

Program EVALPLOT
(Version 2018-1)

by

Dermott E. Cullen
(Present Contact Information)

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

Tele: 925-443-1911

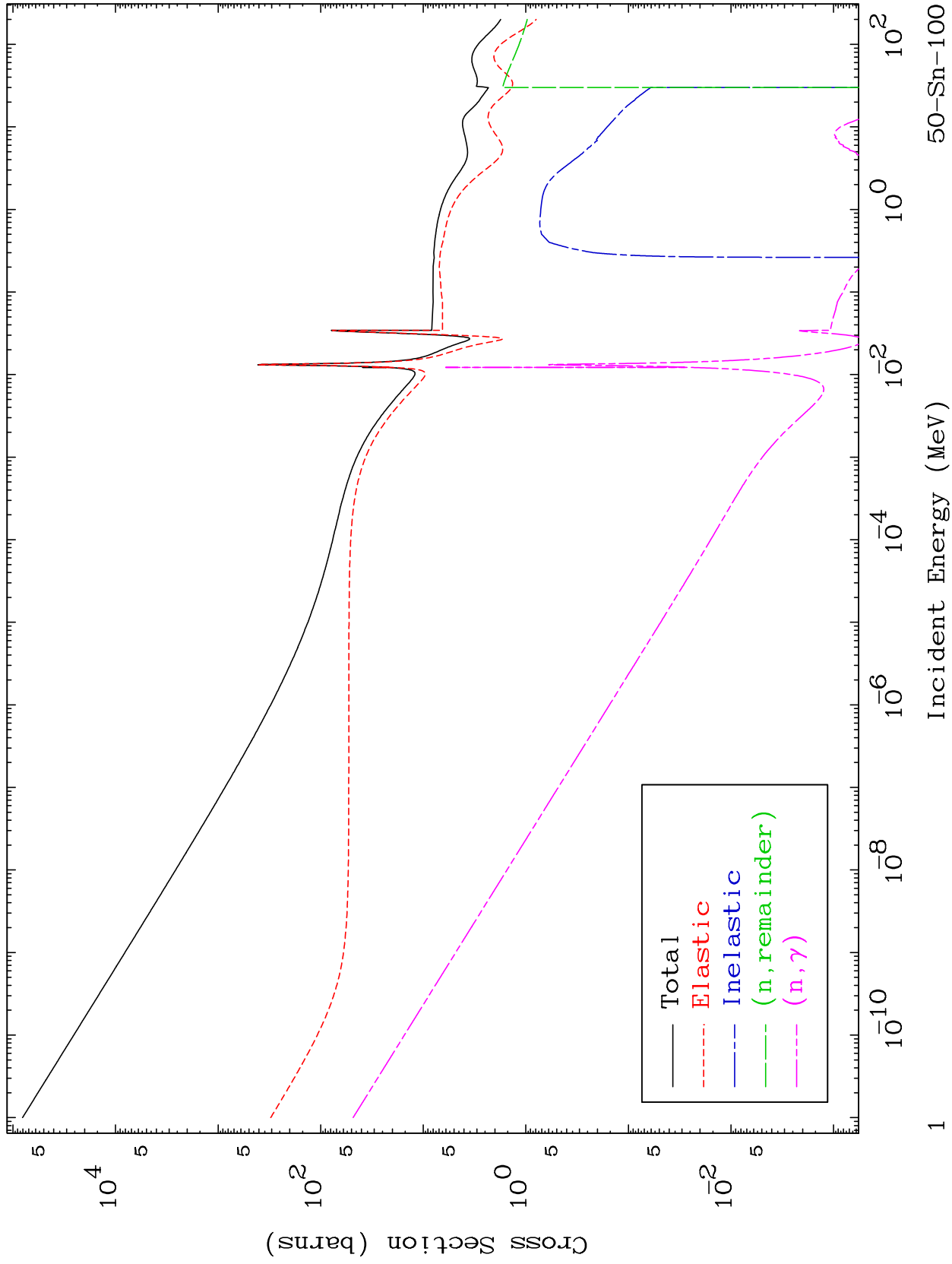
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 4989

Major
293 Kelvin Cross Sections

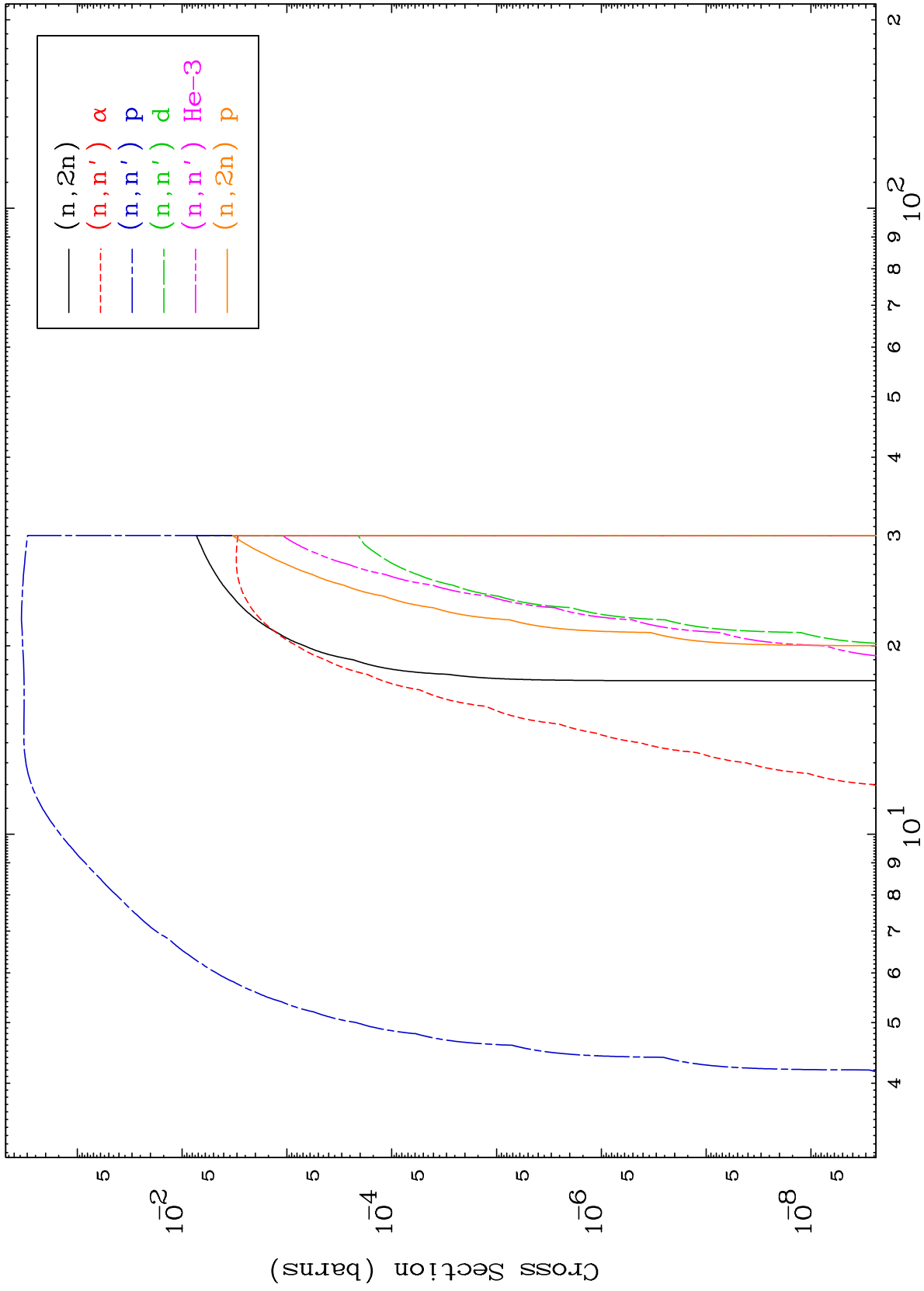
50-Sn-100



MAT 4989

Neutron Production
293 Kelvin Cross Sections

50-Sn-100



2

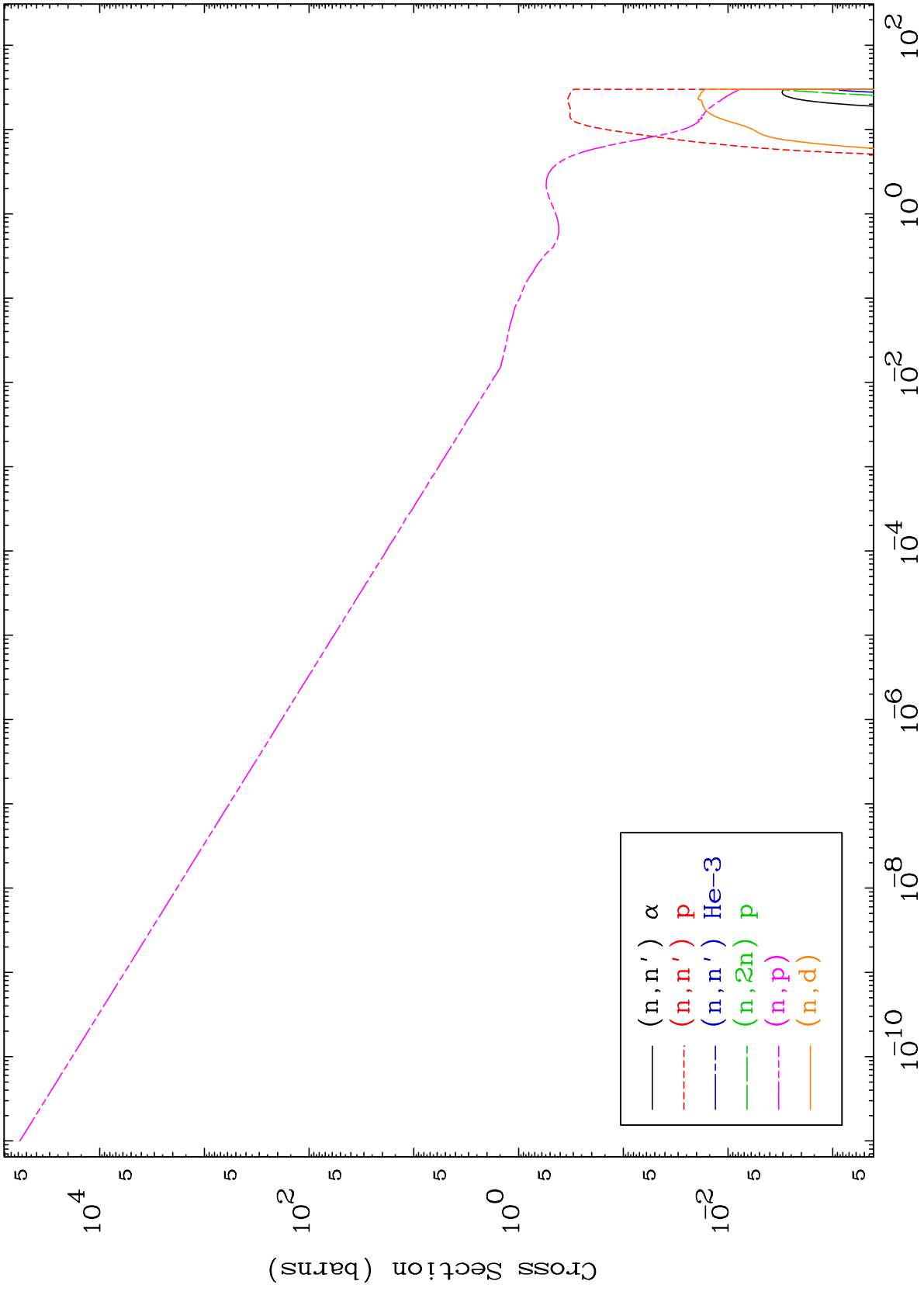
Incident Energy (MeV)

