

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

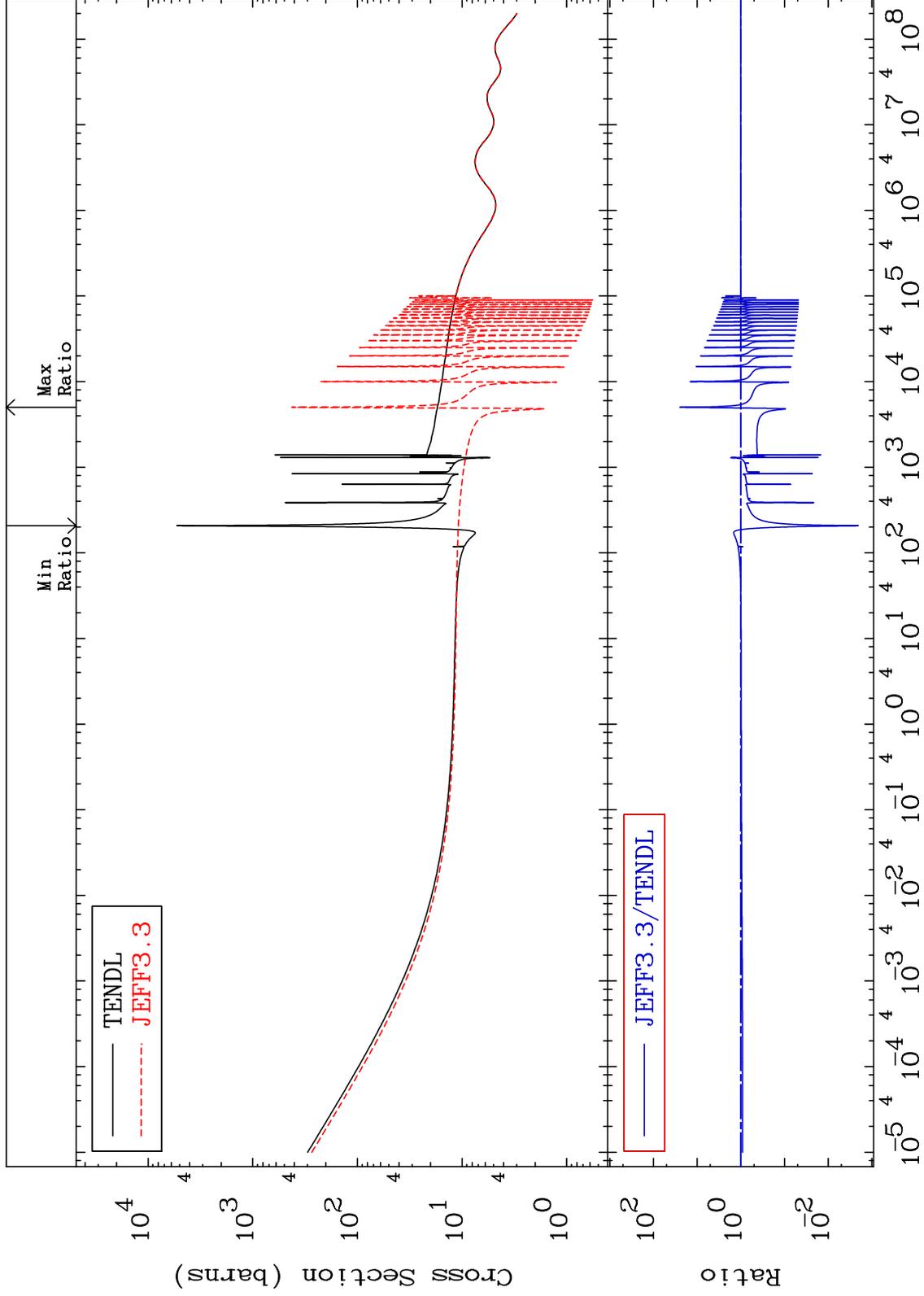
MAT 8228

Total

82-Pb-205

Cross Section

-99.80 To 2375. %



1

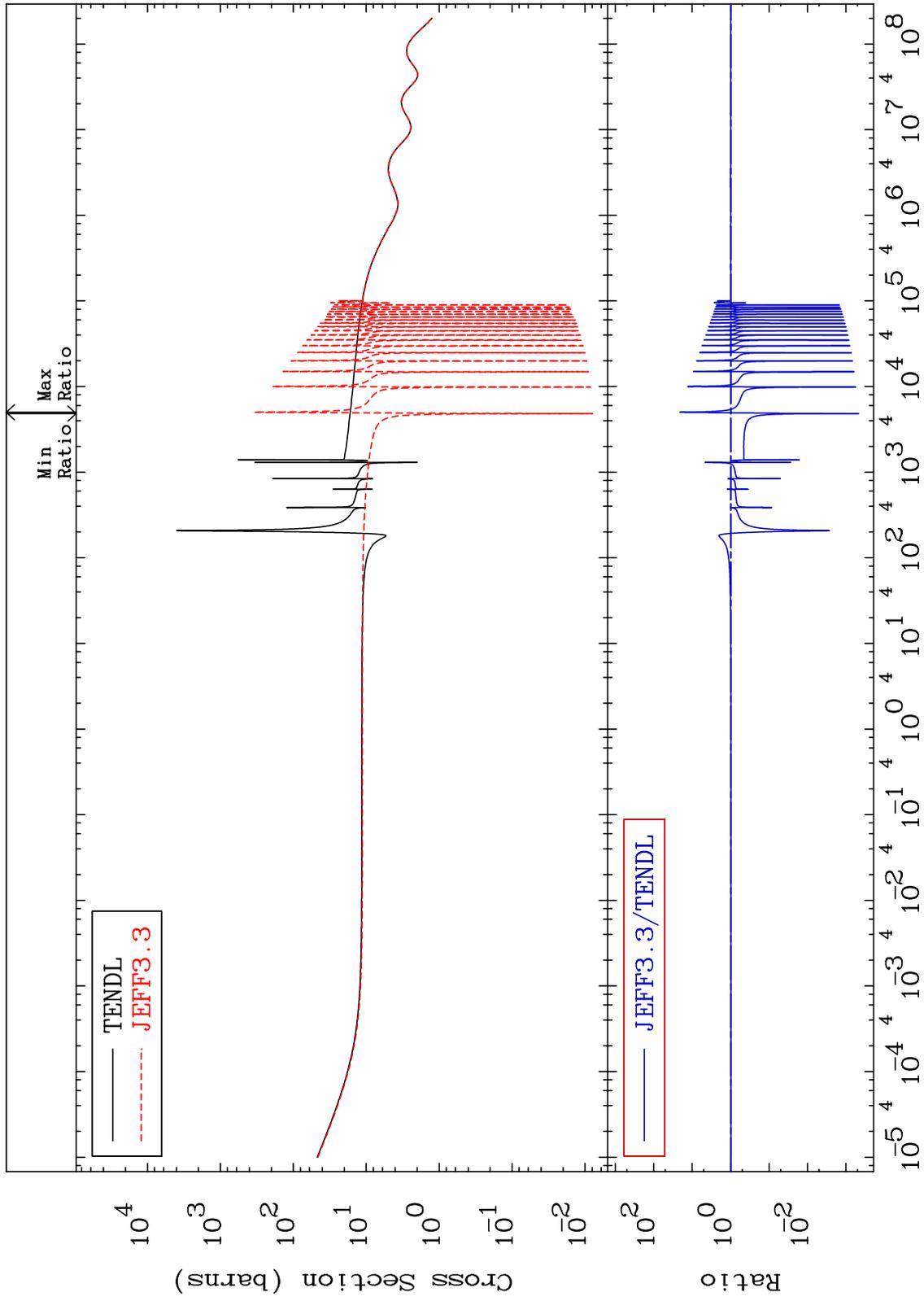
Incident Energy (eV)

82-Pb-205

MAT 8228

Elastic
Cross Section

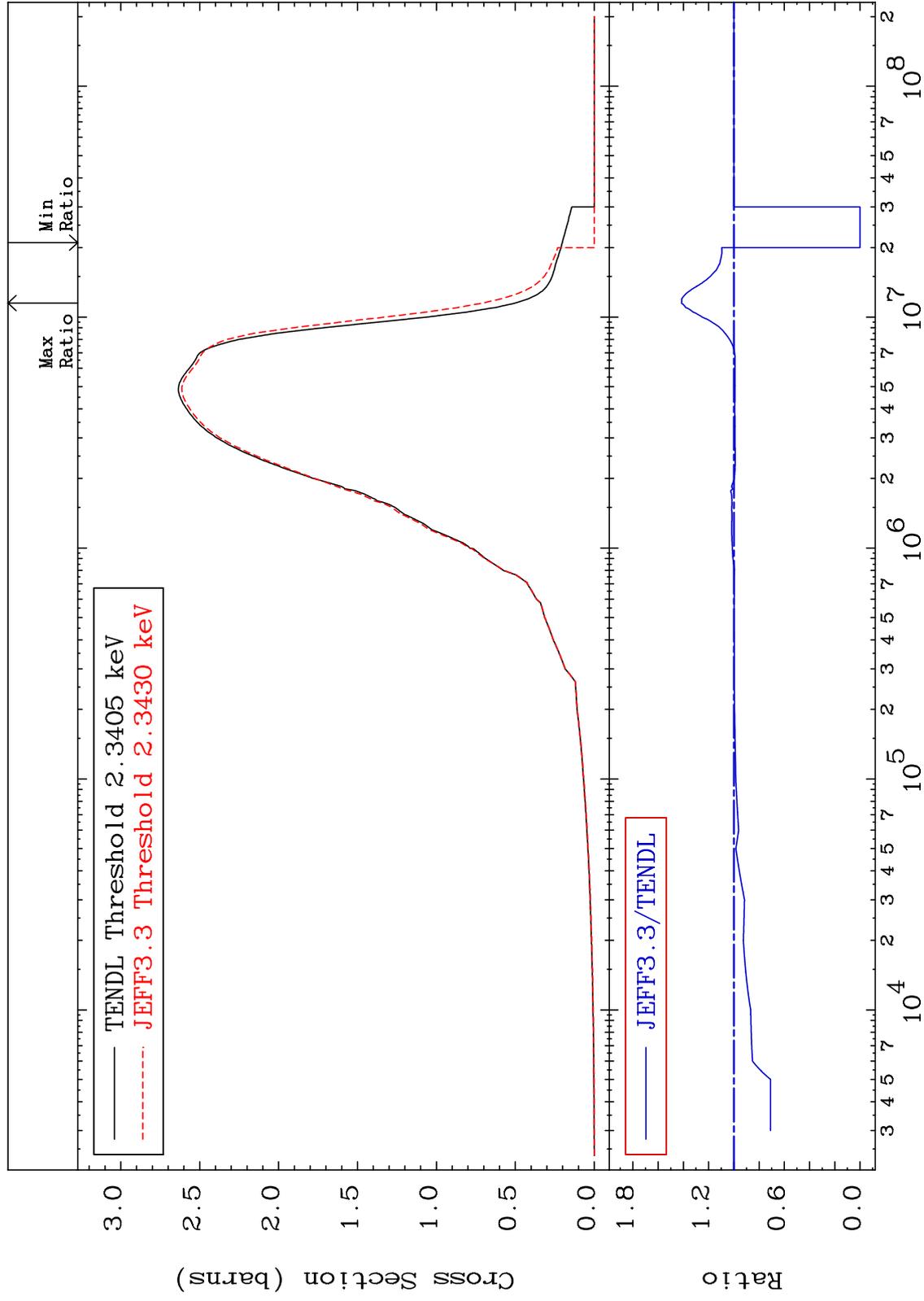
82-Pb-205
-99.95 To 1984. %



MAT 8228

Inelastic
Cross Section

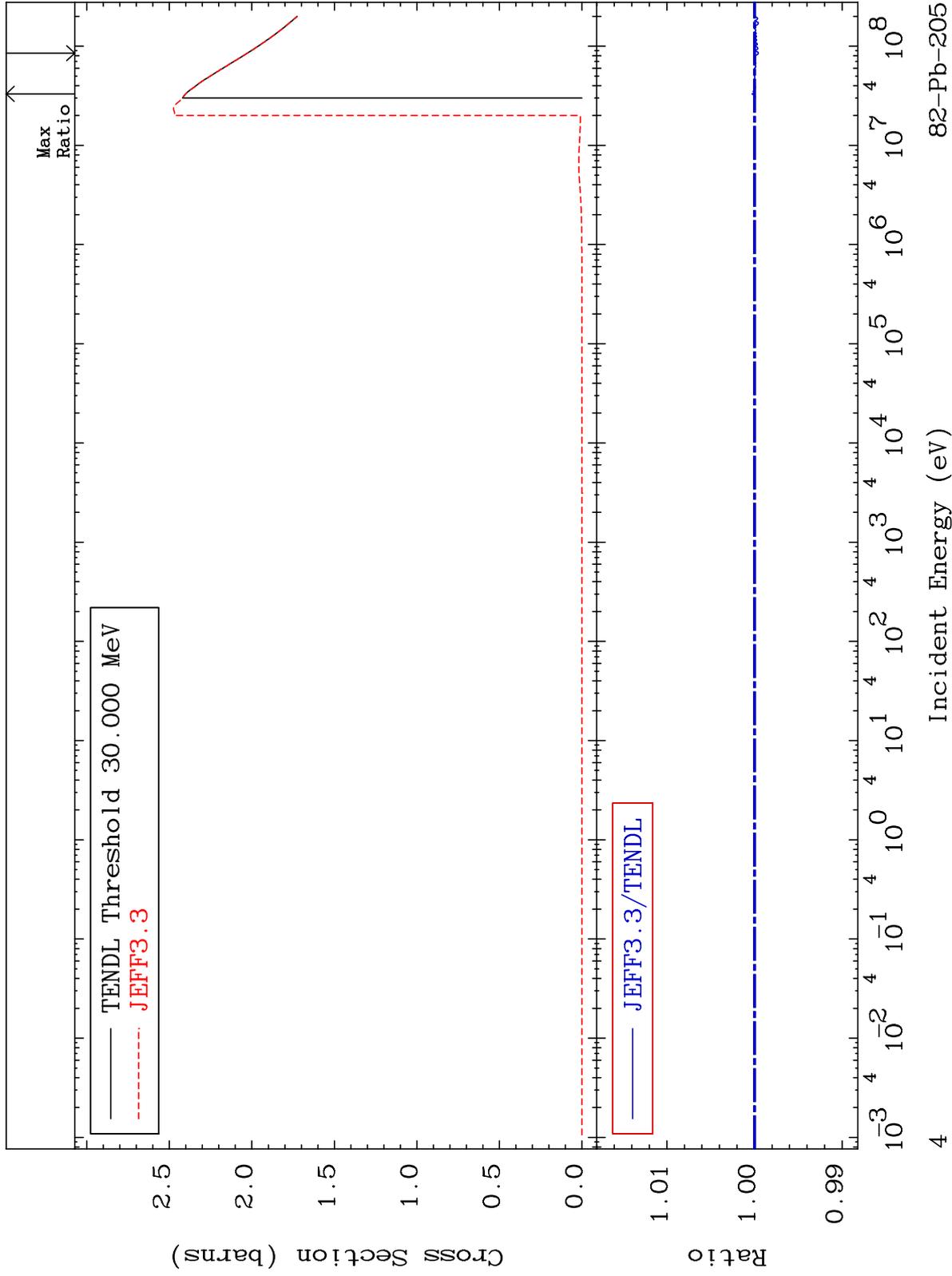
82-Pb-205
-100.0 To 41.42 %



MAT 8228

(n, remainder)
Cross Section

82-Pb-205
-0.045 To 0.028 %



82-Pb-205

Incident Energy (eV)

4

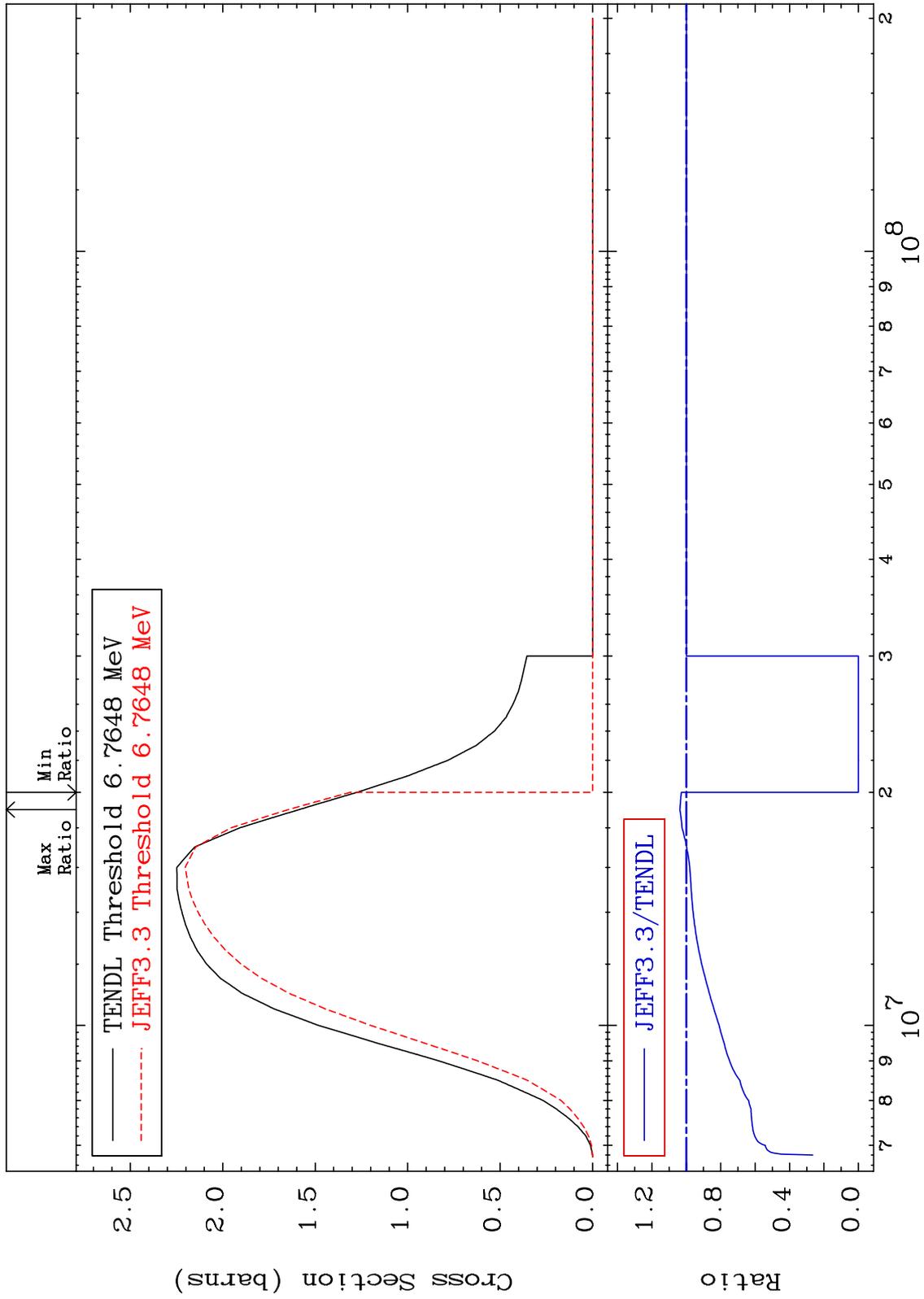
MAT 8228

(n, 2n)

82-Pb-205

Cross Section

-100.0 To 3.702 %



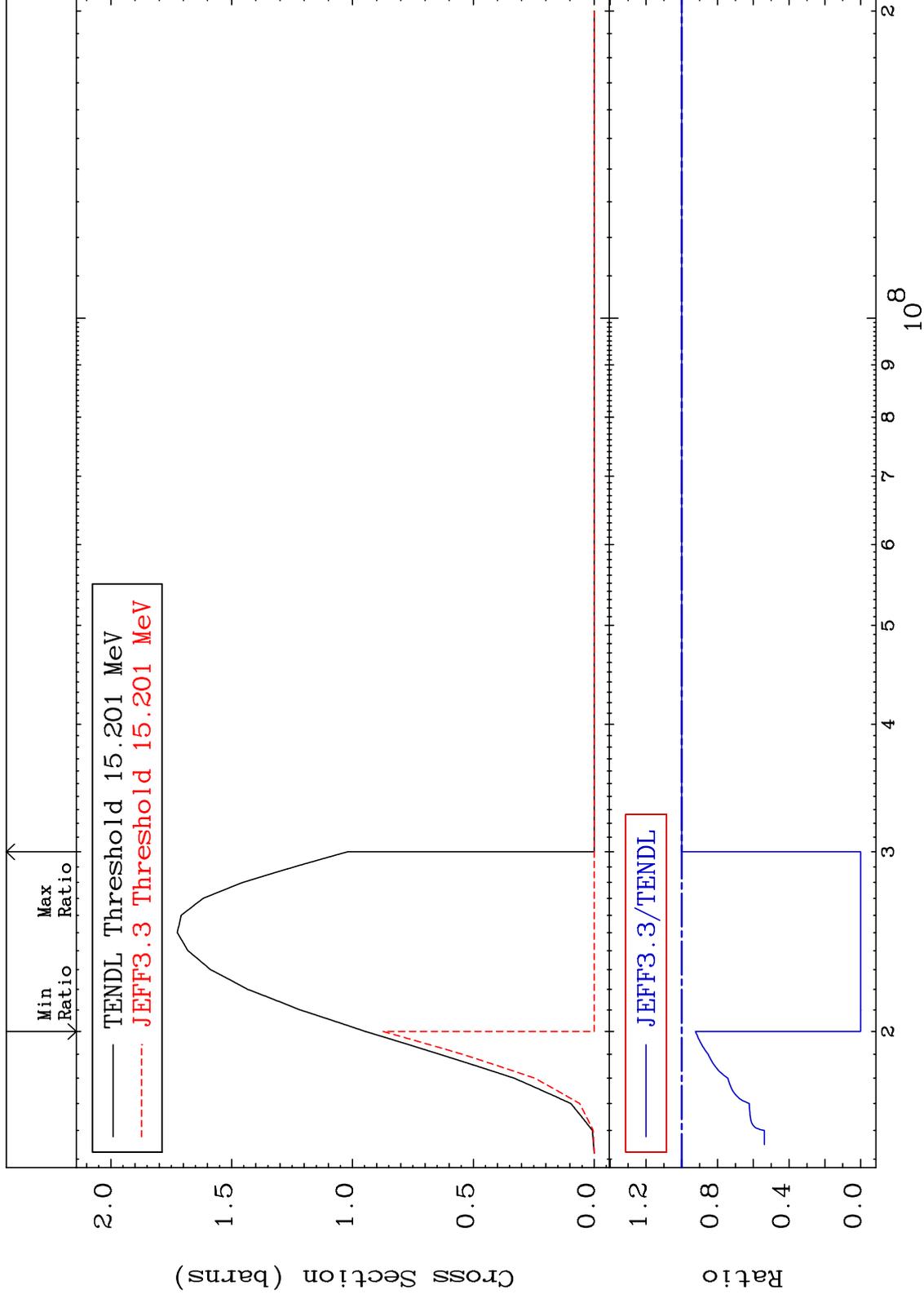
MAT 8228

(n, 3n)

82-Pb-205

Cross Section

-100.0 To 0.000 %



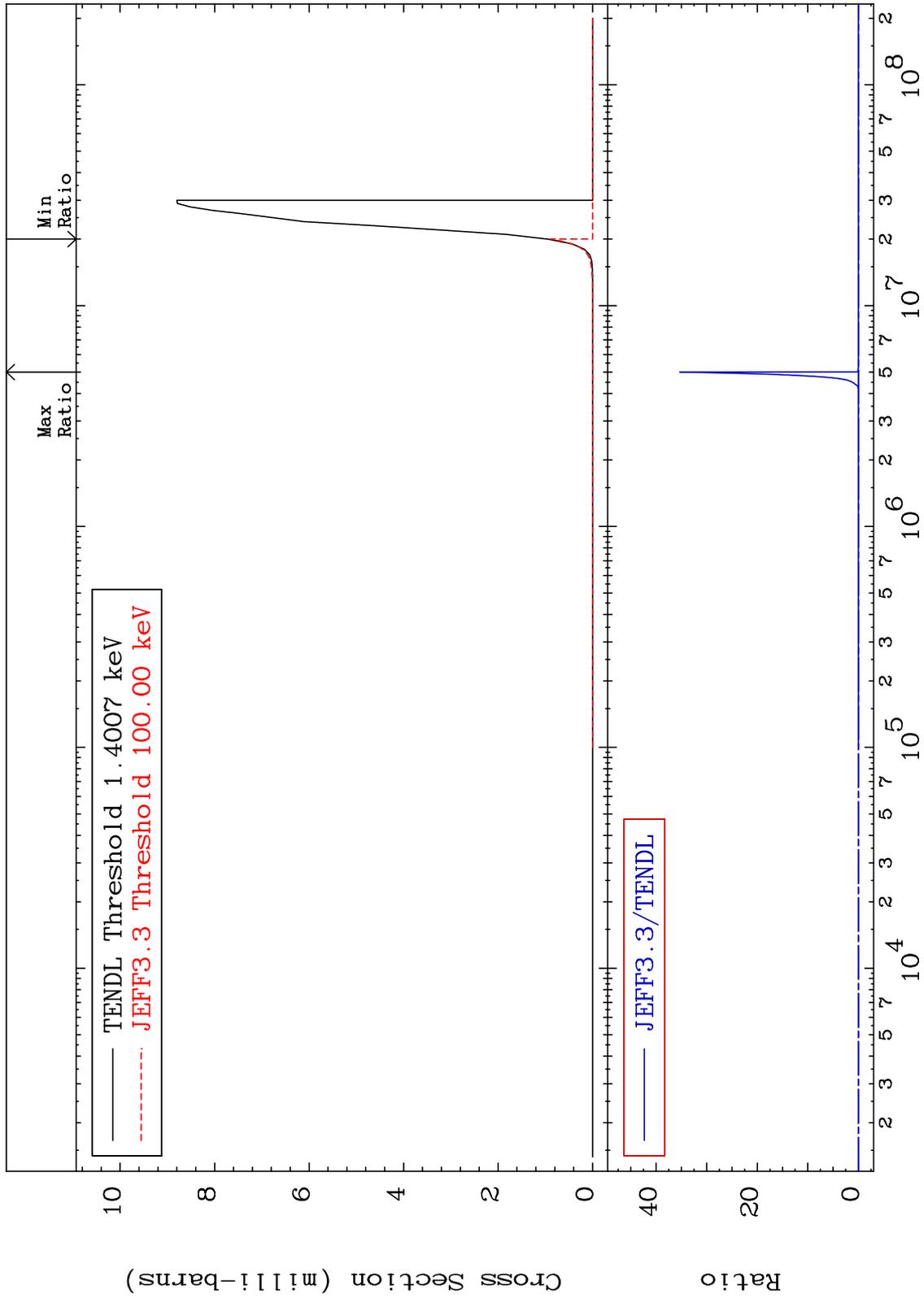
MAT 8228

(n,n') α

82-Pb-205

Cross Section

-100.0 To 9999. %



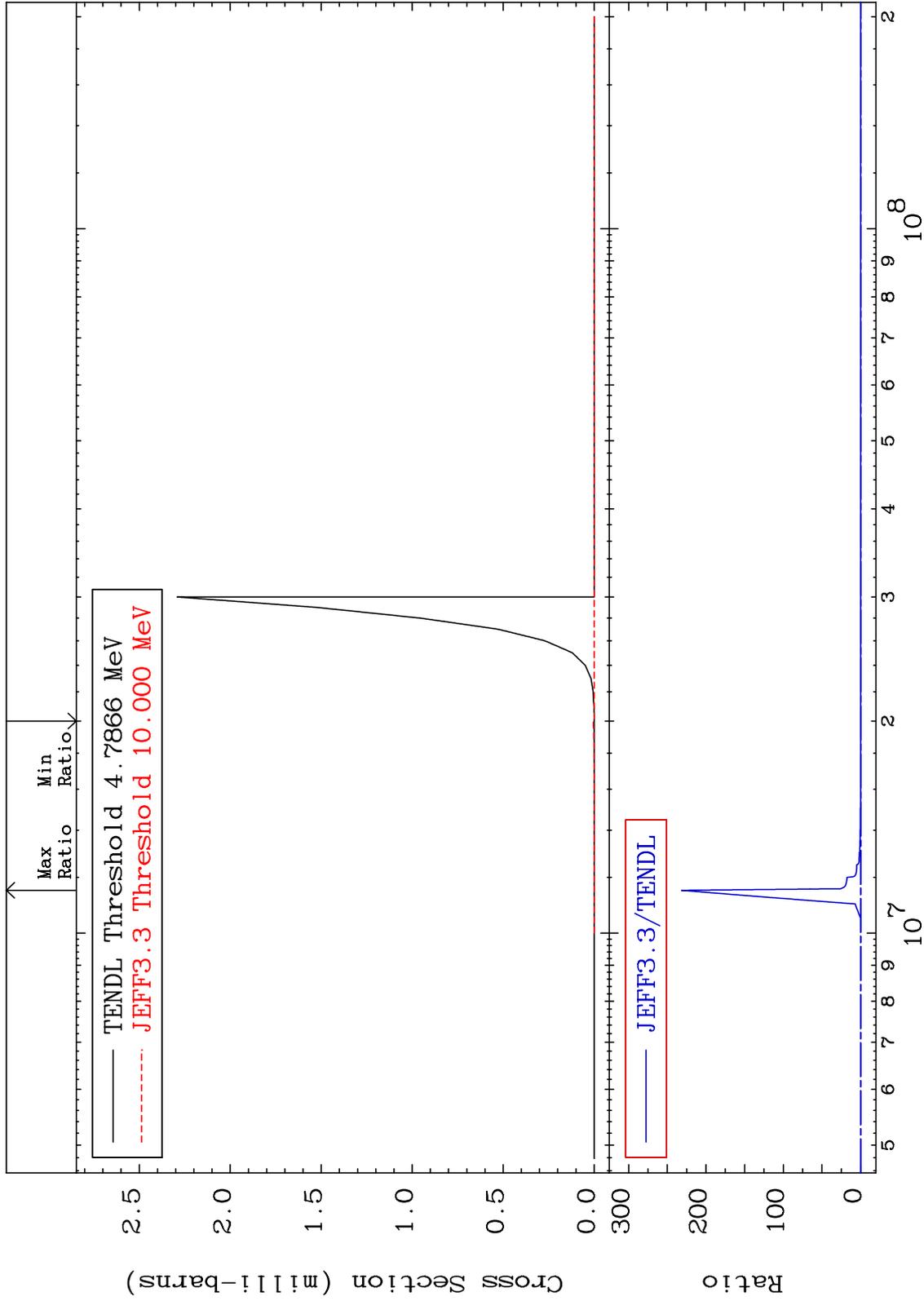
MAT 8228

(n,2n) α

82-Pb-205

-100.0 To 9999. %

Cross Section



8

Incident Energy (eV)

82-Pb-205

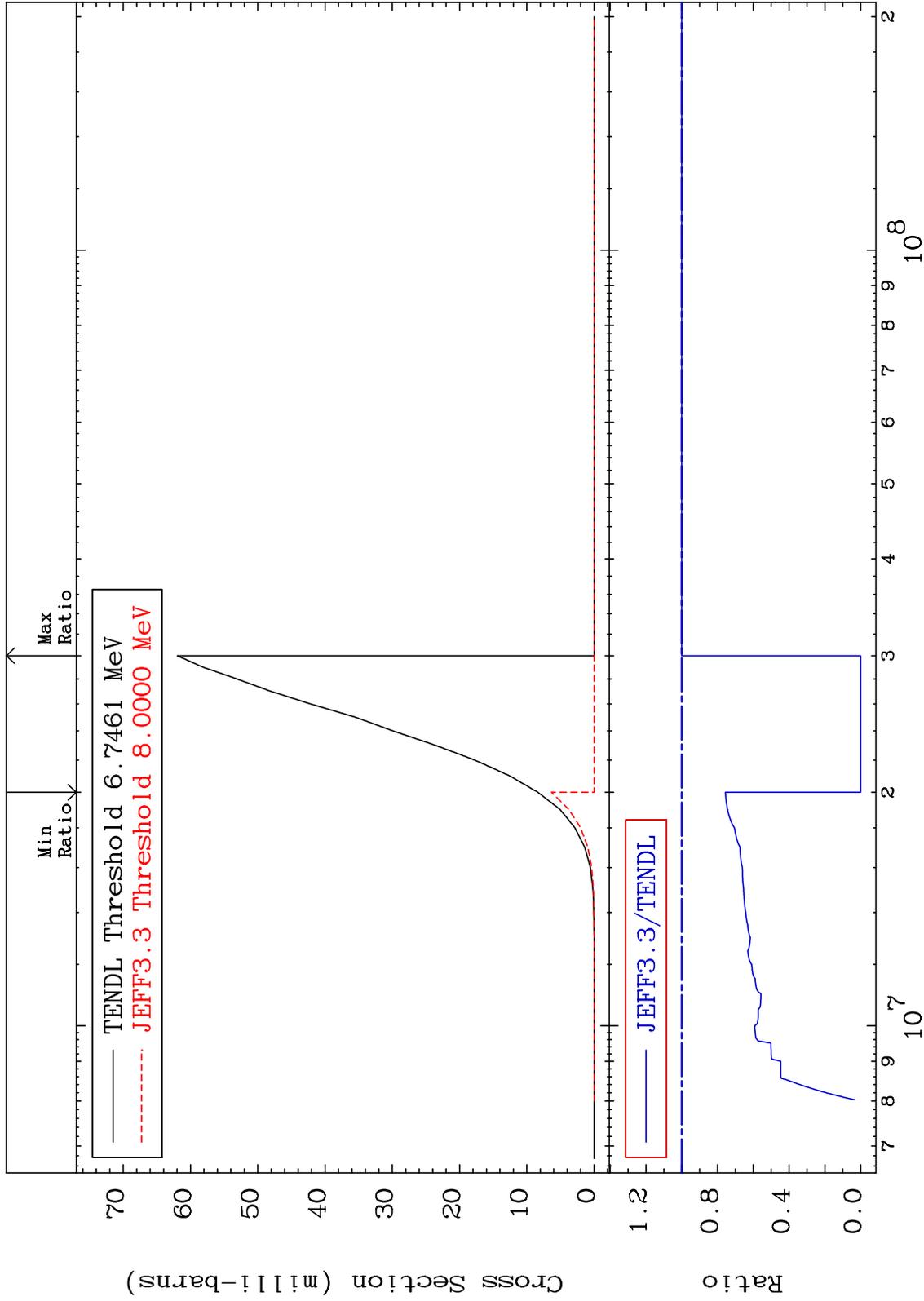
MAT 8228

(n, n') p

82-Pb-205

Cross Section

-100.0 To 0.000 %



9

Incident Energy (eV)

82-Pb-205

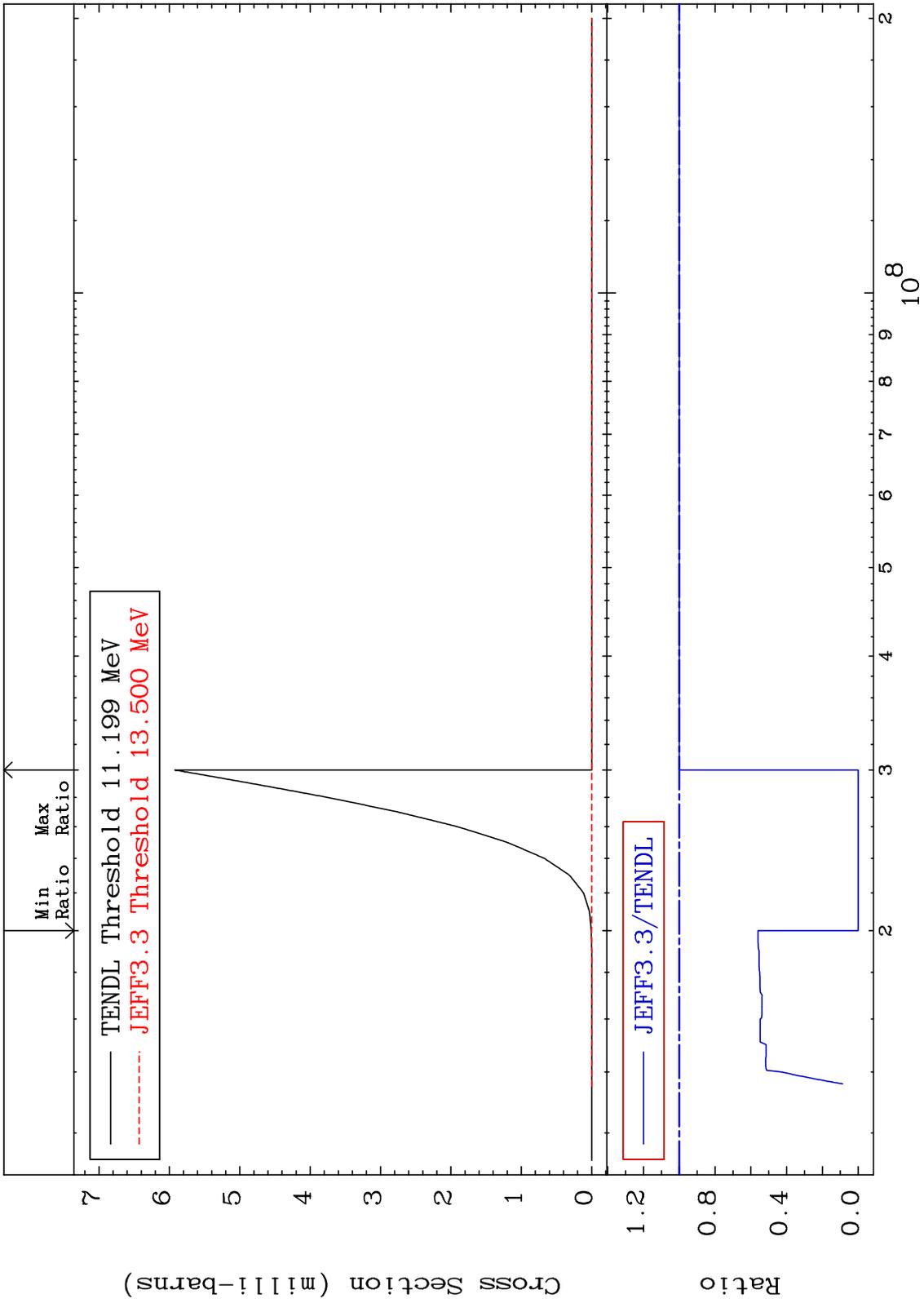
MAT 8228

(n,n') d

82-Pb-205

Cross Section

-100.0 To 0.000 %



10

Incident Energy (eV)

