

Program EVALPLOT  
(Version 2015-2)

by

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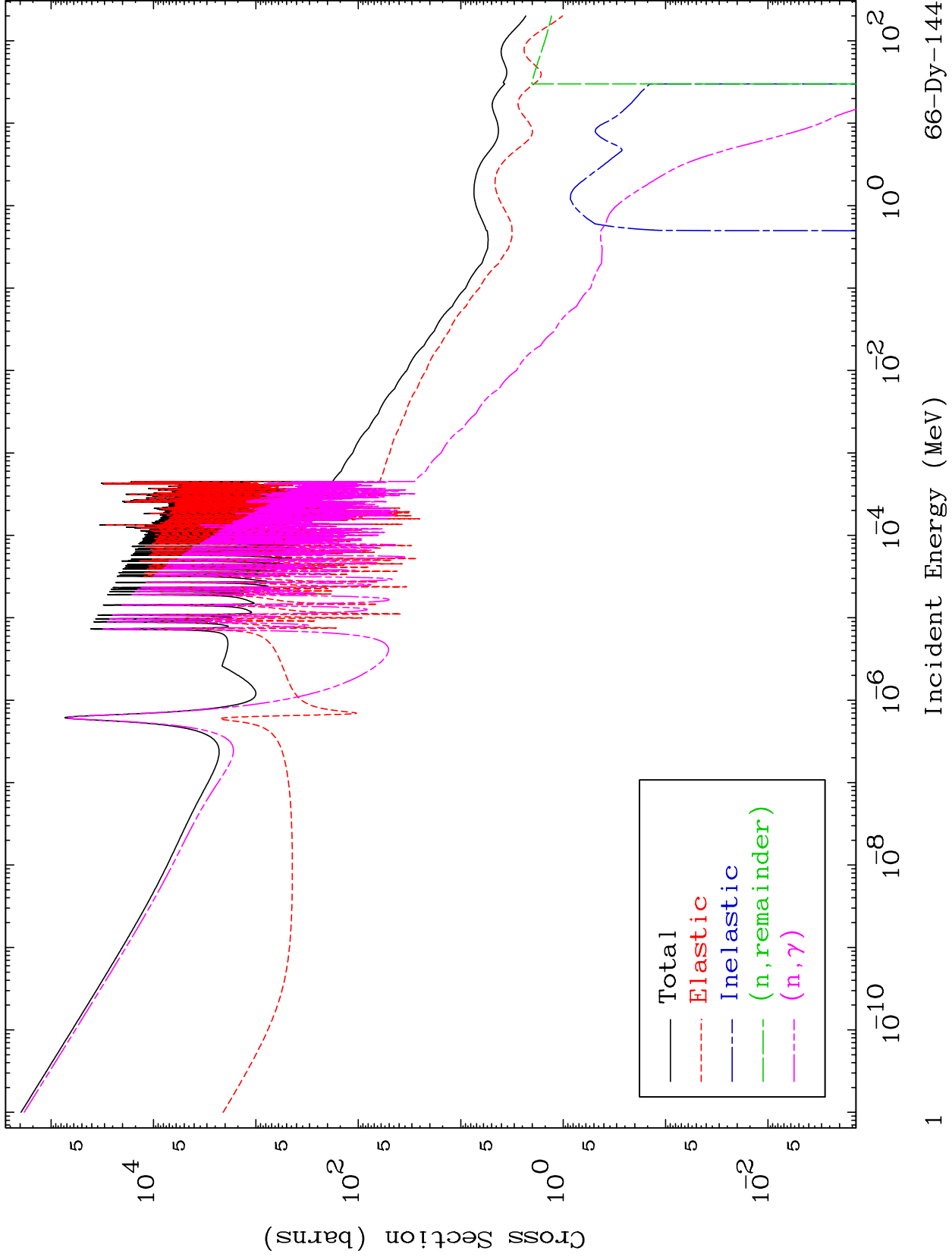
E.Mail:redcullen1@comcast.net  
Web:home.comcast.net/~redcullen1

Press Mouse Button to Start

MAT 6589

Major  
293 Kelvin Cross Sections

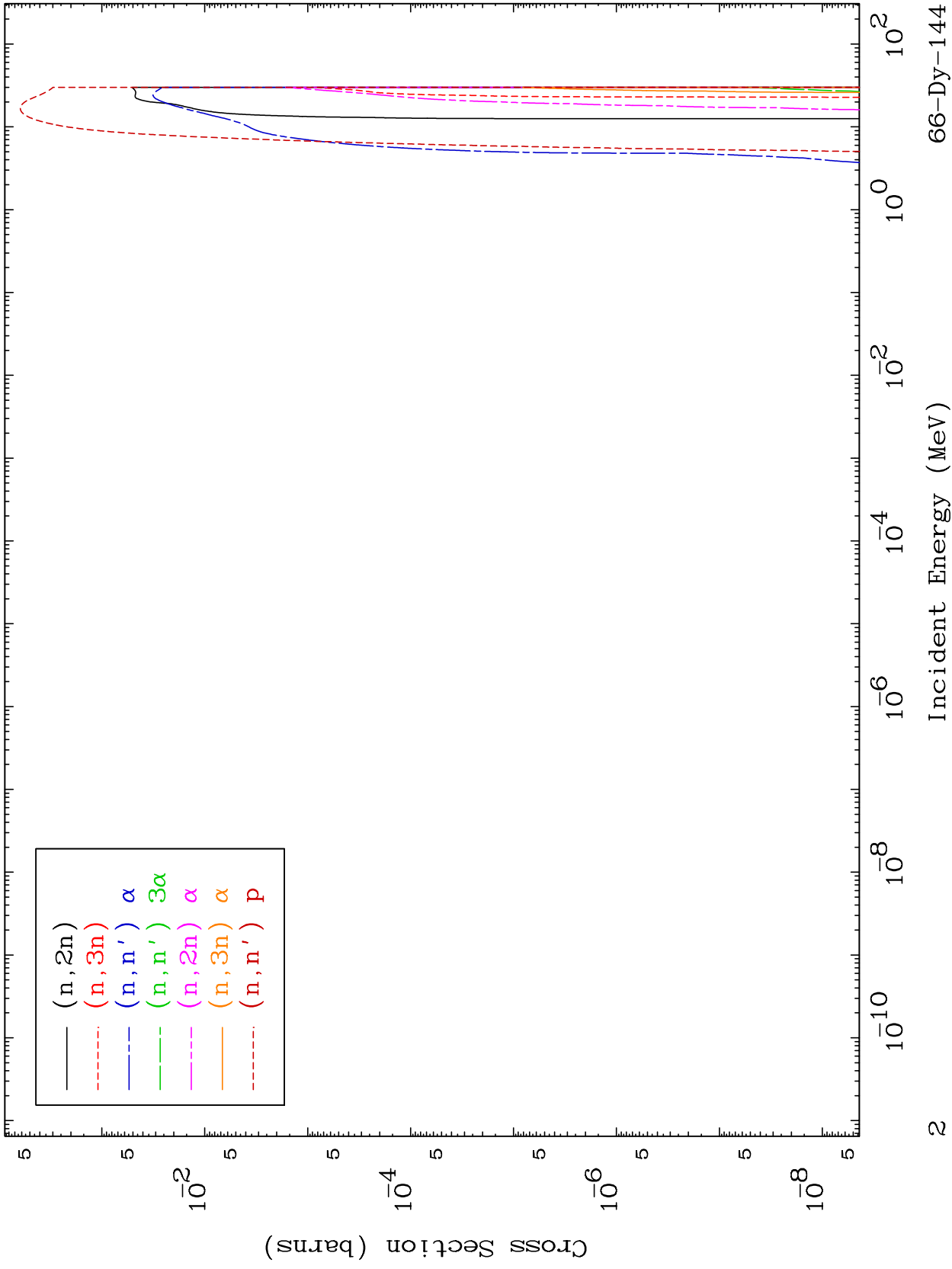
66-Dy-144



MAT 6589

Neutron Production  
293 Kelvin Cross Sections

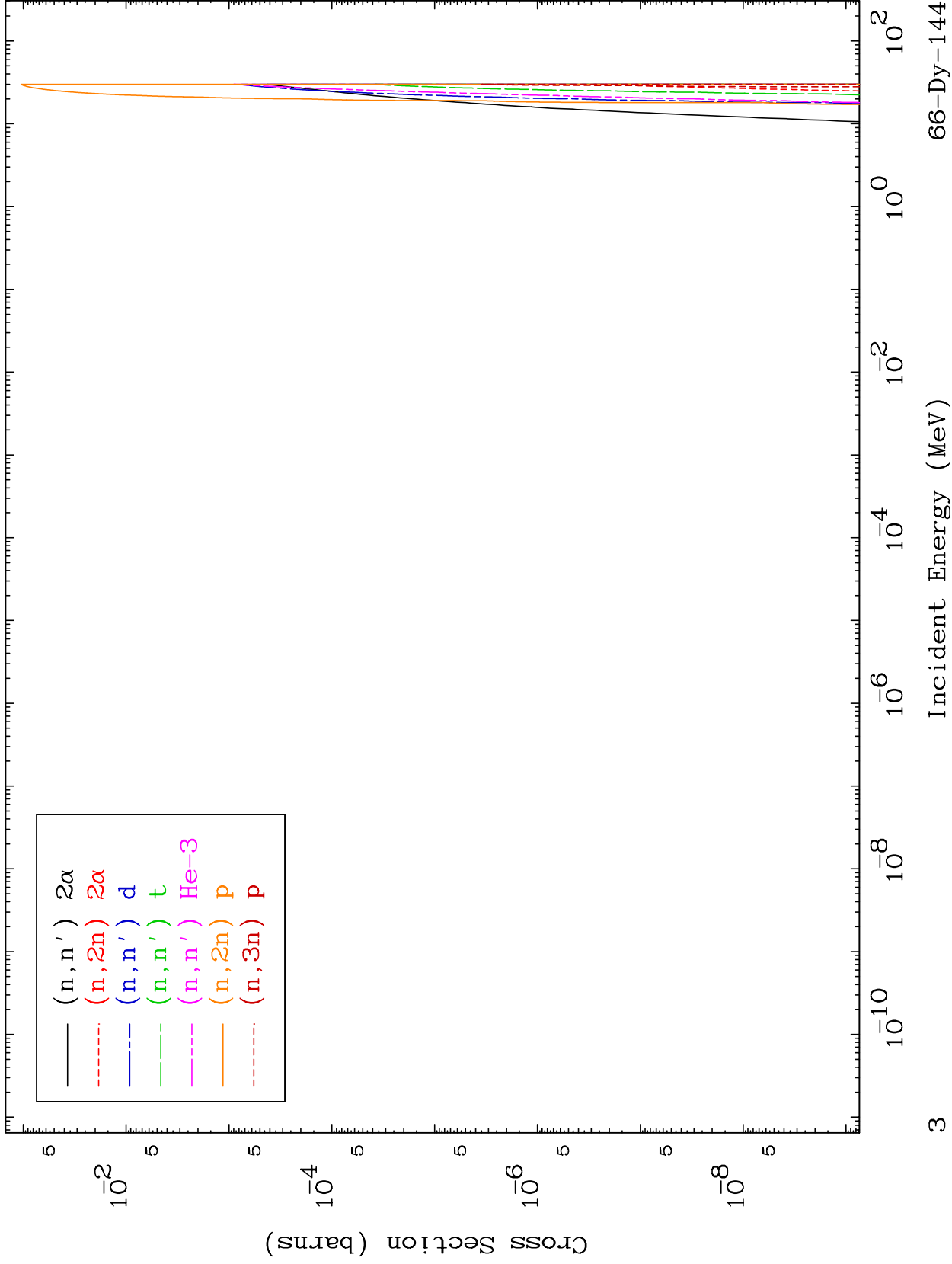
66-Dy-144



MAT 6589

Neutron Production  
293 Kelvin Cross Sections

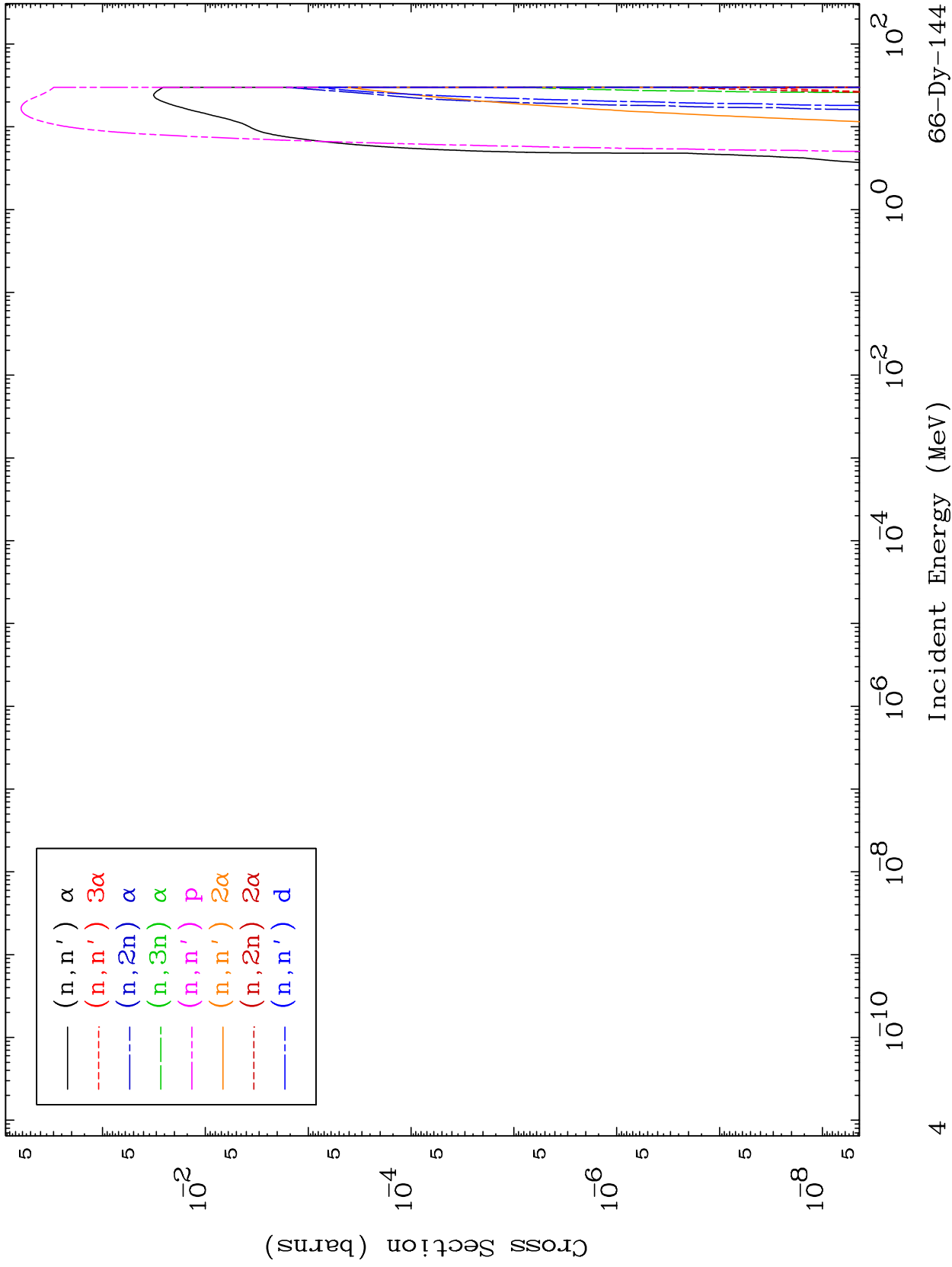
66-Dy-144

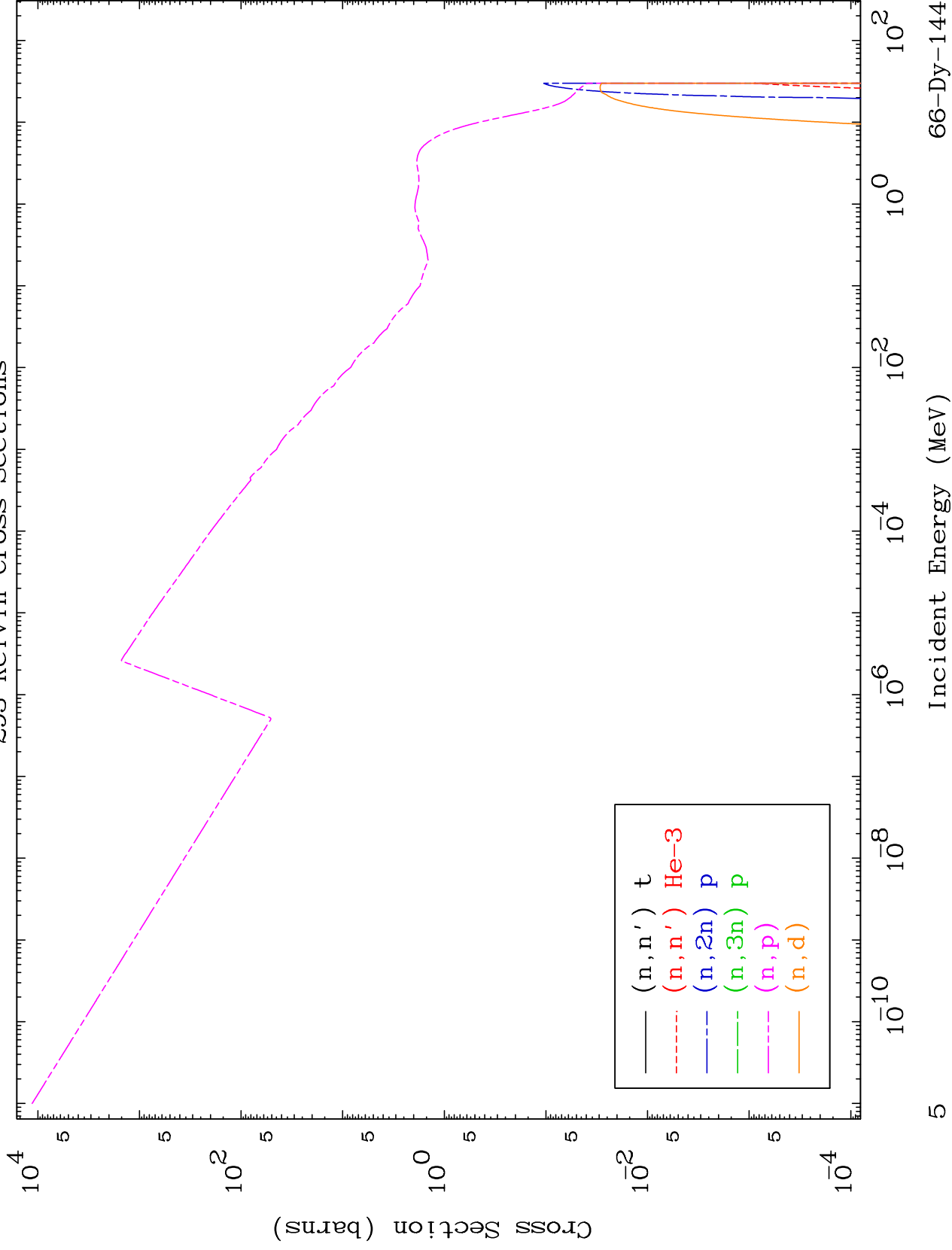


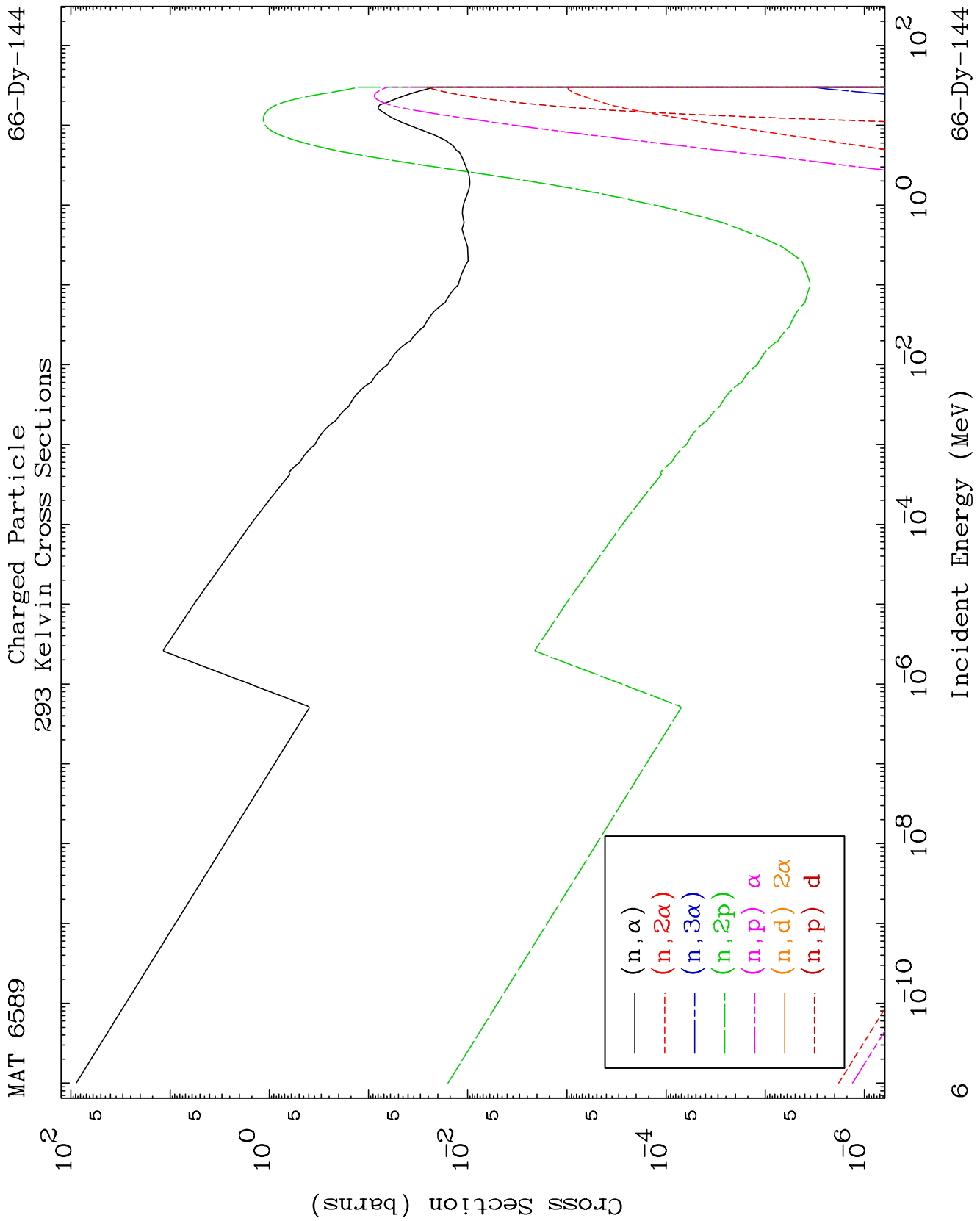
MAT 6589

Charged Particle  
293 Kelvin Cross Sections

66-Dy-144







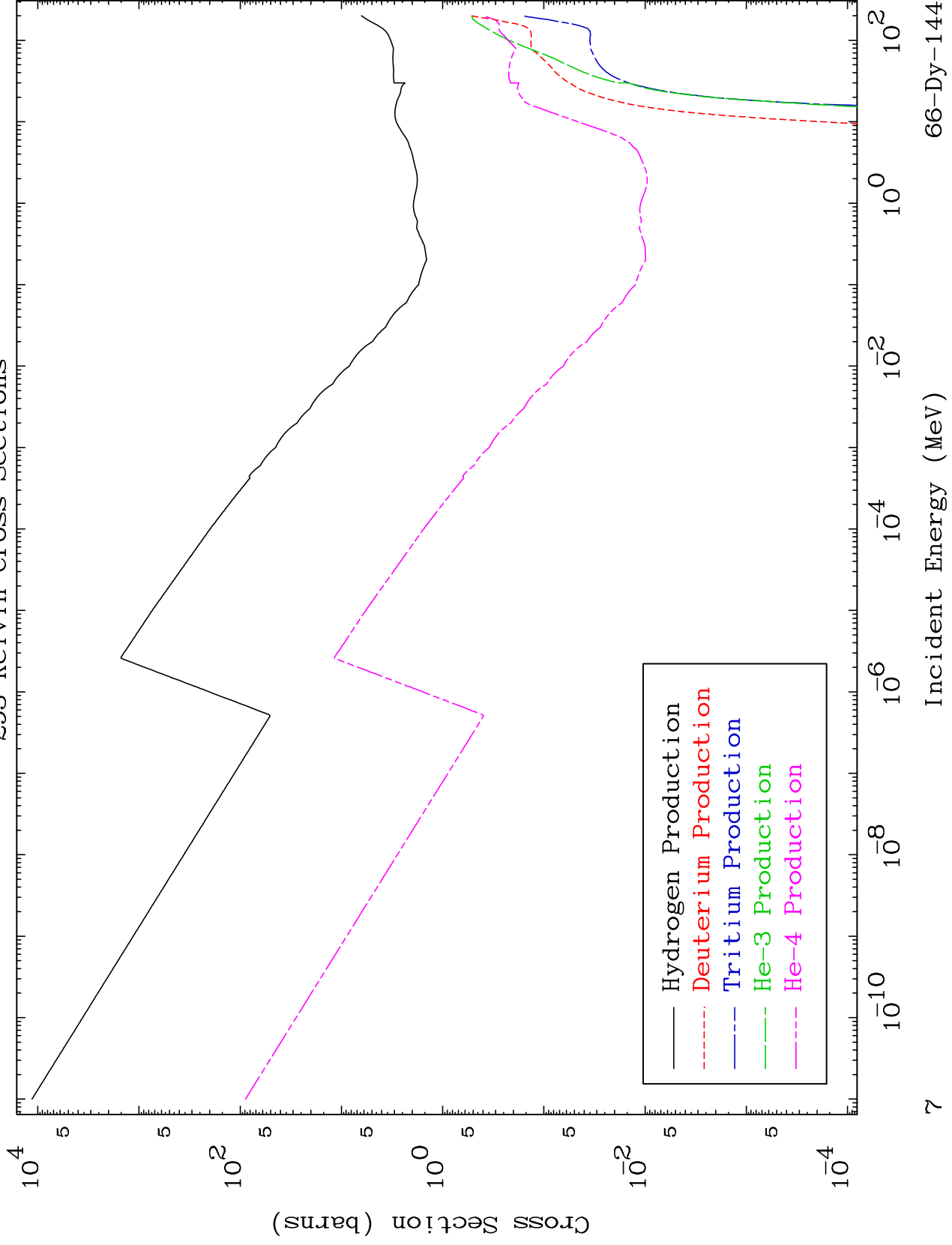
MAT 6589

66-Dy-144

MAT 6589

Particle Production  
293 Kelvin Cross Sections

66-Dy-144

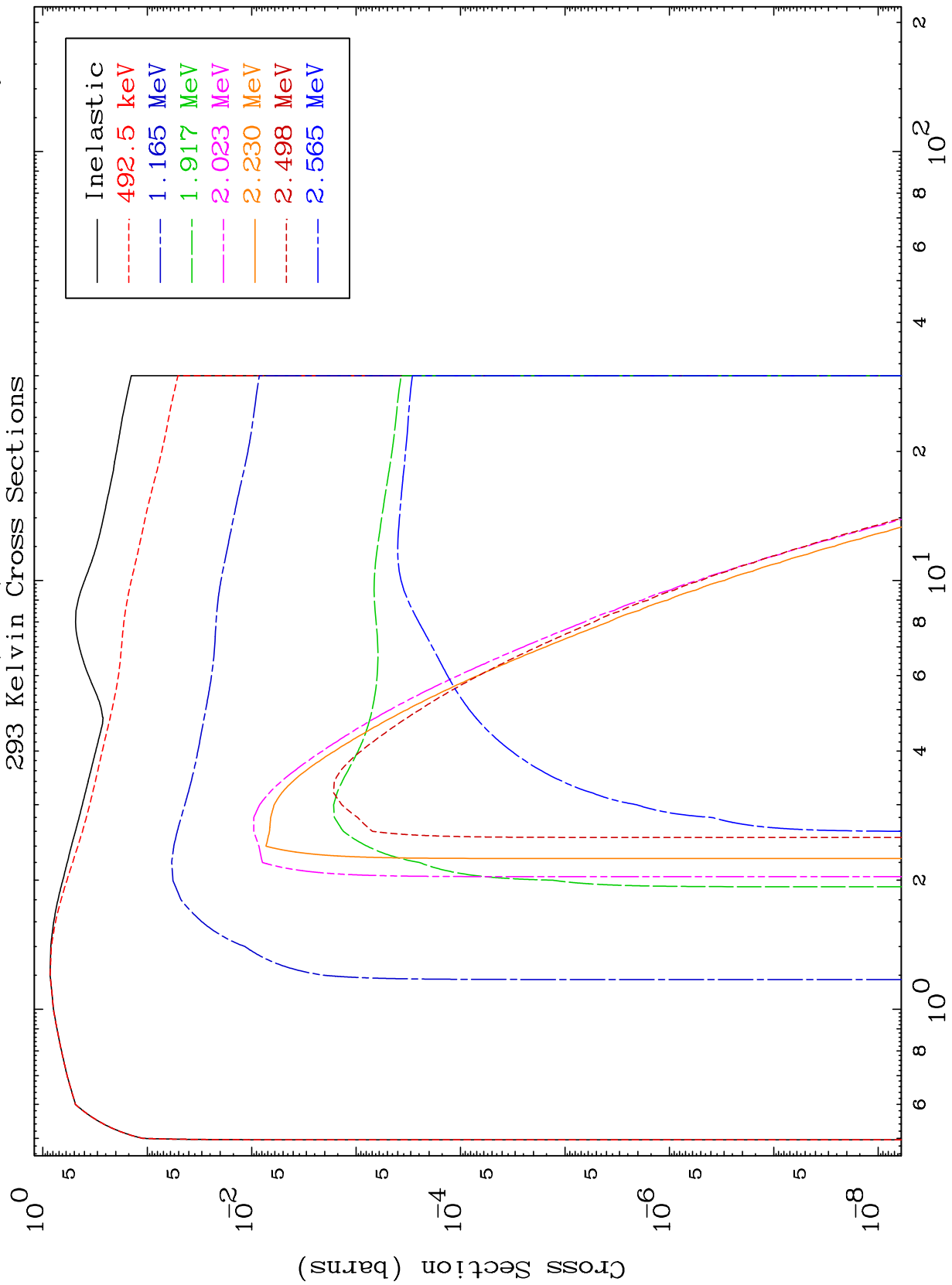




MAT 6589

(n,n') Level  
293 Kelvin Cross Sections

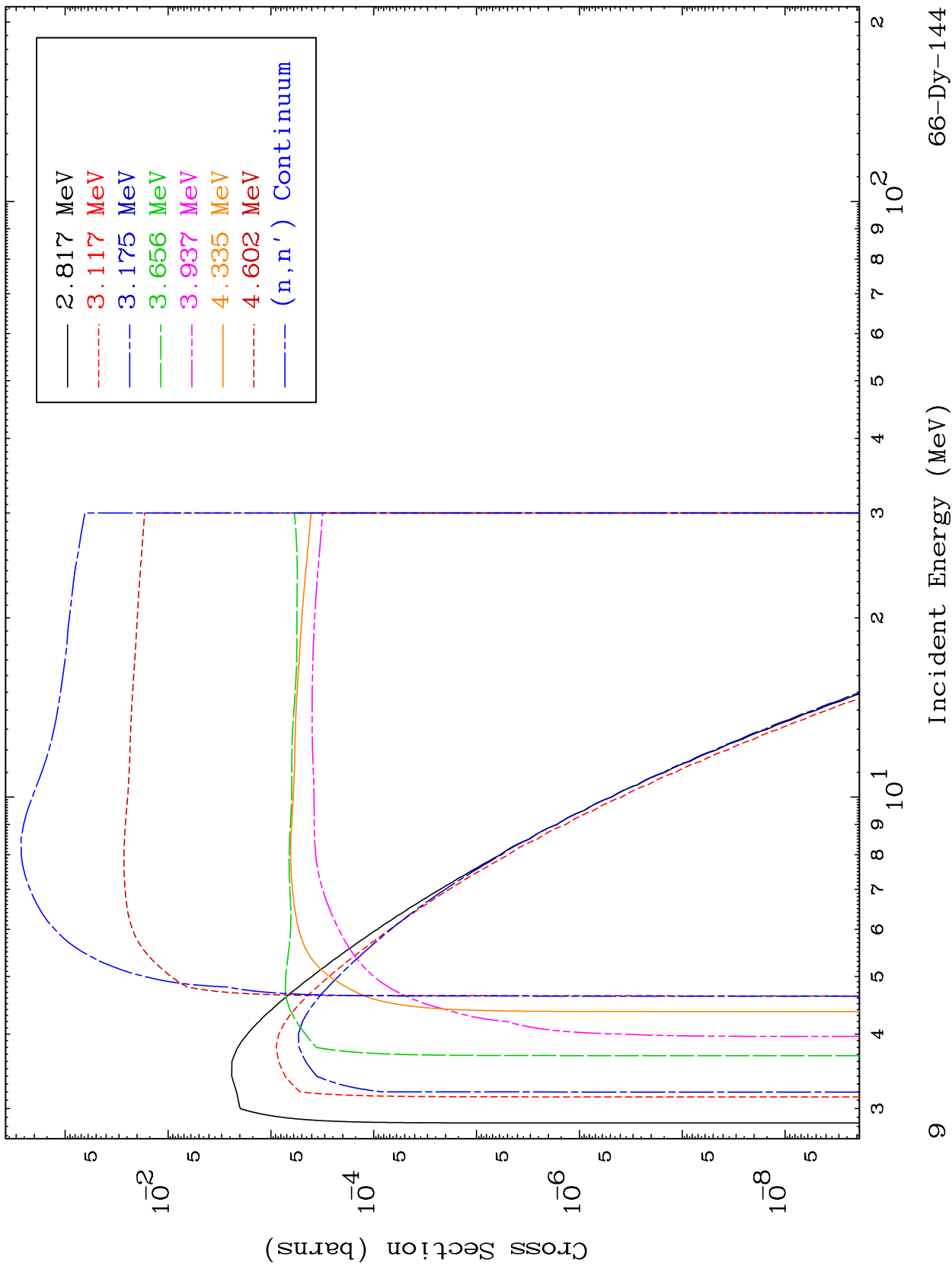
66-Dy-144



8

Incident Energy (MeV)

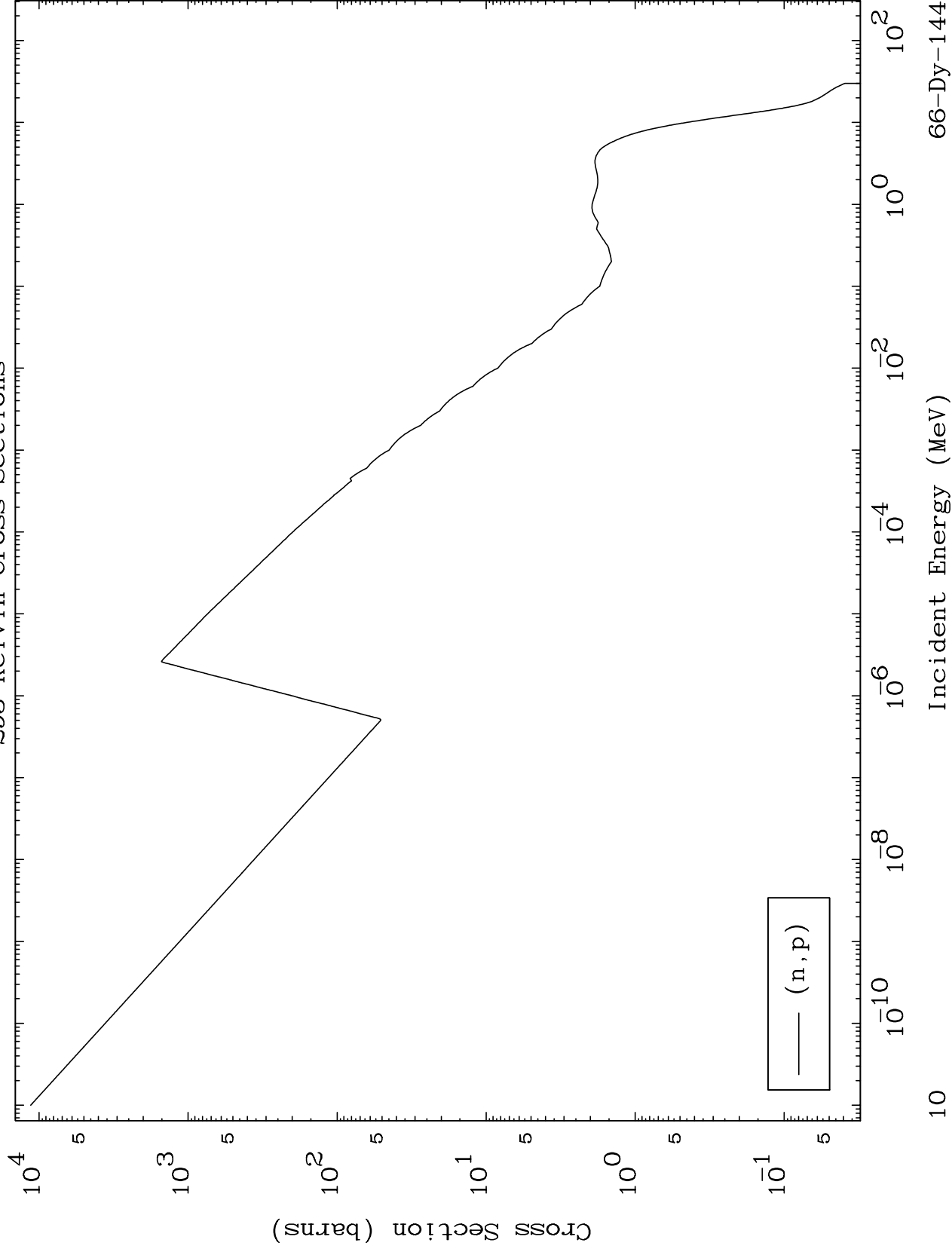
66-Dy-144



MAT 6589

(n,p) Levels  
293 Kelvin Cross Sections

66-Dy-144



66-Dy-144

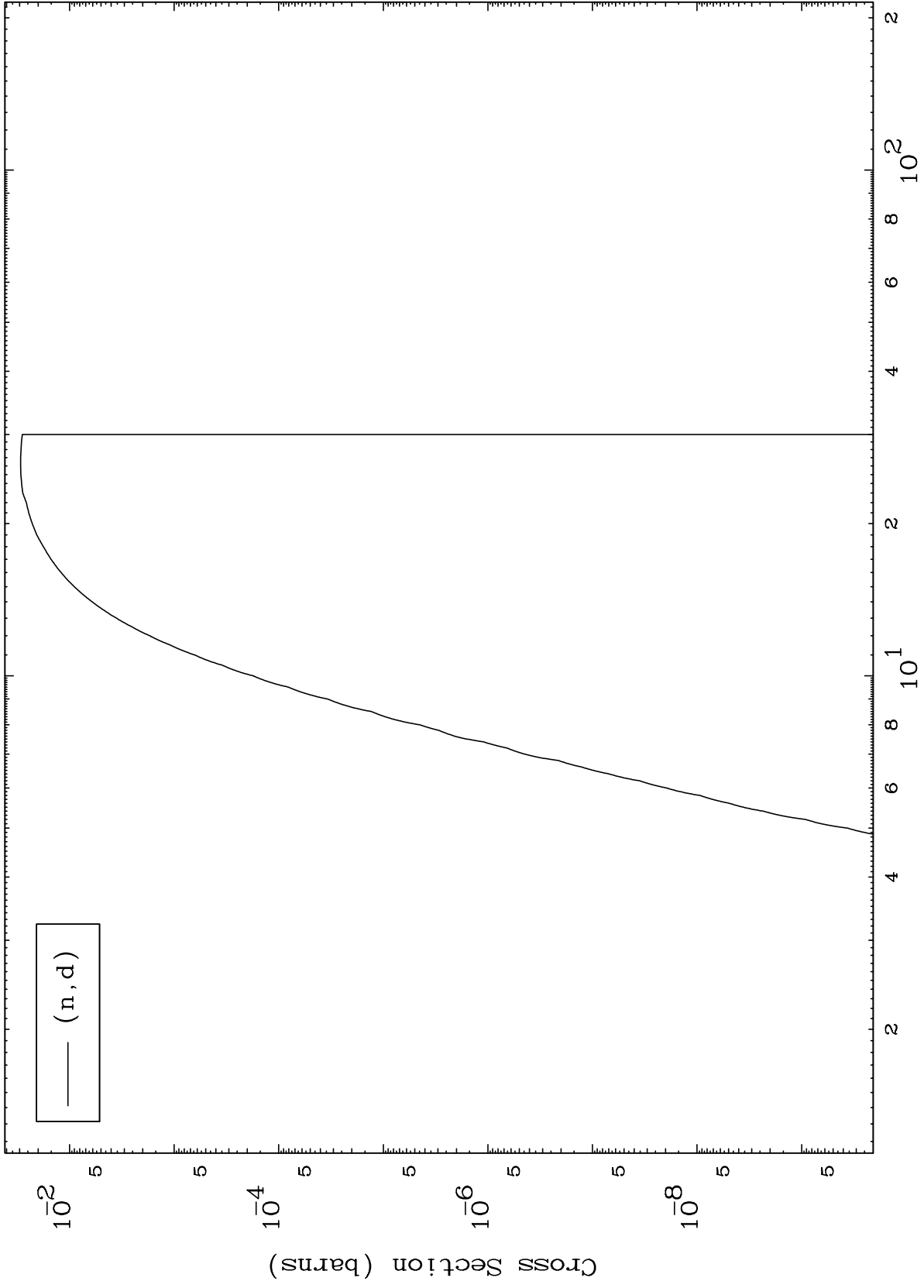
Incident Energy (MeV)