50-Sn-100

MAT 4989

293 Kelvin Cross Sections

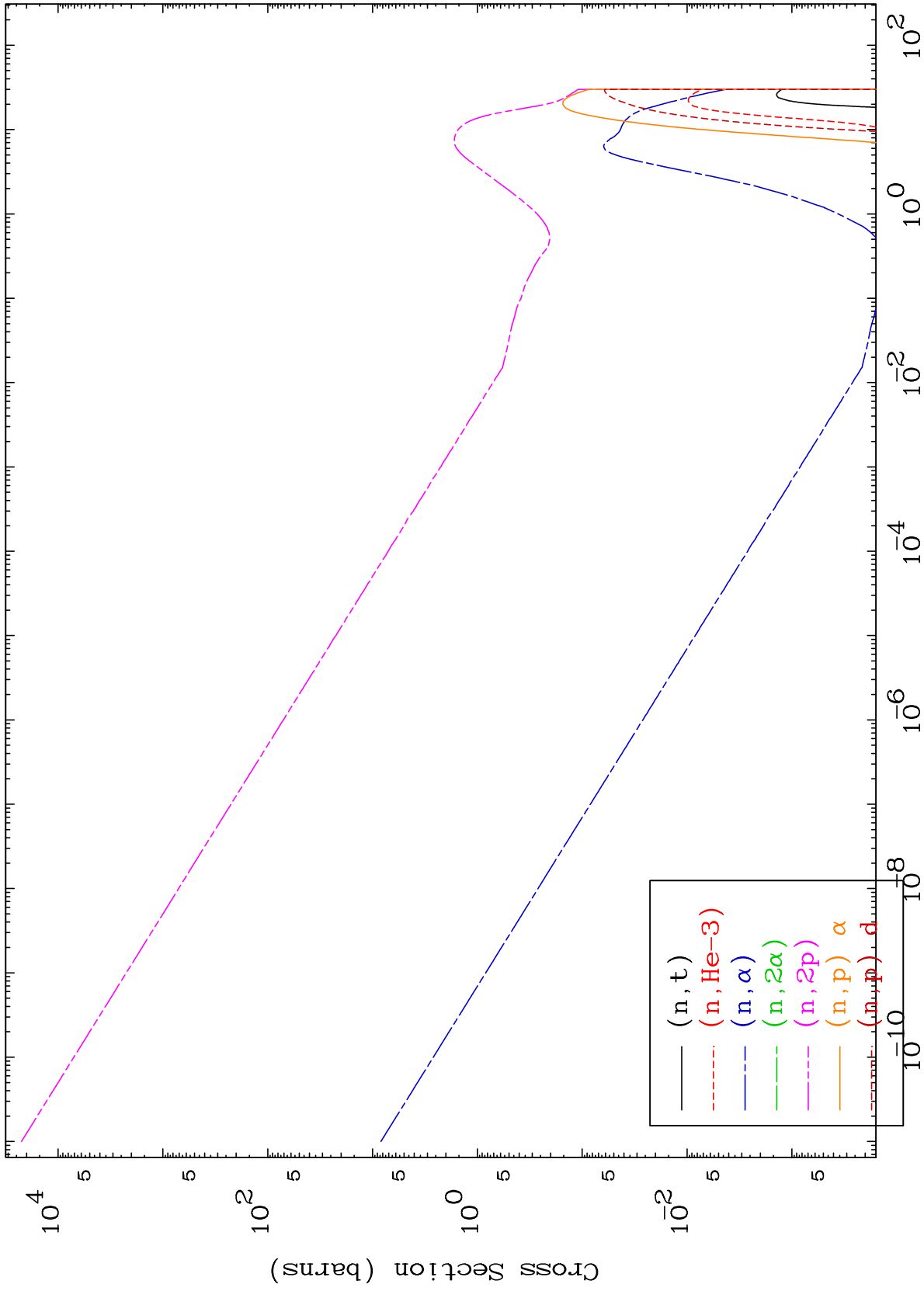
50-Sn-100



MAT 4989

293 Kelvin Cross Sections

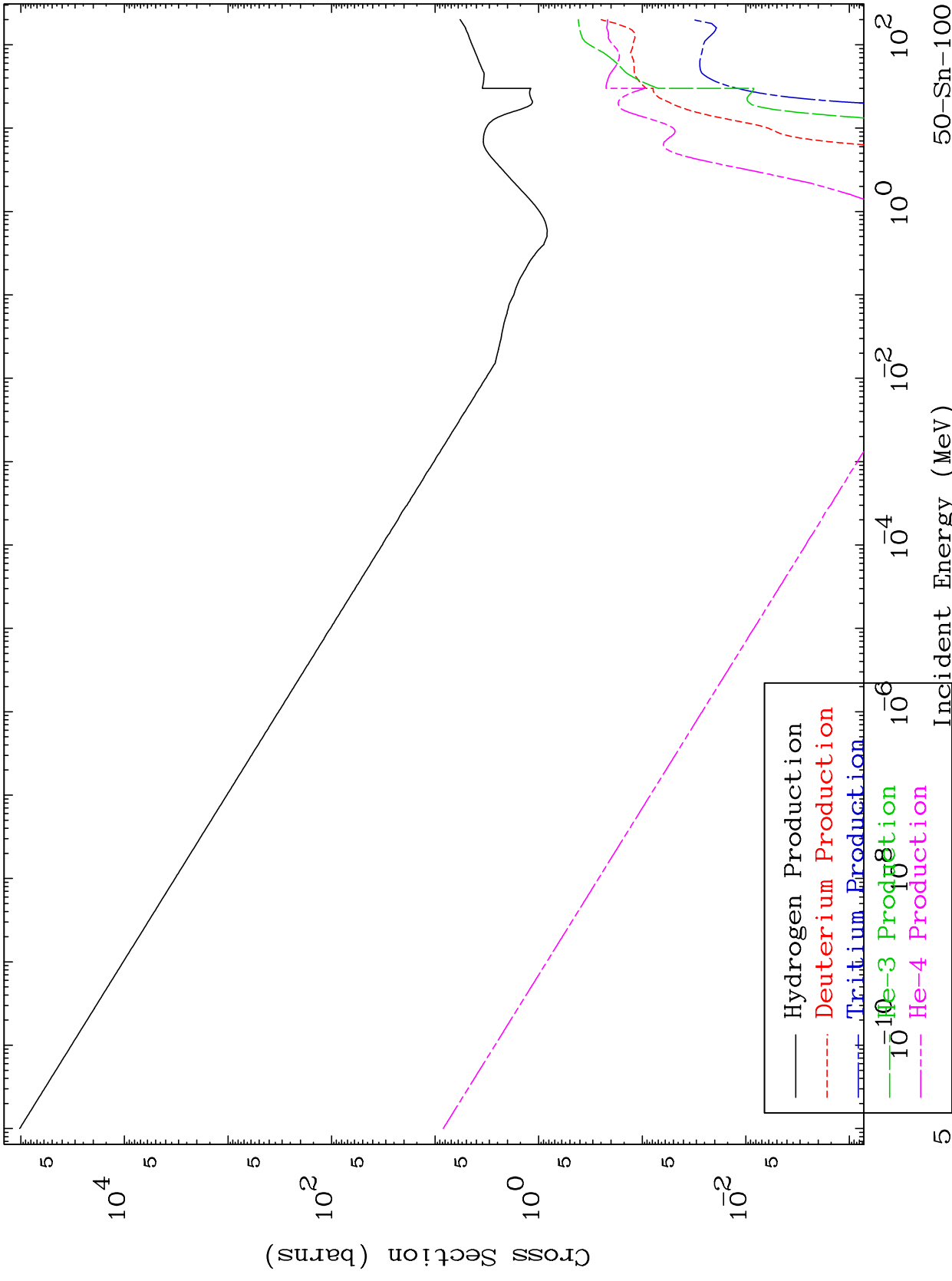
50-Sn-100



MAT 4989

Particle Production
293 Kelvin Cross Sections

50-Sn-100

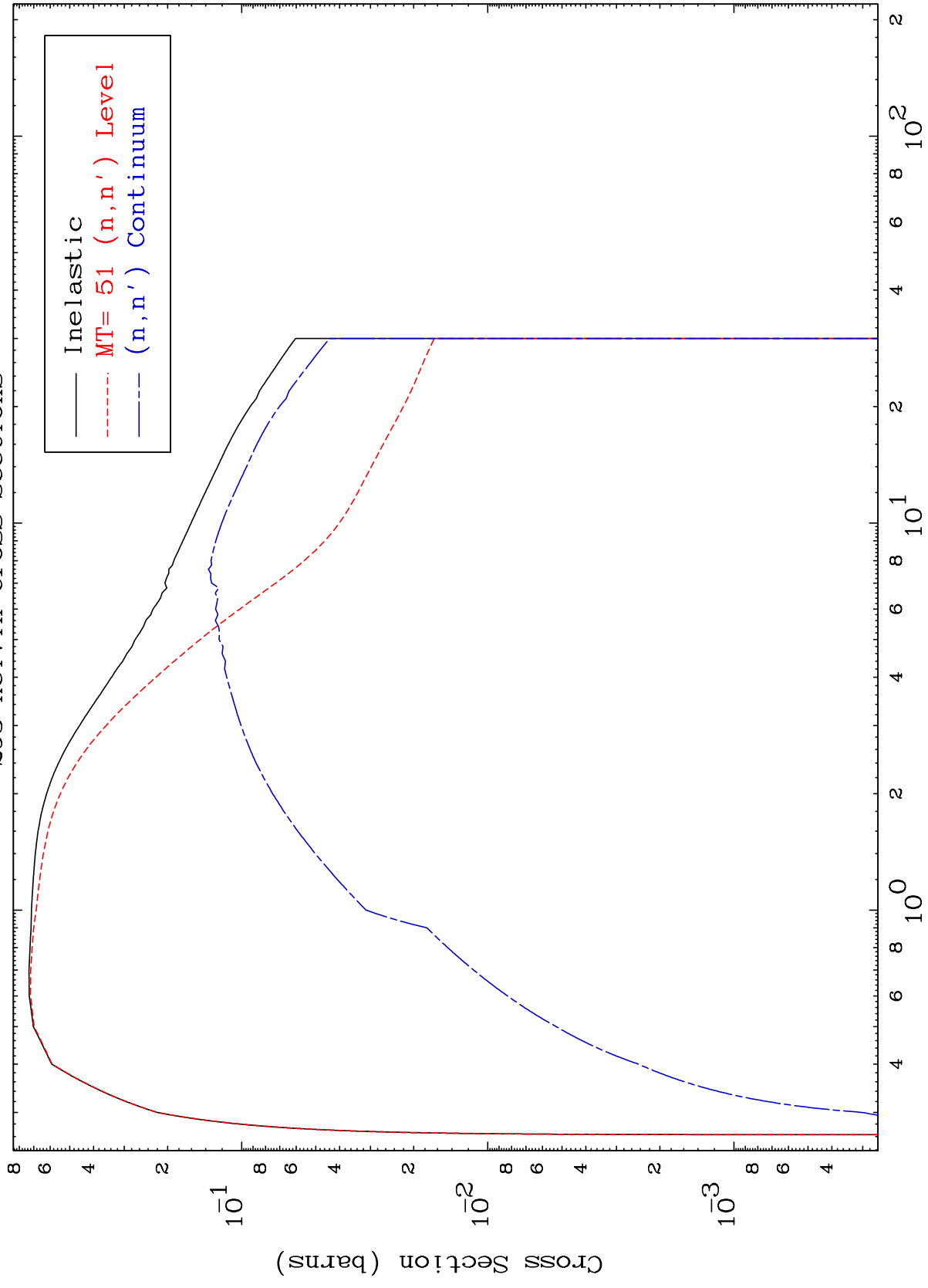


5

MAT 4989

(n,n') Level
293 Kelvin Cross Sections

