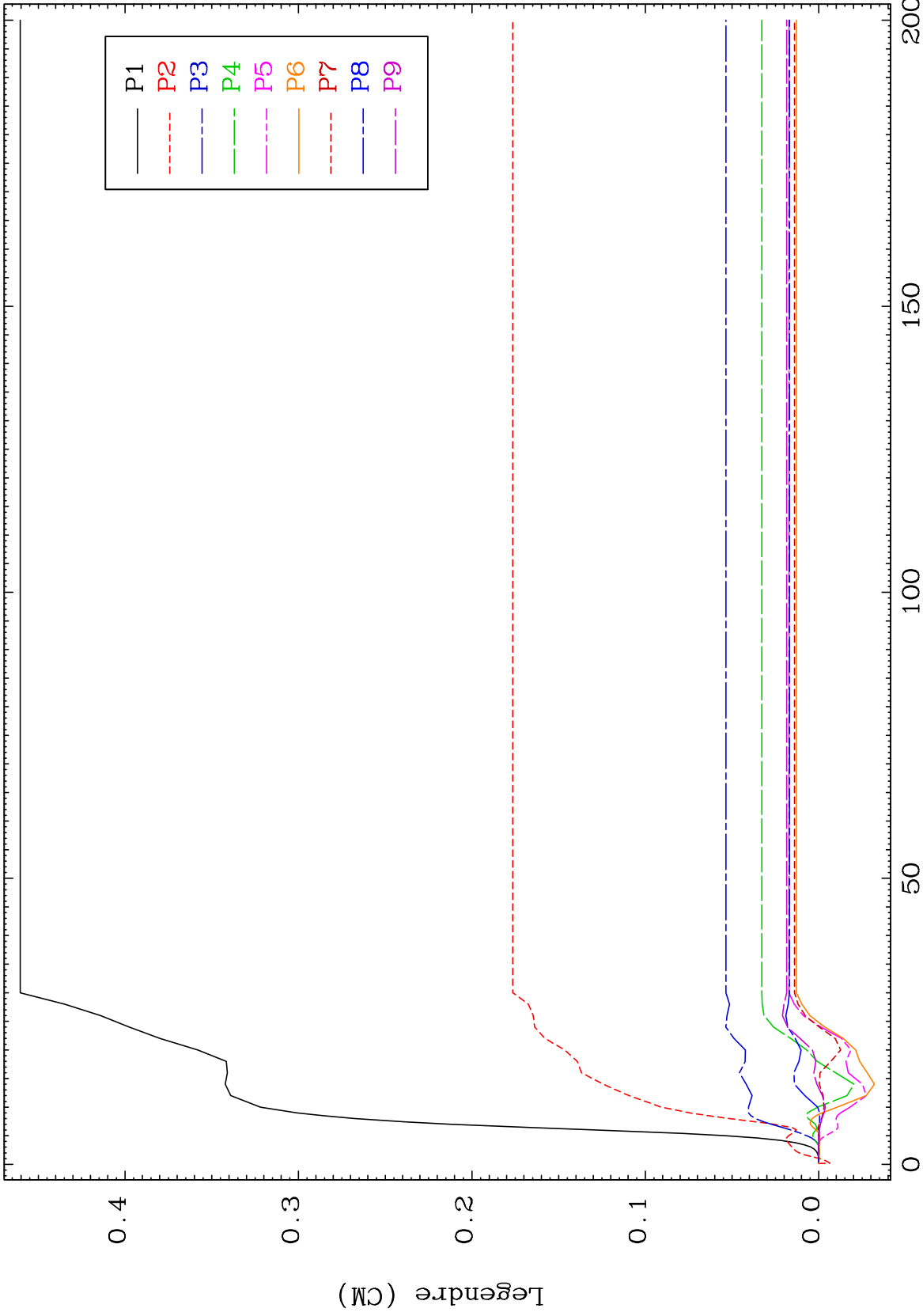
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



19

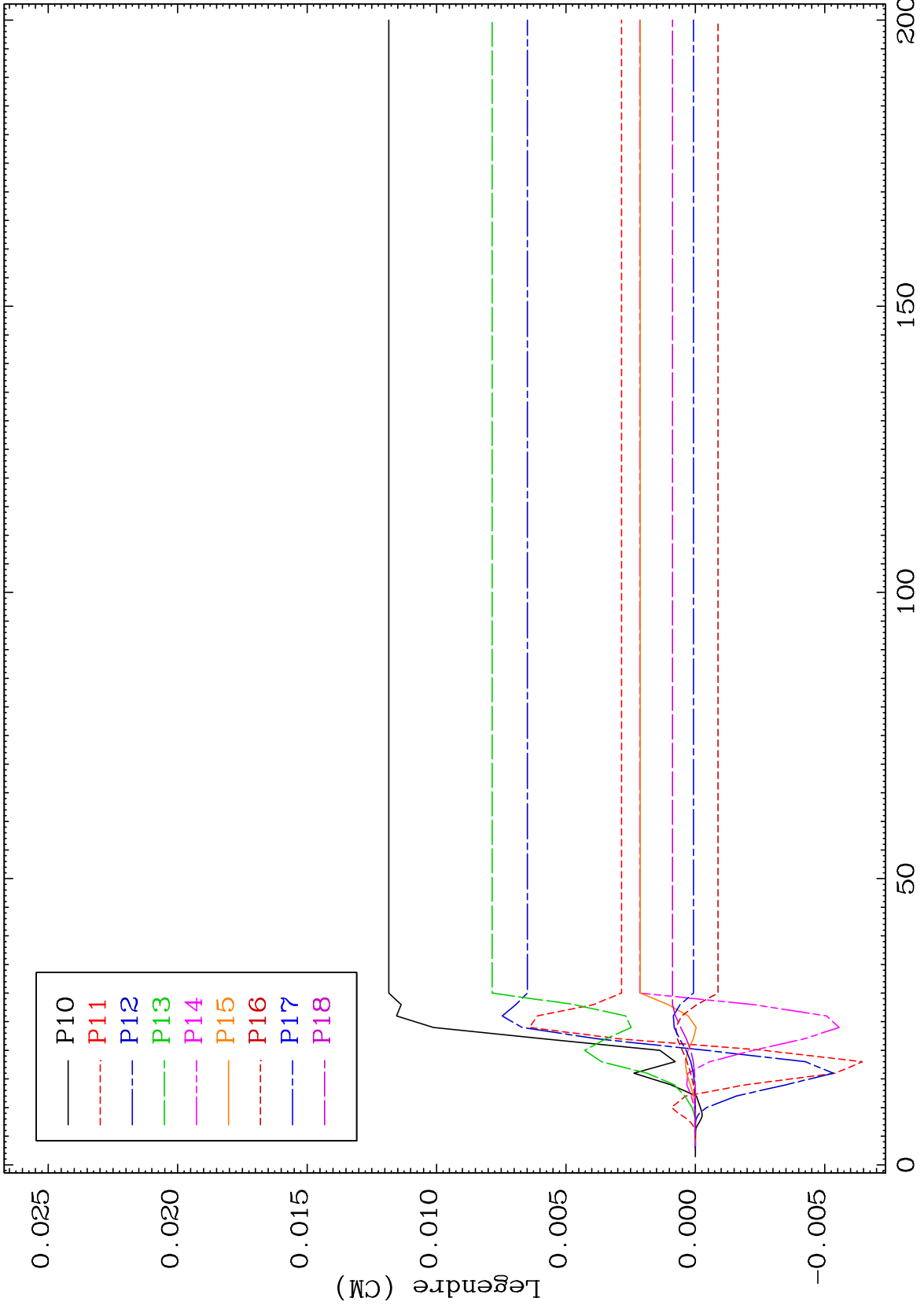
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



0

50

100

150

200

41-Nb-103

Incident Energy (MeV)

0.025

0.020

0.015

Legendre (cm)

0.005

0.000

-0.005

P10

P11

P12

P13

P14

P15

P16

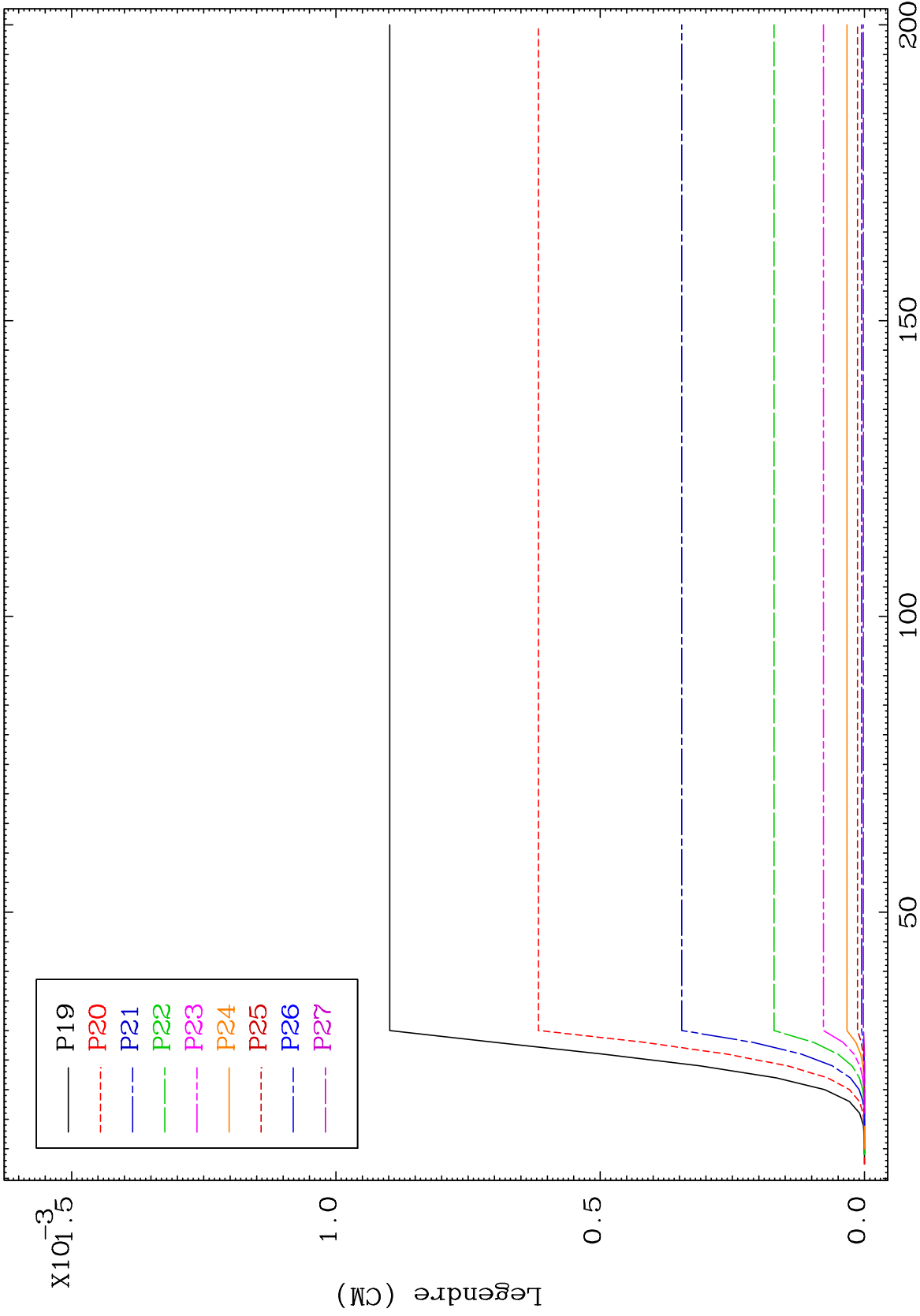
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MAT 4155

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

41-Nb-103



21

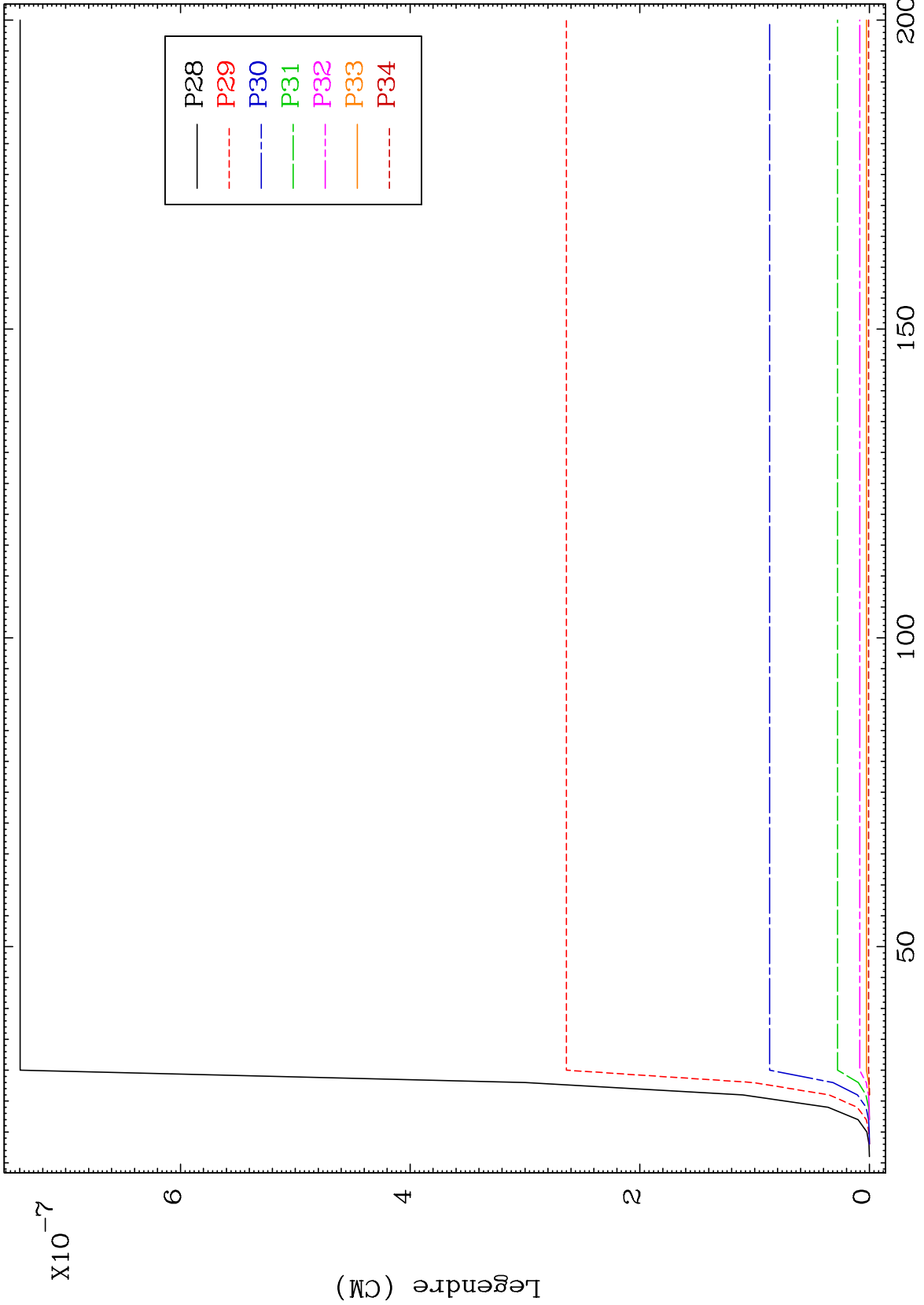
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



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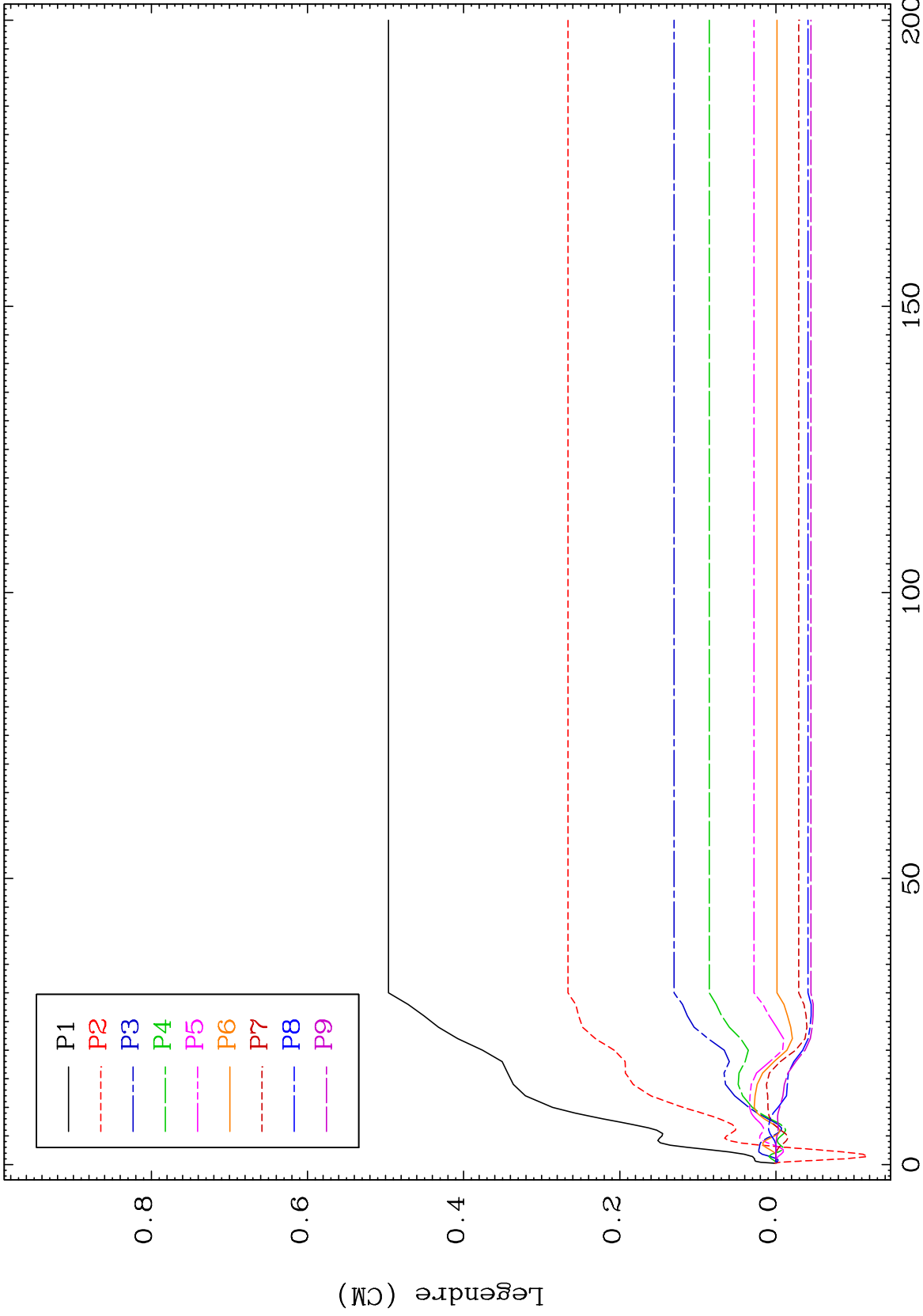
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



23

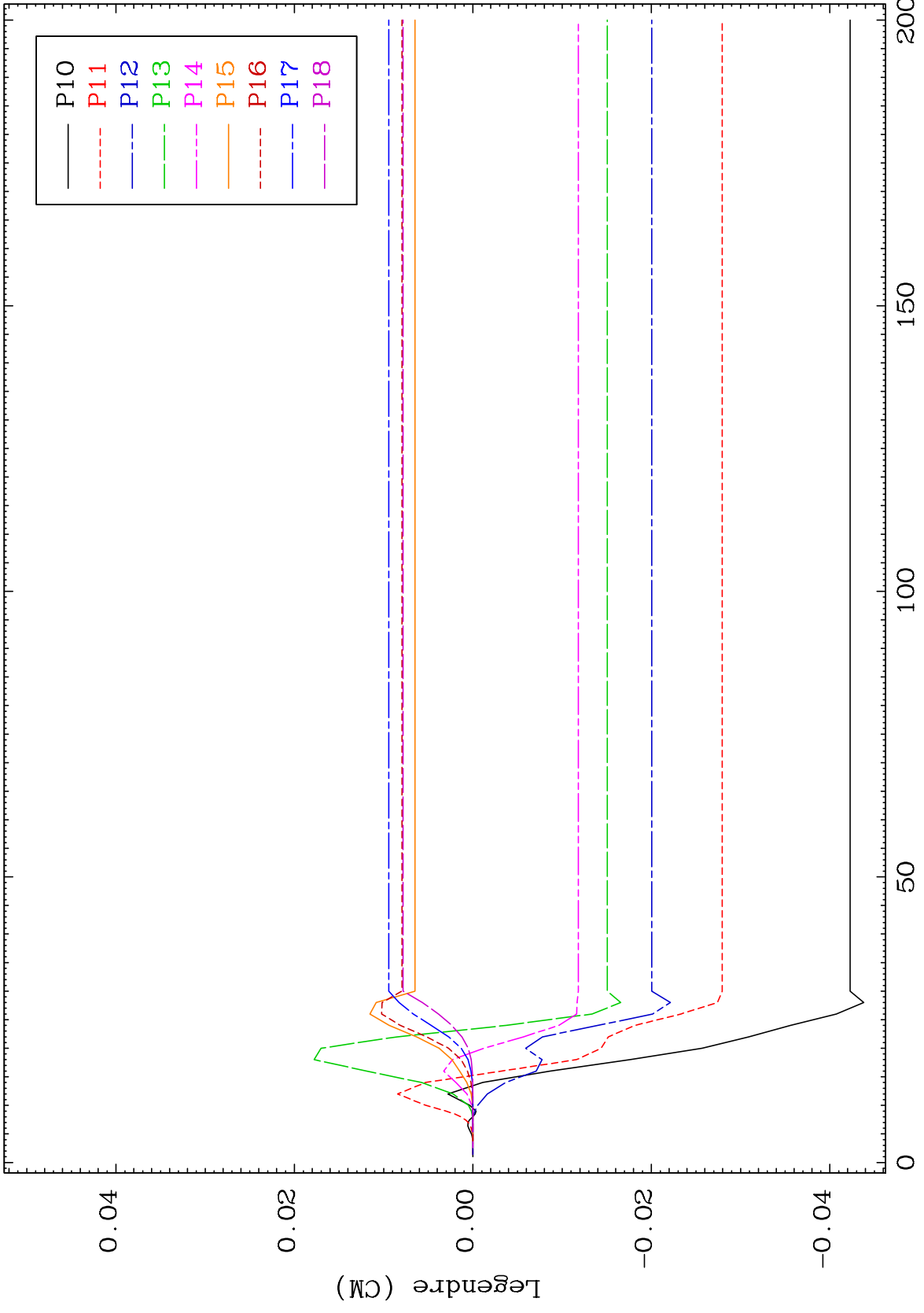
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



24

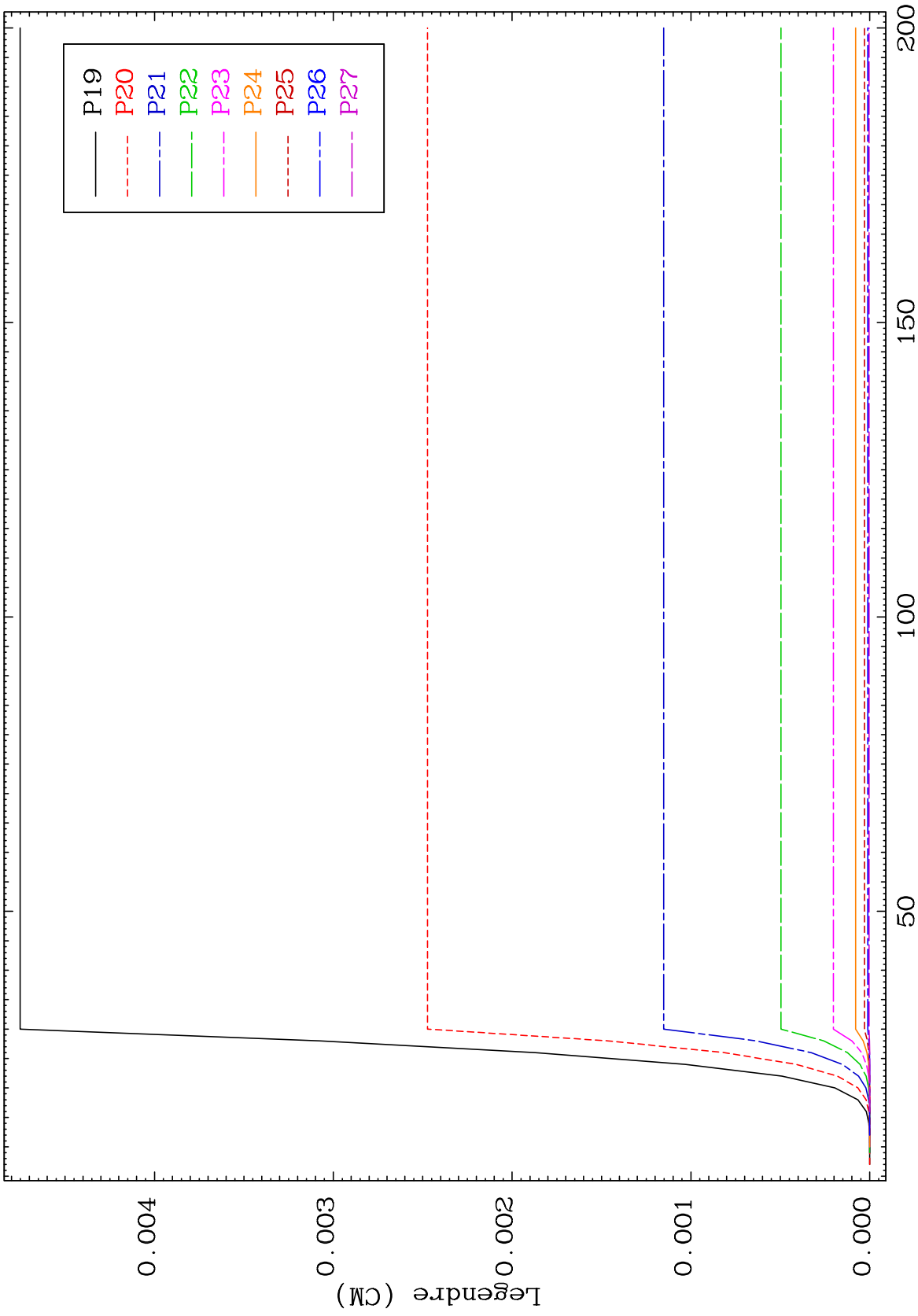
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



25

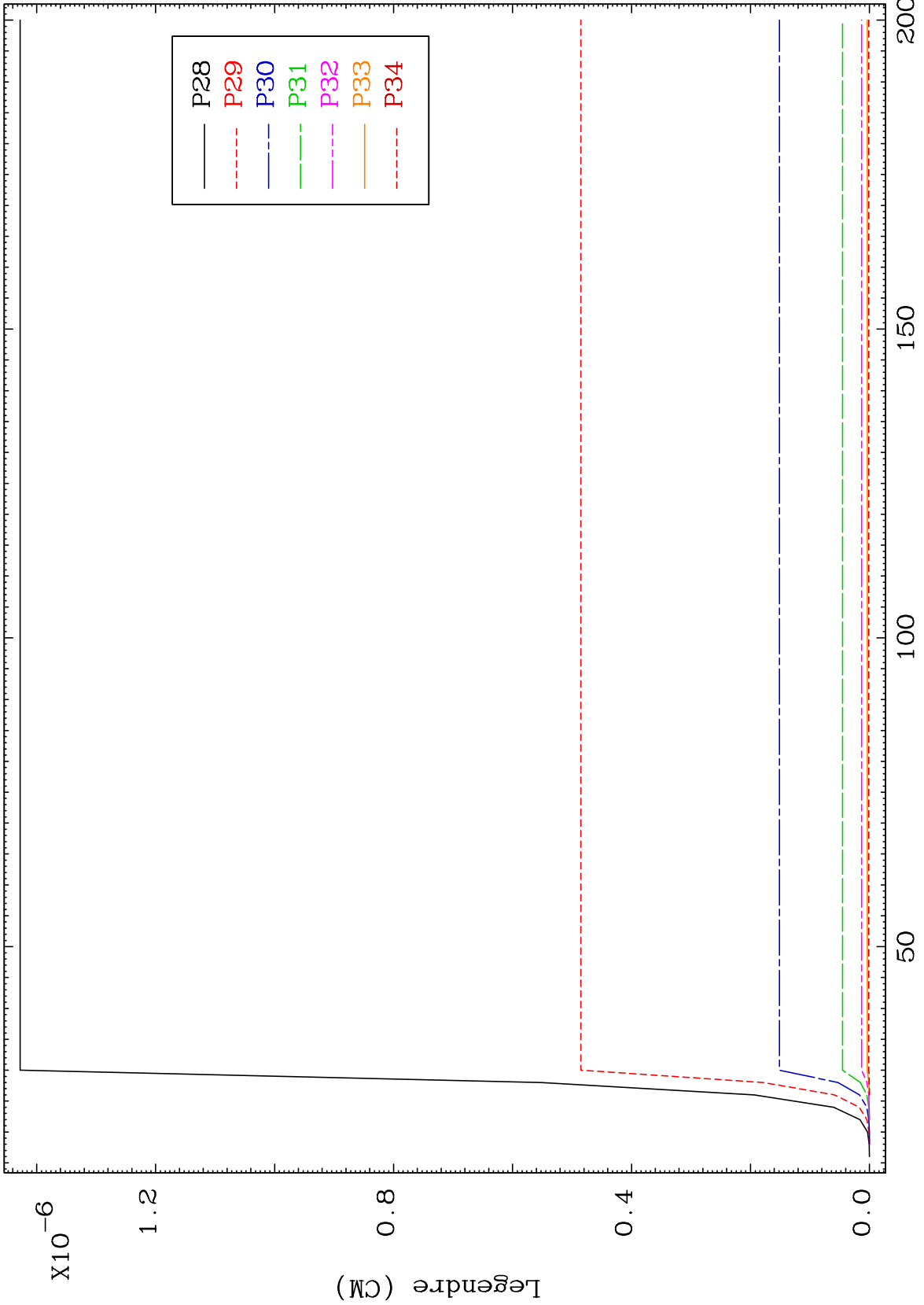
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



