

Program EVALPLOT
(Version 2021-1)

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

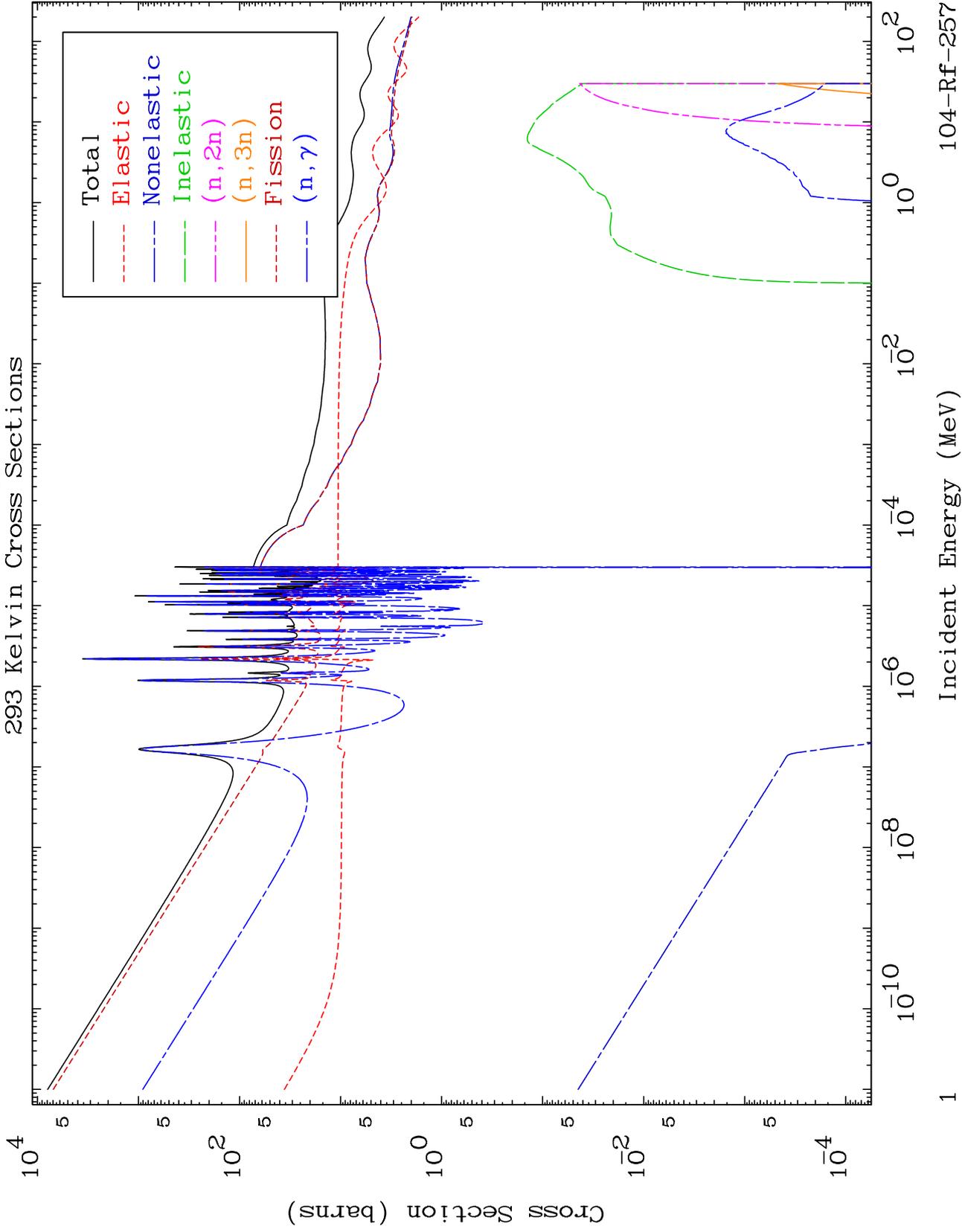
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 457