82-Pb-205

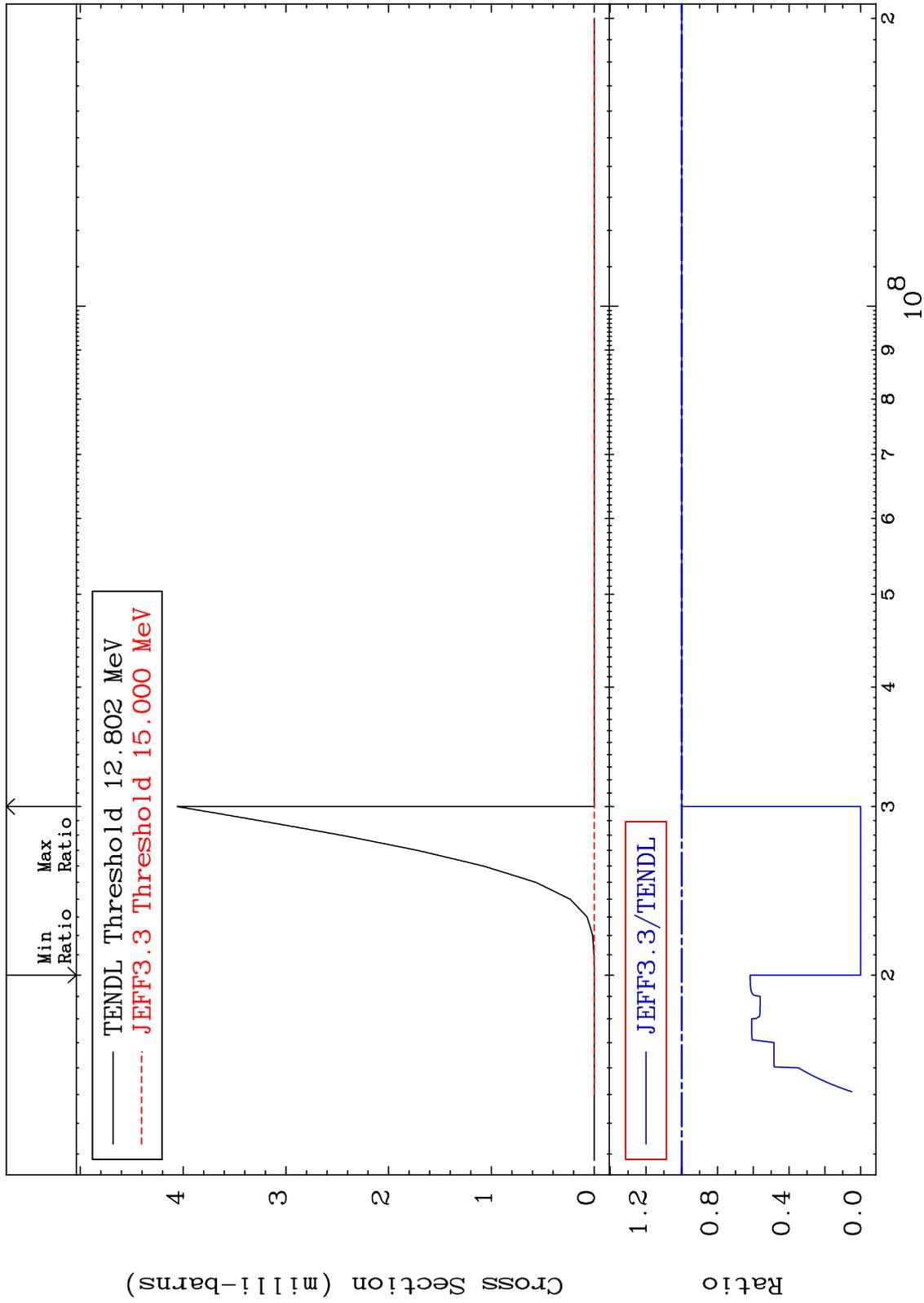
MAT 8228

(n, n') t

82-Pb-205

Cross Section

-100.0 To 0.000 %



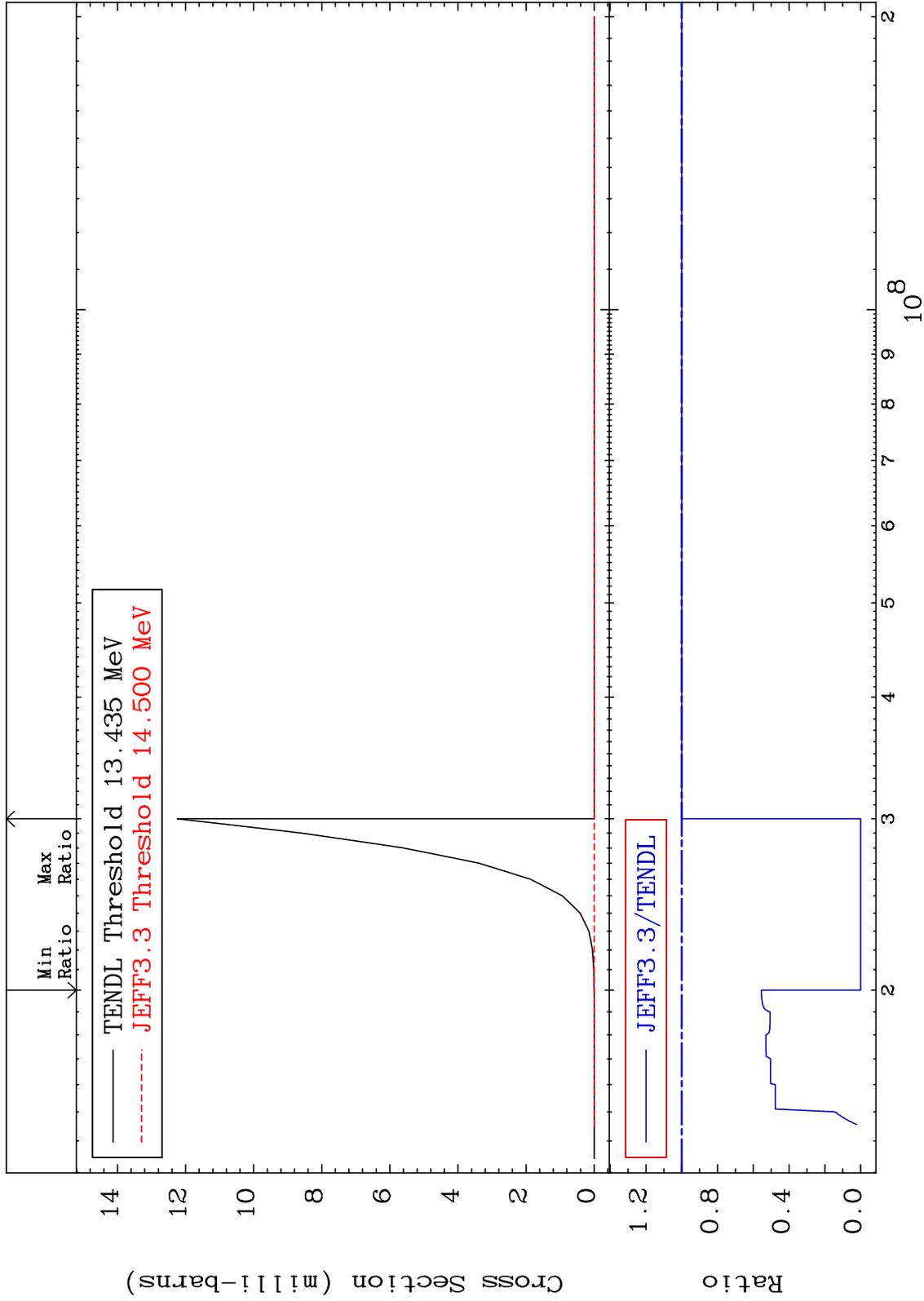
MAT 8228

(n,2n) p

82-Pb-205

Cross Section

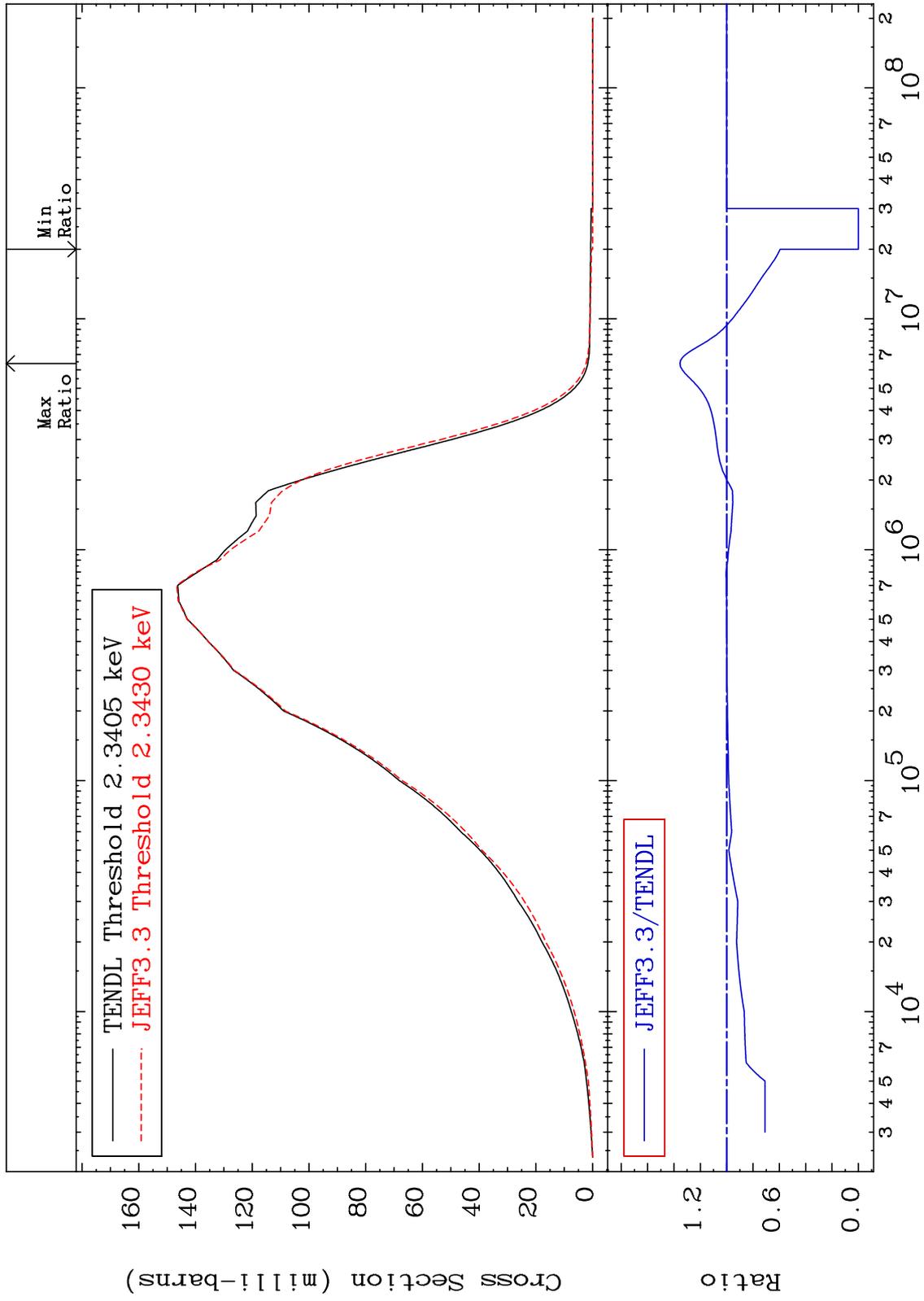
-100.0 To 0.000 %



MAT 8228

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

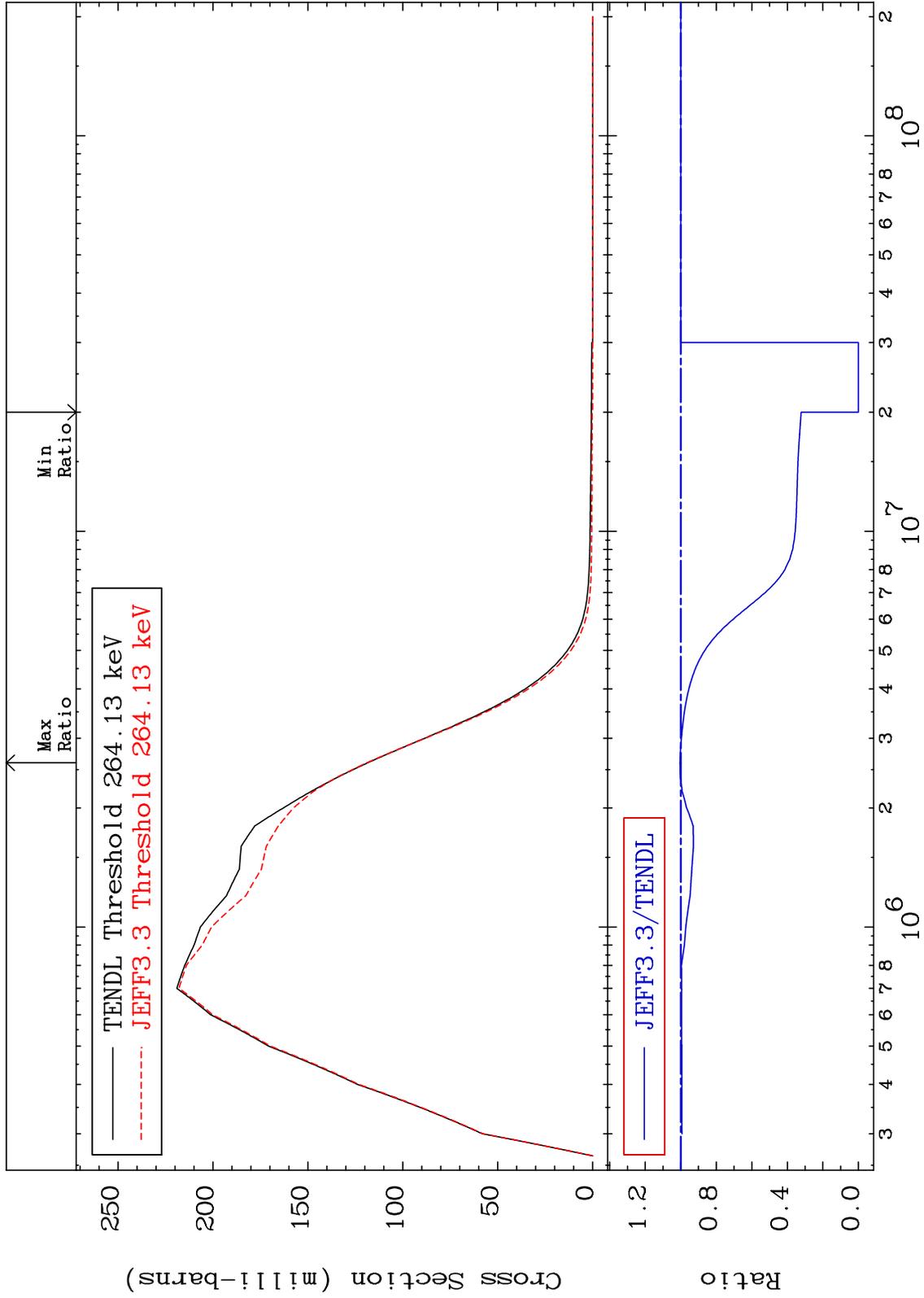
82-Pb-205
-100.0 To 35.47 %



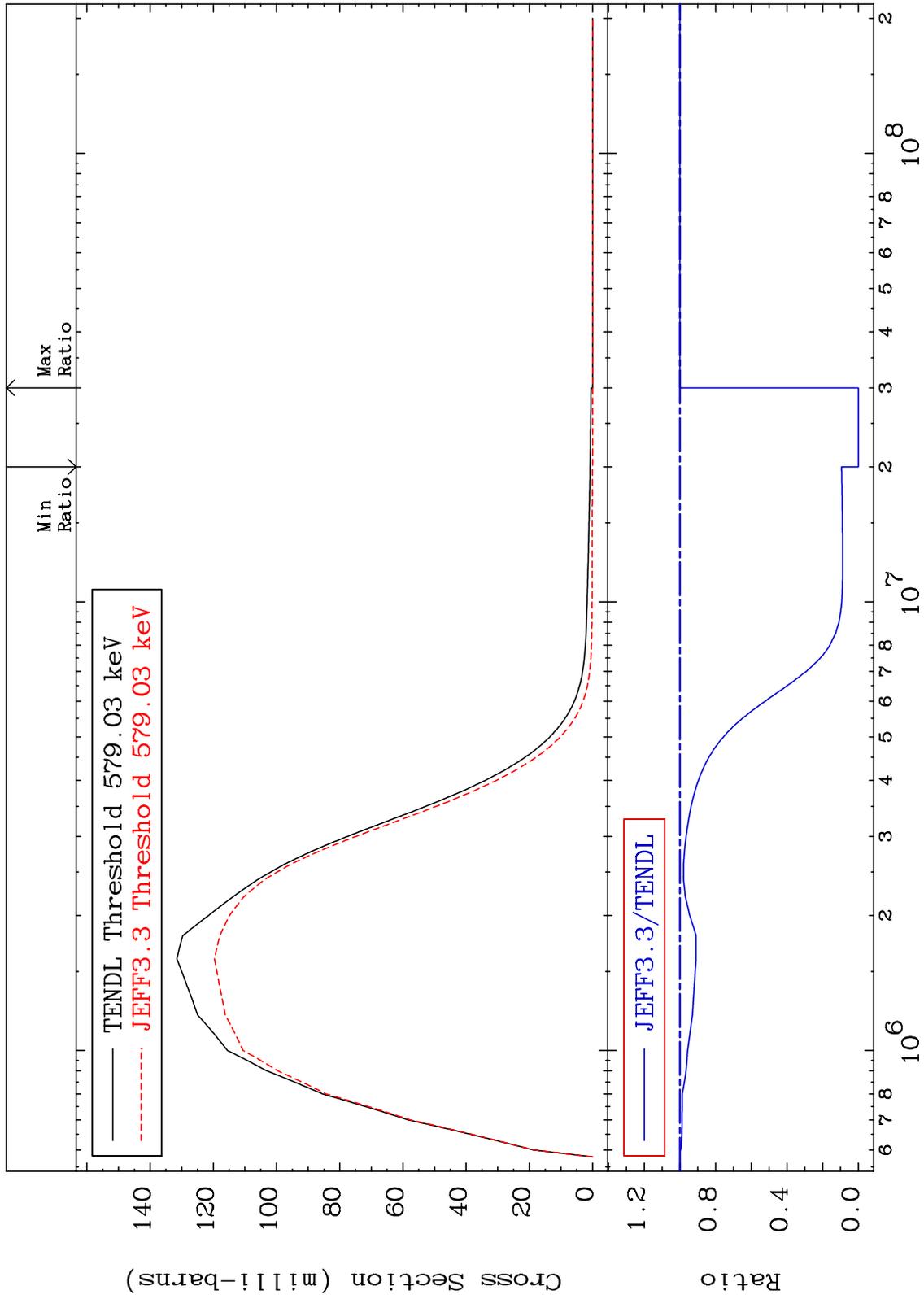
MAT 8228

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

82-Pb-205
-100.0 To 0.456 %



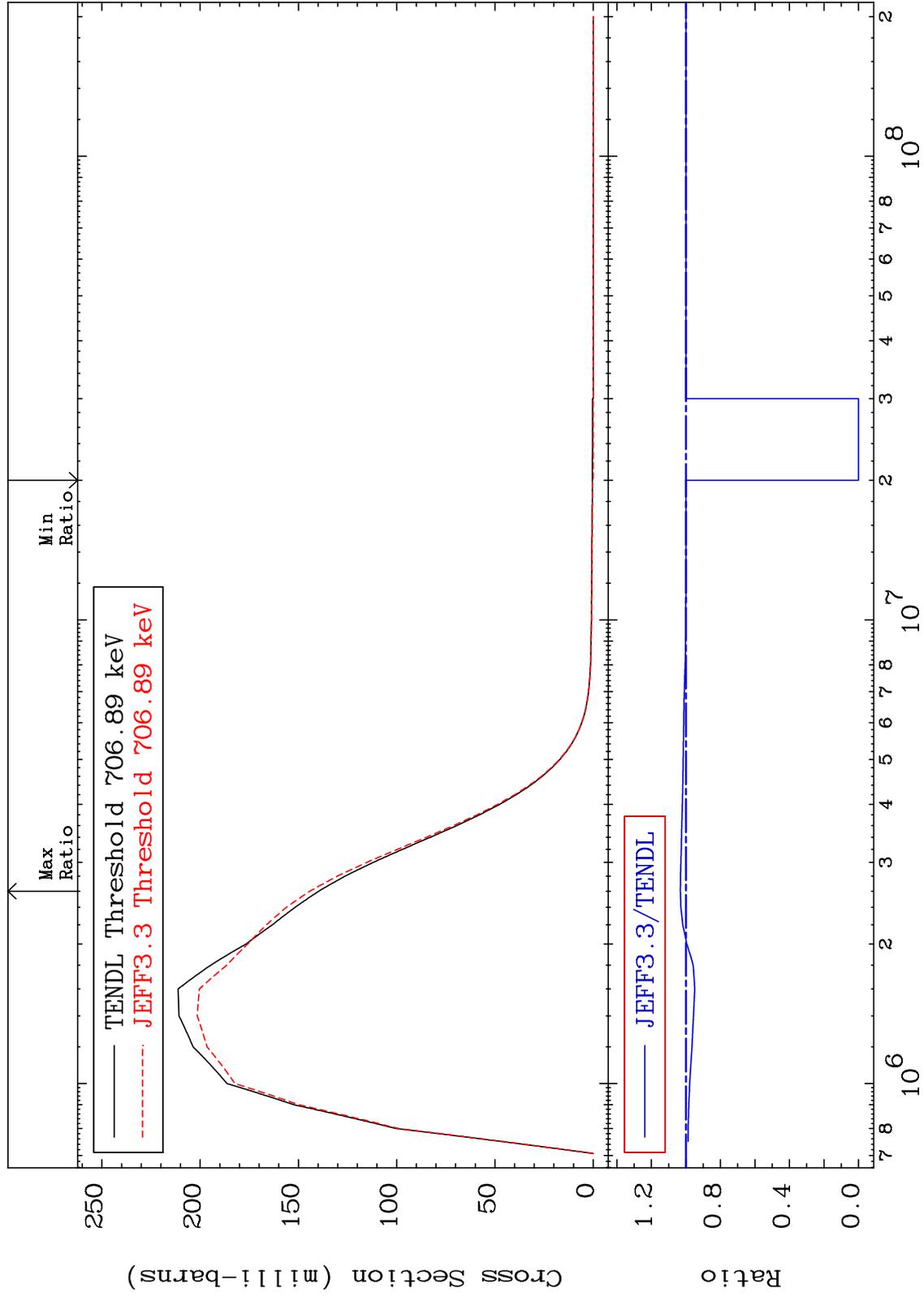
MAT 8228 MT= 53 (n, n') Level Cross Section 82-Pb-205
 -100.0 To 0.000 %



MAT 8228

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

82-Pb-205
-100.0 To 3.211 %



16

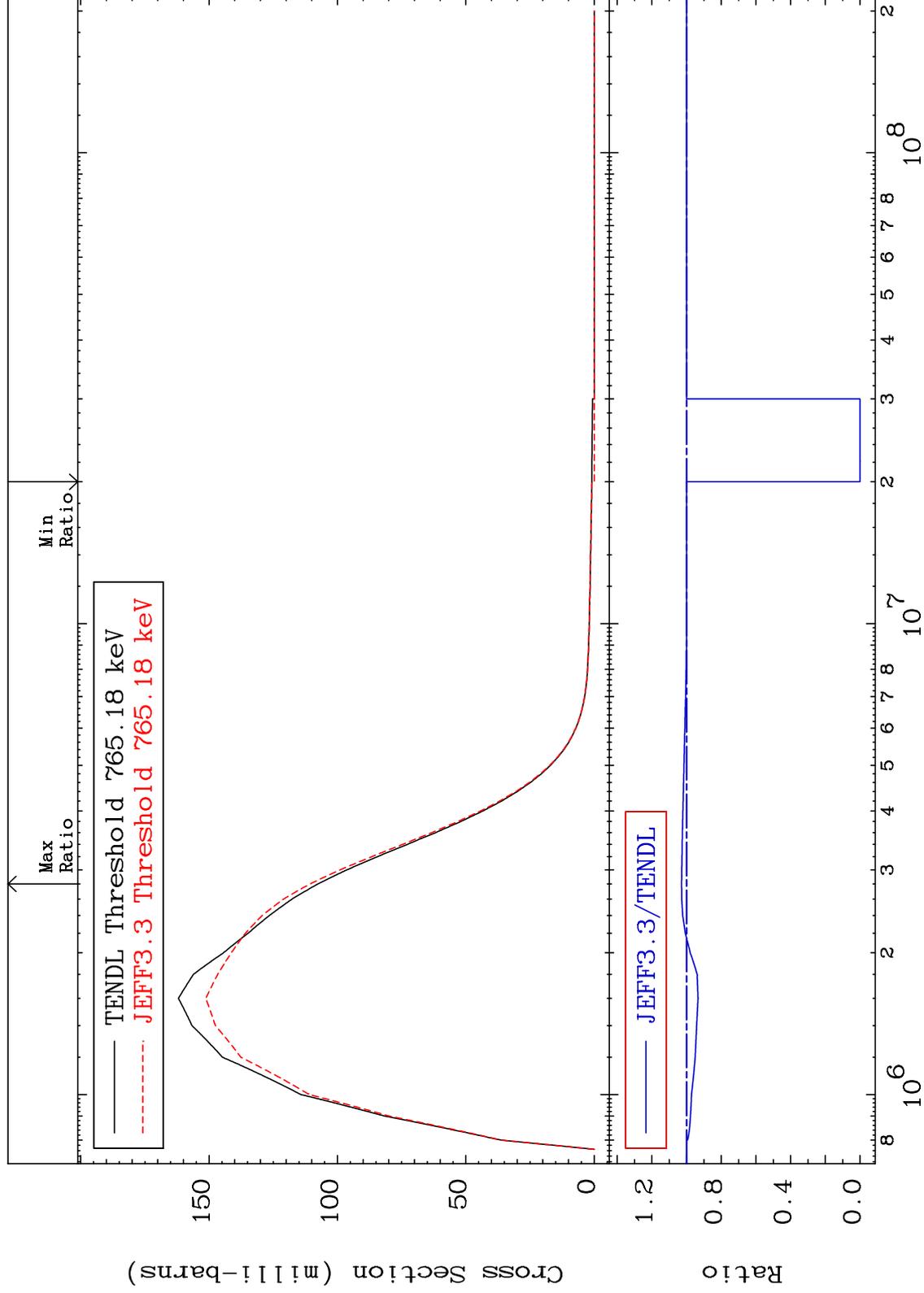
Incident Energy (eV)

82-Pb-205

MAT 8228

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

82-Pb-205
-100.0 To 2.887 %

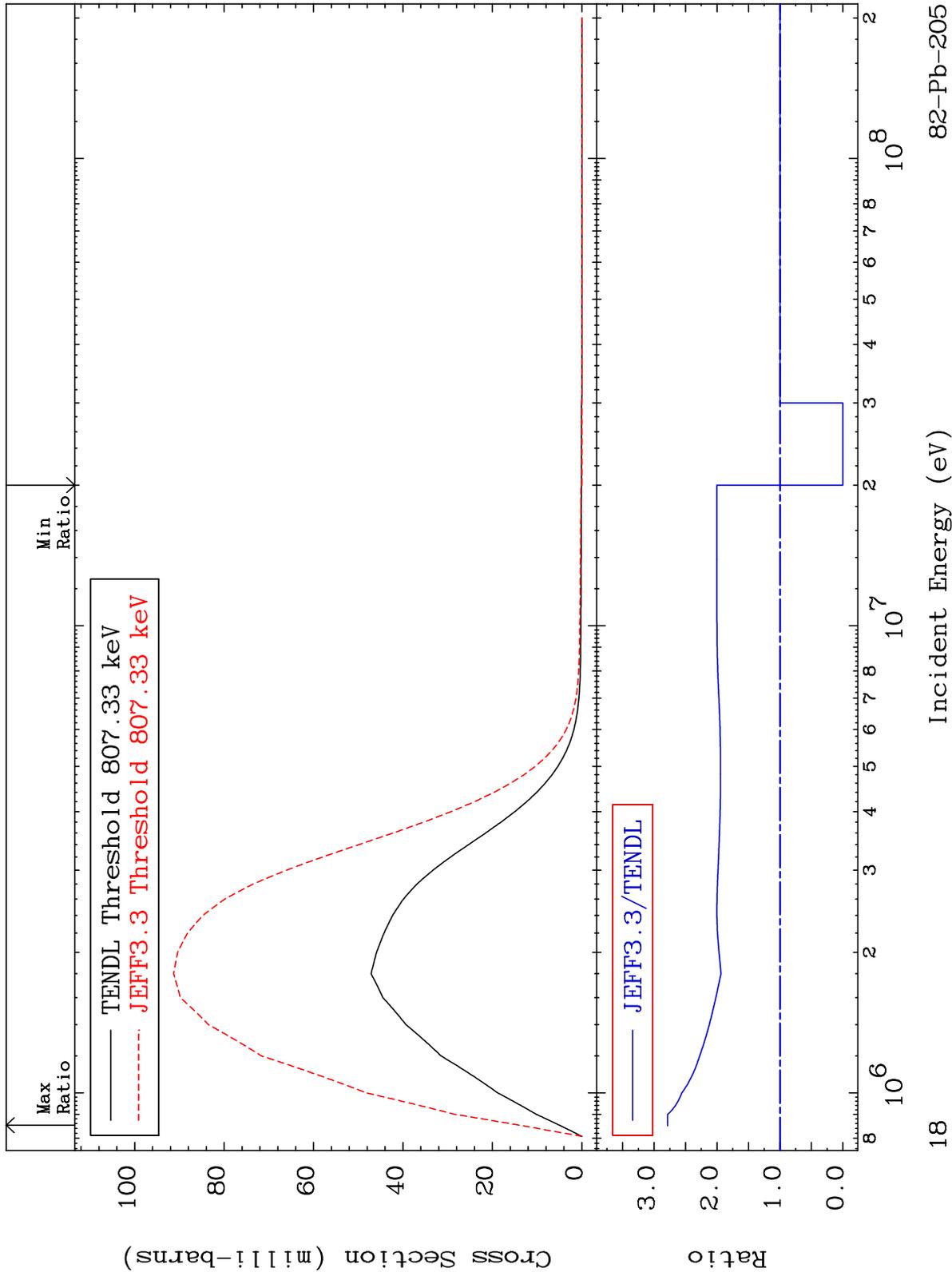


17

Incident Energy (eV)

82-Pb-205

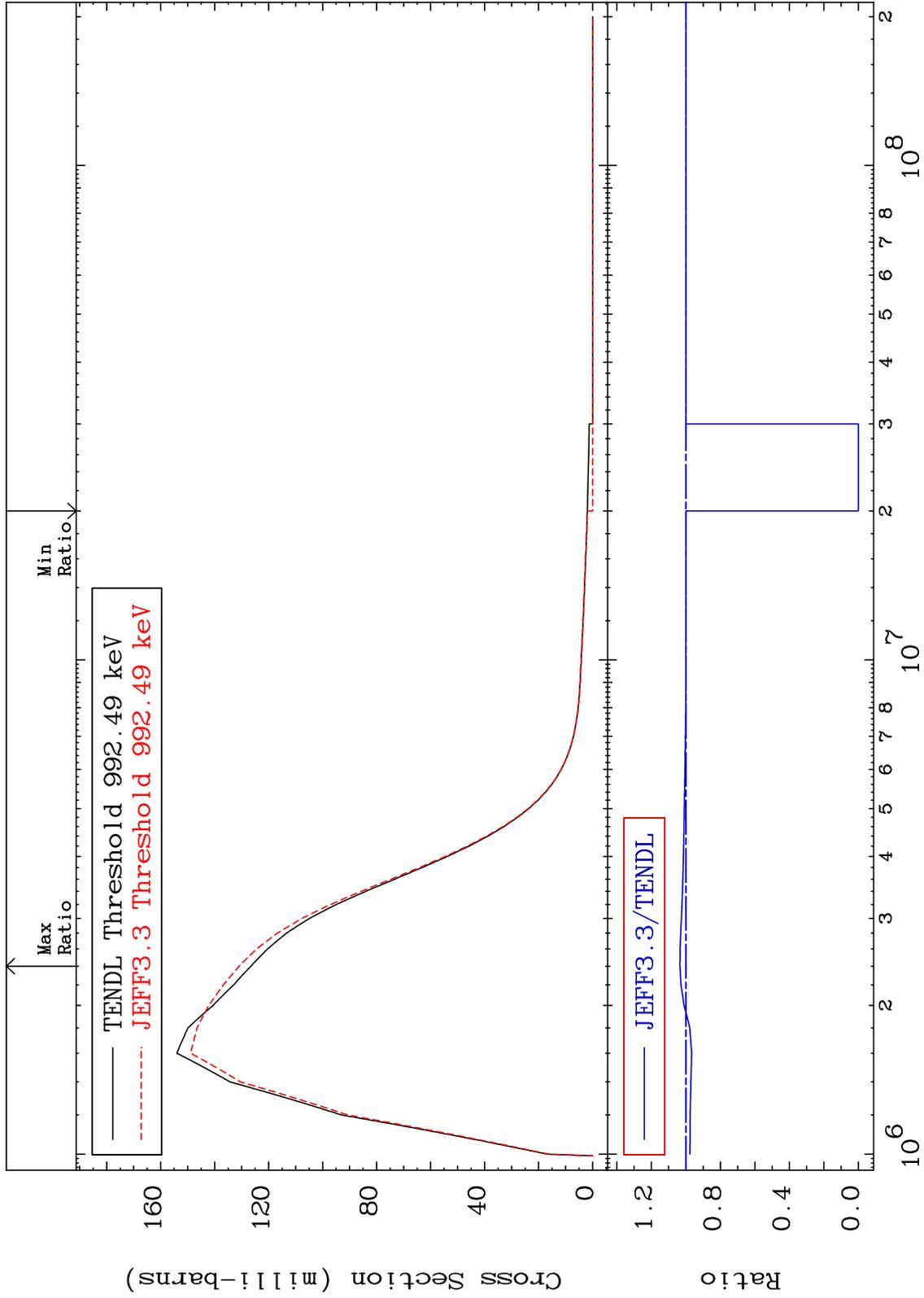
MAT 8228 MT= 56 (n,n') Level Cross Section -100.0 To 178.5 % 82-Pb-205



MAT 8228

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

82-Pb-205
-100.0 To 3.447 %



Incident Energy (eV)

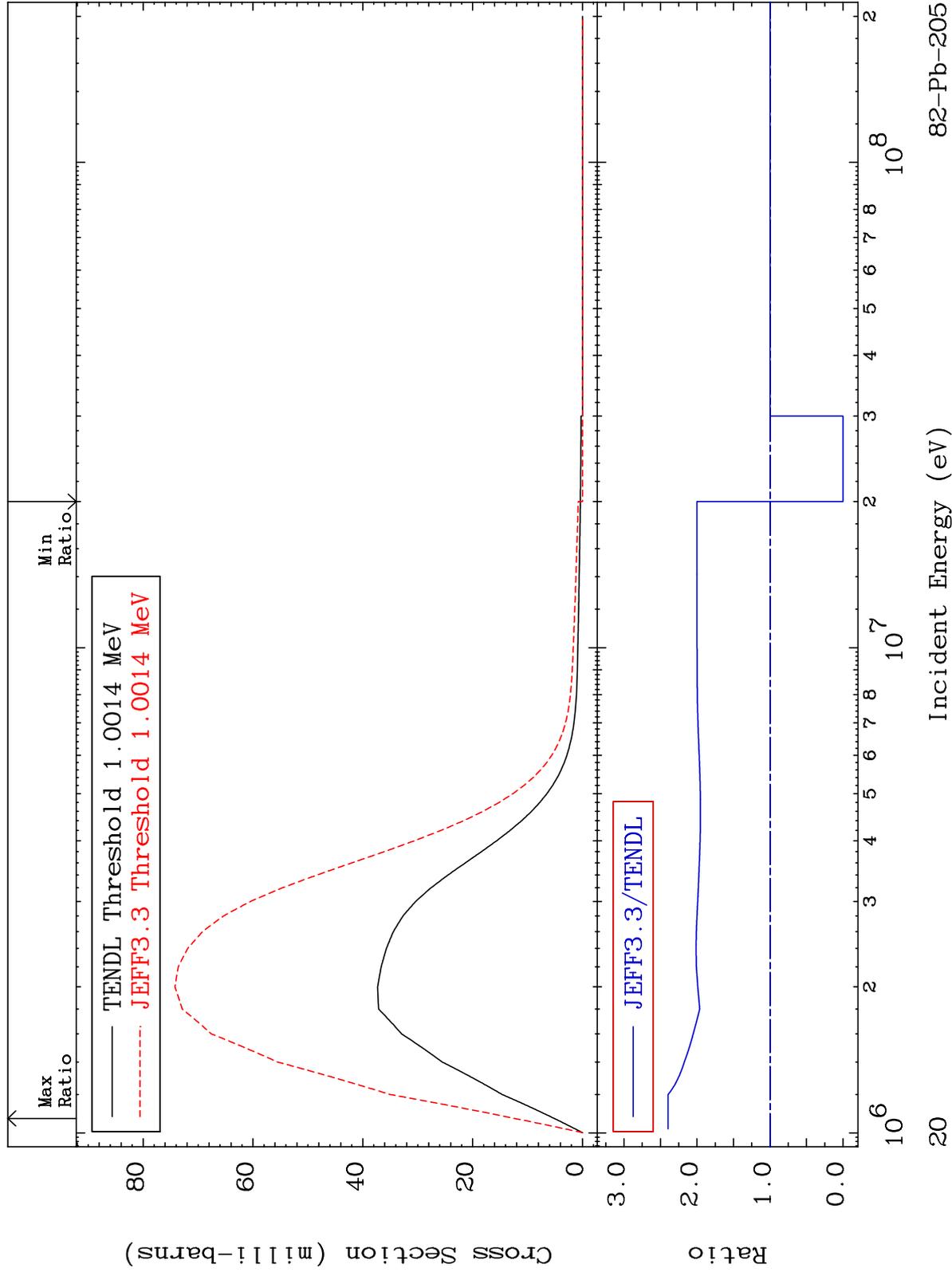
82-Pb-205

19

MAT 8228

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

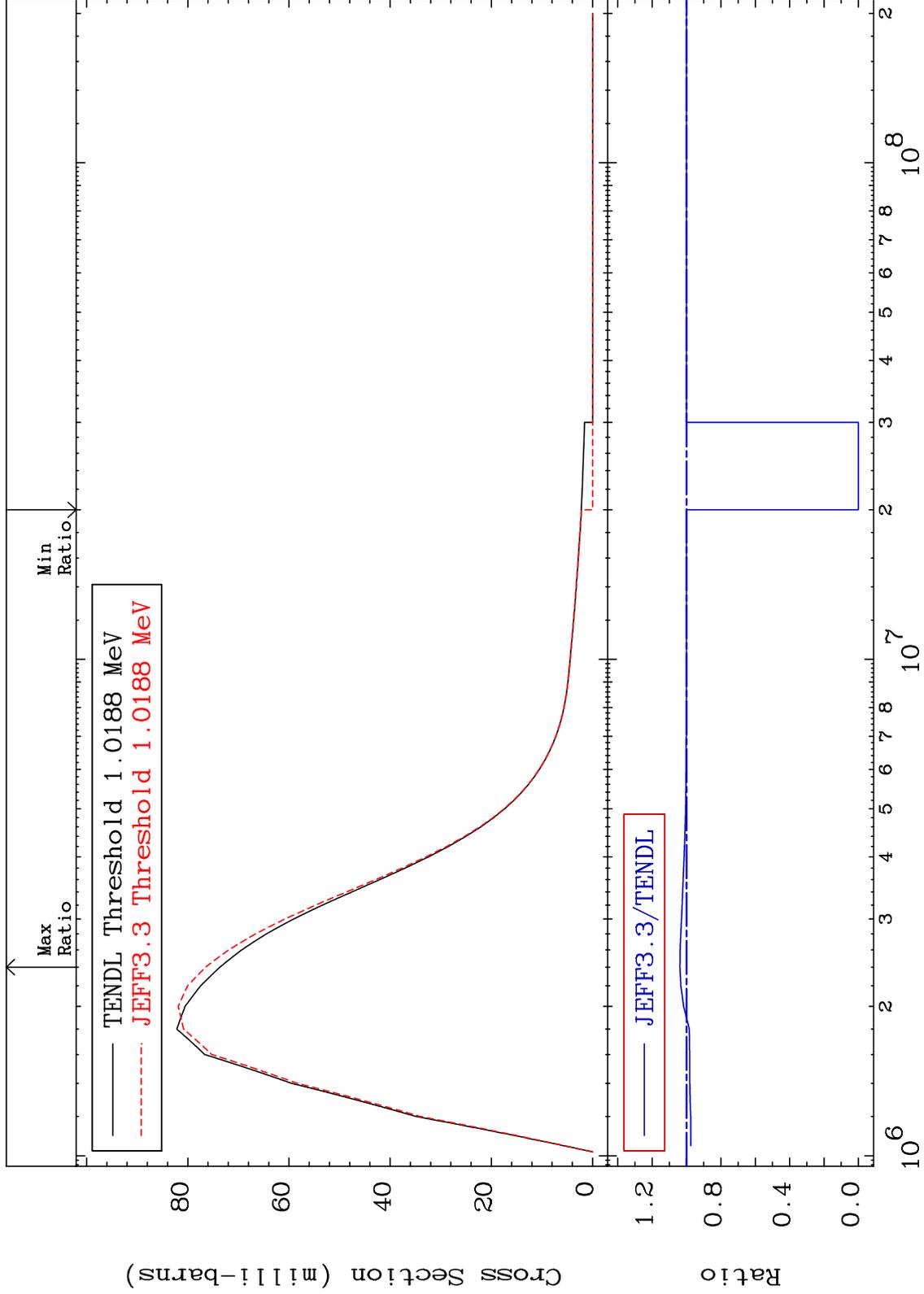
82-Pb-205
-100.0 To 139.5 %



MAT 8228

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

82-Pb-205
-100.0 To 3.824 %



21

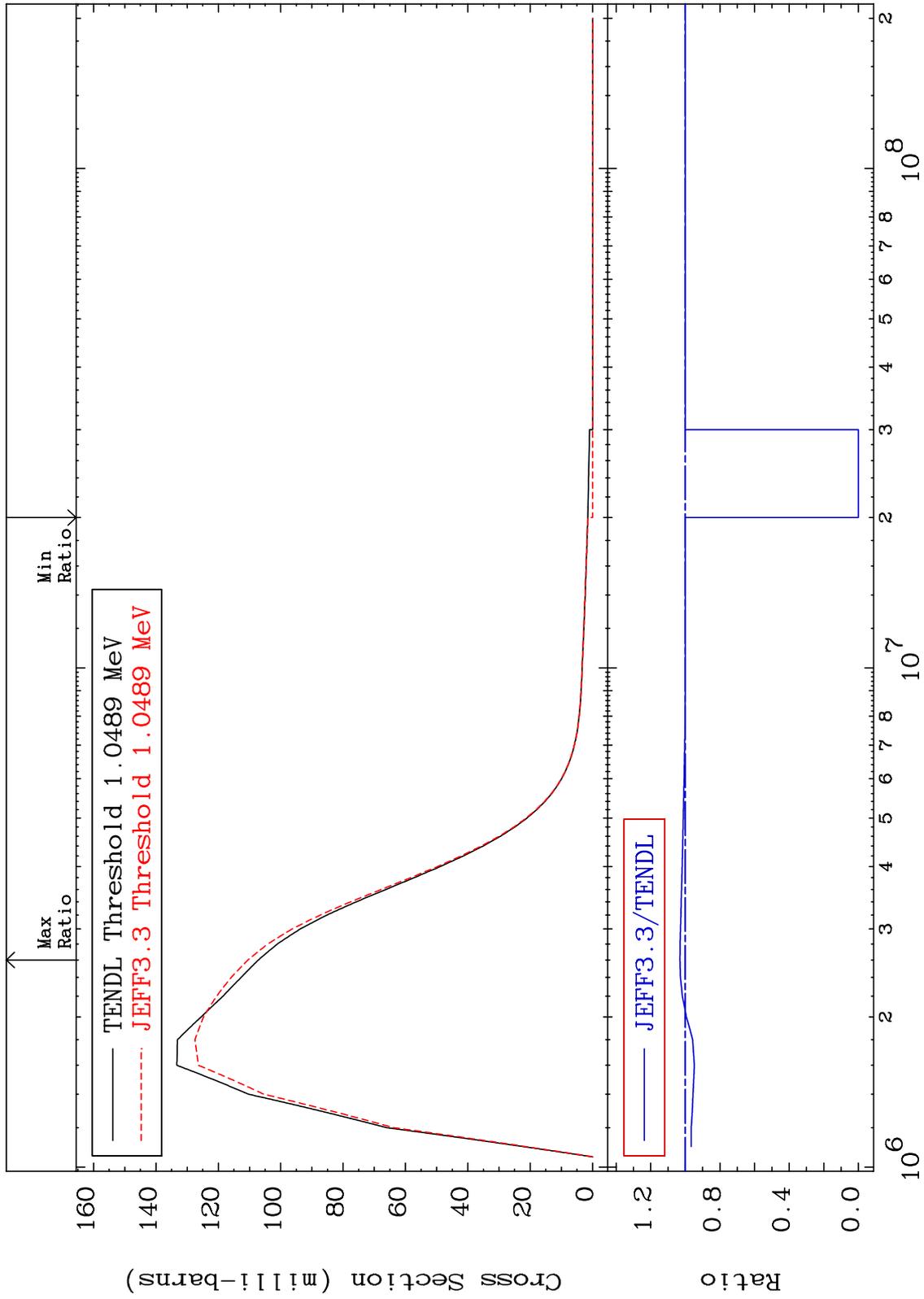
Incident Energy (eV)