50-Sn-100



6

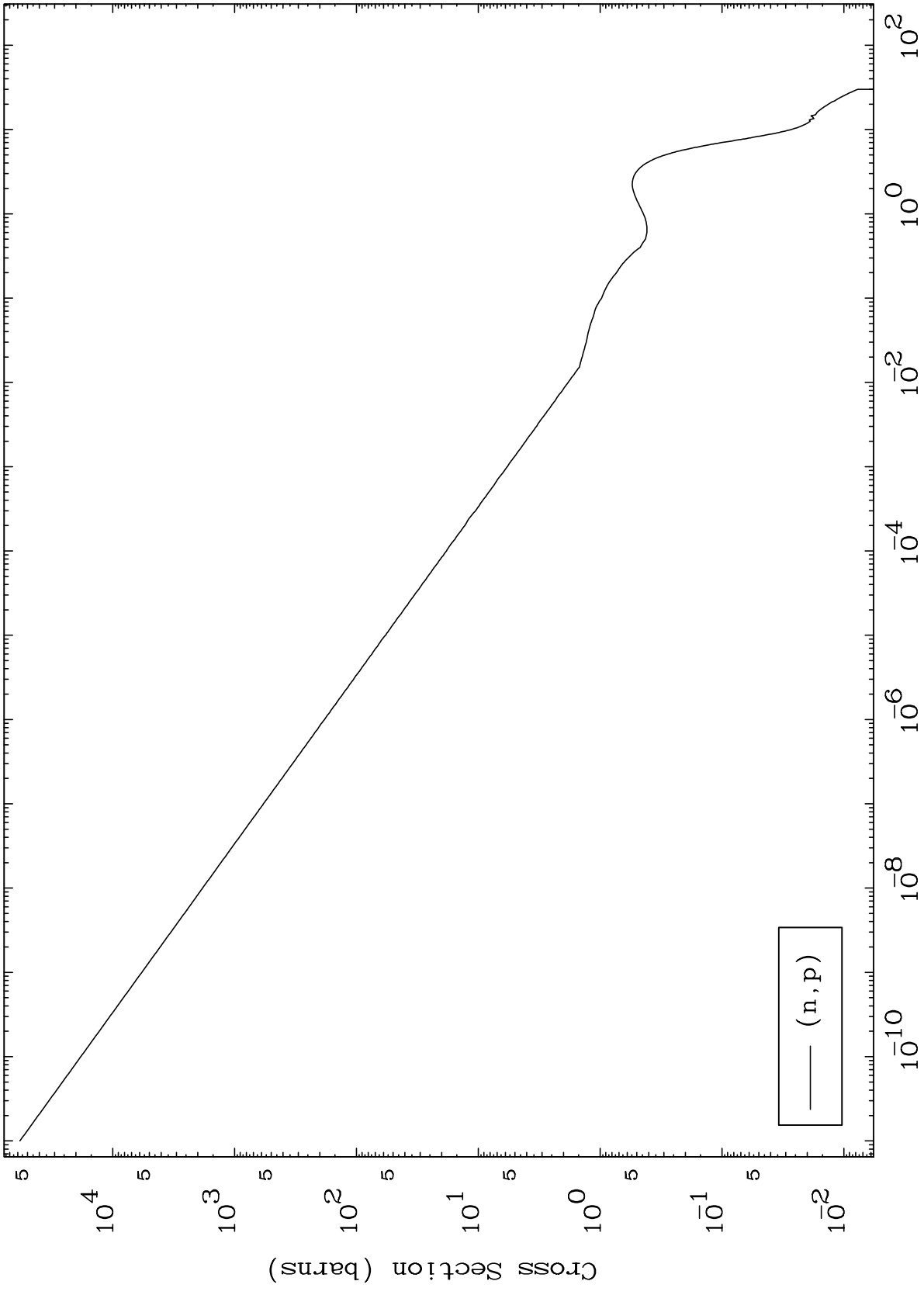
Incident Energy (MeV)

50-Sn-100

MAT 4989

(n,p) Levels
293 Kelvin Cross Sections

50-Sn-100

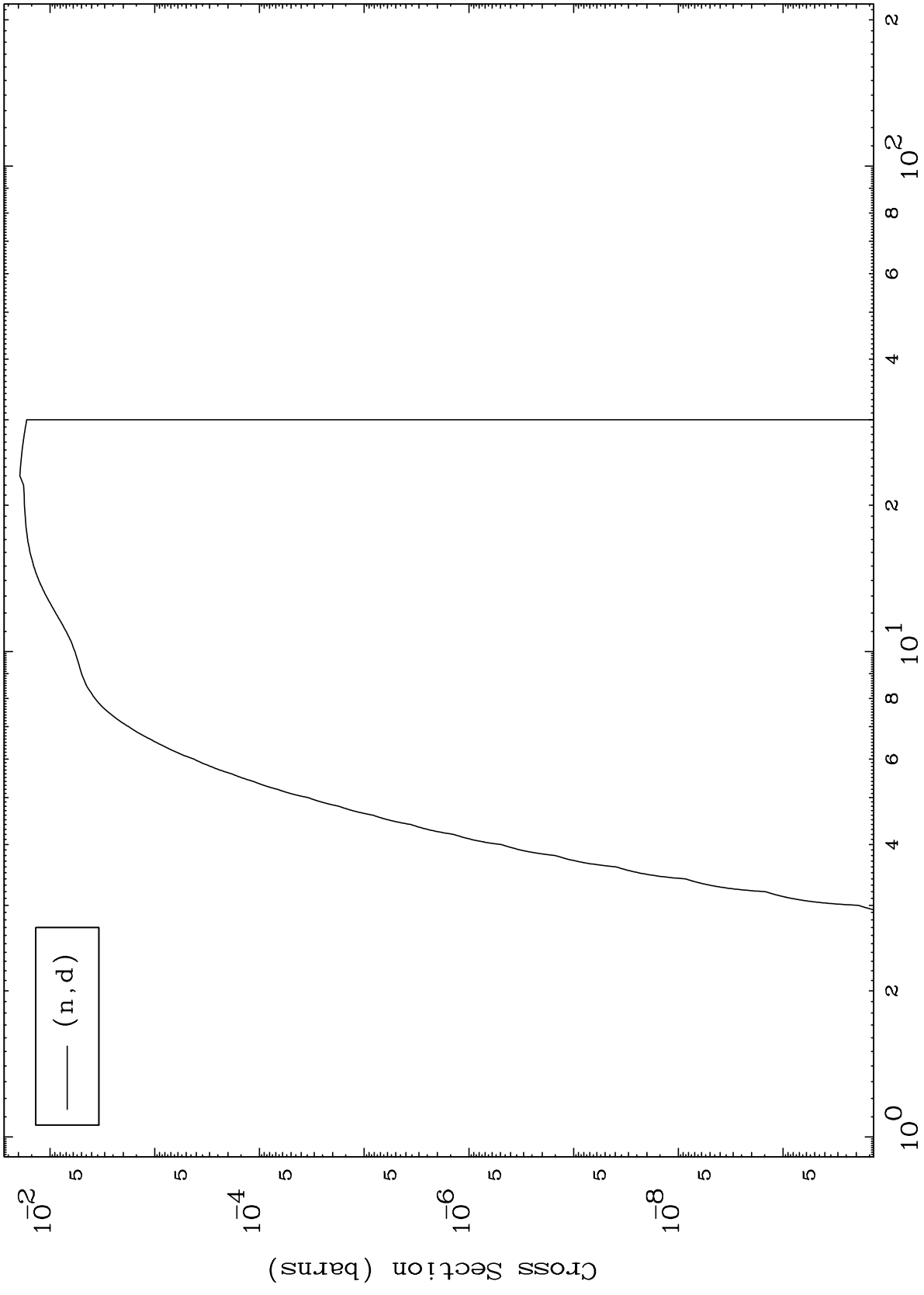


— (n, p)

MAT 4989

(n,d) Levels
293 Kelvin Cross Sections

50-Sn-100



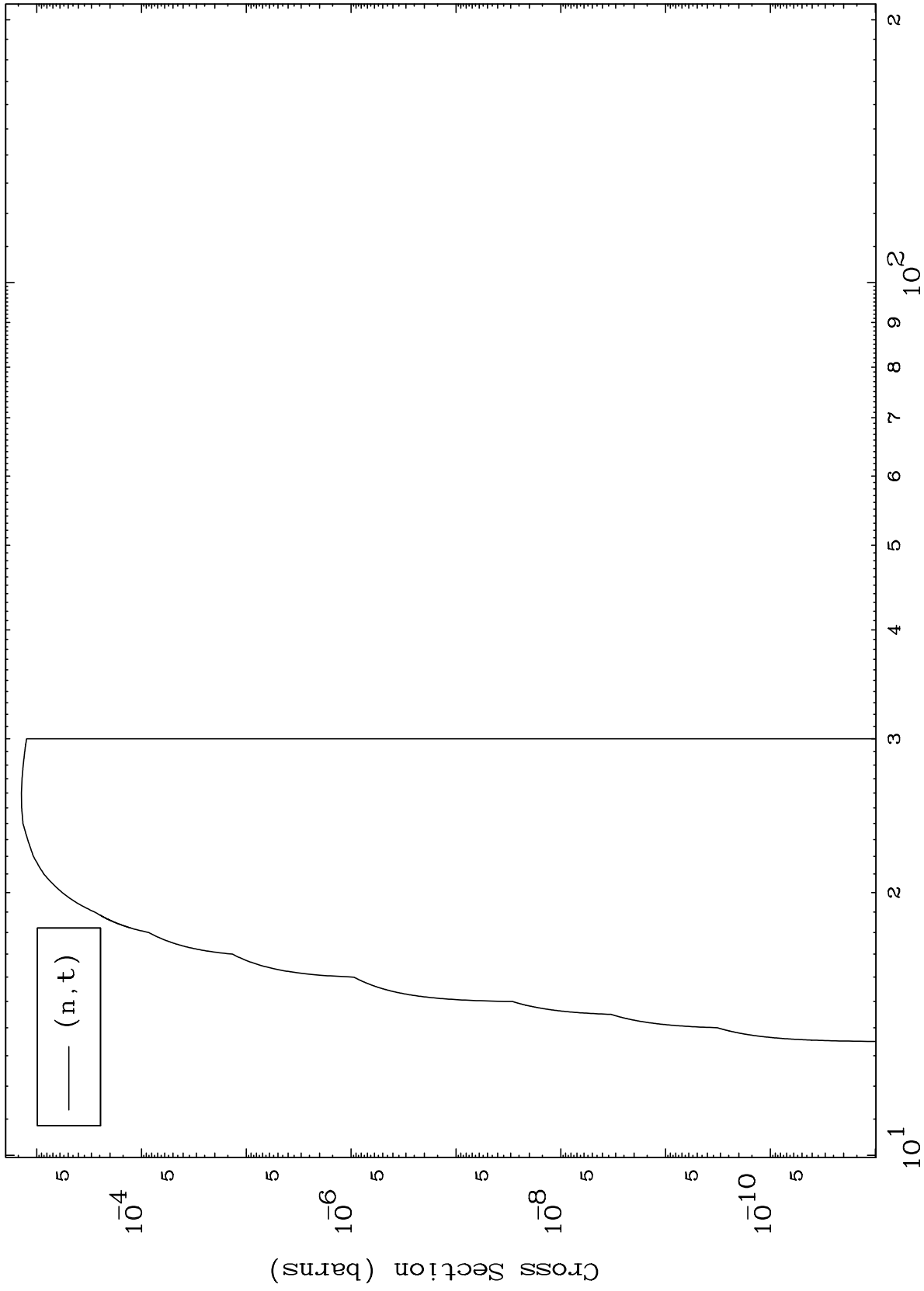
Incident Energy (MeV)

