

Program EVALPLOT  
(Version 2017-1)

by

Dermott E. Cullen  
(Present Contact Information)

Dermott E. Cullen  
1466 Hudson Way  
Livermore, CA 94550  
U.S.A.

Tele: 925-443-1911

E.Mail: [redcullen1@comcast.net](mailto:redcullen1@comcast.net)

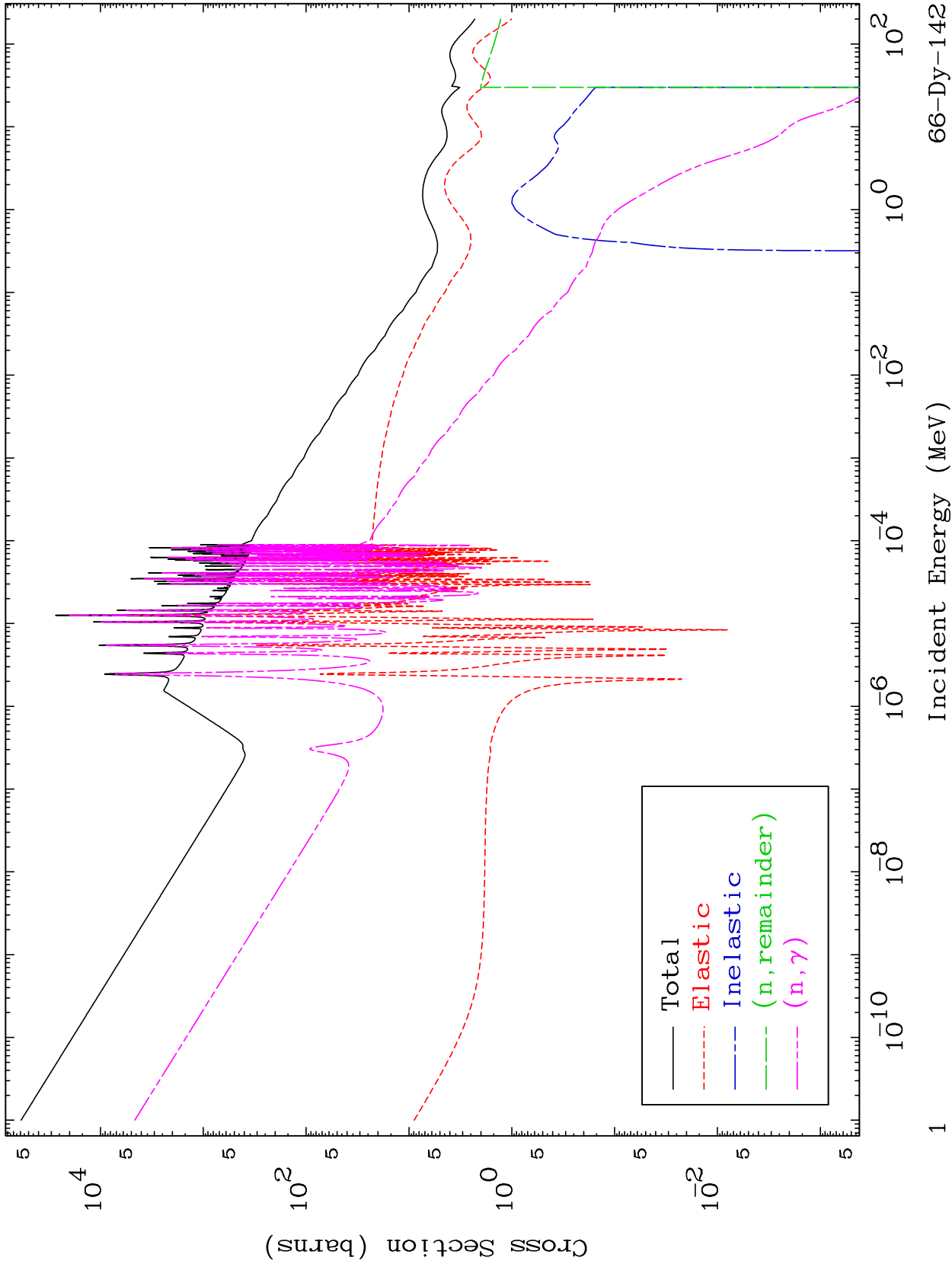
Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

