

Program Complot
(Version 2018-1)

by

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U.S.A.

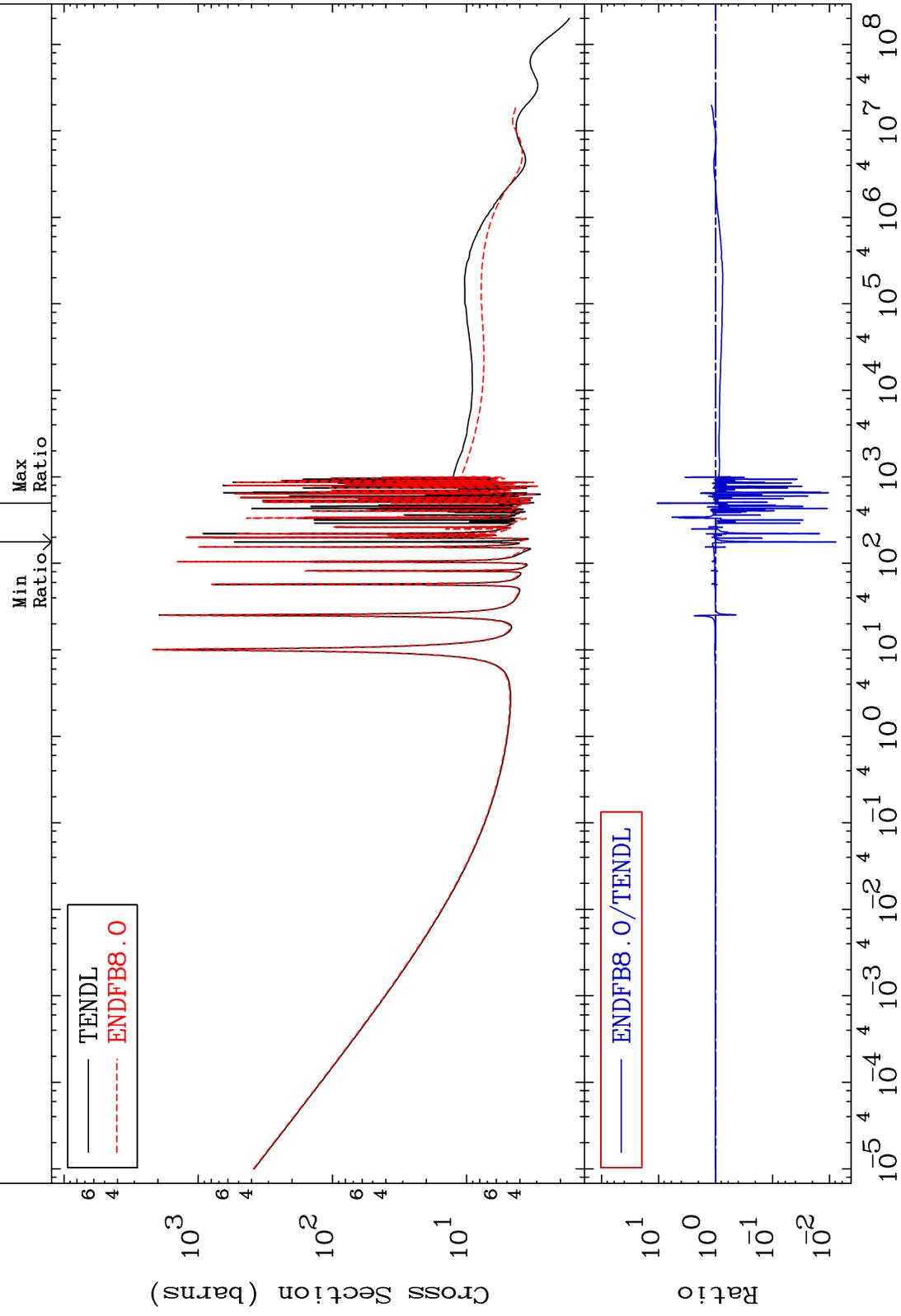
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Press Mouse Button to Start

MAT 4434 44-Ru-99 -99.23 To 969.9 %

Total Cross Section



44-Ru-99

Incident Energy (eV)

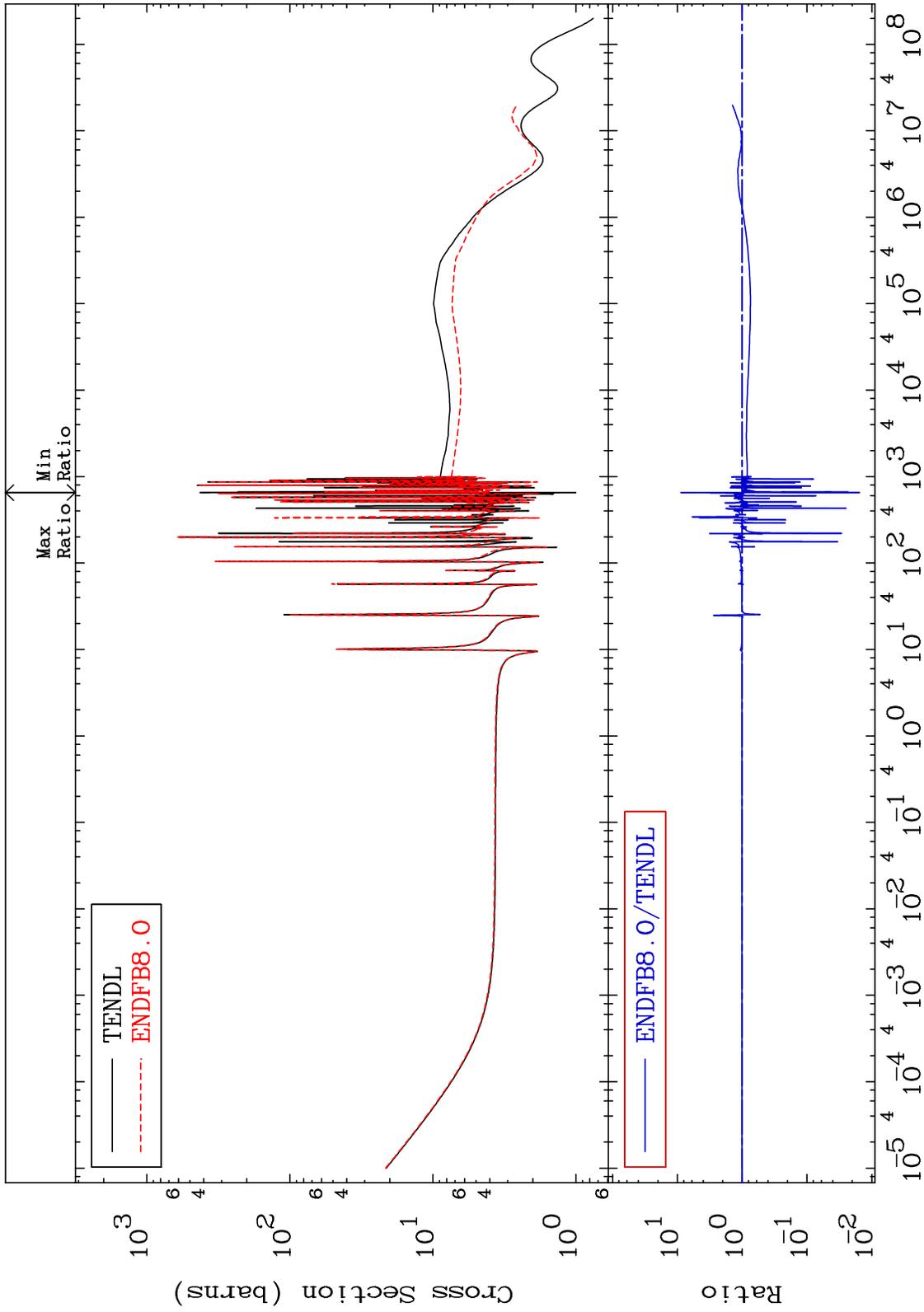
MAT 4434

Elastic

44-Ru-99

Cross Section

-98.46 To 786.7 %



MAT 4434

Inelastic
Cross Section

44-Ru-99
-51.81 To 1.157 %

Min
Ratio

Max
Ratio

— TENDL Threshold 90.484 keV
- - - ENDFB8.0 Threshold 90.312 keV

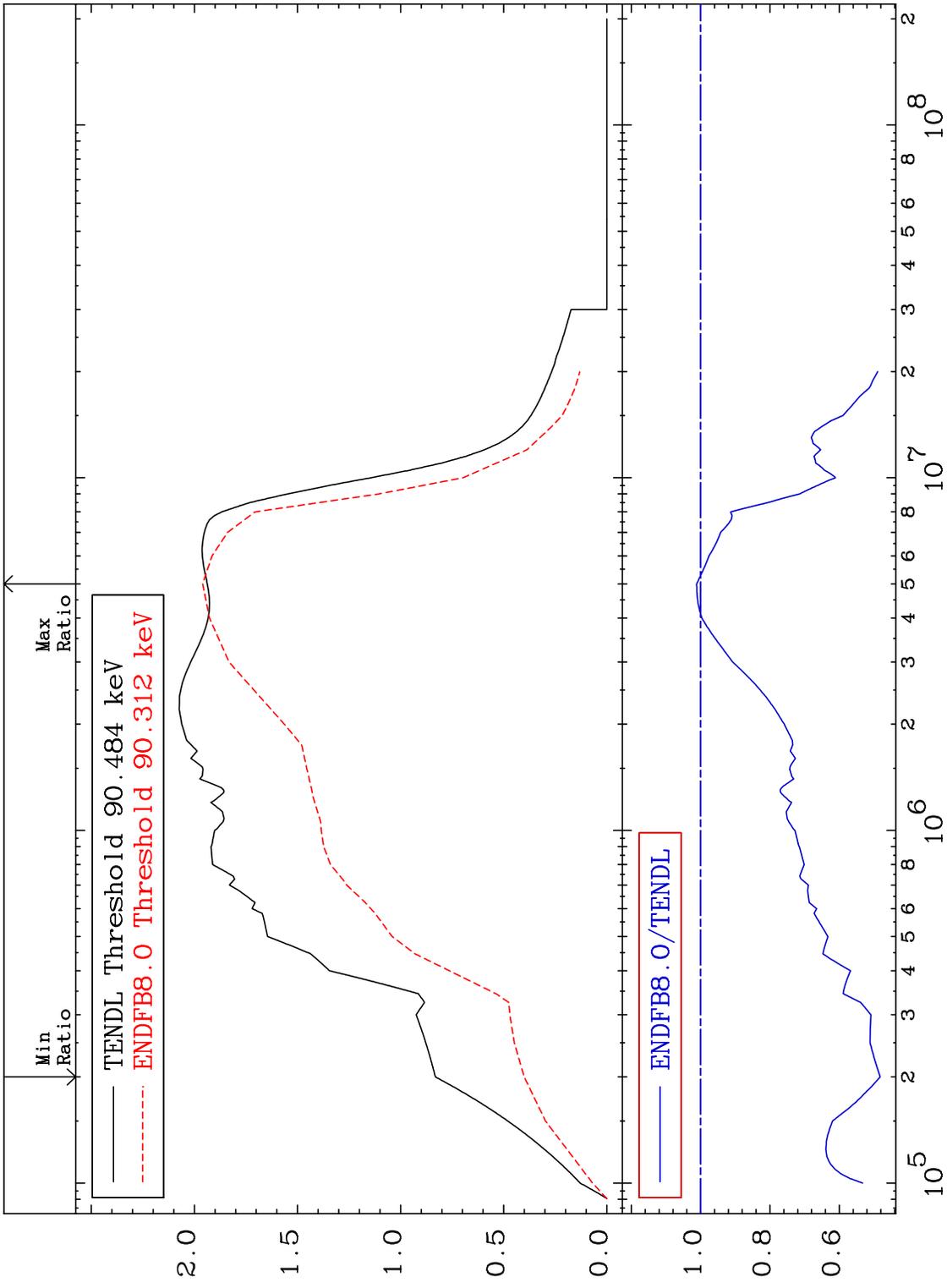
— ENDFB8.0/TENDL

Cross Section (barns)

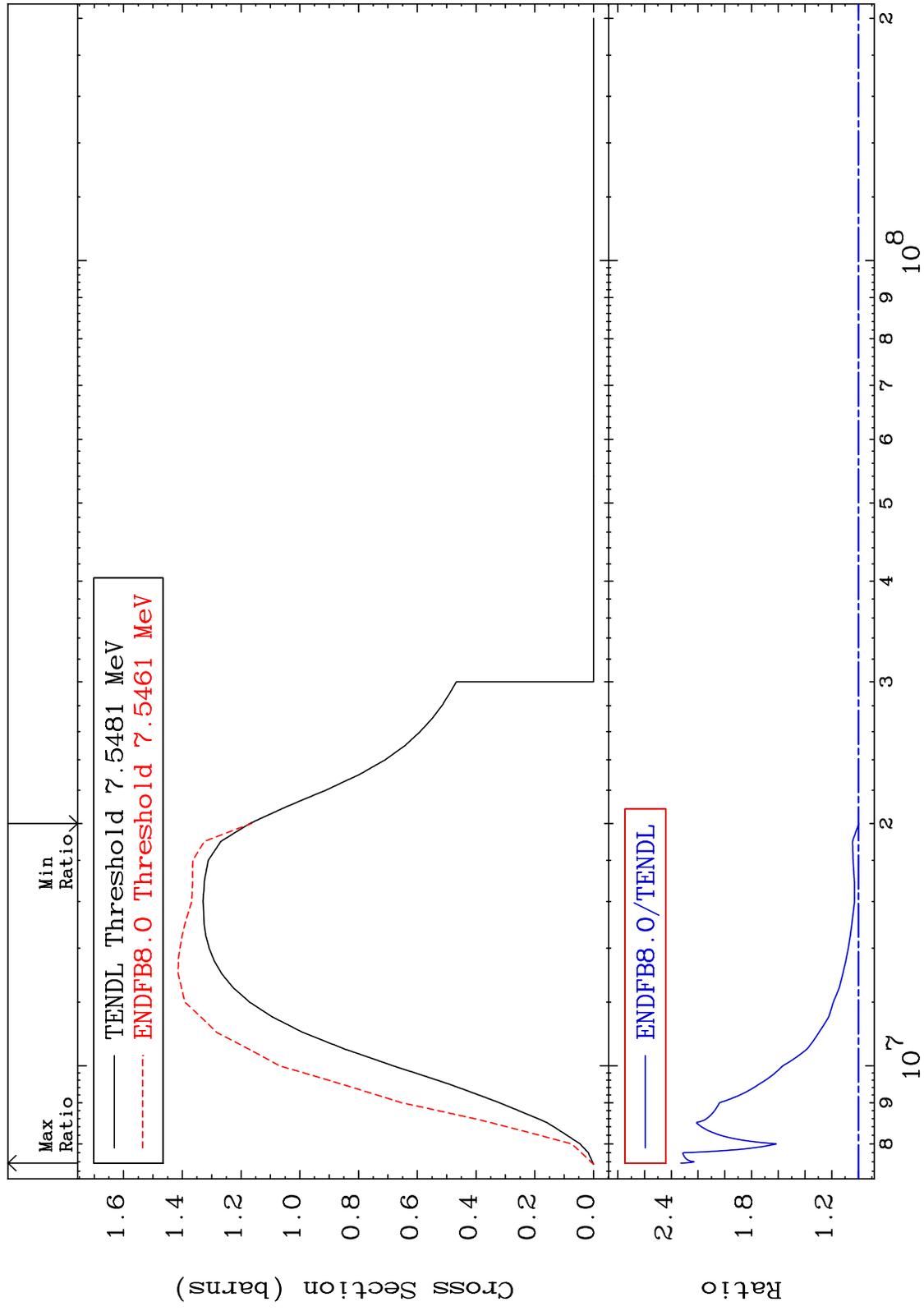
Ratio

Incident Energy (eV)

44-Ru-99

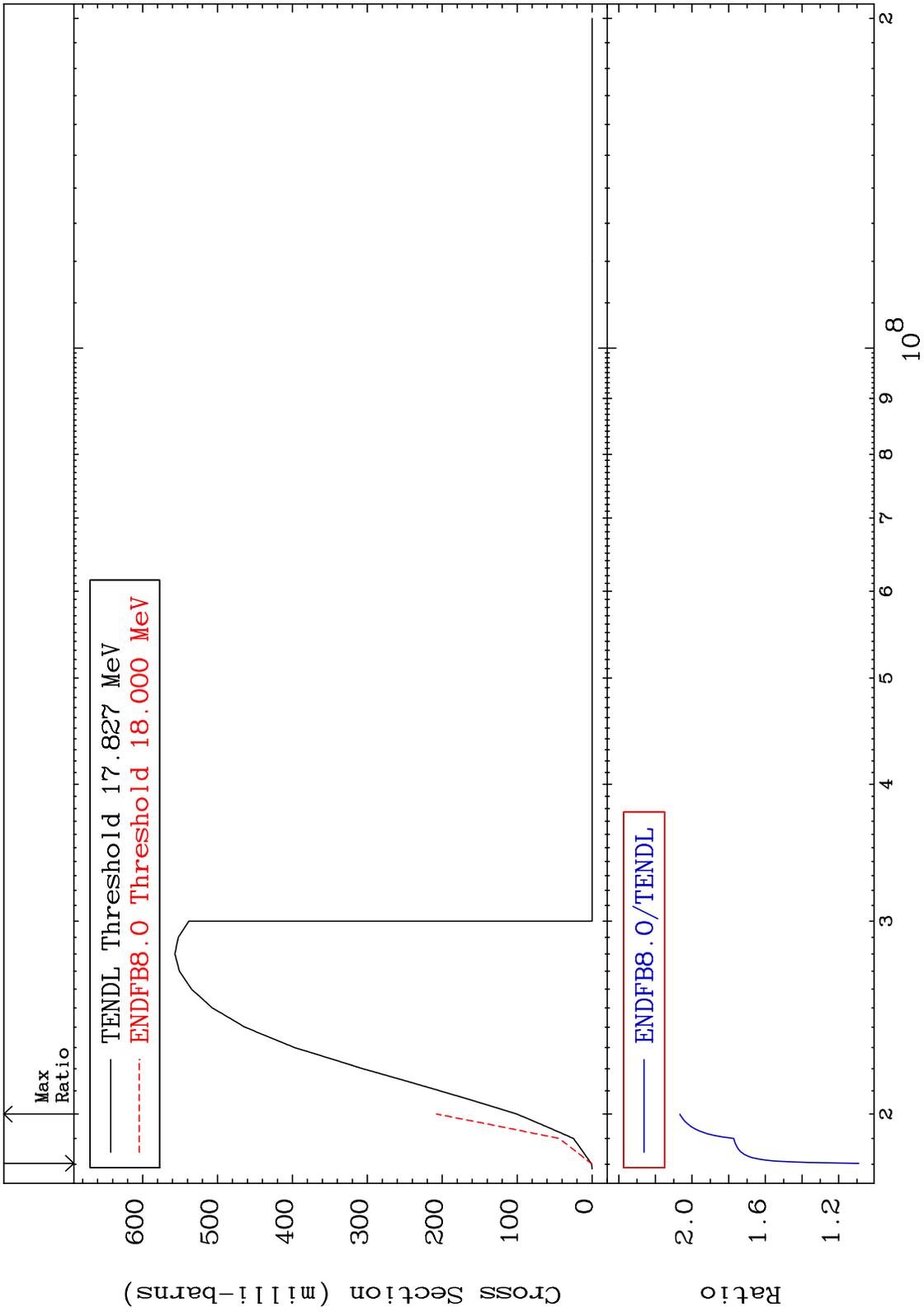


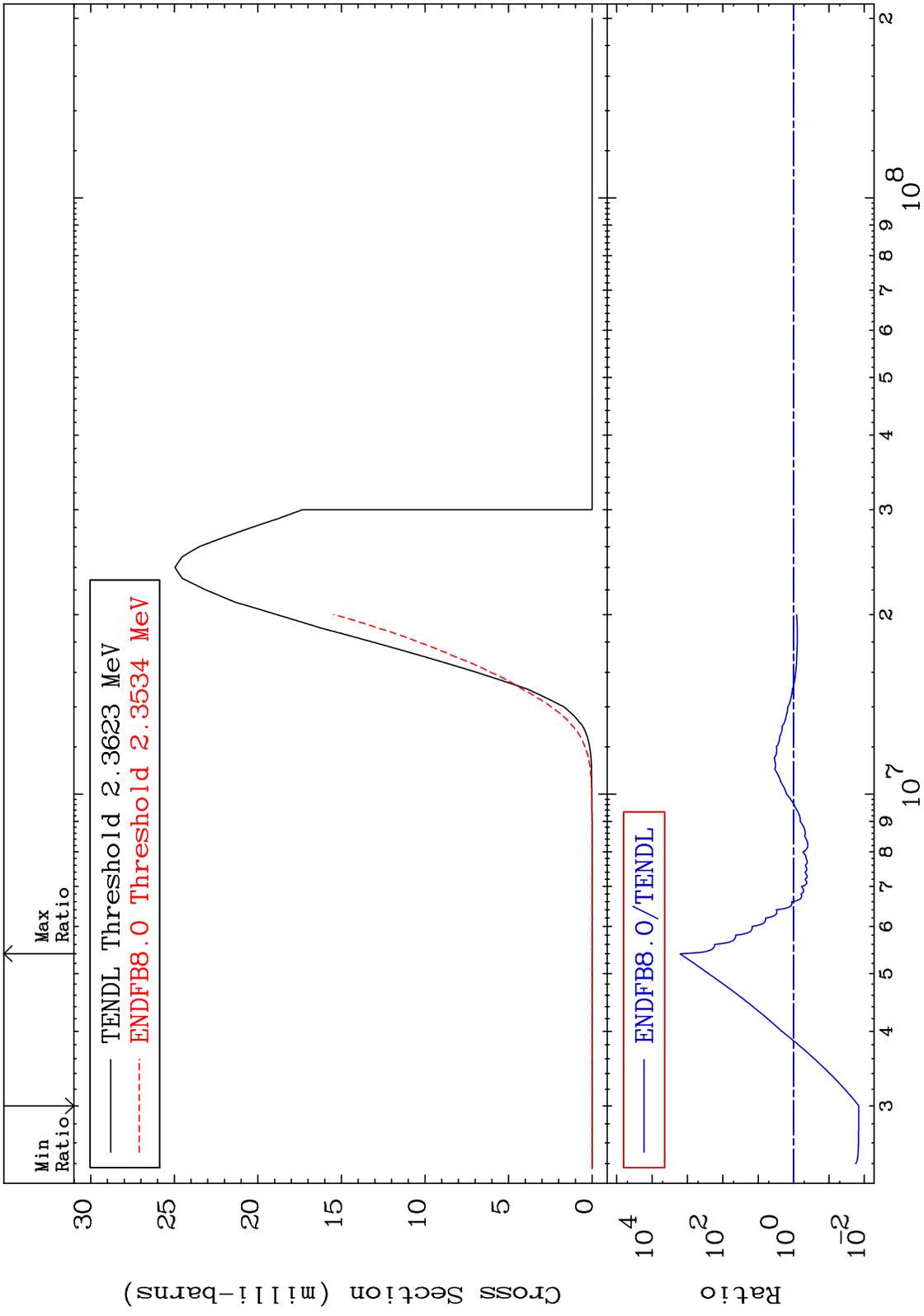
MAT 4434 (n,2n) Cross Section 44-Ru-99 -0.494 To 132.9 %



