

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

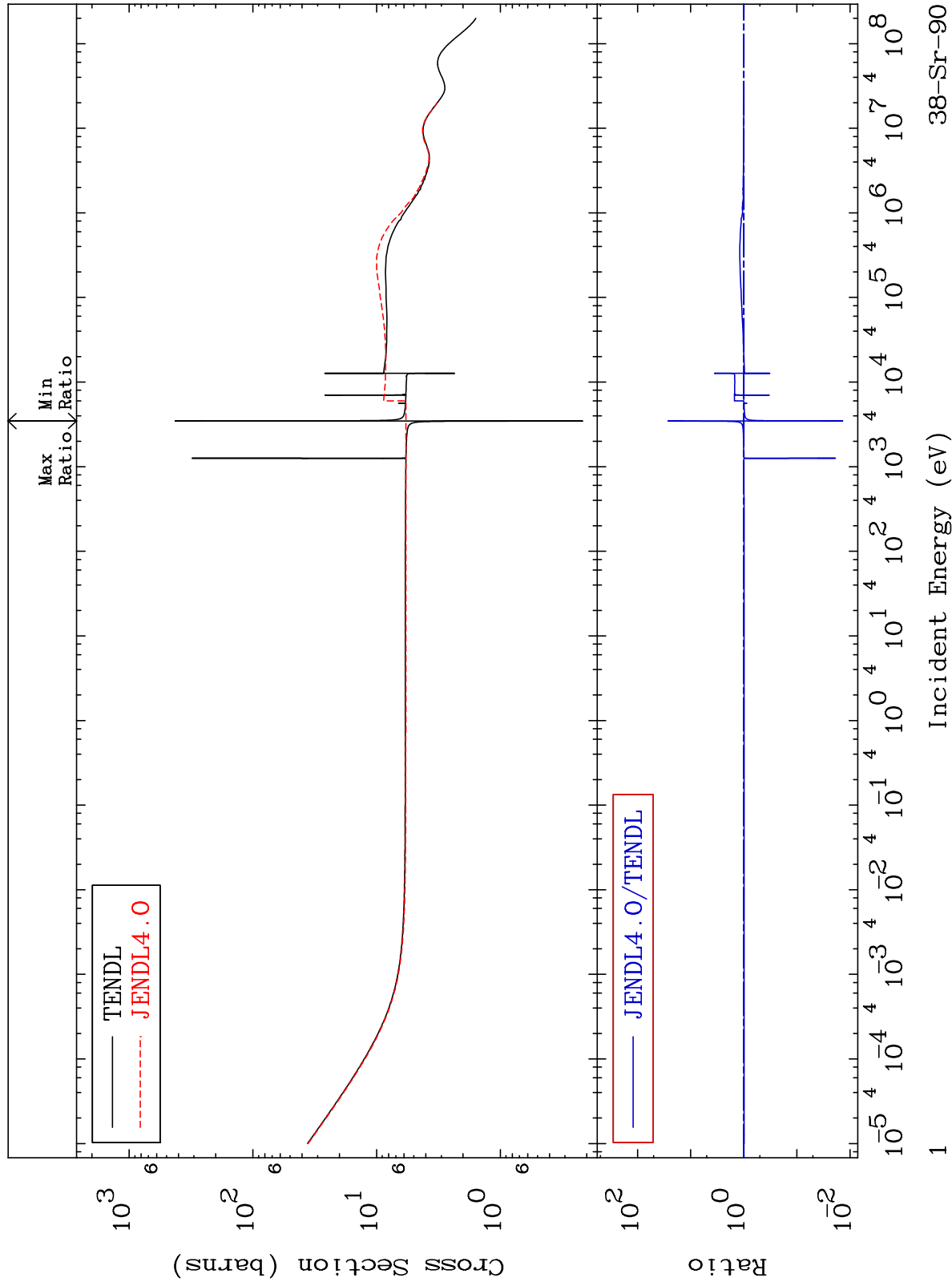
MAT 3843

Total

38-Sr-90

Cross Section

-98.64 To 2576. %



38-Sr-90

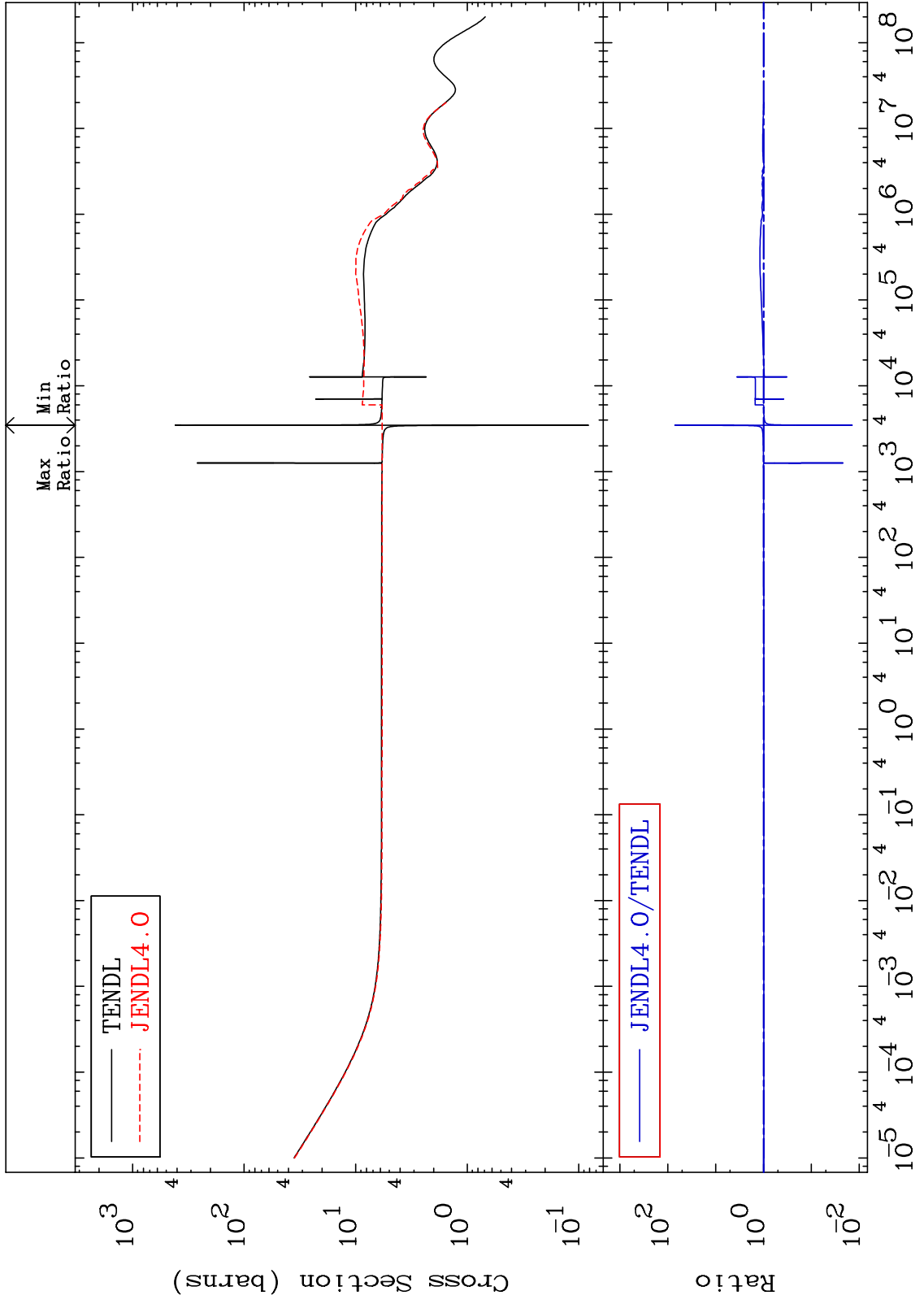
MAT 3843

Elastic

Cross Section

38-Sr-90

-98.60 To 6954. %



Incident Energy (eV)

38-Sr-90

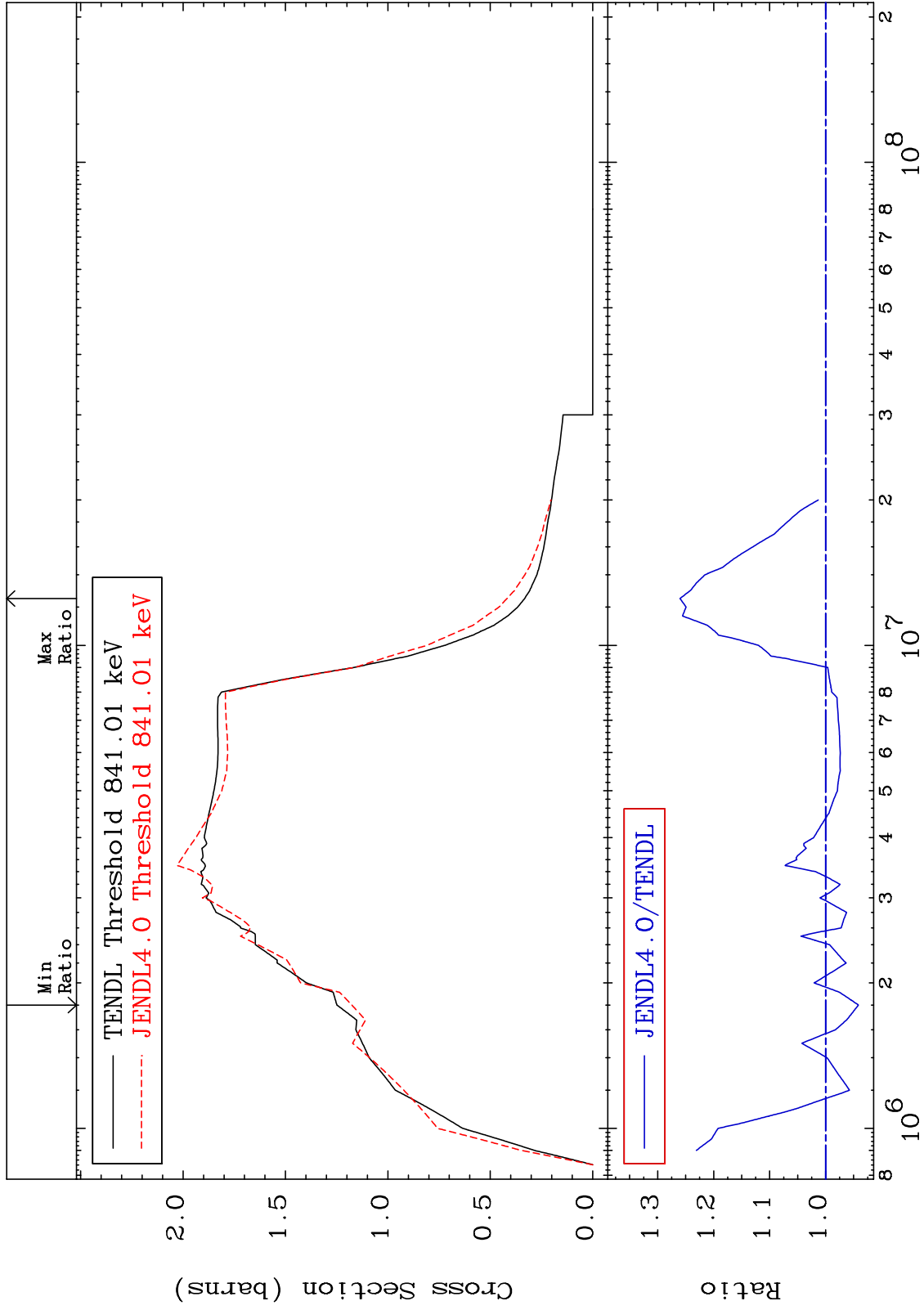
2

MAT 3843

Inelastic
Cross Section

38-Sr-90

-5.846 To 26.01 %



Incident Energy (eV)

38-Sr-90

3

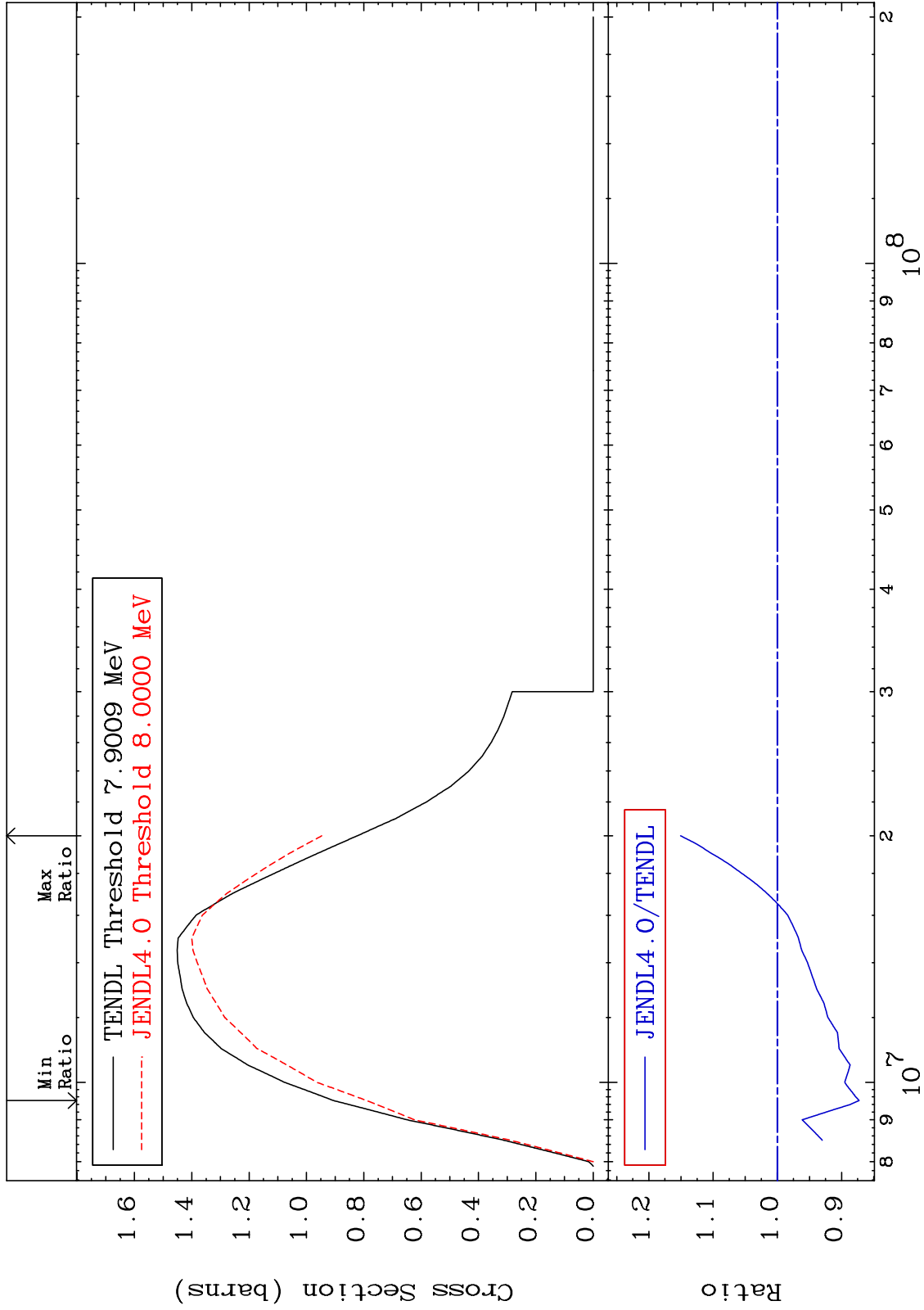
MAT 3843

(n,2n)

38-Sr-90

Cross Section

-12.73 To 15.05 %



38-Sr-90

Incident Energy (eV)

4

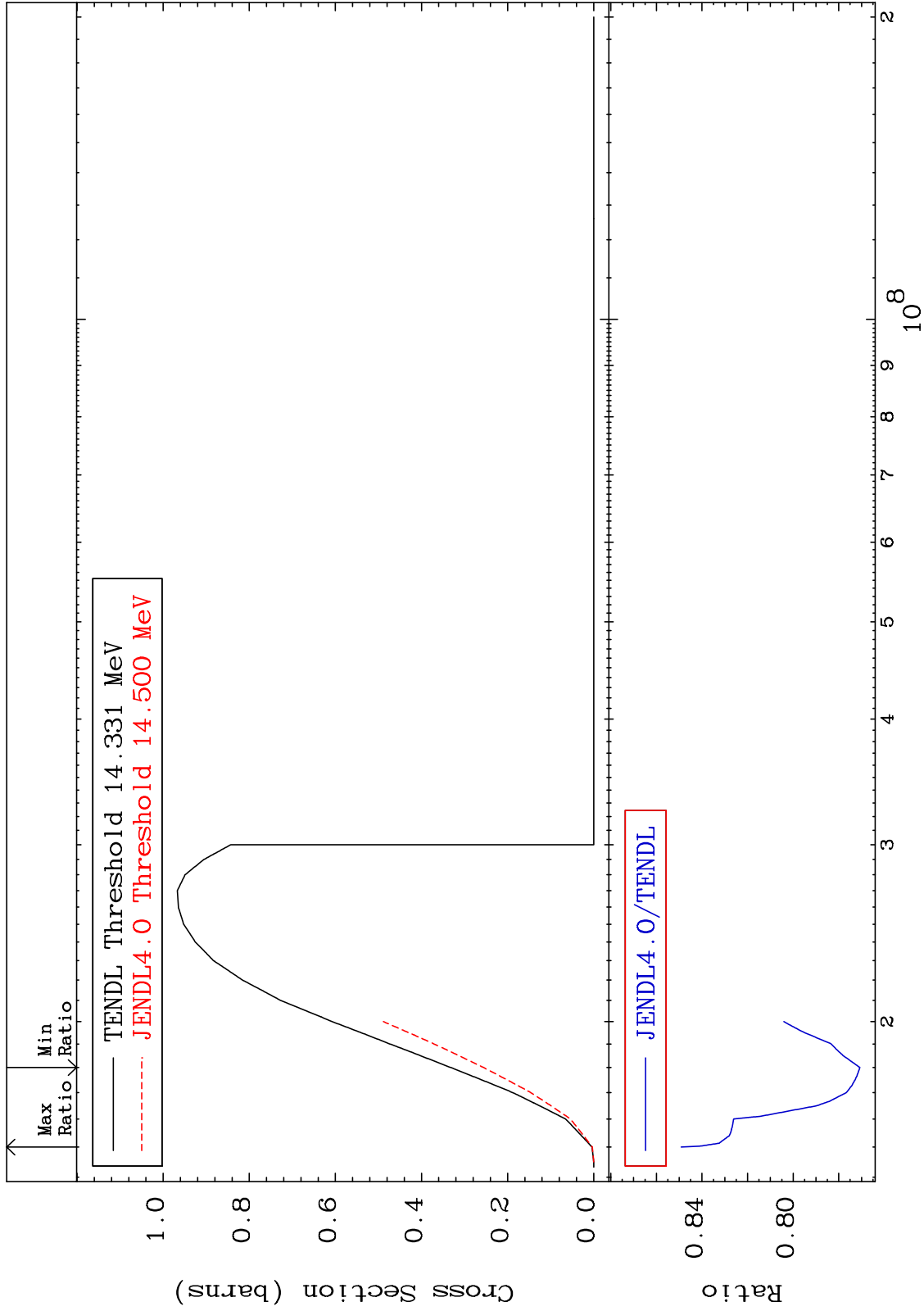
MAT 3843

(n,3n)

38-Sr-90

Cross Section

-22.93 To -15.09%



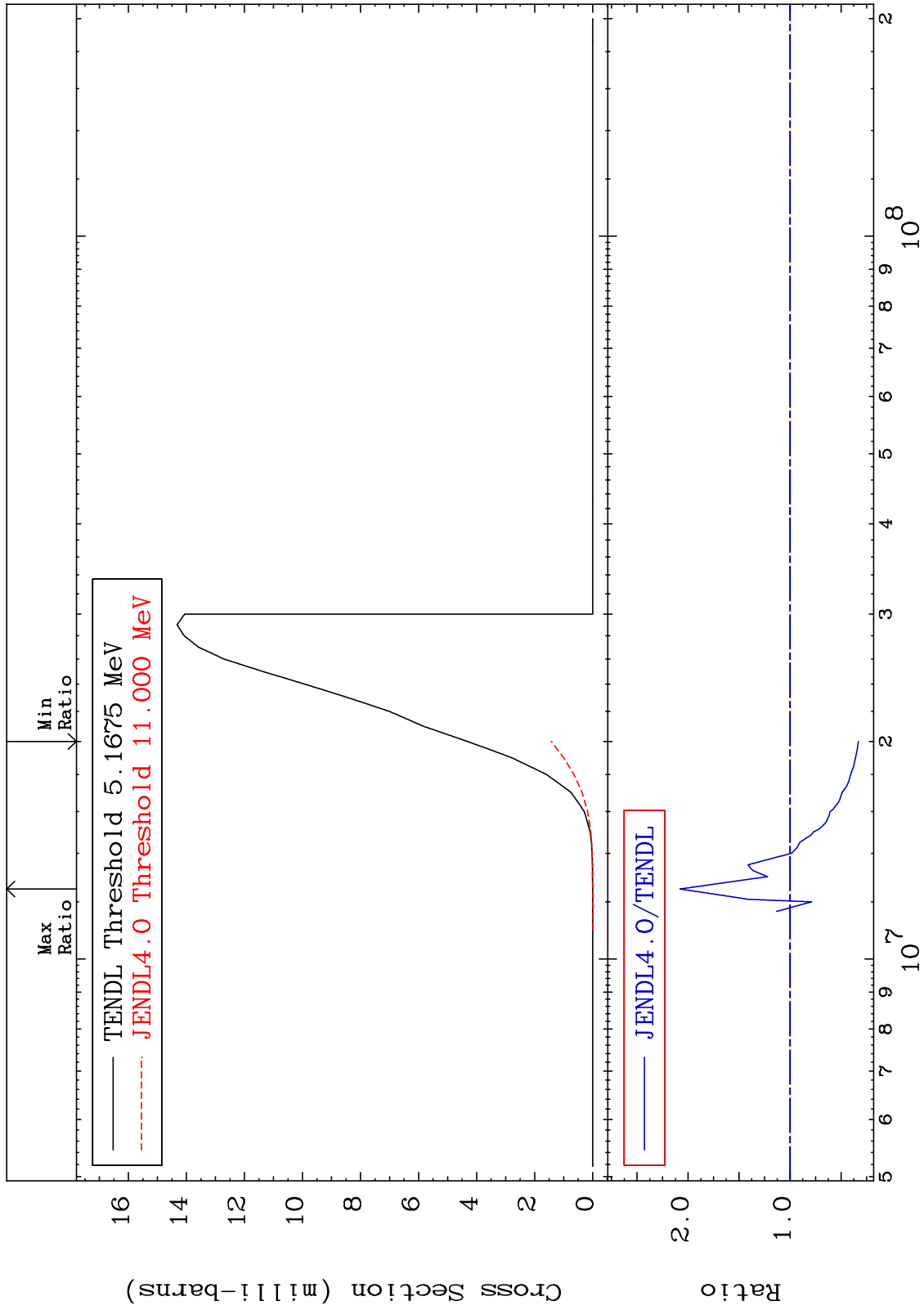
MAT 3843

(n,n') α

38-Sr-90

Cross Section

-66.99 To 107.9 %



6

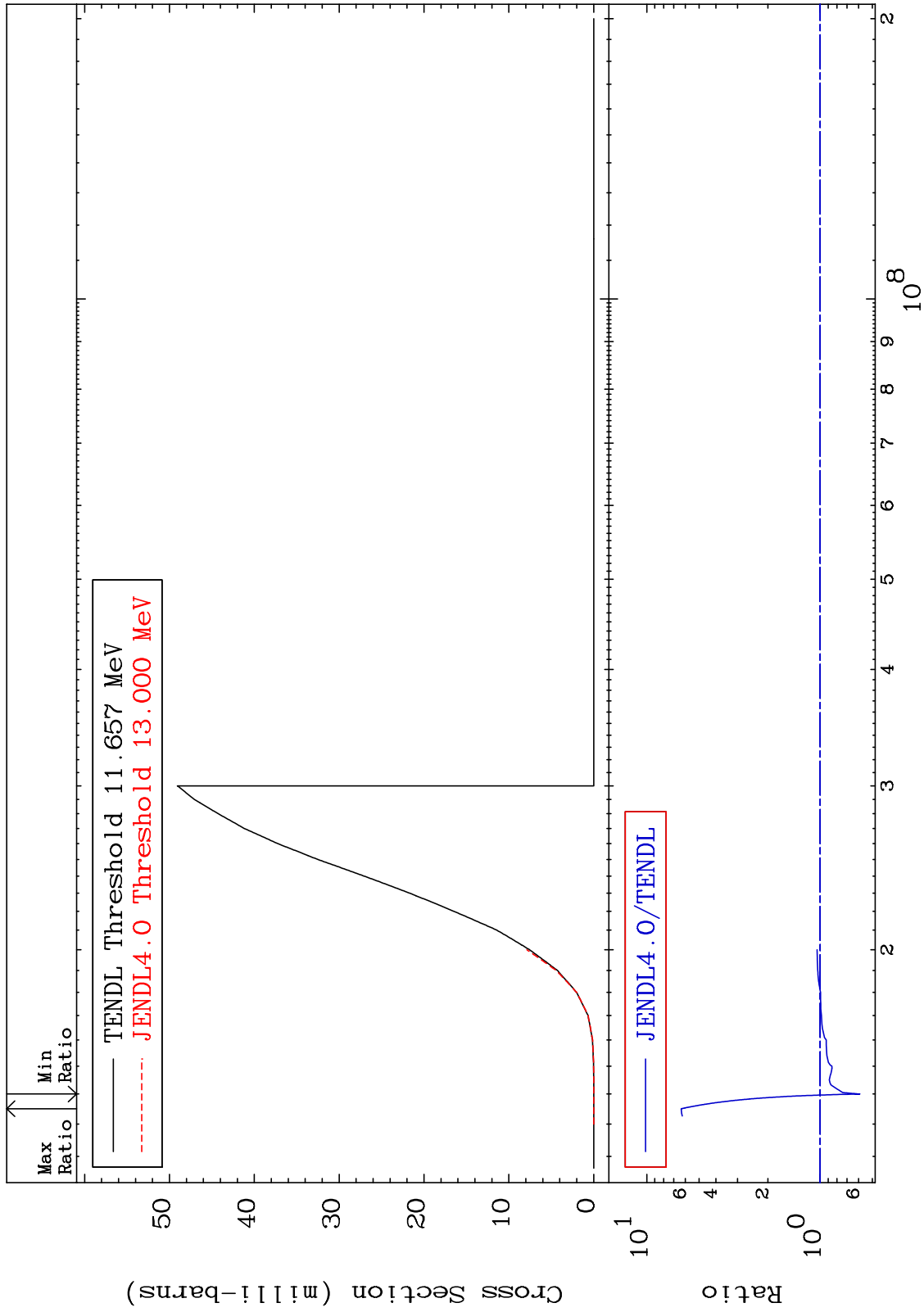
Incident Energy (eV)

38-Sr-90

MAT 3843

(n,n') p
Cross Section

38-Sr-90
-41.03 To 533.2 %



38-Sr-90

7

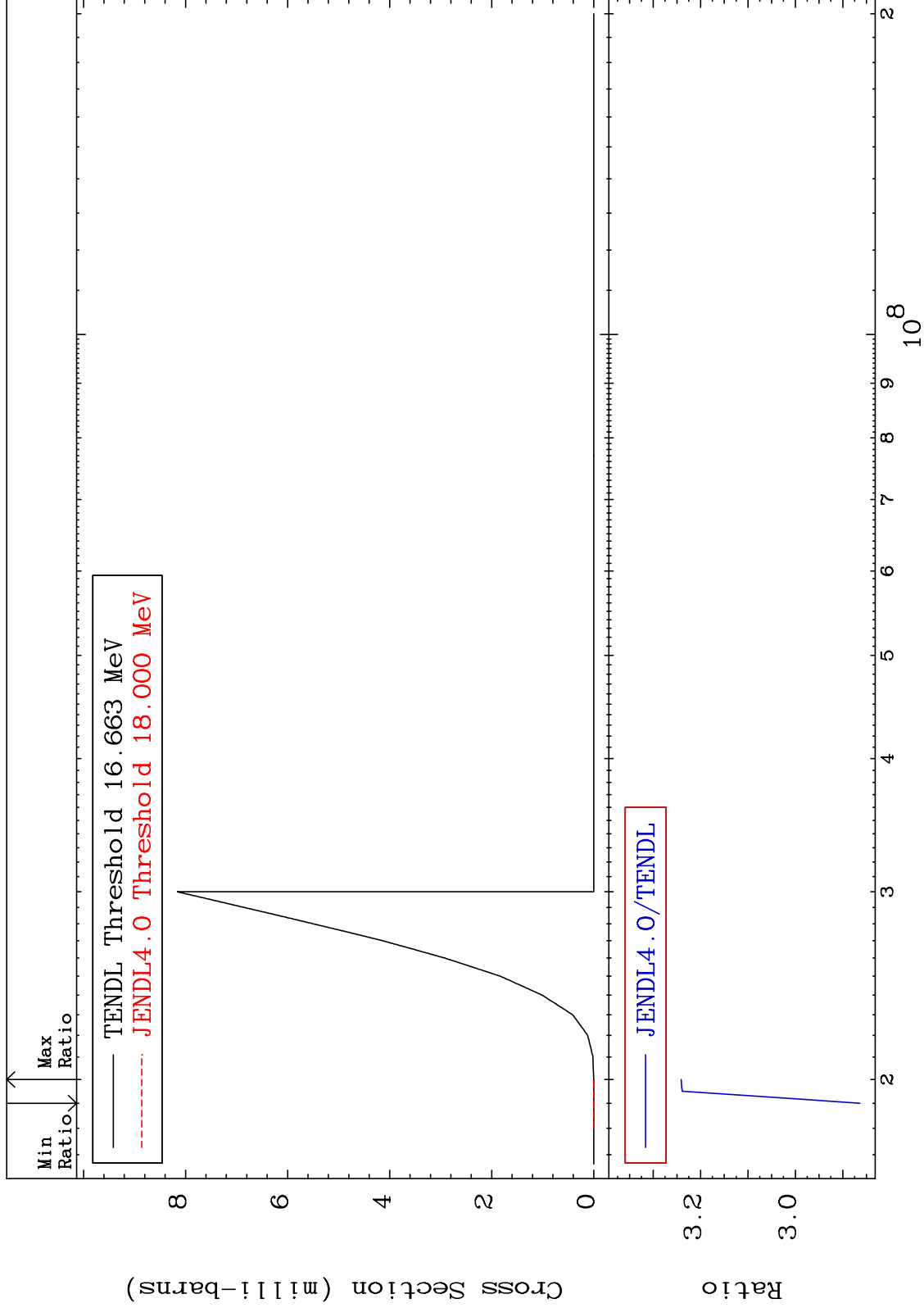
MAT 3843

(n,n') d

38-Sr-90

Cross Section

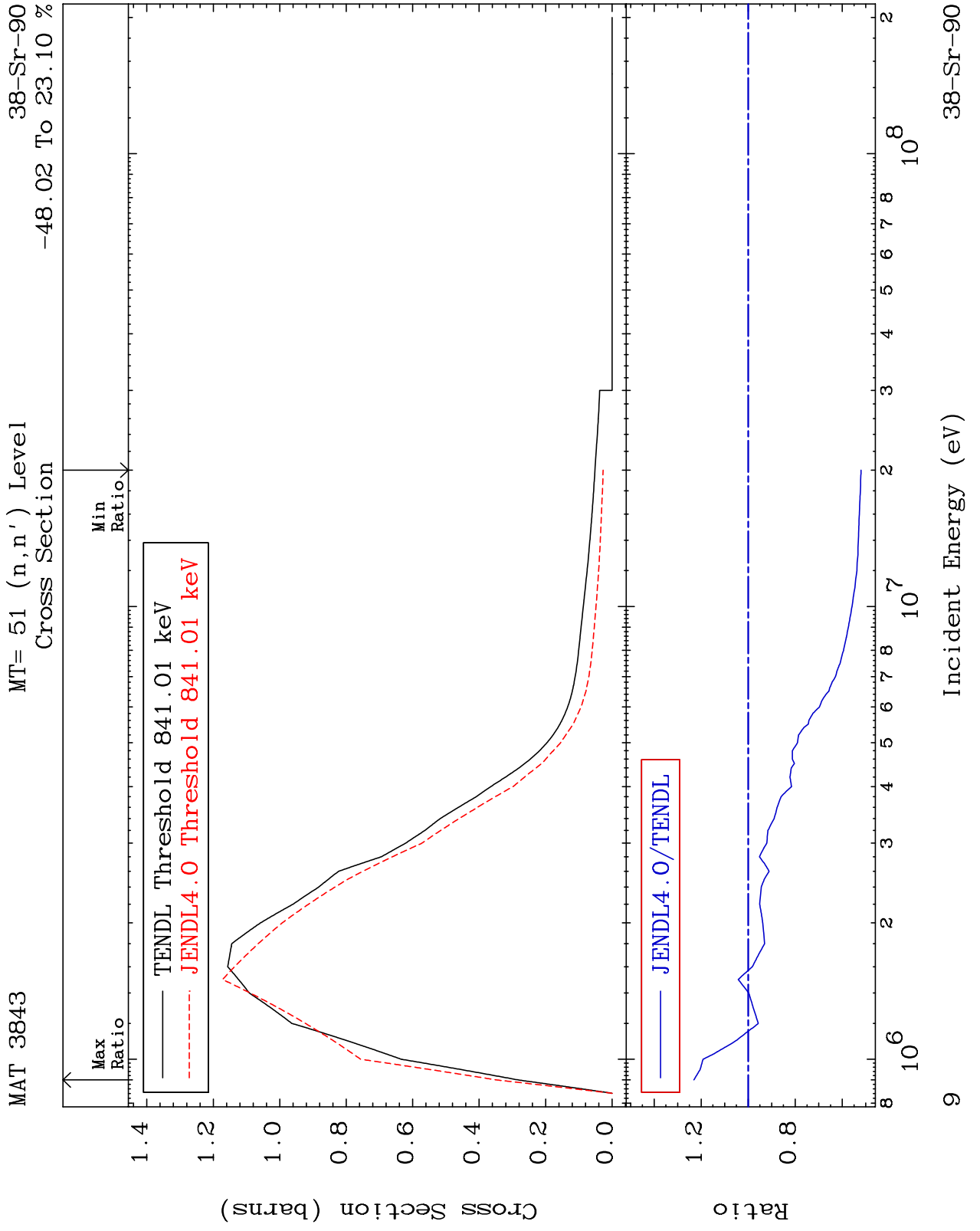
186.4 To 224.1 %



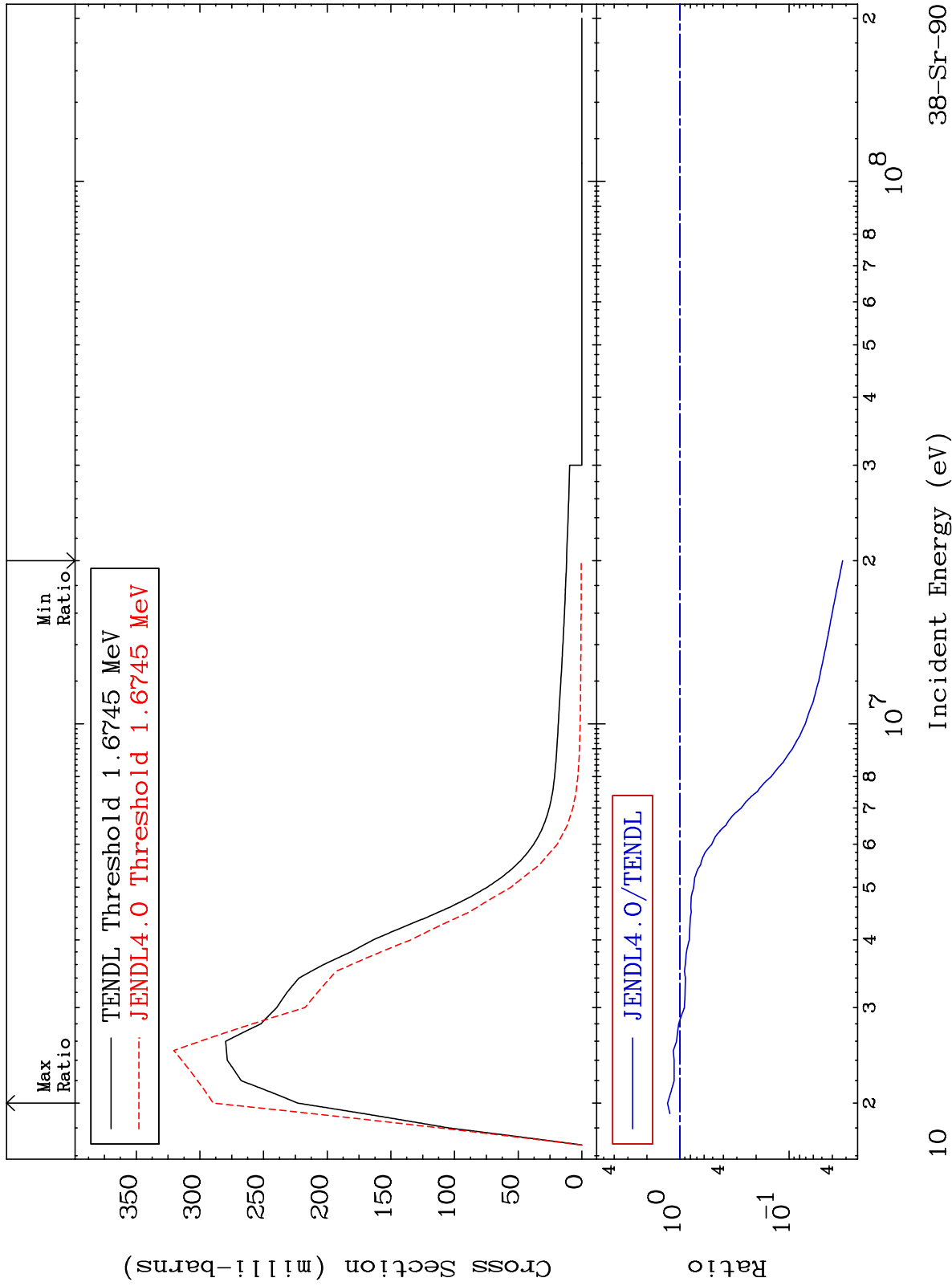
8

38-Sr-90

38-Sr-90



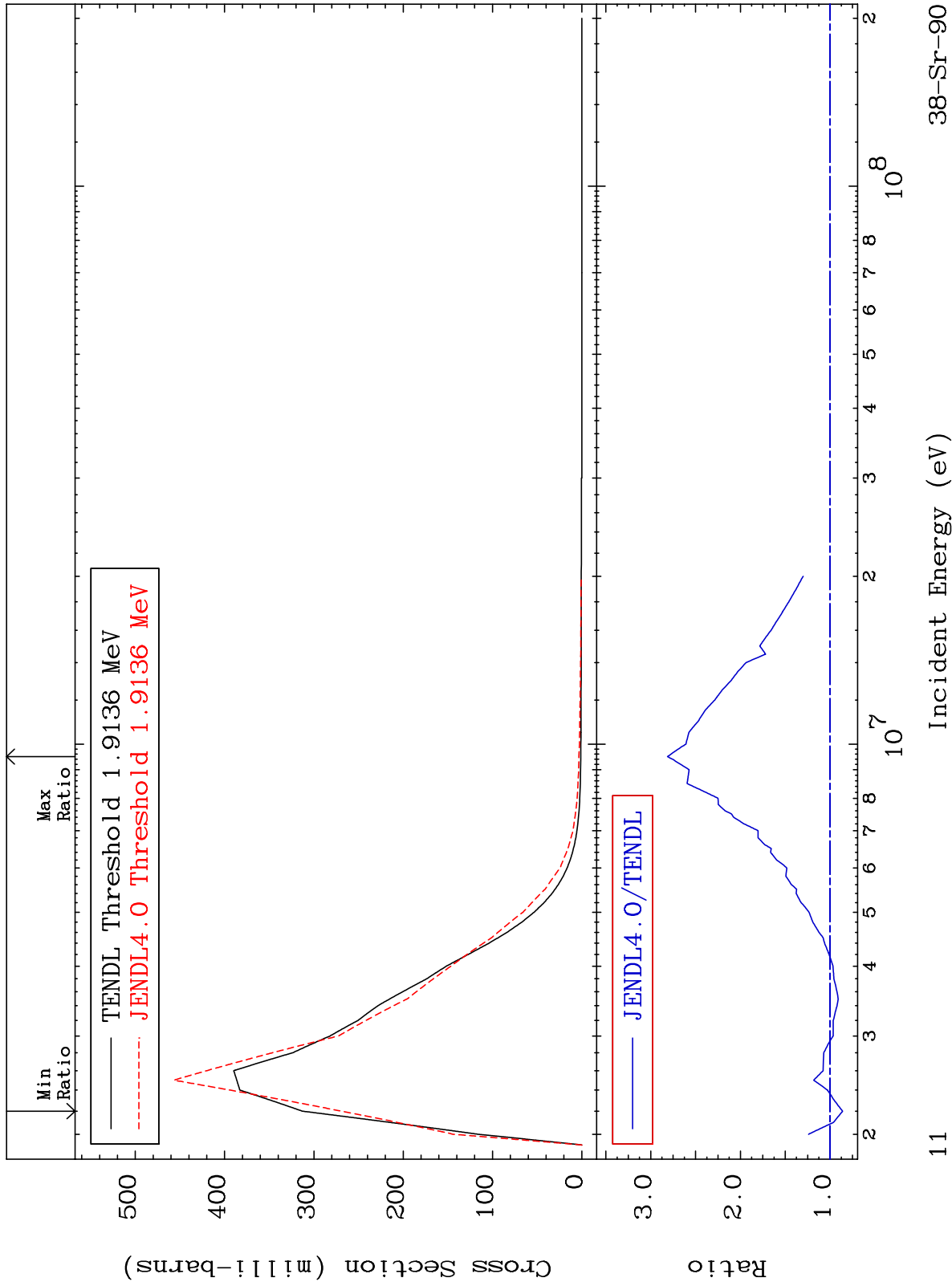
MAT 3843 MT= 52 (n,n') Level
Cross Section 38-Sr-90
-96.78 To 29.69 %