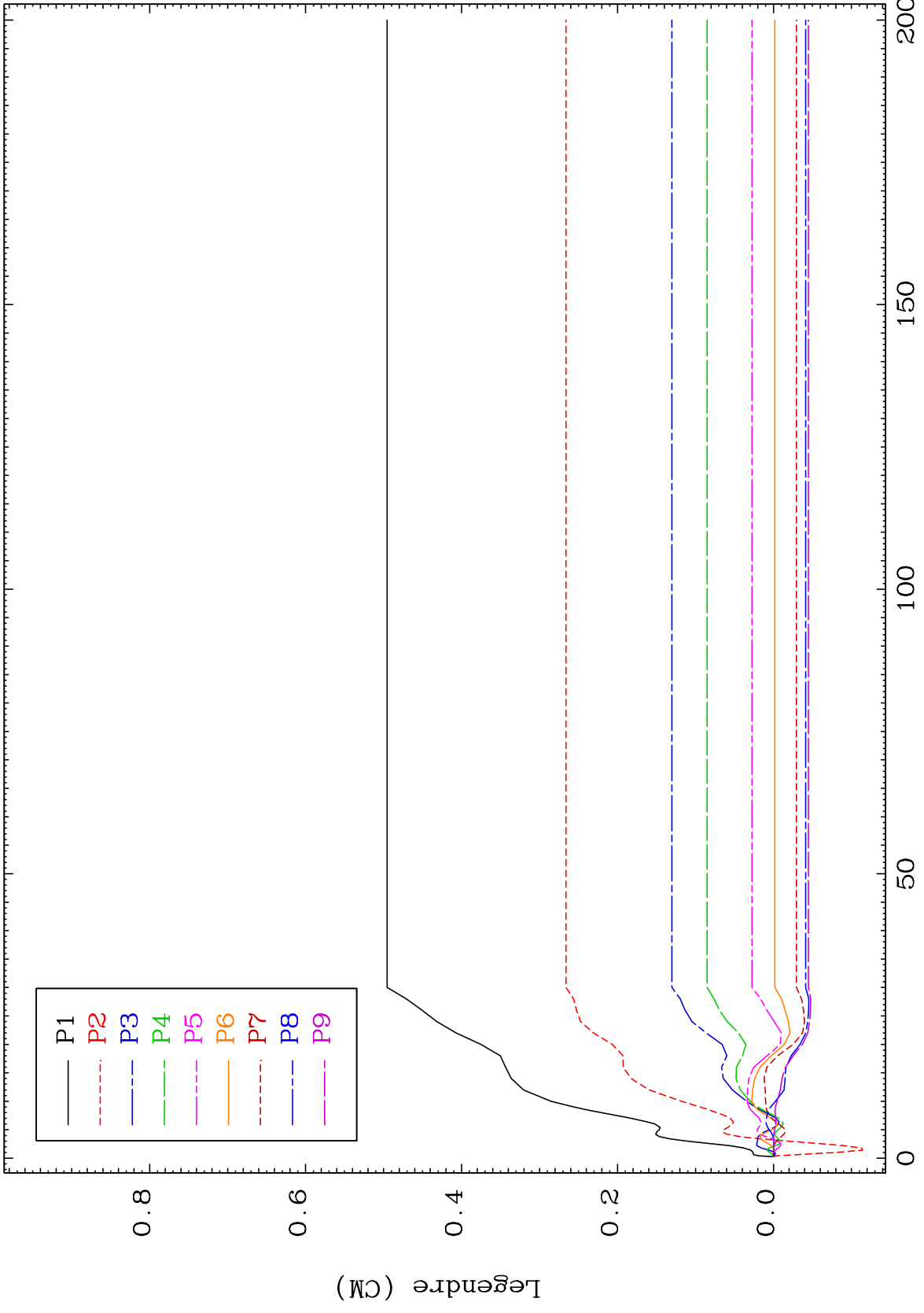
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41-Nb-103

MAT 4155

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

41-Nb-103



27

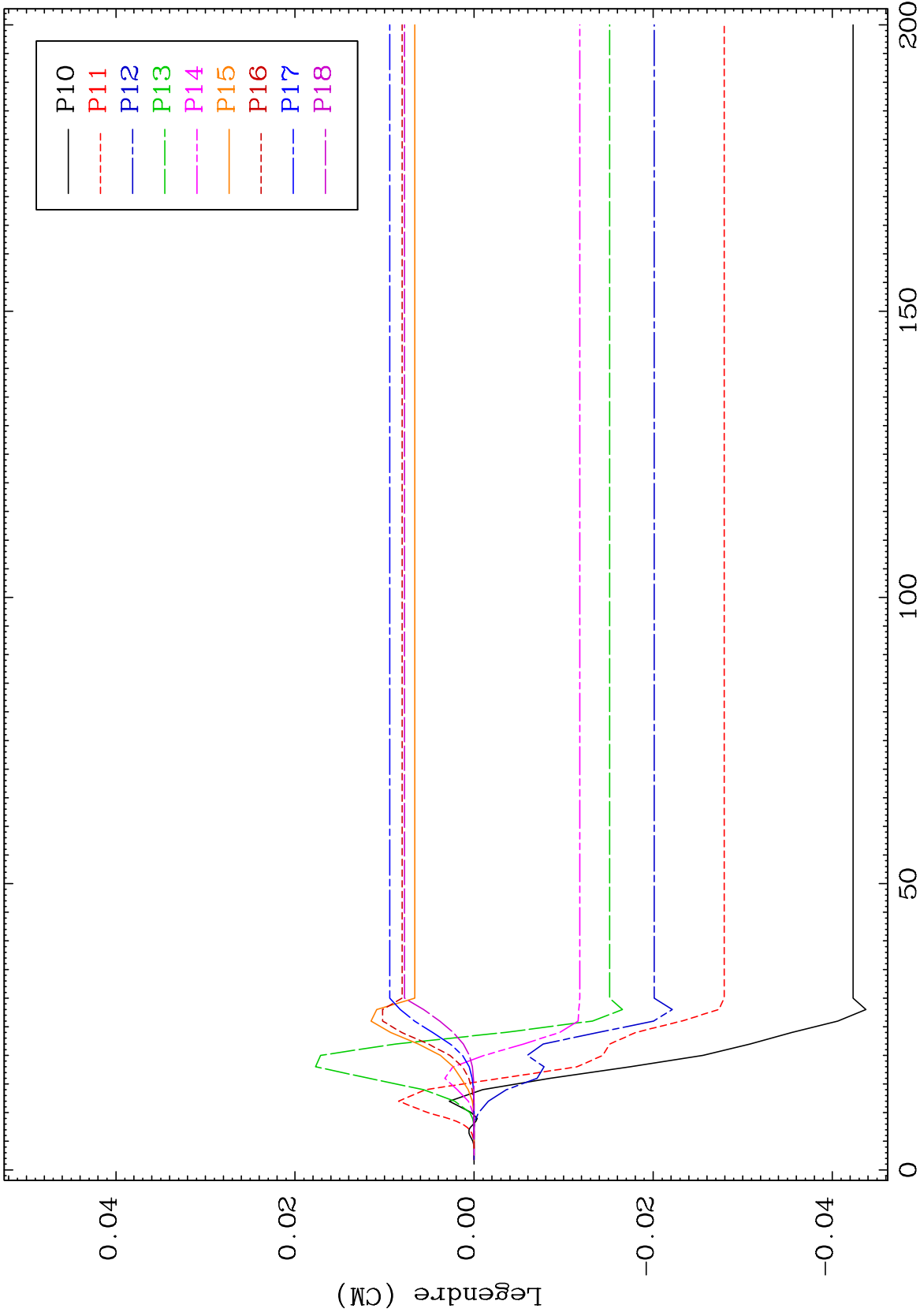
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



28

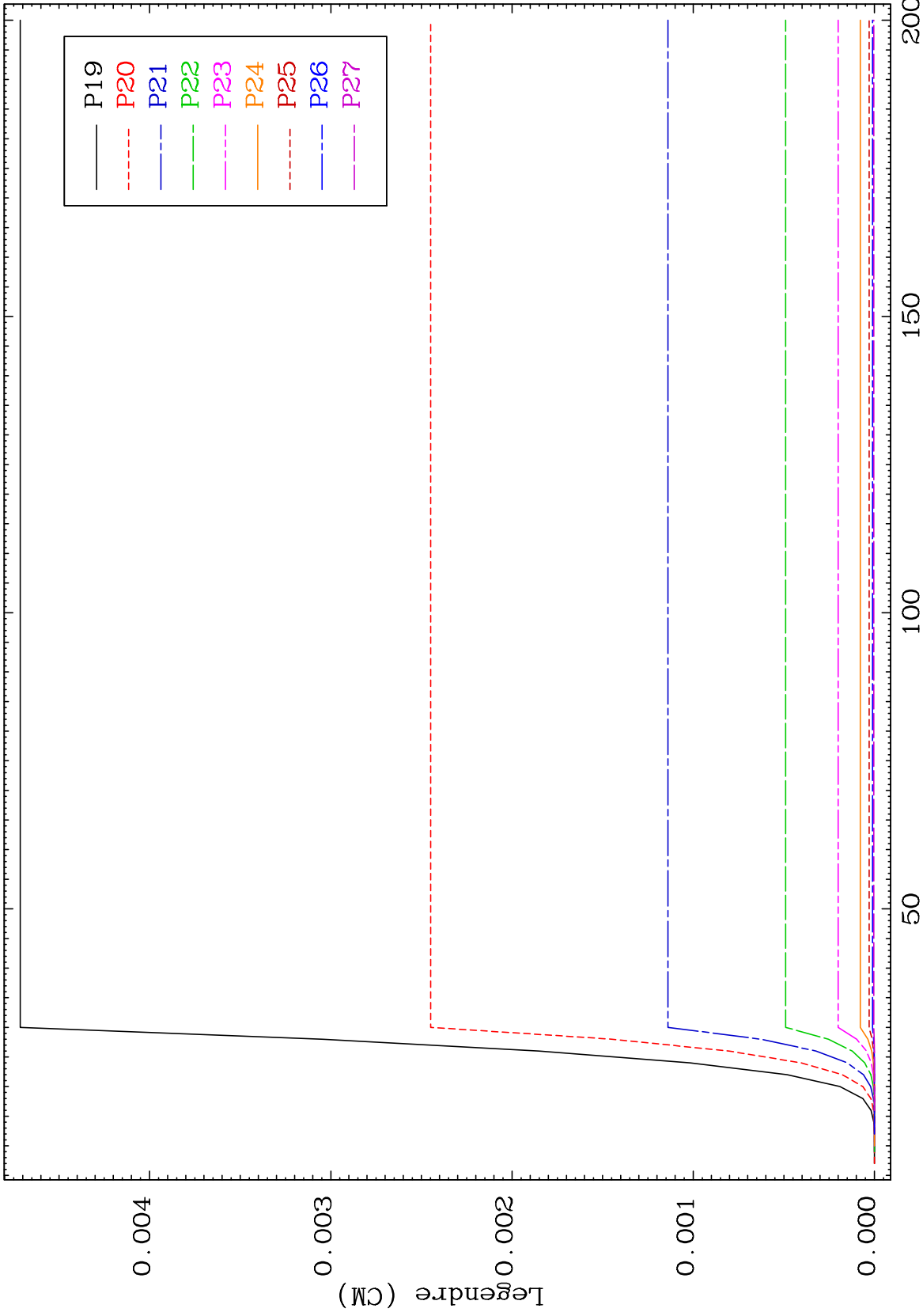
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



29

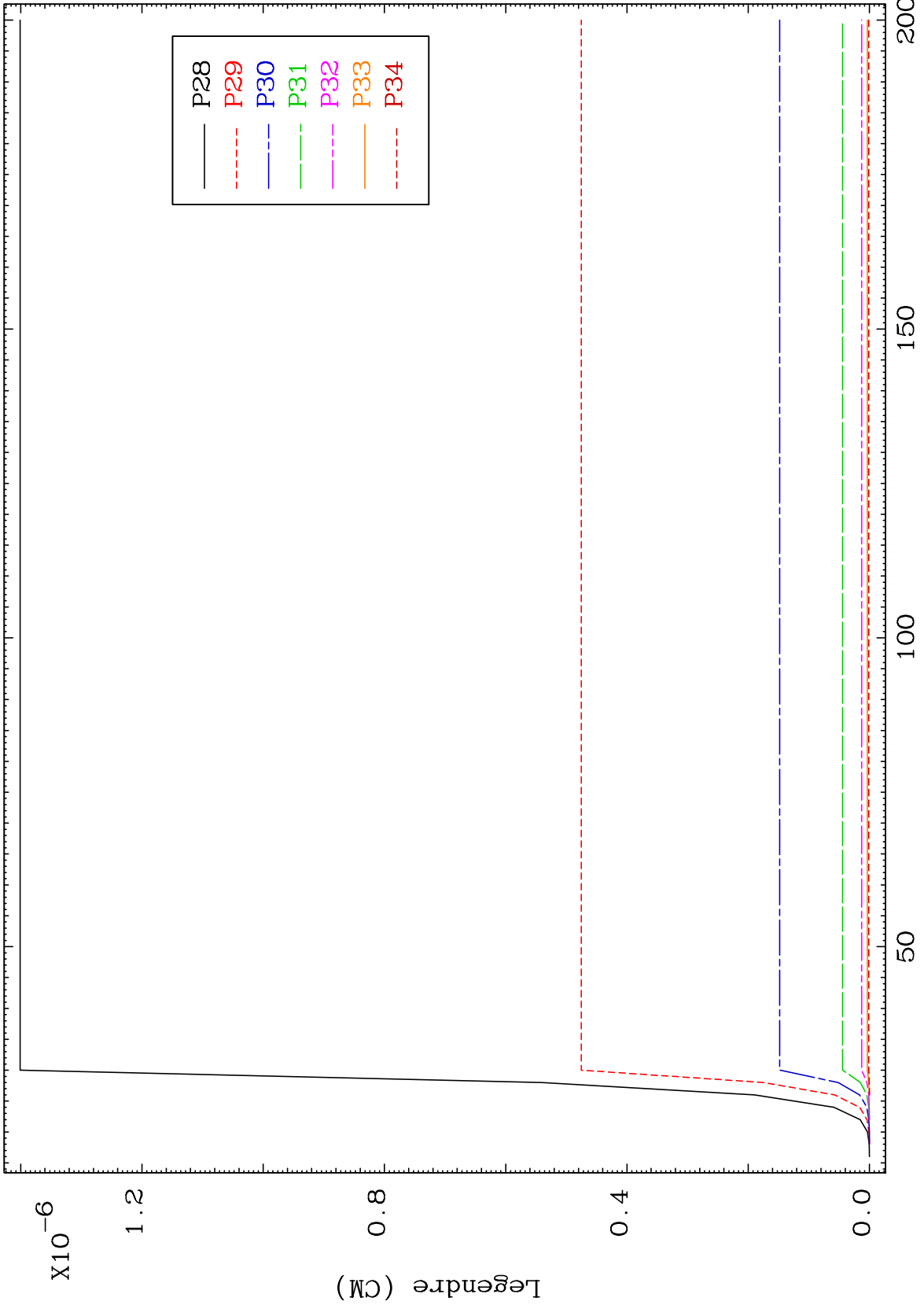
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



30

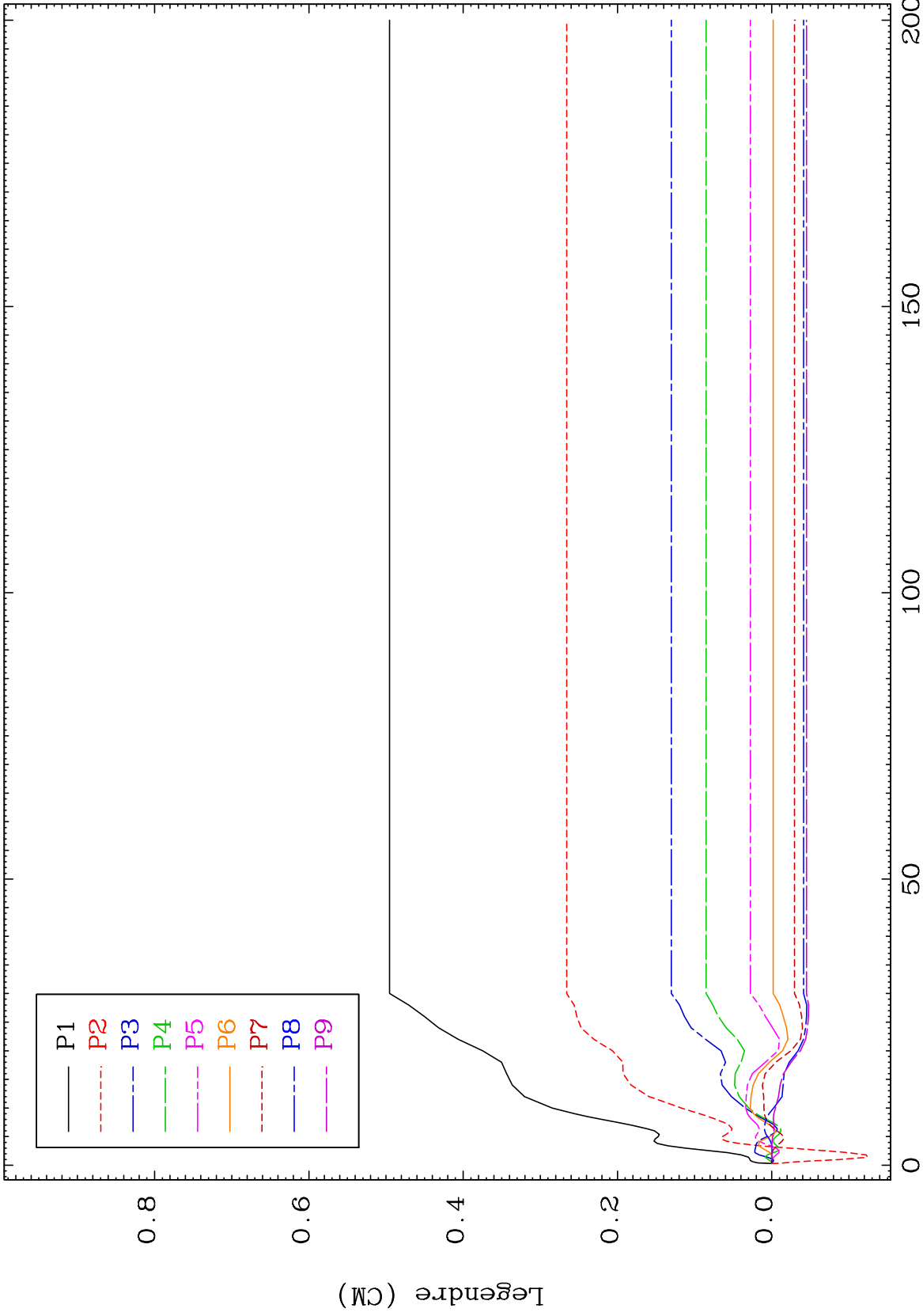
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



31

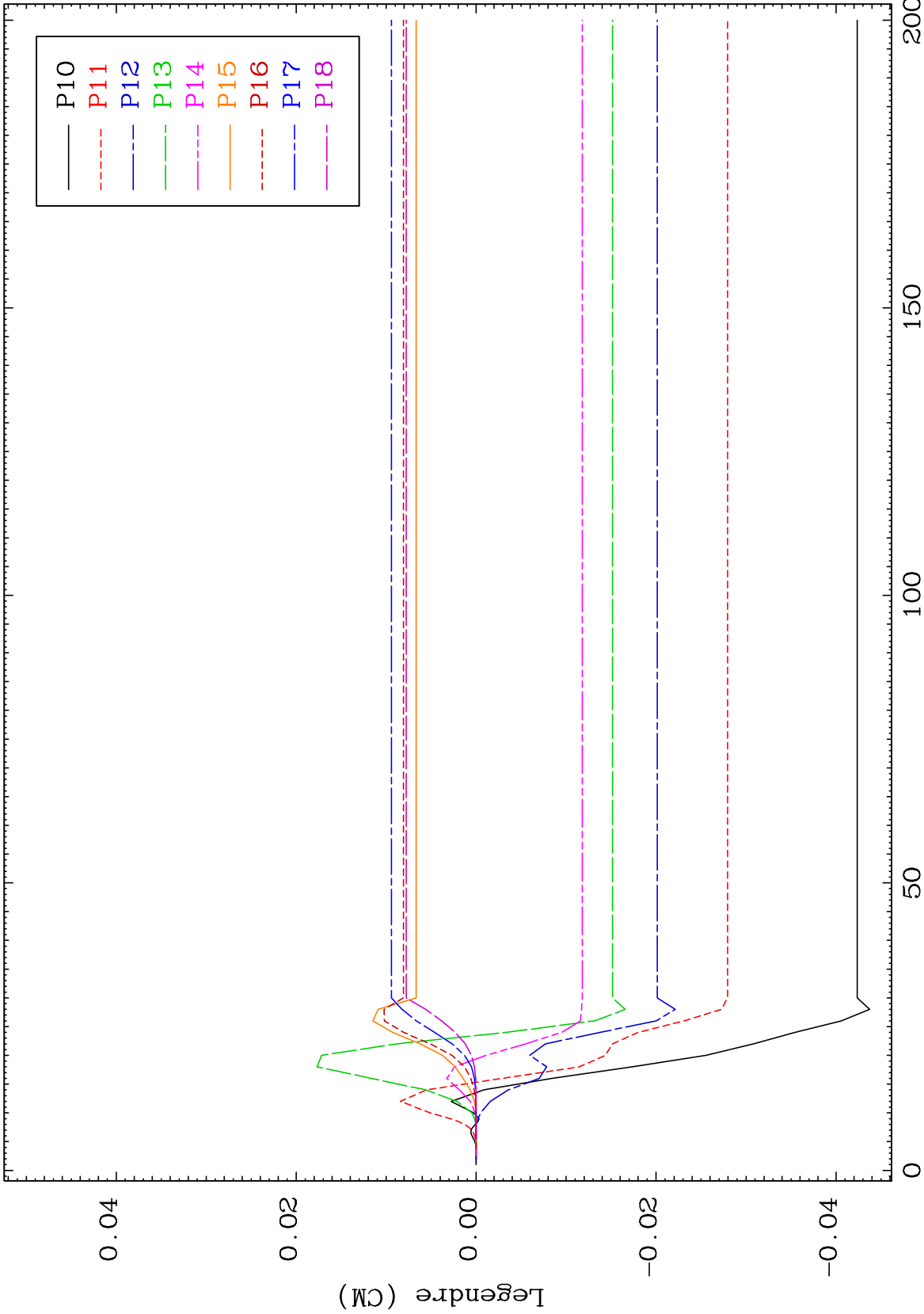
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

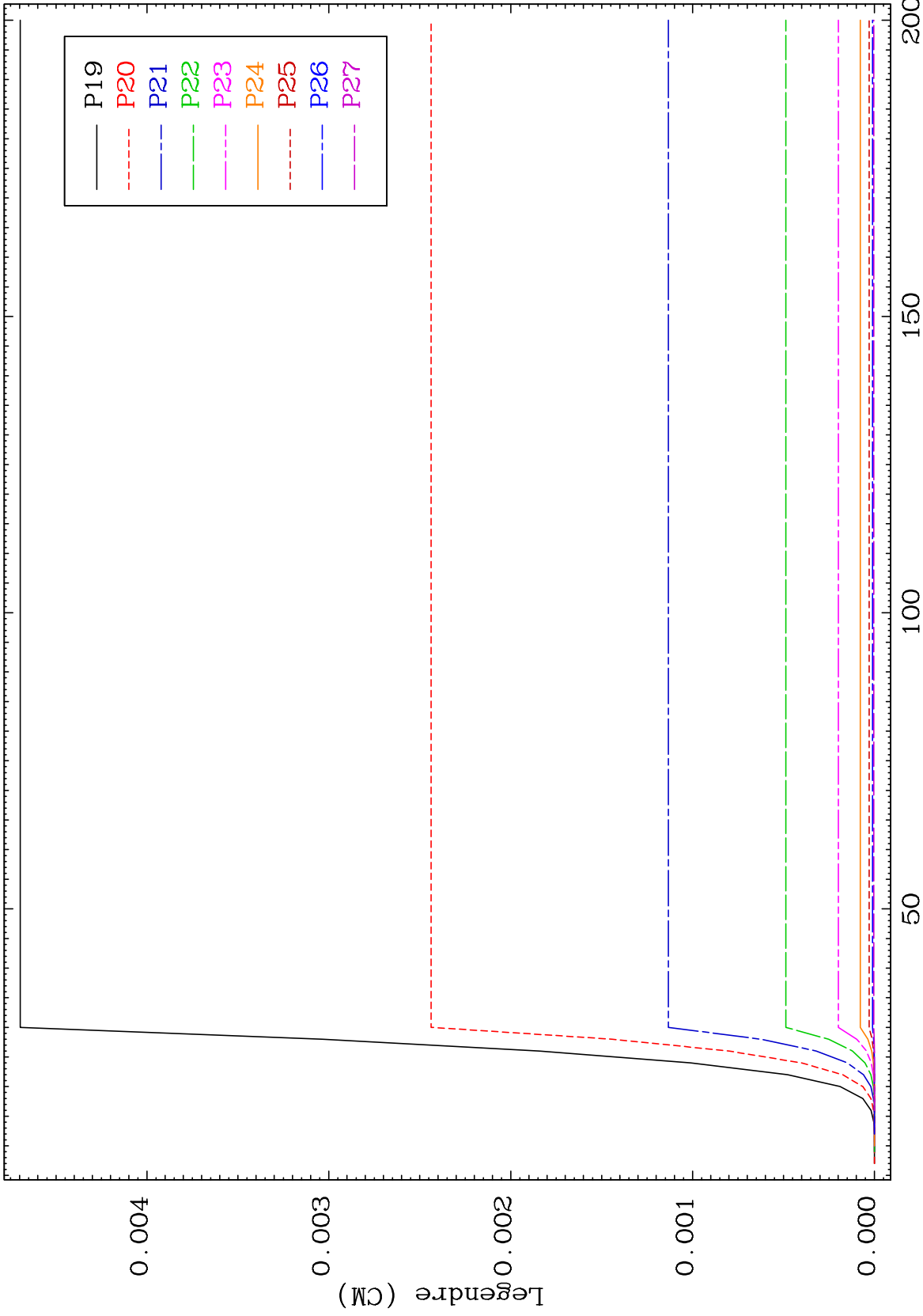
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Incident Energy (MeV)

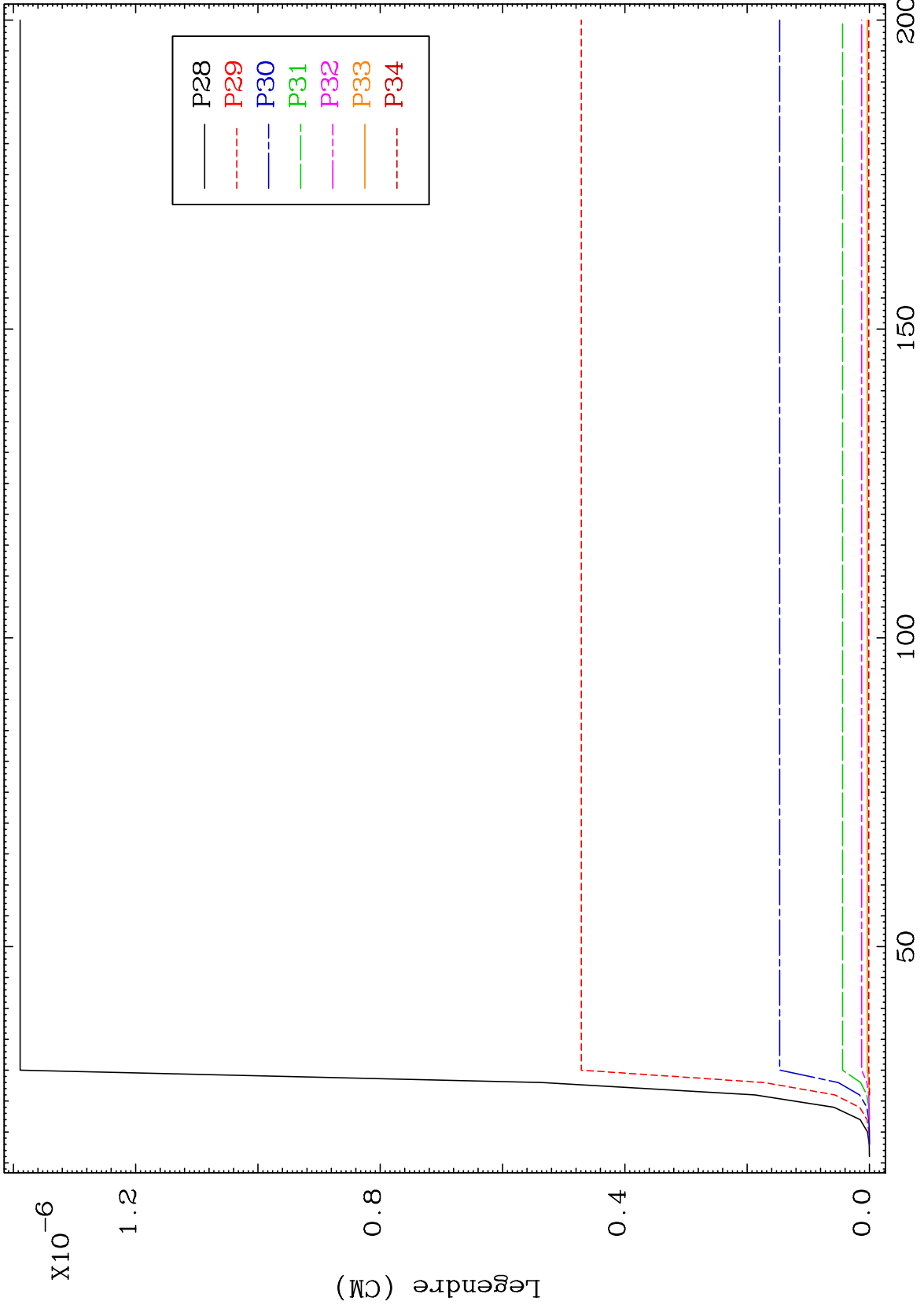
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MAT 4155

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

41-Nb-103



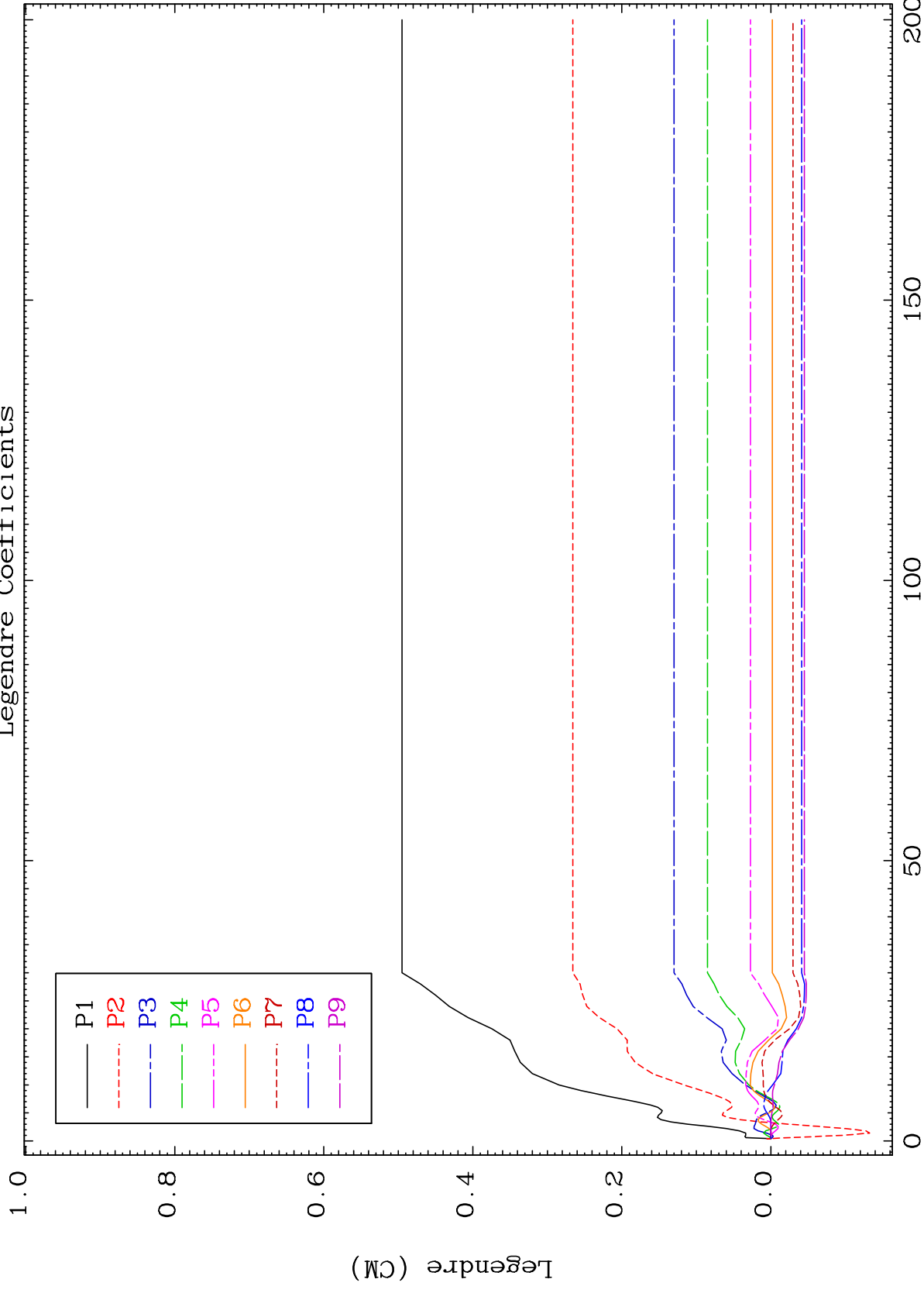
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41-Nb-103