10

MAT 6589

(n,d) Levels  
293 Kelvin Cross Sections

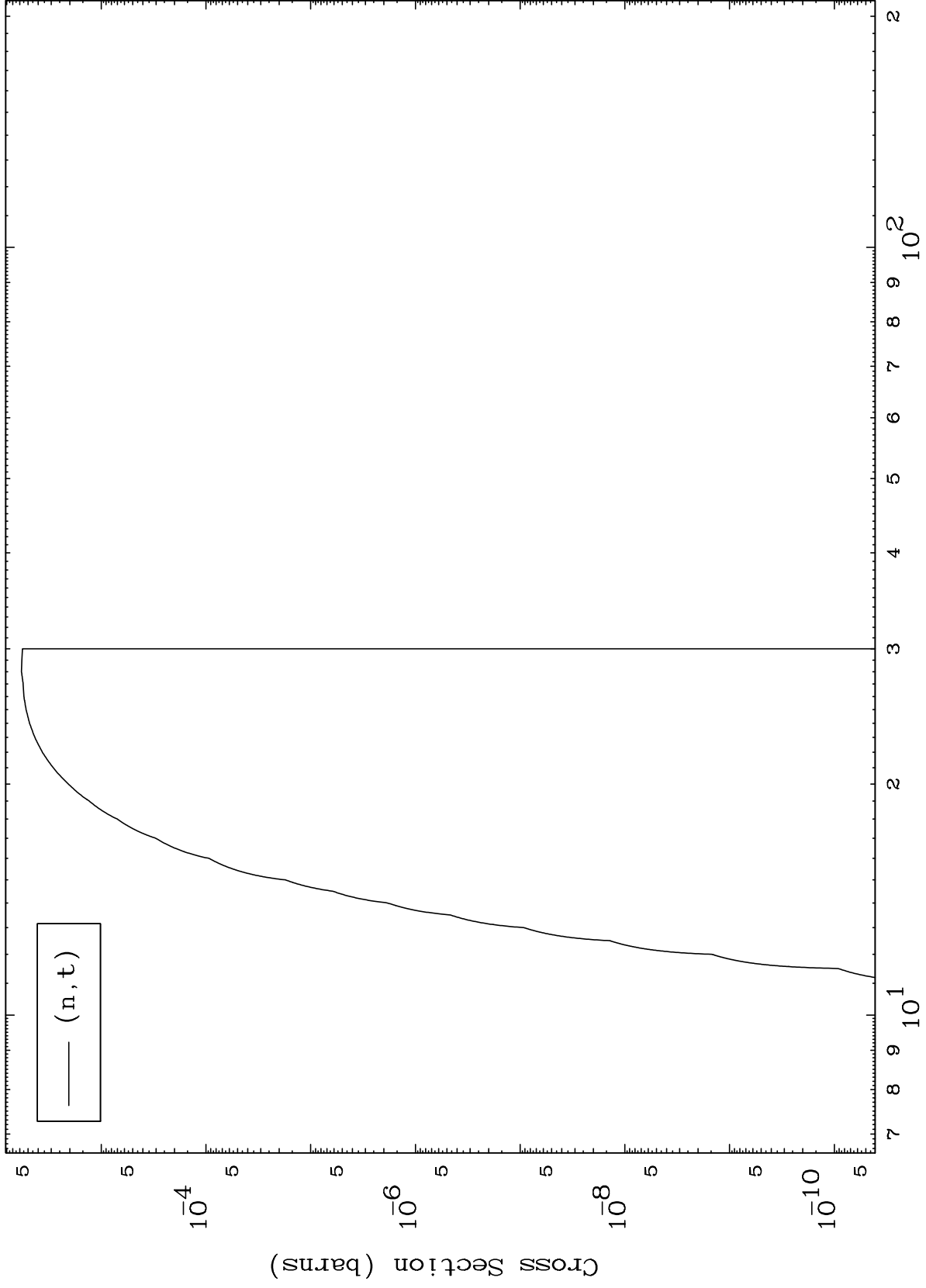
66-Dy-144



MAT 6589

(n,t) Levels  
293 Kelvin Cross Sections

66-Dy-144



12

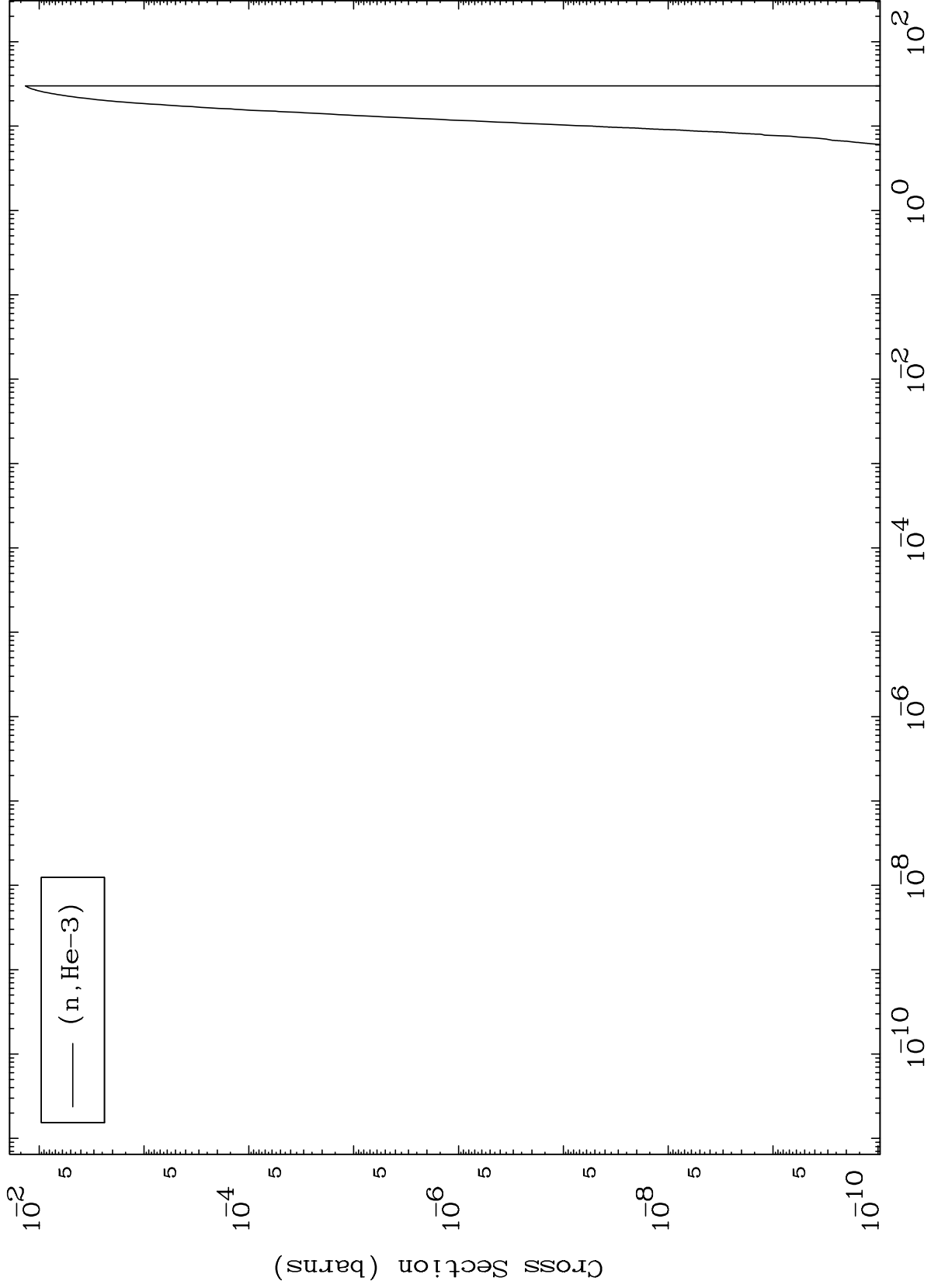
Incident Energy (MeV)

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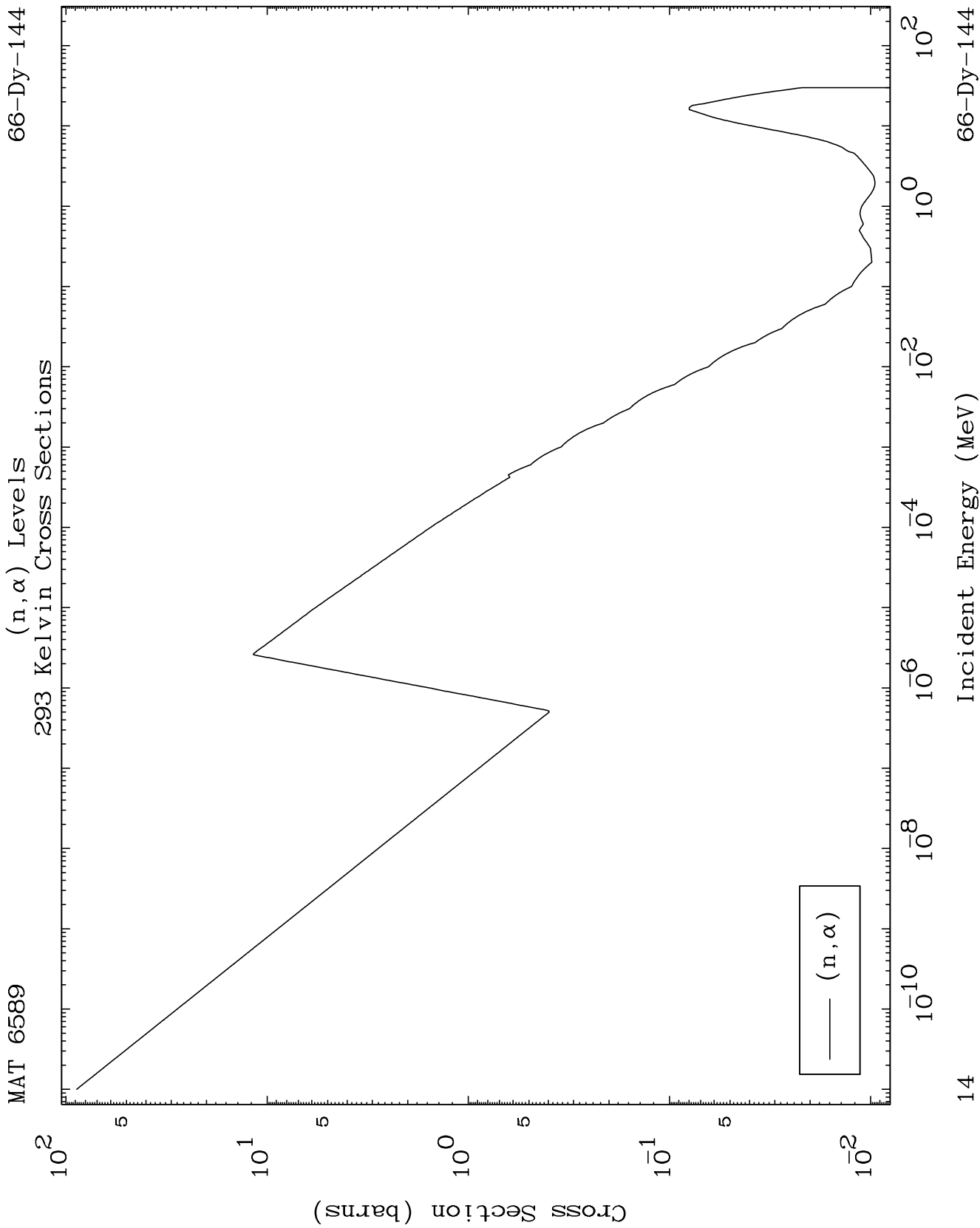
MAT 6589

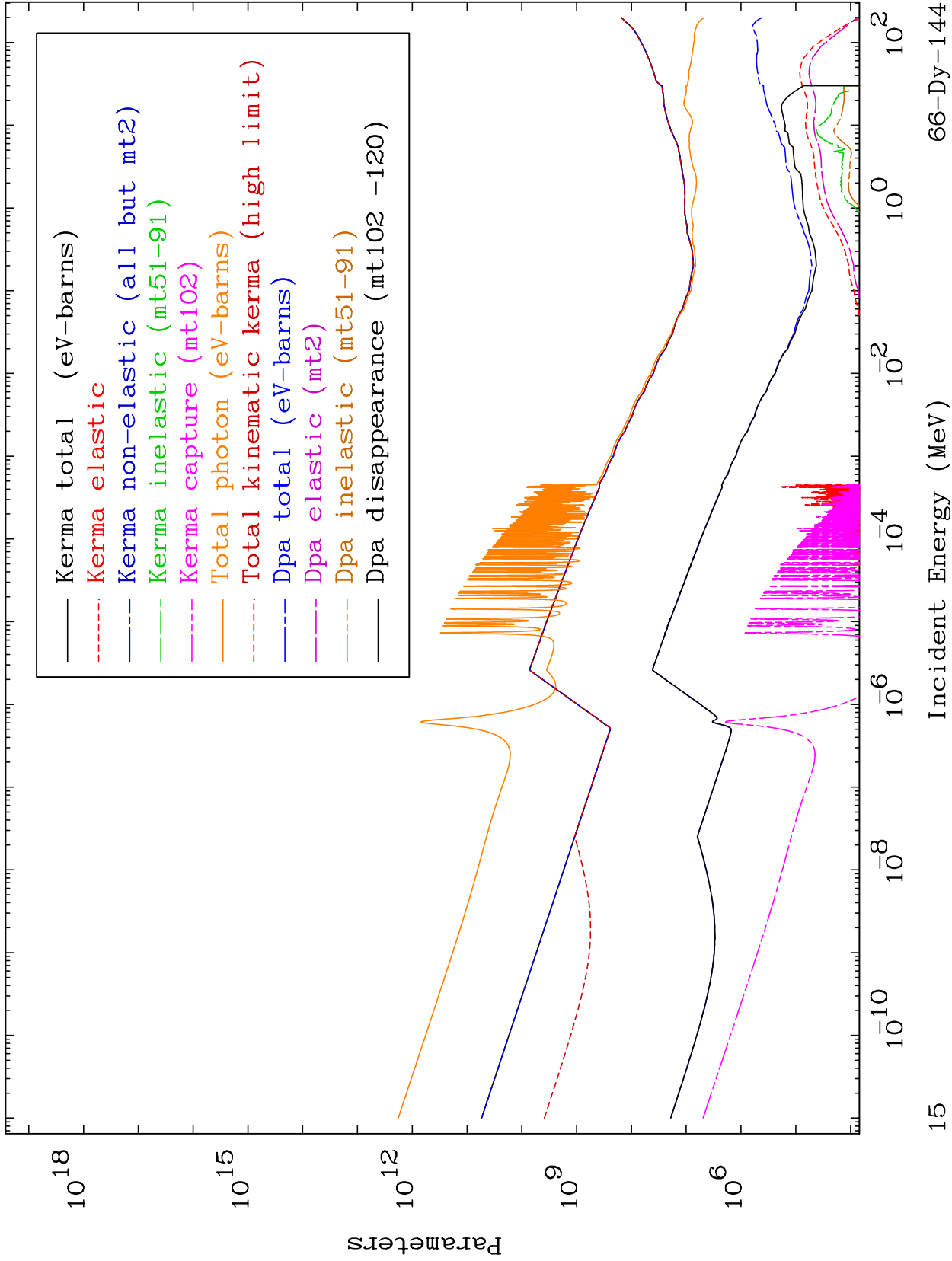
(n,He3) Levels  
293 Kelvin Cross Sections

66-Dy-144



(n, He-3)



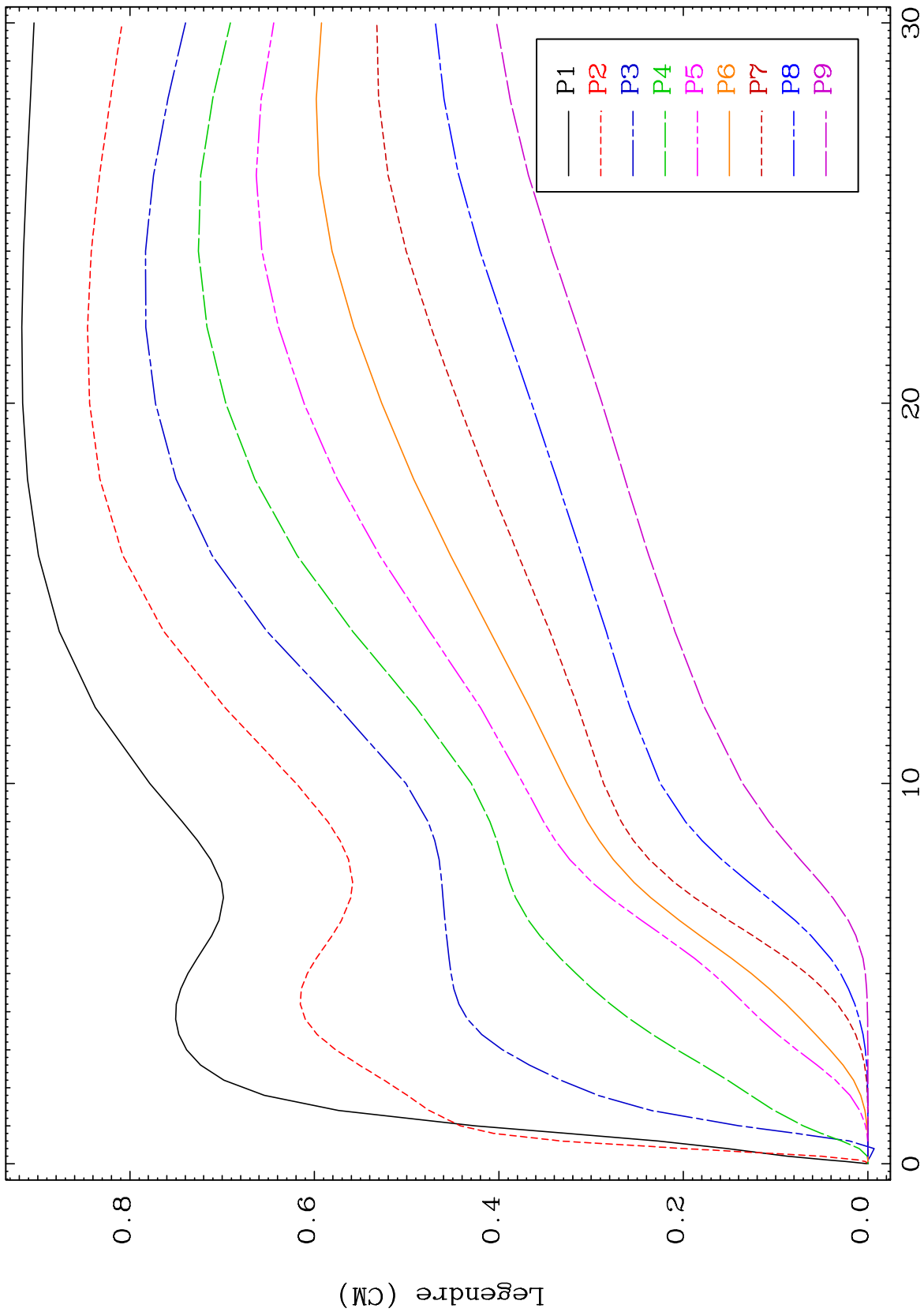




MAT 6589

Elastic Legendre Coefficients

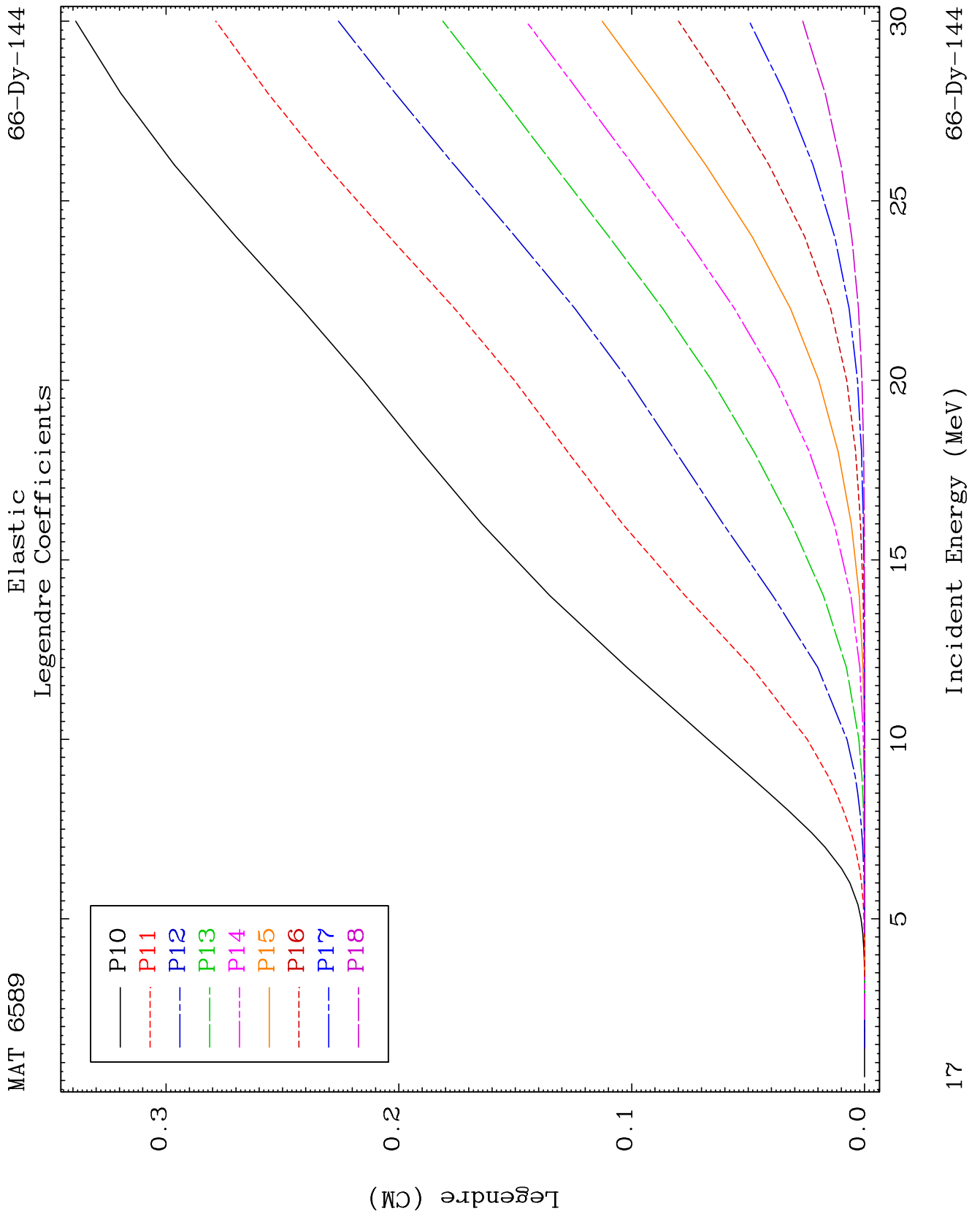
66-Dy-144



16

Incident Energy (MeV)

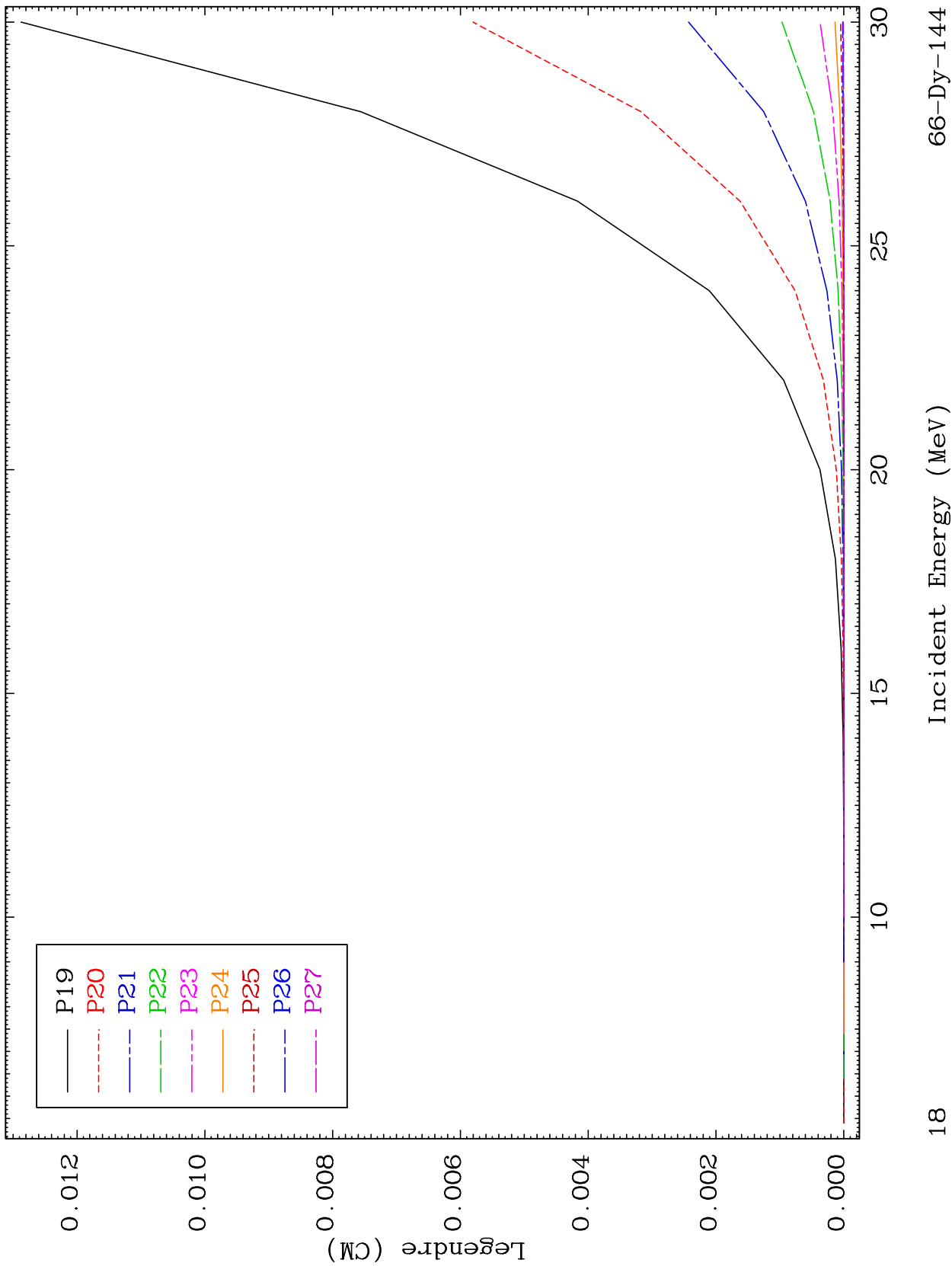
66-Dy-144



MAT 6589

### Elastic Legendre Coefficients

66-Dy-144



18

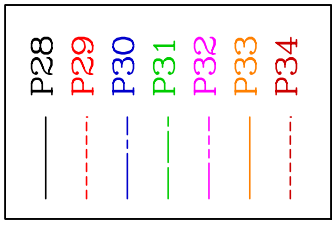
Incident Energy (MeV)

66-Dy-144

MAT 6589

Elastic Legendre Coefficients

66-Dy-144



$\times 10^{-6}$

1.5

Legendre (CM)

1.0

0.5

0.0

15

20

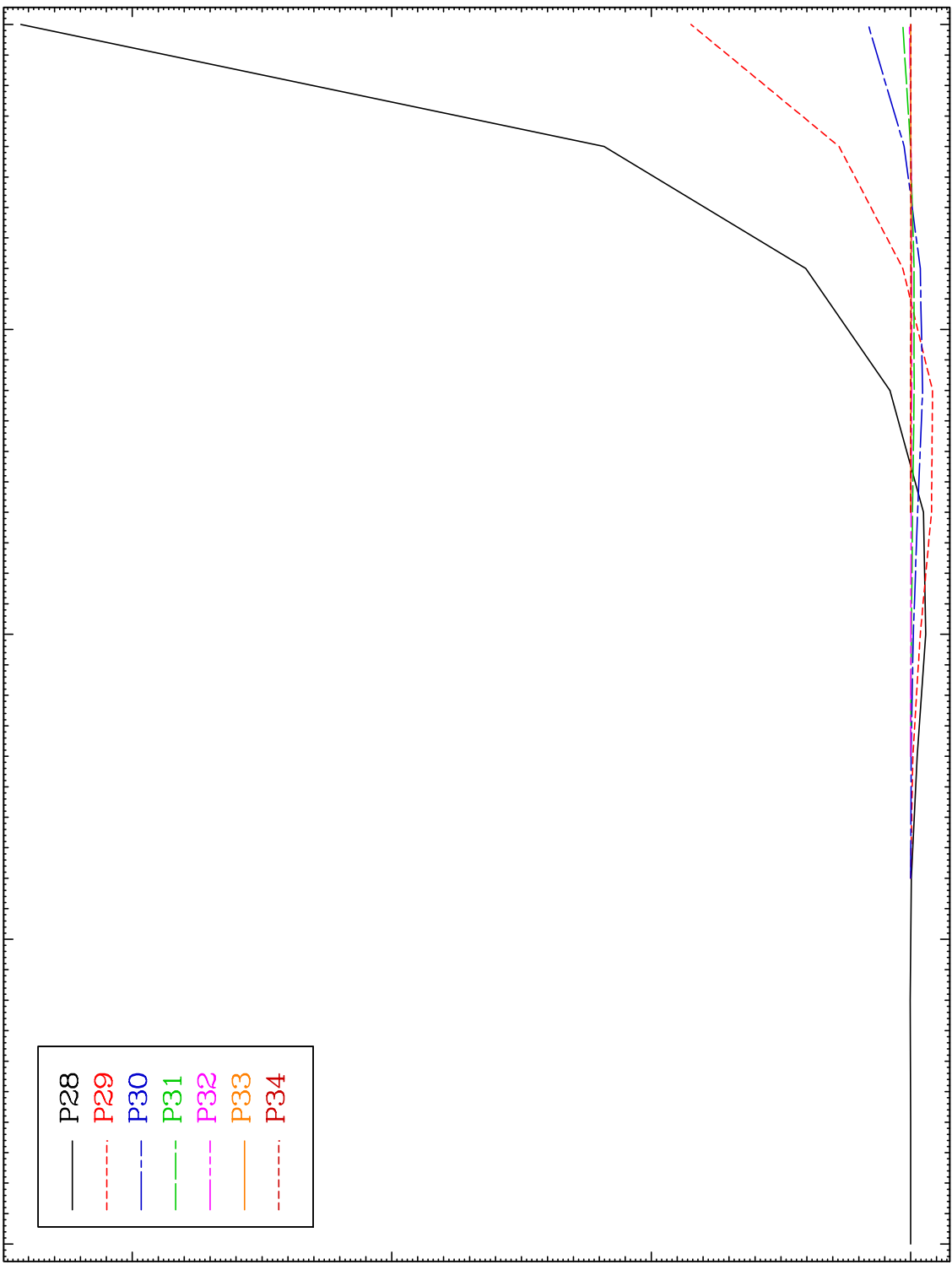
25

30

19

Incident Energy (MeV)

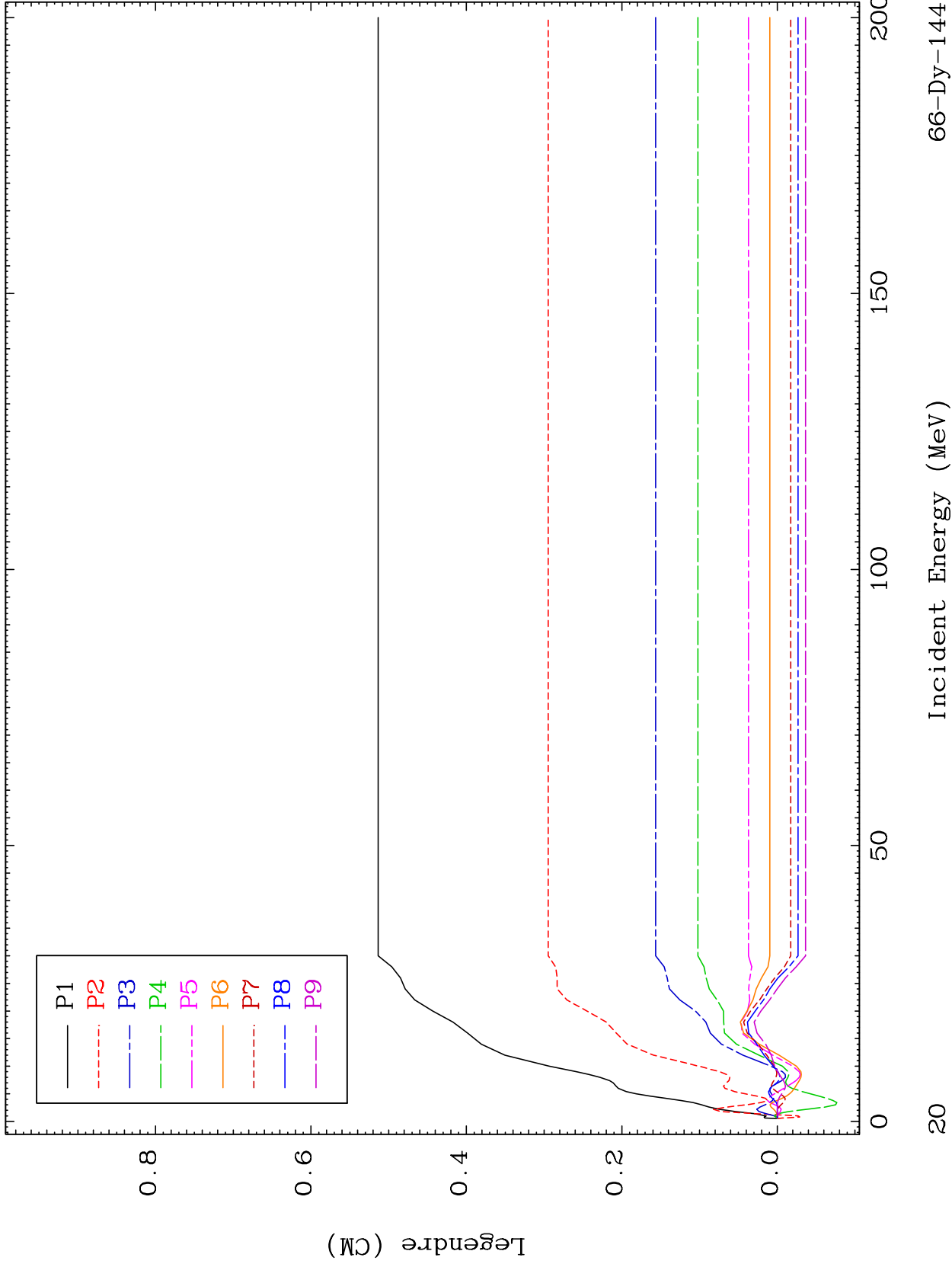
66-Dy-144



MAT 6589

492.5 keV (n,n') Level  
Legendre Coefficients

66-Dy-144



66-Dy-144

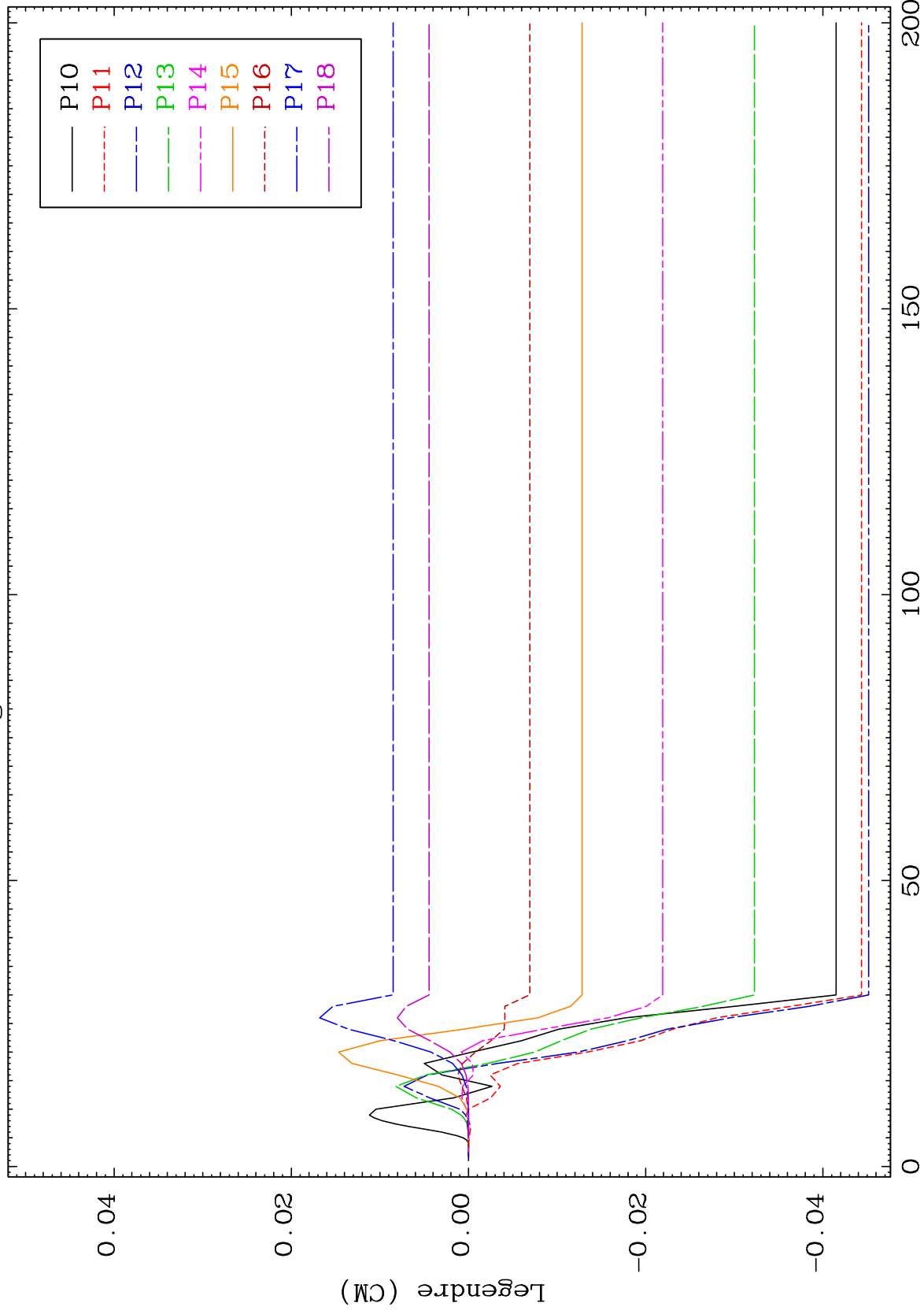
Incident Energy (MeV)

