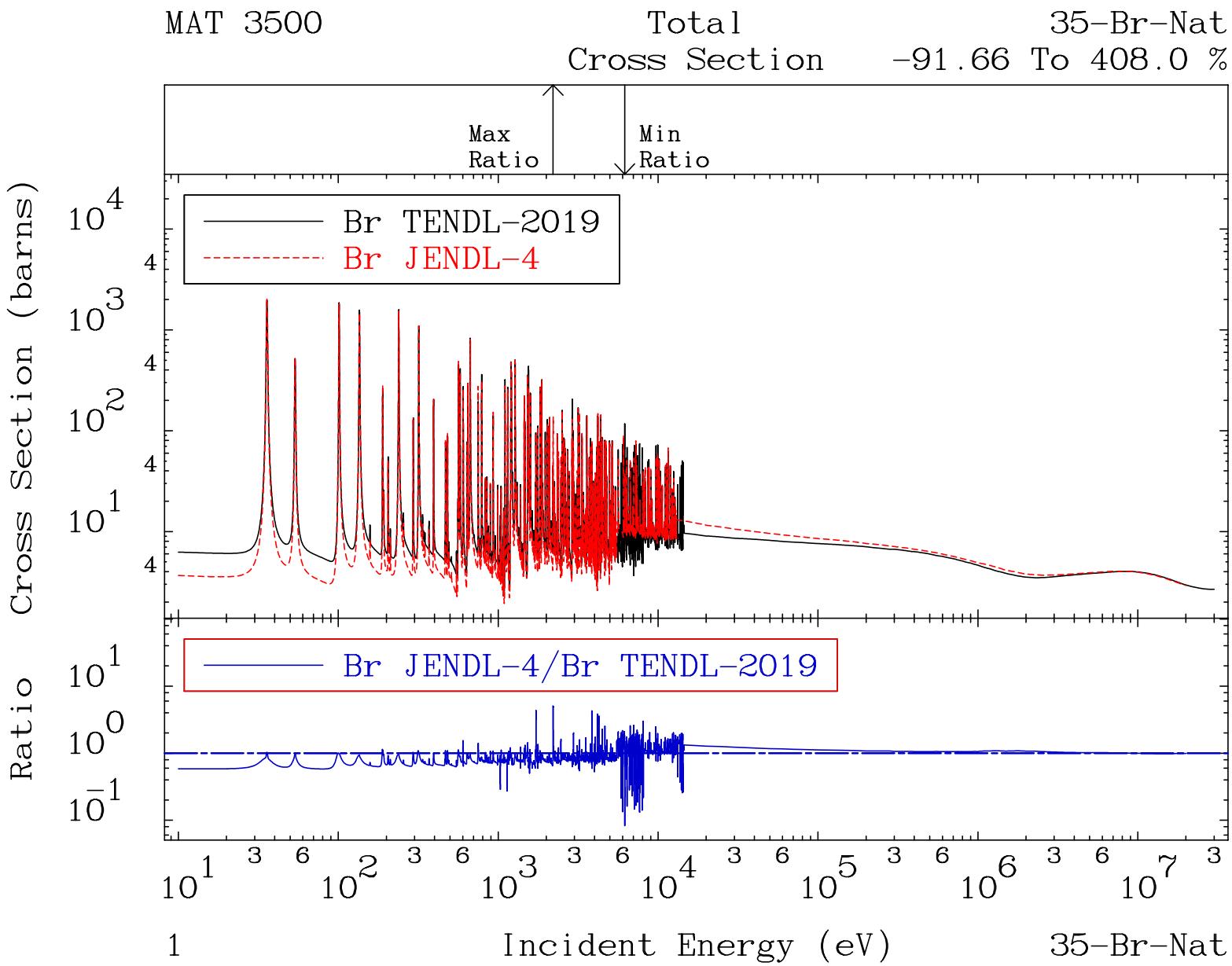
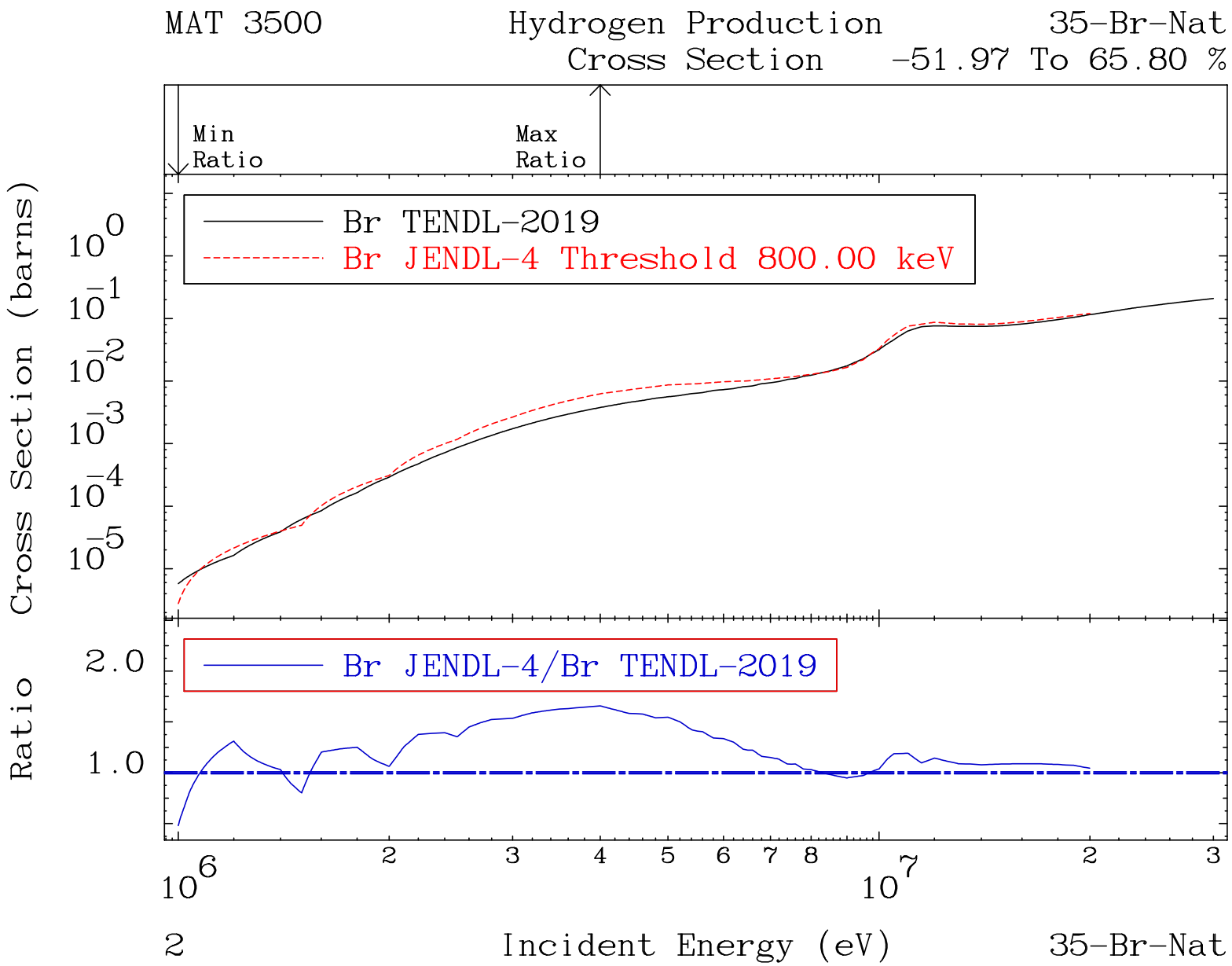