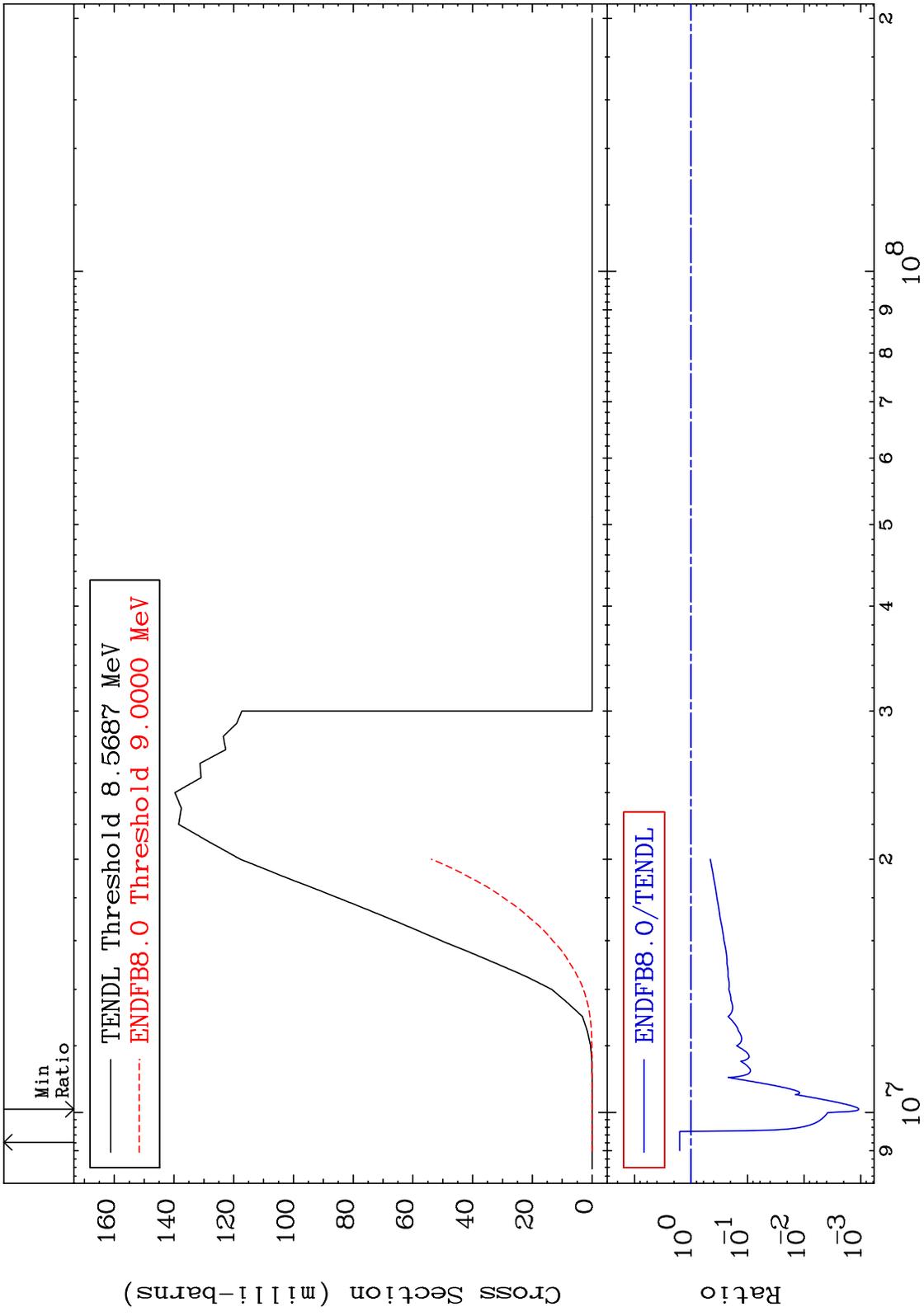
44-Ru-99

MAT 4434 (n,3n) Cross Section 44-Ru-99 8.984 To 106.7 %

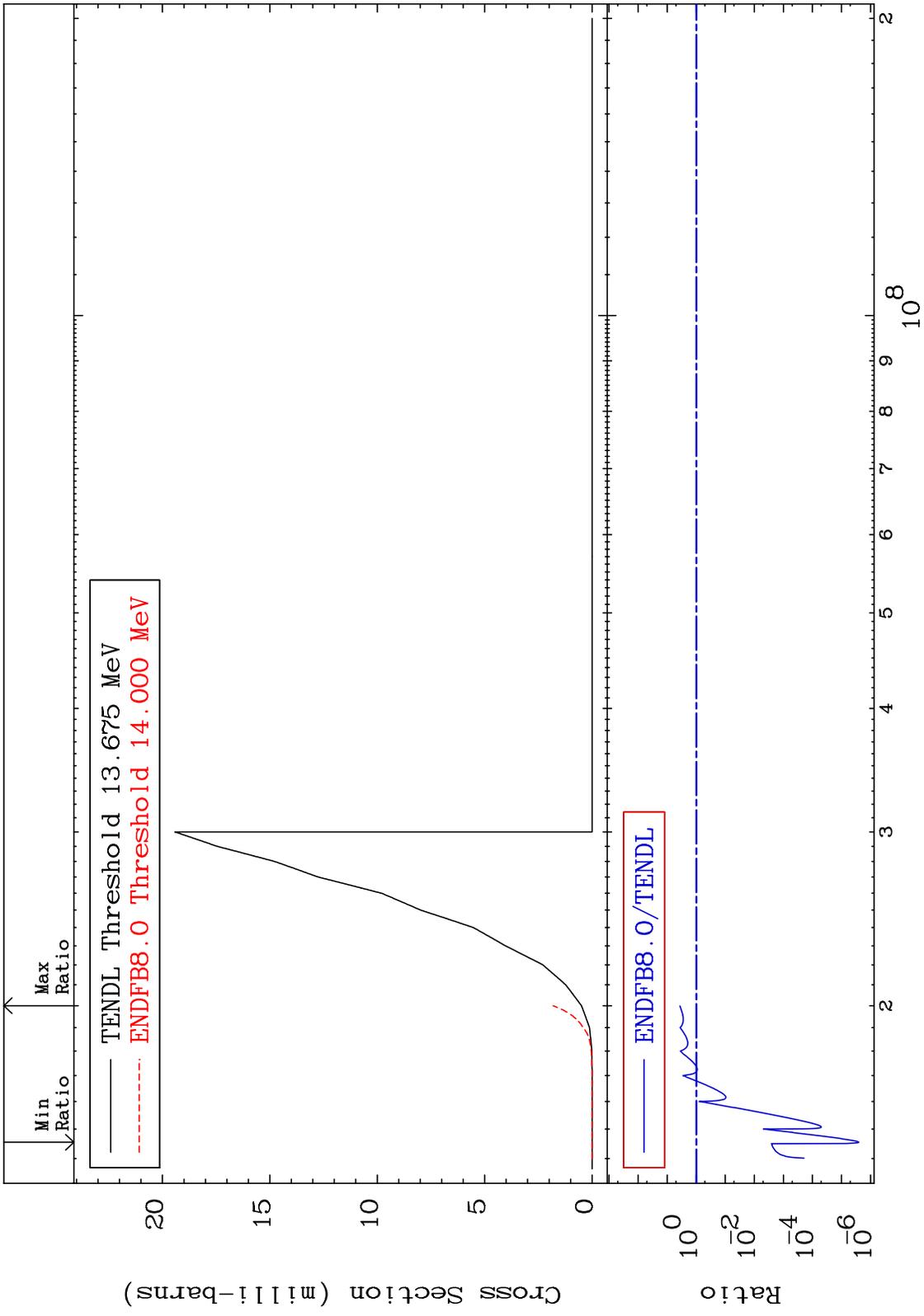




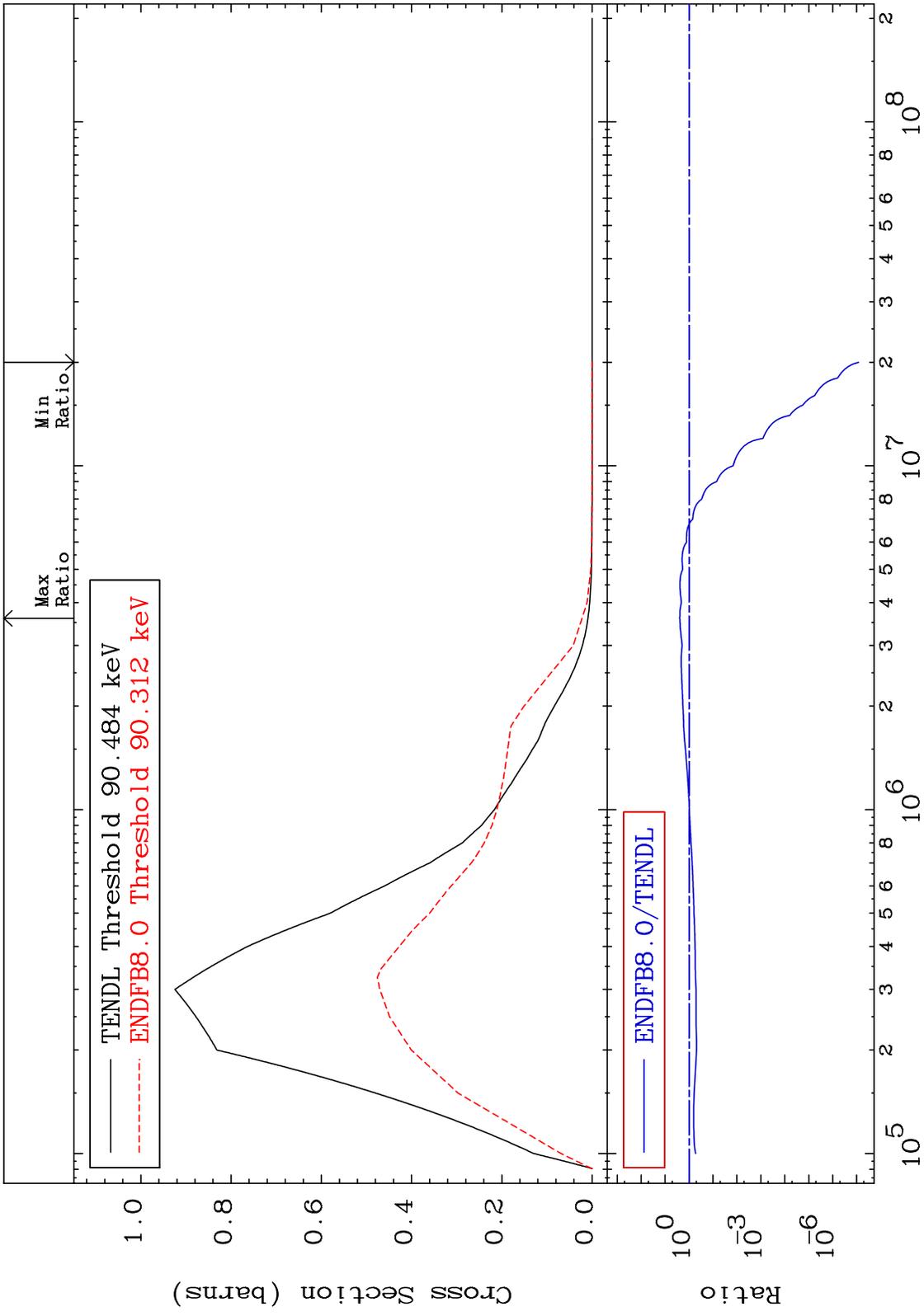
MAT 4434 (n,n') p 44-Ru-99
 Cross Section -99.89 To 58.35 %



