

Program Complot
(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

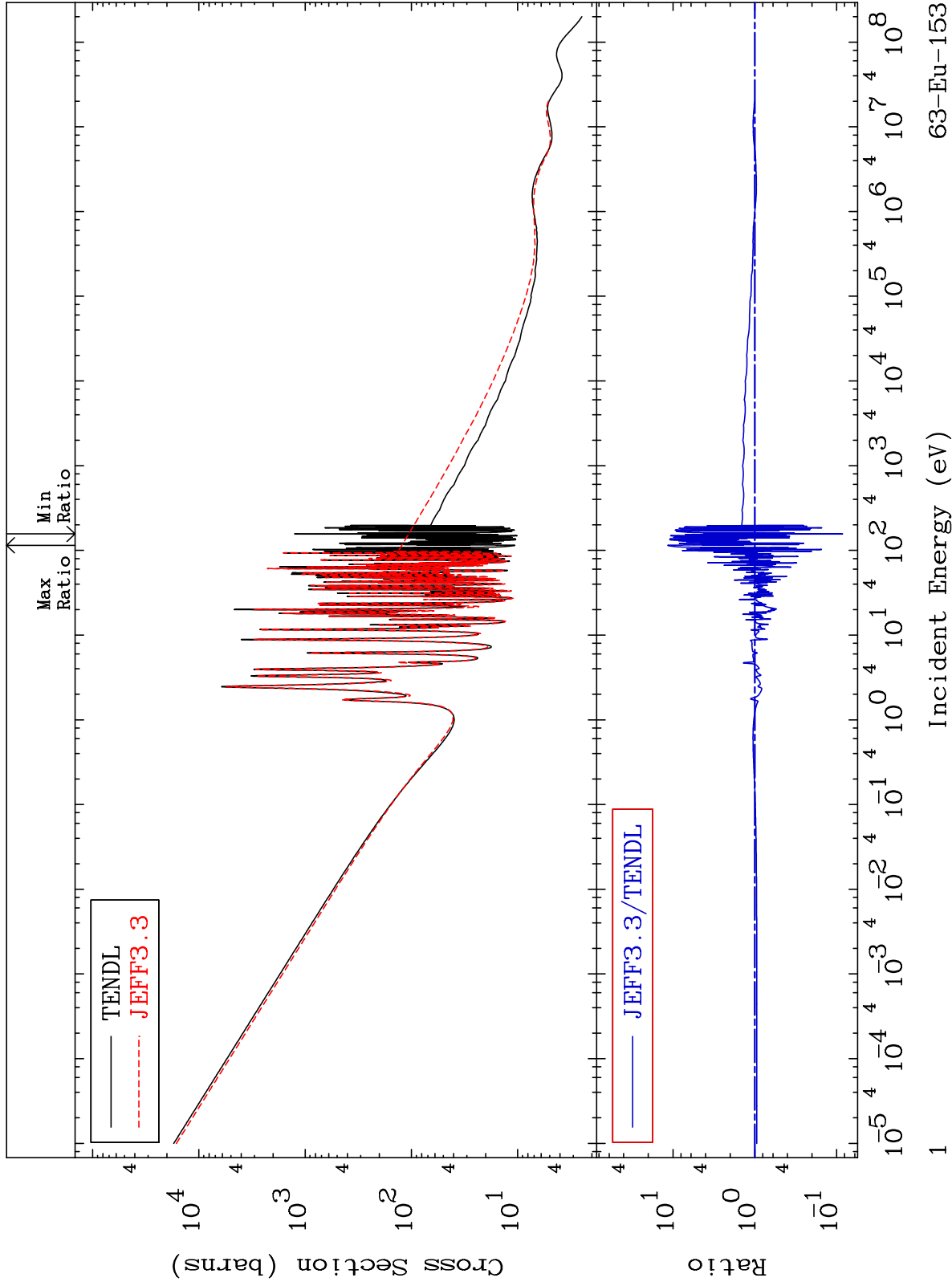
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6331

Total
Cross Section

63-Eu-153
-91.56 To 1064. %



63-Eu-153

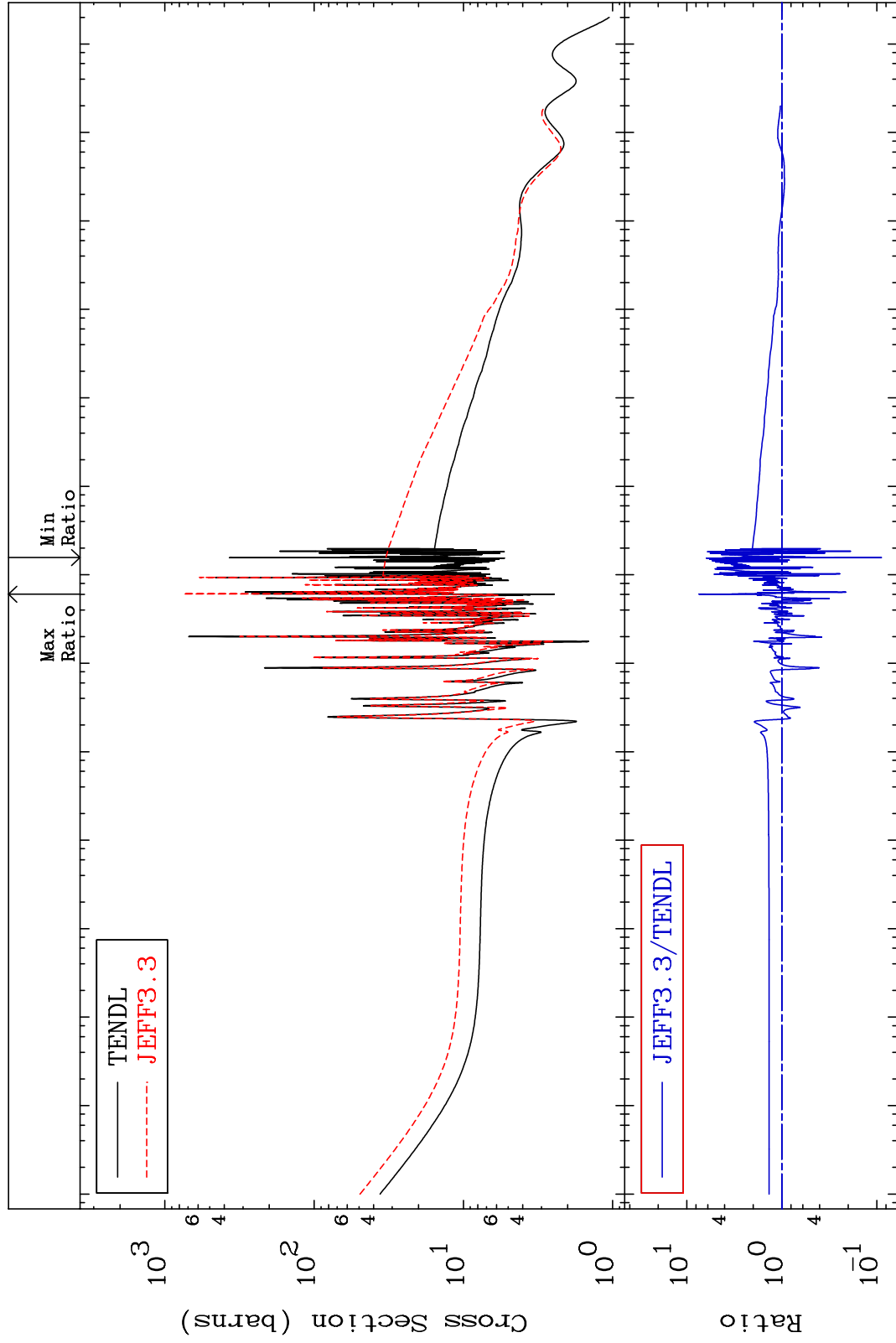
MAT 6331

Elastic

63-Eu-153

-91.10 To 650.0 %

Cross Section

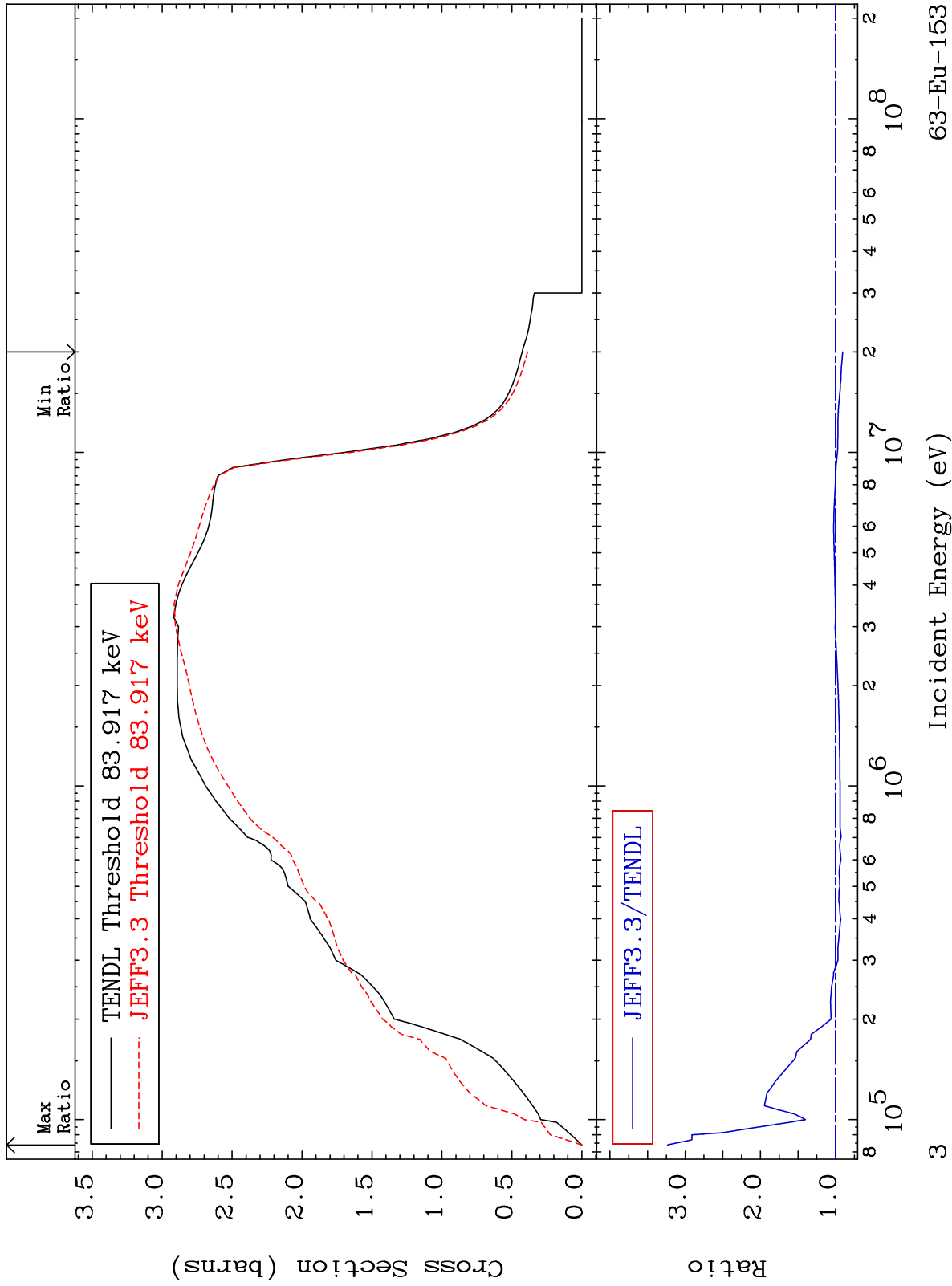


Incident Energy (eV)

63-Eu-153

2

MAT 6331 63-Eu-153 -9.359 To 223.4 % Inelastic Cross Section



63-Eu-153

Incident Energy (eV)

3

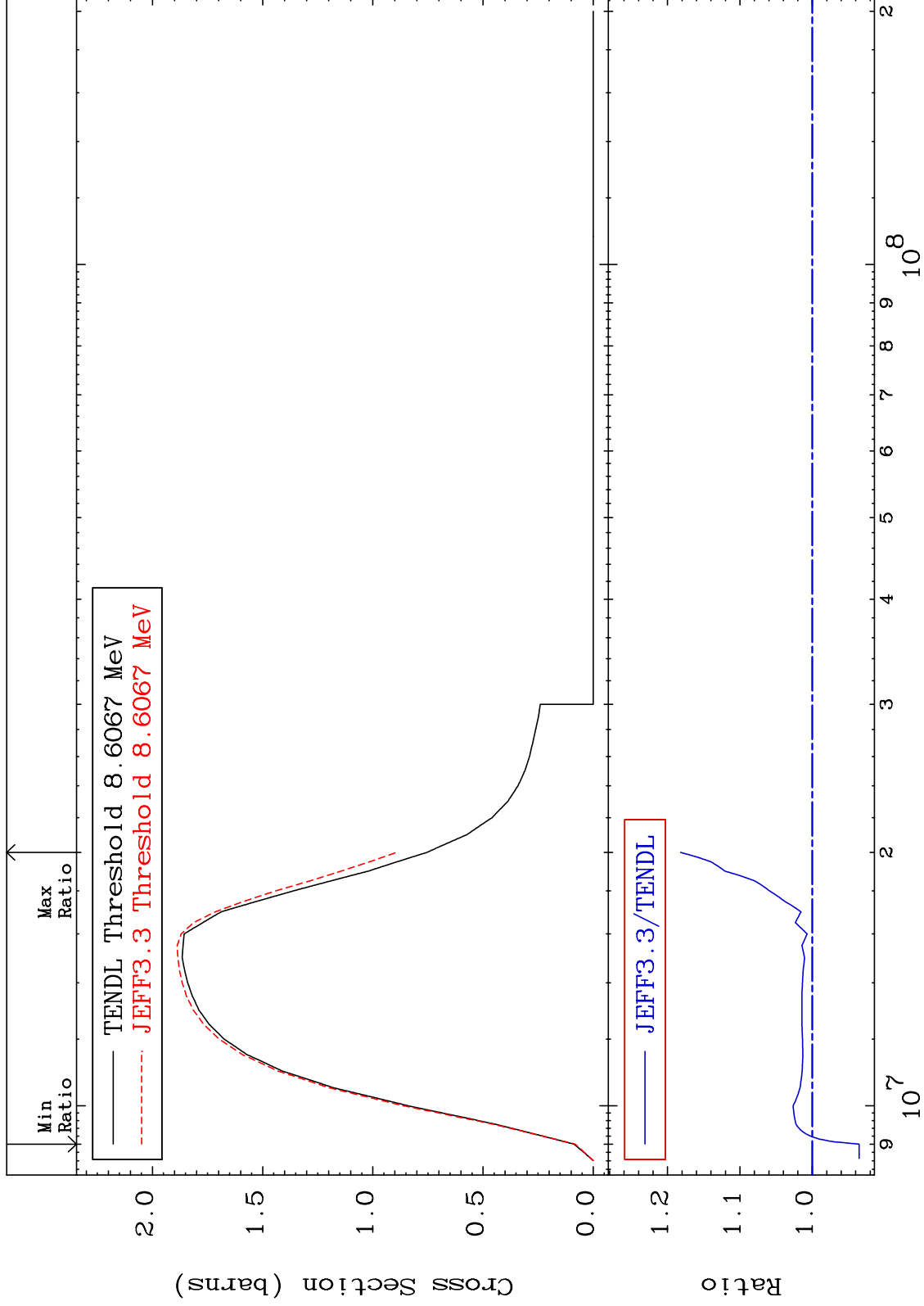
MAT 6331

(n,2n)

63-Eu-153

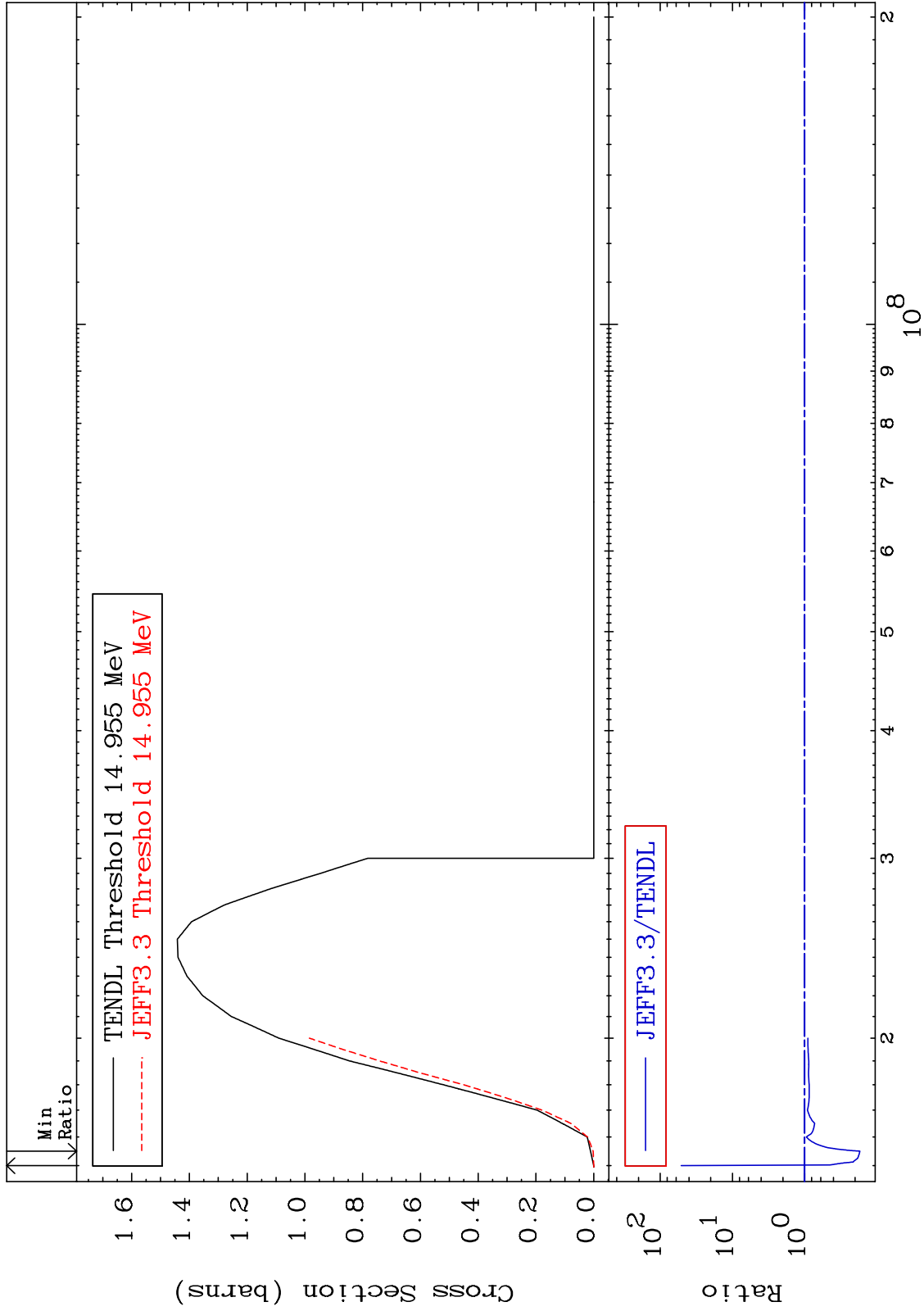
Cross Section

-6.479 To 18.19 %



Cross Section

-82.84 To 5018. %



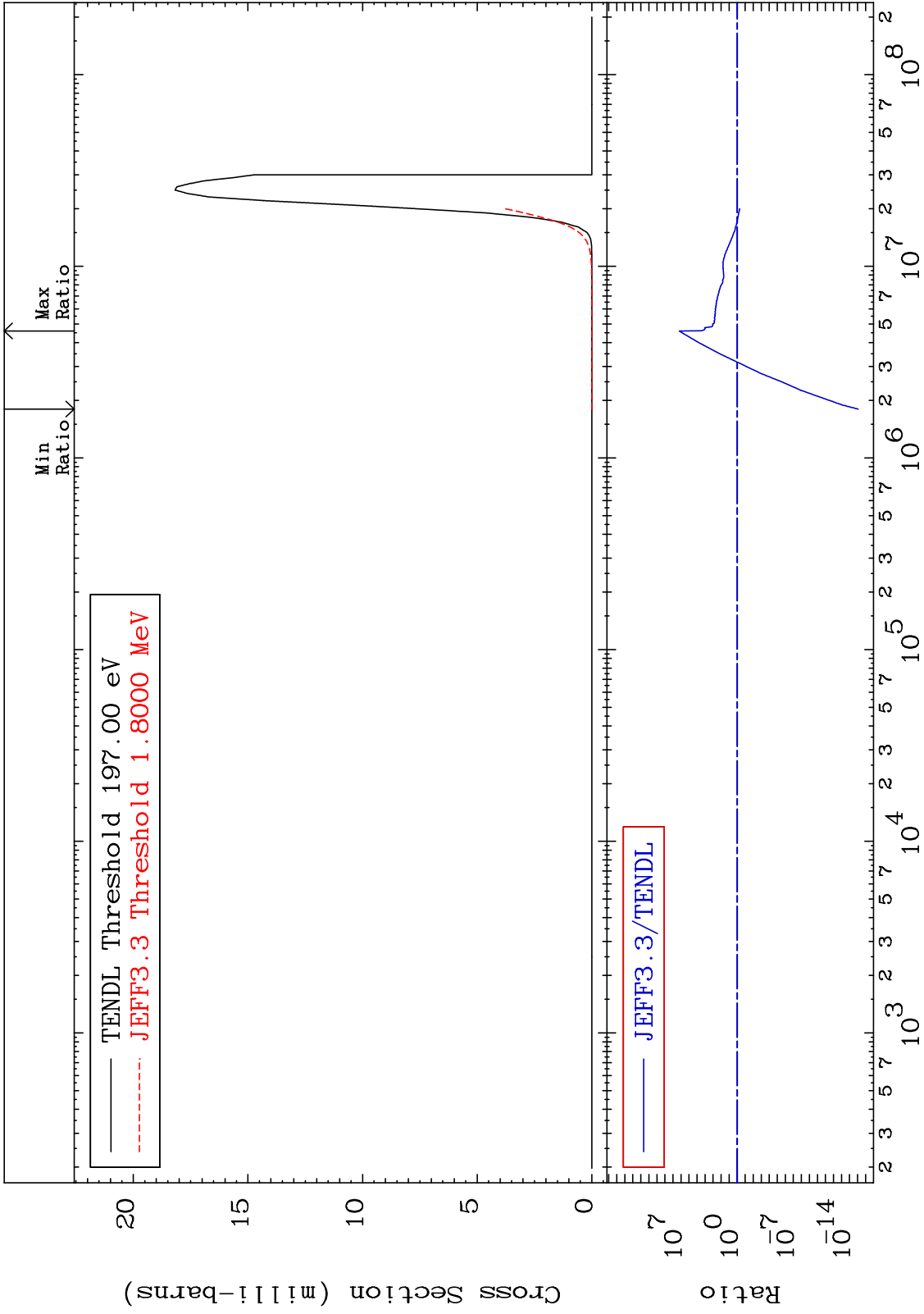
MAT 6331

(n, n') α

63-Eu-153

Cross Section

-100.0 To 9999. %



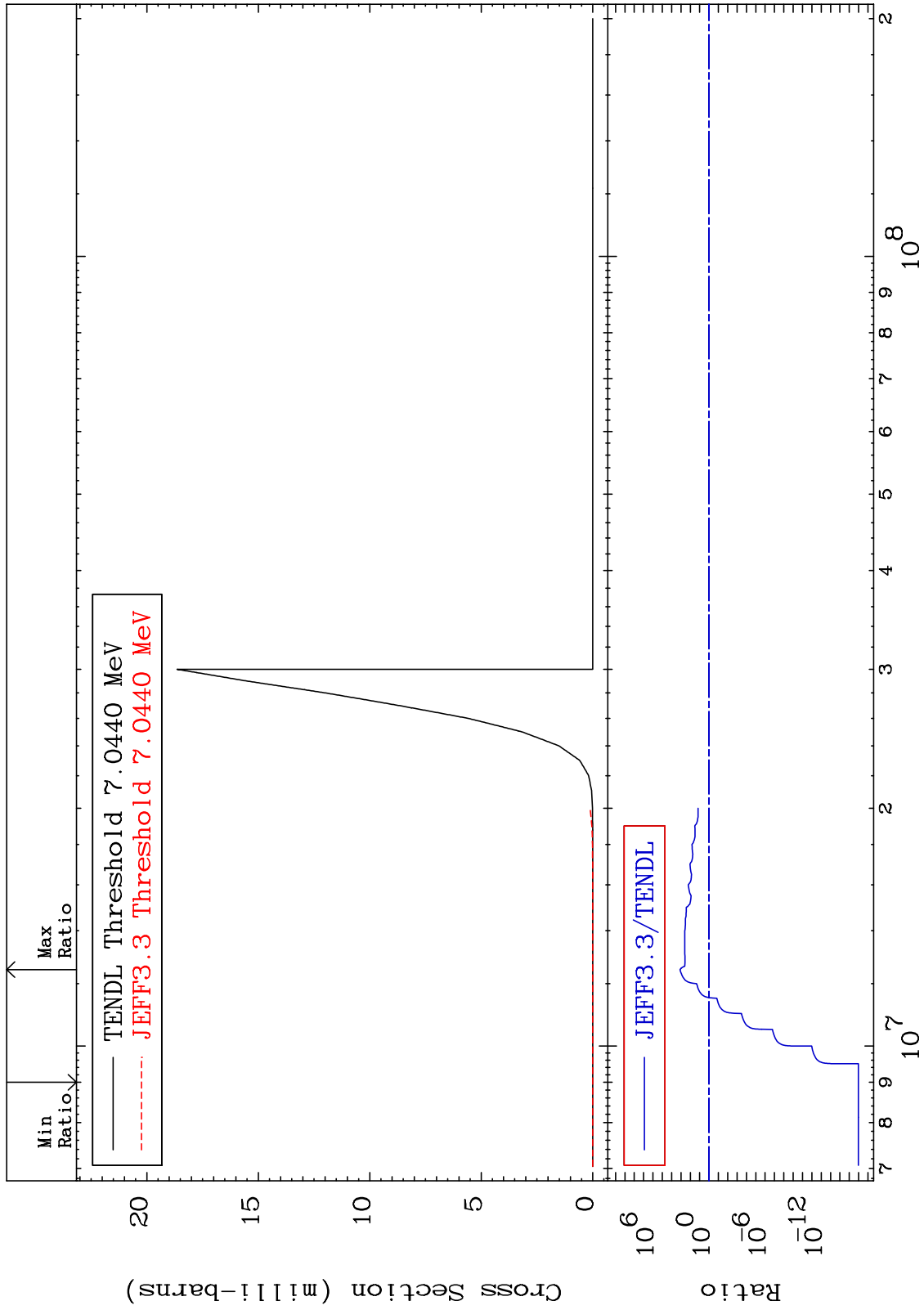
MAT 6331

(n,2n) α

63-Eu-153

Cross Section

-100.0 To 9999. %



7

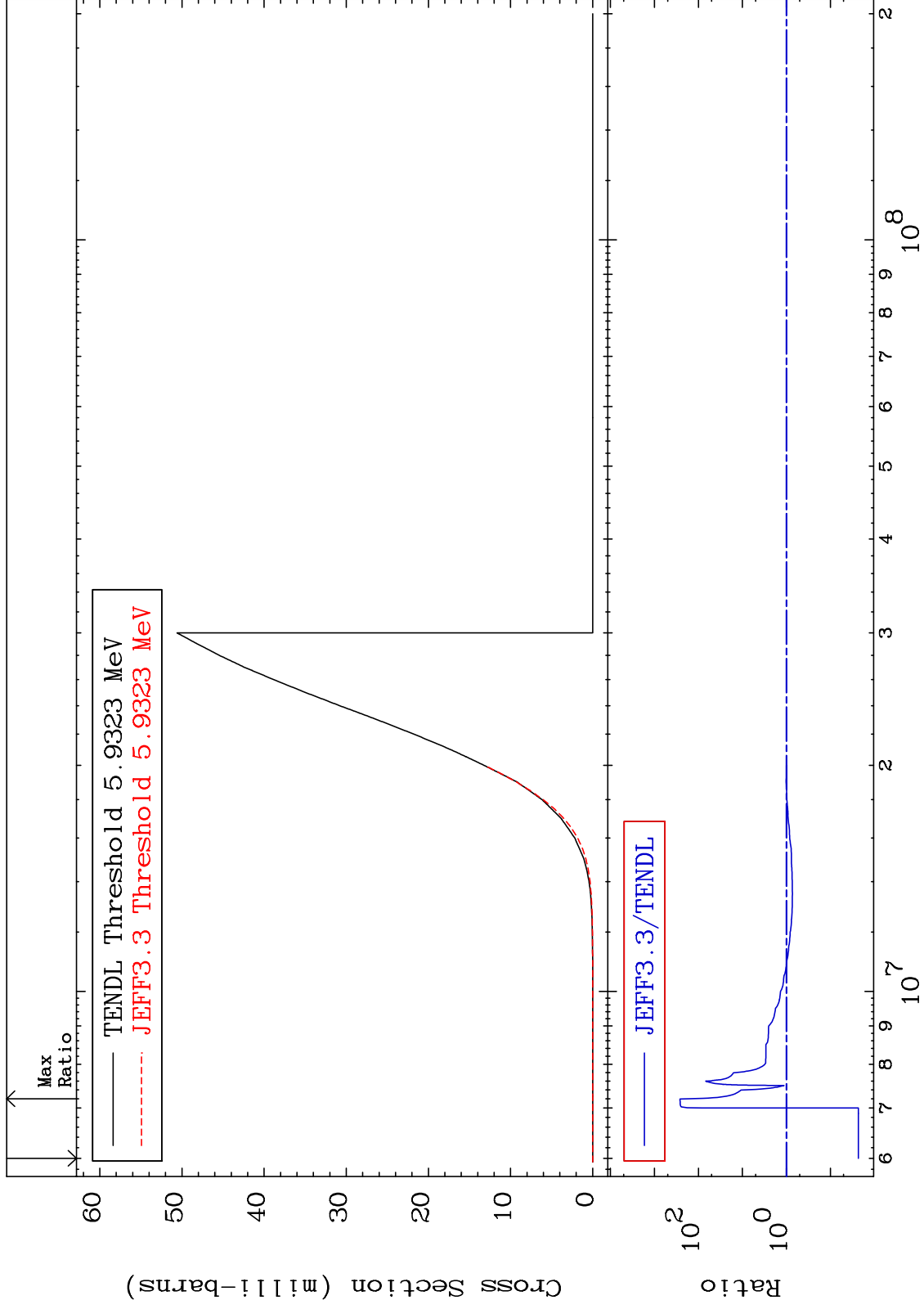
Incident Energy (eV)