82-Pb-205

MAT 8228

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

82-Pb-205
-100.0 To 3.114 %



22

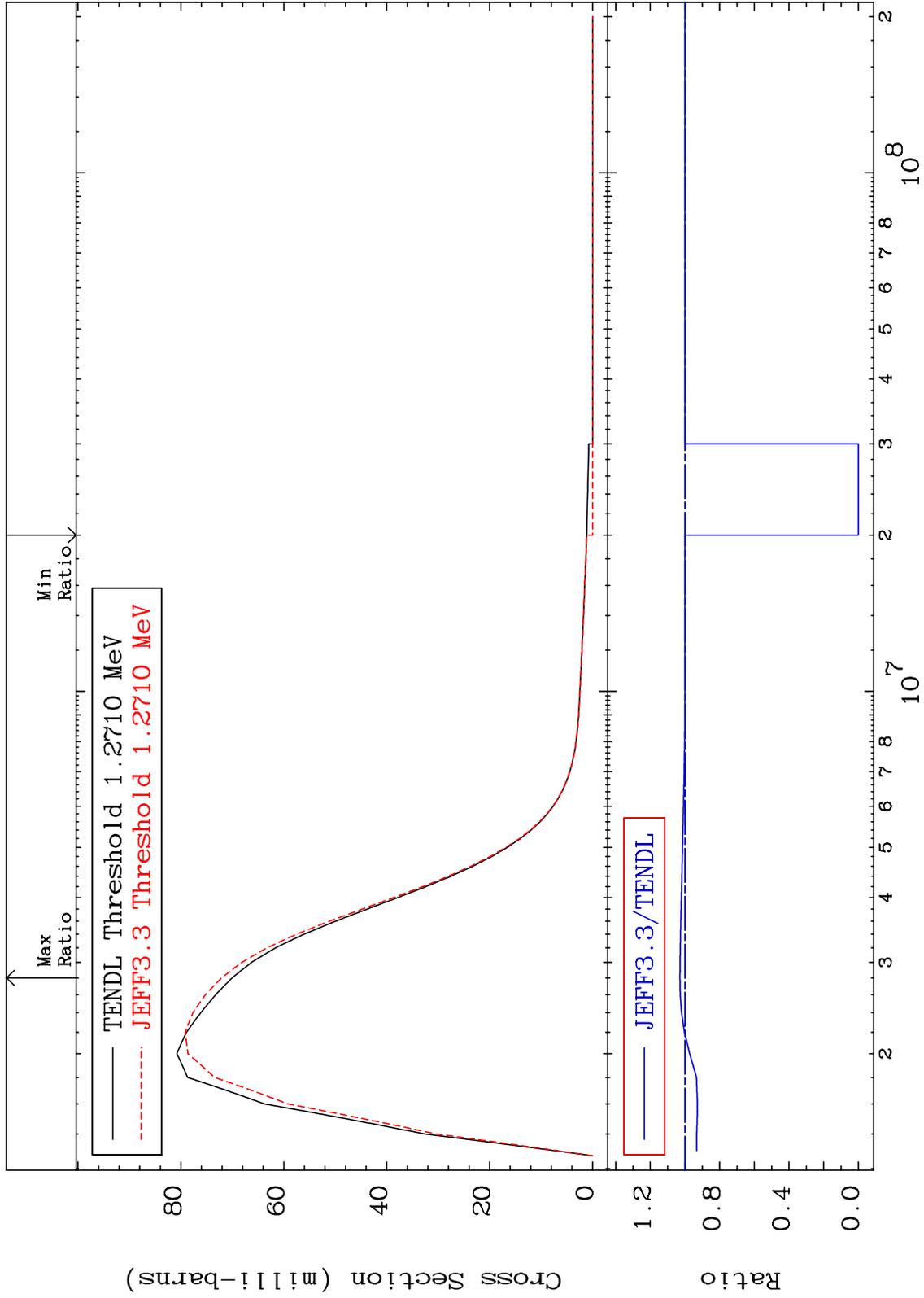
Incident Energy (eV)

82-Pb-205

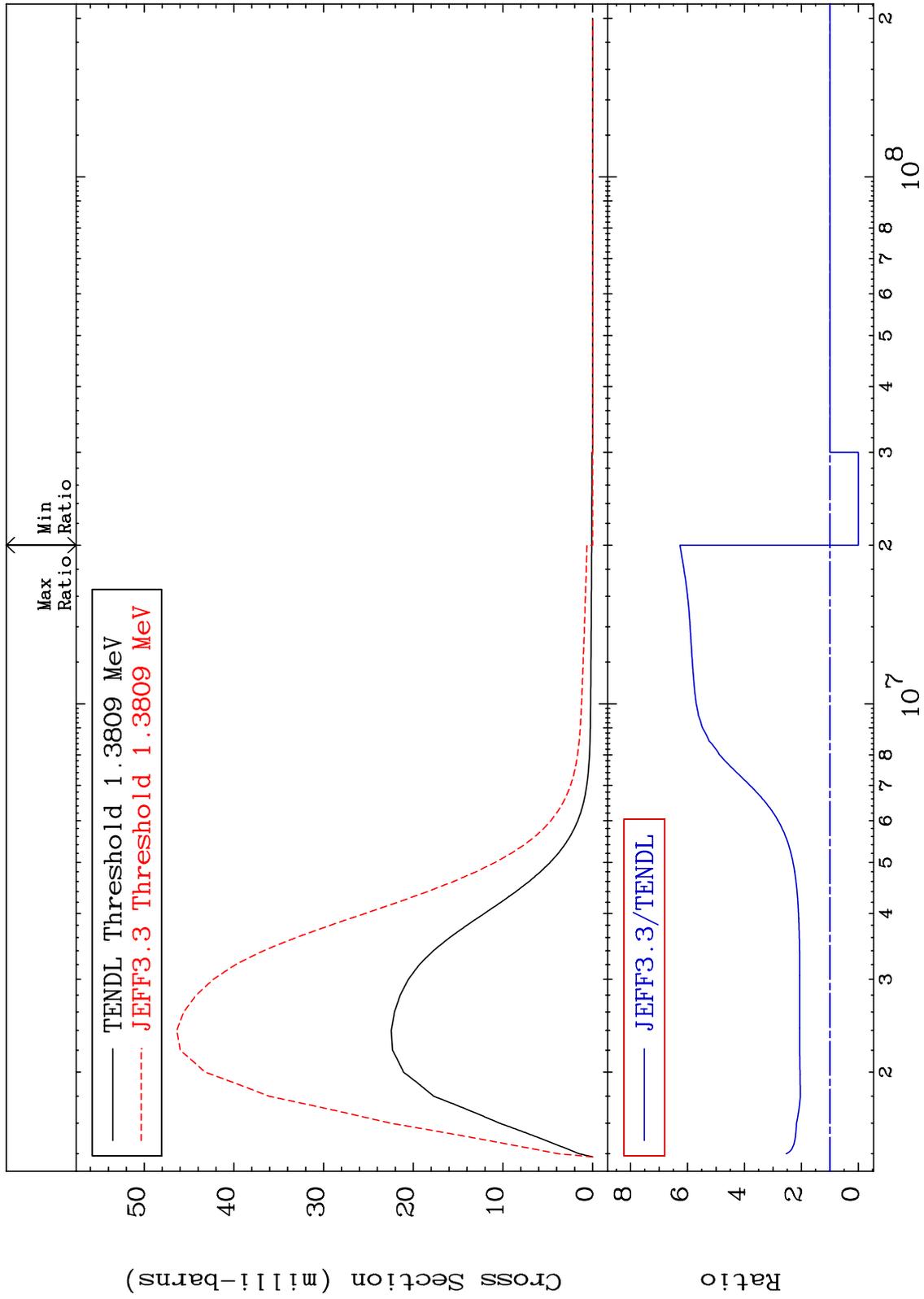
MAT 8228

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

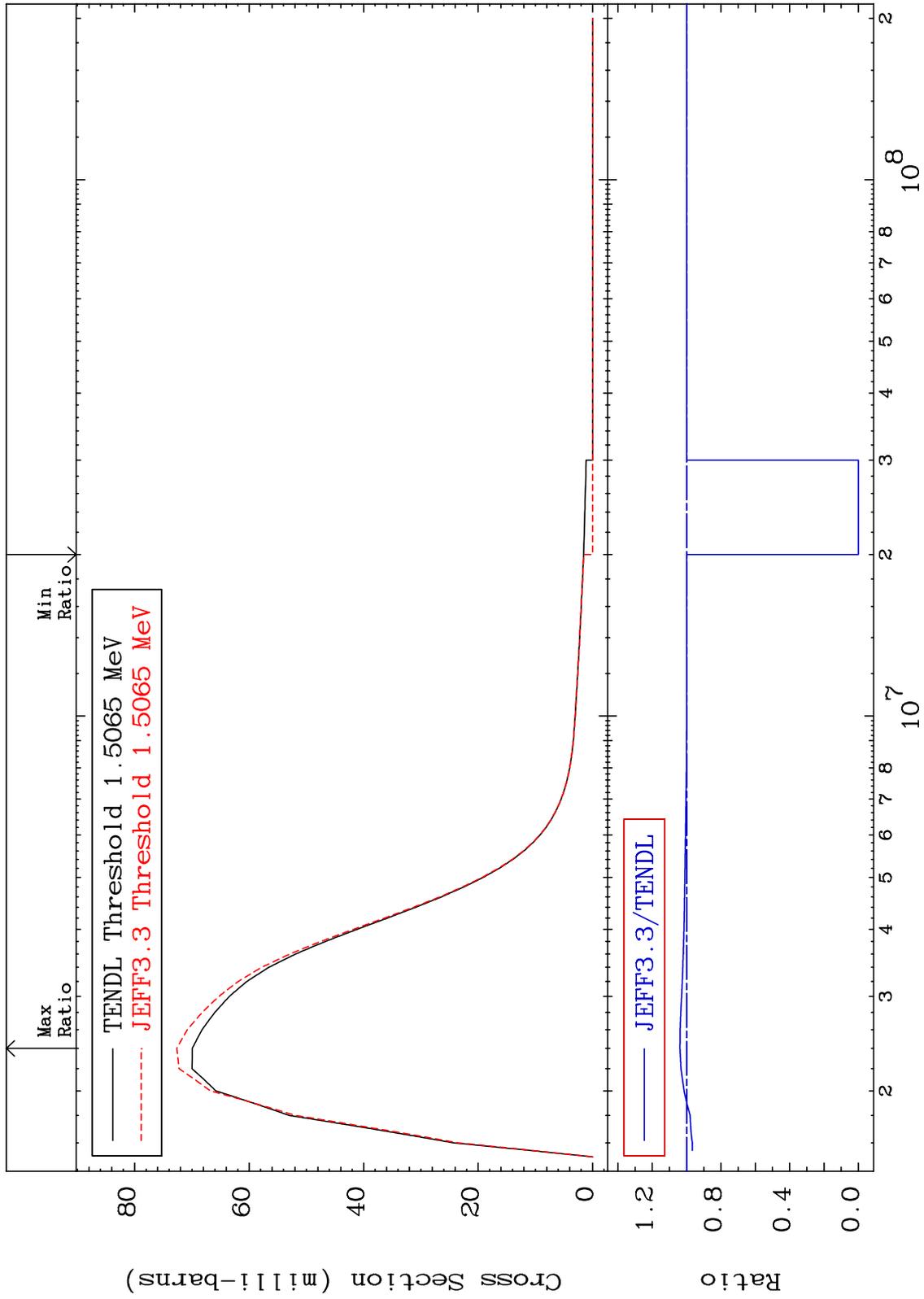
82-Pb-205
-100.0 To 2.910 %



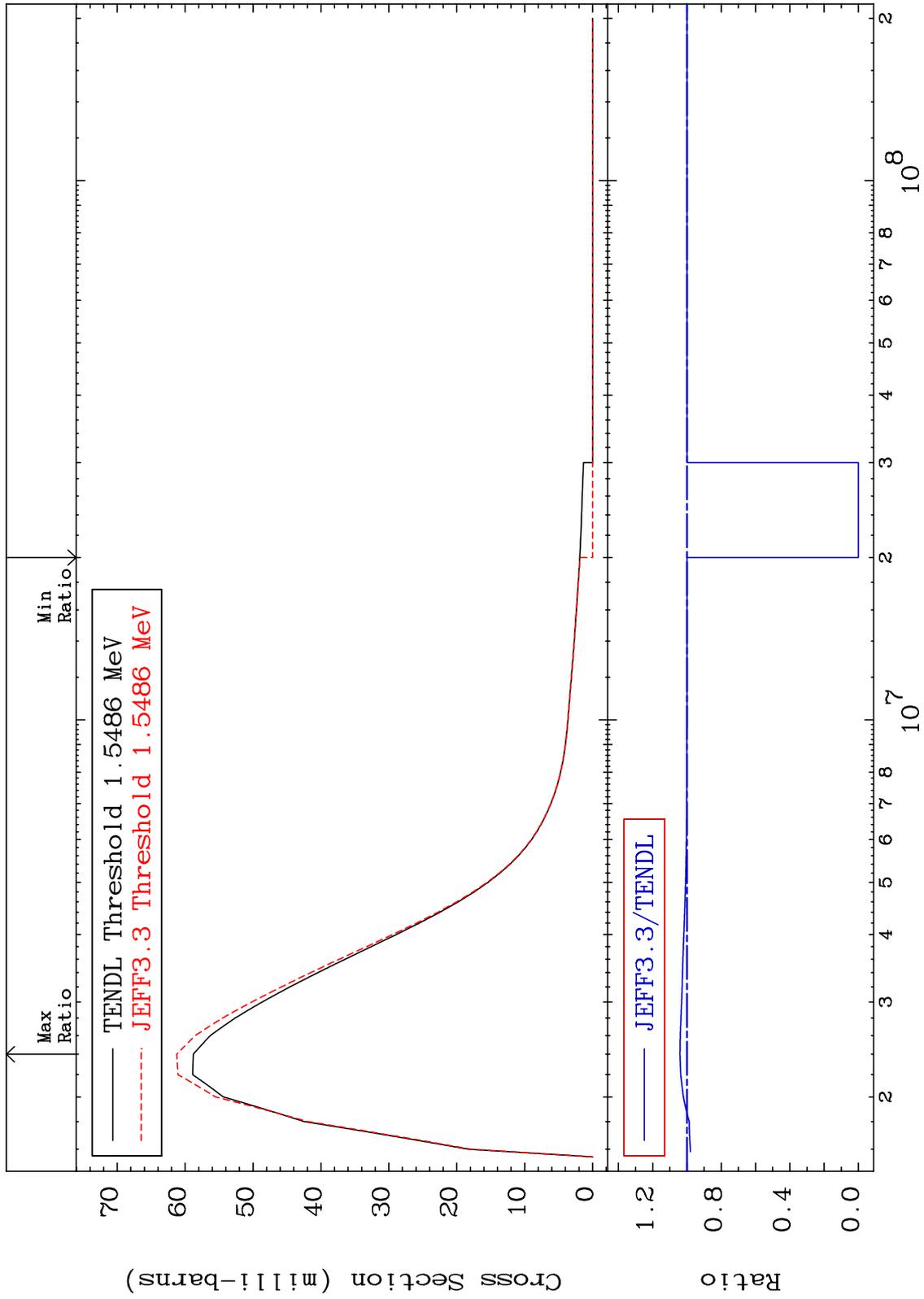
MAT 8228 MT= 62 (n,n') Level Cross Section 82-Pb-205
 -100.0 To 526.7 %



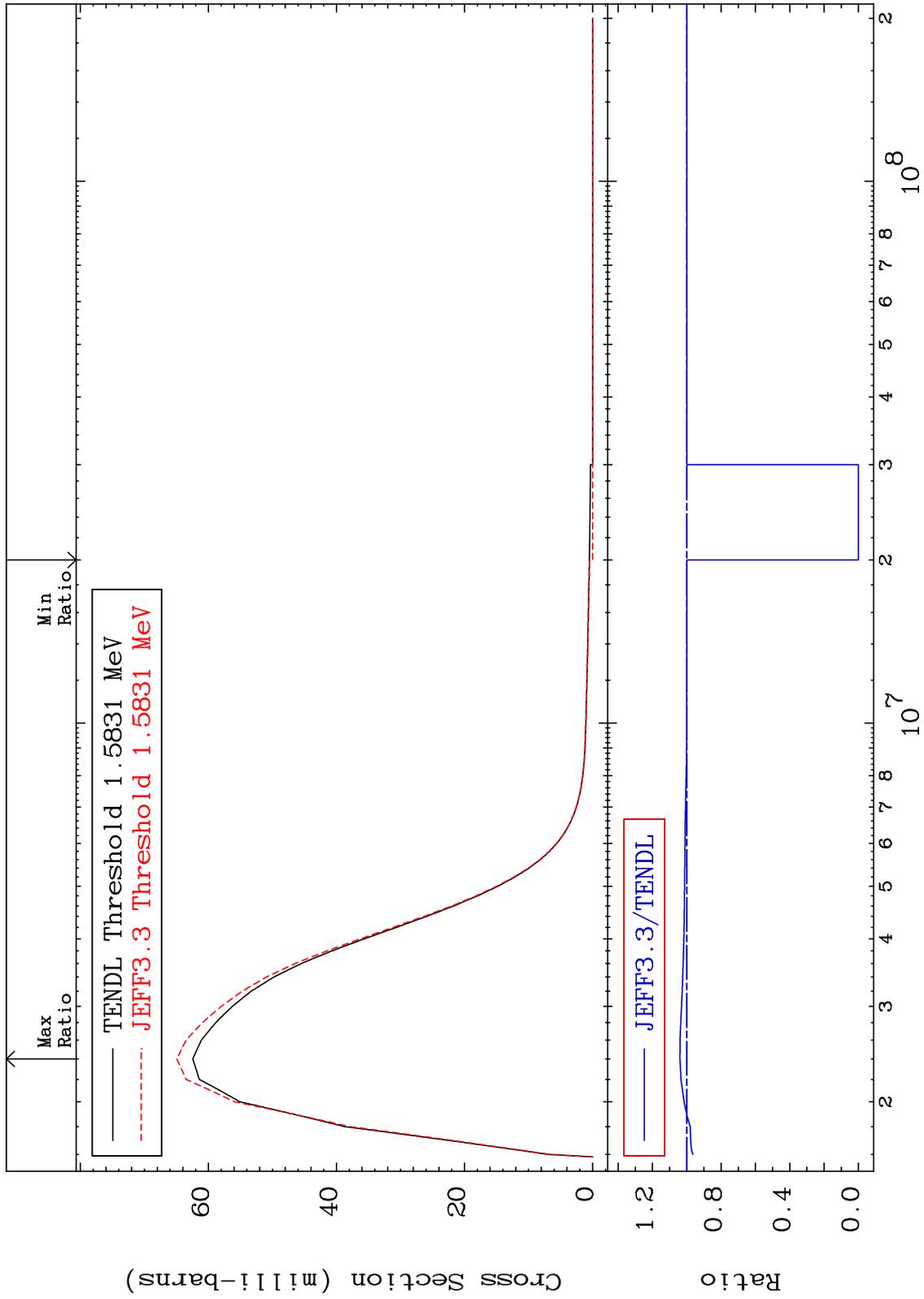
MAT 8228 MT= 63 (n,n') Level Cross Section -100.0 To 3.868 % 82-Pb-205



MAT 8228 MT= 64 (n, n') Level Cross Section -100.0 To 4.119 % 82-Pb-205



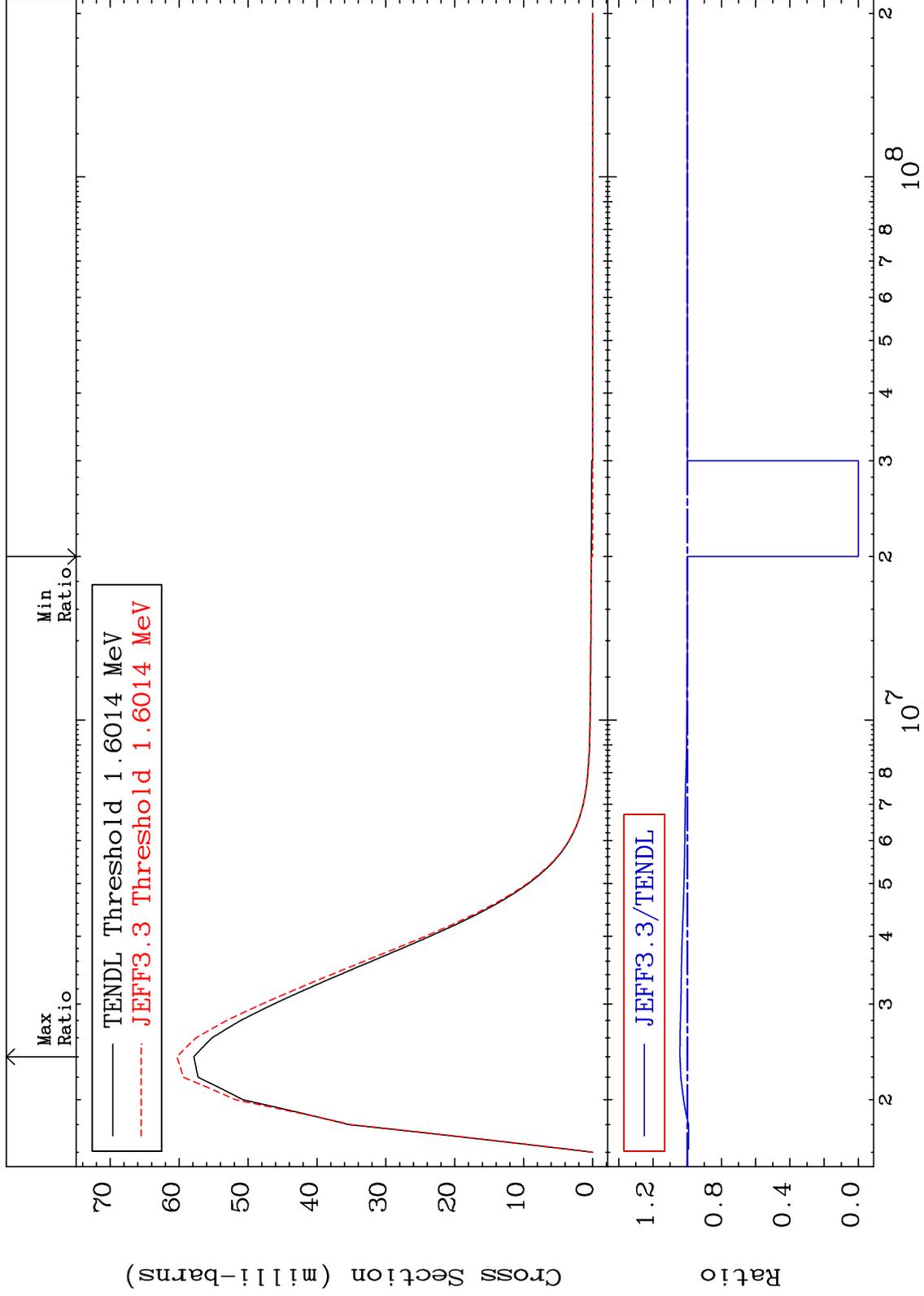
MAT 8228 MT= 65 (n,n') Level Cross Section -100.0 To 3.978 % 82-Pb-205



MAT 8228

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

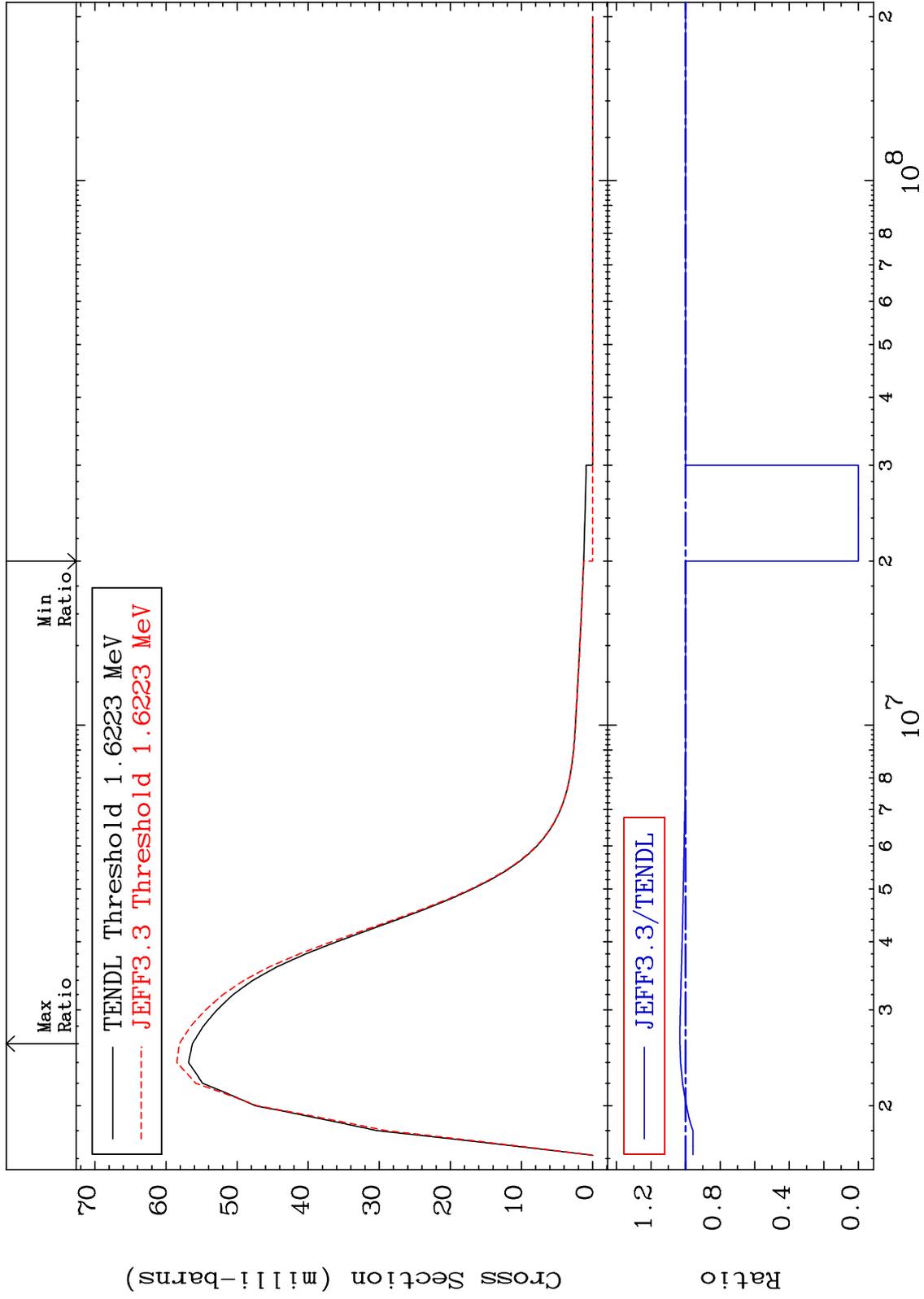
82-Pb-205
-100.0 To 4.249 %



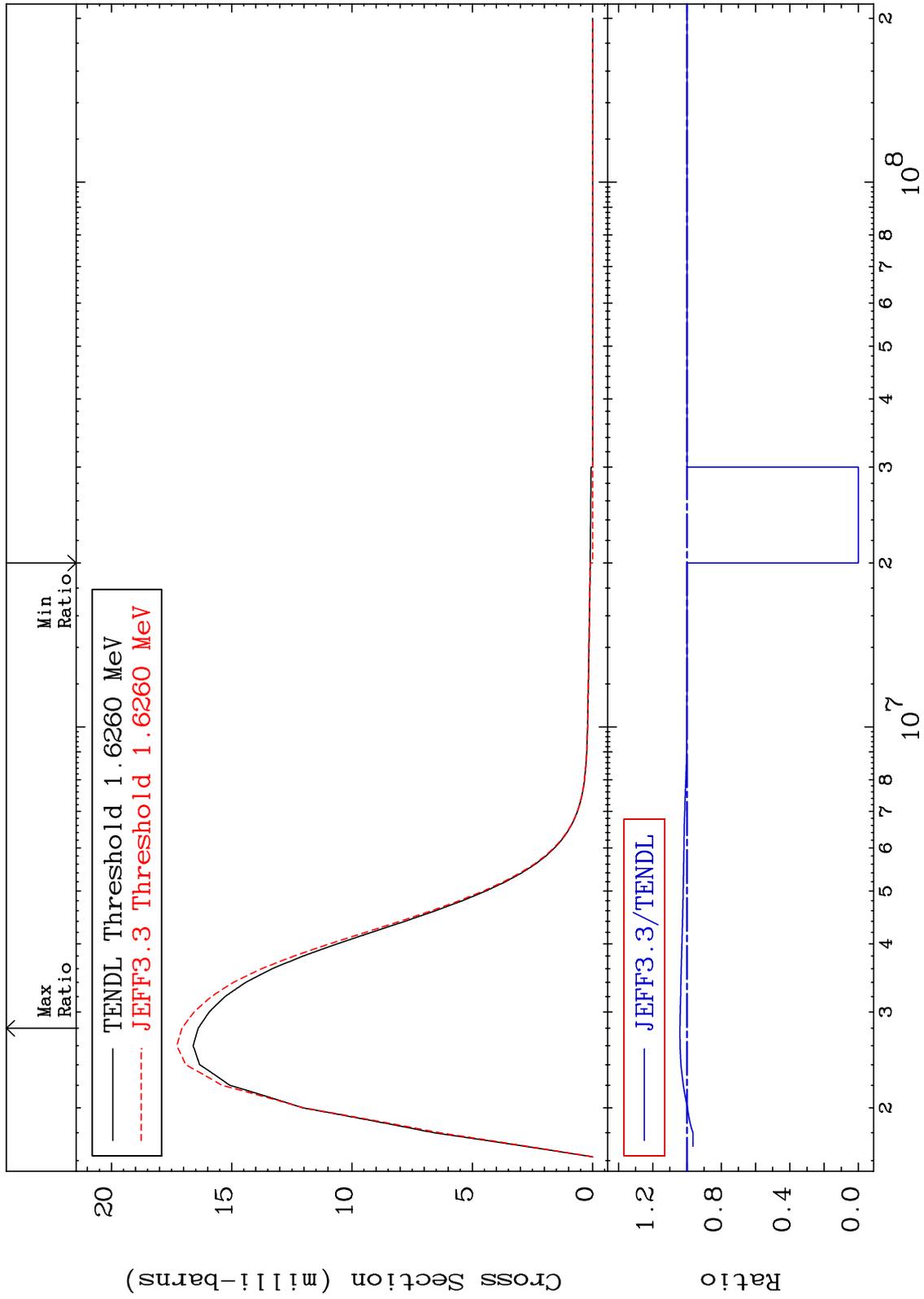
MAT 8228

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

82-Pb-205
-100.0 To 3.269 %



MAT 8228 MT= 68 (n, n') Level
 Cross Section 82-Pb-205
 -100.0 To 4.127 %



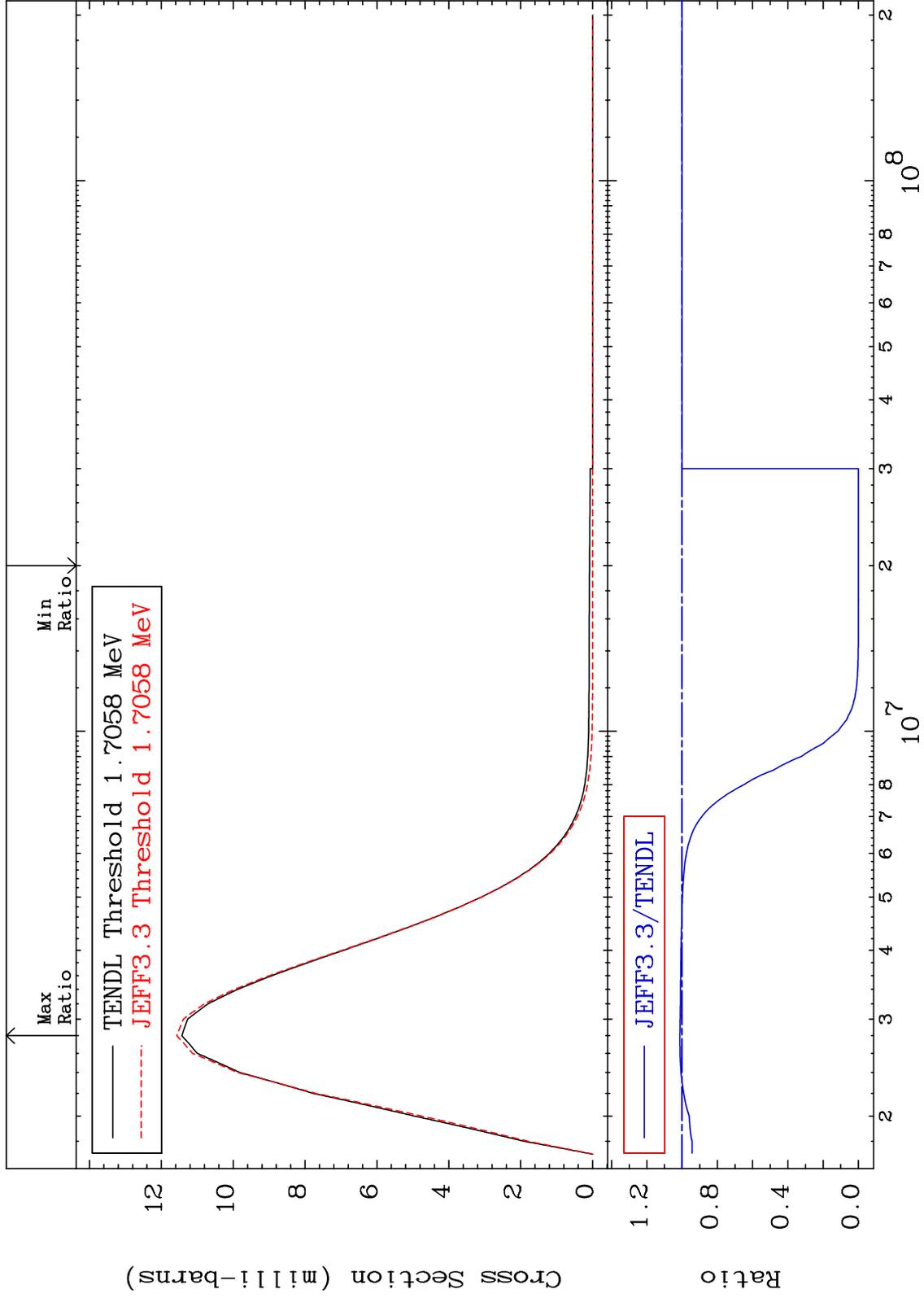
82-Pb-205

Incident Energy (eV)

