

Program EVALPLOT
(Version 2017-1)

by

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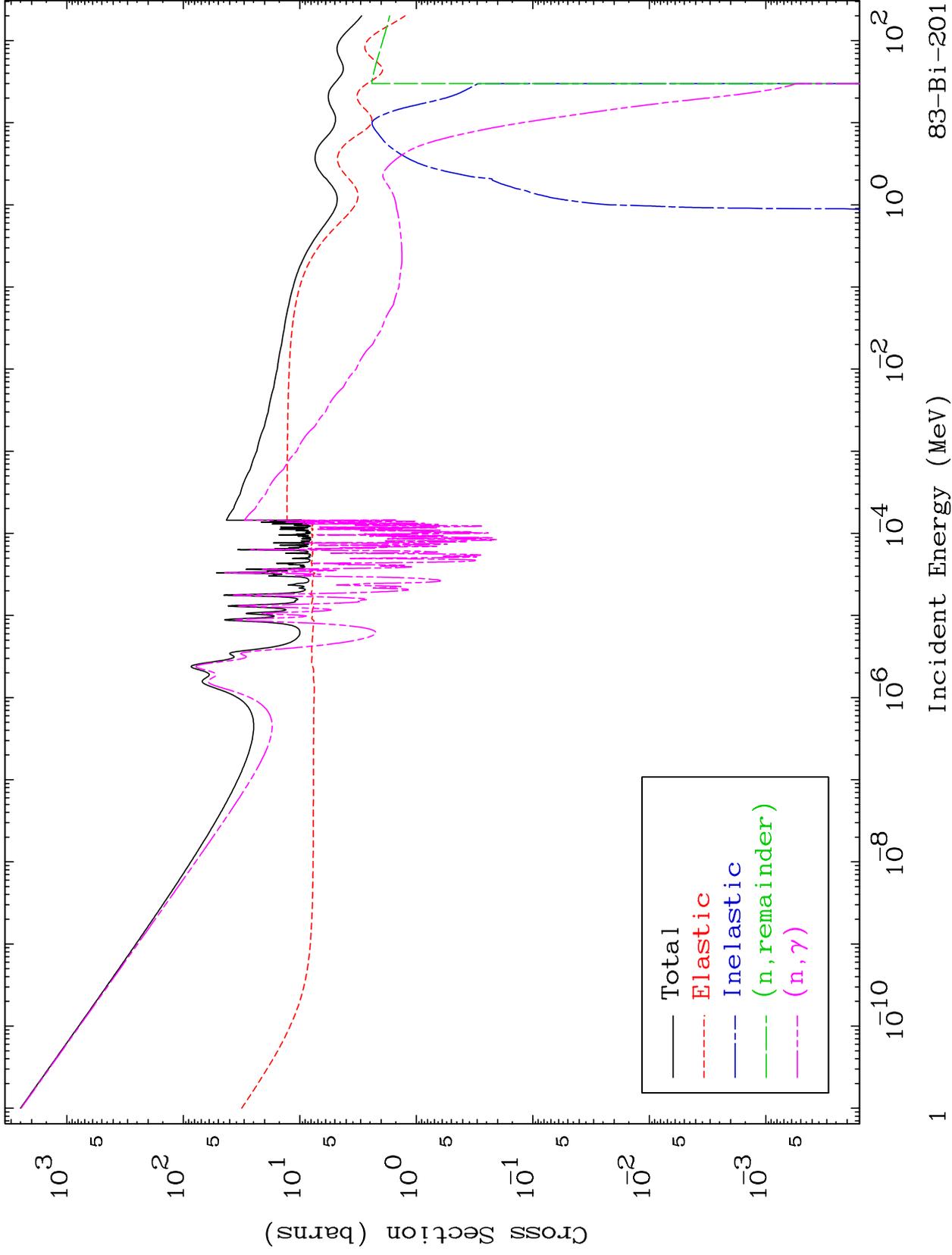
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MAT 8301

Major

293 Kelvin Cross Sections

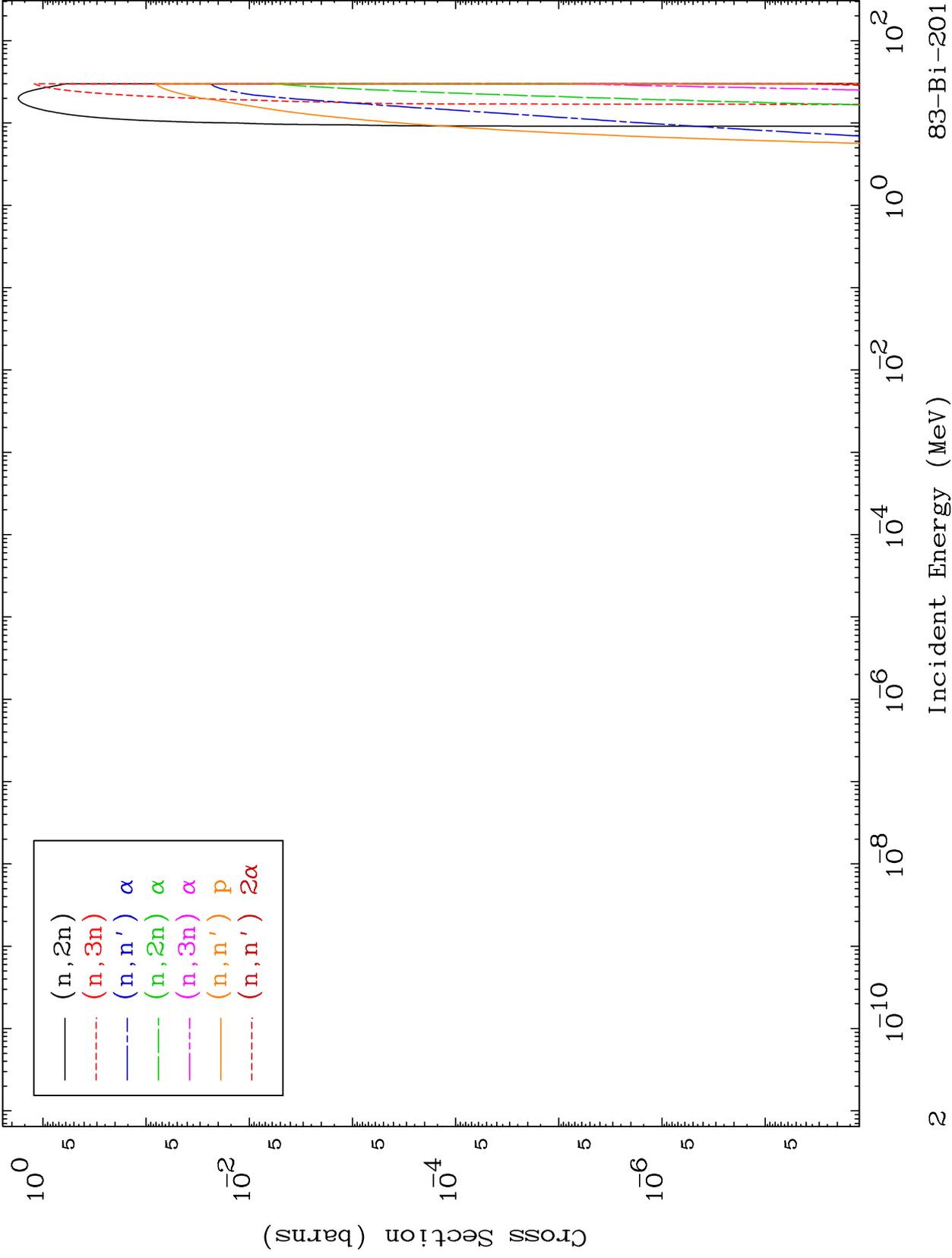
83-Bi-201



MAT 8301

Neutron Production
293 Kelvin Cross Sections

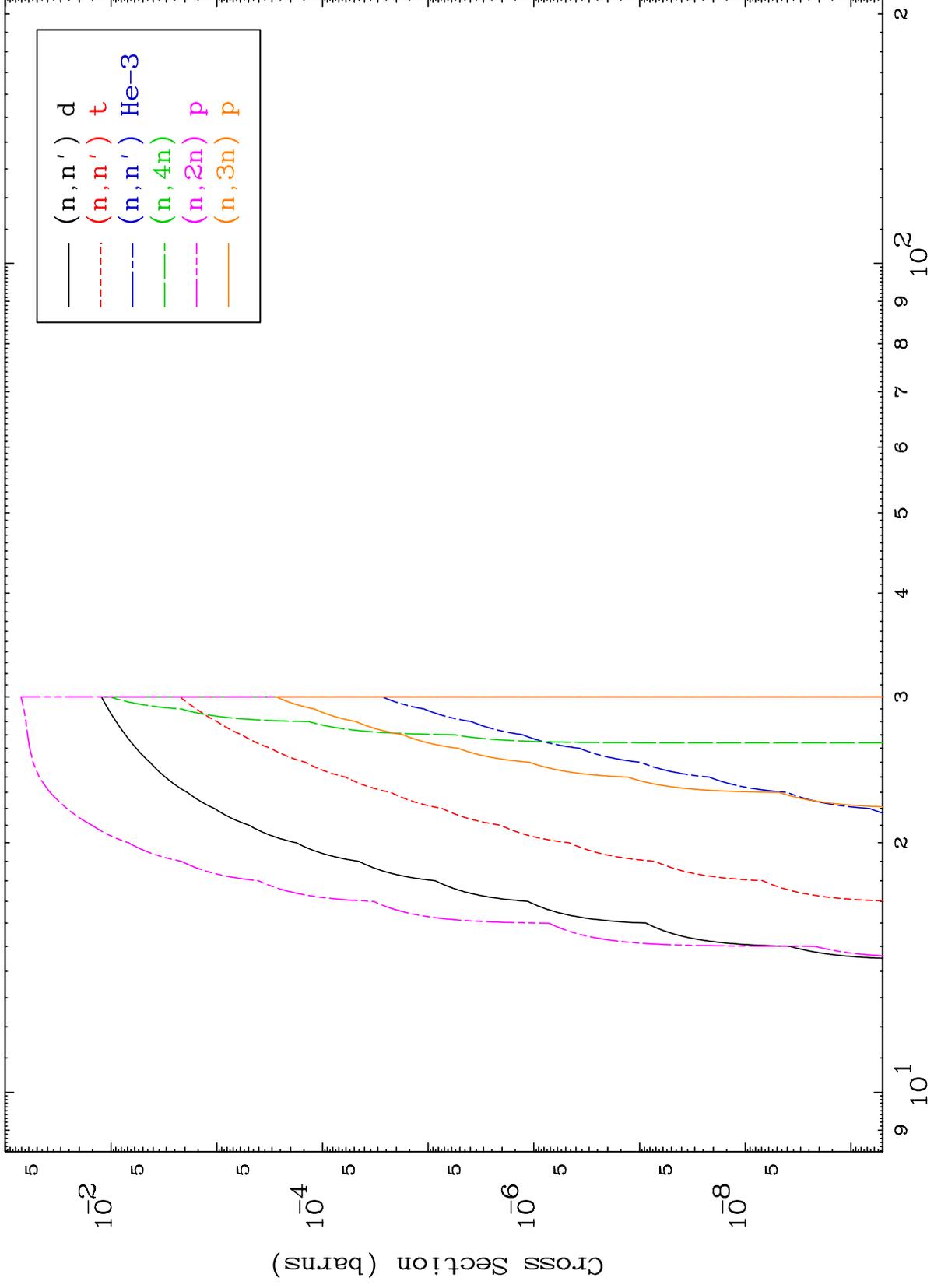
83-Bi-201



MAT 8301

Neutron Production
293 Kelvin Cross Sections

83-Bi-201



Incident Energy (MeV)

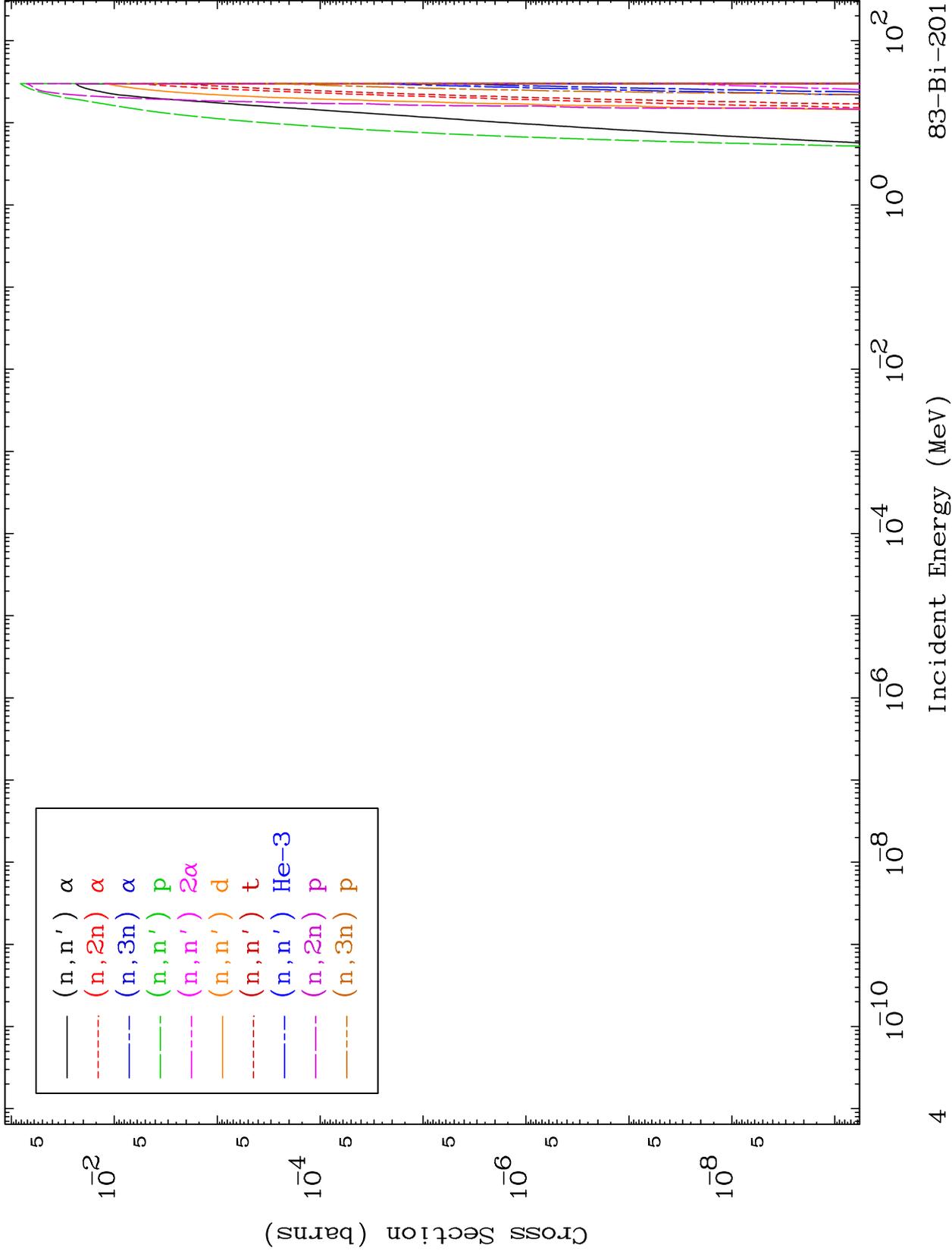
83-Bi-201

3

MAT 8301

Charged Particle
293 Kelvin Cross Sections

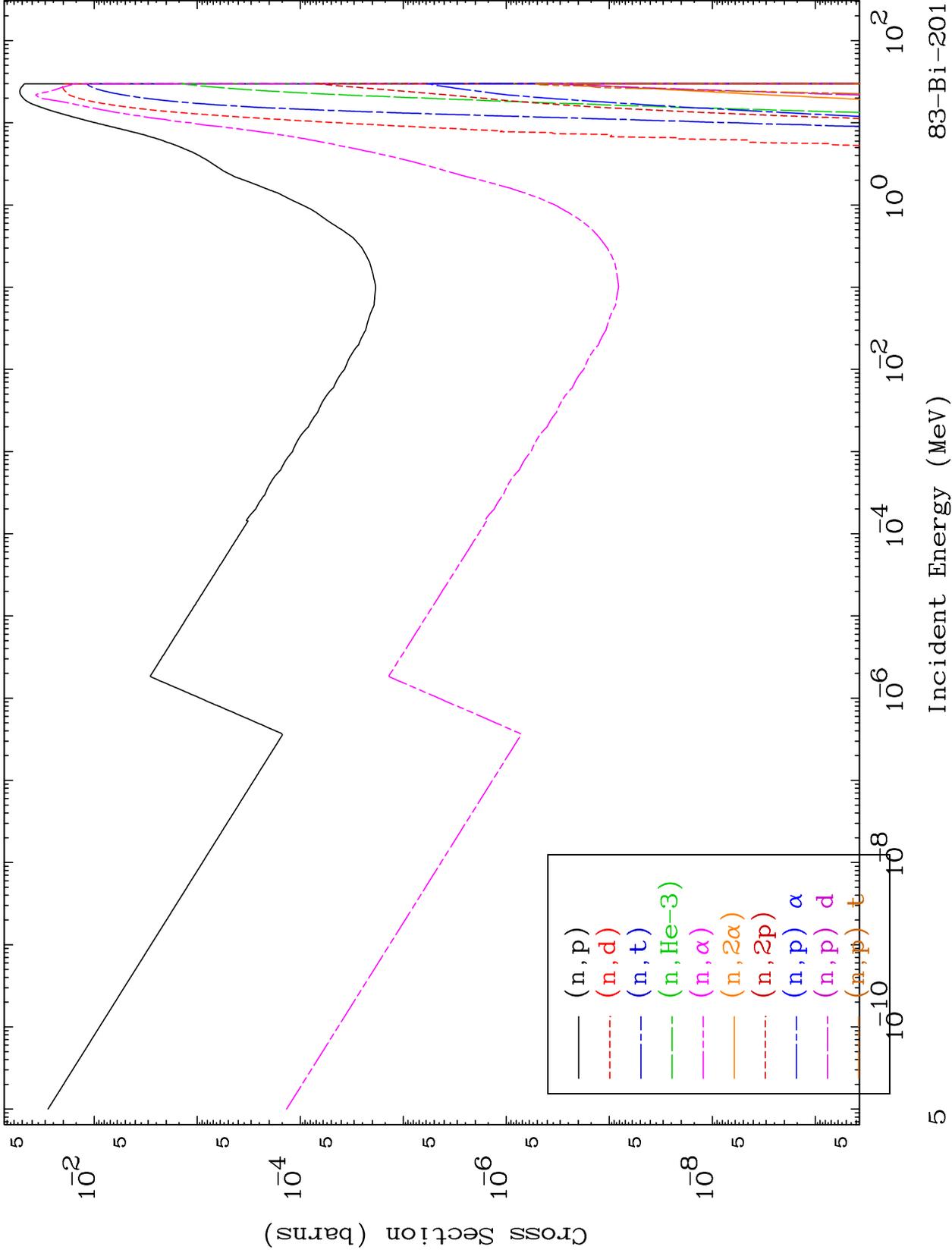
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MAT 8301

Charged Particle
293 Kelvin Cross Sections

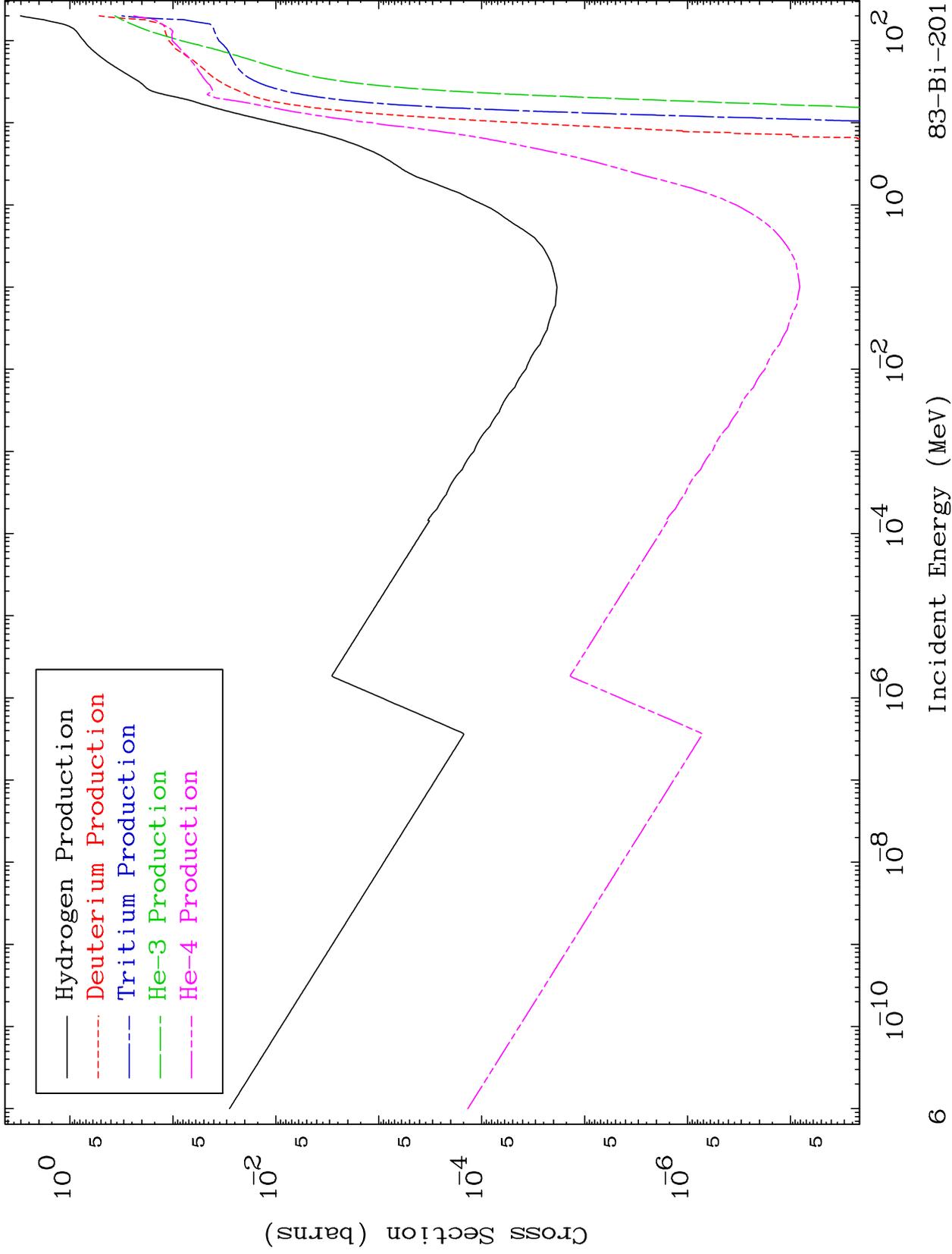
83-Bi-201



MAT 8301

Particle Production
293 Kelvin Cross Sections

83-Bi-201

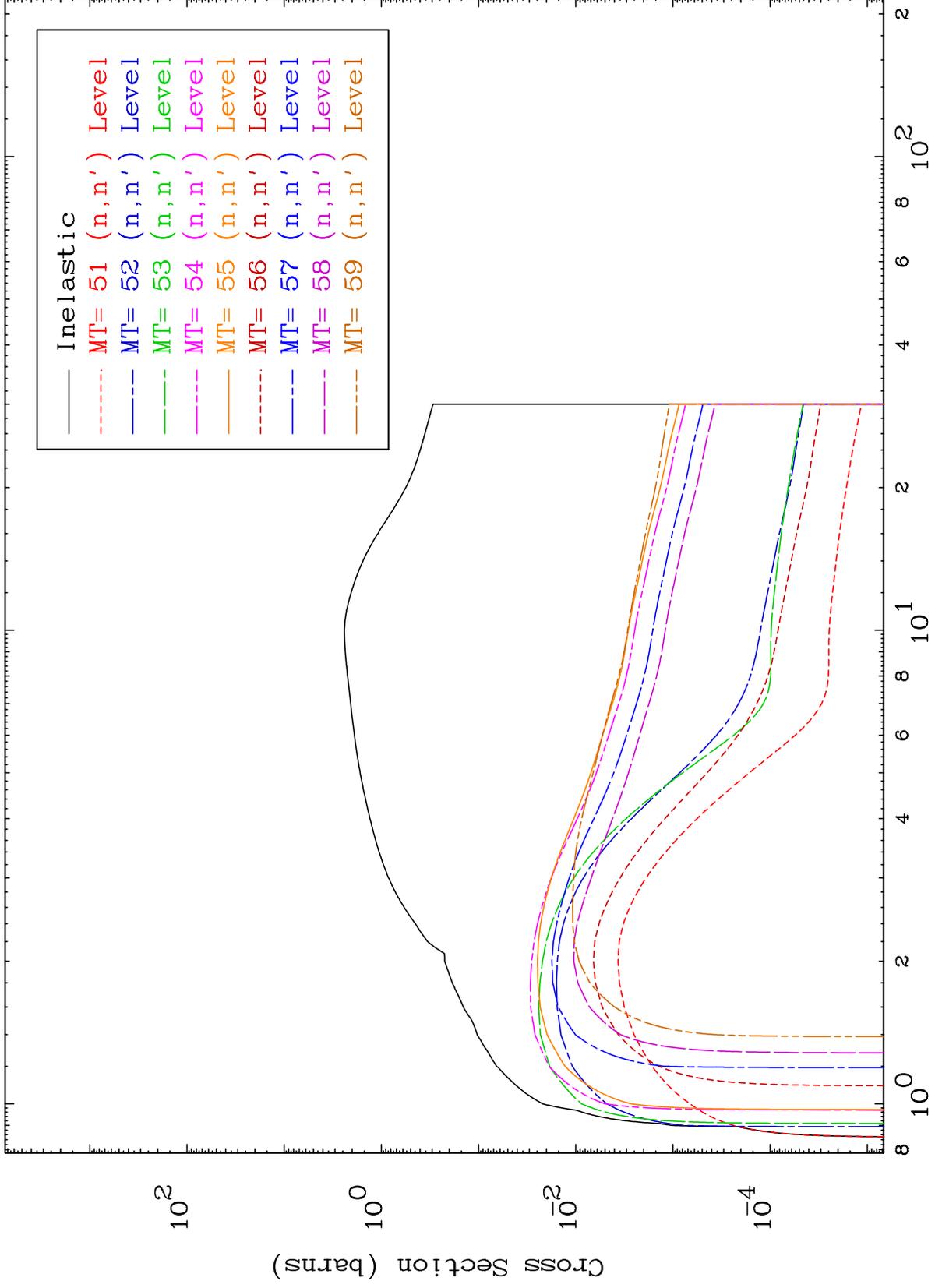


MAT 8301

(n,n') Level

83-Bi-201

293 Kelvin Cross Sections

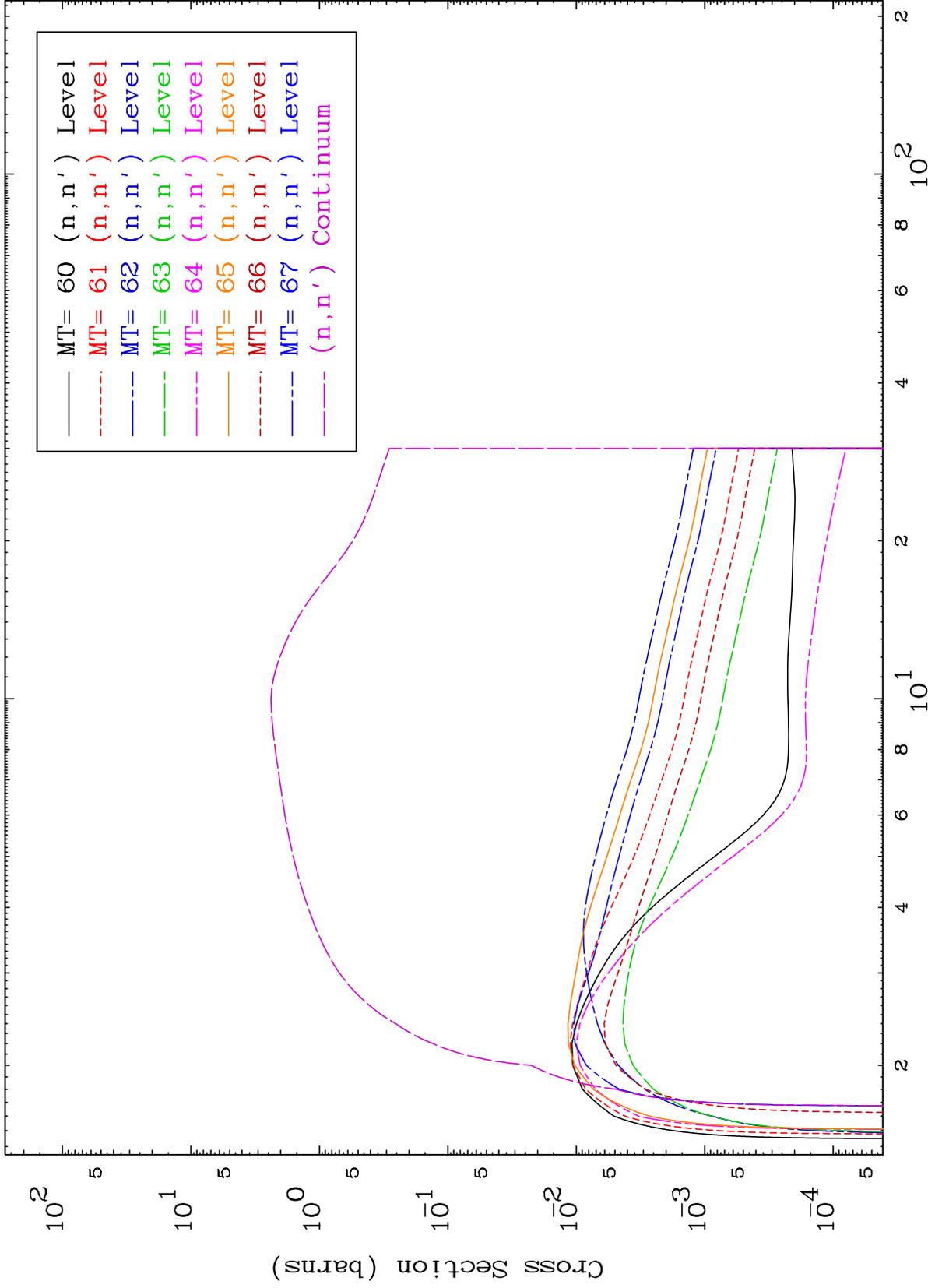


7

Incident Energy (MeV)

83-Bi-201

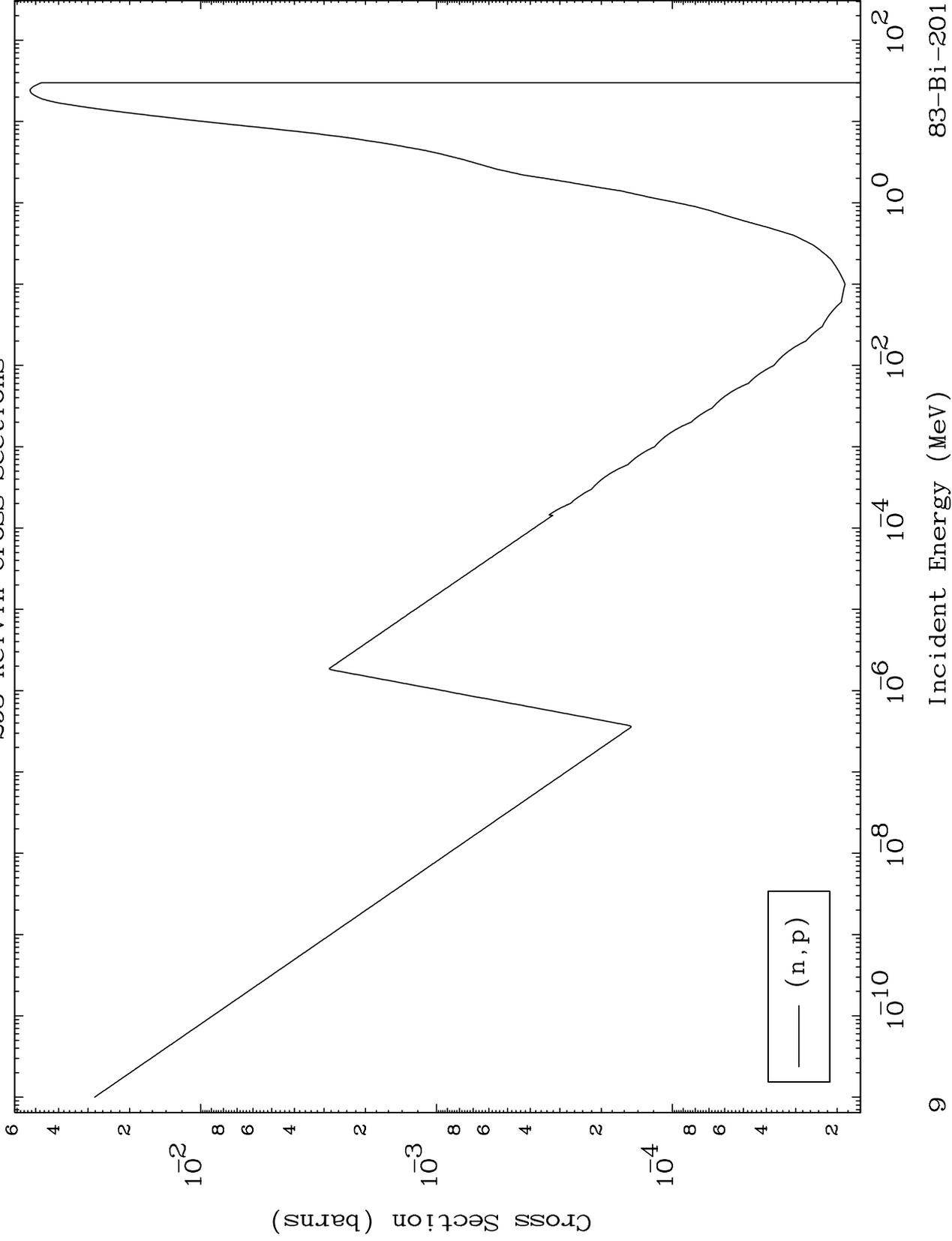
293 Kelvin Cross Sections



MAT 8301

(n,p) Levels
293 Kelvin Cross Sections

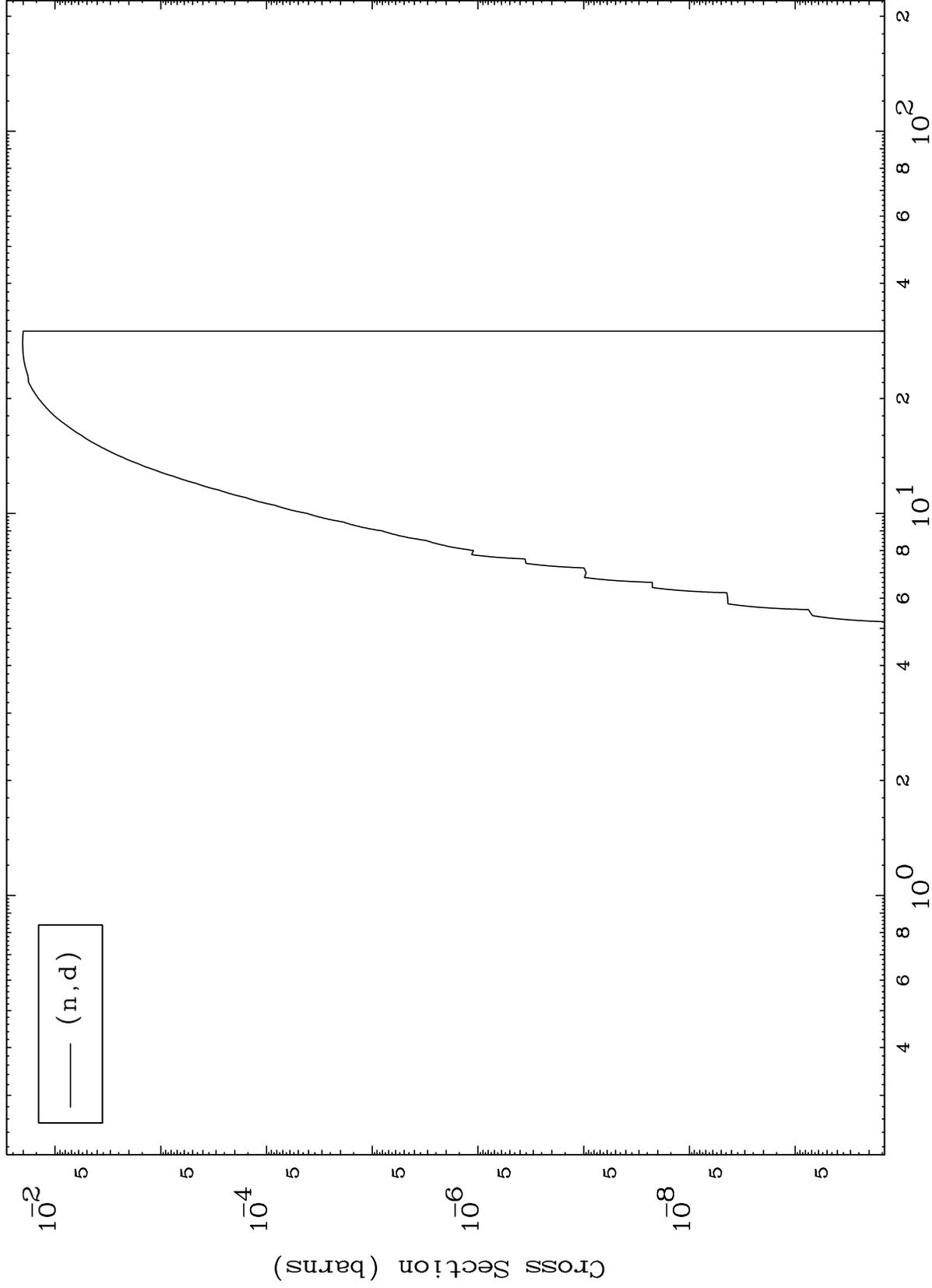
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MAT 8301

(n,d) Levels
293 Kelvin Cross Sections

83-Bi-201



10

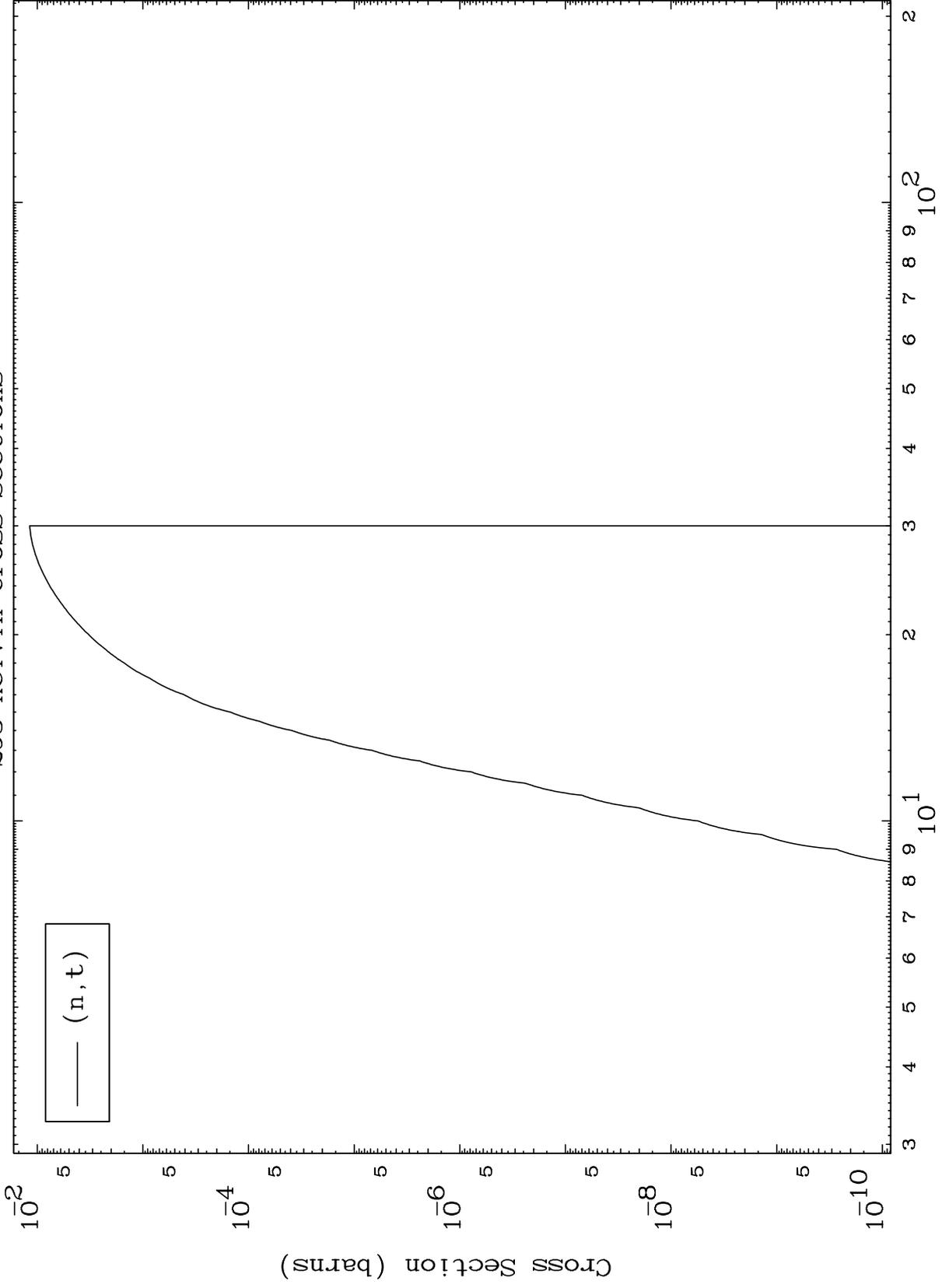
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83-Bi-201

MAT 8301

(n,t) Levels
293 Kelvin Cross Sections

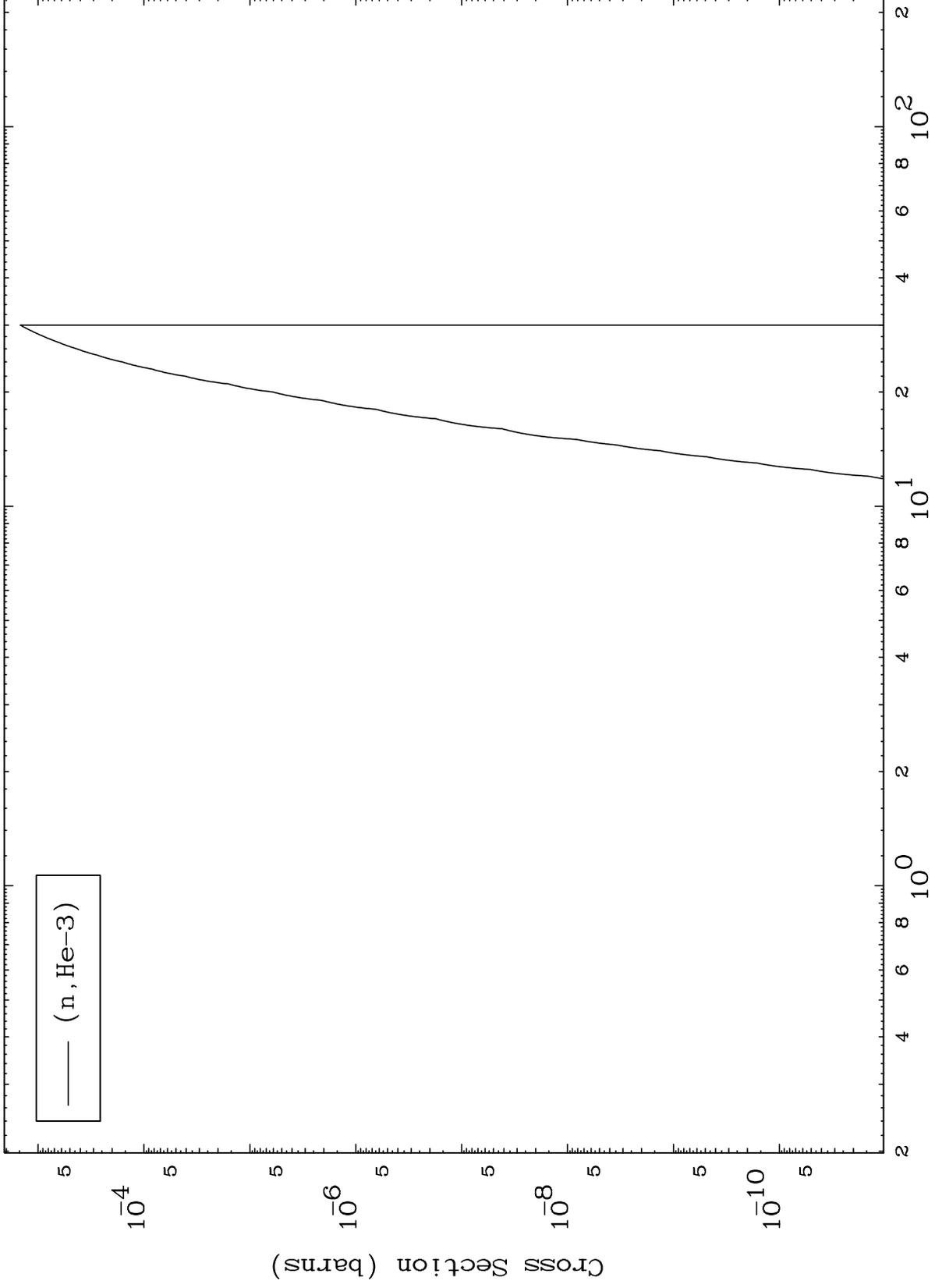
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MAT 8301

