

Program Complot  
(Version 2018-1)

by

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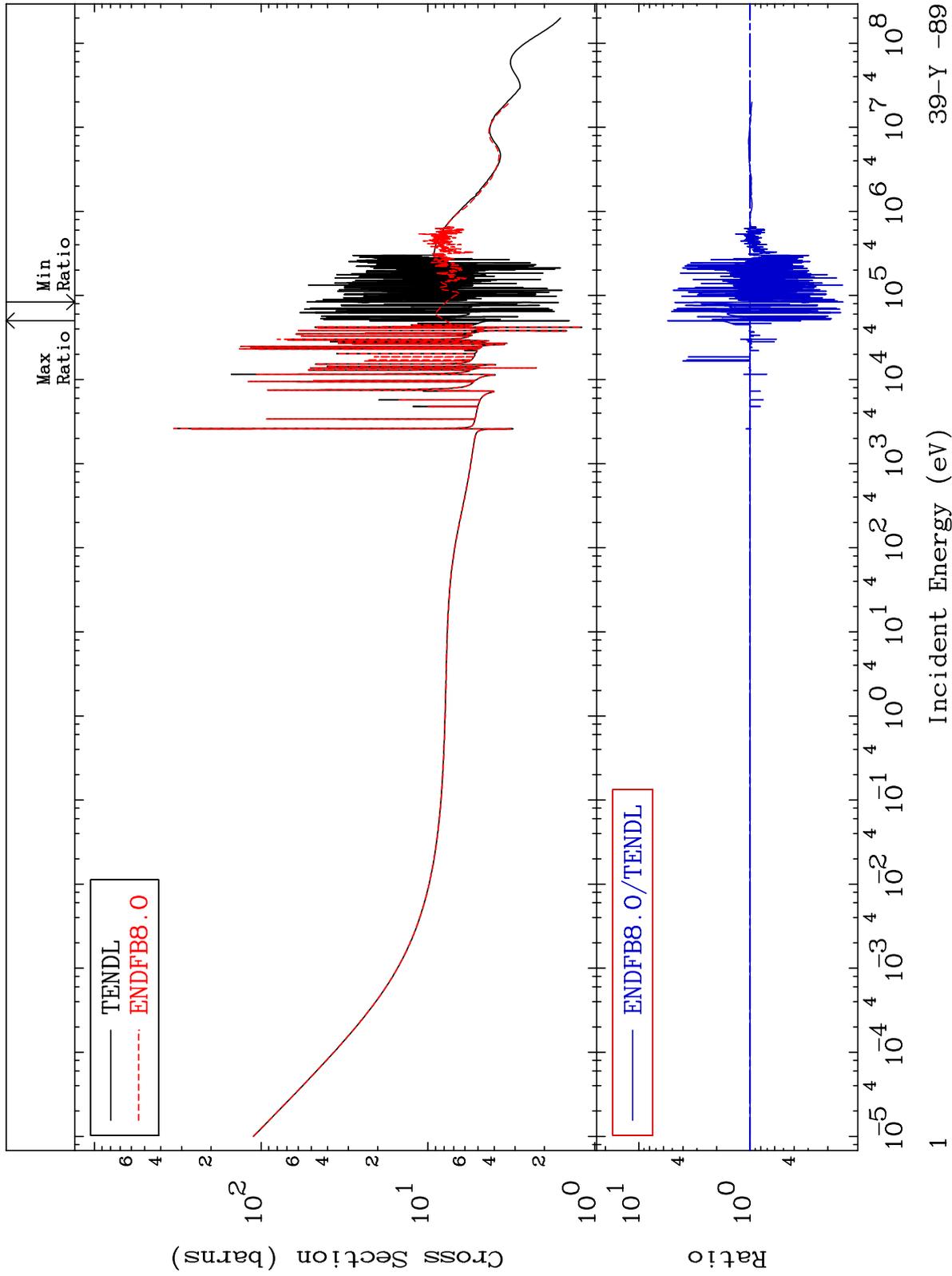
E.Mail: [redcullen1@comcast.net](mailto:redcullen1@comcast.net)  
Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

Press Mouse Button to Start

MAT 3925

Total  
Cross Section

39-Y -89  
-85.38 To 450.7 %



39-Y -89

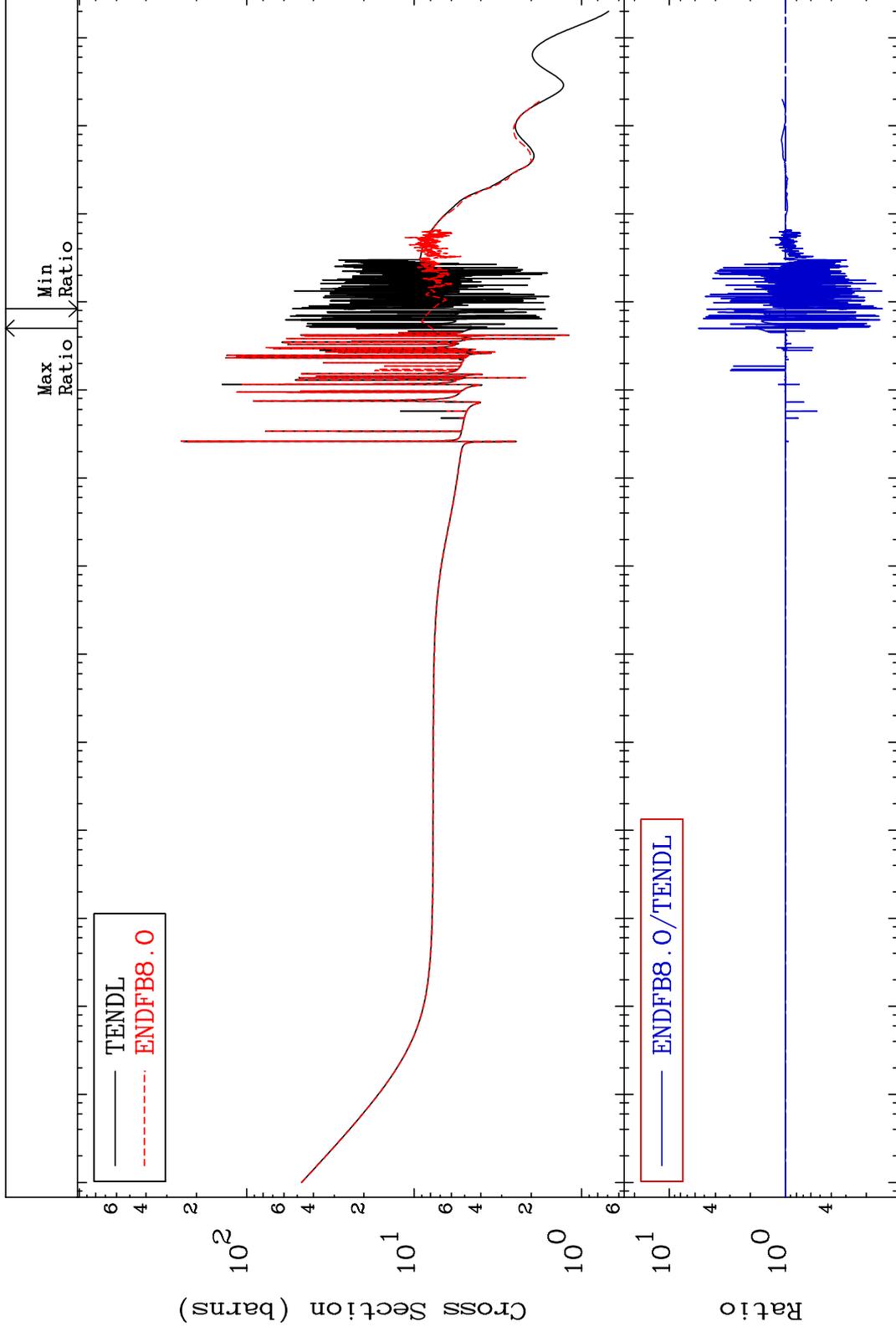
MAT 3925

Elastic

Cross Section

39-Y -89

-85.39 To 460.1 %



Incident Energy (eV)

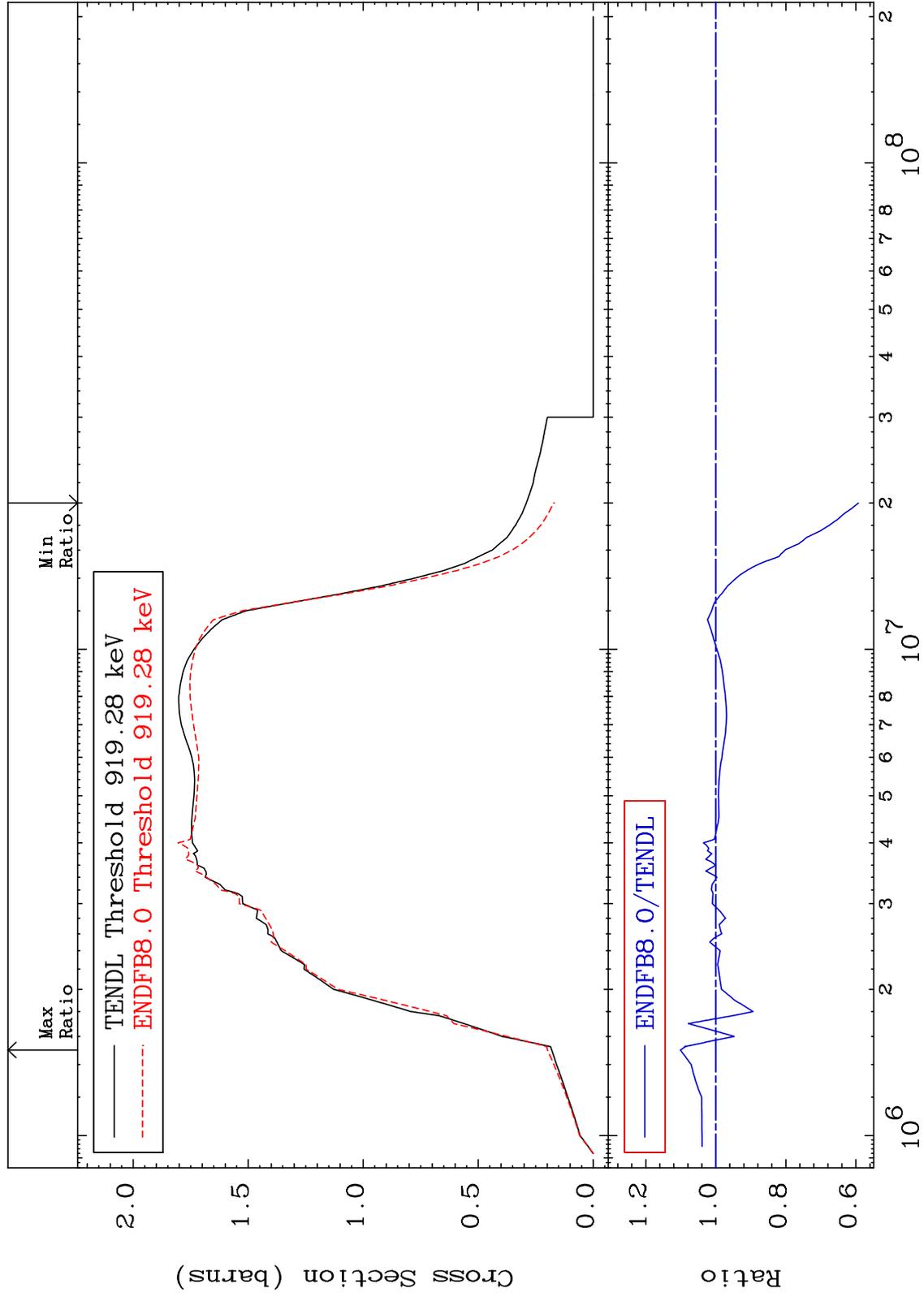
39-Y -89

2

MAT 3925

Inelastic  
Cross Section

39-Y -89  
-40.74 To 10.13 %



Incident Energy (eV)

39-Y -89

3



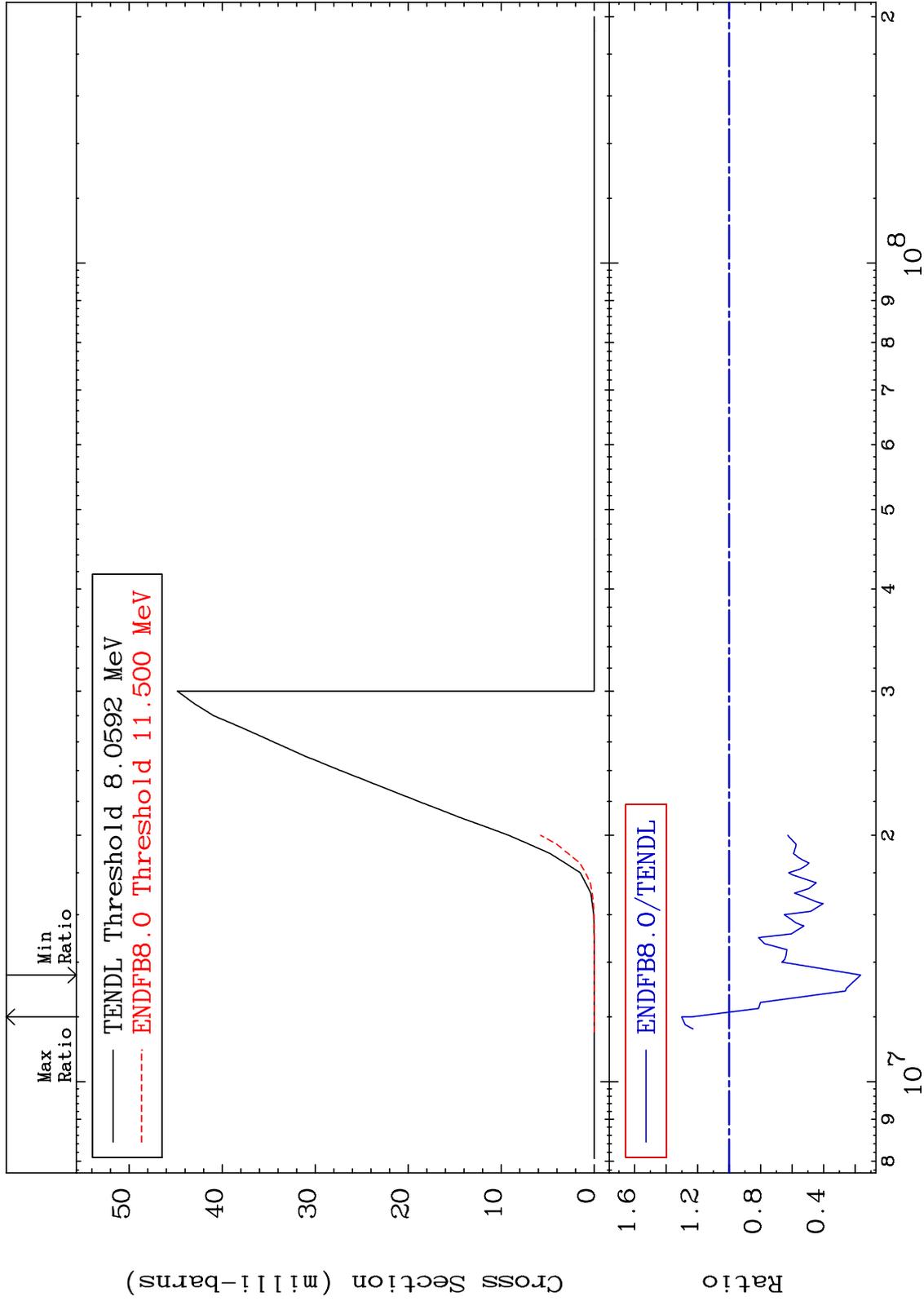
MAT 3925

(n,n')  $\alpha$

39-Y -89

Cross Section

-83.52 To 30.04 %



Incident Energy (eV)

39-Y -89

5

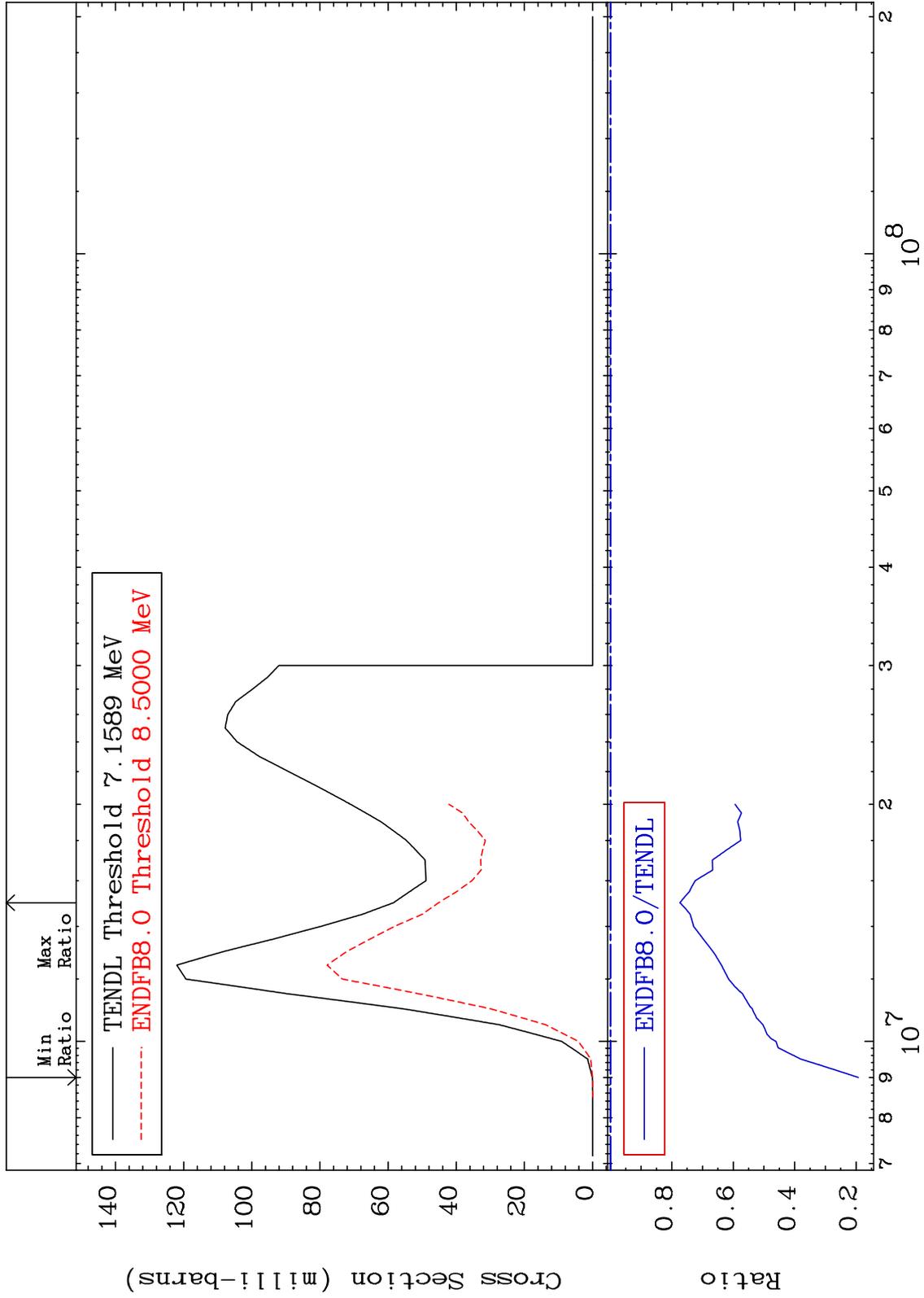
MAT 3925

(n,n') p

39-Y -89

Cross Section

-80.75 To -22.65%



Incident Energy (eV)

39-Y -89

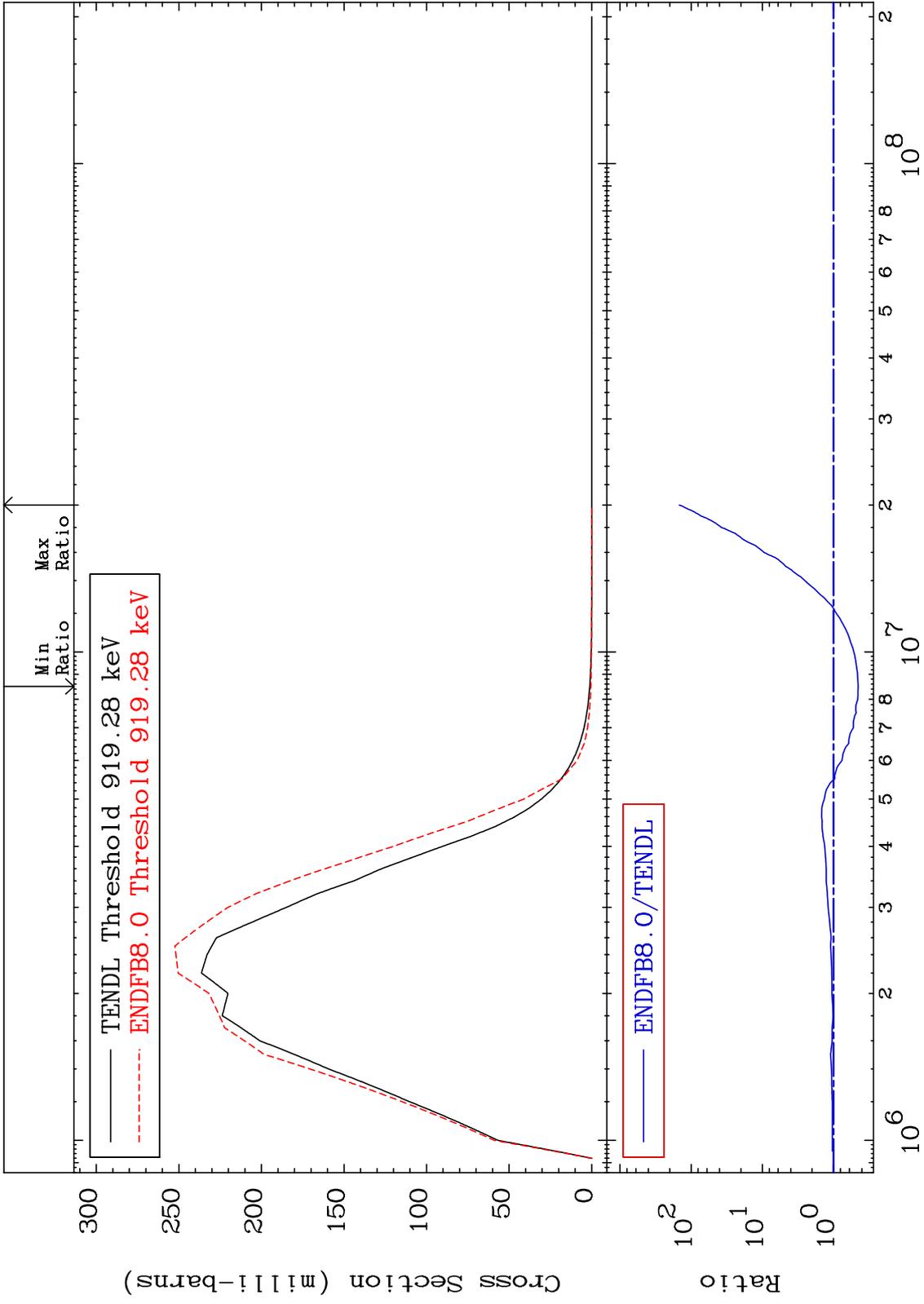
MAT 3925

MT= 51 (n,n') Level

39-Y -89

-55.00 To 9999. %

Cross Section



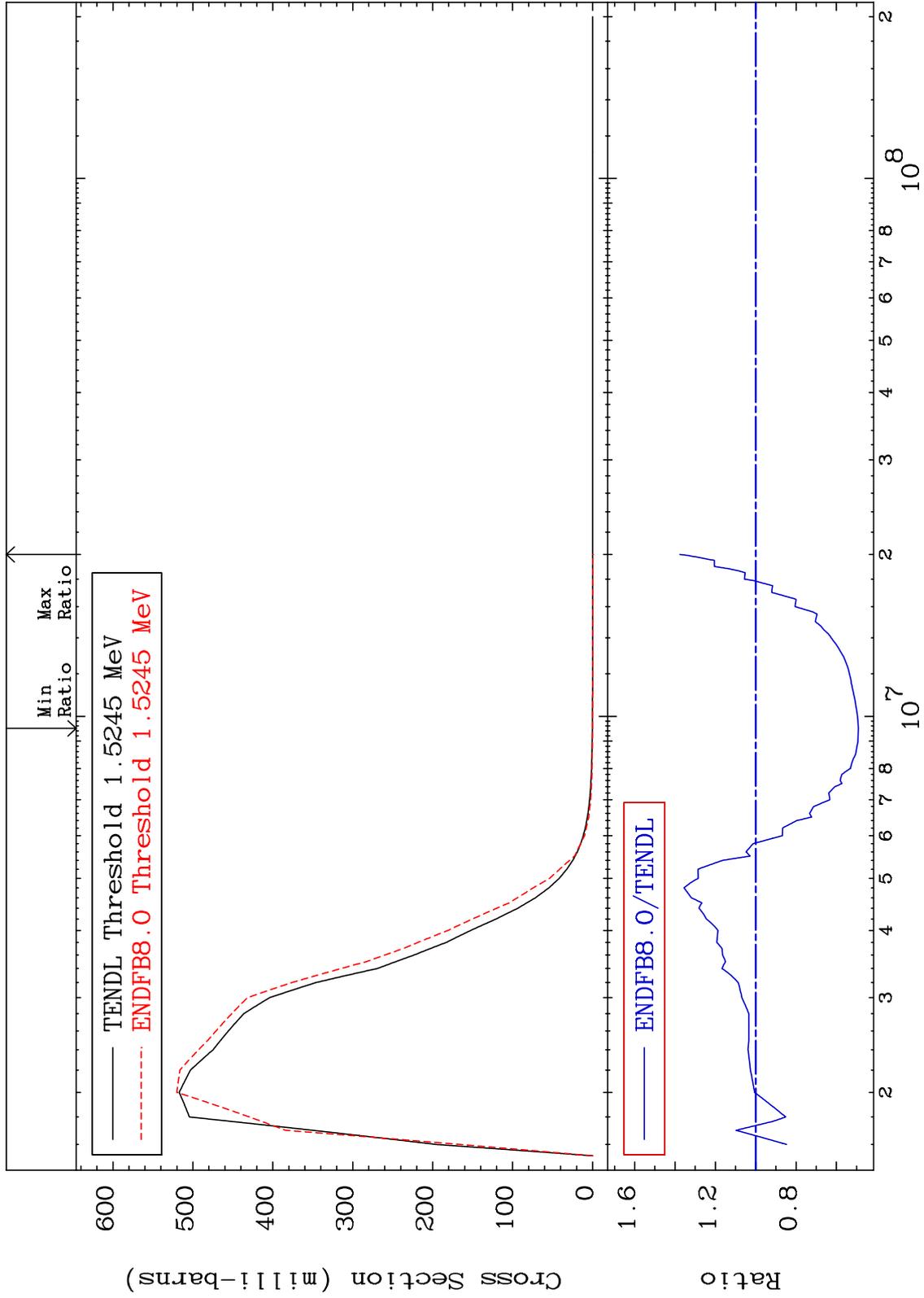
Incident Energy (eV)

