

Program EVALPLOT
(Version 2018-1)

by

Dermott E. Cullen
(Present Contact Information)

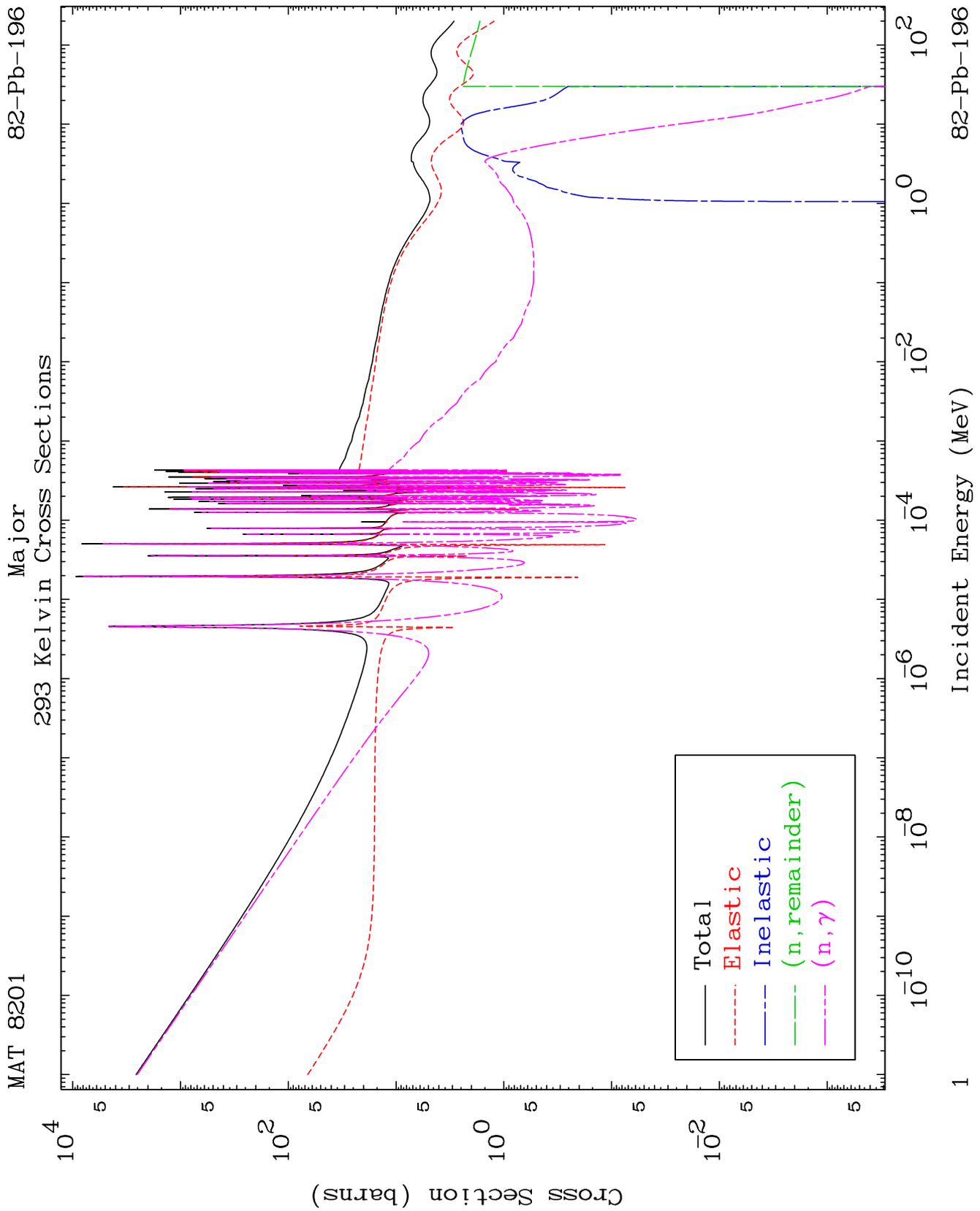
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Tele: 925-443-1911

E.Mail: redcullen1@comcast.net

Web: redcullen1.net/HOMEPAGE.NEW

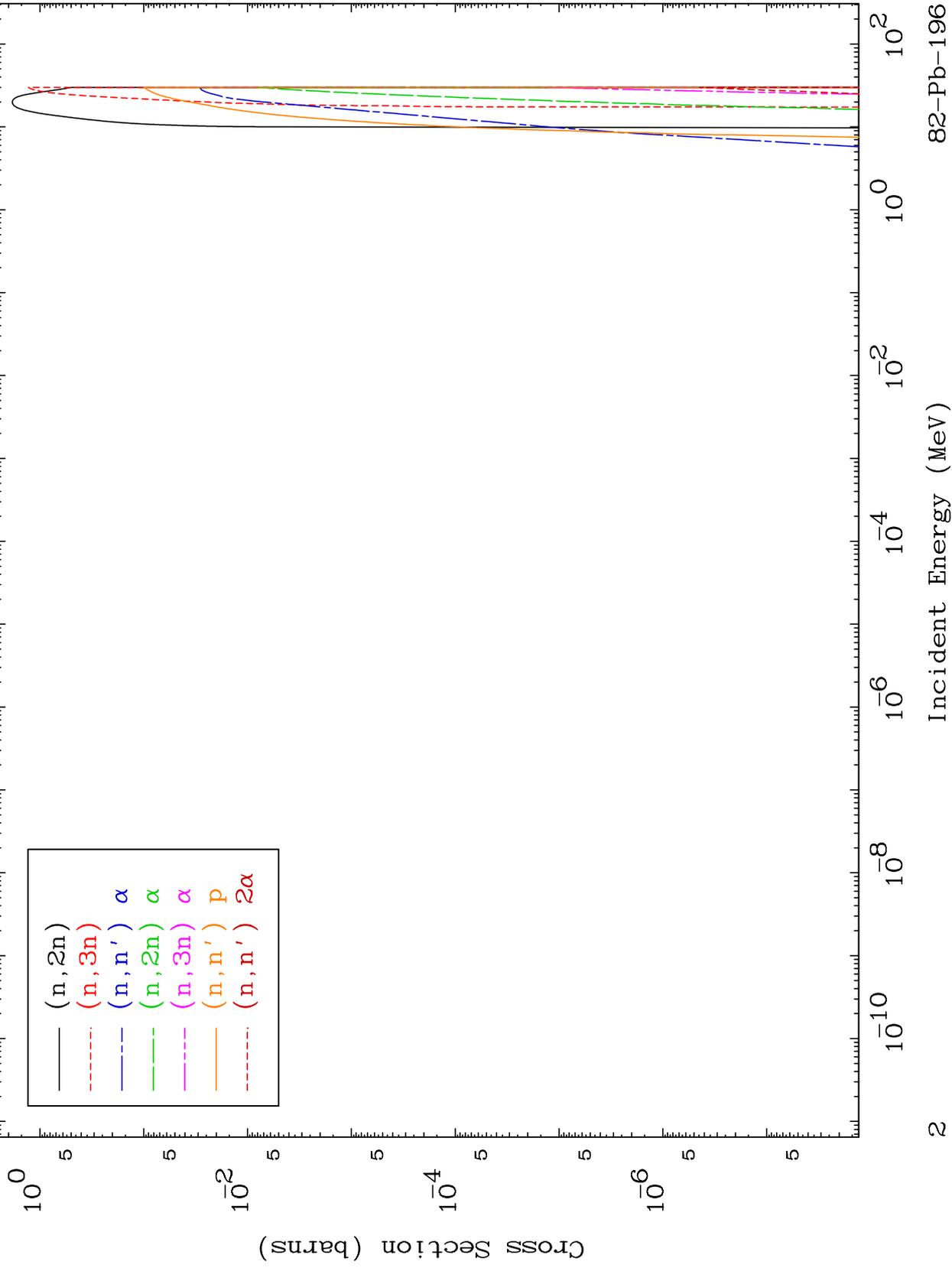
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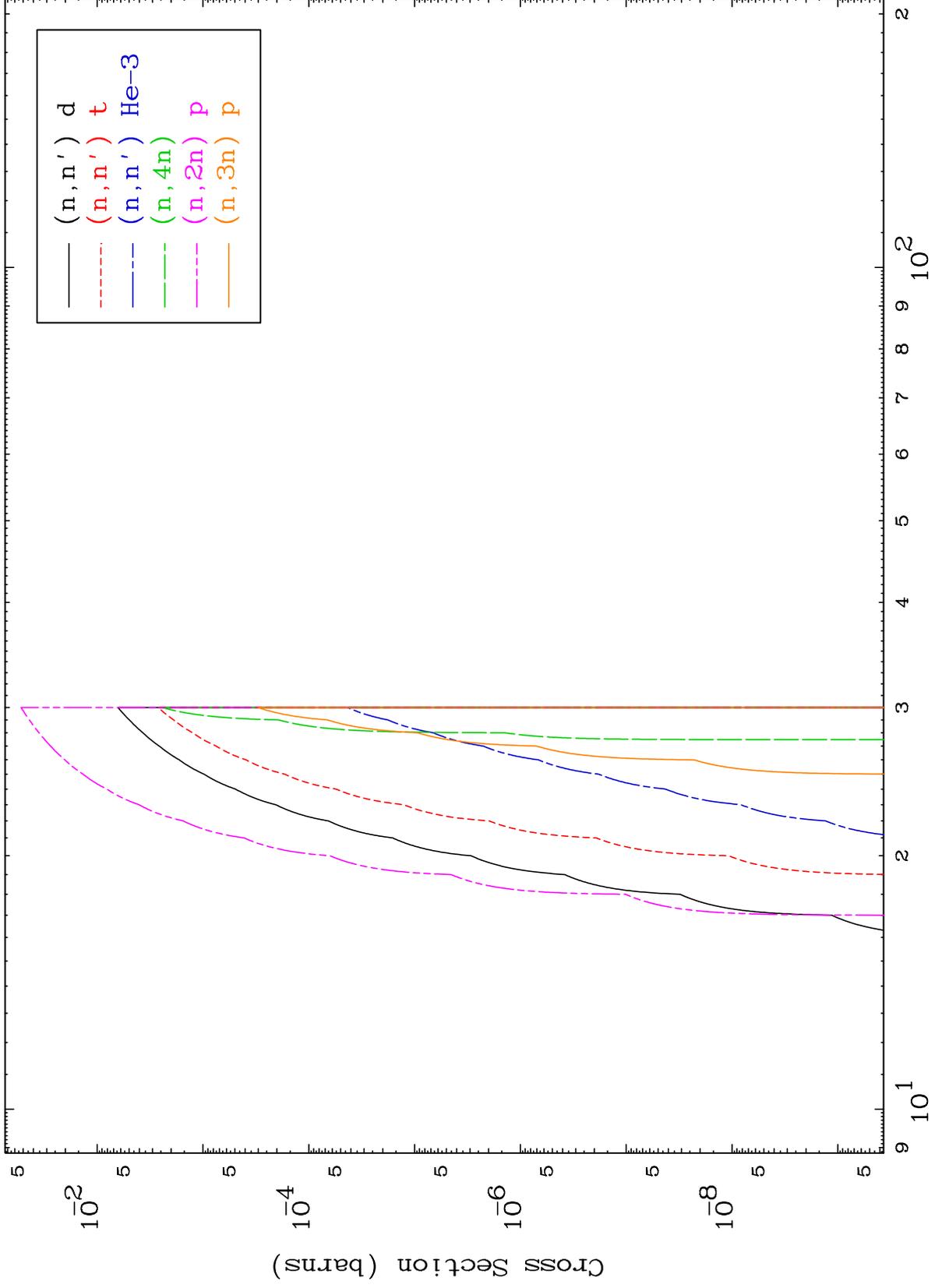


MAT 8201

Neutron Production
293 Kelvin Cross Sections

82-Pb-196

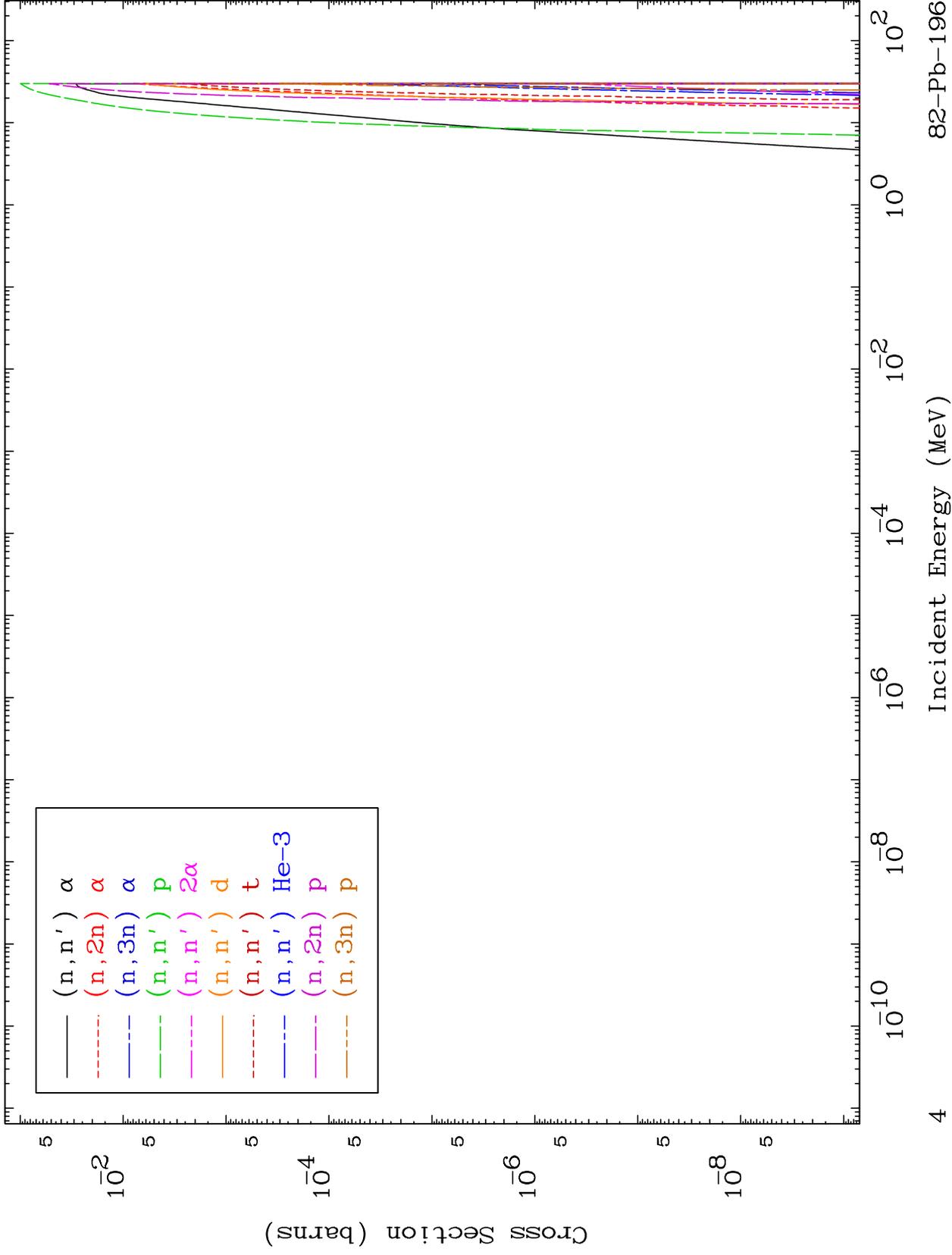




MAT 8201

Charged Particle
293 Kelvin Cross Sections

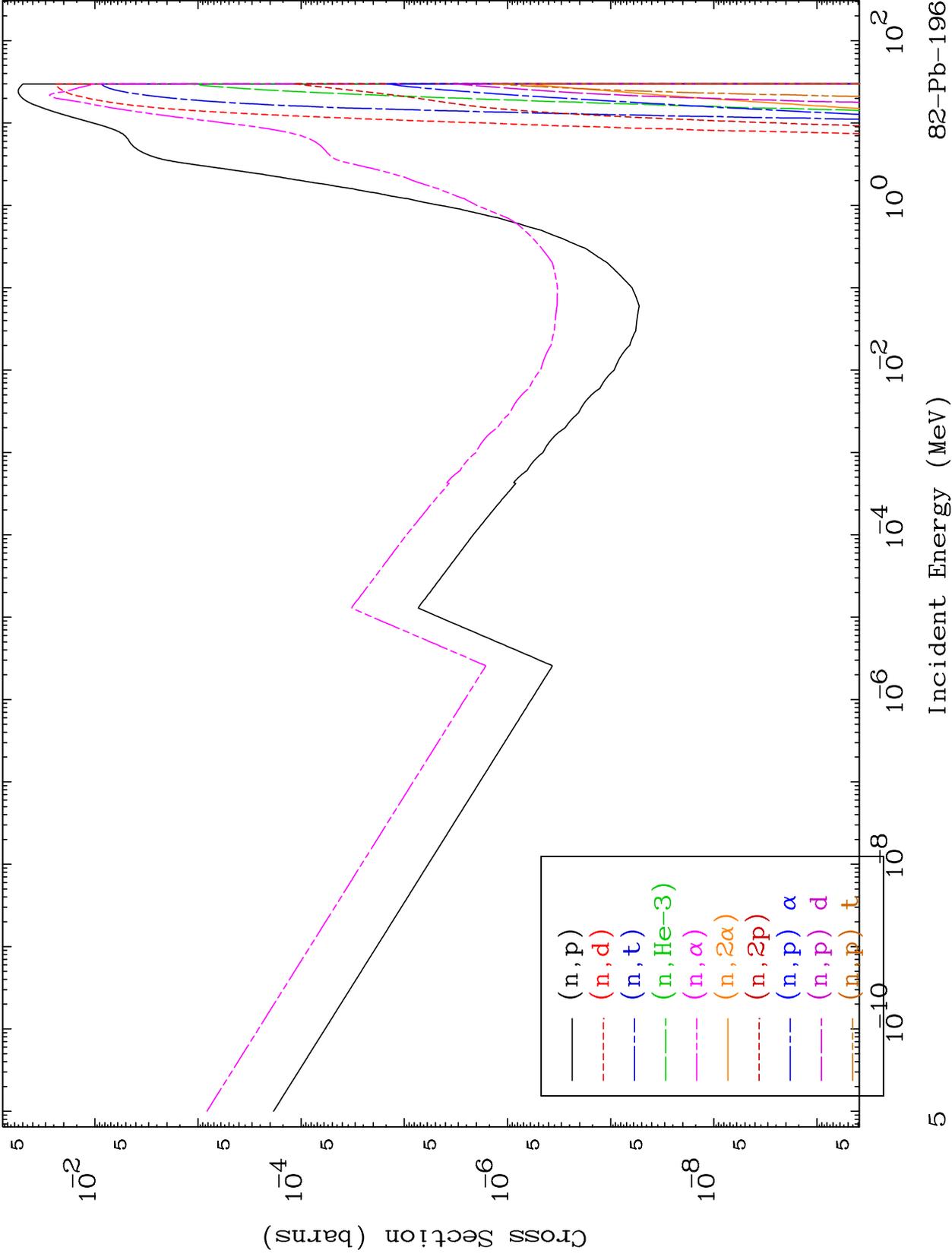
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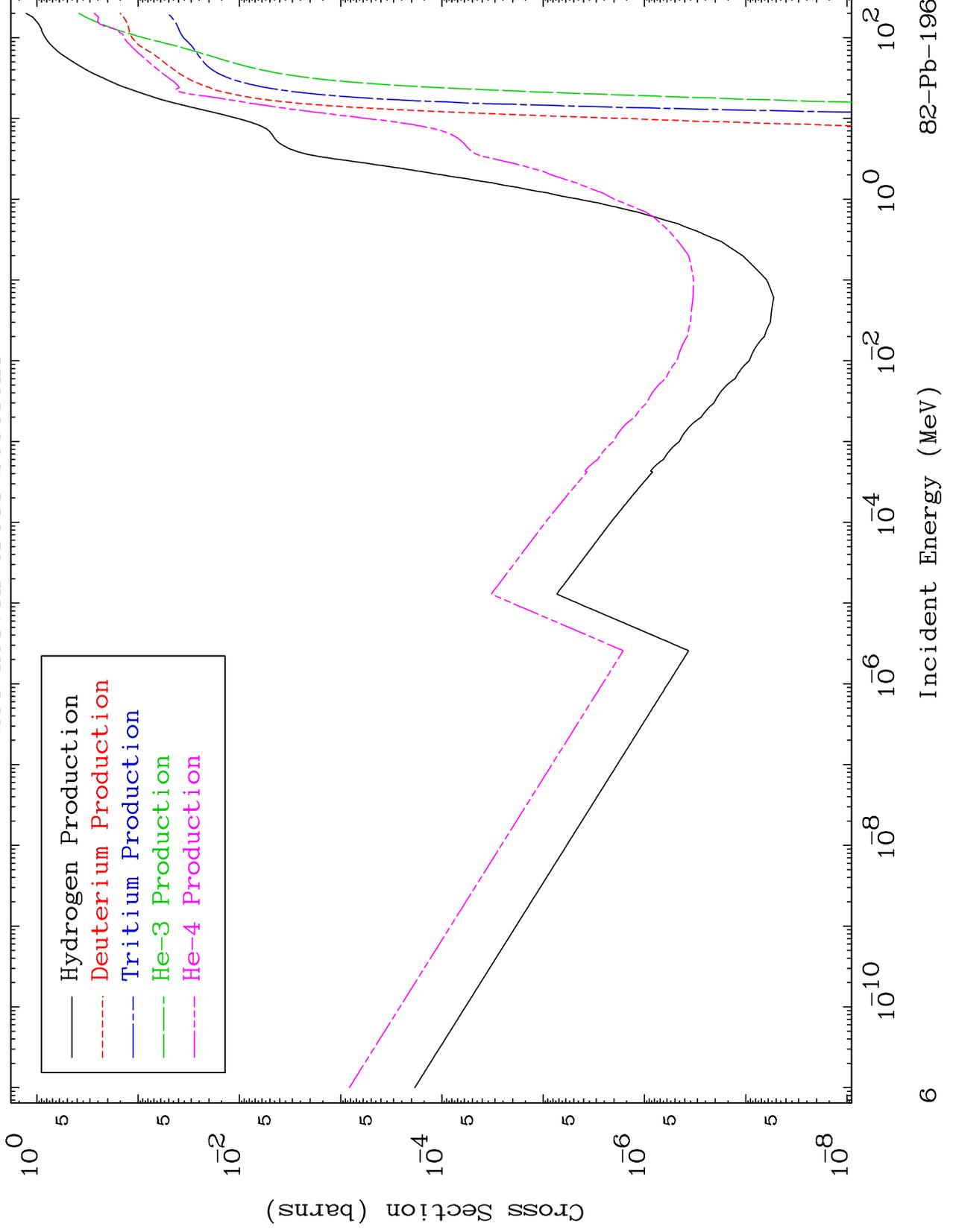


MAT 8201

Charged Particle
293 Kelvin Cross Sections

82-Pb-196



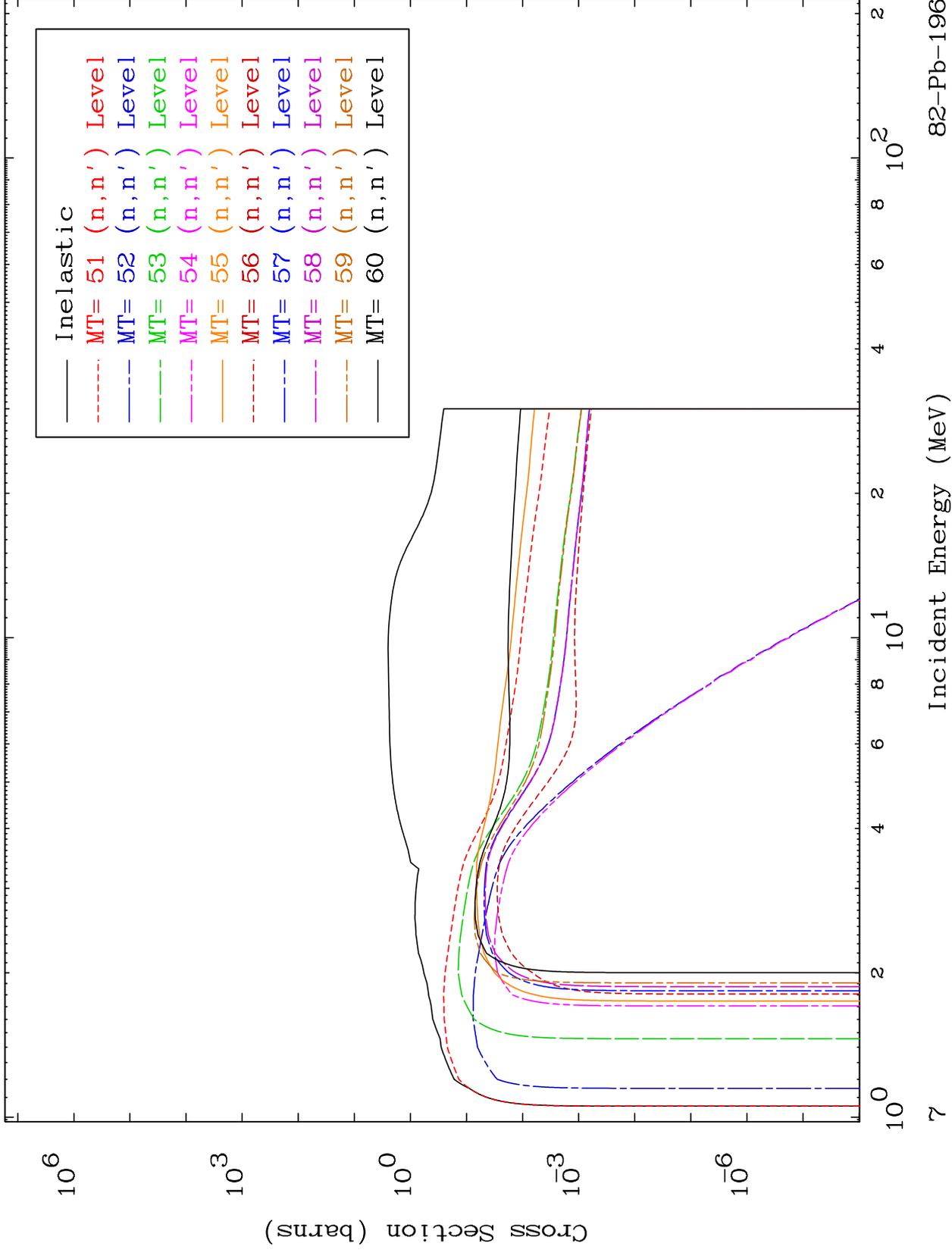


MAT 8201

(n,n') Level

82-Pb-196

293 Kelvin Cross Sections

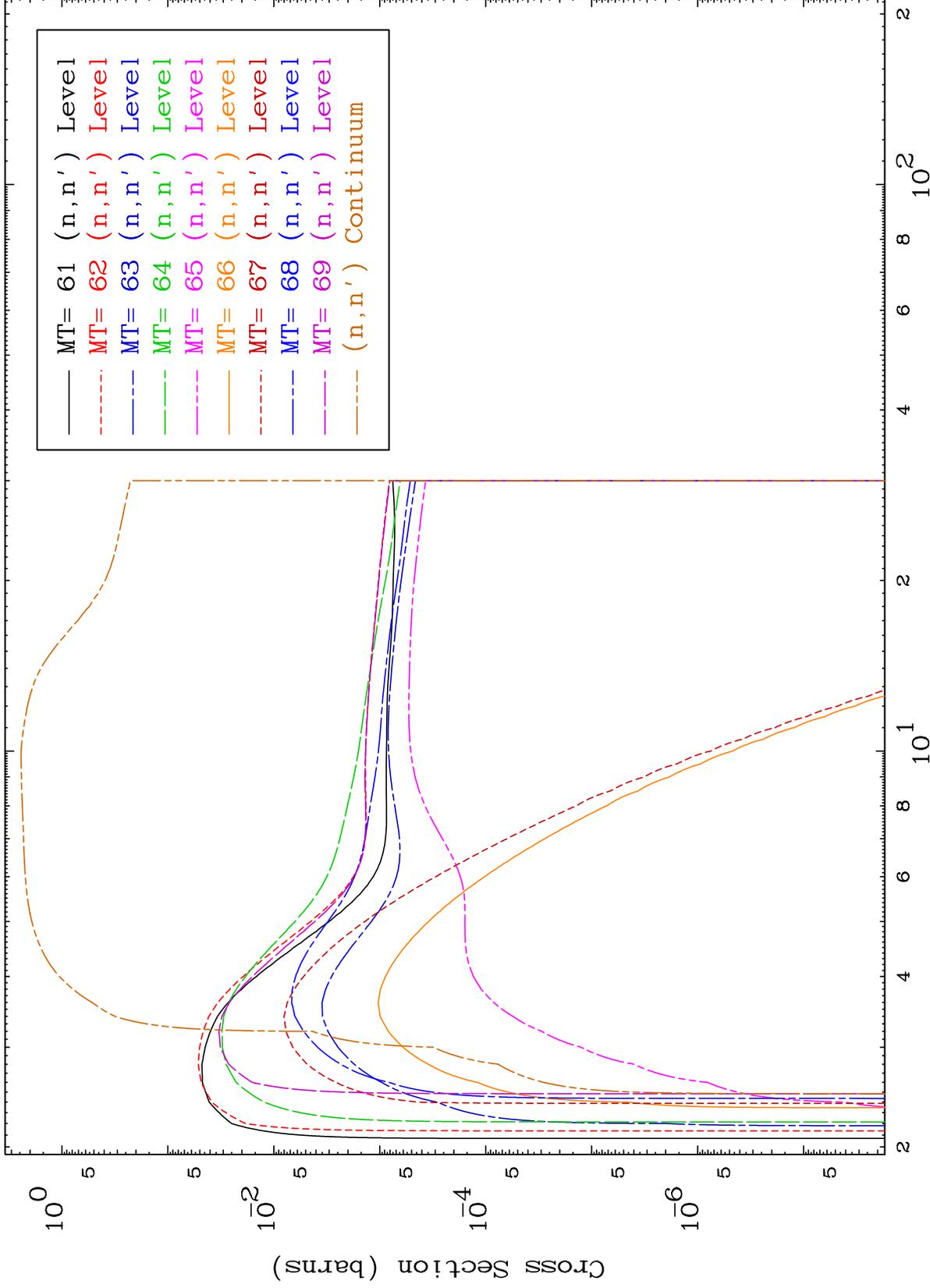


MAT 8201

(n,n') Level

82-Pb-196

293 Kelvin Cross Sections



8

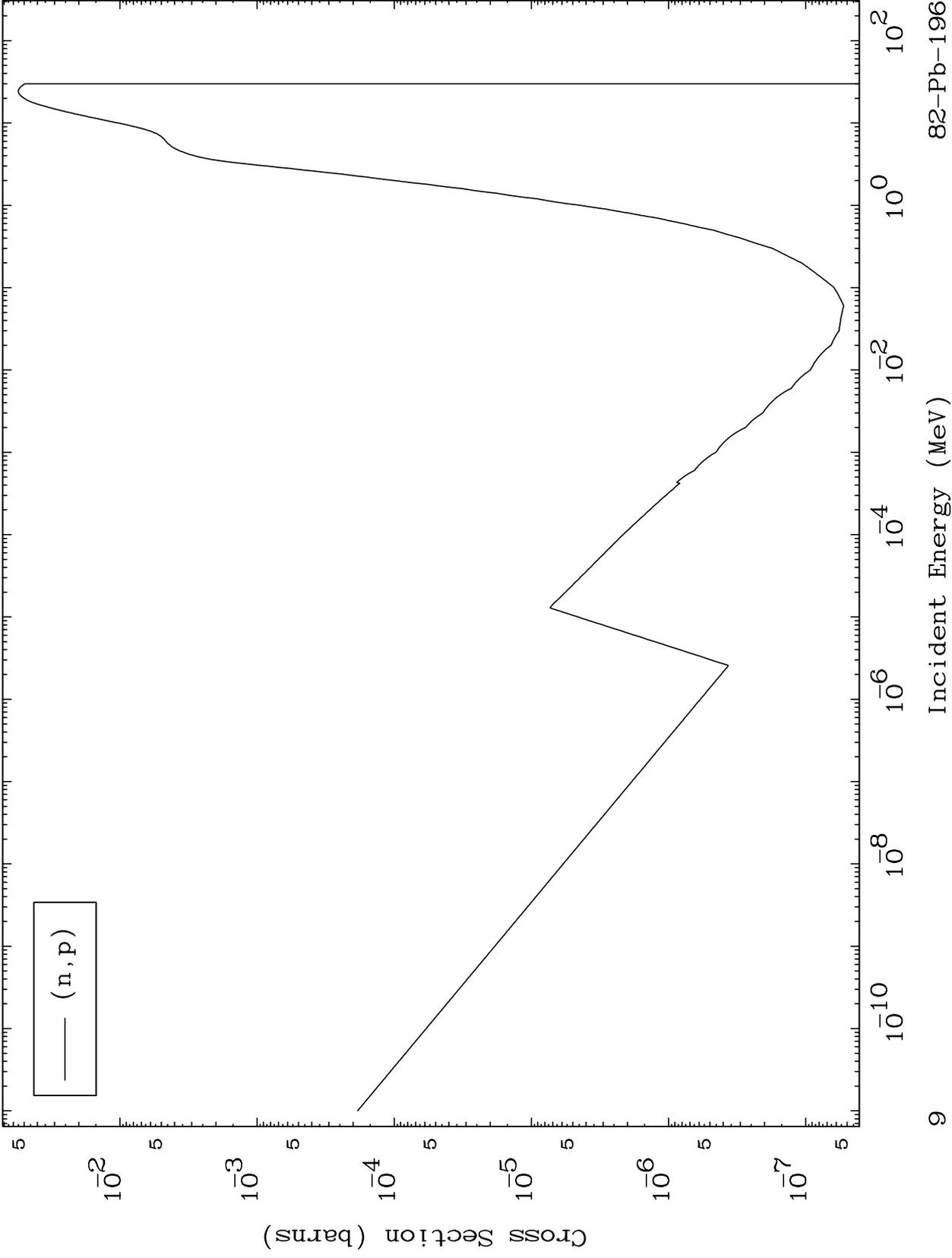
Incident Energy (MeV)

82-Pb-196

MAT 8201

(n,p) Levels
293 Kelvin Cross Sections

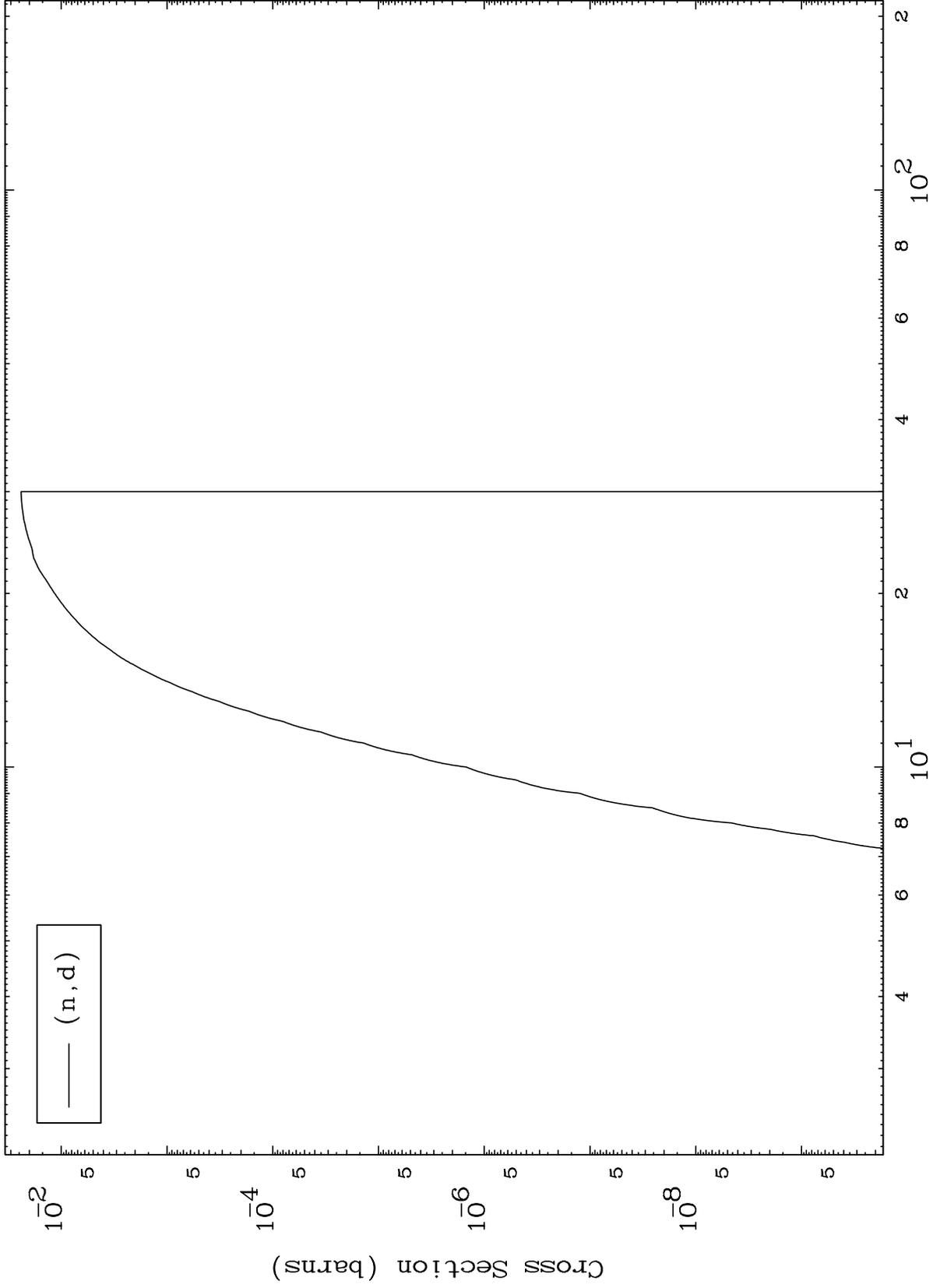
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MAT 8201

(n,d) Levels
293 Kelvin Cross Sections

82-Pb-196



10

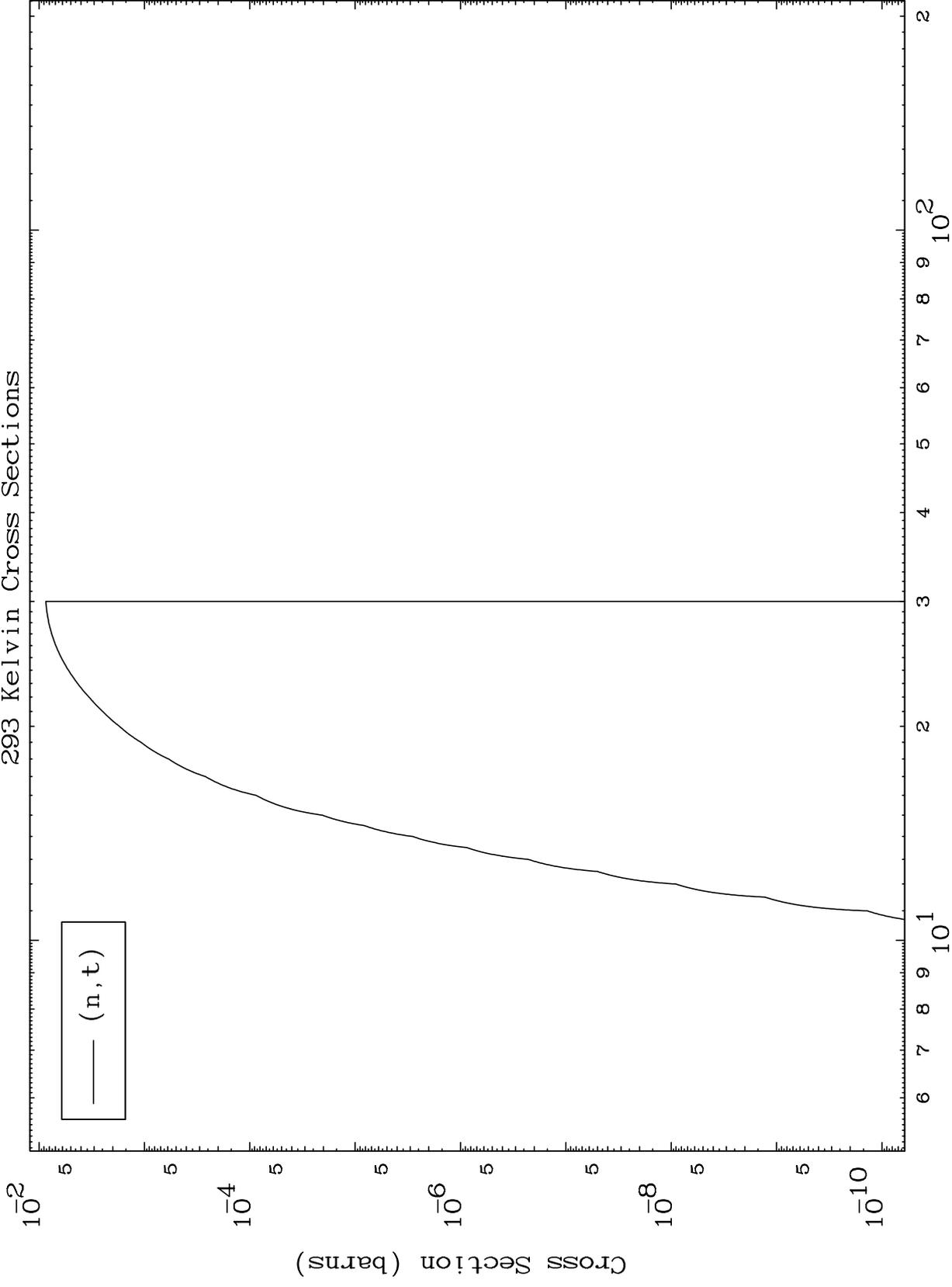
Incident Energy (MeV)

82-Pb-196

MAT 8201

(n,t) Levels
293 Kelvin Cross Sections

82-Pb-196



11

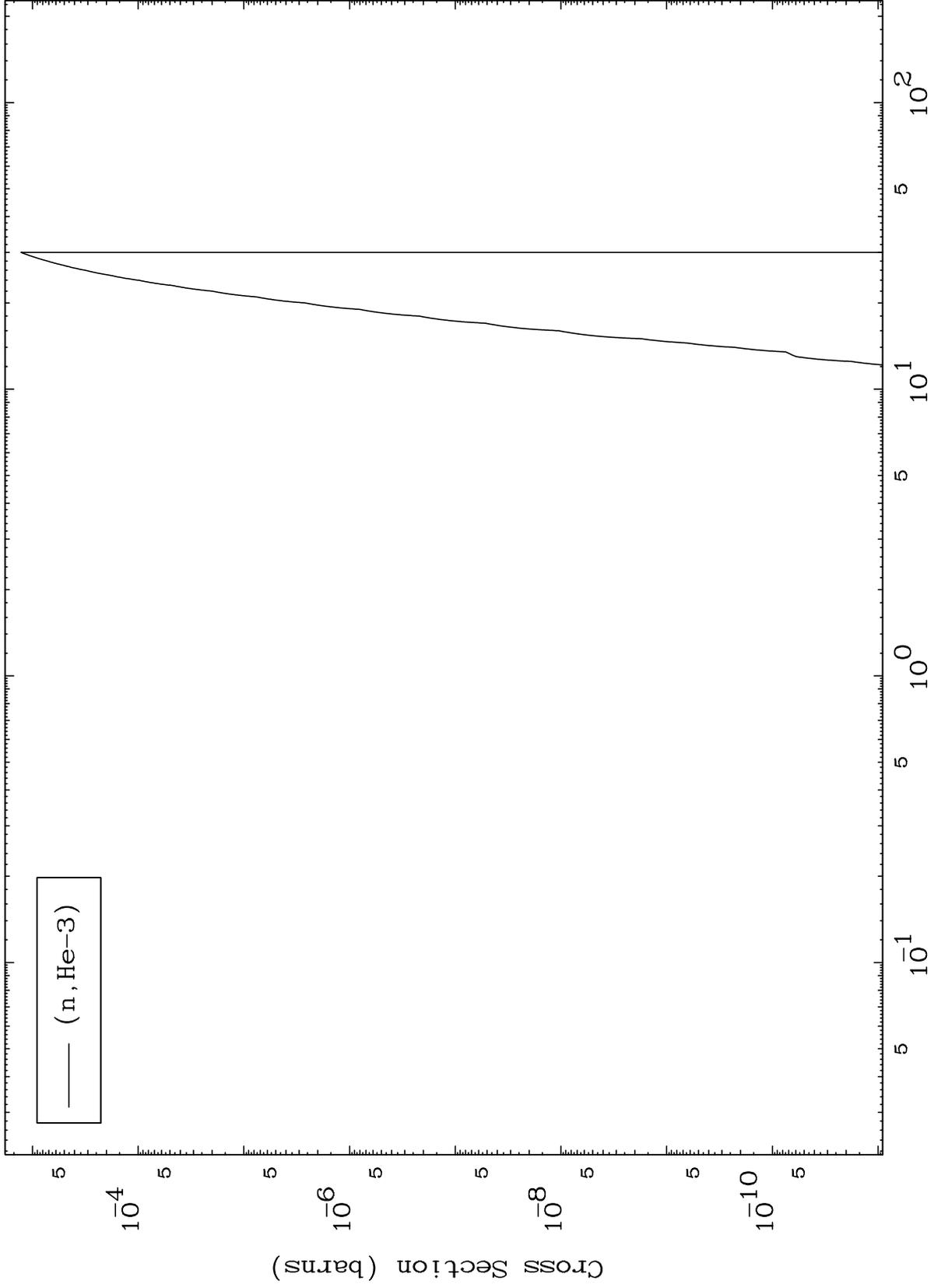
Incident Energy (MeV)