0

MAT 6589

492.5 keV (n,n') Level  
Legendre Coefficients

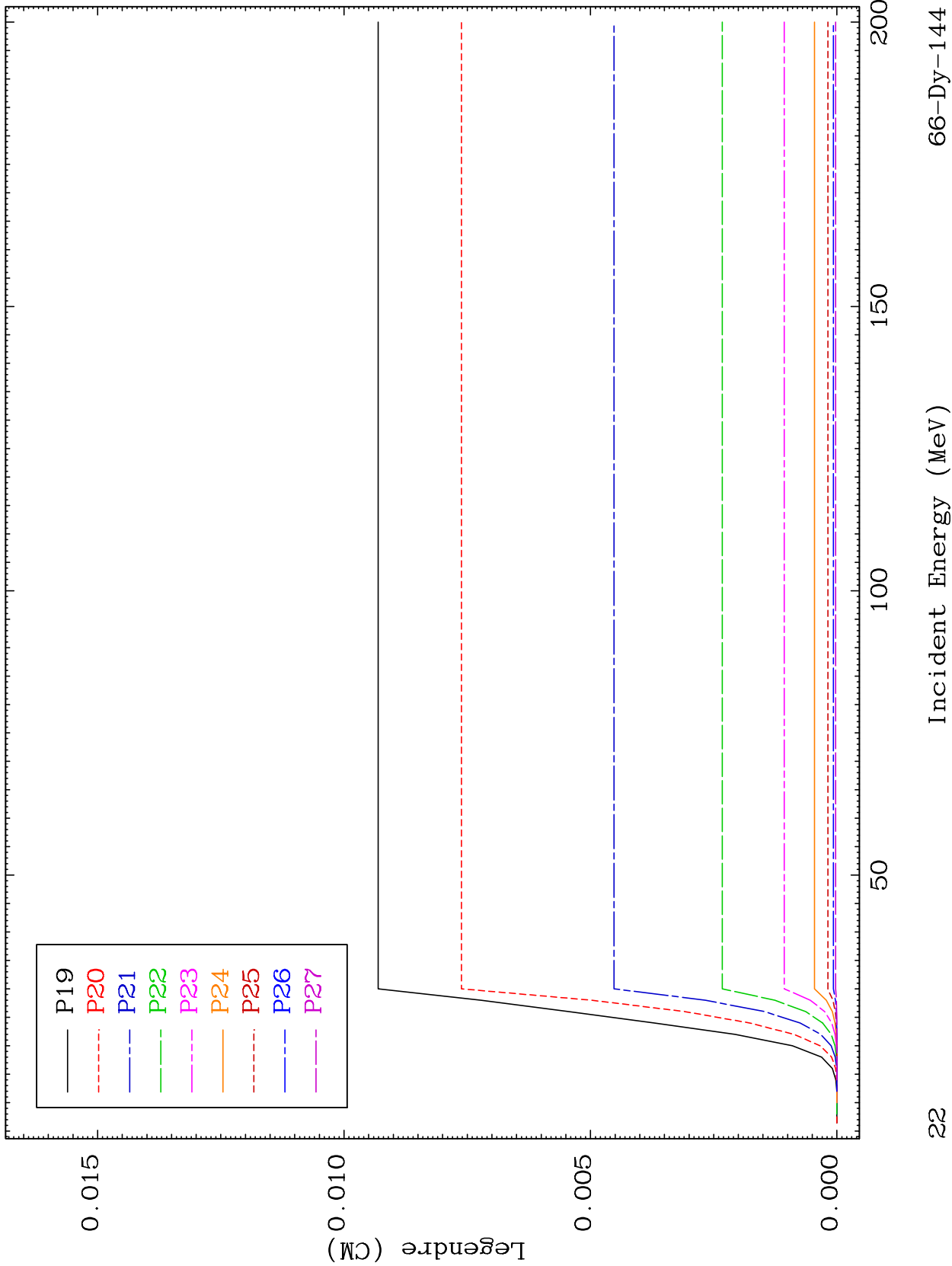
66-Dy-144



21

Incident Energy (MeV)

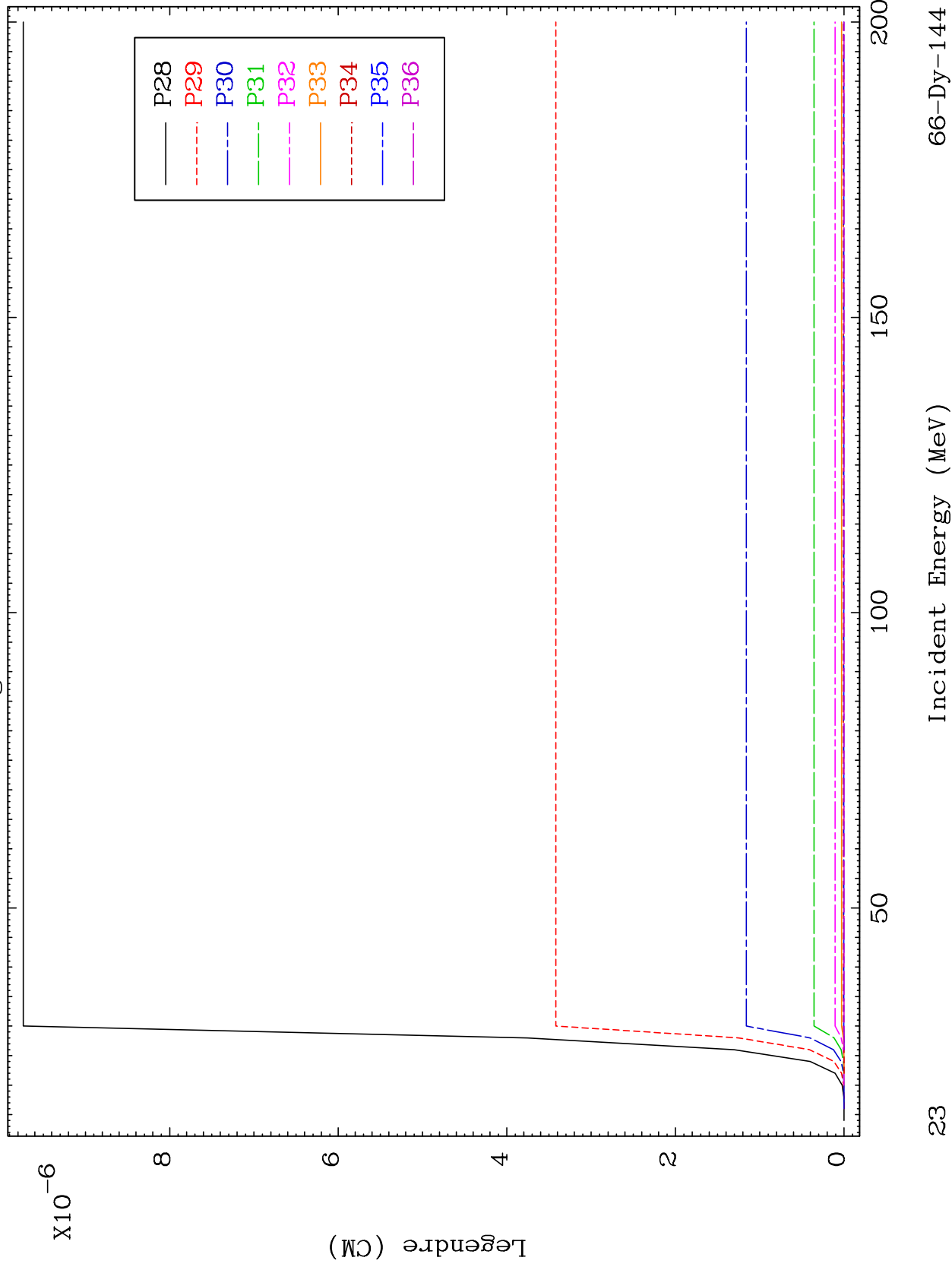
66-Dy-144



MAT 6589

492.5 keV (n,n') Level  
Legendre Coefficients

66-Dy-144

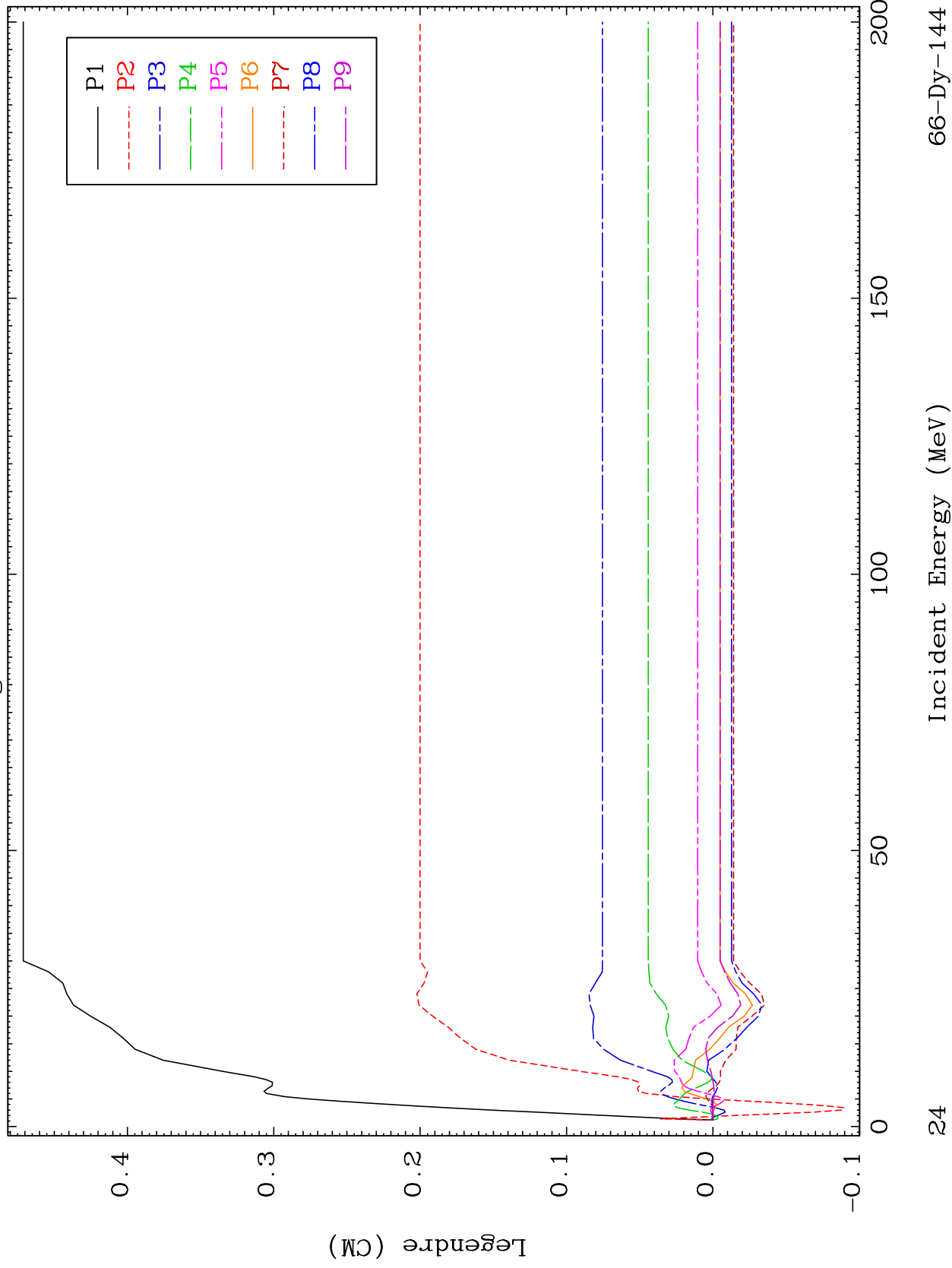




MAT 6589

1.165 MeV (n,n') Level  
Legendre Coefficients

66-Dy-144



66-Dy-144

Incident Energy (MeV)

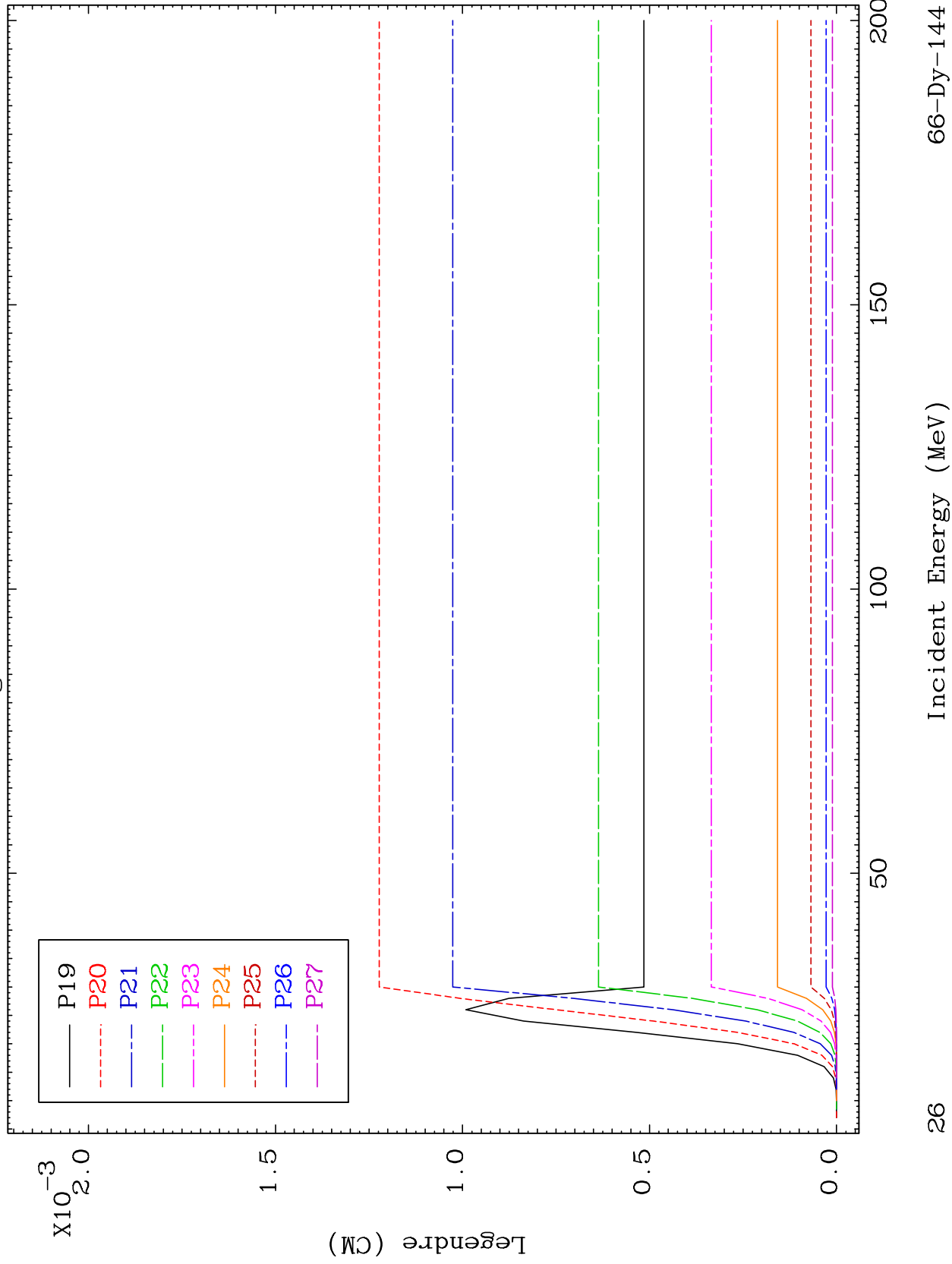
24



MAT 6589

1.165 MeV (n, n') Level  
Legendre Coefficients

66-Dy-144

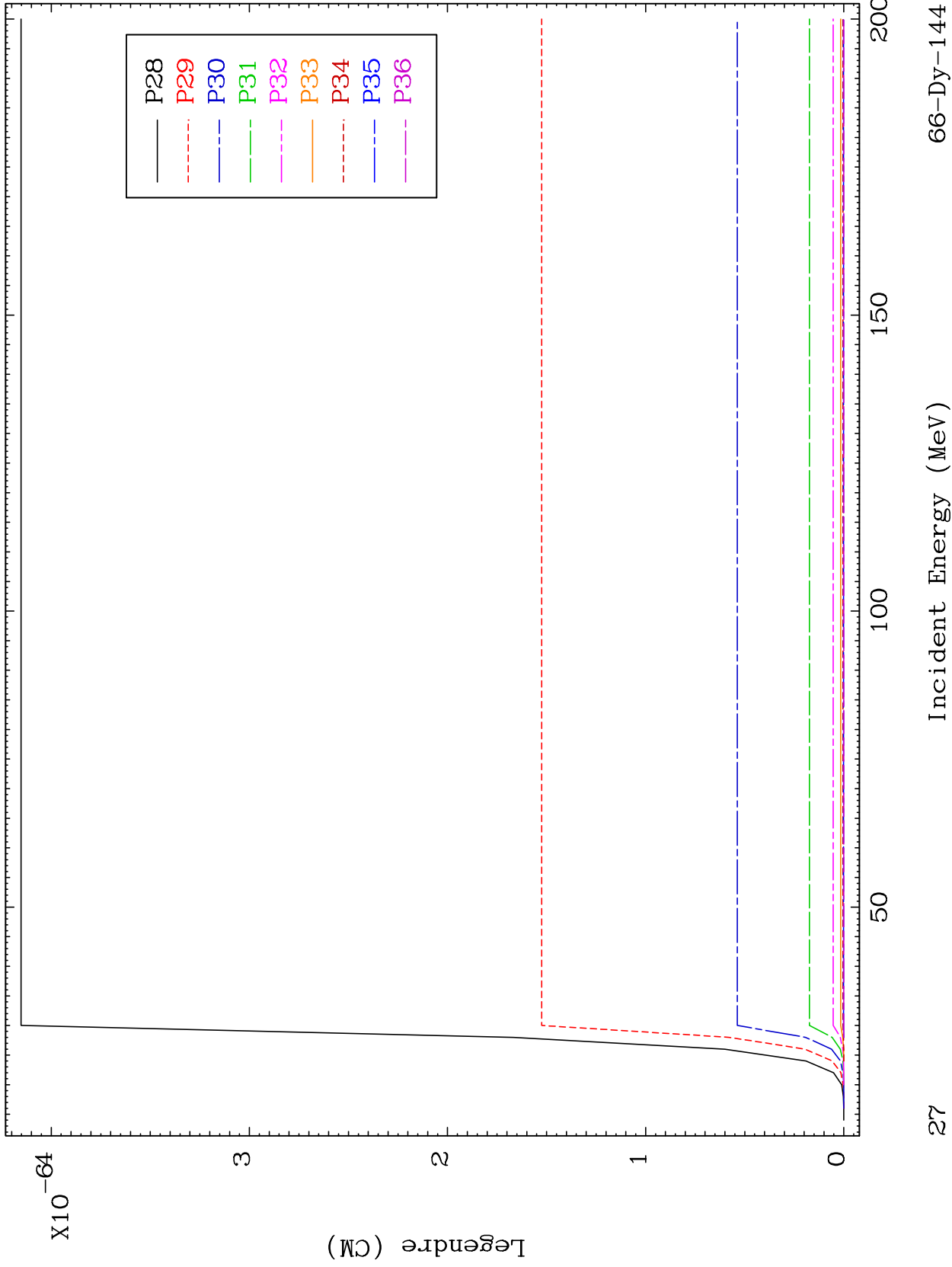


26

MAT 6589

1.165 MeV (n,n') Level  
Legendre Coefficients

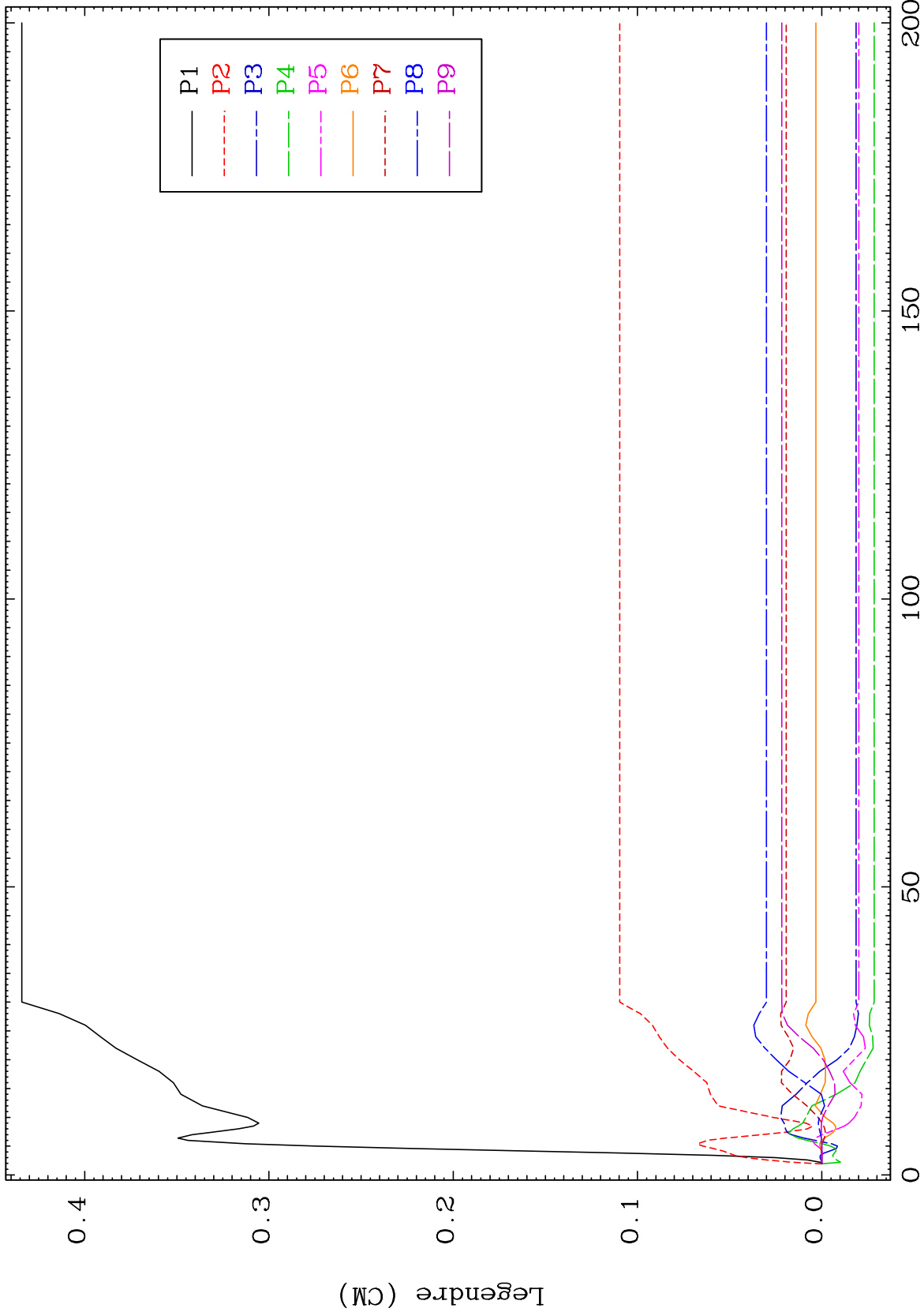
66-Dy-144



MAT 6589

1.917 MeV (n,n') Level Legendre Coefficients

66-Dy-144



28

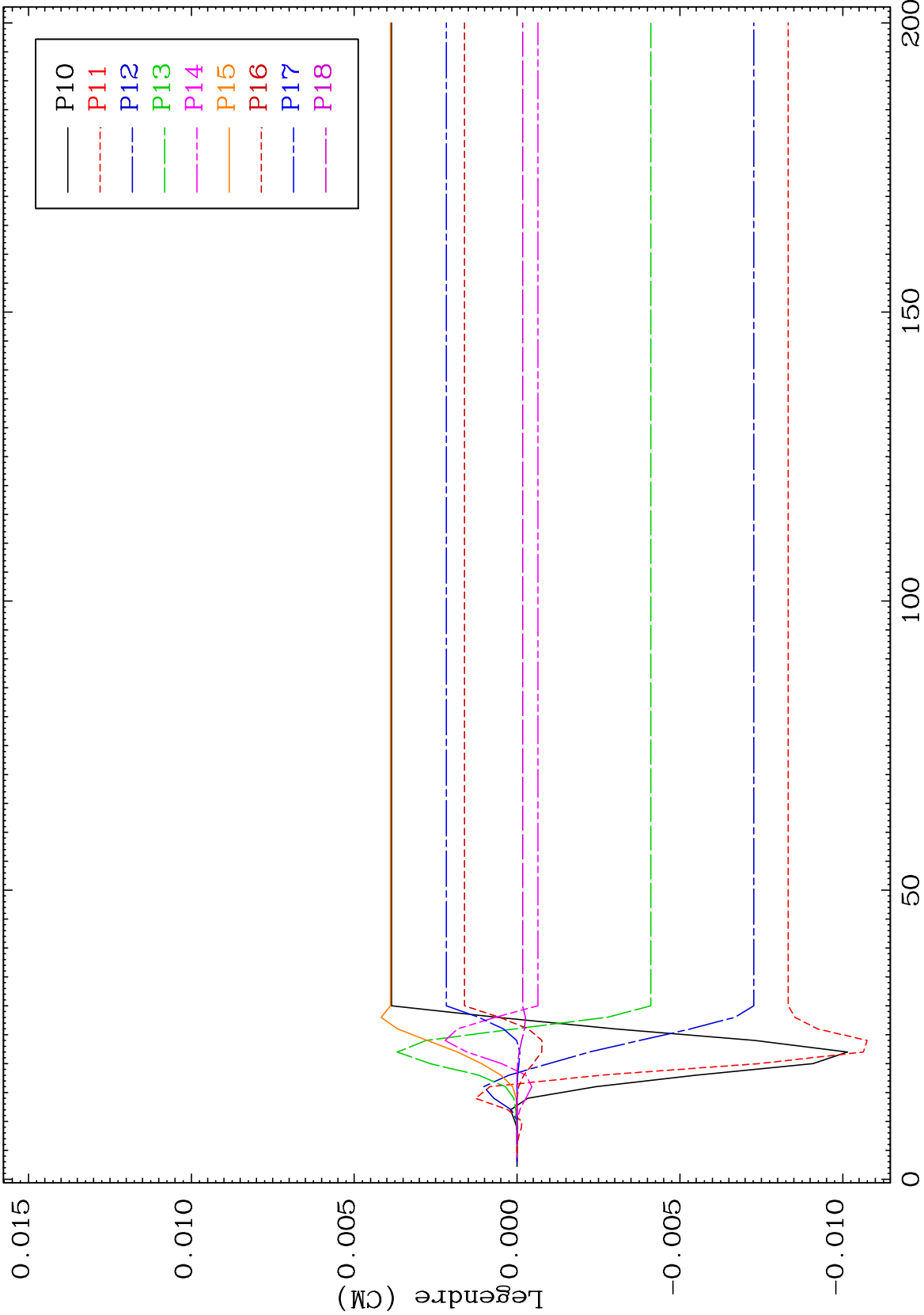
Incident Energy (MeV)

66-Dy-144

MAT 6589

1.917 MeV (n,n') Level  
Legendre Coefficients

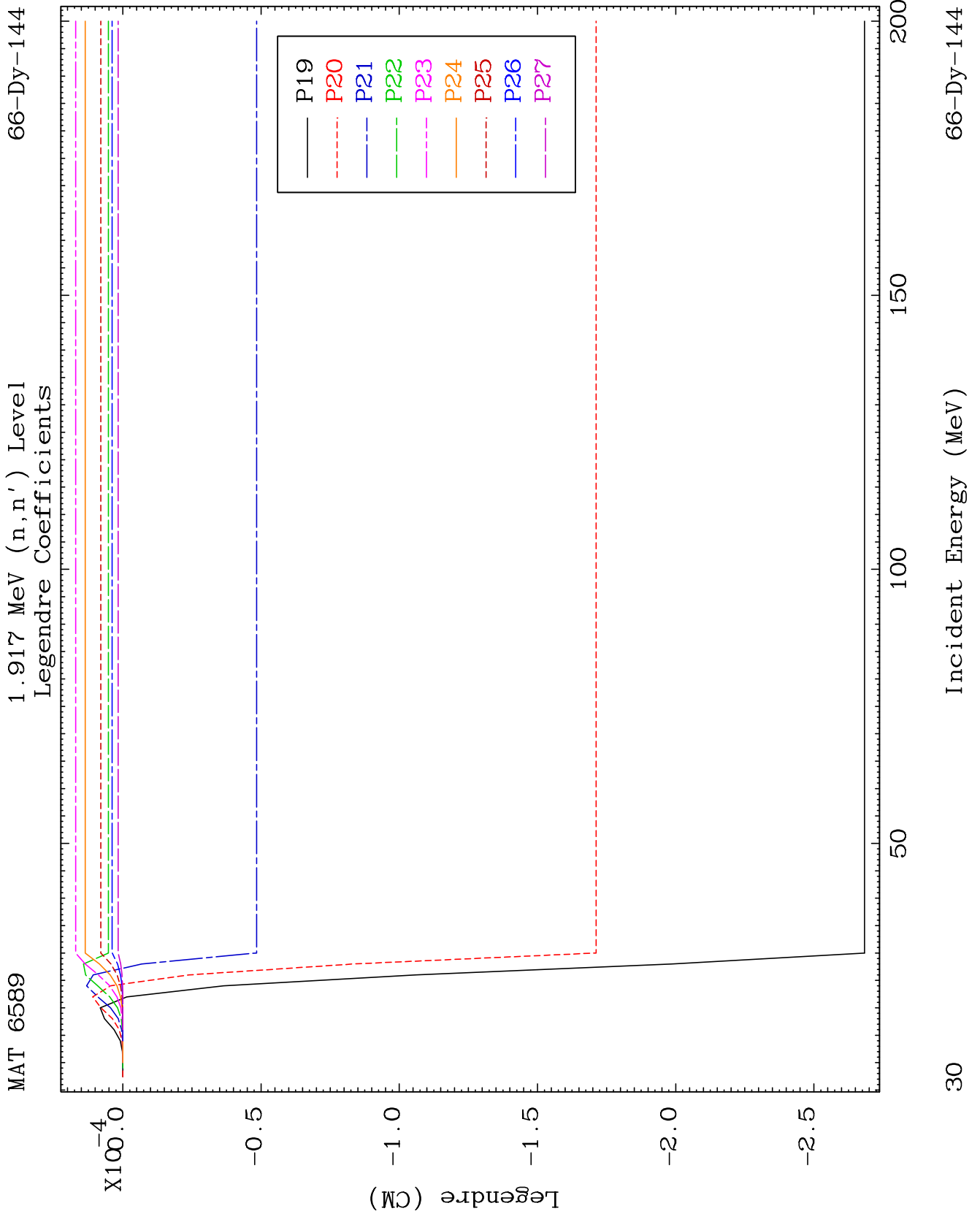
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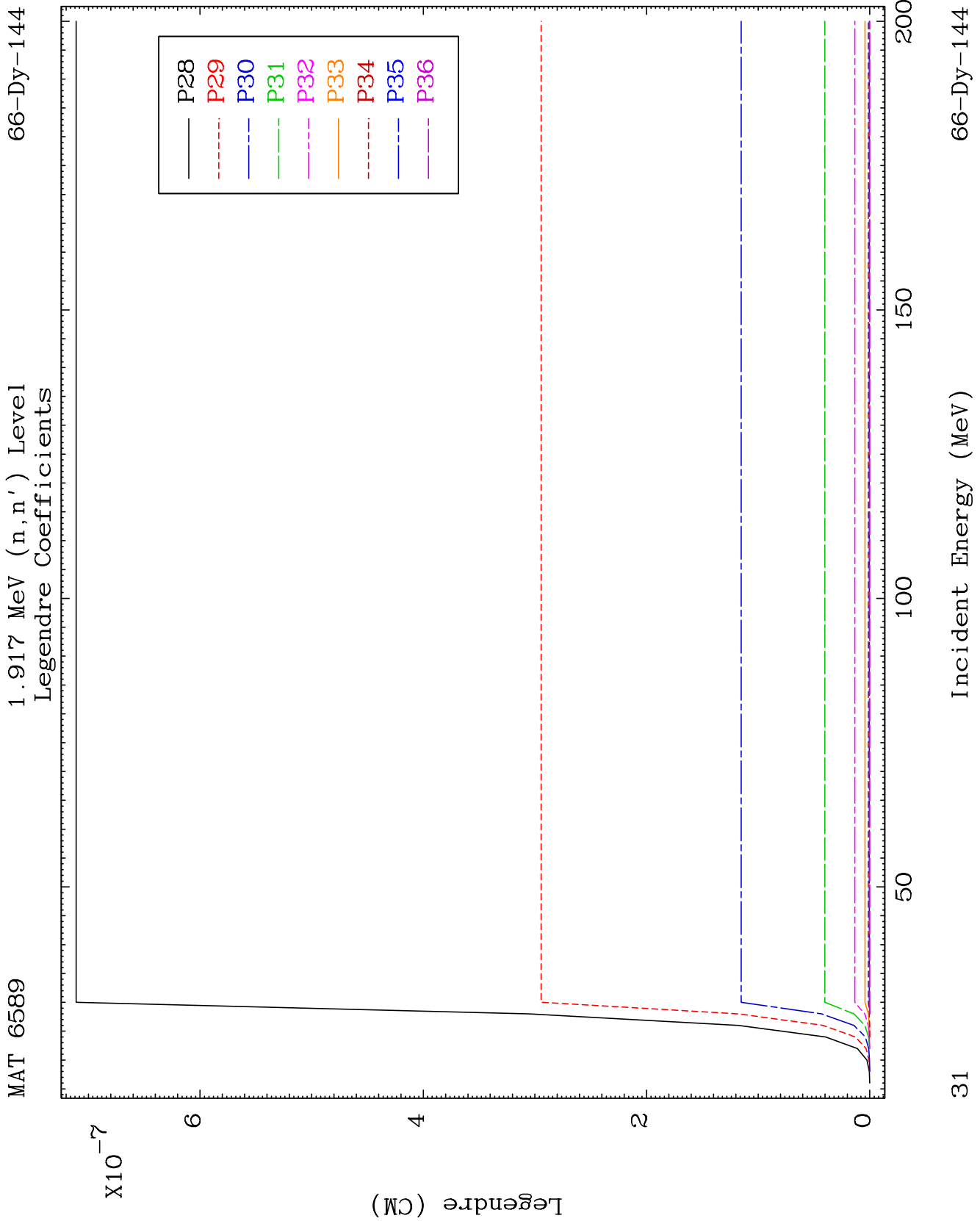


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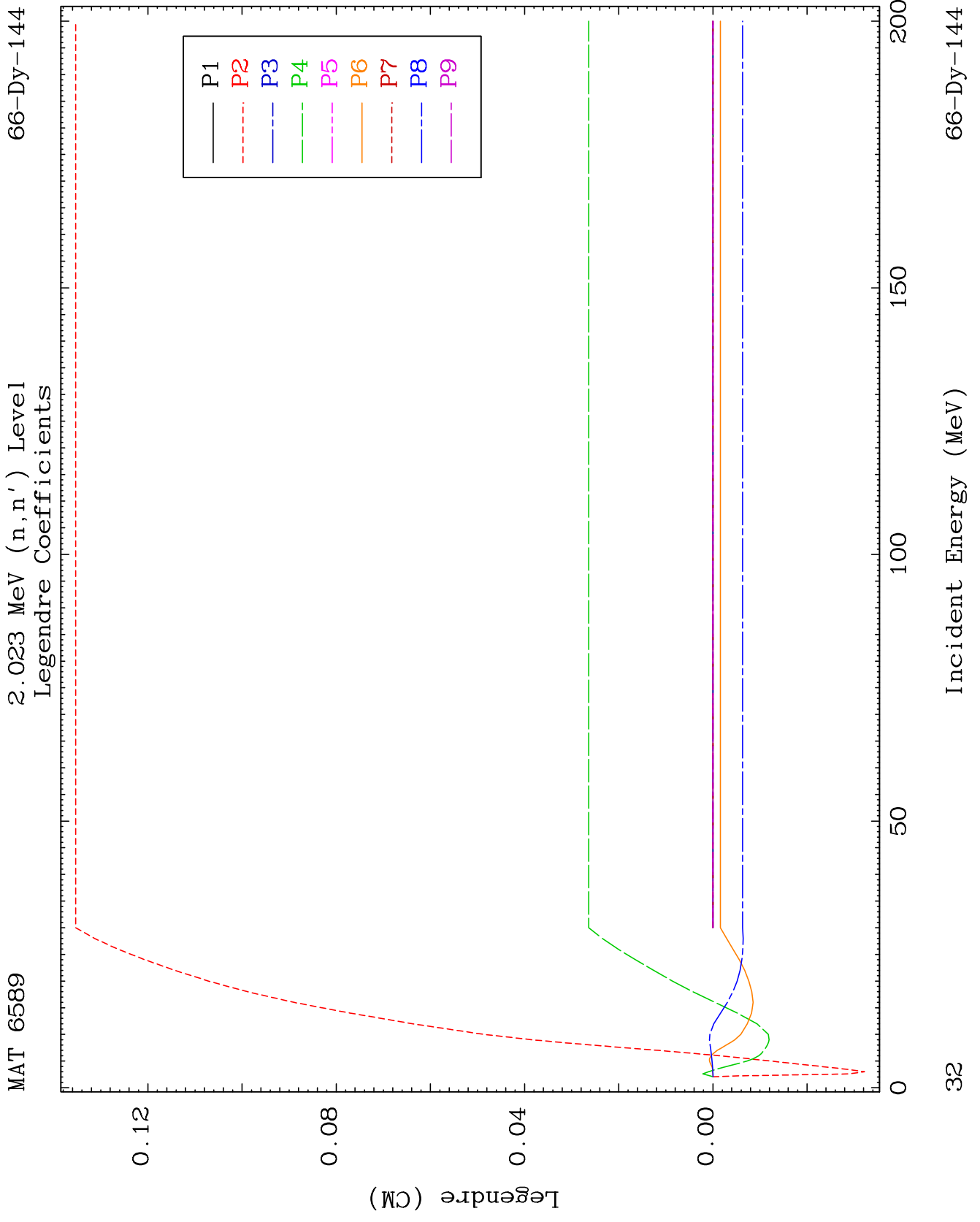
Incident Energy (MeV)

