

Program EVALPLOT
(Version 2021-1)

by

Dermott E. Cullen
(Present Contact Information)

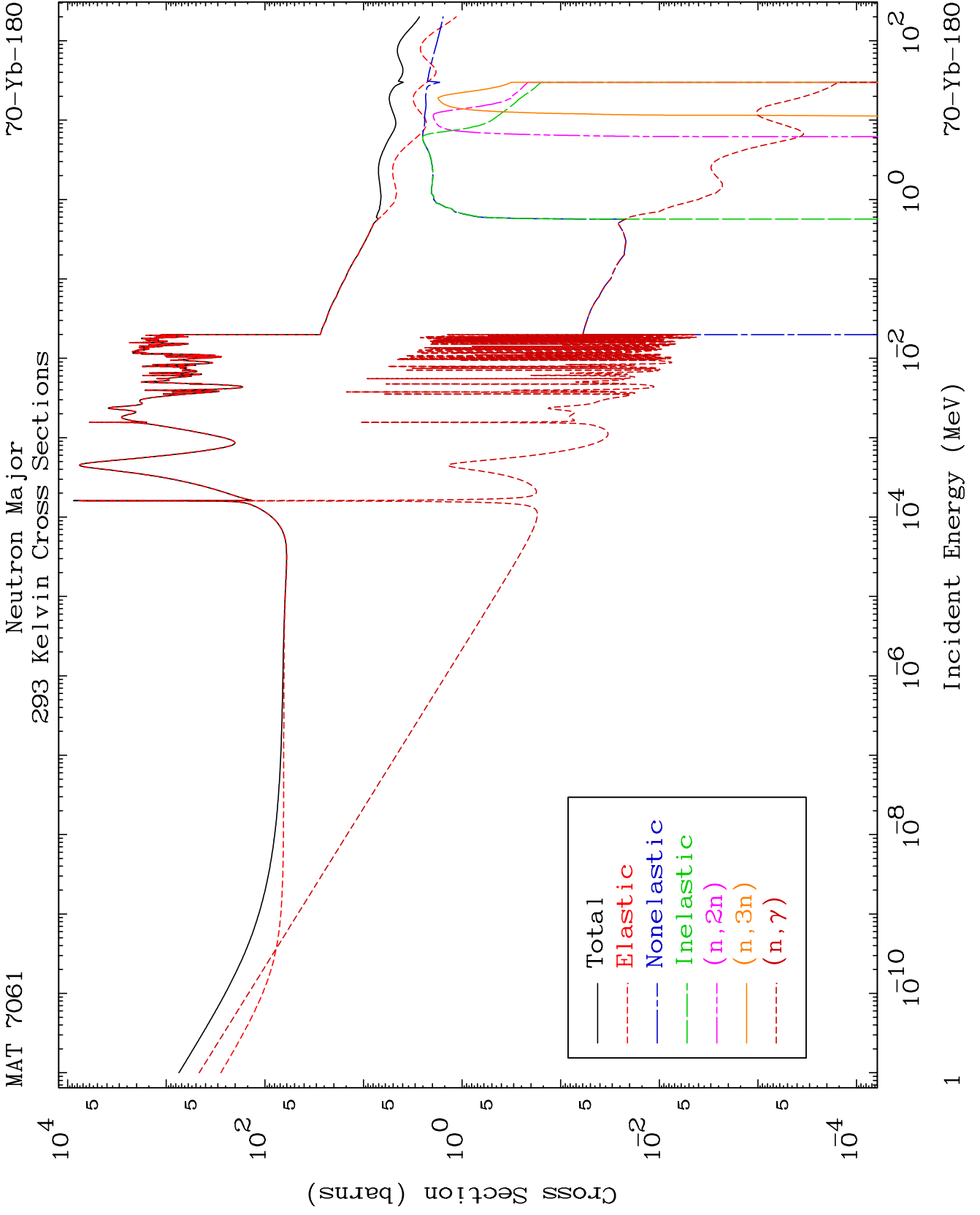
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Tele: 925-443-1911

E.Mail:redcullen1@comcast.net

Web:redcullen1.net/HOMEPAGE.NEW

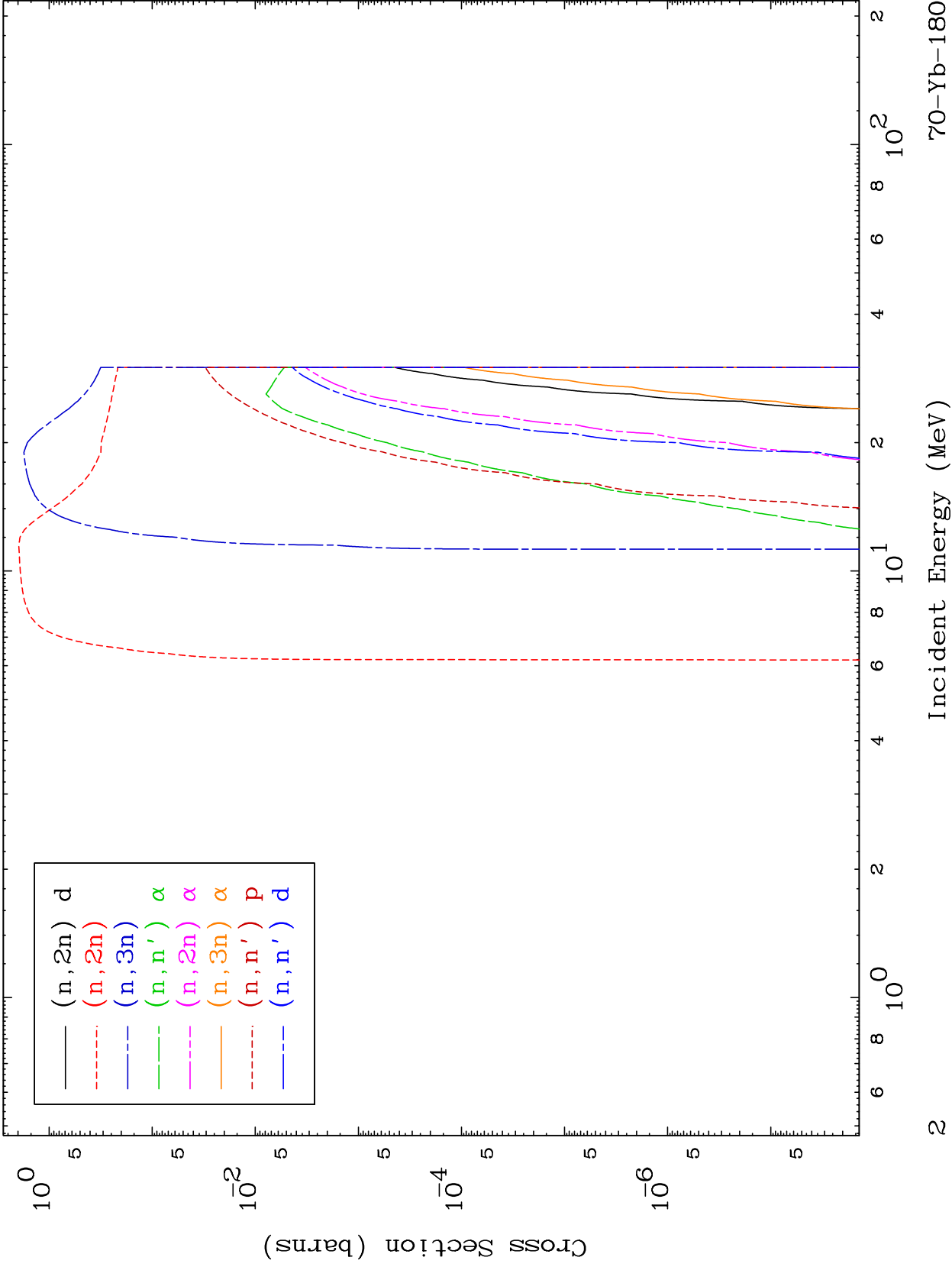
Press Mouse Button to Start



MAT 7061

Neutron Absorption
293 Kelvin Cross Sections

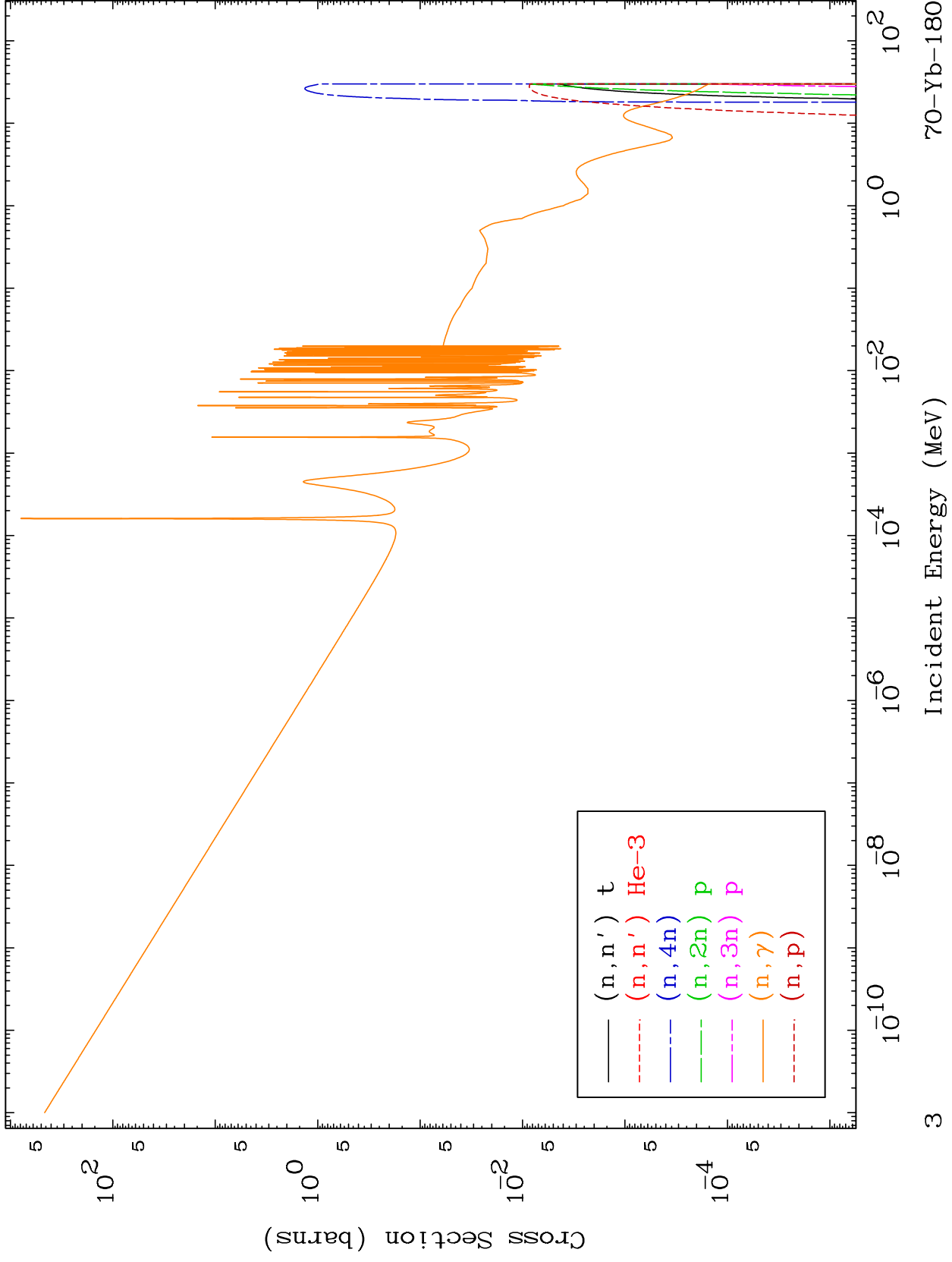
70-Yb-180



MAT 7061

Neutron Absorption
293 Kelvin Cross Sections

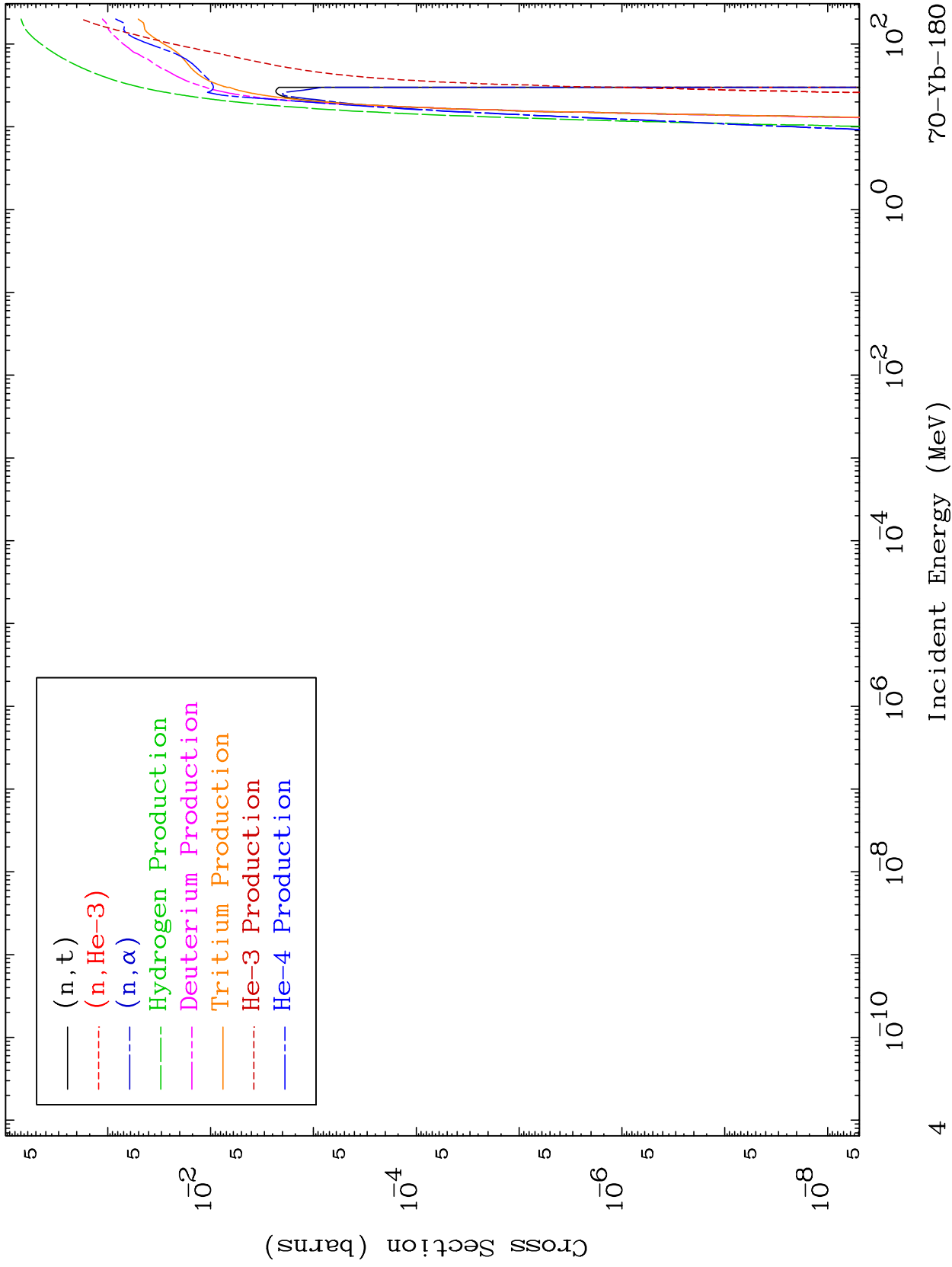
70-Yb-180



MAT 7061

Neutron Absorption
293 Kelvin Cross Sections

70-Yb-180

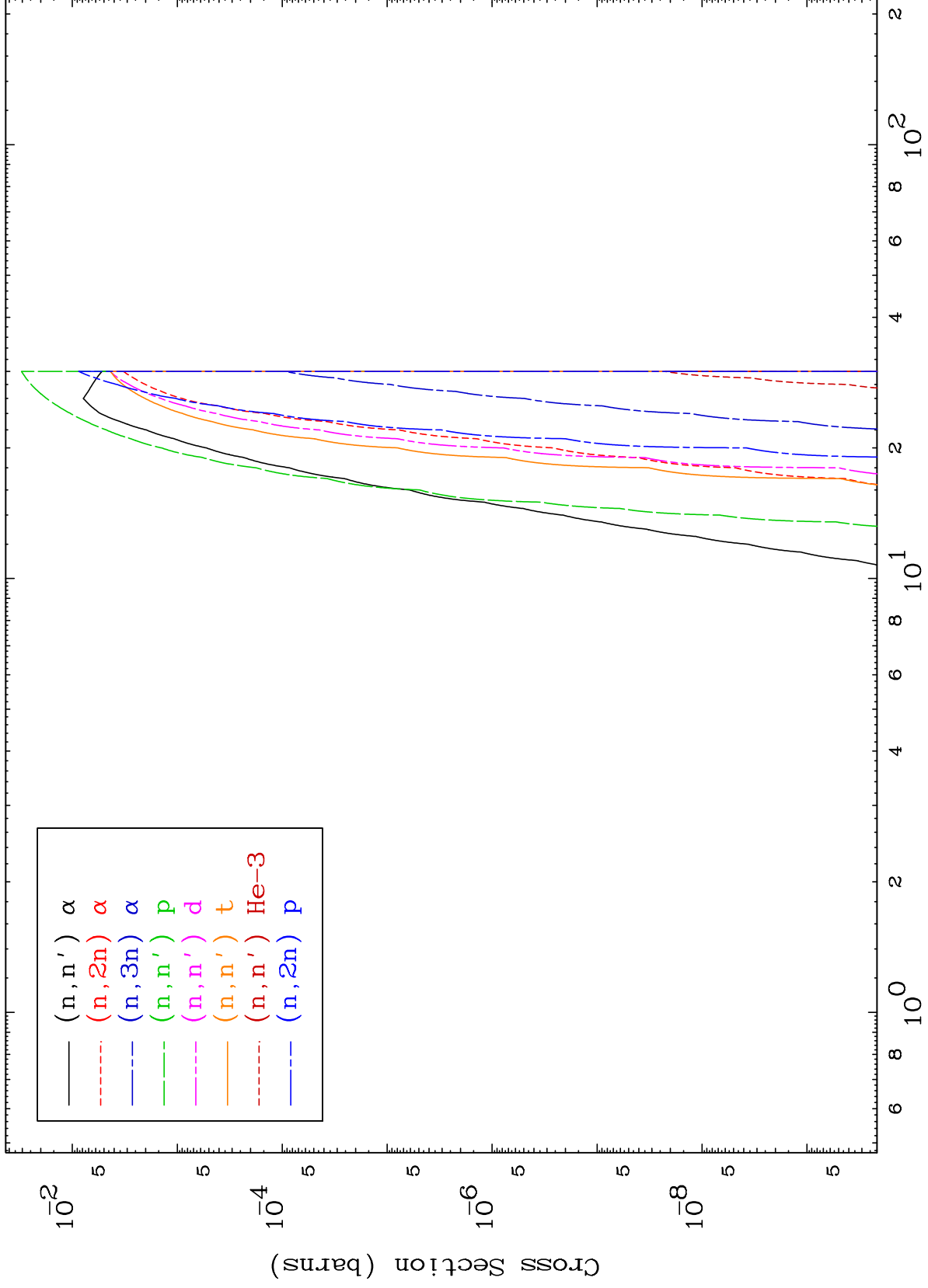


MAT 7061

Charged Particle

70-Yb-180

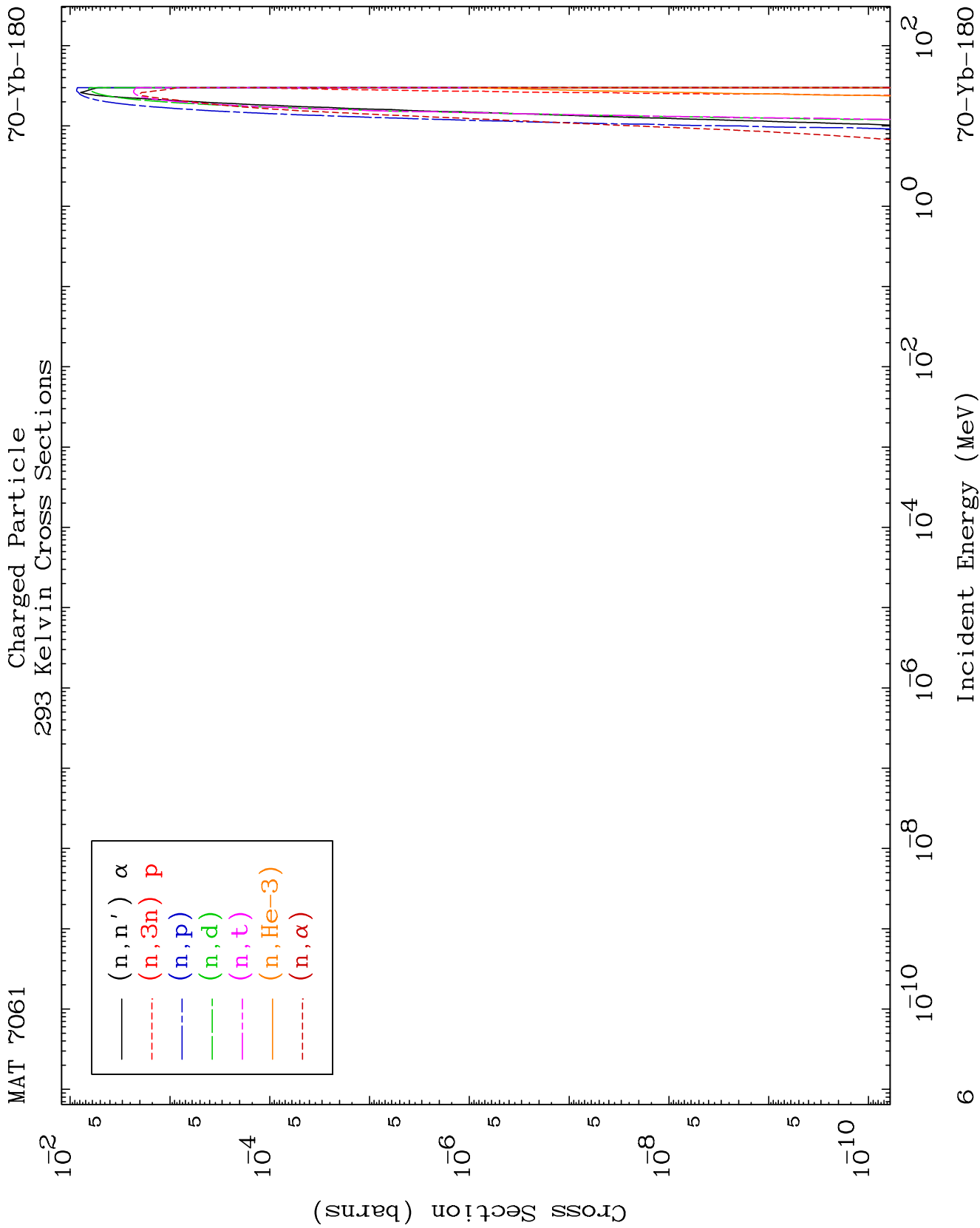
293 Kelvin Cross Sections



5

Incident Energy (MeV)

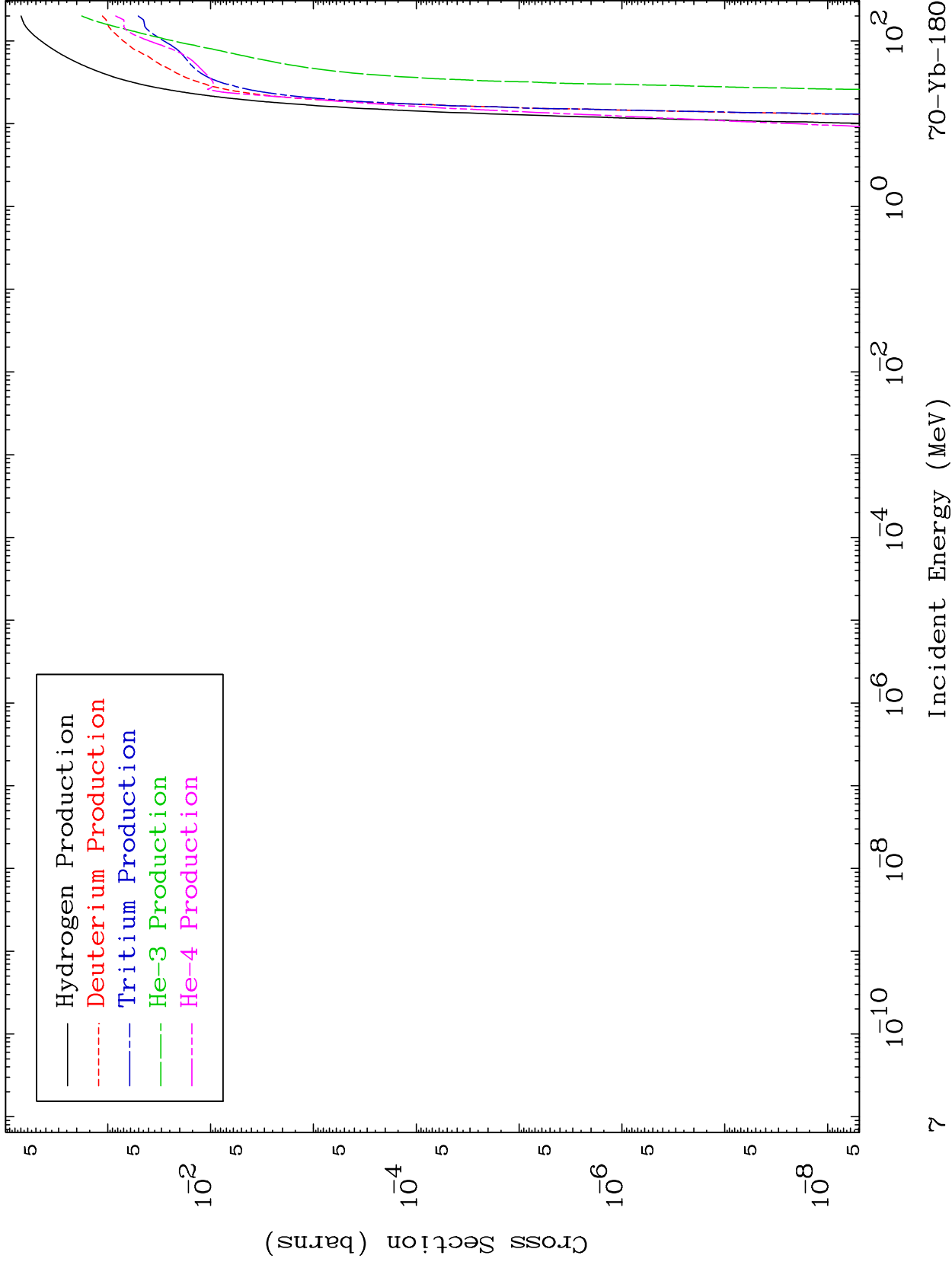
70-Yb-180



MAT 7061

Particle Production
293 Kelvin Cross Sections

70-Yb-180

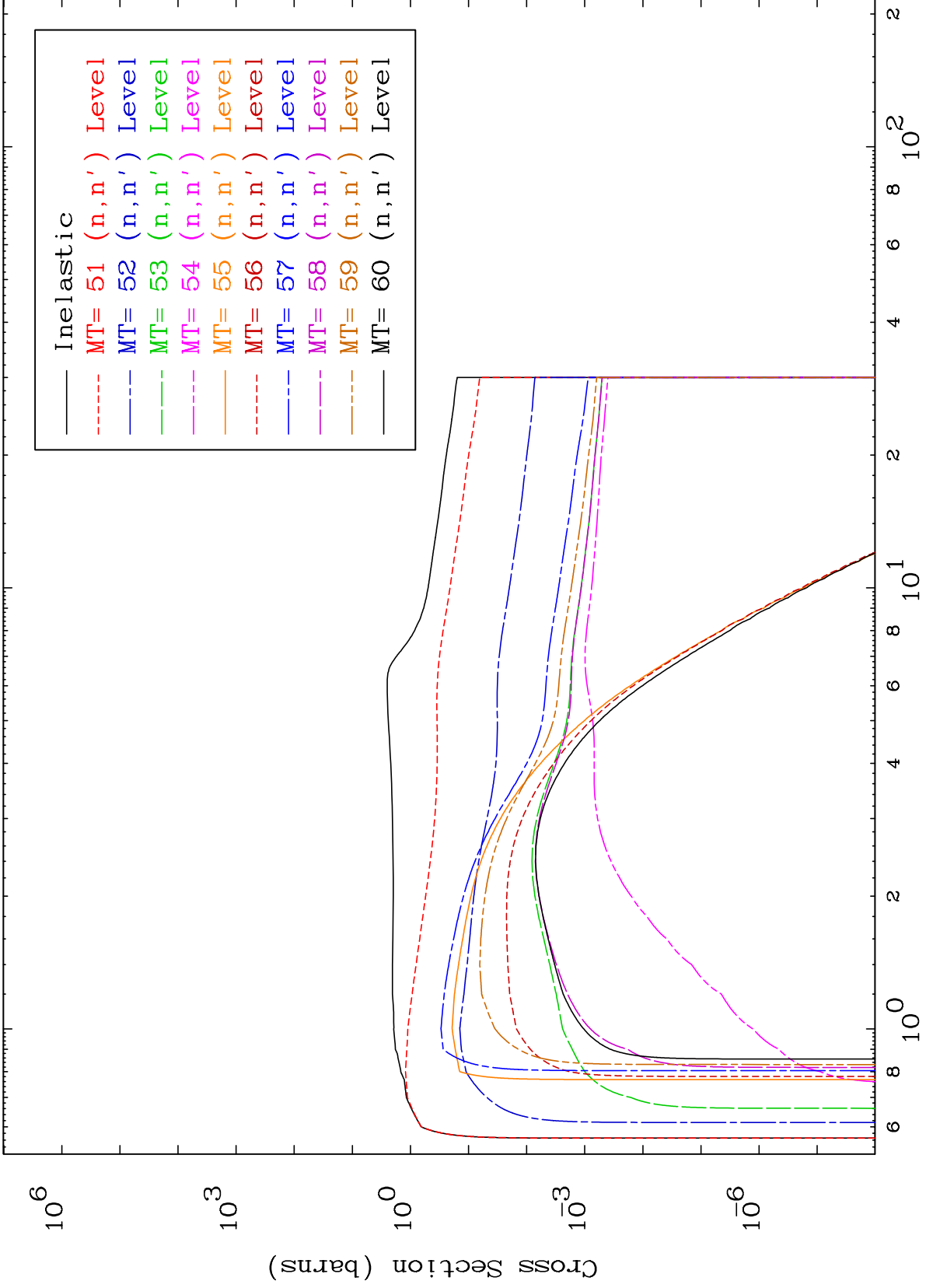


MAT 7061

(n,n') Levels

70-Yb-180

293 Kelvin Cross Sections



8

Incident Energy (MeV)

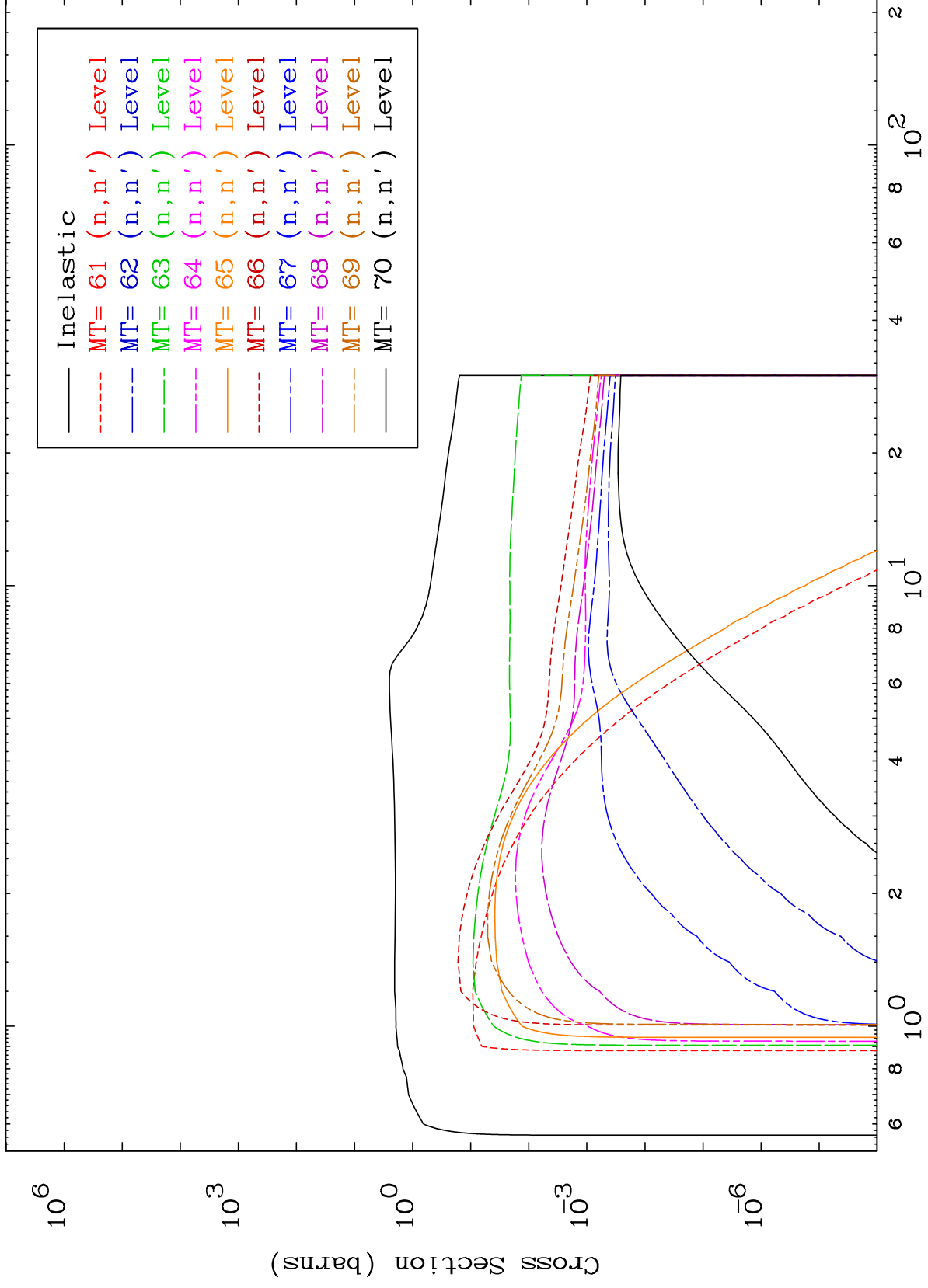
70-Yb-180

MAT 7061

(n,n') Levels

70-Yb-180

293 Kelvin Cross Sections



9

Incident Energy (MeV)

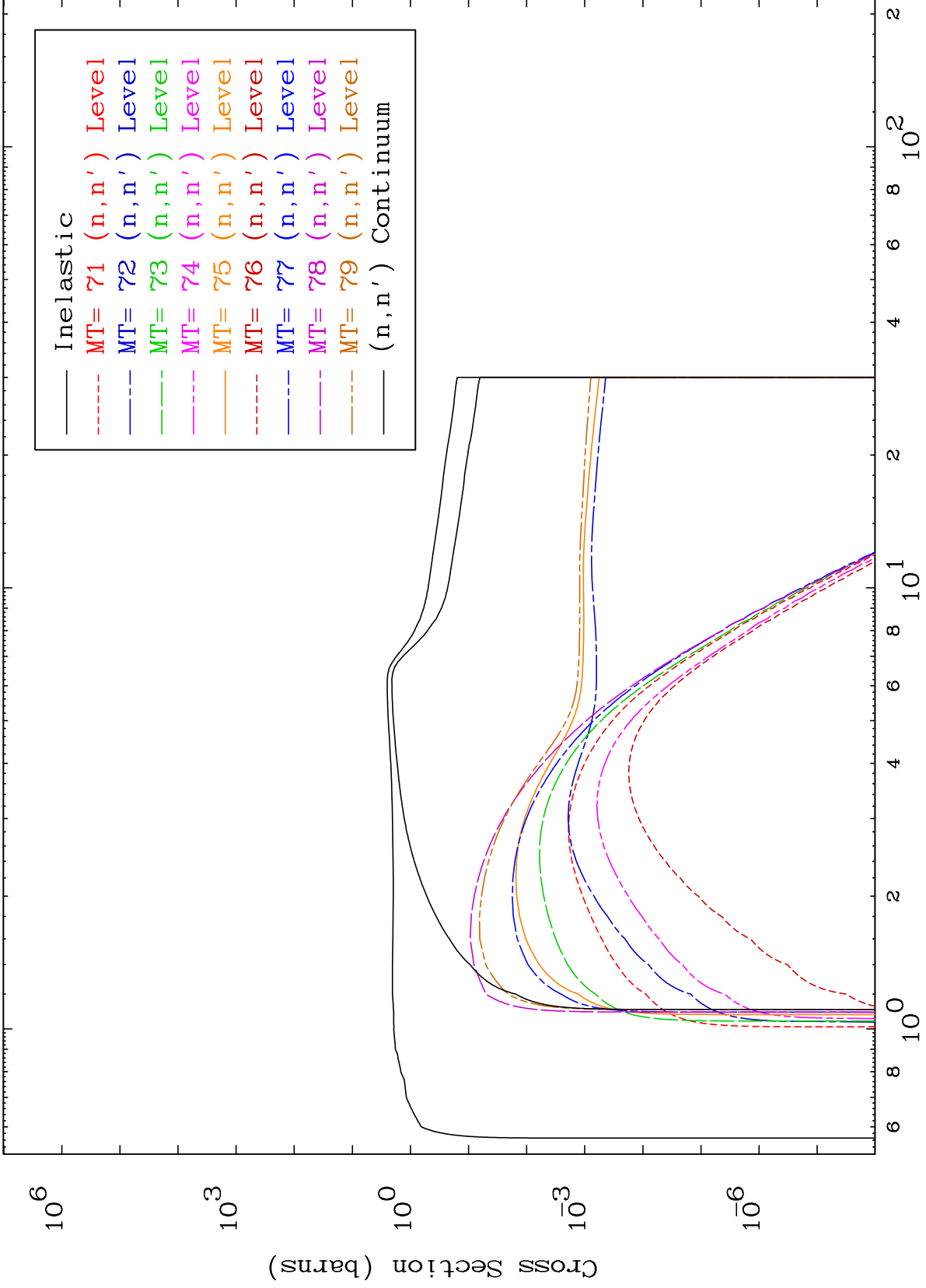
70-Yb-180

MAT 7061

(n,n') Levels

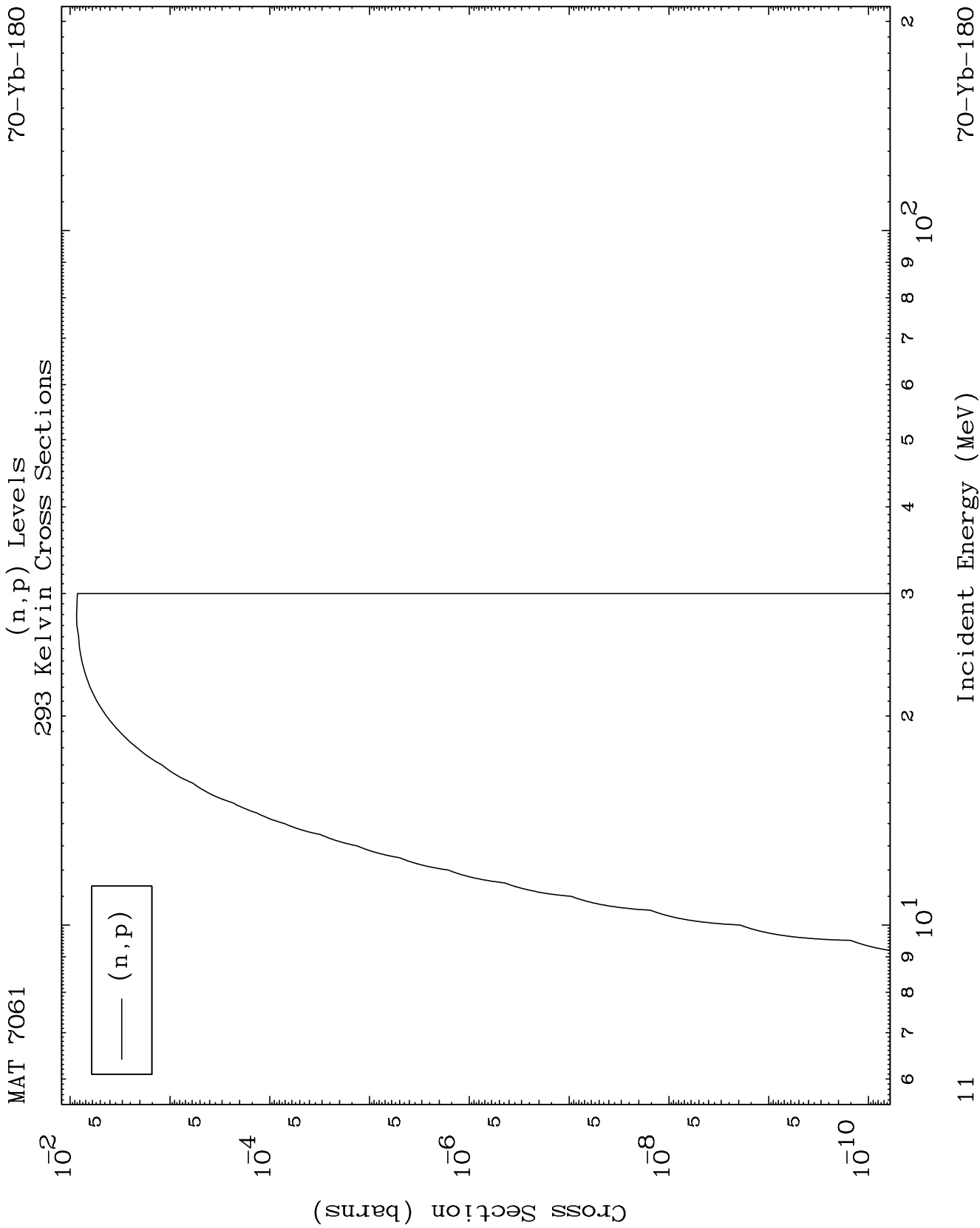
70-Yb-180

293 Kelvin Cross Sections



Incident Energy (MeV)

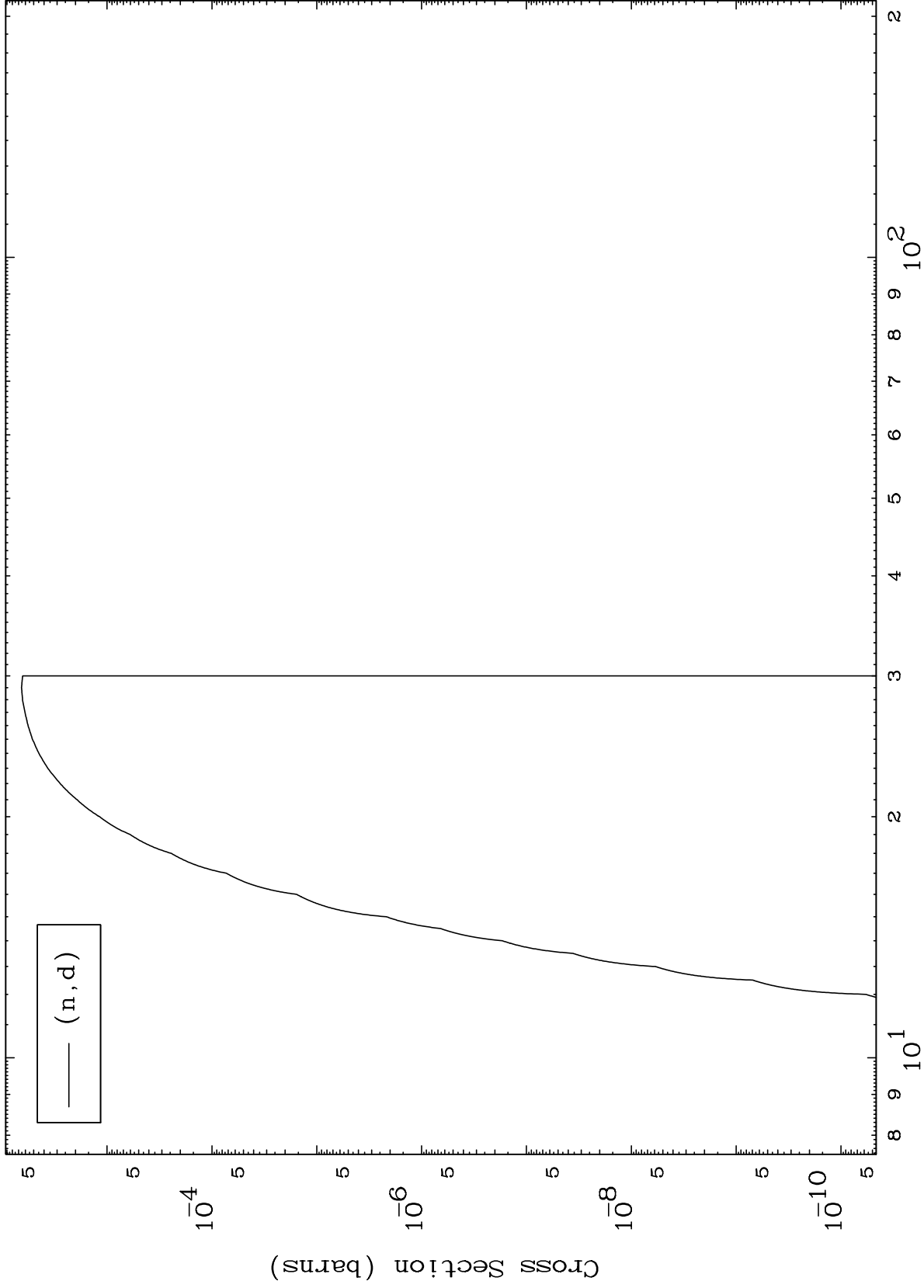
70-Yb-180



MAT 7061

(n,d) Levels
293 Kelvin Cross Sections

70-Yb-180



12

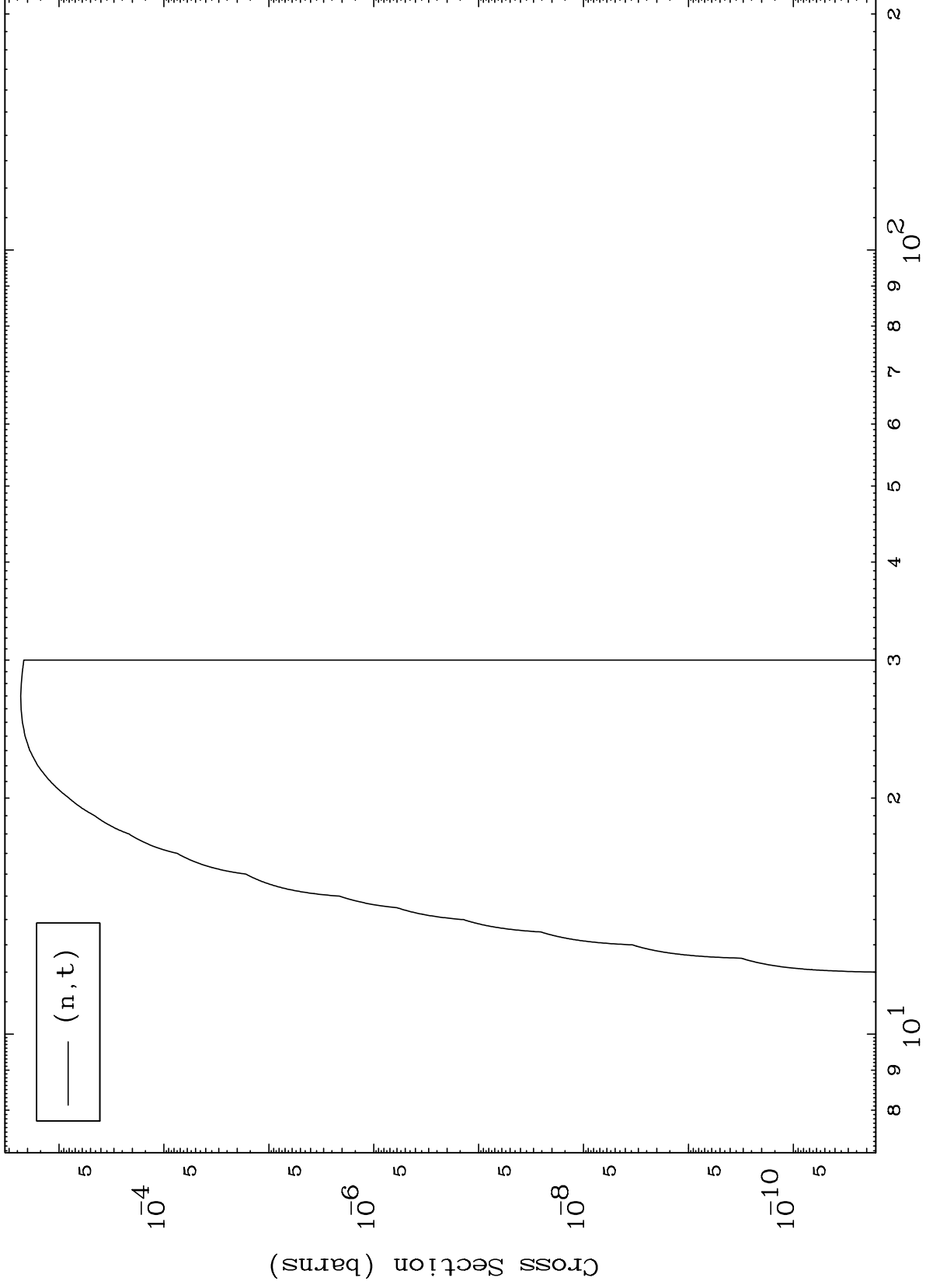
Incident Energy (MeV)

70-Yb-180

MAT 7061

(n,t) Levels
293 Kelvin Cross Sections

70-Yb-180



13

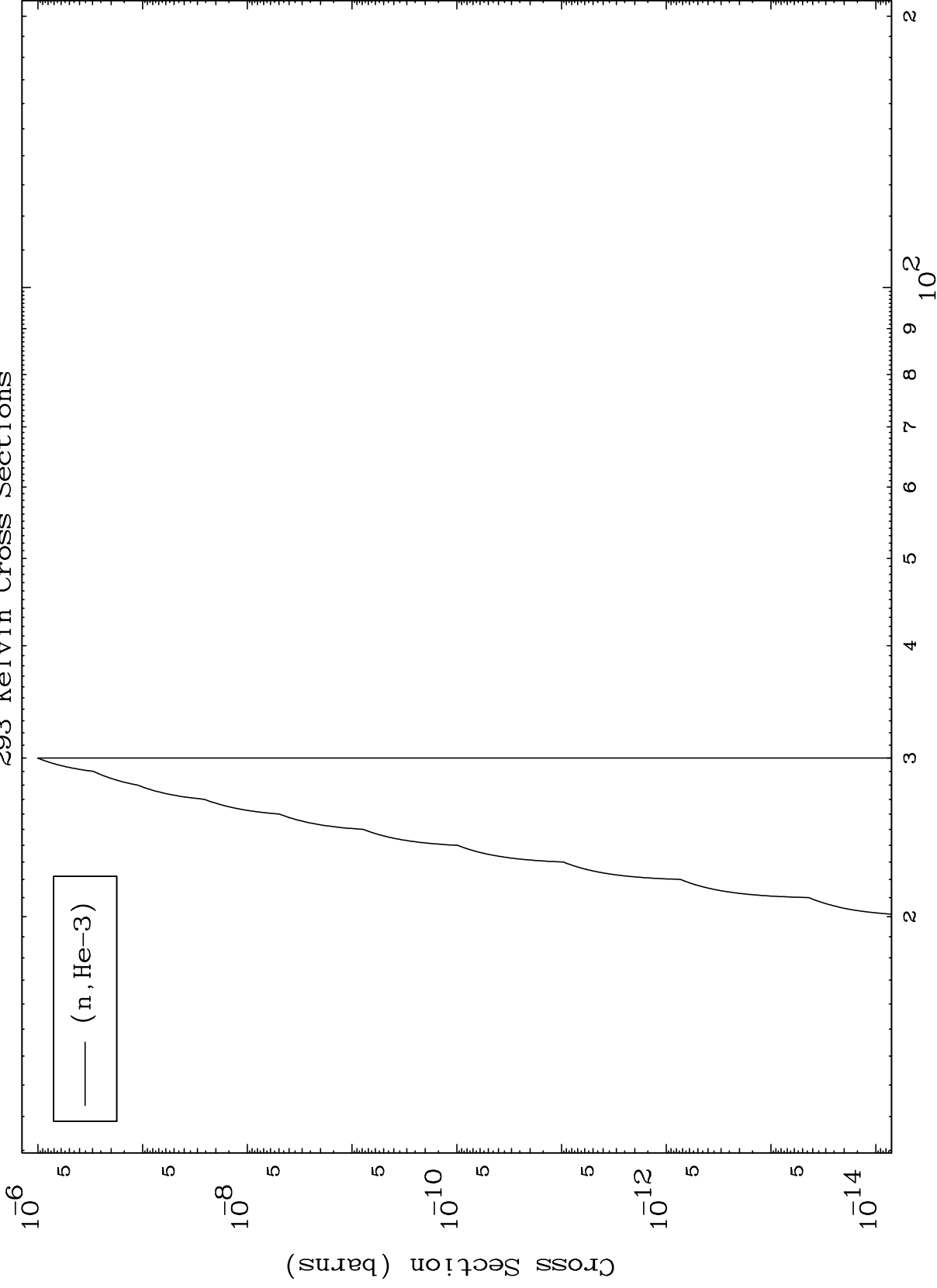
Incident Energy (MeV)