MAT 8228

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

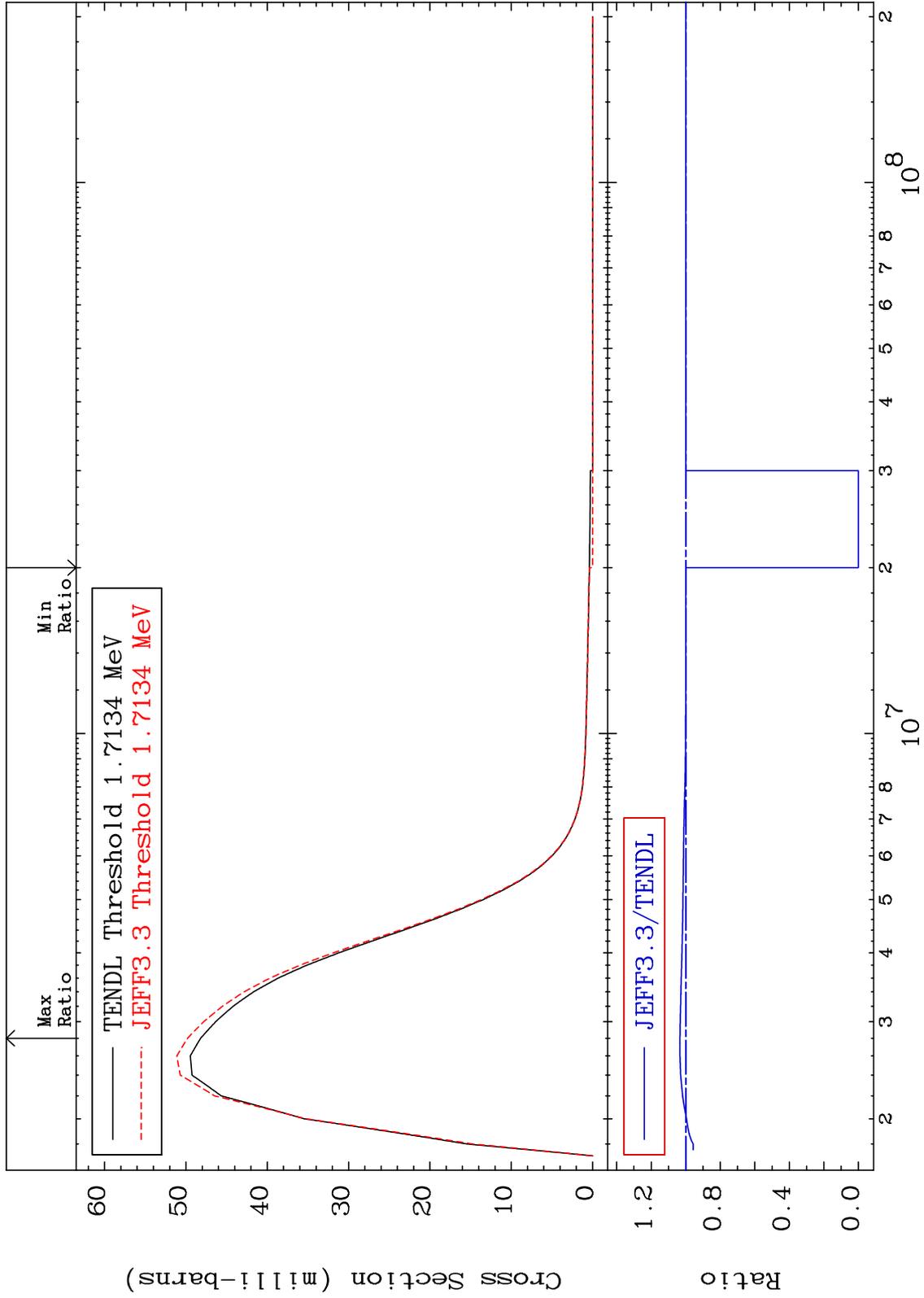
82-Pb-205
-100.0 To 1.226 %



MAT 8228

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

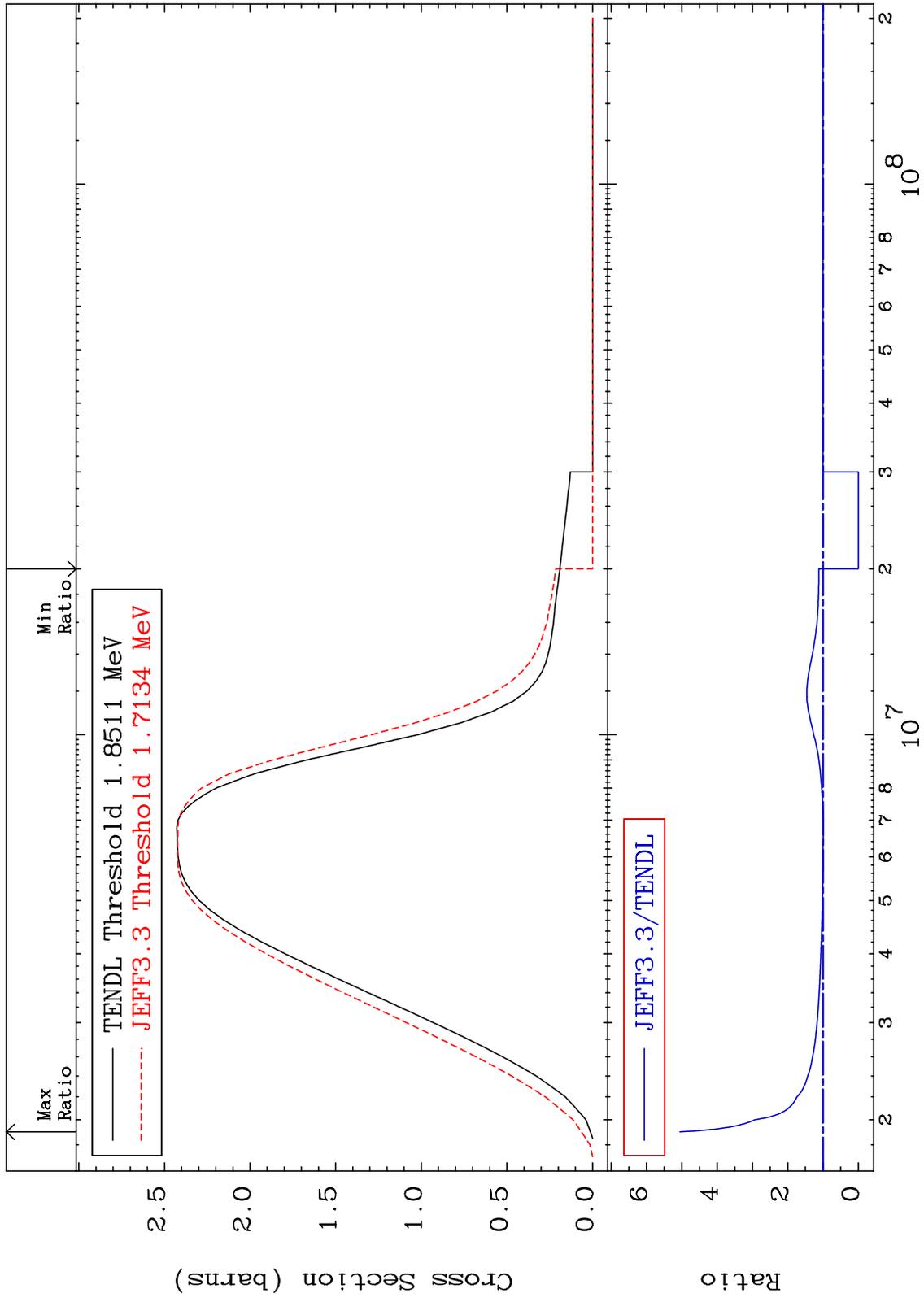
82-Pb-205
-100.0 To 3.349 %



MAT 8228

(n, n') Continuum
Cross Section

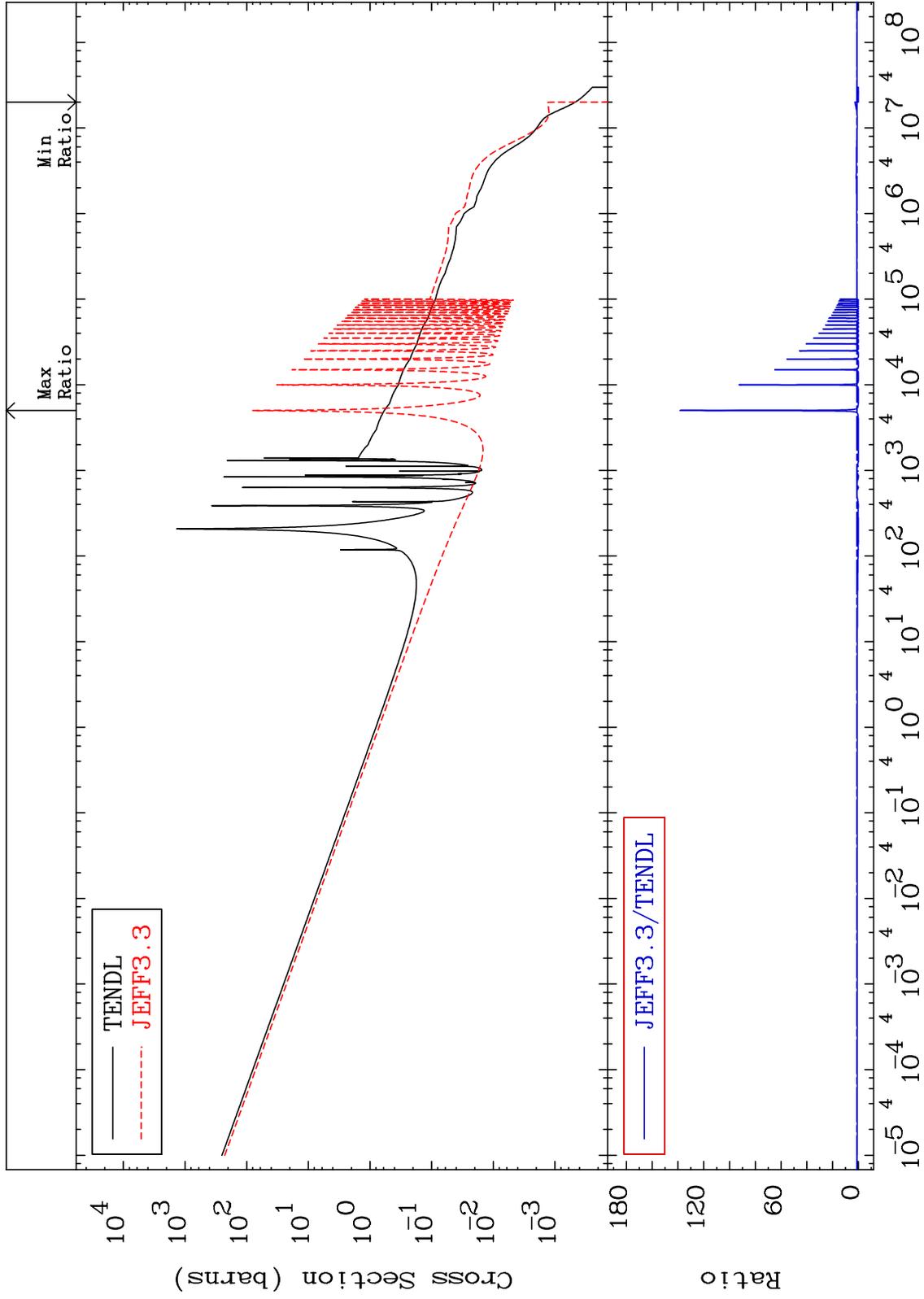
82-Pb-205
-100.0 To 405.4 %



MAT 8228

(n, γ)
Cross Section

82-Pb-205
-100.0 To 9999. %



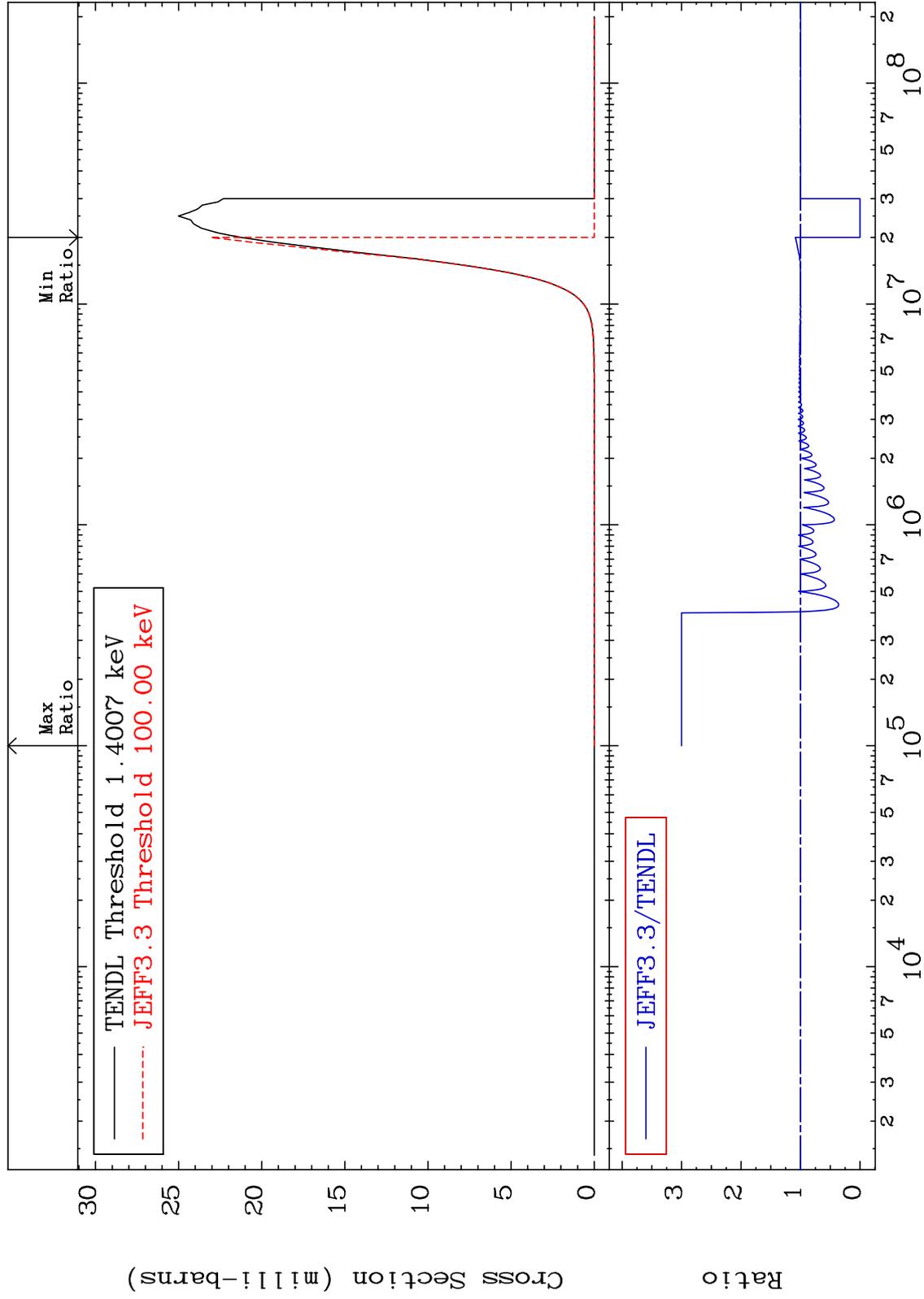
MAT 8228

(n, p)

82-Pb-205

Cross Section

-100.0 To 200.0 %



35

82-Pb-205

82-Pb-205

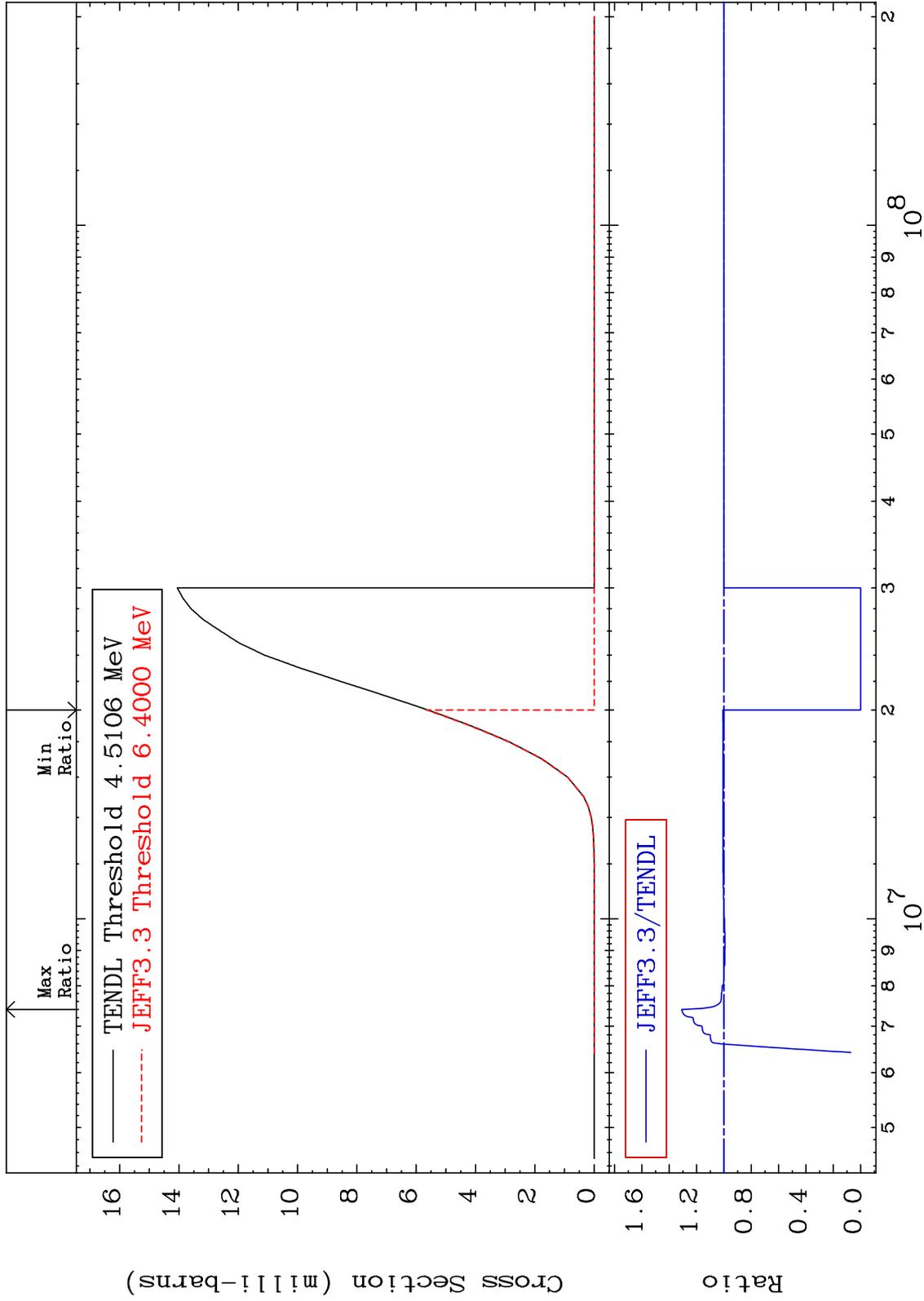
MAT 8228

(n, d)

82-Pb-205

Cross Section

-100.0 To 30.86 %



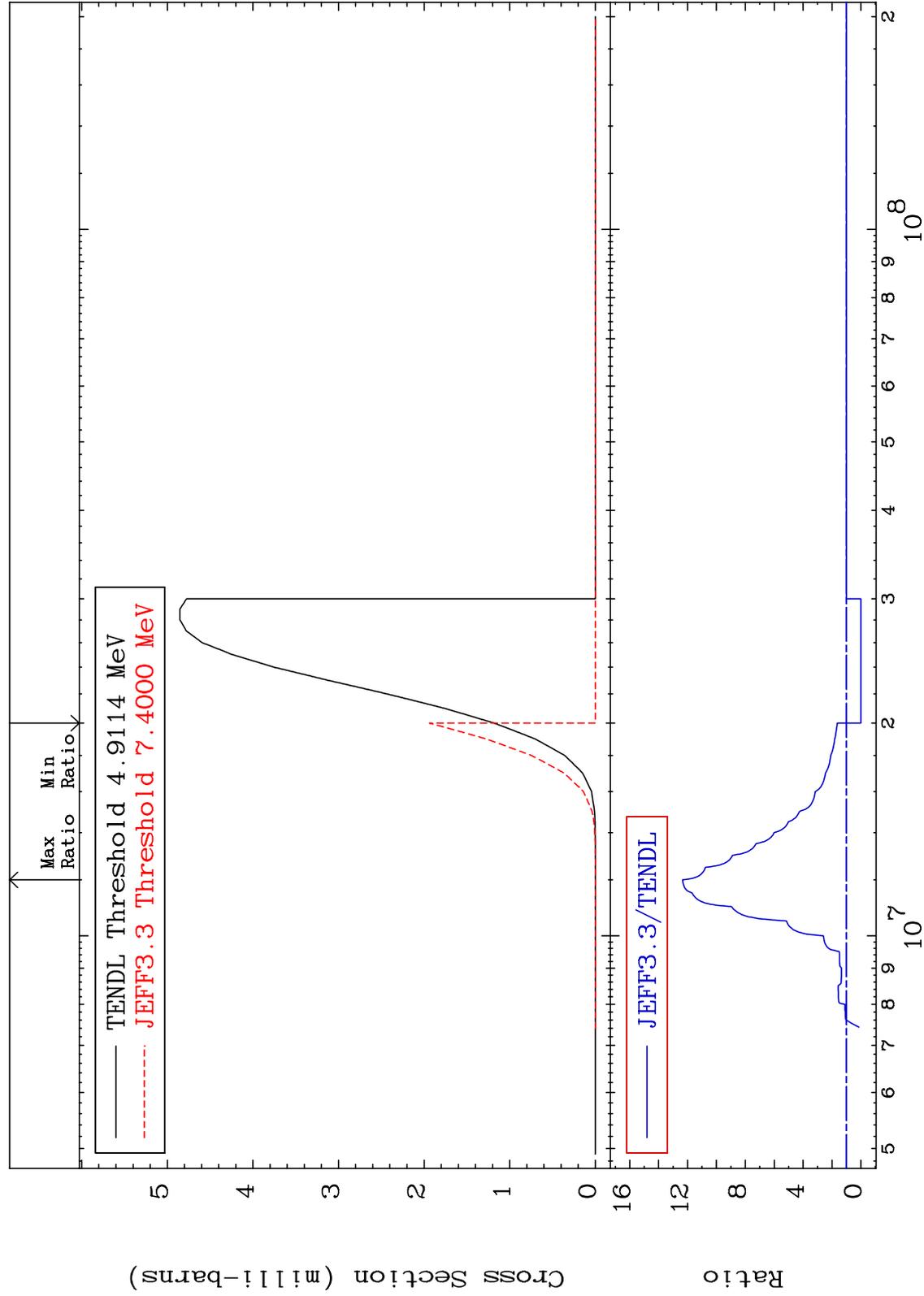
MAT 8228

(n, t)

82-Pb-205

Cross Section

-100.0 To 1134. %



37

Incident Energy (eV)

82-Pb-205

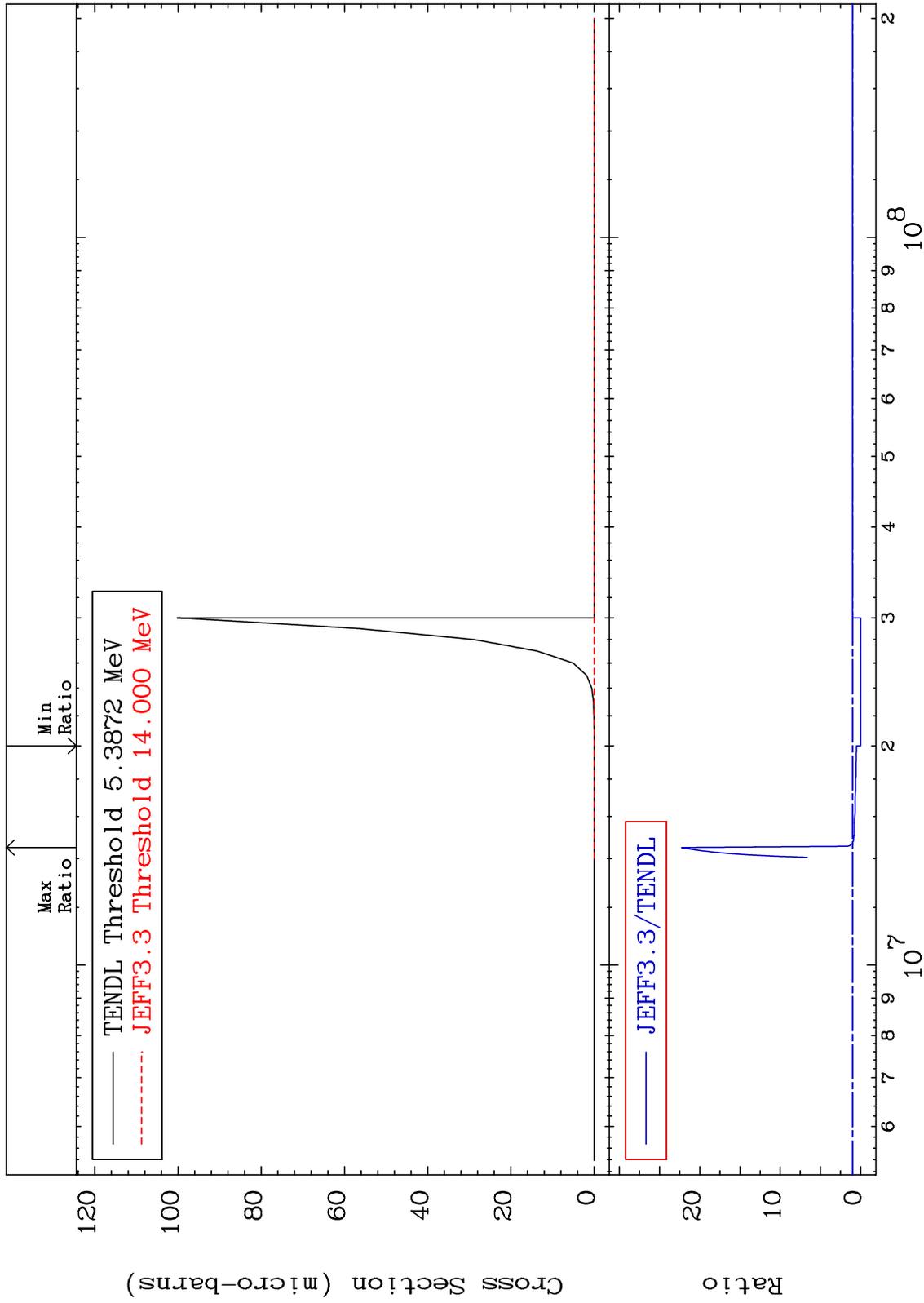
MAT 8228

(n, He-3)

82-Pb-205

Cross Section

-100.0 To 2124. %



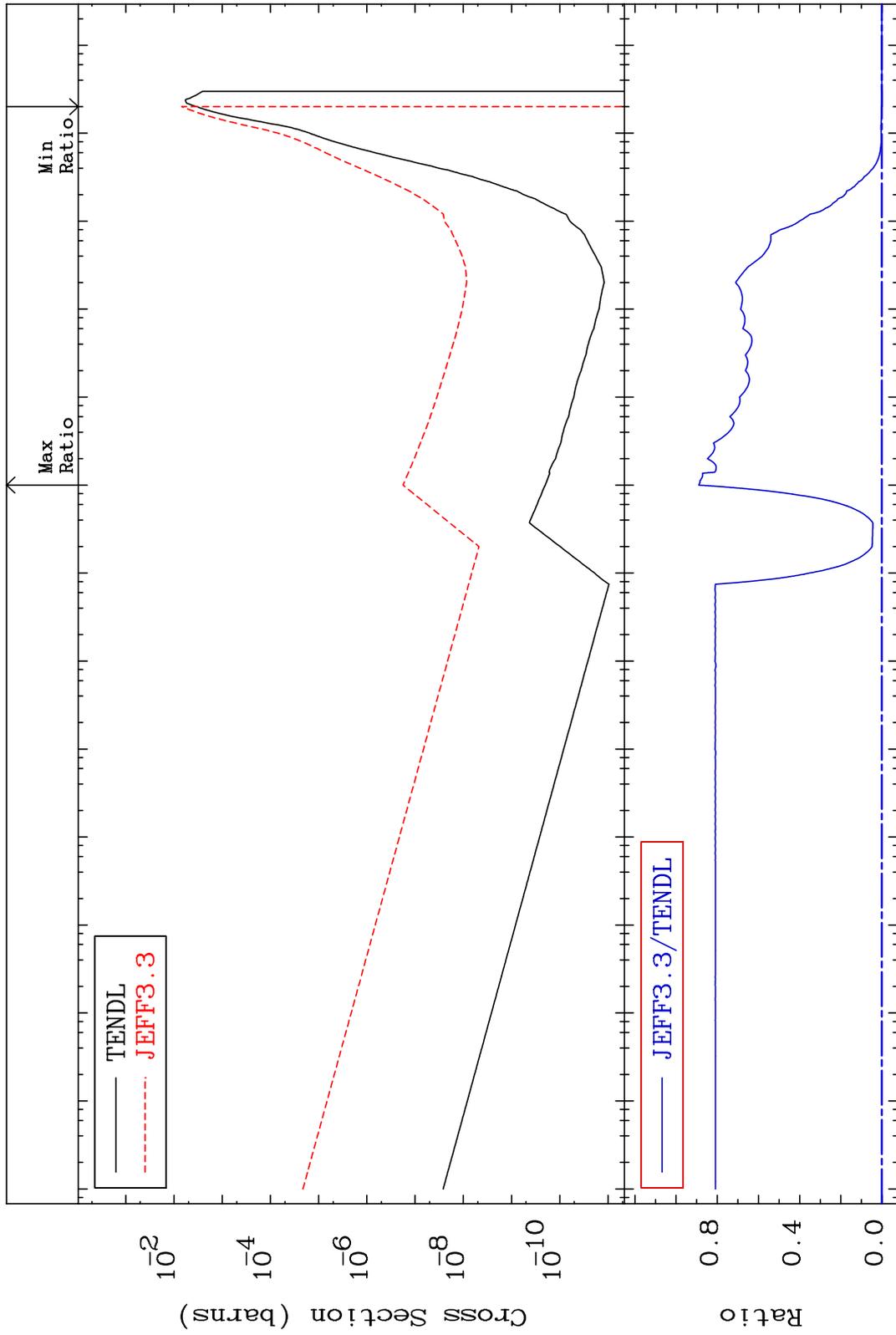
MAT 8228

(n, α)

82-Pb-205

-100.0 To 9999. %

Cross Section



Incident Energy (eV)

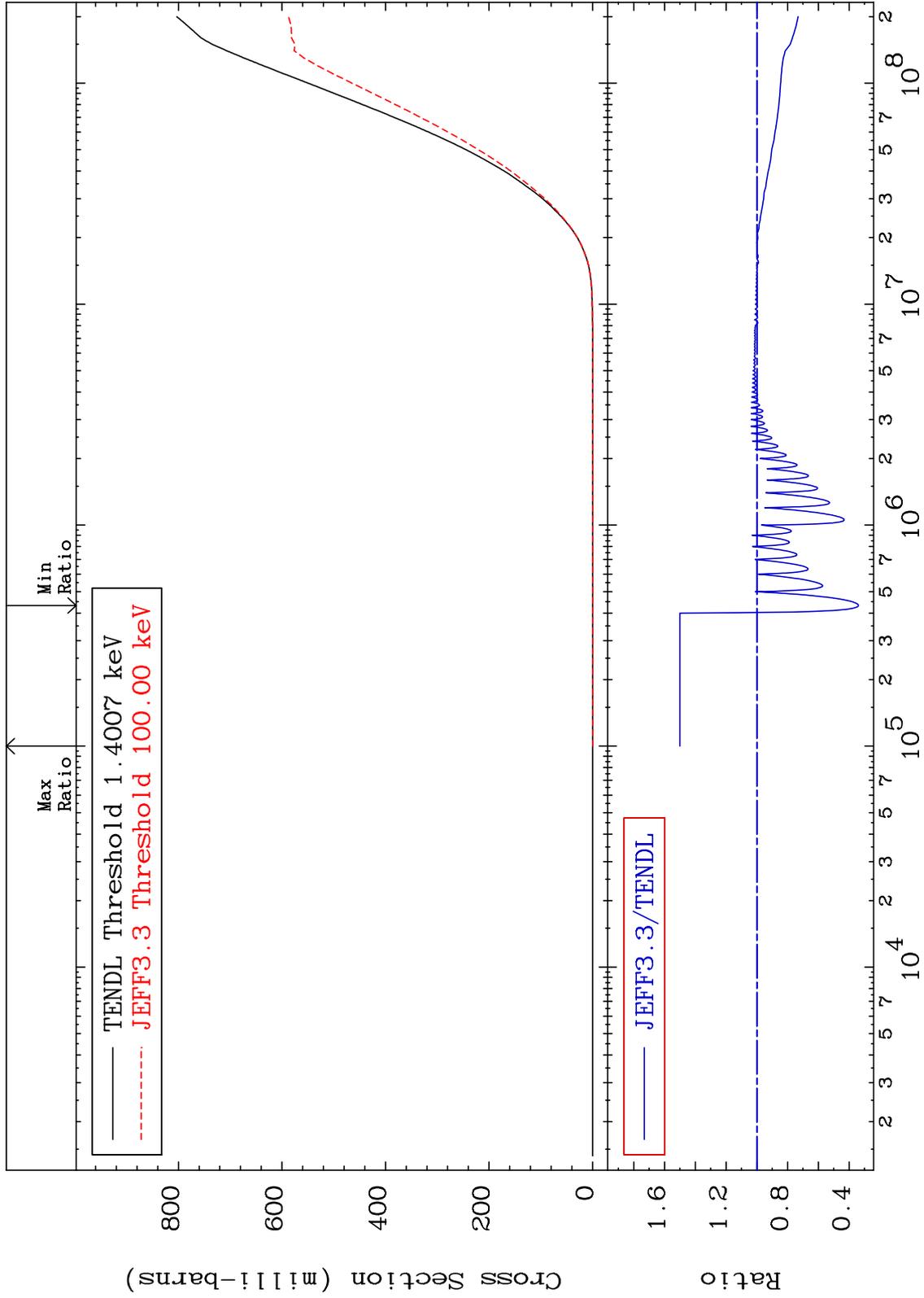
39

82-Pb-205

MAT 8228

Hydrogen Production
Cross Section

82-Pb-205
-66.00 To 50.00 %



40

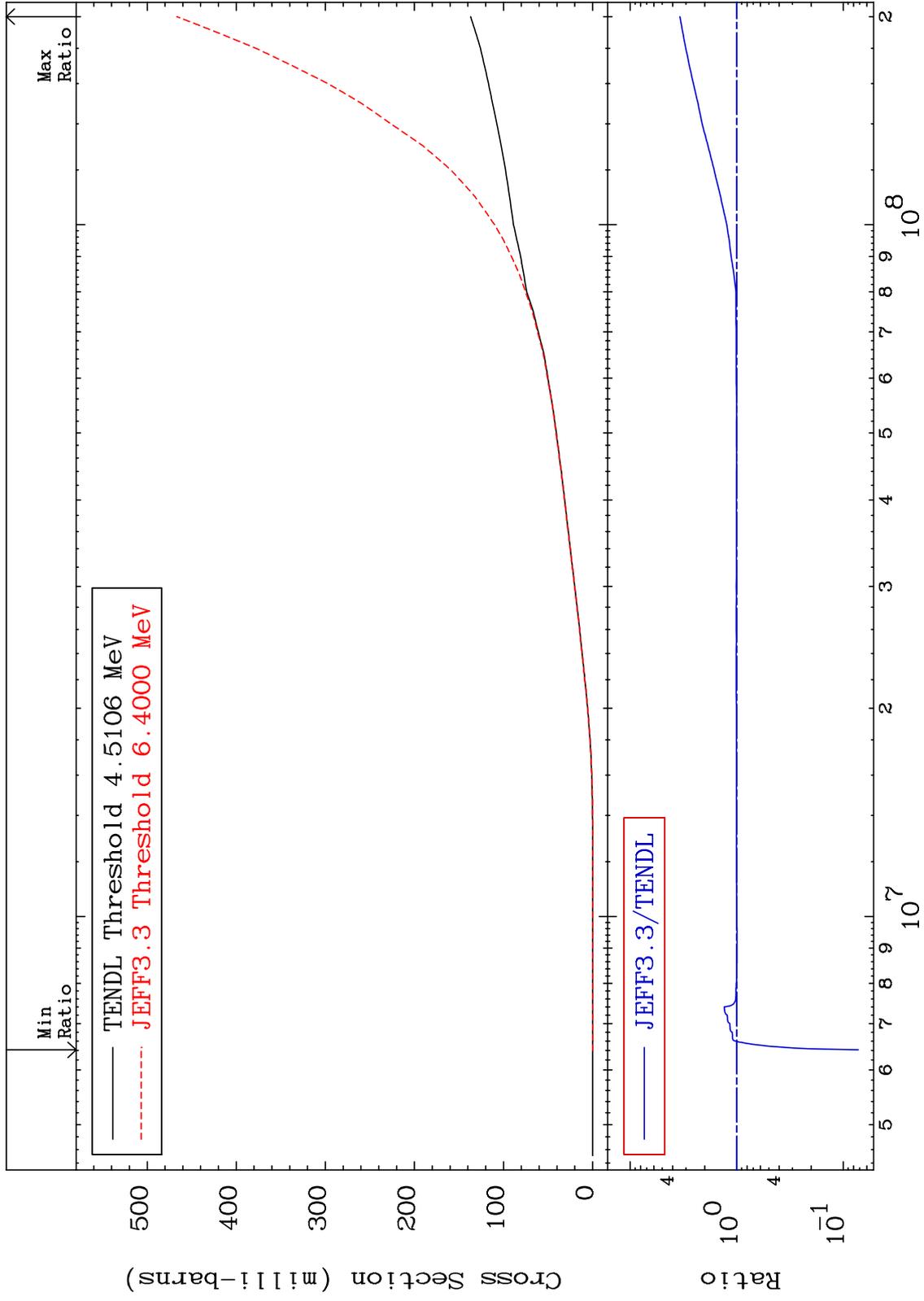
Incident Energy (eV)

82-Pb-205

MAT 8228

Deuterium Production
Cross Section

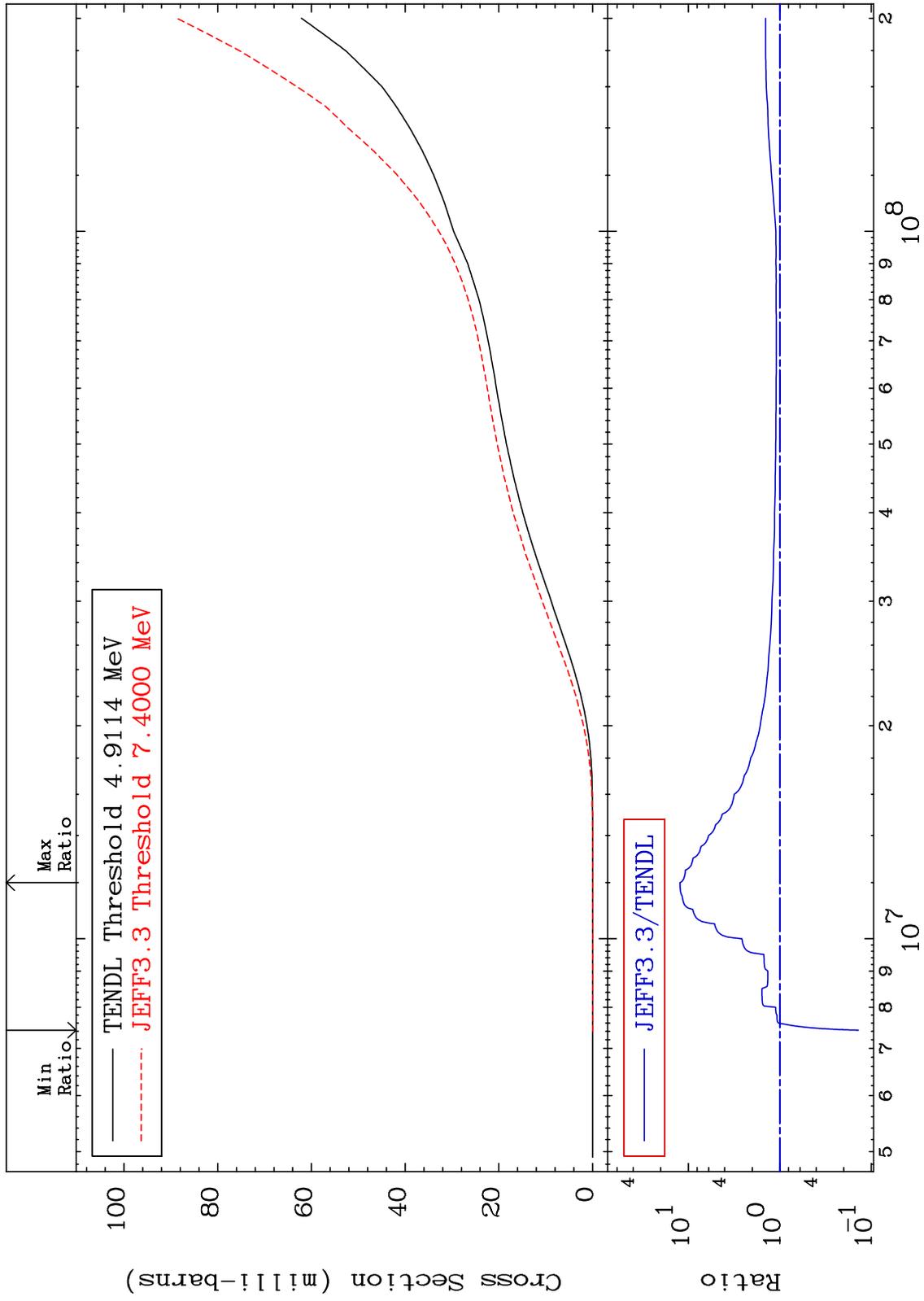
82-Pb-205
-92.79 To 241.1 %



MAT 8228

Tritium Production
Cross Section

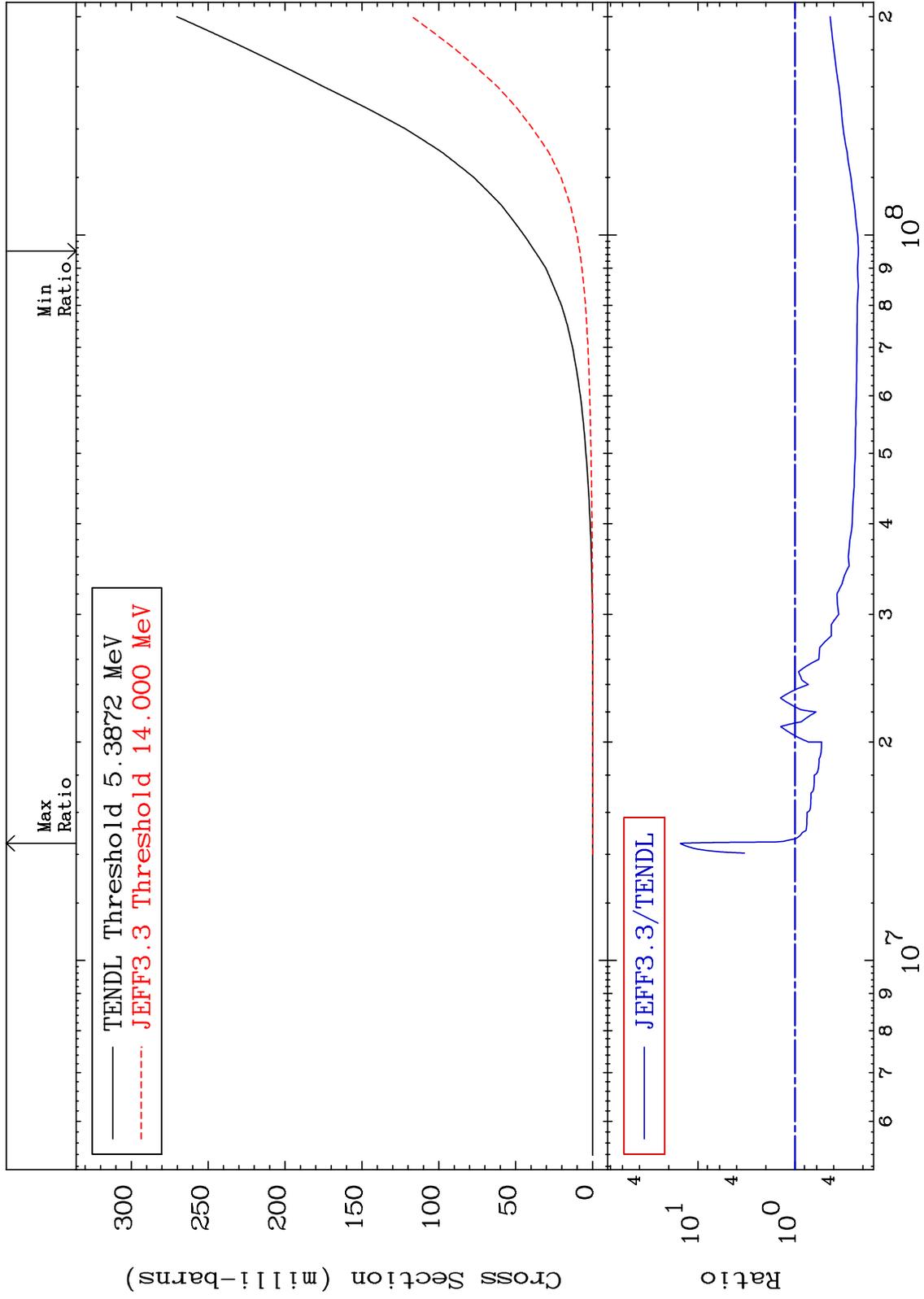
82-Pb-205
-86.18 To 1134. %



MAT 8228

He-3 Production
Cross Section

82-Pb-205
-77.72 To 1436. %



43

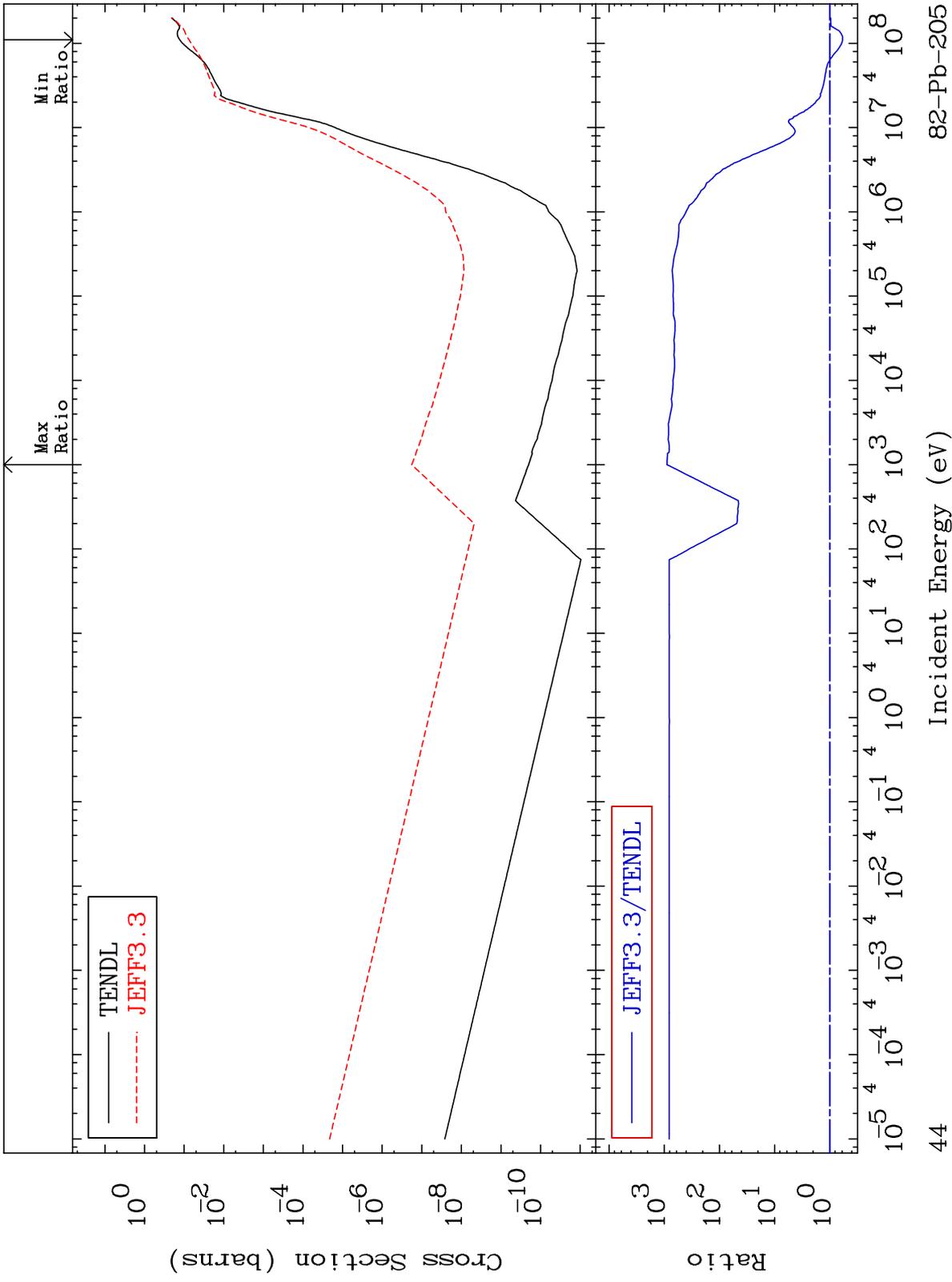
Incident Energy (eV)