MAT 4155

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

41-Nb-103



41-Nb-103

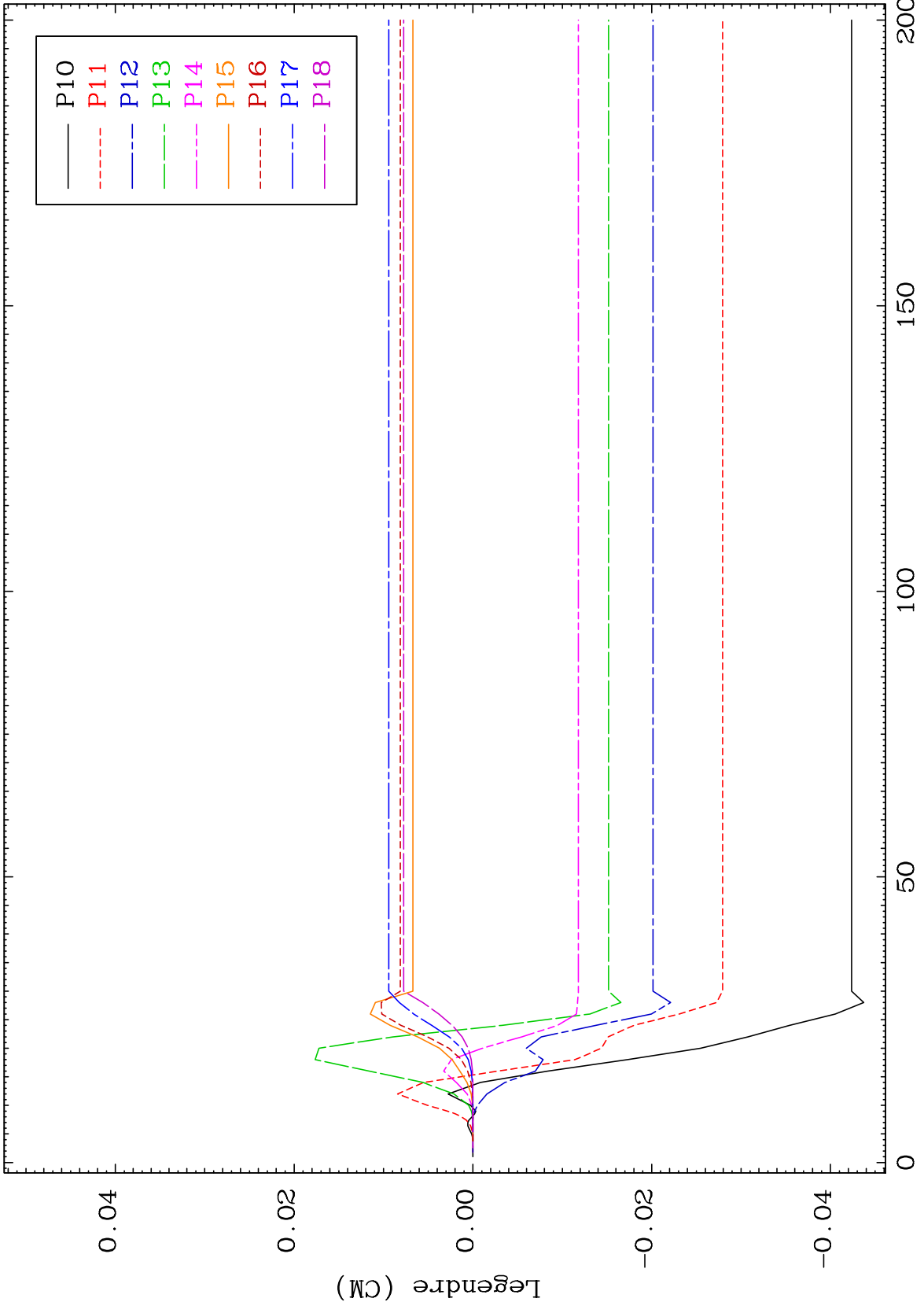
Incident Energy (MeV)

35

MAT 4155

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

41-Nb-103



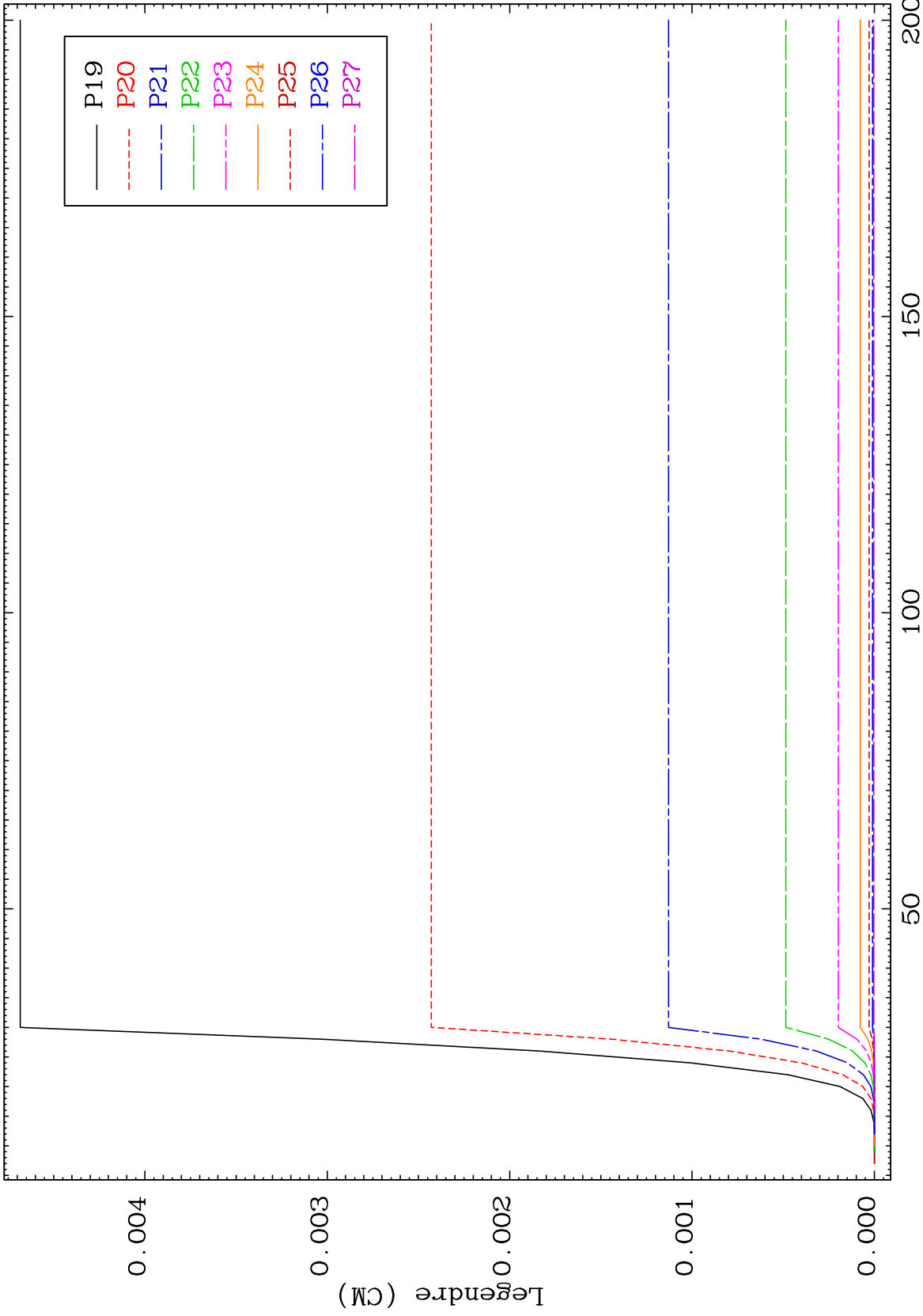
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41-Nb-103

MAT 4155

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

41-Nb-103



37

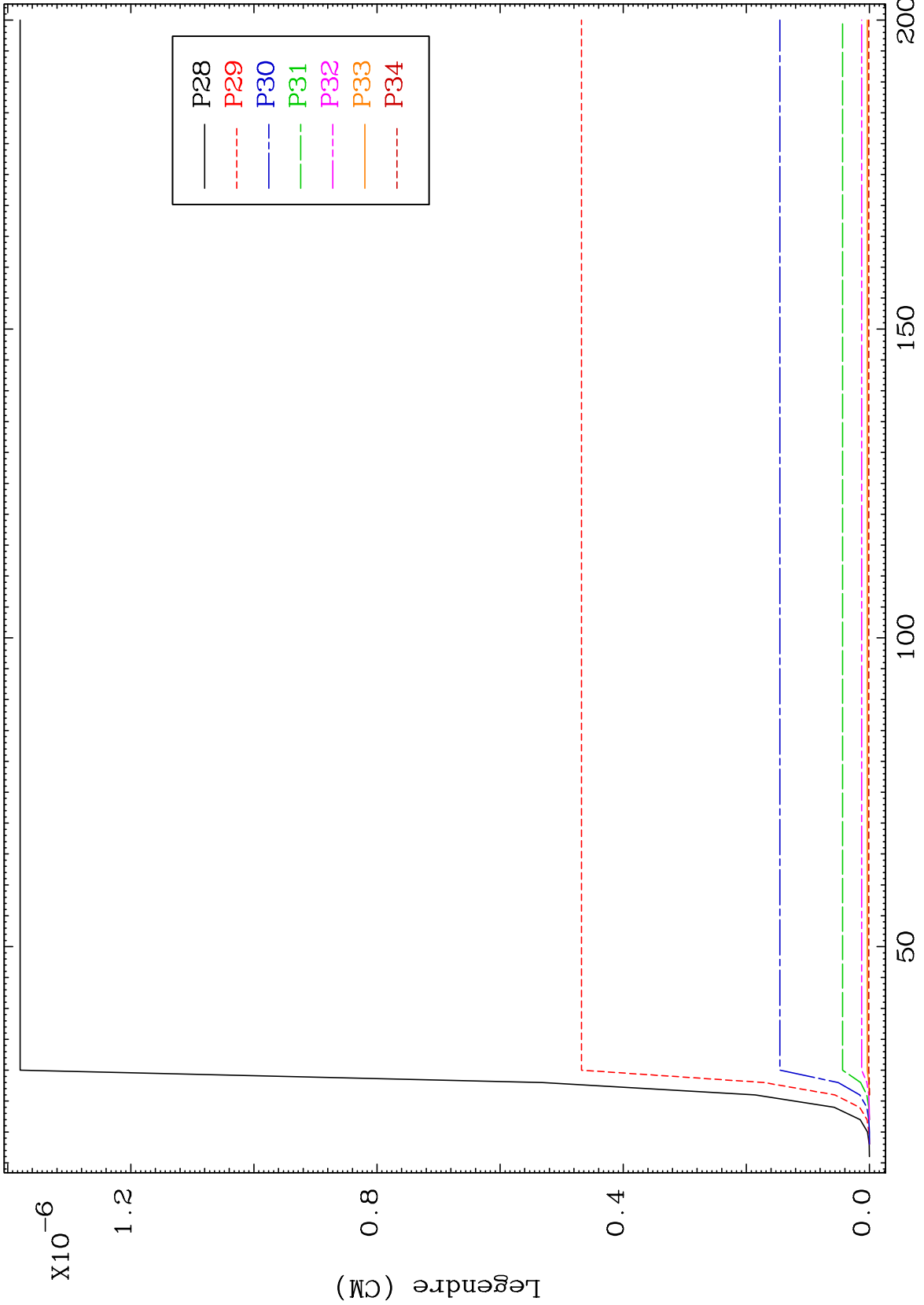
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



38

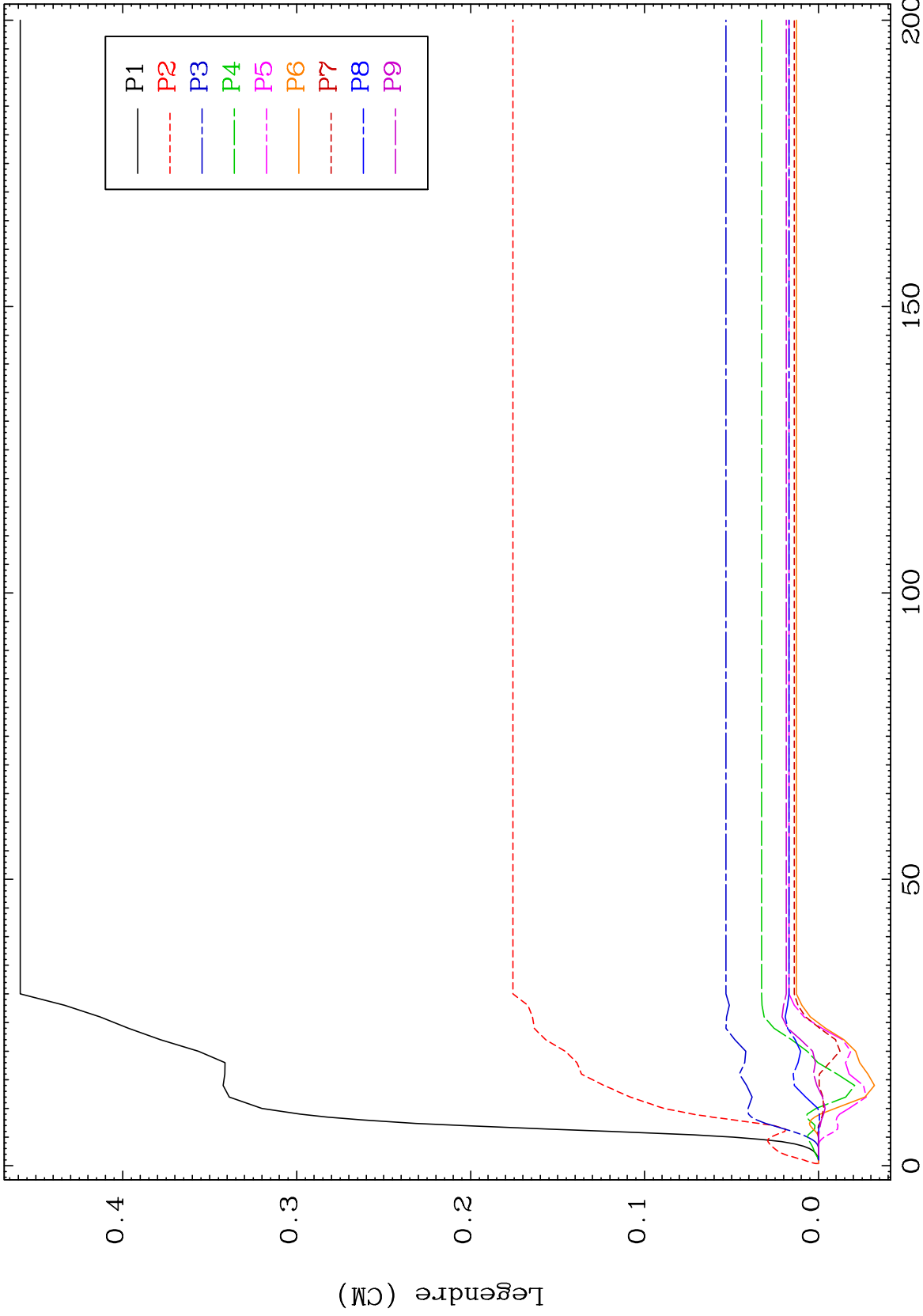
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



39

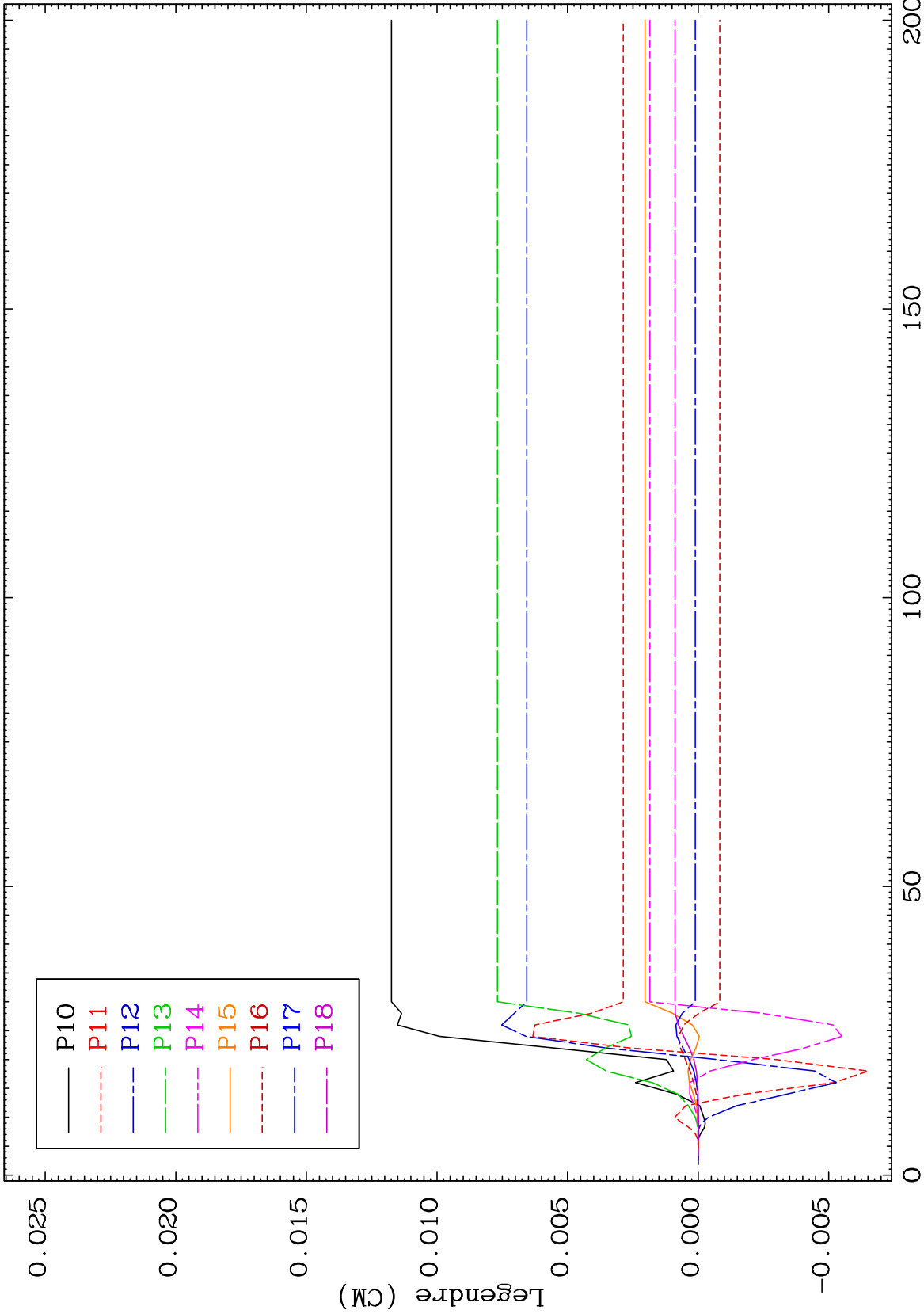
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



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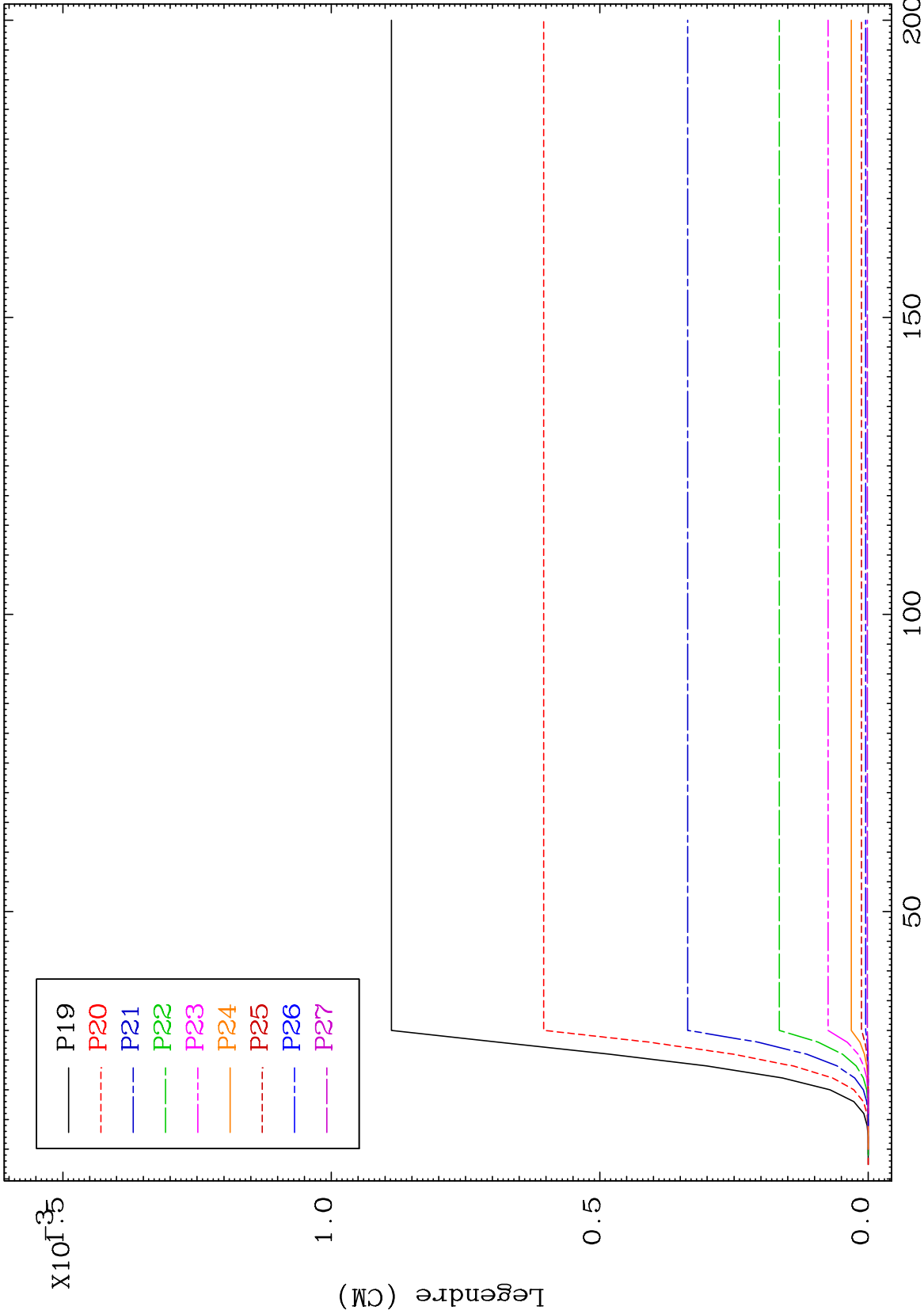
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



41

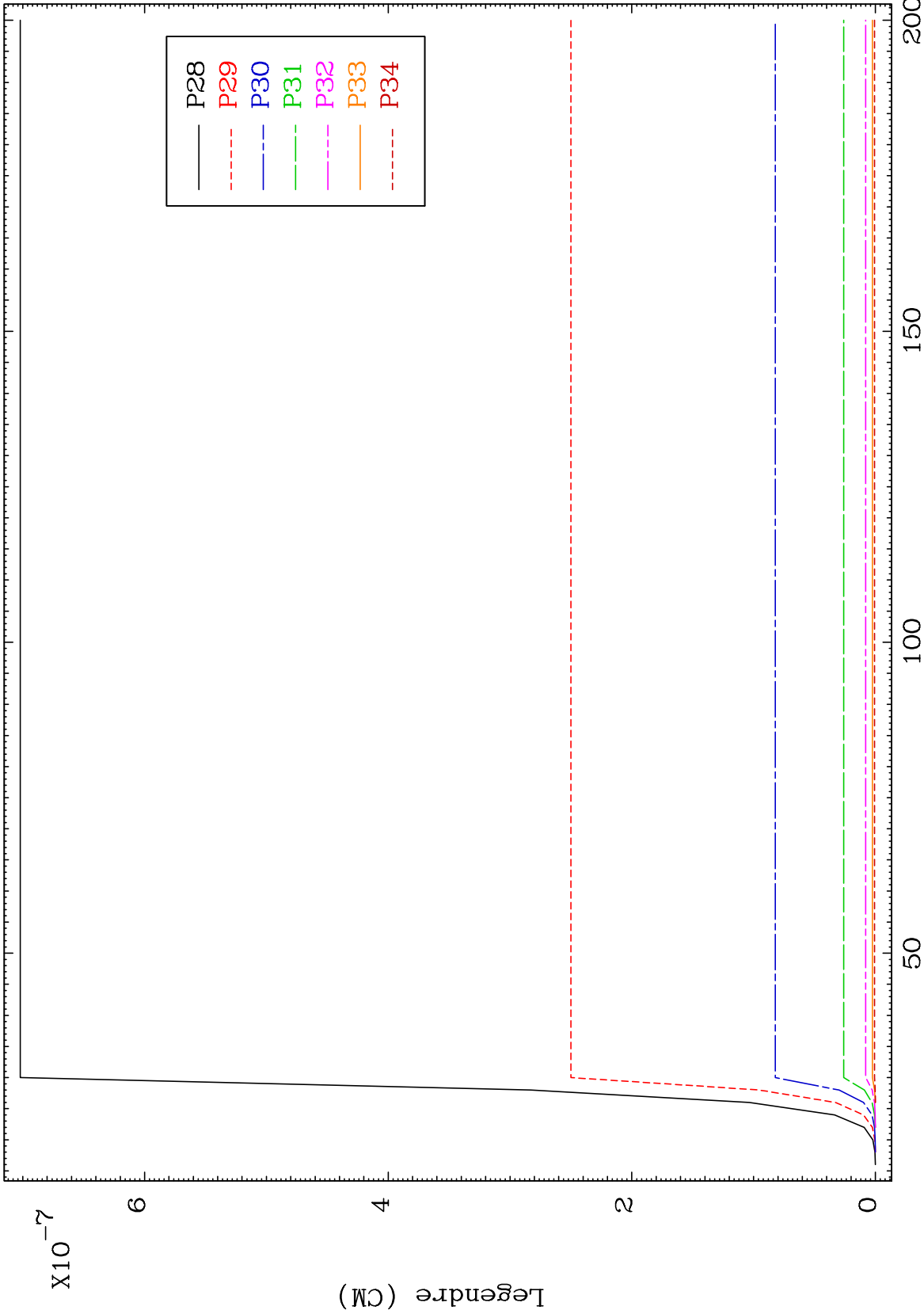
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



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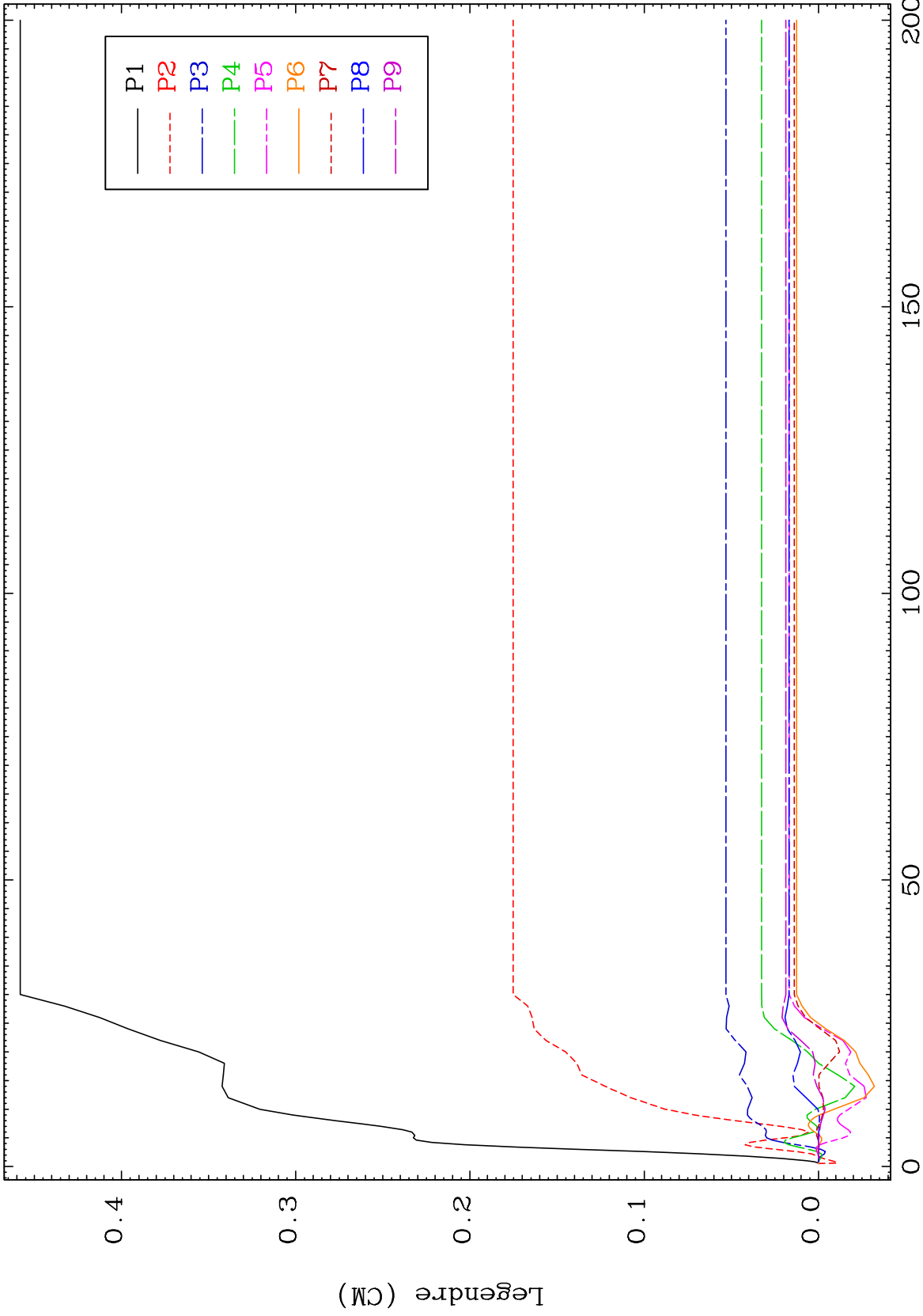
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