50-Sn-100

MAT 4989

(n,t) Levels
293 Kelvin Cross Sections

50-Sn-100



9

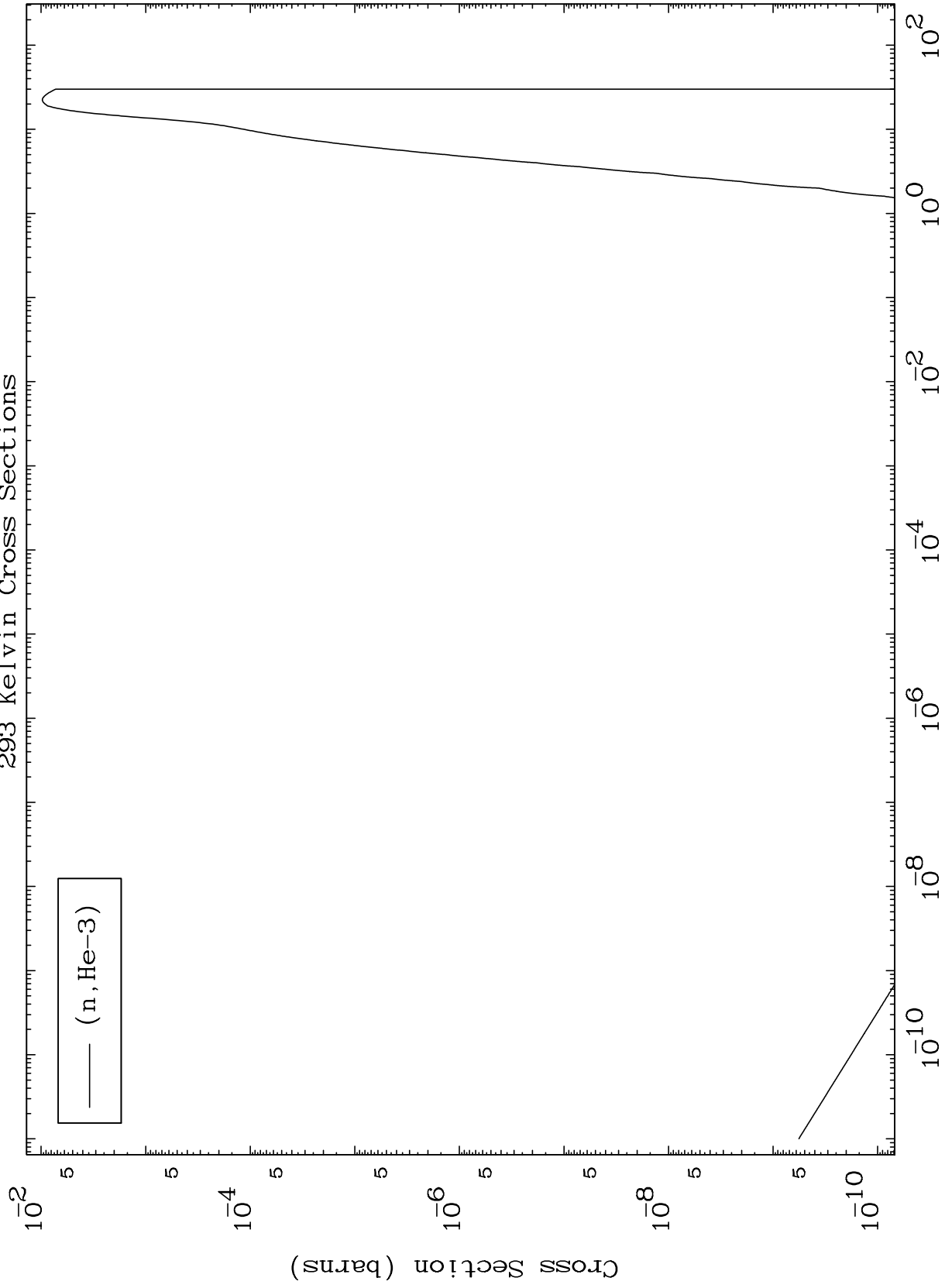
Incident Energy (MeV)

50-Sn-100

MAT 4989

(n,He3) Levels
293 Kelvin Cross Sections

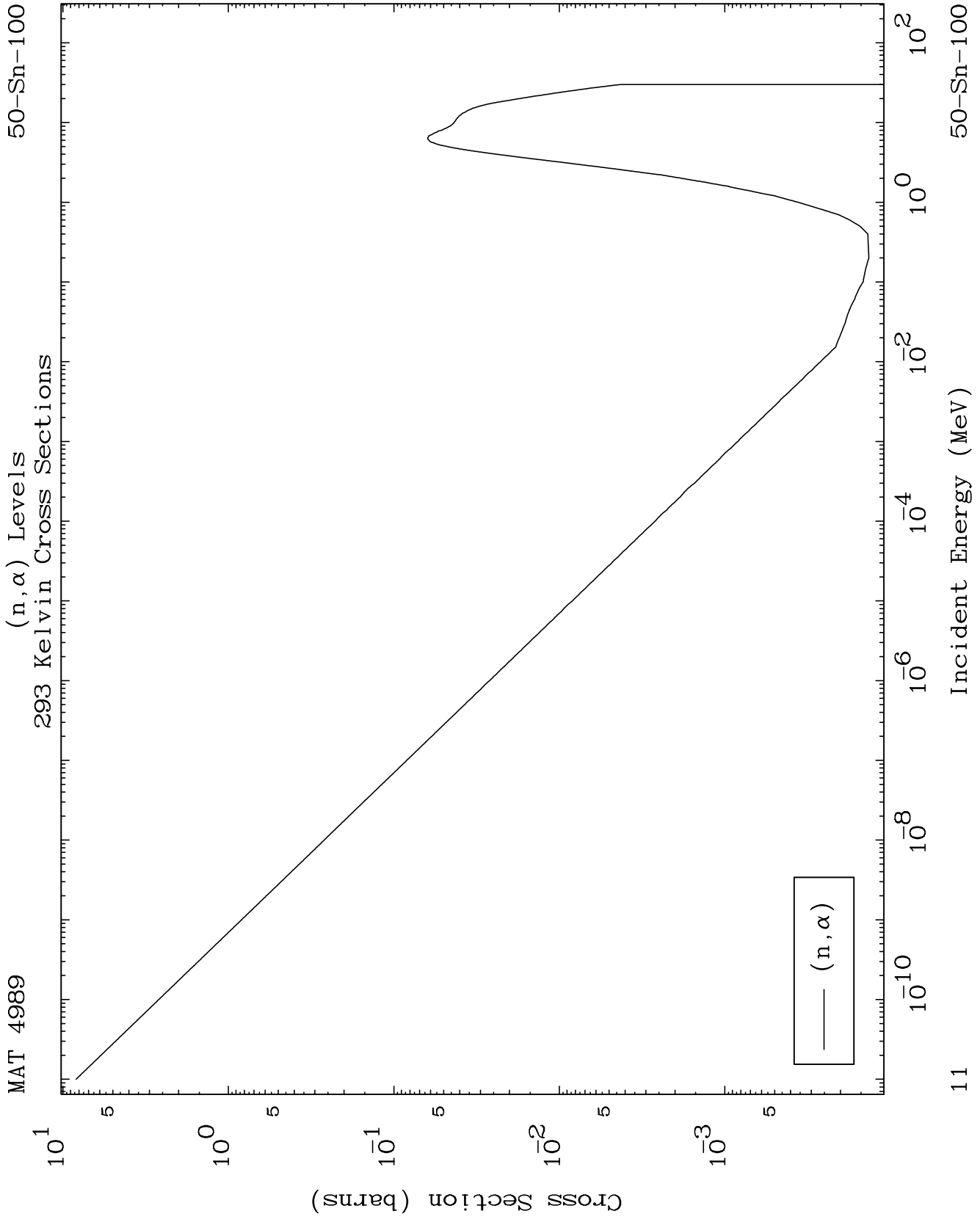
50-Sn-100



10

Incident Energy (MeV)

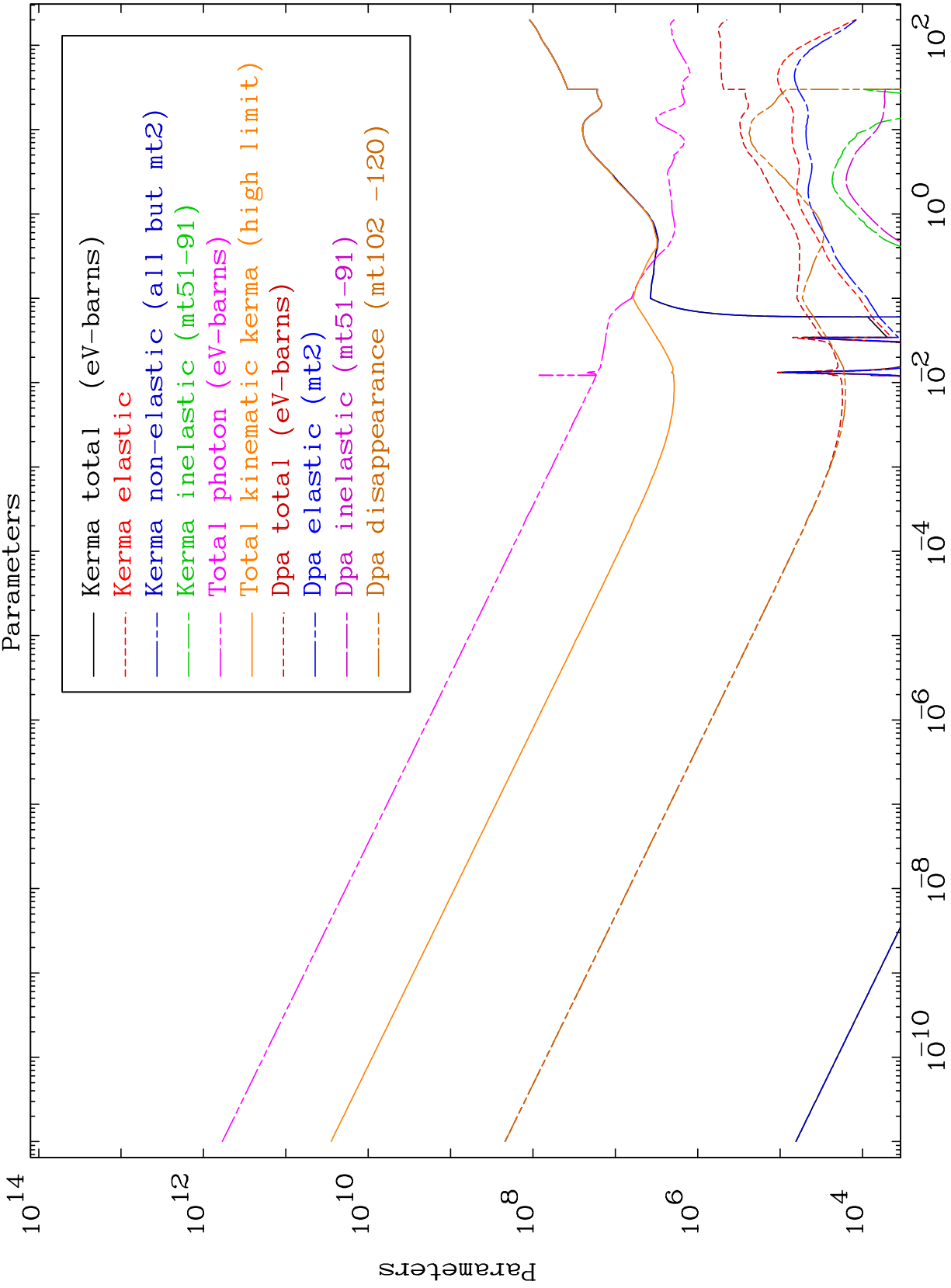
50-Sn-100



MAT 4989

Energy Release
Parameters

50-Sn-100



12

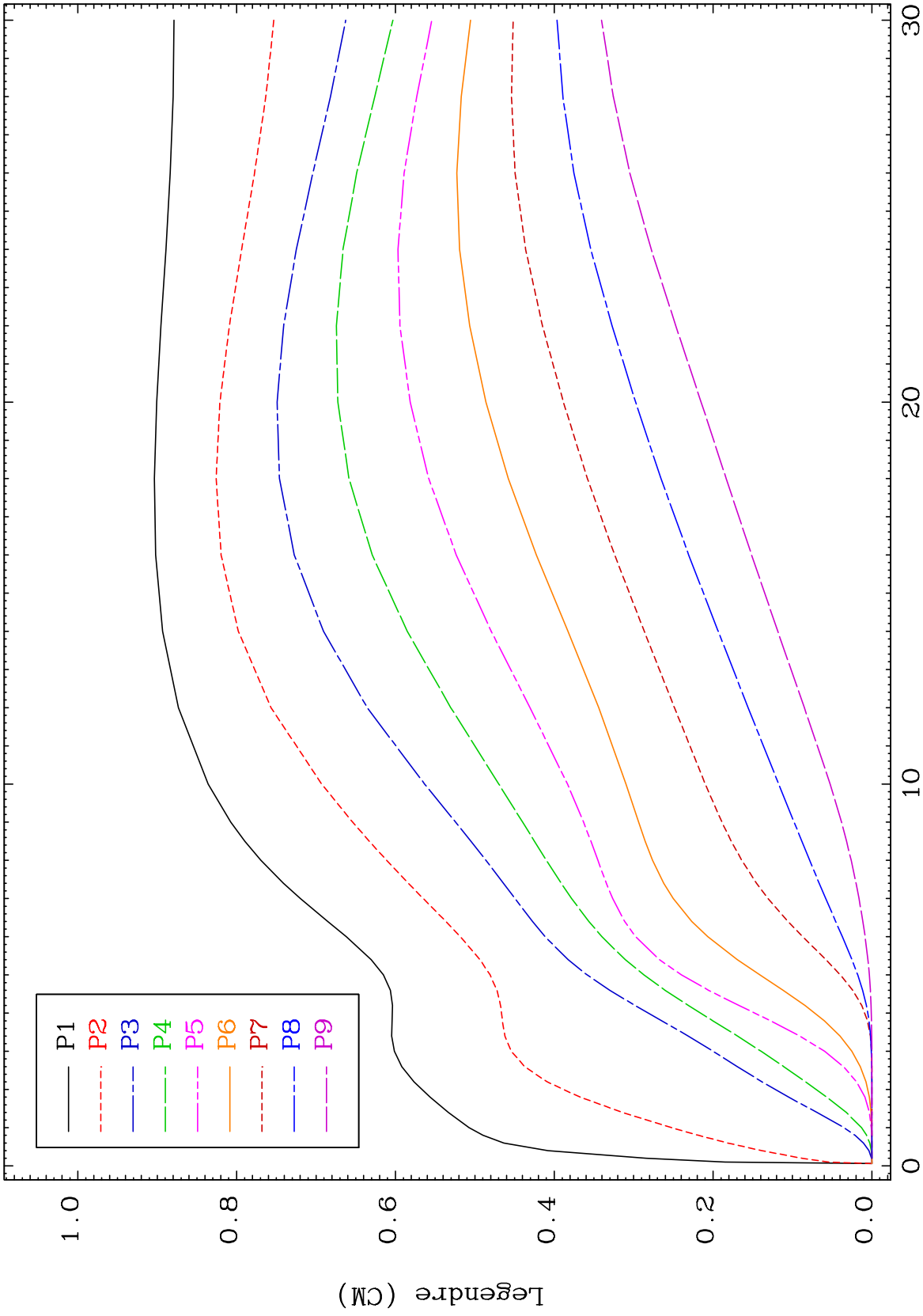
Incident Energy (MeV)