Press Mouse Button to Start

MAT 6583

Major  
293 Kelvin Cross Sections

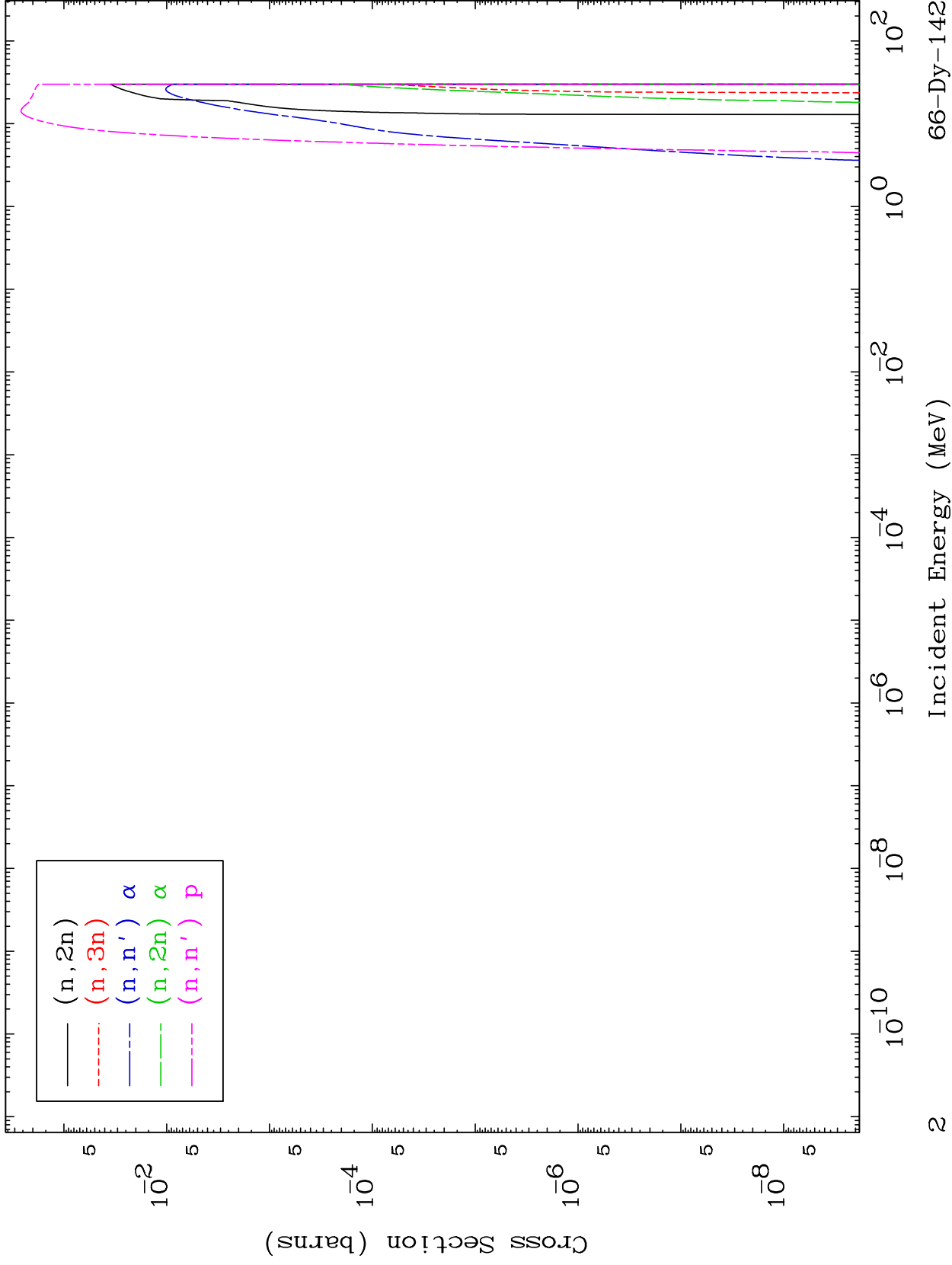
66-Dy-142



MAT 6583

Neutron Production  
293 Kelvin Cross Sections

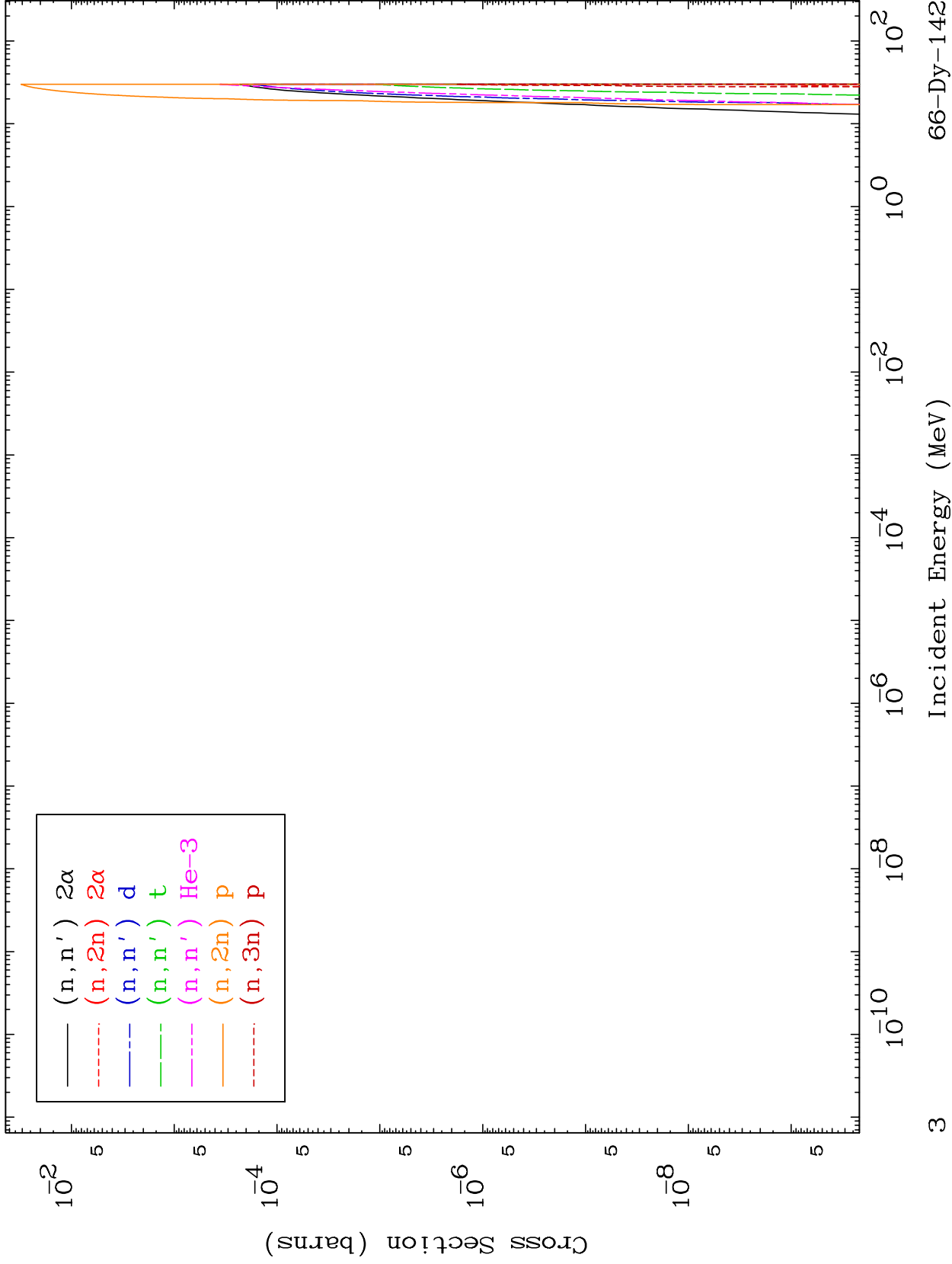
66-Dy-142



MAT 6583

Neutron Production  
293 Kelvin Cross Sections

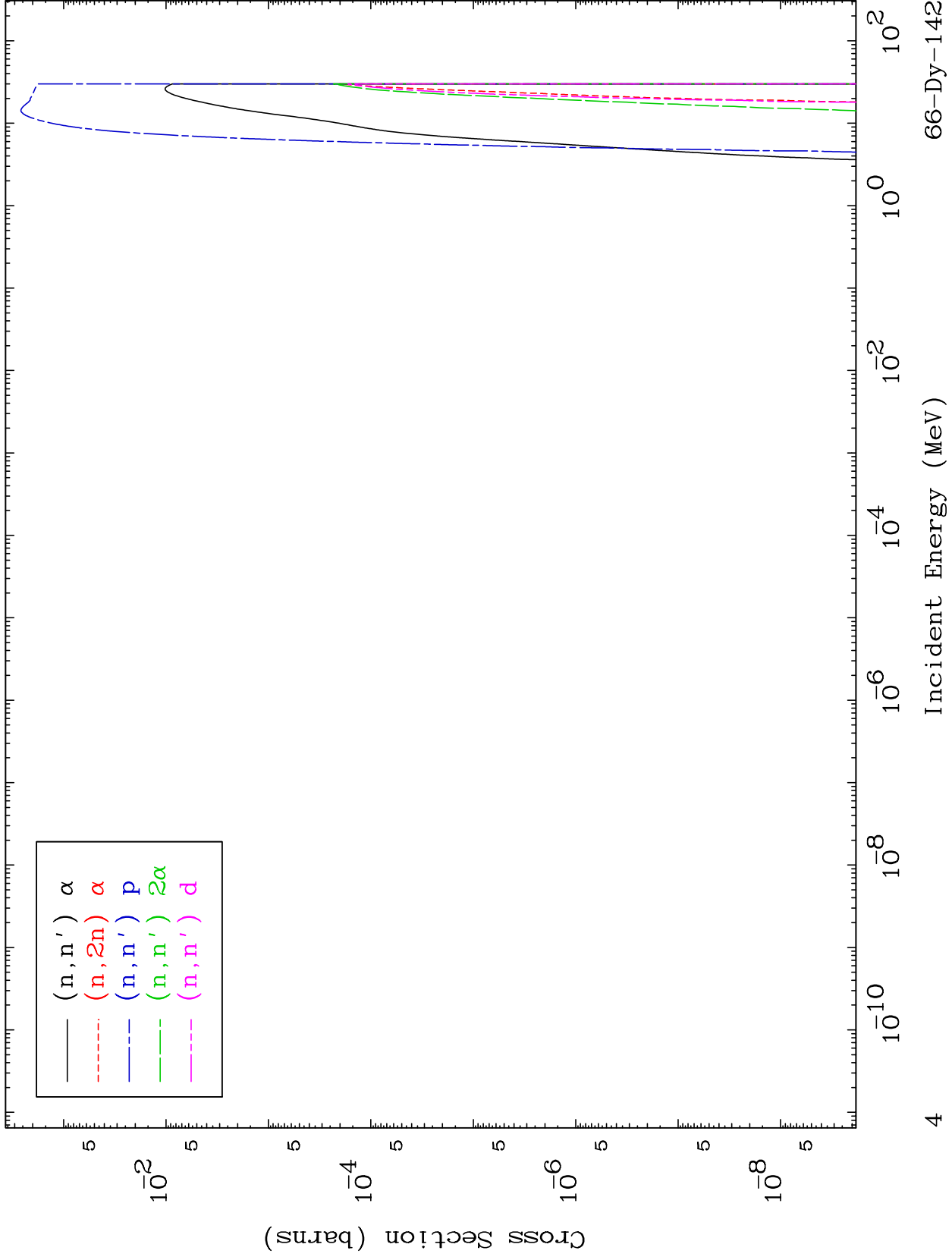
66-Dy-142



MAT 6583

Charged Particle  
293 Kelvin Cross Sections

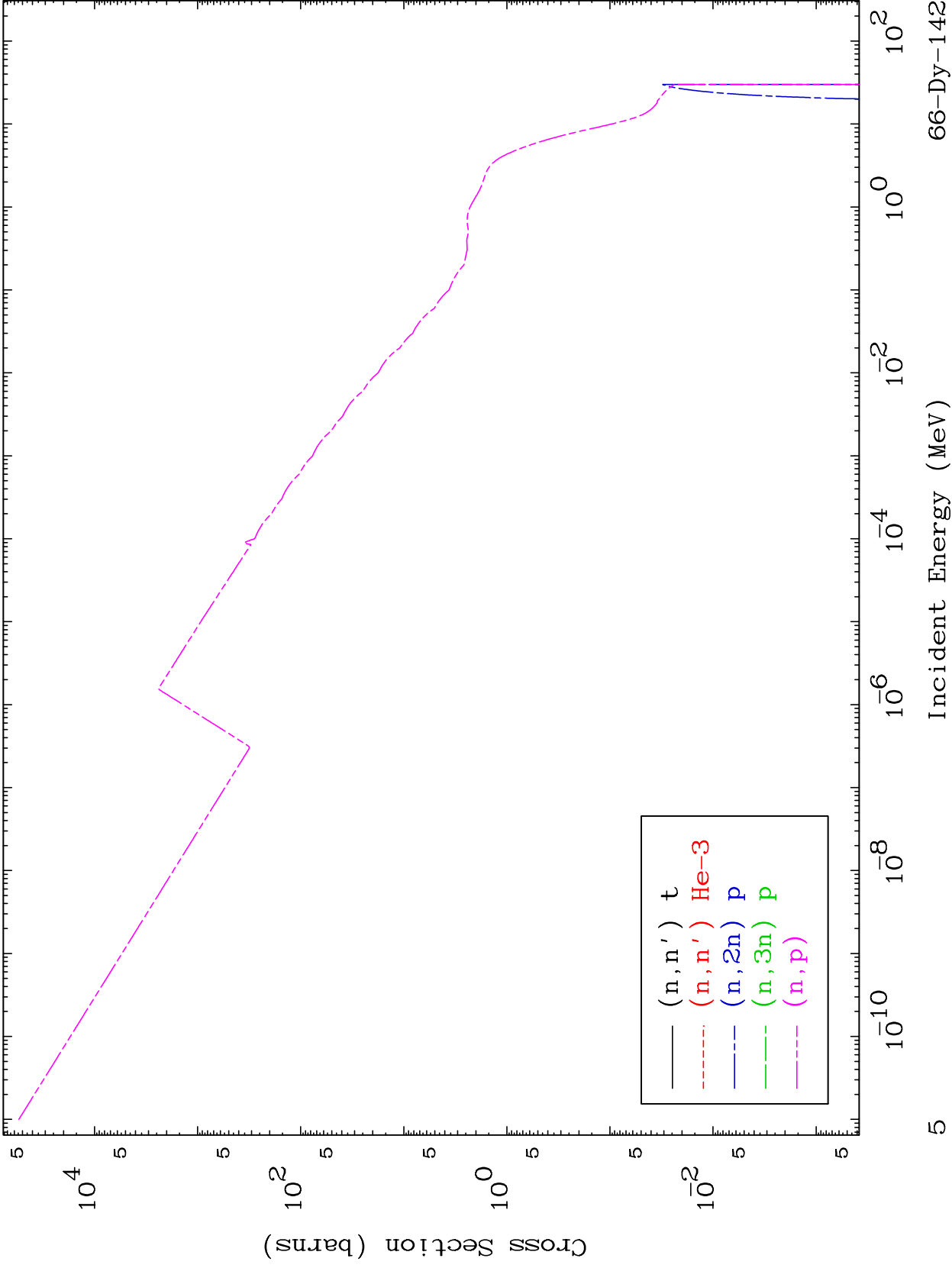
66-Dy-142



MAT 6583

Charged Particle  
293 Kelvin Cross Sections

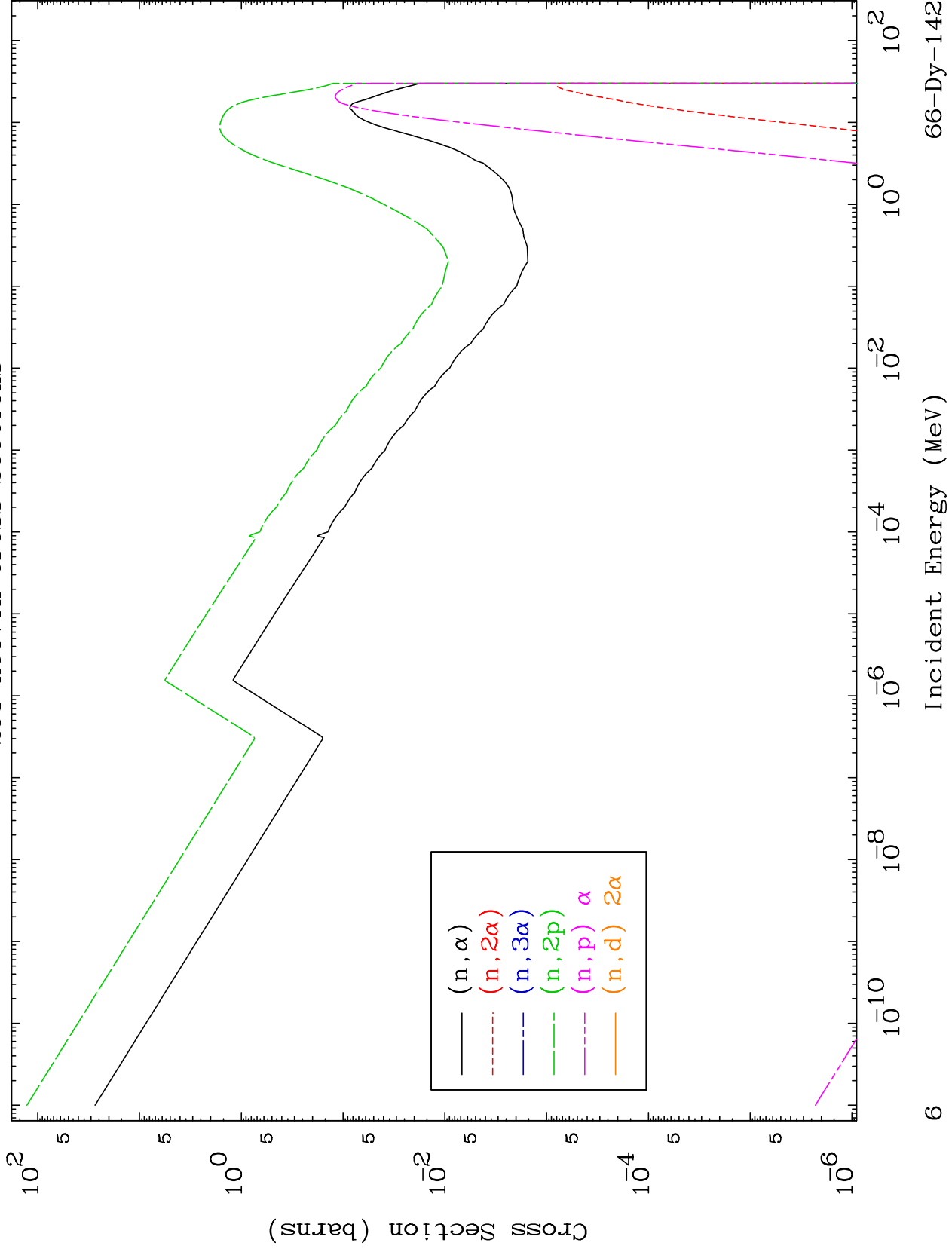
66-Dy-142



MAT 6583

Charged Particle  
293 Kelvin Cross Sections

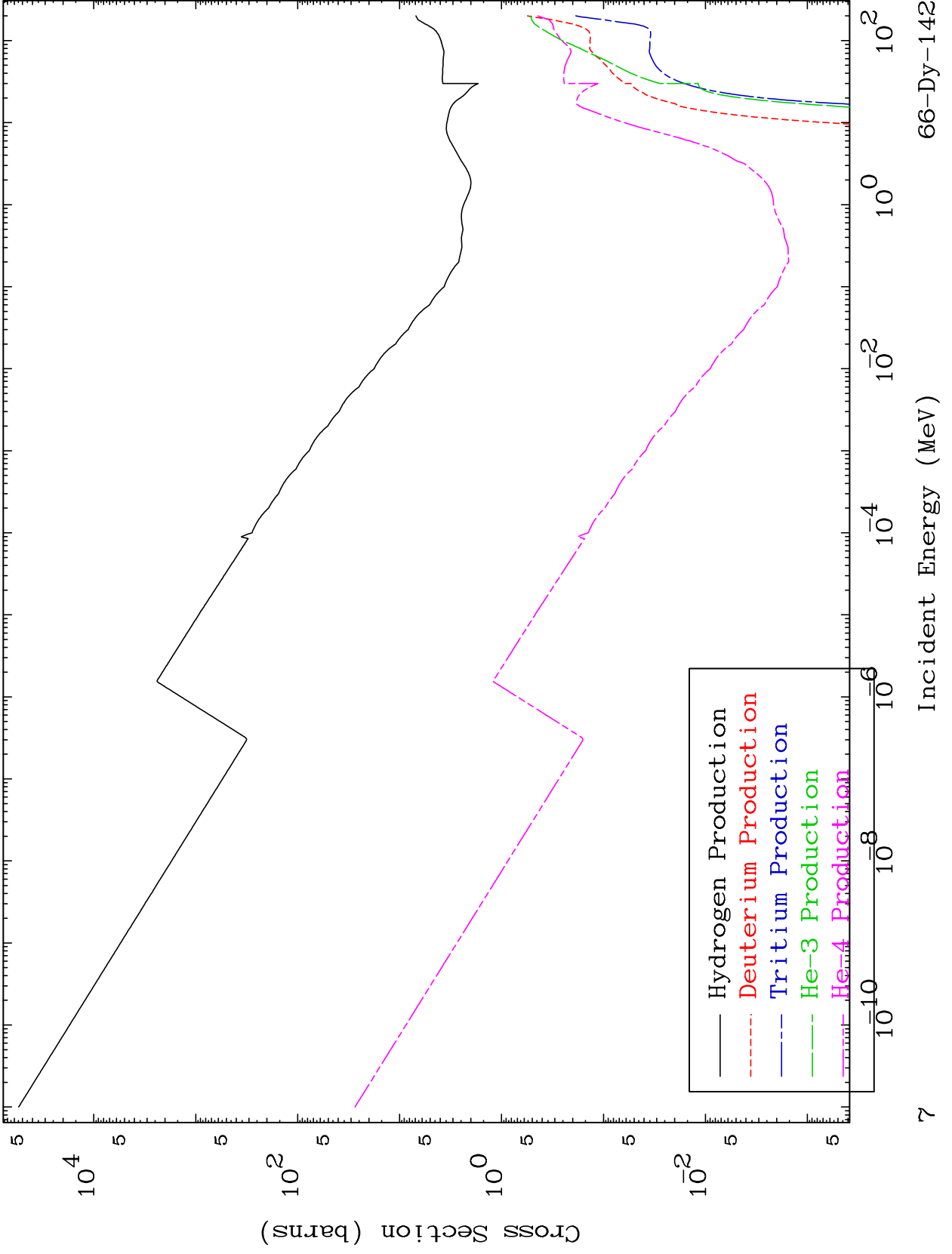
66-Dy-142



MAT 6583

Particle Production  
293 Kelvin Cross Sections

66-Dy-142



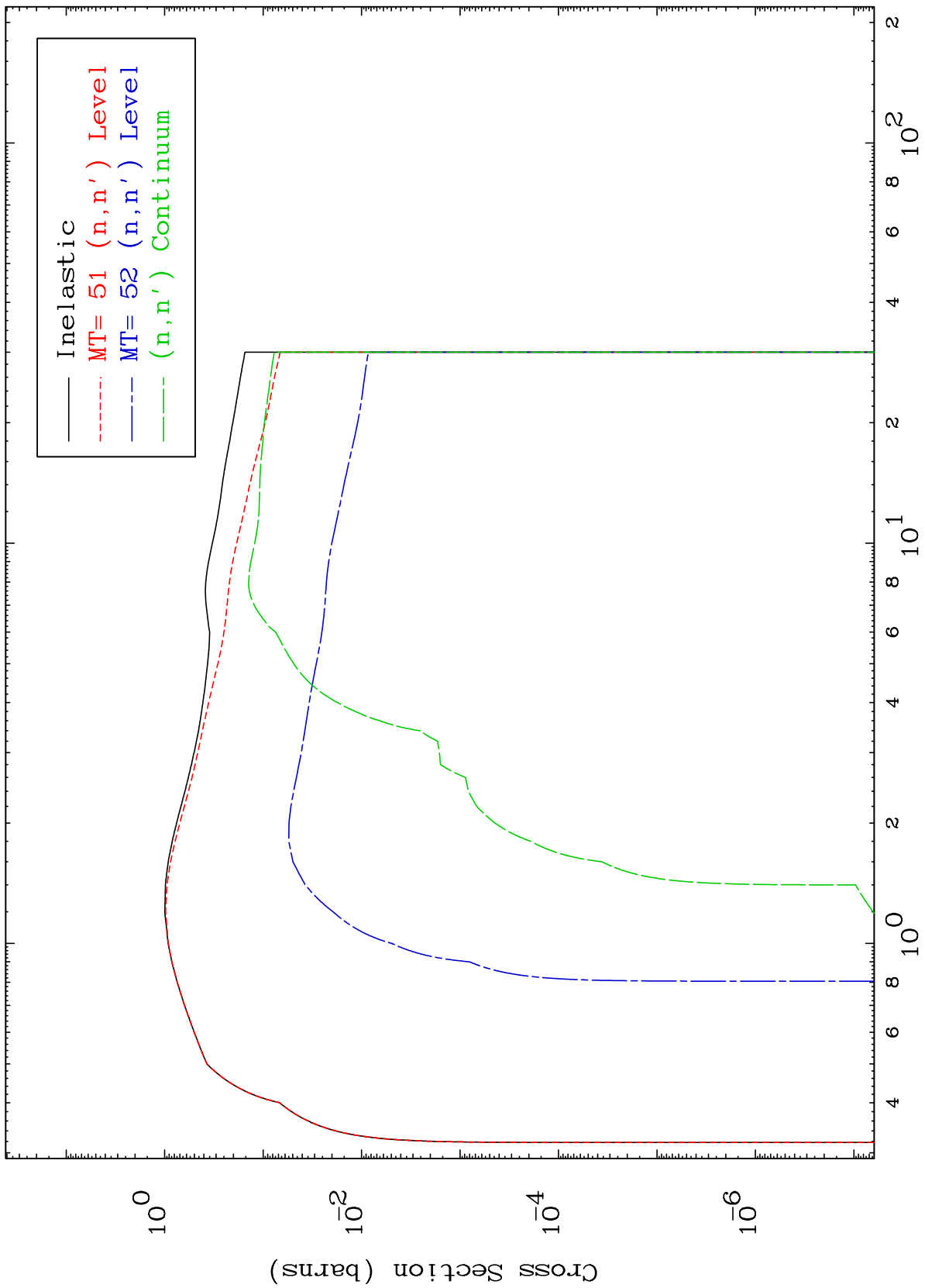


MAT 6583

(n,n') Level

66-Dy-142

293 Kelvin Cross Sections



8

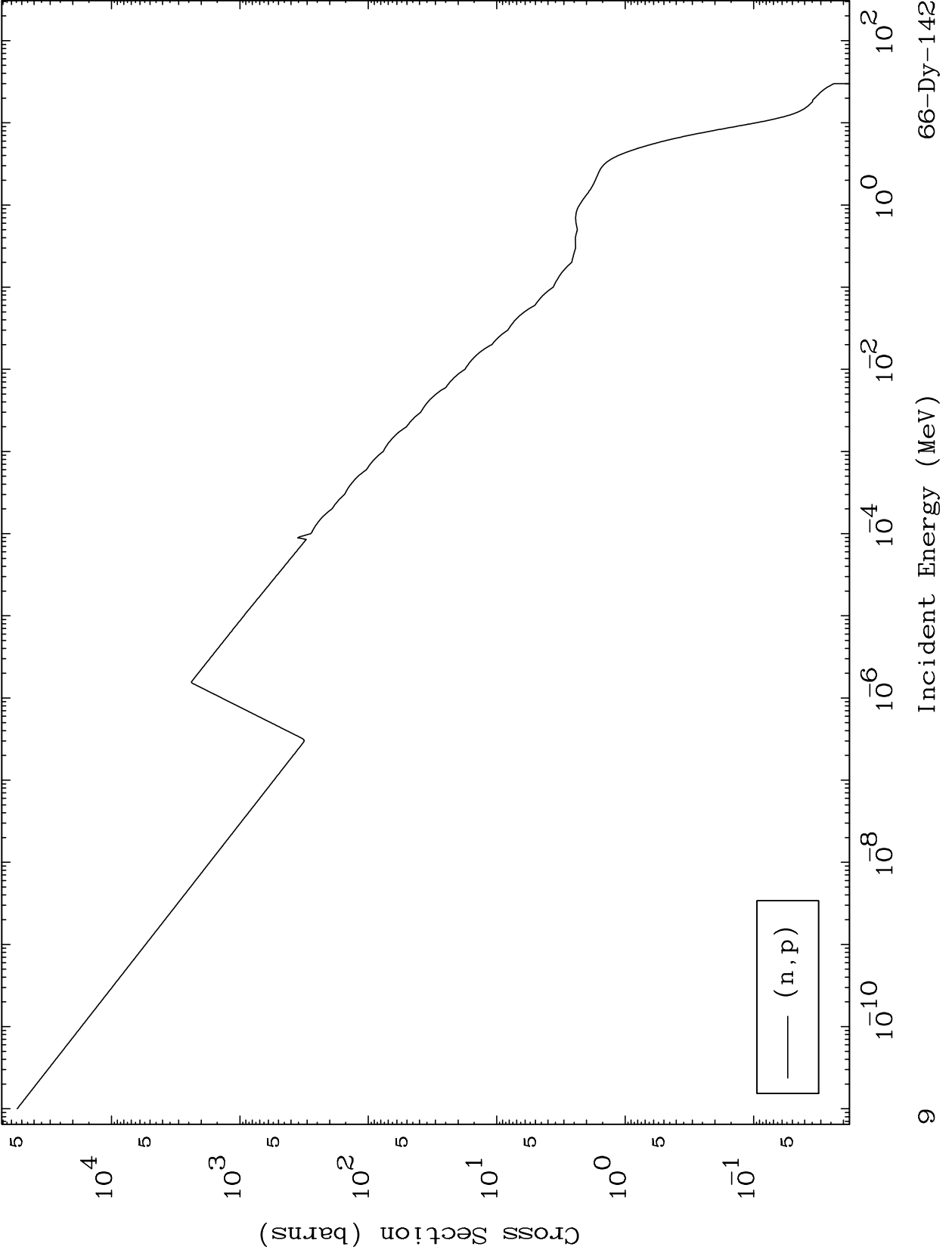
Incident Energy (MeV)