(n,He3) Levels
293 Kelvin Cross Sections

83-Bi-201



12

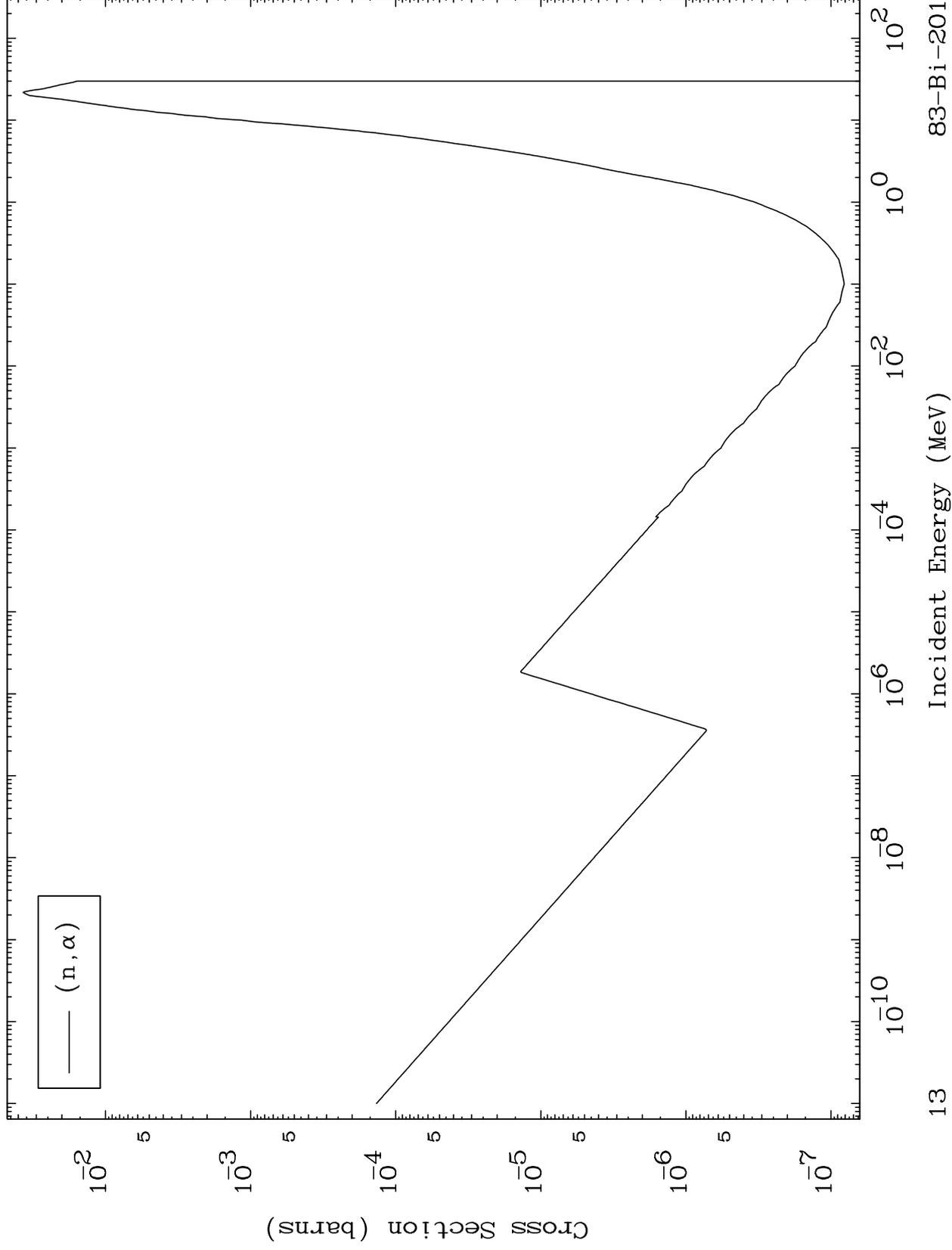
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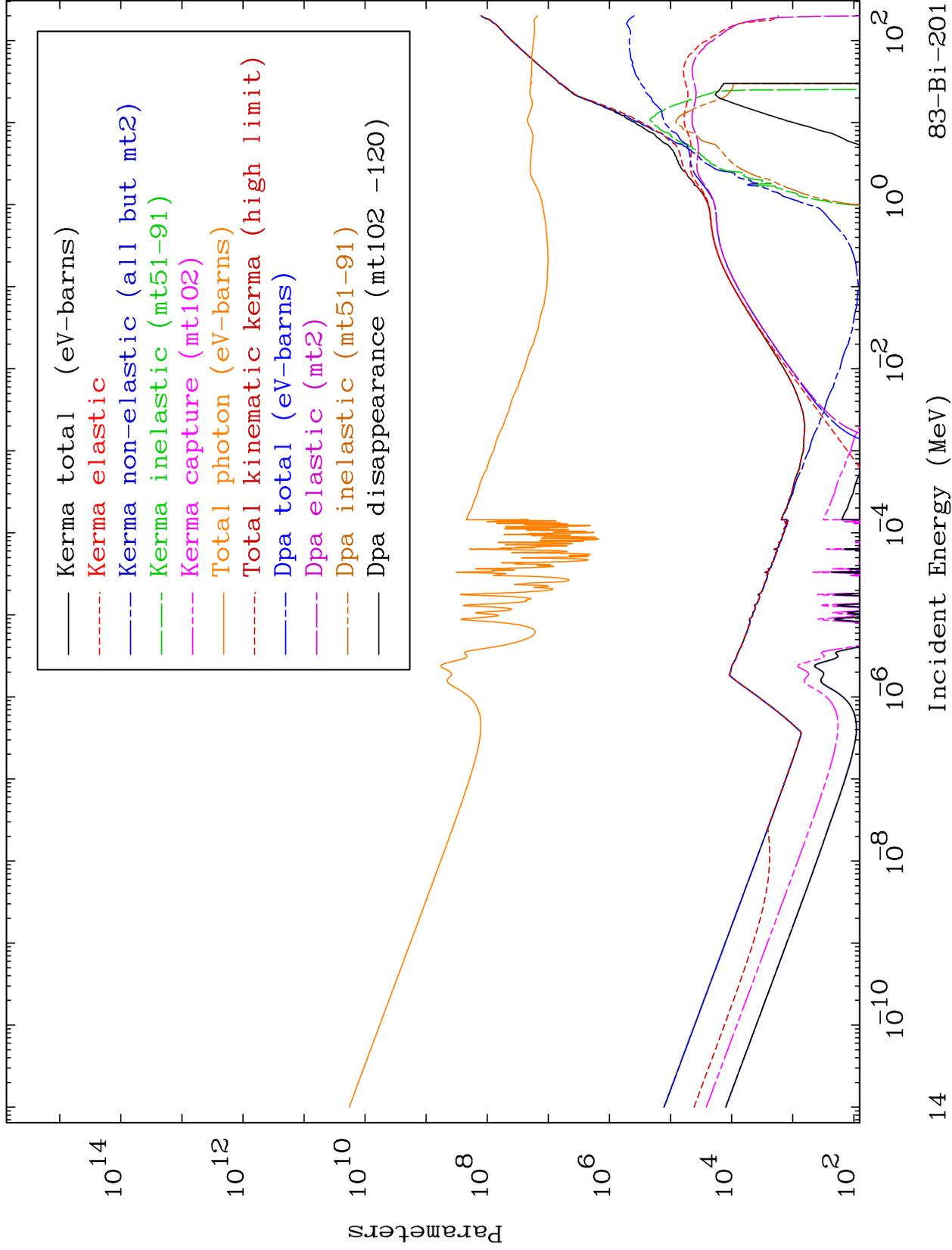
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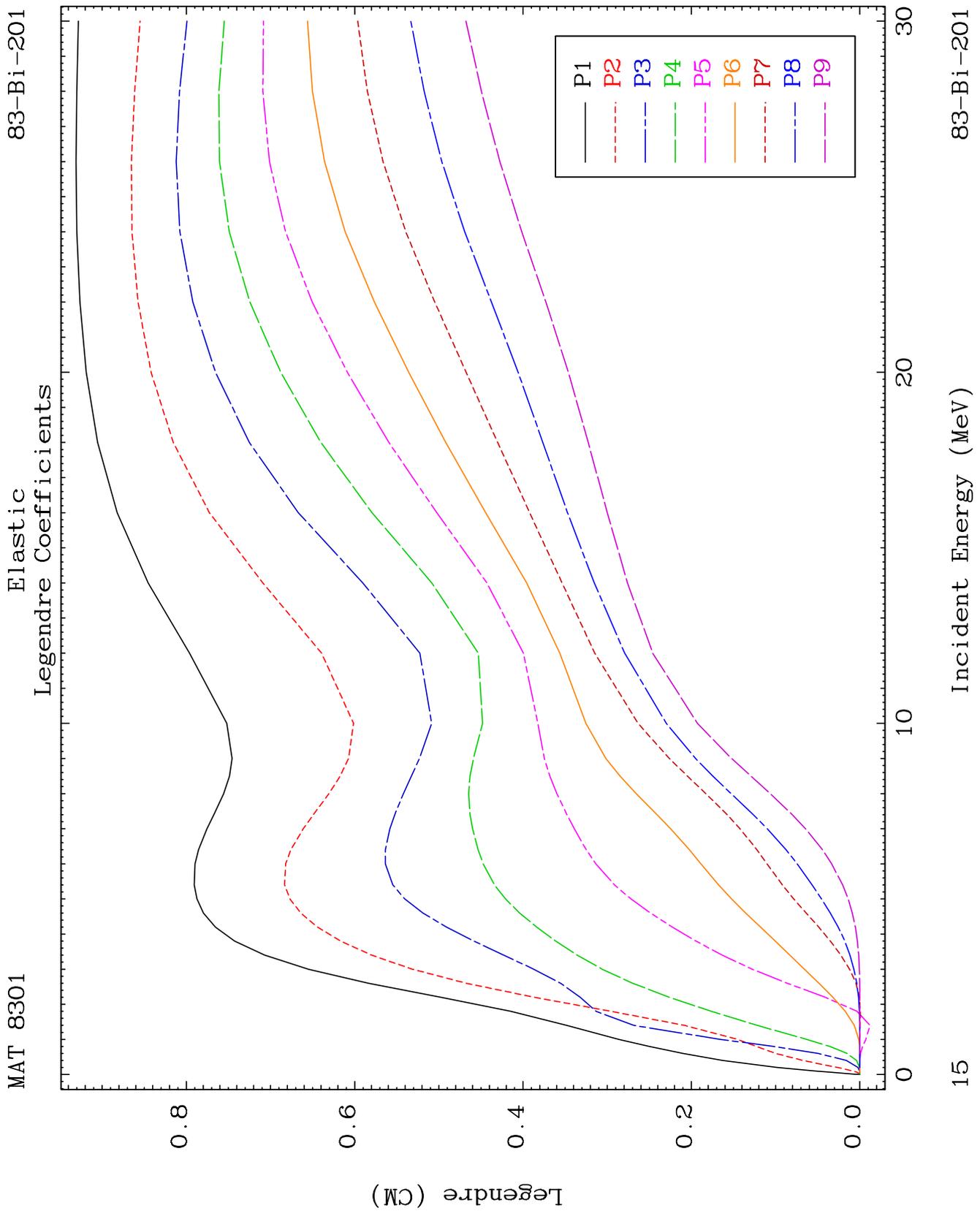
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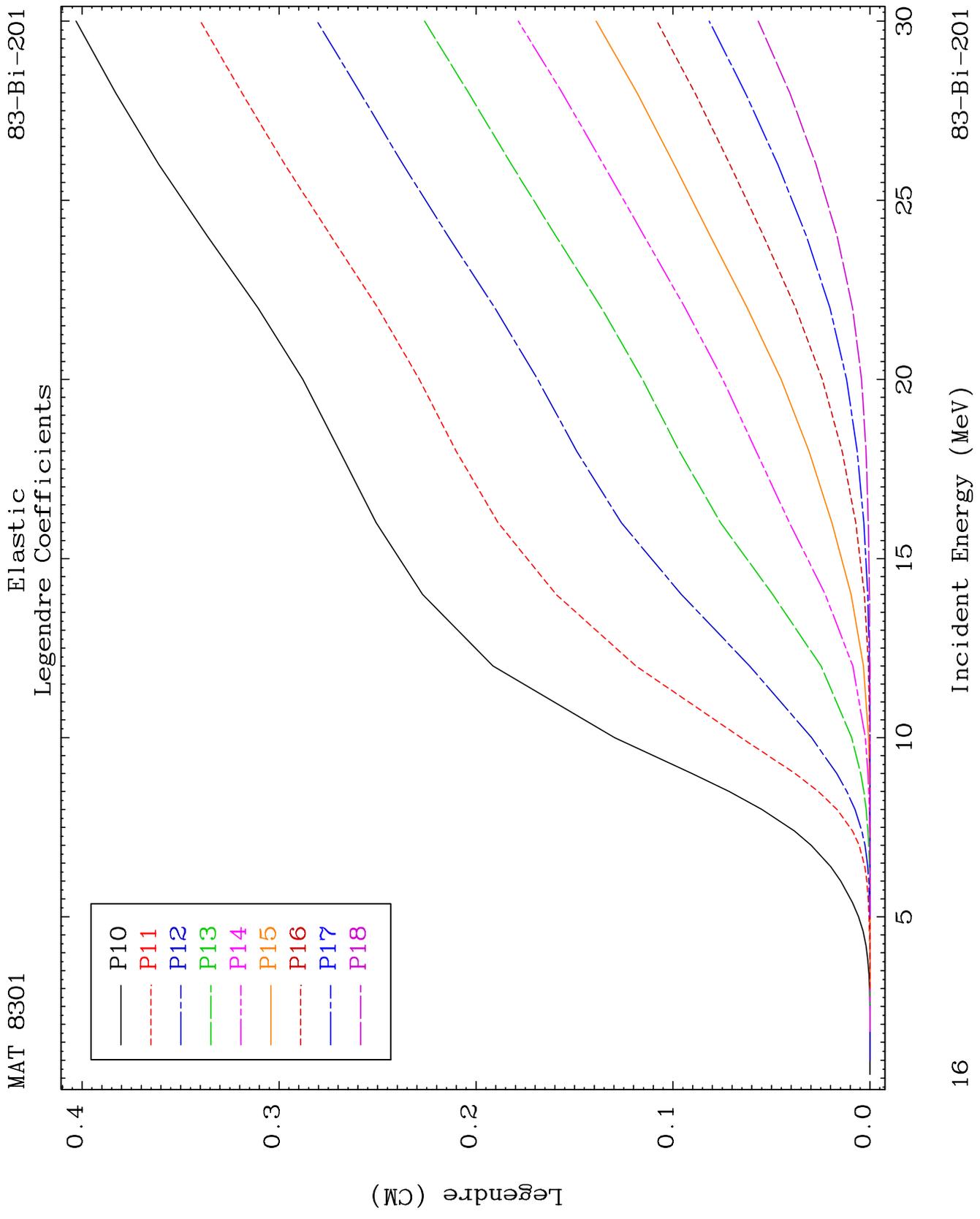
(n, α) Levels
293 Kelvin Cross Sections

83-Bi-201





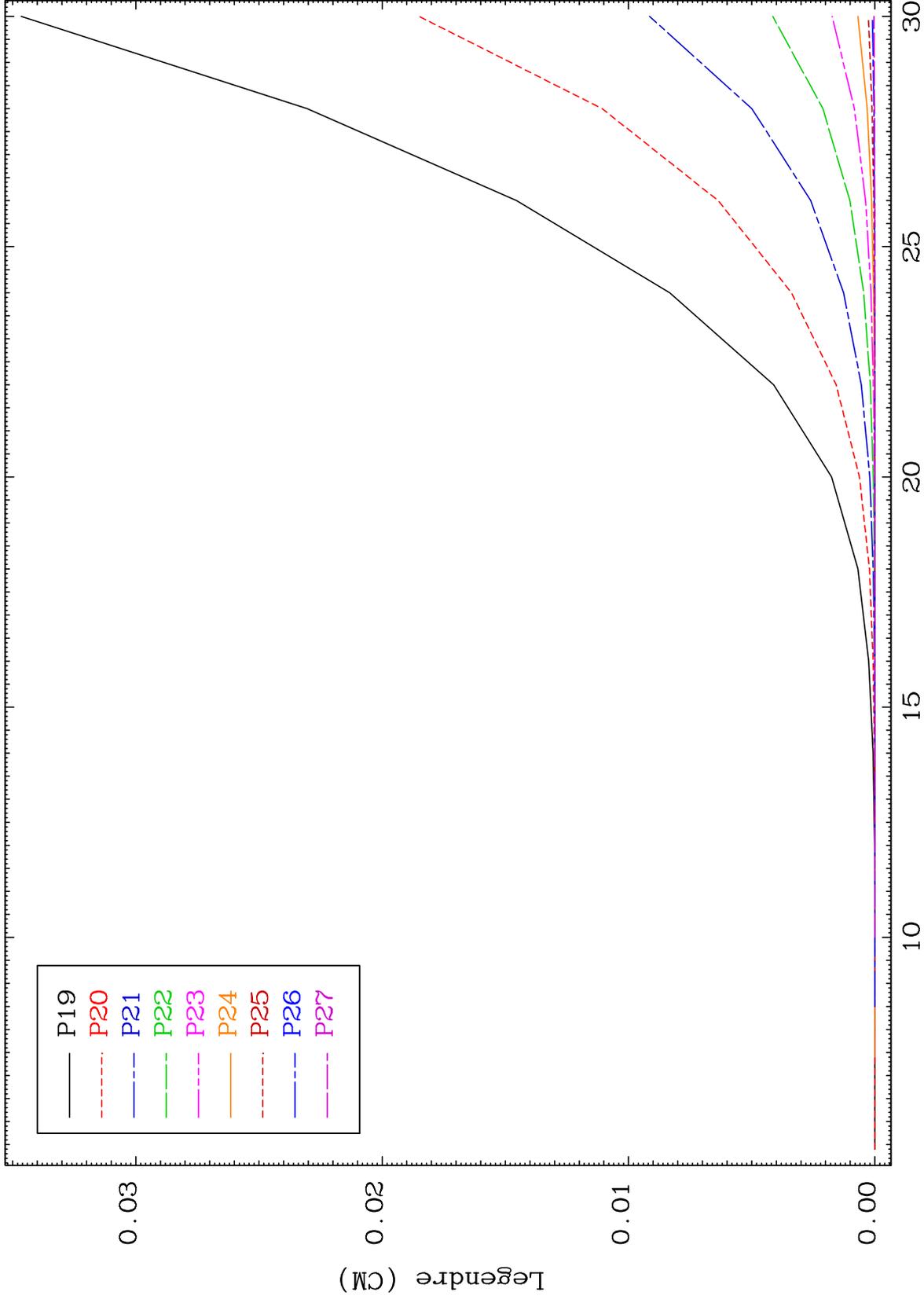




MAT 8301

Elastic
Legendre Coefficients

83-Bi-201



17

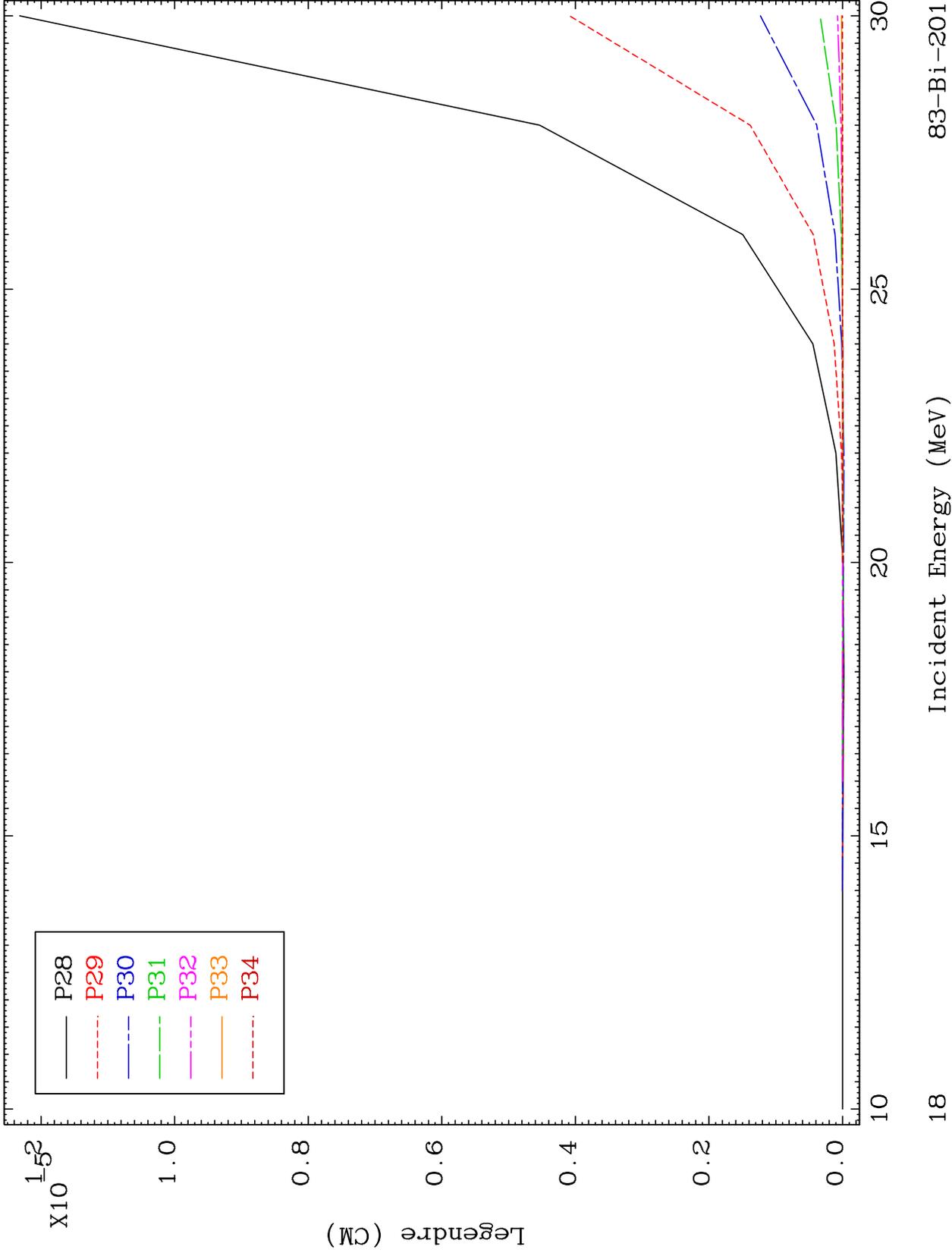
Incident Energy (MeV)

83-Bi-201

MAT 8301

Elastic
Legendre Coefficients

83-Bi-201



83-Bi-201

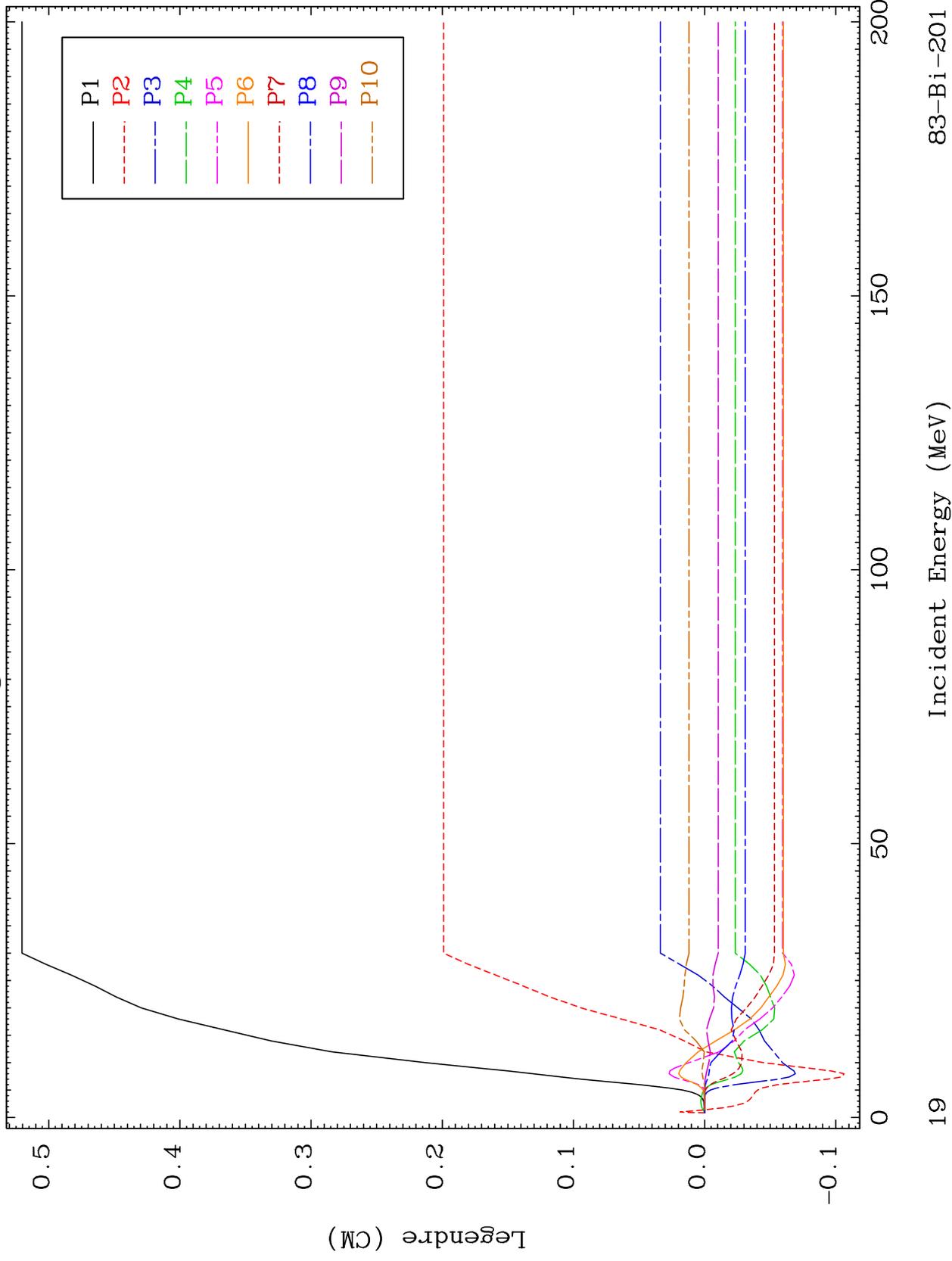
Incident Energy (MeV)

18

MAT 8301

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

83-Bi-201



83-Bi-201

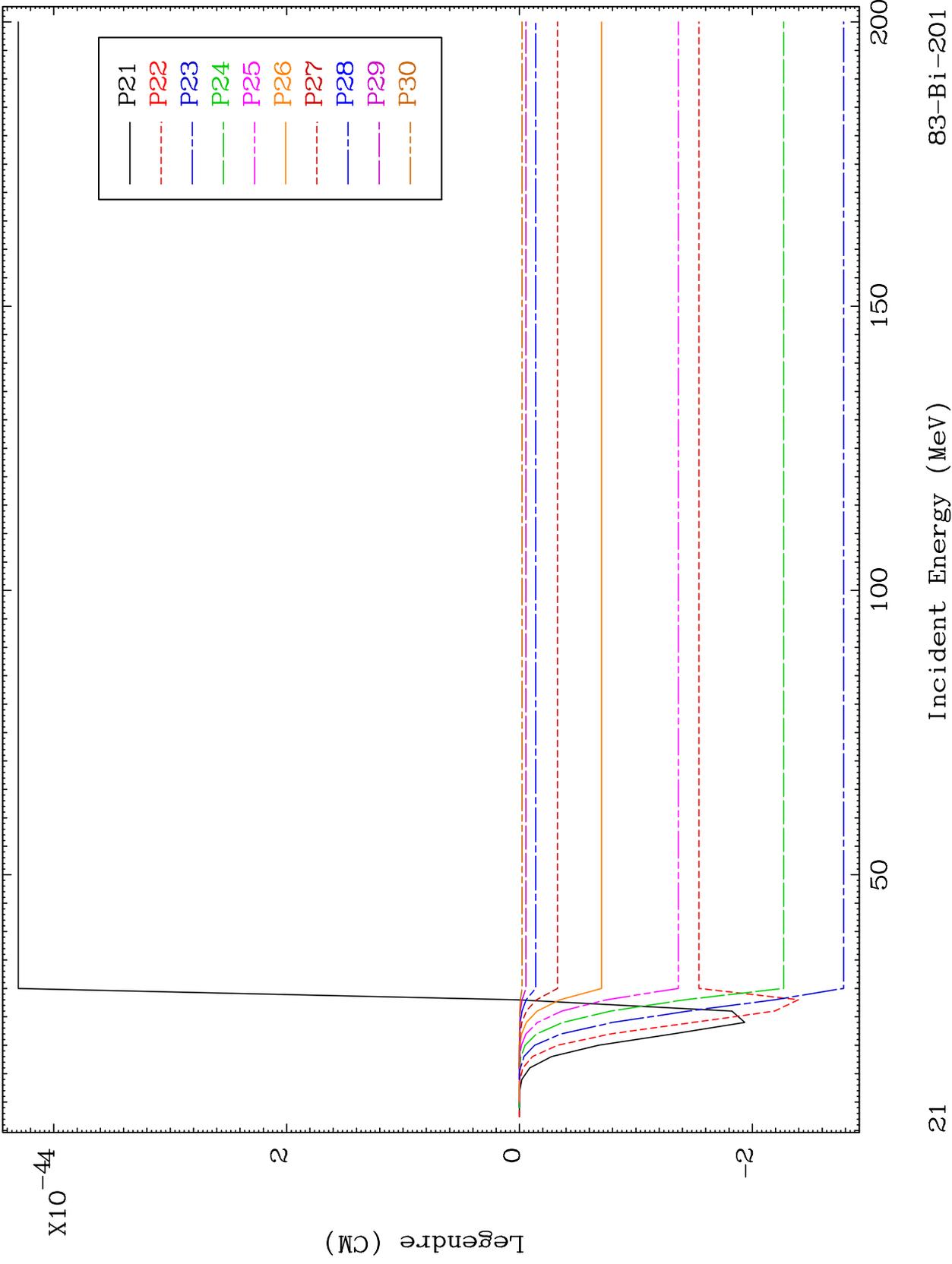
Incident Energy (MeV)

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MAT 8301

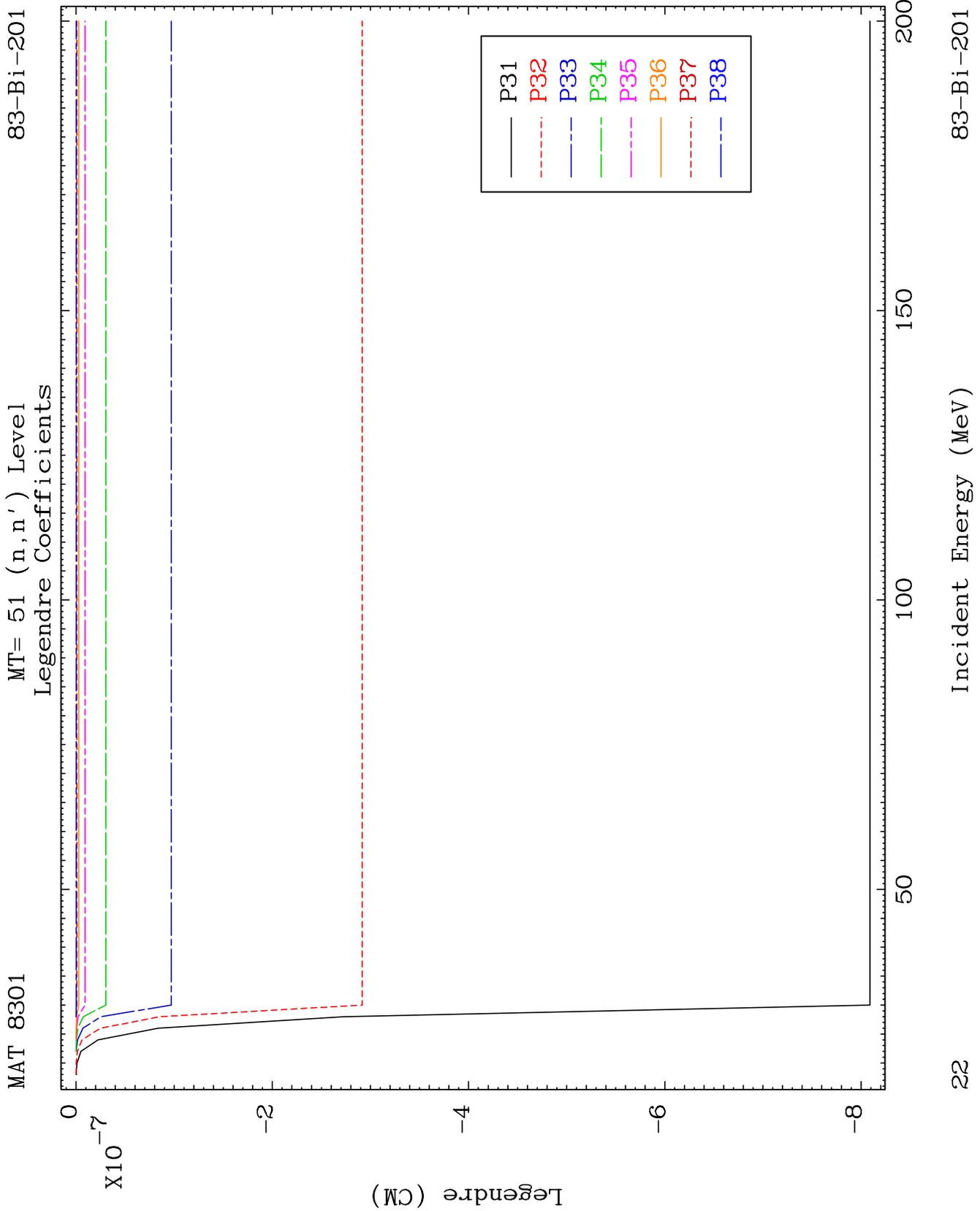
MT= 51 (n,n') Level
Legendre Coefficients

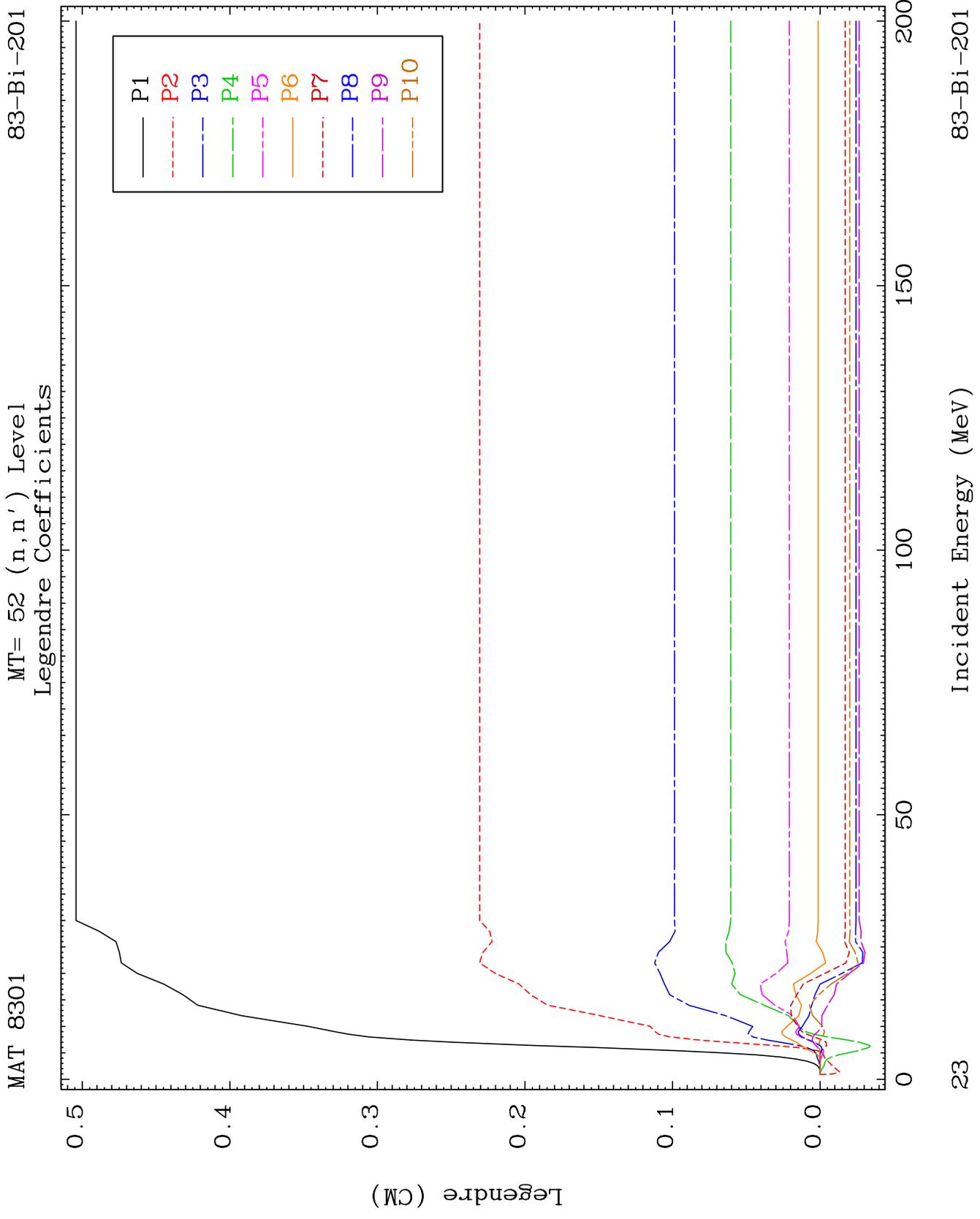
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21

83-Bi-201

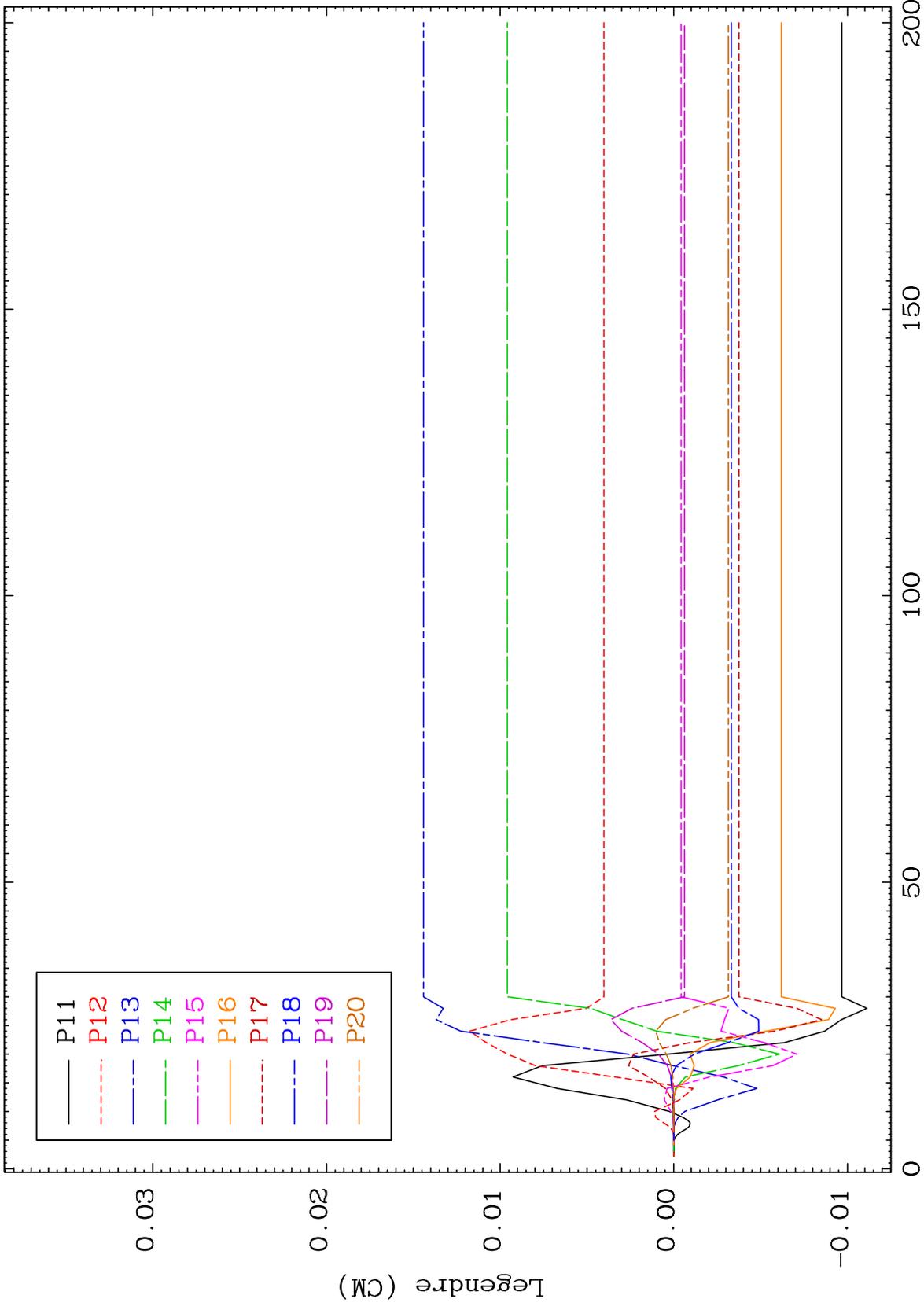




MAT 8301

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

83-Bi-201



24

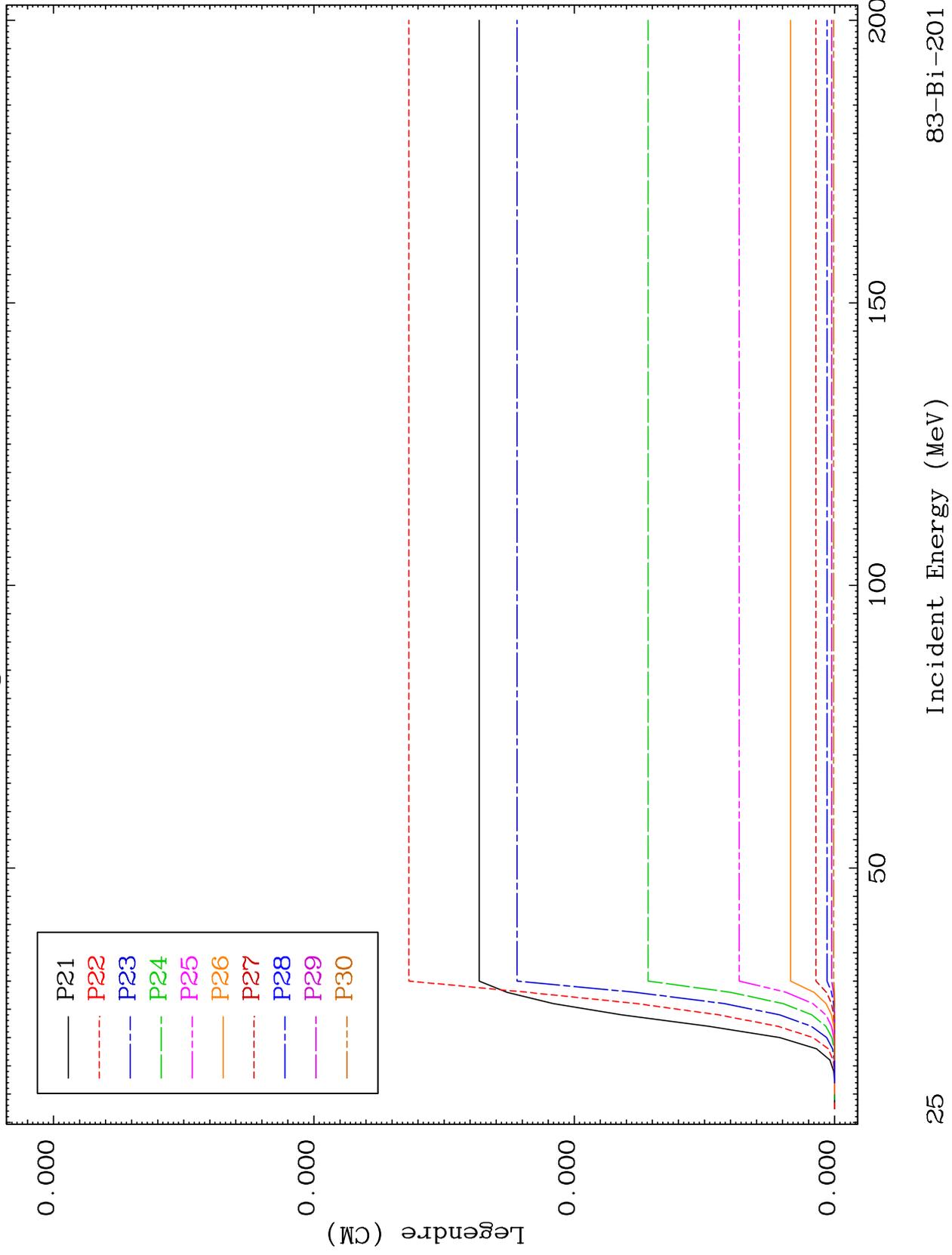
Incident Energy (MeV)