50-Sn-100

MAT 4989

Elastic Legendre Coefficients

50-Sn-100



13

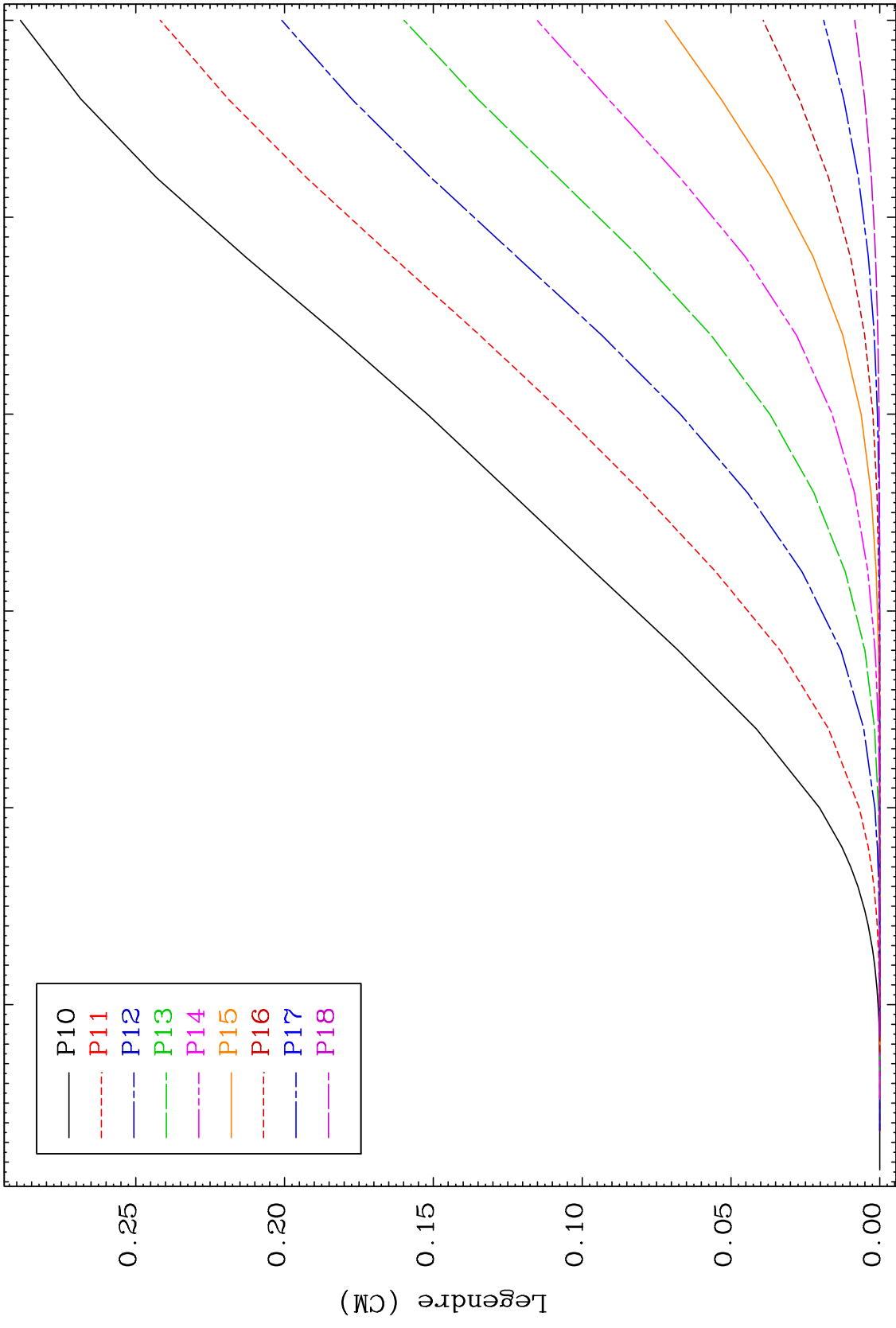
Incident Energy (MeV)

50-Sn-100

MAT 4989

Elastic Legendre Coefficients

50-Sn-100



14

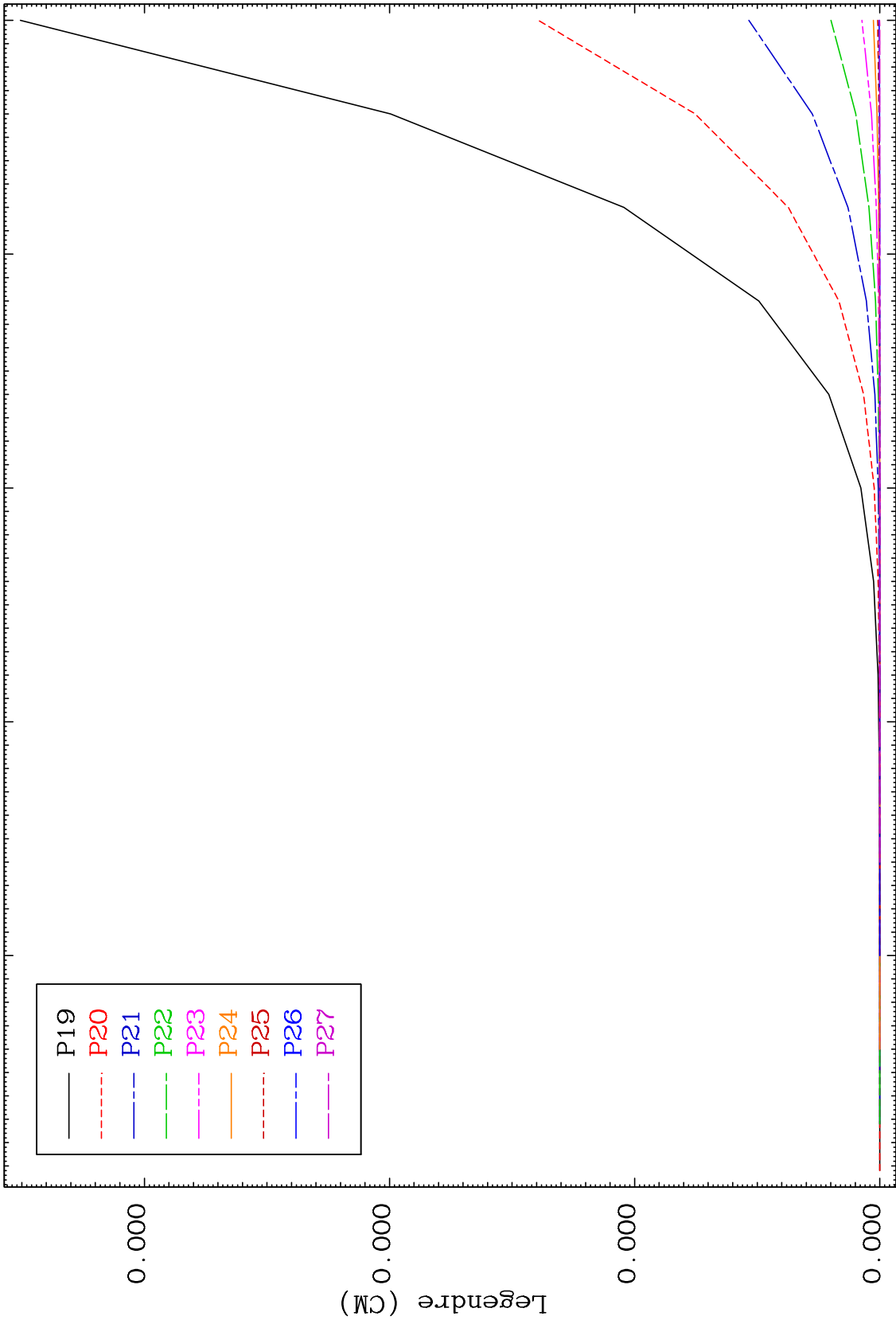
Incident Energy (MeV)

50-Sn-100

MAT 4989

Elastic
Legendre Coefficients

50-Sn-100



15

Incident Energy (MeV)

50-Sn-100

MAT 4989

Elastic Legendre Coefficients

50-Sn-100

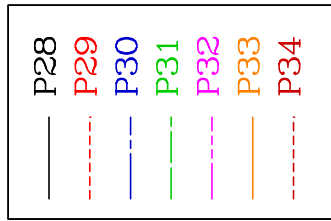
$\times 10^{-7}$
0.5

Legendre (CM)