7 Incident Energy (eV) 44-Ru-99



MAT 4434 MT= 51 (n,n') Level Cross Section -100.0 To 144.5 % 44-Ru-99

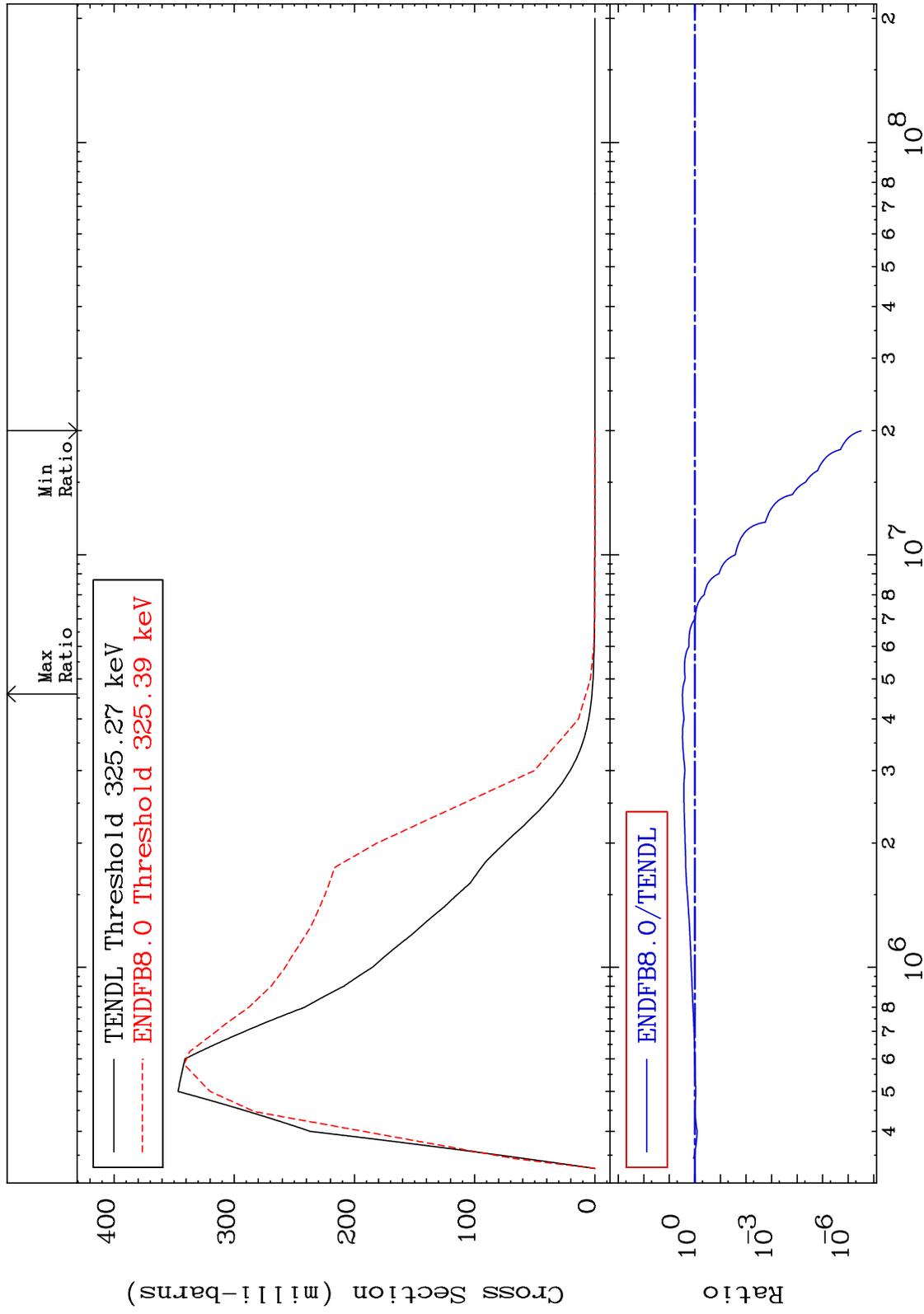


9 Incident Energy (eV) 44-Ru-99

MAT 4434

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

44-Ru-99
-100.0 To 207.2 %

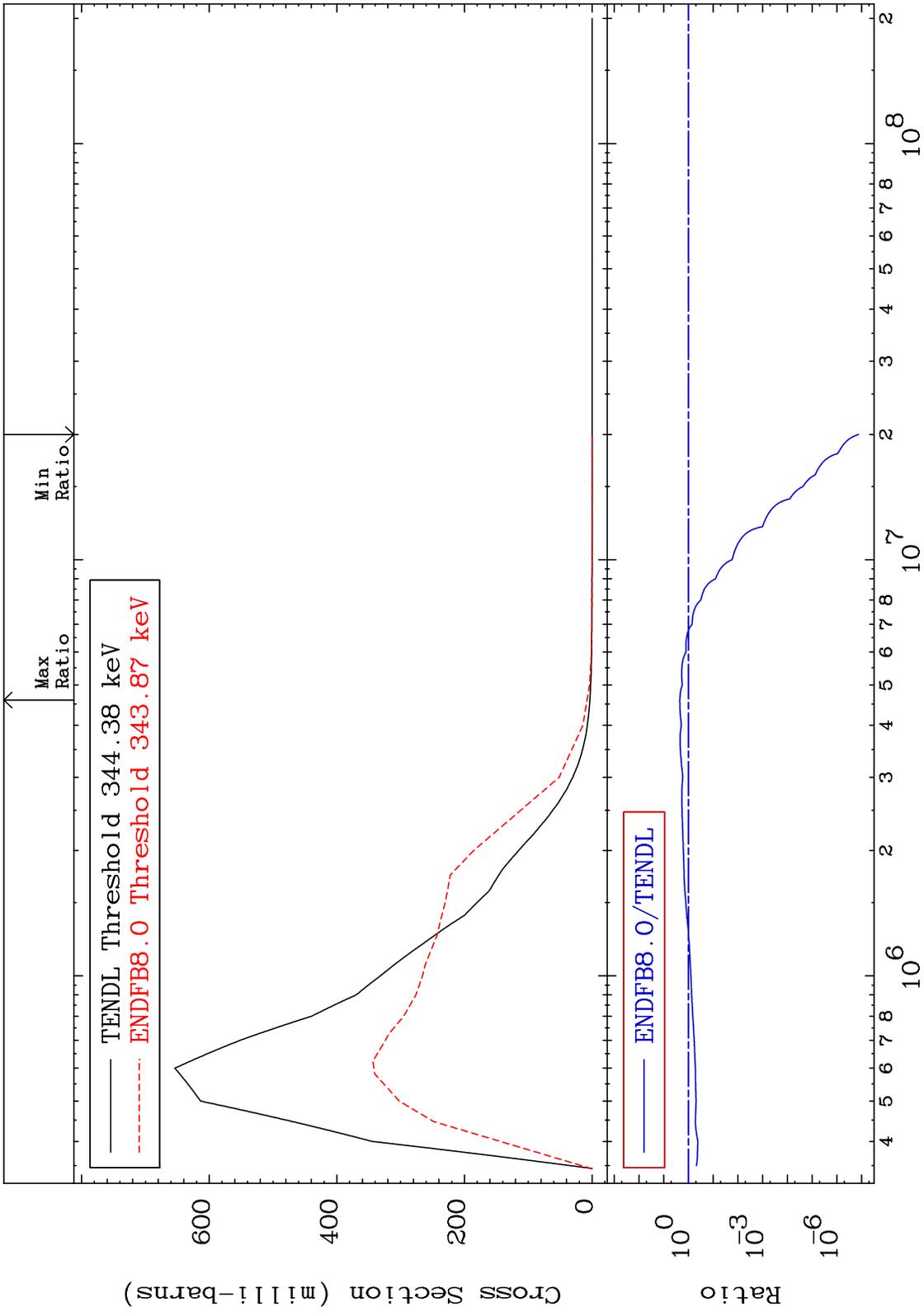


10

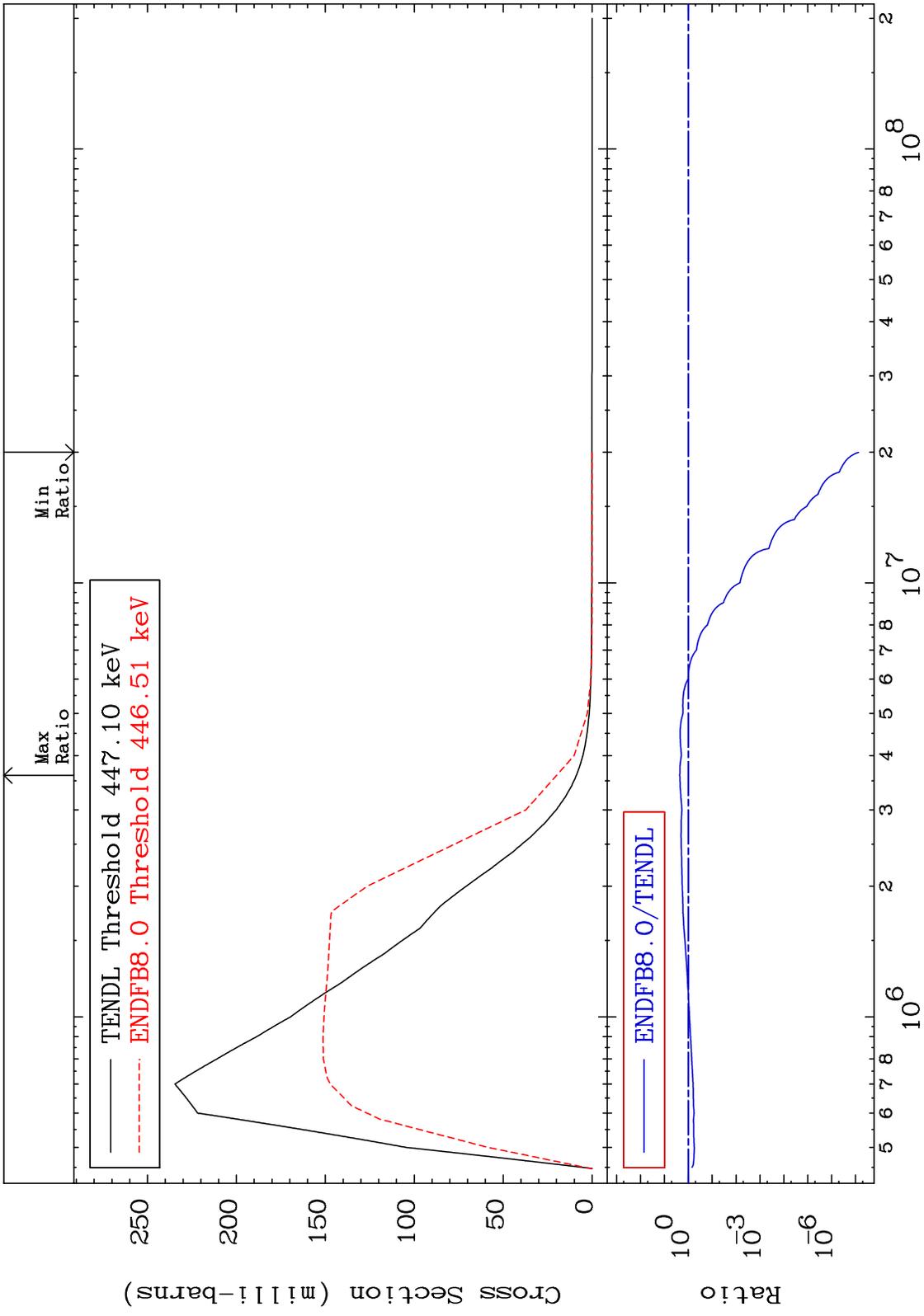
Incident Energy (eV)

44-Ru-99

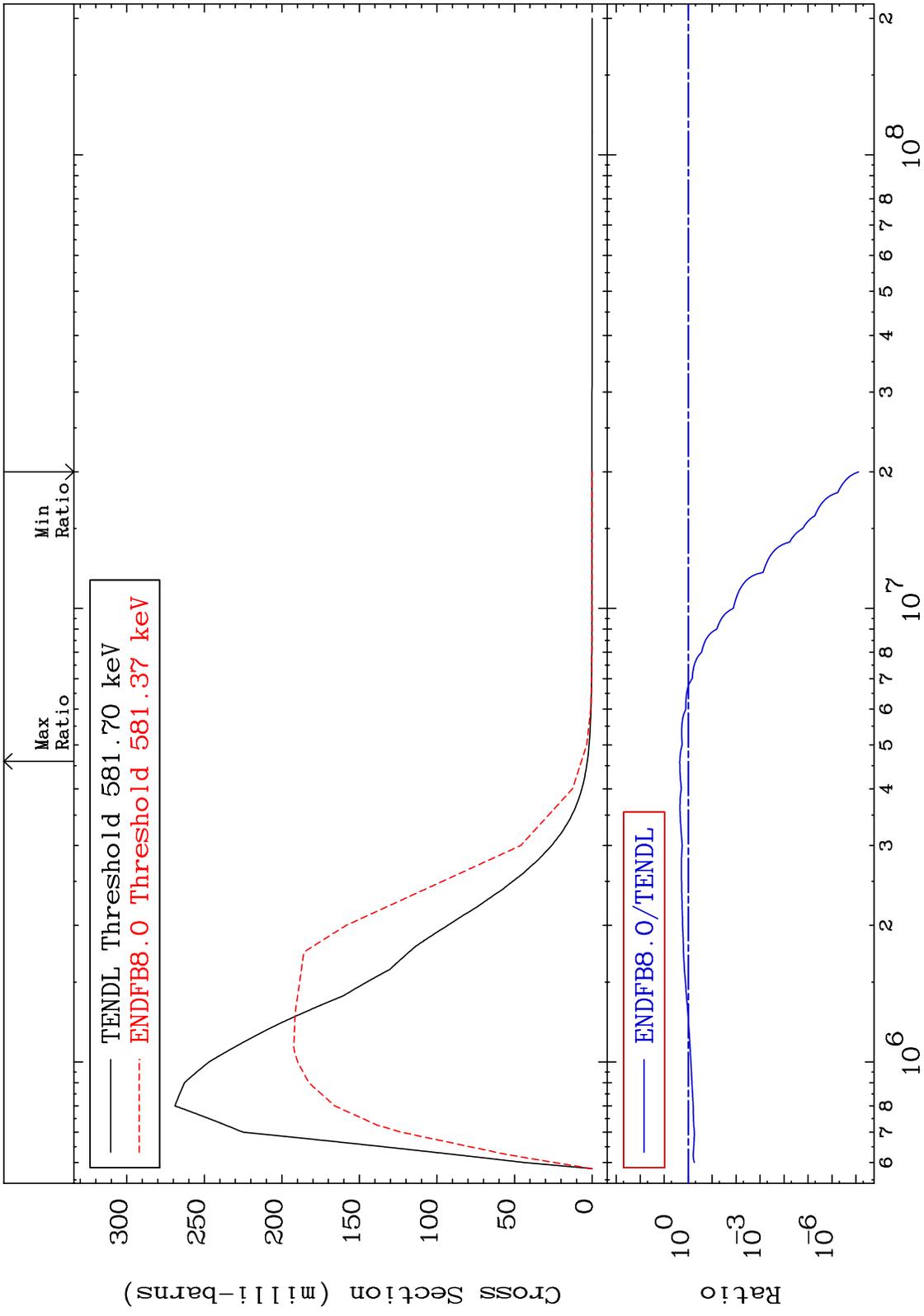
MAT 4434 MT= 53 (n,n') Level Cross Section -100.0 To 125.2 % 44-Ru-99



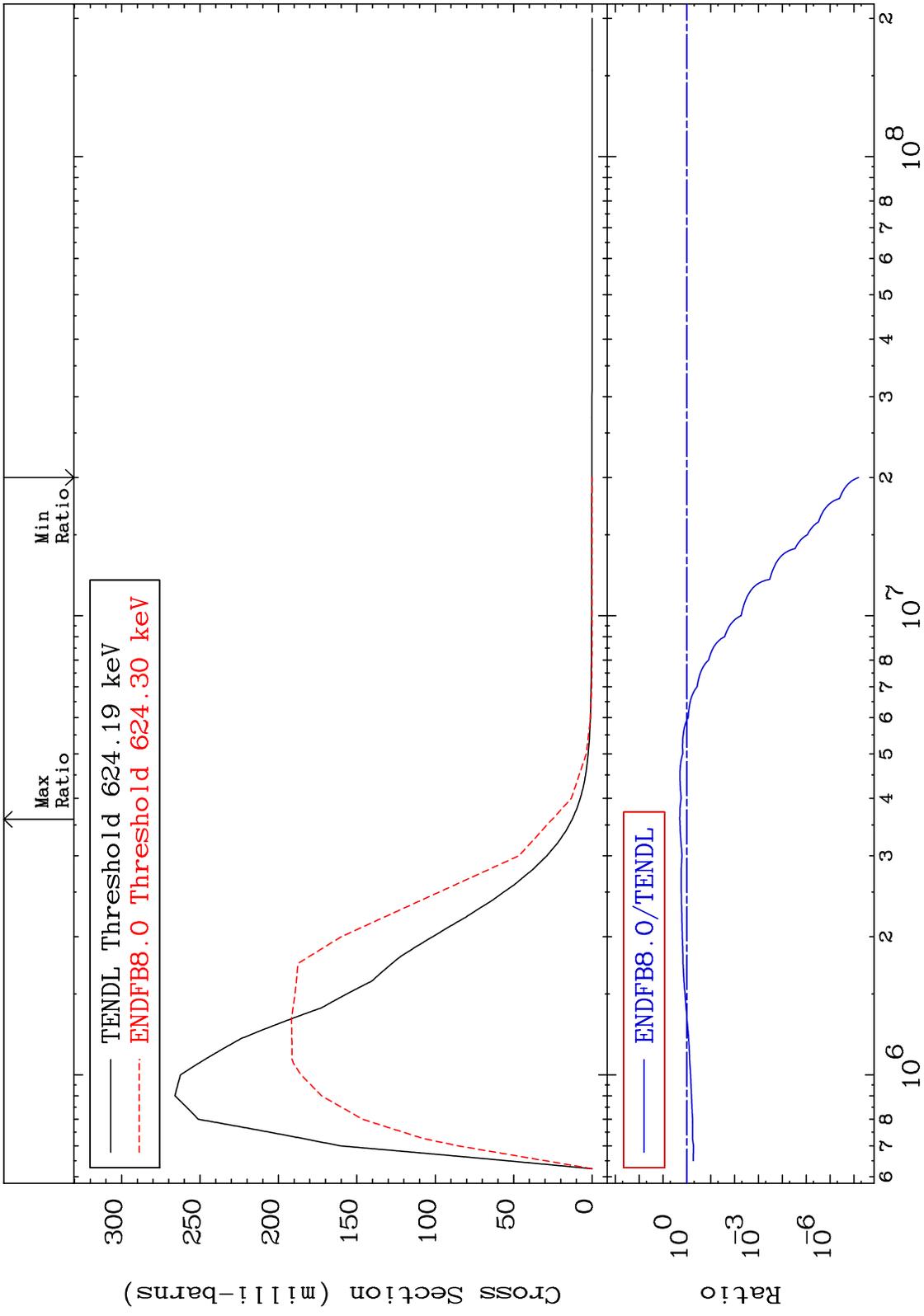
MAT 4434 MT= 54 (n,n') Level Cross Section -100.0 To 126.6 % 44-Ru-99



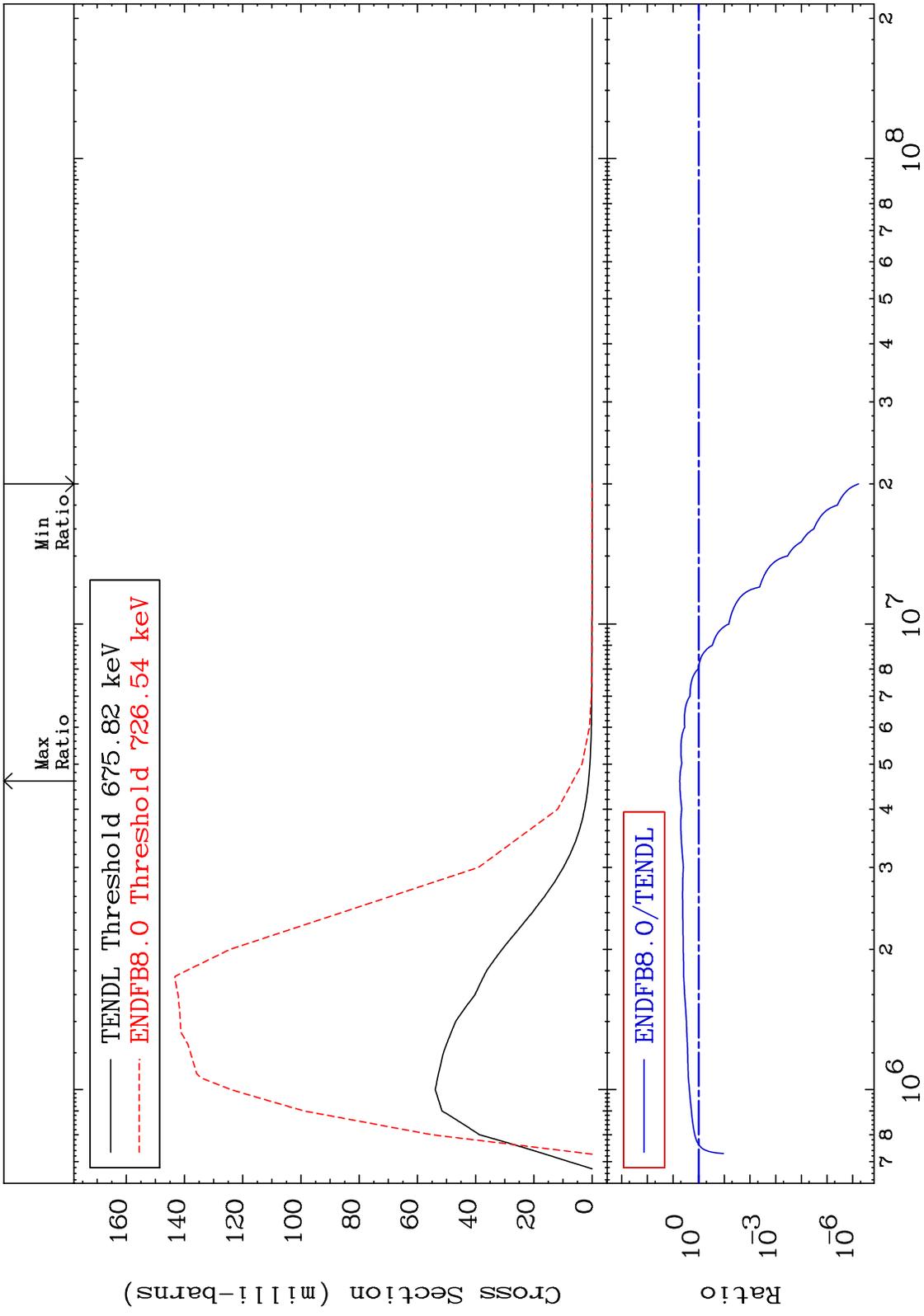
MAT 4434 MT= 55 (n,n') Level Cross Section -100.0 To 123.9 % 44-Ru-99



MAT 4434 MT= 56 (n,n') Level Cross Section 44-Ru-99
 -100.0 To 101.1 %



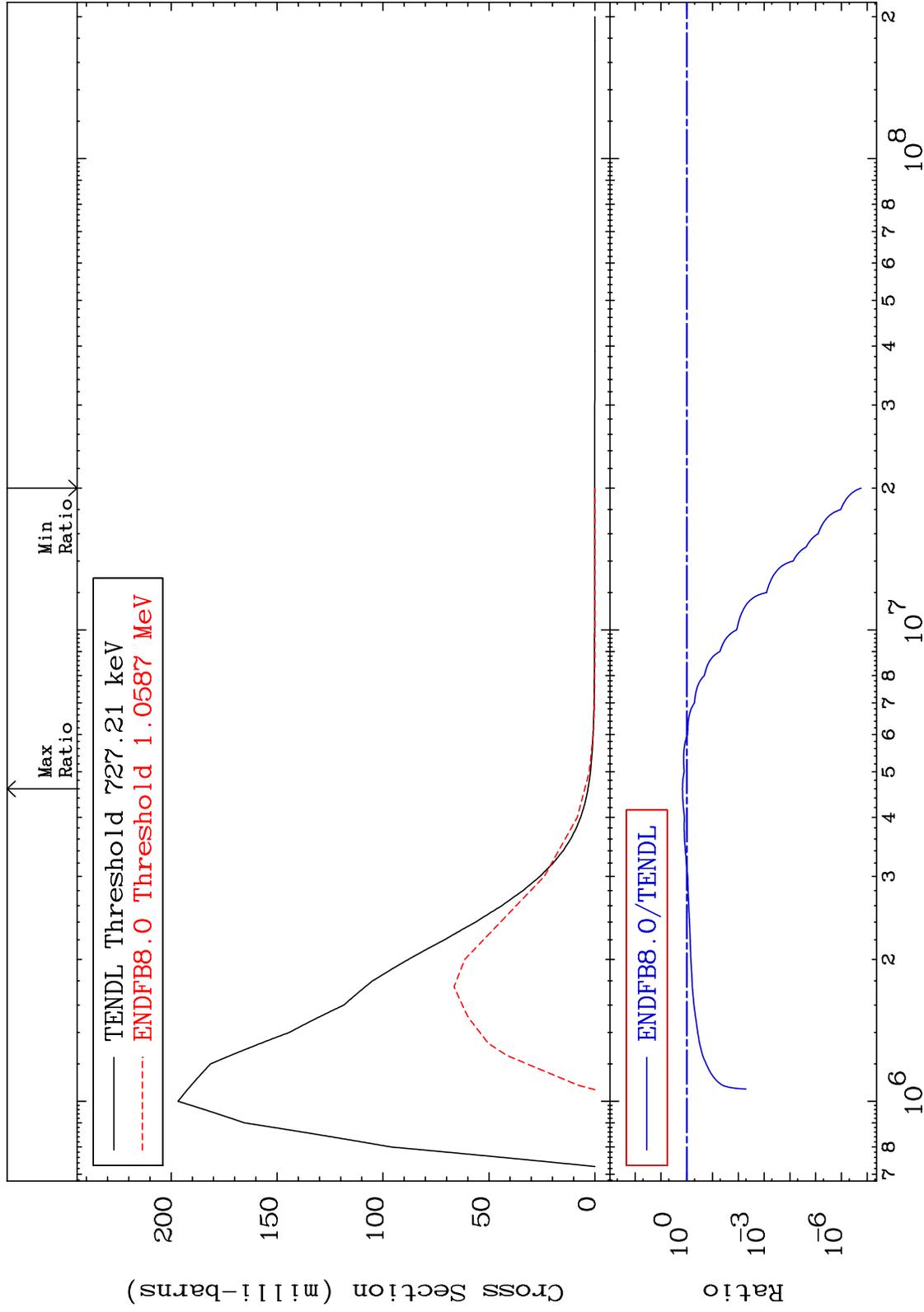
MAT 4434 MT= 57 (n,n') Level Cross Section 44-Ru-99
 -100.0 To 447.6 %