83-Bi-201

MAT 8301

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

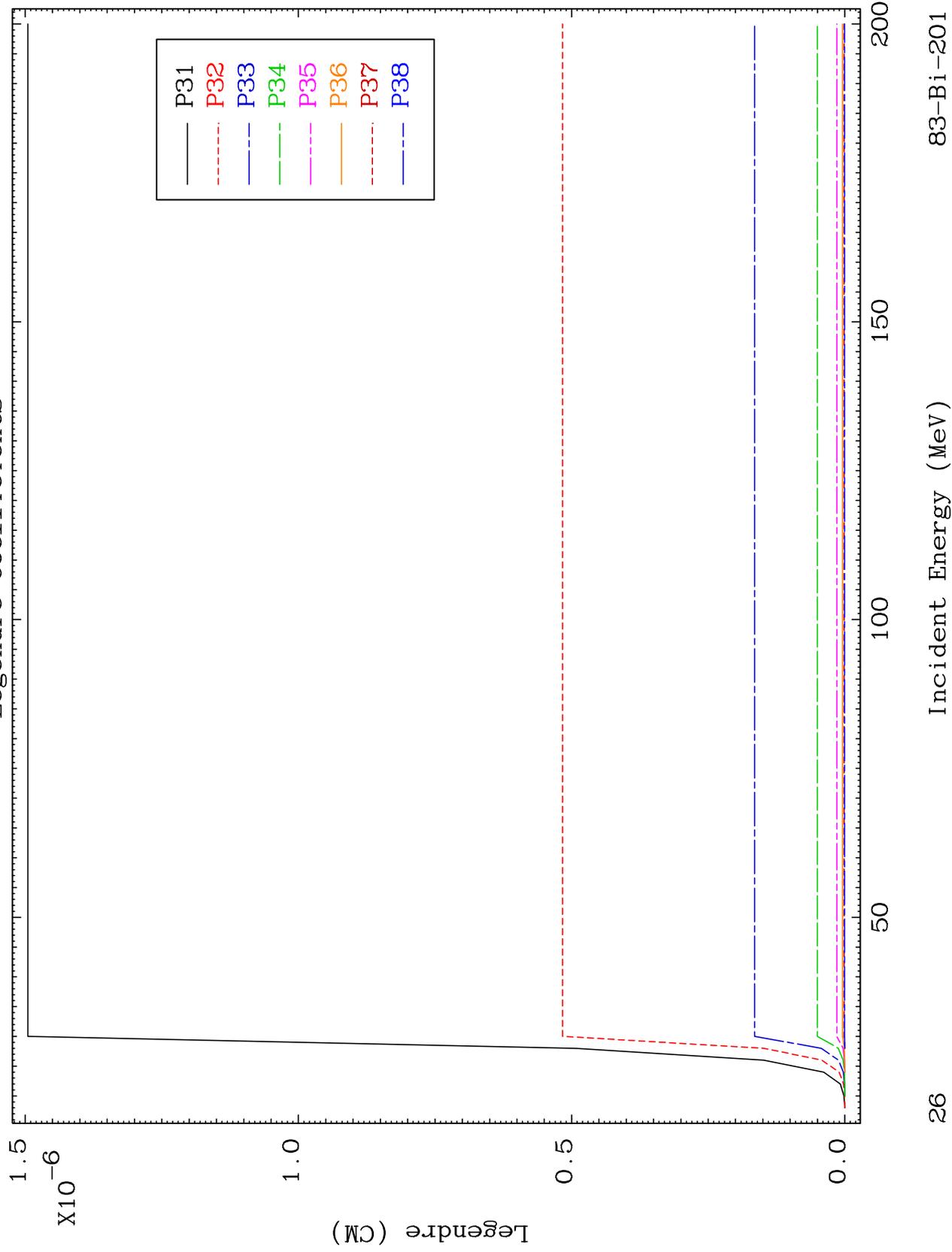
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25

Incident Energy (MeV)

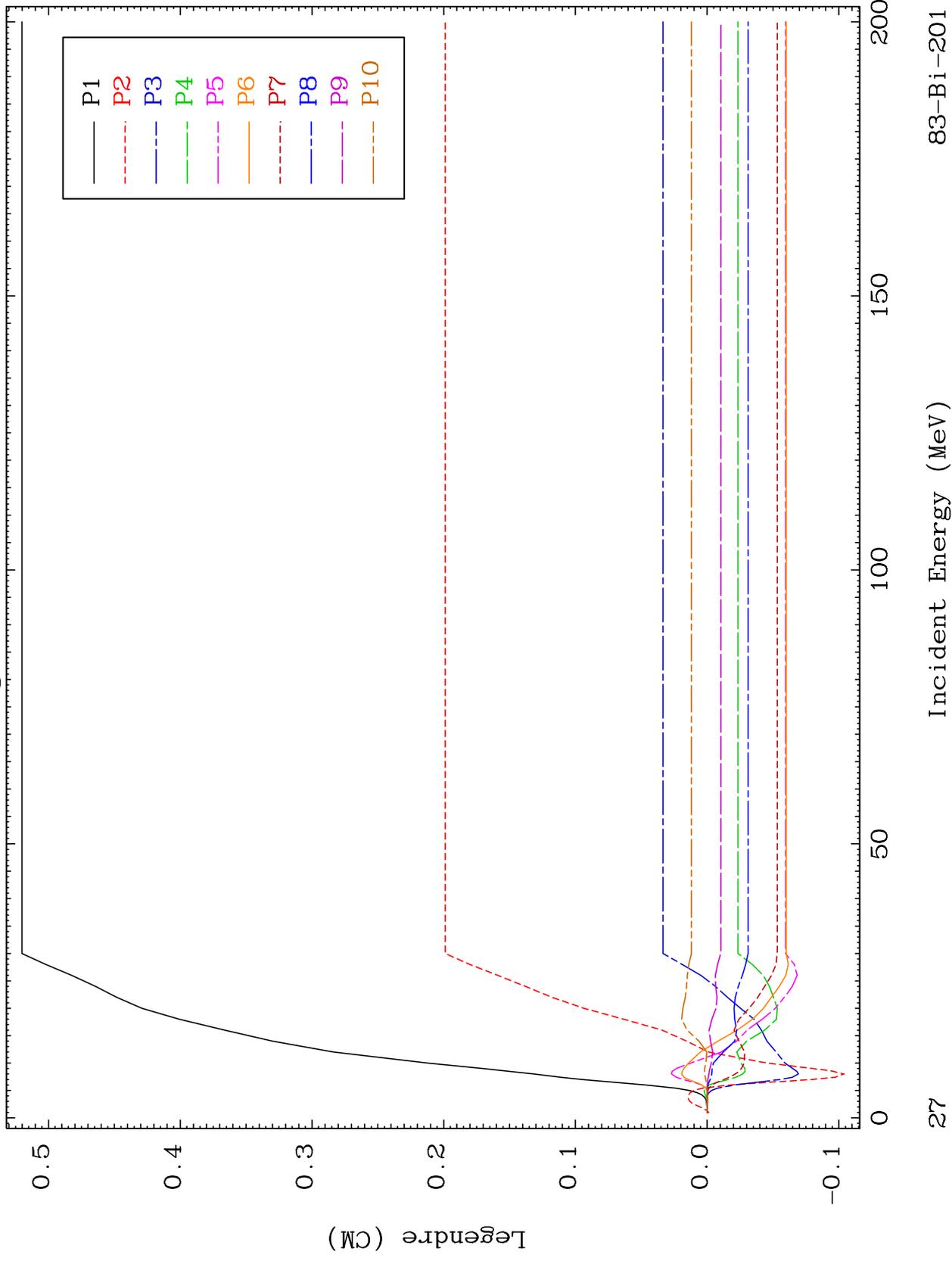
83-Bi-201



MAT 8301

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

83-Bi-201



83-Bi-201

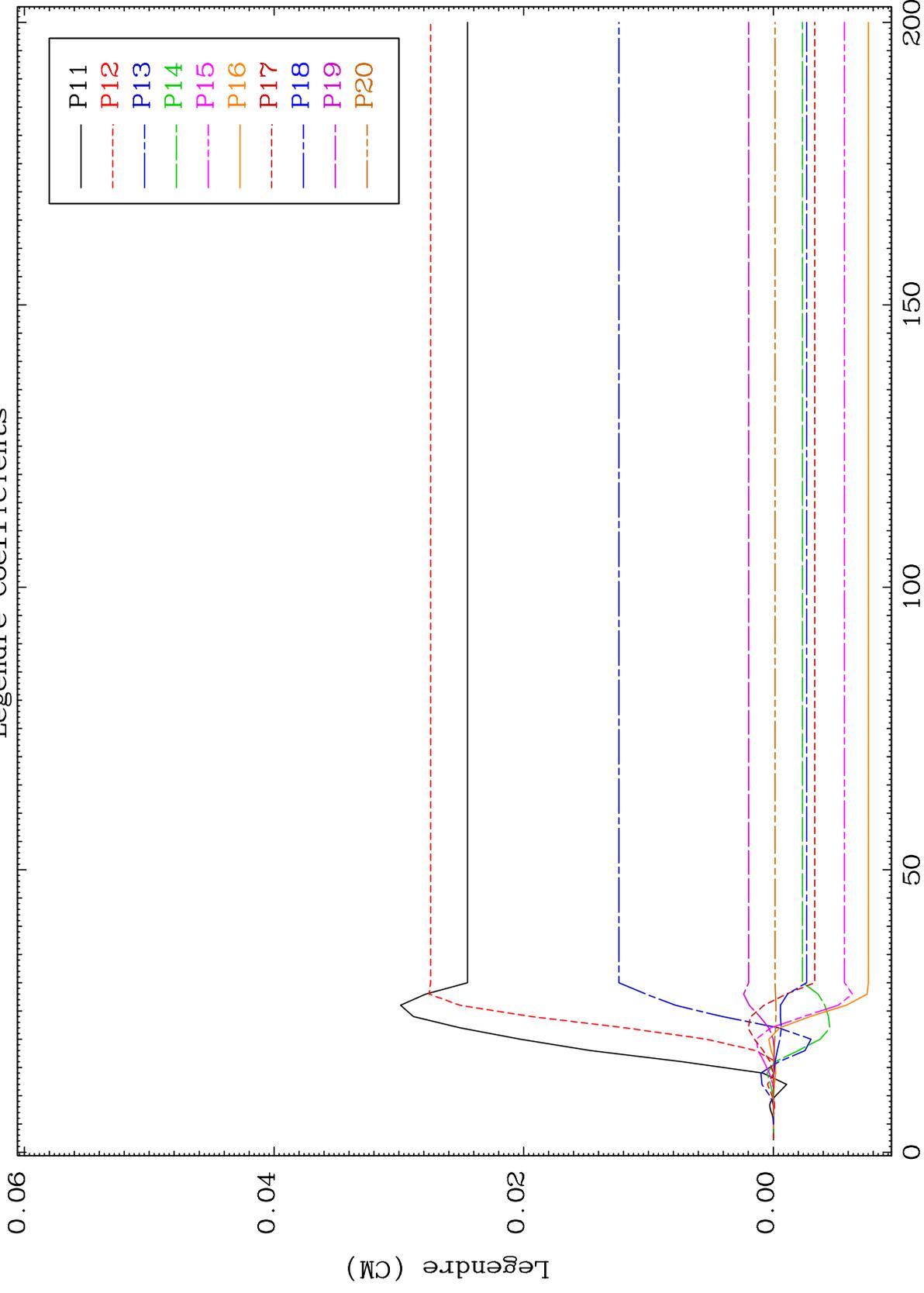
Incident Energy (MeV)

27

MAT 8301

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

83-Bi-201



28

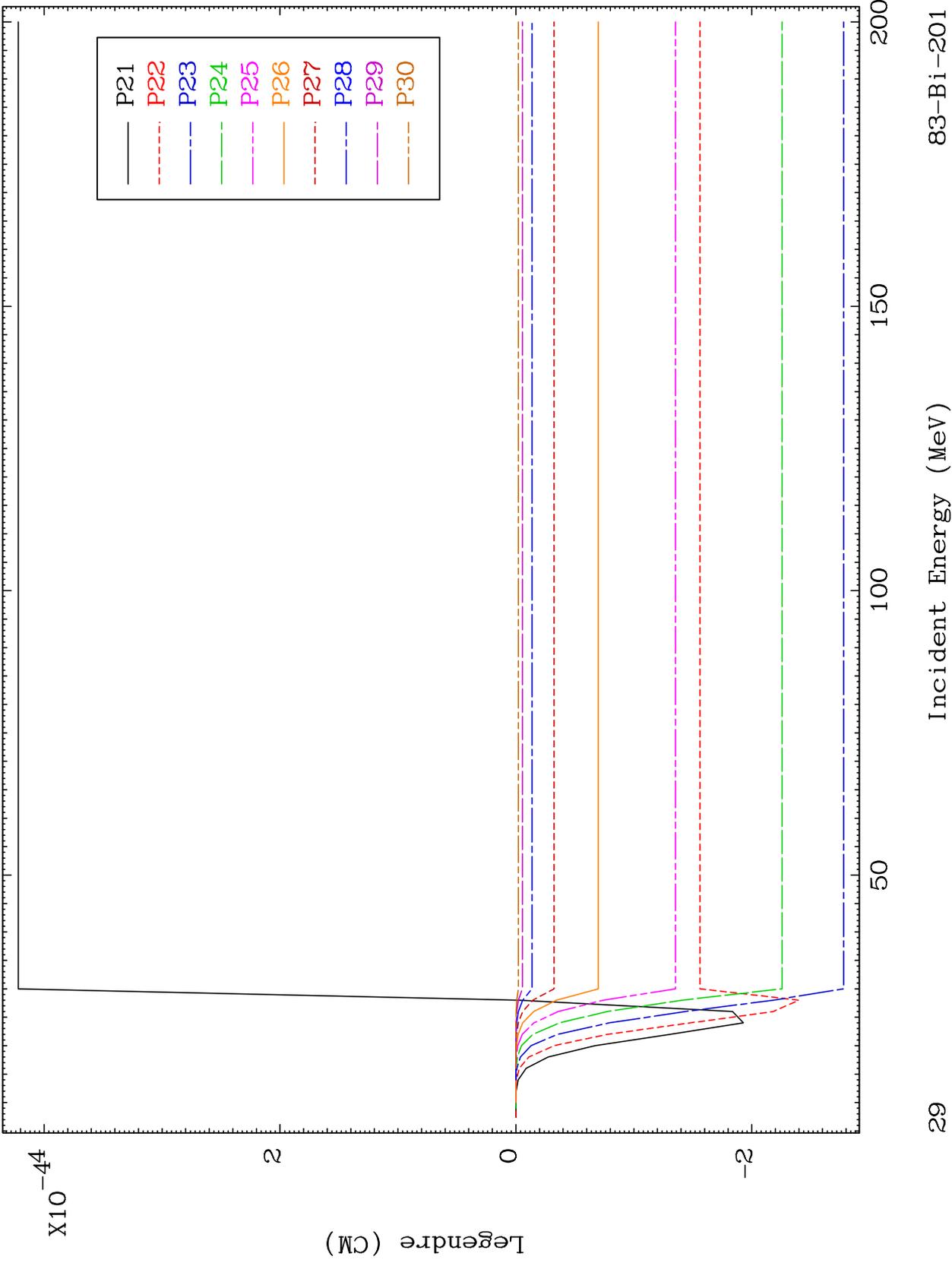
Incident Energy (MeV)

83-Bi-201

MAT 8301

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

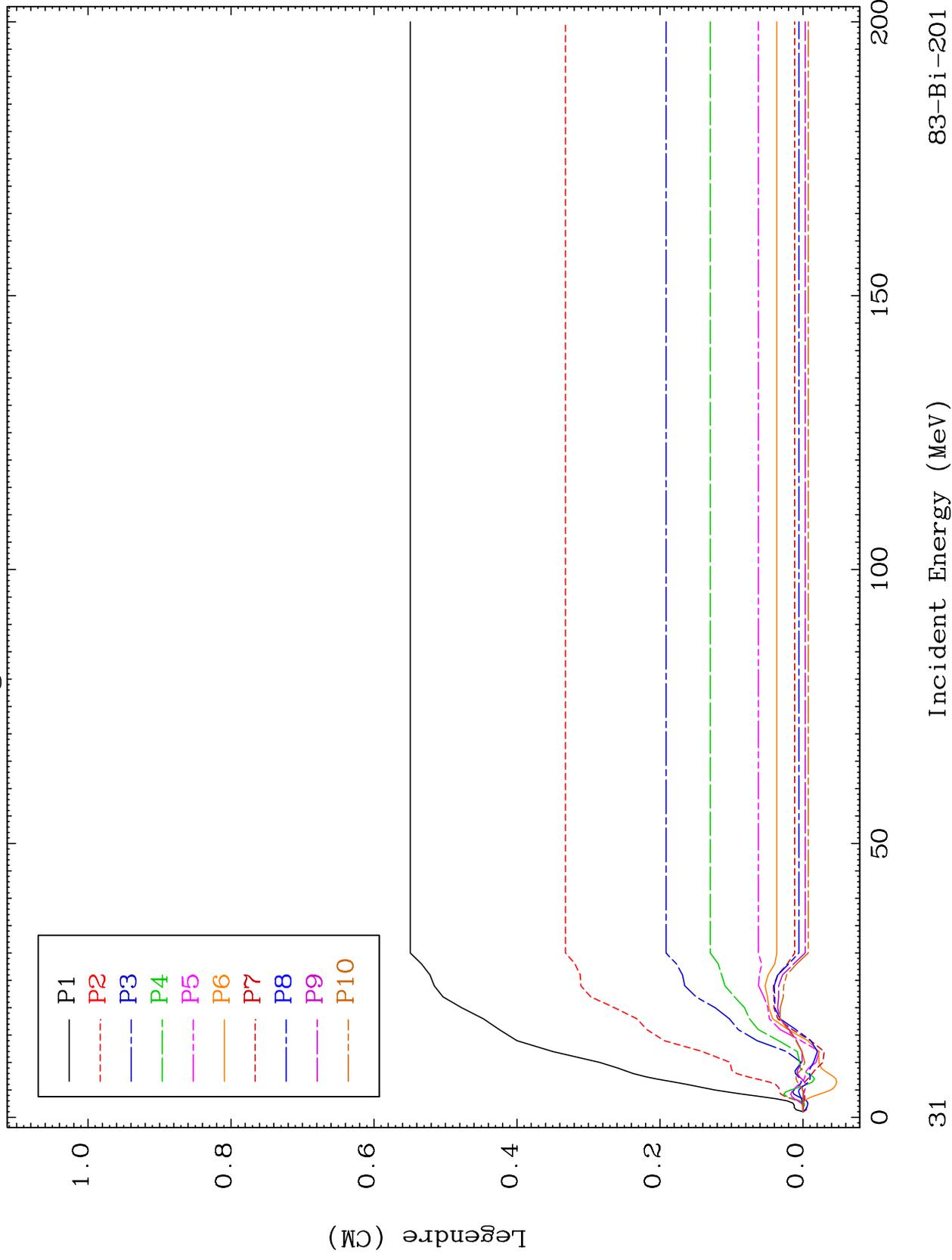
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MAT 8301

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

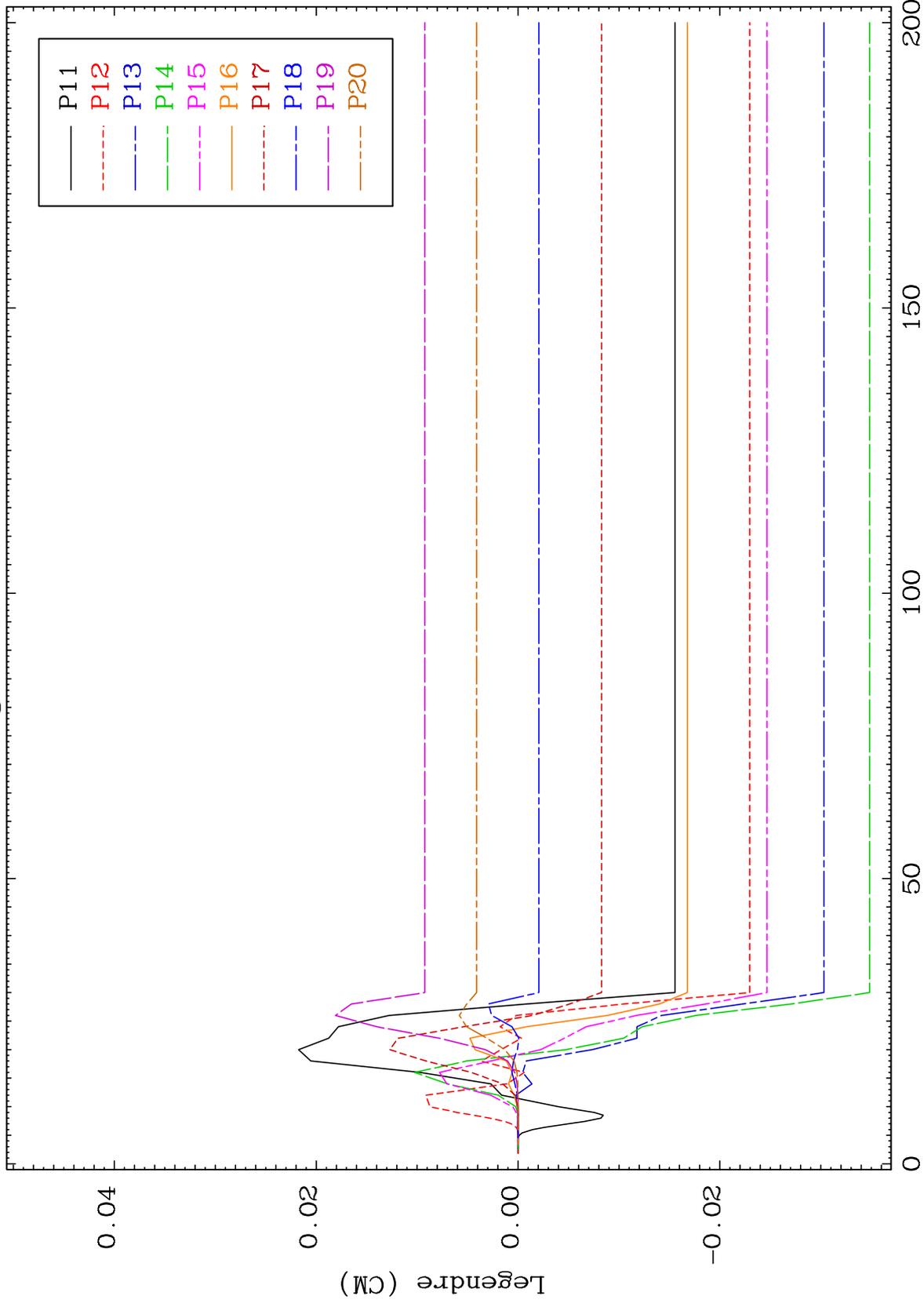
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MAT 8301

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

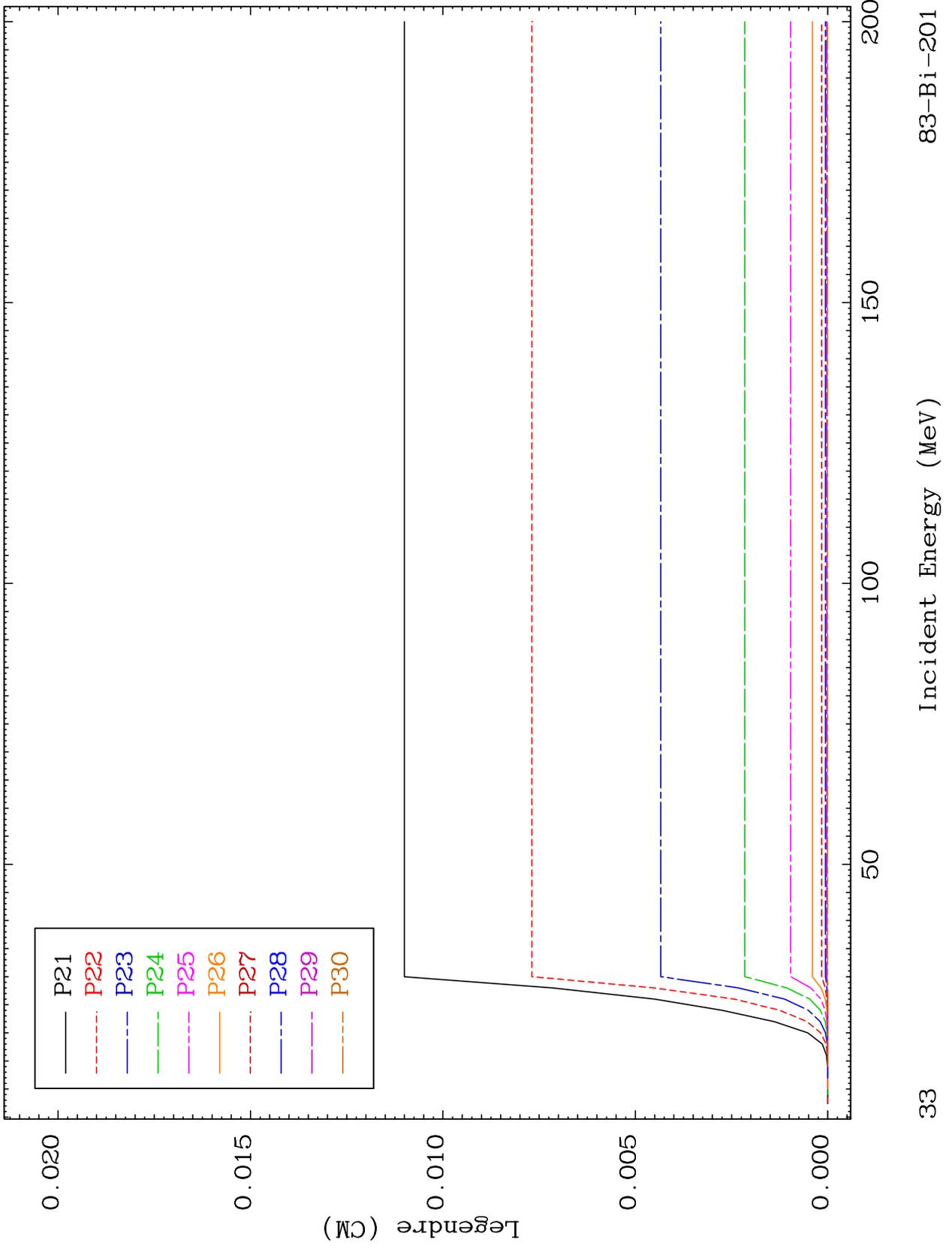
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32

Incident Energy (MeV)

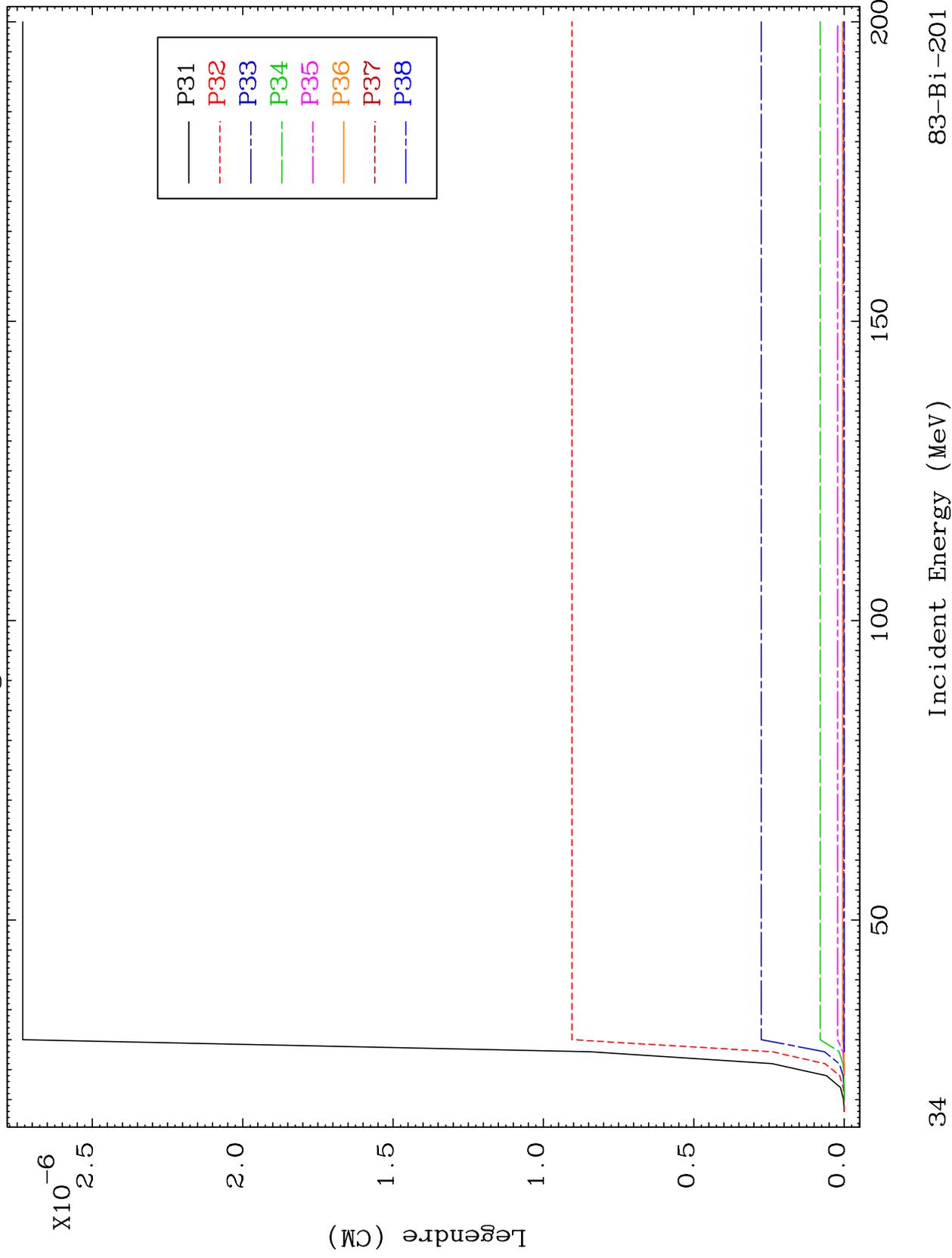
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MAT 8301

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

83-Bi-201

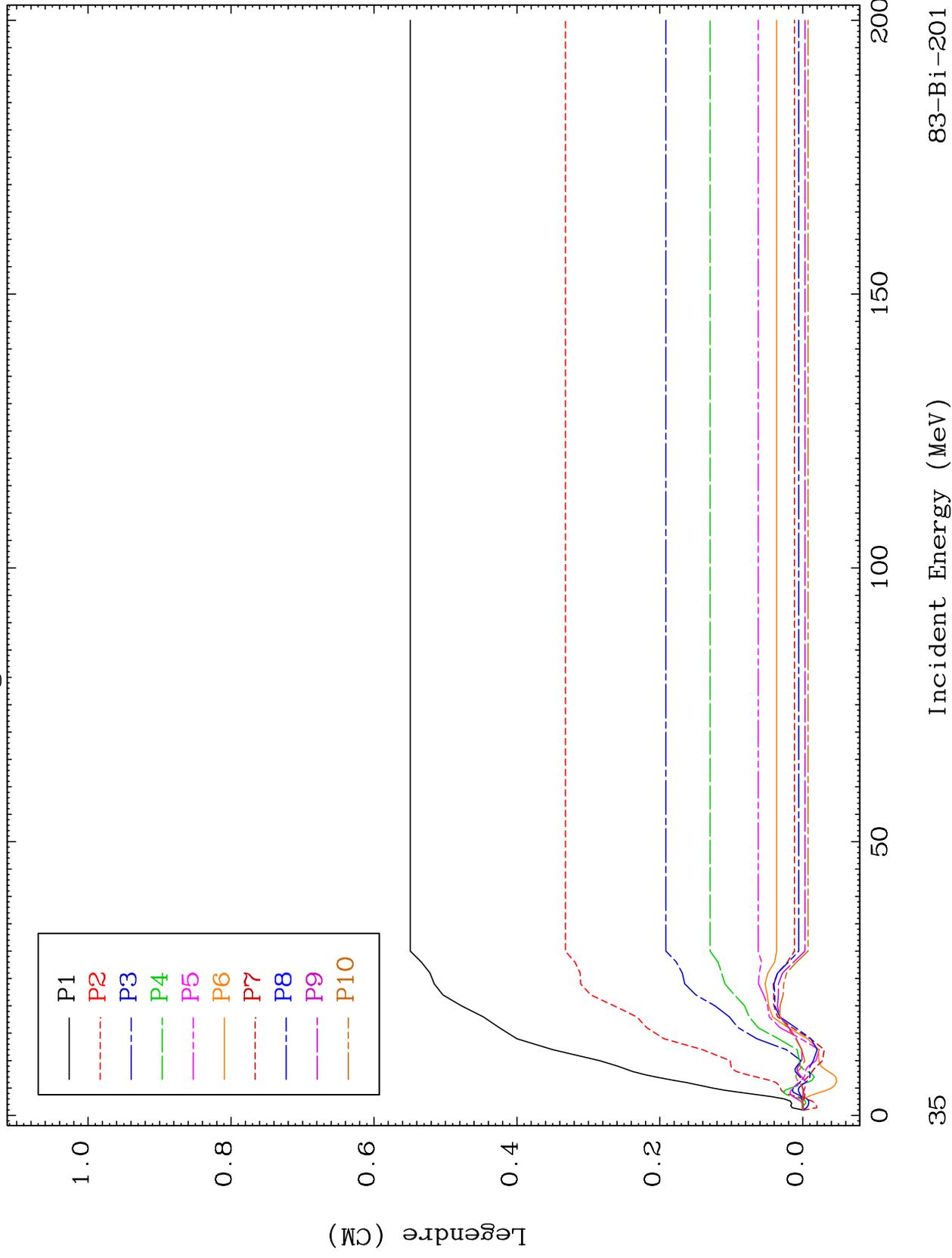


34

MAT 8301

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

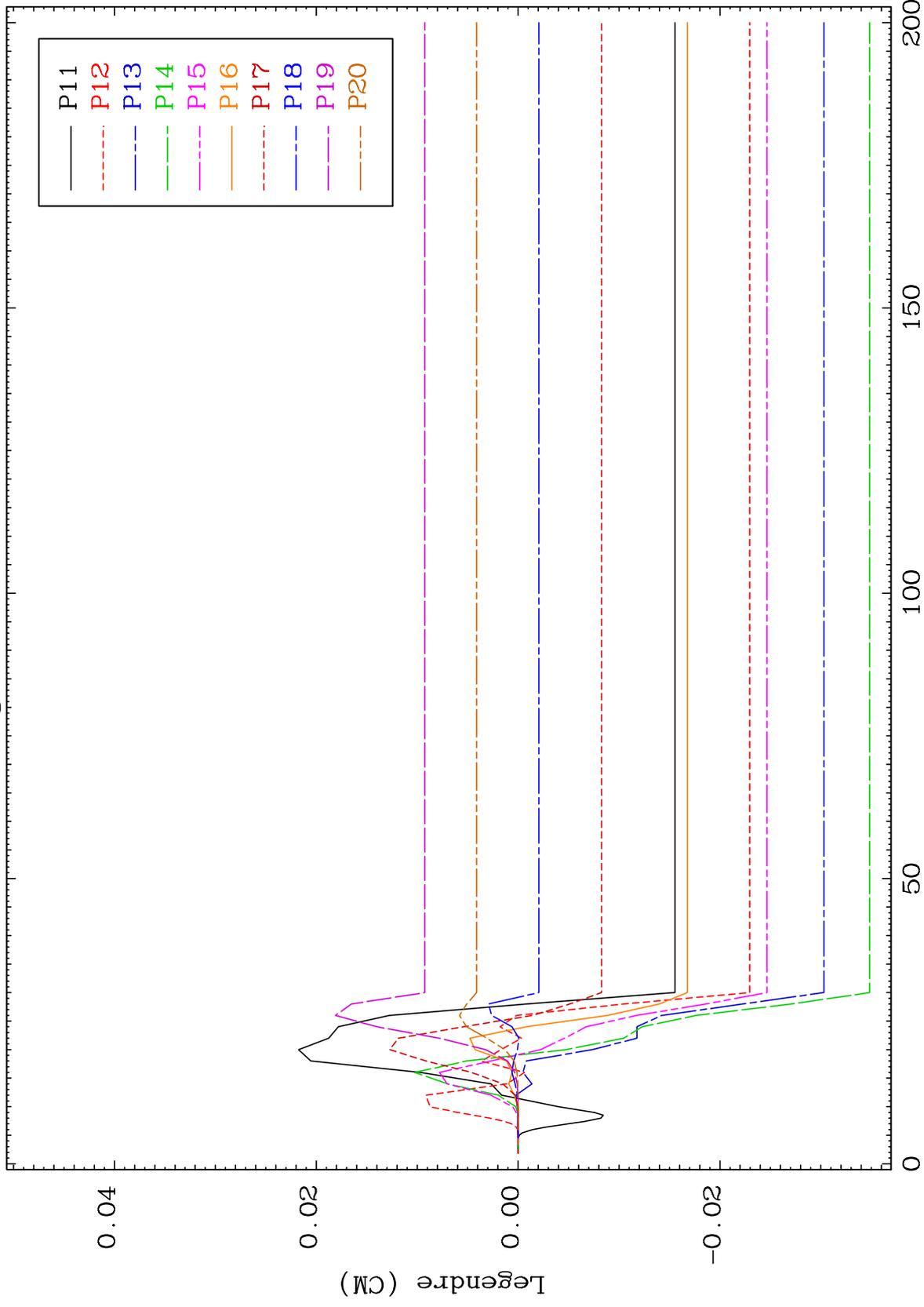
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MAT 8301

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

83-Bi-201



36

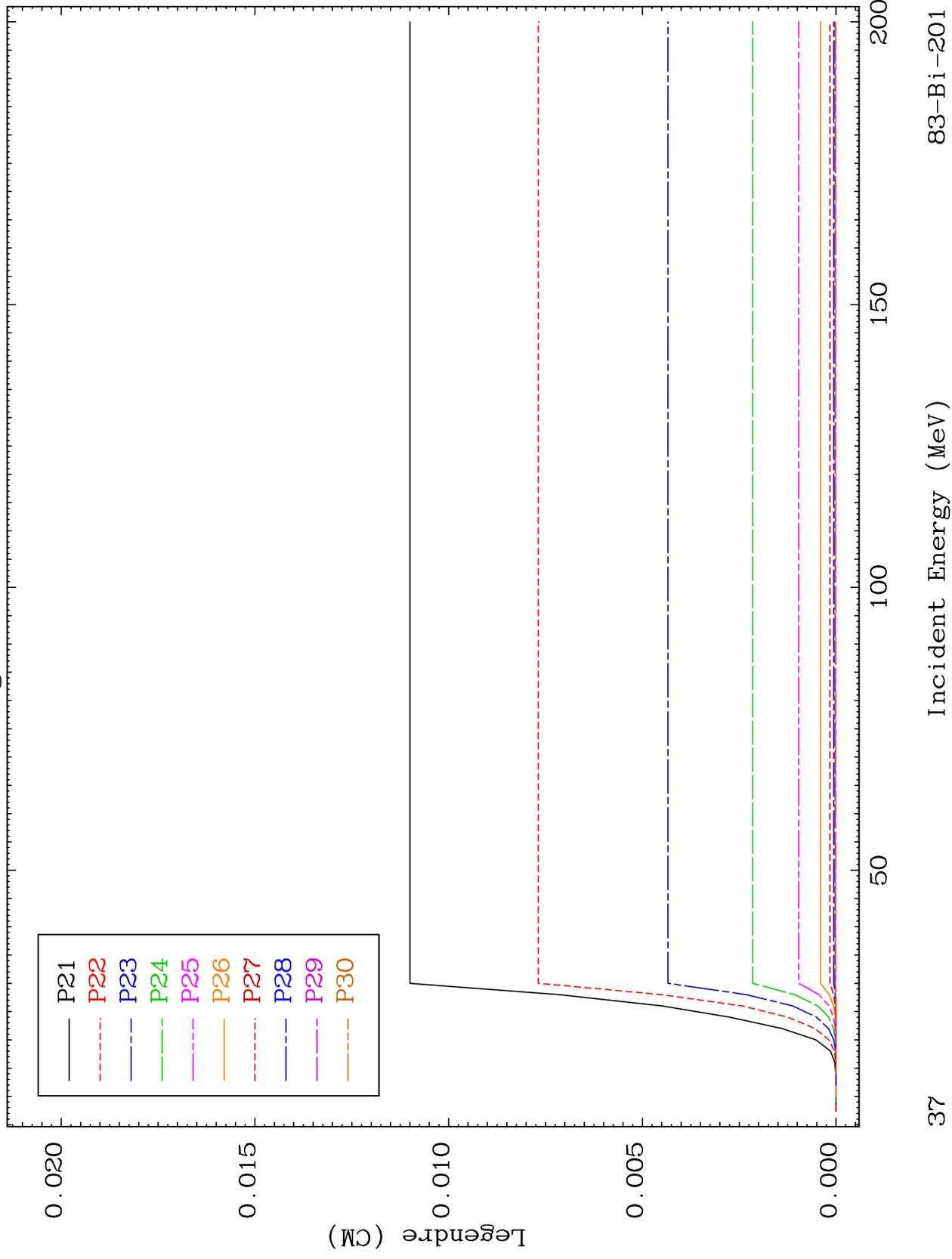
Incident Energy (MeV)

83-Bi-201

MAT 8301

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

83-Bi-201



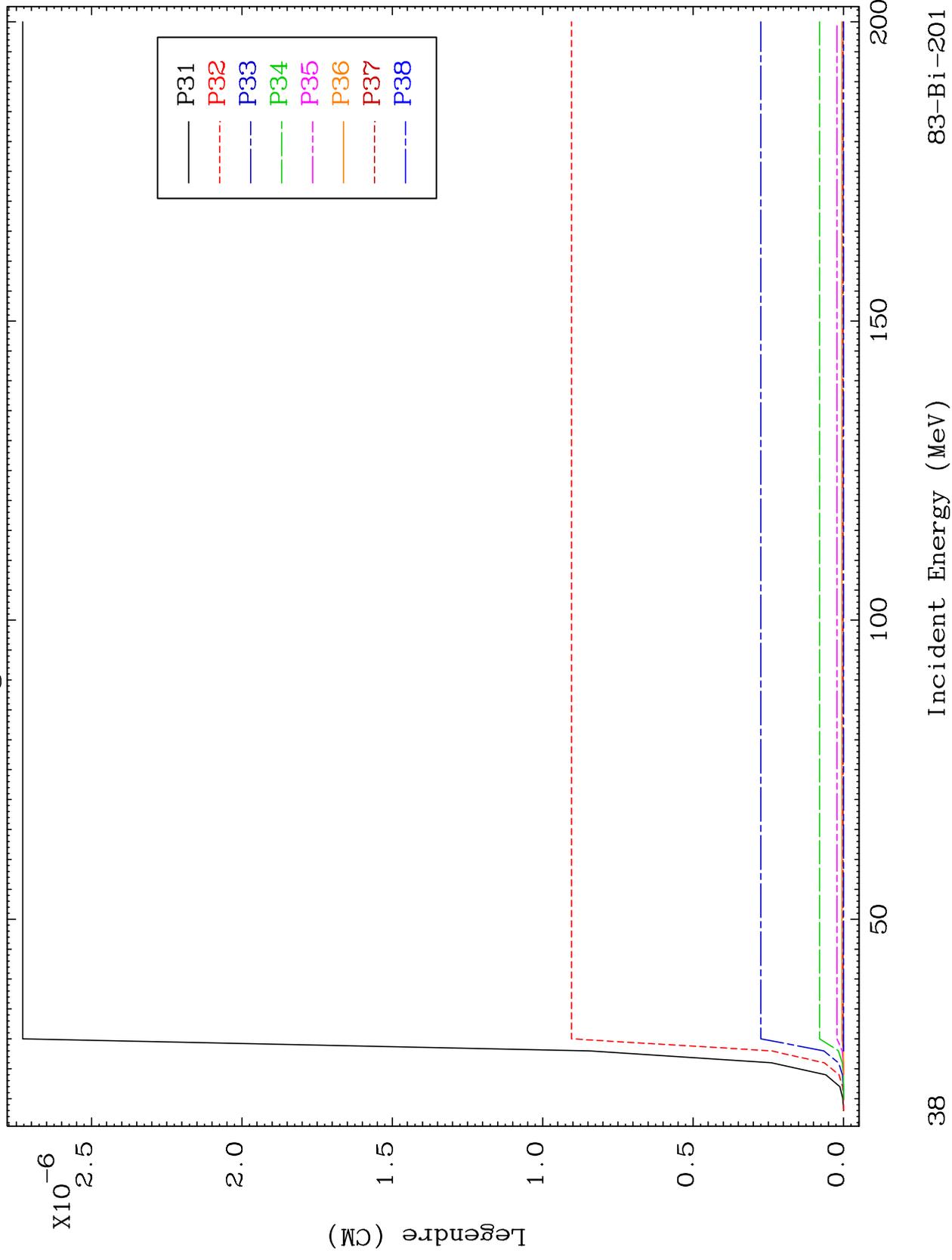
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MAT 8301

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

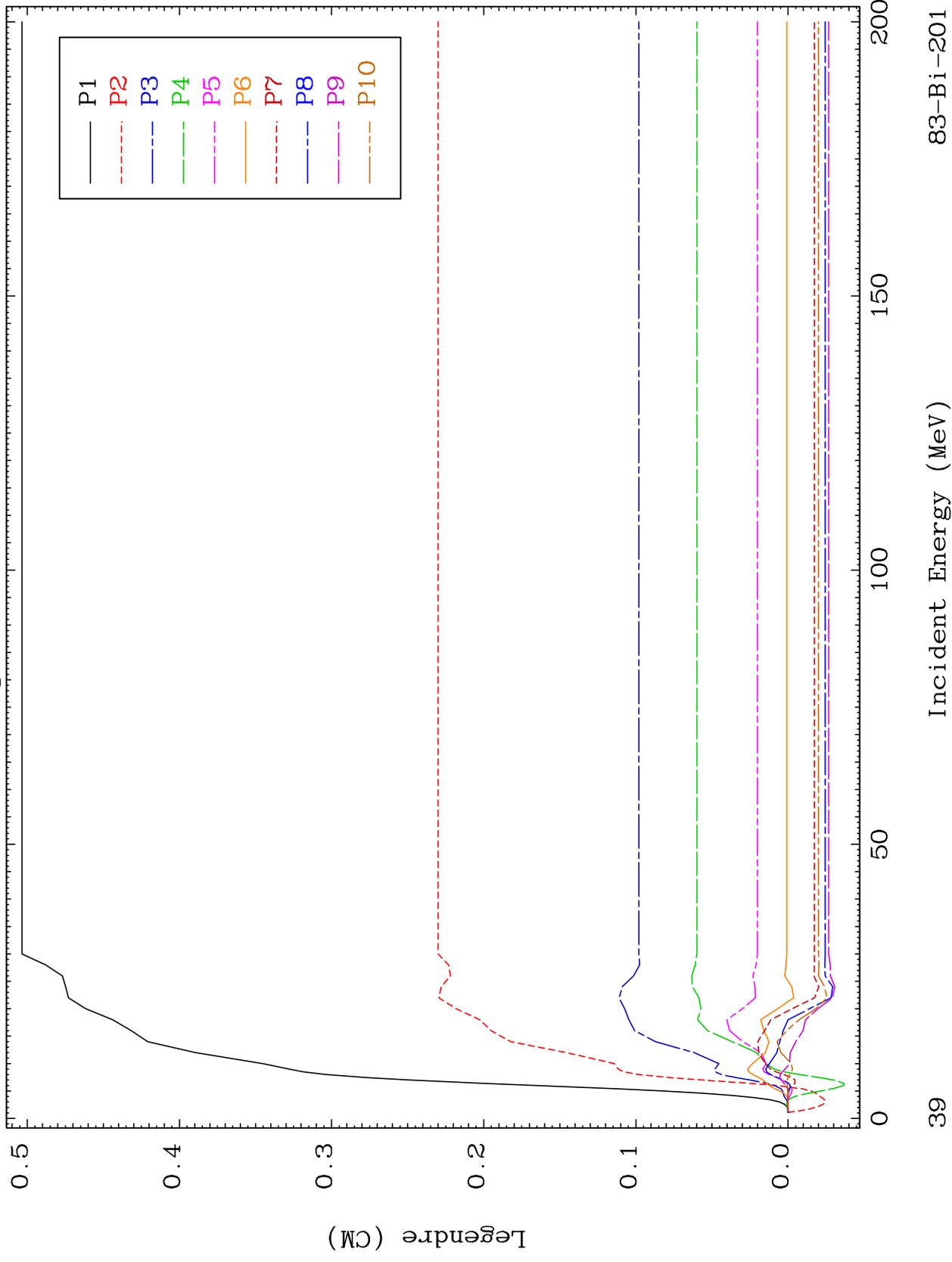
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MAT 8301