82-Pb-205

MAT 8228

He-4 Production
Cross Section

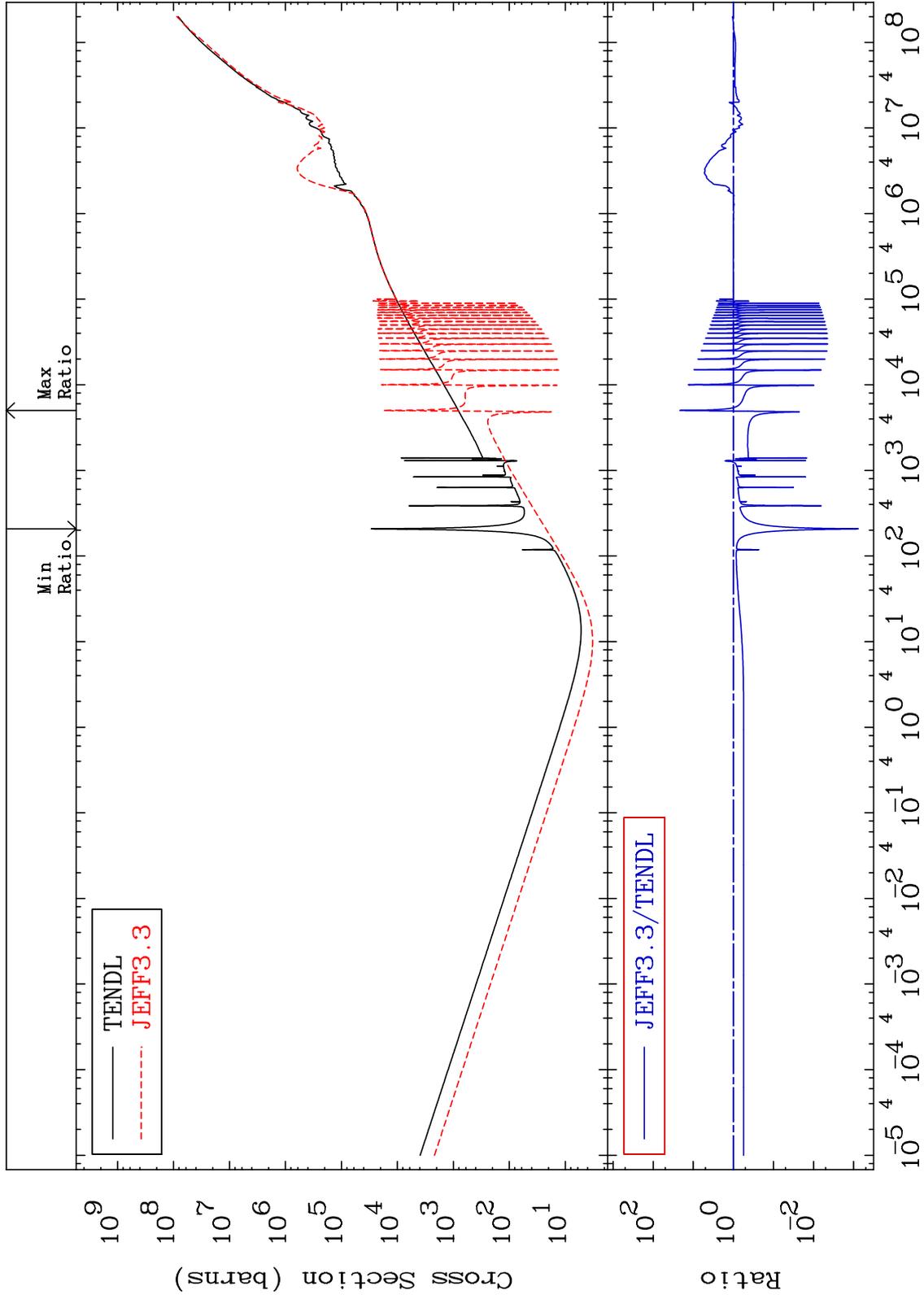
82-Pb-205
-41.44 To 9999. %



MAT 8228

Kerma total (eV-barns)
Cross Section

82-Pb-205
-99.92 To 2046. %



45

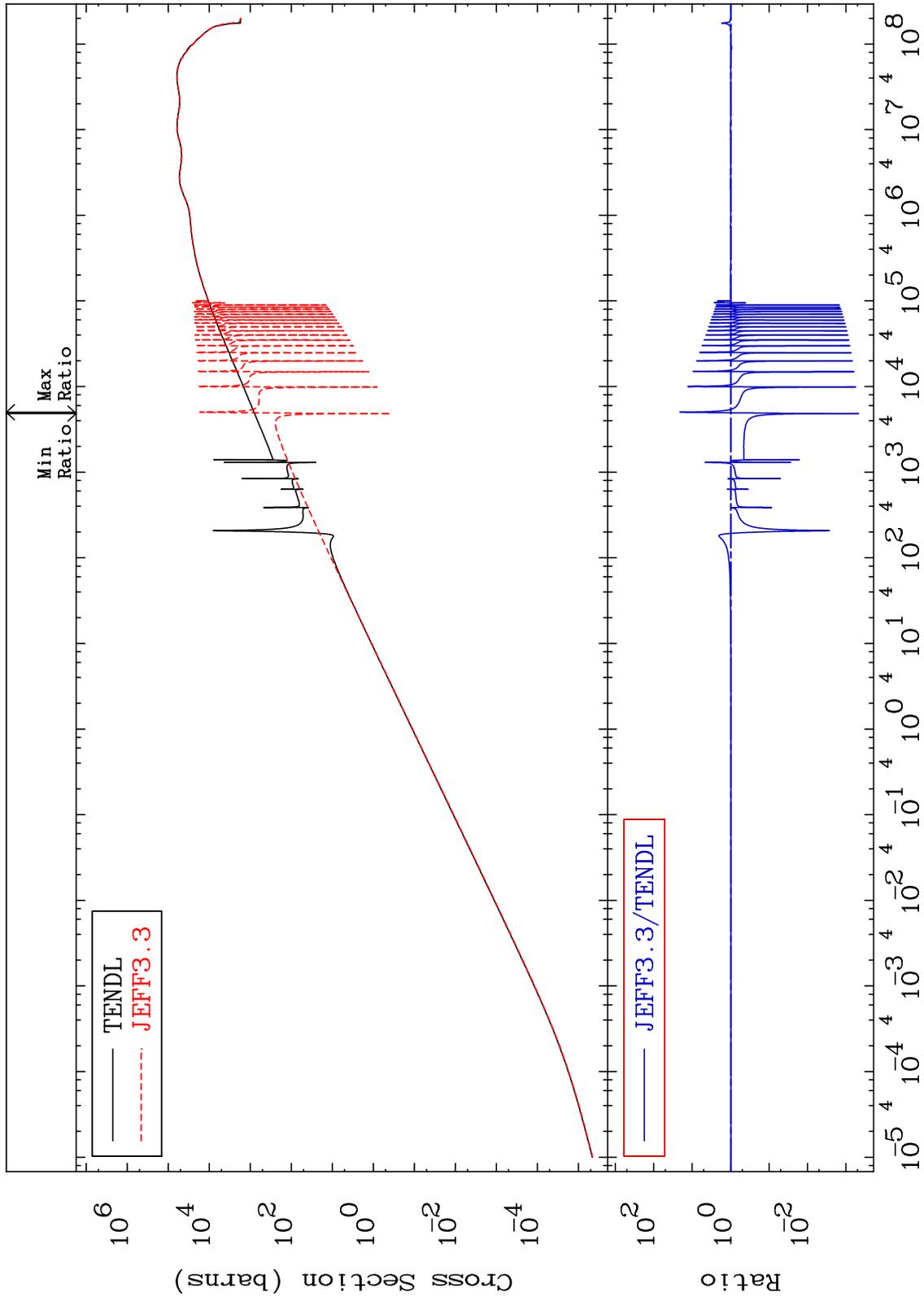
Incident Energy (eV)

82-Pb-205

MAT 8228

Kerma elastic
Cross Section

82-Pb-205
-99.95 To 1984. %



46

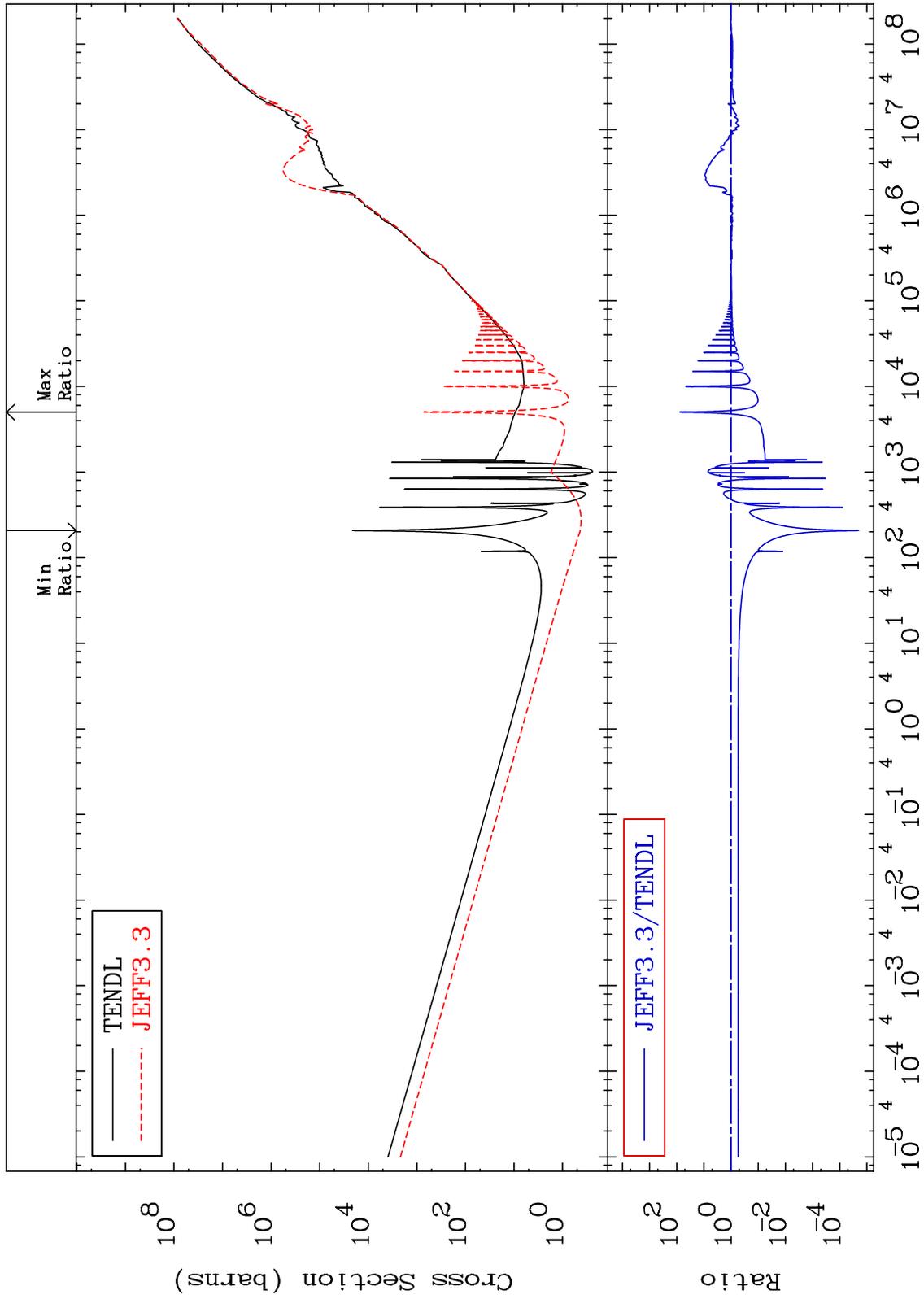
Incident Energy (eV)

82-Pb-205

MAT 8228

Kerma non-elastic (all but mt2)
Cross Section

82-Pb-205
-100.0 To 7564. %



47

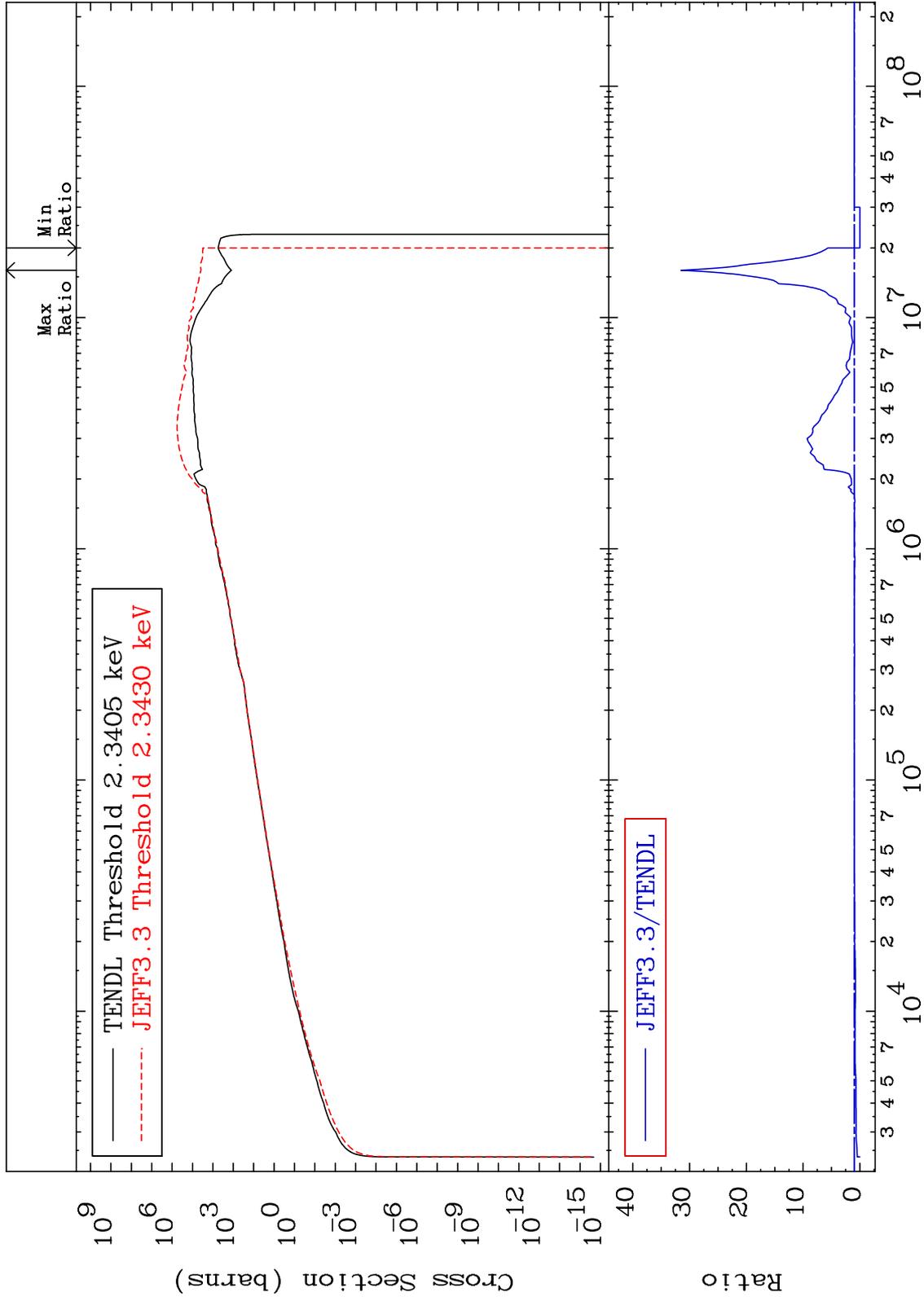
Incident Energy (eV)

82-Pb-205

MAT 8228

Kerma inelastic (mt51-91)
Cross Section

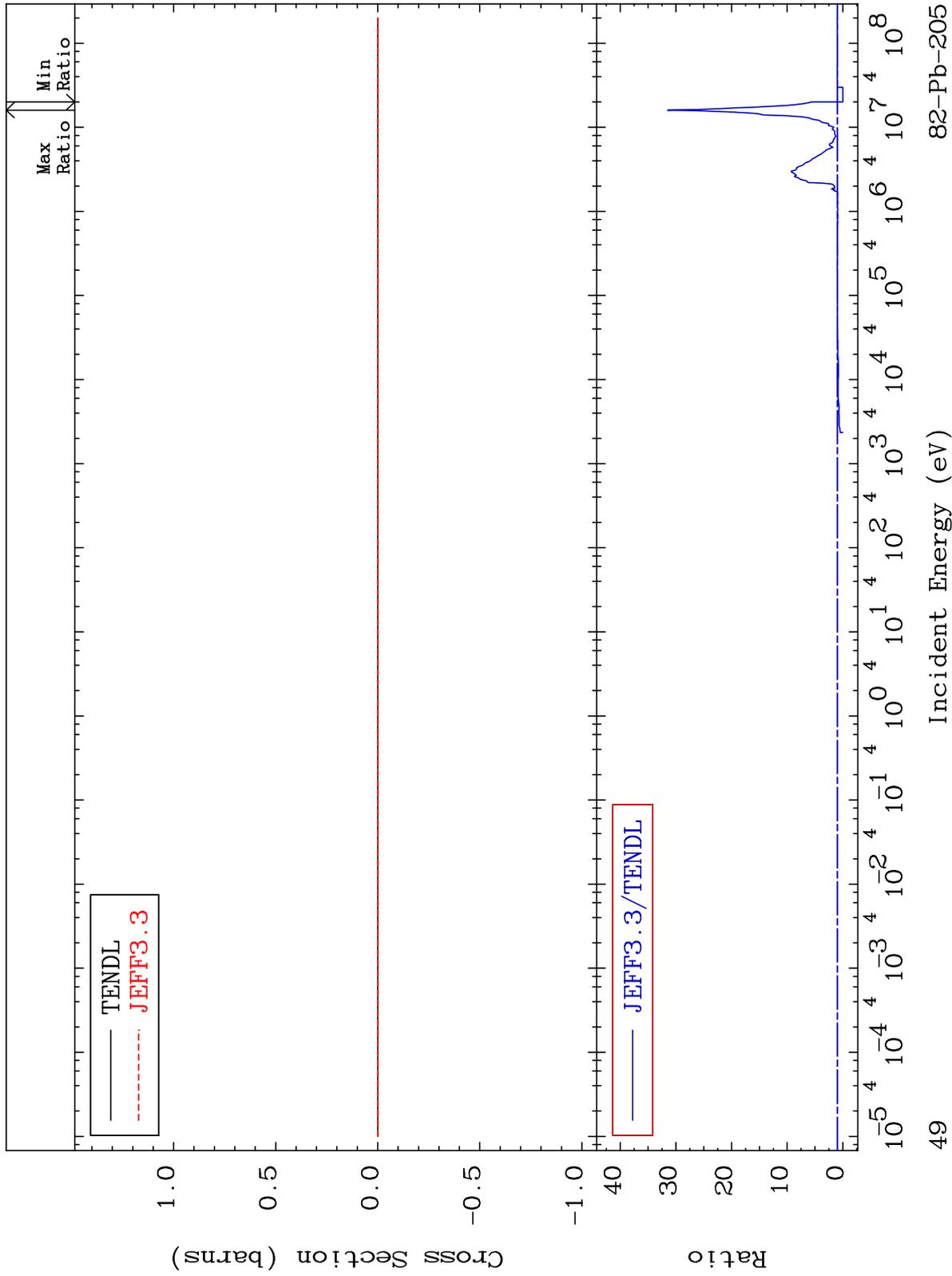
82-Pb-205
-100.0 To 3049. %



MAT 8228

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

82-Pb-205
-100.0 To 3049. %



49

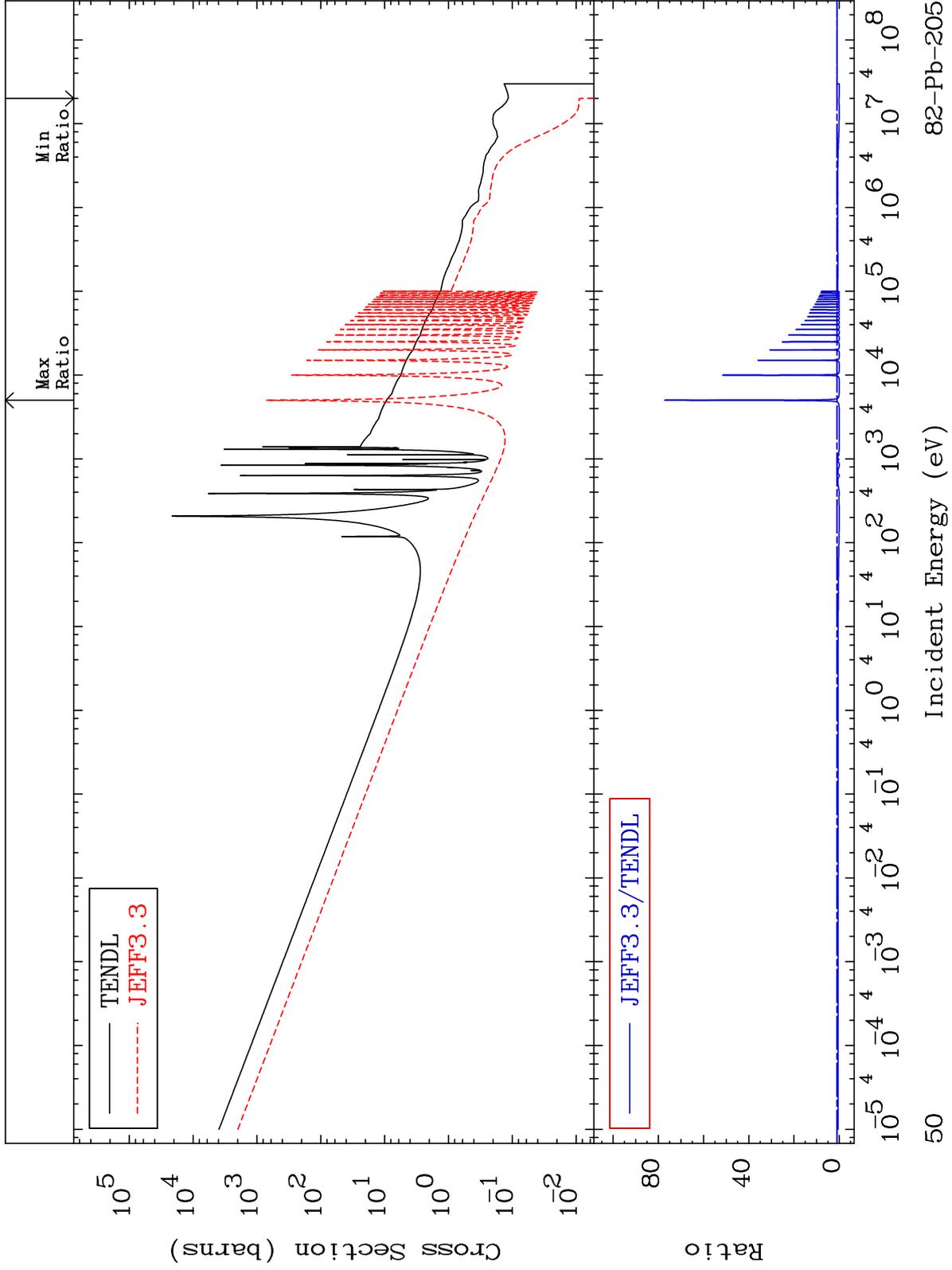
Incident Energy (eV)

82-Pb-205

MAT 8228

Kerma capture (mt102)
Cross Section

82-Pb-205
-100.0 To 7625. %



50

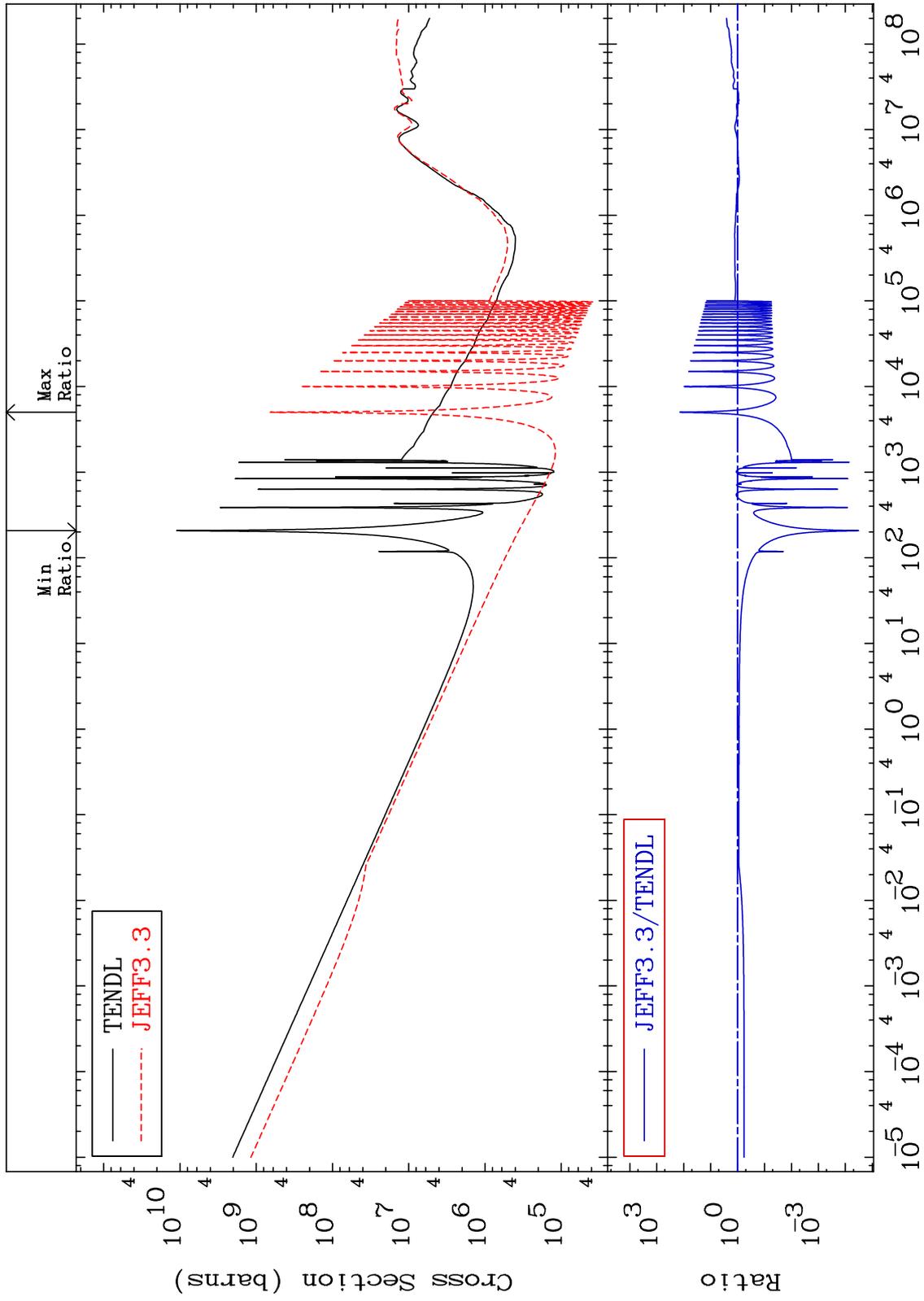
Incident Energy (eV)

82-Pb-205

MAT 8228

Total photon (eV-barns)
Cross Section

82-Pb-205
-100.0 To 9999. %



51

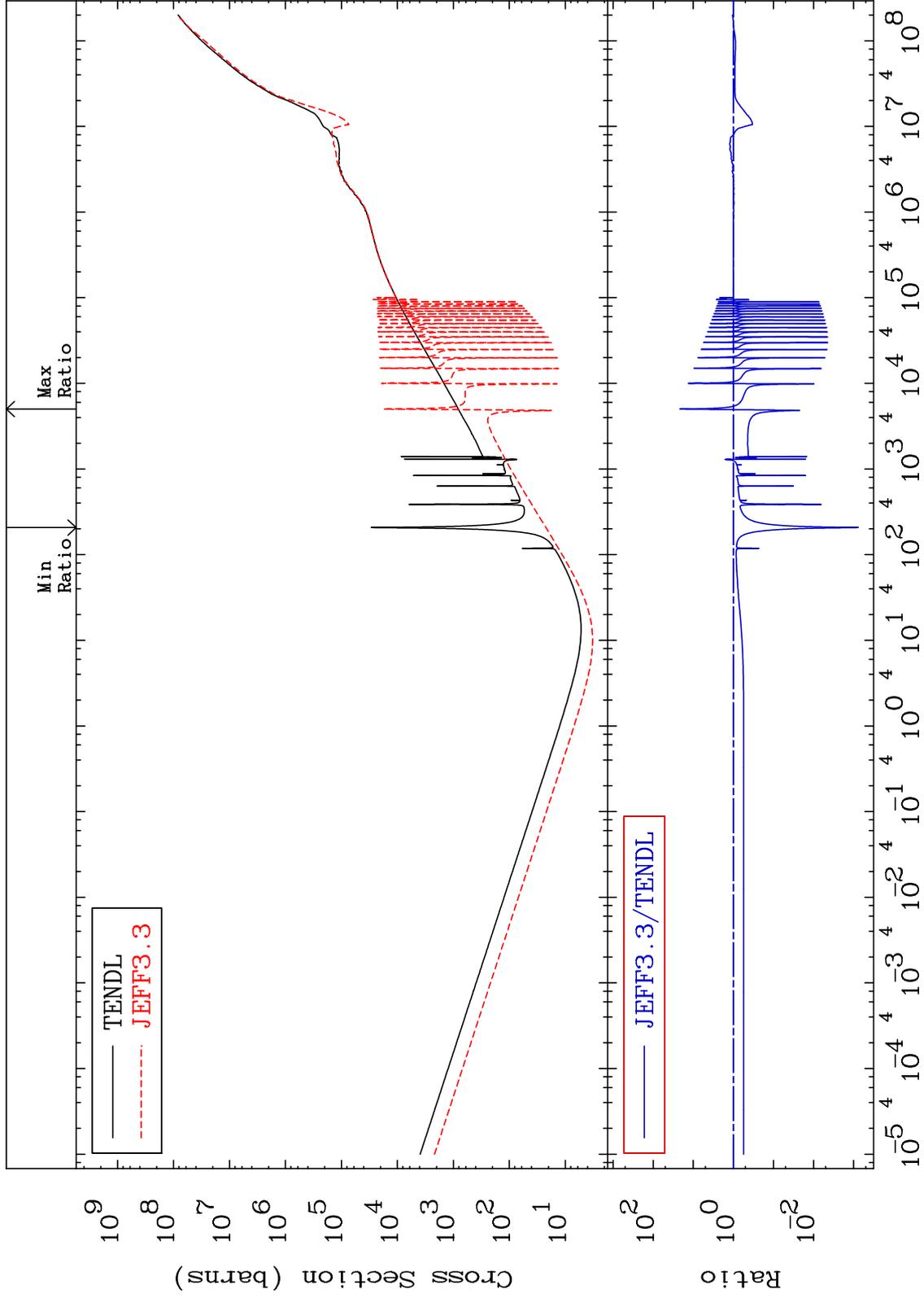
Incident Energy (eV)

82-Pb-205

MAT 8228

Total kinematic kerma (high limit)
Cross Section

82-Pb-205
-99.92 To 2046. %



52

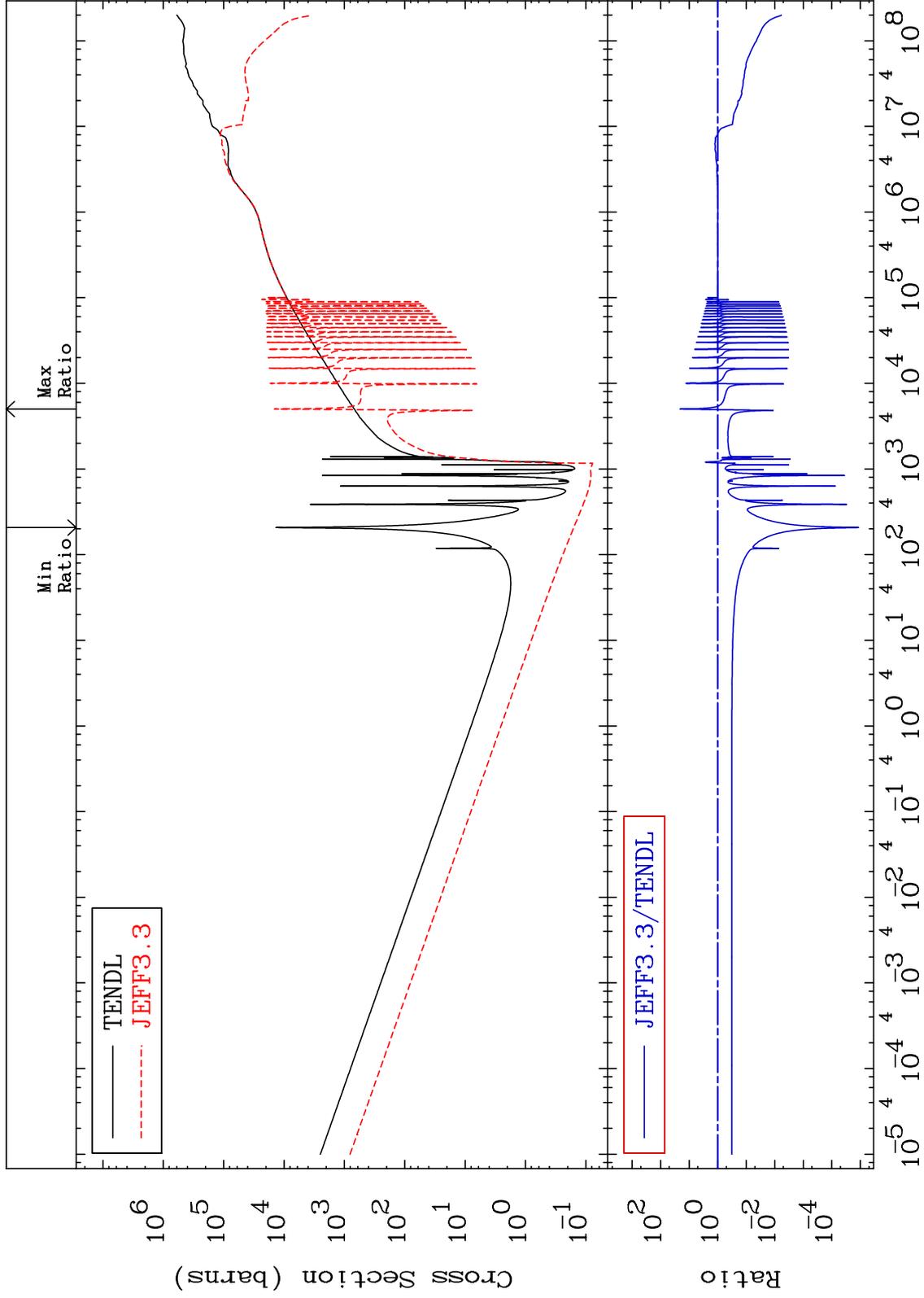
Incident Energy (eV)