Neutron Major
293 Kelvin Cross Sections

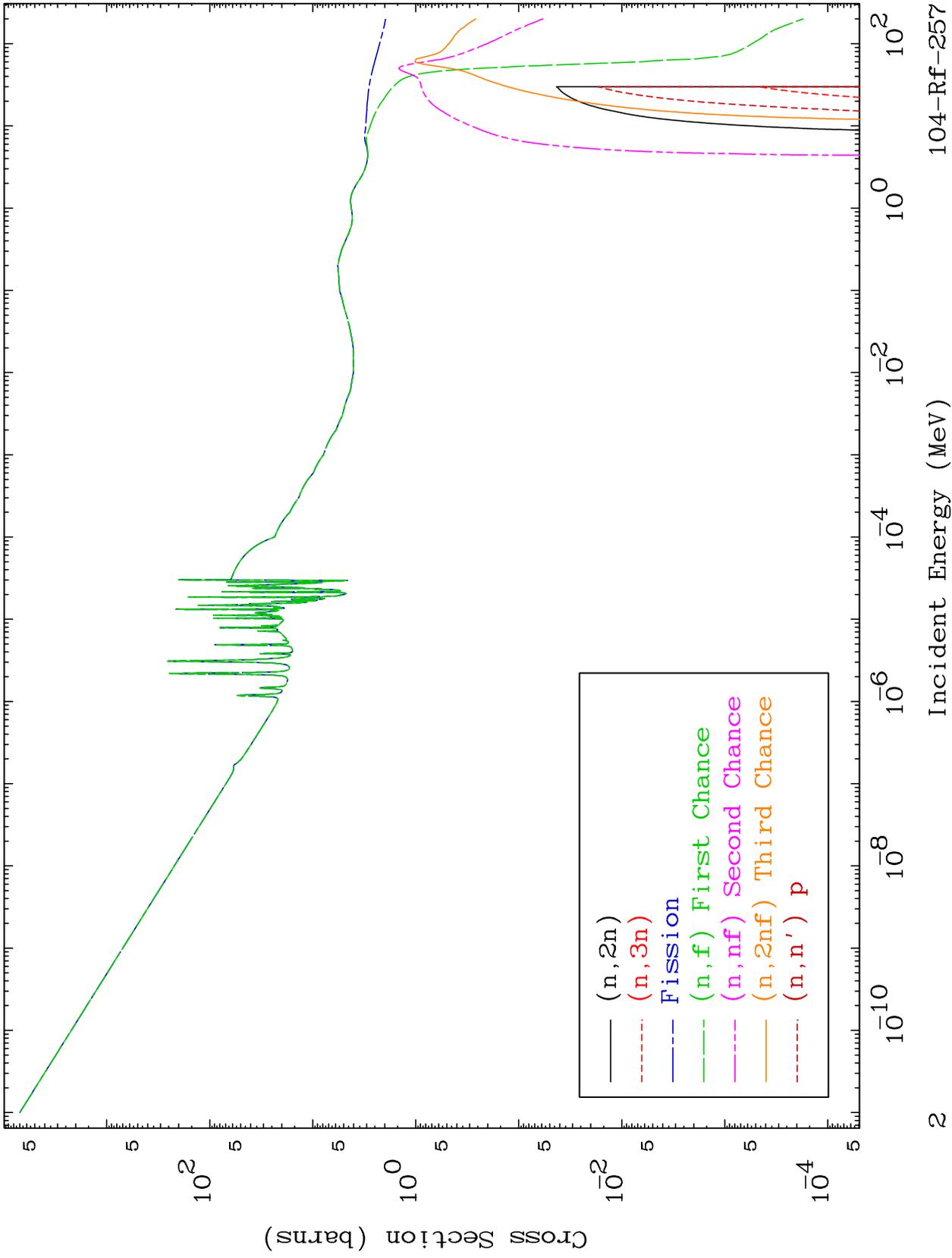
104-Rf-257

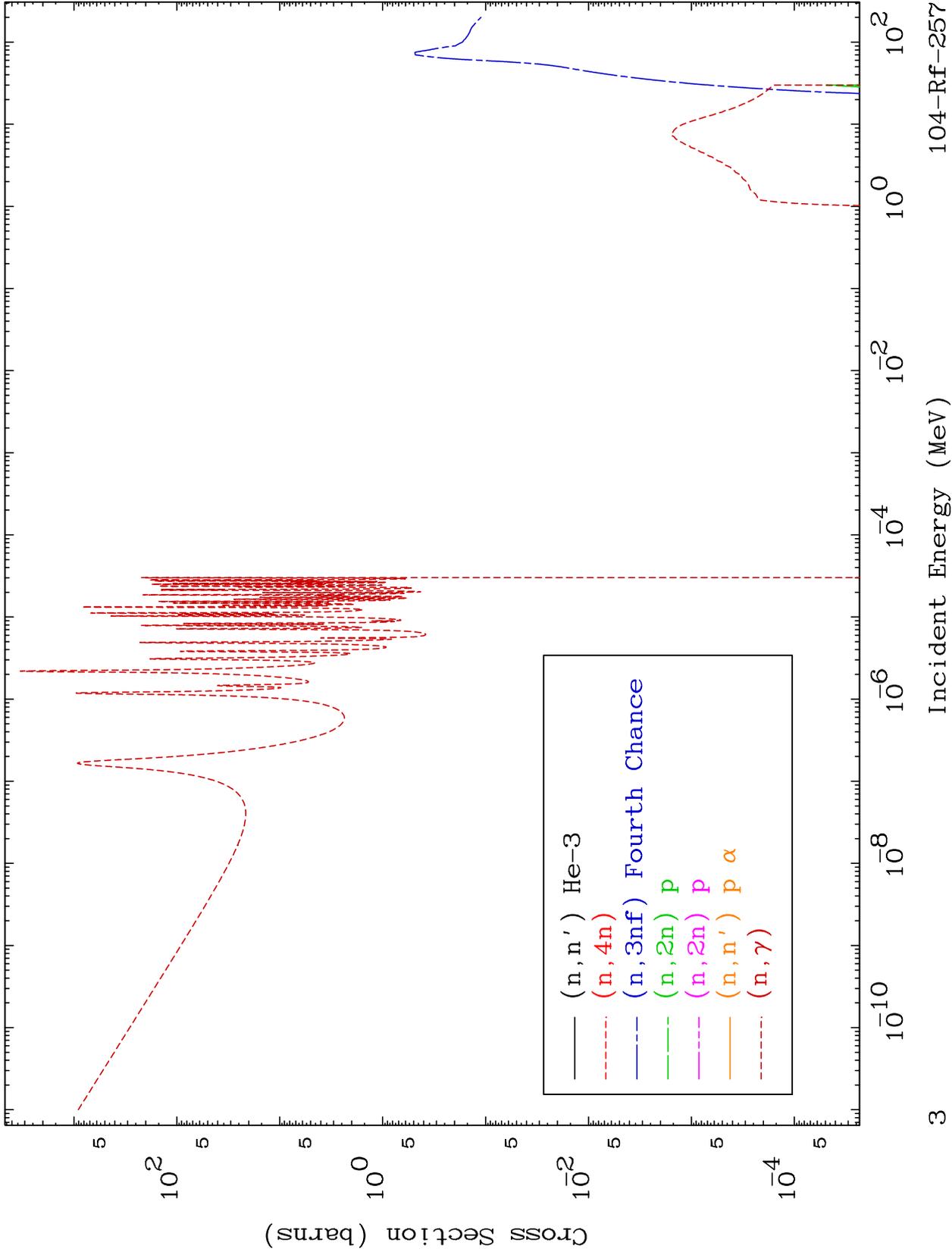


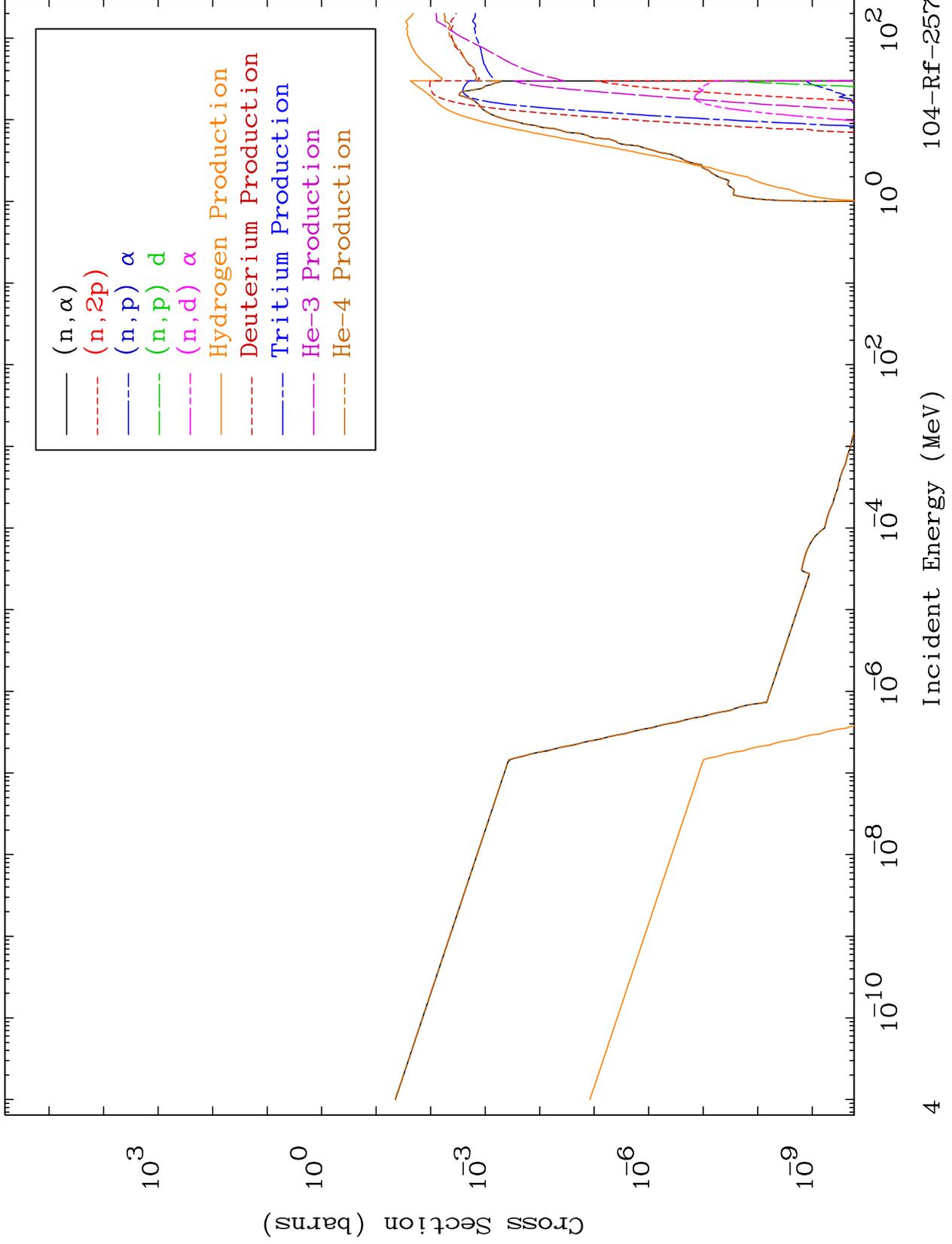
MAT 457

Neutron Absorption
293 Kelvin Cross Sections

104-Rf-257



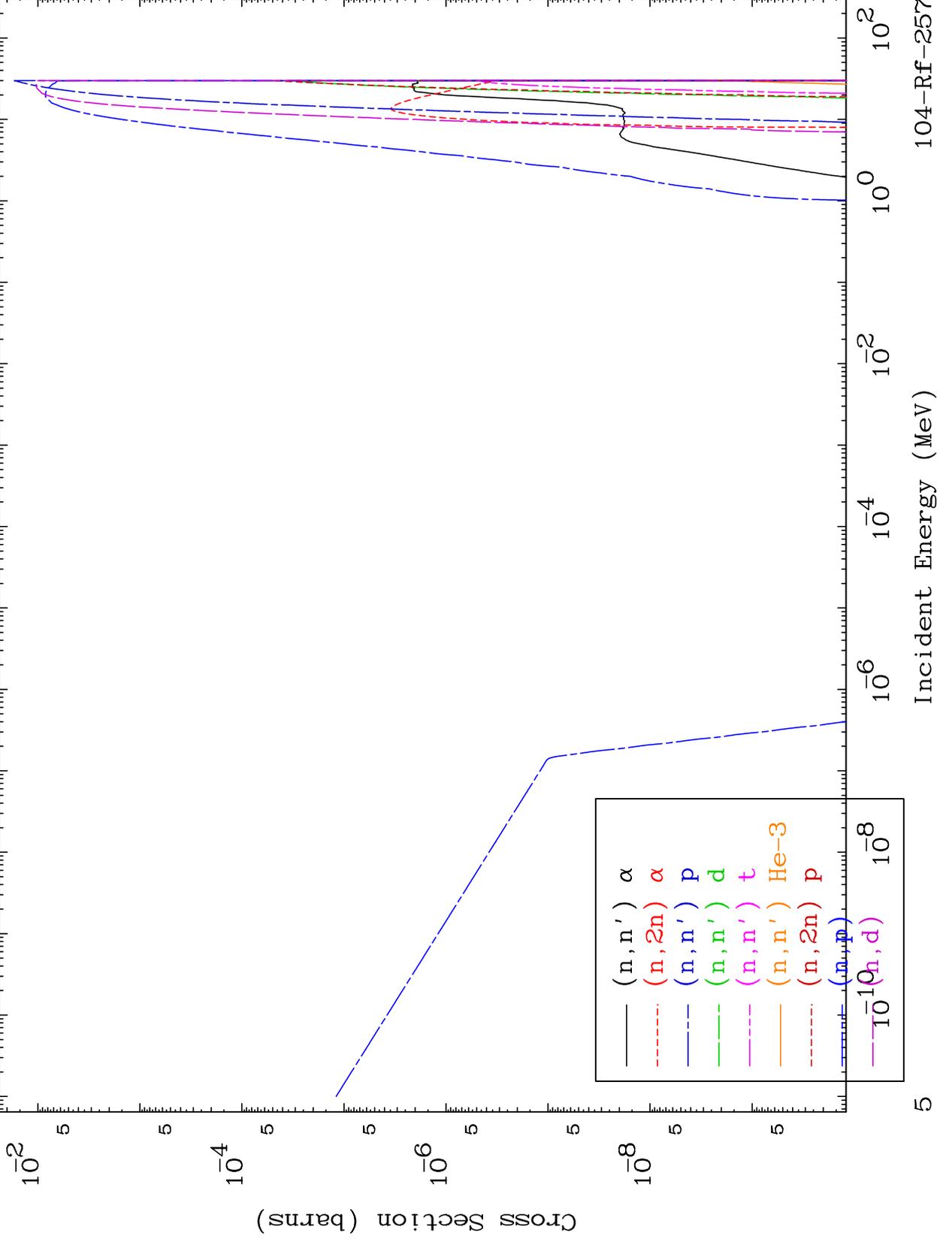




MAT 457

Charged Particle
293 Kelvin Cross Sections

104-Rf-257

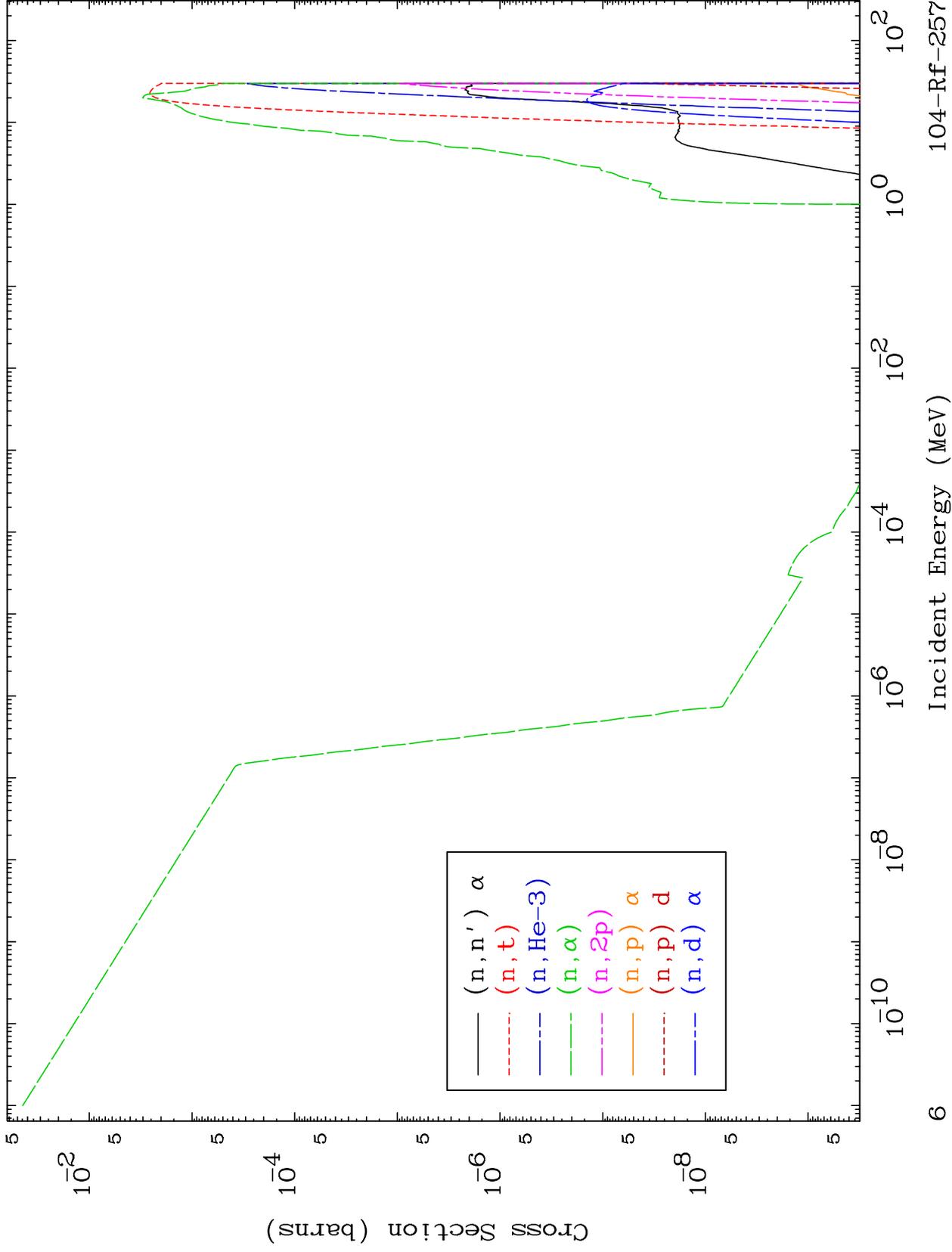


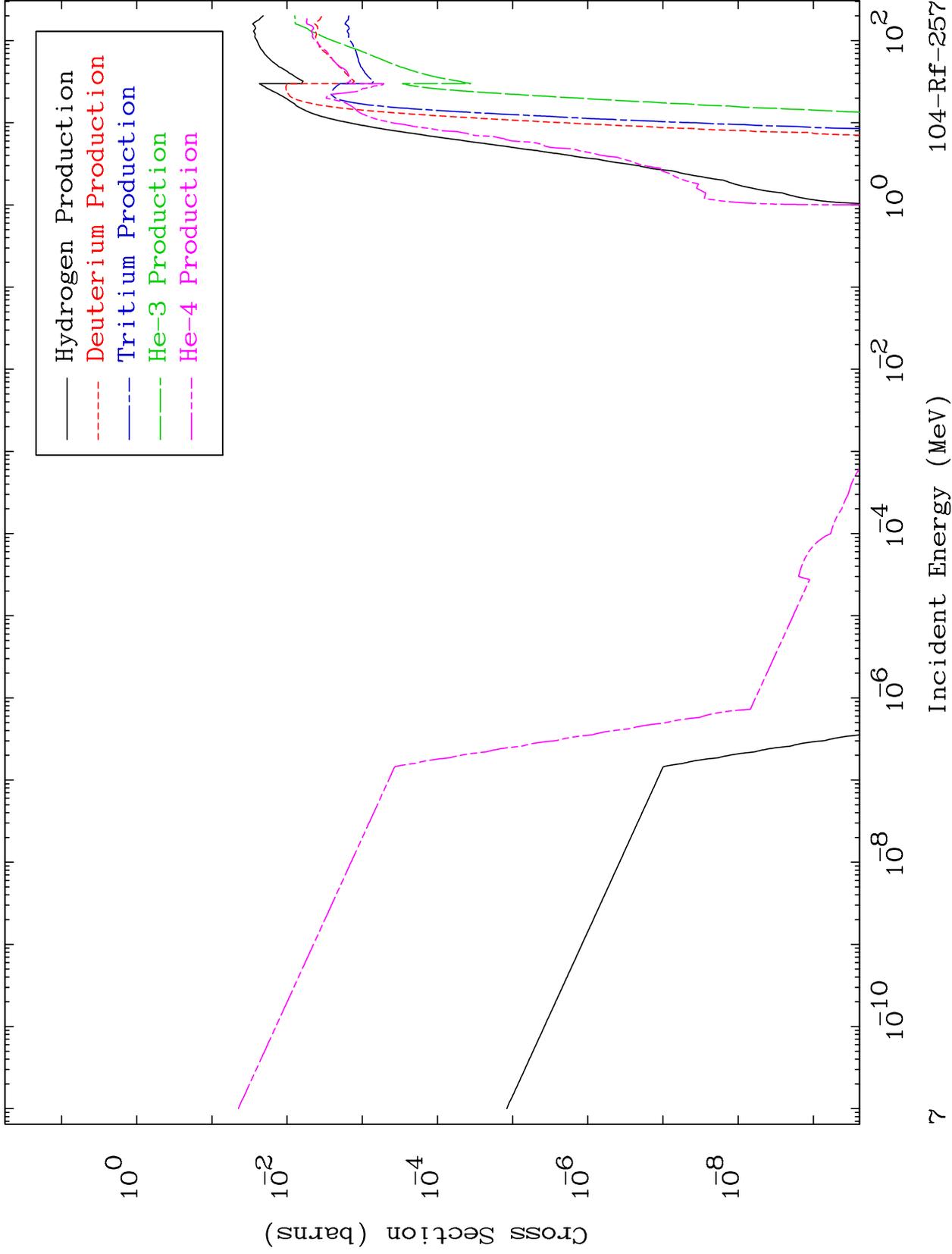
5

MAT 457

Charged Particle
