Program Complot
(Version 2021-1)
by
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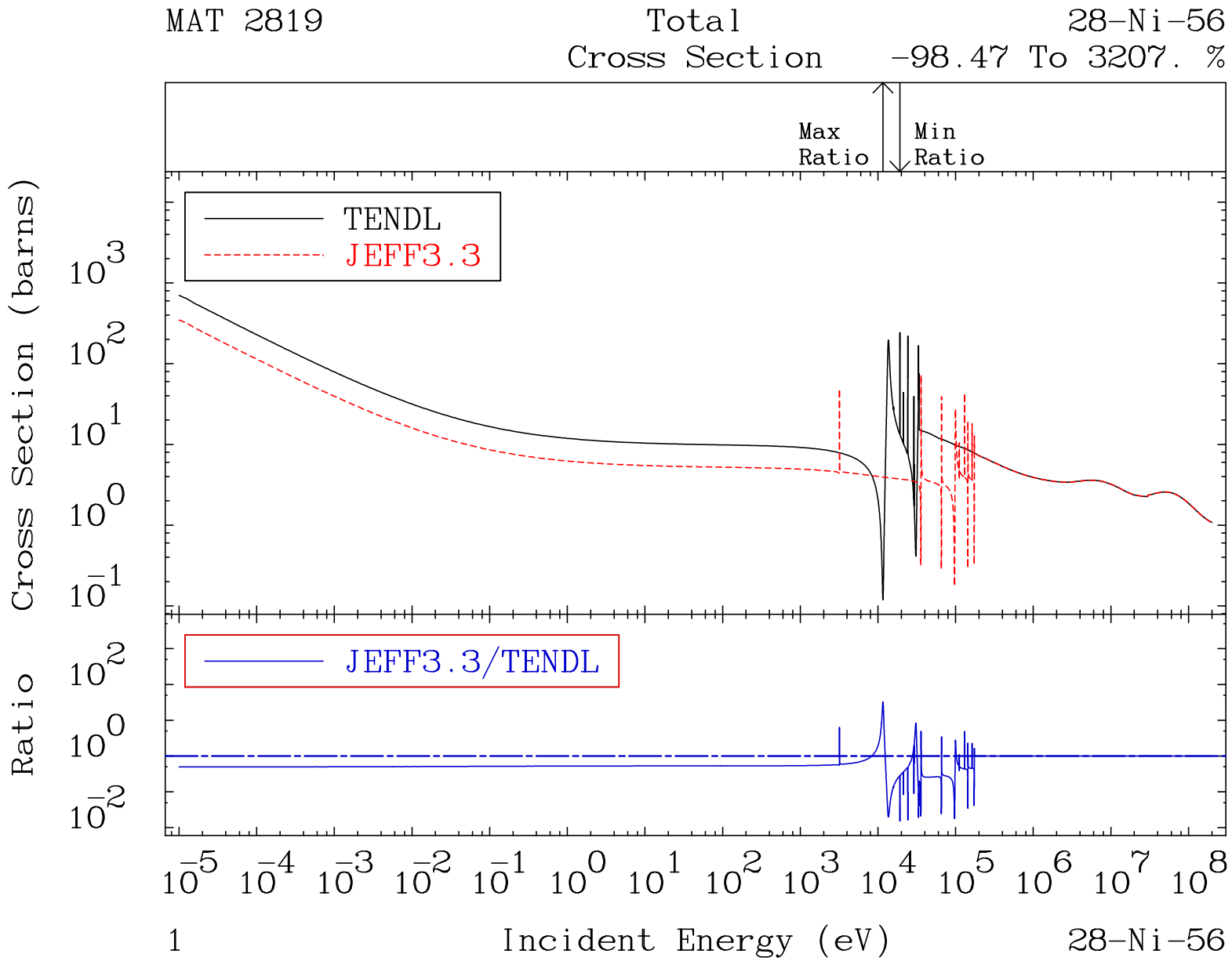
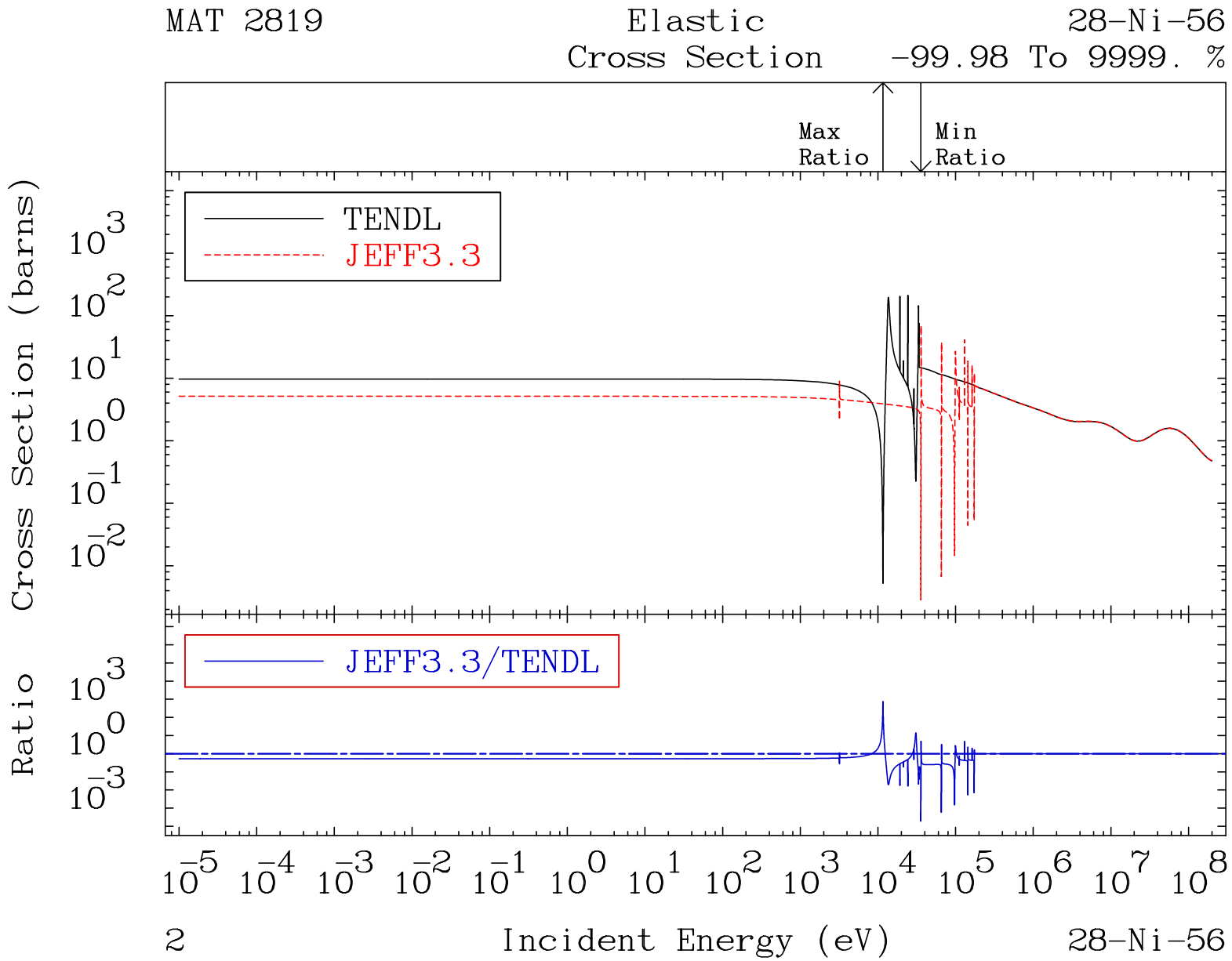
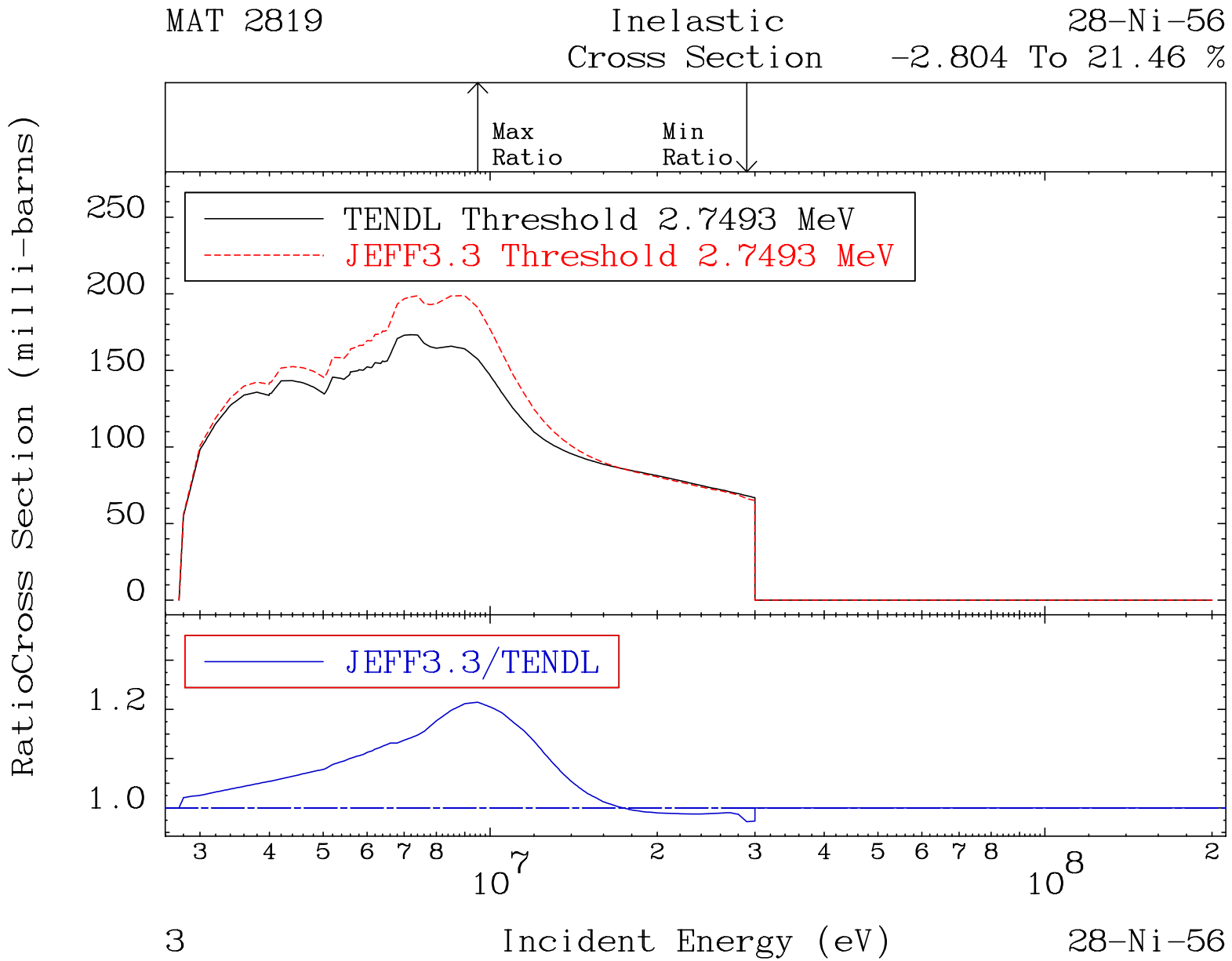