70-Yb-180

MAT 7061

(n,He3) Levels
293 Kelvin Cross Sections

70-Yb-180



14

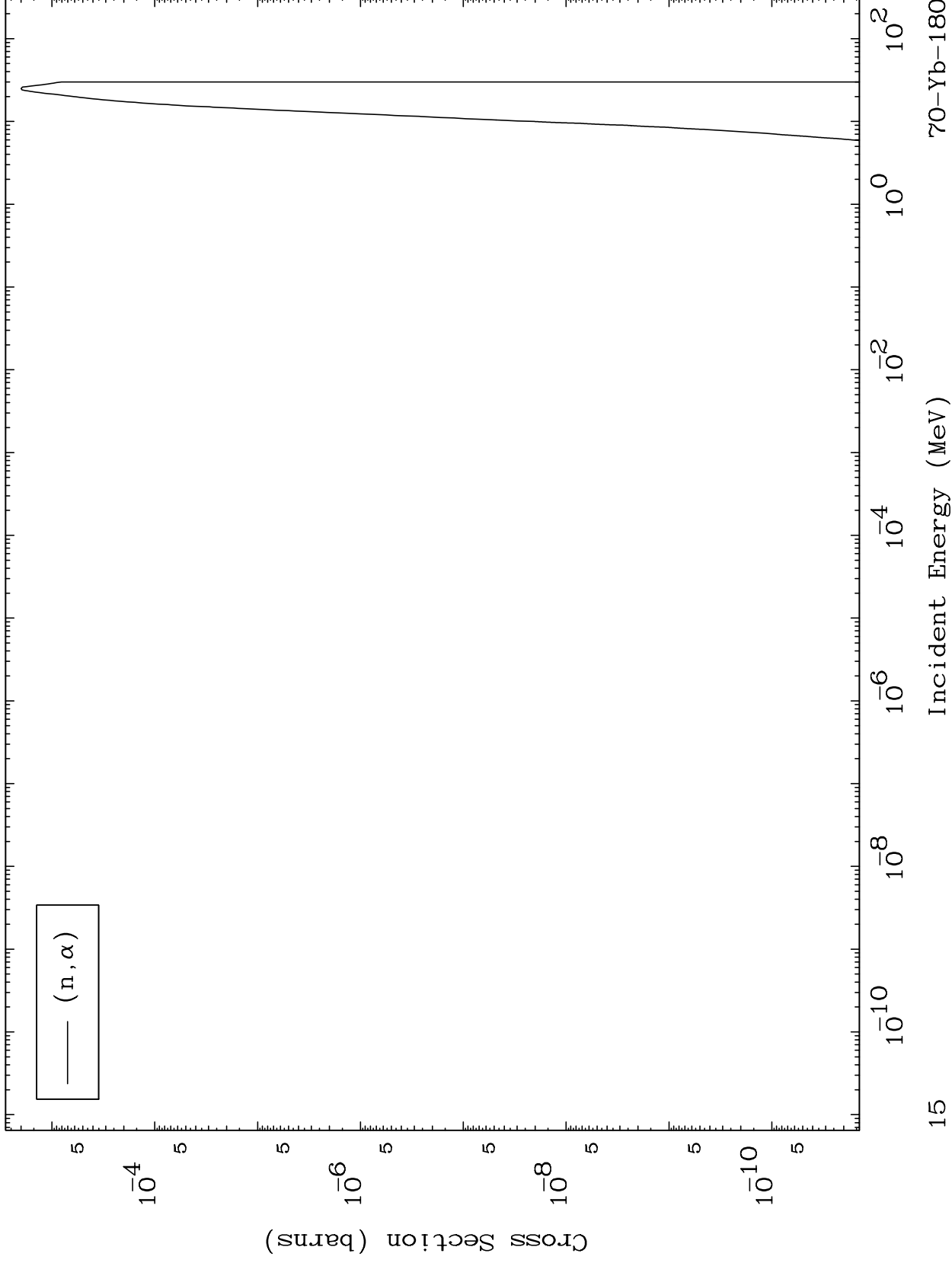
Incident Energy (MeV)

70-Yb-180

MAT 7061

(n, α) Levels
293 Kelvin Cross Sections

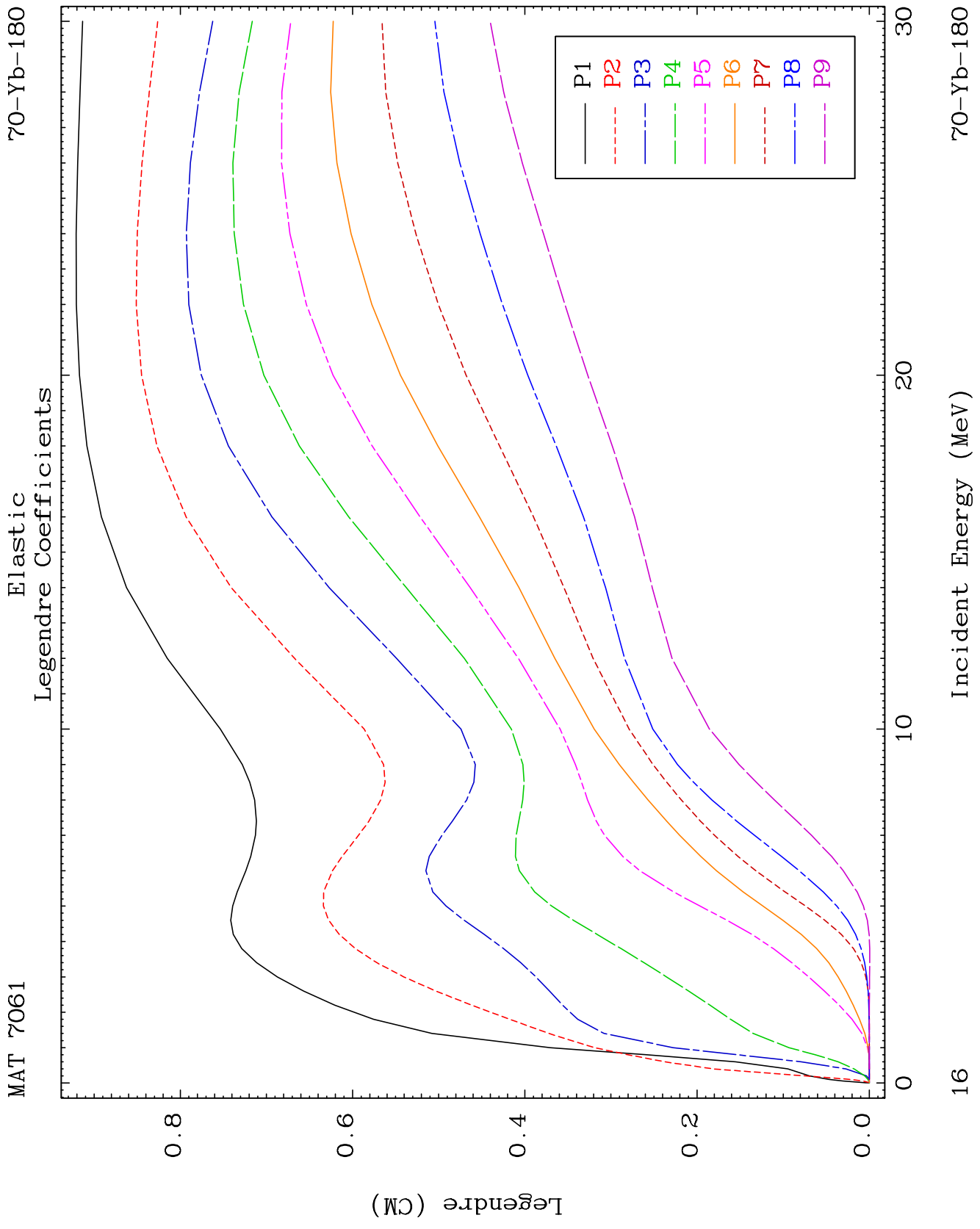
70-Yb-180

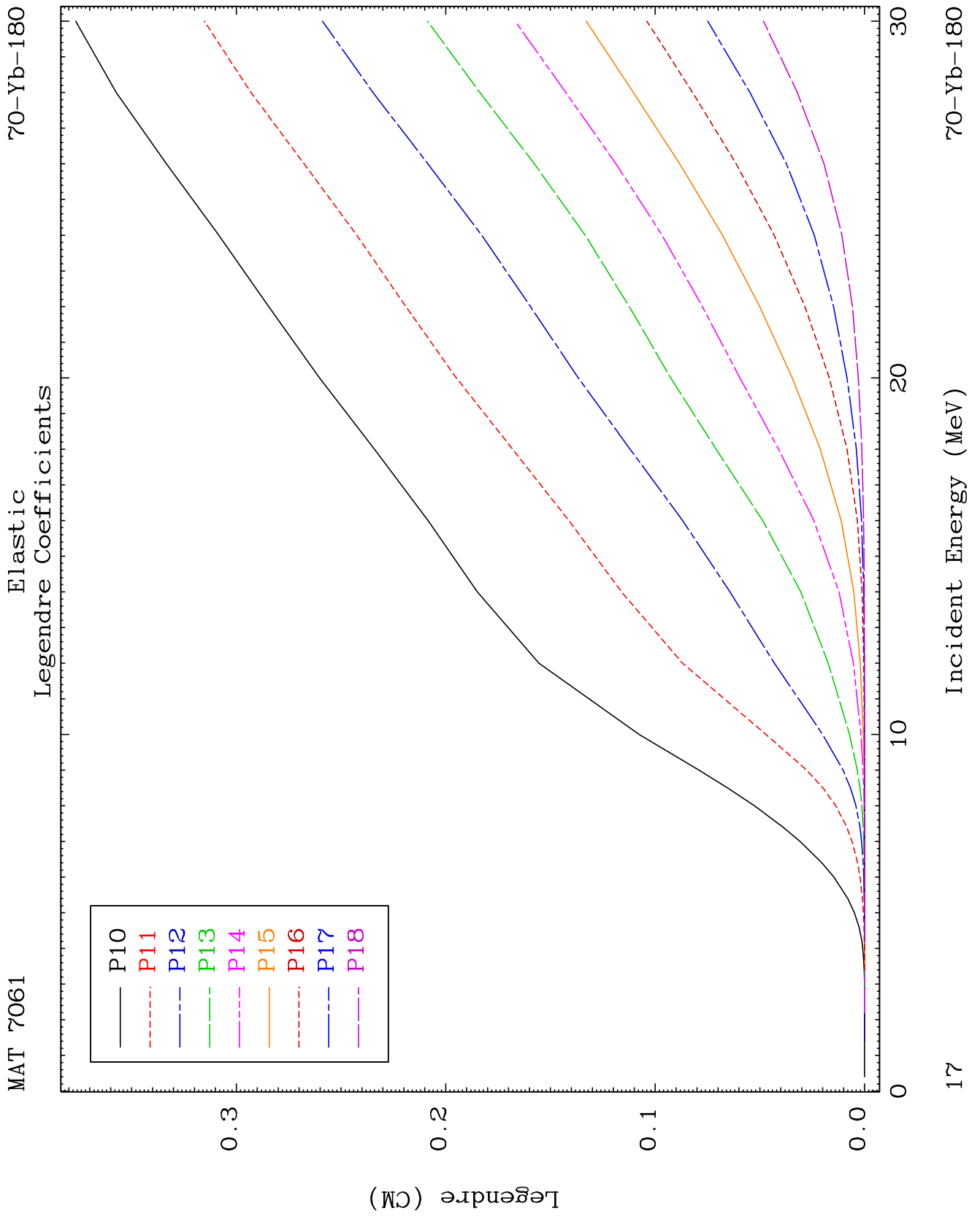


15

Incident Energy (MeV)

70-Yb-180

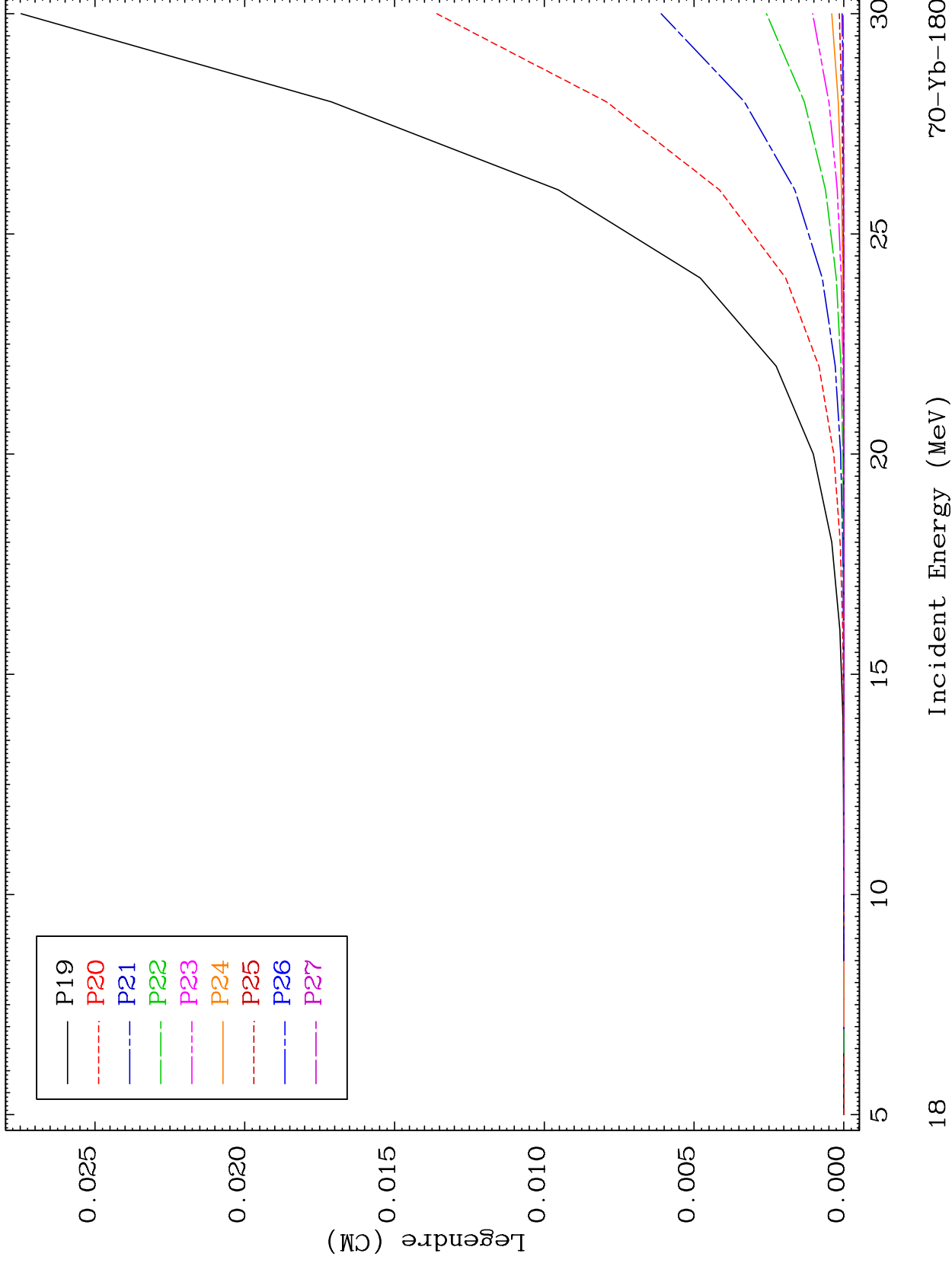




MAT 7061

Elastic
Legendre Coefficients

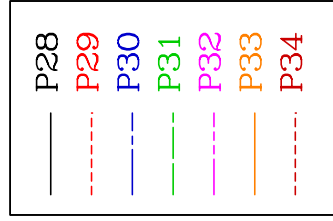
70-Yb-180



MAT 7061

Elastic
Legendre Coefficients

70-Yb-180



$\times 10^{-6}$

Legendre (CM)

4

2

0

15

20

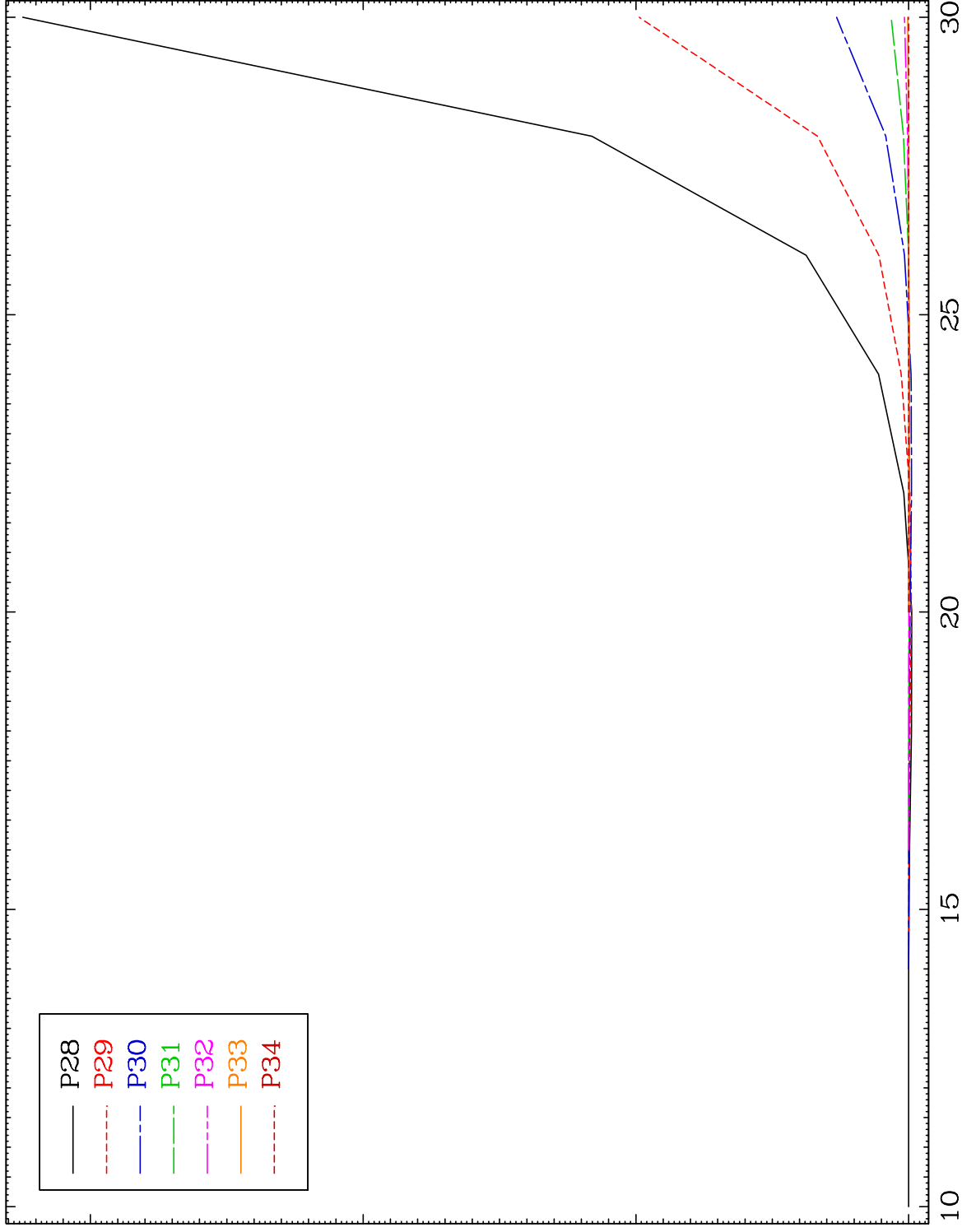
25

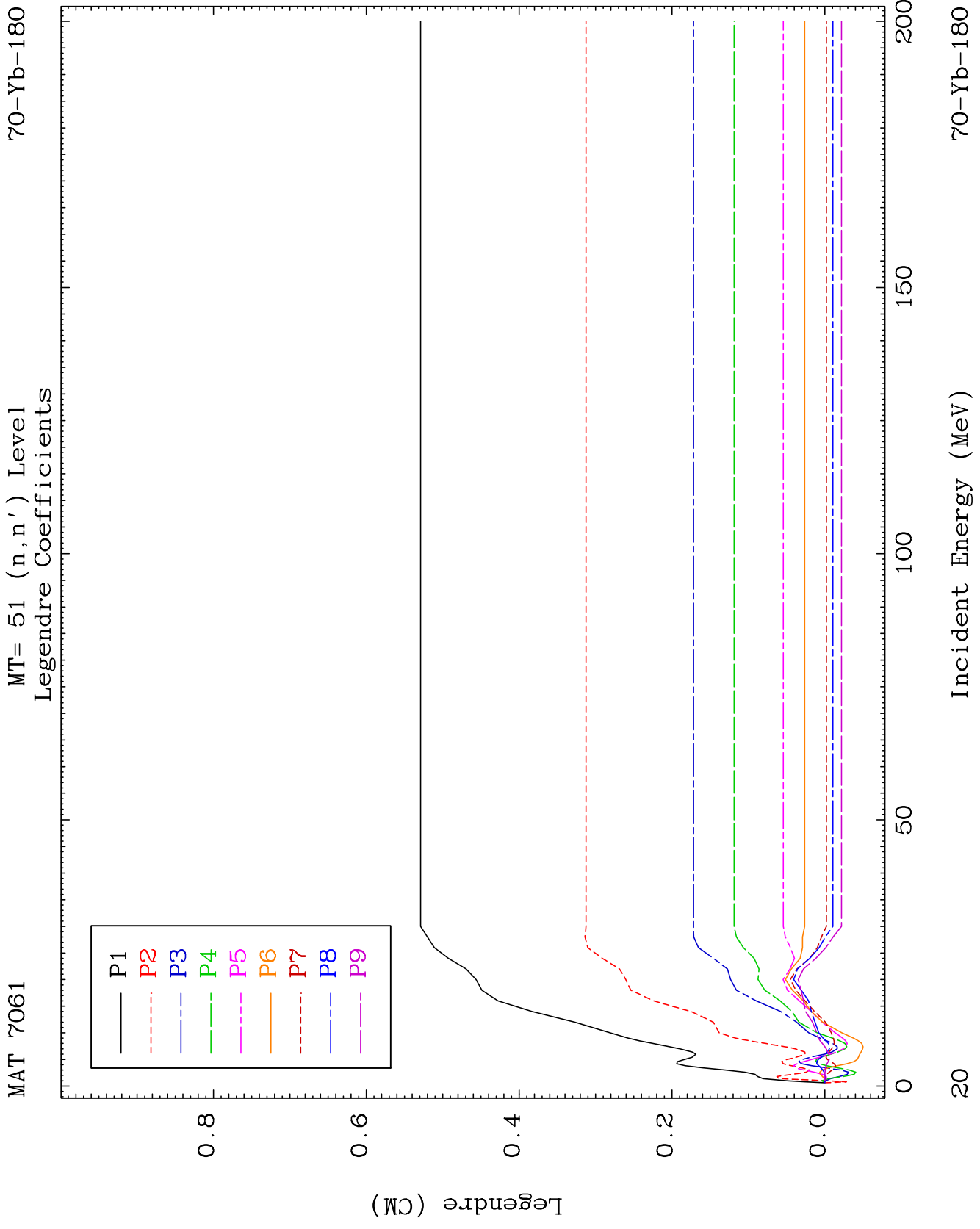
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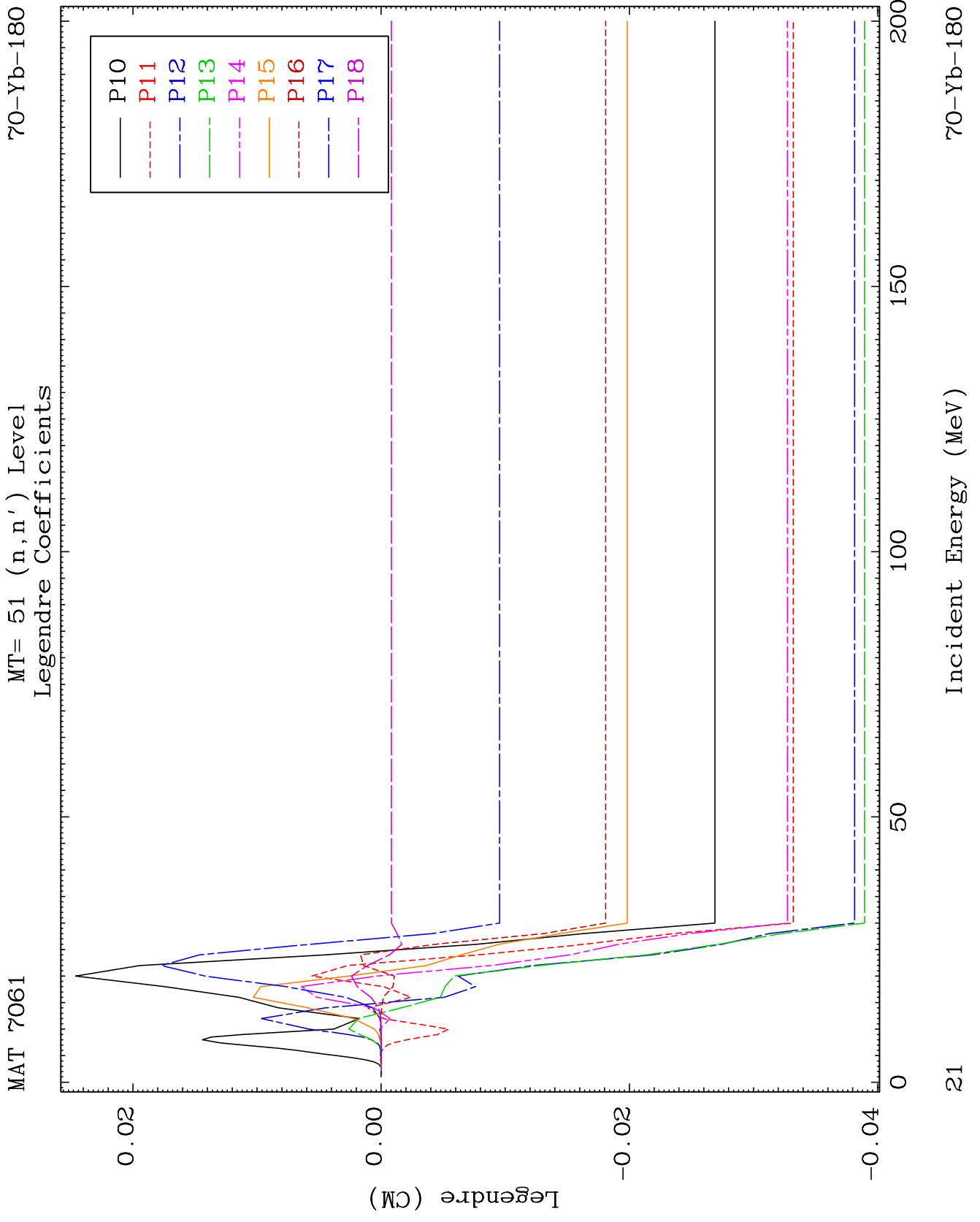
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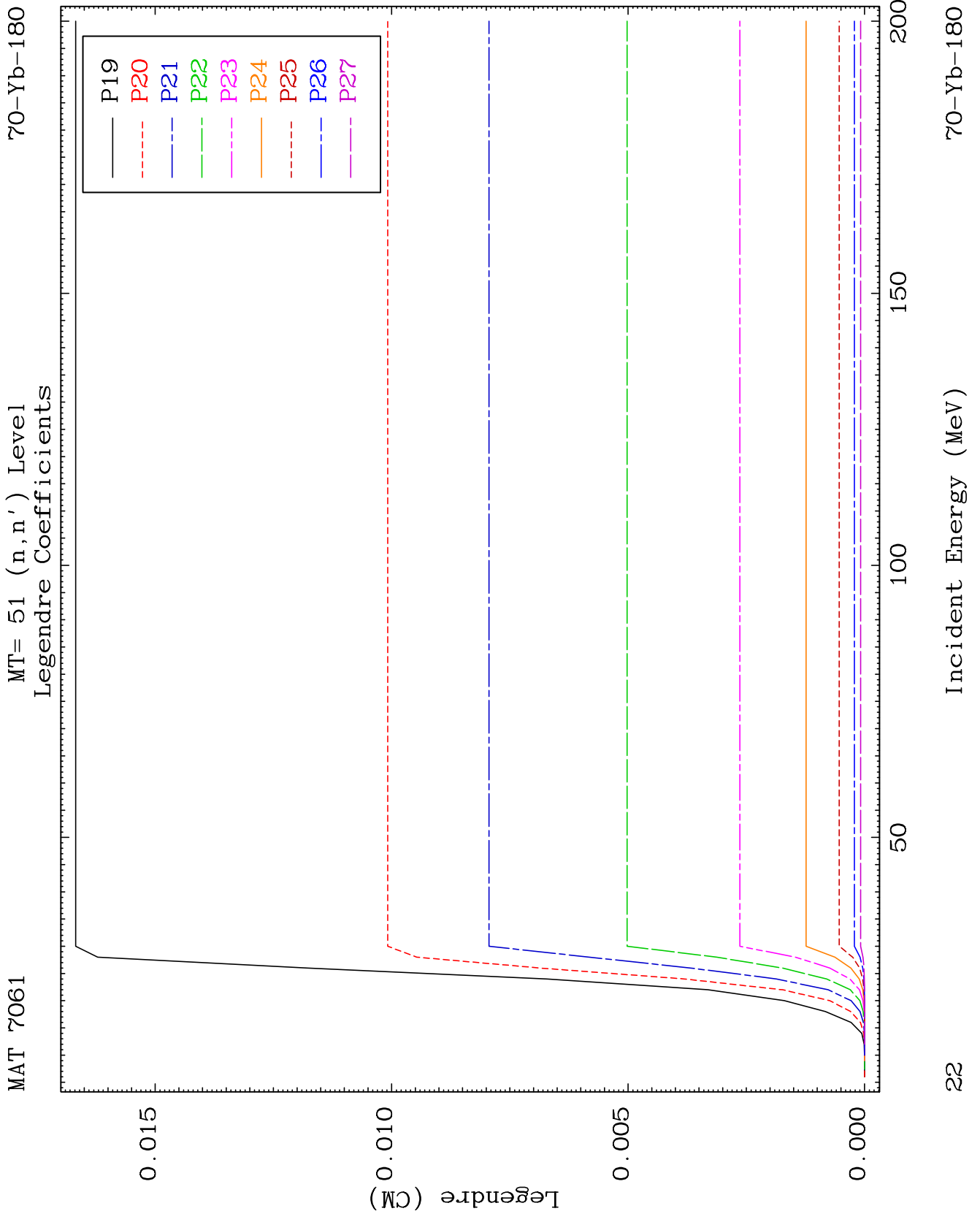
Incident Energy (MeV)

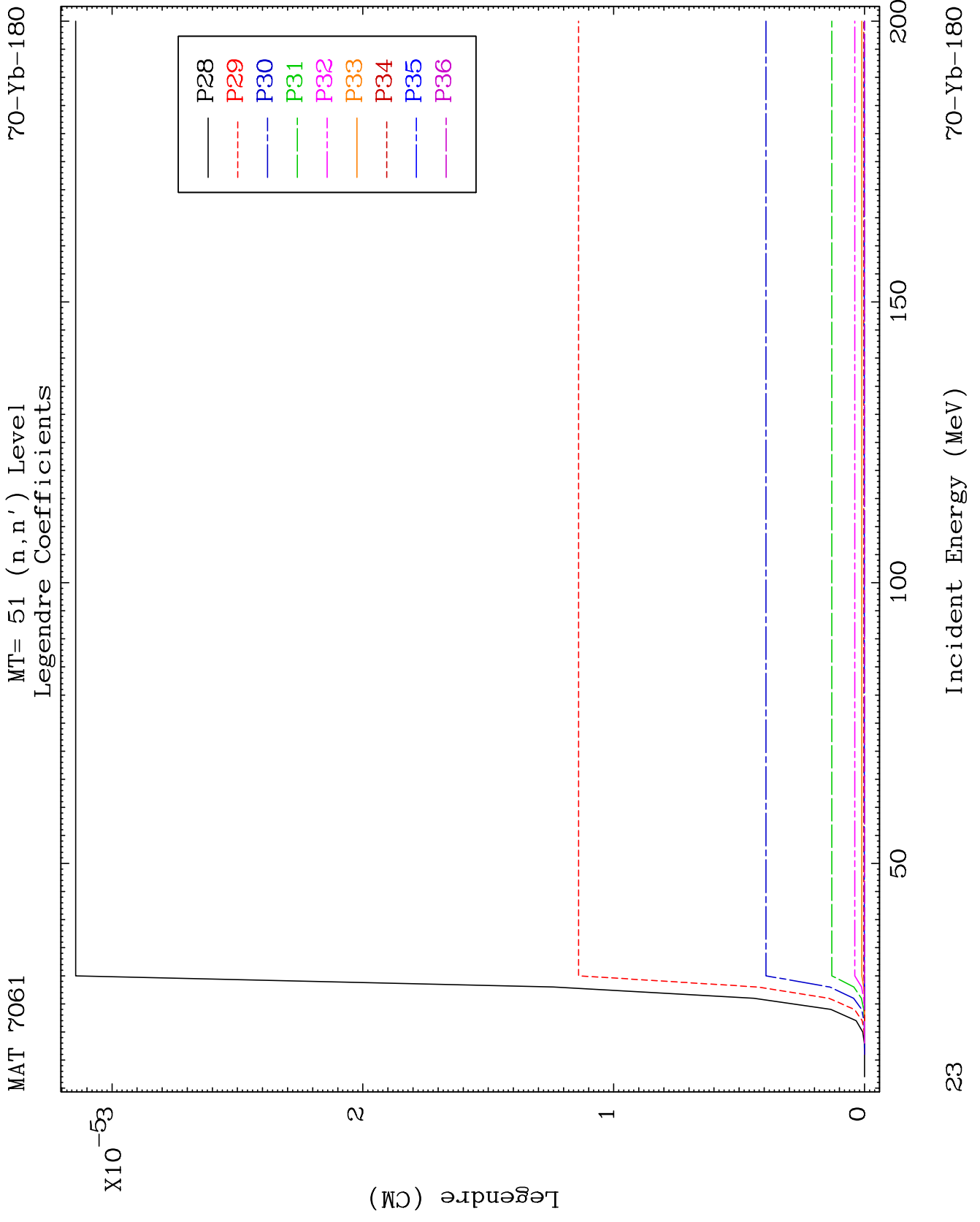
70-Yb-180

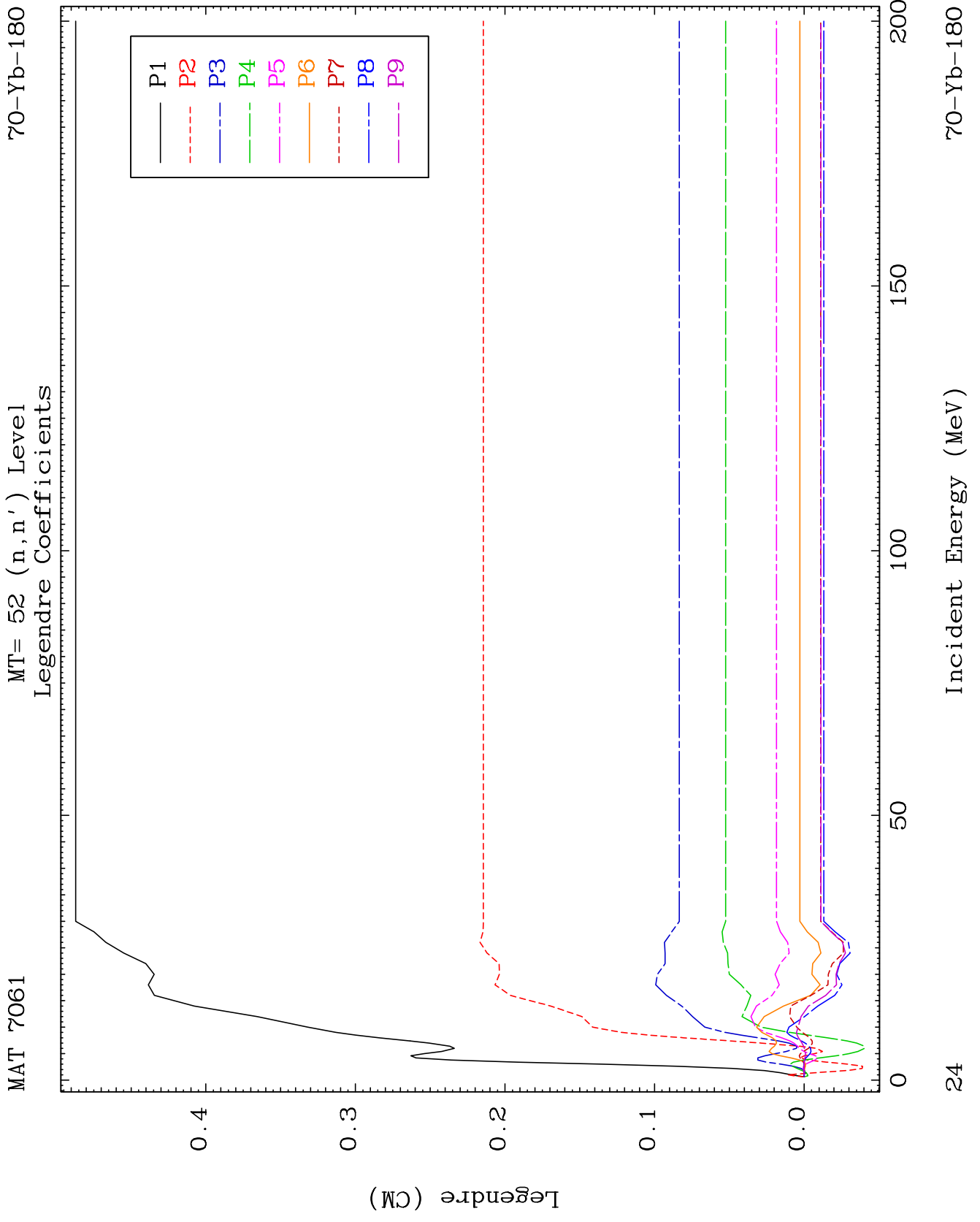


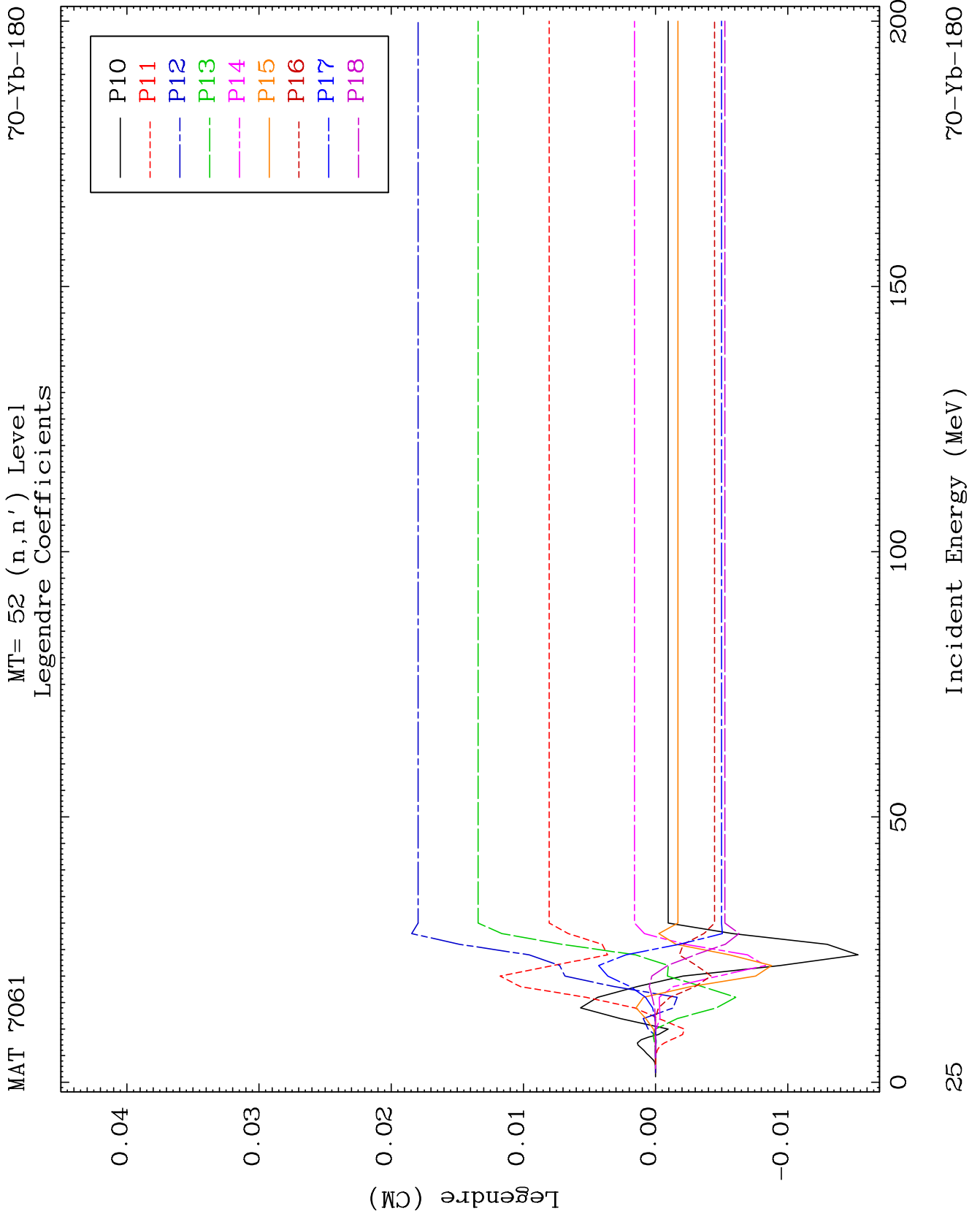








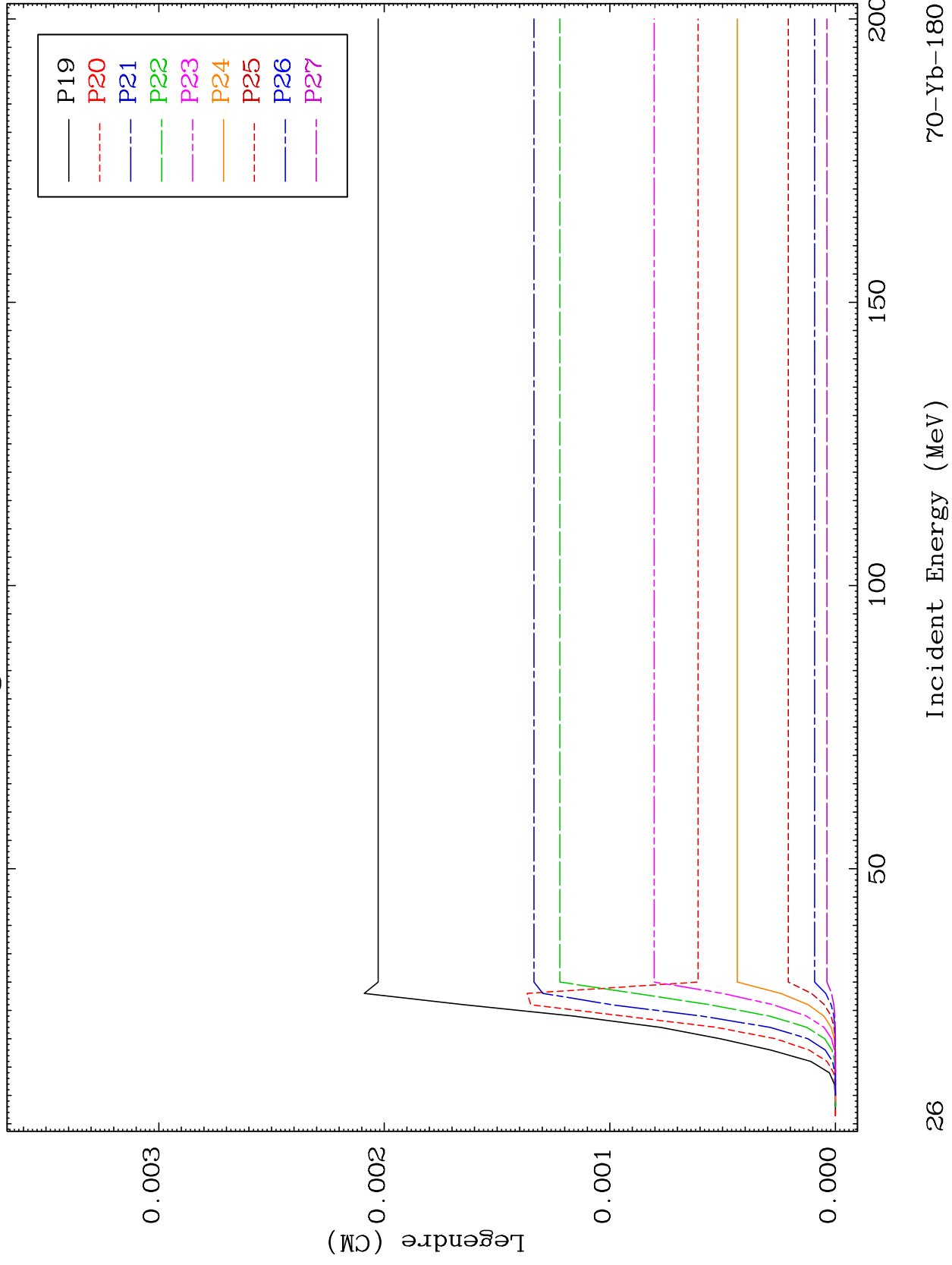




MAT 7061

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

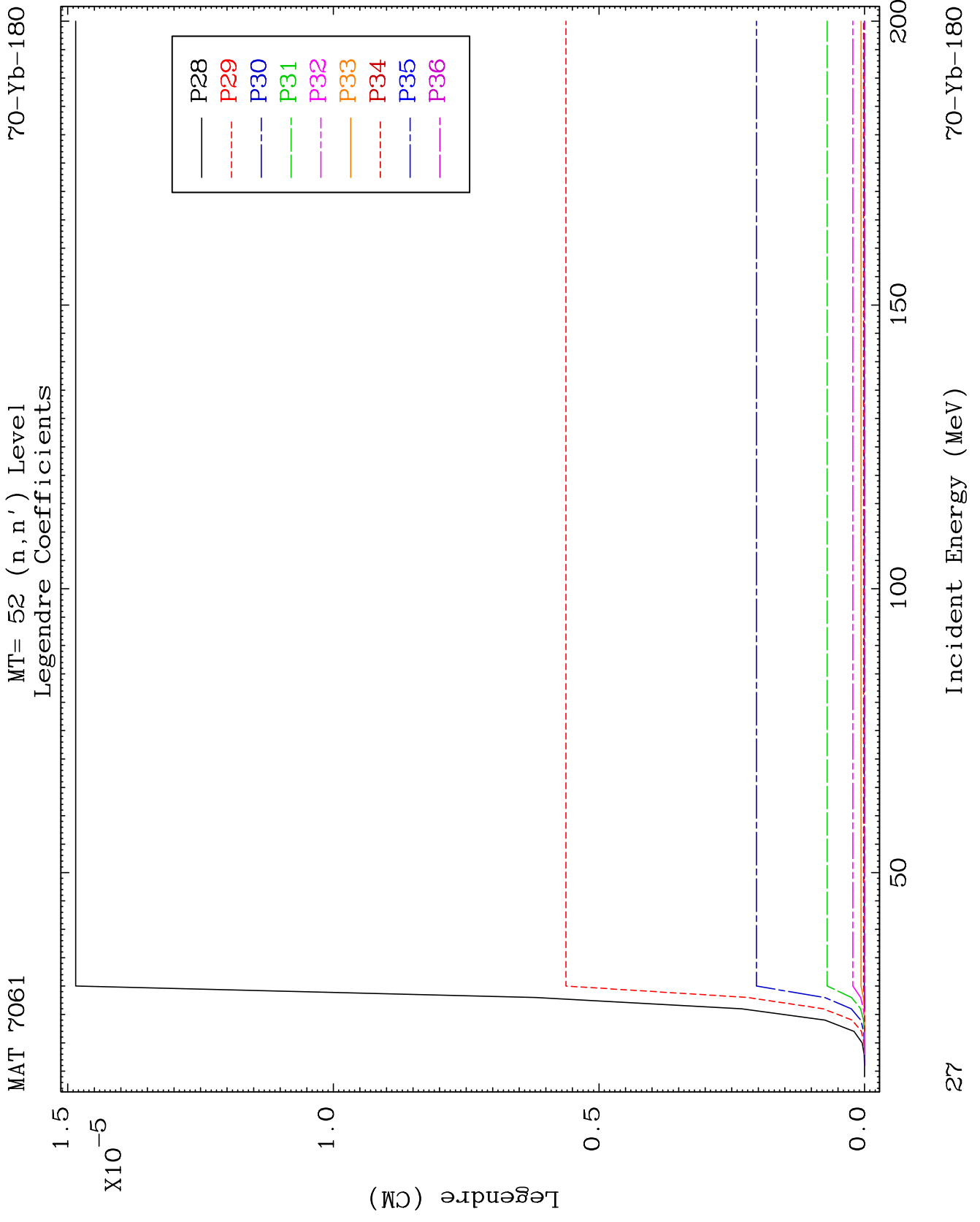
70-Yb-180



26

Incident Energy (MeV)

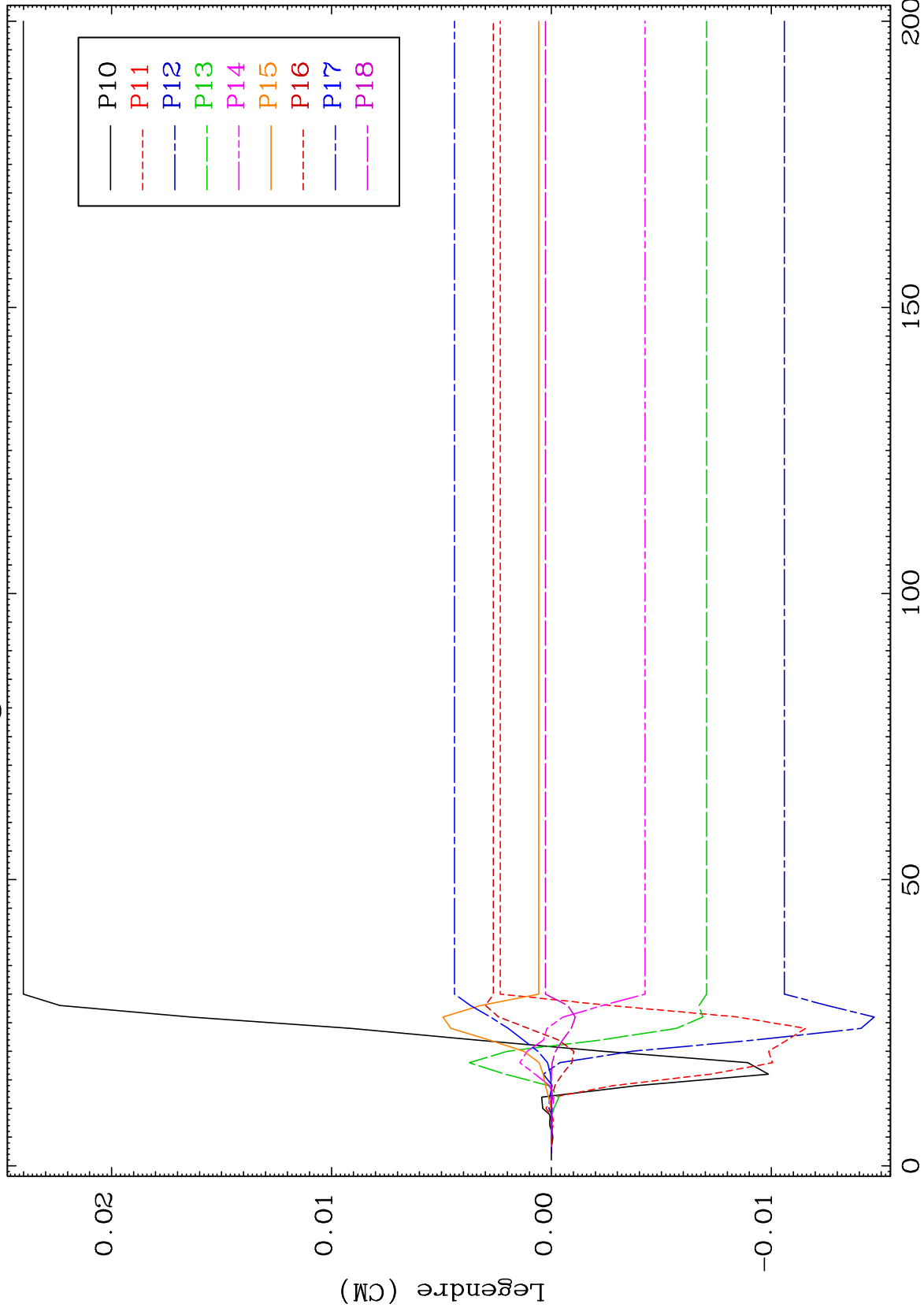
70-Yb-180



MAT 7061

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

70-Yb-180



29

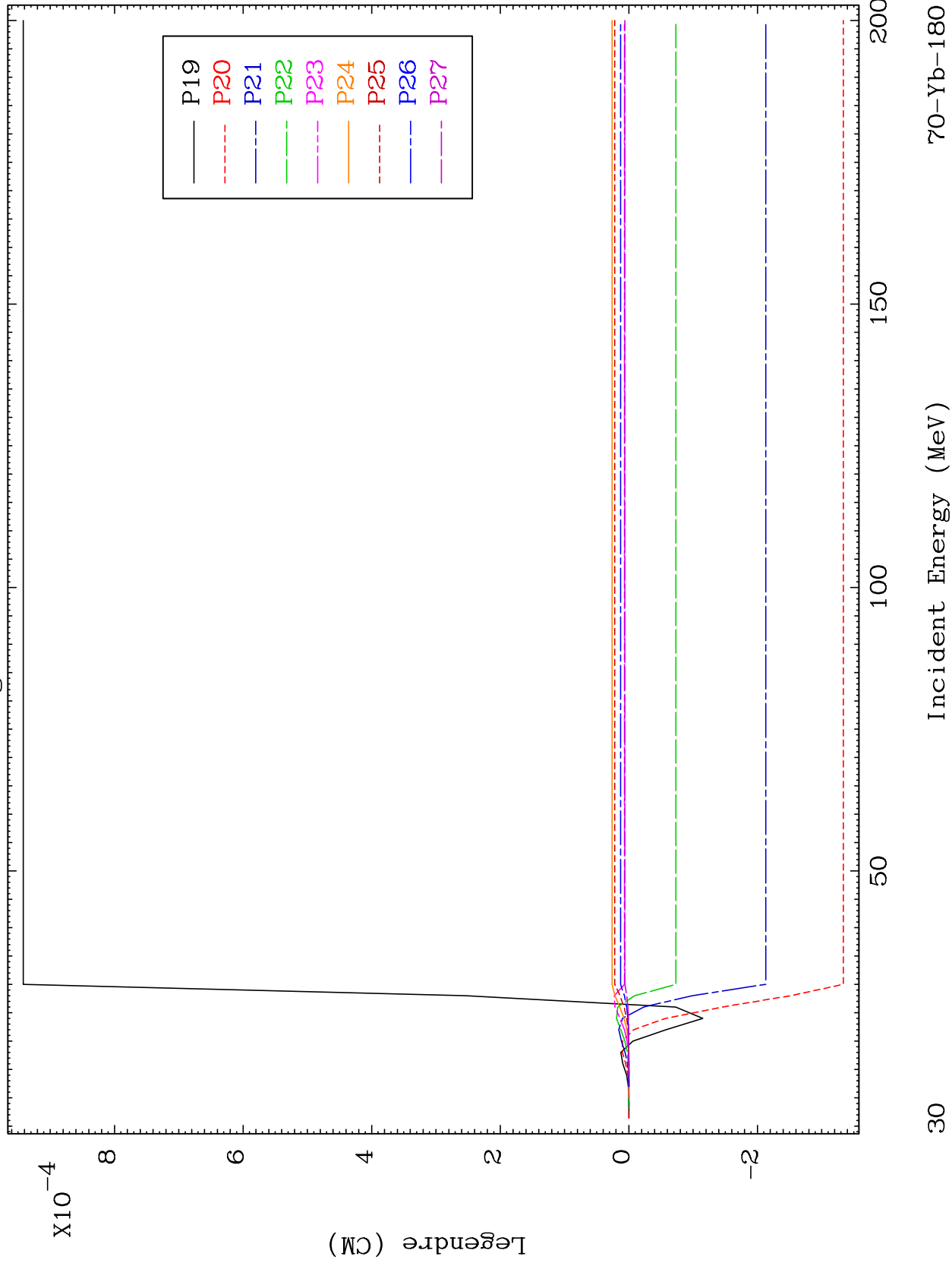
Incident Energy (MeV)