66-Dy-144





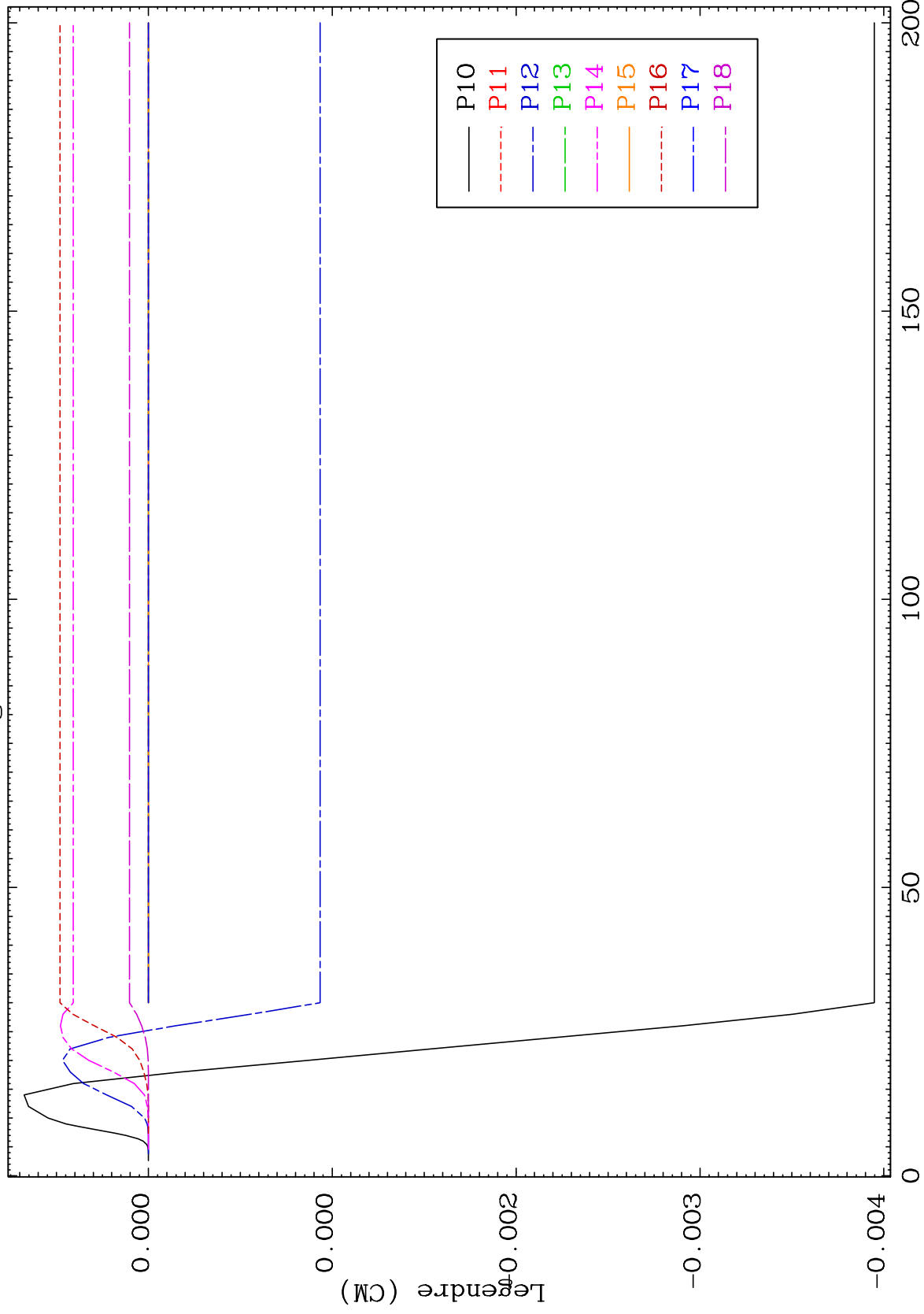




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2.023 MeV (n,n') Level  
Legendre Coefficients

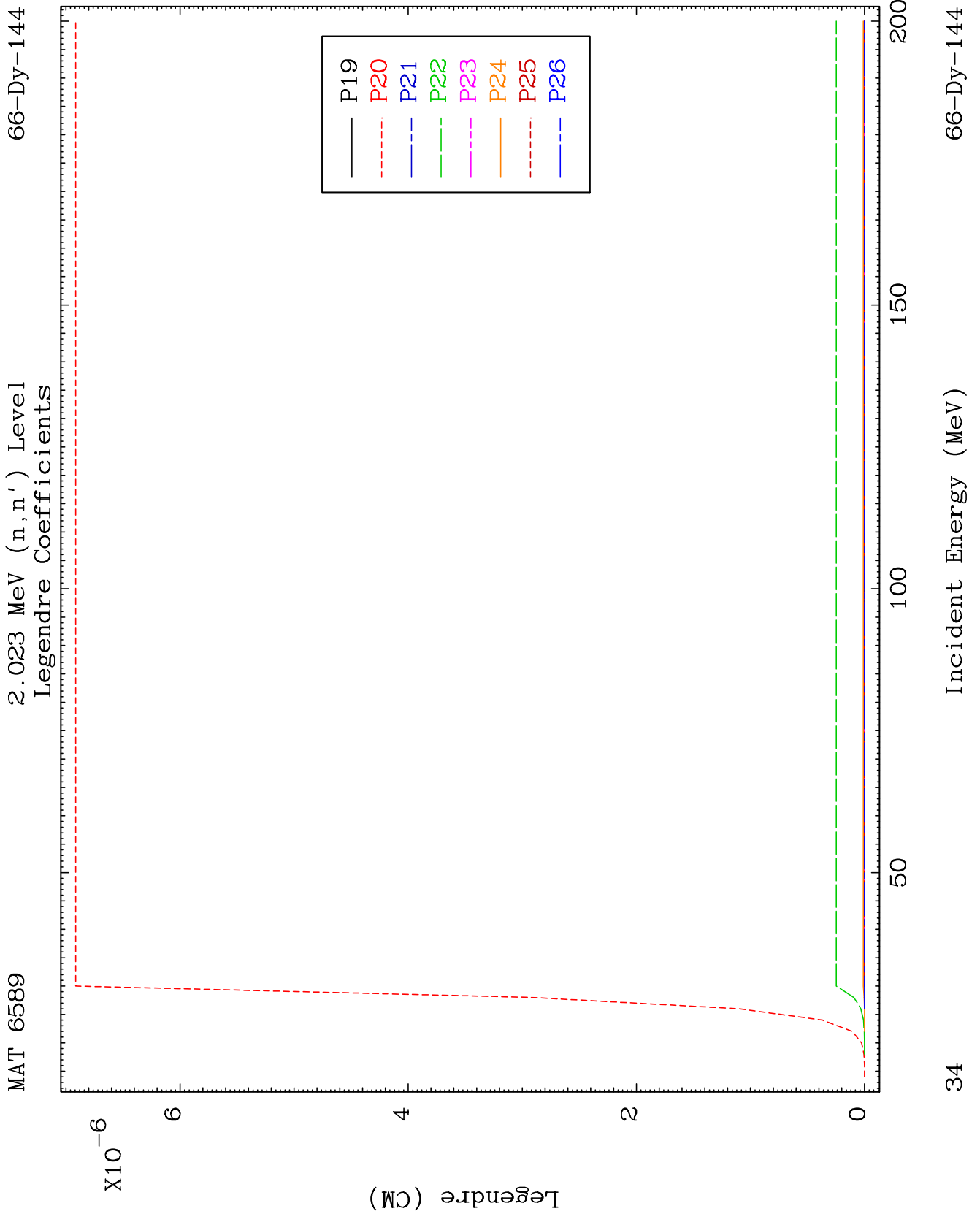
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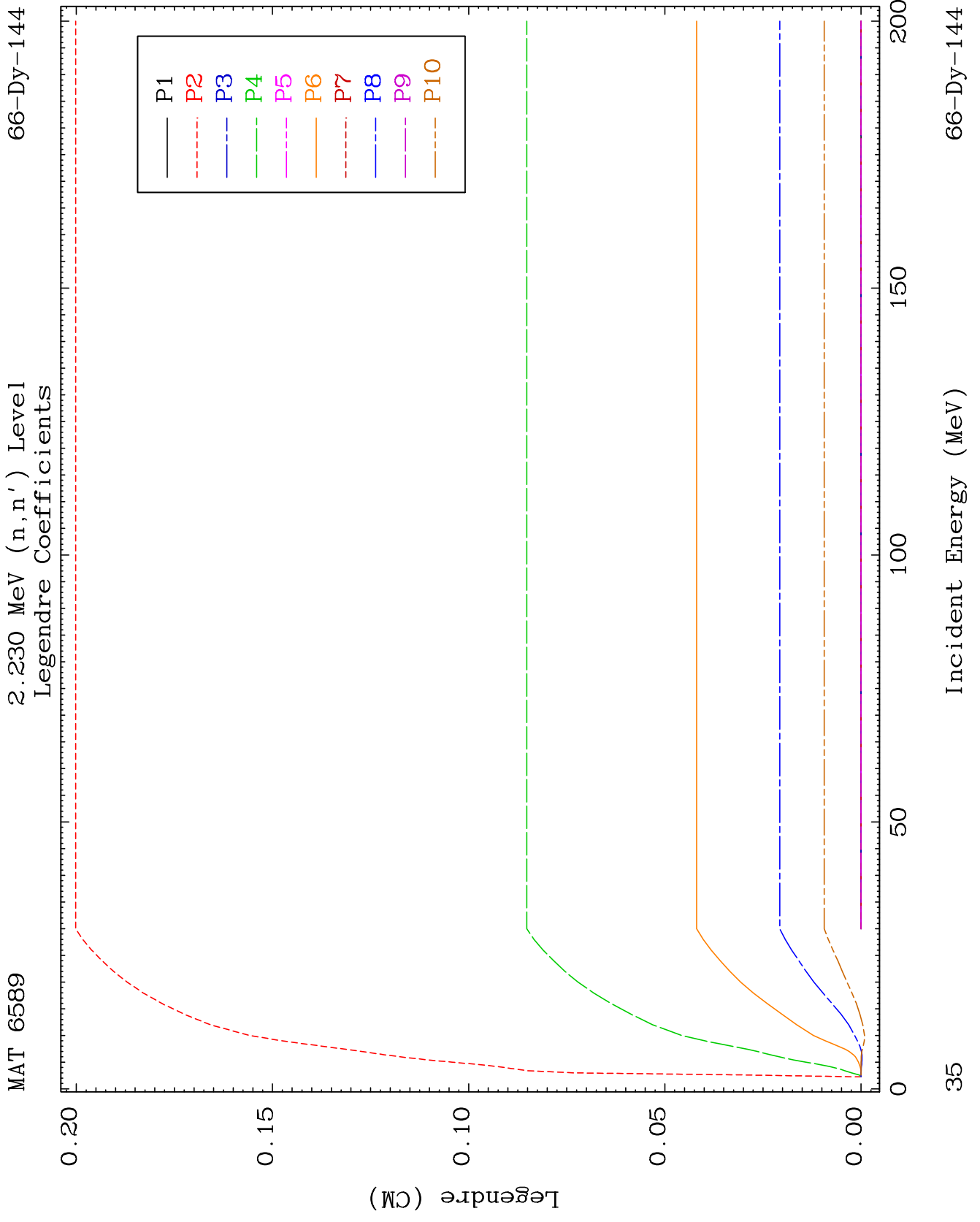


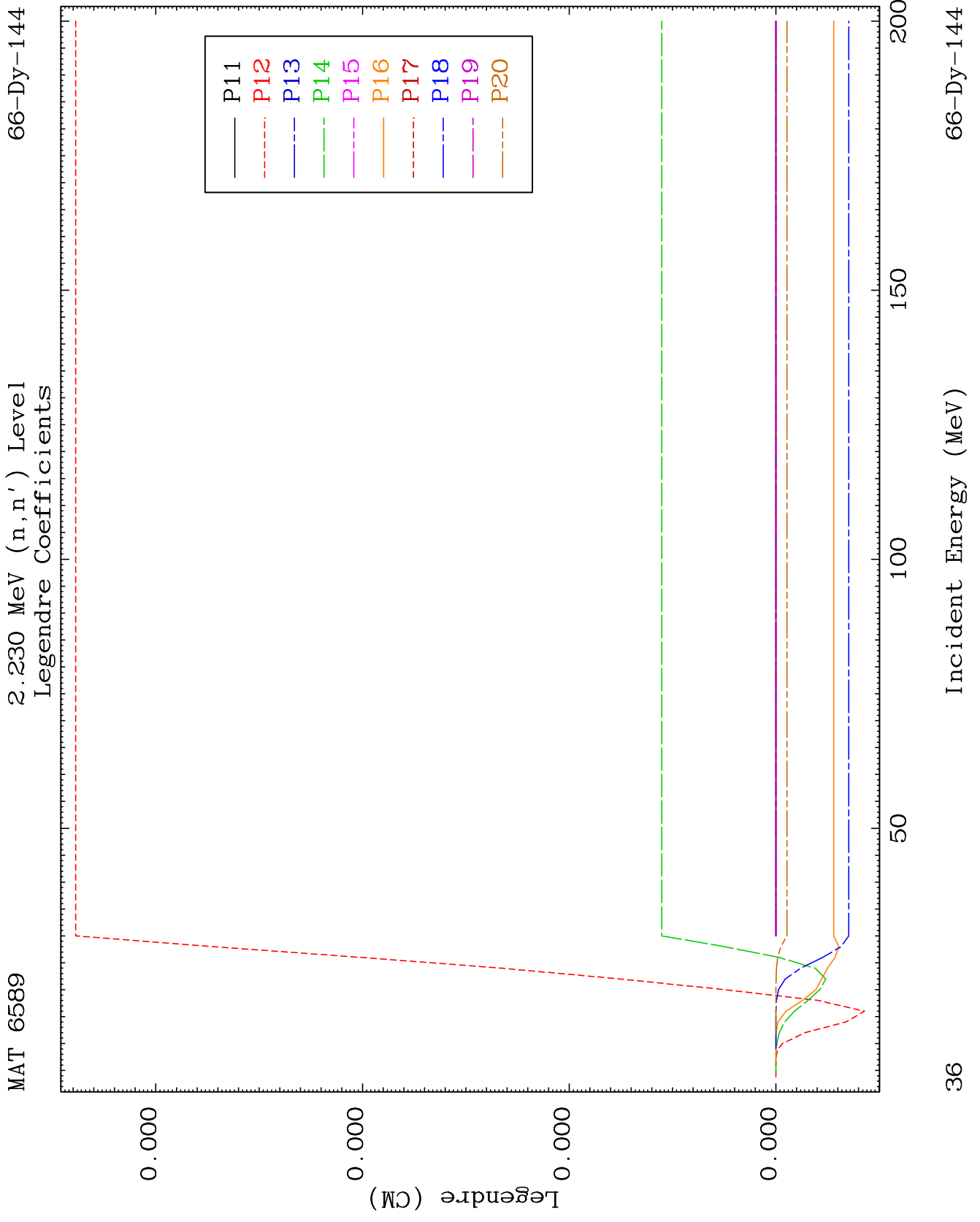
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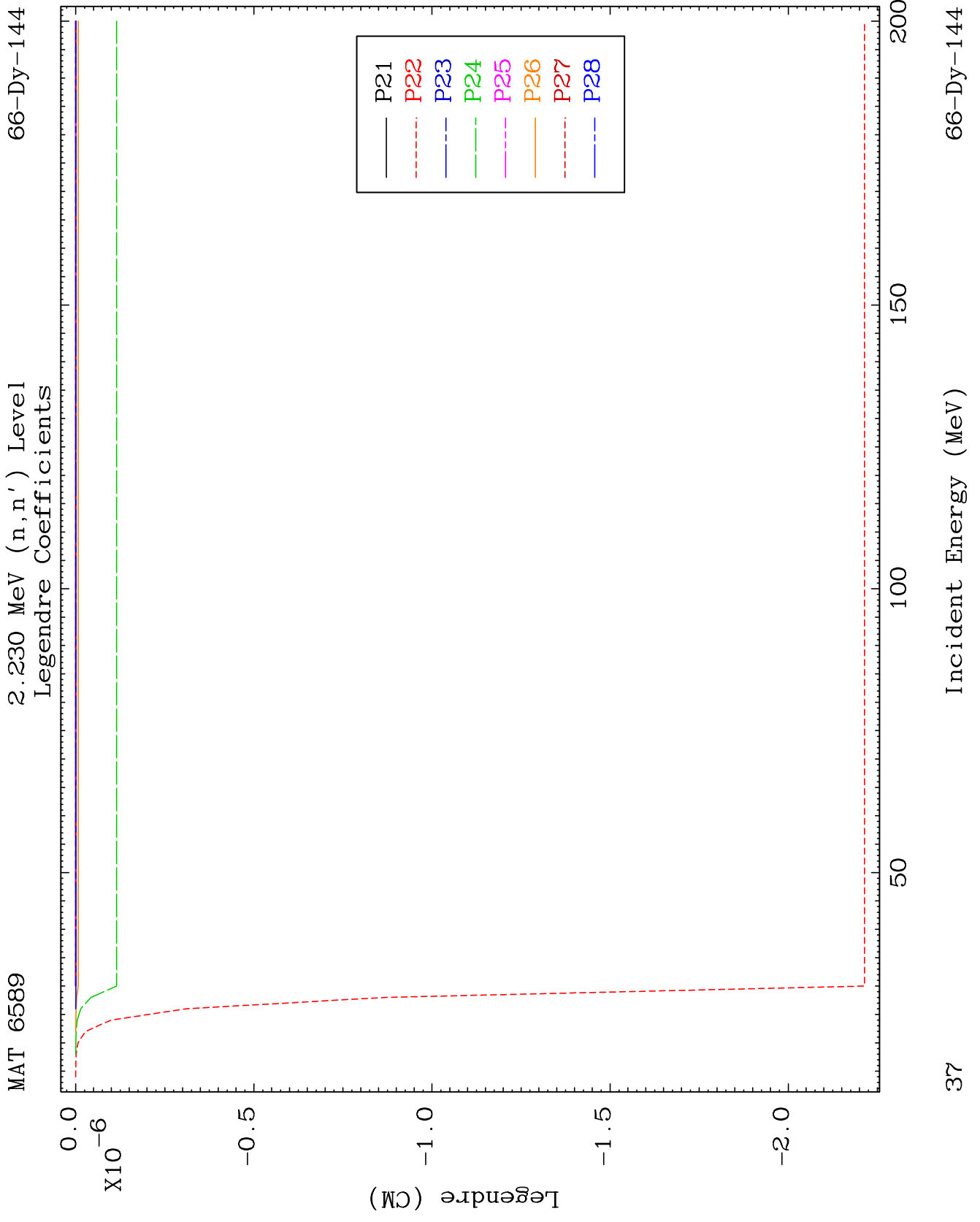
Incident Energy (MeV)

66-Dy-144

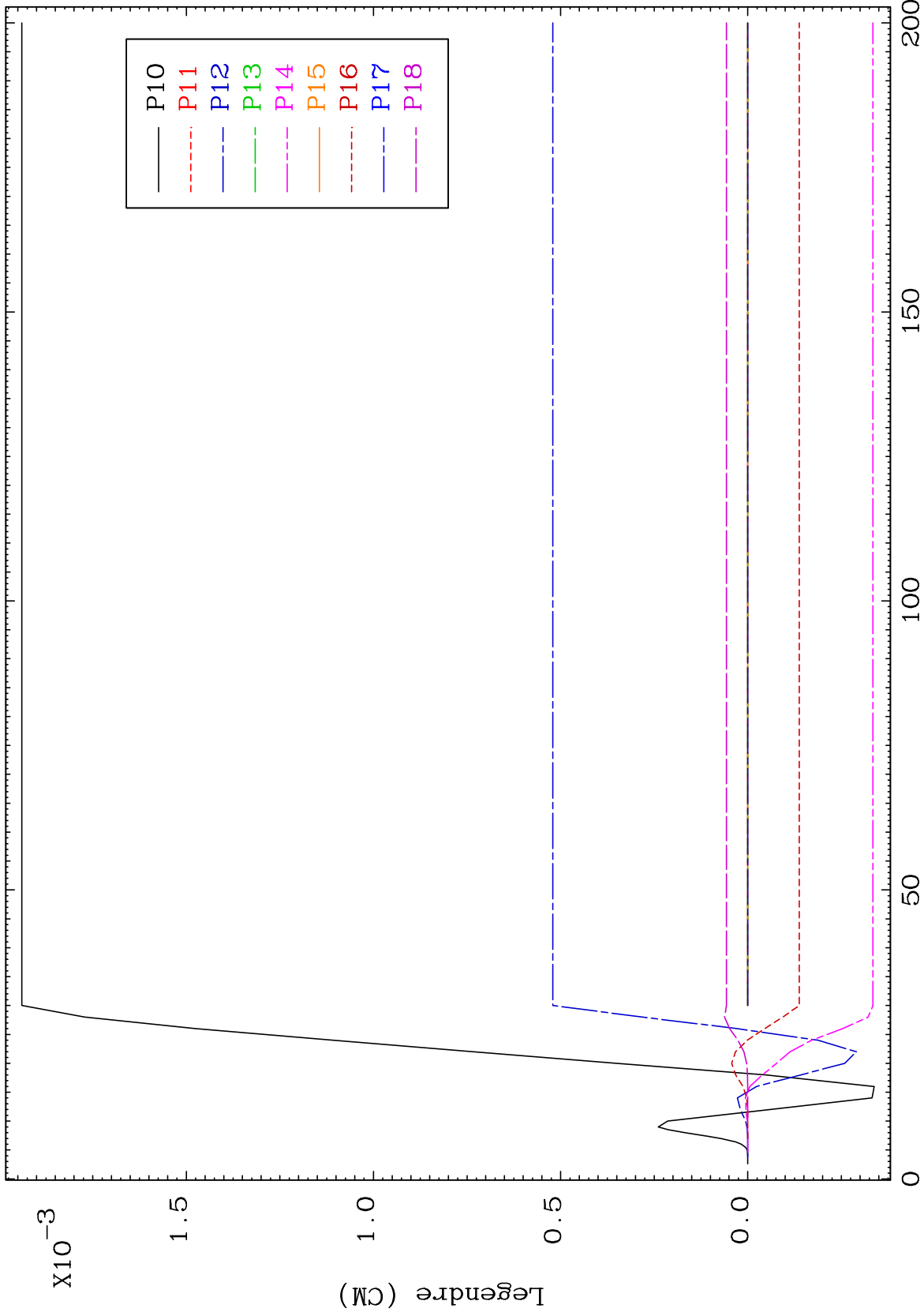












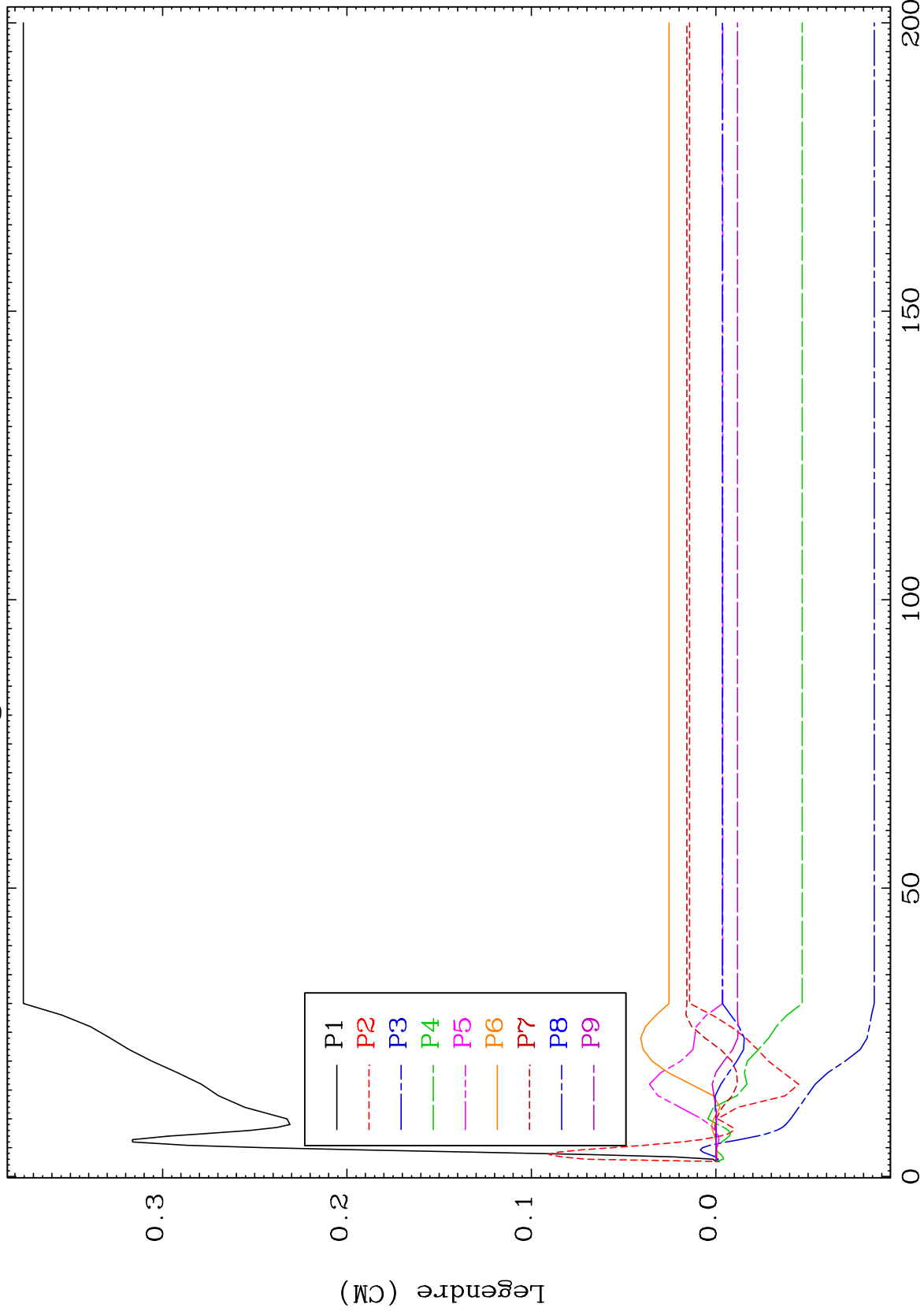




MAT 6589

2.565 MeV (n,n') Level  
Legendre Coefficients

66-Dy-144



41

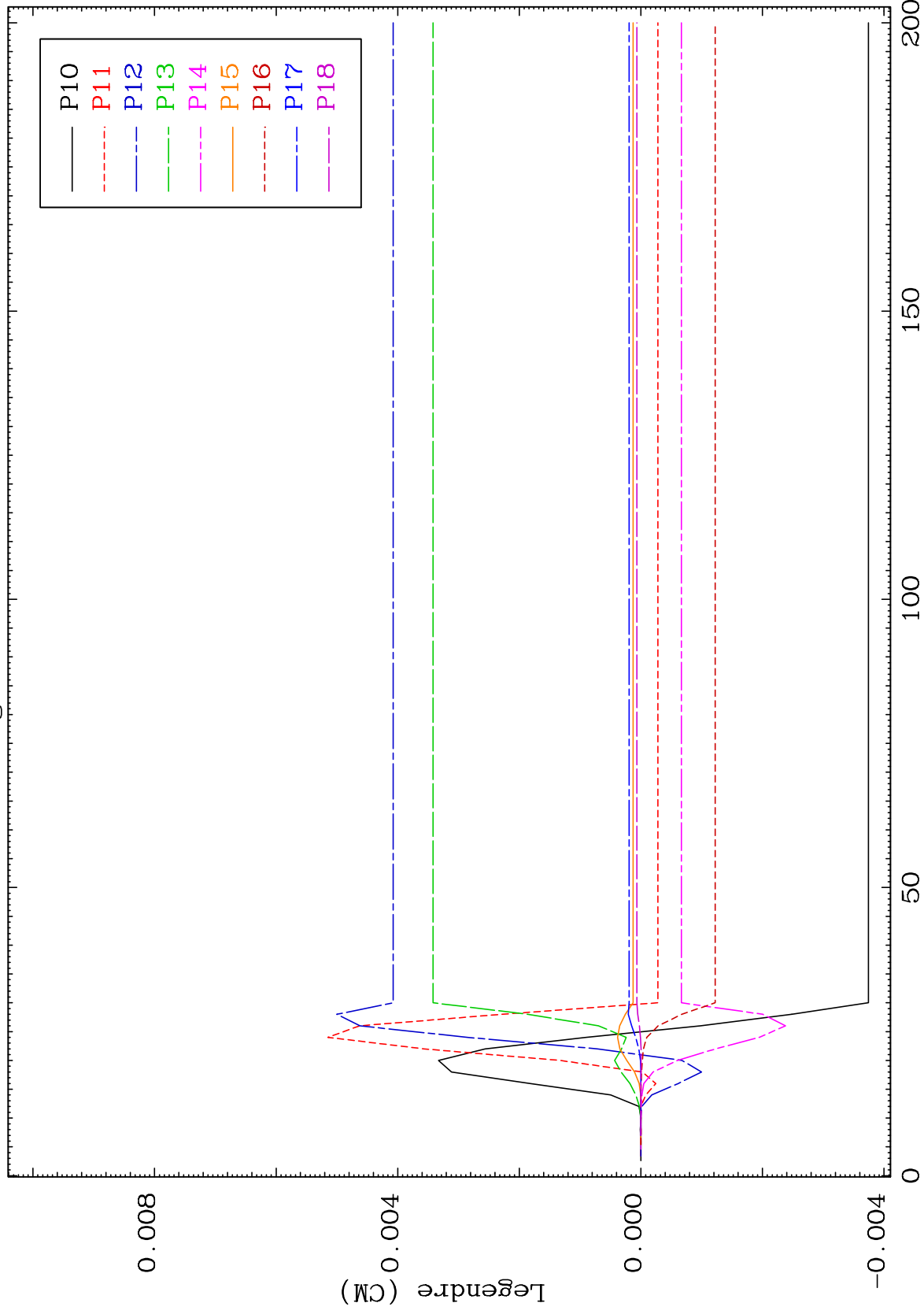
Incident Energy (MeV)

66-Dy-144

MAT 6589

2.565 MeV (n, n') Level  
Legendre Coefficients

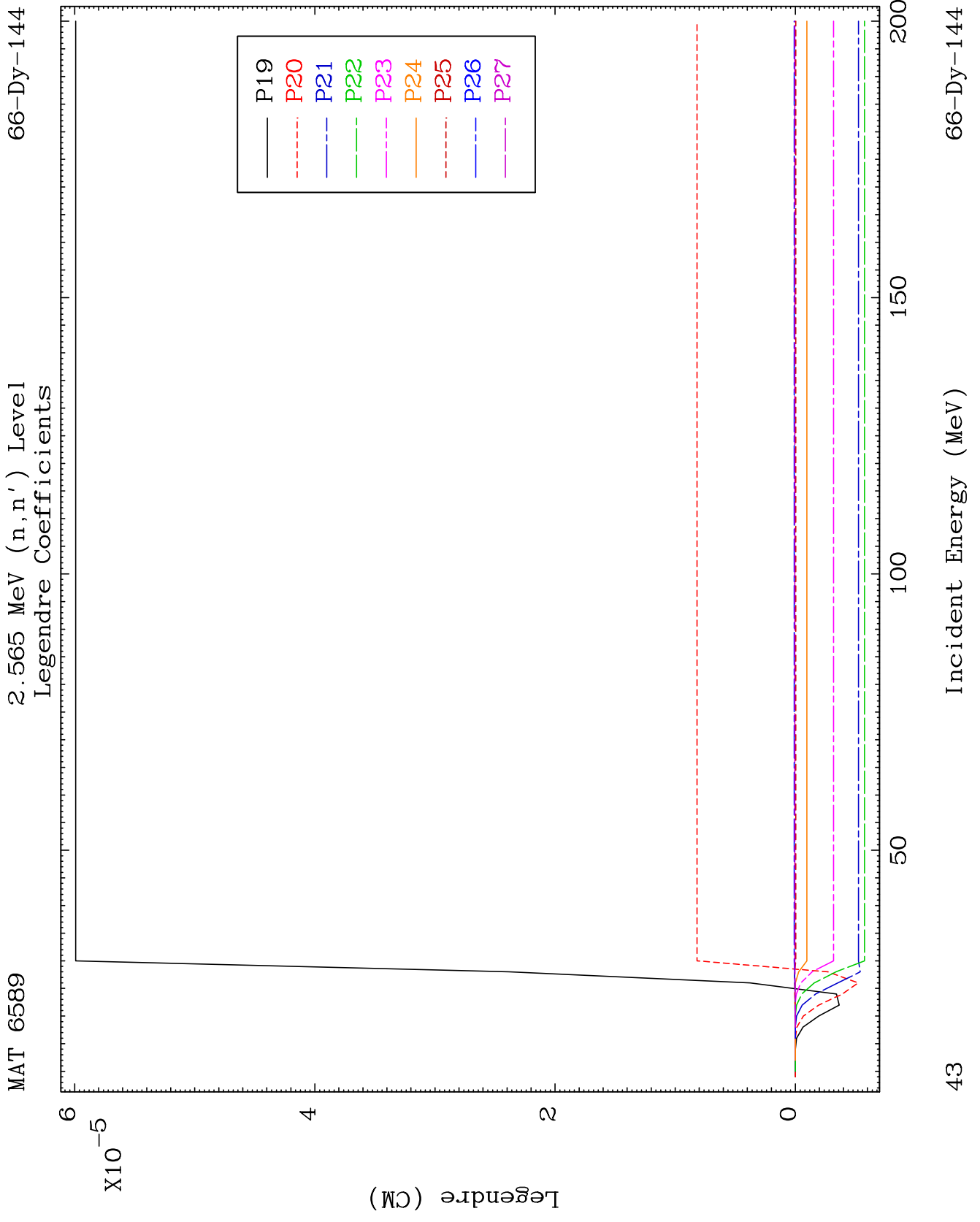
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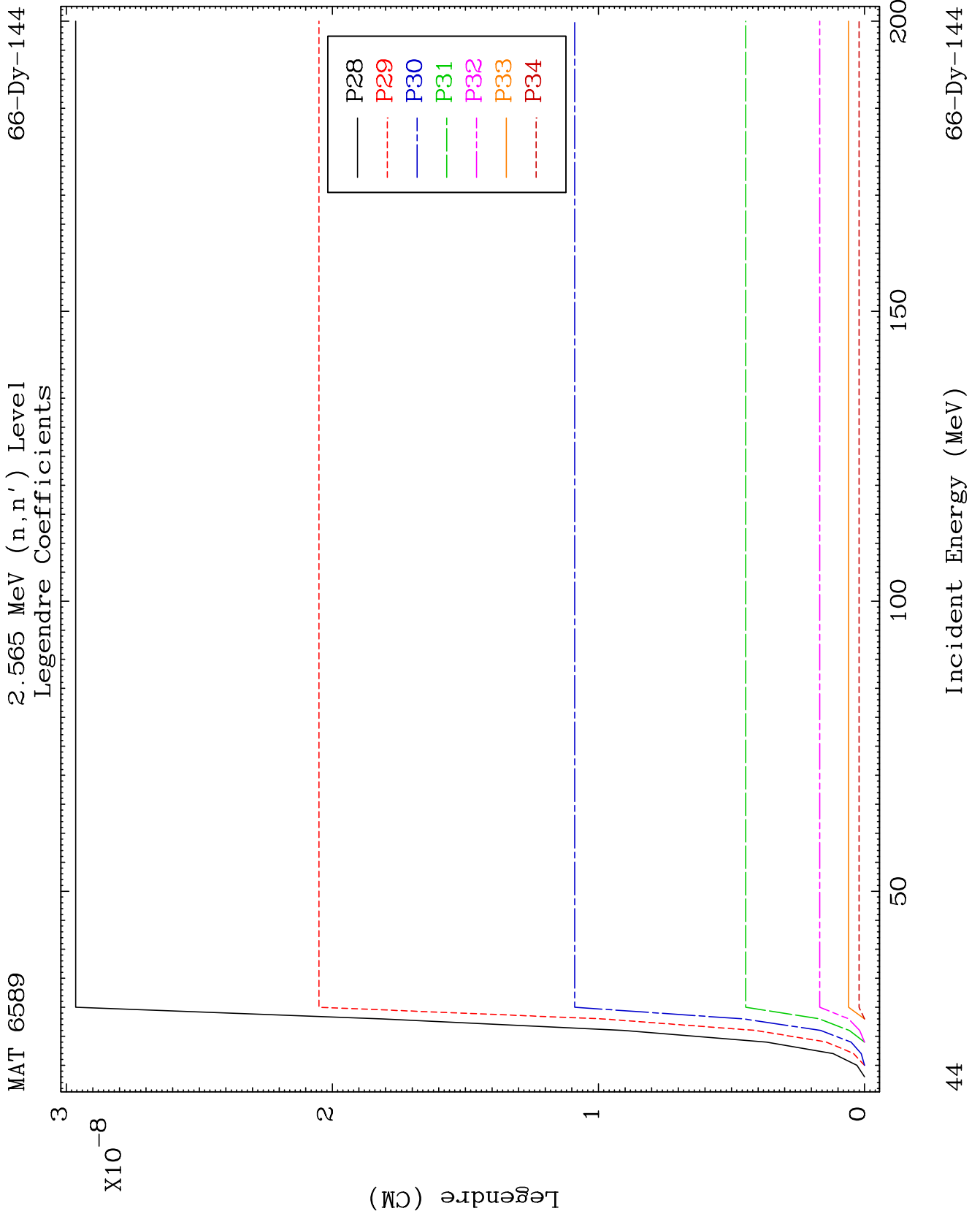