66-Dy-142

MAT 6583

(n,p) Levels  
293 Kelvin Cross Sections

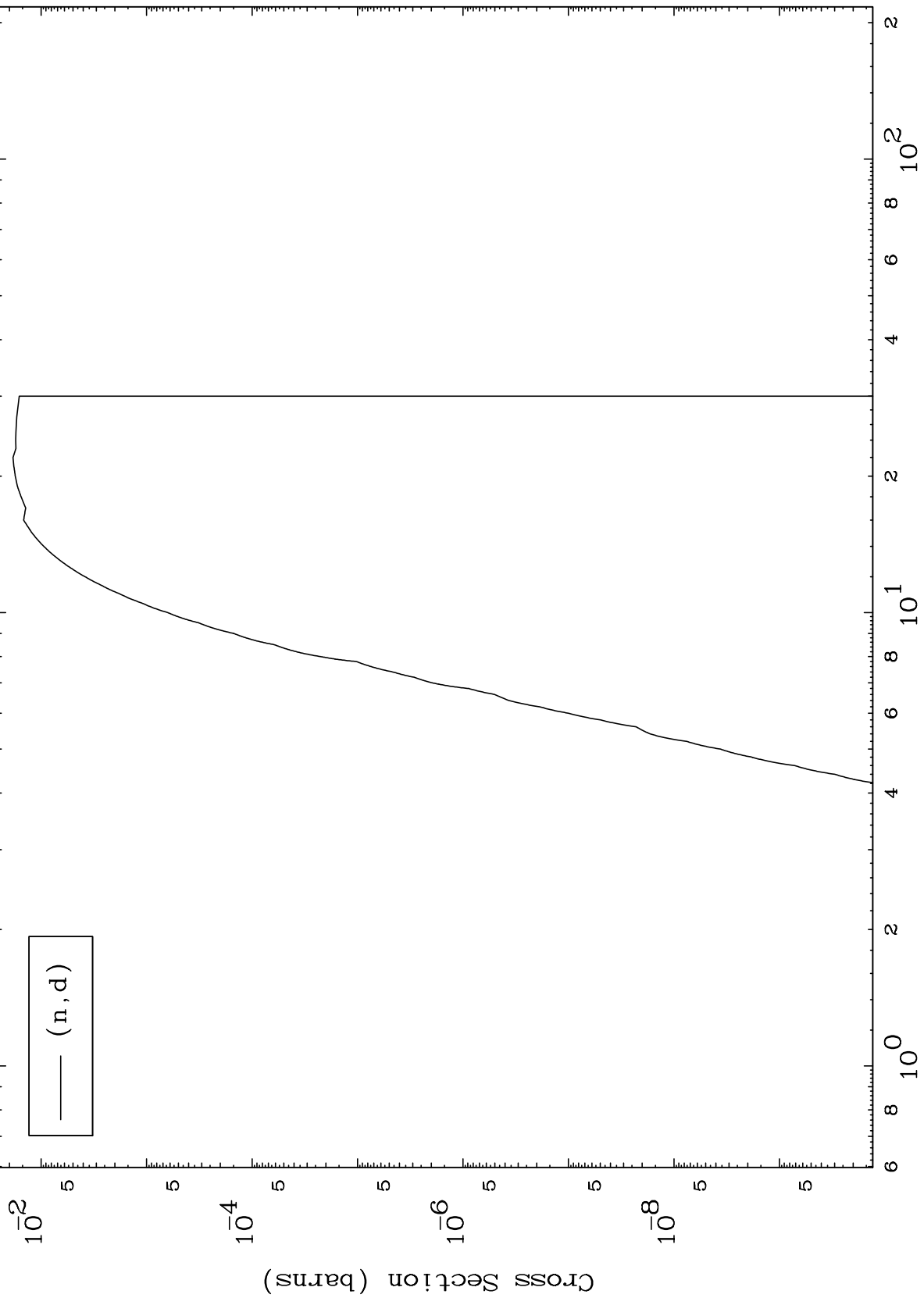
66-Dy-142



MAT 6583

(n,d) Levels  
293 Kelvin Cross Sections

66-Dy-142



10

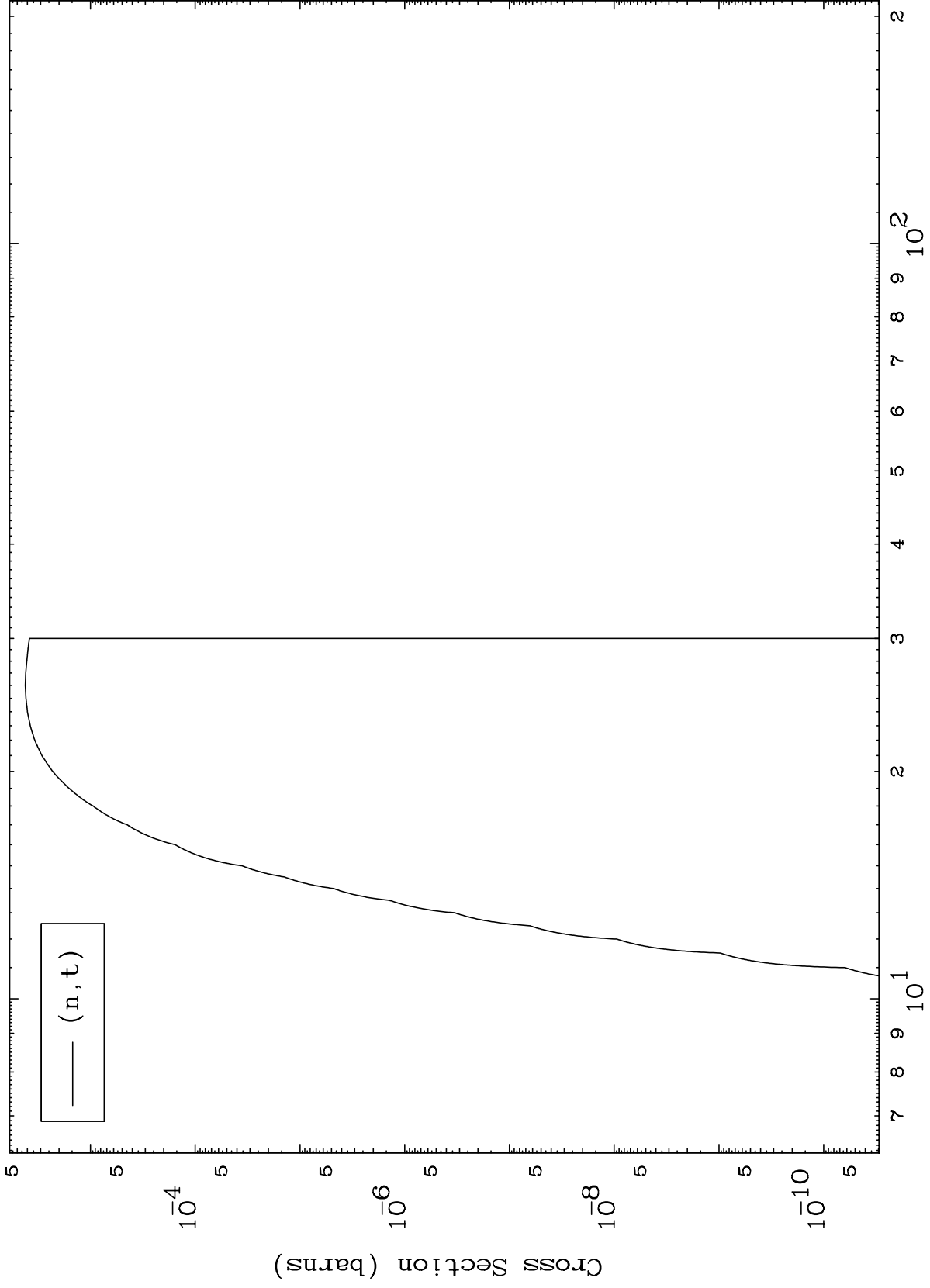
Incident Energy (MeV)

66-Dy-142

MAT 6583

(n,t) Levels  
293 Kelvin Cross Sections

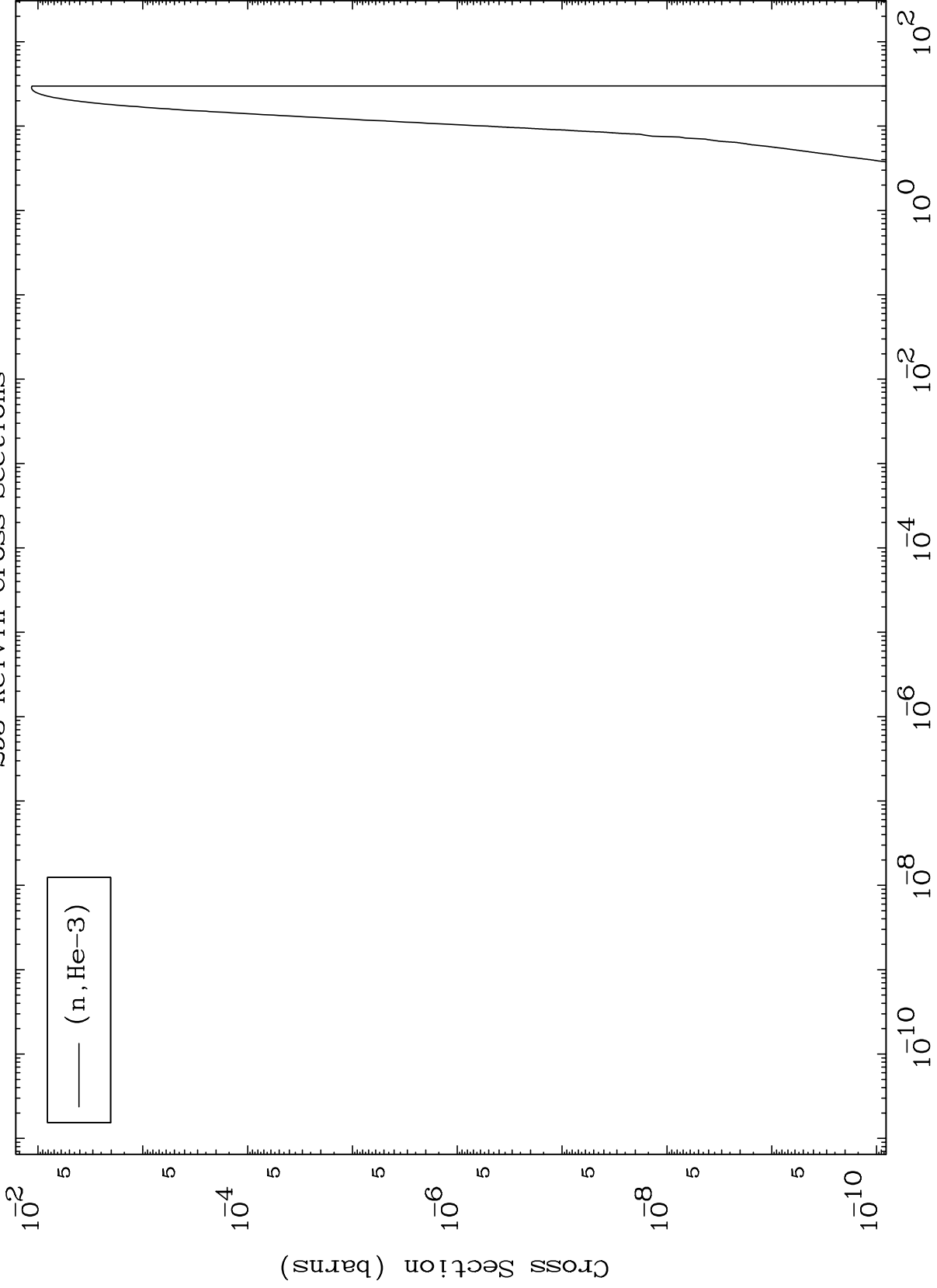
66-Dy-142



MAT 6583

(n,He3) Levels  
293 Kelvin Cross Sections

66-Dy-142

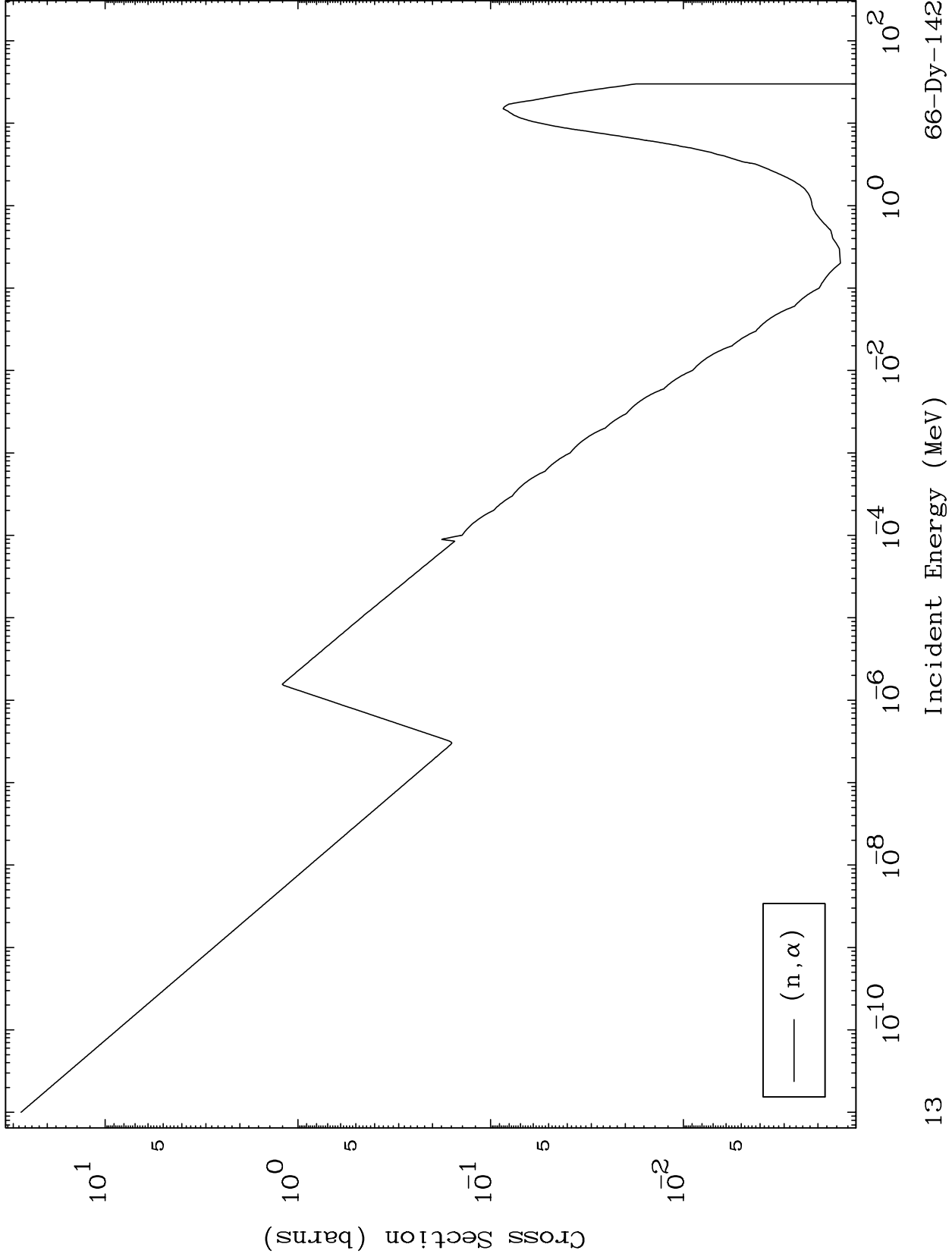


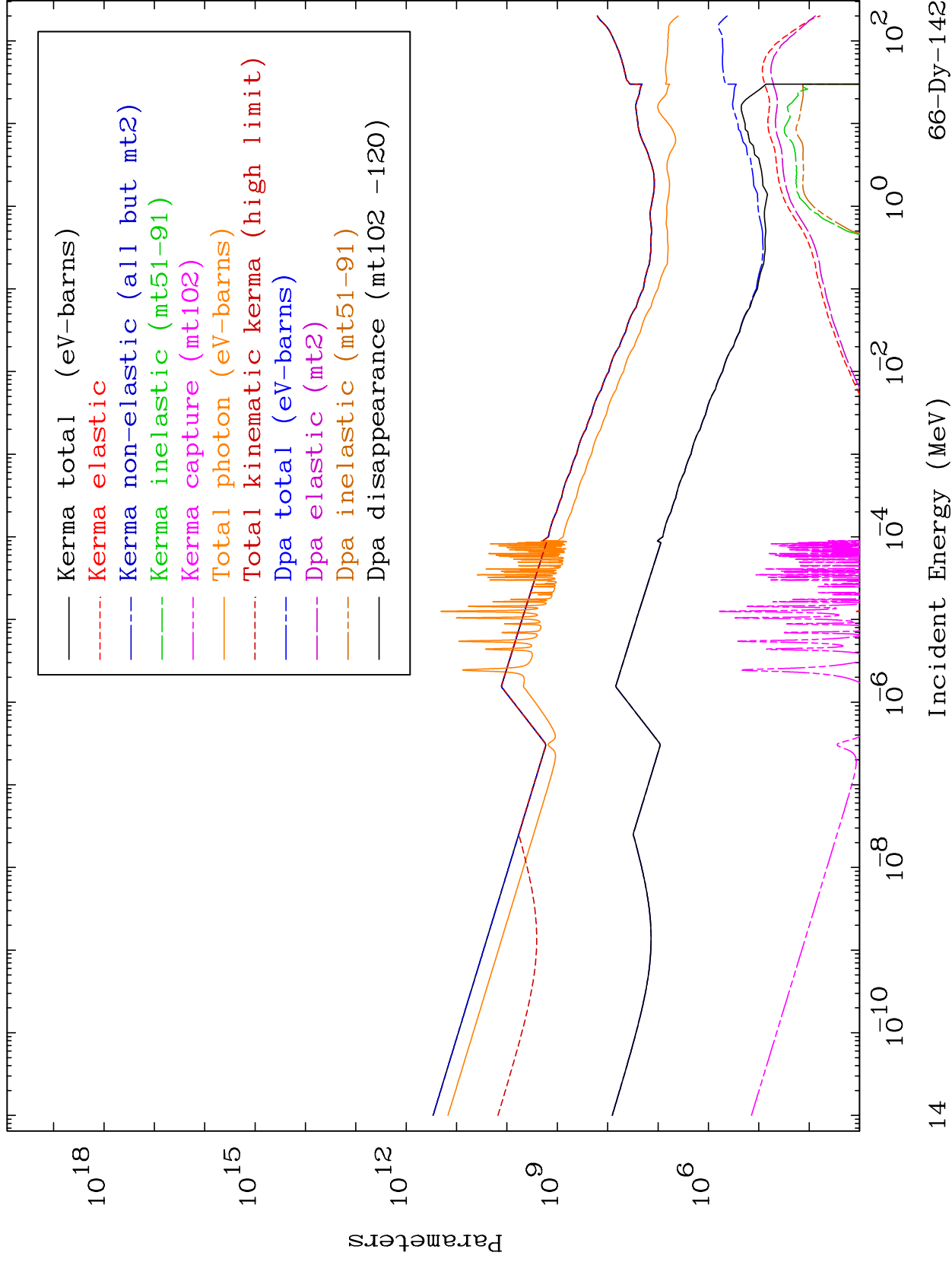
(n, He-3)