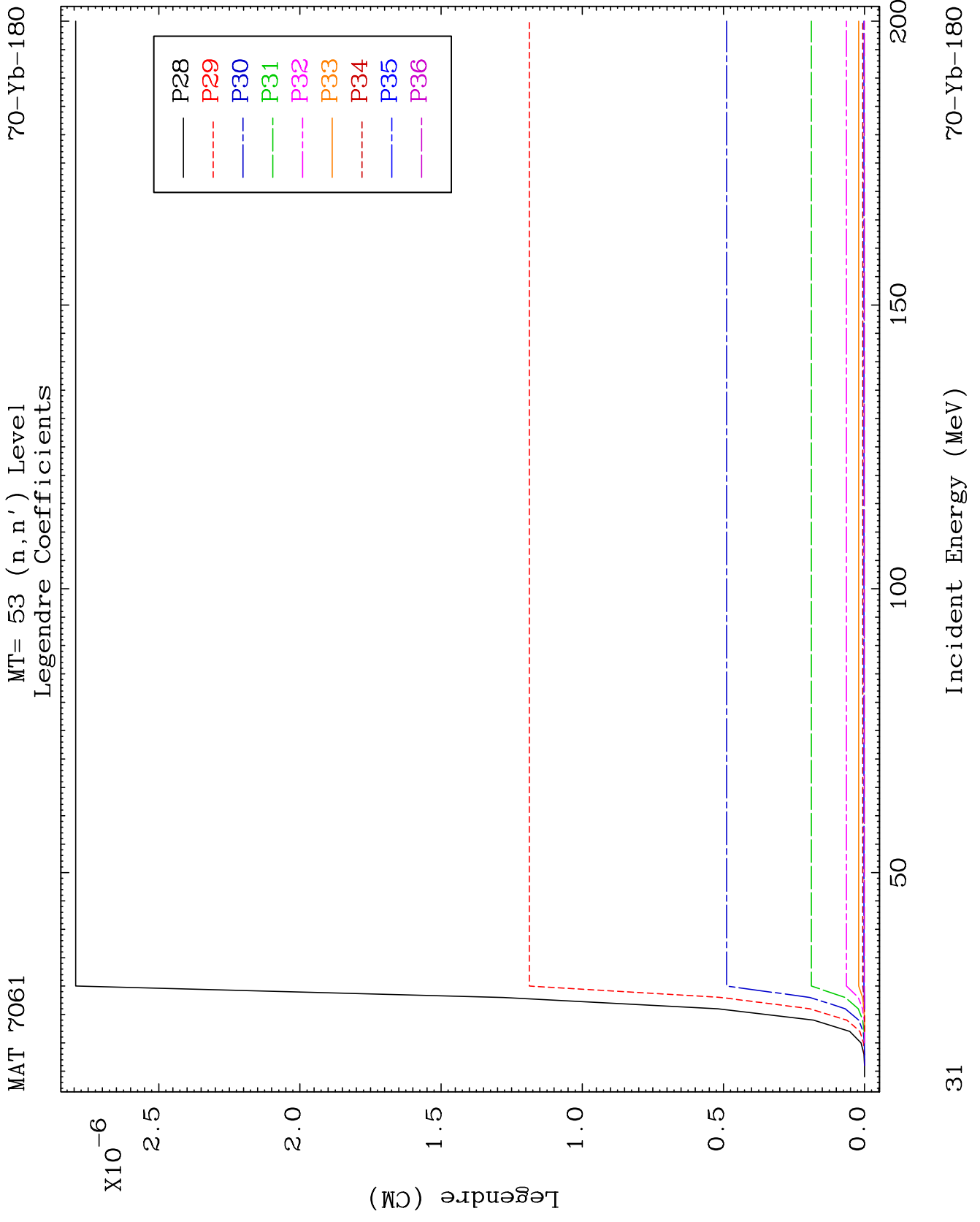
70-Yb-180

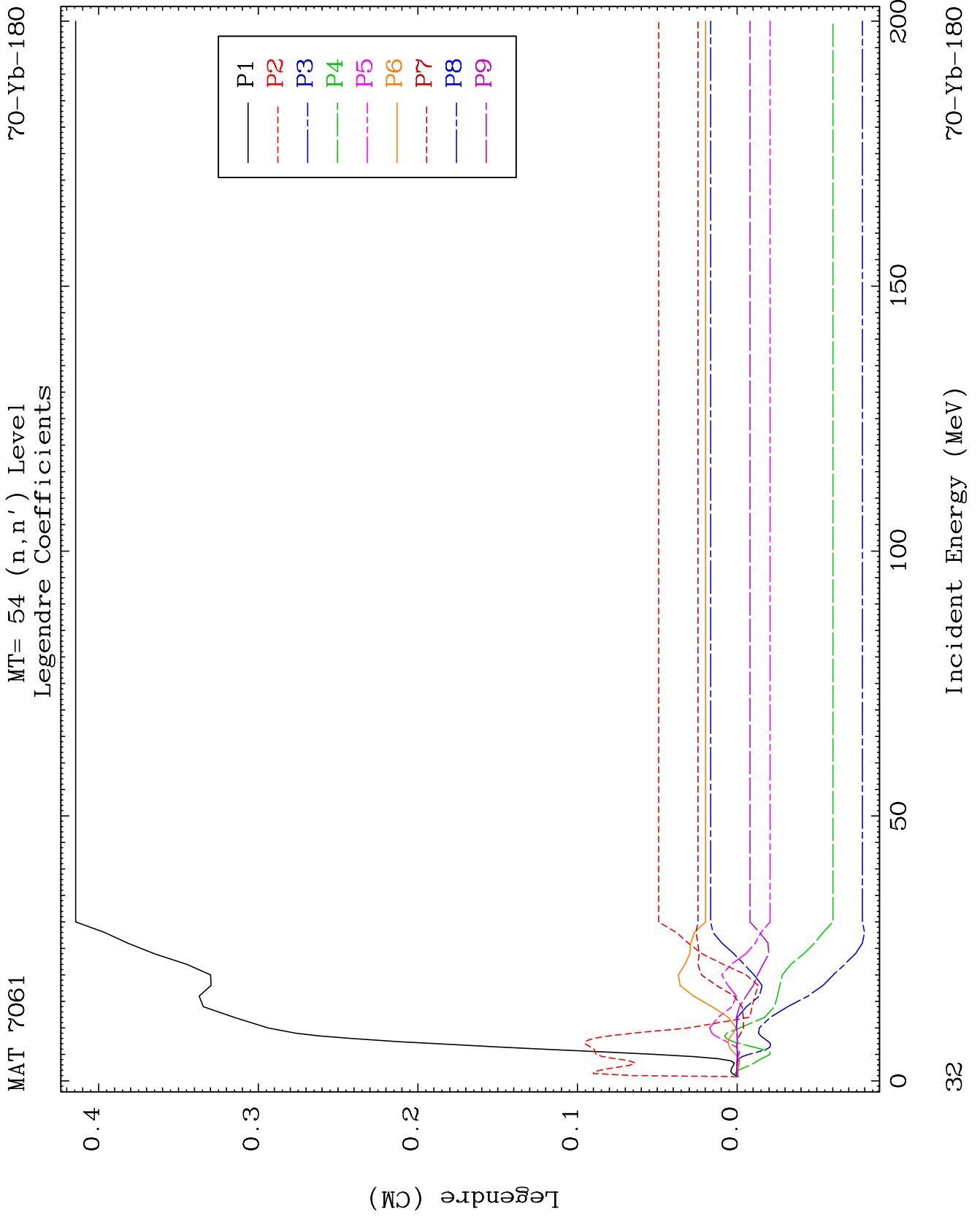
MAT 7061

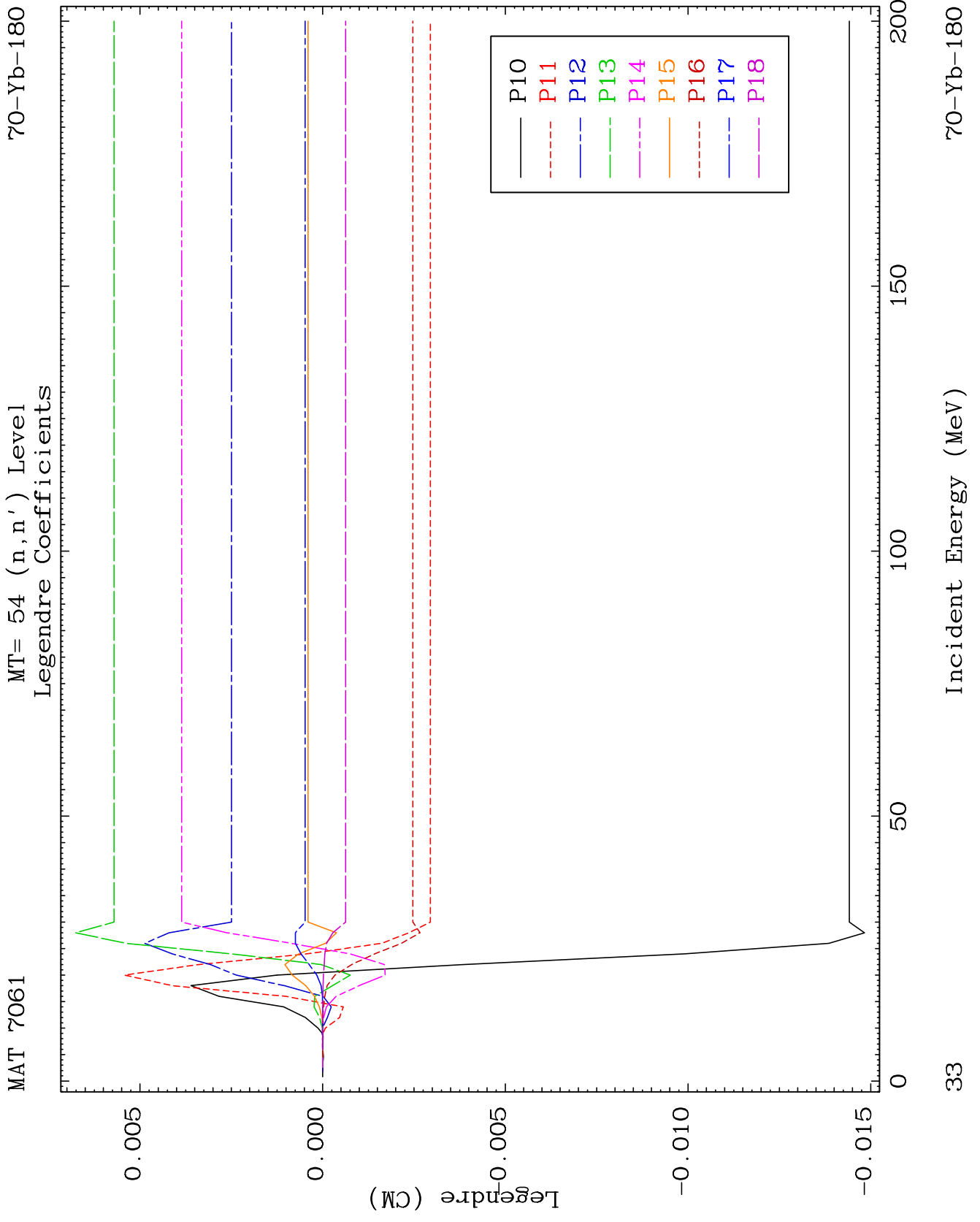
MT= 53 (n,n') Level
Legendre Coefficients

70-Yb-180





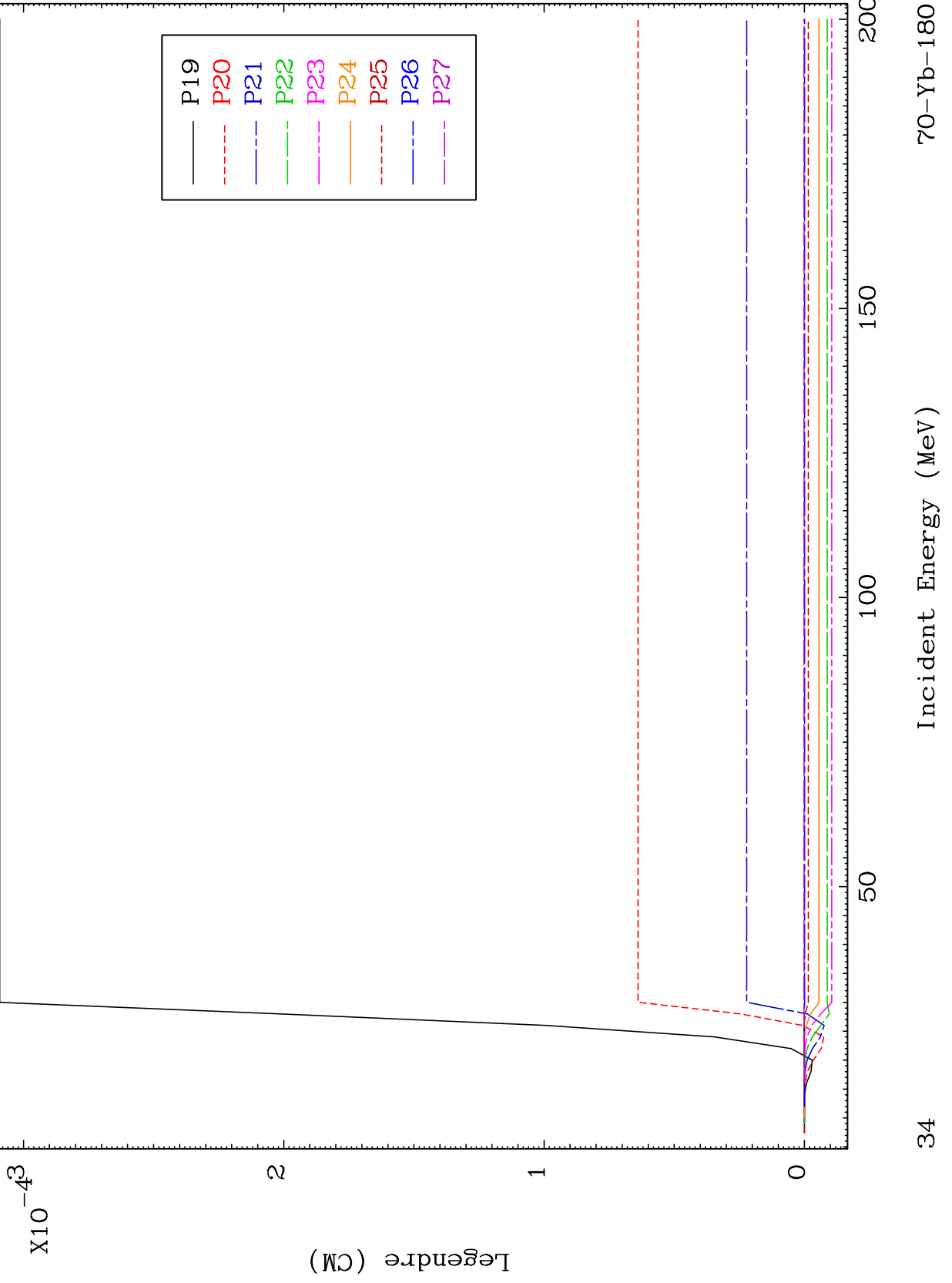




MAT 7061

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

70-Yb-180

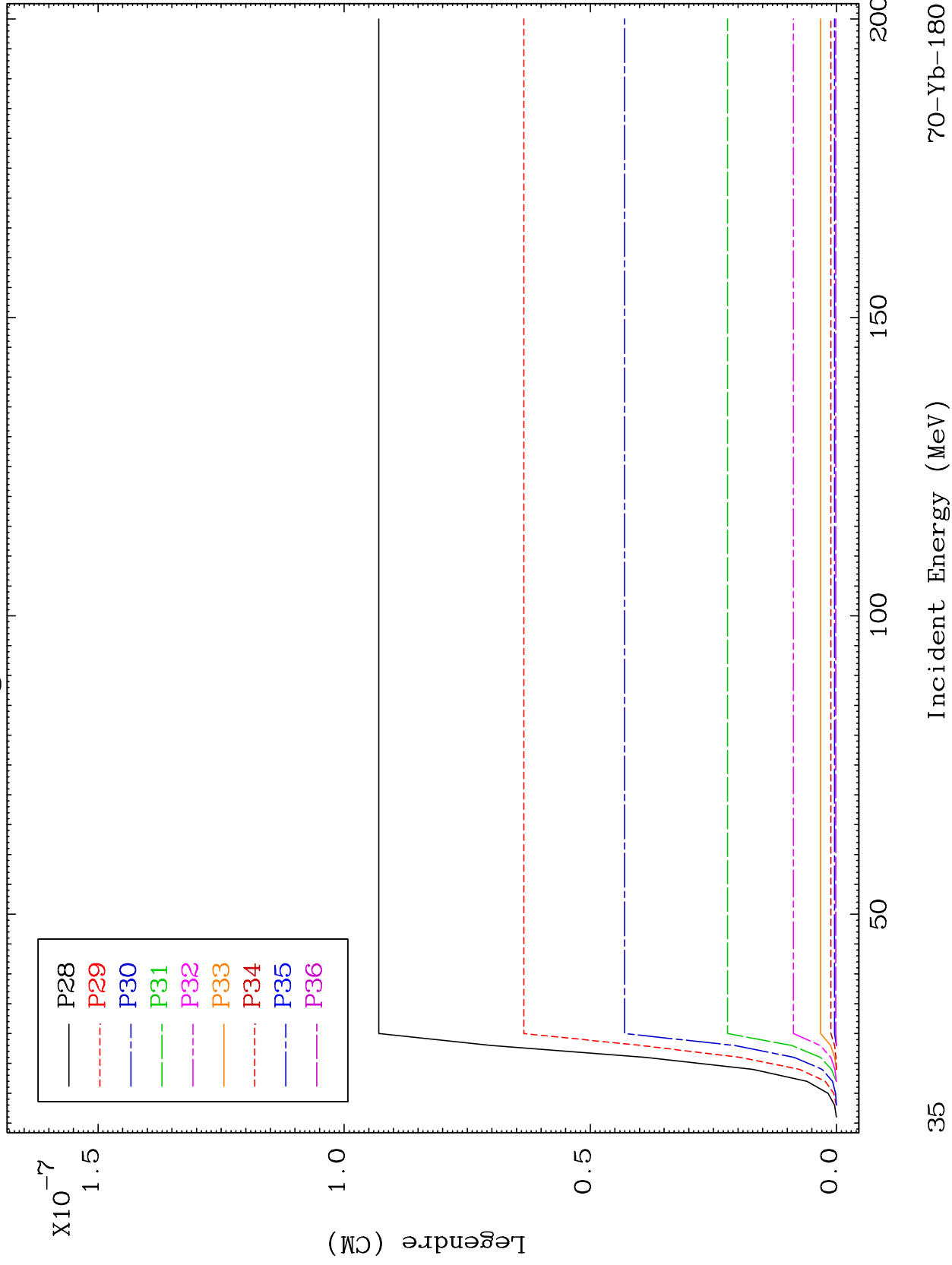


34

MAT 7061

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

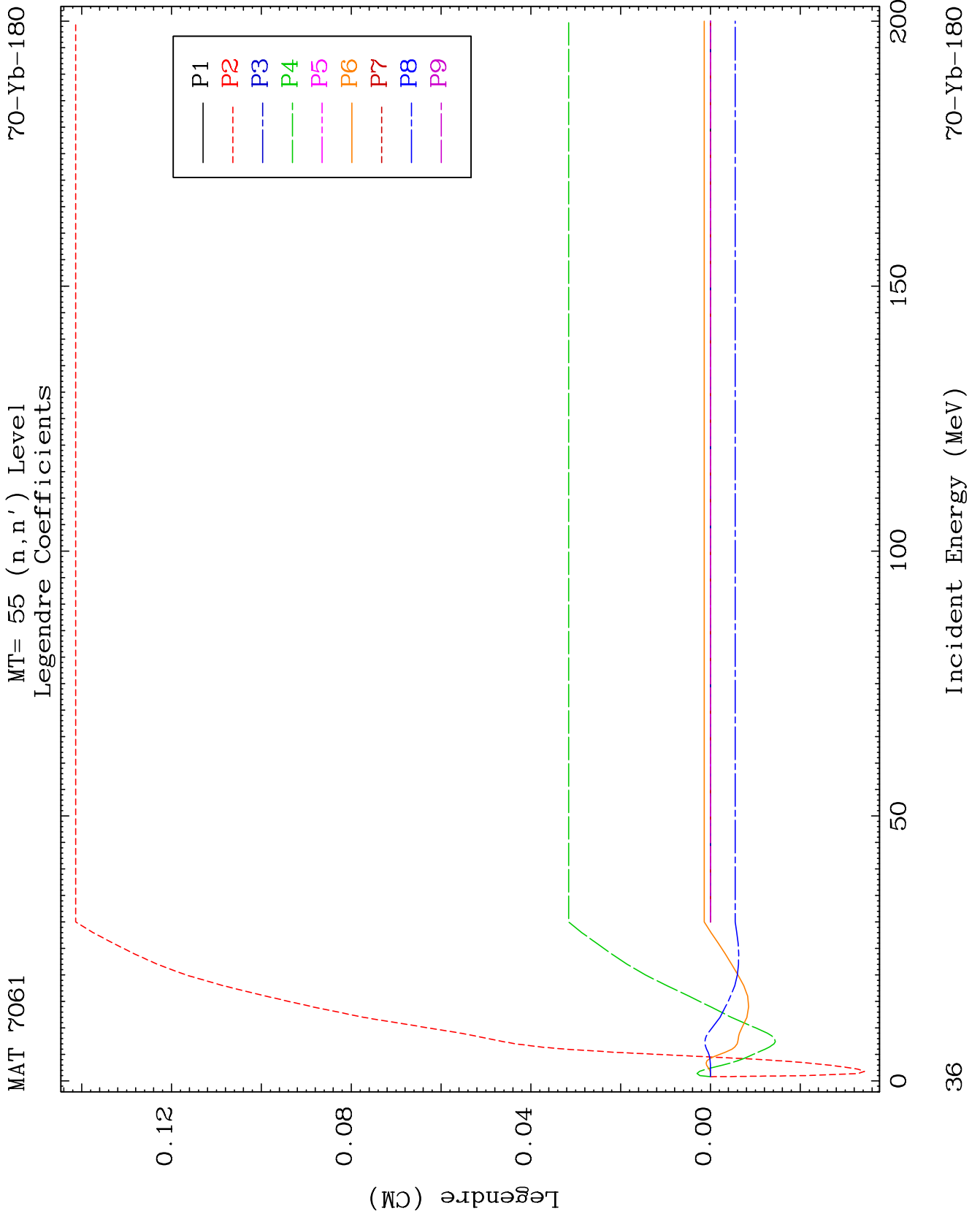
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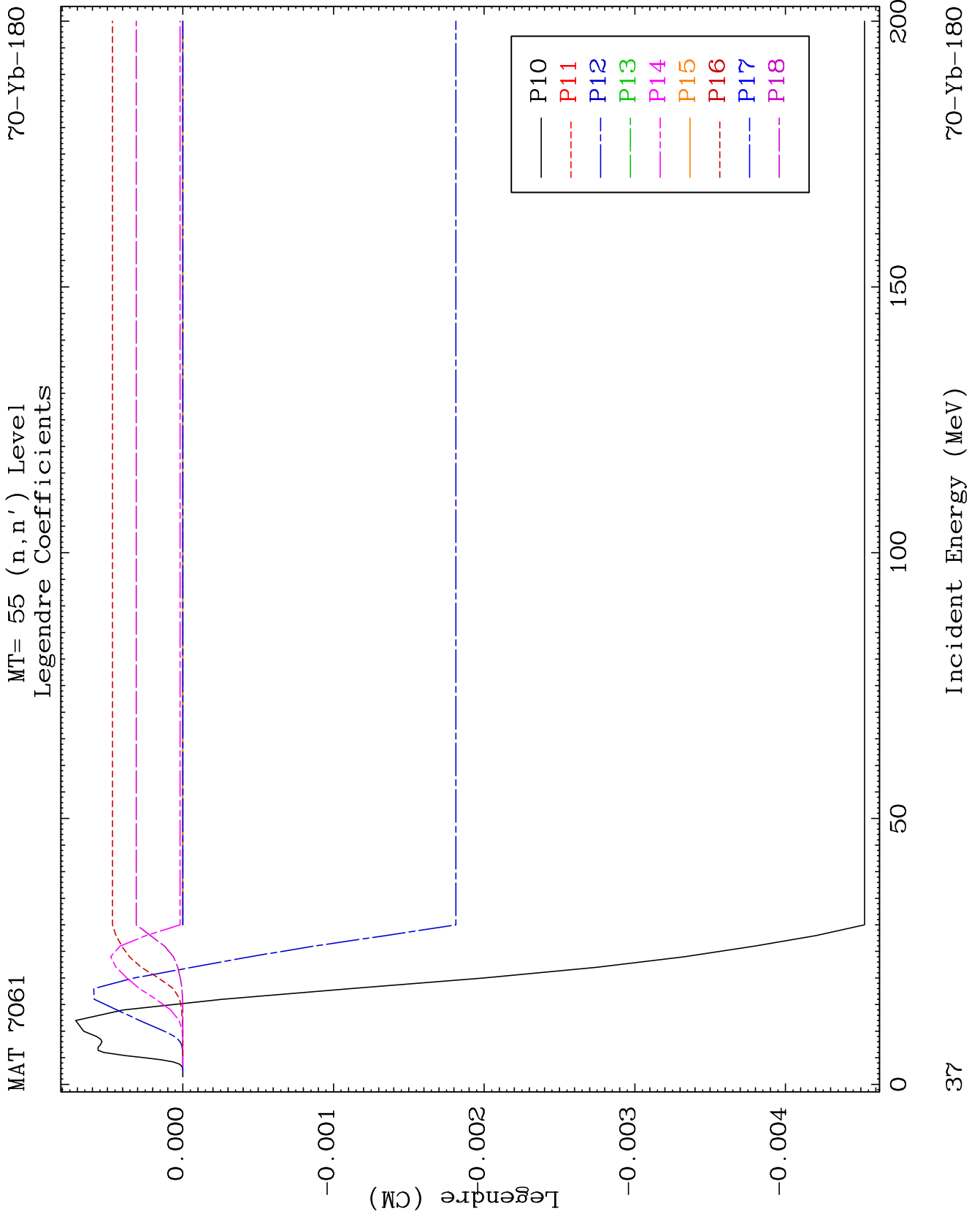


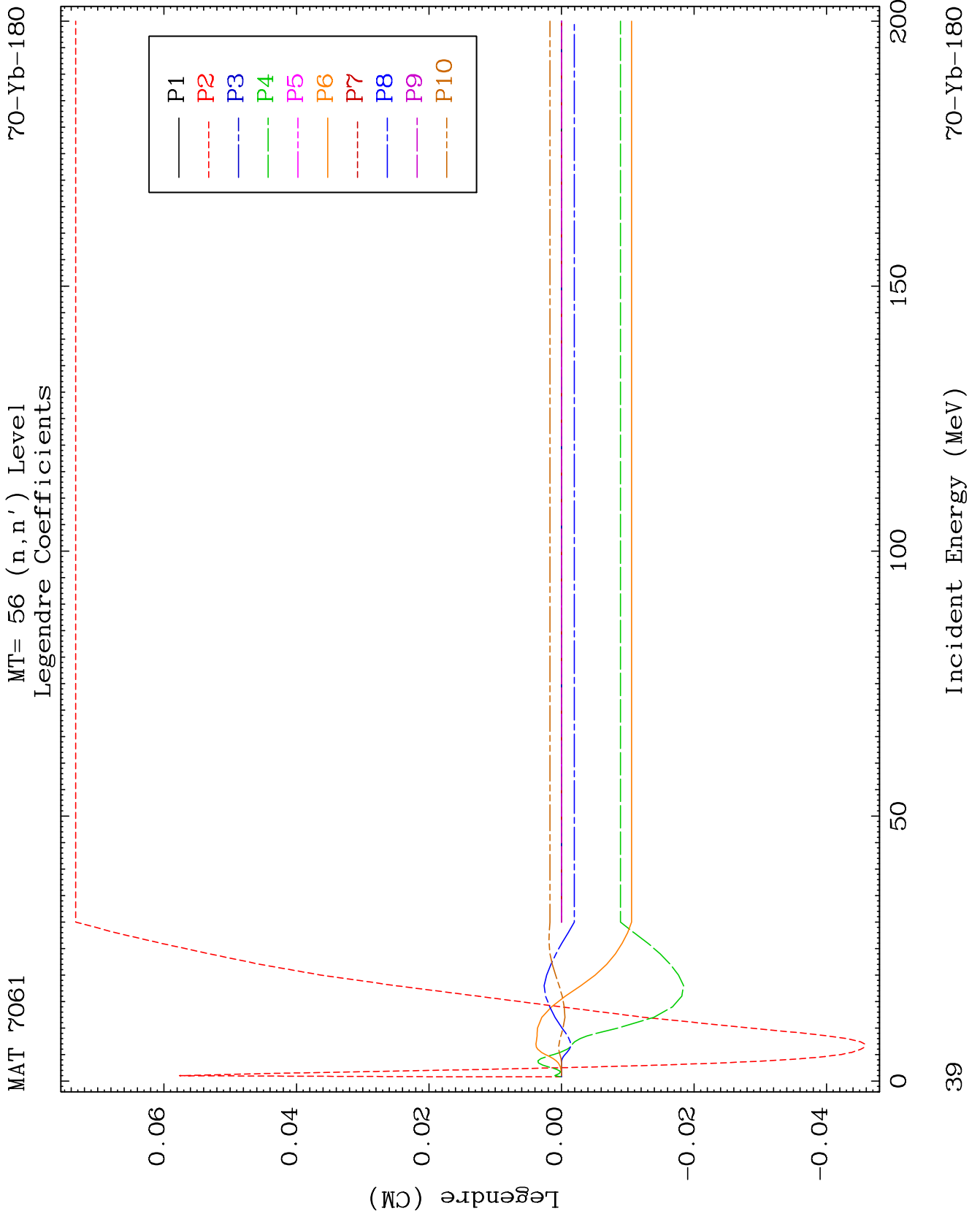
35

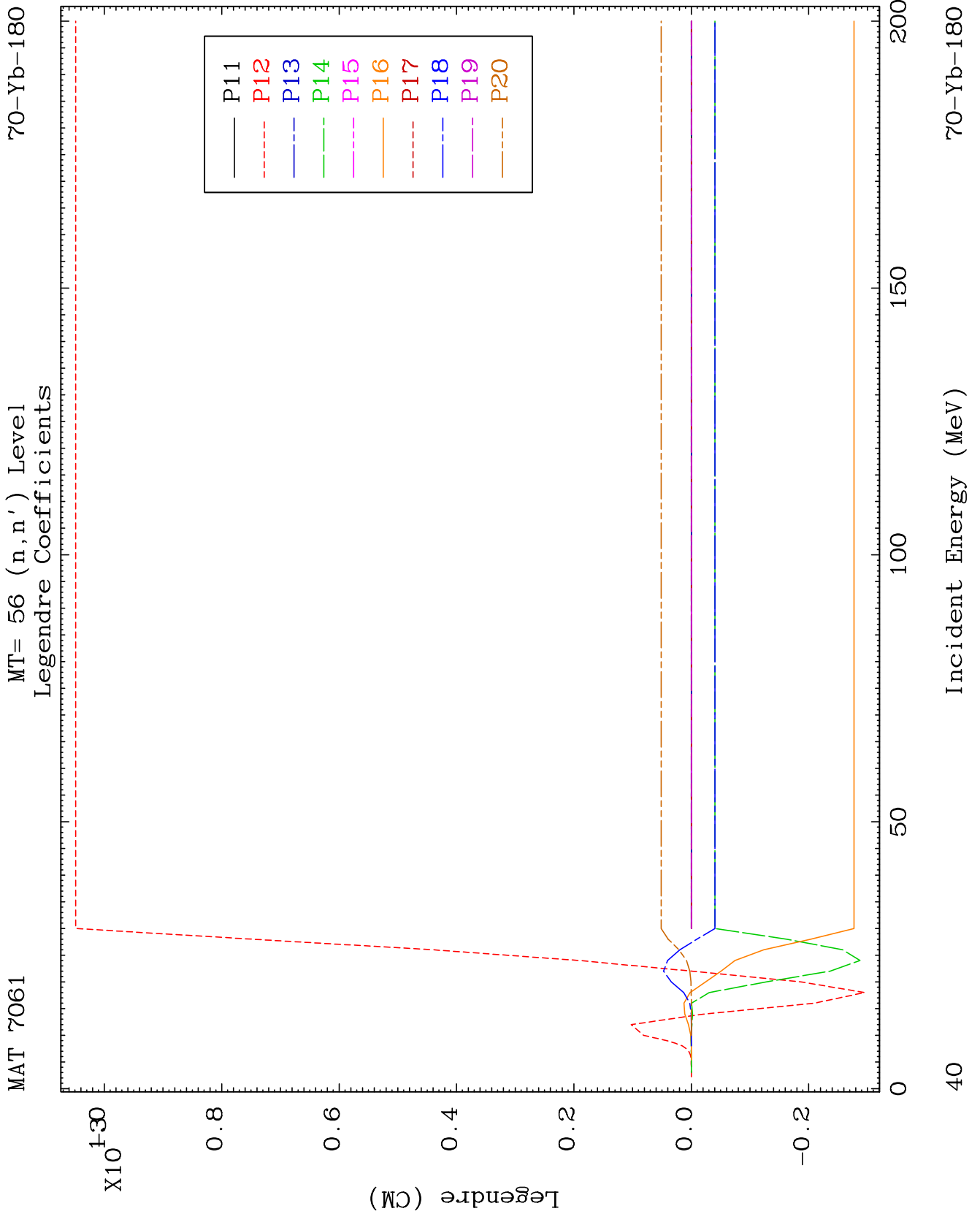
Incident Energy (MeV)