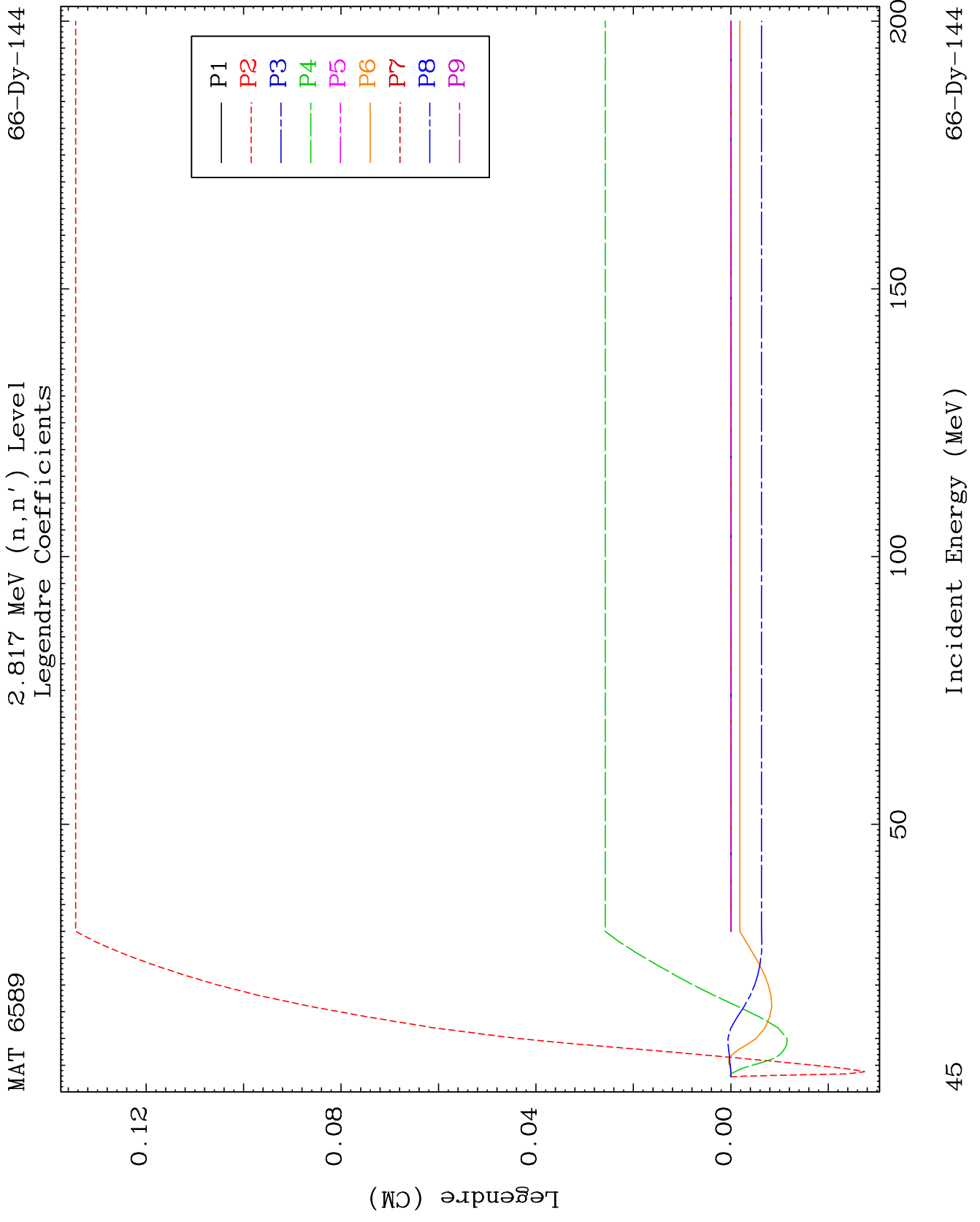
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Incident Energy (MeV)

66-Dy-144



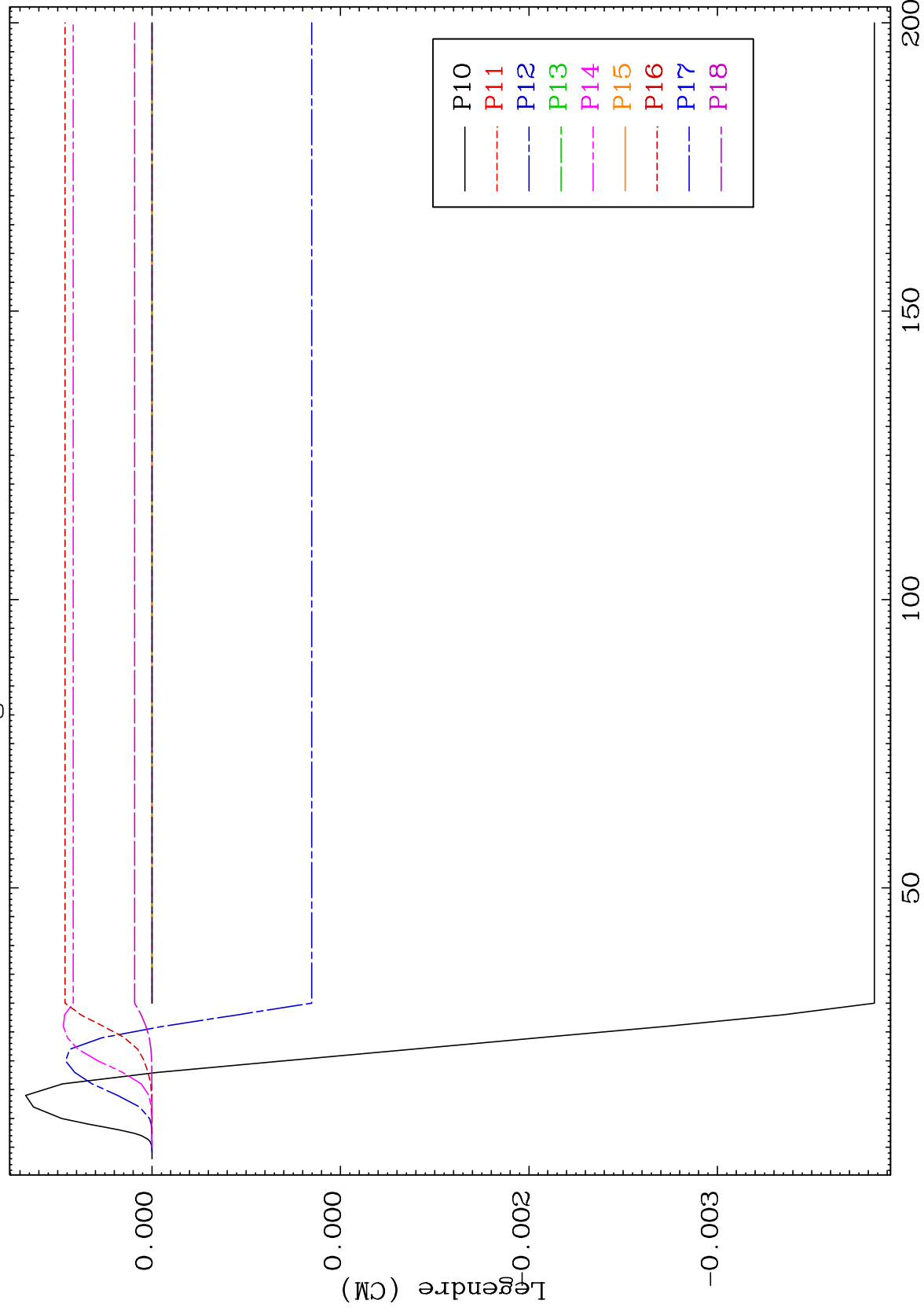




MAT 6589

2.817 MeV (n,n') Level  
Legendre Coefficients

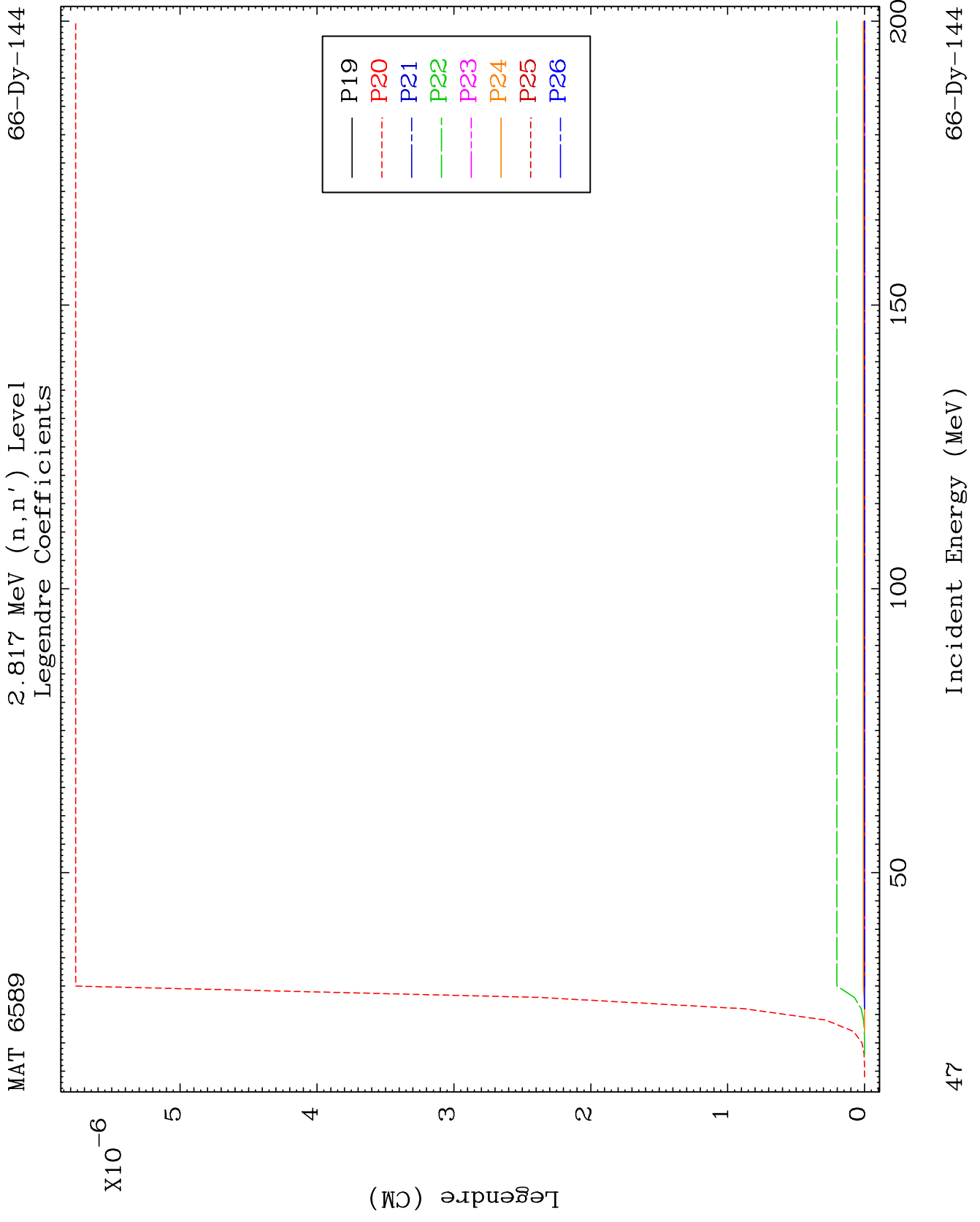
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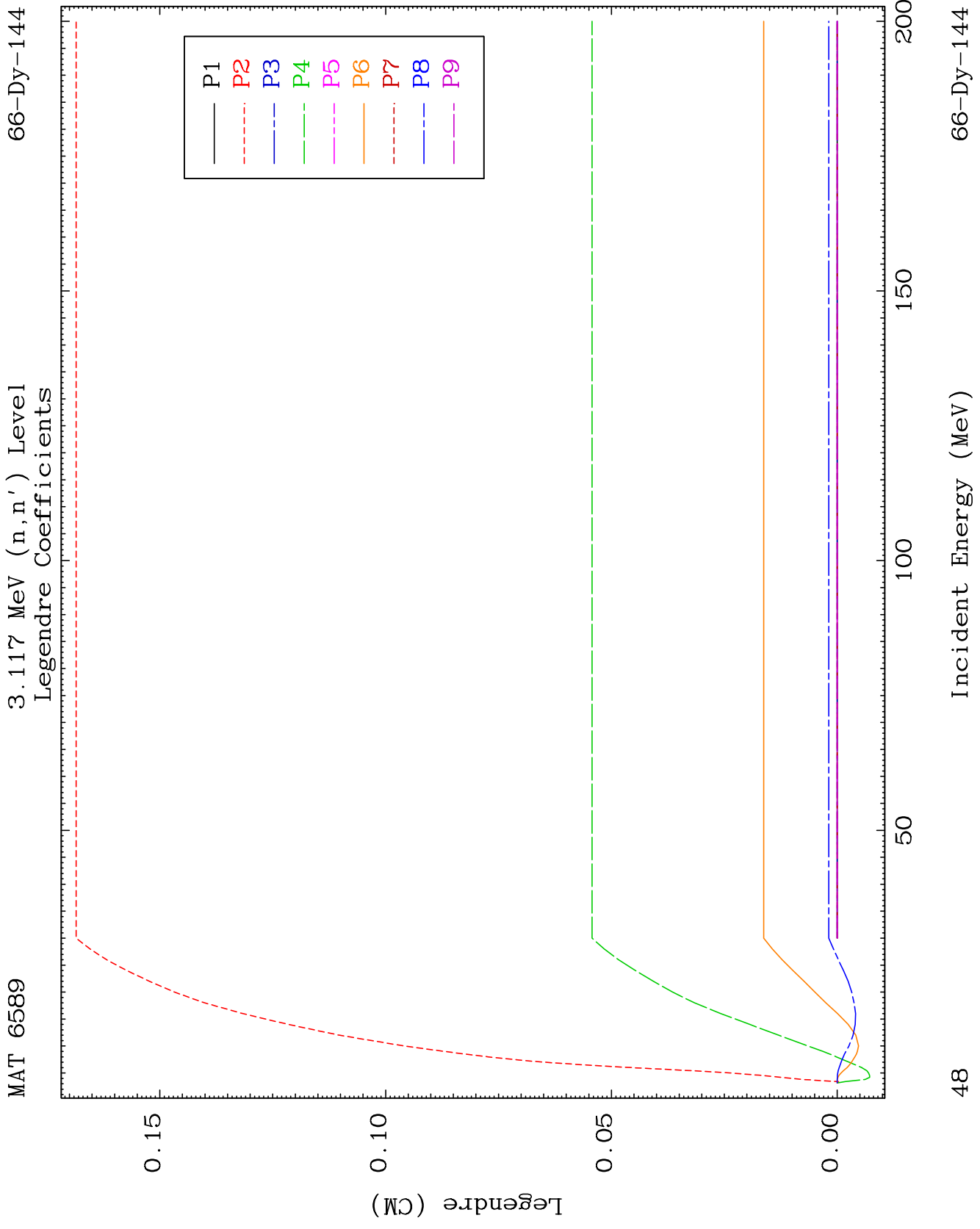
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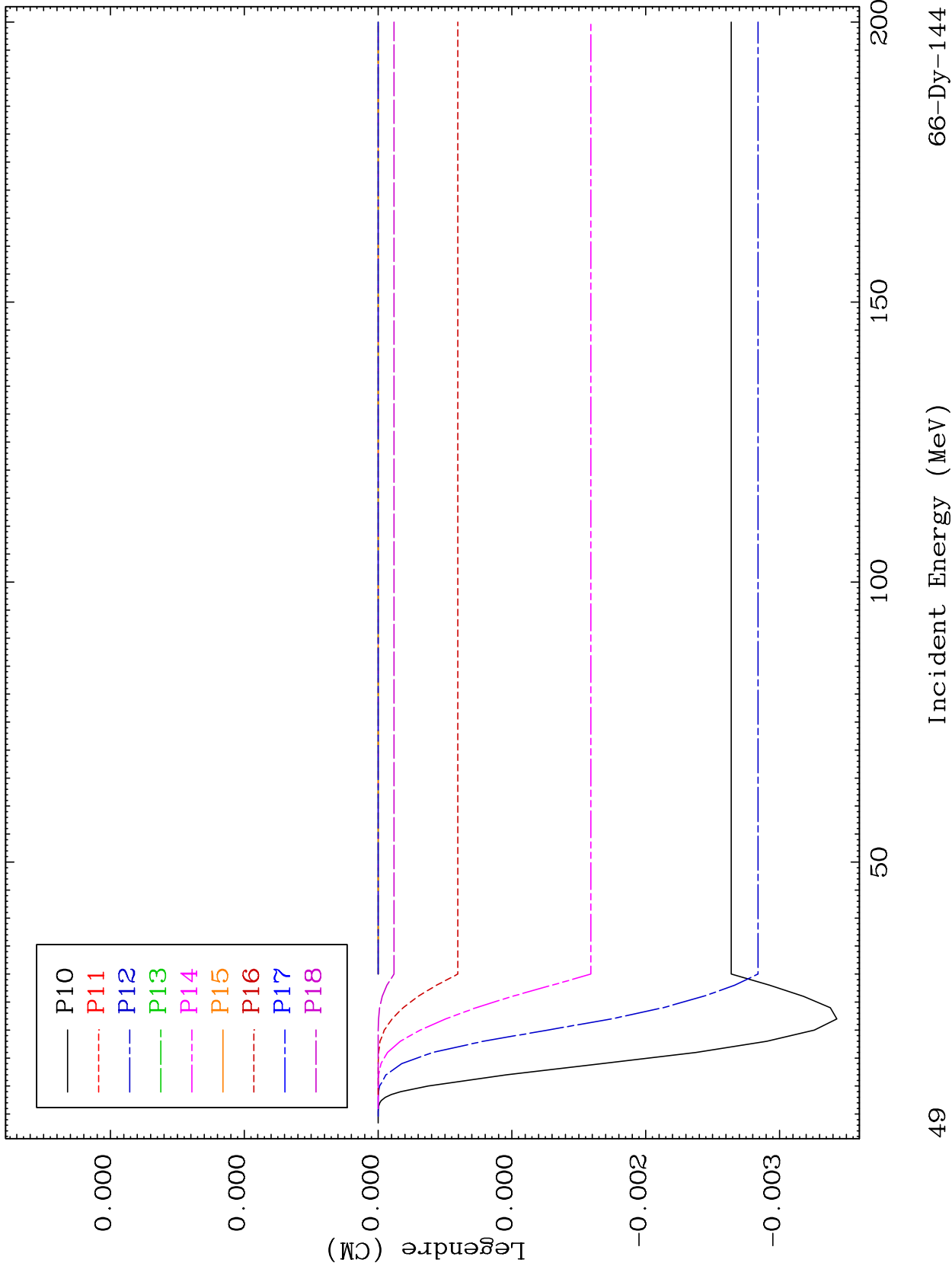
Incident Energy (MeV)

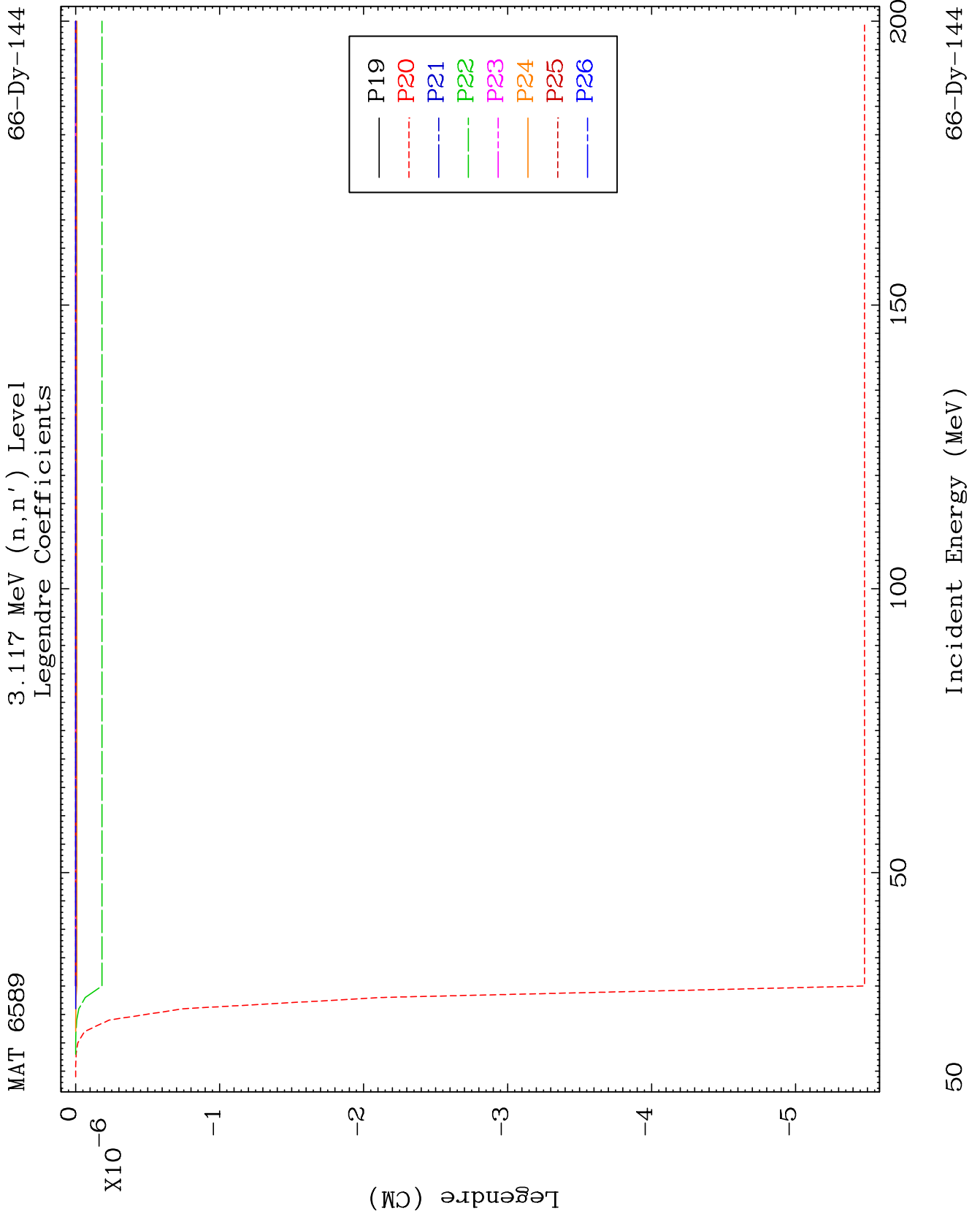
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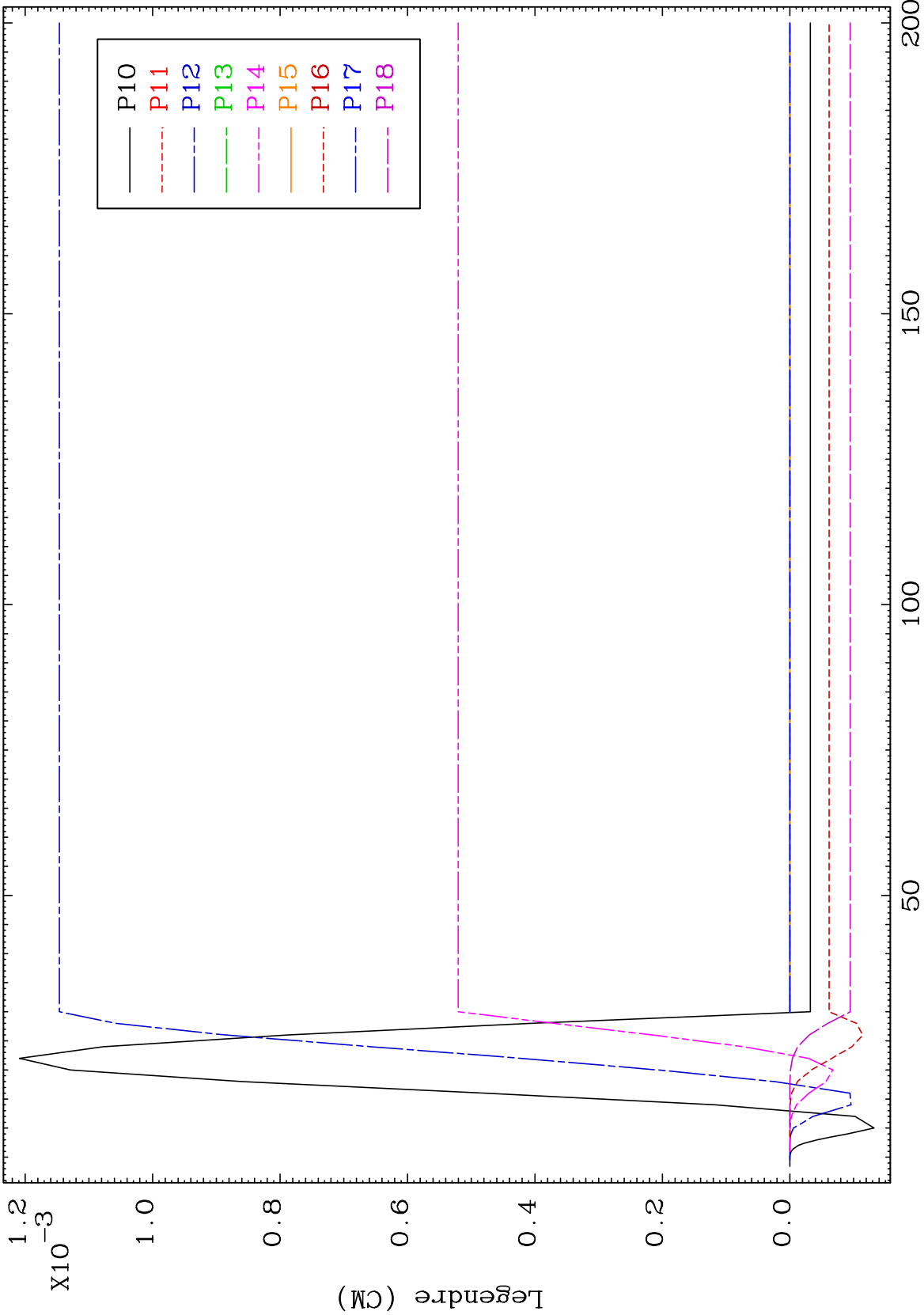


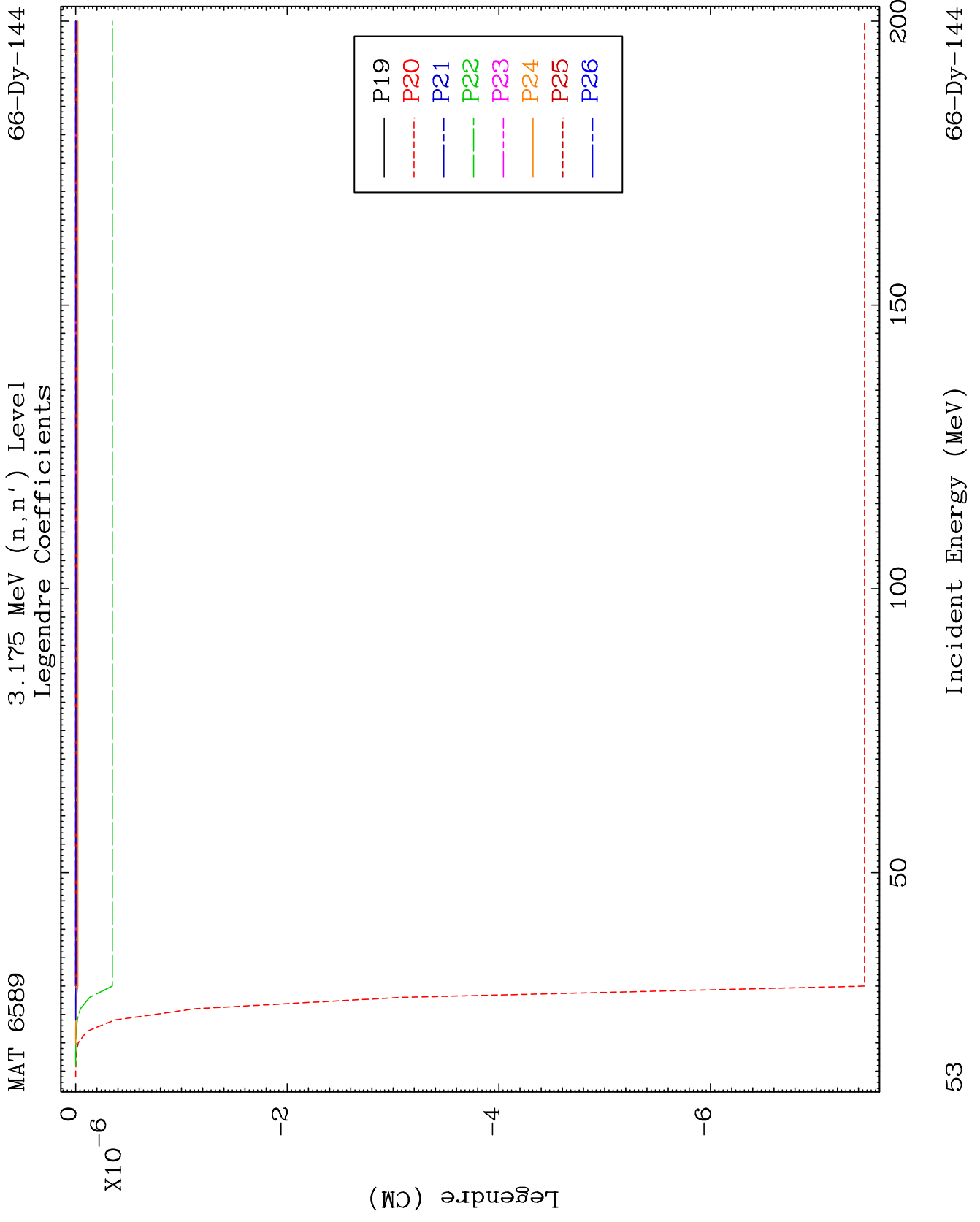








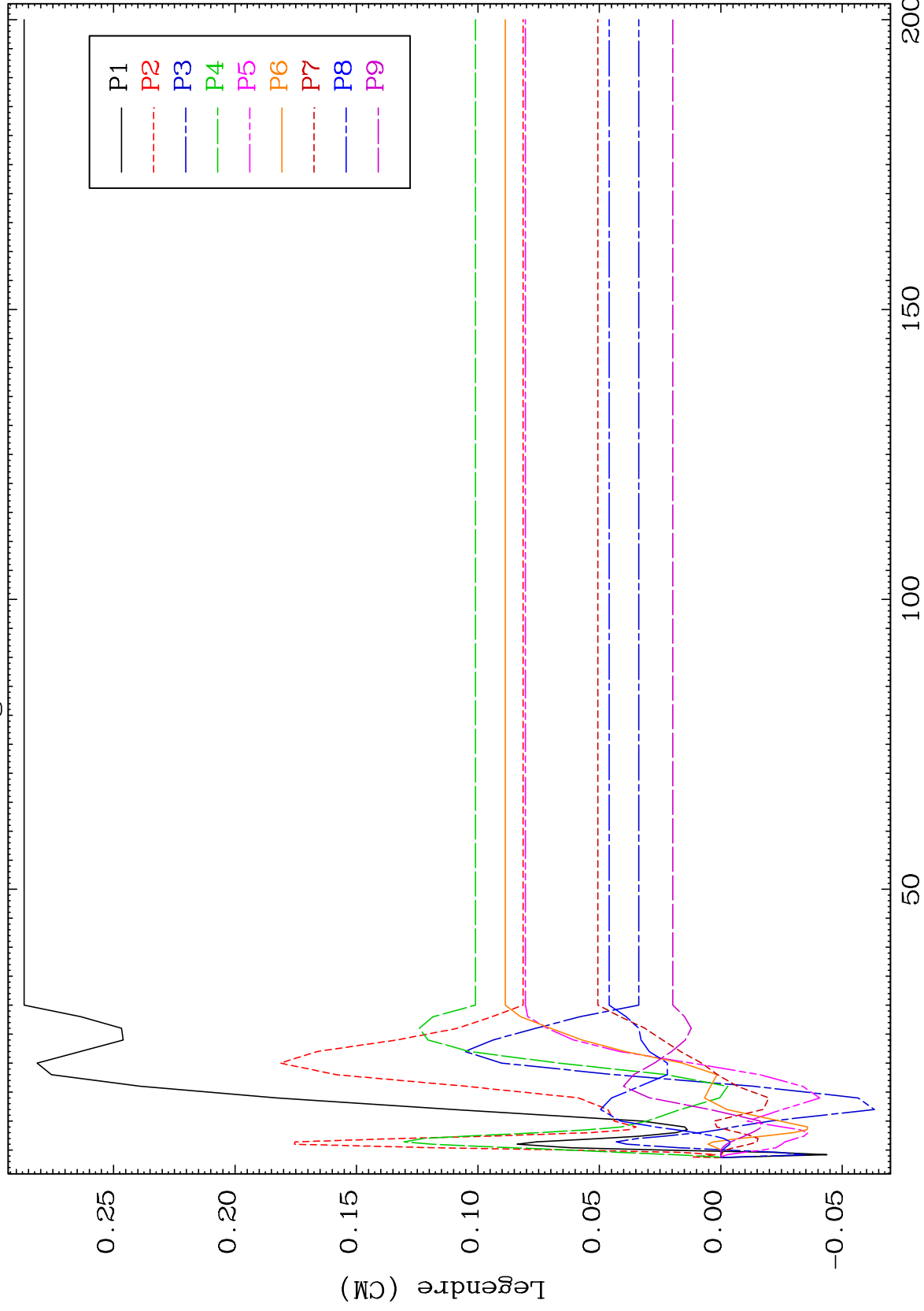




MAT 6589

3.656 MeV (n,n') Level  
Legendre Coefficients

66-Dy-144



54

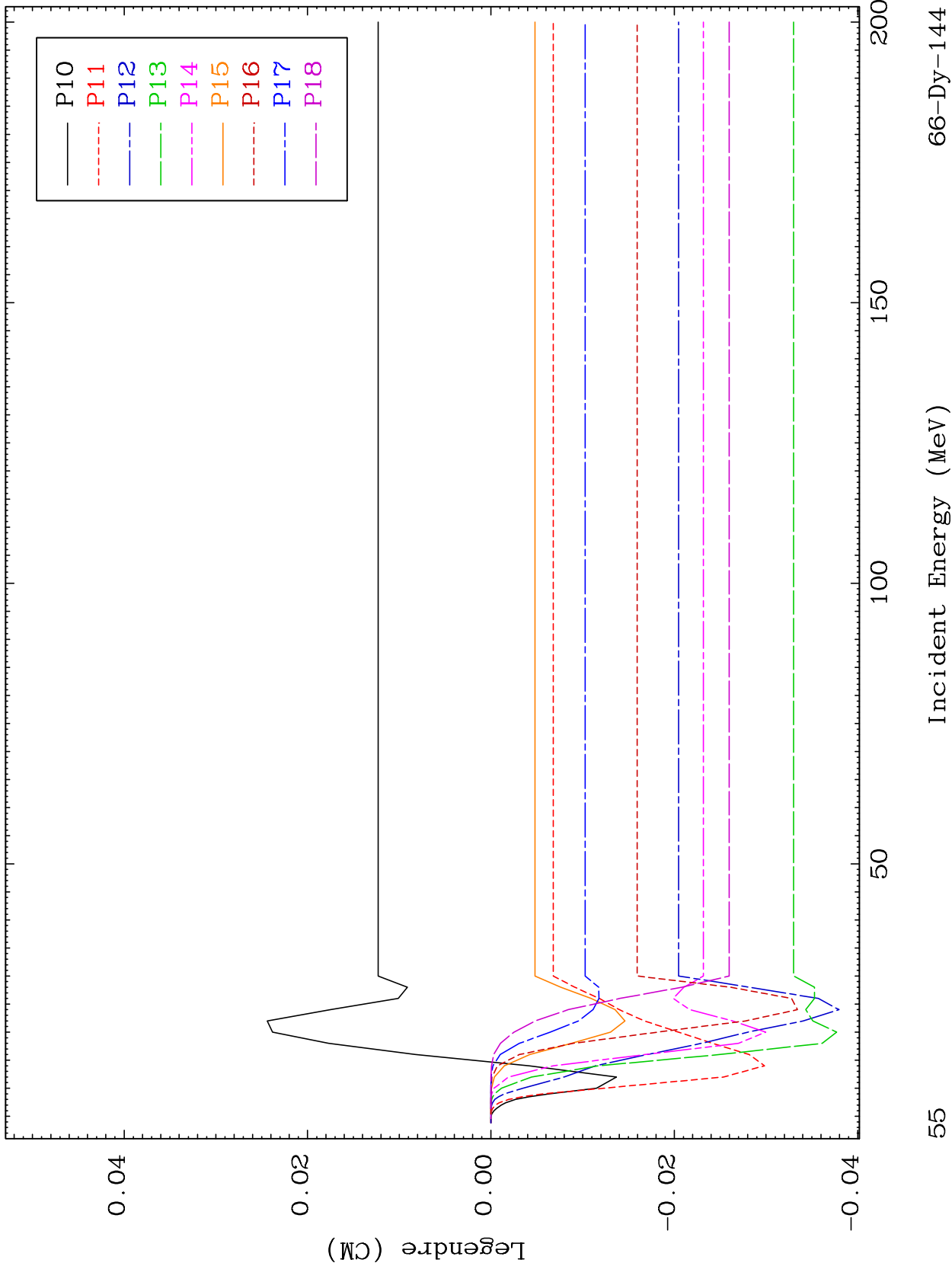
Incident Energy (MeV)