63-Eu-153

MAT 6331

(n,n') p
Cross Section

63-Eu-153
-97.70 To 9999. %



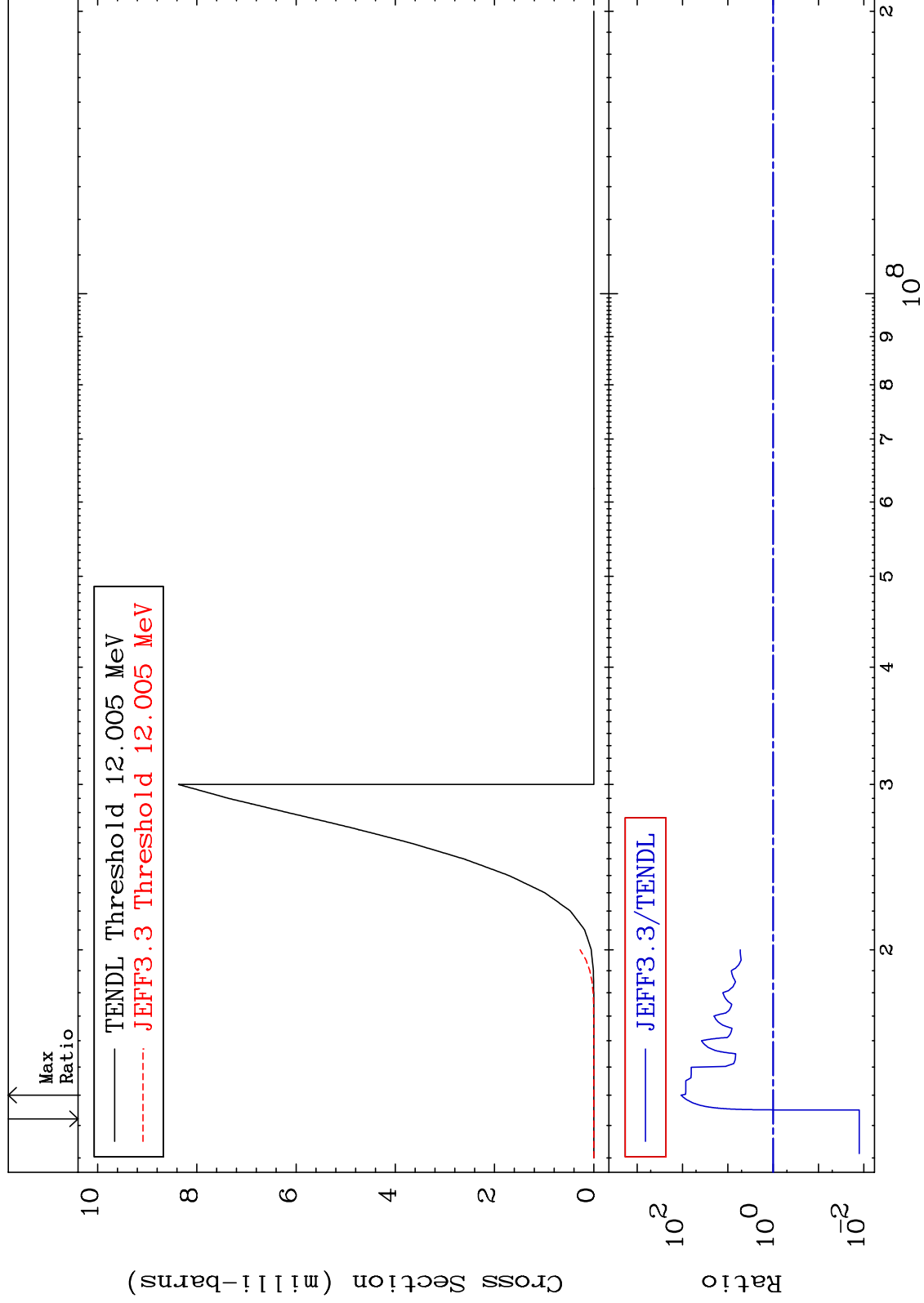
MAT 6331

(n, n') d

63-Eu-153

Cross Section

-98.74 To 9999. %



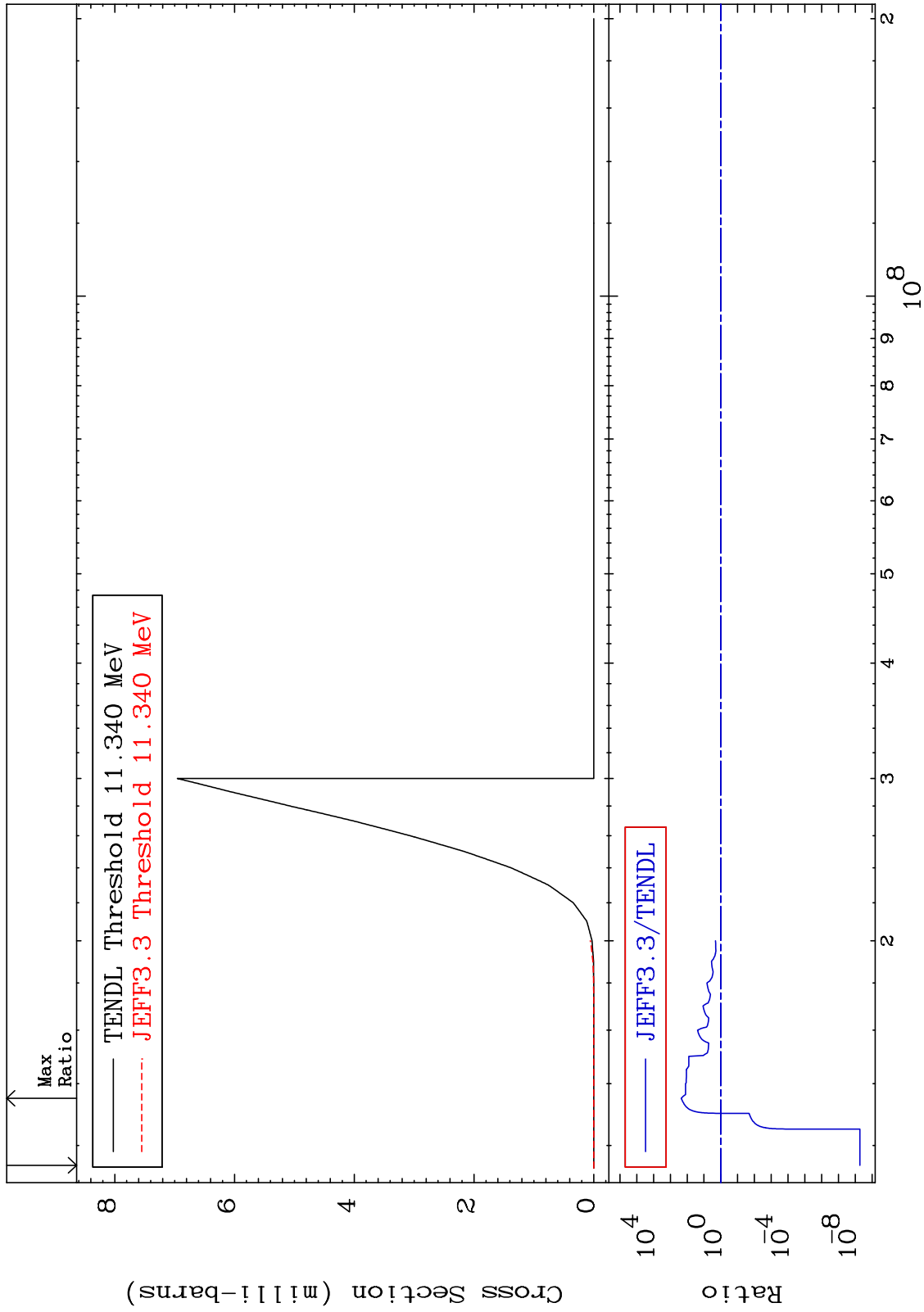
MAT 6331

(n,n') t

63-Eu-153

Cross Section

-100.0 To 9999. %



10

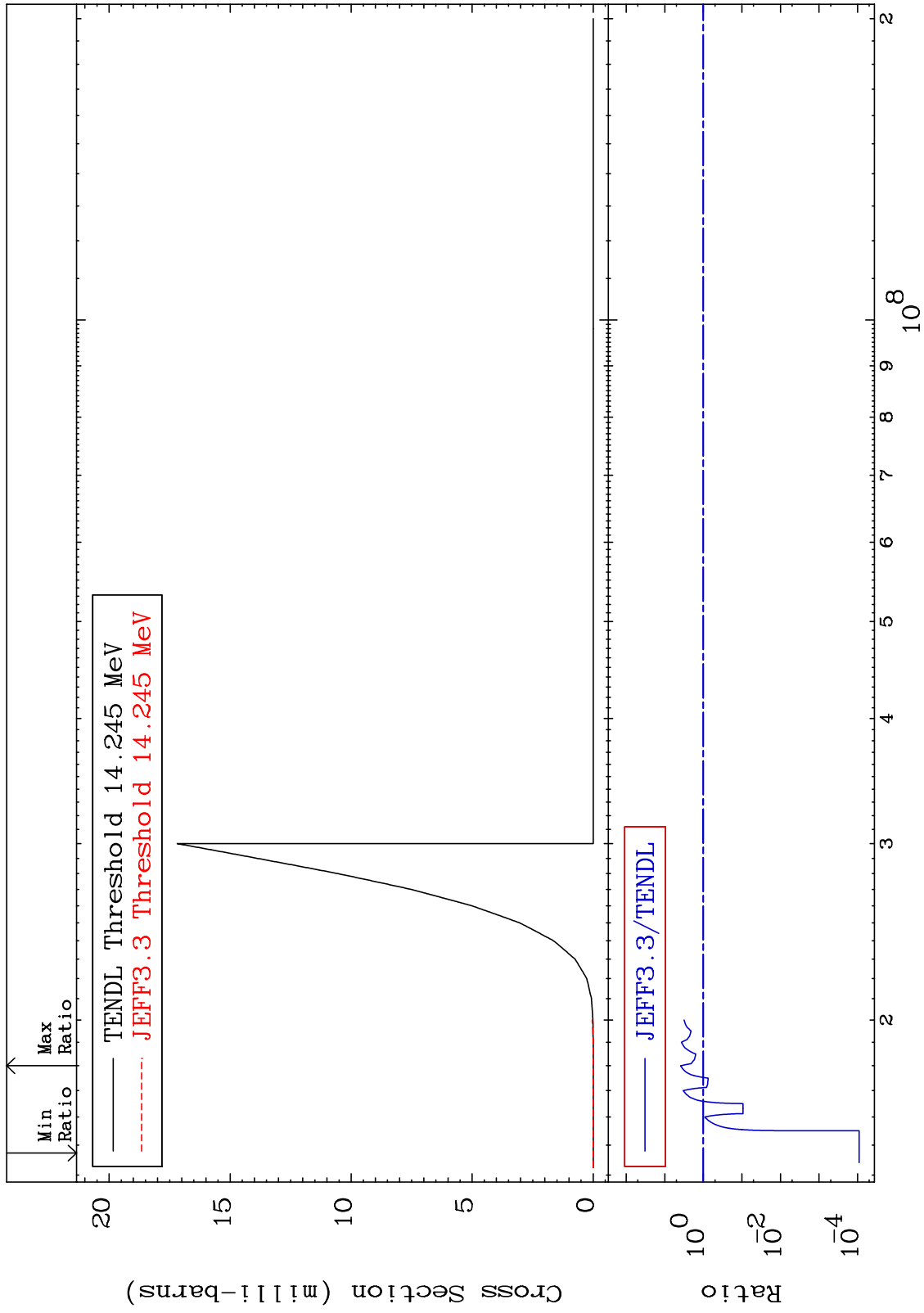
Incident Energy (eV)

63-Eu-153

MAT 6331

(n,2n) p
Cross Section

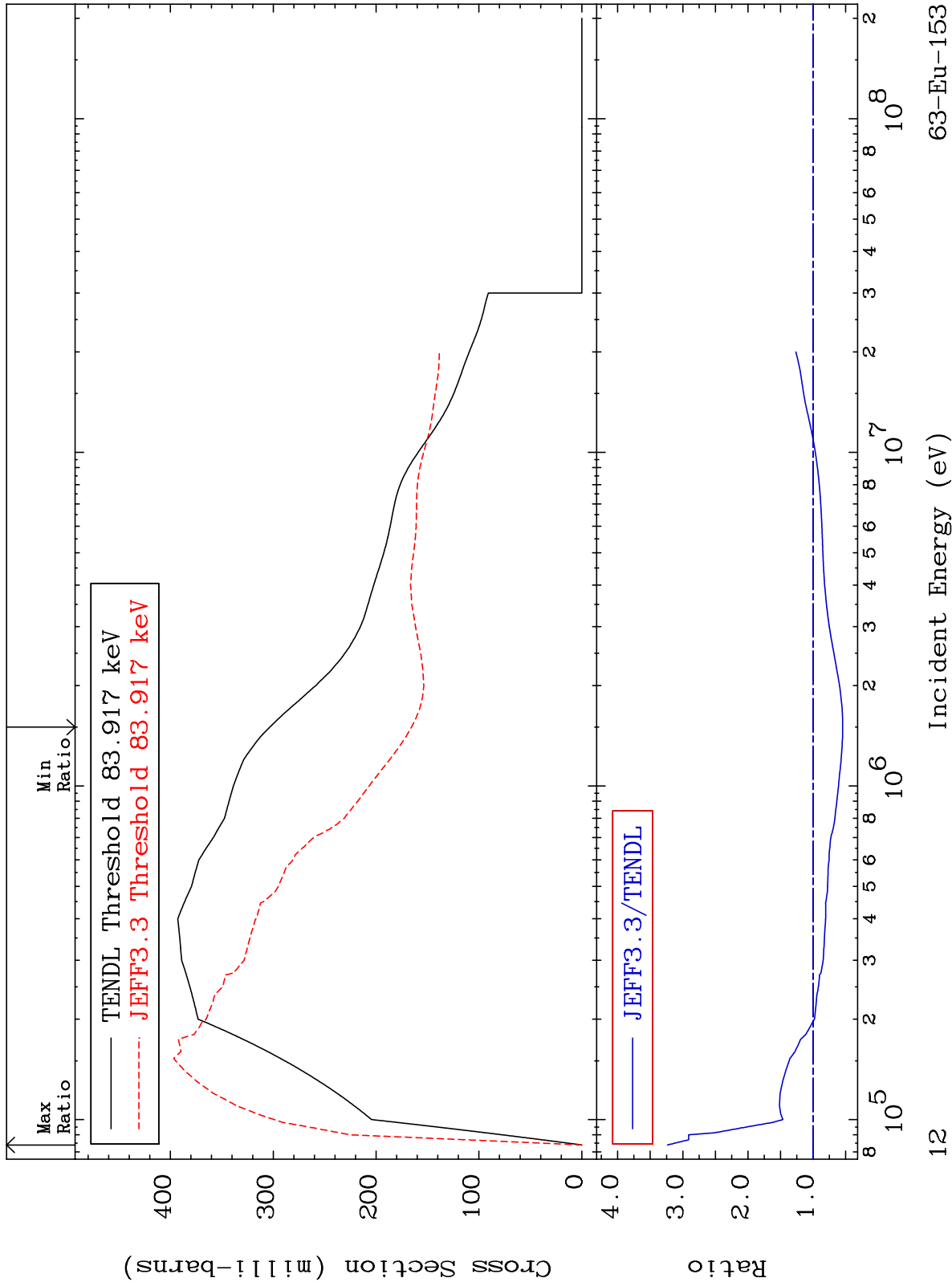
63-Eu-153
-99.99 To 288.5 %



MAT 6331

MT= 51 (n,n') Level
Cross Section

63-Eu-153
-45.44 To 223.4 %



63-Eu-153

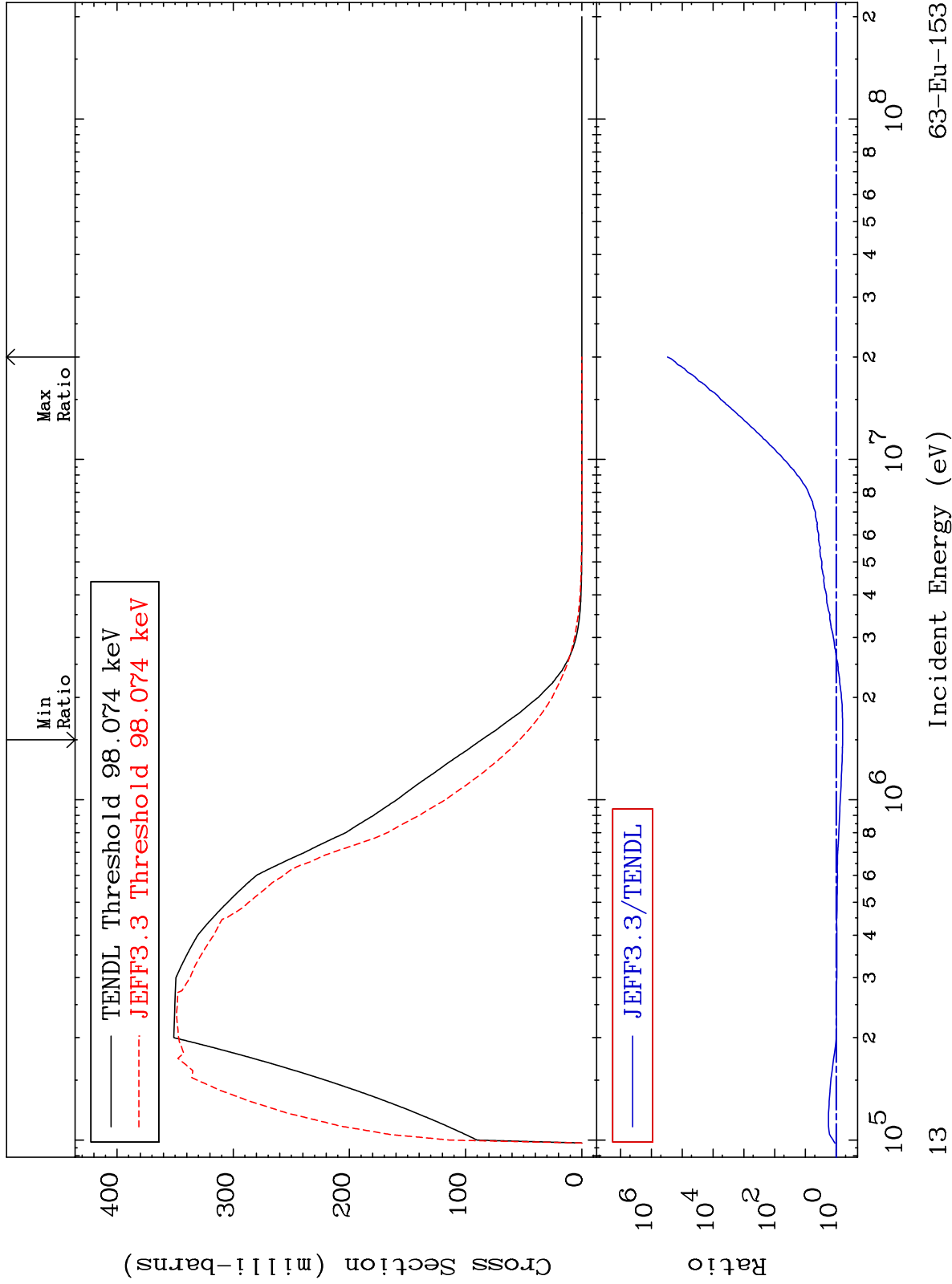
Incident Energy (eV)

12

MAT 6331

MT= 52 (n,n') Level
Cross Section

63-Eu-153
-38.01 To 9999. %



63-Eu-153

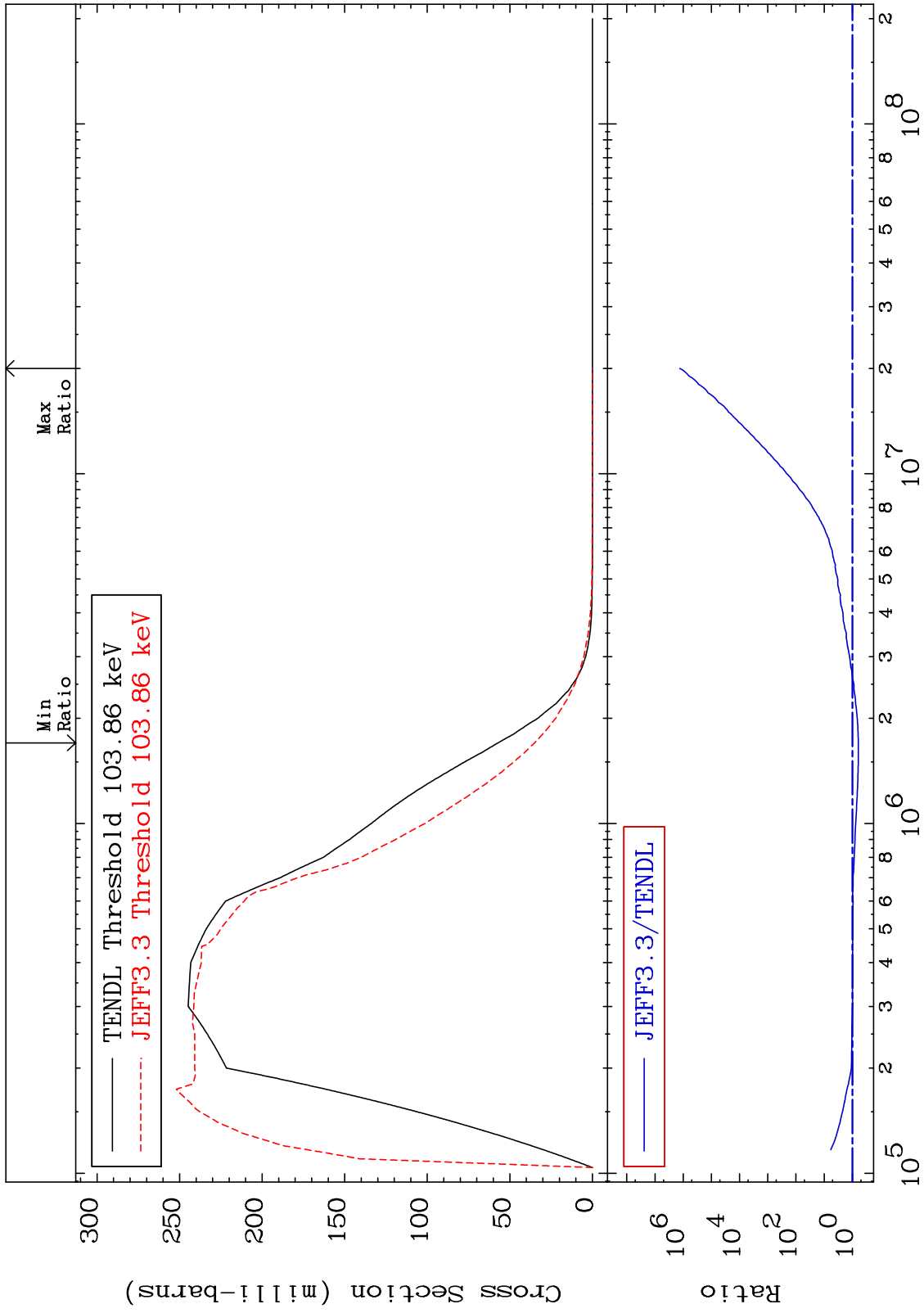
Incident Energy (eV)

13

MAT 6331

MT= 53 (n,n') Level
Cross Section

63-Eu-153
-38.74 To 9999. %



14

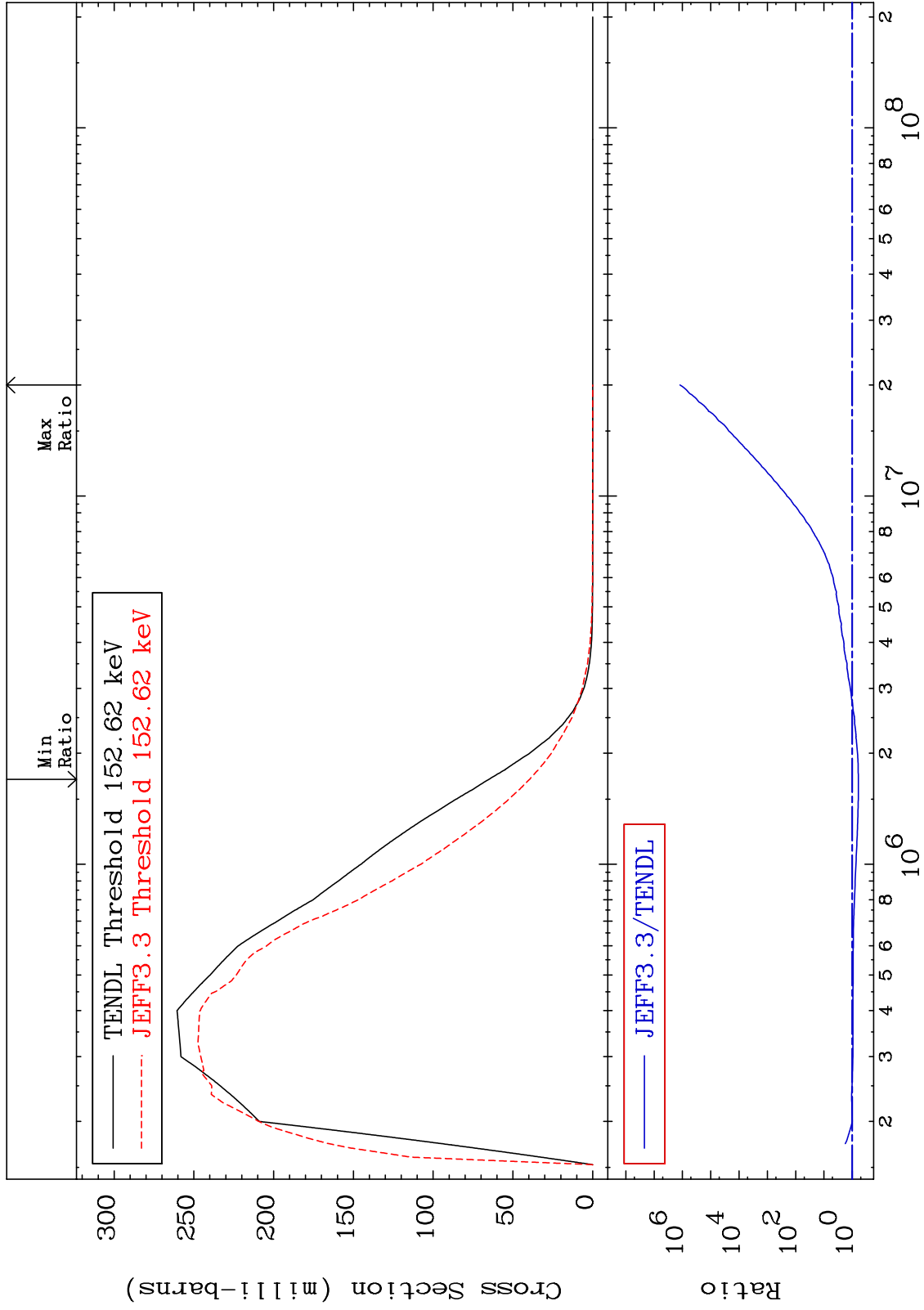
Incident Energy (eV)