38-Sr-90

10

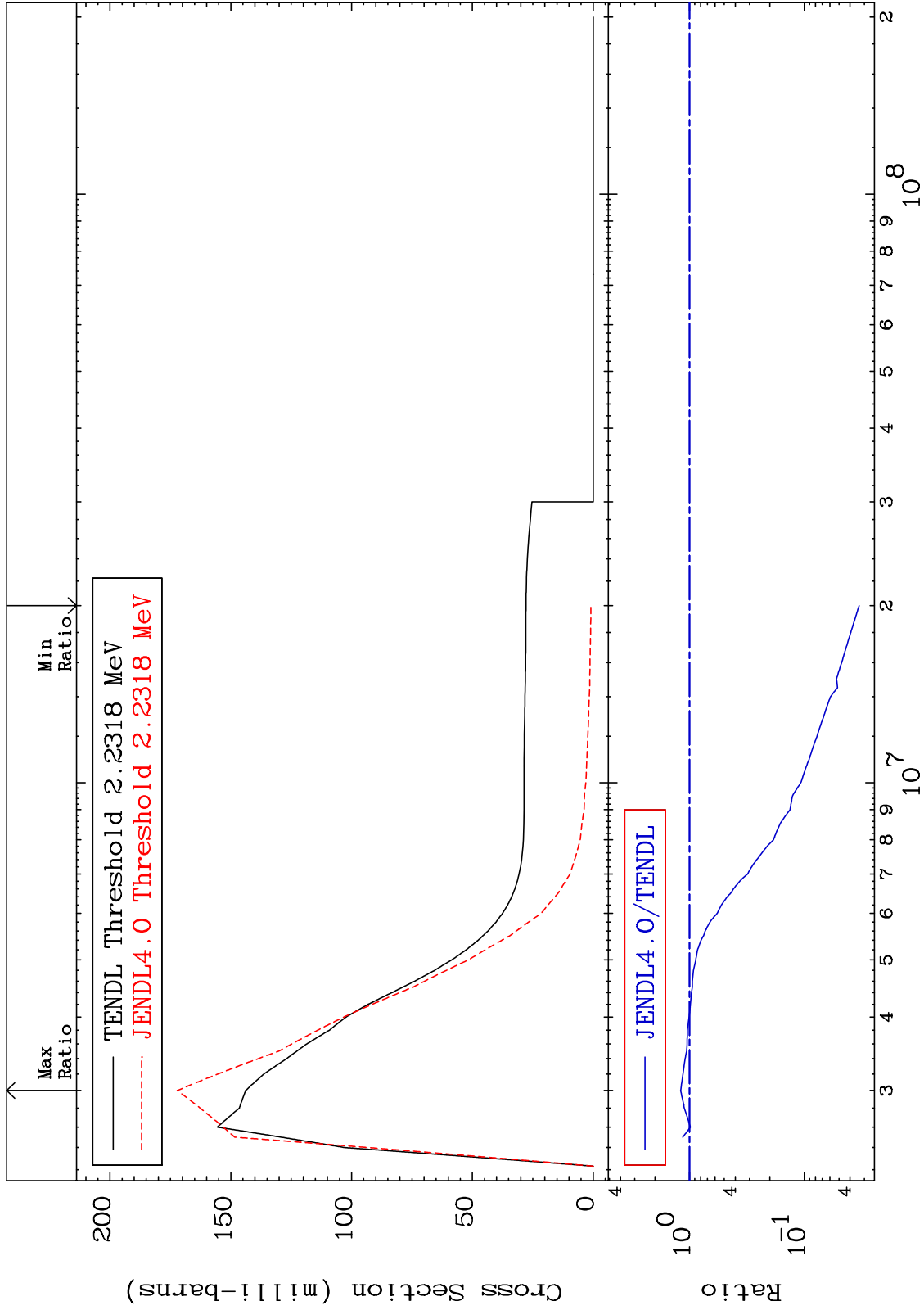
MAT 3843 MT= 53 (n,n') Level Cross Section 38-Sr-90
 -14.05 To 181.3 %



MAT 3843

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

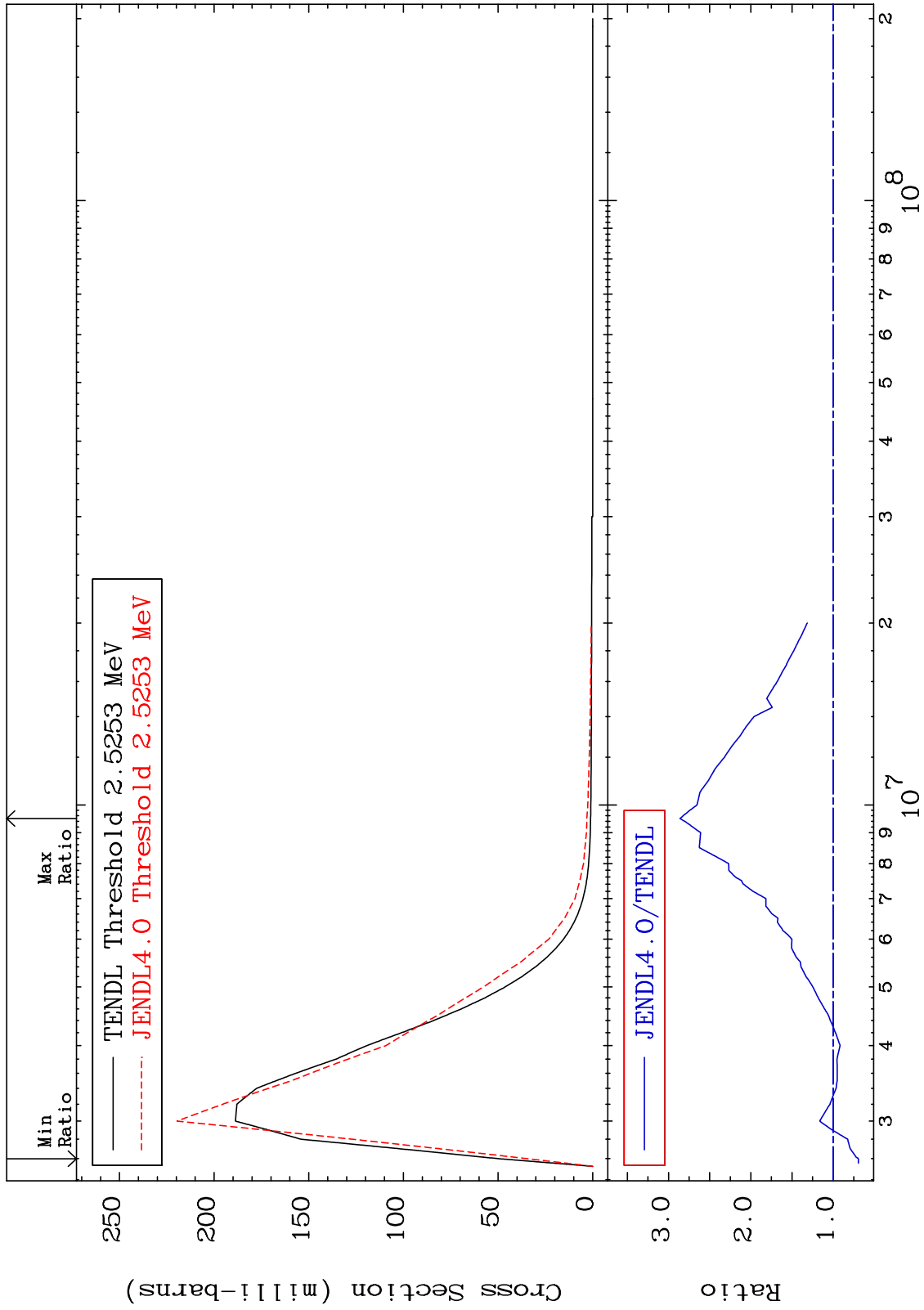
38-Sr-90
-96.67 To 19.67 %



MAT 3843

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

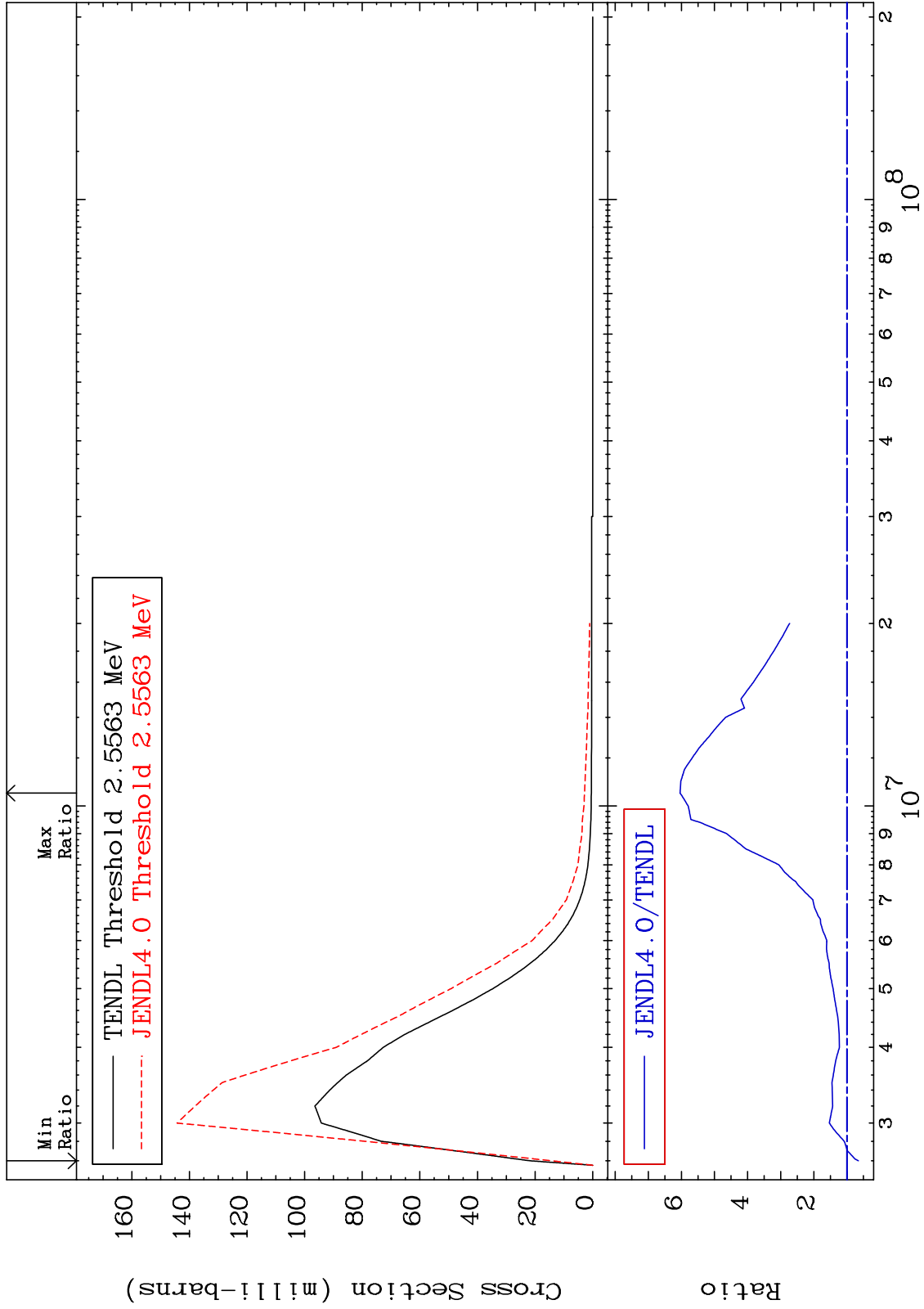
38-Sr-90
-30.71 To 186.1 %



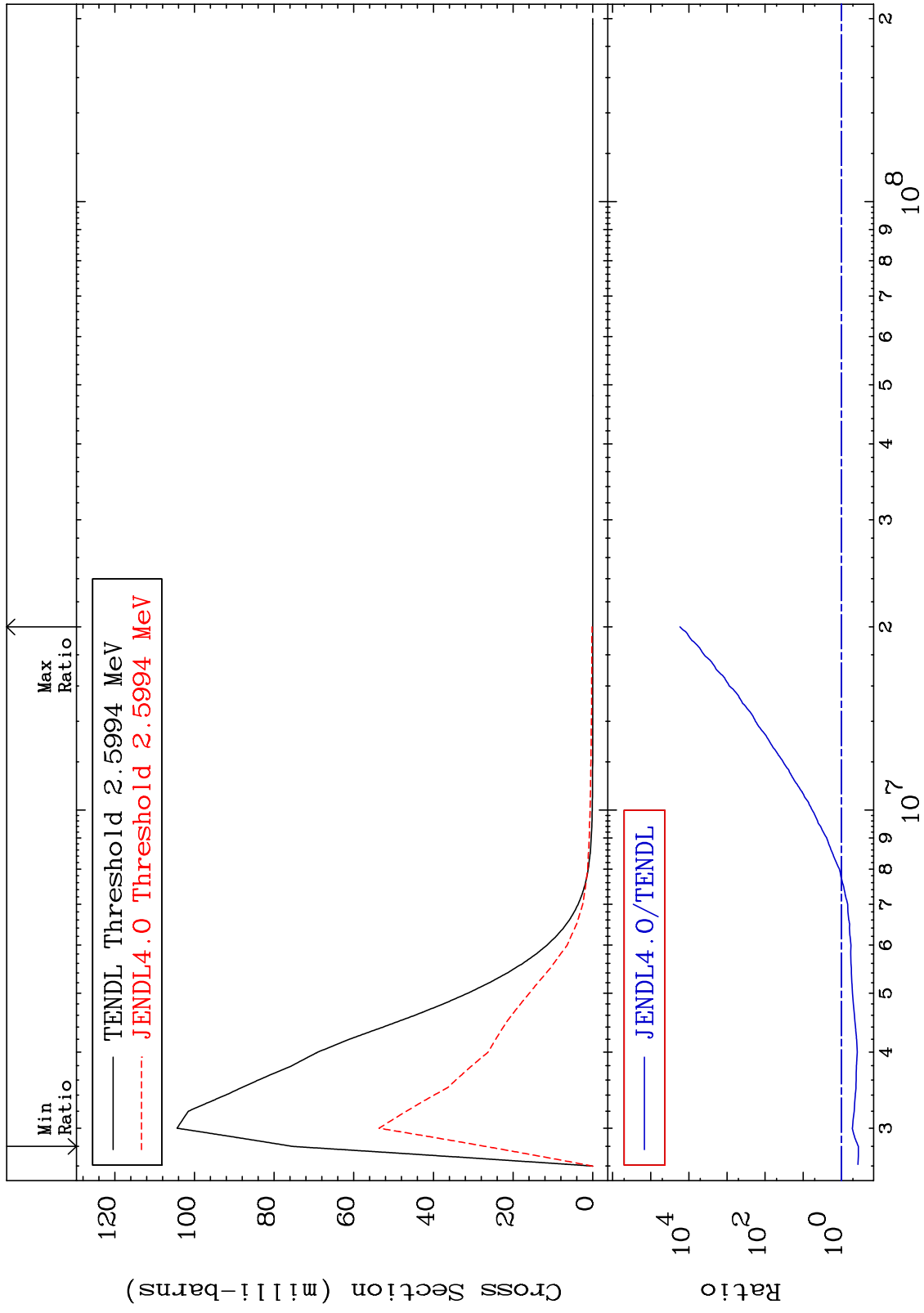
MAT 3843

MT= 56 (n,n') Level
Cross Section

38-Sr-90
-34.73 To 504.2 %



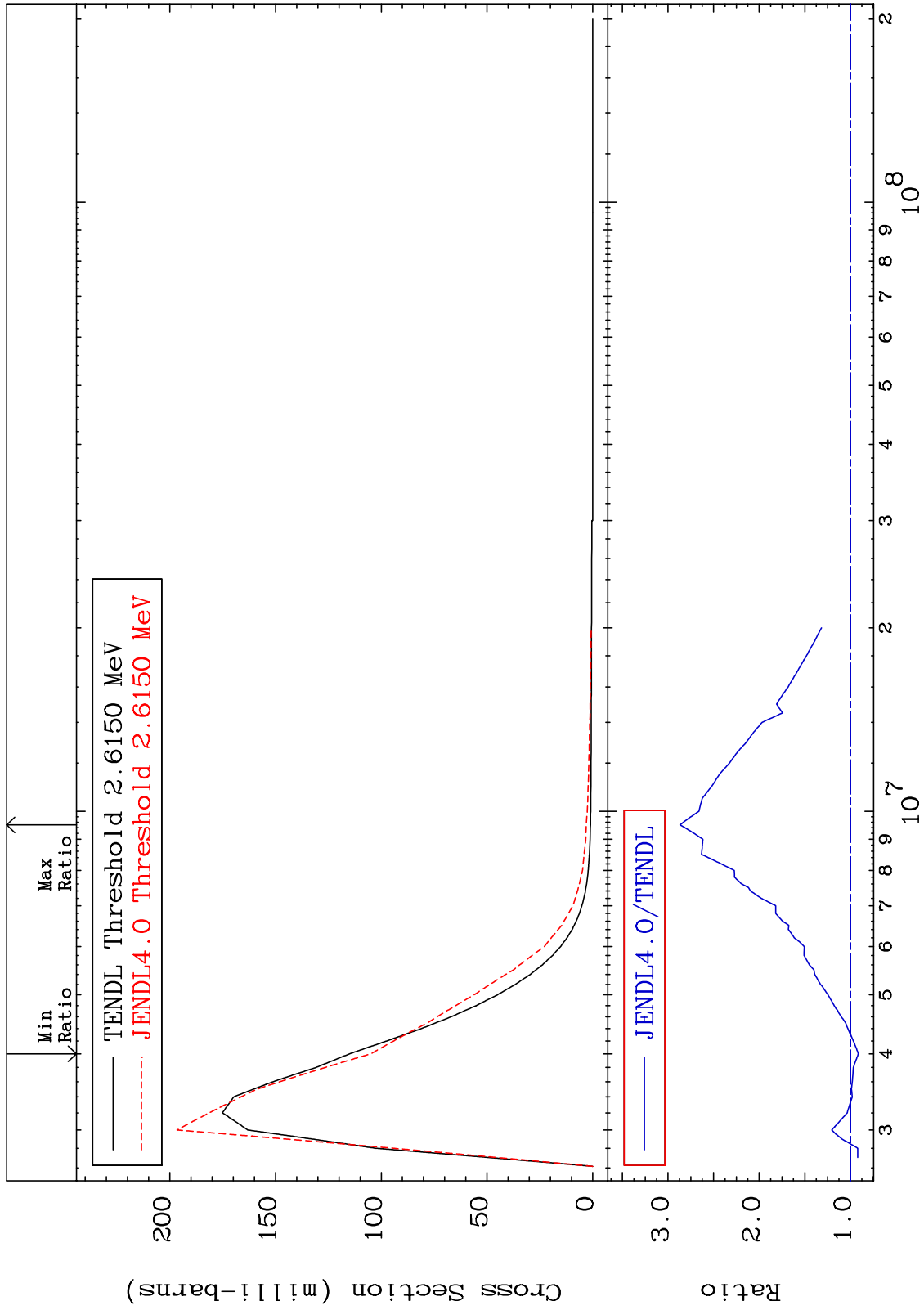
MAT 3843 MT= 57 (n,n') Level Cross Section 38-Sr-90
 -64.33 To 9999. %



MAT 3843

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

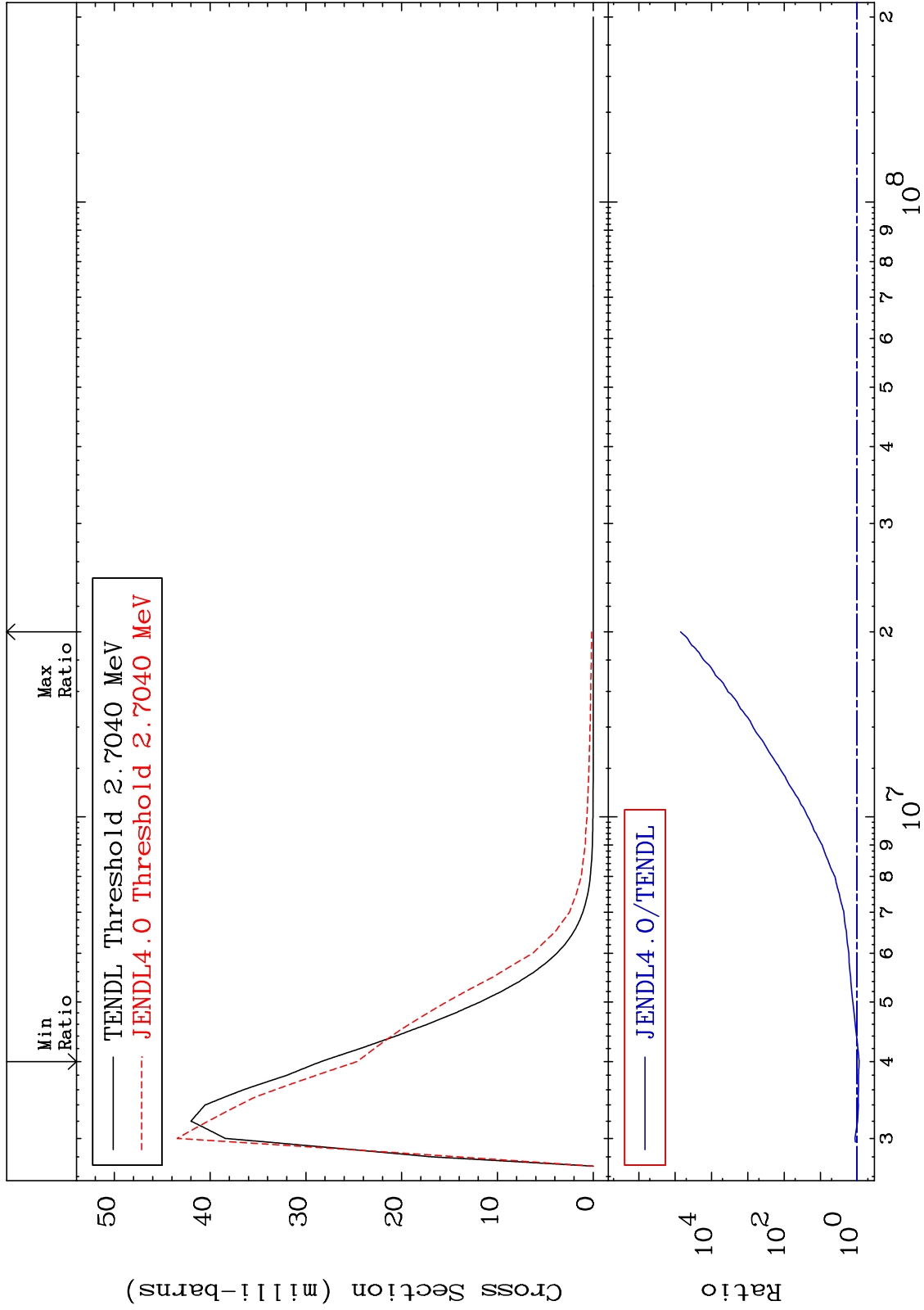
38-Sr-90
-8.771 To 186.9 %



MAT 3843

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

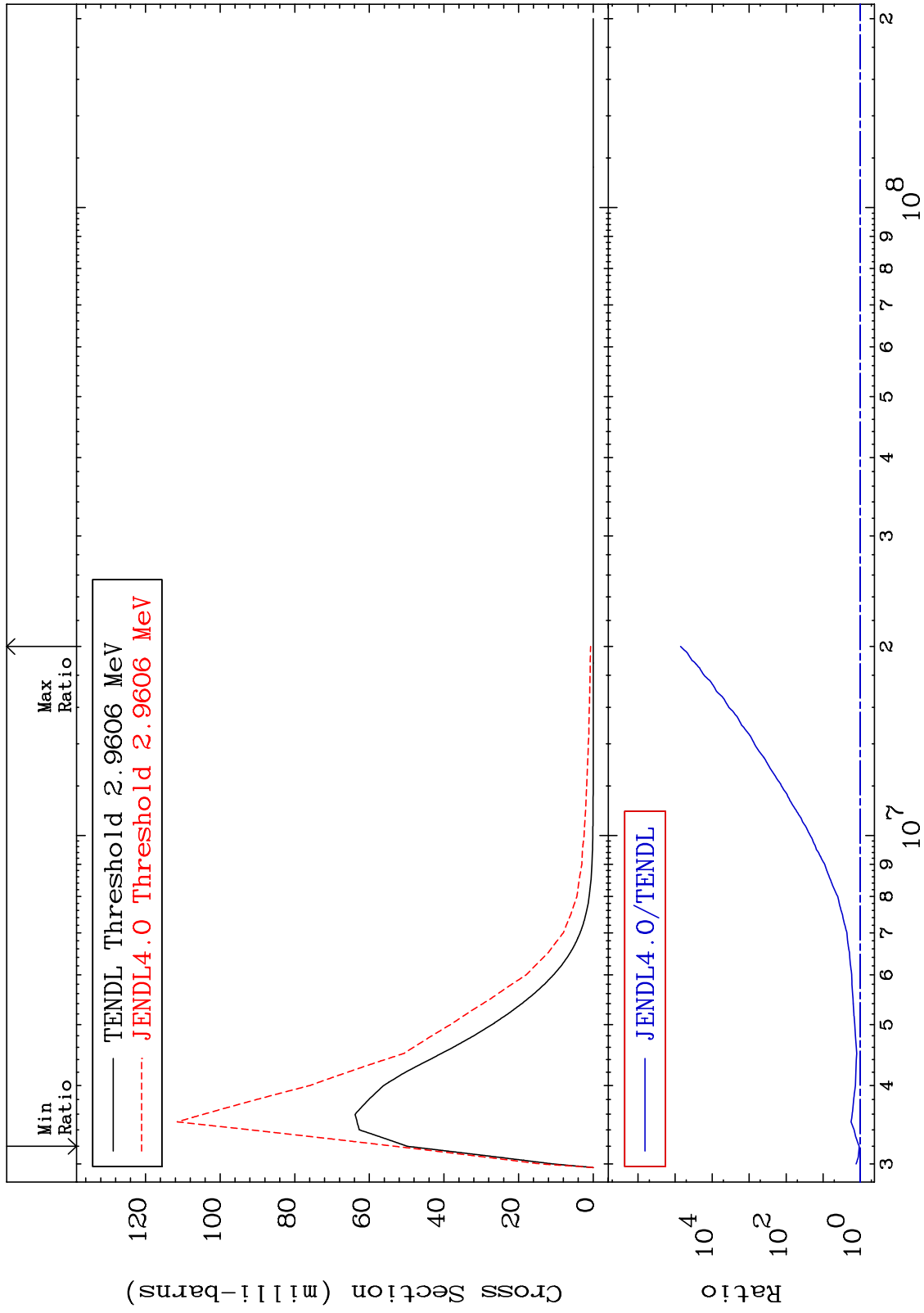
38-Sr-90
-13.30 To 9999. %



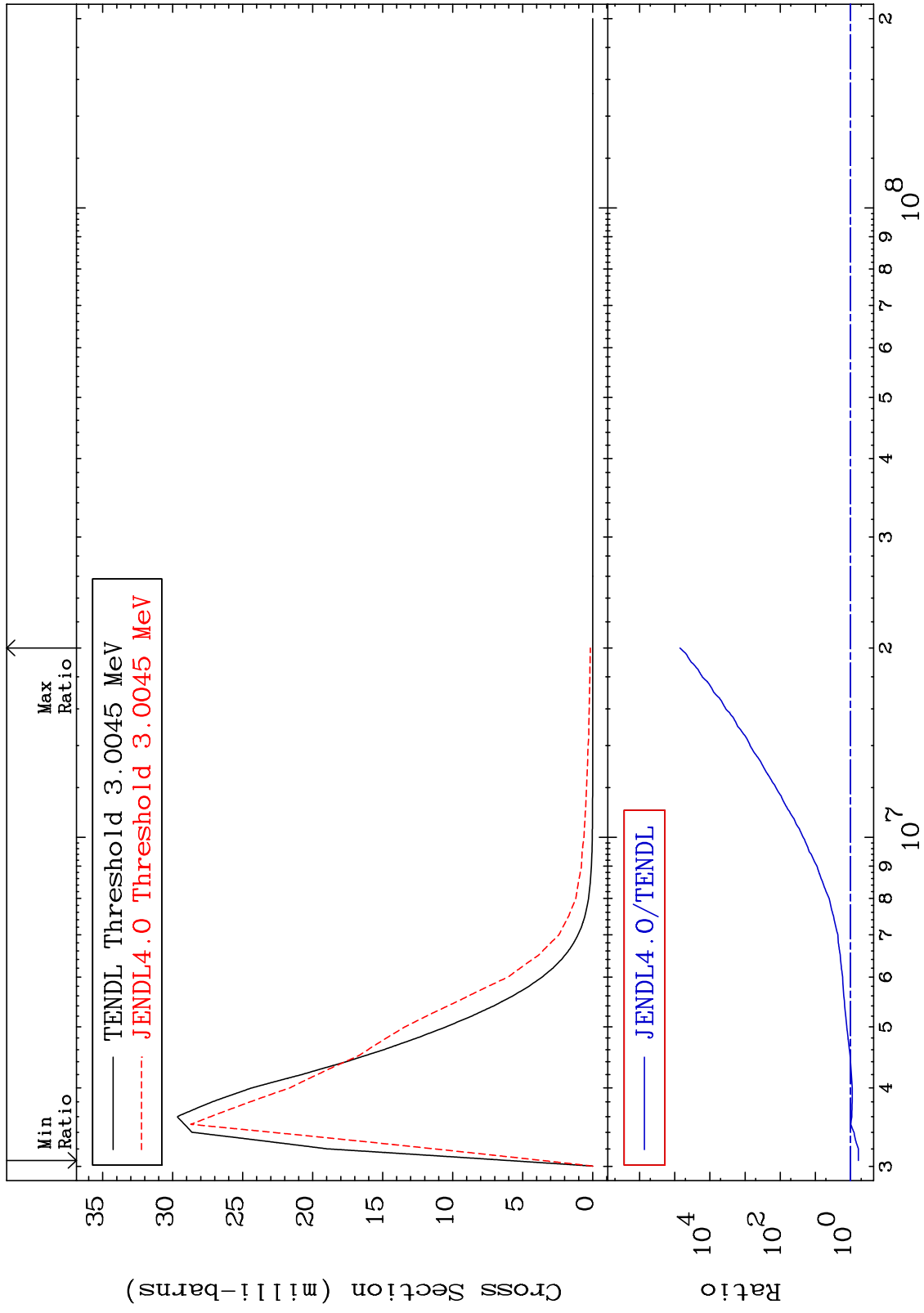
MAT 3843

MT= 60 (n,n') Level
Cross Section

38-Sr-90
6.571 To 9999. %



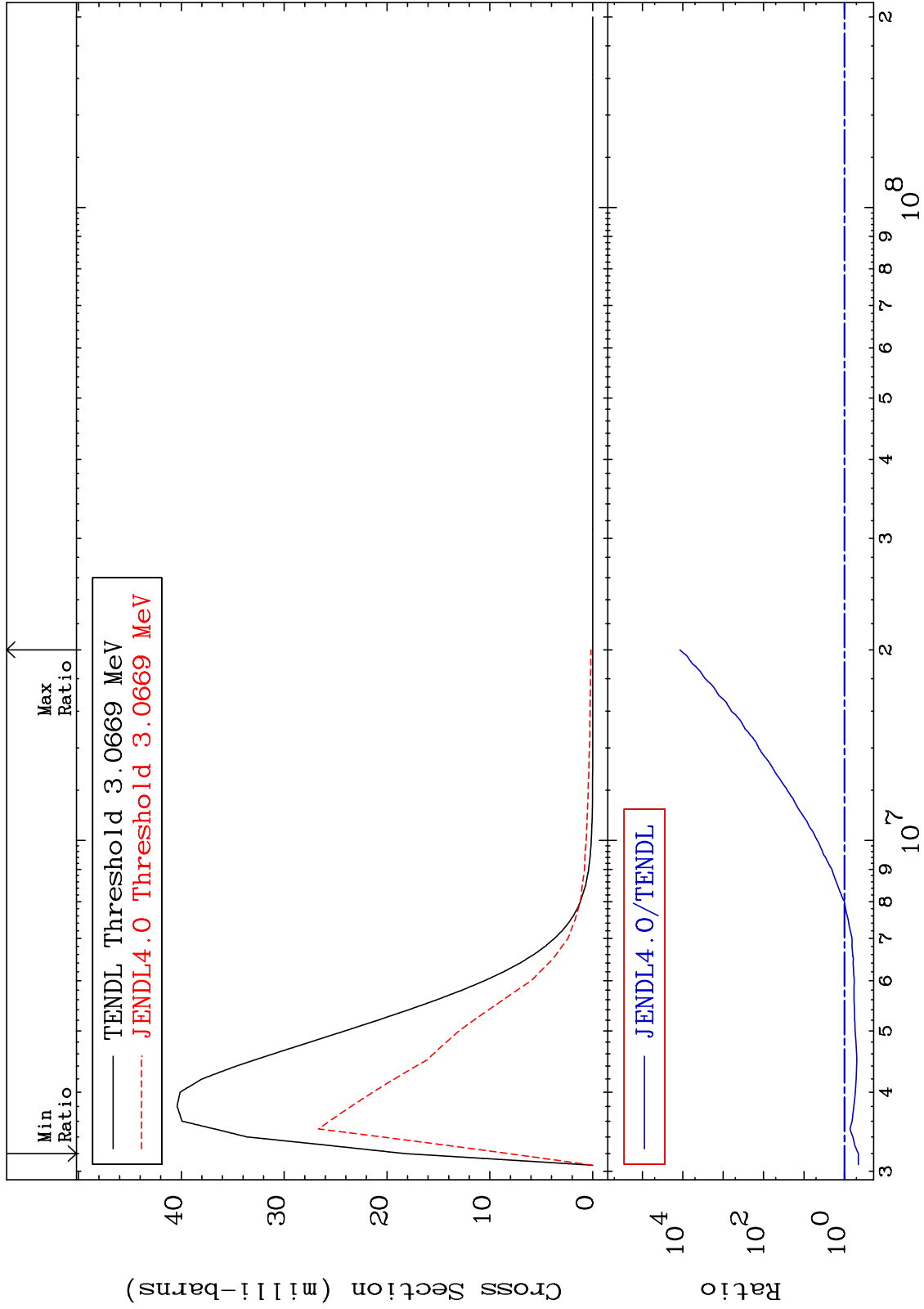
MAT 3843 MT= 61 (n,n') Level Cross Section -40.27 To 9999. % 38-Sr-90