39-Y -89

MAT 3925

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

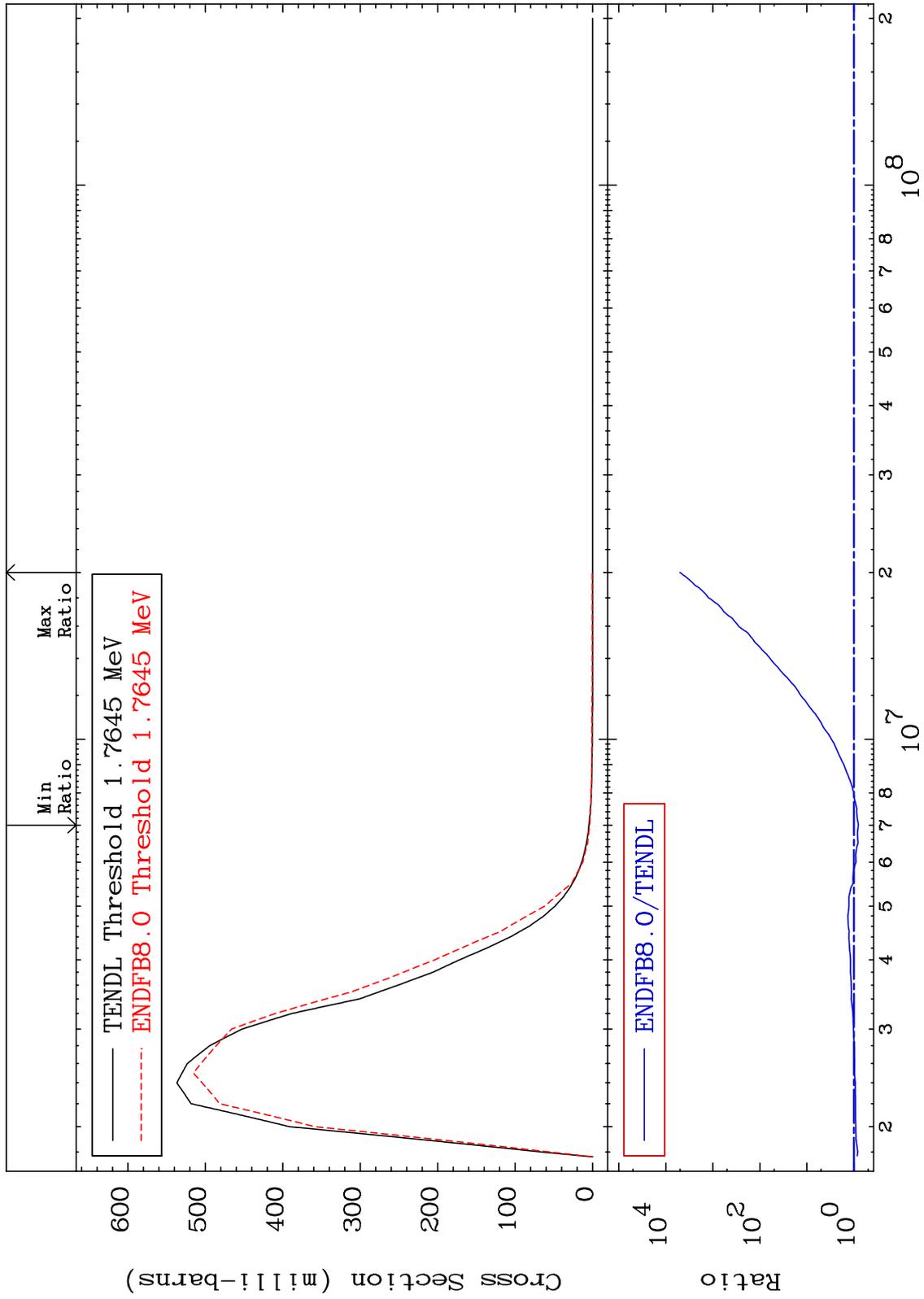
39-Y -89  
-50.90 To 37.58 %



MAT 3925

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

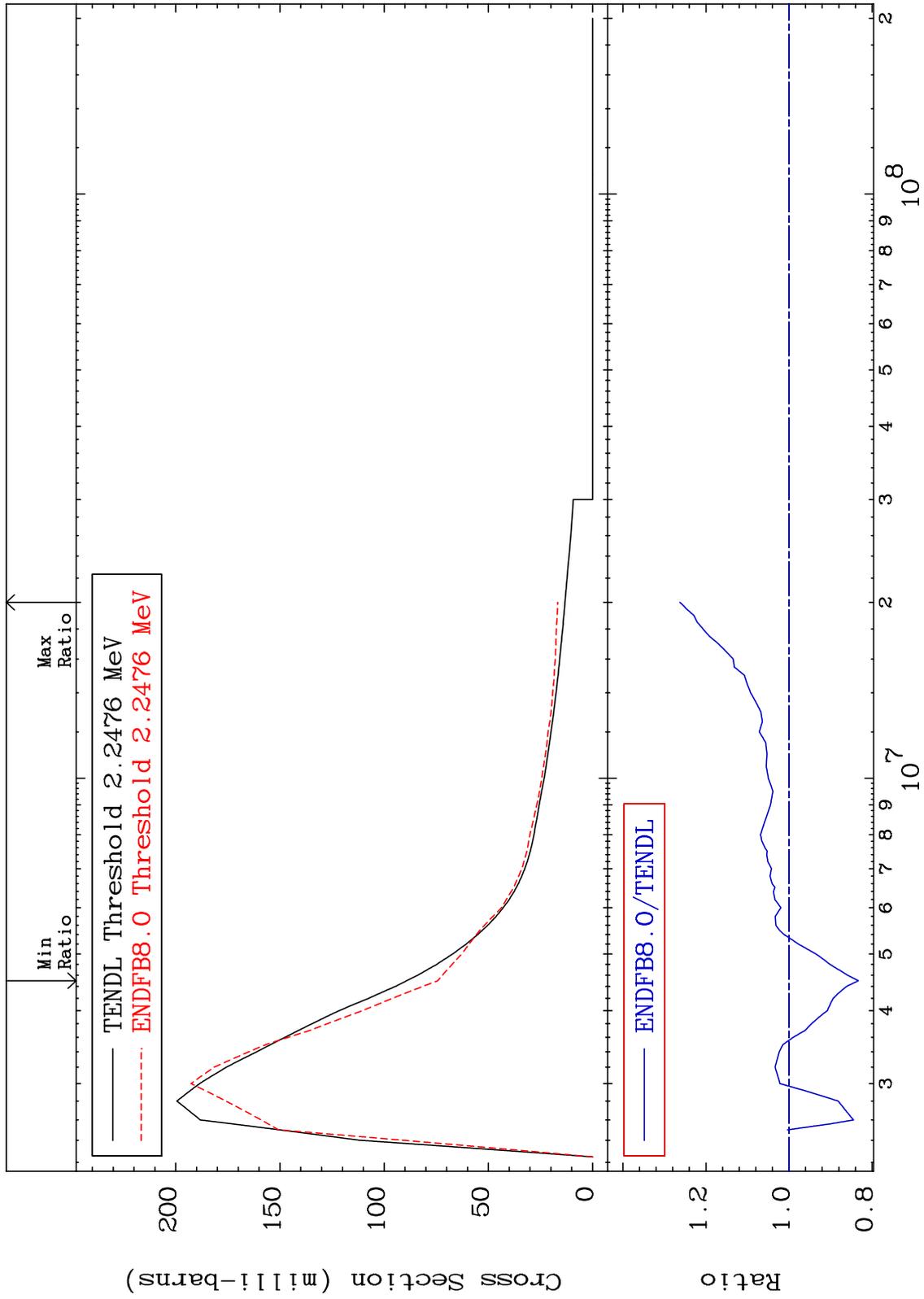
39-Y -89  
-19.54 To 9999. %



MAT 3925

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

39-Y -89  
-16.71 To 26.26 %



10

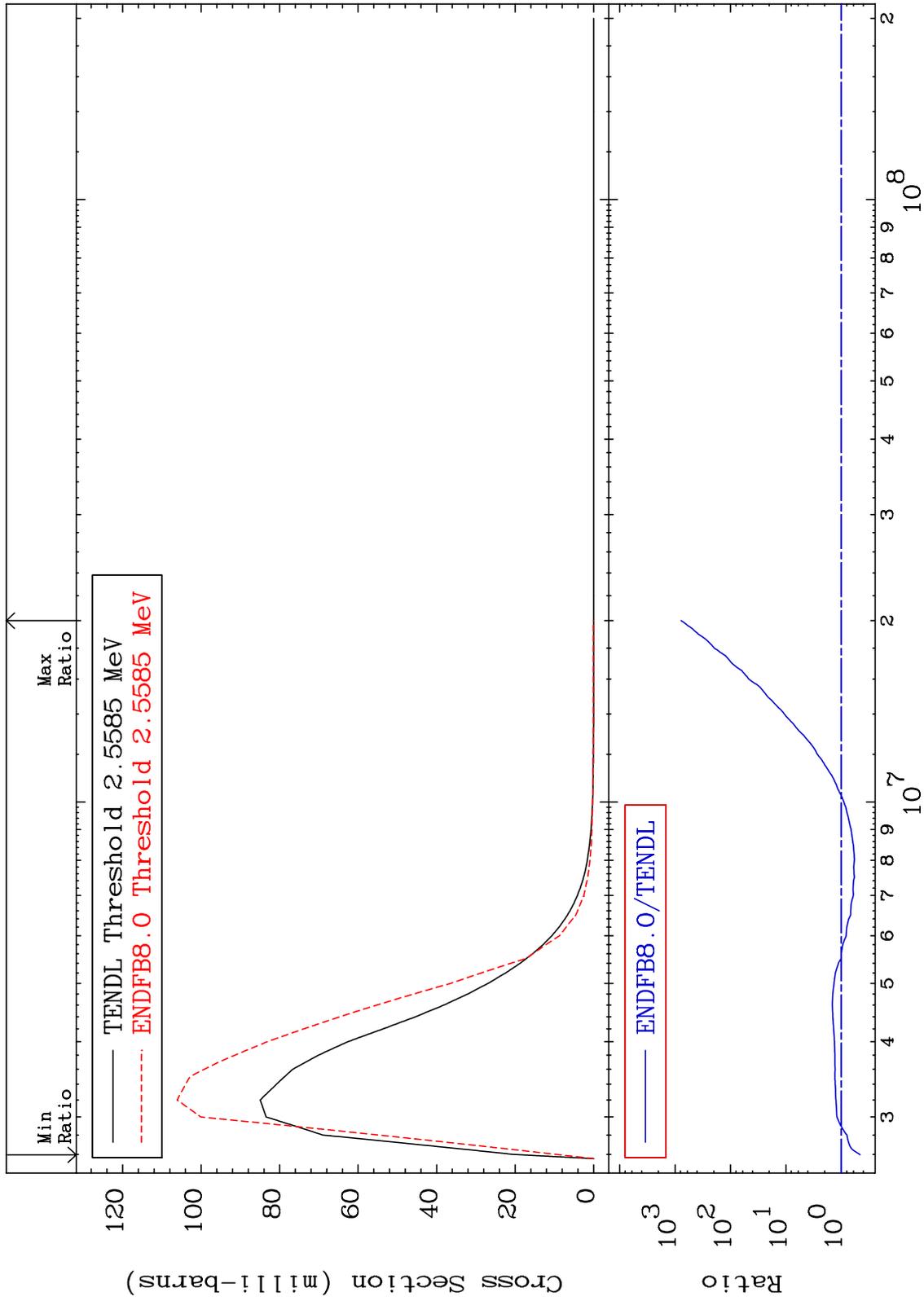
Incident Energy (eV)