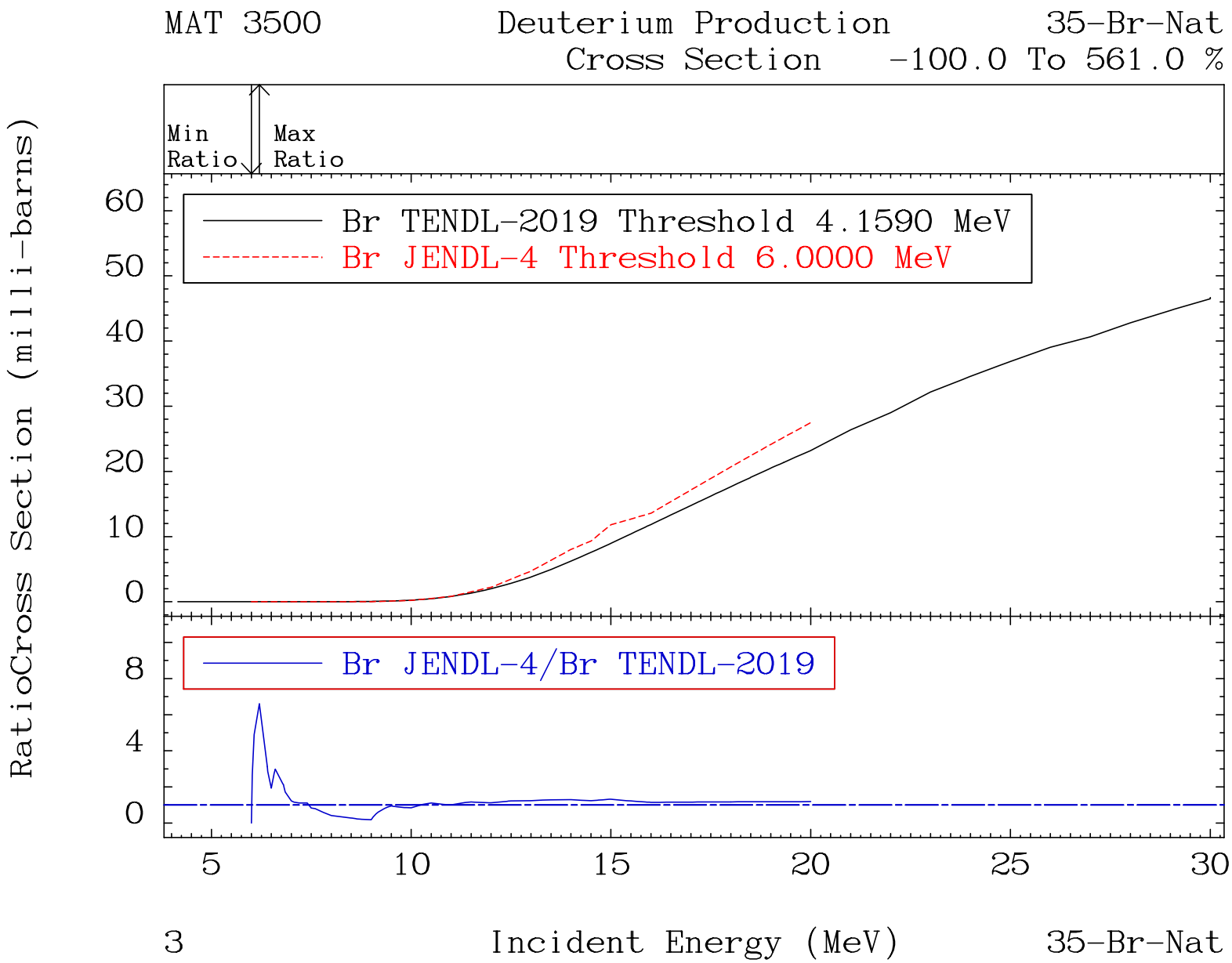
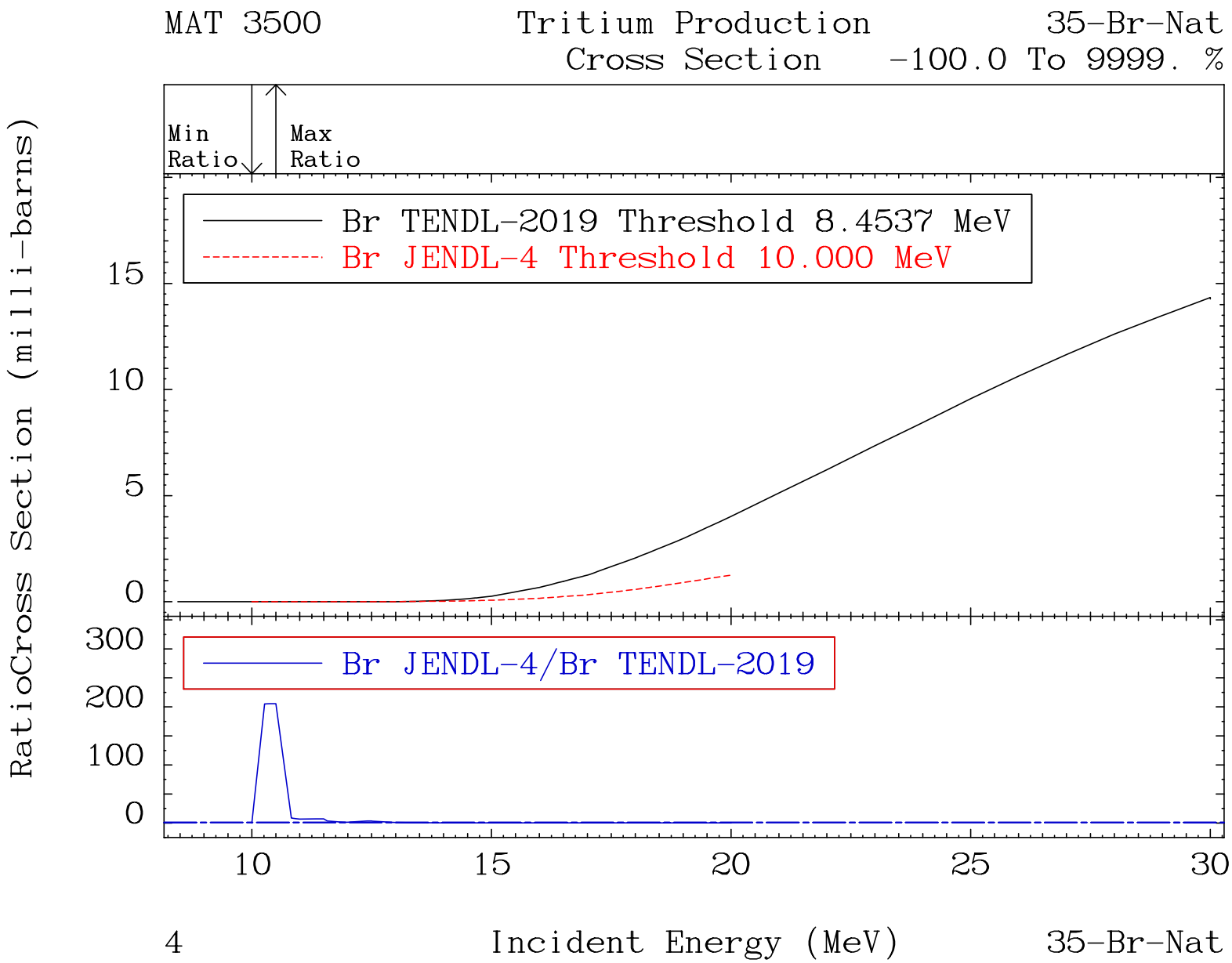