82-Pb-196

MAT 8201

(n,He3) Levels
293 Kelvin Cross Sections

82-Pb-196



12

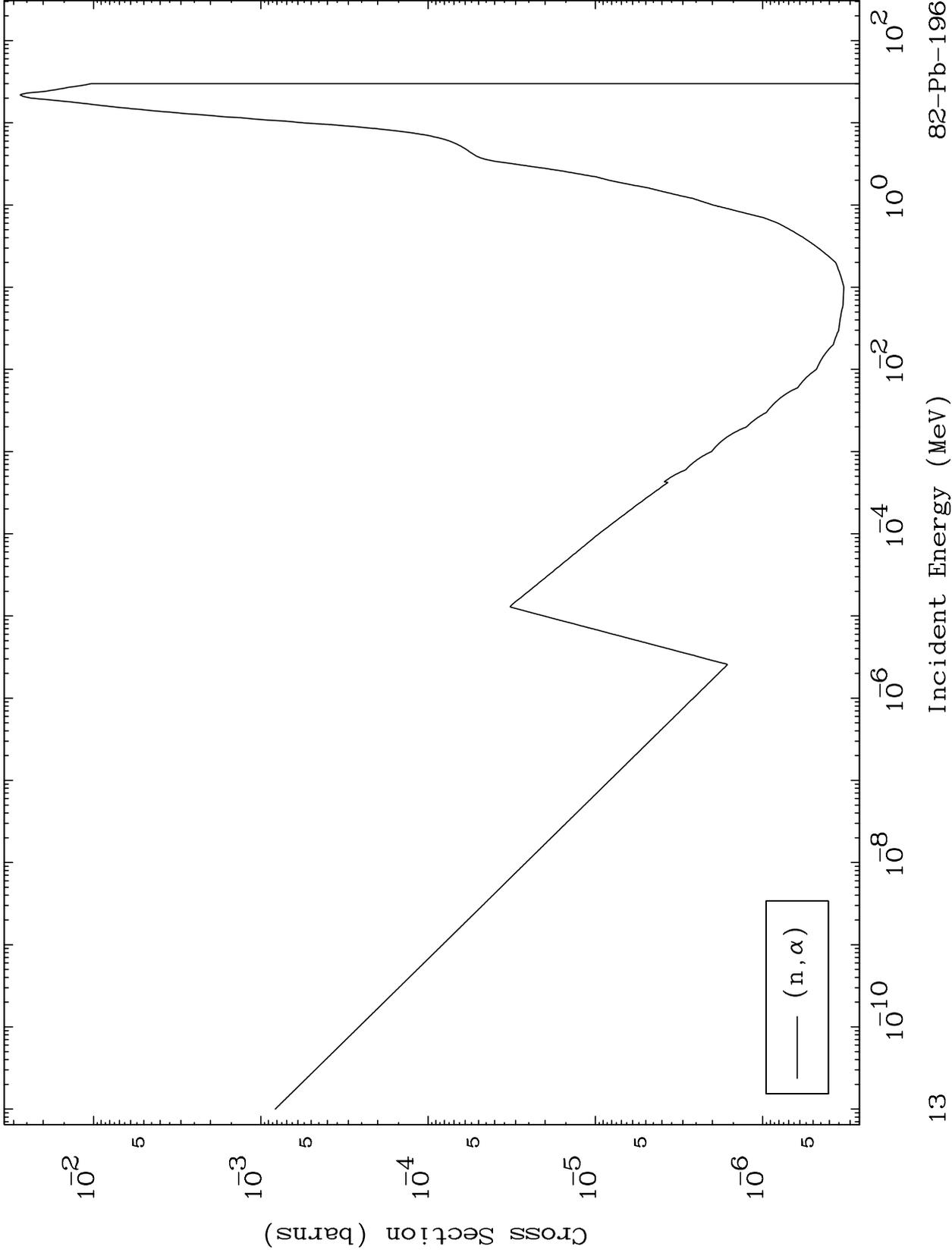
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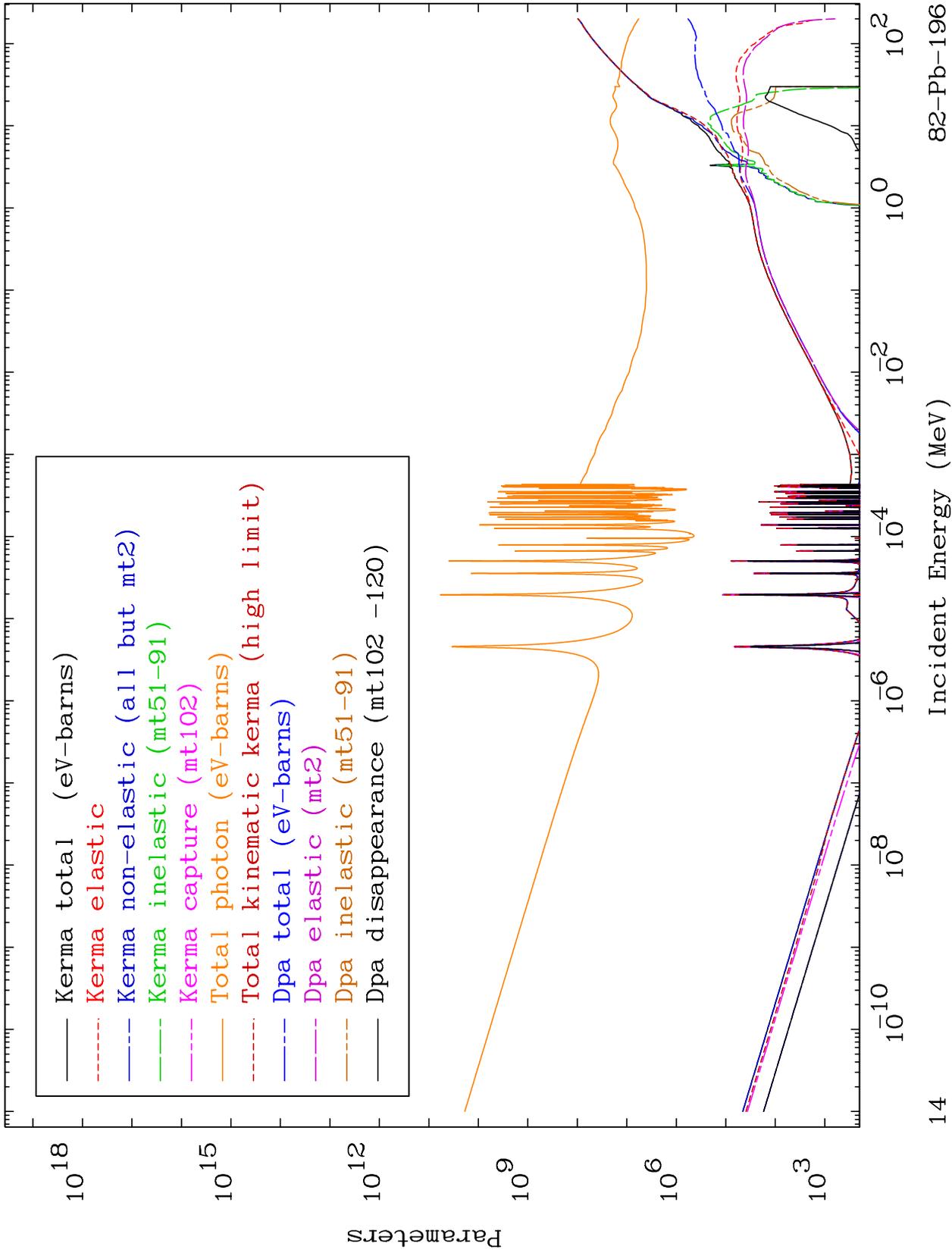
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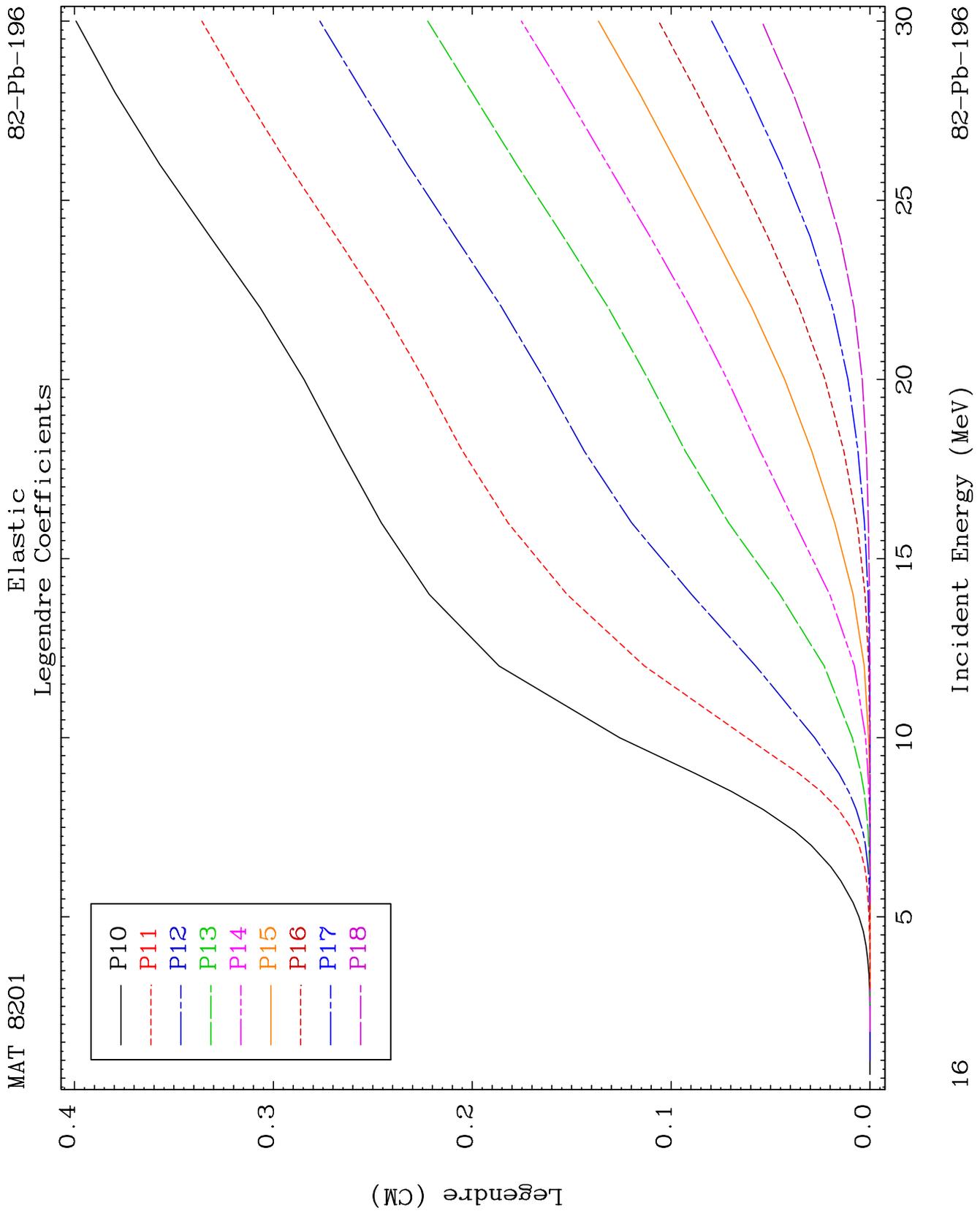
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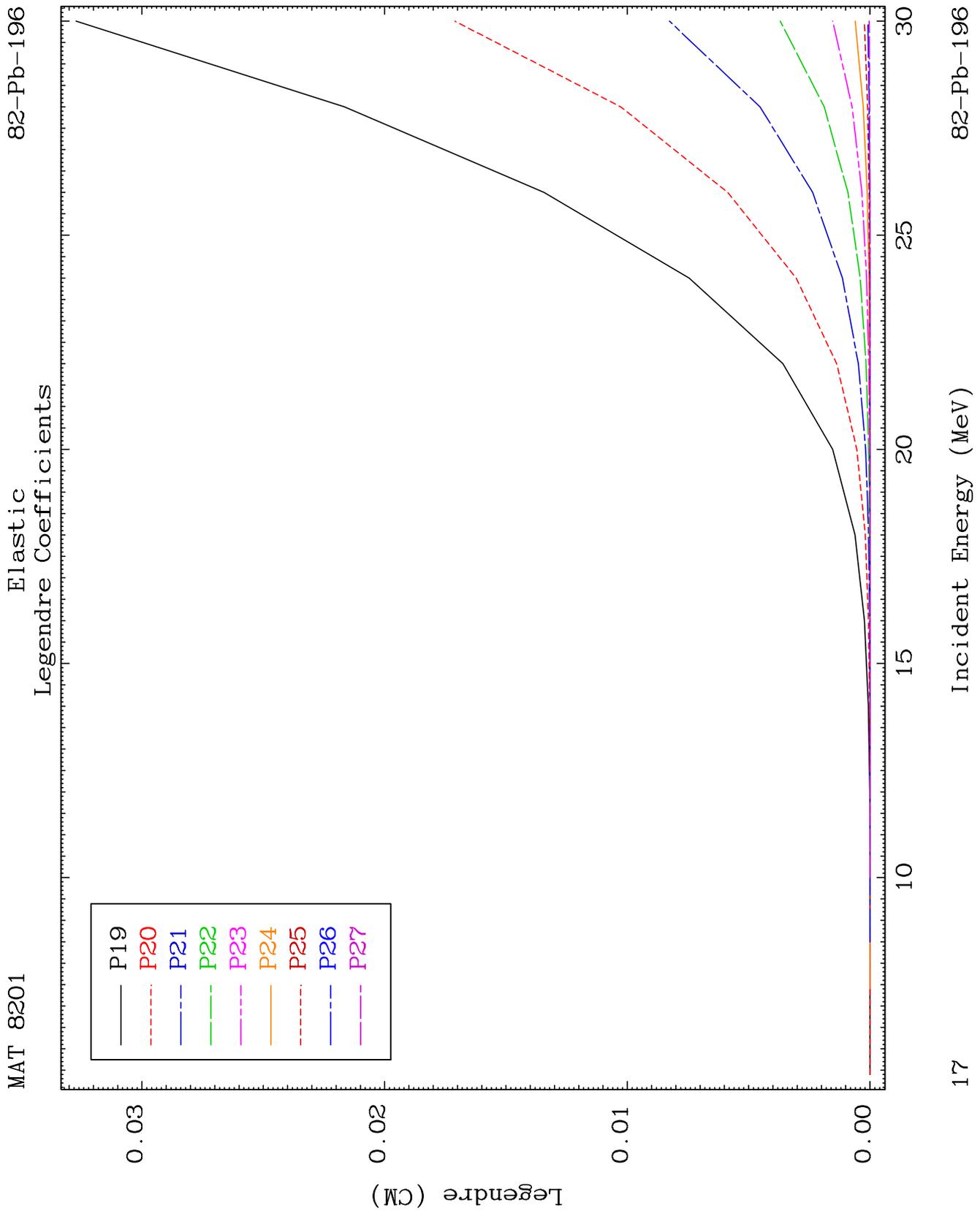
(n,α) Levels
293 Kelvin Cross Sections

82-Pb-196









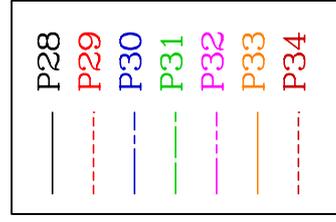
MAT 8201

17

MAT 8201

Elastic
Legendre Coefficients

82-Pb-196



$\times 10^{-5}$

Legendre (CM)

0.8

0.6

0.4

0.2

0.0

15

20

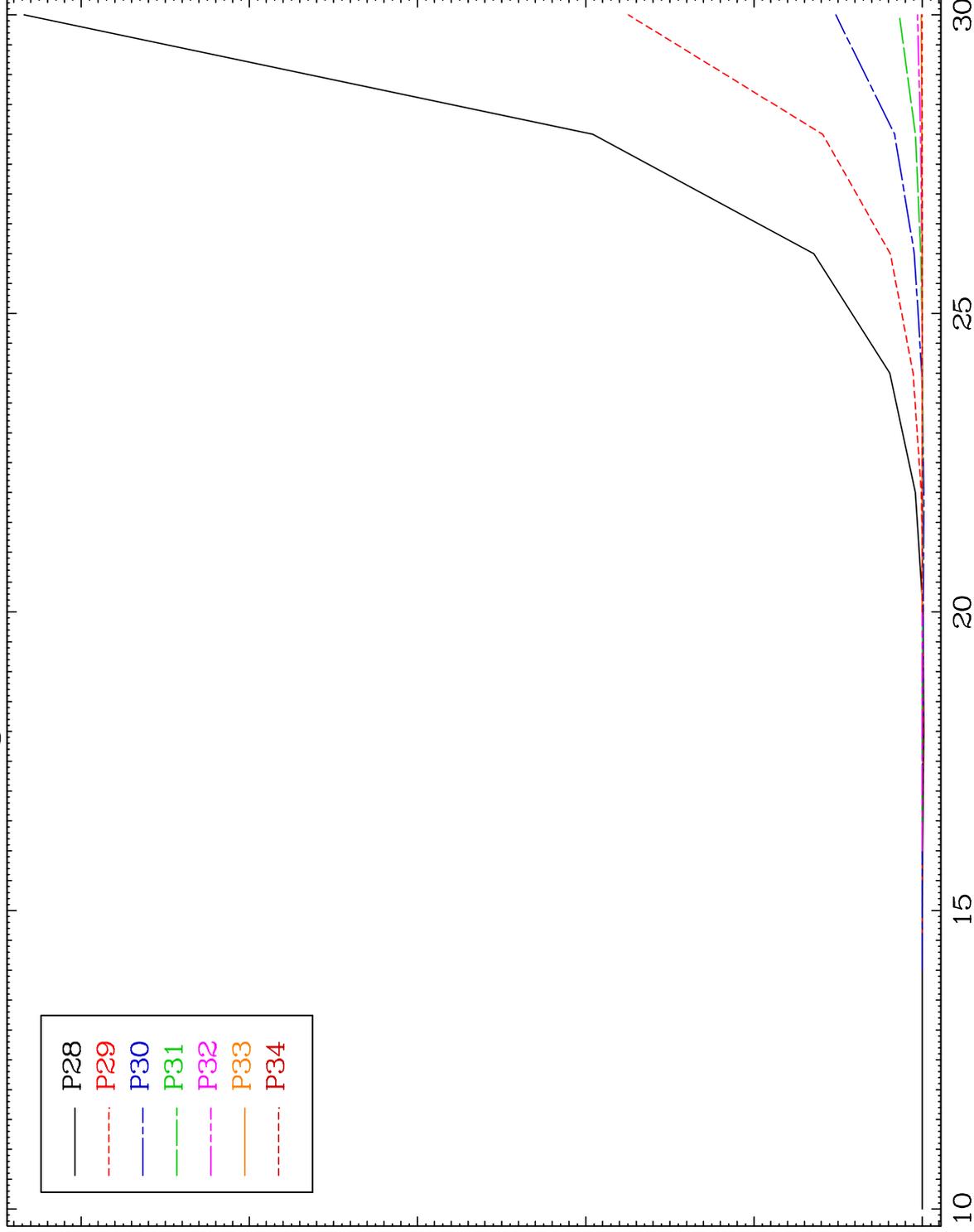
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18

Incident Energy (MeV)

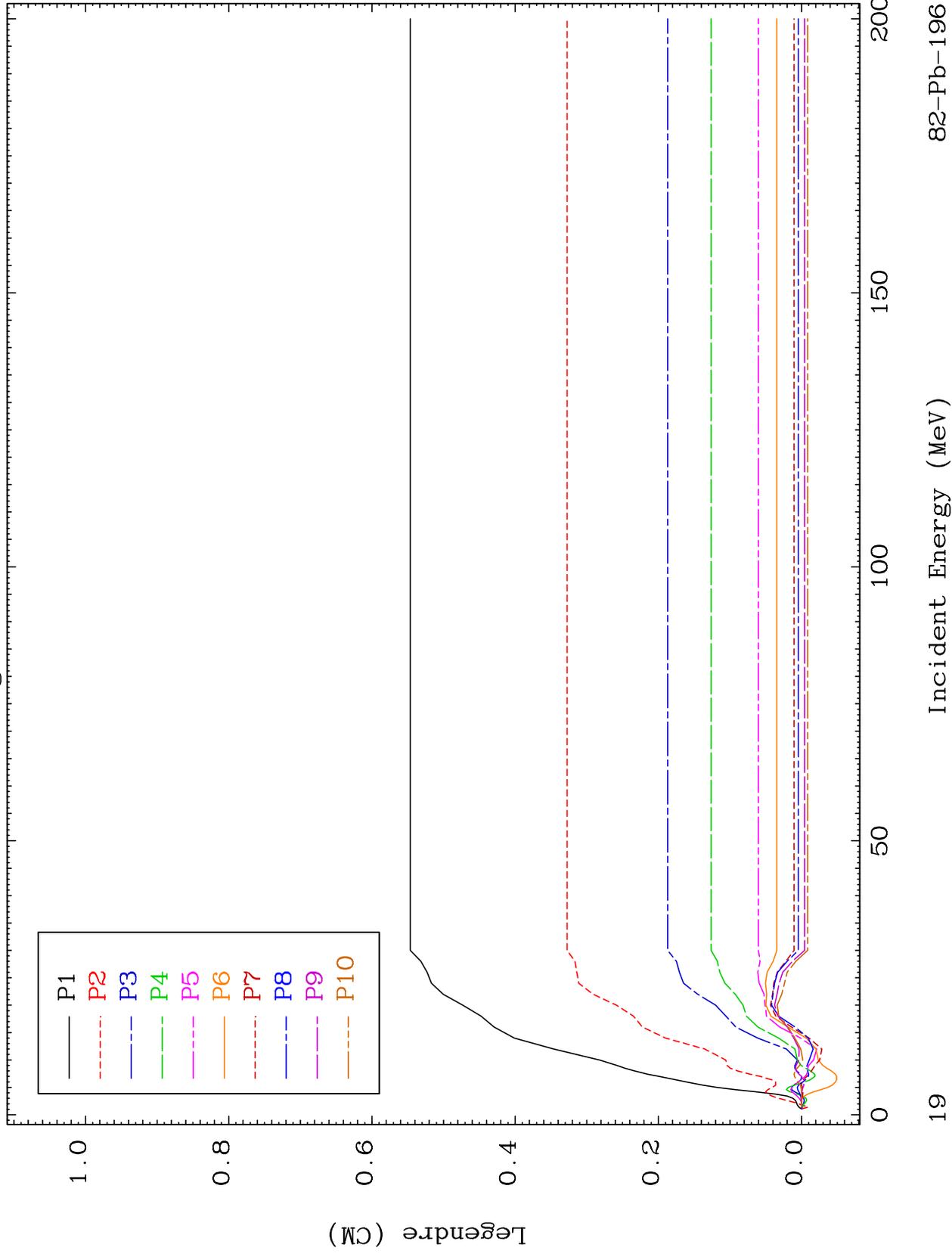
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MAT 8201

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

82-Pb-196

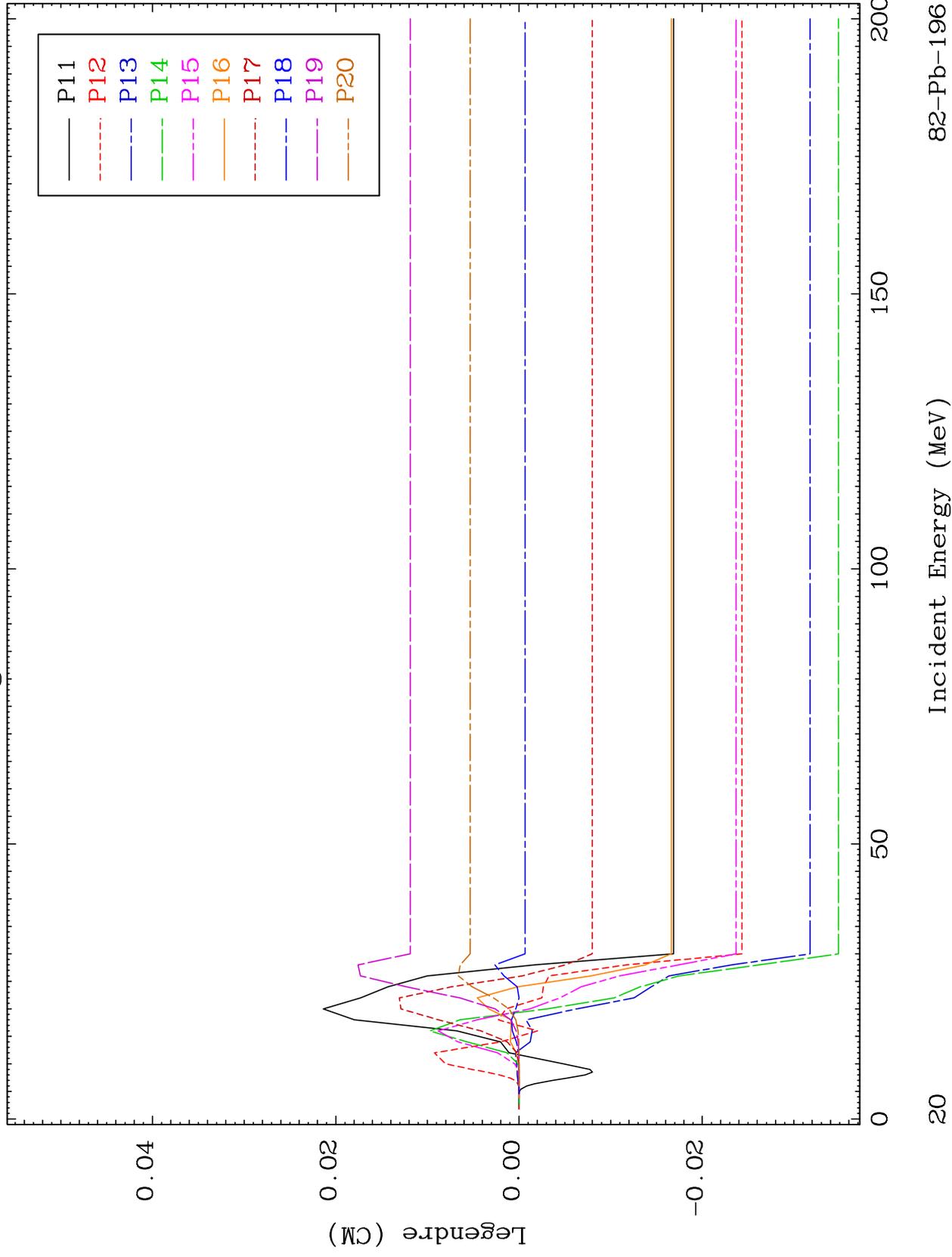


19

MAT 8201

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

82-Pb-196

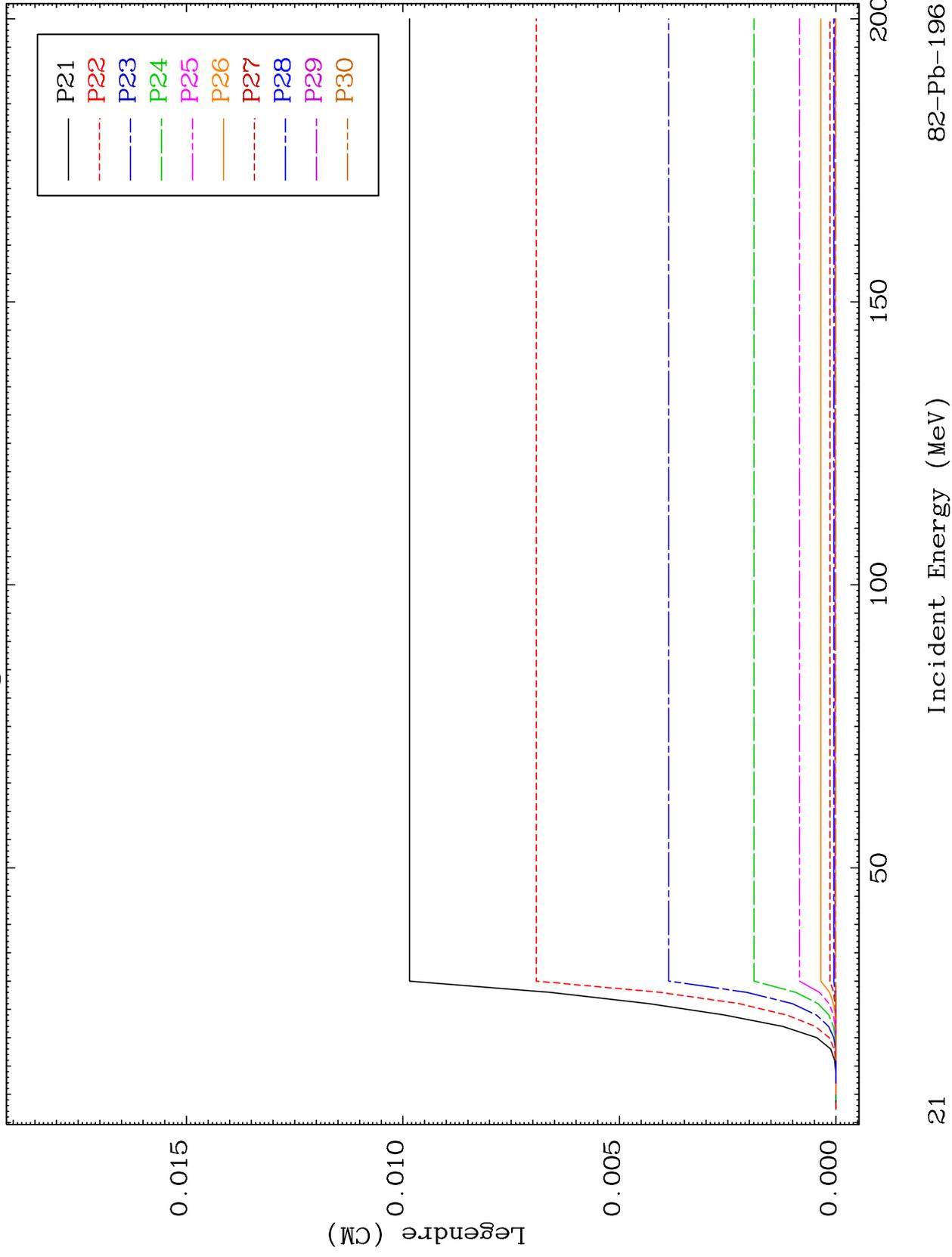


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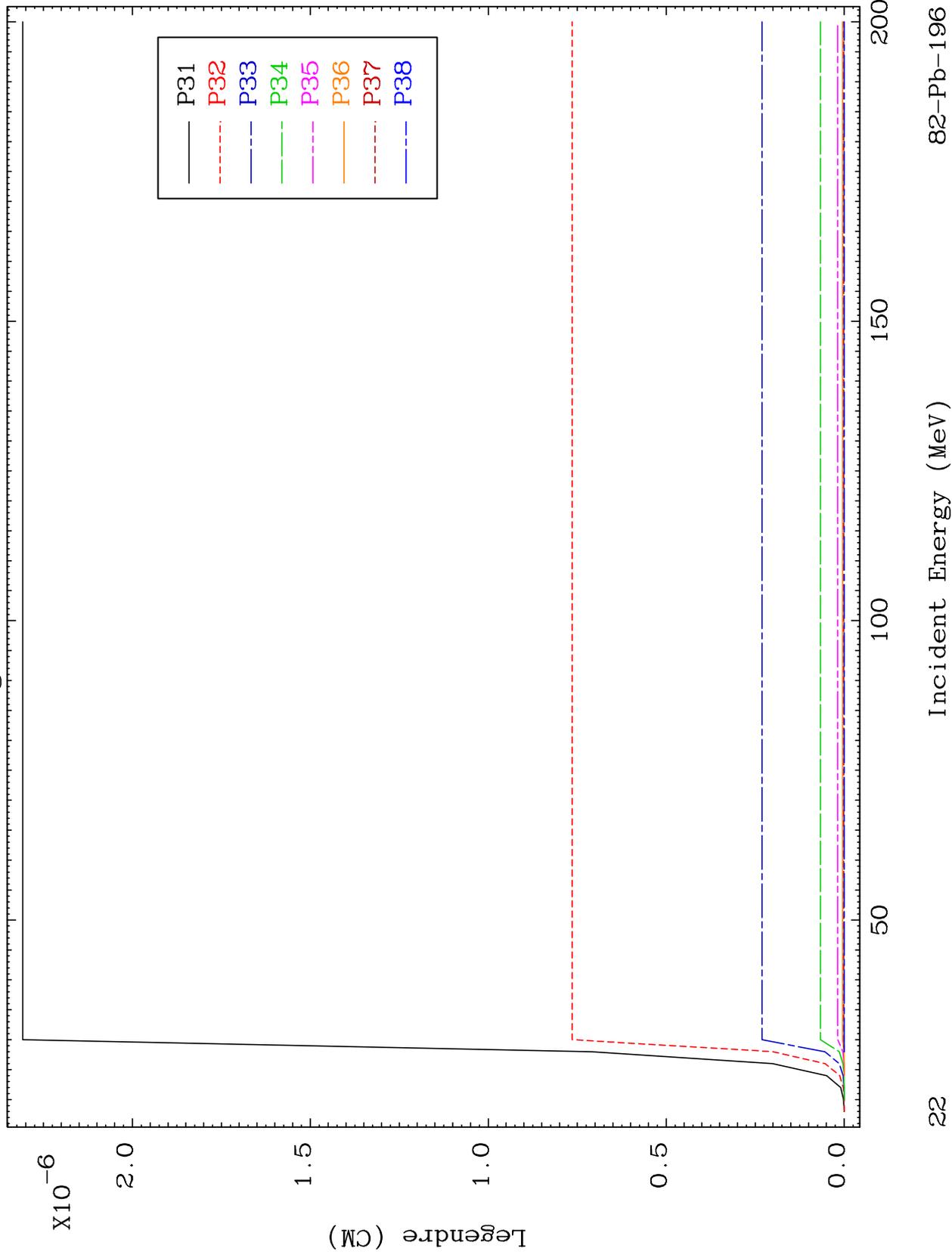
MT= 51 (n,n') Level
Legendre Coefficients

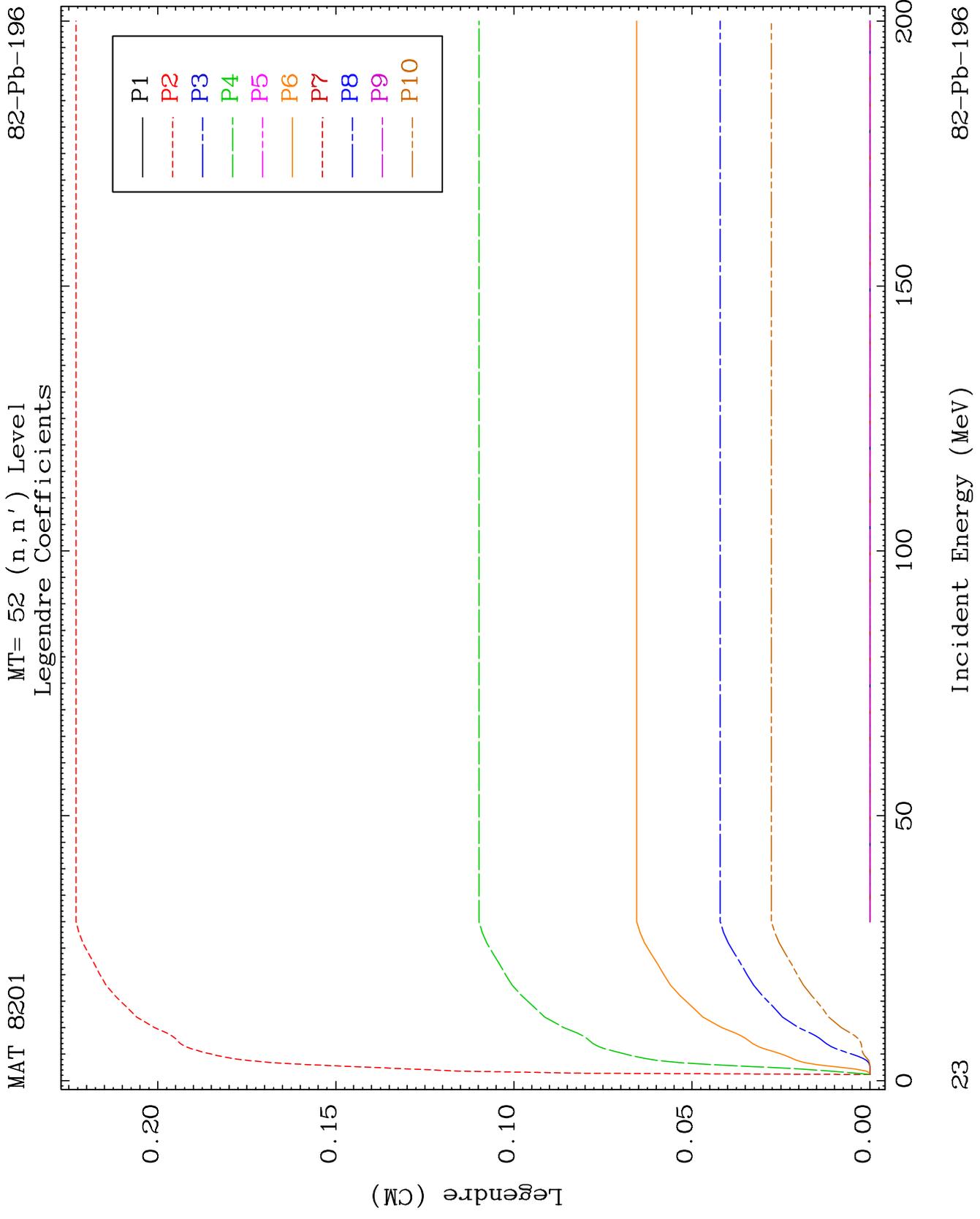
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82-Pb-196

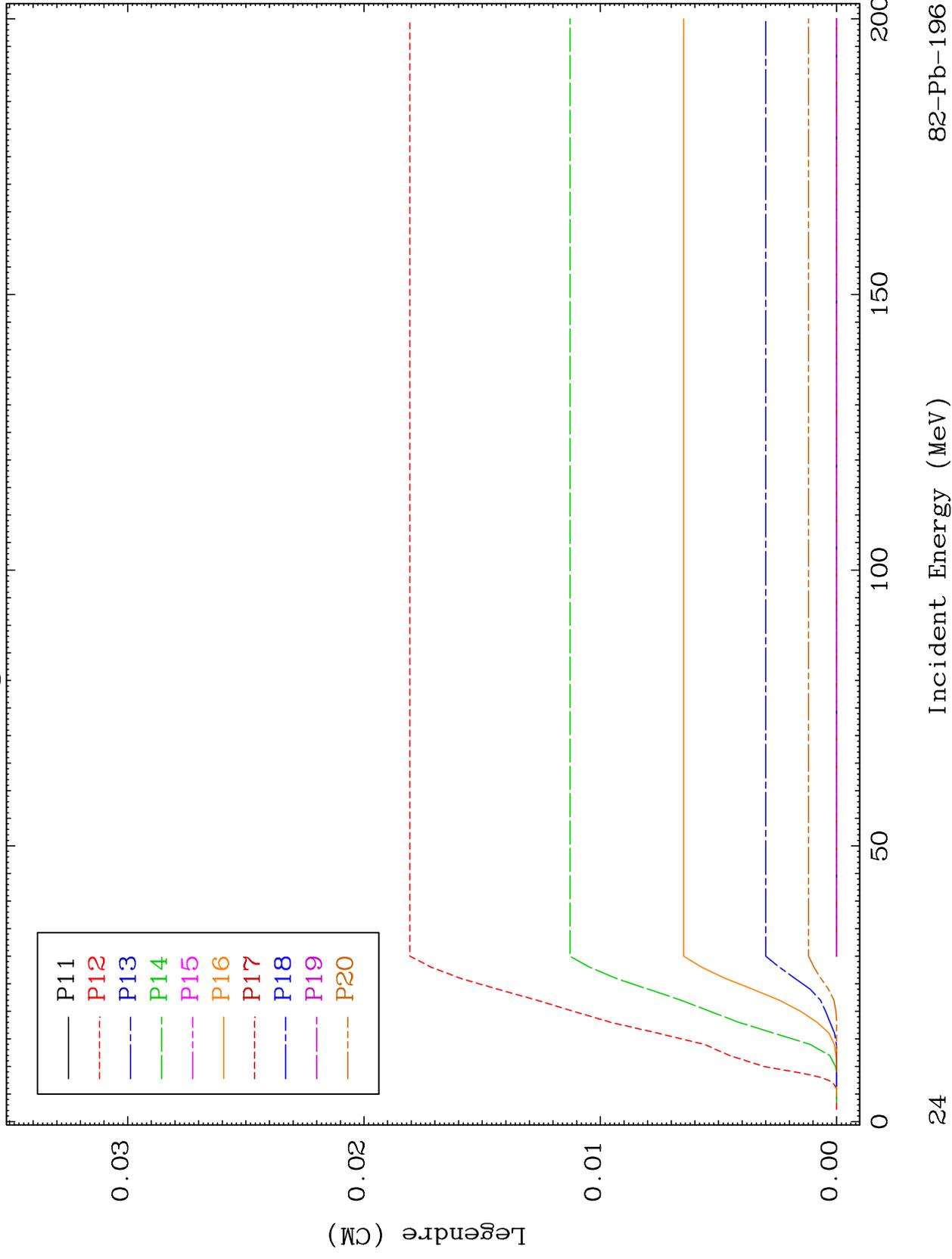




MAT 8201

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

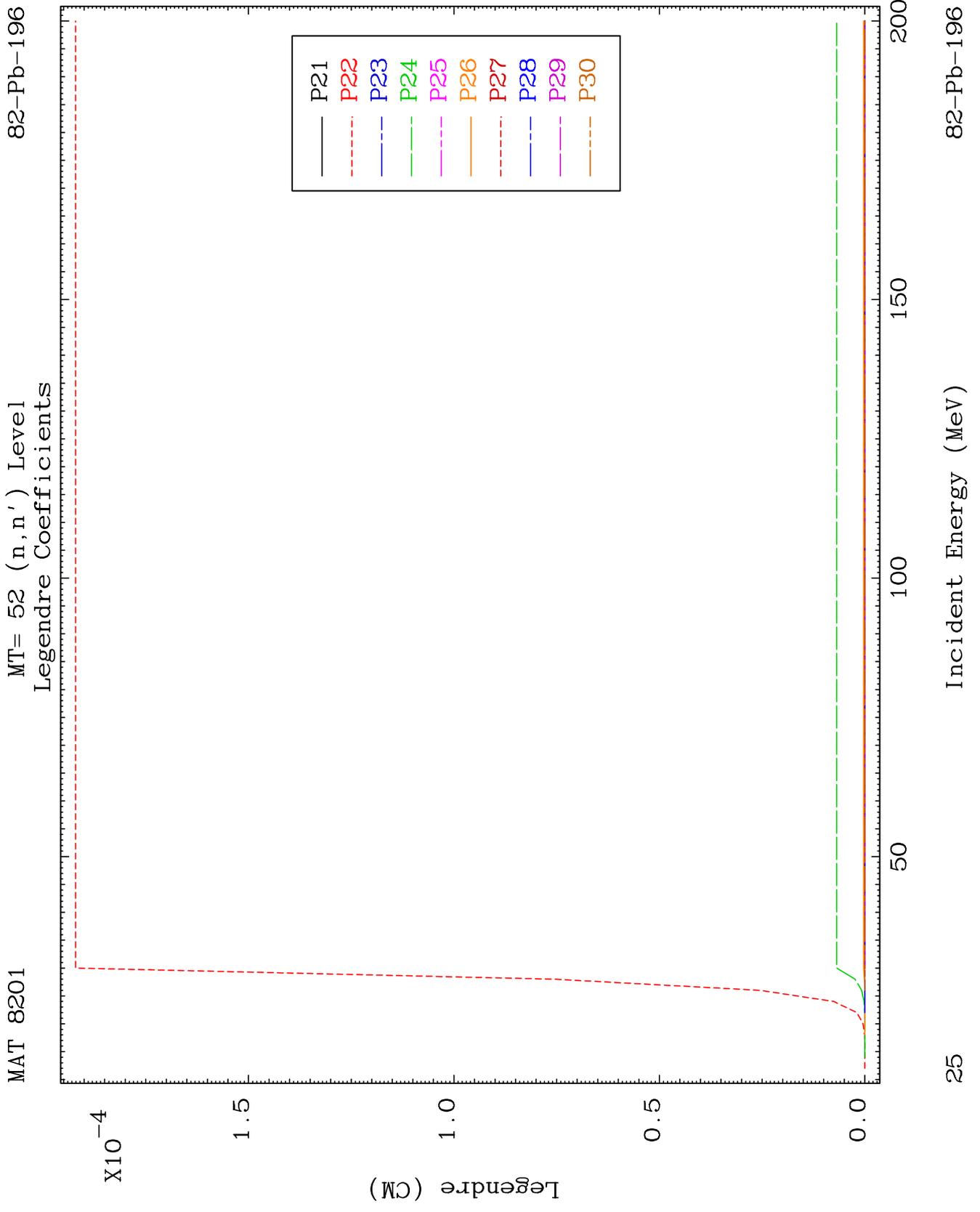
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24

Incident Energy (MeV)

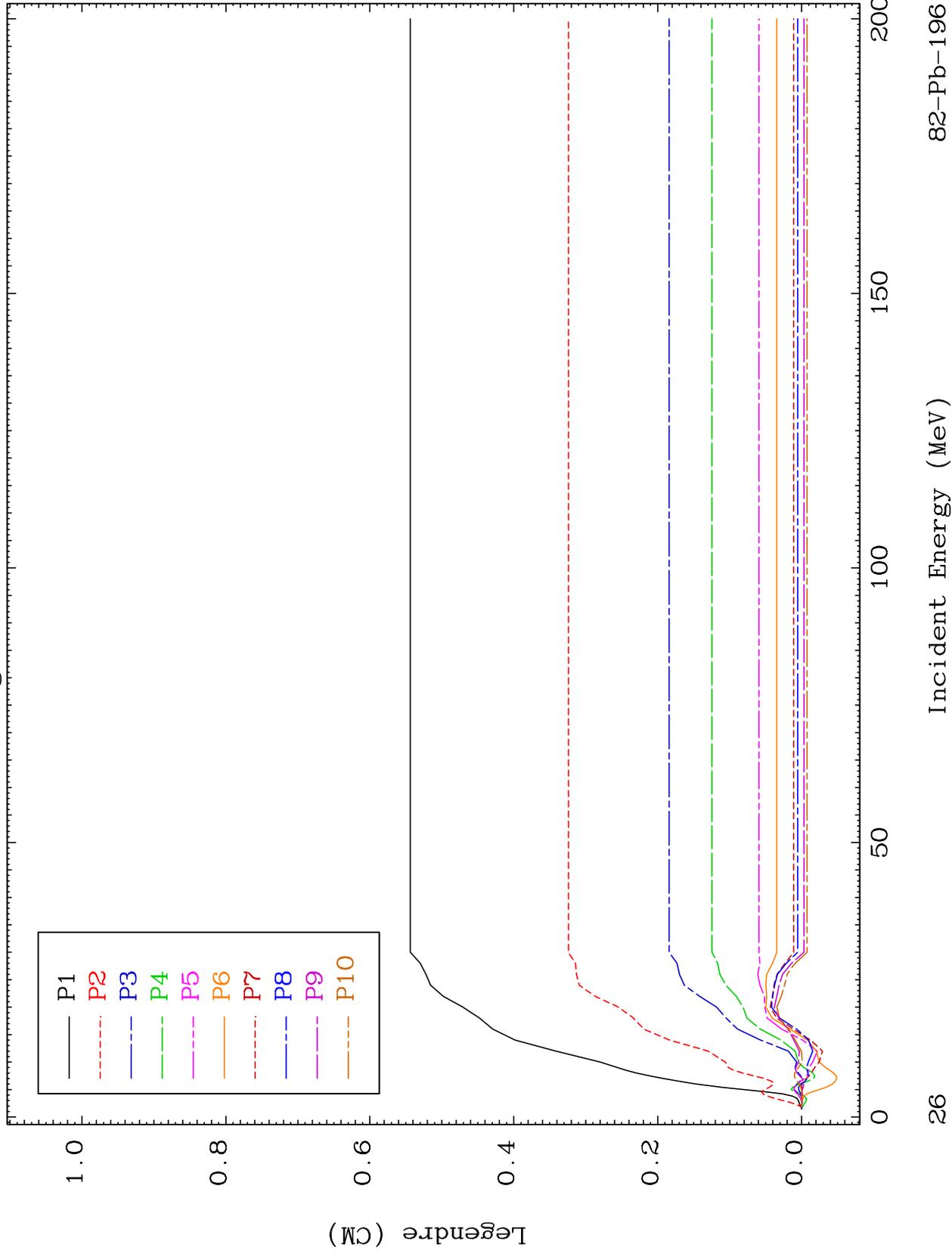
82-Pb-196



MAT 8201

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

82-Pb-196

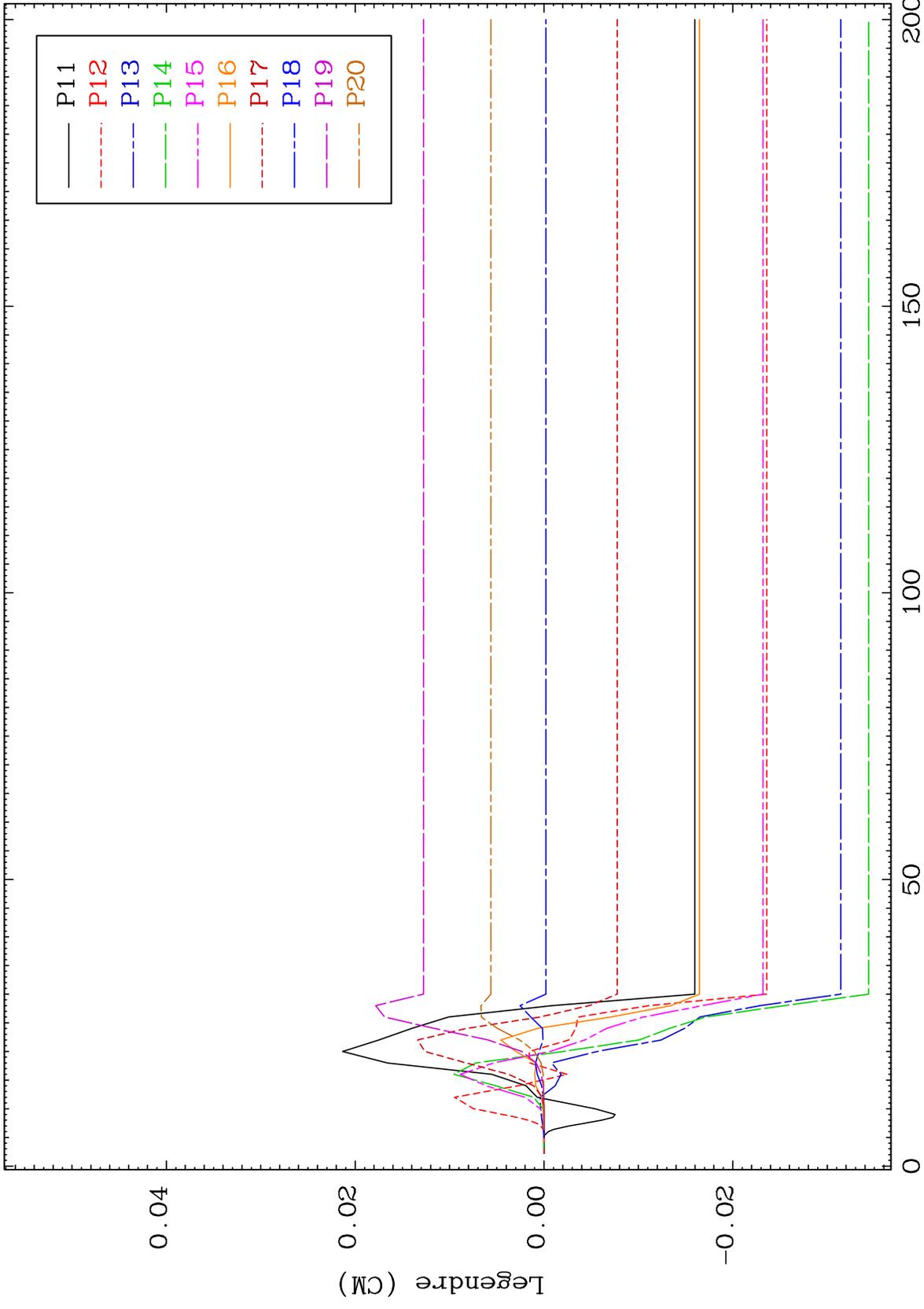


26

MAT 8201

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

82-Pb-196



27

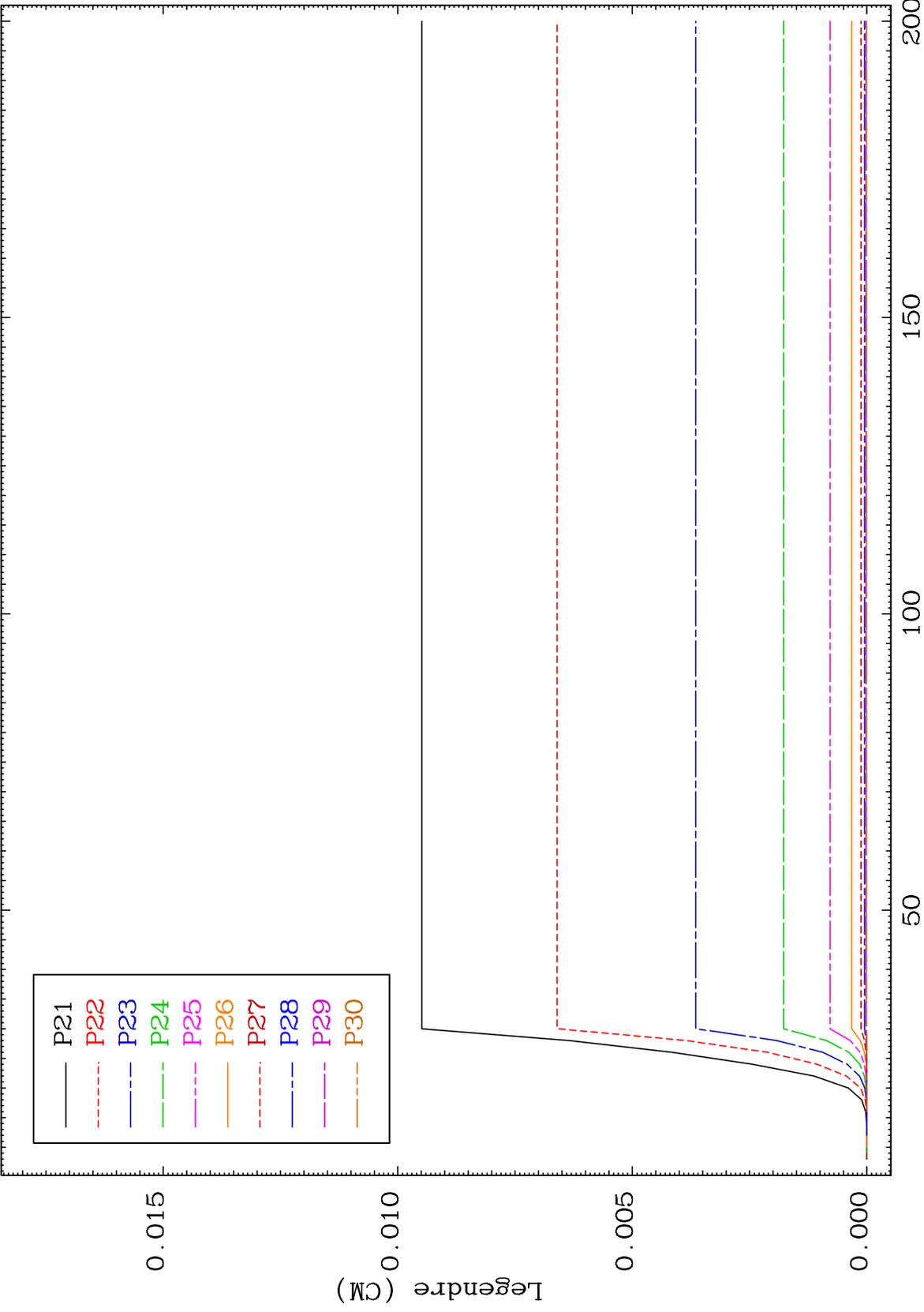
Incident Energy (MeV)