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

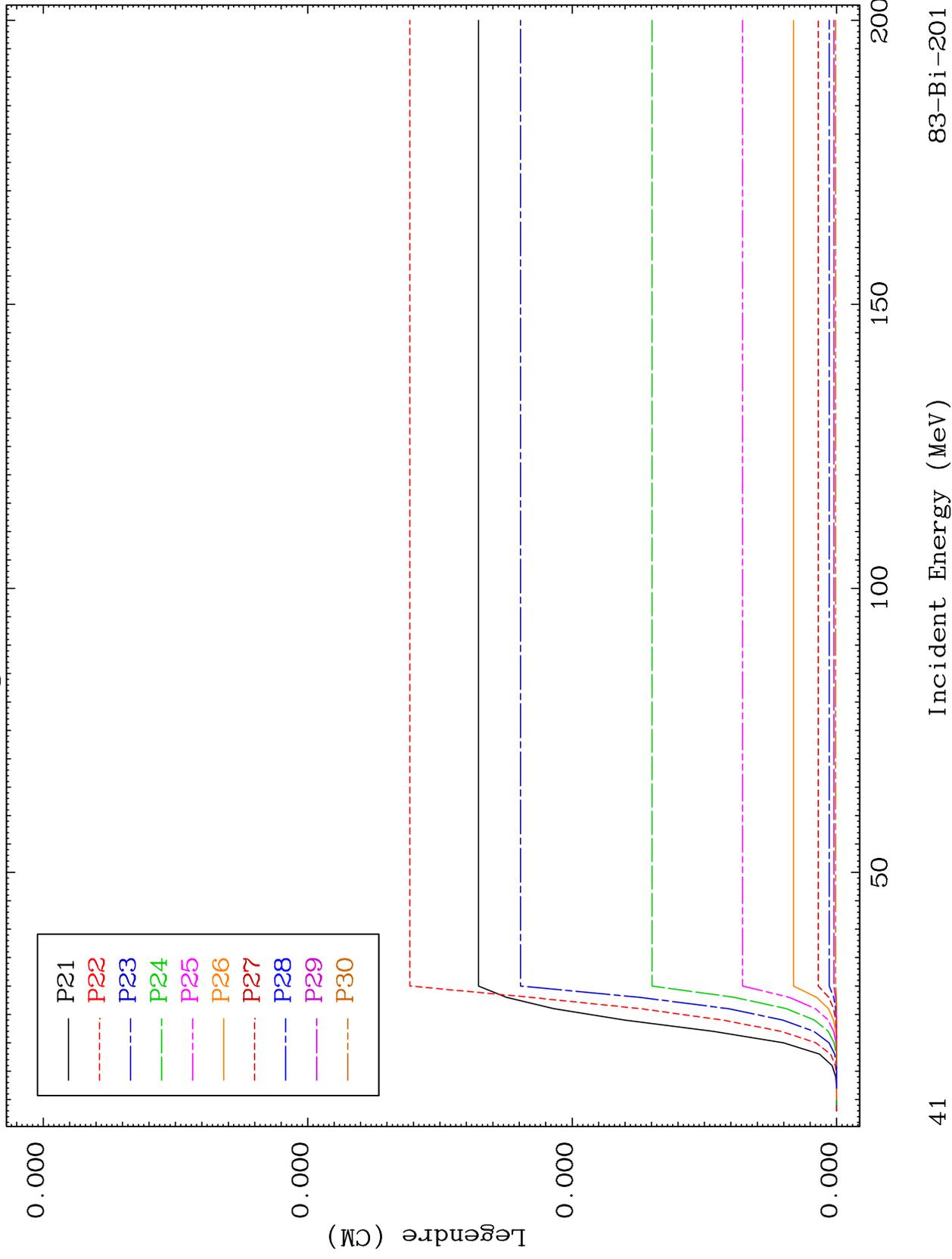
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MAT 8301

83-Bi-201

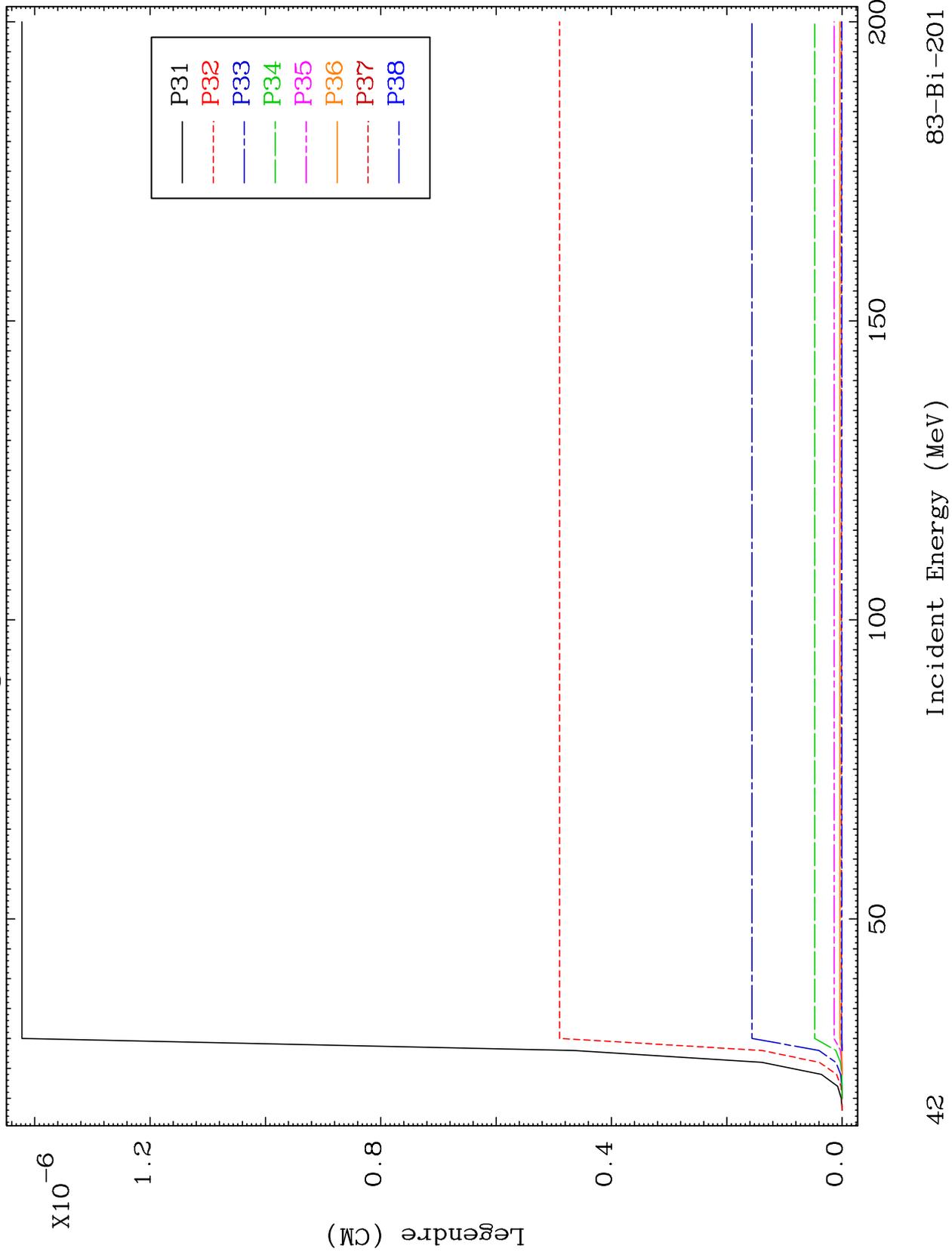
MT= 56 (n,n') Level
Legendre Coefficients



MAT 8301

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

83-Bi-201



42

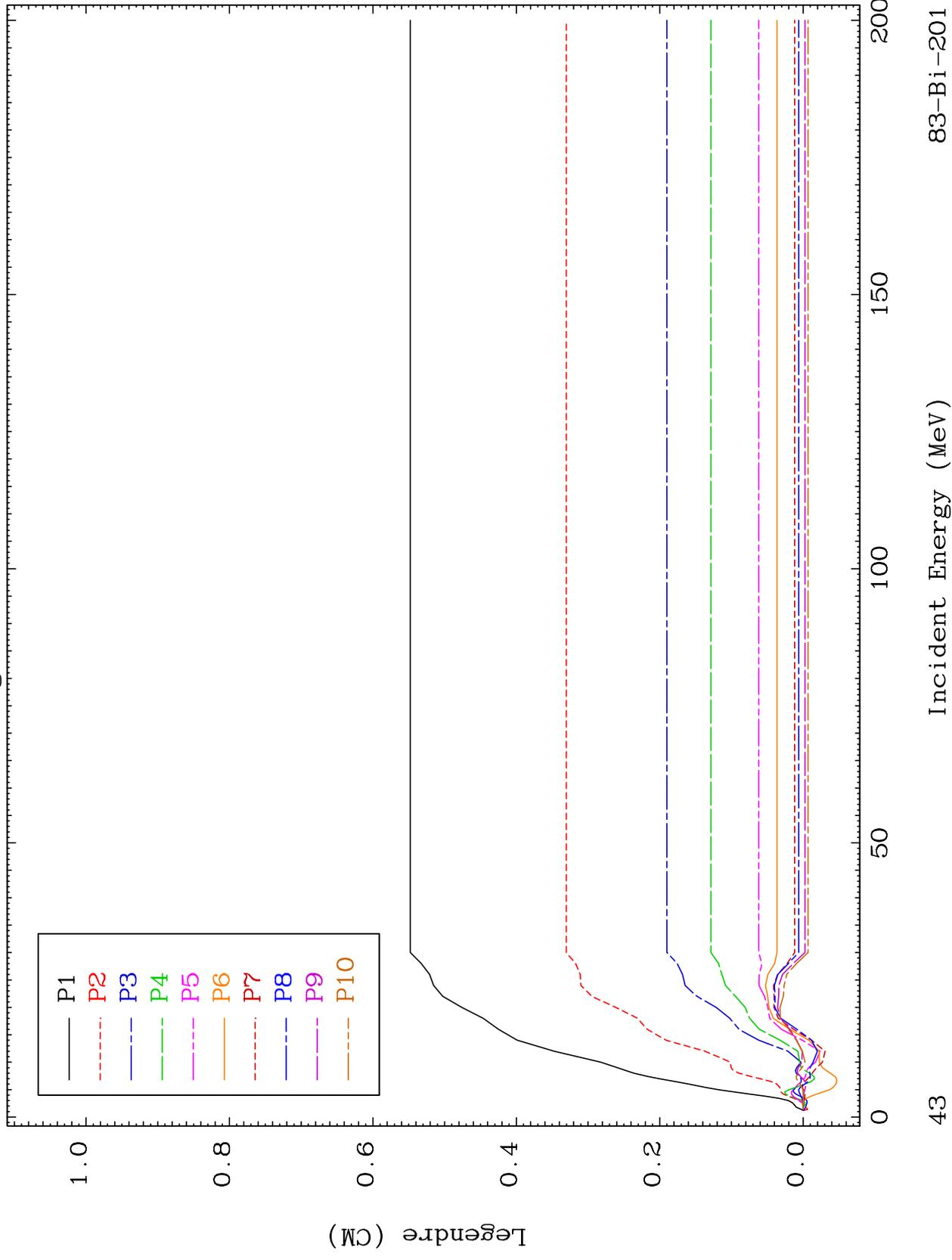
Incident Energy (MeV)

83-Bi-201

MAT 8301

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

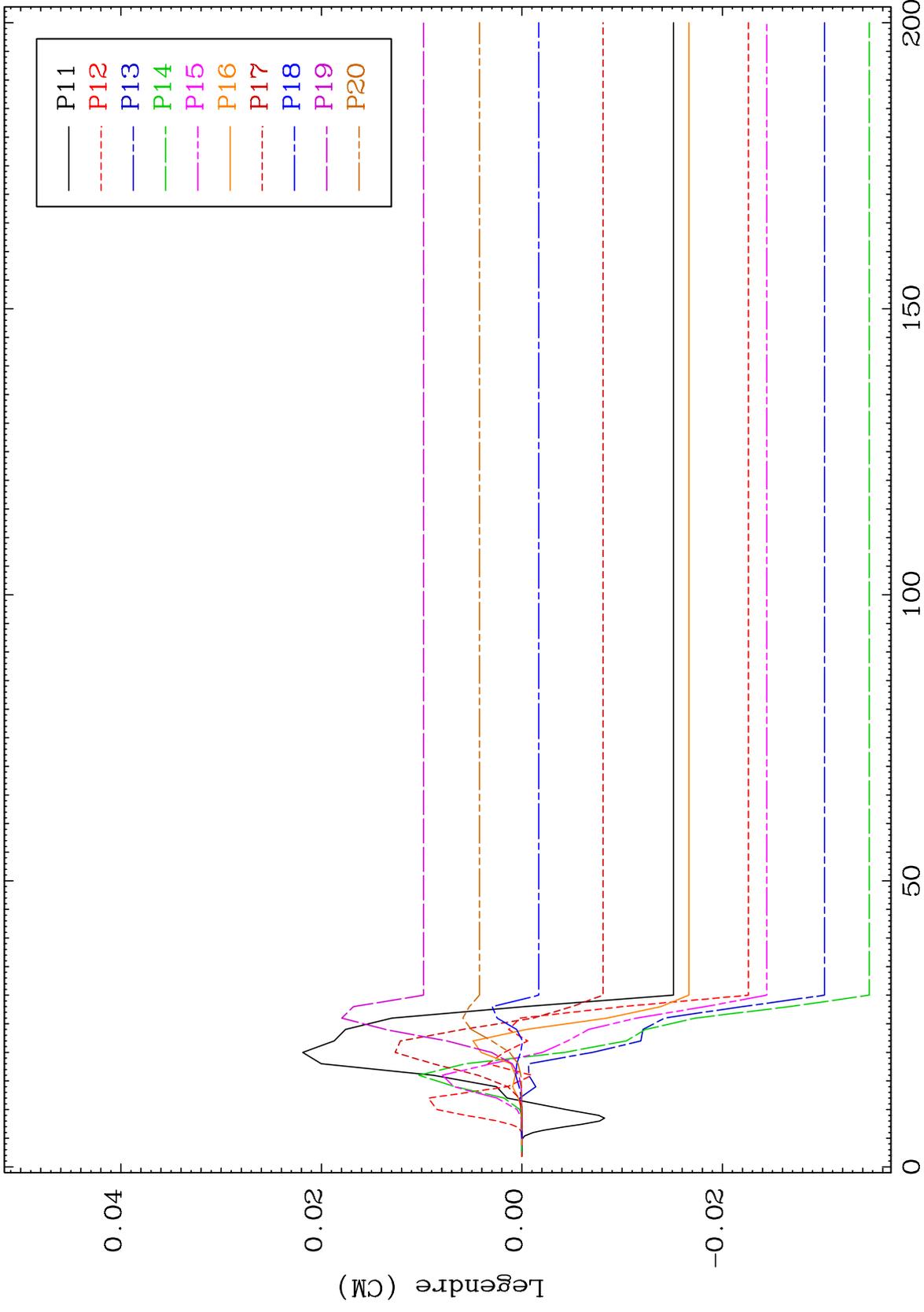
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MAT 8301

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

83-Bi-201



44

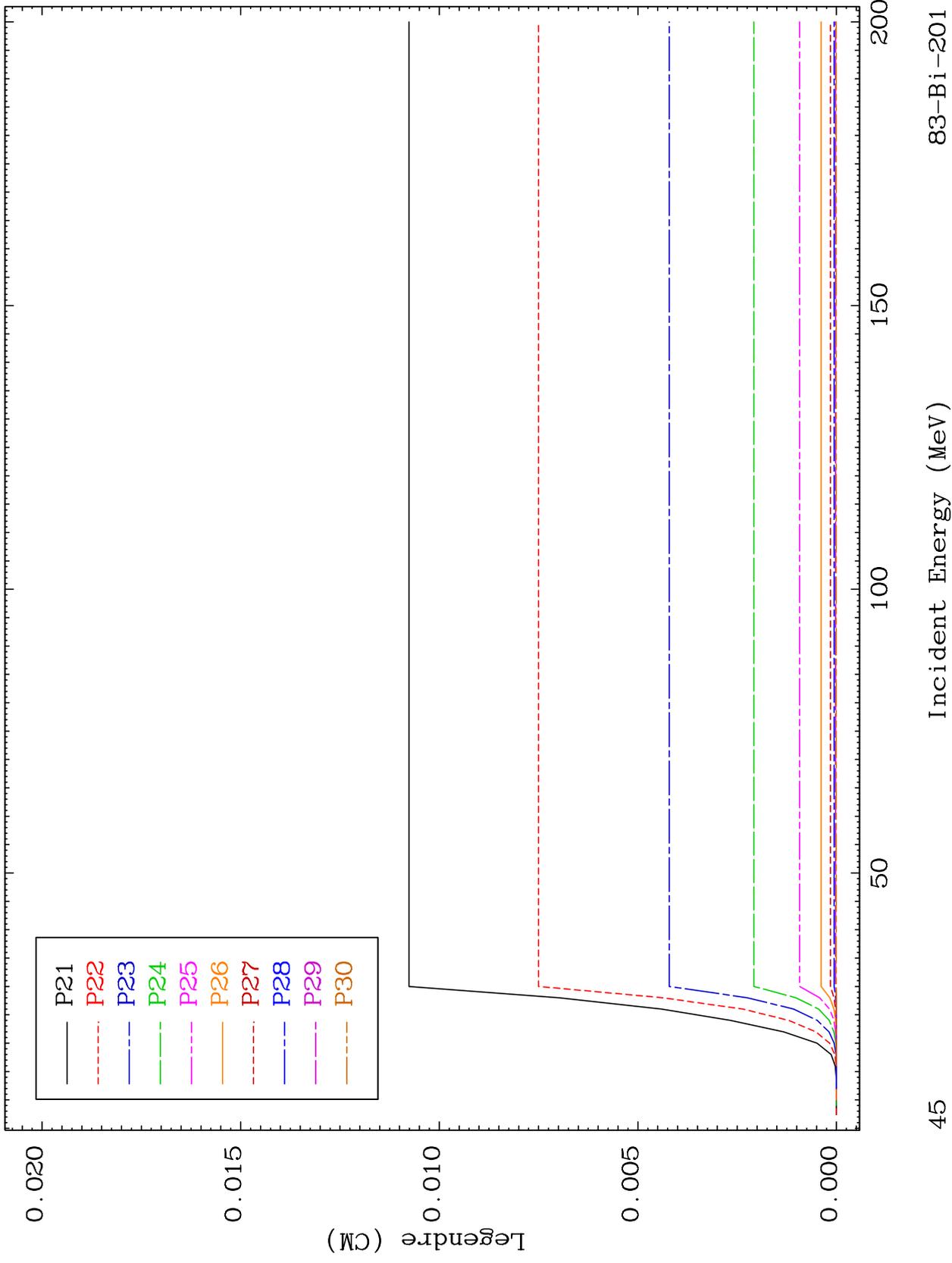
Incident Energy (MeV)

83-Bi-201

MAT 8301

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

83-Bi-201



45

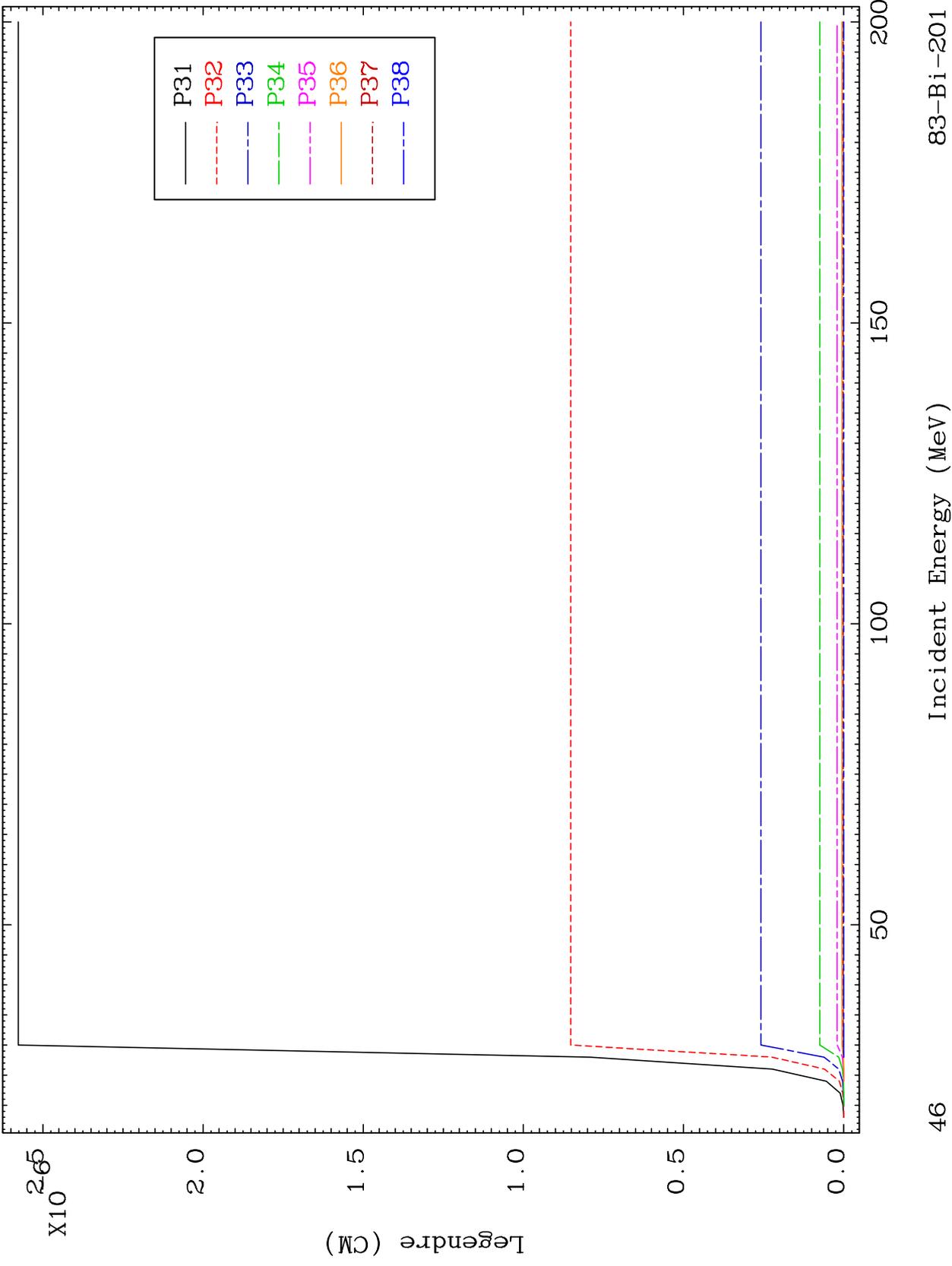
Incident Energy (MeV)

83-Bi-201

MAT 8301

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

83-Bi-201



46

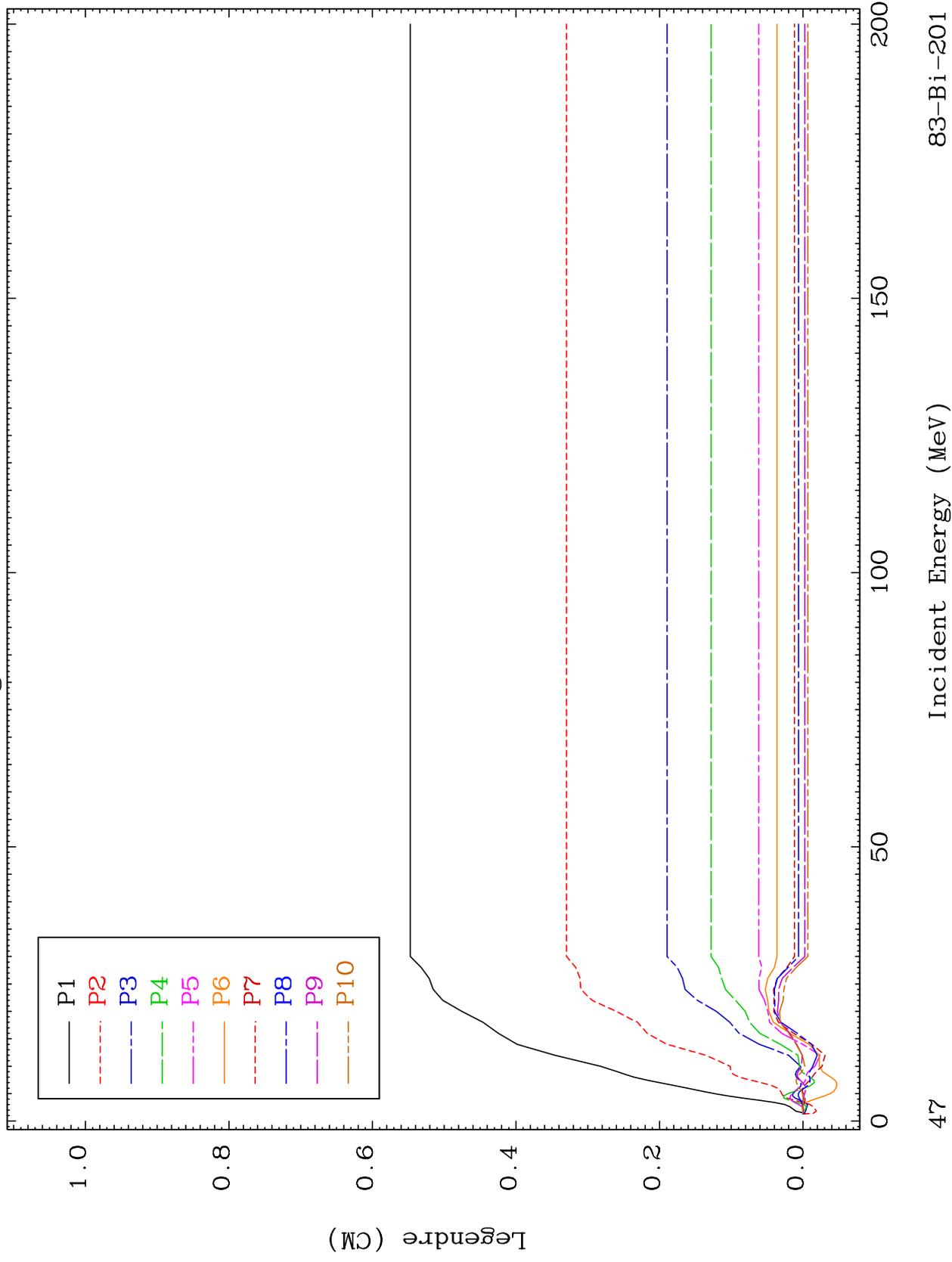
Incident Energy (MeV)

83-Bi-201

MAT 8301

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

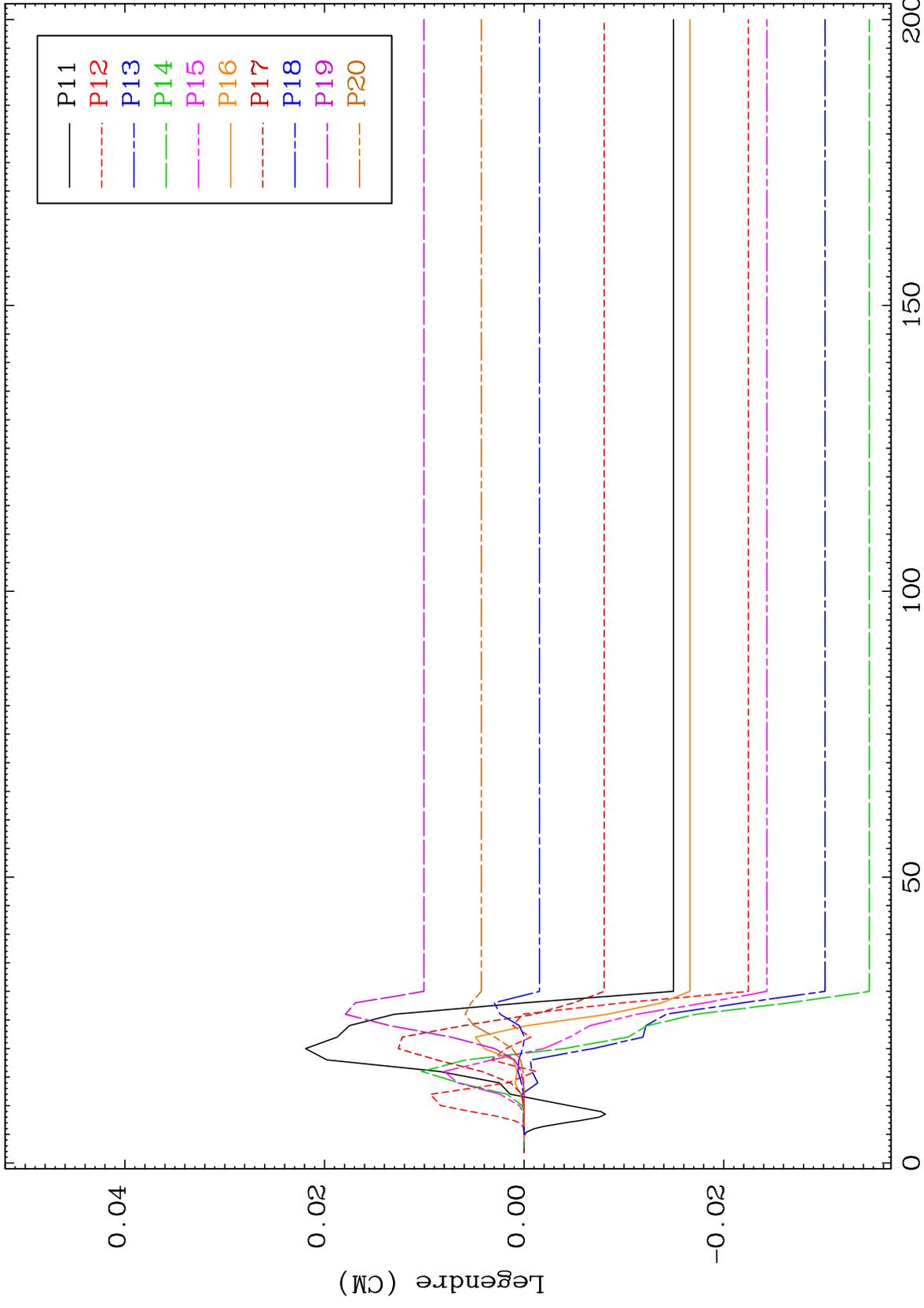
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MAT 8301

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

83-Bi-201



48

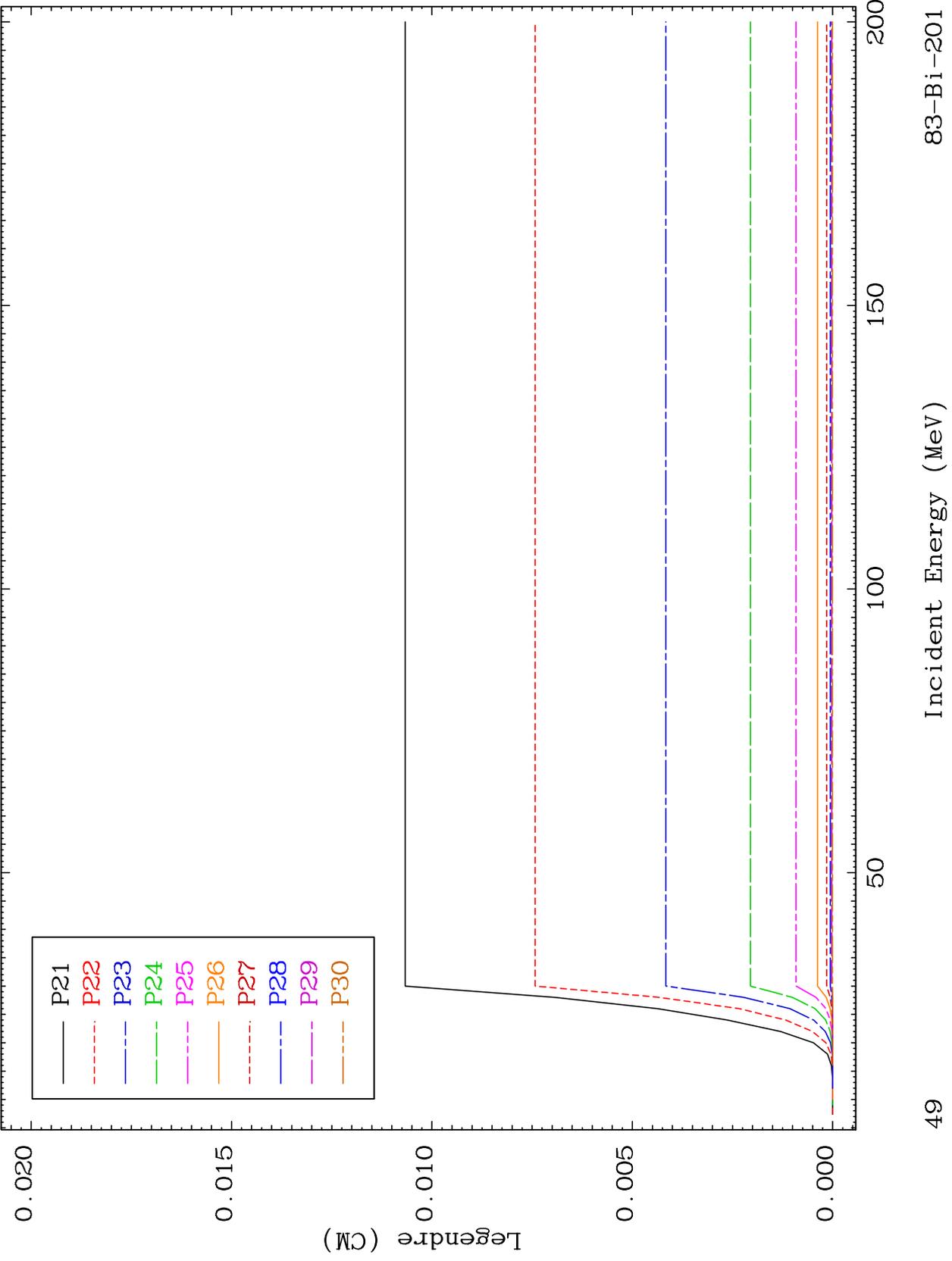
Incident Energy (MeV)

83-Bi-201

MAT 8301

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

83-Bi-201



49

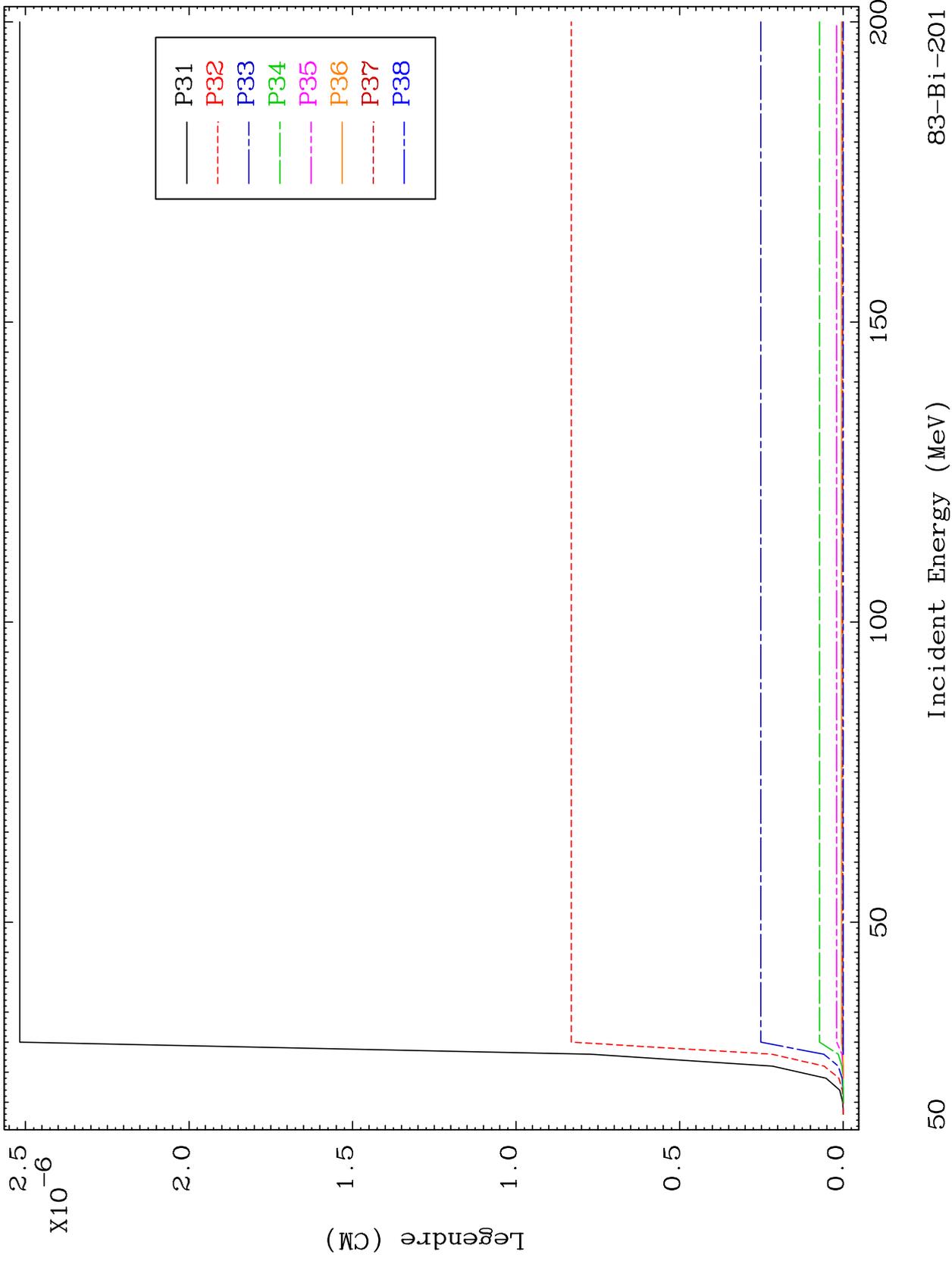
Incident Energy (MeV)

83-Bi-201

MAT 8301

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

83-Bi-201

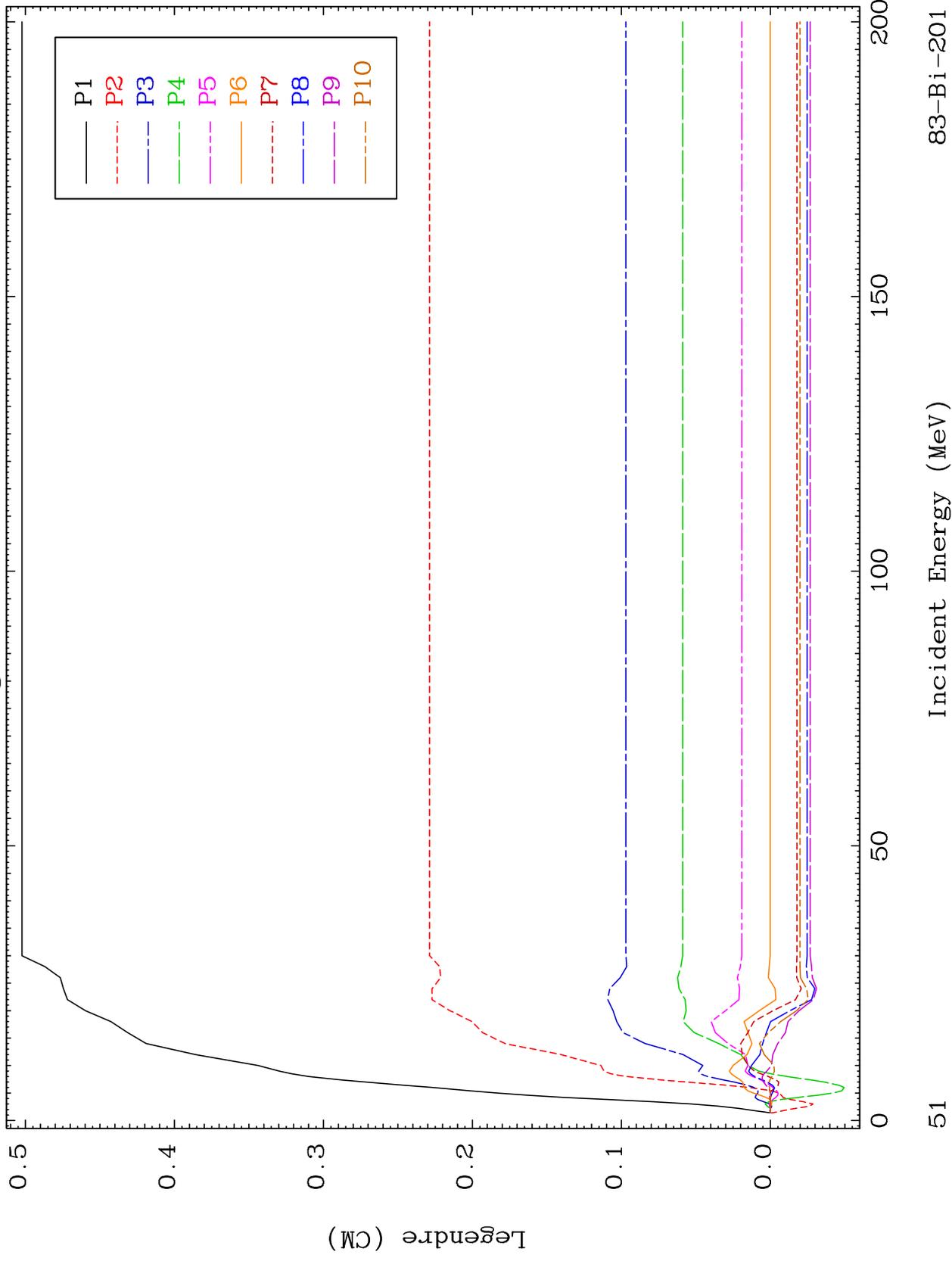


MAT 8301

MT= 59 (n,n') Level

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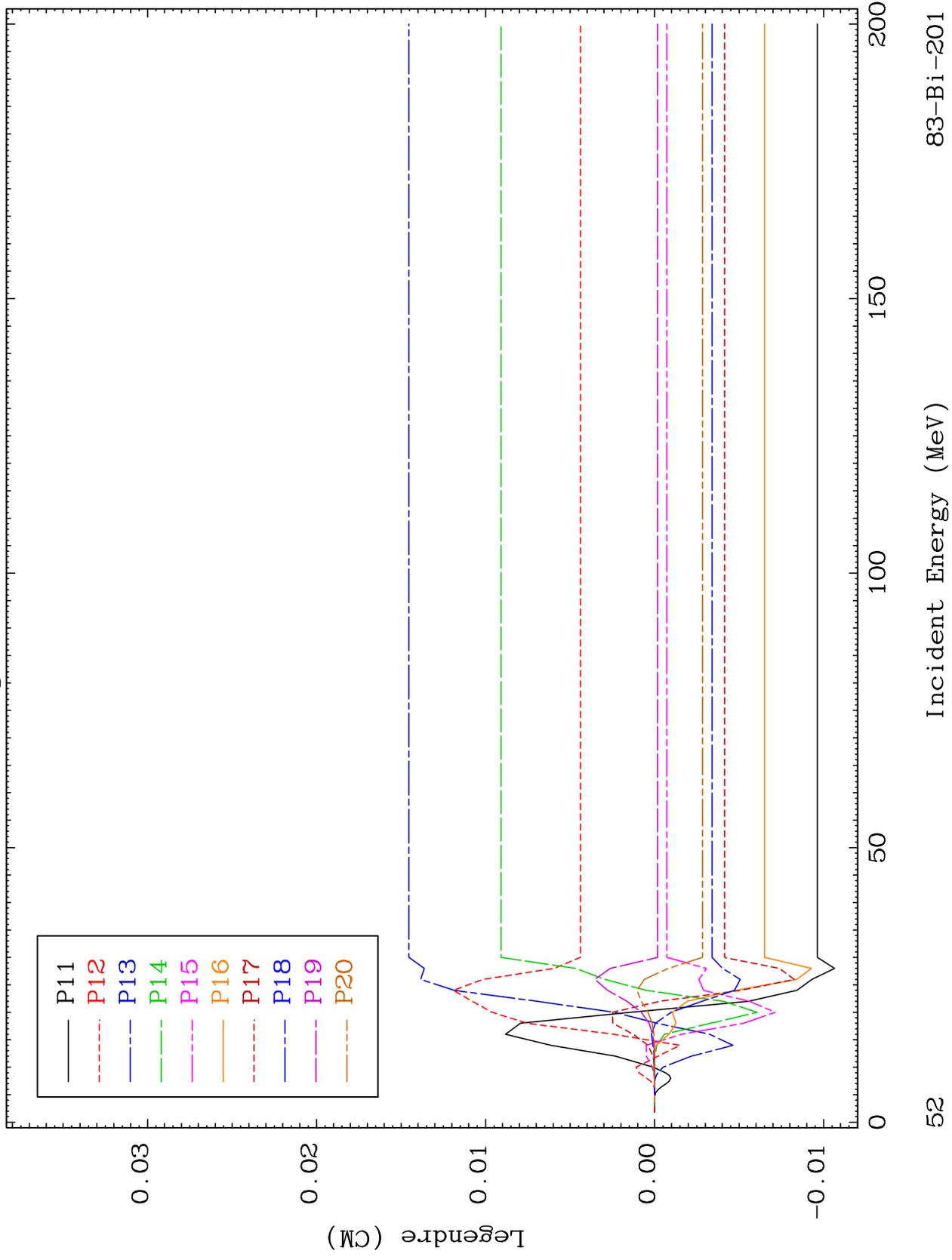
Legendre Coefficients