MAT 3843

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

38-Sr-90
-55.19 To 9999. %



20

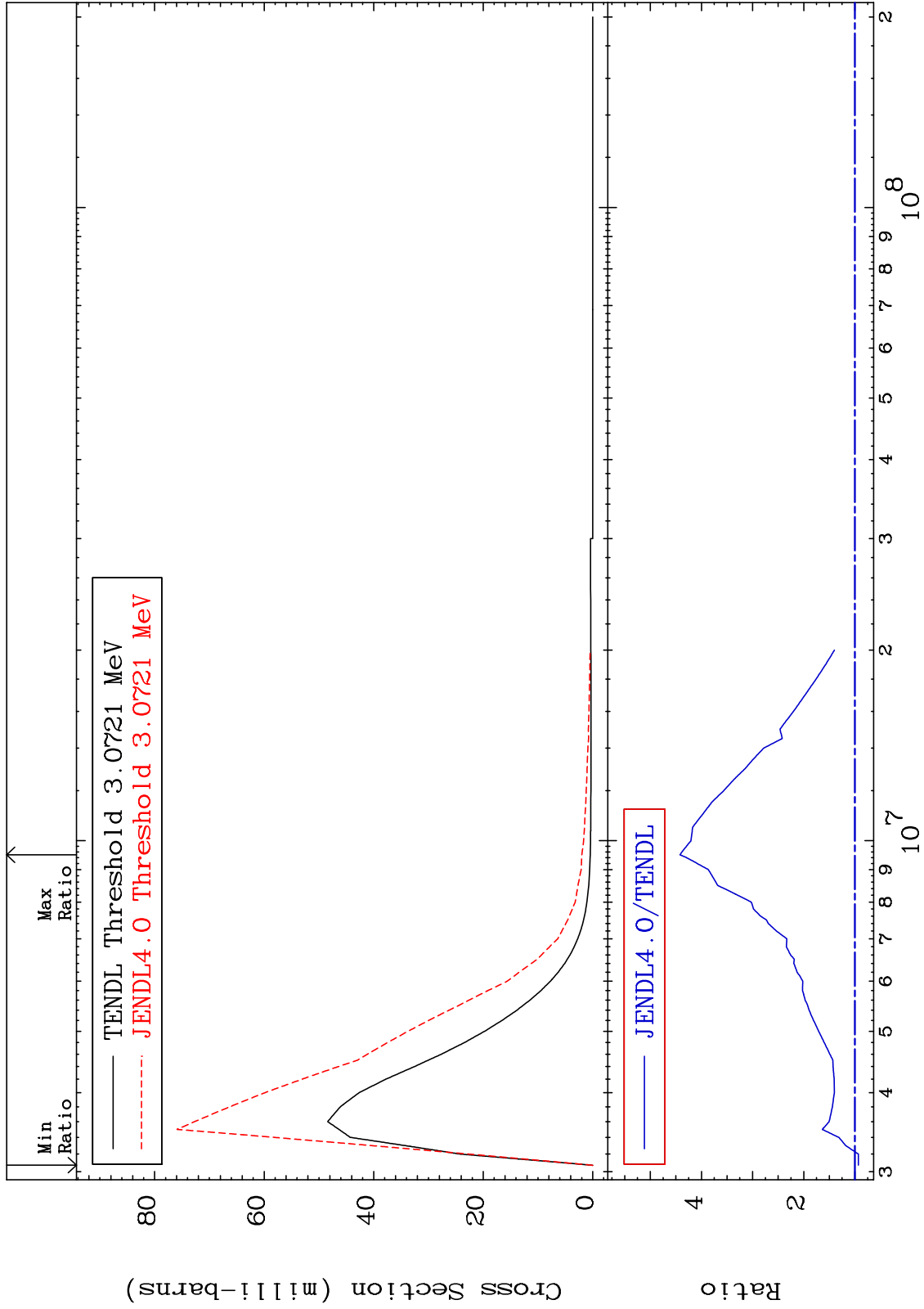
38-Sr-90

38-Sr-90

MAT 3843

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

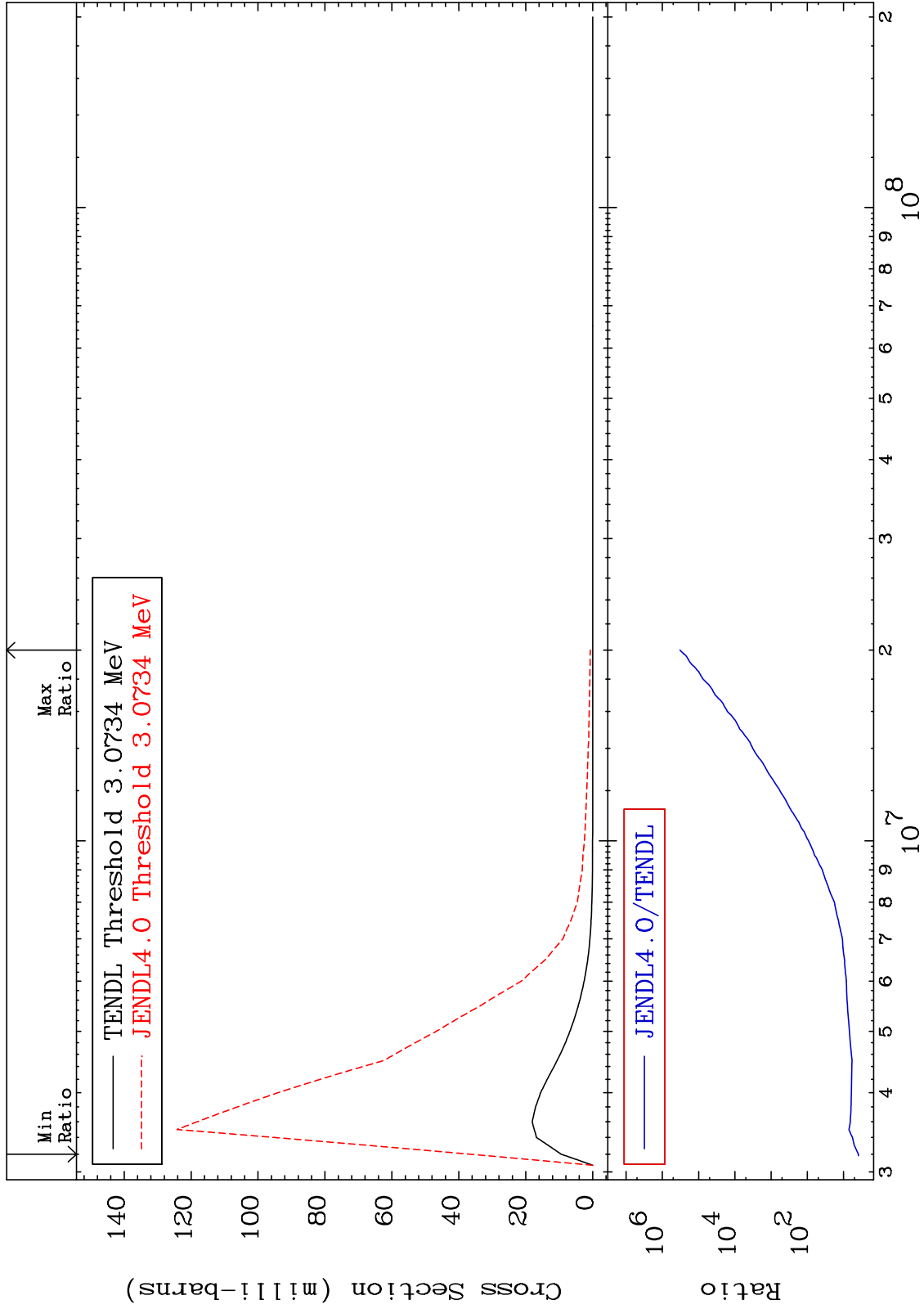
38-Sr-90
-6.884 To 341.9 %



MAT 3843

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

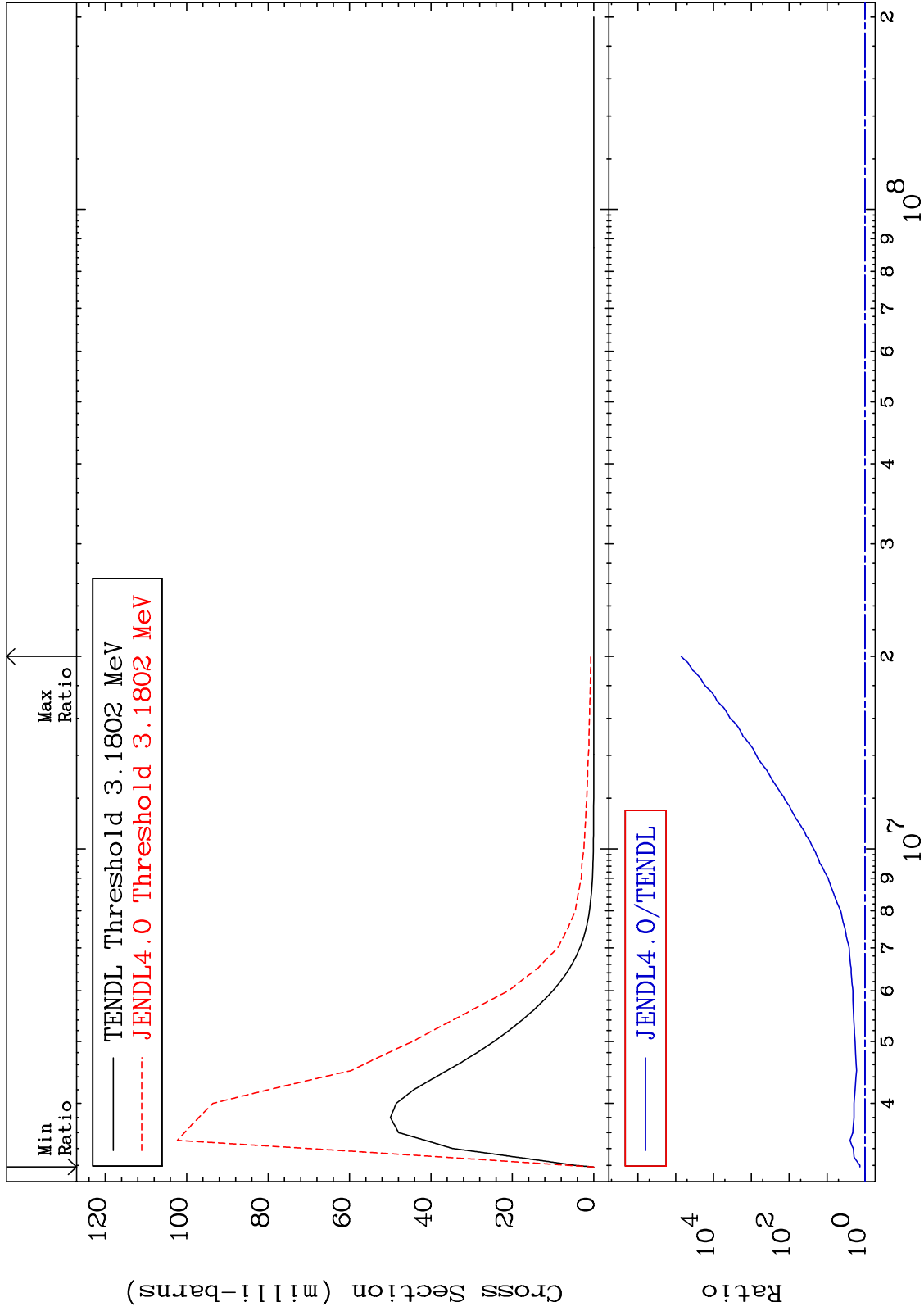
38-Sr-90
289.4 To 9999. %



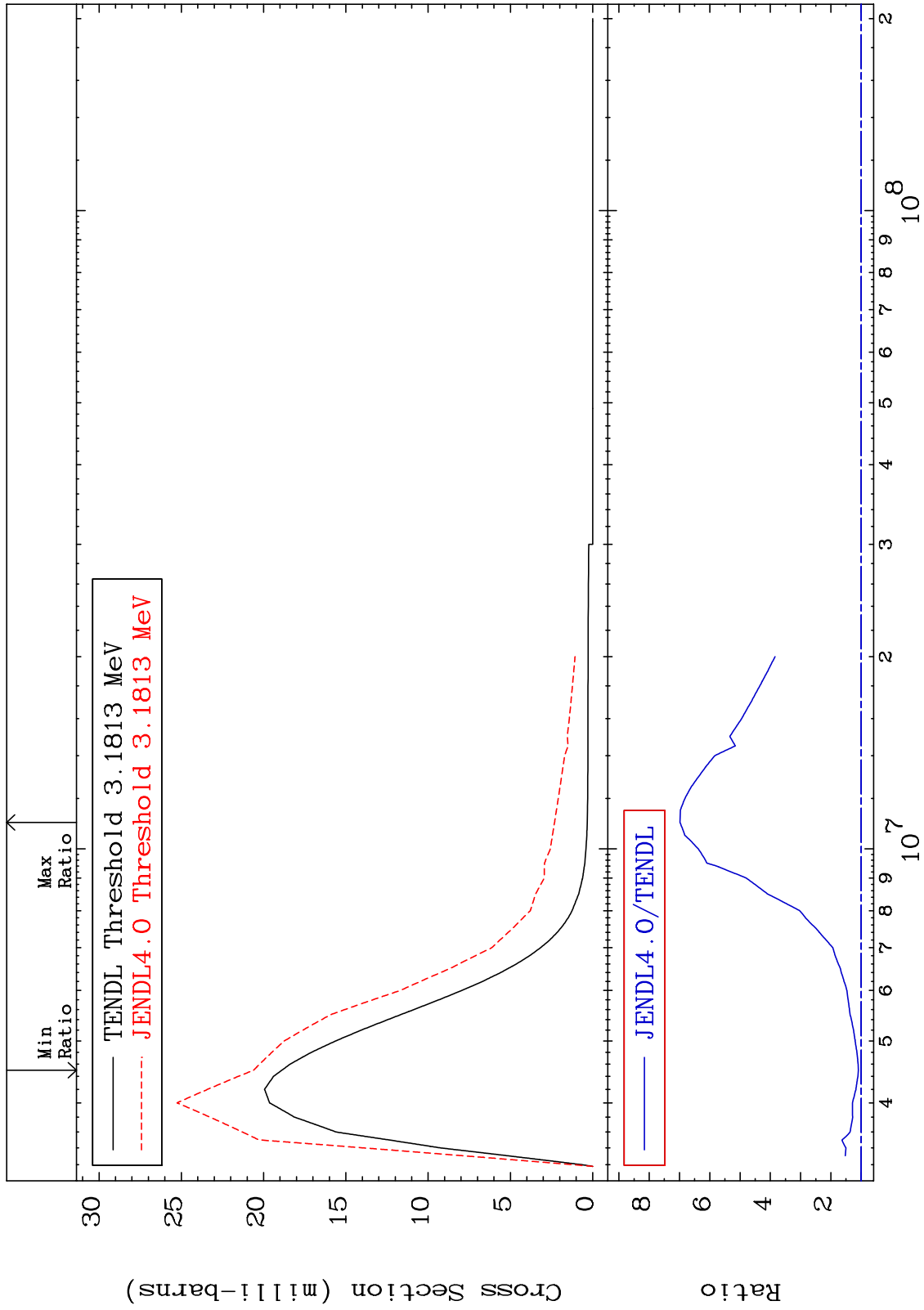
MAT 3843

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

35.16 To 9999. %
38-Sr-90



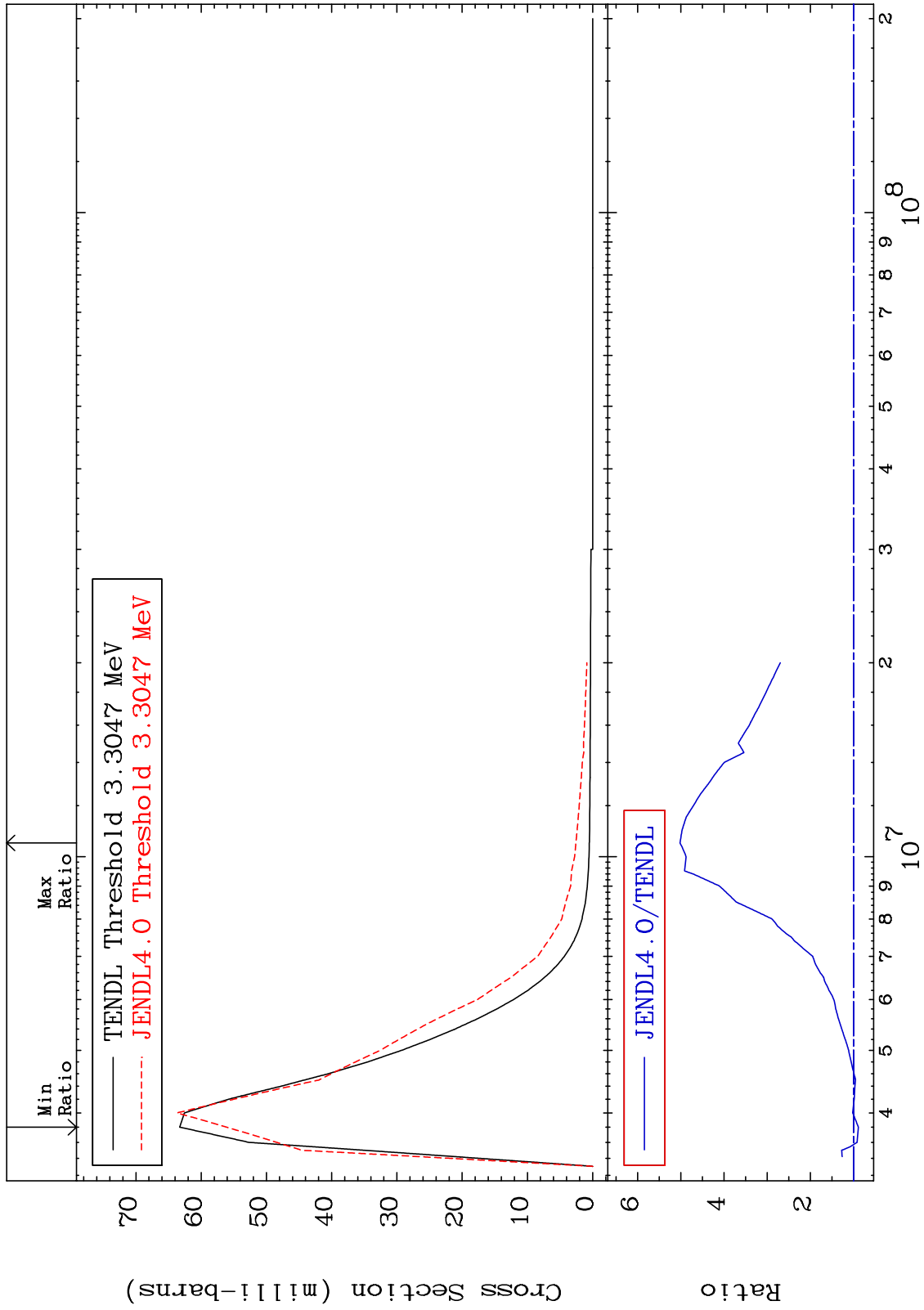
MAT 3843 MT= 66 (n,n') Level Cross Section 38-Sr-90
 9.100 To 598.2 %



38-Sr-90

Incident Energy (eV)

MAT 3843 MT= 67 (n,n') Level
Cross Section 38-Sr-90
-11.43 To 401.8 %



38-Sr-90

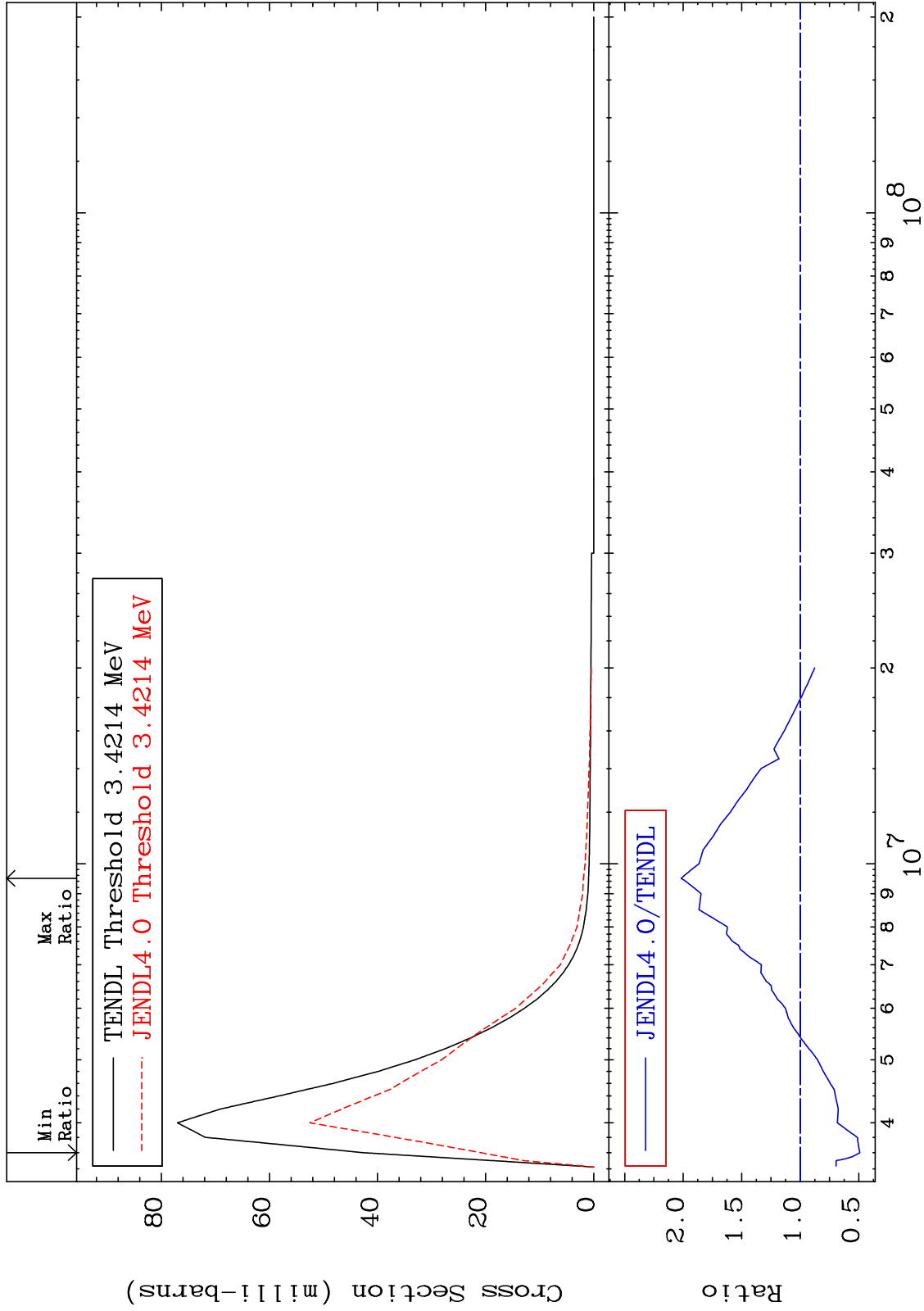
Incident Energy (eV)

25

MAT 3843

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

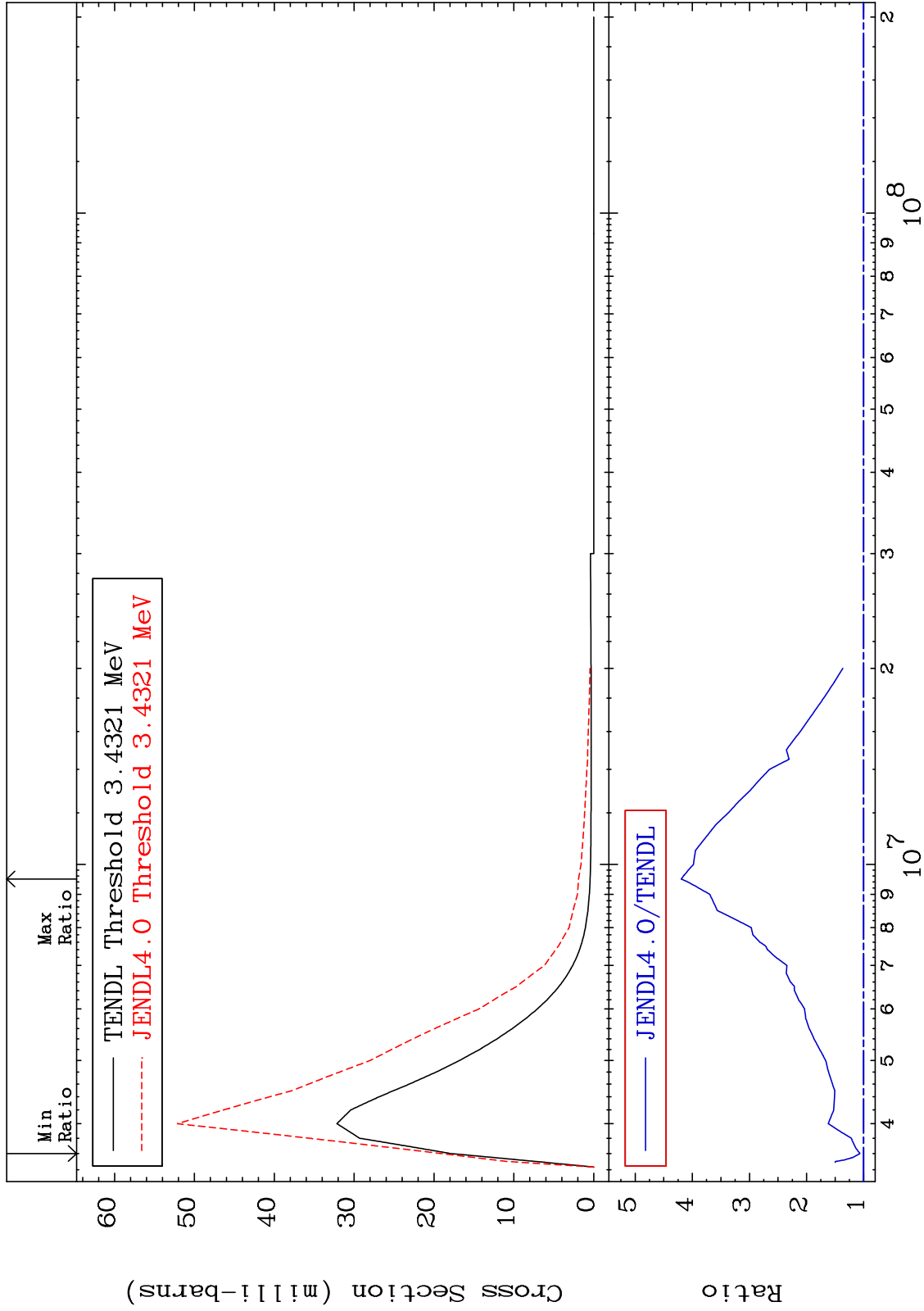
38-Sr-90
-51.04 To 101.7 %



MAT 3843

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

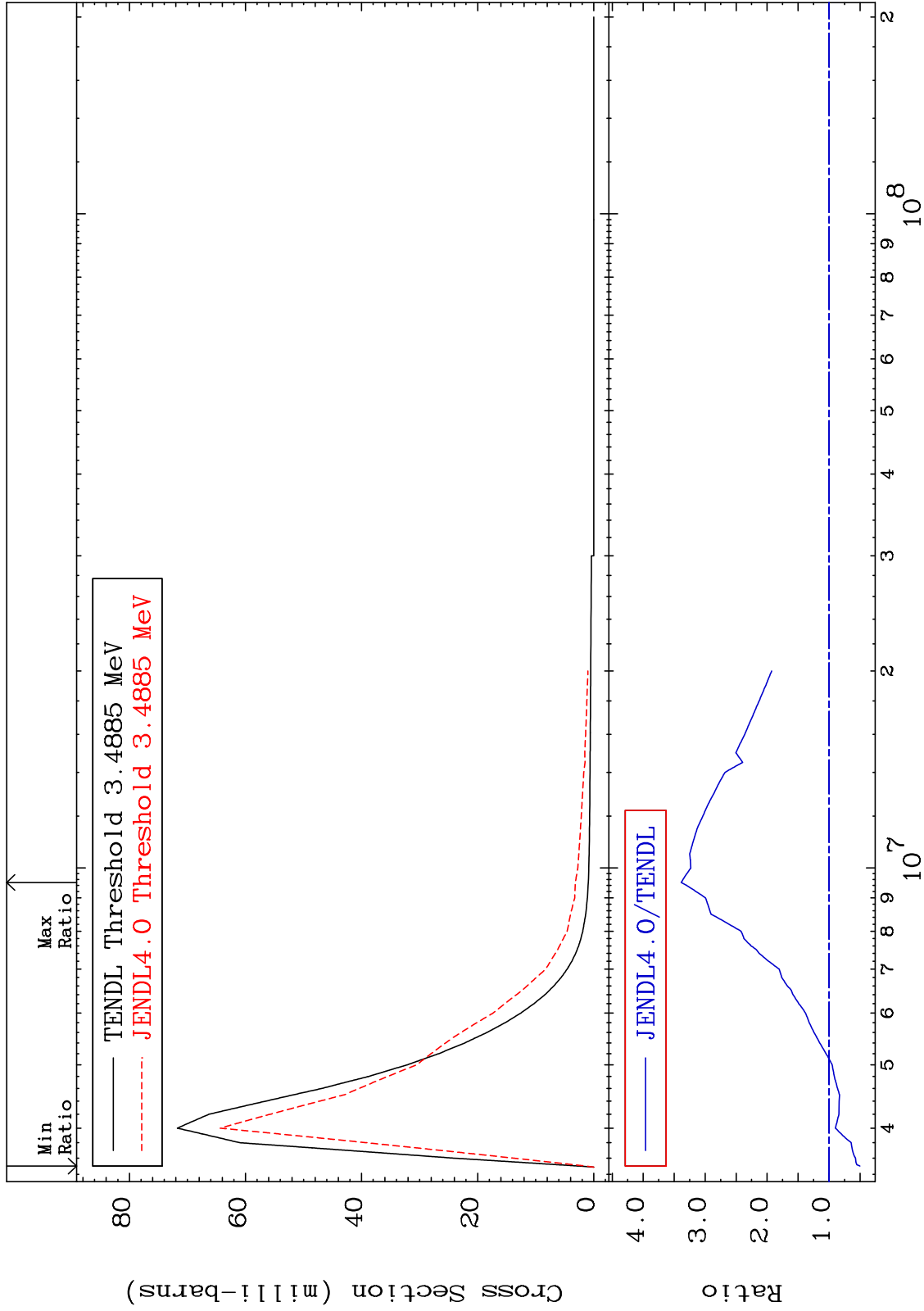
38-Sr-90
6.546 To 319.4 %



MAT 3843

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

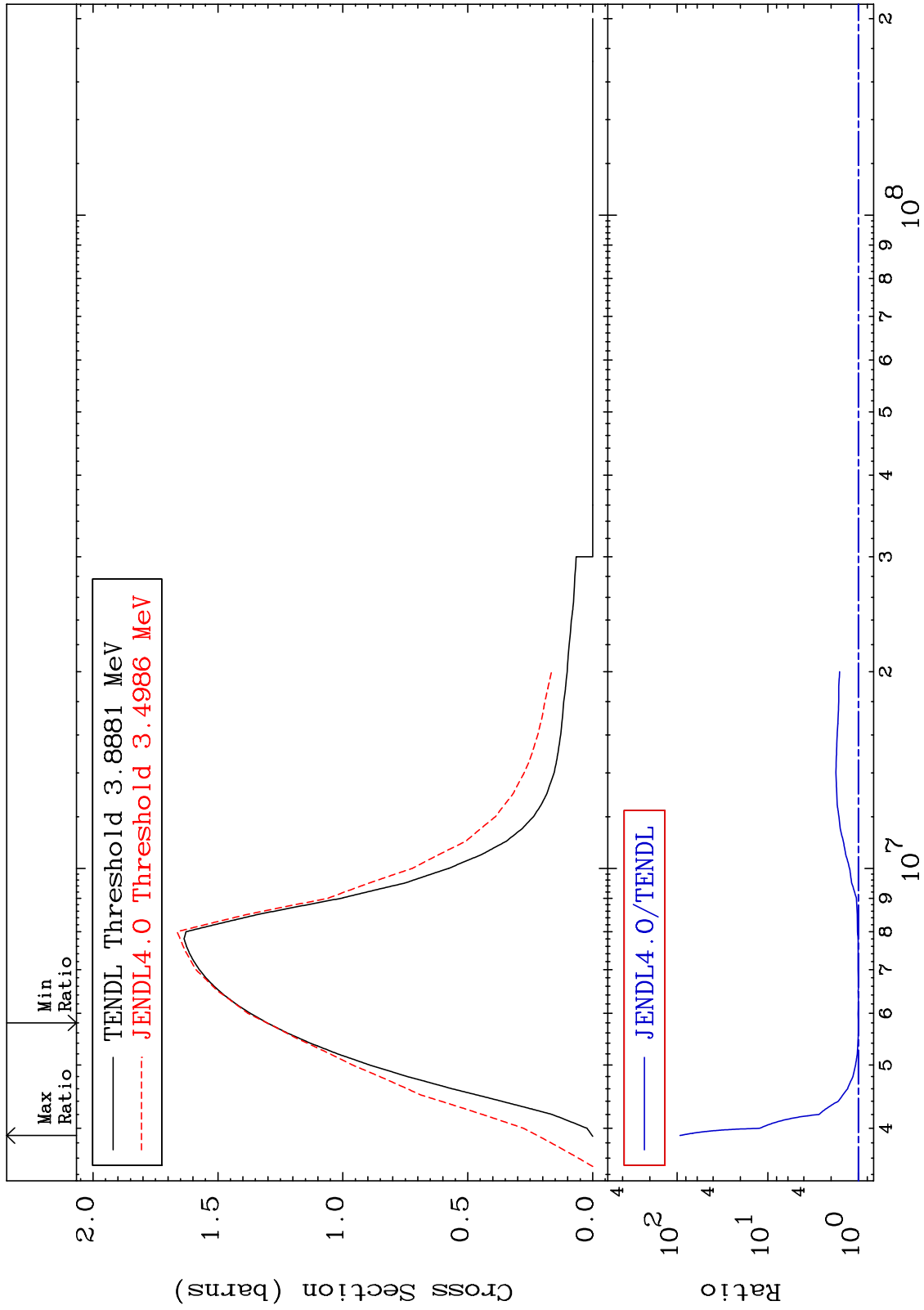
38-Sr-90
-49.88 To 238.6 %



MAT 3843

(n,n') Continuum
Cross Section

38-Sr-90
0.027 To 9182. %



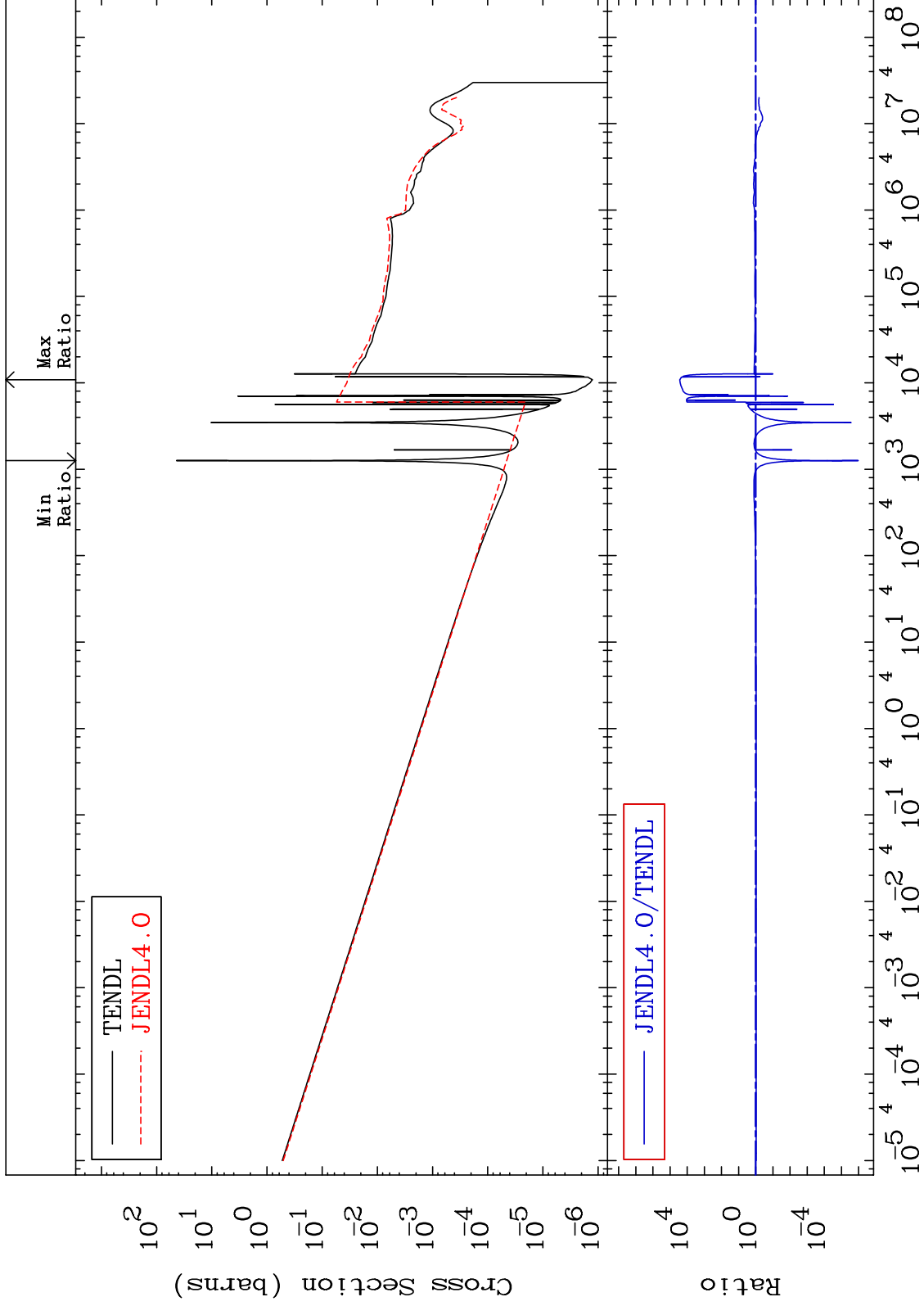
MAT 3843

(n, γ)

38-Sr-90

Cross Section

-100.0 To 9999. %



30

Incident Energy (eV)

38-Sr-90

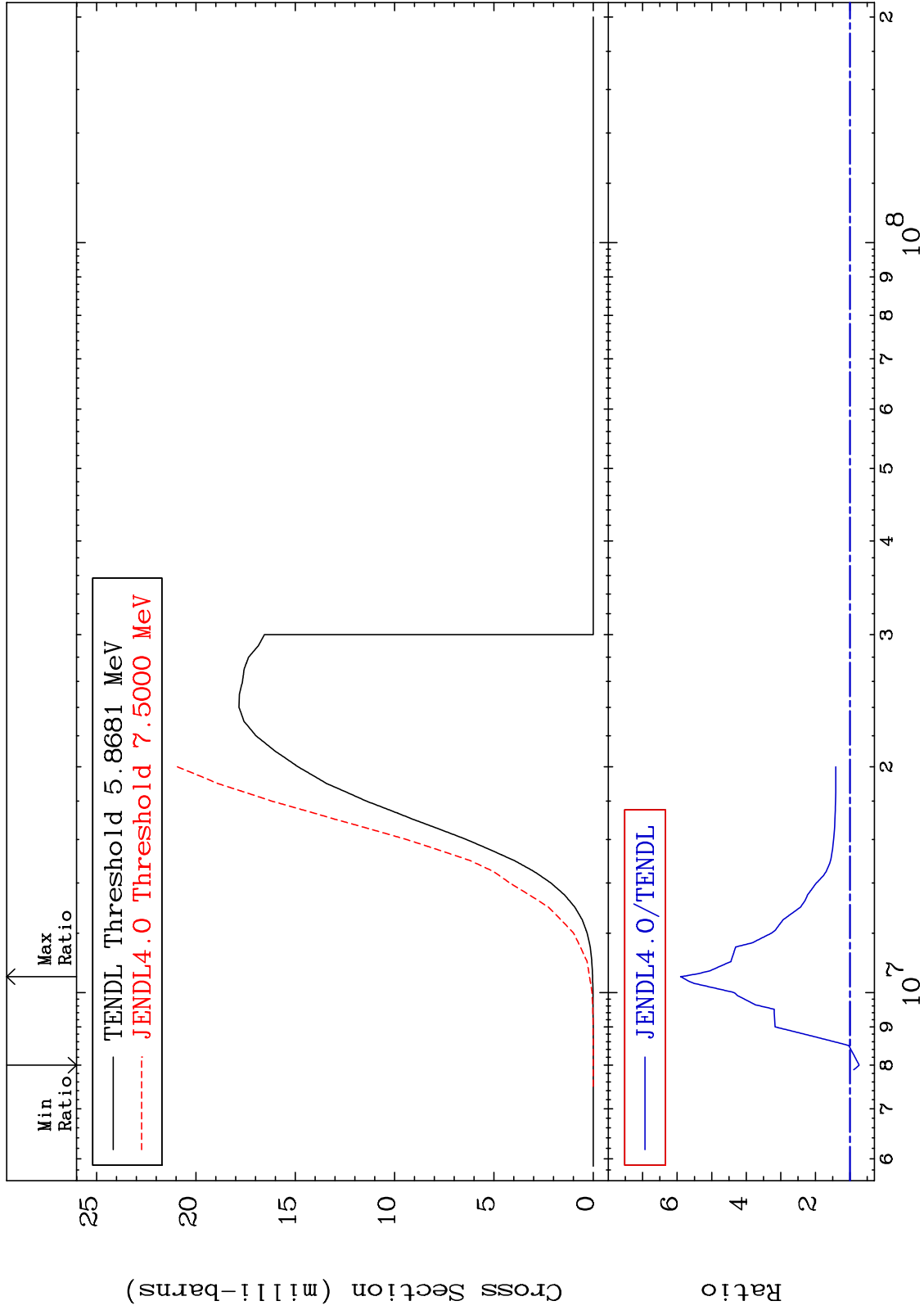
MAT 3843

(n,p)

38-Sr-90

Cross Section

-26.75 To 489.9 %



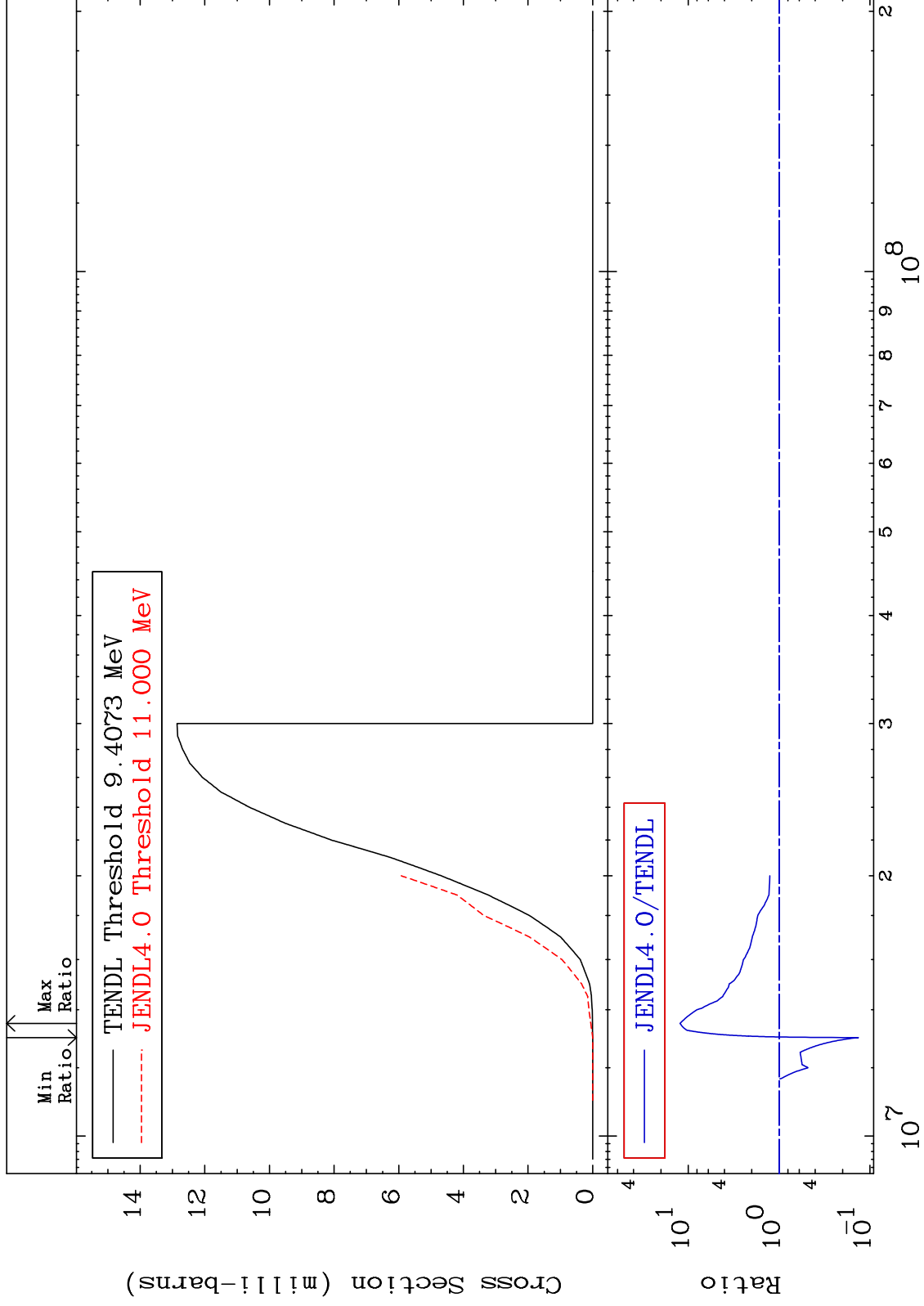
MAT 3843

(n,d)

38-Sr-90

Cross Section

-86.61 To 1132. %



32

Incident Energy (eV)