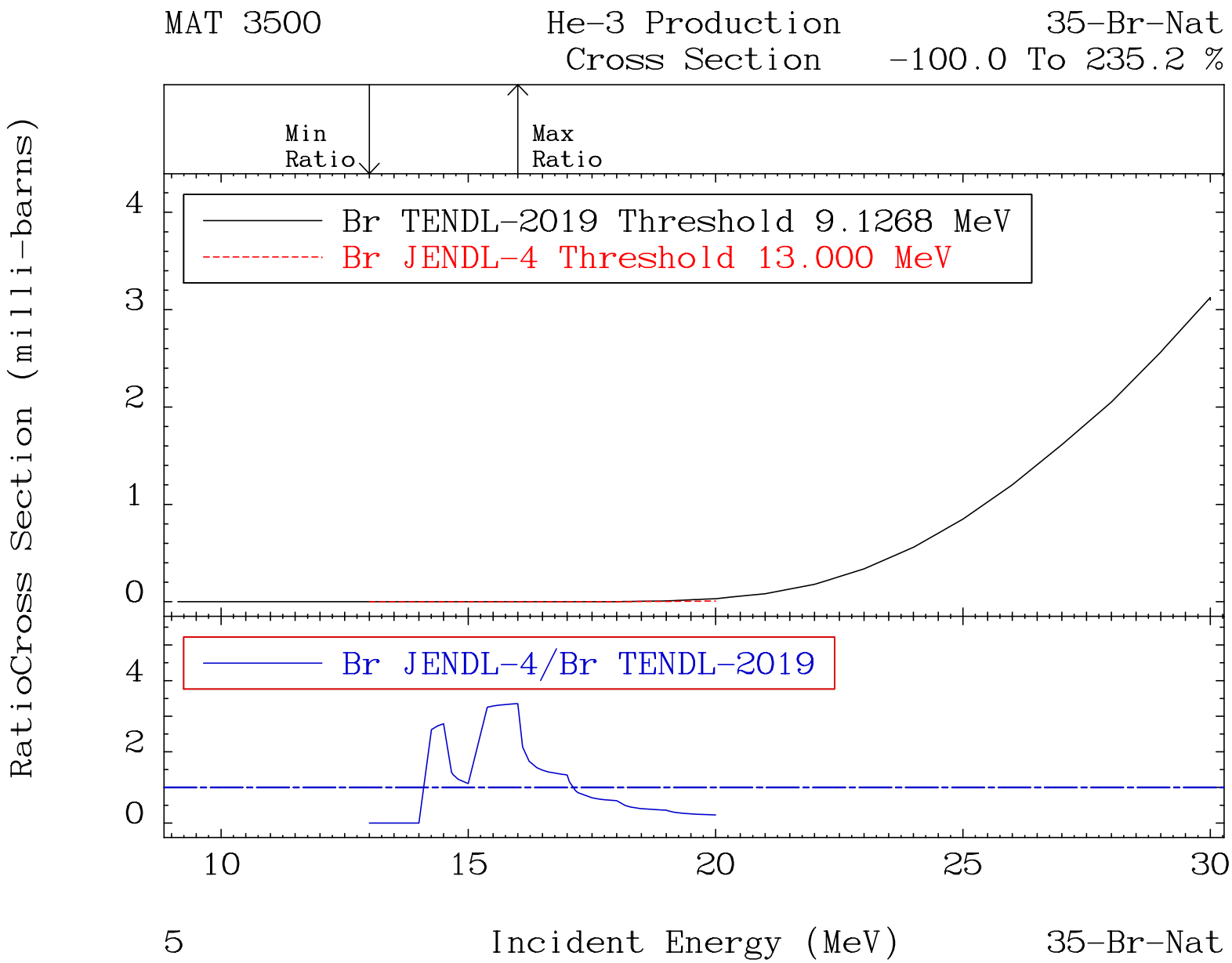
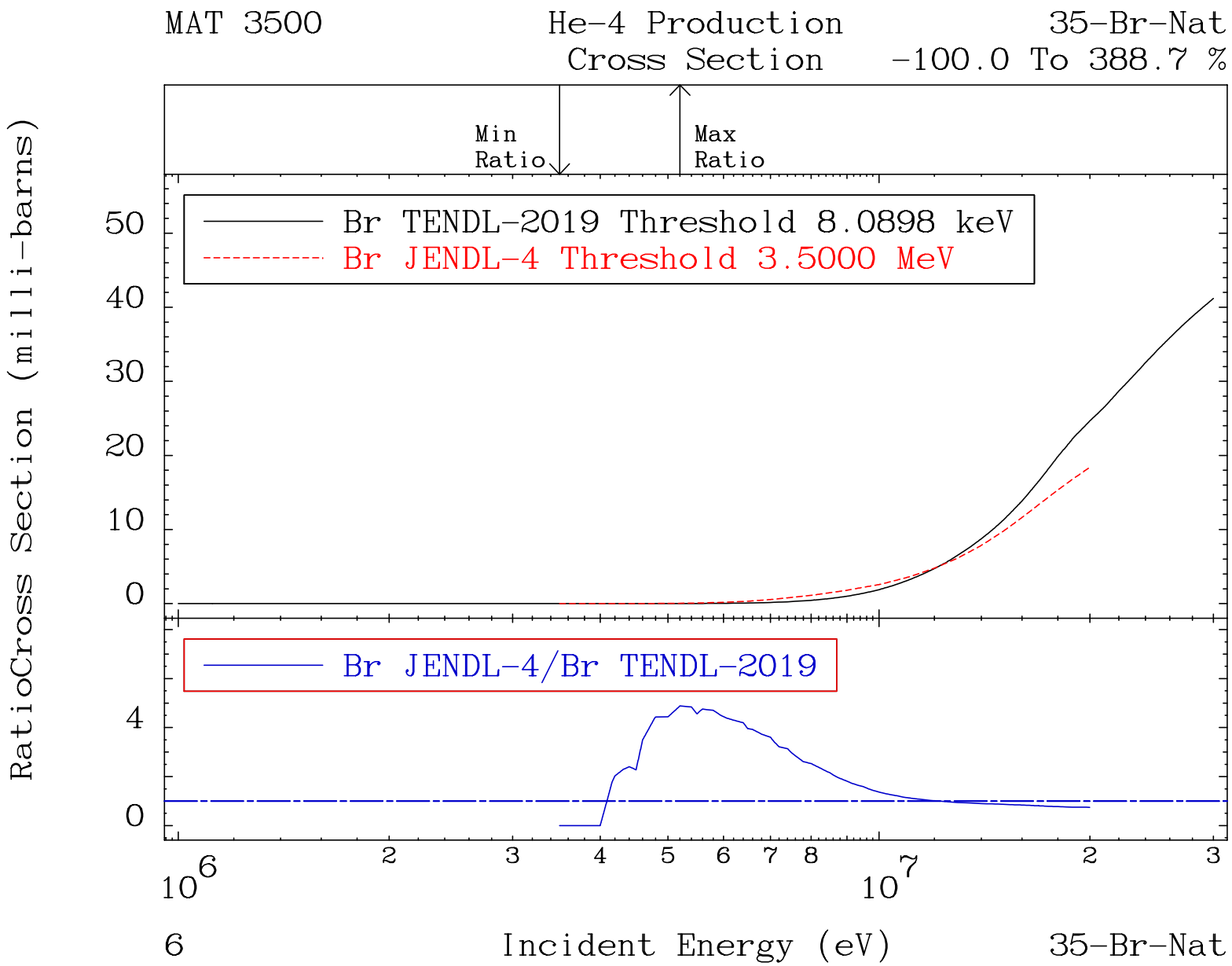