MAT 8301

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

83-Bi-201

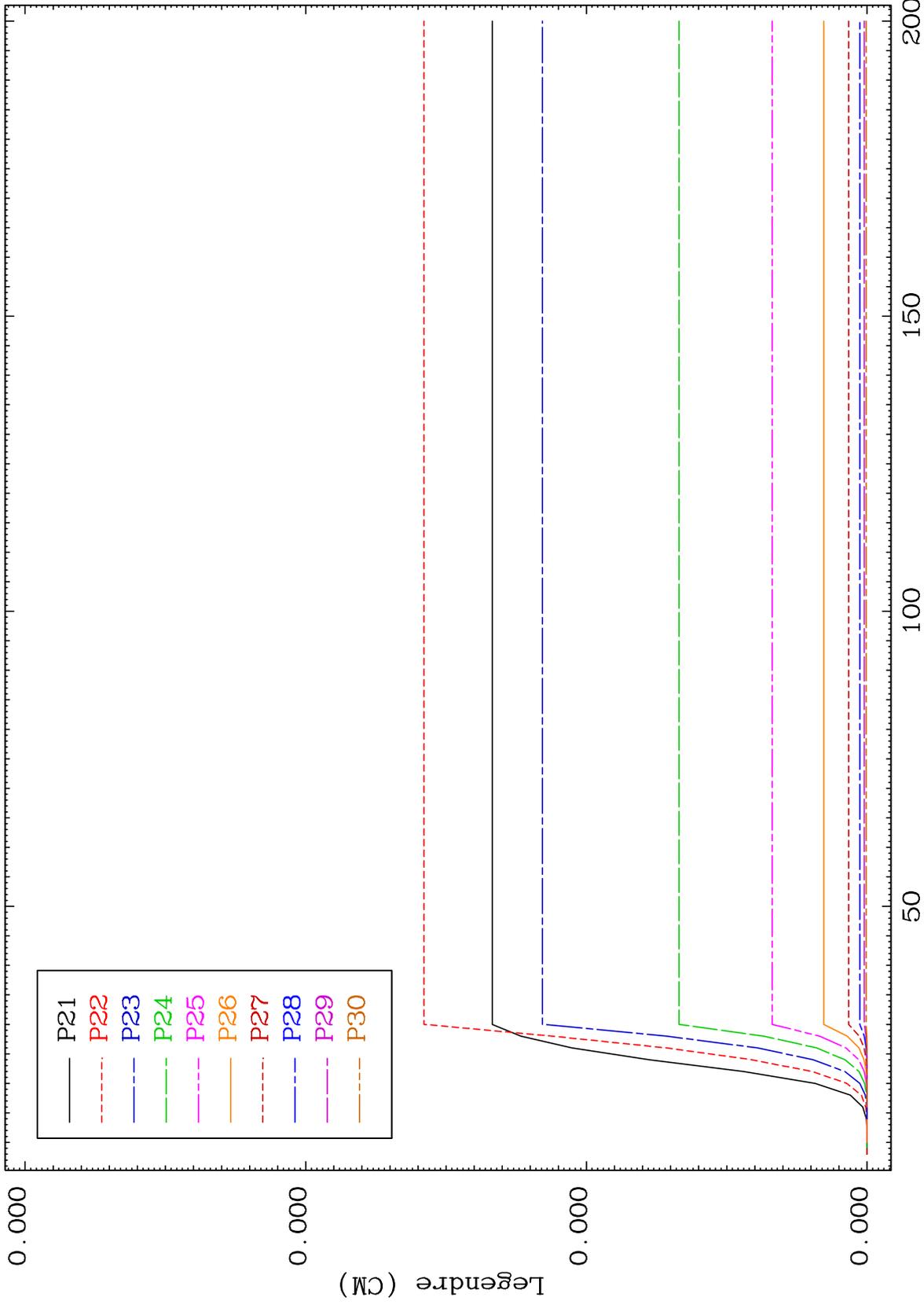


52

MAT 8301

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

83-Bi-201



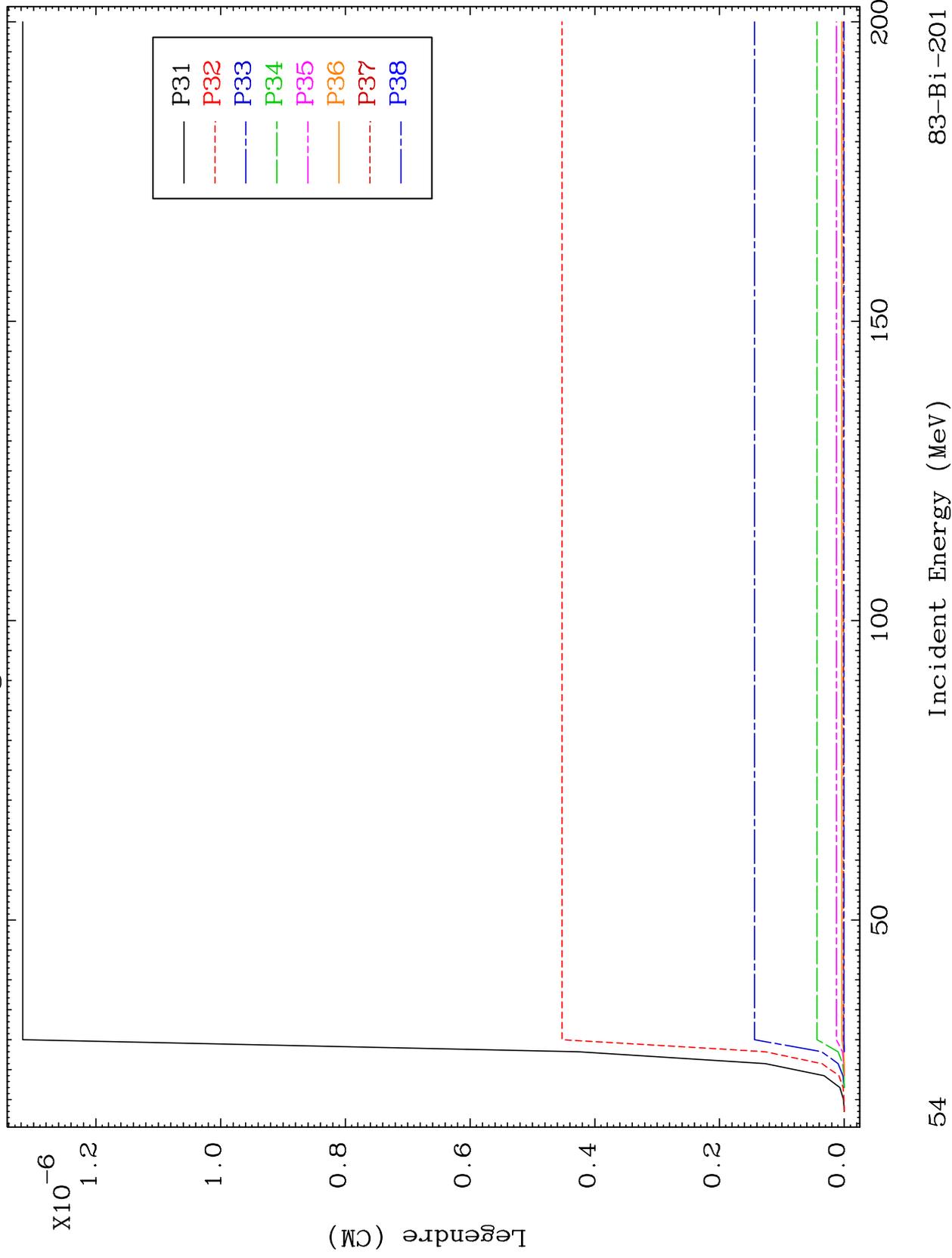
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83-Bi-201

MAT 8301

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

83-Bi-201



54

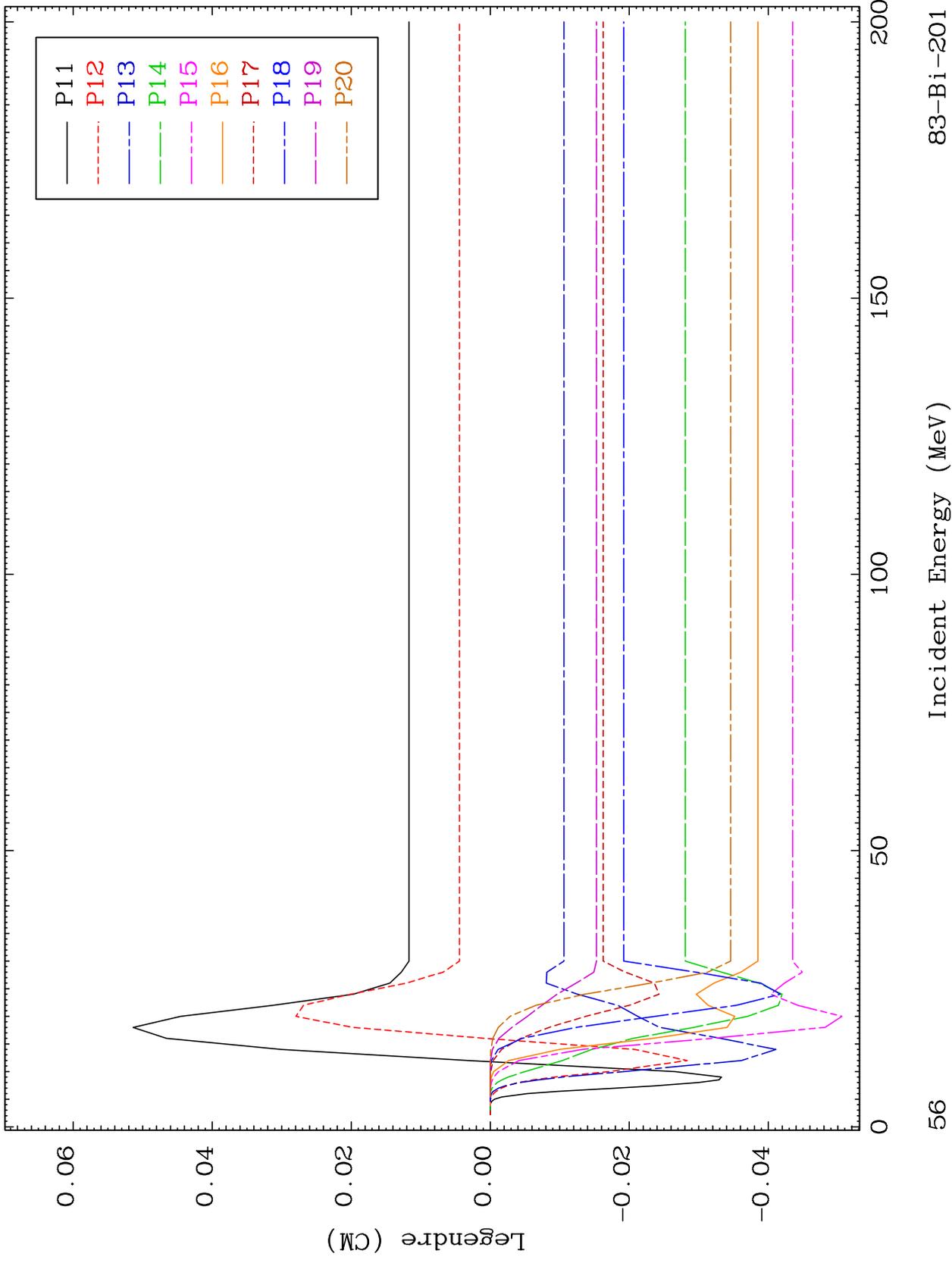
Incident Energy (MeV)

83-Bi-201

MAT 8301

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

83-Bi-201



83-Bi-201

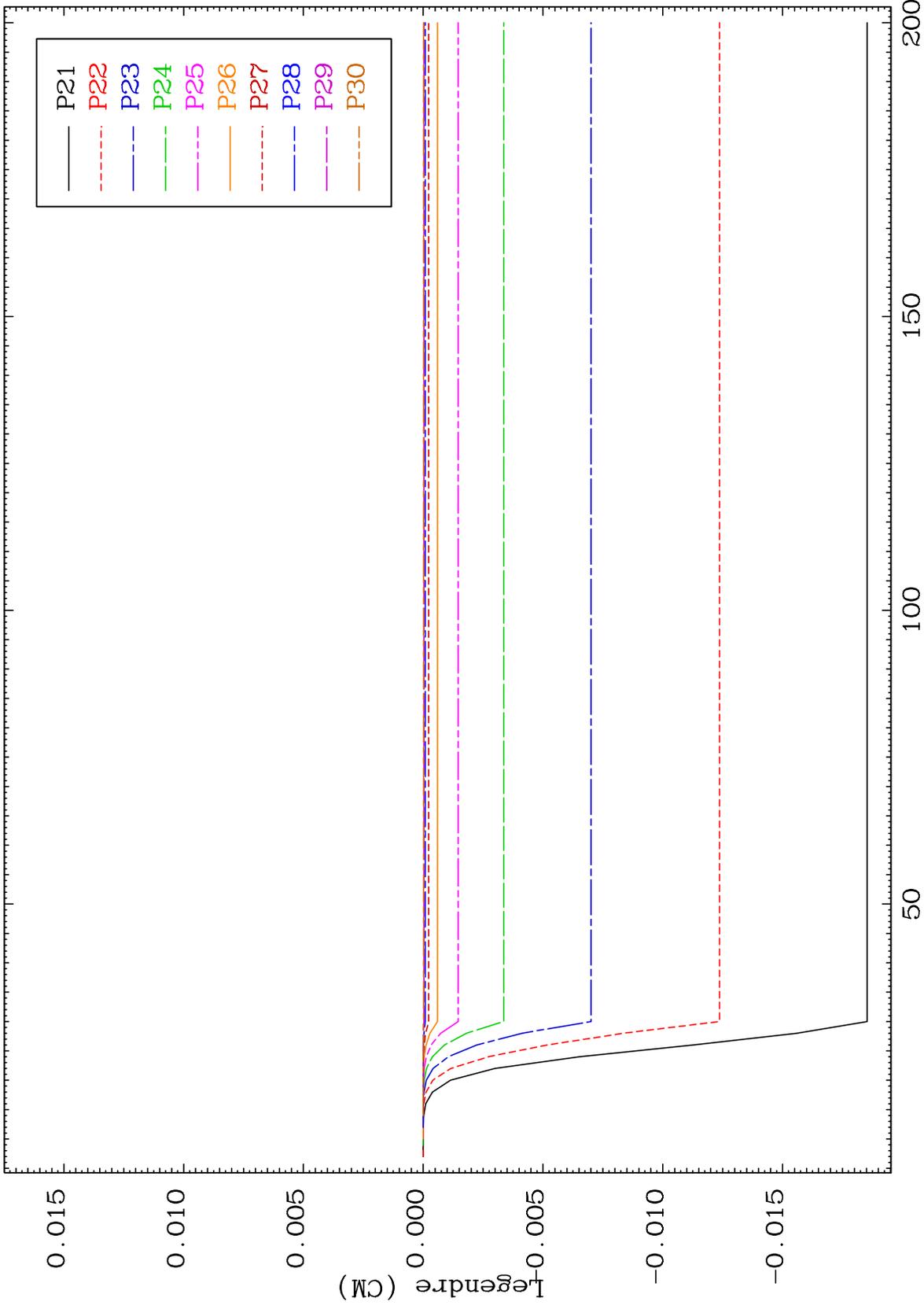
Incident Energy (MeV)

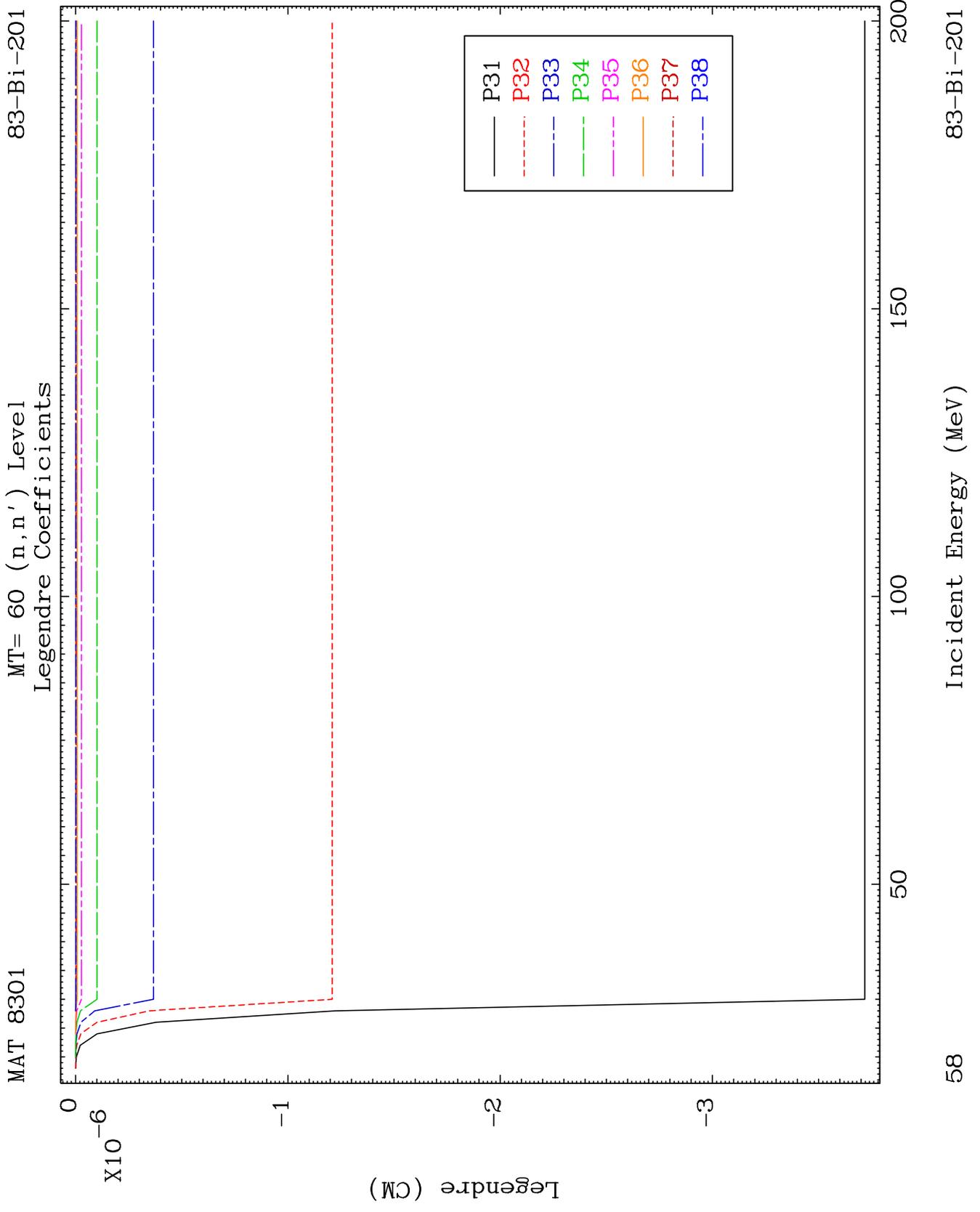
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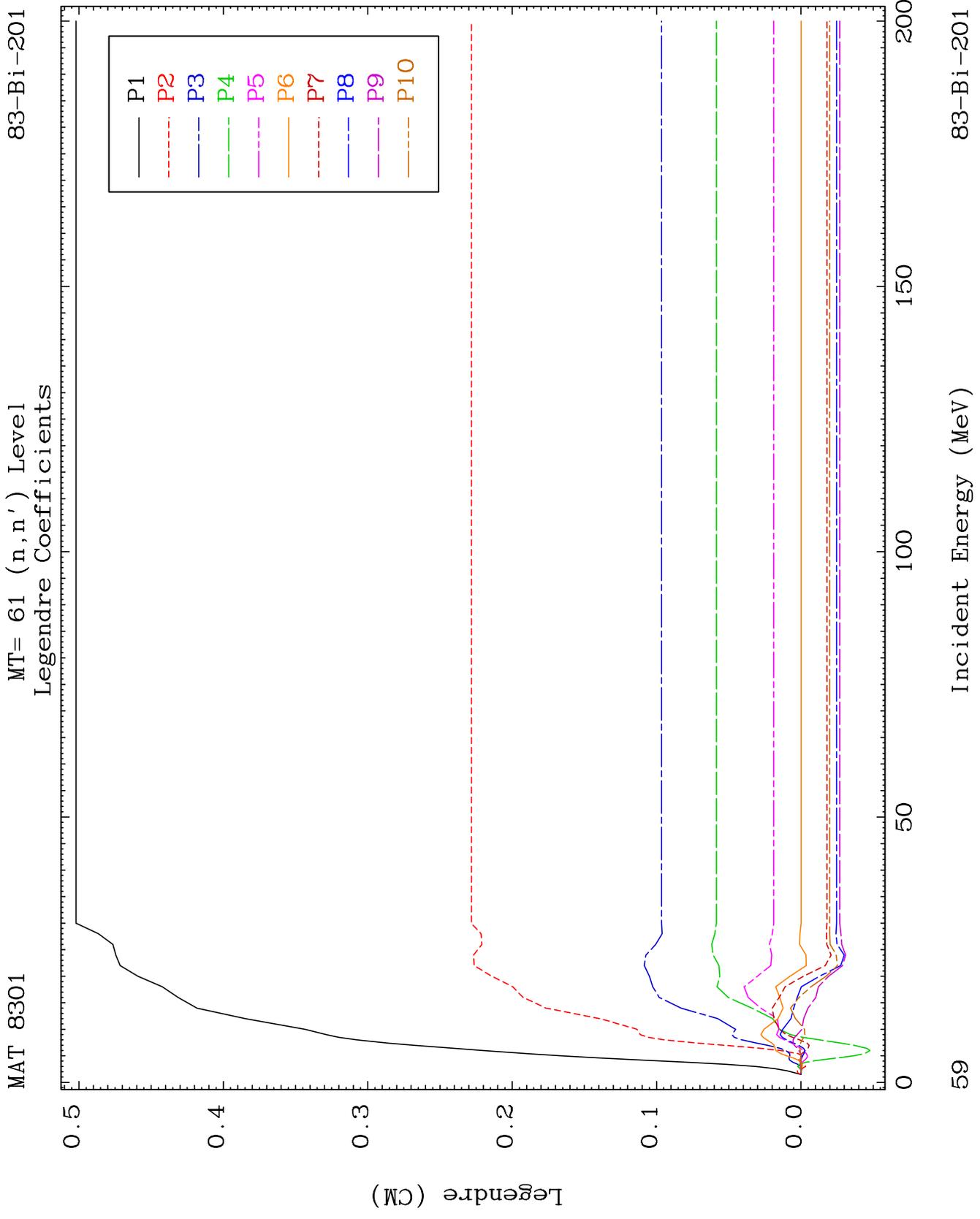
MAT 8301

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

83-Bi-201



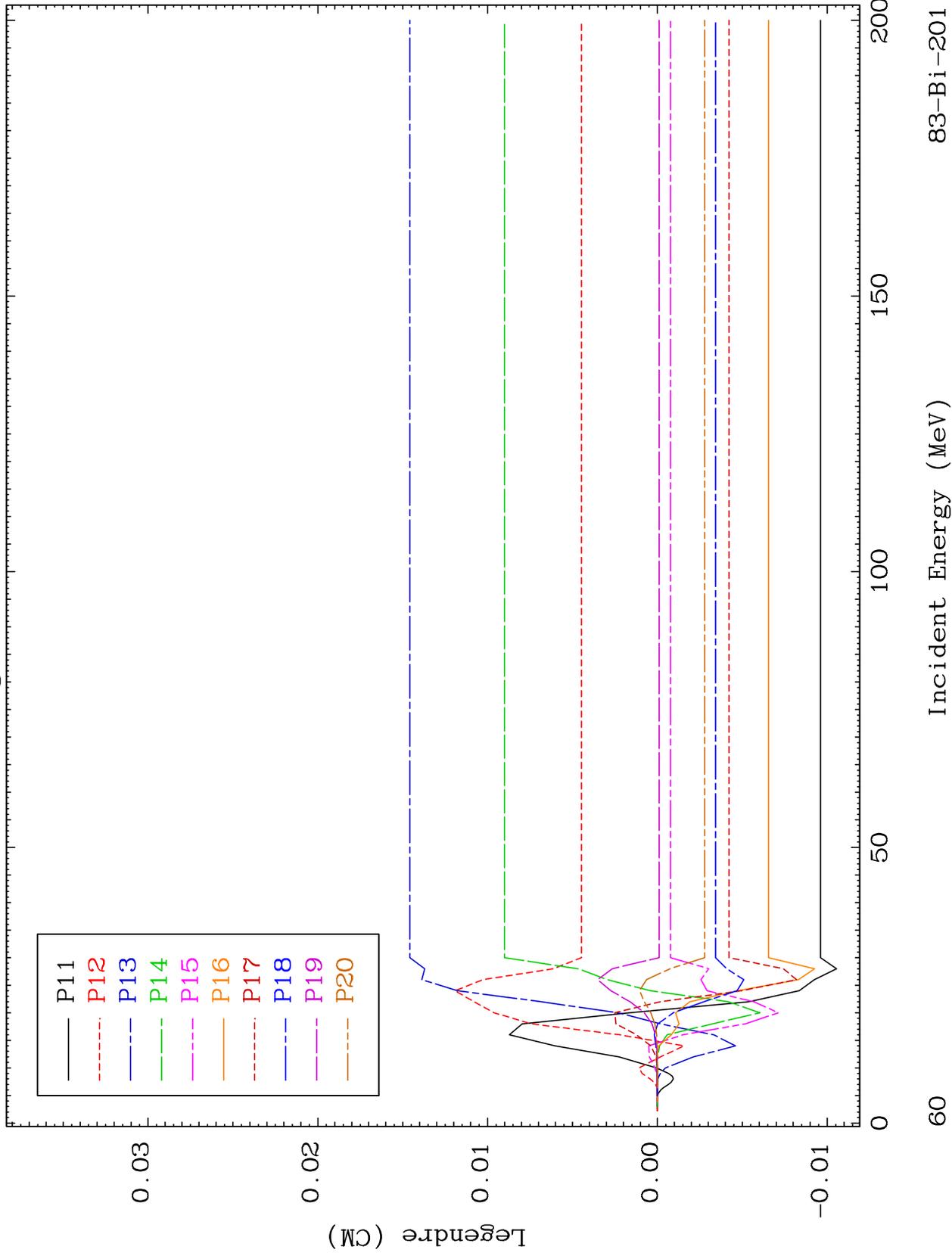




MAT 8301

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

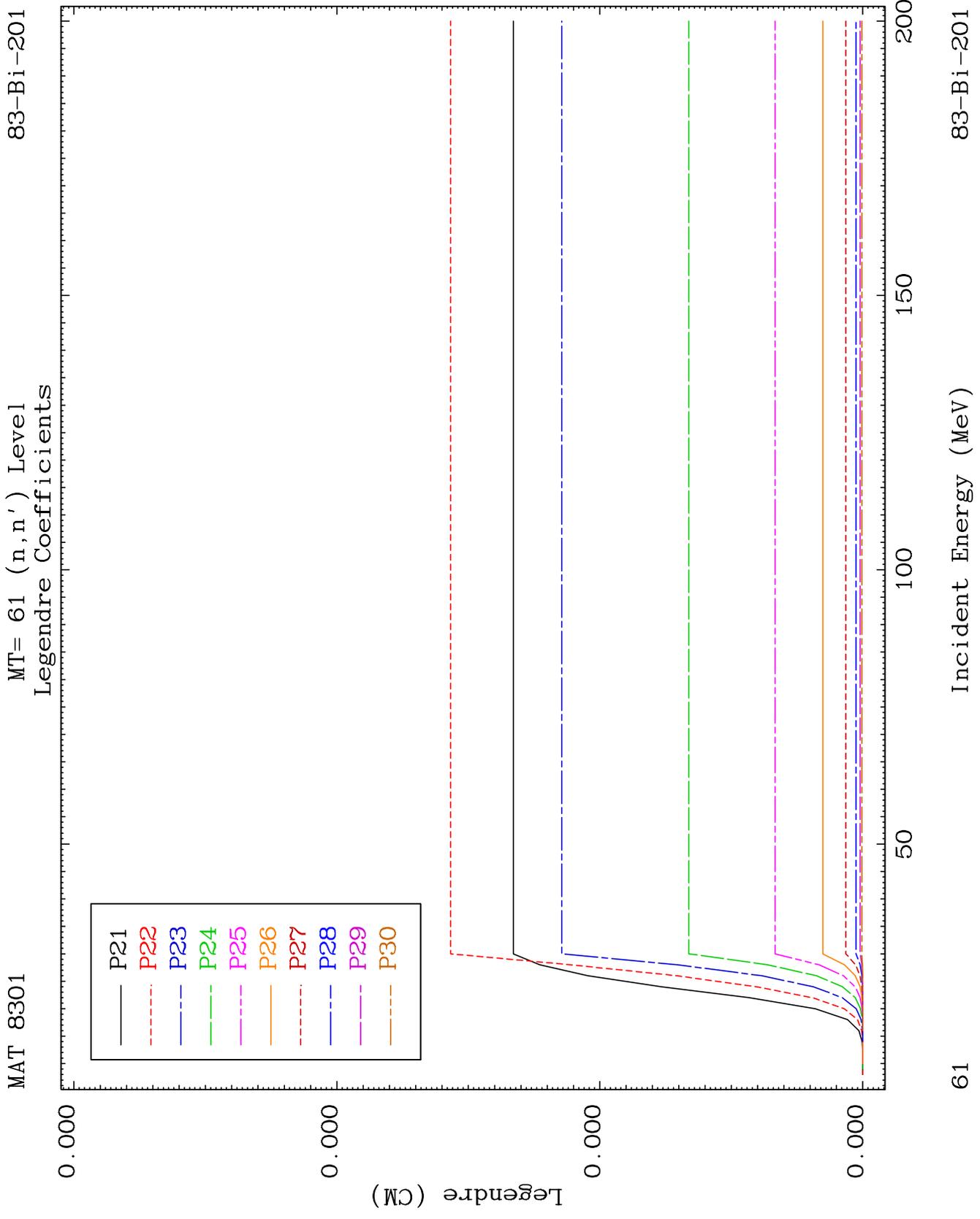
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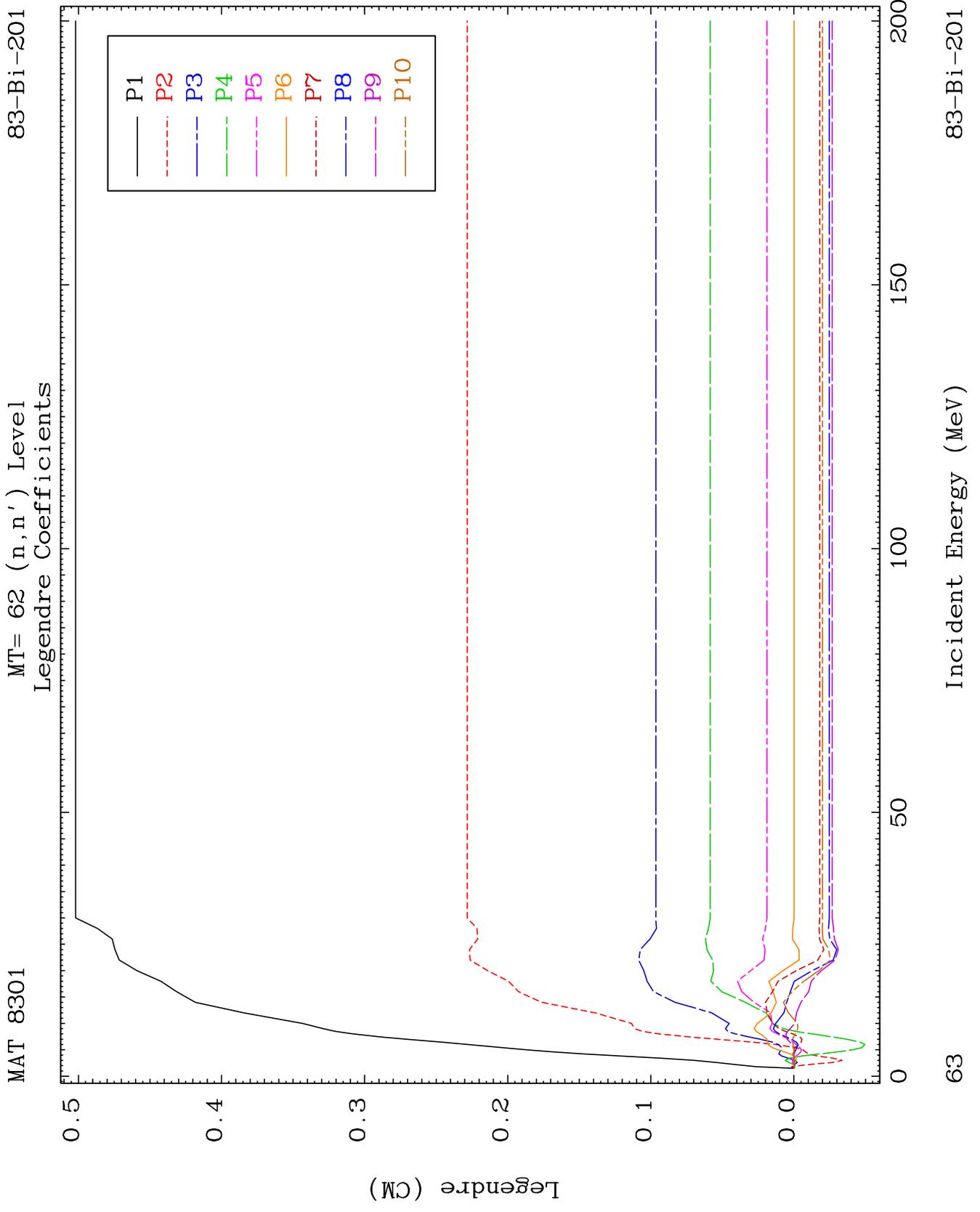


83-Bi-201

Incident Energy (MeV)

60

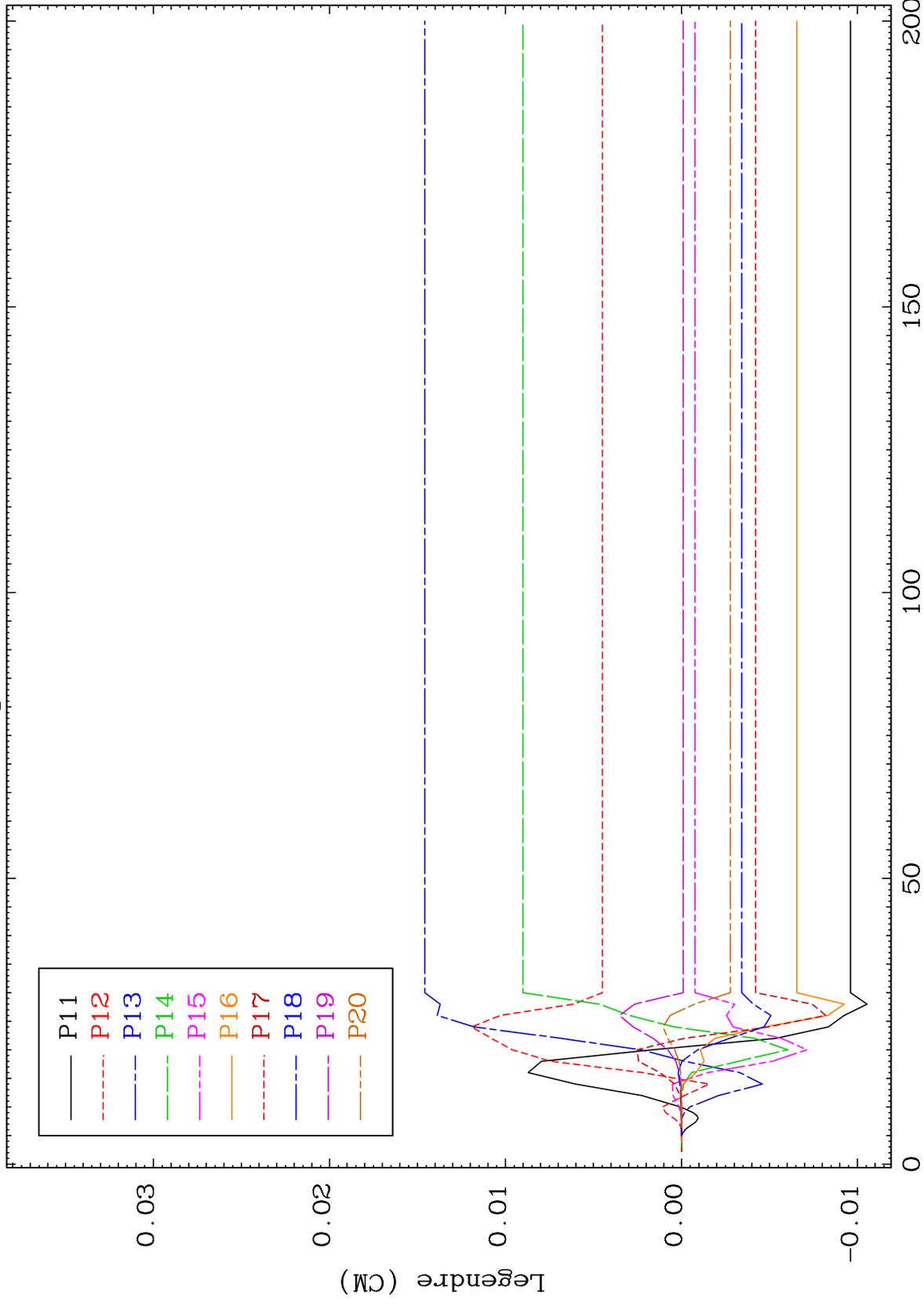




MAT 8301

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

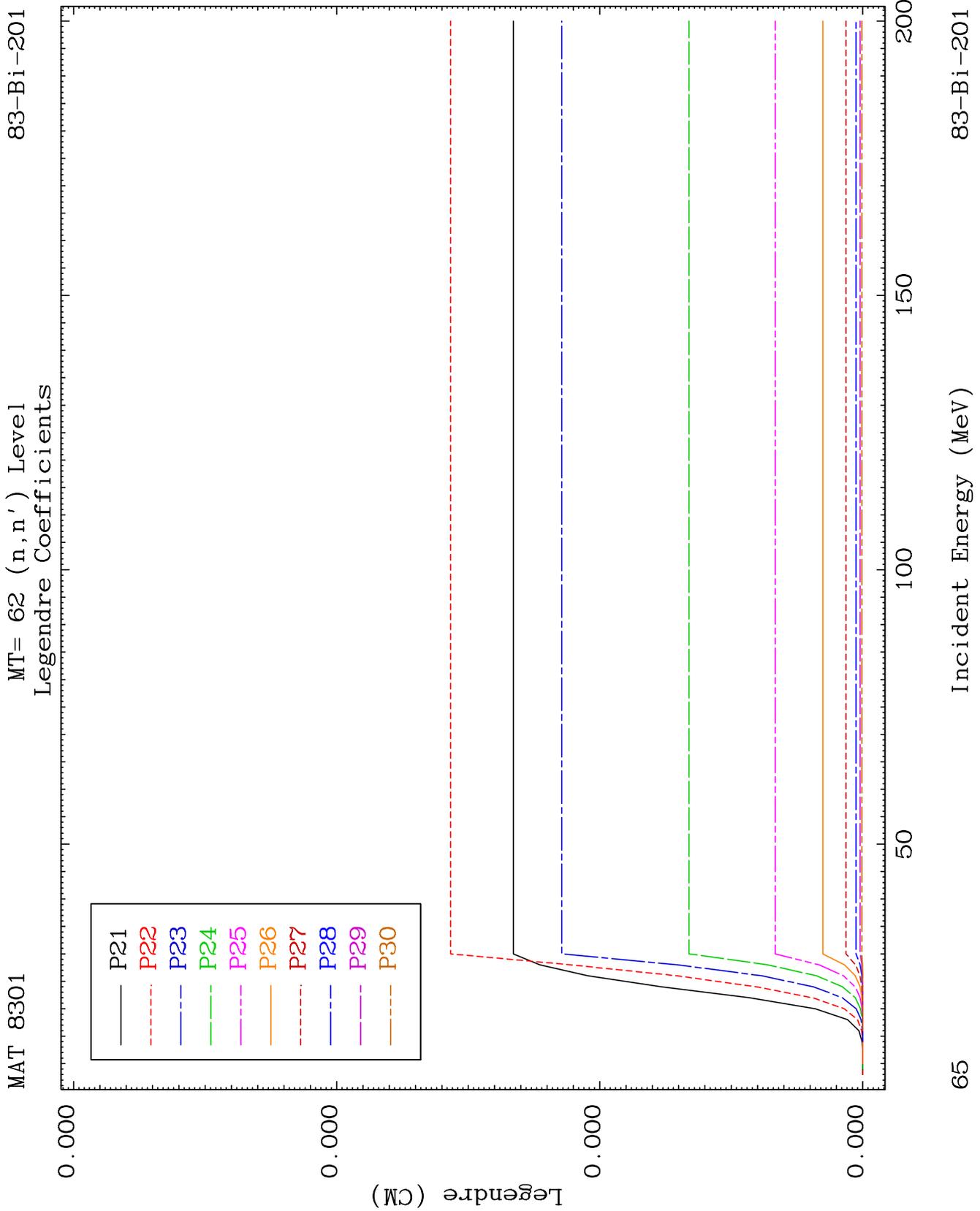
83-Bi-201



64

Incident Energy (MeV)