39-Y -89

MAT 3925

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

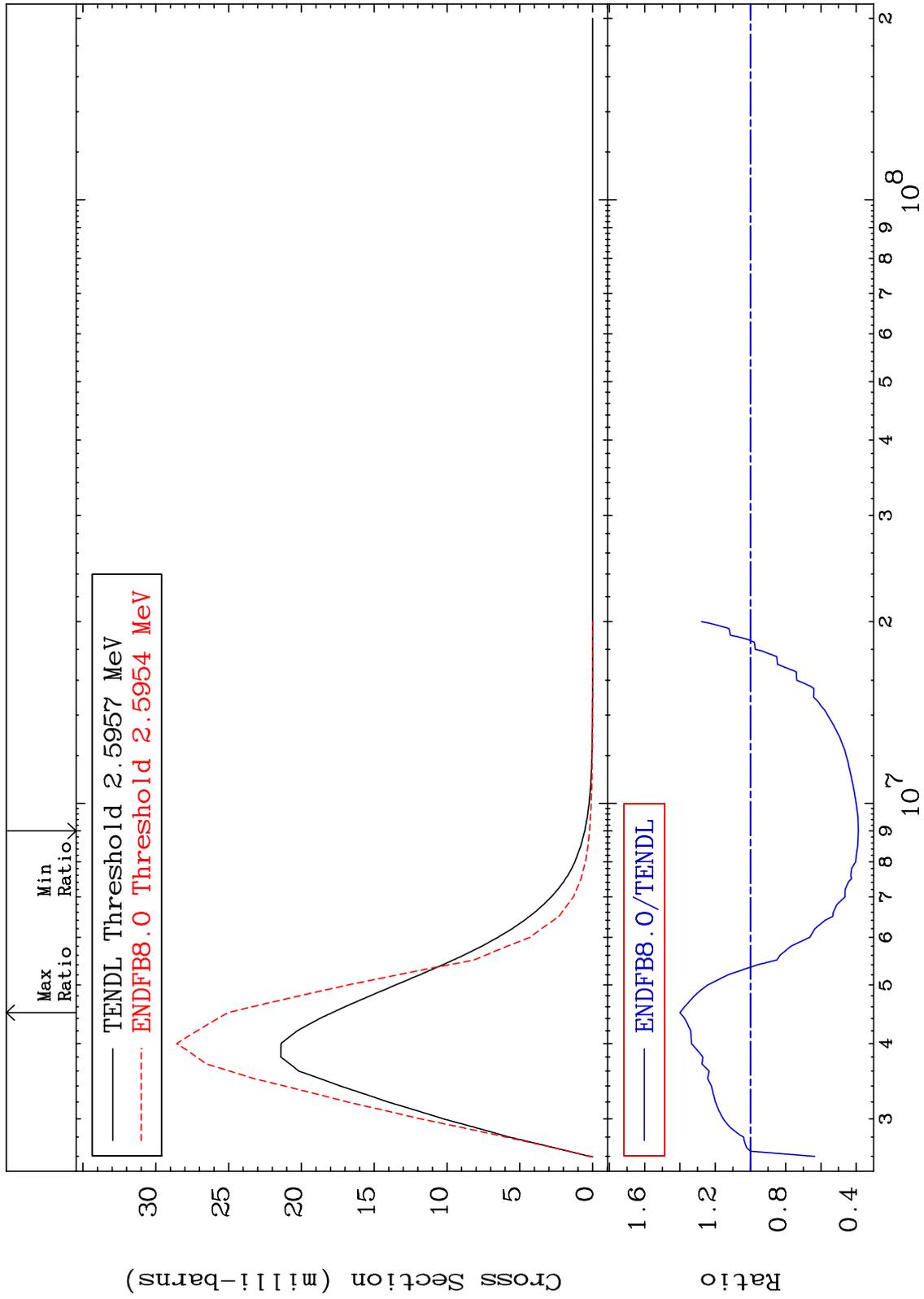
39-Y -89  
-53.85 To 9999. %



MAT 3925

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

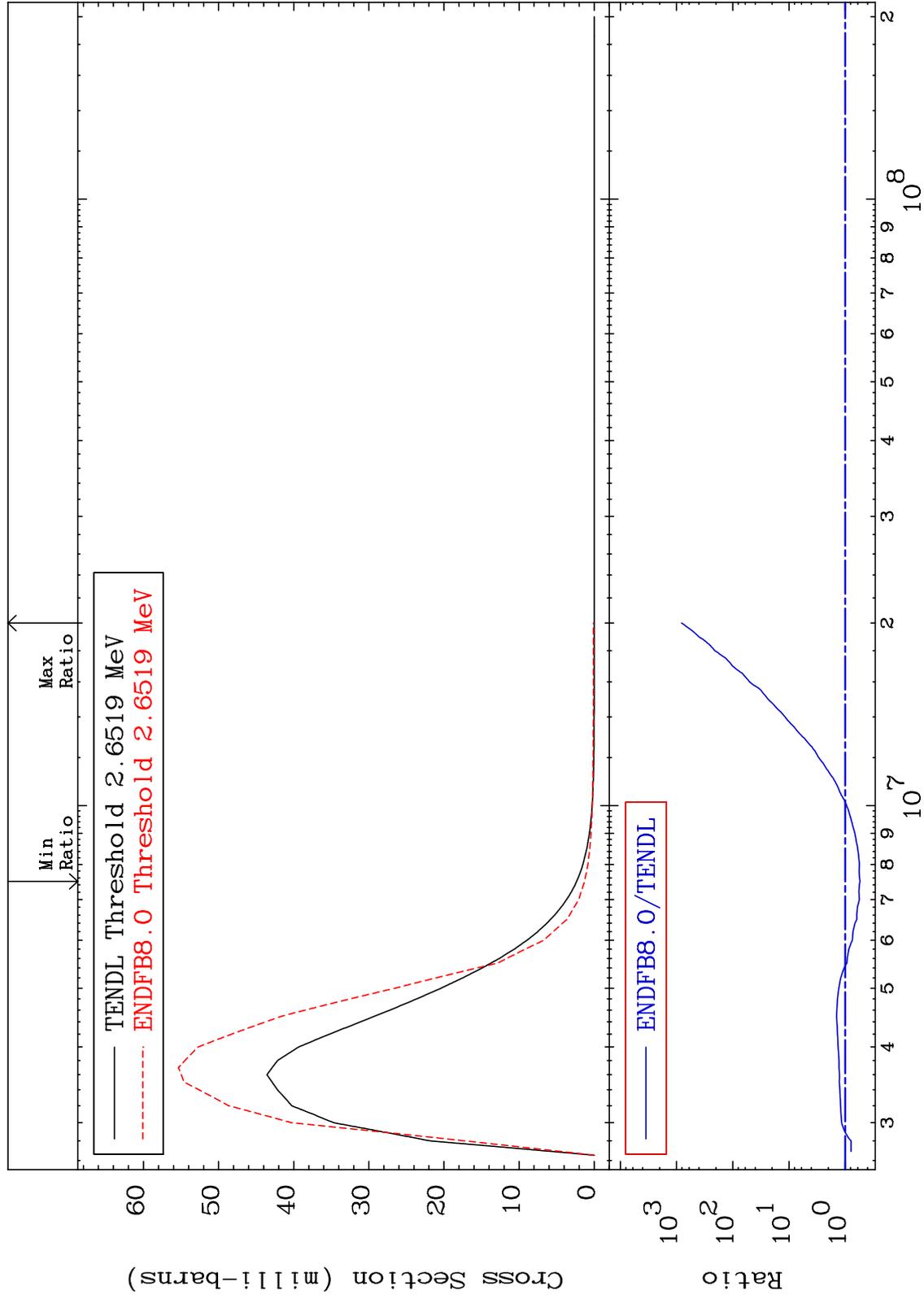
39-Y -89  
-61.25 To 40.01 %



MAT 3925

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

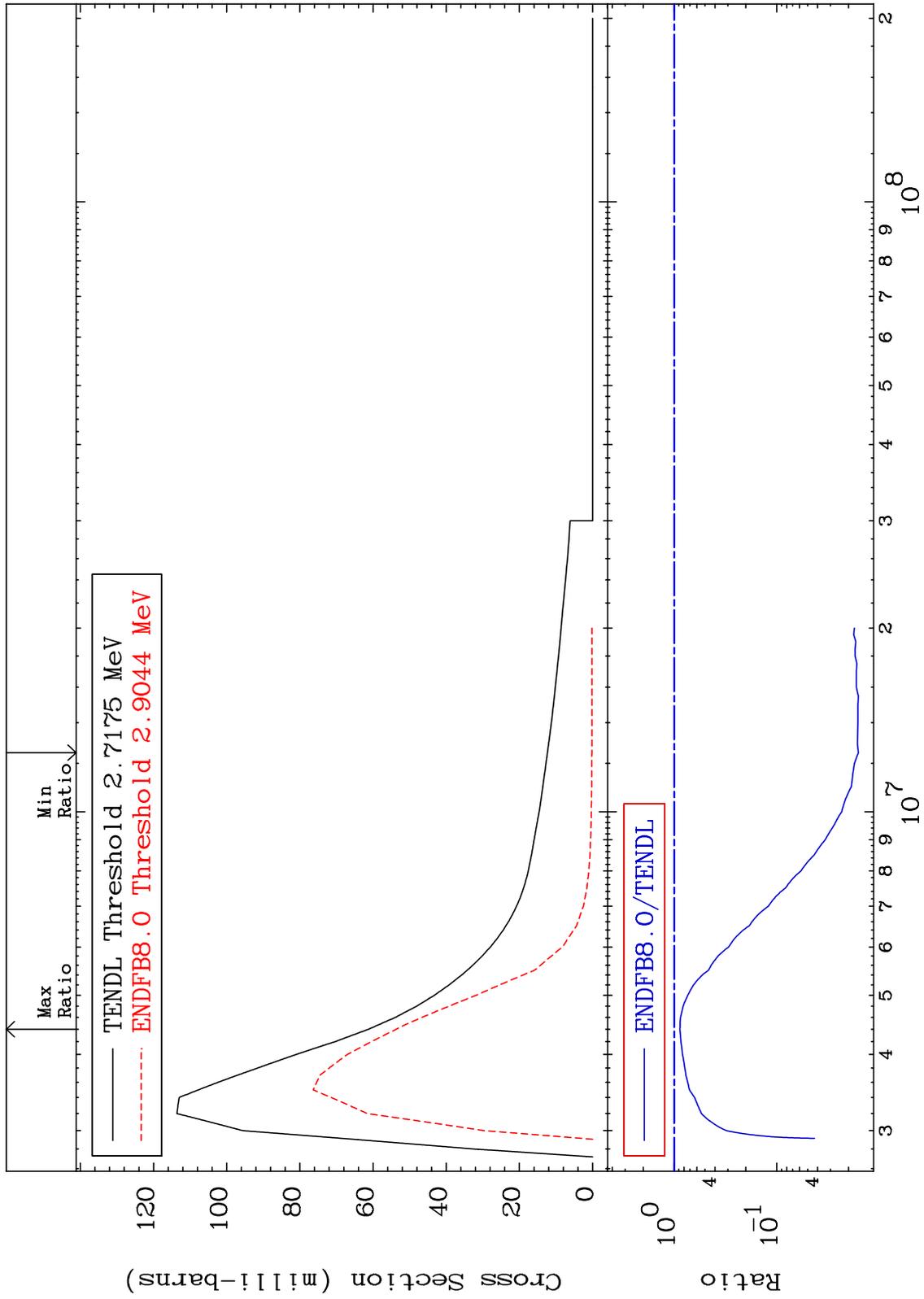
39-Y -89  
-45.43 To 9999. %



MAT 3925

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

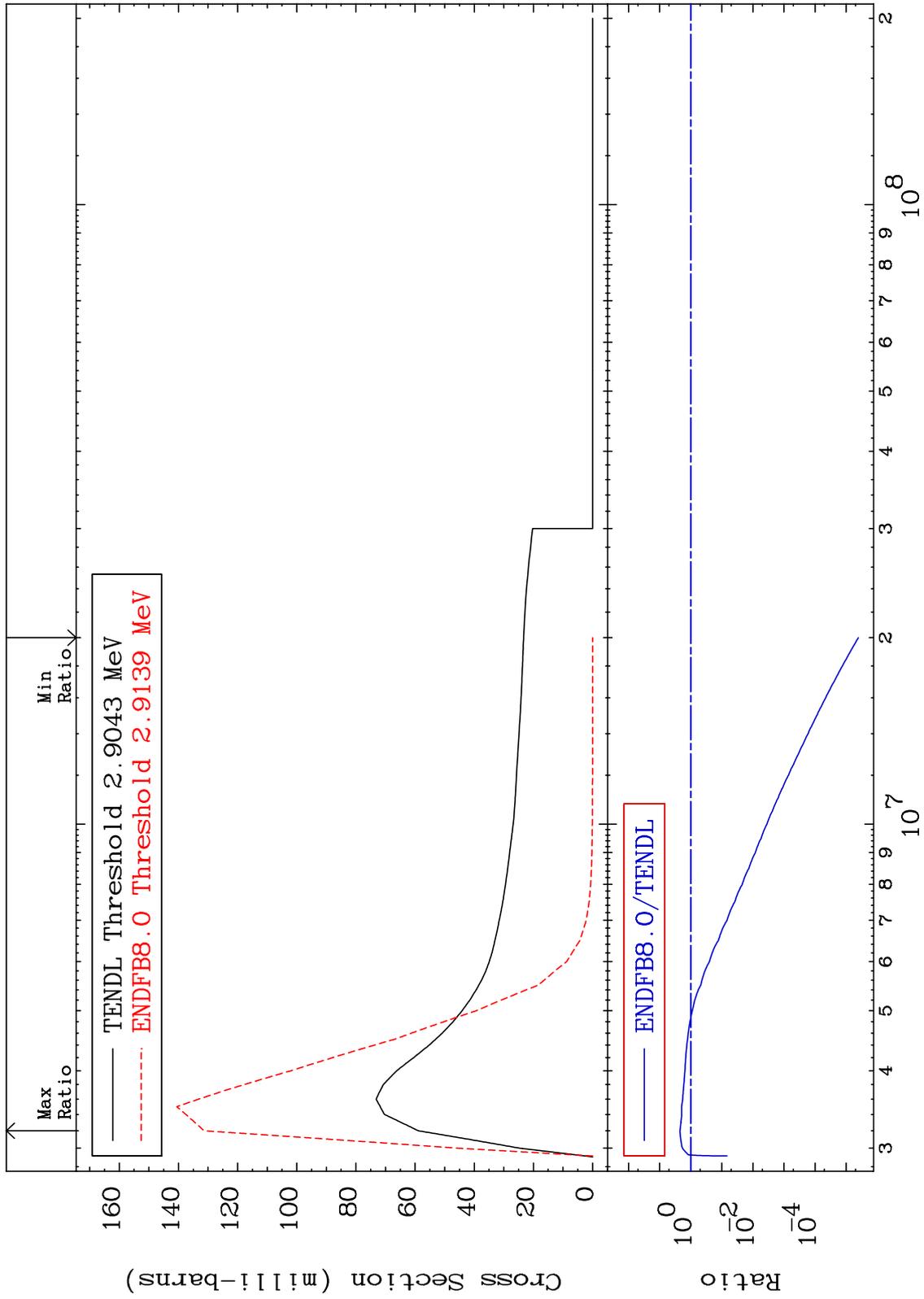
39-Y -89  
-98.40 To -12.28%



MAT 3925

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

39-Y -89  
-100.0 To 122.9 %



15

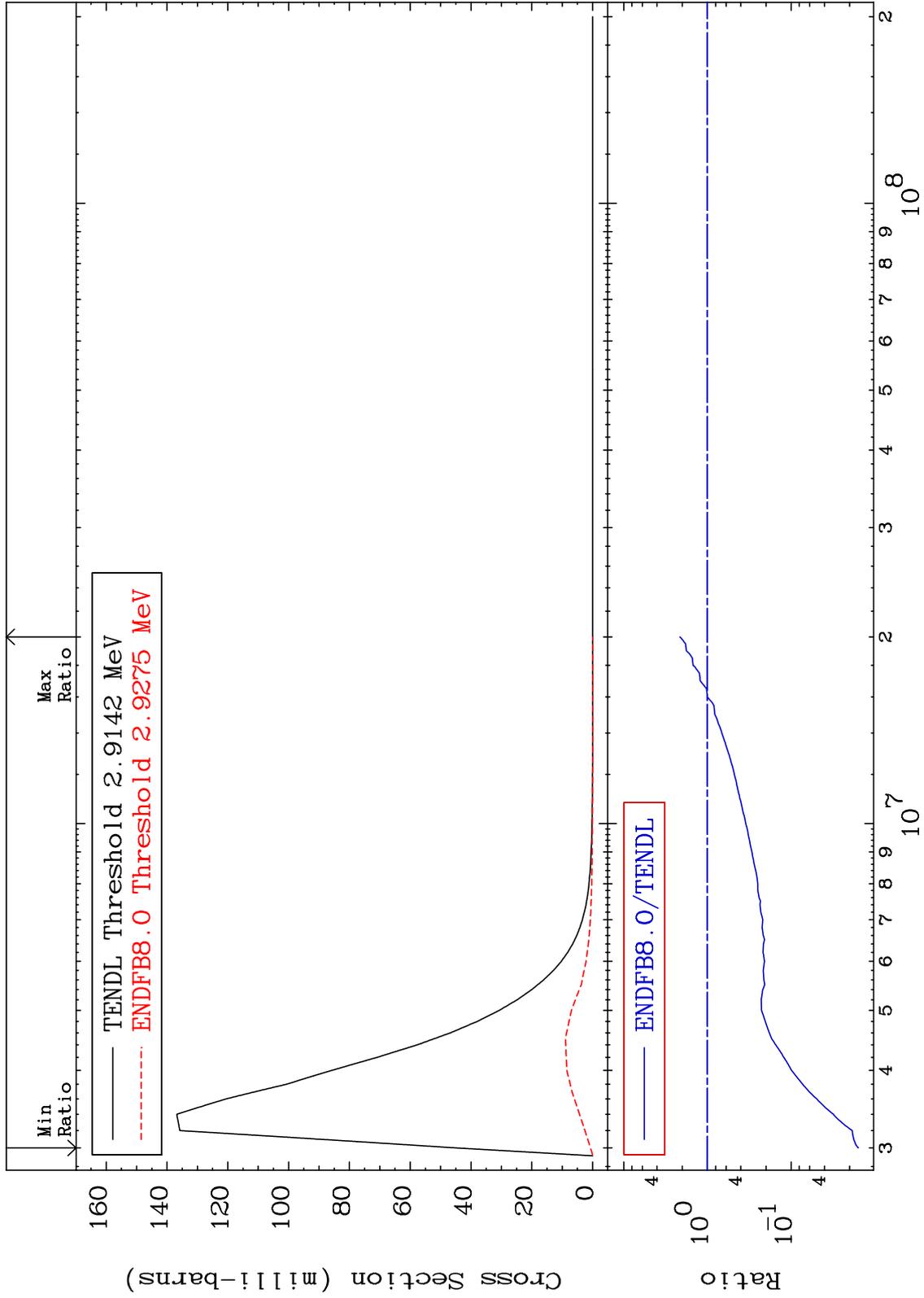
Incident Energy (eV)

39-Y -89

MAT 3925

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

39-Y -89  
-98.43 To 113.1 %



16

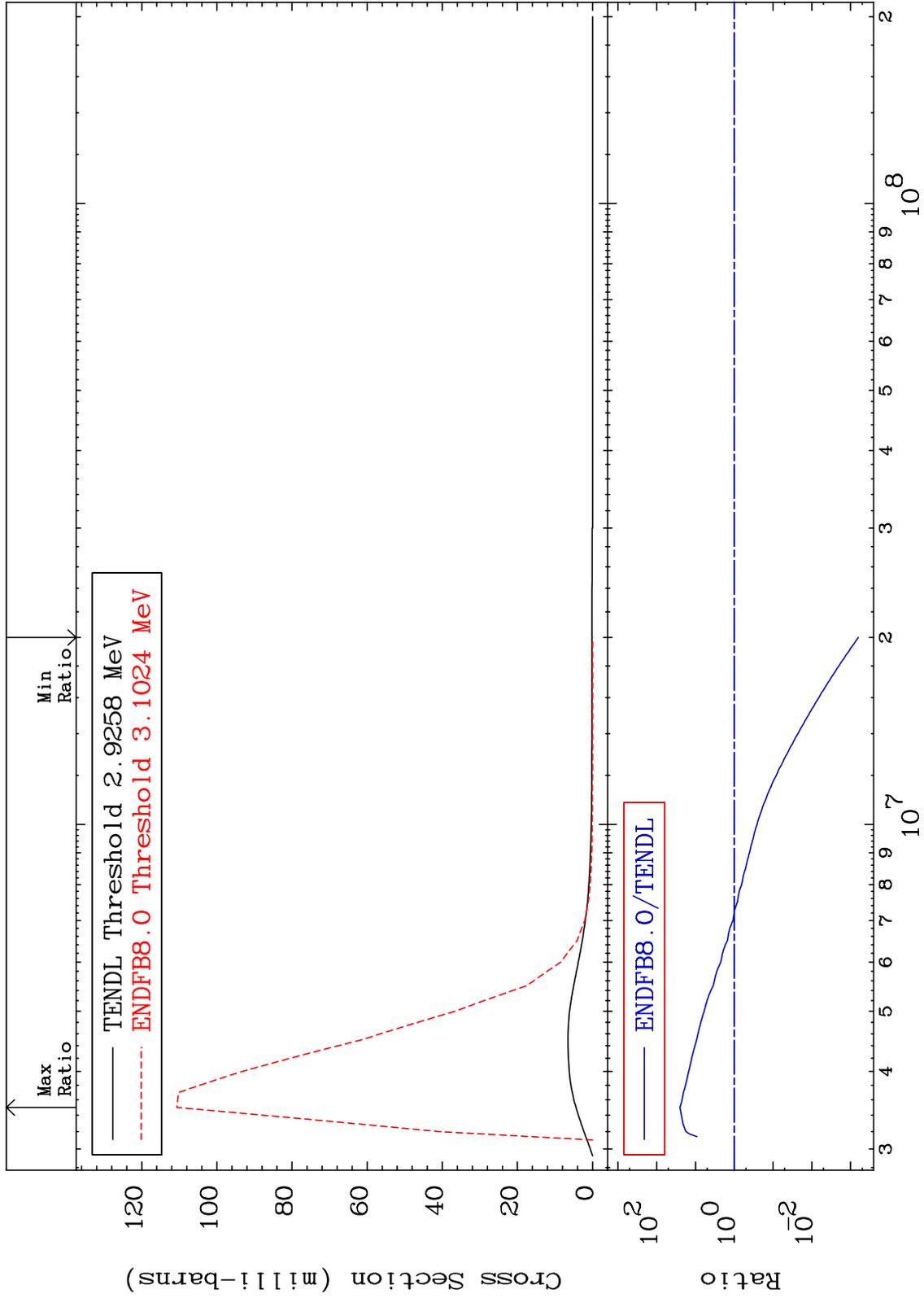
Incident Energy (eV)

39-Y -89

MAT 3925

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

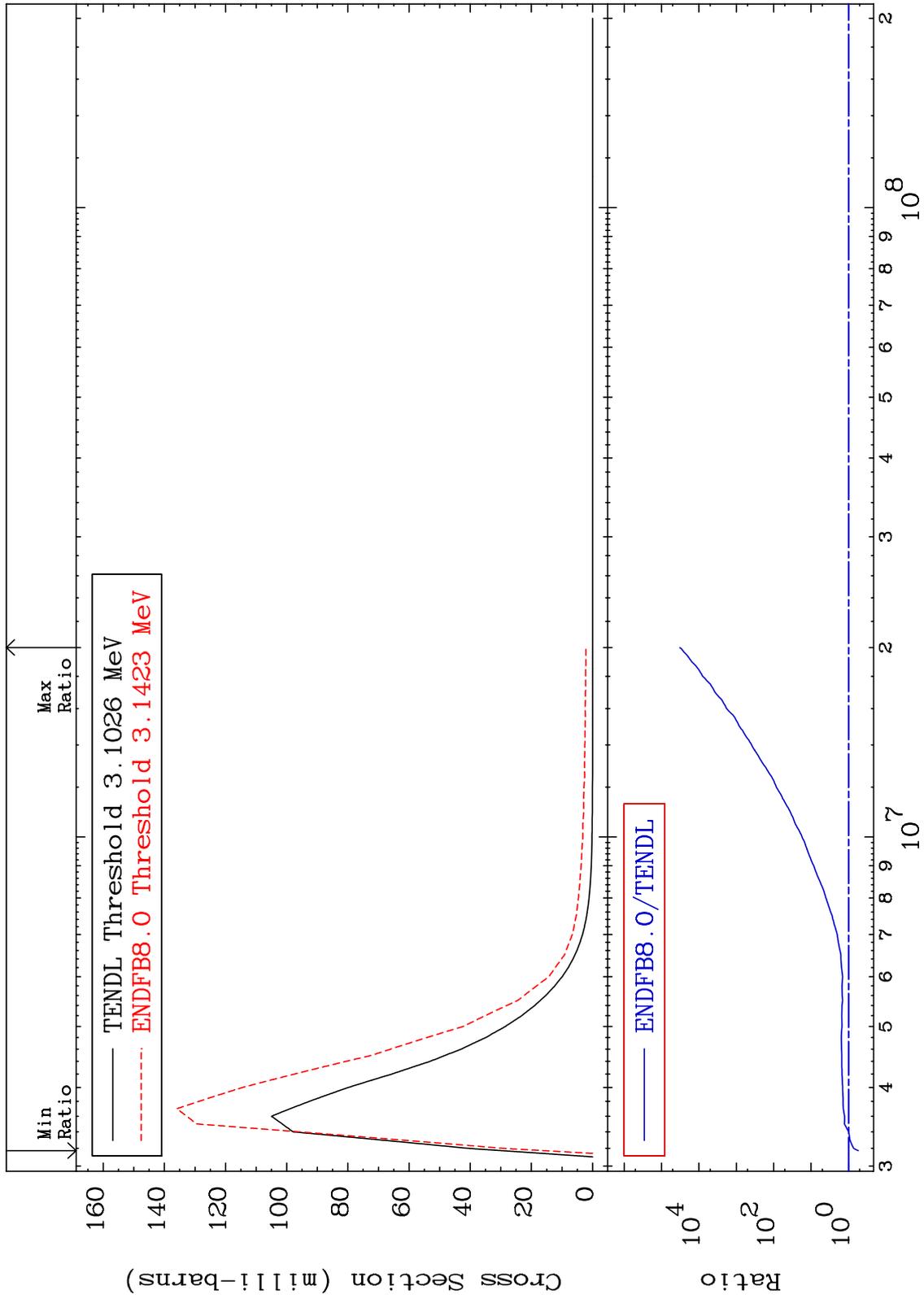
39-Y -89  
-99.94 To 2420. %



MAT 3925

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

39-Y -89  
-45.87 To 9999. %



18

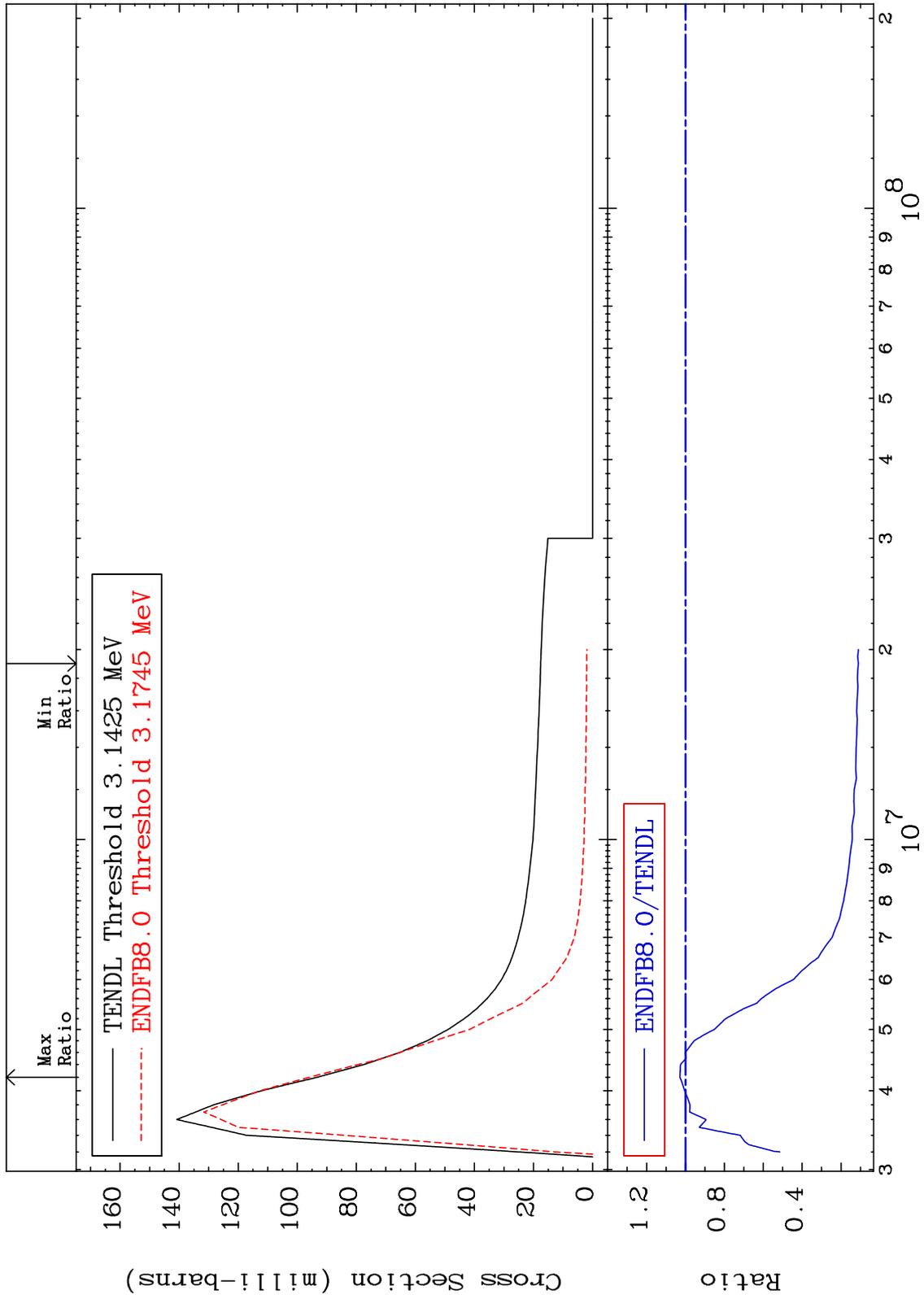
Incident Energy (eV)

39-Y -89

MAT 3925

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

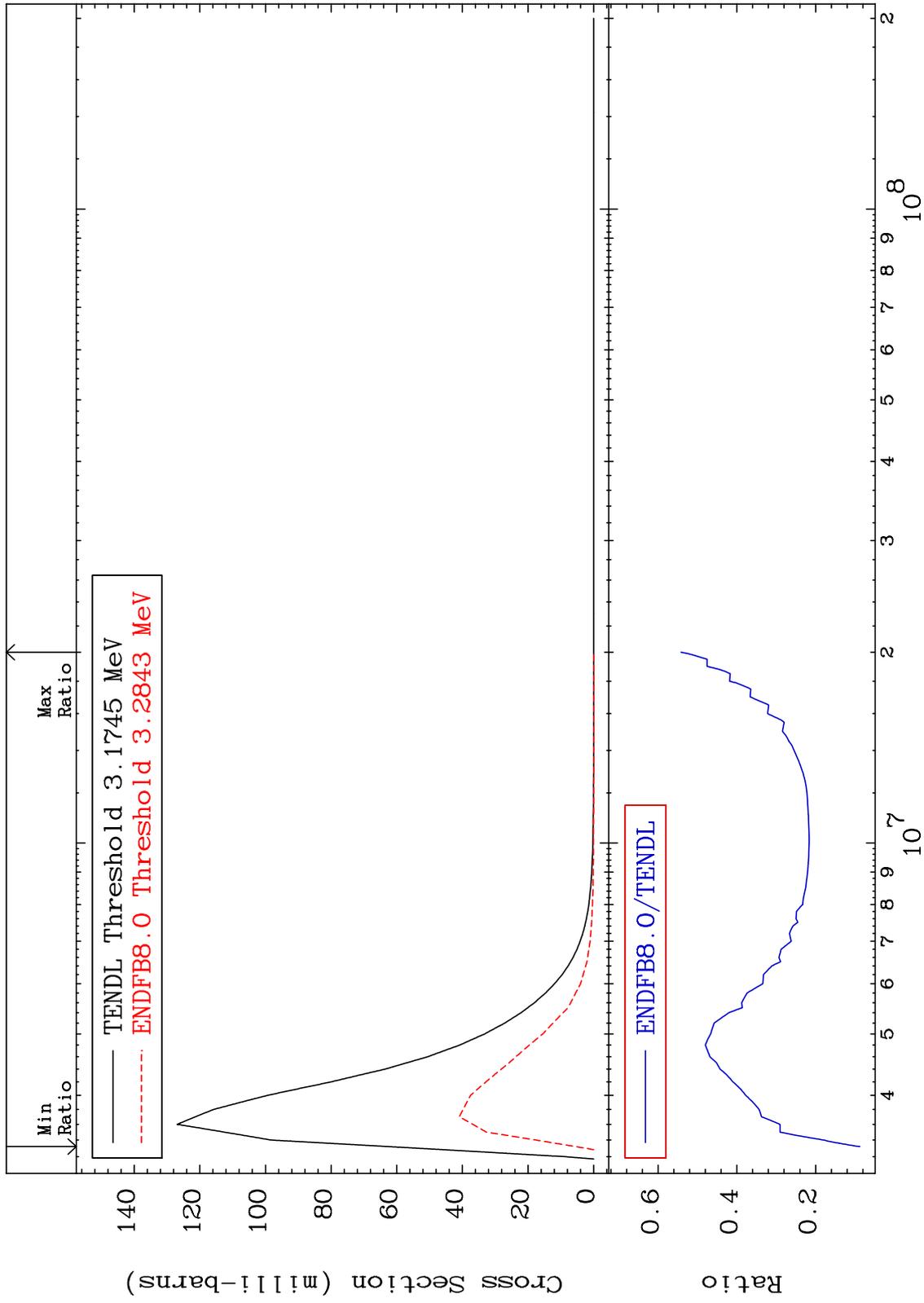
39-Y -89  
-88.94 To 2.856 %



MAT 3925

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

39-Y -89  
-91.25 To -45.85%



20

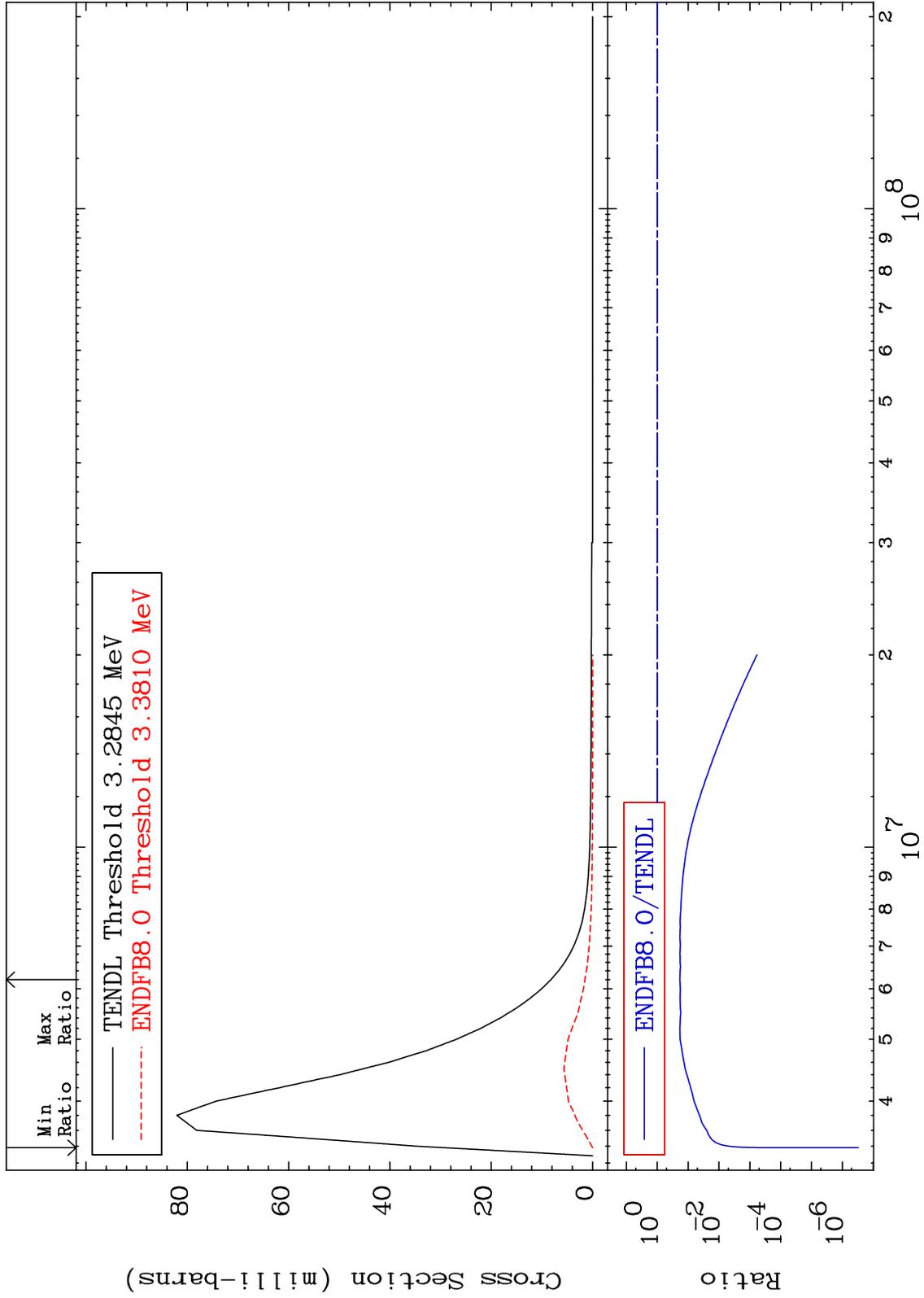
Incident Energy (eV)