82-Pb-196

MAT 8201

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

82-Pb-196



28

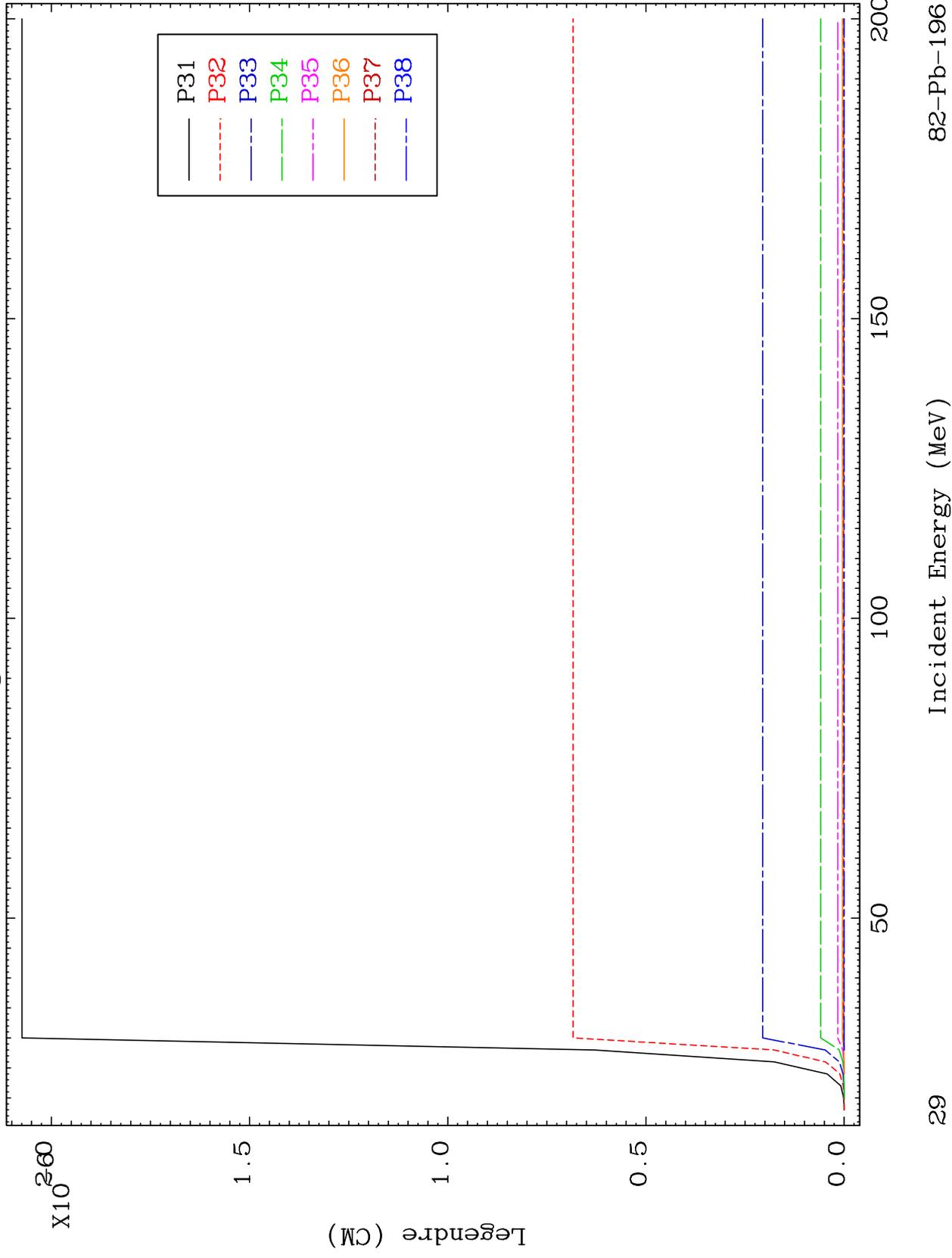
Incident Energy (MeV)

82-Pb-196

MAT 8201

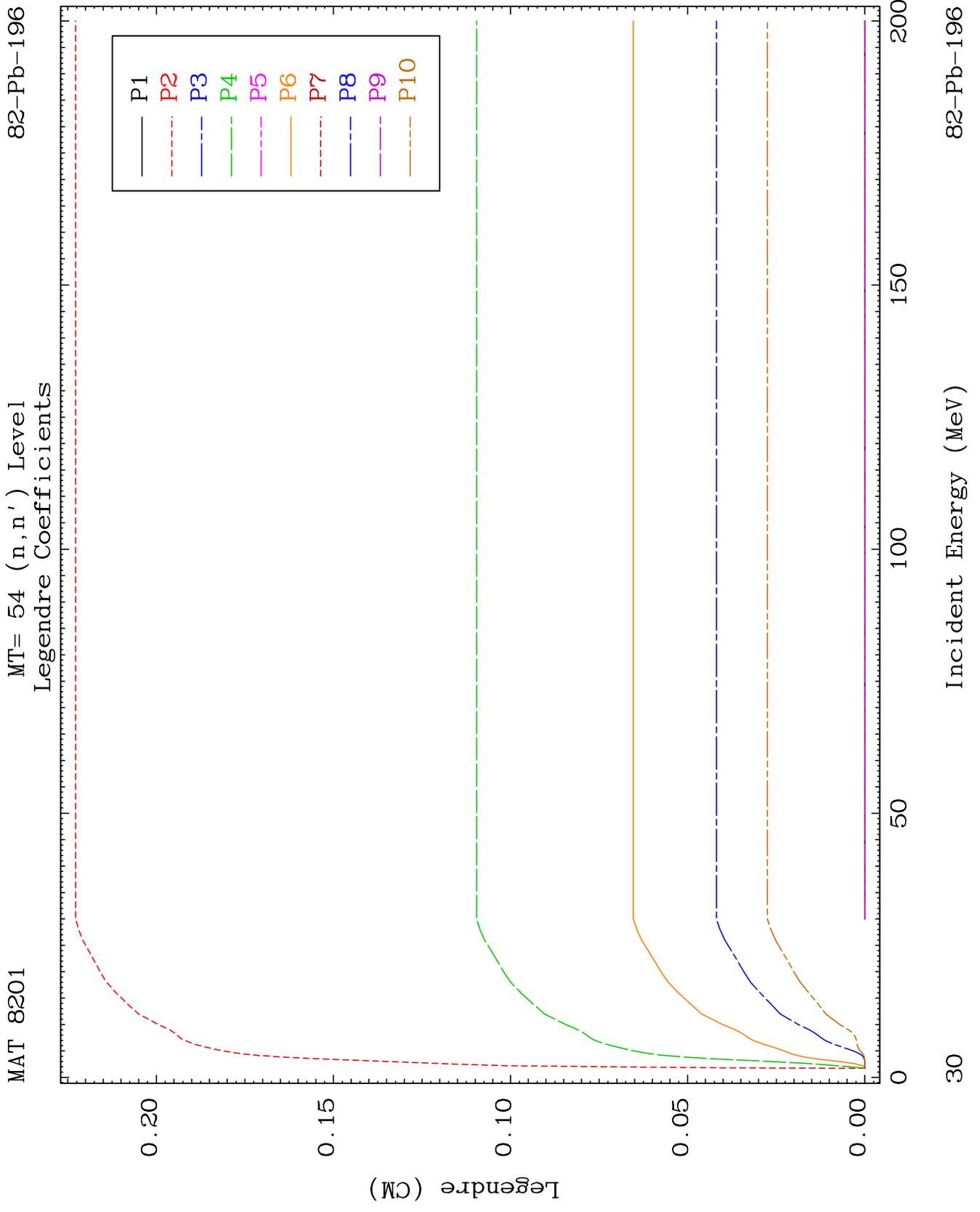
MT= 53 (n,n') Level
Legendre Coefficients

82-Pb-196



29

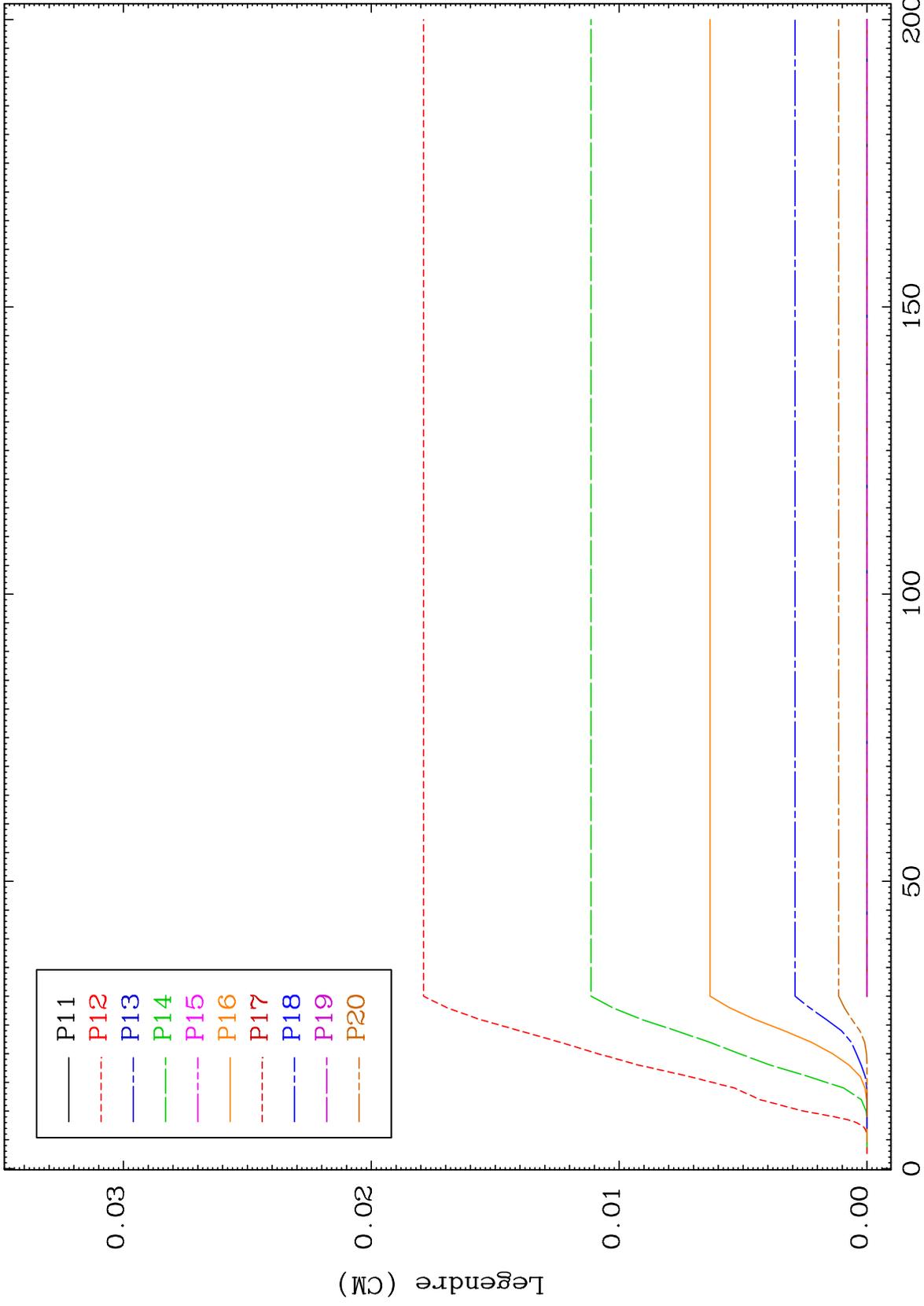
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MAT 8201

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

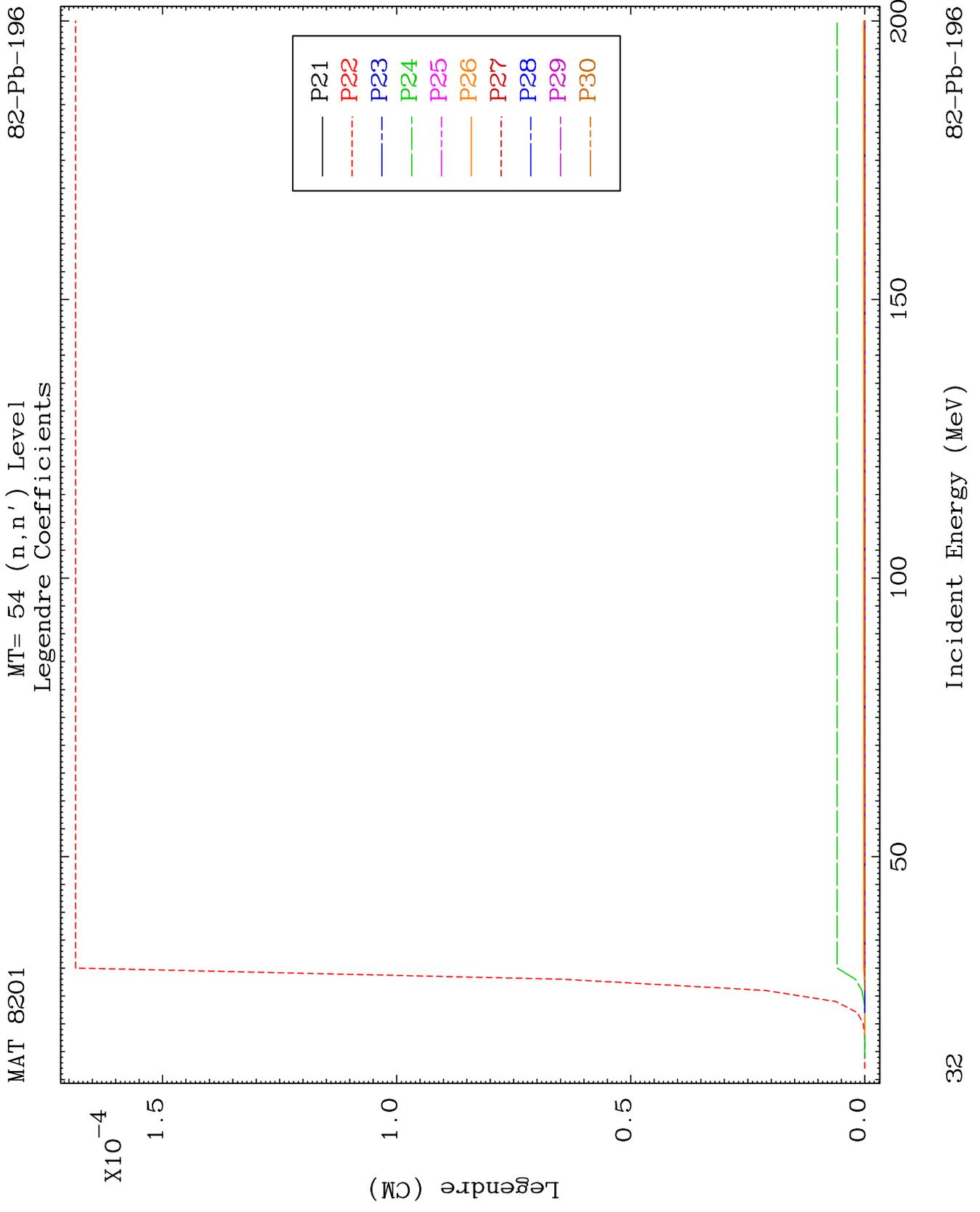
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31

Incident Energy (MeV)

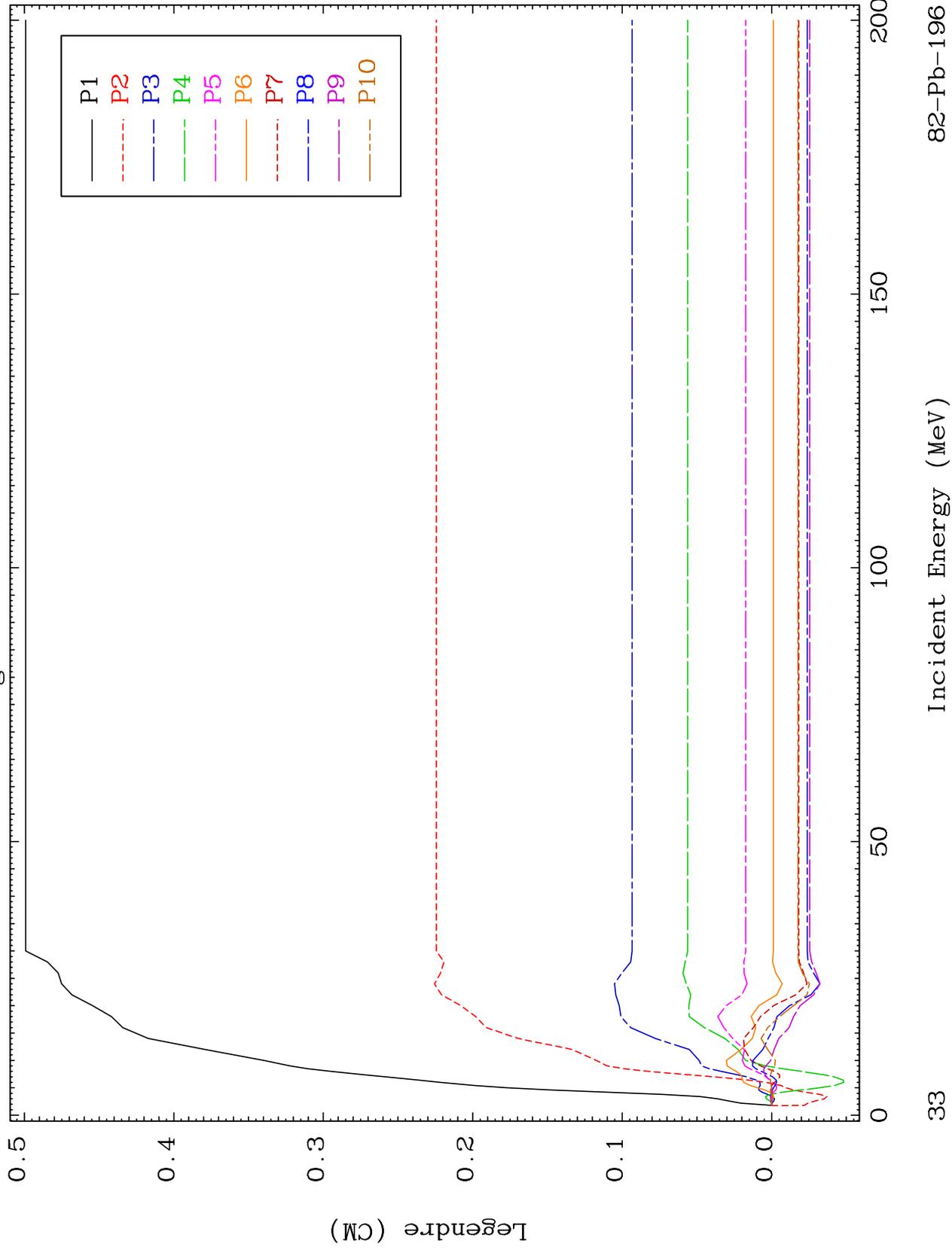
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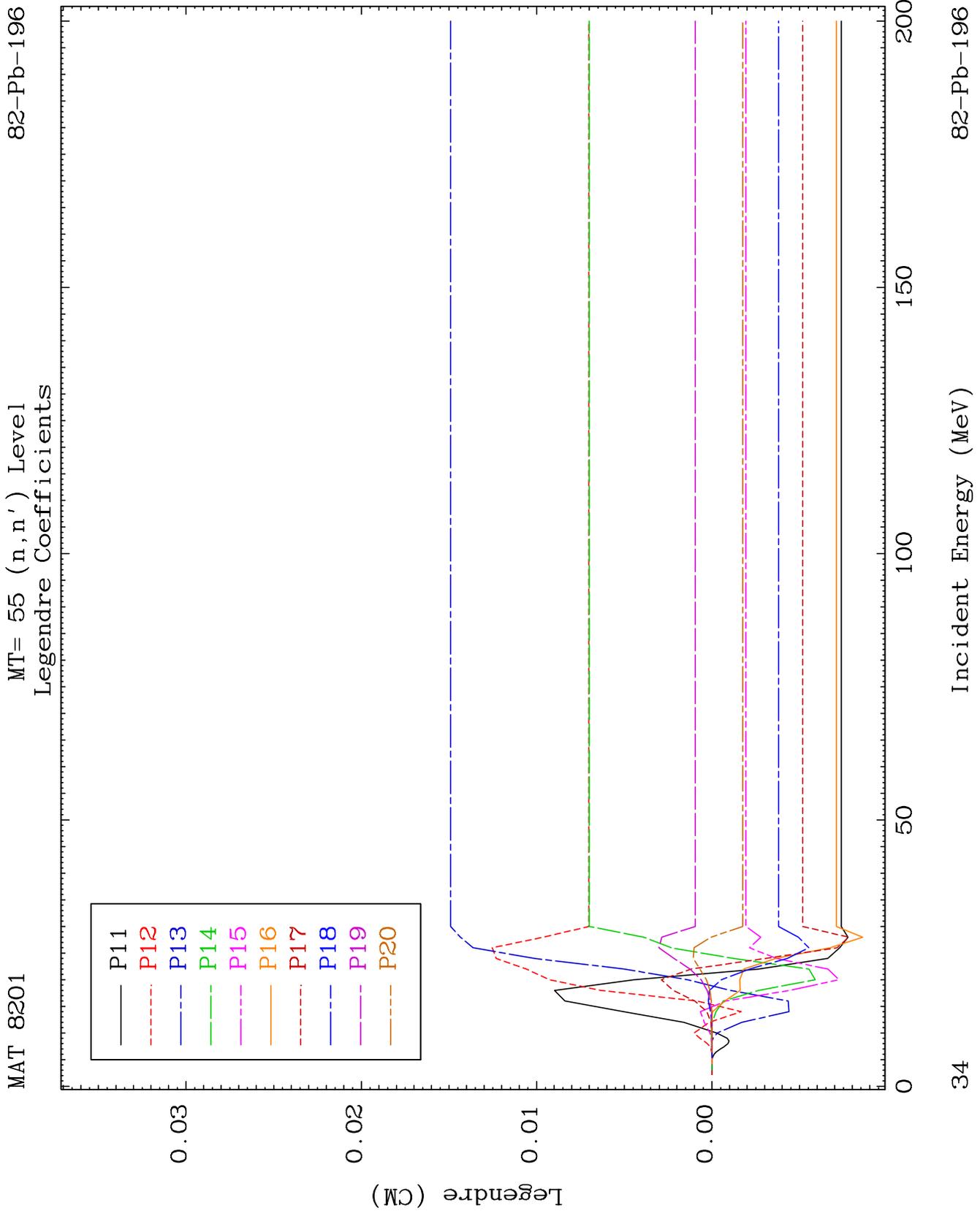


MAT 8201

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

82-Pb-196

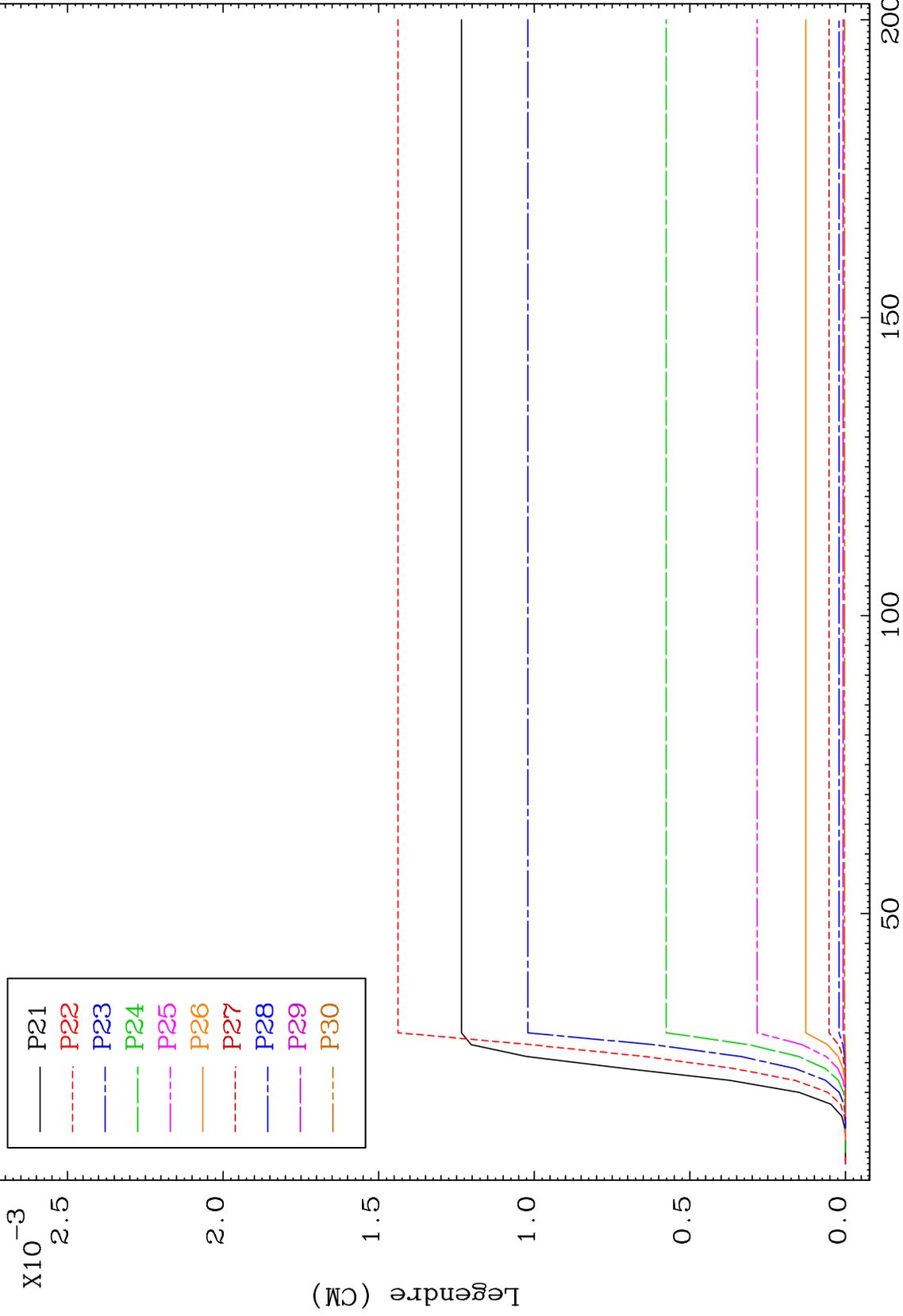
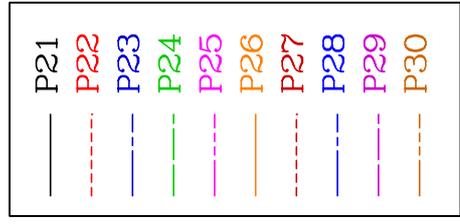




MAT 8201

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

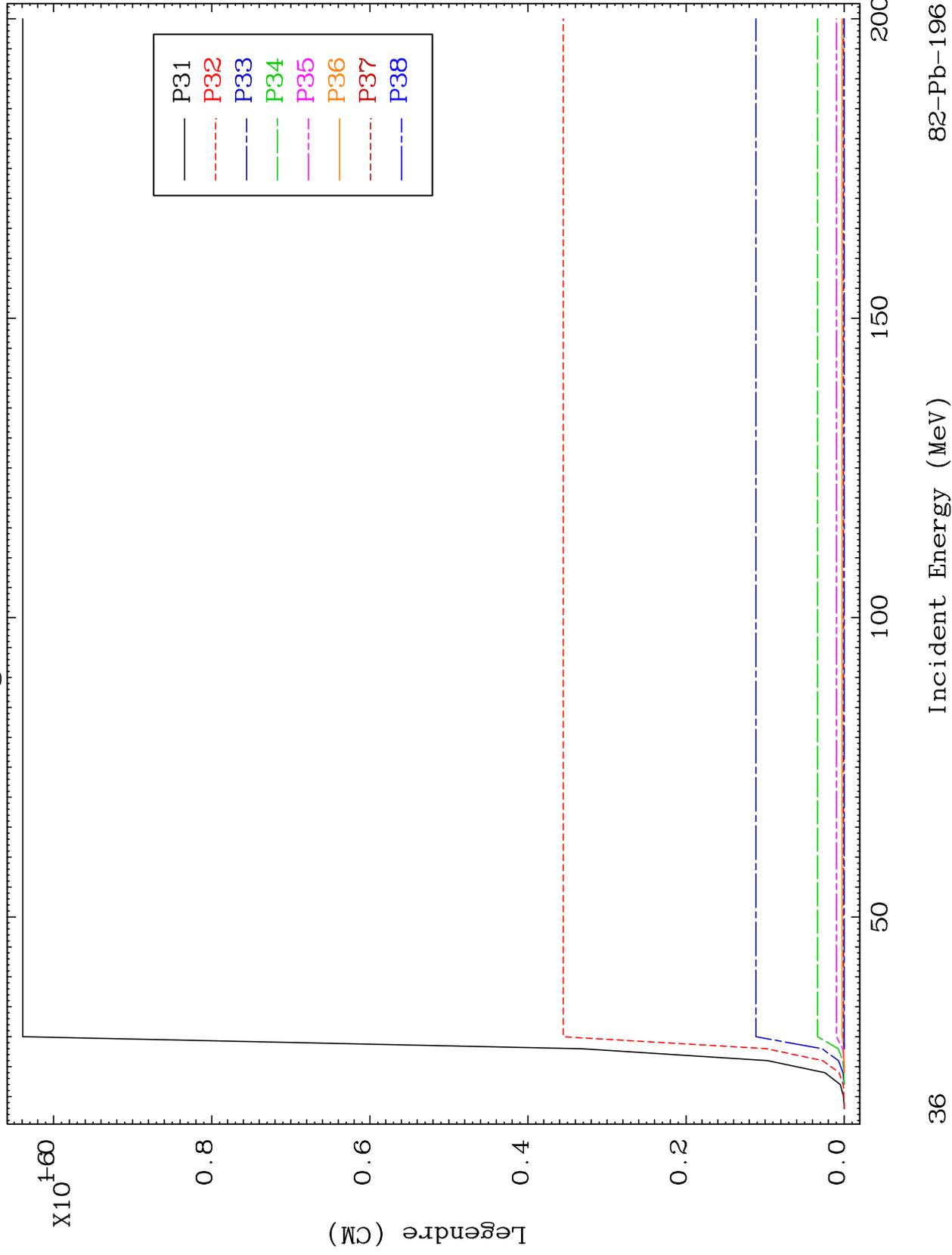
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35

Incident Energy (MeV)

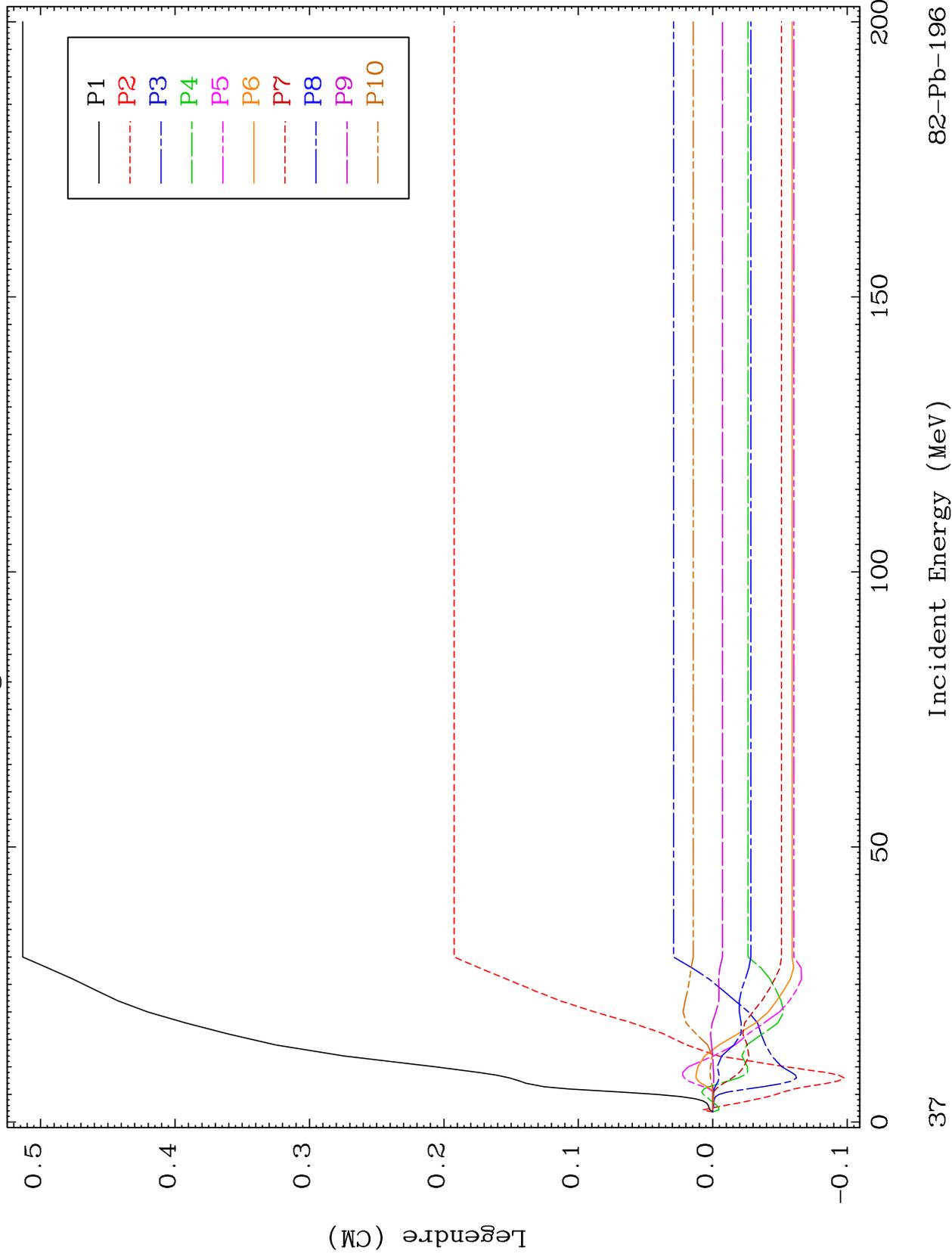
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MAT 8201

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

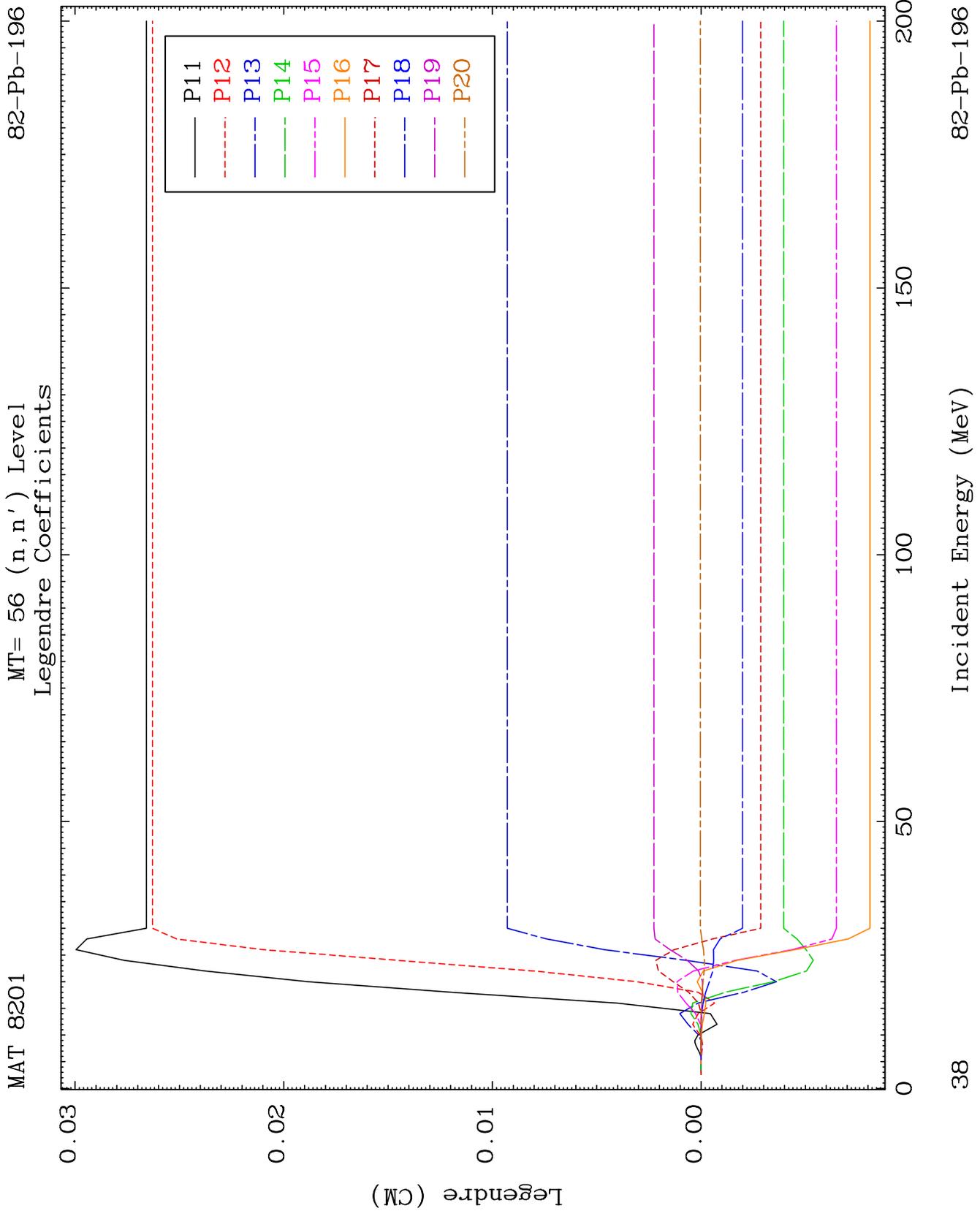
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82-Pb-196

Incident Energy (MeV)

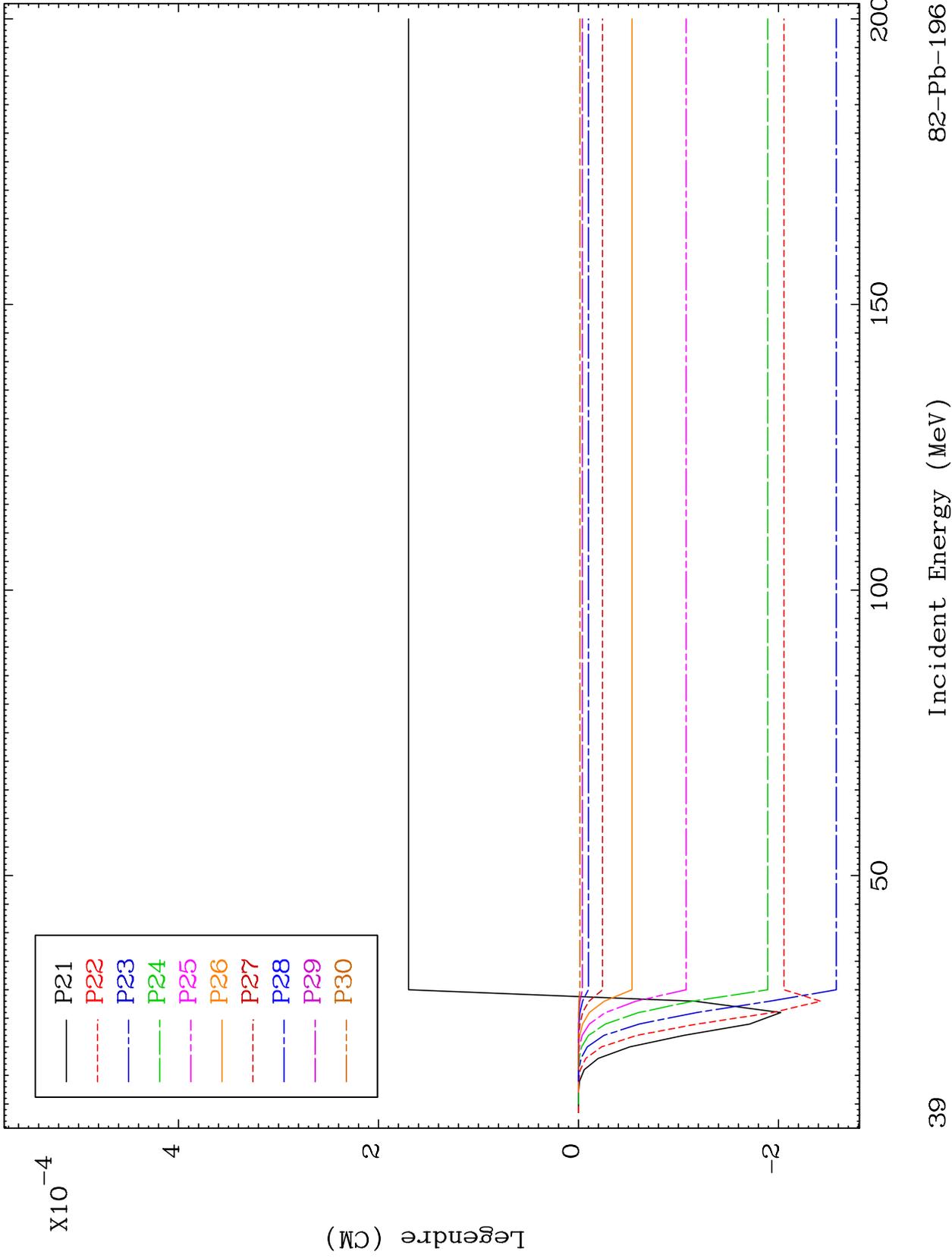
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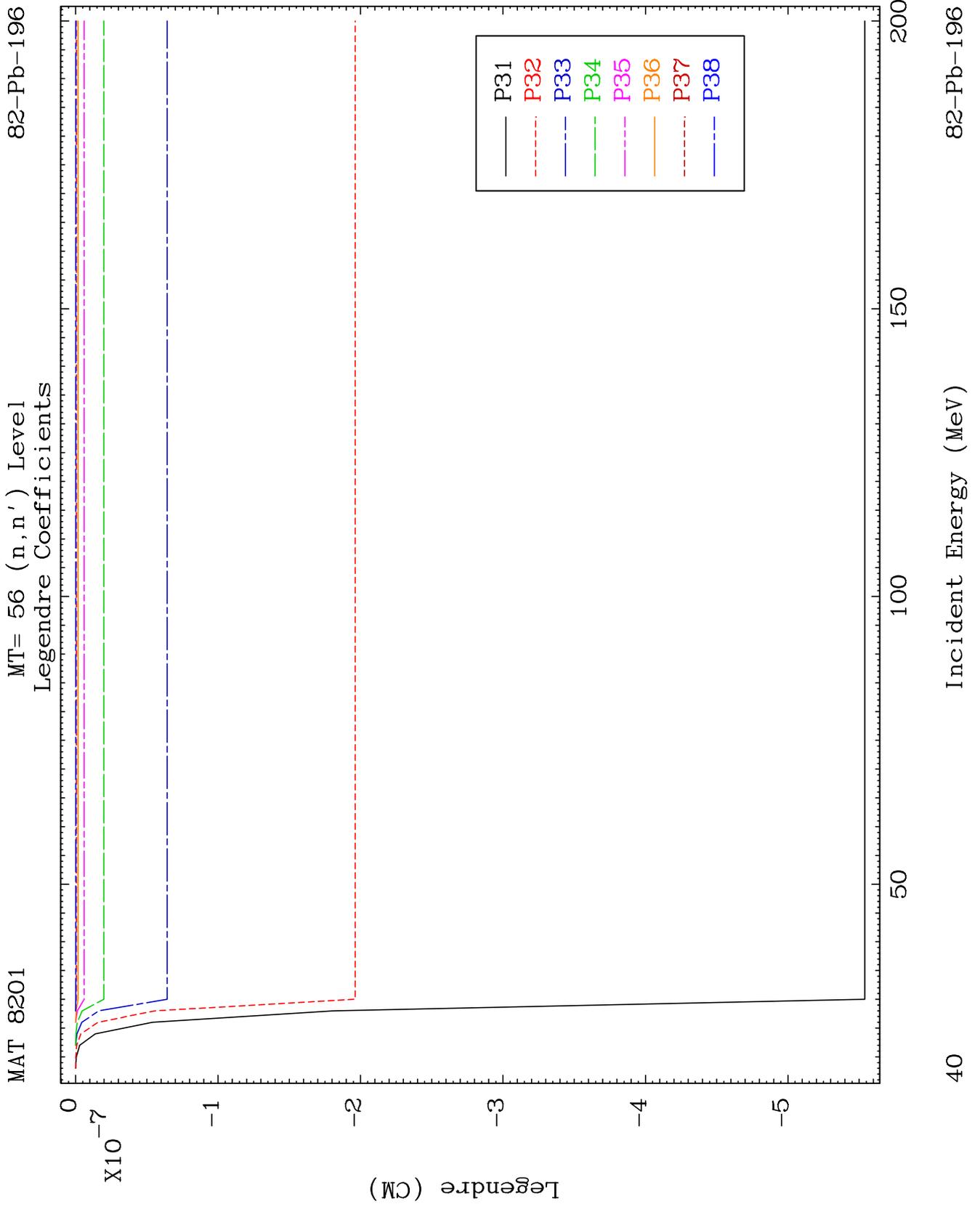