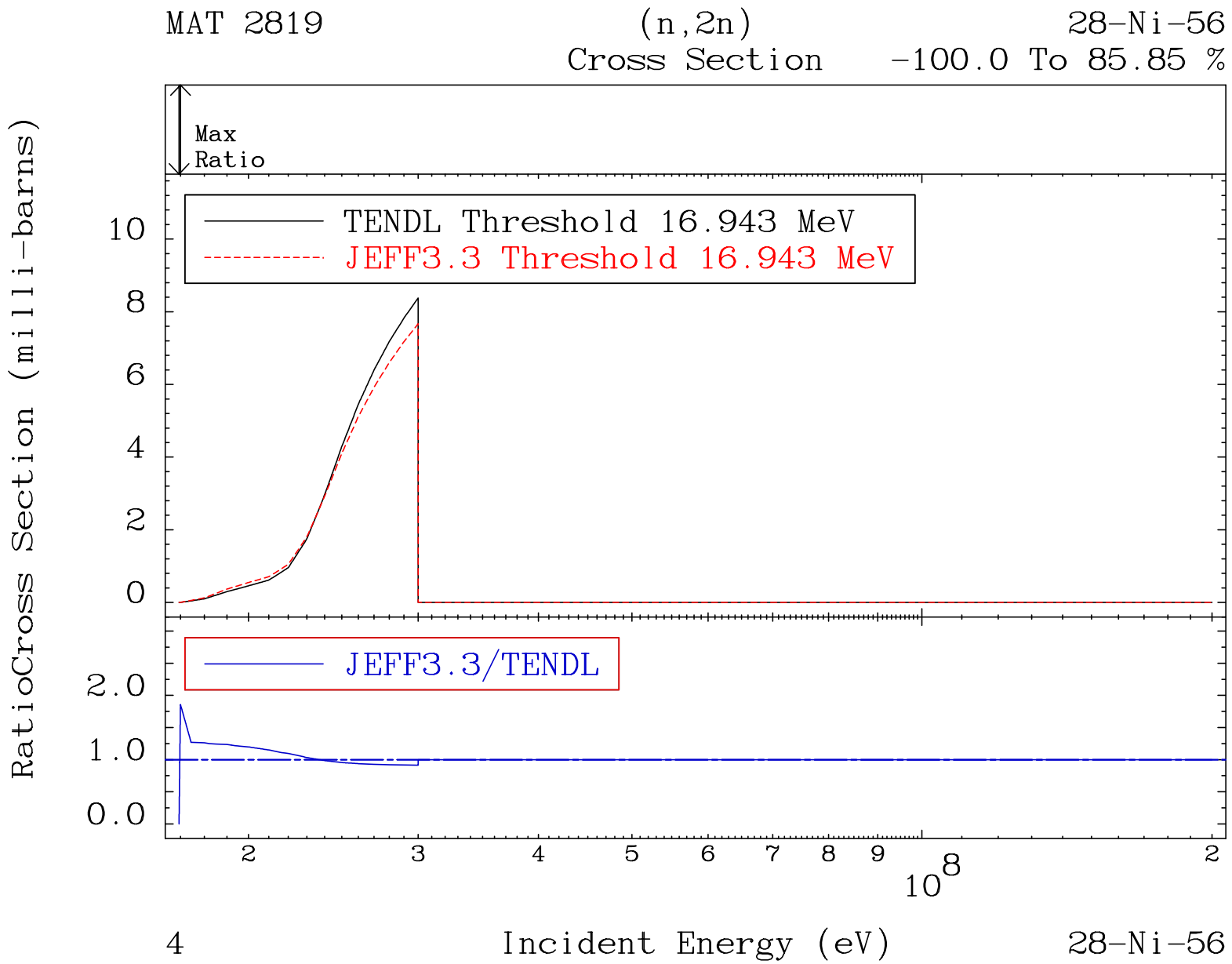
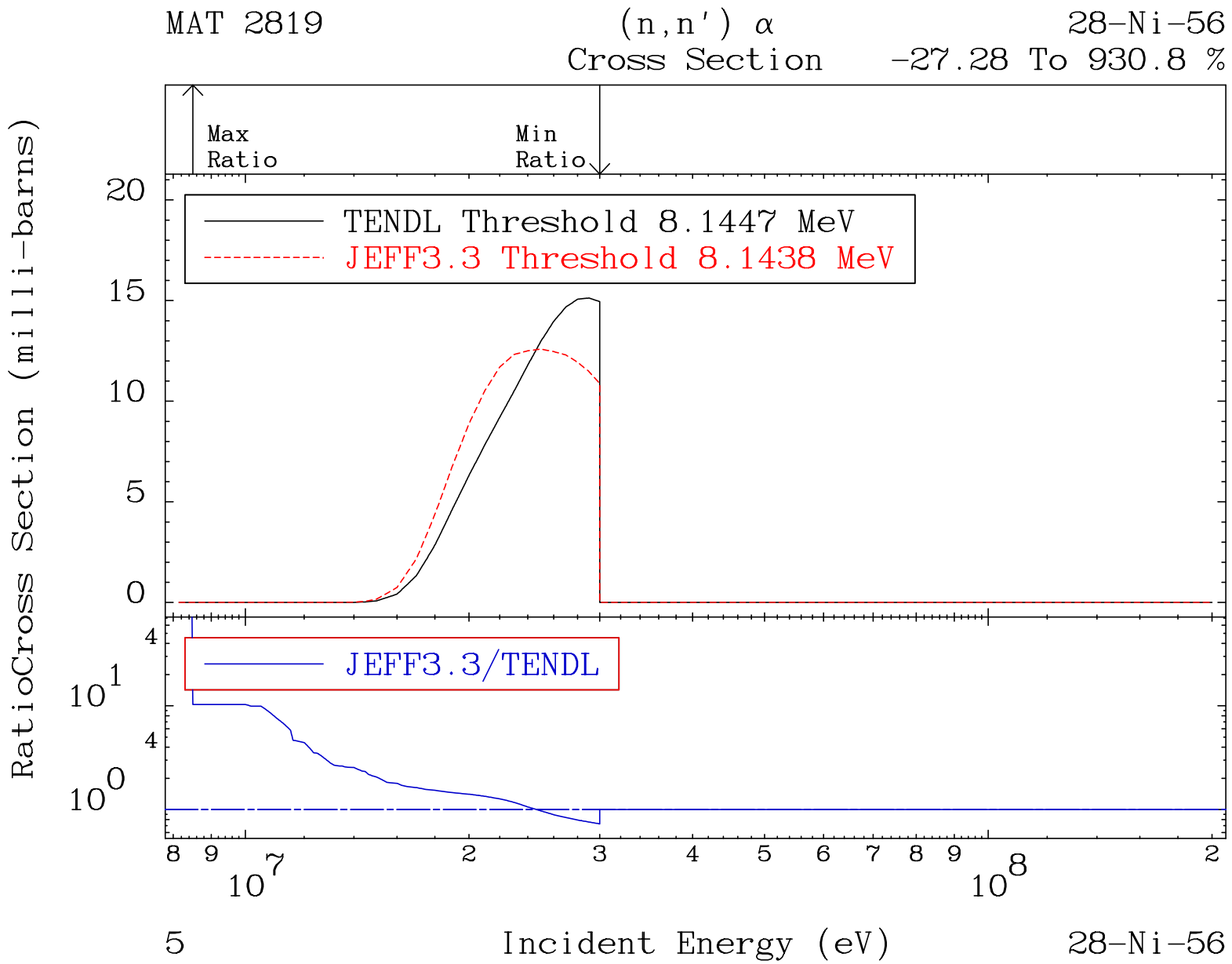
Press Mouse Button to Start

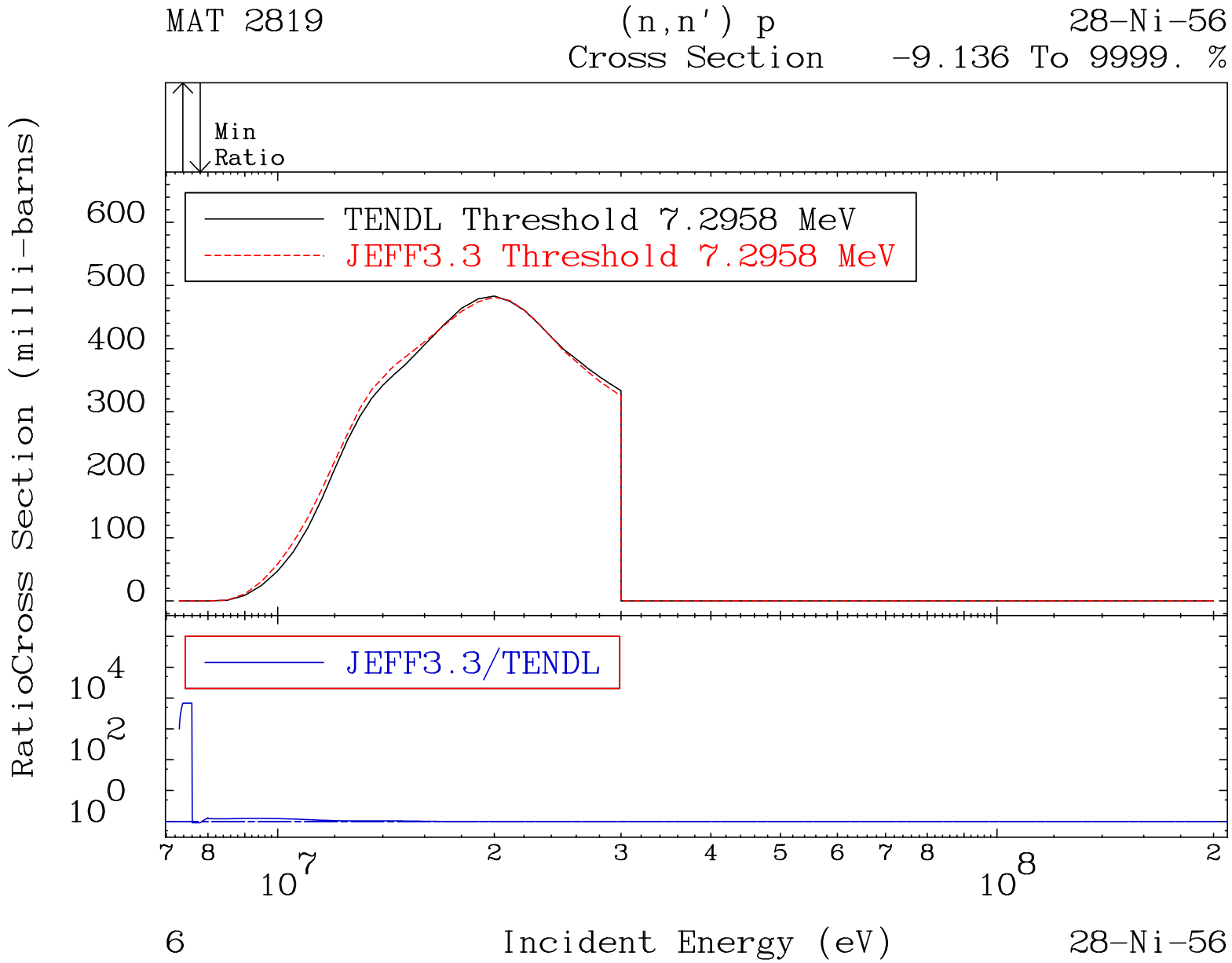

MAT 2819
Total
Cross Section
28-Ni-56
-98.47 To 3207. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