39-Y -89

MAT 3925

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

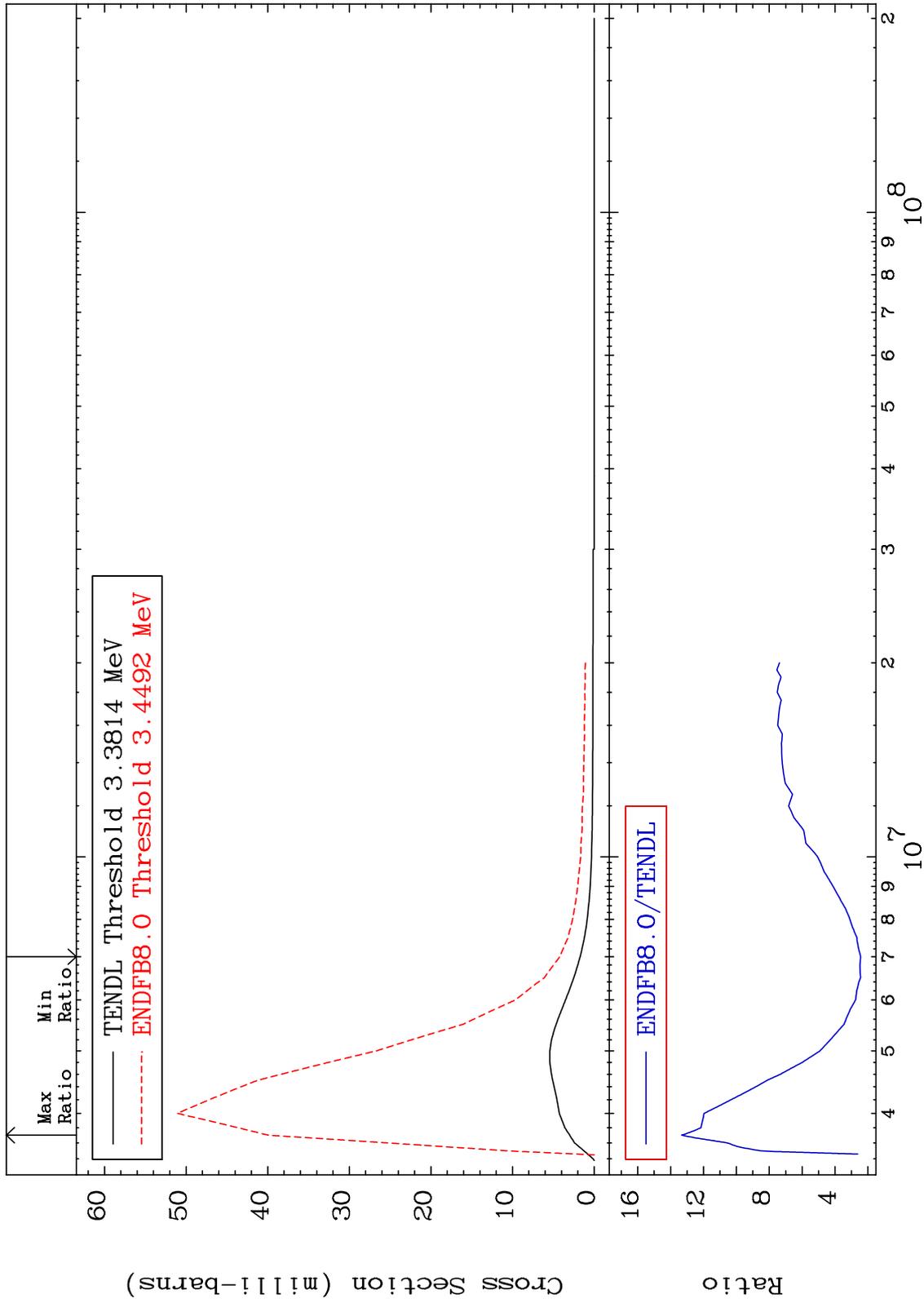
39-Y -89  
-100.0 To -81.59%



MAT 3925

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

39-Y -89  
144.0 To 1233. %



22

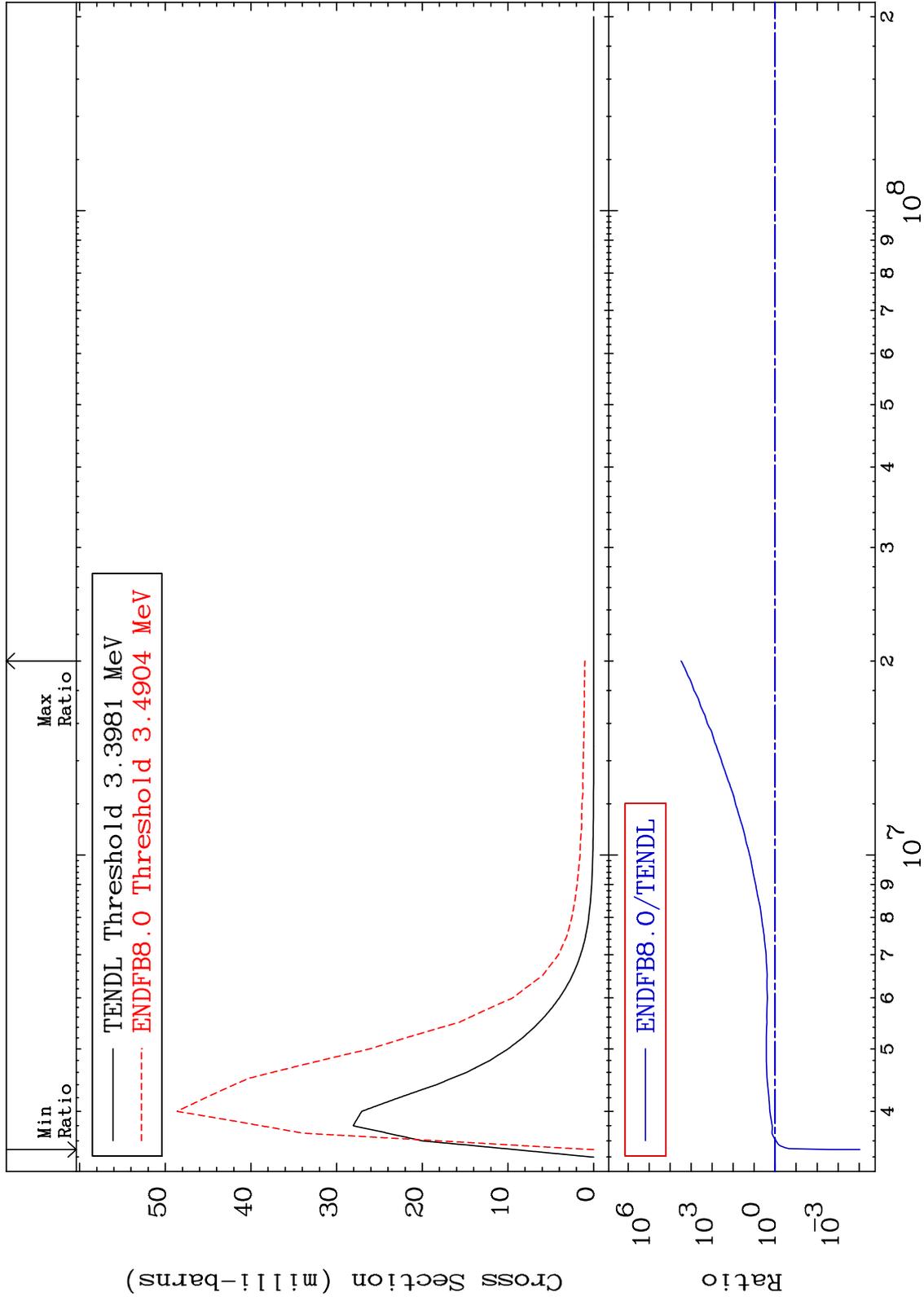
Incident Energy (eV)

39-Y -89

MAT 3925

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

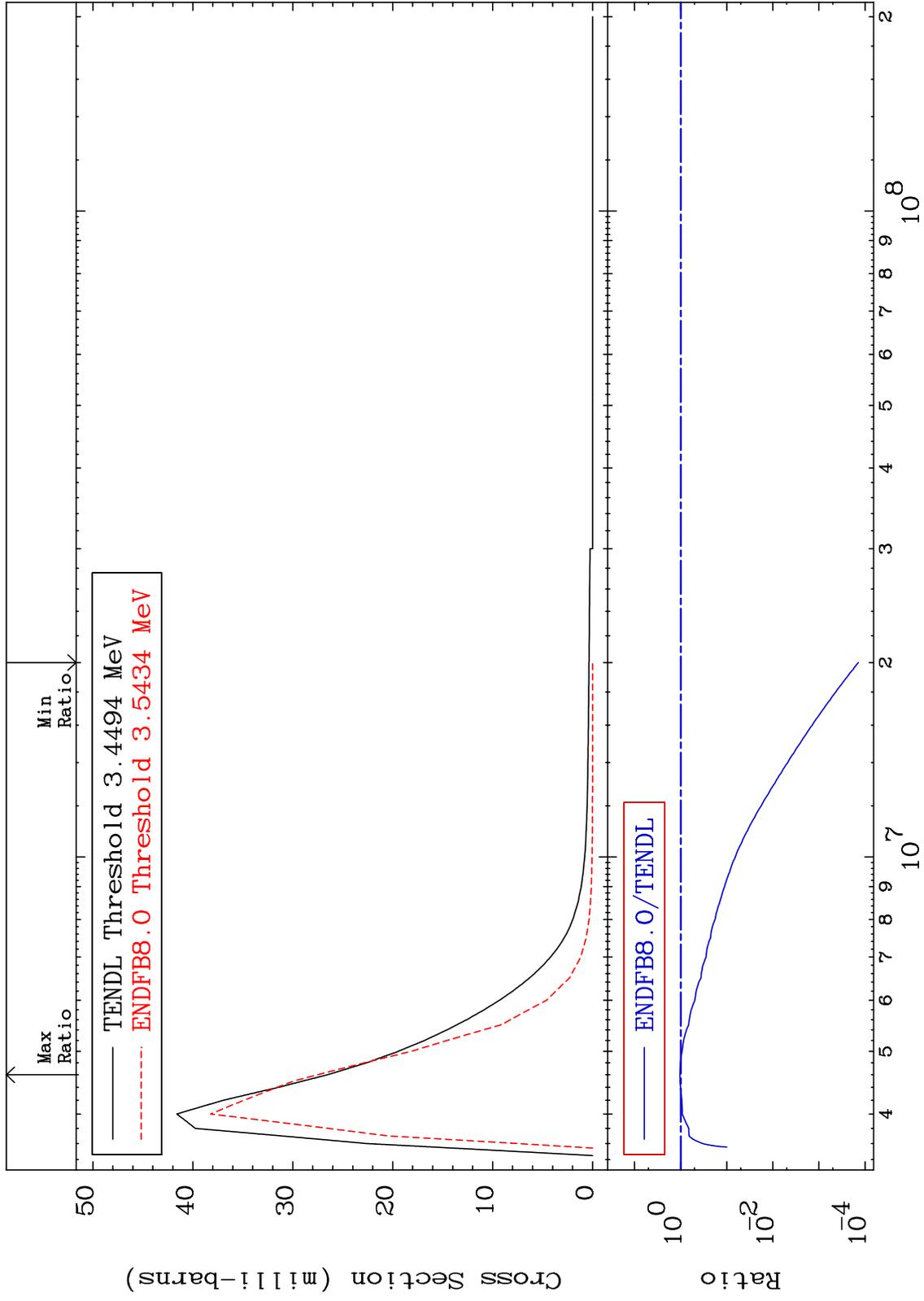
39-Y -89  
-99.99 To 9999. %



MAT 3925

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

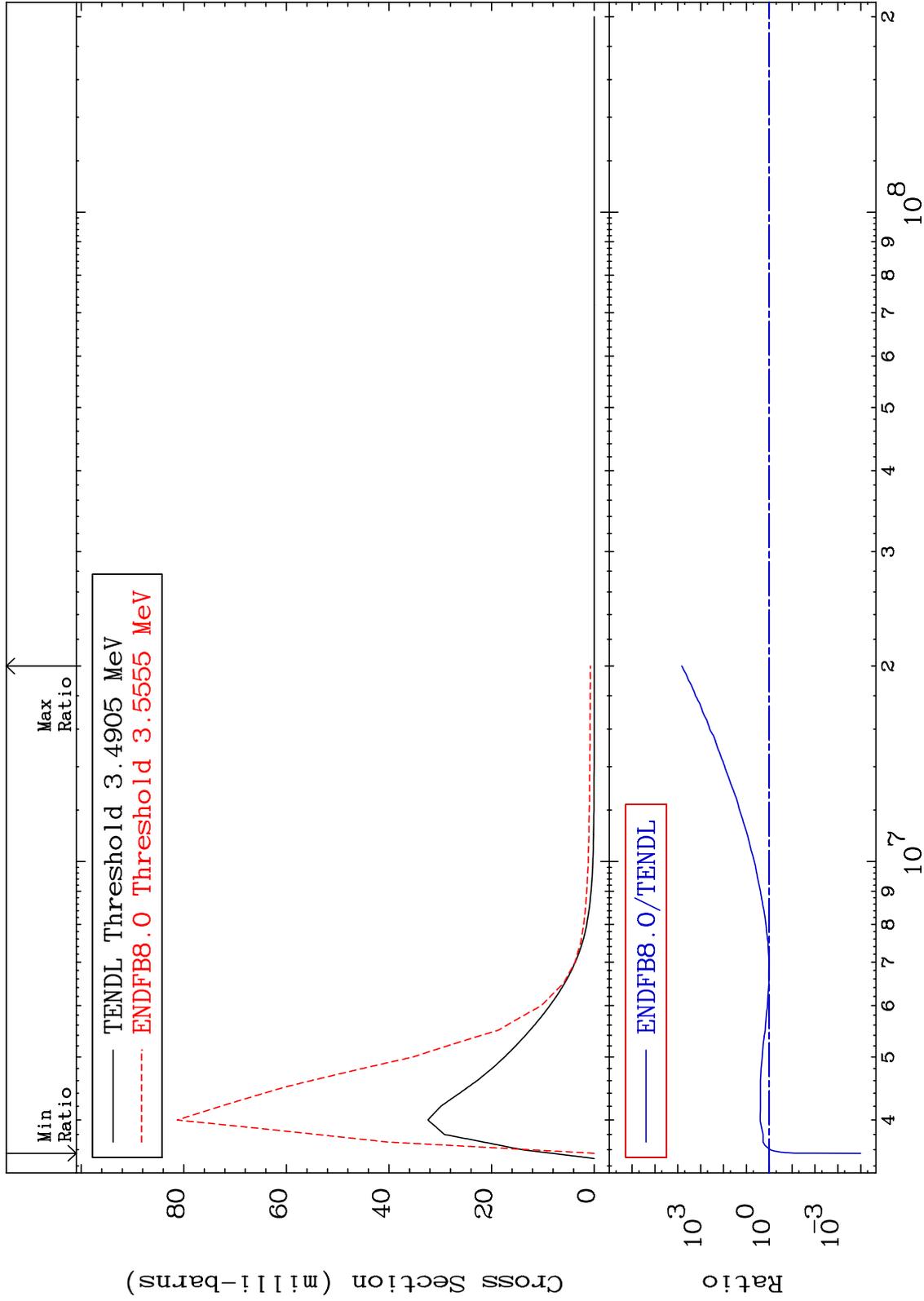
39-Y -89  
-99.99 To 3.772 %



MAT 3925

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

-99.99 To 9999. %  
39-Y -89



25

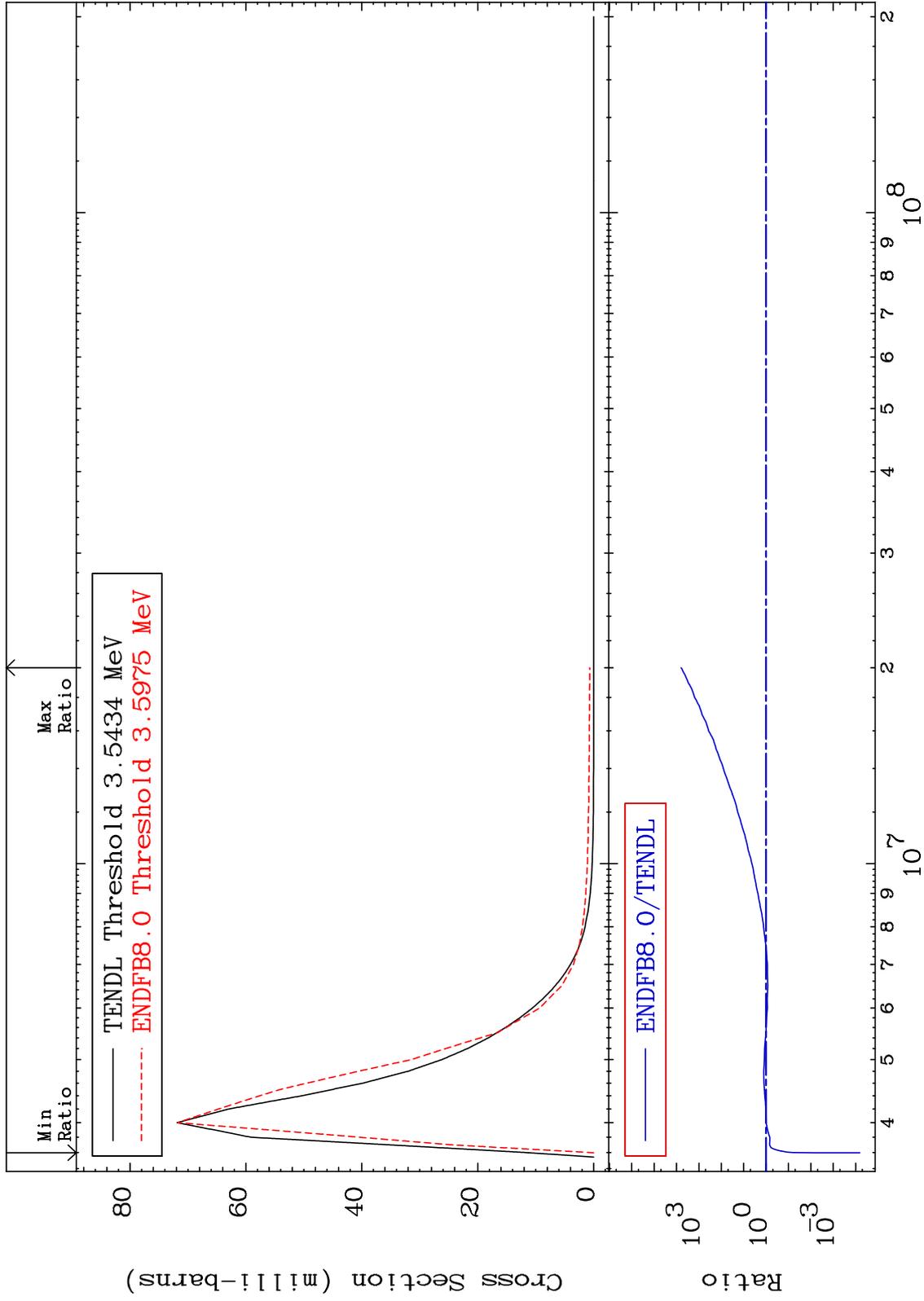
Incident Energy (eV)

39-Y -89

MAT 3925

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

39-Y -89  
-99.99 To 9999. %



26

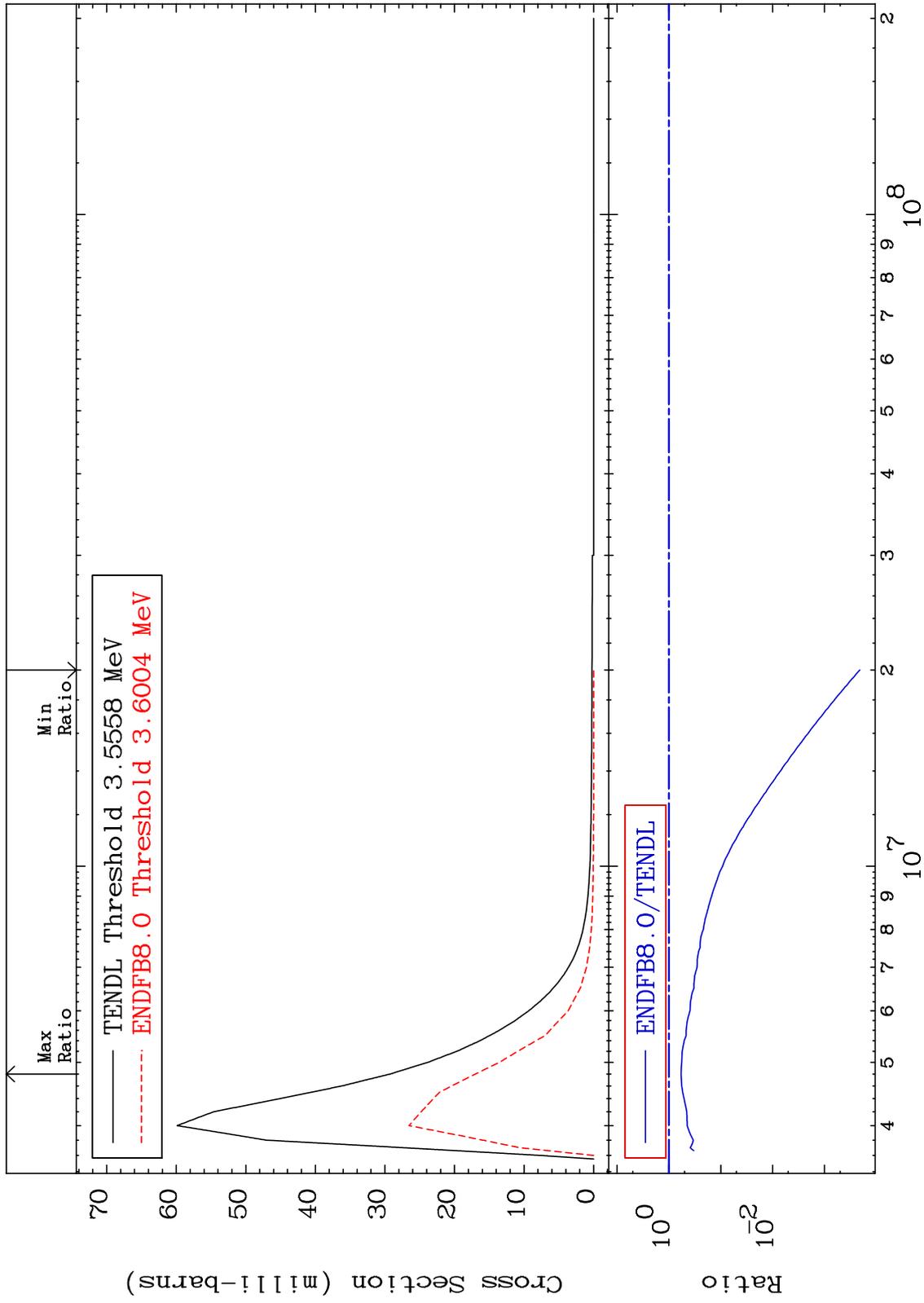
Incident Energy (eV)