MAT 6583

(n,α) Levels  
293 Kelvin Cross Sections

66-Dy-142

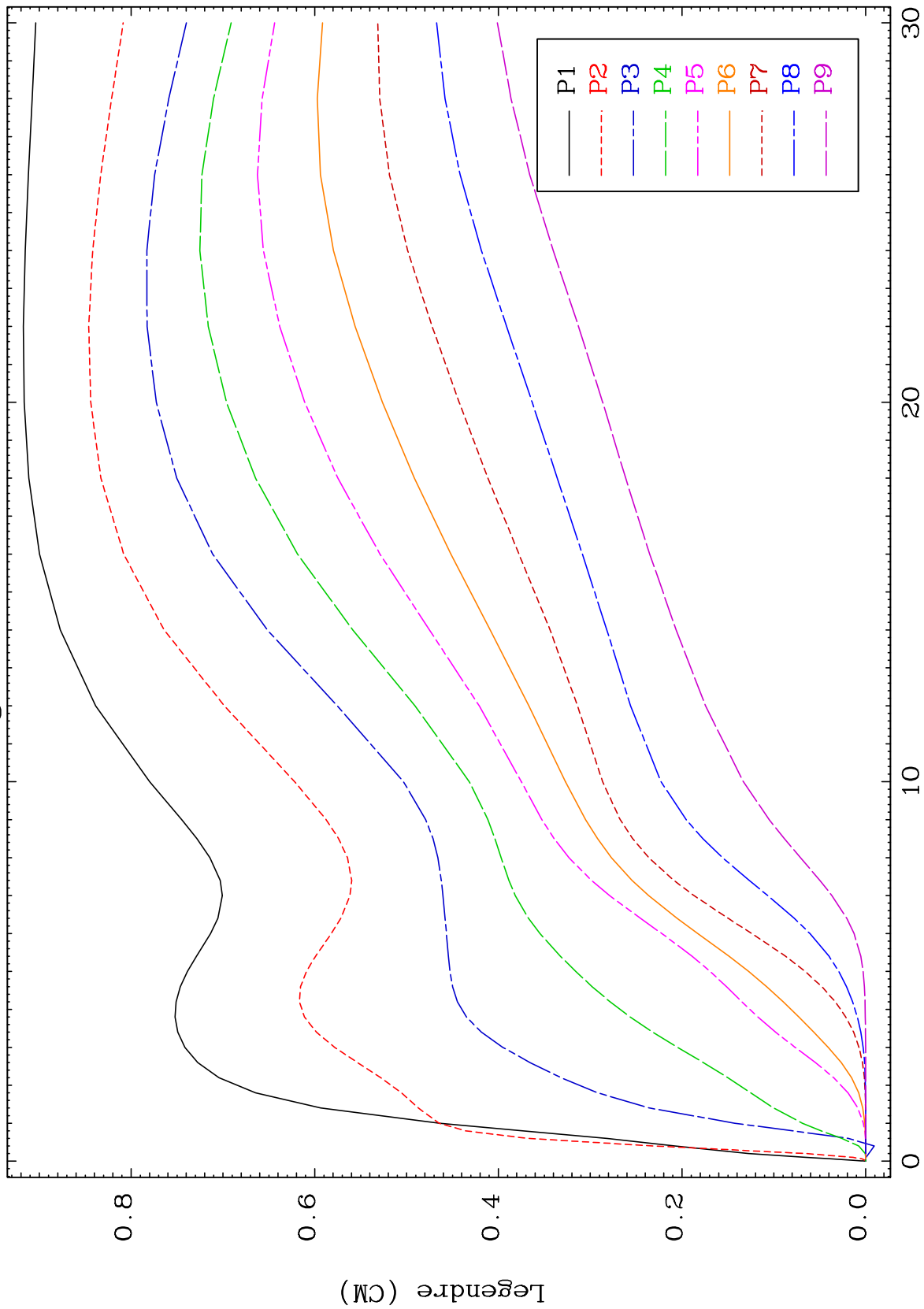




MAT 6583

Elastic Legendre Coefficients

66-Dy-142



15

Incident Energy (MeV)

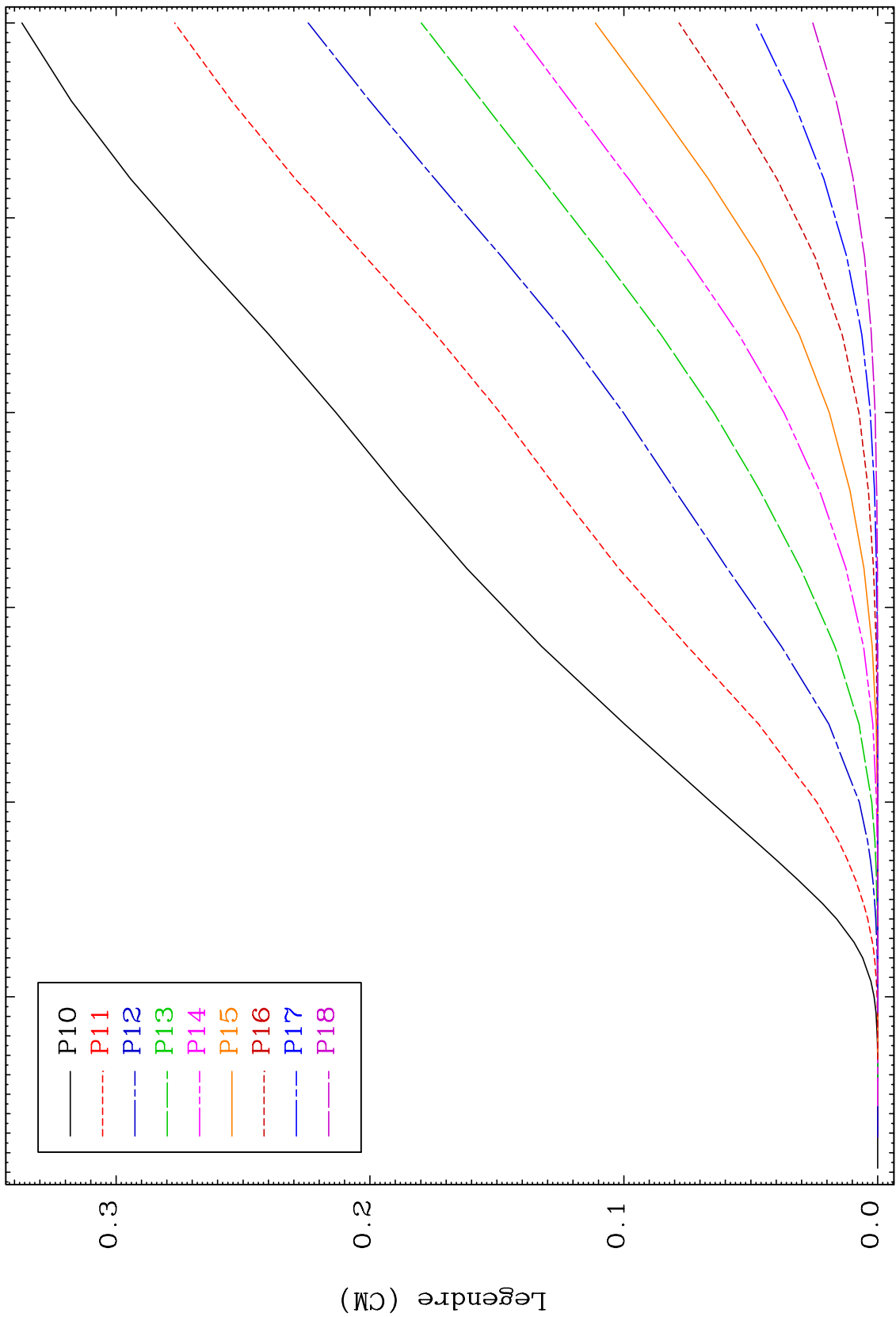
66-Dy-142



MAT 6583

Elastic Legendre Coefficients

66-Dy-142



16

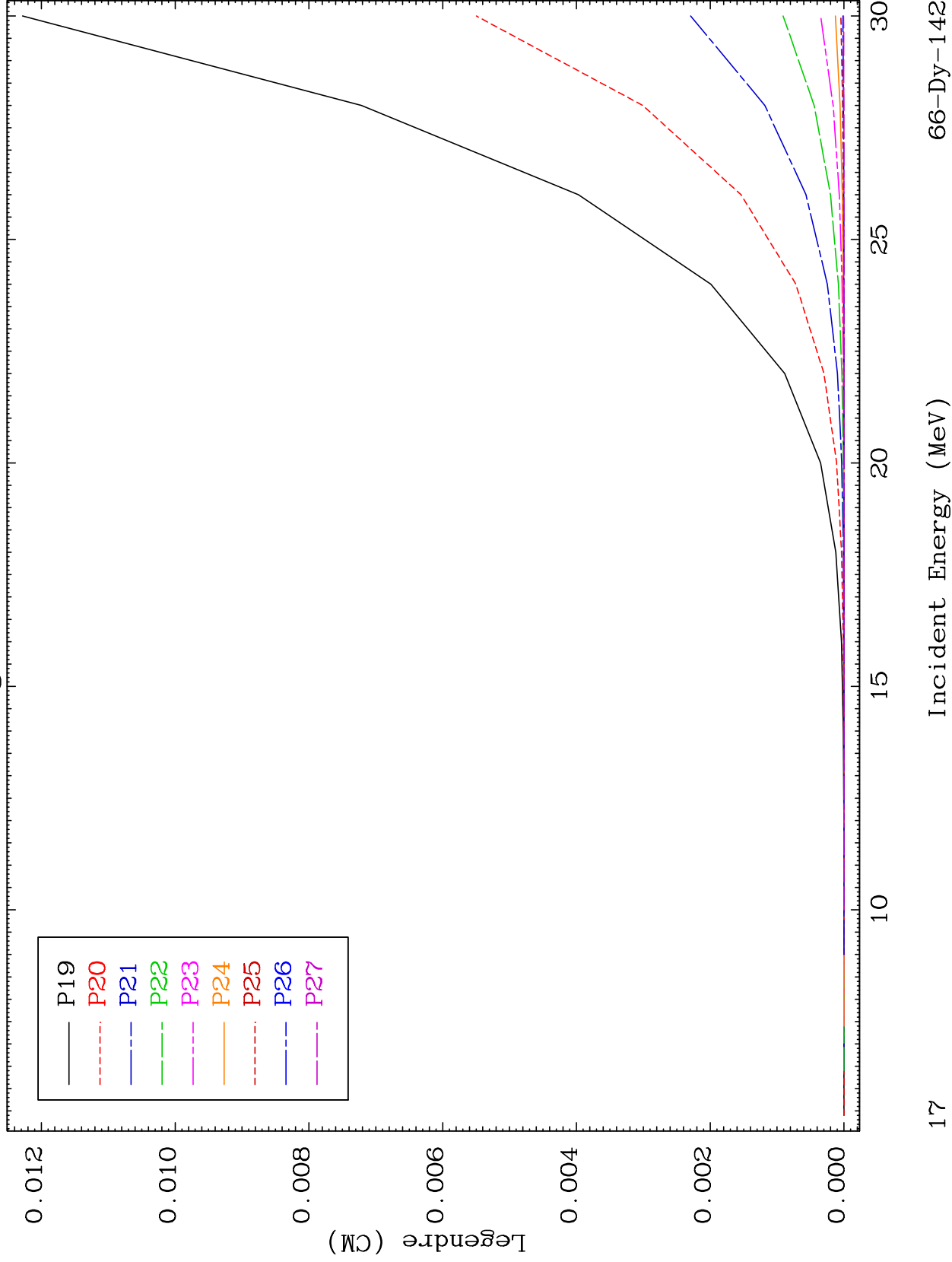
Incident Energy (MeV)

66-Dy-142

MAT 6583

### Elastic Legendre Coefficients

66-Dy-142



17

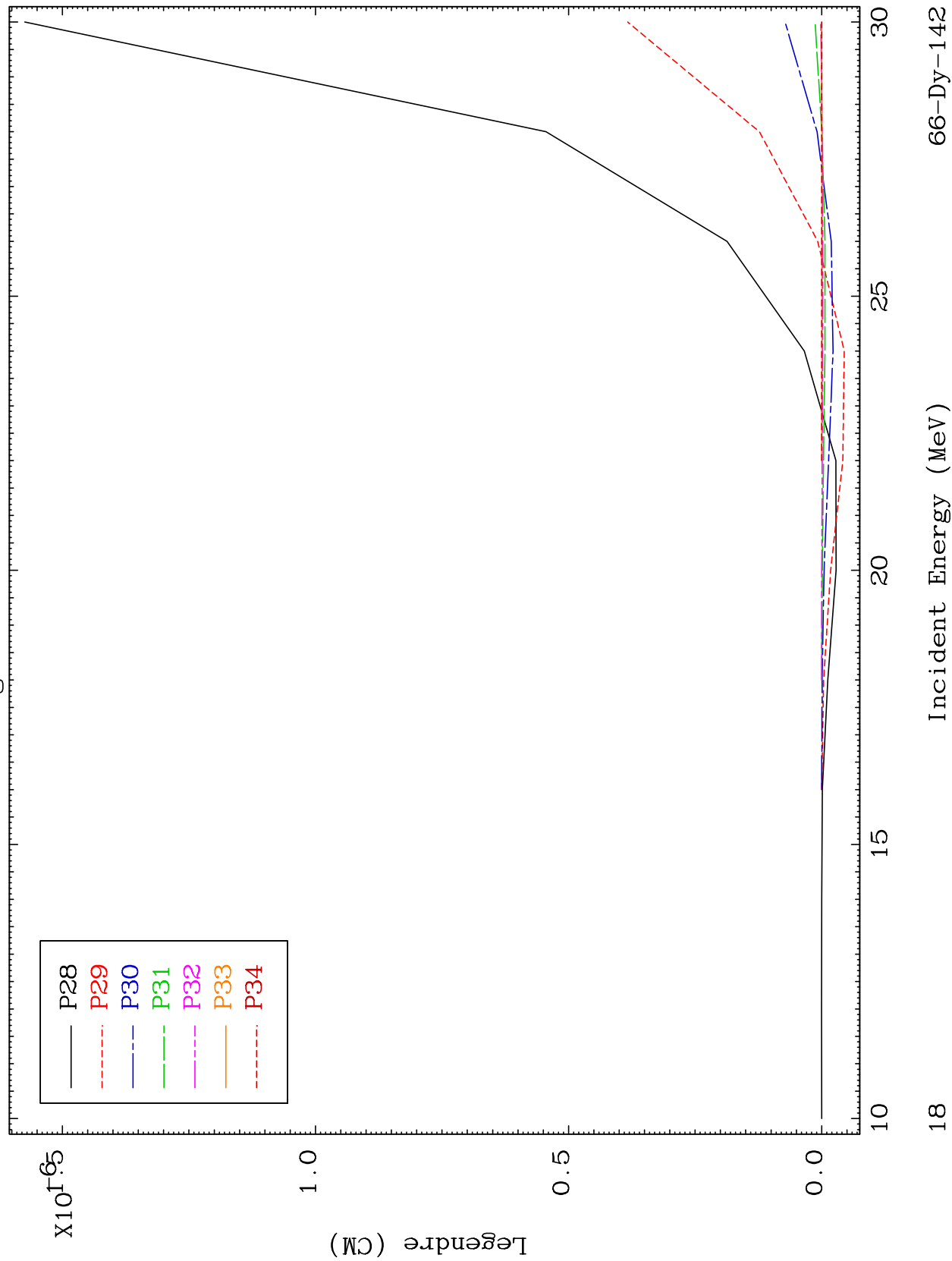
Incident Energy (MeV)