66-Dy-144

MAT 6589

3.656 MeV (n,n') Level  
Legendre Coefficients

66-Dy-144

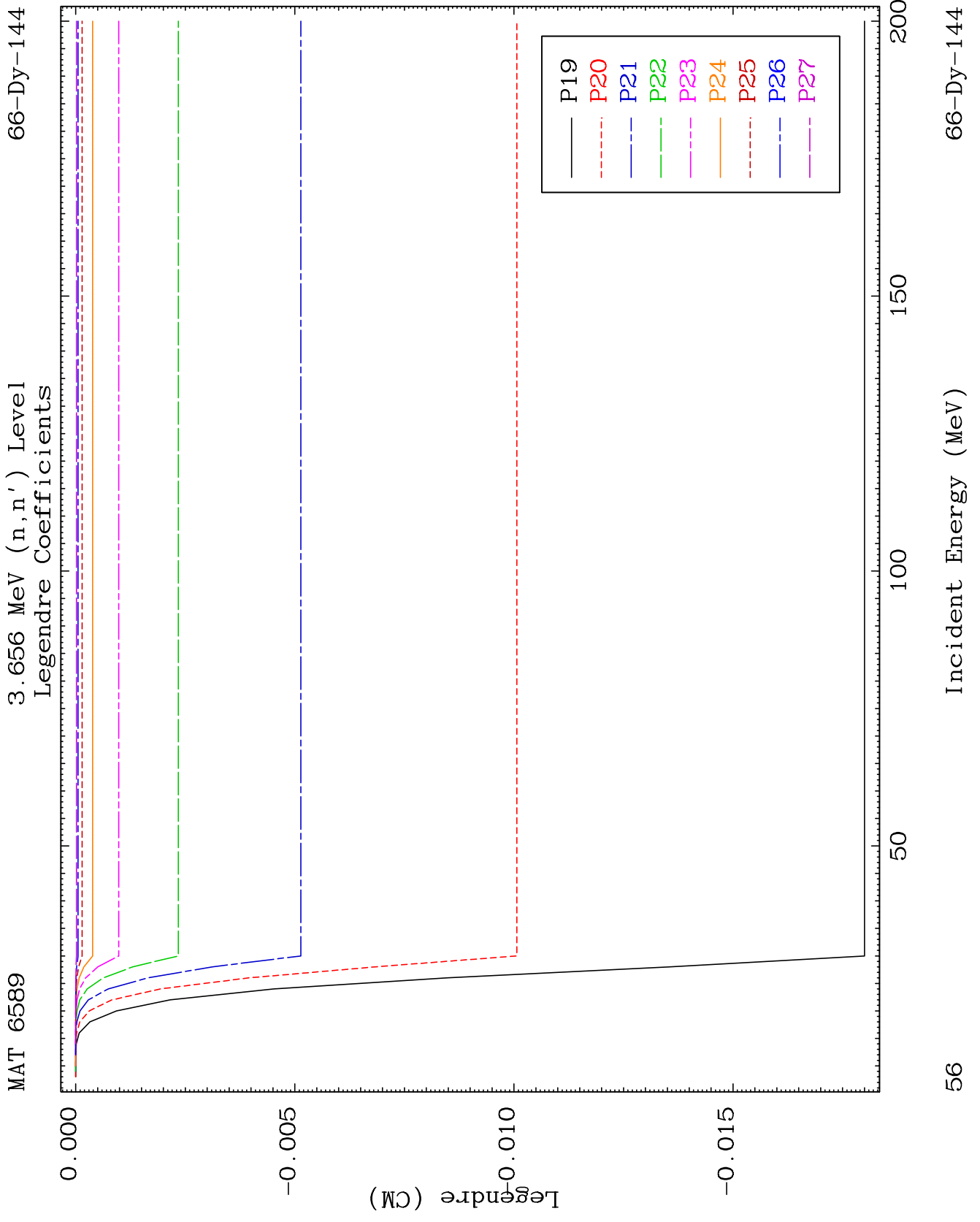


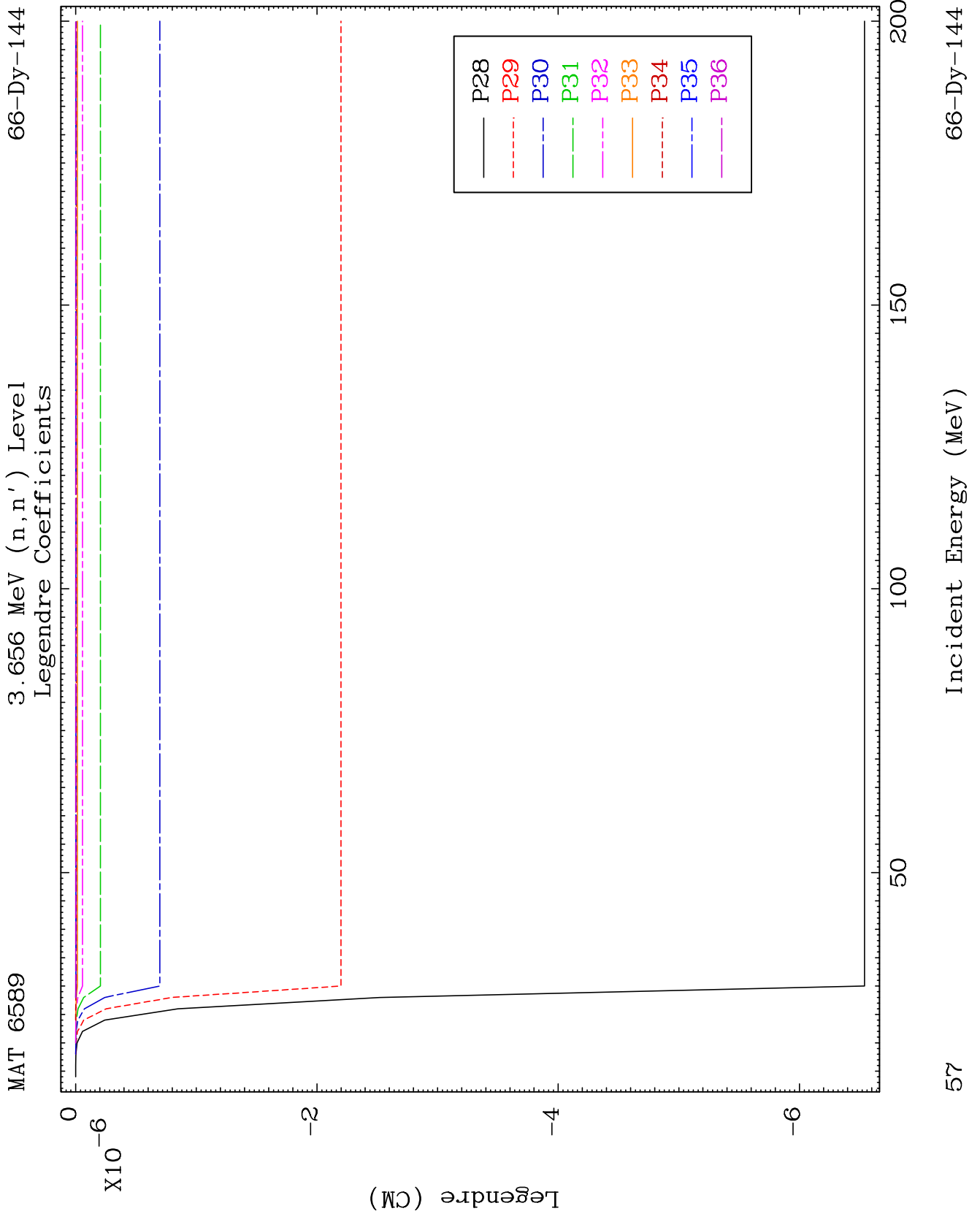
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Incident Energy (MeV)

66-Dy-144



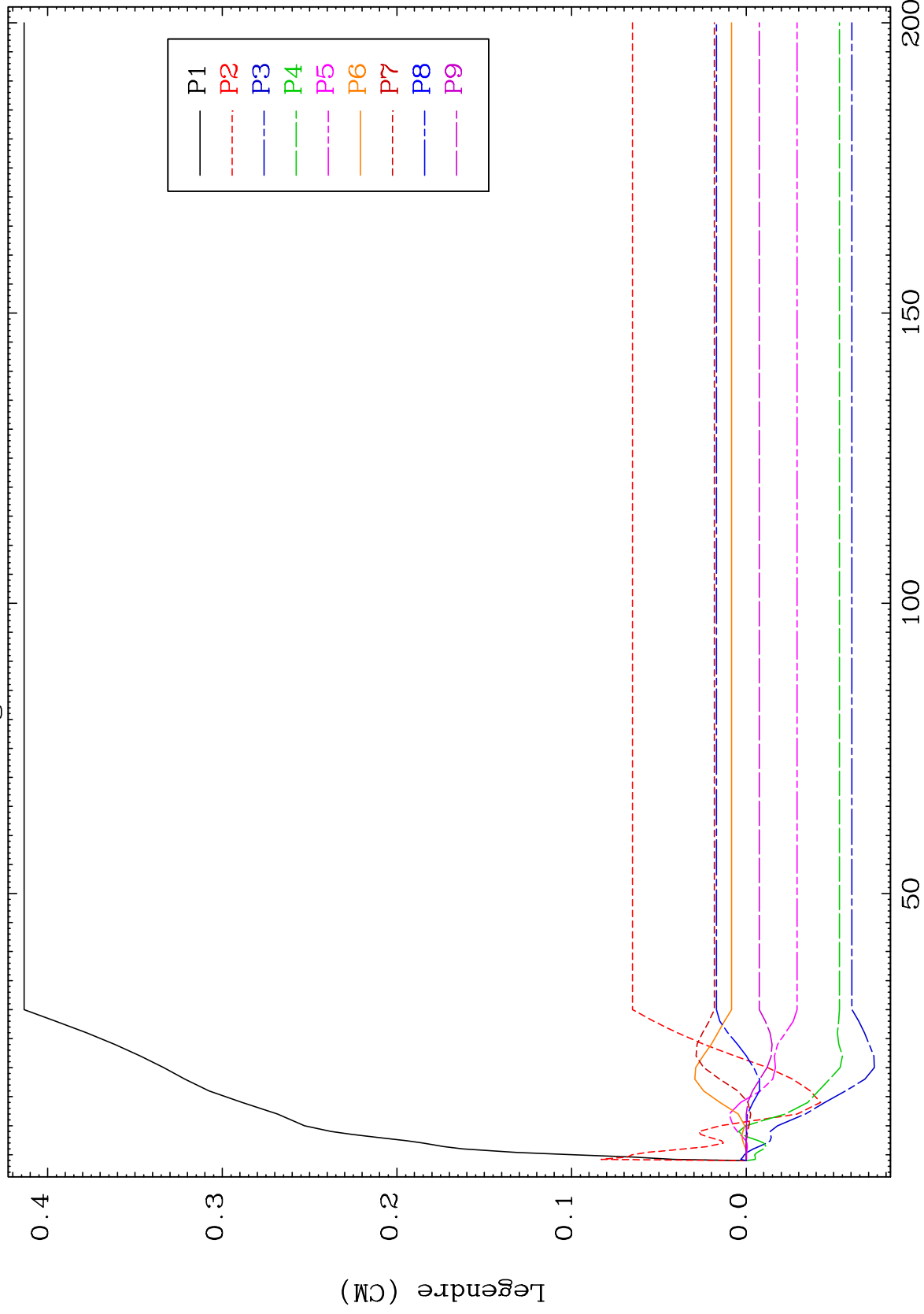




MAT 6589

3.937 MeV (n,n') Level  
Legendre Coefficients

66-Dy-144



58

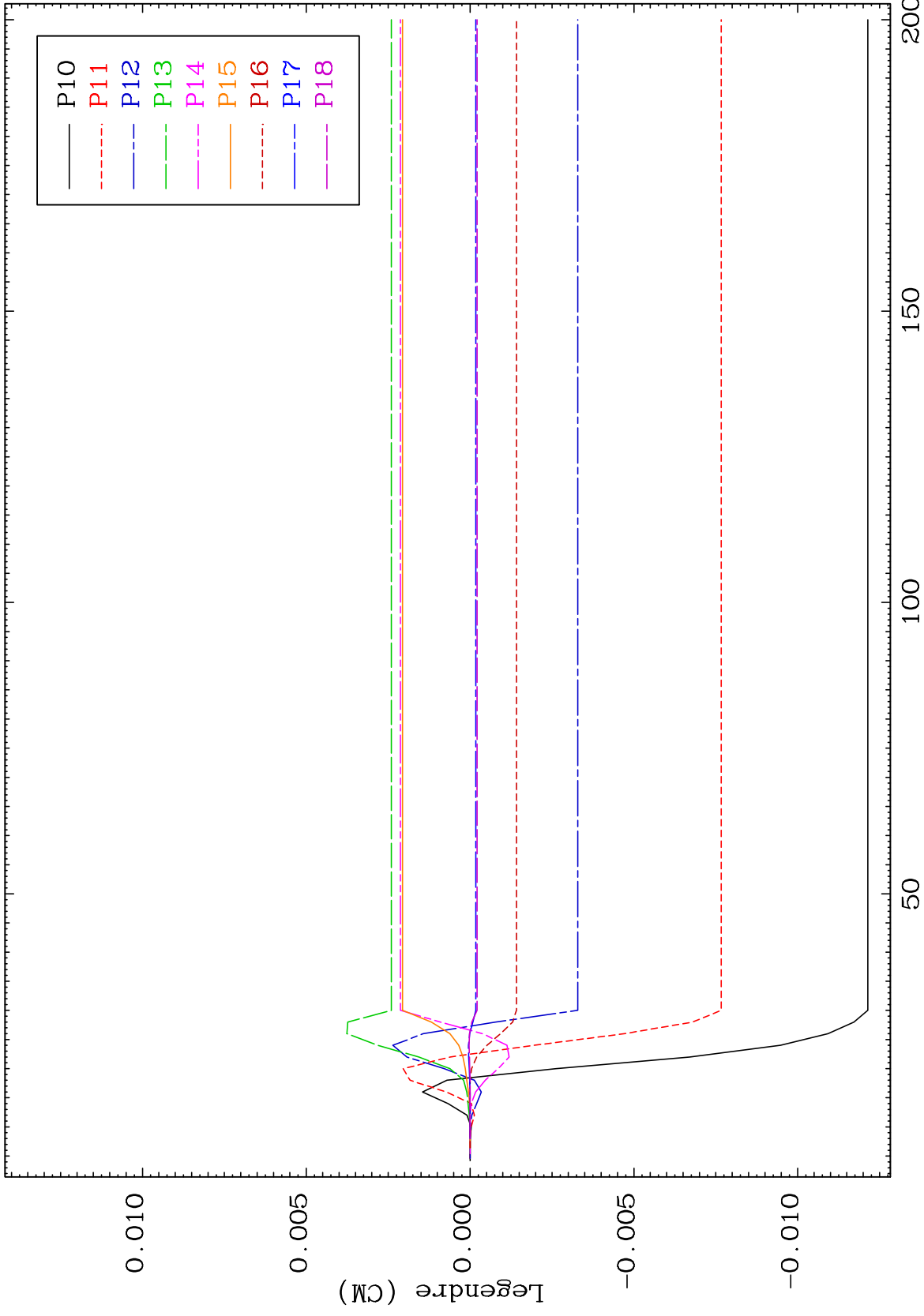
Incident Energy (MeV)

66-Dy-144

MAT 6589

3.937 MeV (n,n') Level  
Legendre Coefficients

66-Dy-144

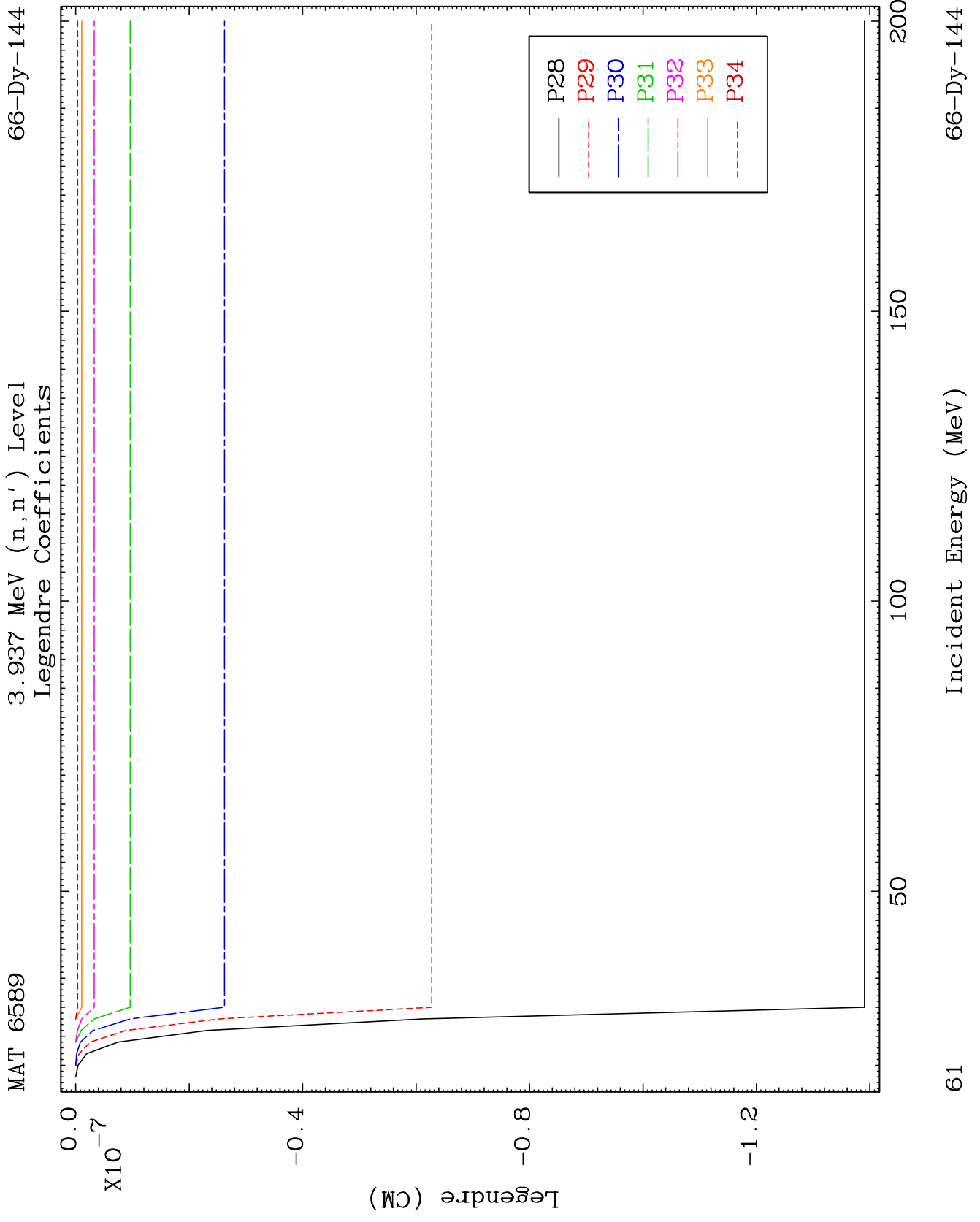


59

Incident Energy (MeV)

66-Dy-144

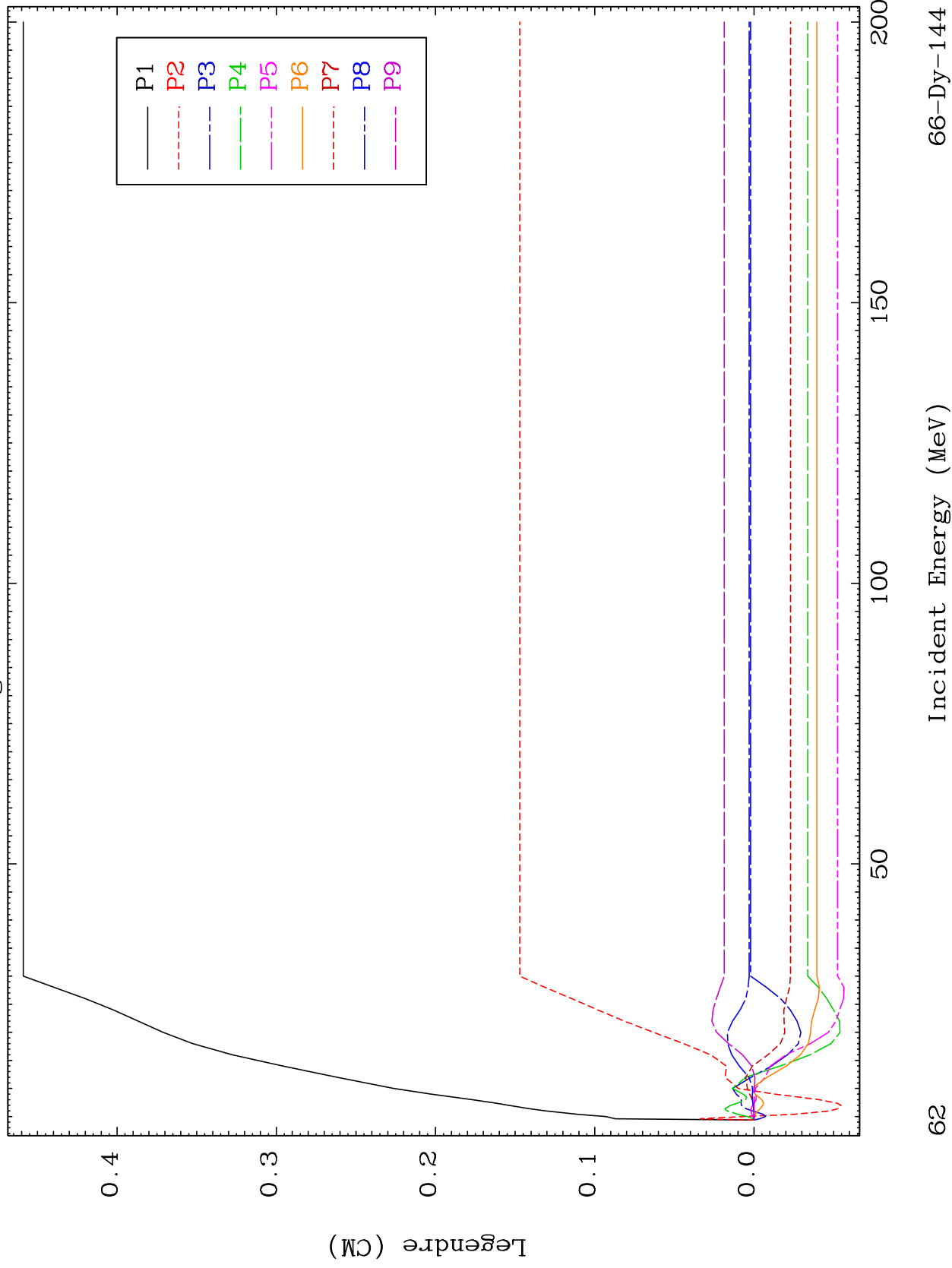




MAT 6589

4.335 MeV (n,n') Level  
Legendre Coefficients

66-Dy-144

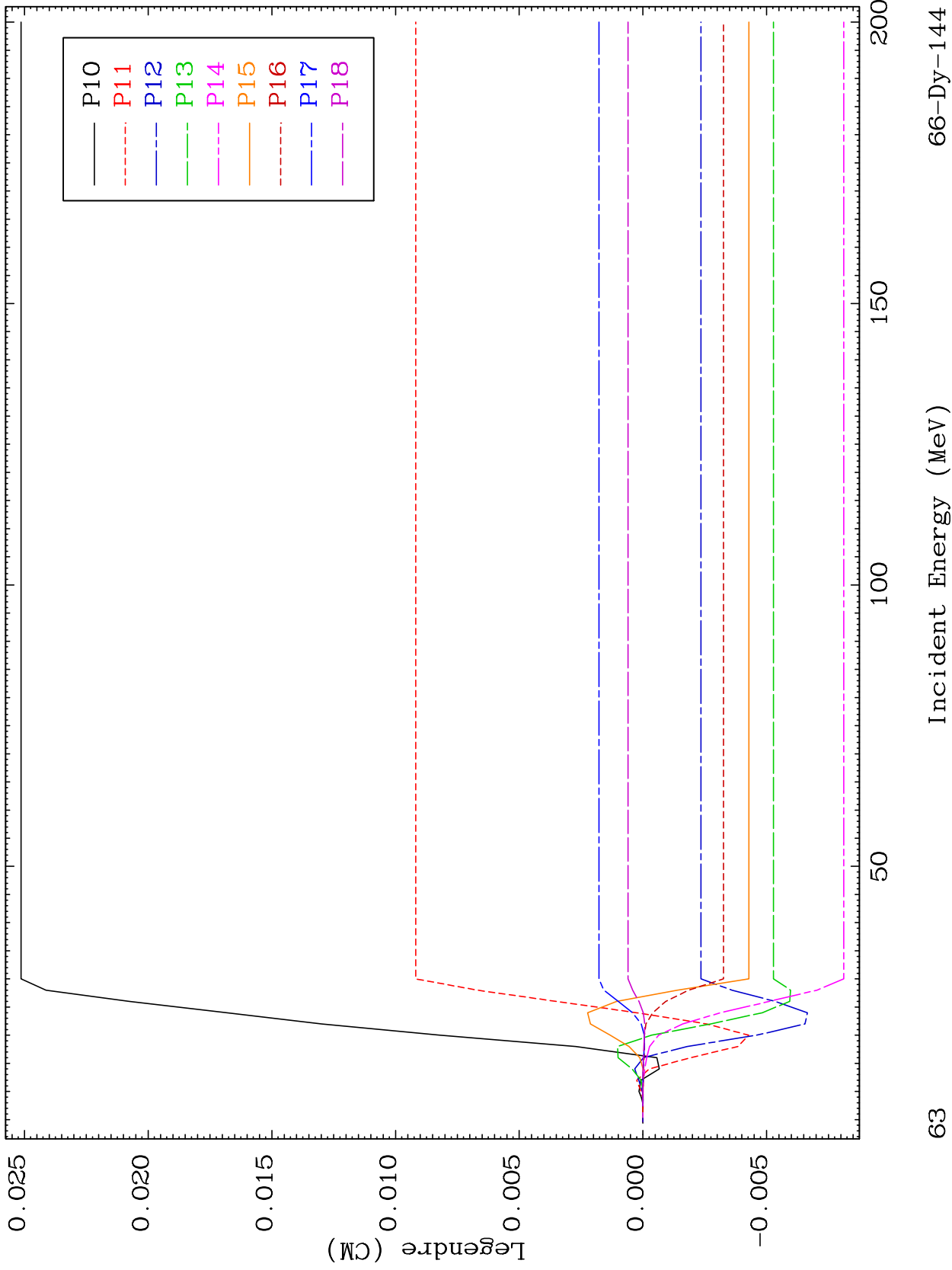


62

MAT 6589

4.335 MeV (n,n') Level  
Legendre Coefficients

66-Dy-144



63

Incident Energy (MeV)

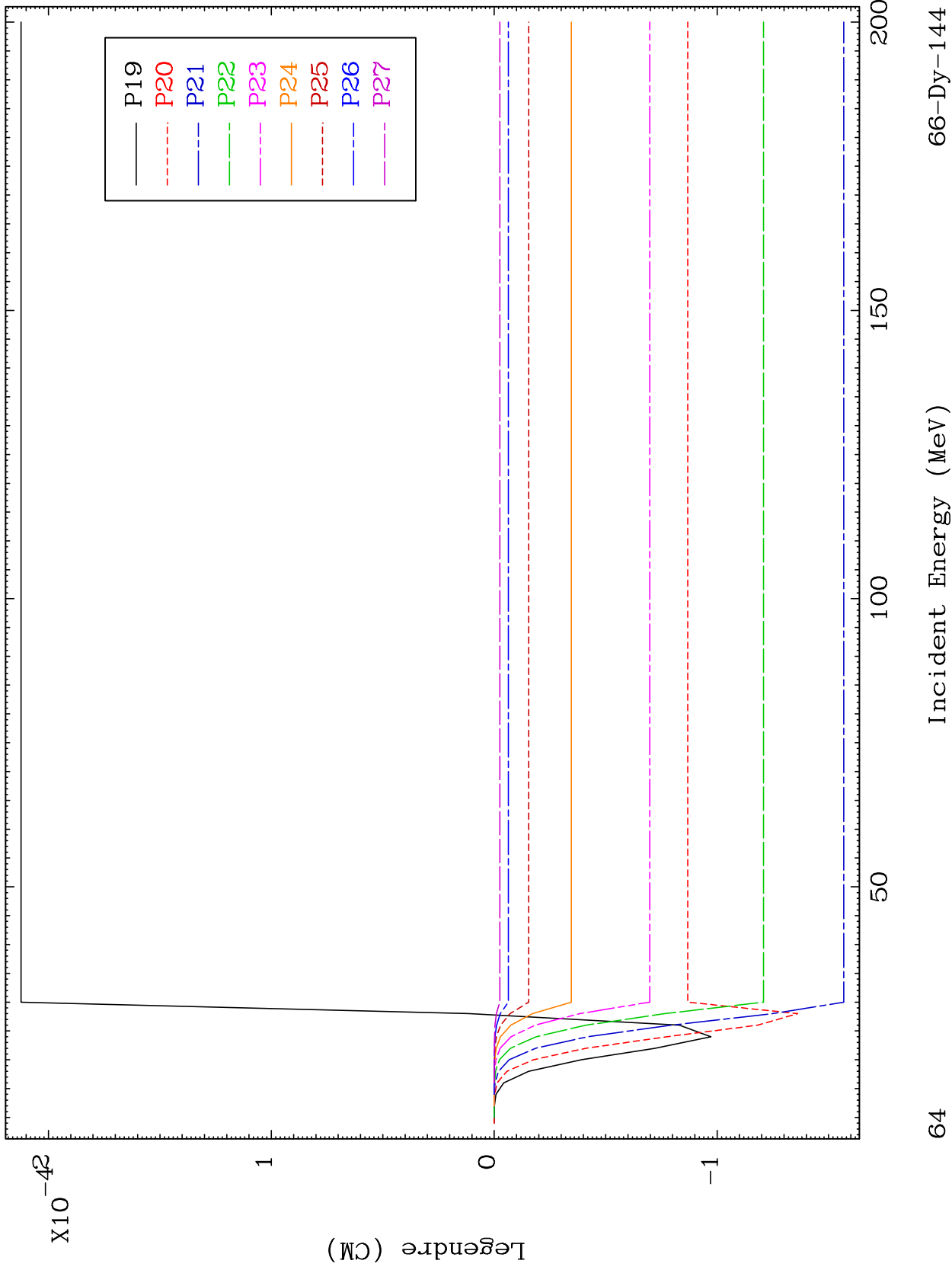
66-Dy-144



MAT 6589

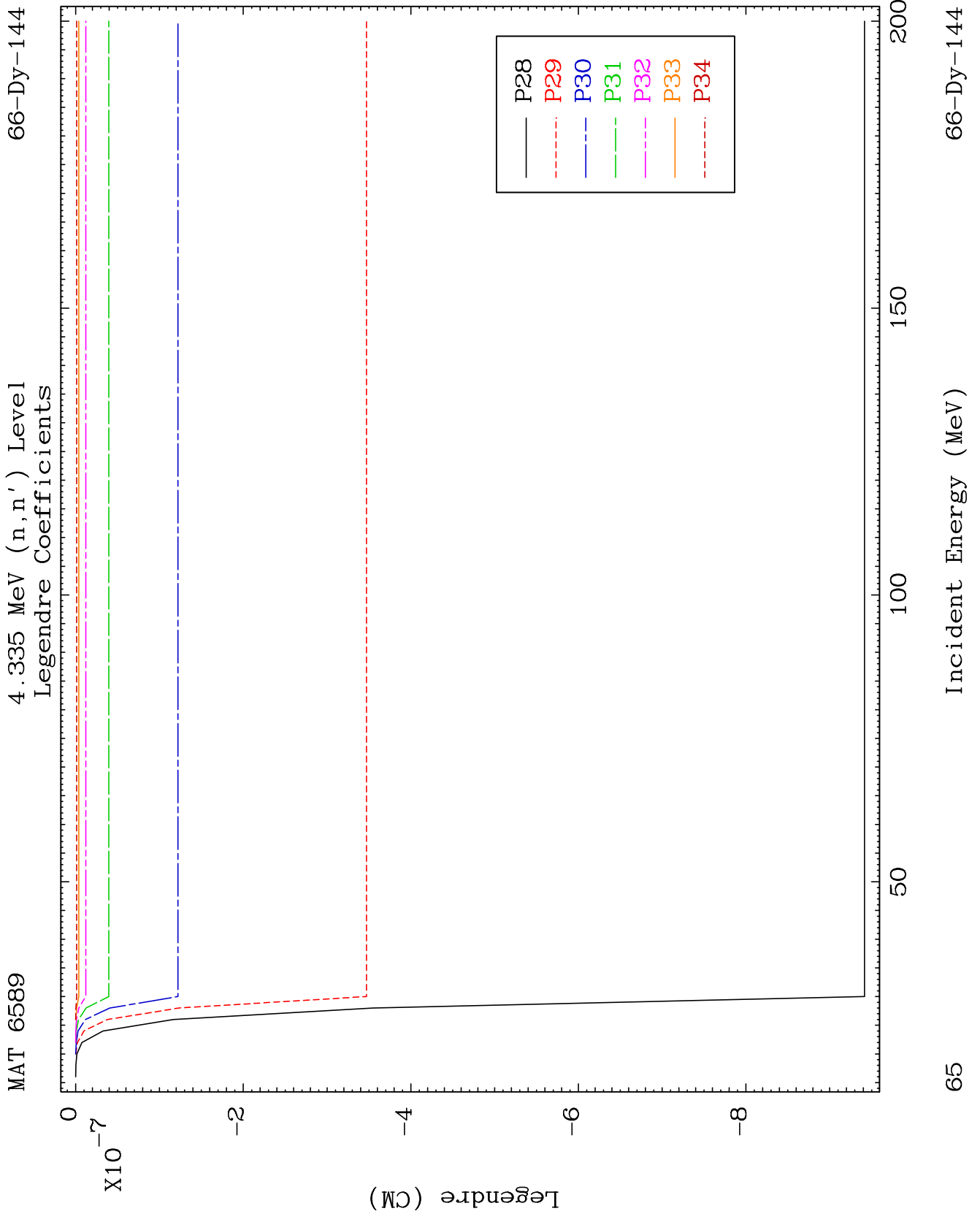
4.335 MeV (n,n') Level  
Legendre Coefficients

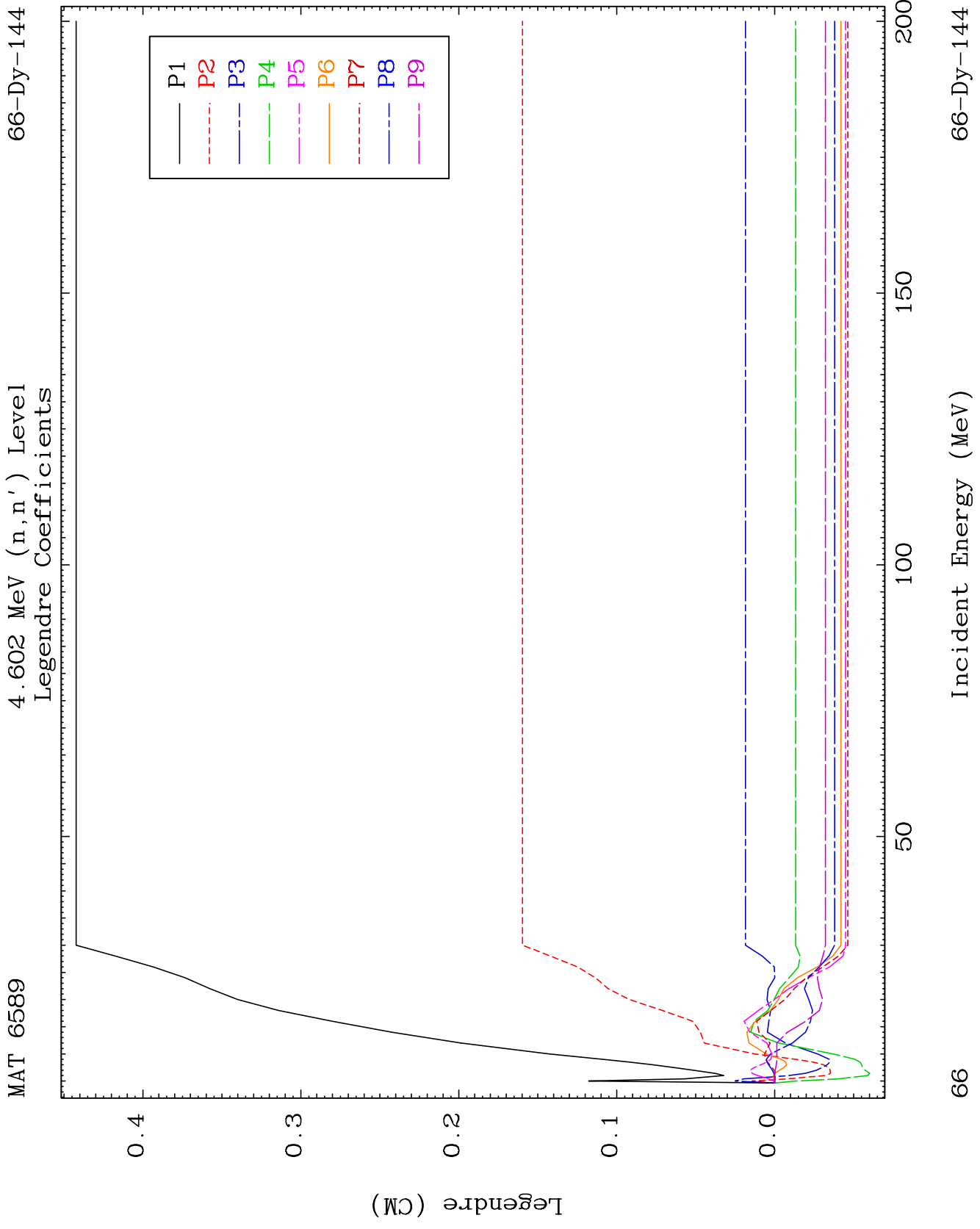
66-Dy-144



64

66-Dy-144

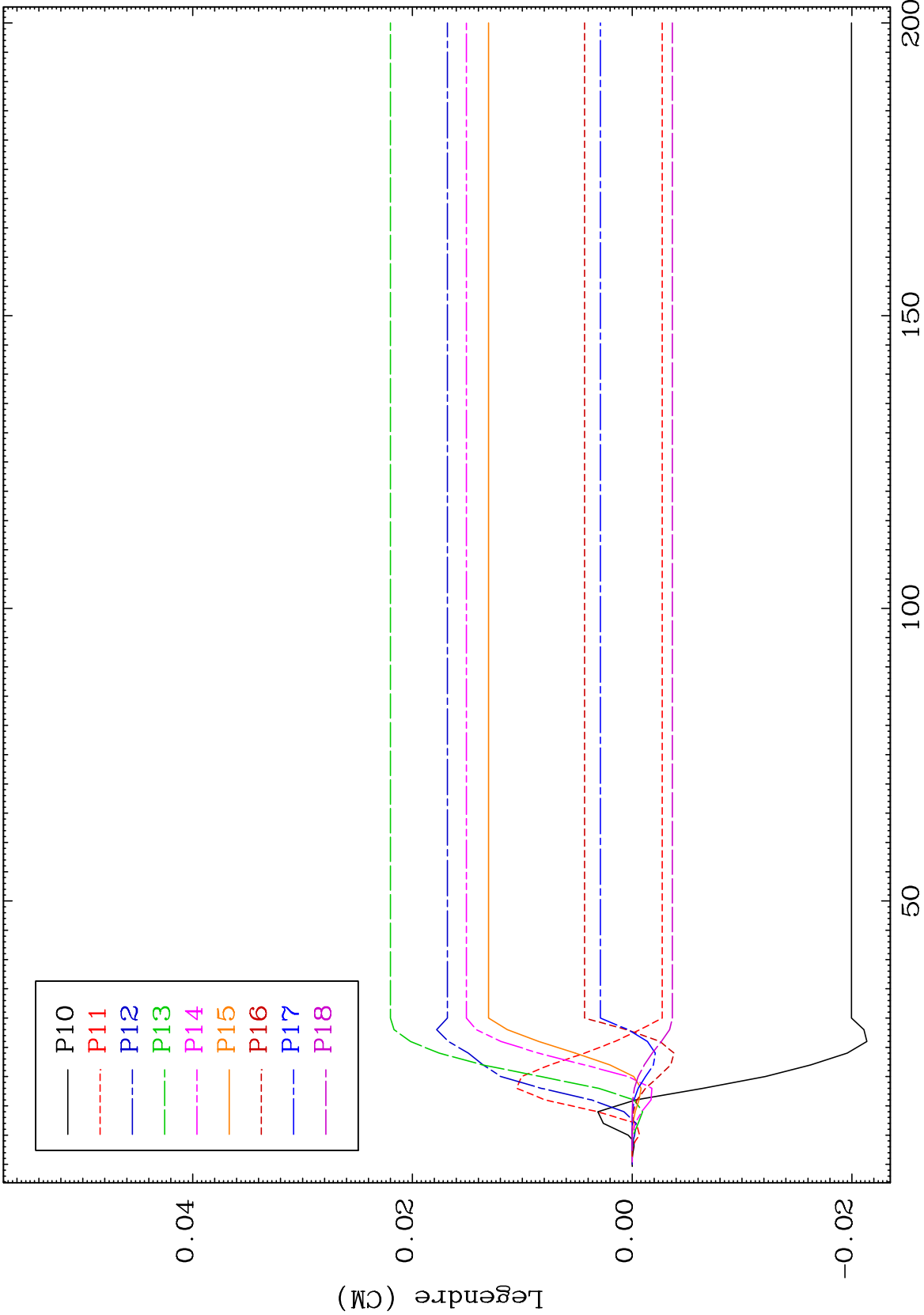




MAT 6589

4.602 MeV (n, n') Level  
Legendre Coefficients

66-Dy-144



67

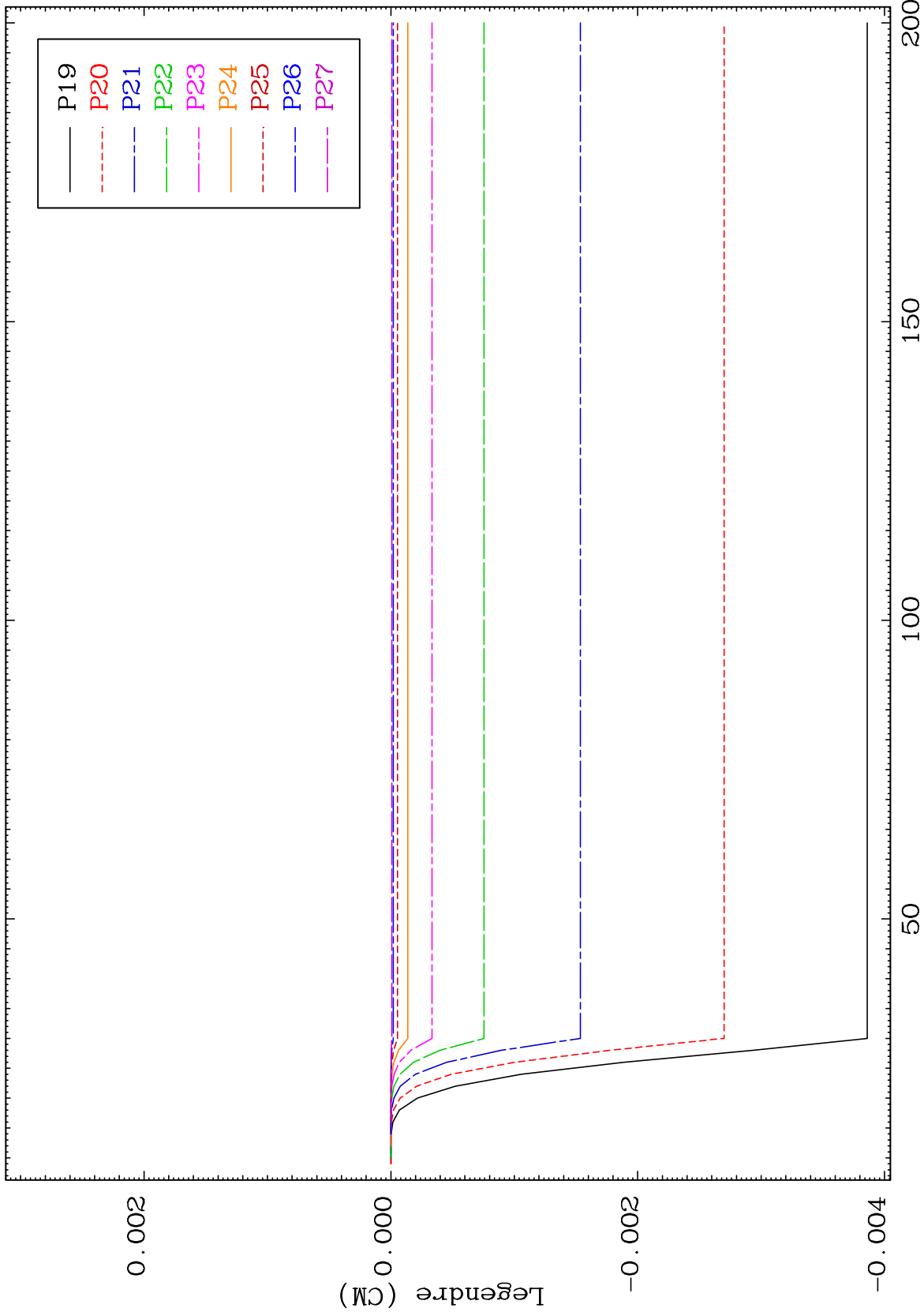
Incident Energy (MeV)