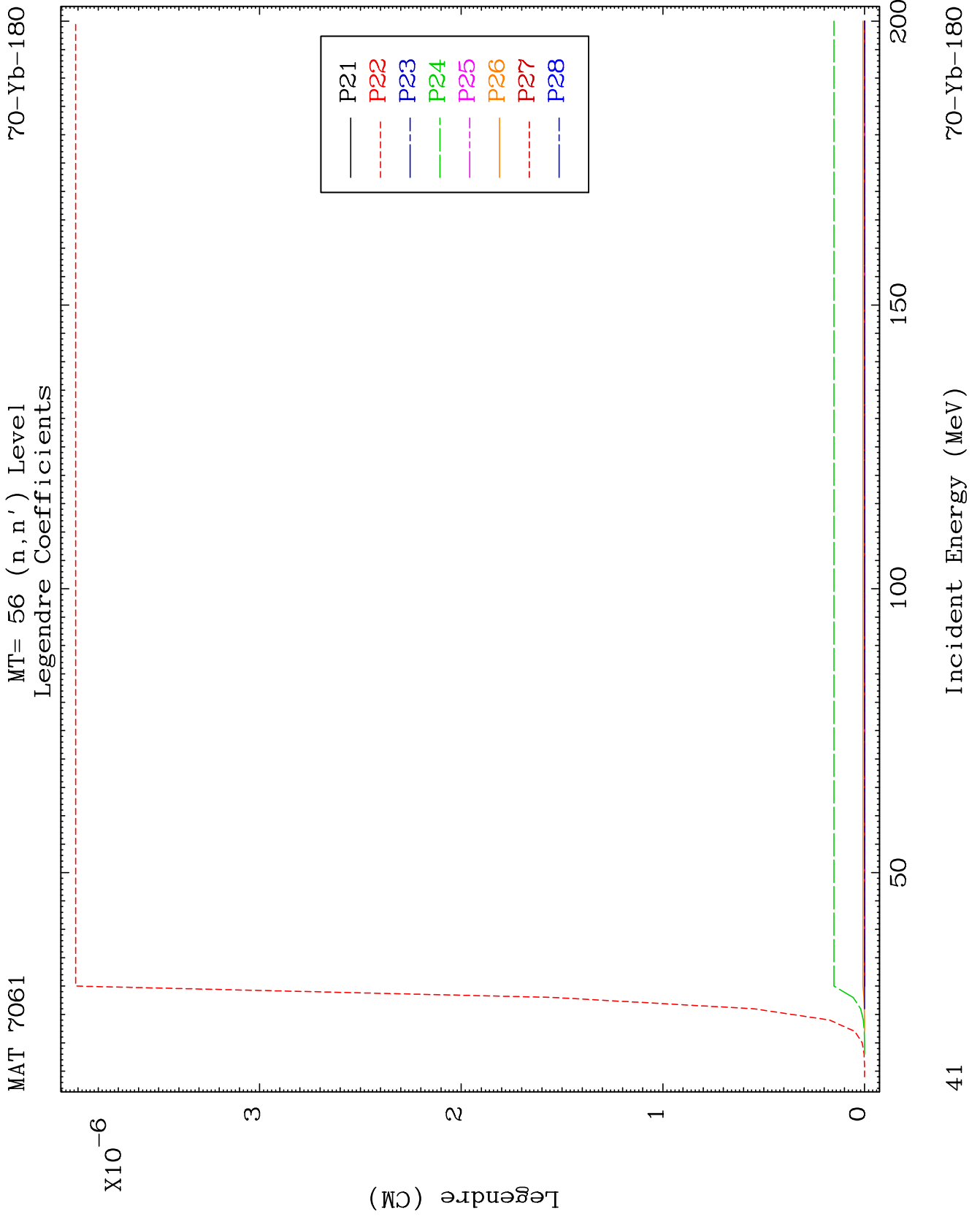
70-Yb-180

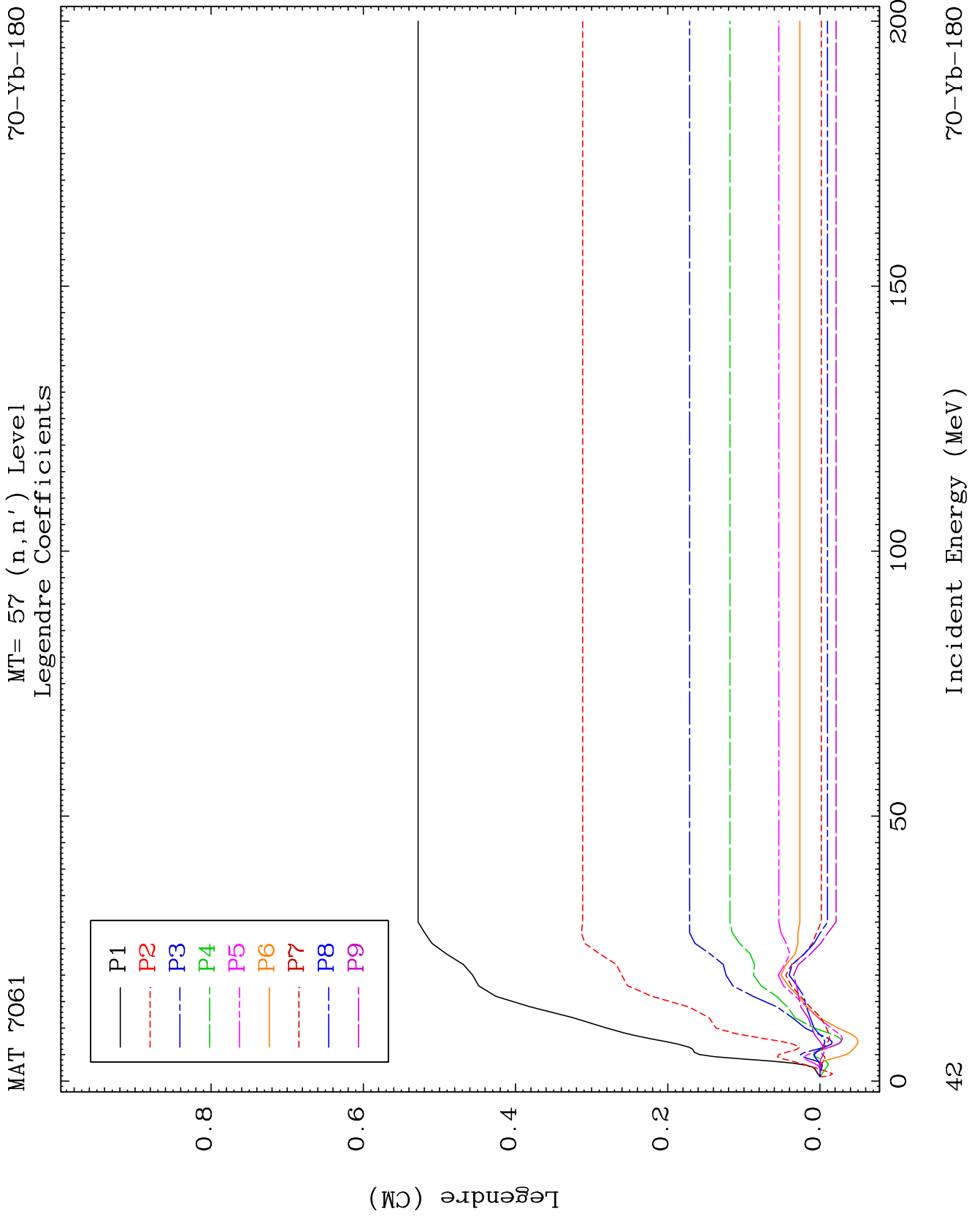


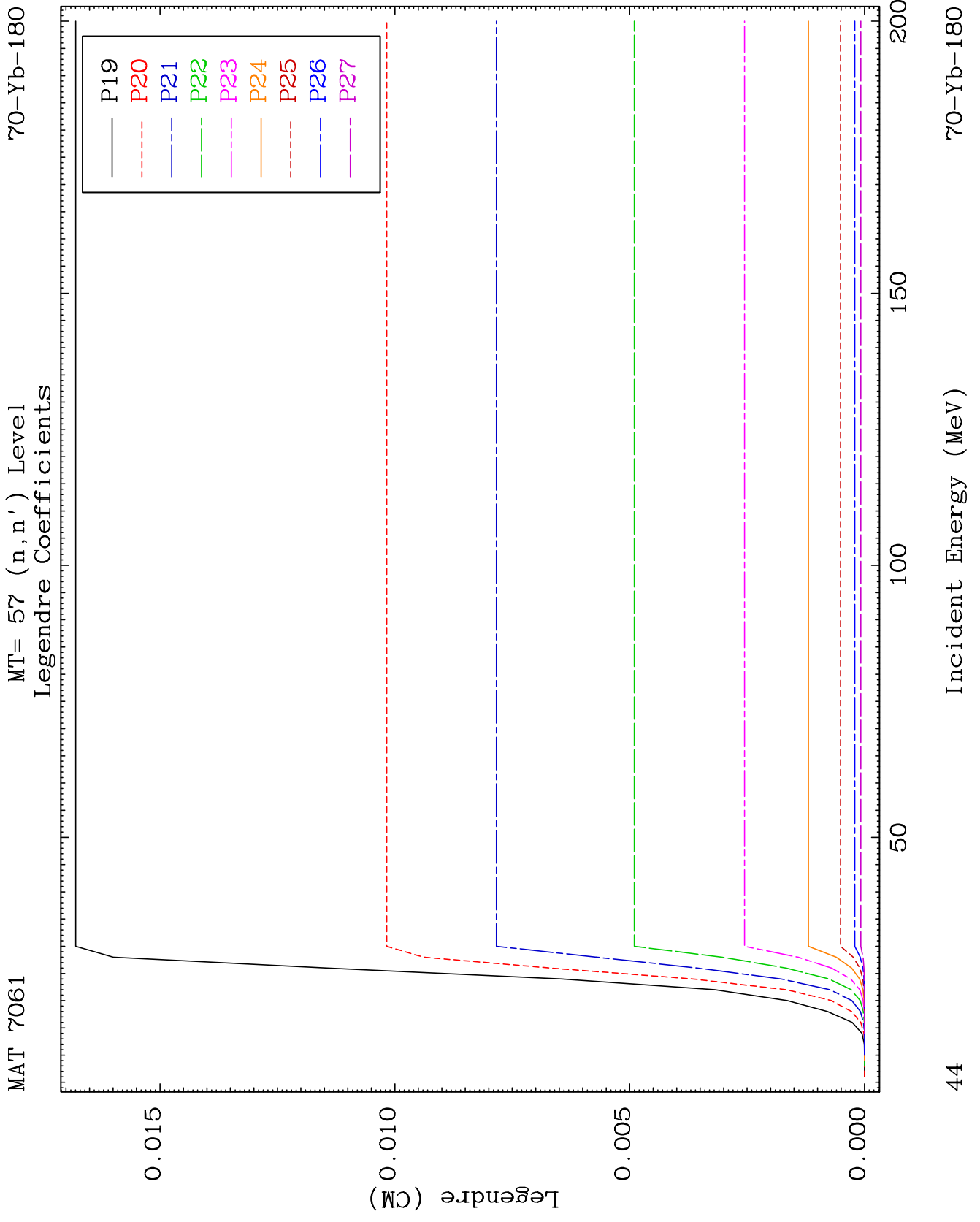


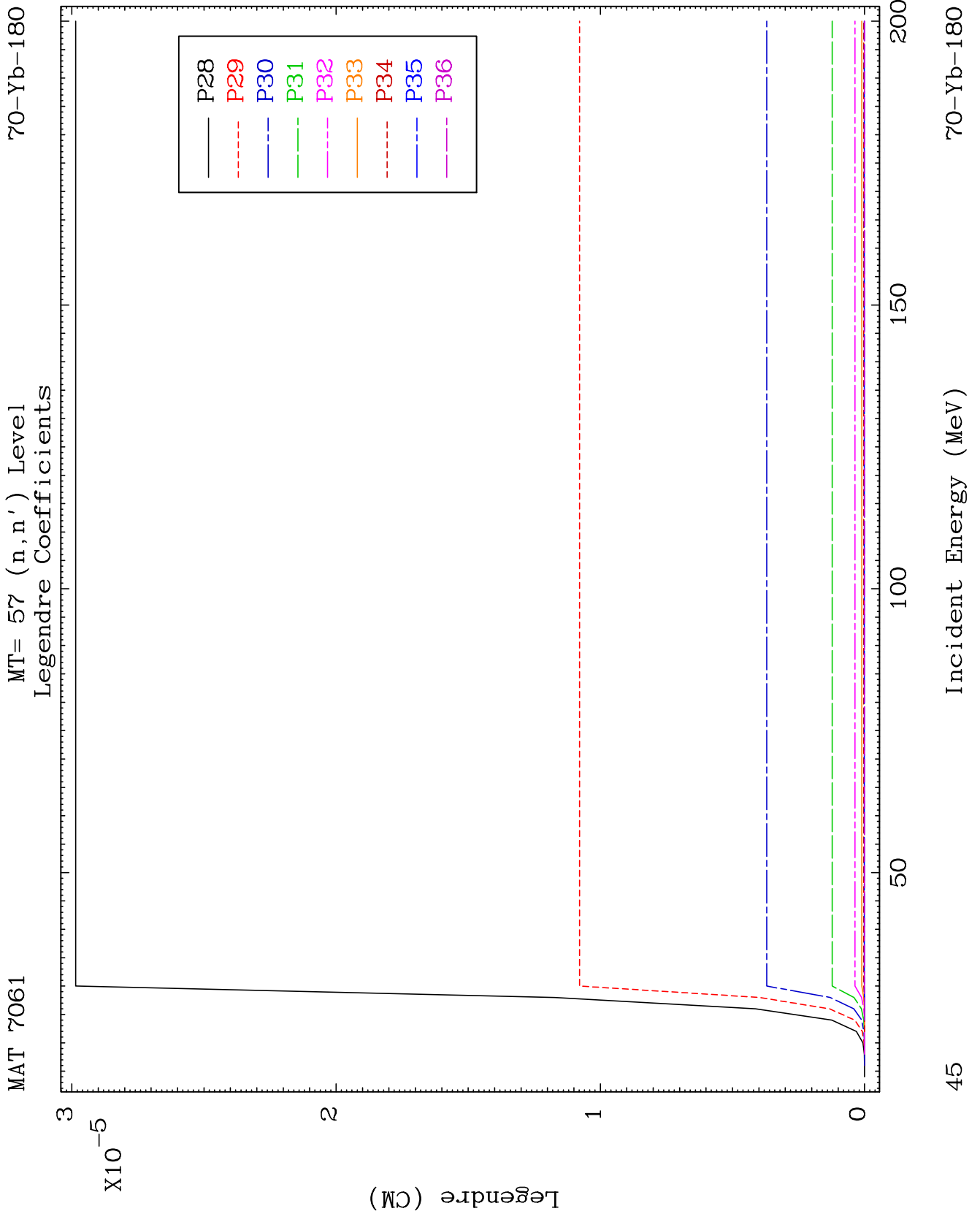


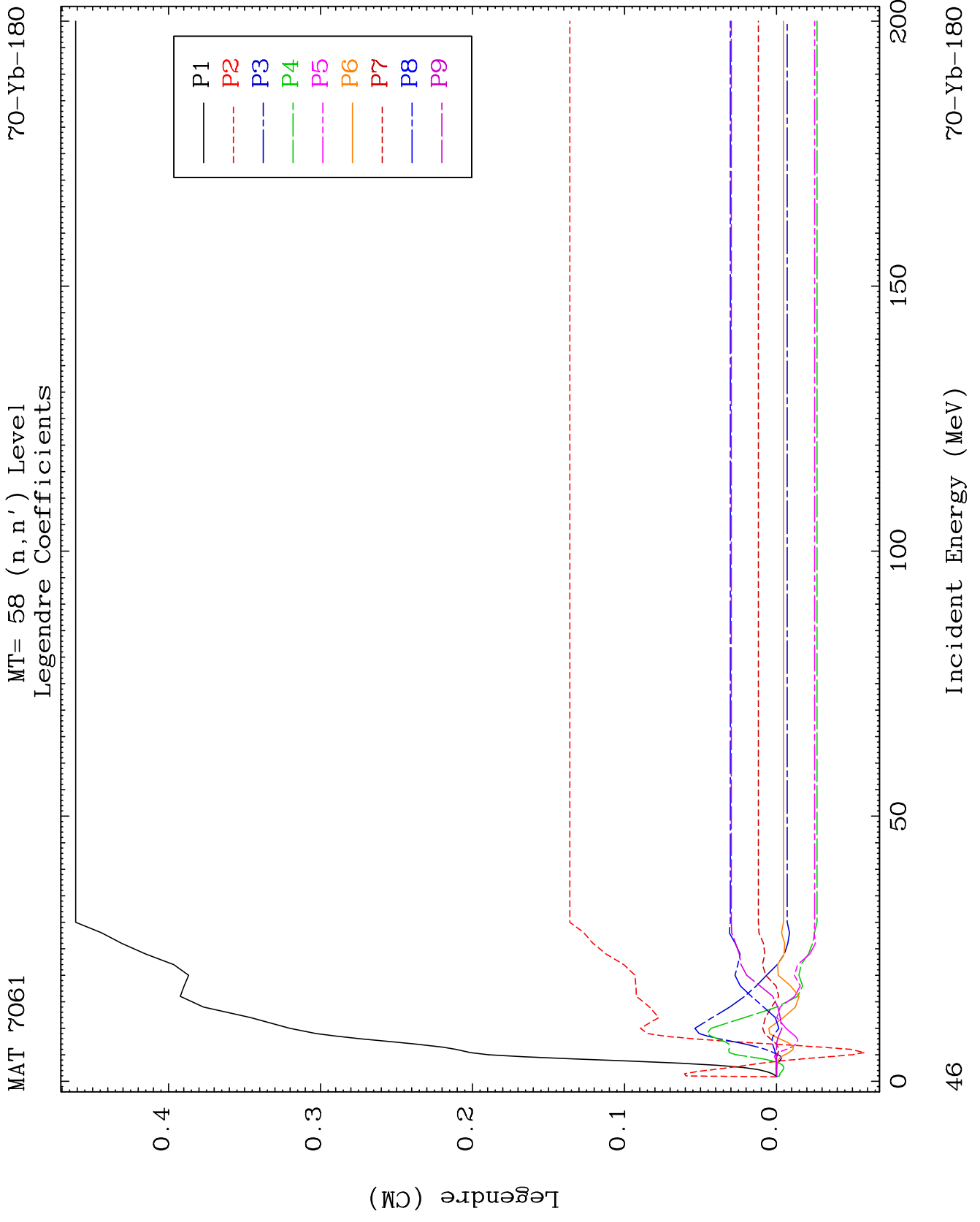








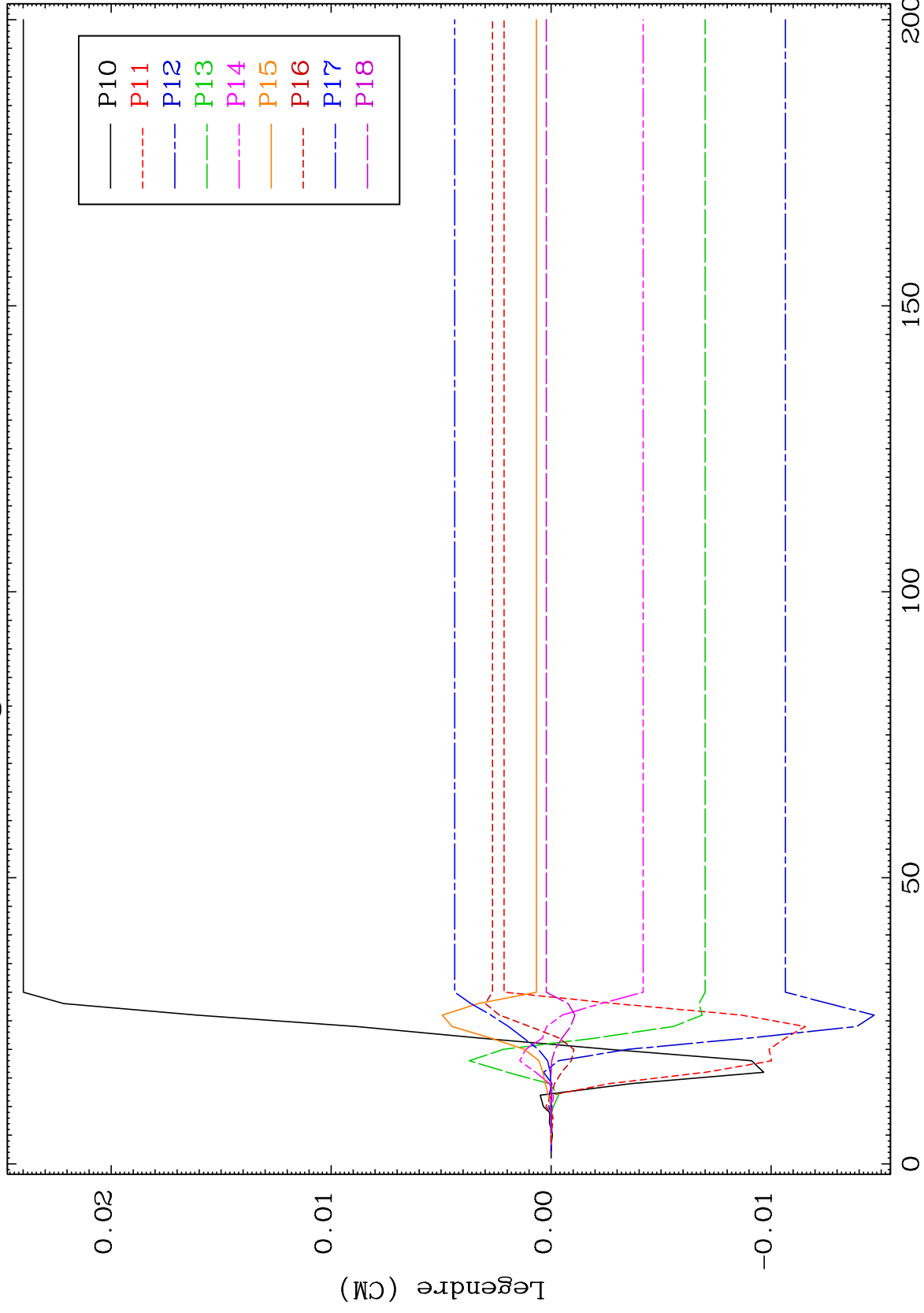




MAT 7061

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

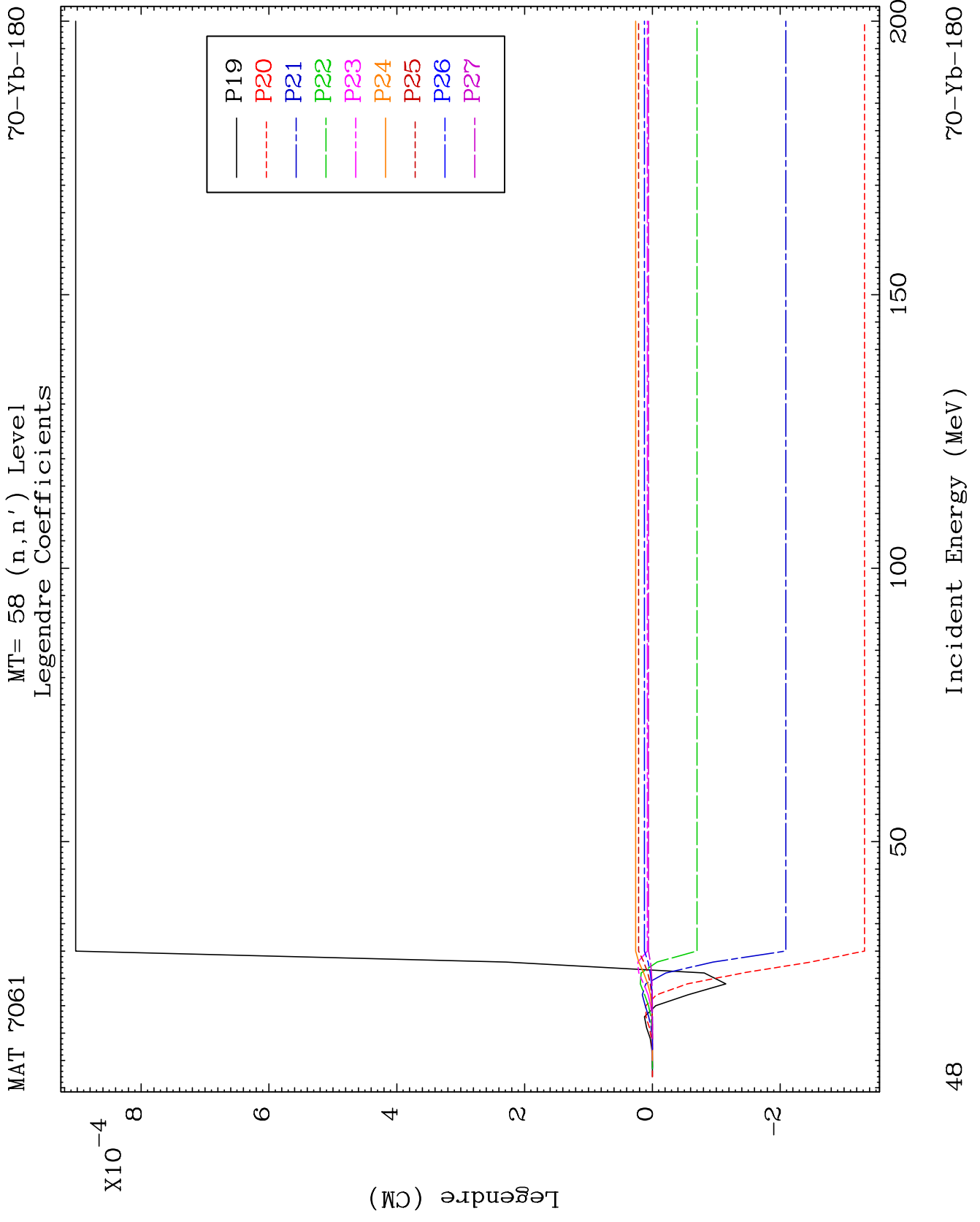
70-Yb-180

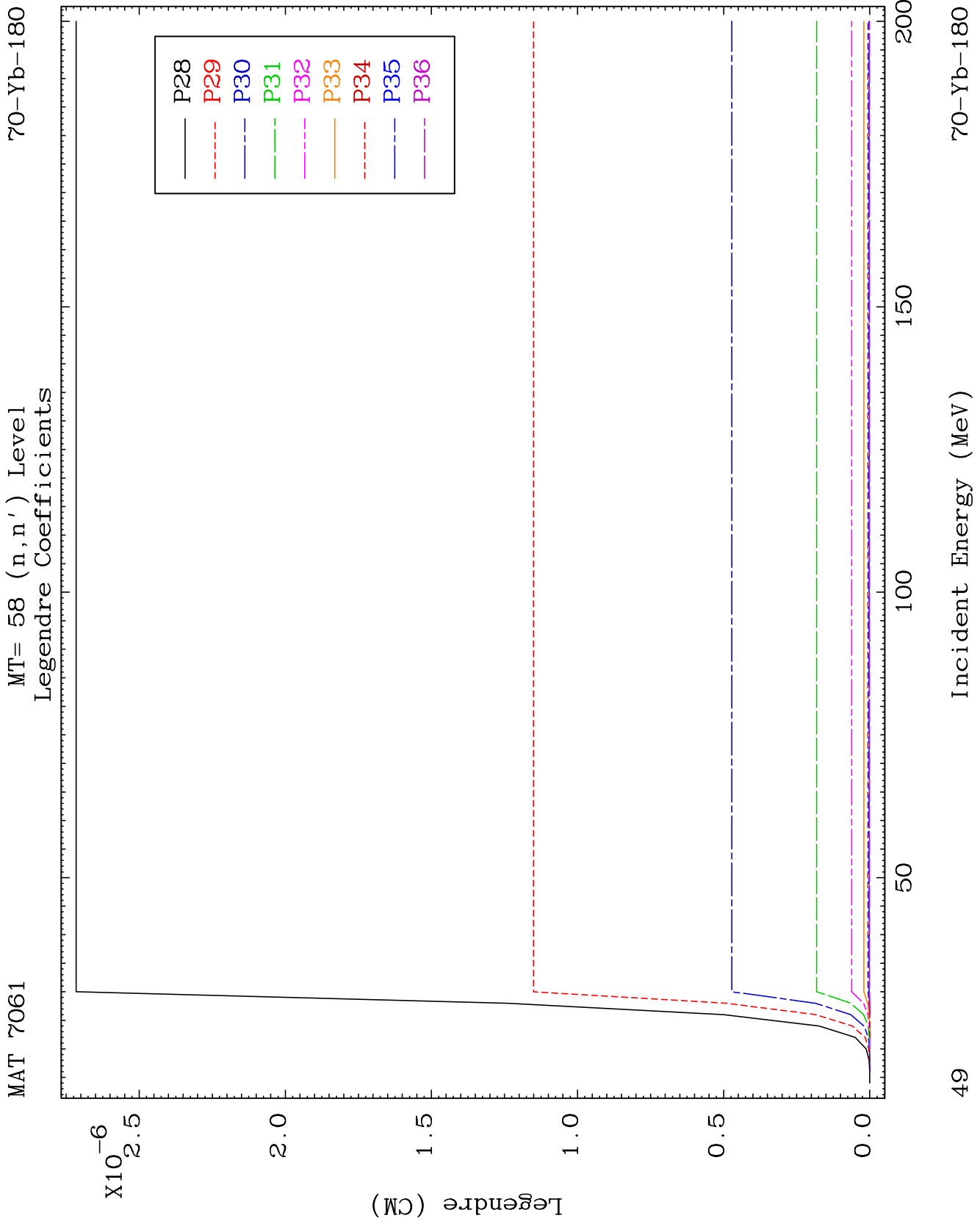


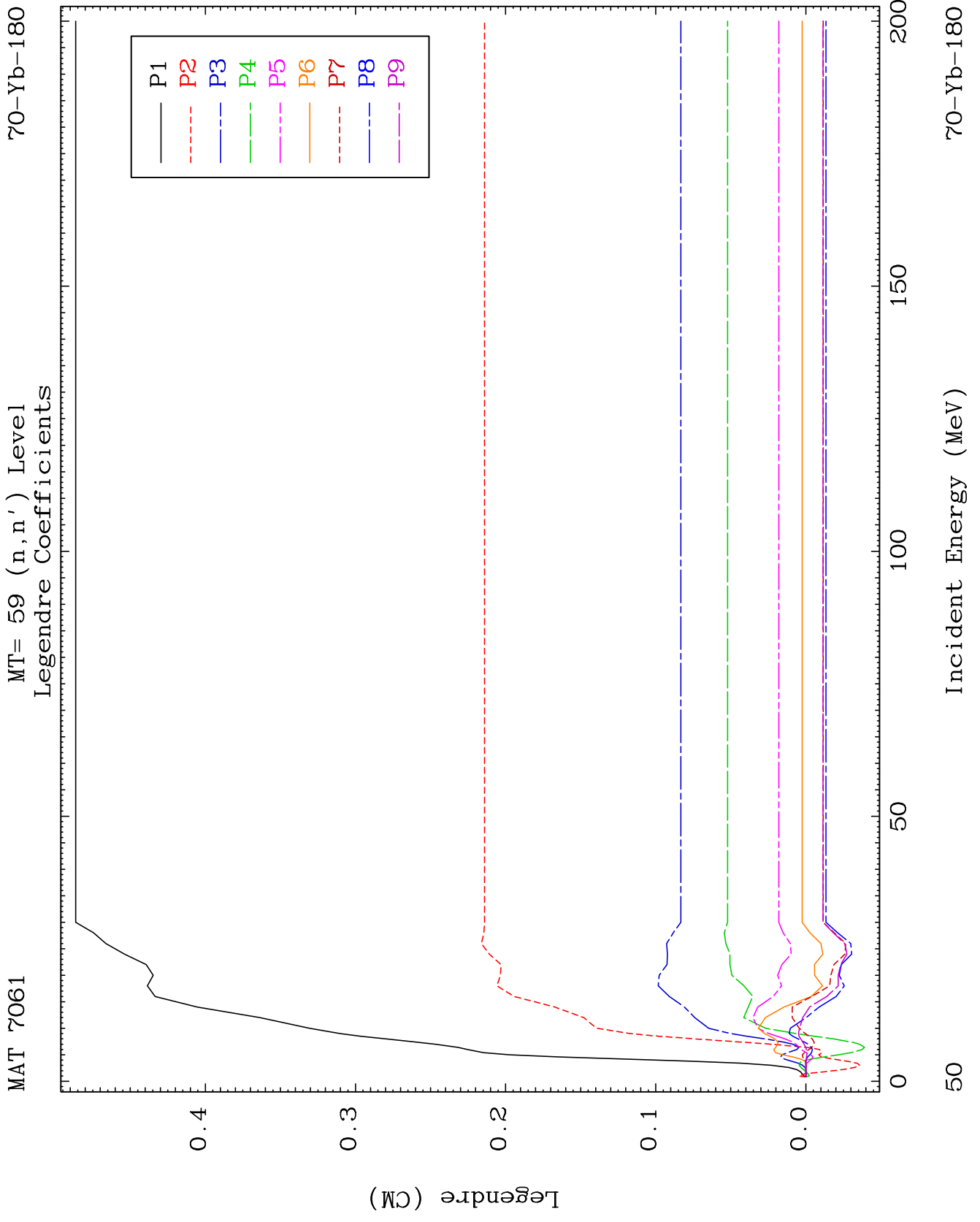
47

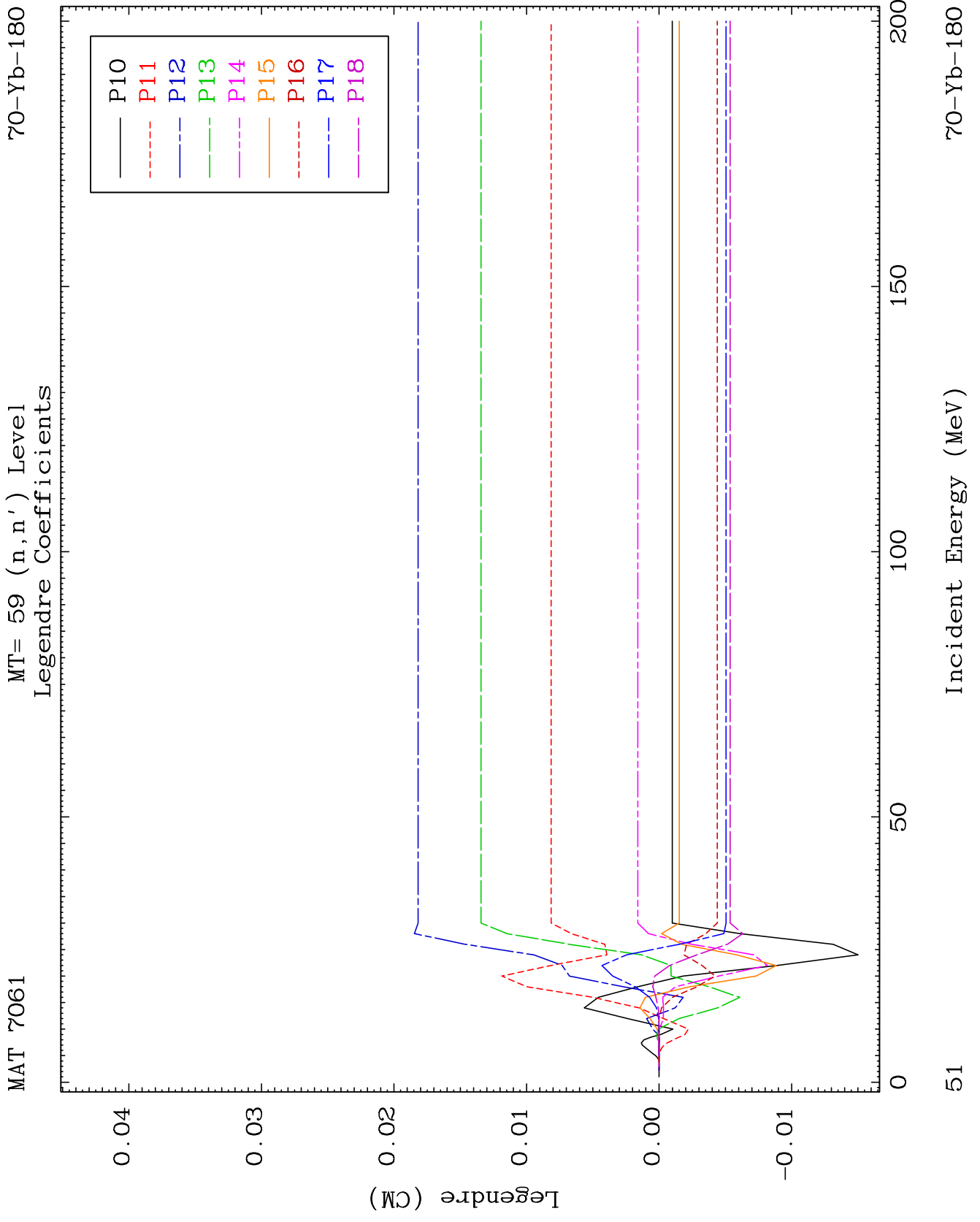
Incident Energy (MeV)

70-Yb-180





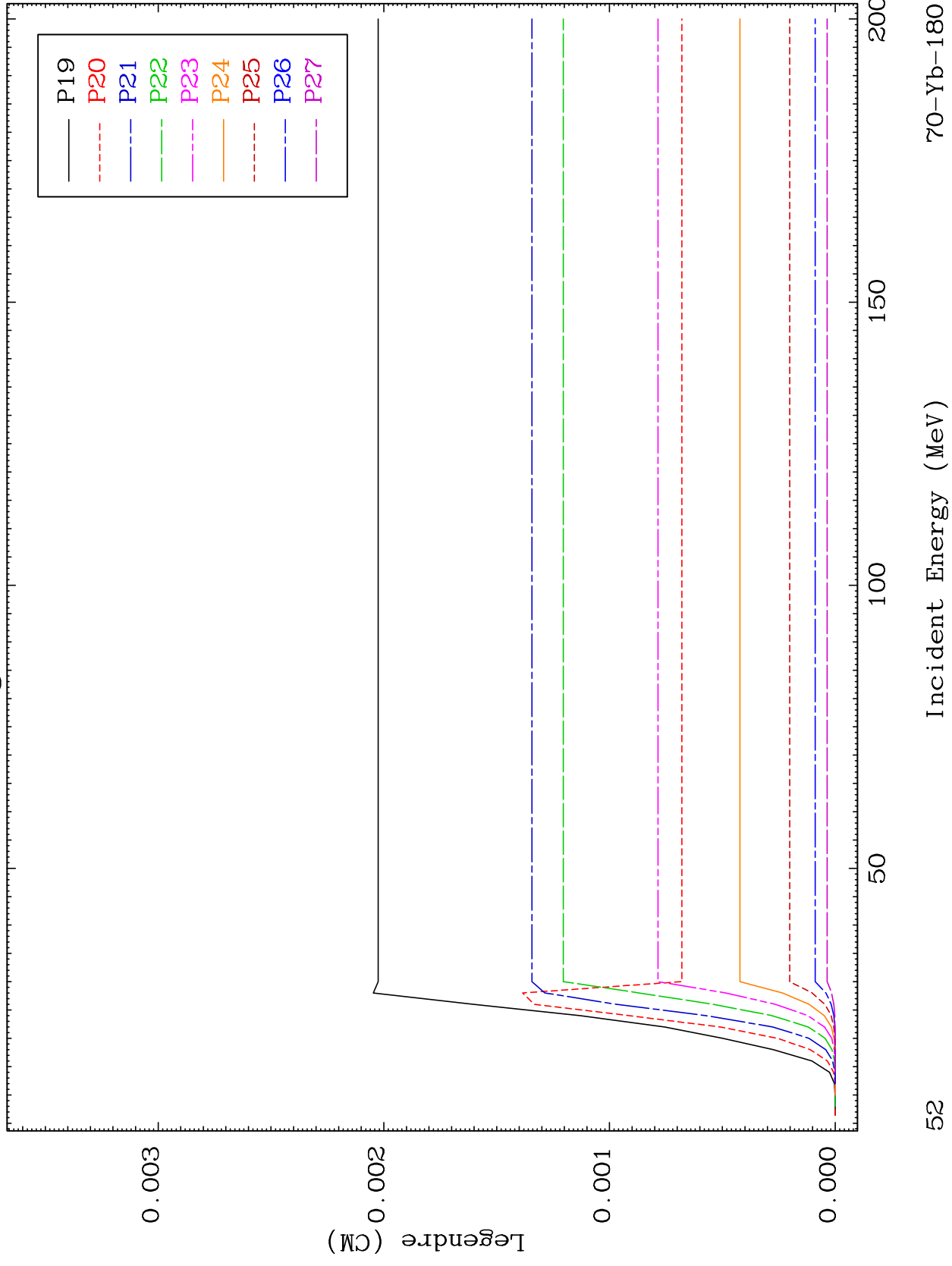




MAT 7061

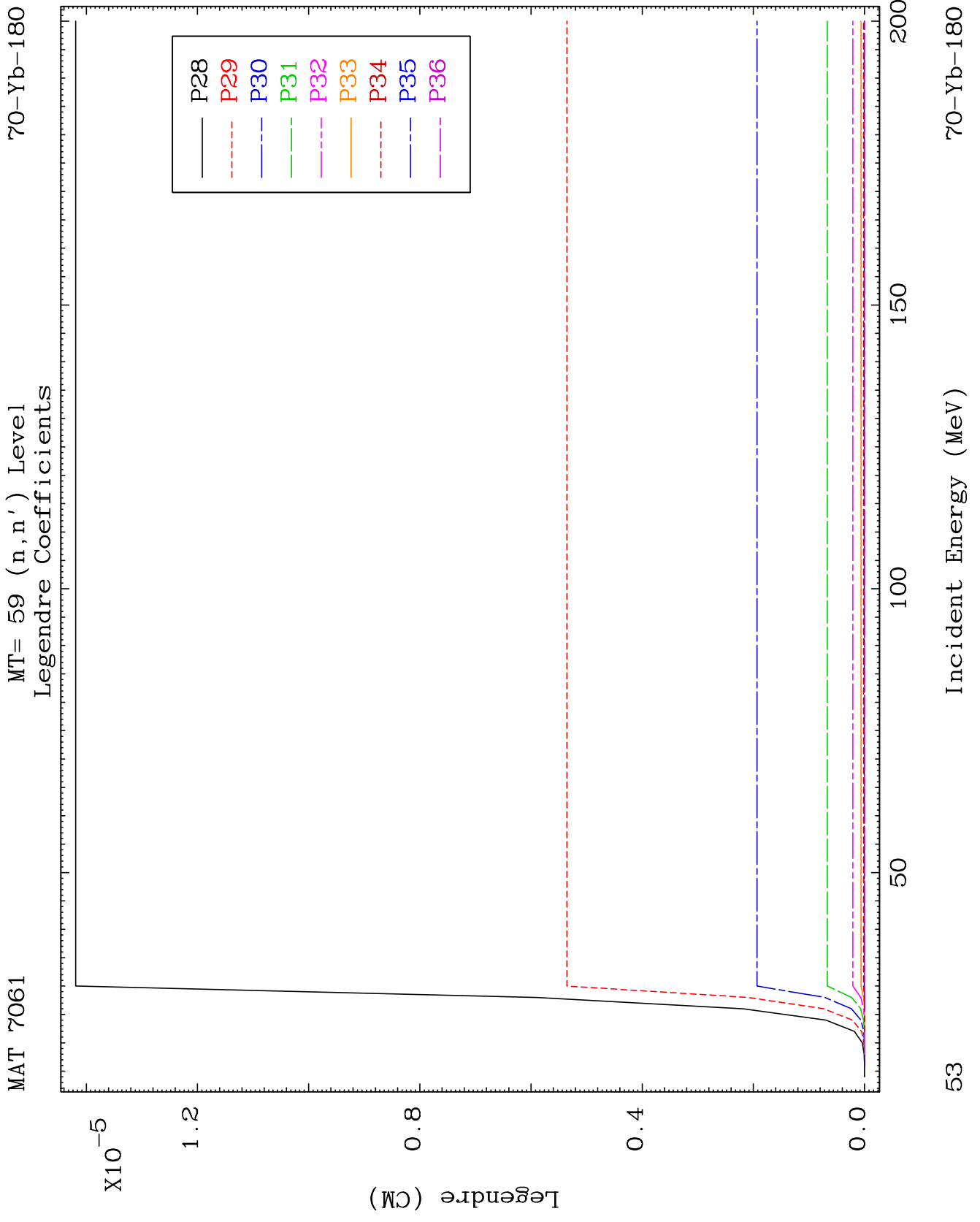
MT= 59 (n,n') Level
Legendre Coefficients

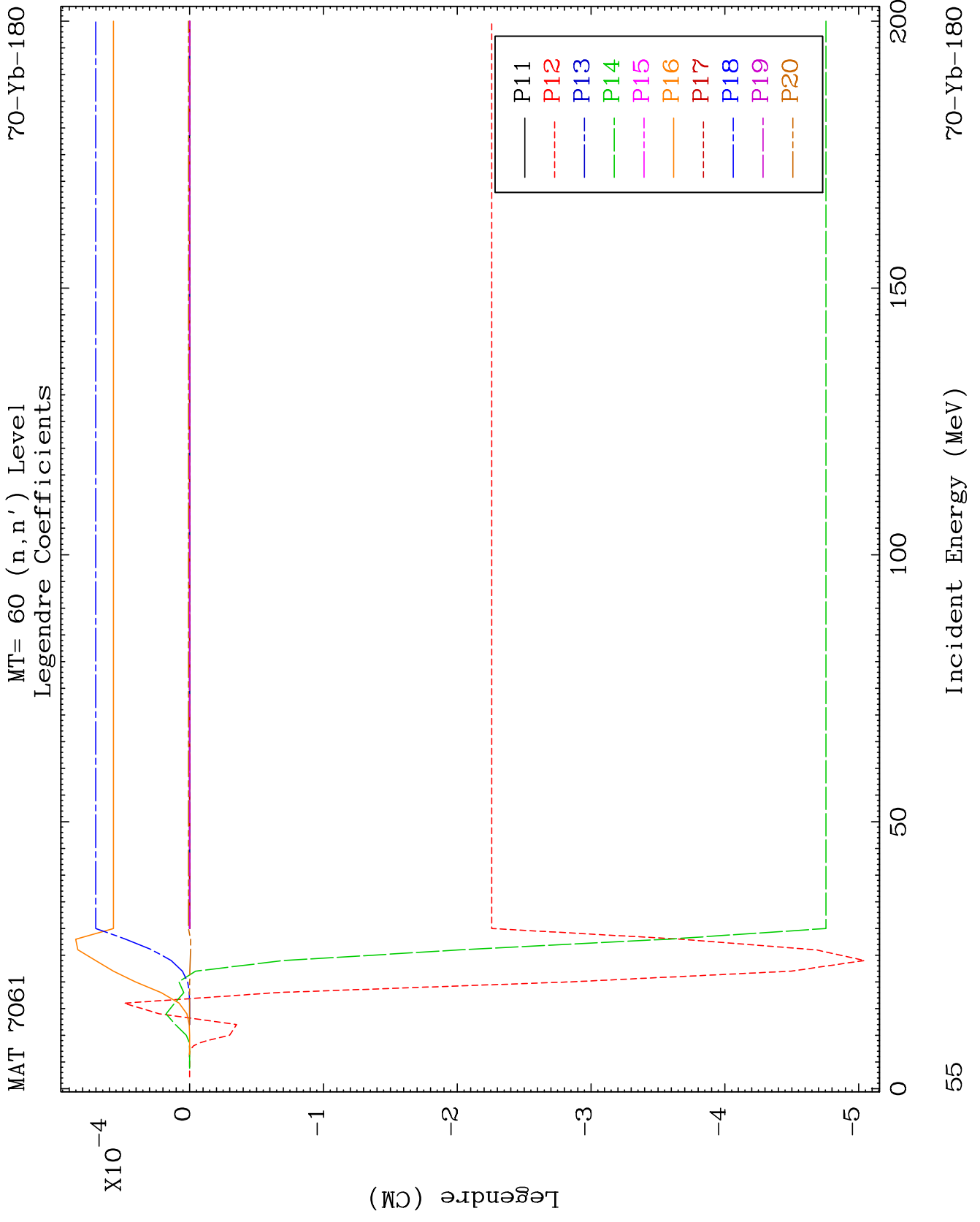
70-Yb-180

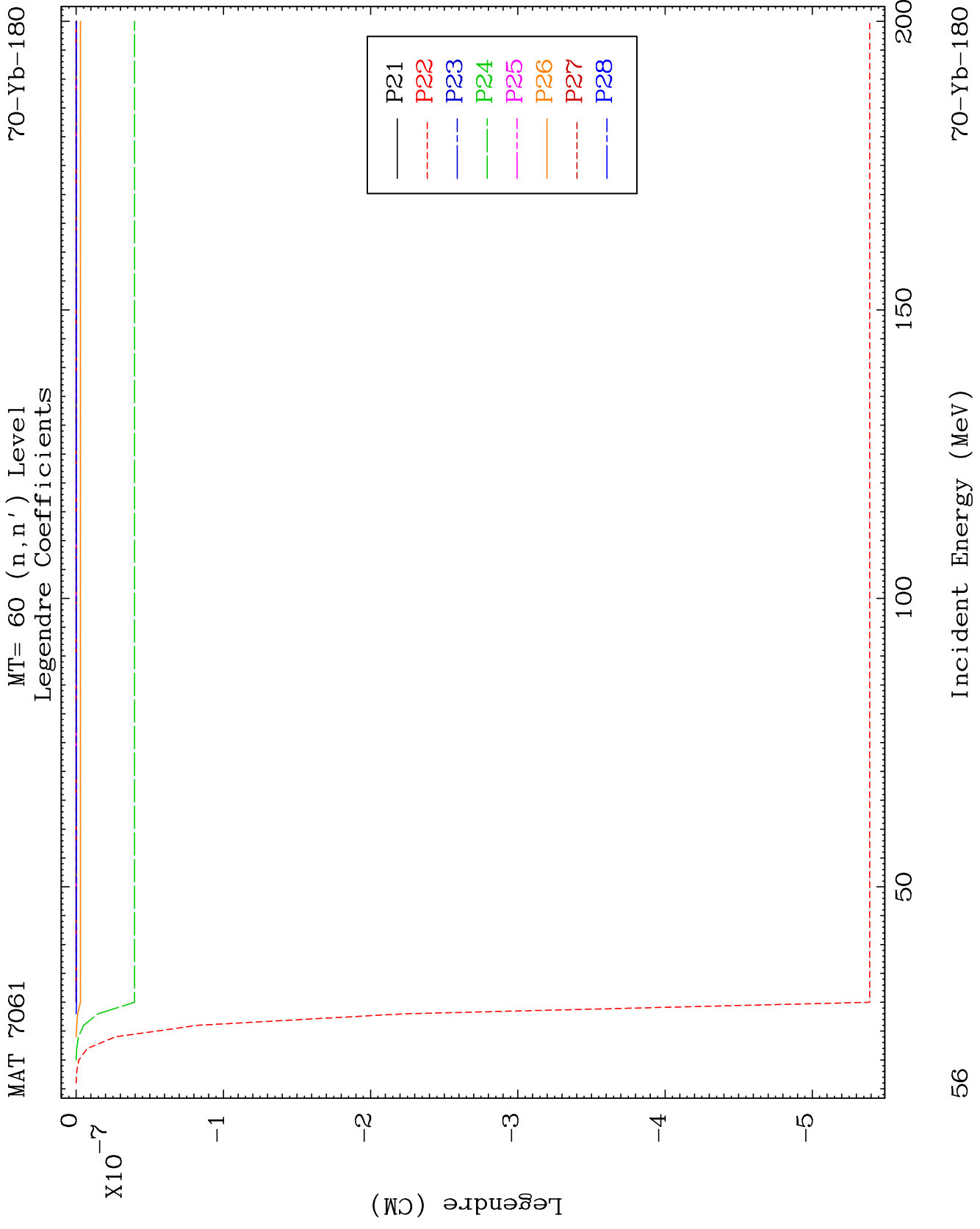


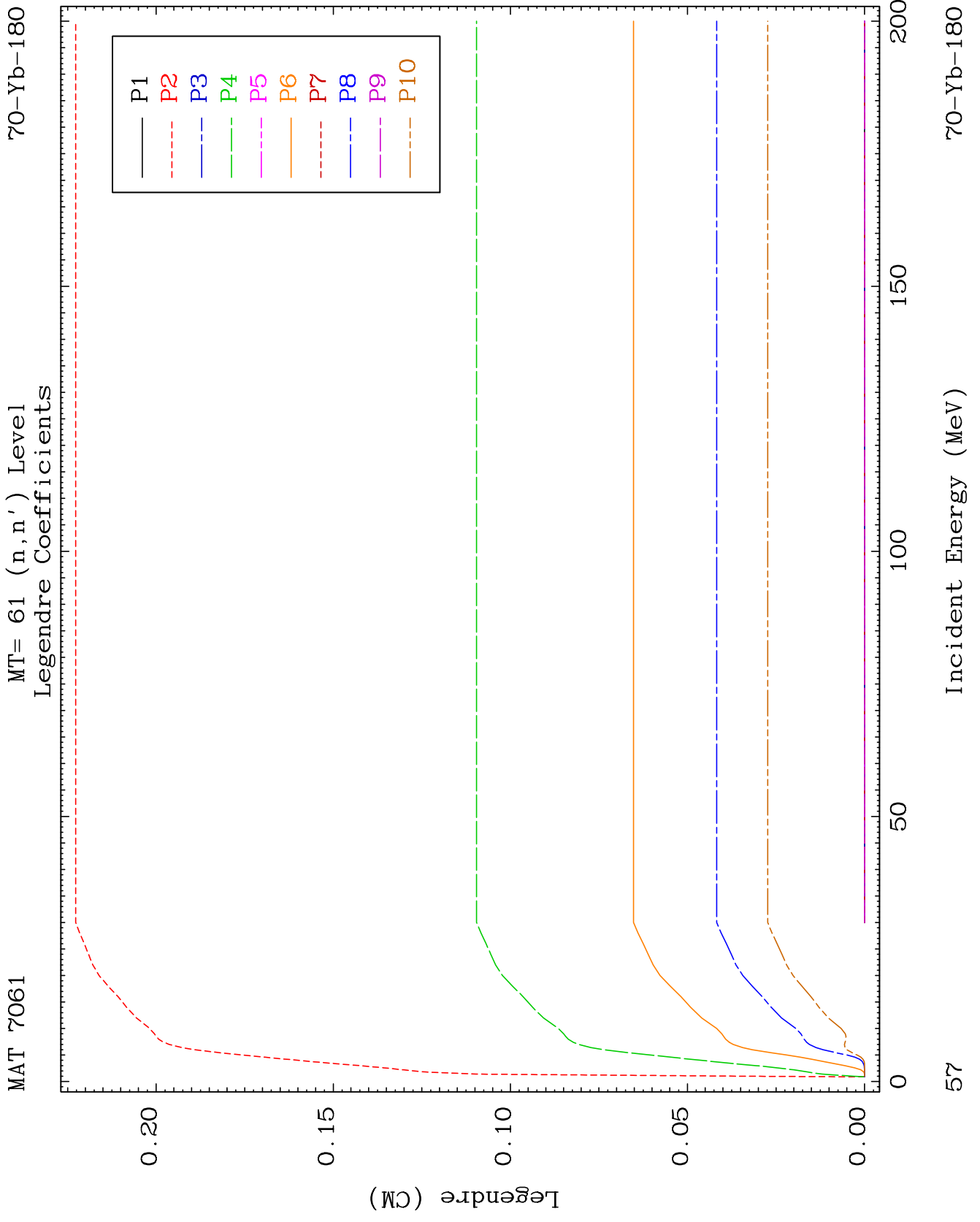
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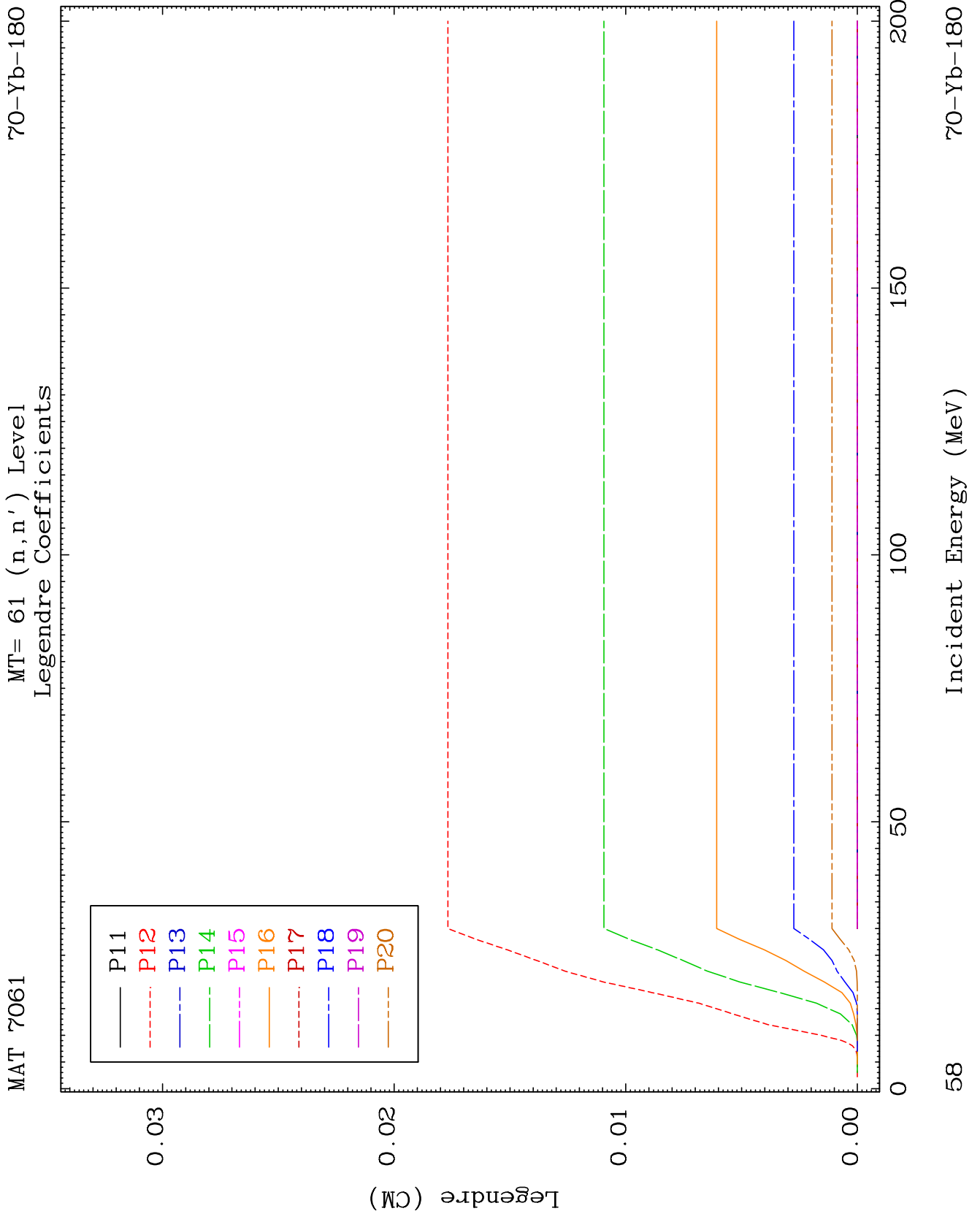
70-Yb-180

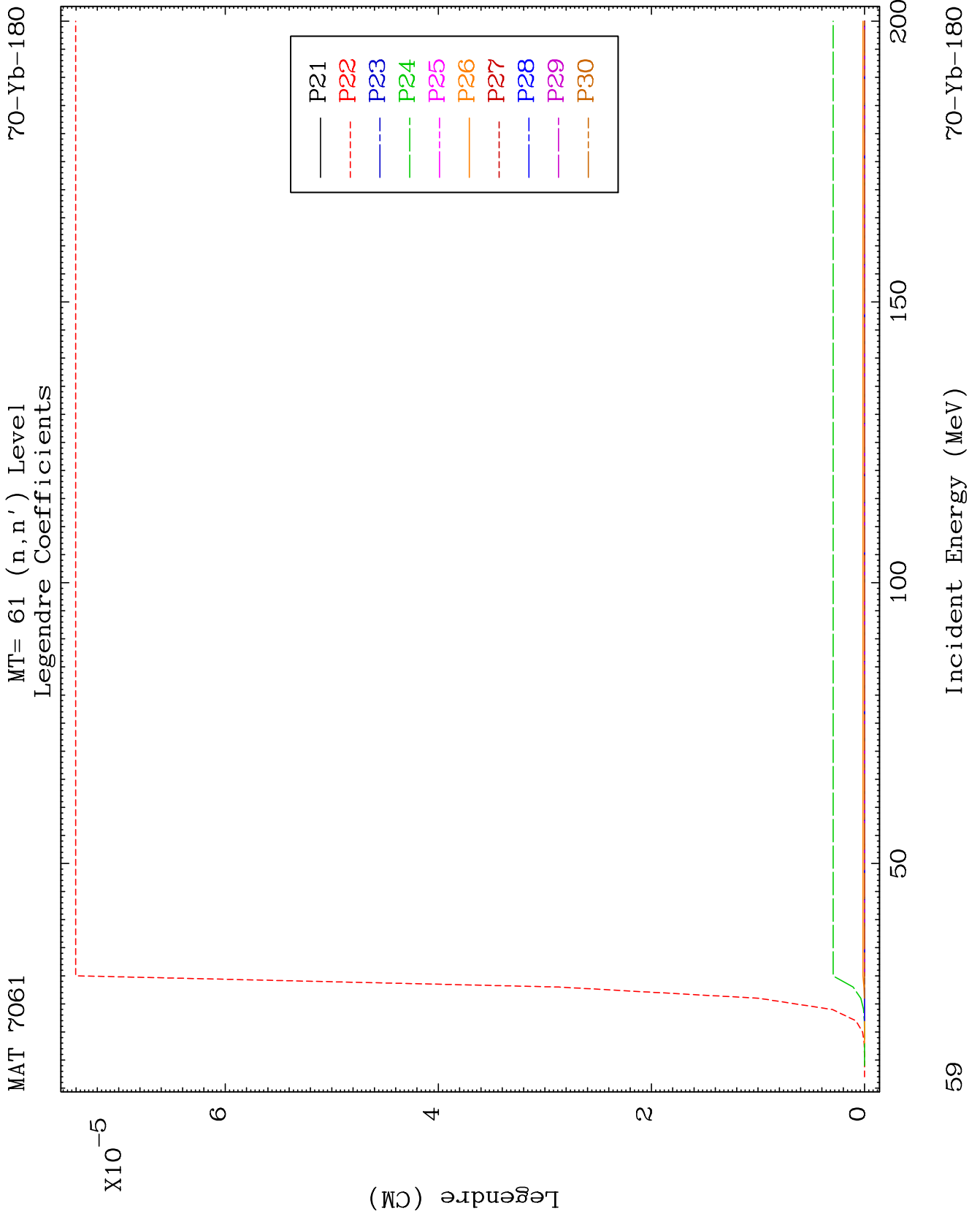


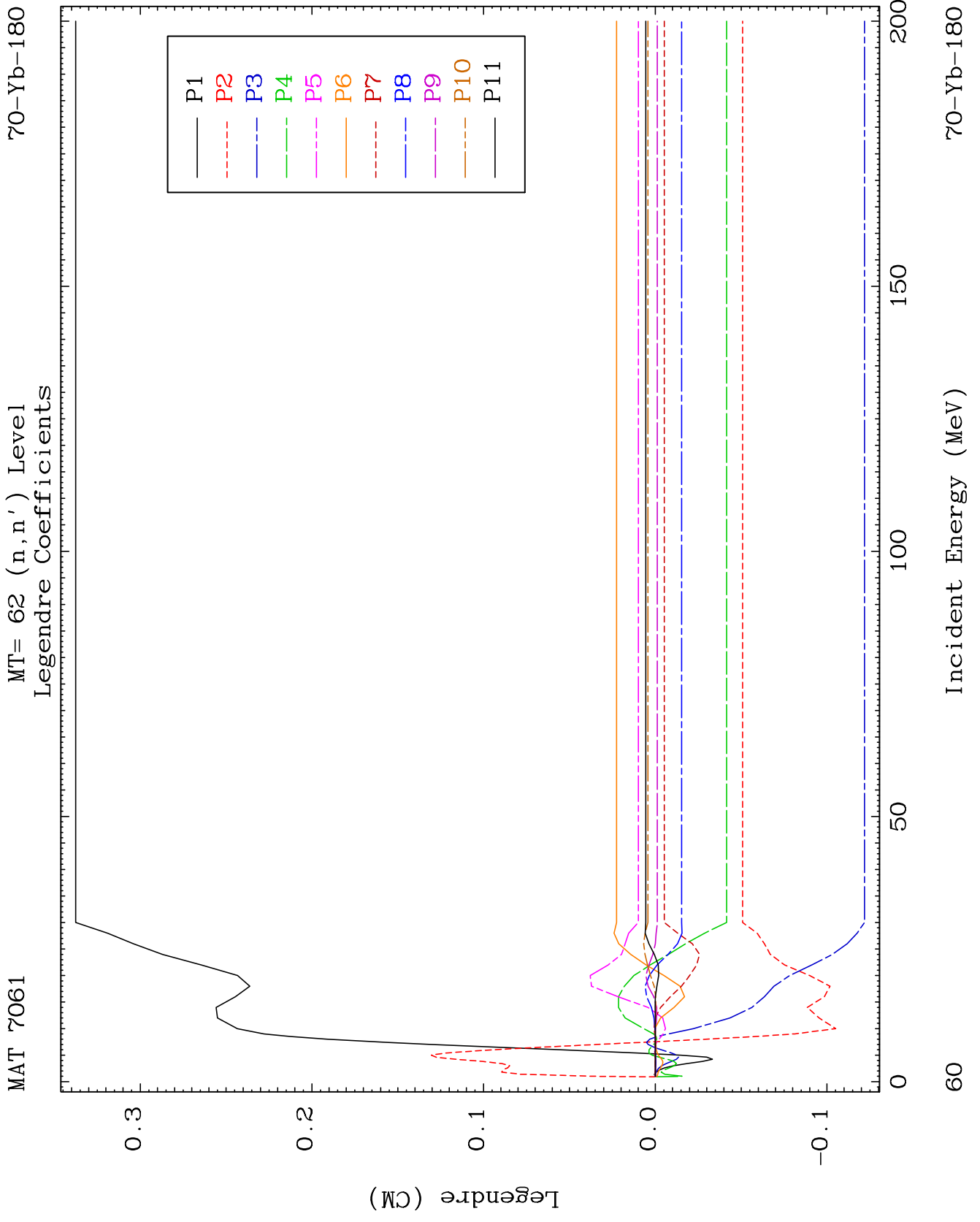








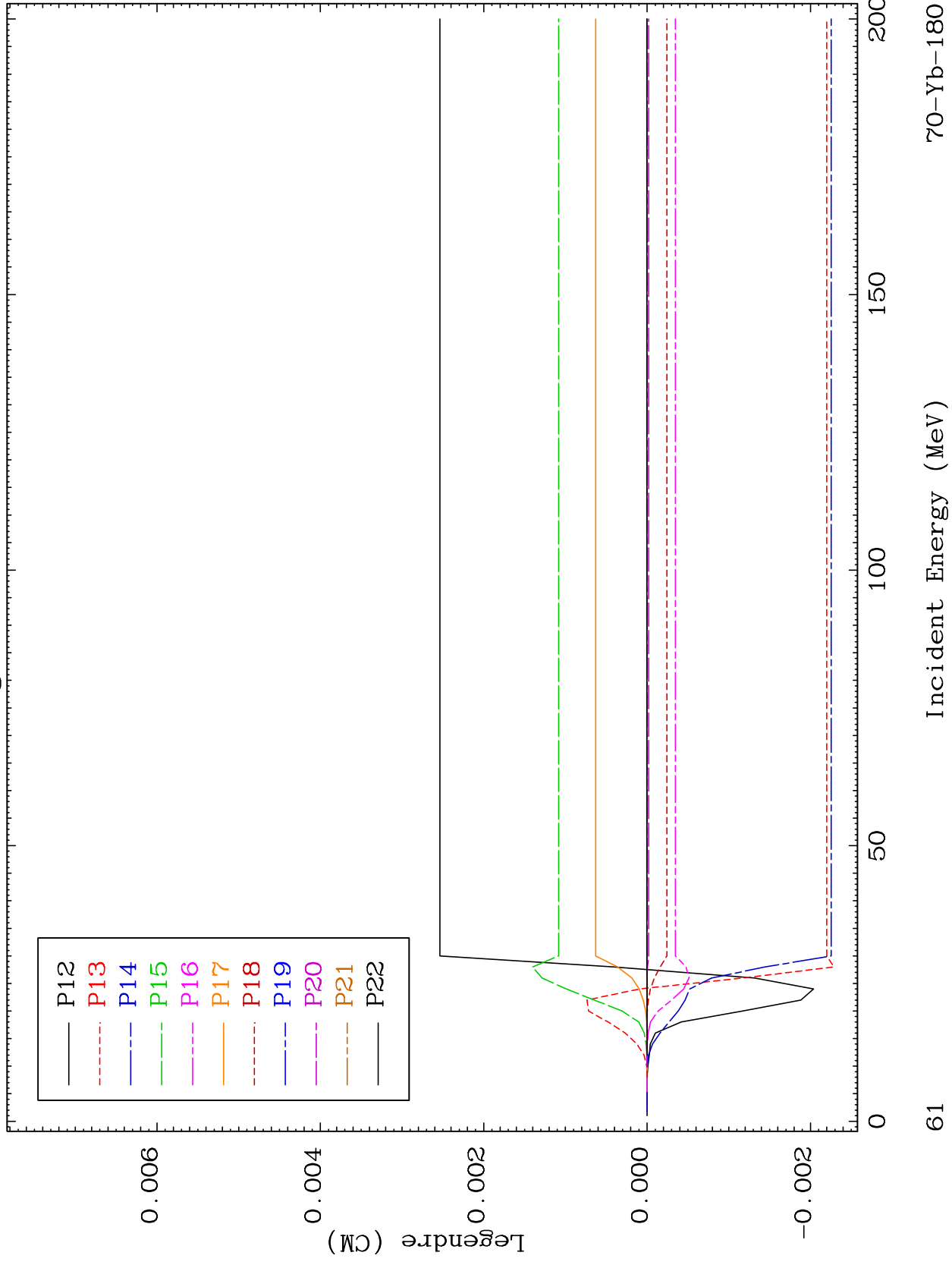




MAT 7061

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

70-Yb-180



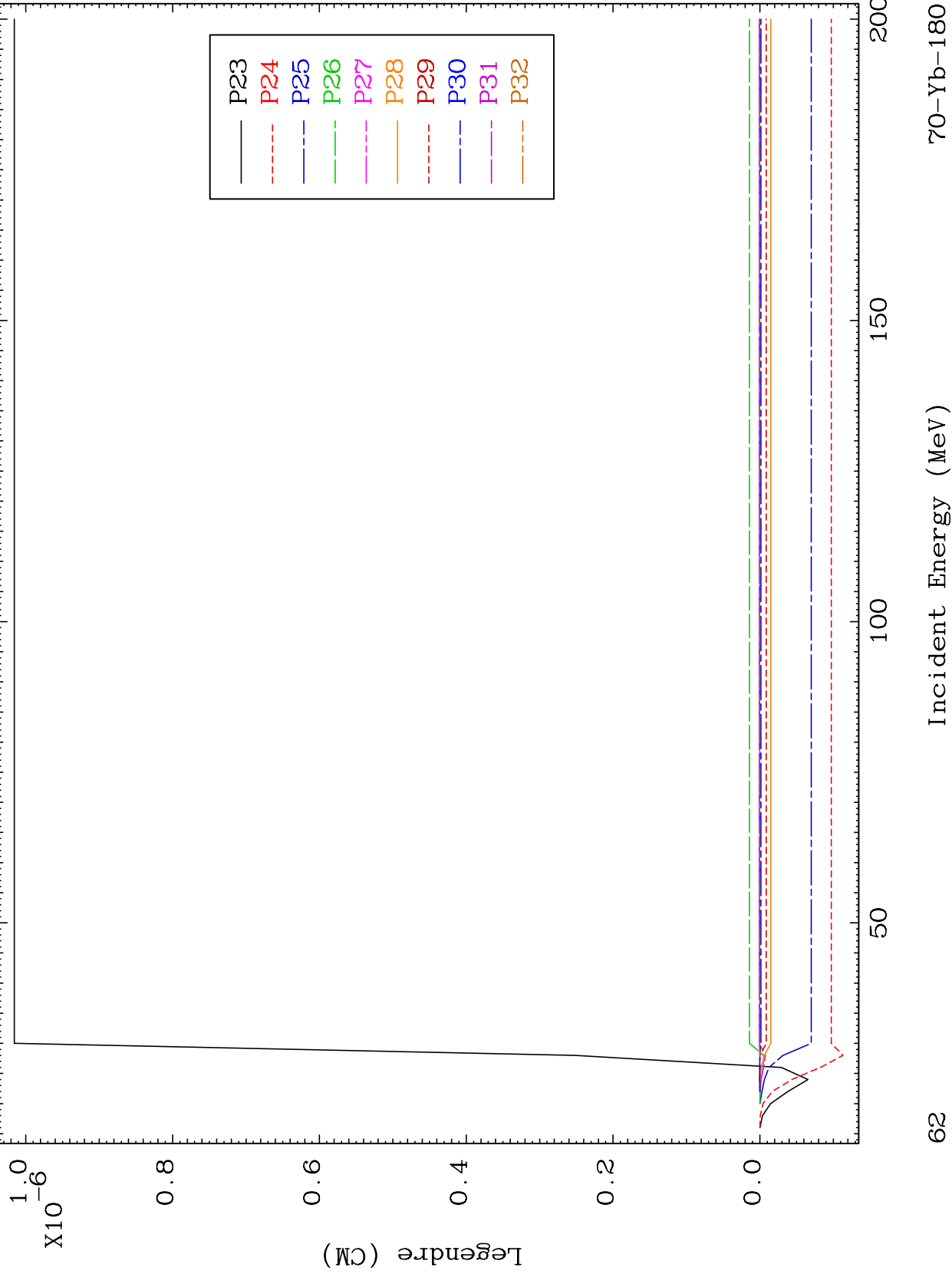
61

70-Yb-180

MAT 7061

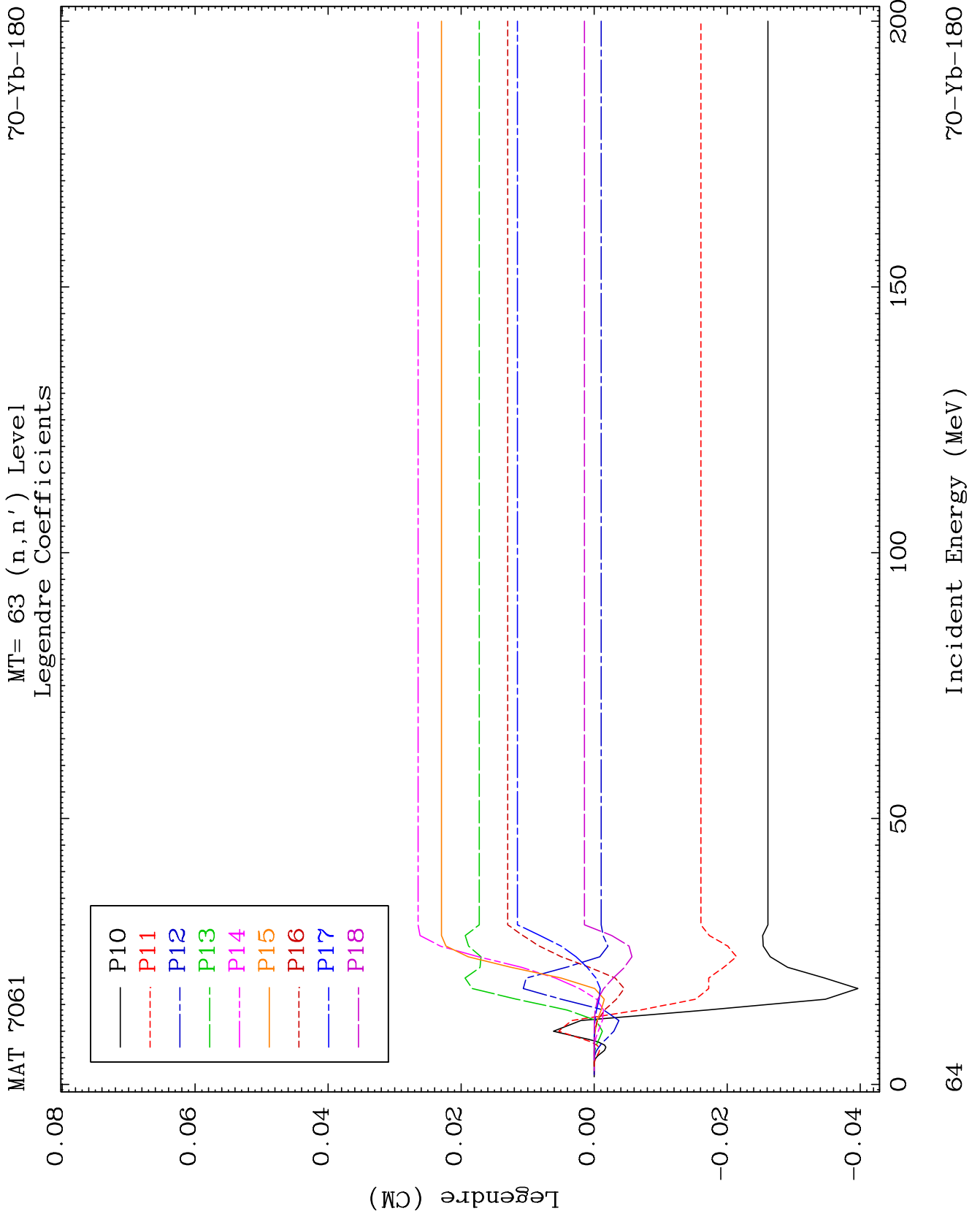
MT= 62 (n,n') Level
Legendre Coefficients