1
28-Ni-56

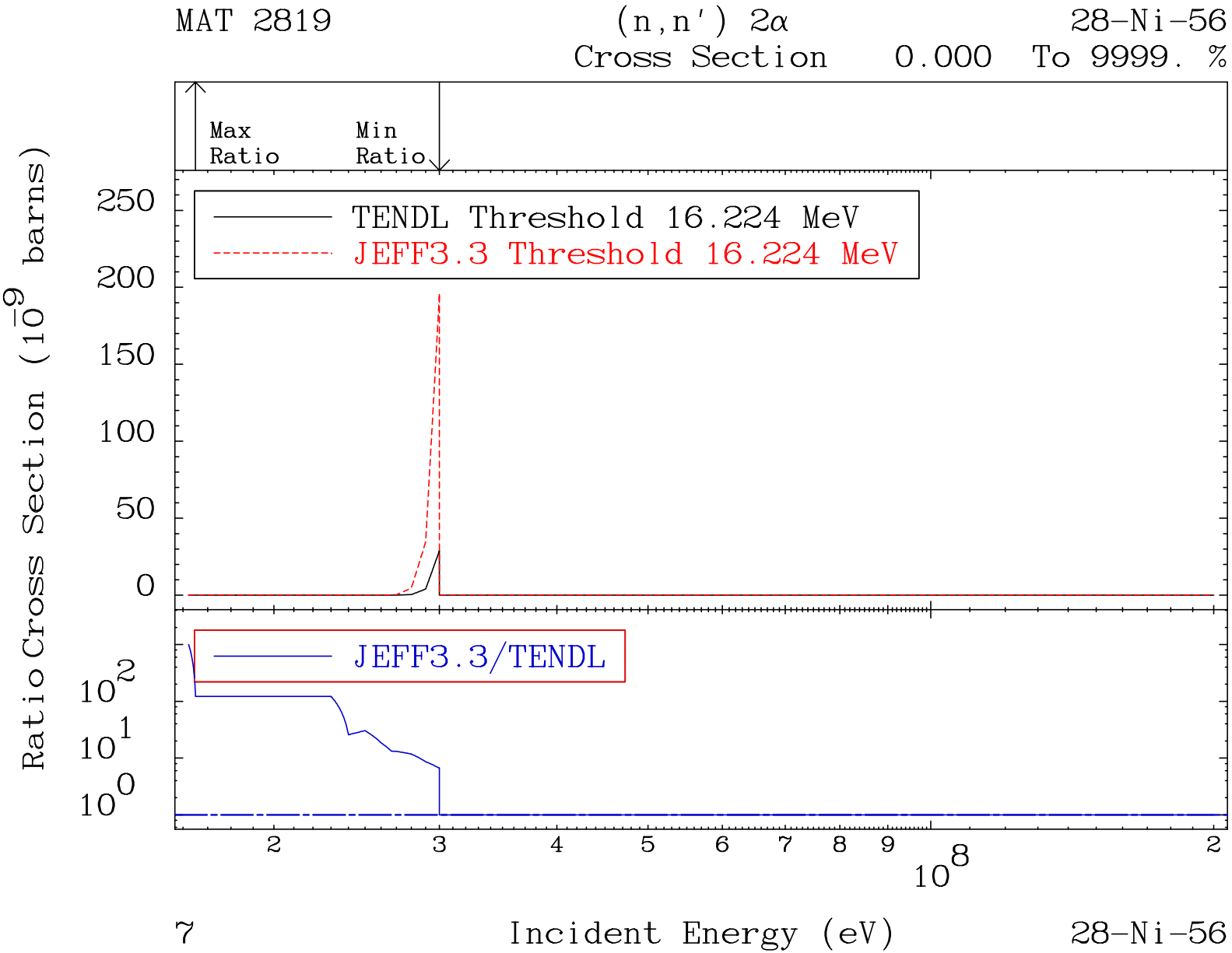

MAT 2819
Elastic
Cross Section
28-Ni-56
-99.98 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
2
28-Ni-56

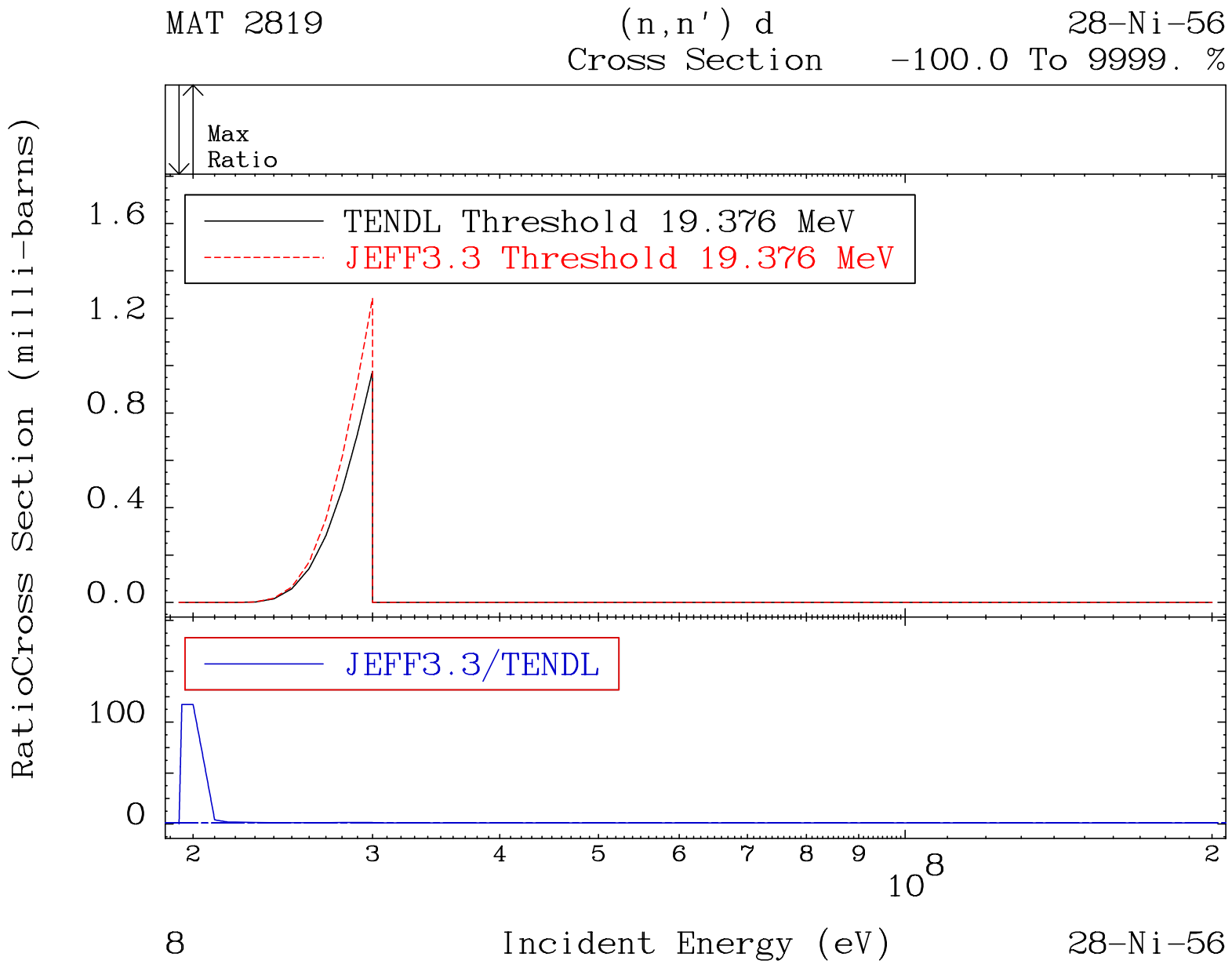

MAT 2819