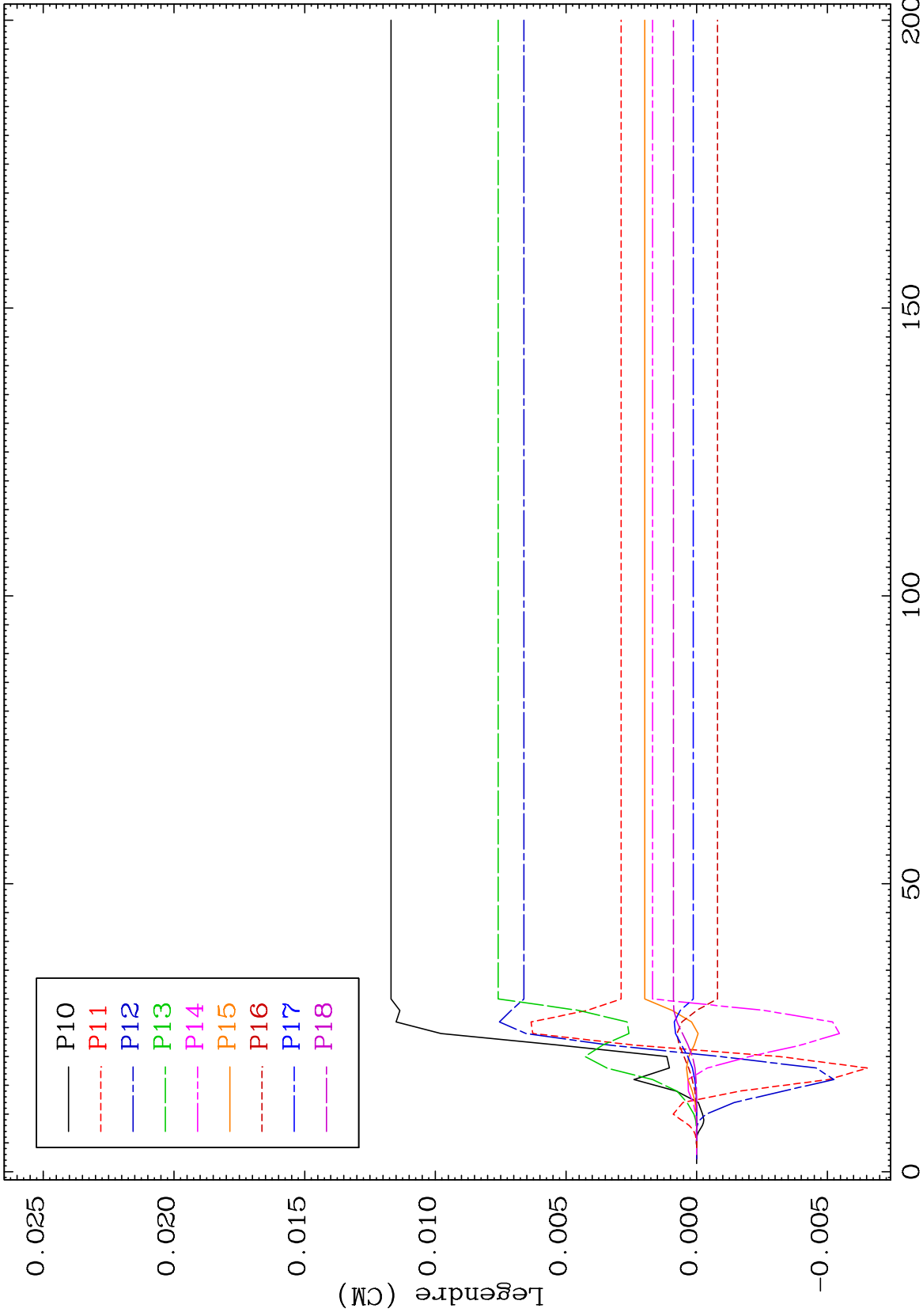
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MAT 4155

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

41-Nb-103



44

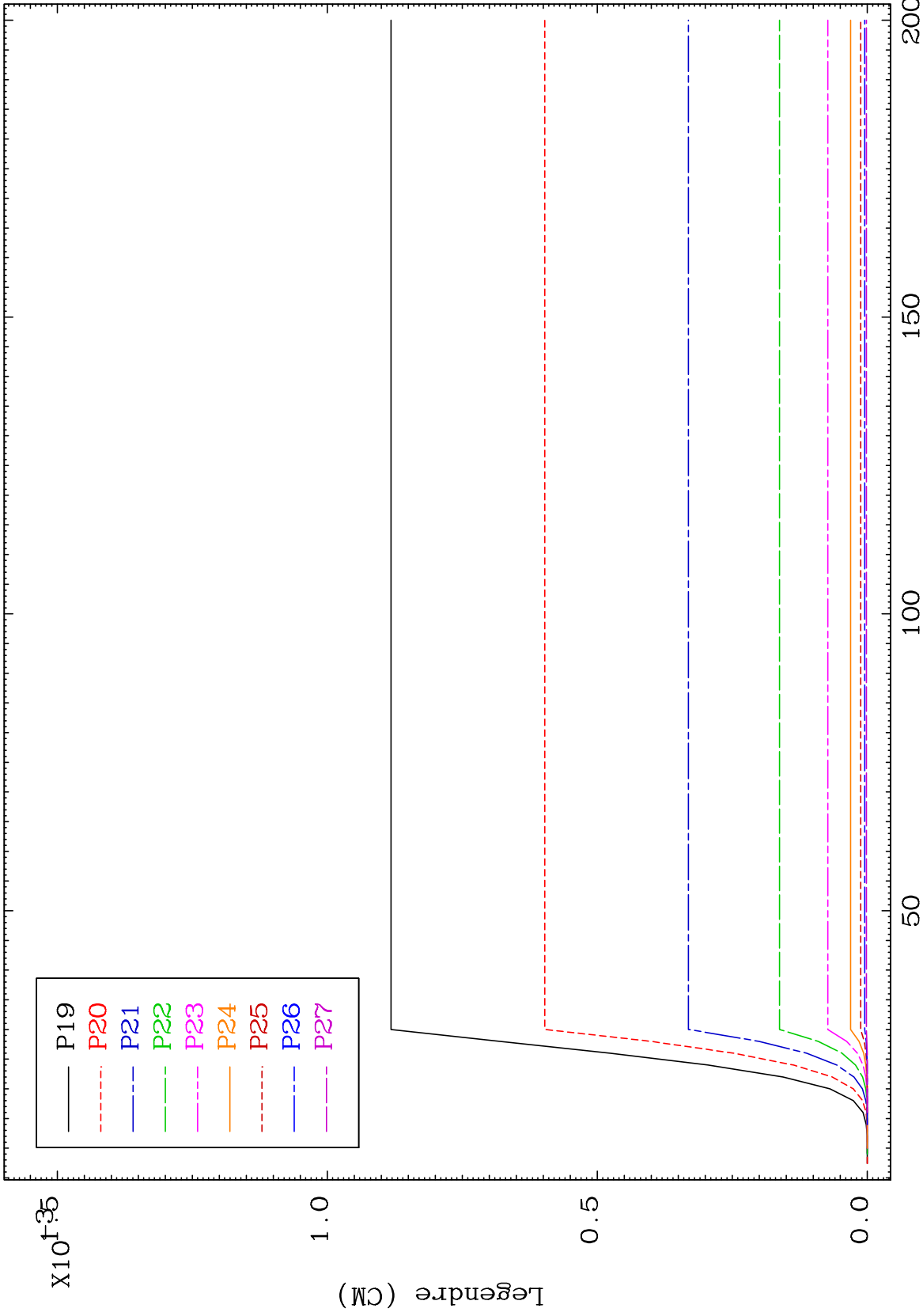
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



45

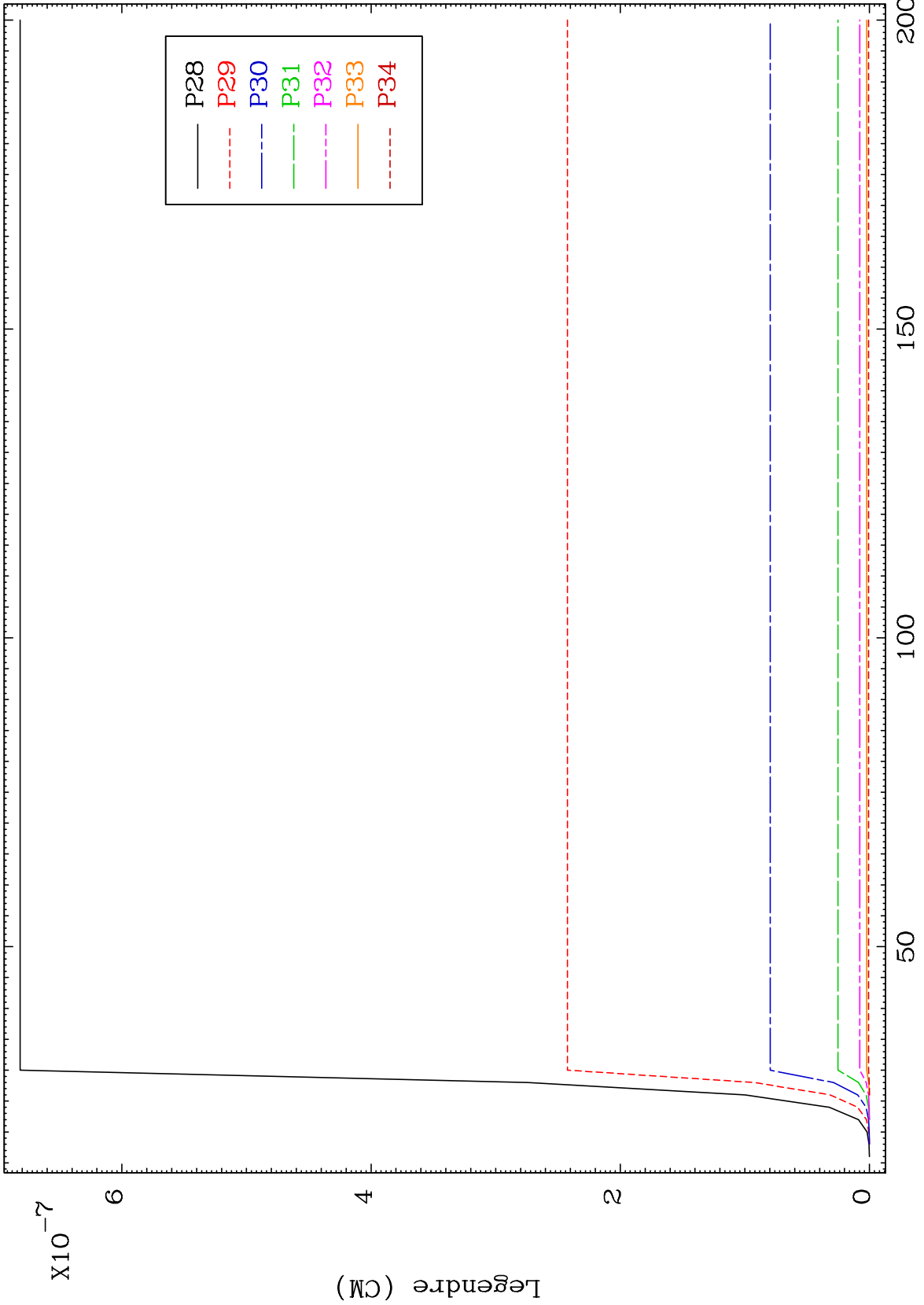
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



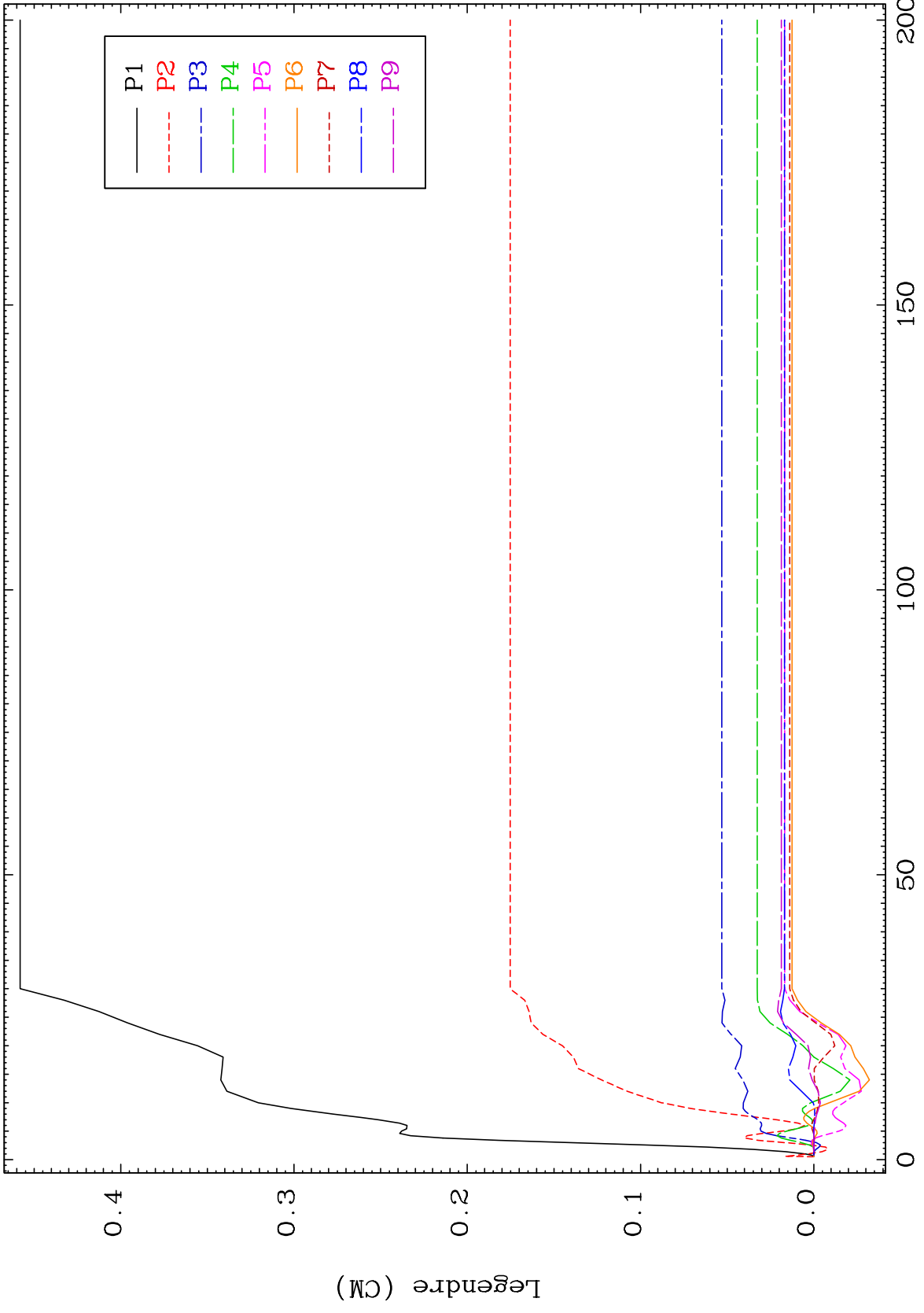
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41-Nb-103

MAT 4155

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

41-Nb-103



47

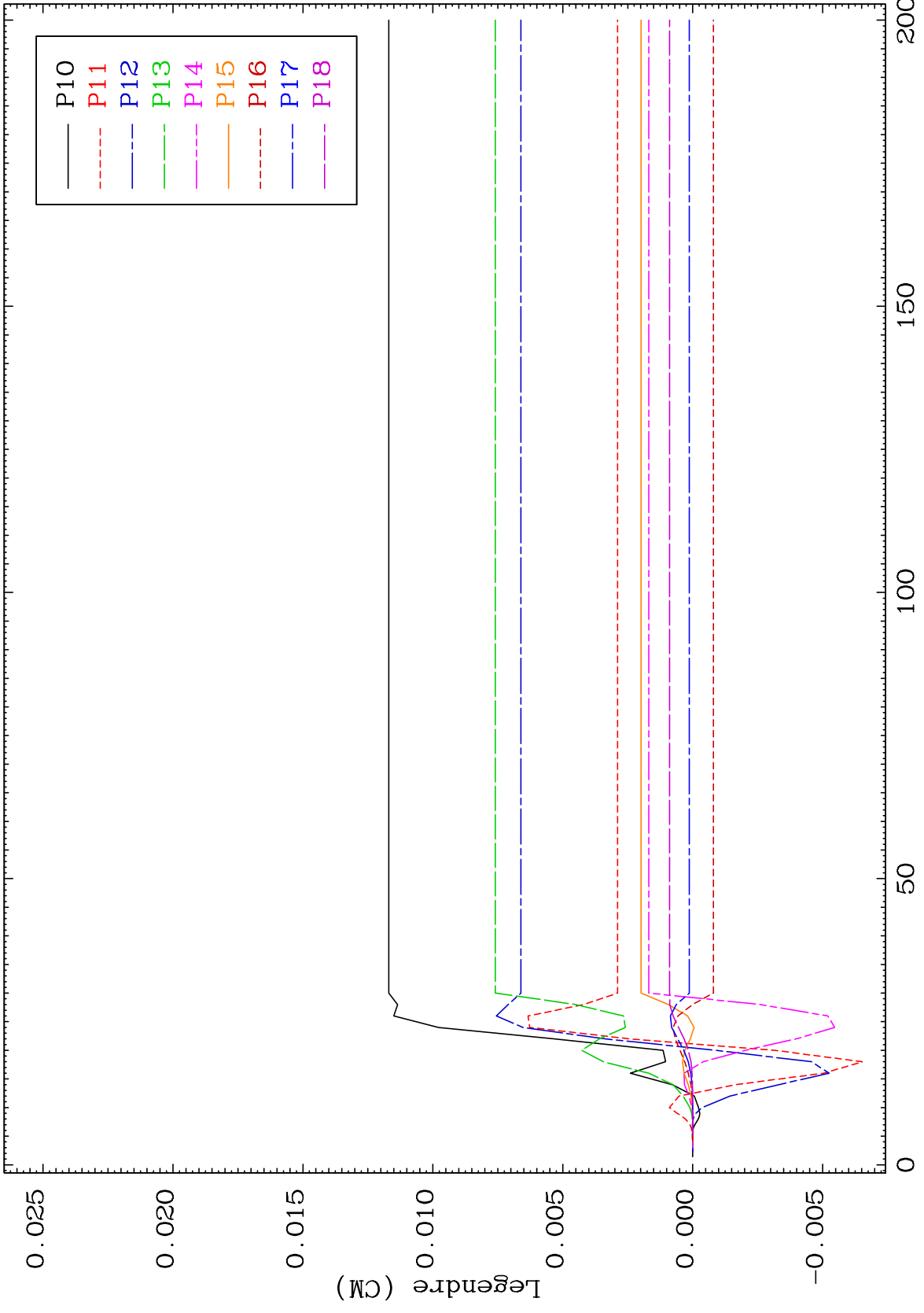
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

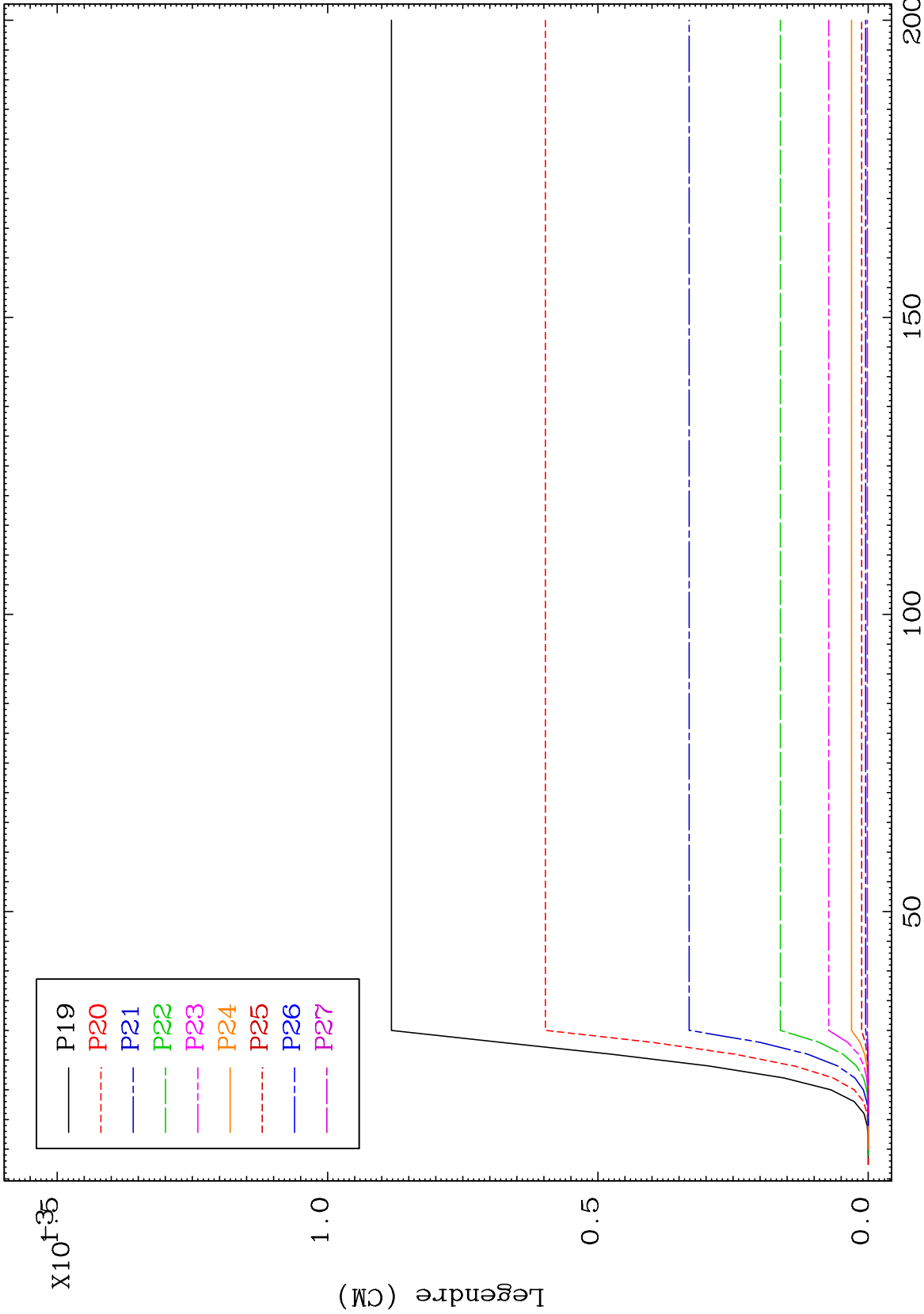
41-Nb-103



48

Incident Energy (MeV)

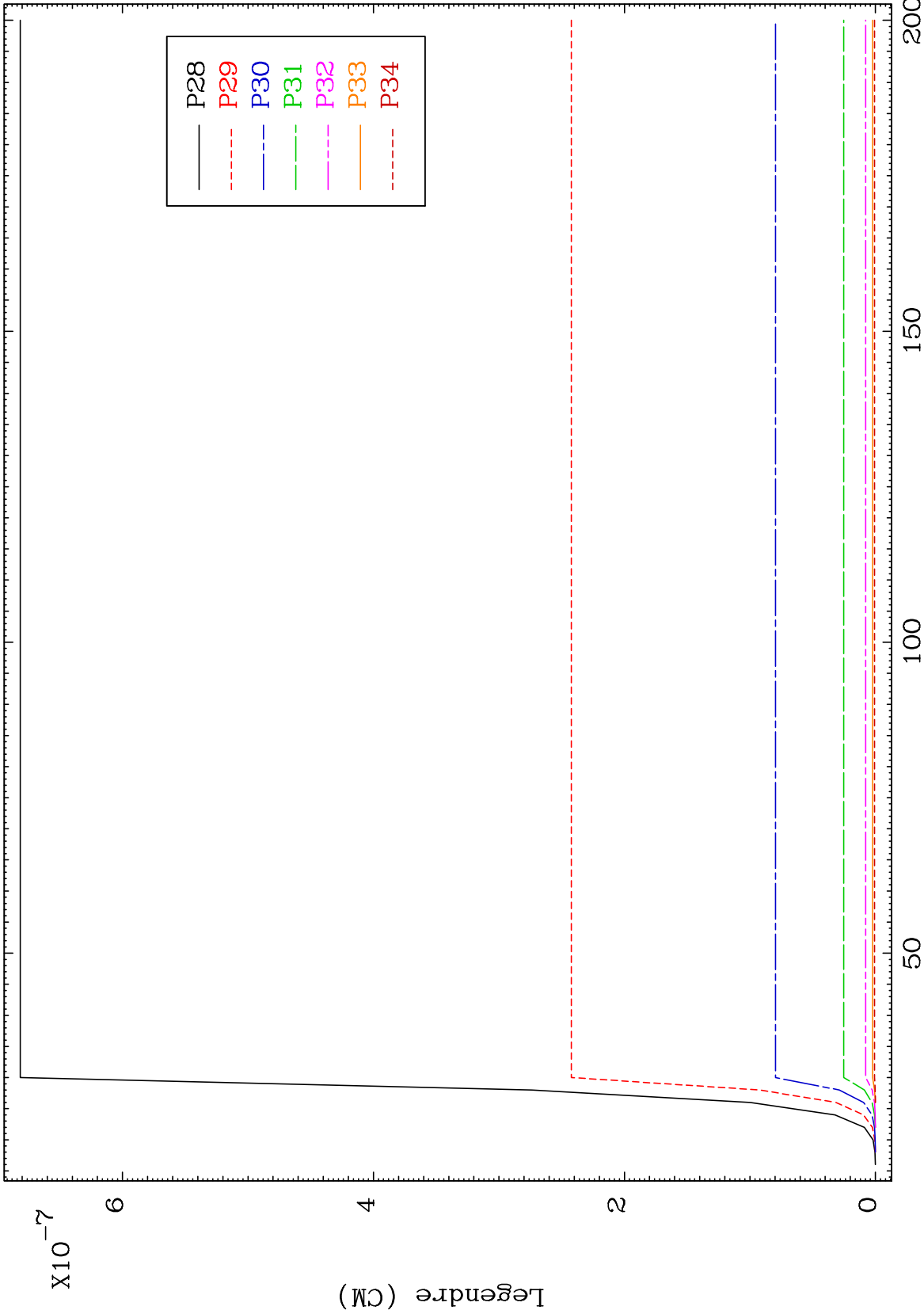
41-Nb-103



MAT 4155

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

41-Nb-103



50

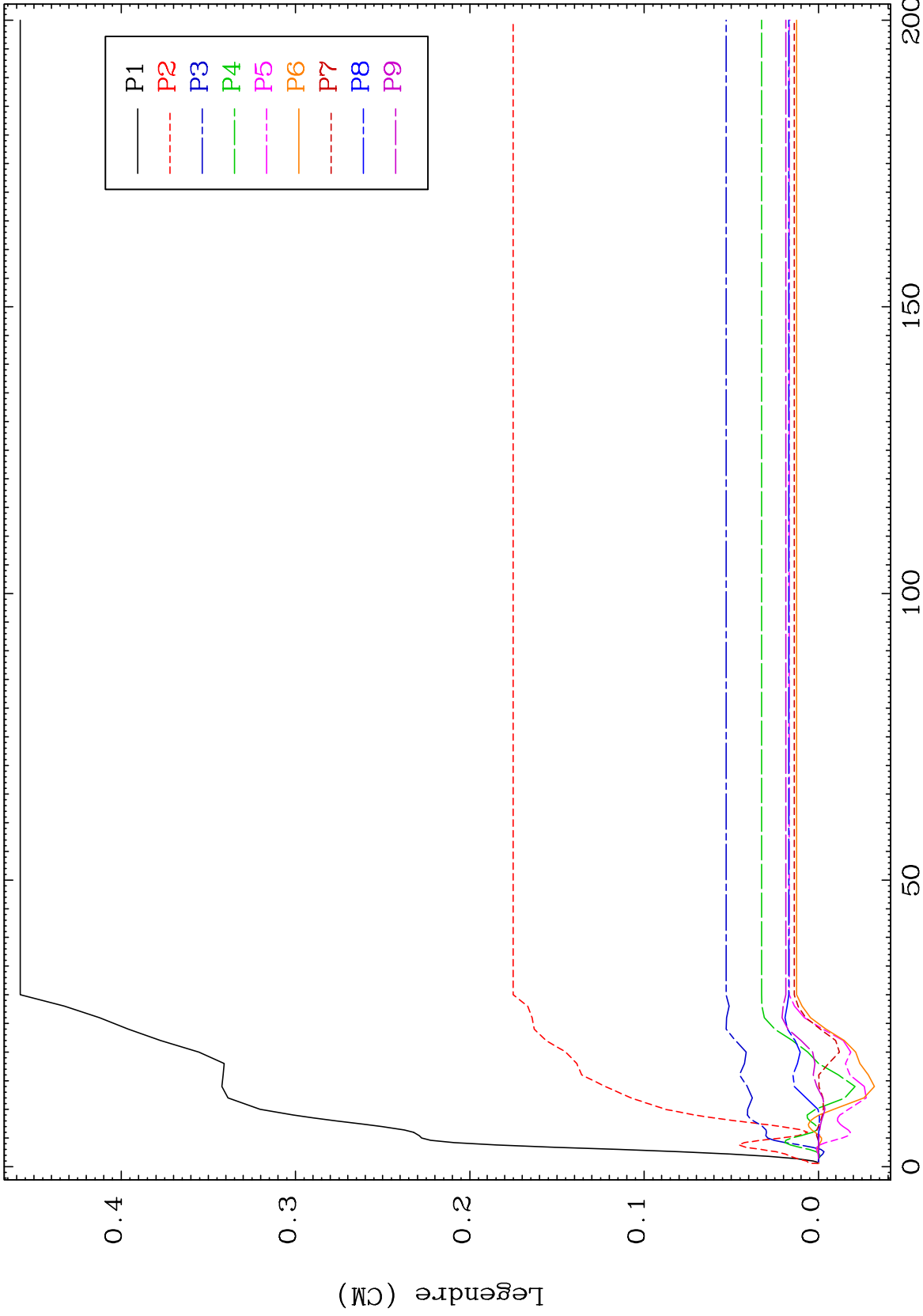
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



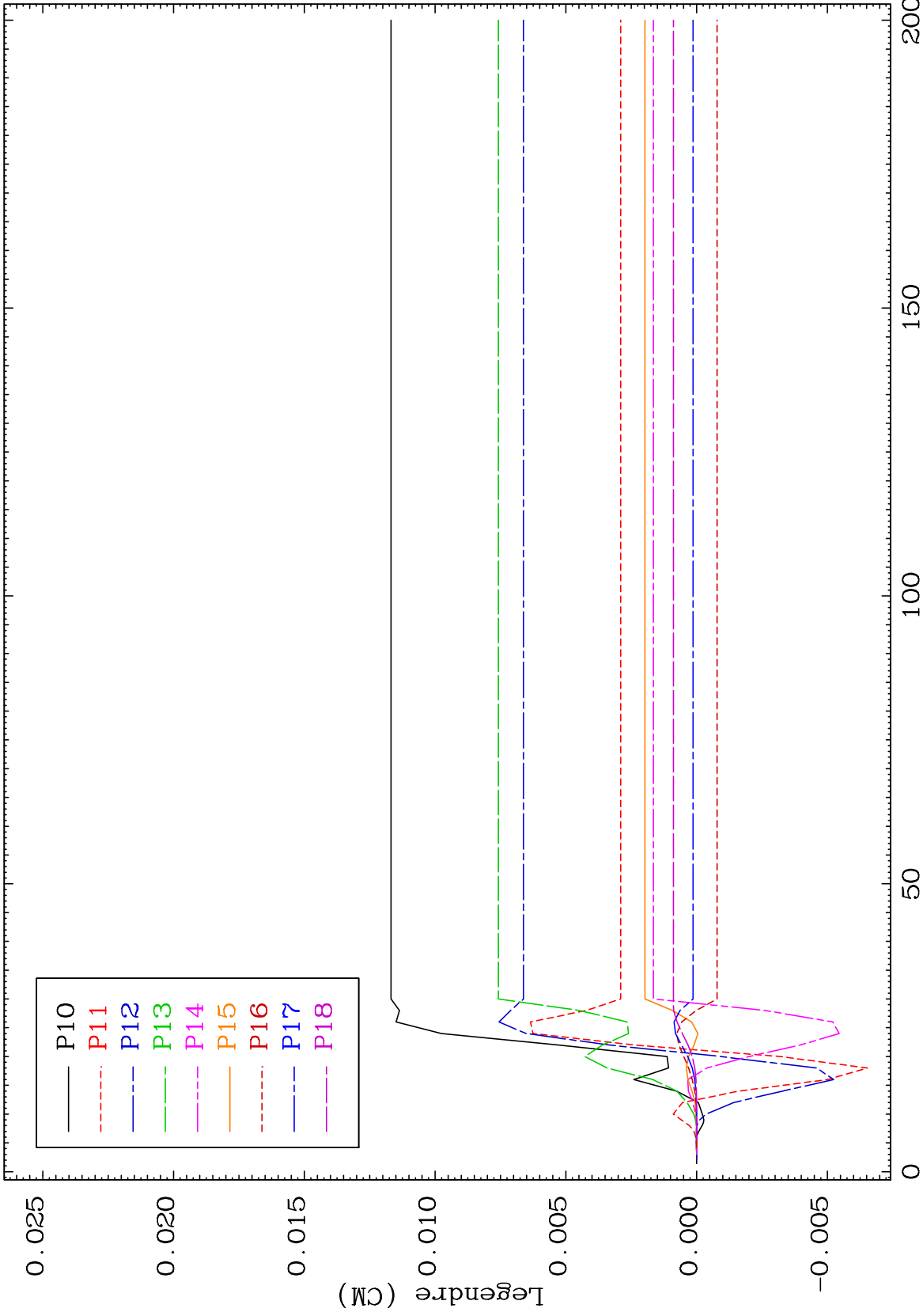
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41-Nb-103