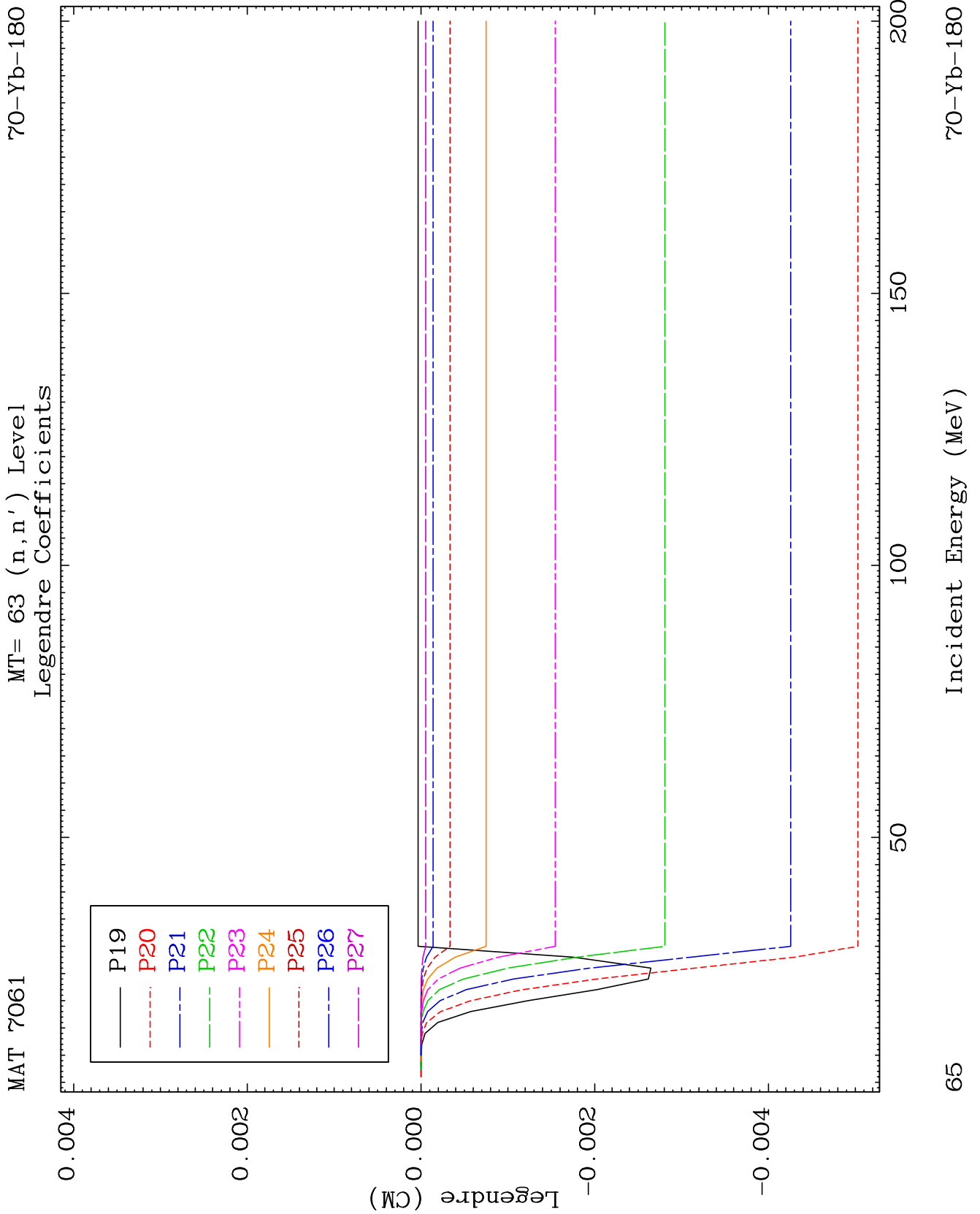
70-Yb-180

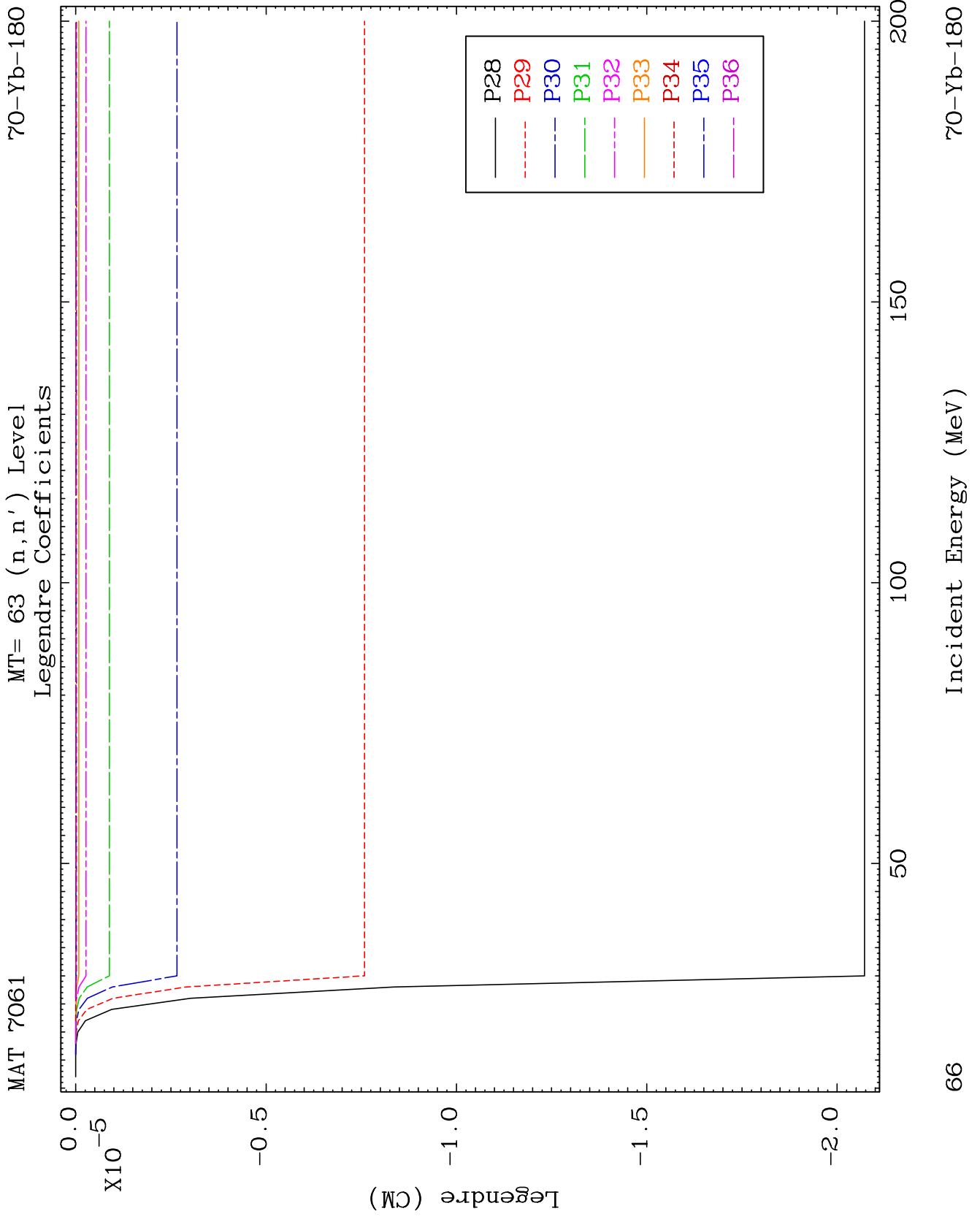


62

70-Yb-180



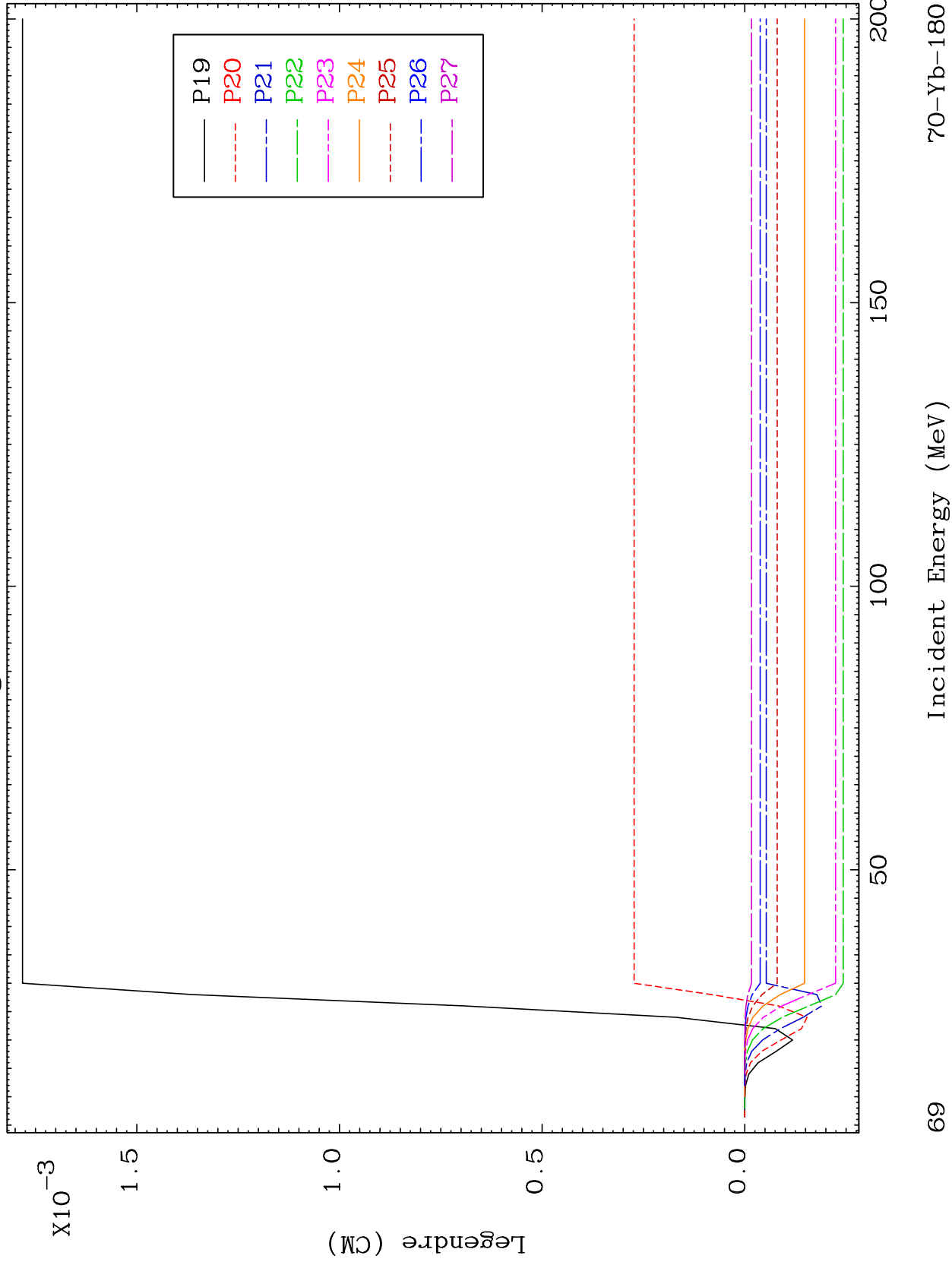




MAT 7061

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

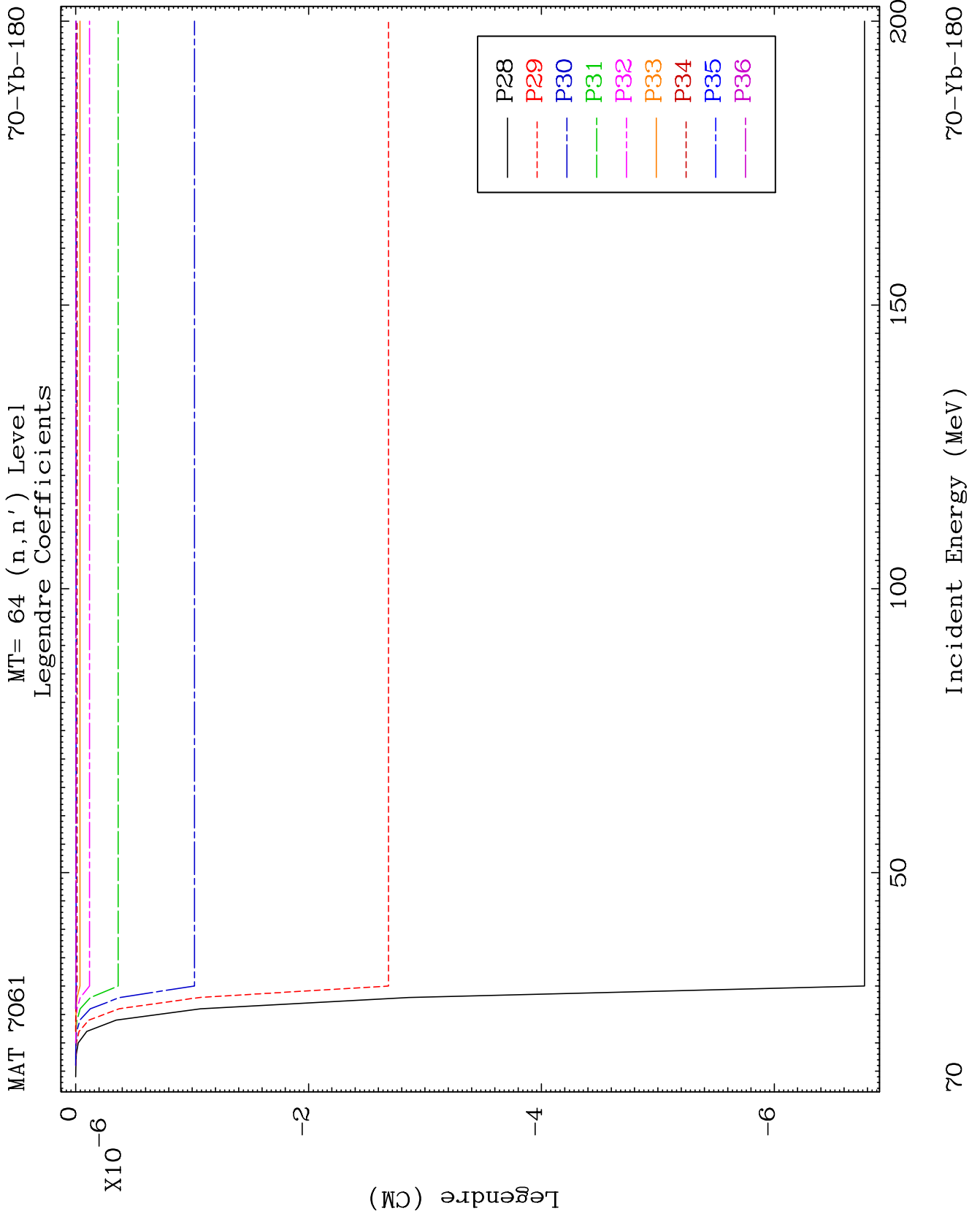
70-Yb-180

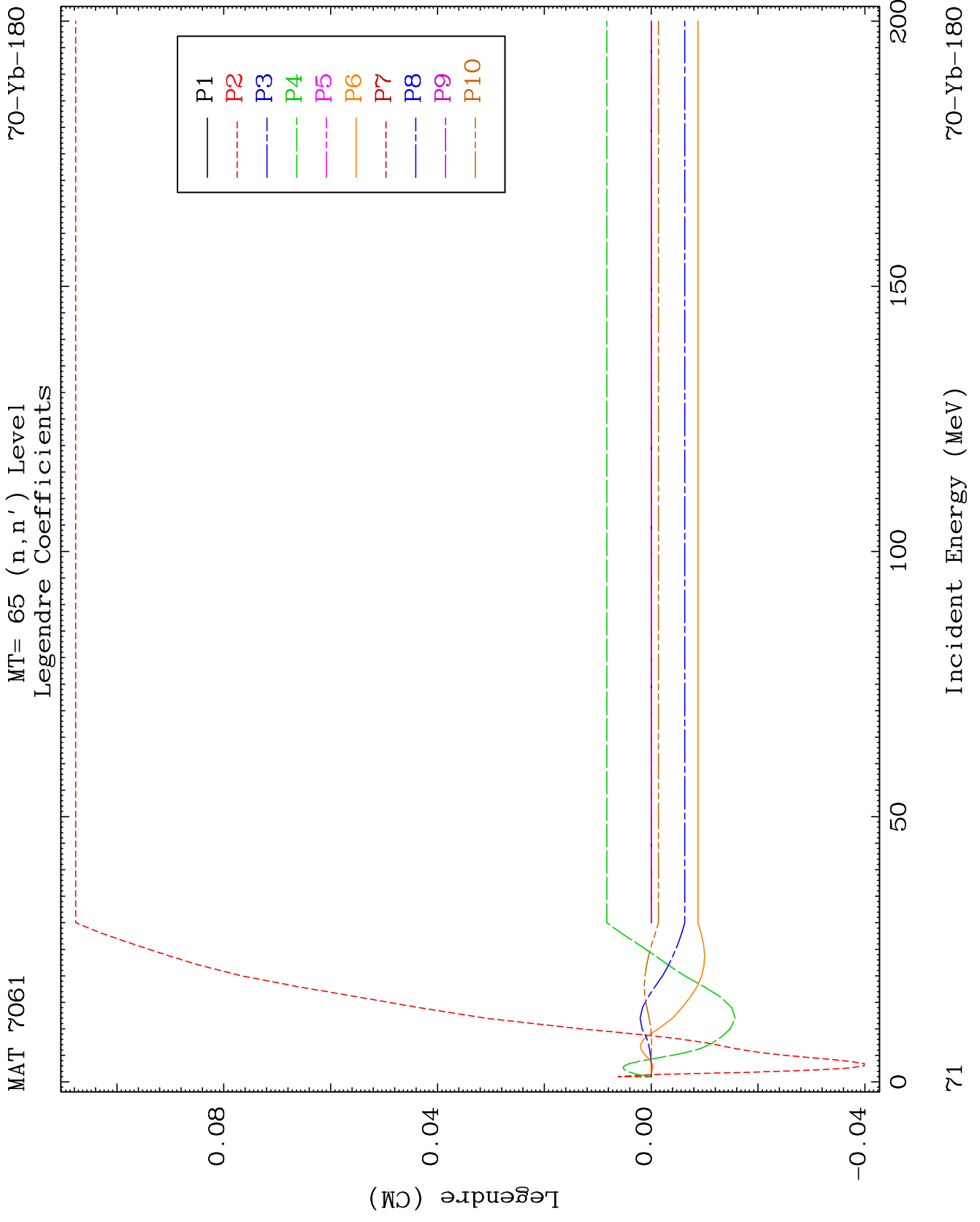


69

Incident Energy (MeV)

70-Yb-180

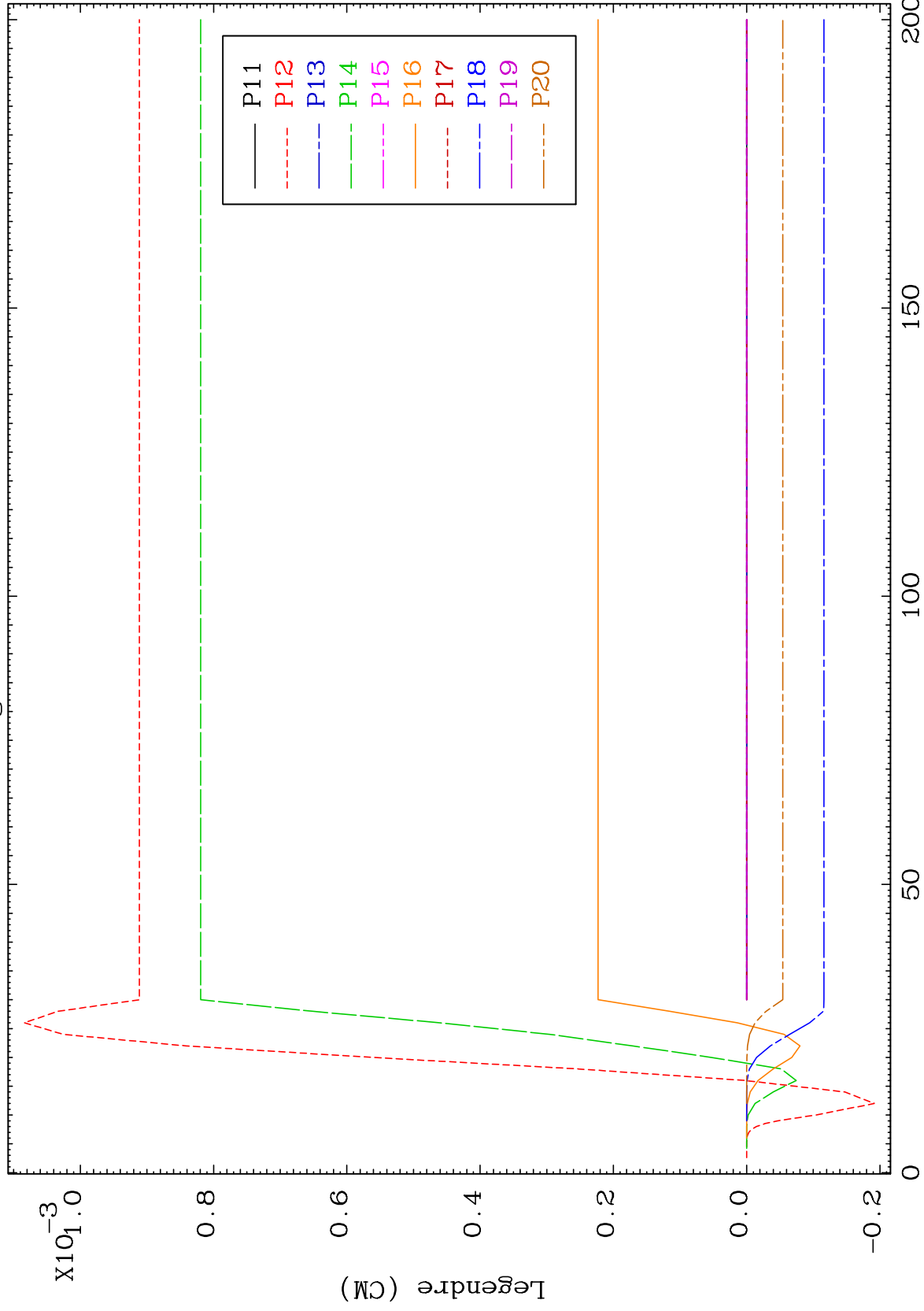




MAT 7061

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

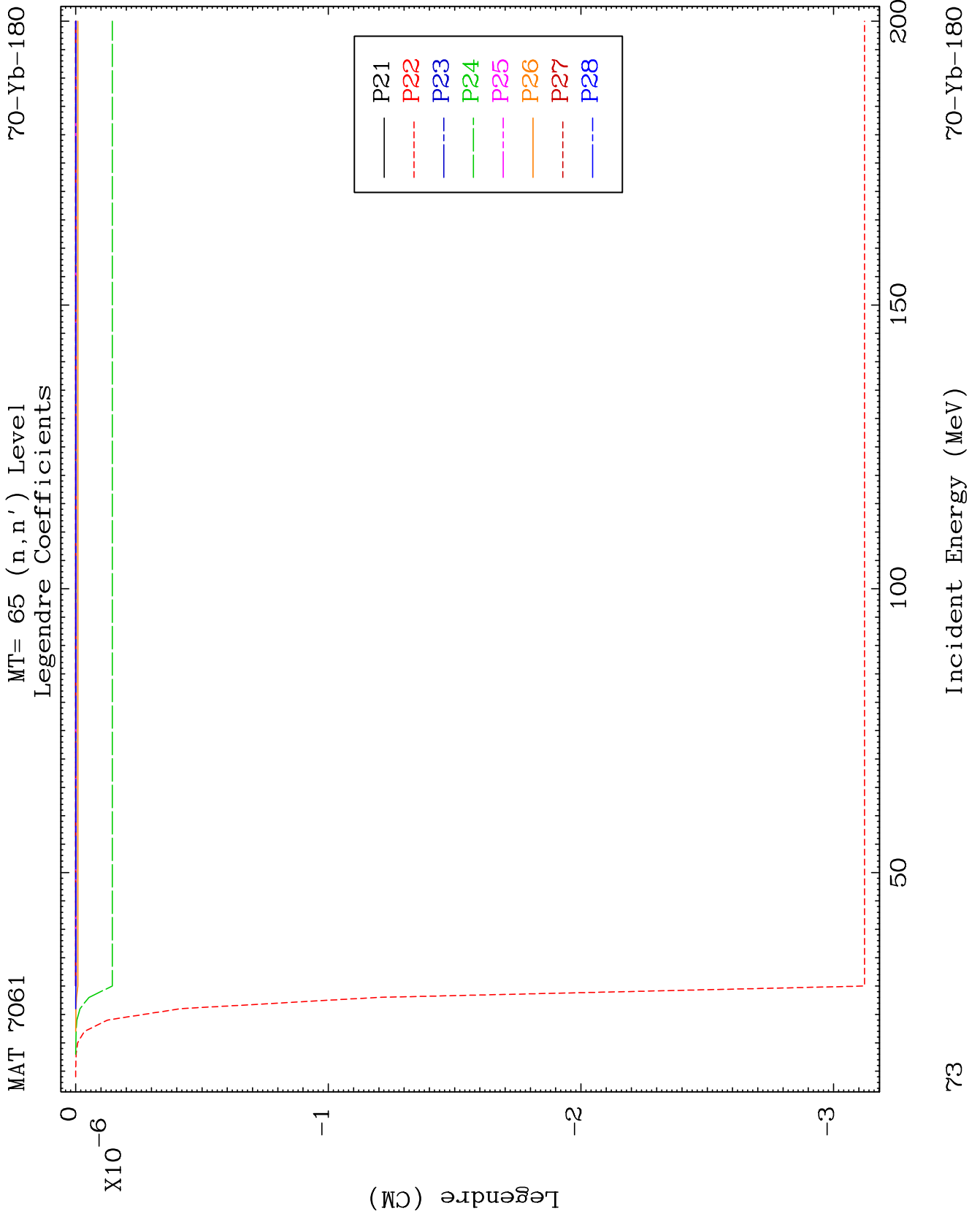
70-Yb-180

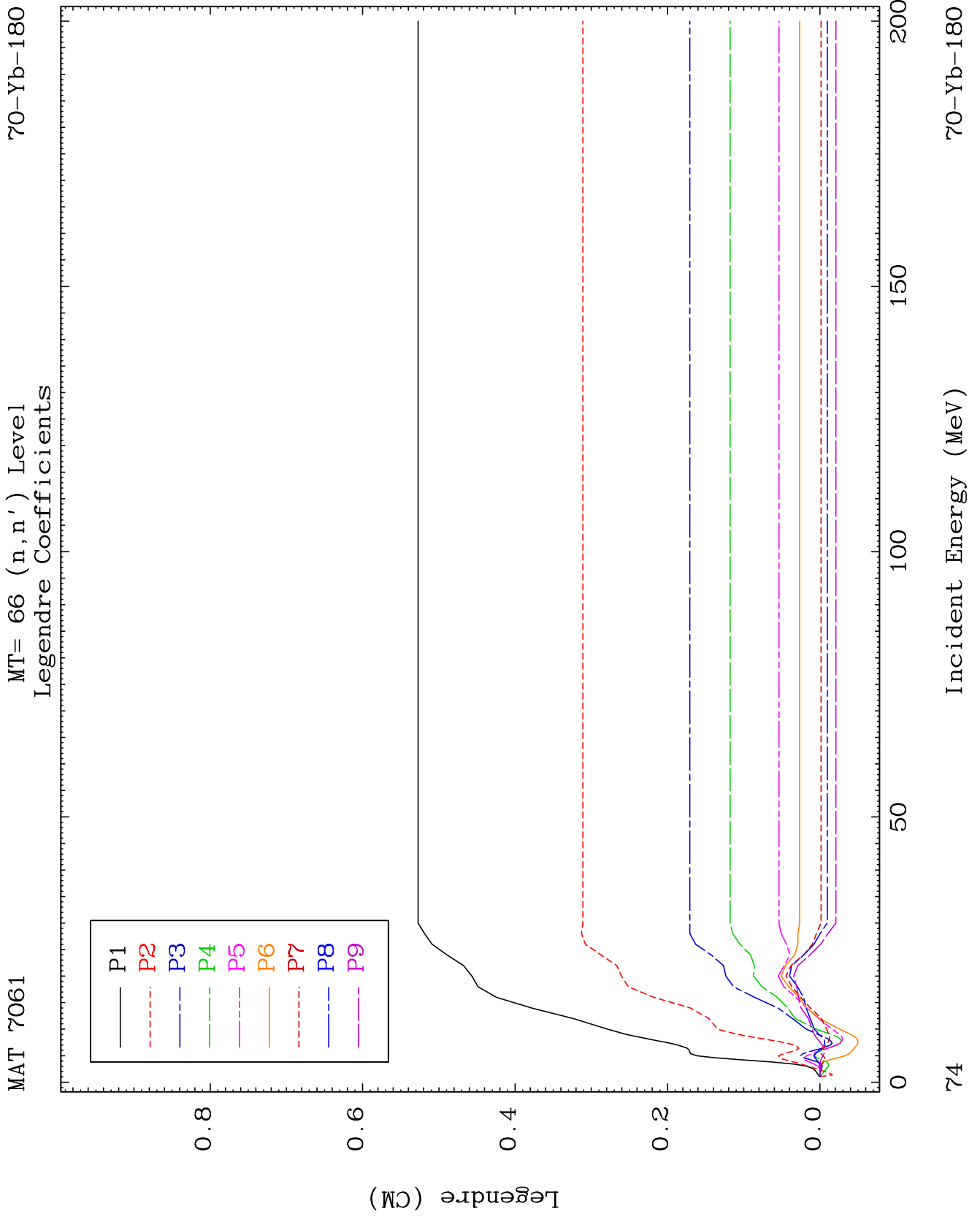


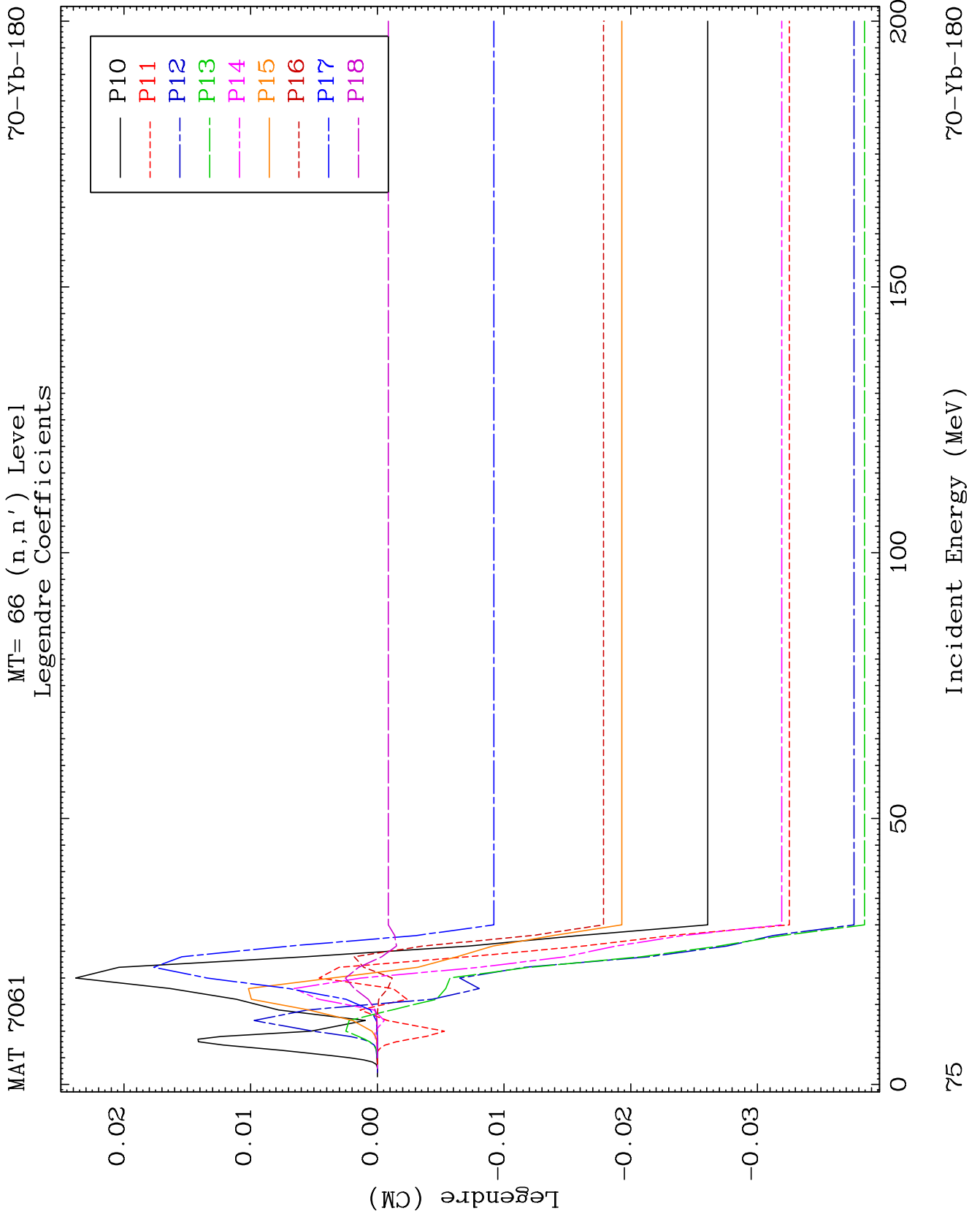
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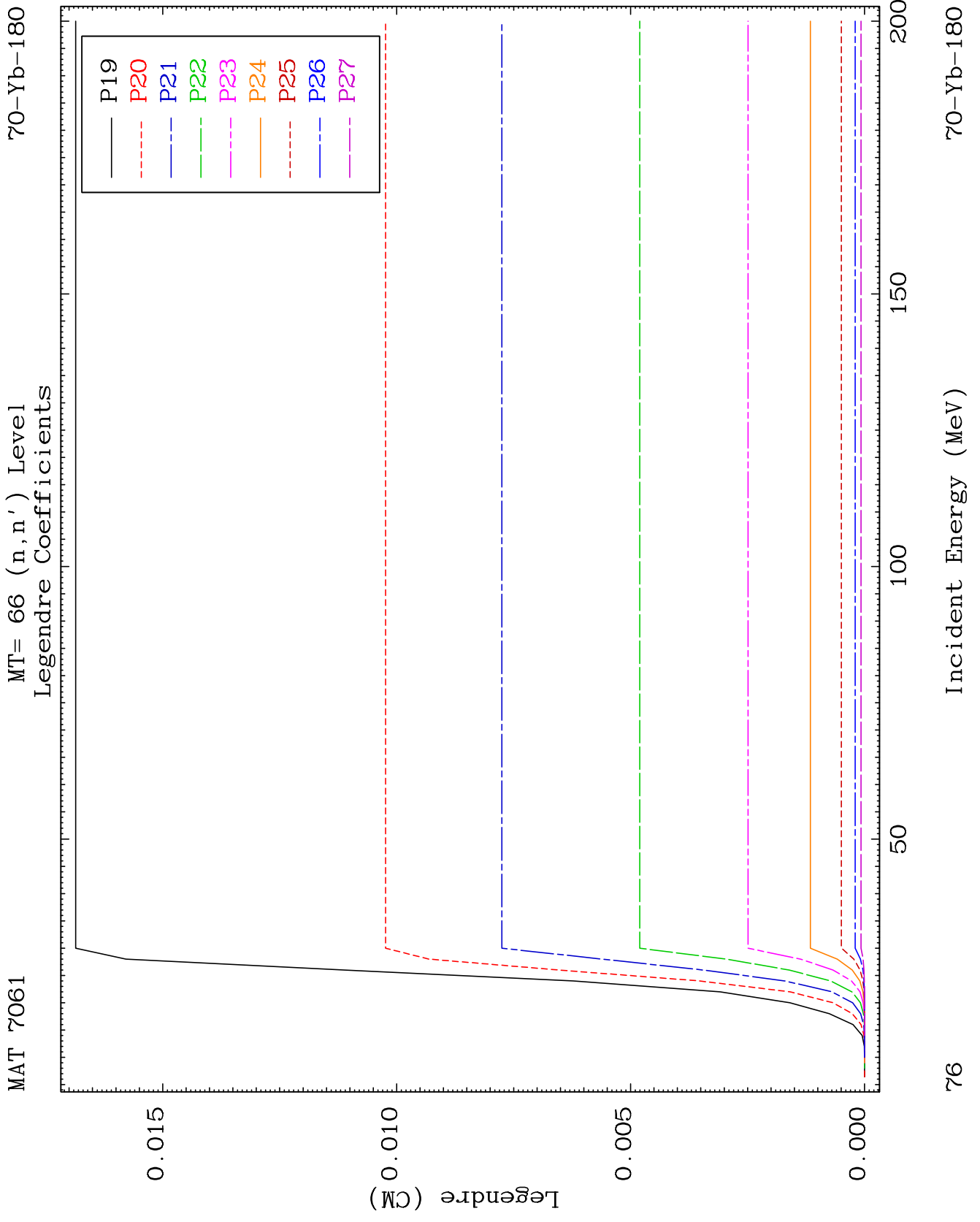
Incident Energy (MeV)

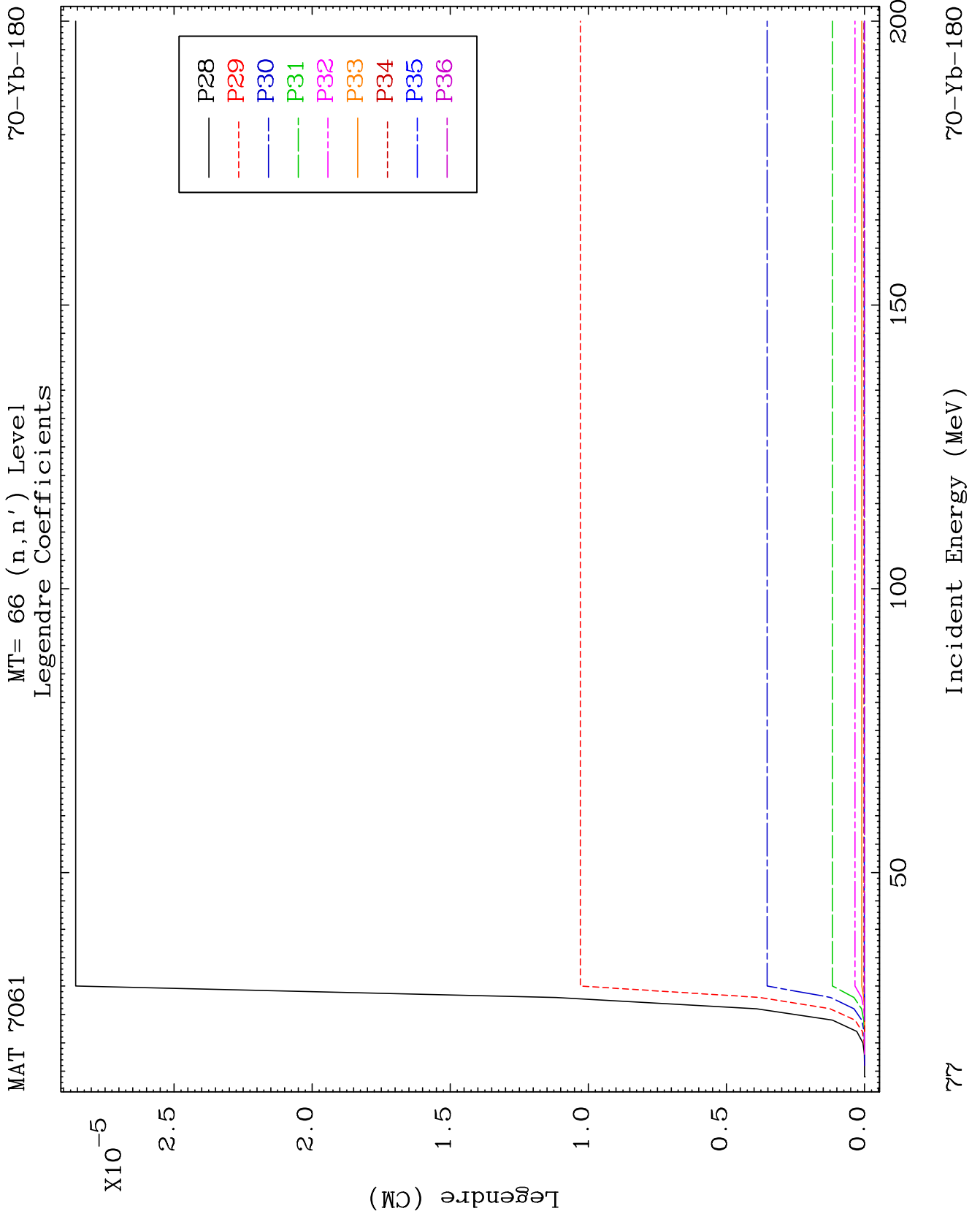
70-Yb-180

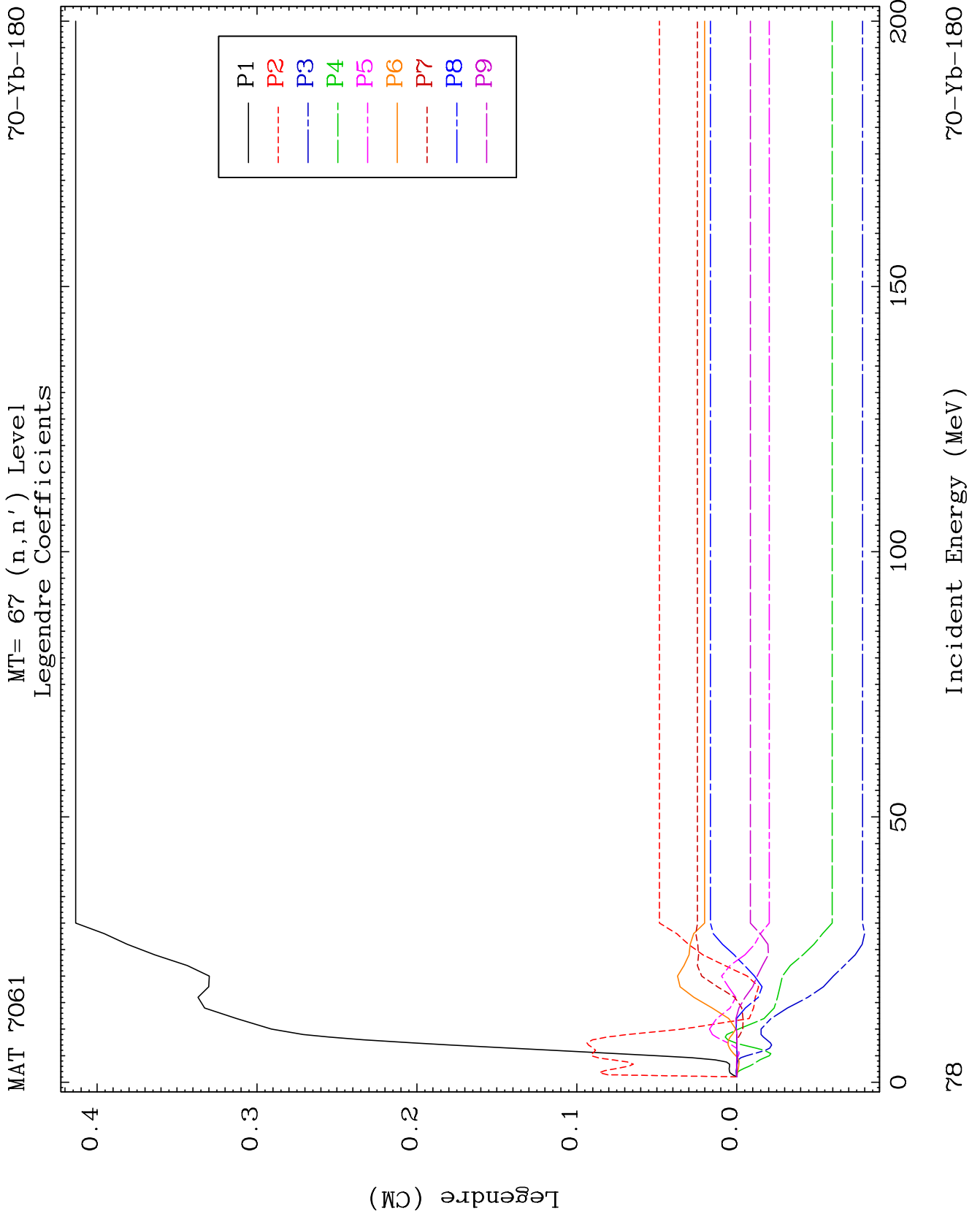


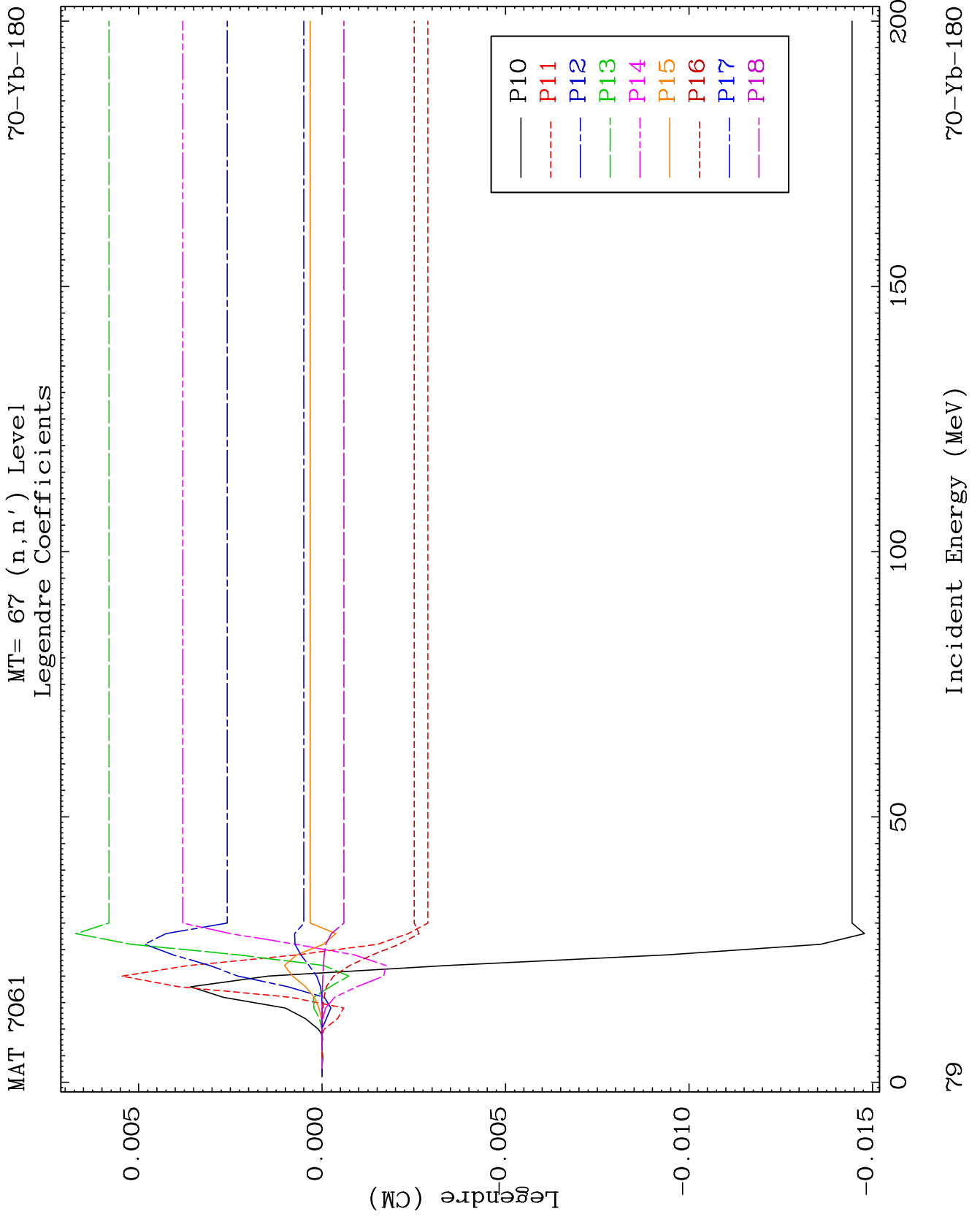


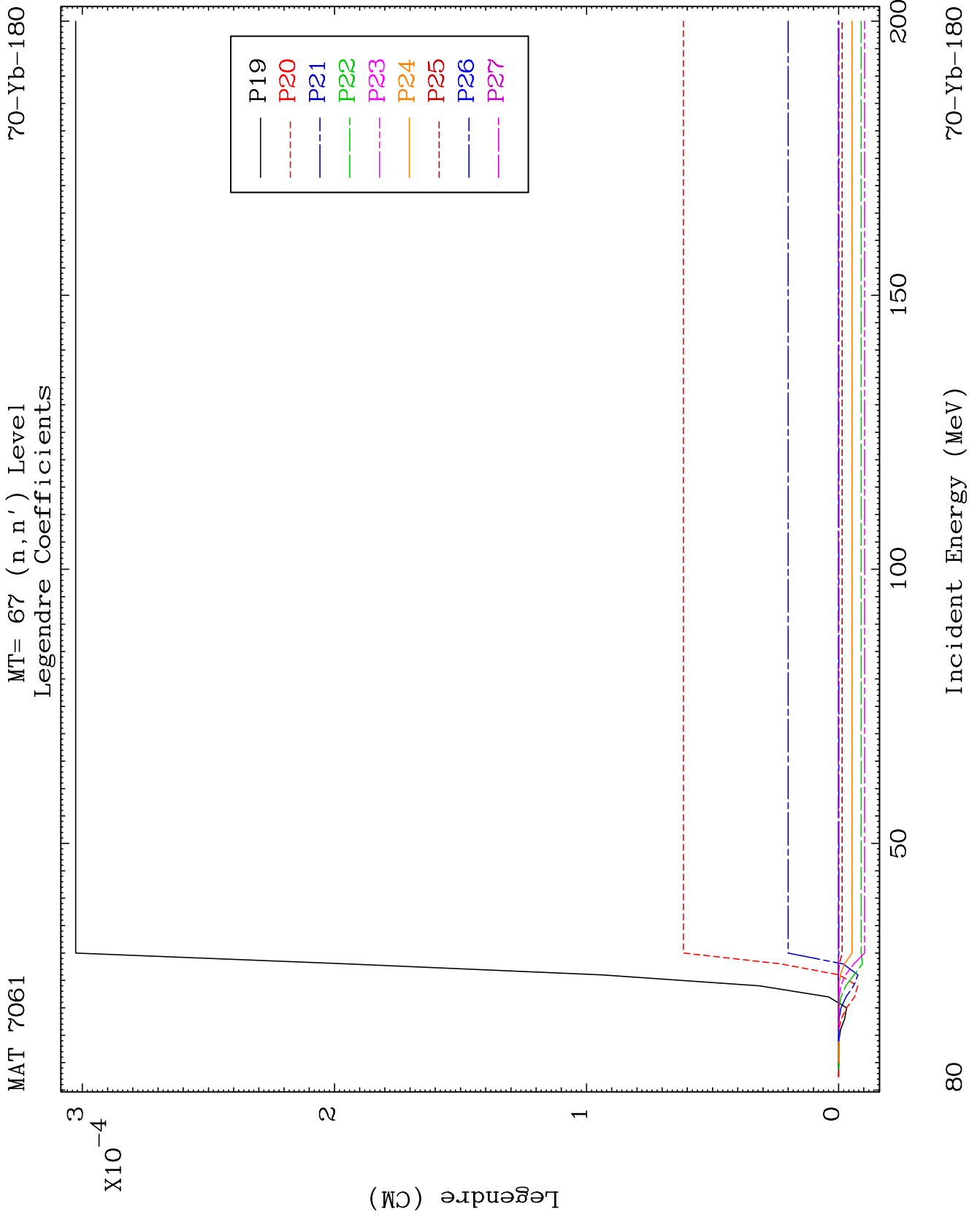








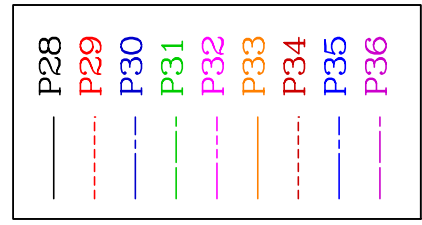




MAT 7061

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

70-Yb-180



$\times 10^{-7}$
1.5
1.0

Legendre (CM)