39-Y -89

MAT 3925

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

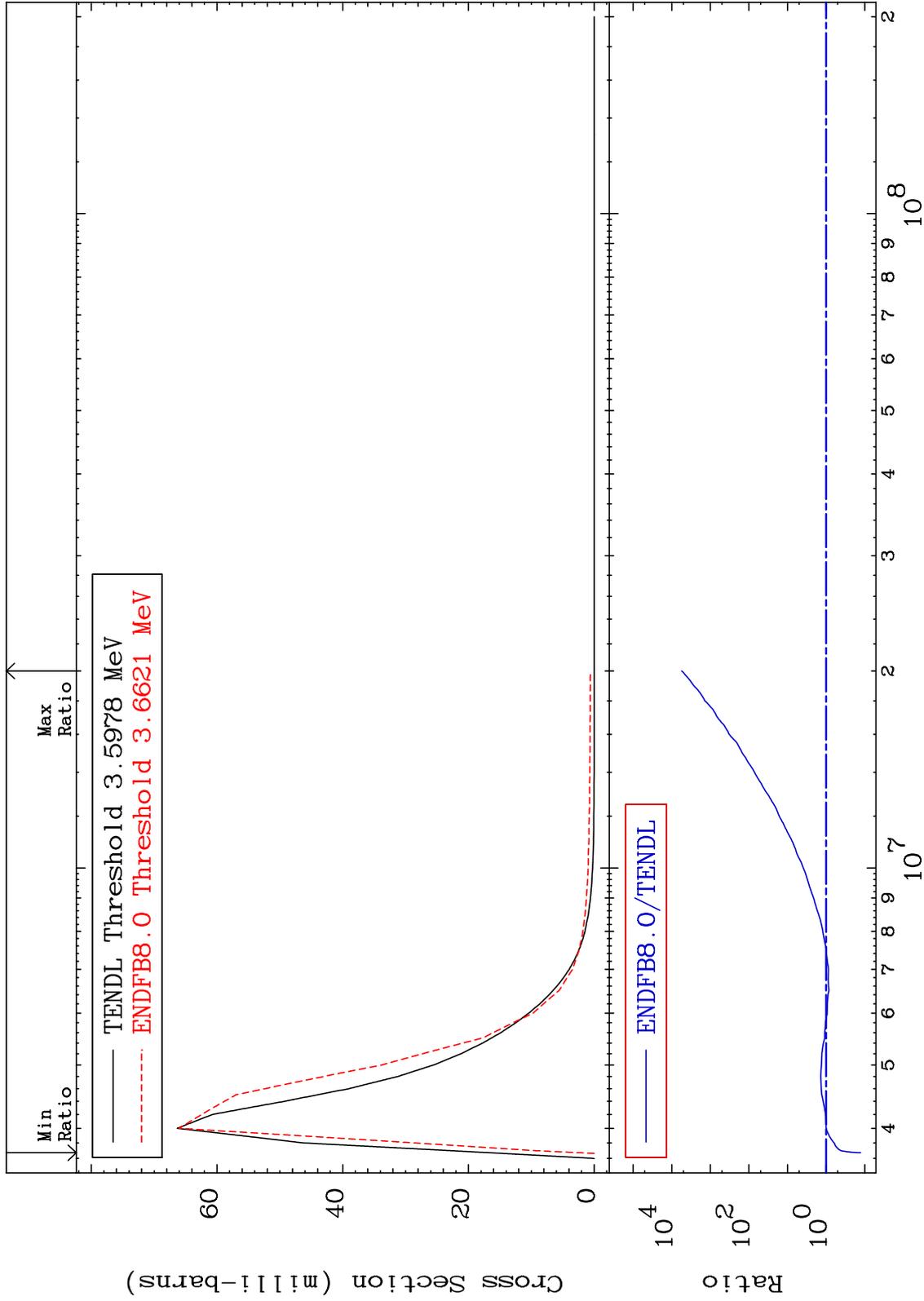
39-Y -89  
-99.98 To -41.86%



MAT 3925

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

39-Y -89  
-87.28 To 9999. %



28

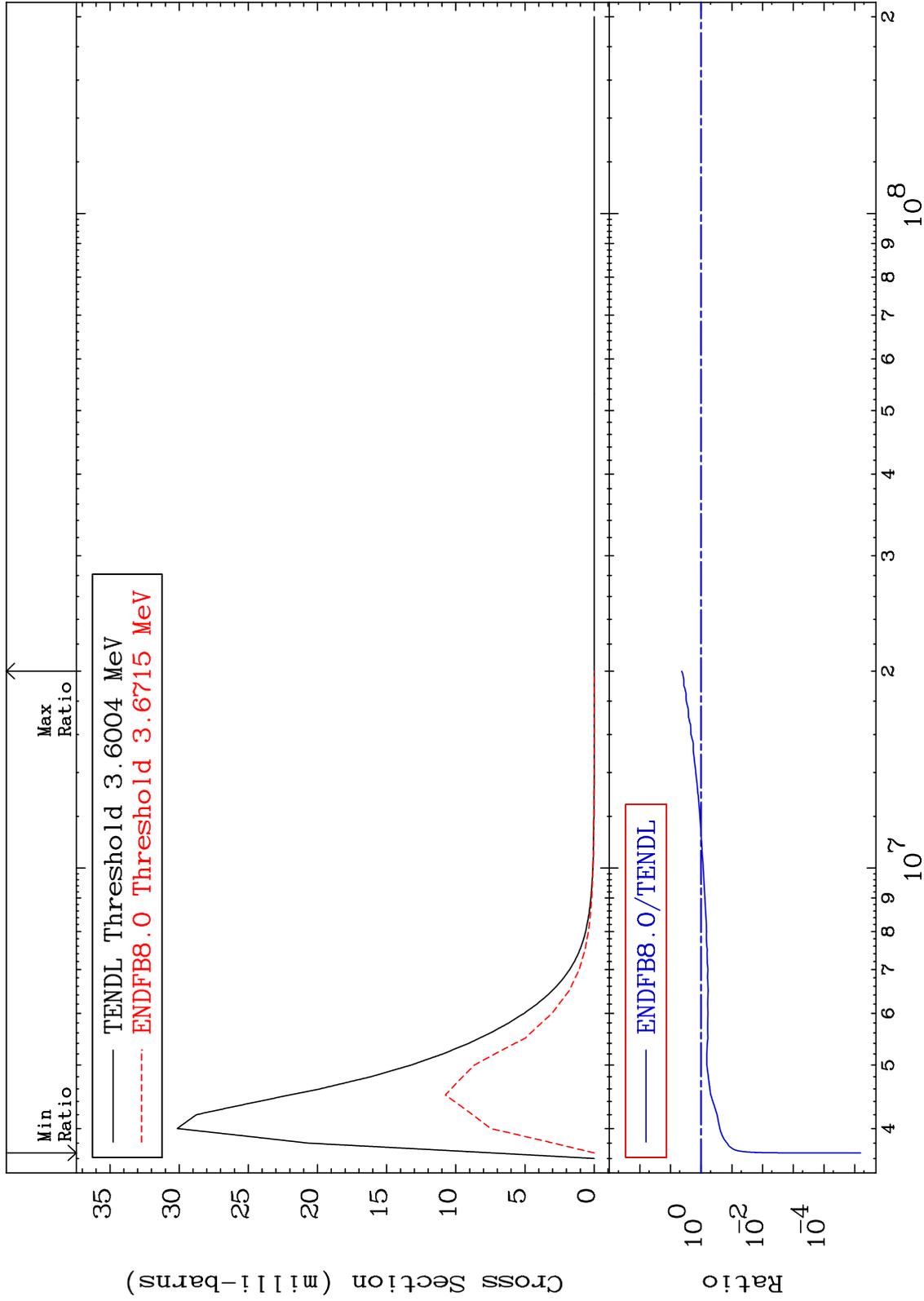
Incident Energy (eV)

39-Y -89

MAT 3925

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

39-Y -89  
-100.0 To 330.7 %

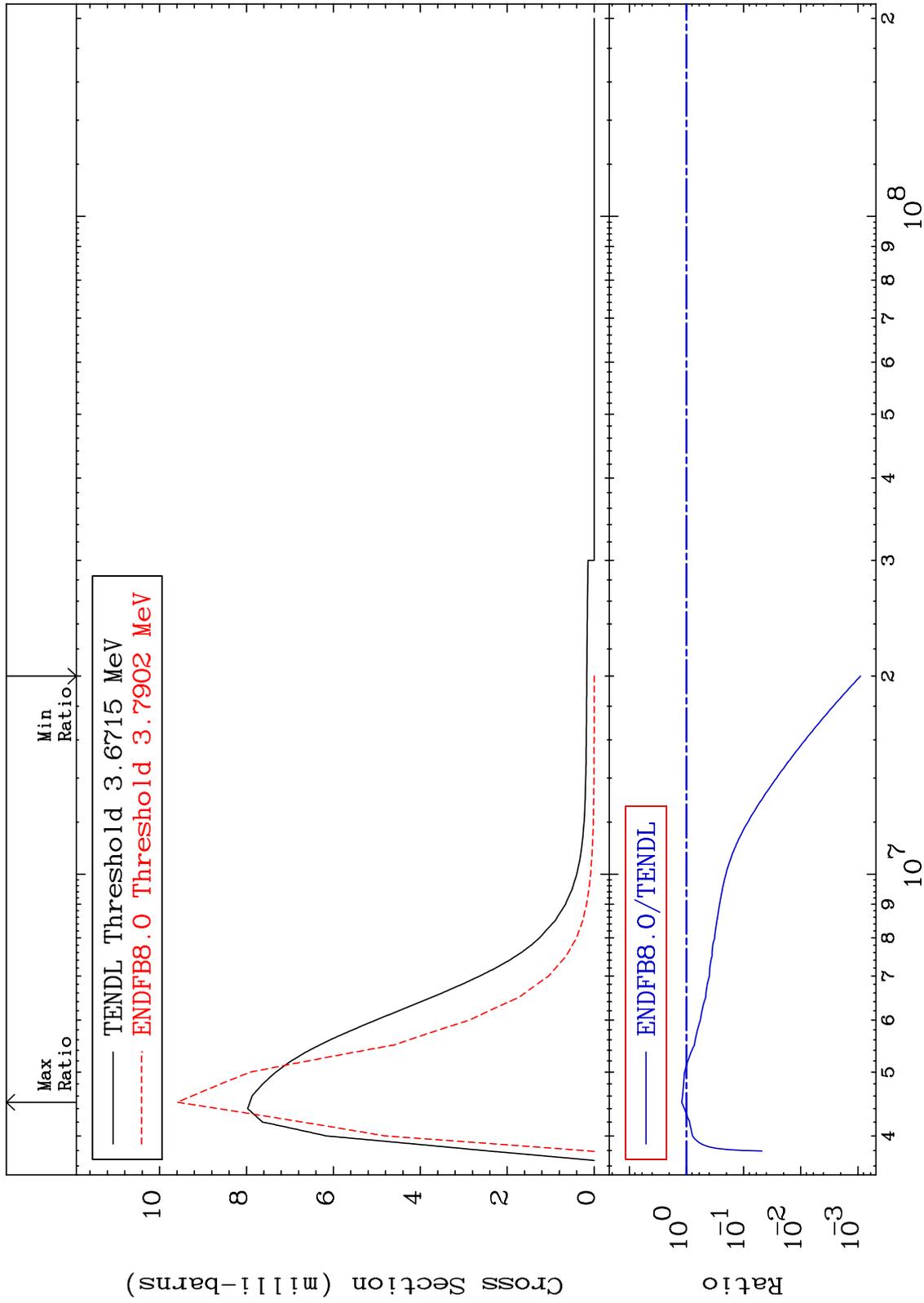




MAT 3925

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

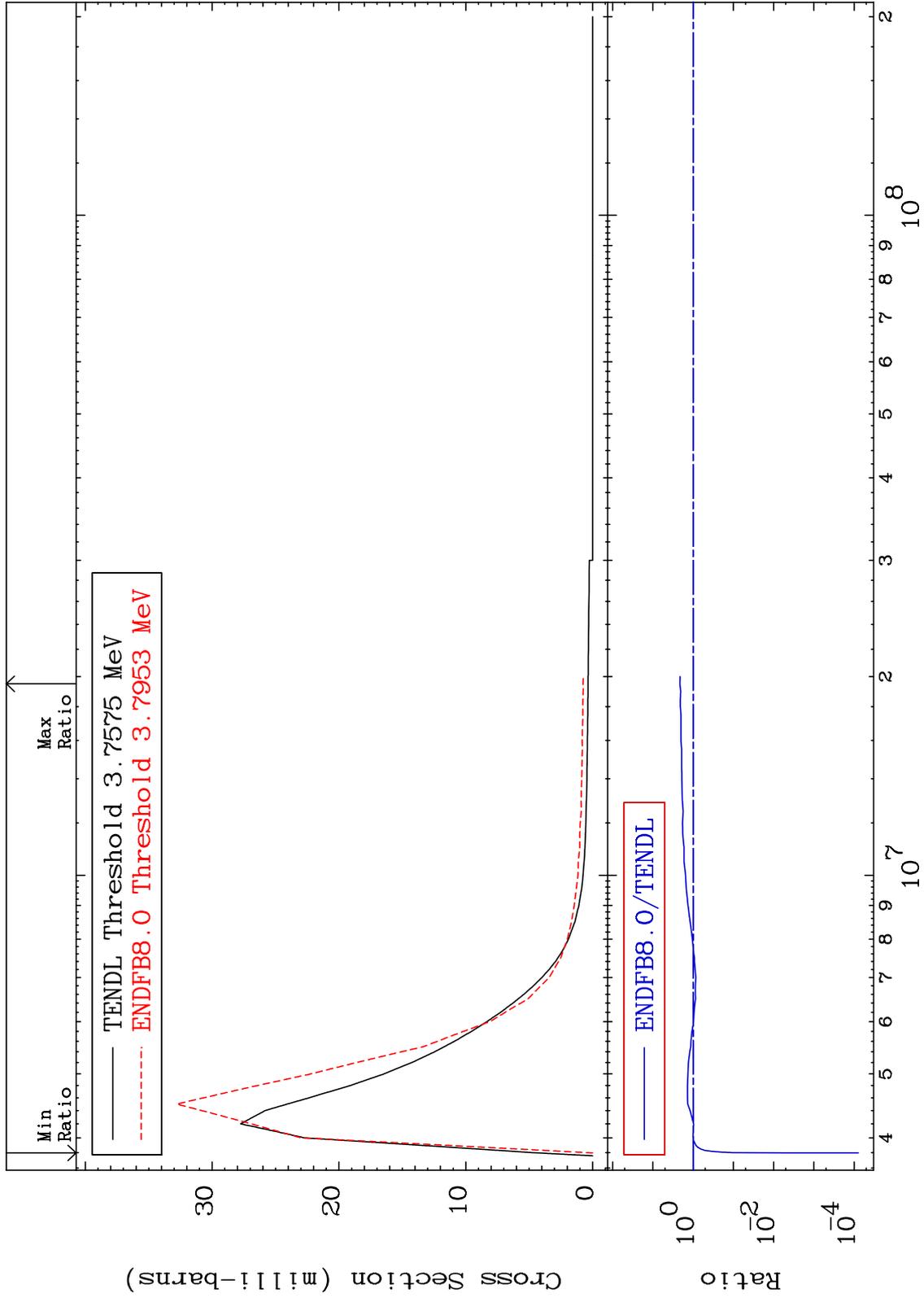
39-Y -89  
-99.91 To 21.10 %



MAT 3925

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

39-Y -89  
-99.99 To 112.2 %



32

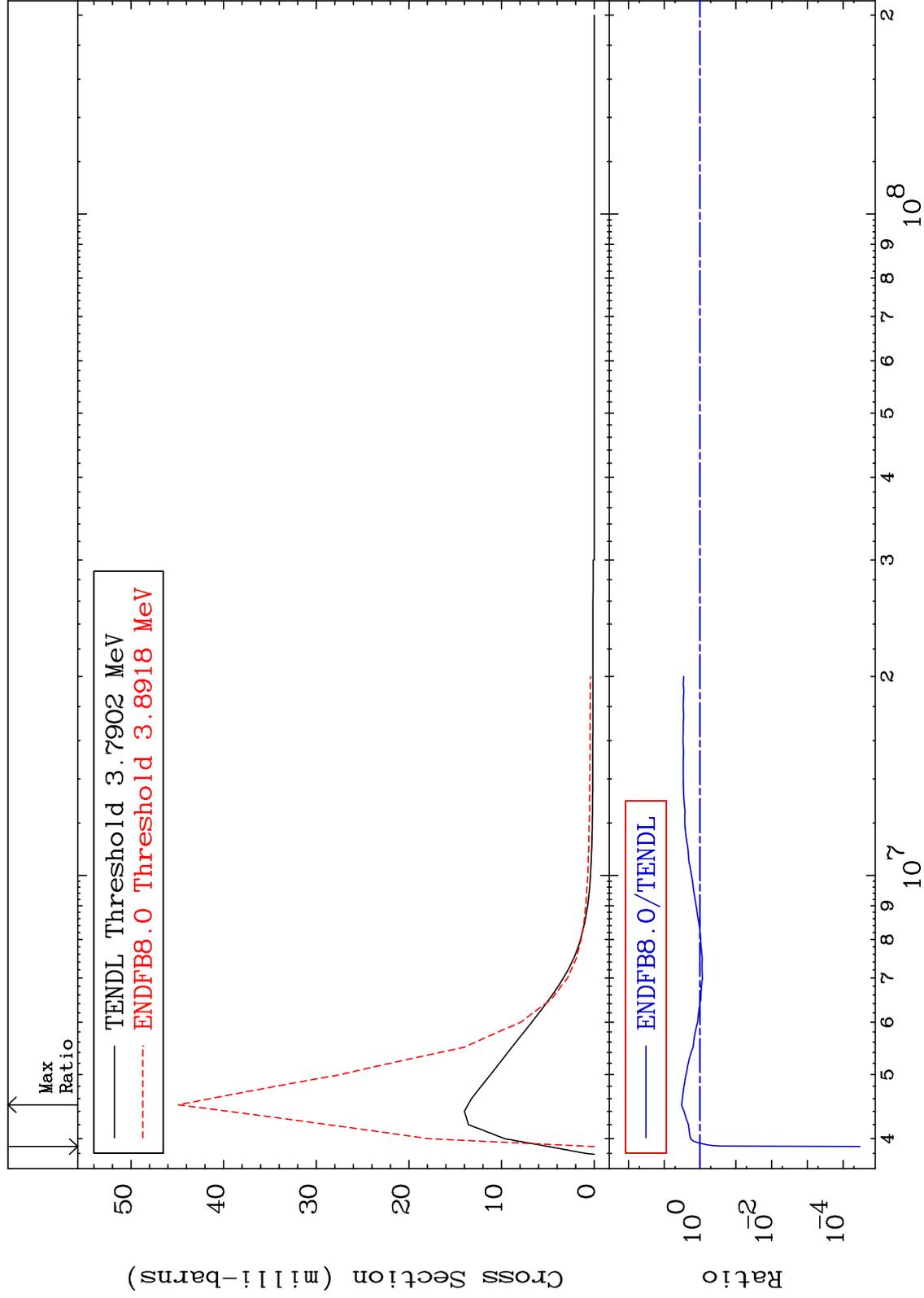
Incident Energy (eV)

39-Y -89

MAT 3925

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

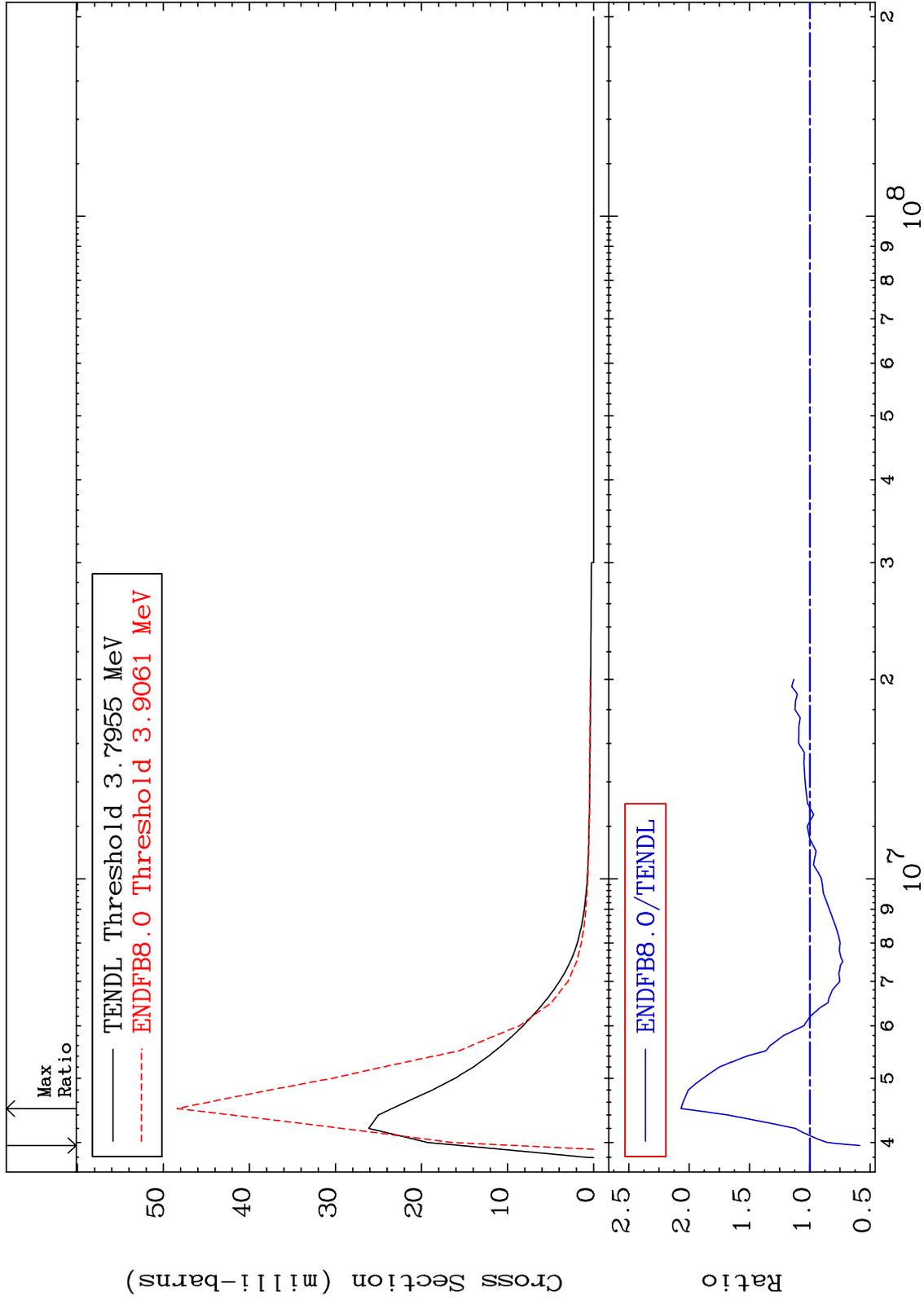
39-Y -89  
-100.0 To 229.4 %



MAT 3925

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

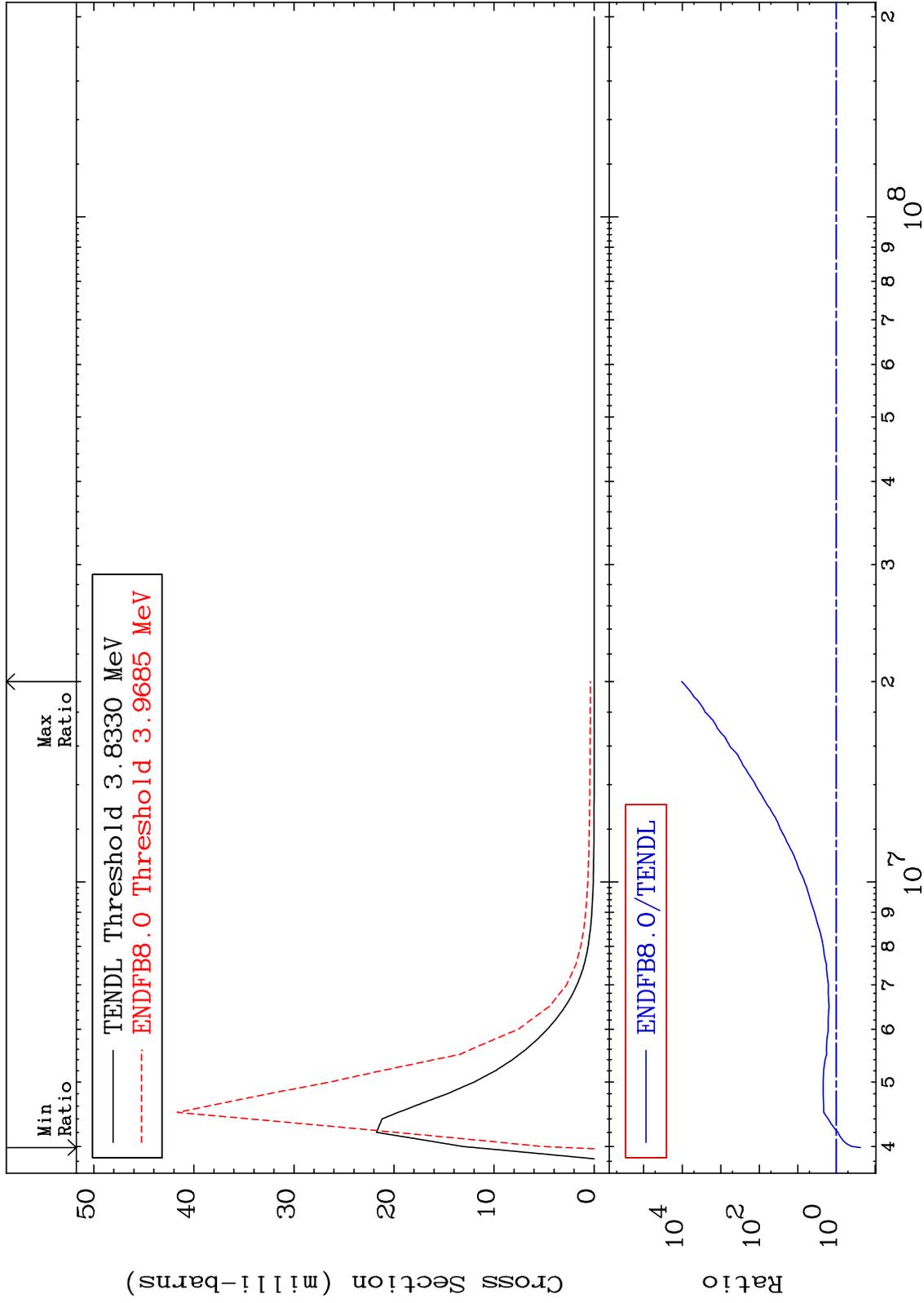
39-Y -89  
-41.56 To 106.6 %



MAT 3925

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

39-Y -89  
-76.52 To 9999. %



35

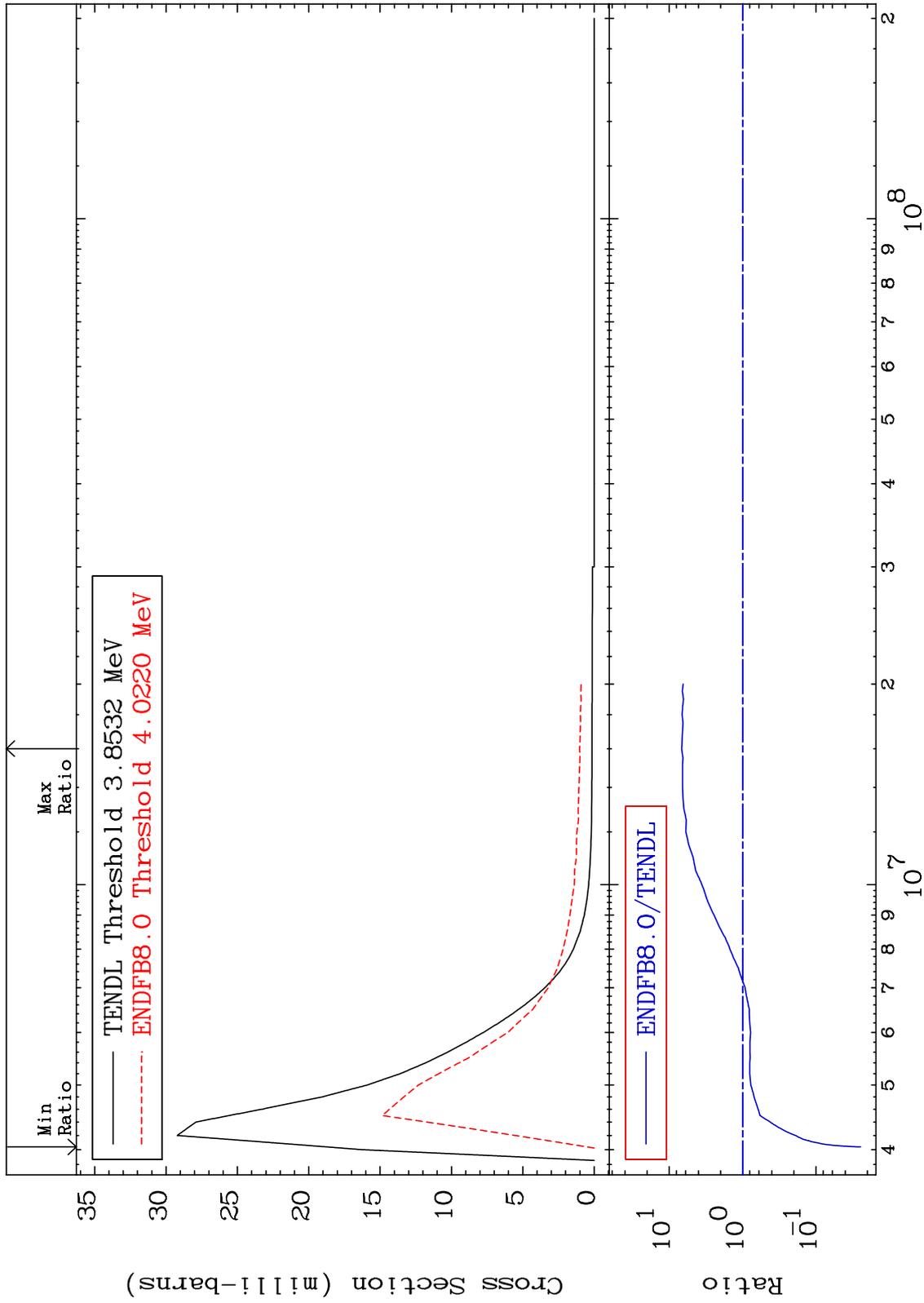
Incident Energy (eV)