0.0

-0.5

-1.0



15

20

25

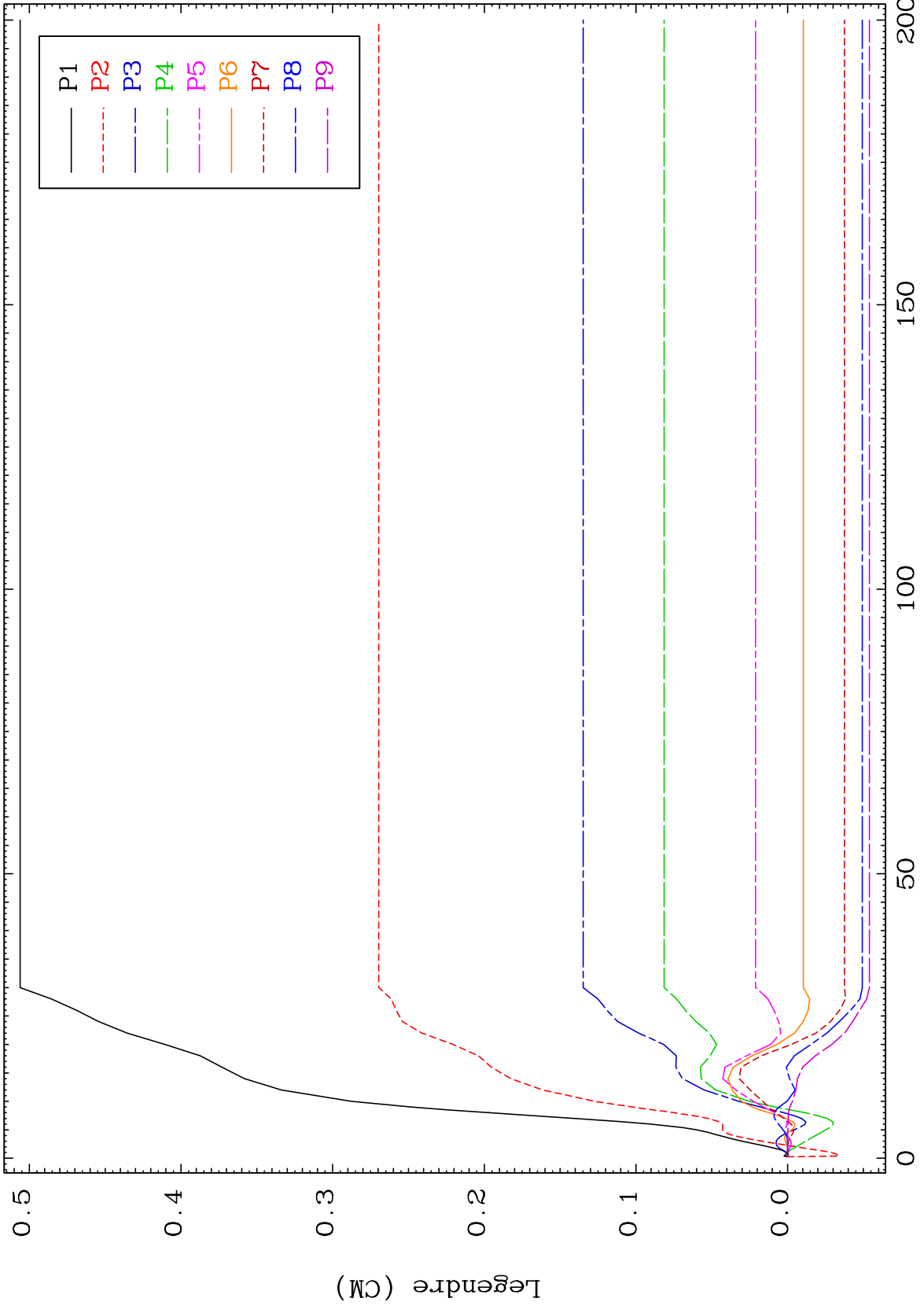
30

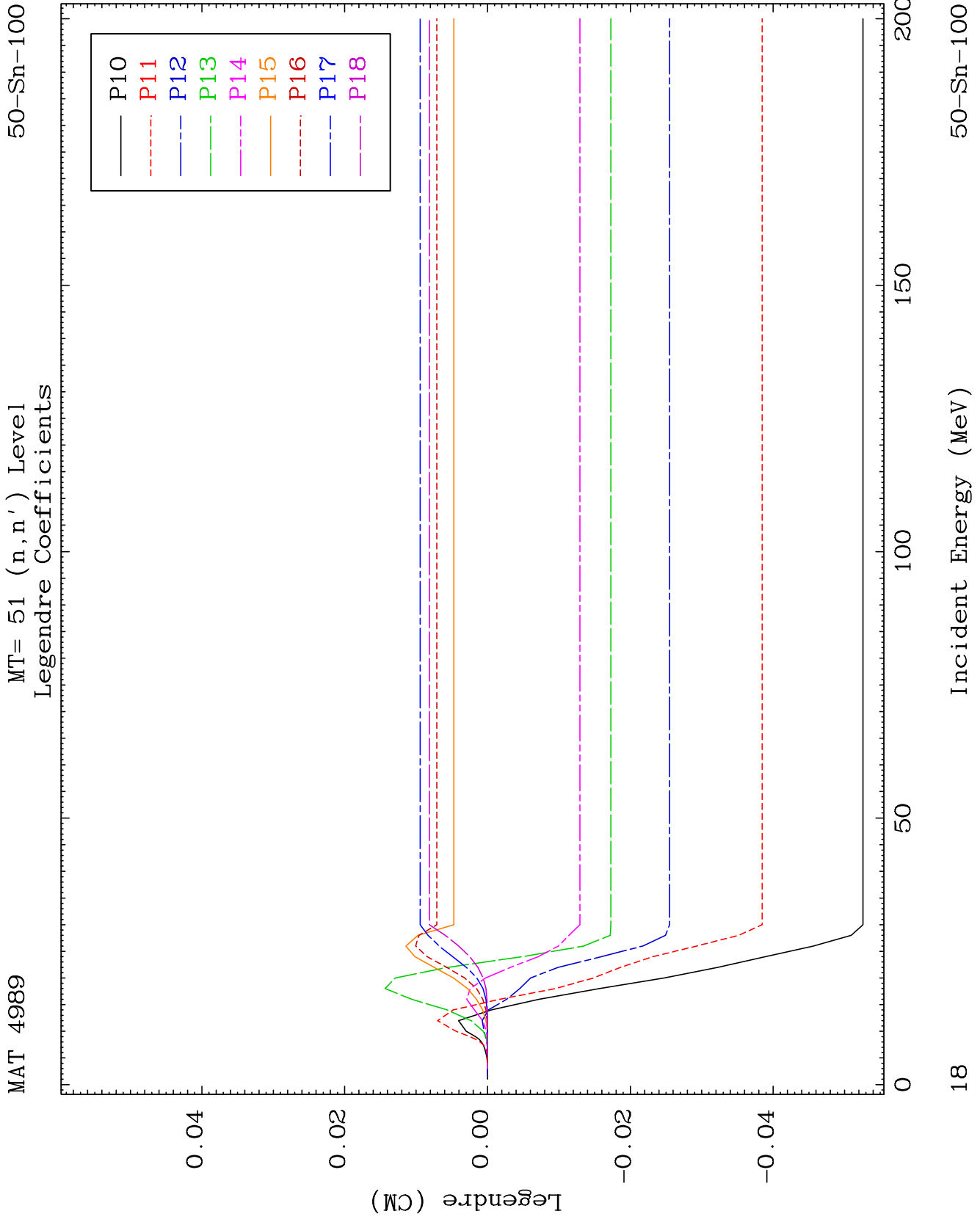
16

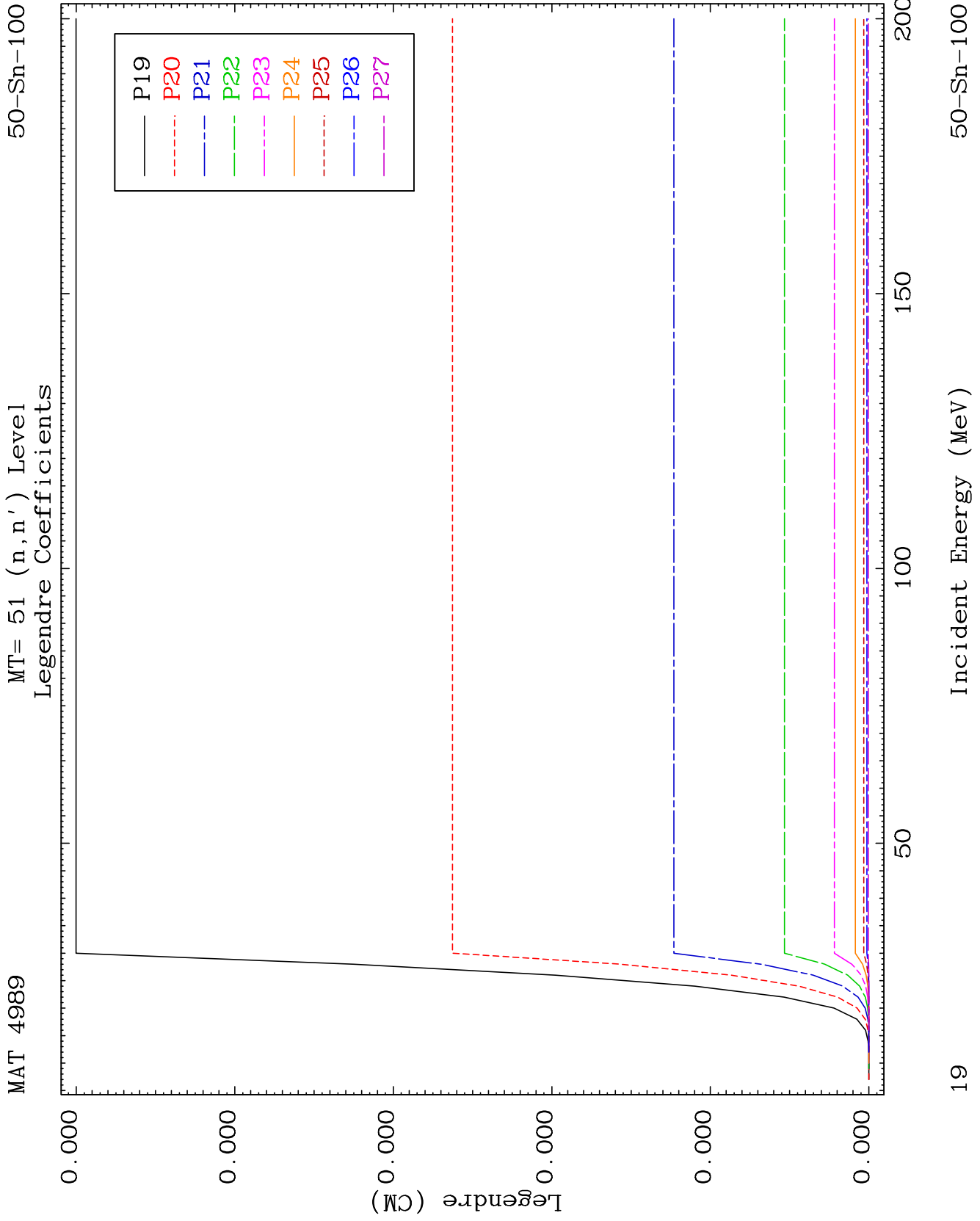
Incident Energy (MeV)