293 Kelvin Cross Sections

104-Rf-257

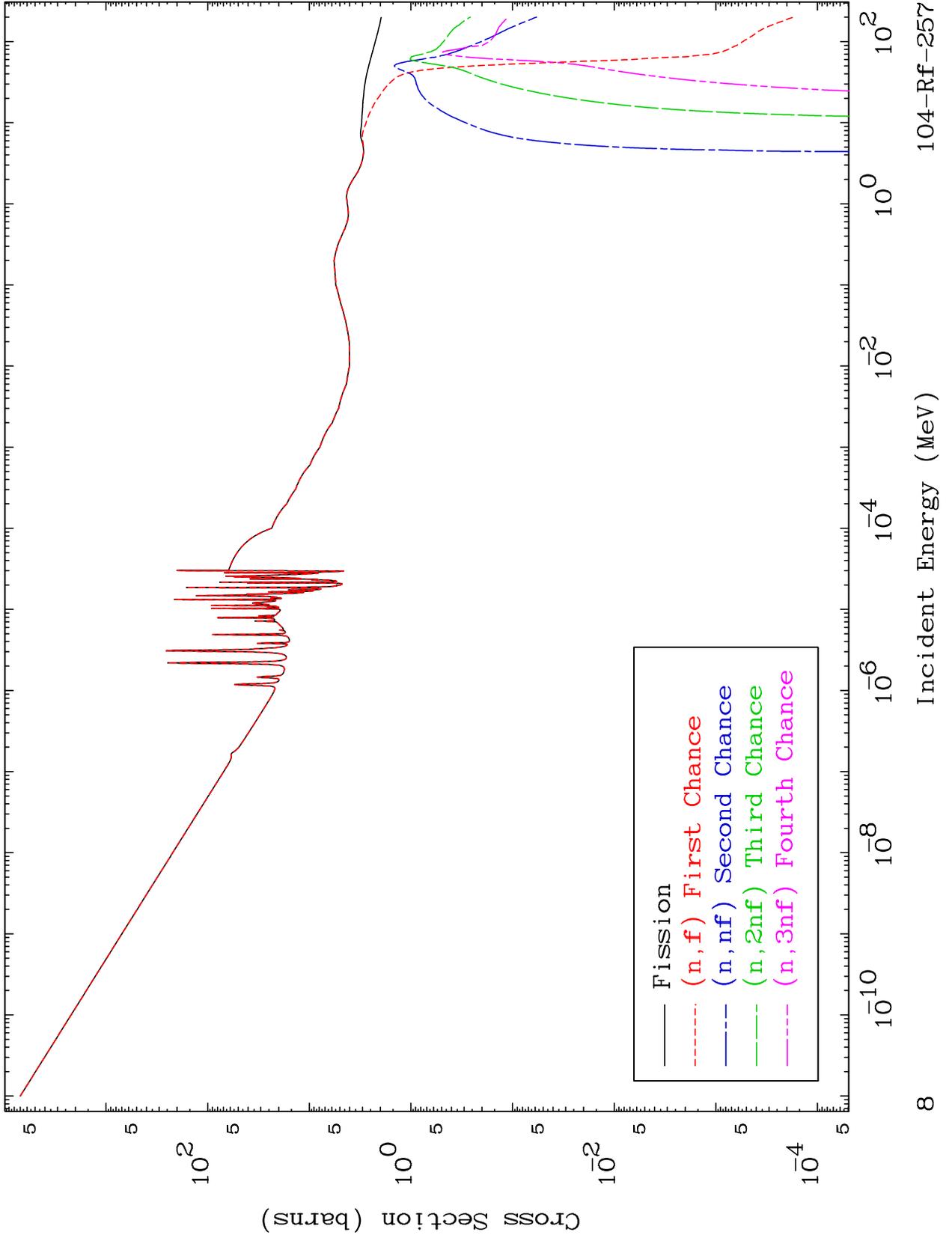




MAT 457

Fission
293 Kelvin Cross Sections

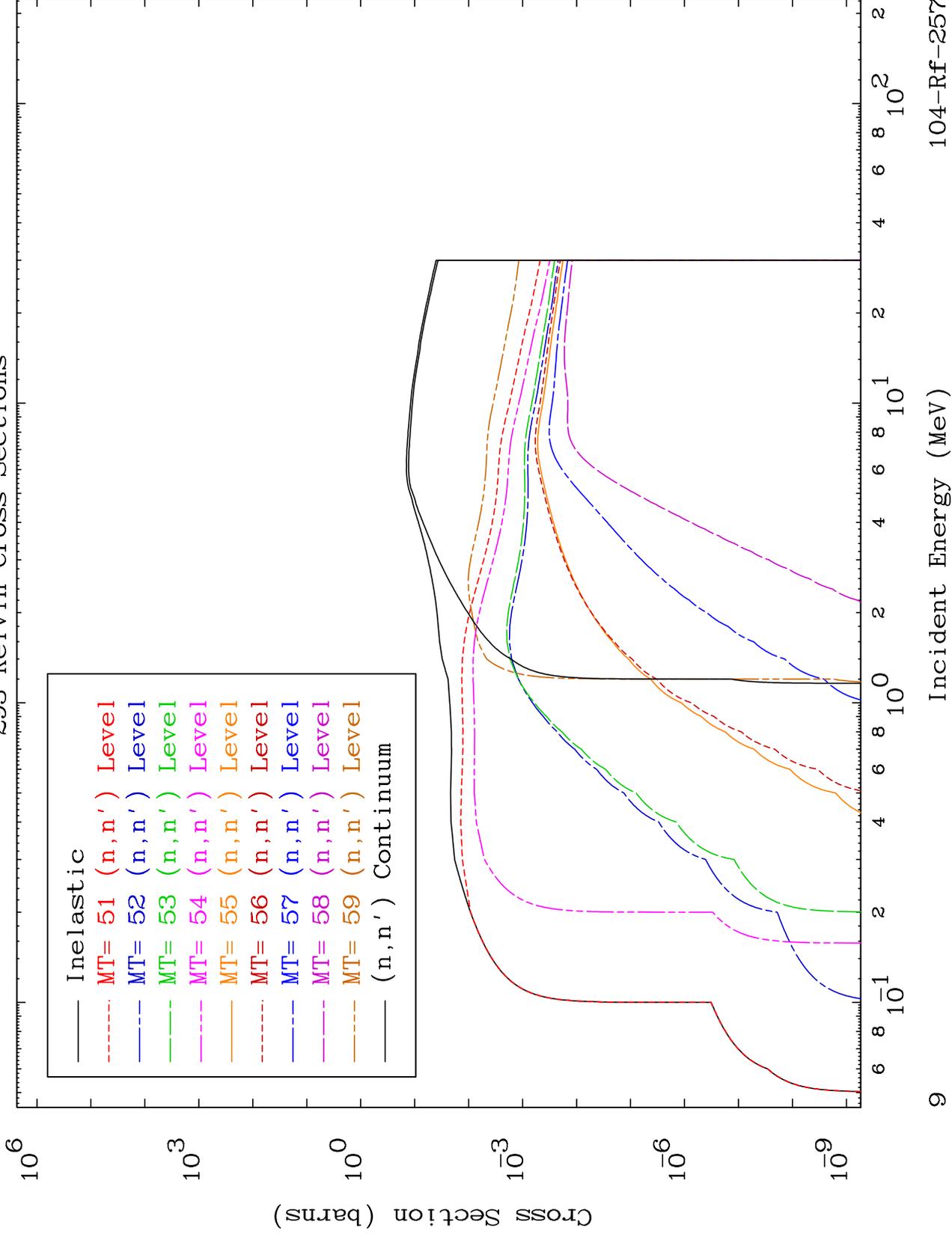
104-Rf-257

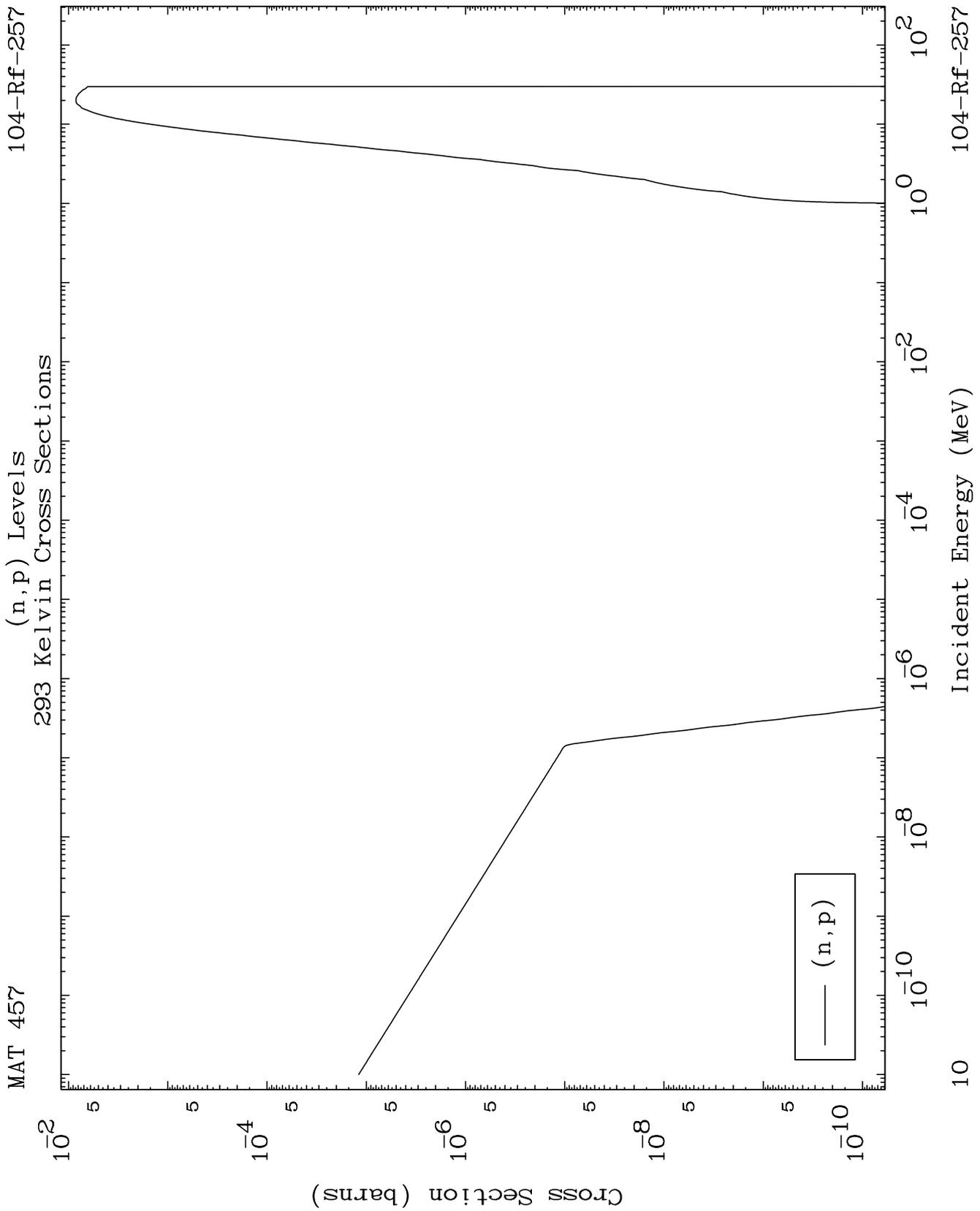


MAT 457

(n,n') Levels
293 Kelvin Cross Sections

104-Rf-257

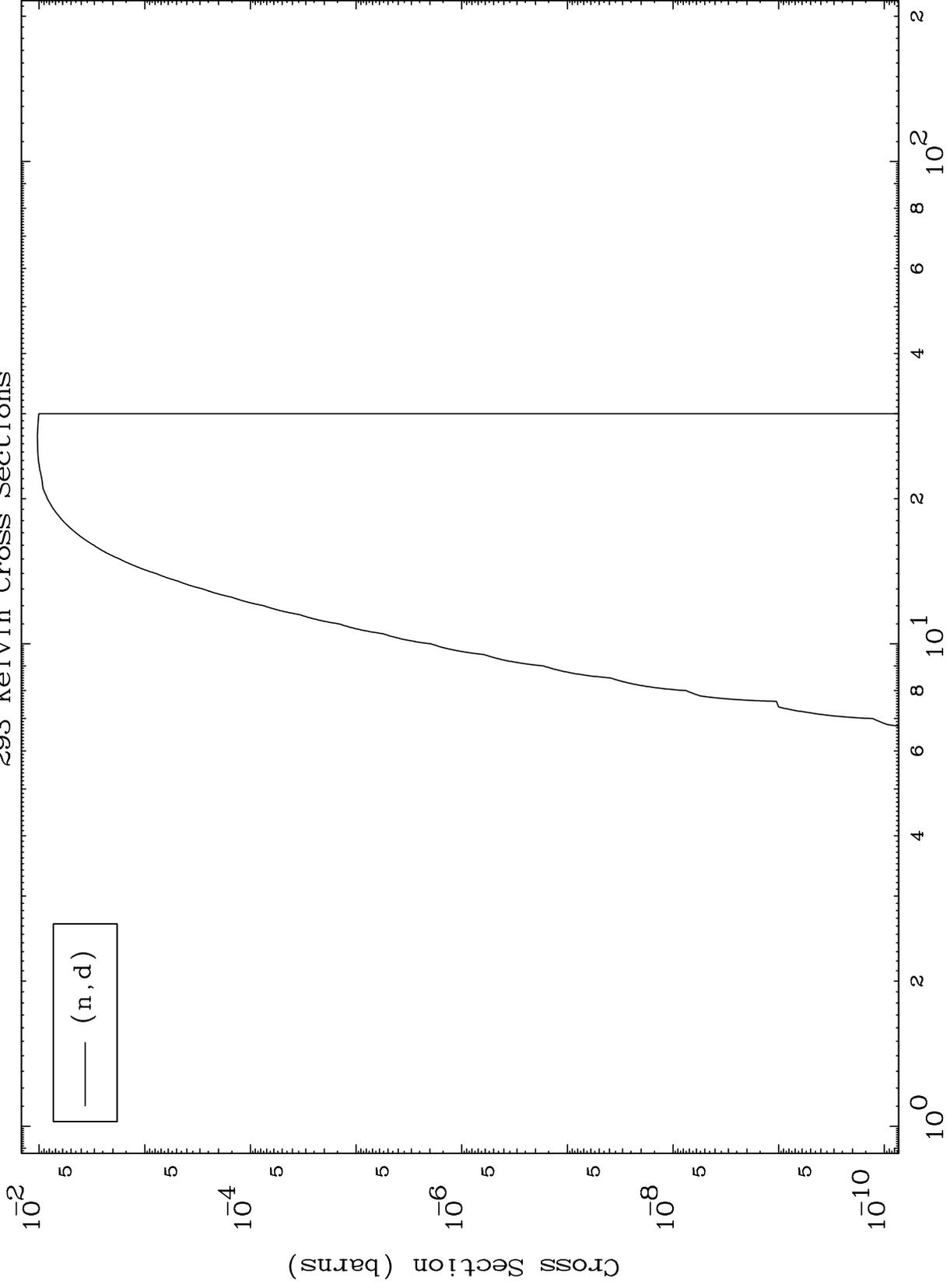




MAT 457

(n,d) Levels
293 Kelvin Cross Sections

104-Rf-257



11

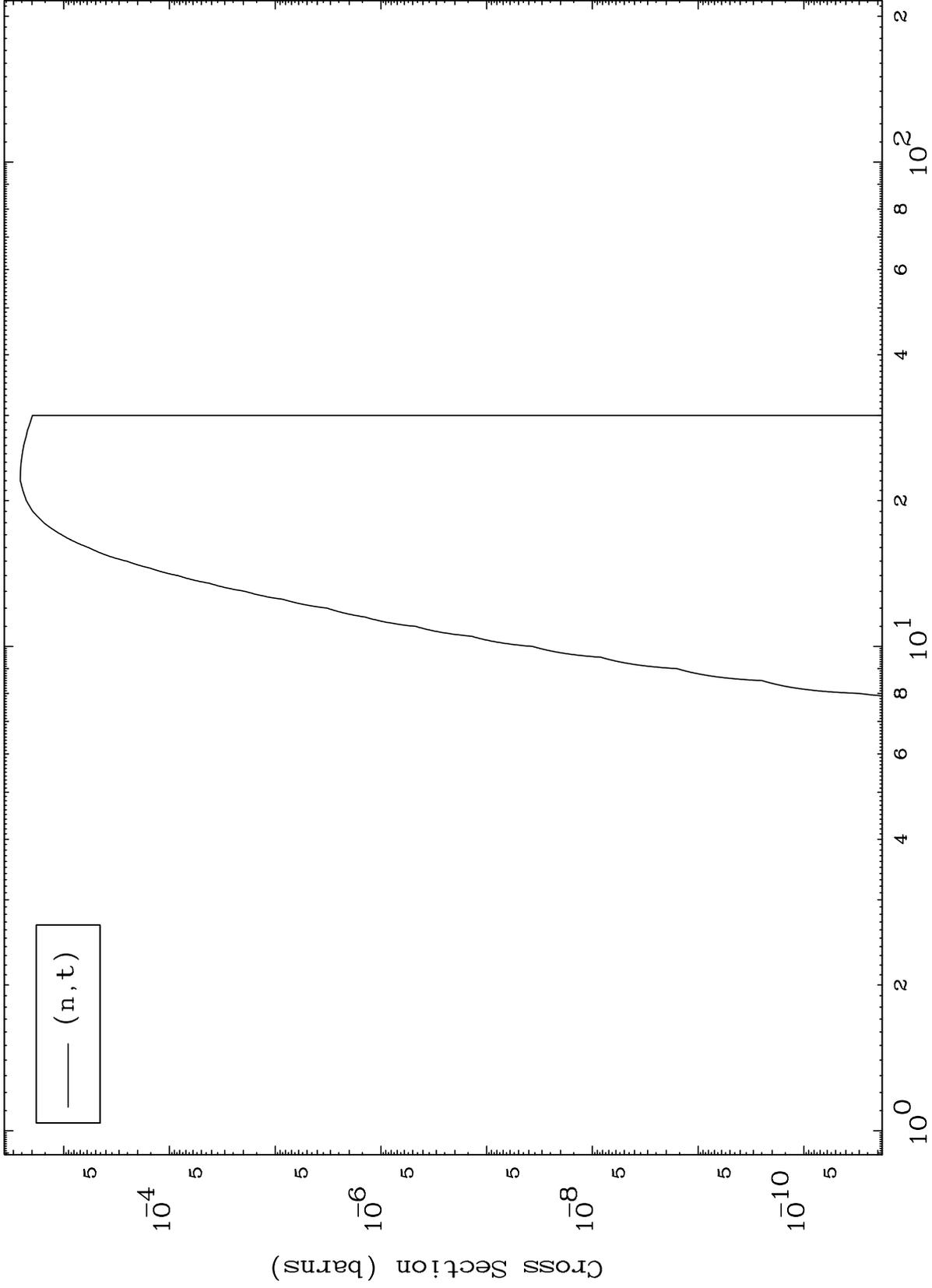
Incident Energy (MeV)