66-Dy-144

MAT 6589

4.602 MeV (n,n') Level  
Legendre Coefficients

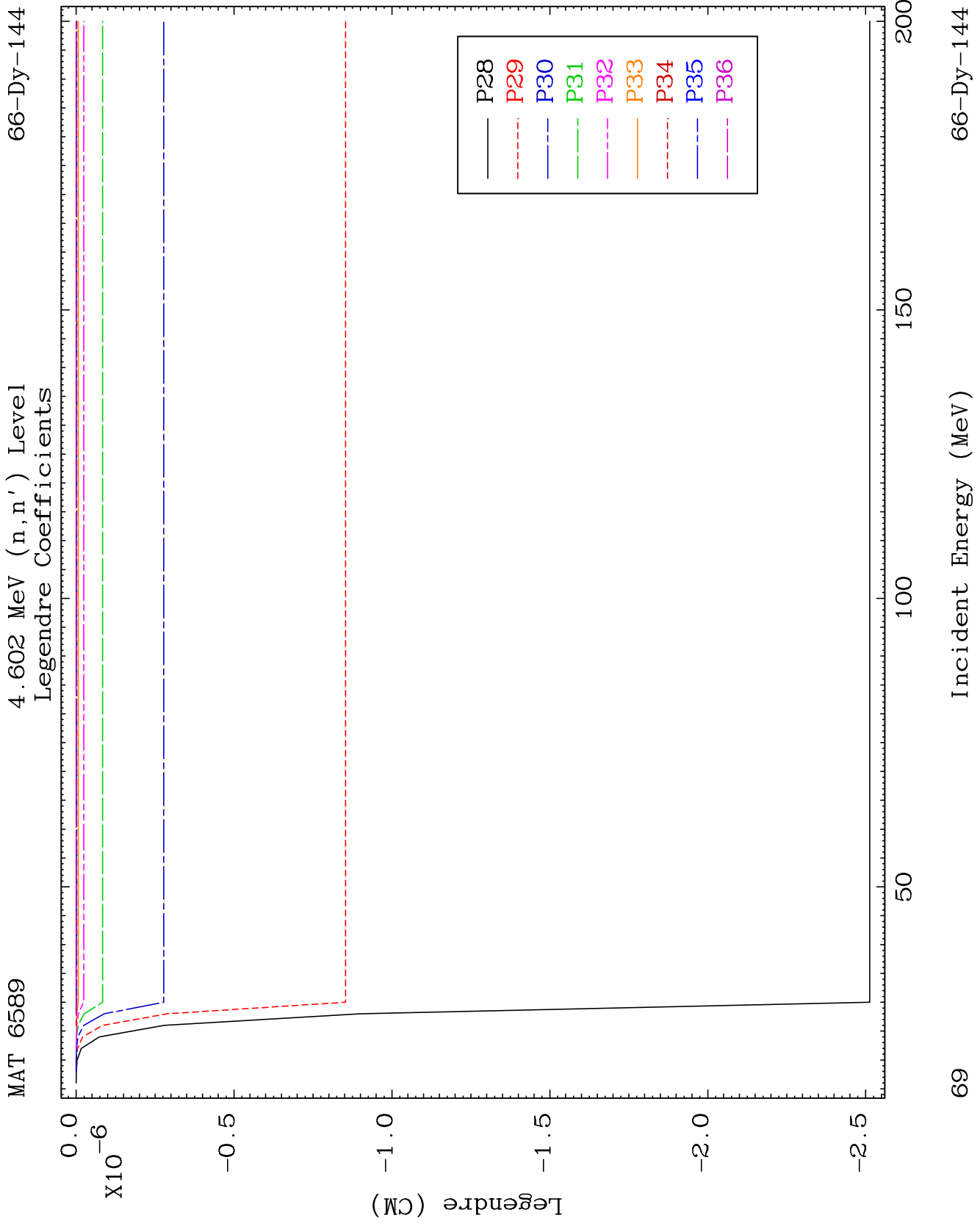
66-Dy-144



68

Incident Energy (MeV)

66-Dy-144

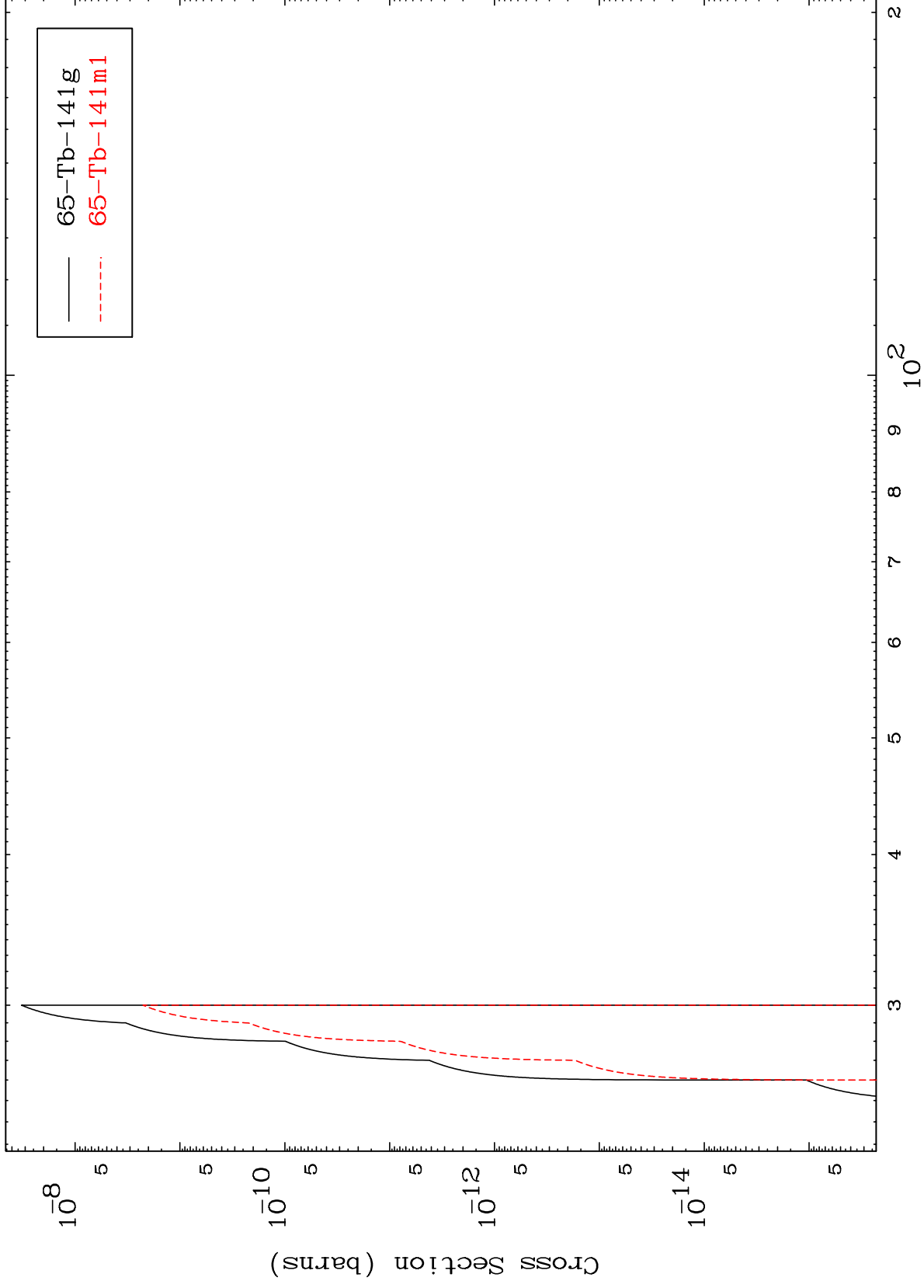


MAT 6589

(n,2n) d

66-Dy-144

Radionuclide Production Cross Section



70

Incident Energy (MeV)

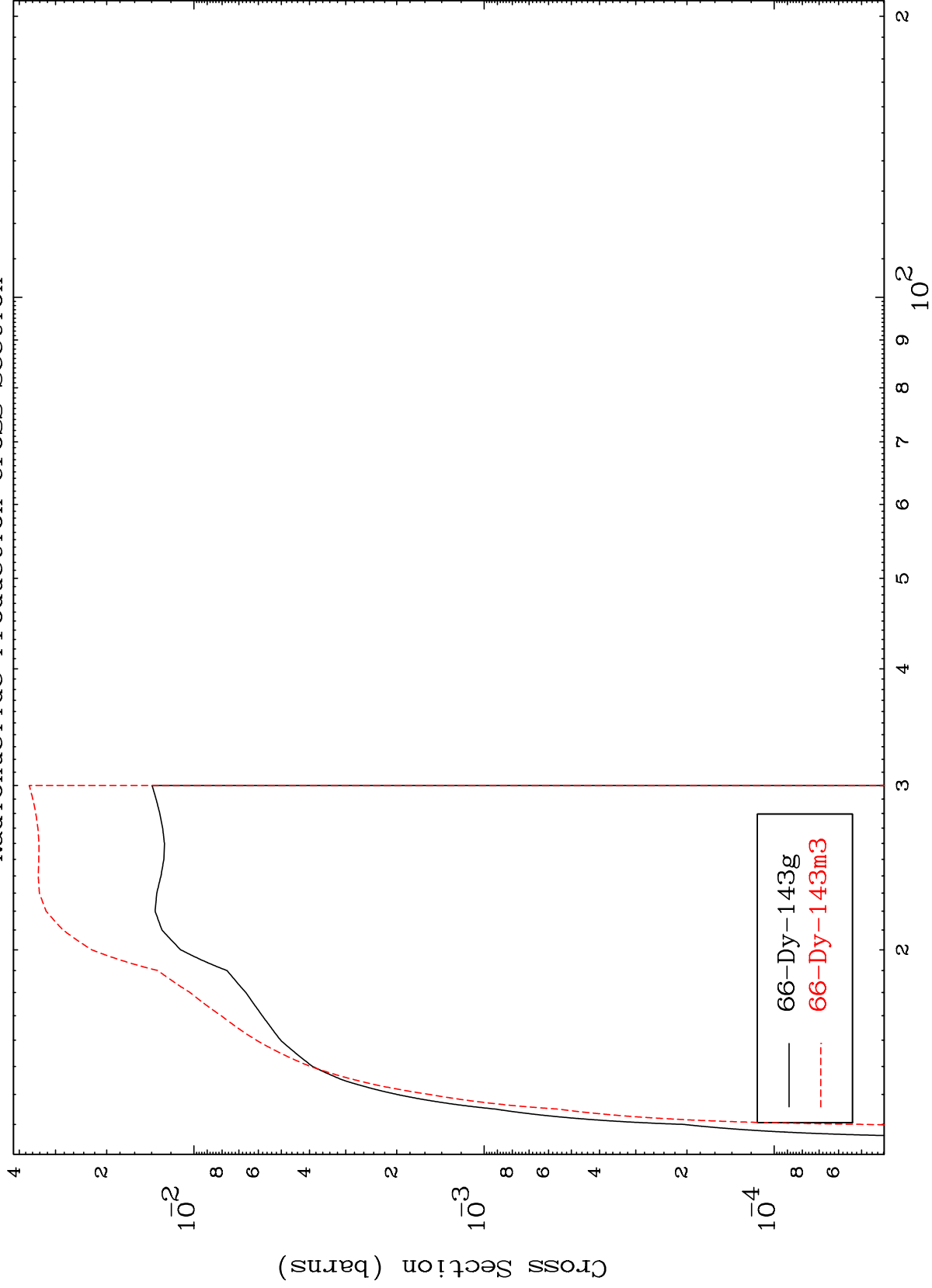
66-Dy-144

MAT 6589

(n,2n)

66-Dy-144

Radionuclide Production Cross Section



71

Incident Energy (MeV)

66-Dy-144

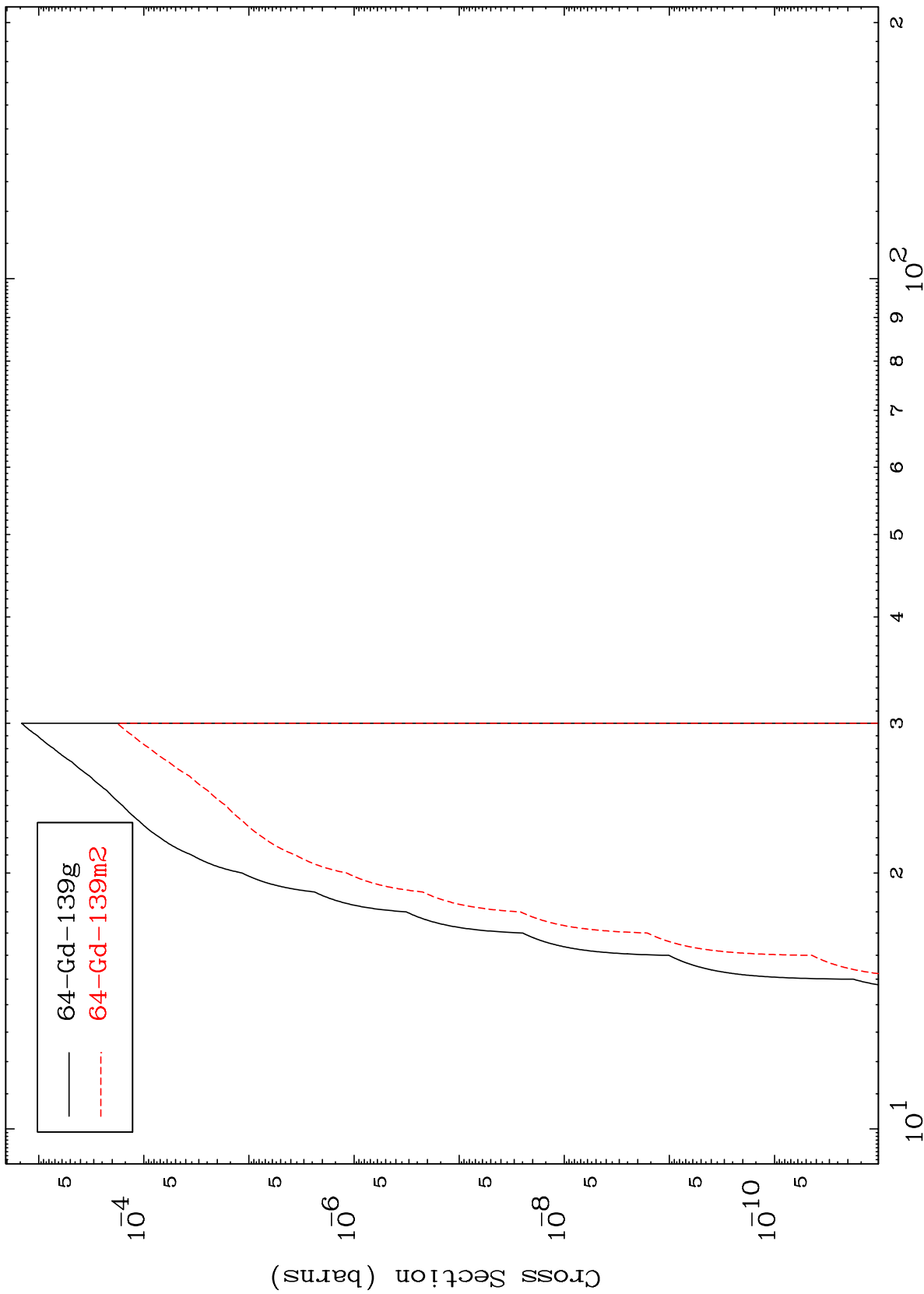


MAT 6589

(n,2n)  $\alpha$

66-Dy-144

Radionuclide Production Cross Section



72

Incident Energy (MeV)

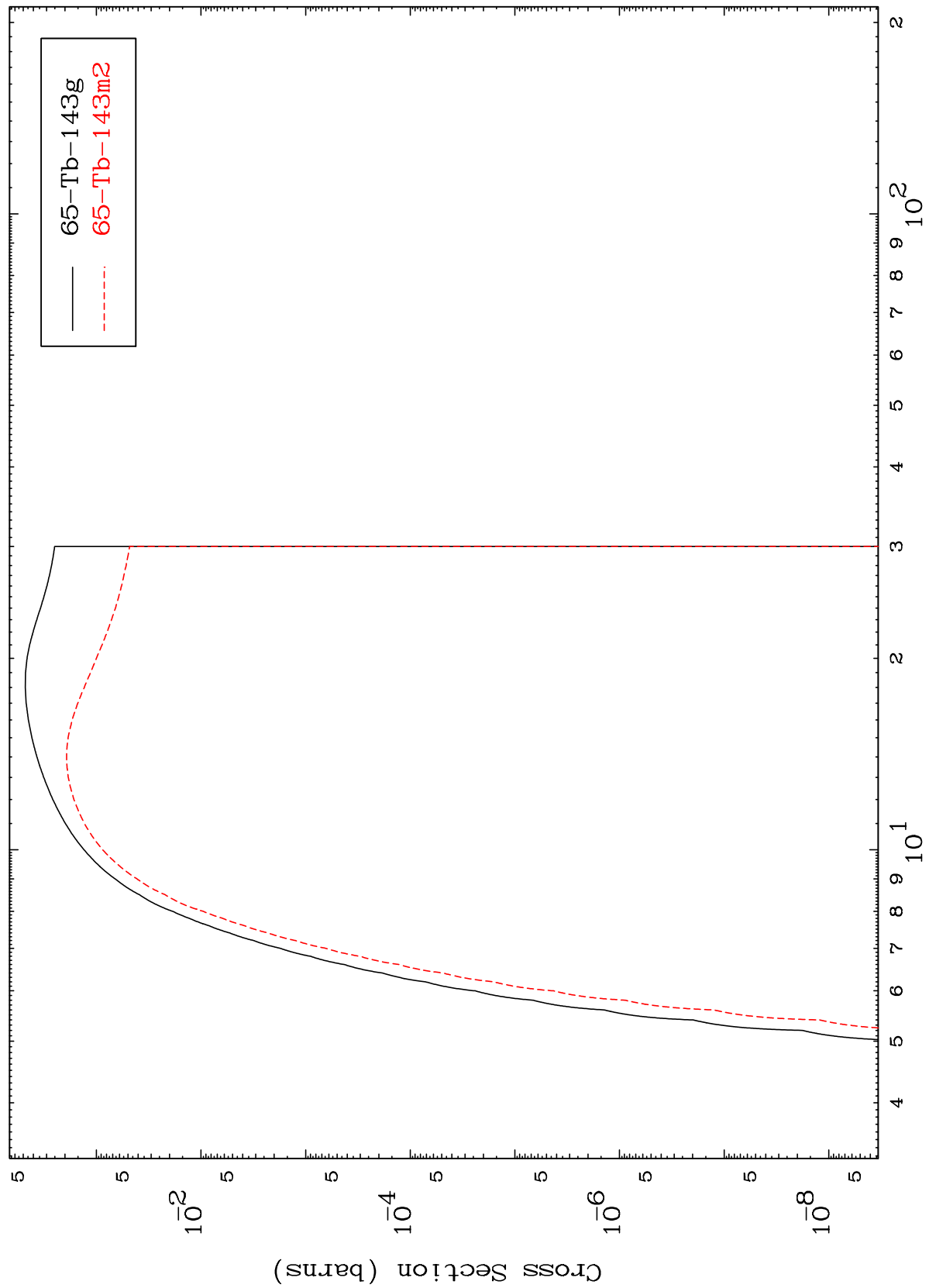
66-Dy-144

MAT 6589

(n,n') p

66-Dy-144

Radionuclide Production Cross Section



65-Tb-143g  
65-Tb-143m2

73

Incident Energy (MeV)

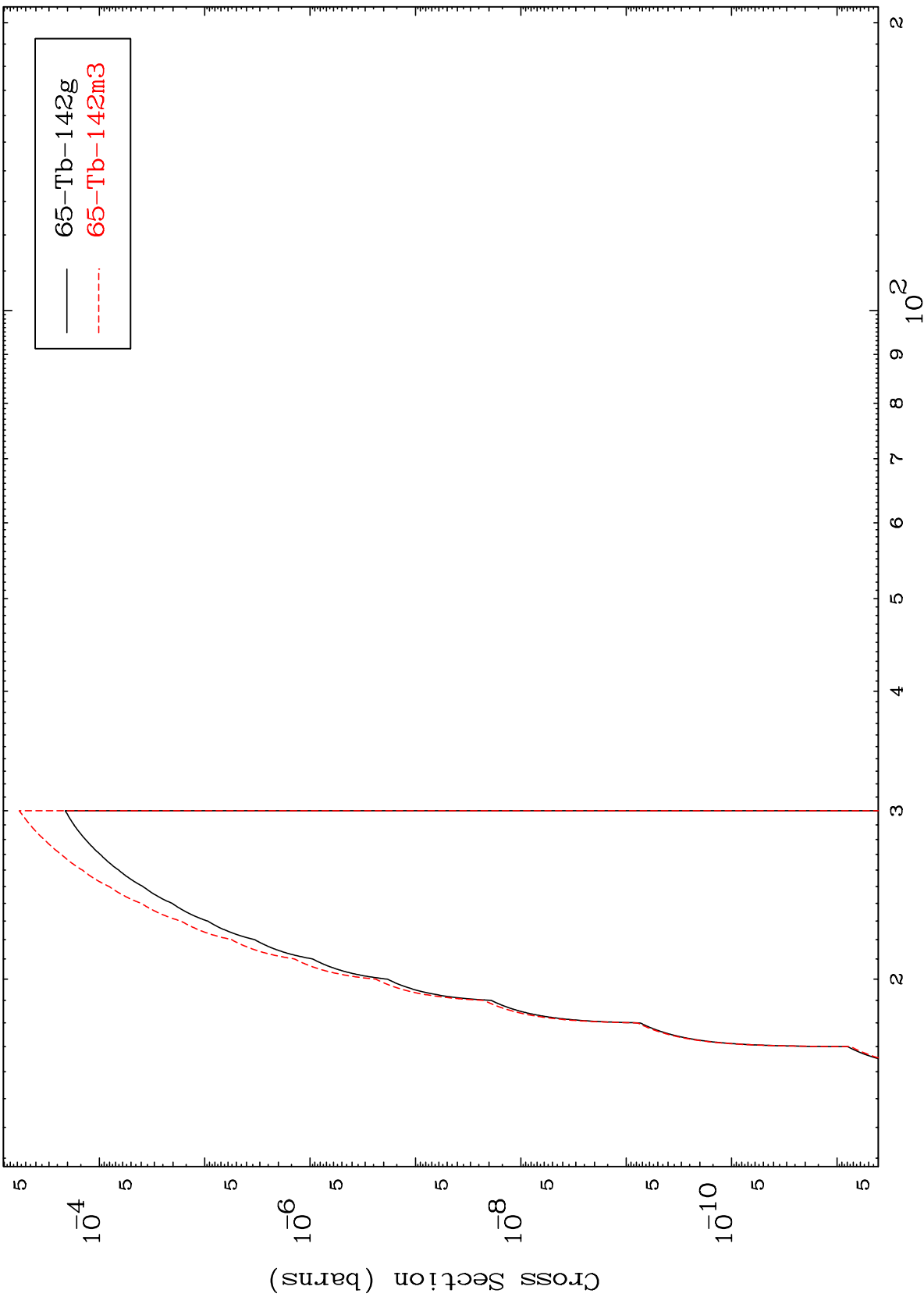
66-Dy-144

MAT 6589

(n,n') d

66-Dy-144

Radionuclide Production Cross Section



65-Tb-142g  
65-Tb-142m3

74

Incident Energy (MeV)

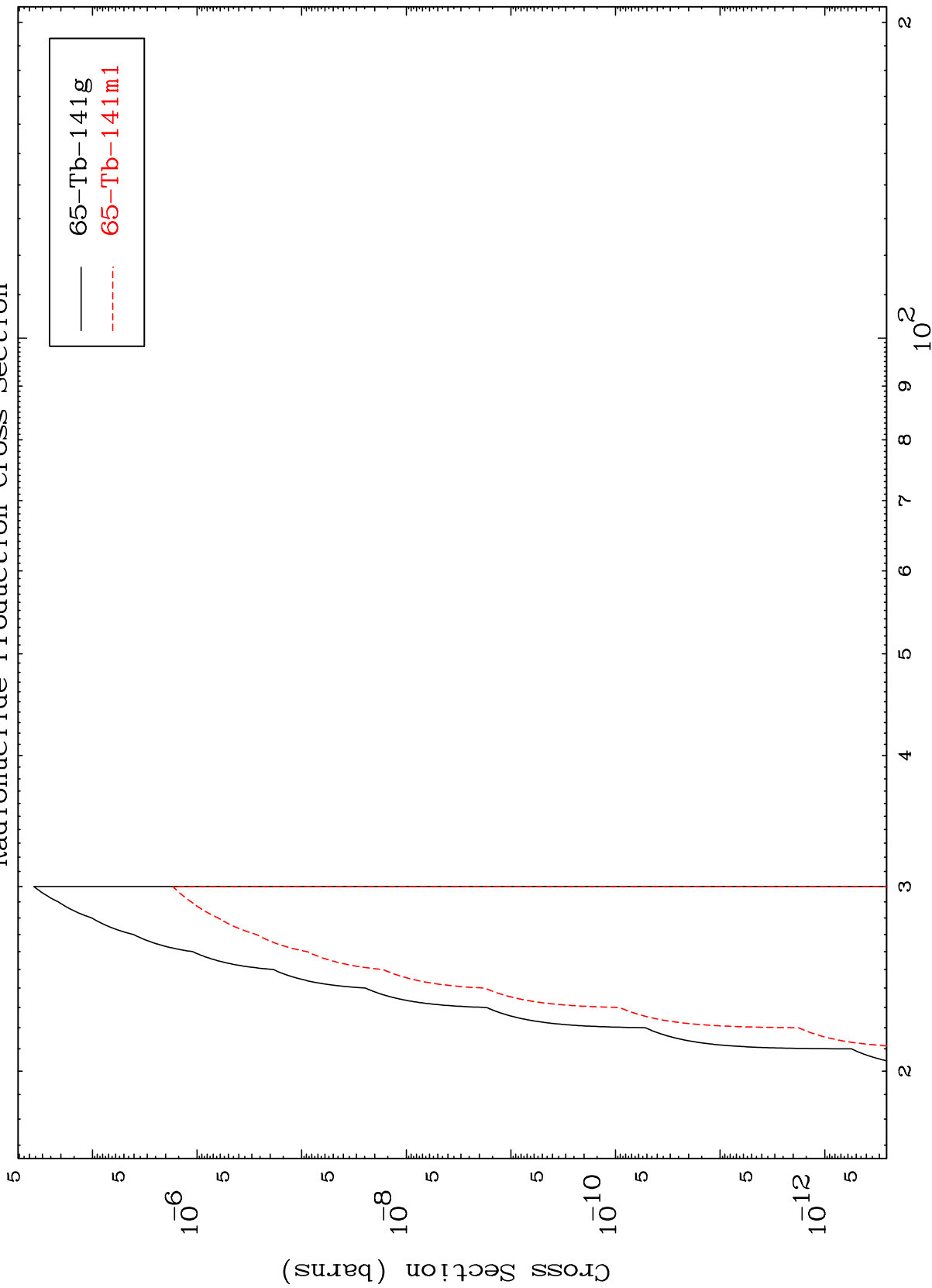
66-Dy-144

MAT 6589

(n,n') t

66-Dy-144

Radionuclide Production Cross Section



75

Incident Energy (MeV)

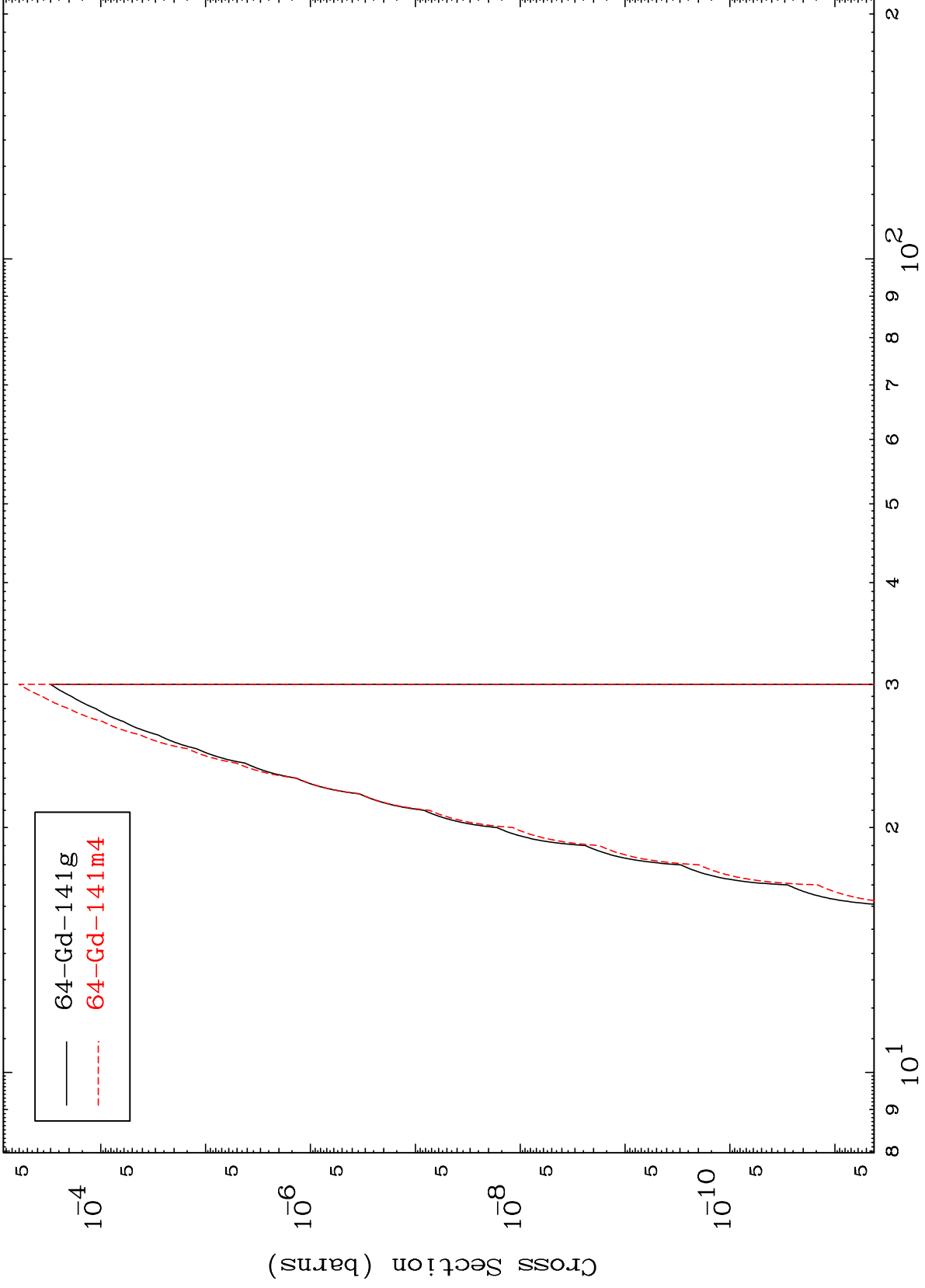
66-Dy-144

MAT 6589

(n,n') He-3

66-Dy-144

Radionuclide Production Cross Section



76

Incident Energy (MeV)