63-Eu-153

MAT 6331

MT= 54 (n,n') Level
Cross Section

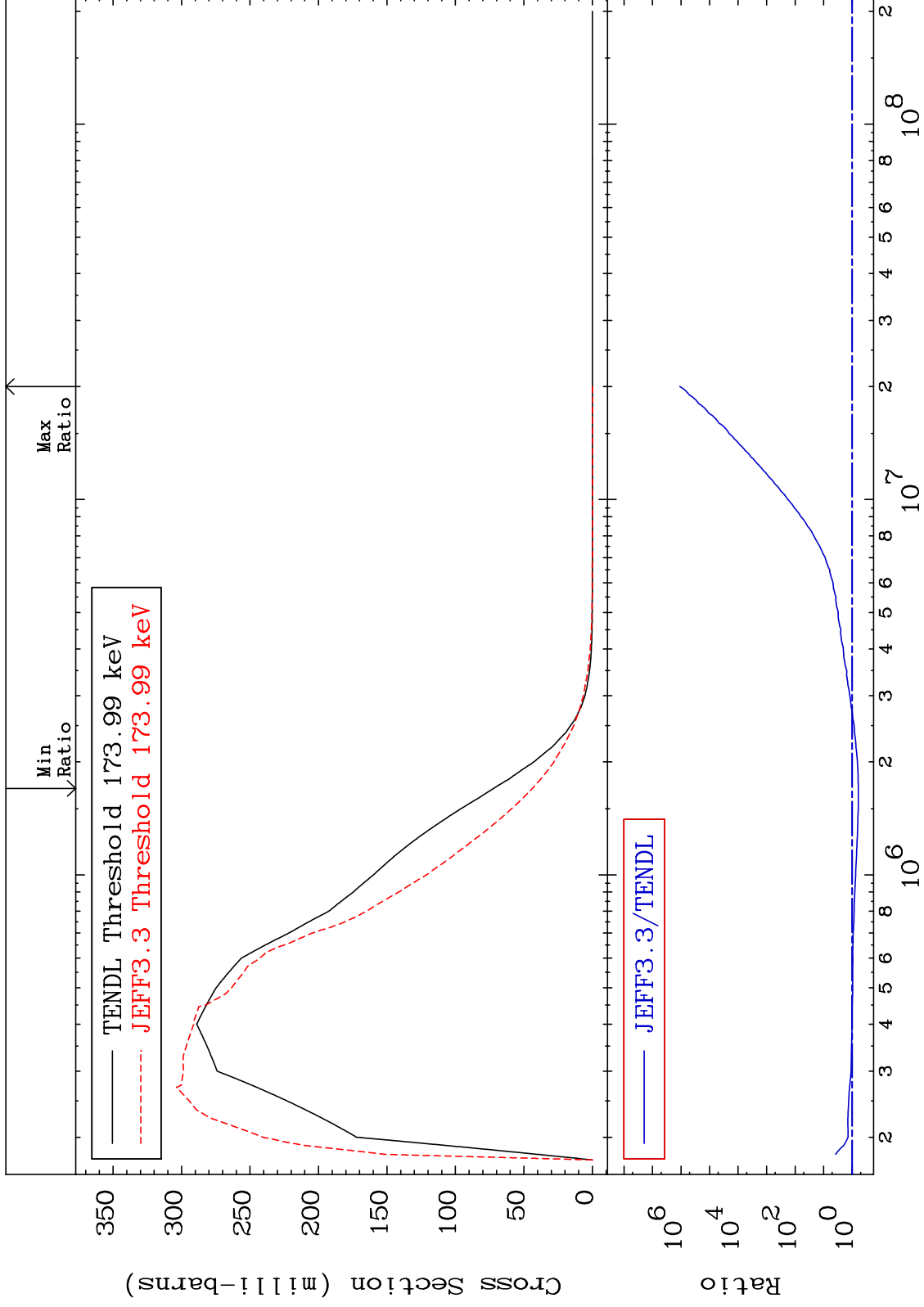
63-Eu-153
-39.21 To 9999. %



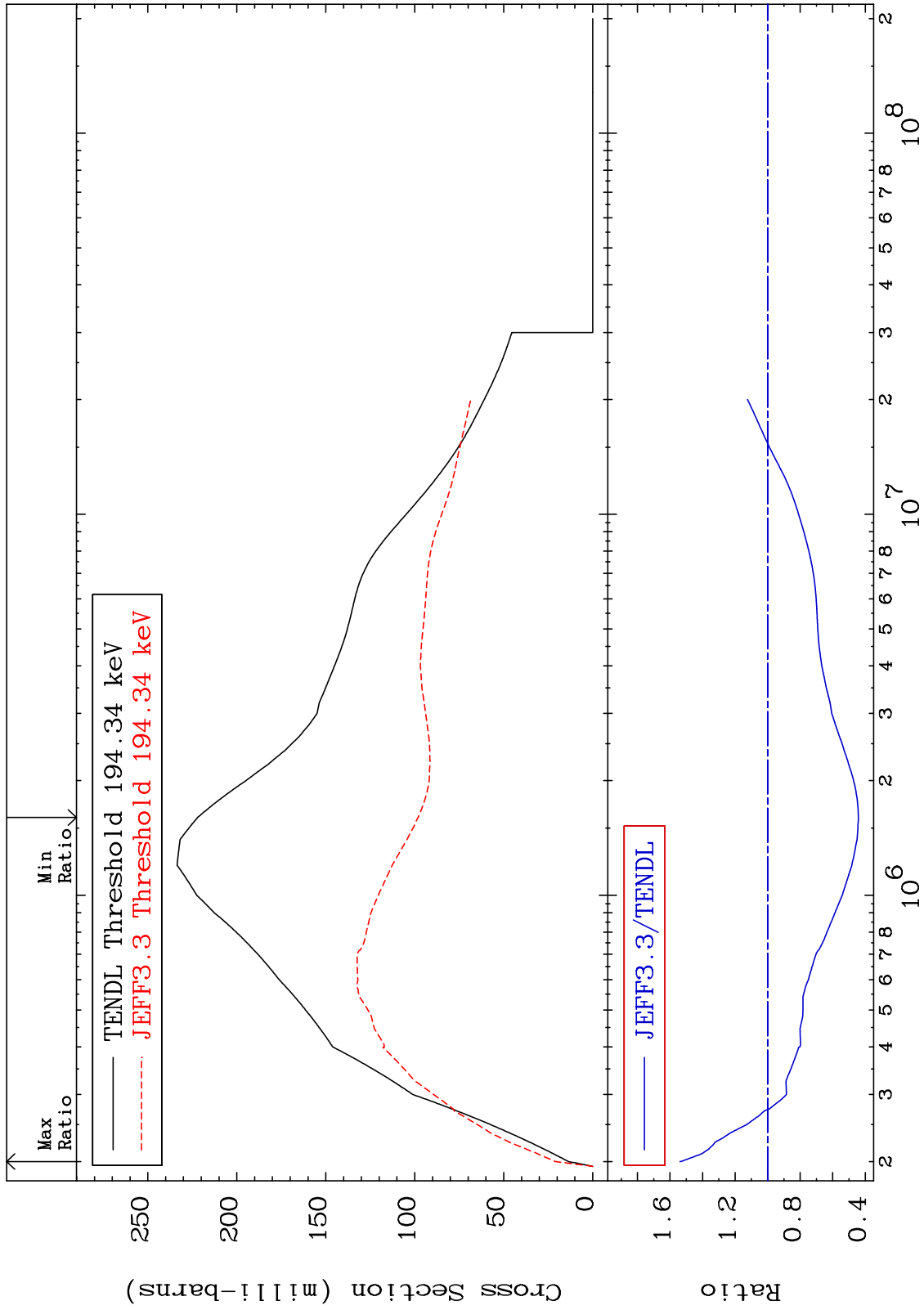
MAT 6331

MT= 55 (n,n') Level
Cross Section

63-Eu-153
-39.38 To 9999. %



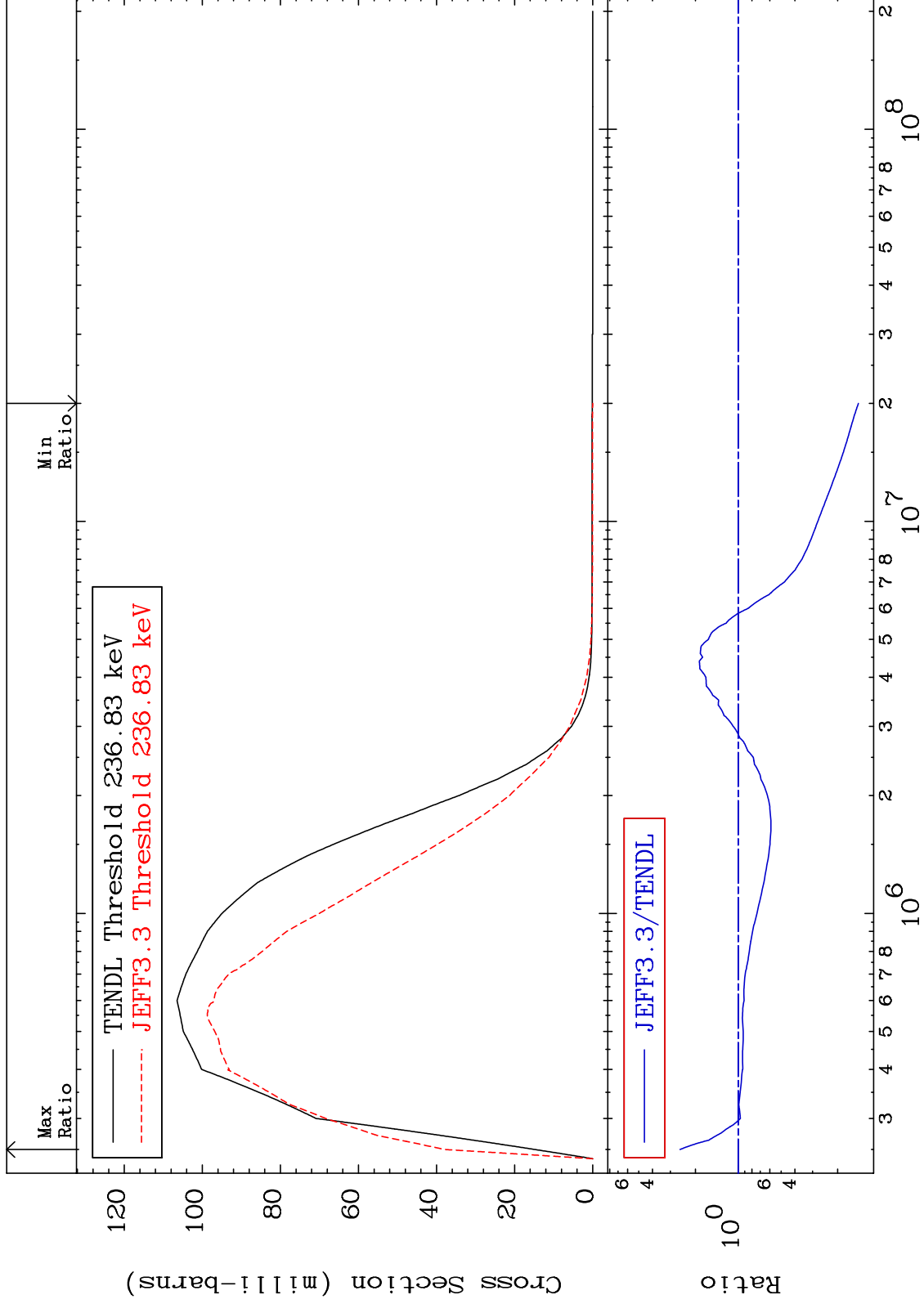
MAT 6331 MT= 56 (n,n') Level 63-Eu-153
 Cross Section -55.80 To 53.85 %



MAT 6331

MT= 57 (n,n') Level
Cross Section

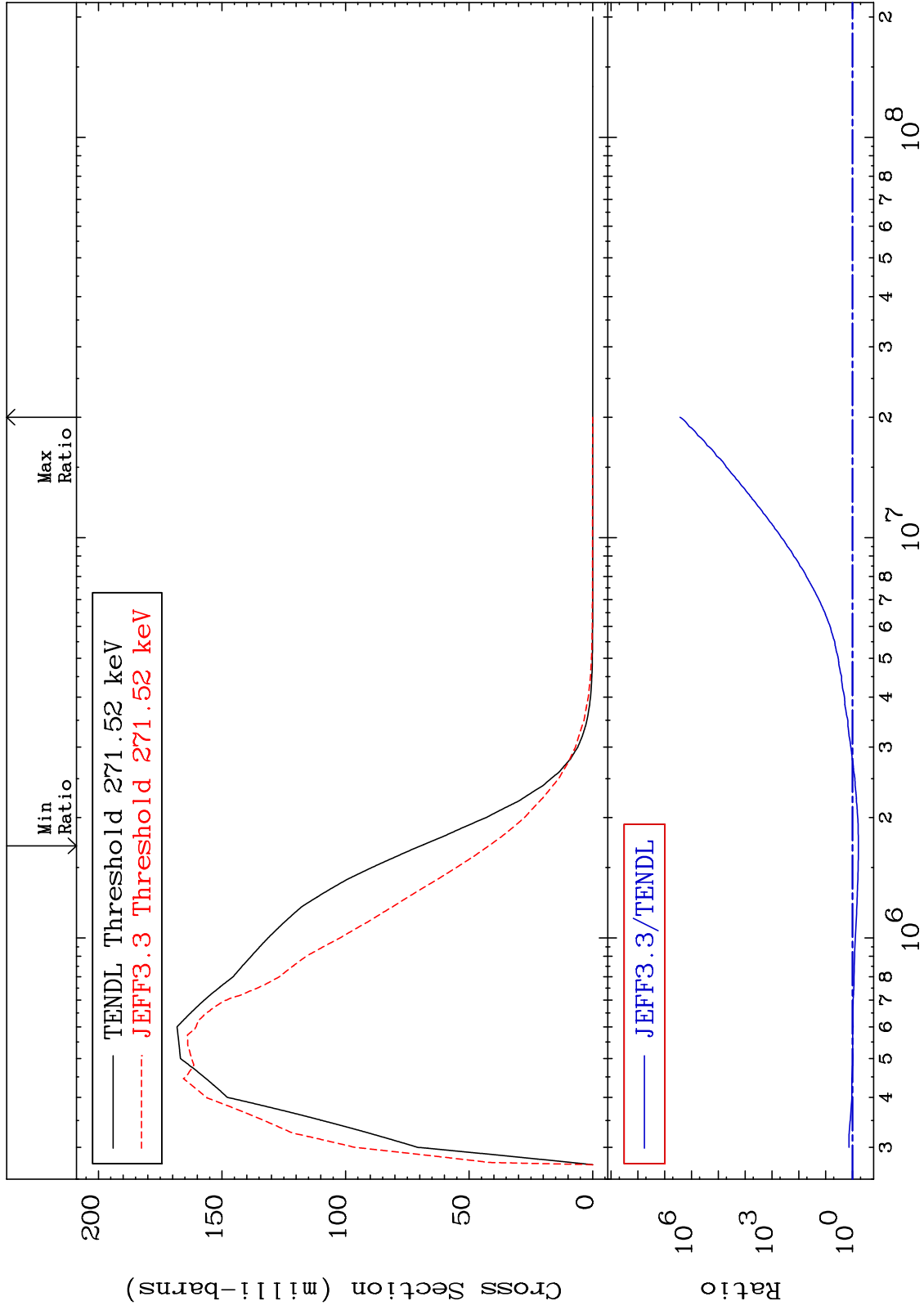
63-Eu-153
-85.70 To 156.5 %



MAT 6331

MT= 58 (n, n') Level
Cross Section

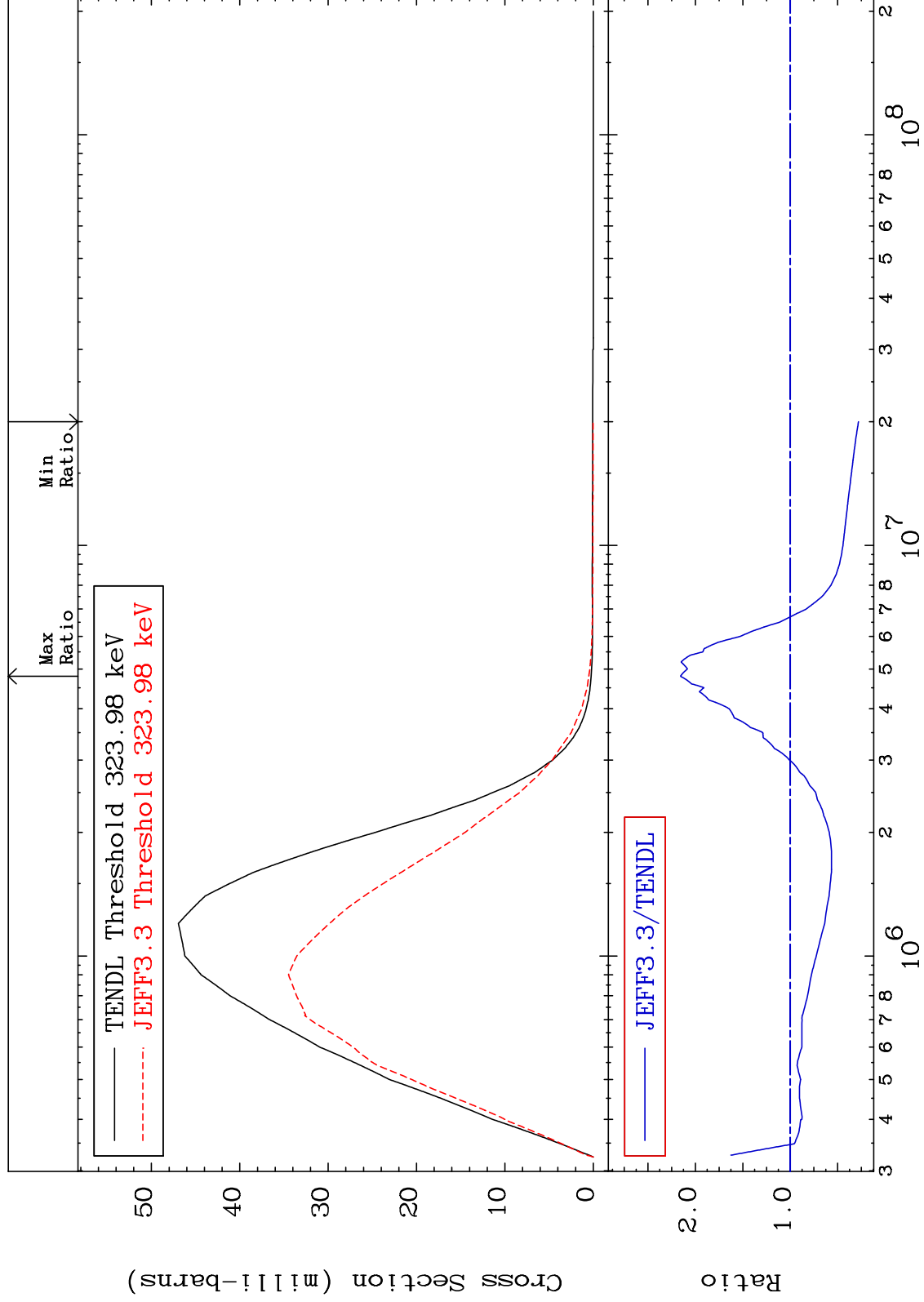
63-Eu-153
-39.78 To 9999. %



MAT 6331

MT= 59 (n,n') Level
Cross Section

63-Eu-153
-72.02 To 115.7 %



20

Incident Energy (eV)

63-Eu-153

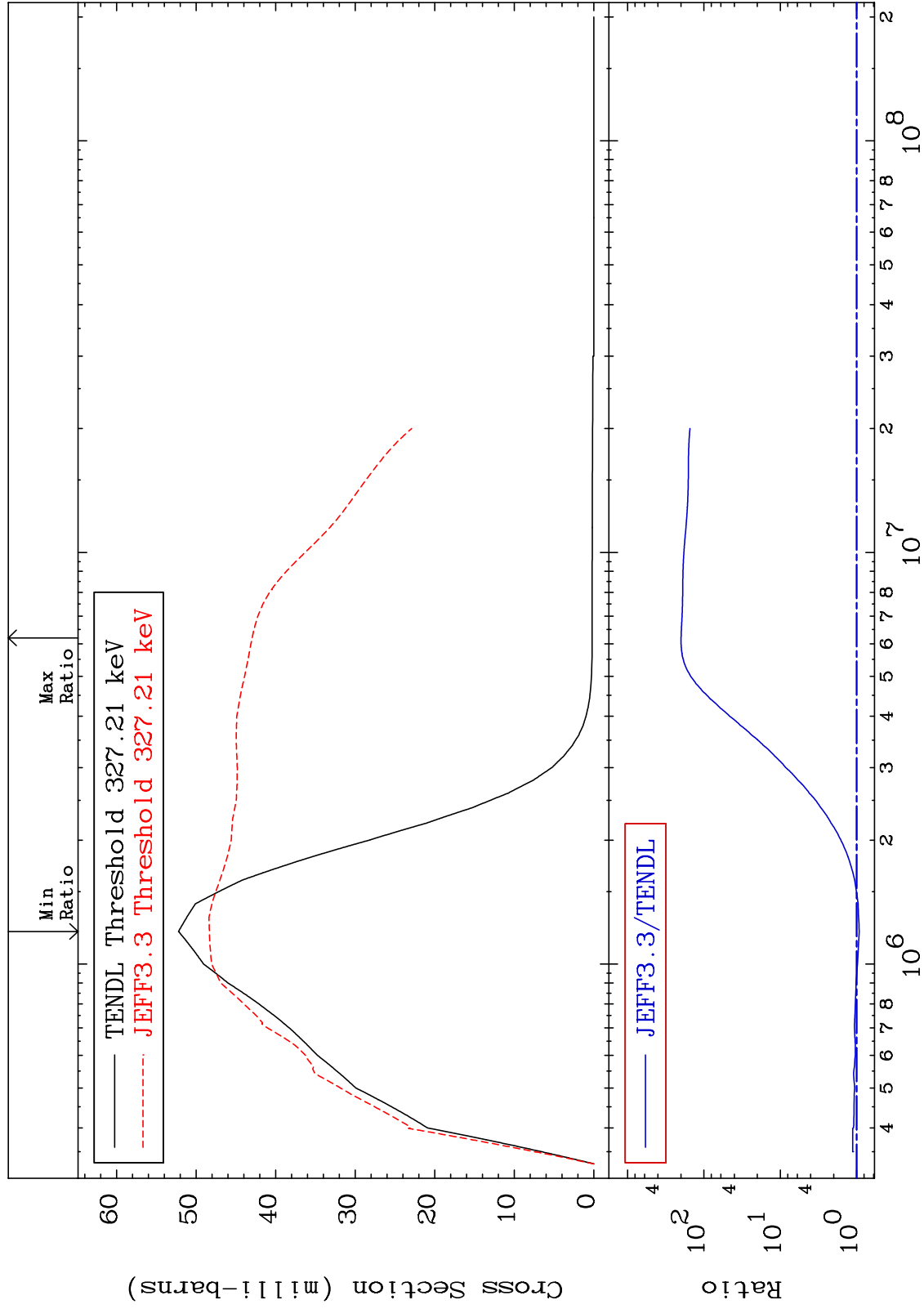
MAT 6331

MT= 60 (n,n') Level

63-Eu-153

-7.426 To 9999. %

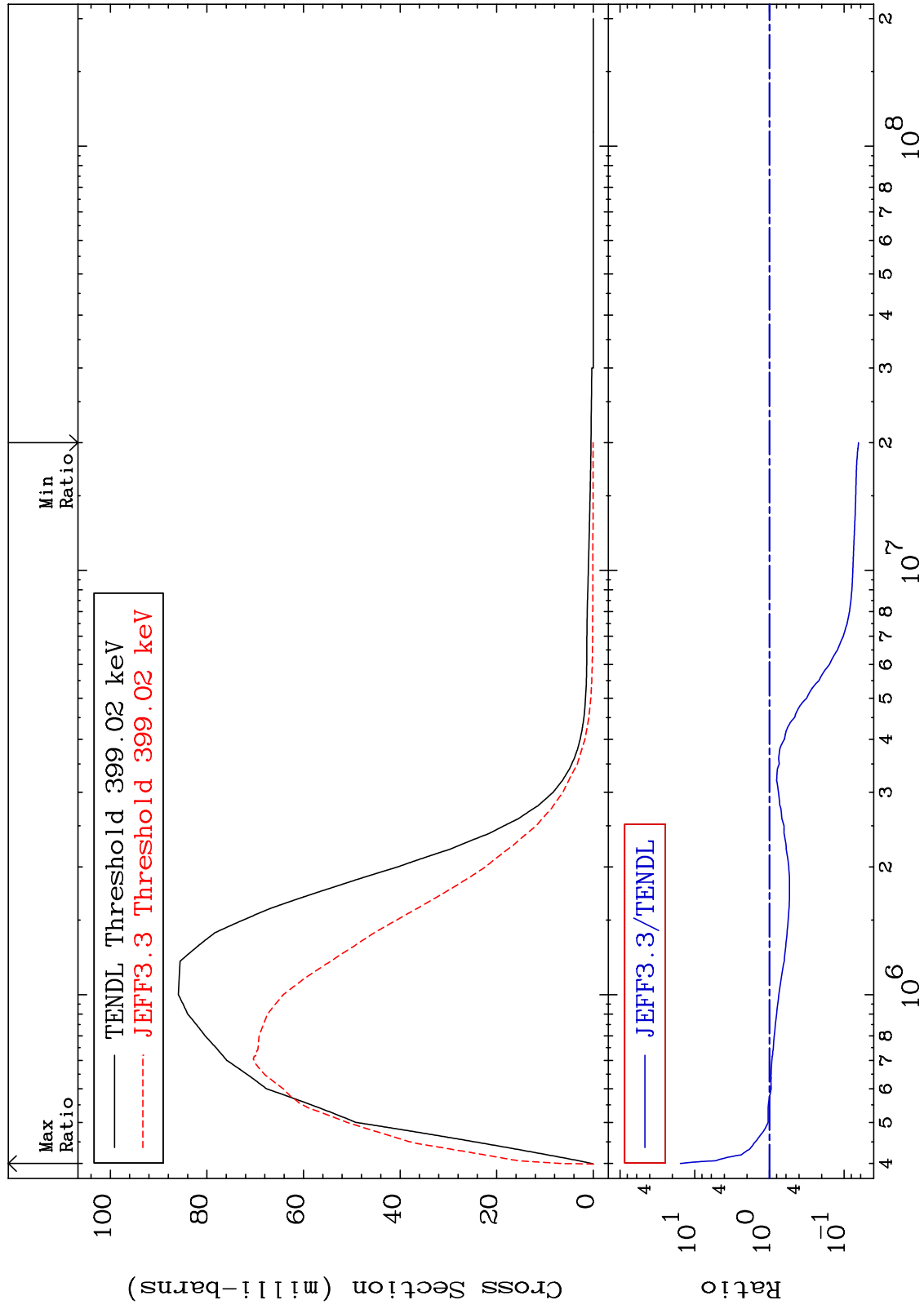
Cross Section



MAT 6331

MT= 61 (n,n') Level
Cross Section

63-Eu-153
-93.59 To 1453. %



Incident Energy (eV)