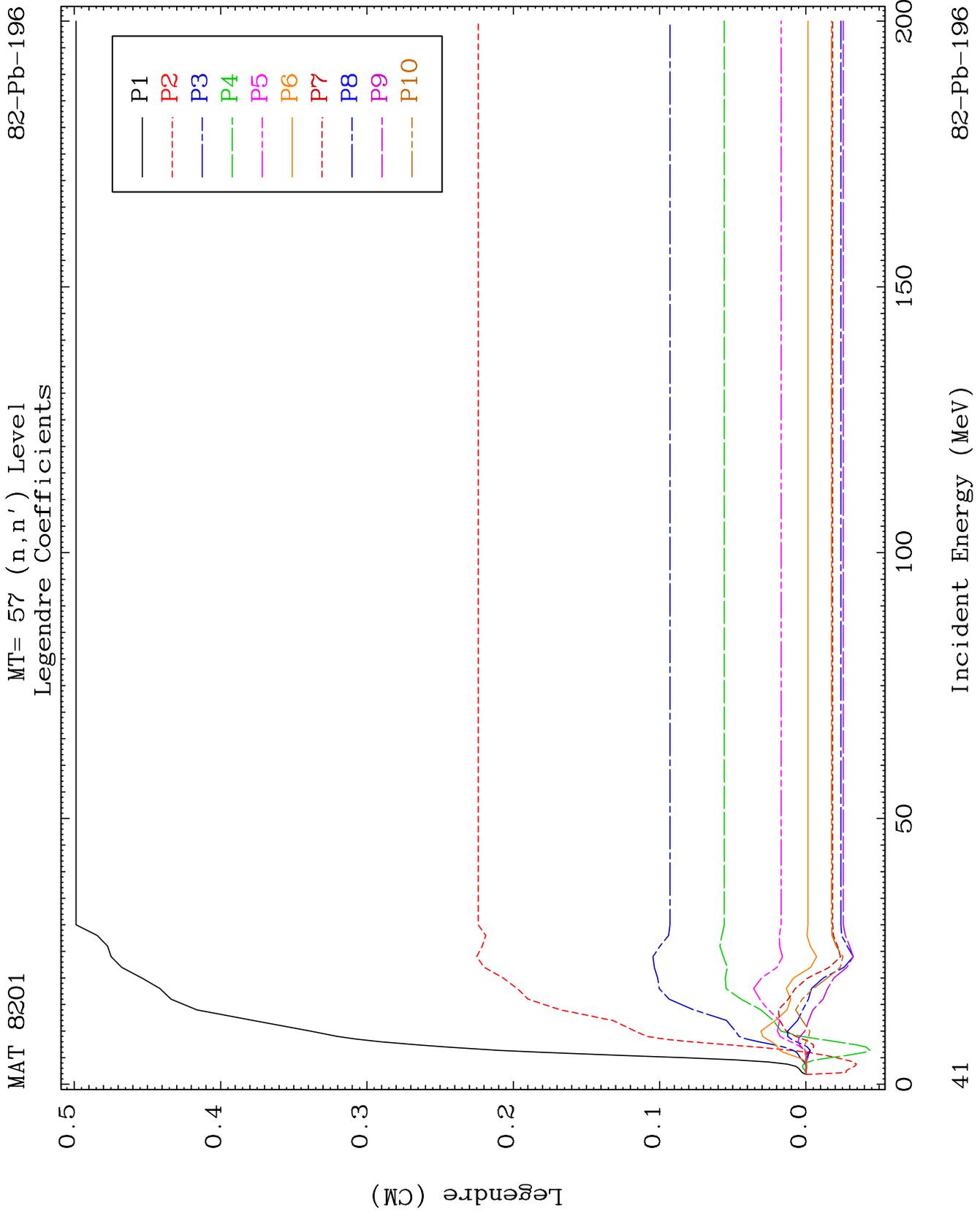
MAT 8201

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

82-Pb-196



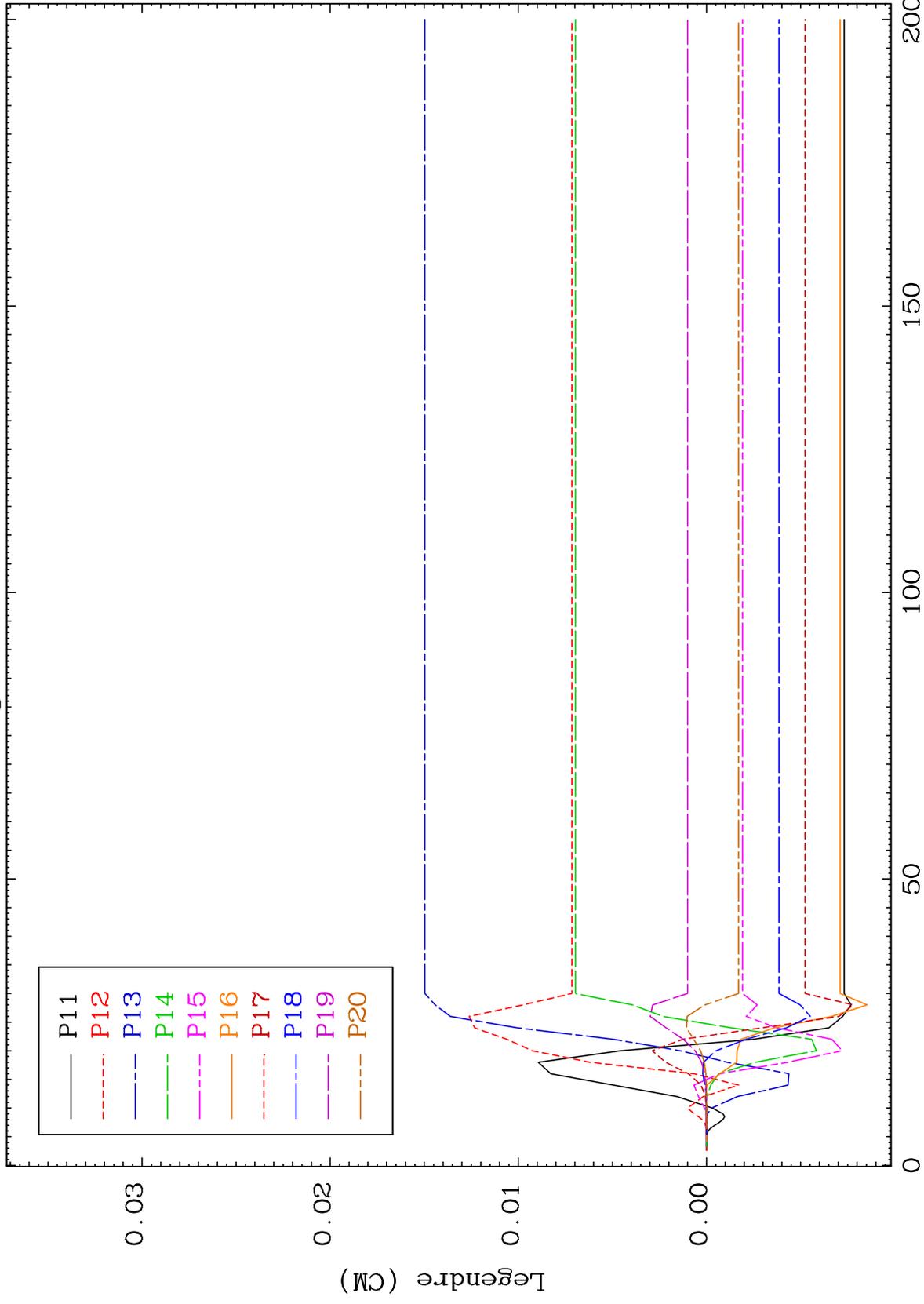




MAT 8201

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

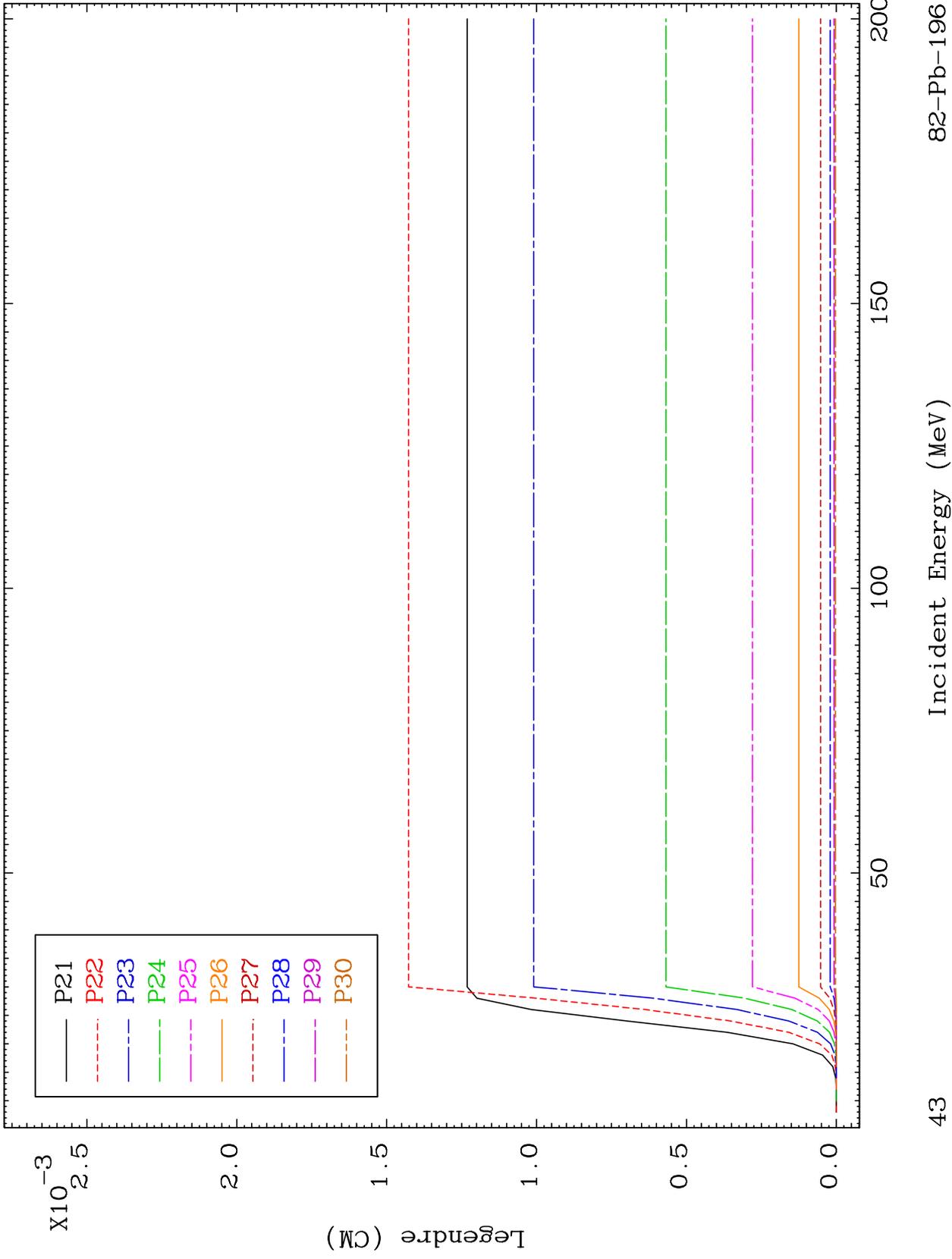
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42

Incident Energy (MeV)

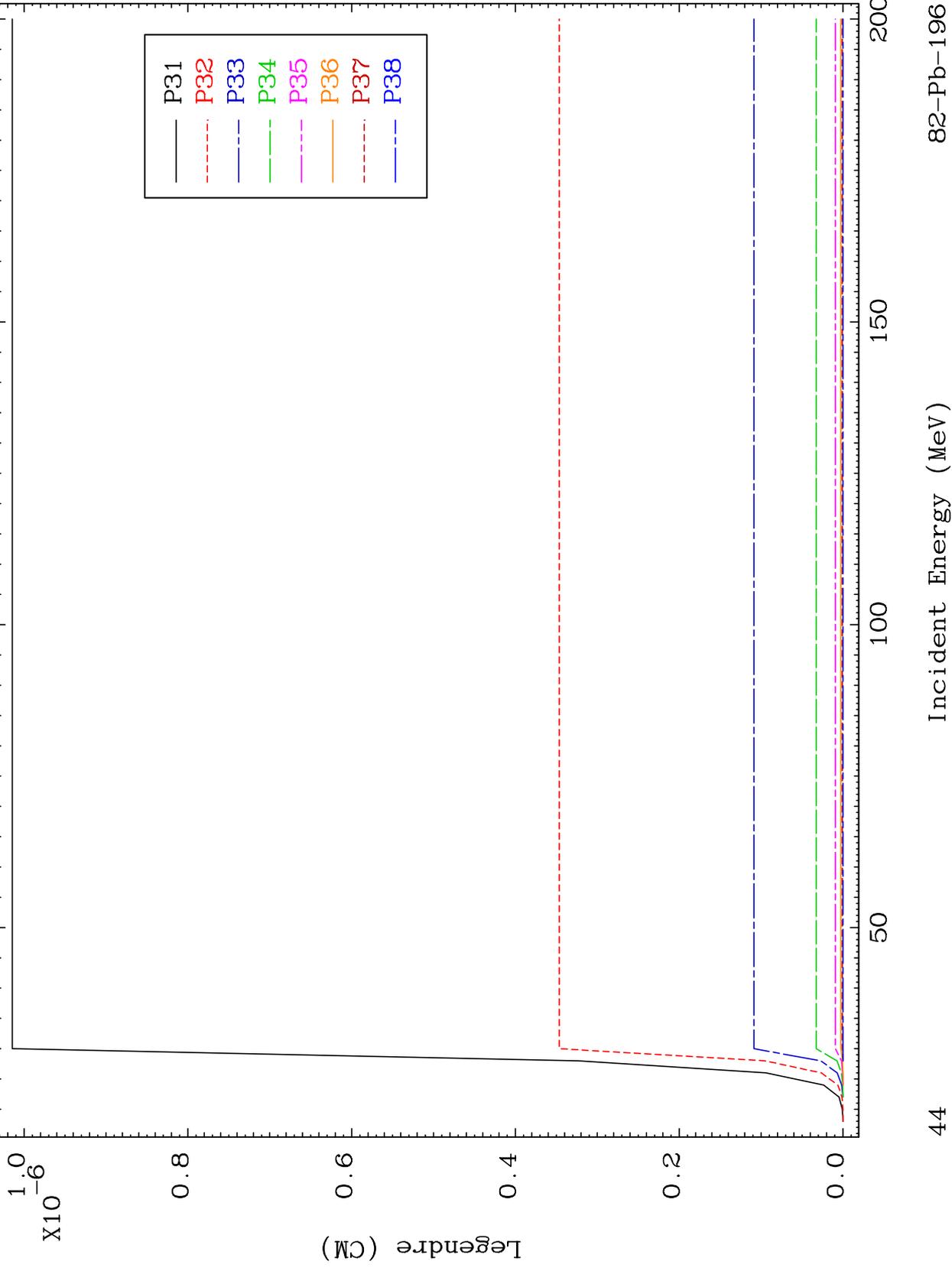
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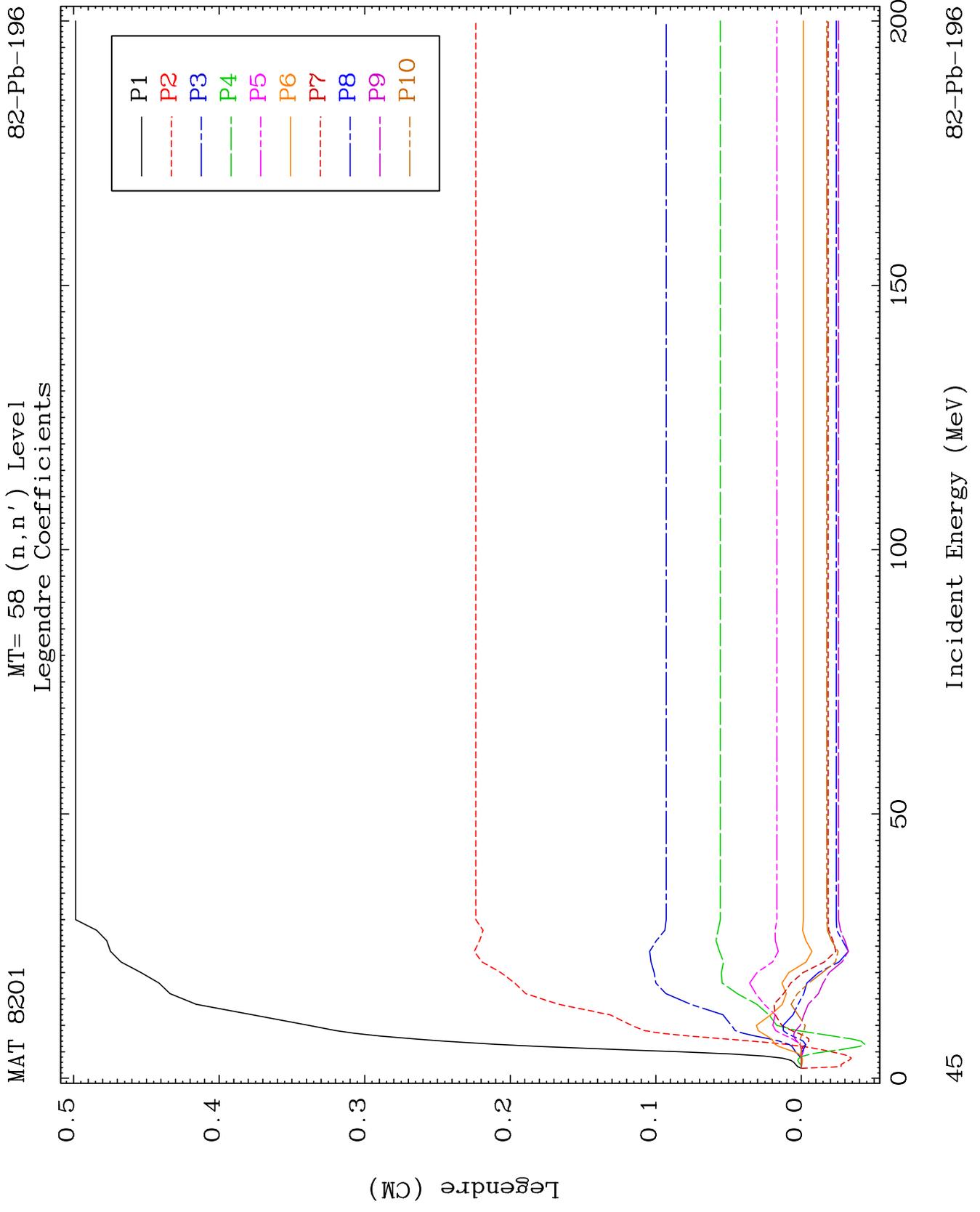


MAT 8201

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

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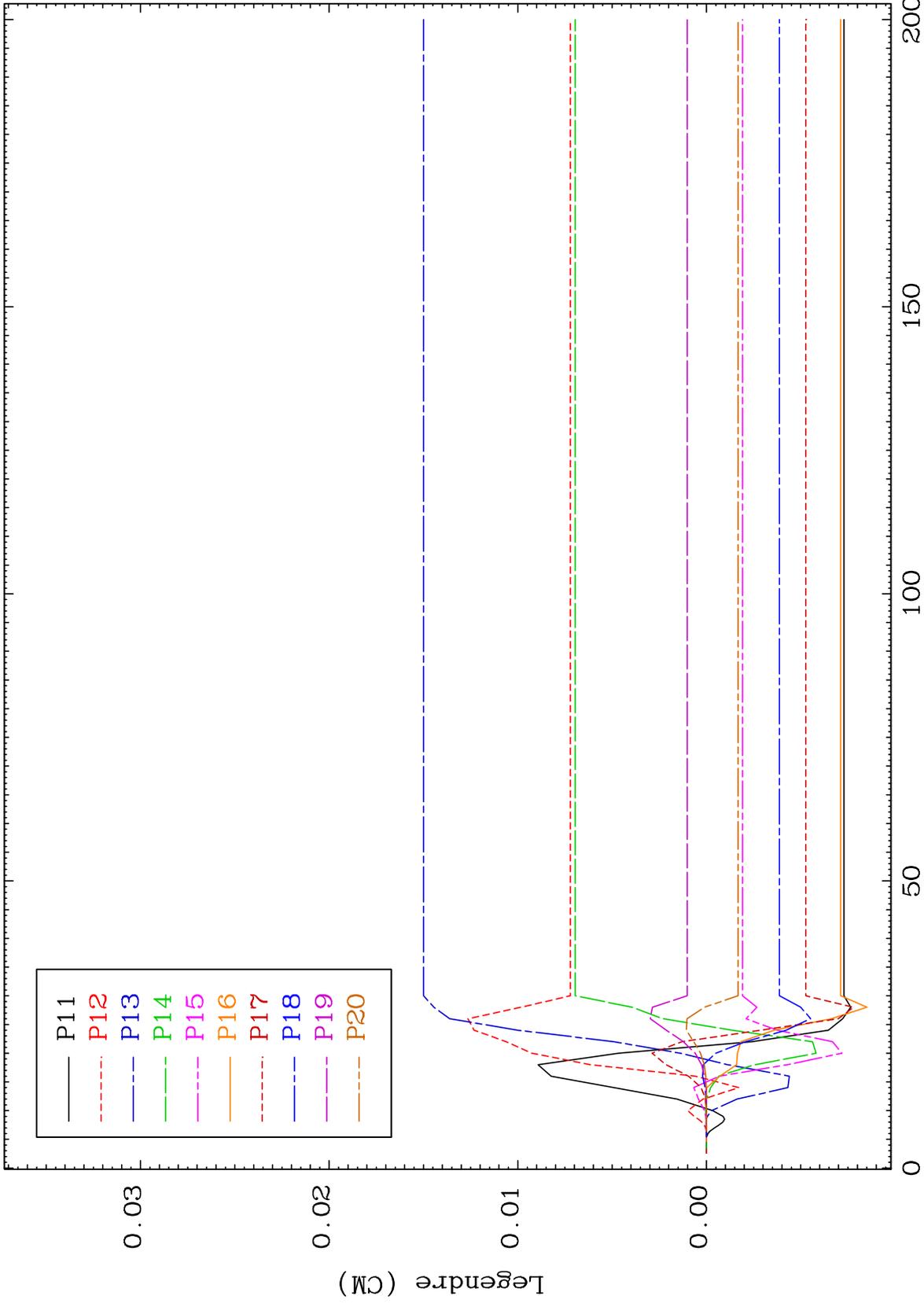




MAT 8201

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

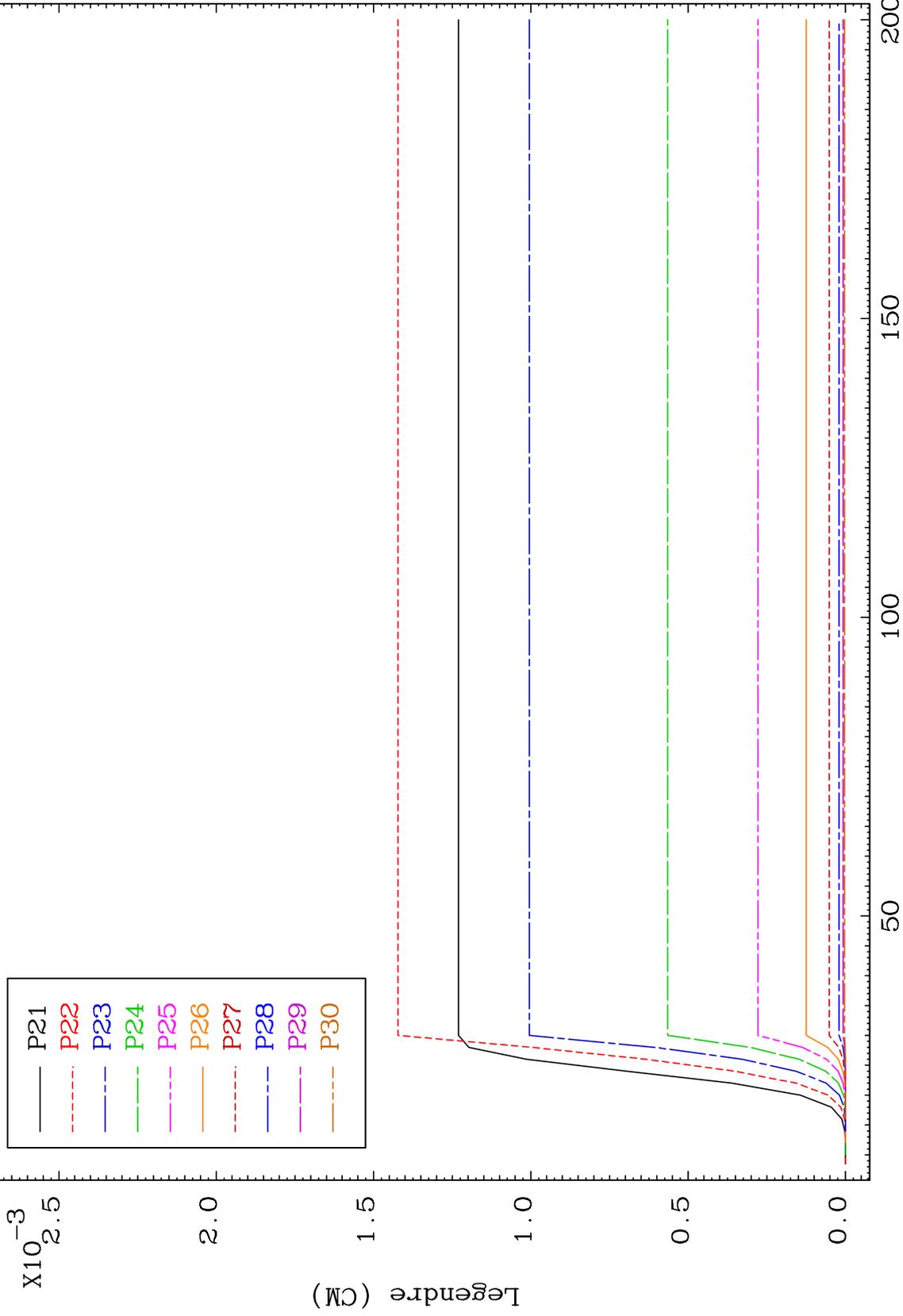
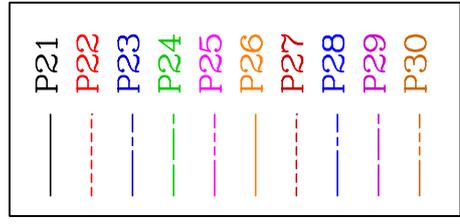
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46

Incident Energy (MeV)

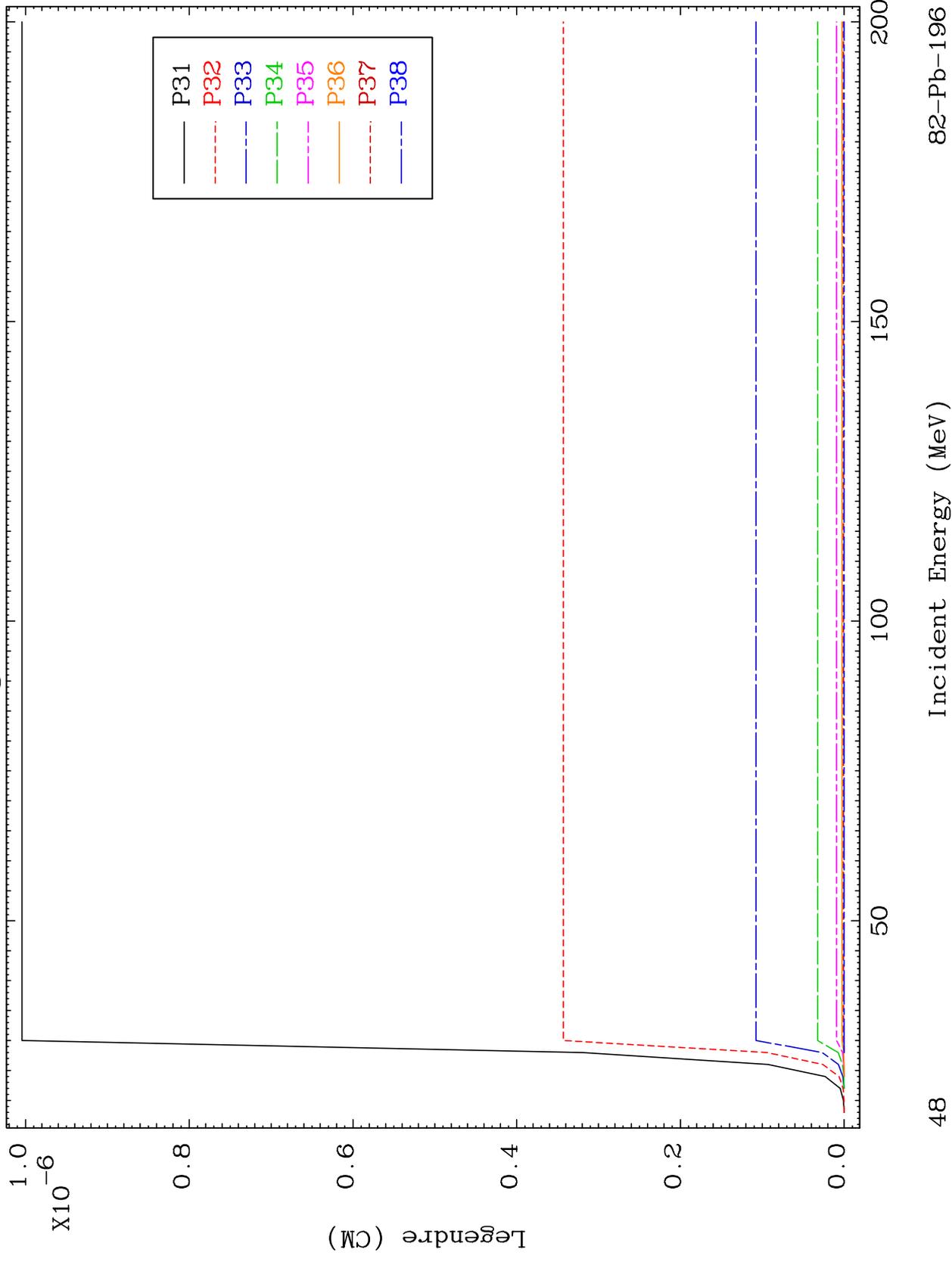
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MAT 8201

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

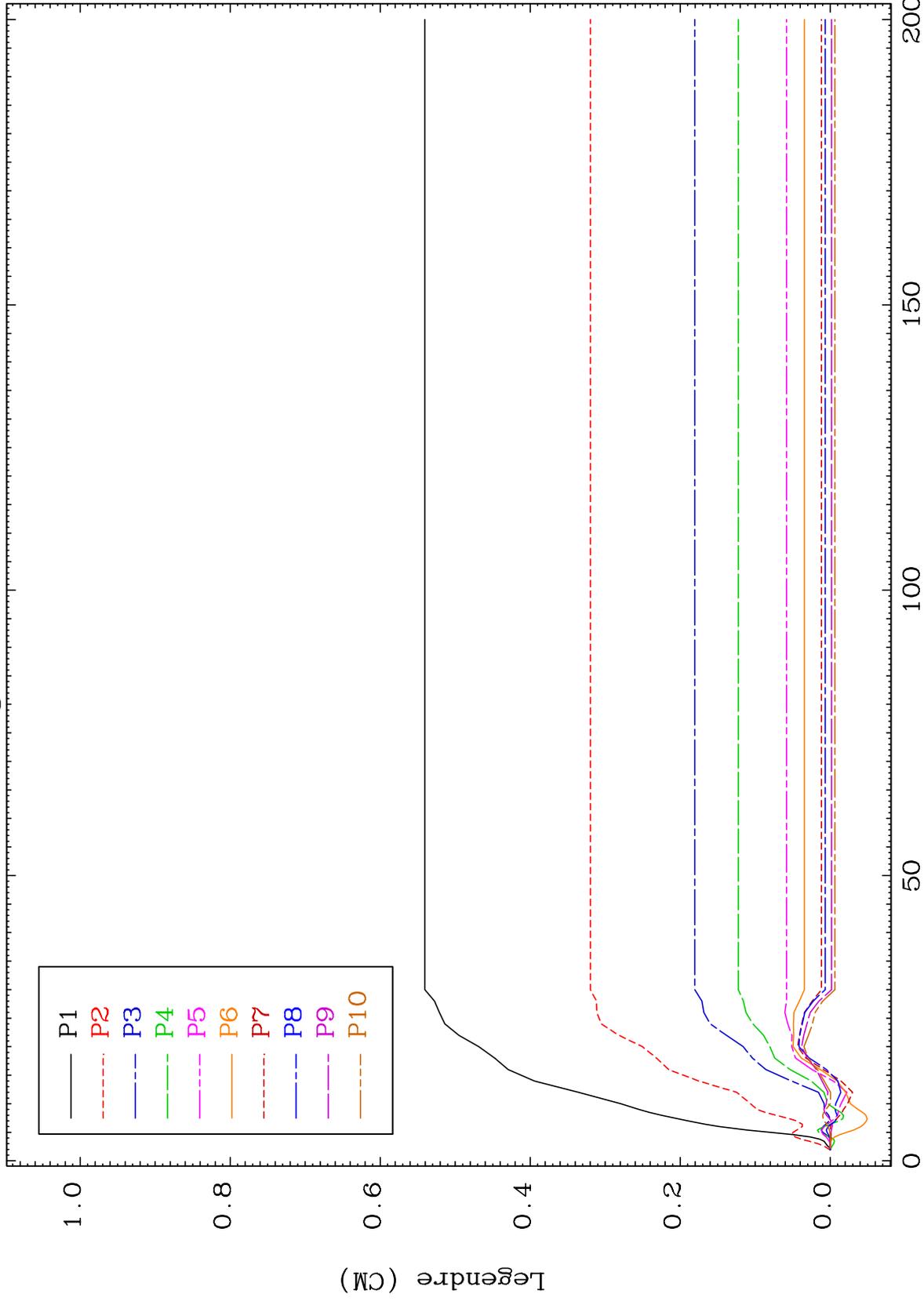
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MAT 8201

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

82-Pb-196



49

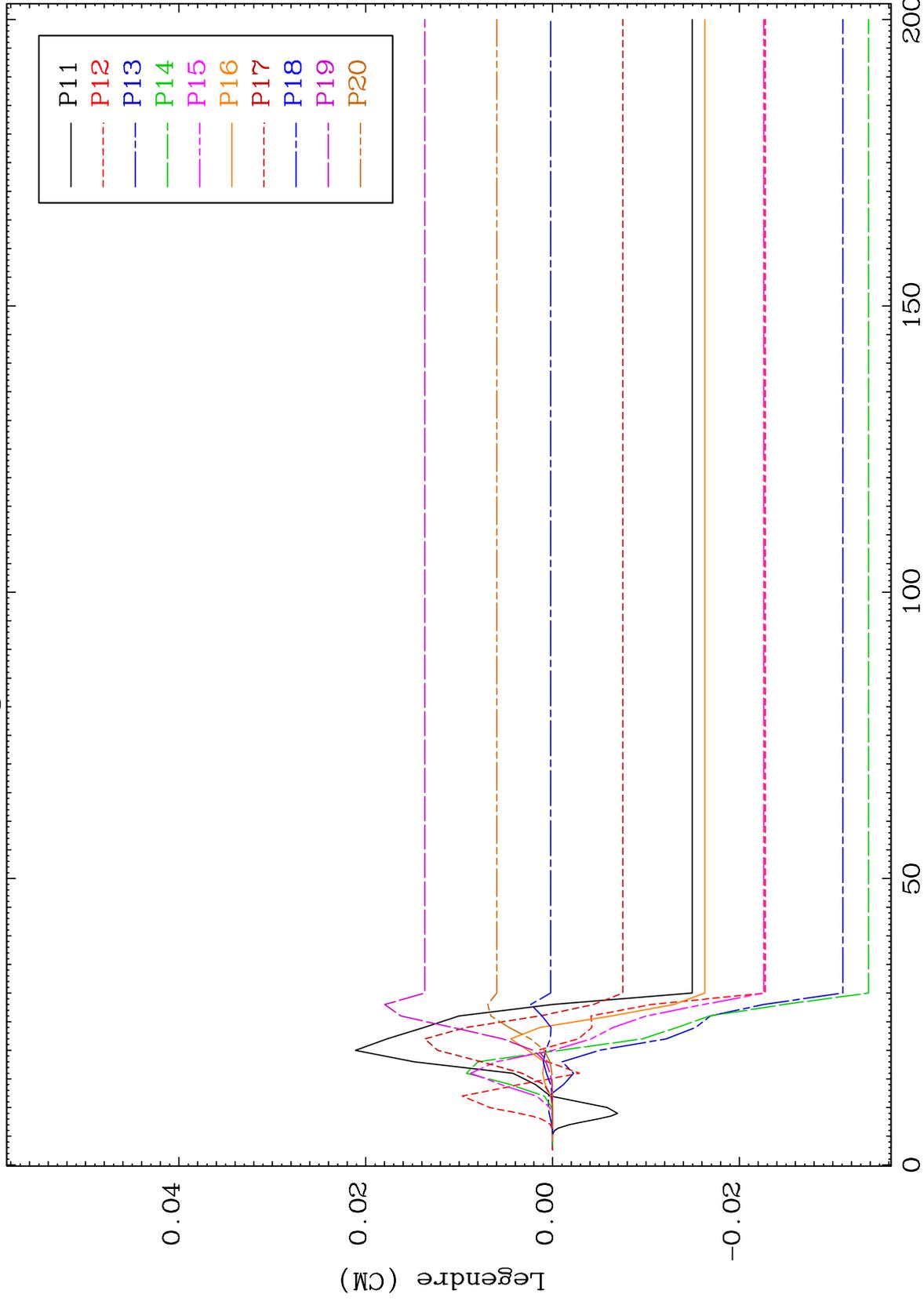
Incident Energy (MeV)

82-Pb-196

MAT 8201

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

82-Pb-196



82-Pb-196

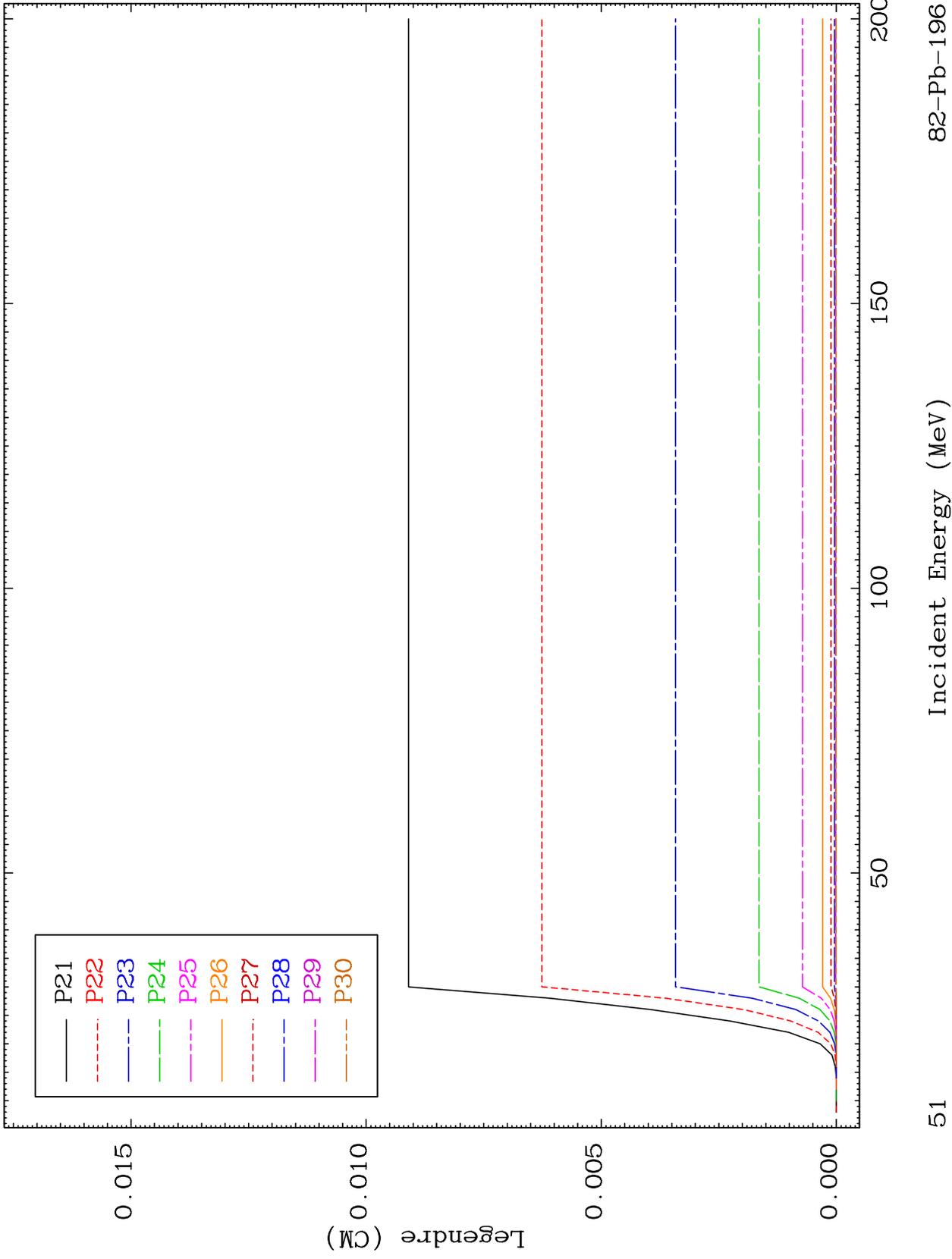
Incident Energy (MeV)

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MAT 8201

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

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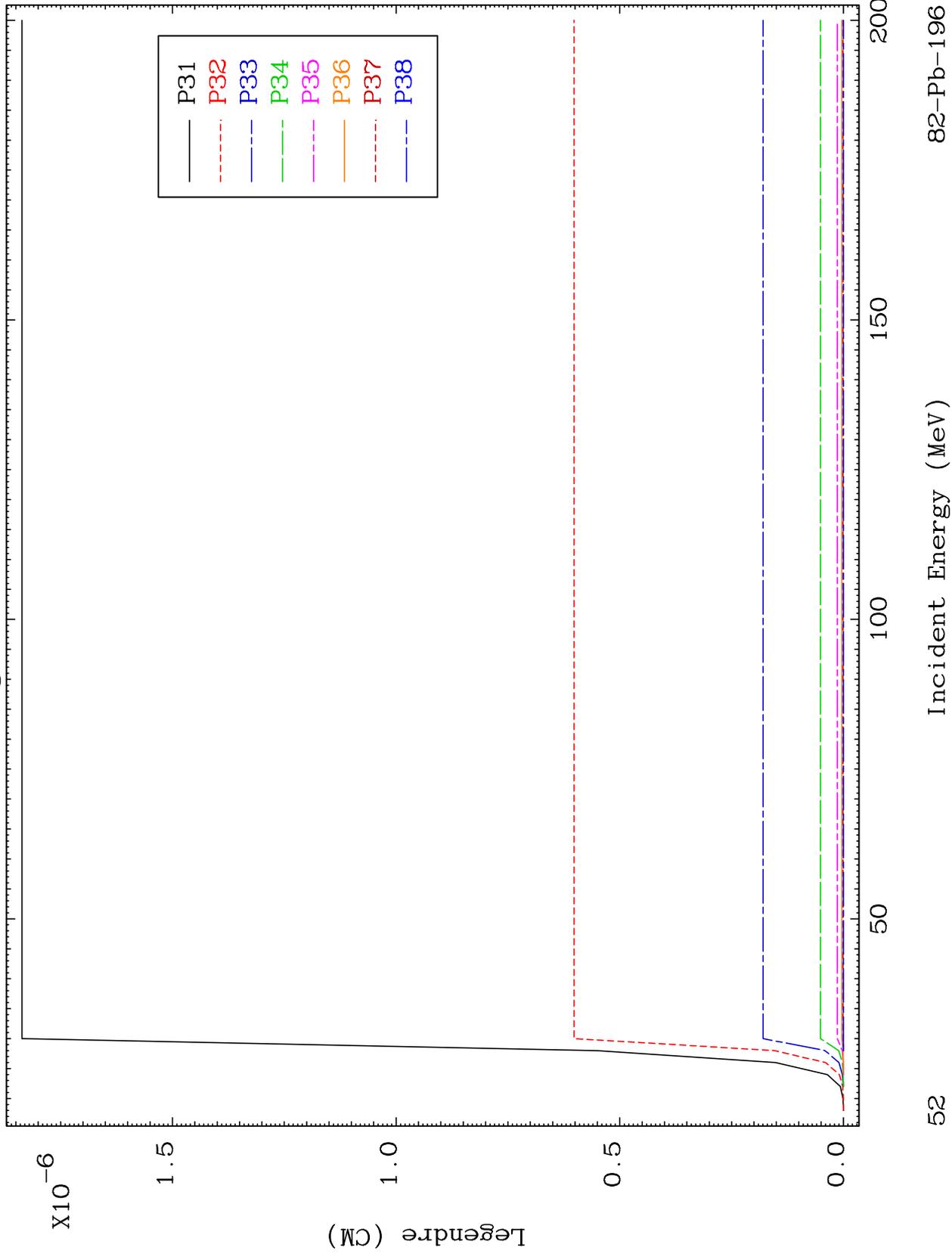
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82-Pb-196

MAT 8201

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

82-Pb-196



52

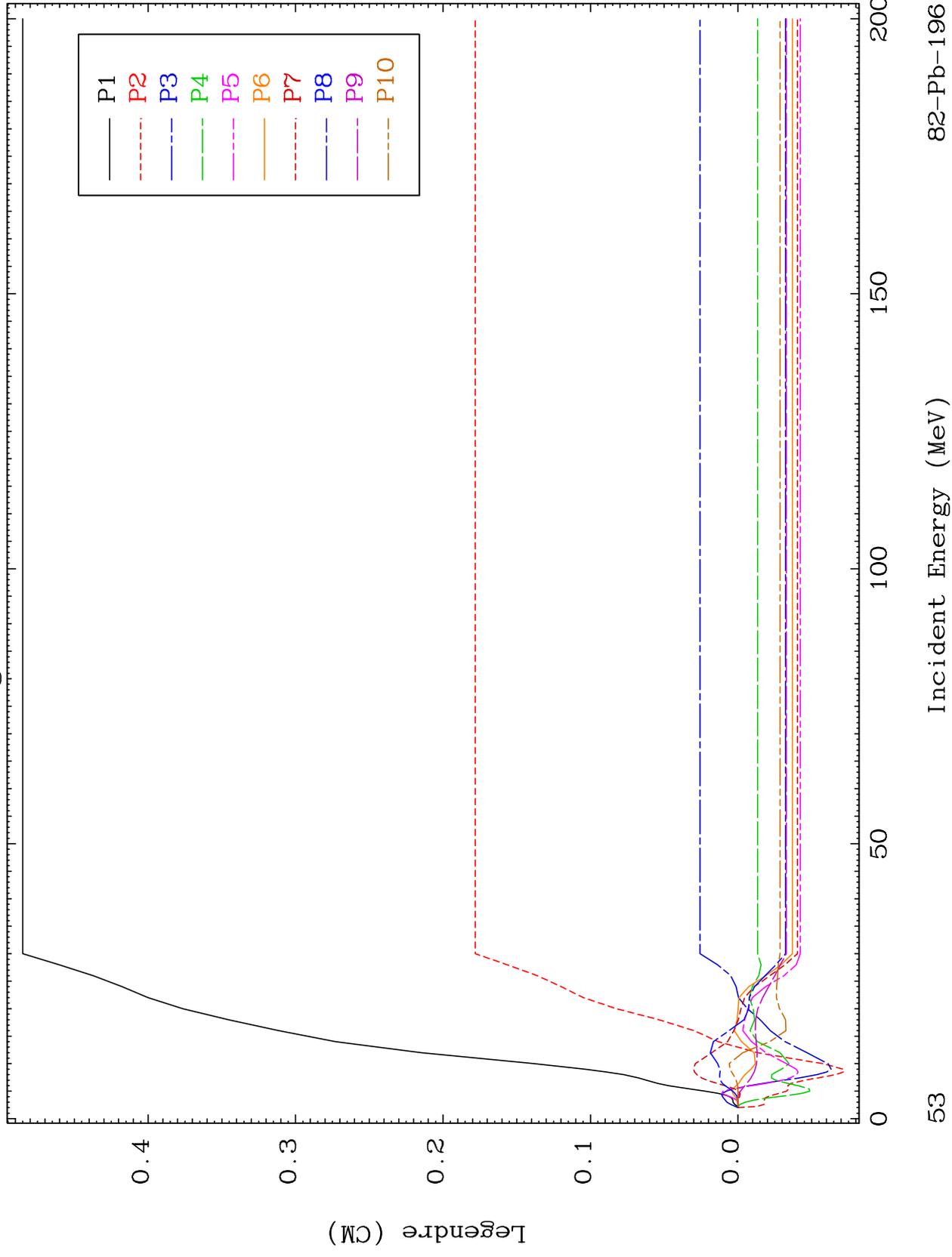
Incident Energy (MeV)

82-Pb-196

MAT 8201

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

82-Pb-196



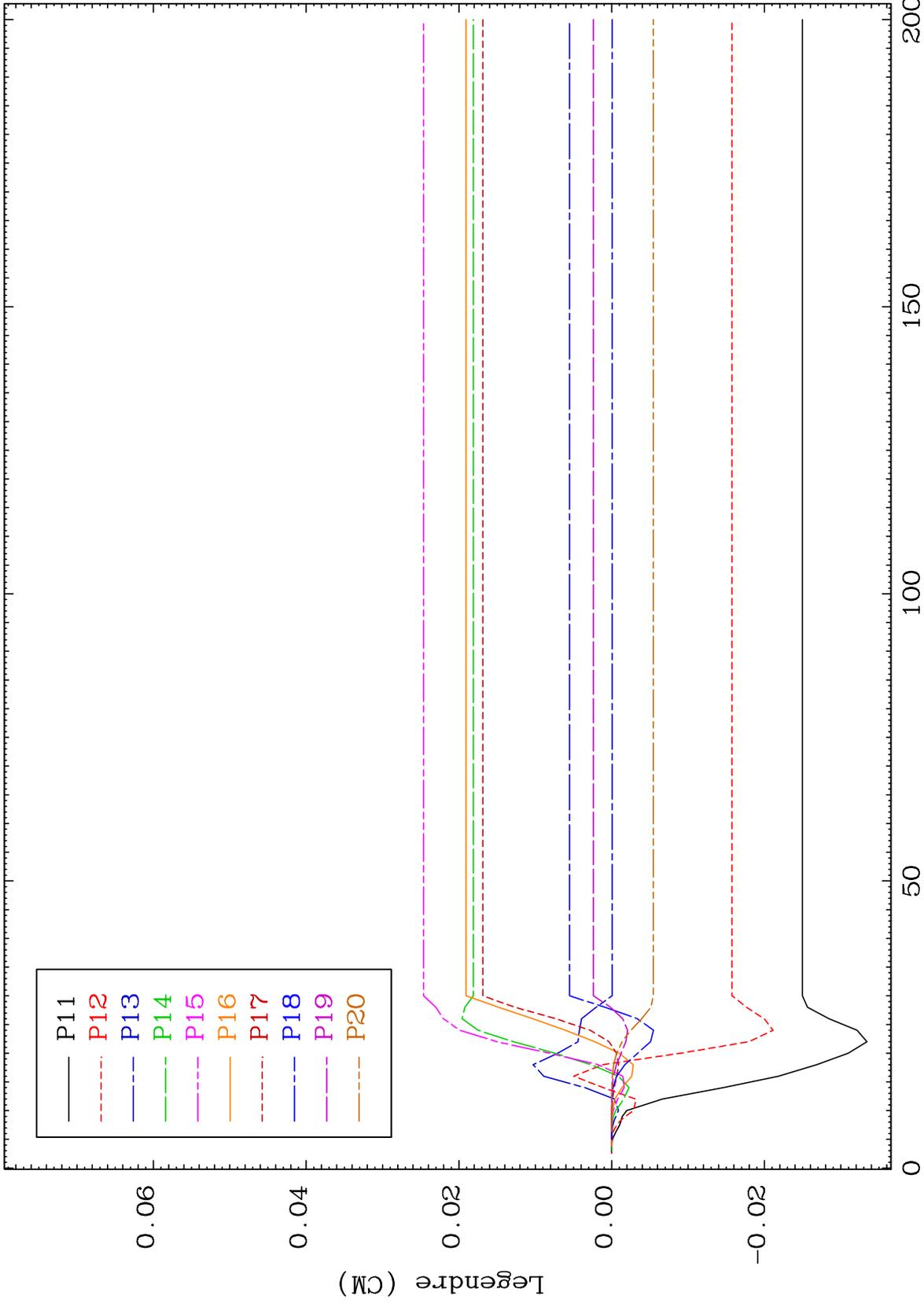
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82-Pb-196