104-Rf-257

MAT 457

(n,t) Levels
293 Kelvin Cross Sections

104-Rf-257



(n,t)

Incident Energy (MeV)

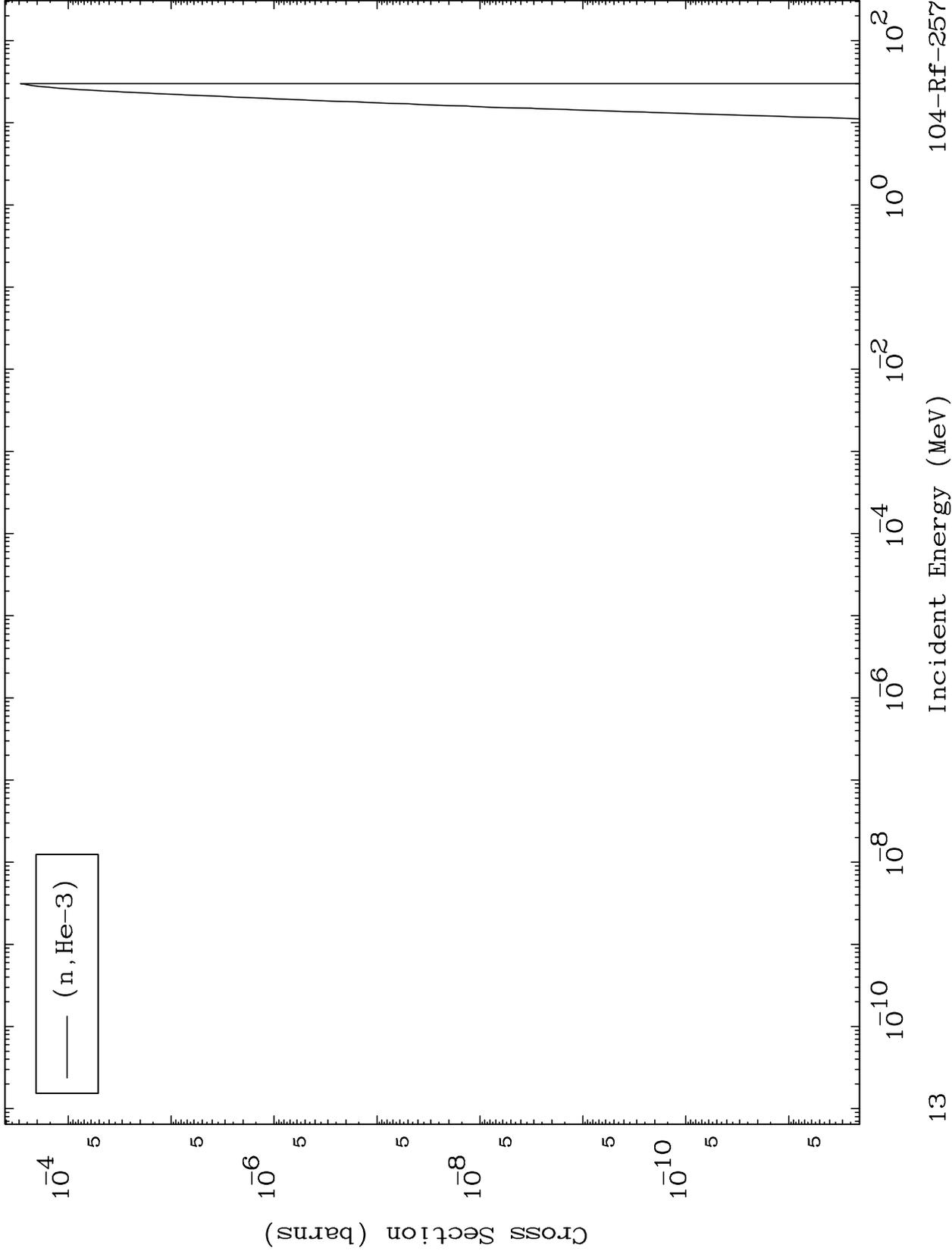
104-Rf-257

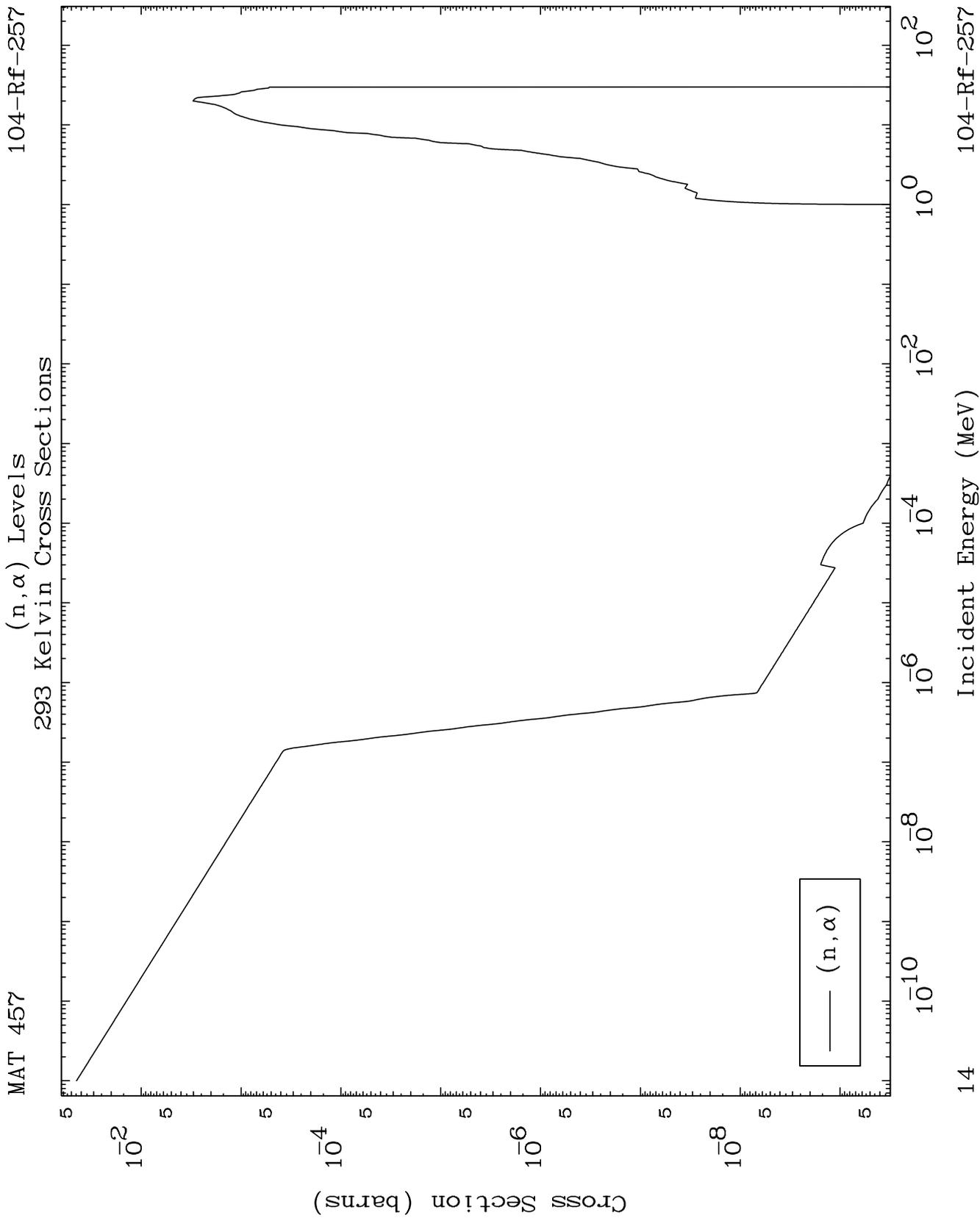
12

MAT 457

(n,He3) Levels
293 Kelvin Cross Sections

104-Rf-257

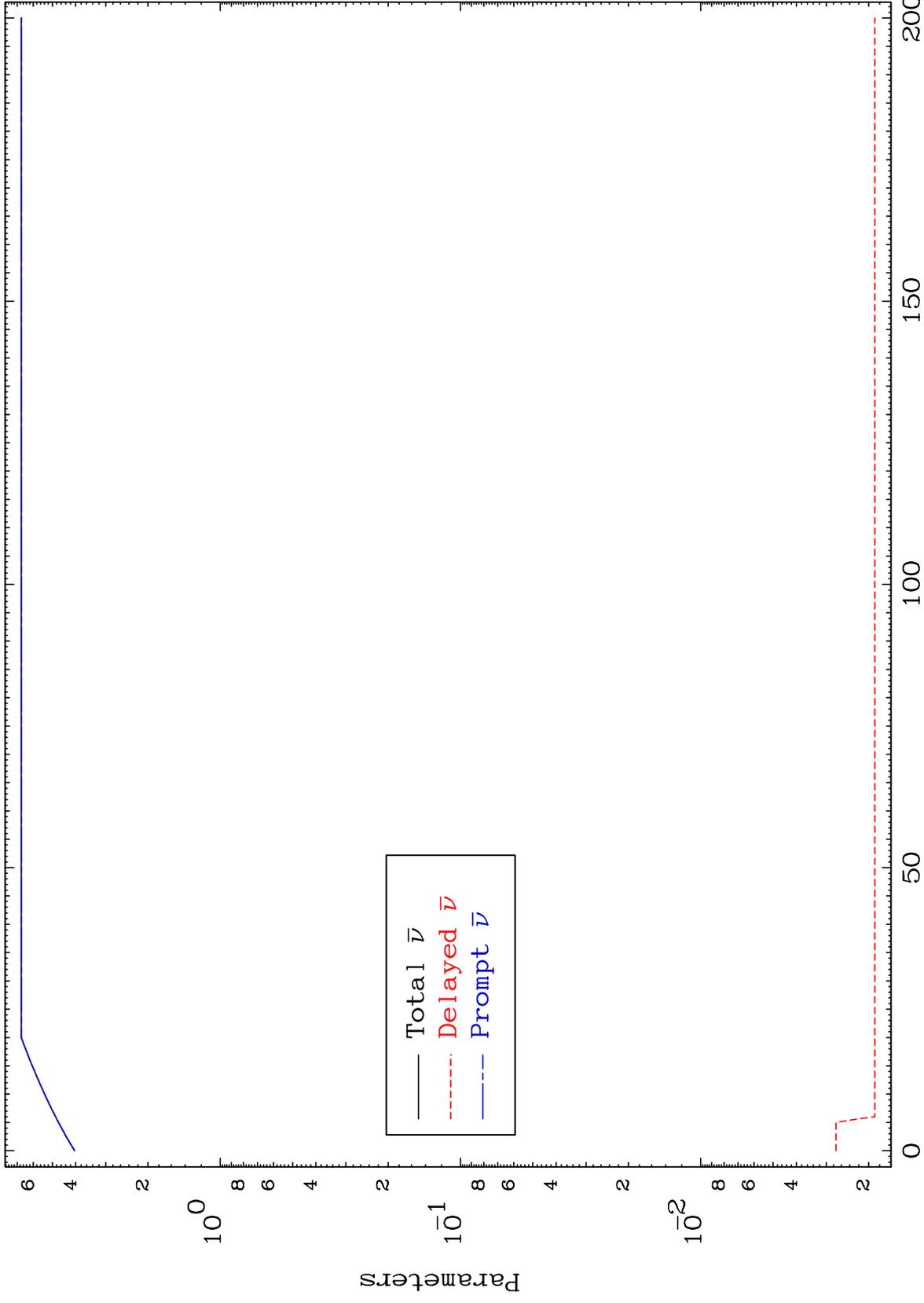




MAT 457

Energy Release
Parameters

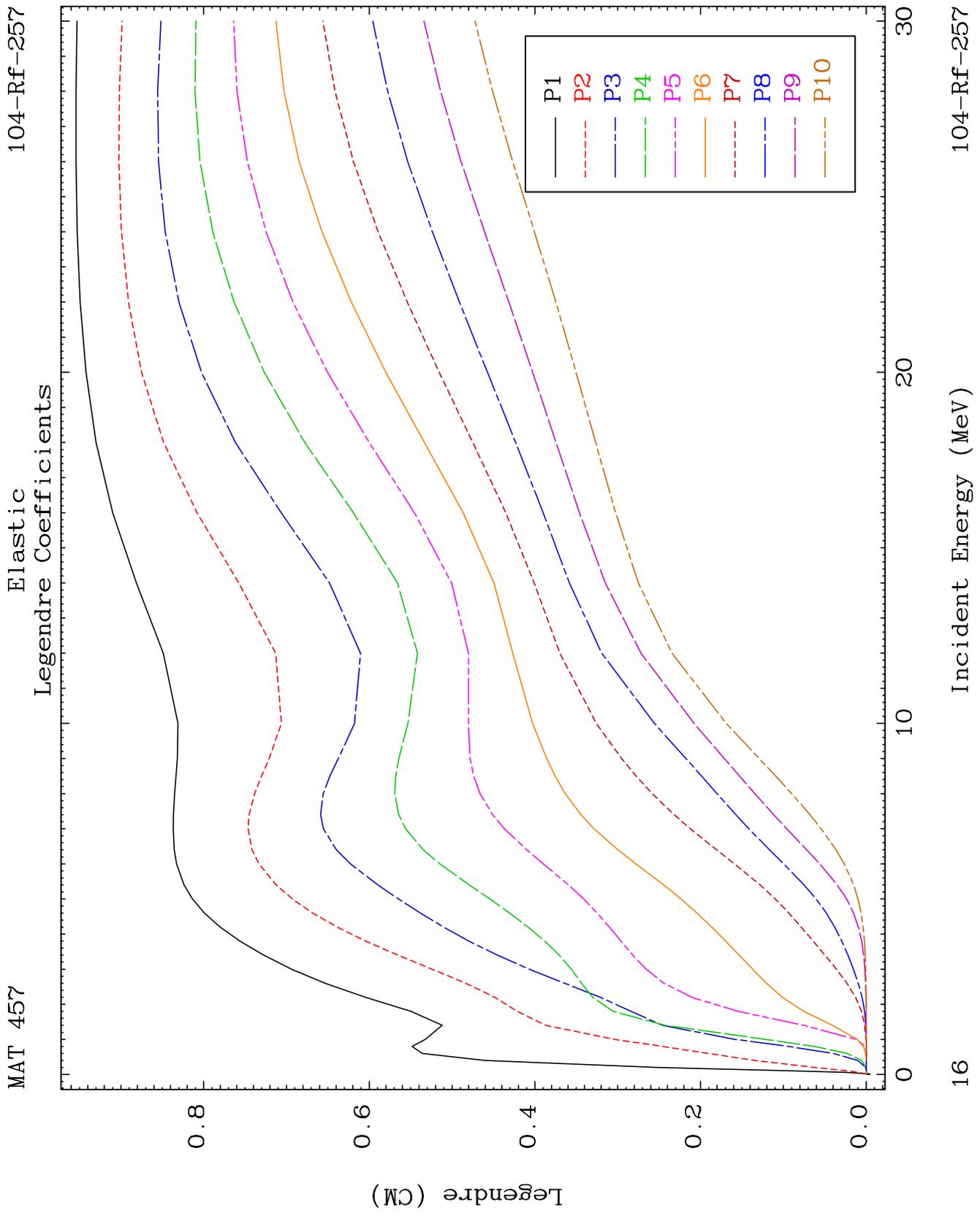
104-Rf-257



15

Incident Energy (MeV)