39-Y -89

MAT 3925

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

39-Y -89  
-97.53 To 576.8 %



36

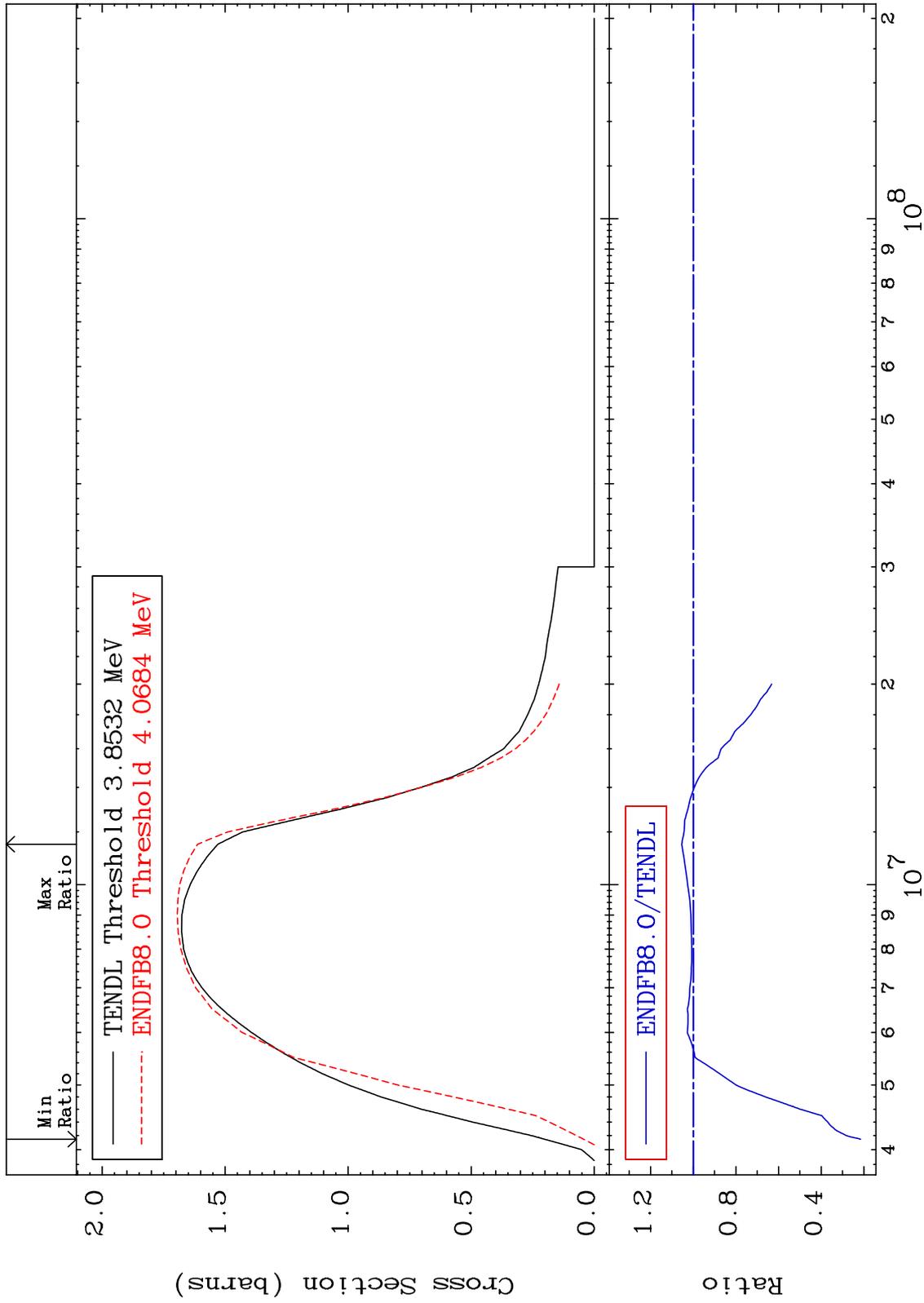
Incident Energy (eV)

39-Y -89

MAT 3925

(n,n') Continuum  
Cross Section

39-Y -89  
-78.51 To 5.372 %



37

Incident Energy (eV)

39-Y -89

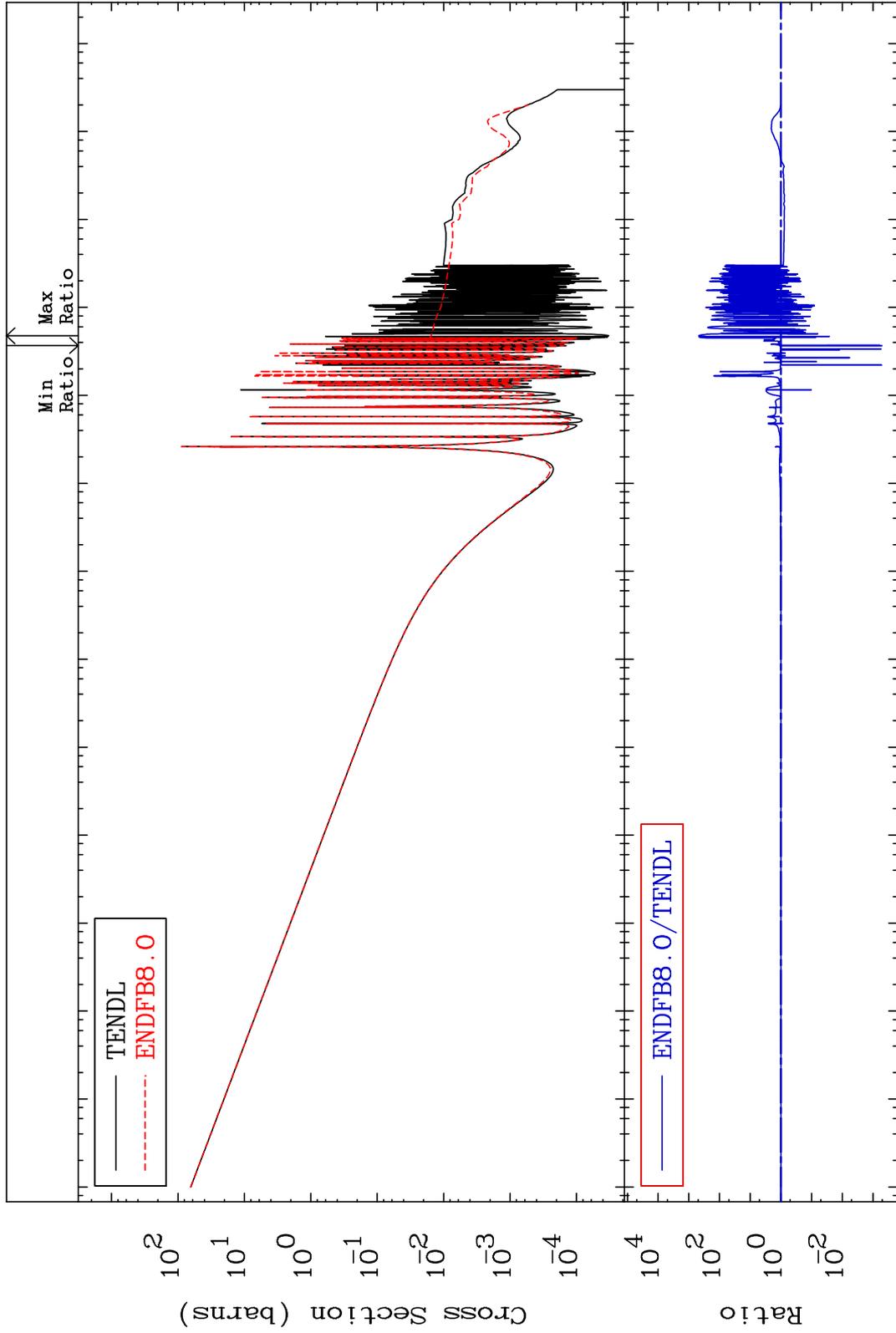
MAT 3925

(n,  $\gamma$ )

39-Y -89

Cross Section

-99.95 To 9999. %



38

Incident Energy (eV)

39-Y -89

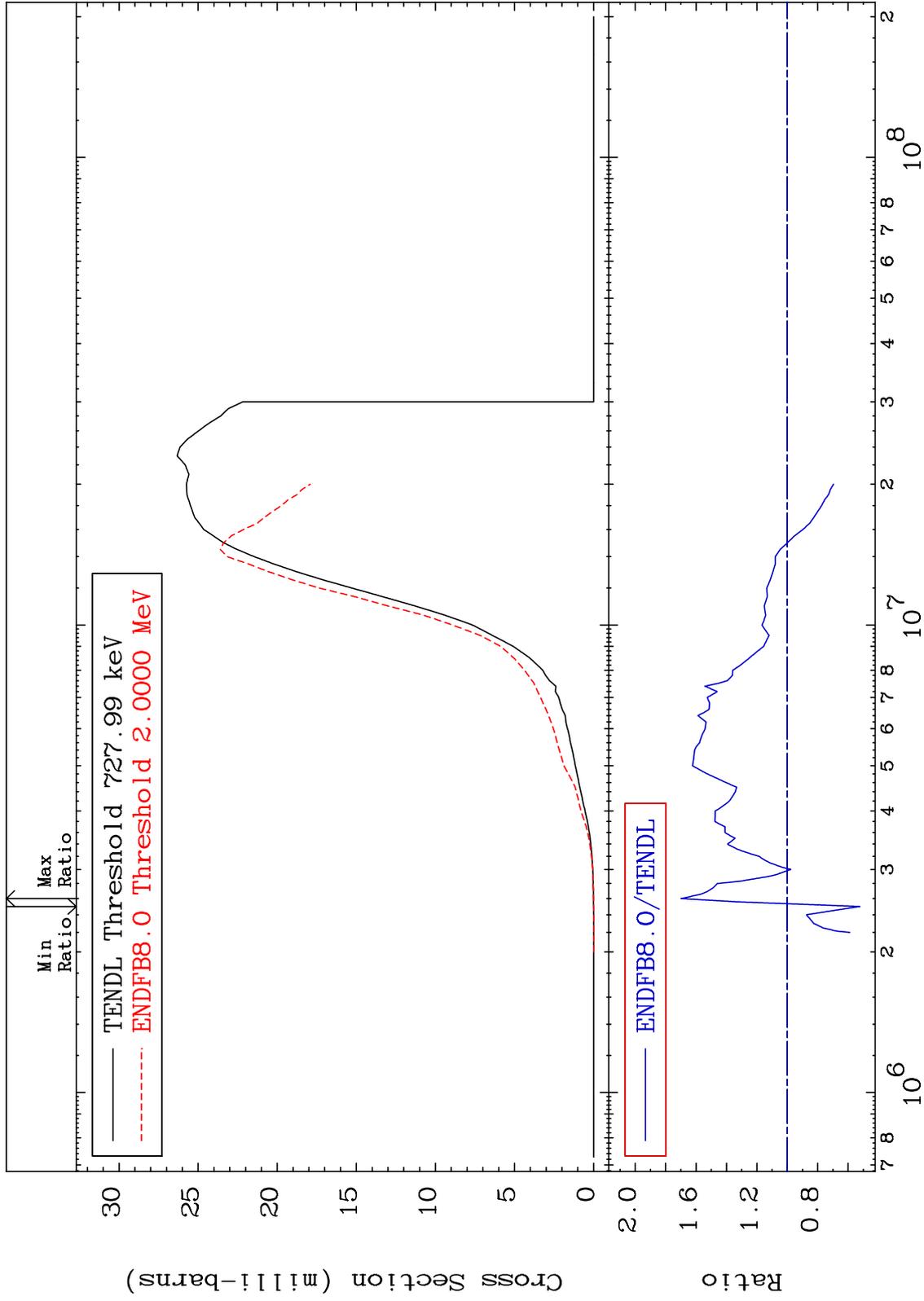
MAT 3925

(n,p)

39-Y -89

Cross Section

-47.73 To 69.81 %

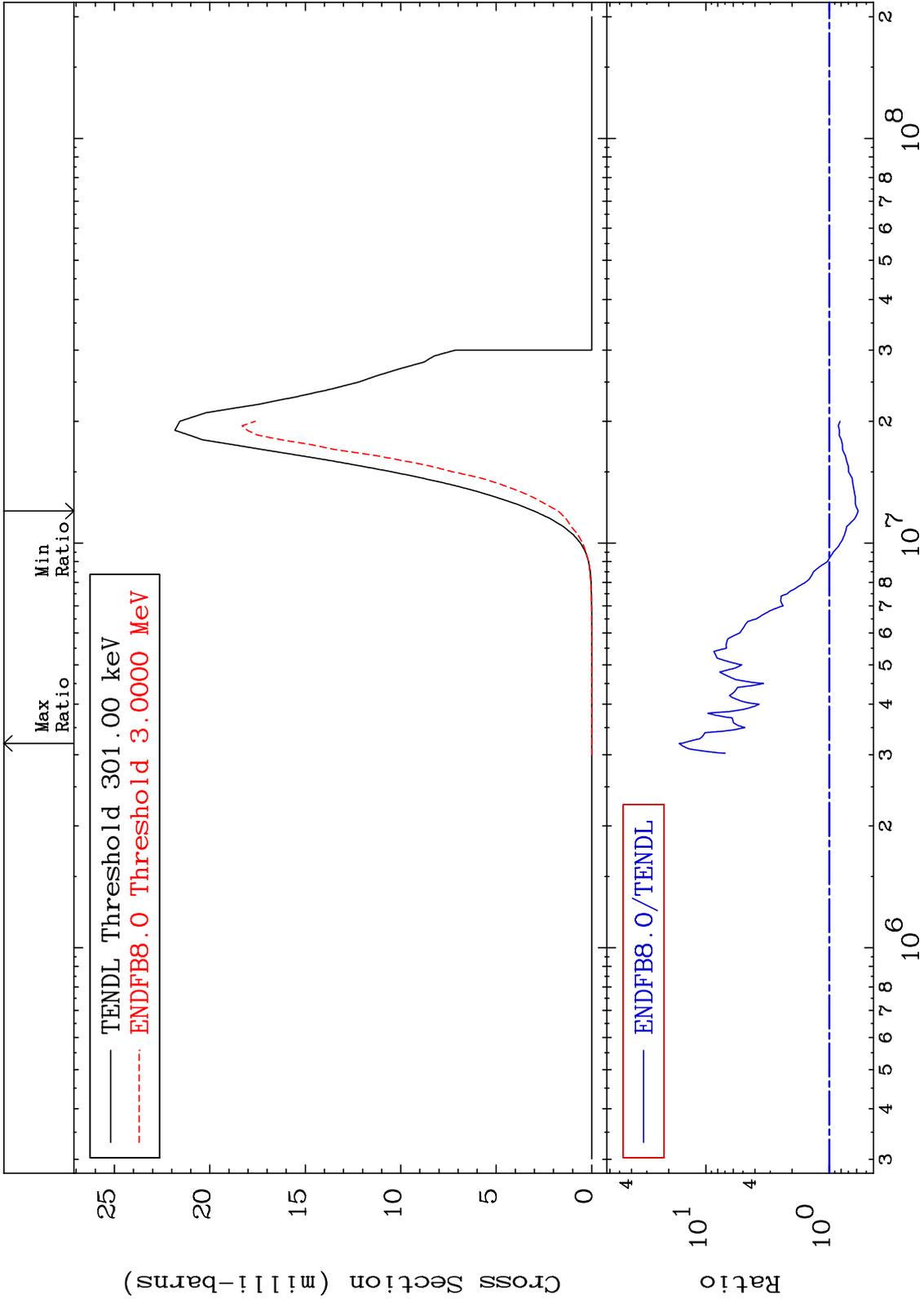


MAT 3925

39-Y -89

-41.81 To 1541. %

(n,  $\alpha$ )  
Cross Section



39-Y -89

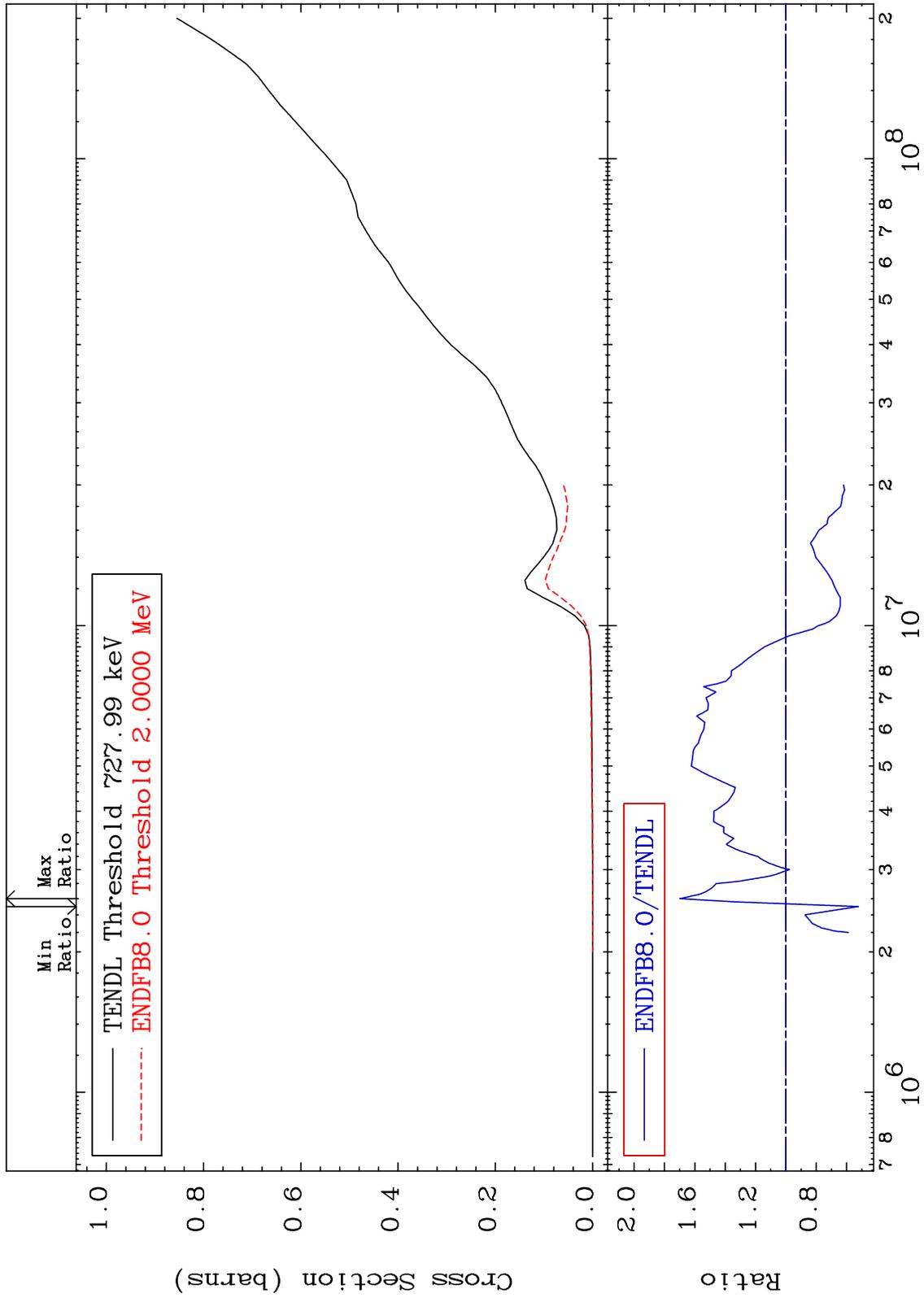
Incident Energy (eV)

40

MAT 3925

### Hydrogen Production Cross Section

39-Y -89  
-47.73 To 69.81 %



41

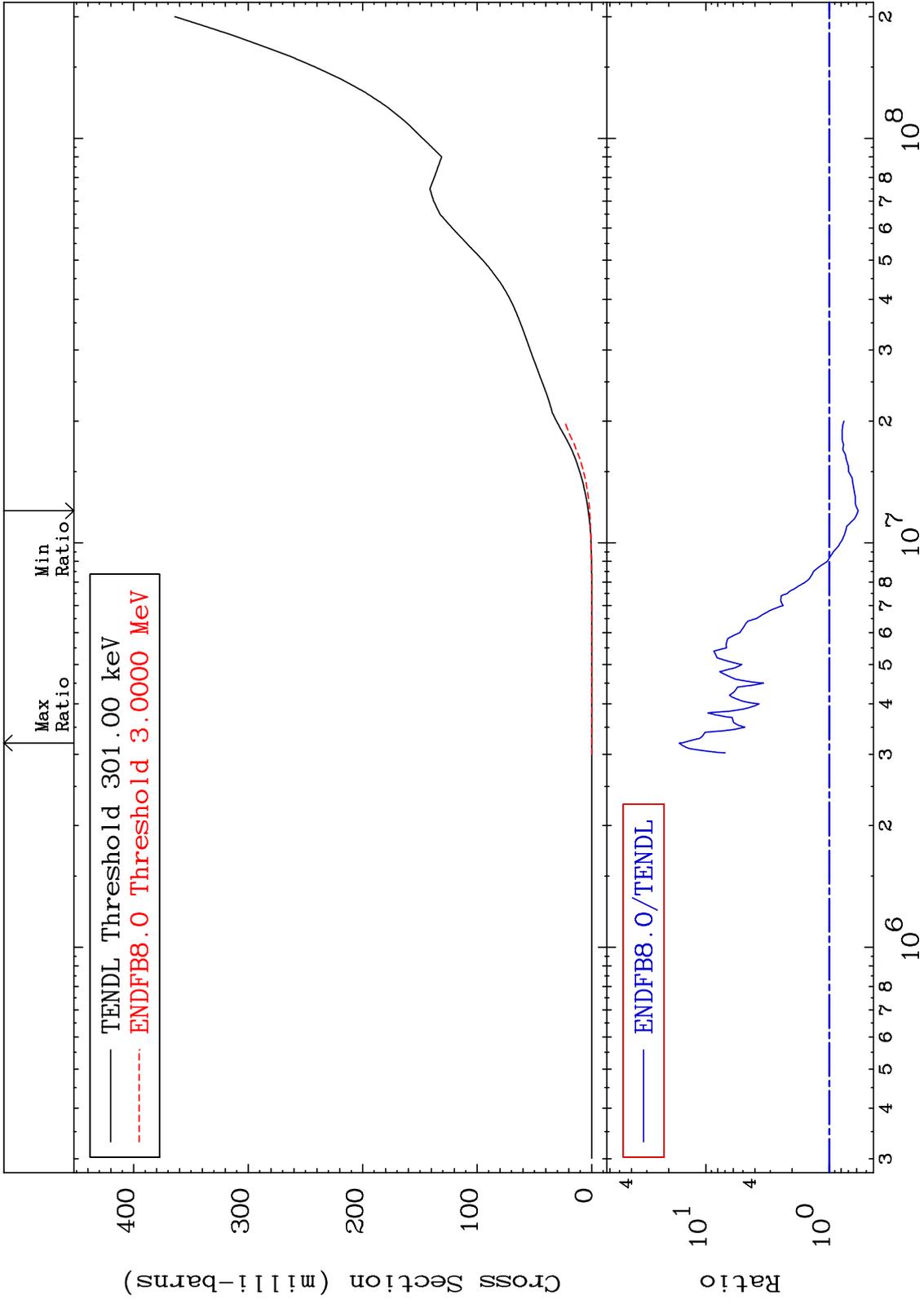
Incident Energy (eV)