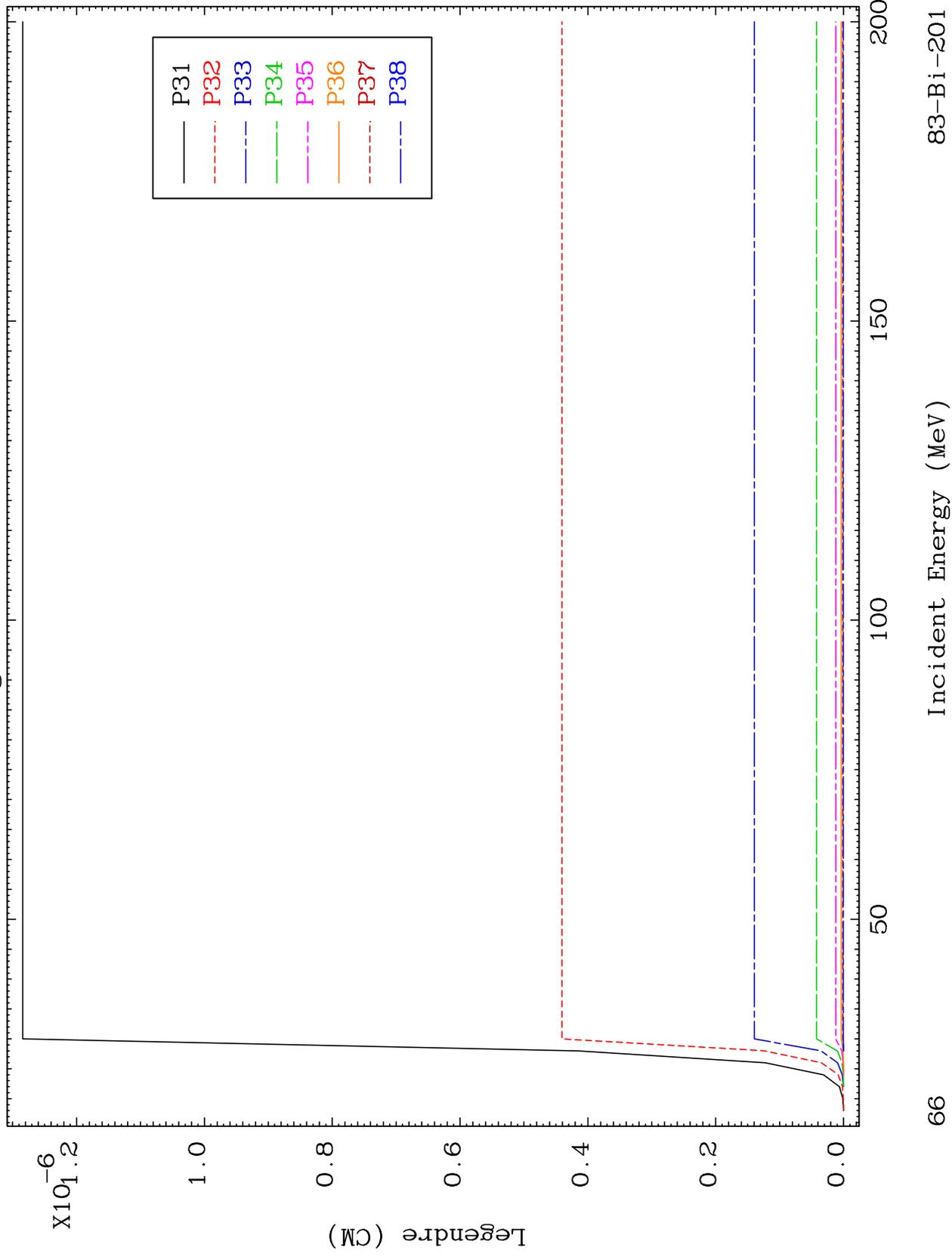
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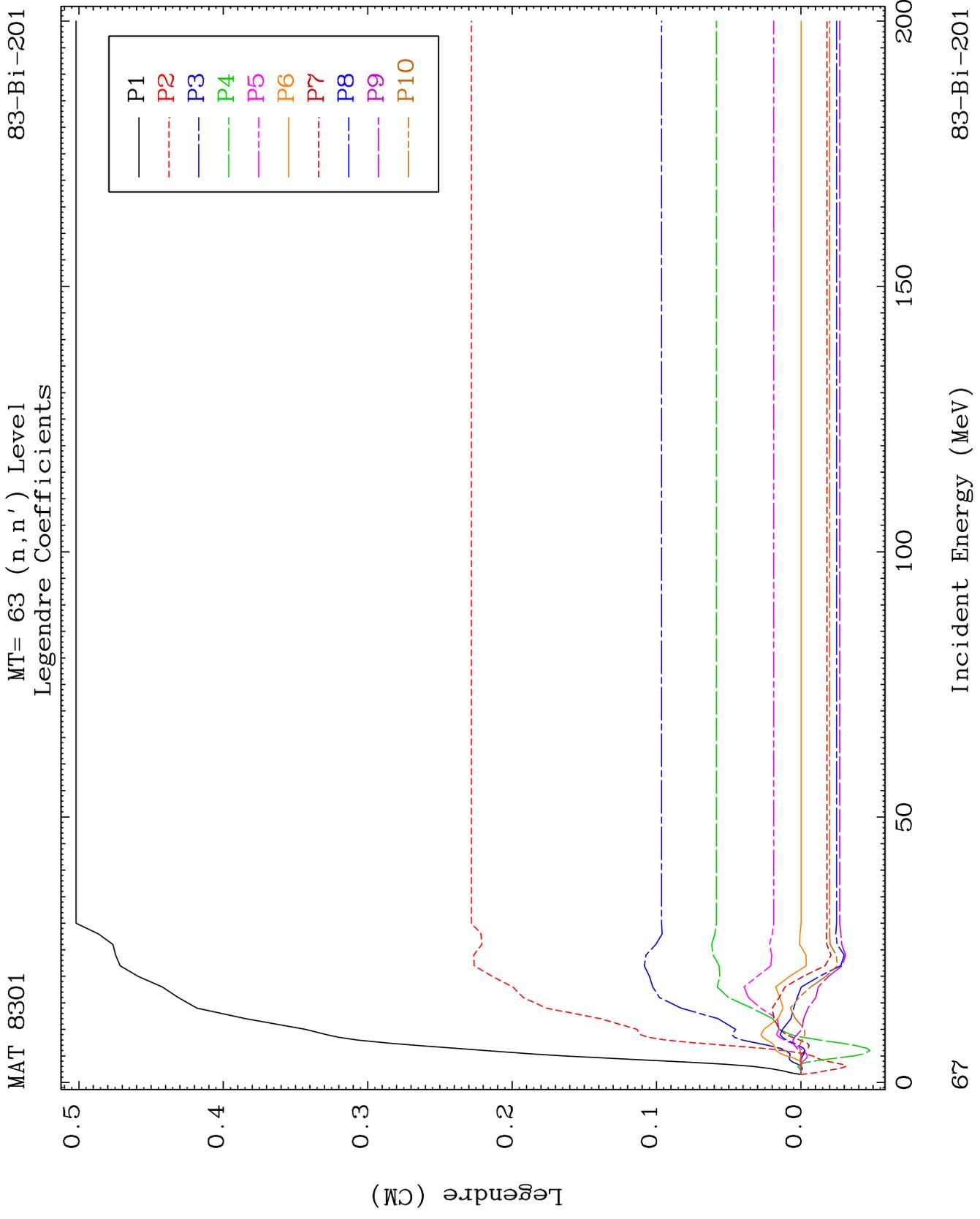


MAT 8301

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

83-Bi-201

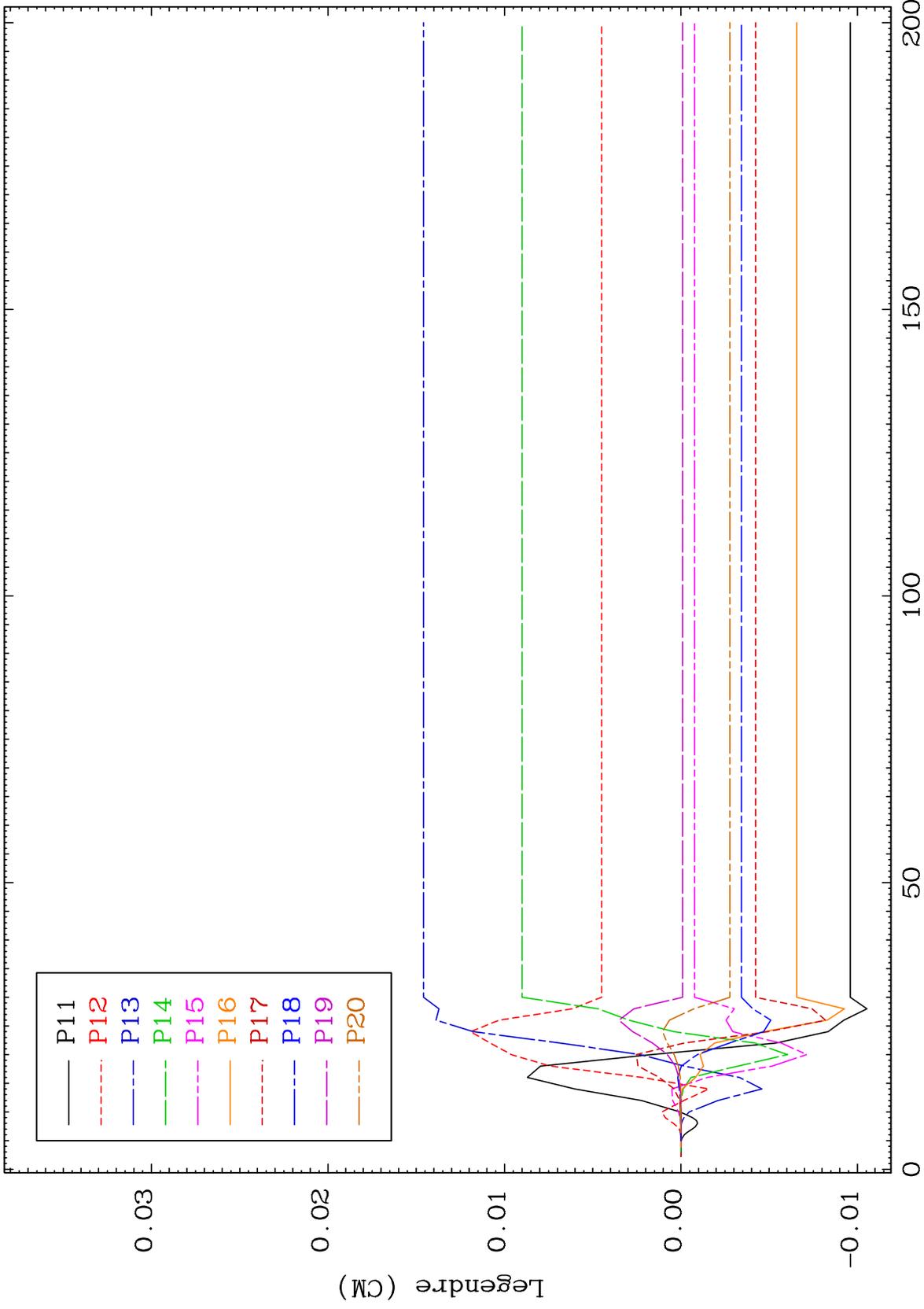




MAT 8301

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

83-Bi-201



68

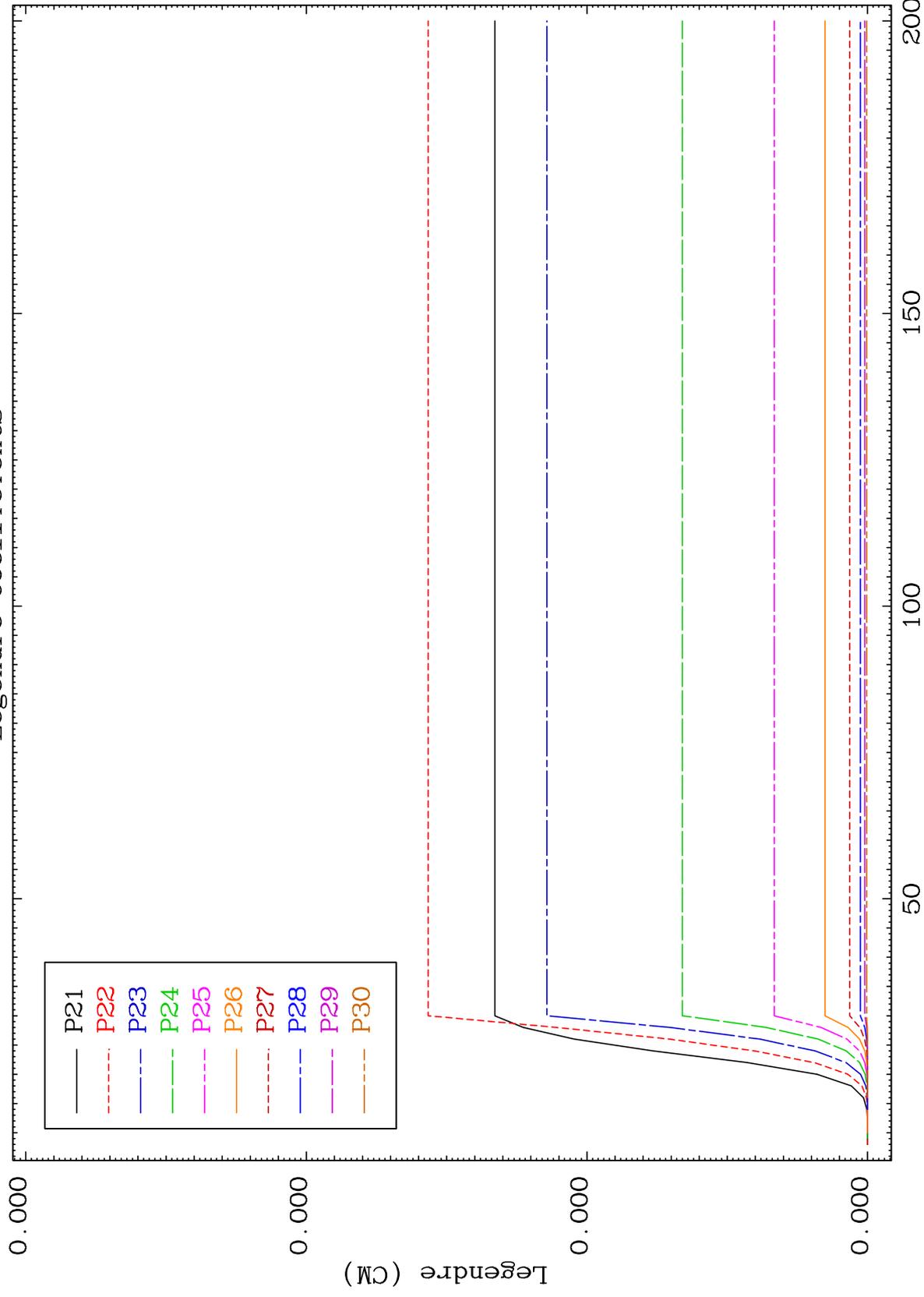
Incident Energy (MeV)

83-Bi-201

MAT 8301

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

83-Bi-201



69

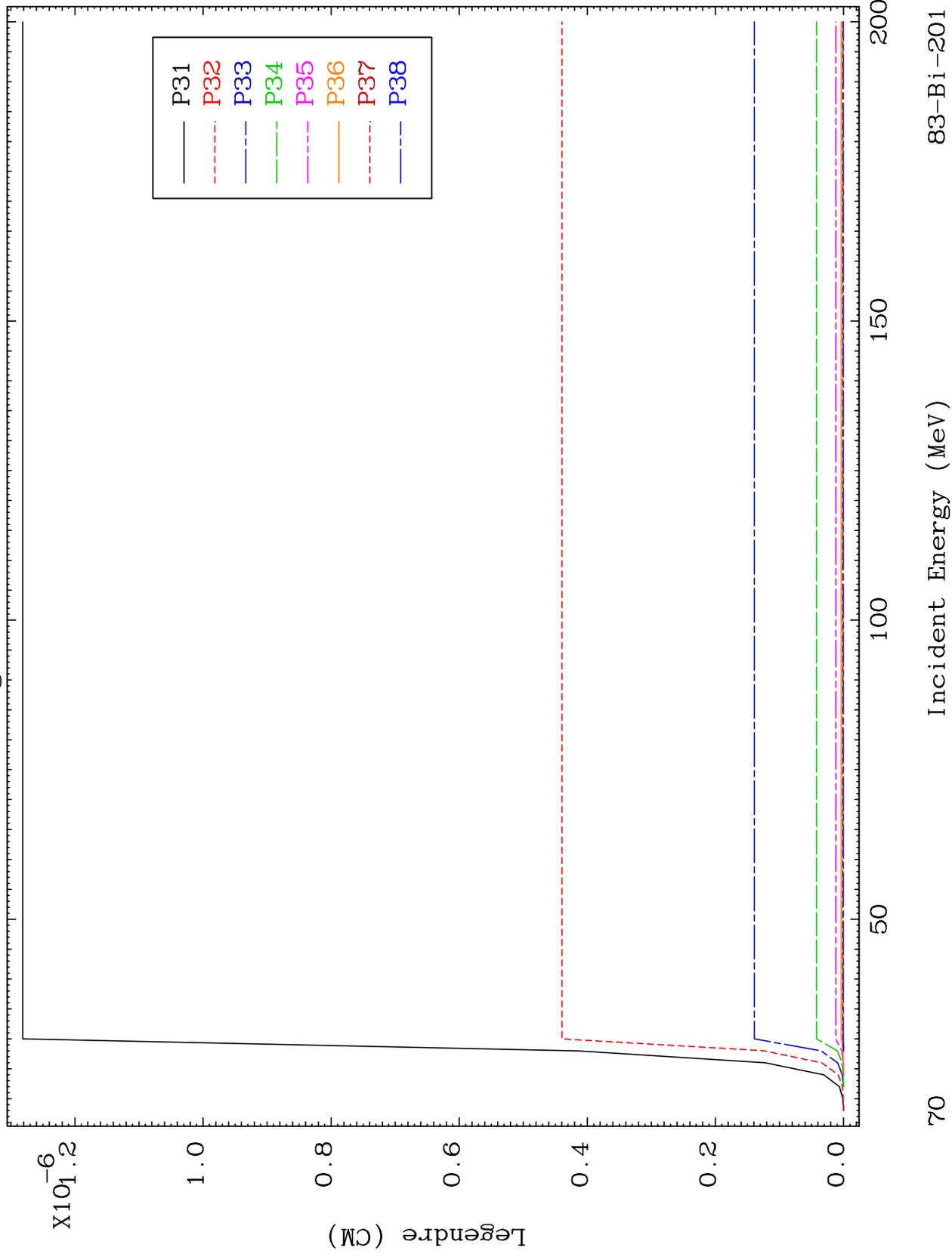
Incident Energy (MeV)

83-Bi-201

MAT 8301

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

83-Bi-201



83-Bi-201

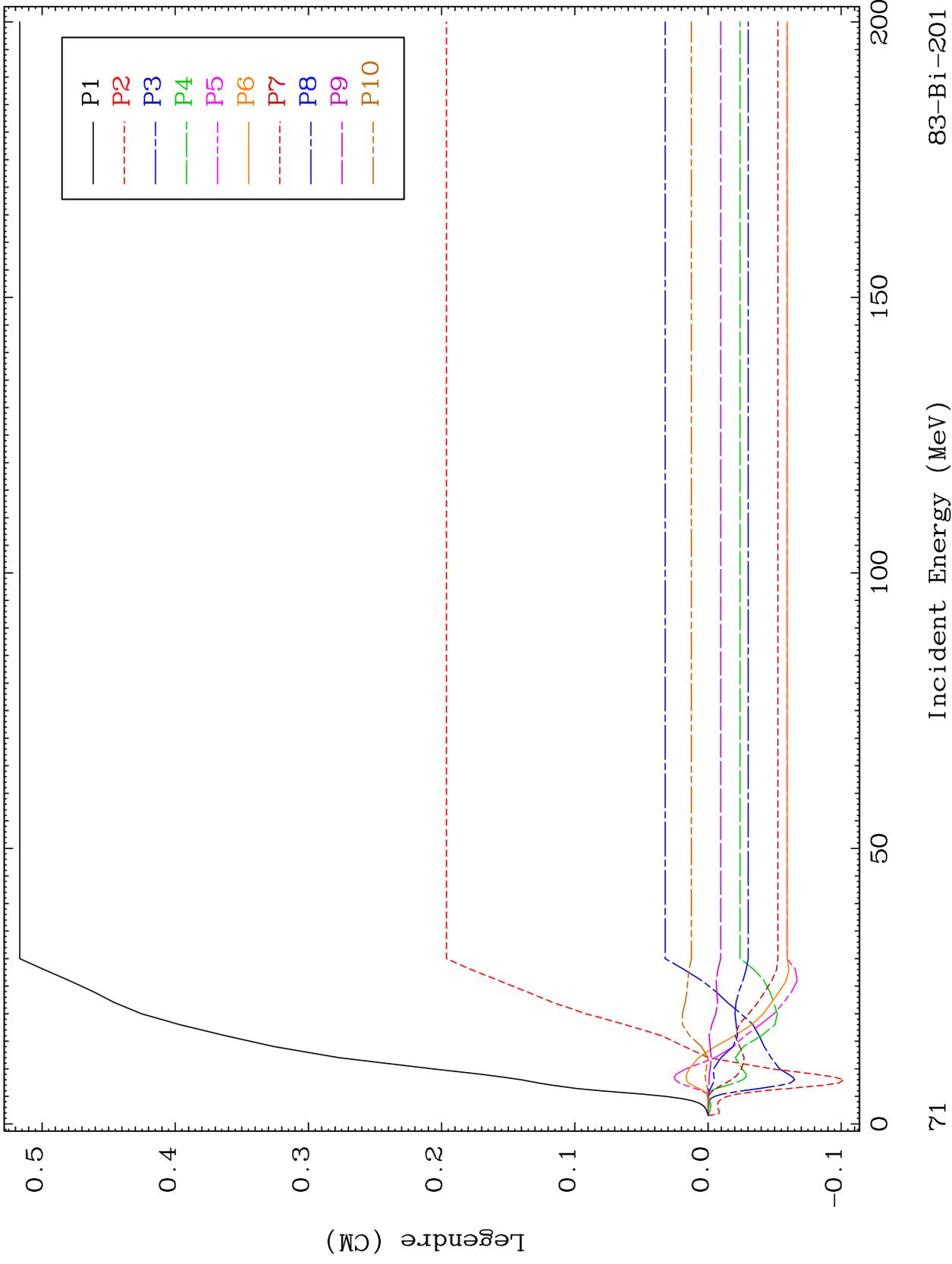
Incident Energy (MeV)

70

MAT 8301

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

83-Bi-201



71

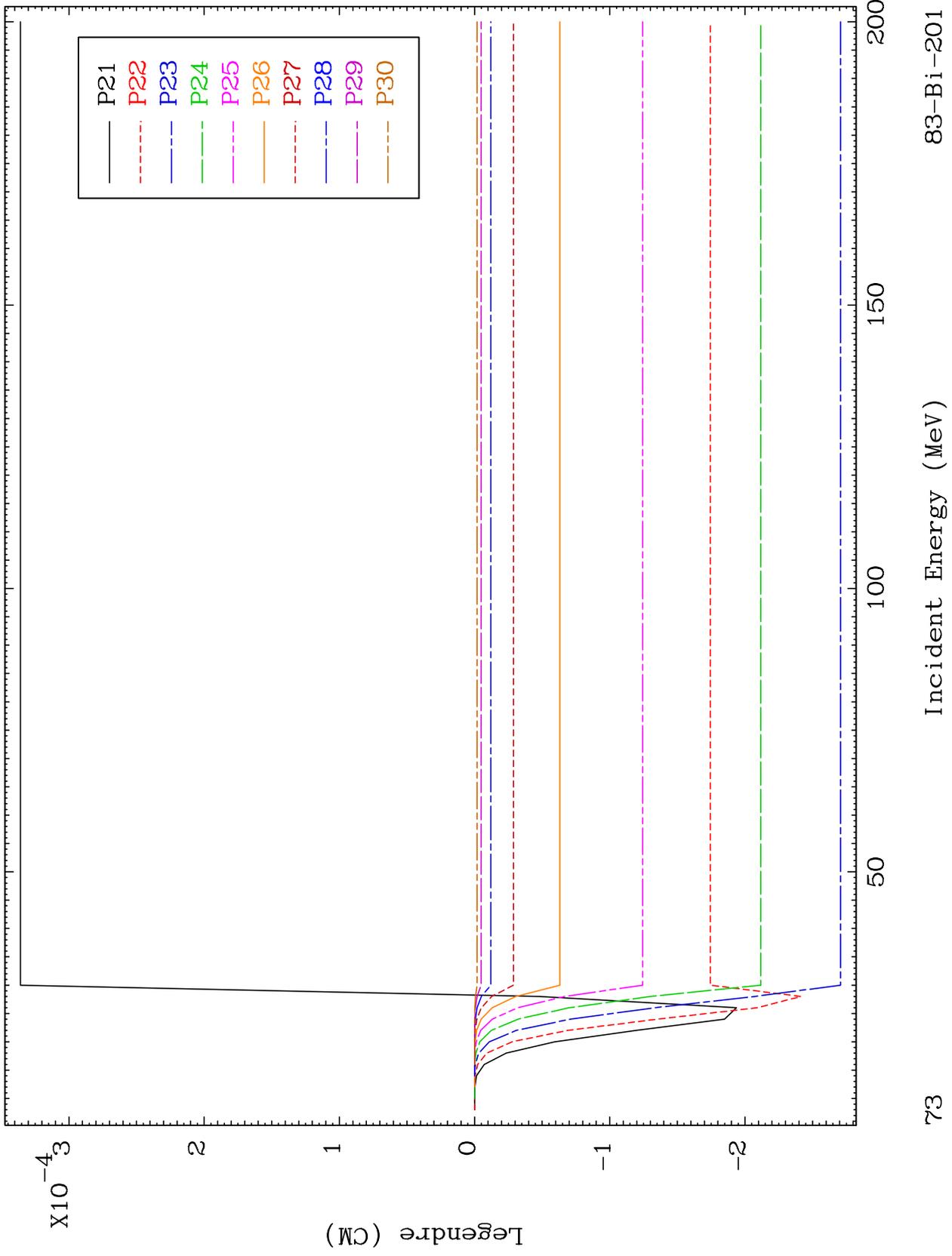
Incident Energy (MeV)

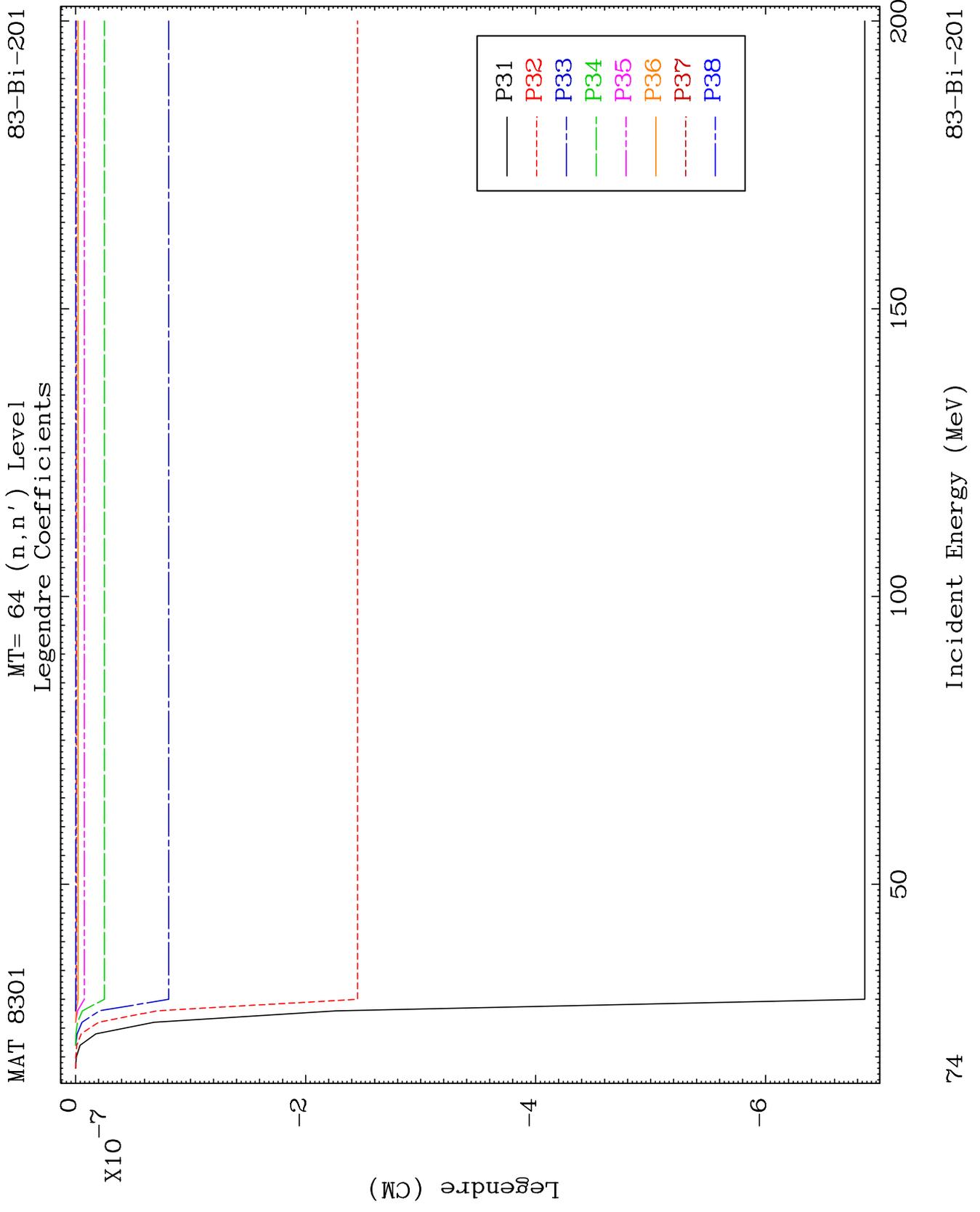
83-Bi-201

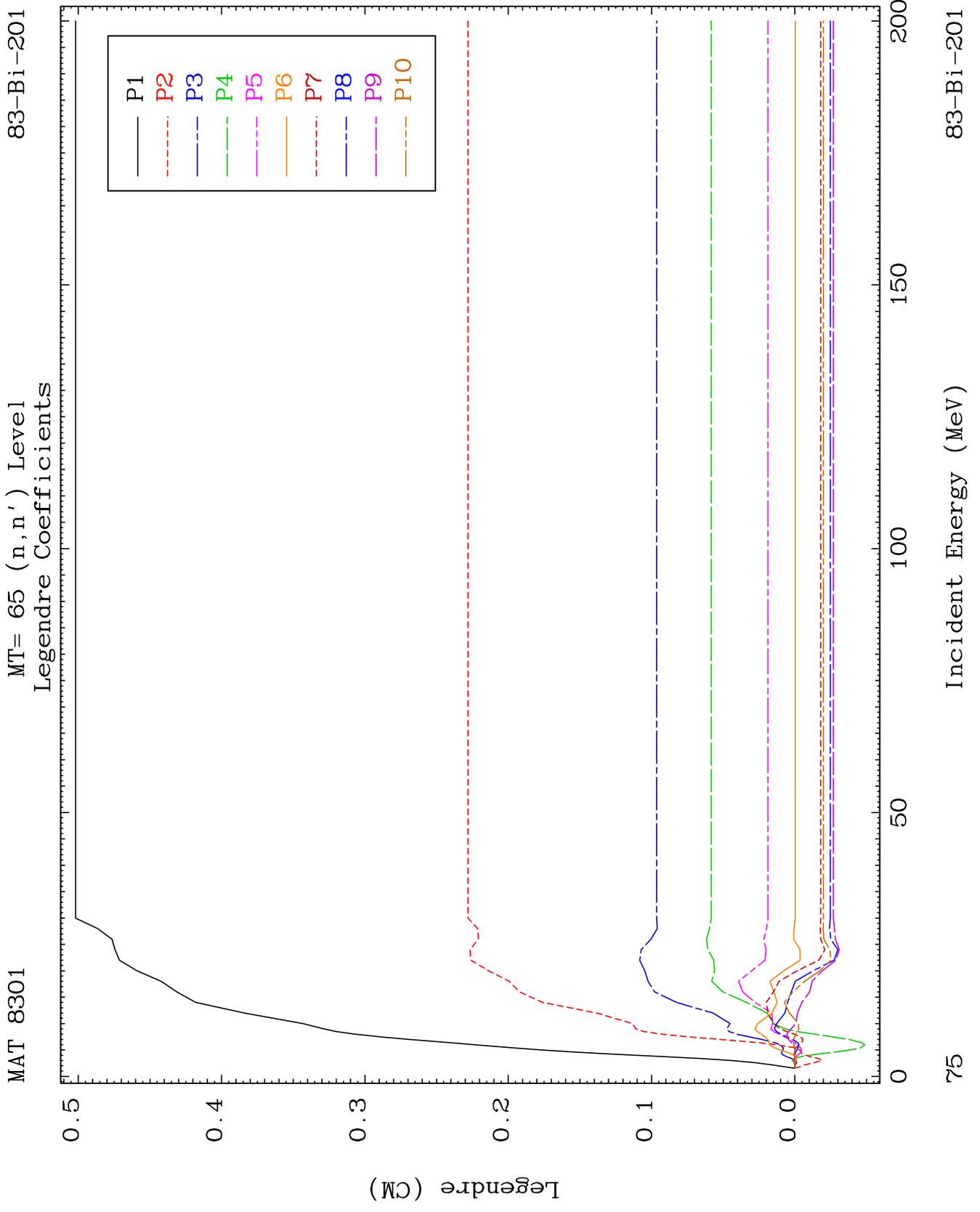
MAT 8301

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

83-Bi-201



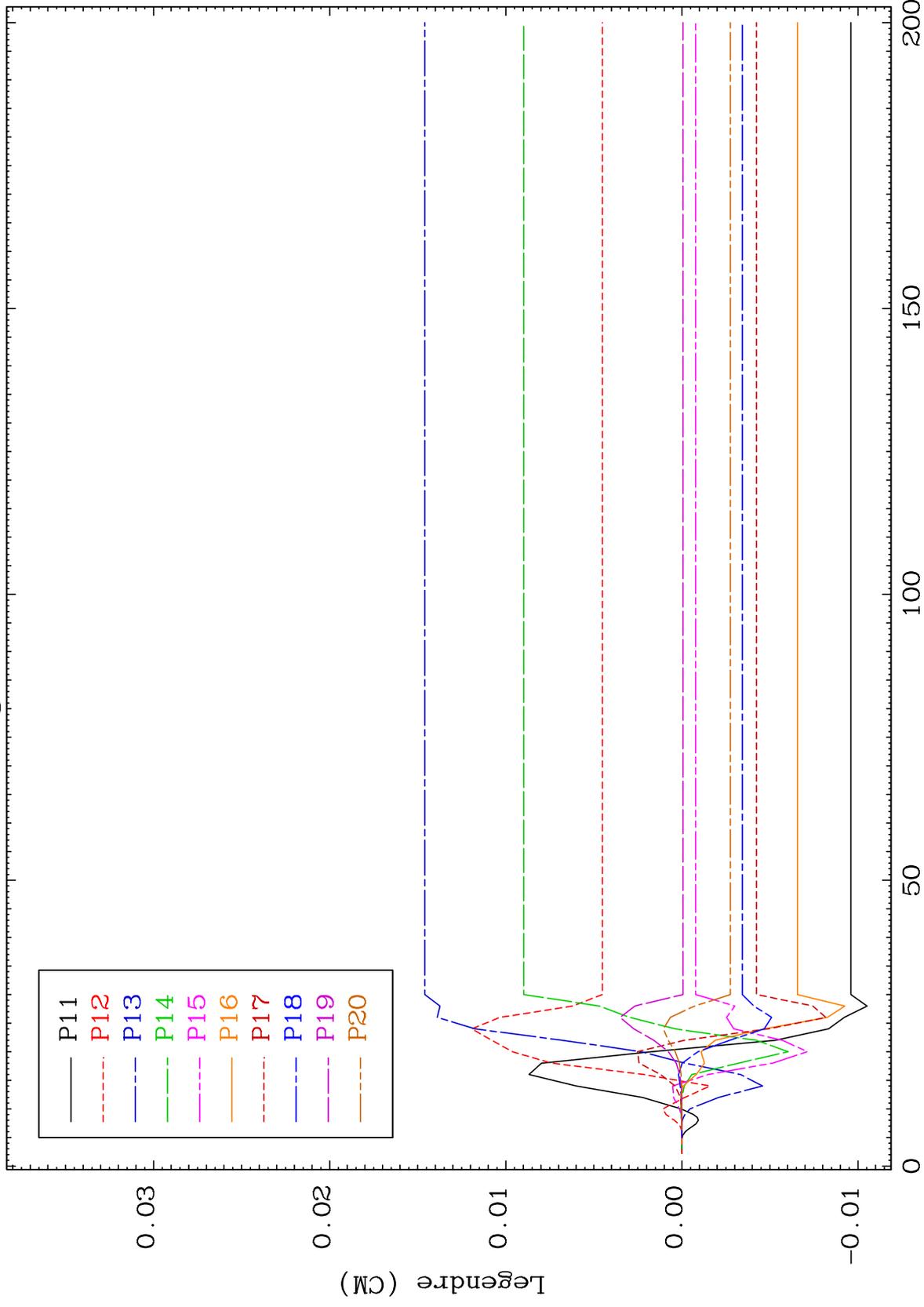




MAT 8301

83-Bi-201

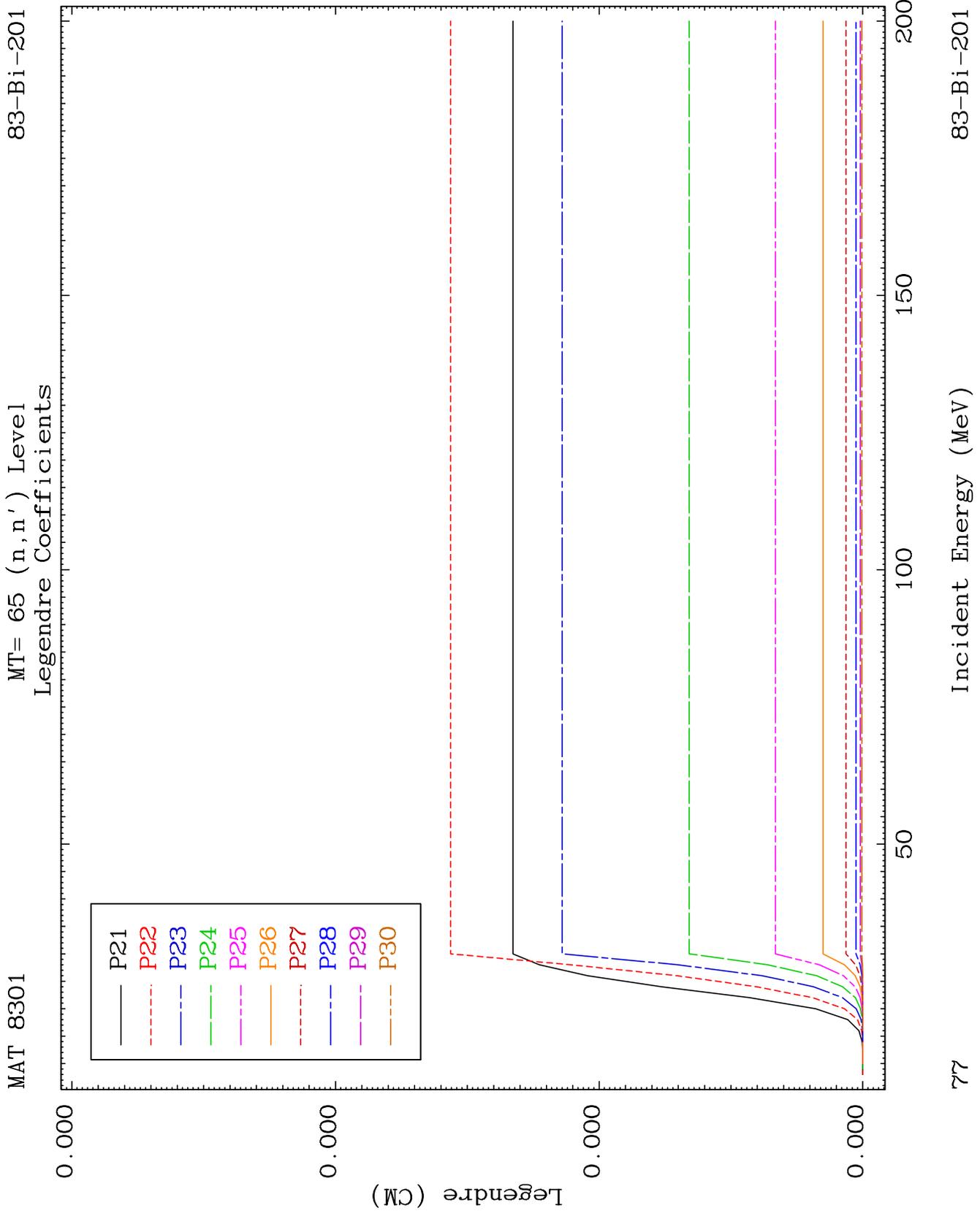
MT= 65 (n,n') Level
Legendre Coefficients



76

Incident Energy (MeV)