MAT 3500
Total
Cross Section
35-Br-Nat
-91.66 To 408.0 %
Max
Ratio
Min
Ratio
Br TENDL-2019
Br JENDL-4
Br JENDL-4/Br TENDL-2019
Cross Section (barns)
Ratio
Incident Energy (eV)
1
35-Br-Nat

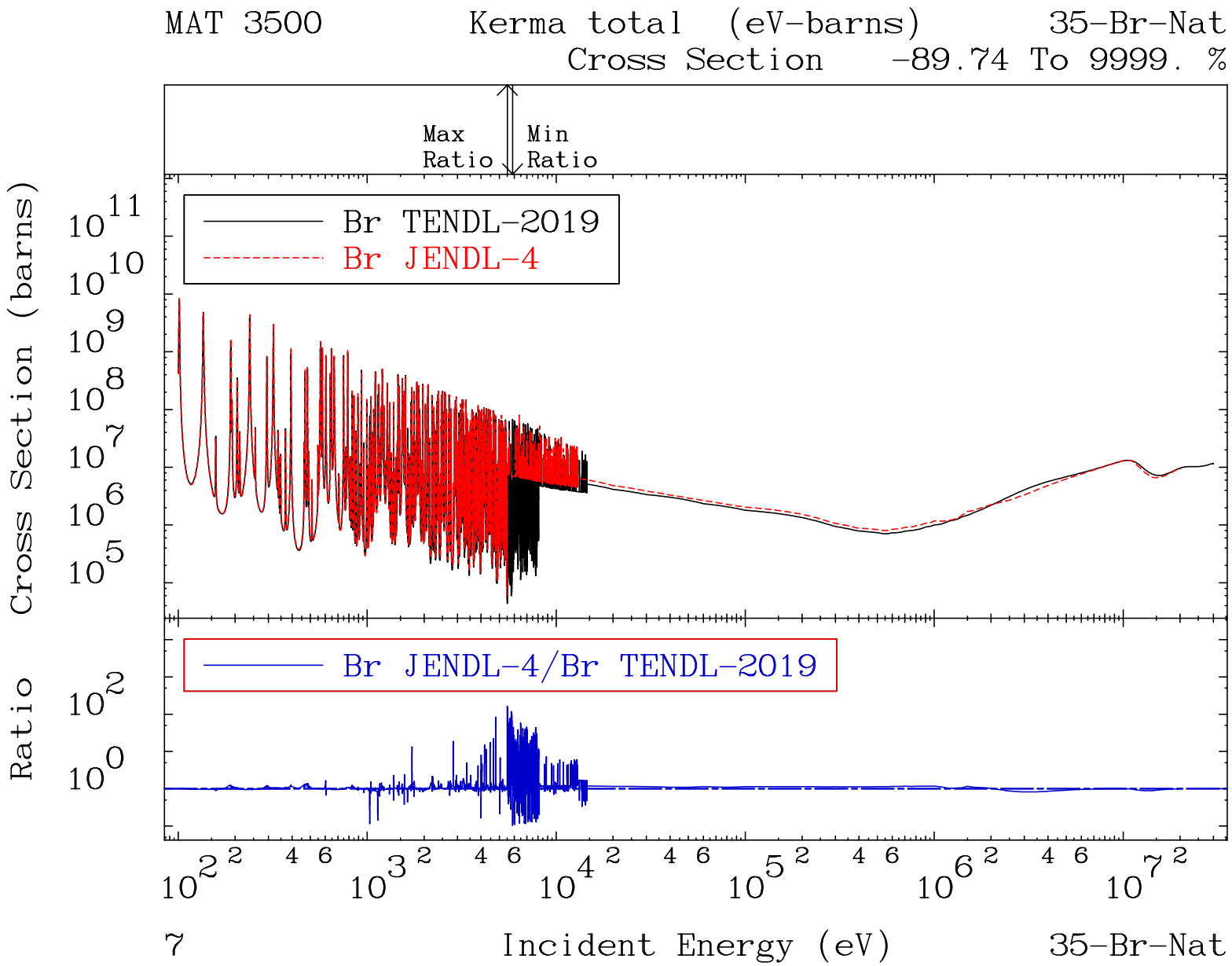

MAT 3500
Hydrogen Production
Cross Section
35-Br-Nat
-51.97 To 65.80 %
Min Ratio
Max Ratio
Br TENDL-2019
Br JENDL-4 Threshold 800.00 keV
Cross Section (barns)
Br JENDL-4/Br TENDL-2019
Ratio
Incident Energy (eV)
35-Br-Nat