104-Rf-257



104-Rf-257

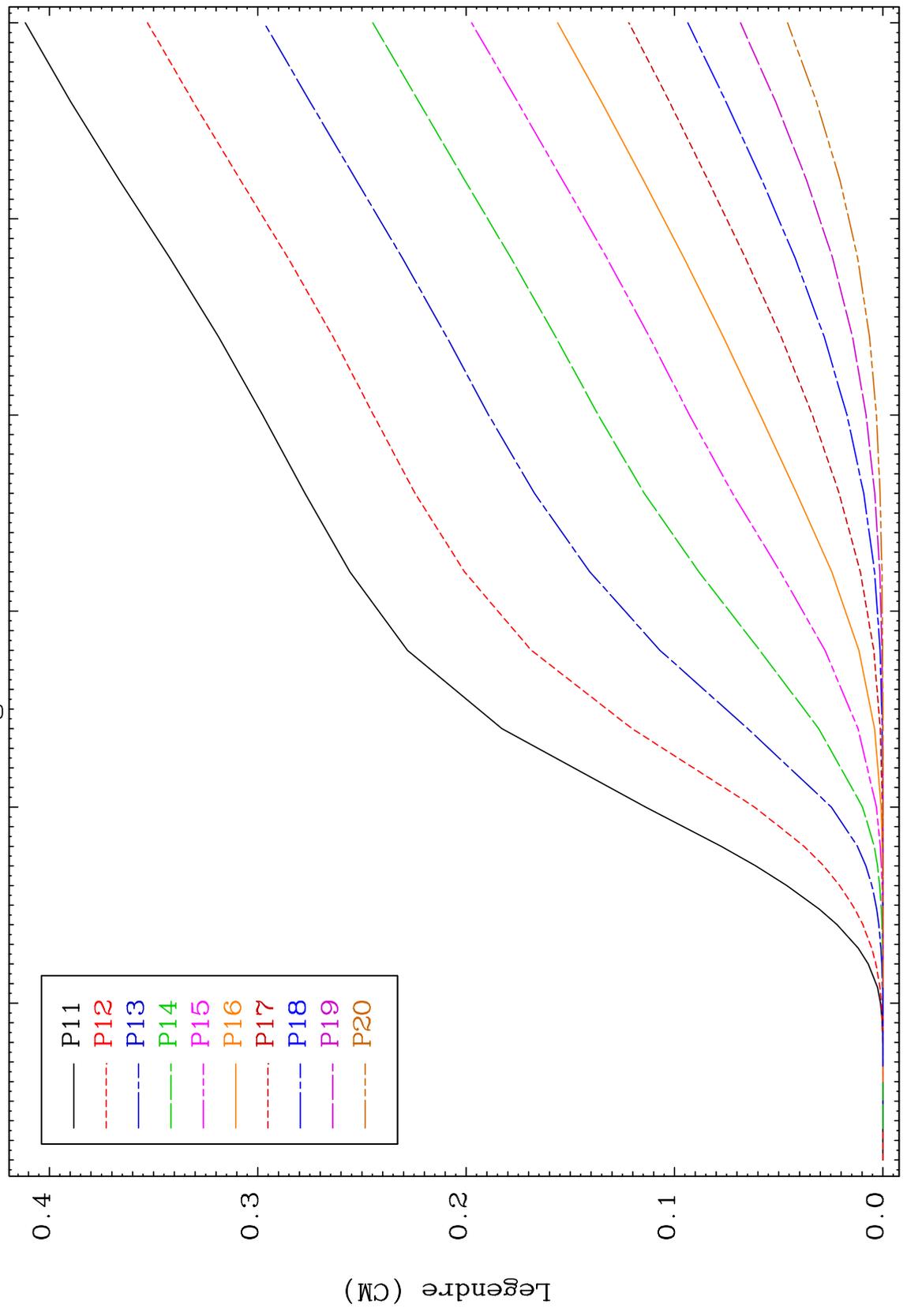
Incident Energy (MeV)

16

MAT 457

Elastic Legendre Coefficients

104-Rf-257



17

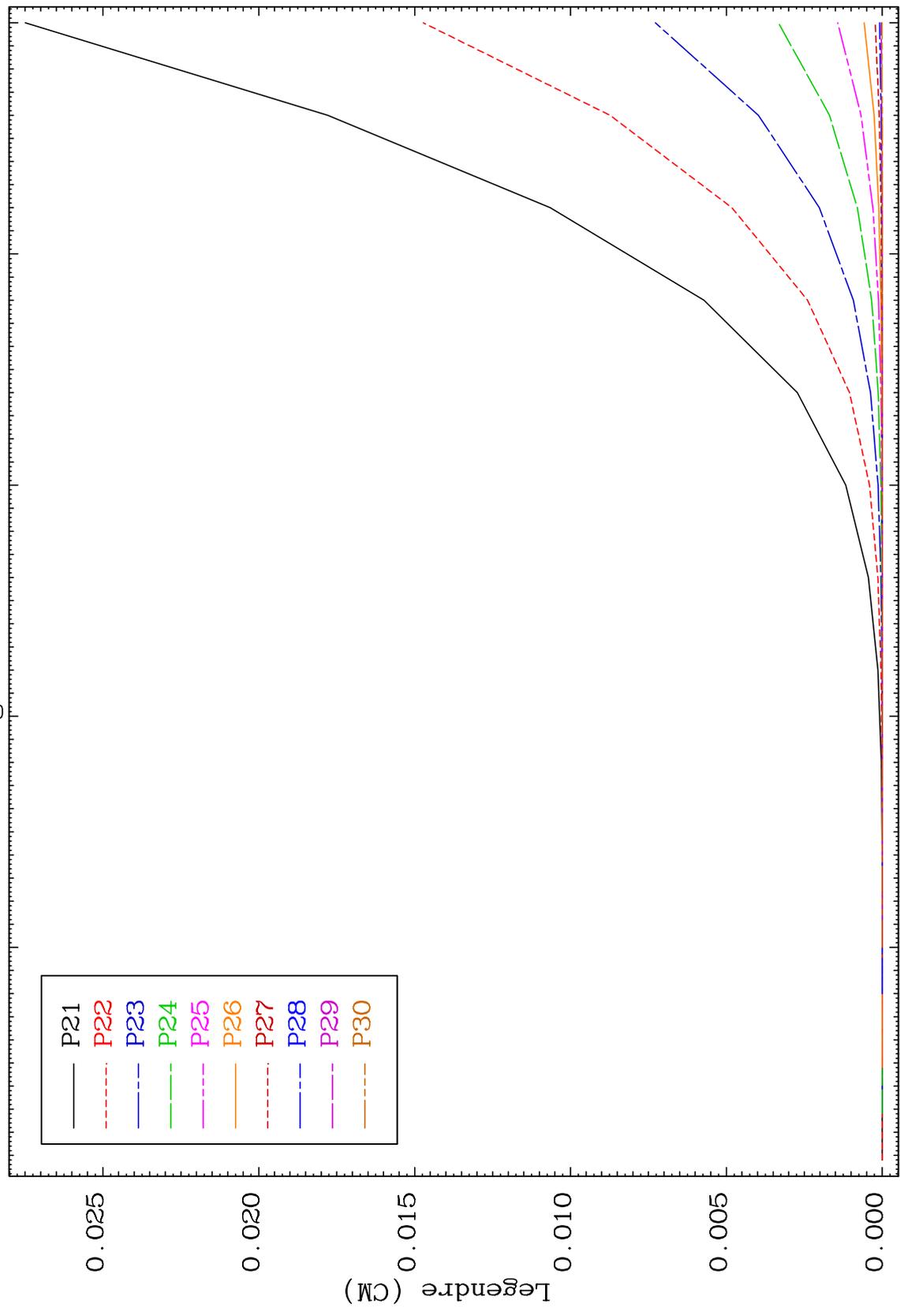
Incident Energy (MeV)

104-Rf-257

MAT 457

Elastic Legendre Coefficients

104-Rf-257



18

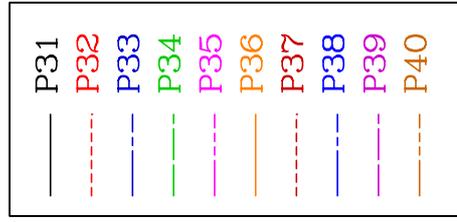
Incident Energy (MeV)

104-Rf-257

MAT 457

Elastic Legendre Coefficients

104-Rf-257



$\times 10^{-6}$

3

2

1

0

15

20

25

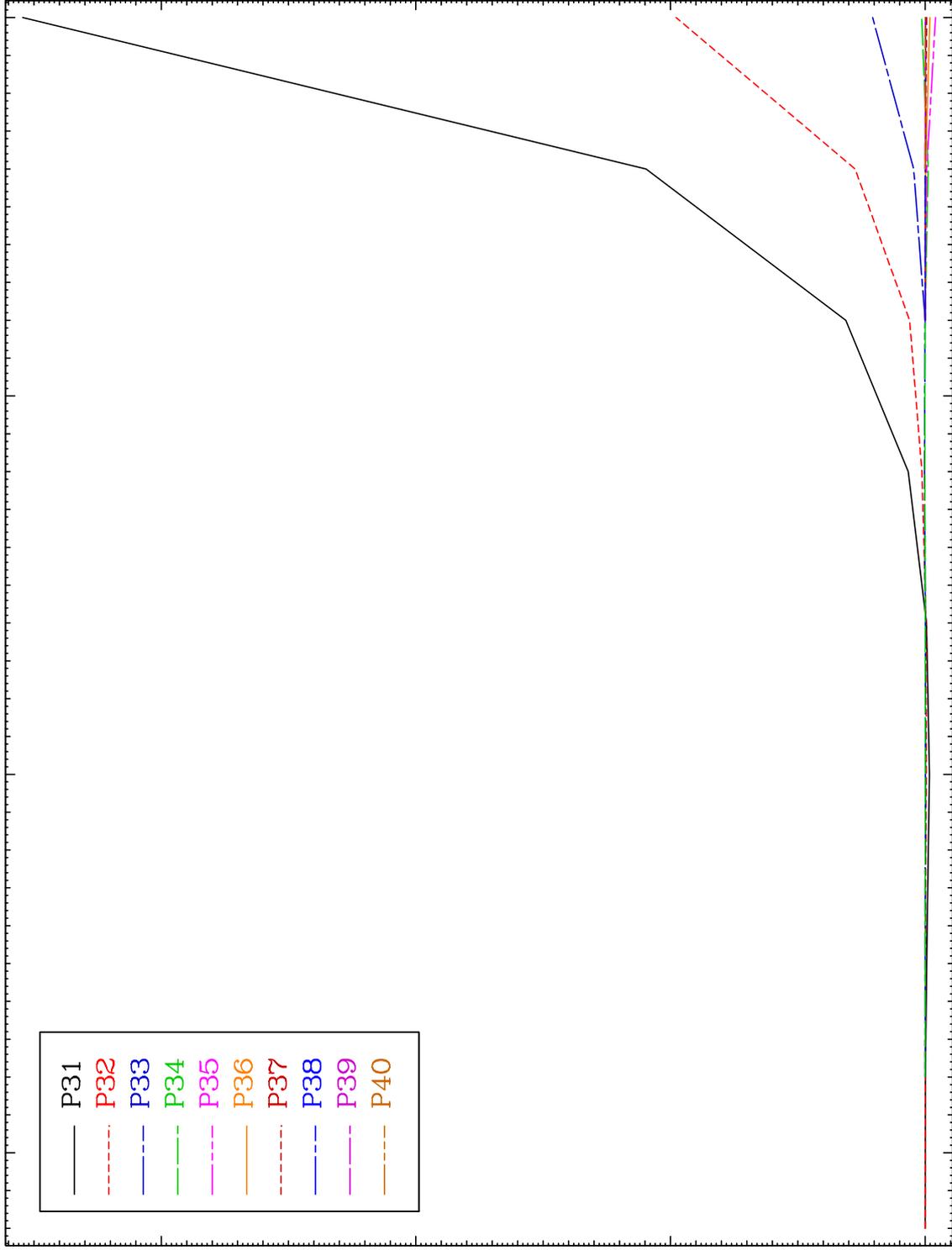
30

Legendre (CM)