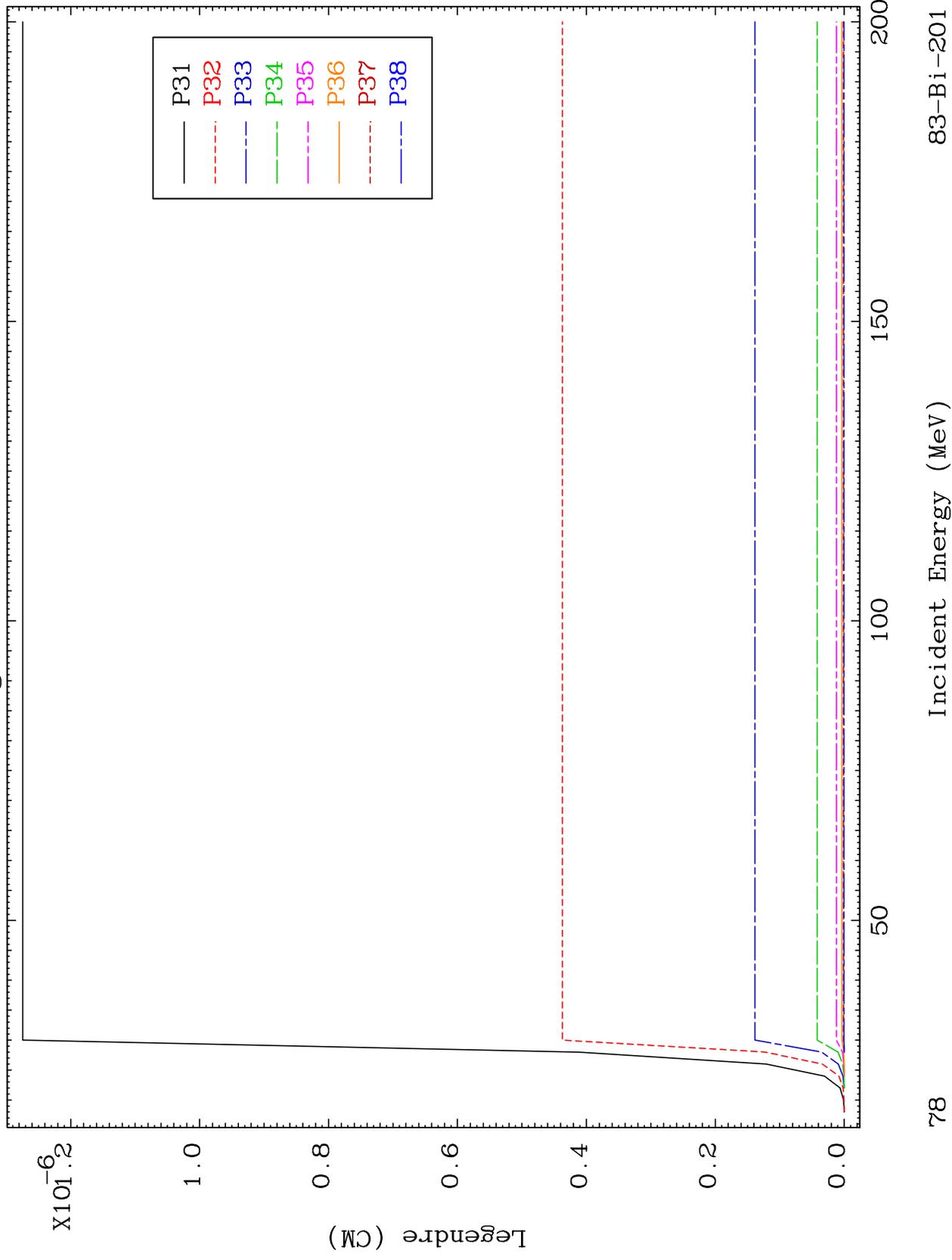
83-Bi-201



MAT 8301

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

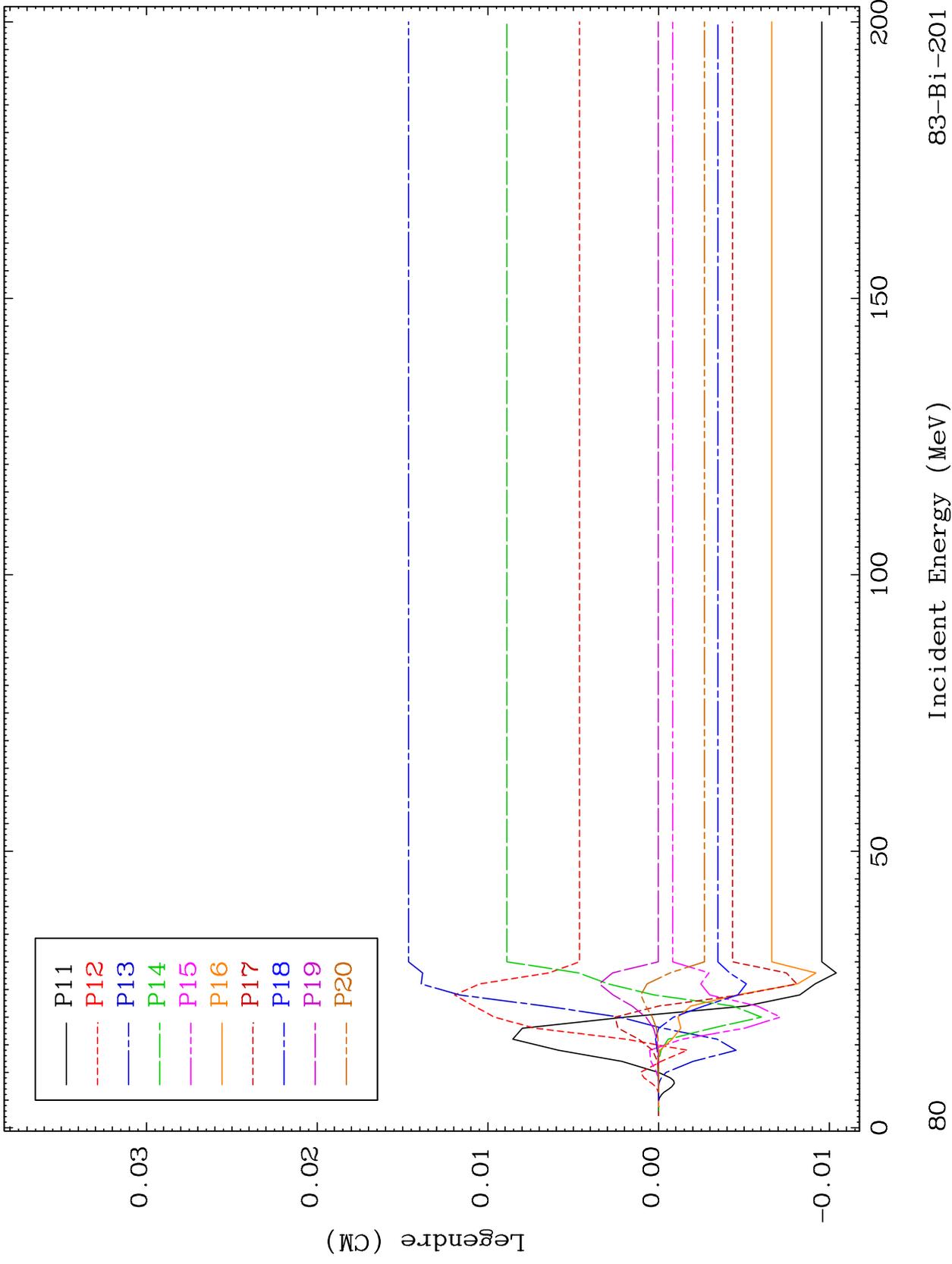
83-Bi-201

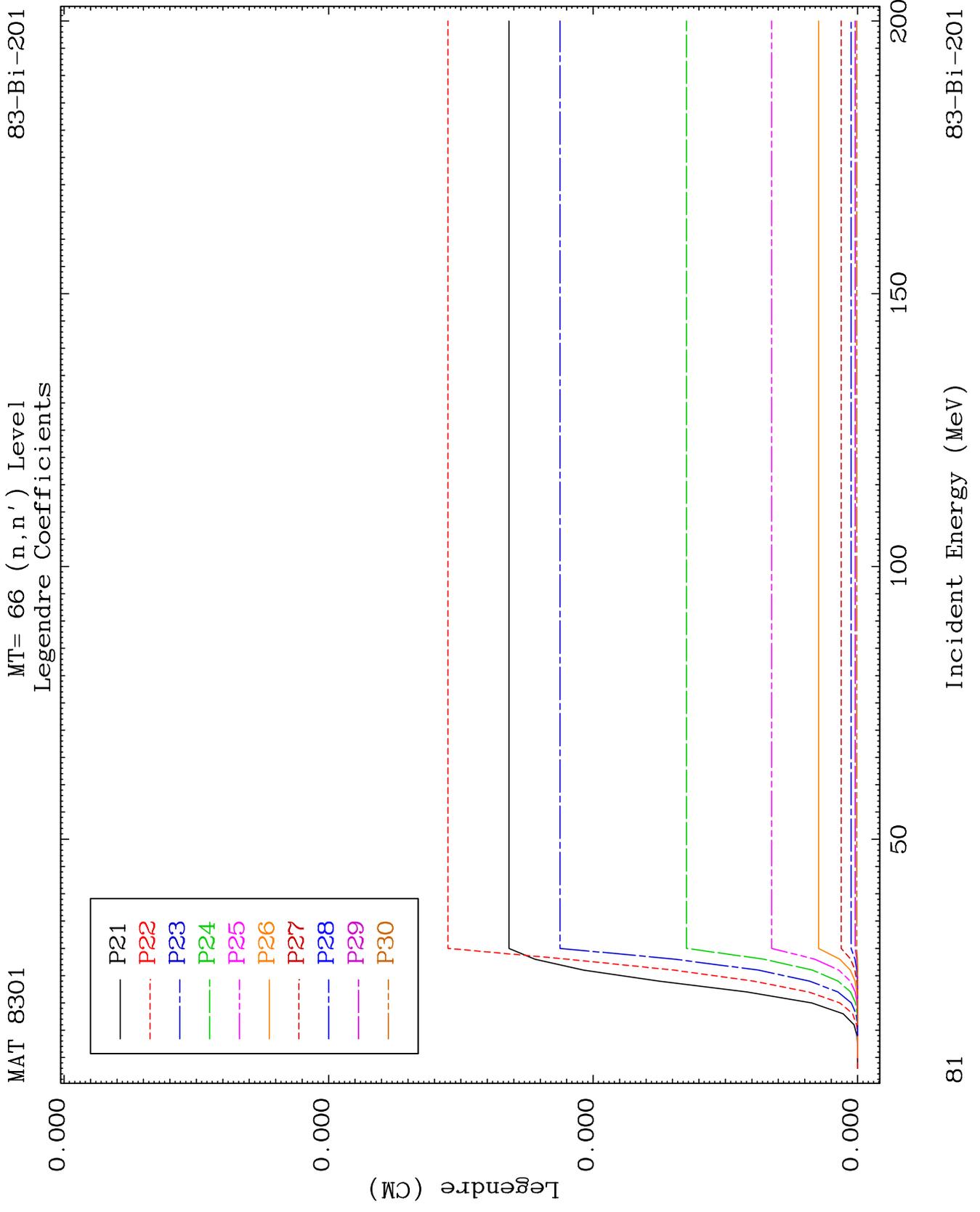


MAT 8301

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

83-Bi-201

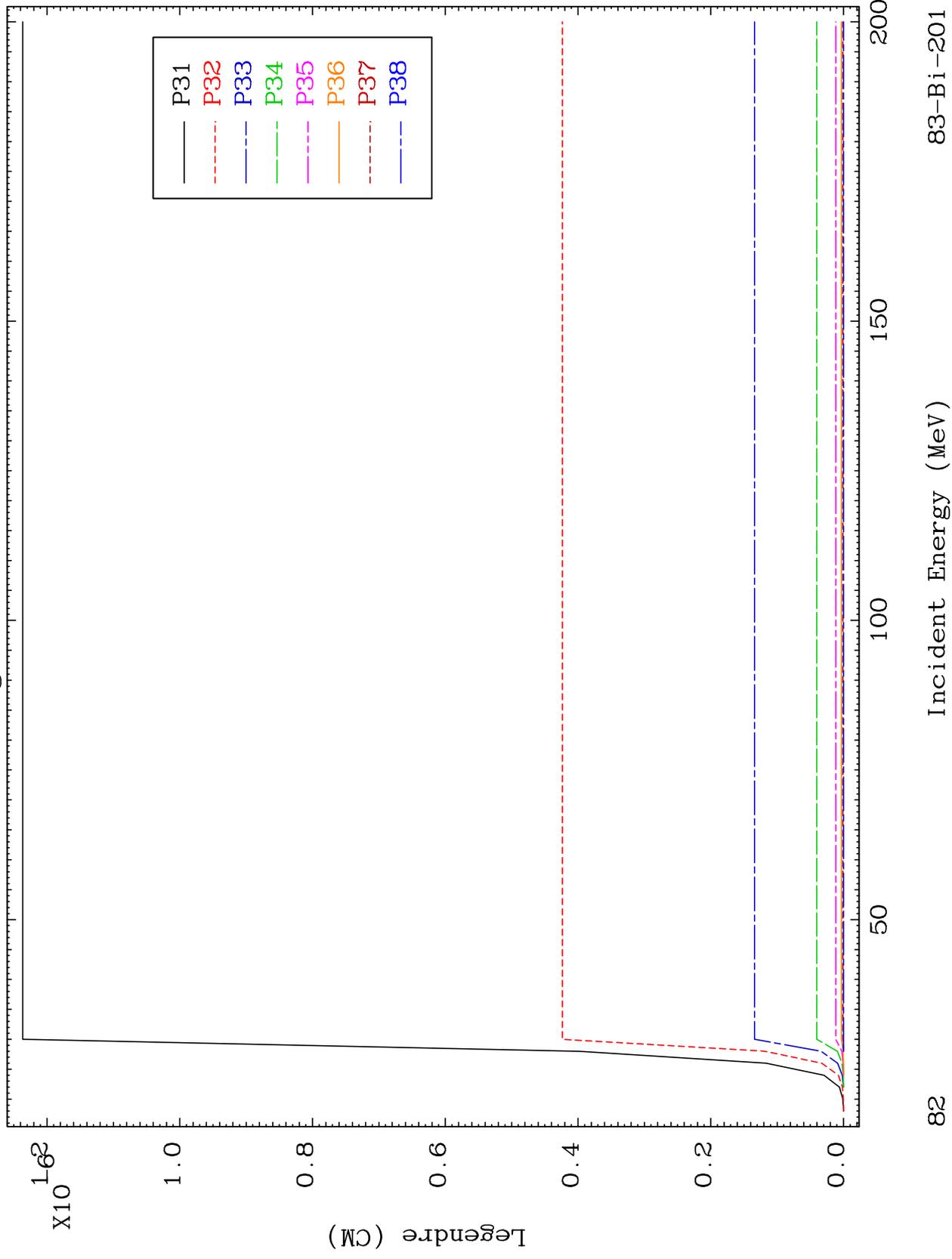




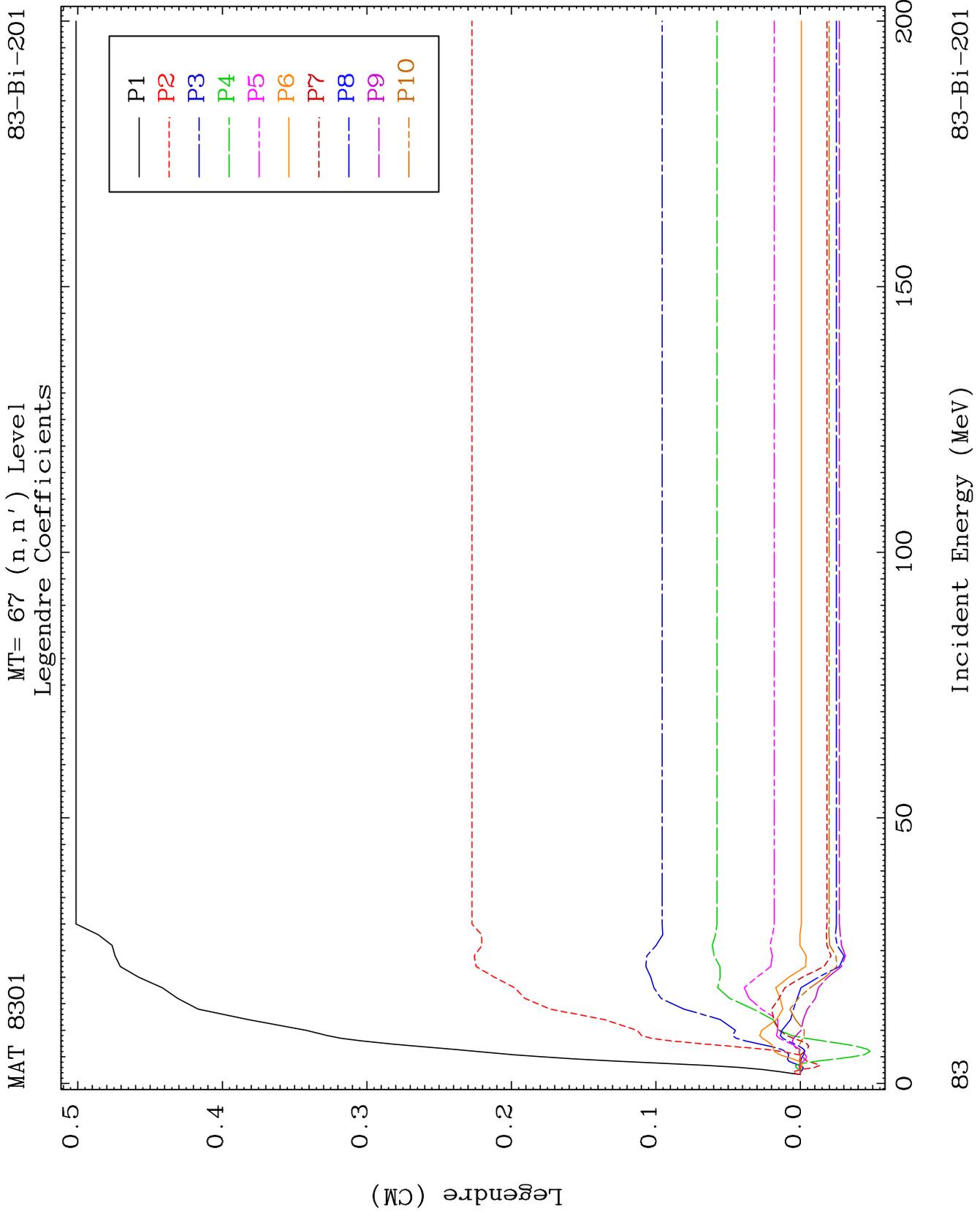
MAT 8301

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

83-Bi-201



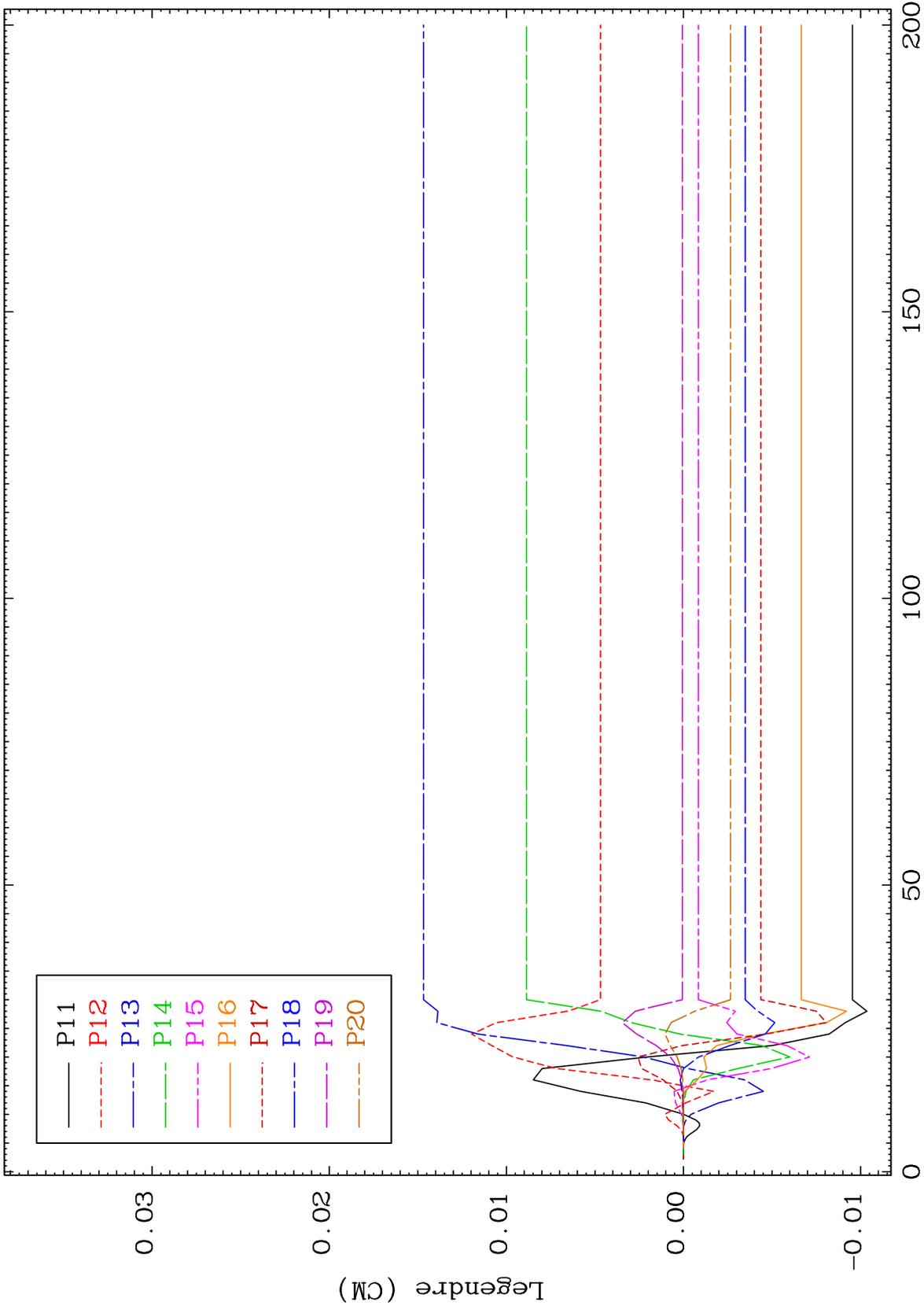
82



MAT 8301

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

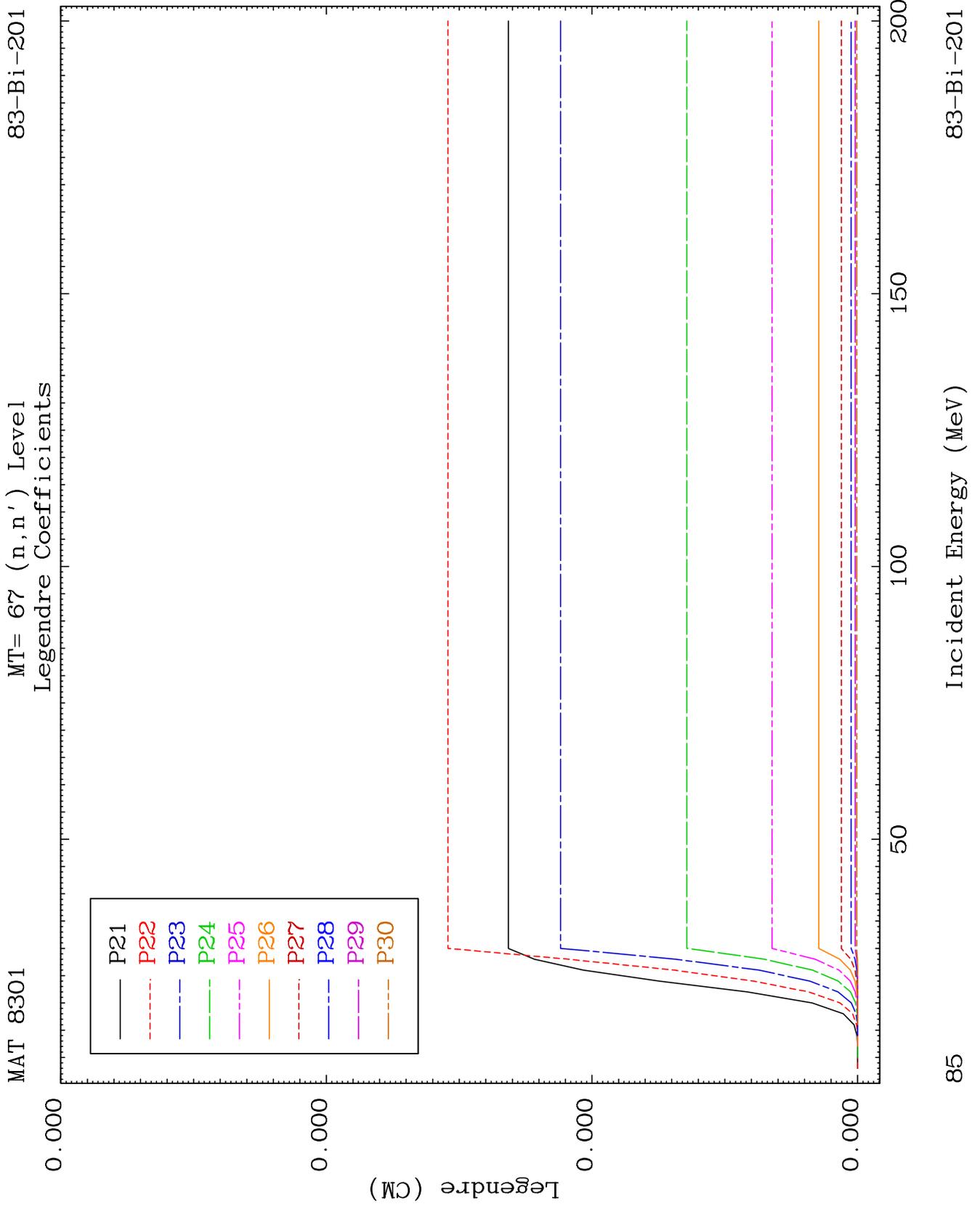
83-Bi-201



84

Incident Energy (MeV)

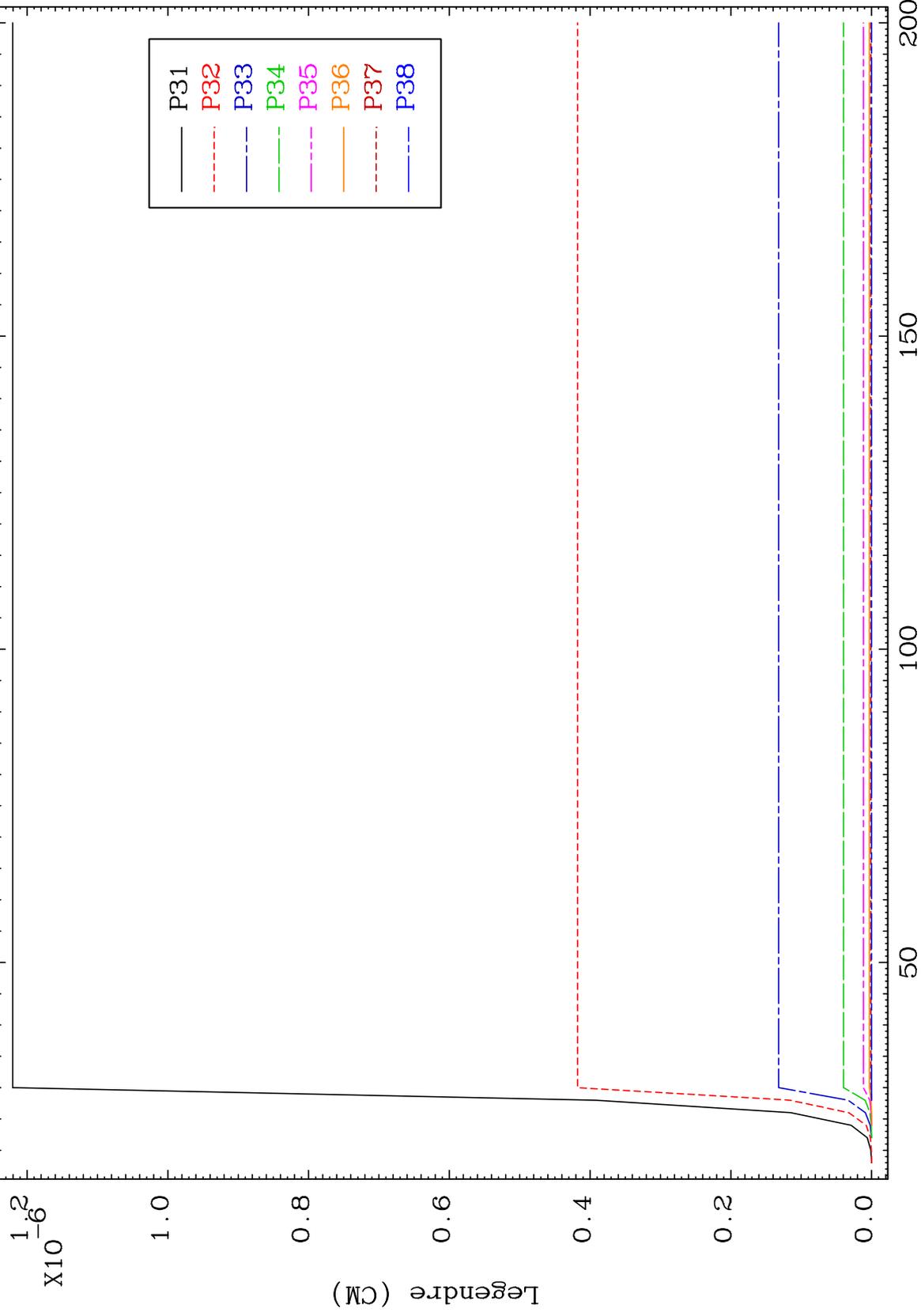
83-Bi-201



MAT 8301

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

83-Bi-201



86

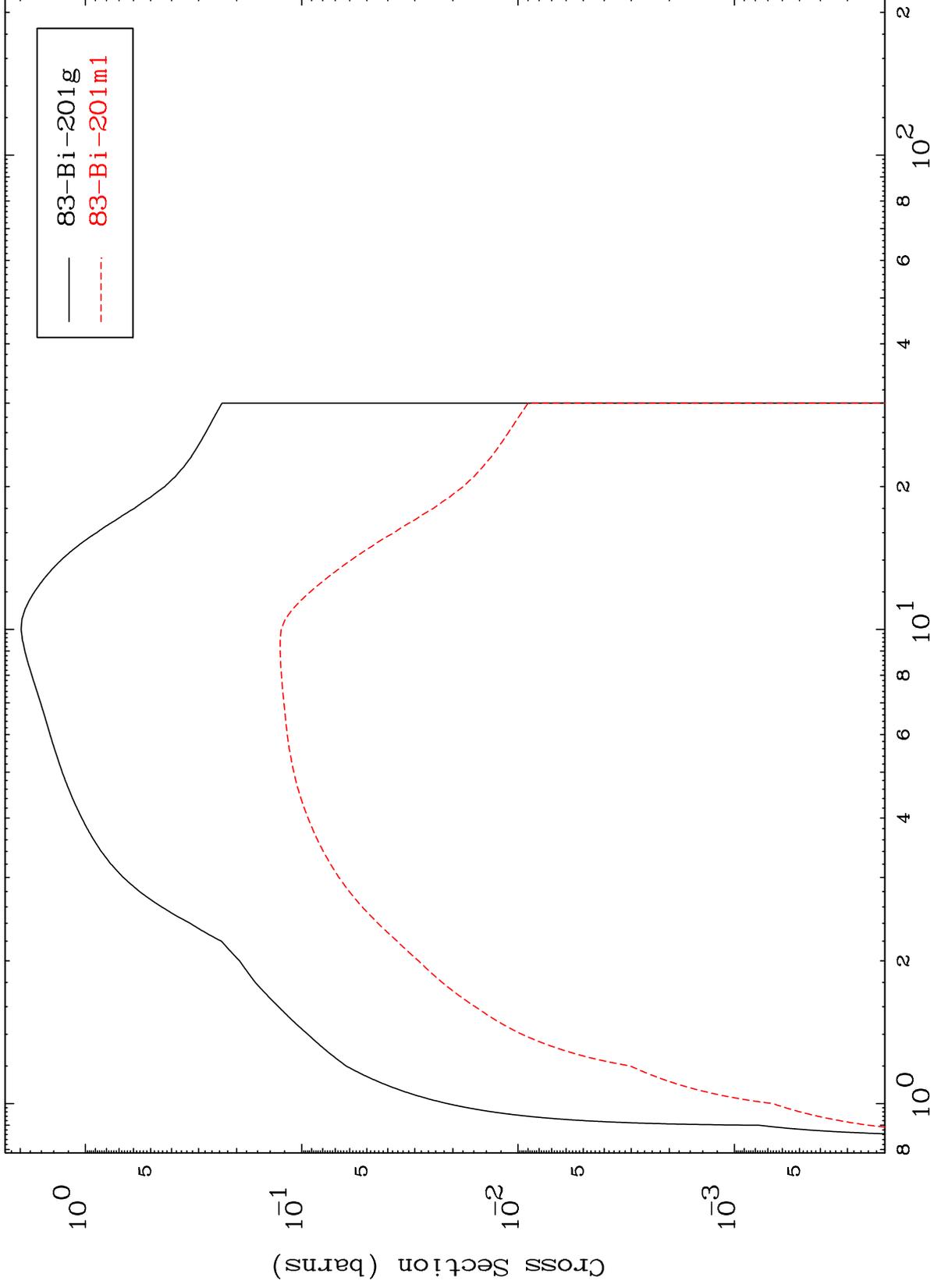
Incident Energy (MeV)

83-Bi-201

MAT 8301

83-Bi-201

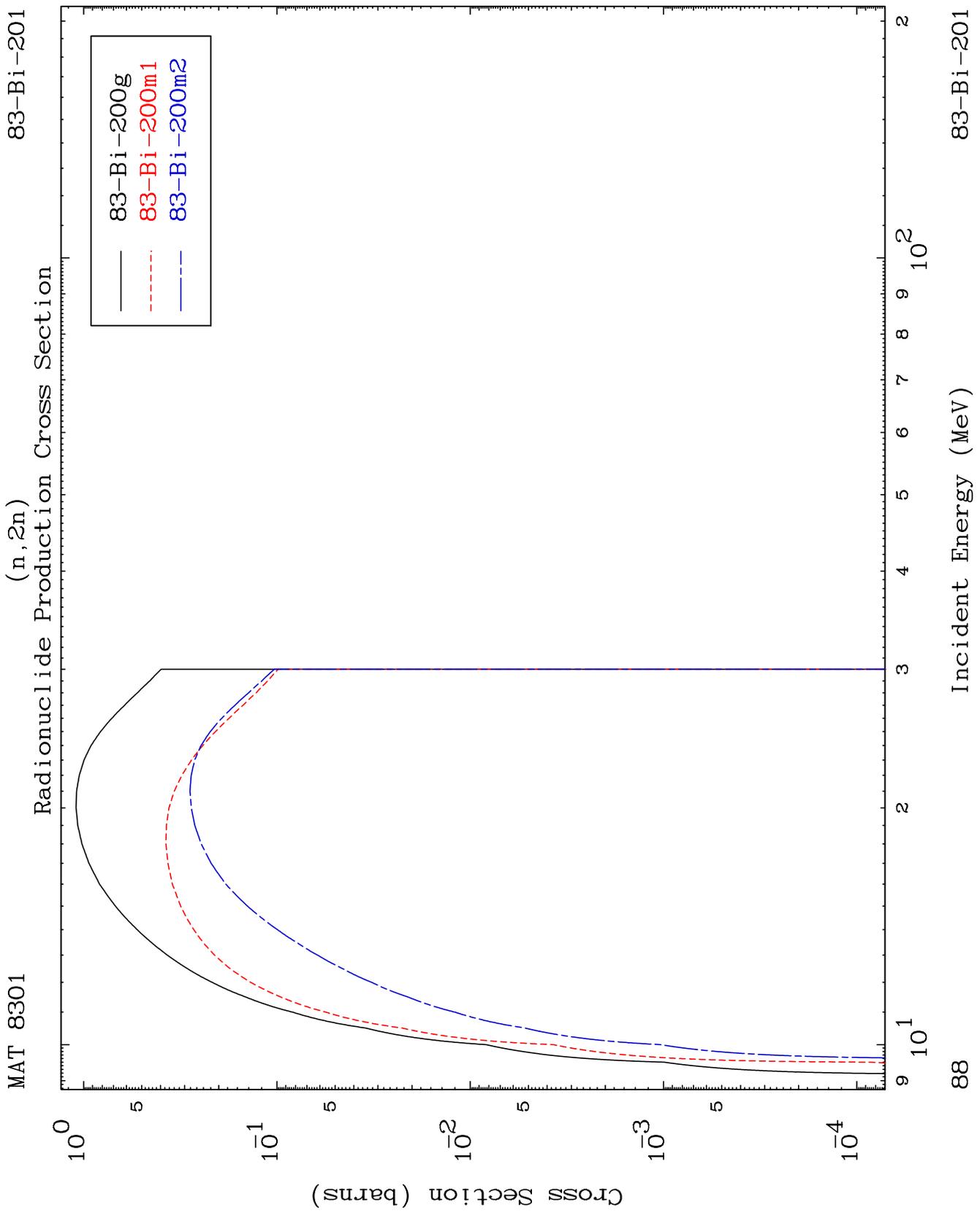
Inelastic
Radionuclide Production Cross Section



87

Incident Energy (MeV)

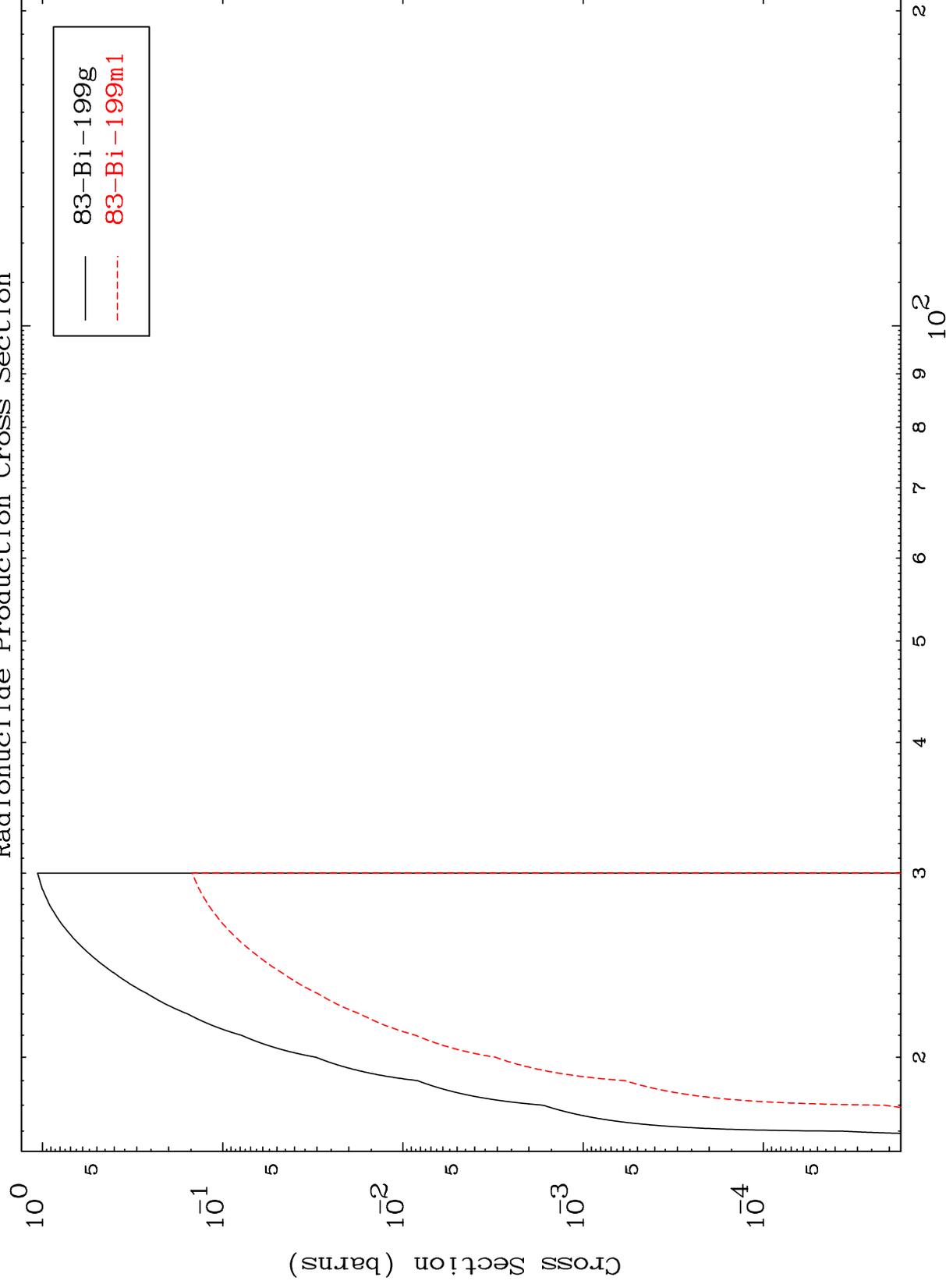
83-Bi-201



MAT 8301

83-Bi-201

(n,3n)
Radionuclide Production Cross Section



89

Incident Energy (MeV)

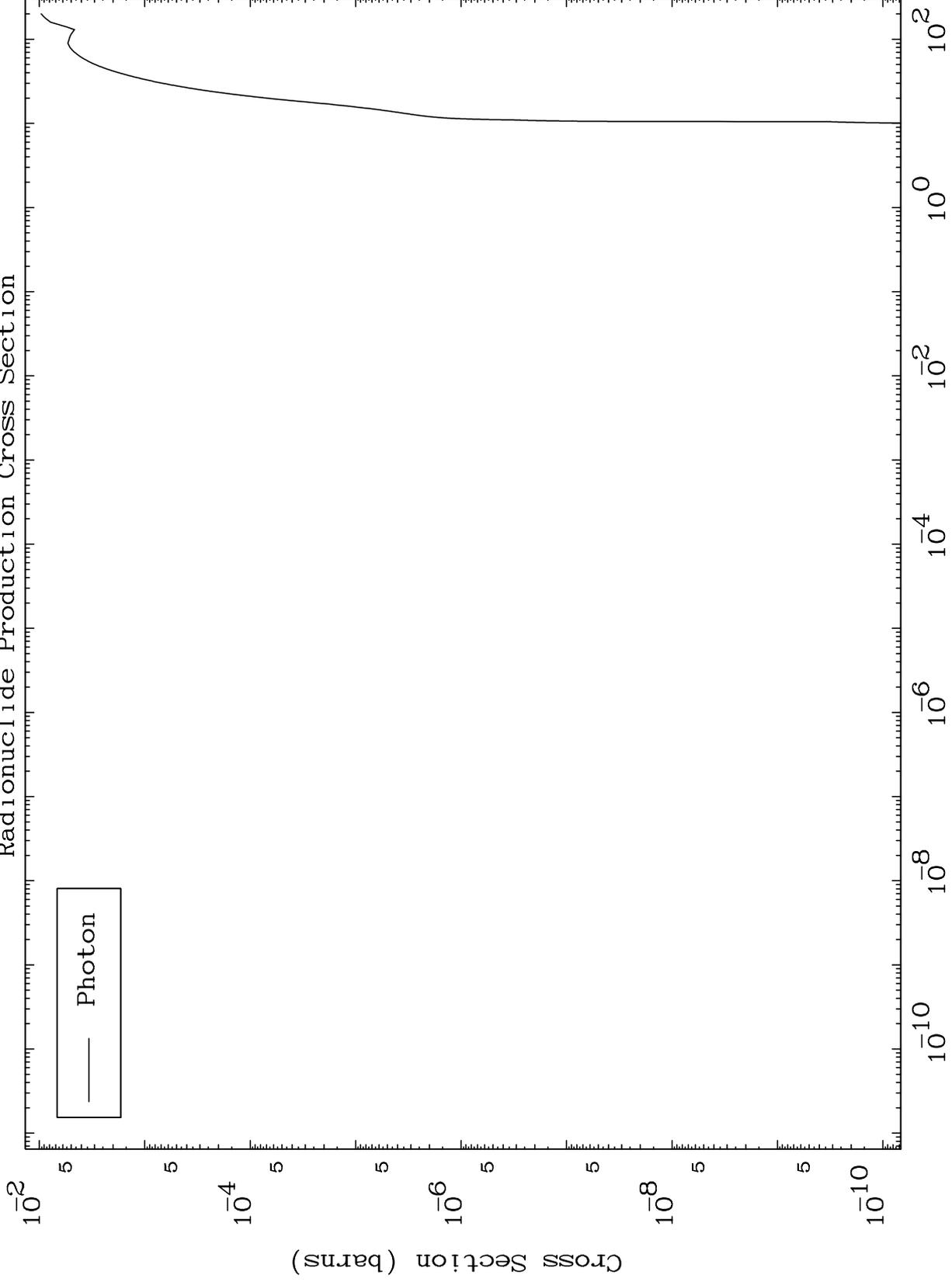
83-Bi-201

MAT 8301

Fission

83-Bi-201

Radionuclide Production Cross Section



90

Incident Energy (MeV)

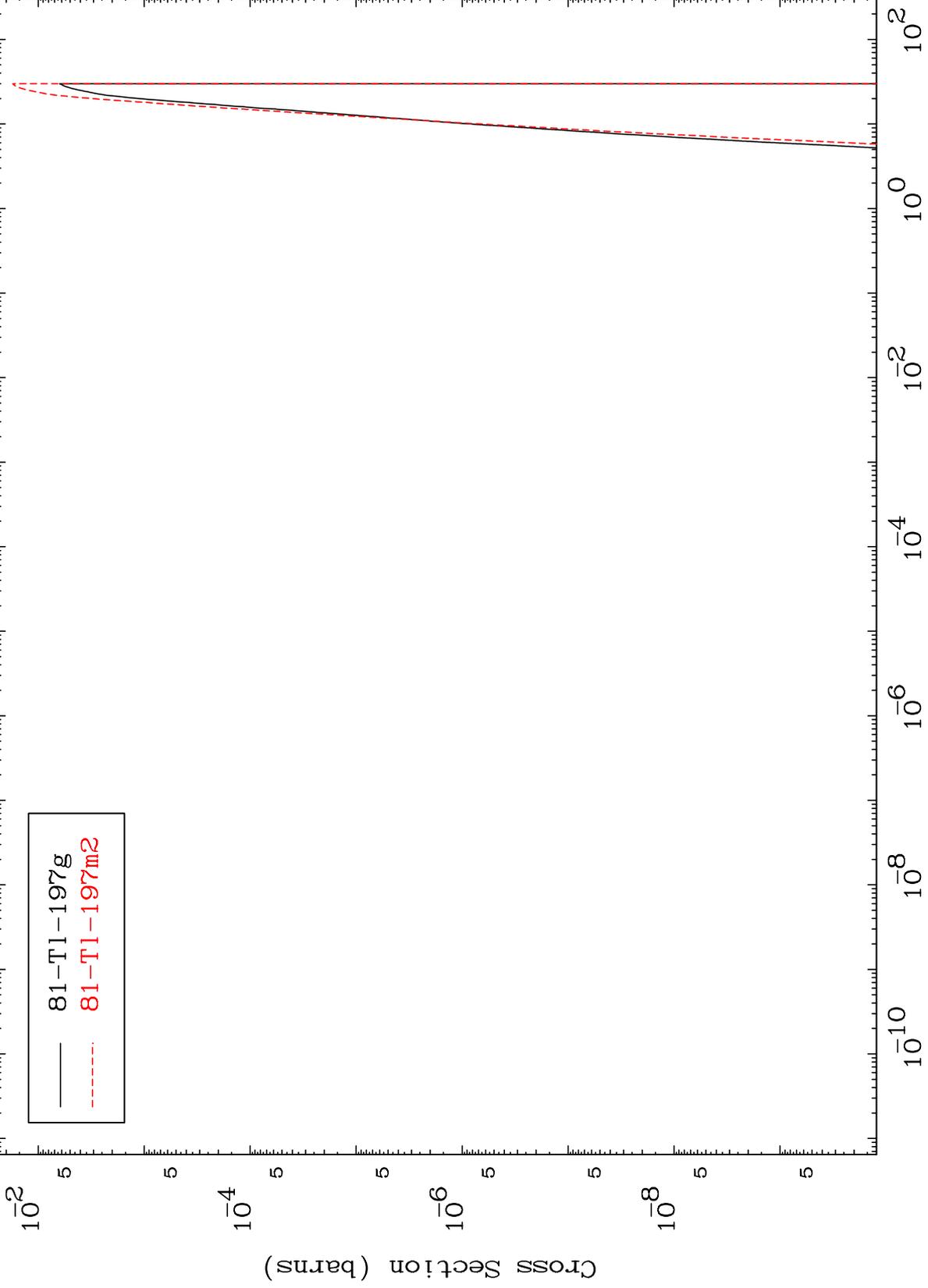
83-Bi-201

MAT 8301

$(n, n') \alpha$

$^{83}\text{Bi}-201$

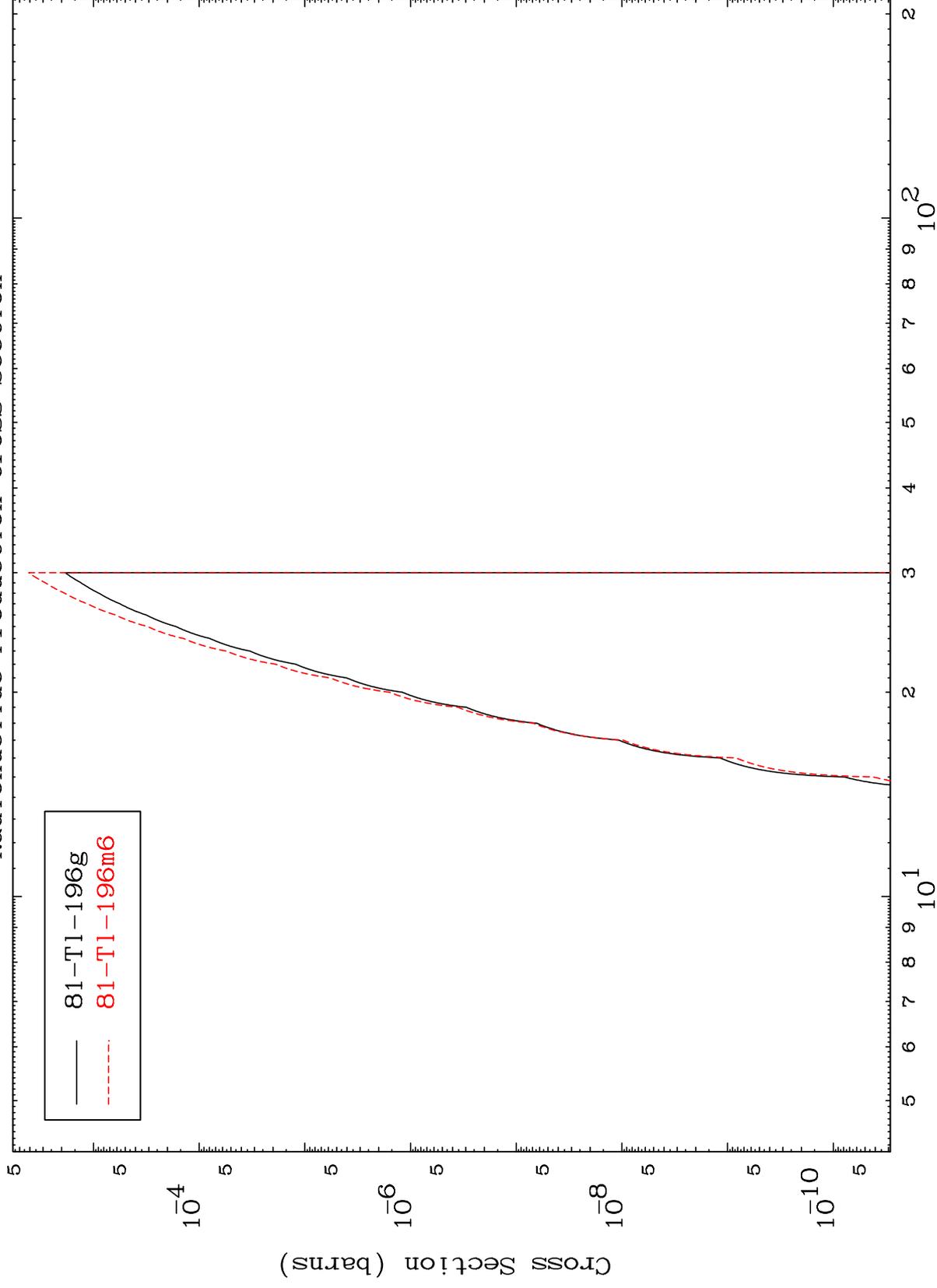
Radionuclide Production Cross Section



MAT 8301

83-Bi-201

(n,2n) α
Radionuclide Production Cross Section



92

Incident Energy (MeV)