38-Sr-90

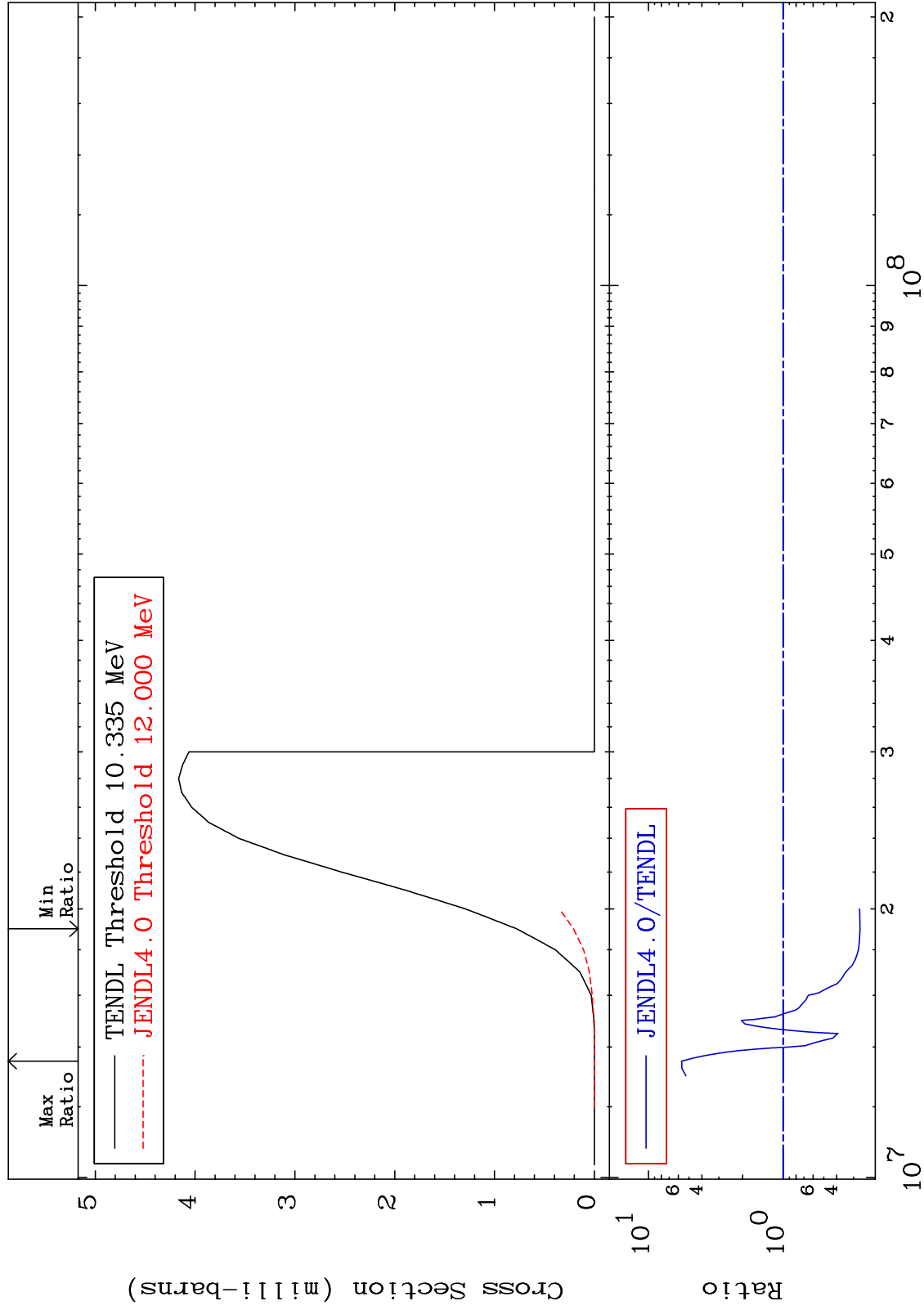
MAT 3843

(n, t)

38-Sr-90

Cross Section

-73.13 To 466.0 %



33

Incident Energy (eV)

38-Sr-90

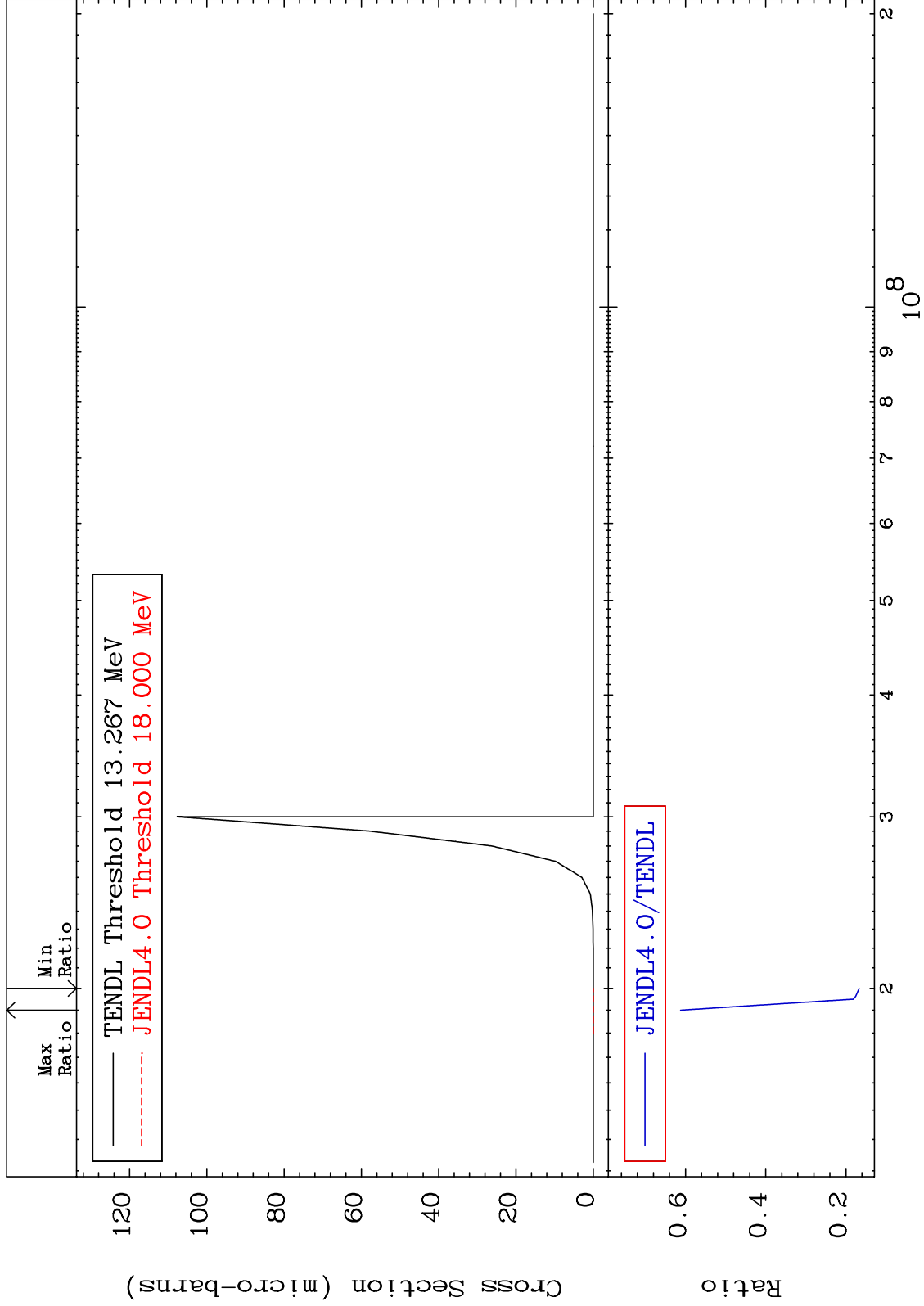
MAT 3843

(n, He-3)

38-Sr-90

Cross Section

-83.28 To -38.78%



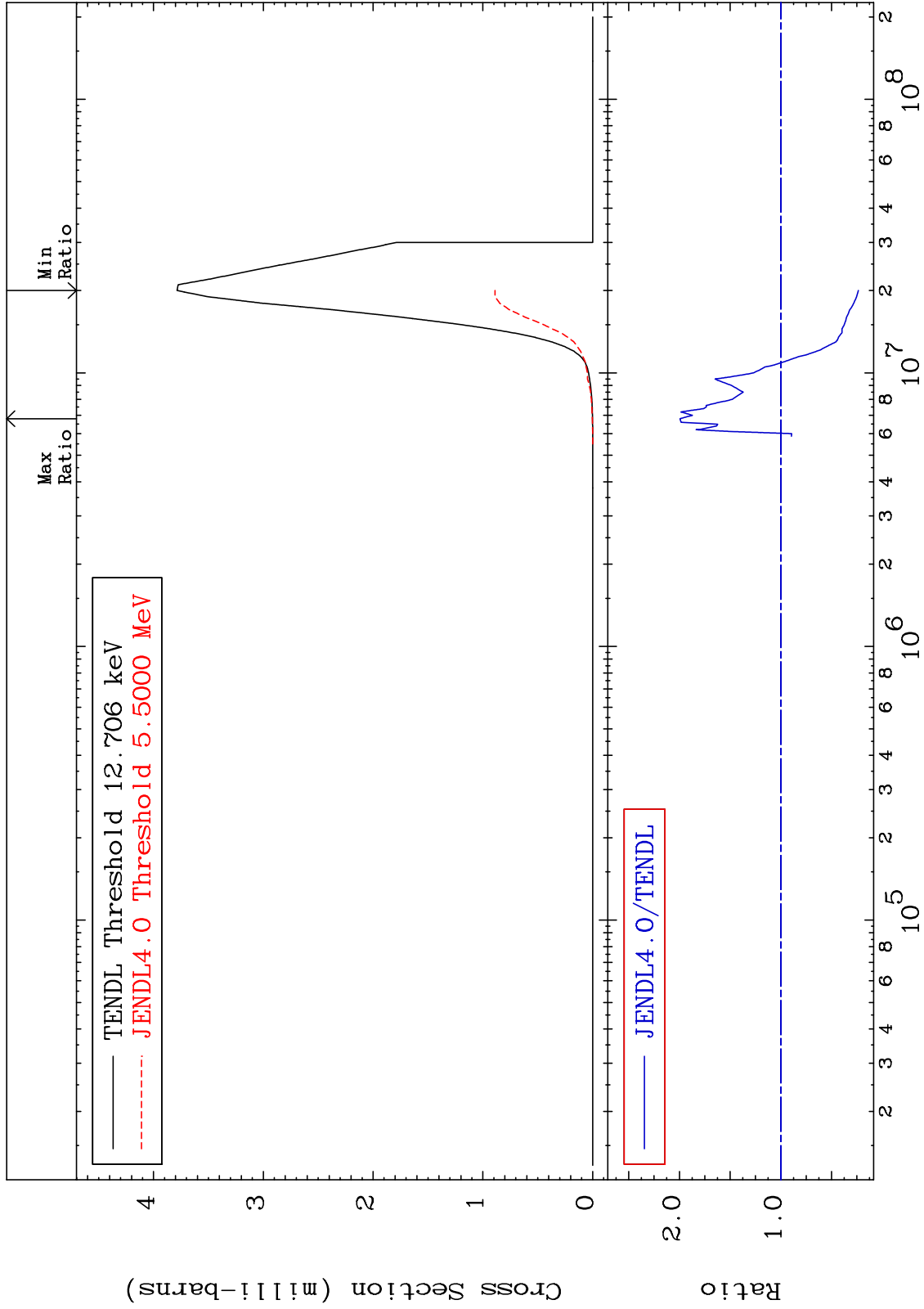
MAT 3843

(n, α)

38-Sr-90

Cross Section

-76.50 To 99.40 %



35

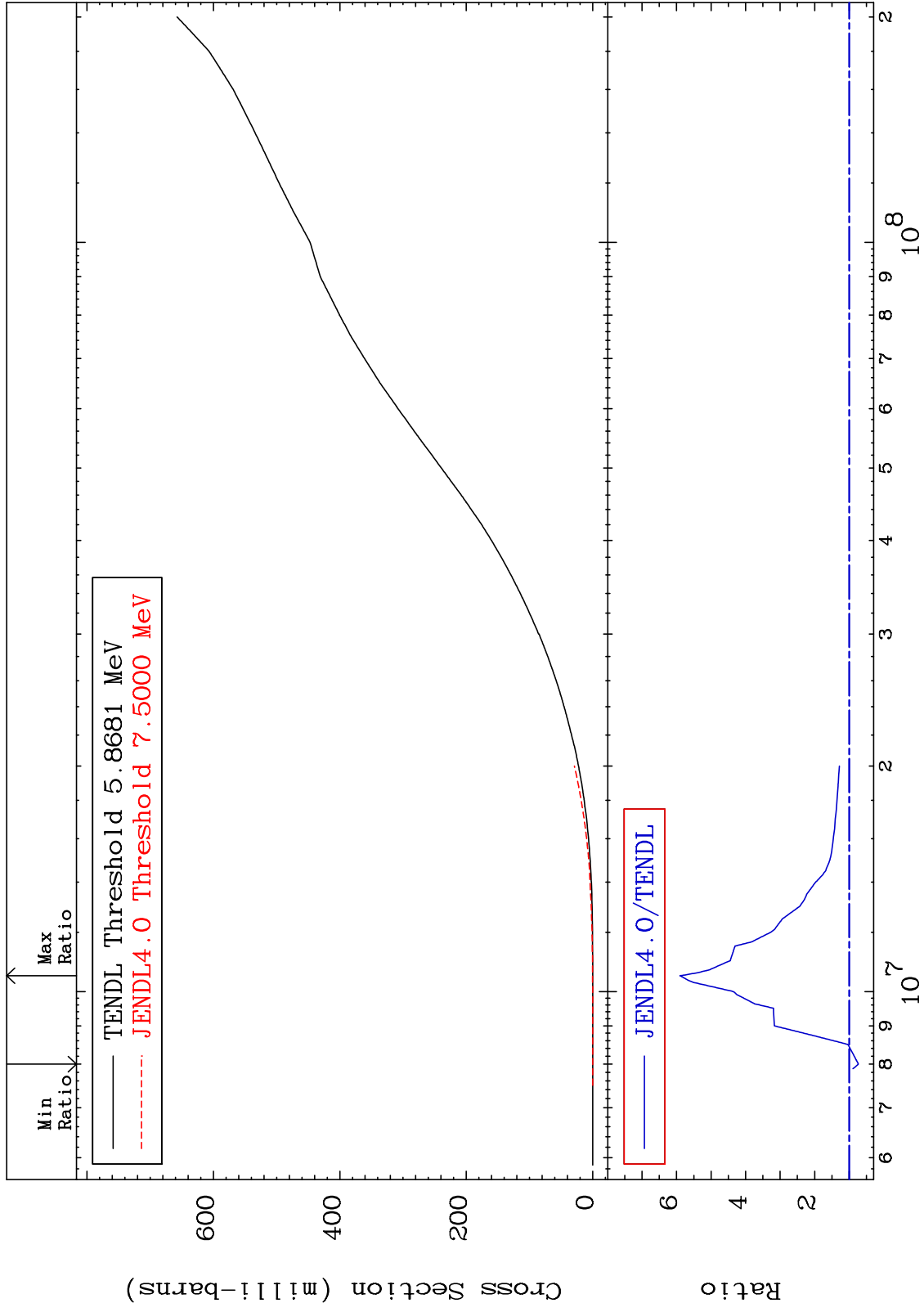
Incident Energy (eV)

38-Sr-90

MAT 3843

Hydrogen Production
Cross Section

38-Sr-90
-26.75 To 489.9 %



36

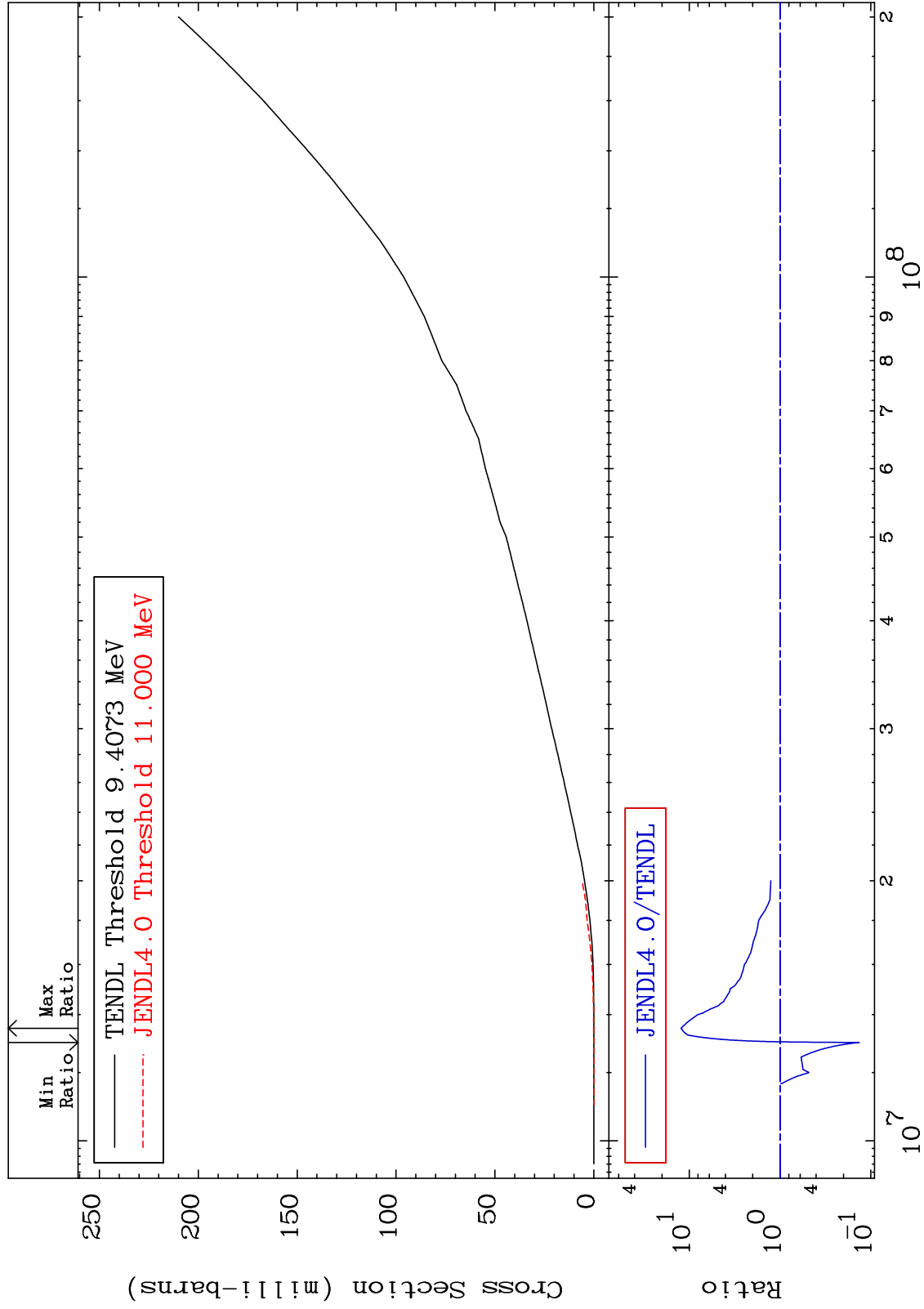
Incident Energy (eV)

38-Sr-90

MAT 3843

Deuterium Production
Cross Section

38-Sr-90
-86.61 To 1132. %



37

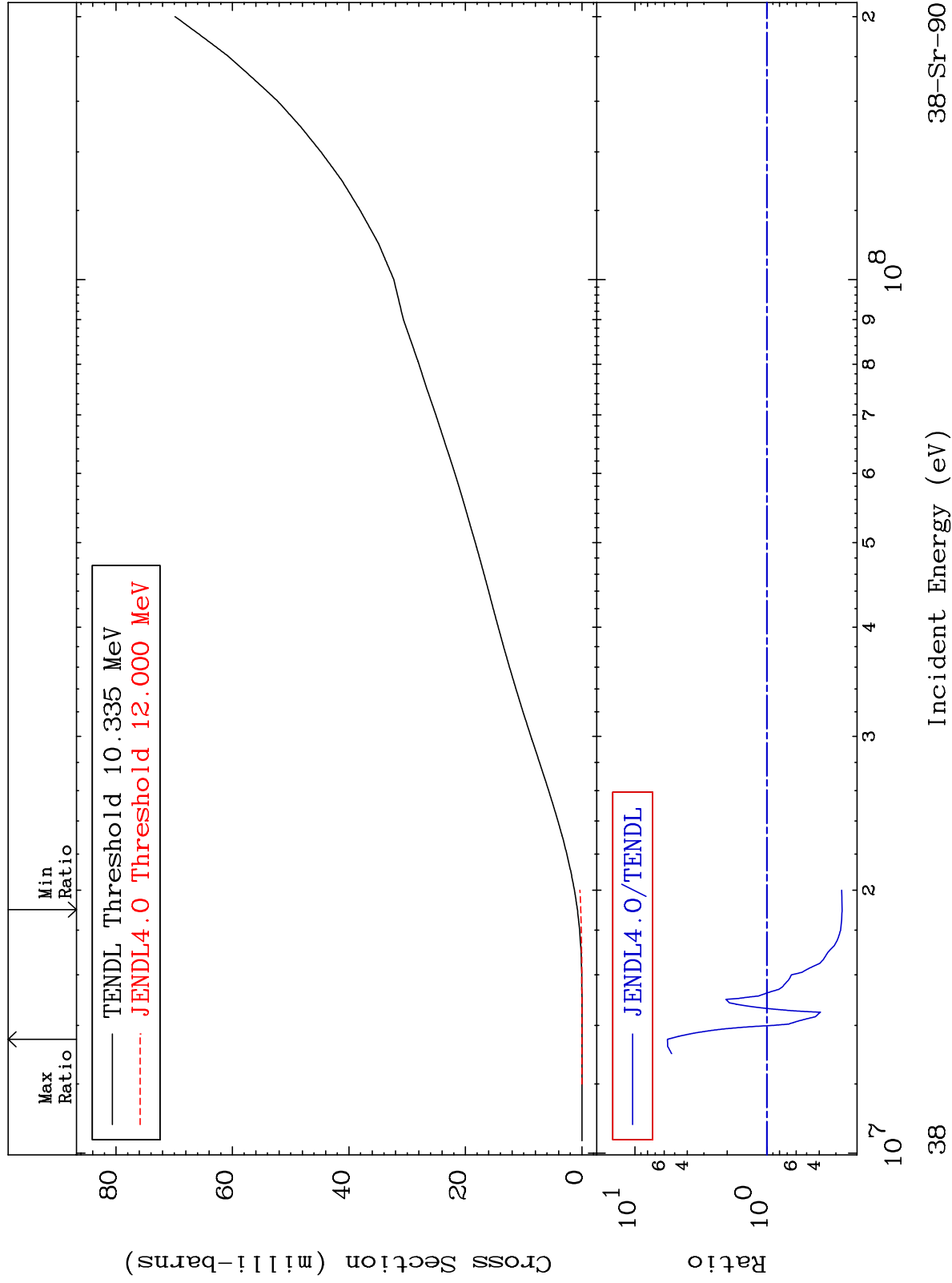
Incident Energy (eV)

38-Sr-90

MAT 3843

Tritium Production
Cross Section

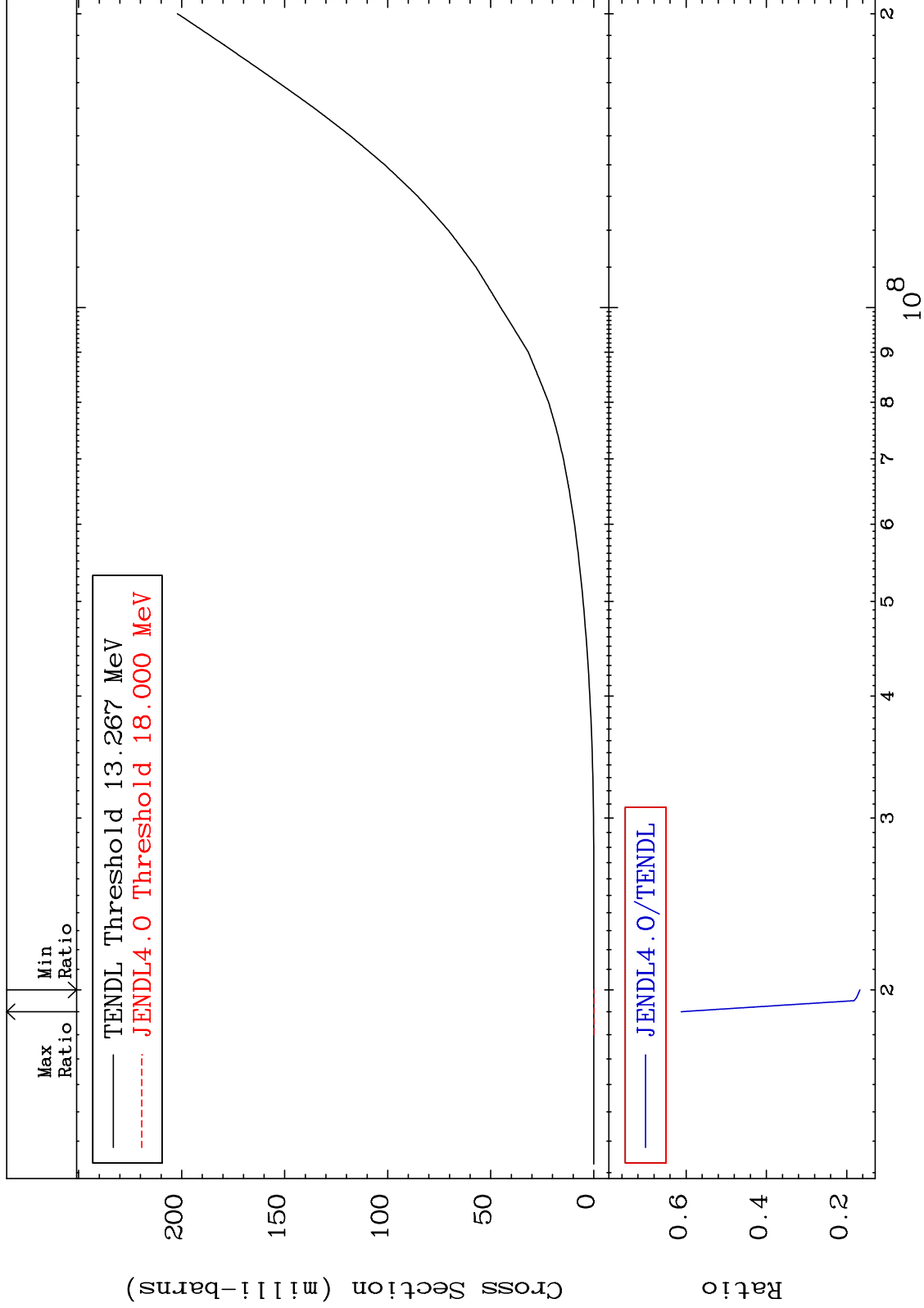
38-Sr-90
-73.13 To 466.0 %



MAT 3843

He-3 Production
Cross Section

38-Sr-90
-83.28 To -38.78%



39

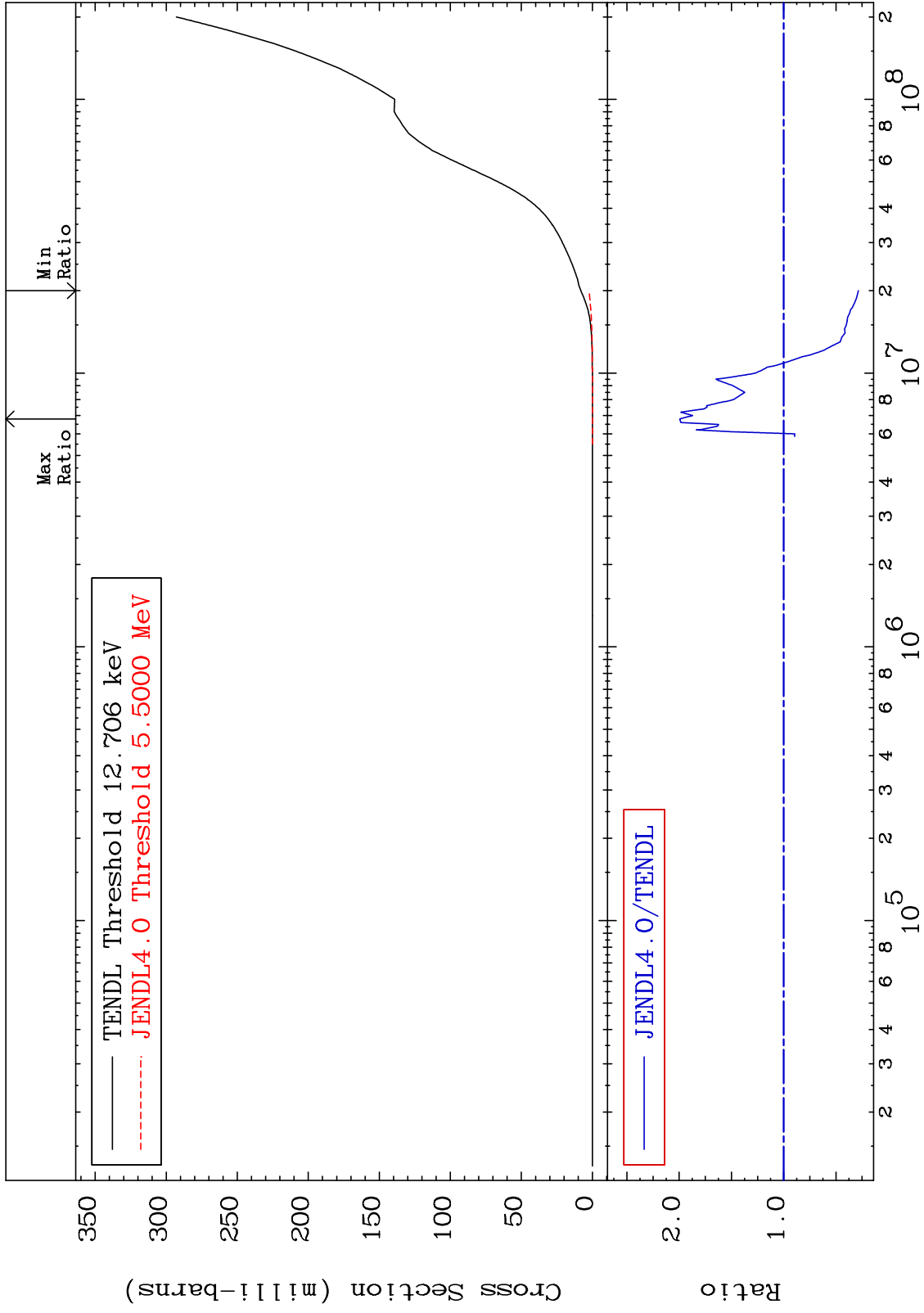
Incident Energy (eV)

38-Sr-90

MAT 3843

He-4 Production
Cross Section

38-Sr-90
-71.43 To 99.40 %



40

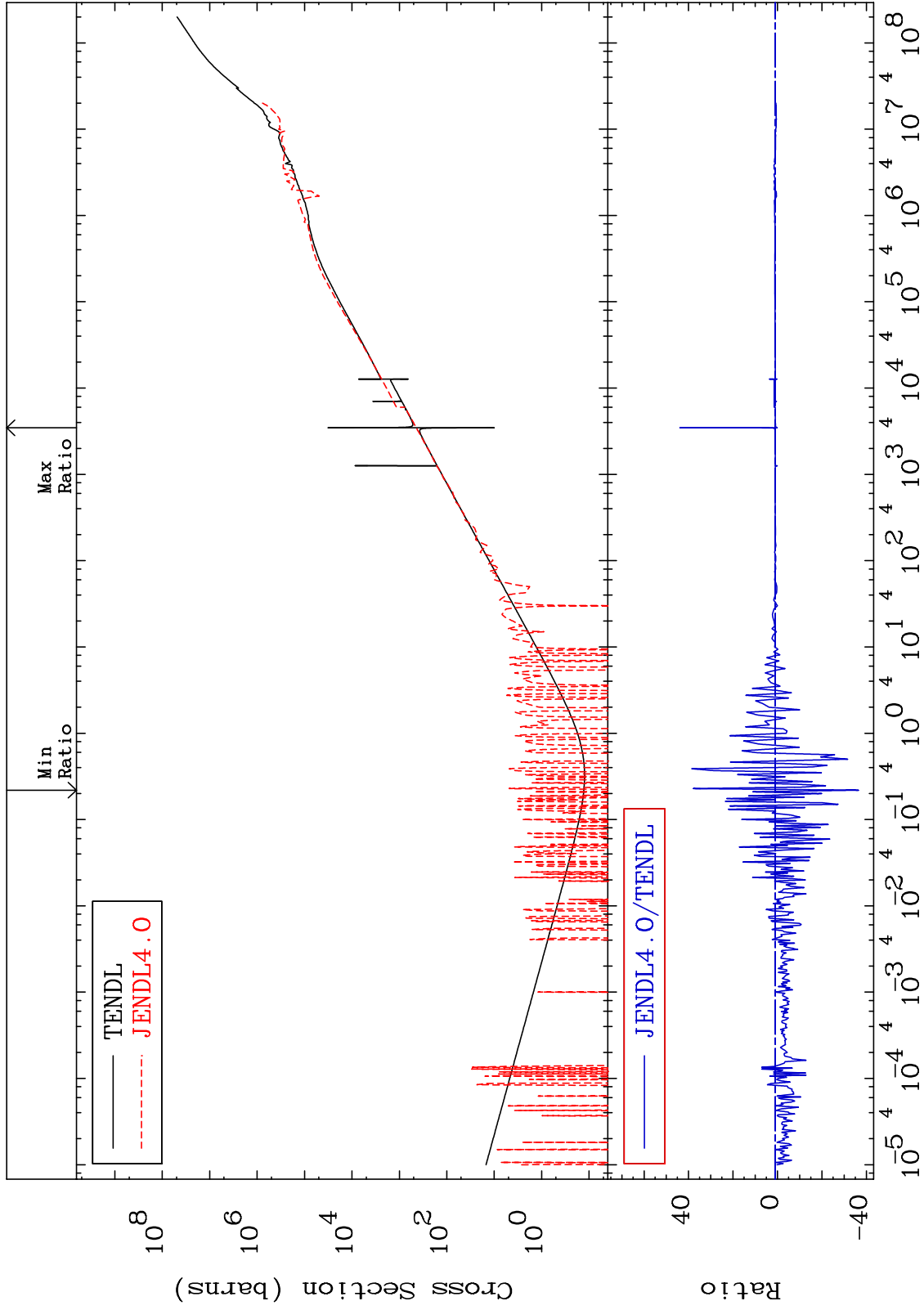
Incident Energy (eV)

38-Sr-90

MAT 3843

Kerma total (eV-barns)
Cross Section

38-Sr-90
-3741. To 4283. %



41

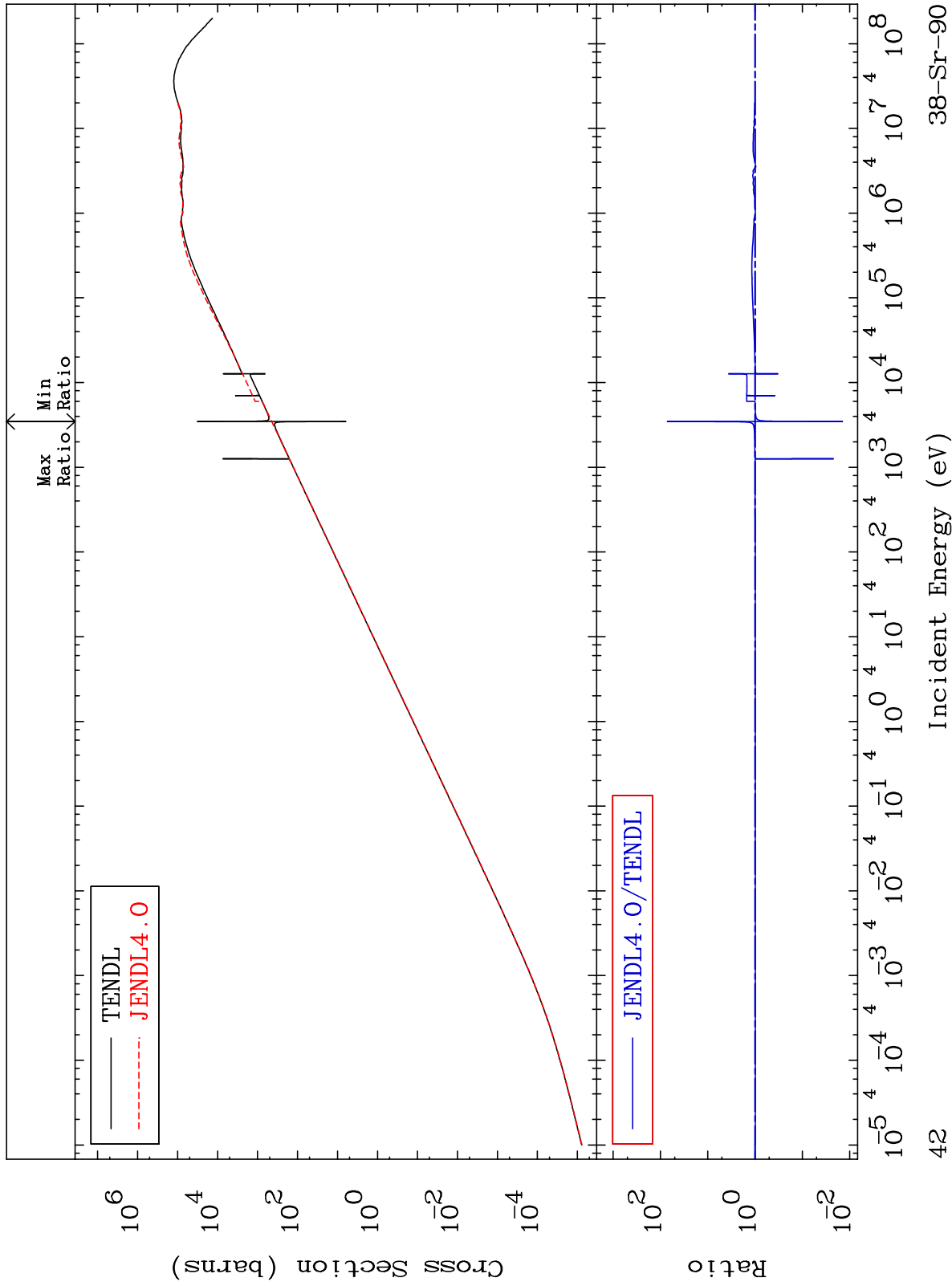
Incident Energy (eV)

38-Sr-90

MAT 3843

Kerma elastic
Cross Section

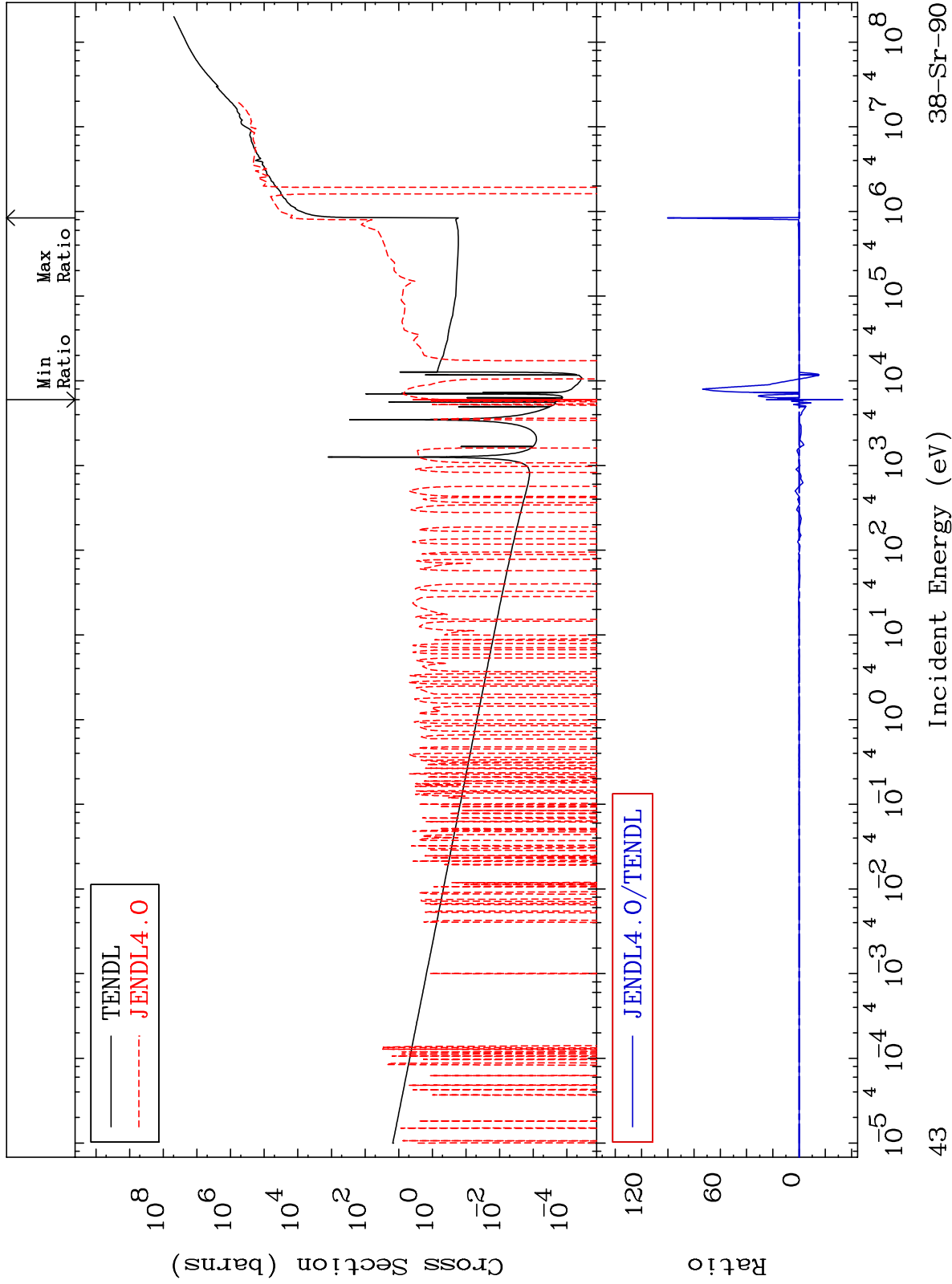
38-Sr-90
-98.60 To 6971. %



MAT 3843

Kerma non-elastic (all but mt2)
Cross Section

38-Sr-90
-9999. To 9999. %



43

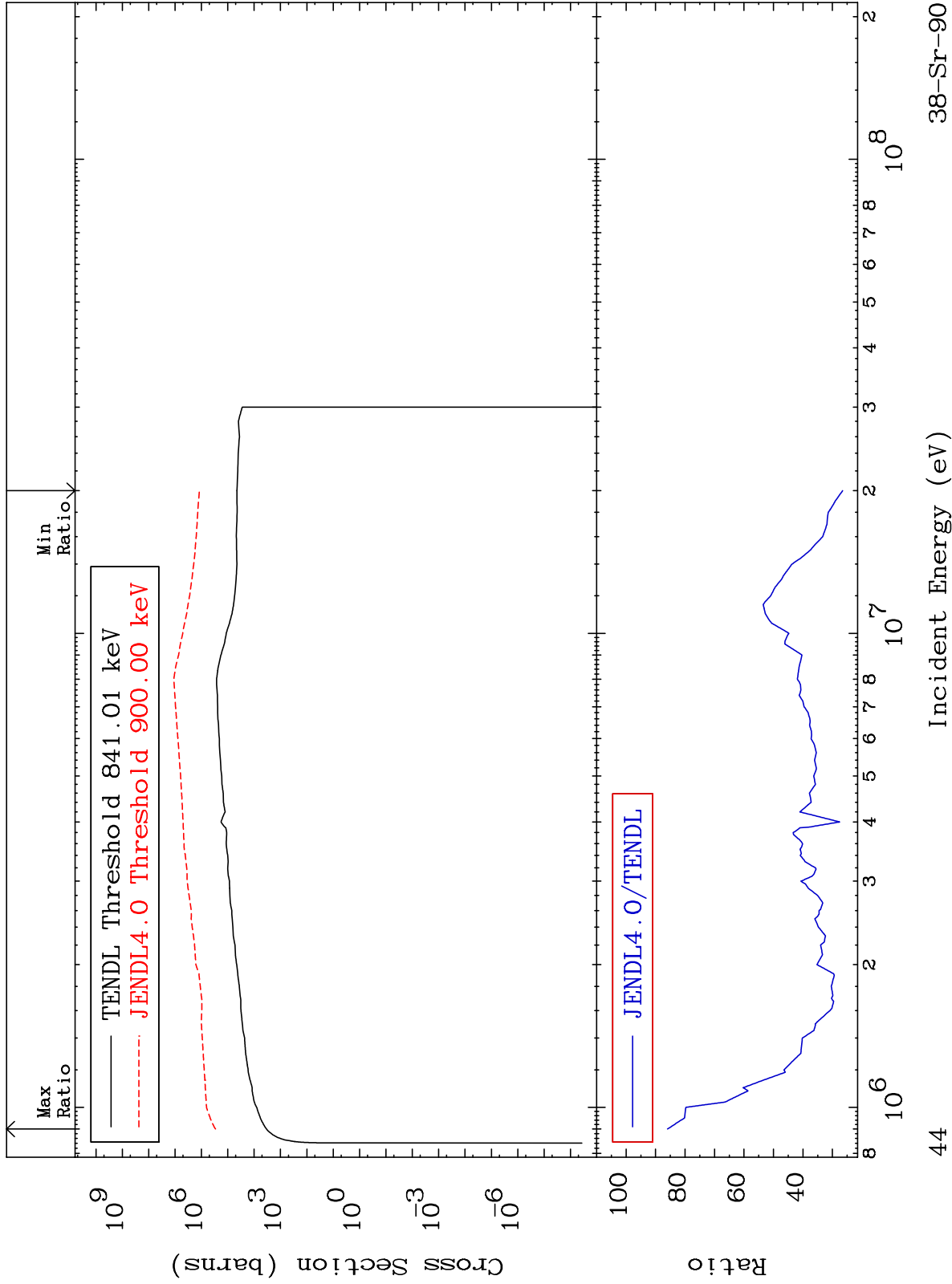
Incident Energy (eV)