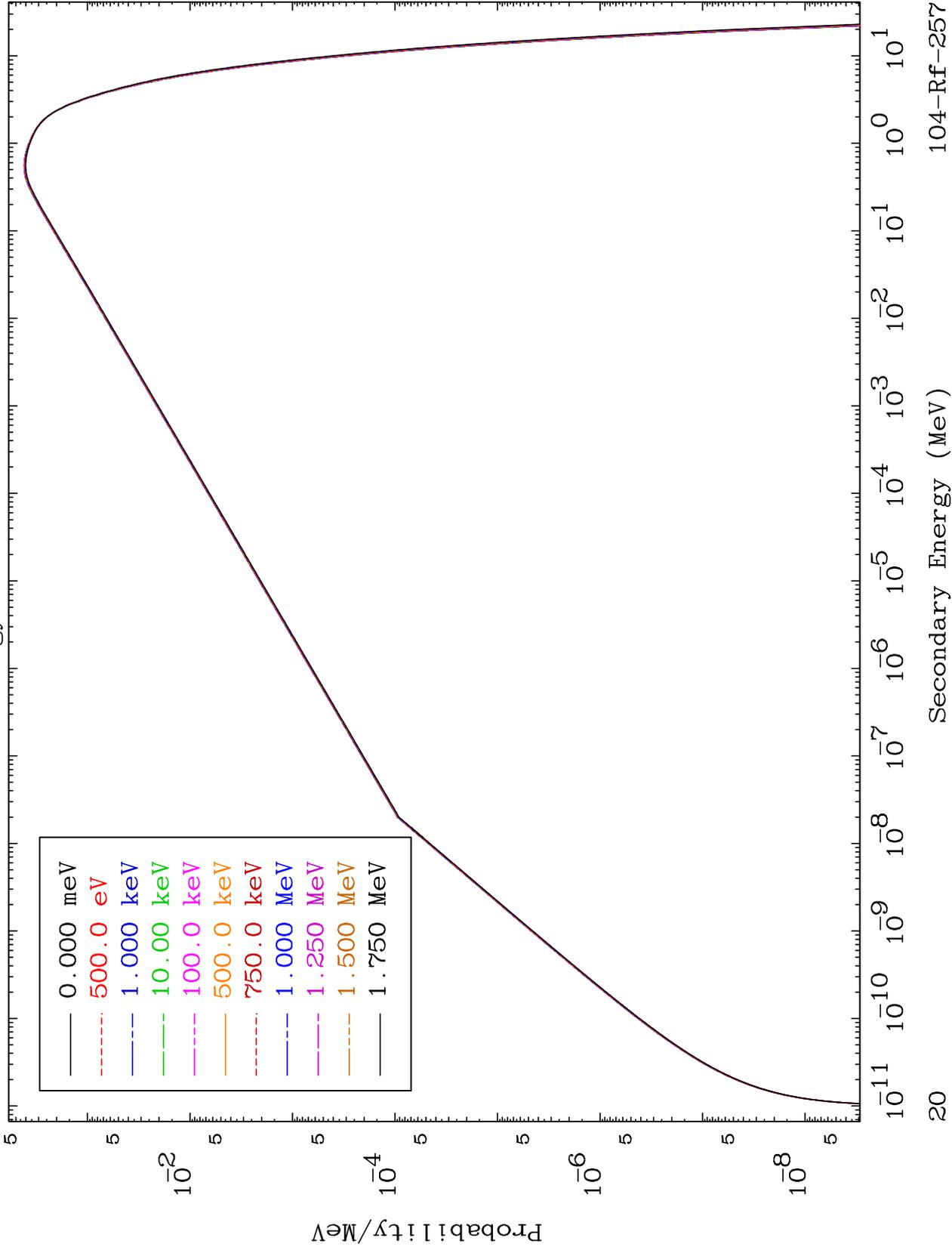
19

Incident Energy (MeV)

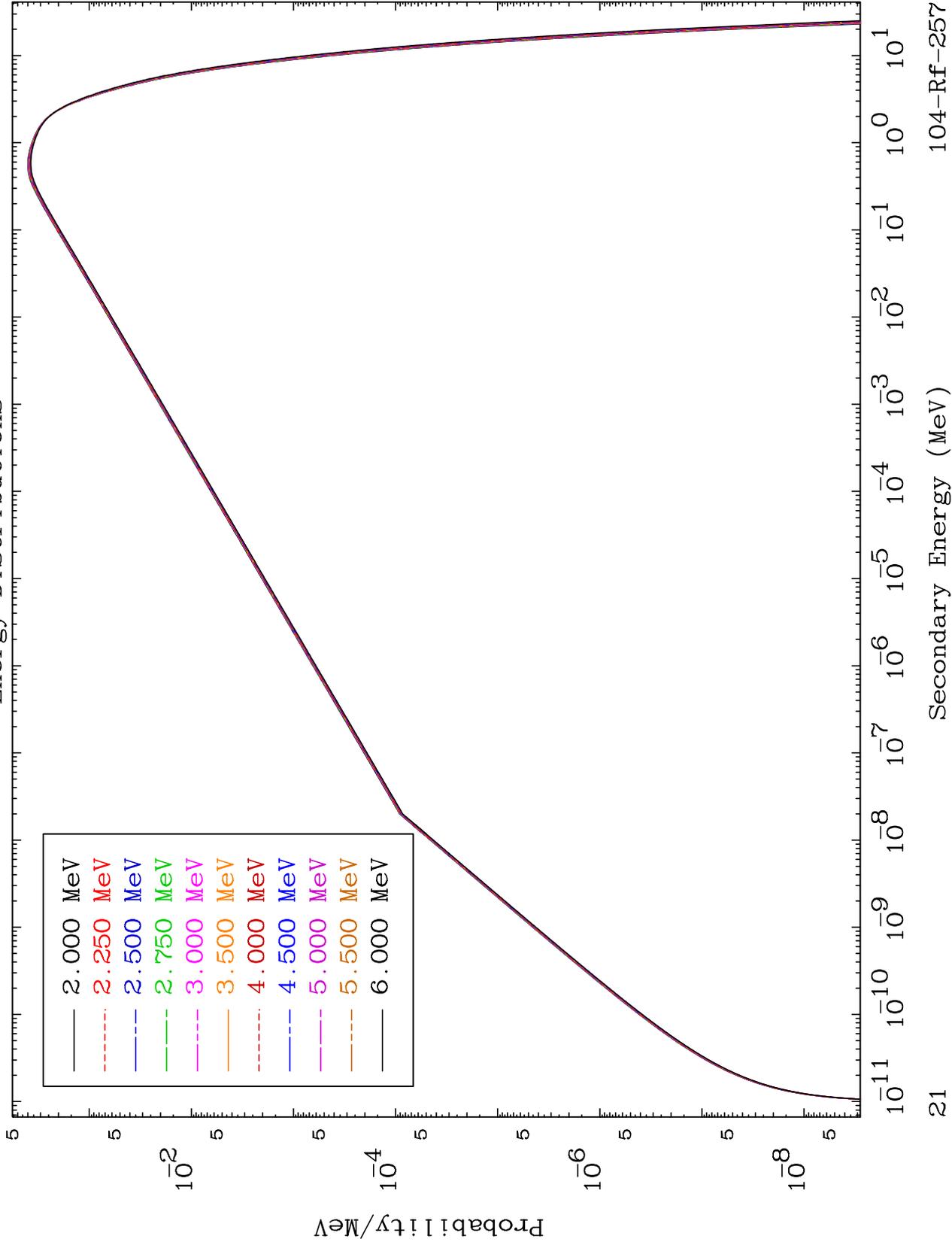
104-Rf-257



Fission Energy Distributions



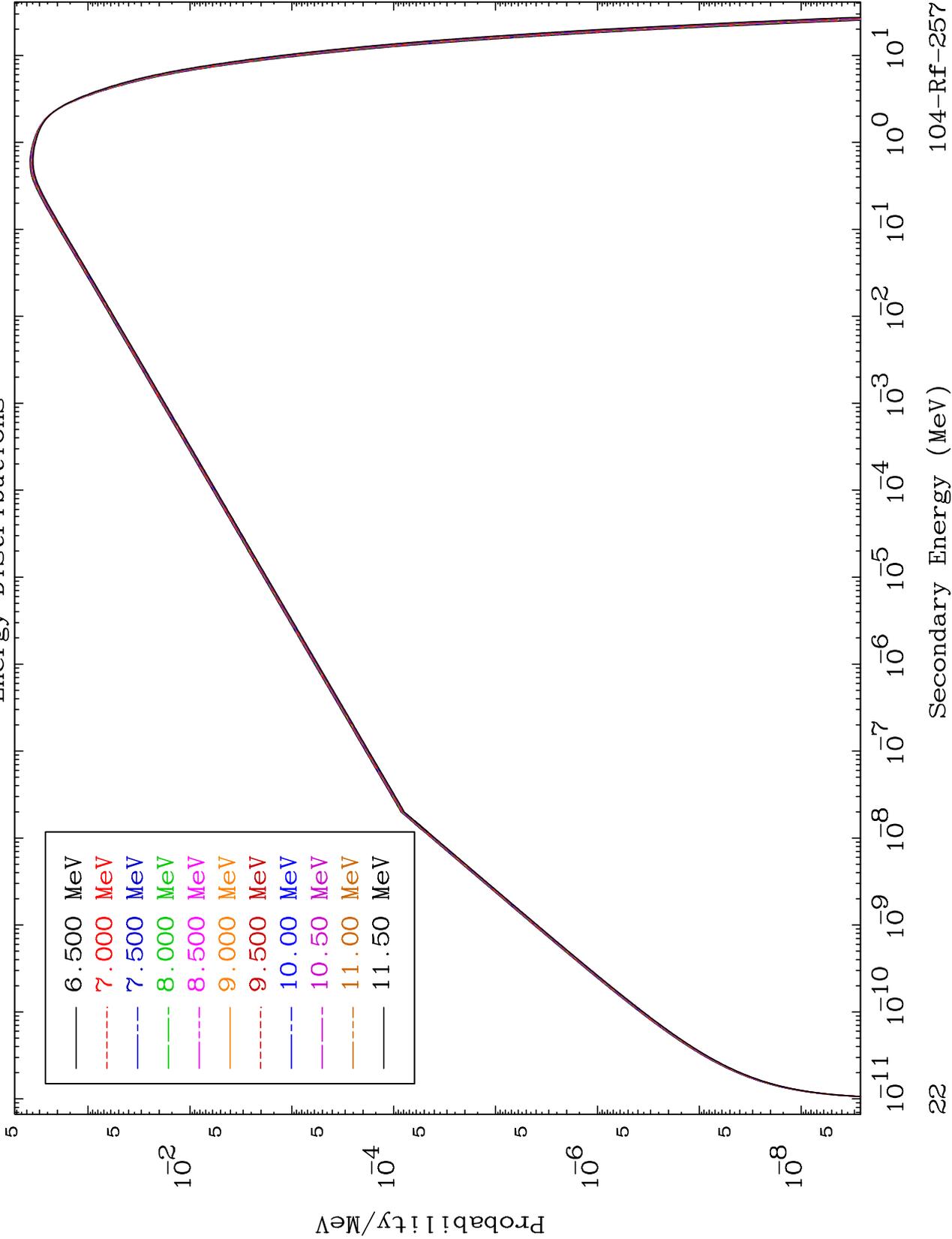
Fission Energy Distributions



MAT 457

Fission Energy Distributions

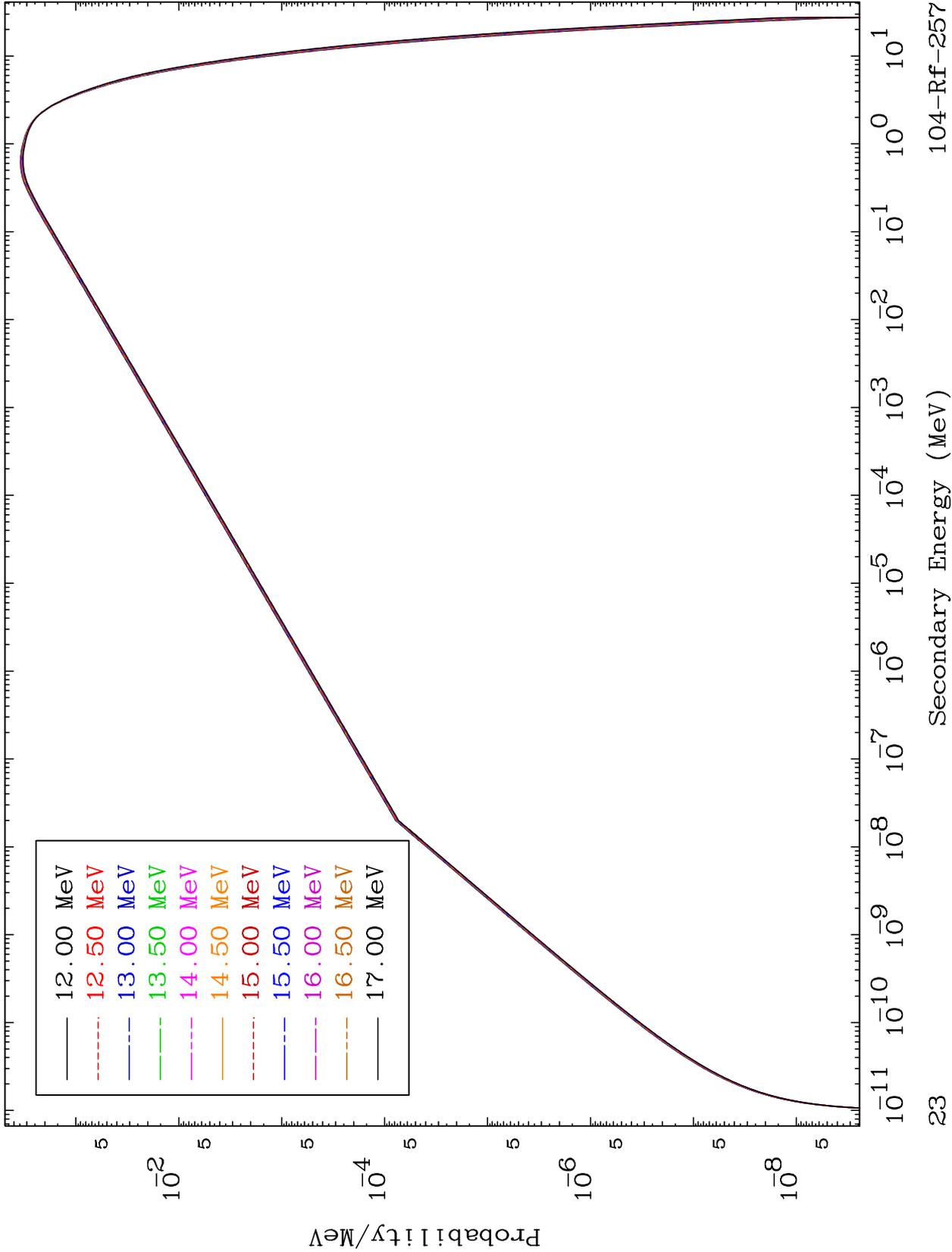
104-Rf-257



MAT 457

Fission Energy Distributions

104-Rf-257



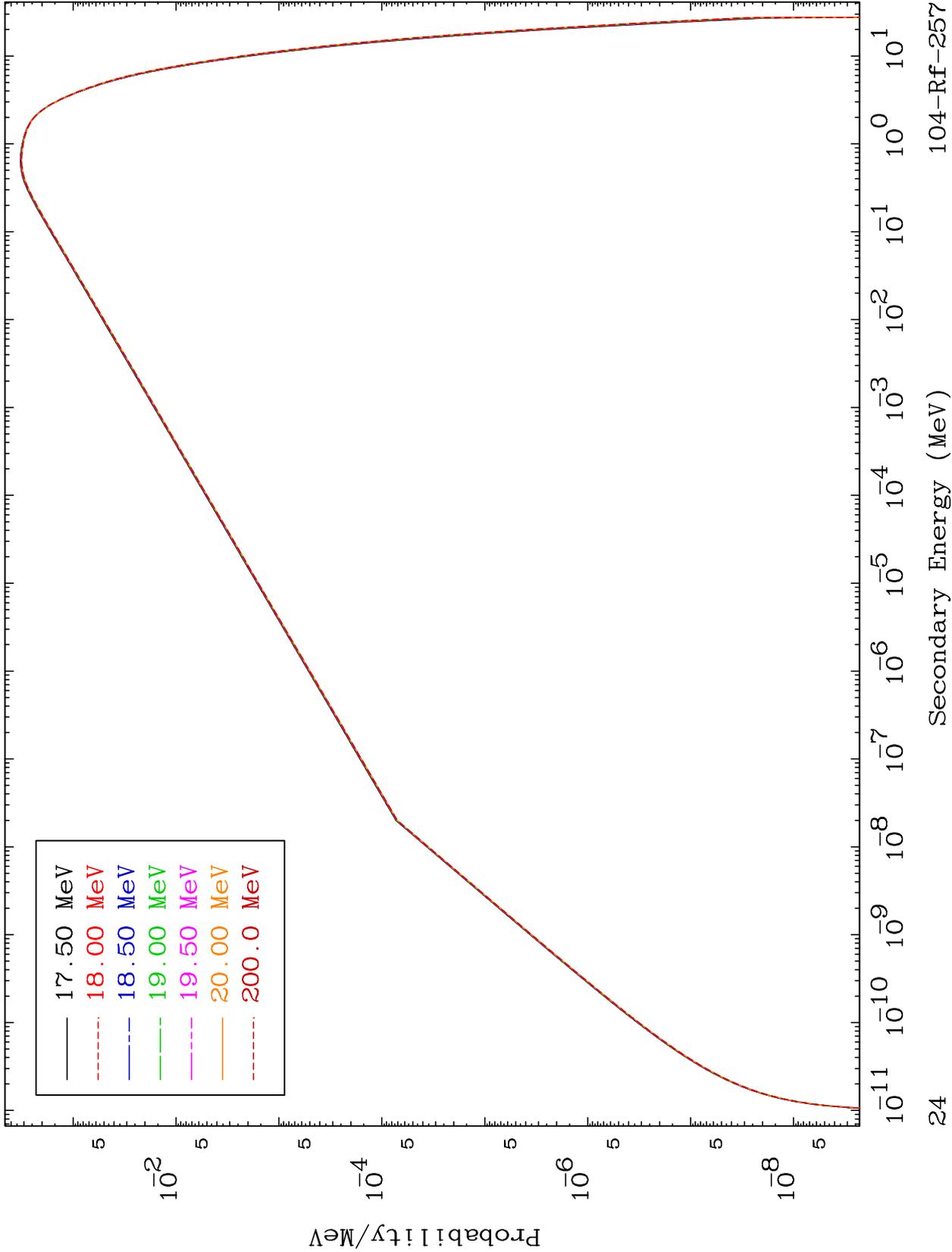
104-Rf-257

Secondary Energy (MeV)