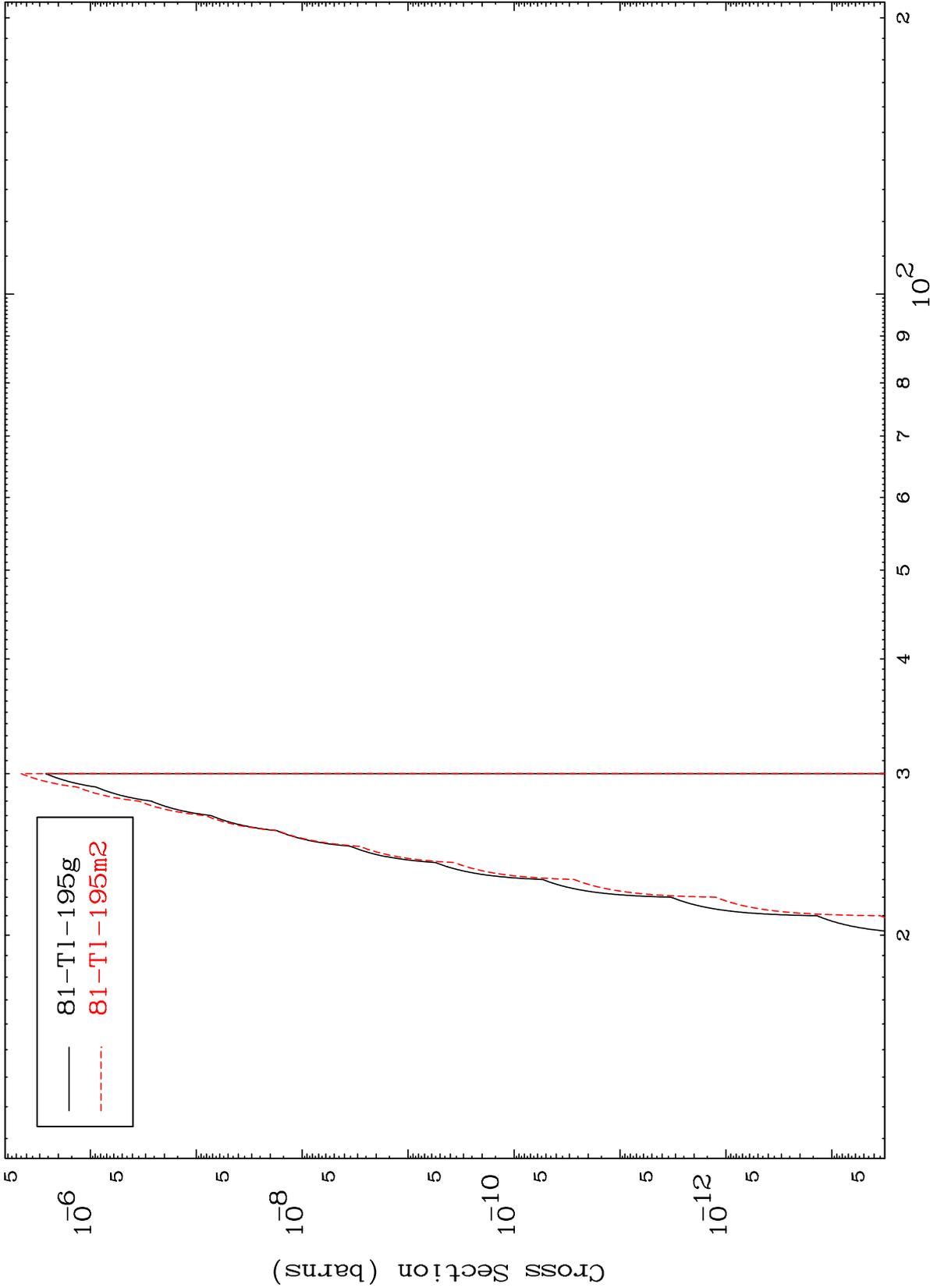
83-Bi-201

MAT 8301

(n,3n) α

83-Bi-201

Radionuclide Production Cross Section



93

Incident Energy (MeV)

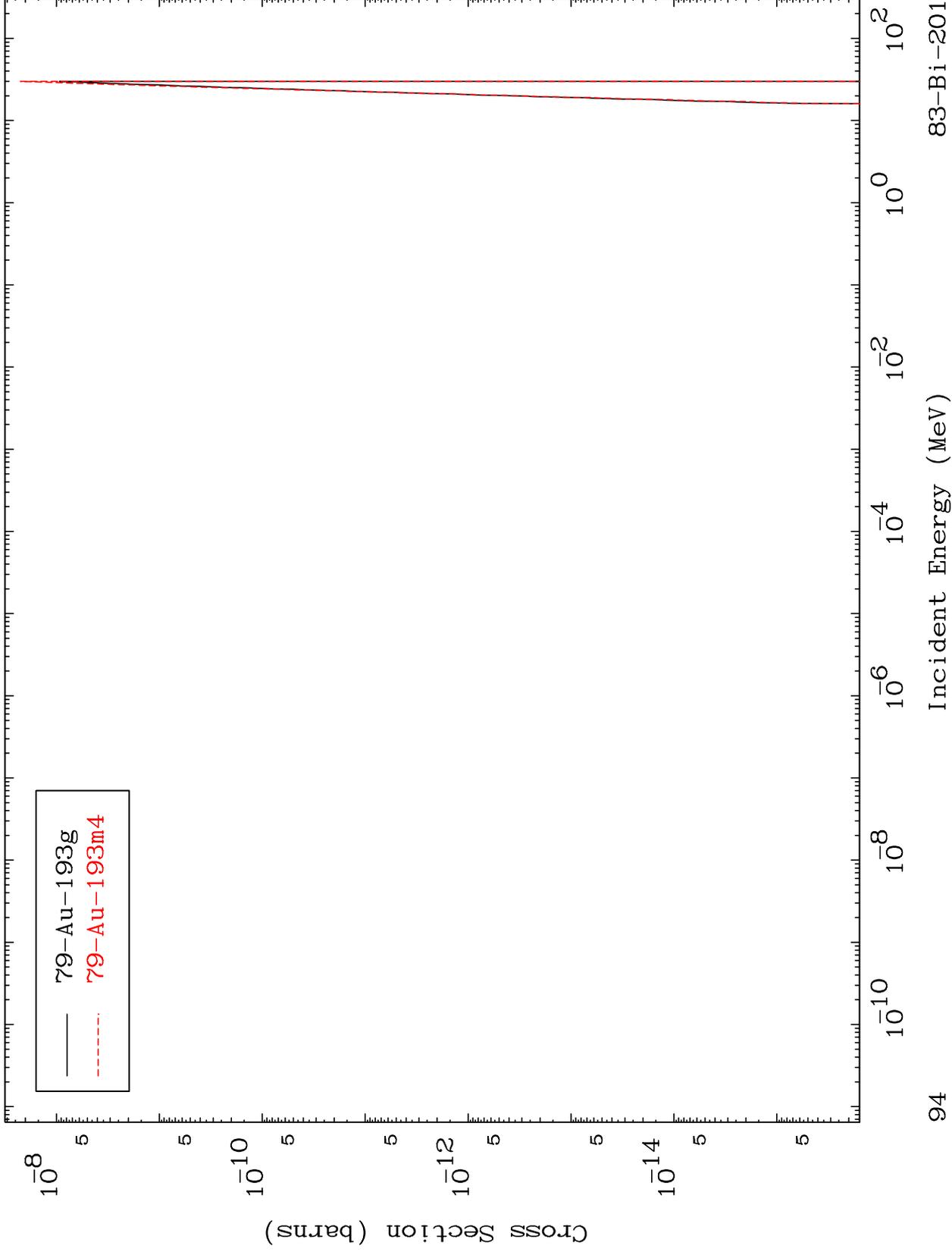
83-Bi-201

MAT 8301

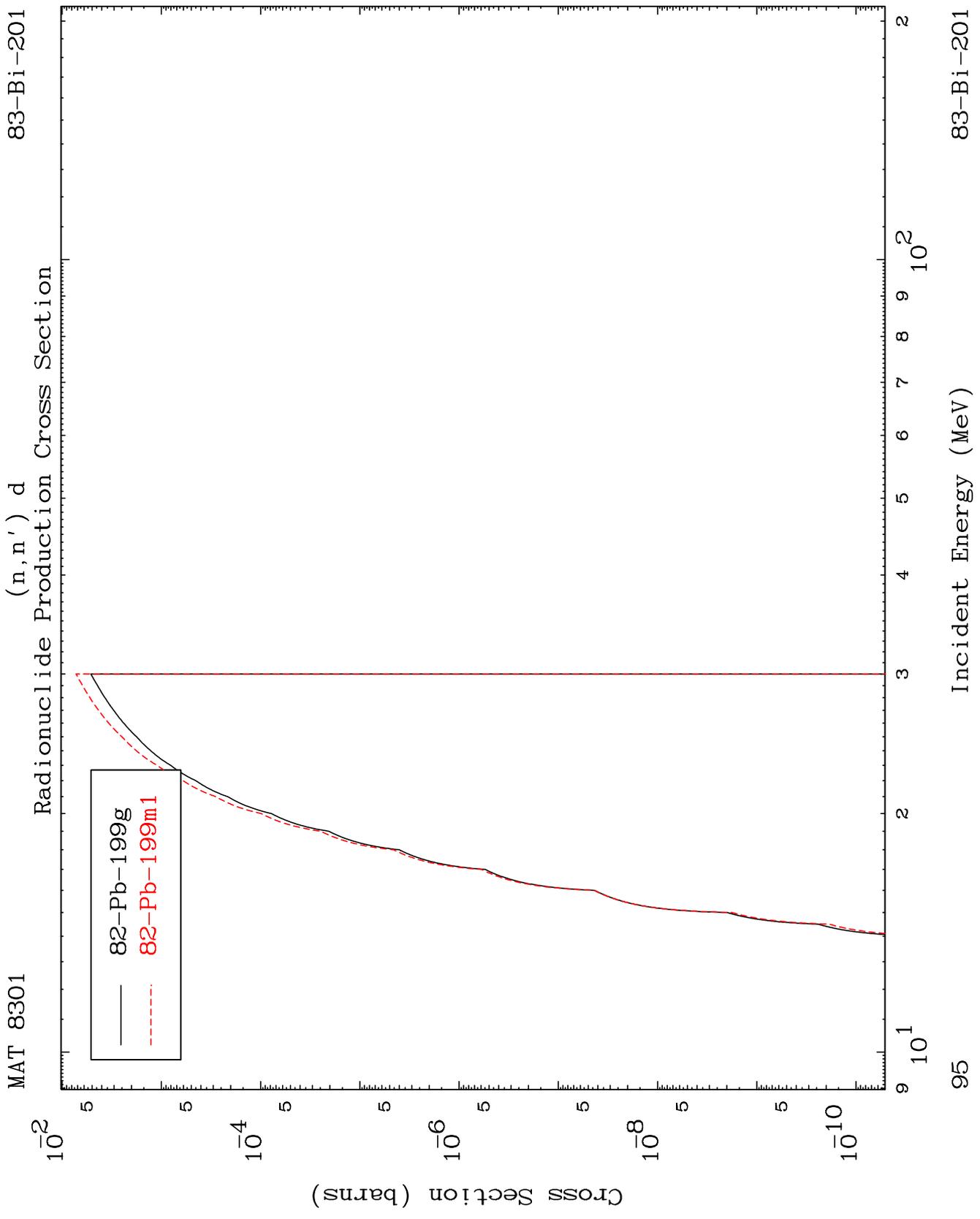
(n,n') 2 α

83-Bi-201

Radionuclide Production Cross Section



94

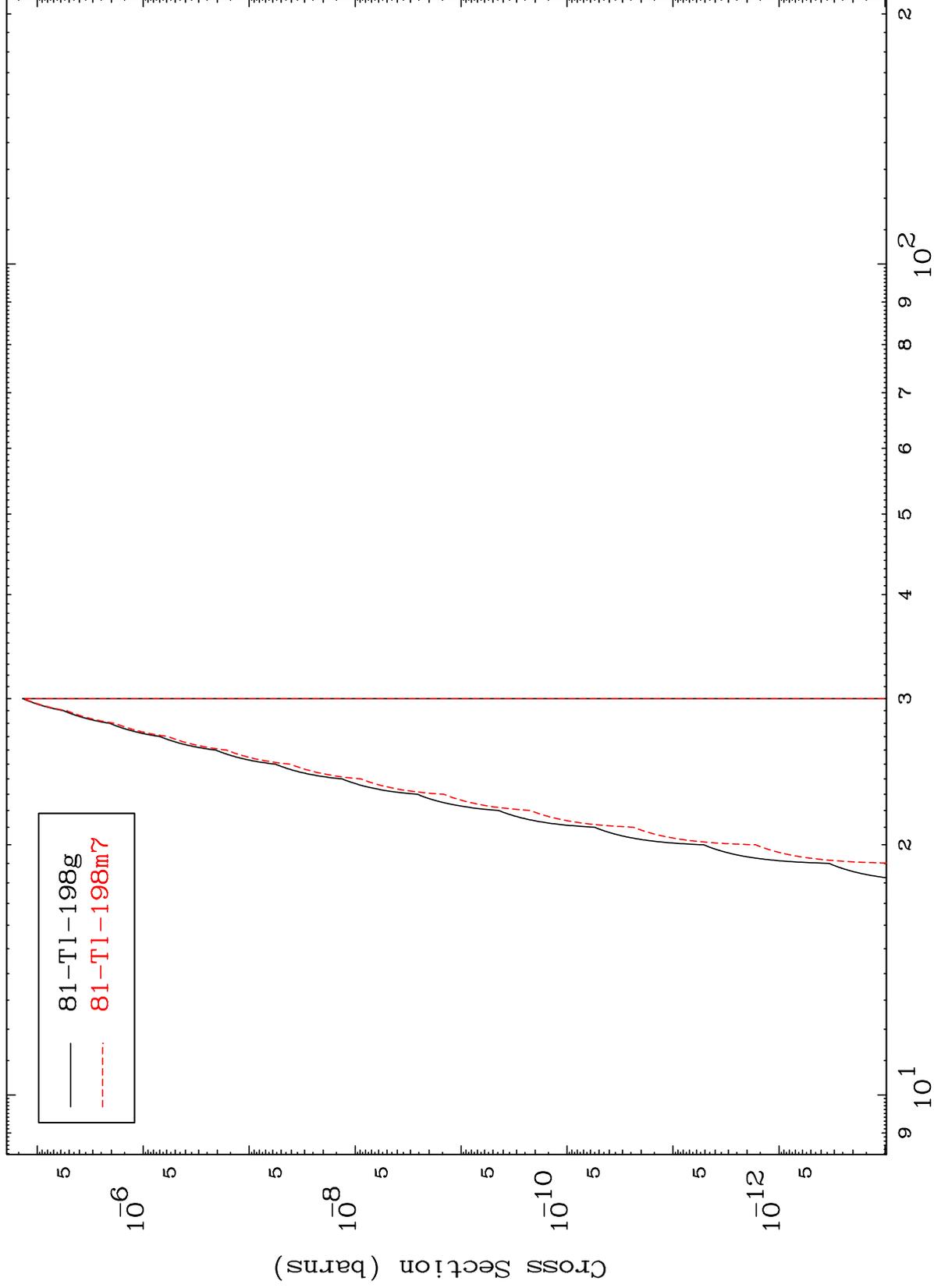


MAT 8301

(n,n') He-3

83-Bi-201

Radionuclide Production Cross Section



96

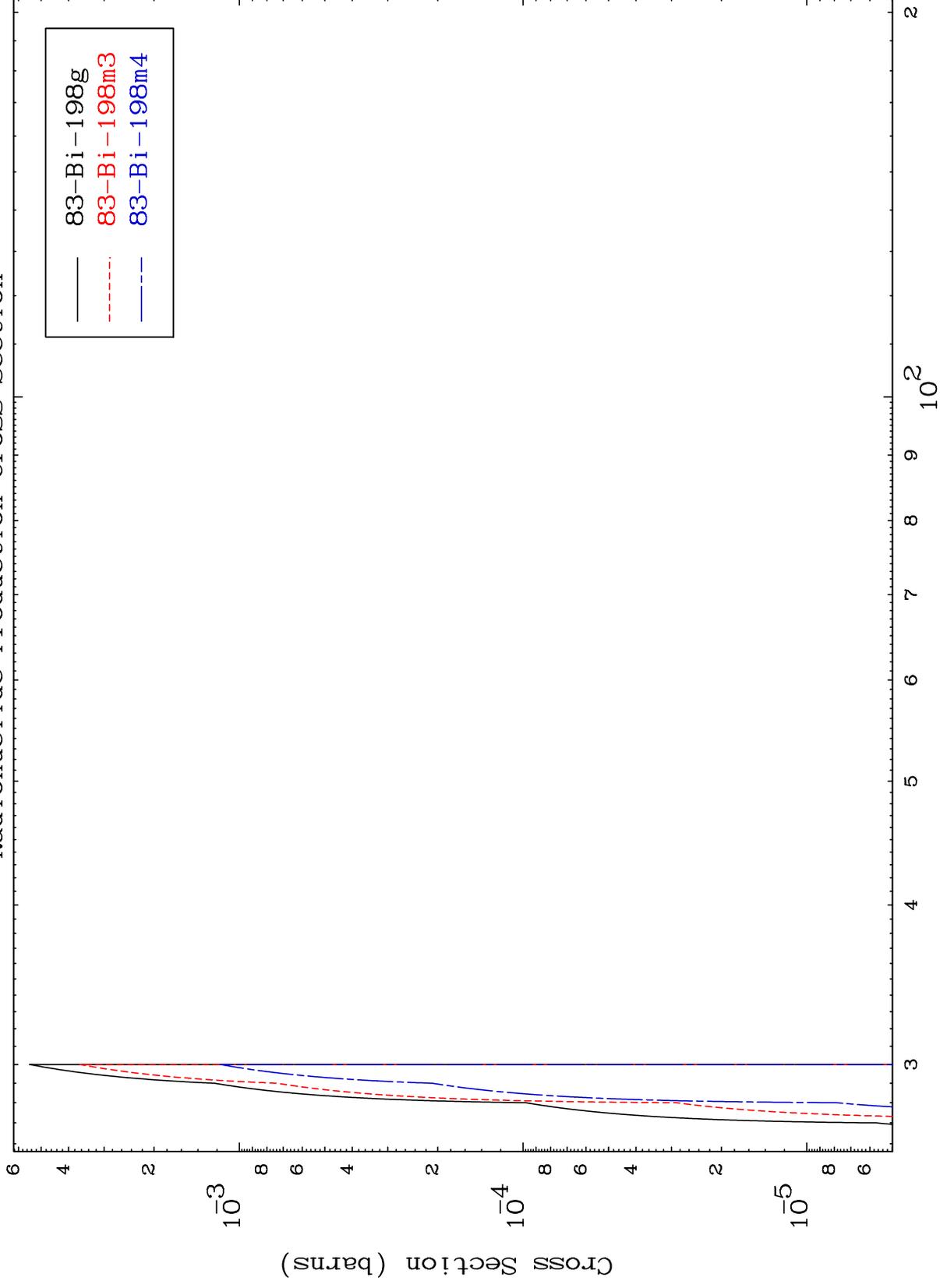
Incident Energy (MeV)

83-Bi-201

MAT 8301

83-Bi-201

(n,4n)
Radionuclide Production Cross Section



97

83-Bi-201

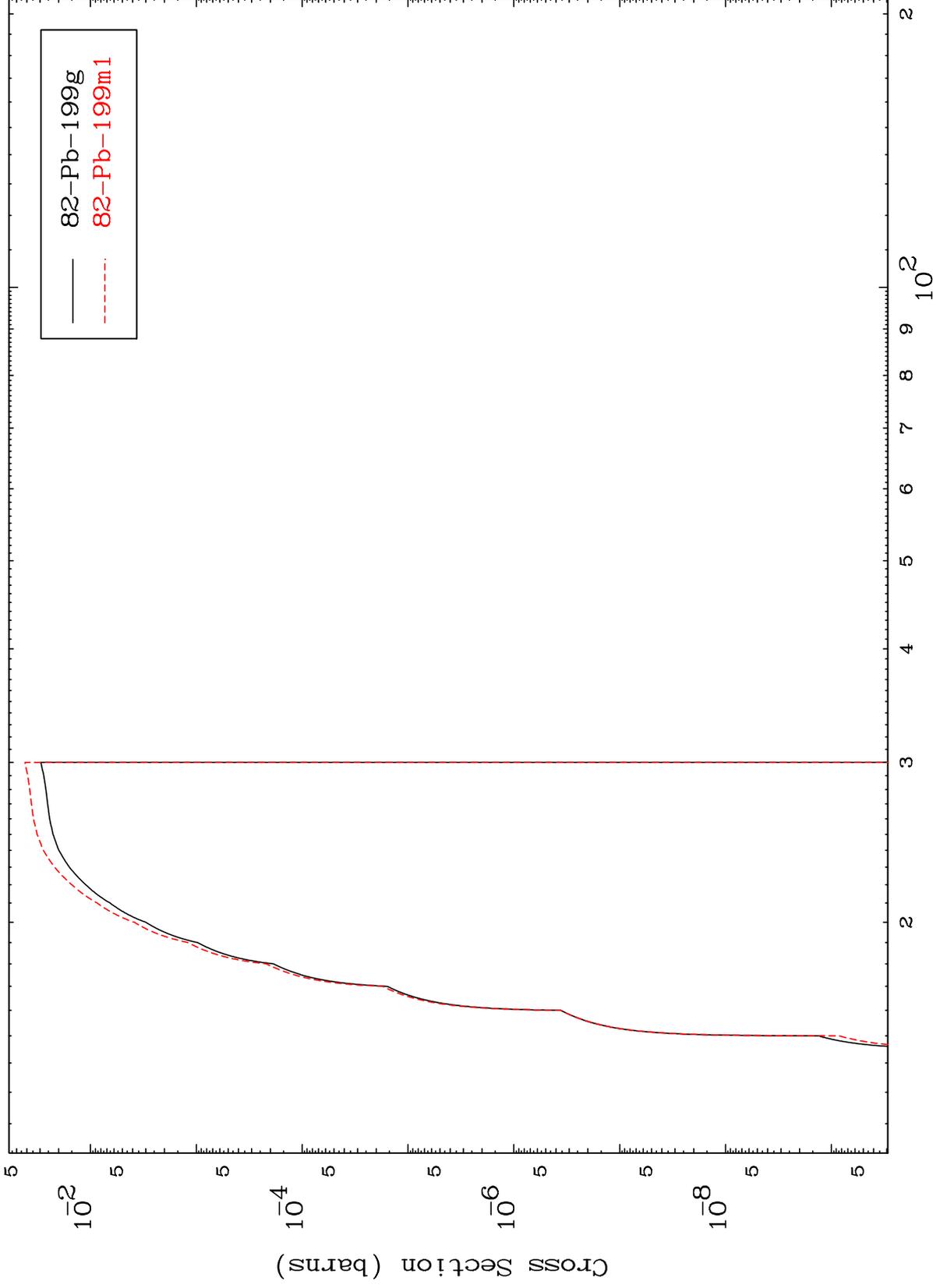
Incident Energy (MeV)

MAT 8301

(n,2n) p

83-Bi-201

Radionuclide Production Cross Section



98

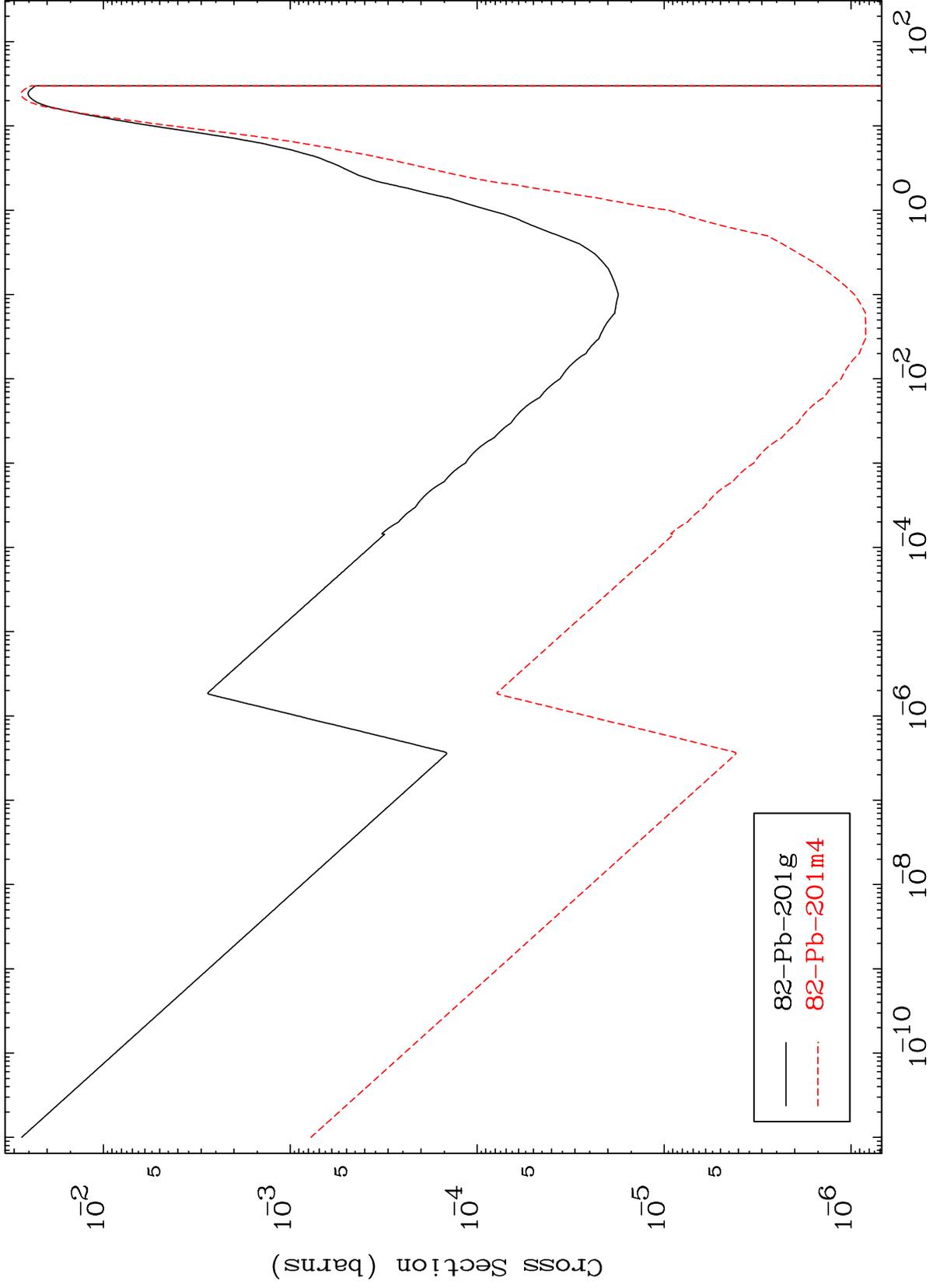
Incident Energy (MeV)

83-Bi-201

MAT 8301

83-Bi-201

(n,p)
Radionuclide Production Cross Section



99

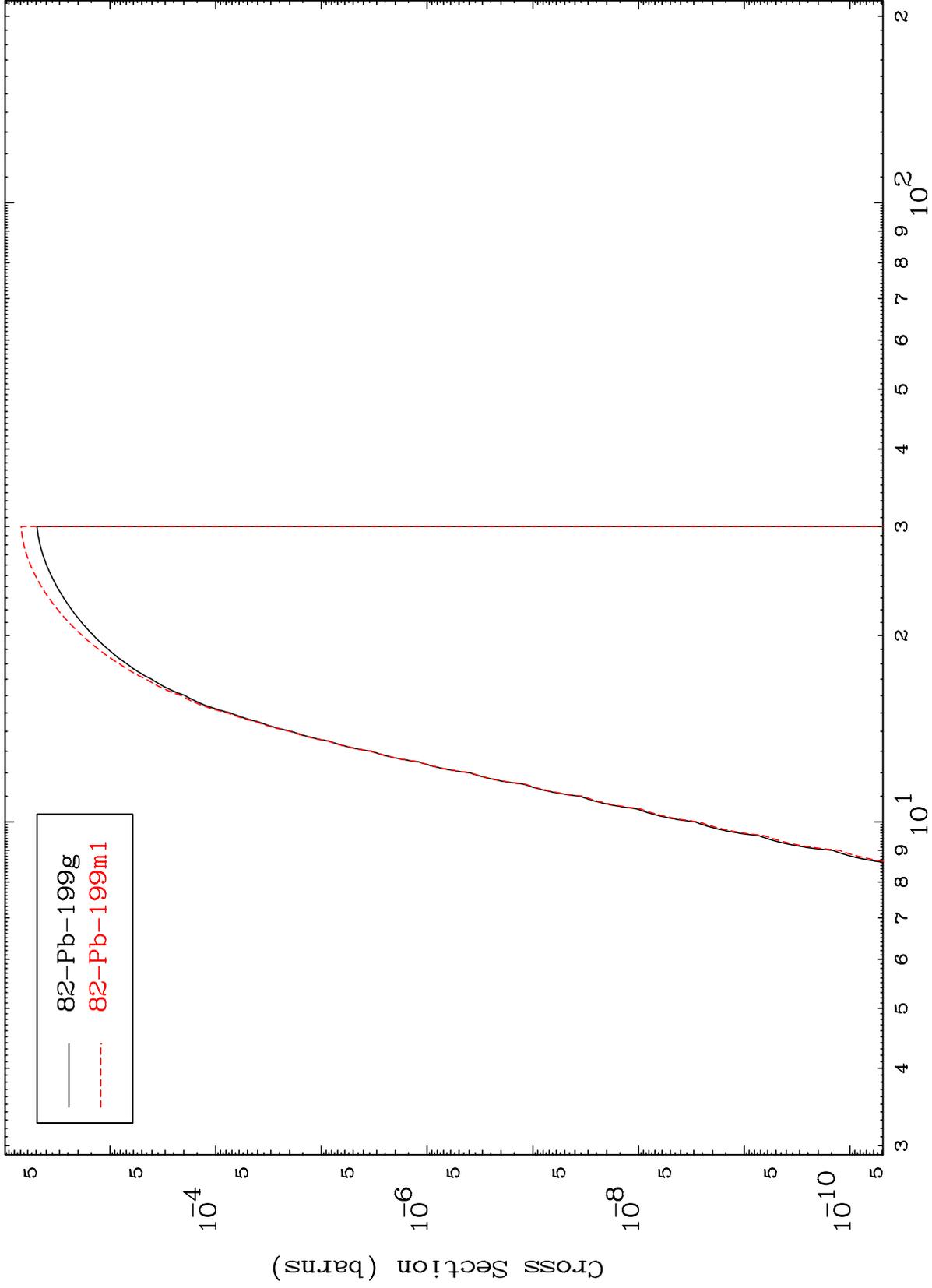
83-Bi-201

Incident Energy (MeV)

MAT 8301

83-Bi-201

(n, t)
Radionuclide Production Cross Section



83-Bi-201

Incident Energy (MeV)

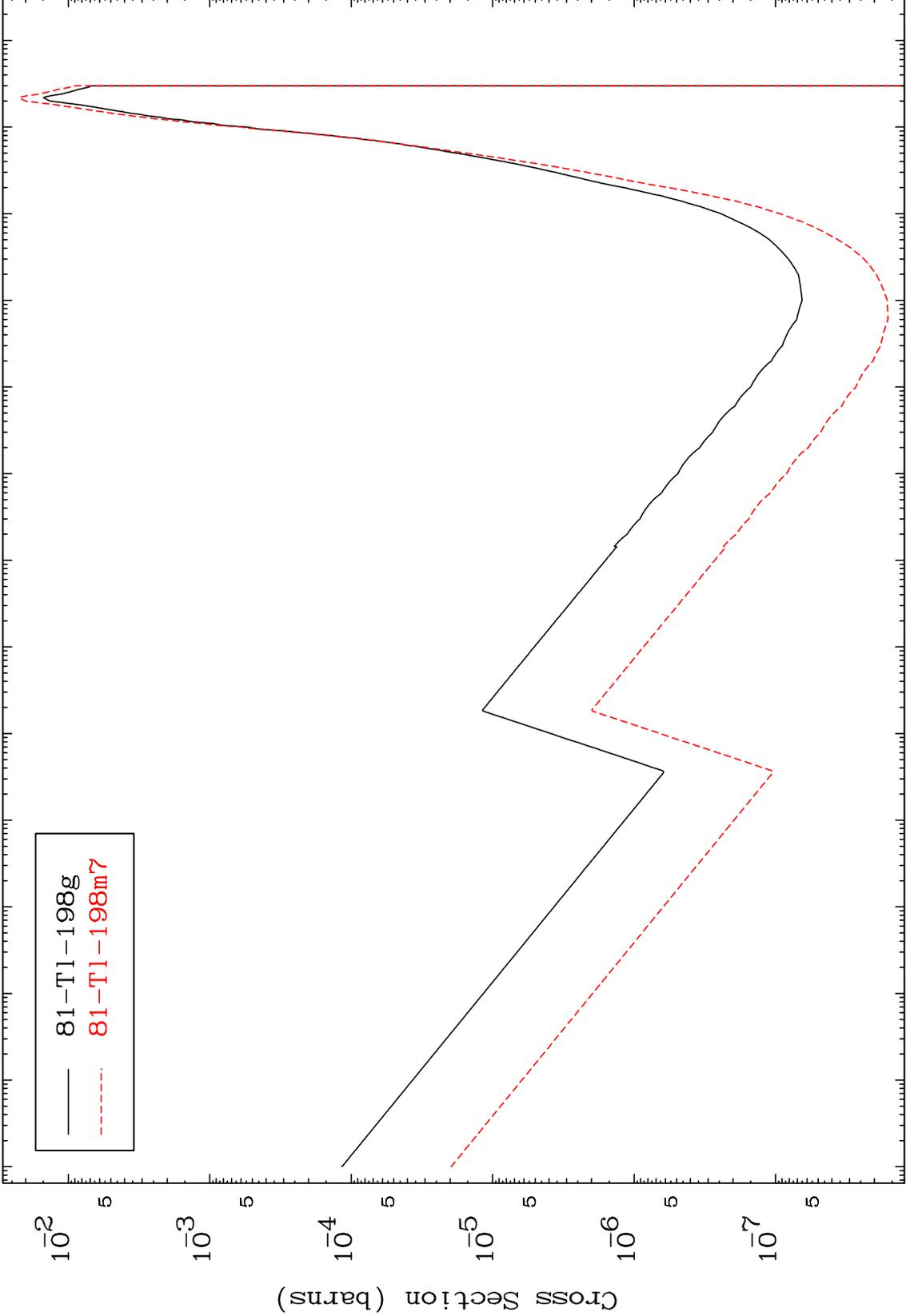
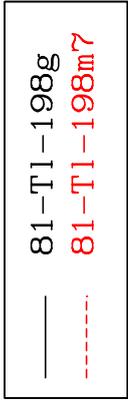
100

MAT 8301

(n, α)

⁸³Bi-201

Radionuclide Production Cross Section



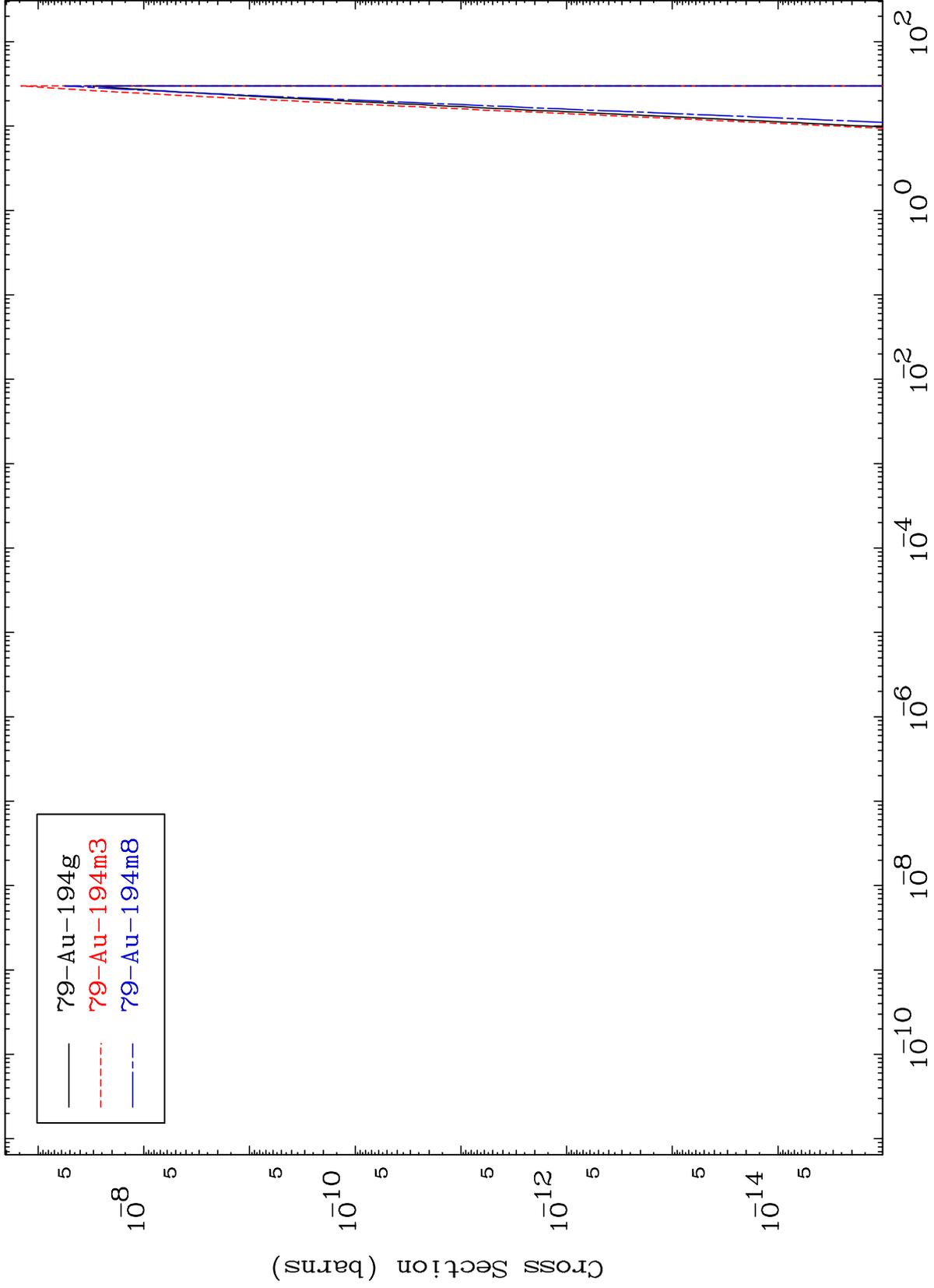
10⁻²
10⁻³
10⁻⁴
10⁻⁵
10⁻⁶
10⁻⁷
10⁻⁸
10⁻¹⁰
10⁰
10²
Incident Energy (MeV)
⁸³Bi-201

MAT 8301

(n,2α)

83-Bi-201

Radionuclide Production Cross Section

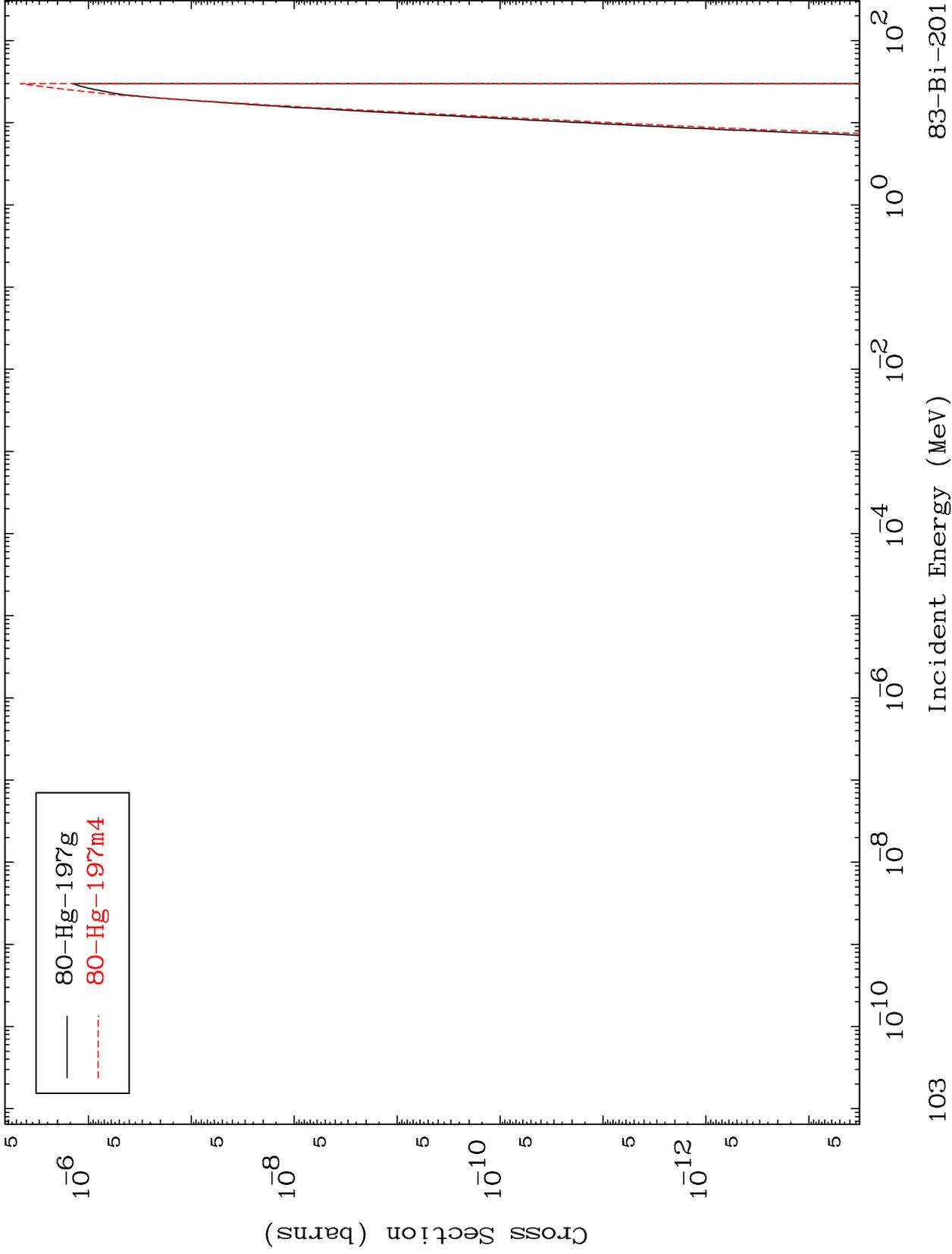


MAT 8301

(n,p) α

83-Bi-201

Radionuclide Production Cross Section



103

Incident Energy (MeV)

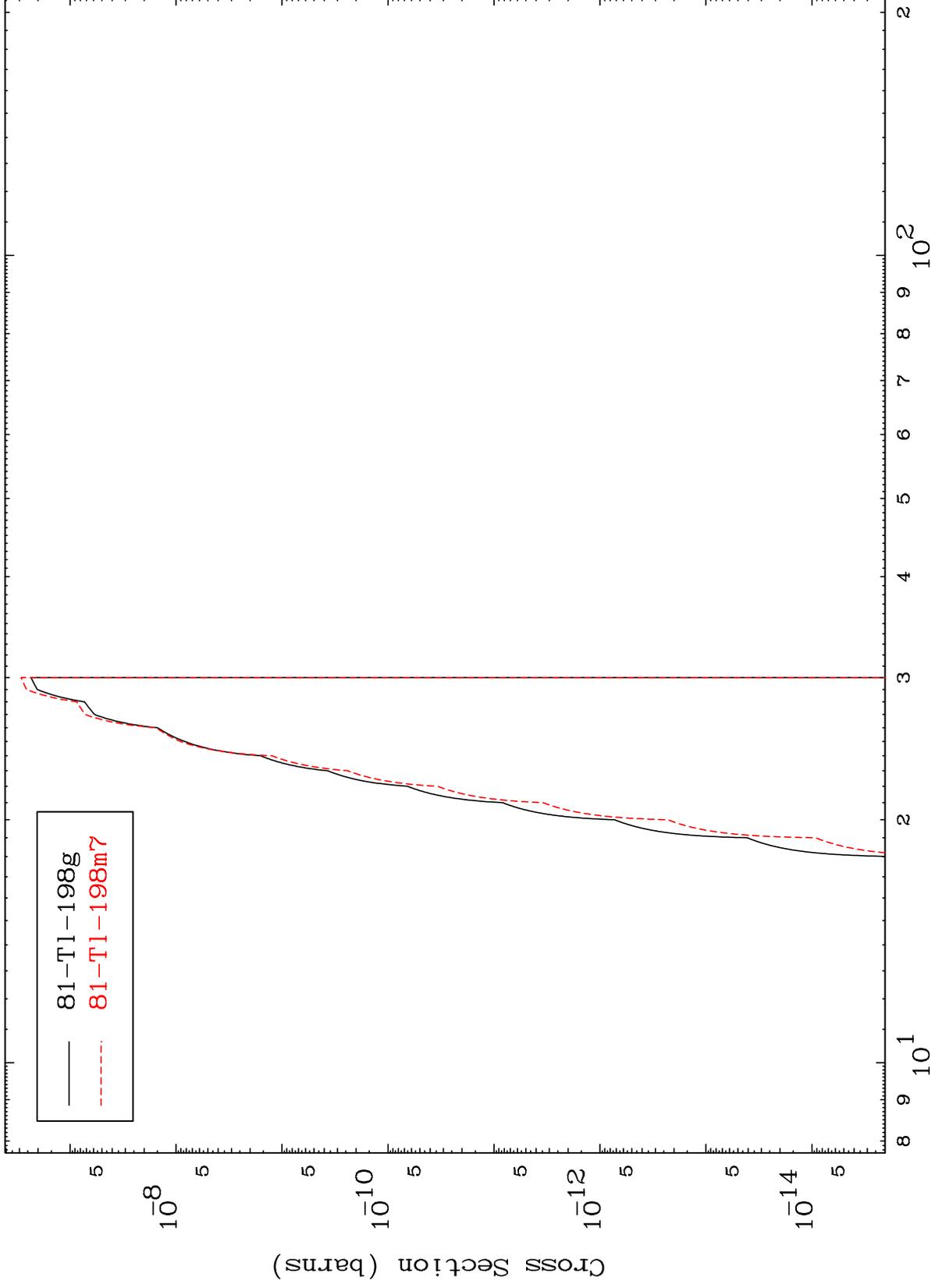
83-Bi-201

MAT 8301

(n,p) t

83-Bi-201

Radionuclide Production Cross Section



81-Tl-198g
81-Tl-198m7

104

Incident Energy (MeV)

83-Bi-201