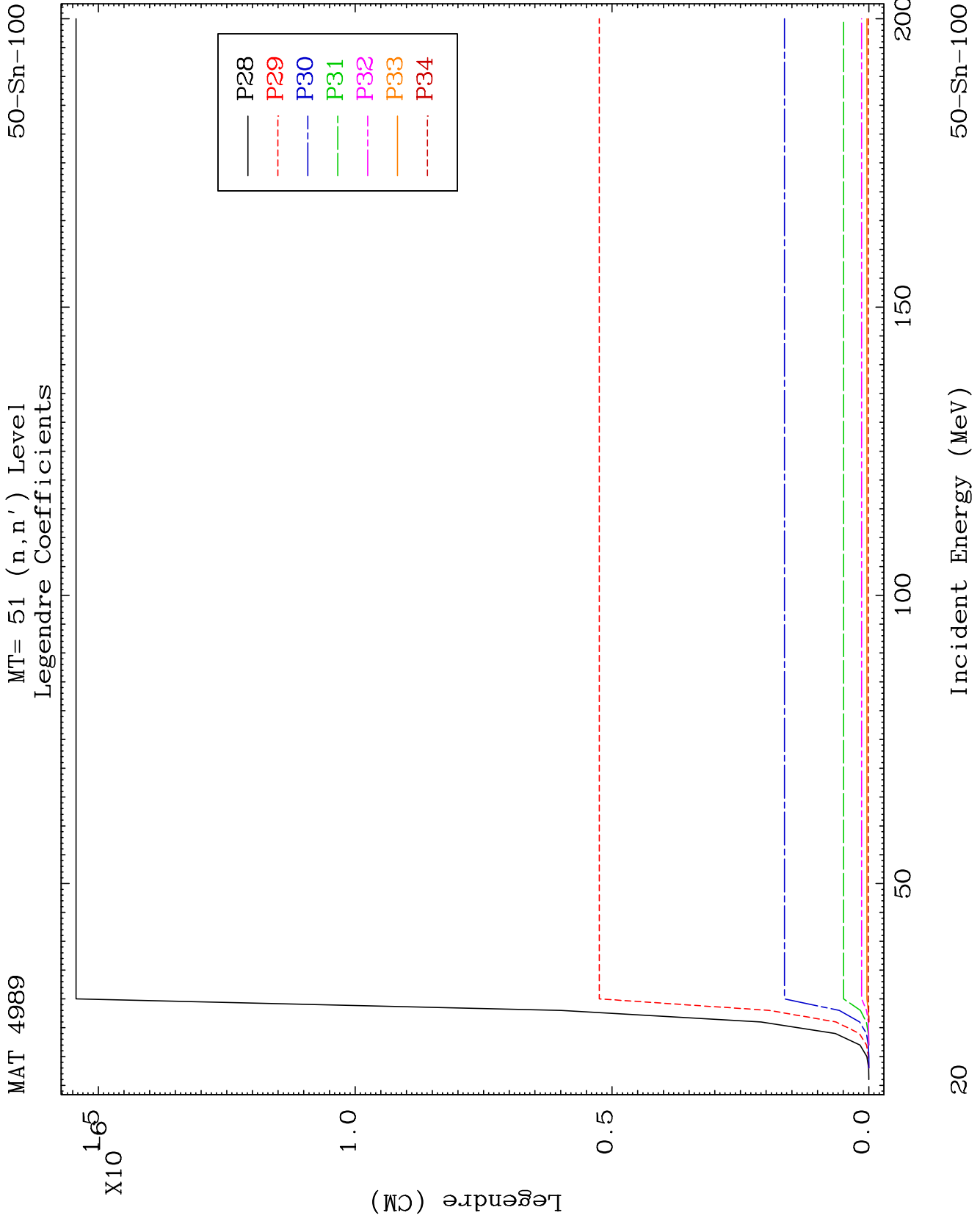
50-Sn-100

MAT 4989 MT= 51 (n,n') Level Legendre Coefficients 50-Sn-100







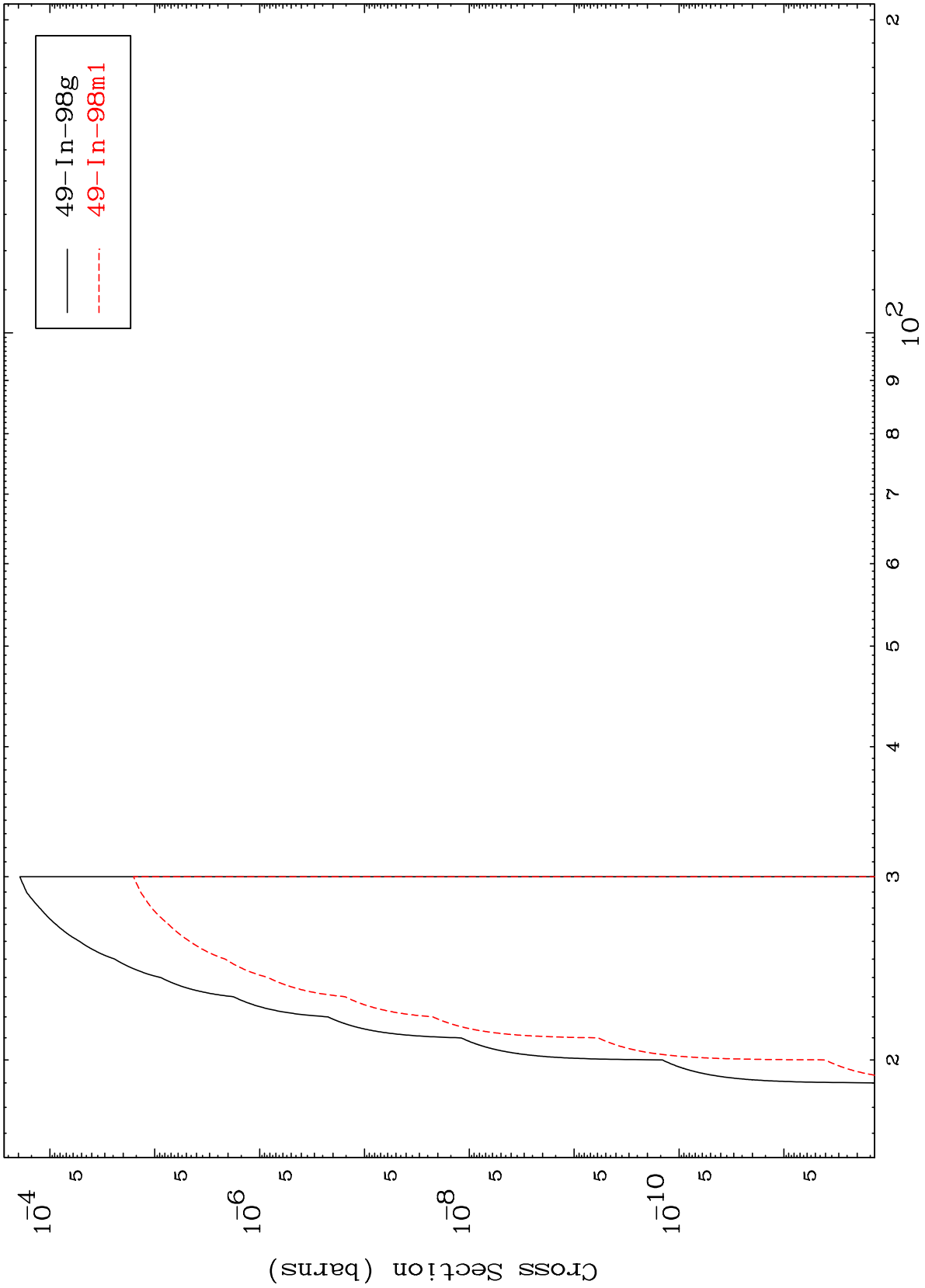


MAT 4989

(n,n') d

50-Sn-100

Radionuclide Production Cross Section



21

Incident Energy (MeV)

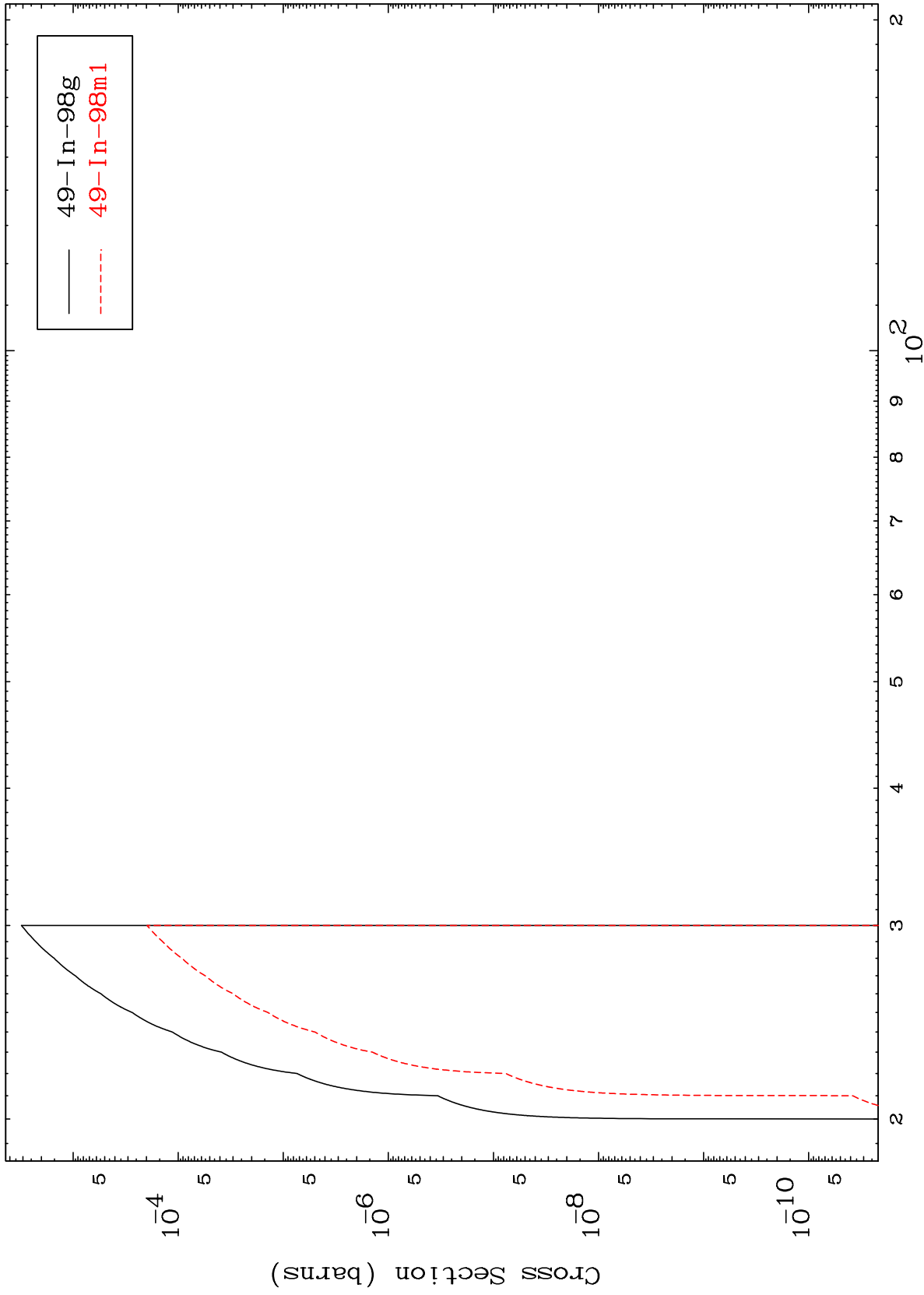
50-Sn-100

MAT 4989

(n,2n) p

50-Sn-100

Radionuclide Production Cross Section



22

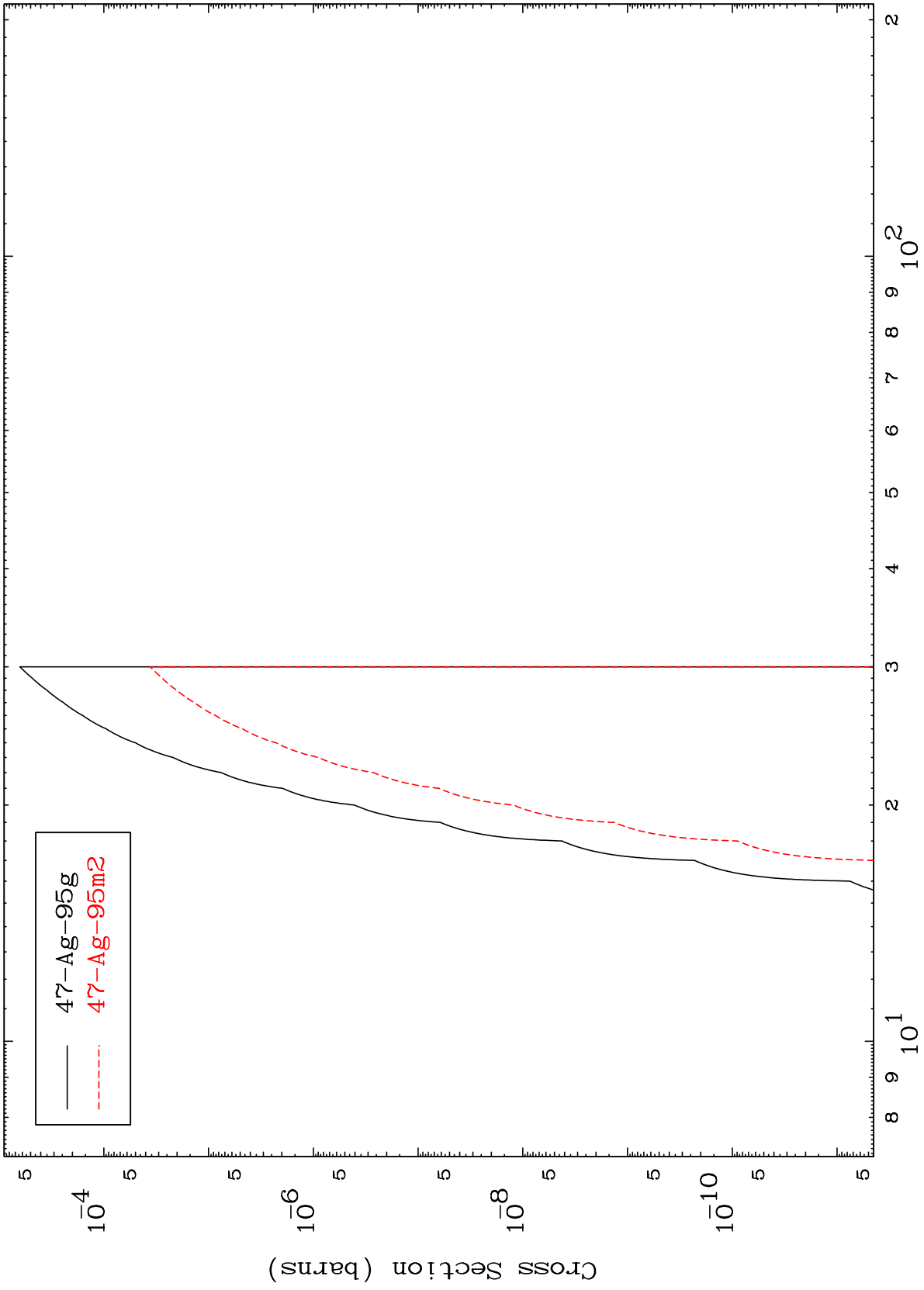
Incident Energy (MeV)