82-Pb-205

MAT 8228

Dpa total (eV-barns)
Cross Section

82-Pb-205
-100.0 To 2008. %



53

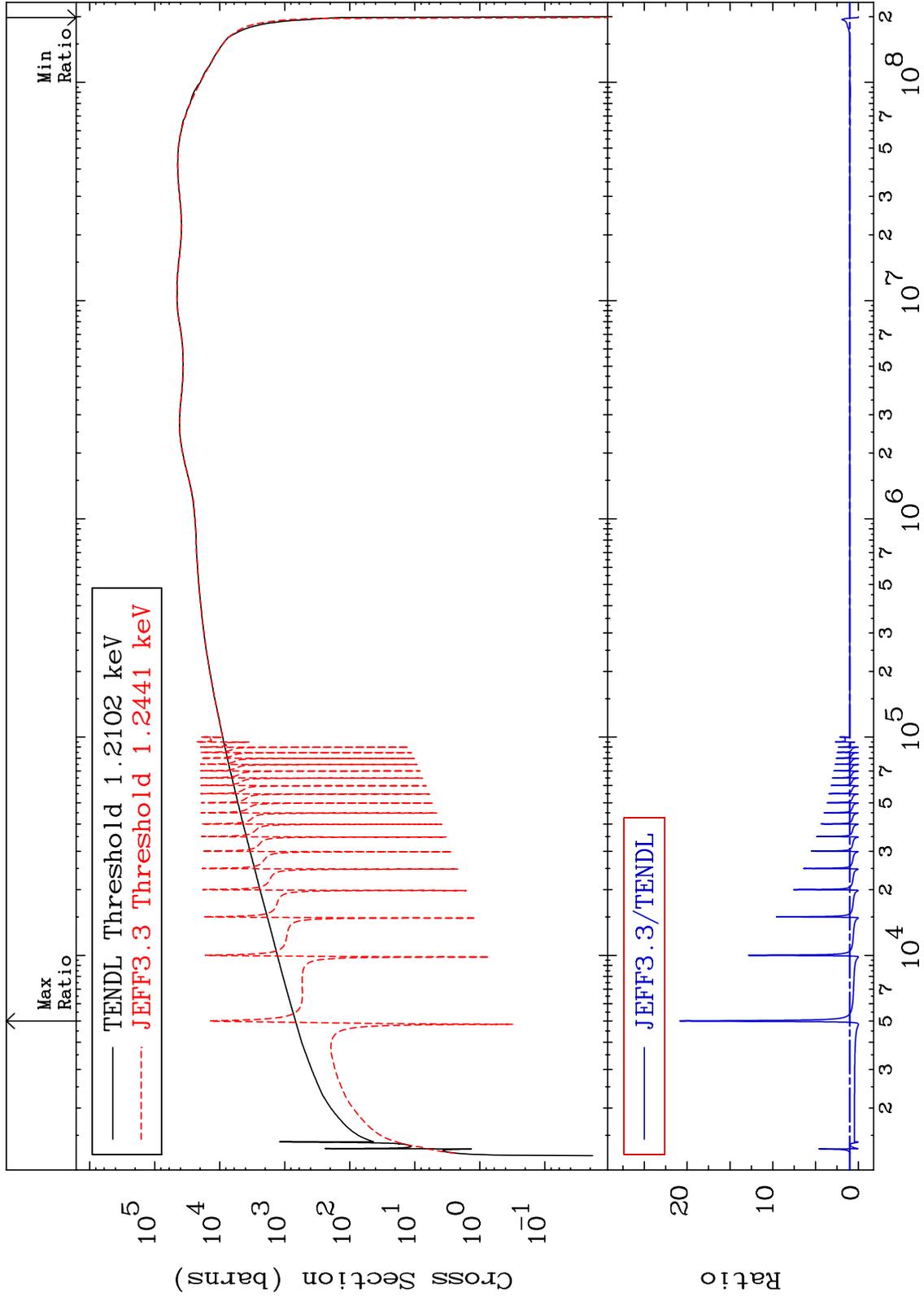
Incident Energy (eV)

82-Pb-205

MAT 8228

Dpa elastic (mt2)
Cross Section

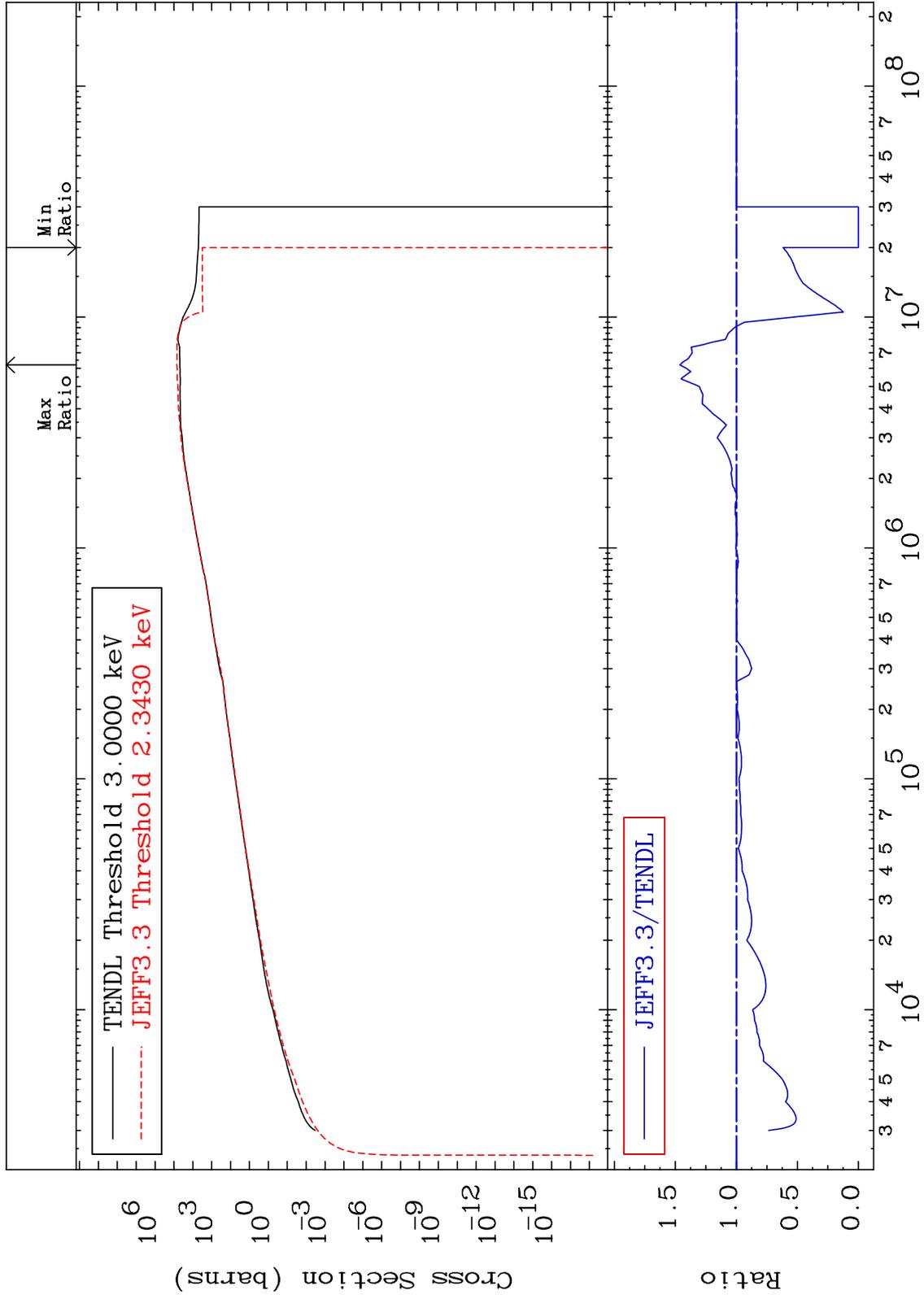
82-Pb-205
-100.0 To 1984. %



MAT 8228

Dpa inelastic (mt51-91)
Cross Section

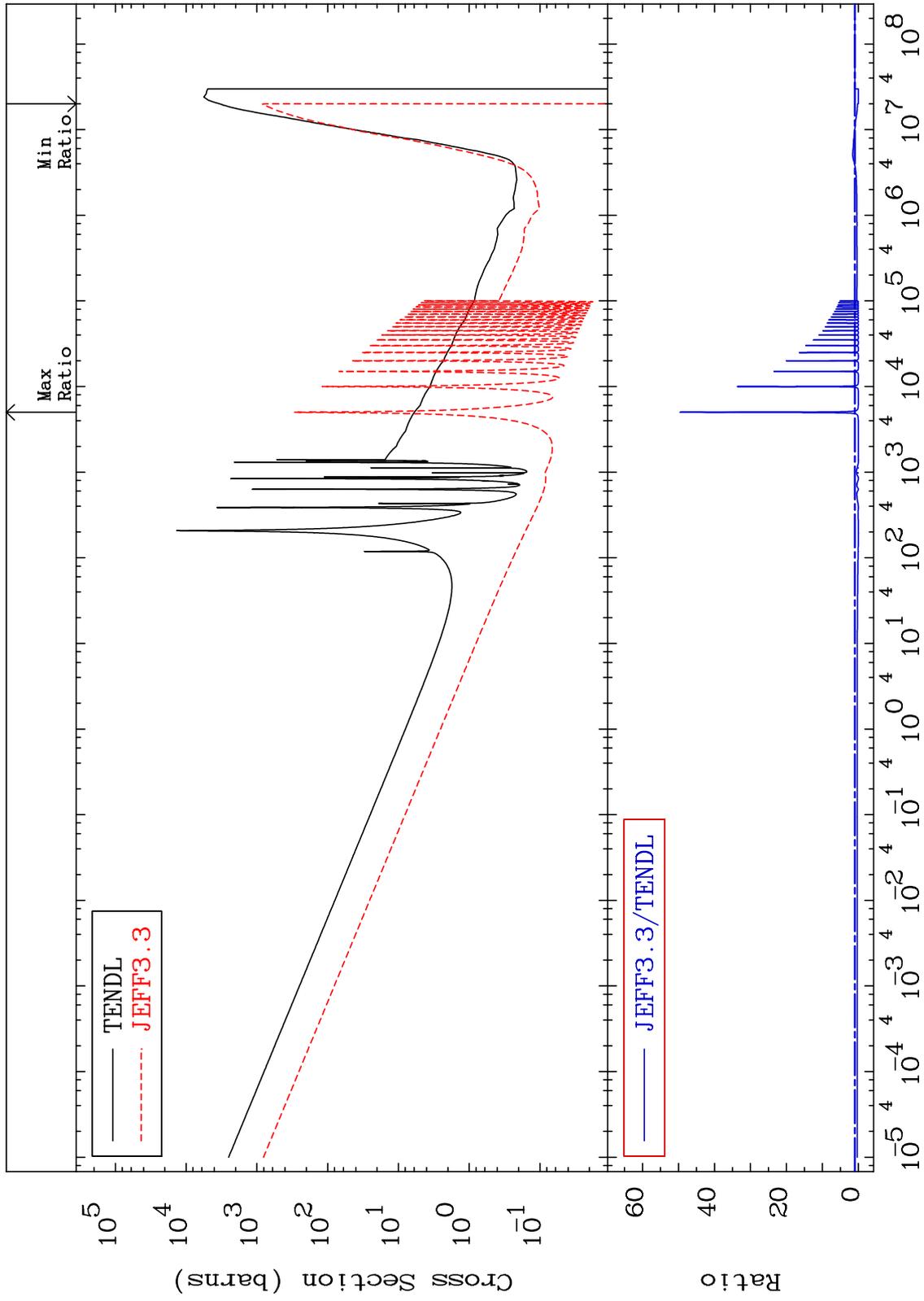
82-Pb-205
-100.0 To 46.24 %



MAT 8228

Dpa disappearance (mt102 -120)
Cross Section

82-Pb-205
-100.0 To 4859. %



56

Incident Energy (eV)

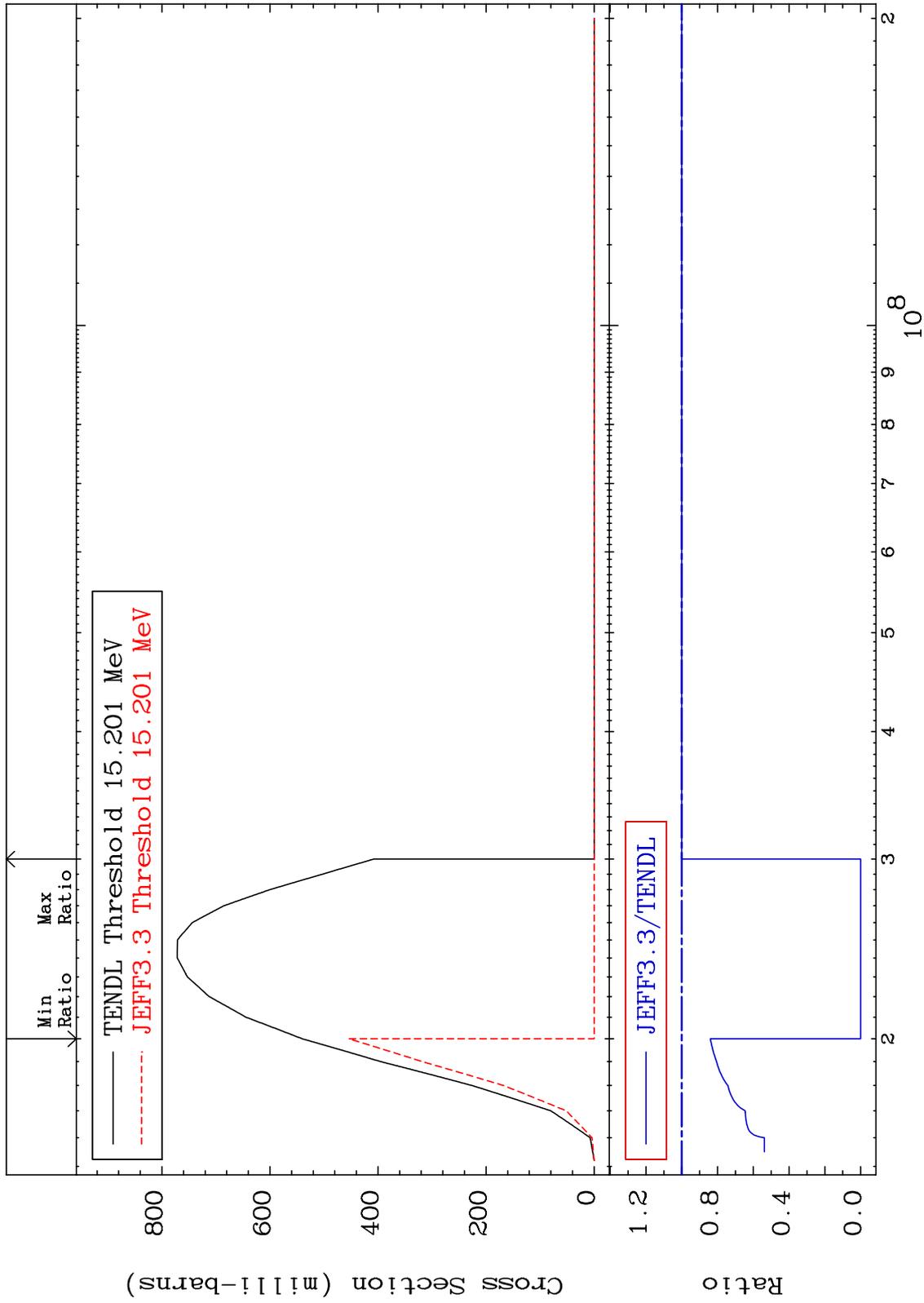
82-Pb-205

MAT 8228

(n,3n):82-Pb-203g

82-Pb-205

Radionuclide Production Cross Section -100.0 To 0.000 %

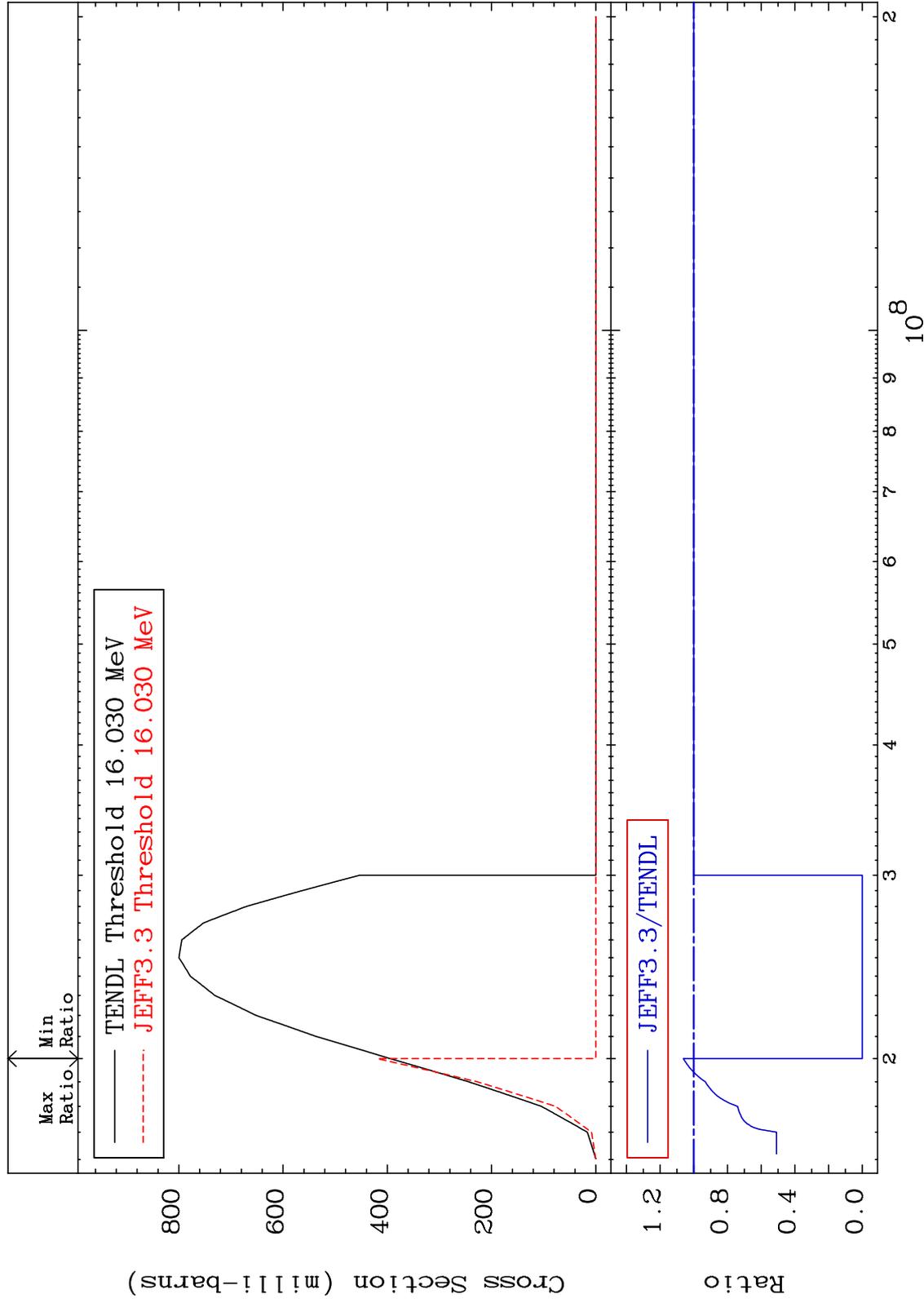


MAT 8228

(n, 3n): 82-Pb-203m6

82-Pb-205

Radionuclide Production Cross Section -100.0 To 6.194 %



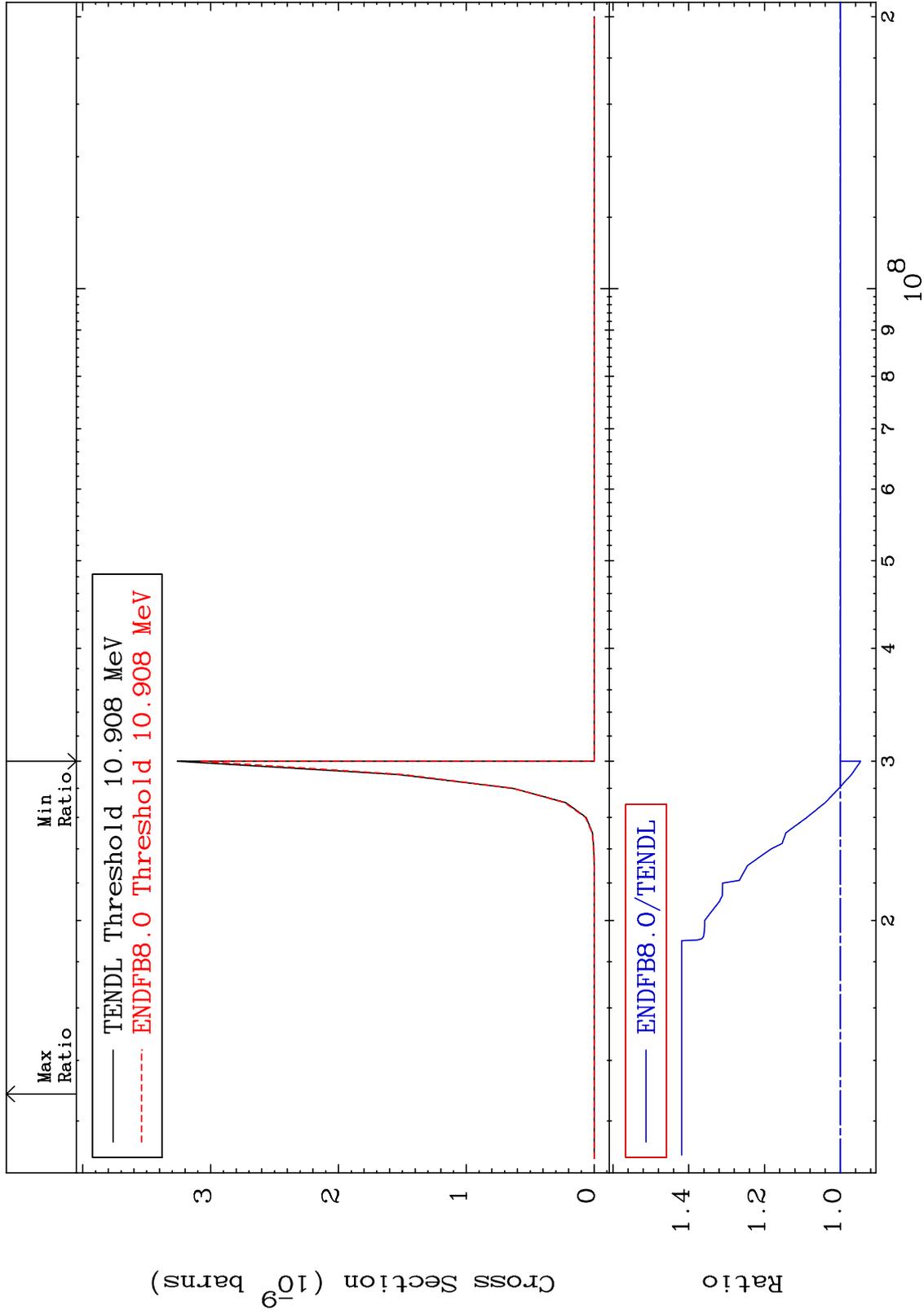
MAT 8228

(n,p) d

82-Pb-205

Cross Section

-5.341 To 41.85 %



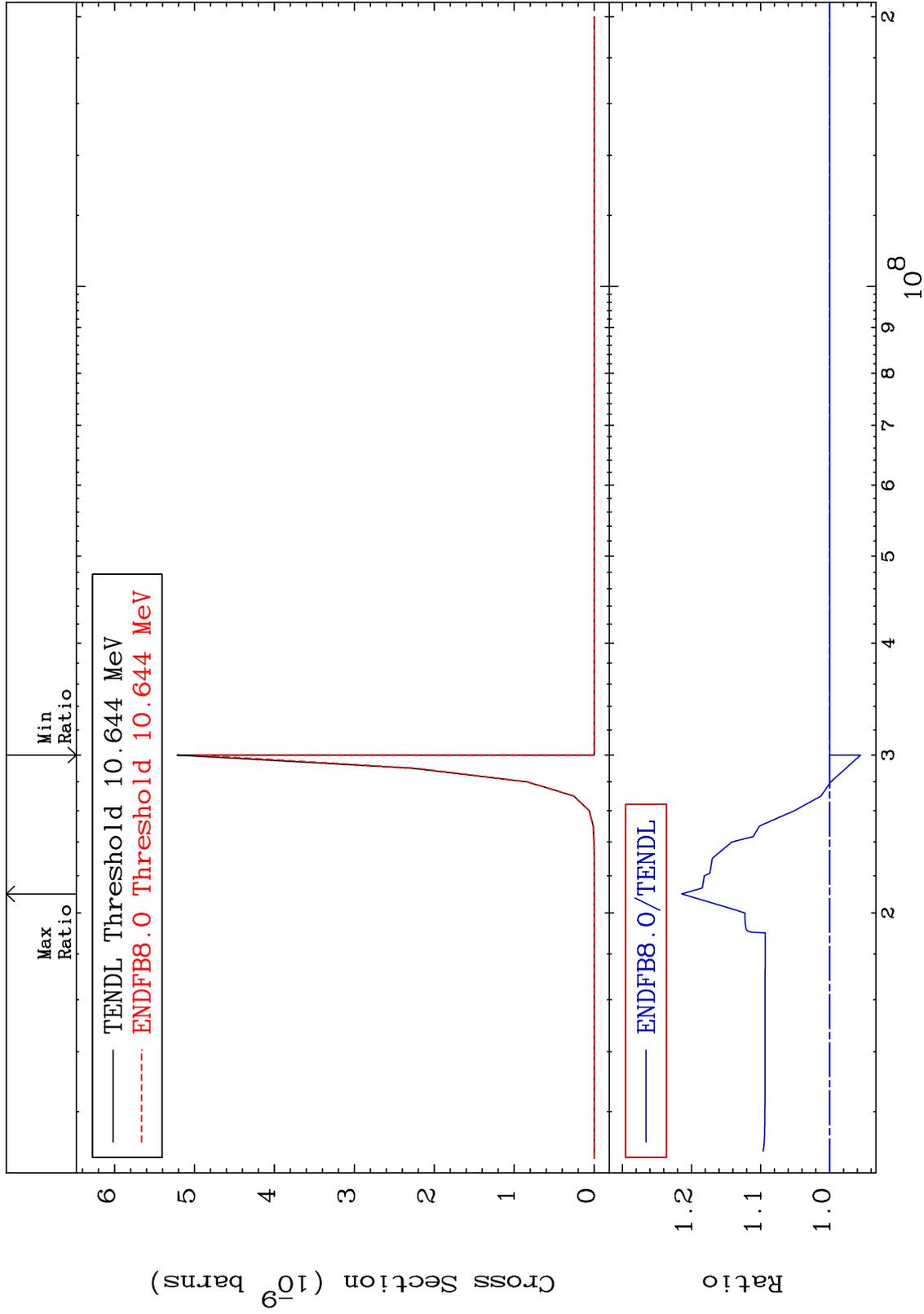
MAT 8228

(n,p) t

82-Pb-205

Cross Section

-4.481 To 21.40 %



60

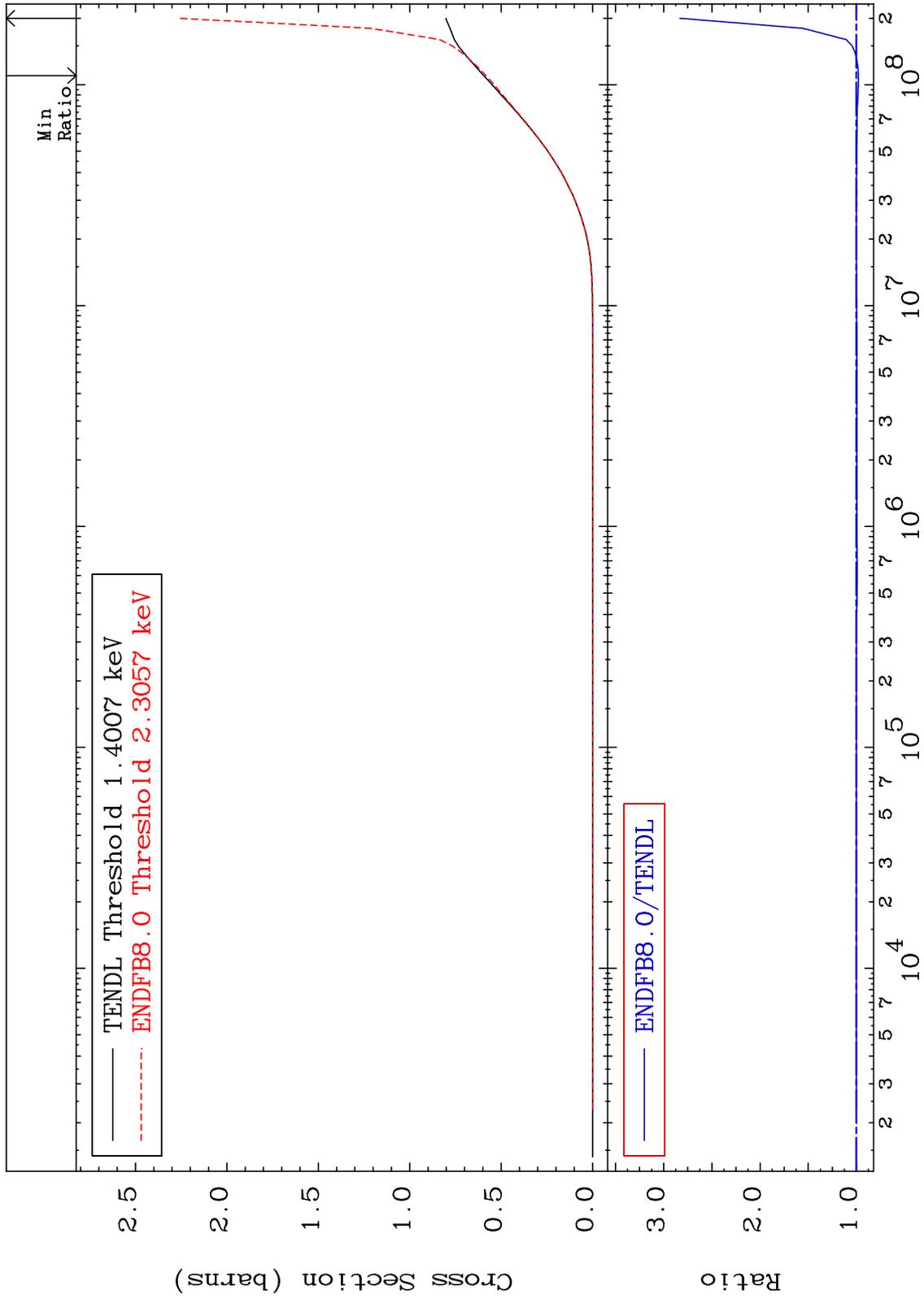
Incident Energy (eV)

82-Pb-205

MAT 8228

Hydrogen Production
Cross Section

82-Pb-205
-2.034 To 183.1 %



61

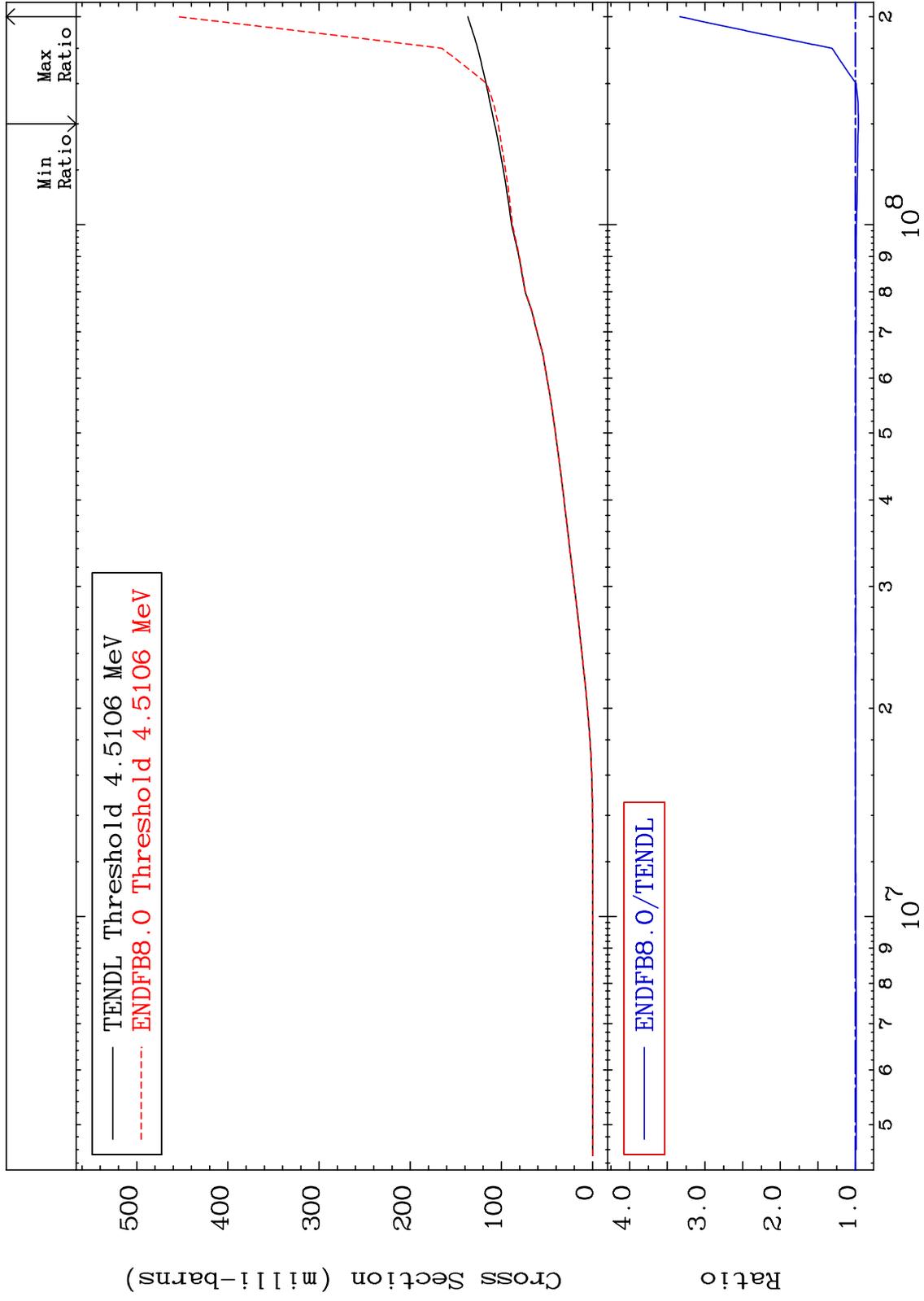
Incident Energy (eV)

82-Pb-205

MAT 8228

Deuterium Production
Cross Section

82-Pb-205
-3.707 To 233.2 %



62

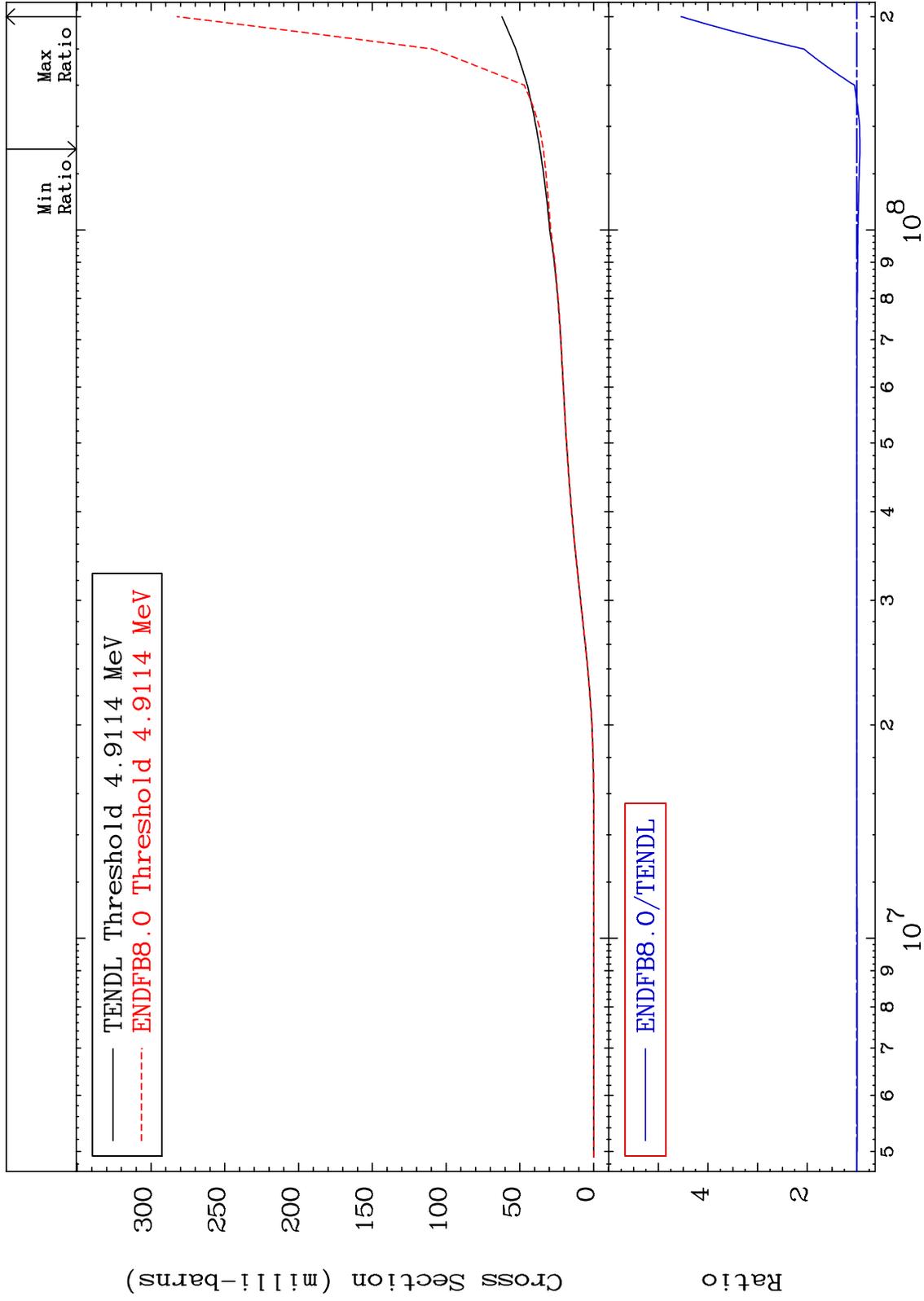
Incident Energy (eV)

82-Pb-205

MAT 8228

Tritium Production
Cross Section

82-Pb-205
-6.245 To 354.1 %



63

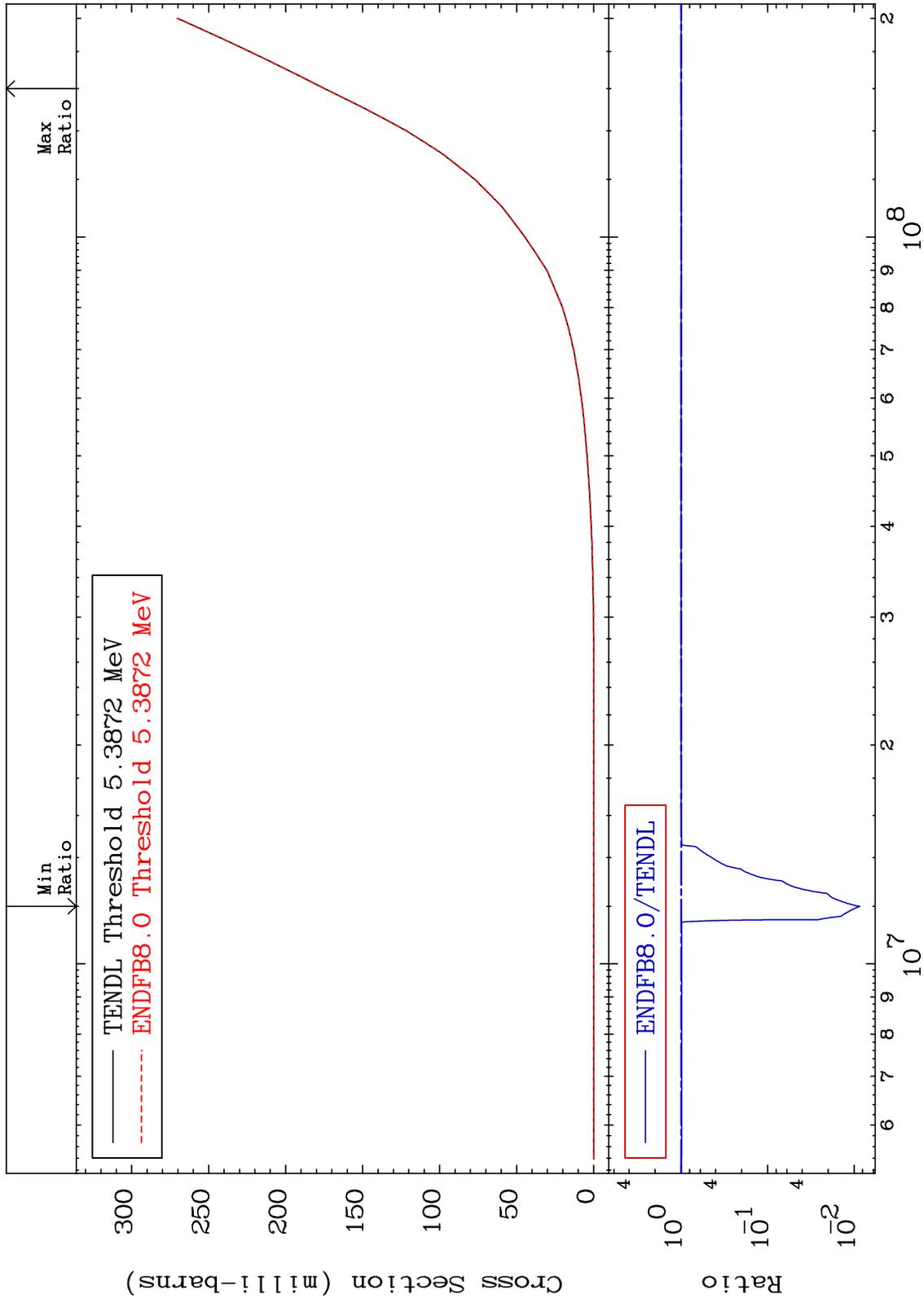
Incident Energy (eV)