0.5

0.0

50 100 150 200

81

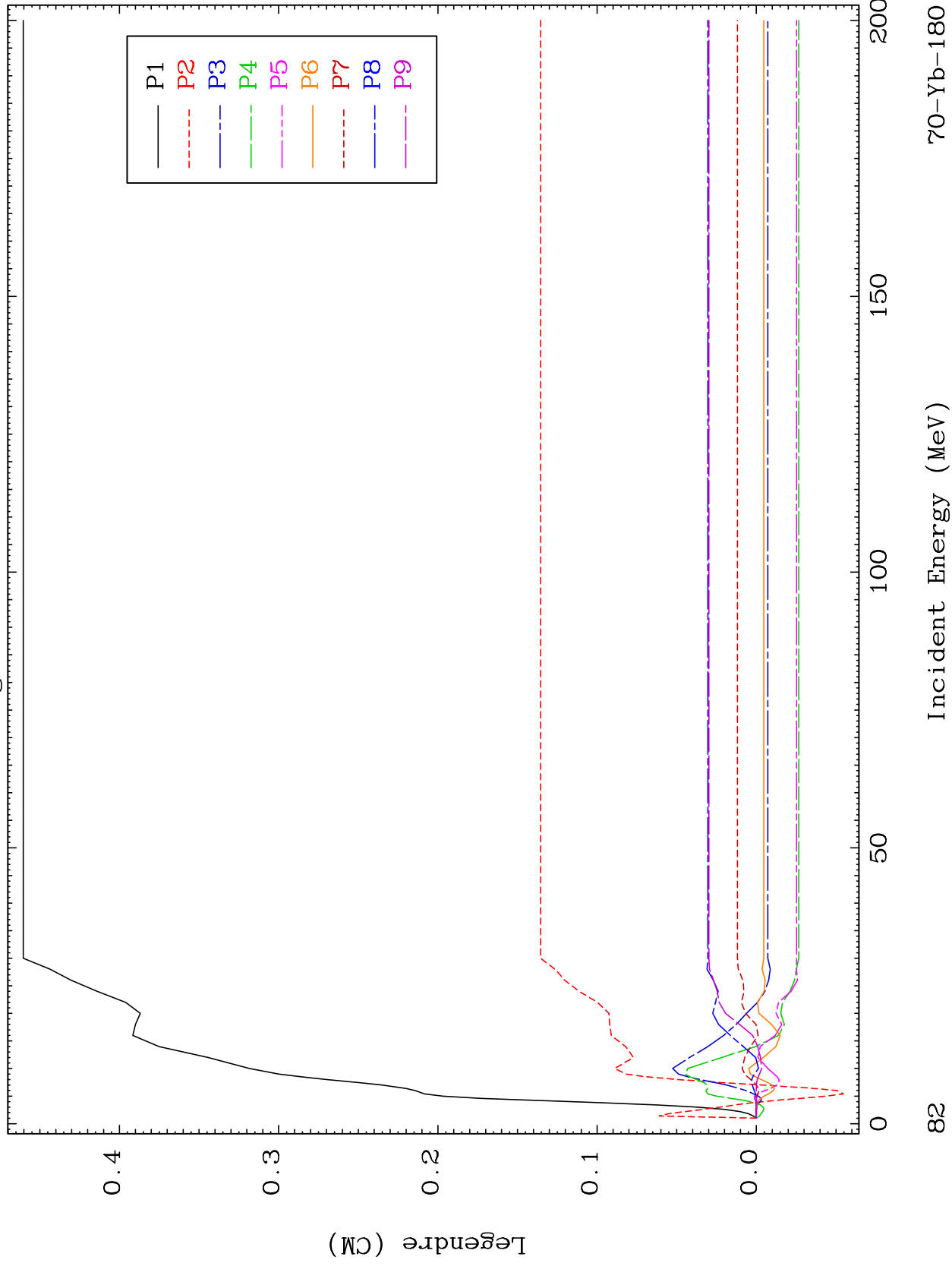
Incident Energy (MeV)

70-Yb-180

MAT 7061

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

70-Yb-180



82

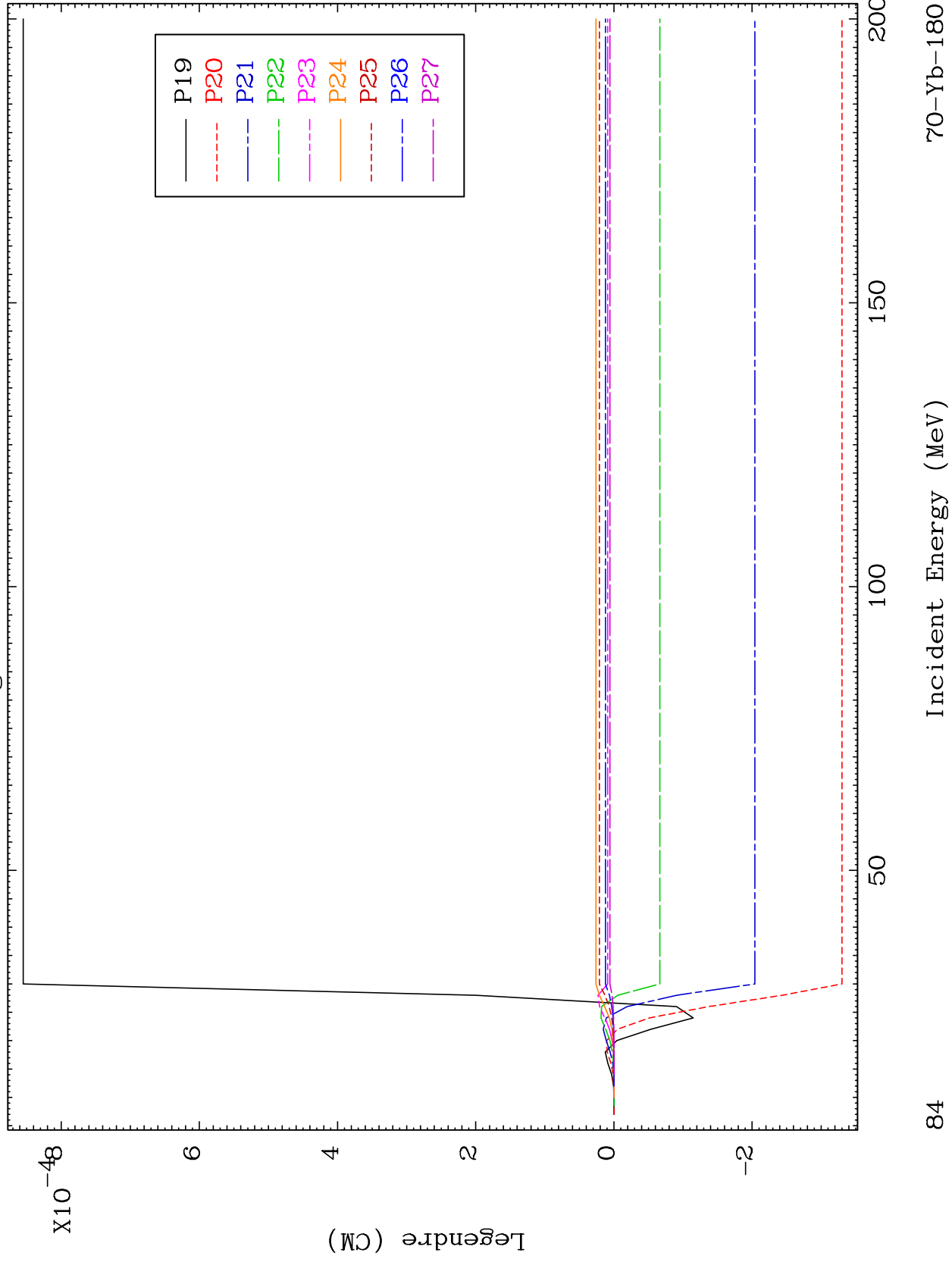
Incident Energy (MeV)

70-Yb-180

MAT 7061

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

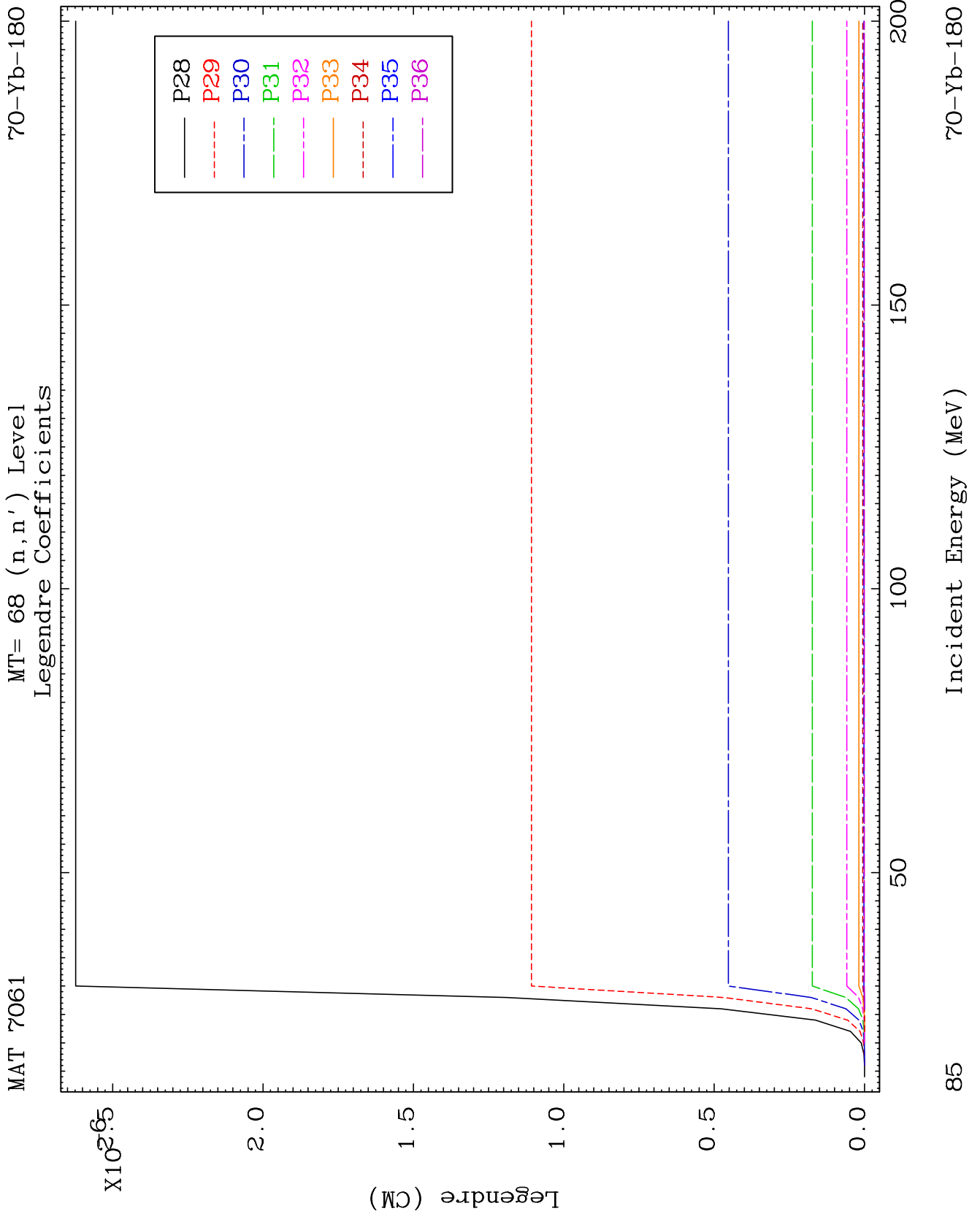
70-Yb-180

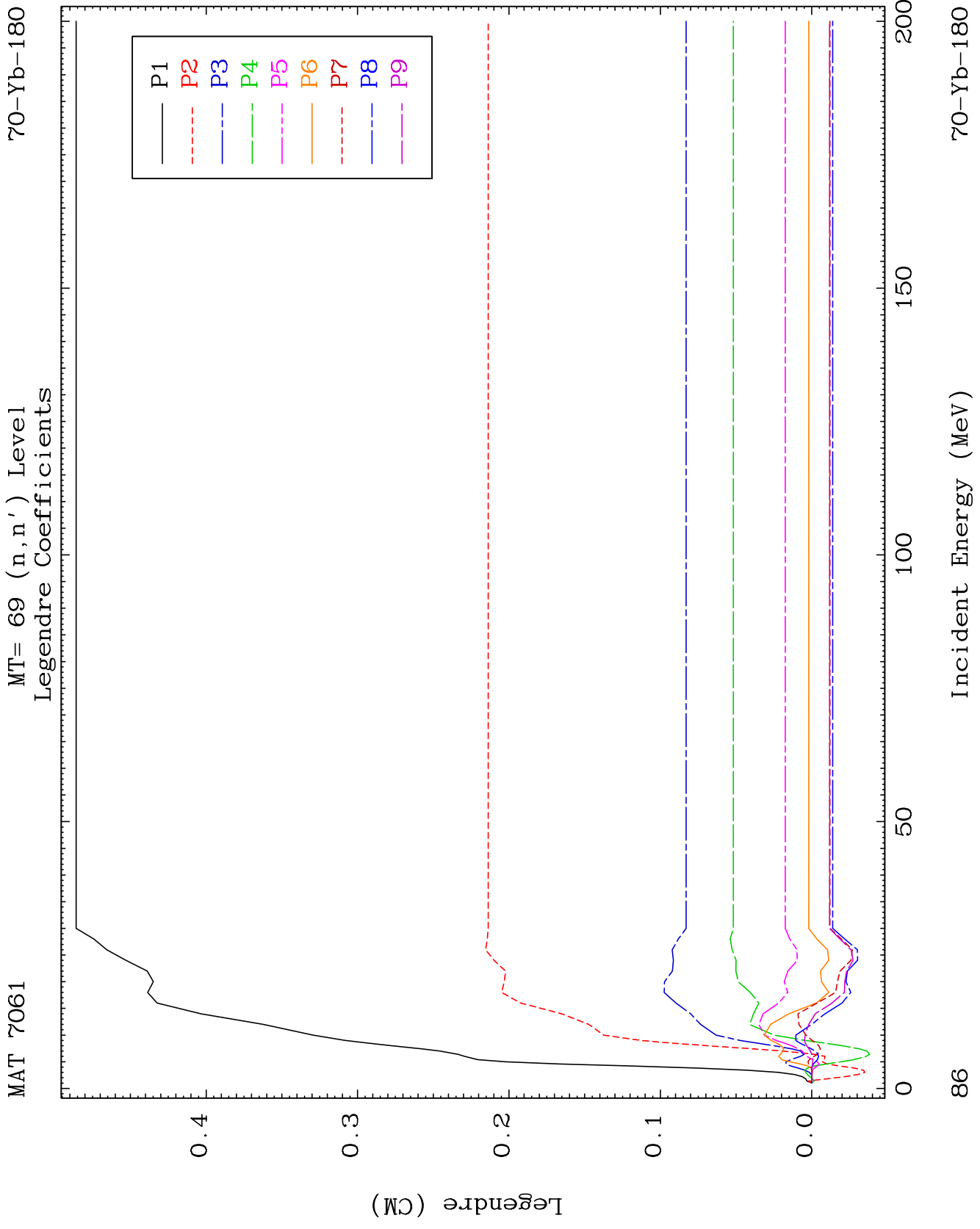


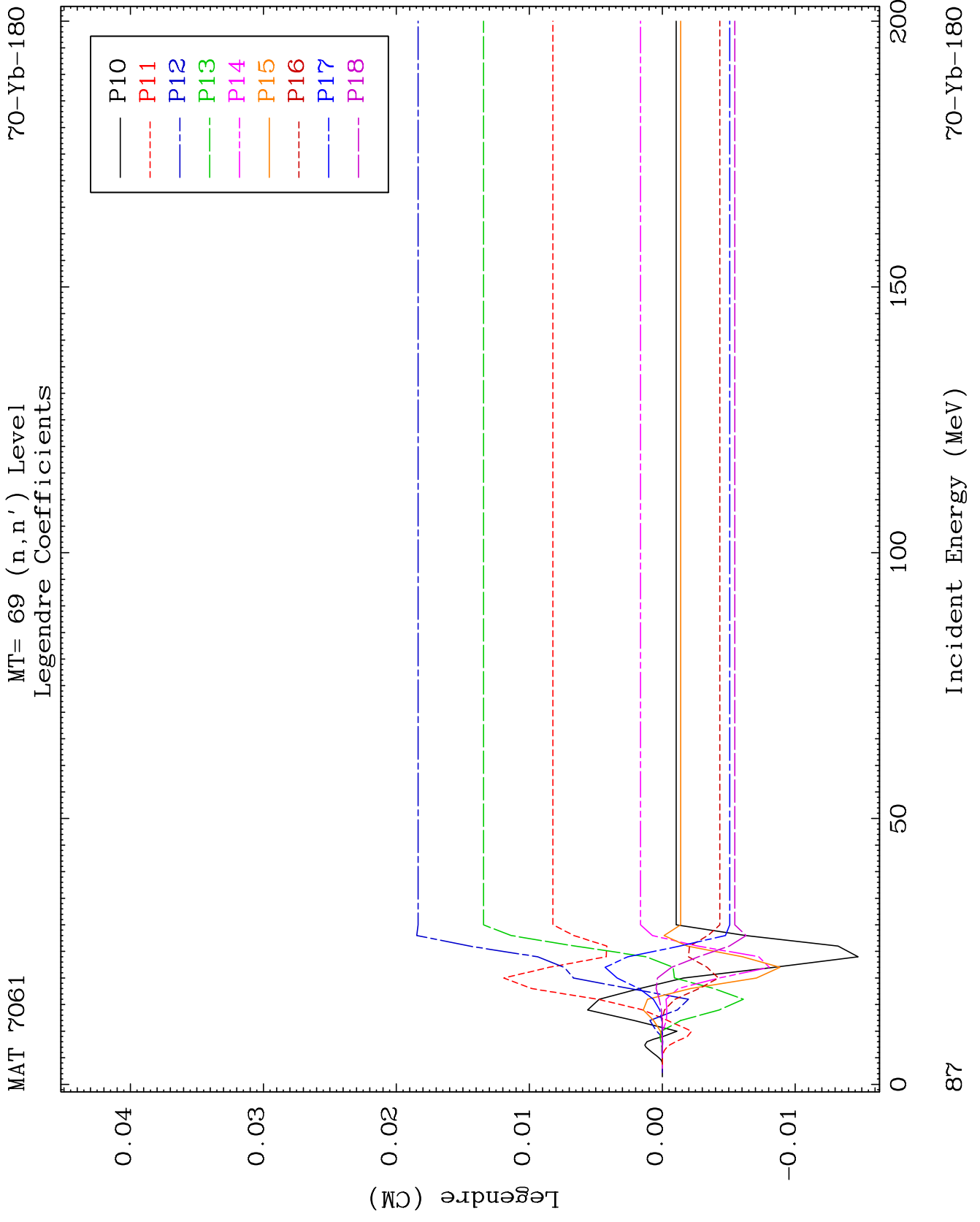
84

Incident Energy (MeV)

70-Yb-180



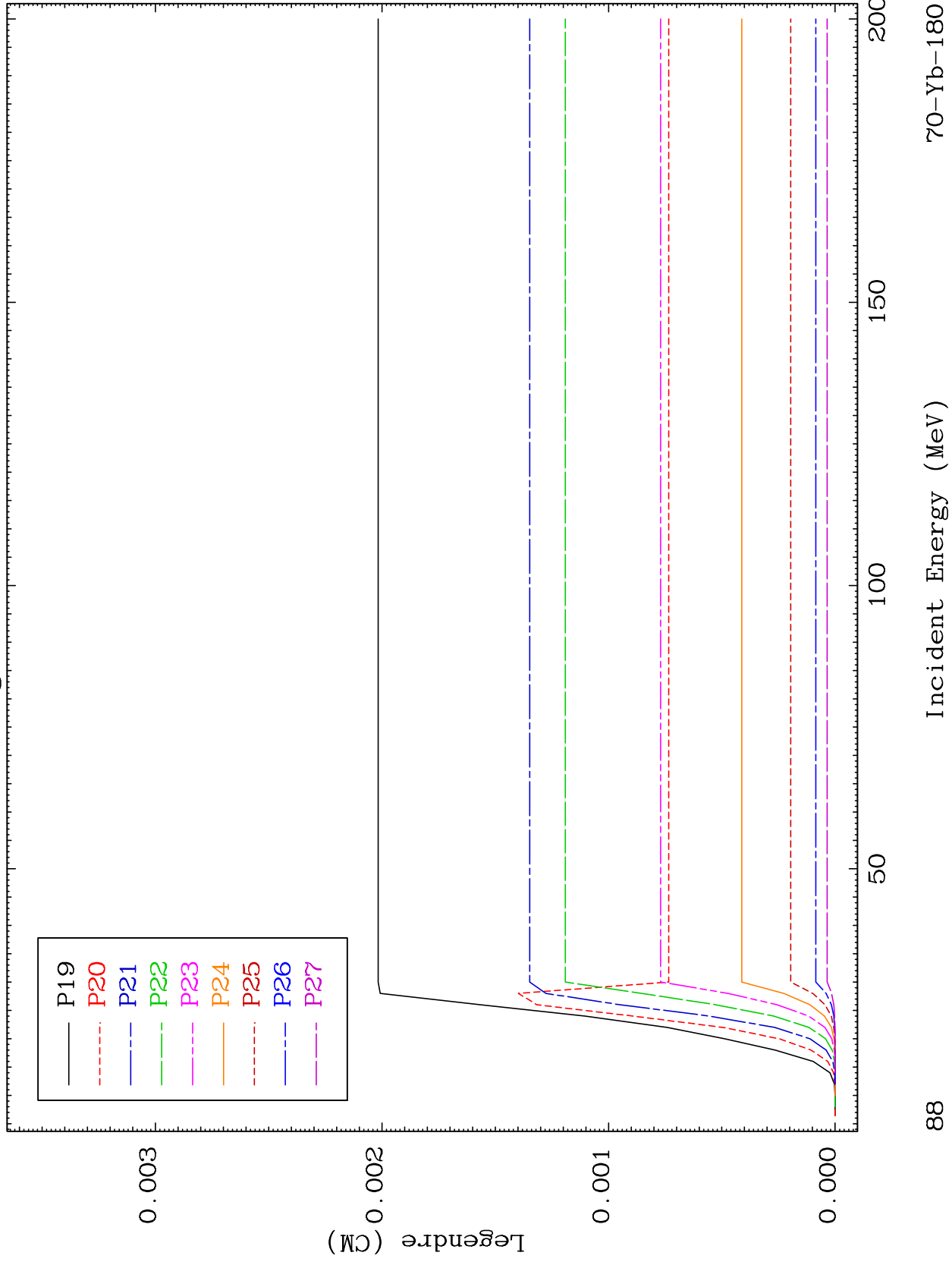


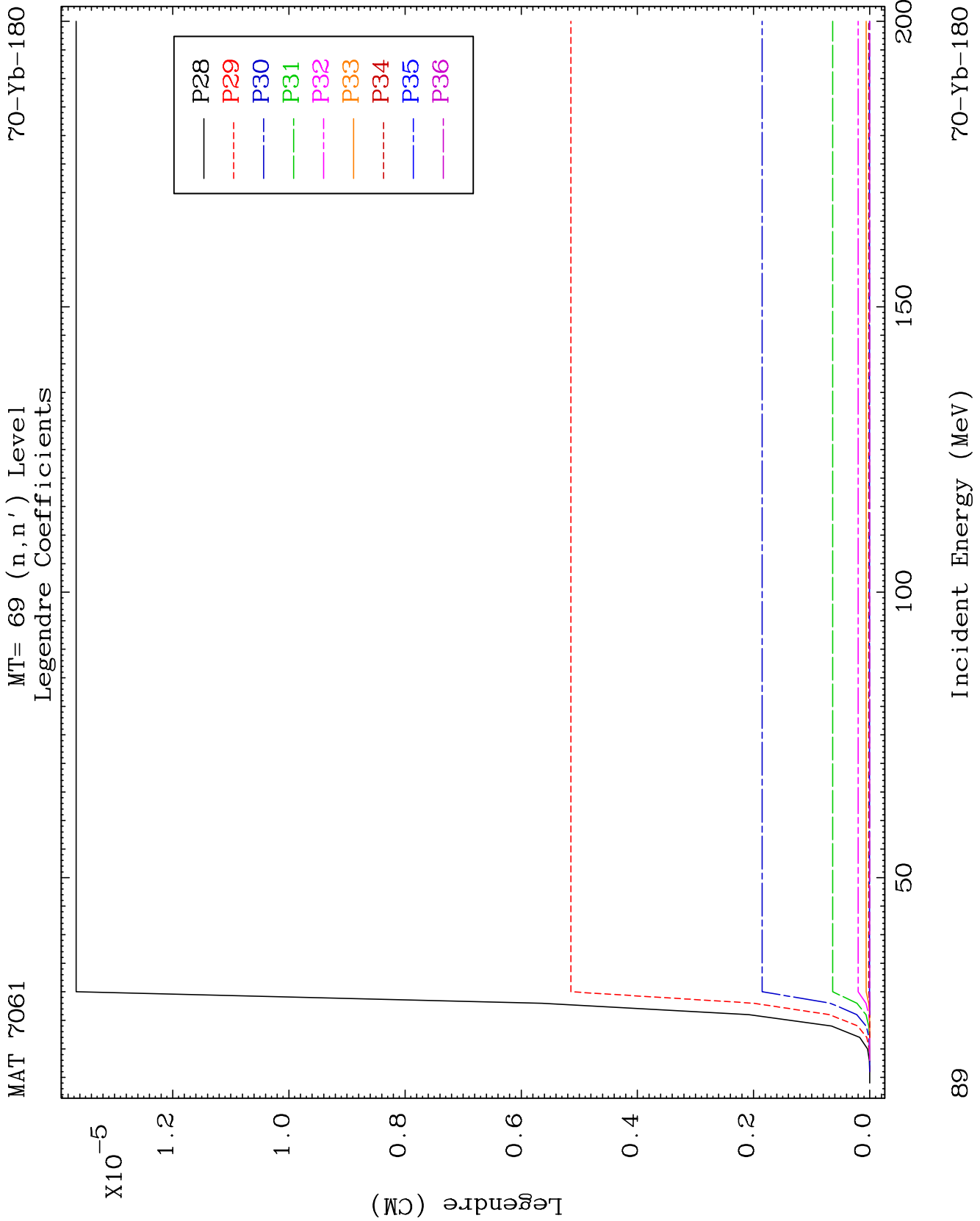


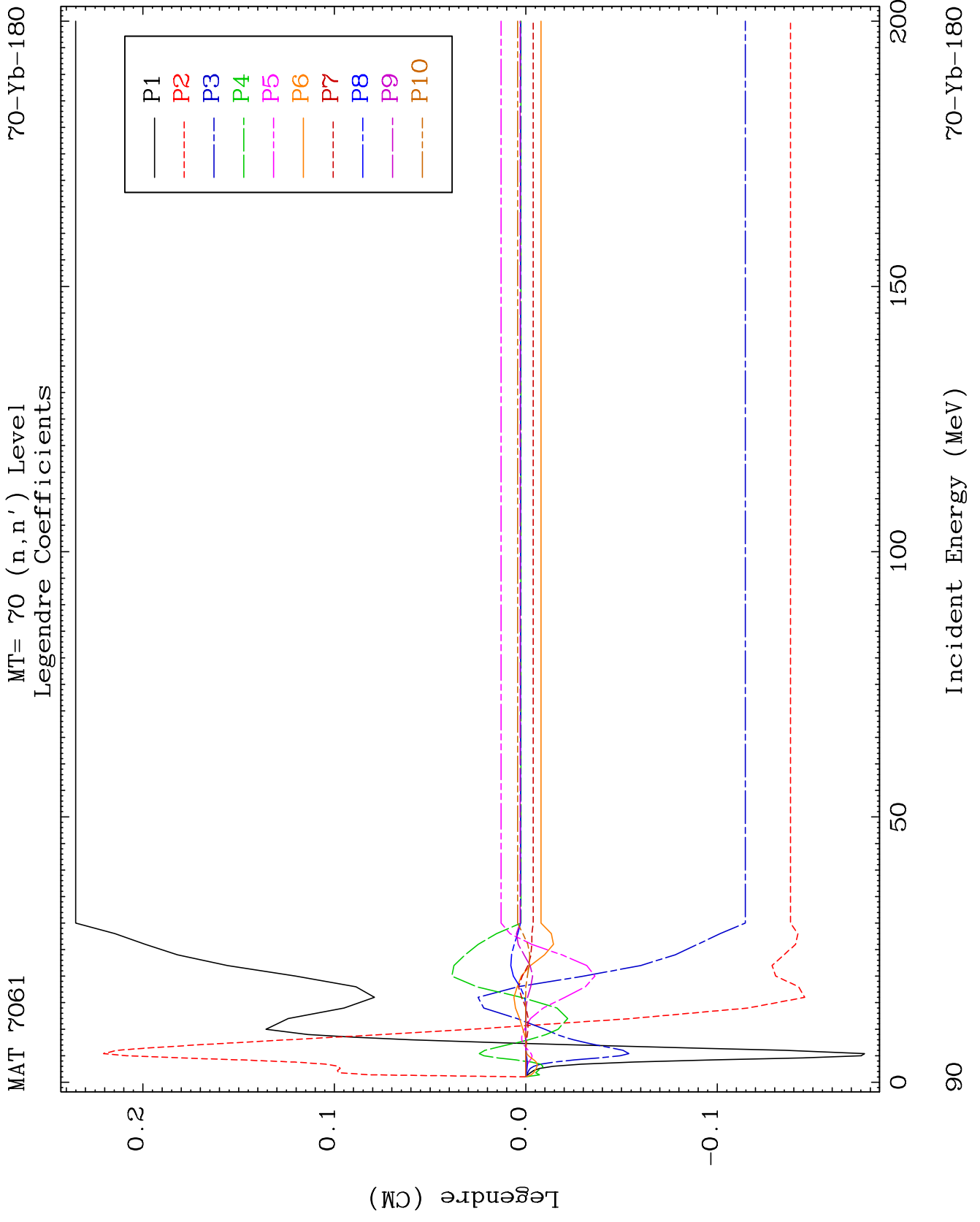
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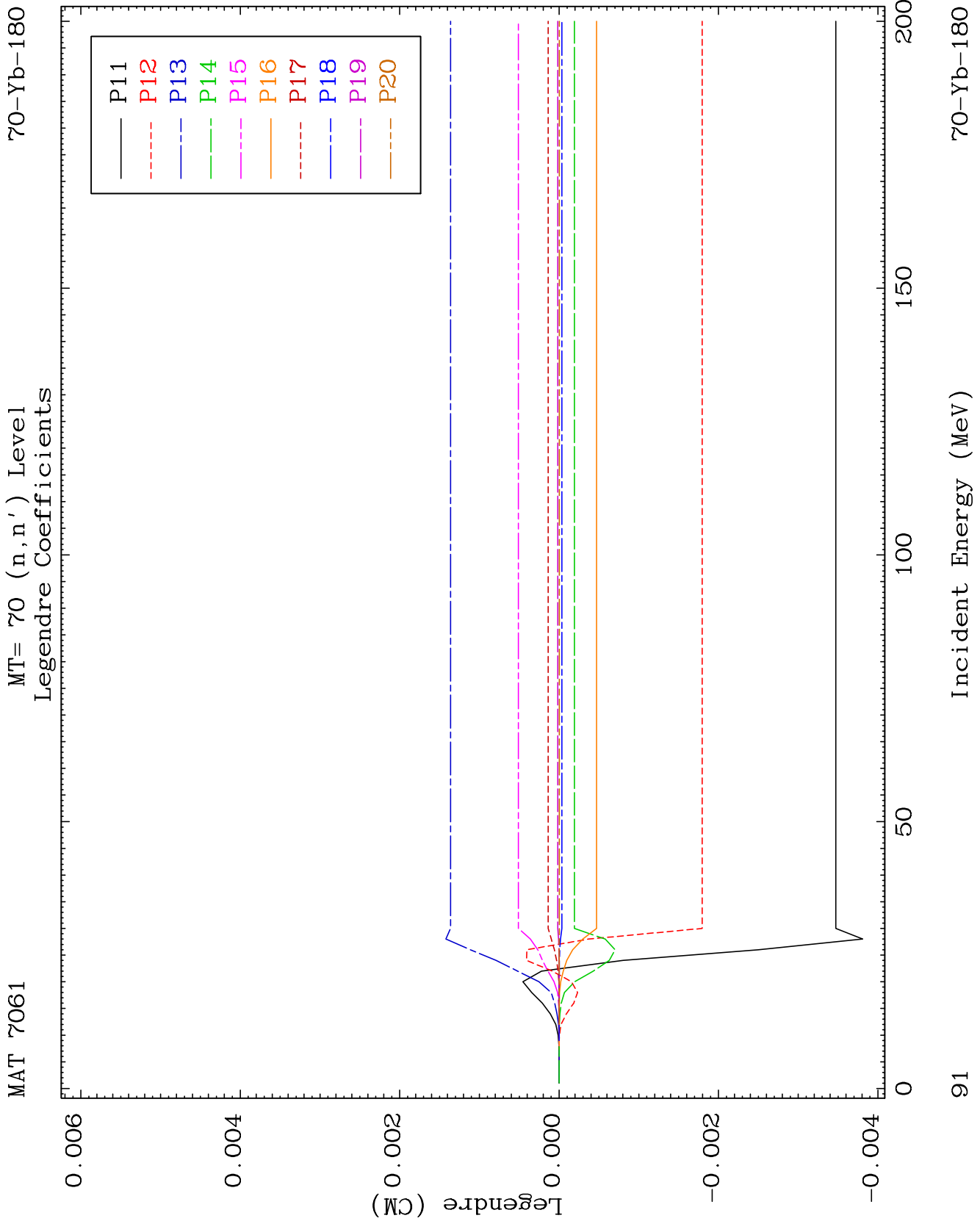
MT= 69 (n,n') Level
Legendre Coefficients