MAT 4434

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

44-Ru-99
-100.0 To 47.33 %



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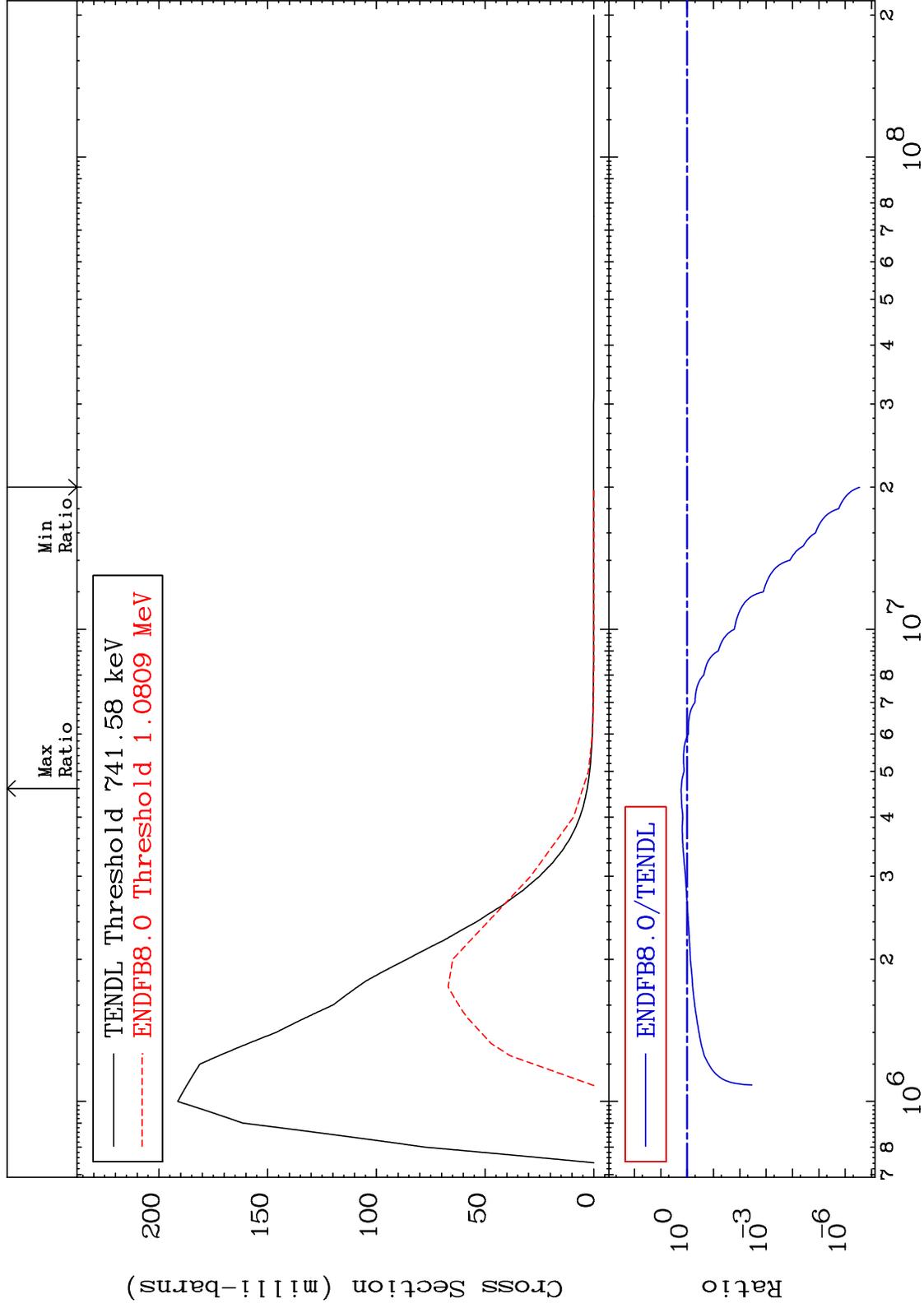
Incident Energy (eV)

44-Ru-99

MAT 4434

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

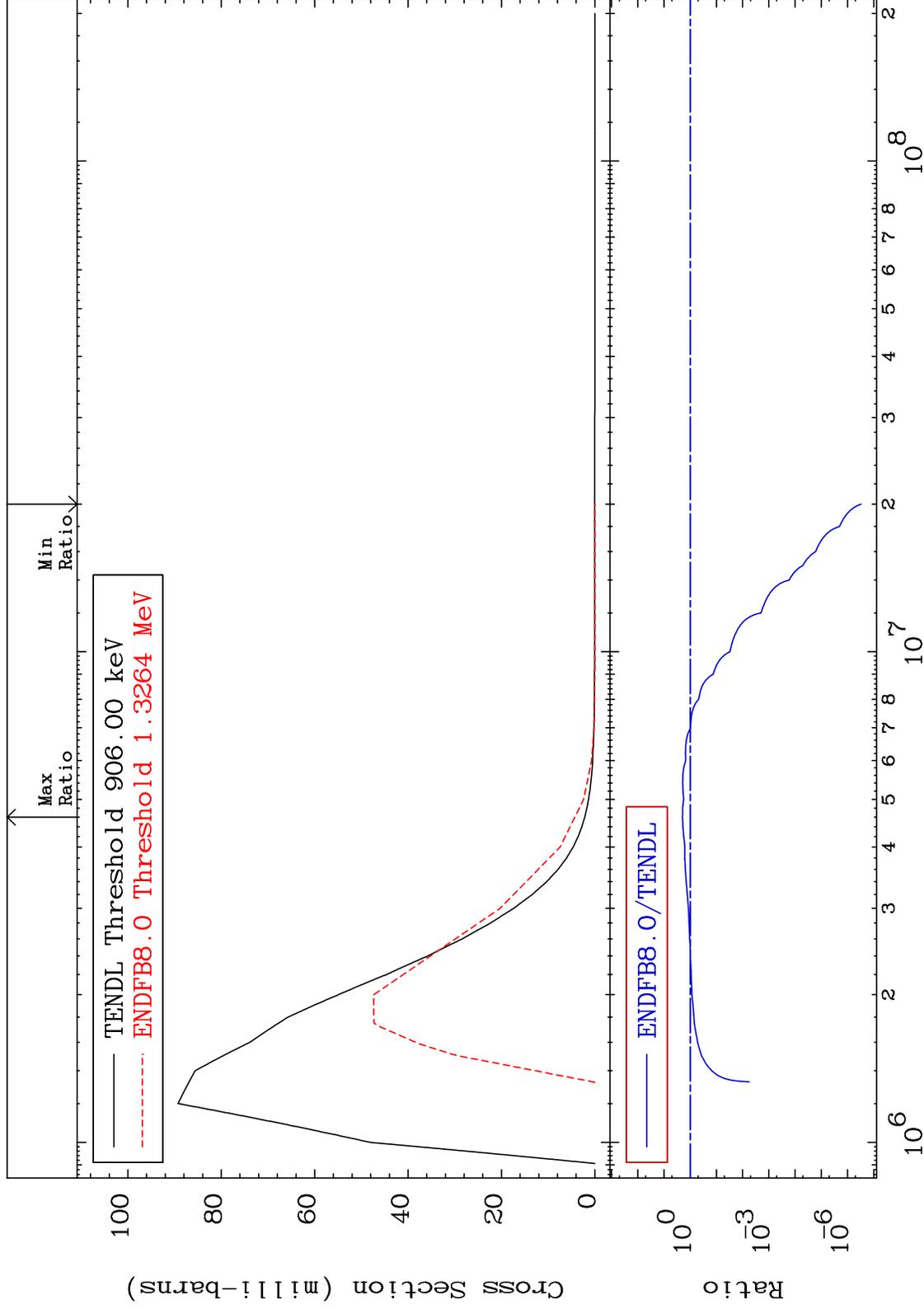
44-Ru-99
-100.0 To 67.34 %



MAT 4434

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

44-Ru-99
-100.0 To 97.82 %



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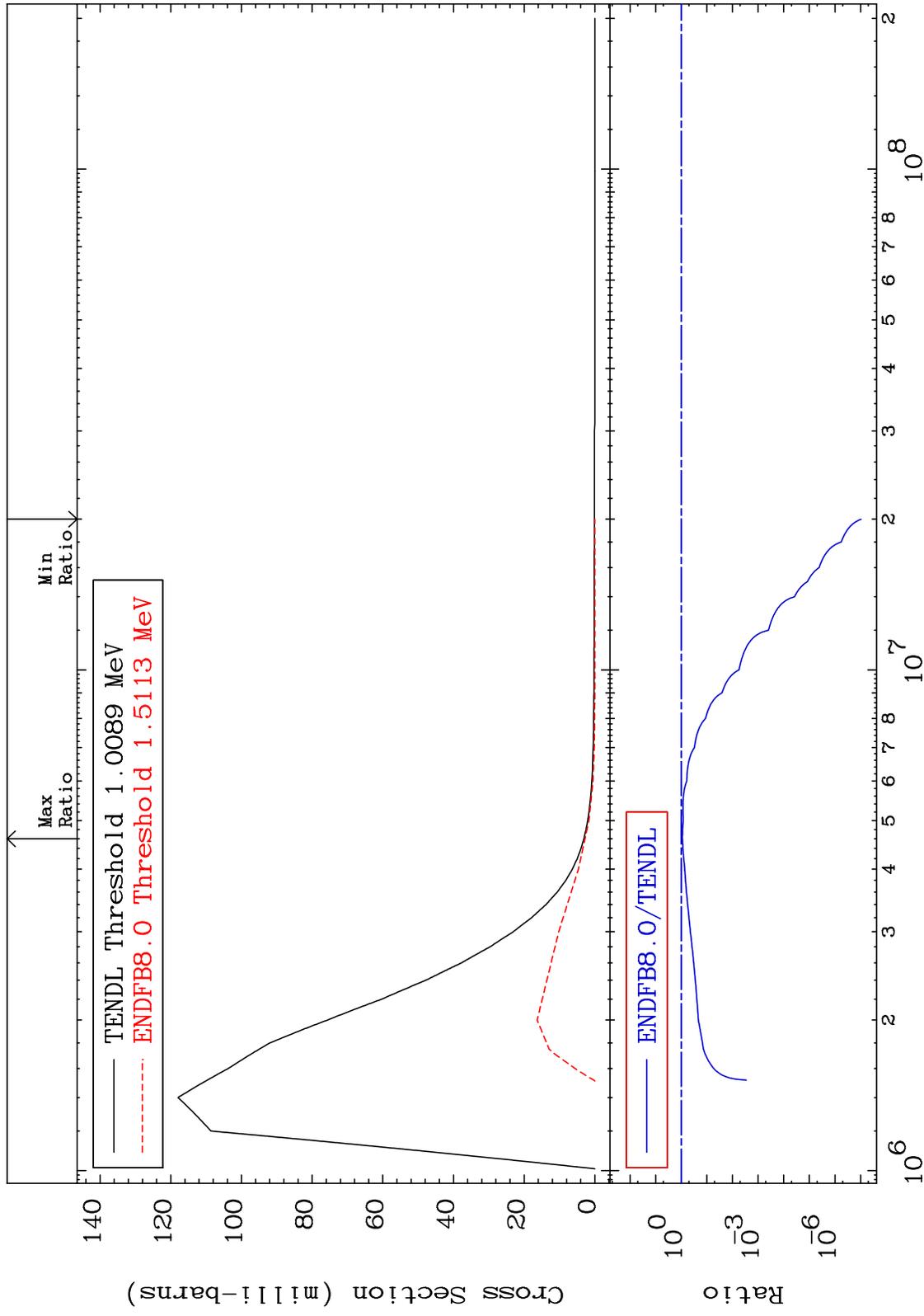
Incident Energy (eV)

44-Ru-99

MAT 4434

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

44-Ru-99
-100.0 To -10.15%



19

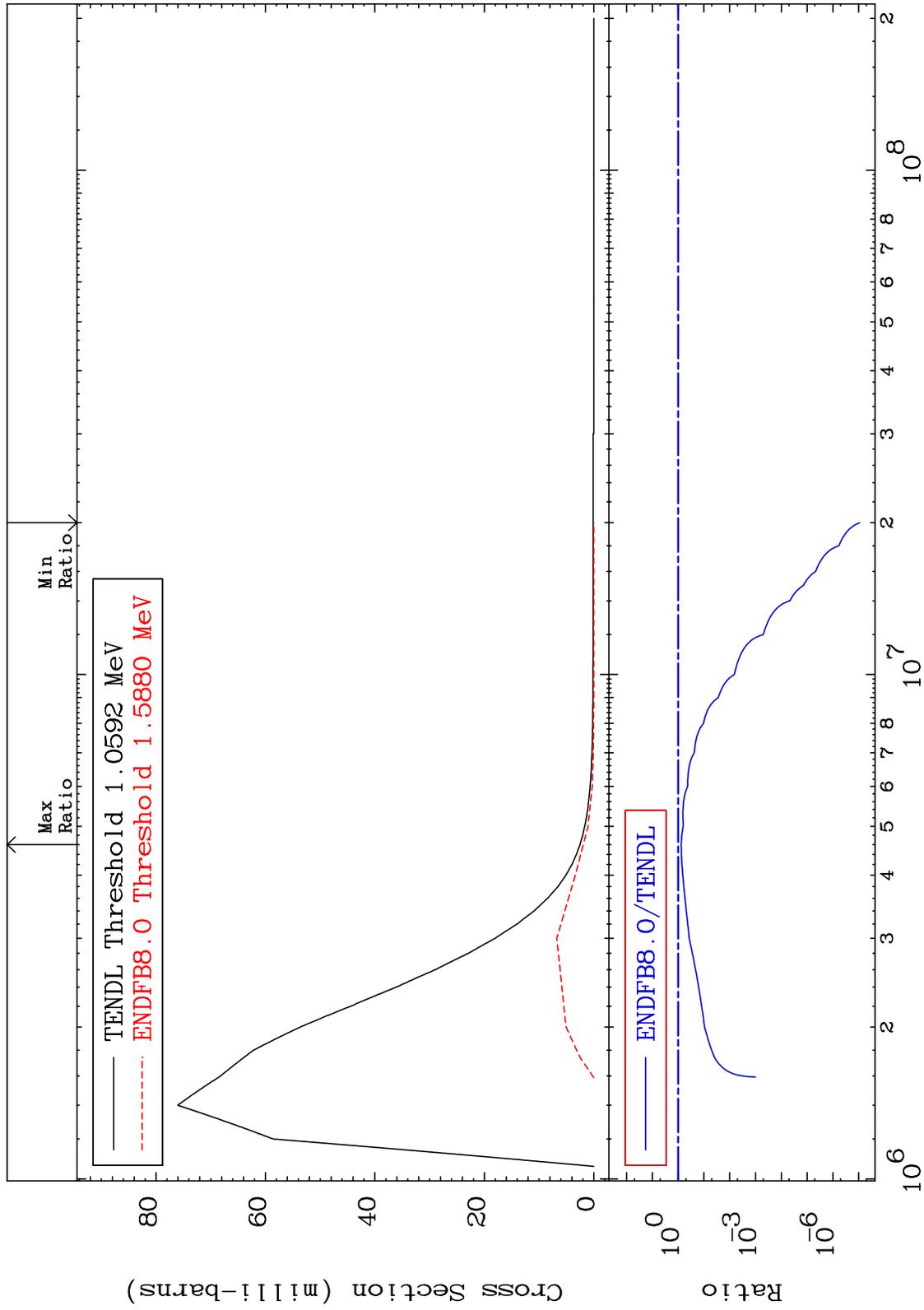
Incident Energy (eV)

44-Ru-99

MAT 4434

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

44-Ru-99
-100.0 To -23.82%



20

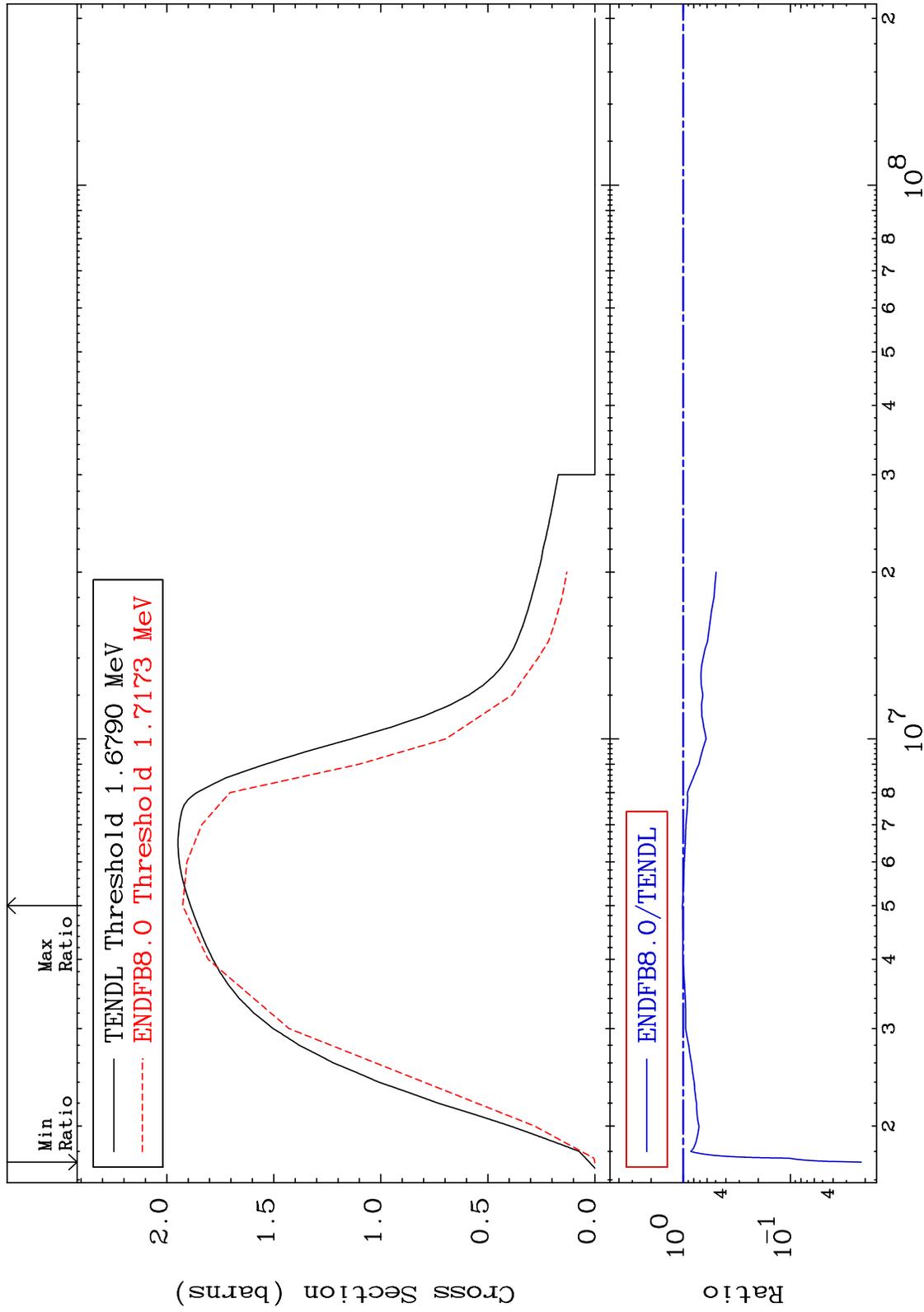
Incident Energy (eV)