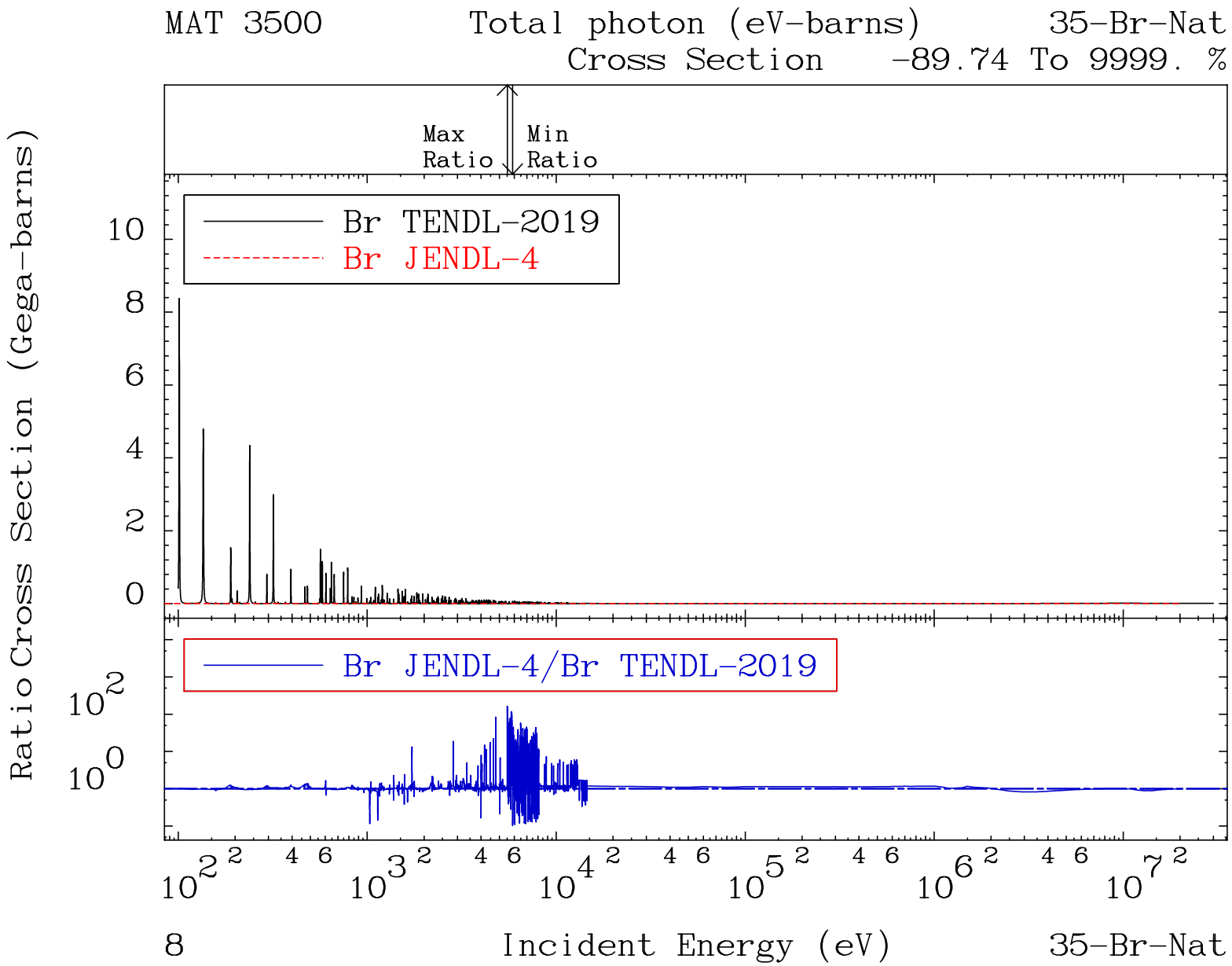

MAT 3500
Deuterium Production
Cross Section
35-Br-Nat
-100.0 To 561.0 %
Min Ratio
Max Ratio
Br TENDL-2019 Threshold 4.1590 MeV
Br JENDL-4 Threshold 6.0000 MeV
Br JENDL-4/Br TENDL-2019
RatioCross Section (milli-barns)
Incident Energy (MeV)
3
35-Br-Nat