82-Pb-205

MAT 8228

He-3 Production
Cross Section

82-Pb-205
-99.14 To 0.101 %



64

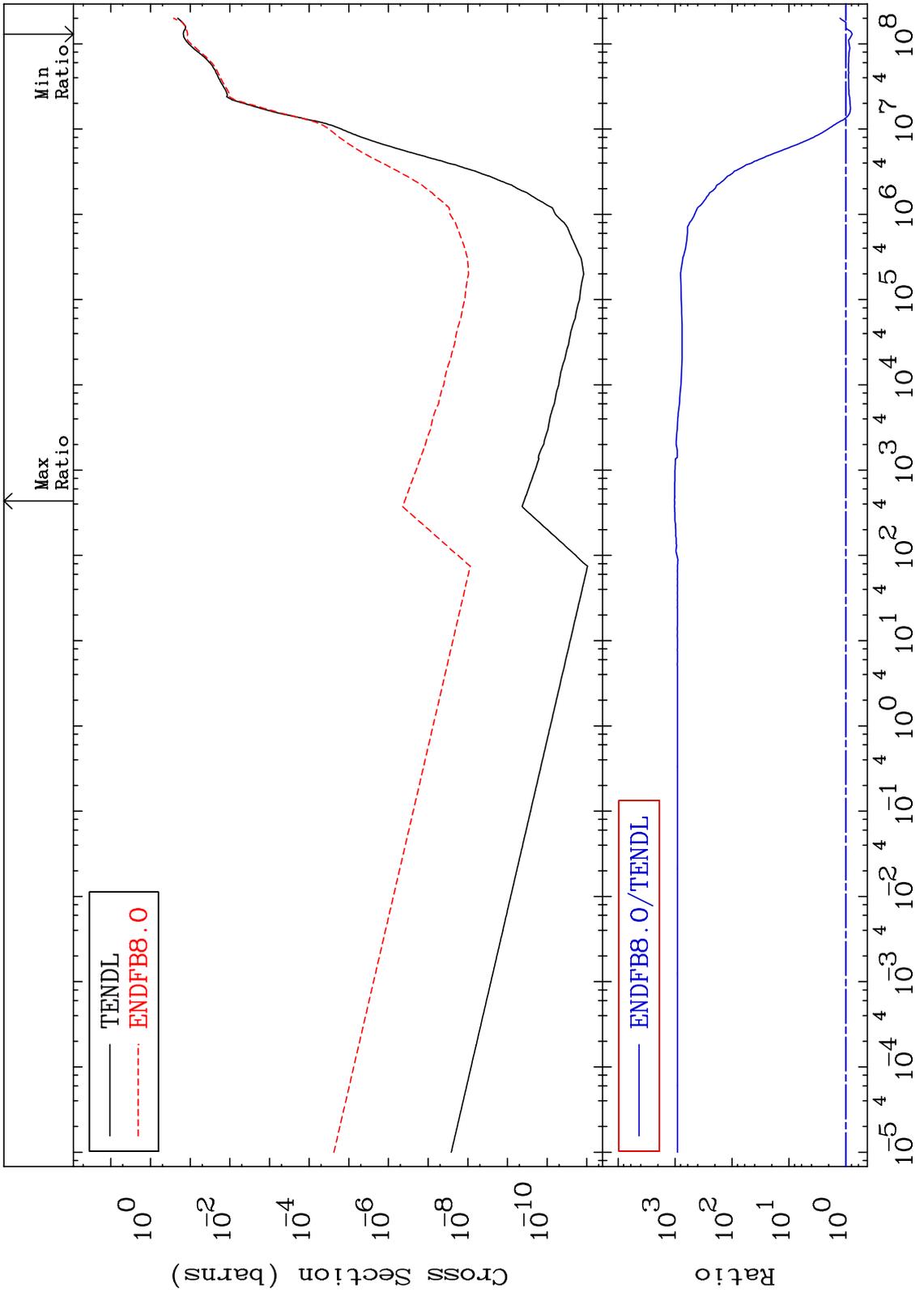
Incident Energy (eV)

82-Pb-205

MAT 8228

He-4 Production
Cross Section

82-Pb-205
-22.51 To 9999. %



65

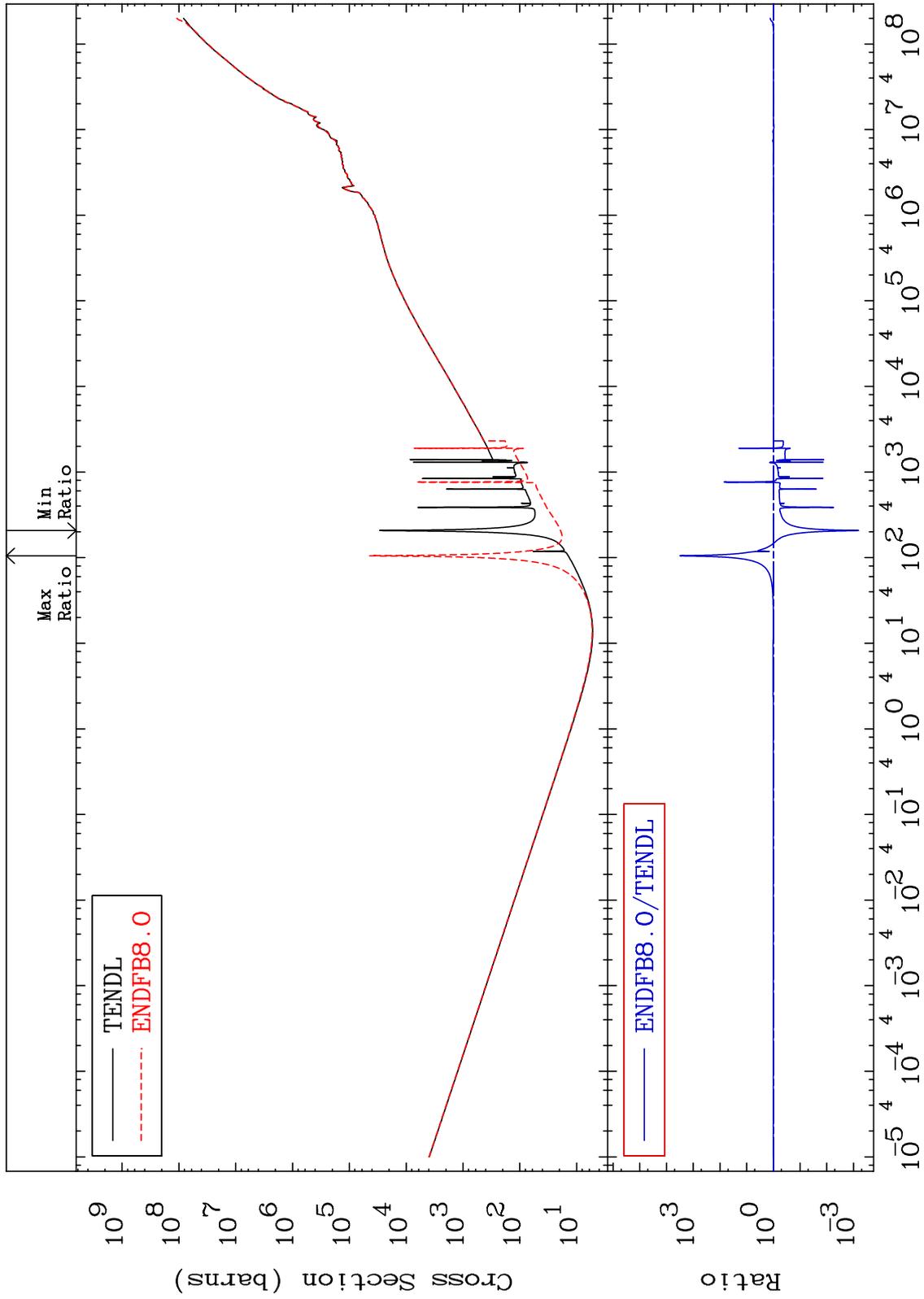
Incident Energy (eV)

82-Pb-205

MAT 8228

Kerma total (eV-barns)
Cross Section

82-Pb-205
-99.93 To 9999. %



66

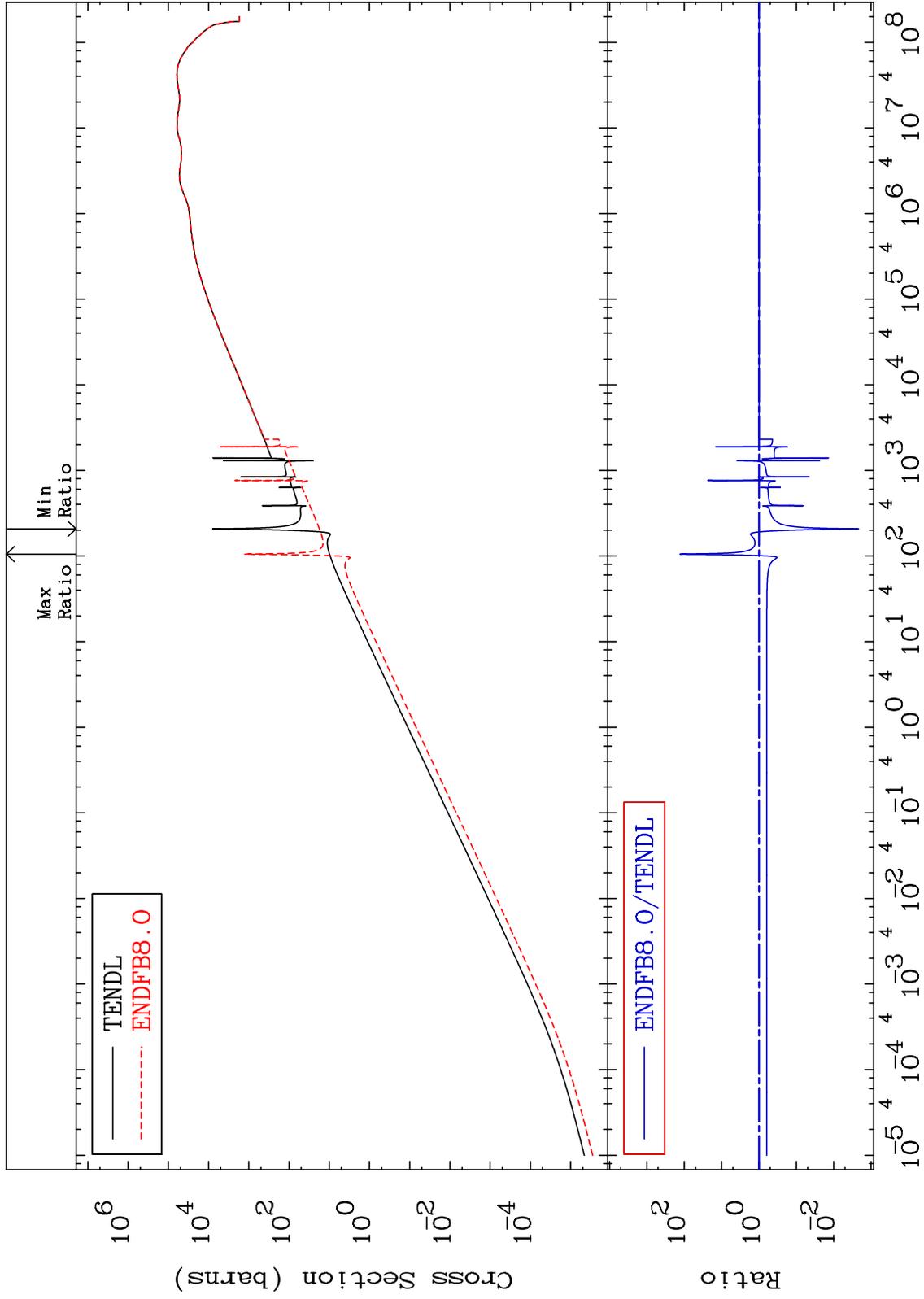
Incident Energy (eV)

82-Pb-205

MAT 8228

Kerma elastic
Cross Section

82-Pb-205
-99.78 To 9999. %



67

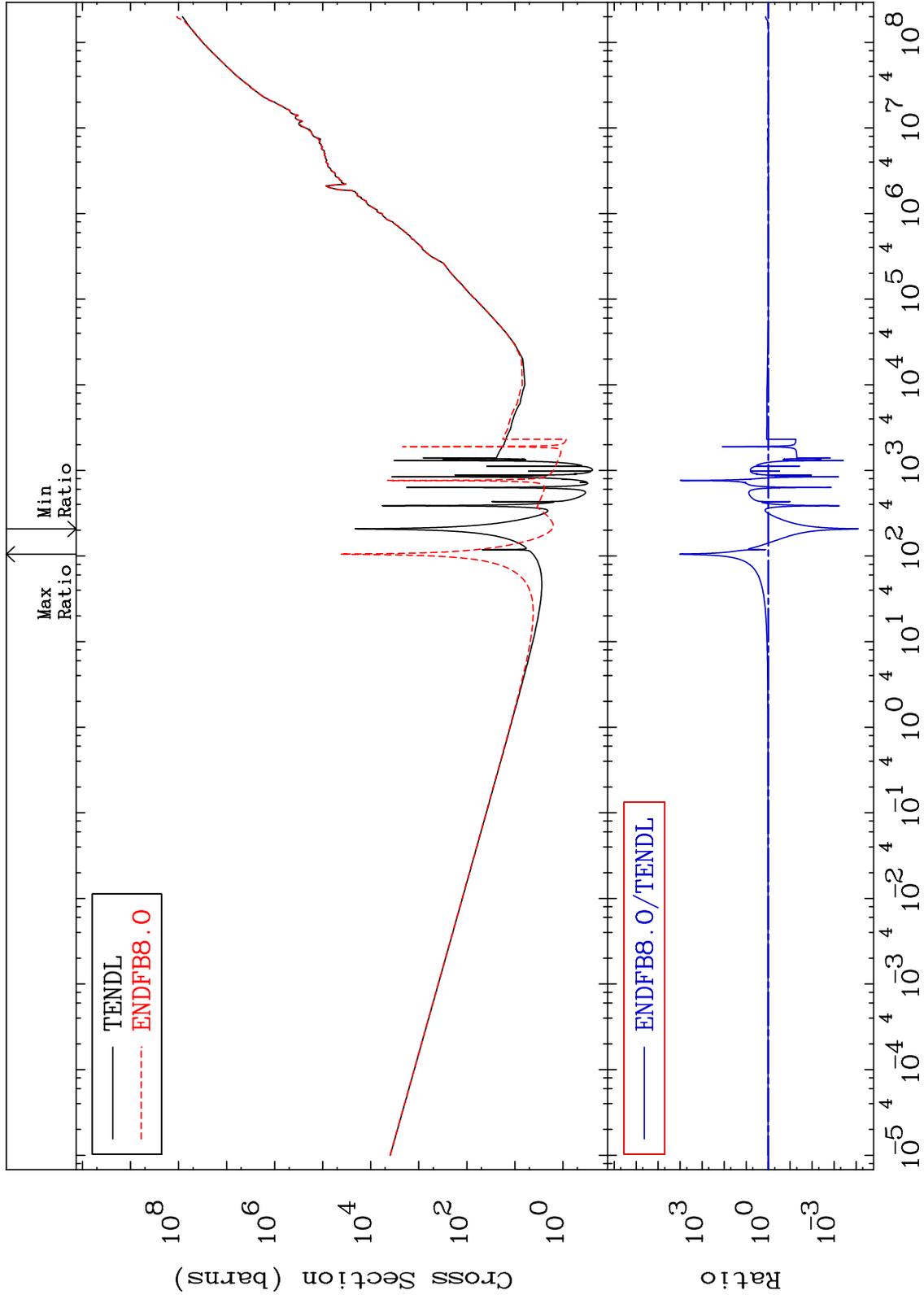
Incident Energy (eV)

82-Pb-205

MAT 8228

Kerma non-elastic (all but mt2)
Cross Section

82-Pb-205
-99.99 To 9999. %



68

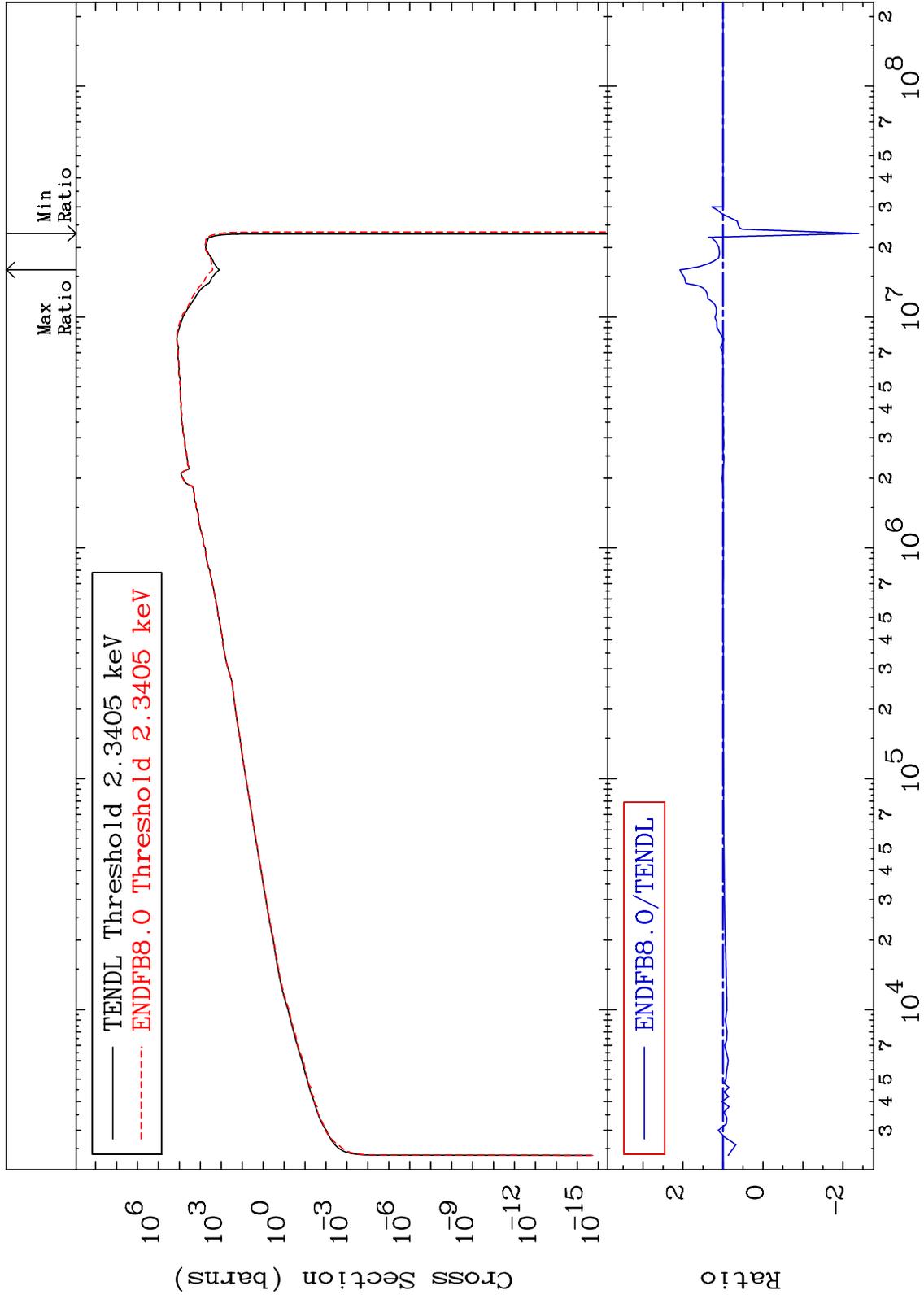
Incident Energy (eV)

82-Pb-205

MAT 8228

Kerma inelastic (mt51-91)
Cross Section

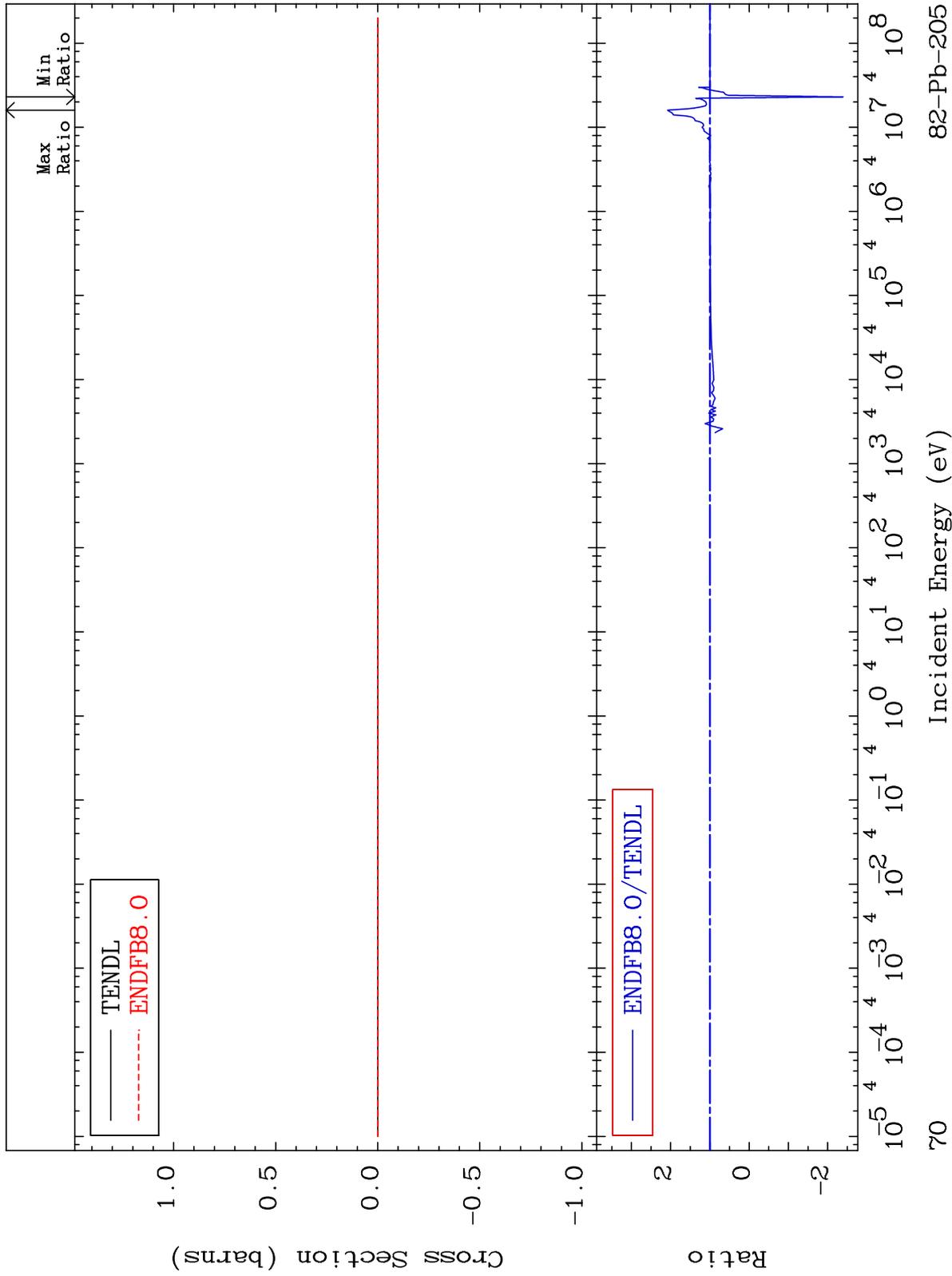
82-Pb-205
-338.8 To 107.7 %



MAT 8228

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

82-Pb-205
-338.8 To 107.7 %



82-Pb-205

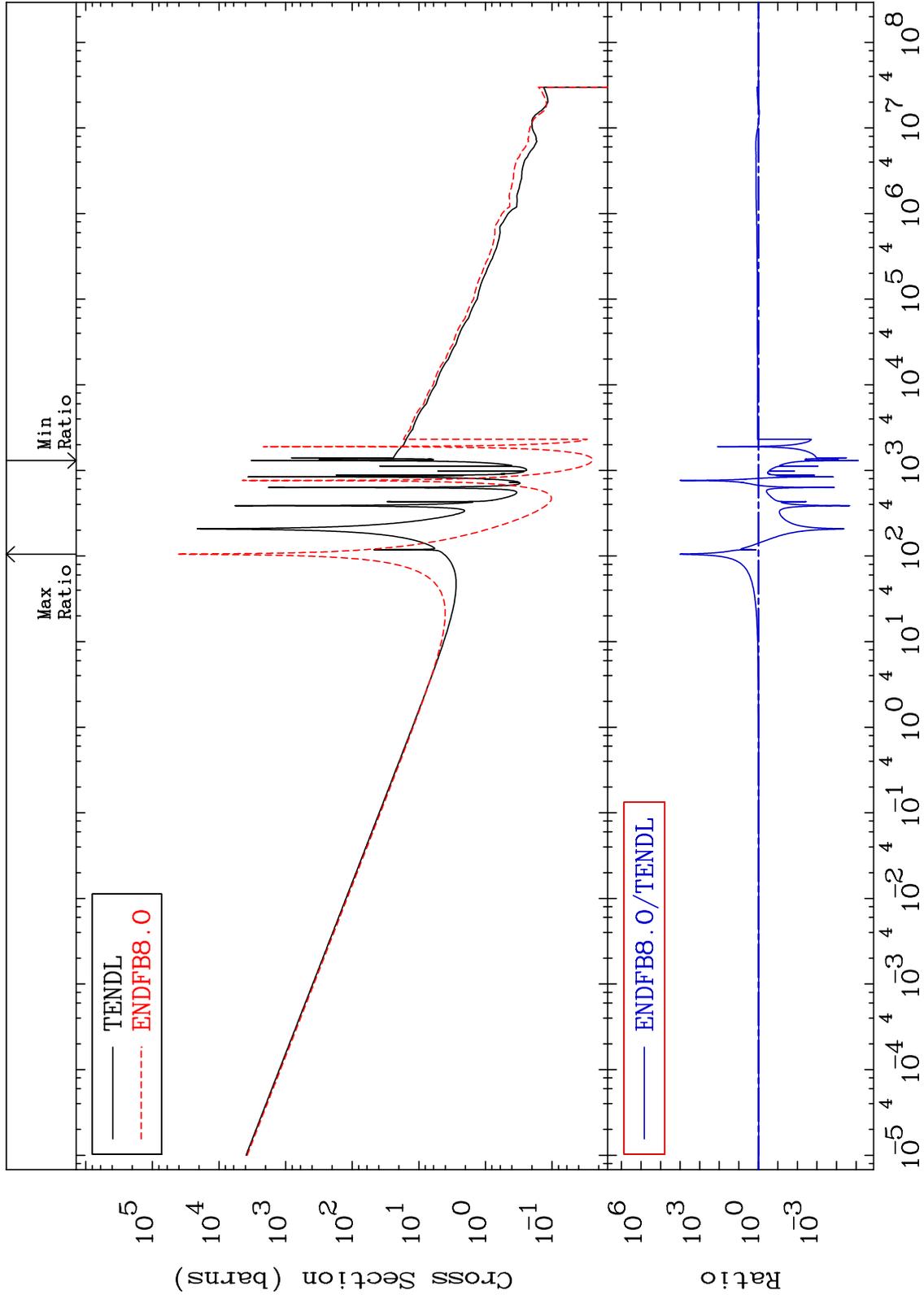
Incident Energy (eV)

70

MAT 8228

Kerma capture (mt102)
Cross Section

82-Pb-205
-100.0 To 9999. %



71

Incident Energy (eV)

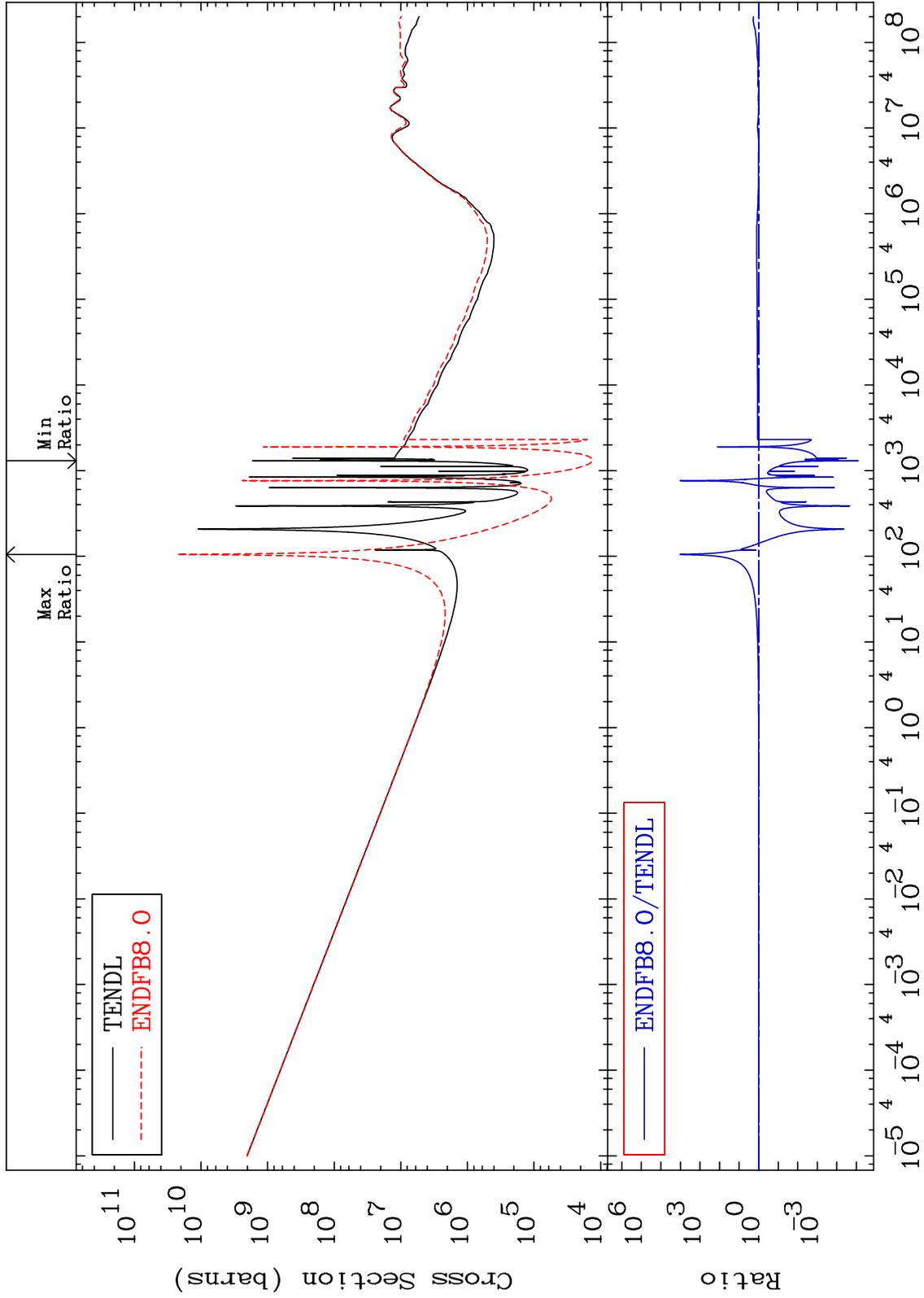
82-Pb-205

MAT 8228

Total photon (eV-barns)
Cross Section

82-Pb-205

-100.0 To 9999. %



72

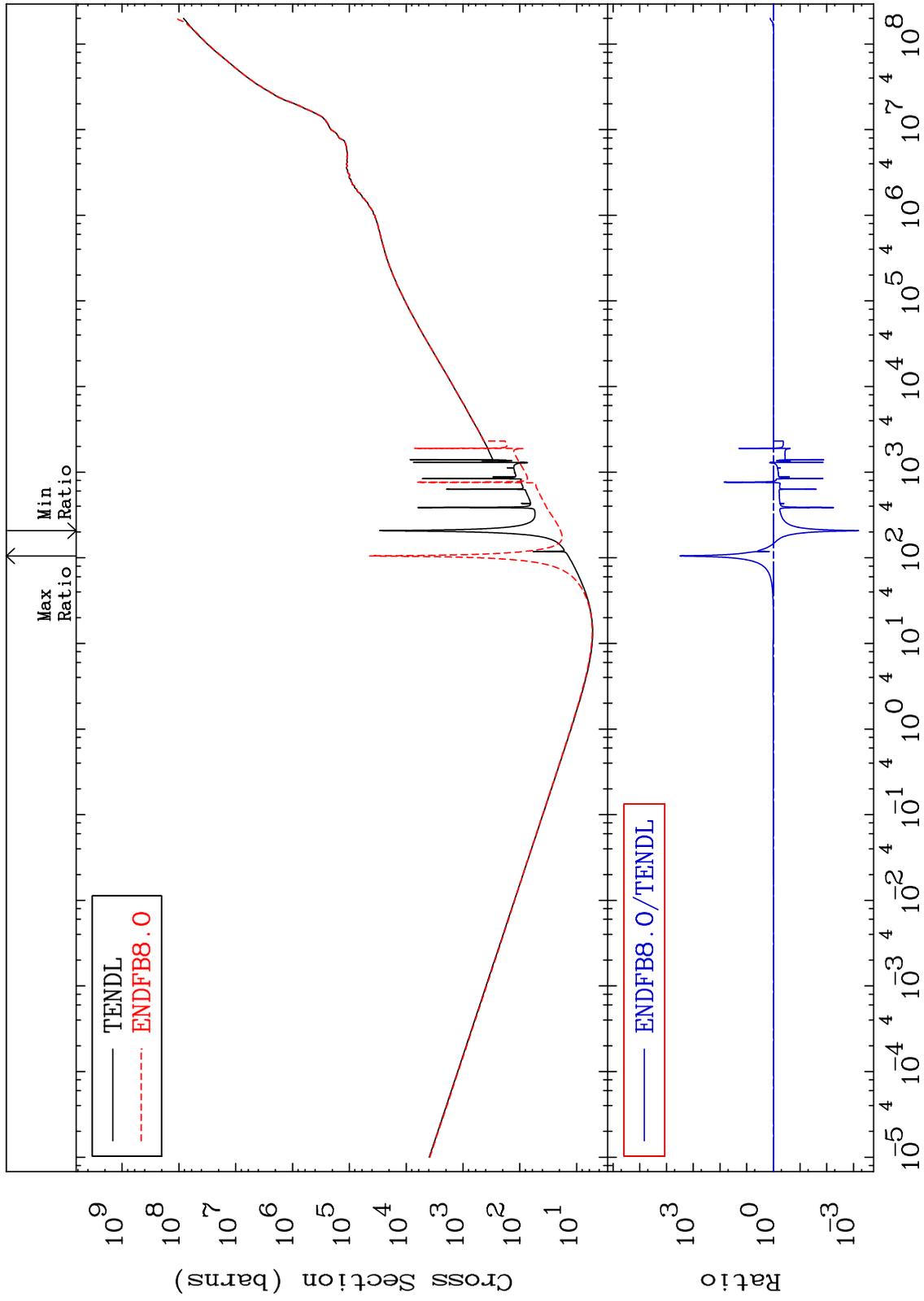
Incident Energy (eV)

82-Pb-205

MAT 8228

Total kinematic kerma (high limit)
Cross Section

82-Pb-205
-99.93 To 9999. %



73

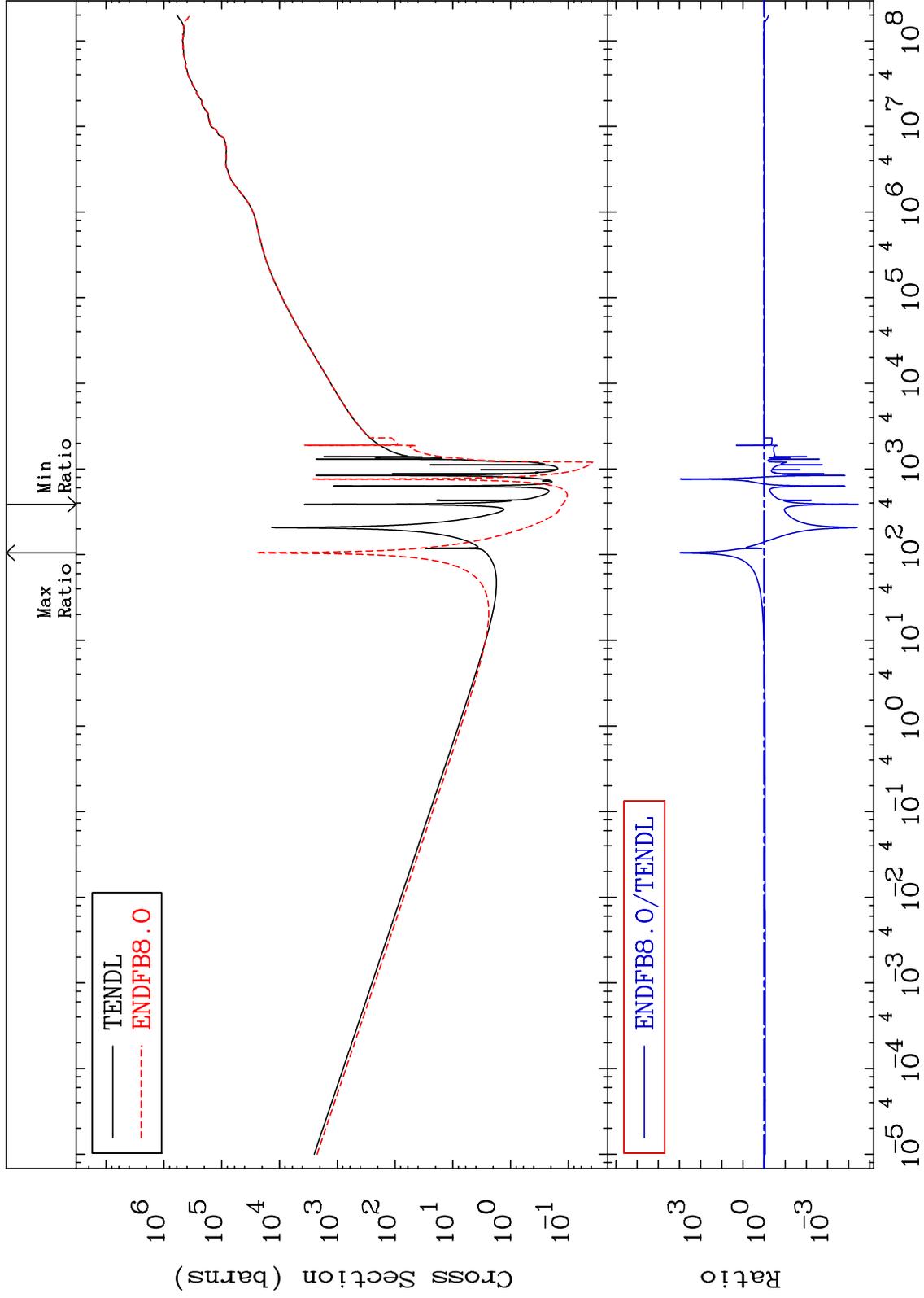
Incident Energy (eV)