39-Y -89

MAT 3925

He-4 Production  
Cross Section

39-Y -89  
-41.81 To 1541. %



42

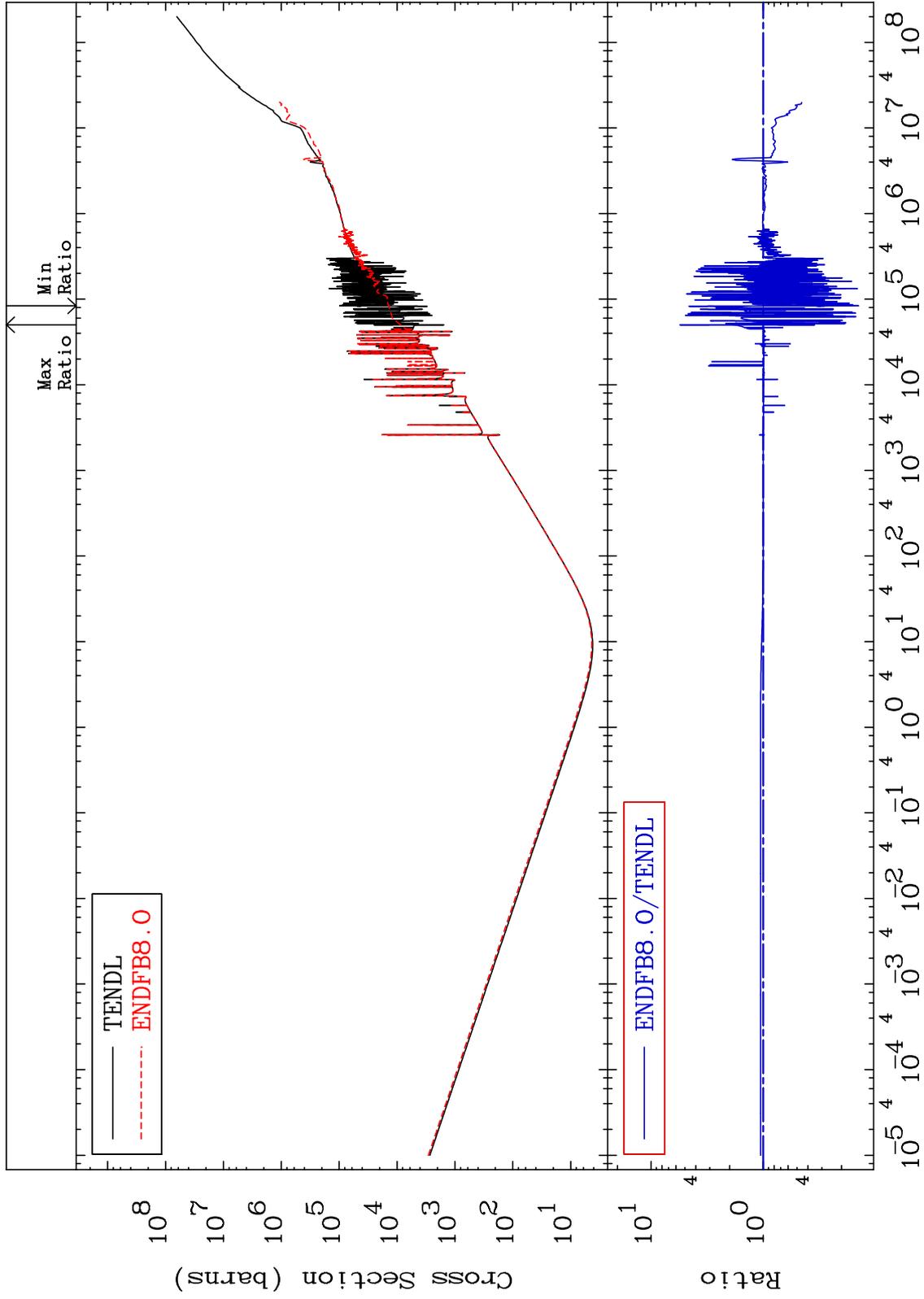
Incident Energy (eV)

39-Y -89

MAT 3925

Kerma total (eV-barns)  
Cross Section

39-Y -89  
-85.83 To 453.9 %



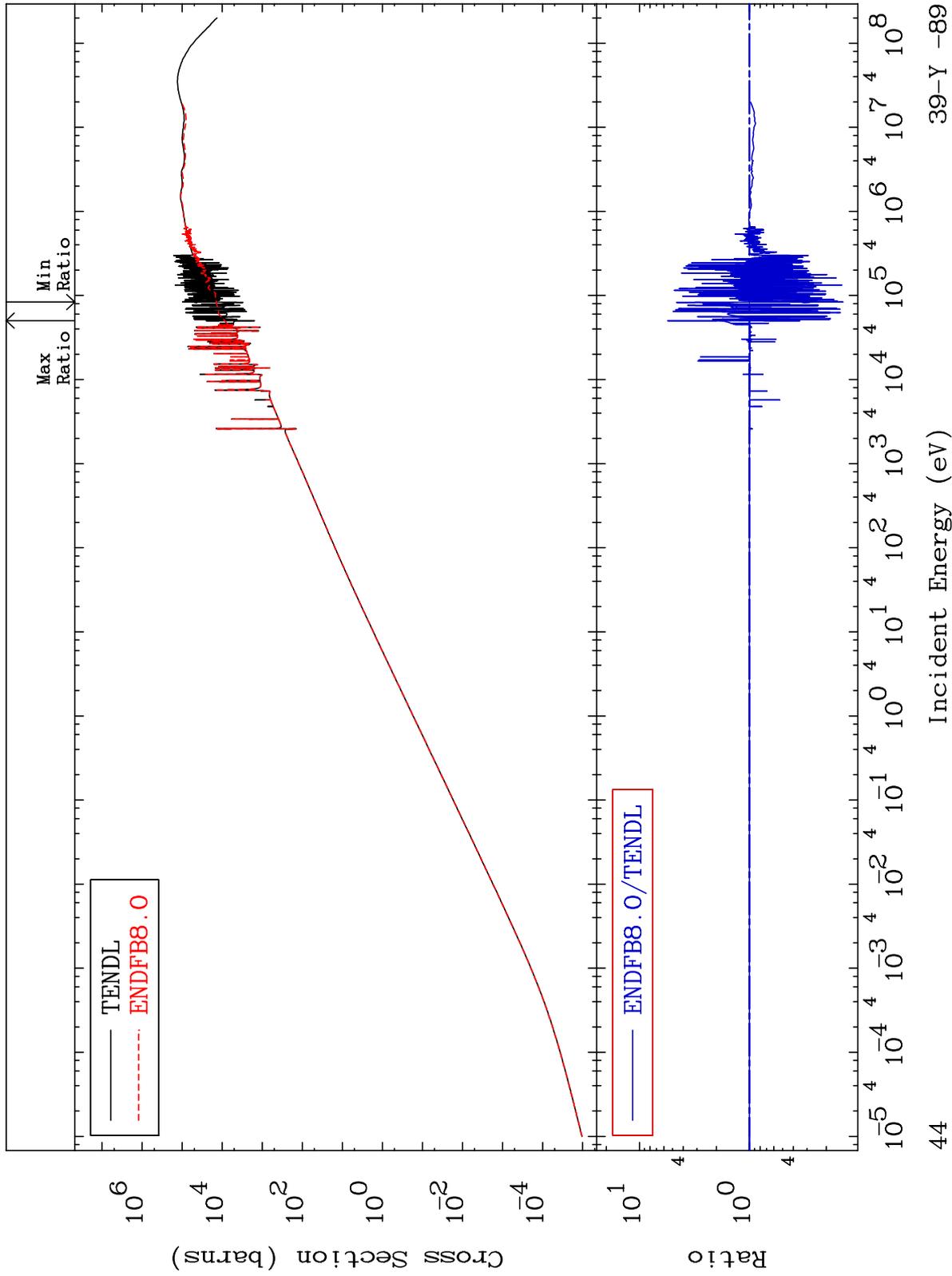
43

ENDFB8.0/TENDL

MAT 3925

Kerma elastic  
Cross Section

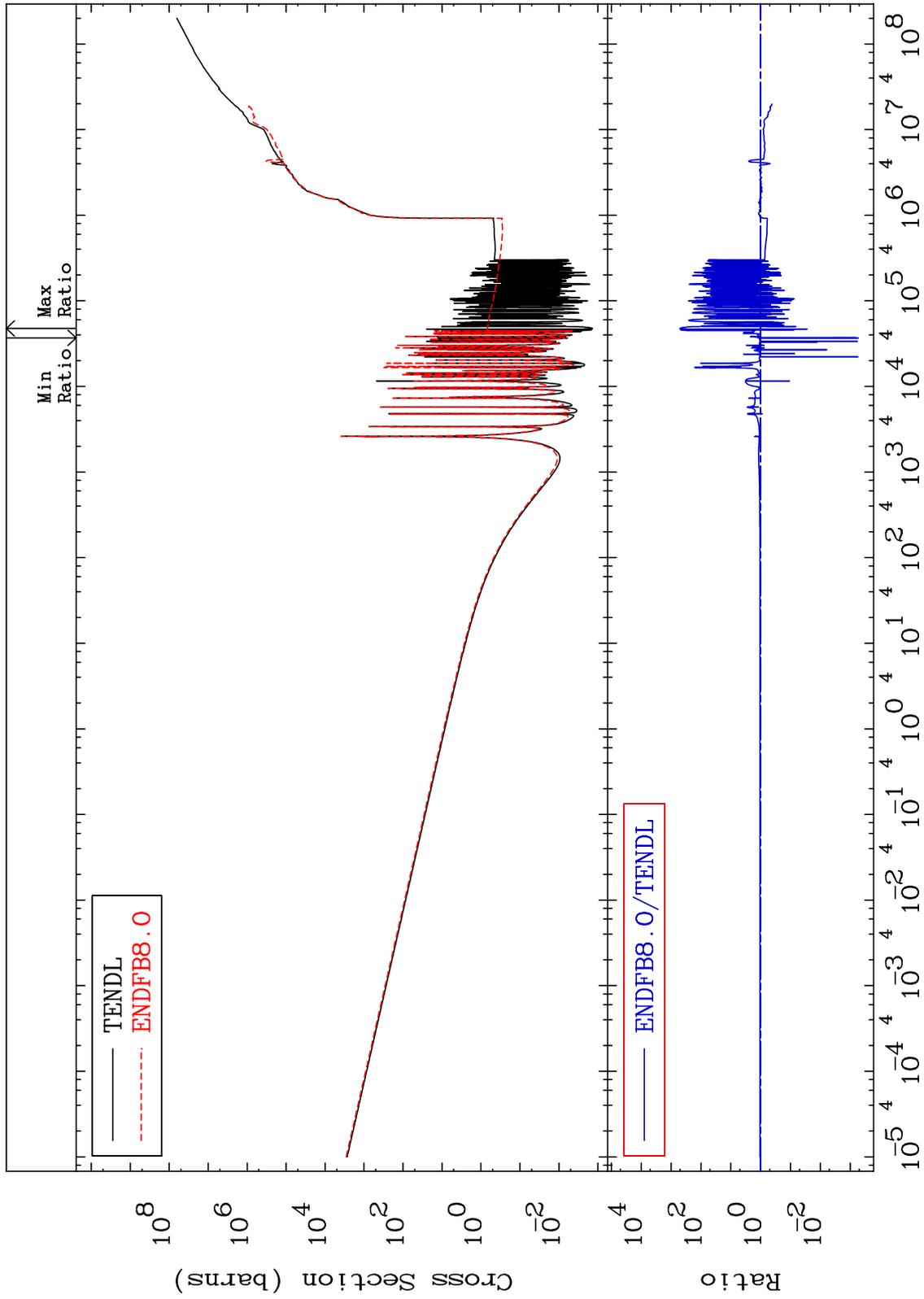
39-Y -89  
-85.83 To 454.2 %



MAT 3925

Kerma non-elastic (all but mt2)  
Cross Section

39-Y -89  
-99.95 To 9999. %



45

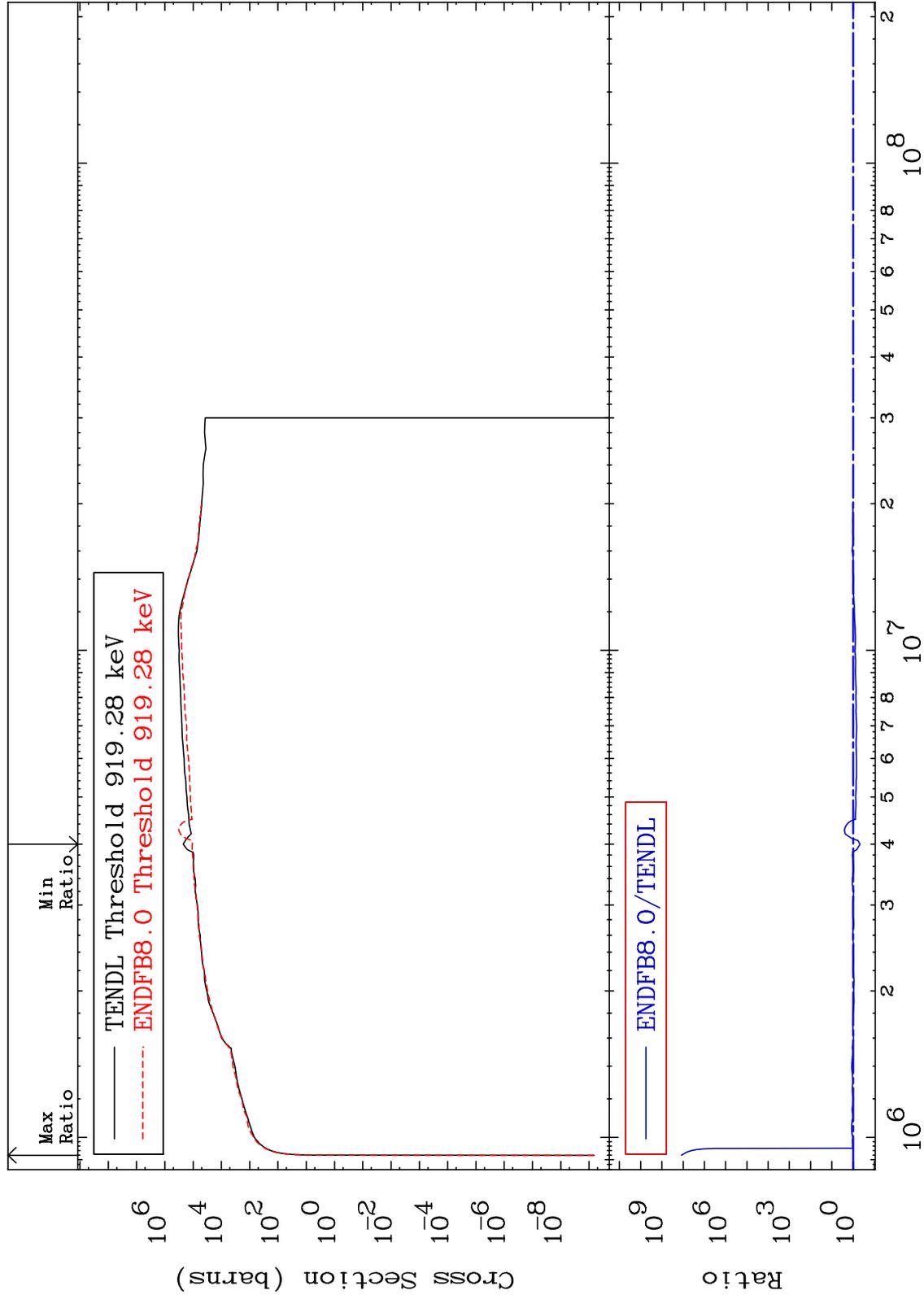
Incident Energy (eV)

39-Y -89

MAT 3925

Kerma inelastic (mt51-91)  
Cross Section

39-Y -89  
-52.67 To 9999. %



46

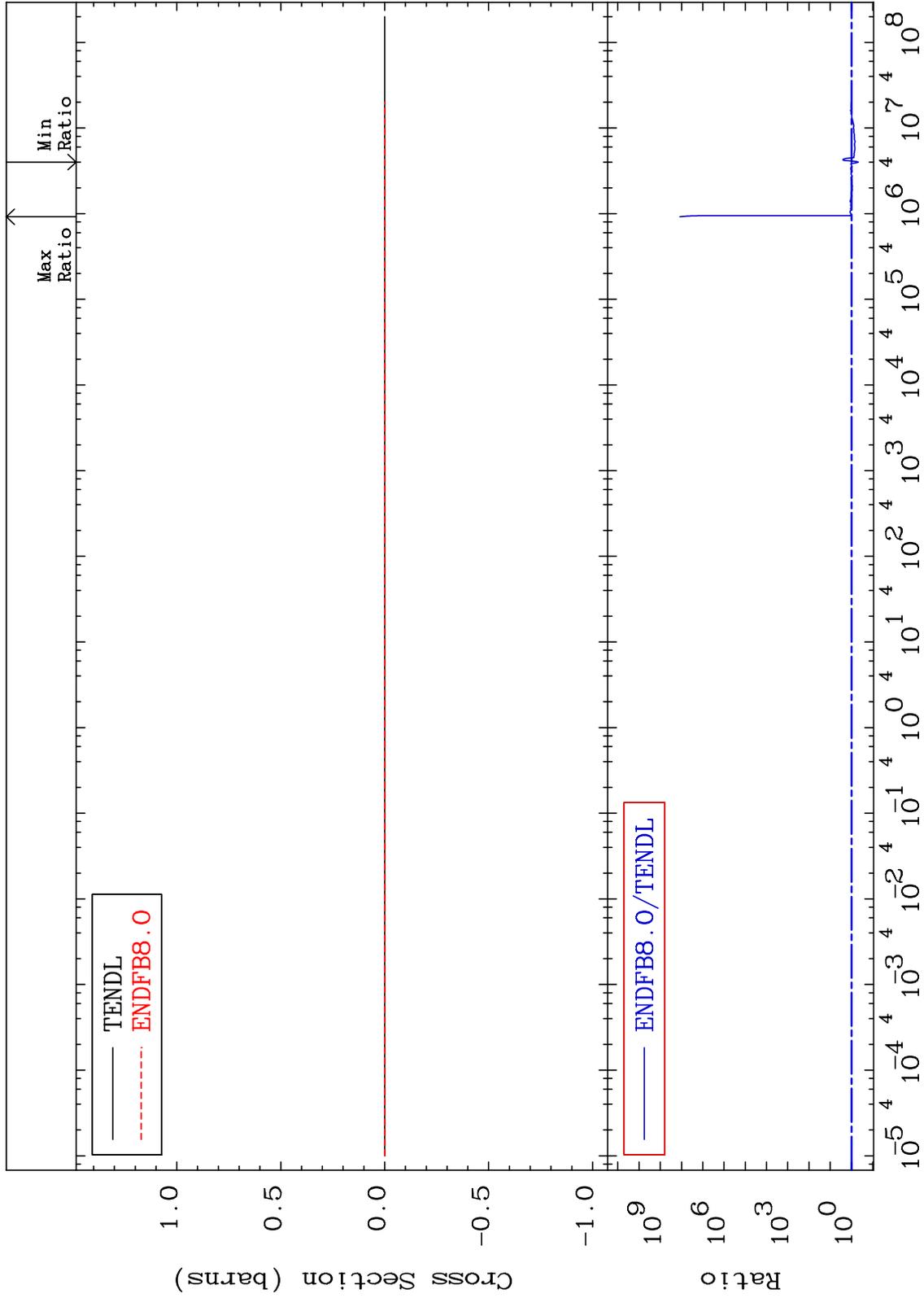
Incident Energy (eV)

39-Y -89

MAT 3925

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

39-Y -89  
-52.67 To 9999. %



47

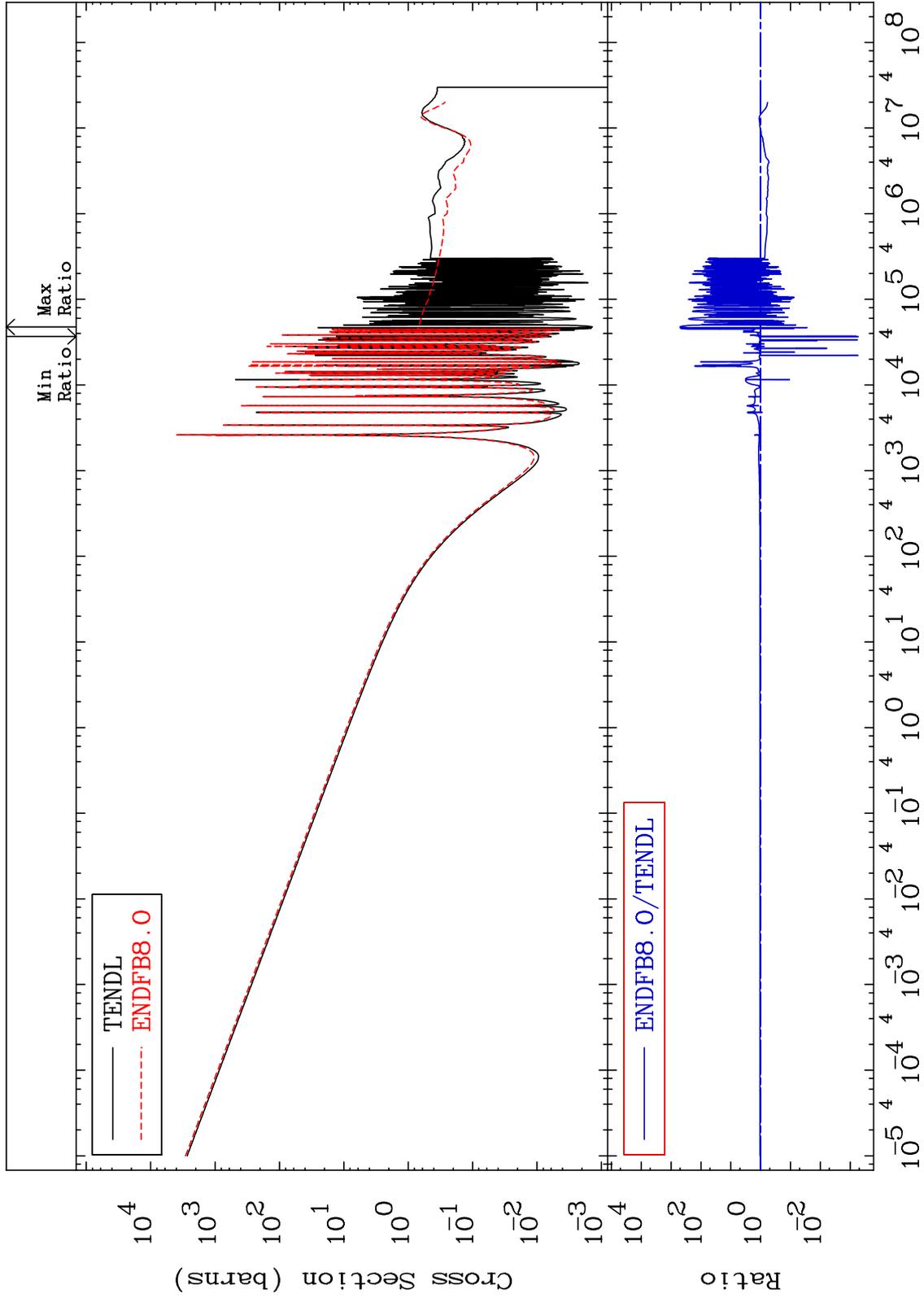
Incident Energy (eV)