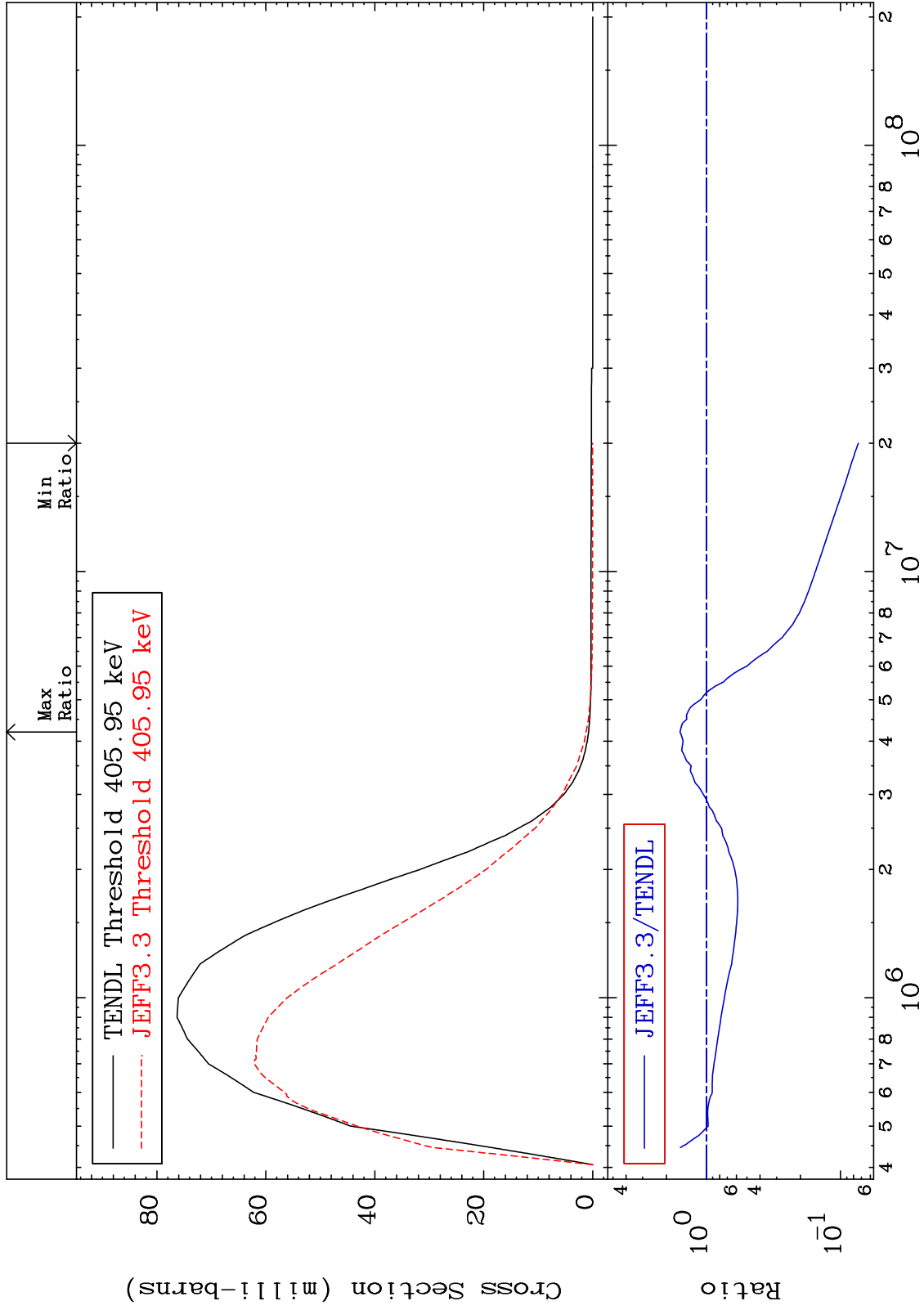
63-Eu-153

22

MAT 6331

MT= 62 (n,n') Level
Cross Section

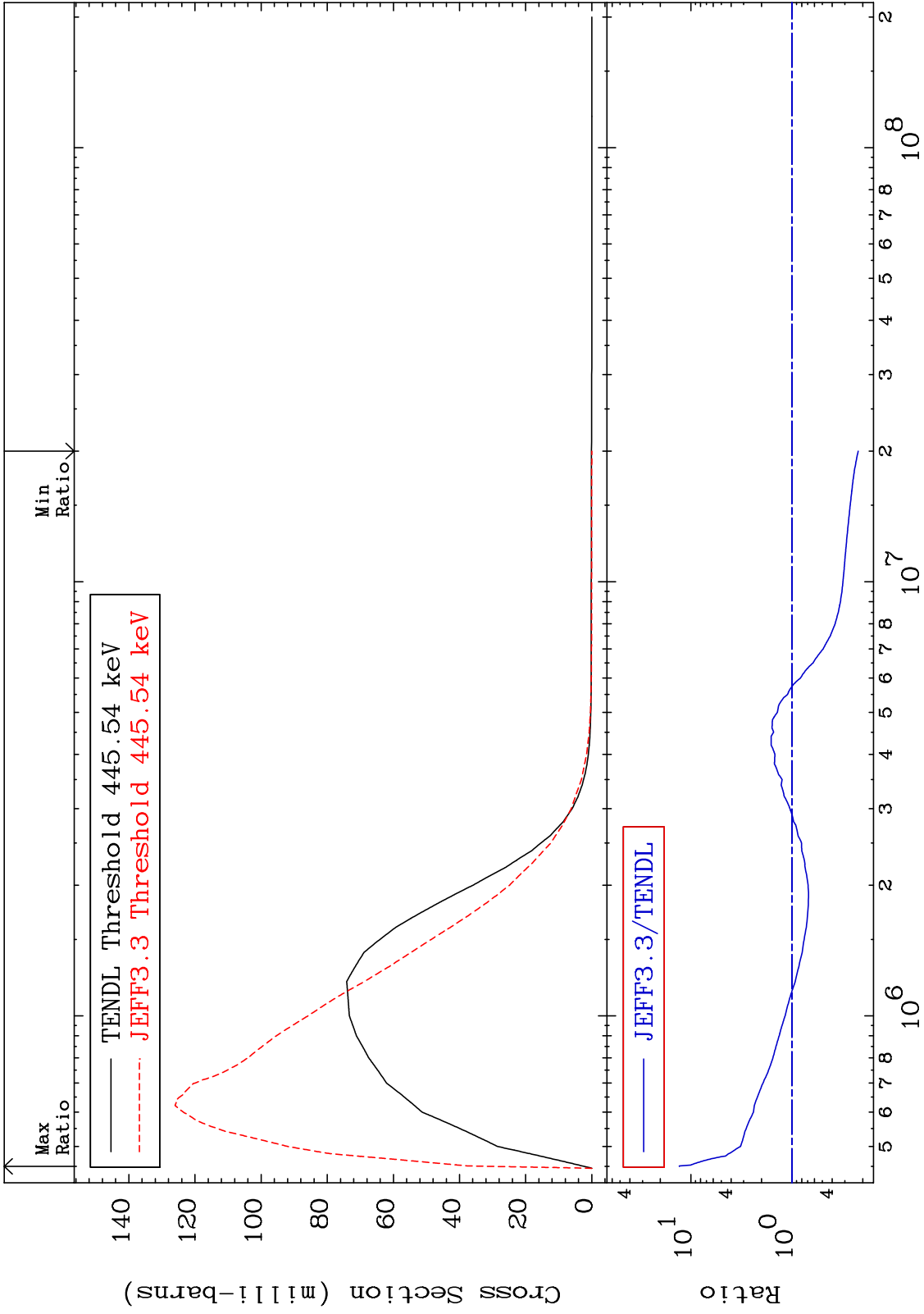
63-Eu-153
-92.64 To 58.04 %



MAT 6331

MT= 63 (n,n') Level
Cross Section

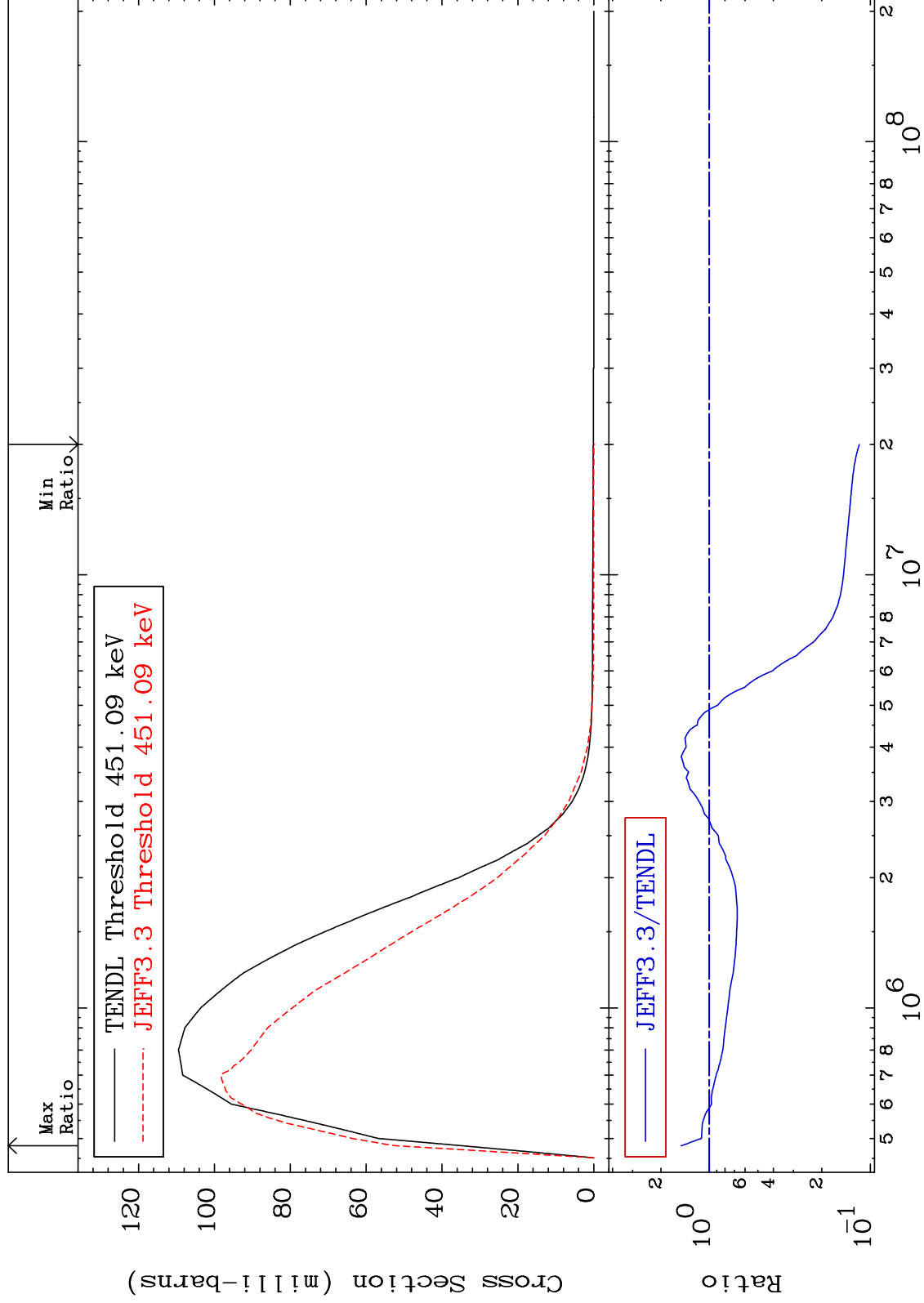
63-Eu-153
-77.86 To 1197. %



MAT 6331

MT= 64 (n,n') Level
Cross Section

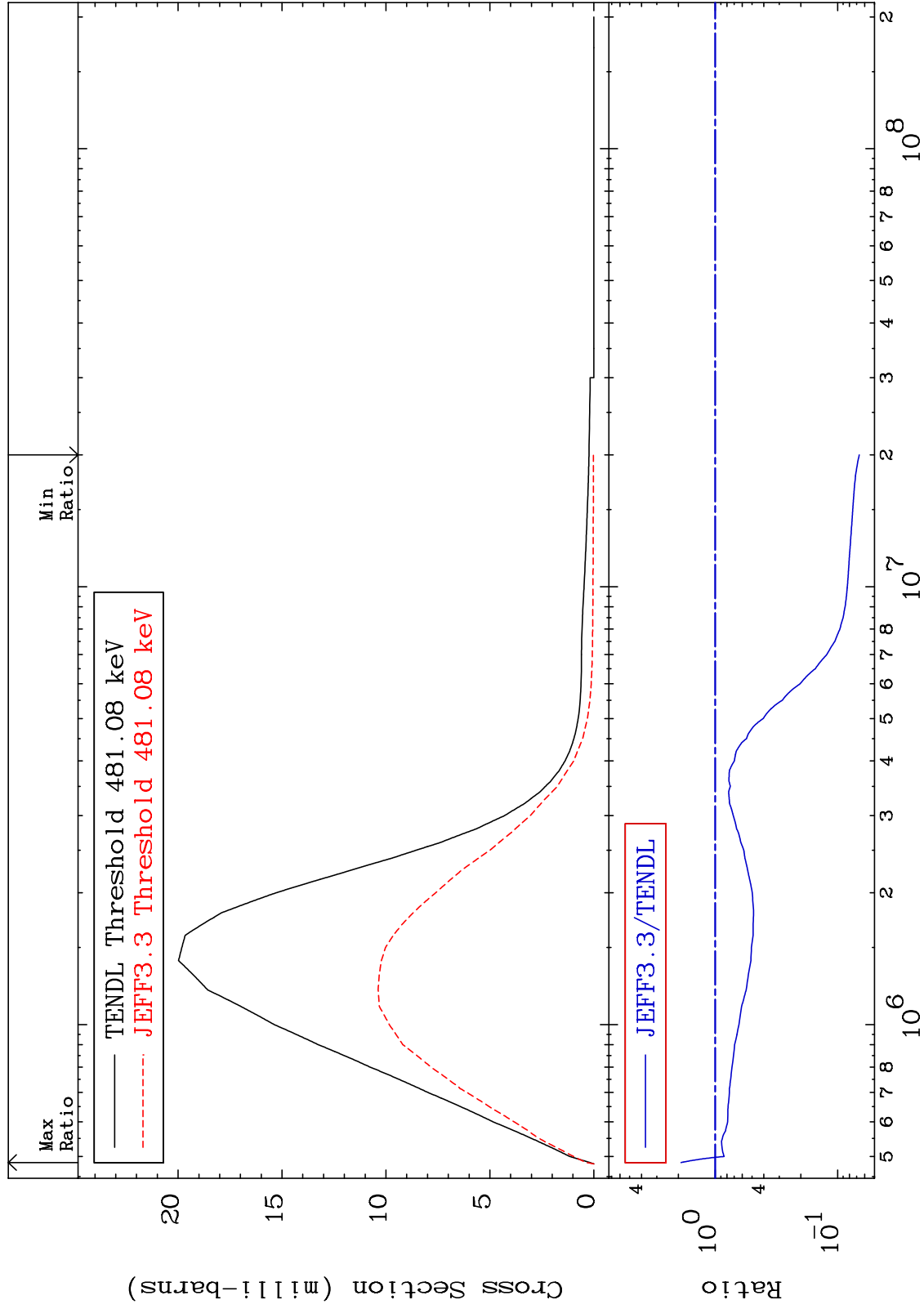
63-Eu-153
-88.30 To 50.04 %



MAT 6331

MT= 65 (n,n') Level
Cross Section

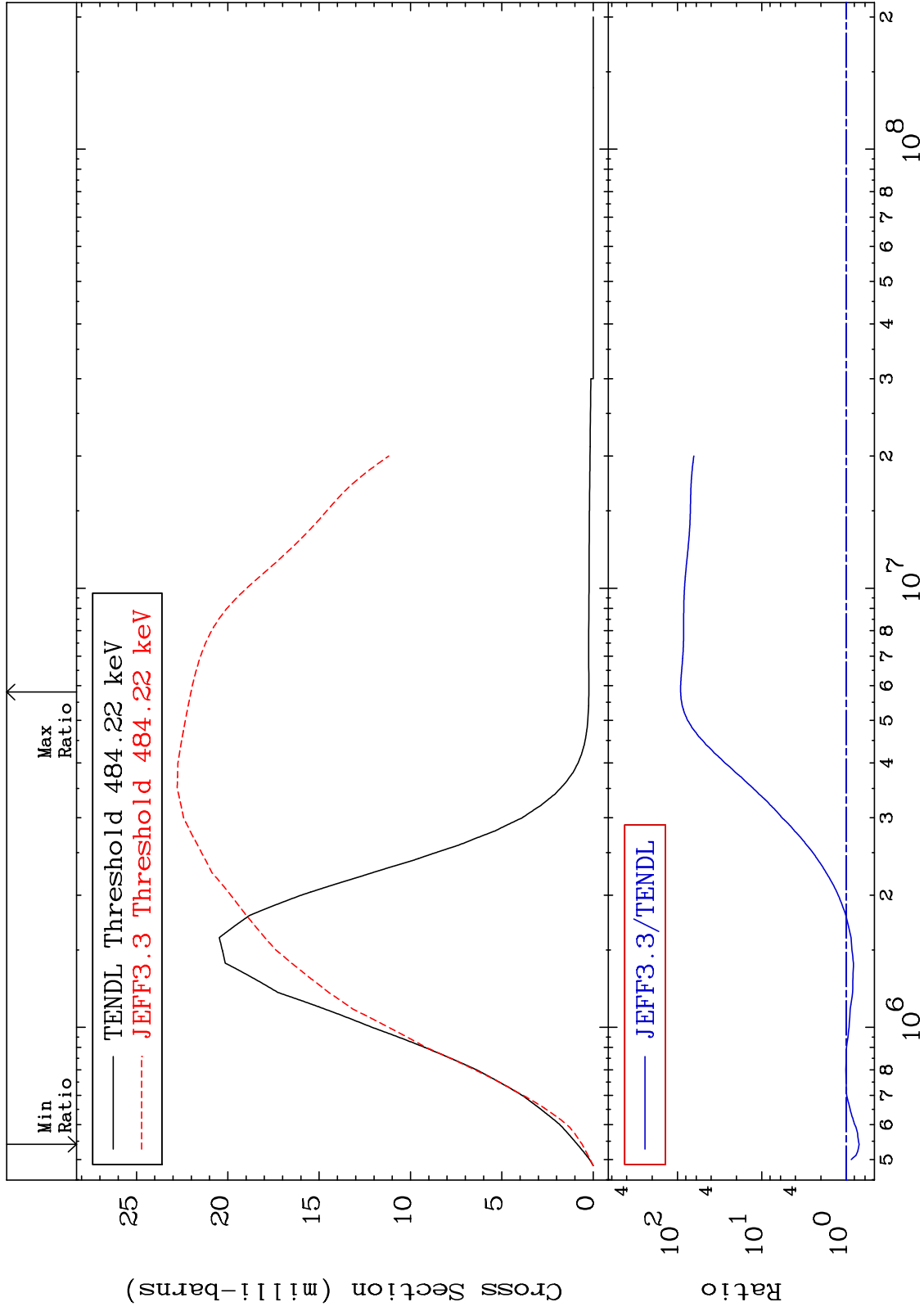
63-Eu-153
-93.35 To 89.92 %



MAT 6331

MT= 66 (n,n') Level
Cross Section

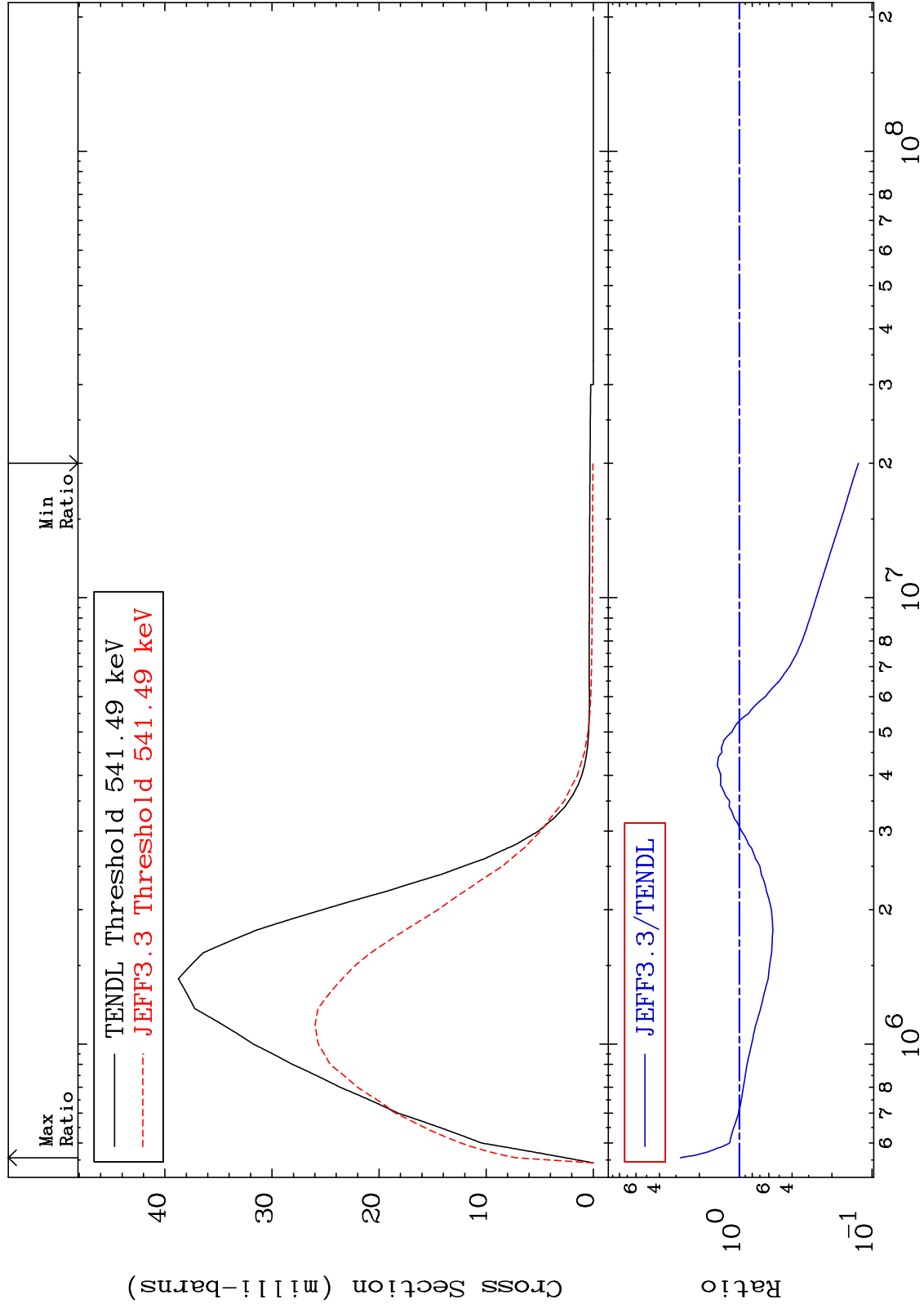
63-Eu-153
-29.79 To 9088. %



MAT 6331

MT= 67 (n,n') Level
Cross Section

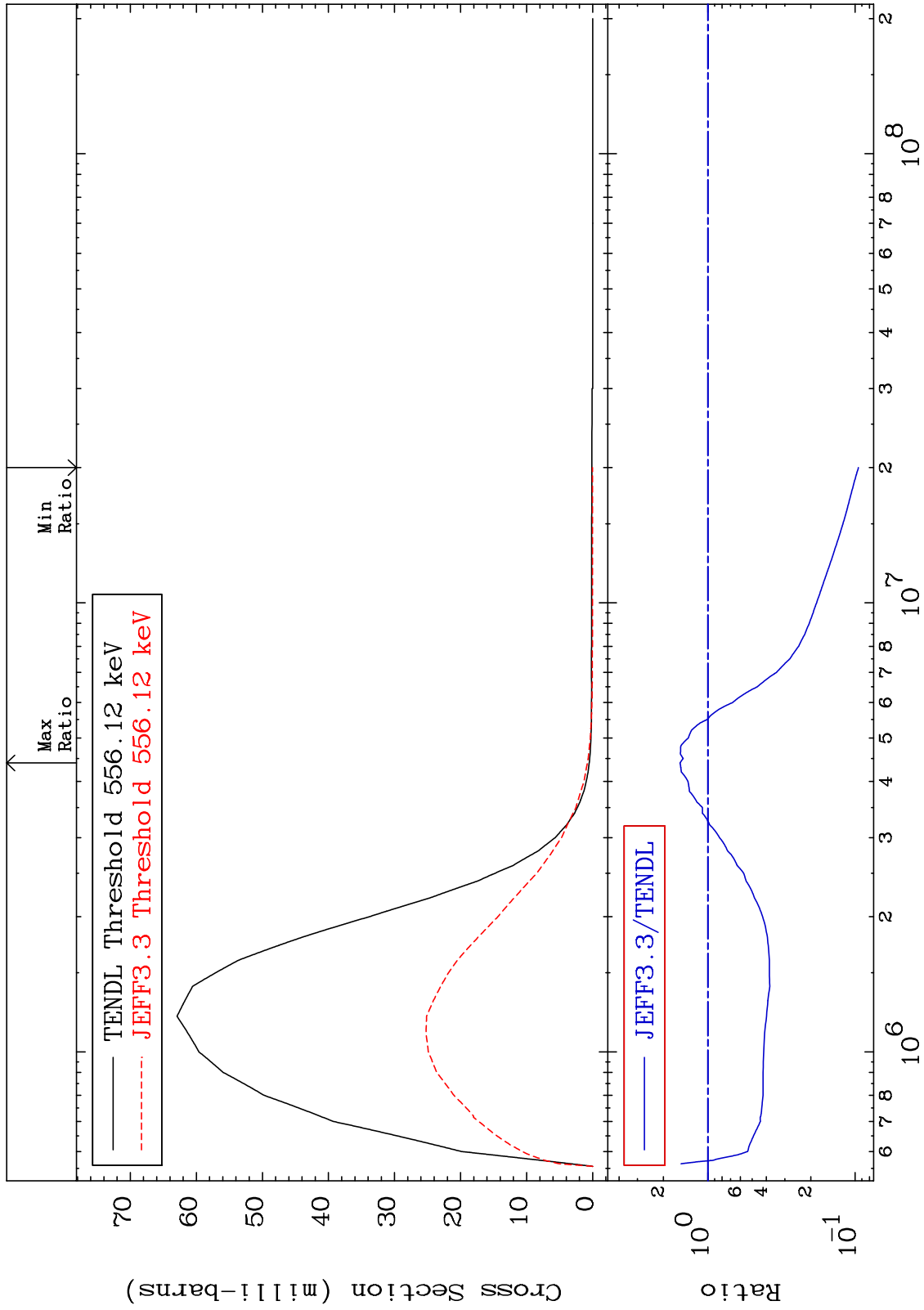
63-Eu-153
-87.38 To 177.7 %



MAT 6331

MT= 68 (n,n') Level
Cross Section

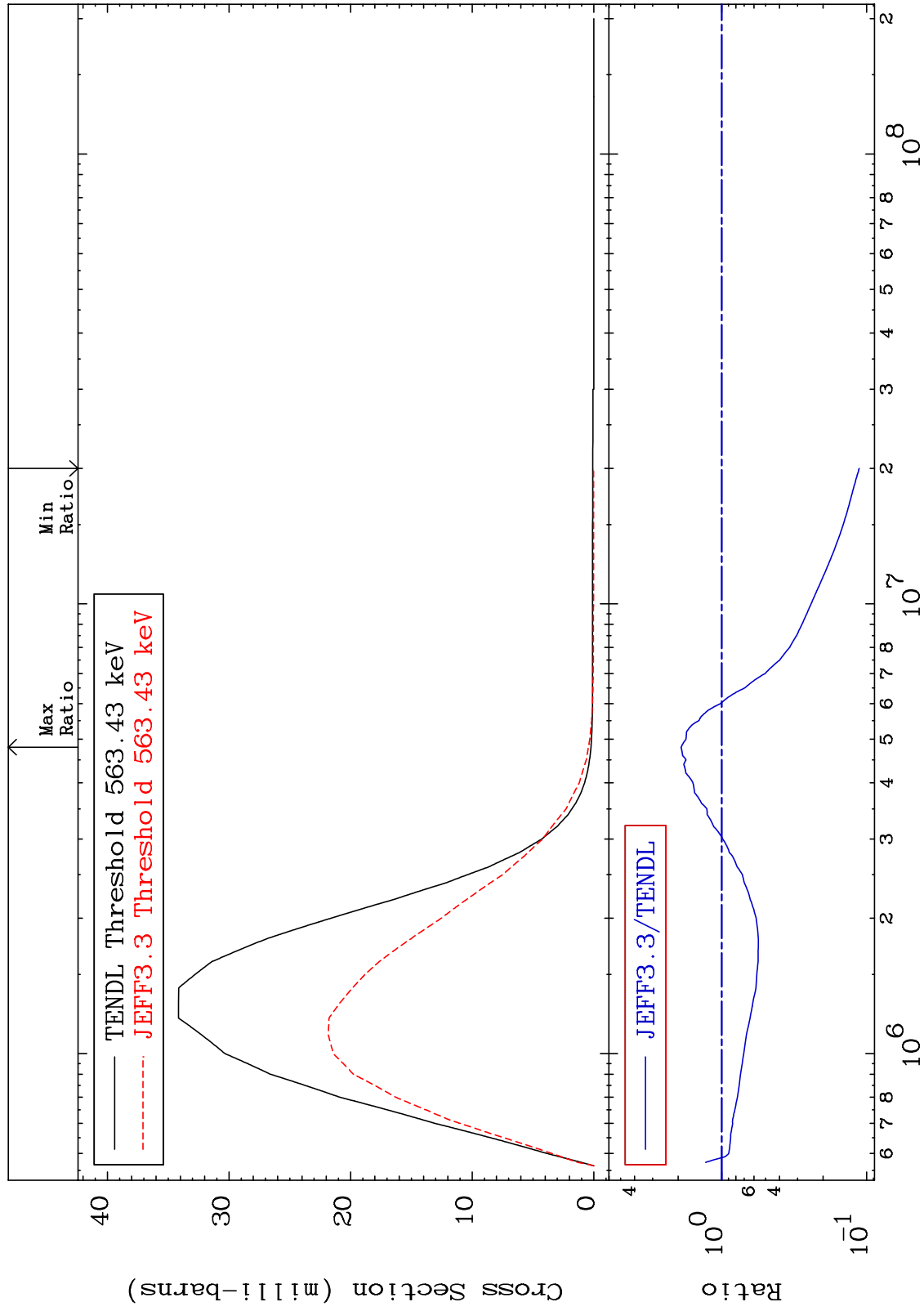
63-Eu-153
-90.50 To 54.34 %



MAT 6331

MT= 69 (n,n') Level
Cross Section

63-Eu-153
-88.74 To 91.12 %



30

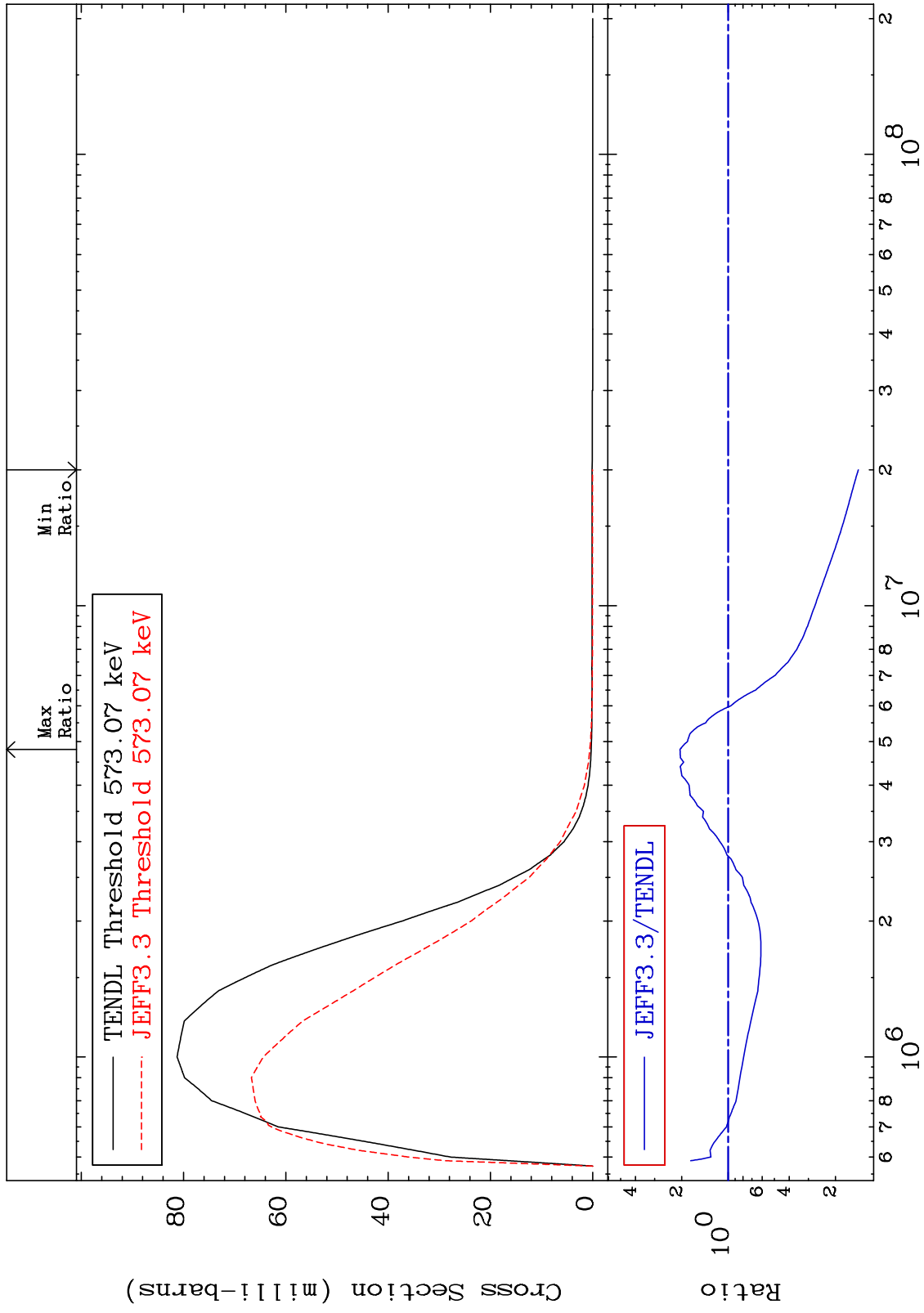
Incident Energy (eV)