66-Dy-142

MAT 6583

Elastic  
Legendre Coefficients

66-Dy-142



66-Dy-142

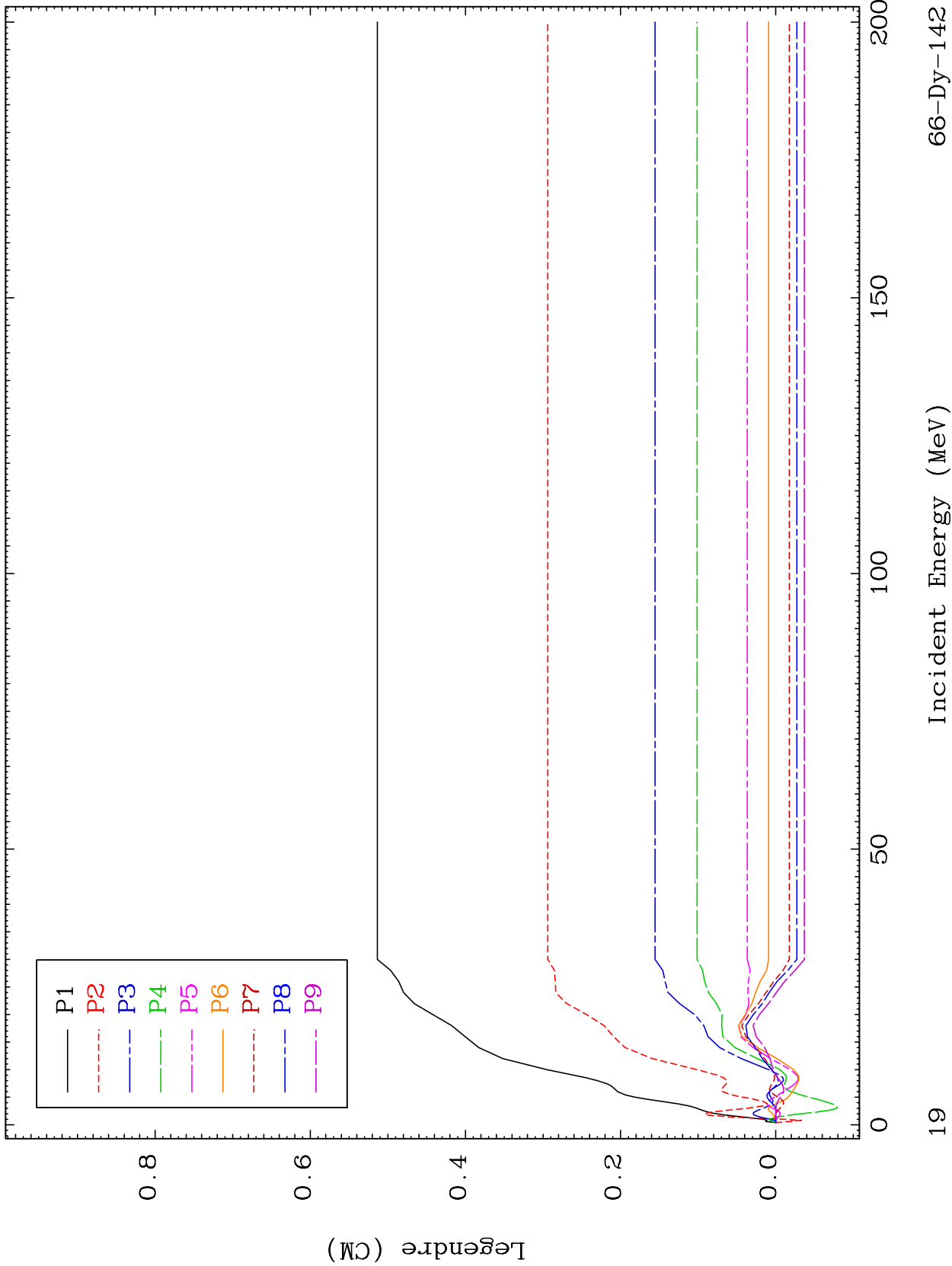
Incident Energy (MeV)

18

MAT 6583

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

66-Dy-142



19

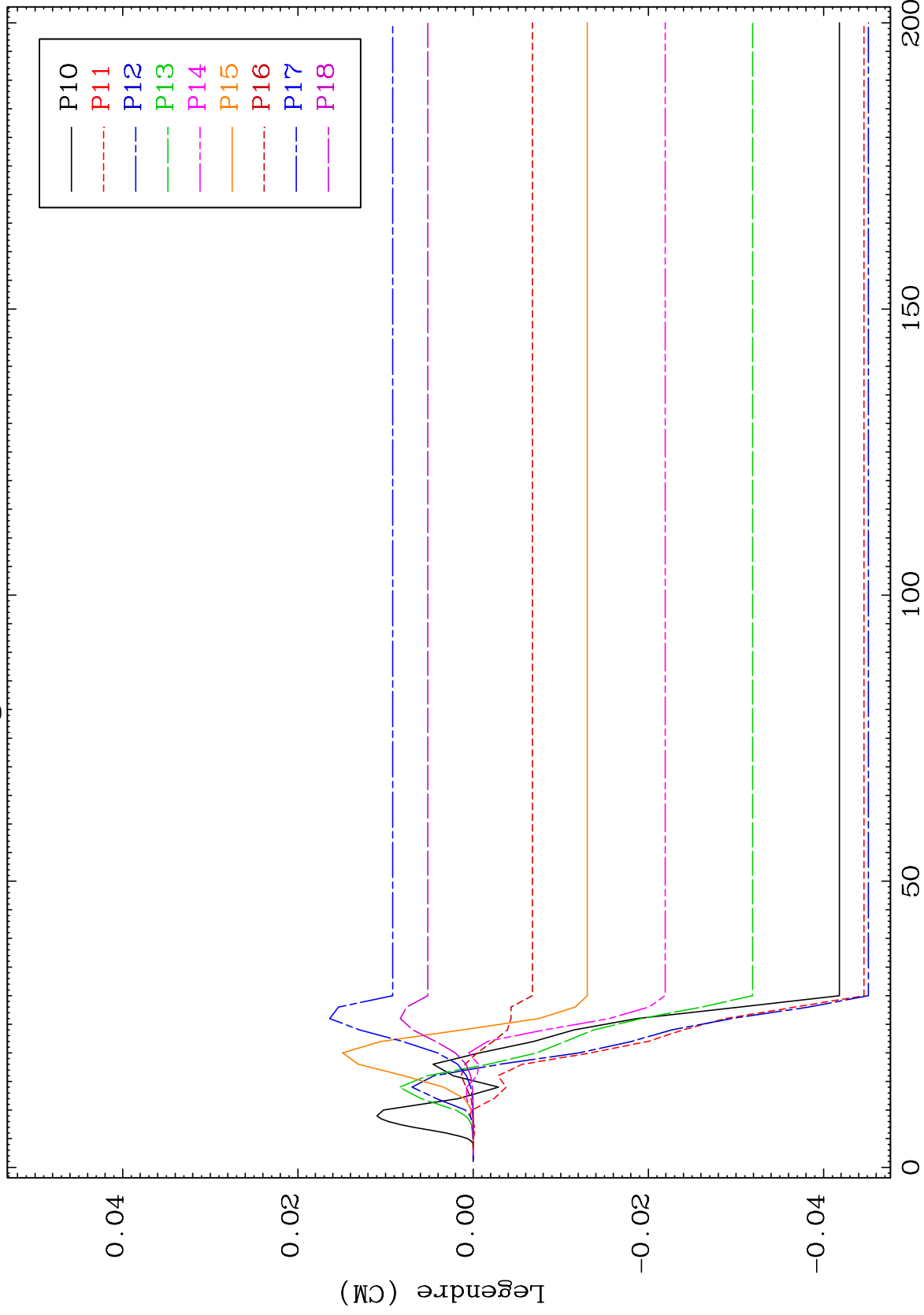
Incident Energy (MeV)

66-Dy-142

MAT 6583

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

66-Dy-142



0

50

100

150

200

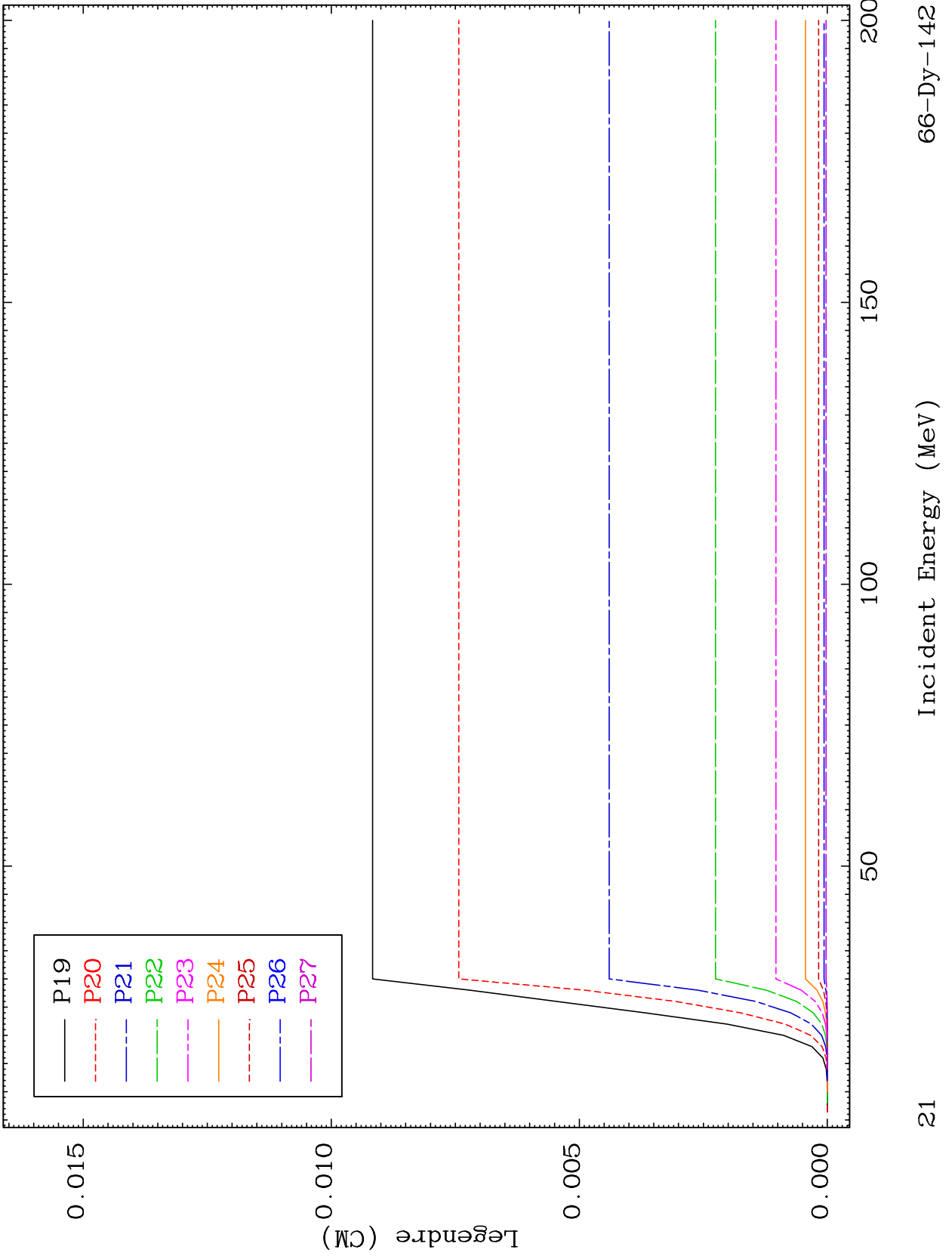
Incident Energy (MeV)

66-Dy-142

MAT 6583

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

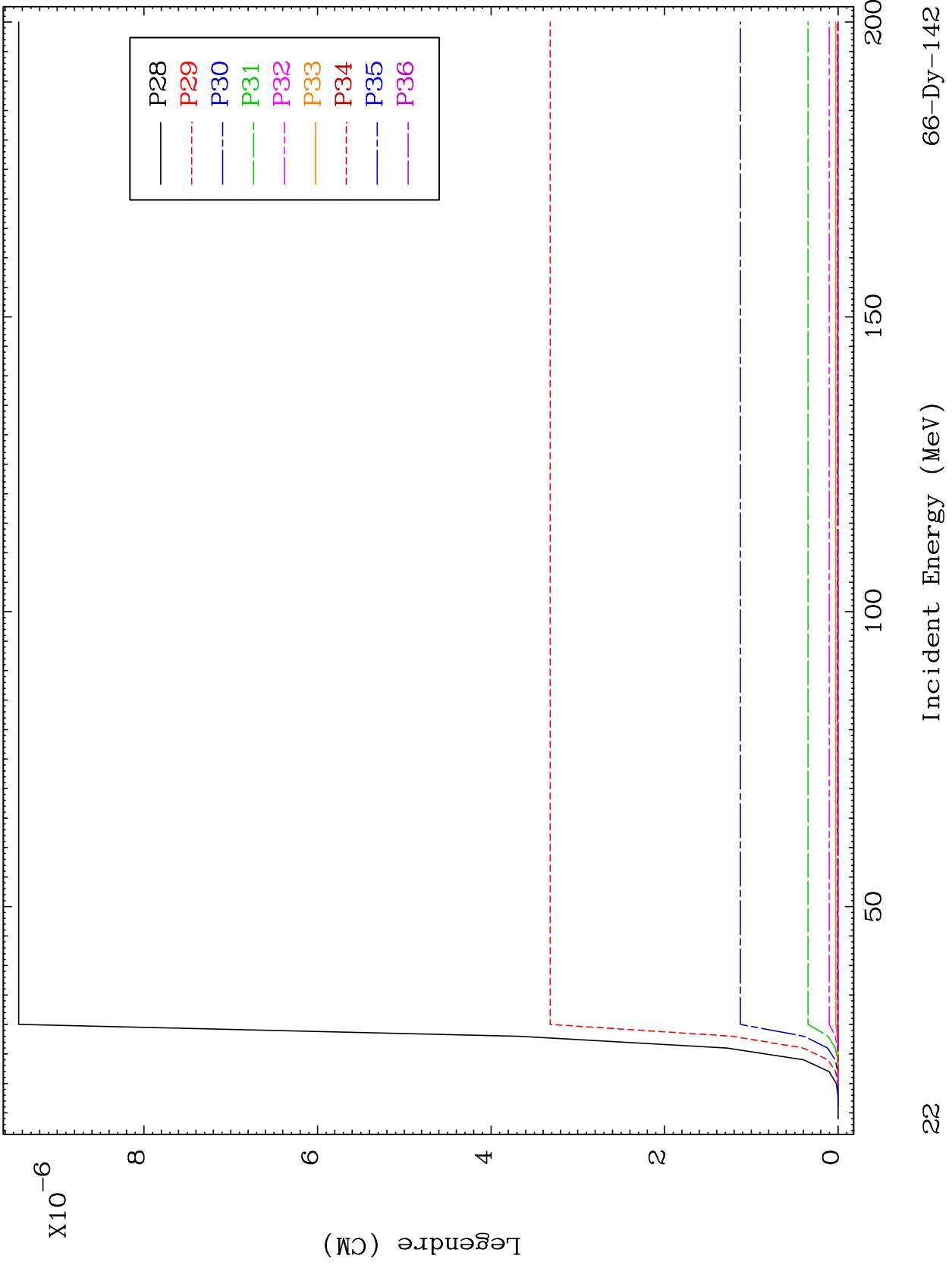
66-Dy-142



MAT 6583

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

66-Dy-142



22

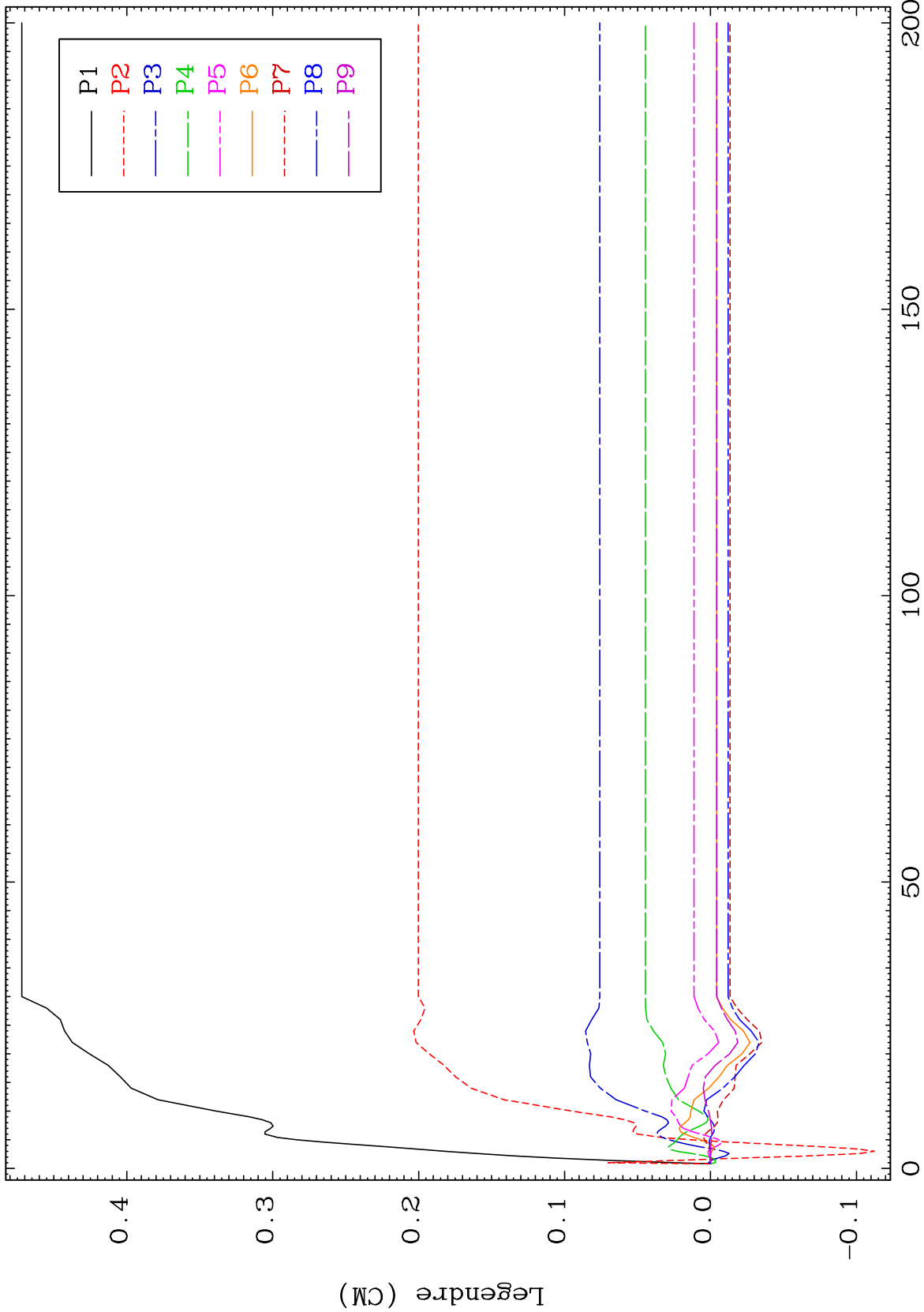
Incident Energy (MeV)