MAT 8201

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

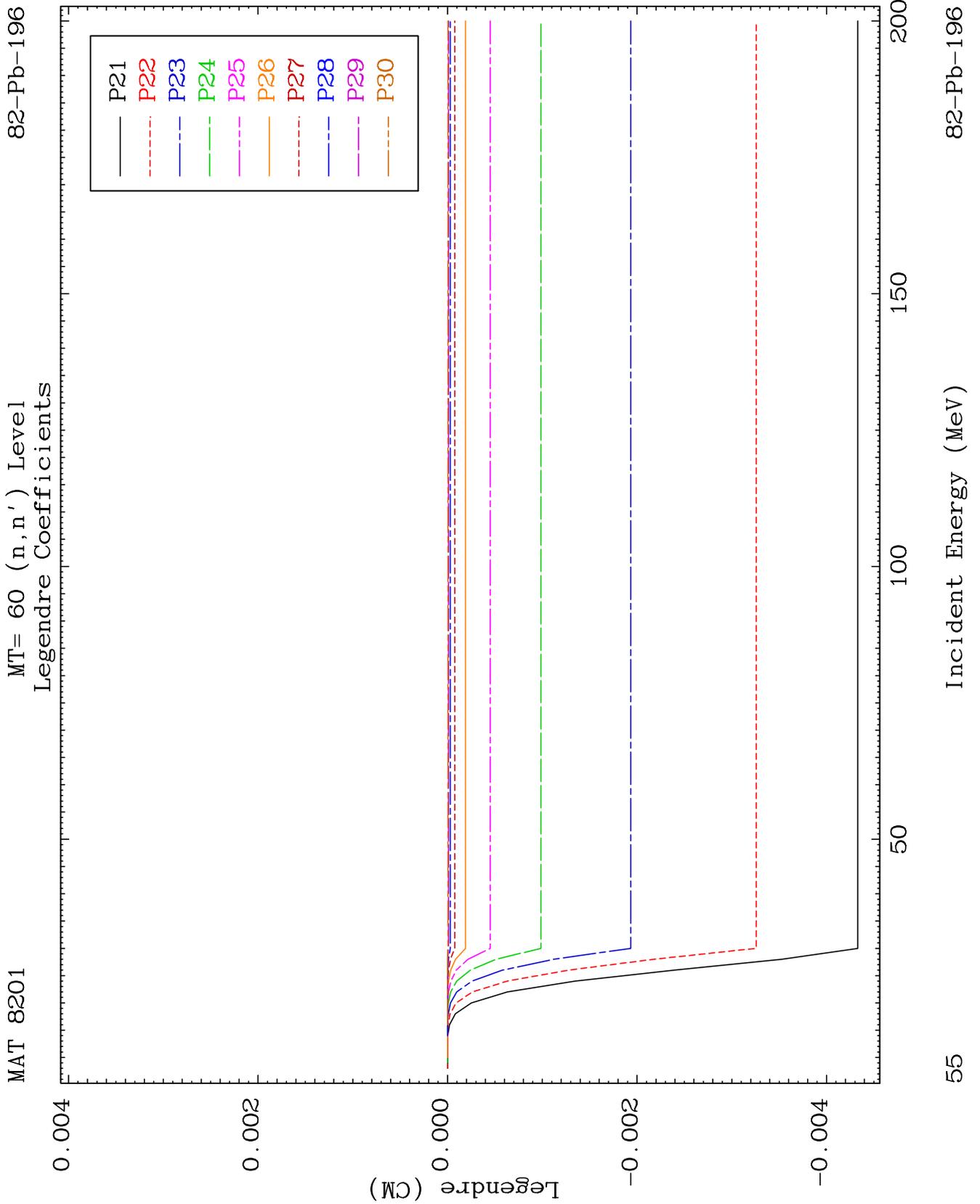
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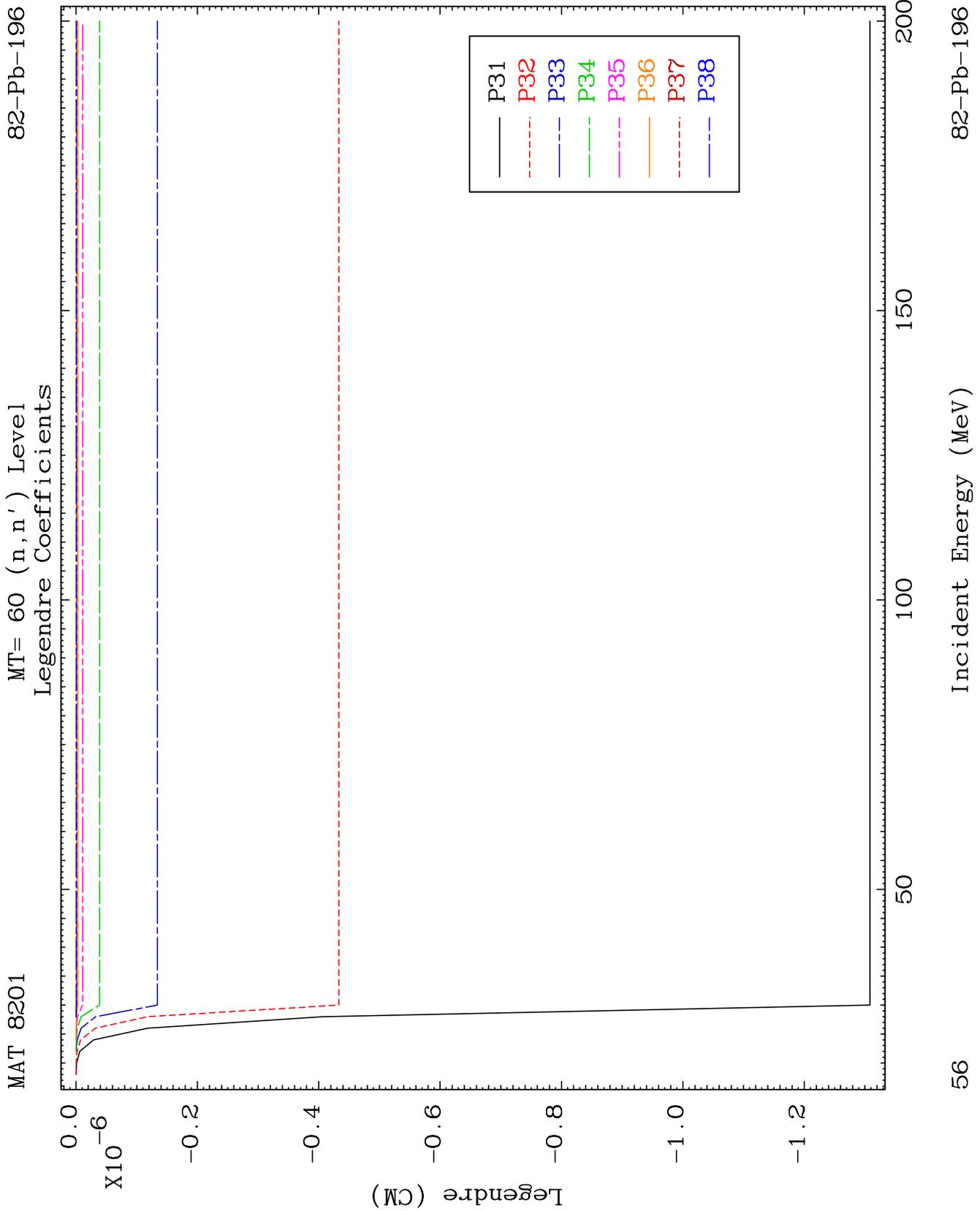


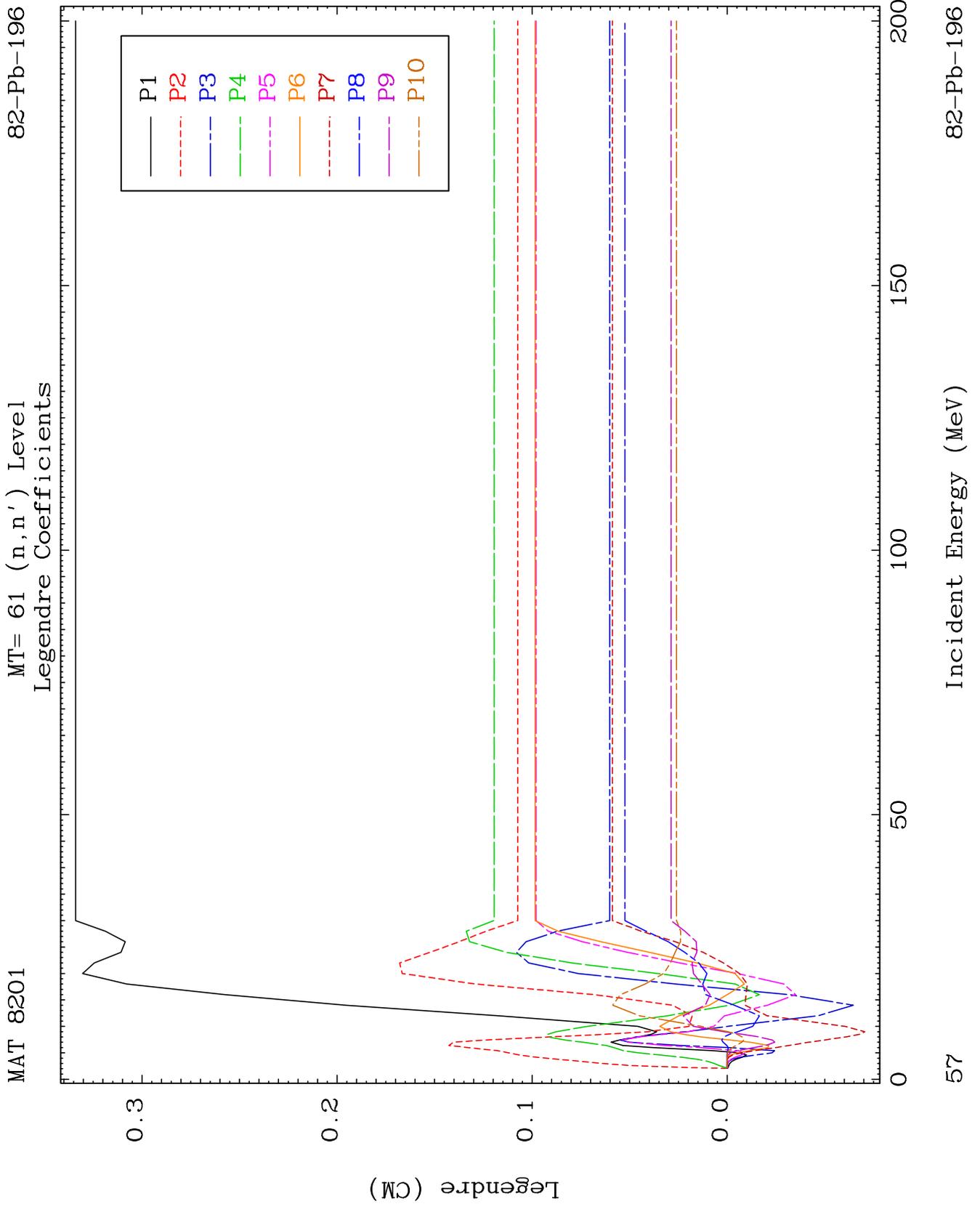
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Incident Energy (MeV)

82-Pb-196



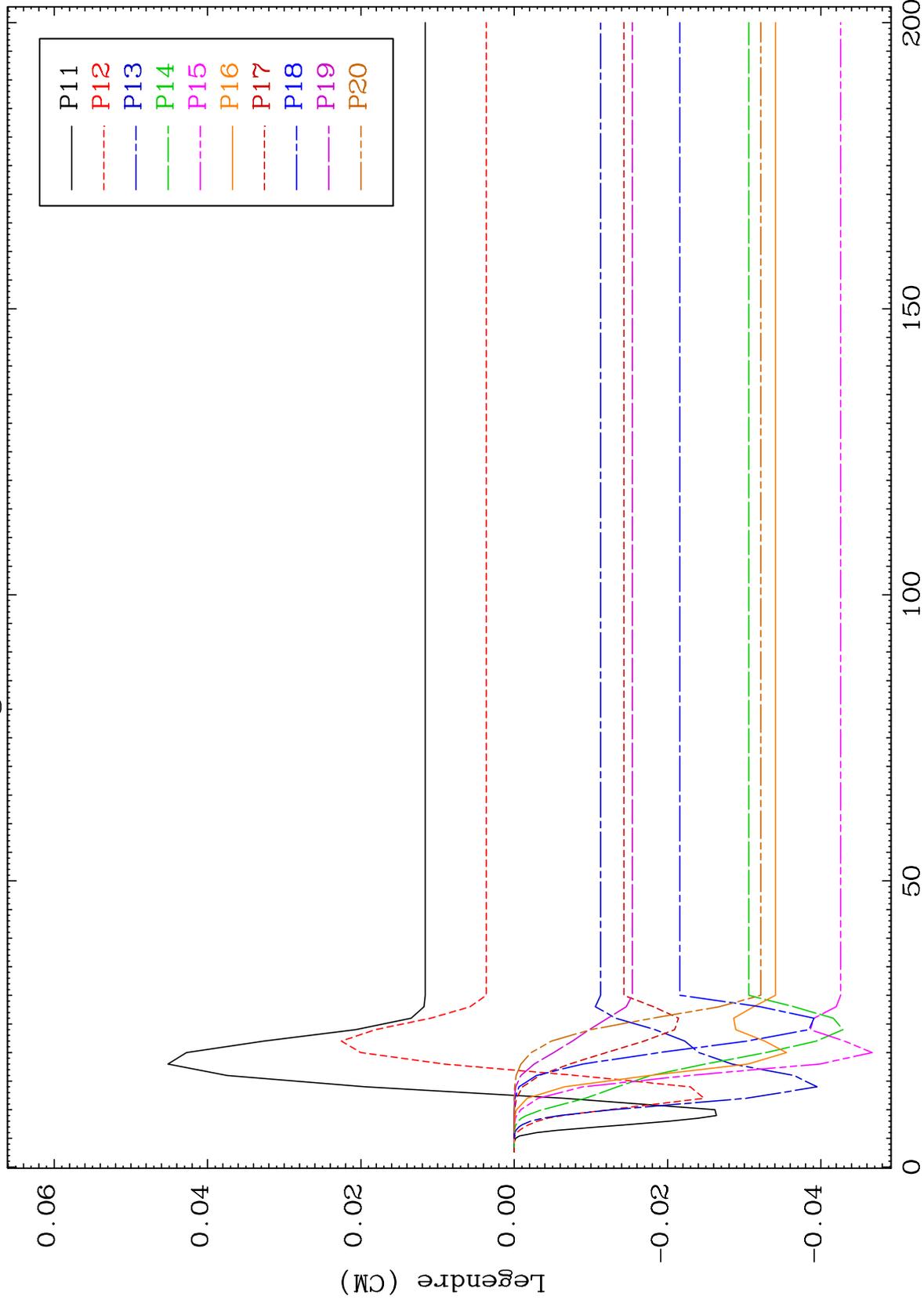




MAT 8201

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

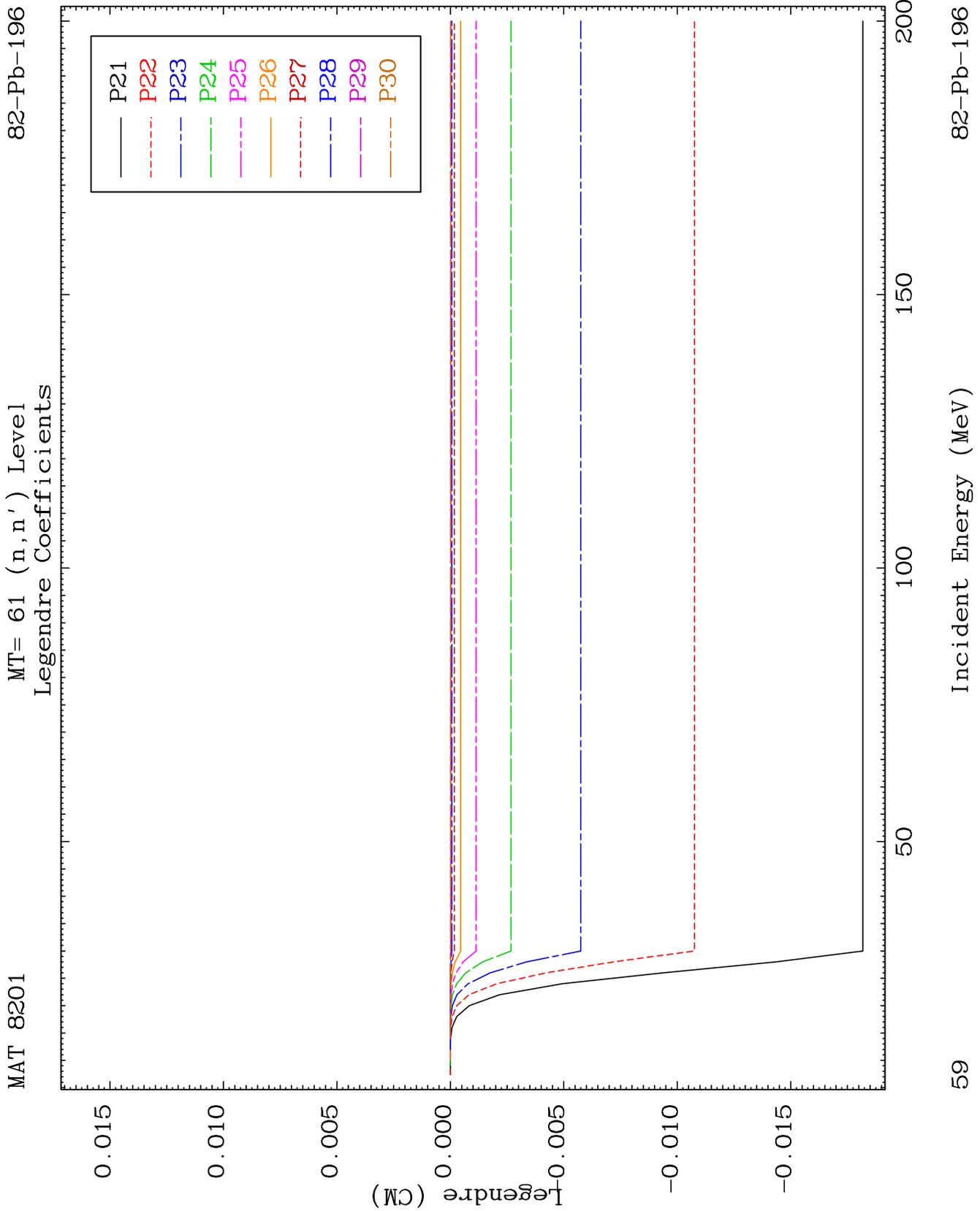
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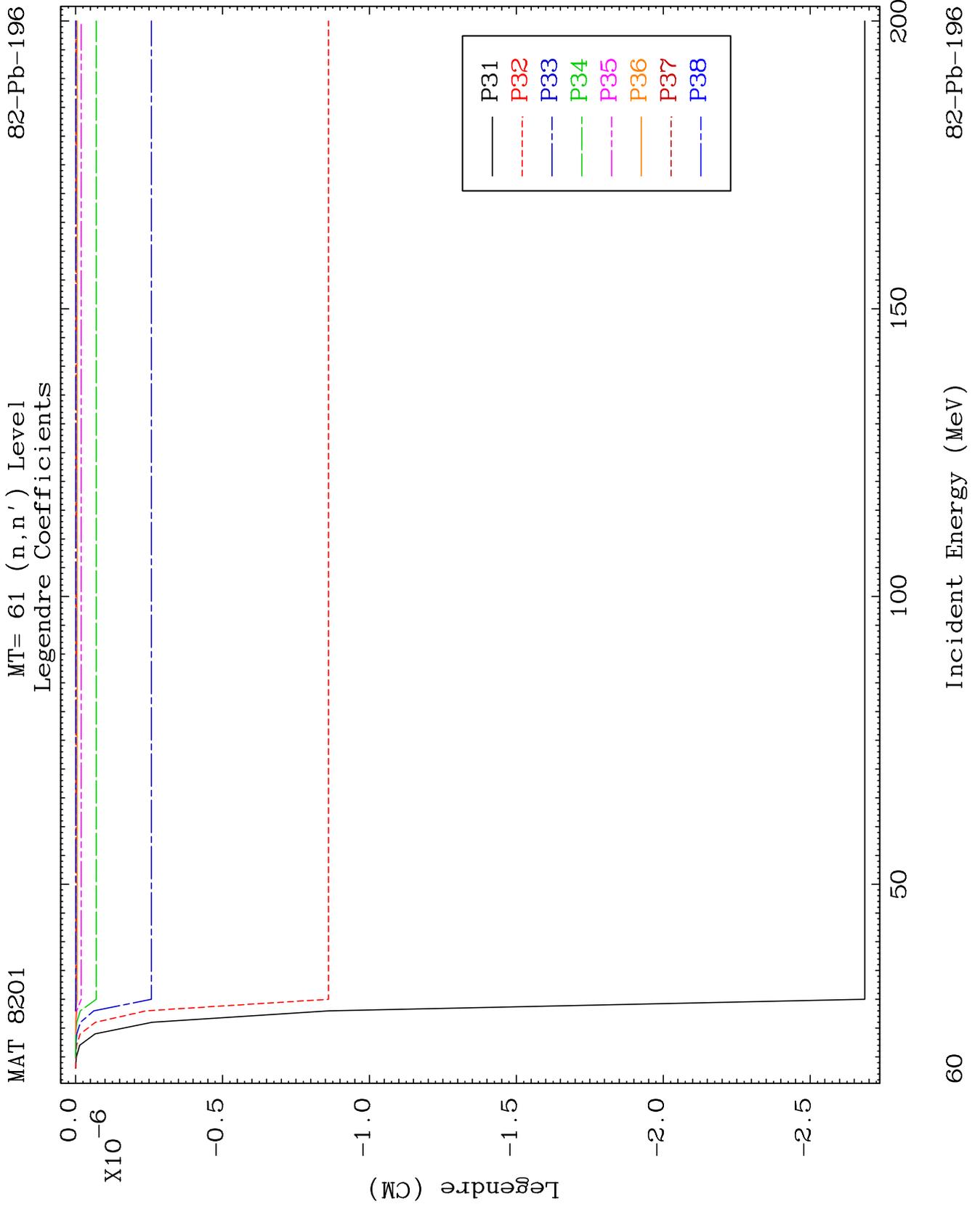


58

Incident Energy (MeV)

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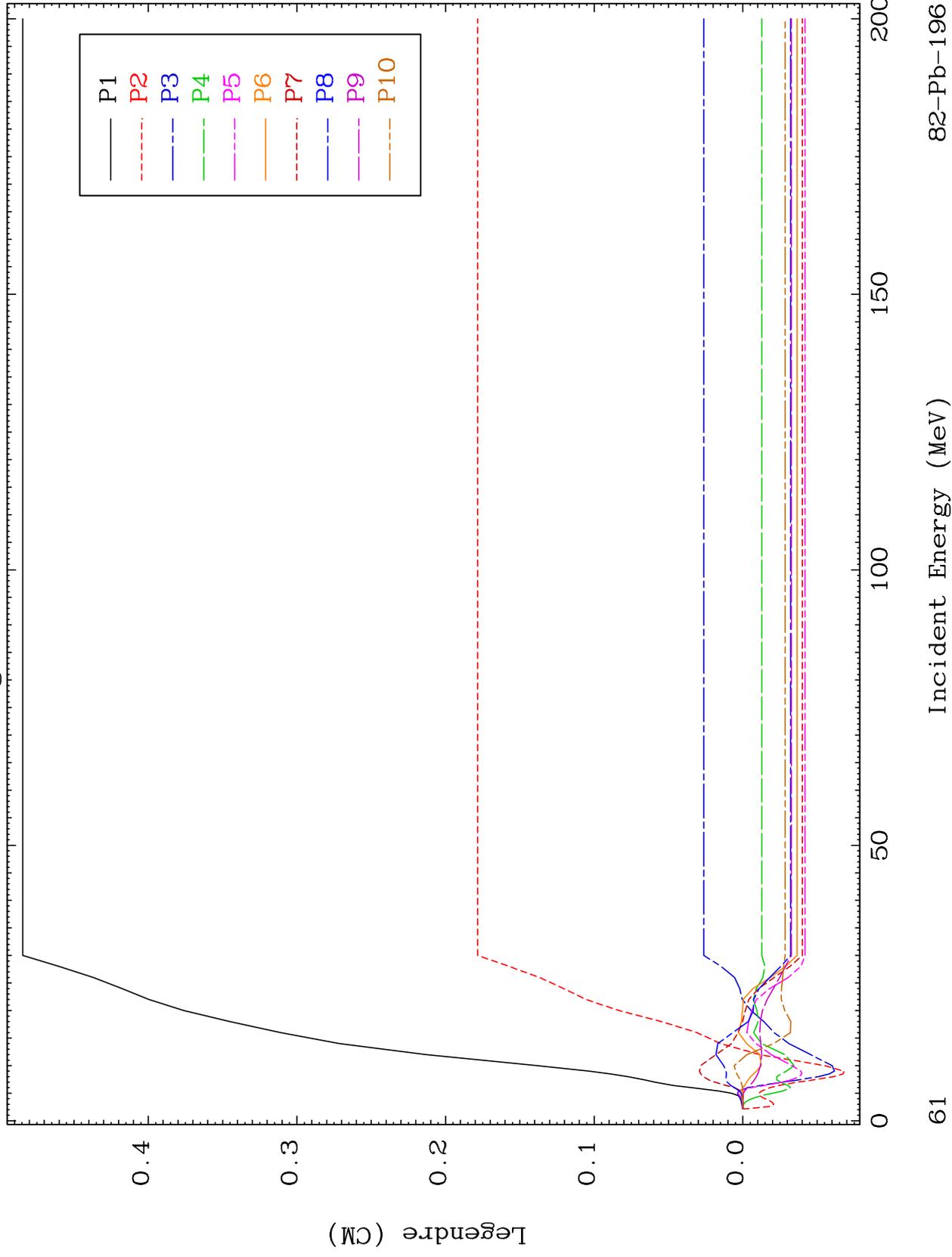




MAT 8201

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

82-Pb-196



82-Pb-196

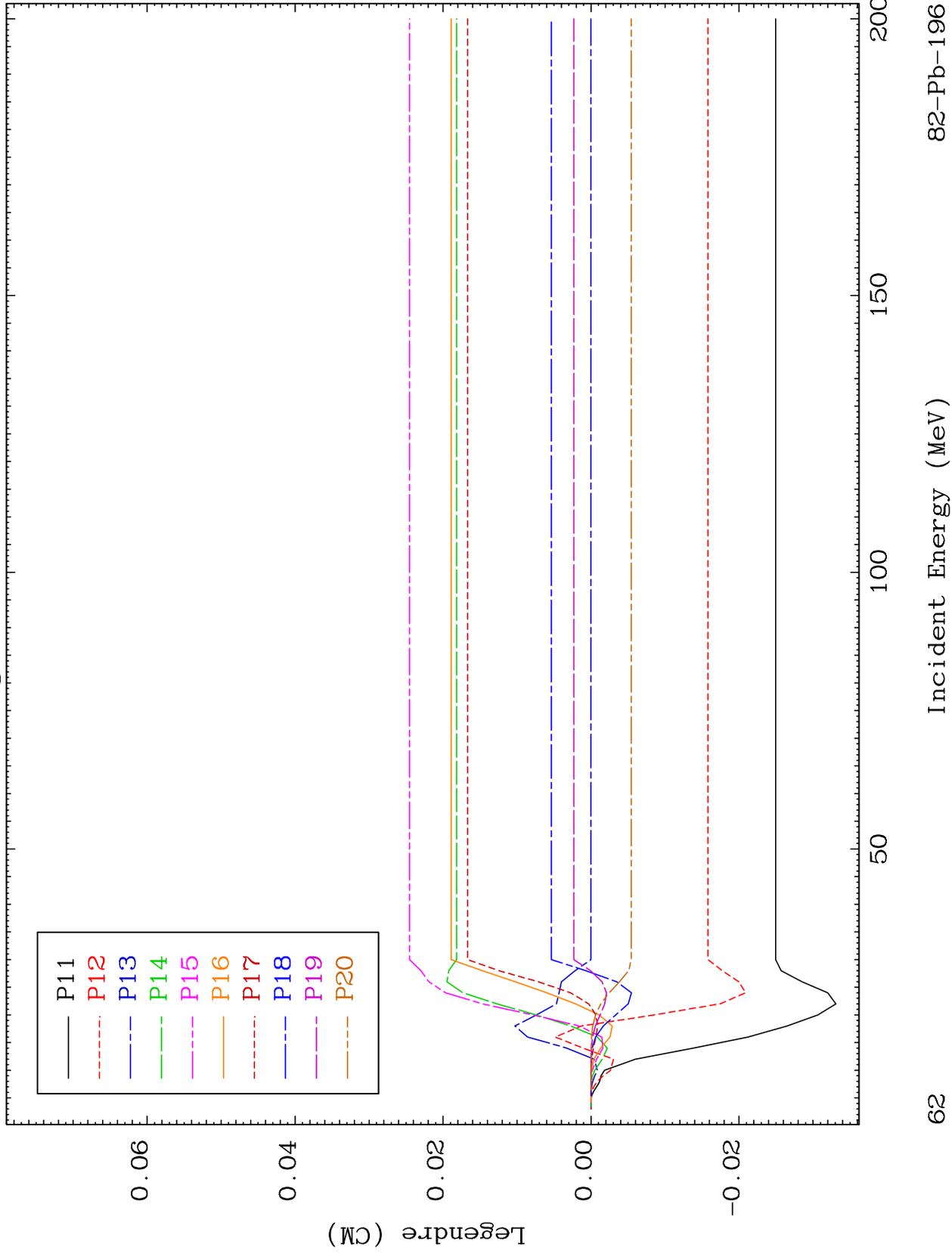
Incident Energy (MeV)

61

MAT 8201

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

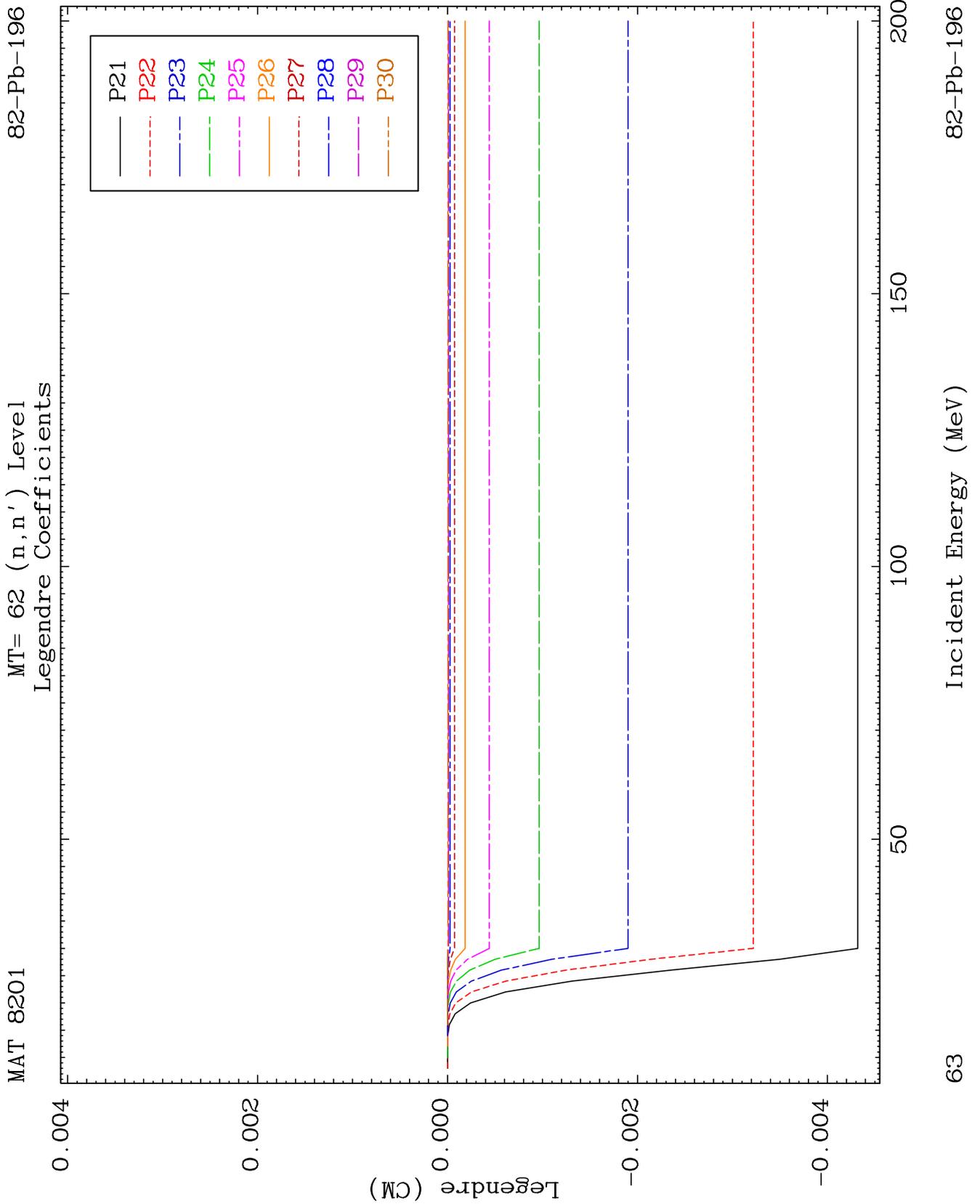
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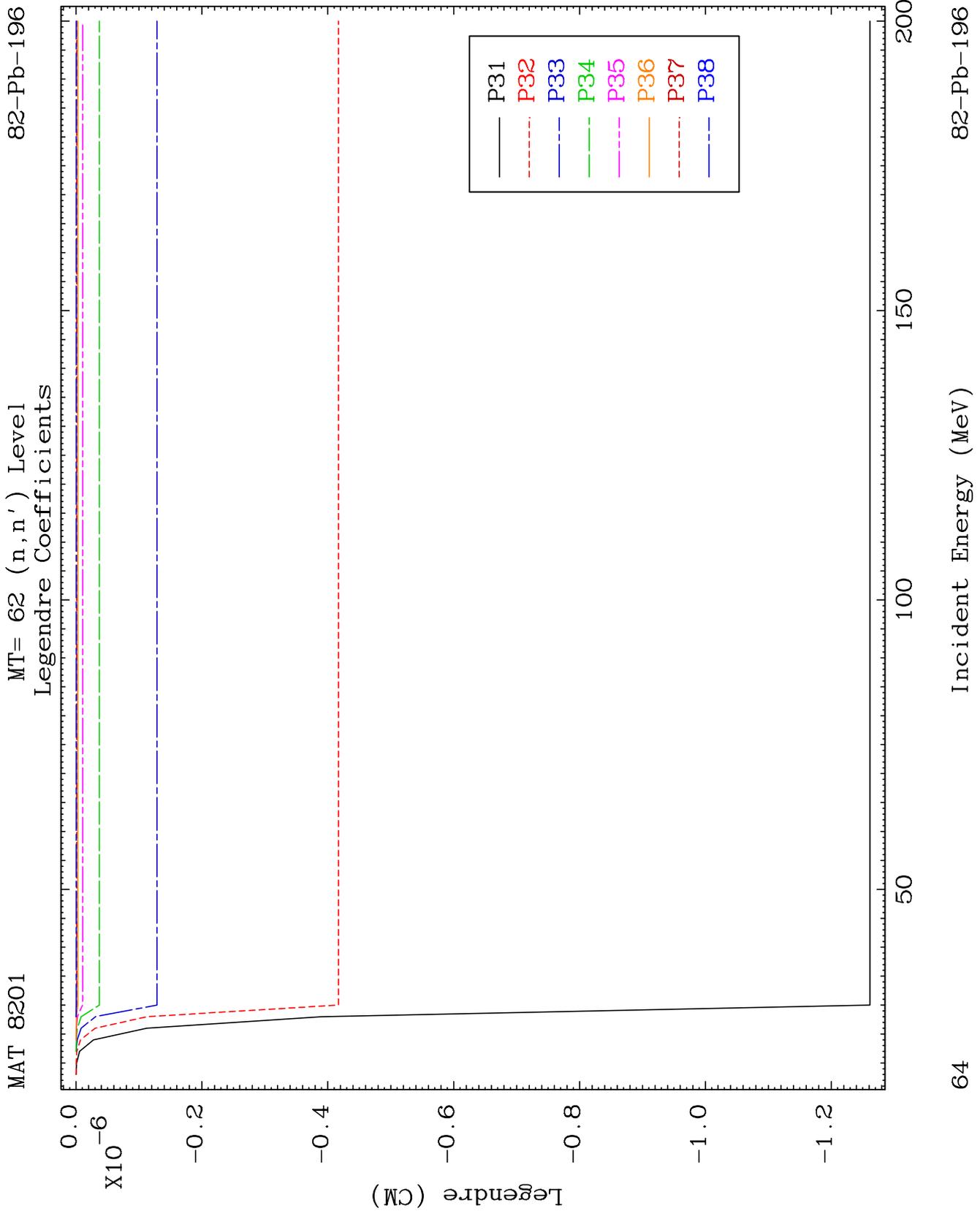


62

Incident Energy (MeV)

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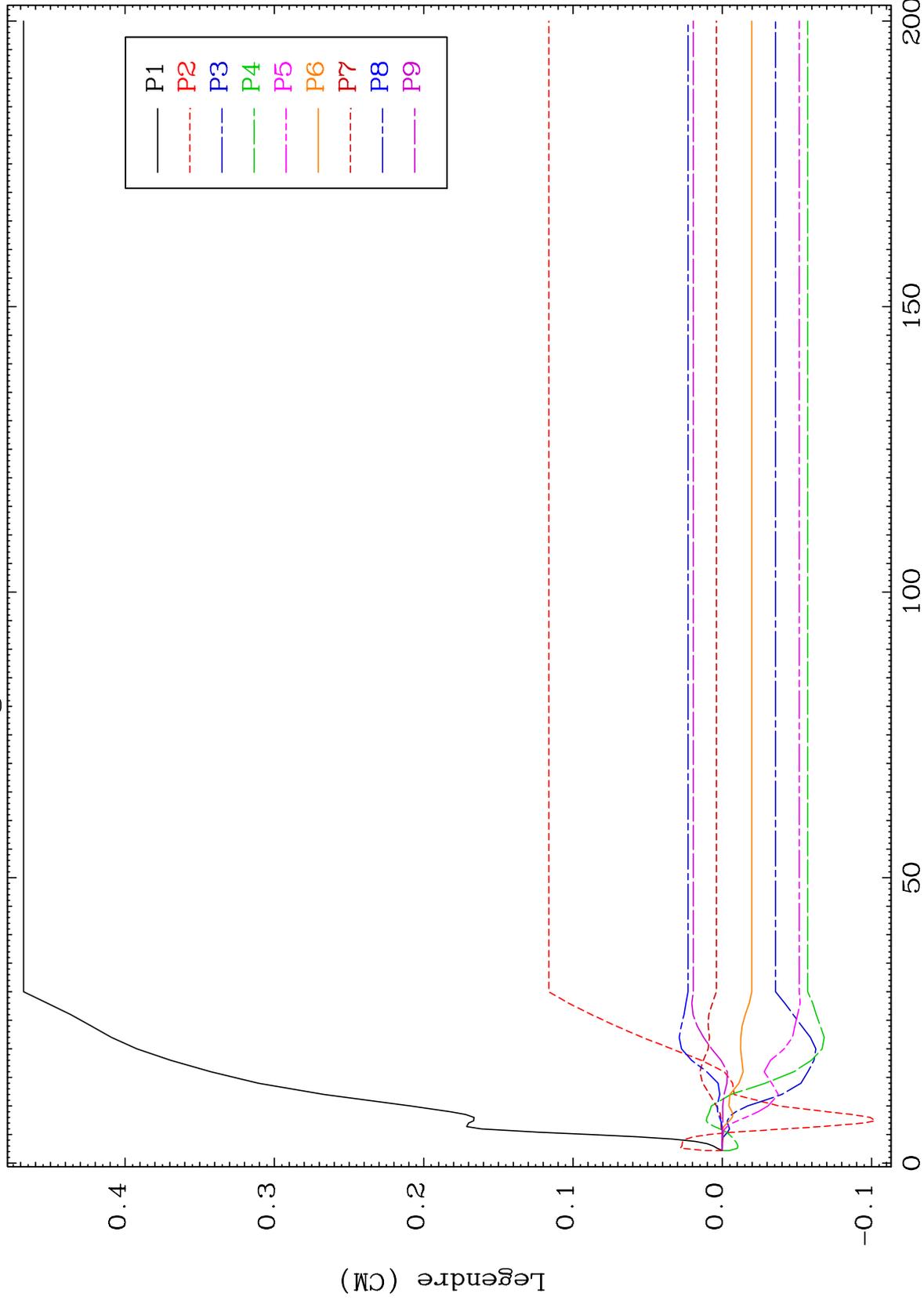




MAT 8201

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

82-Pb-196



65

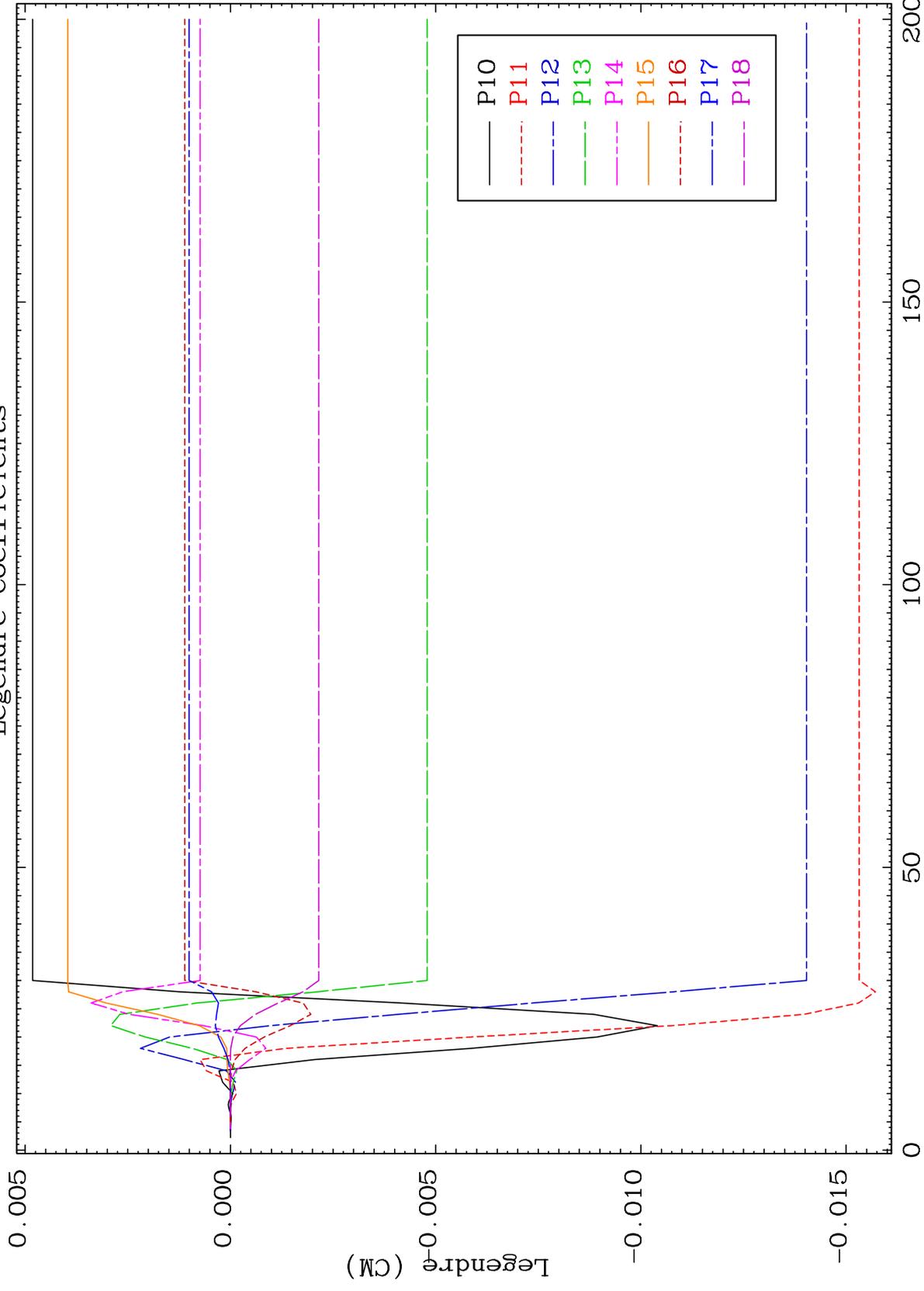
Incident Energy (MeV)

82-Pb-196

MAT 8201

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

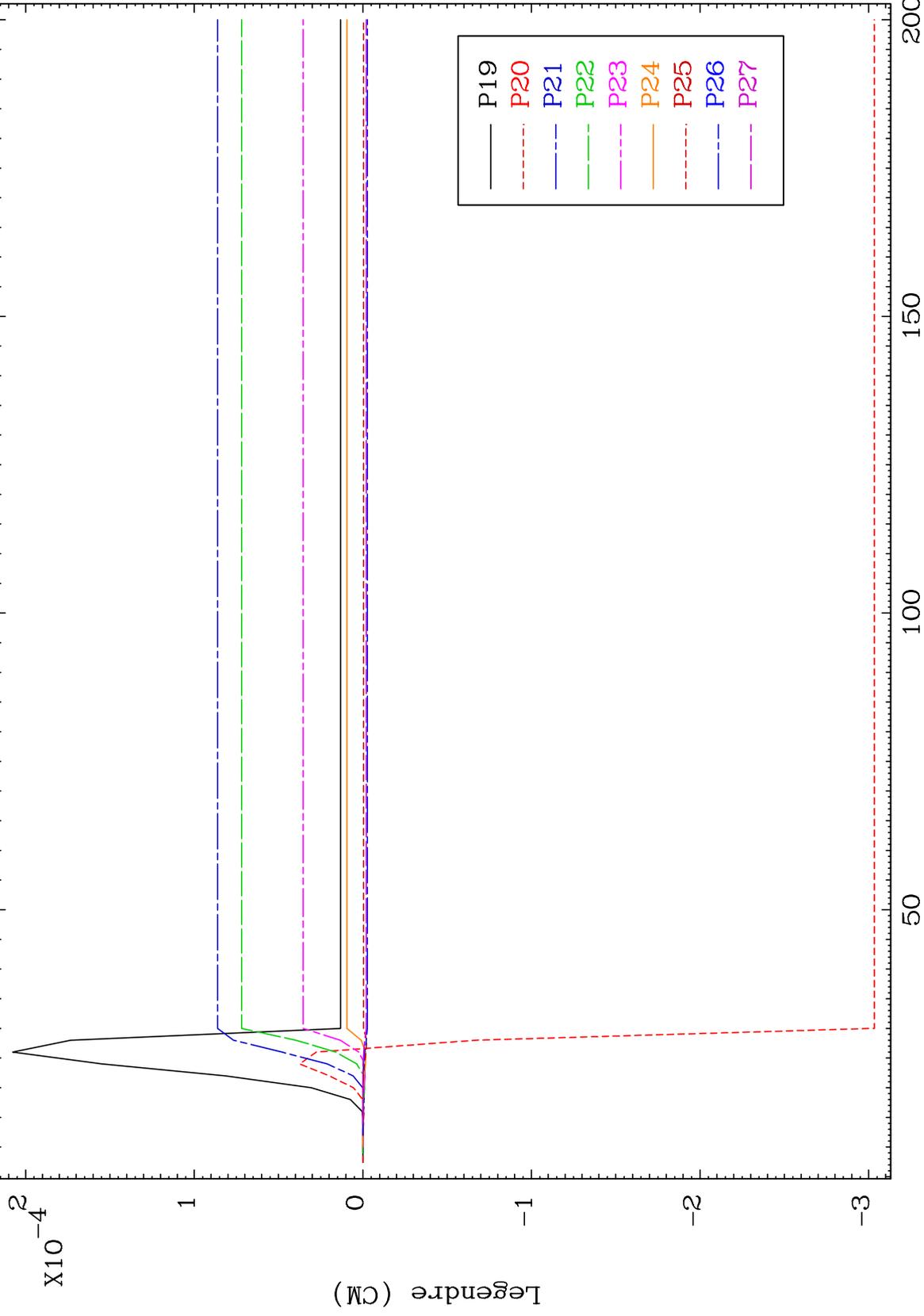
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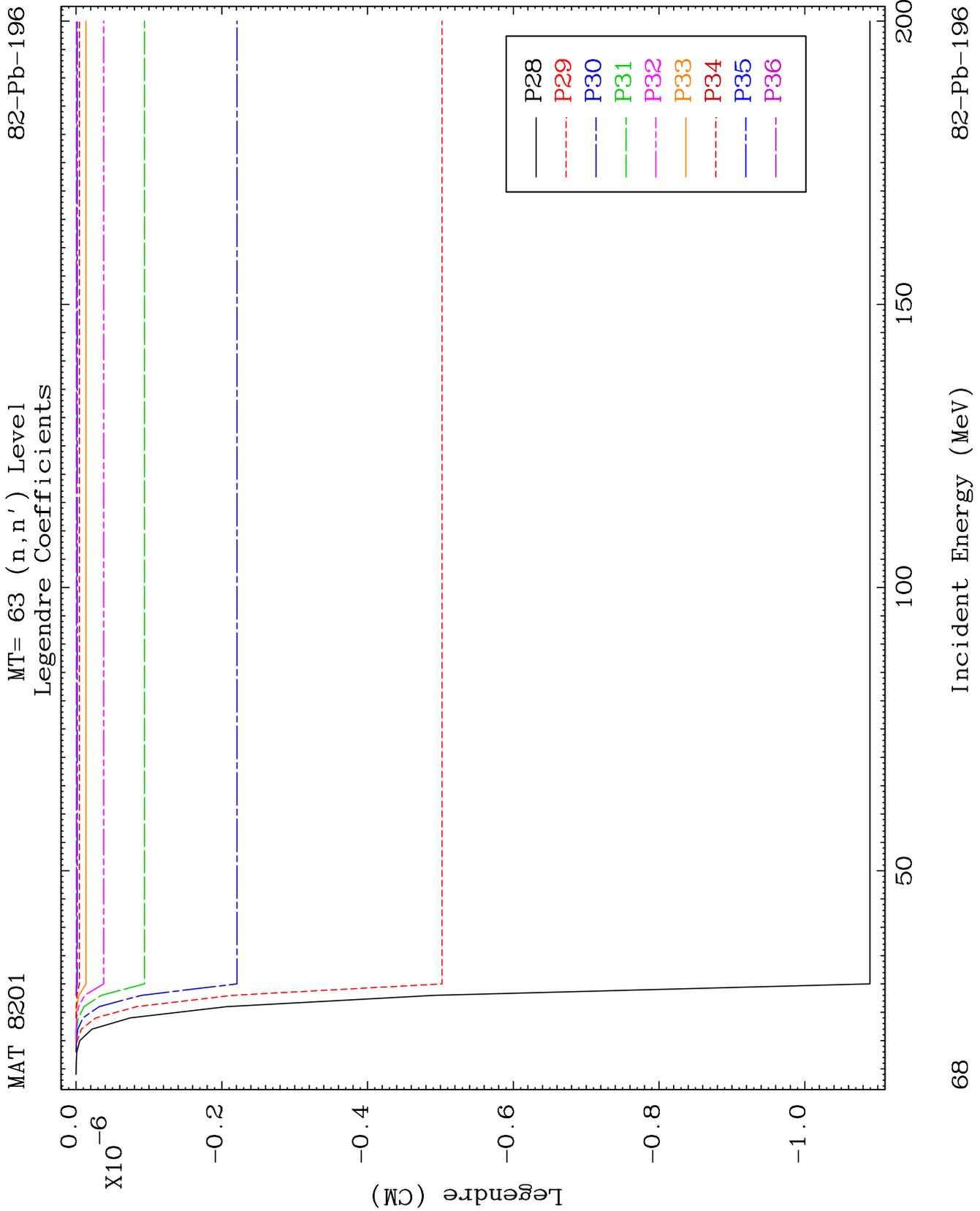