63-Eu-153

MAT 6331

MT= 70 (n,n') Level
Cross Section

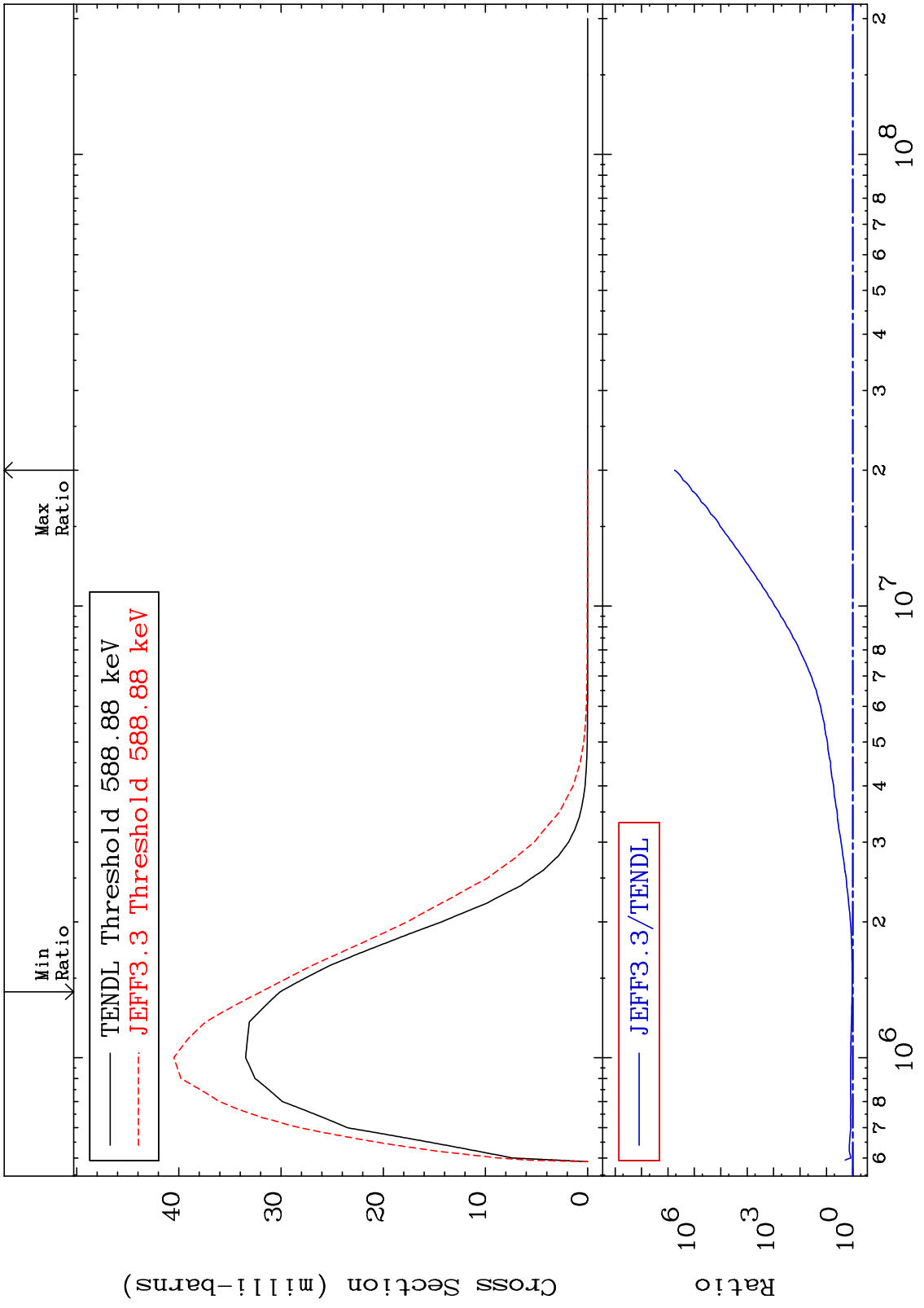
63-Eu-153
-85.82 To 105.4 %



MAT 6331

MT= 71 (n,n') Level
Cross Section

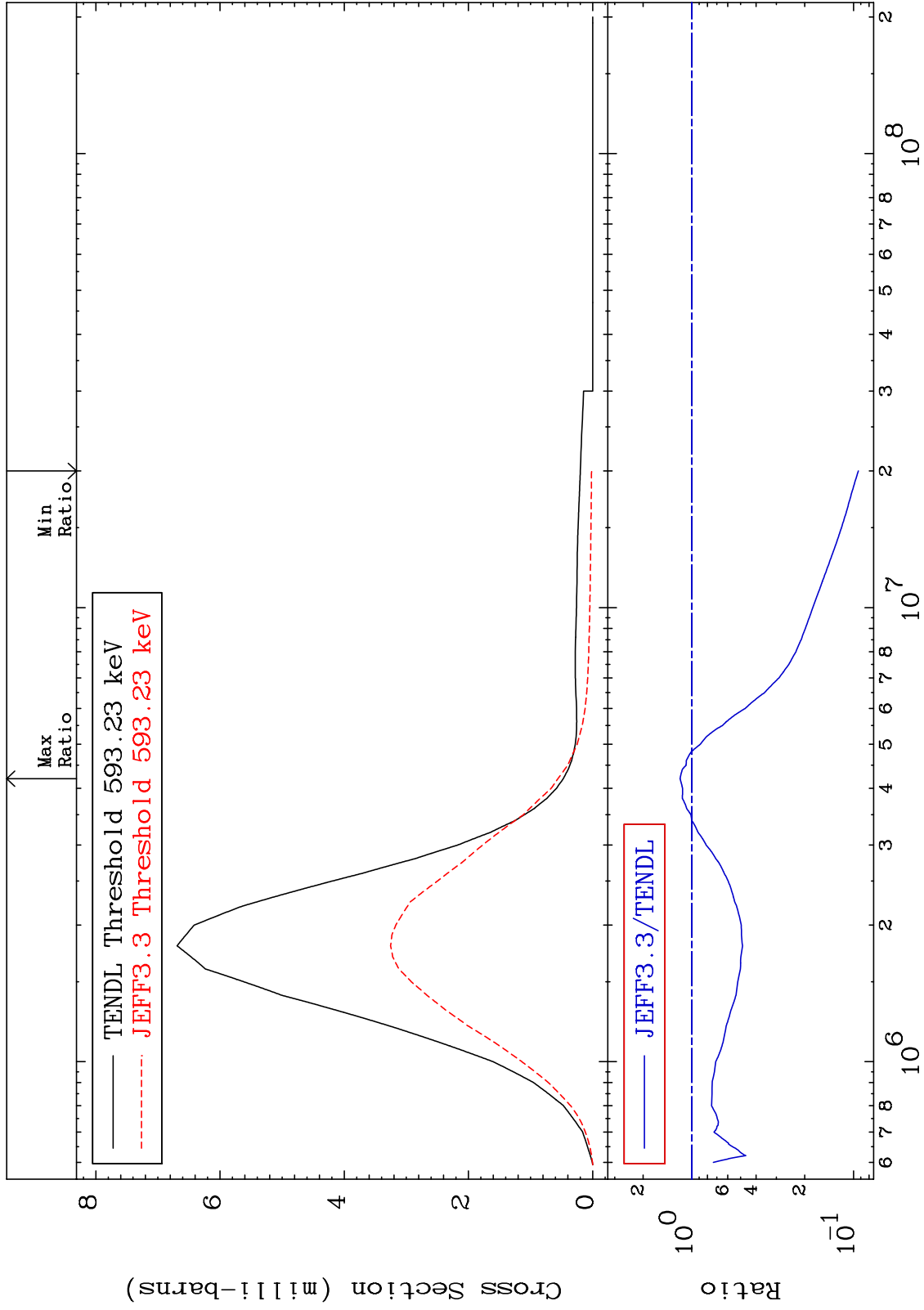
63-Eu-153
6.154 To 9999. %



MAT 6331

MT= 72 (n,n') Level
Cross Section

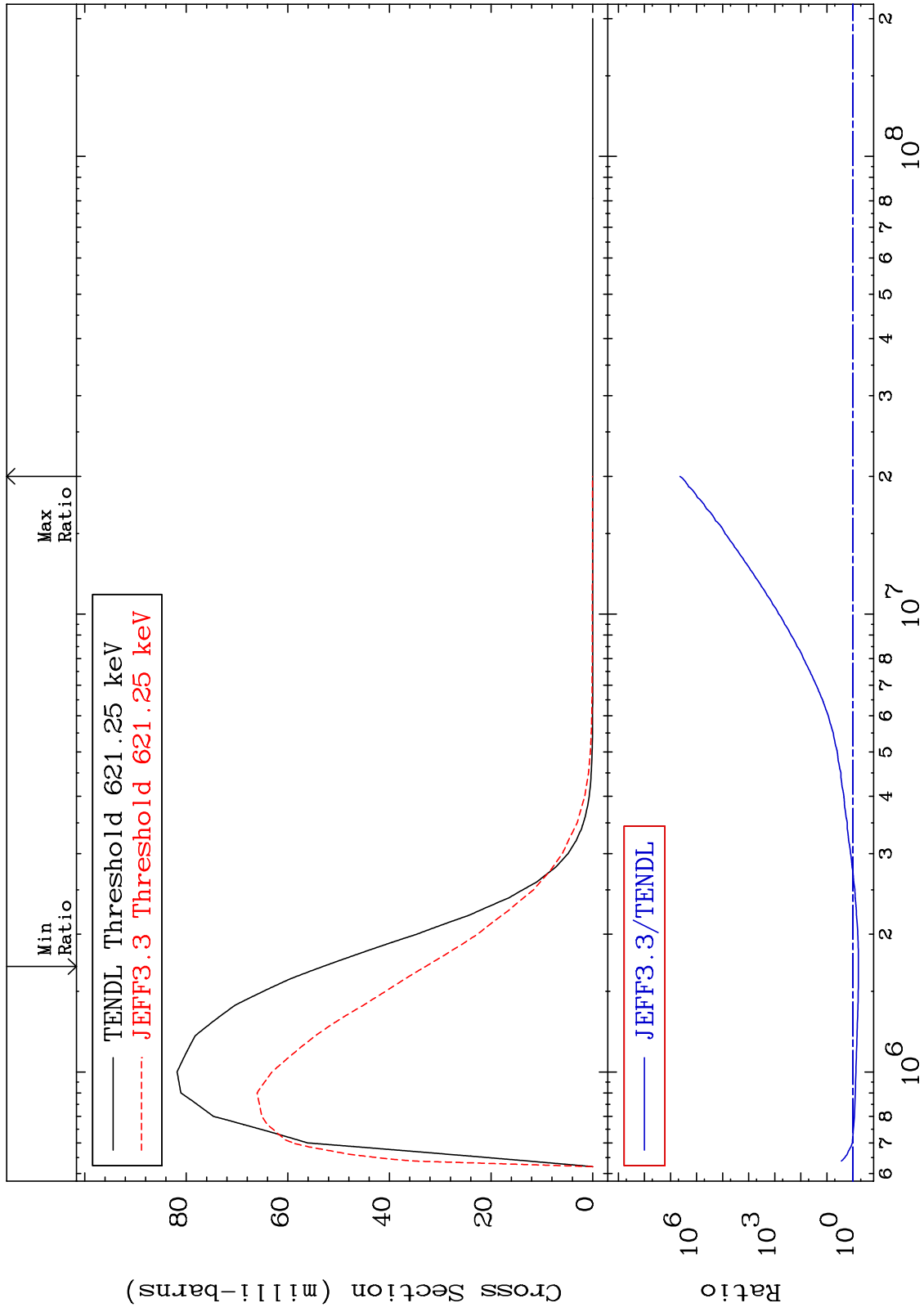
63-Eu-153
-90.68 To 18.34 %



MAT 6331

MT= 73 (n,n') Level
Cross Section

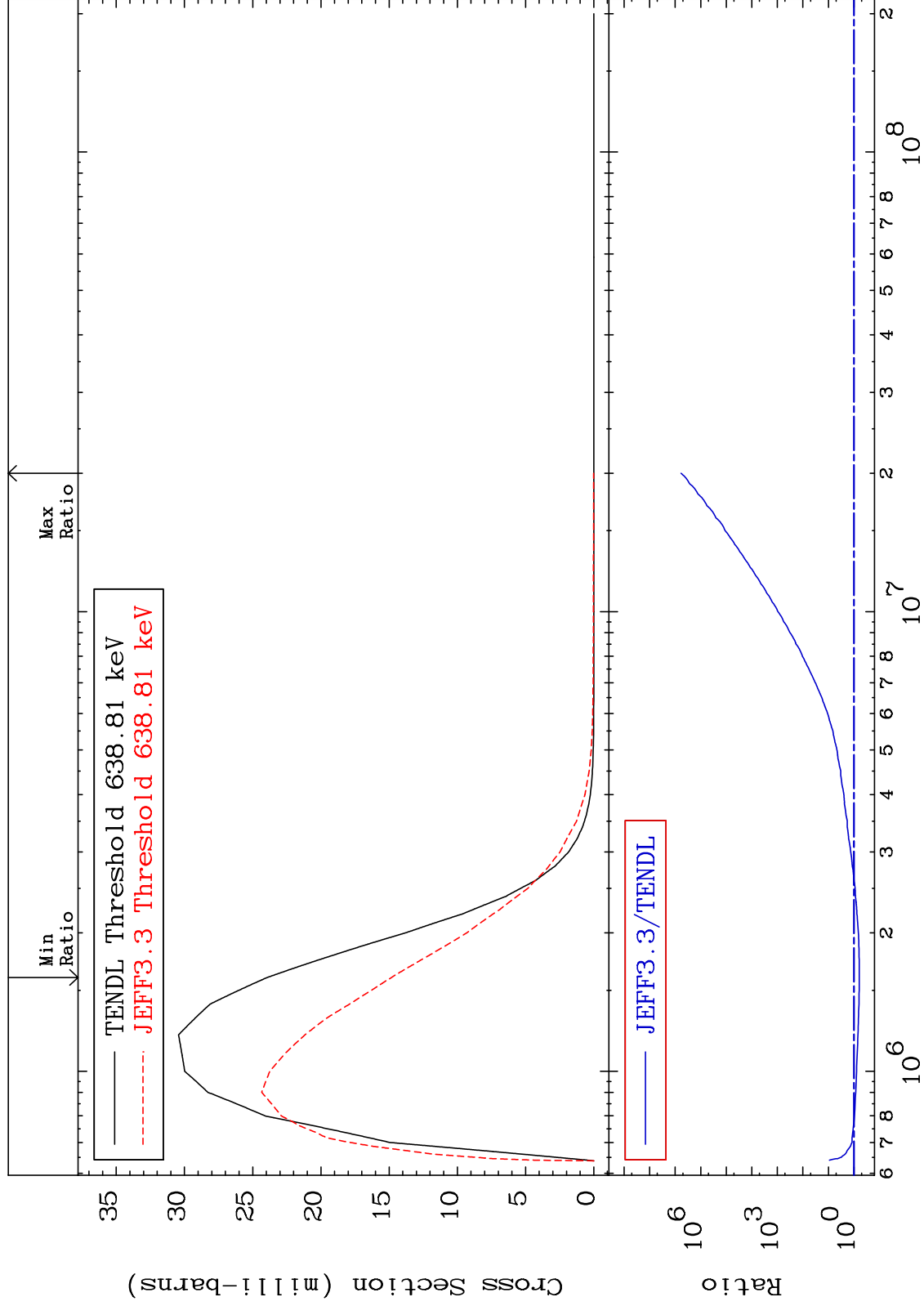
63-Eu-153
-38.07 To 9999. %



MAT 6331

MT= 74 (n,n') Level
Cross Section

63-Eu-153
-38.03 To 9999. %



35

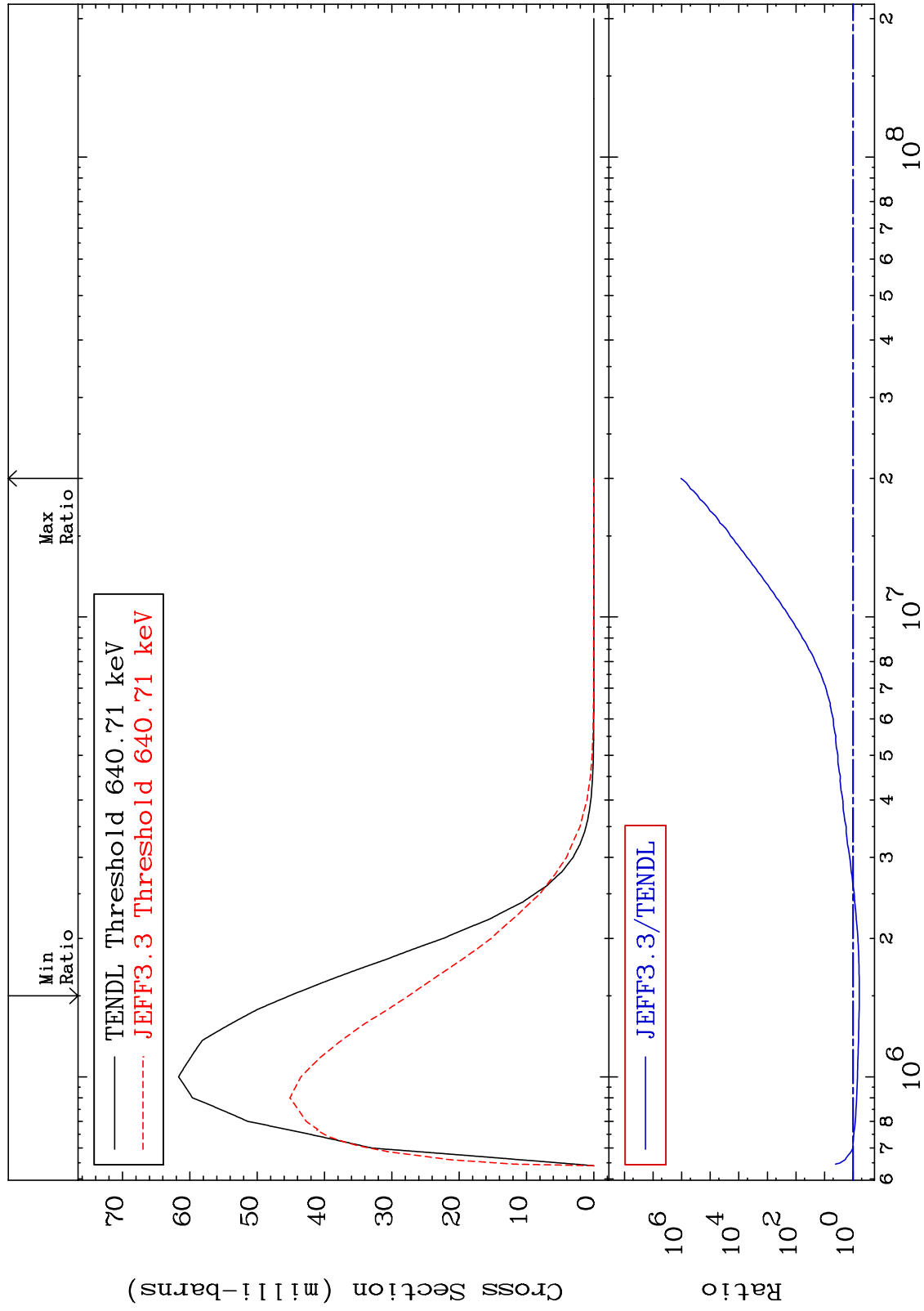
Incident Energy (eV)

63-Eu-153

MAT 6331

MT= 75 (n,n') Level
Cross Section

63-Eu-153
-39.16 To 9999. %



36

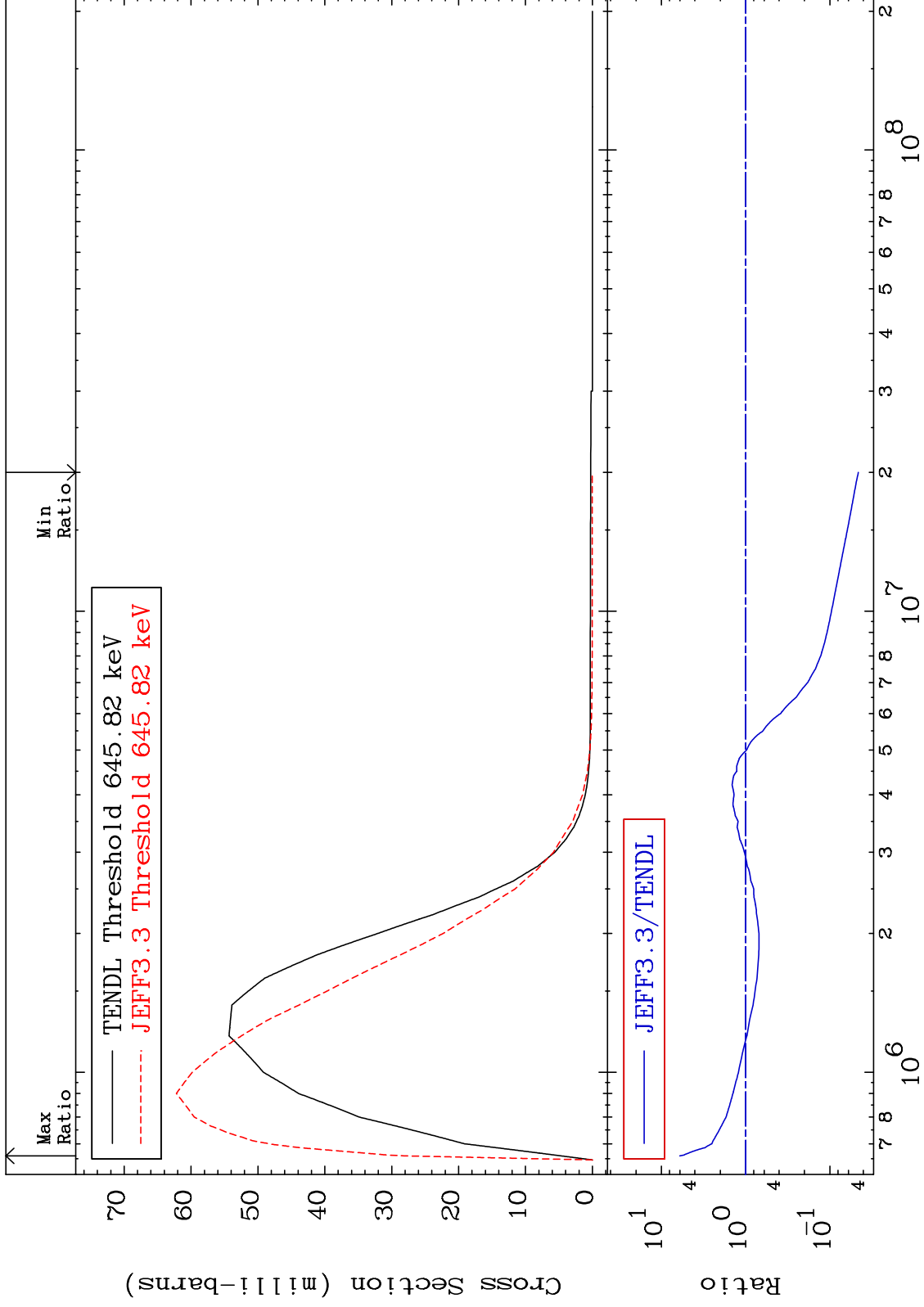
Incident Energy (eV)

63-Eu-153

MAT 6331

MT= 76 (n,n') Level
Cross Section

63-Eu-153
-95.41 To 503.9 %



37

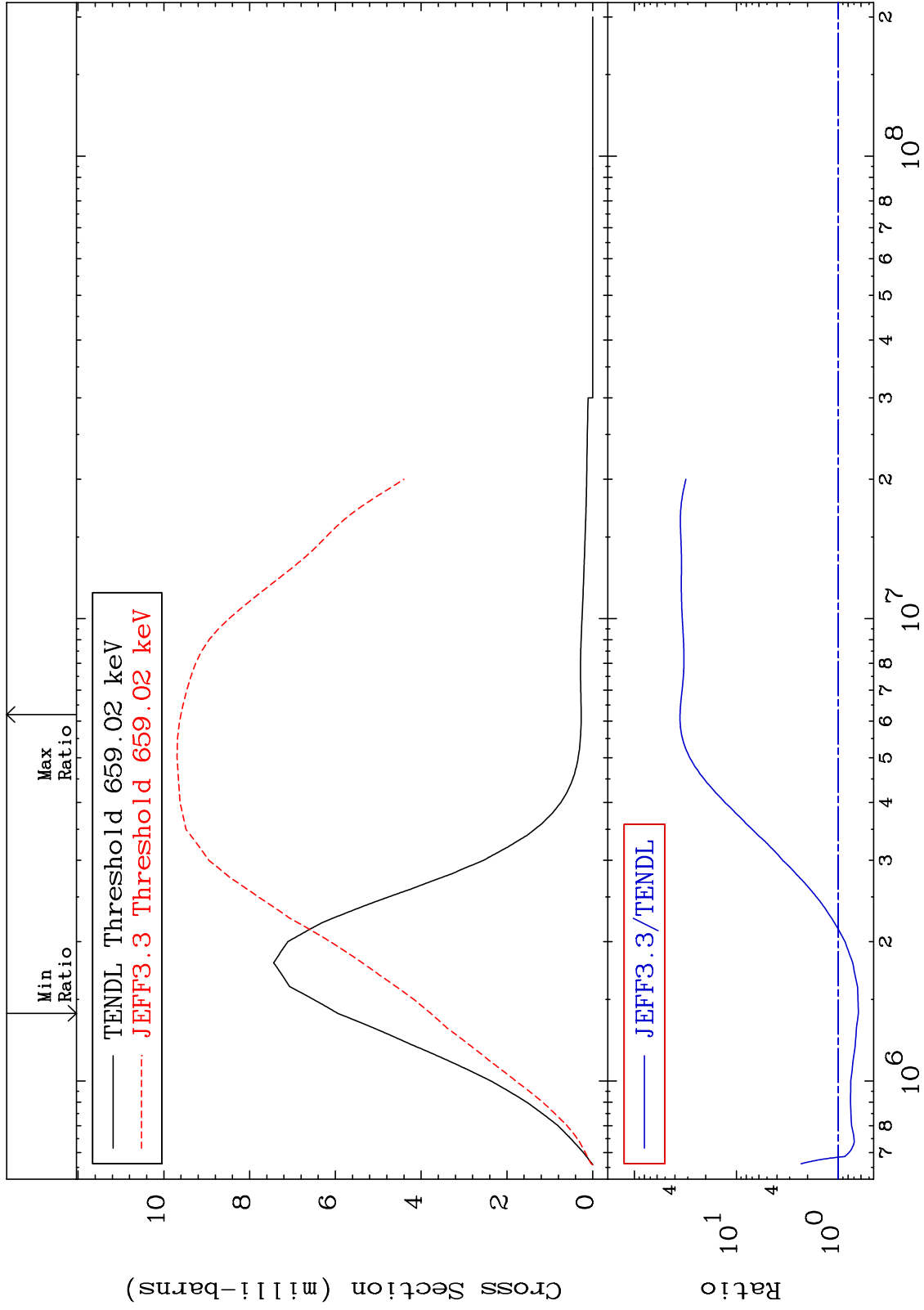
63-Eu-153

63-Eu-153

MAT 6331

MT= 77 (n,n') Level
Cross Section

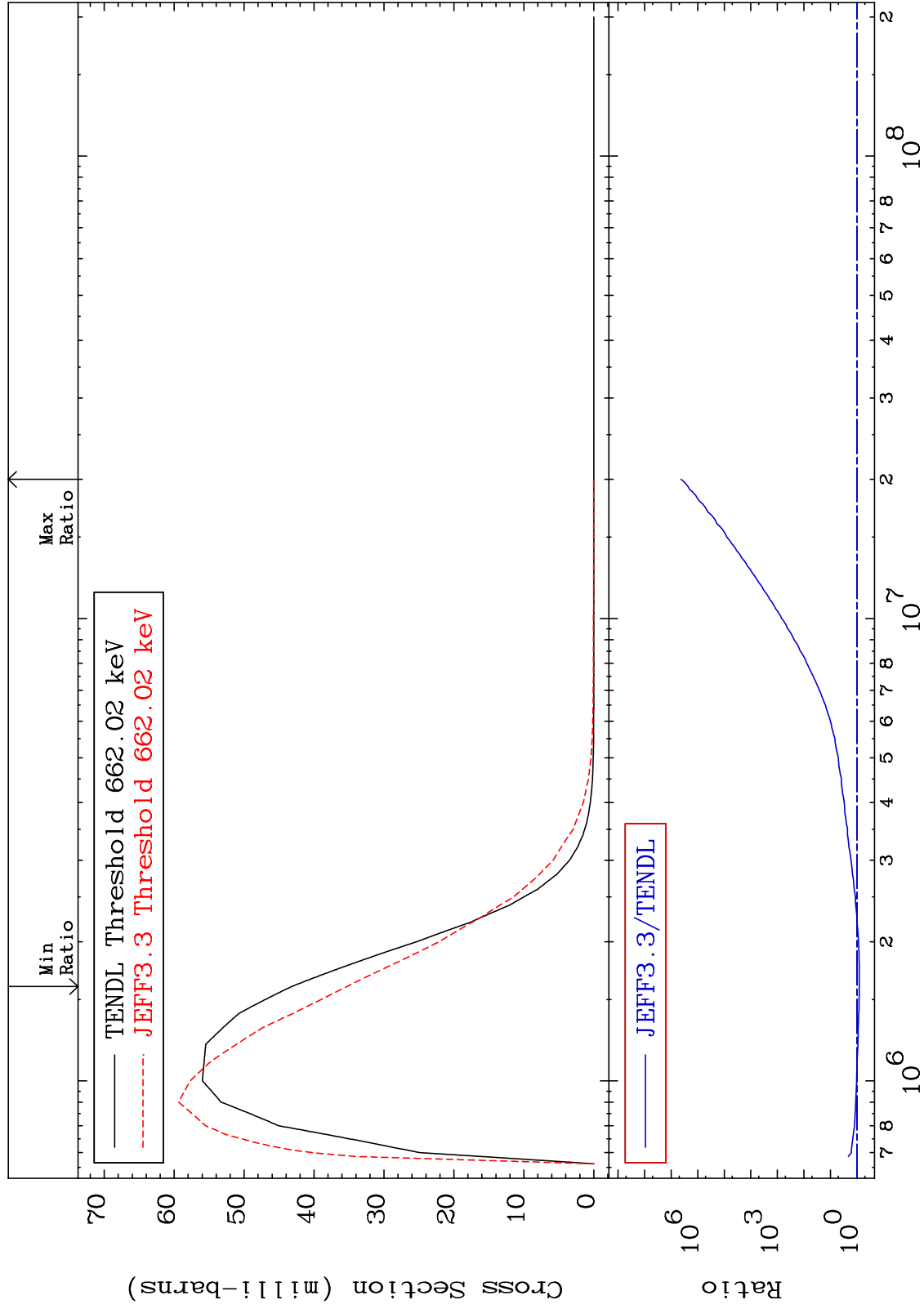
63-Eu-153
-36.50 To 3474. %



MAT 6331

MT= 78 (n,n') Level
Cross Section

63-Eu-153
-18.33 To 9999. %



39

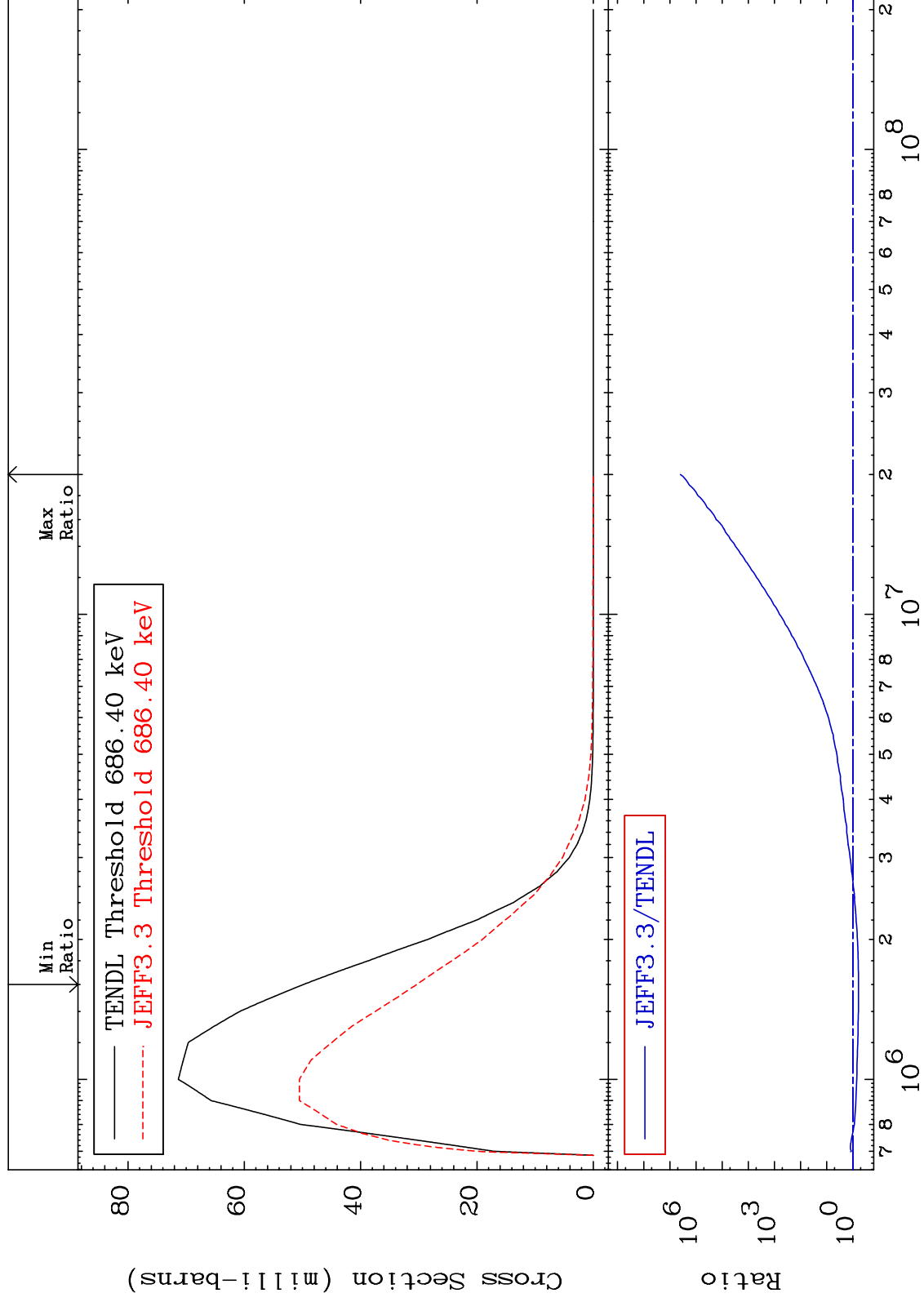
Incident Energy (eV)