38-Sr-90

MAT 3843

Kerma inelastic (mt51-91)
Cross Section

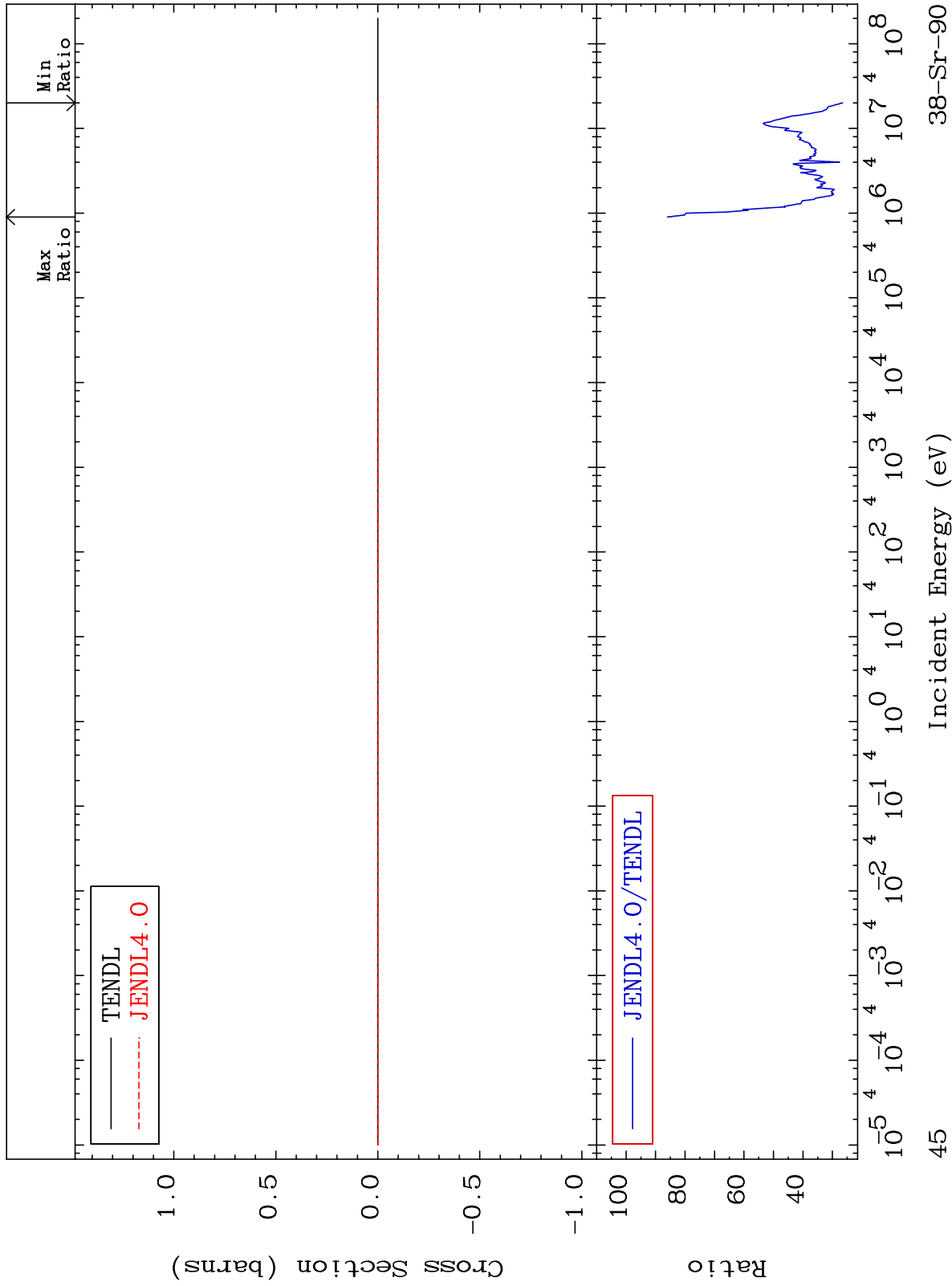
38-Sr-90
2553. To 8494. %



MAT 3843

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

38-Sr-90
2553. To 8494. %



45

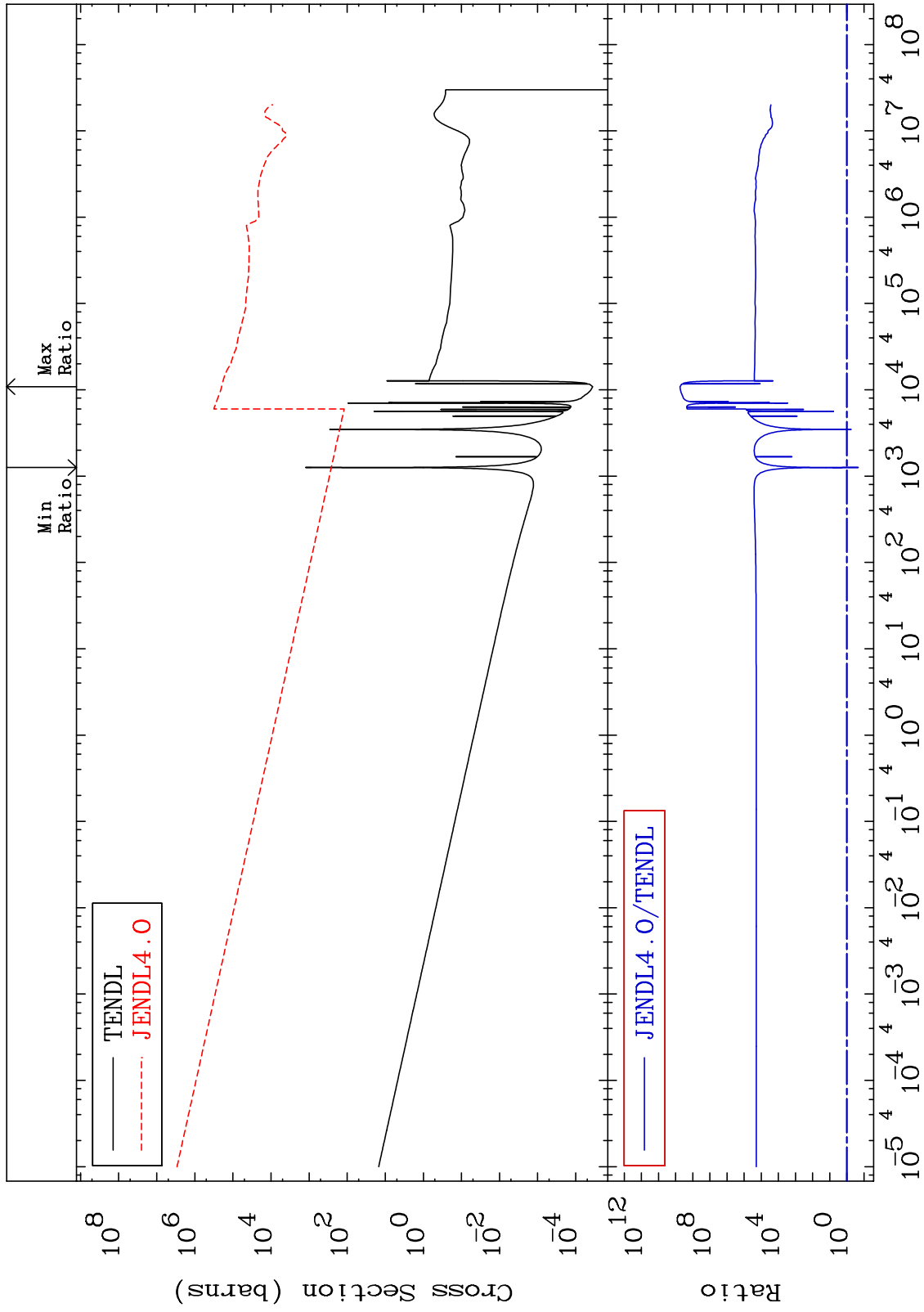
Incident Energy (eV)

38-Sr-90

MAT 3843

Kerma capture (mt102)
Cross Section

38-Sr-90
-78.86 To 9999. %



46

Incident Energy (eV)

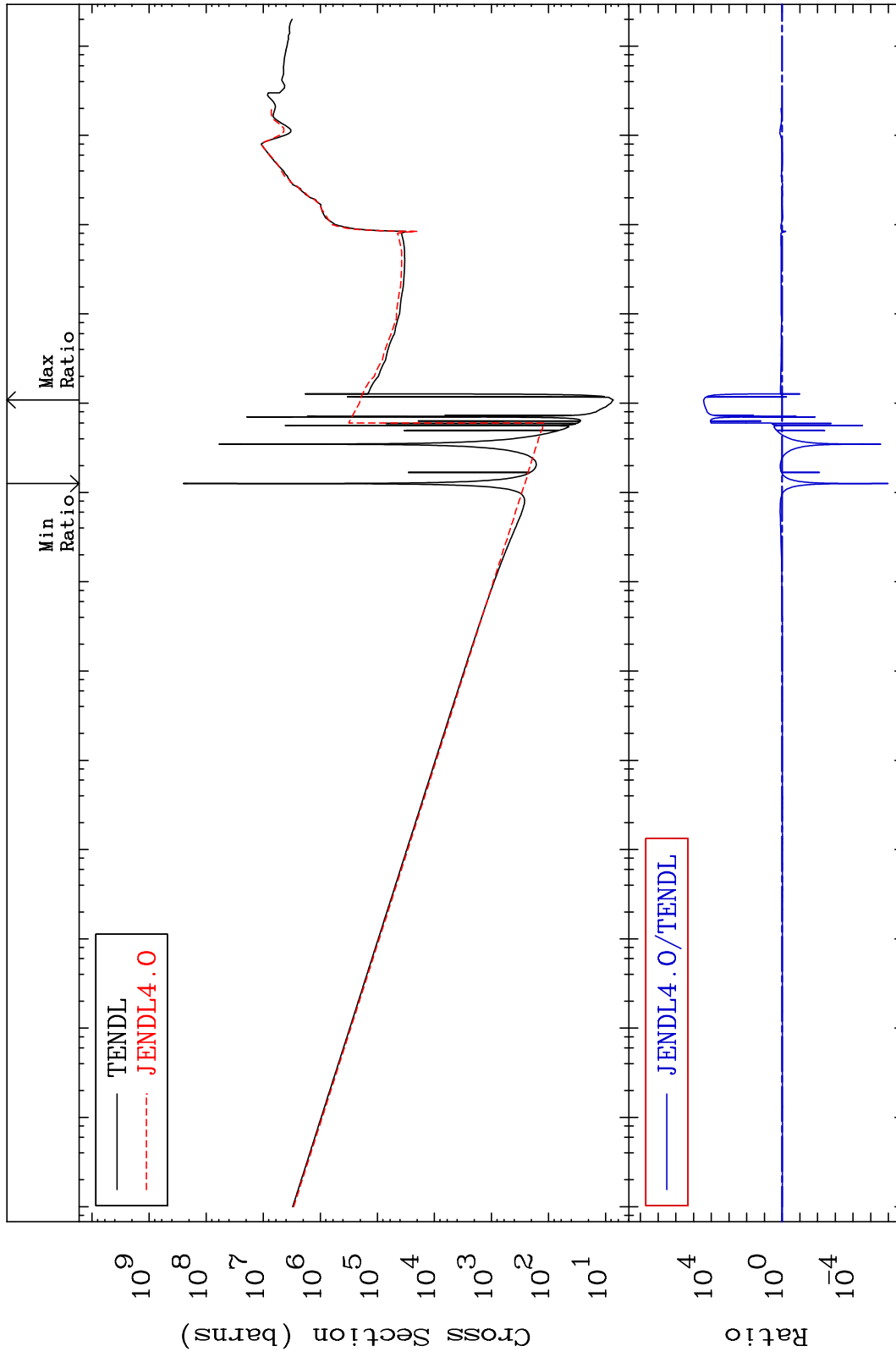
38-Sr-90

MAT 3843

Total photon (eV-barns)
Cross Section

38-Sr-90

-100.0 To 9999. %



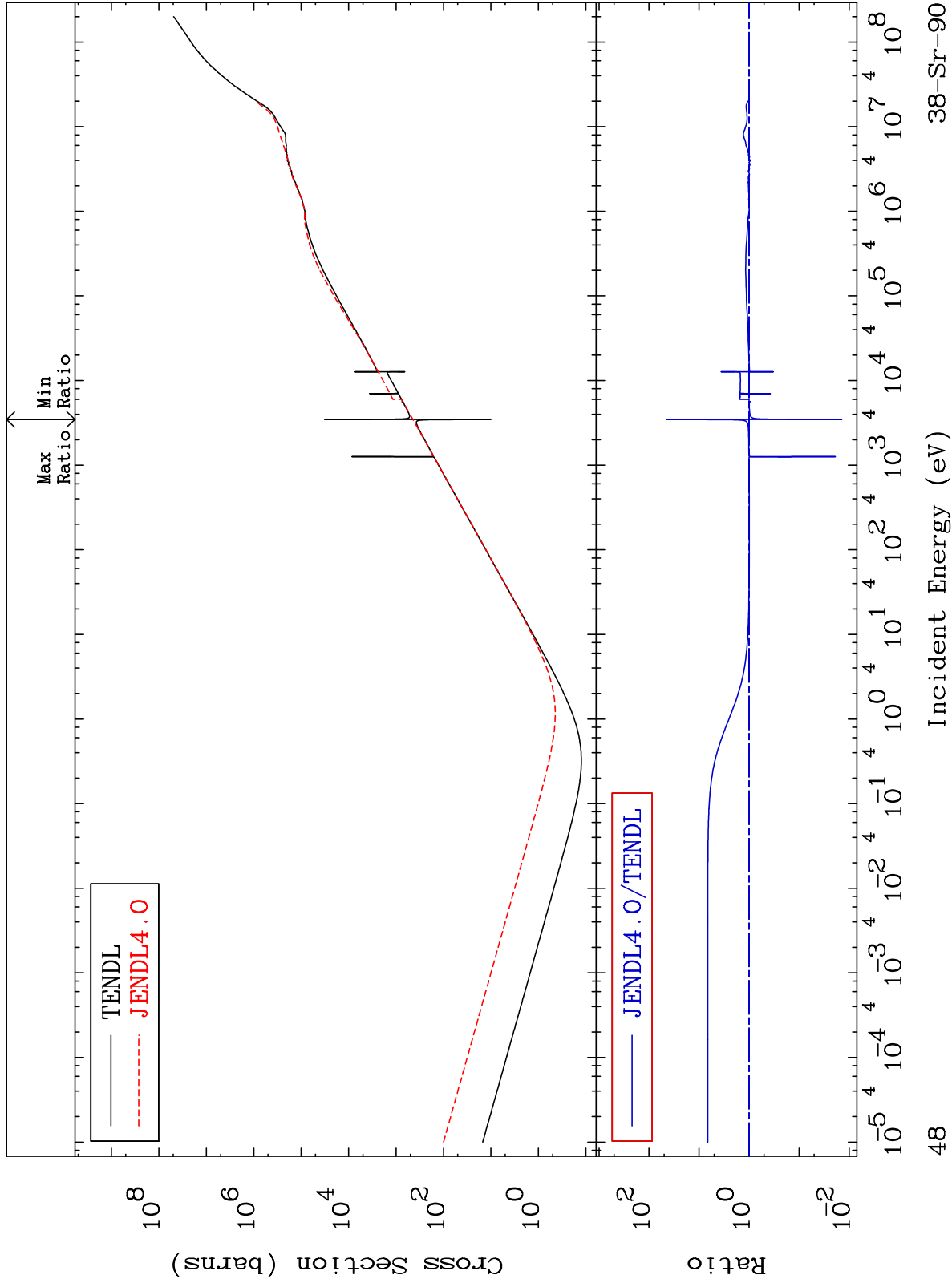
Incident Energy (eV)

38-Sr-90

MAT 3843

Total kinematic kerma (high limit)
Cross Section

38-Sr-90
-98.61 To 4278. %



48

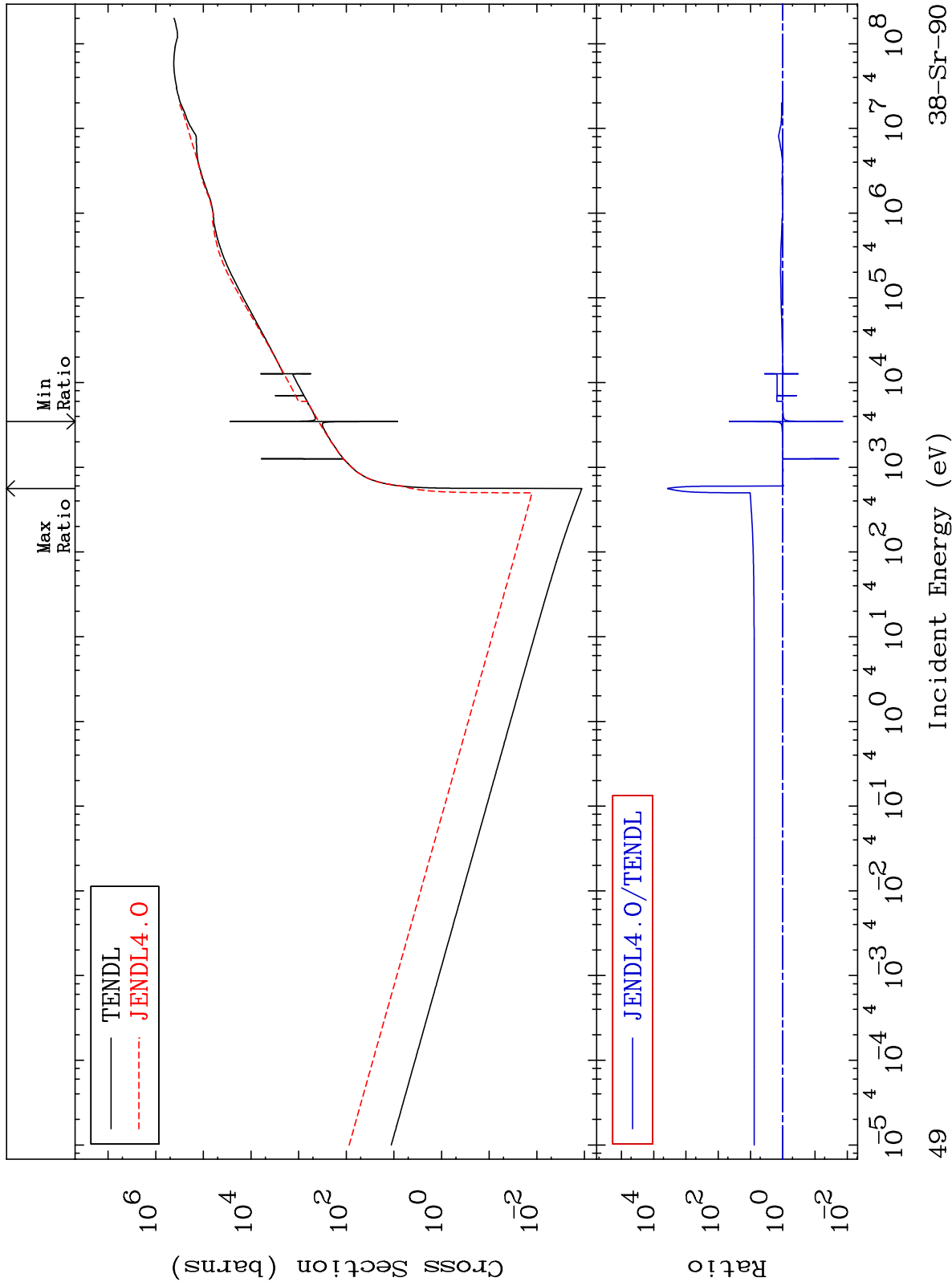
Incident Energy (eV)

38-Sr-90

MAT 3843

Dpa total (eV-barns)
Cross Section

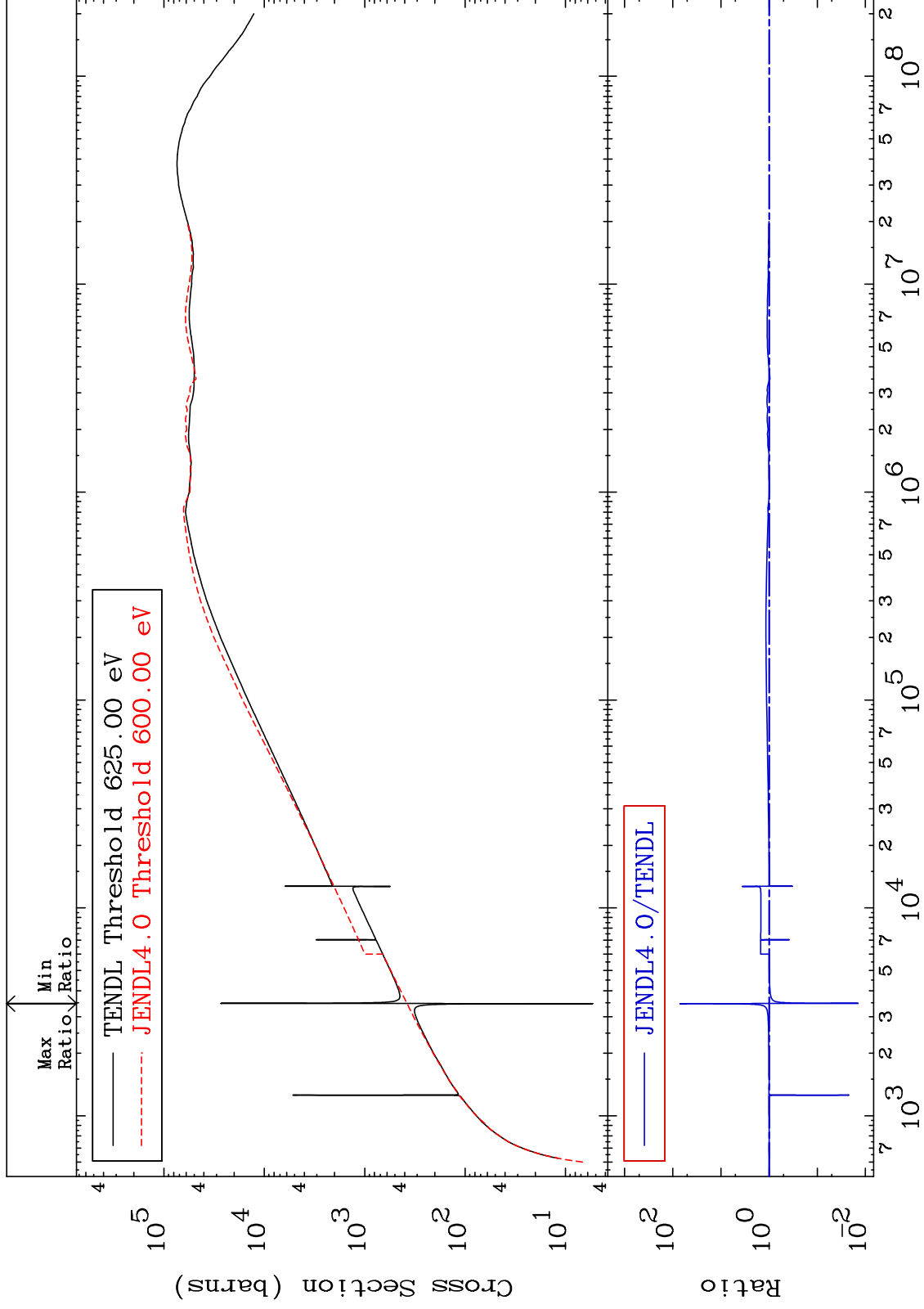
38-Sr-90
-98.61 To 9999. %



MAT 3843

Dpa elastic (mt2)
Cross Section

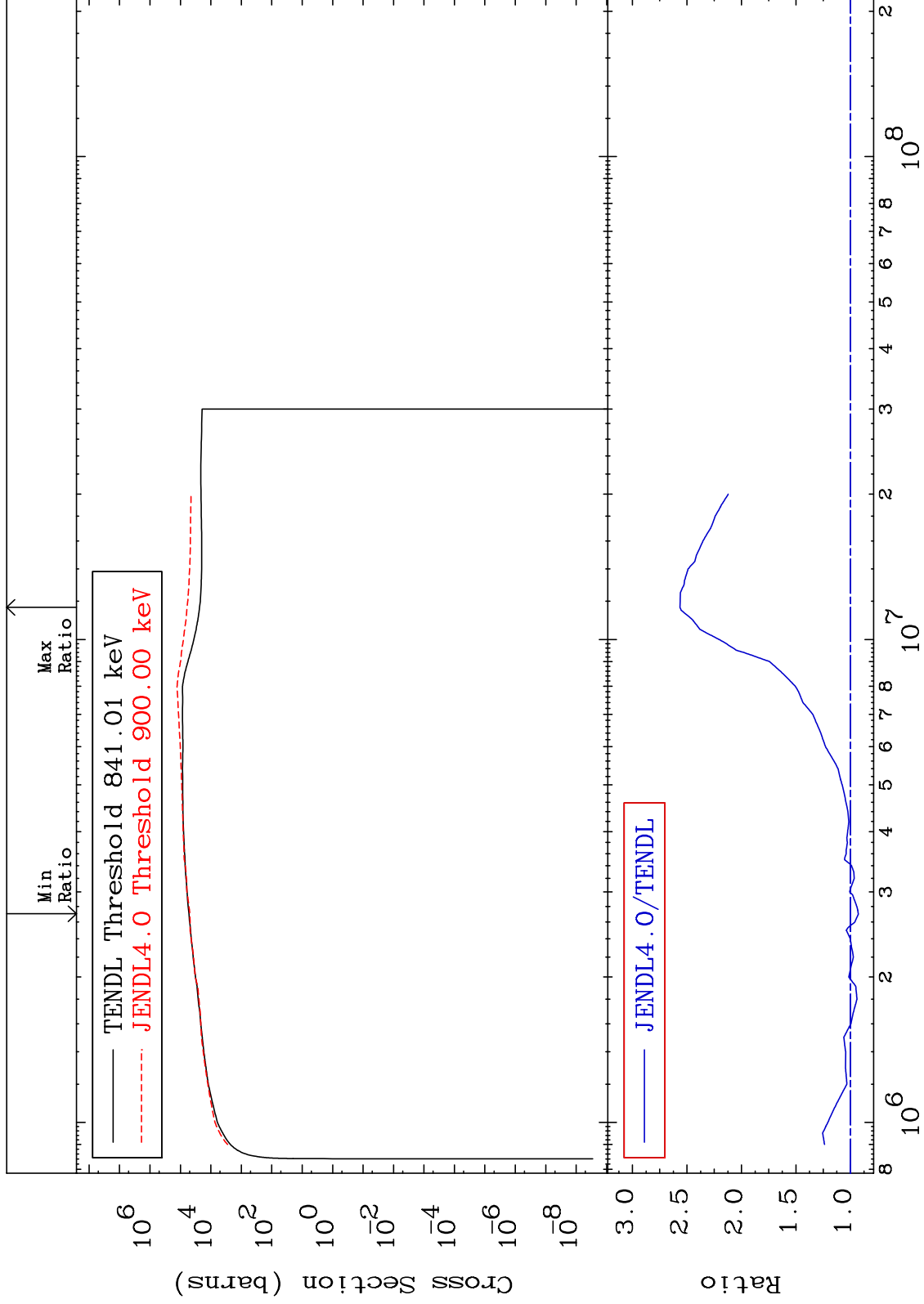
38-Sr-90
-98.60 To 6962. %



MAT 3843

Dpa inelastic (mt51-91)
Cross Section

38-Sr-90
-7.303 To 156.4 %



51

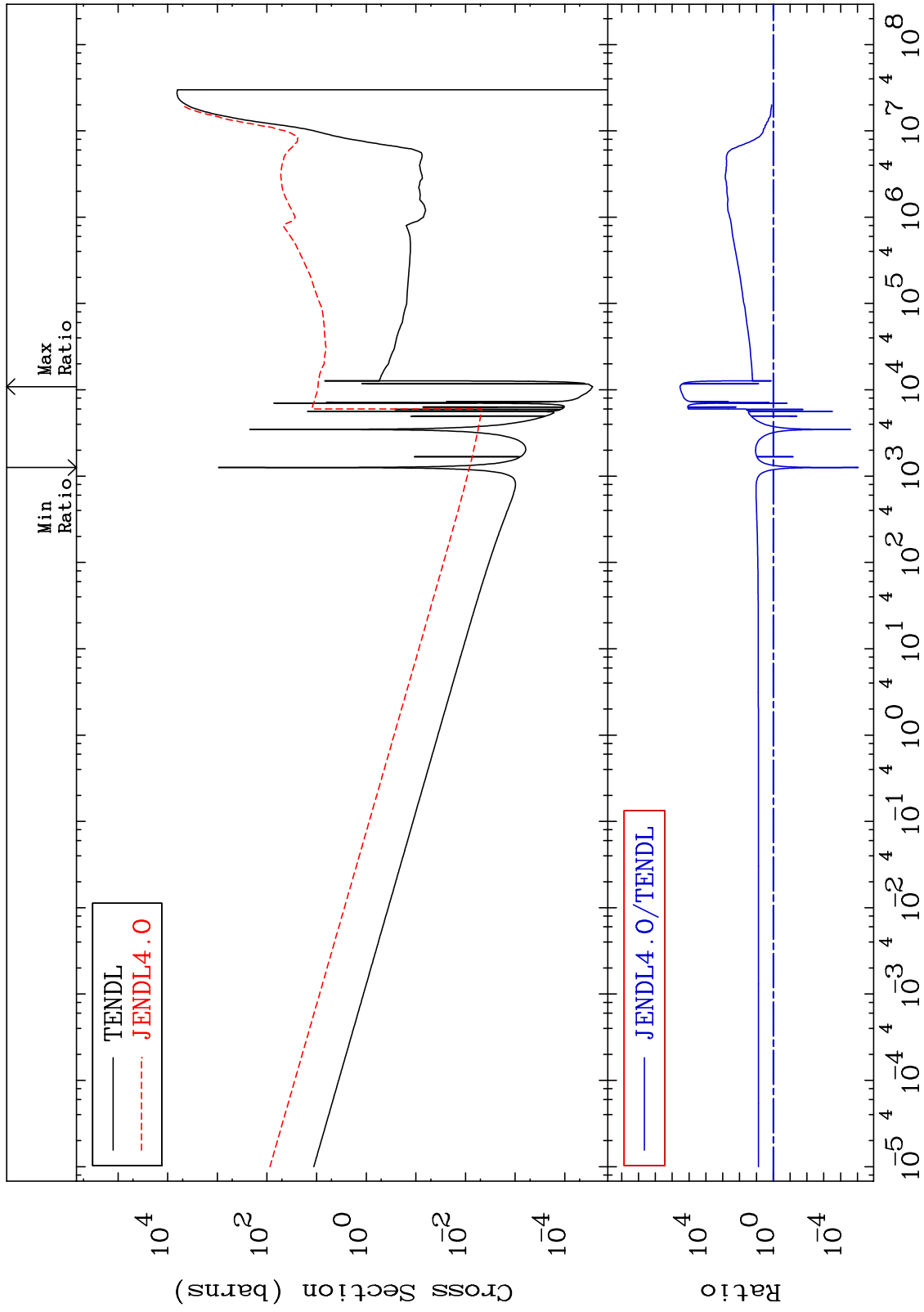
Incident Energy (eV)

38-Sr-90

MAT 3843

Dpa disappearance (mt102 -120)
Cross Section

38-Sr-90
-100.0 To 9999. %



52

Incident Energy (eV)

38-Sr-90

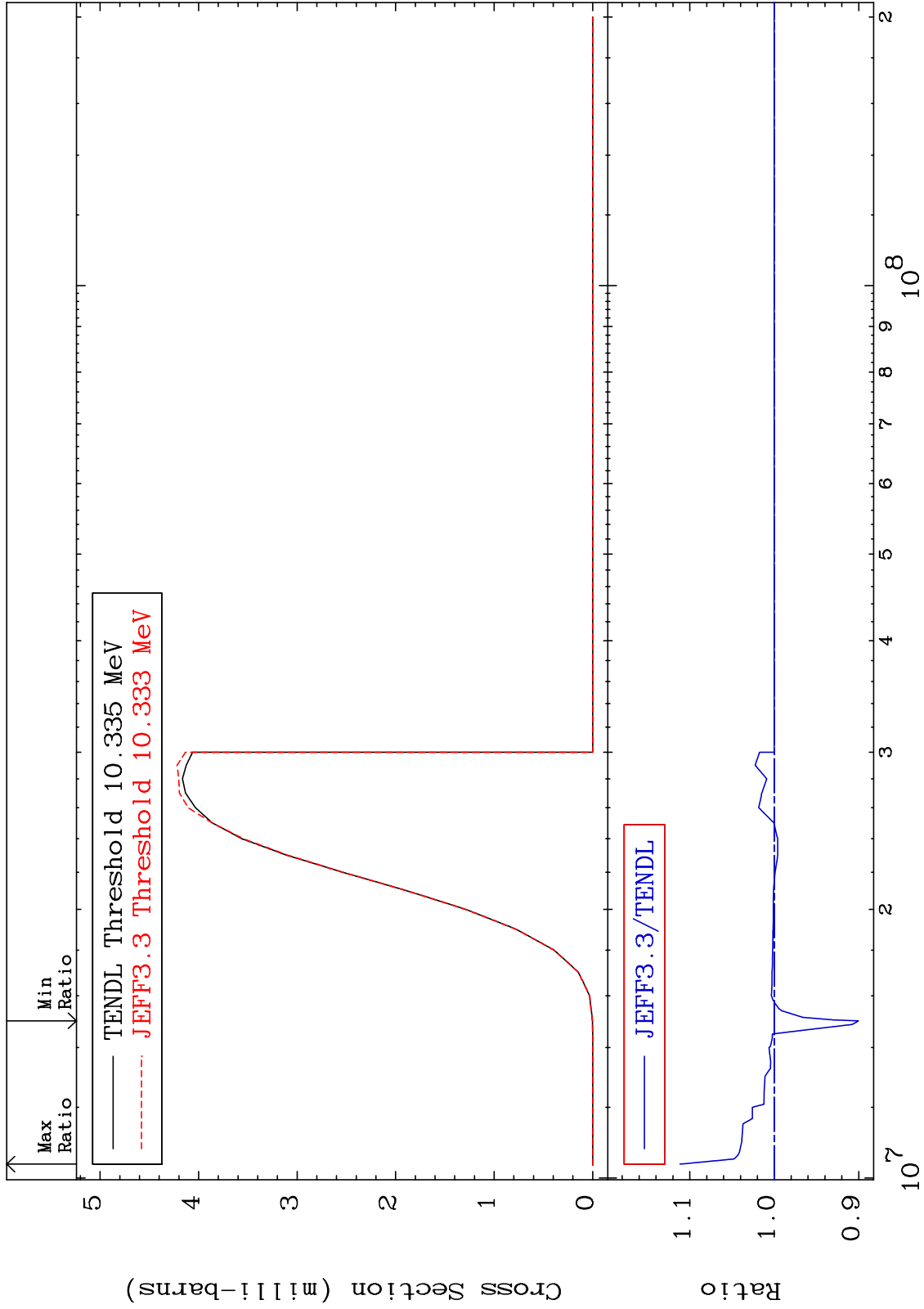
MAT 3843

(n, t)

³⁸Sr-90

Cross Section

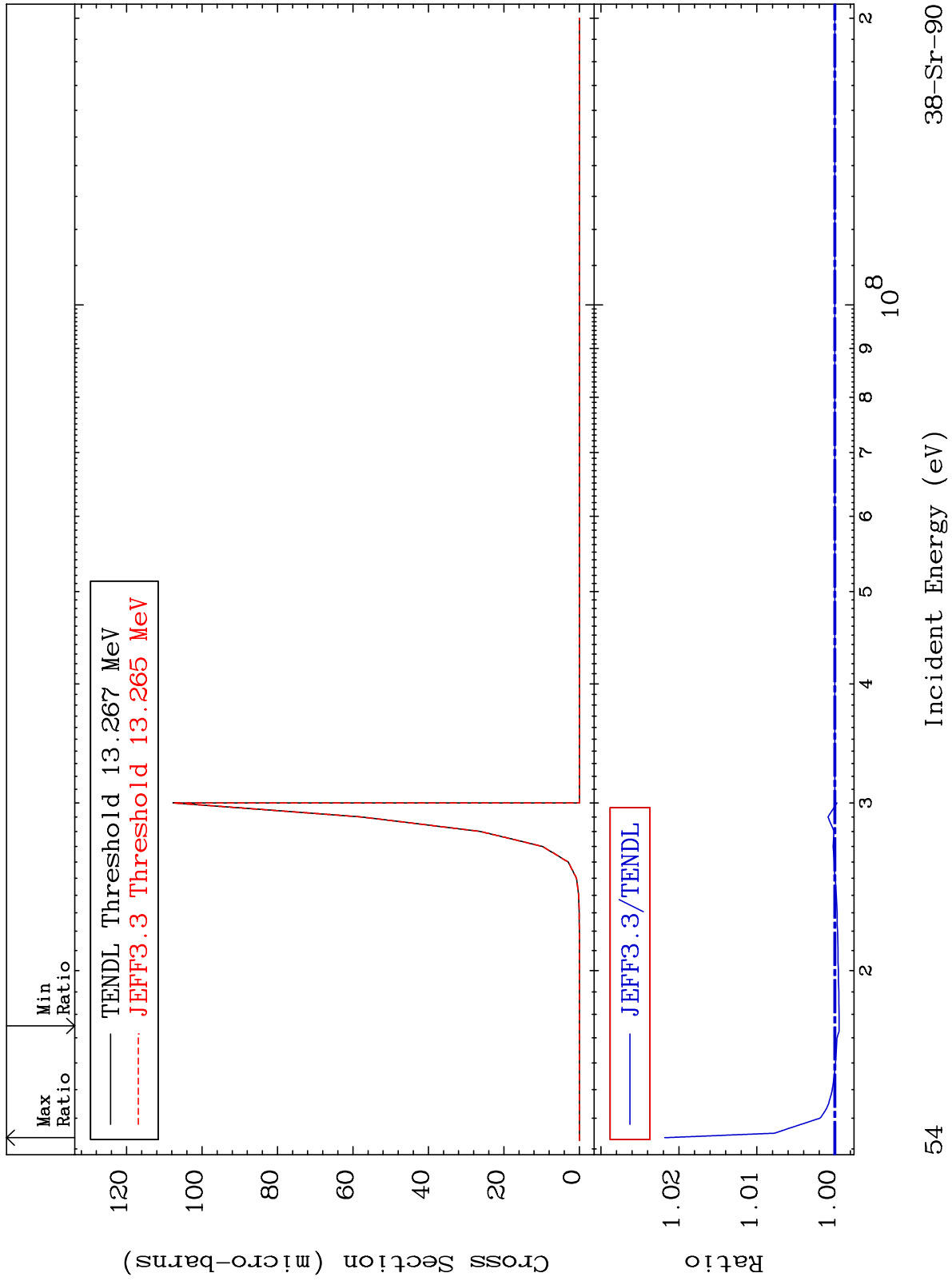
-9.963 To 11.16 %



53

Incident Energy (eV)