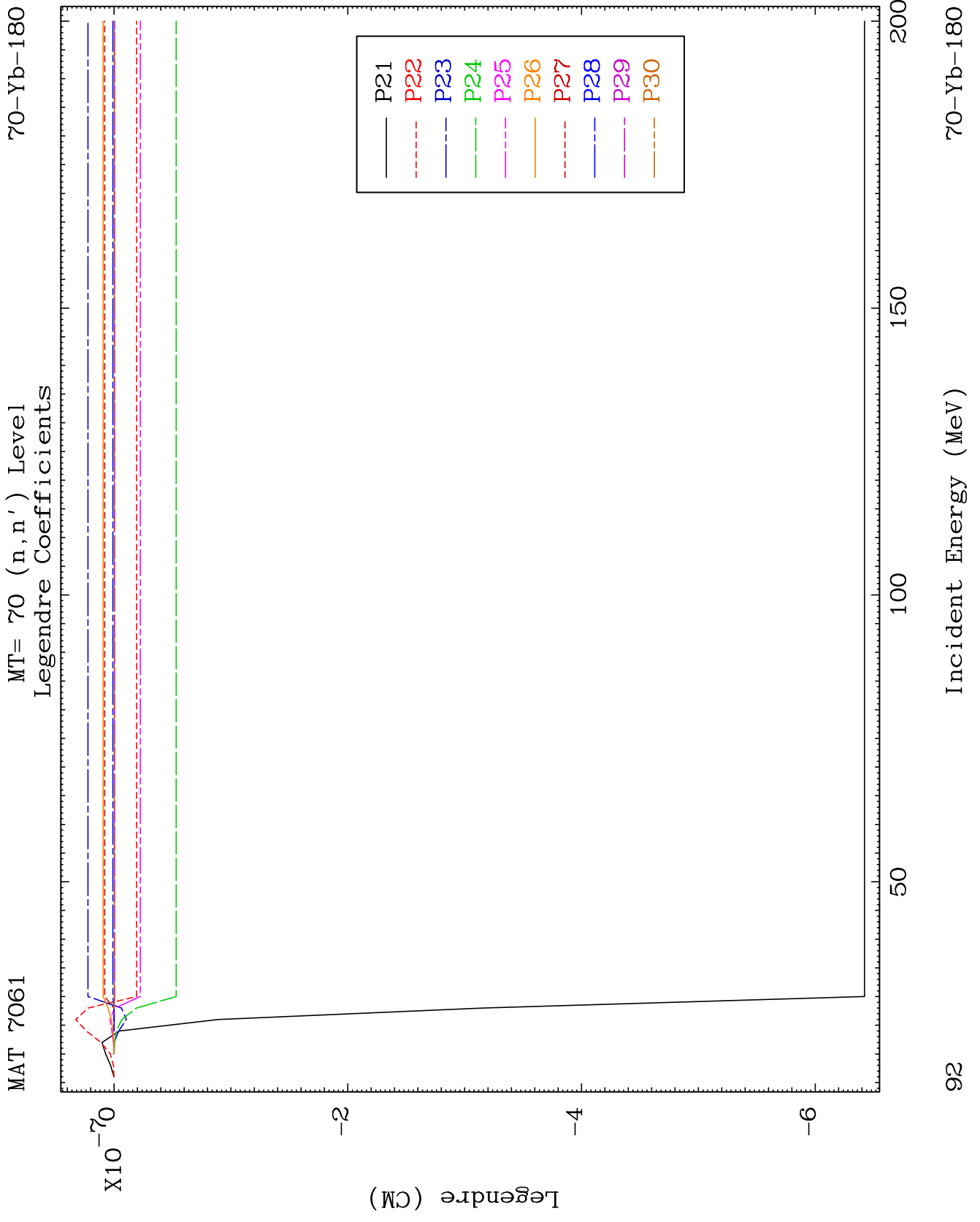
70-Yb-180

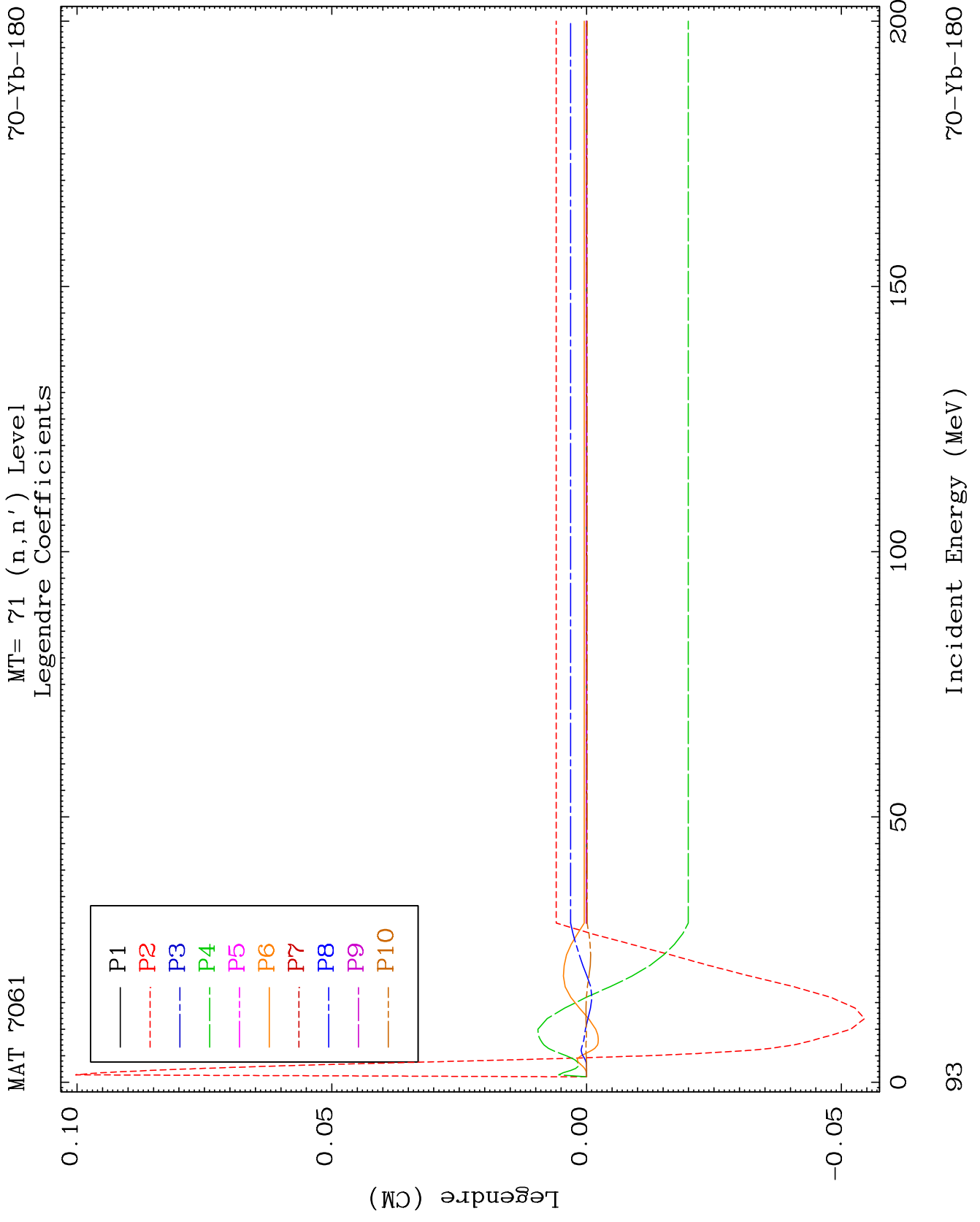


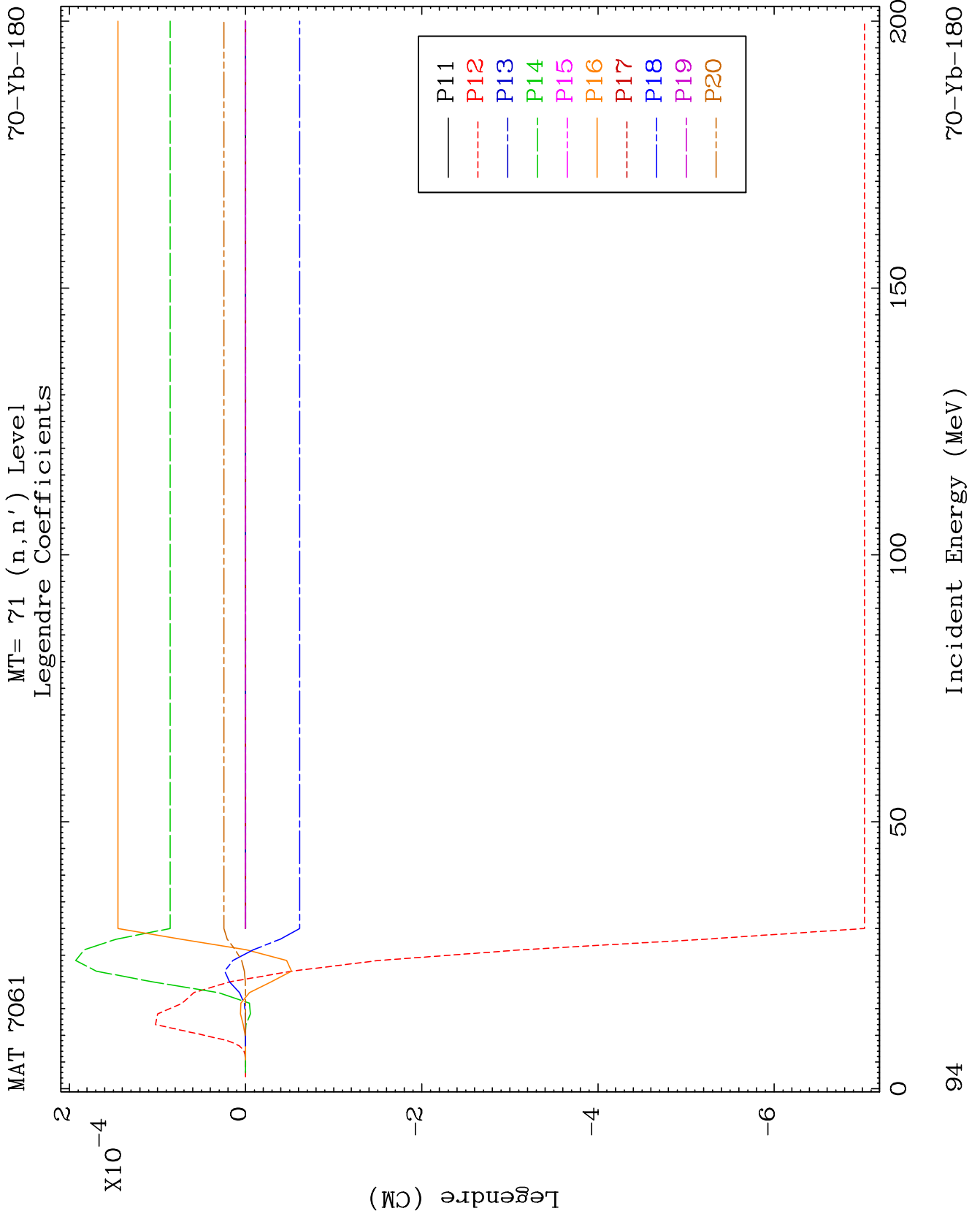


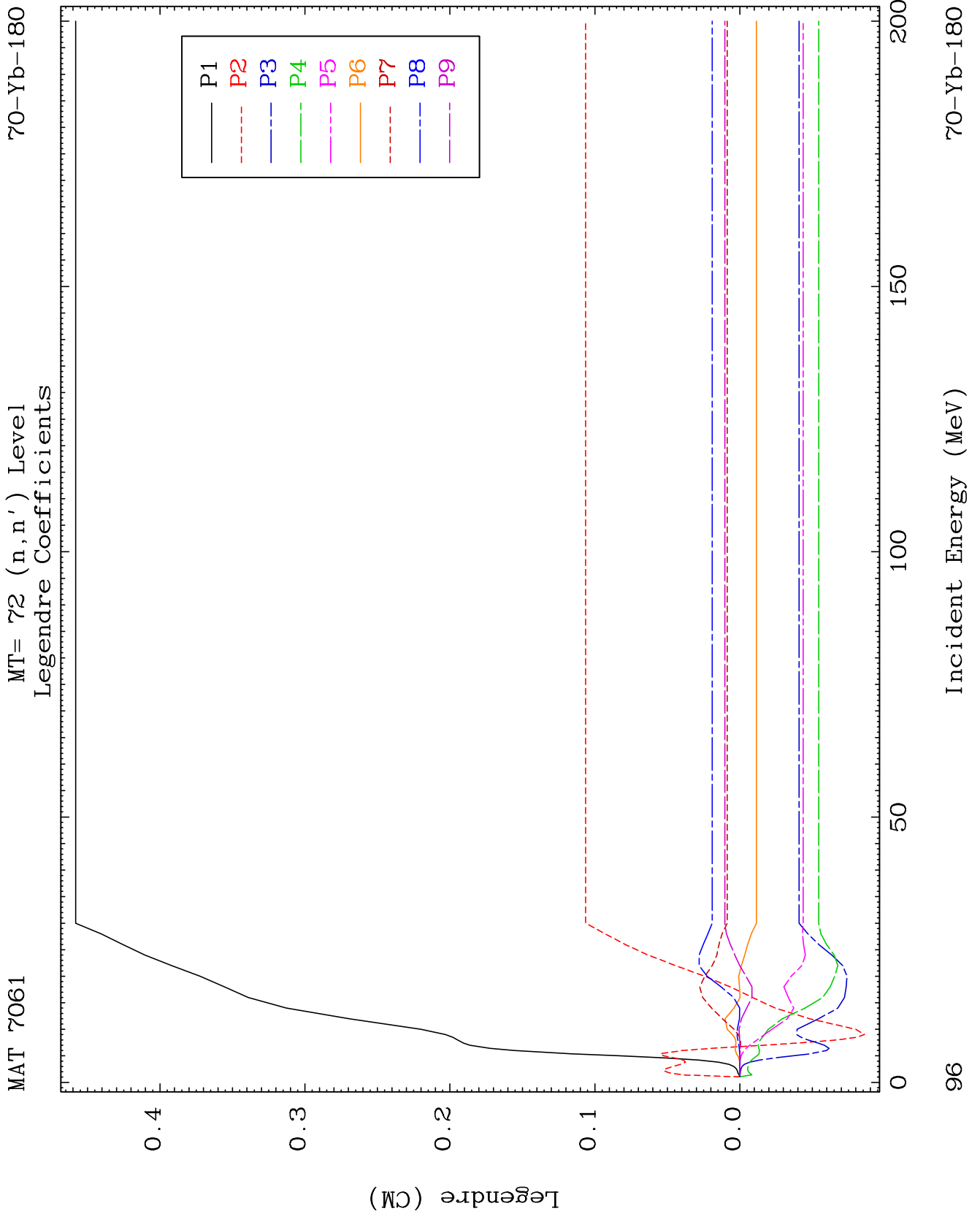


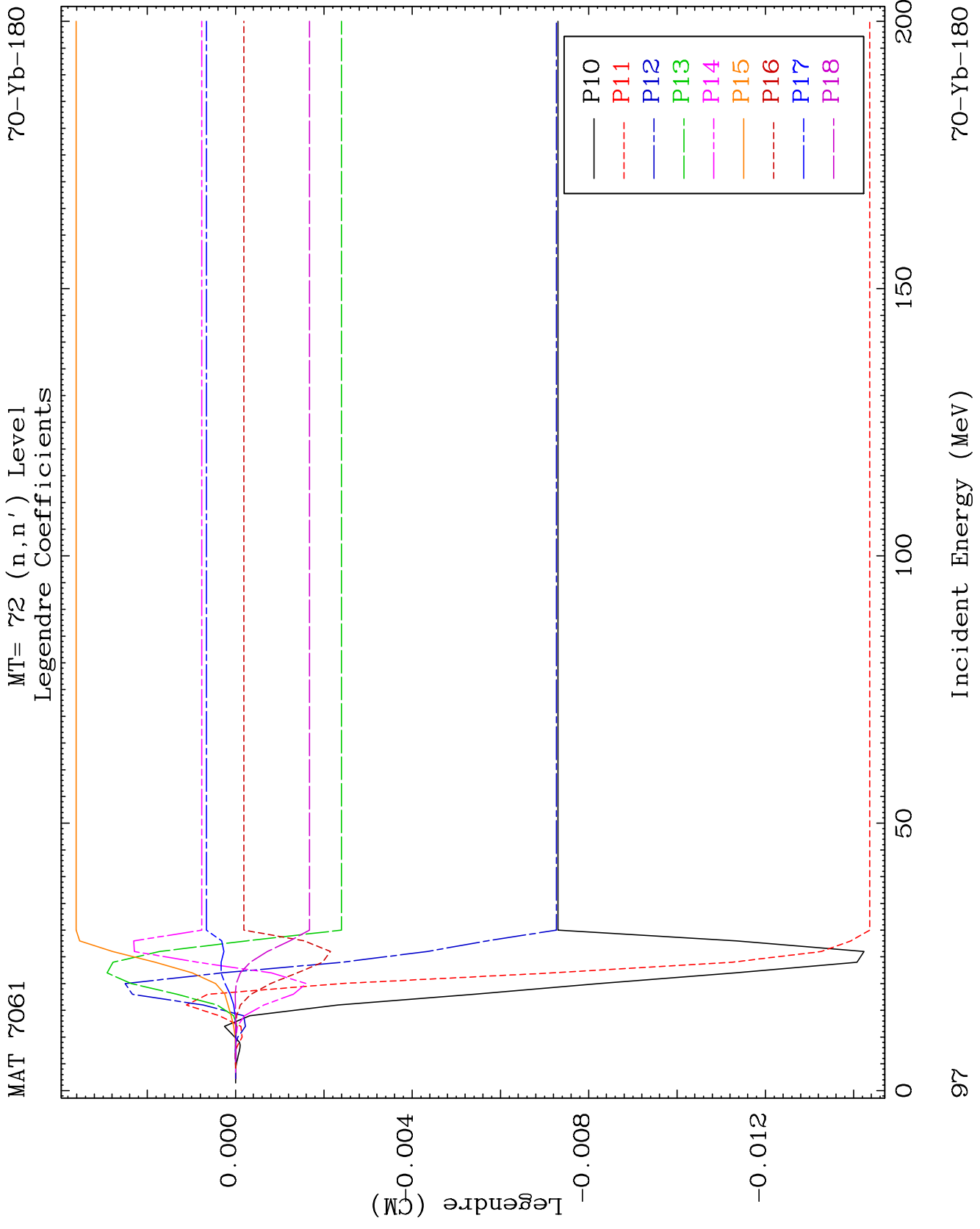








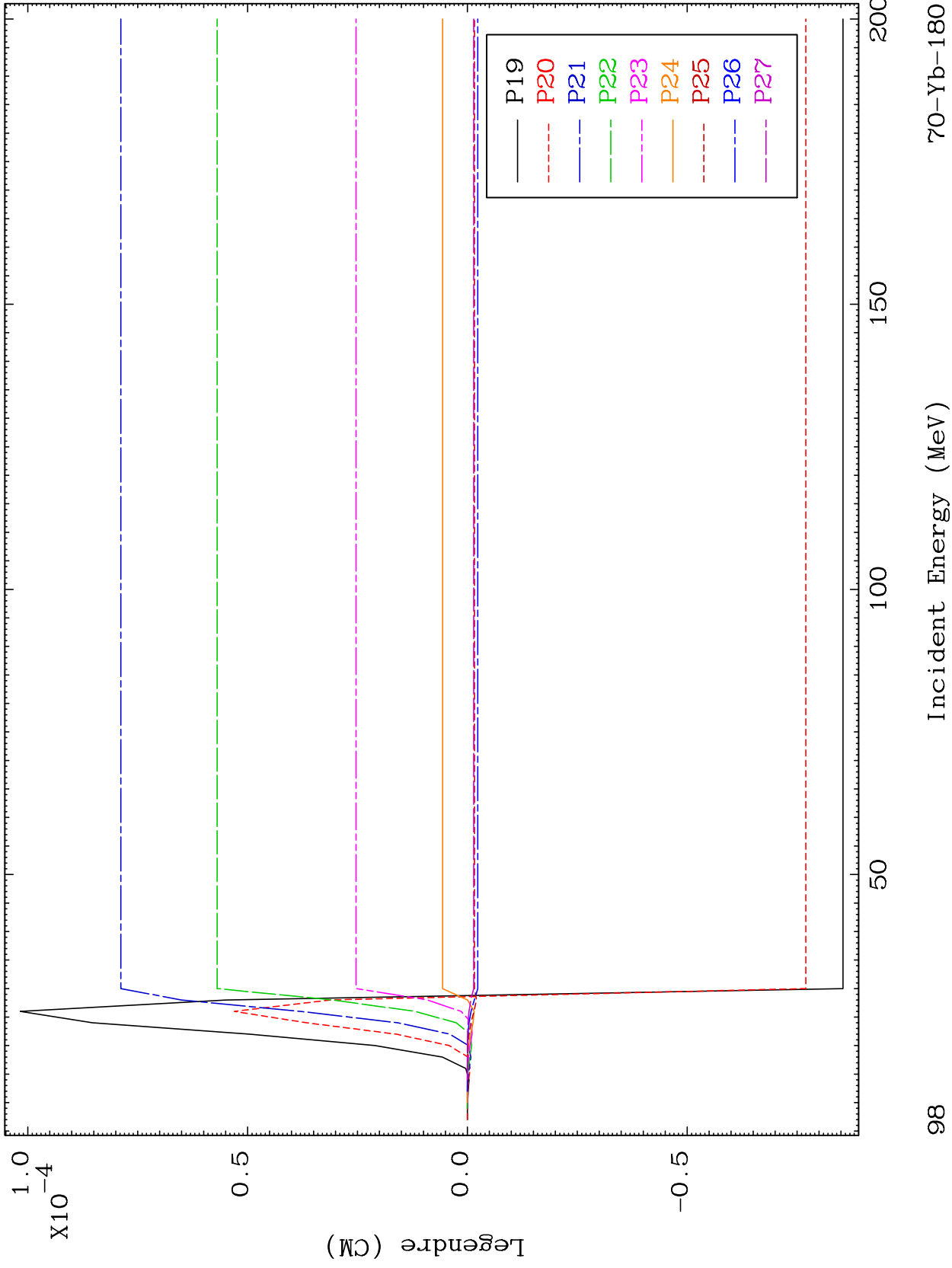


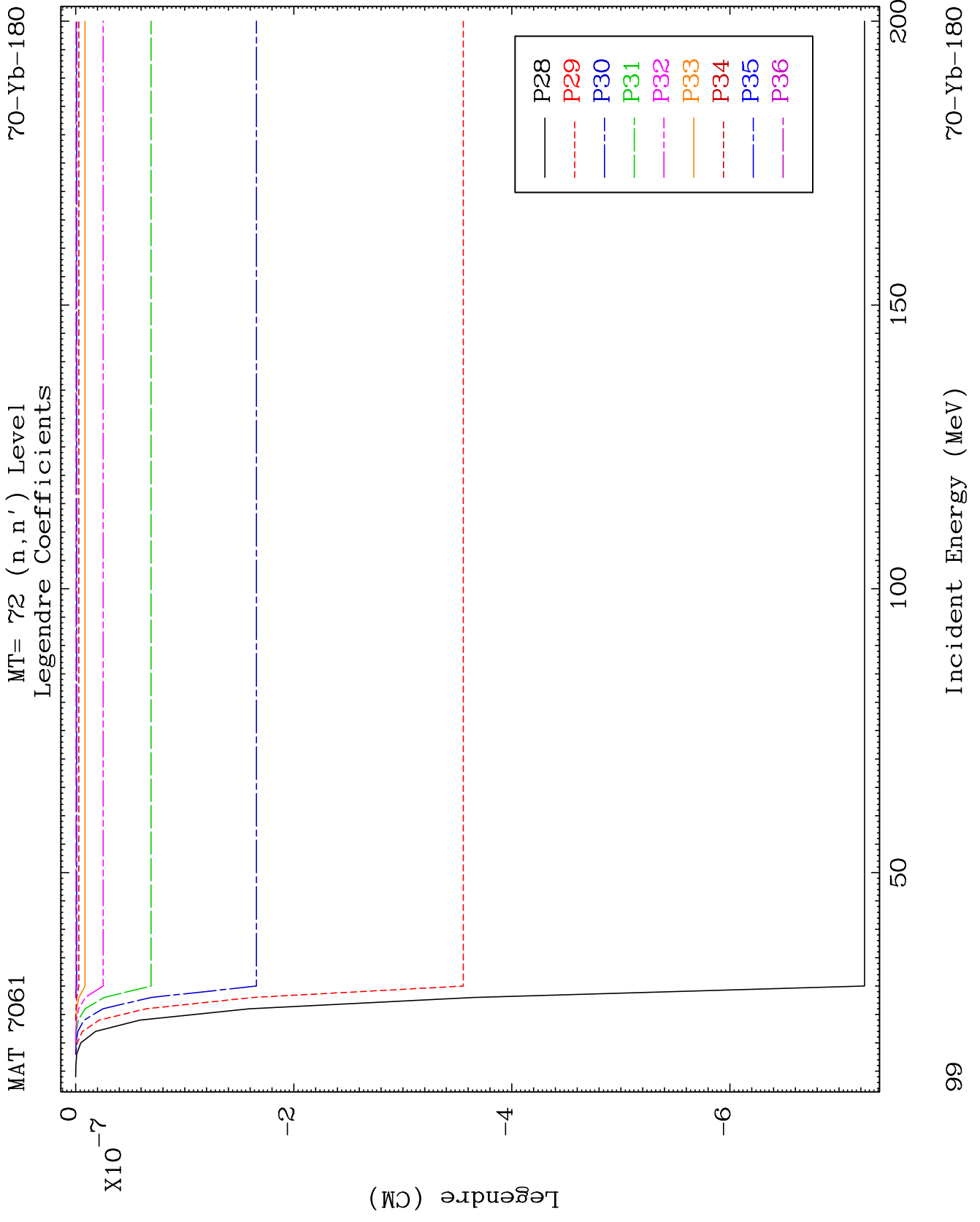


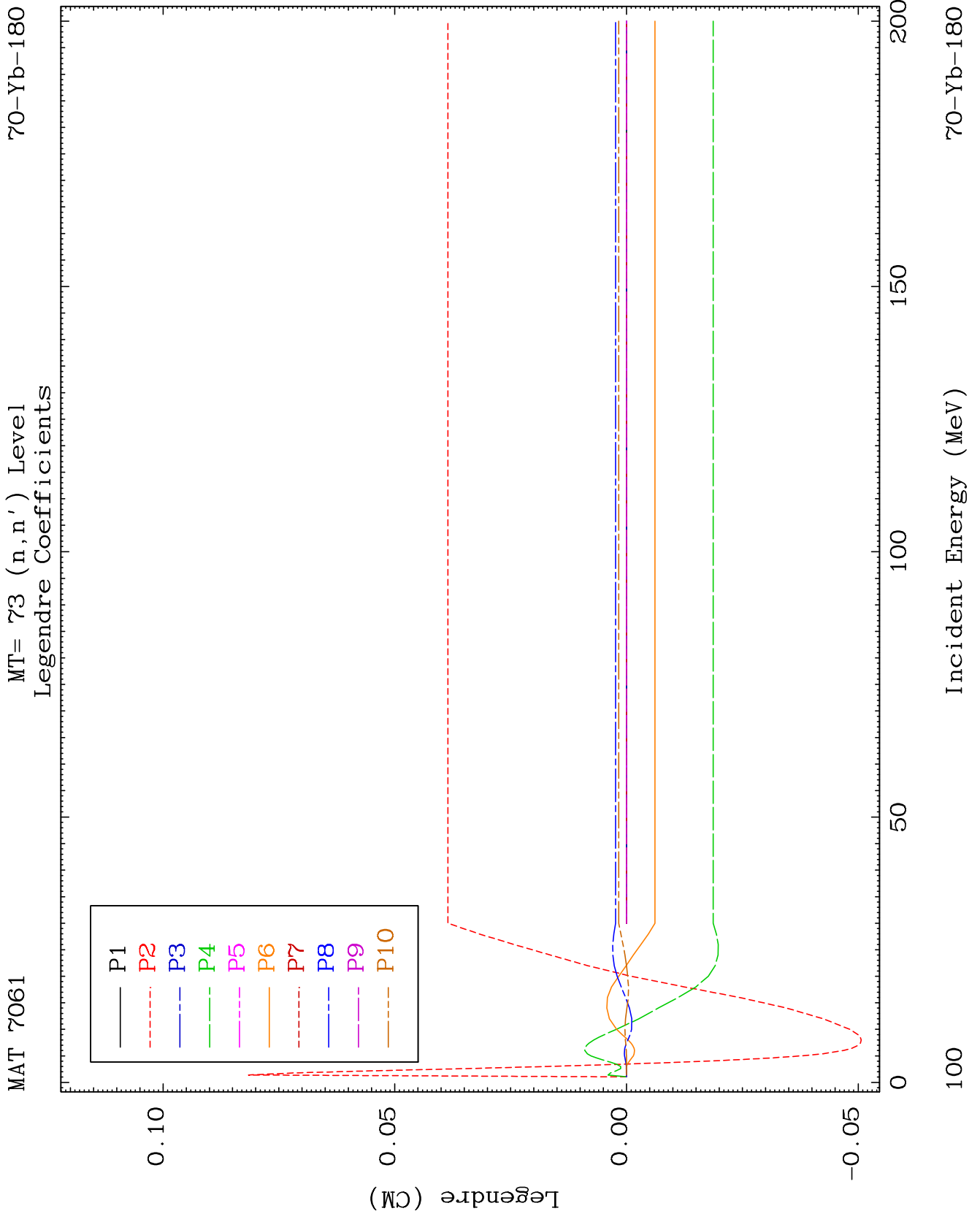
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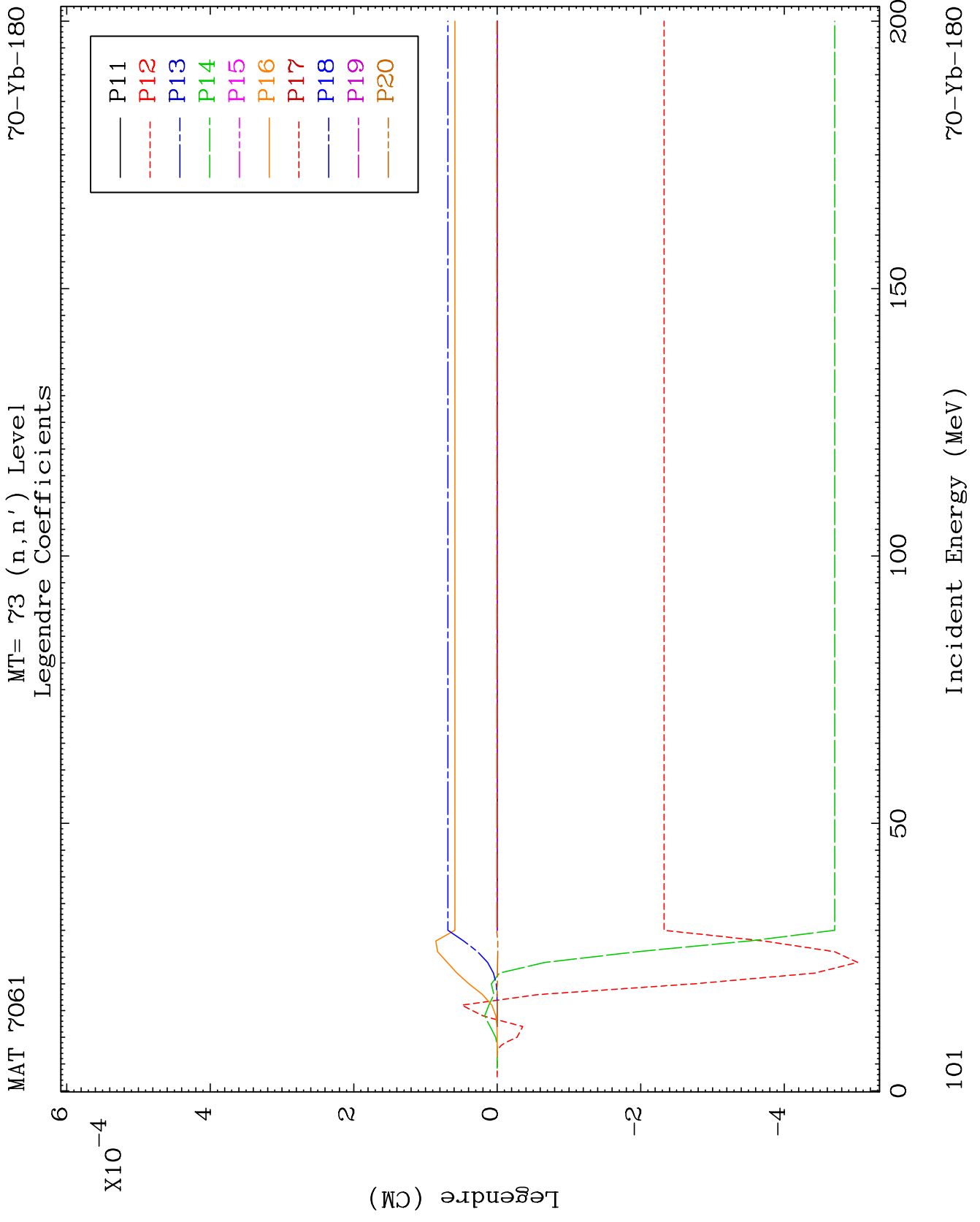
MT= 72 (n,n') Level
Legendre Coefficients

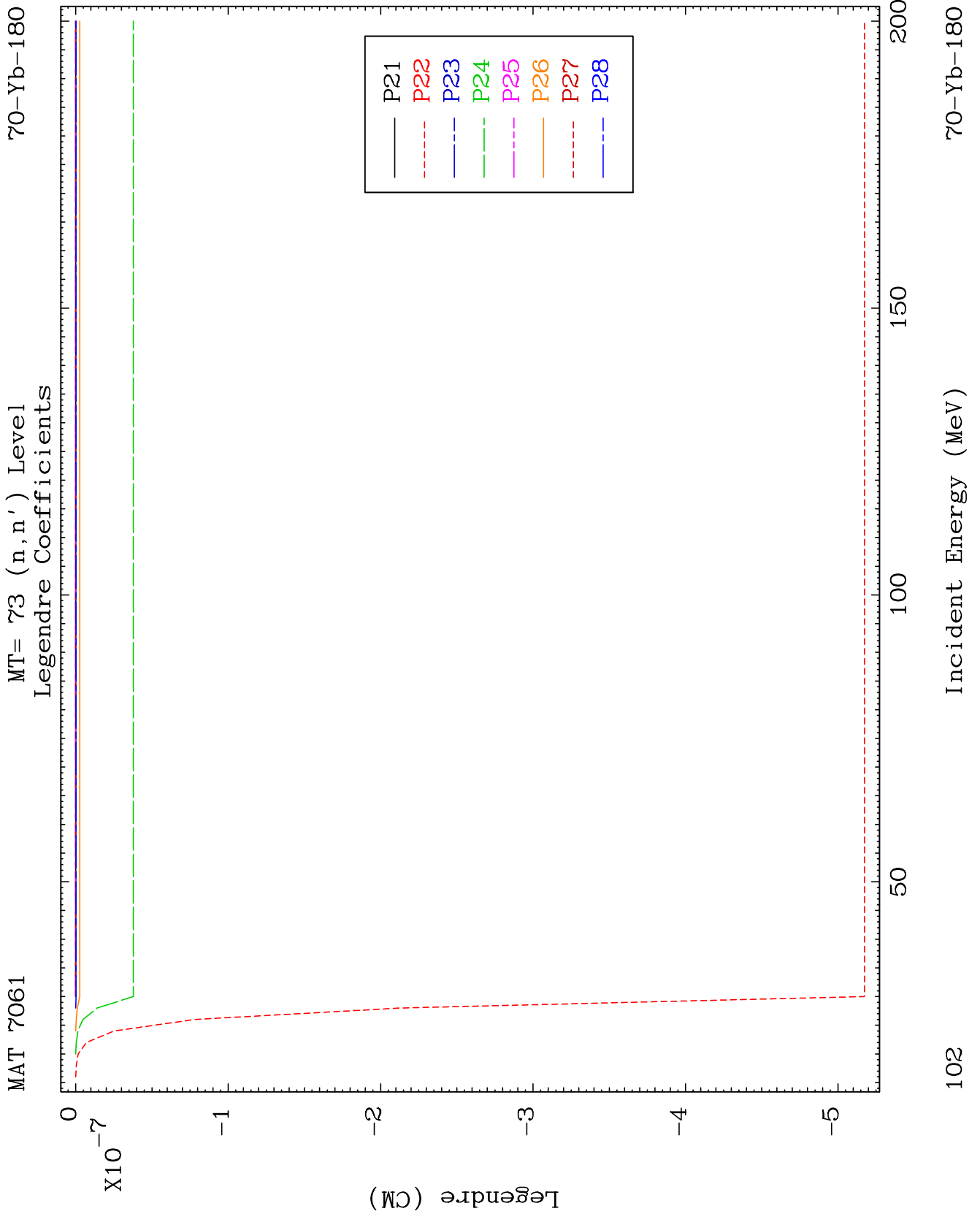
70-Yb-180

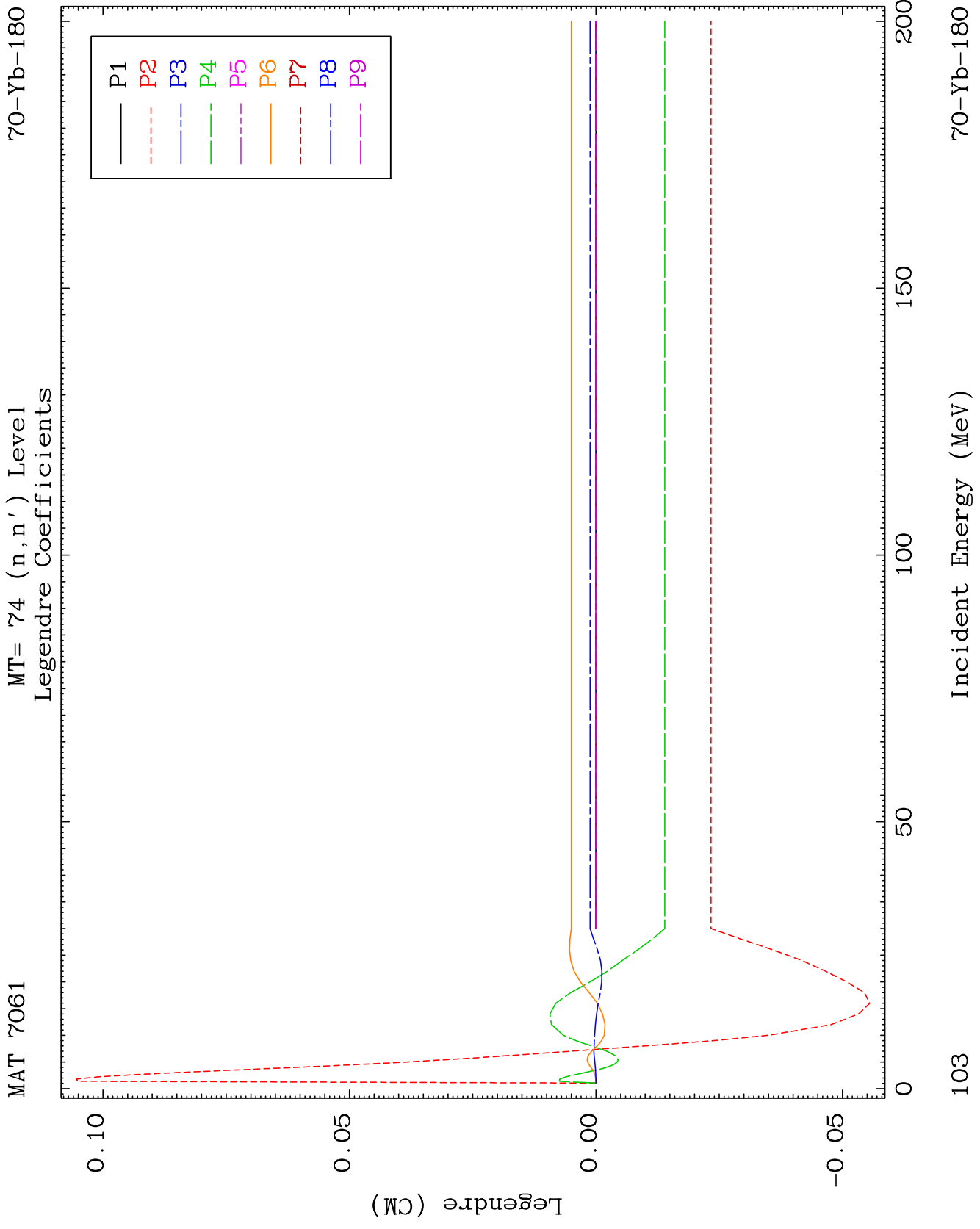


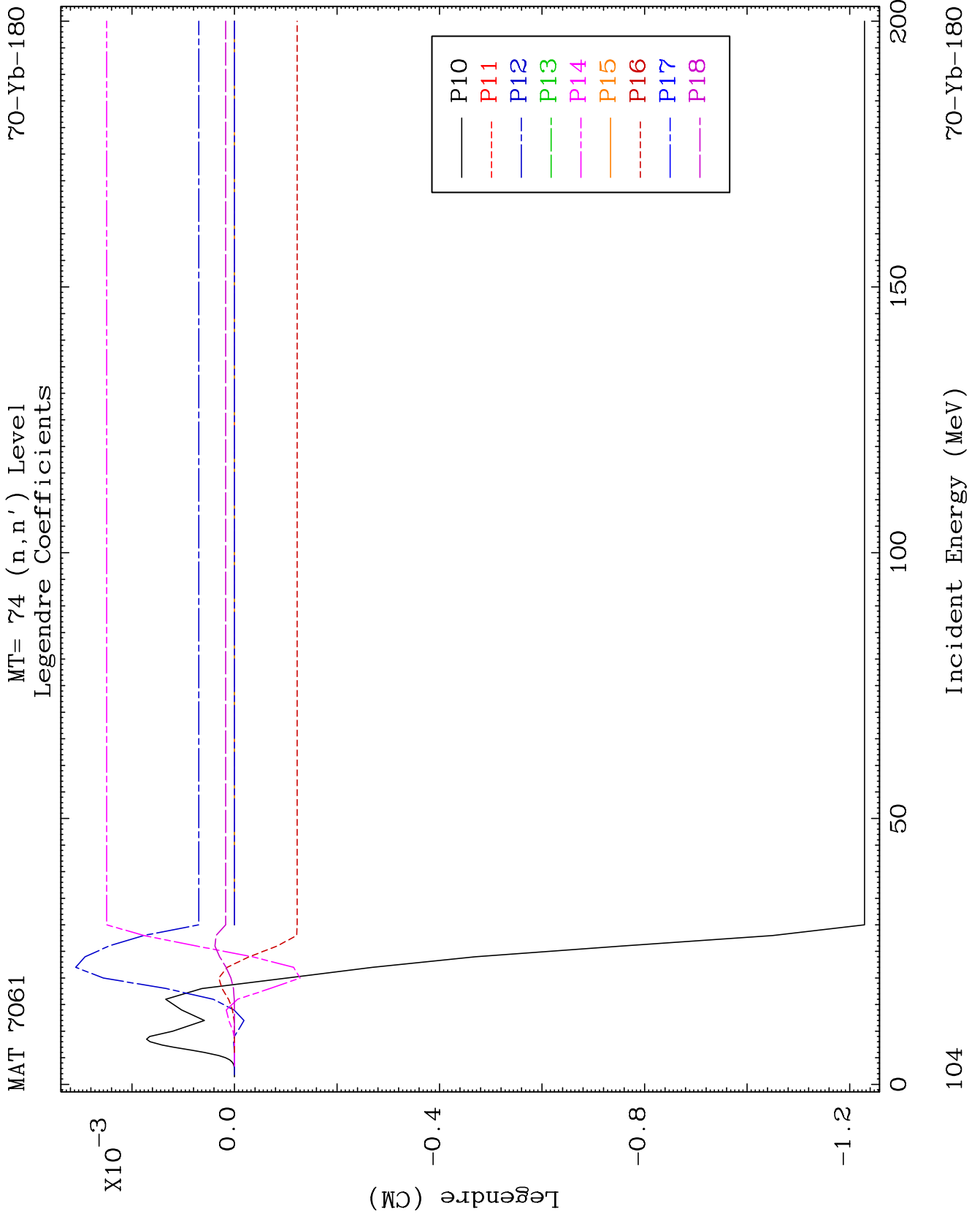


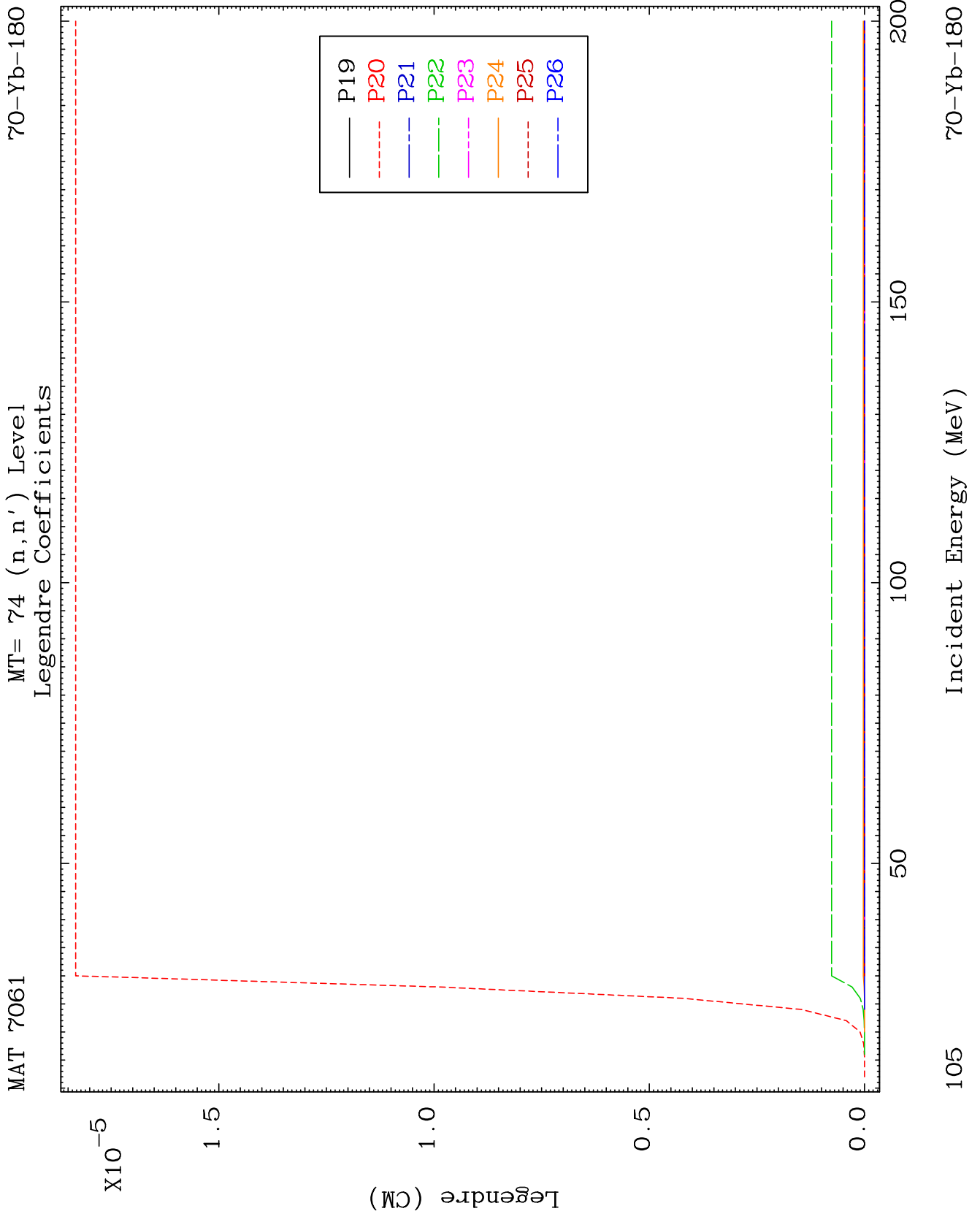


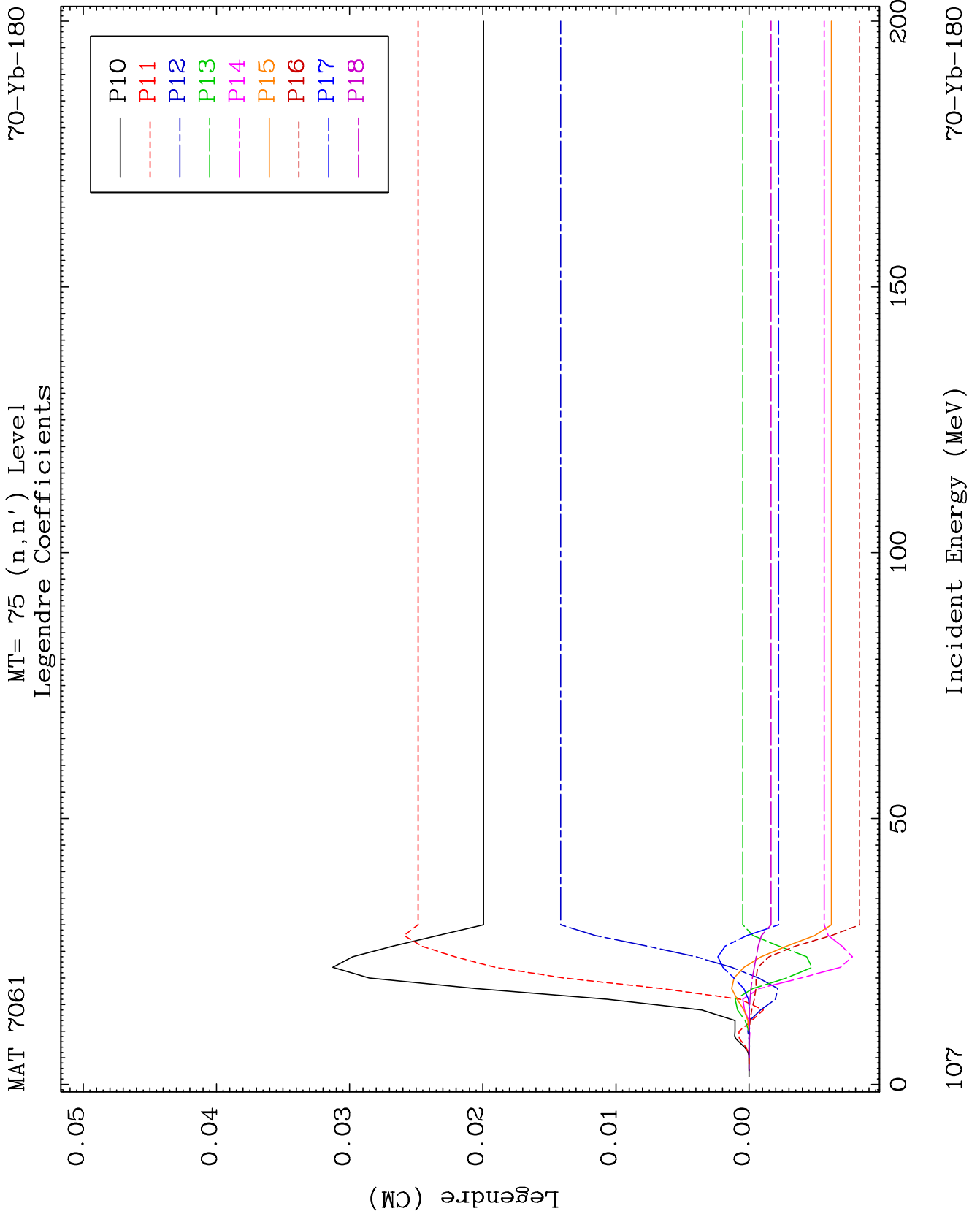








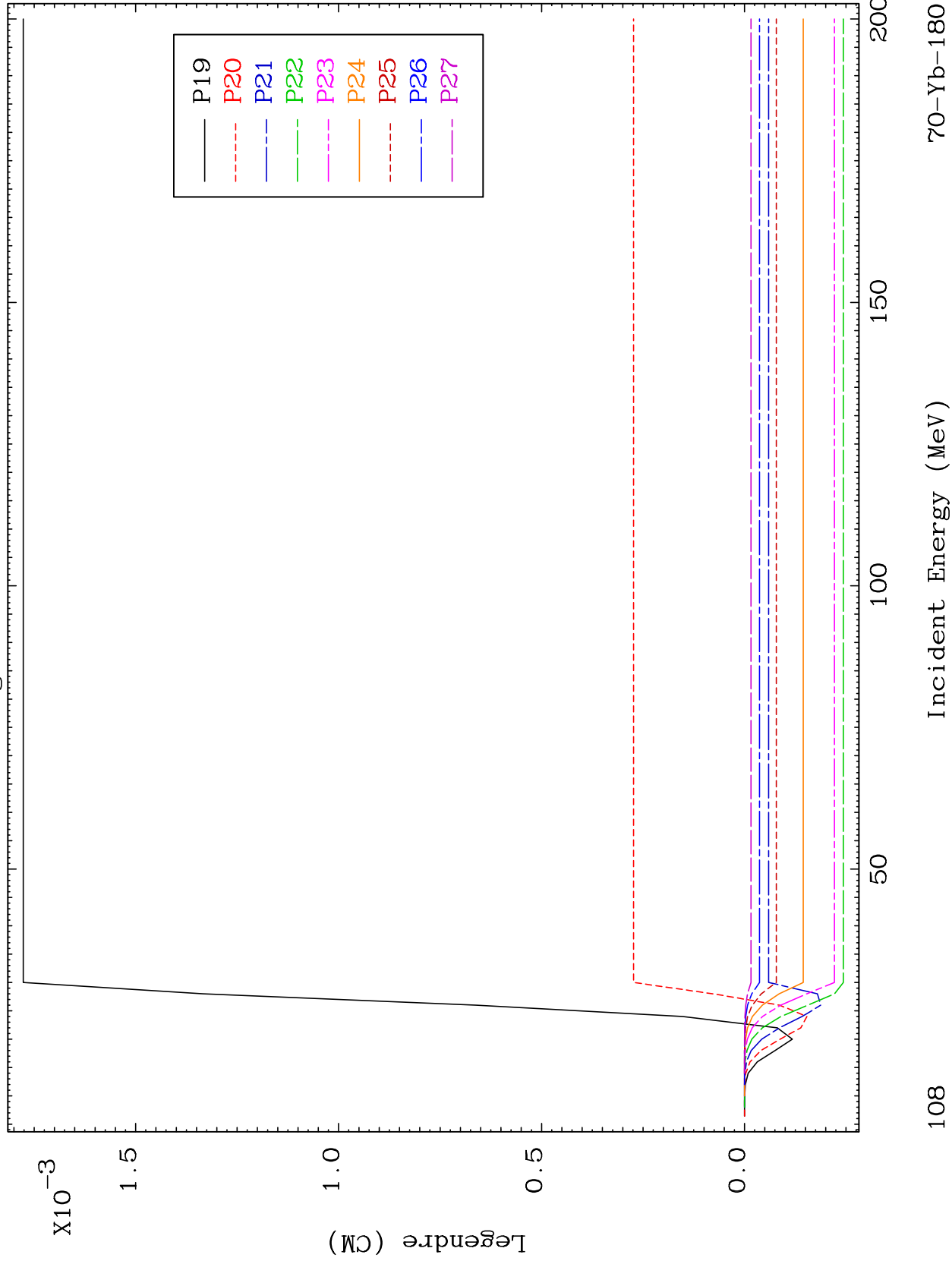




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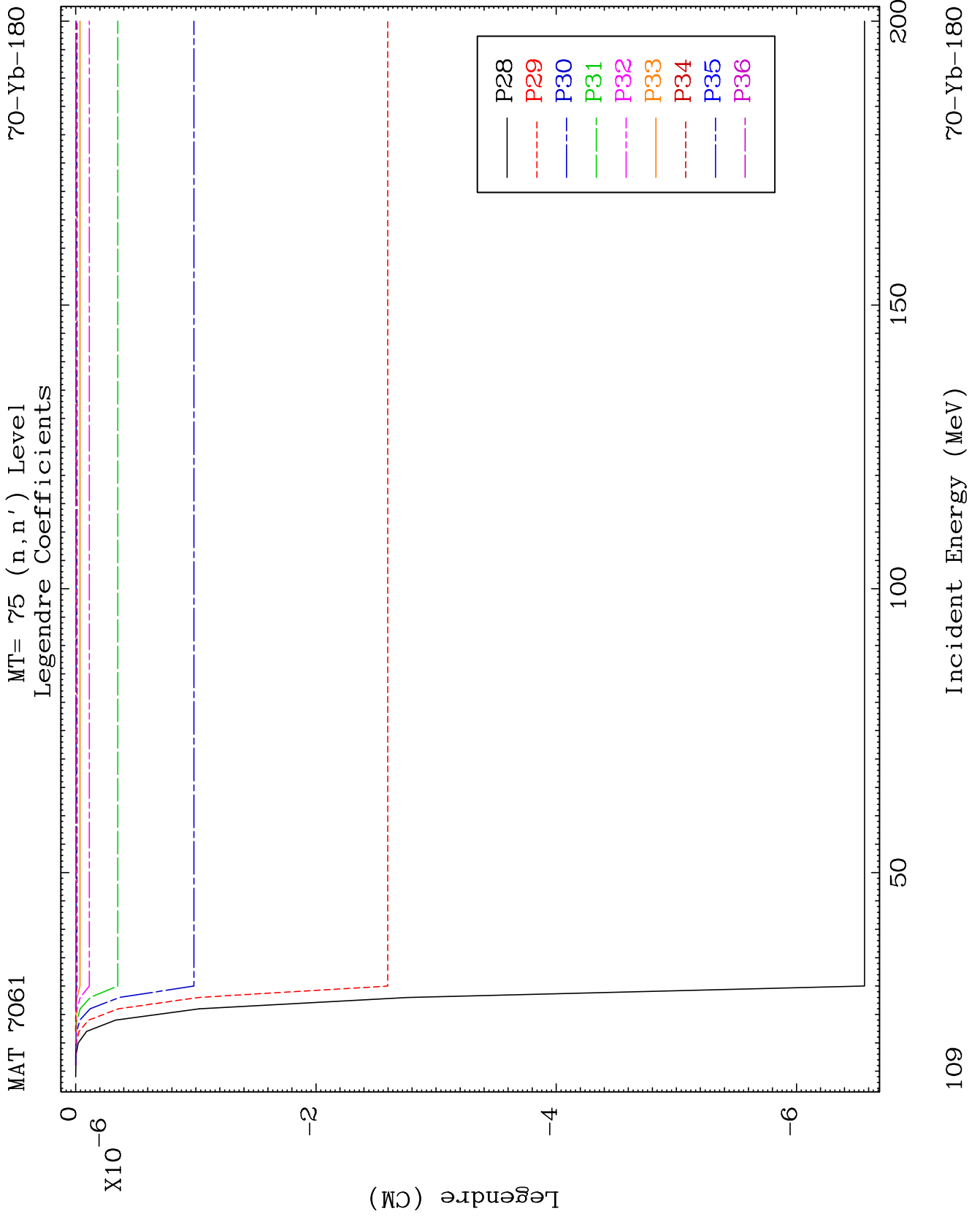
MT= 75 (n,n') Level
Legendre Coefficients

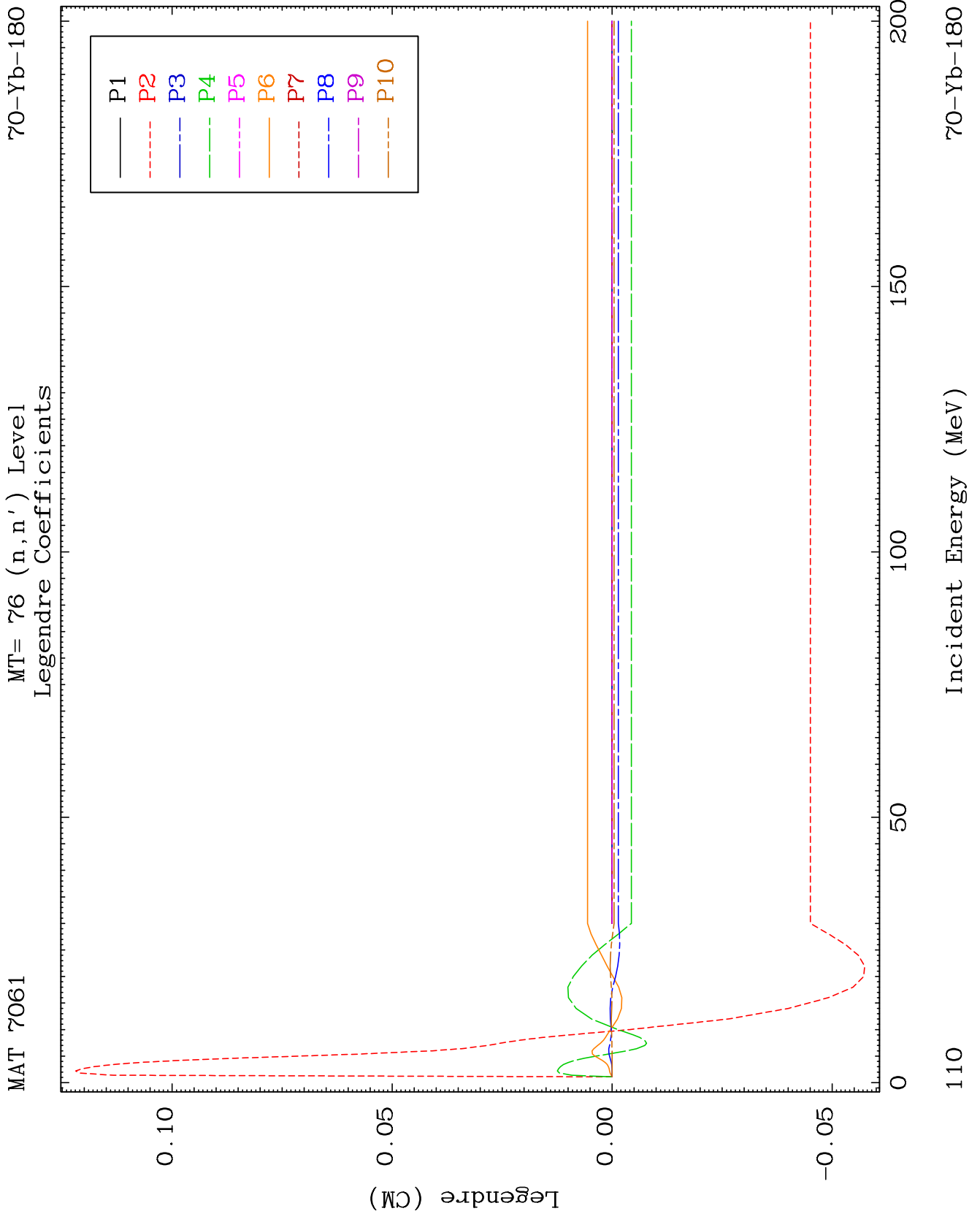
70-Yb-180

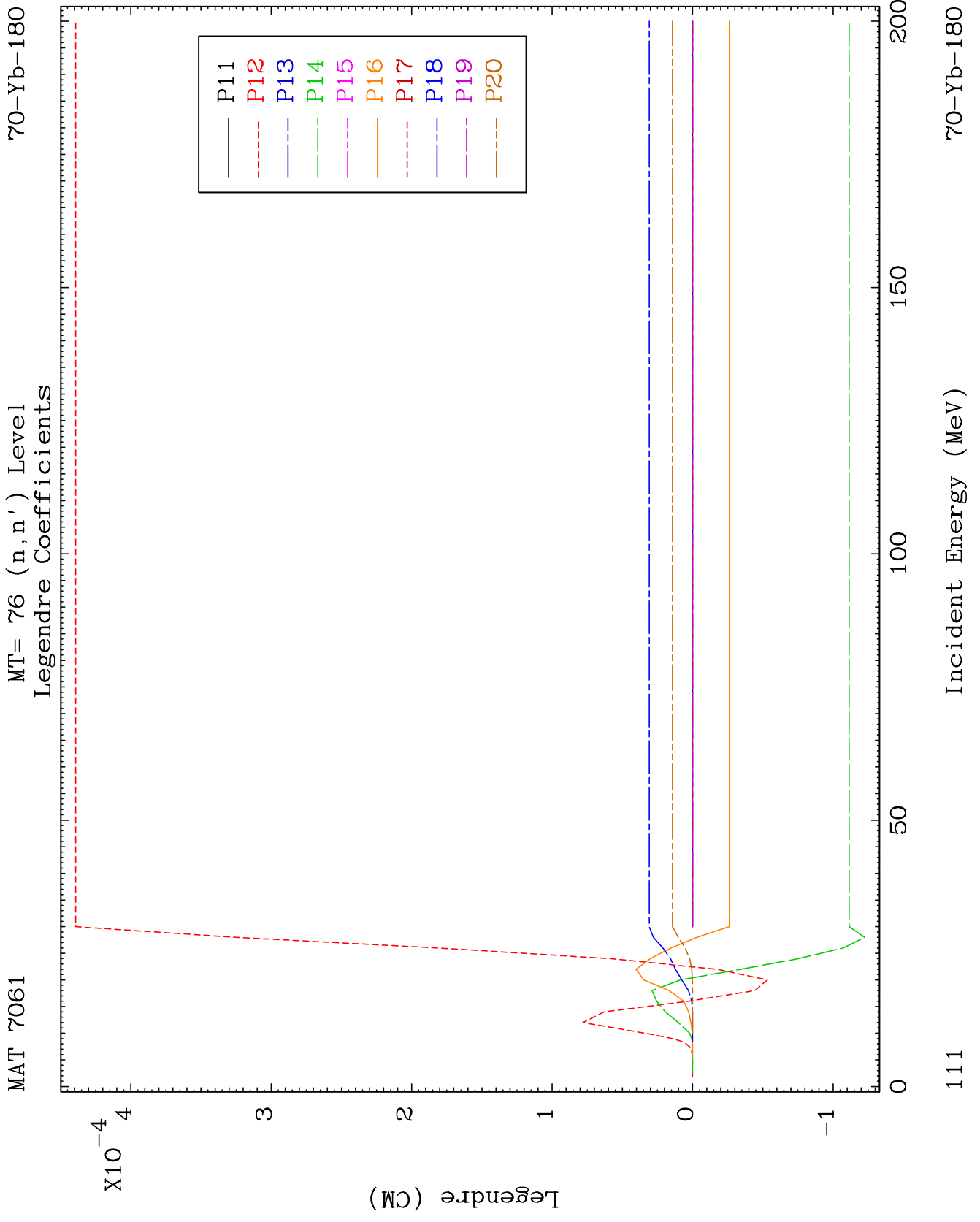


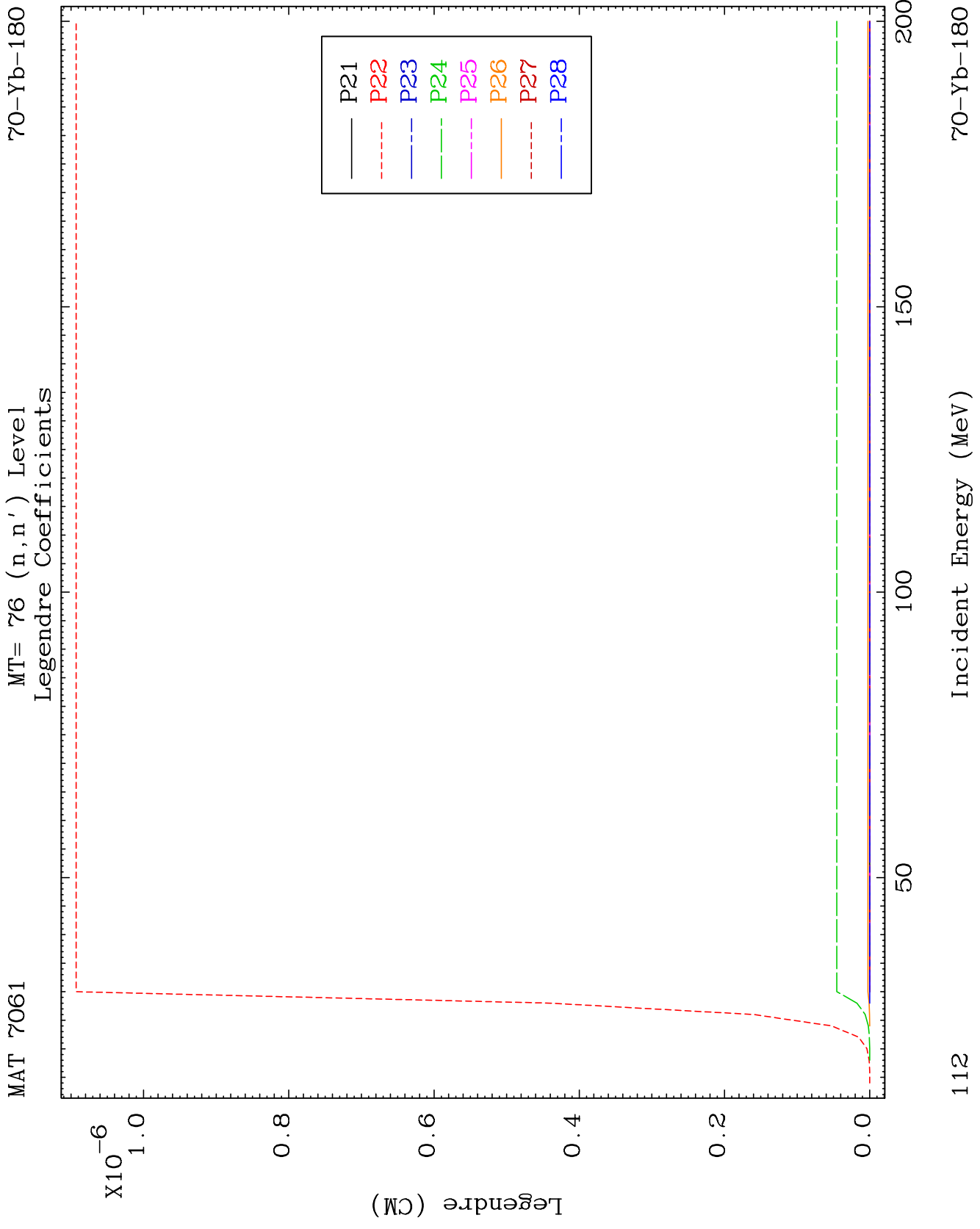
108

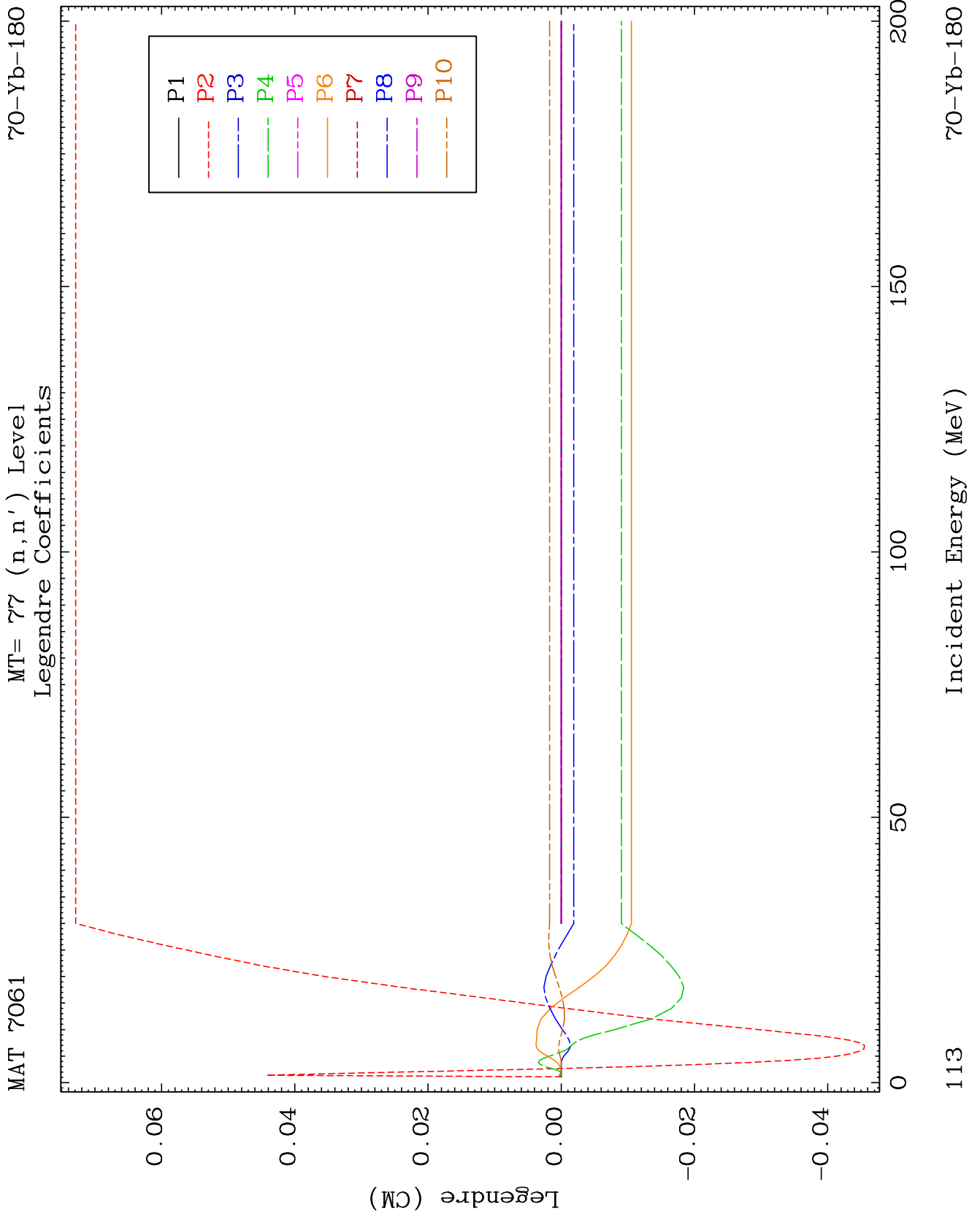
70-Yb-180







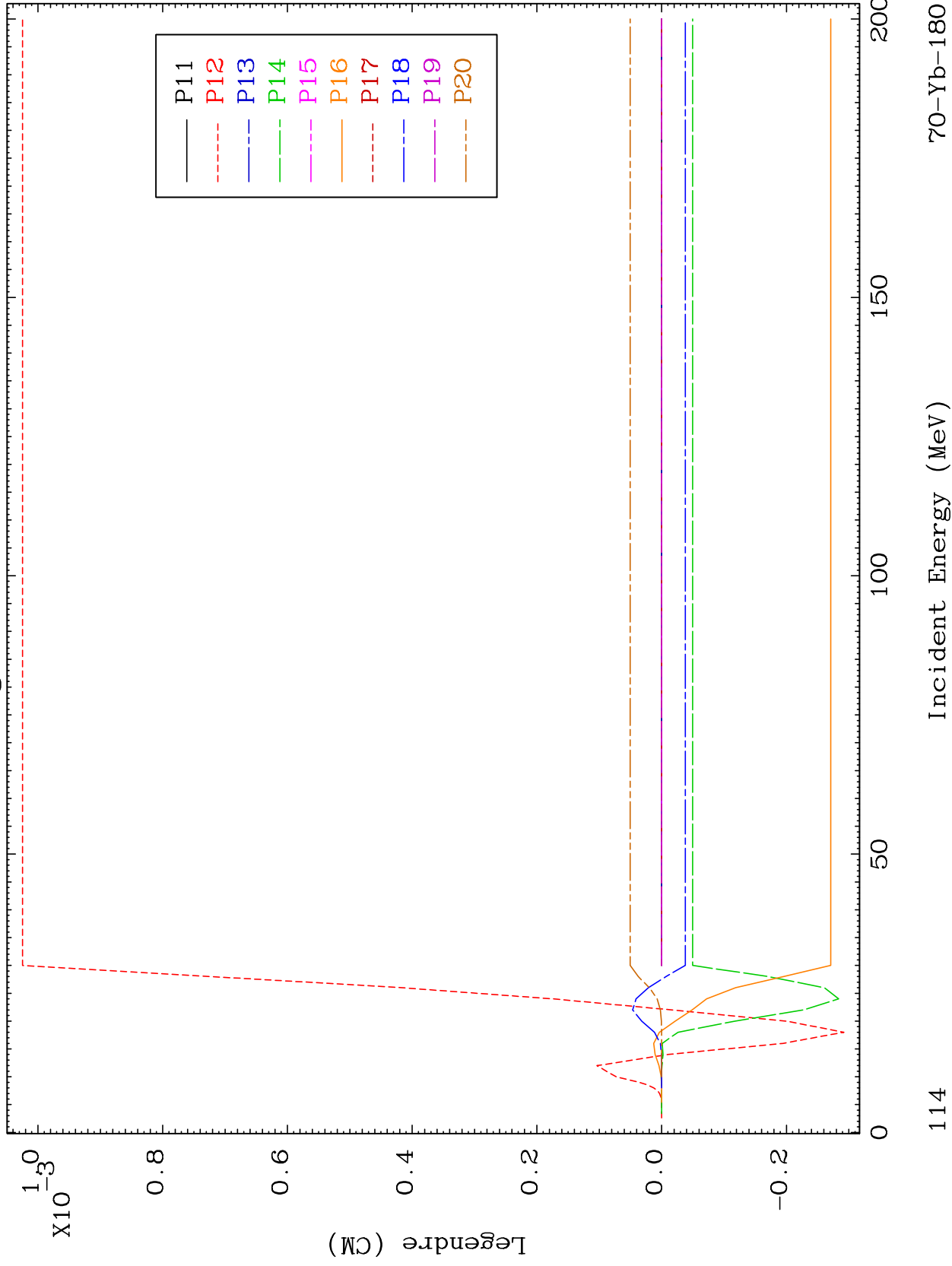




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MT= 77 (n,n') Level
Legendre Coefficients