44-Ru-99

MAT 4434

(n,n') Continuum
Cross Section

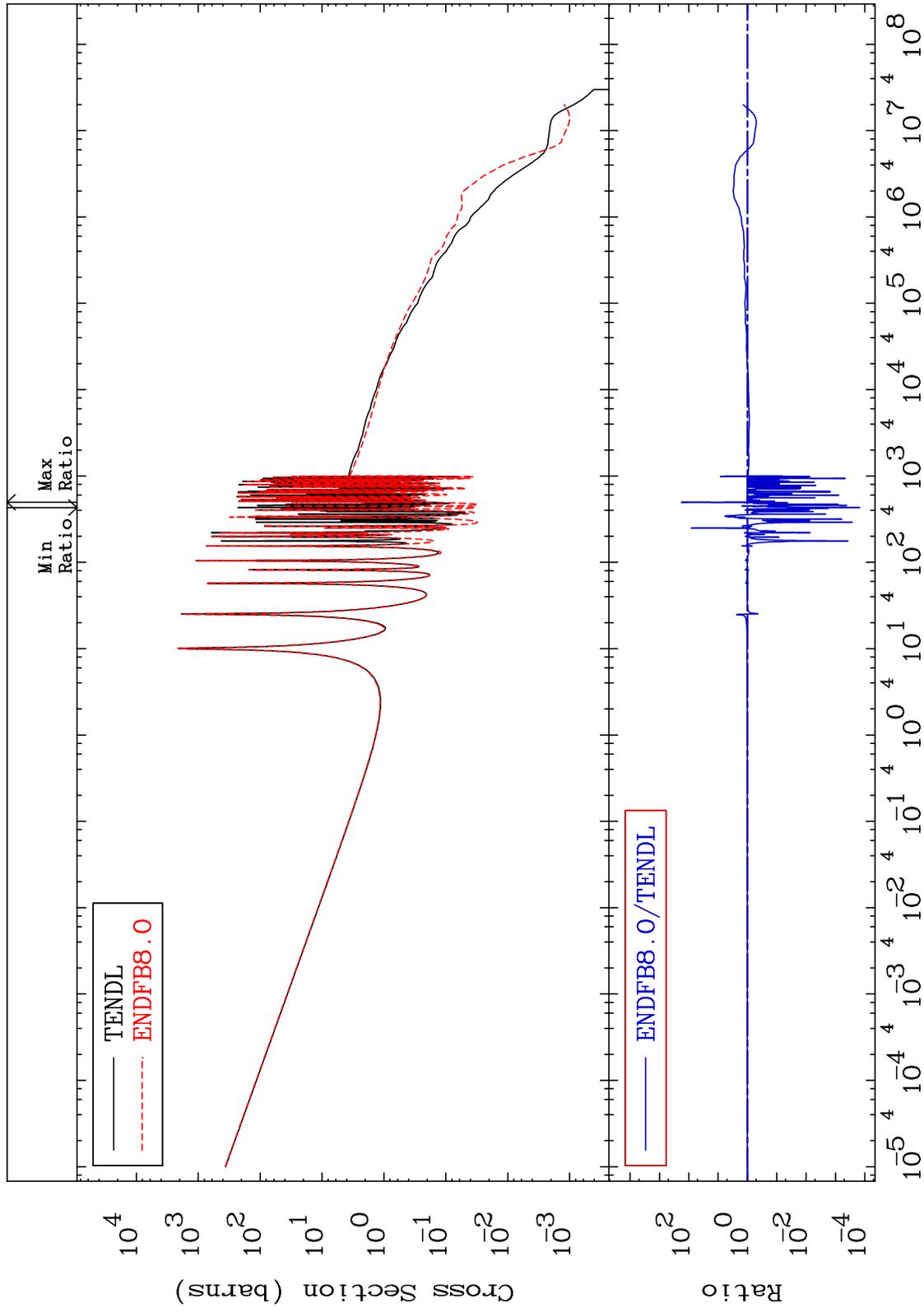
44-Ru-99
-97.82 To 1.941 %



MAT 4434

(n, γ)
Cross Section

44-Ru-99
-99.99 To 9999. %



MAT 4434

(n,p)

44-Ru-99

-99.99 To 80.46 %

Cross Section

Min Ratio

Max Ratio

TENDL Threshold 994.60 eV
ENDFB8.0 Threshold 100.00 keV

Cross Section (milli-barns)

80

60

40

20

0

10^0

10^{-2}

10^{-4}

ENDFB8.0/TENDL

10^3

10^4

10^5

10^6

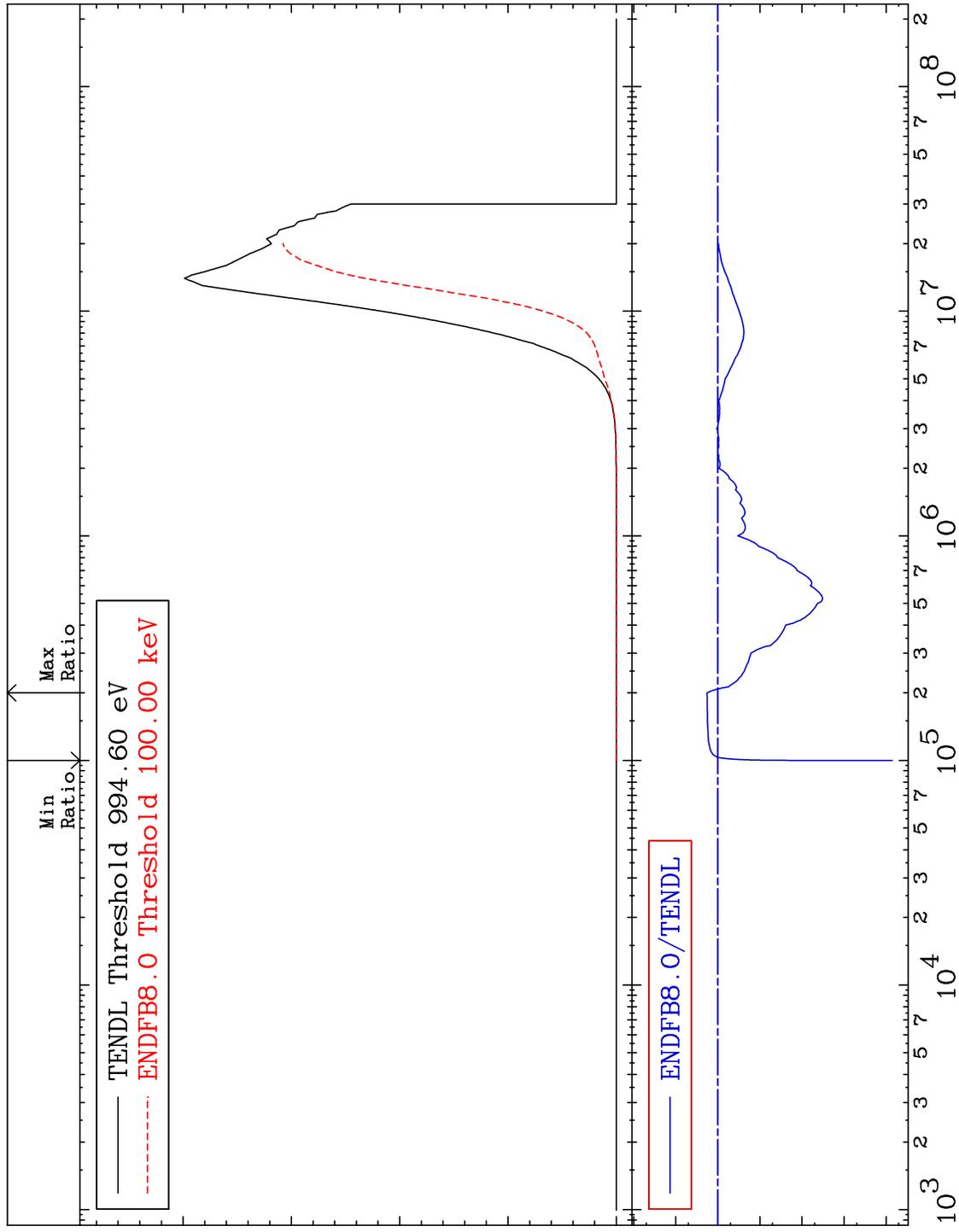
10^7

10^8

23

Incident Energy (eV)

44-Ru-99



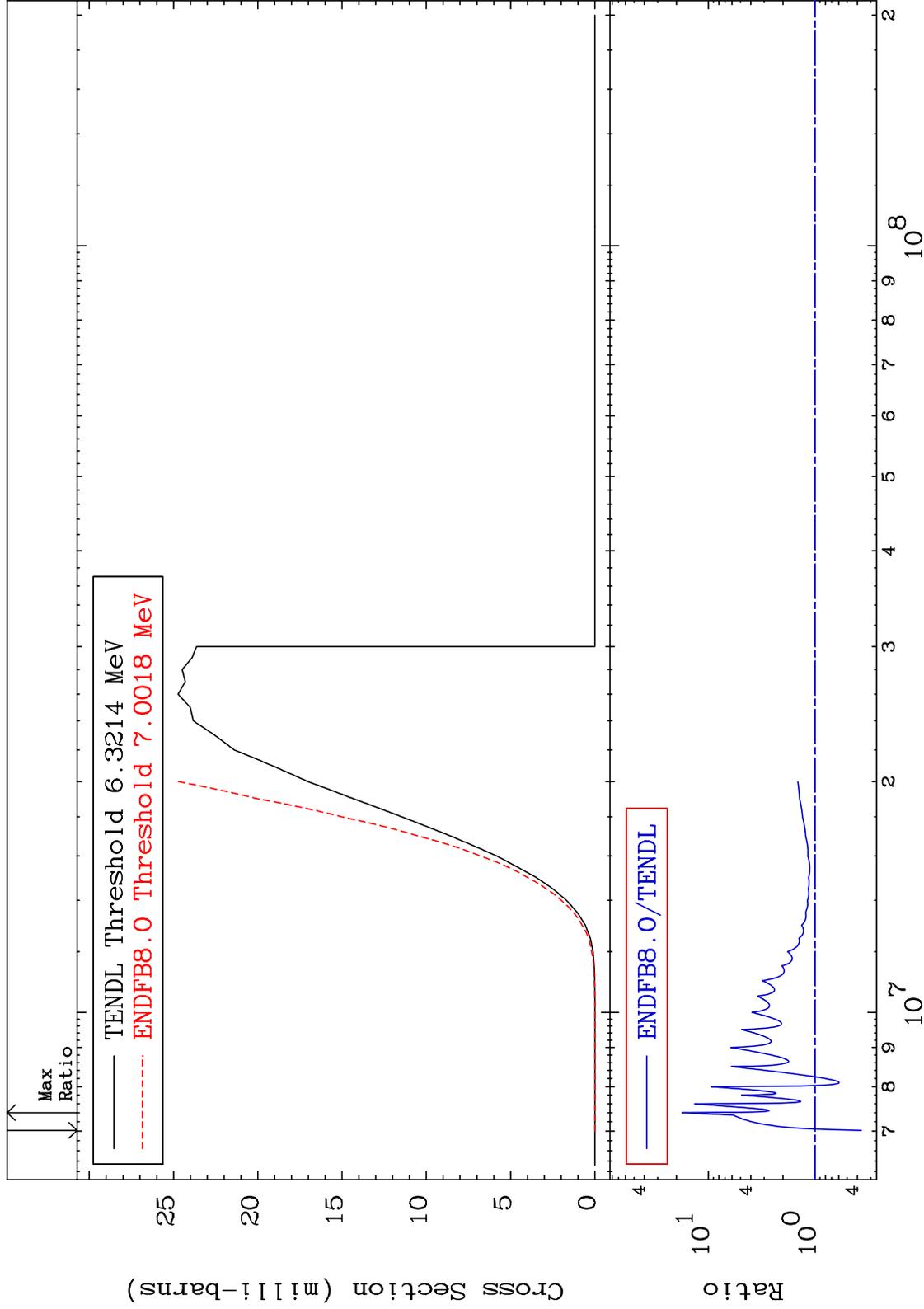
MAT 4434

(n,d)

44-Ru-99

Cross Section

-63.22 To 1656. %



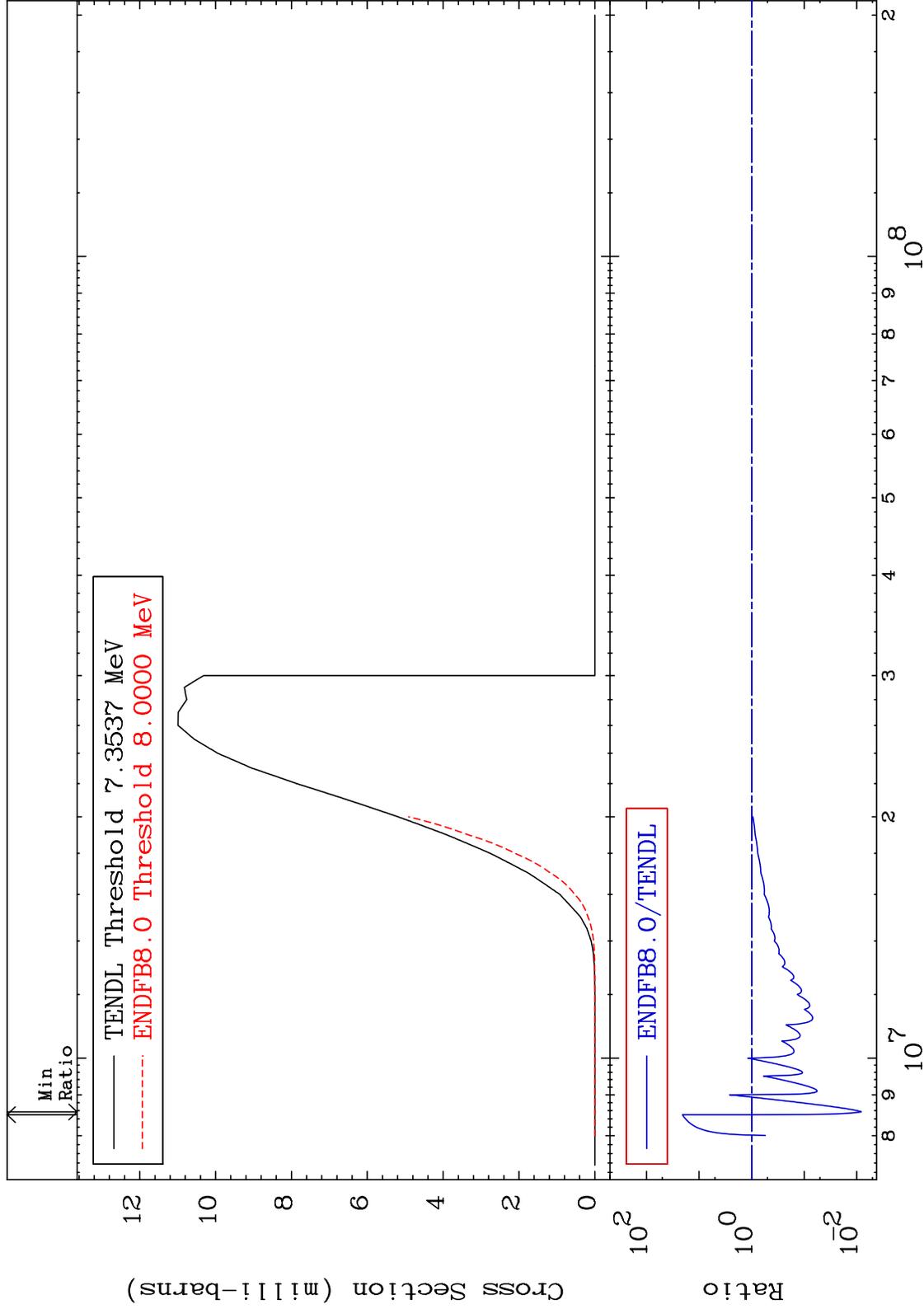
MAT 4434

(n, t)

44-Ru-99

Cross Section

-99.18 To 1972. %



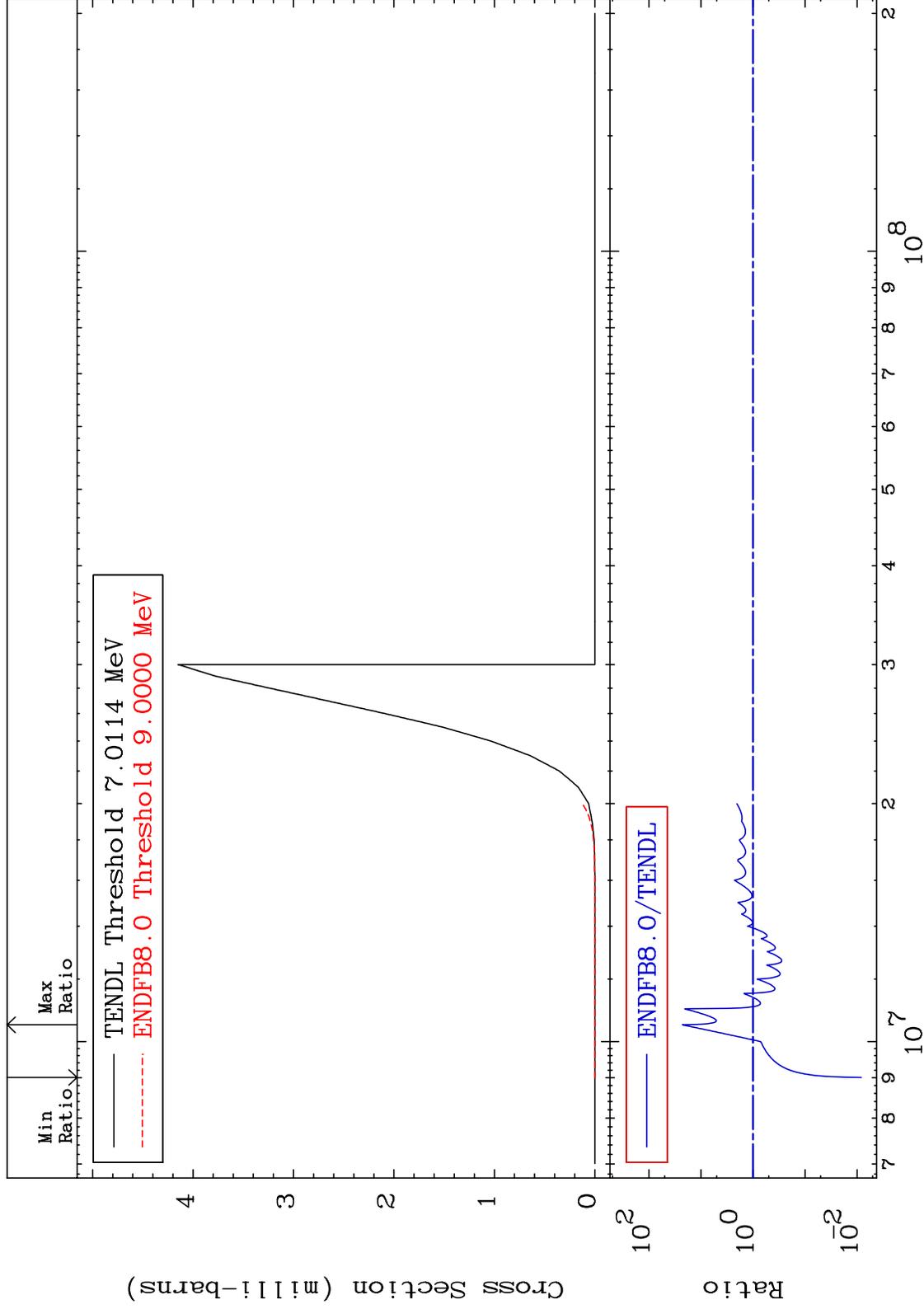
MAT 4434

(n, He-3)

44-Ru-99

Cross Section

-99.17 To 2174. %



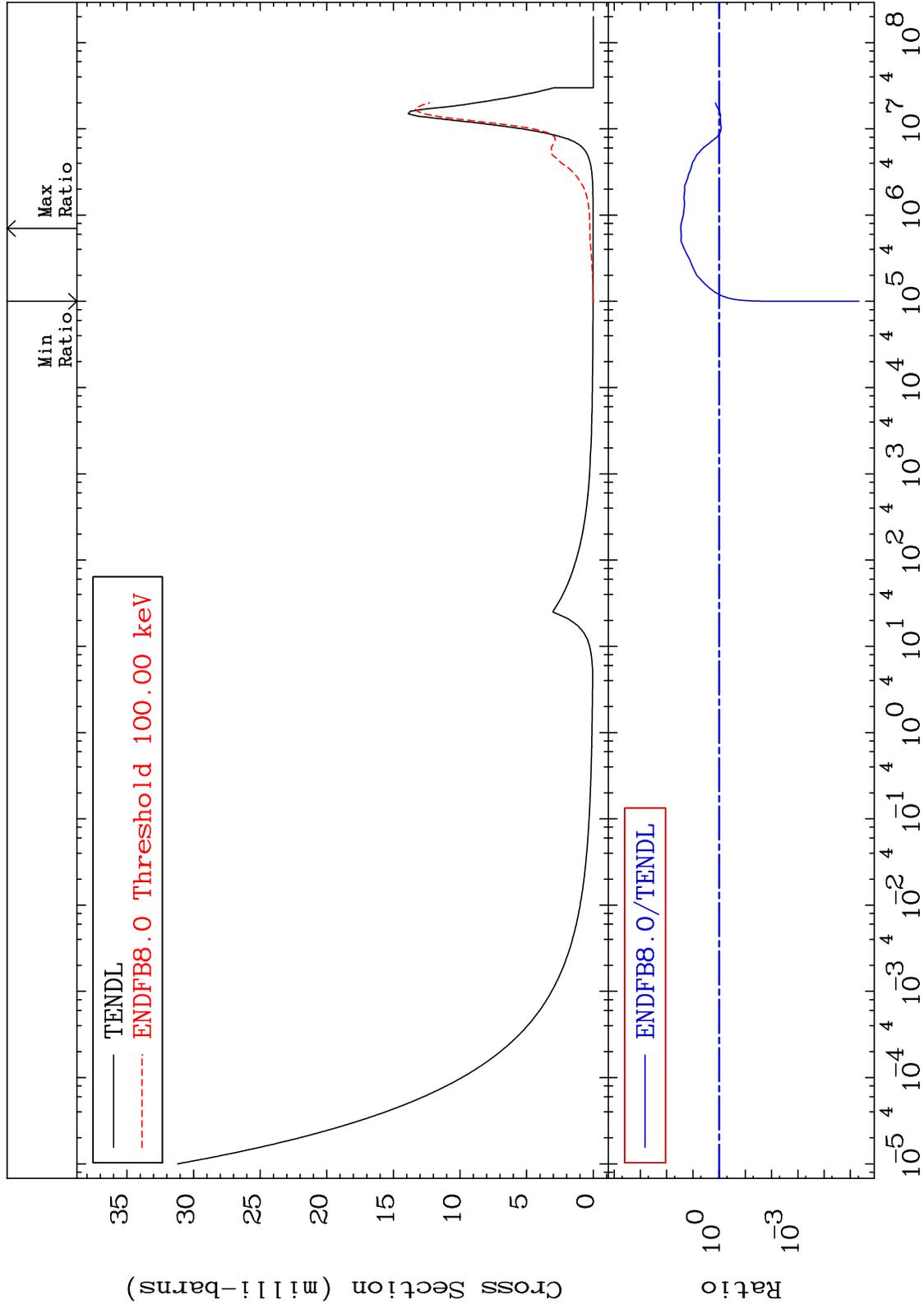
MAT 4434

(n, α)