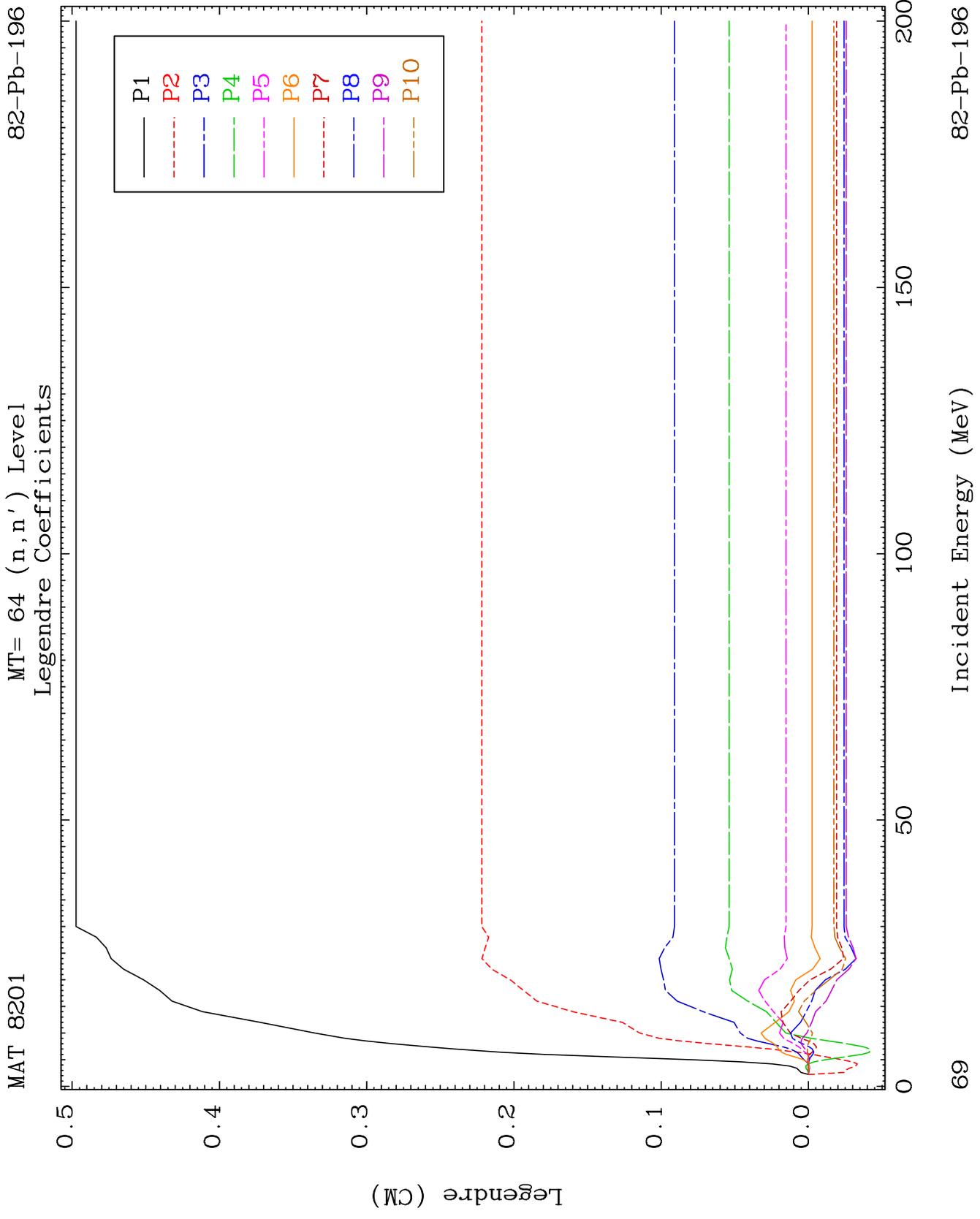
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Incident Energy (MeV)

82-Pb-196



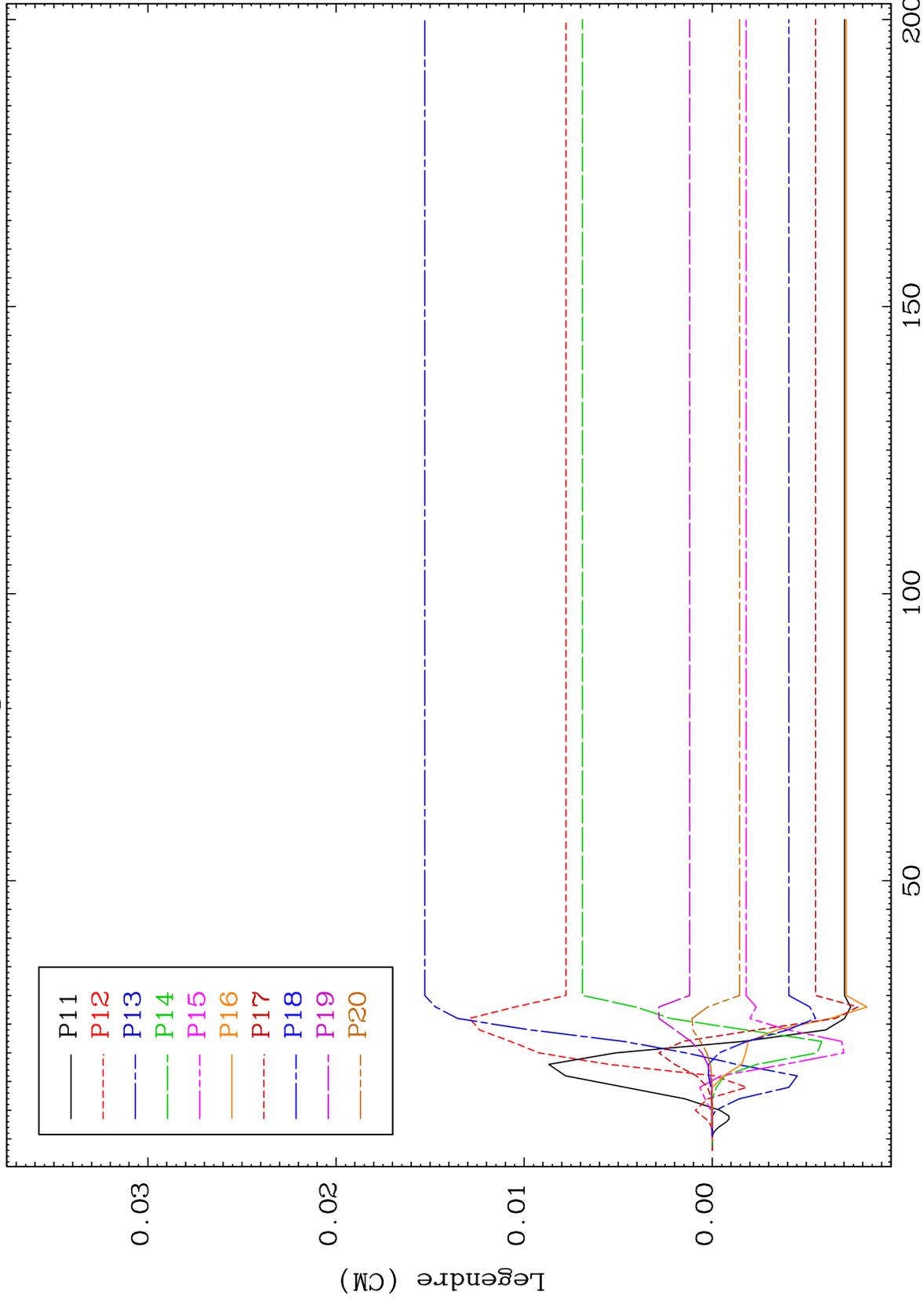




MAT 8201

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

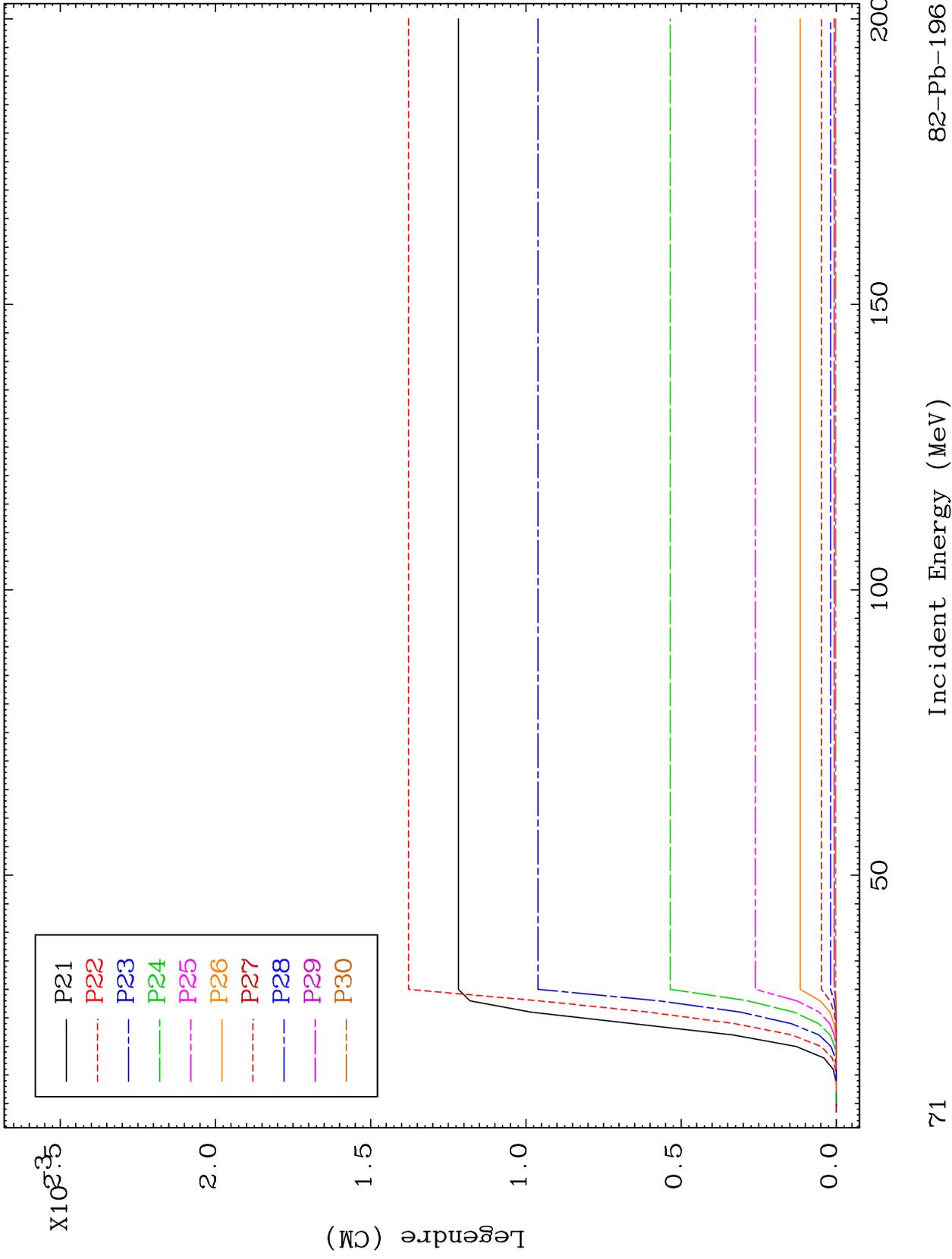
82-Pb-196



70

Incident Energy (MeV)

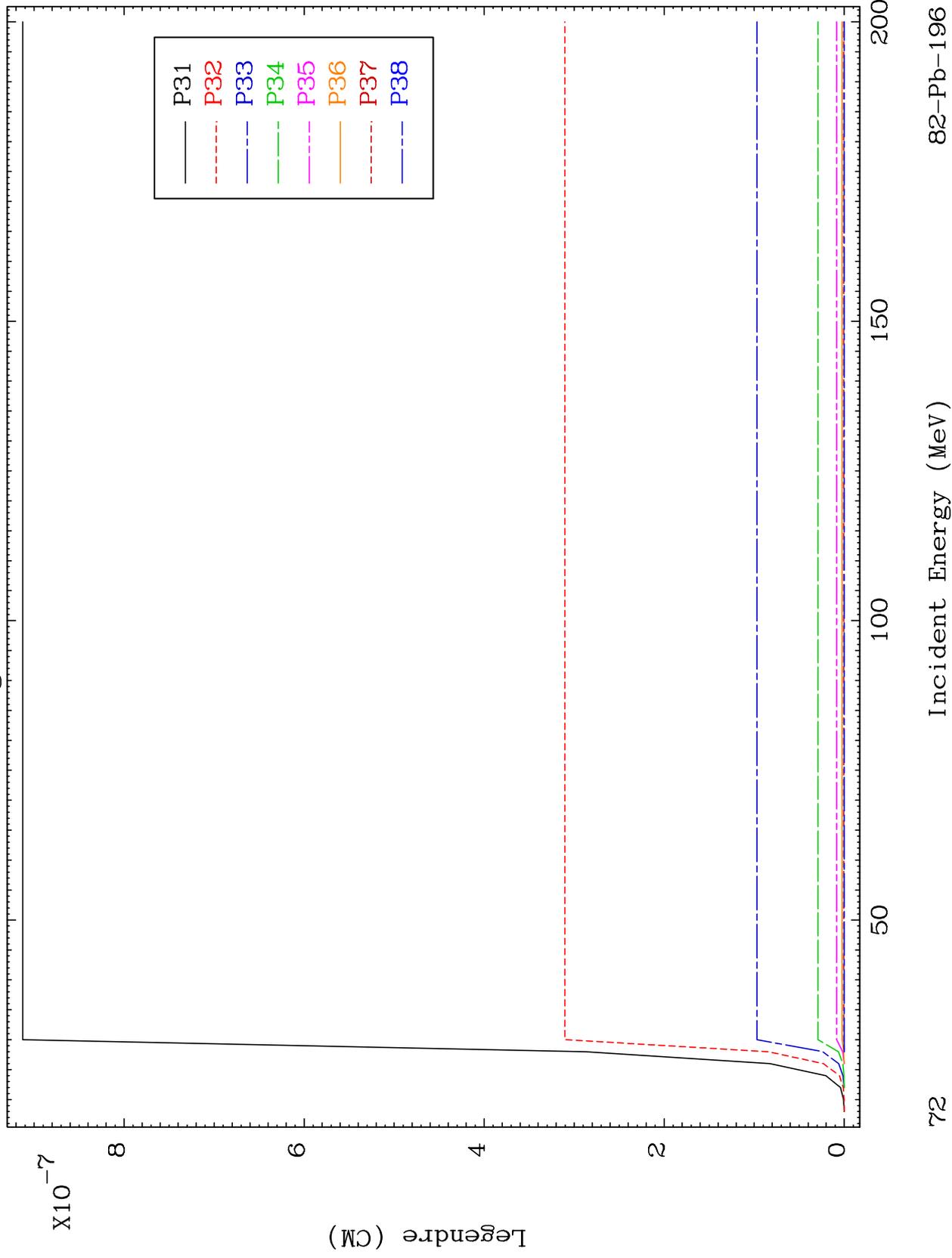
82-Pb-196



MAT 8201

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

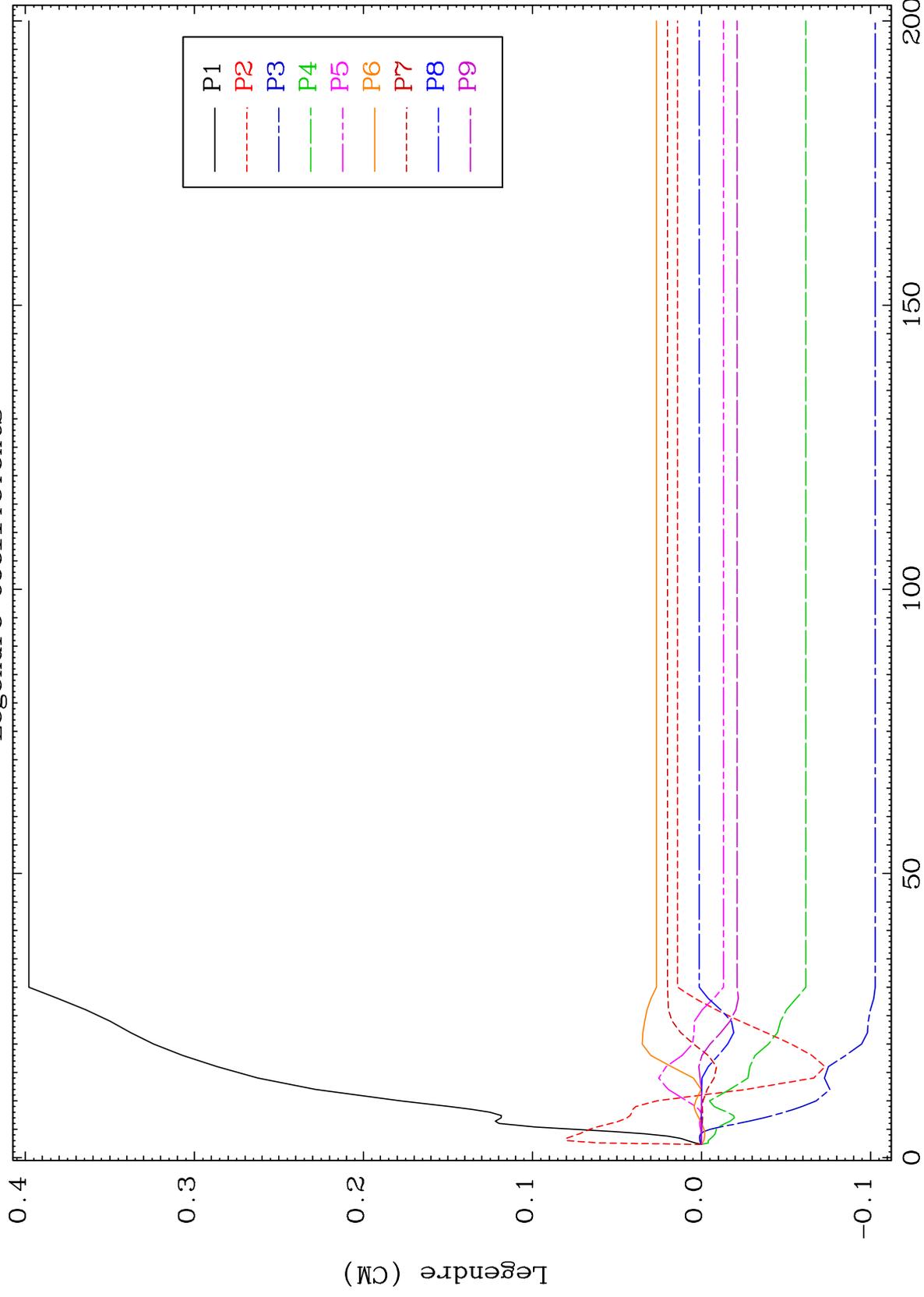
82-Pb-196



MAT 8201

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

82-Pb-196



73

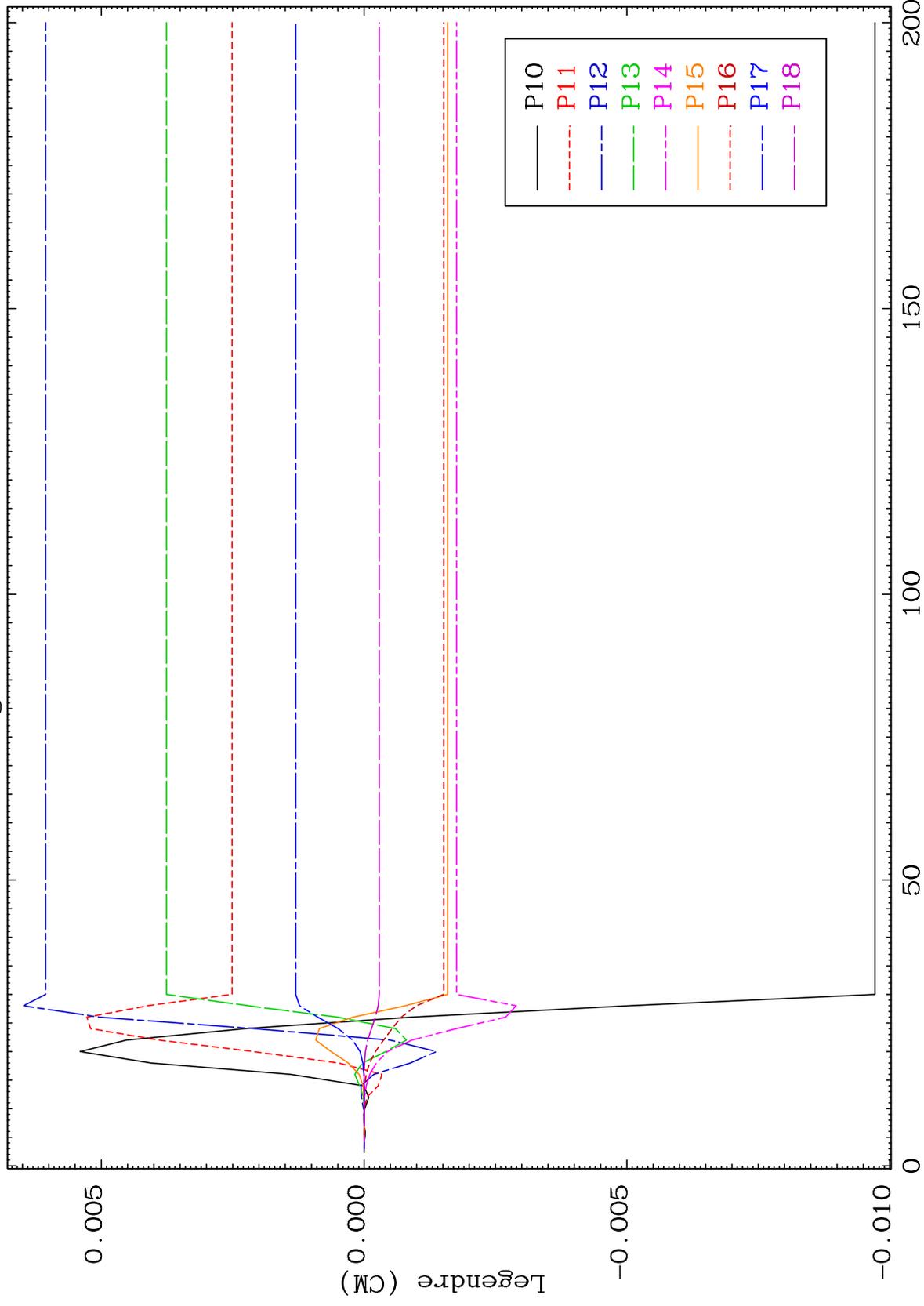
Incident Energy (MeV)

82-Pb-196

MAT 8201

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

82-Pb-196



74

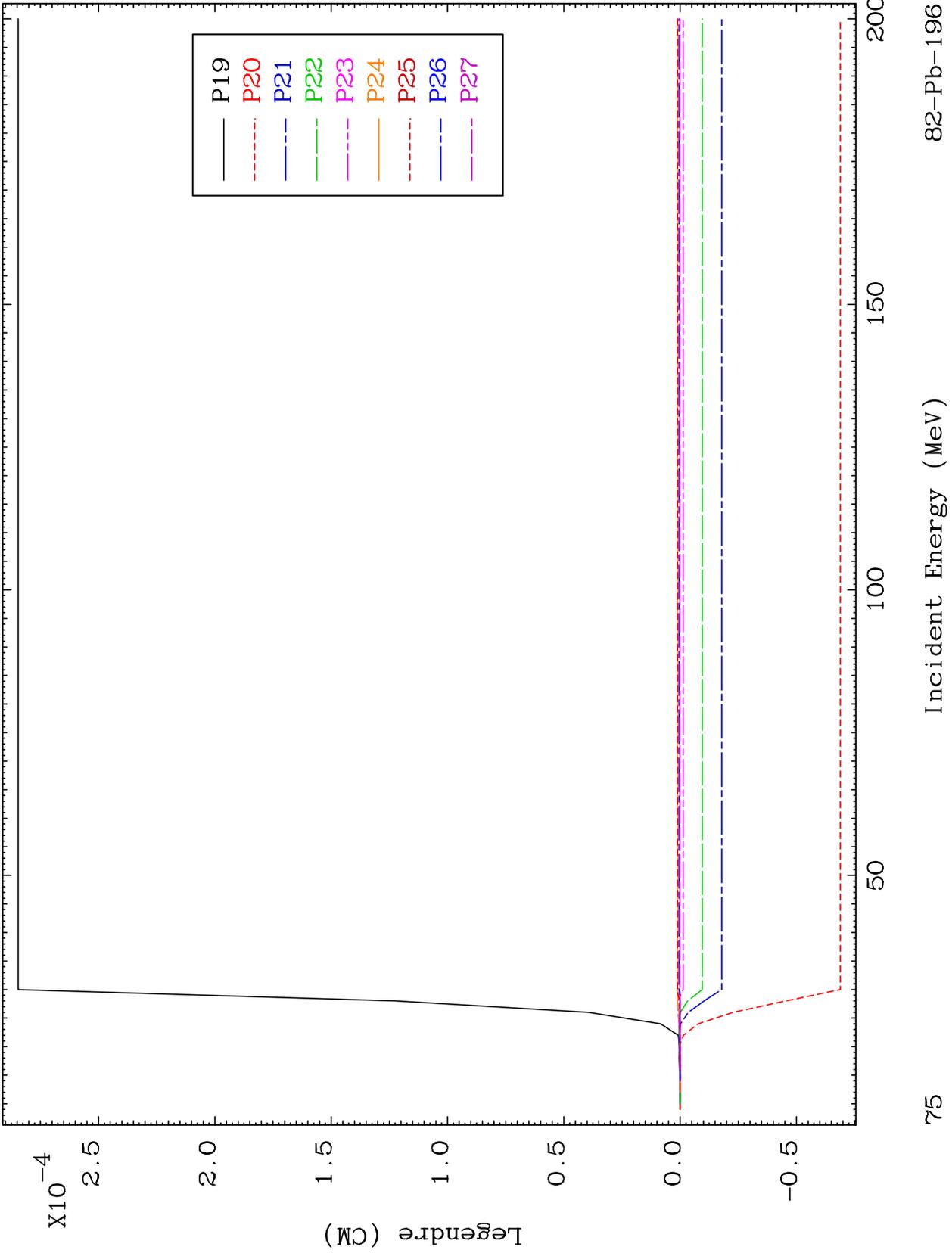
Incident Energy (MeV)

82-Pb-196

MAT 8201

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

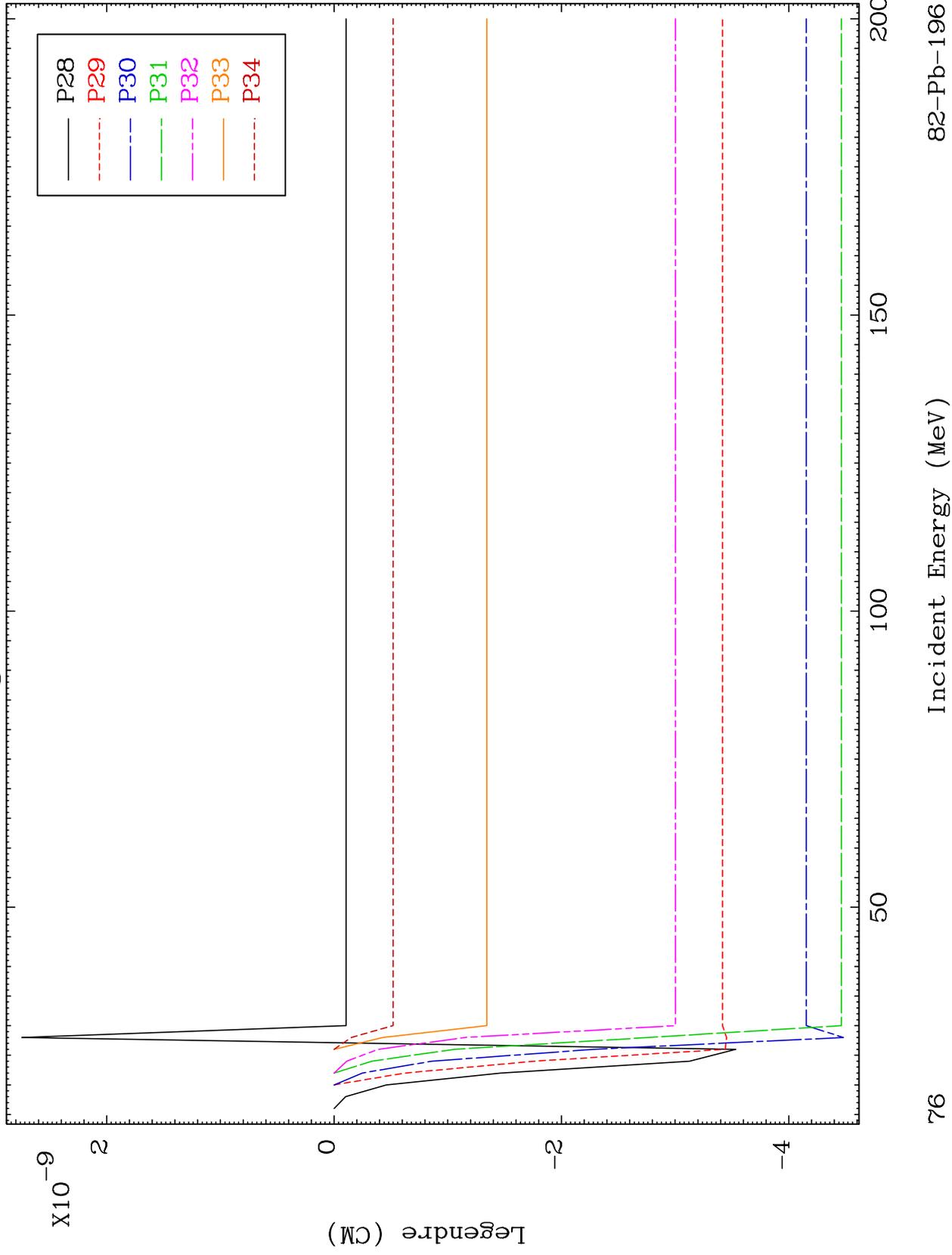
82-Pb-196



MAT 8201

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

82-Pb-196



76

82-Pb-196

Incident Energy (MeV)

50

100

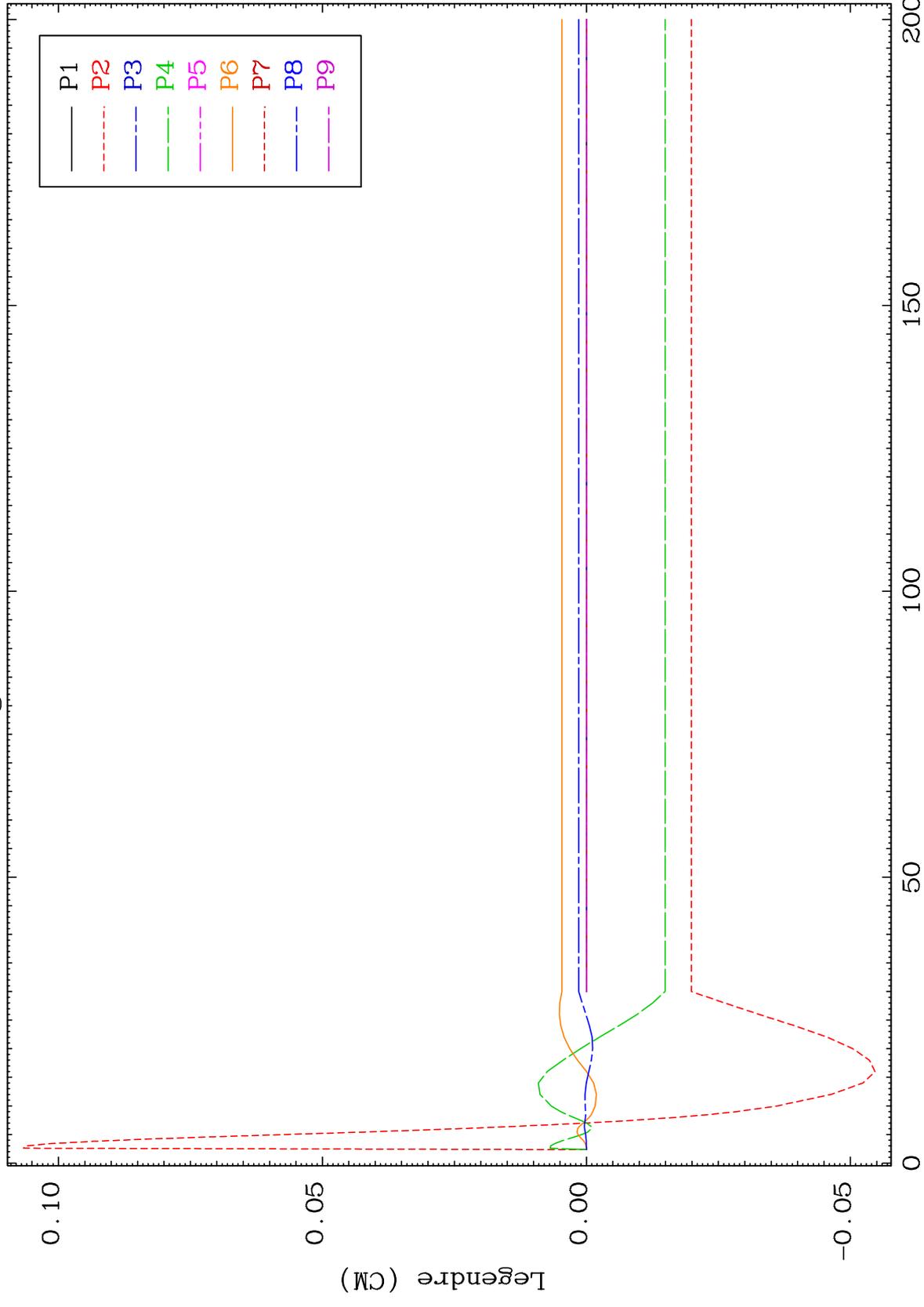
150

200

MAT 8201

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

82-Pb-196



77

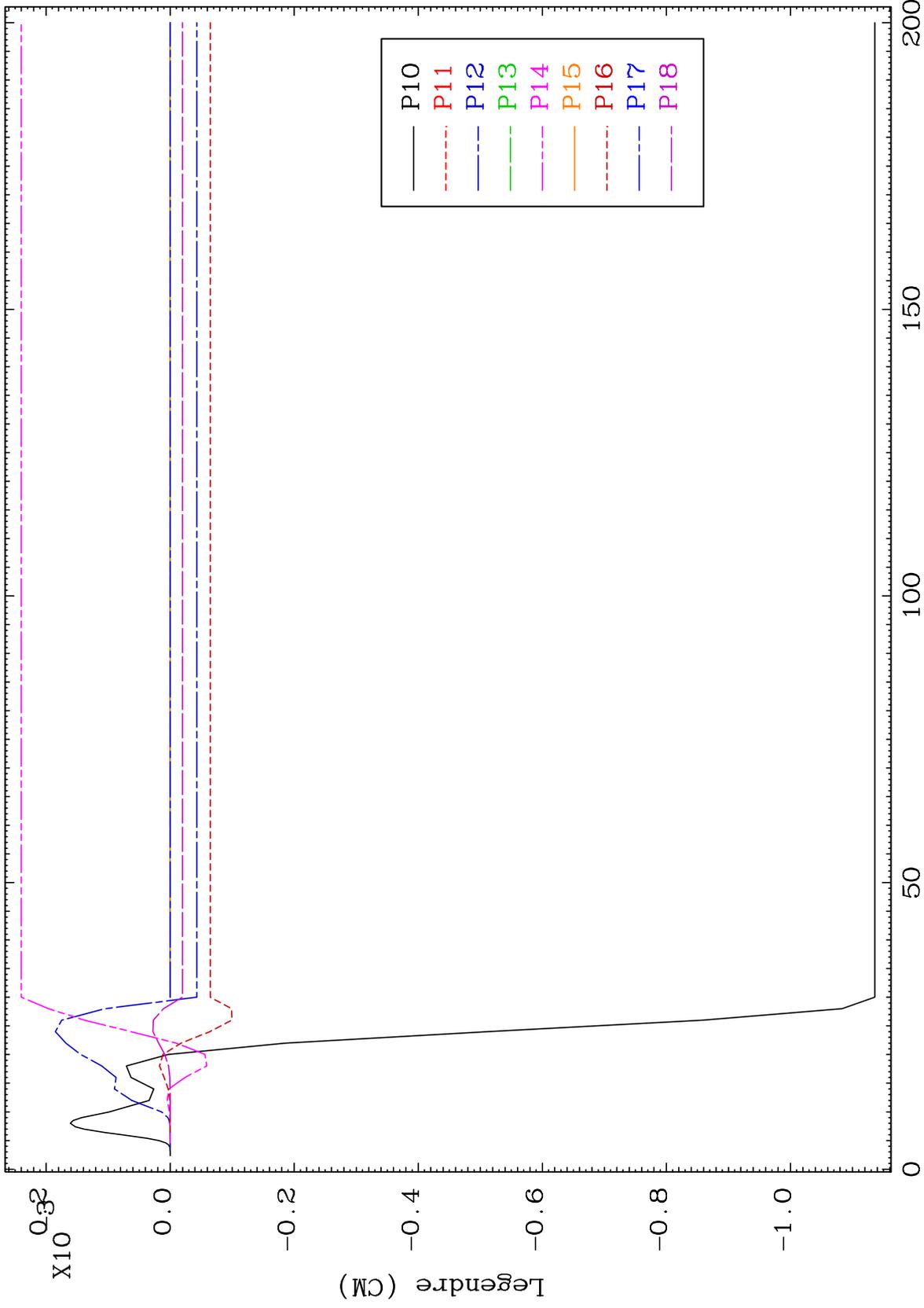
Incident Energy (MeV)

82-Pb-196

MAT 8201

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

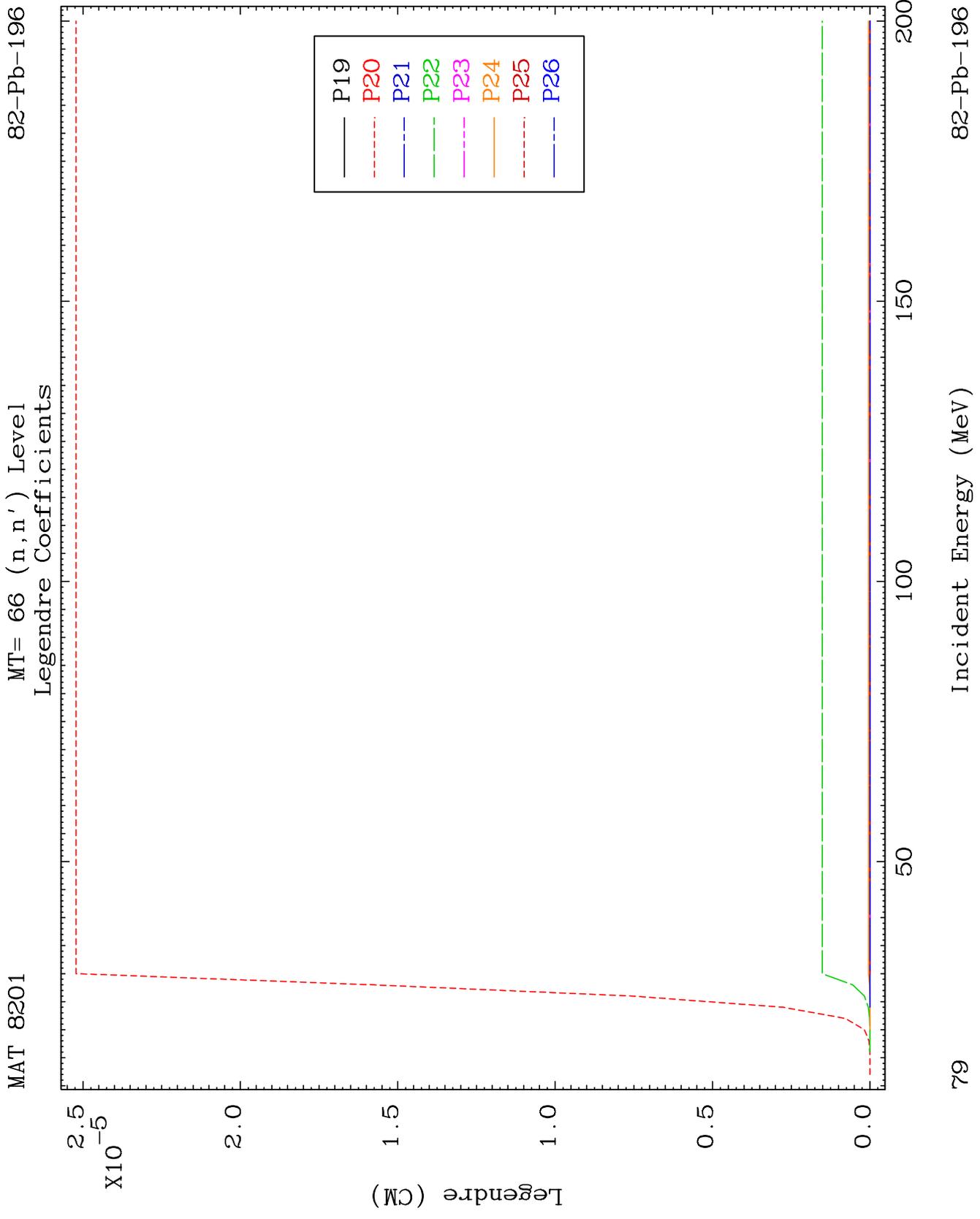
82-Pb-196

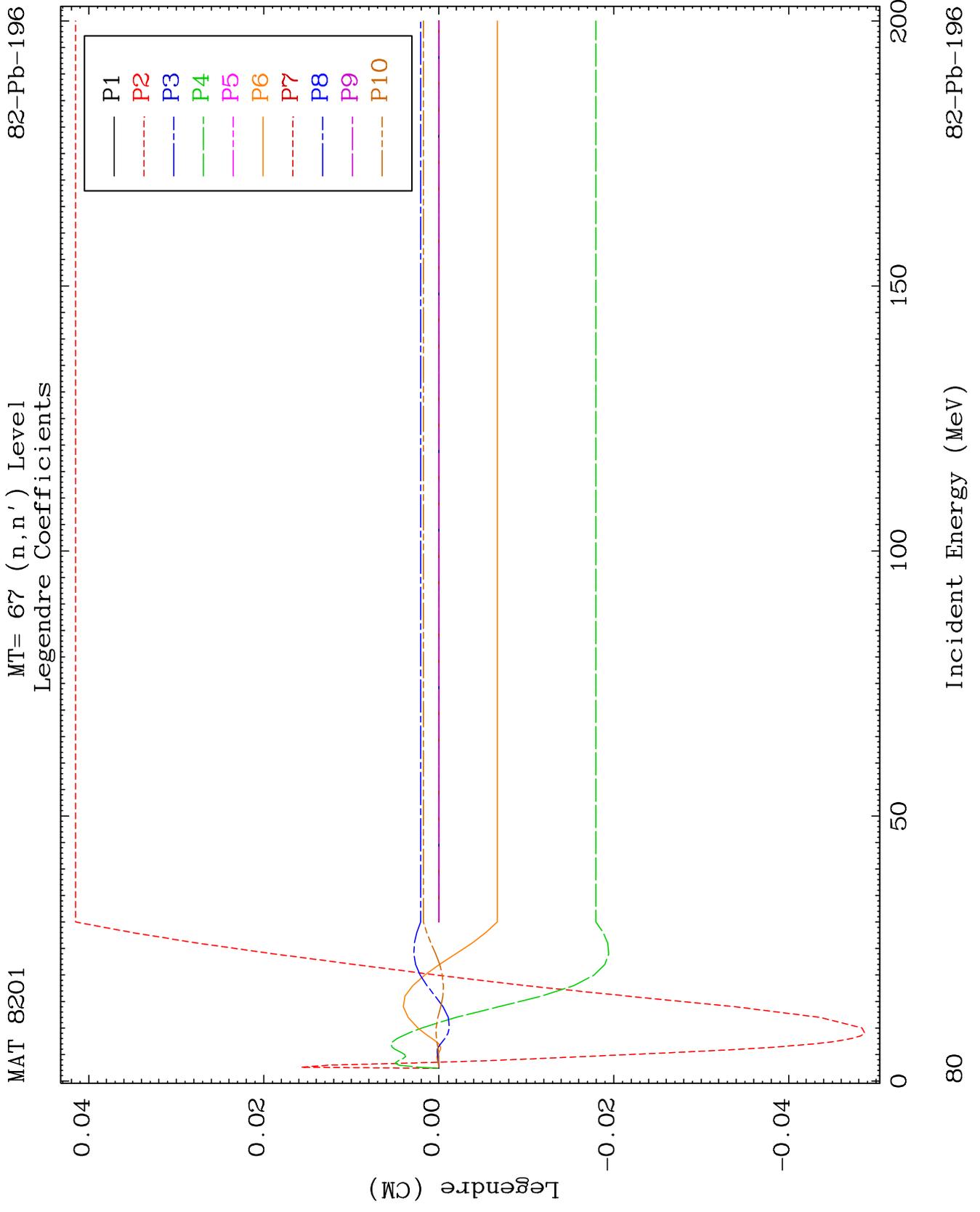


78

Incident Energy (MeV)

82-Pb-196

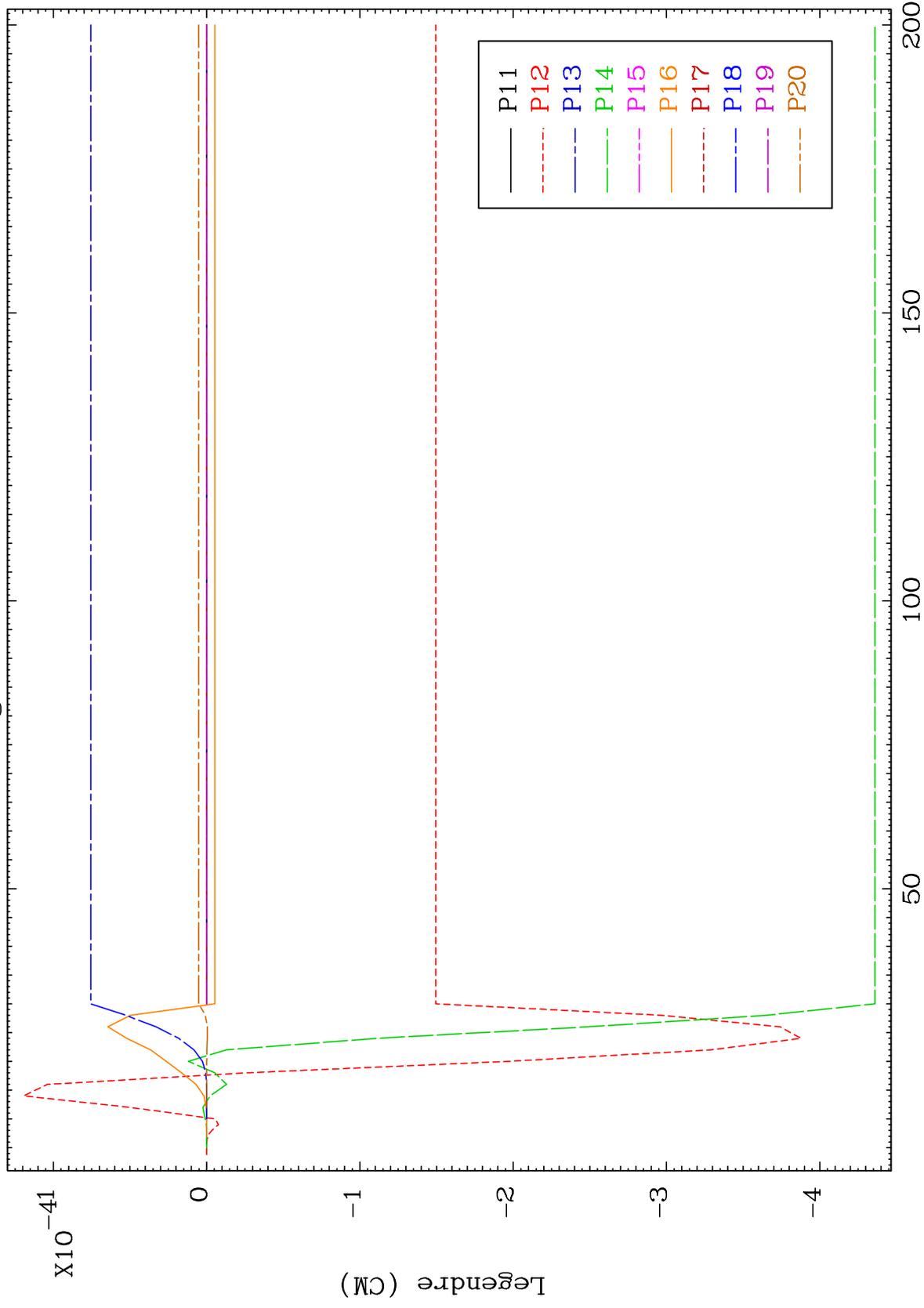




MAT 8201

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

82-Pb-196



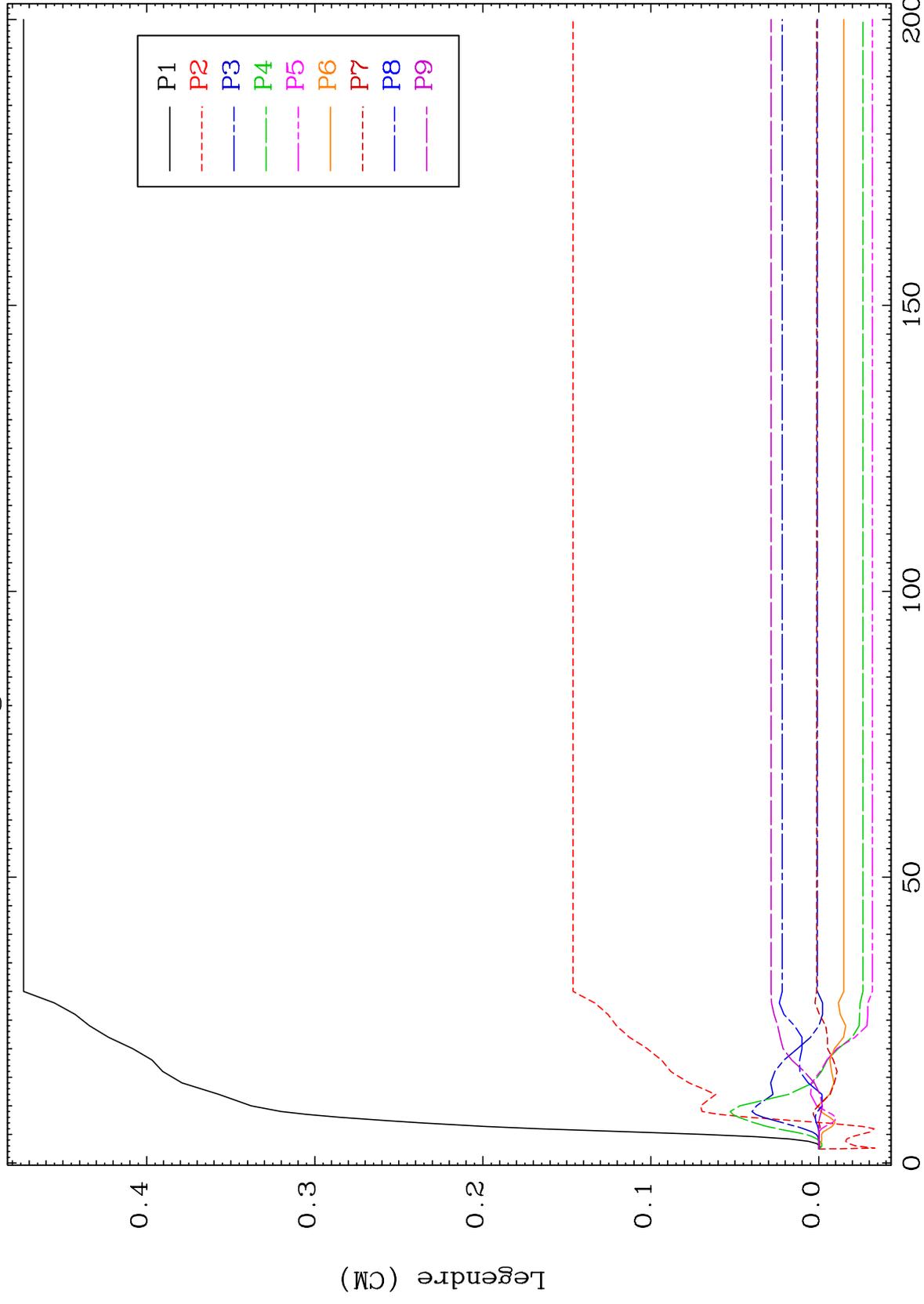
81

82-Pb-196

MAT 8201

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

82-Pb-196



83

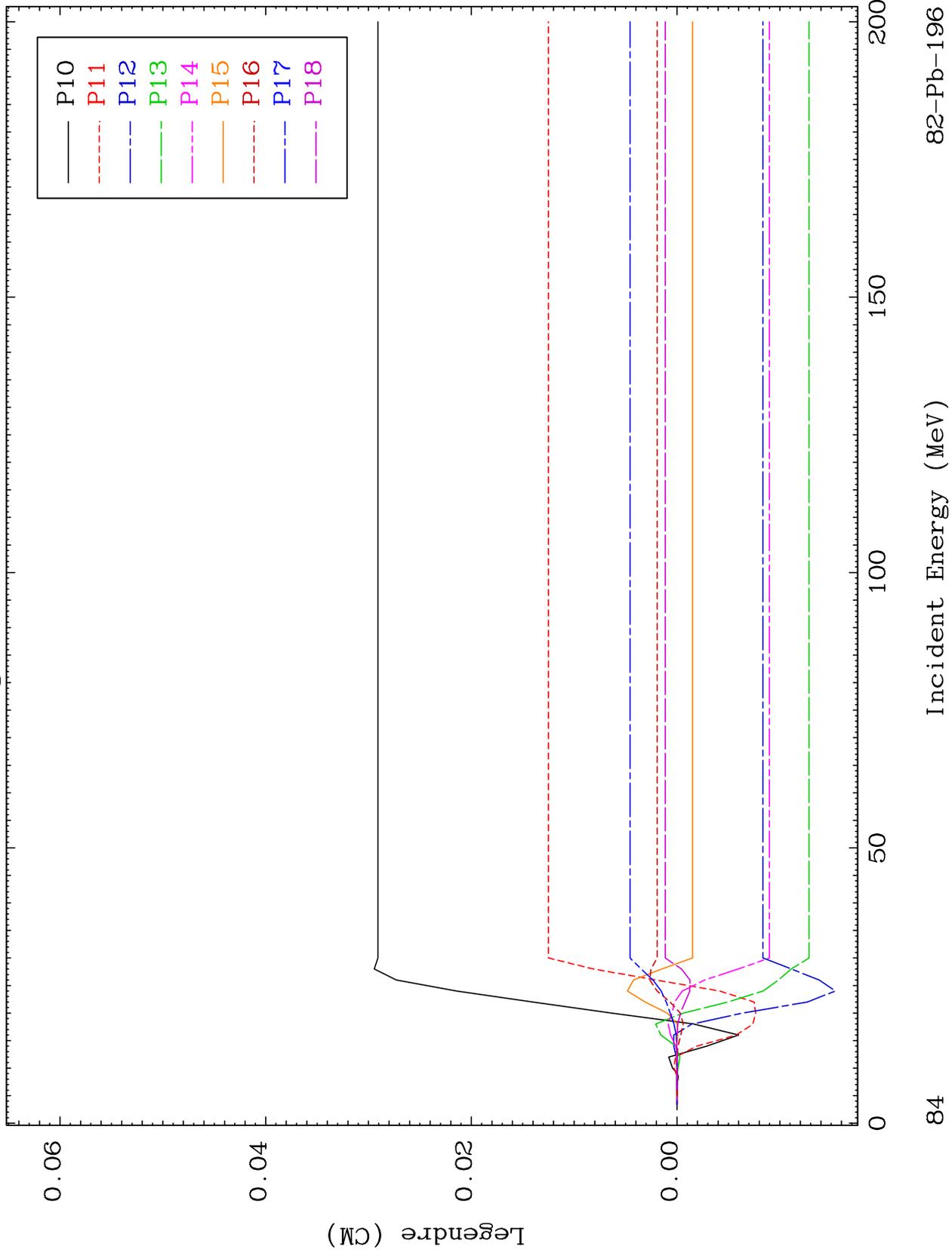
Incident Energy (MeV)