MAT 457

Fission Energy Distributions

104-Rf-257



104-Rf-257

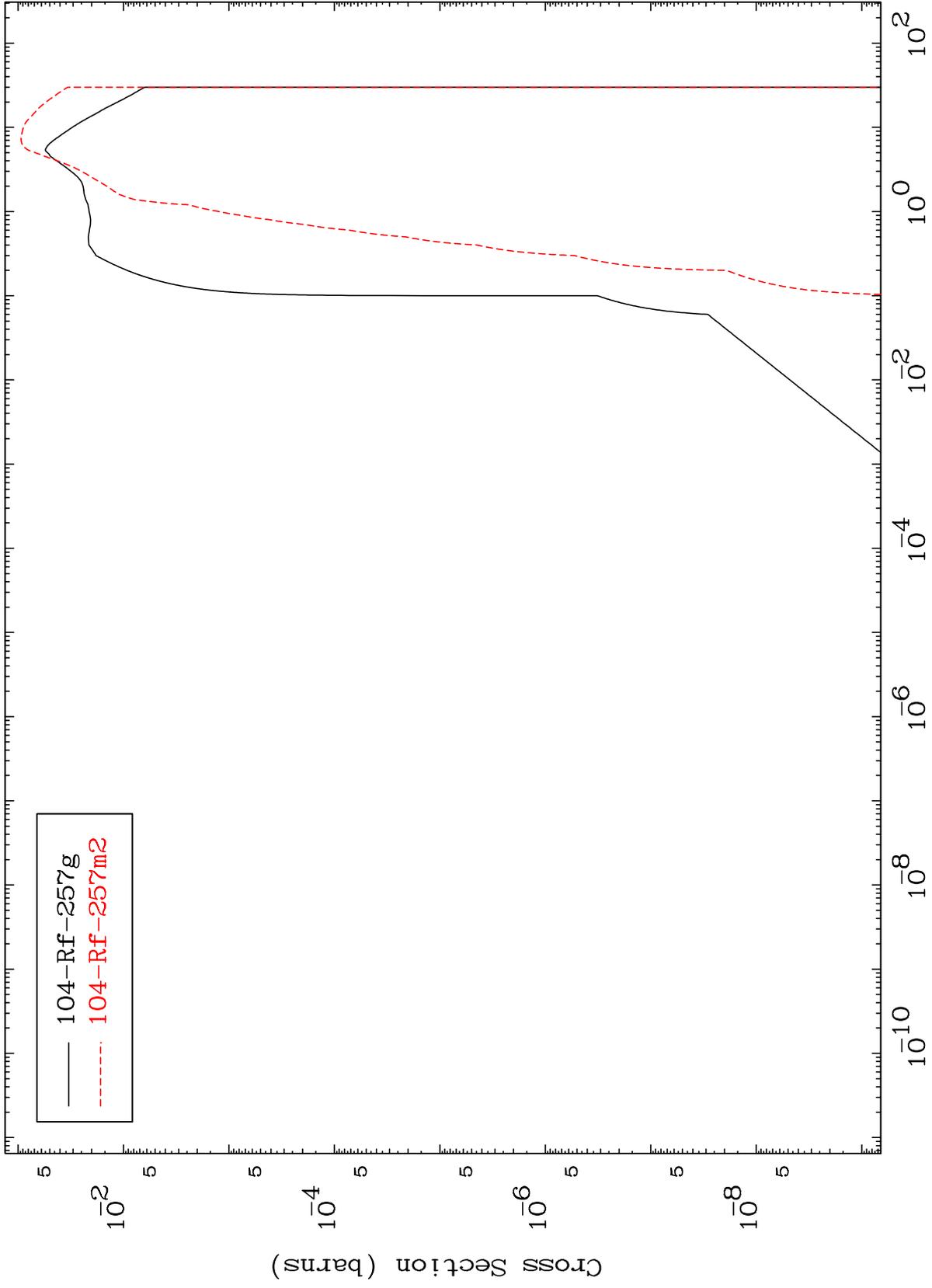
Secondary Energy (MeV)

24

MAT 457

Radionuclide Production Cross Section

104-Rf-257



— 104-Rf-257g
- - - 104-Rf-257m2

25

Incident Energy (MeV)

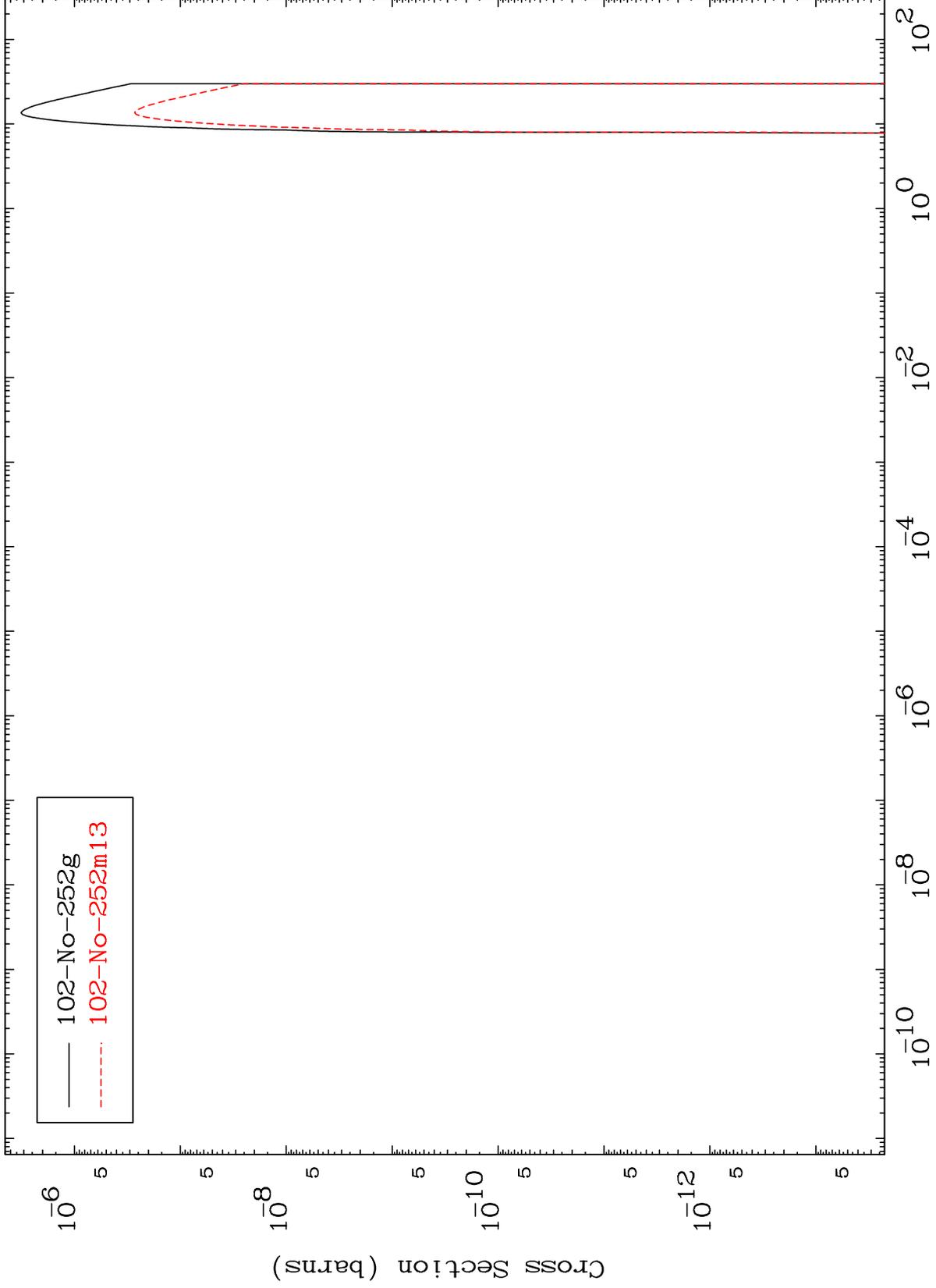
104-Rf-257

MAT 457

(n,2n) α

104-Rf-257

Radionuclide Production Cross Section



26

Incident Energy (MeV)

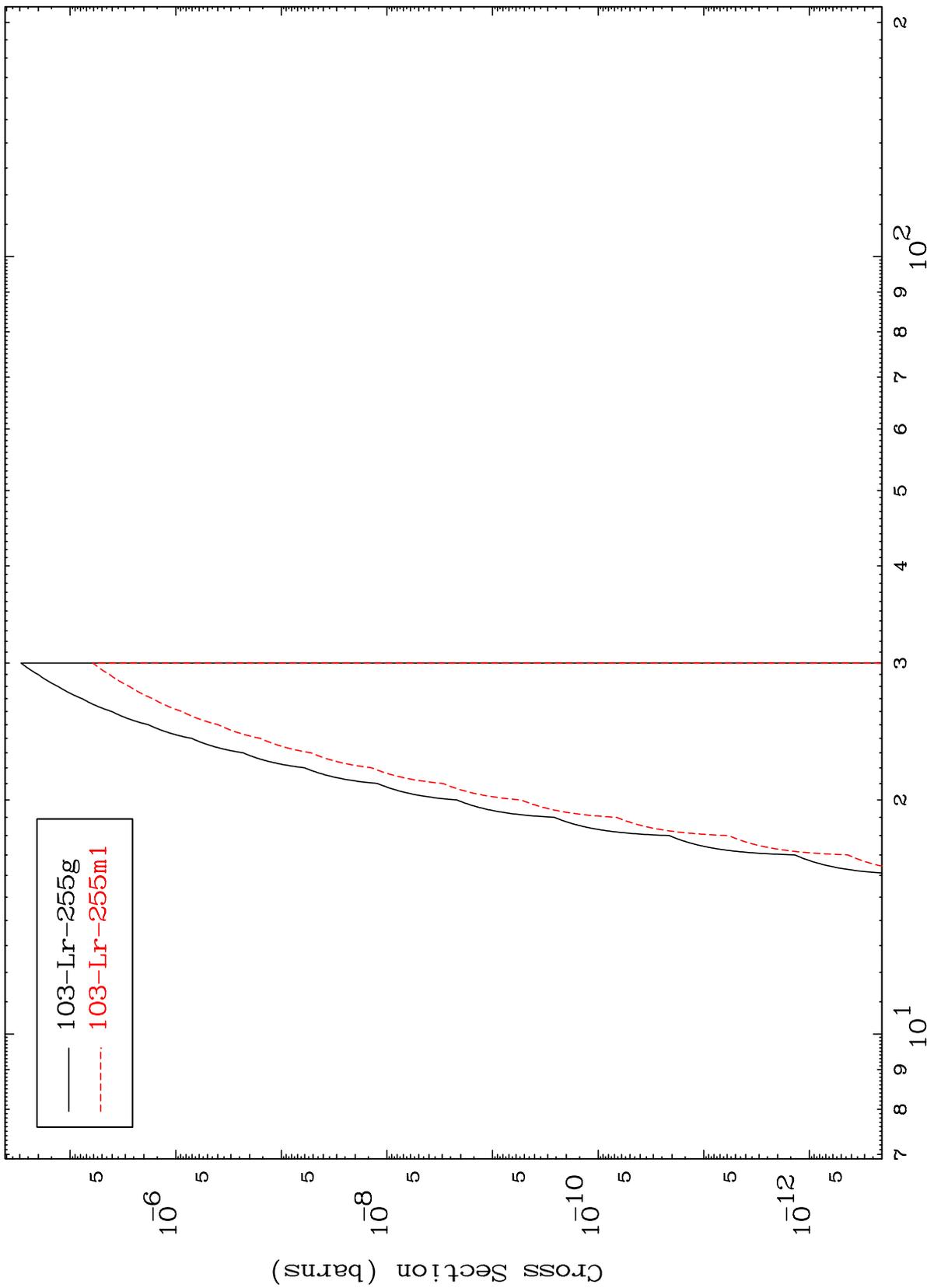
104-Rf-257

MAT 457

(n,n') d

104-Rf-257

Radionuclide Production Cross Section



Legend:
— 103-Lr-255g
- - - 103-Lr-255m1

27

Incident Energy (MeV)