MAT 4155

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

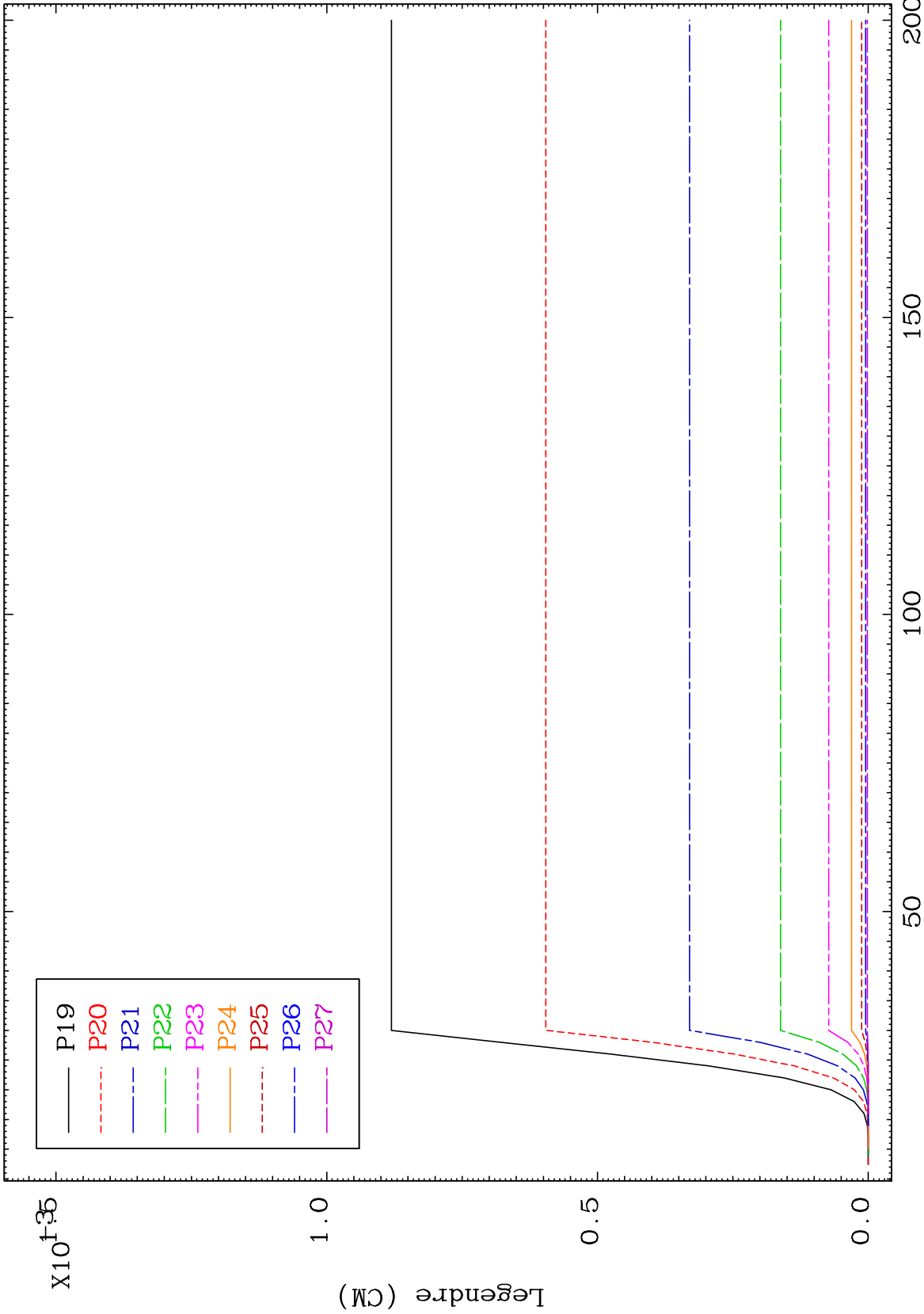
41-Nb-103



52

Incident Energy (MeV)

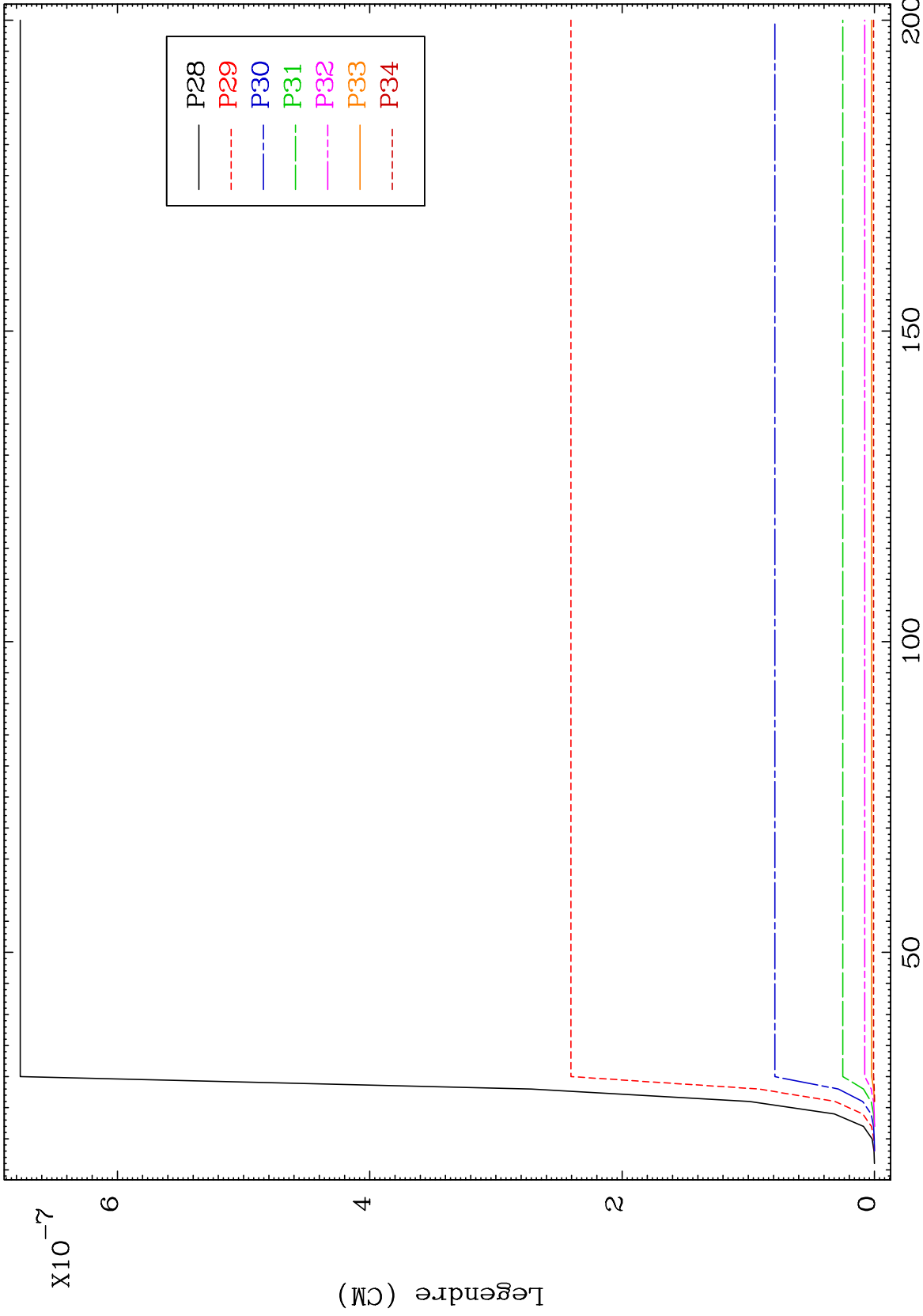
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MAT 4155

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

41-Nb-103



54

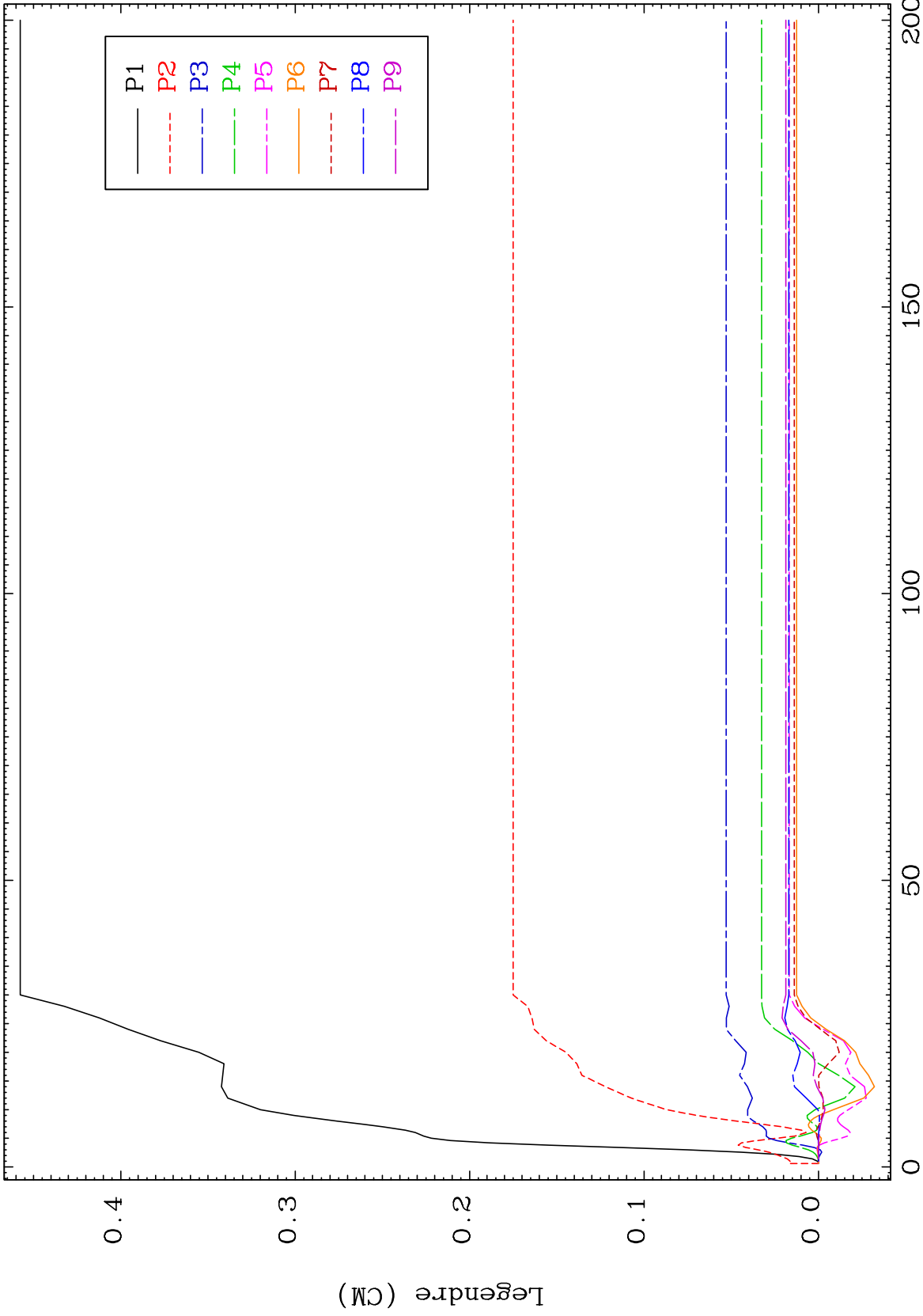
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



55

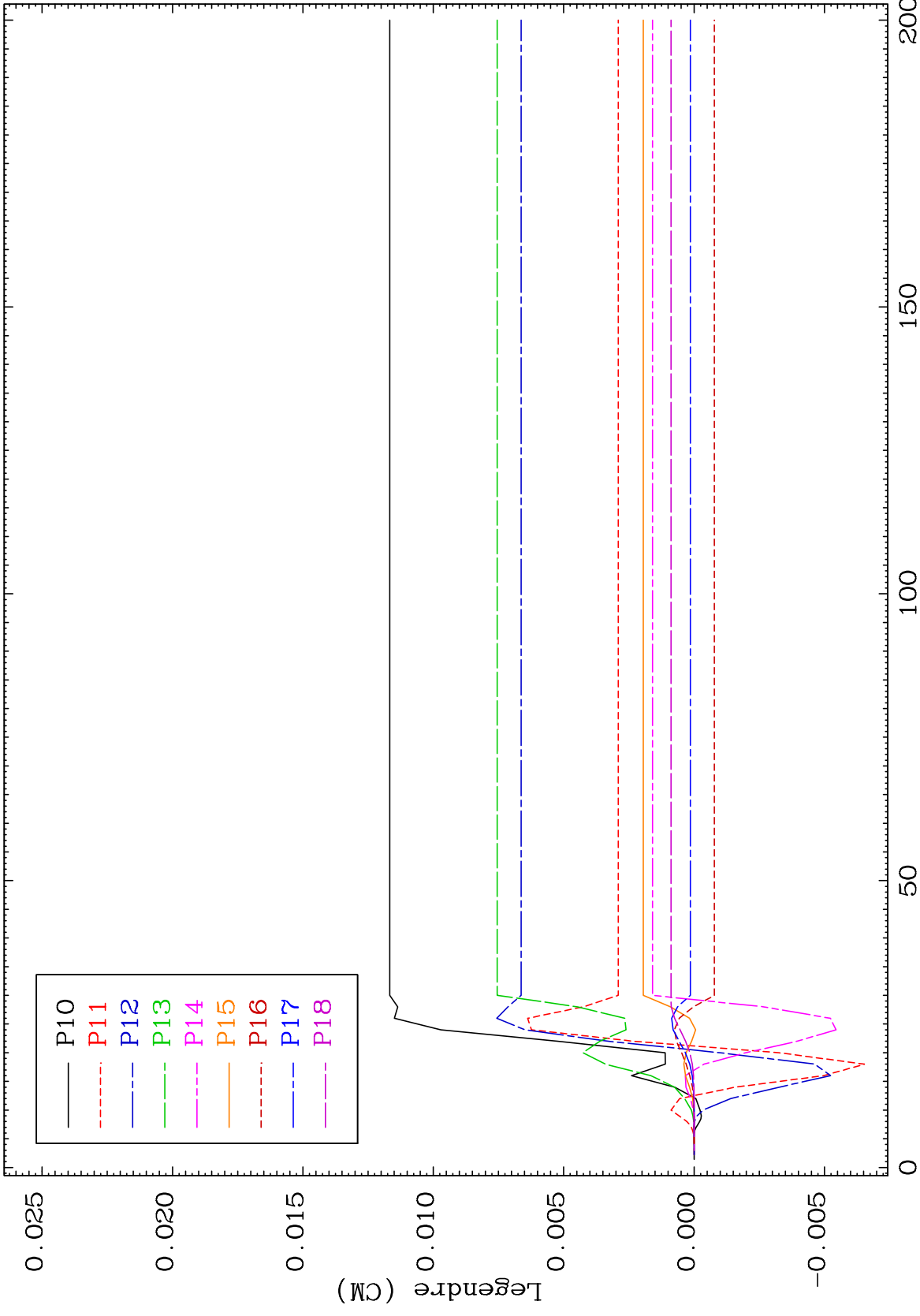
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



56

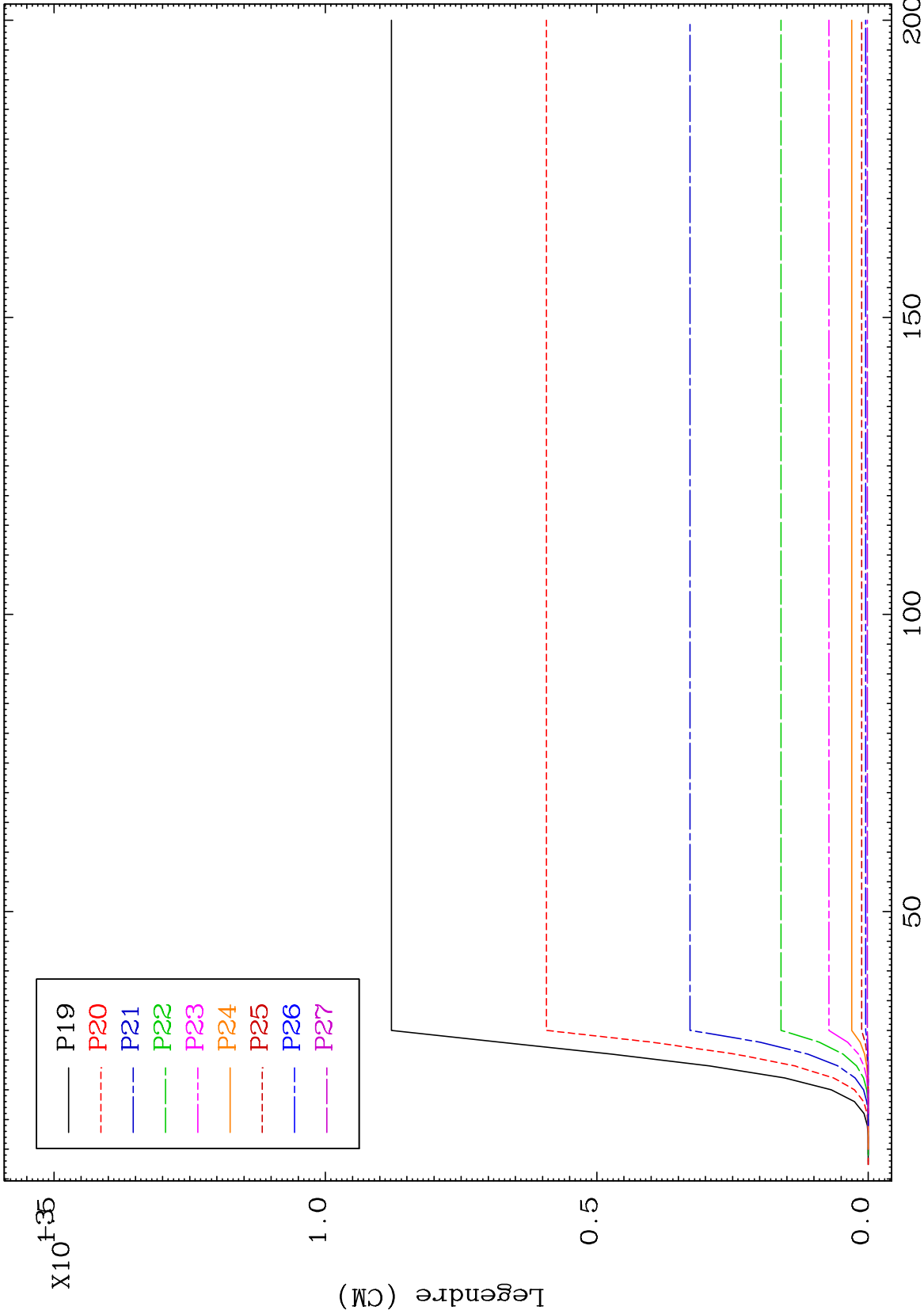
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



57

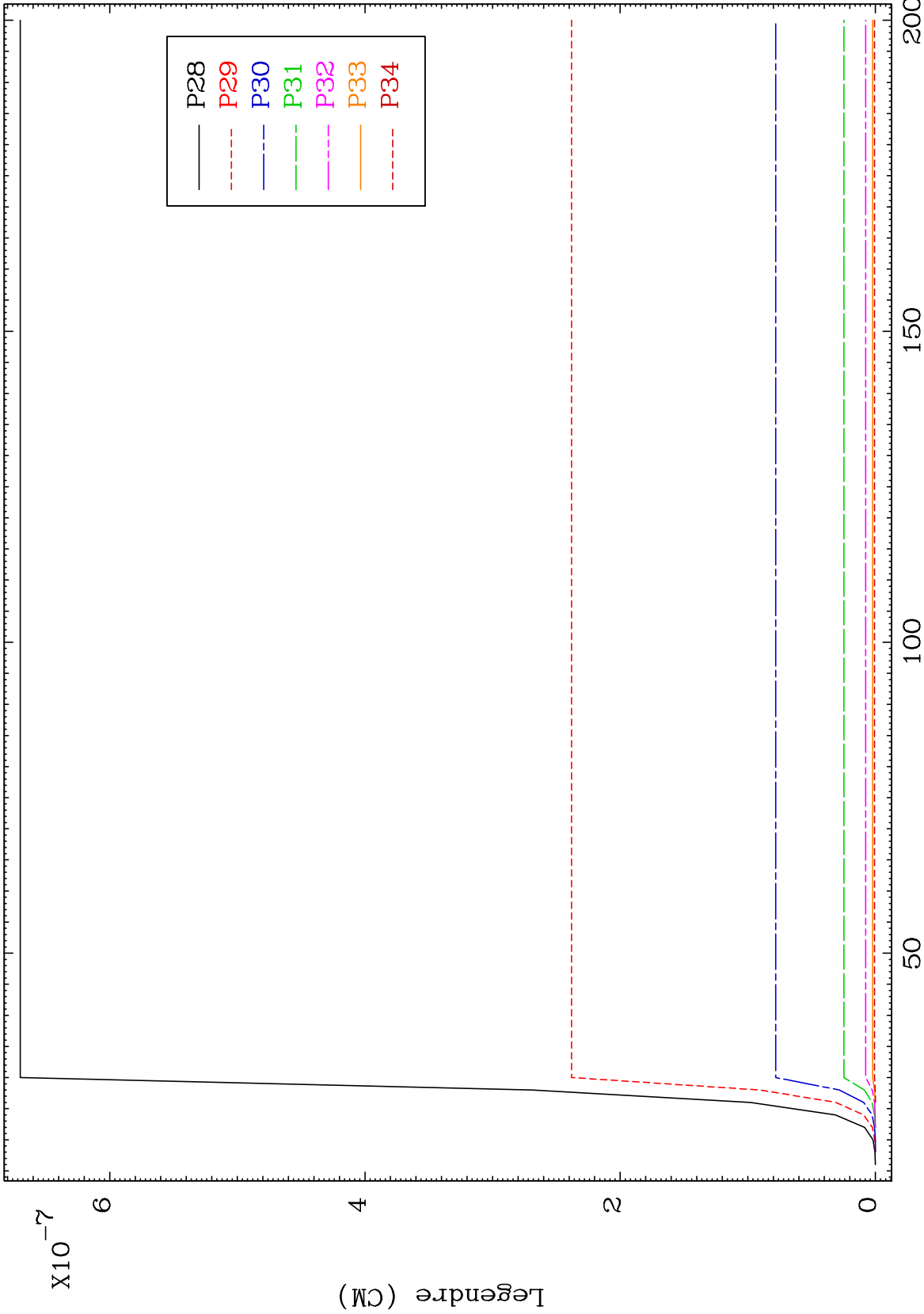
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



58

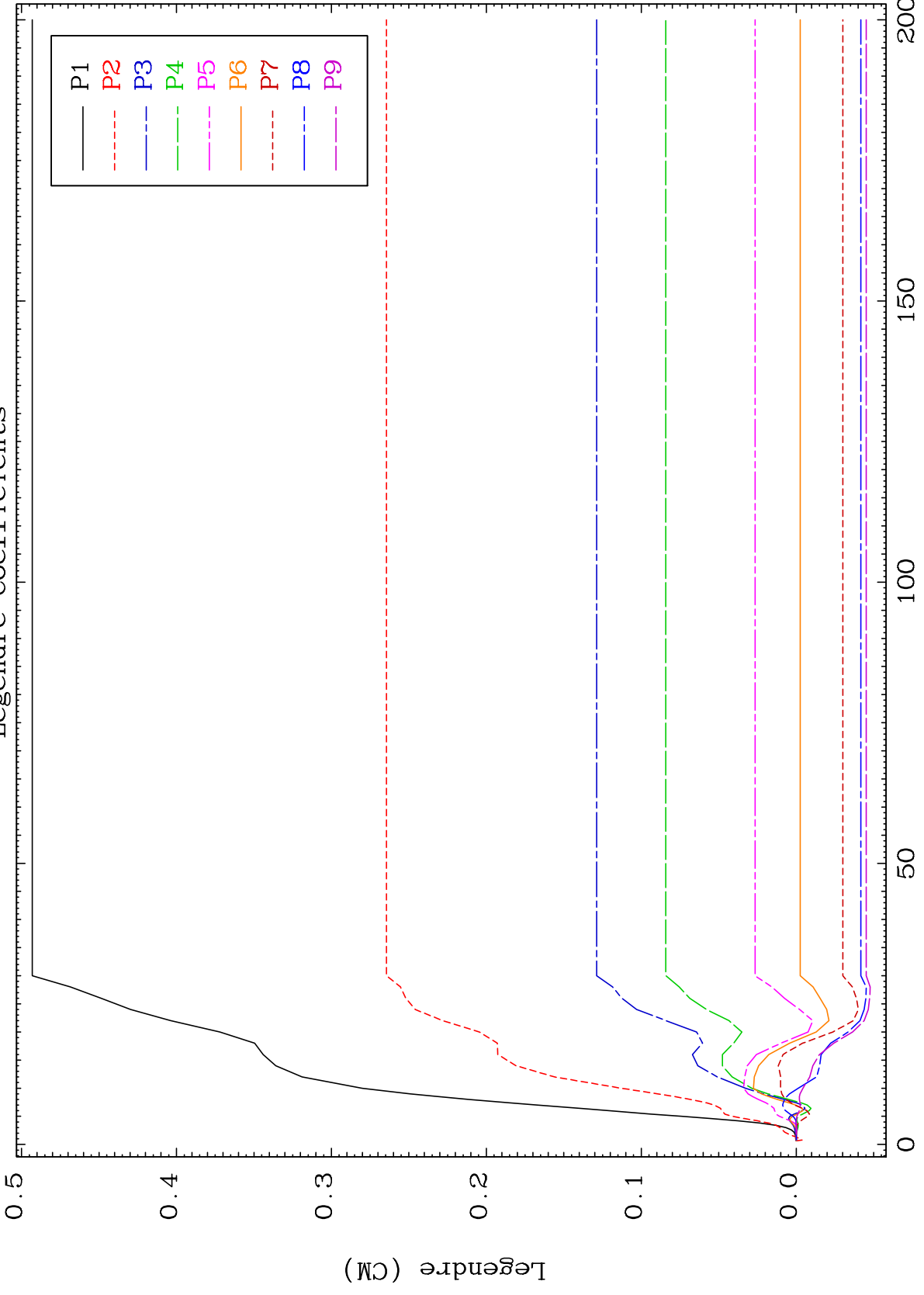
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



59

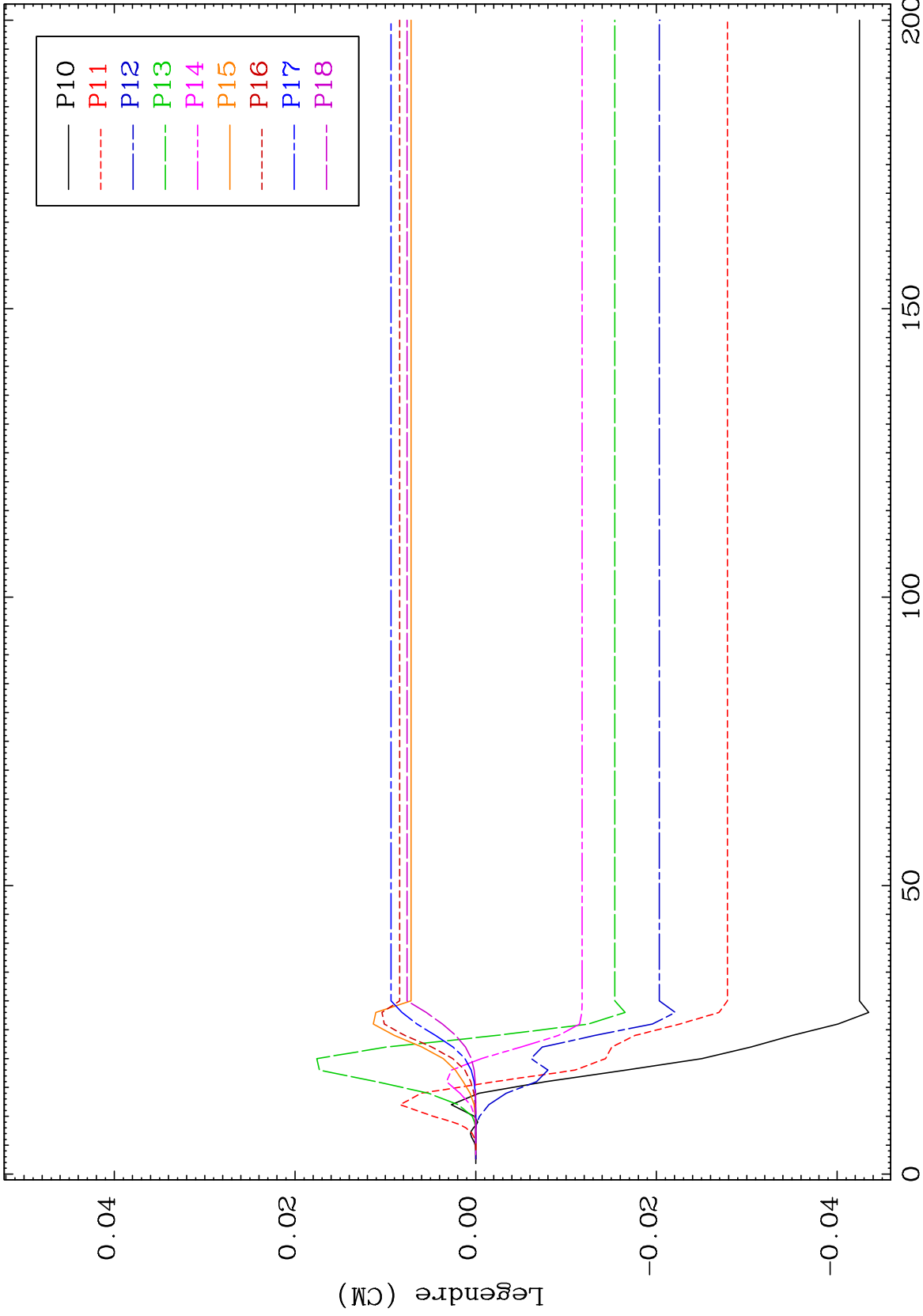
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