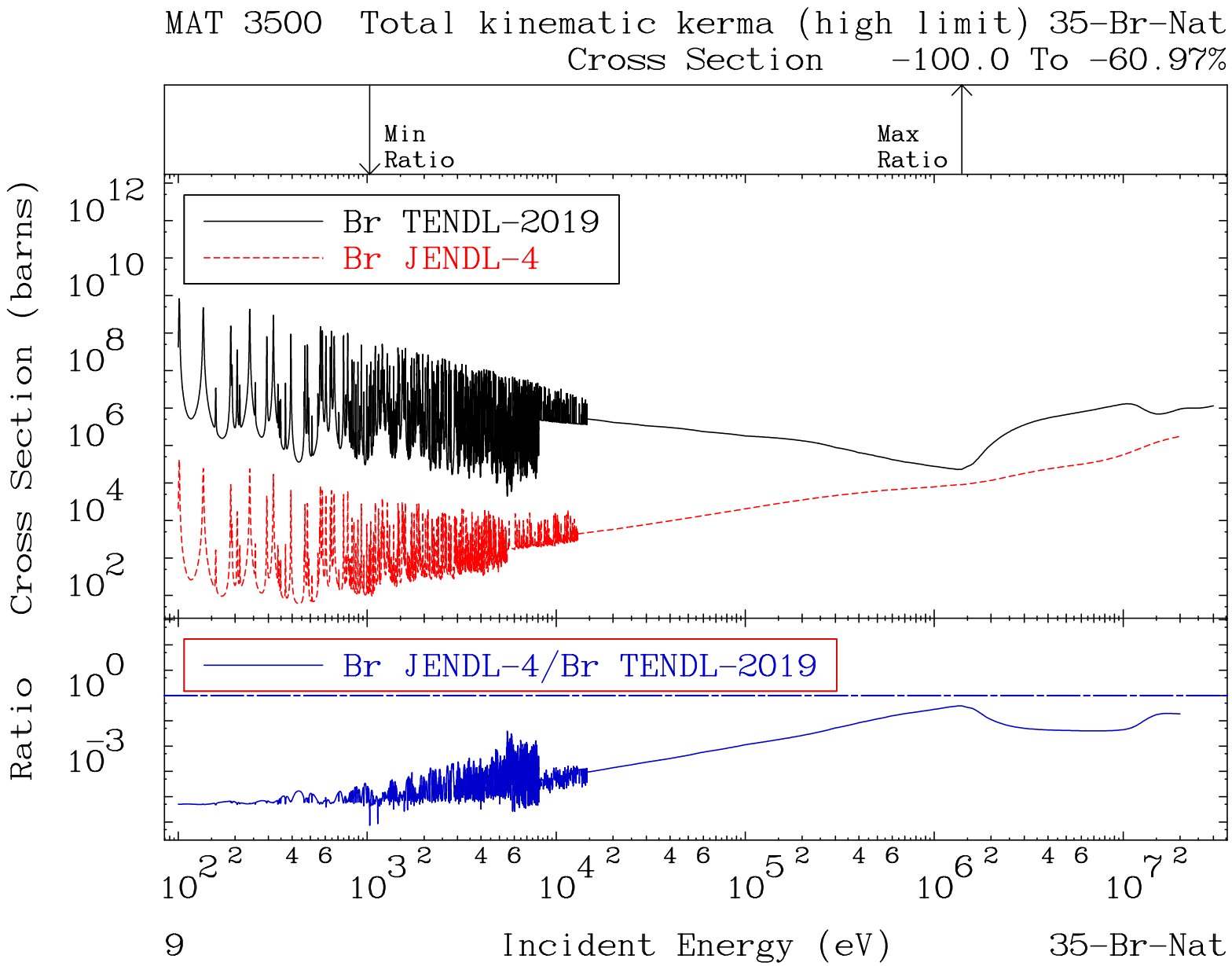

MAT 3500
Tritium Production
Cross Section
35-Br-Nat
-100.0 To 9999. %
Min Ratio
Max Ratio
Br TENDL-2019 Threshold 8.4537 MeV
Br JENDL-4 Threshold 10.000 MeV
Br JENDL-4/Br TENDL-2019
RatioCross Section (milli-barns)
0
5
10
15
0
100
200
300
10
15
20
25
30
Incident Energy (MeV)
4
35-Br-Nat

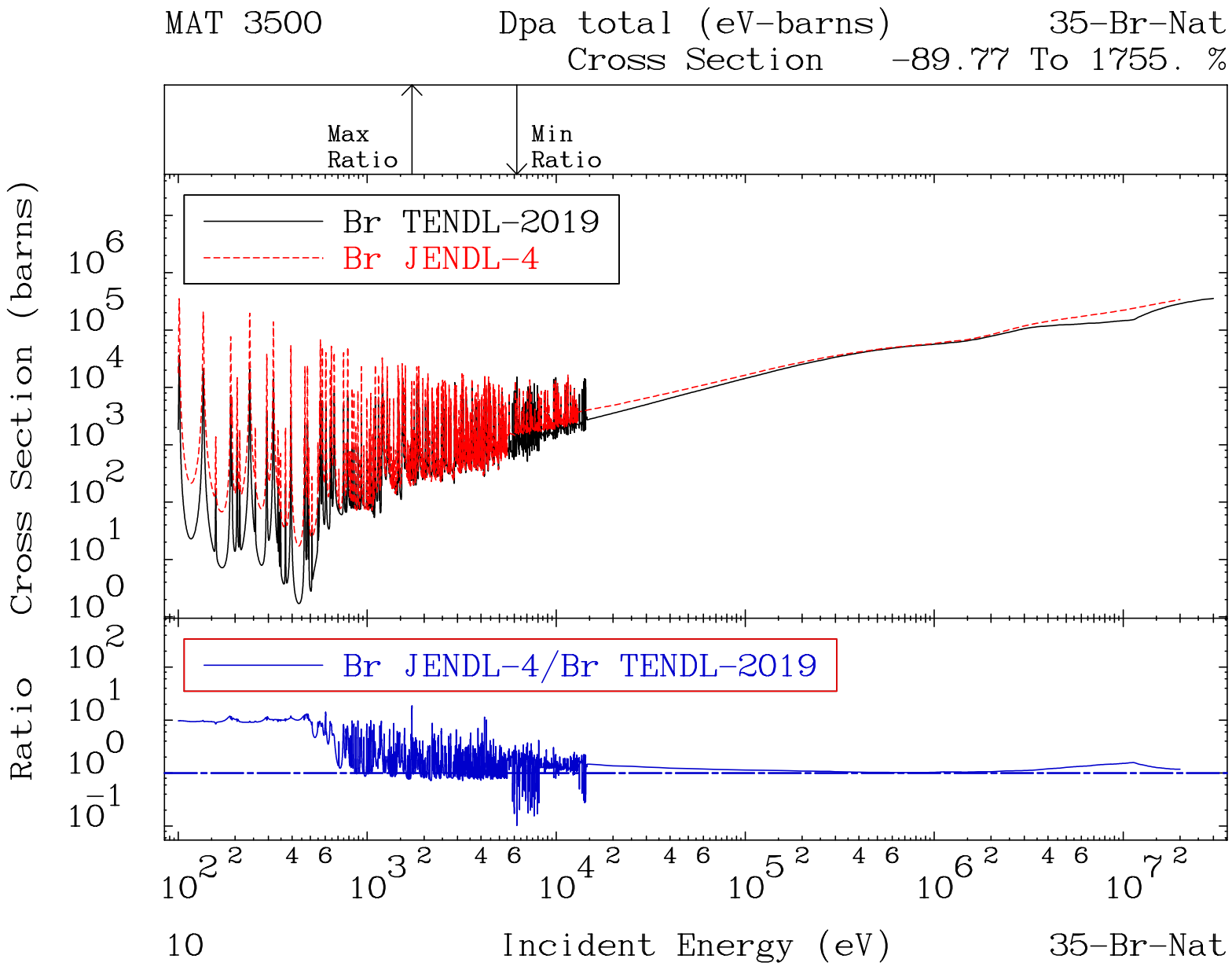

MAT 3500
He-3 Production
Cross Section
35-Br-Nat
-100.0 To 235.2 %
Min
Ratio
Max
Ratio
Br TENDL-2019 Threshold 9.1268 MeV
Br JENDL-4 Threshold 13.000 MeV
Br JENDL-4/Br TENDL-2019
RatioCross Section (milli-barns)
0
1
2
3
4
0
2
4
10
15
20
25
30
5
Incident Energy (MeV)
35-Br-Nat