44-Ru-99

Cross Section

-100.0 To 2837. %



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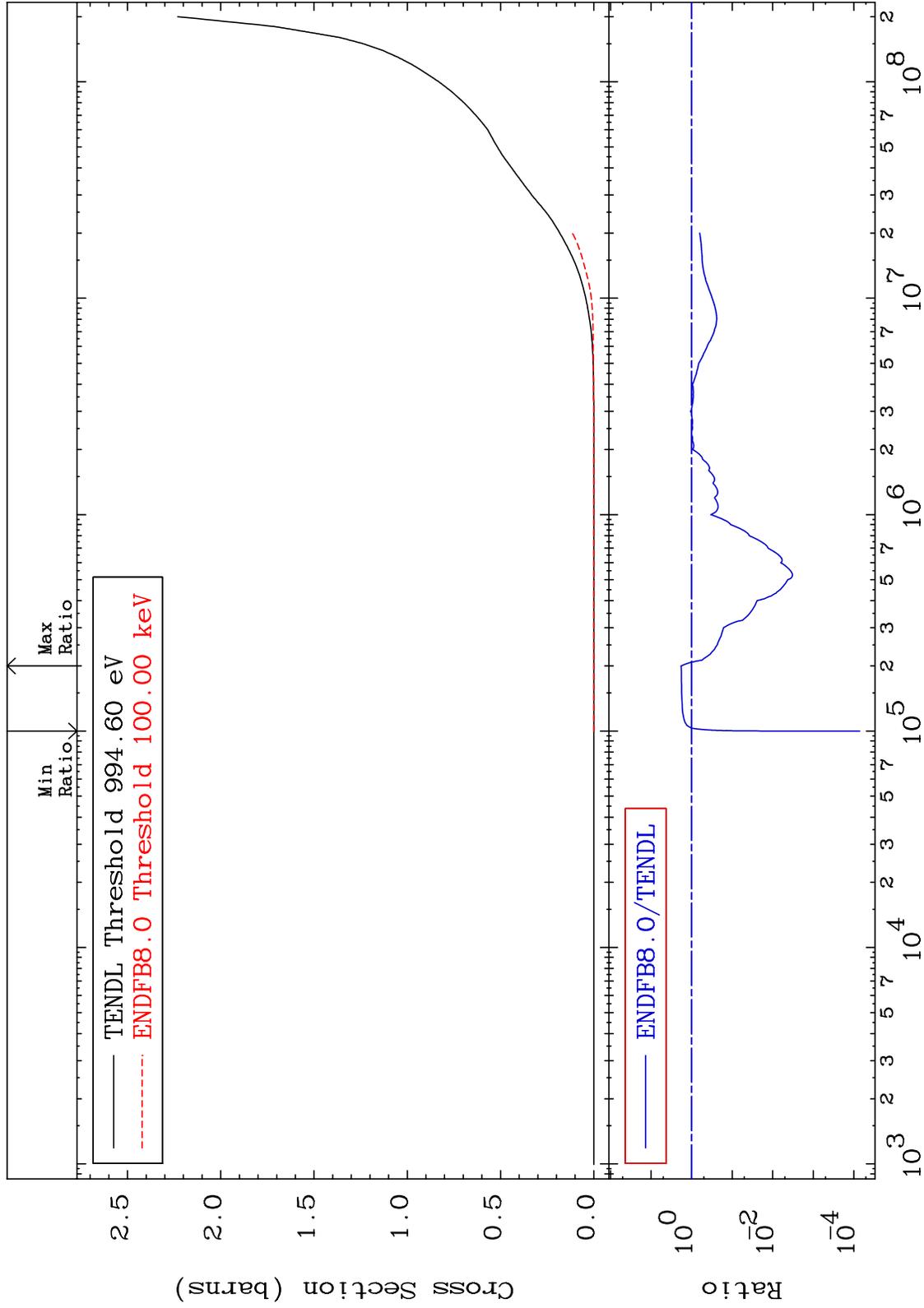
Incident Energy (eV)

44-Ru-99

MAT 4434

Hydrogen Production
Cross Section

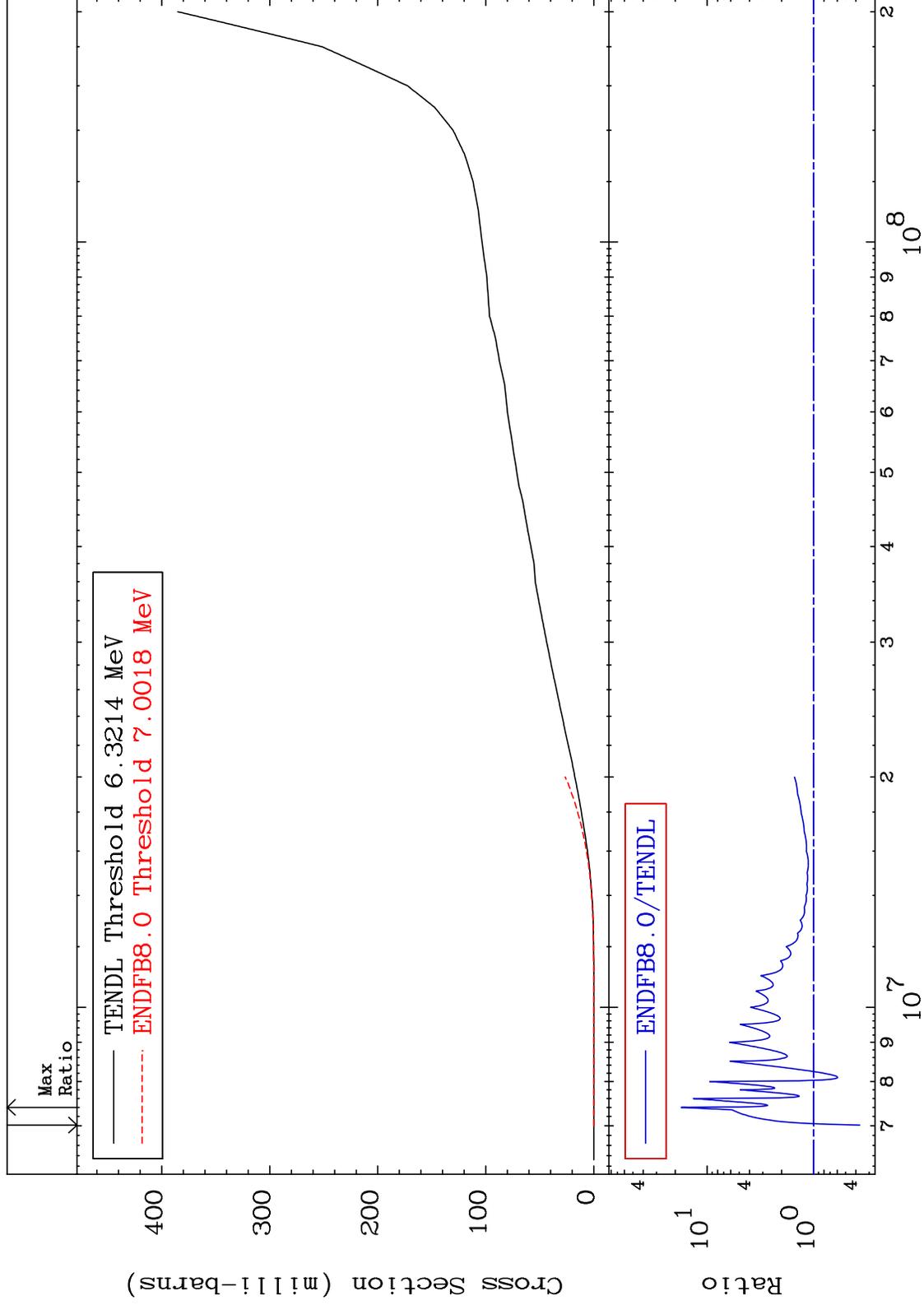
44-Ru-99
-99.99 To 80.46 %

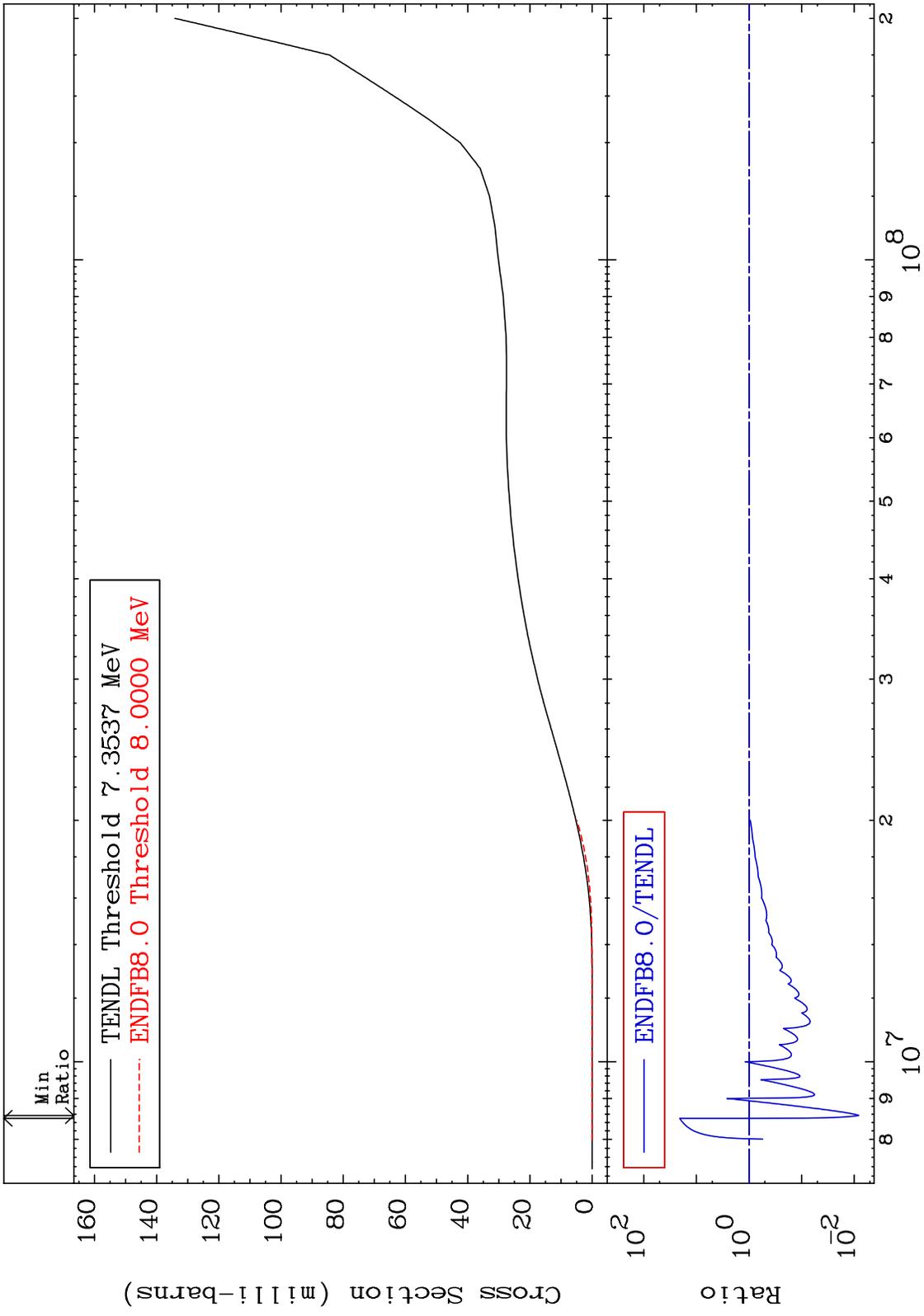


MAT 4434

Deuterium Production
Cross Section

44-Ru-99
-63.22 To 1656. %

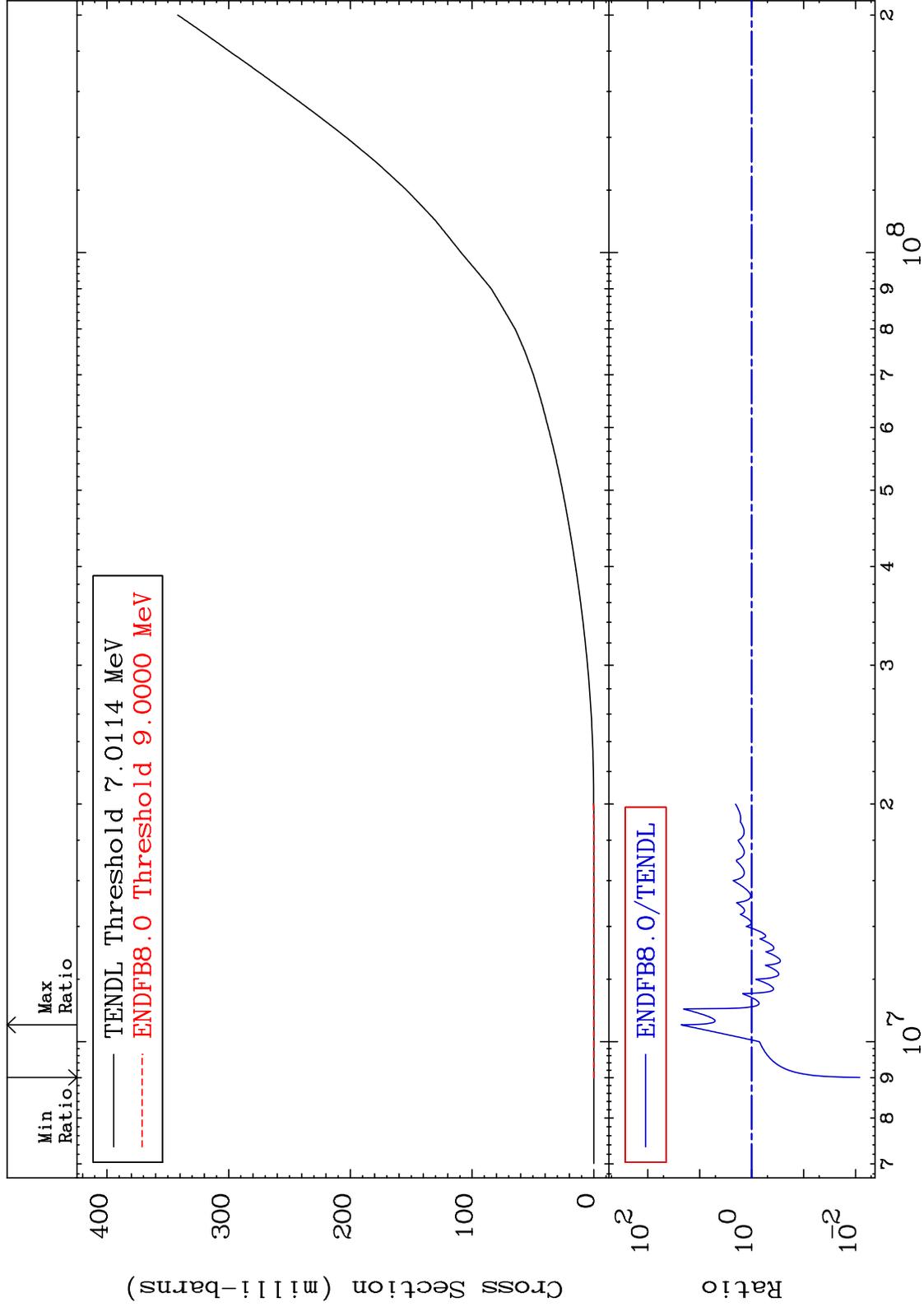




MAT 4434

He-3 Production
Cross Section

44-Ru-99
-99.17 To 2174. %



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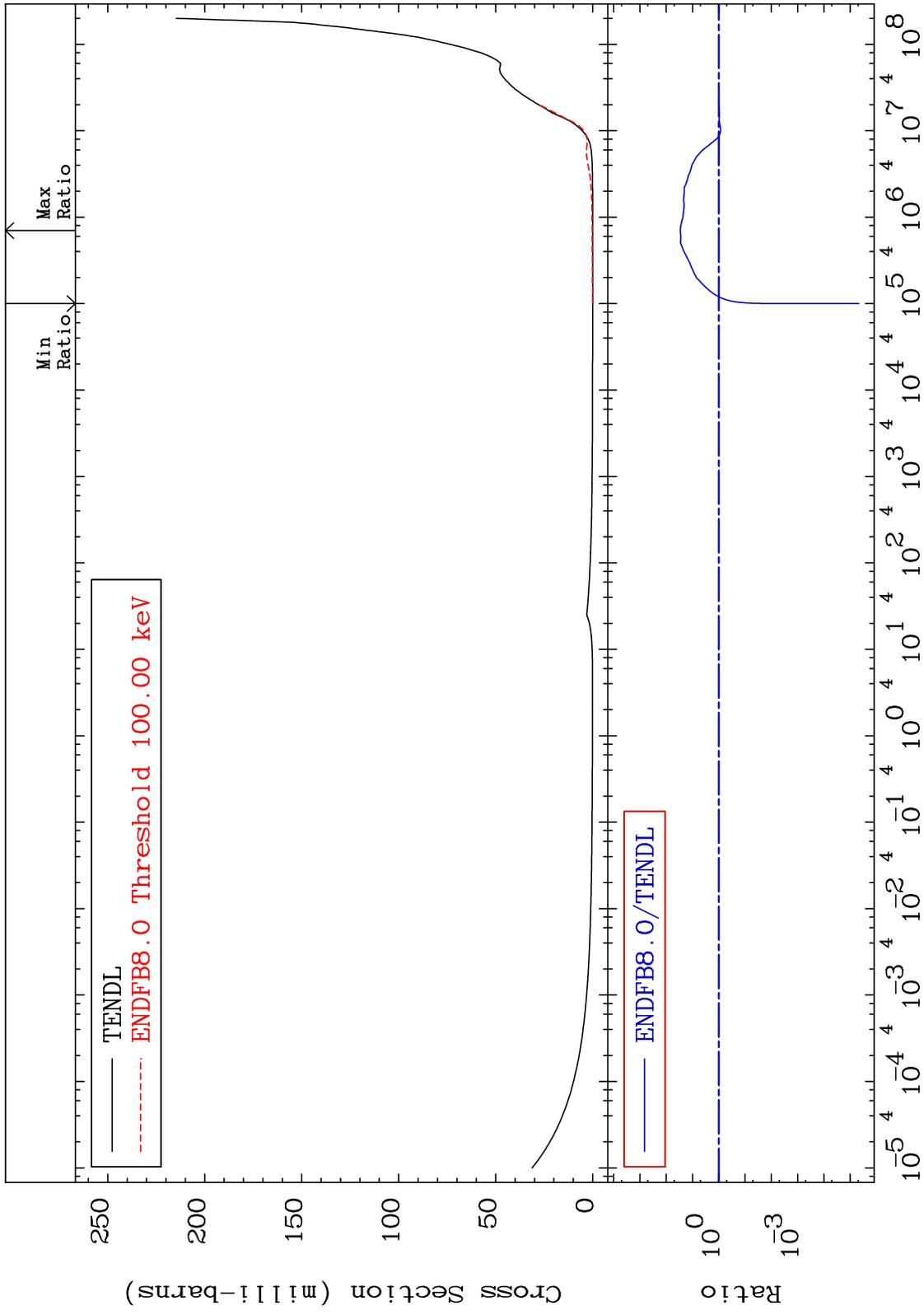
Incident Energy (eV)