³⁸Sr-90



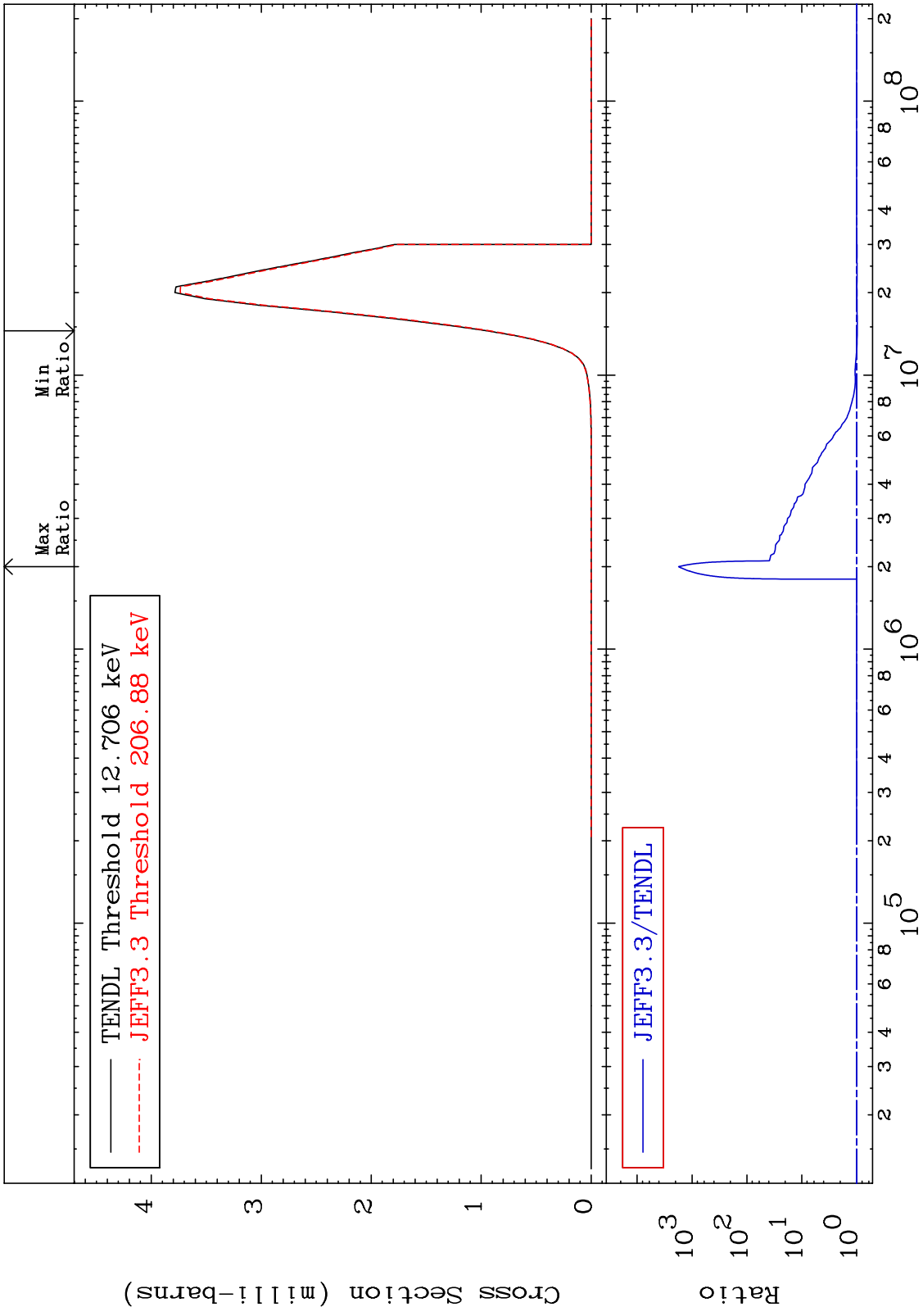
MAT 3843

(n, α)

38-Sr-90

Cross Section

-2.714 To 9999. %



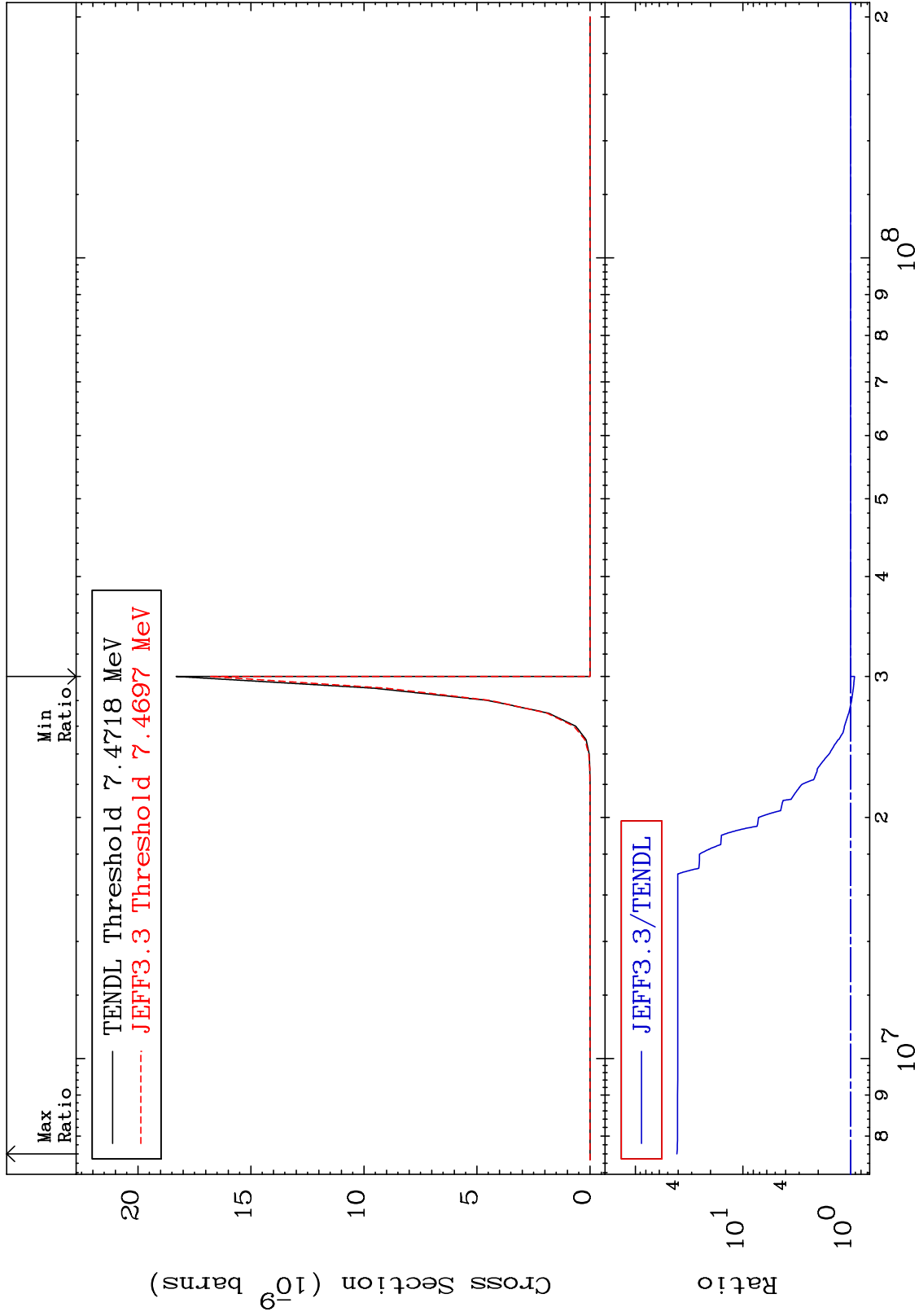
MAT 3843

(n, 2α)

38-Sr-90

Cross Section

-8.196 To 4006. %



56

Incident Energy (eV)

38-Sr-90

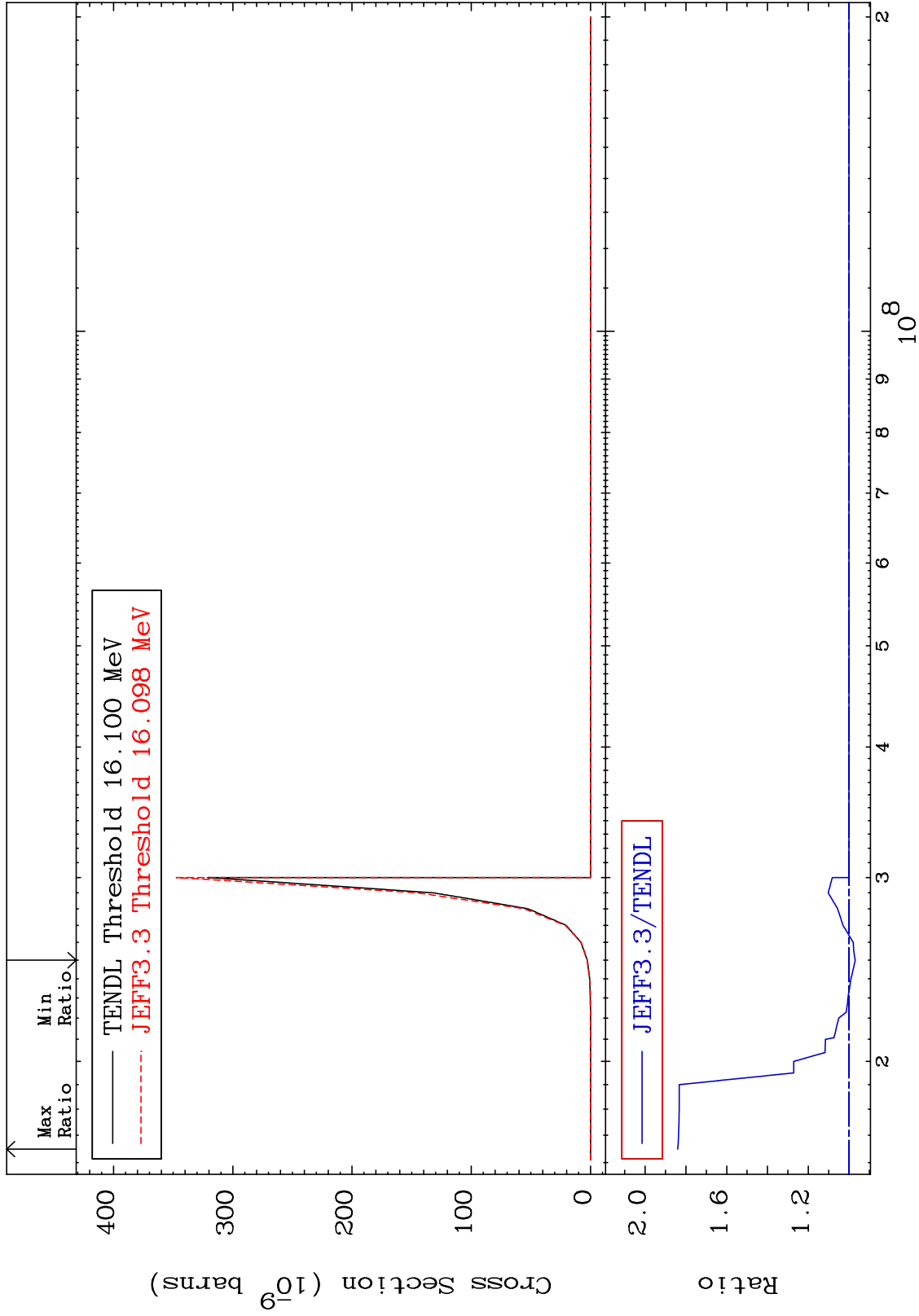
MAT 3843

(n,2p)

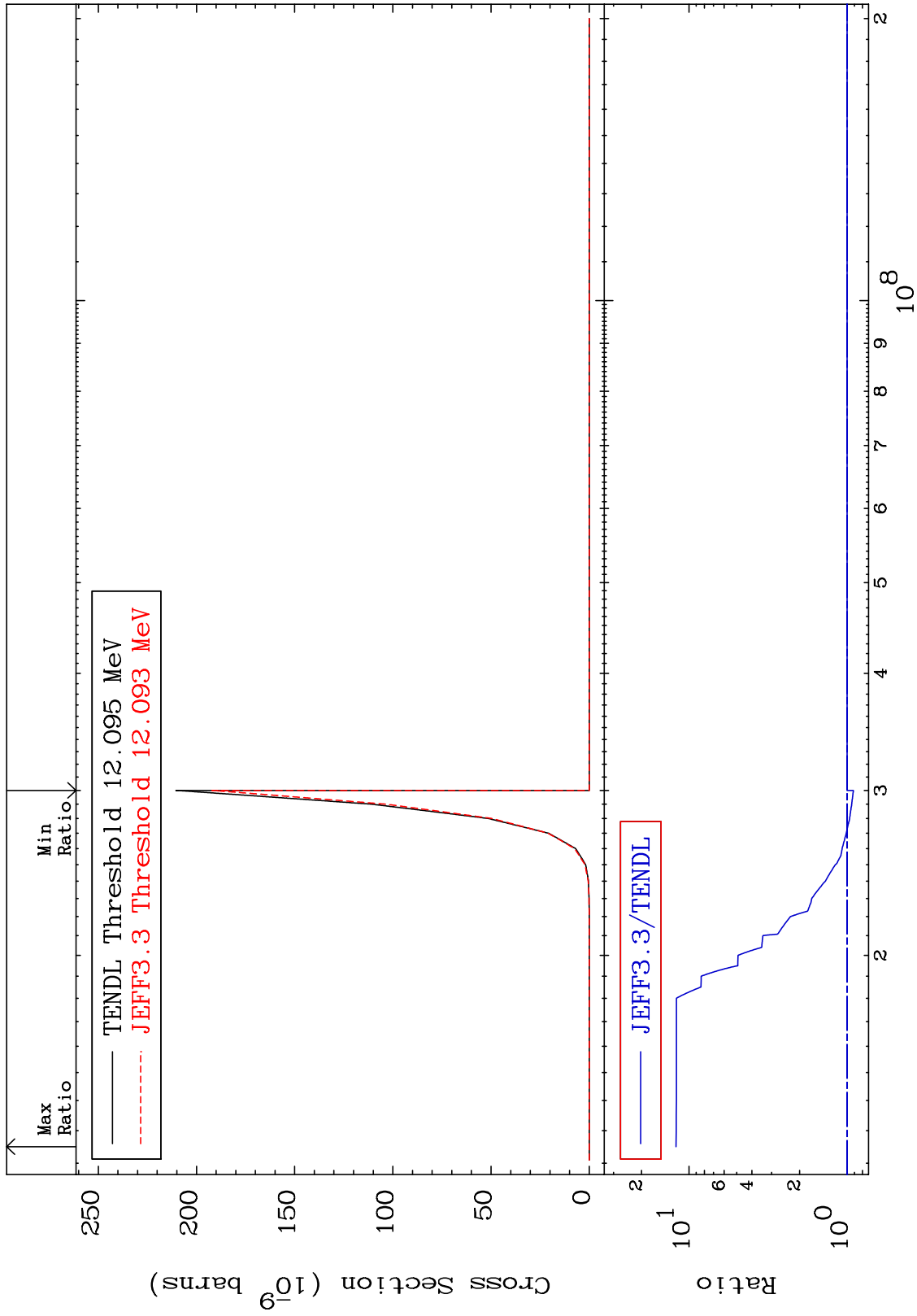
38-Sr-90

Cross Section

-3.067 To 84.11 %



MAT 3843 (n,p) α 38-Sr-90
 Cross Section -8.759 To 1108. %



38-Sr-90

Incident Energy (eV)

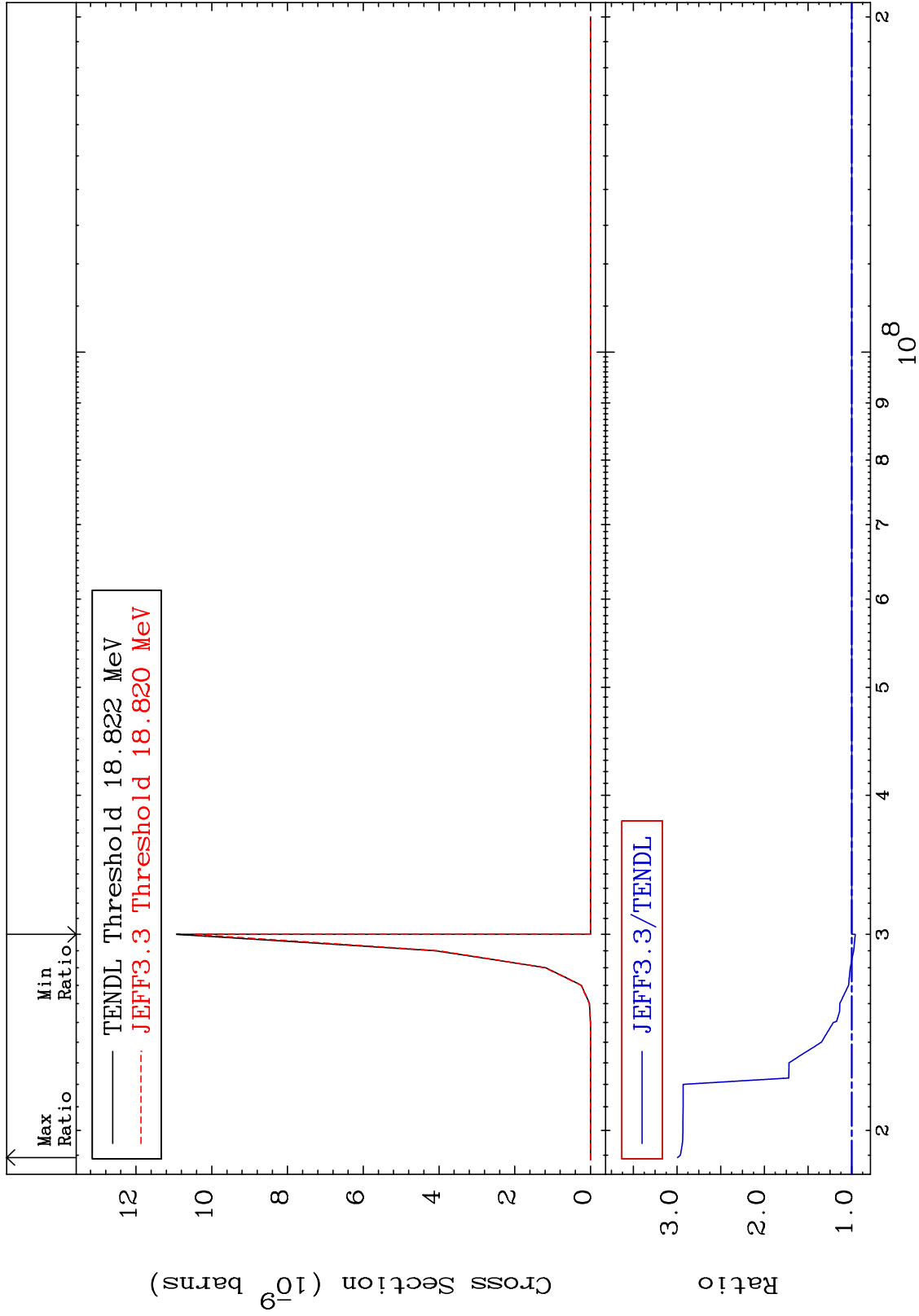
MAT 3843

(n,p) d

38-Sr-90

Cross Section

-3.984 To 199.4 %



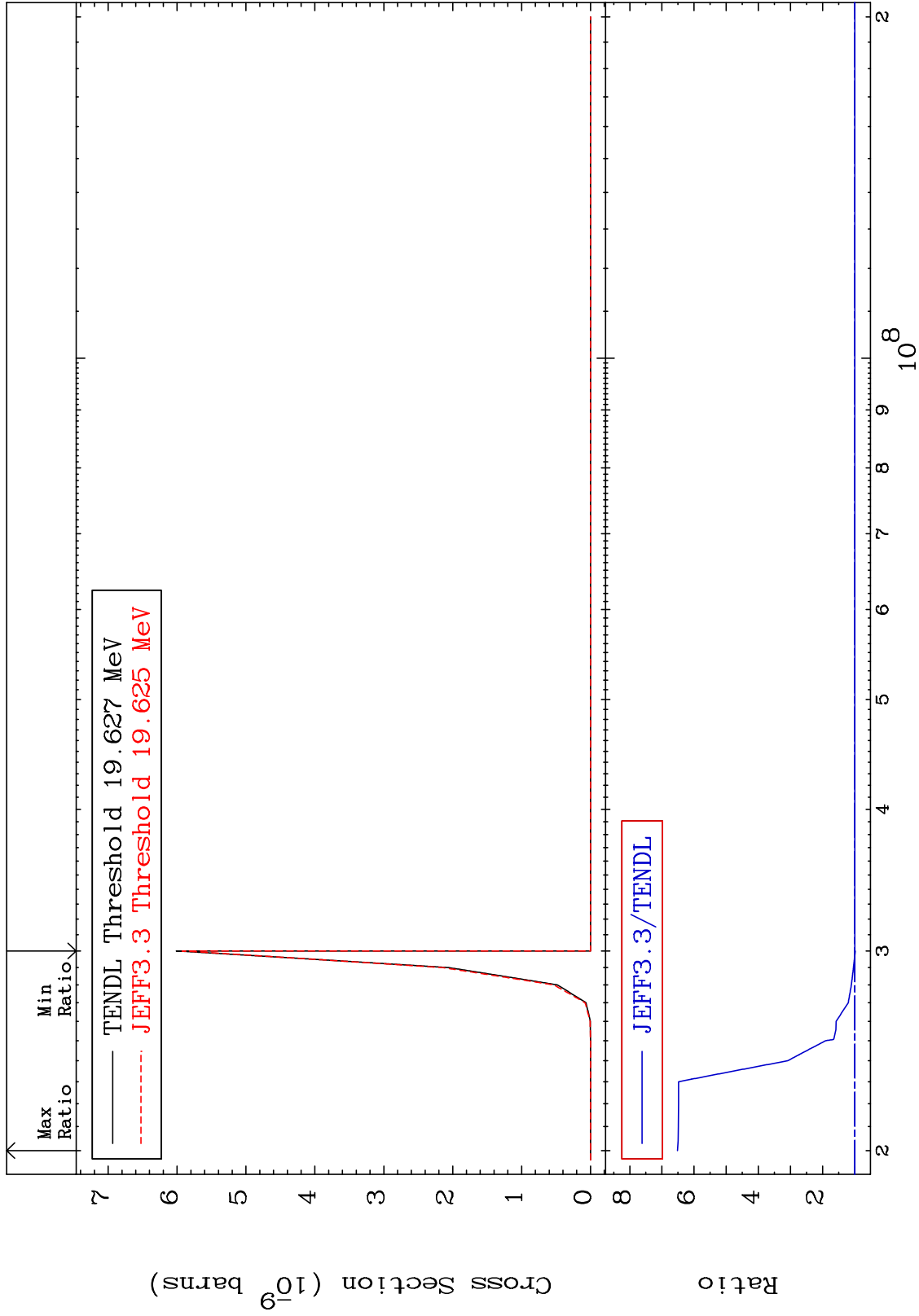
MAT 3843

(n,p) t

38-Sr-90

Cross Section

-1.412 To 551.4 %



60

38-Sr-90

38-Sr-90

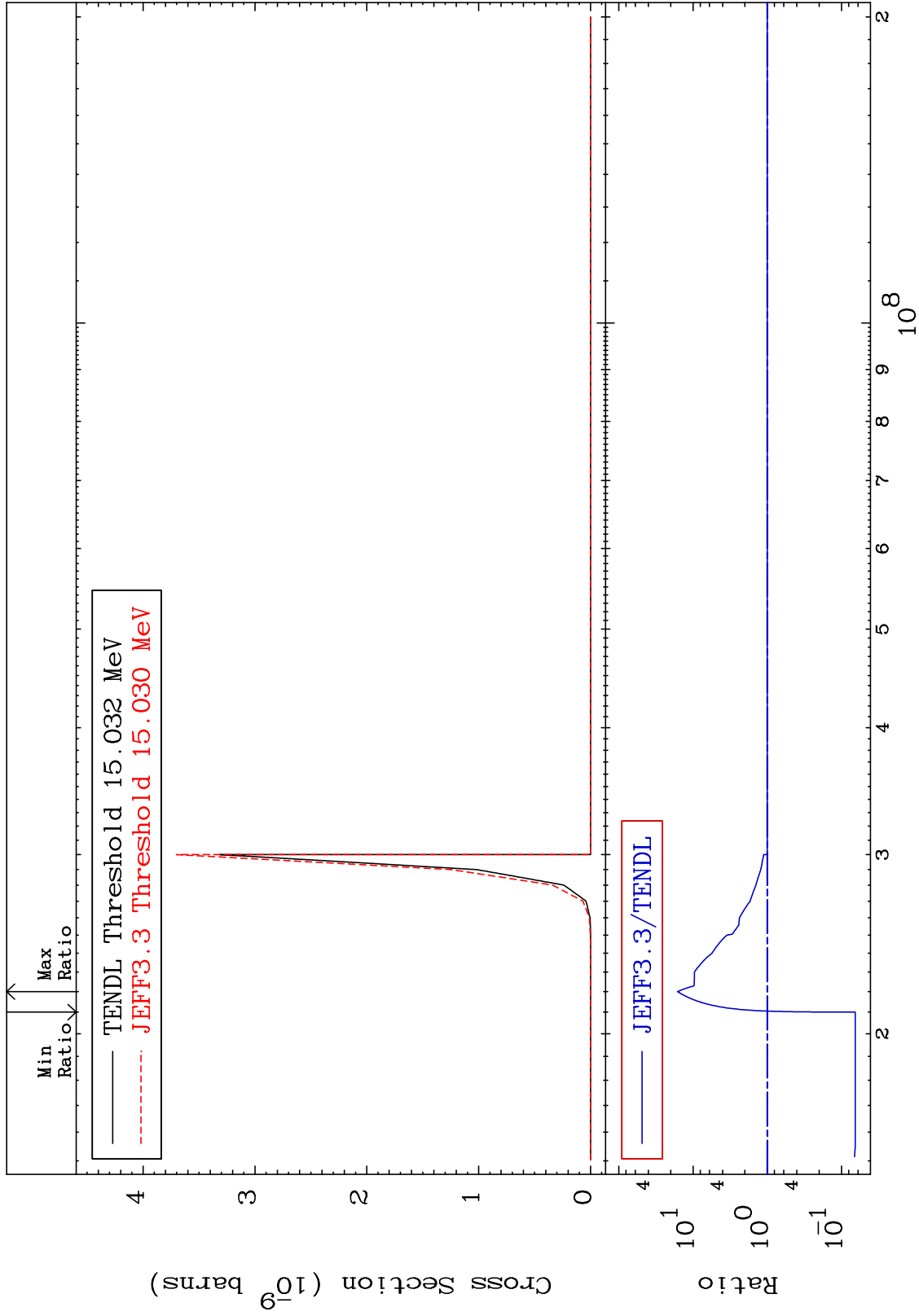
MAT 3843

(n,d) α

38-Sr-90

Cross Section

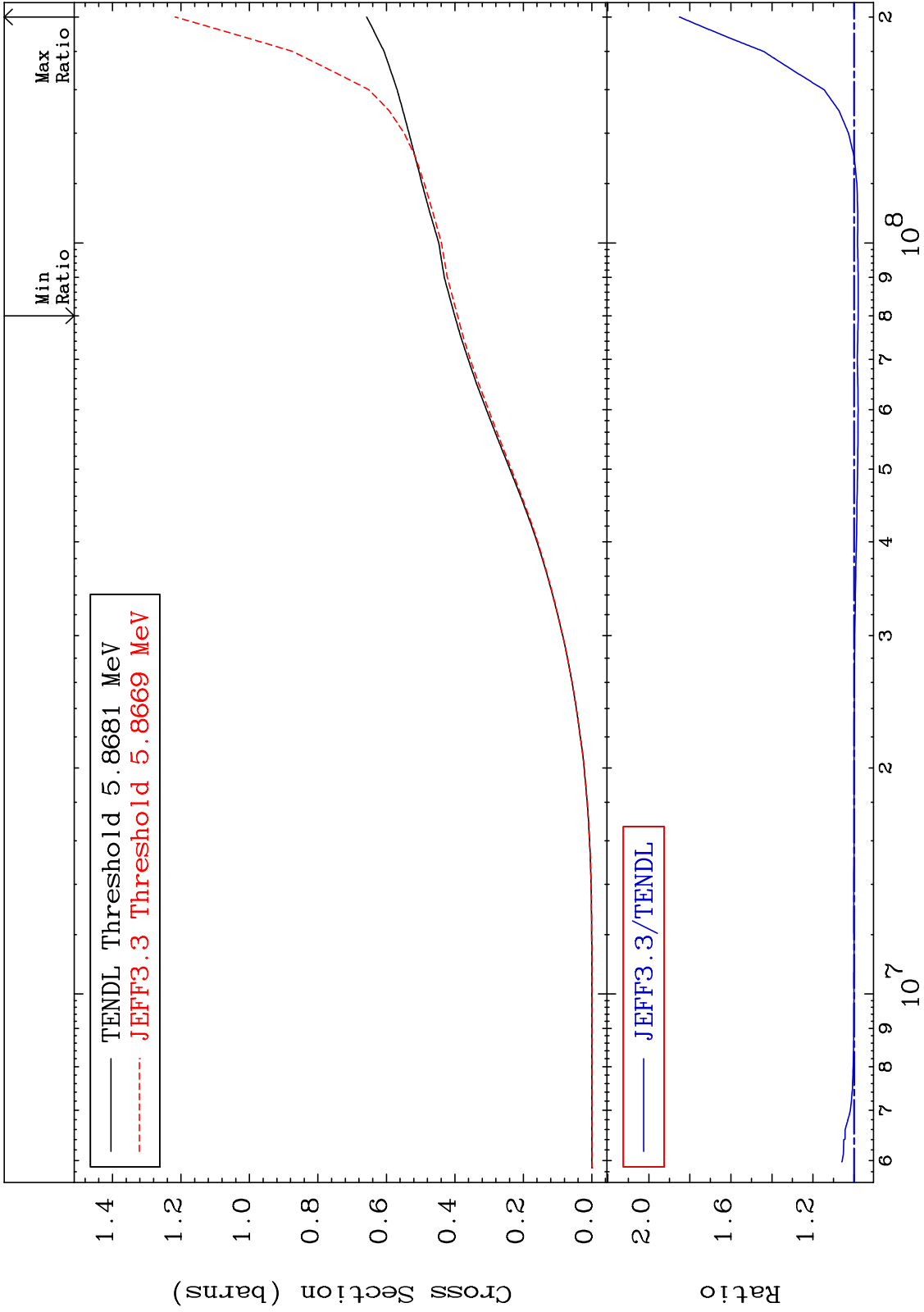
-93.47 To 1518. %



MAT 3843

Hydrogen Production
Cross Section

38-Sr-90
-2.079 To 85.13 %



62

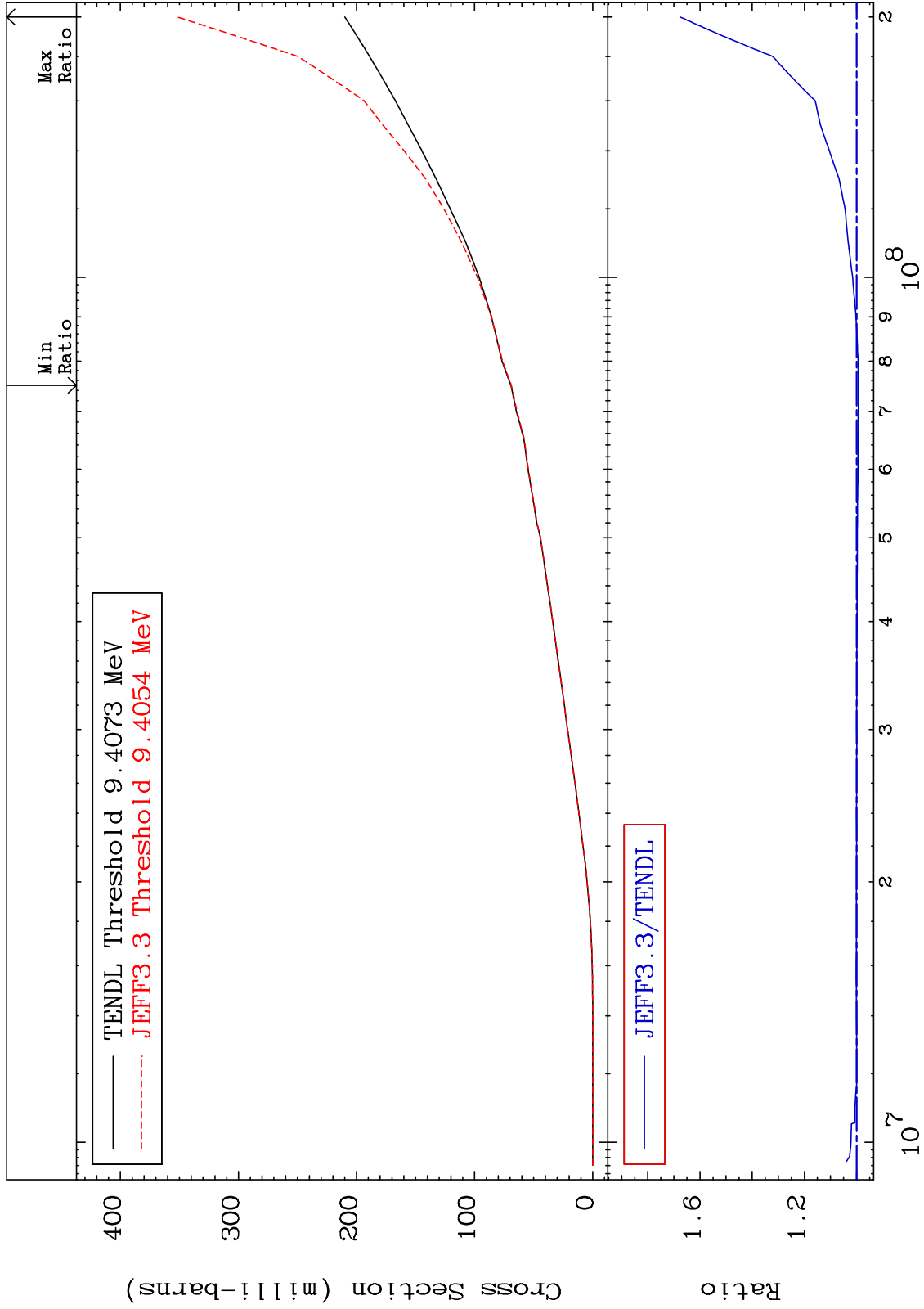
Incident Energy (eV)

38-Sr-90

MAT 3843

Deuterium Production
Cross Section

38-Sr-90
-0.687 To 67.64 %



63

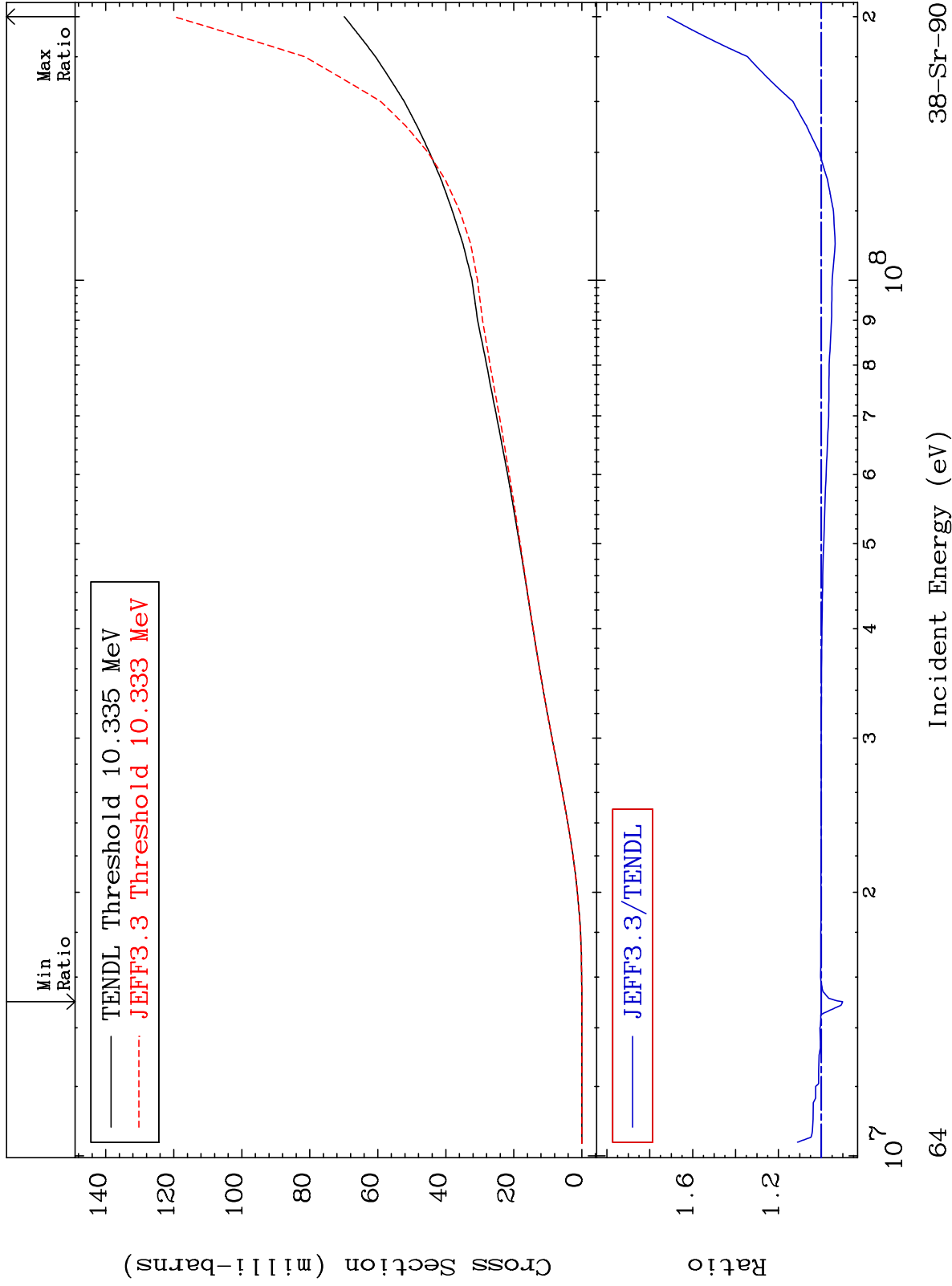
Incident Energy (eV)

38-Sr-90

MAT 3843

Tritium Production
Cross Section

$^{38}\text{Sr-90}$
-9.963 To 71.72 %



64

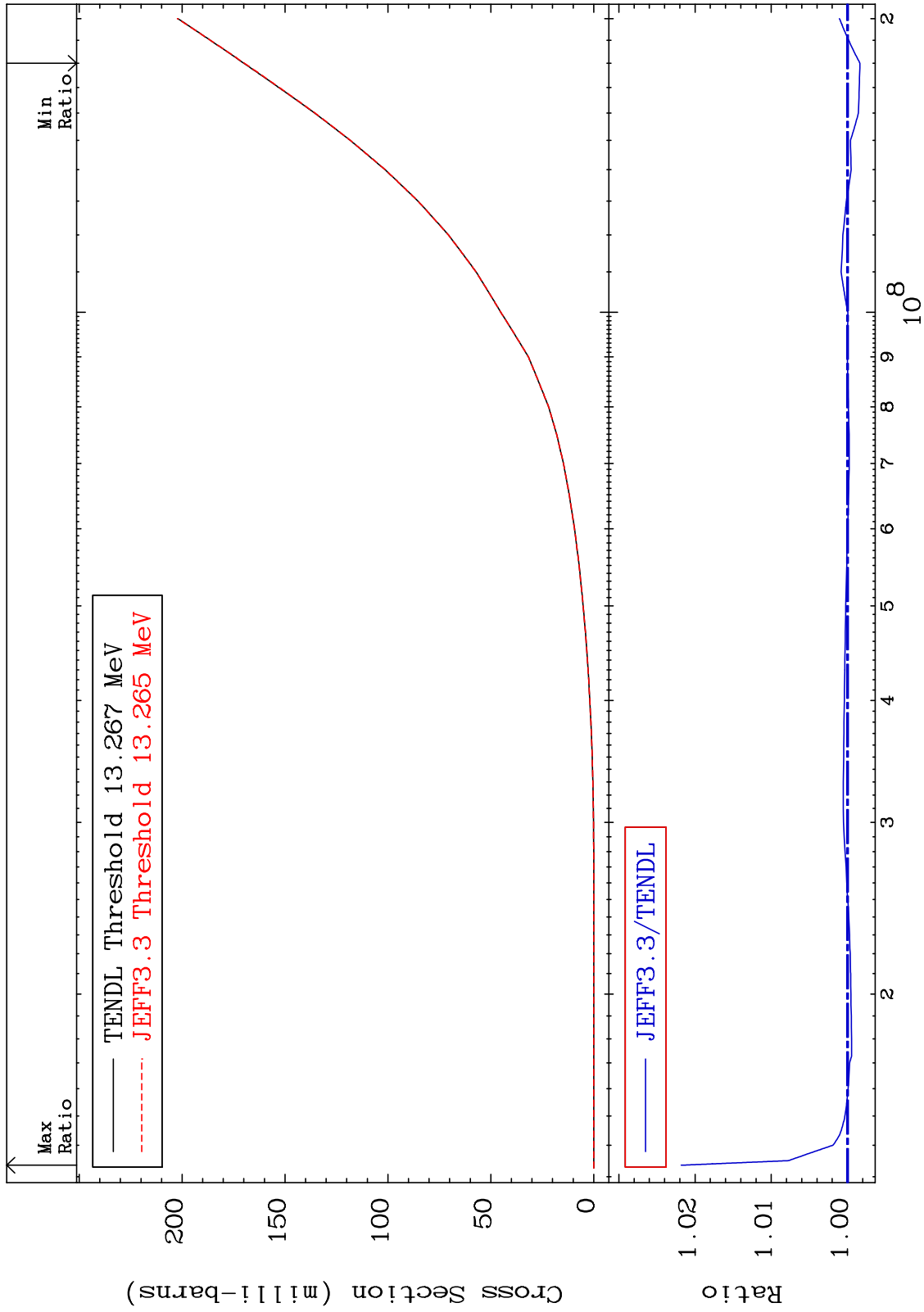
Incident Energy (eV)