Inelastic
Cross Section
28-Ni-56
-2.804 To 21.46 %
Max
Ratio
Min
Ratio
TENDL Threshold 2.7493 MeV
JEFF3.3 Threshold 2.7493 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
1.2
1.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
3
Incident Energy (eV)
28-Ni-56

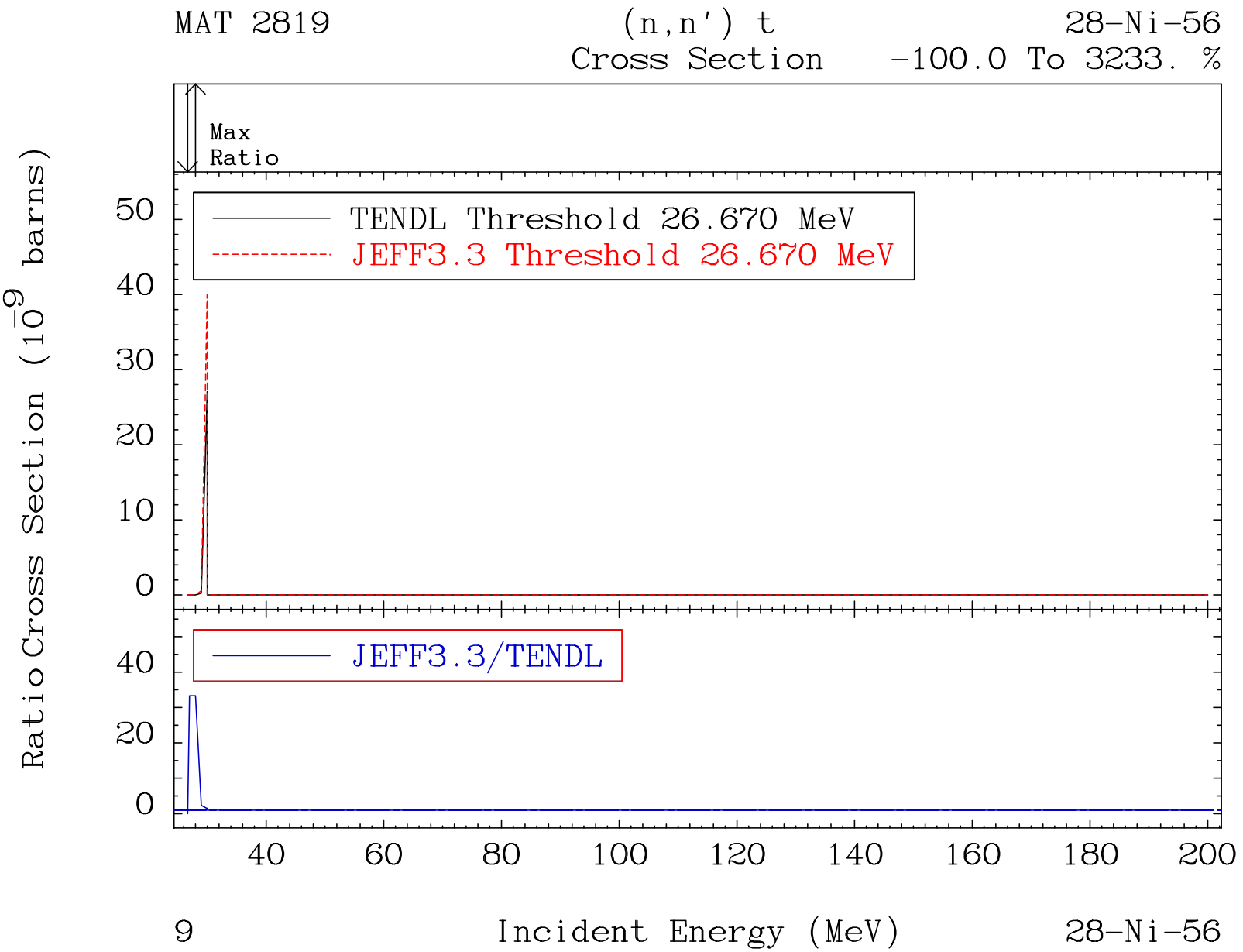

MAT 2819
(n,2n)
Cross Section
28-Ni-56
-100.0 To 85.85 %
Max
Ratio
TENDL Threshold 16.943 MeV
JEFF3.3 Threshold 16.943 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