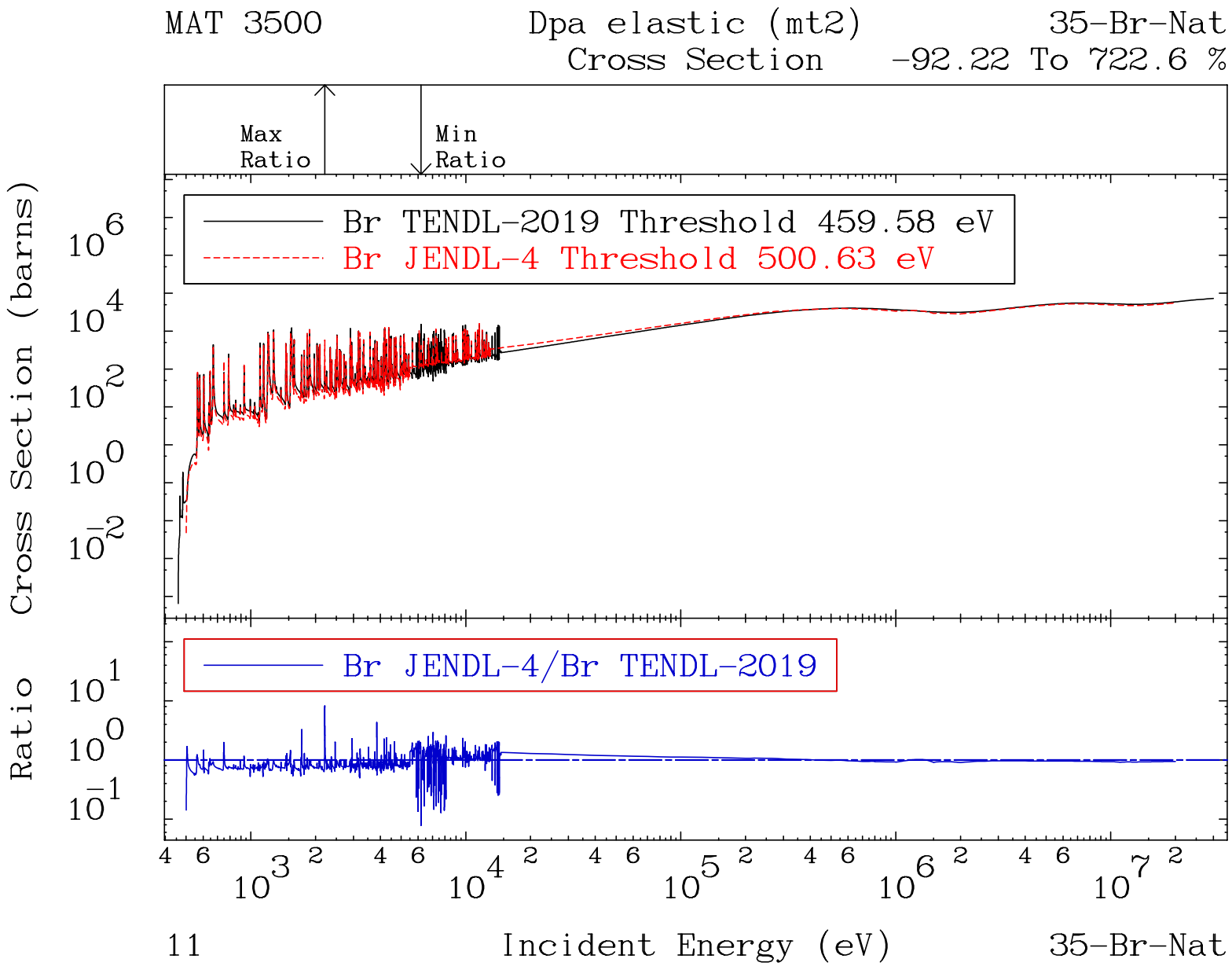

MAT 3500
He-4 Production
Cross Section
35-Br-Nat
-100.0 To 388.7 %
Min
Ratio
Max
Ratio
Br TENDL-2019 Threshold 8.0898 keV
Br JENDL-4 Threshold 3.5000 MeV
Br JENDL-4/Br TENDL-2019
RatioCross Section (milli-barns)
Incident Energy (eV)
6
35-Br-Nat

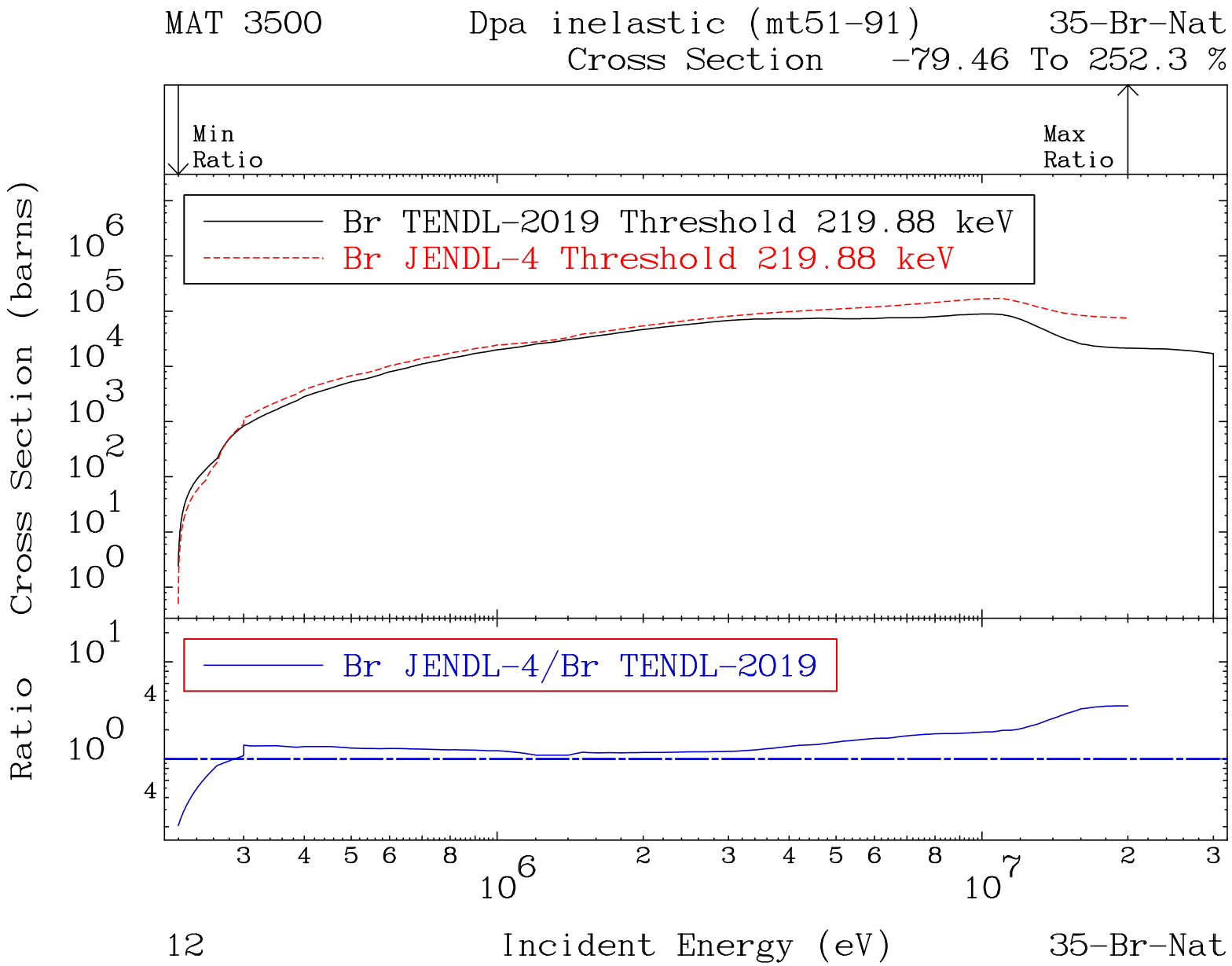

MAT 3500
Kerma total (eV-barns)
35-Br-Nat
Cross Section -89.74 To 9999. %
Max Ratio
Min Ratio
Br TENDL-2019
Br JENDL-4
Cross Section (barns)
Br JENDL-4/Br TENDL-2019
Ratio
Incident Energy (eV)
7
35-Br-Nat