$^{38}\text{Sr-90}$

MAT 3843

He-3 Production
Cross Section

38-Sr-90
-0.164 To 2.182 %



65

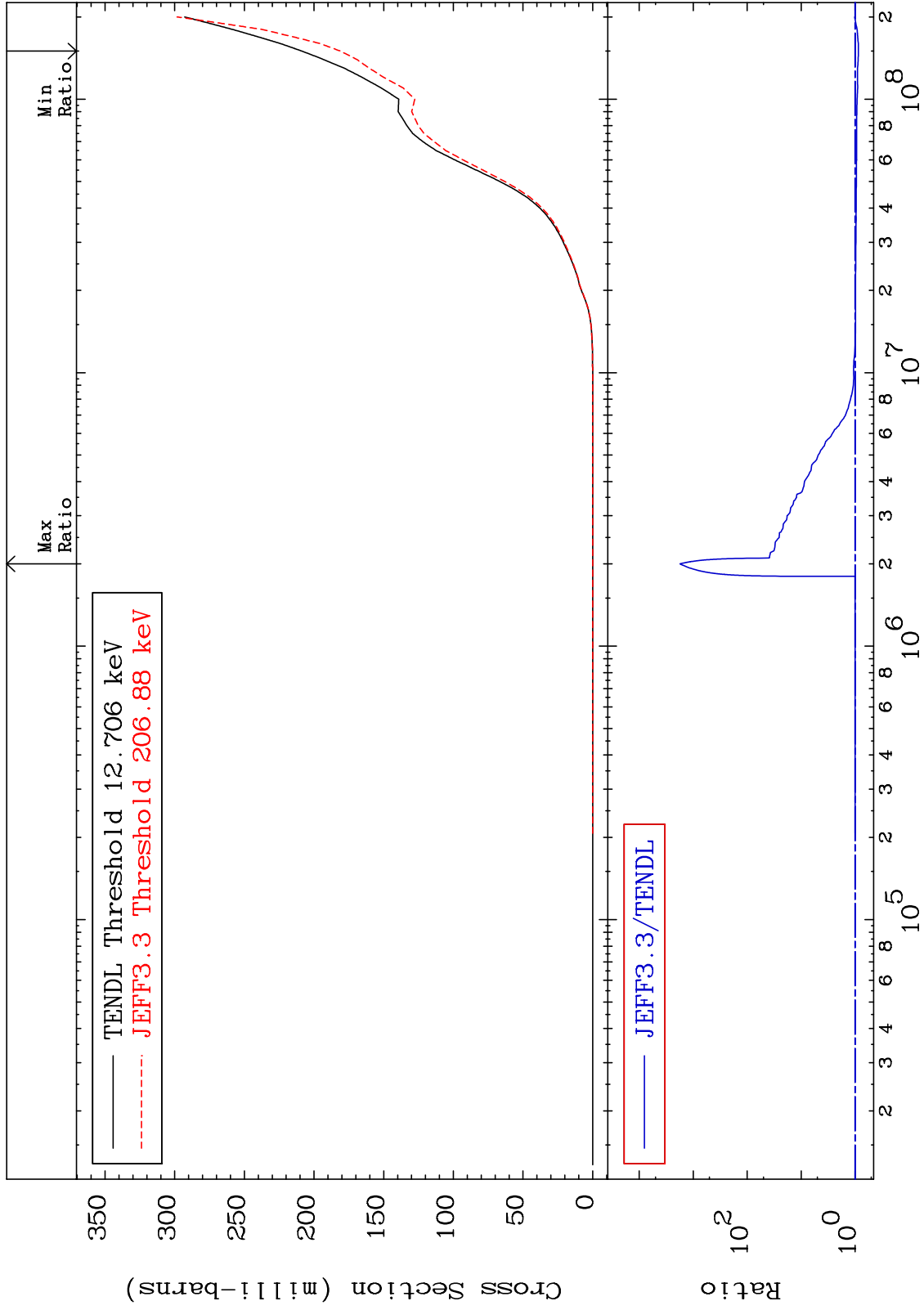
Incident Energy (eV)

38-Sr-90

MAT 3843

He-4 Production
Cross Section

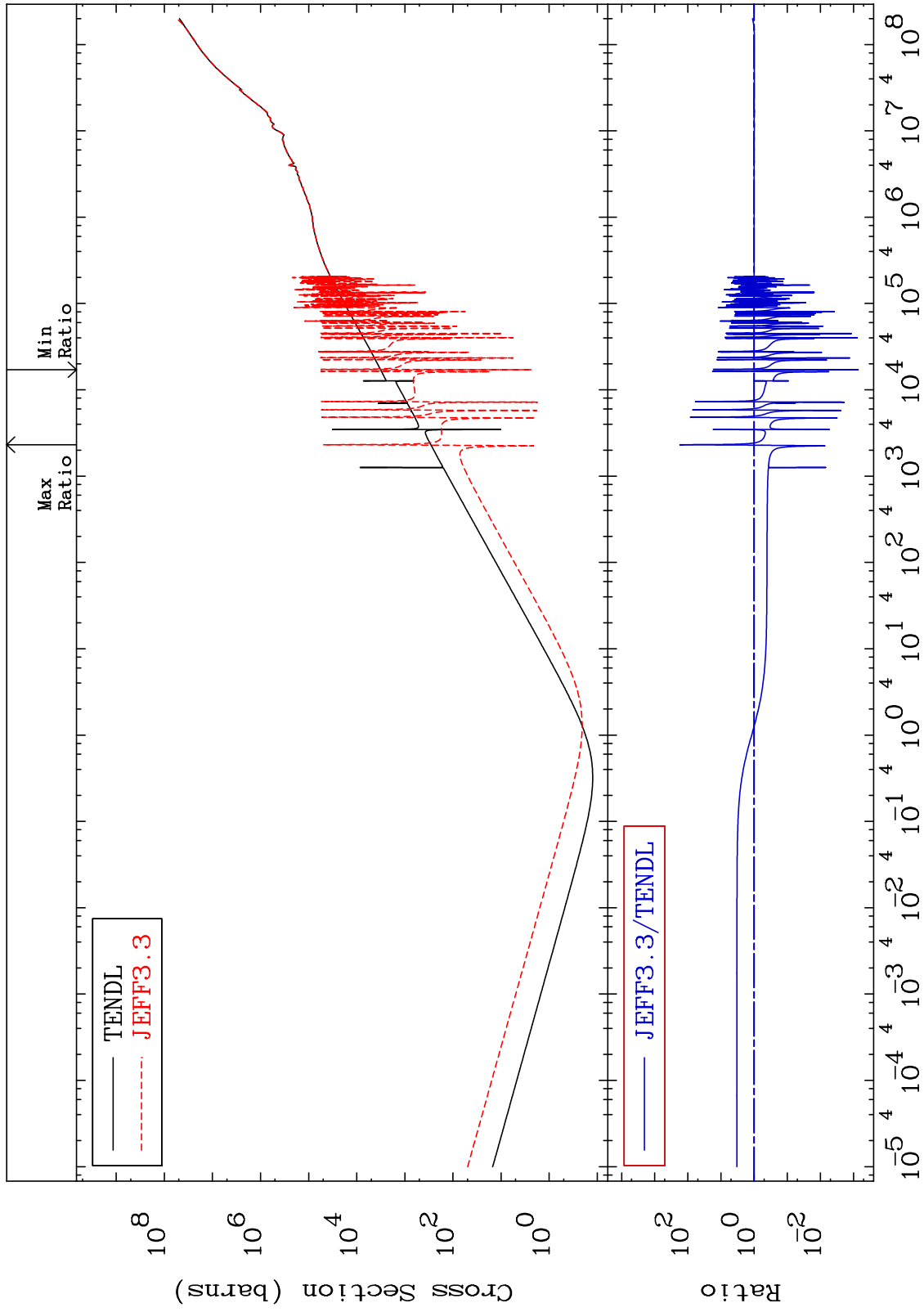
38-Sr-90
-13.21 To 9999. %



MAT 3843

Kerma total (eV-barns)
Cross Section

38-Sr-90
-99.93 To 9999. %



67

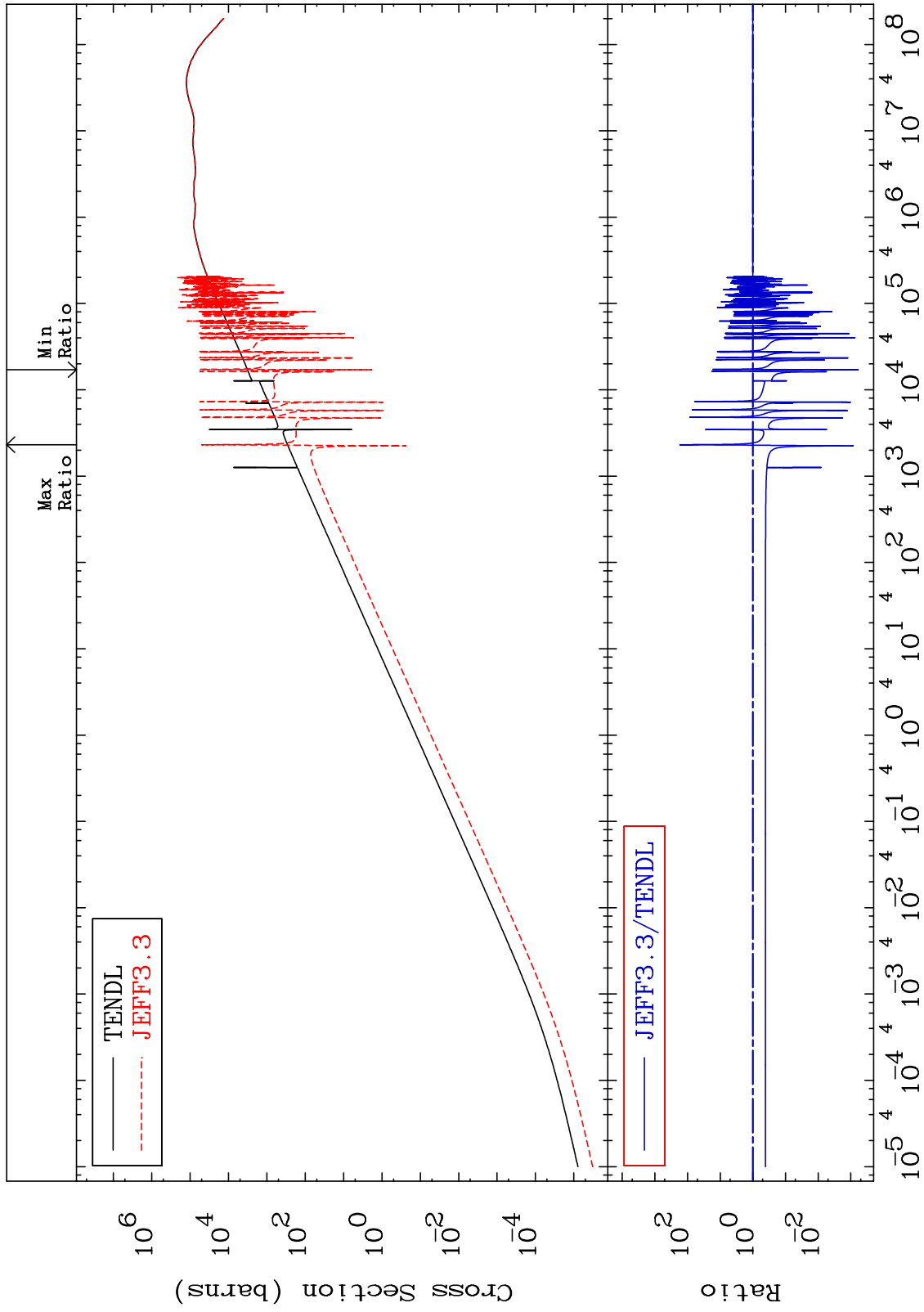
Incident Energy (eV)

38-Sr-90

MAT 3843

Kerma elastic
Cross Section

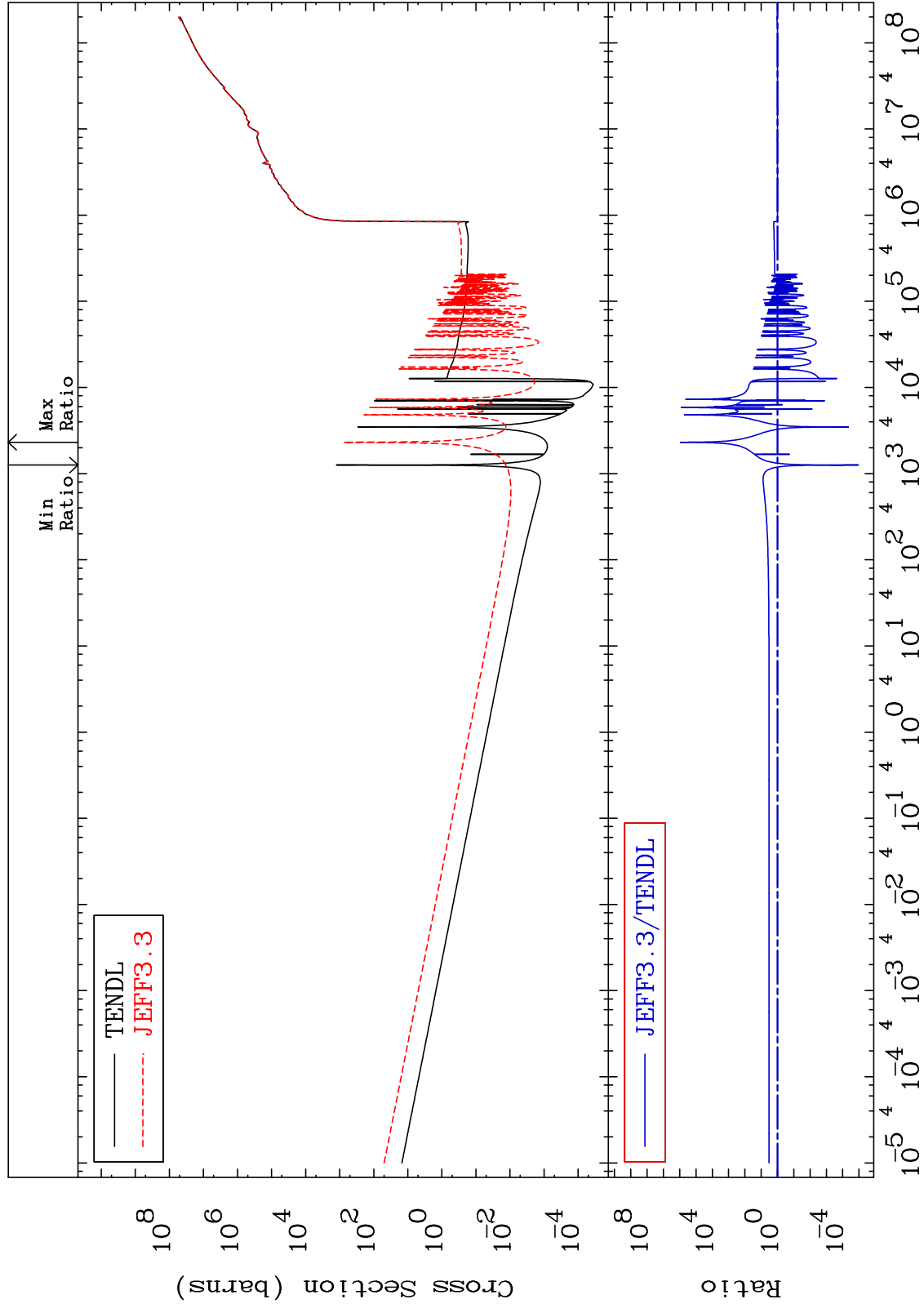
38-Sr-90
-99.94 To 9999. %



MAT 3843

Kerma non-elastic (all but mt2)
Cross Section

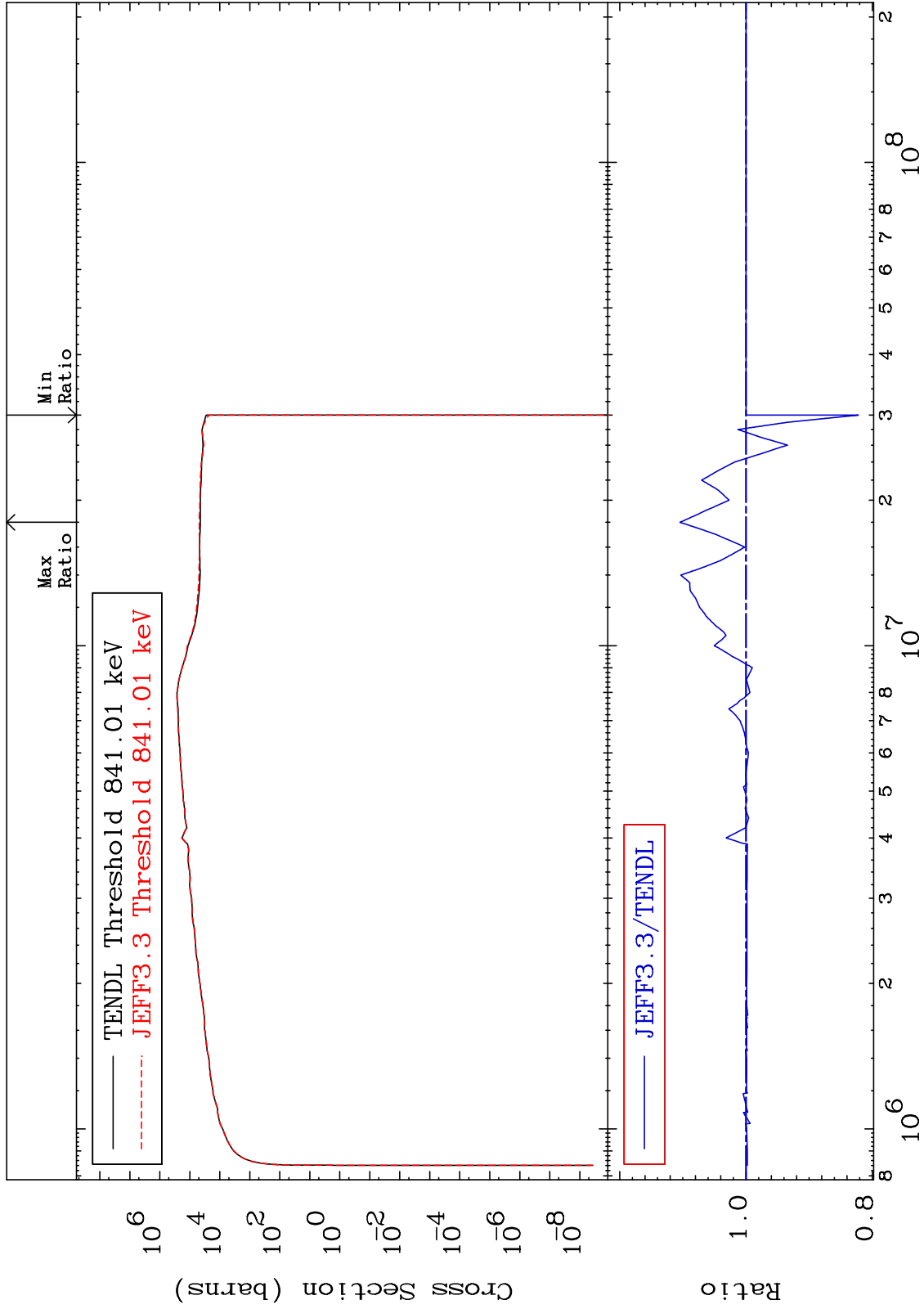
38-Sr-90
-100.0 To 9999. %



MAT 3843

Kerma inelastic (mt51-91)
Cross Section

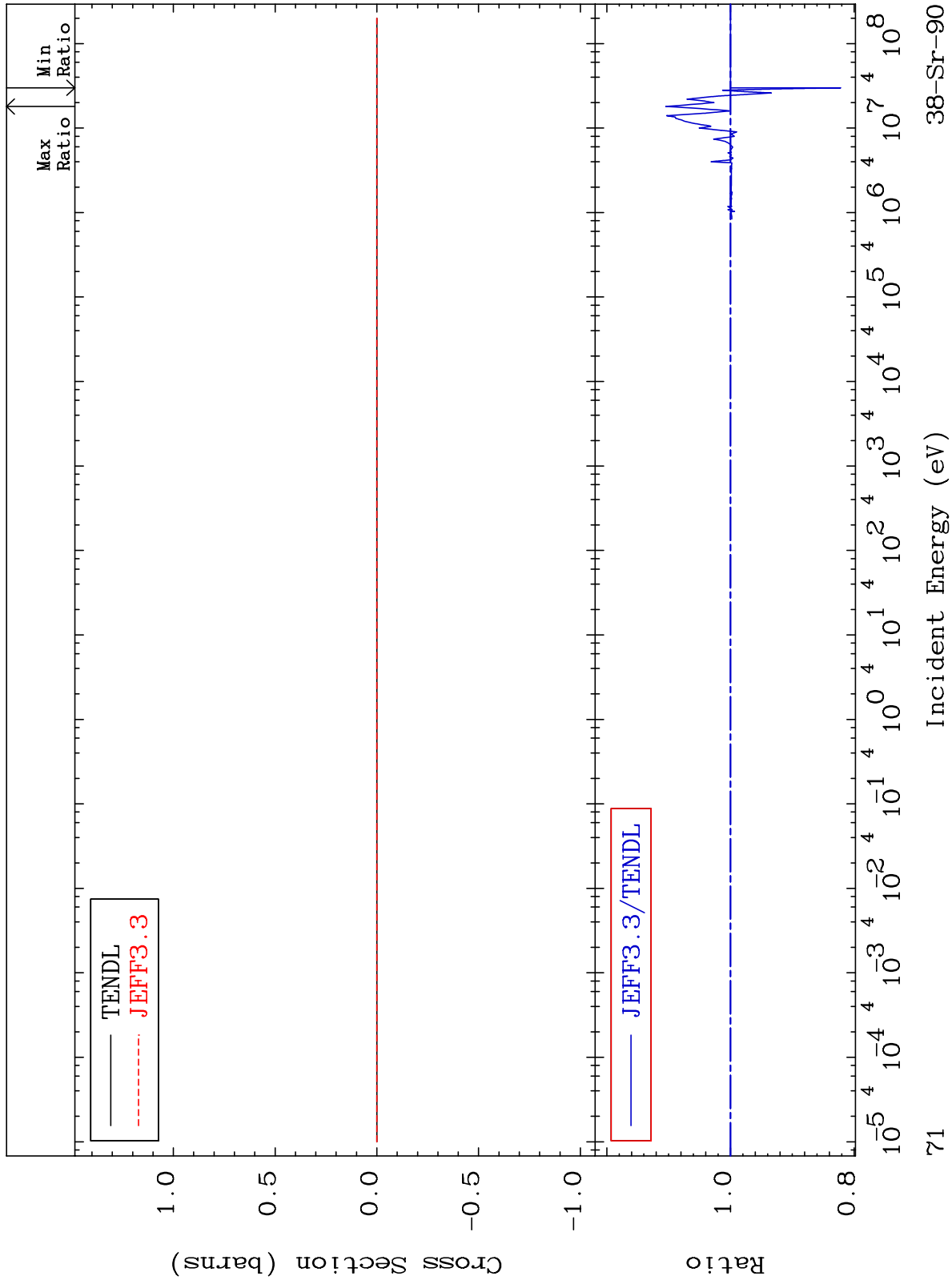
38-Sr-90
-17.80 To 10.45 %



MAT 3843

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

38-Sr-90
-17.80 To 10.45 %



71

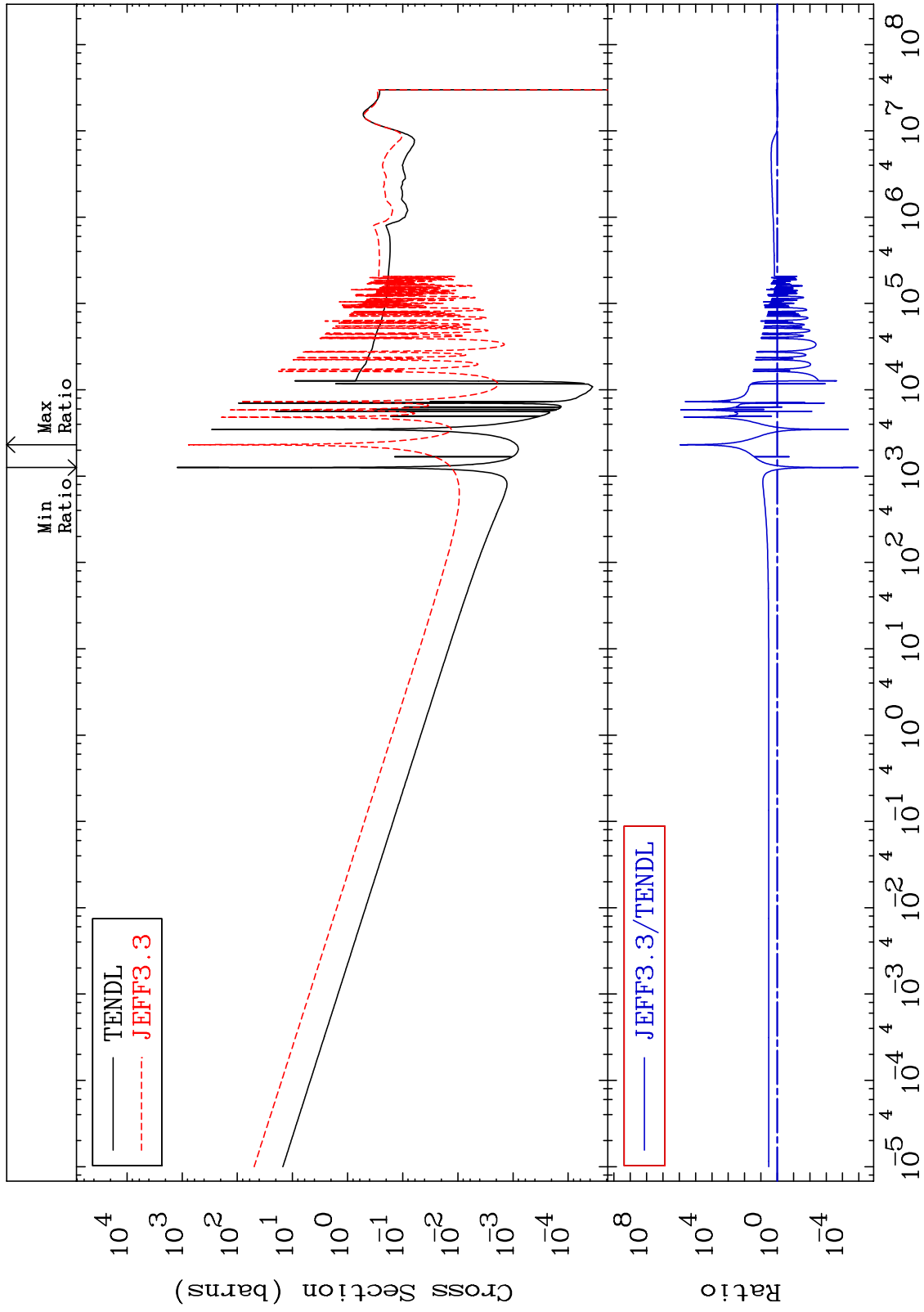
Incident Energy (eV)

38-Sr-90

MAT 3843

Kerma capture (mt102)
Cross Section

38-Sr-90
-100.0 To 9999. %



72

Incident Energy (eV)

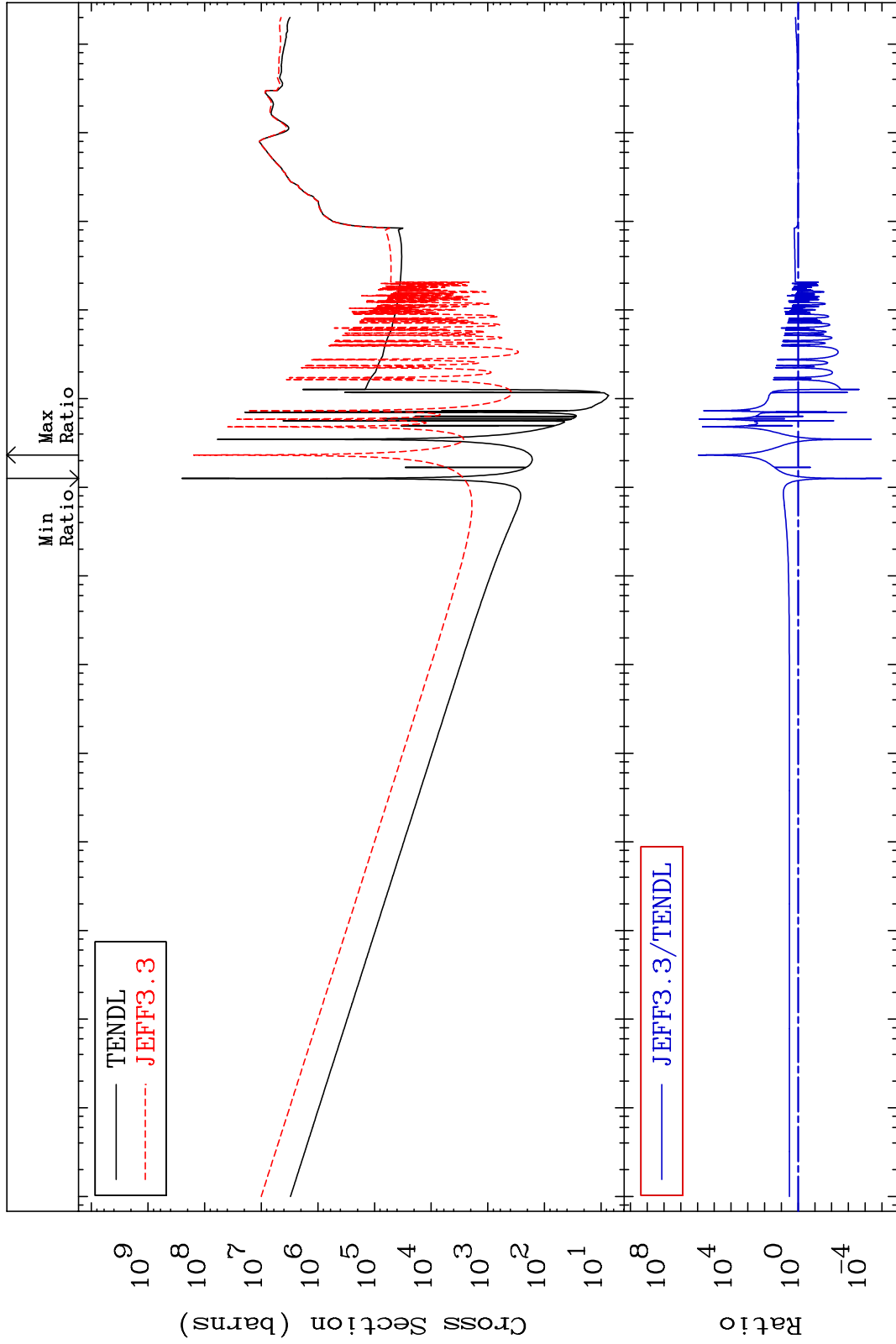
38-Sr-90

MAT 3843

Total photon (eV-barns)
Cross Section

38-Sr-90

-100.0 To 9999. %



Incident Energy (eV)

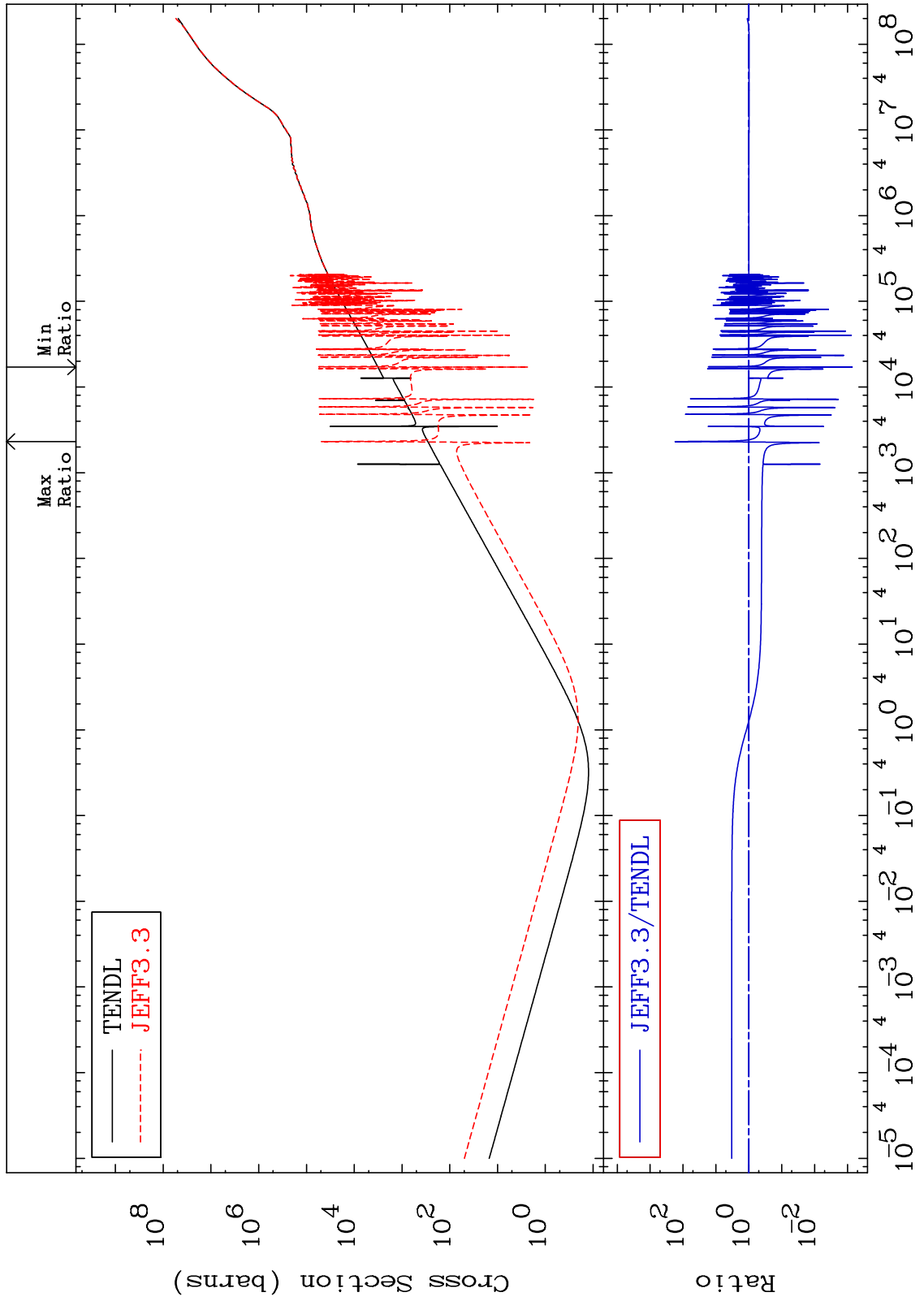
38-Sr-90

73

MAT 3843

Total kinematic kerma (high limit)
Cross Section

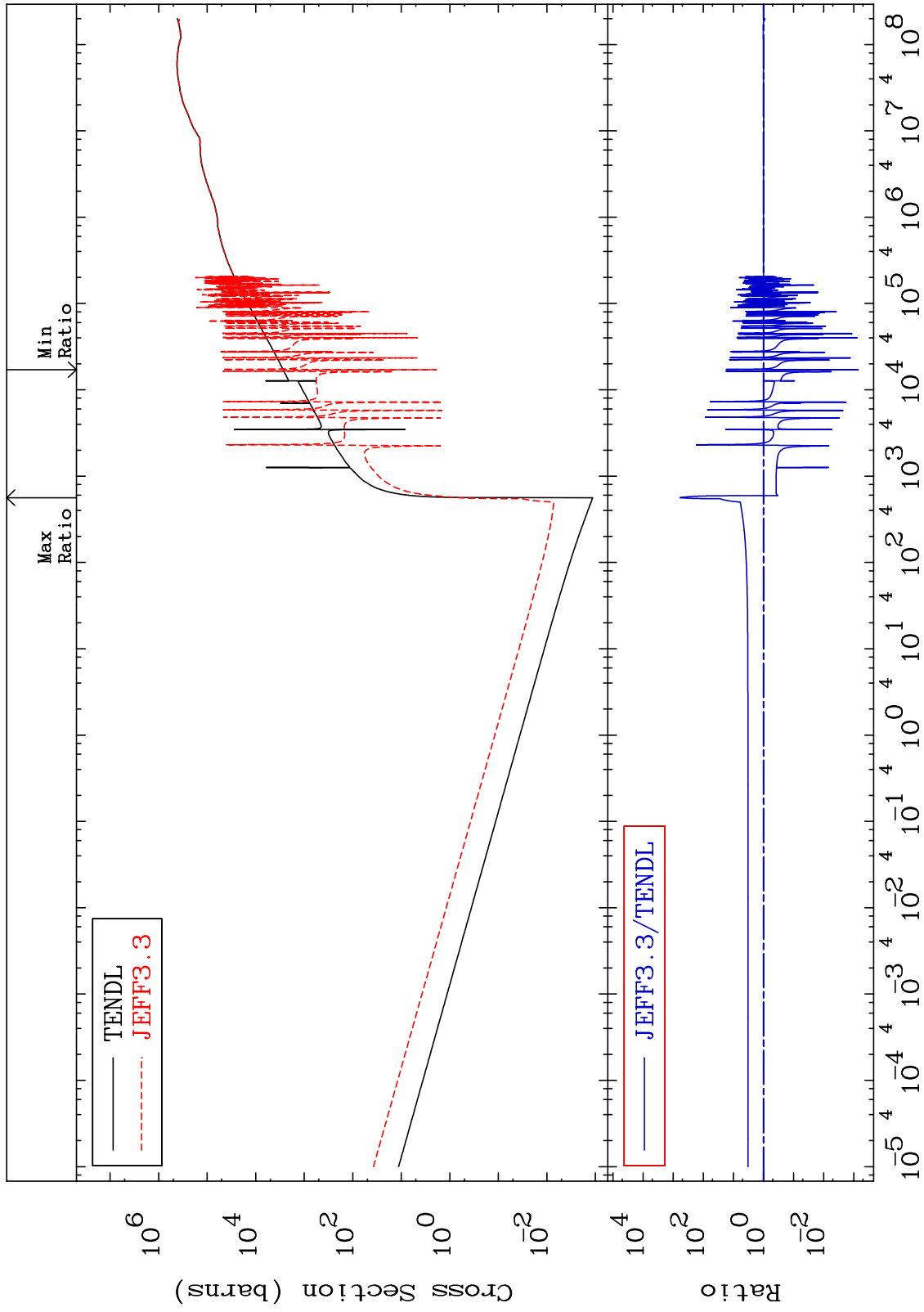
38-Sr-90
-99.93 To 9999. %



MAT 3843

Dpa total (eV-barns)
Cross Section

38-Sr-90
-99.93 To 9999. %



75

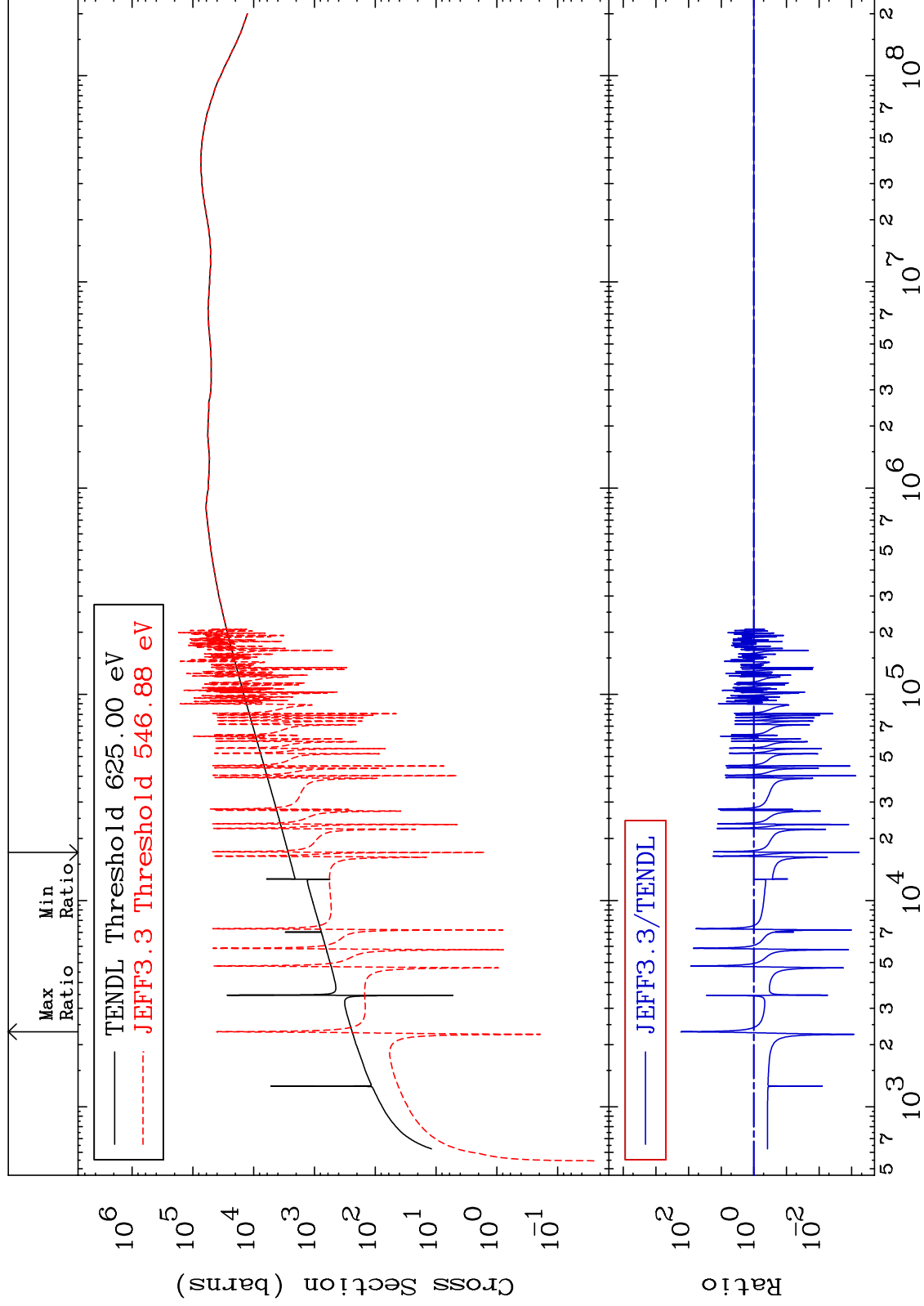
Incident Energy (eV)