82-Pb-205

MAT 8228

Dpa total (eV-barns)
Cross Section

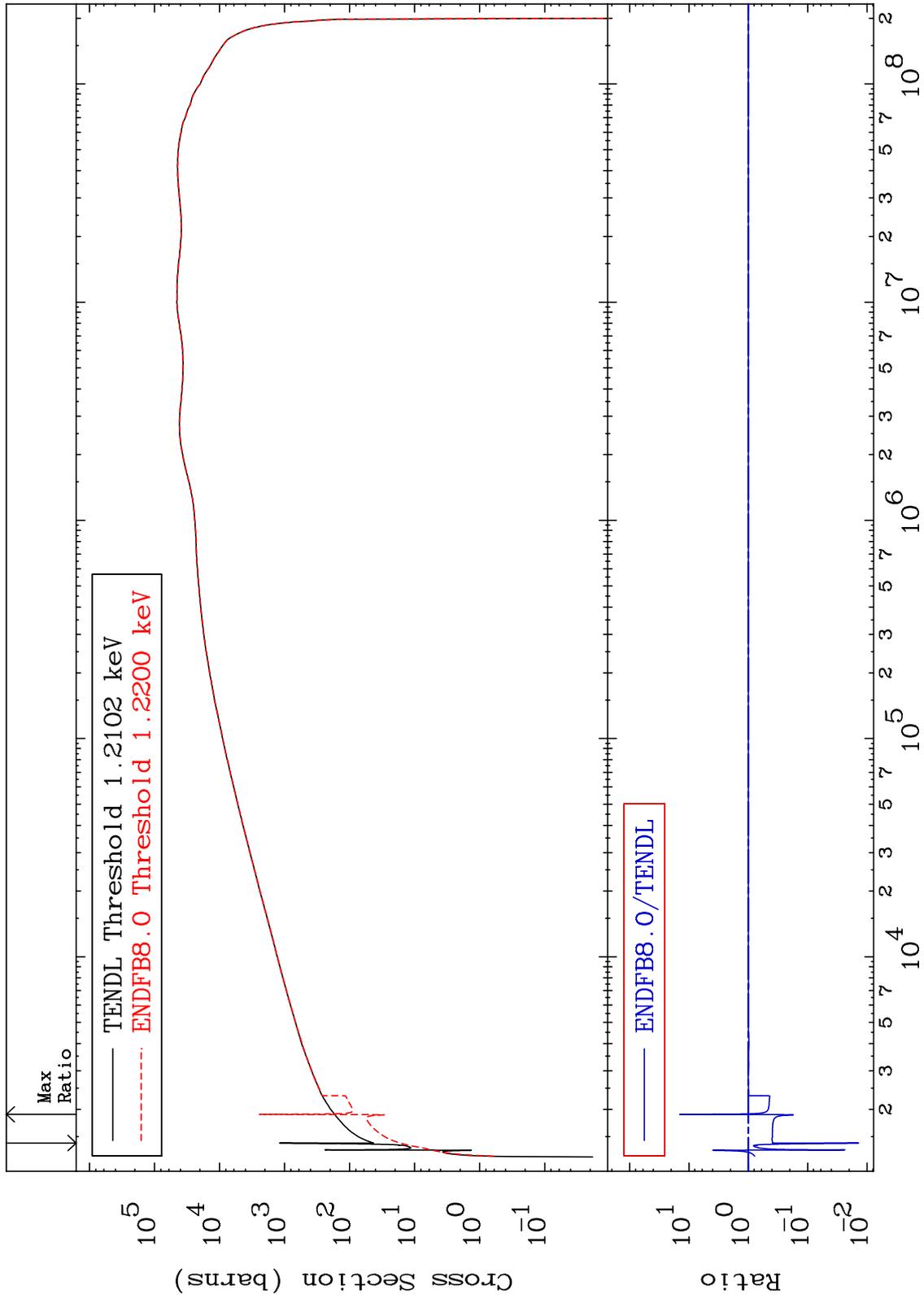
82-Pb-205
-100.0 To 9999. %



MAT 8228

Dpa elastic (mt2)
Cross Section

82-Pb-205
-98.60 To 1325. %



75

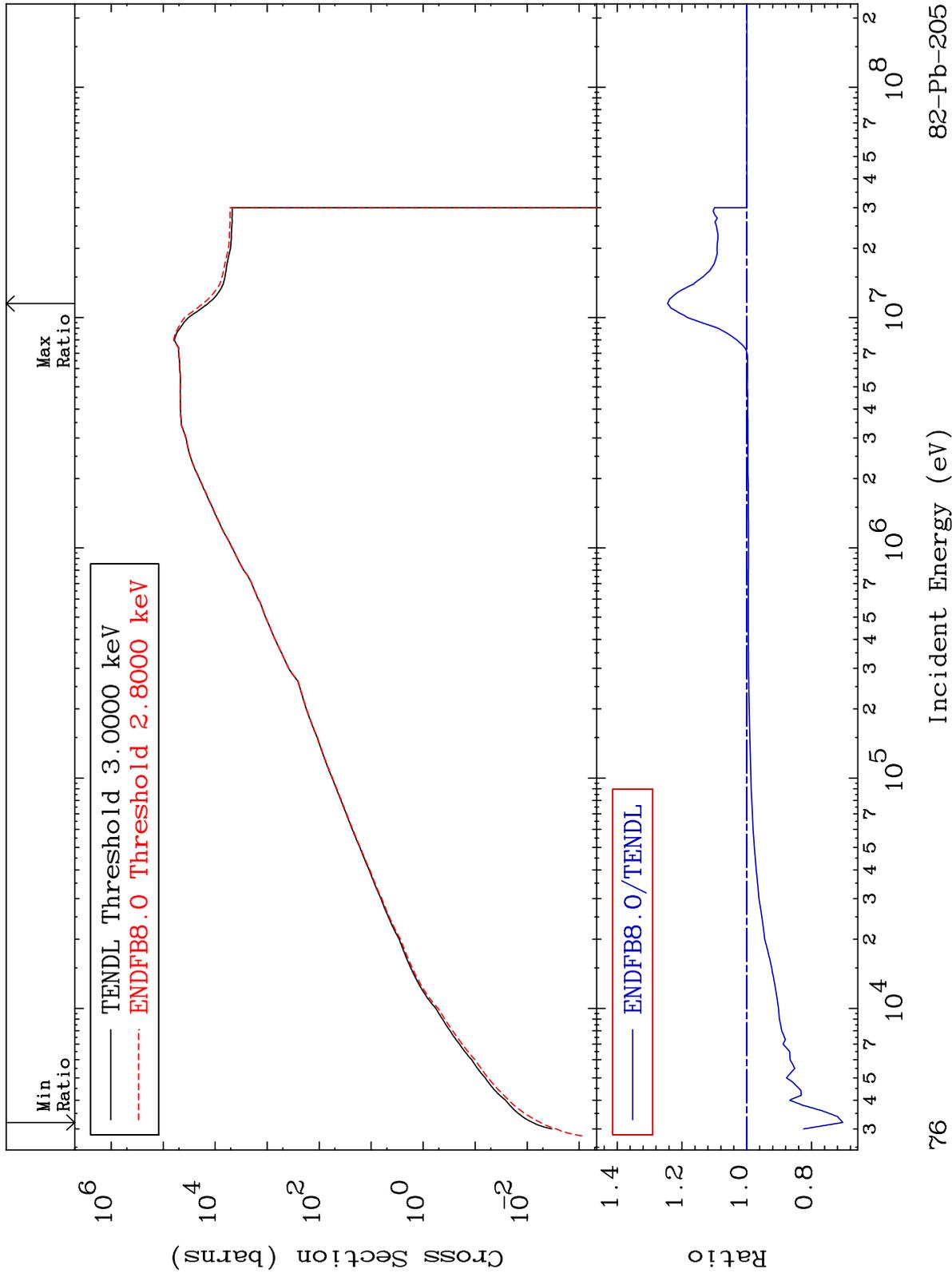
Incident Energy (eV)

82-Pb-205

MAT 8228

Dpa inelastic (mt51-91)
Cross Section

82-Pb-205
-29.65 To 24.43 %



76

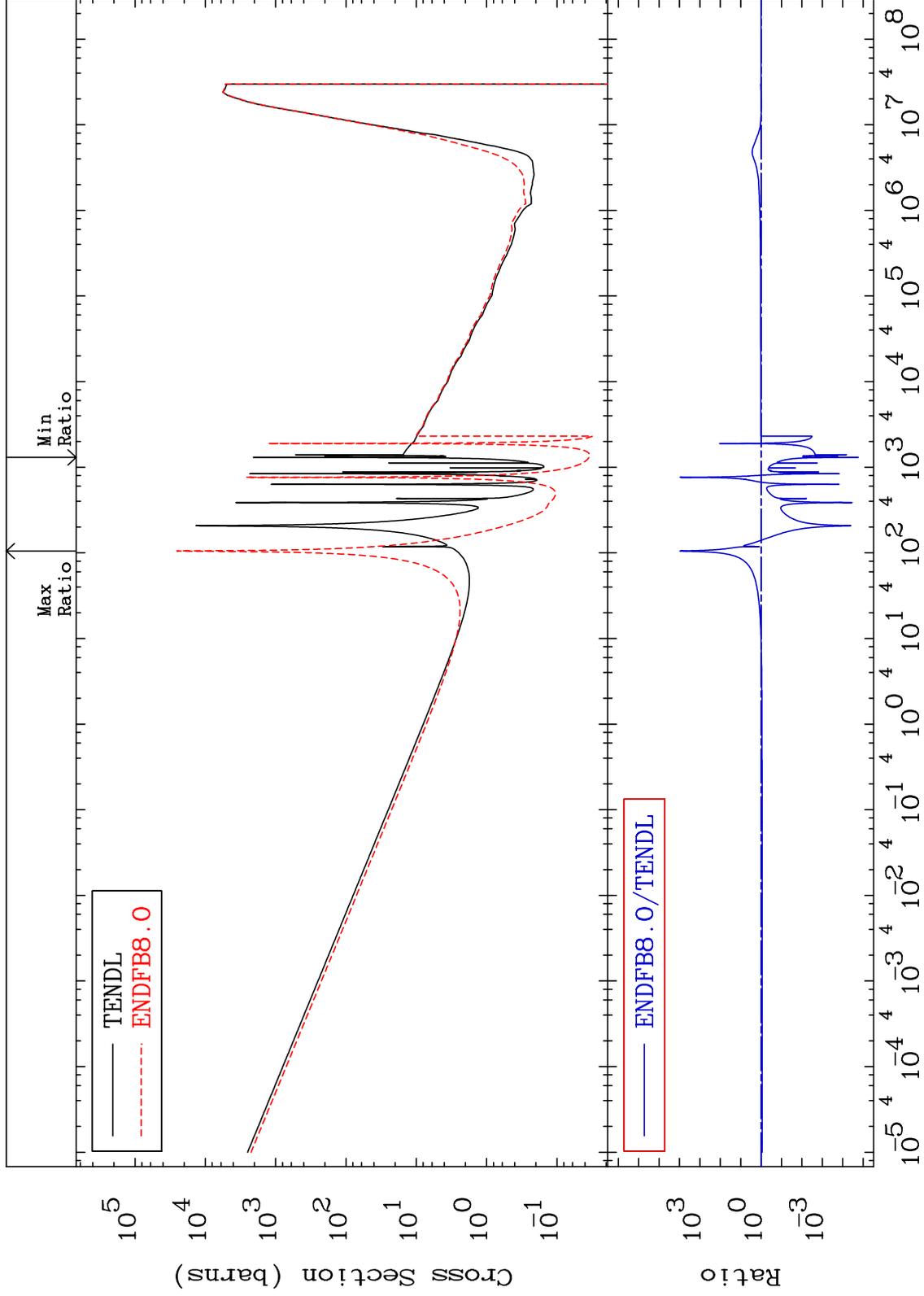
82-Pb-205

MAT 8228

Dpa disappearance (mt102 -120)

82-Pb-205

-100.0 To 9999. %



77

Incident Energy (eV)

82-Pb-205

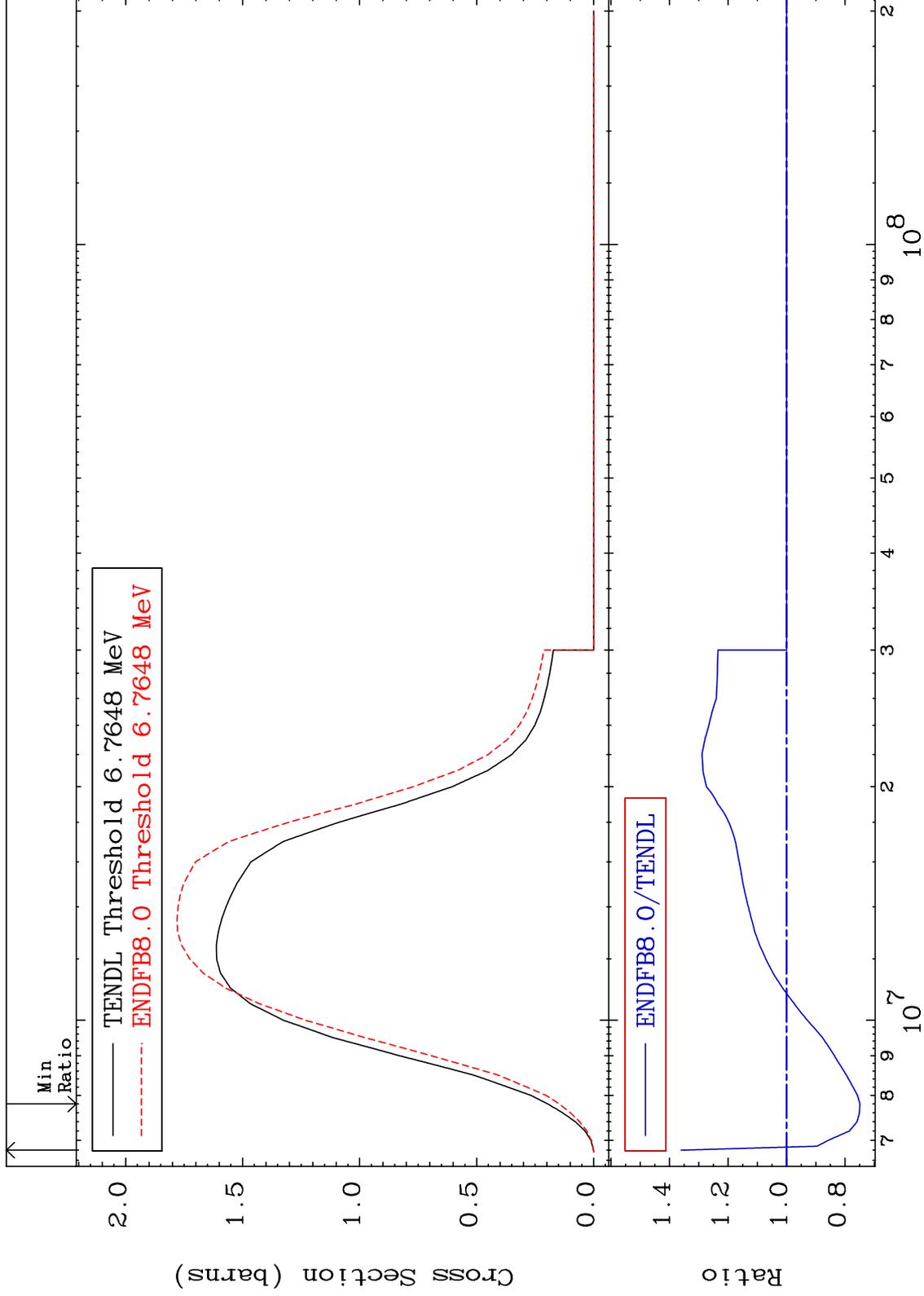
MAT 8228

(n,2n):82-Pb-204g

82-Pb-205

Radionuclide Production Cross Section

-25.07 To 36.03 %



78

Incident Energy (eV)

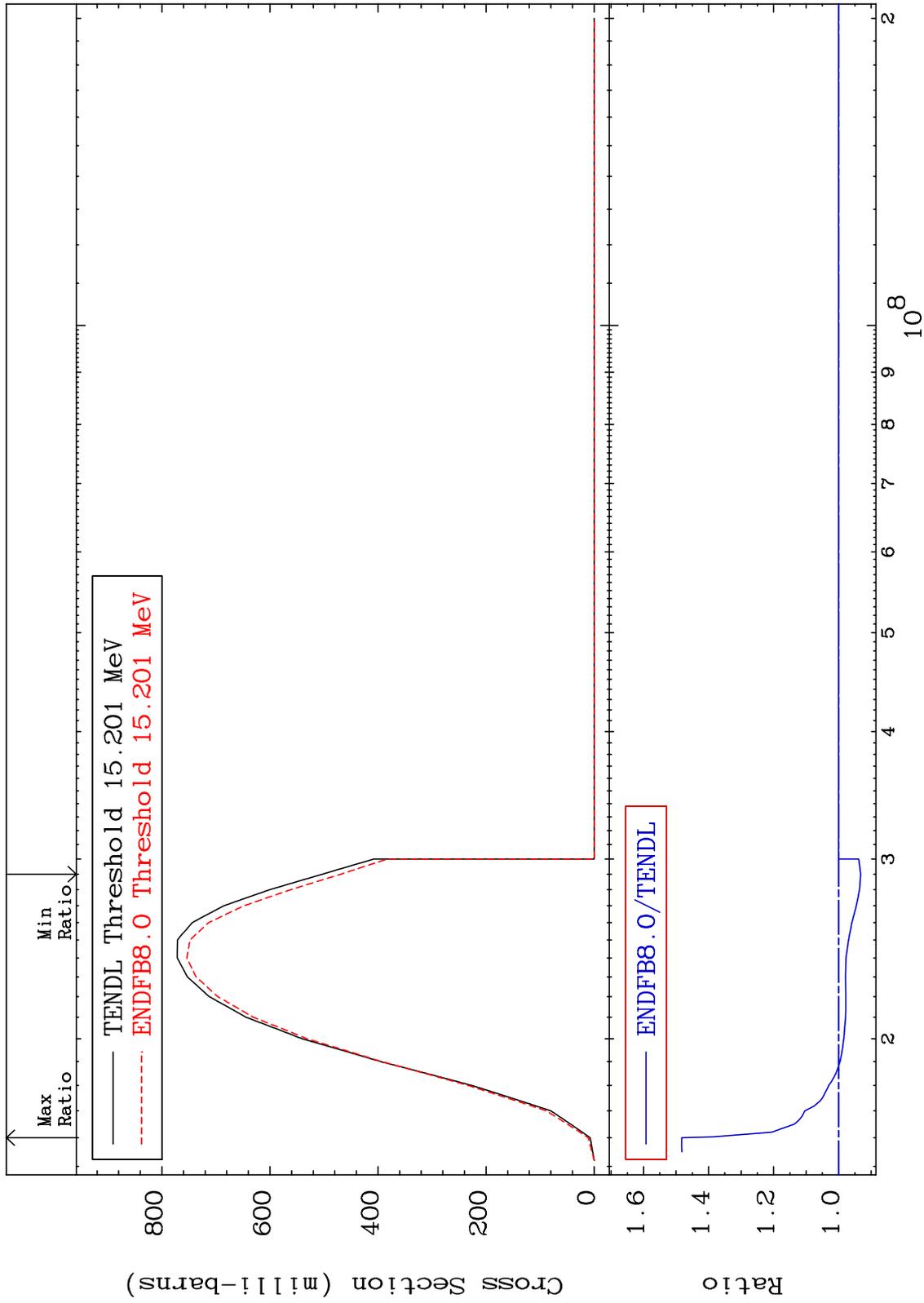
82-Pb-205

MAT 8228

(n,3n):82-Pb-203g

82-Pb-205

Radionuclide Production Cross Section -6.780 To 48.26 %



79

Incident Energy (eV)

82-Pb-205

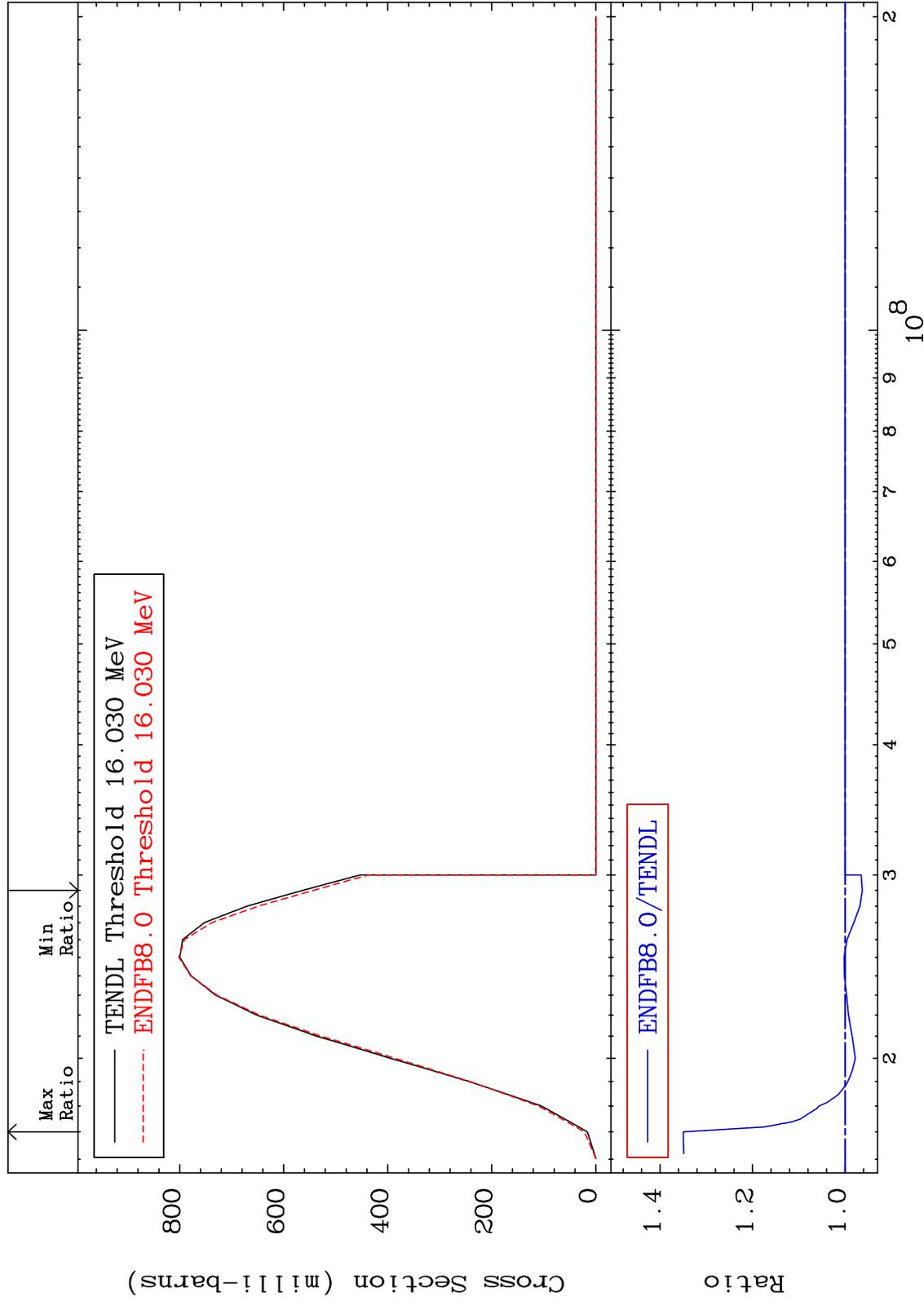
MAT 8228

(n, 3n): 82-Pb-203m6

82-Pb-205

Radionuclide Production Cross Section

-3.732 To 34.95 %



80

Incident Energy (eV)

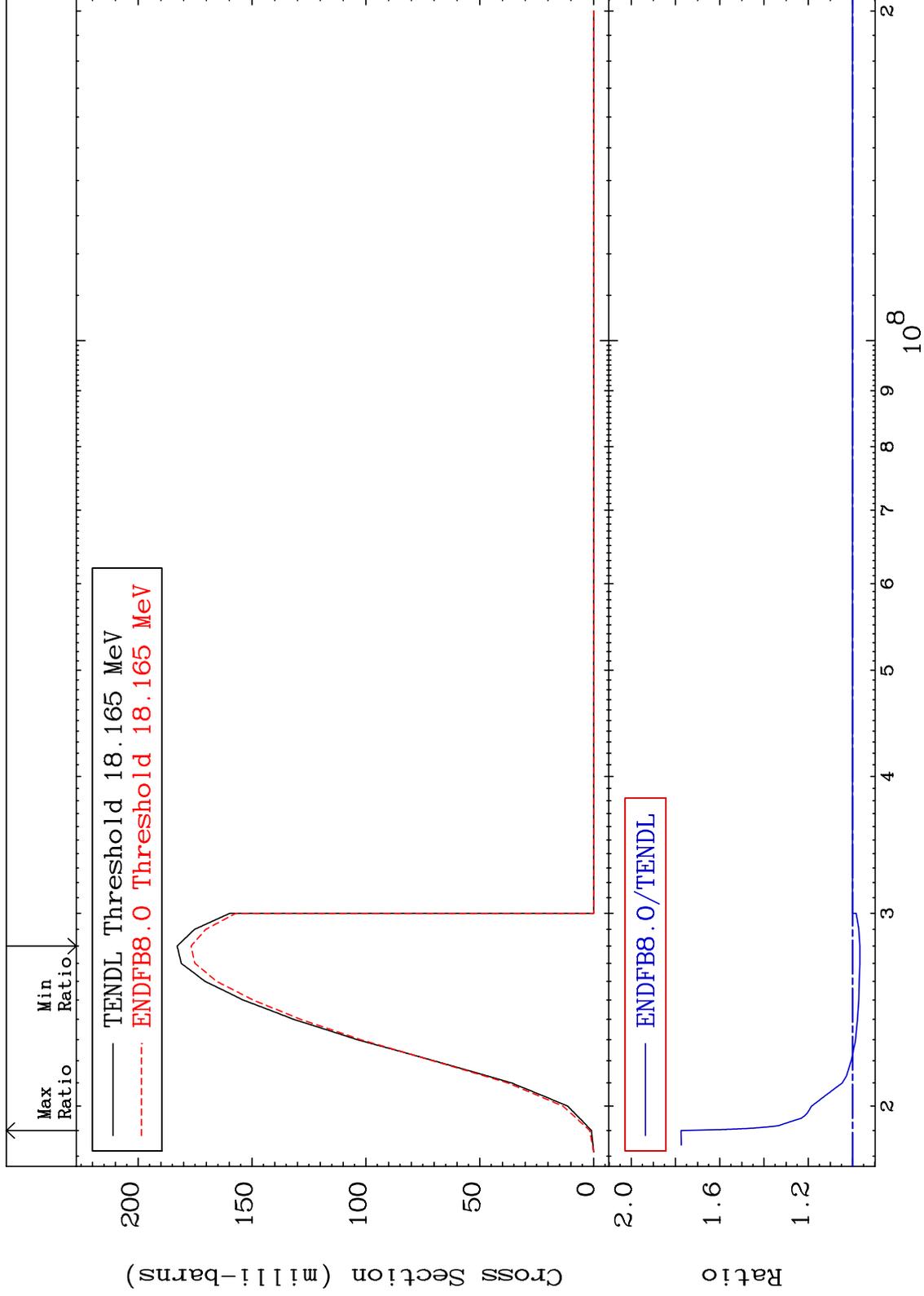
82-Pb-205

MAT 8228

(n,3n):82-Pb-203m10

82-Pb-205

Radionuclide Production Cross Section -3.330 To 77.45 %



81

Incident Energy (eV)

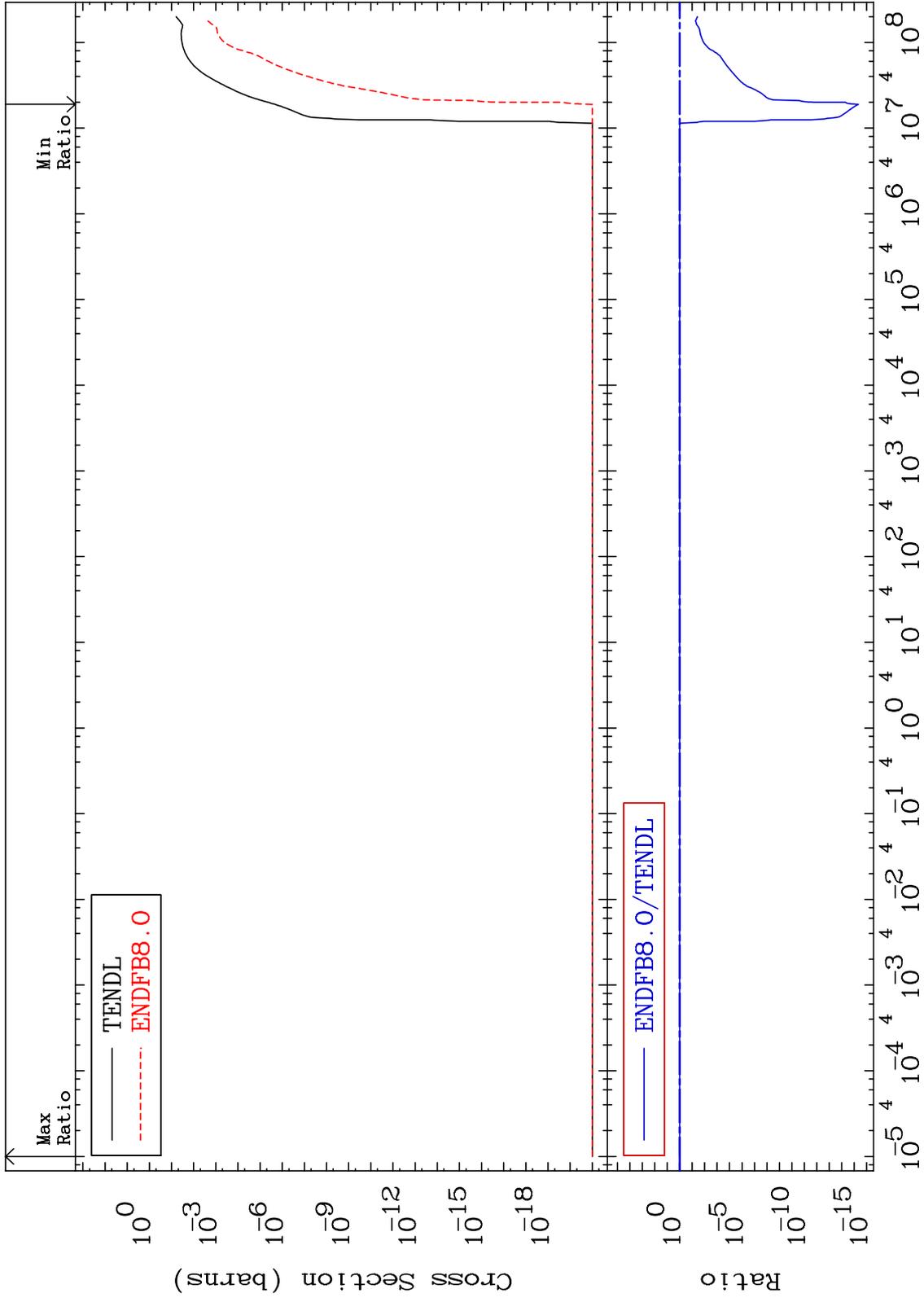
82-Pb-205

MAT 8228

Fission: 0-?-?-Nat

82-Pb-205

Radionuclide Production Cross Section -100.0 To 0.000 %



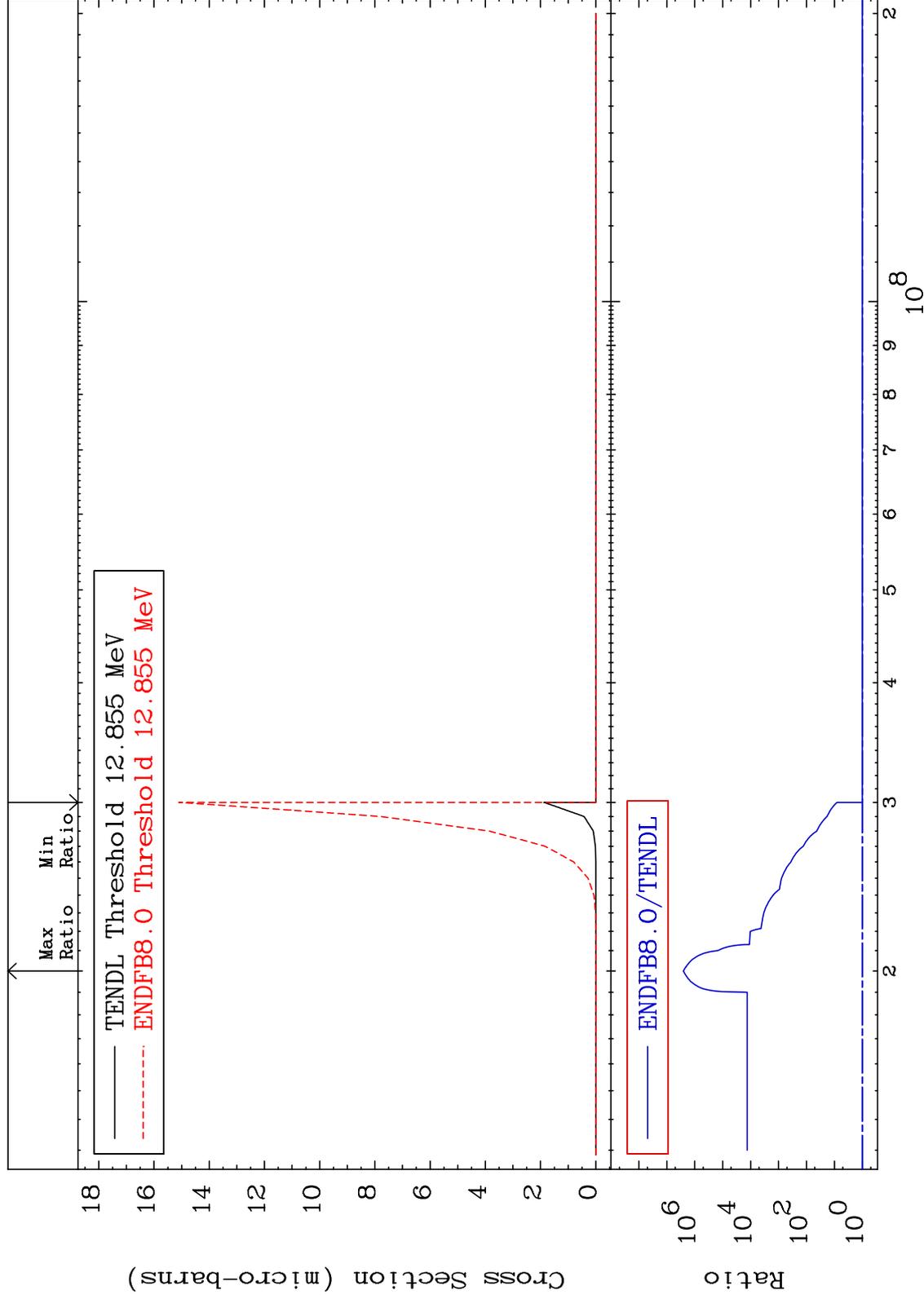
82

Incident Energy (eV)

82-Pb-205

MAT 8228

(n,3n) α :80-Hg-199g 82-Pb-205
Radionuclide Production Cross Section 0.000 To 9999. %

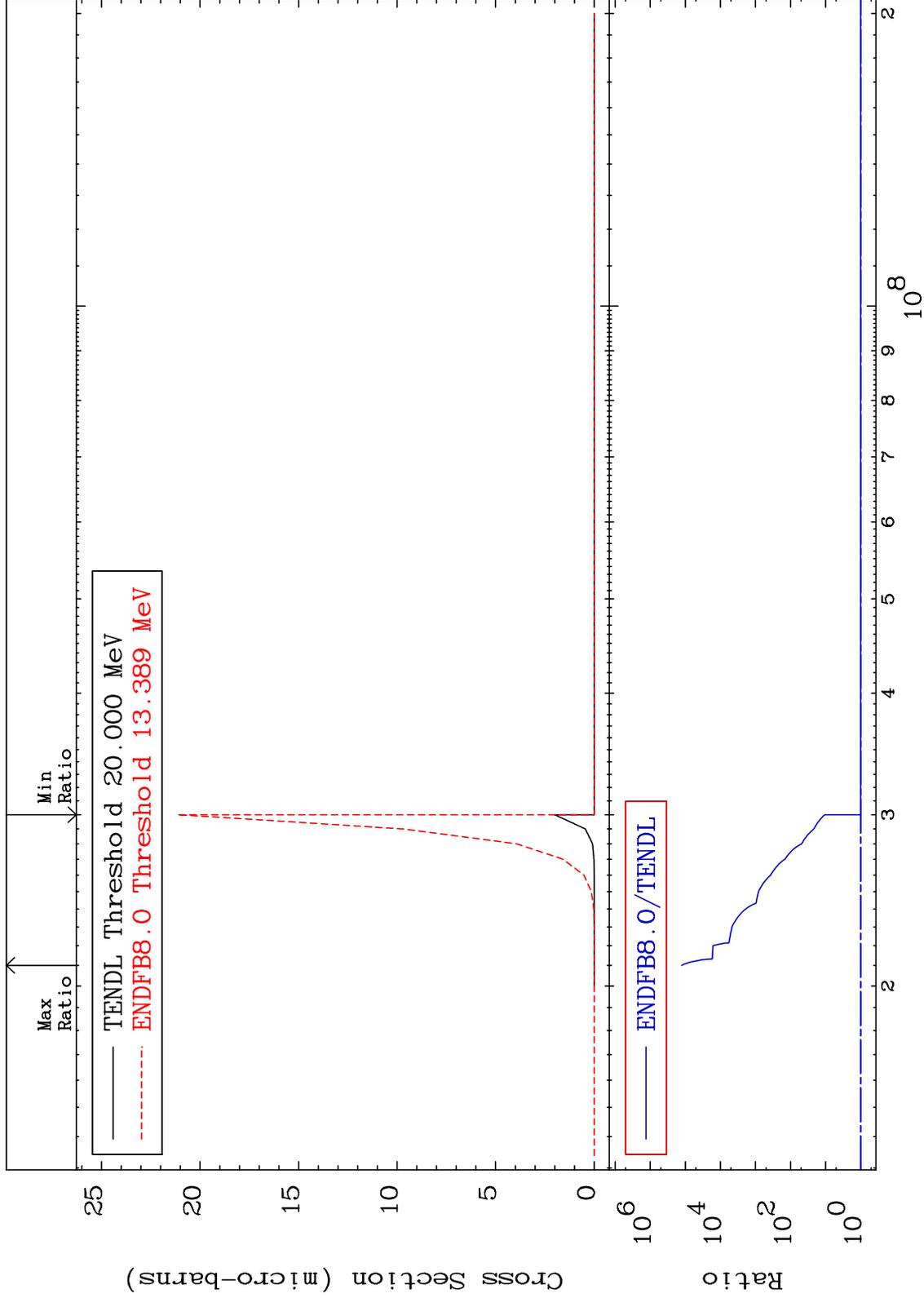


MAT 8228

(n,3n) α :80-Hg-199m7

82-Pb-205

Radionuclide Production Cross Section 0.000 To 9999. %

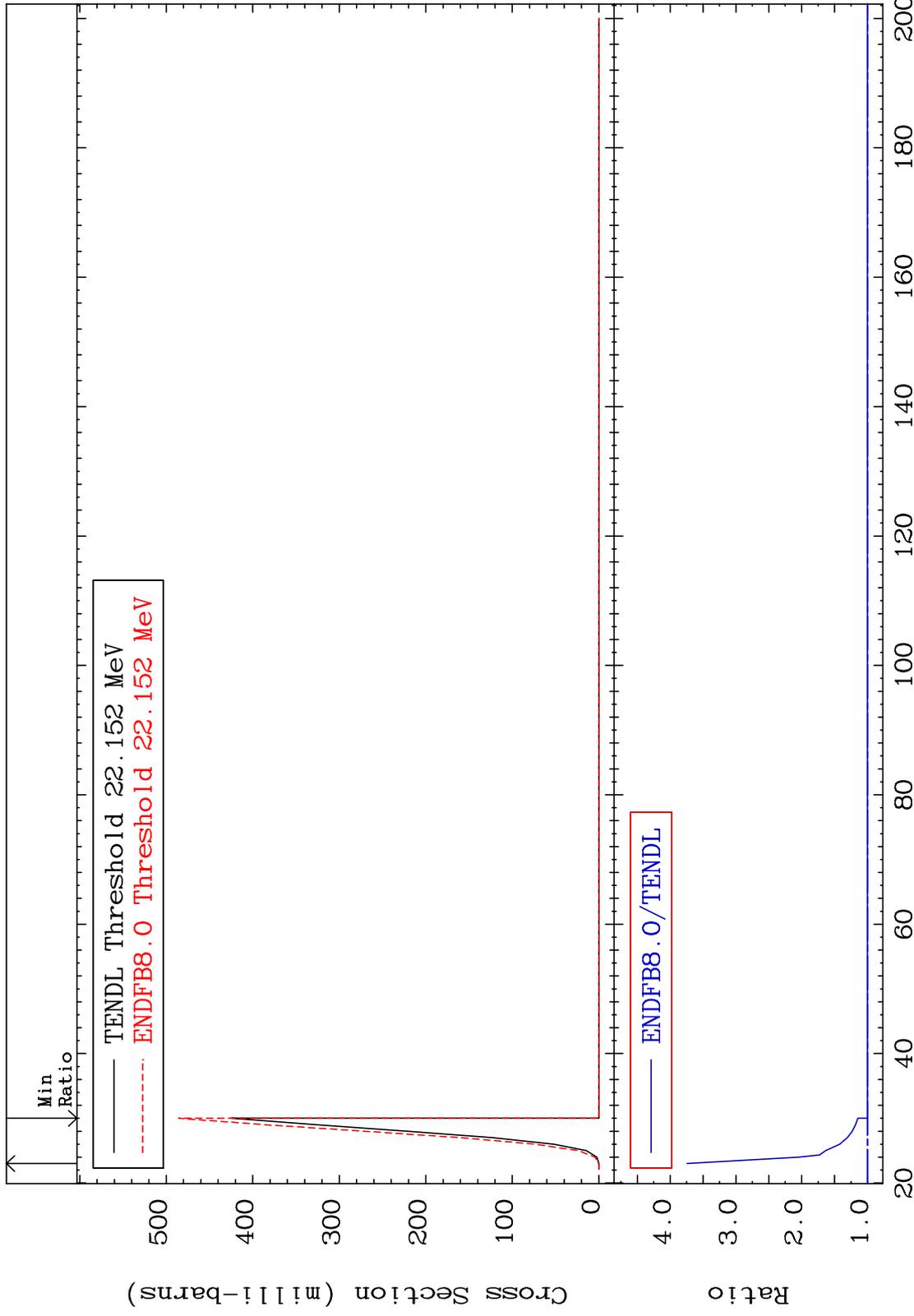


MAT 8228

(n, 4n) : 82-Pb-202g

82-Pb-205

Radionuclide Production Cross Section 0.000 To 274.3 %



85

Incident Energy (MeV)

82-Pb-205