60

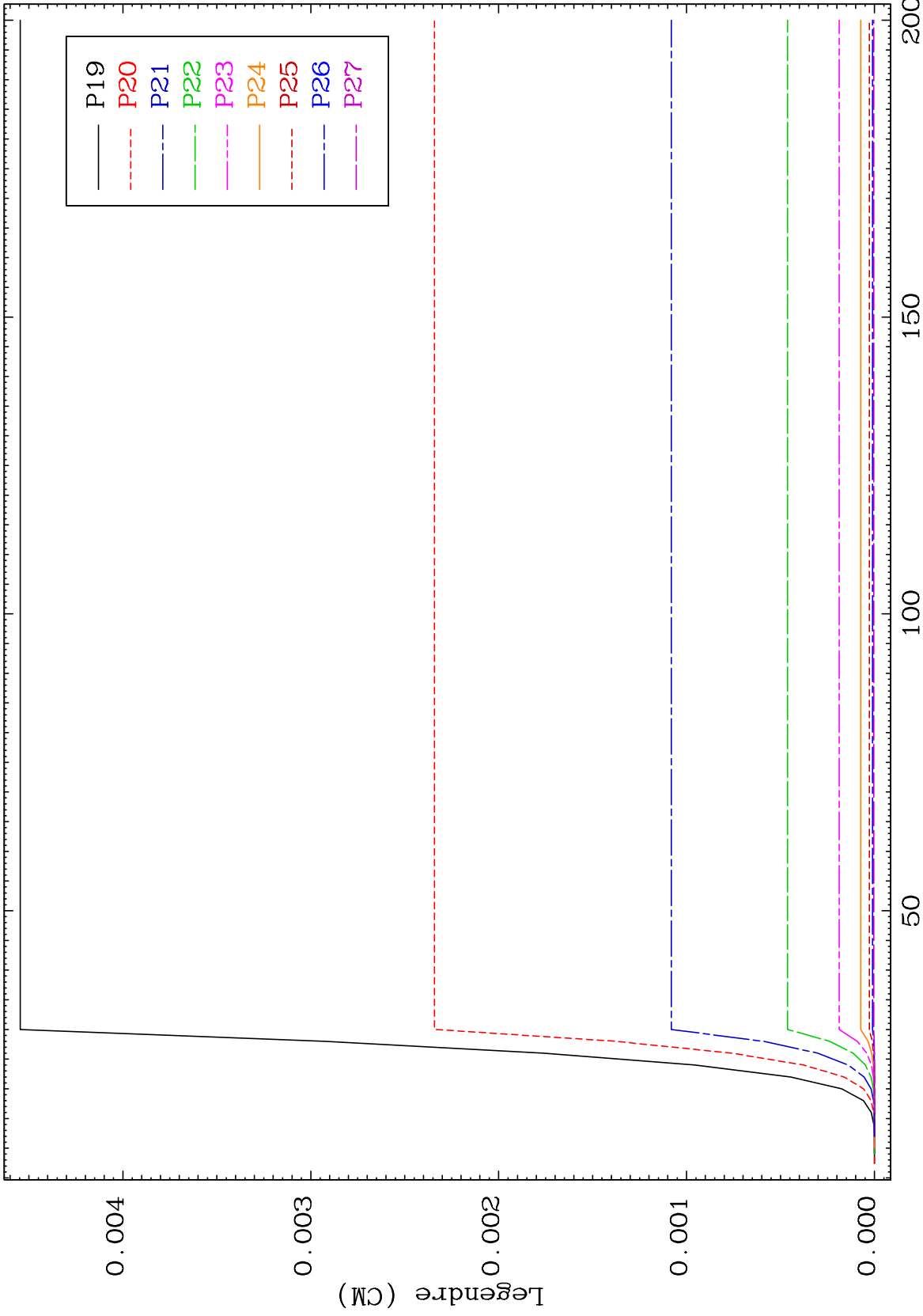
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



61

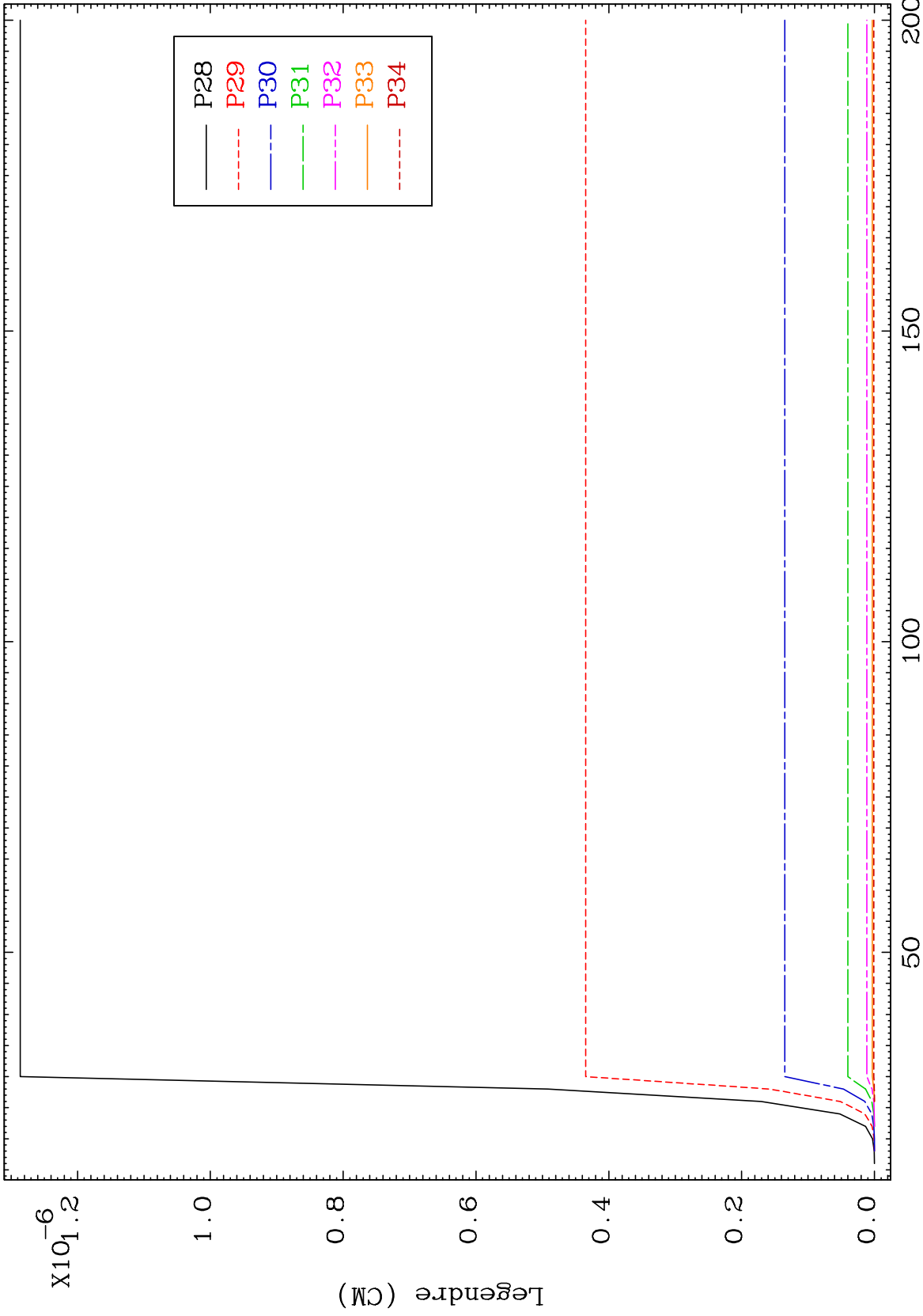
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



62

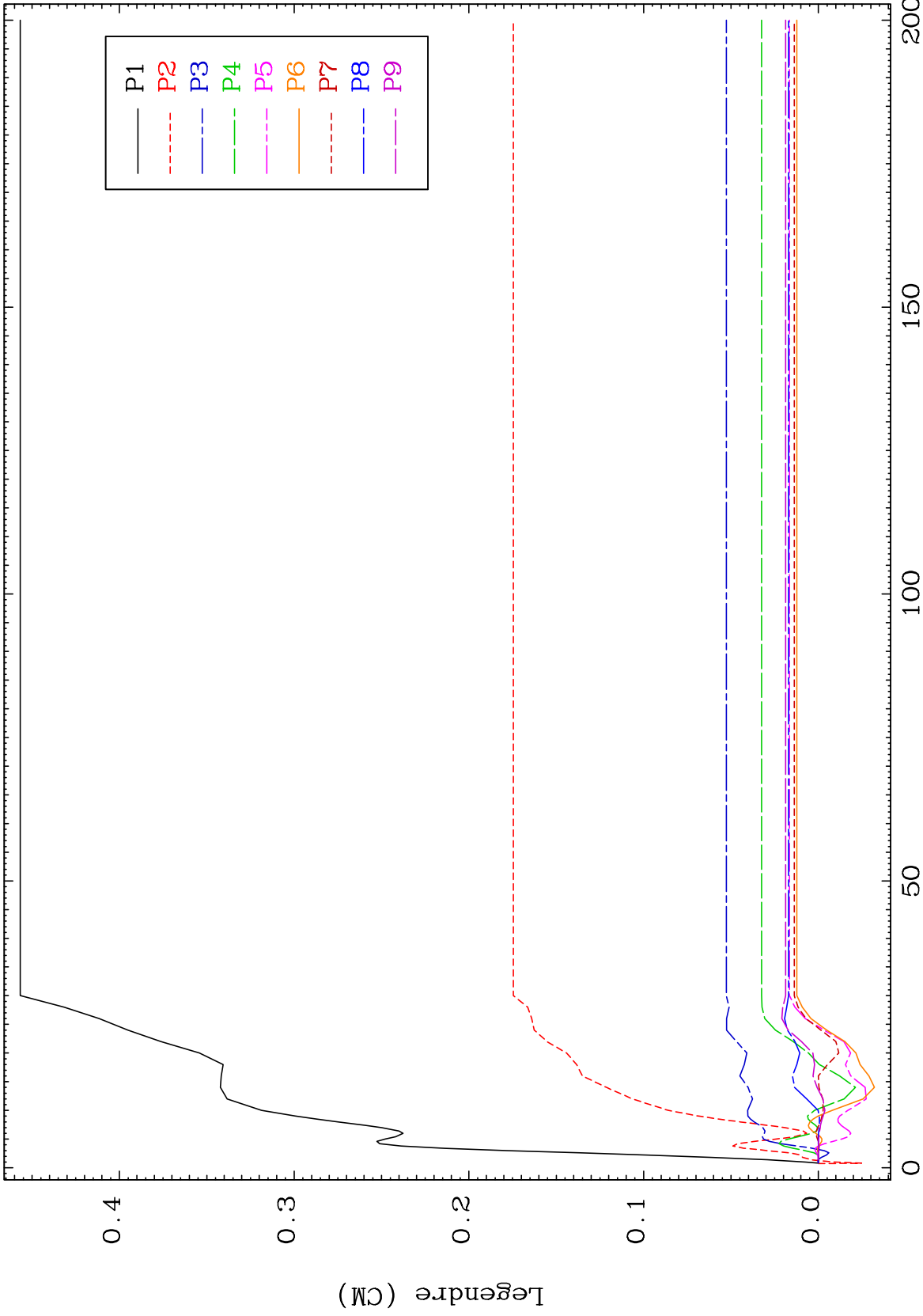
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



63

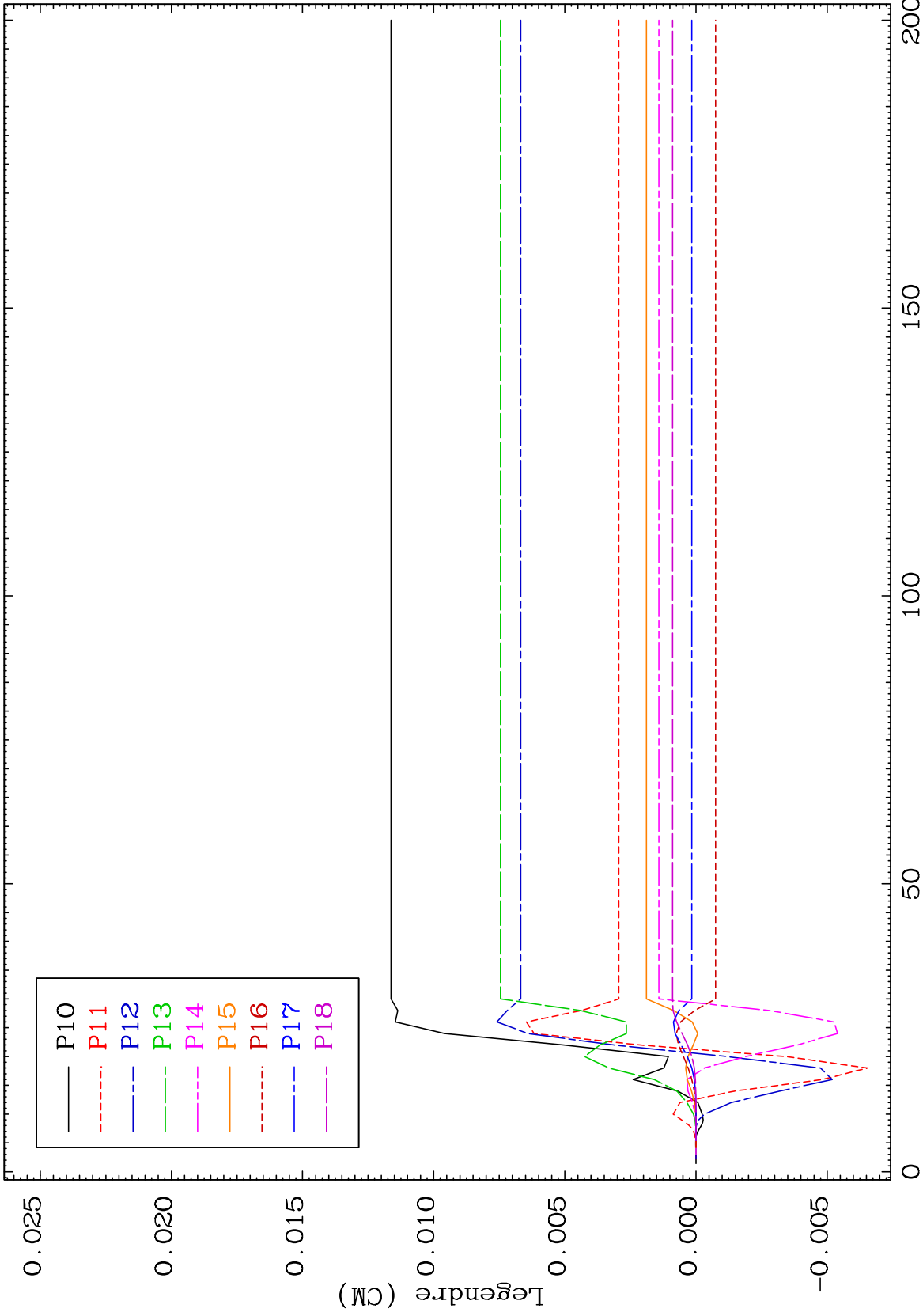
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



64

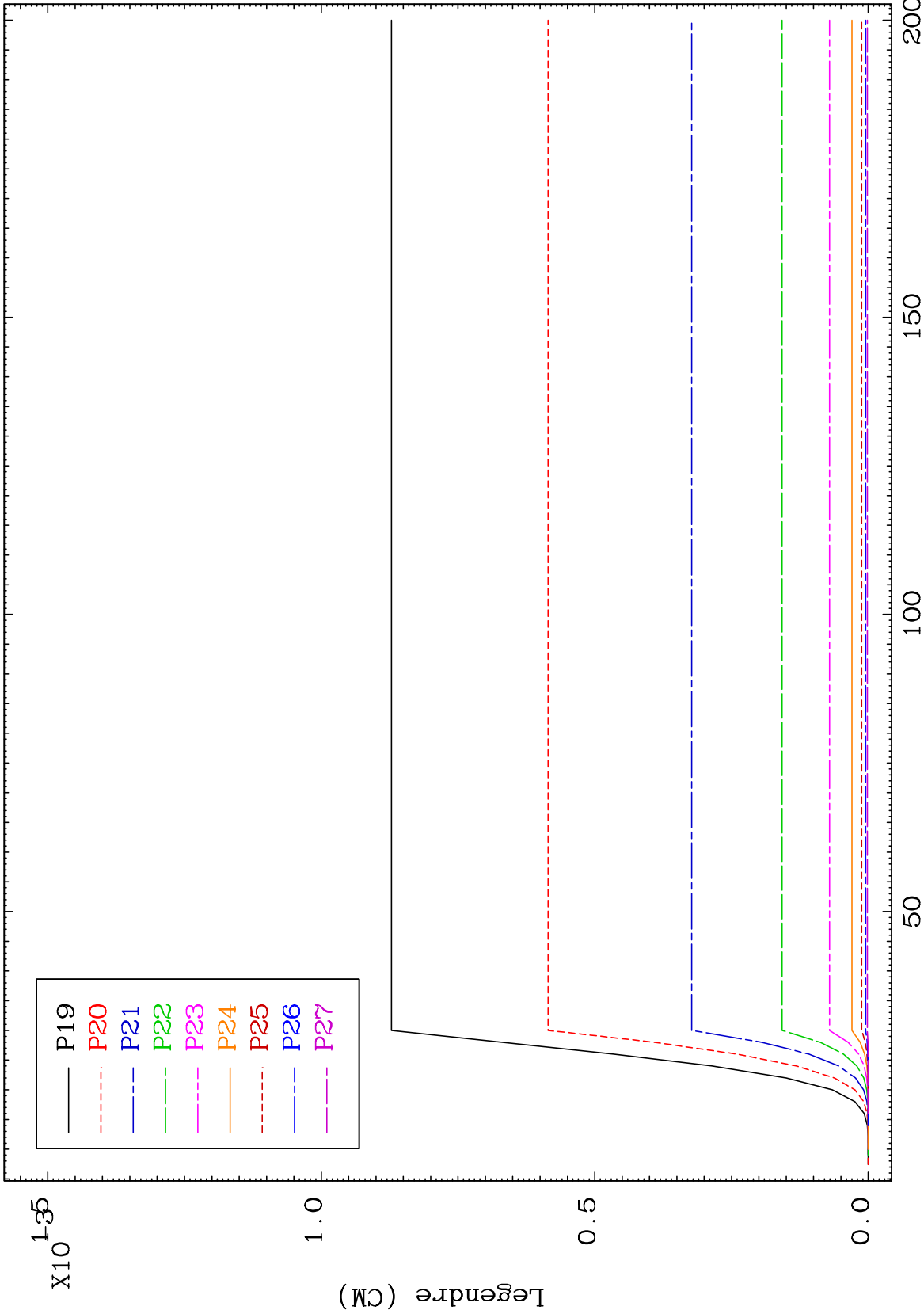
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



65

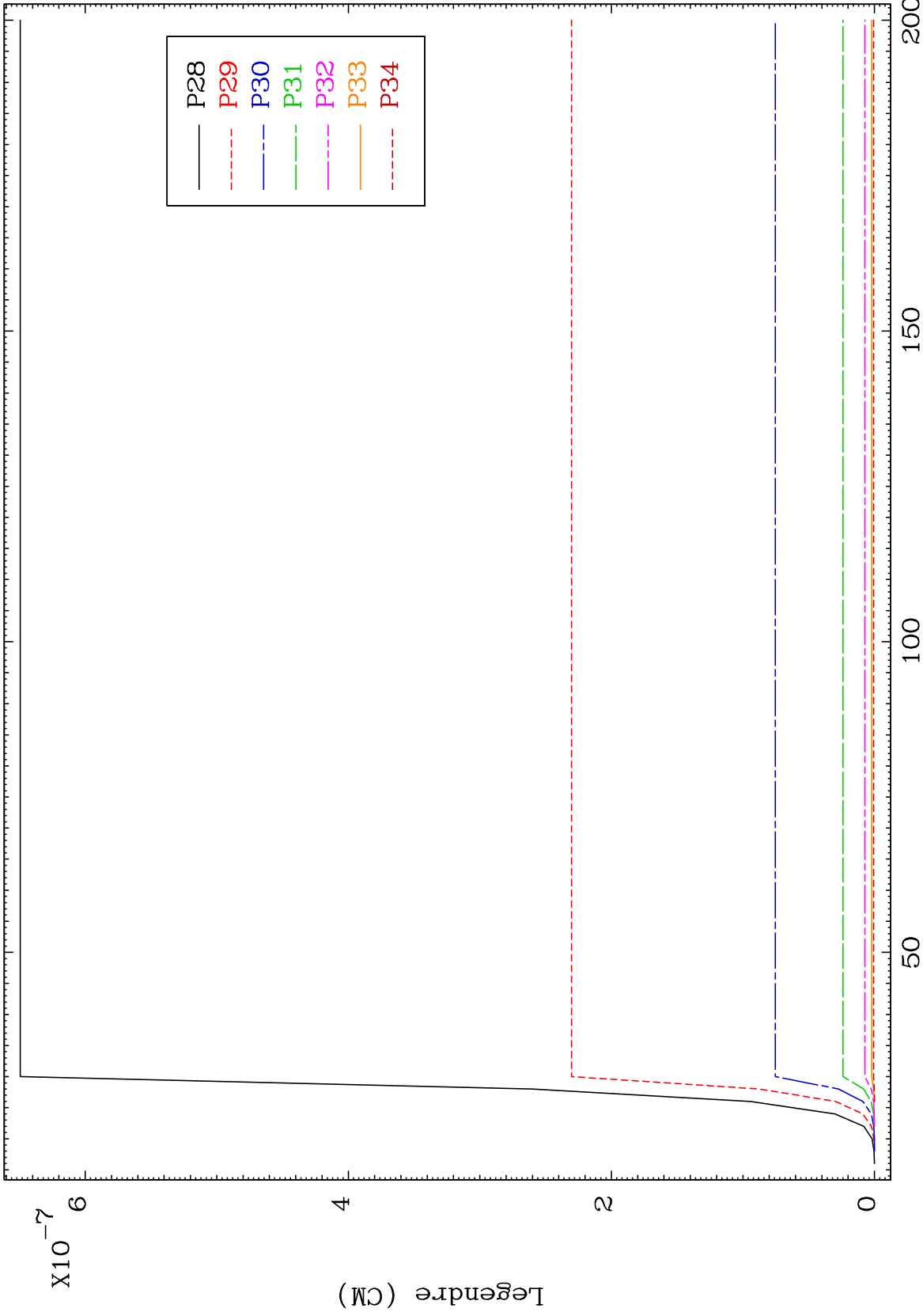
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



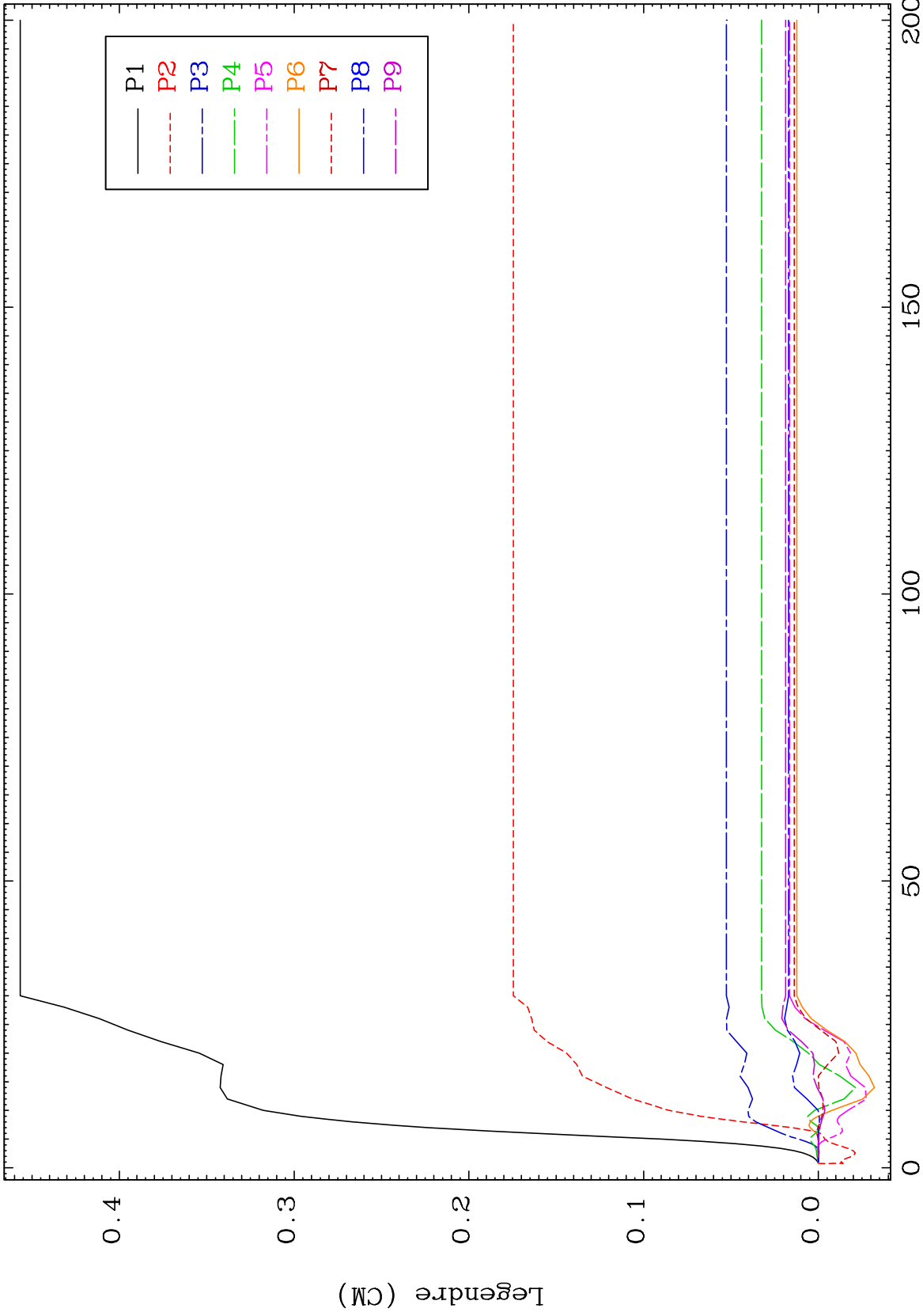
66

41-Nb-103

MAT 4155

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

41-Nb-103



67

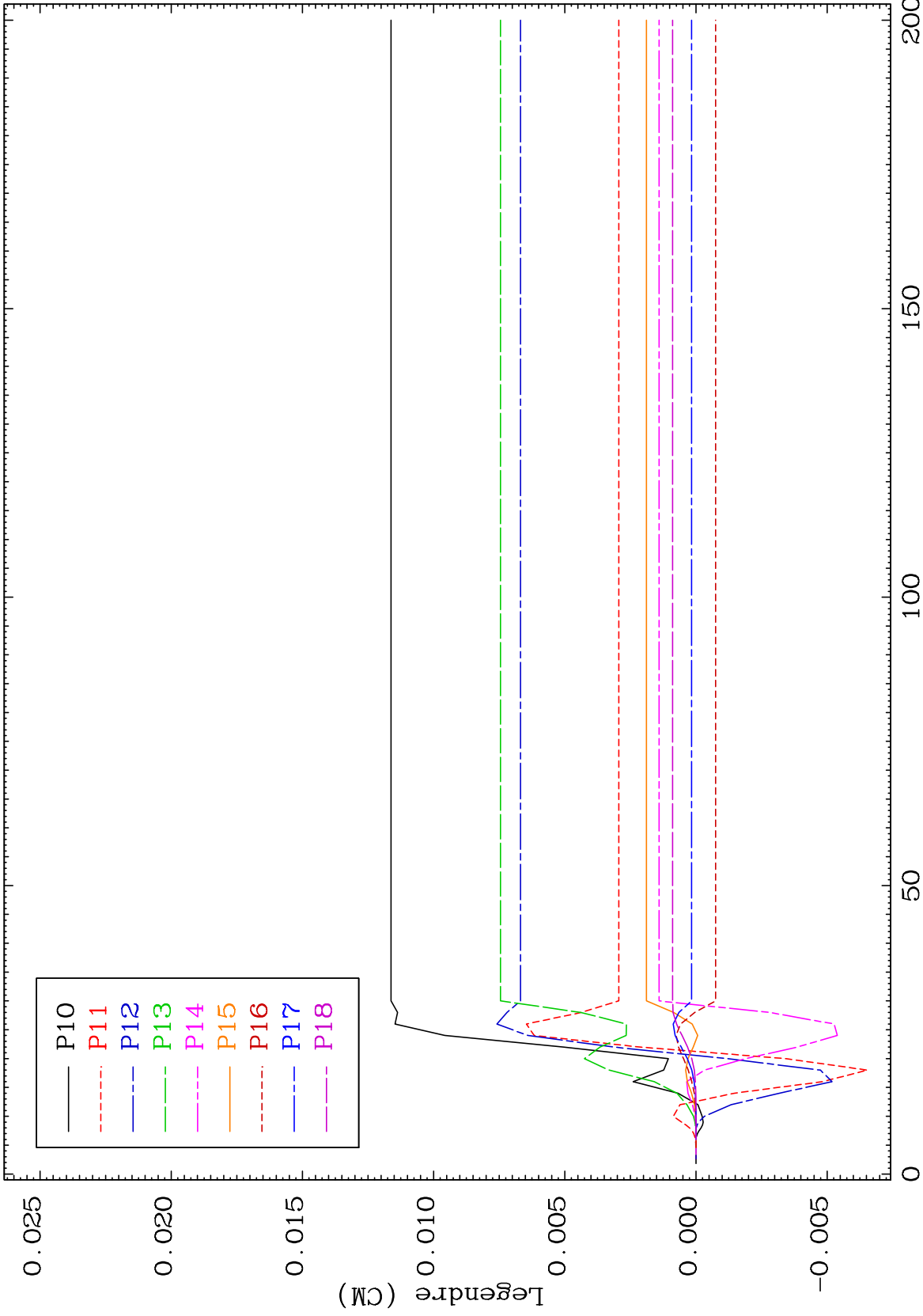
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