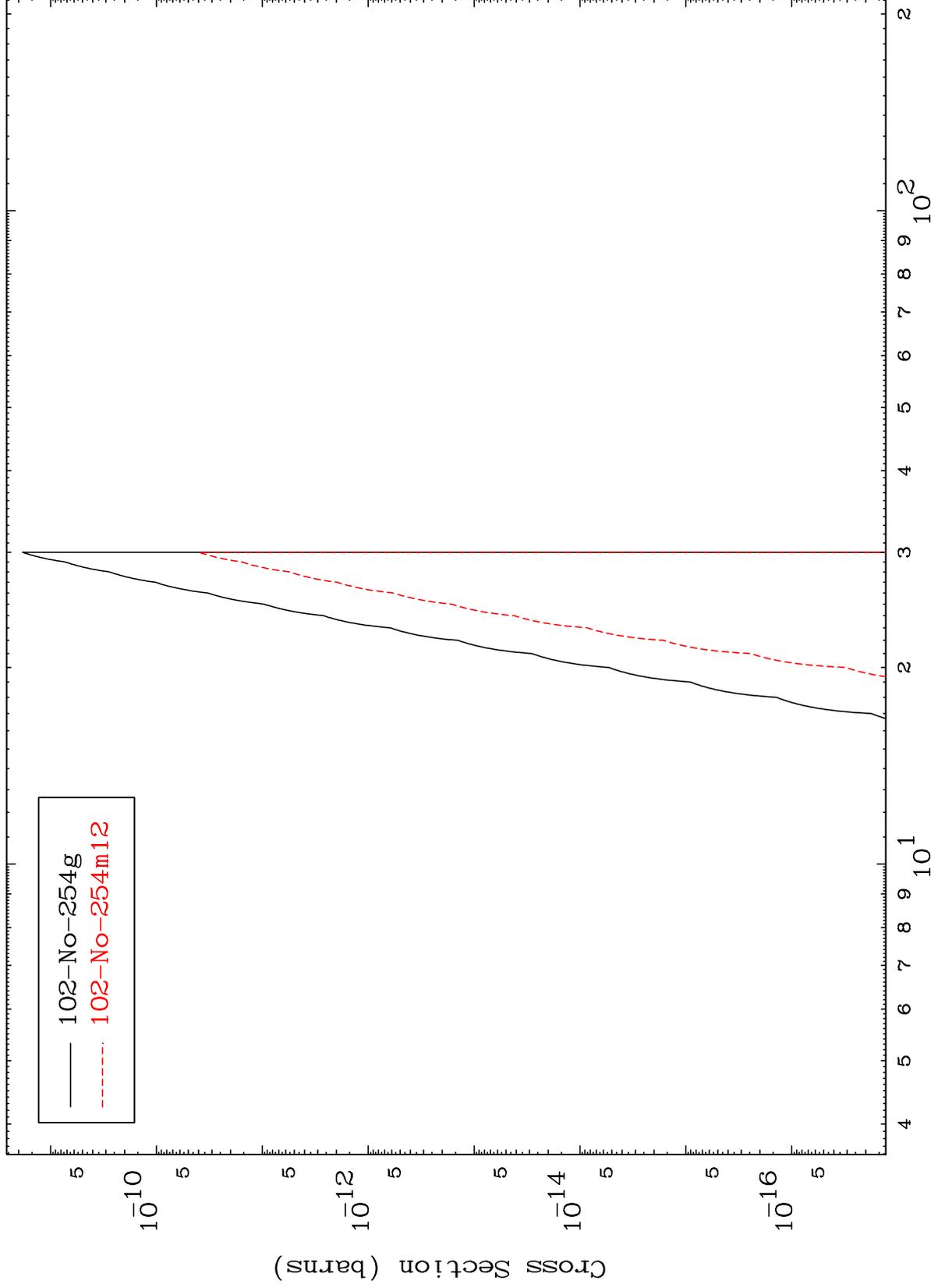
104-Rf-257

MAT 457

(n,n') He-3

104-Rf-257

Radionuclide Production Cross Section



28

Incident Energy (MeV)

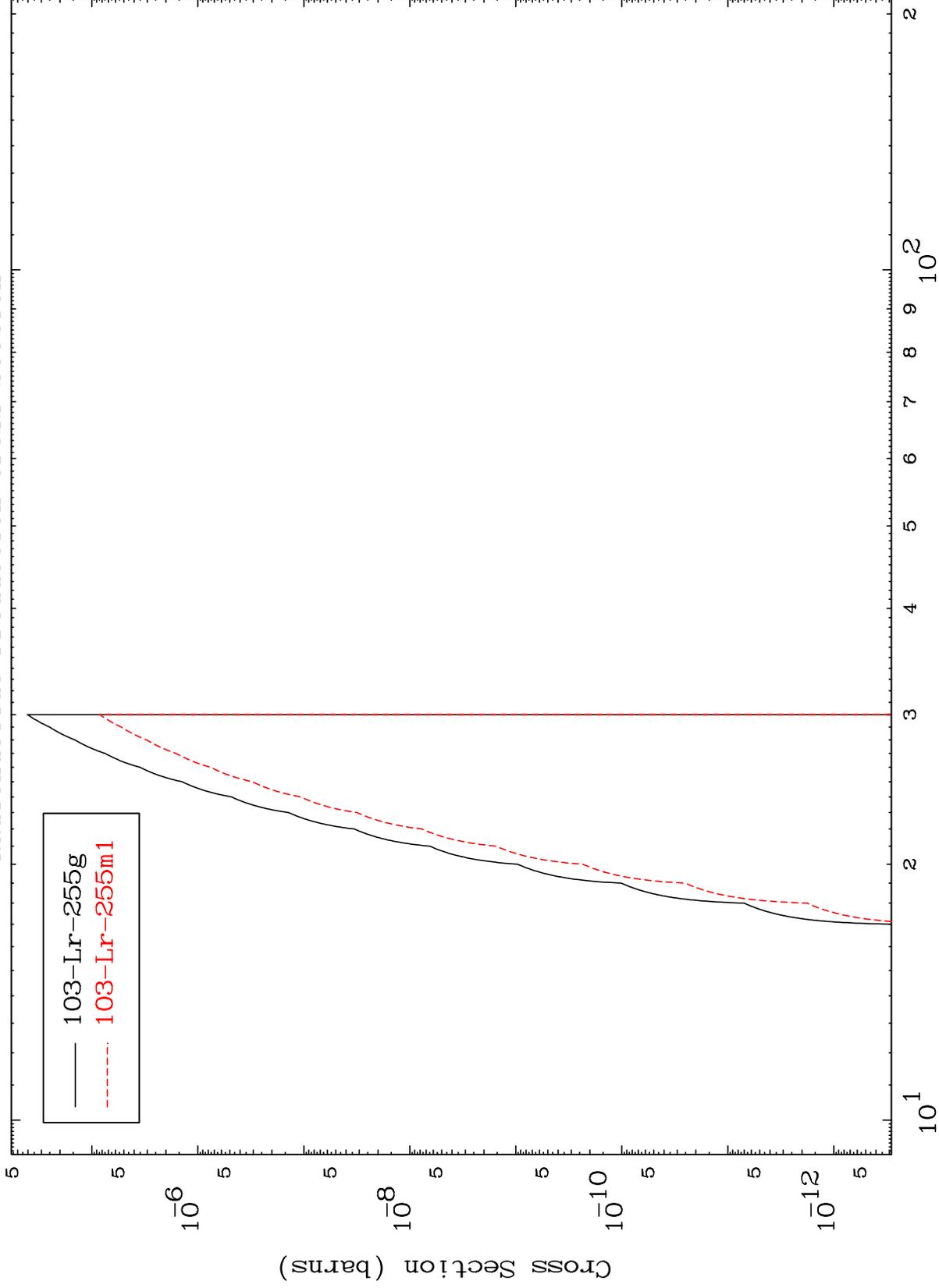
104-Rf-257

MAT 457

(n,2n) p

104-Rf-257

Radionuclide Production Cross Section



29

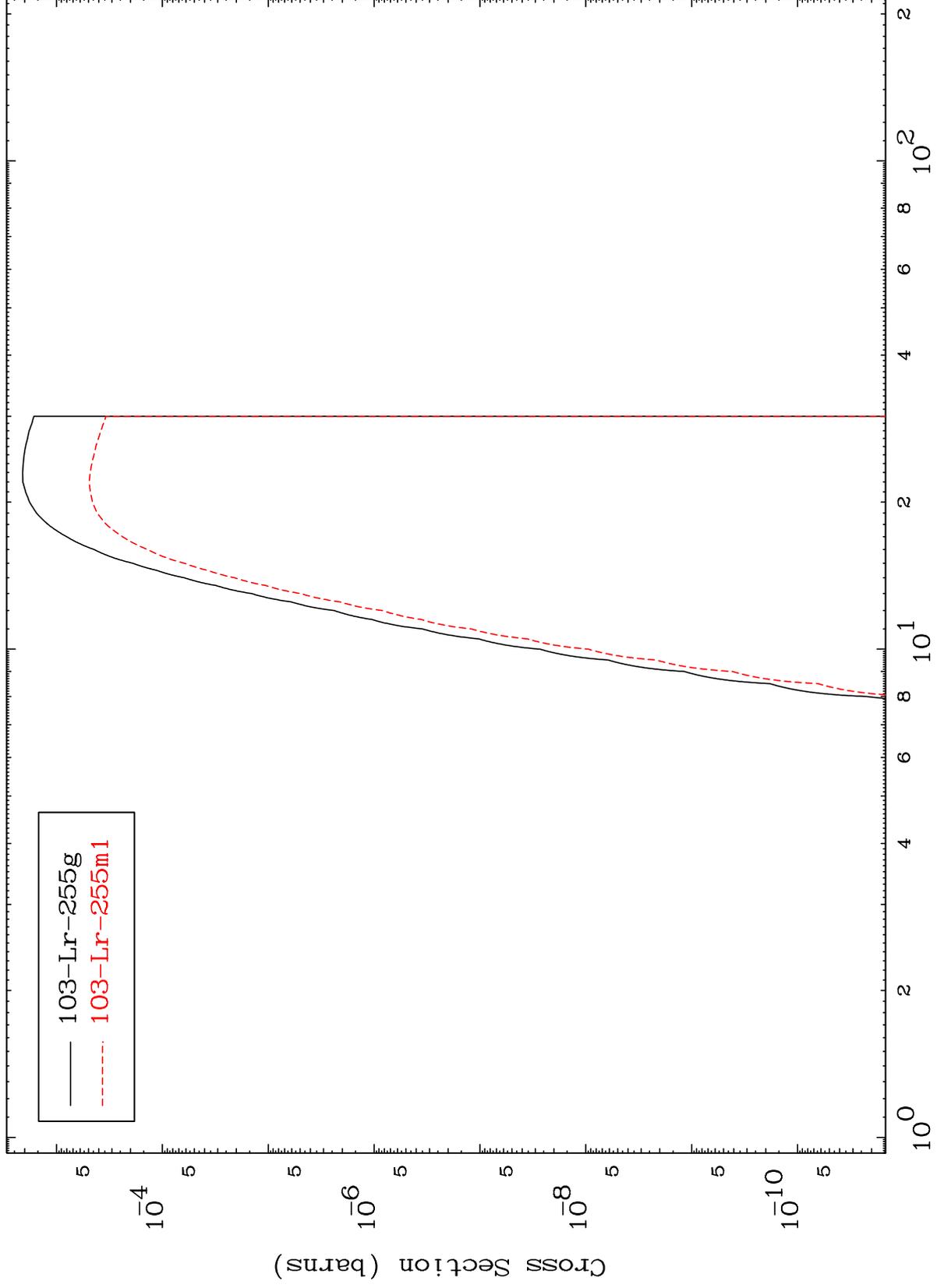
Incident Energy (MeV)

104-Rf-257

MAT 457

104-Rf-257

(n, t)
Radionuclide Production Cross Section



— 103-Lr-255g
- - - 103-Lr-255m1

104-Rf-257

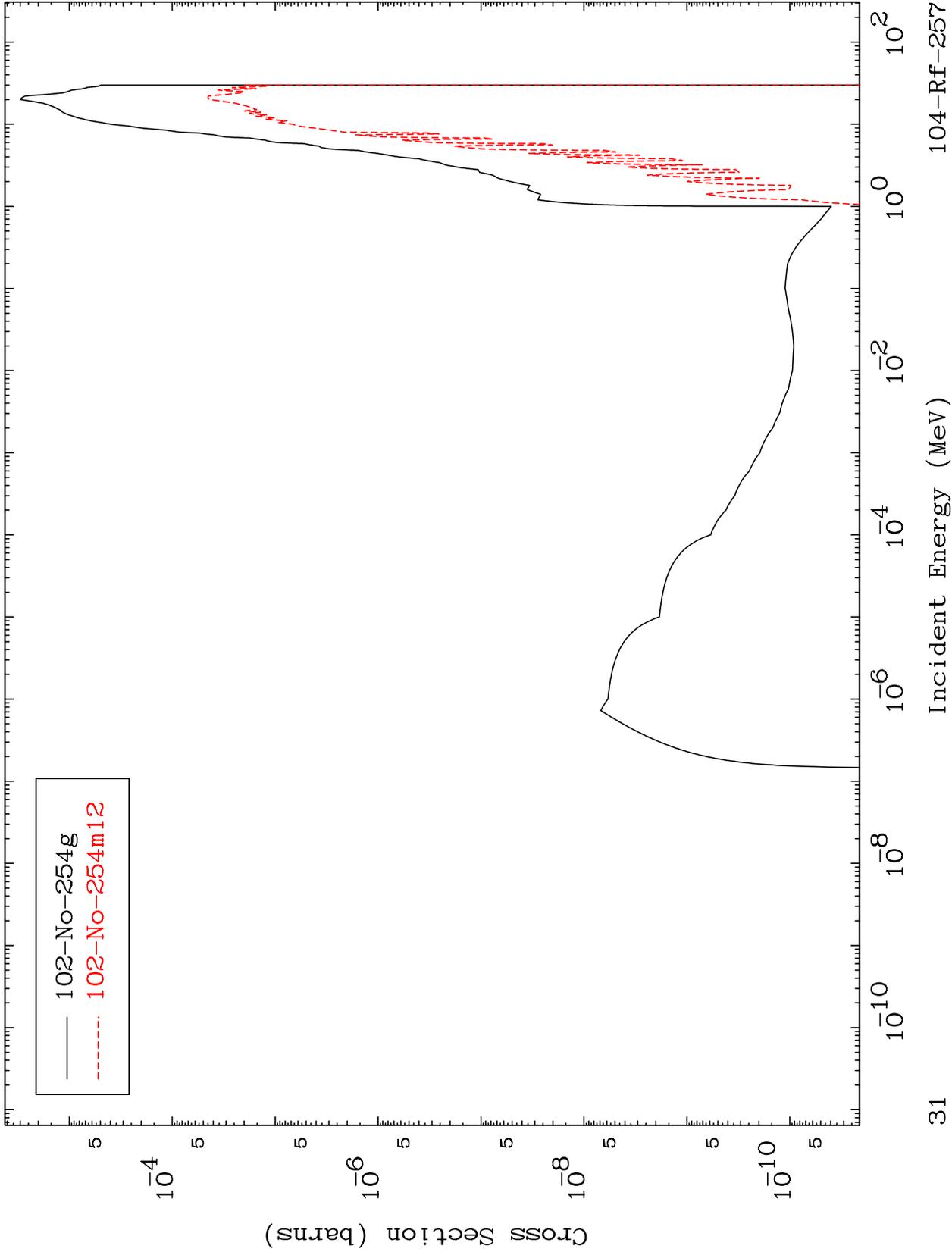
Incident Energy (MeV)

30

MAT 457

104-Rf-257

Radionuclide Production Cross Section
(n, α)



31

104-Rf-257