44-Ru-99

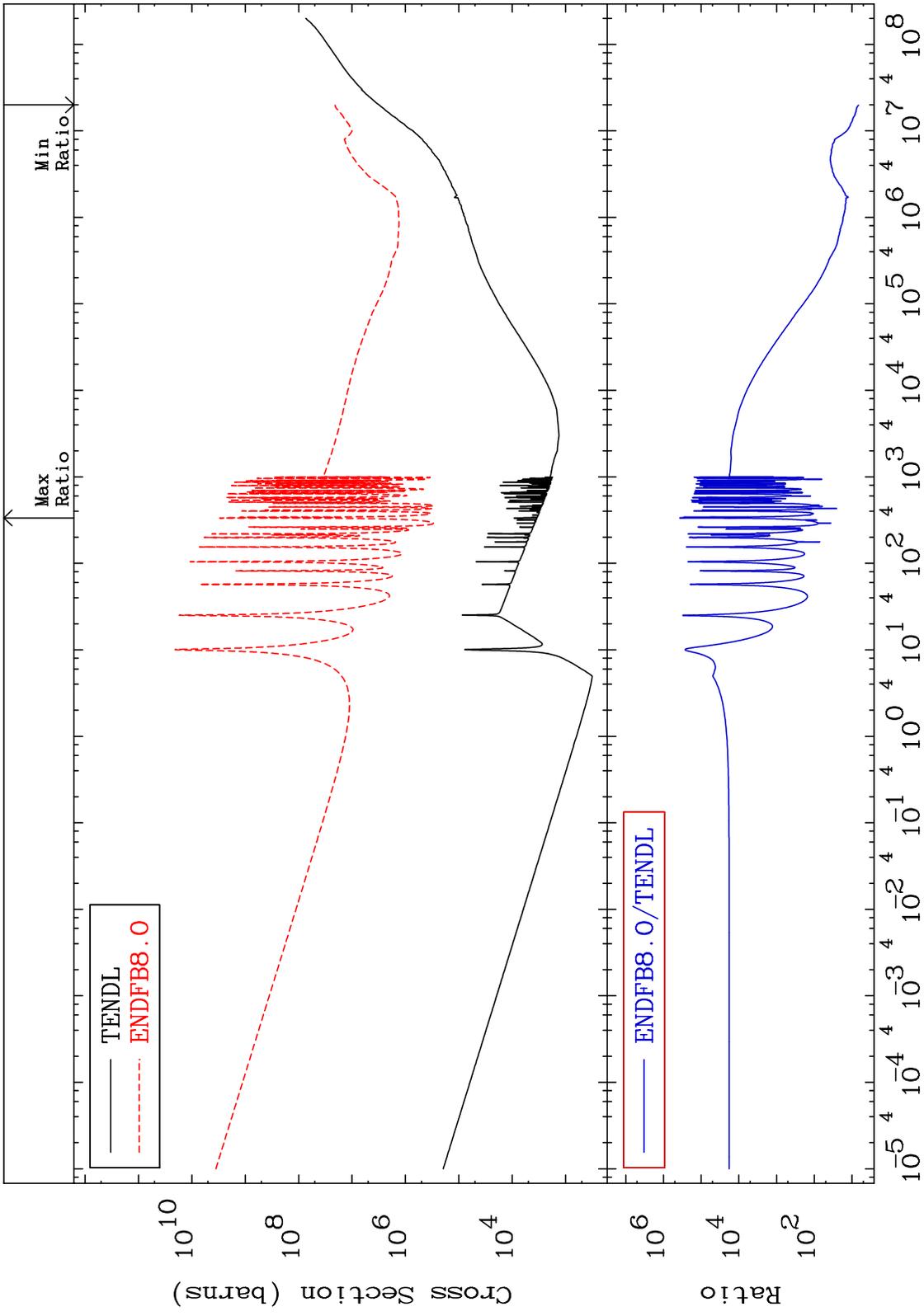
MAT 4434

He-4 Production
Cross Section

44-Ru-99
-100.0 To 2837. %



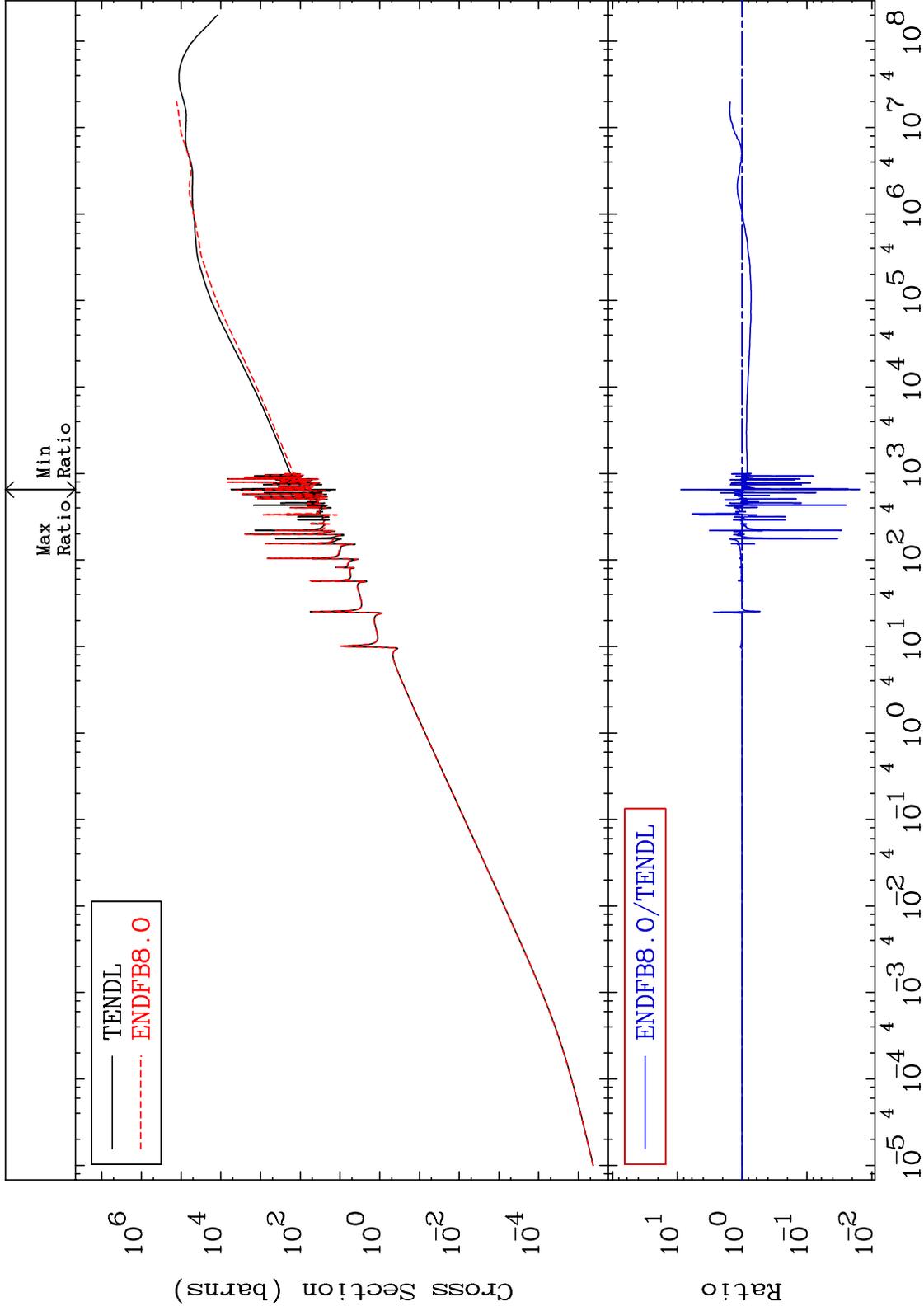
MAT 4434 Kerma total (eV-barns) 44-Ru-99
 Cross Section 560.4 To 9999. %



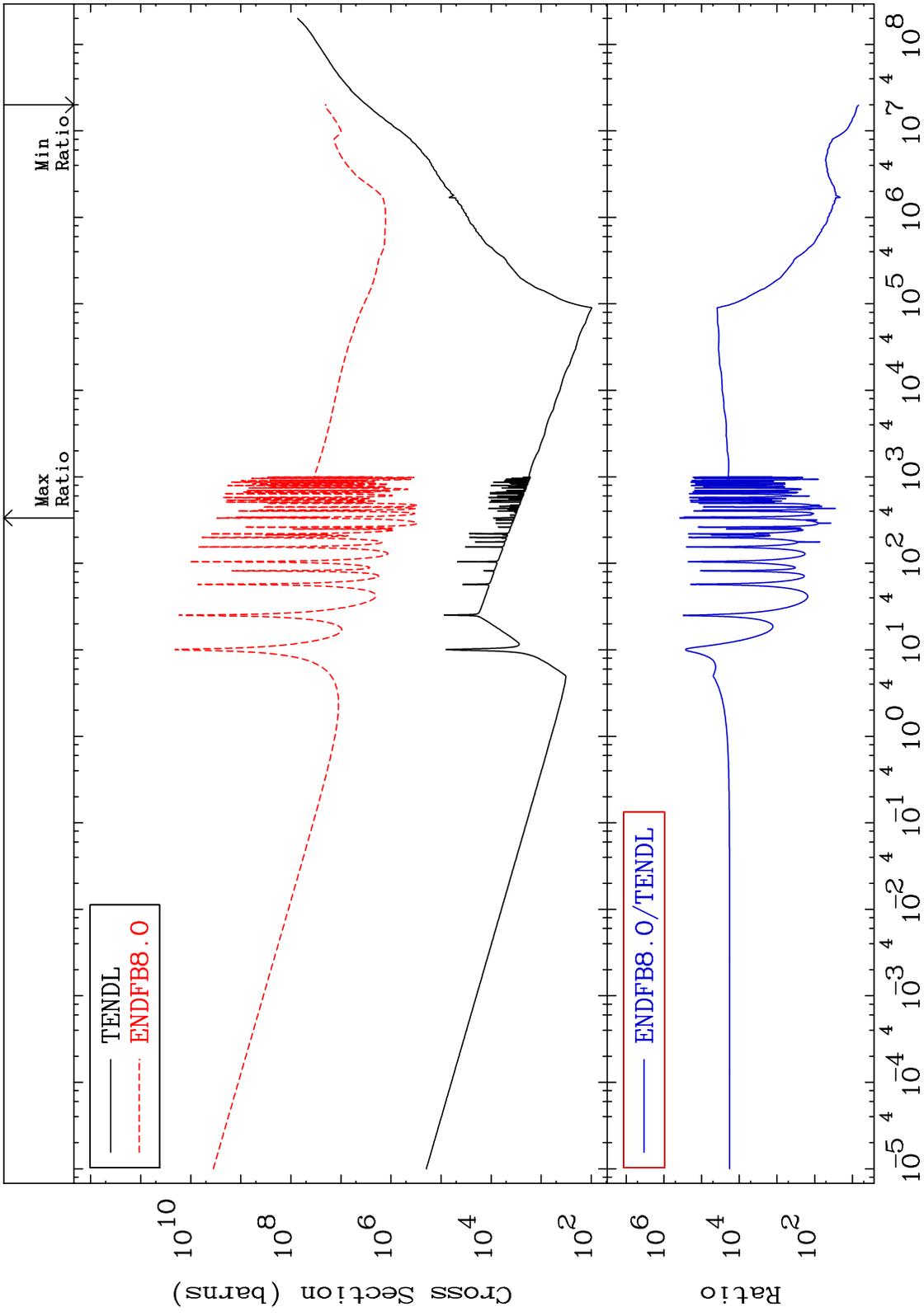
MAT 4434

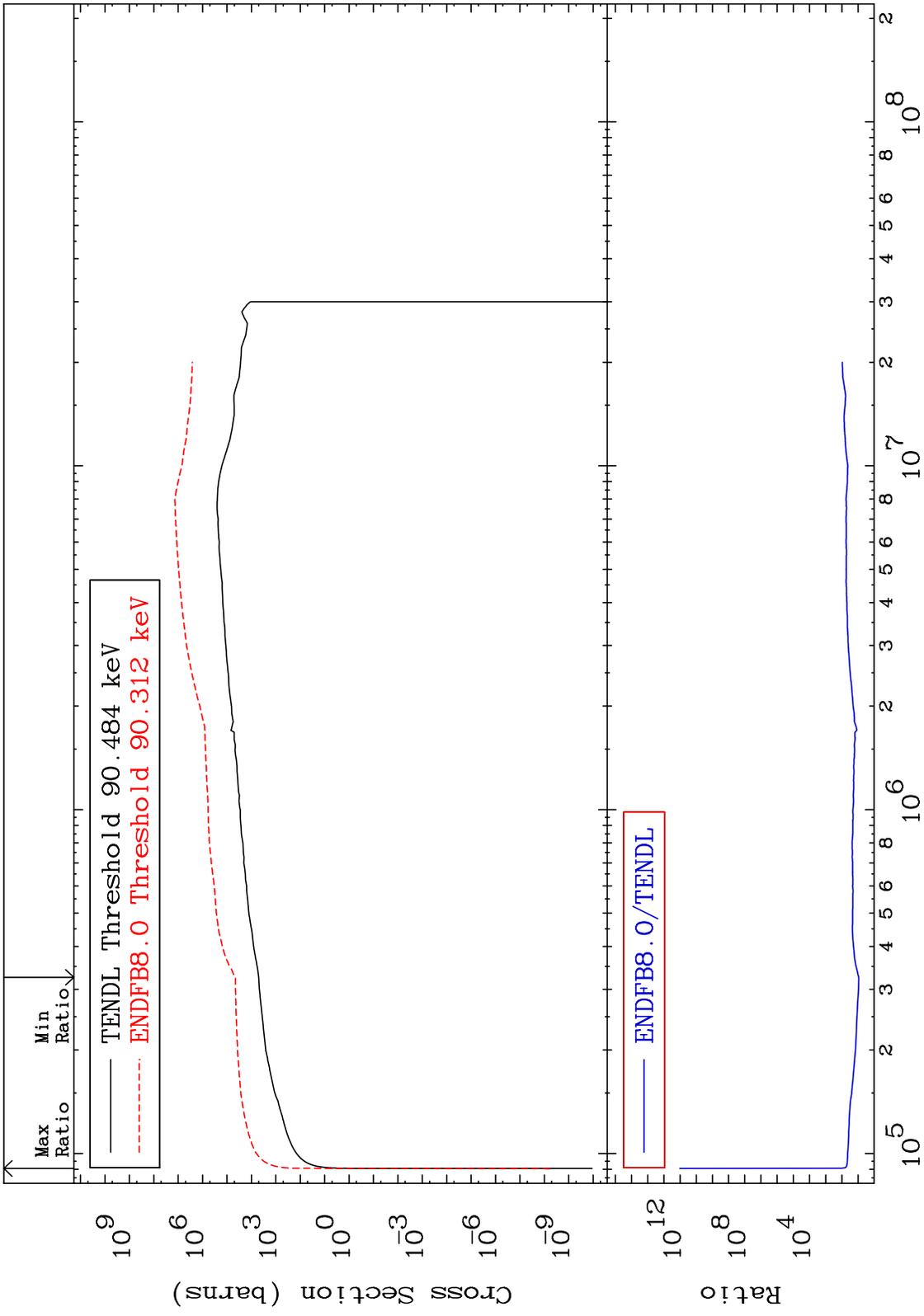
Kerma elastic
Cross Section

44-Ru-99
-98.46 To 786.4 %



MAT 4434 Kerma non-elastic (all but mt2) Cross Section 44-Ru-99
 574.6 To 9999. %