10
8
6
4
2
0
2.0
1.0
0.0
2
3
4
5
6
7
8
9
10^8
2
4
Incident Energy (eV)
28-Ni-56

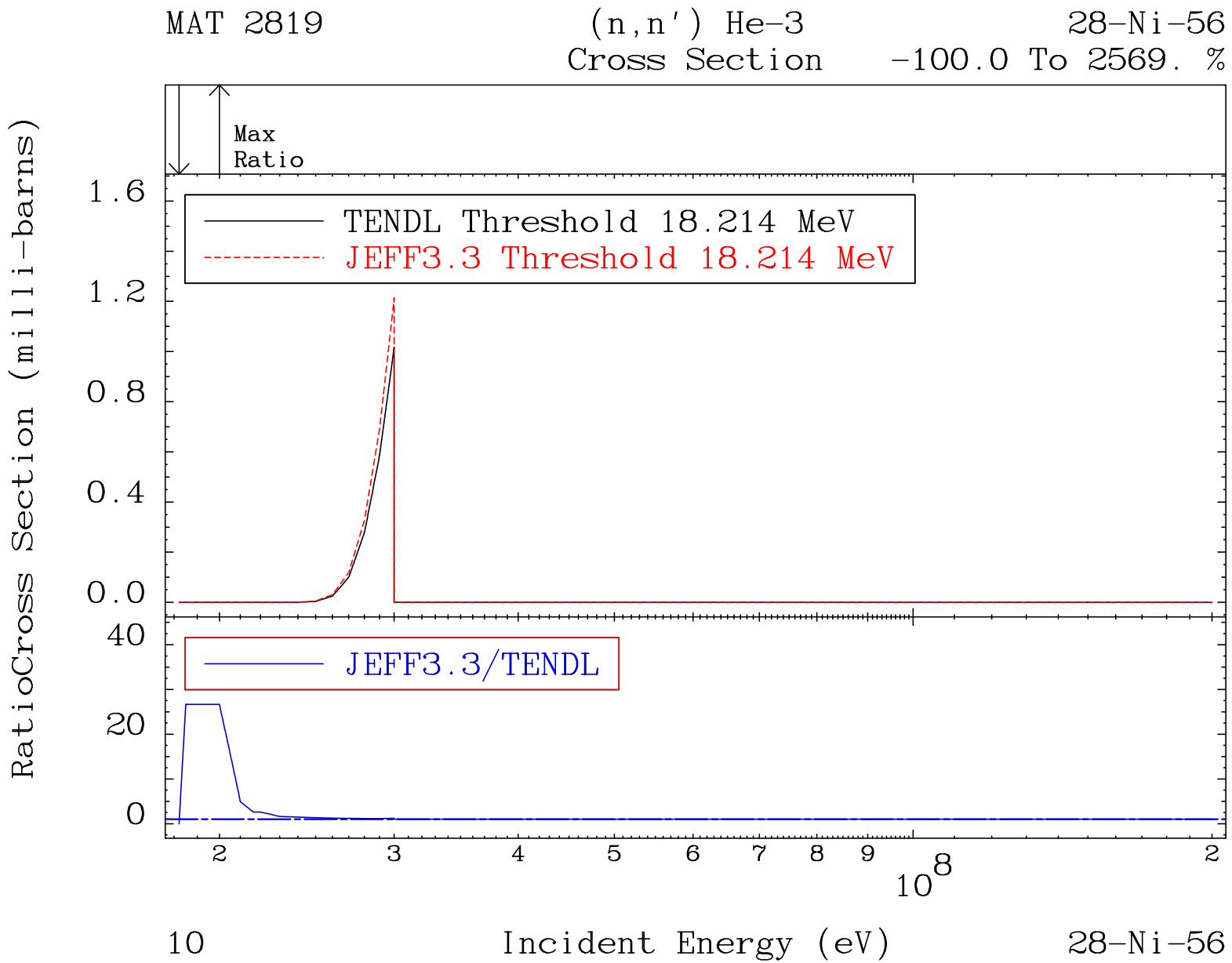

MAT 2819
(n,n') α
Cross Section
28-Ni-56
-27.28 To 930.8 %
Max Ratio
Min Ratio