68

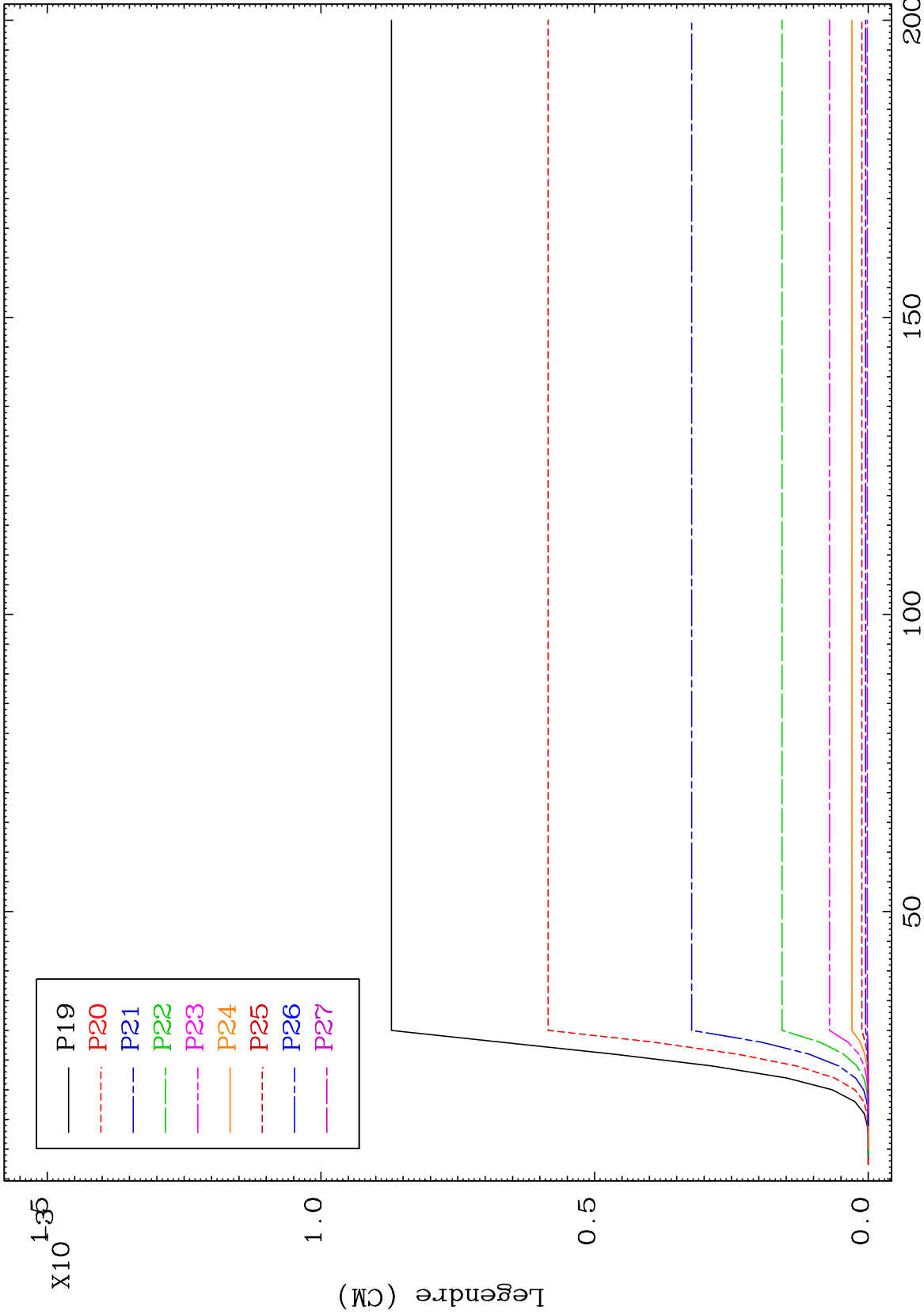
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



69

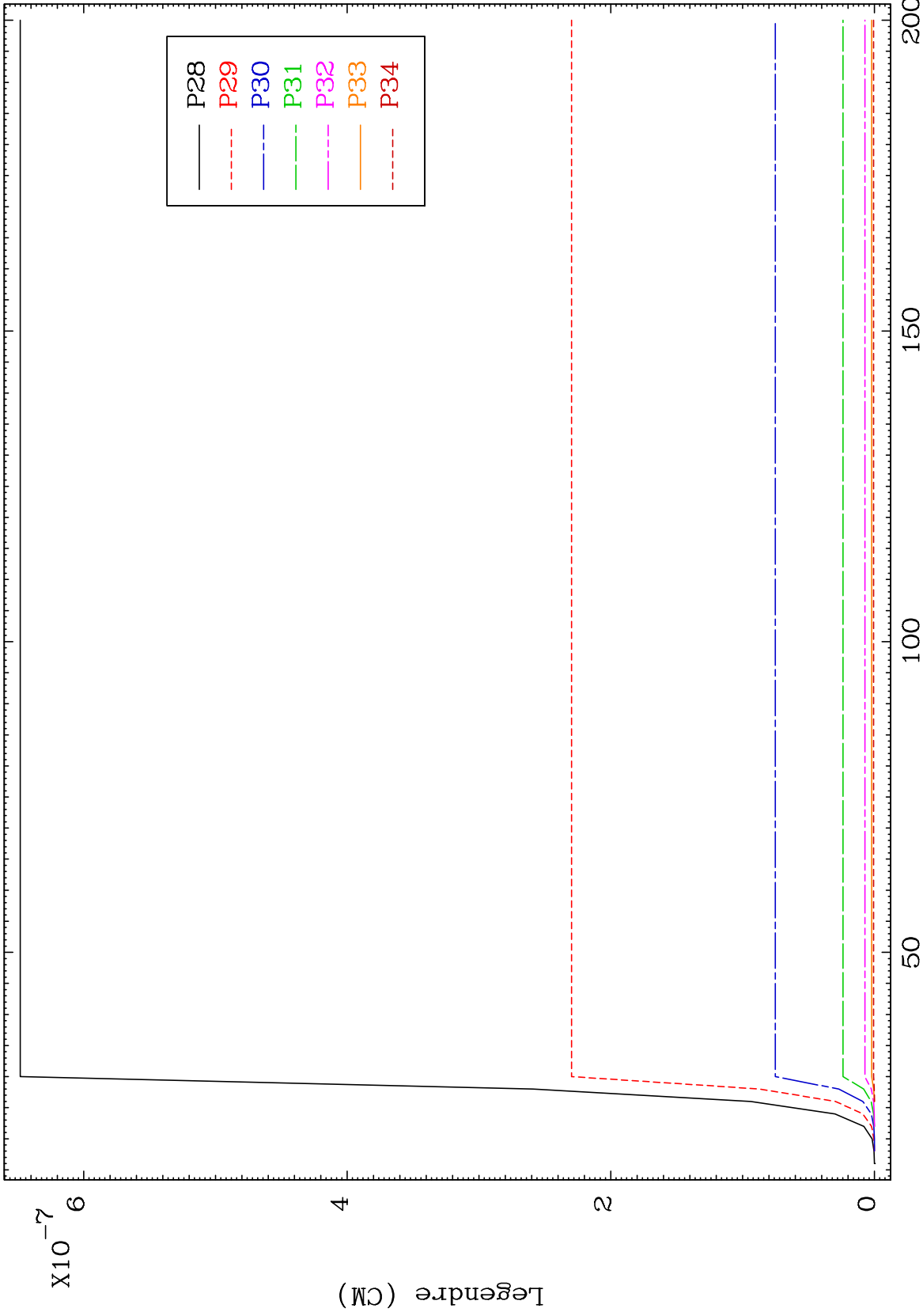
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



70

Incident Energy (MeV)

50

100

150

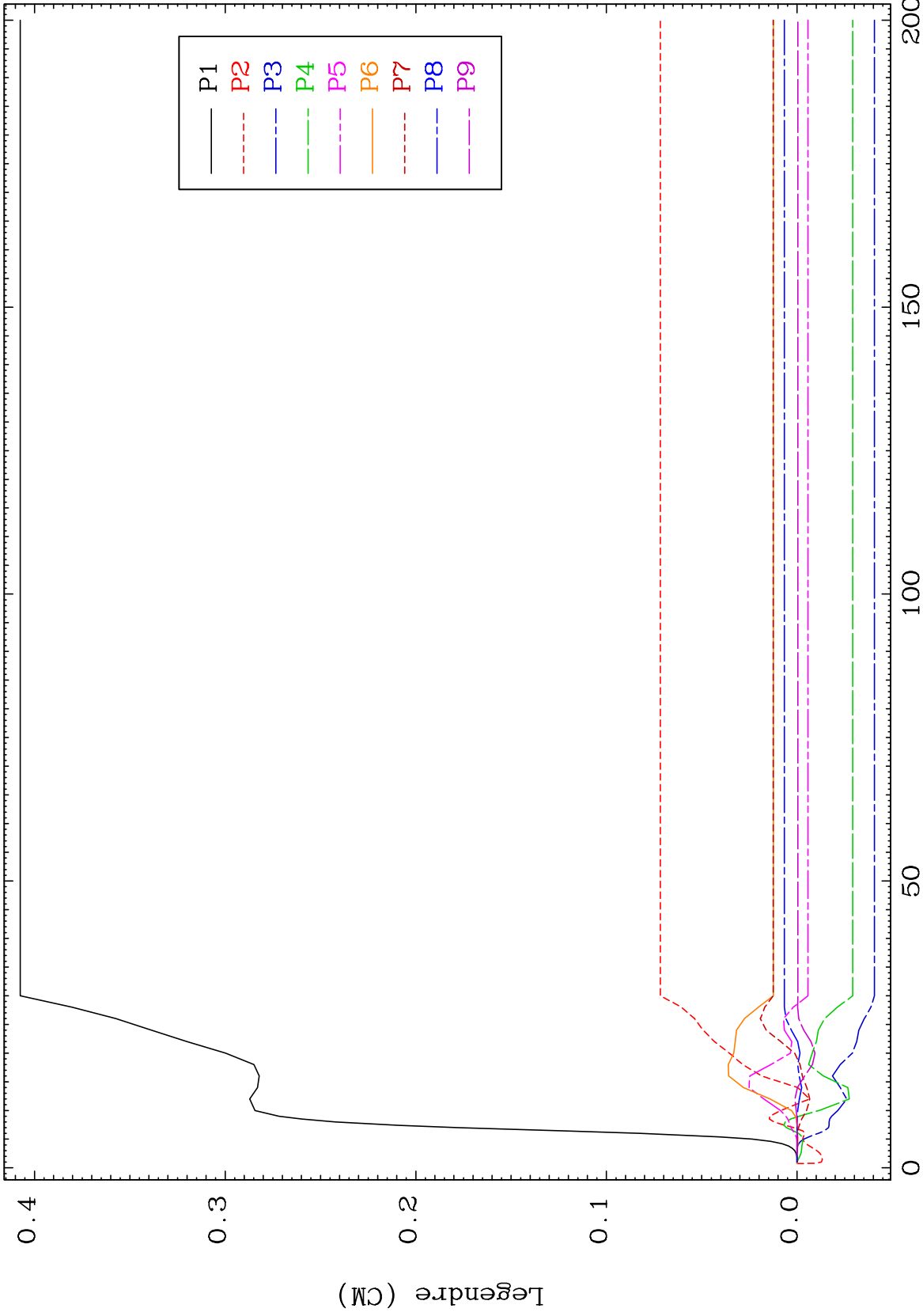
200

41-Nb-103

MAT 4155

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

41-Nb-103



71

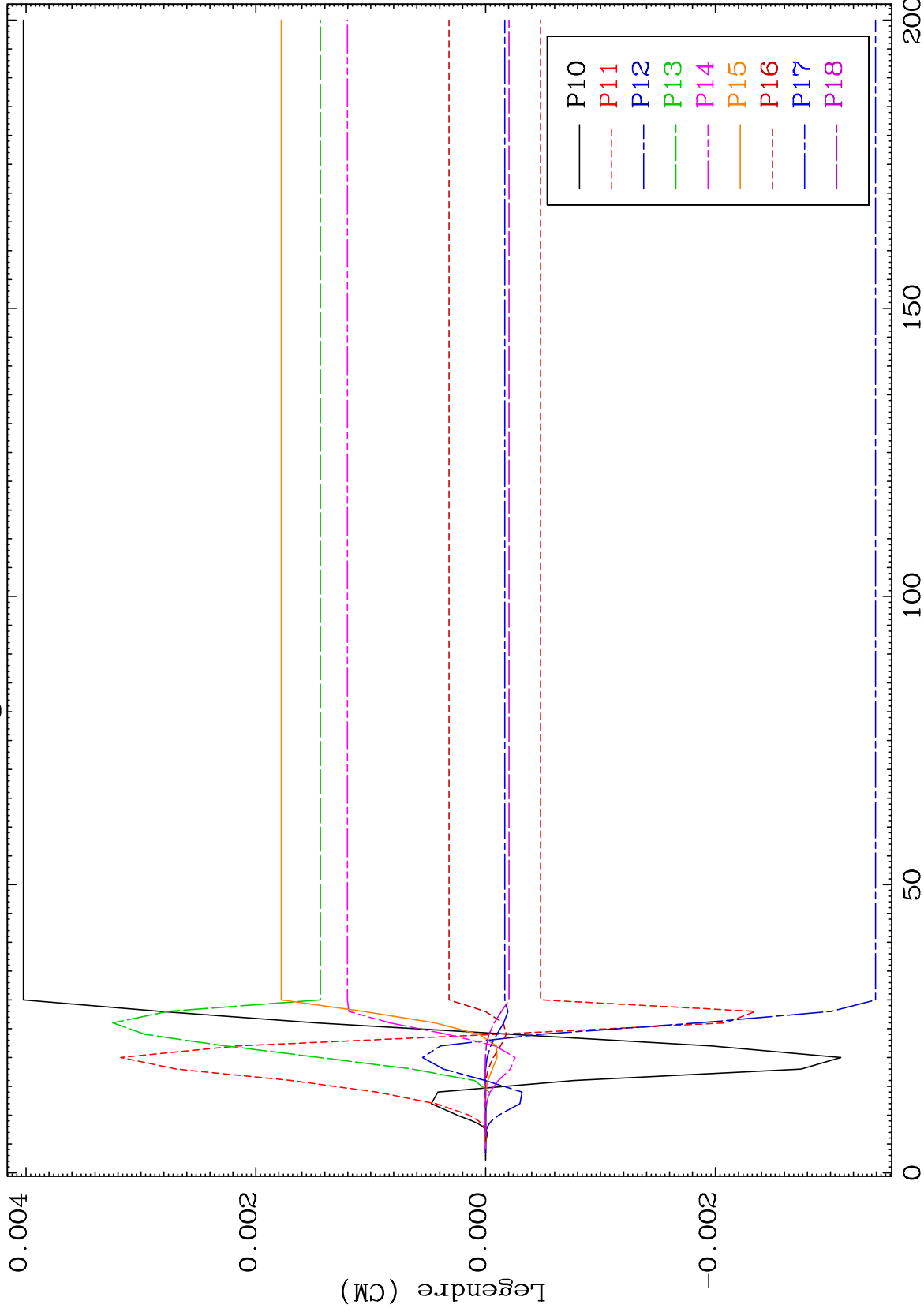
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



72

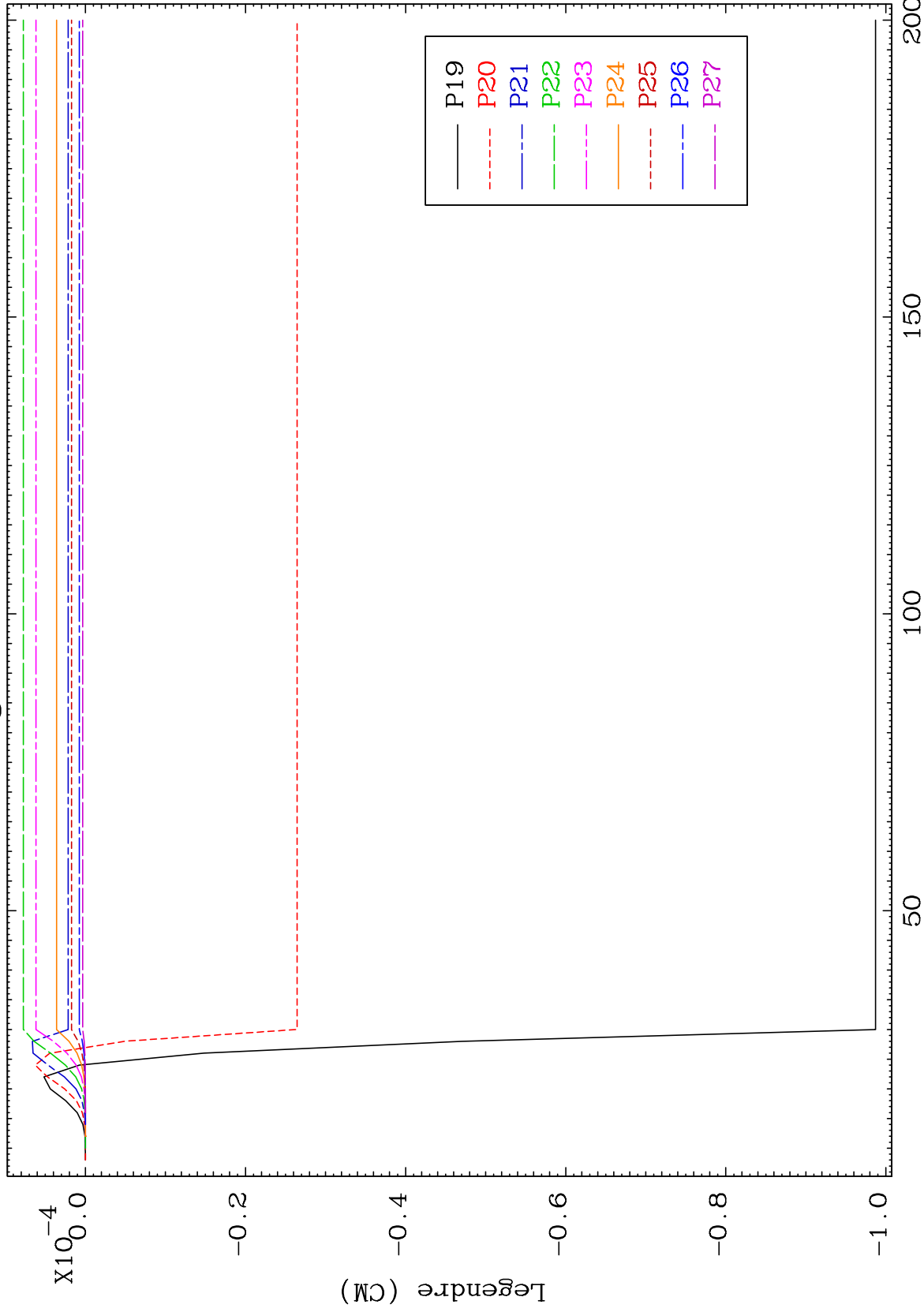
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



73

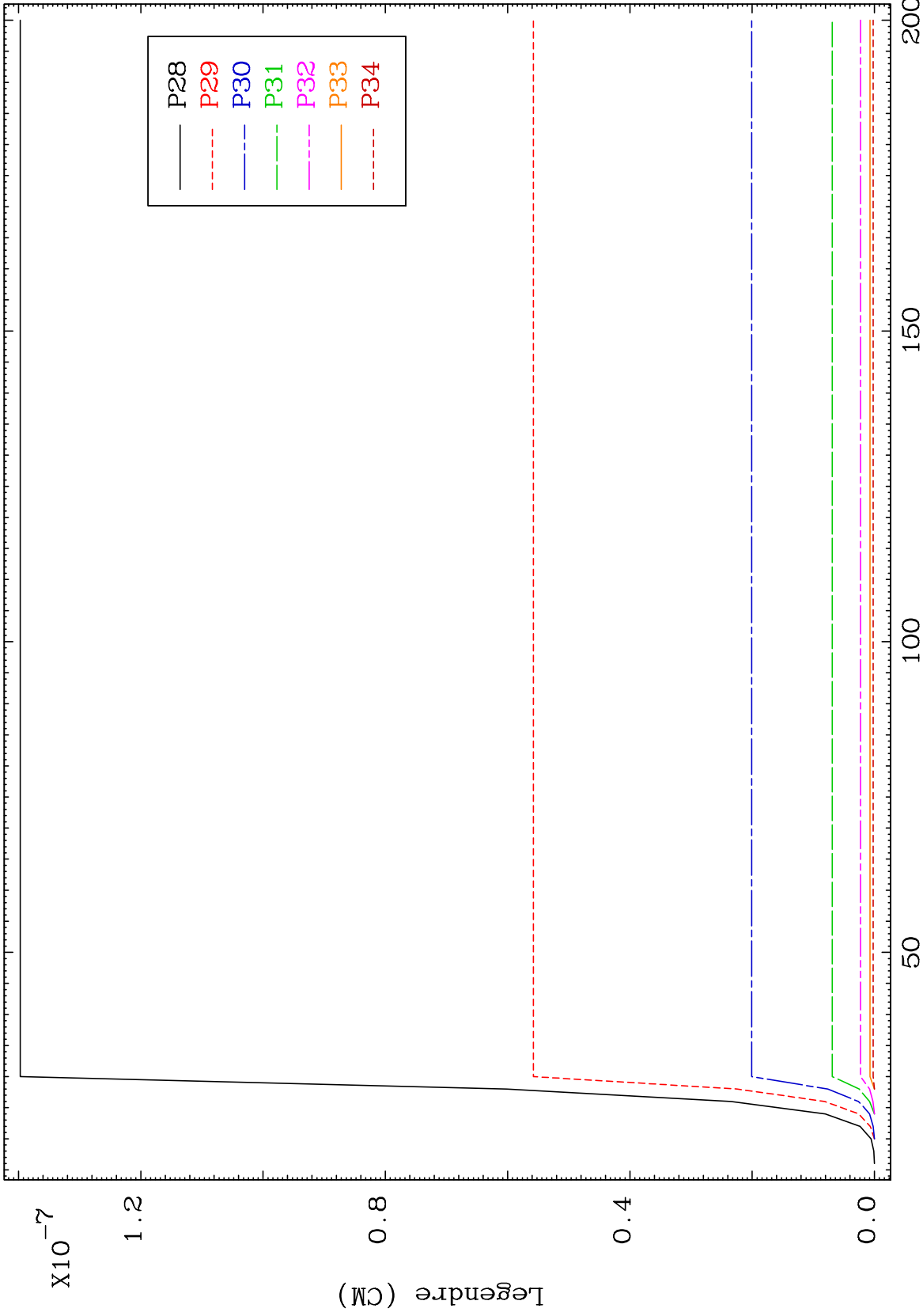
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



74

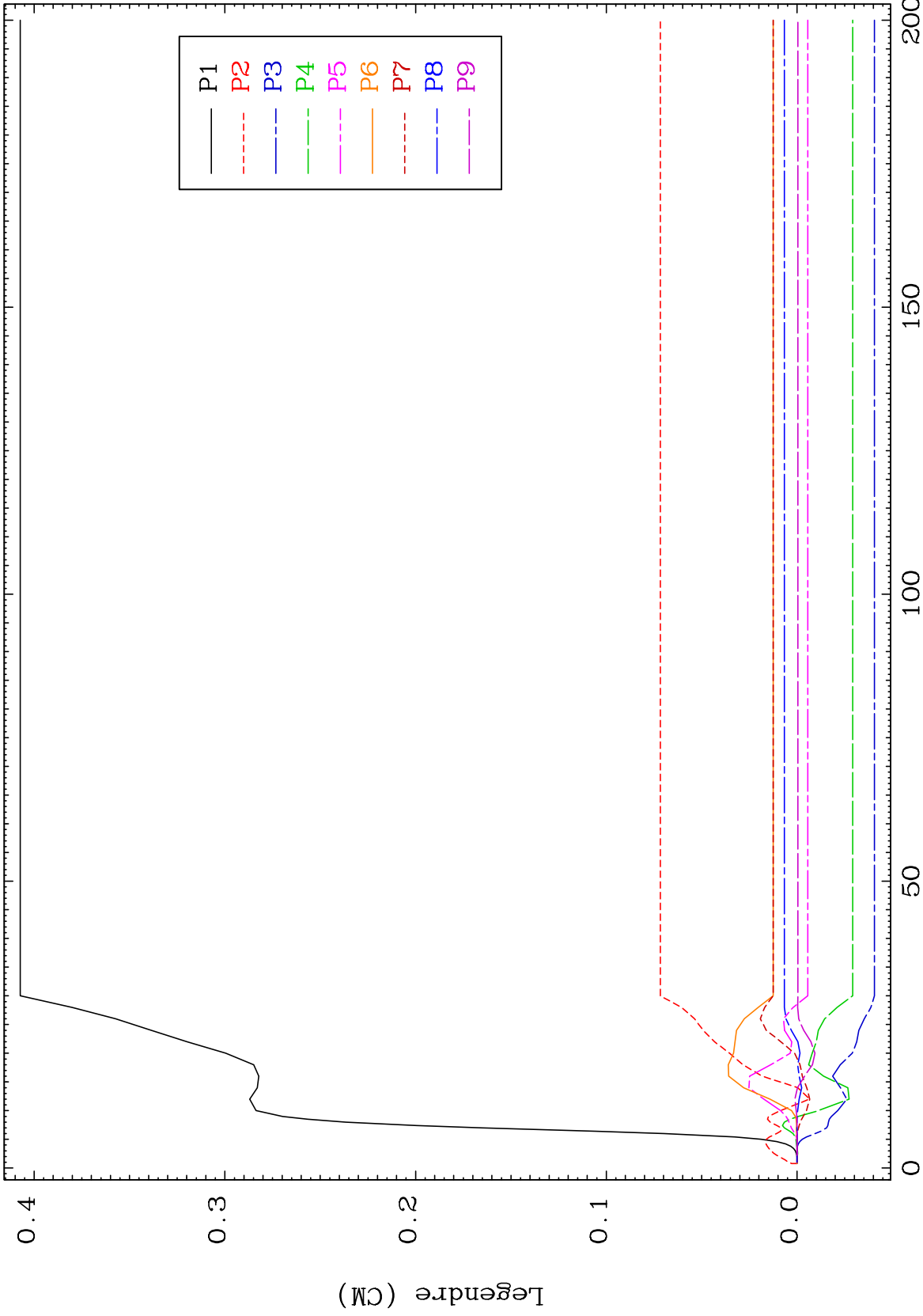
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



75

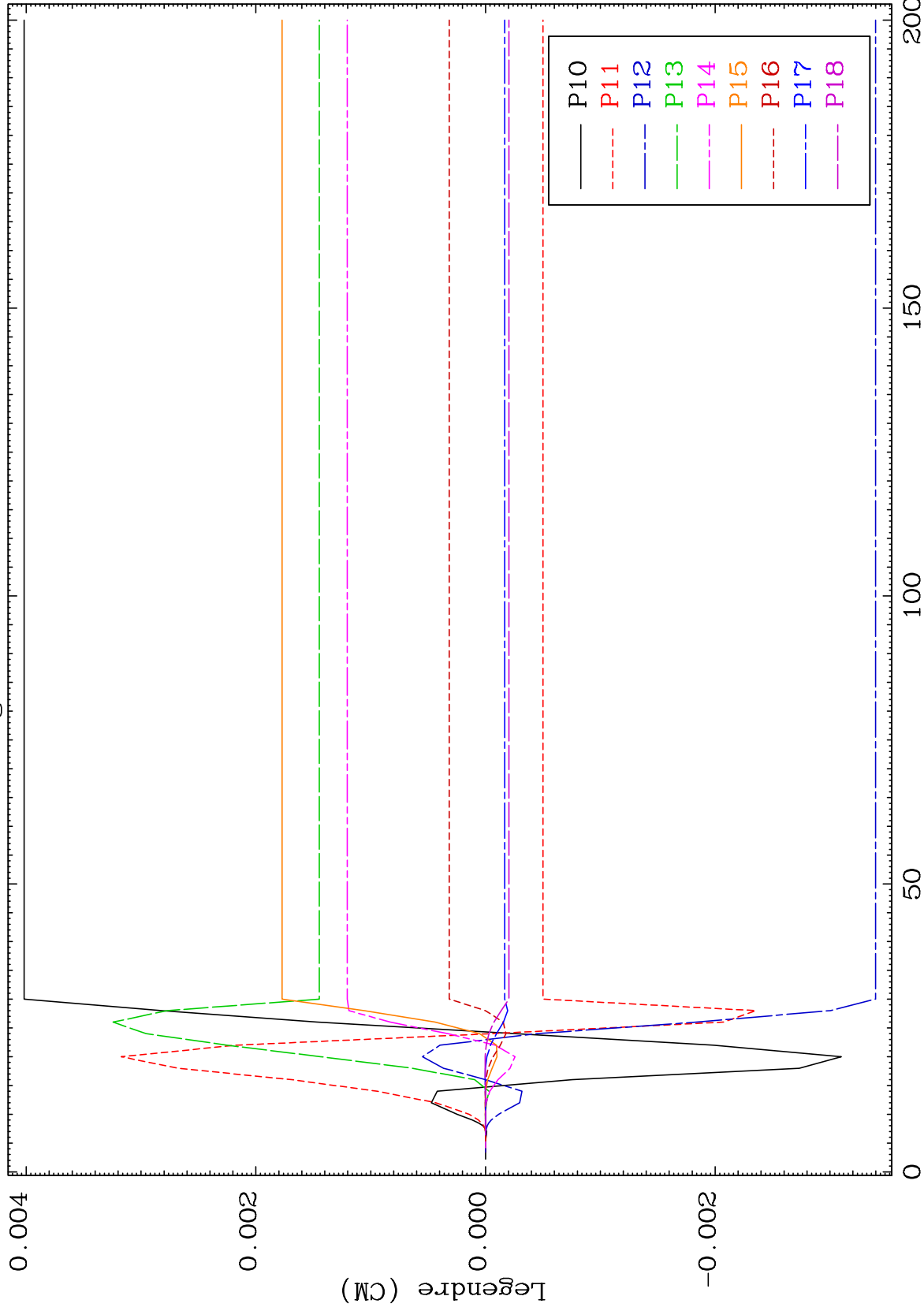
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



76

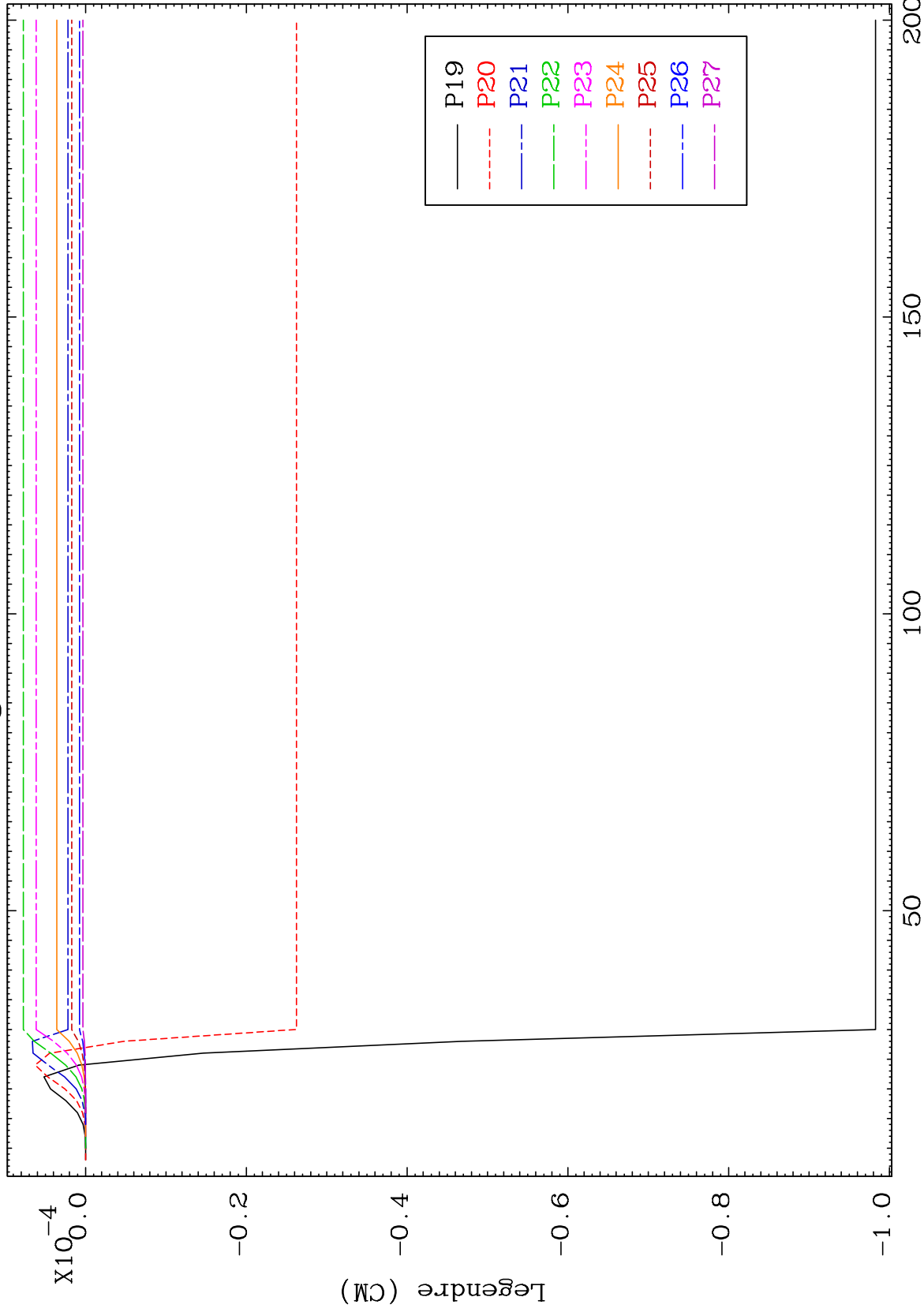
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