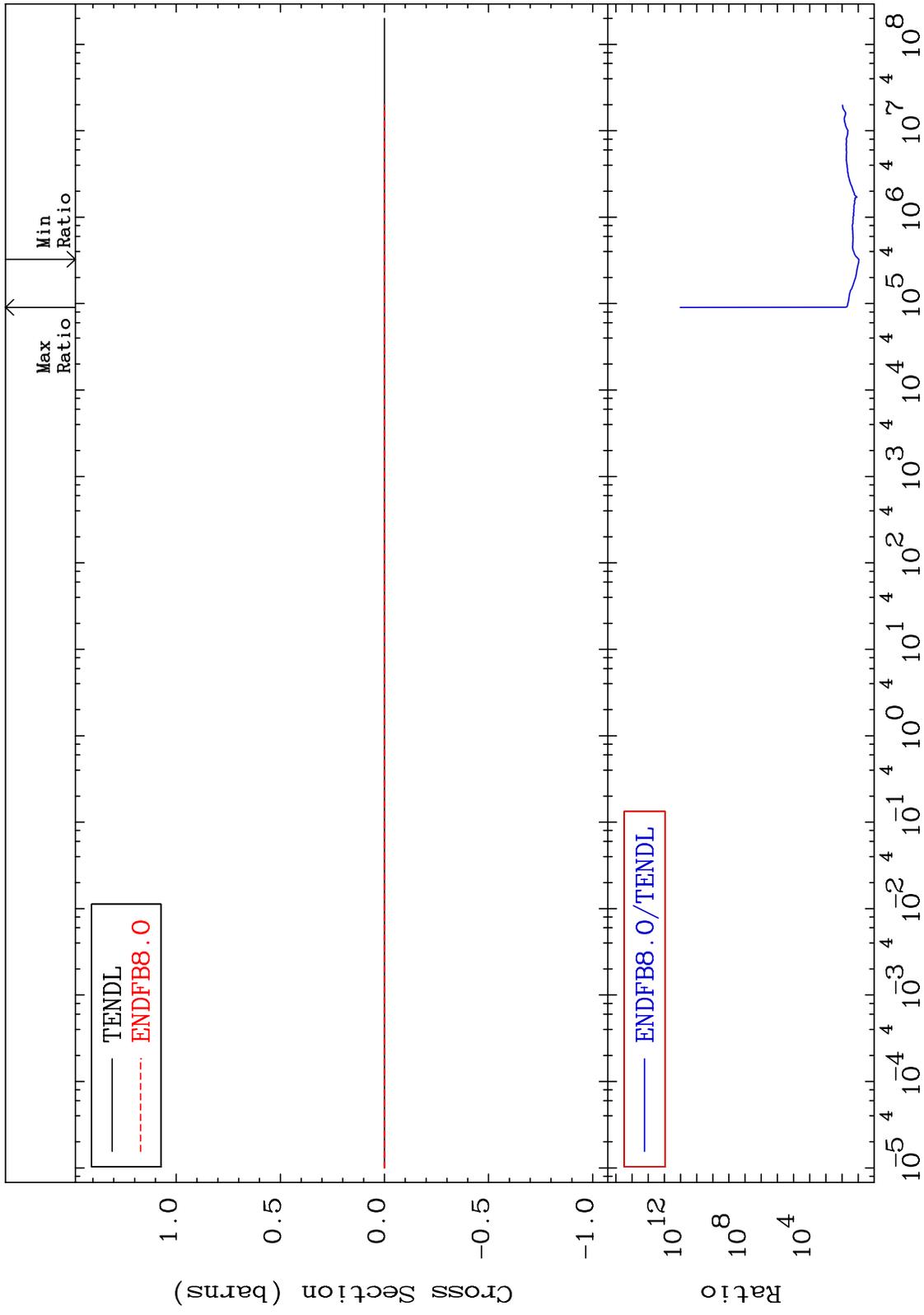




MAT 4434

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

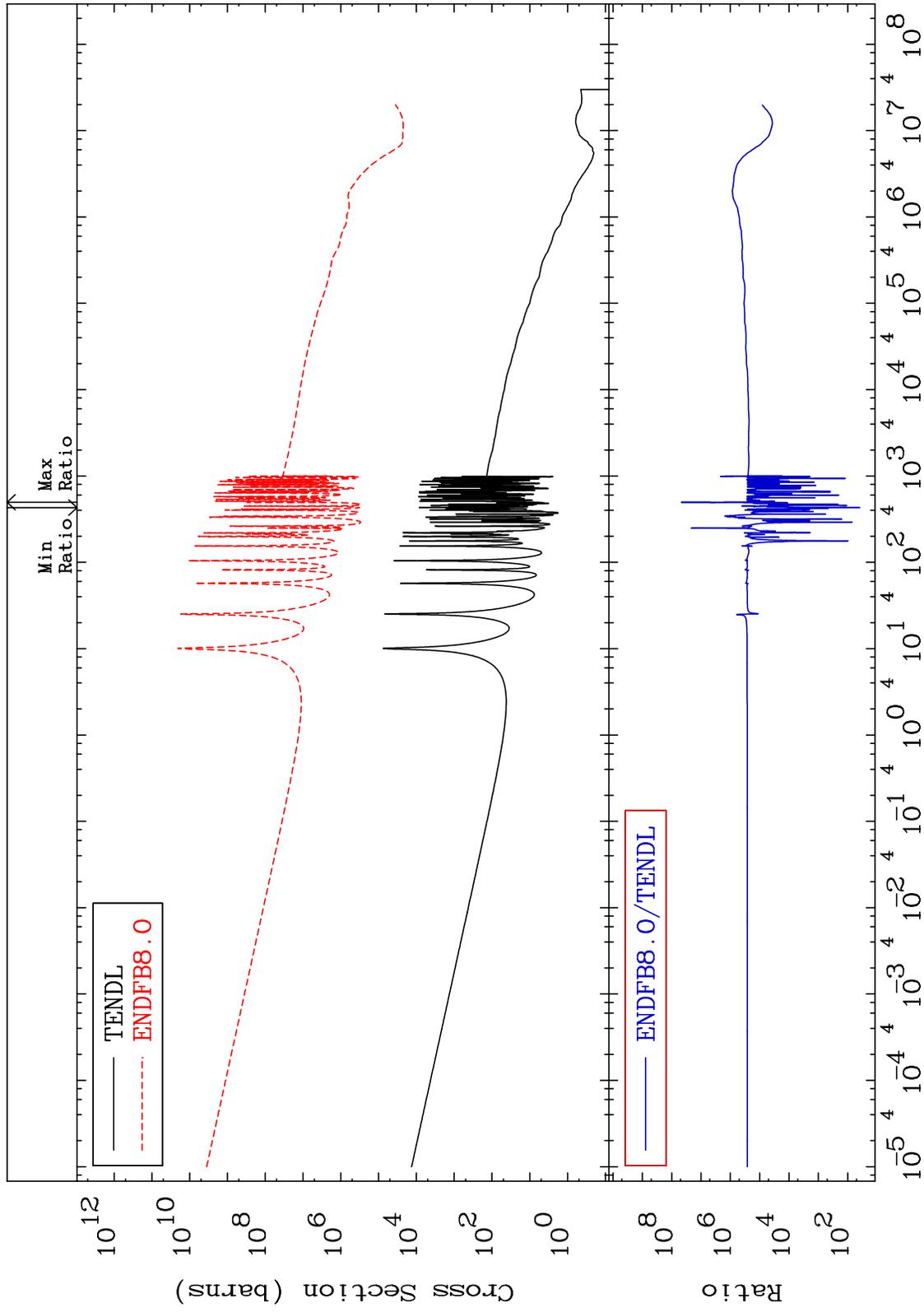
44-Ru-99
797.8 To 9999. %



MAT 4434

Kerma capture (mt102)
Cross Section

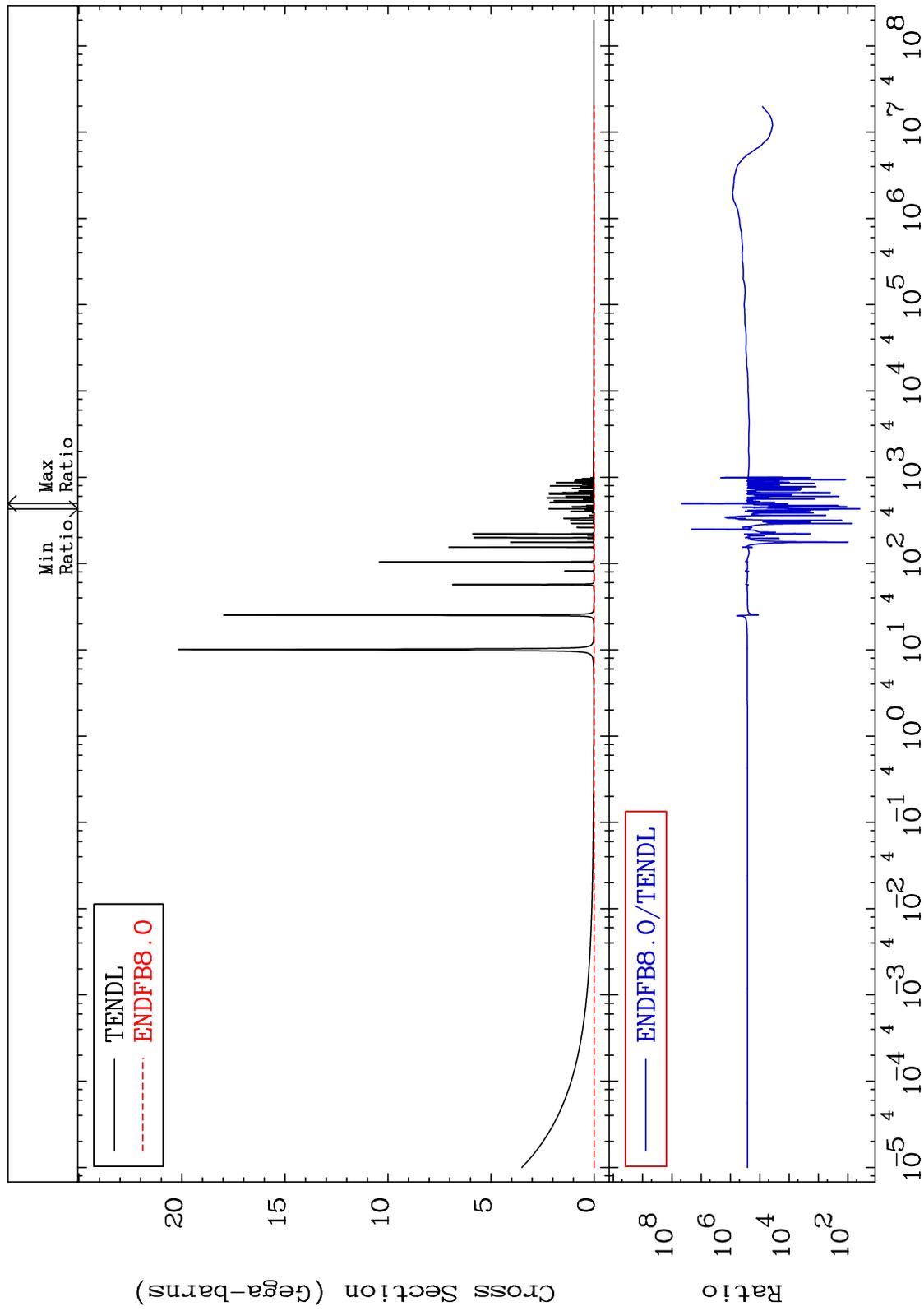
44-Ru-99
3761. To 9999. %



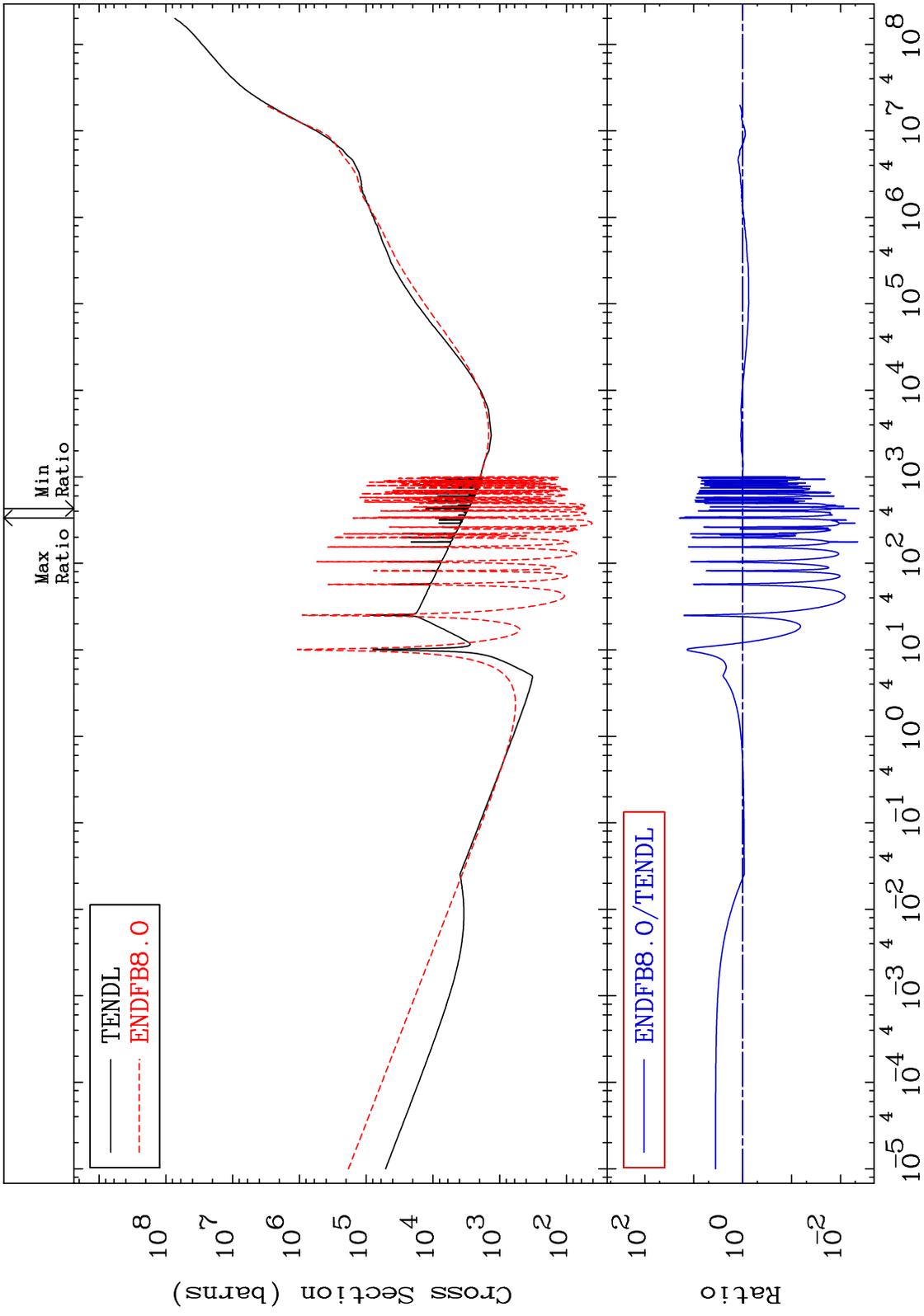
MAT 4434

Total photon (eV-barns)
Cross Section

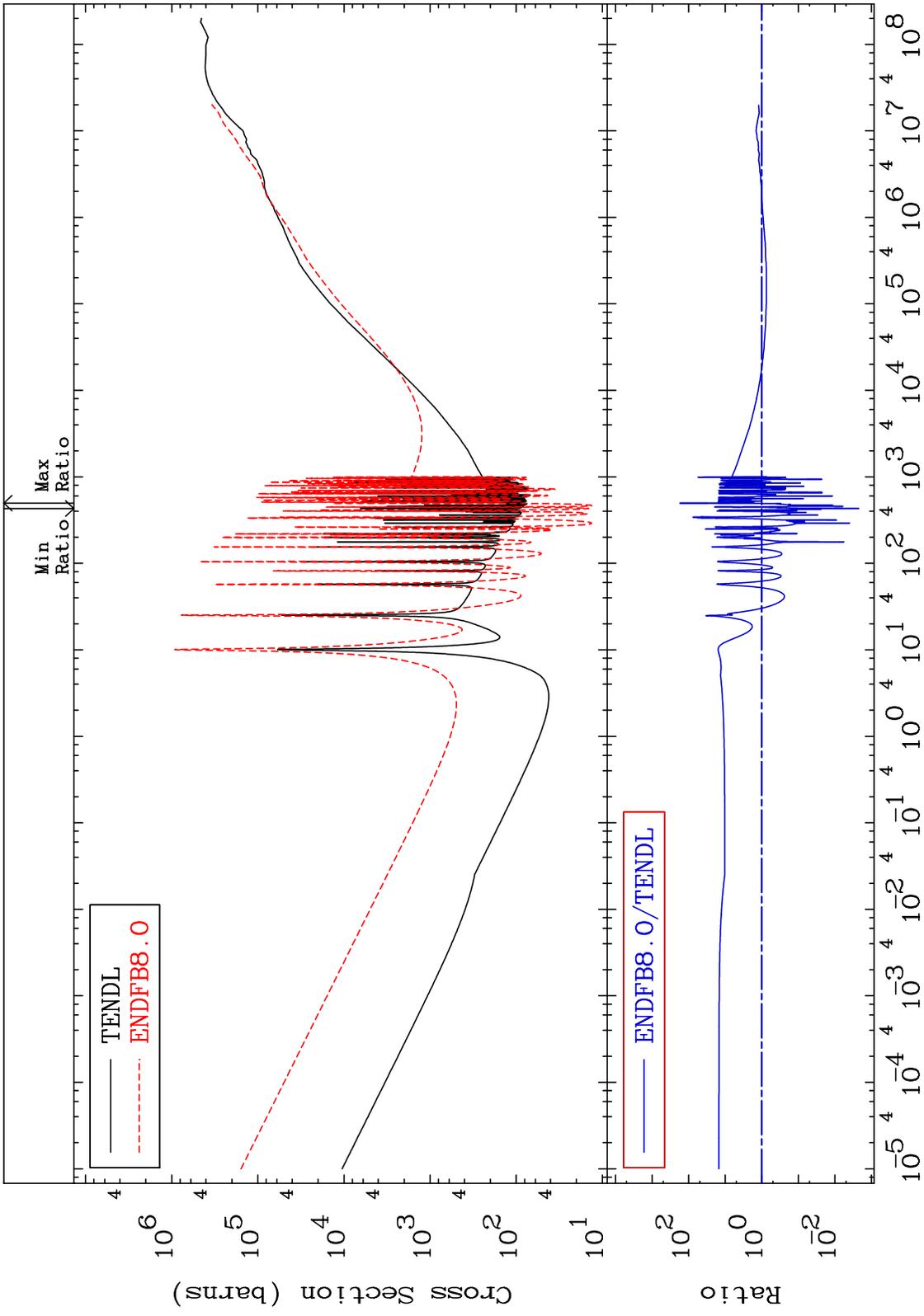
44-Ru-99
3761. To 9999. %



MAT 4434 Total kinematic kerma (high limit) 44-Ru-99
 Cross Section -99.58 To 1835. %



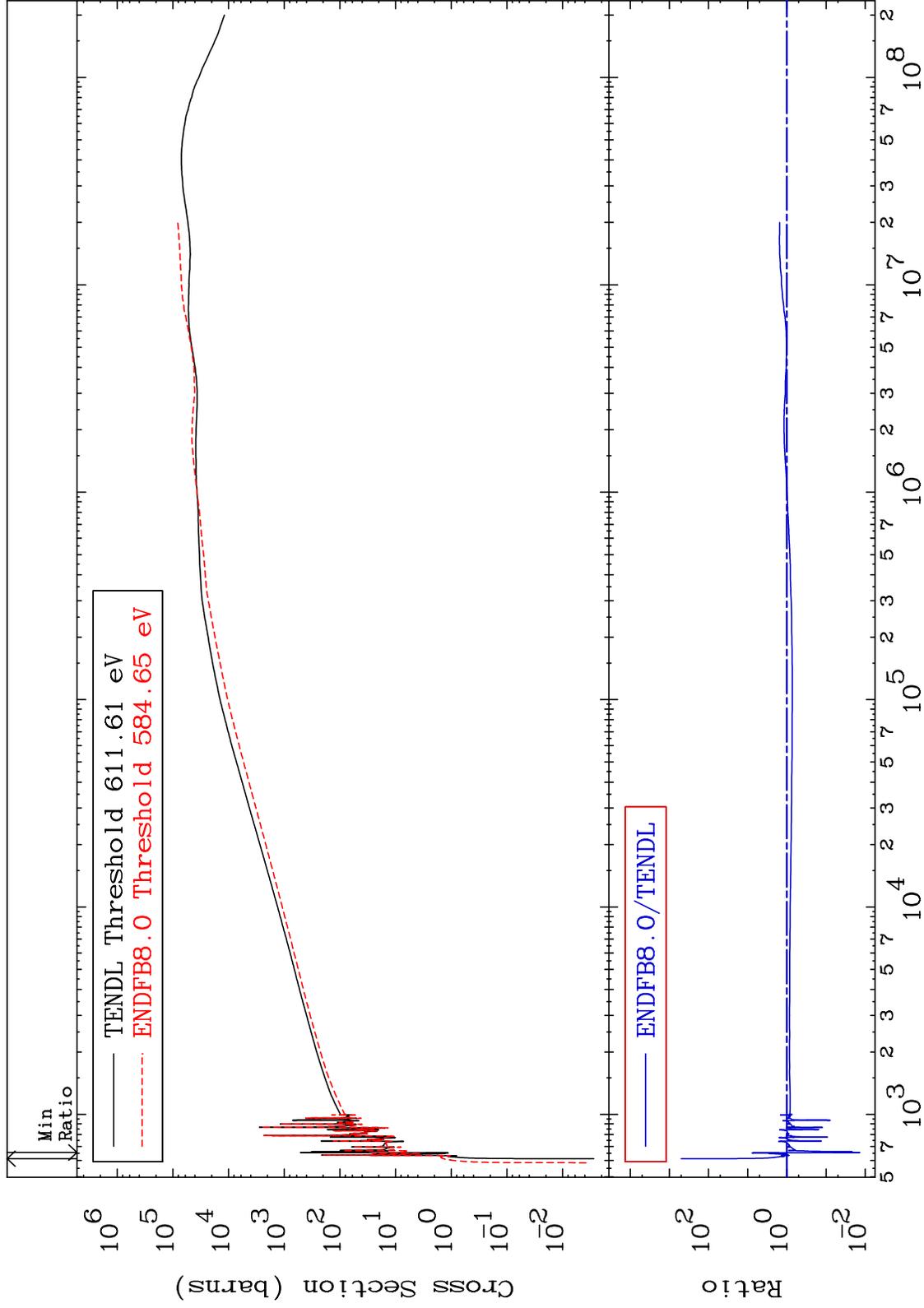
MAT 4434 Dpa total (eV-barns) 44-Ru-99
 Cross Section -99.78 To 9999. %

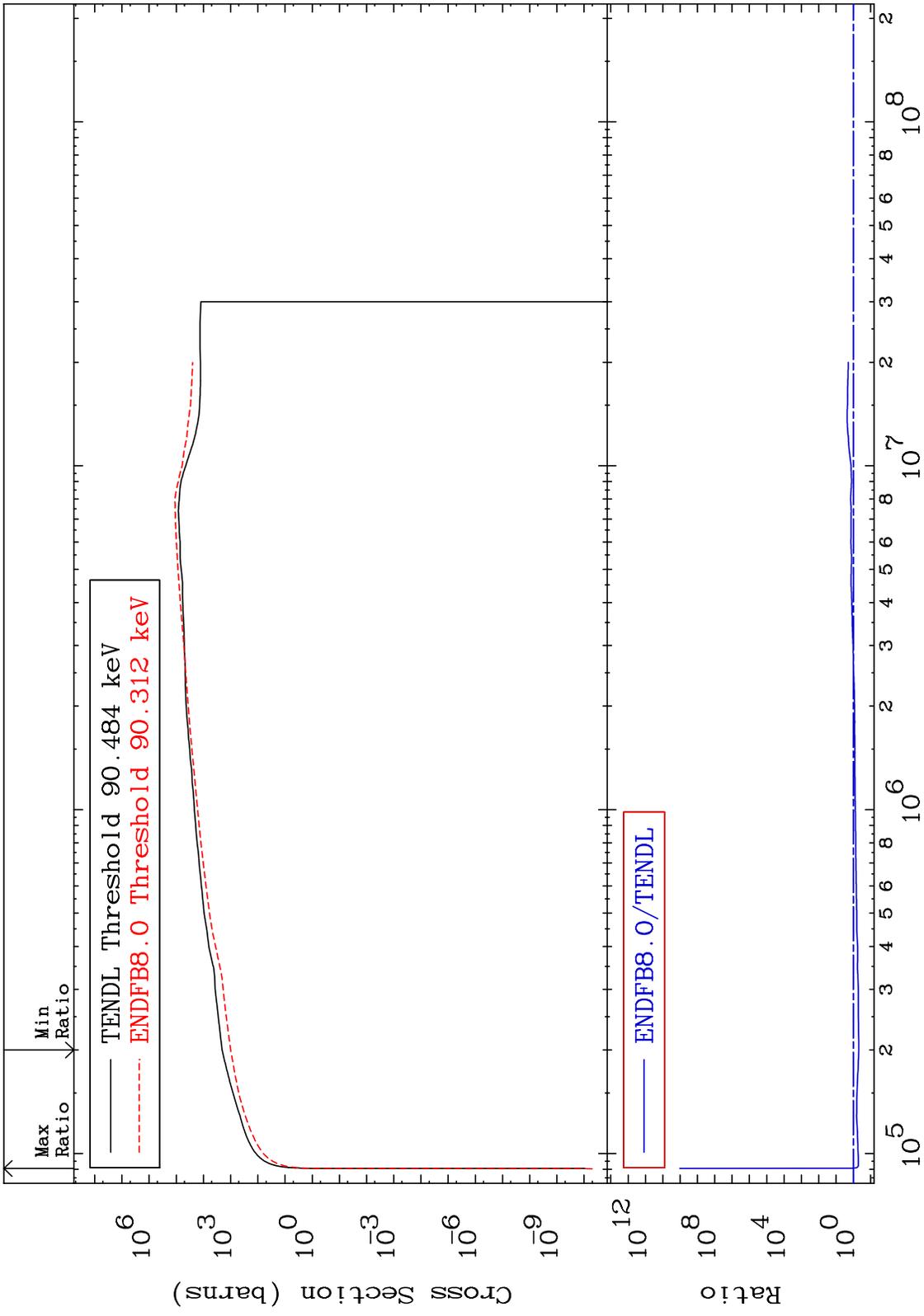


MAT 4434

Dpa elastic (mt2)
Cross Section

44-Ru-99
-98.62 To 9999. %





MAT 4434

Dpa disappearance (mt102 -120)
Cross Section

44-Ru-99
-99.78 To 9999. %