82-Pb-196

MAT 8201

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

82-Pb-196

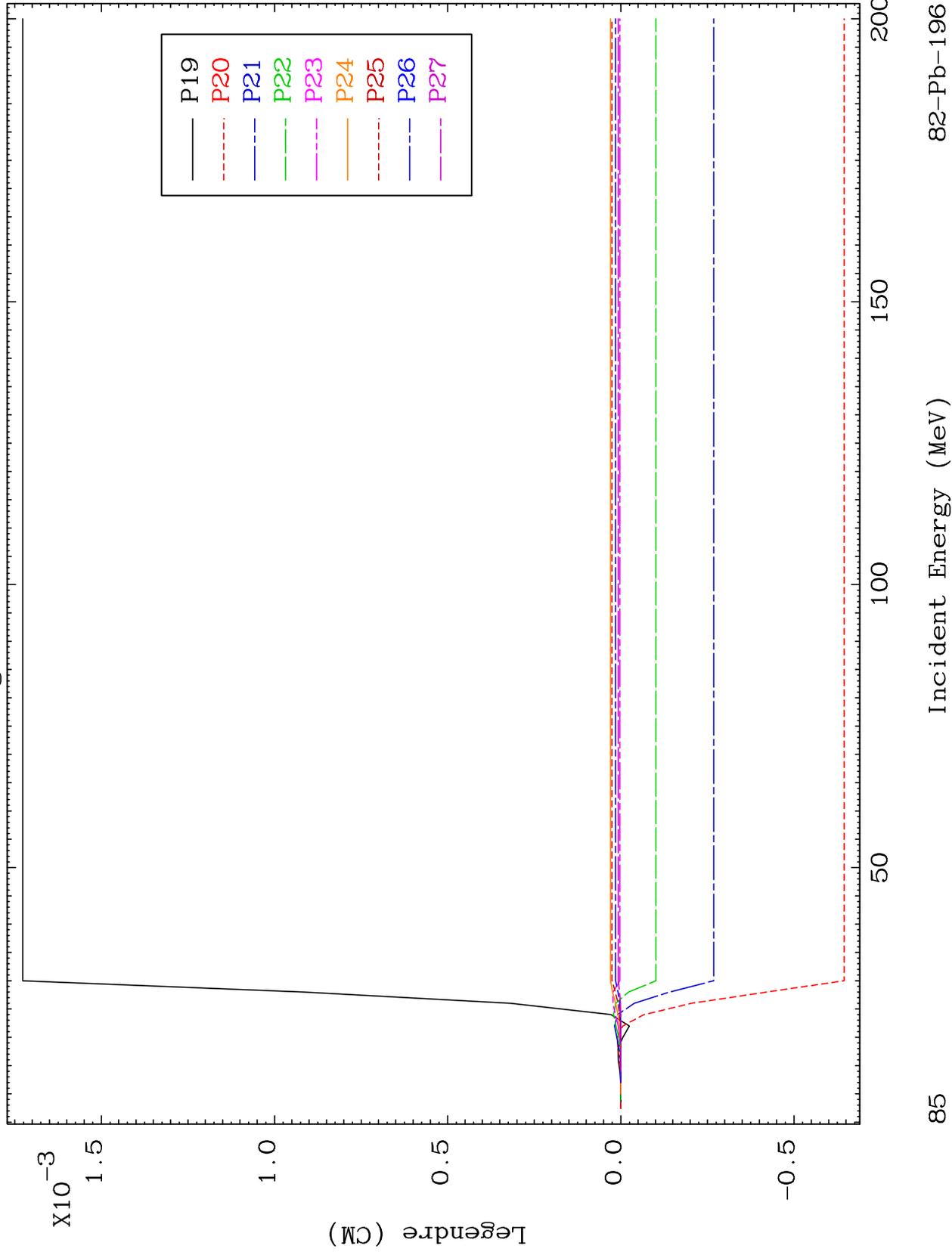


84

MAT 8201

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

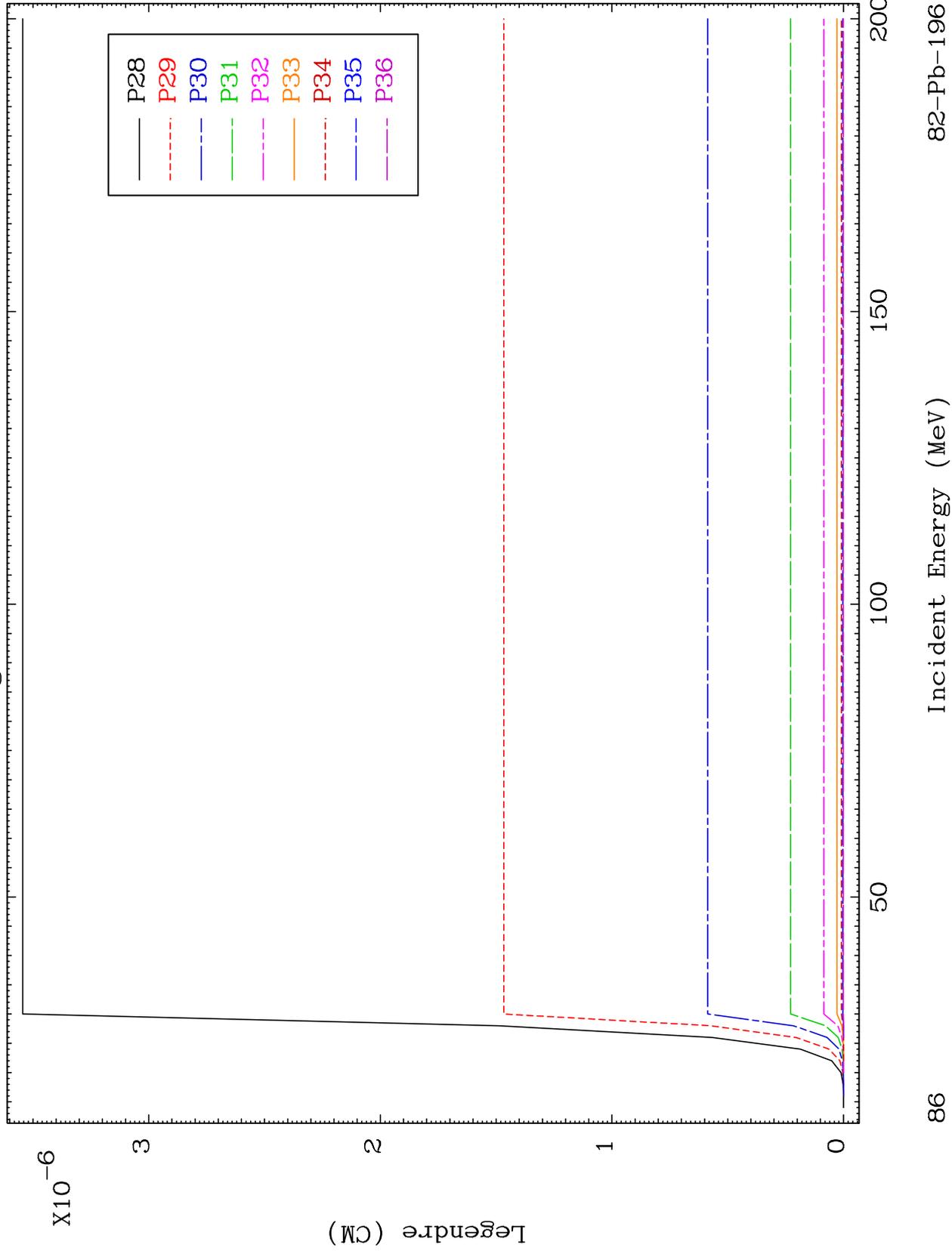
82-Pb-196



MAT 8201

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

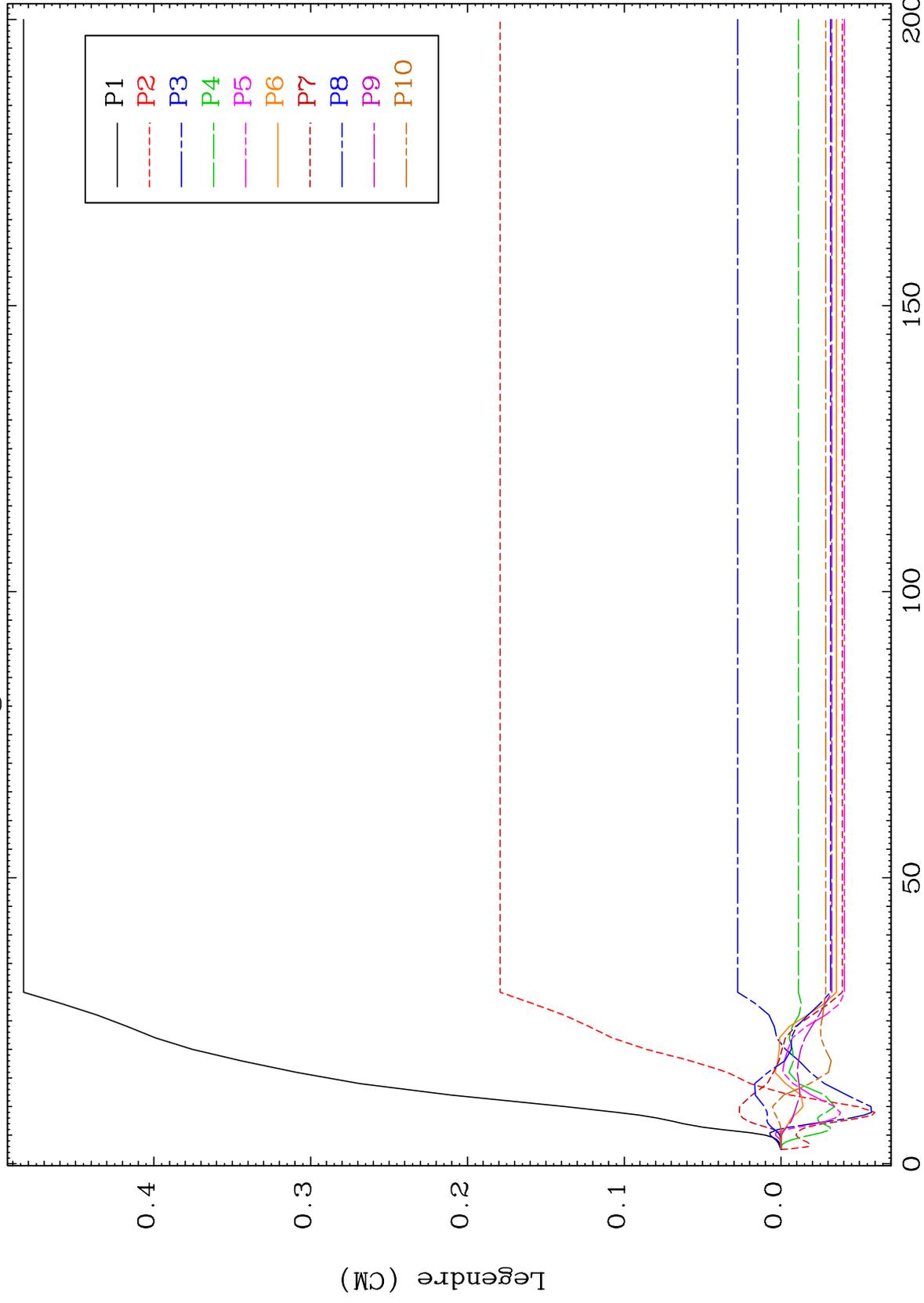
82-Pb-196



MAT 8201

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

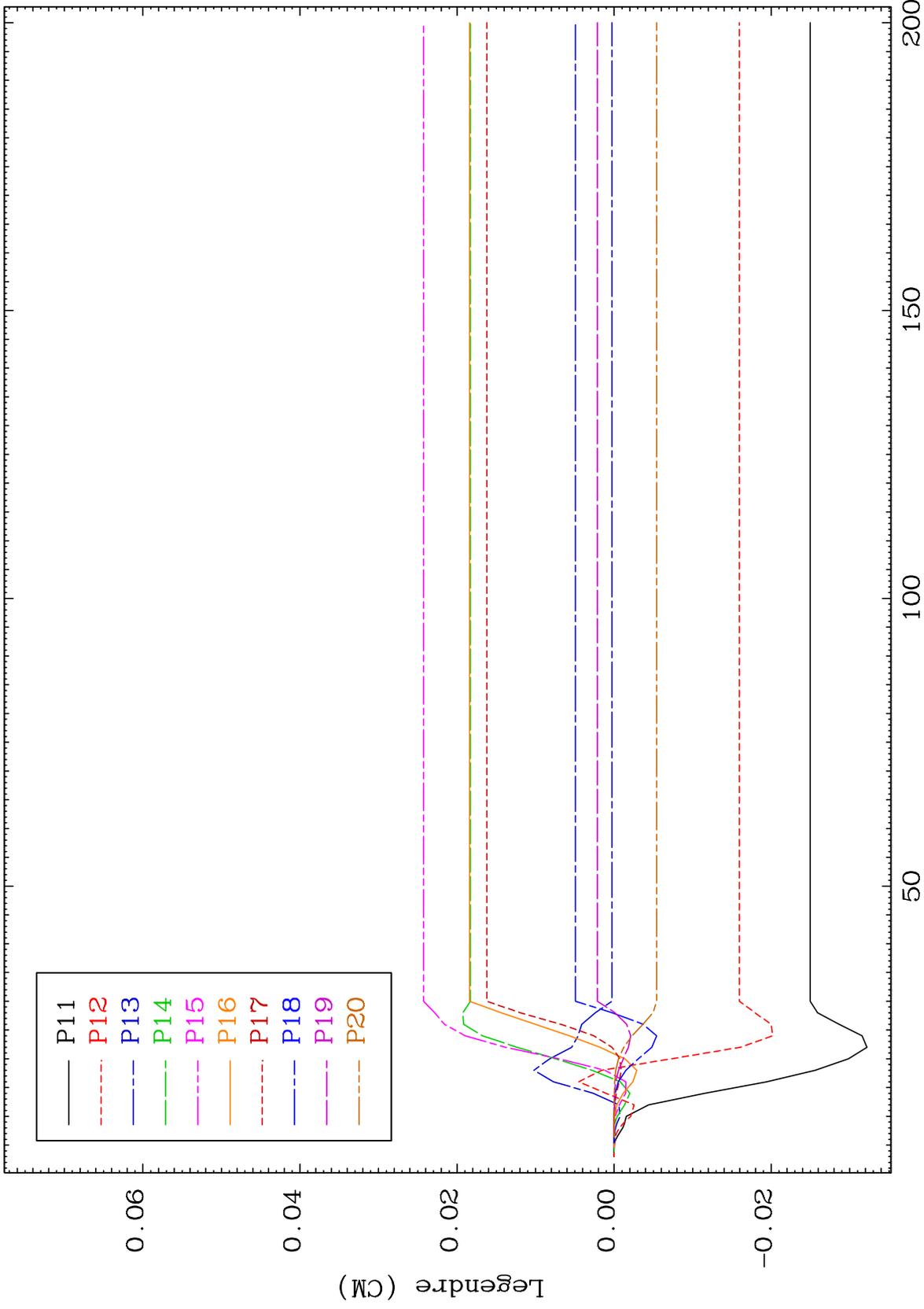
82-Pb-196

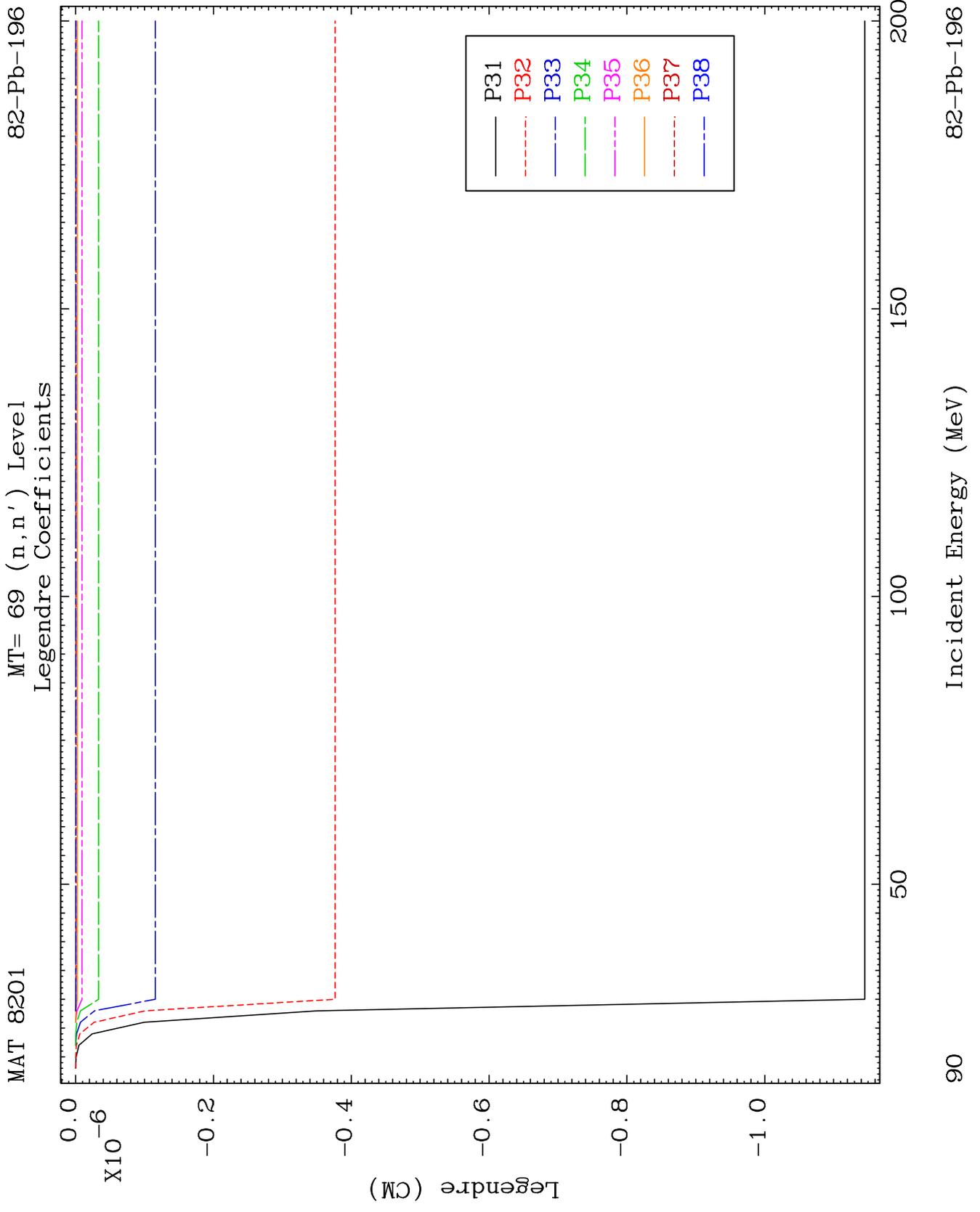


87

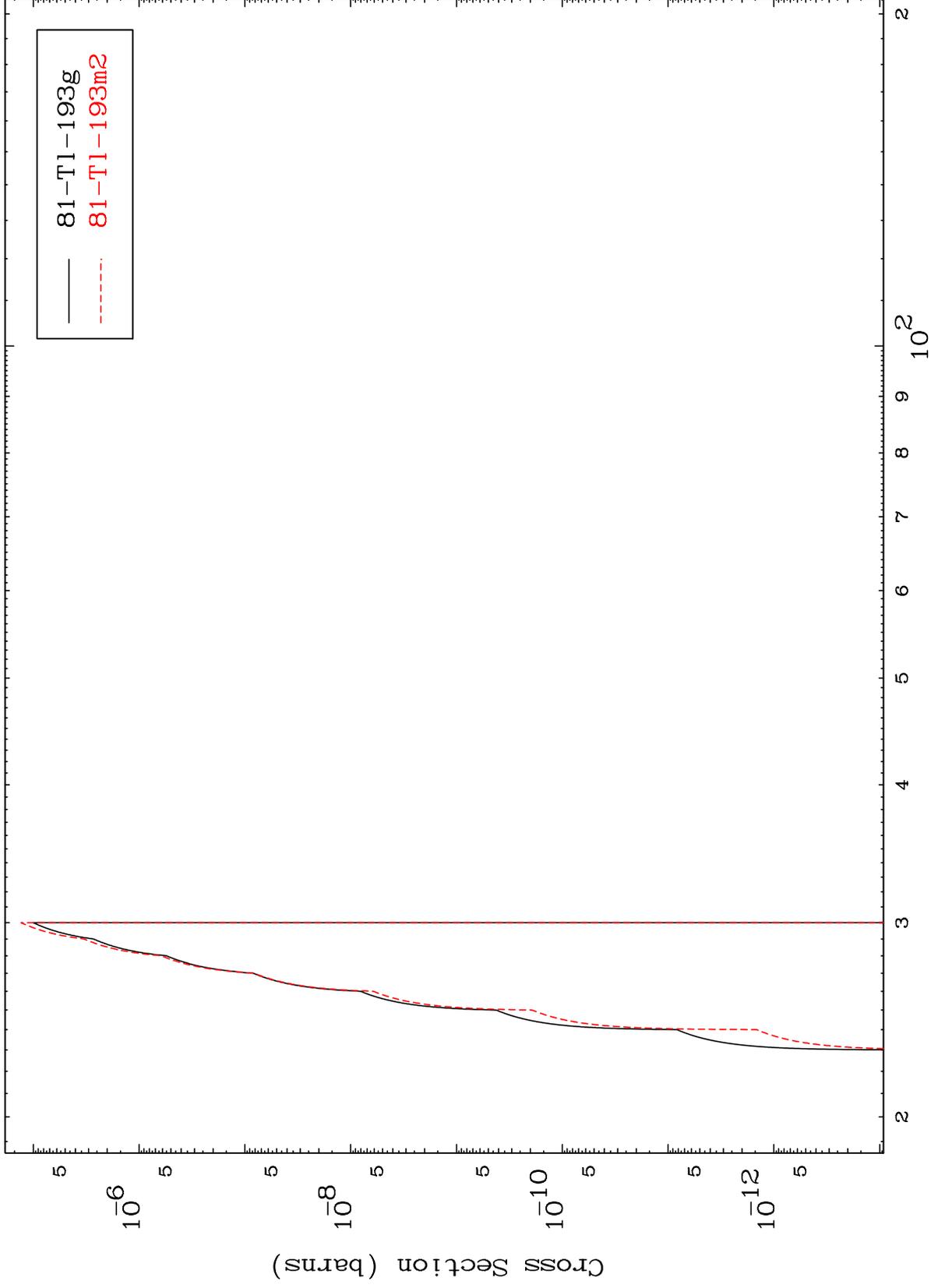
Incident Energy (MeV)

82-Pb-196





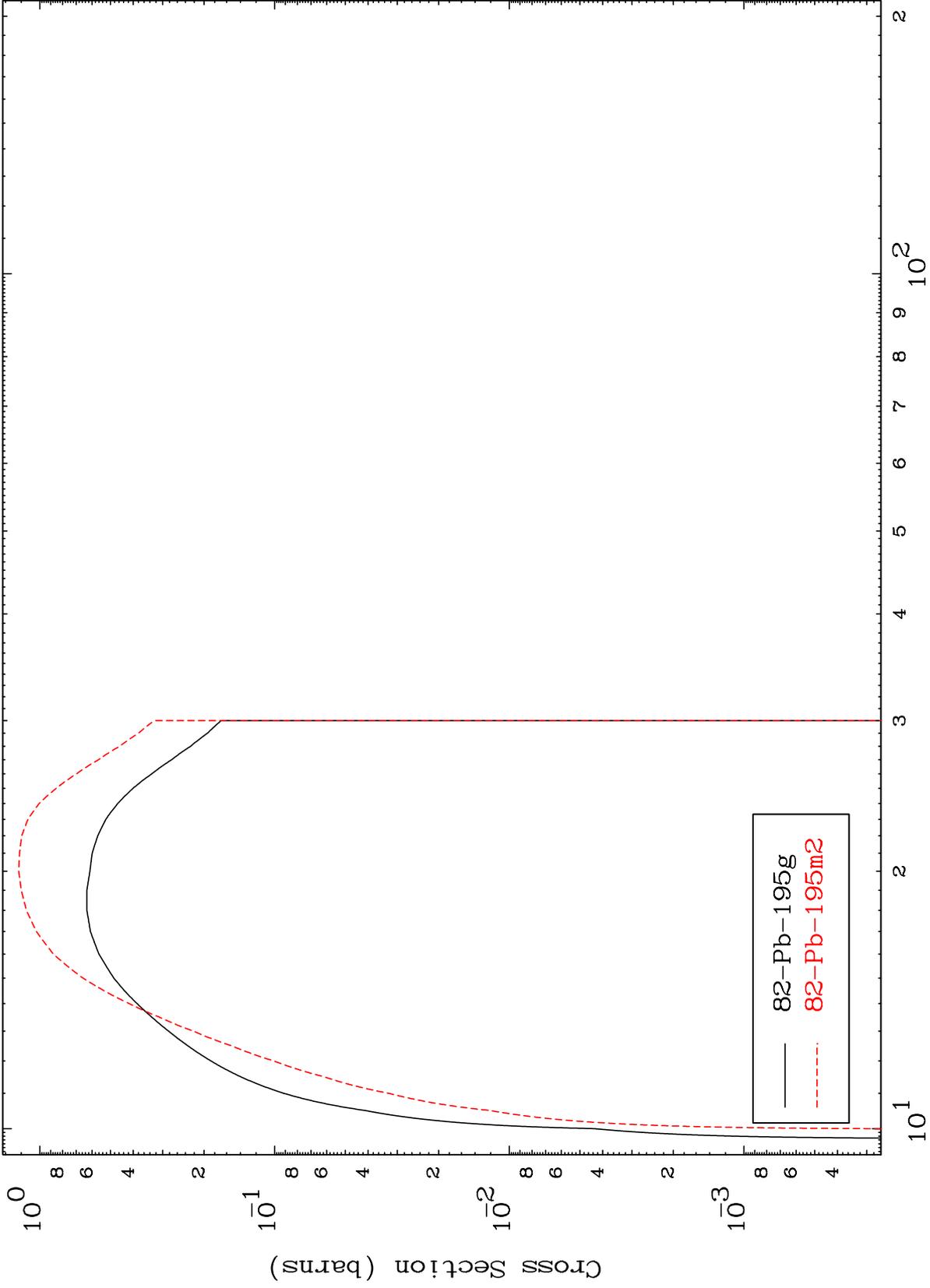
Radionuclide Production Cross Section



MAT 8201

82-Pb-196

(n,2n)
Radionuclide Production Cross Section



82-Pb-196

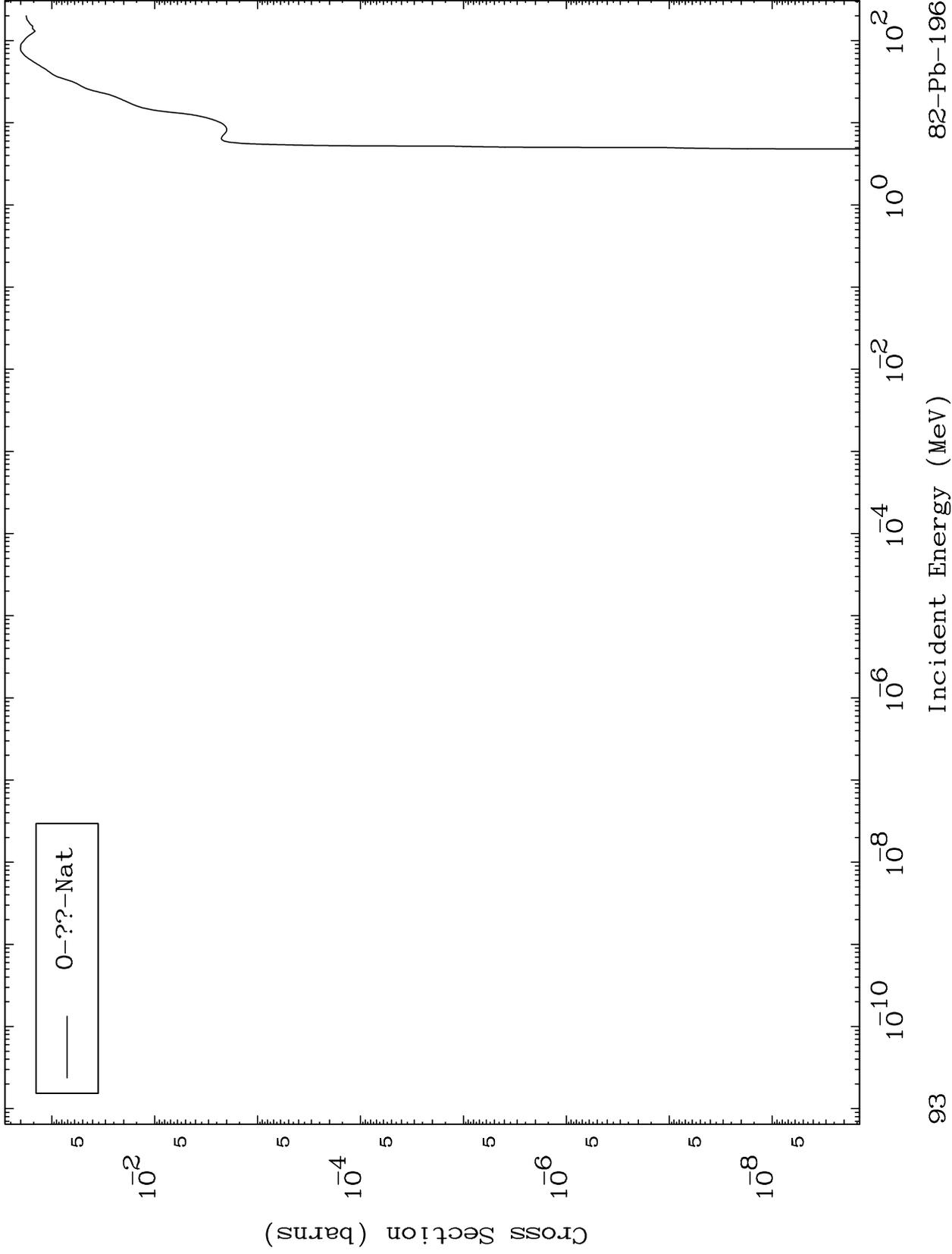
Incident Energy (MeV)

92

MAT 8201

Fission
Radionuclide Production Cross Section

82-Pb-196

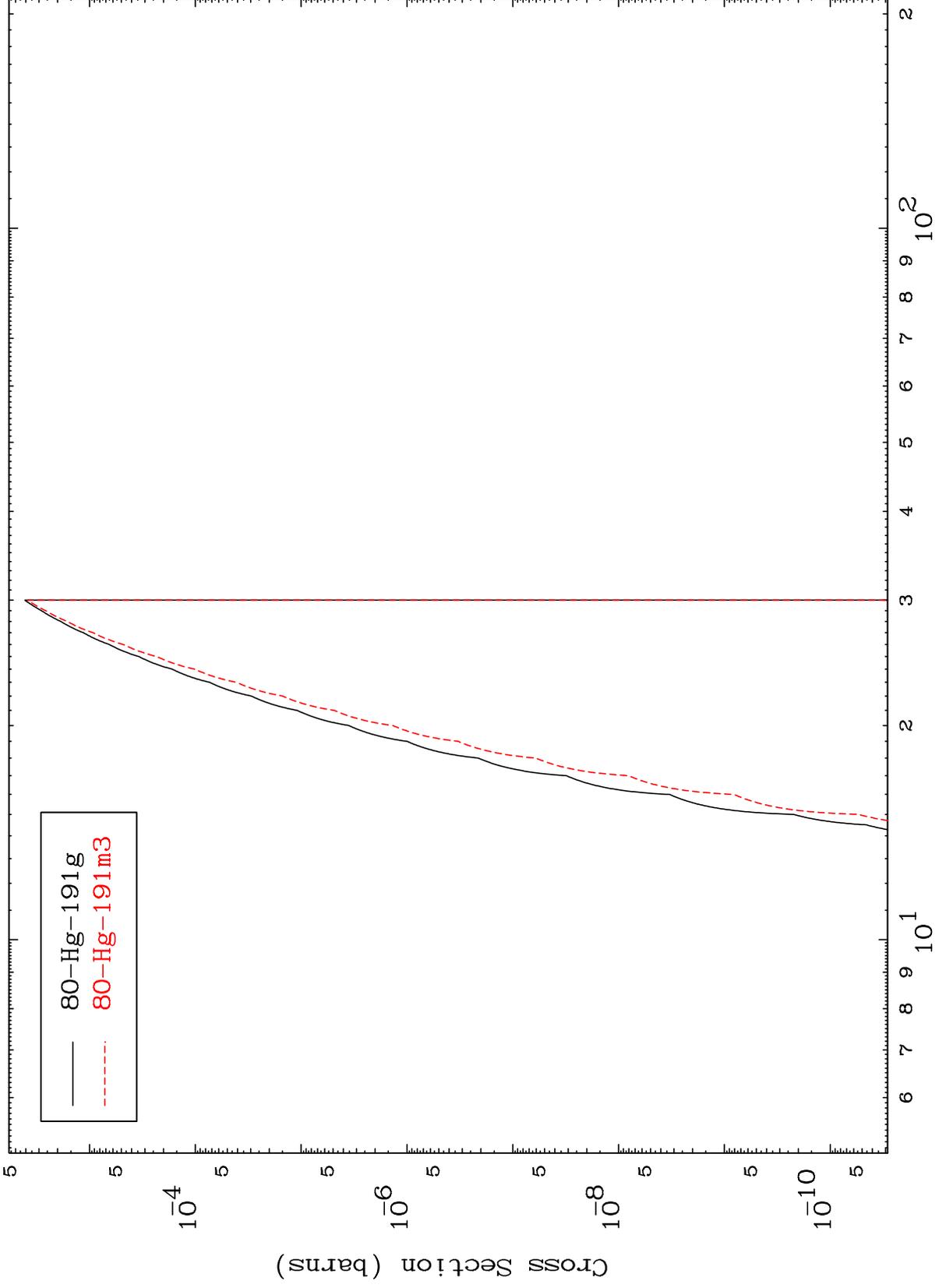


MAT 8201

(n,2n) α

82-Pb-196

Radionuclide Production Cross Section



94

Incident Energy (MeV)

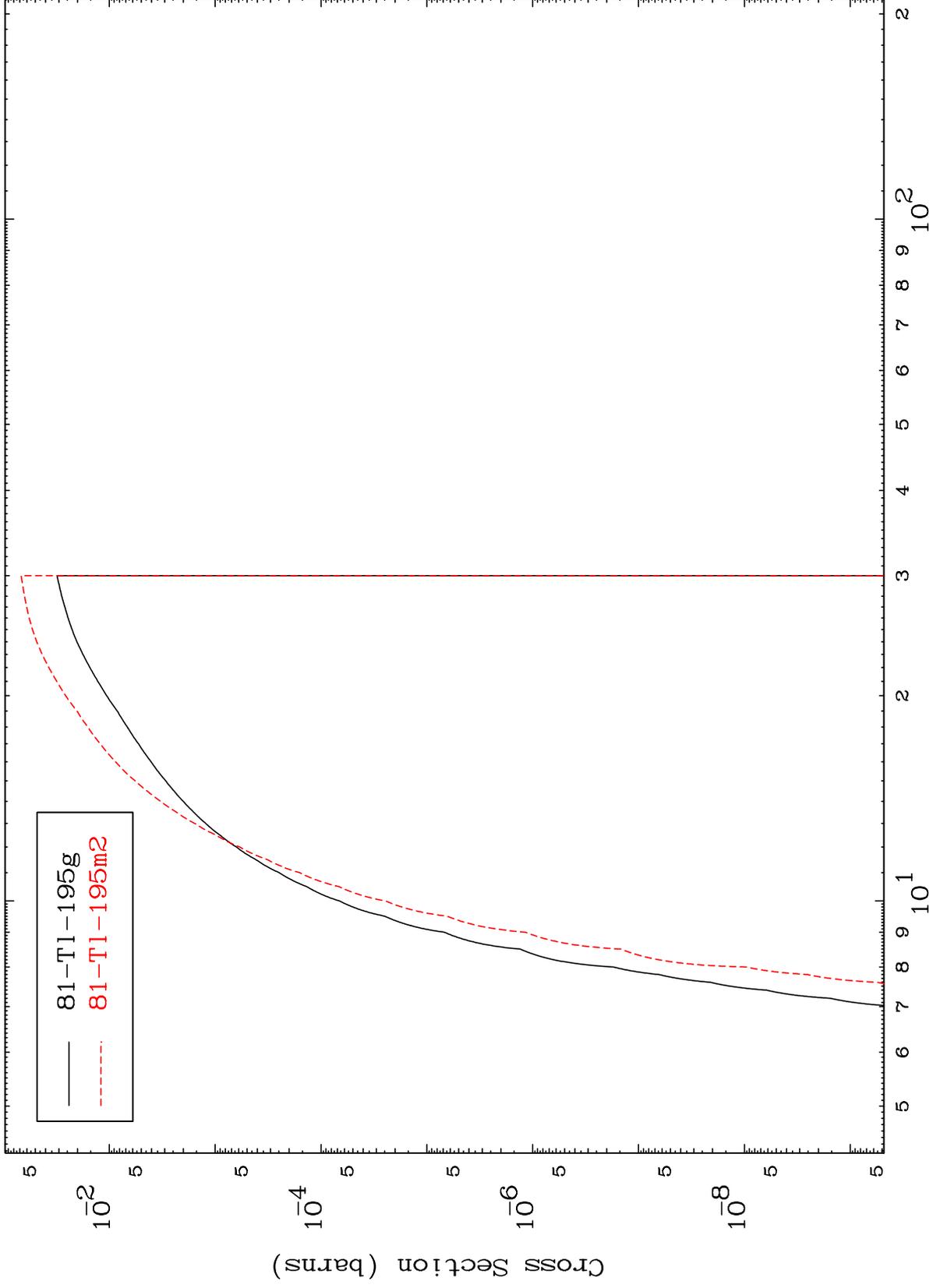
82-Pb-196

MAT 8201

(n,n') p

82-Pb-196

Radionuclide Production Cross Section

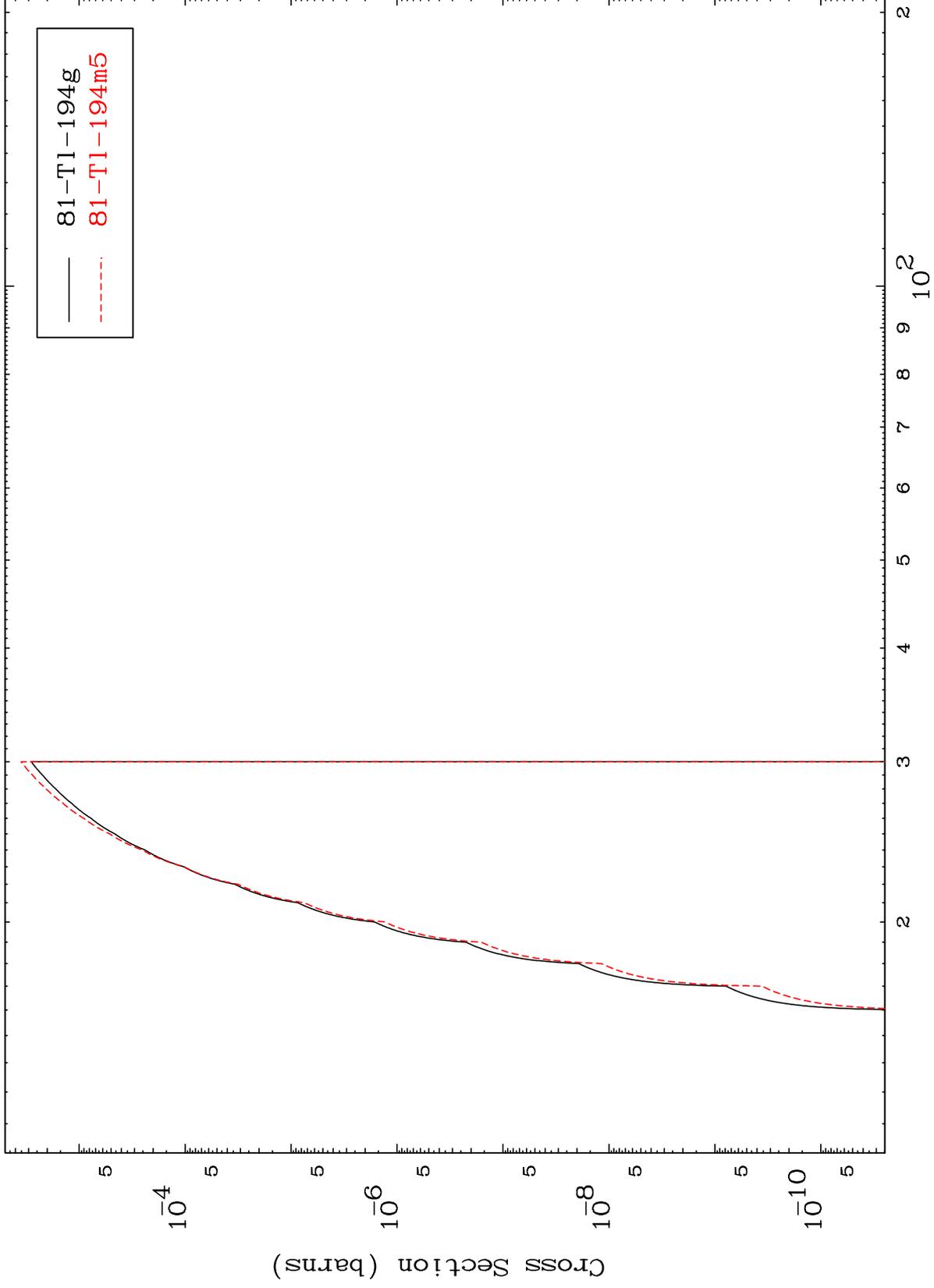


95

Incident Energy (MeV)

82-Pb-196

Radionuclide Production Cross Section

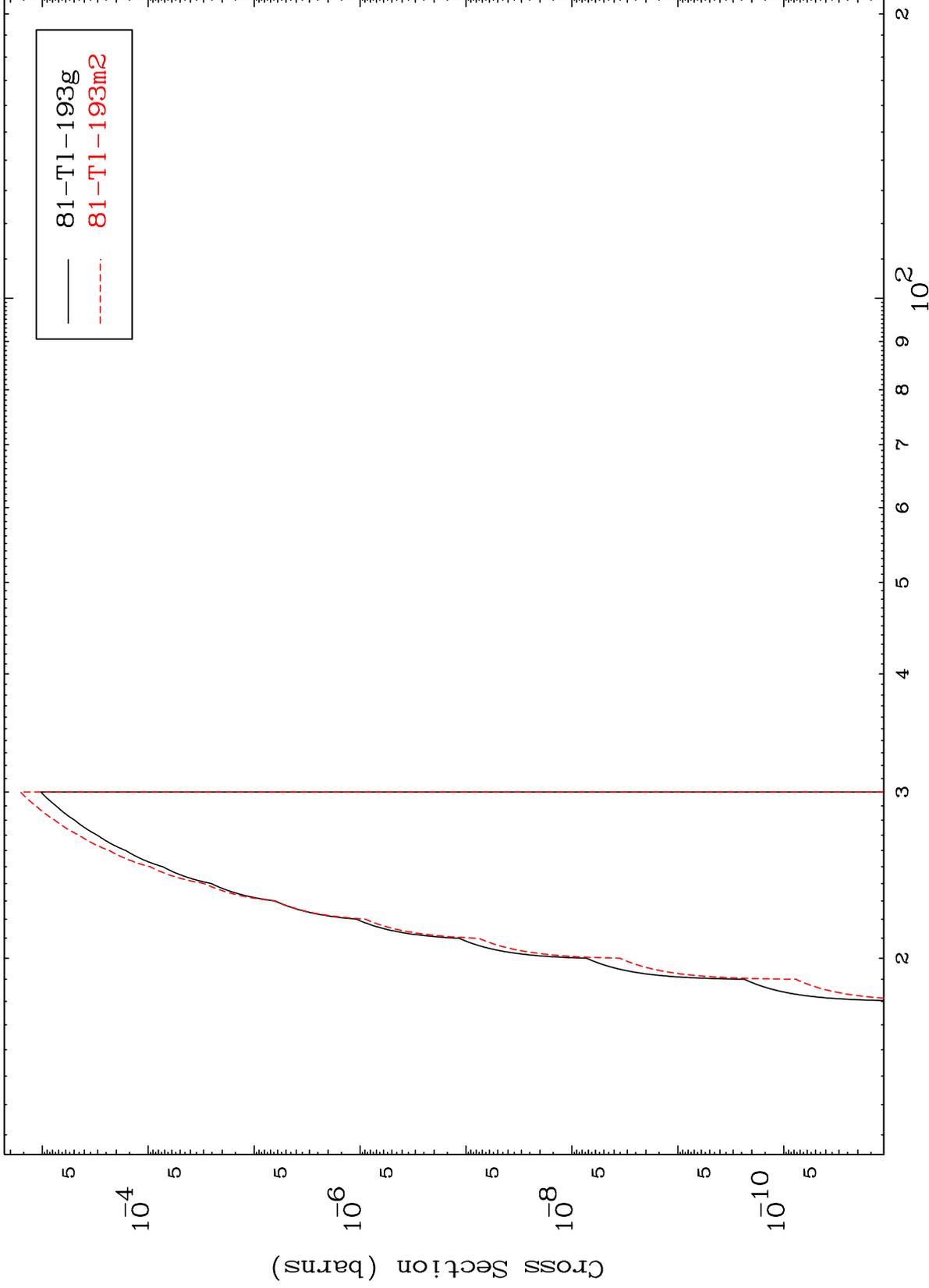


MAT 8201

(n,n') t

82-Pb-196

Radionuclide Production Cross Section



97

Incident Energy (MeV)