77

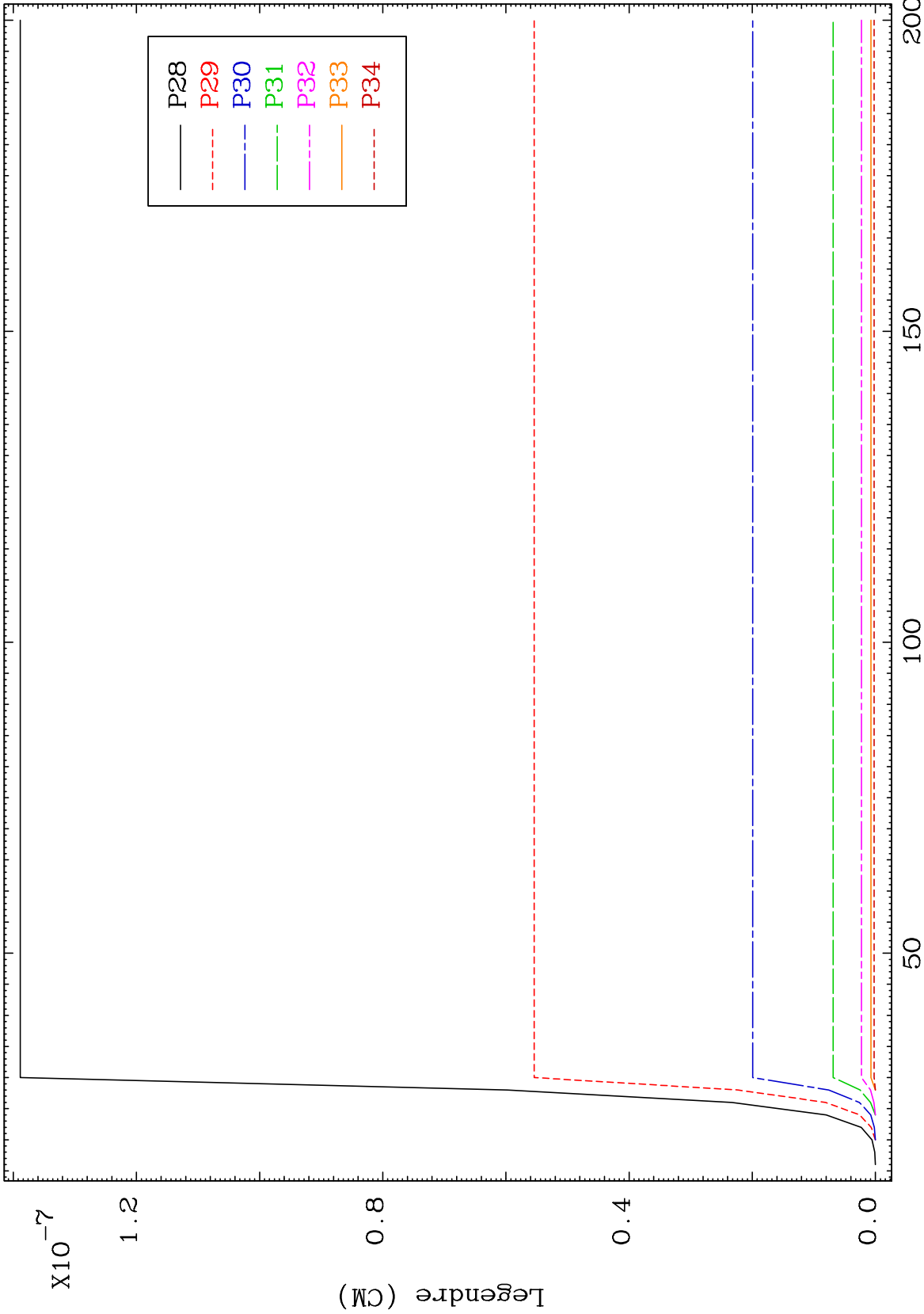
Incident Energy (MeV)

41-Nb-103

MAT 4155

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

41-Nb-103



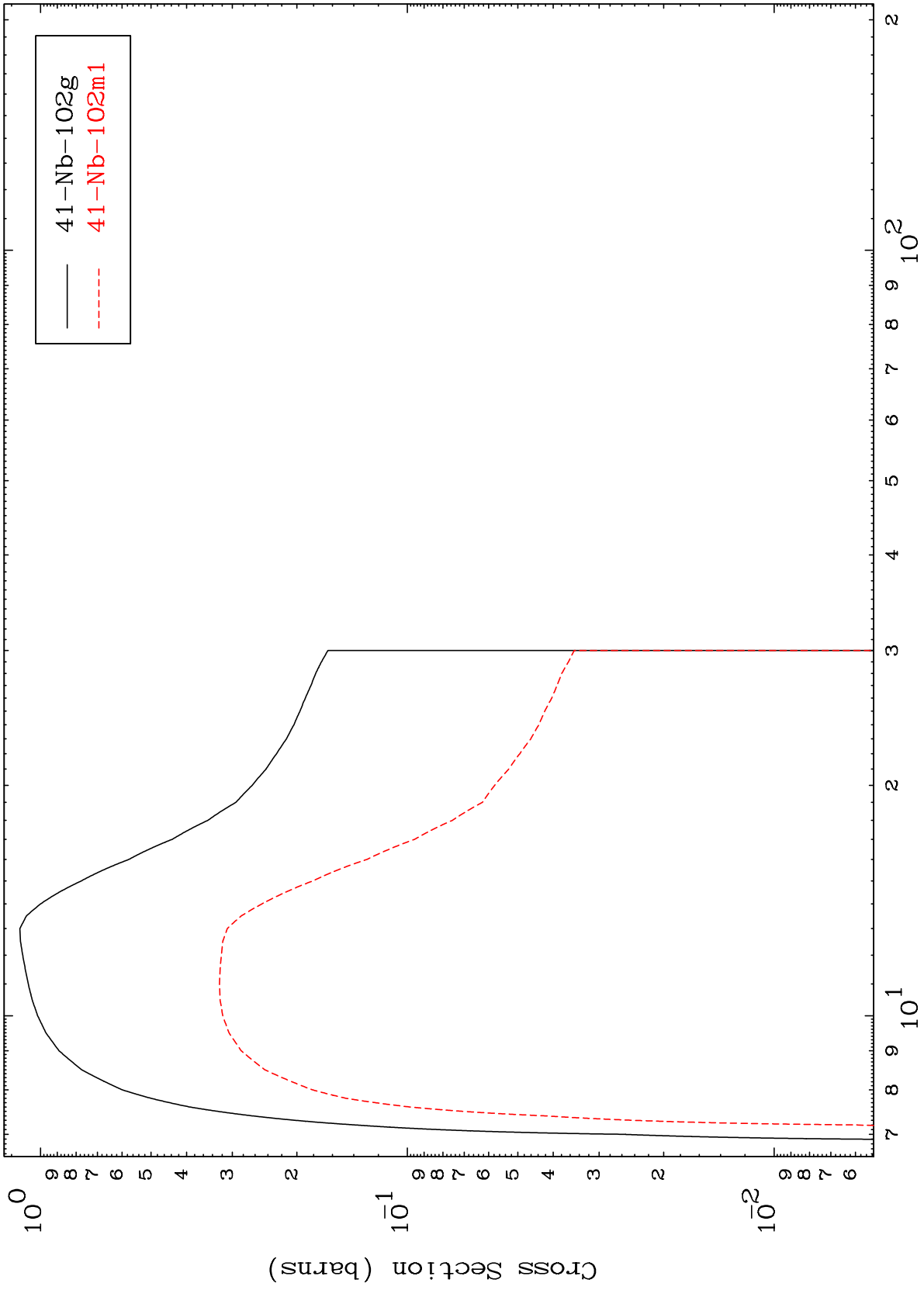
78

41-Nb-103

MAT 4155

41-Nb-103

(n,2n)
Radionuclide Production Cross Section



79

Incident Energy (MeV)

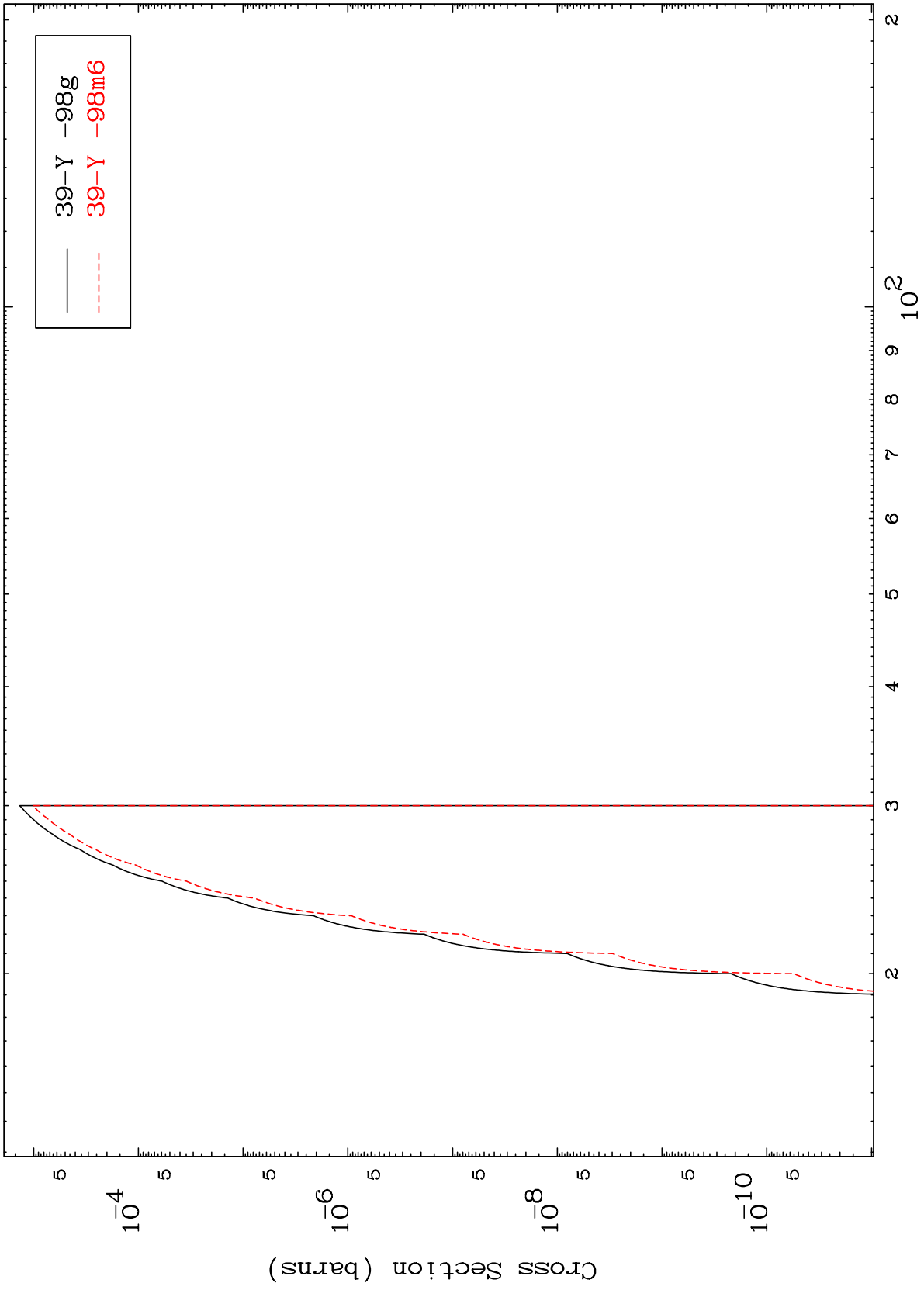
41-Nb-103

MAT 4155

(n,2n) α

41-Nb-103

Radionuclide Production Cross Section



80

Incident Energy (MeV)

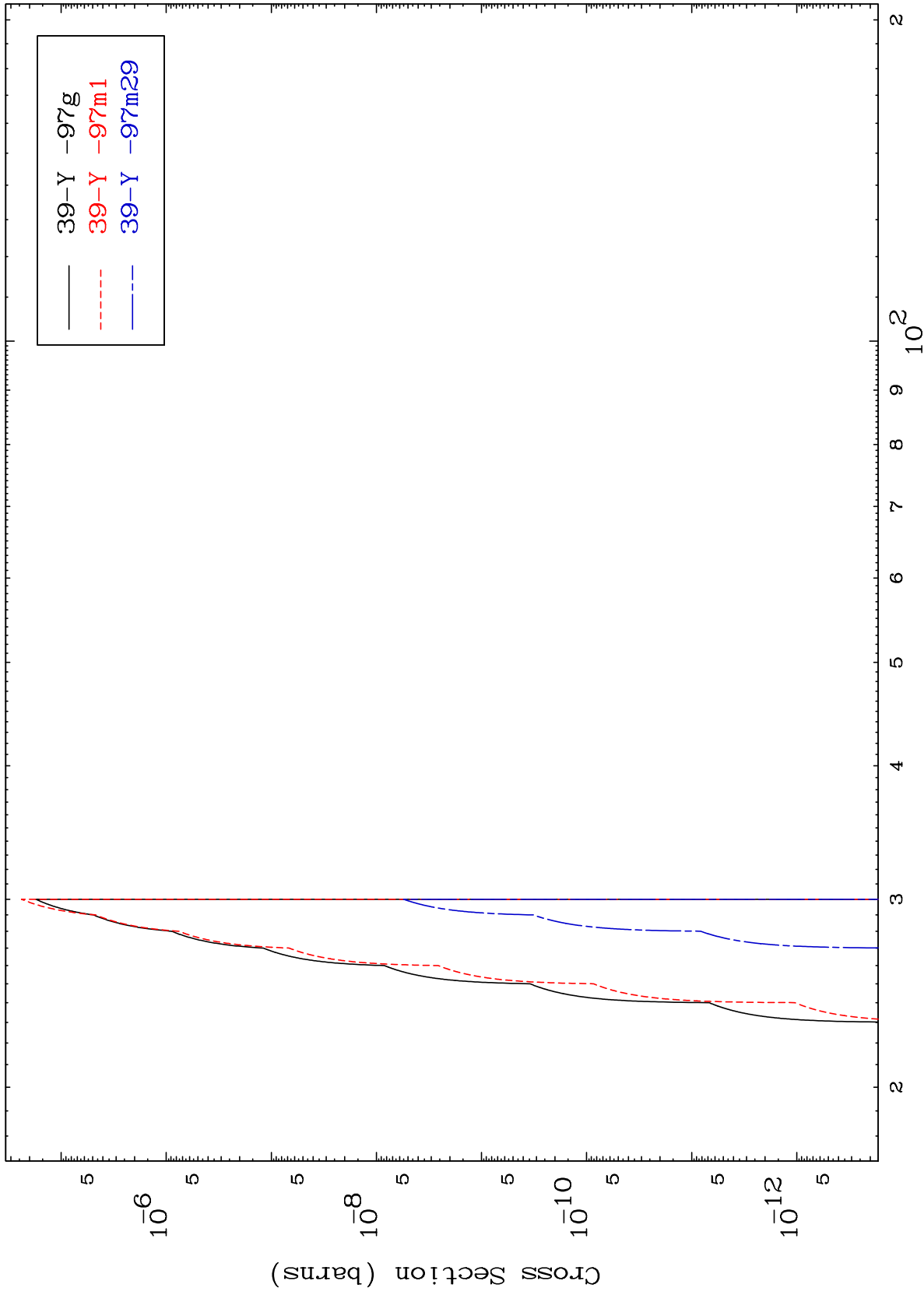
41-Nb-103

MAT 4155

(n,3n) α

41-Nb-103

Radionuclide Production Cross Section

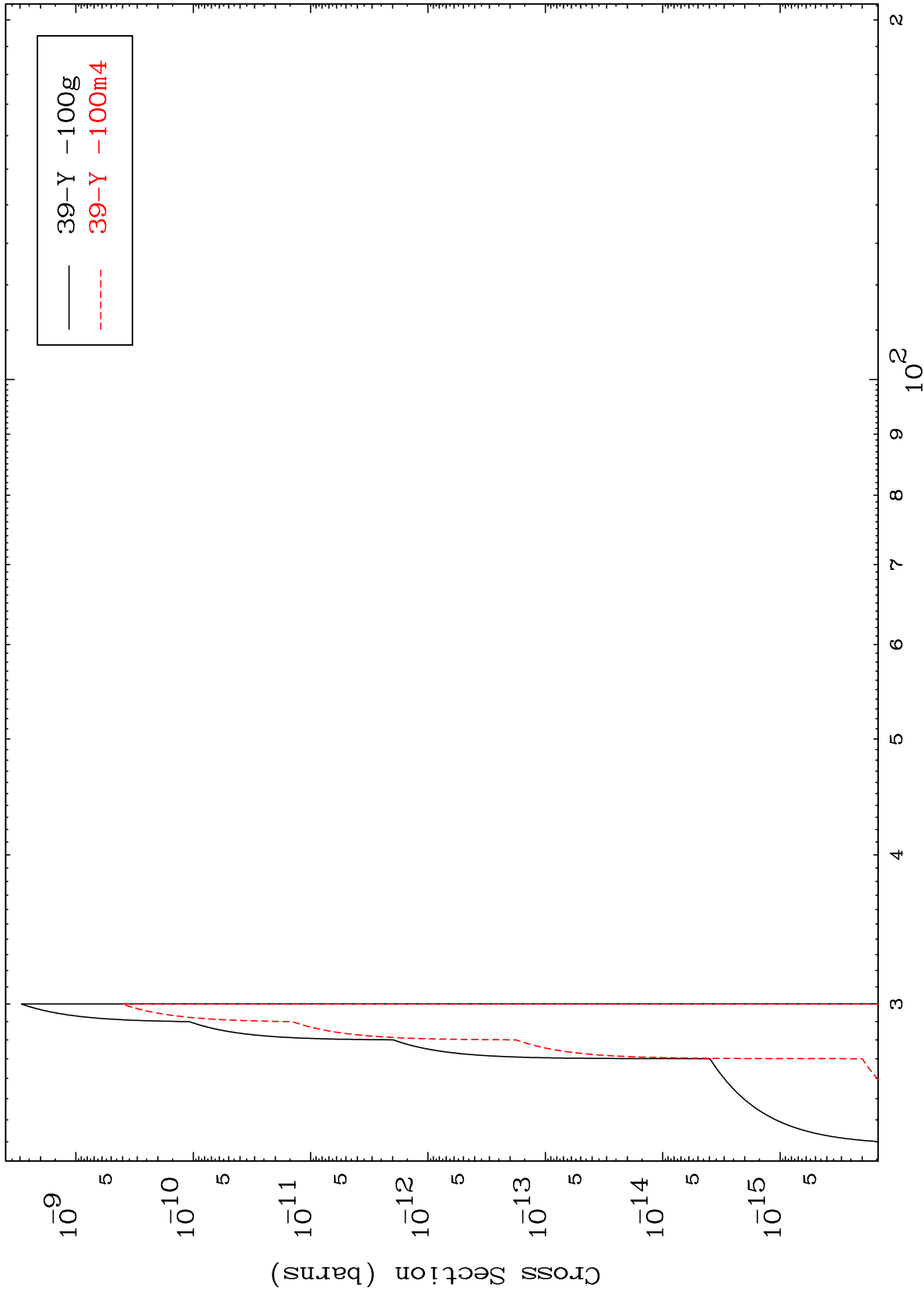


81

Incident Energy (MeV)

41-Nb-103

Radionuclide Production Cross Section

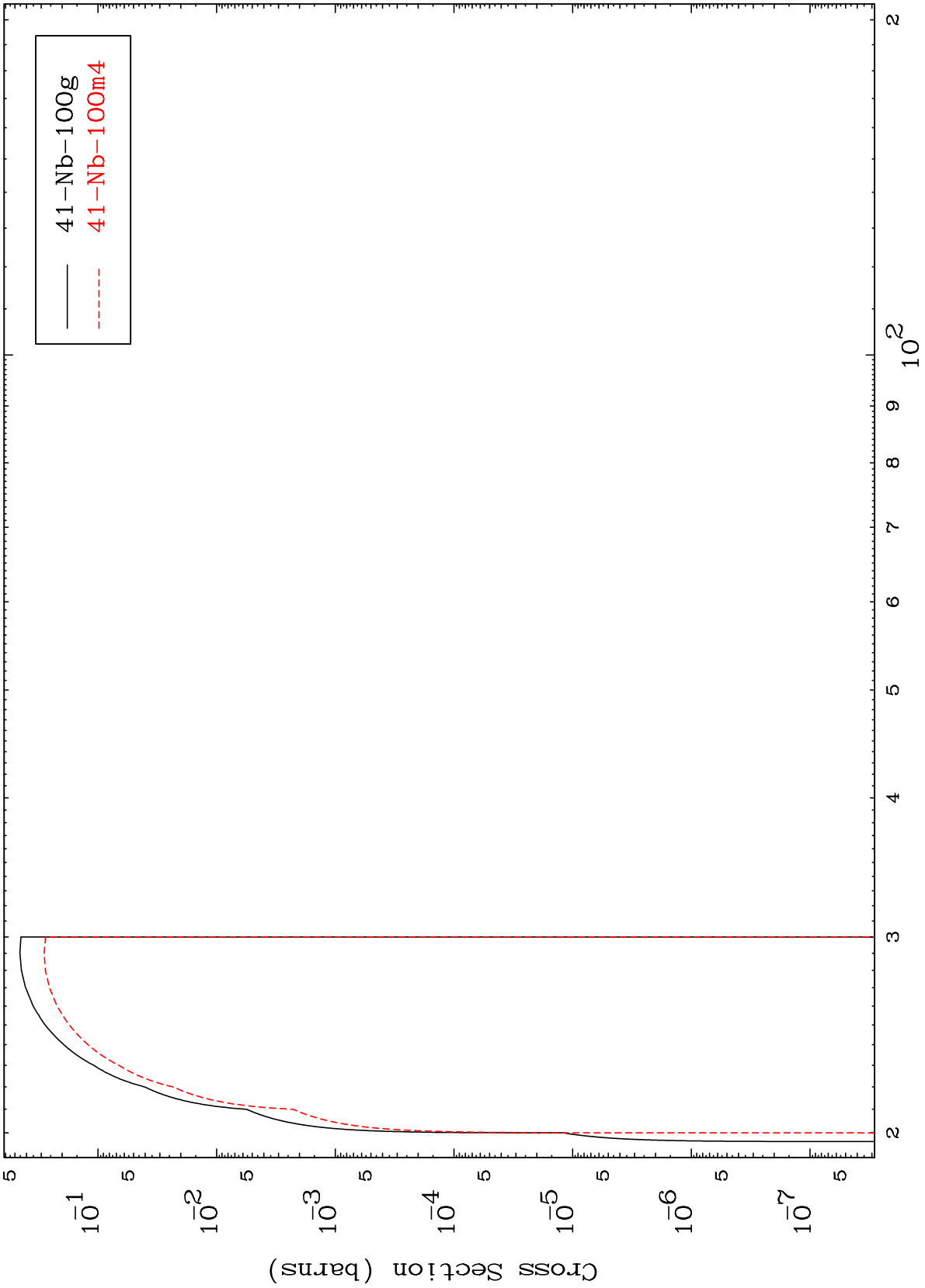


MAT 4155

(n,4n)

41-Nb-103

Radionuclide Production Cross Section



83

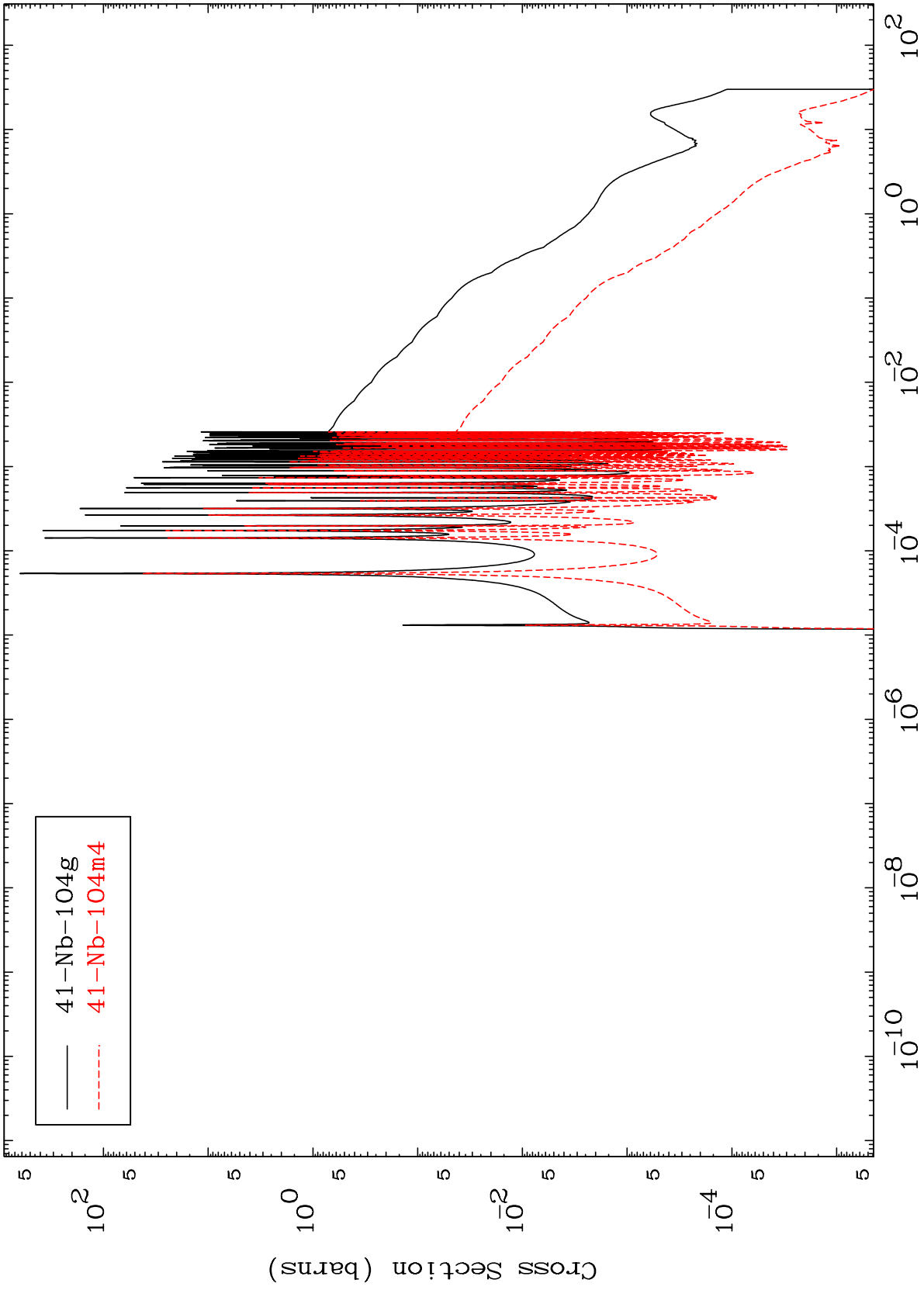
Incident Energy (MeV)

41-Nb-103

MAT 4155

(n, γ)
Radionuclide Production Cross Section

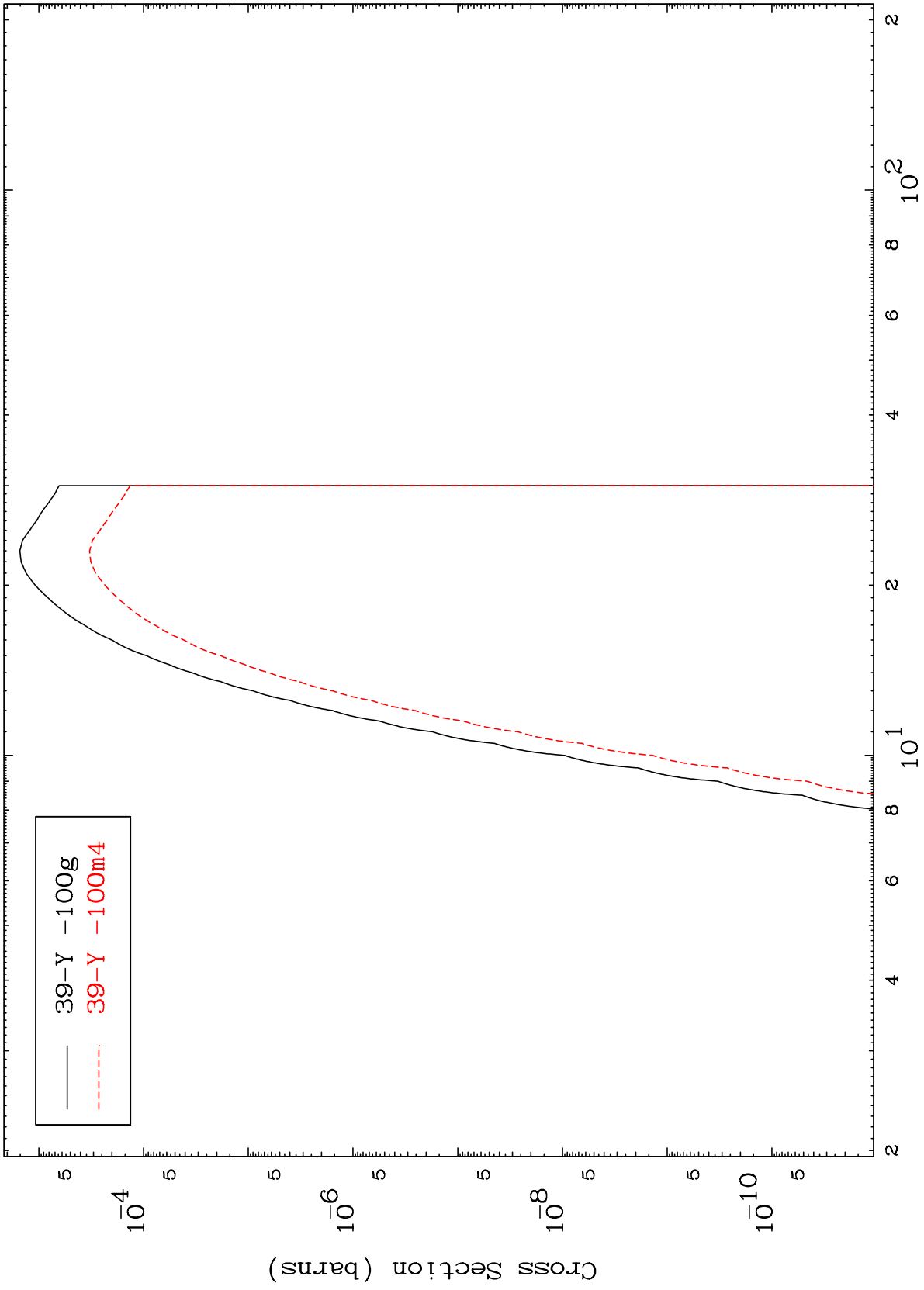
41-Nb-103



MAT 4155

41-Nb-103

(n,α)
Radionuclide Production Cross Section



85

41-Nb-103