39-Y -89

MAT 3925

Kerma capture (mt102)  
Cross Section

39-Y -89  
-99.95 To 9999. %



48

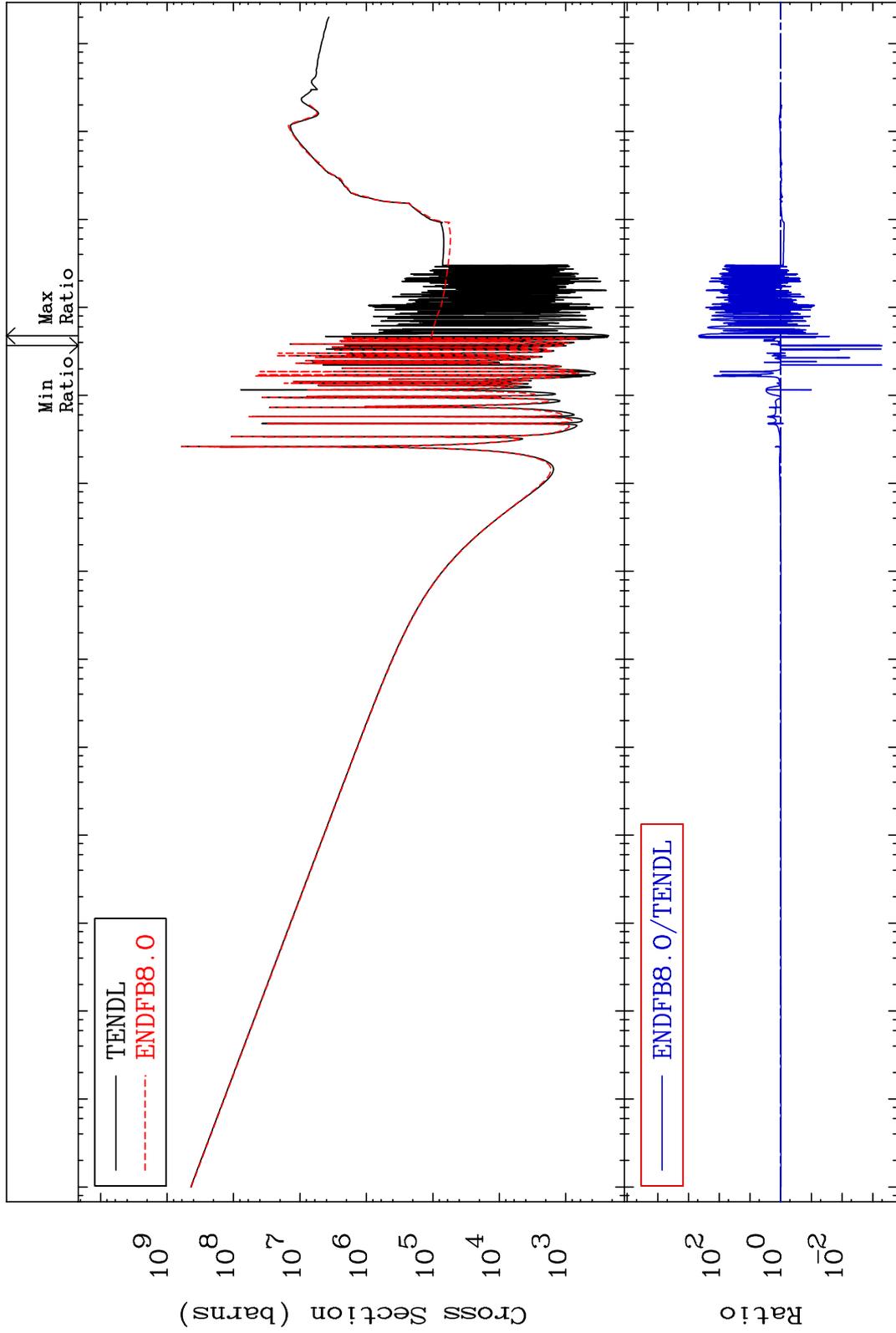
Incident Energy (eV)

39-Y -89

MAT 3925

Total photon (eV-barns)  
Cross Section

39-Y -89  
-99.95 To 9999. %



49

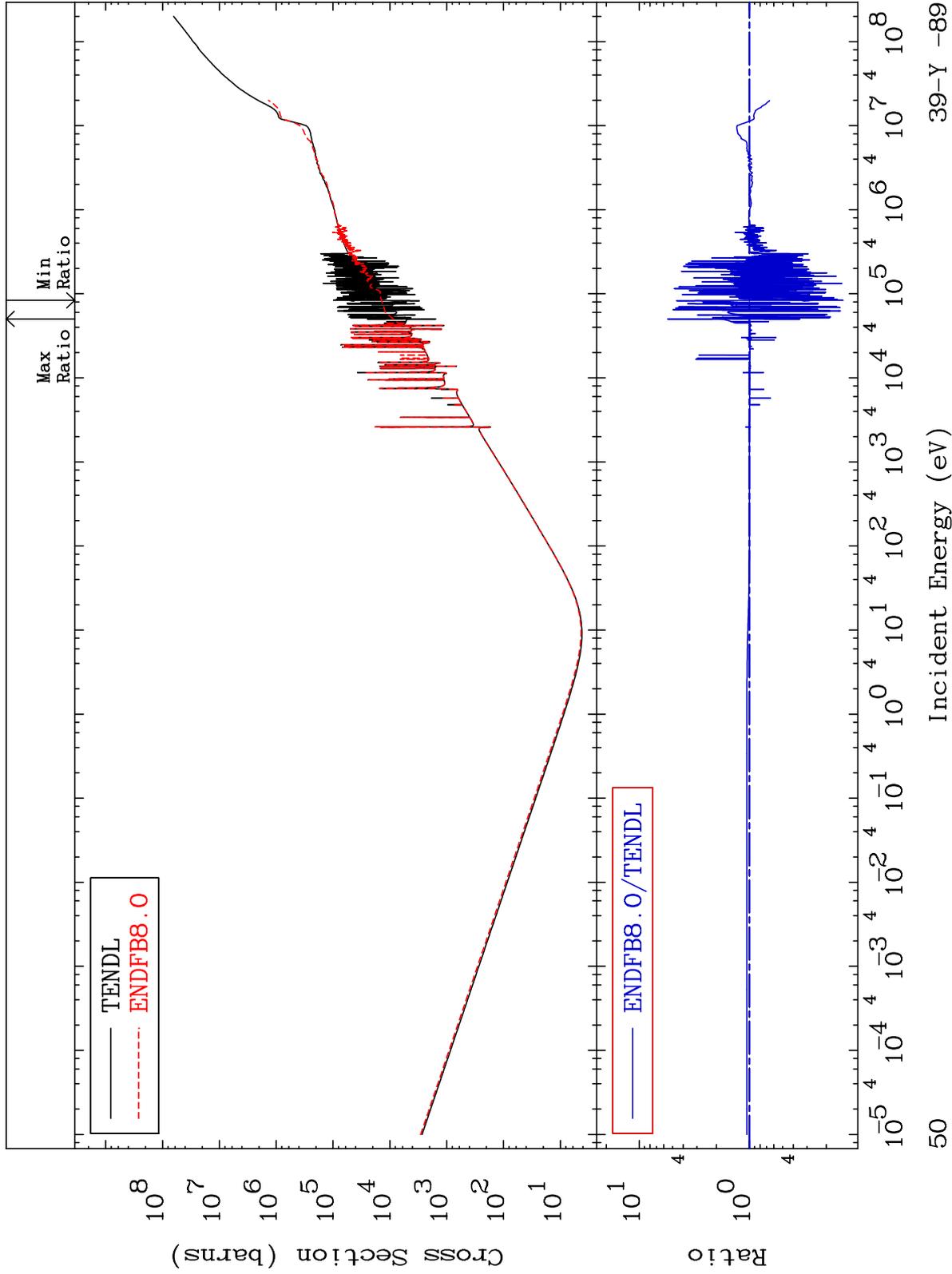
Incident Energy (eV)

39-Y -89

MAT 3925

Total kinematic kerma (high limit)  
Cross Section

39-Y -89  
-85.83 To 453.9 %



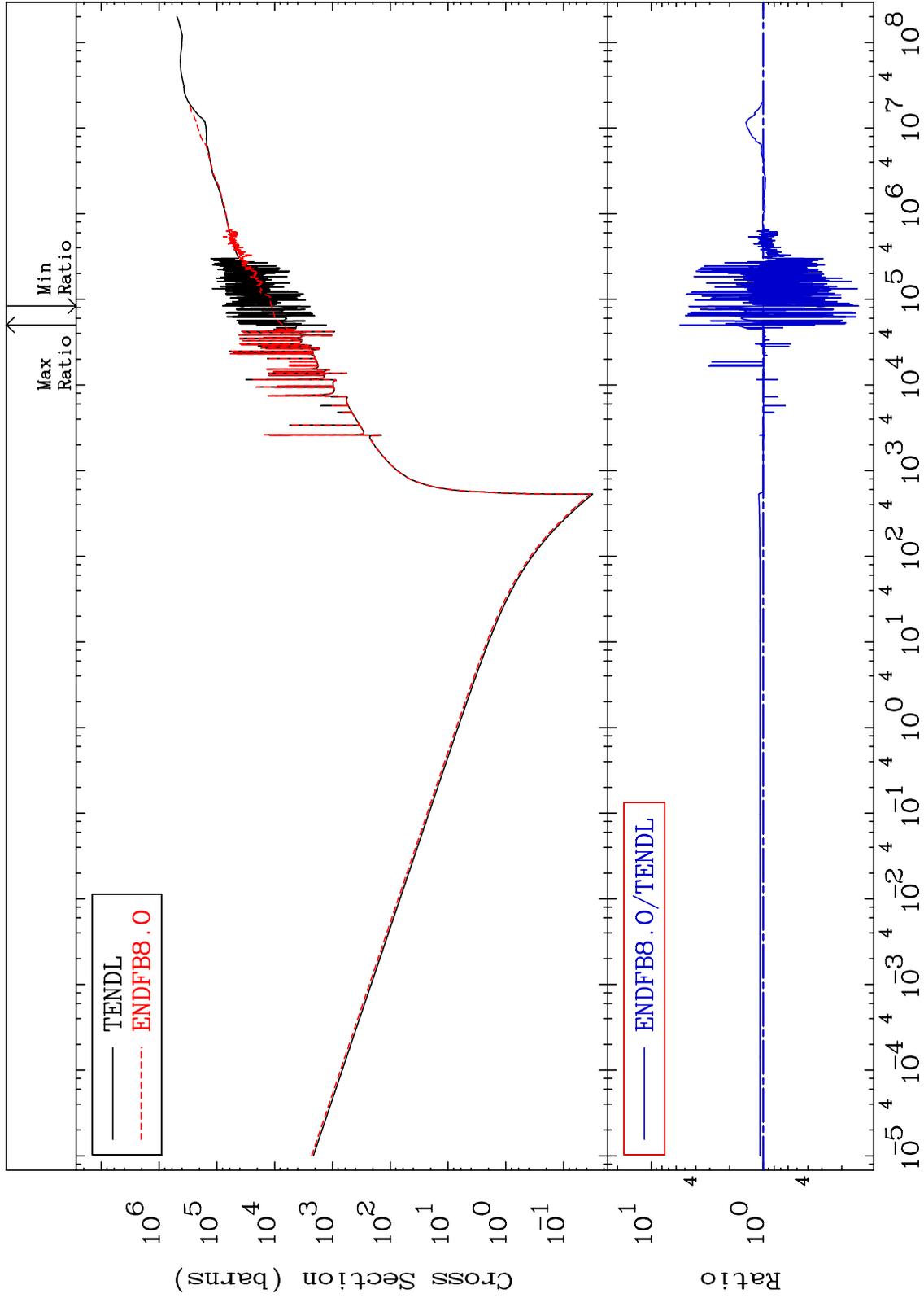
50

39-Y -89

MAT 3925

Dpa total (eV-barns)  
Cross Section

39-Y -89  
-85.81 To 454.2 %



51

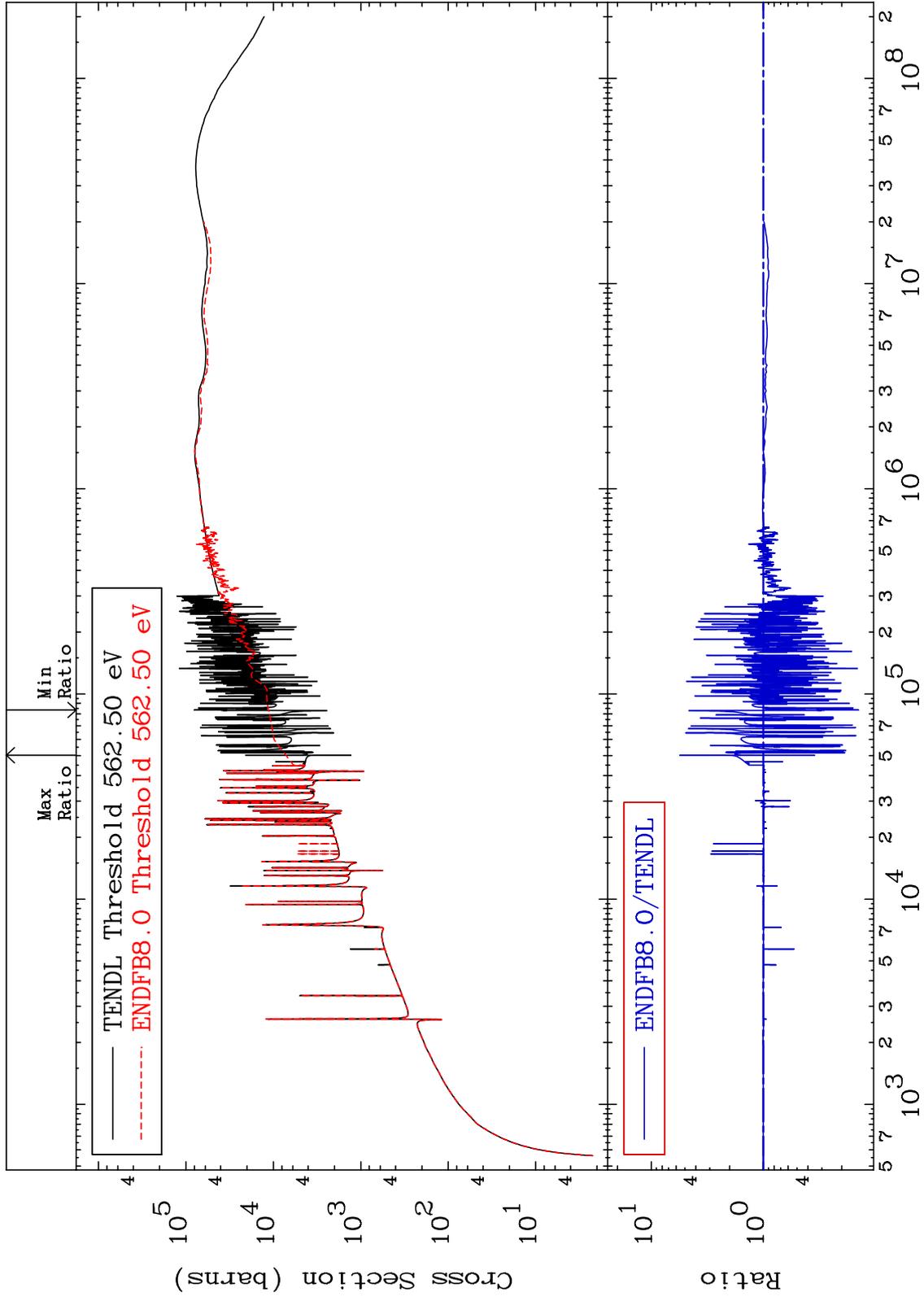
Incident Energy (eV)

39-Y -89

MAT 3925

Dpa elastic (mt2)  
Cross Section

39-Y -89  
-85.81 To 454.5 %



52

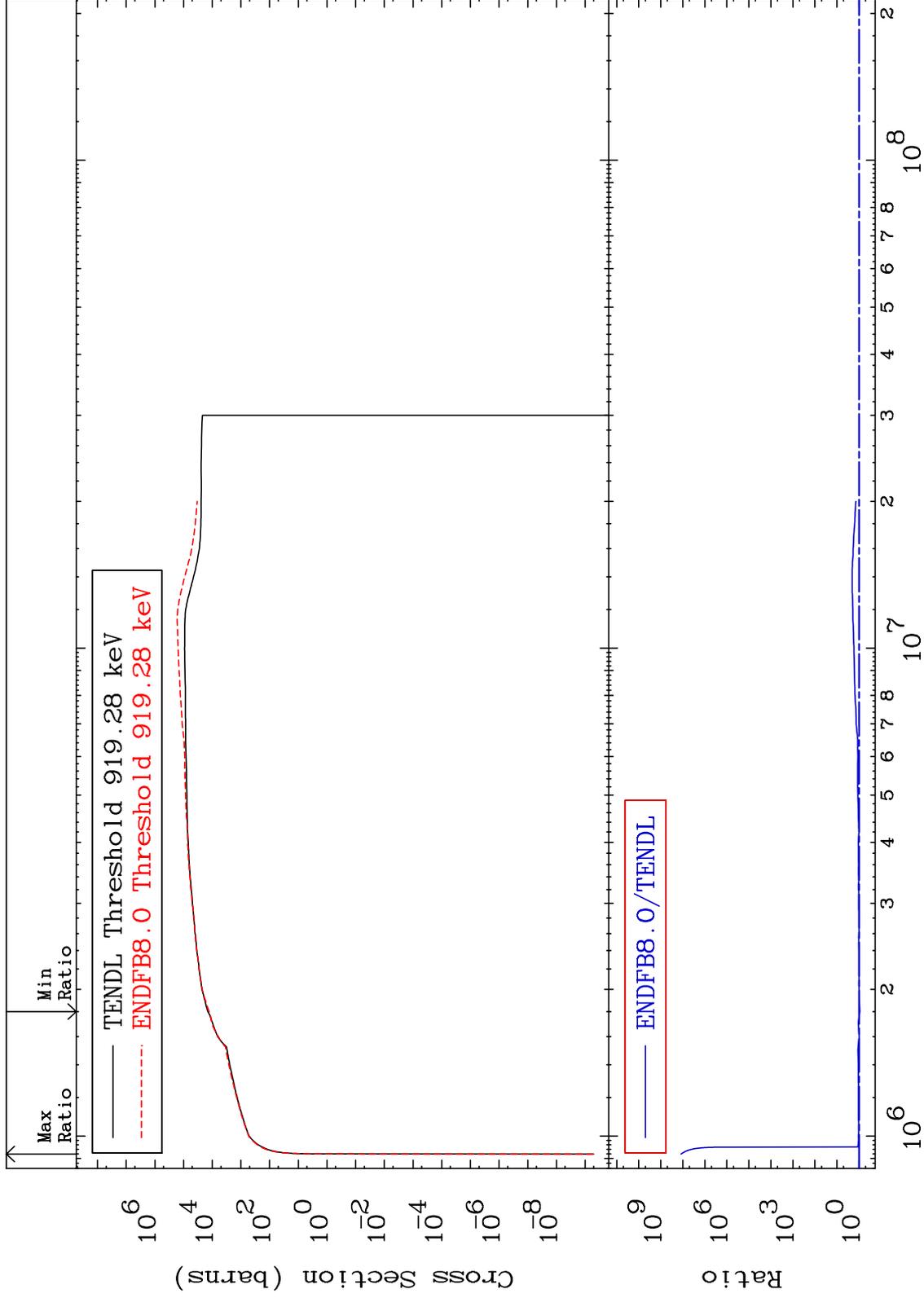
Incident Energy (eV)

39-Y -89

MAT 3925

Dpa inelastic (mt51-91)  
Cross Section

39-Y -89  
-9.771 To 9999. %



53

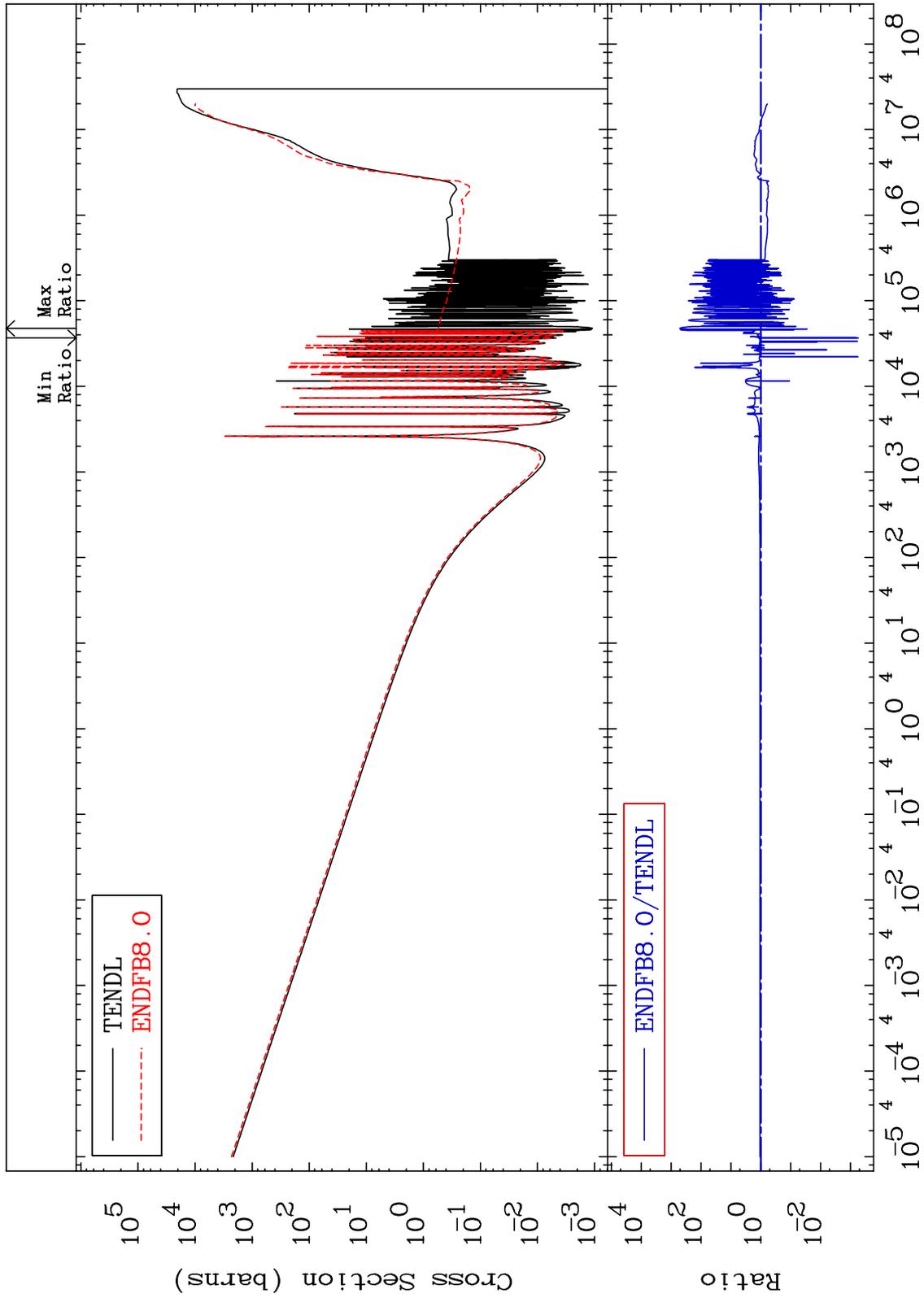
Incident Energy (eV)

39-Y -89

MAT 3925

Dpa disappearance (mt102 -120)  
Cross Section

39-Y -89  
-99.95 To 9999. %

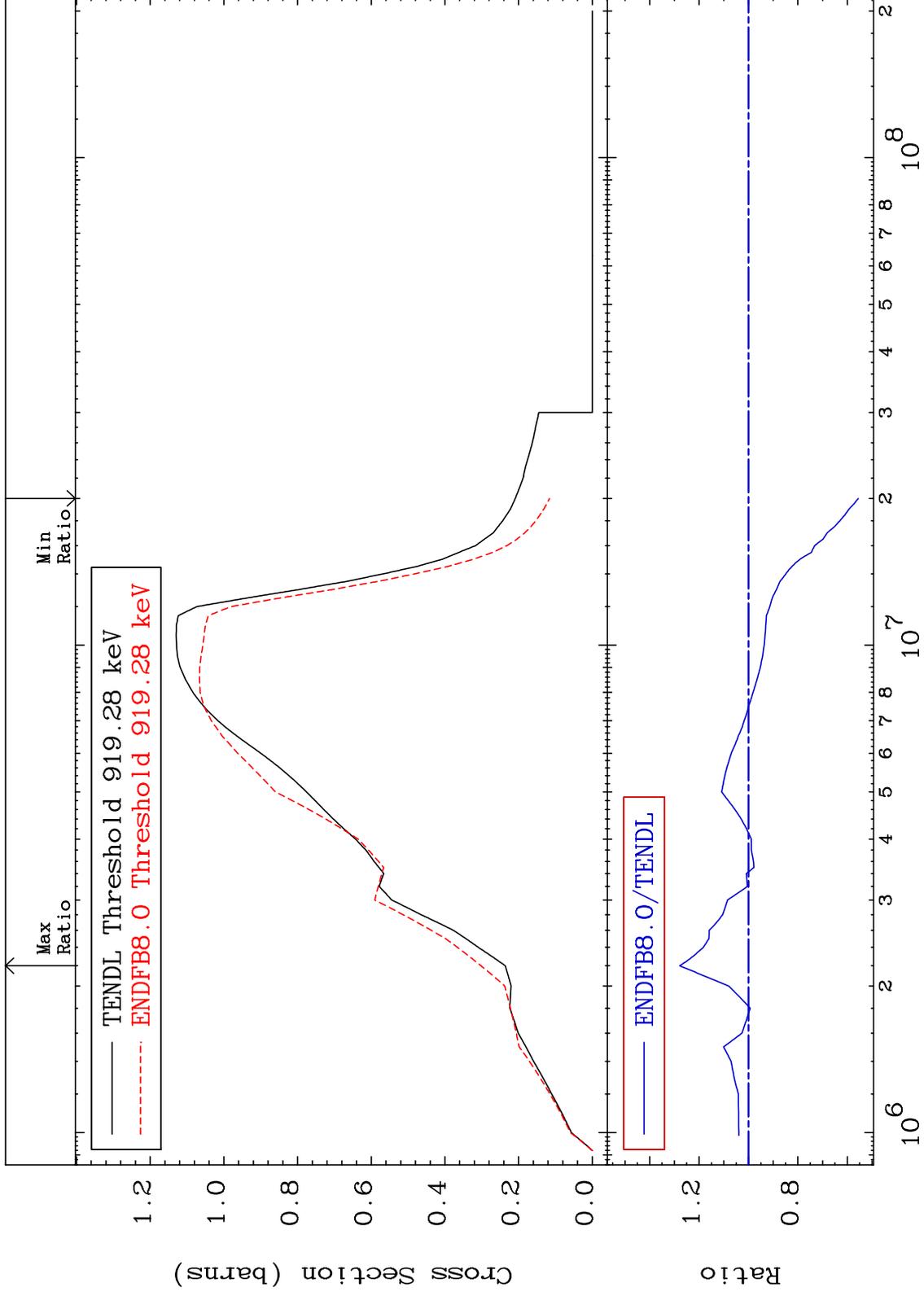


MAT 3925

Inelastic:39-Y -89m1

39-Y -89

Radionuclide Production Cross Section -44.46 To 27.84 %



55

Incident Energy (eV)

39-Y -89