66-Dy-142

MAT 6583

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

66-Dy-142



23

Incident Energy (MeV)

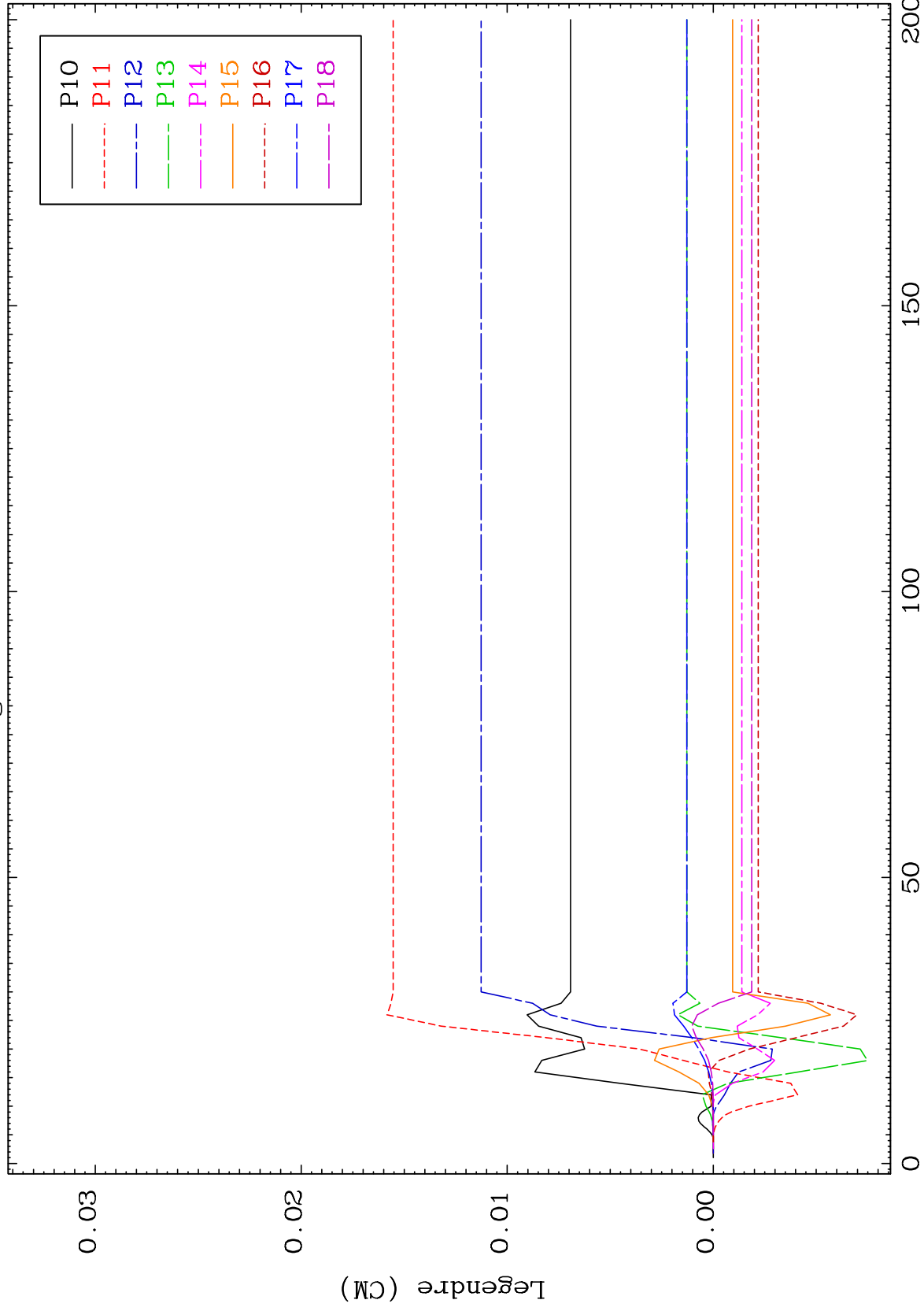
66-Dy-142



MAT 6583

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

66-Dy-142



24

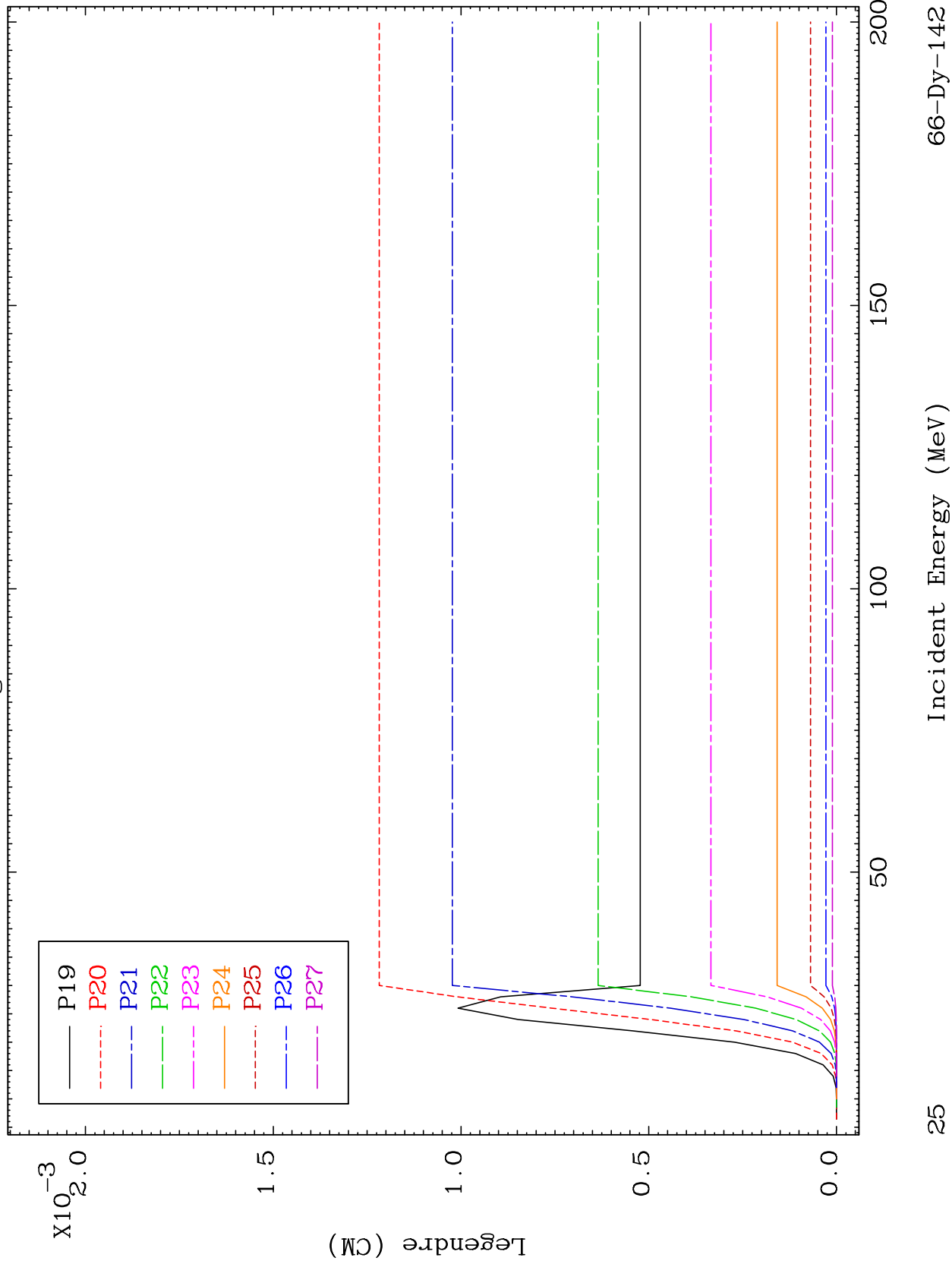
Incident Energy (MeV)

66-Dy-142

MAT 6583

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

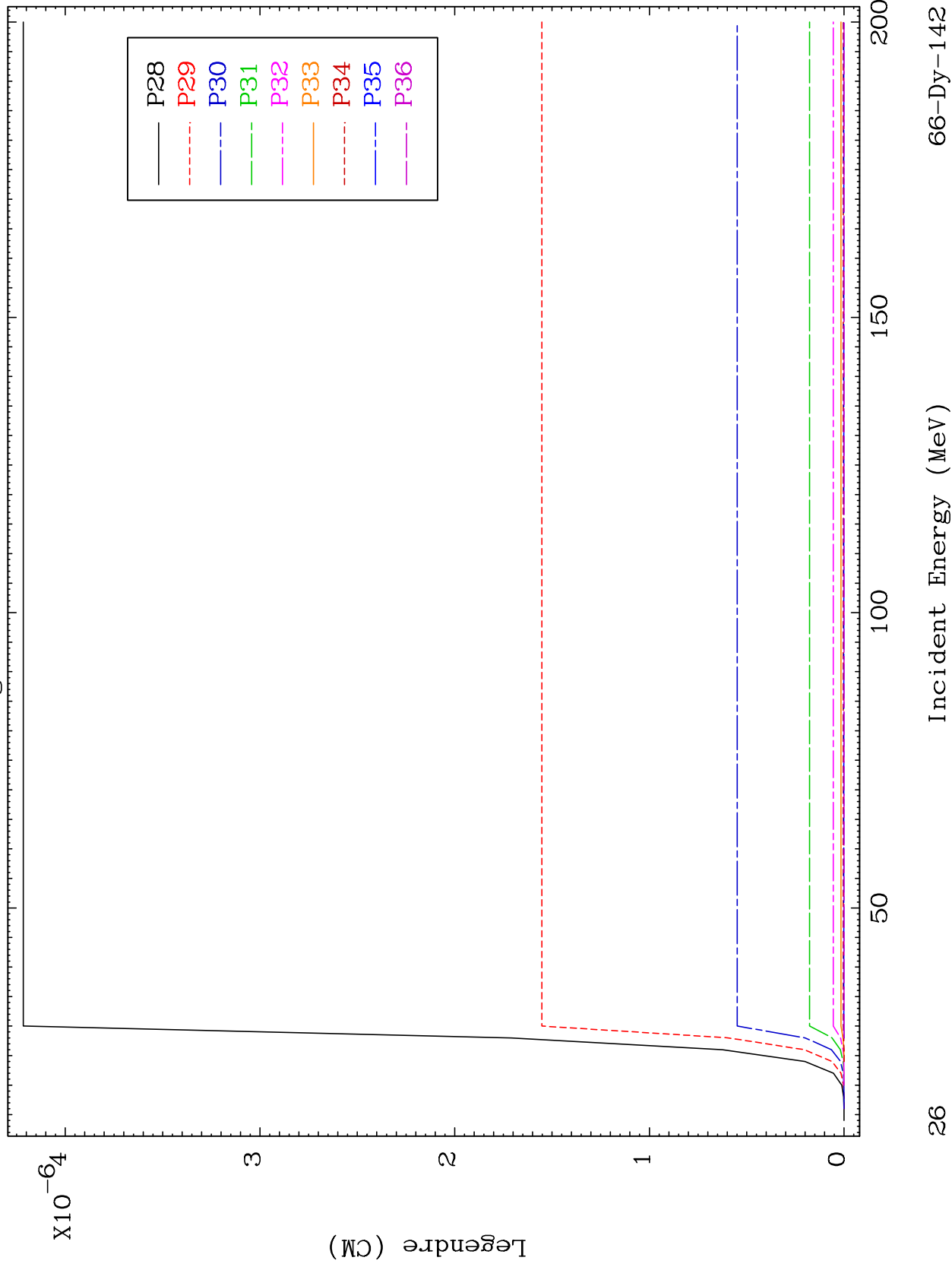
66-Dy-142



MAT 6583

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

66-Dy-142



26

Incident Energy (MeV)

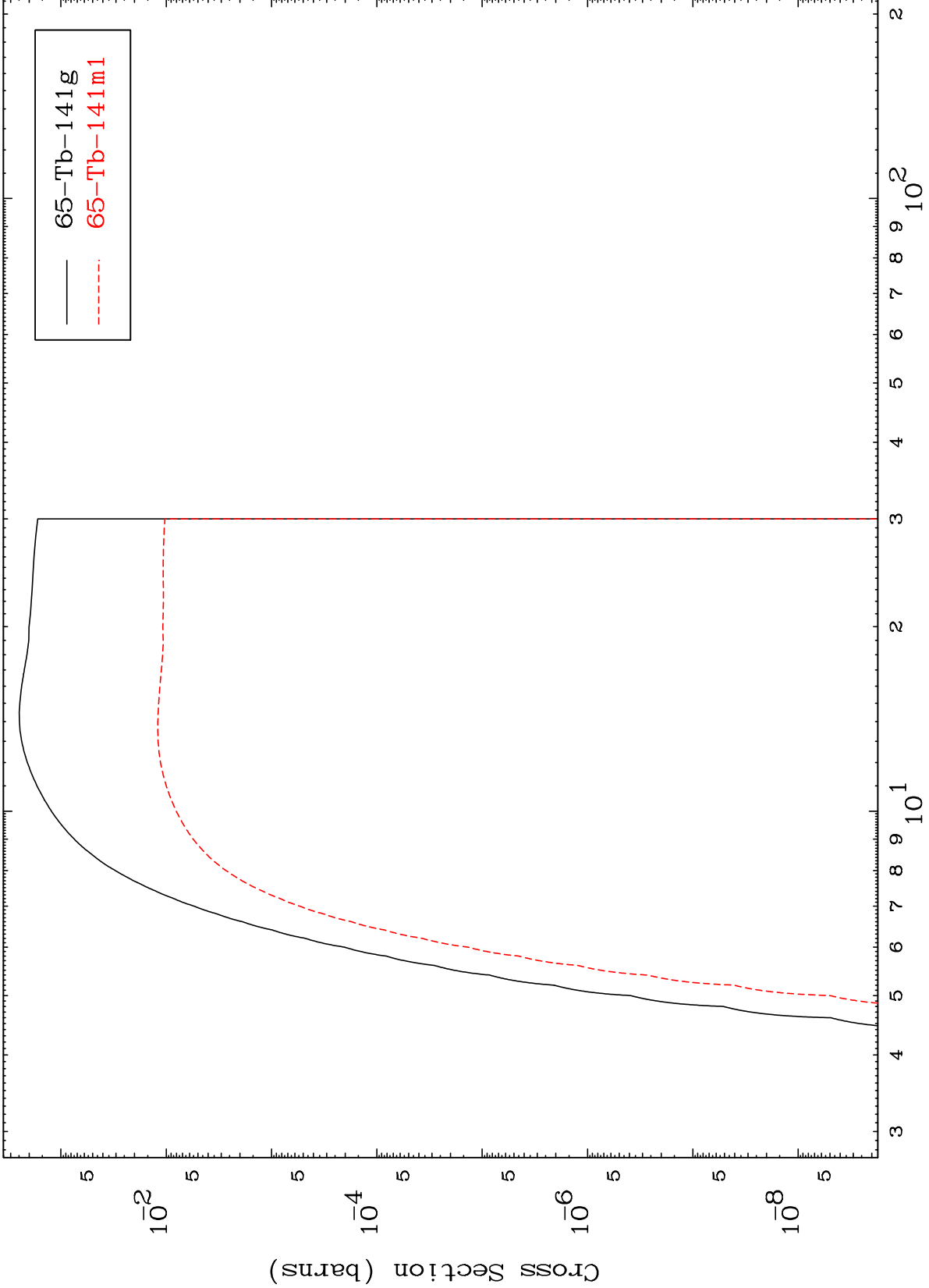
66-Dy-142

MAT 6583

(n,n') p

66-Dy-142

Radionuclide Production Cross Section



65-Tb-141g  
65-Tb-141m1

27

Incident Energy (MeV)