63-Eu-153

MAT 6331

MT= 79 (n,n') Level
Cross Section

63-Eu-153
-39.11 To 9999. %

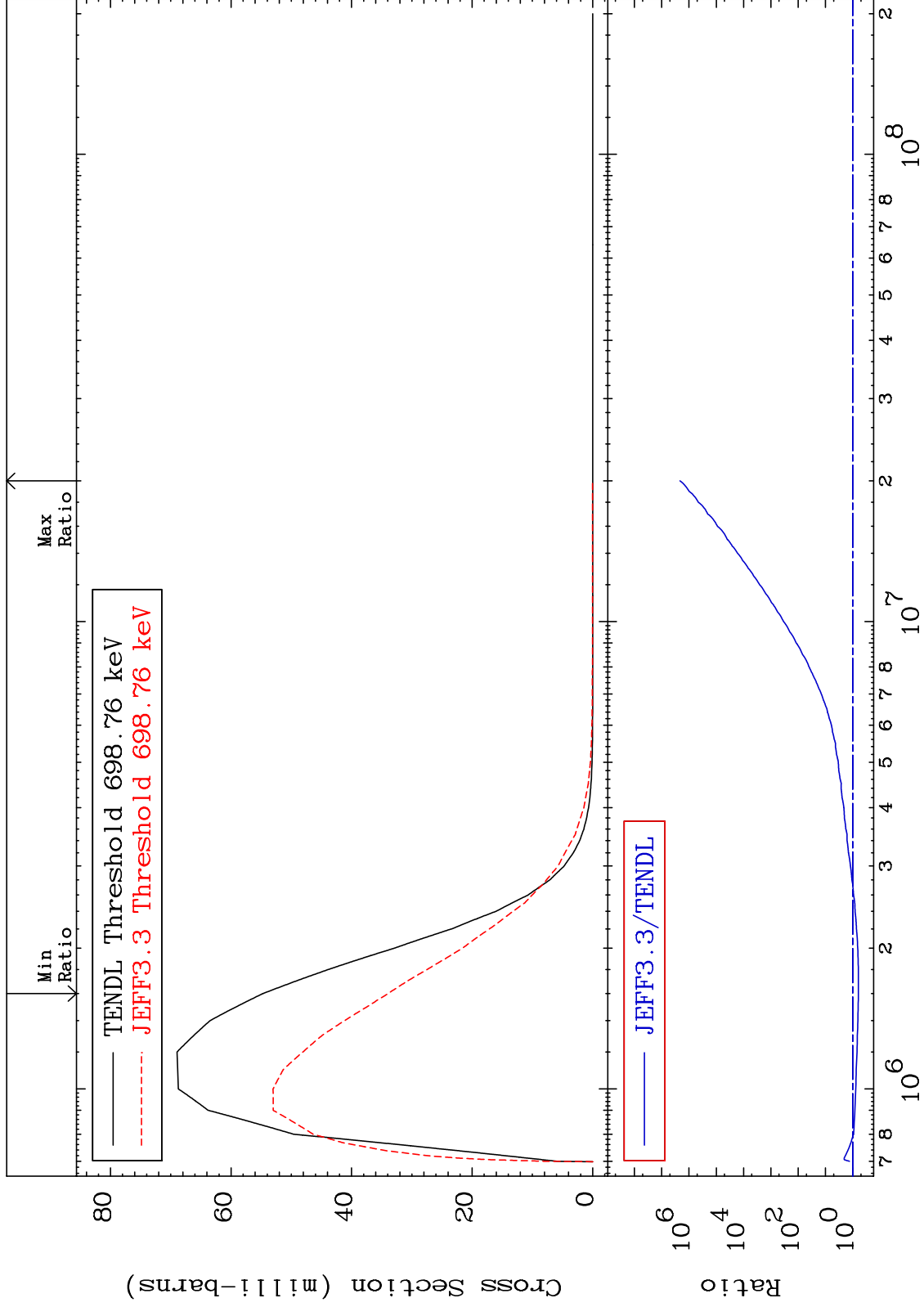


40 63-Eu-153

MAT 6331

MT= 80 (n,n') Level
Cross Section

63-Eu-153
-37.96 To 9999. %



41

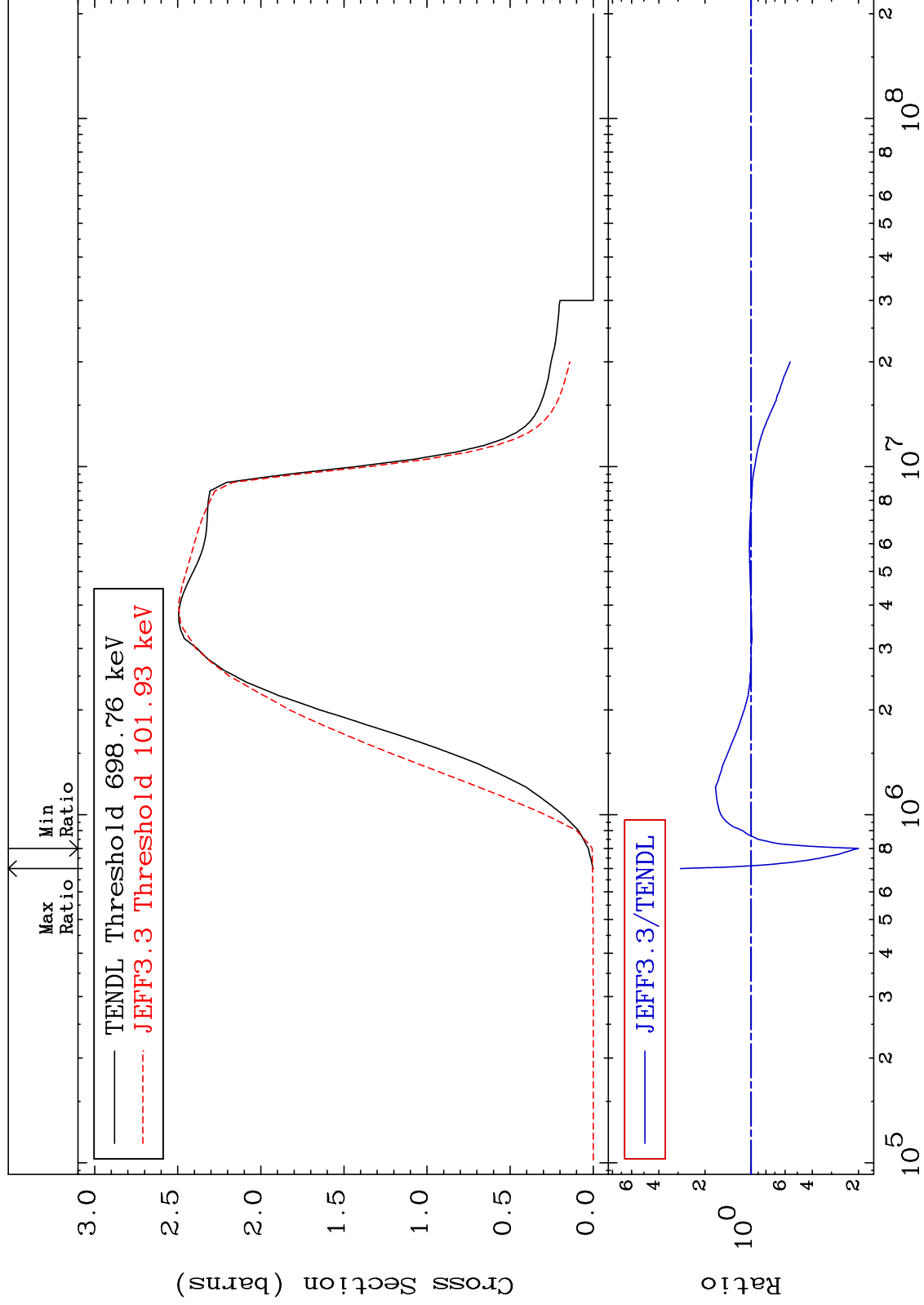
Incident Energy (eV)

63-Eu-153

MAT 6331

(n, n') Continuum
Cross Section

63-Eu-153
-80.03 To 188.8 %



42

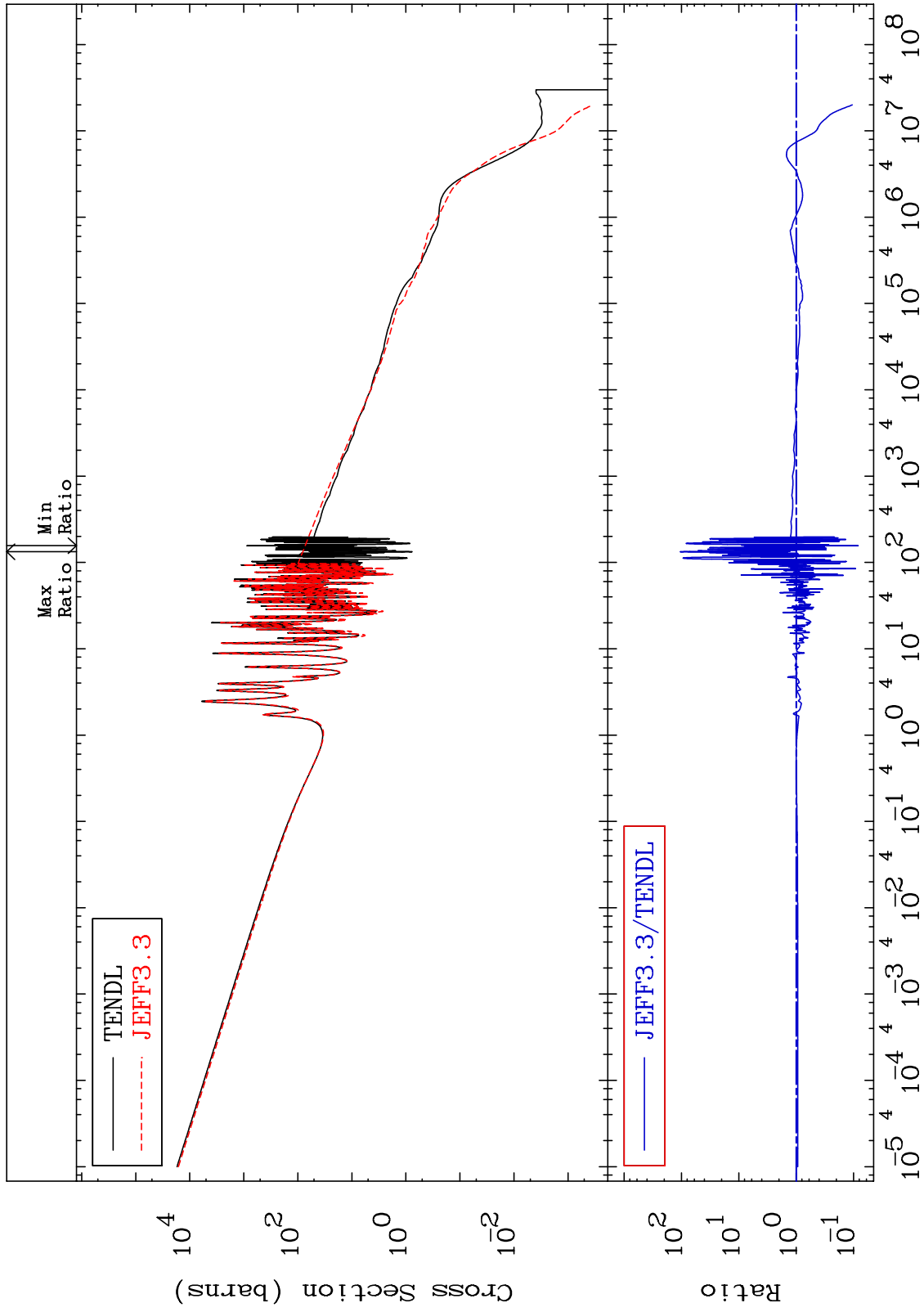
Incident Energy (eV)

63-Eu-153

MAT 6331

(n, γ)
Cross Section

63-Eu-153
-91.75 To 9999. %



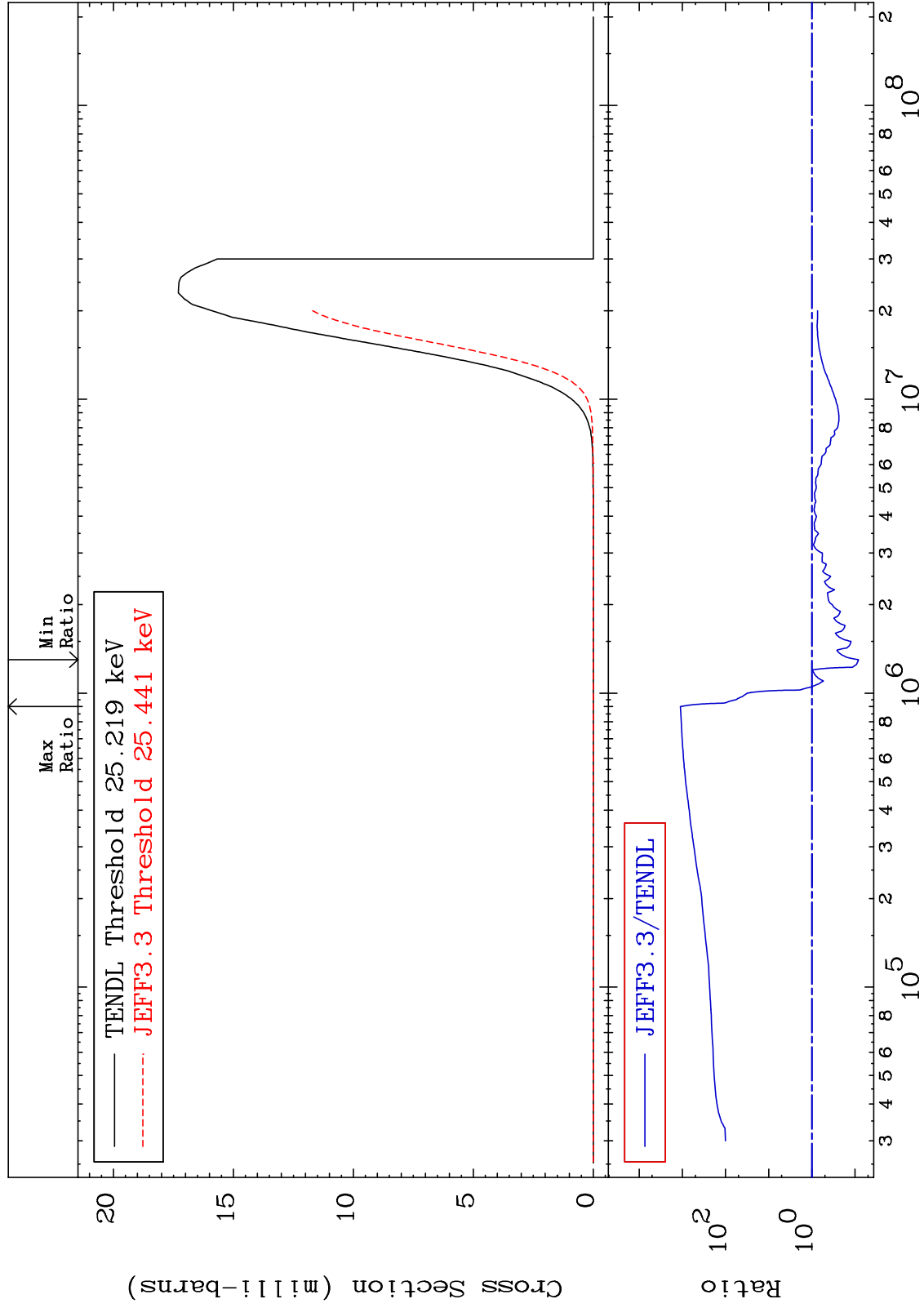
43

Incident Energy (eV)

63-Eu-153

MAT 6331

(n, p)
Cross Section
63-Eu-153
-91.70 To 9999. %



63-Eu-153

Incident Energy (eV)

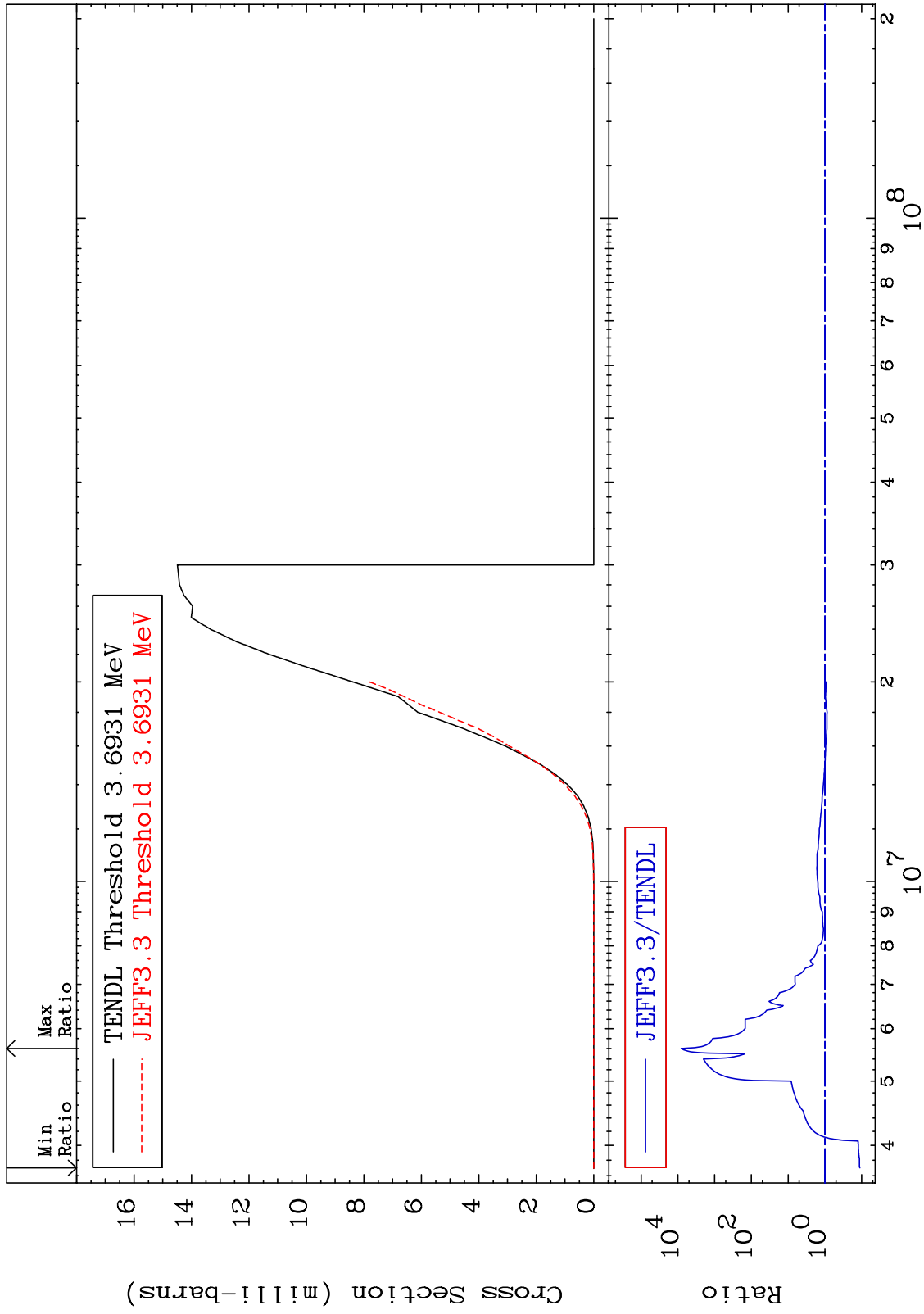
MAT 6331

(n, d)

63-Eu-153

Cross Section

-88.85 To 9999. %



45

Incident Energy (eV)

63-Eu-153

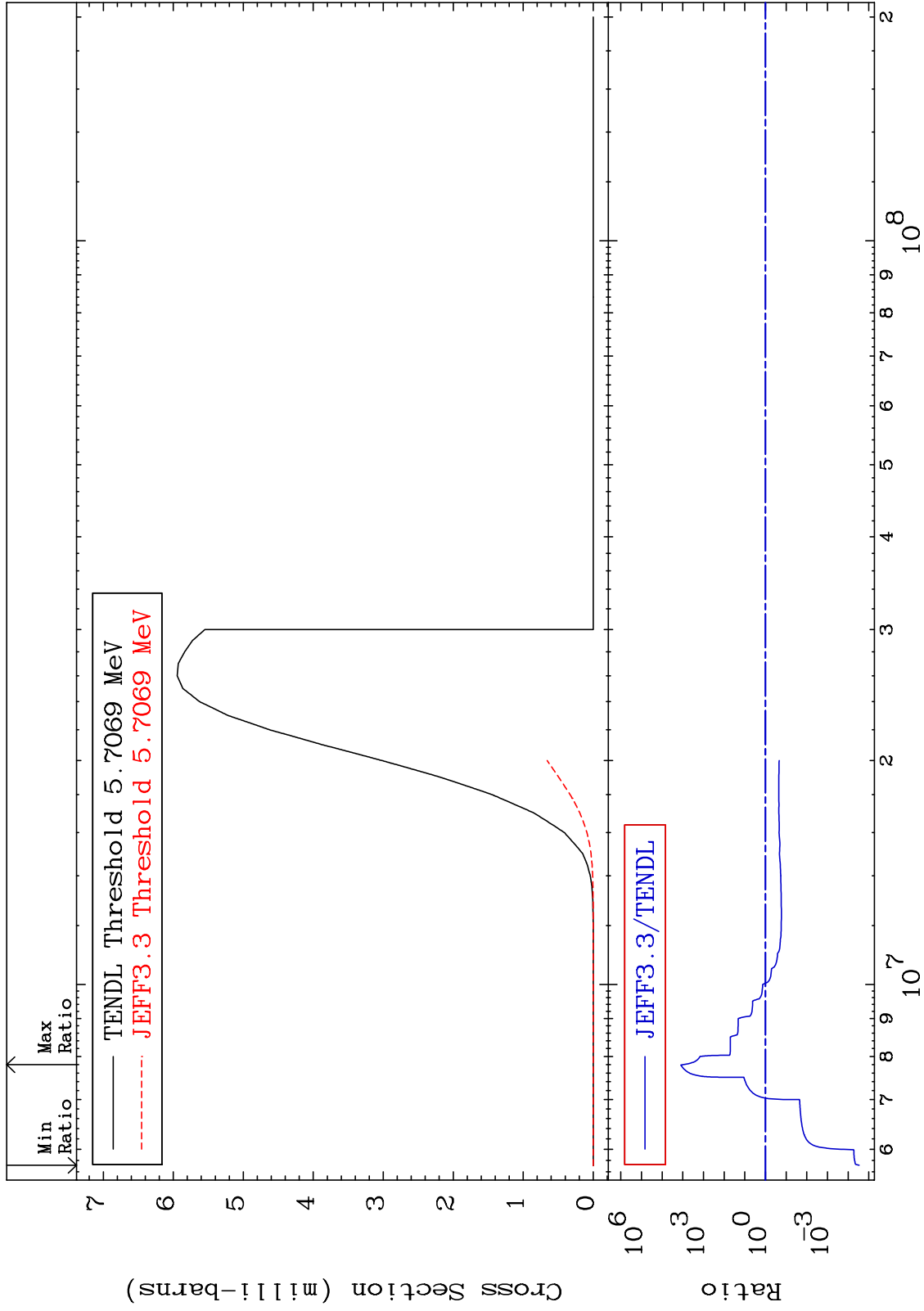
MAT 6331

(n, t)

63-Eu-153

Cross Section

-100.0 To 9999. %



46

Incident Energy (eV)

63-Eu-153

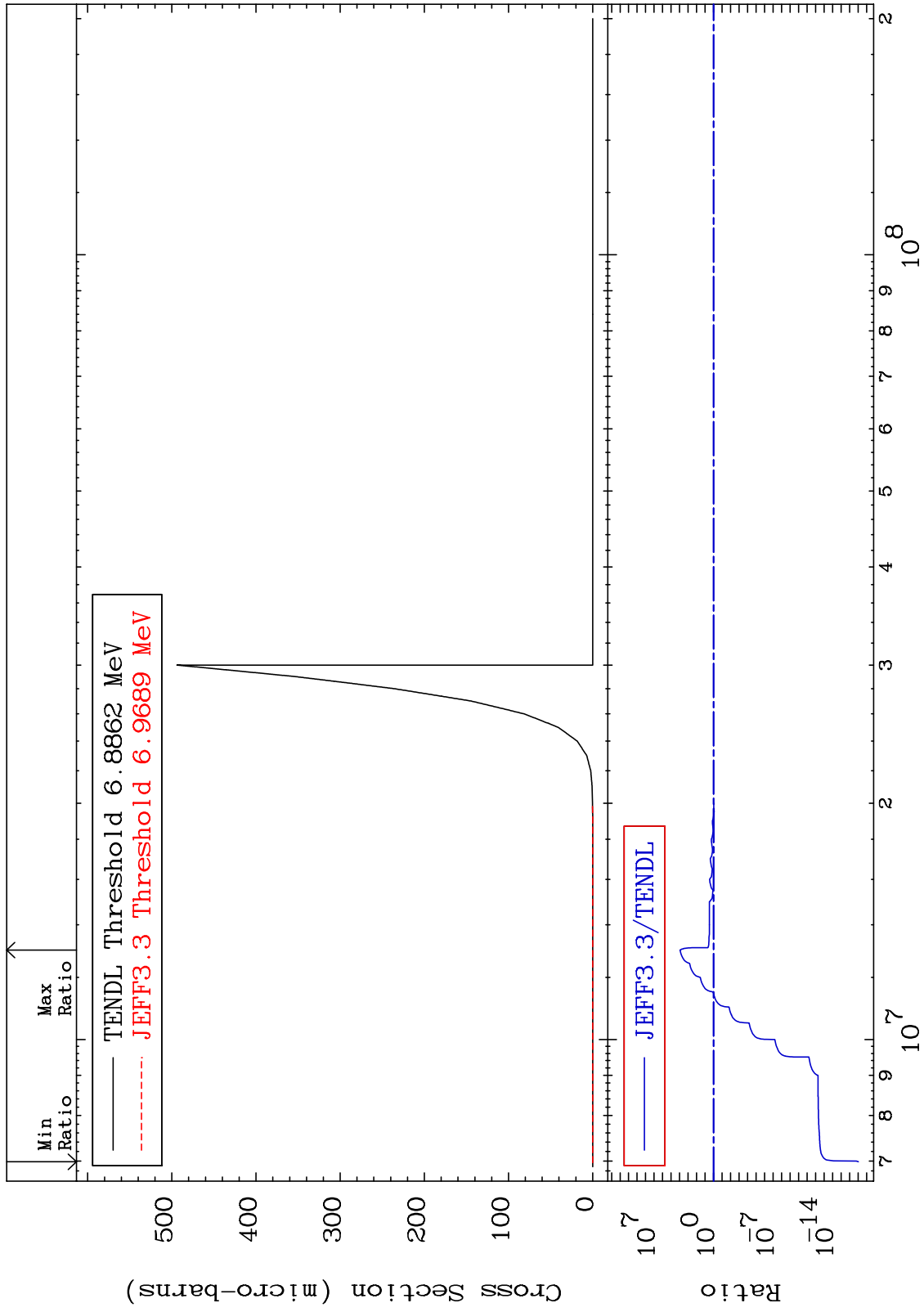
MAT 6331

(n, He-3)

63-Eu-153

Cross Section

-100.0 To 9999. %



47

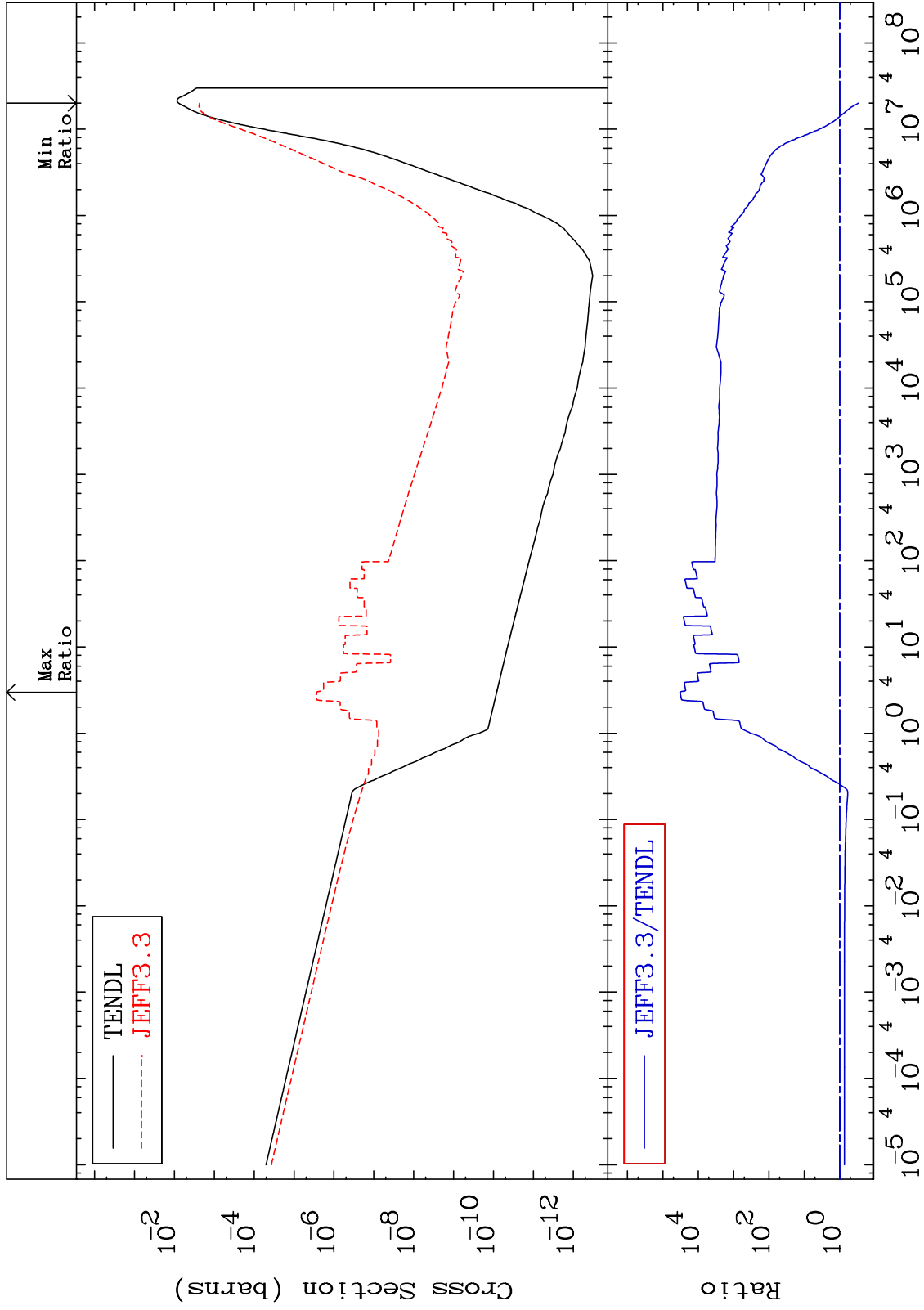
Incident Energy (eV)

63-Eu-153

MAT 6331

63-Eu-153

(n, α)
Cross Section
-70.53 To 9999. %



48

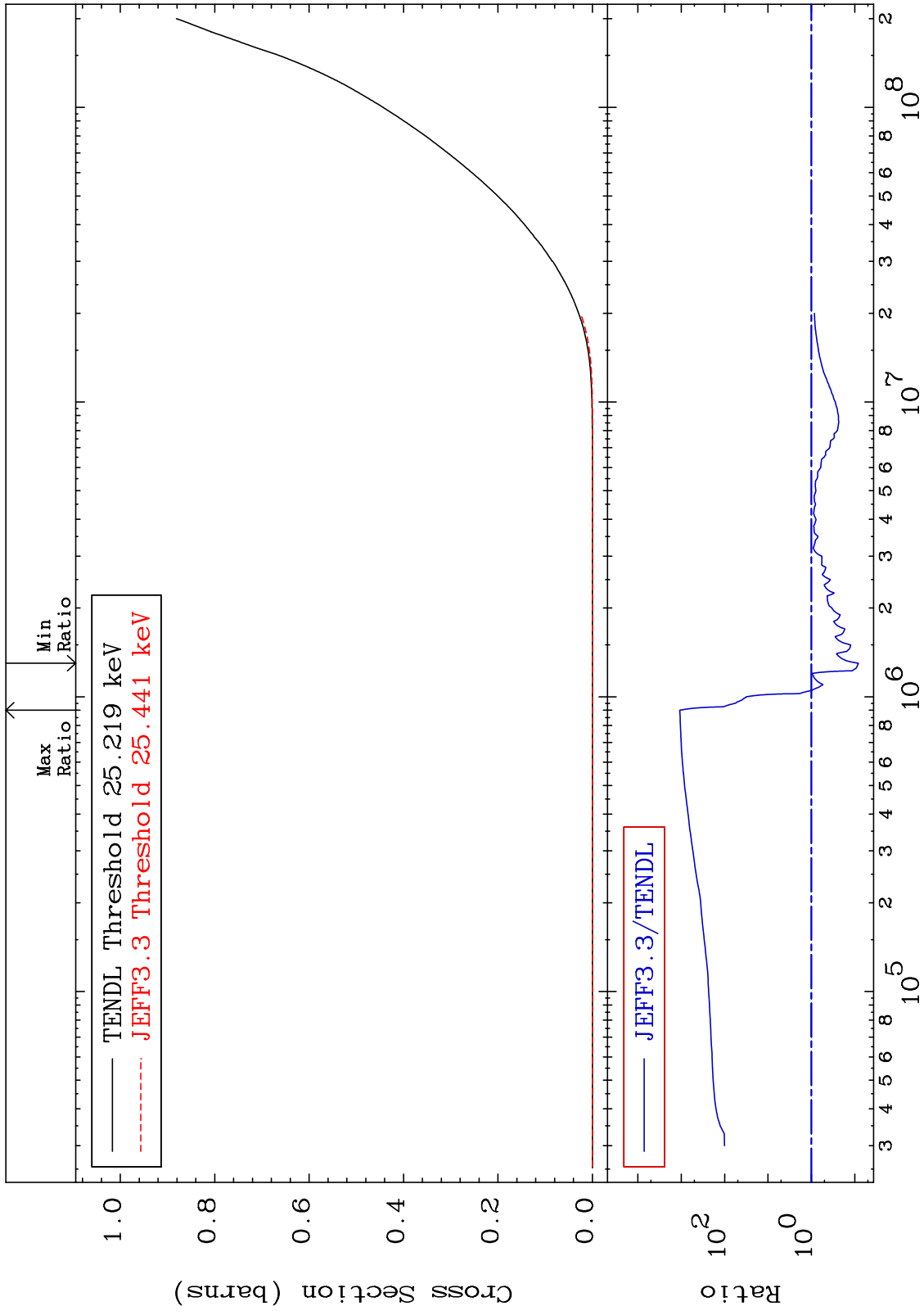
Incident Energy (eV)