38-Sr-90

MAT 3843

Dpa elastic (mt2)
Cross Section

38-Sr-90
-99.94 To 9999. %



76

38-Sr-90

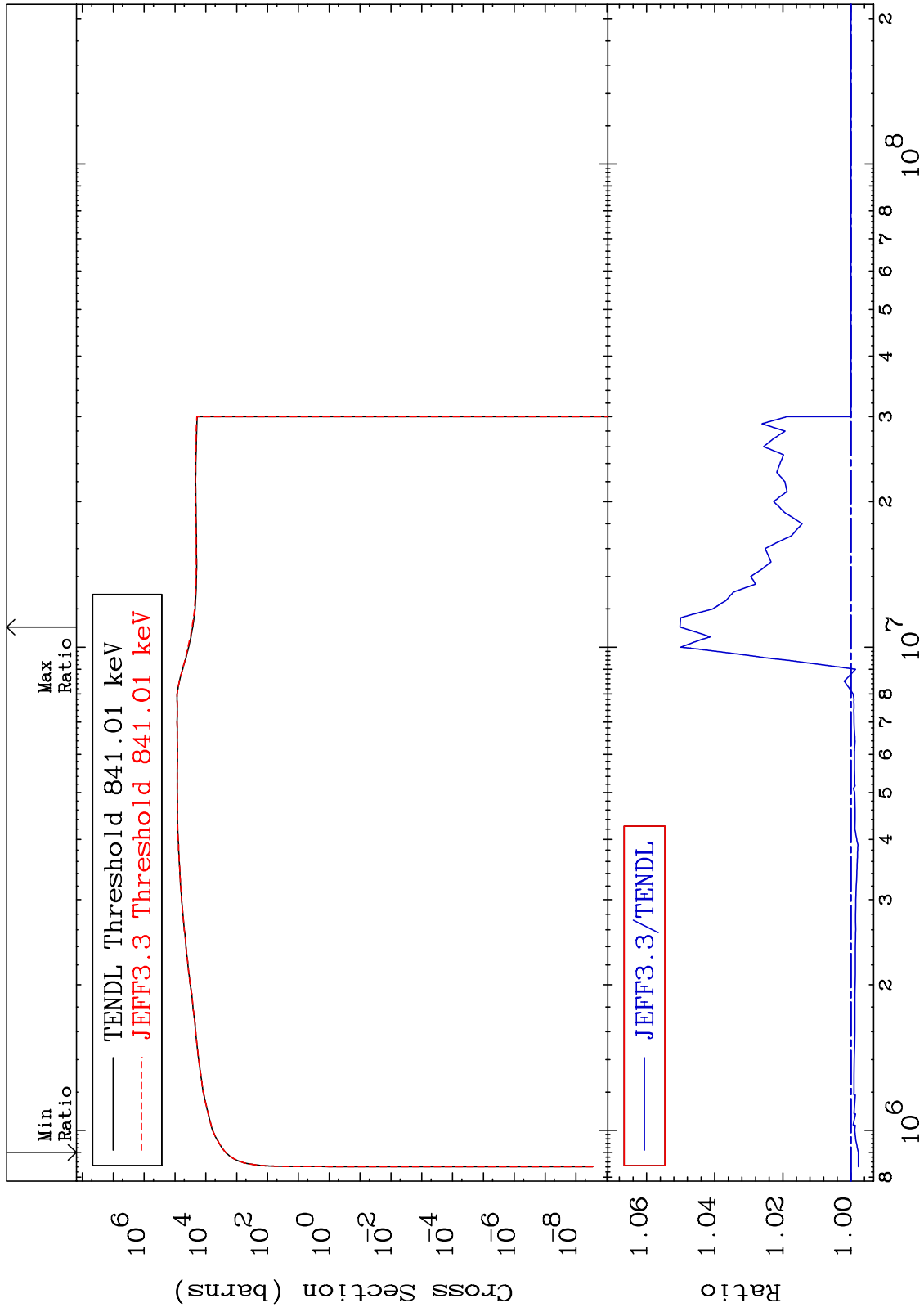
MAT 3843

Dpa inelastic (mt51-91)

38-Sr-90

Cross Section

-0.220 To 5.019 %



77

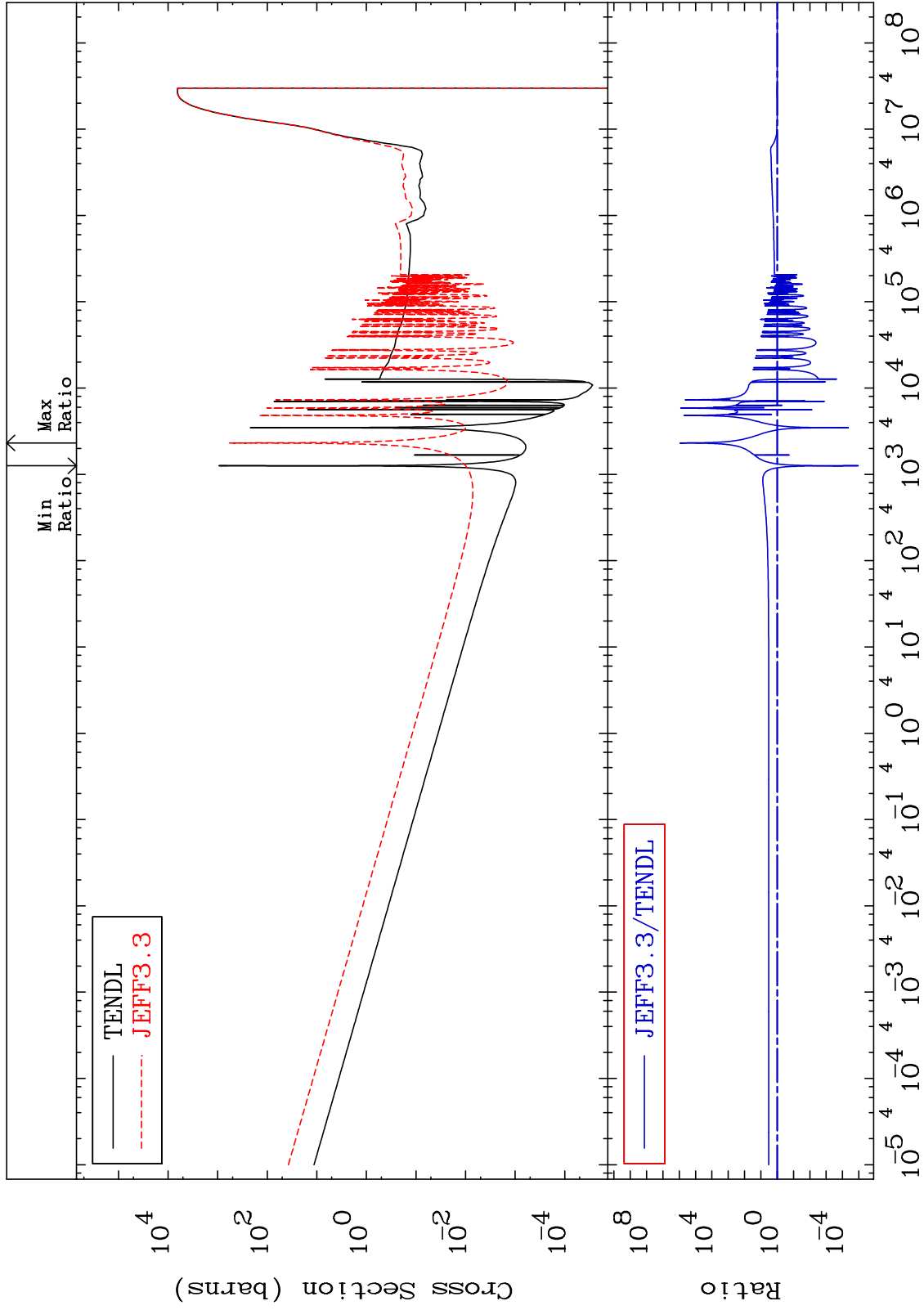
Incident Energy (eV)

38-Sr-90

MAT 3843

Dpa disappearance (mt102 -120)
Cross Section

38-Sr-90
-100.0 To 9999. %



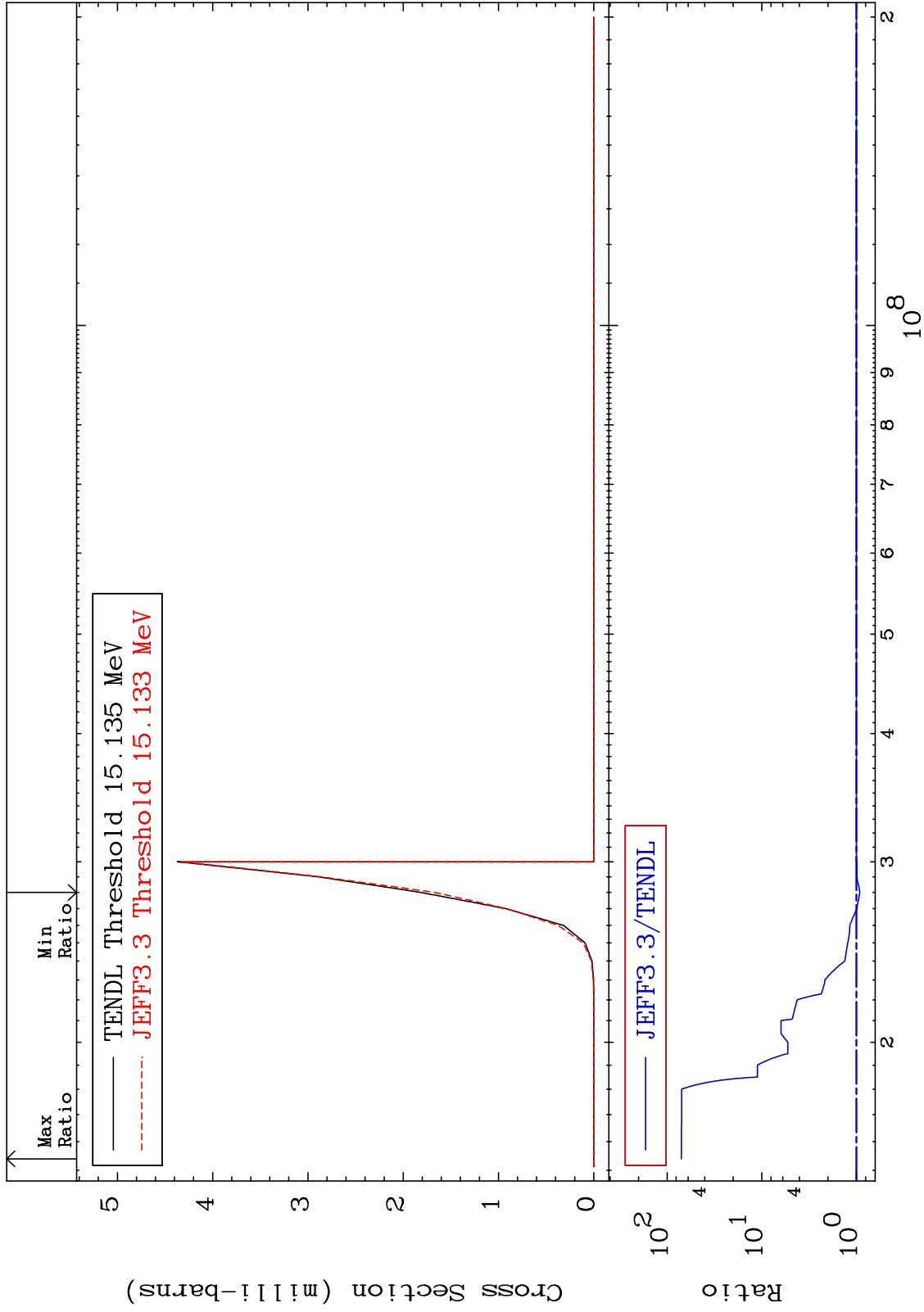
78

Incident Energy (eV)

38-Sr-90

MAT 3843

(n,2n) α :36-Kr-85g 38-Sr-90
Radionuclide Production Cross Section -8.258 To 6986. %

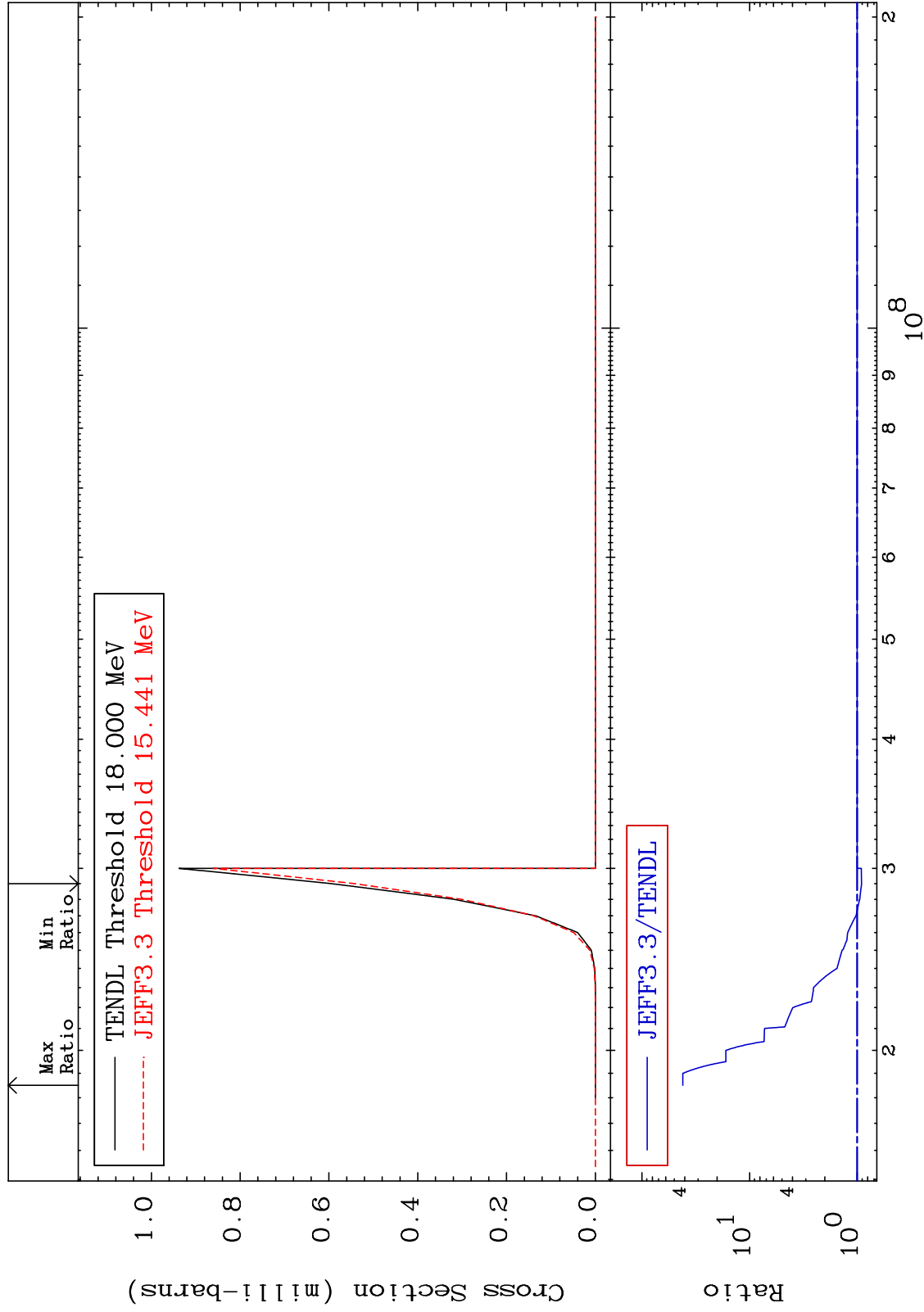


MAT 3843

(n,2n) α :36-Kr-85m1

38-Sr-90

Radionuclide Production Cross Section -8.842 To 4064. %



80

Incident Energy (eV)

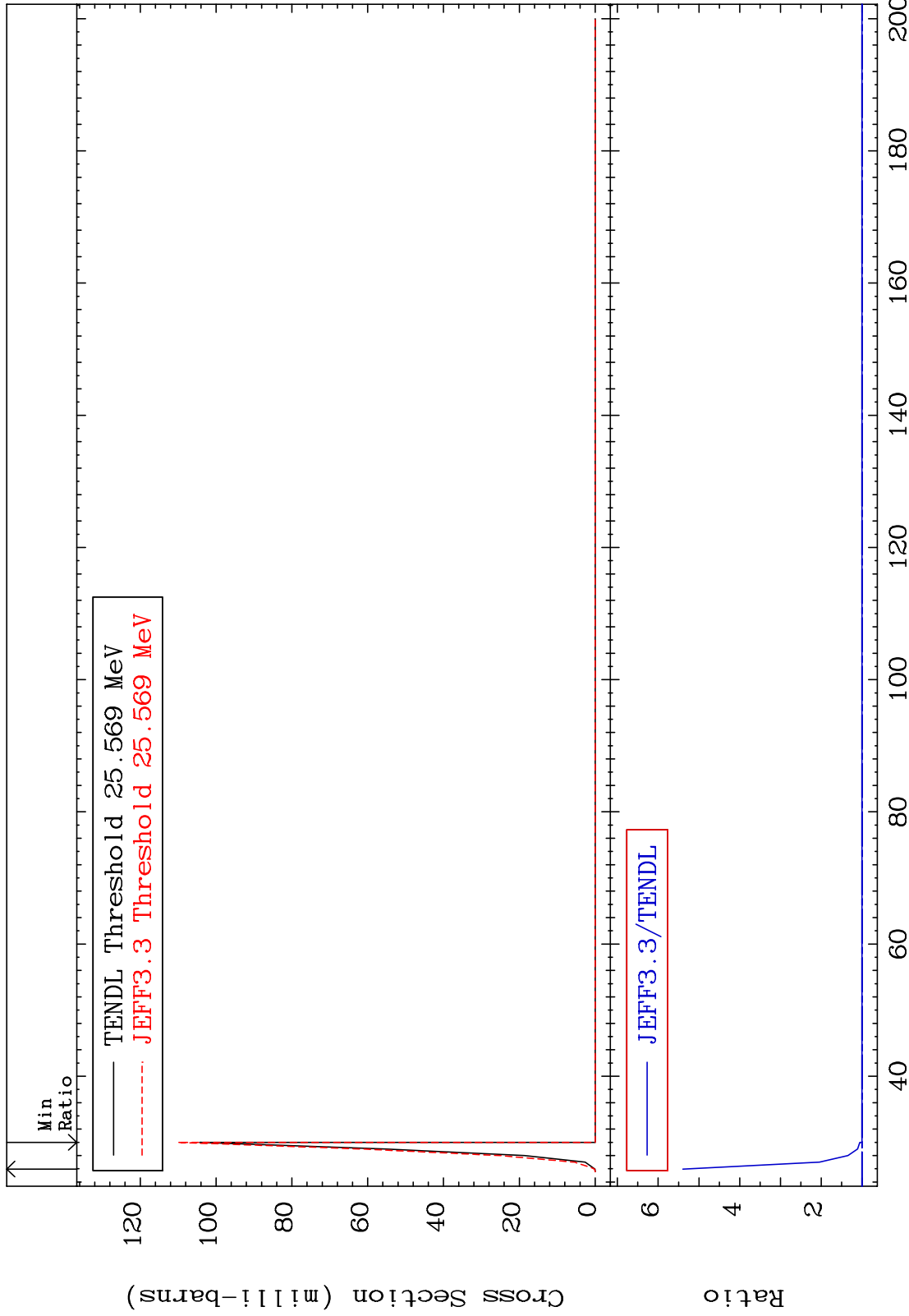
38-Sr-90

MAT 3843

(n,4n):38-Sr-87g

38-Sr-90

Radionuclide Production Cross Section 0.000 To 439.4 %

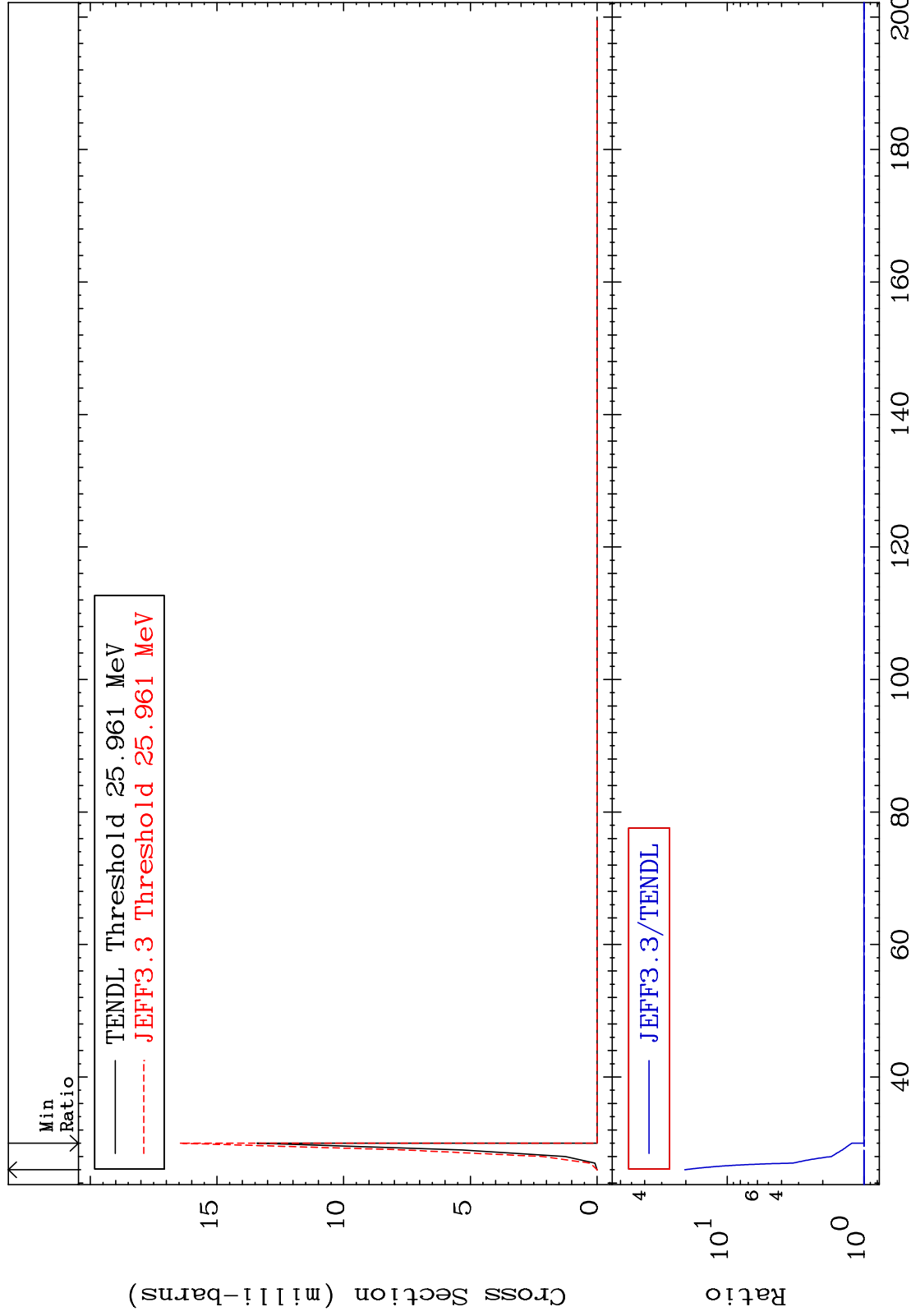


MAT 3843

(n,4n):38-Sr-87m1

38-Sr-90

Radionuclide Production Cross Section 0.000 To 1938. %



82

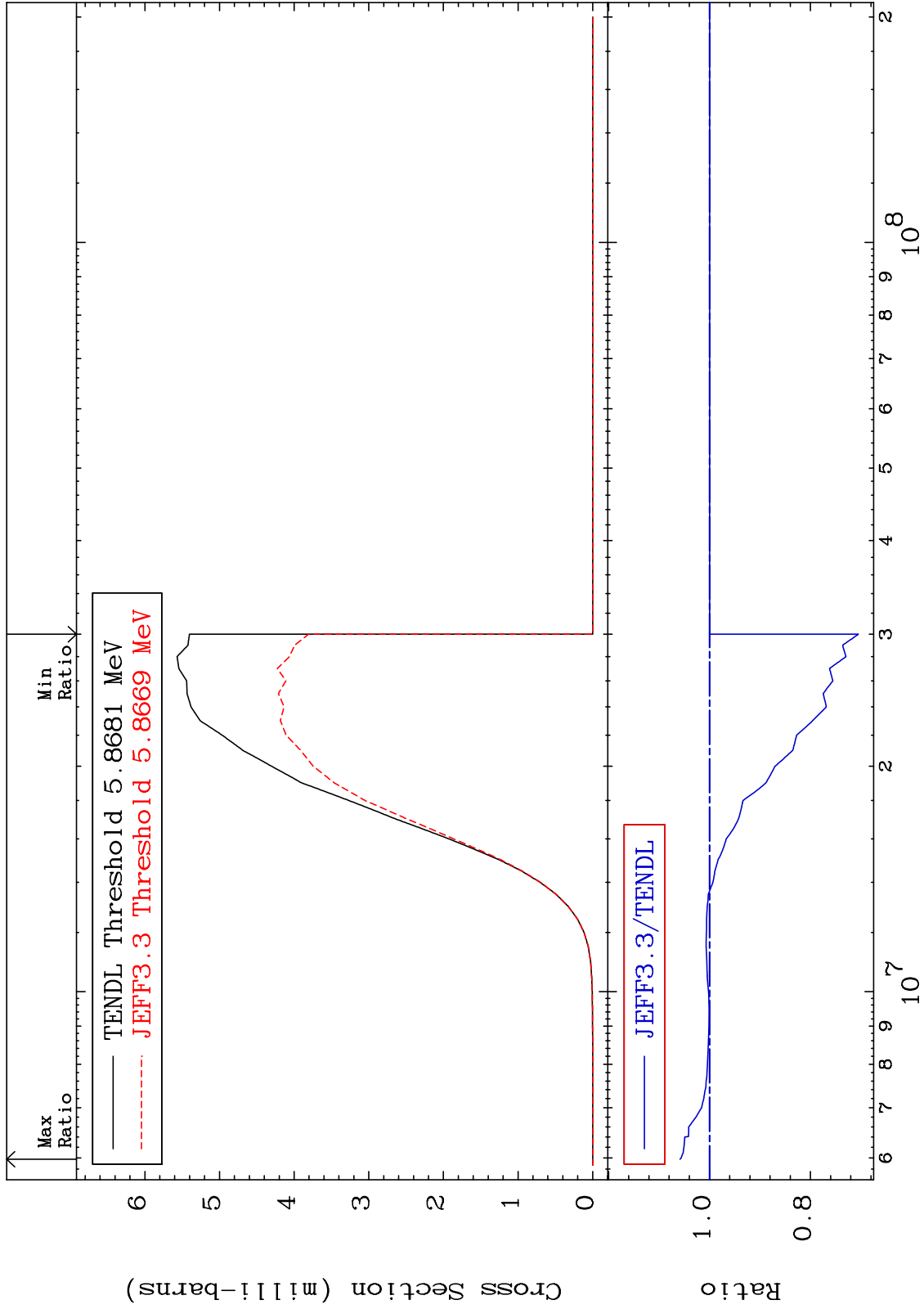
38-Sr-90

MAT 3843

(n, p) : 37-Rb-90g

38-Sr-90

Radionuclide Production Cross Section -29.52 To 5.846 %

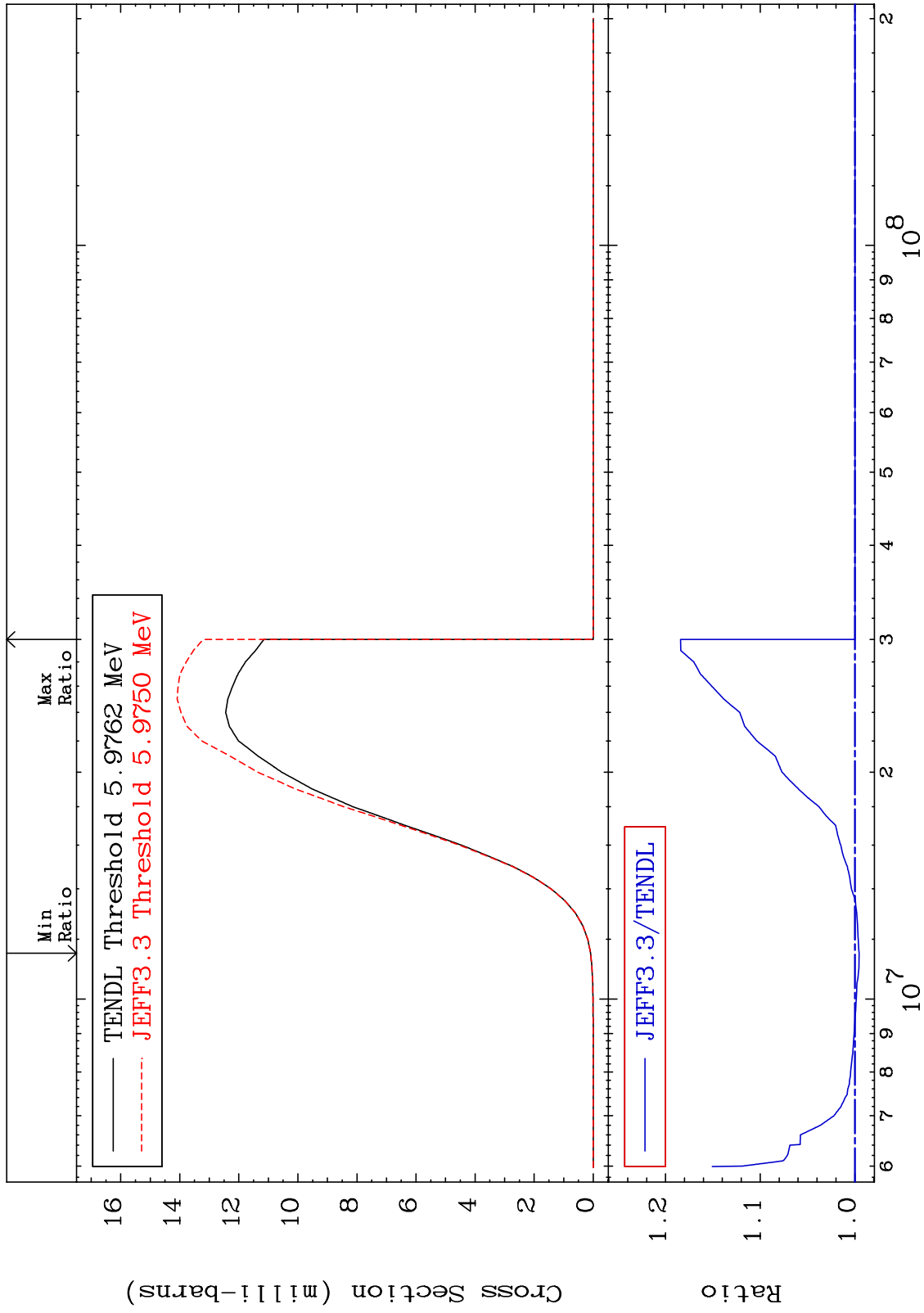


MAT 3843

(n, p): 37-Rb-90m1

38-Sr-90

Radionuclide Production Cross Section -0.455 To 18.41 %

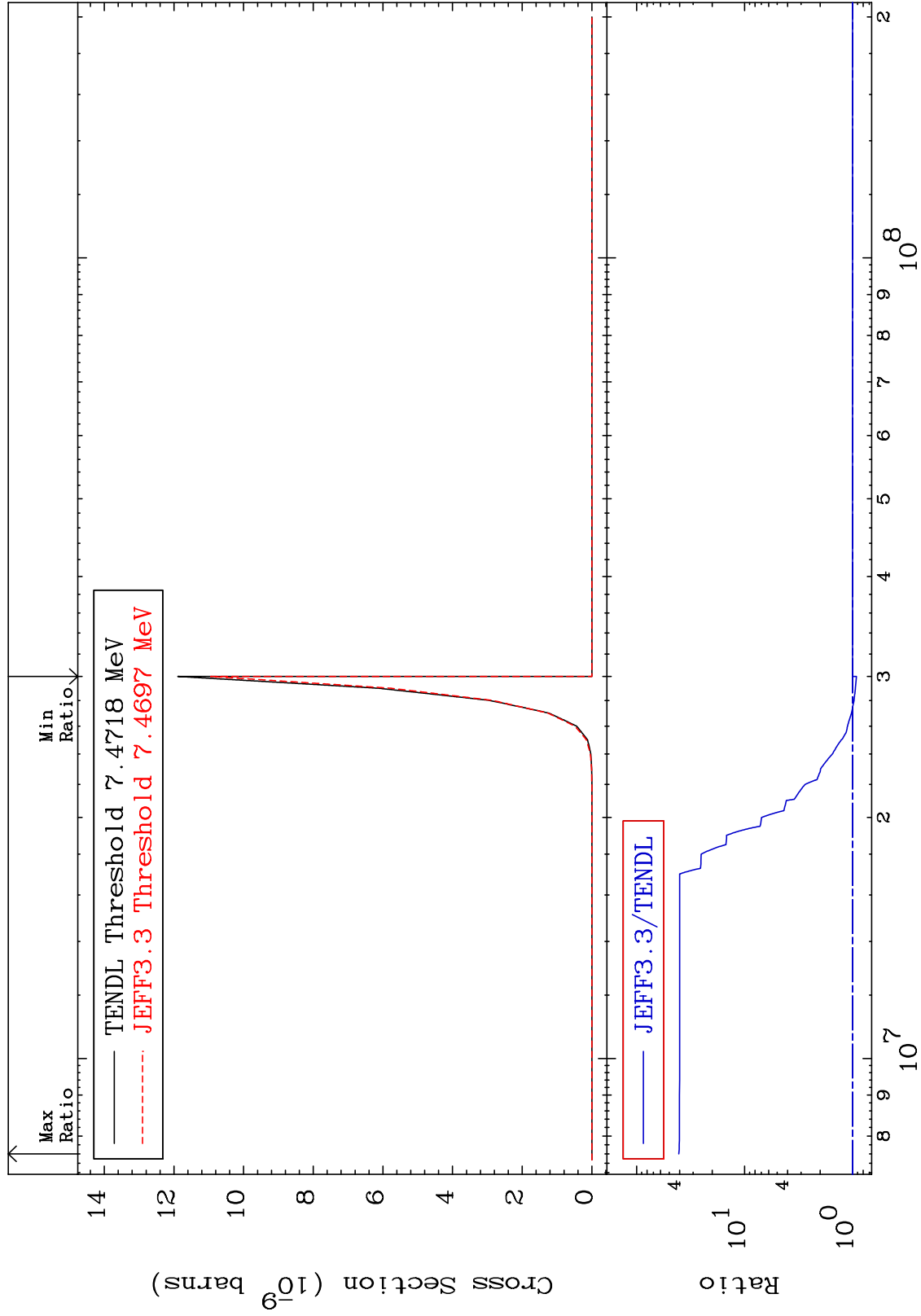


MAT 3843

(n,2α):34-Se-83g

38-Sr-90

Radionuclide Production Cross Section -7.900 To 3969. %



85

Incident Energy (eV)

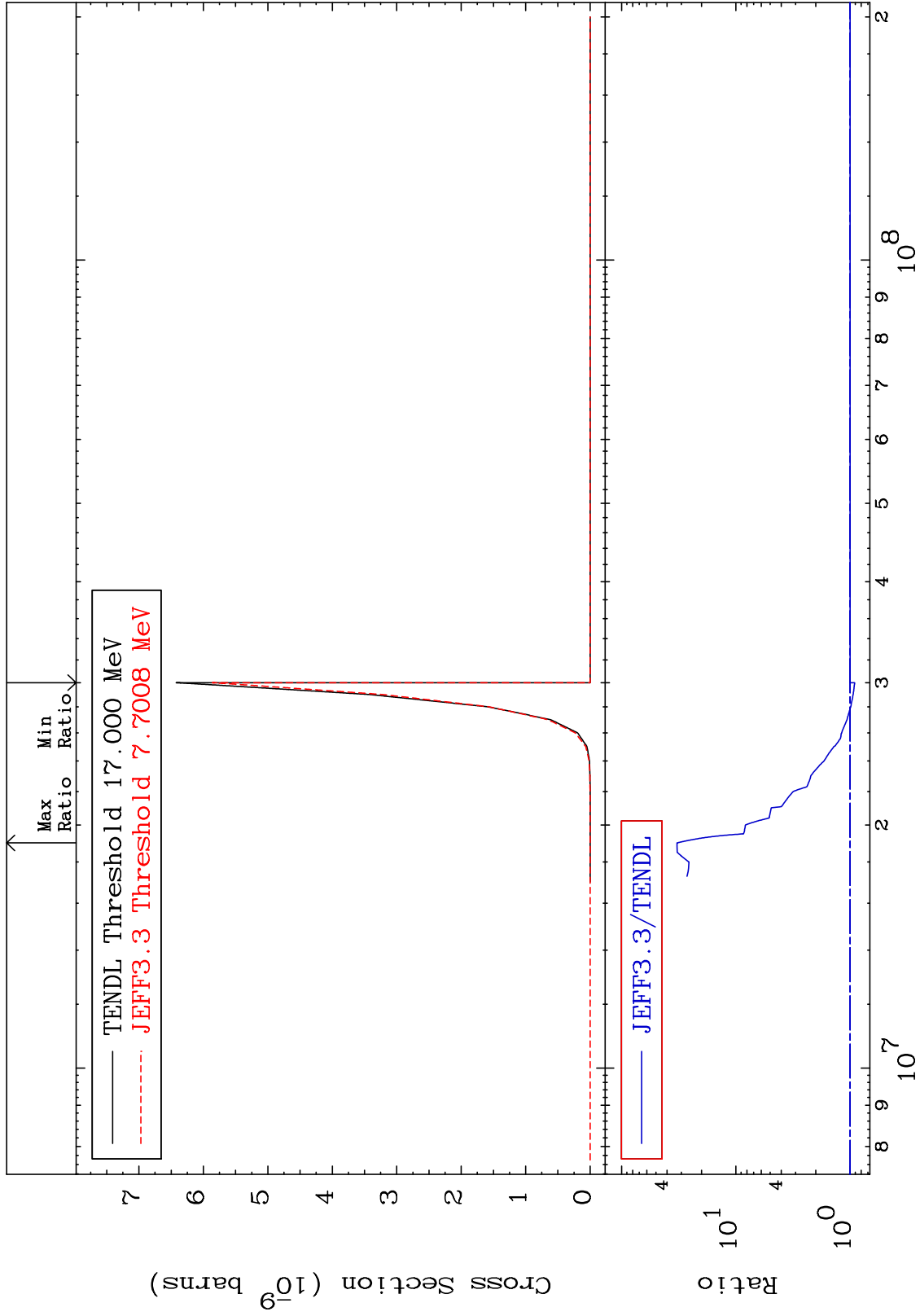
38-Sr-90

MAT 3843

(n,2α):34-Se-83m1

38-Sr-90

Radionuclide Production Cross Section -8.745 To 3168. %



86

Incident Energy (eV)

38-Sr-90