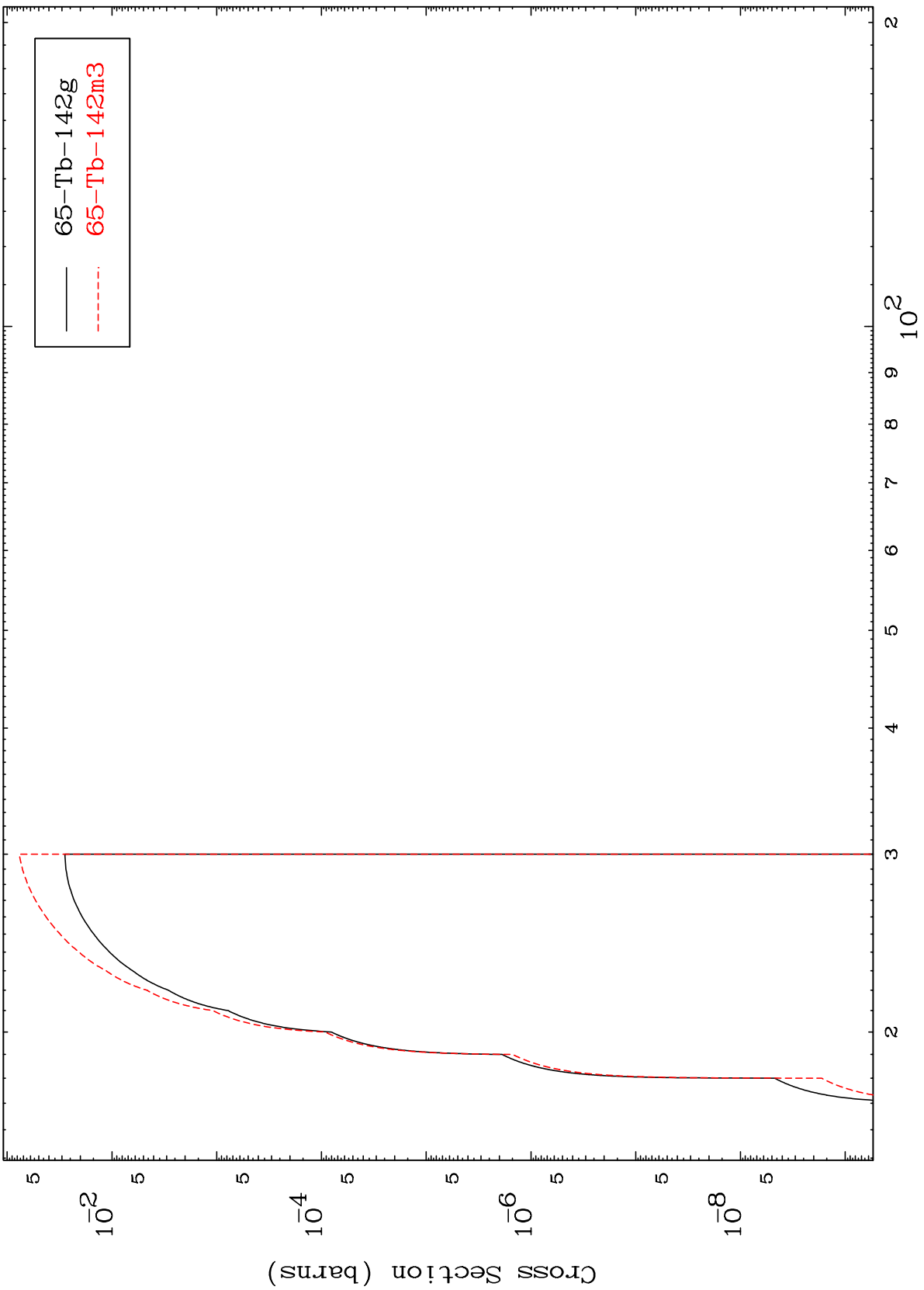
66-Dy-144

MAT 6589

(n,2n) p

66-Dy-144

Radionuclide Production Cross Section



65-Tb-142g  
65-Tb-142m3

77

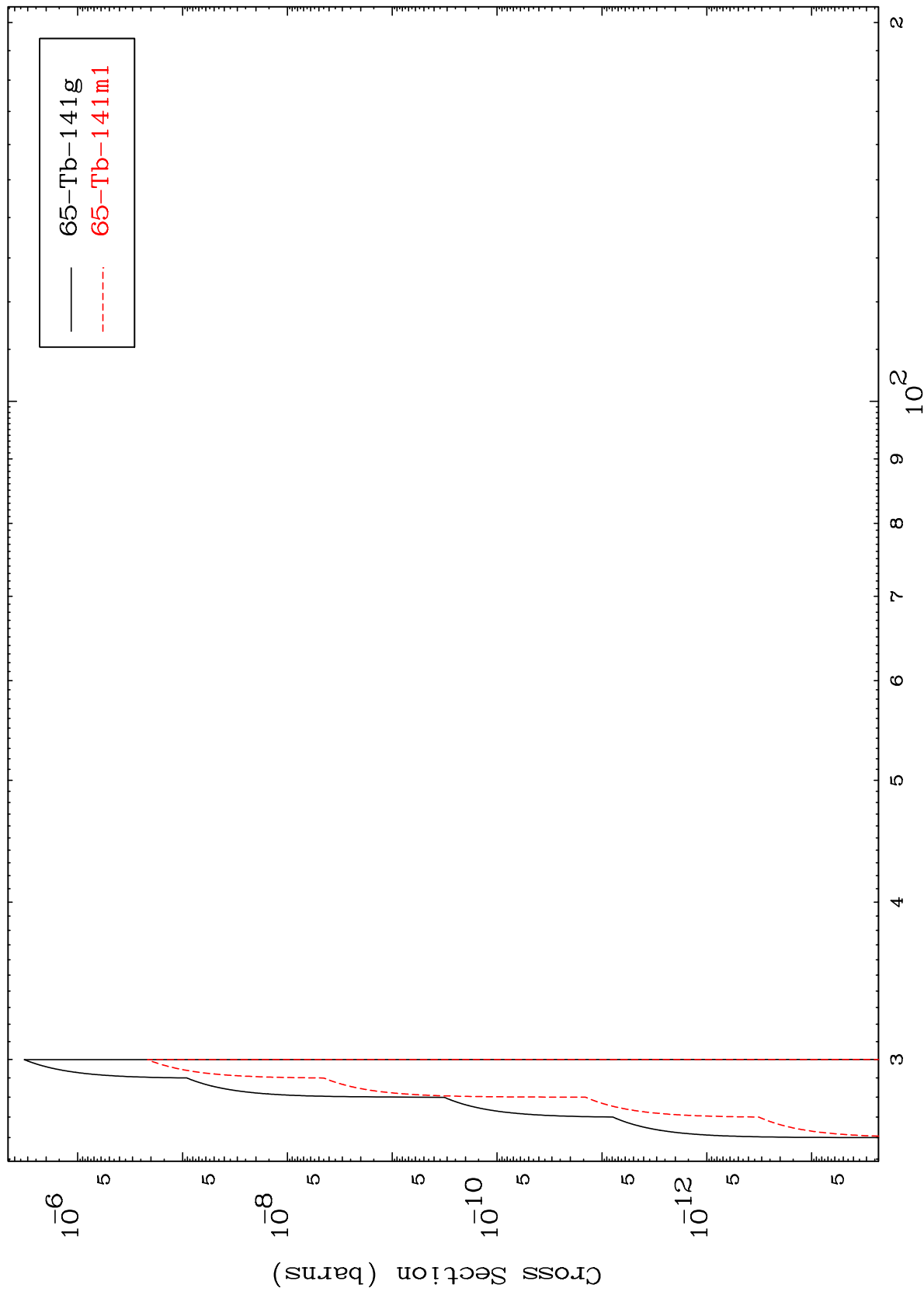
Incident Energy (MeV)

66-Dy-144

MAT 6589

66-Dy-144

(n,3n) p  
Radionuclide Production Cross Section



66-Dy-144

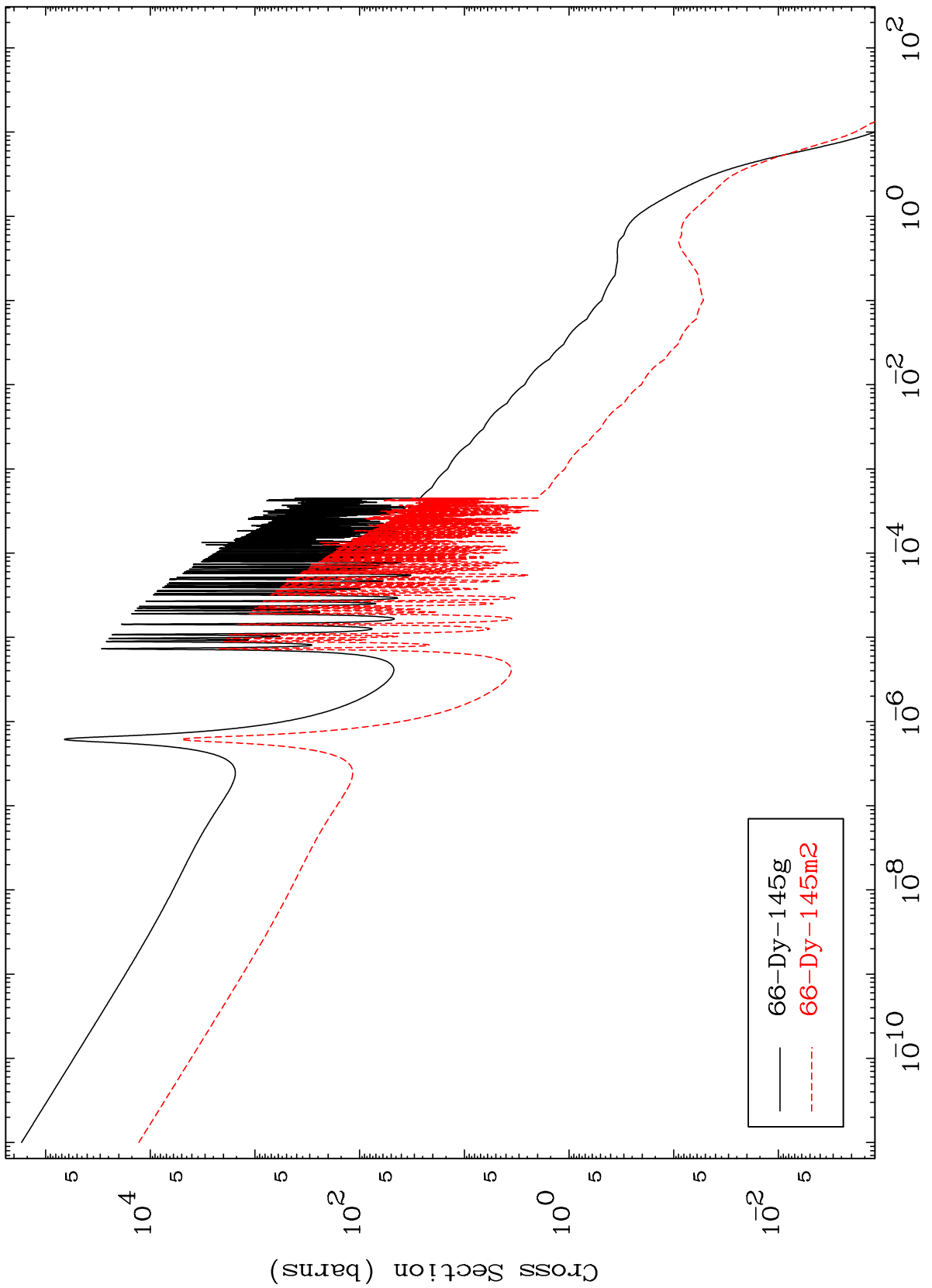
Incident Energy (MeV)

78

MAT 6589

66-Dy-144

$(n, \gamma)$   
Radionuclide Production Cross Section

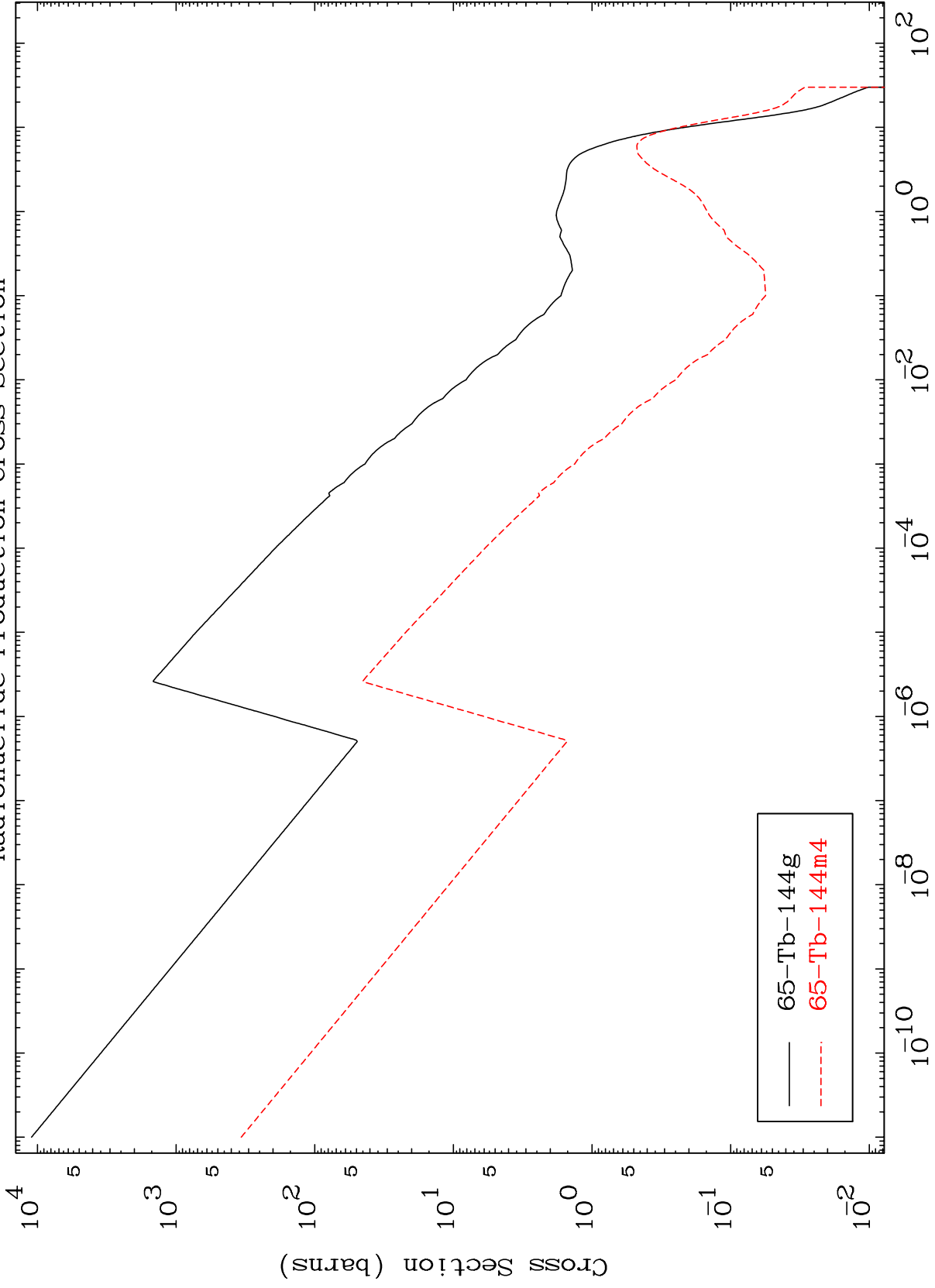




MAT 6589

66-Dy-144

(n,p)  
Radionuclide Production Cross Section



— 65-Tb-144g  
- - - 65-Tb-144m4

80

Incident Energy (MeV)

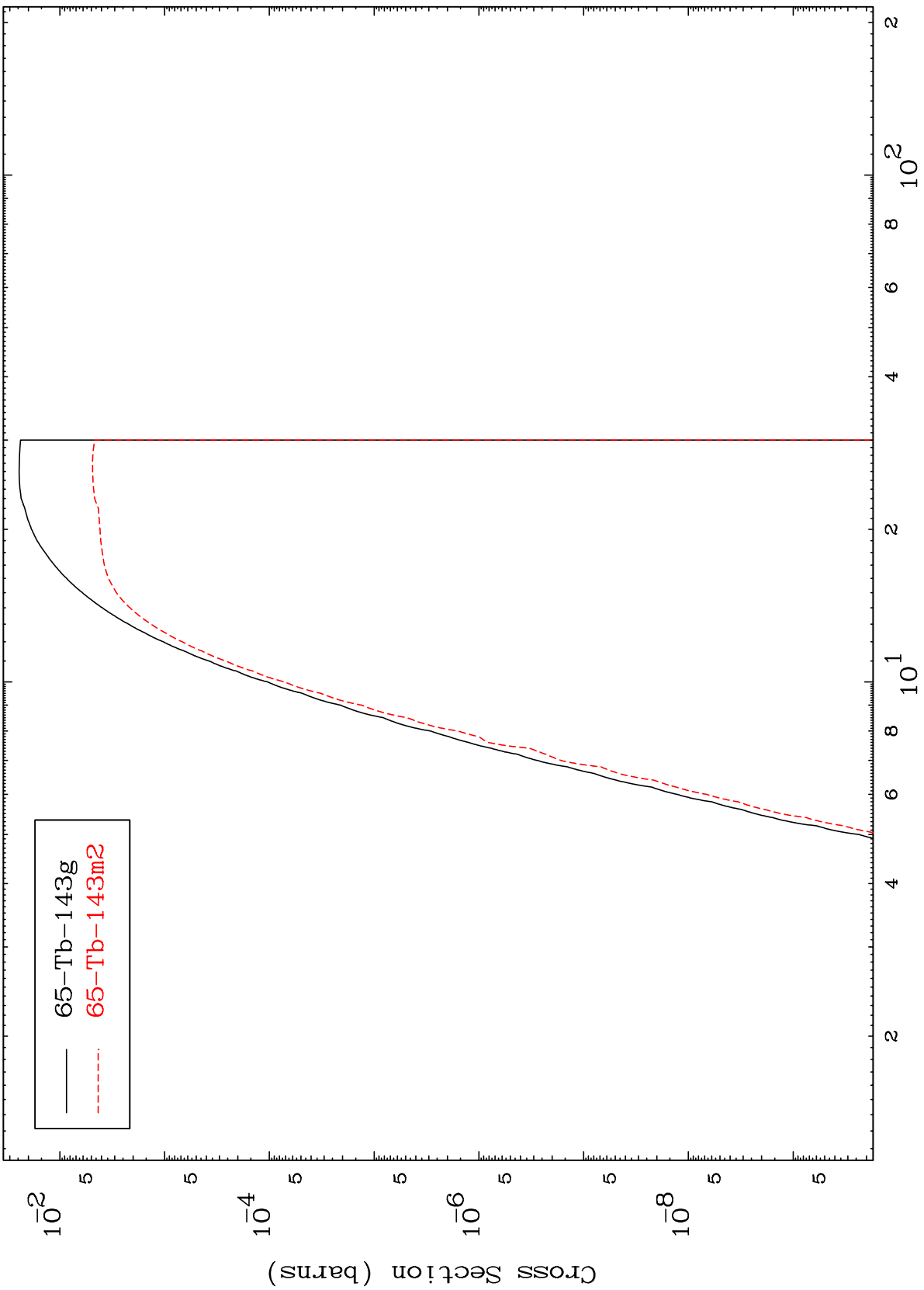
66-Dy-144

MAT 6589

(n,d)

66-Dy-144

Radionuclide Production Cross Section

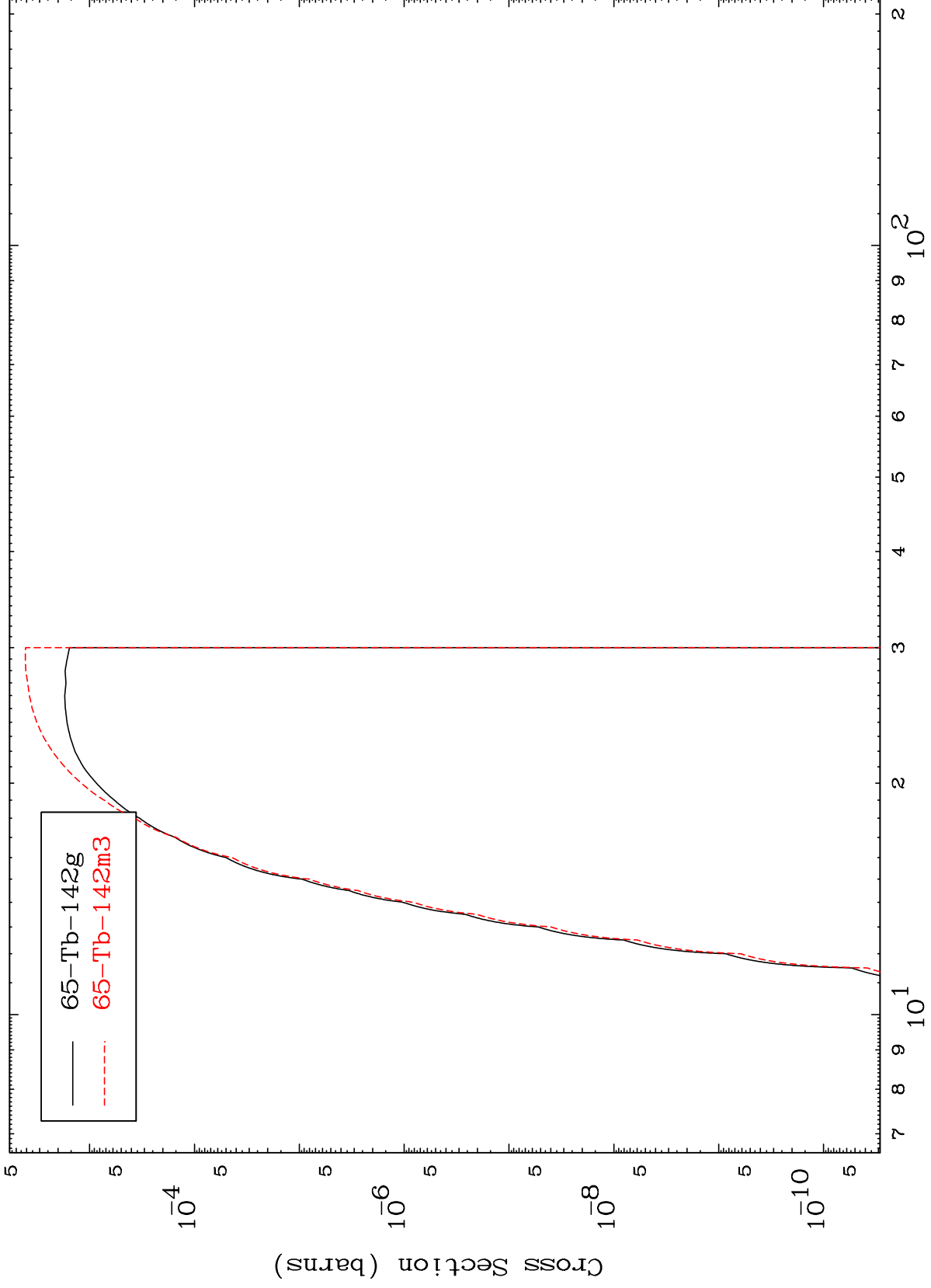


65-Tb-143g  
65-Tb-143m2

MAT 6589

66-Dy-144

(n,t)  
Radionuclide Production Cross Section



82

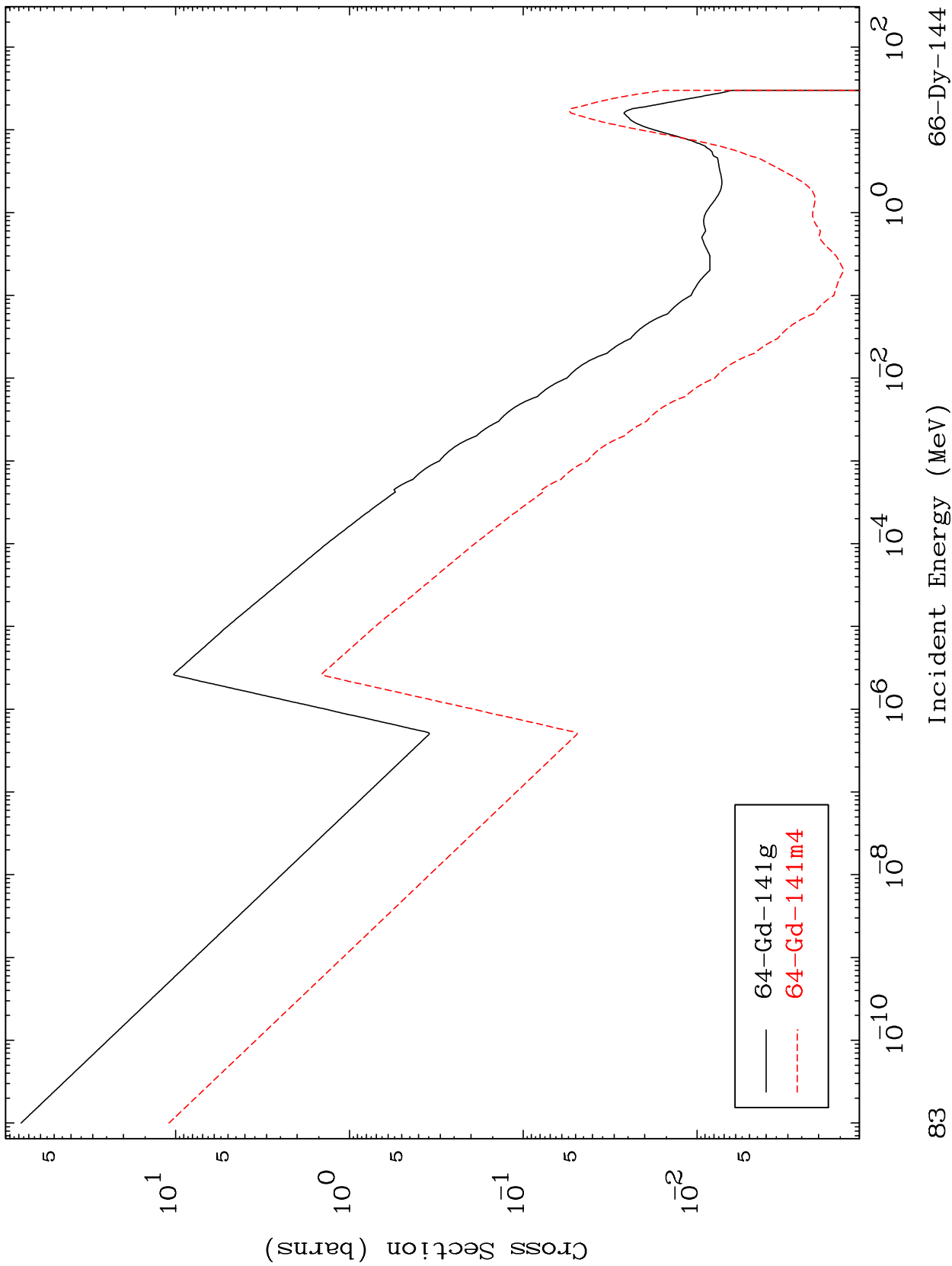
Incident Energy (MeV)

66-Dy-144

MAT 6589

66-Dy-144

$(n, \alpha)$   
Radionuclide Production Cross Section

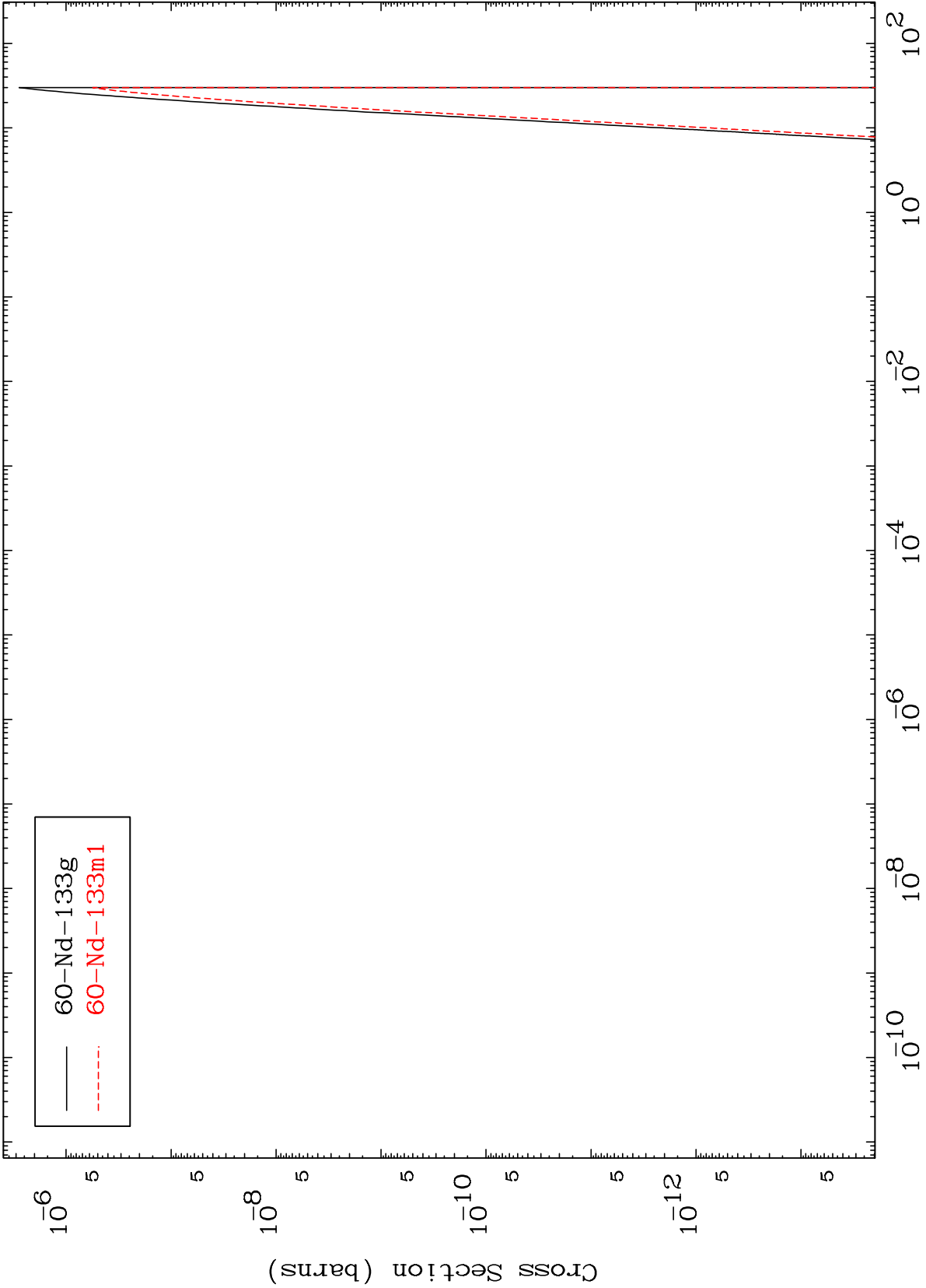
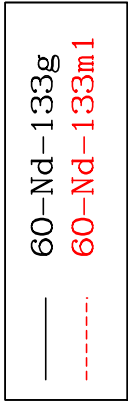


MAT 6589

(n,3 $\alpha$ )

66-Dy-144

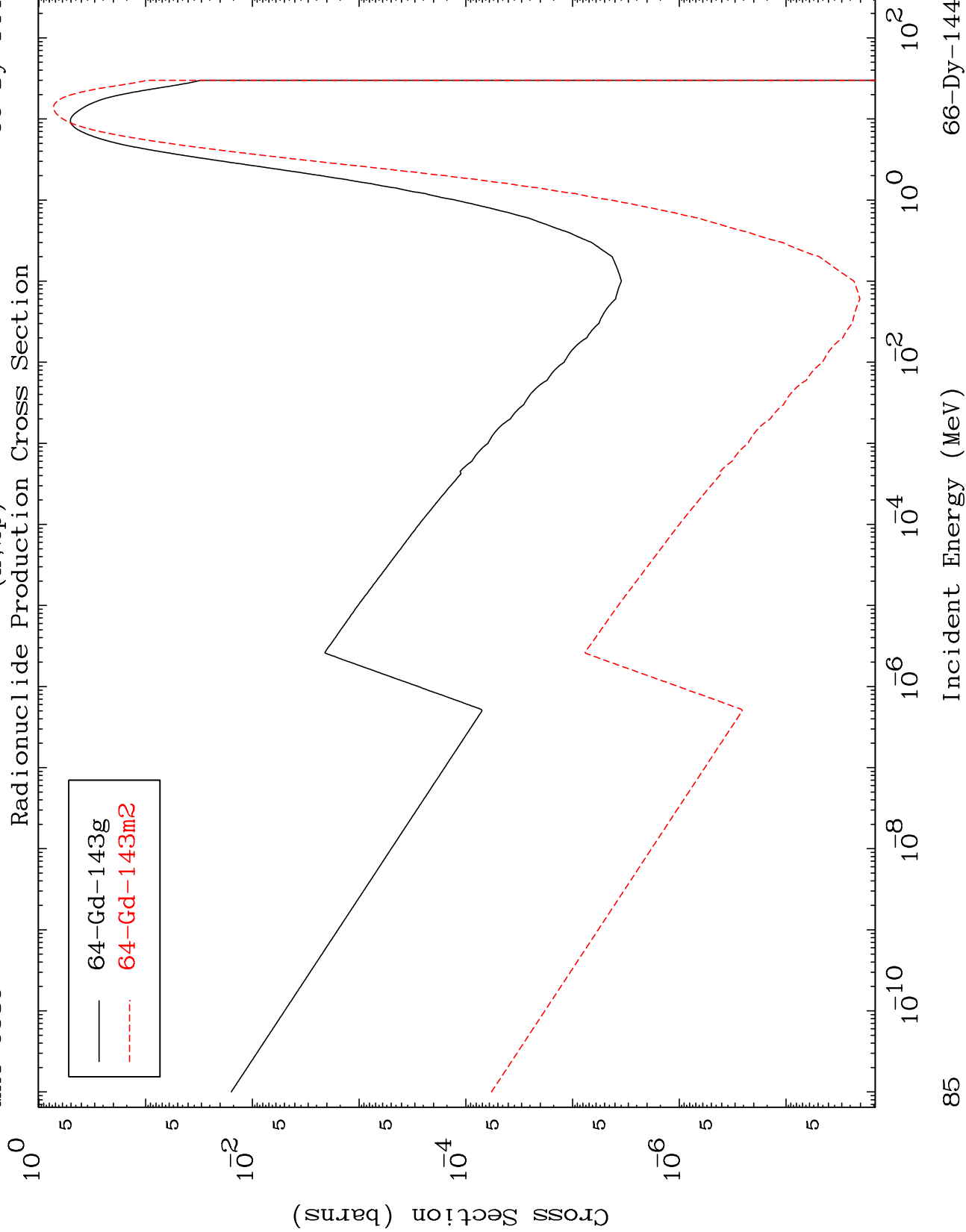
Radionuclide Production Cross Section



MAT 6589

Radionuclide Production Cross Section  
(n,2p)

66-Dy-144

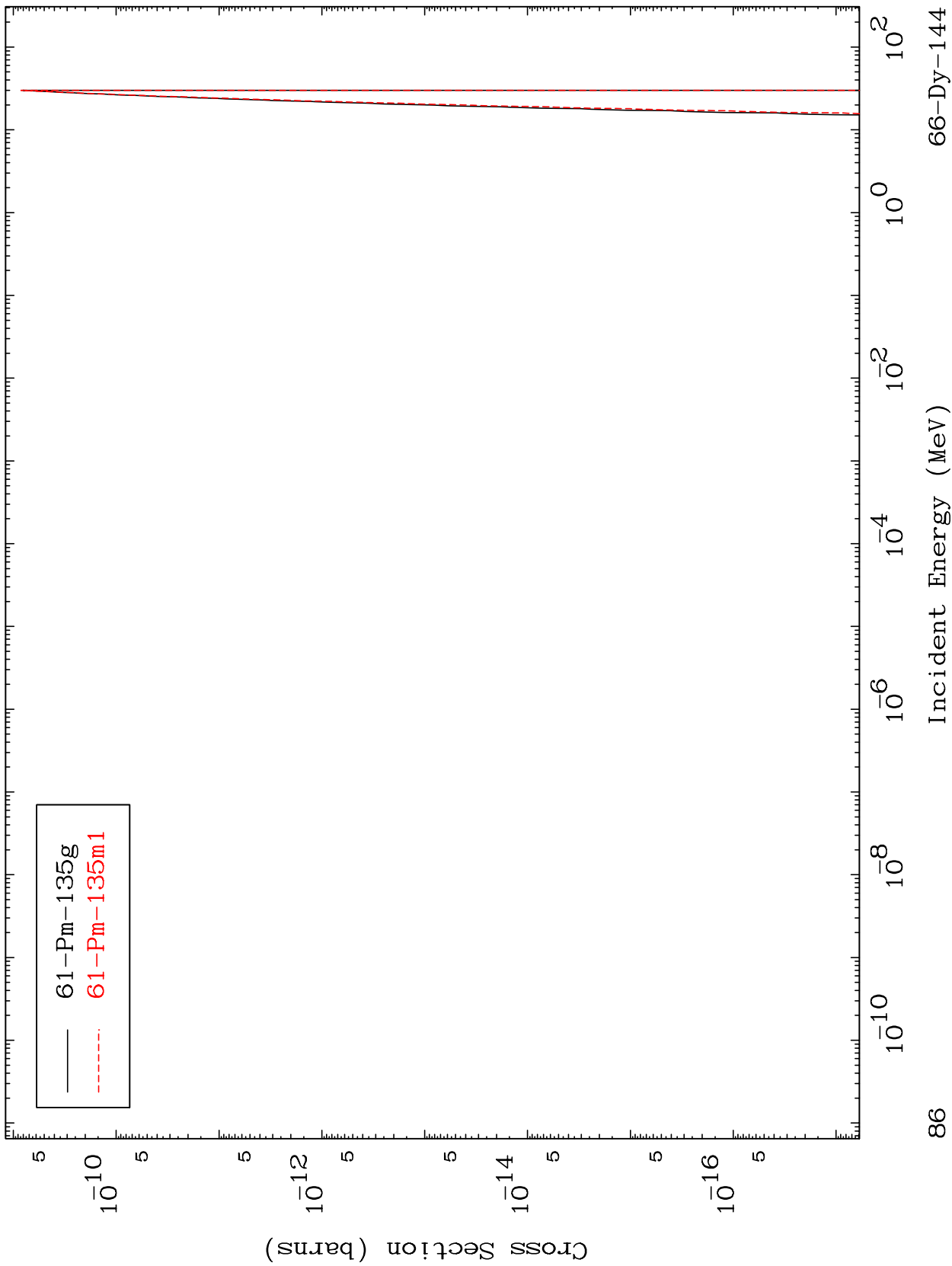


MAT 6589

(n,d)  $2\alpha$

$^{66}\text{Dy}-144$

Radionuclide Production Cross Section

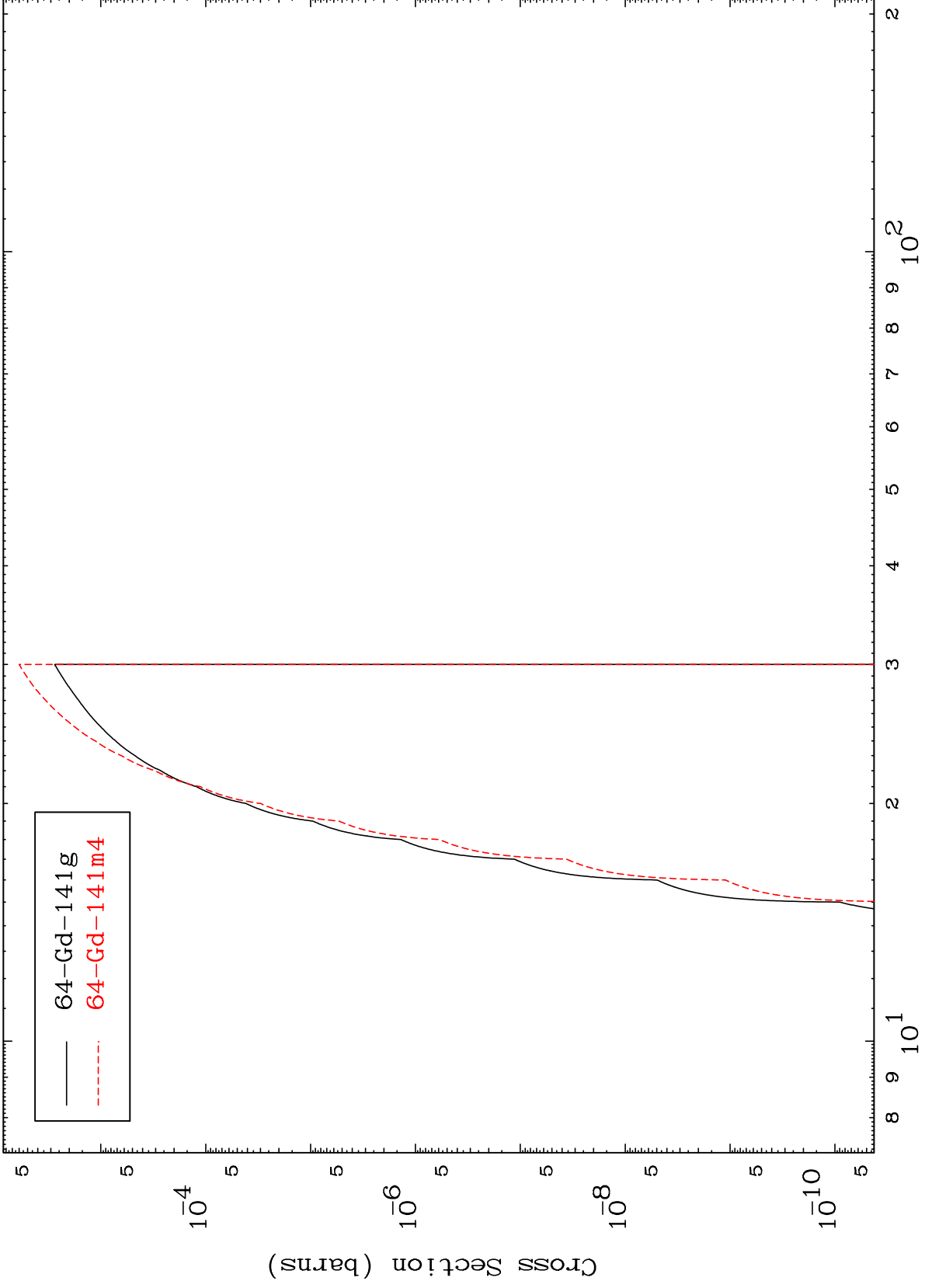


MAT 6589

(n,p) t

66-Dy-144

Radionuclide Production Cross Section



87

Incident Energy (MeV)

66-Dy-144