63-Eu-153

MAT 6331

Hydrogen Production
Cross Section

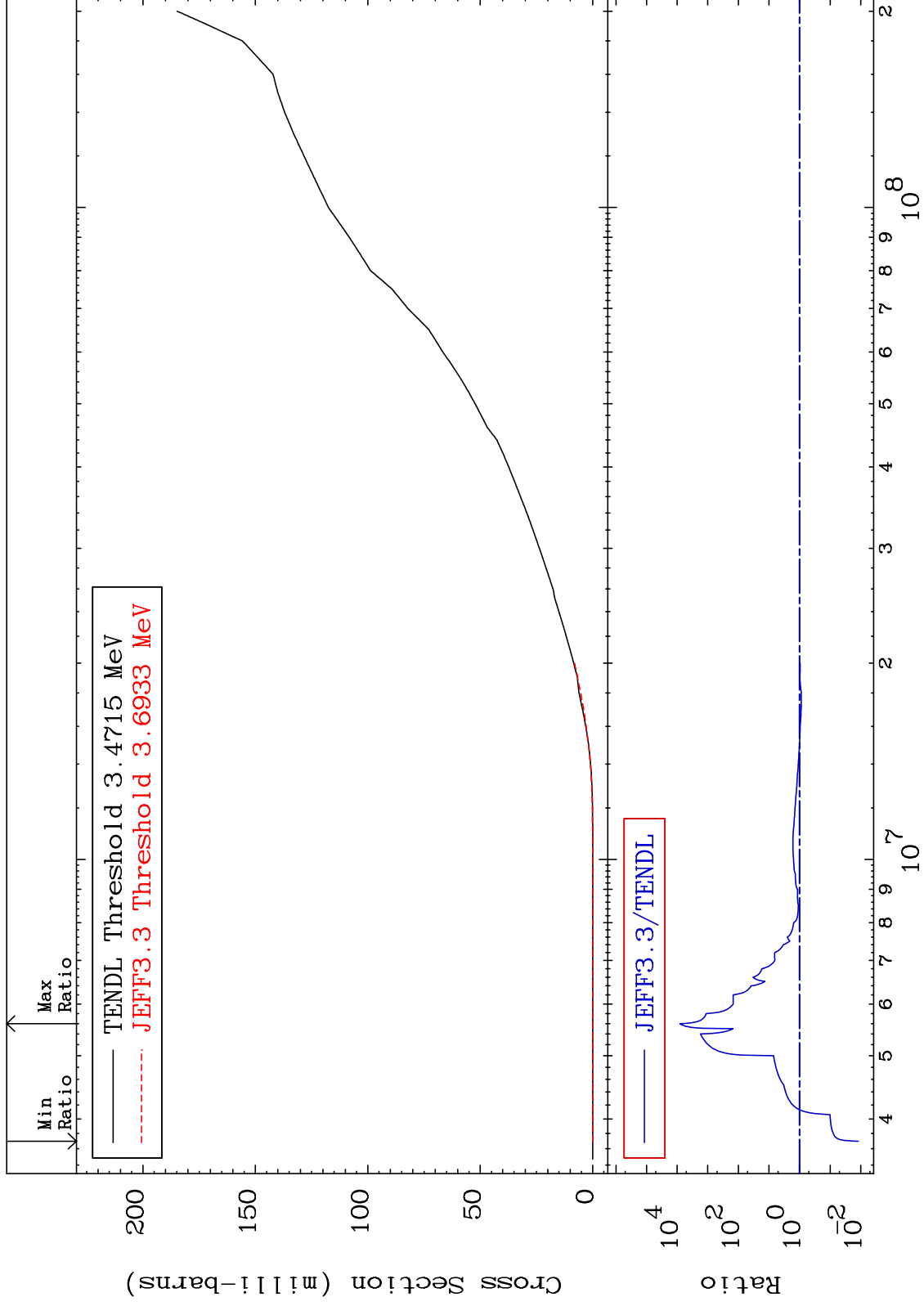
63-Eu-153
-91.70 To 9999. %



MAT 6331

Deuterium Production
Cross Section

63-Eu-153
-98.81 To 9999. %



50

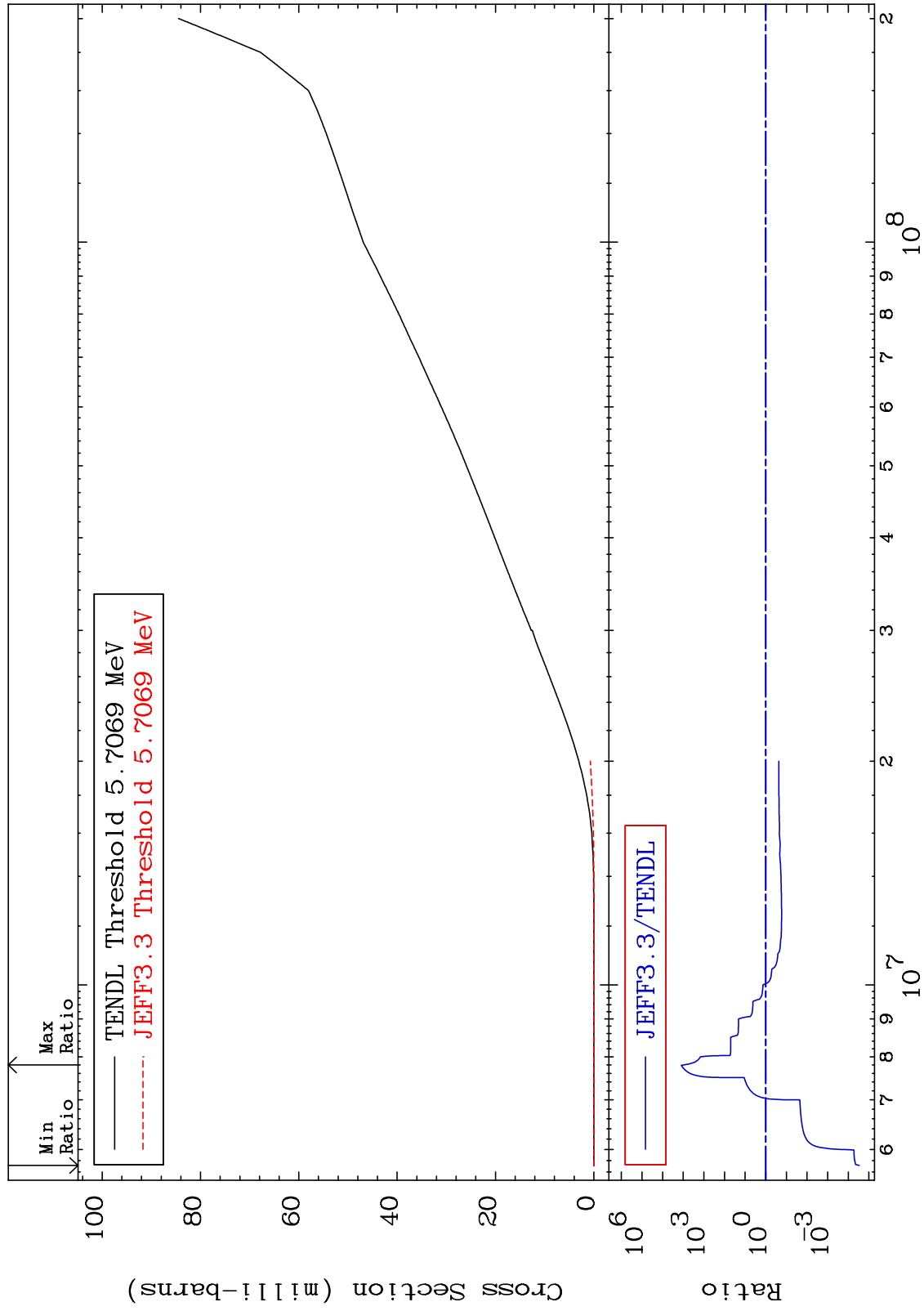
Incident Energy (eV)

63-Eu-153

MAT 6331

Tritium Production
Cross Section

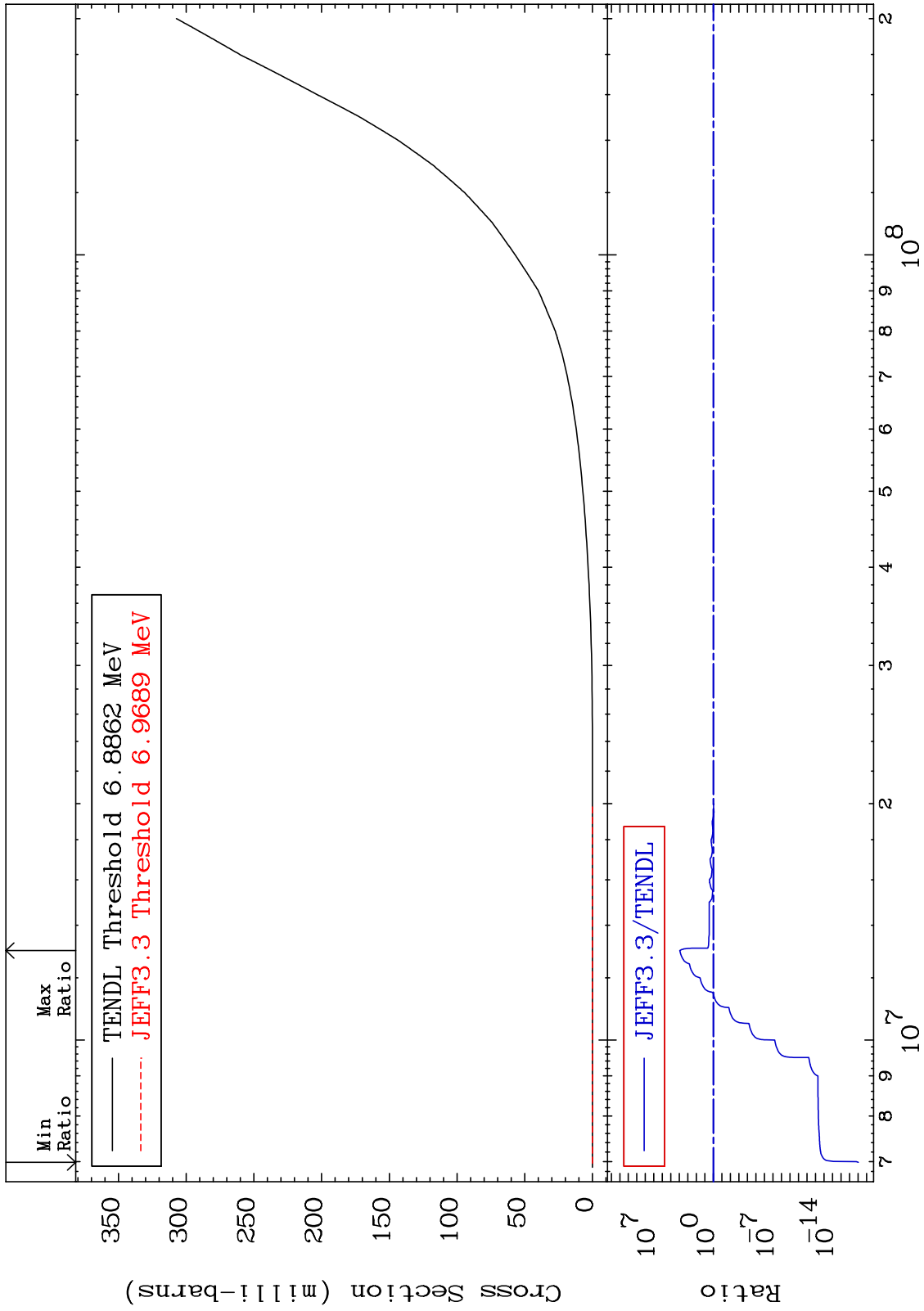
63-Eu-153
-100.0 To 9999. %



MAT 6331

He-3 Production
Cross Section

63-Eu-153
-100.0 To 9999. %



52

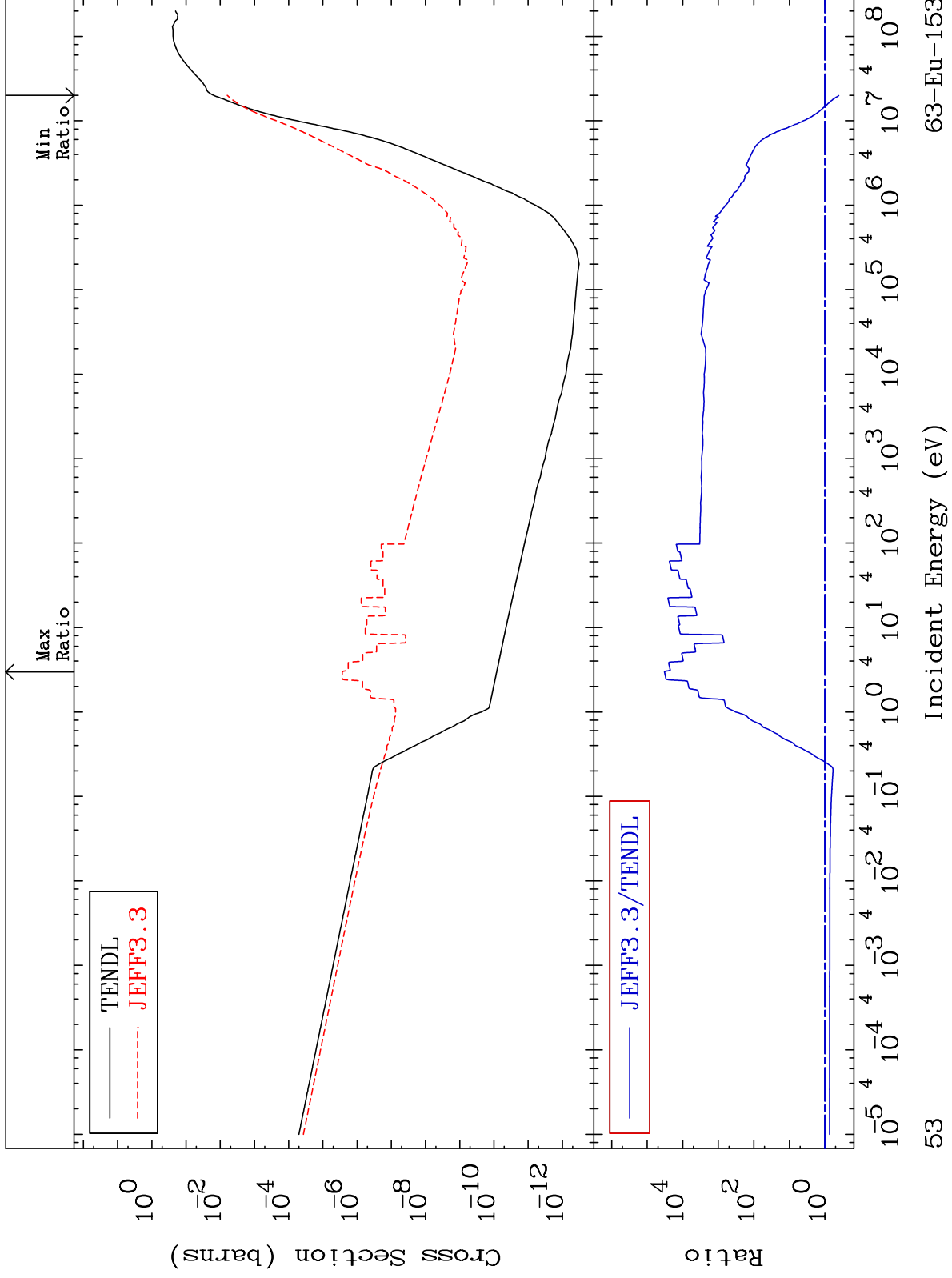
Incident Energy (eV)

63-Eu-153

MAT 6331

He-4 Production
Cross Section

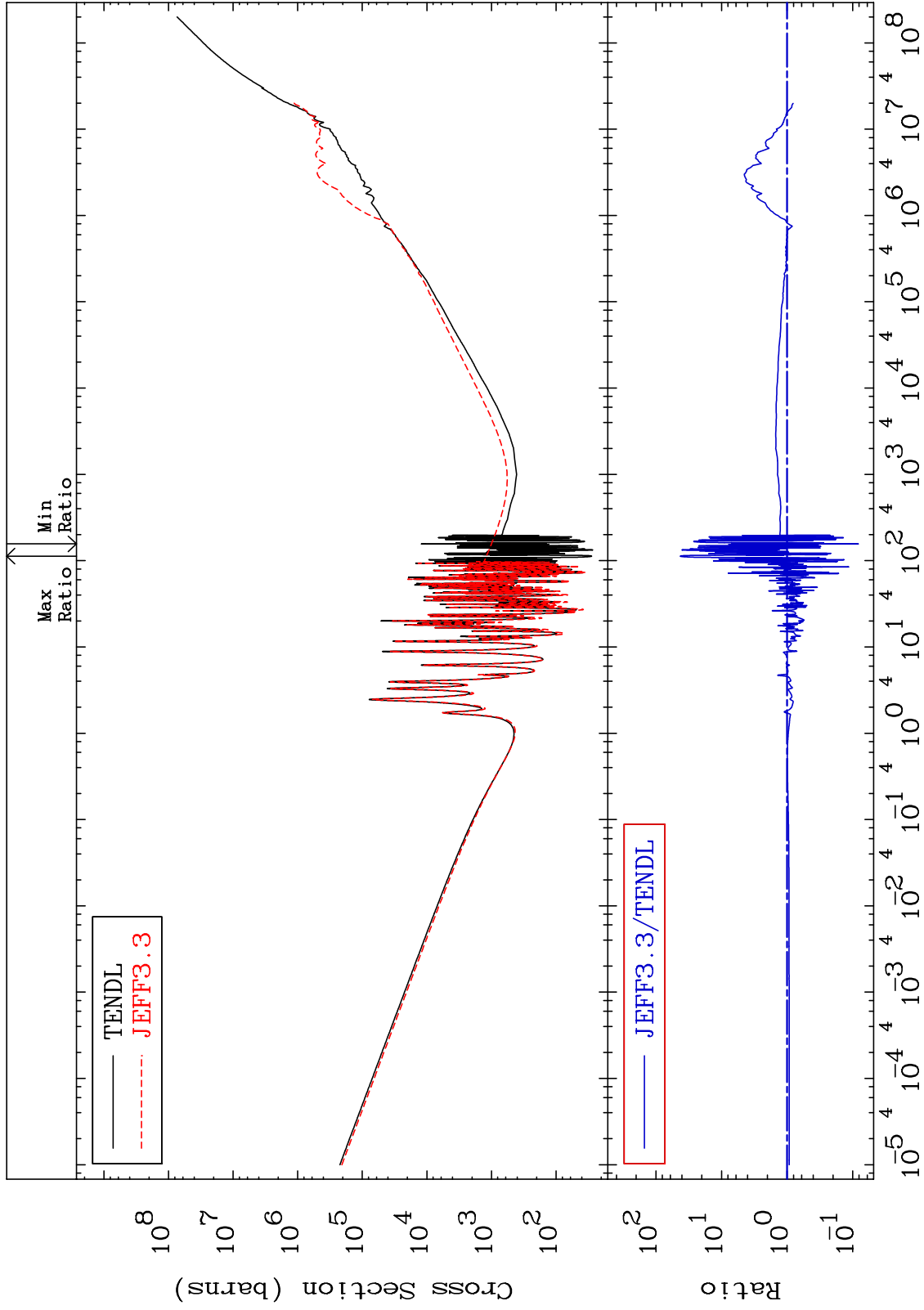
63-Eu-153
-59.91 To 9999. %



MAT 6331

Kerma total (eV-barns)
Cross Section

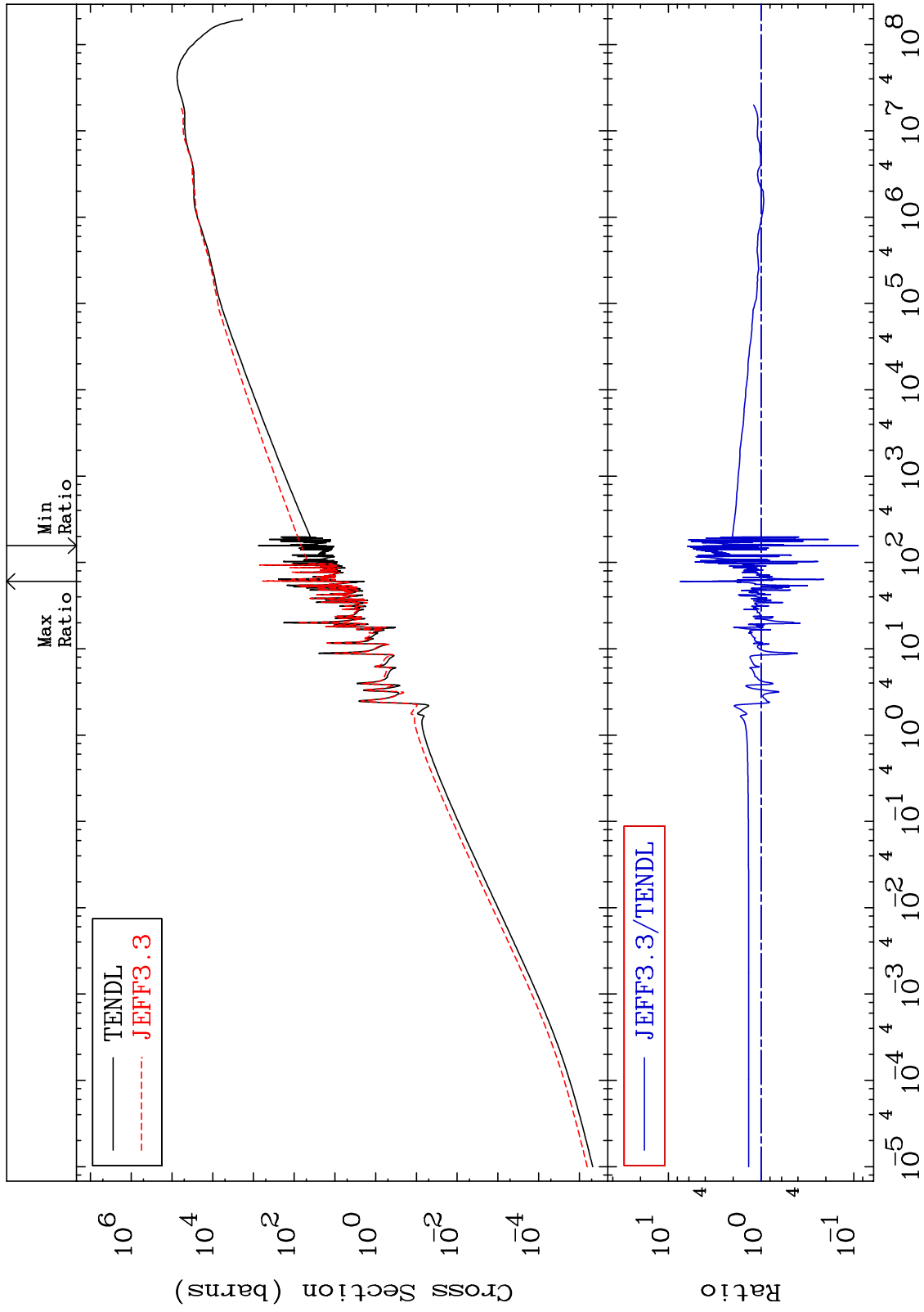
63-Eu-153
-91.80 To 4191. %



MAT 6331

Kerma elastic
Cross Section

63-Eu-153
-91.11 To 650.0 %



55

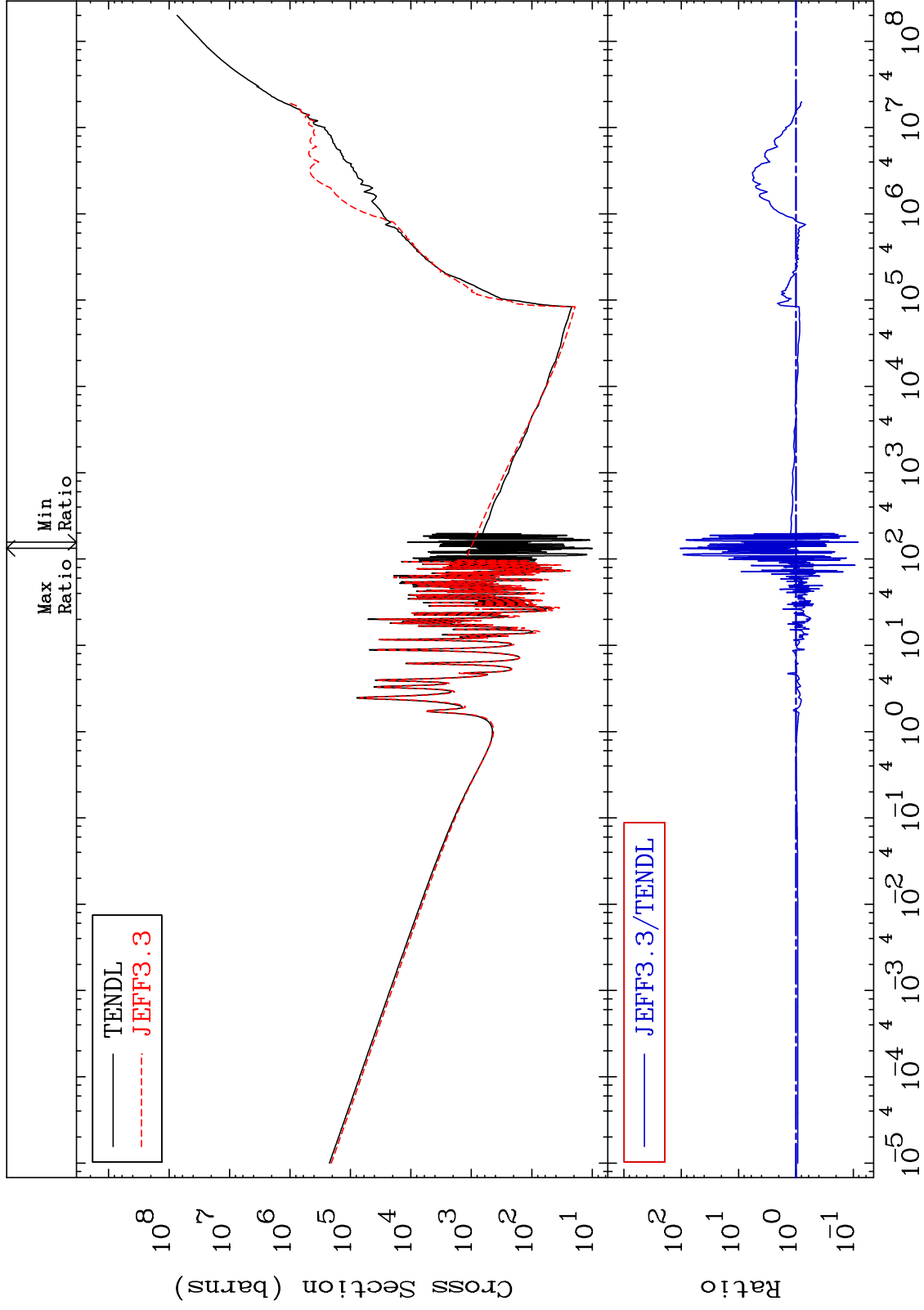
Incident Energy (eV)