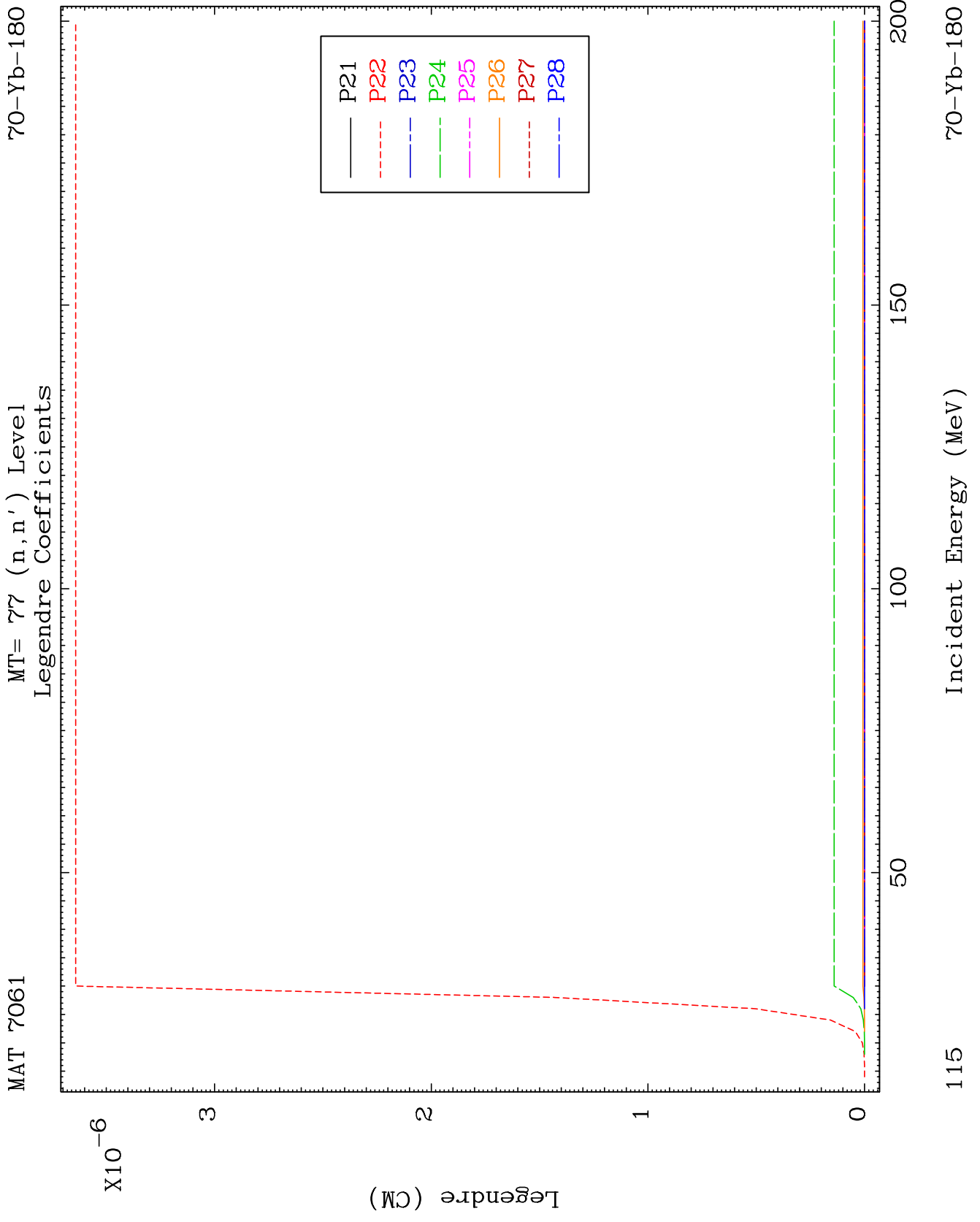
70-Yb-180

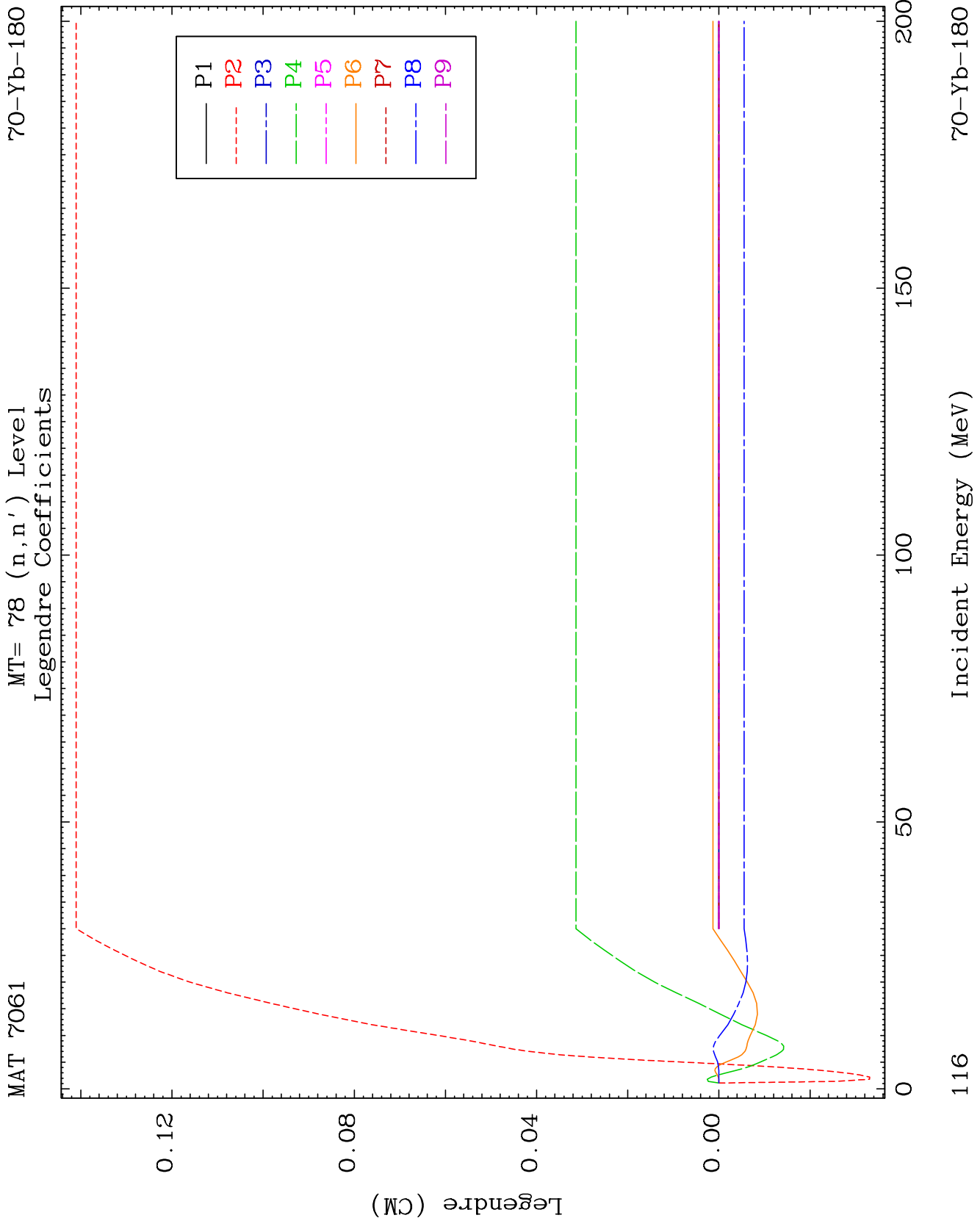


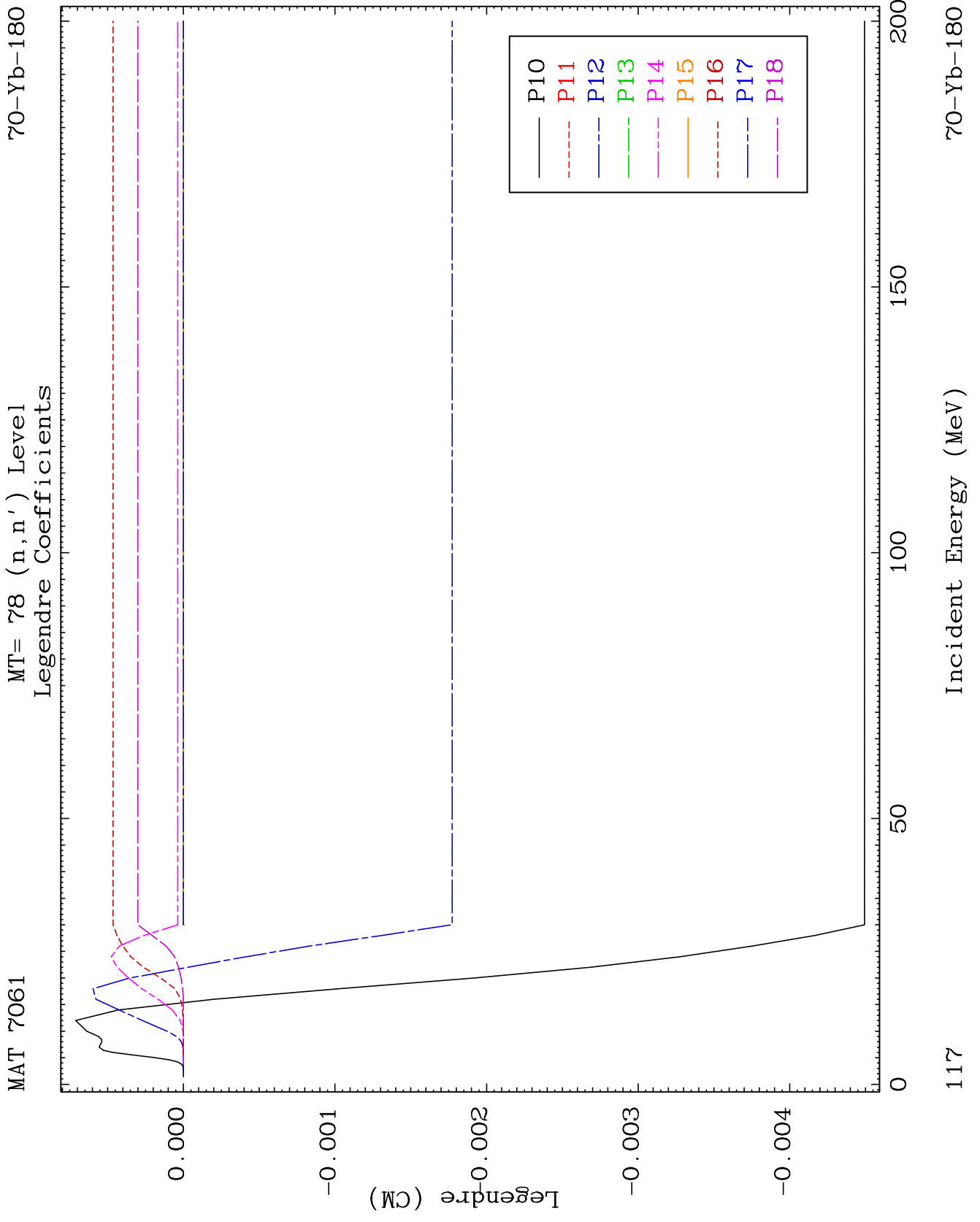
114

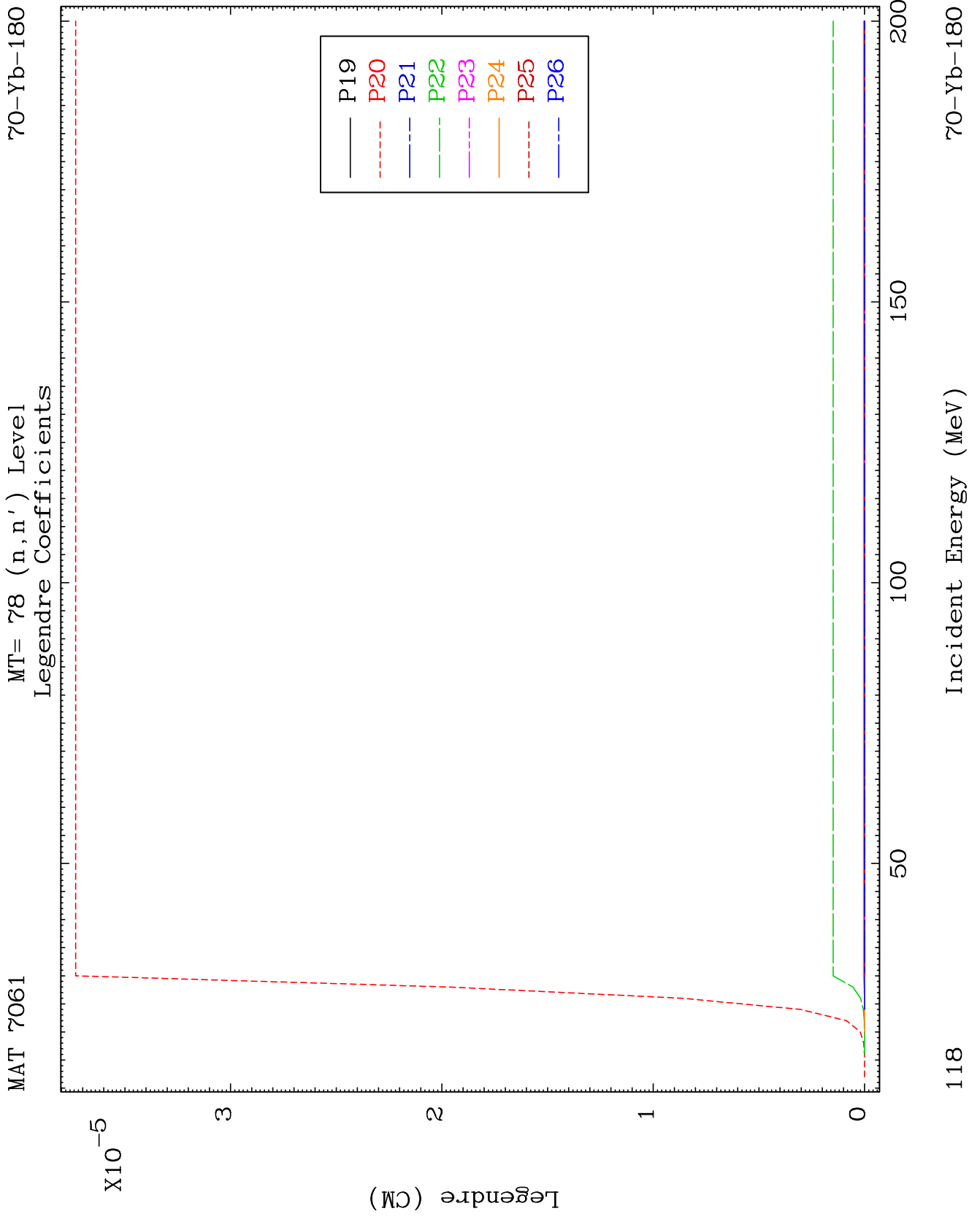
Incident Energy (MeV)

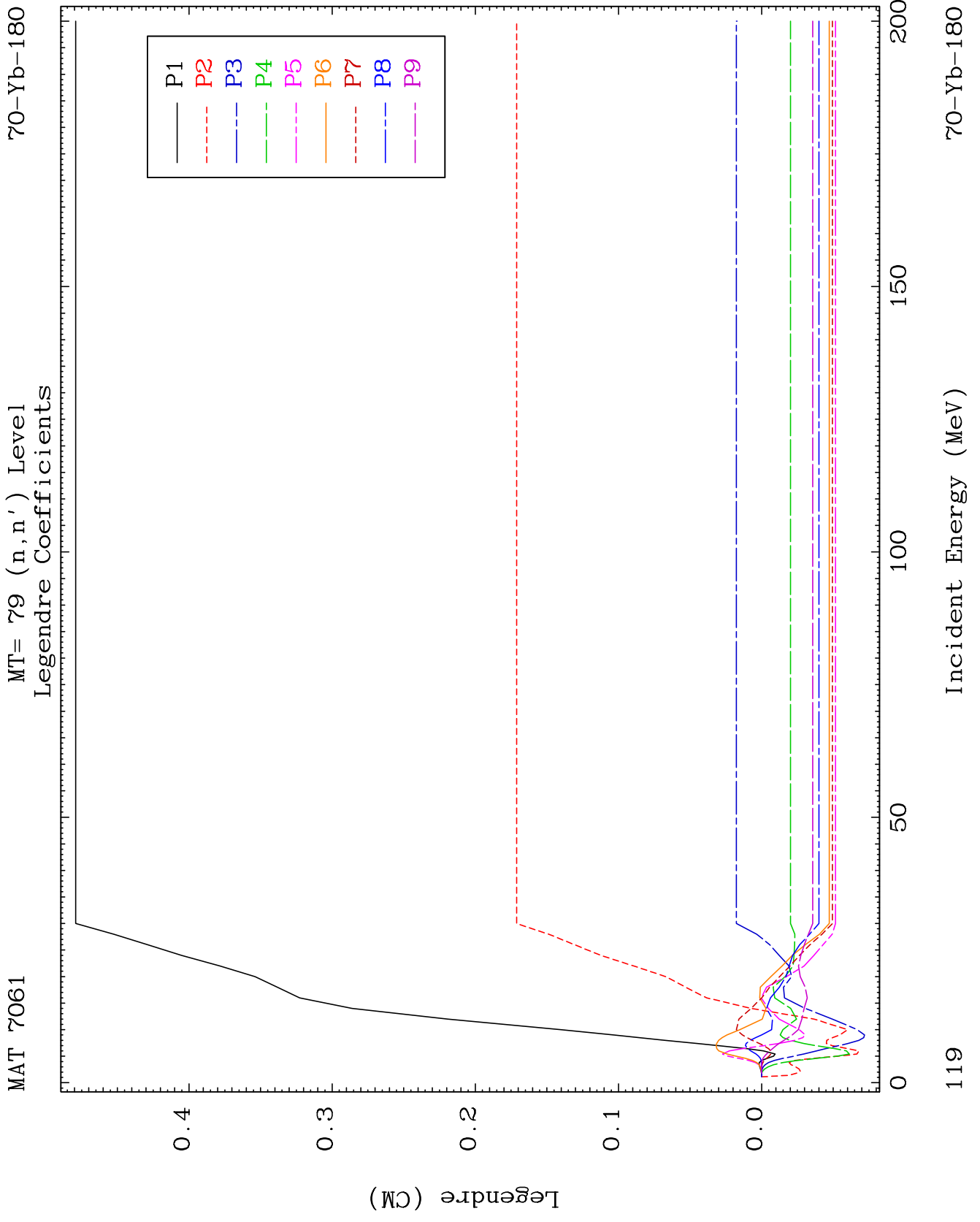
70-Yb-180

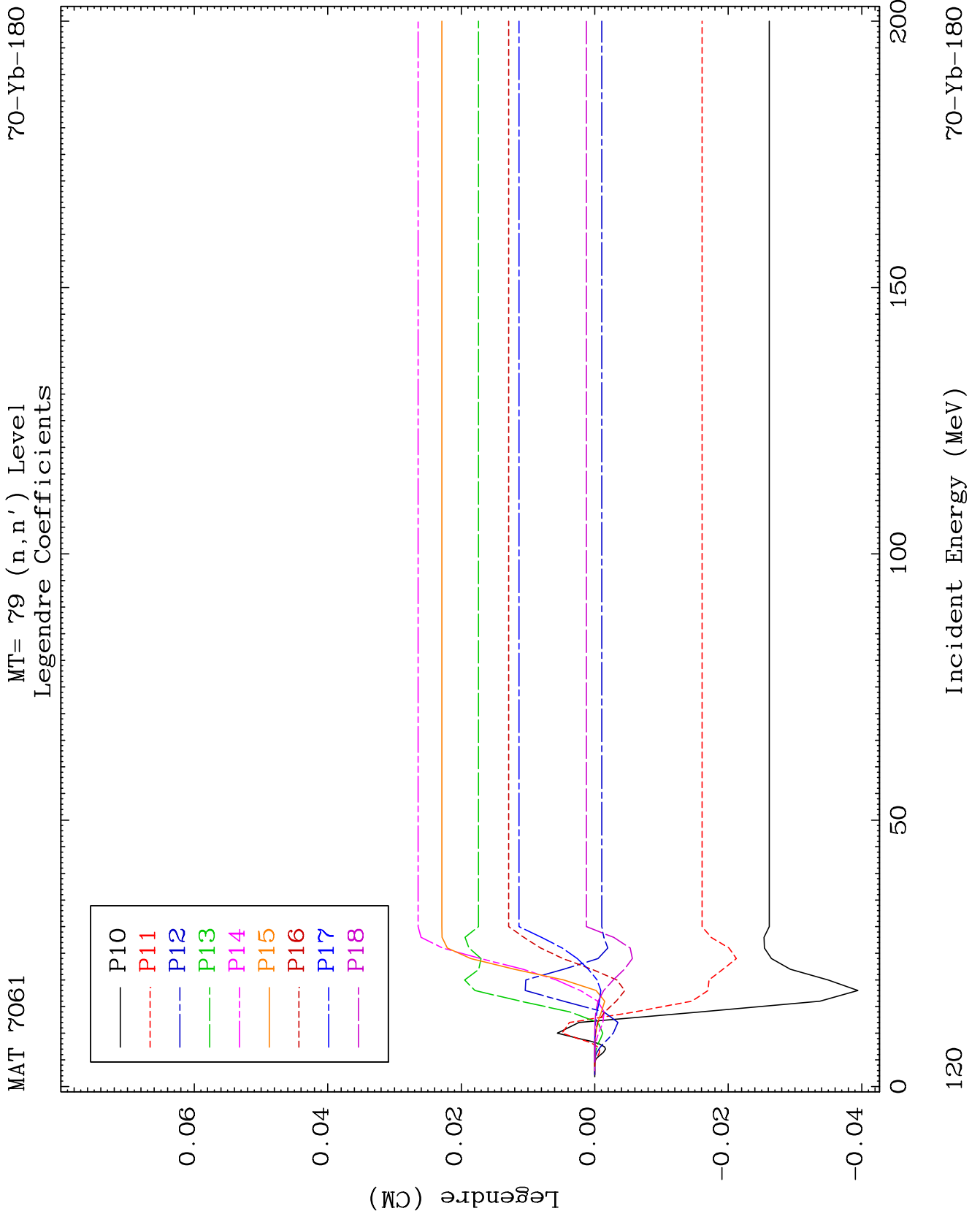


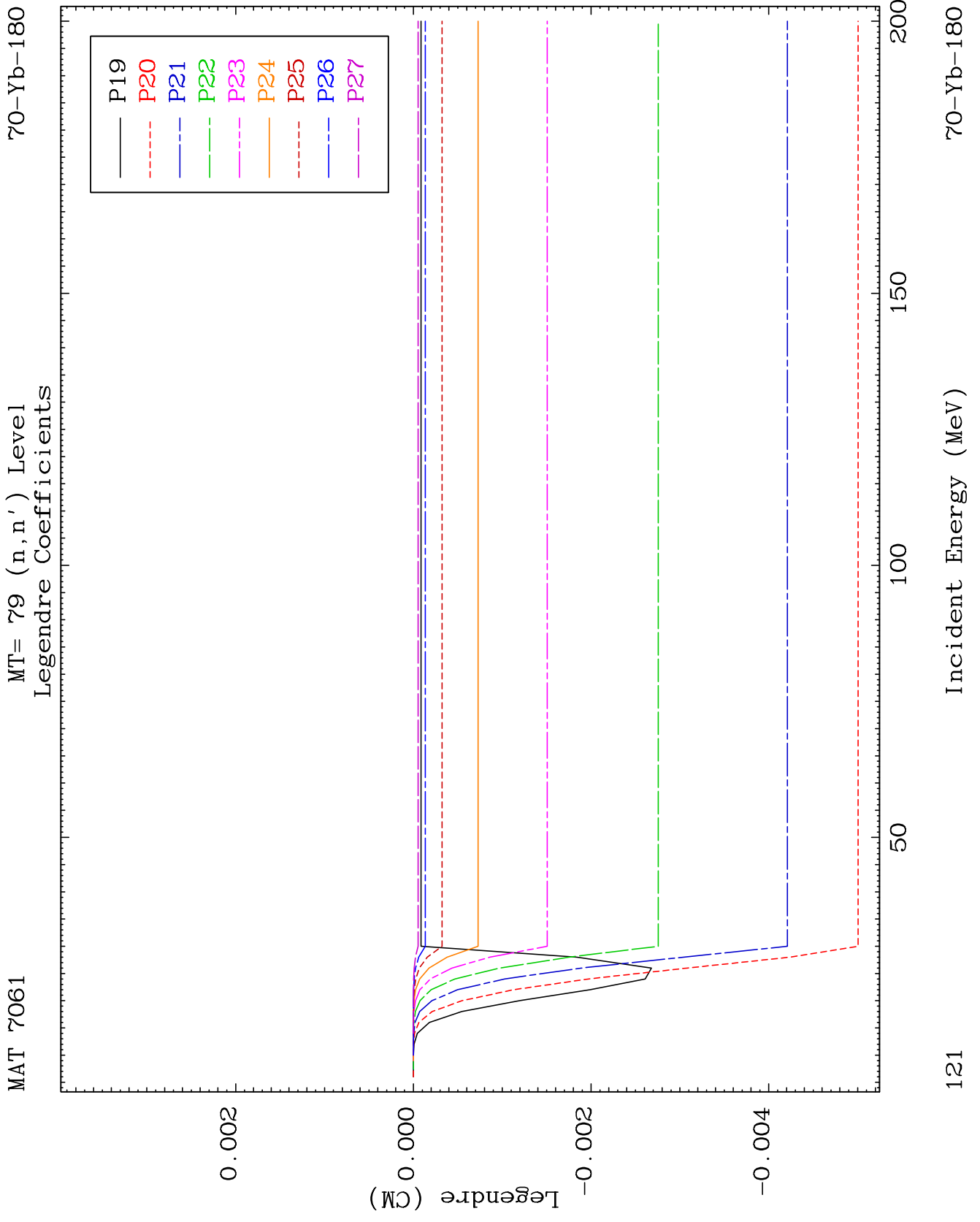


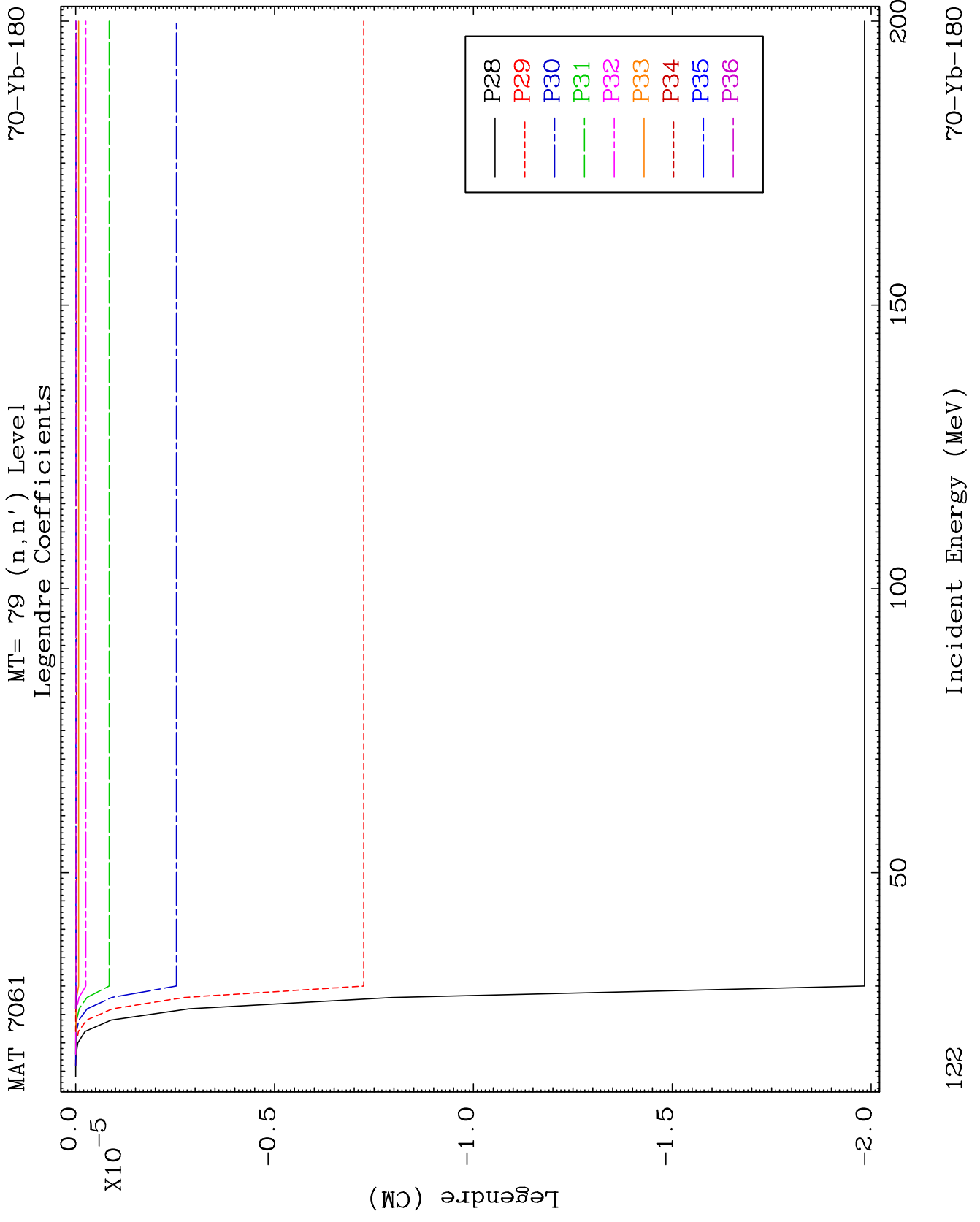


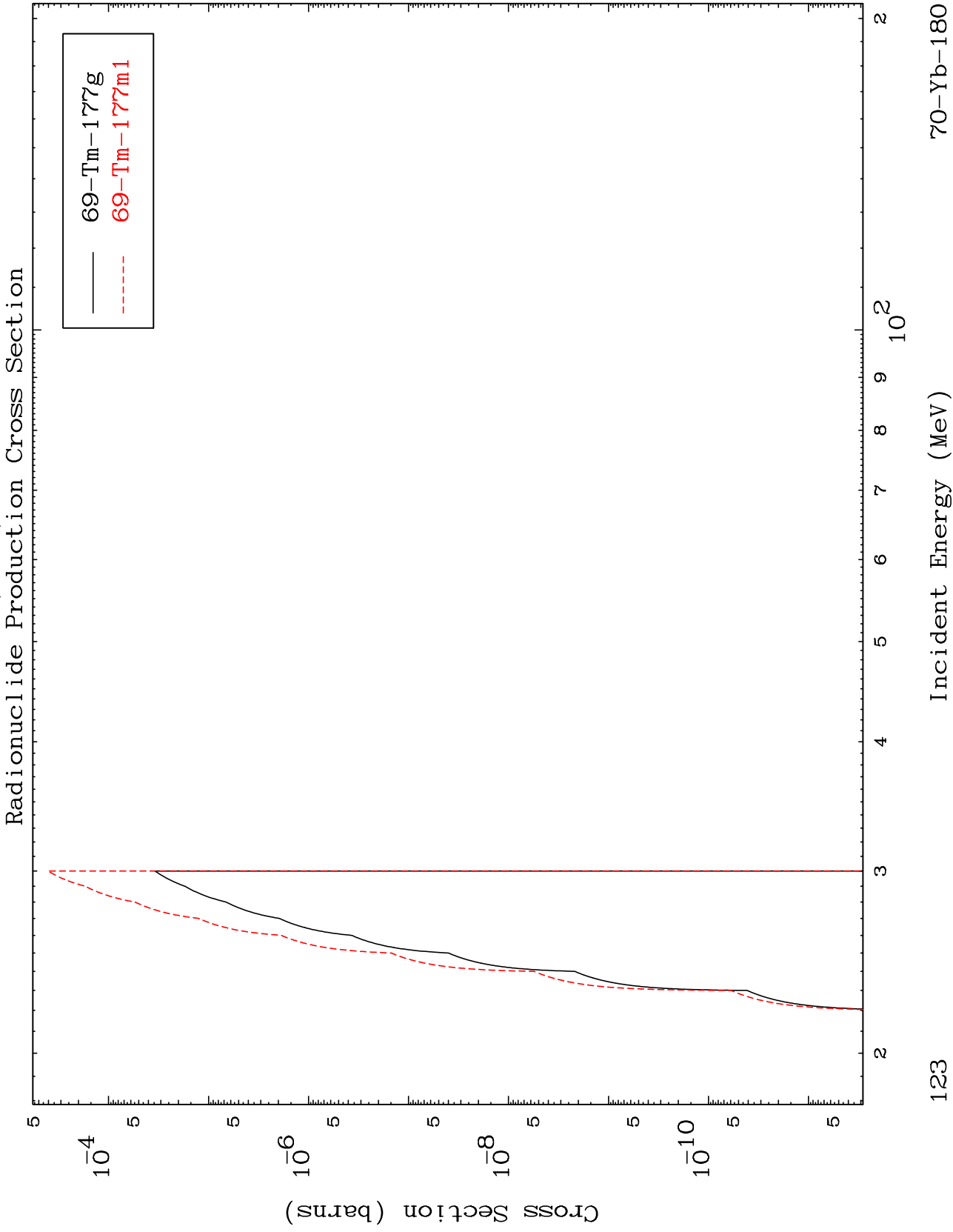










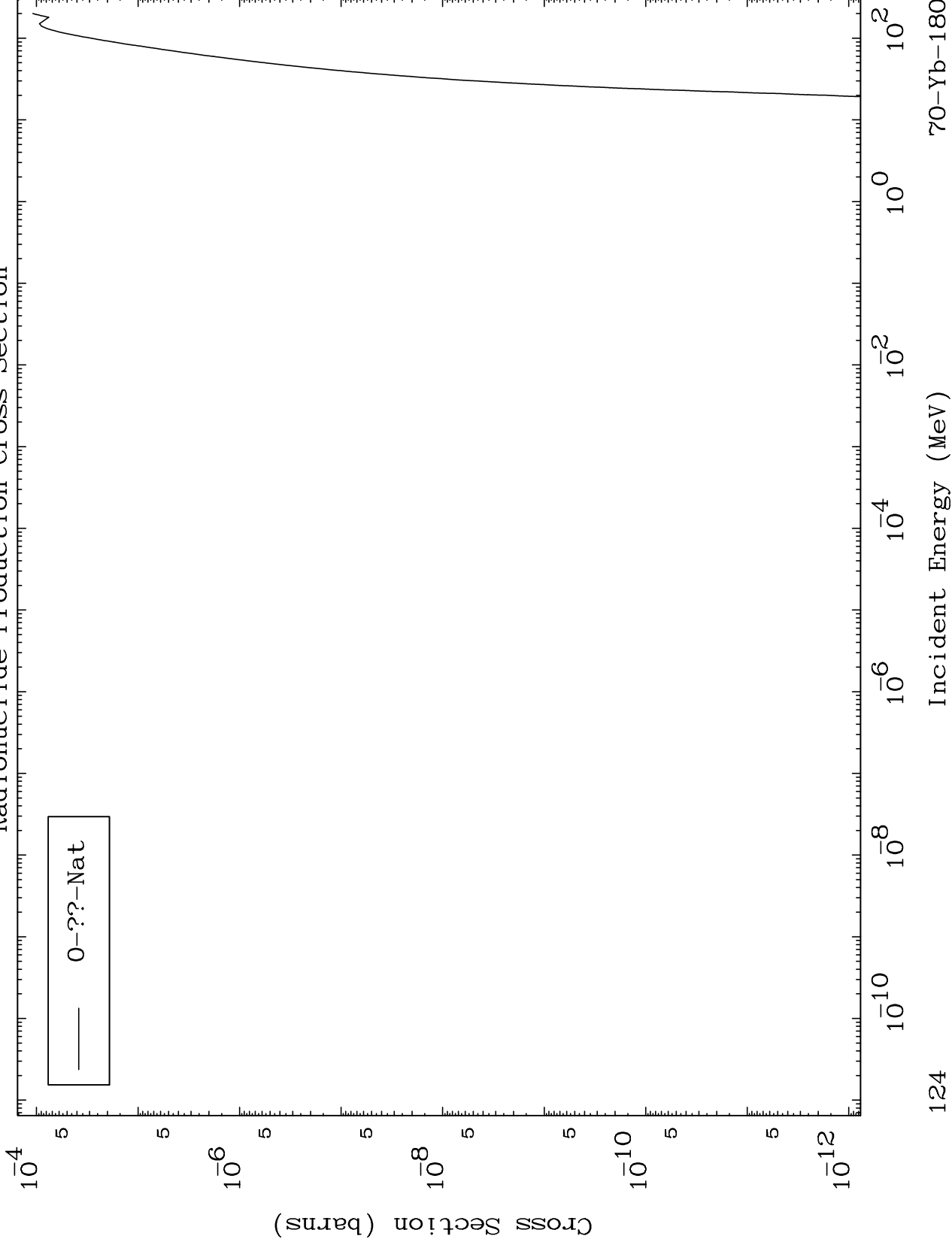


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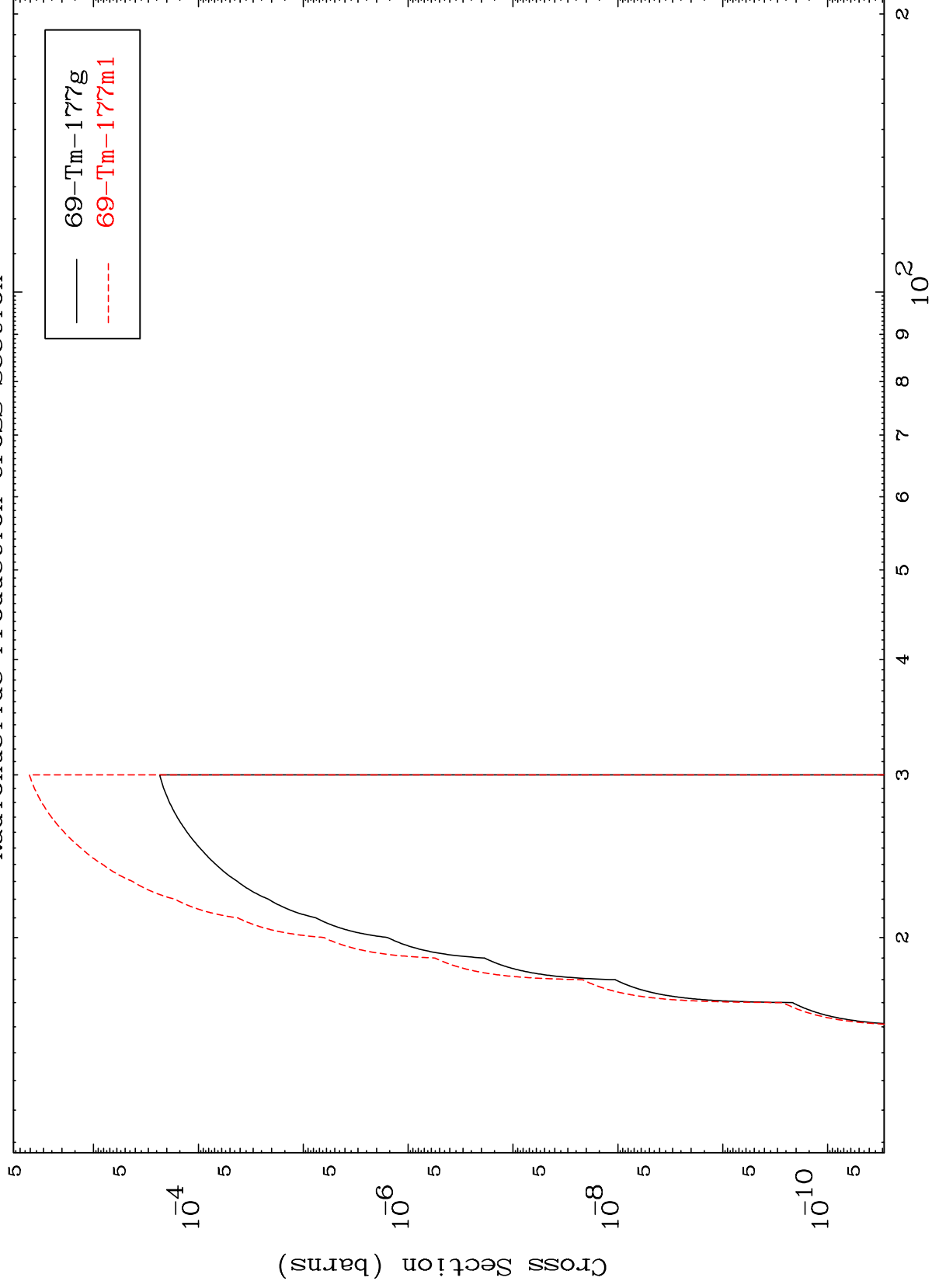
Fission

70-Yb-180

Radionuclide Production Cross Section



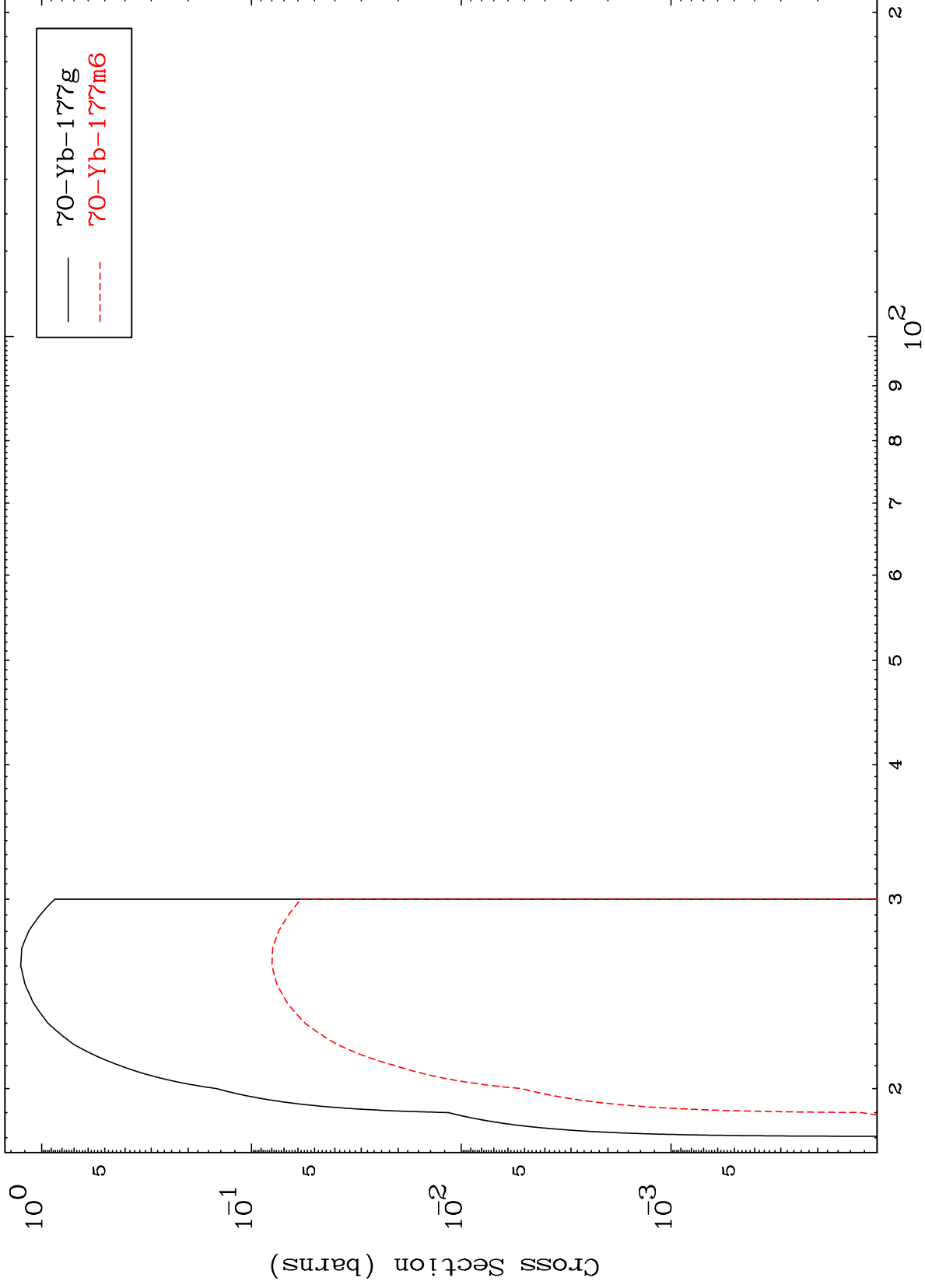
Radionuclide Production Cross Section



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(n,4n)
Radionuclide Production Cross Section



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Incident Energy (MeV)

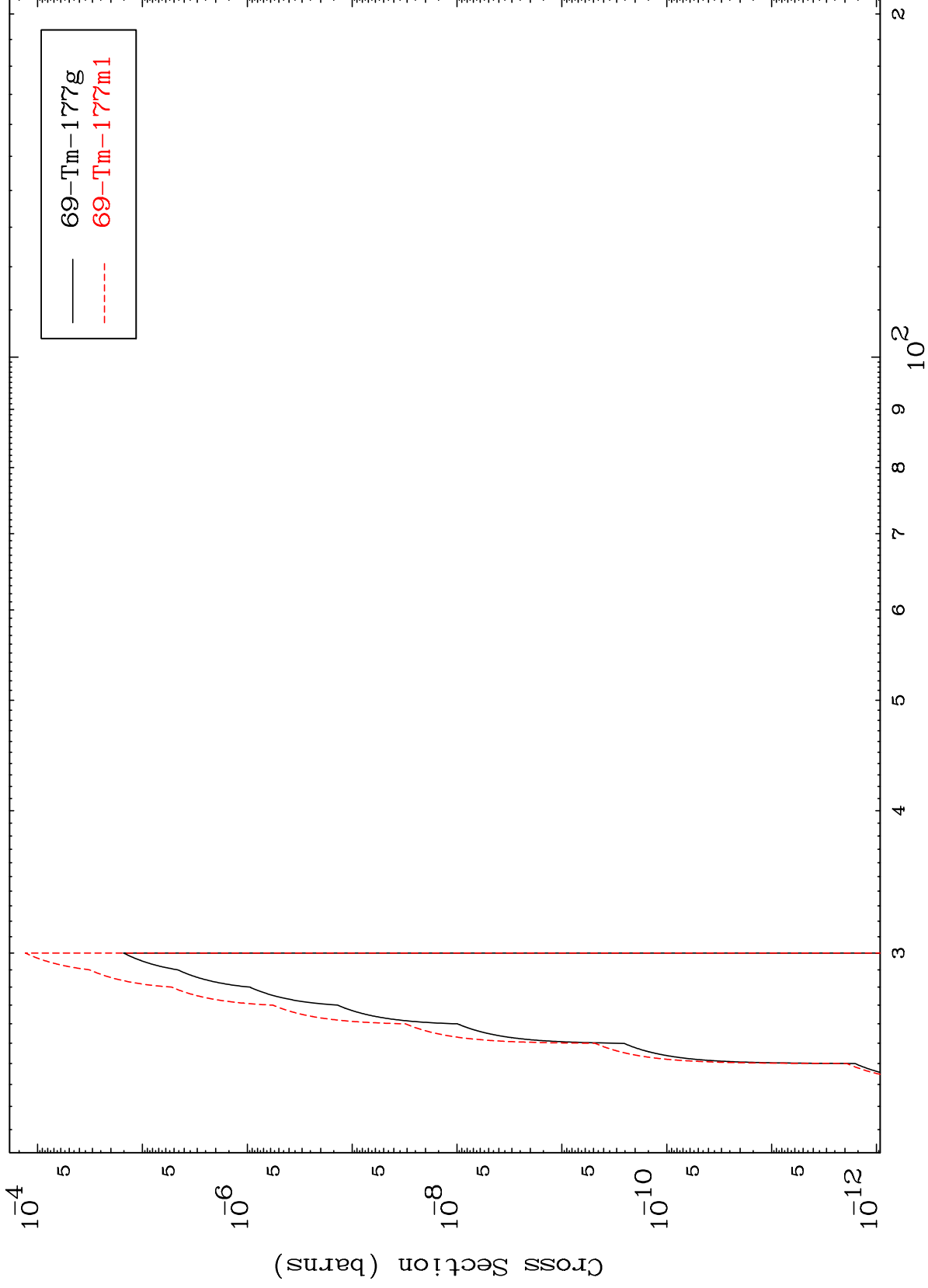
70-Yb-180

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(n,3n) p

70-Yb-180

Radionuclide Production Cross Section



127

Incident Energy (MeV)

70-Yb-180