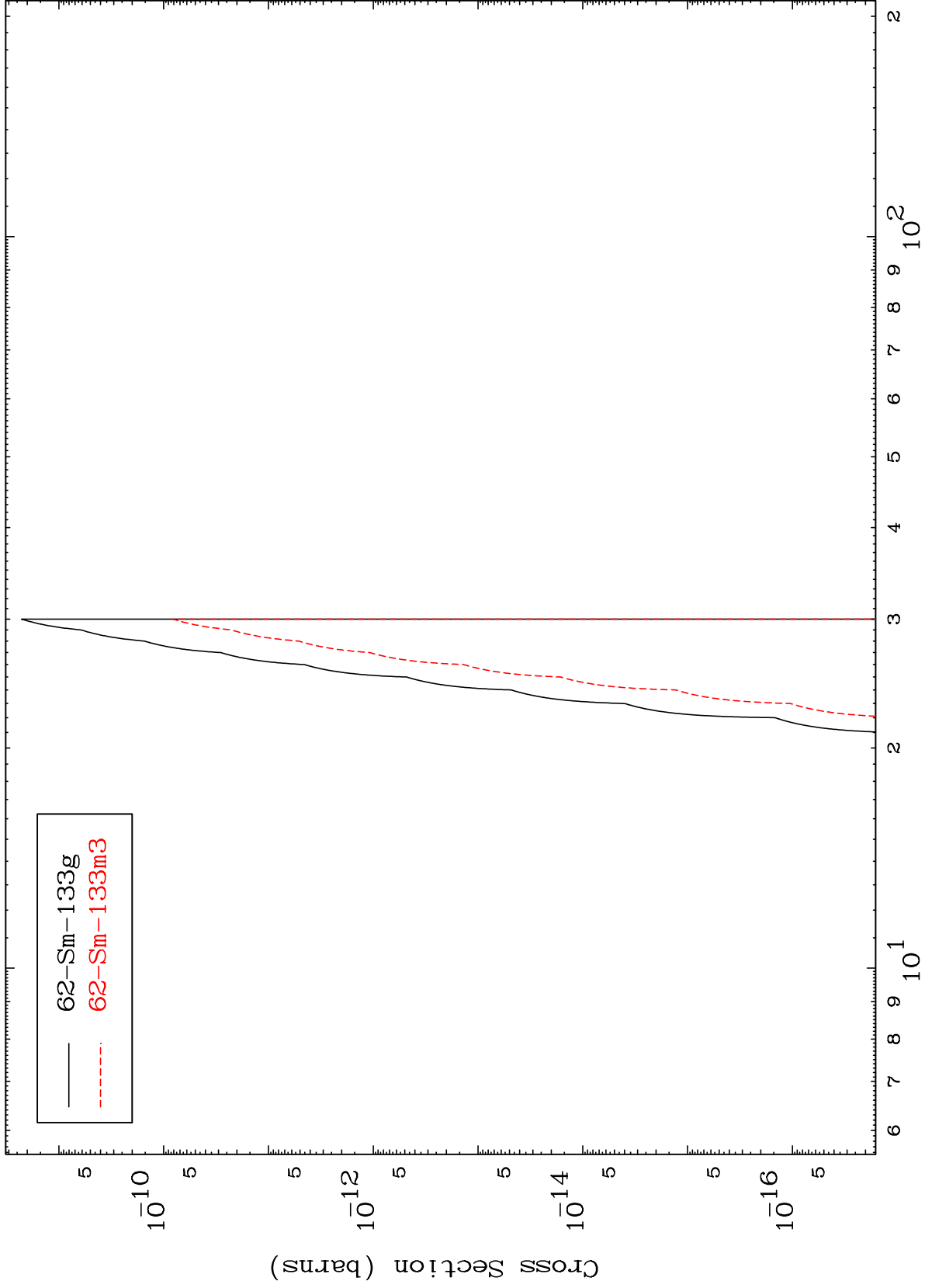
66-Dy-142

MAT 6583

(n,2n) 2α

66-Dy-142

Radionuclide Production Cross Section



28

Incident Energy (MeV)

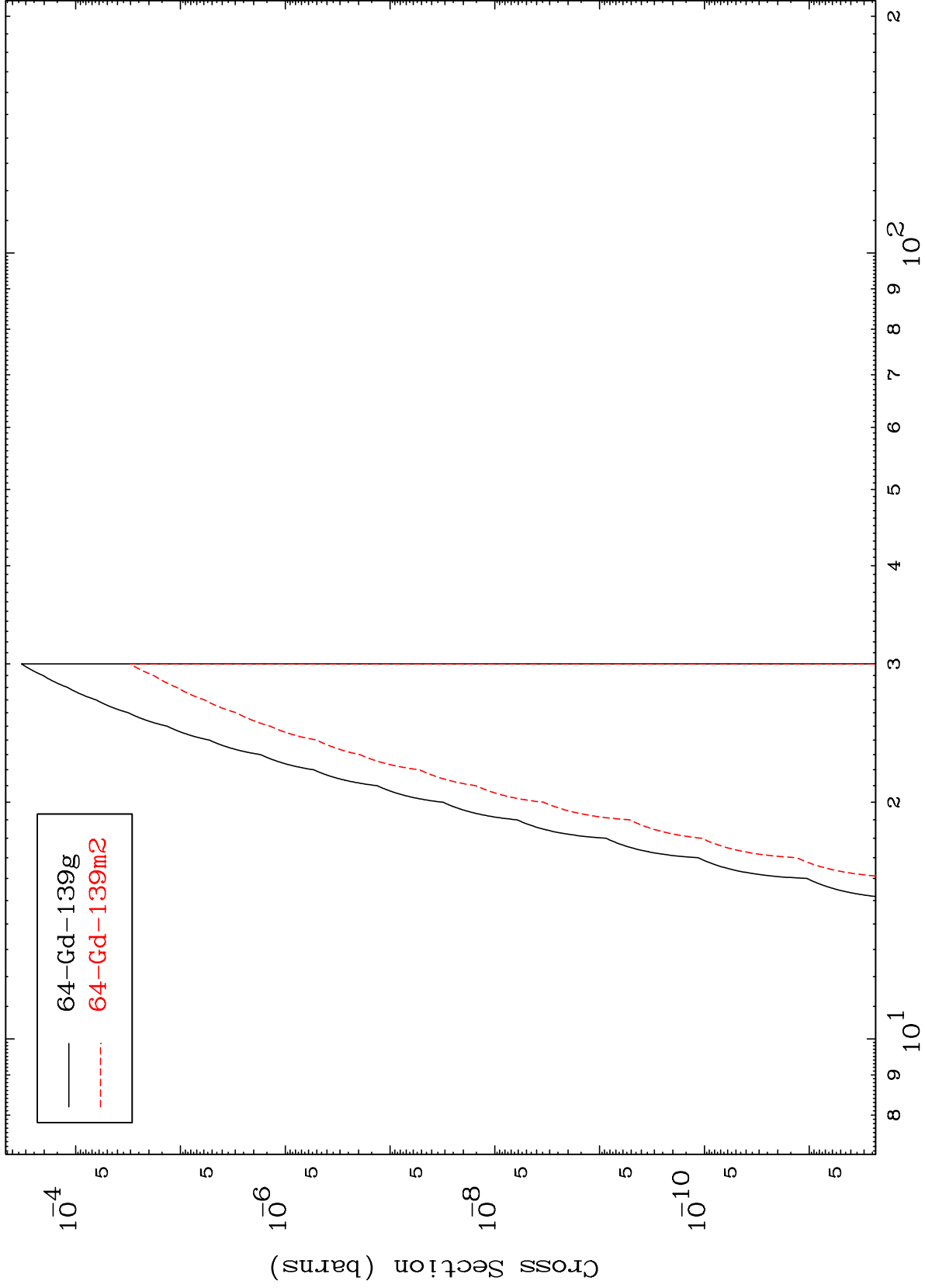
66-Dy-142

MAT 6583

(n,n') He-3

66-Dy-142

Radionuclide Production Cross Section



64-Gd-139g  
64-Gd-139m2

29

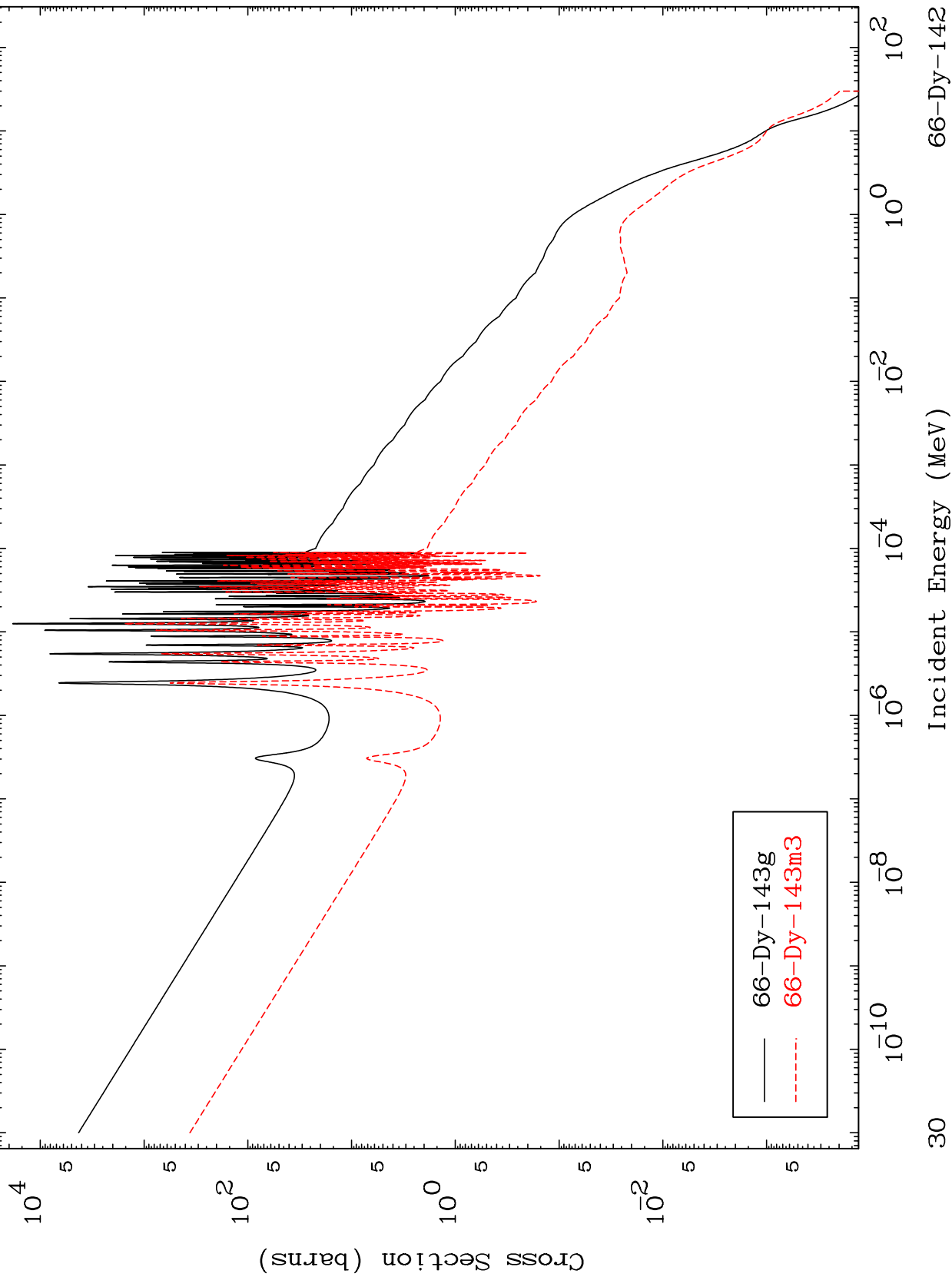
Incident Energy (MeV)

66-Dy-142

MAT 6583

66-Dy-142

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



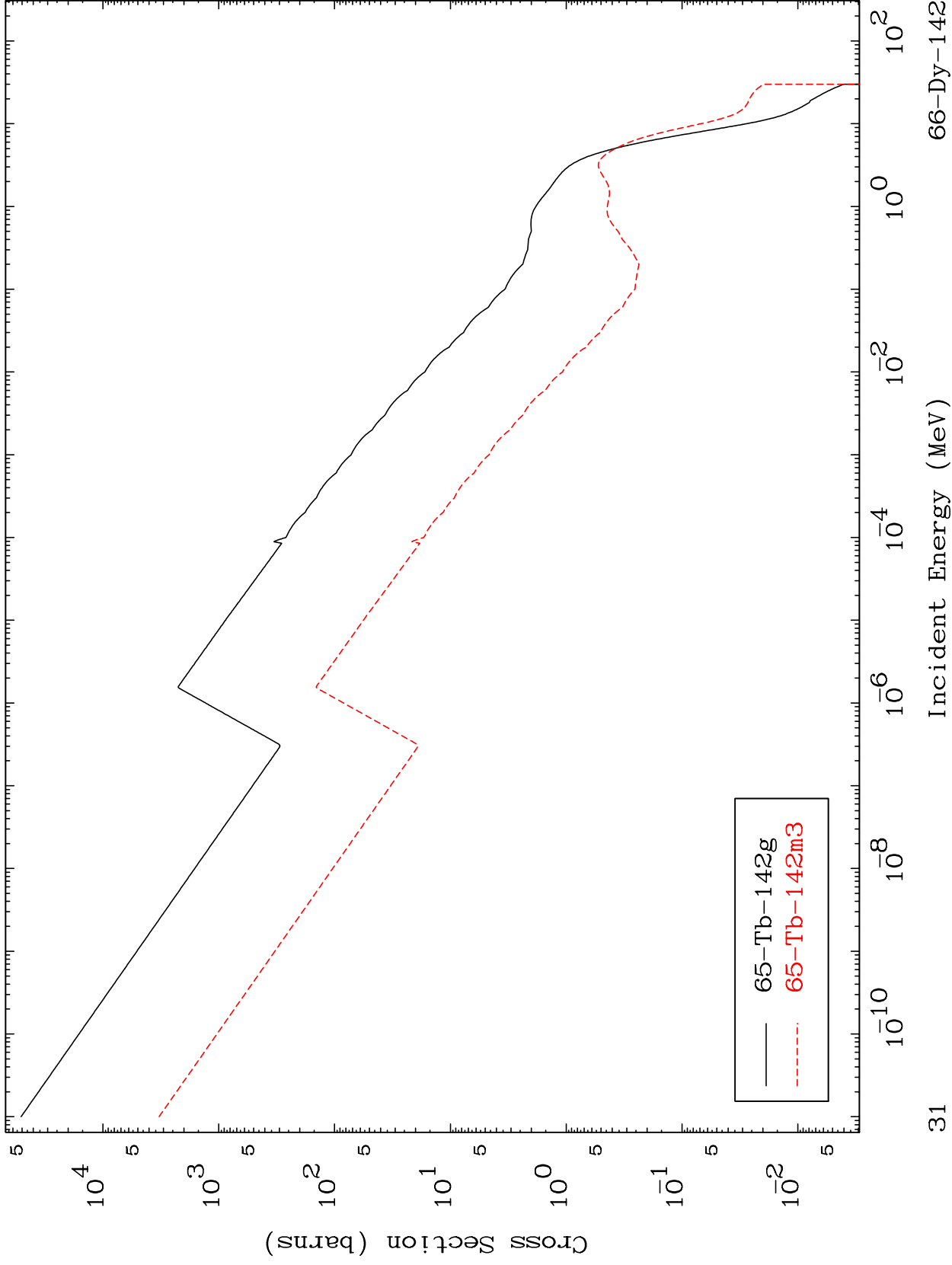
30

66-Dy-142

MAT 6583

66-Dy-142

(n,p)  
Radionuclide Production Cross Section



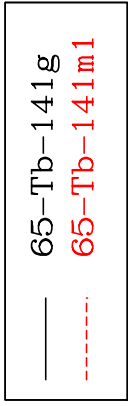
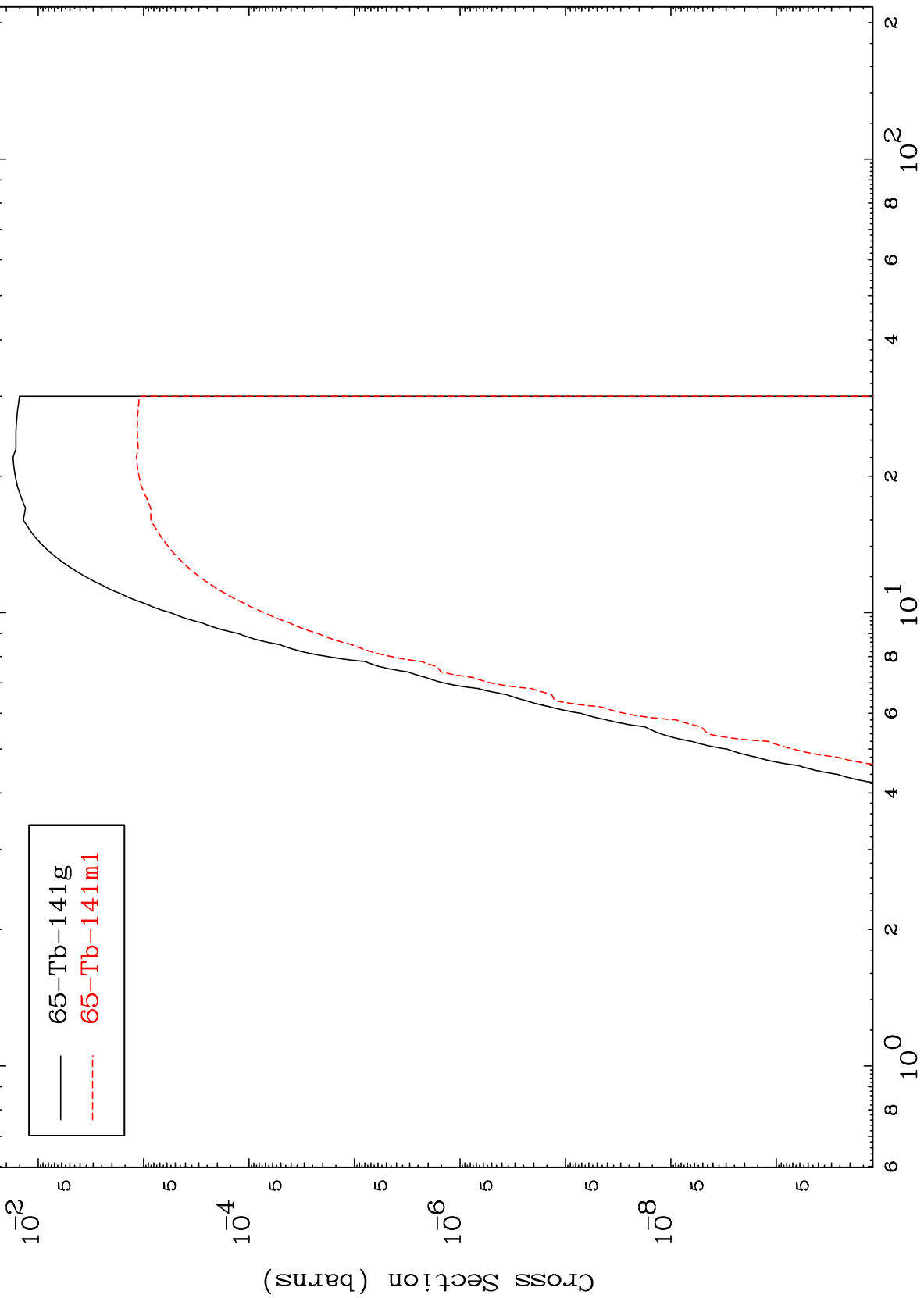