50-Sn-100

MAT 4989

50-Sn-100

(n,n') p α
Radionuclide Production Cross Section



23

50-Sn-100

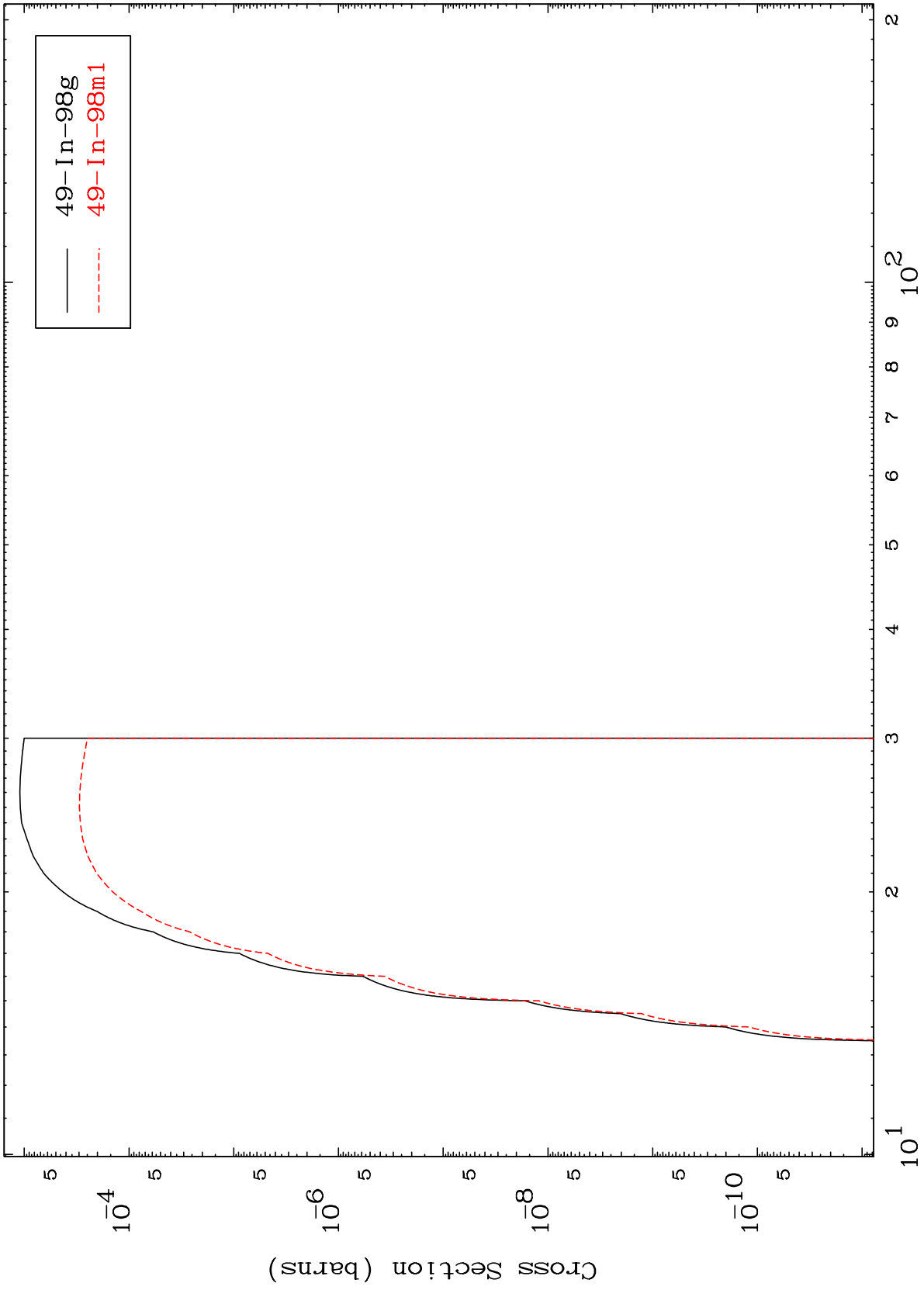
Incident Energy (MeV)

MAT 4989

(n, t)

50-Sn-100

Radionuclide Production Cross Section



24

Incident Energy (MeV)

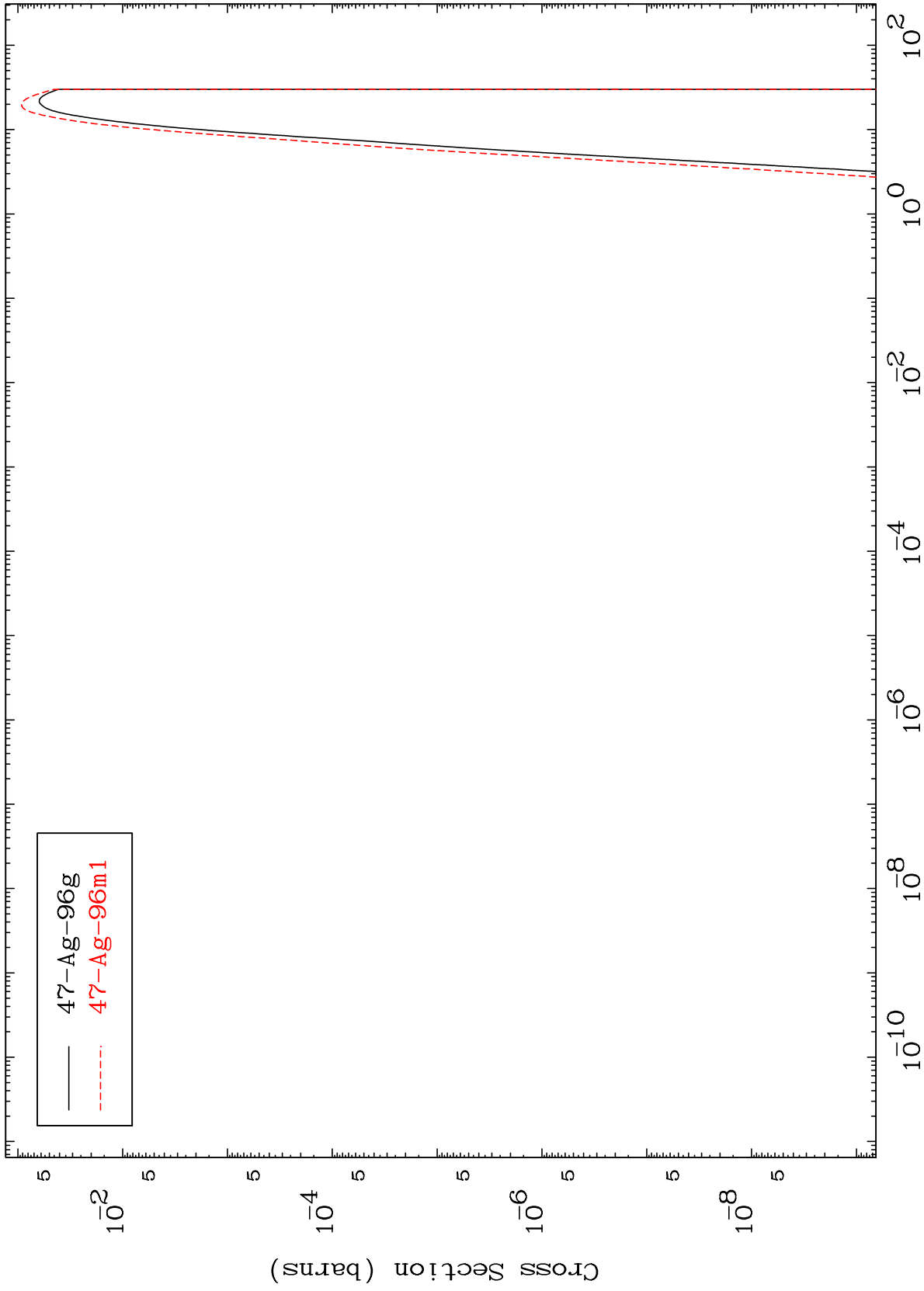
50-Sn-100

MAT 4989

(n,p) α

50-Sn-100

Radionuclide Production Cross Section



25

Incident Energy (MeV)

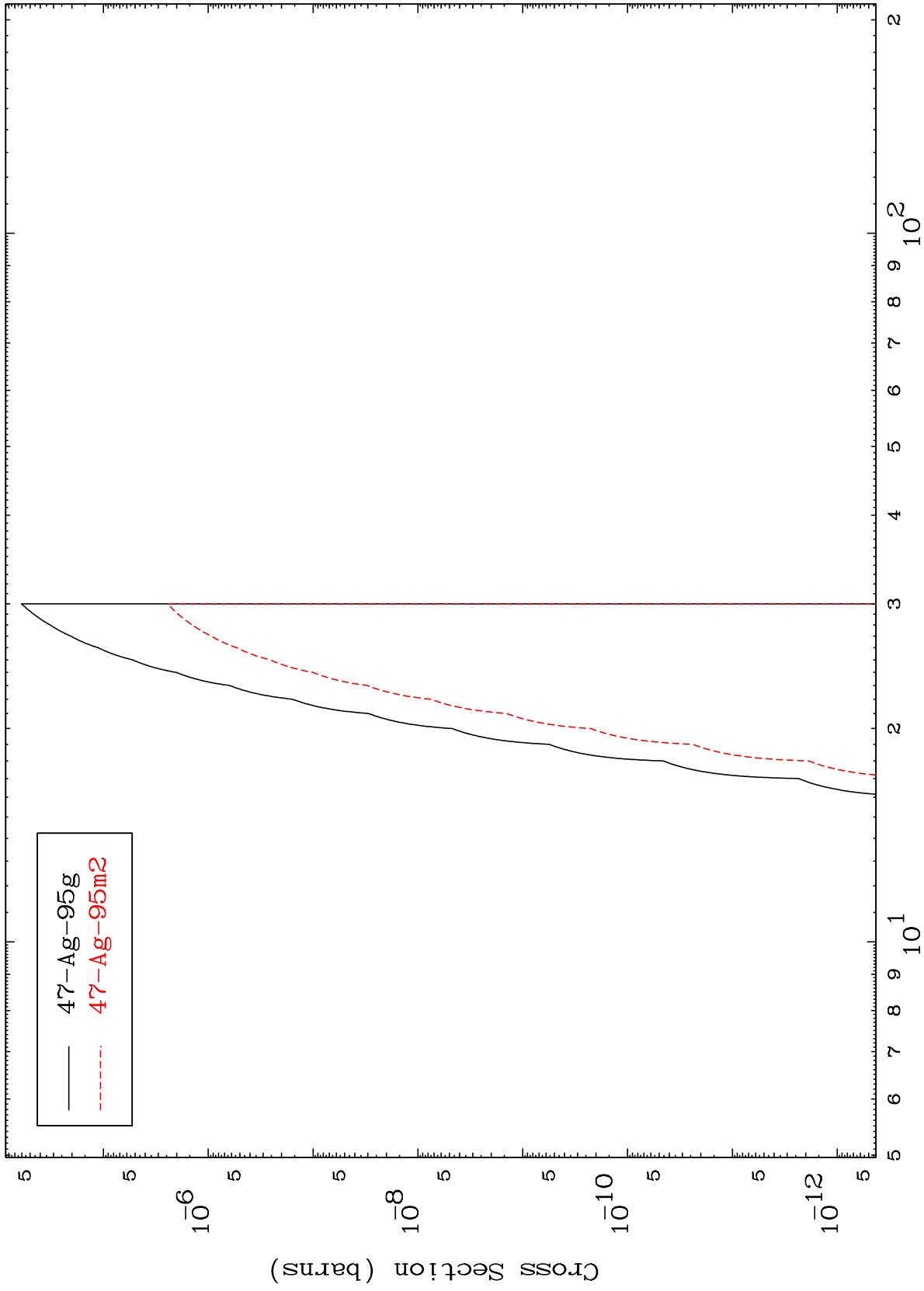
50-Sn-100

MAT 4989

(n,d) α

50-Sn-100

Radionuclide Production Cross Section



26

Incident Energy (MeV)

50-Sn-100