63-Eu-153

MAT 6331

Kerma non-elastic (all but mt2)
Cross Section

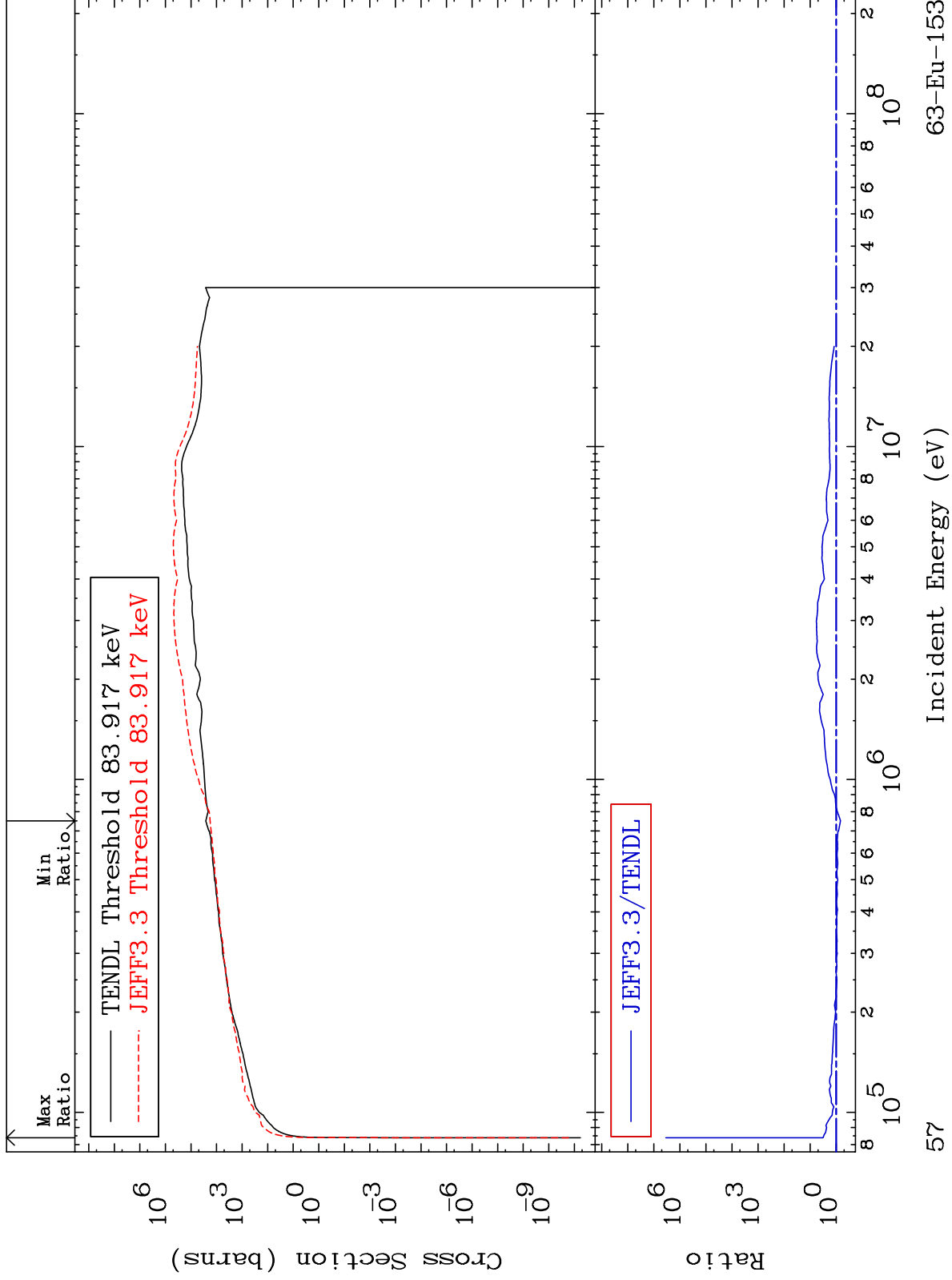
63-Eu-153
-91.84 To 9999. %



MAT 6331

Kerma inelastic (mt51-91)
Cross Section

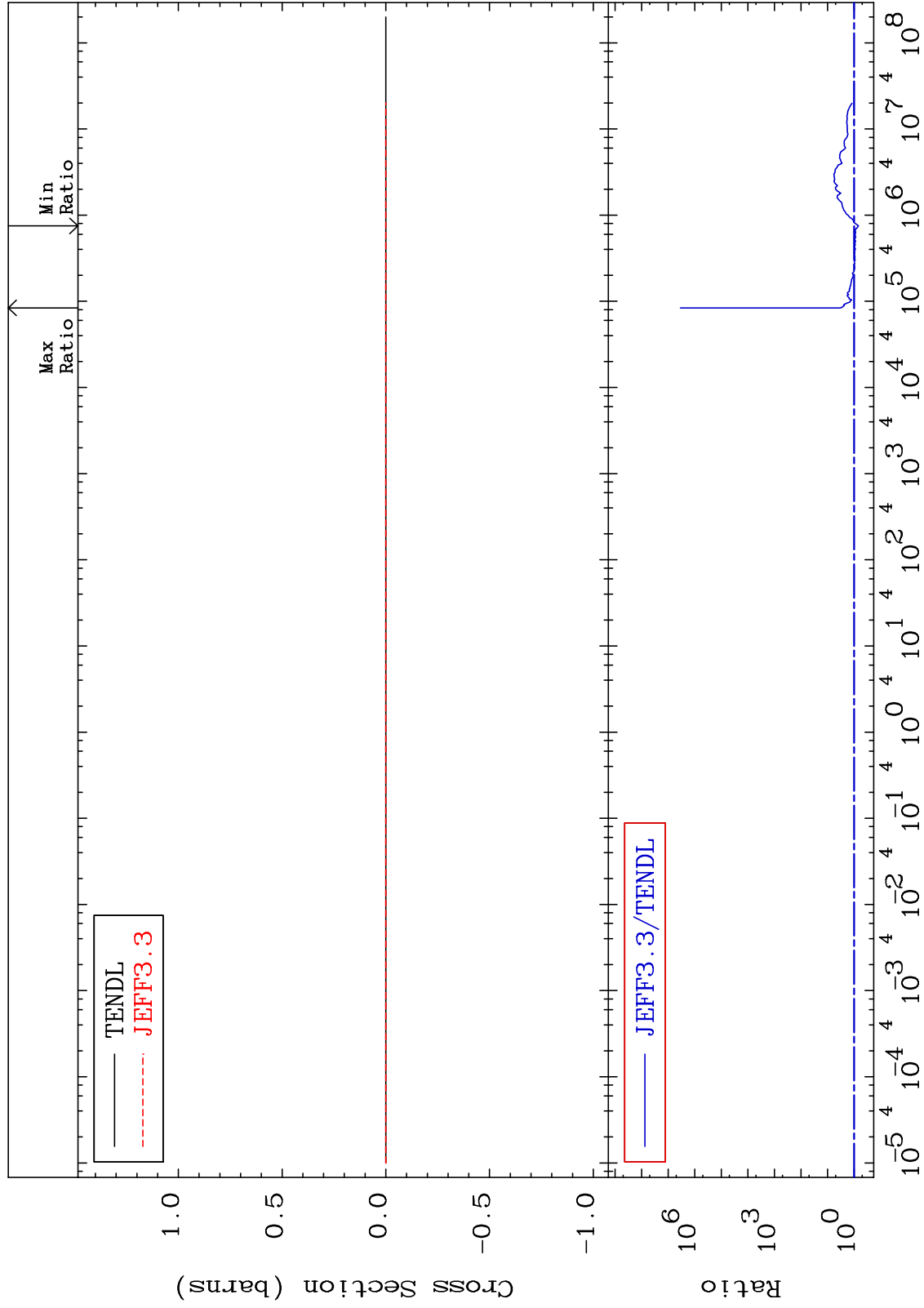
63-Eu-153
-31.82 To 9999. %



MAT 6331

Kerma fission (mt18 or mt19-20-21-38)
Cross Section

63-Eu-153
-31.82 To 9999. %



58

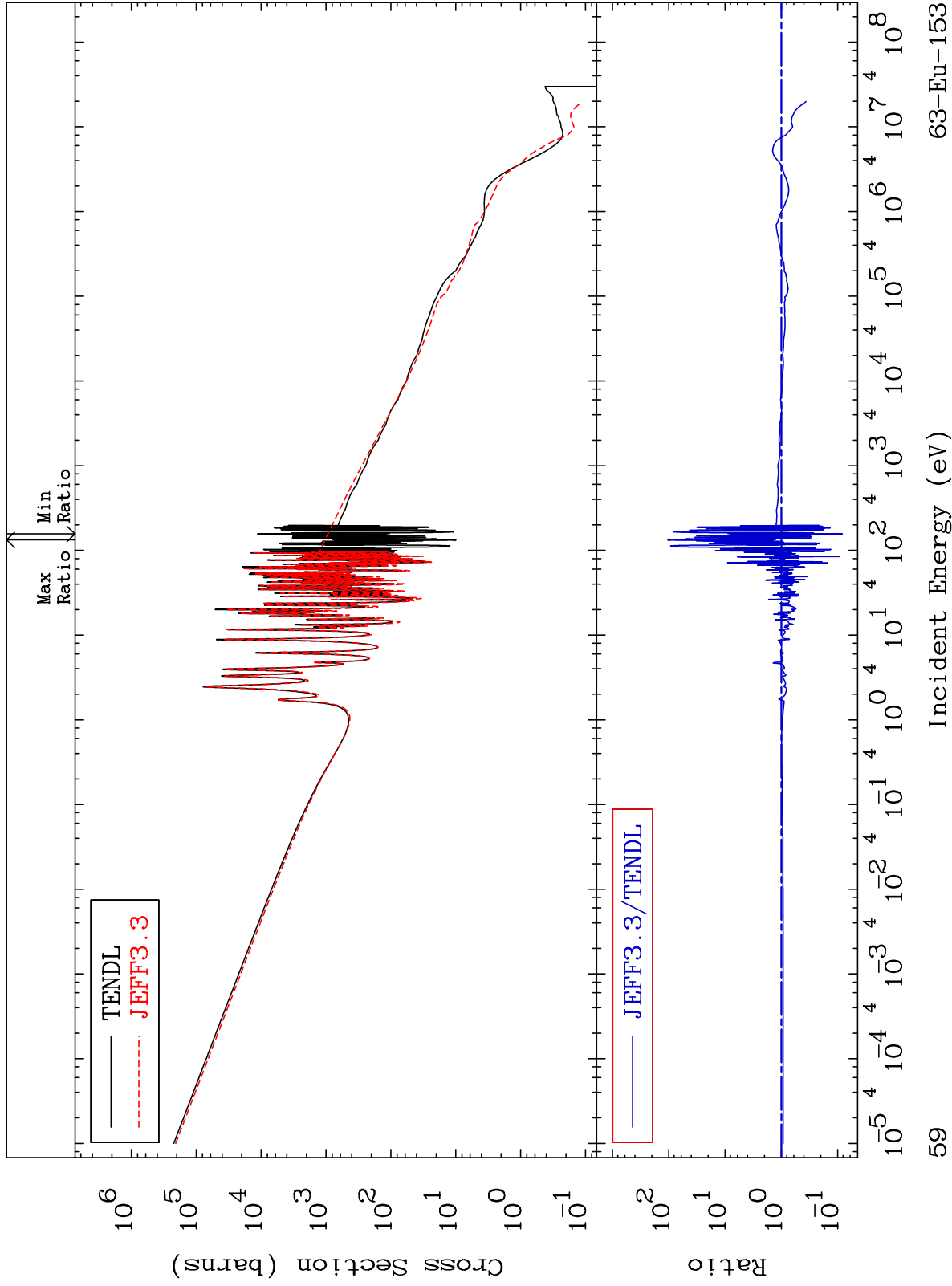
Incident Energy (eV)

63-Eu-153

MAT 6331

Kerma capture (mt102)
Cross Section

63-Eu-153
-91.85 To 9999. %

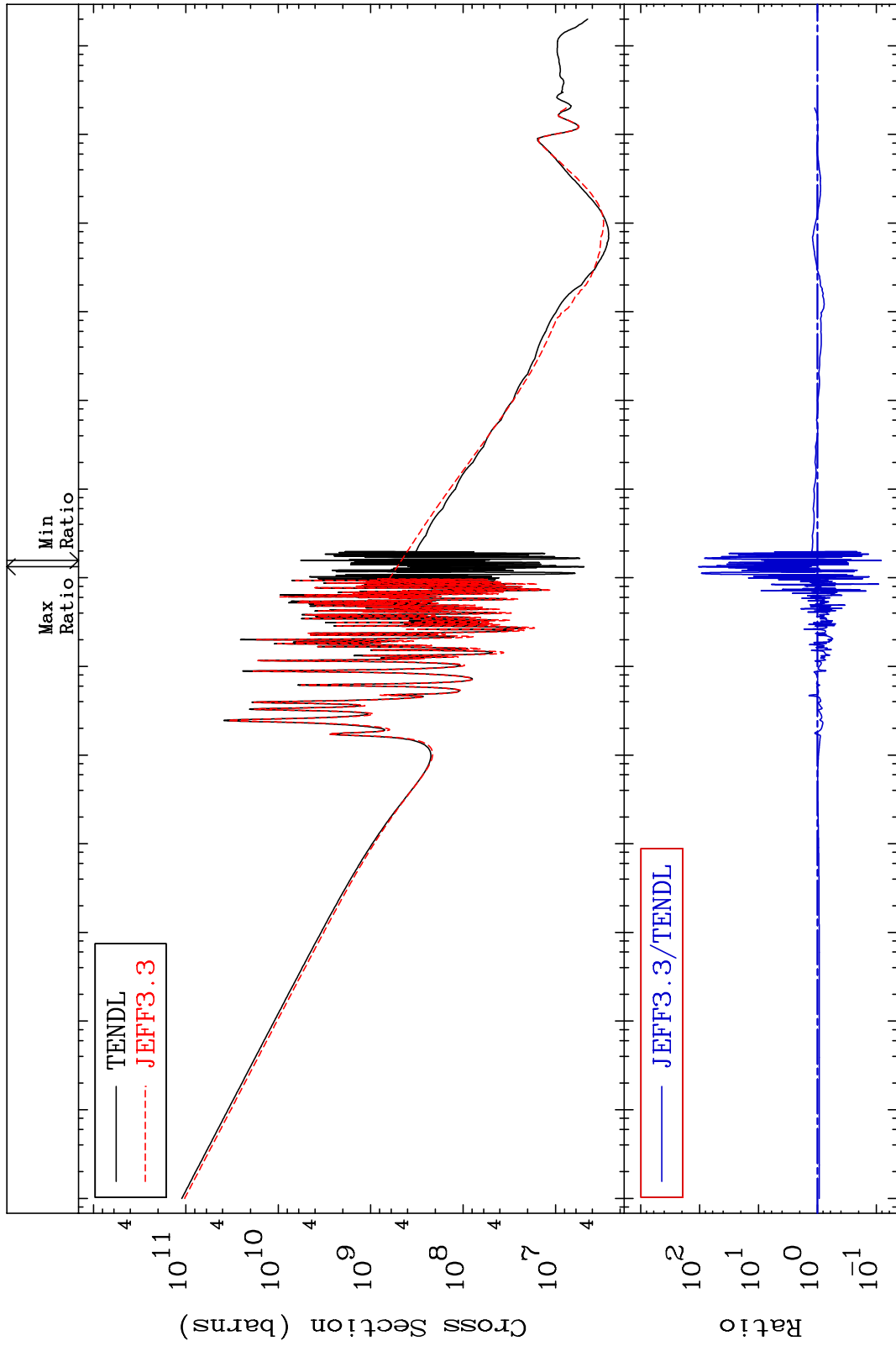


MAT 6331

Total photon (eV-barns)
Cross Section

63-Eu-153

-91.84 To 9999. %



— TENDL
- - - JEFF3.3

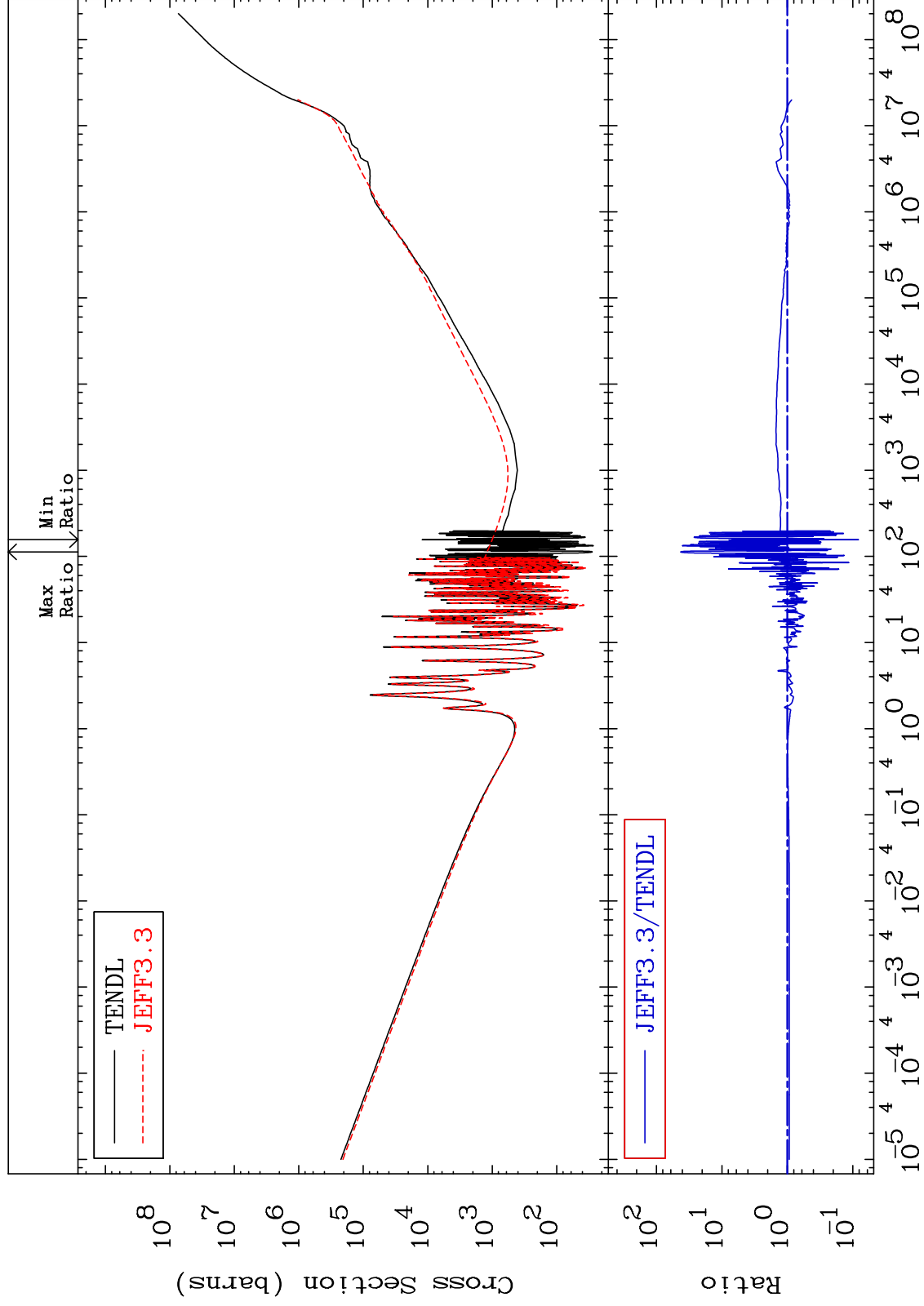
— JEFF3.3/TENDL

Incident Energy (eV) 63-Eu-153

MAT 6331

Total kinematic kerma (high limit)
Cross Section

63-Eu-153
-91.80 To 4191. %



61

Incident Energy (eV)

63-Eu-153

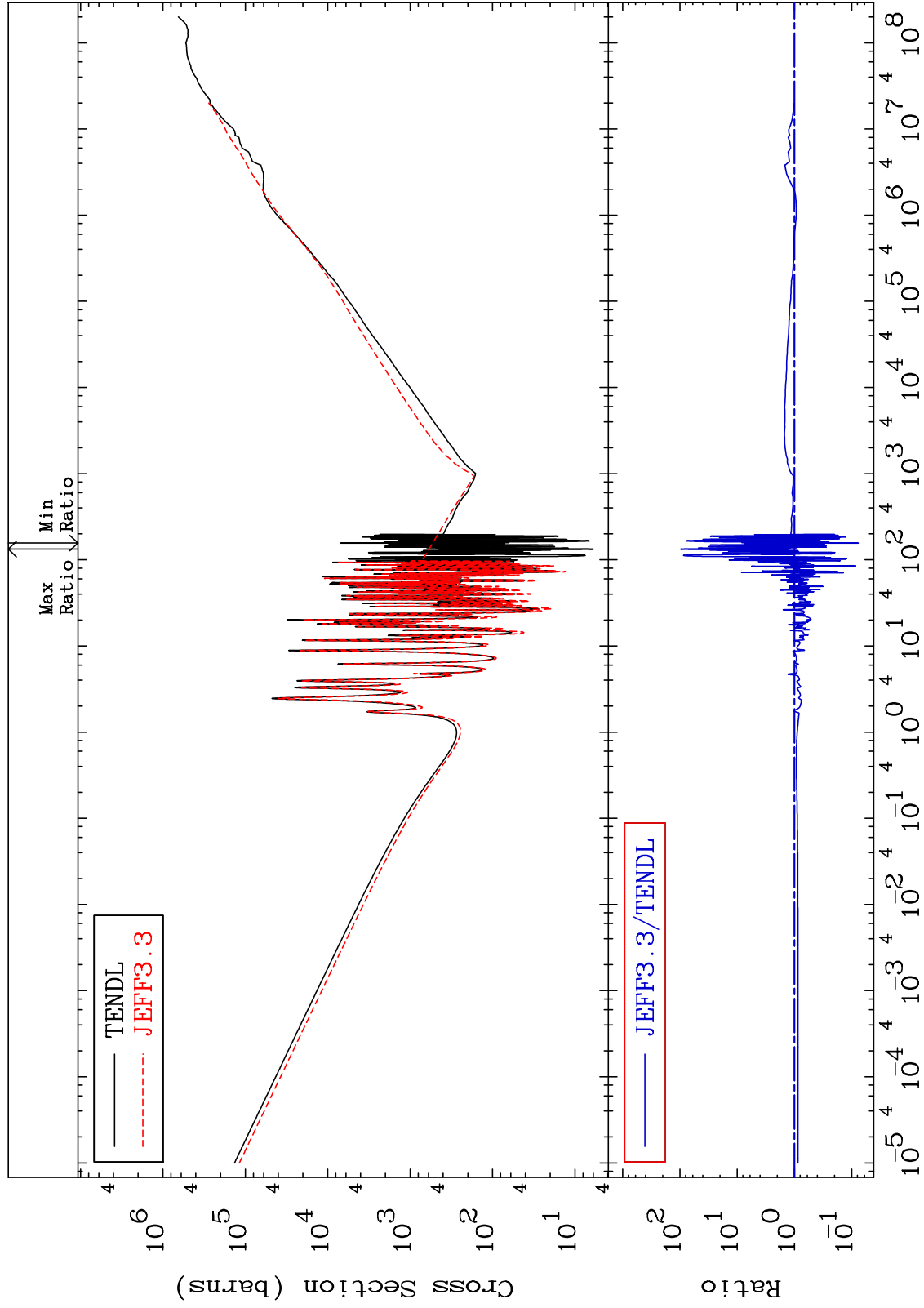
MAT 6331

Dpa total (eV-barns)

63-Eu-153

-92.37 To 9735. %

Cross Section



62

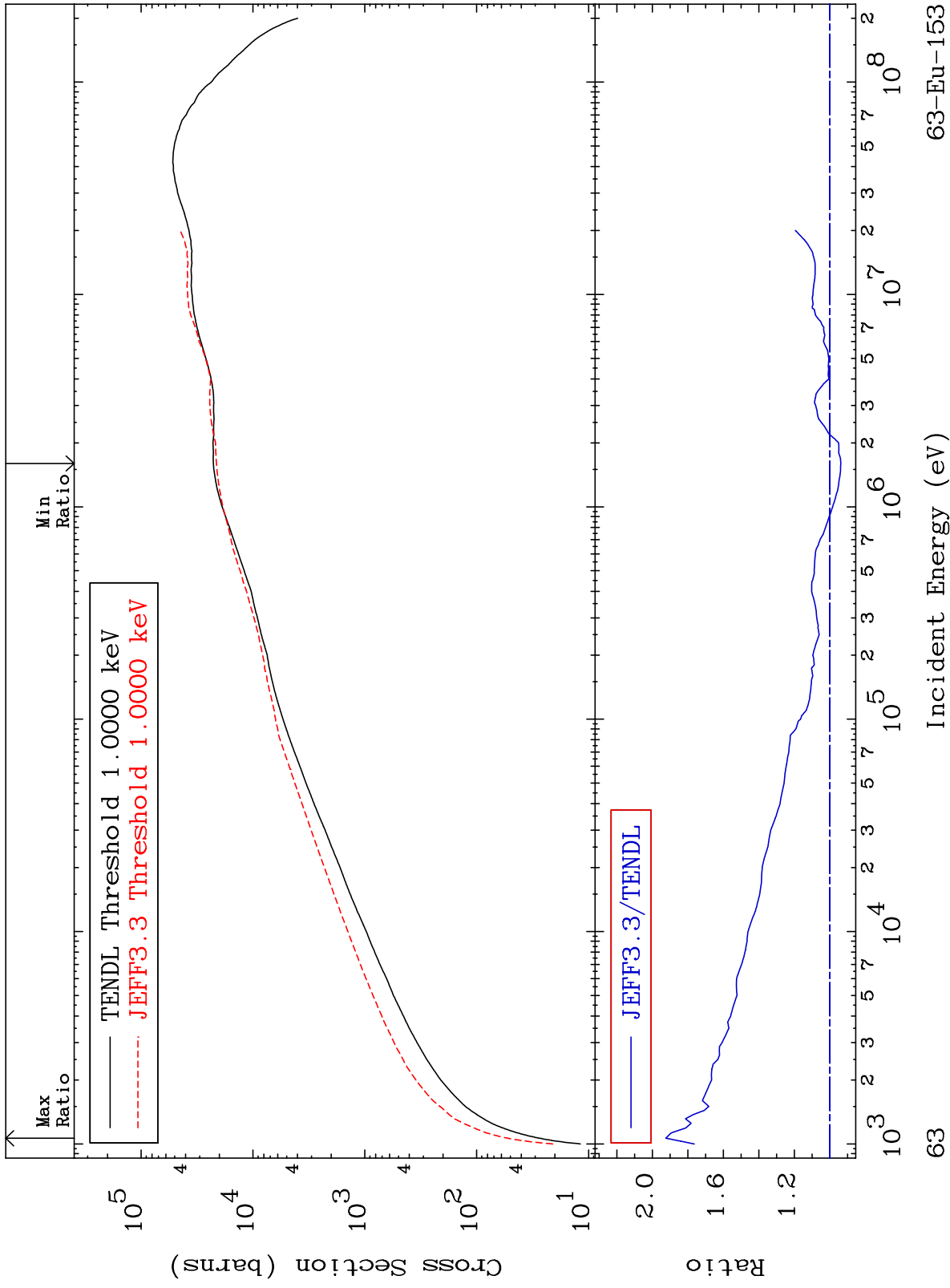
Incident Energy (eV)

63-Eu-153

MAT 6331

Dpa elastic (mt2)
Cross Section

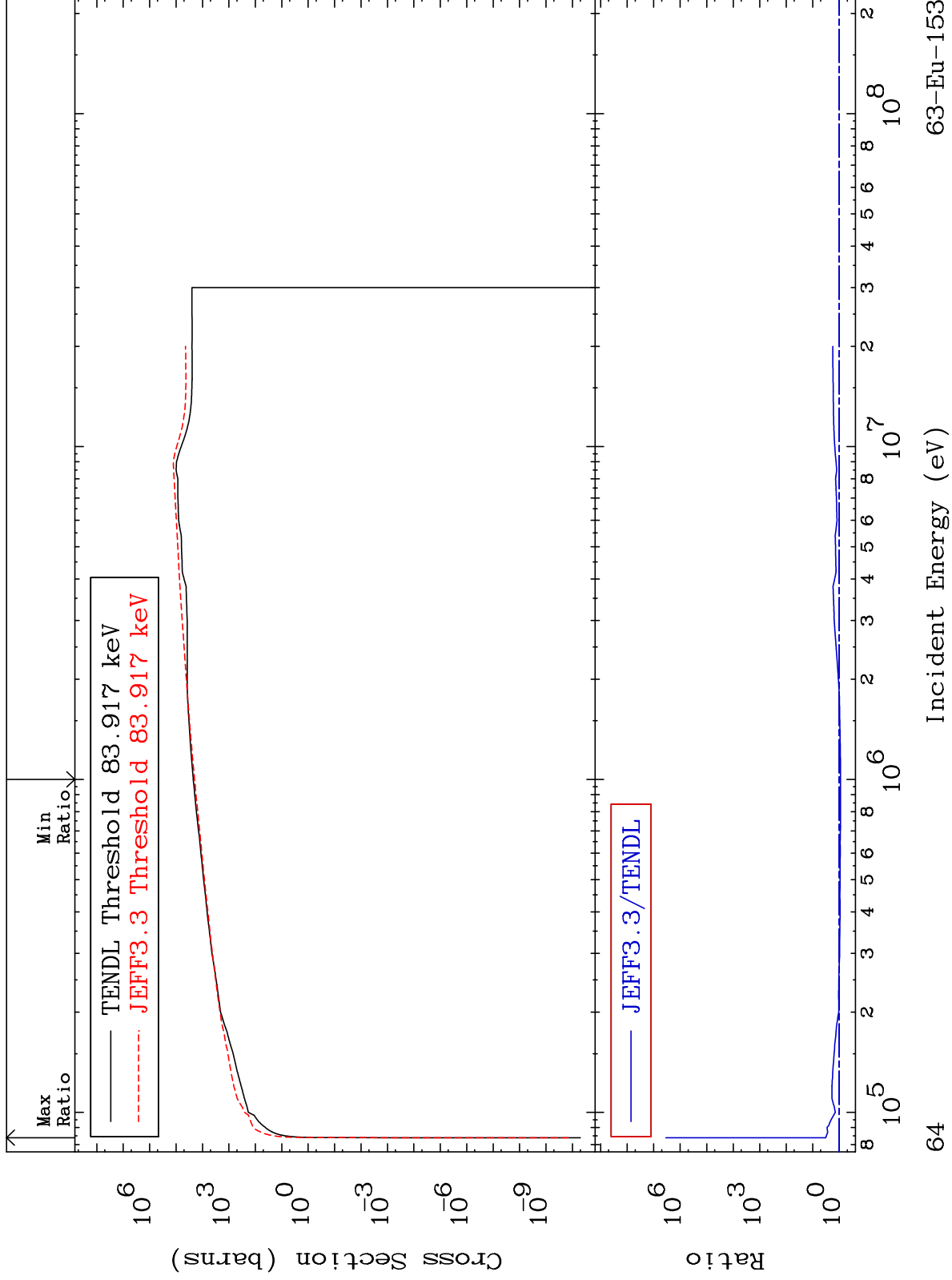
63-Eu-153
-6.153 To 92.38 %



MAT 6331

Dpa inelastic (mt51-91)
Cross Section

63-Eu-153
-10.58 To 9999. %



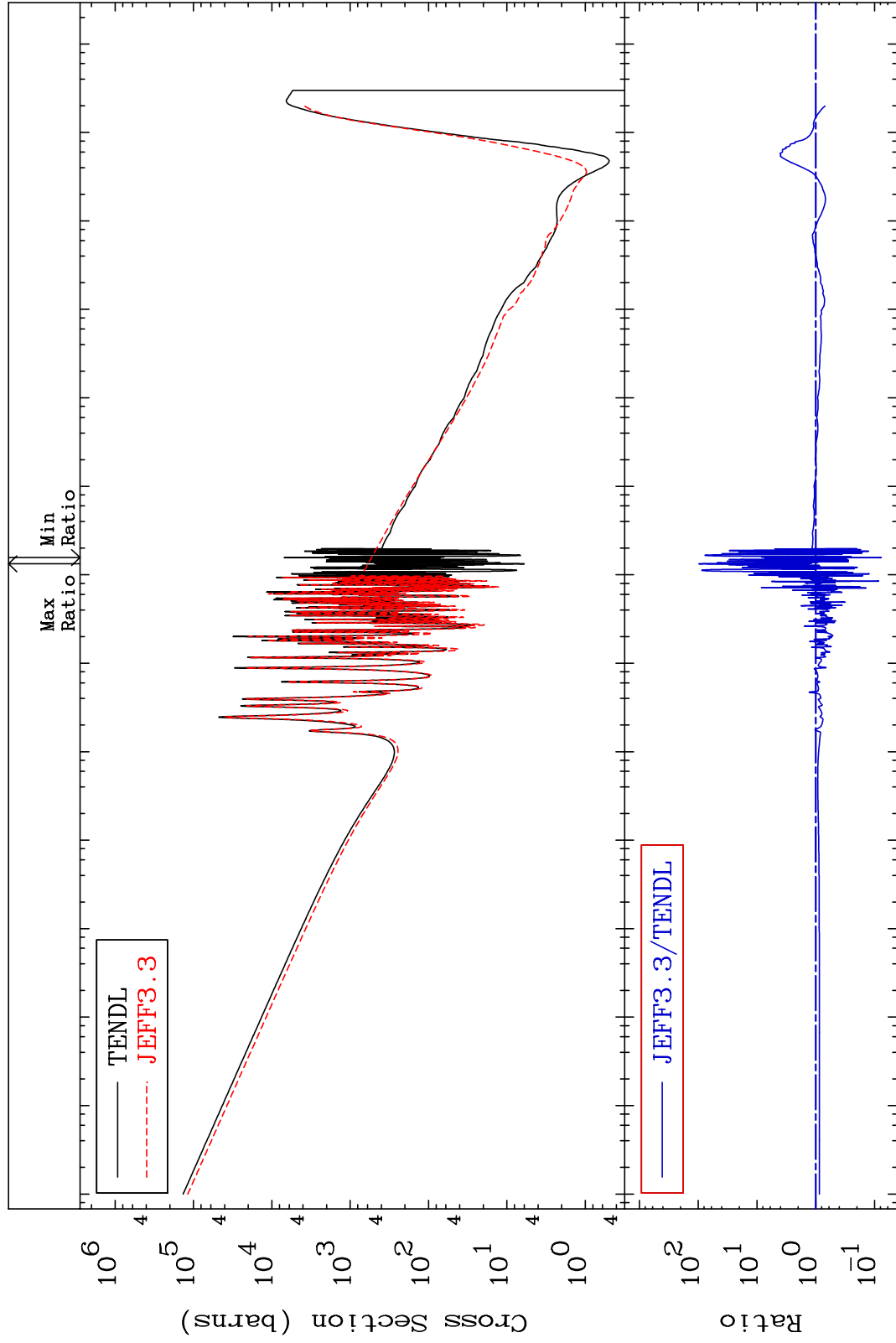
MAT 6331

Dpa disappearance (mt102 -120)

63-Eu-153

-92.37 To 9735. %

Cross Section



65

Incident Energy (eV)

63-Eu-153