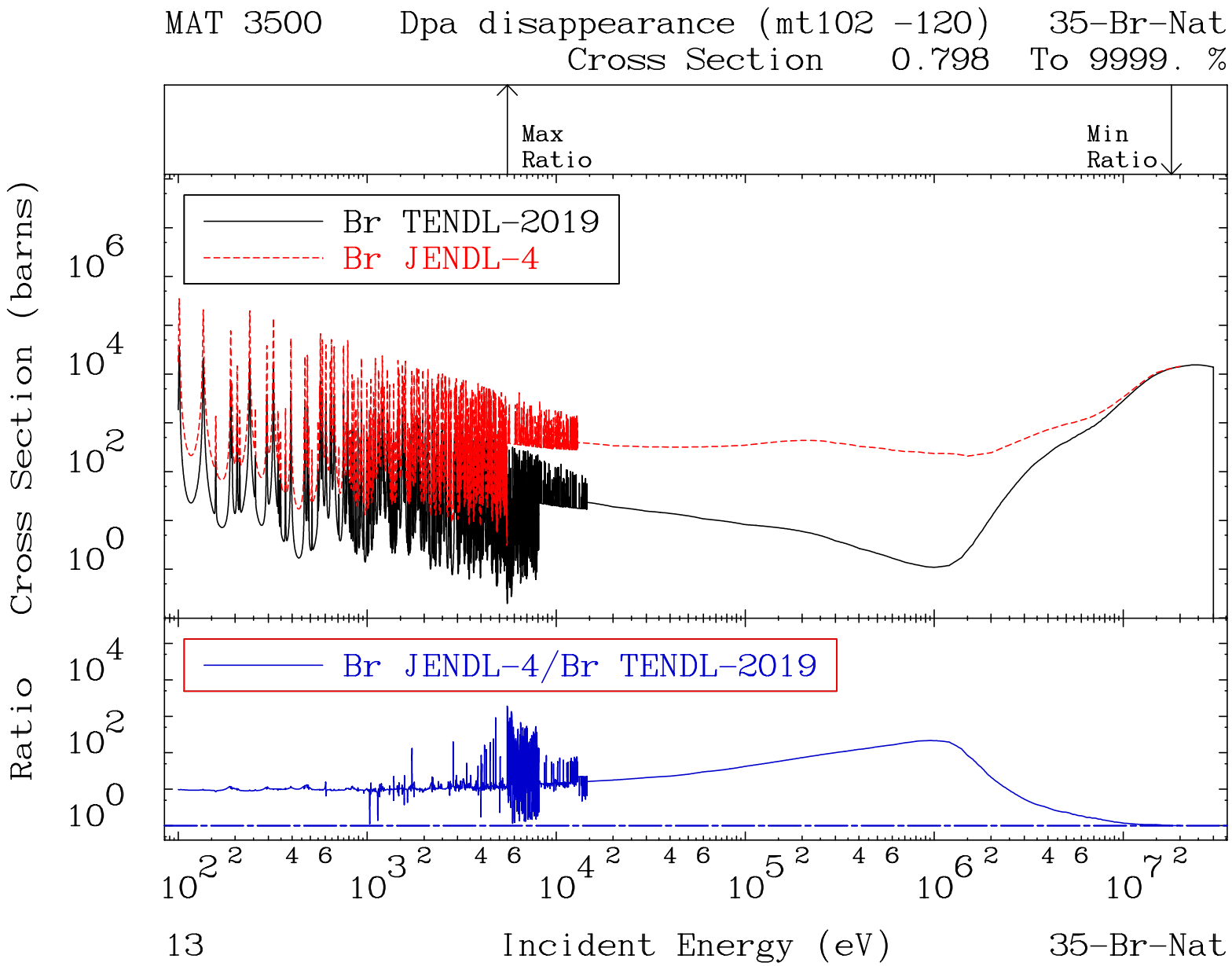

MAT 3500
Total photon (eV-barns)
Cross Section
35-Br-Nat
-89.74 To 9999. %
Max Ratio
Min Ratio
Br TENDL-2019
Br JENDL-4
Br JENDL-4/Br TENDL-2019
Ratio Cross Section (Gega-barns)
Incident Energy (eV)
8
35-Br-Nat


MAT 3500 Total kinematic kerma (high limit) 35-Br-Nat
Cross Section -100.0 To -60.97%
Min Ratio
Max Ratio
Br TENDL-2019
Br JENDL-4
Br JENDL-4/Br TENDL-2019
Cross Section (barns)
Ratio
Incident Energy (eV)
9
35-Br-Nat


MAT 3500
Dpa total (eV-barns)
Cross Section
35-Br-Nat
-89.77 To 1755. %
Max Ratio
Min Ratio
Br TENDL-2019
Br JENDL-4
Cross Section (barns)
Br JENDL-4/Br TENDL-2019
Ratio
Incident Energy (eV)
10
35-Br-Nat


MAT 3500
Dpa elastic (mt2)
Cross Section
35-Br-Nat
-92.22 To 722.6 %
Max Ratio
Min Ratio
Br TENDL-2019 Threshold 459.58 eV
Br JENDL-4 Threshold 500.63 eV
Cross Section (barns)
Br JENDL-4/Br TENDL-2019
Ratio
Incident Energy (eV)
11
35-Br-Nat


MAT 3500
Dpa inelastic (mt51-91)
Cross Section
35-Br-Nat
-79.46 To 252.3 %
Min Ratio
Max Ratio
Br TENDL-2019 Threshold 219.88 keV
Br JENDL-4 Threshold 219.88 keV
Br JENDL-4/Br TENDL-2019
Cross Section (barns)
Ratio
Incident Energy (eV)
12
35-Br-Nat


MAT 3500 Dpa disappearance (mt102 -120) 35-Br-Nat
Cross Section 0.798 To 9999. %
Max Ratio
Min Ratio
Br TENDL-2019
Br JENDL-4
Br JENDL-4/Br TENDL-2019
Cross Section (barns)
Ratio
Incident Energy (eV)
13
35-Br-Nat