MAT 6583

(n,d)

66-Dy-142

Radionuclide Production Cross Section



Incident Energy (MeV)

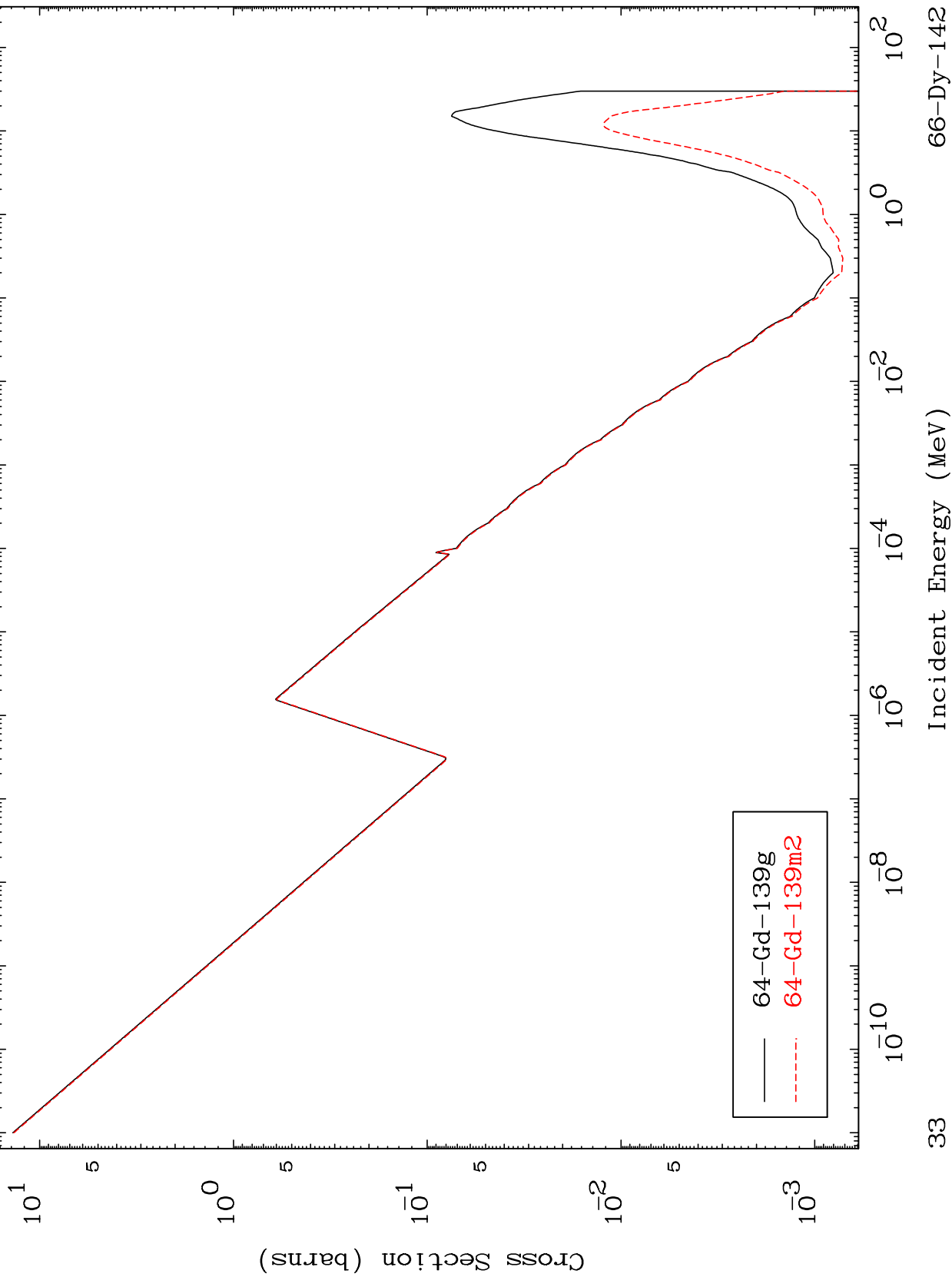
66-Dy-142

32

MAT 6583

66-Dy-142

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

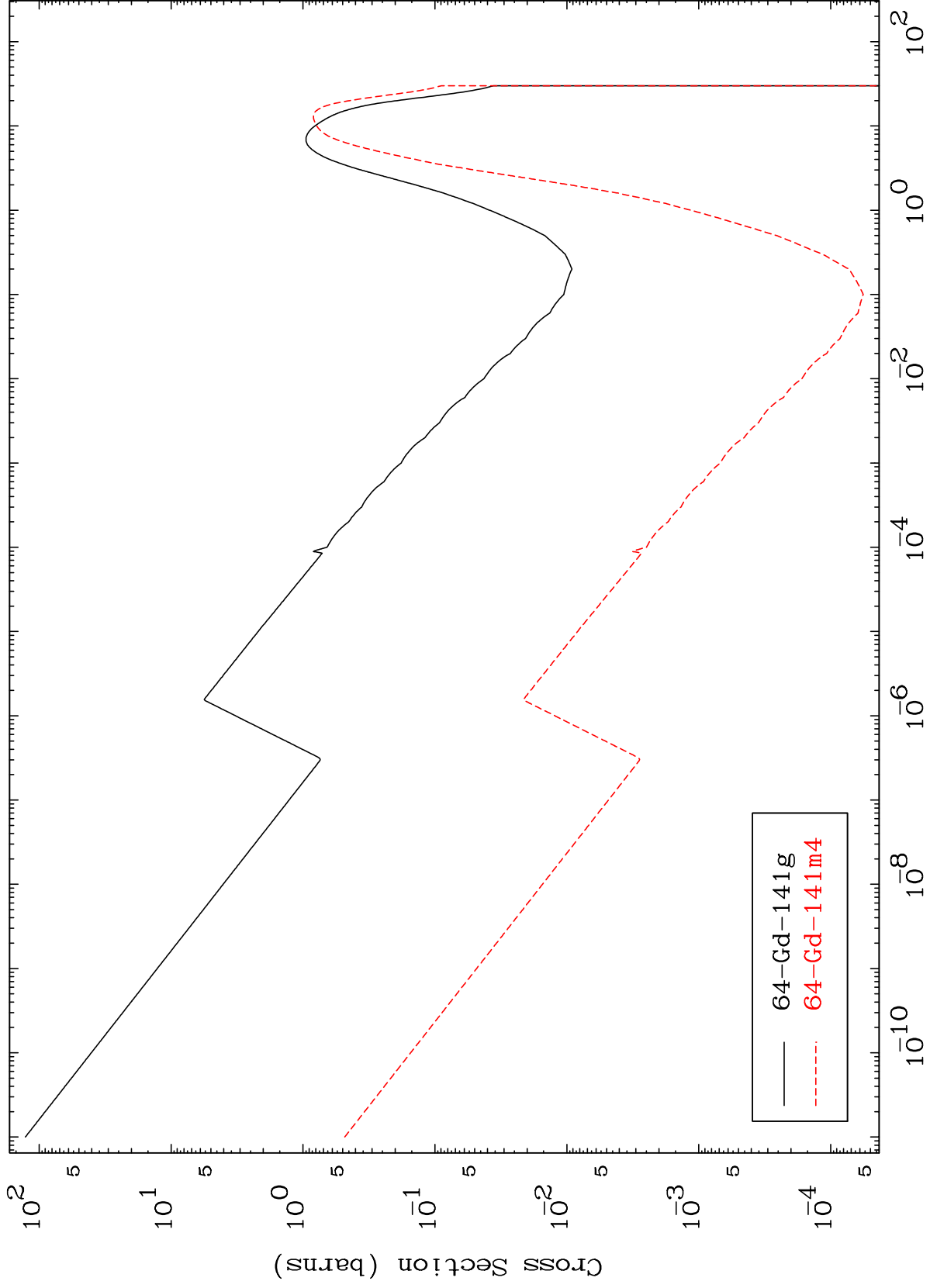


MAT 6583

(n,2p)

66-Dy-142

Radionuclide Production Cross Section

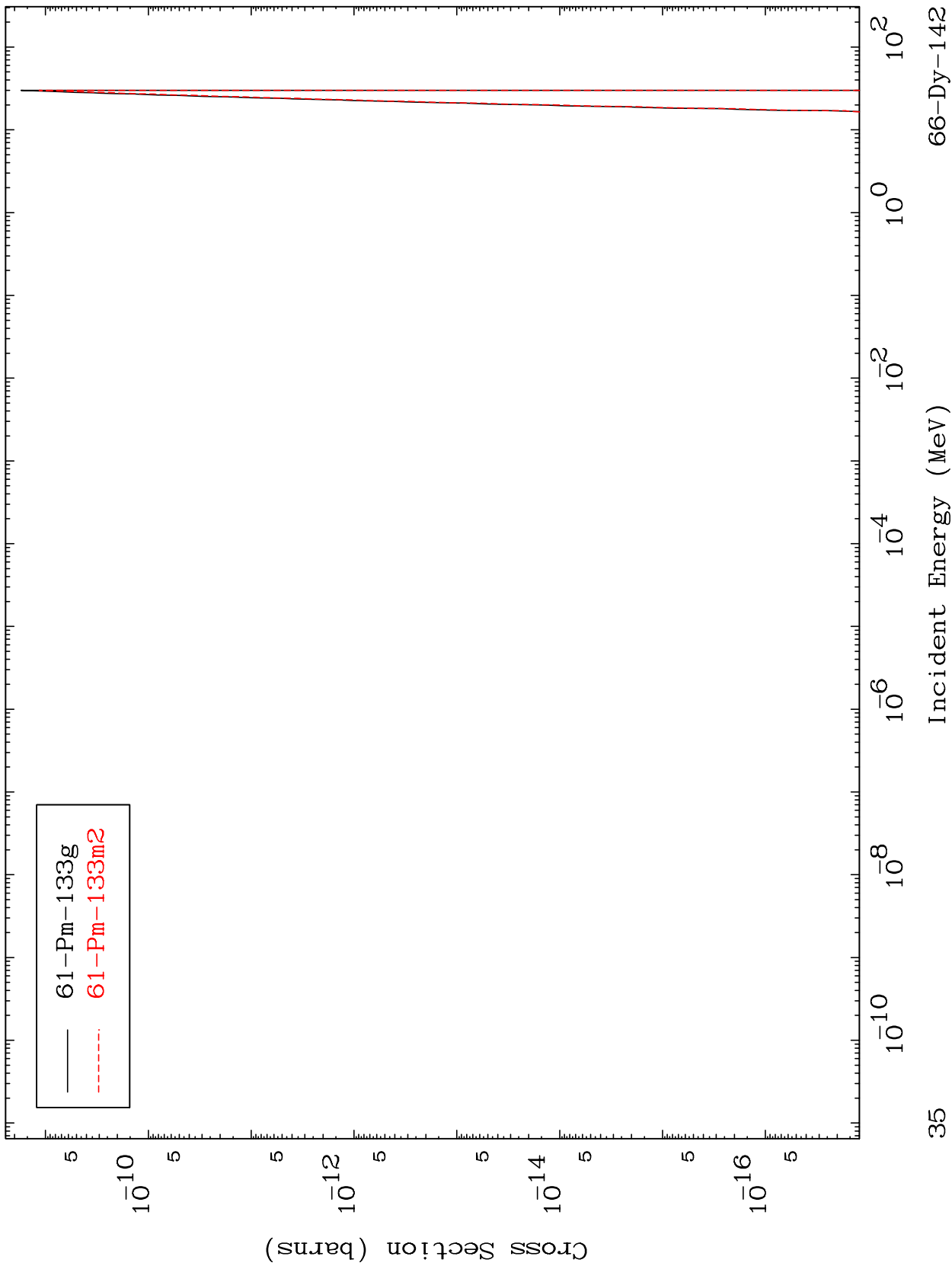


MAT 6583

(n,d)  $2\alpha$

66-Dy-142

Radionuclide Production Cross Section

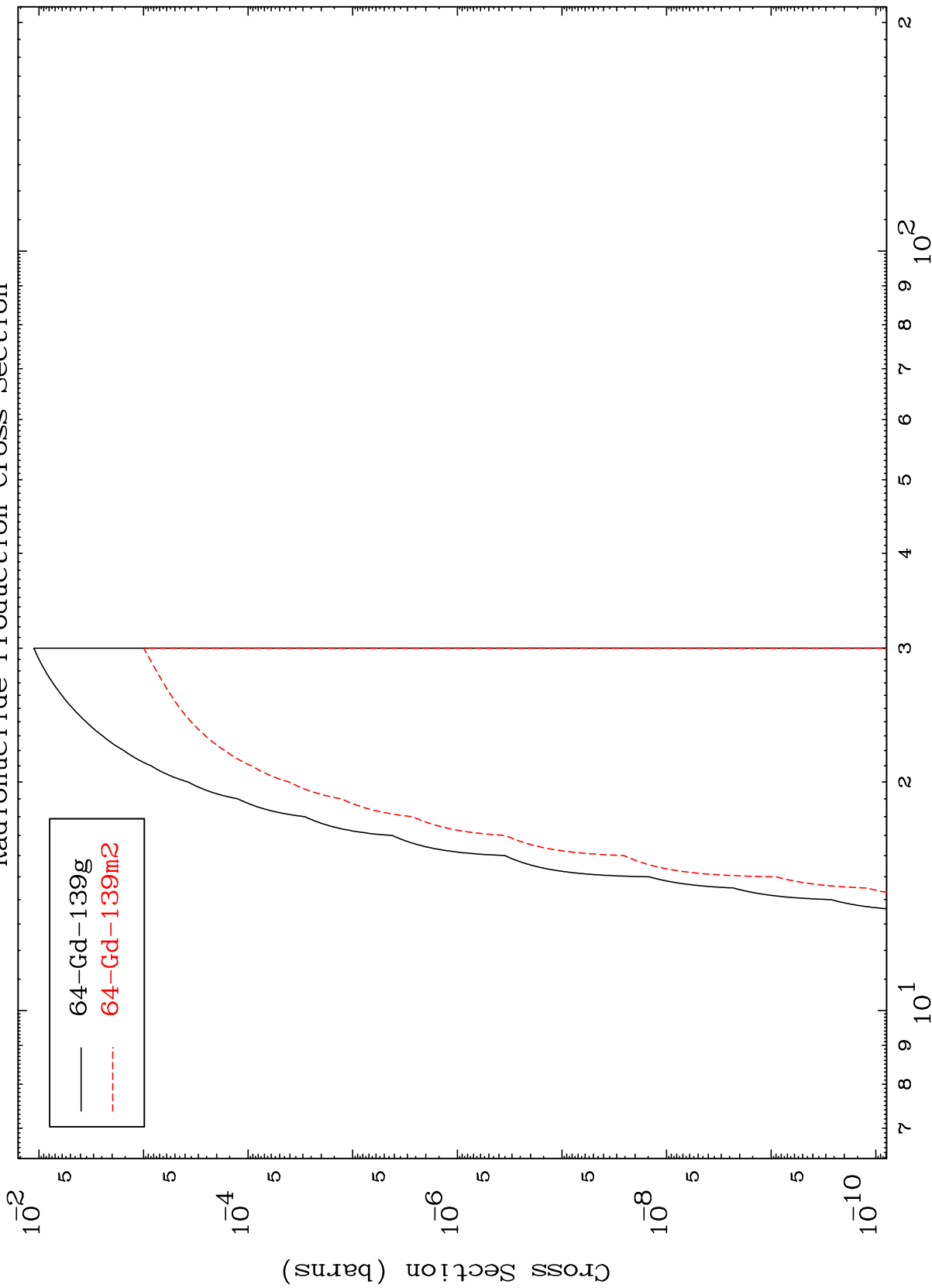


MAT 6583

(n,p) t

66-Dy-142

Radionuclide Production Cross Section



64-Gd-139g  
64-Gd-139m2

36

Incident Energy (MeV)

66-Dy-142