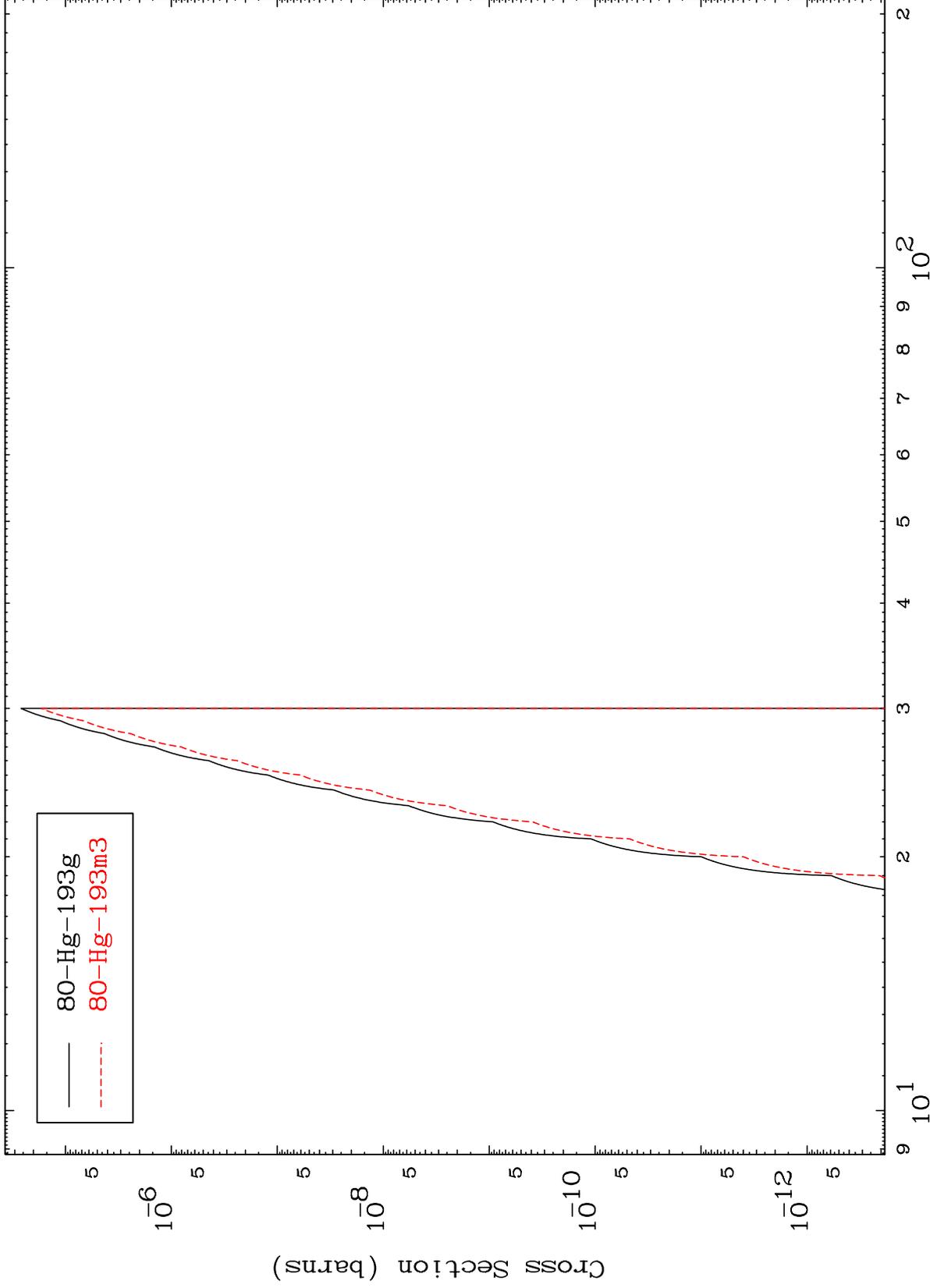
82-Pb-196

MAT 8201

(n,n') He-3

82-Pb-196

Radionuclide Production Cross Section



98

Incident Energy (MeV)

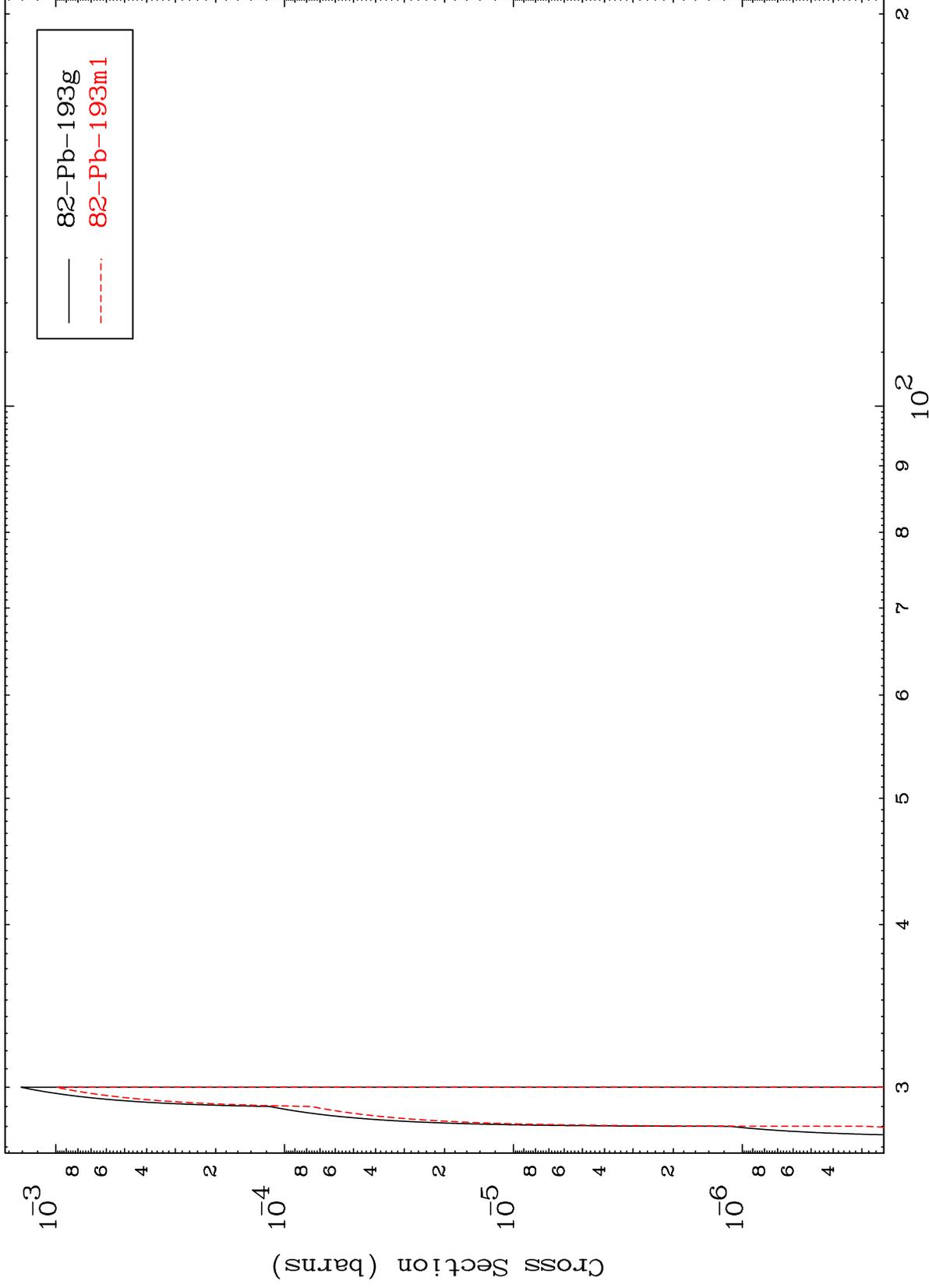
82-Pb-196

MAT 8201

(n,4n)

82-Pb-196

Radionuclide Production Cross Section



82-Pb-193g
82-Pb-193m1

99

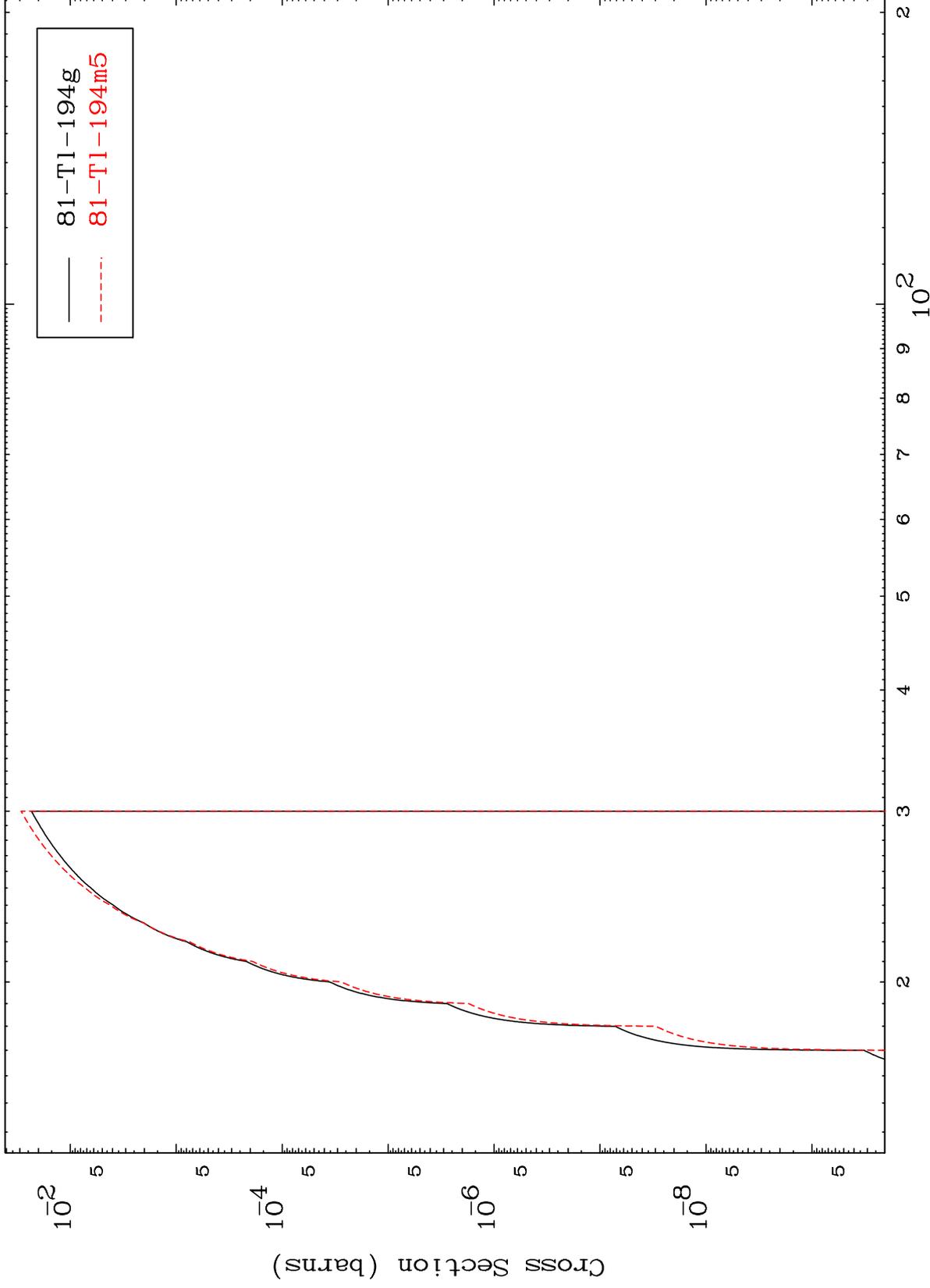
Incident Energy (MeV)

82-Pb-196

MAT 8201

82-Pb-196

(n,2n) p
Radionuclide Production Cross Section



82-Pb-196

Incident Energy (MeV)

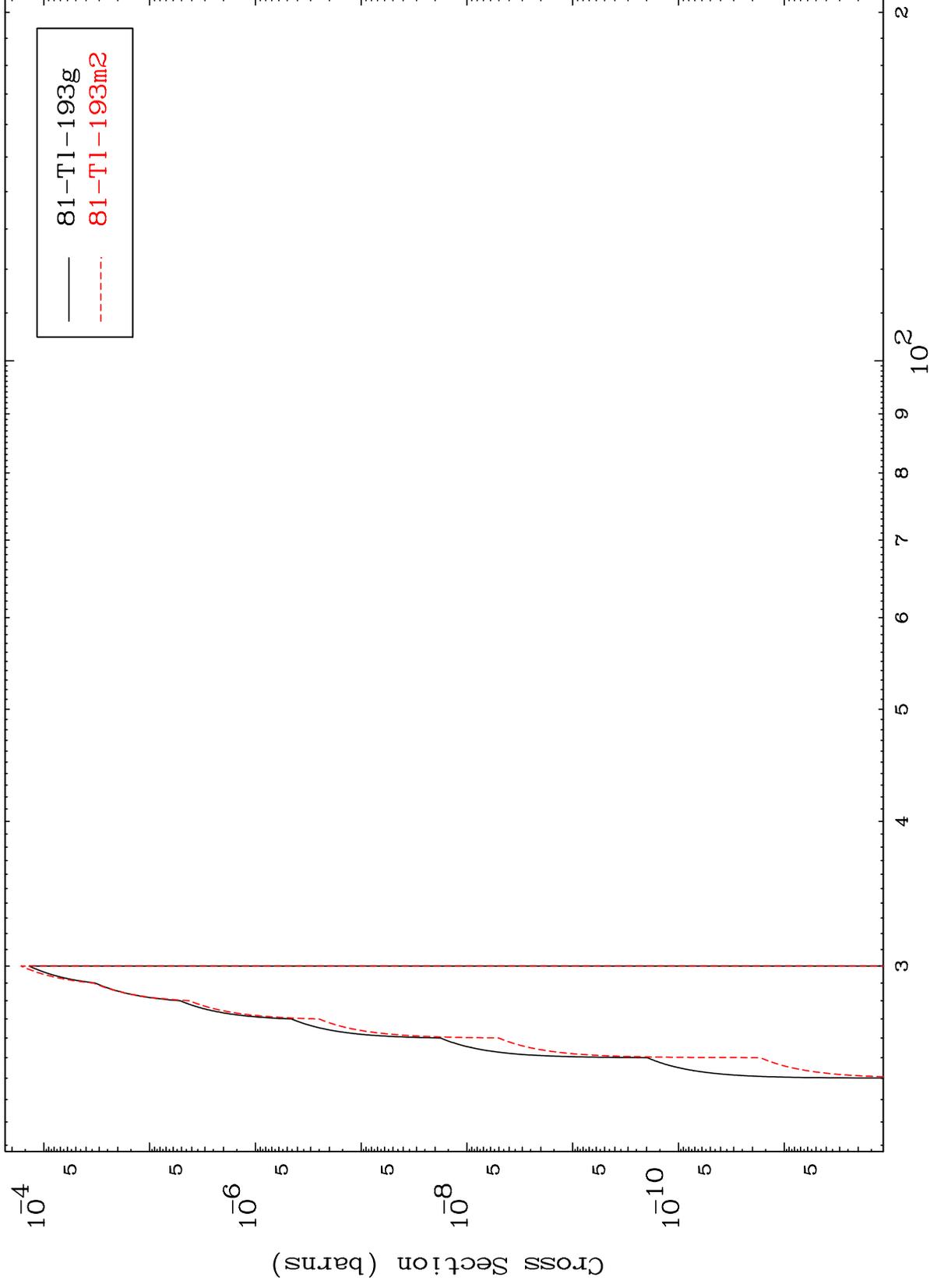
100

MAT 8201

(n,3n) p

82-Pb-196

Radionuclide Production Cross Section



101

Incident Energy (MeV)

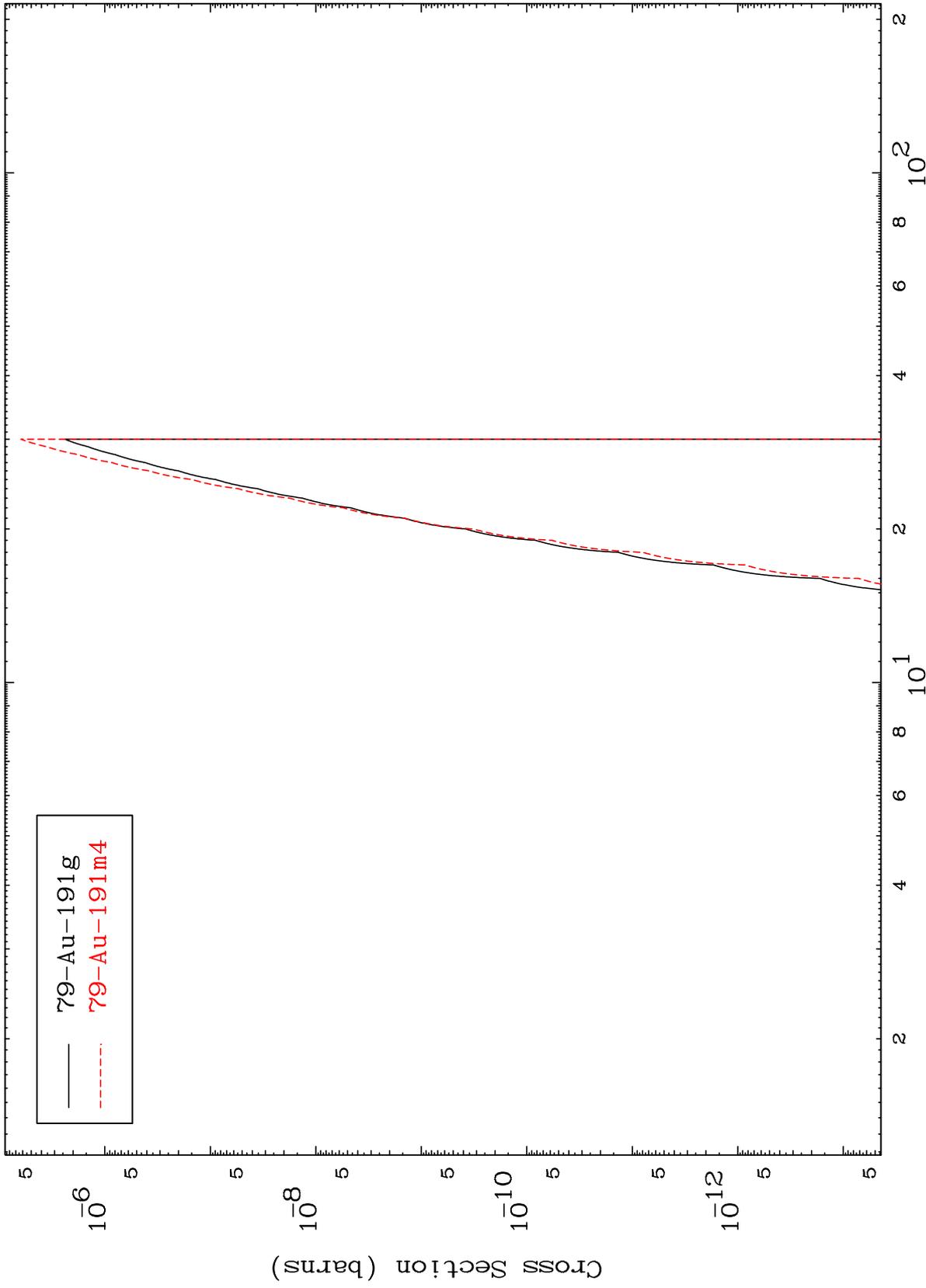
82-Pb-196

MAT 8201

(n,n') p α

82-Pb-196

Radionuclide Production Cross Section



102

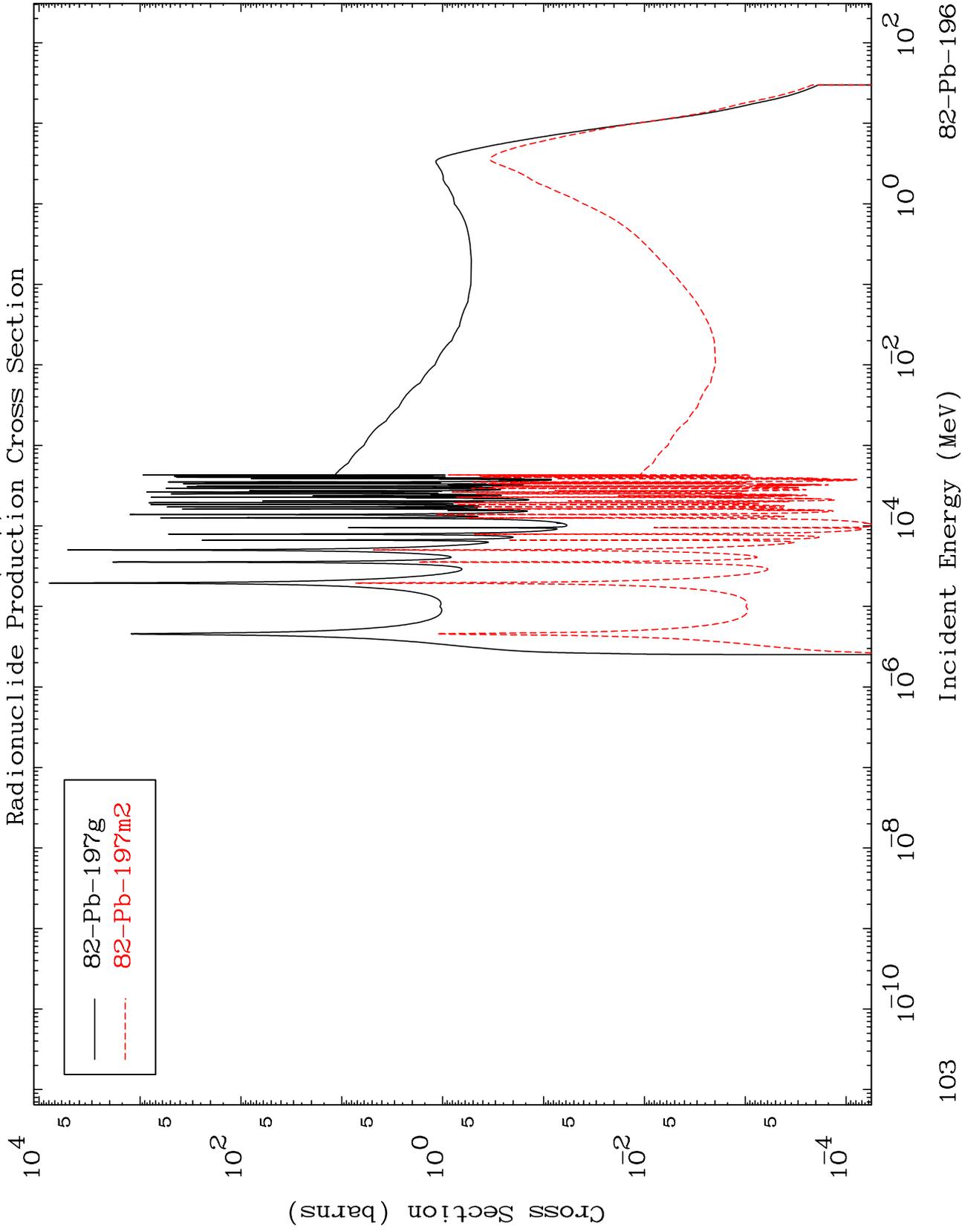
Incident Energy (MeV)

82-Pb-196

MAT 8201

82-Pb-196

(n, γ)
Radionuclide Production Cross Section



103

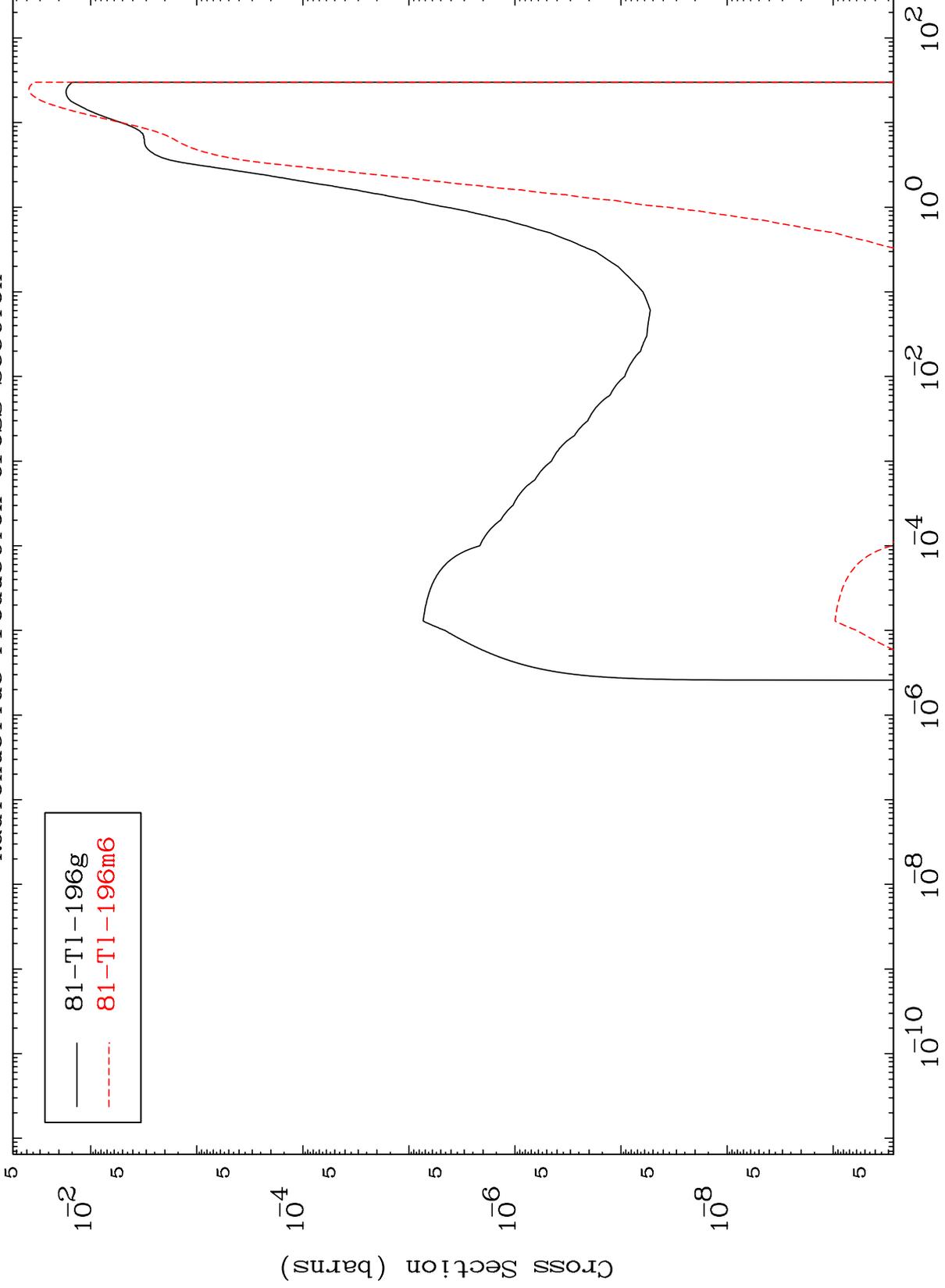
82-Pb-196

MAT 8201

(n,p)

82-Pb-196

Radionuclide Production Cross Section



104

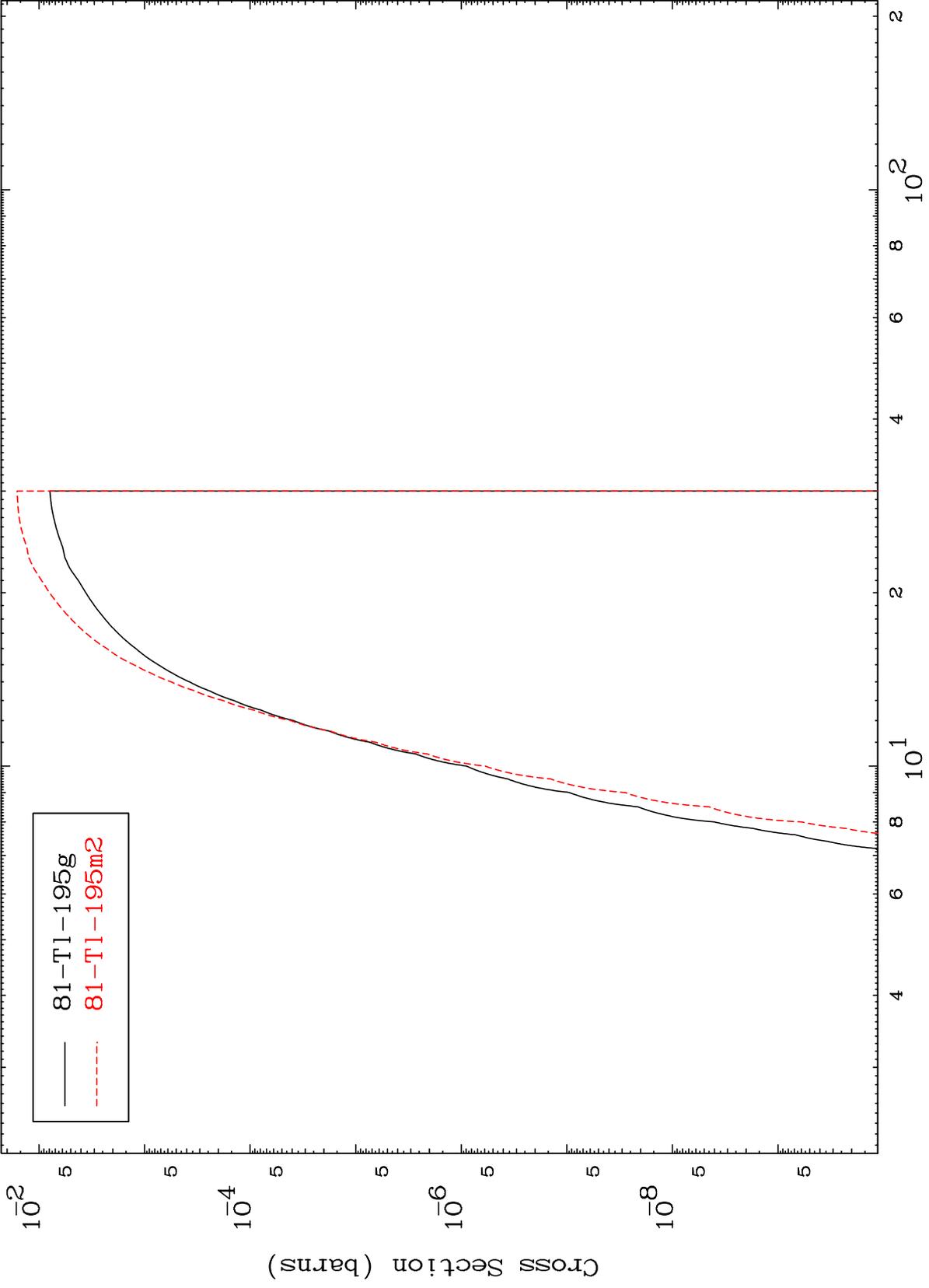
Incident Energy (MeV)

82-Pb-196

MAT 8201

82-Pb-196

(n,d)
Radionuclide Production Cross Section



105

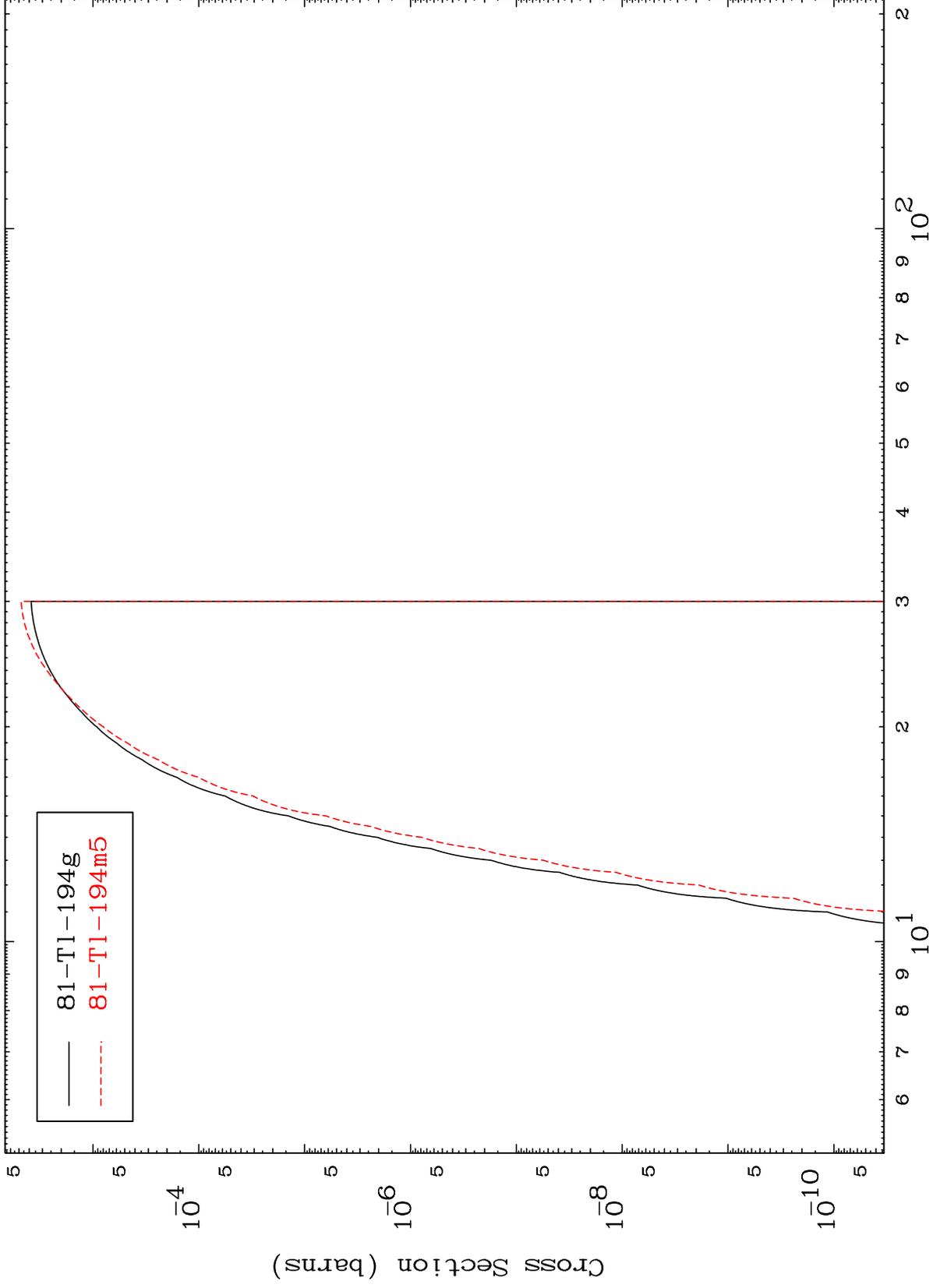
82-Pb-196

Incident Energy (MeV)

MAT 8201

82-Pb-196

(n, t)
Radionuclide Production Cross Section



106

Incident Energy (MeV)

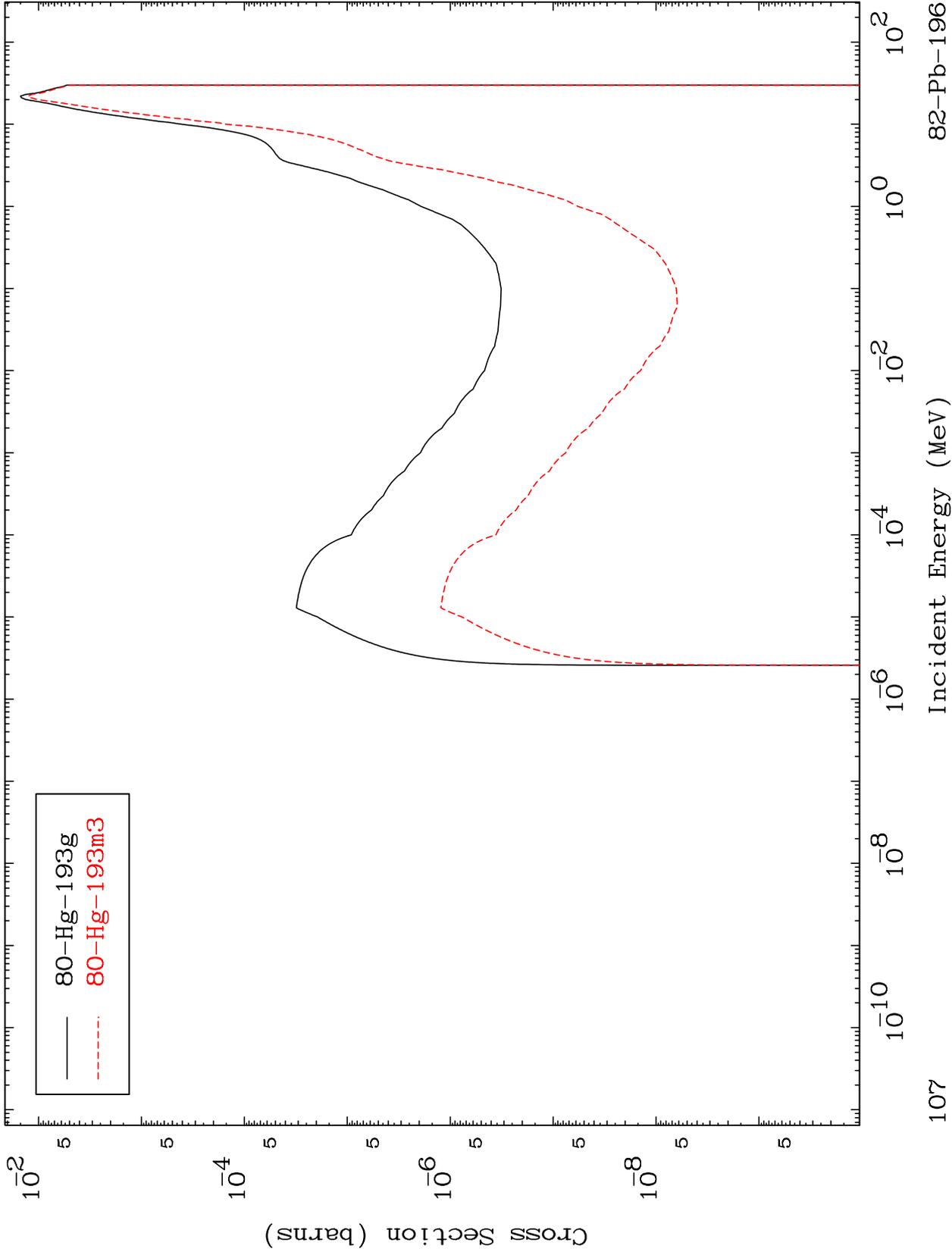
82-Pb-196

MAT 8201

(n, α)

82-Pb-196

Radionuclide Production Cross Section



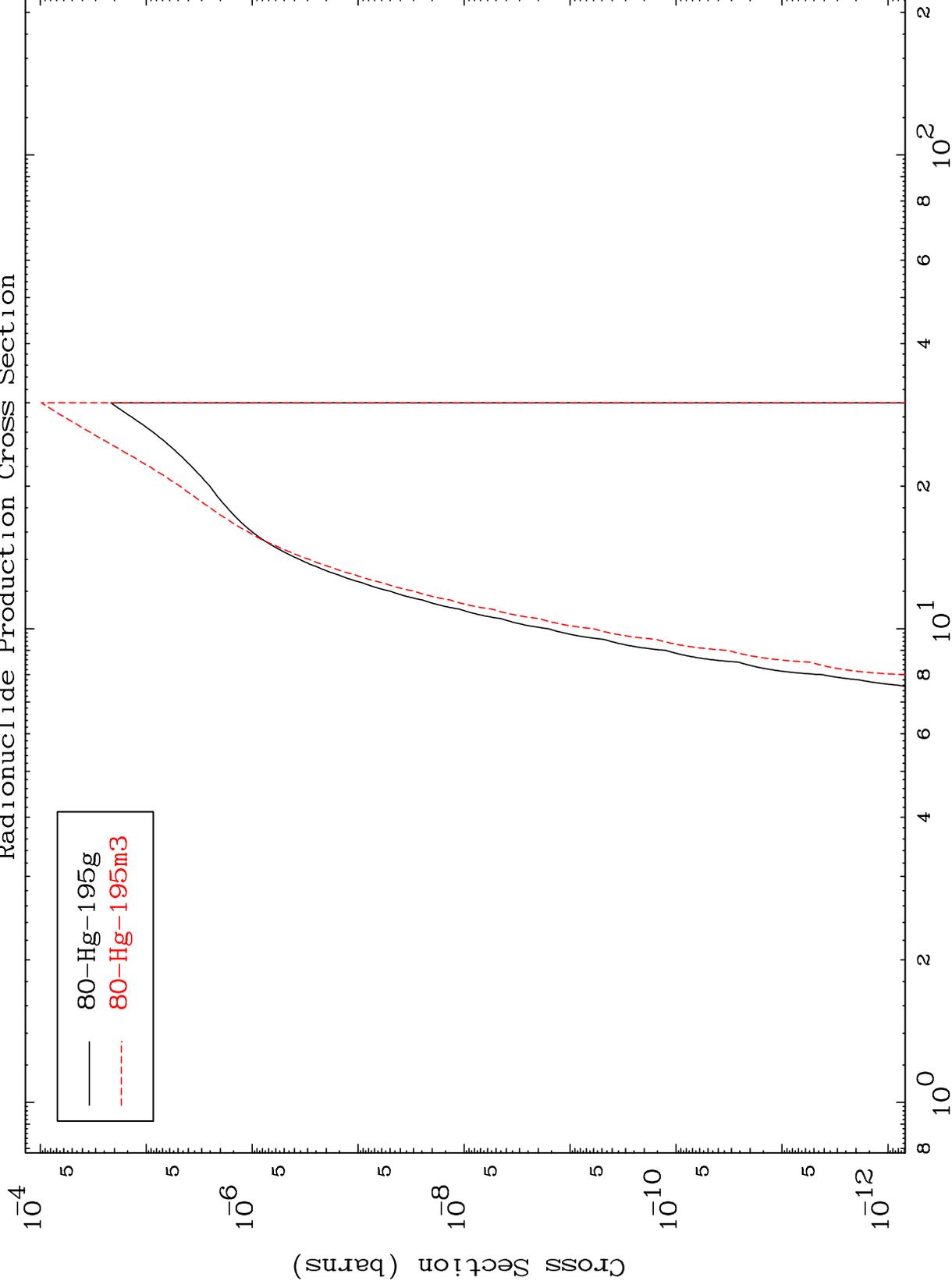
80-Hg-193g
80-Hg-193m3

MAT 8201

(n,2p)

82-Pb-196

Radionuclide Production Cross Section



108

Incident Energy (MeV)

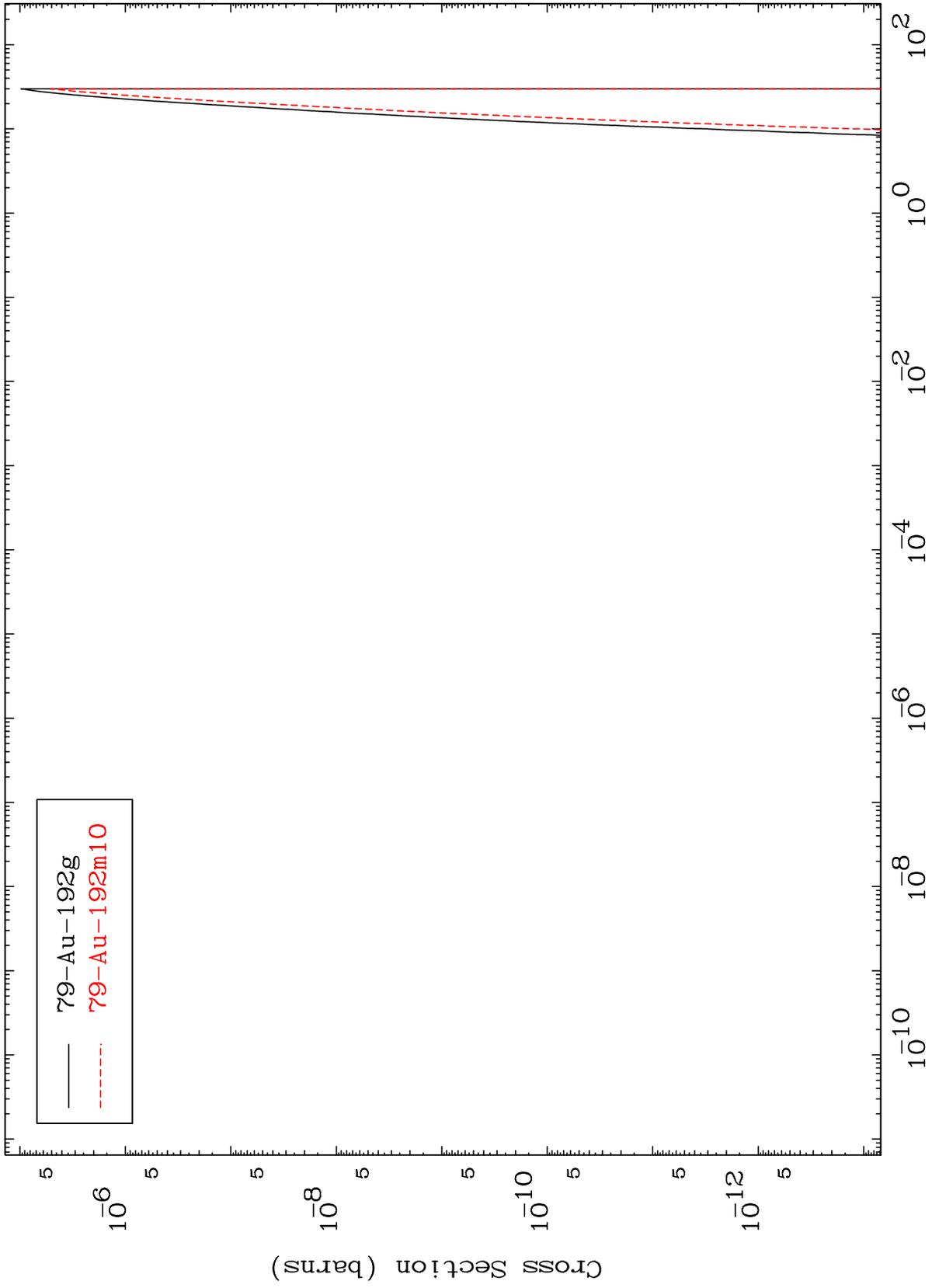
82-Pb-196

MAT 8201

(n,p) α

82-Pb-196

Radionuclide Production Cross Section

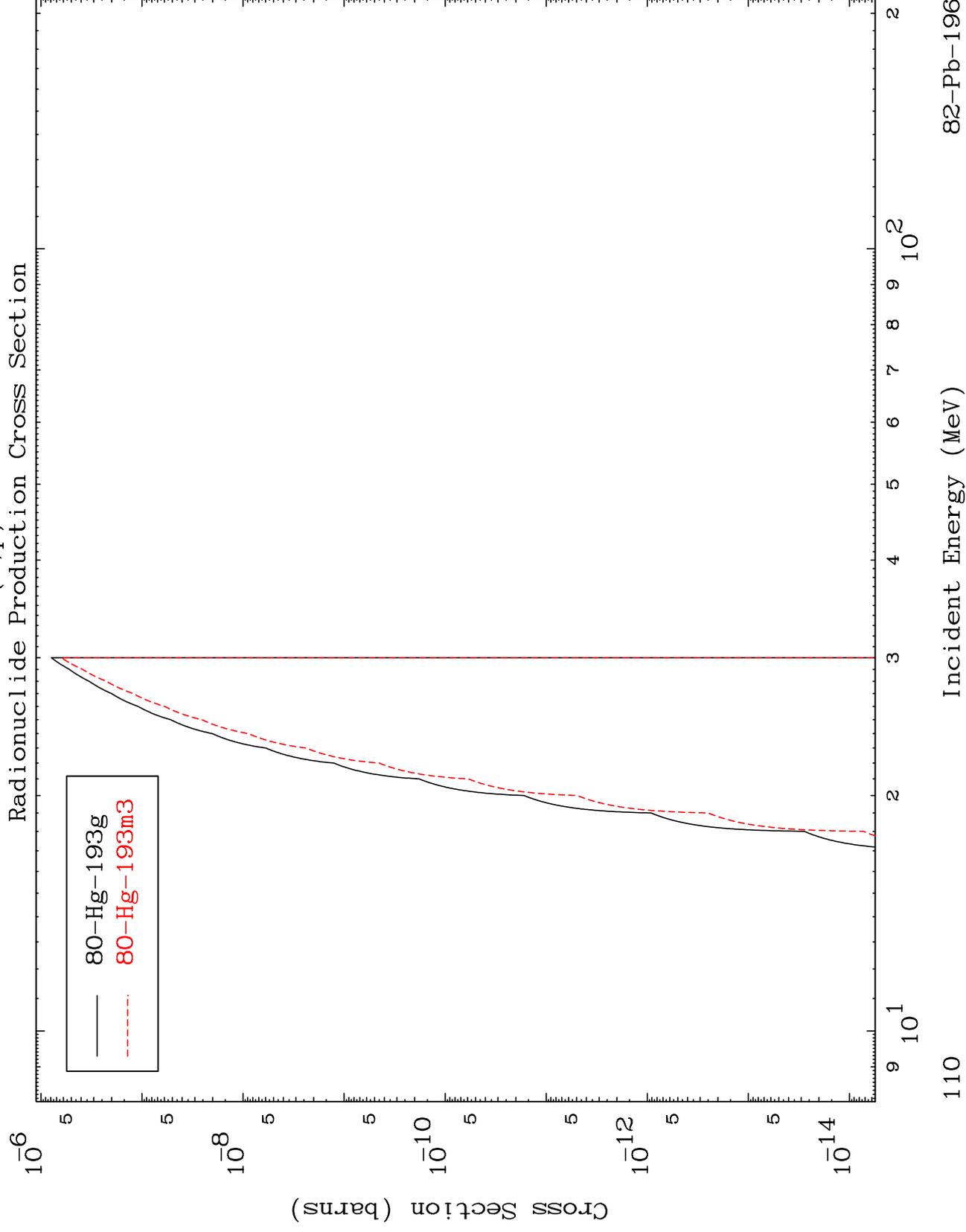


— 79-Au-192g
- - - 79-Au-192m10

MAT 8201

(n,p) t

82-Pb-196



110

MAT 8201

(n,d) α

82-Pb-196

Radionuclide Production Cross Section