TENDL Threshold 8.1447 MeV
JEFF3.3 Threshold 8.1438 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
5
28-Ni-56

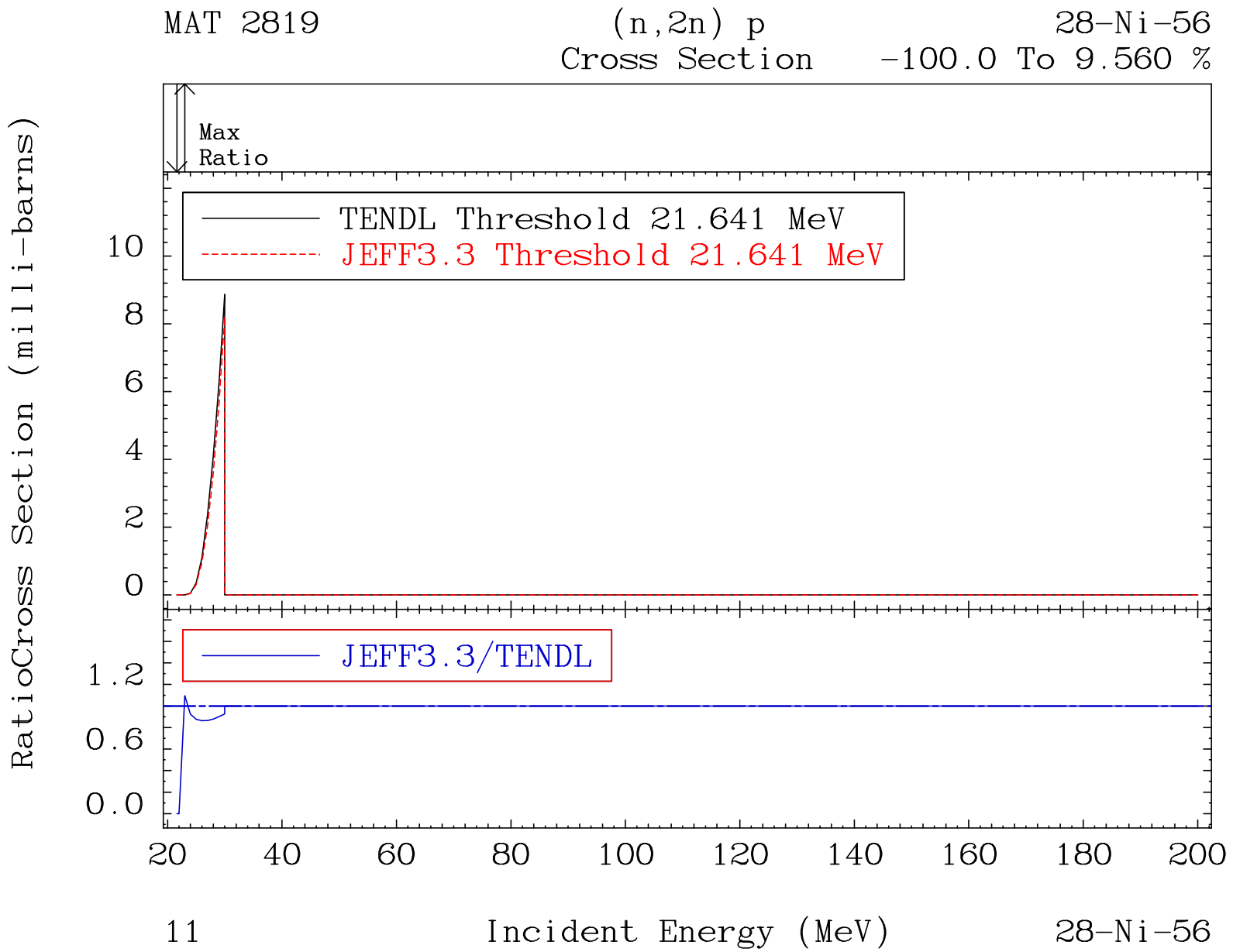

MAT 2819
(n,n') p
Cross Section
28-Ni-56
-9.136 To 9999. %
Min
Ratio
TENDL Threshold 7.2958 MeV
JEFF3.3 Threshold 7.2958 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
600
500
400
300
200
100
0
10^4
10^2
10^0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
6
Incident Energy (eV)
28-Ni-56

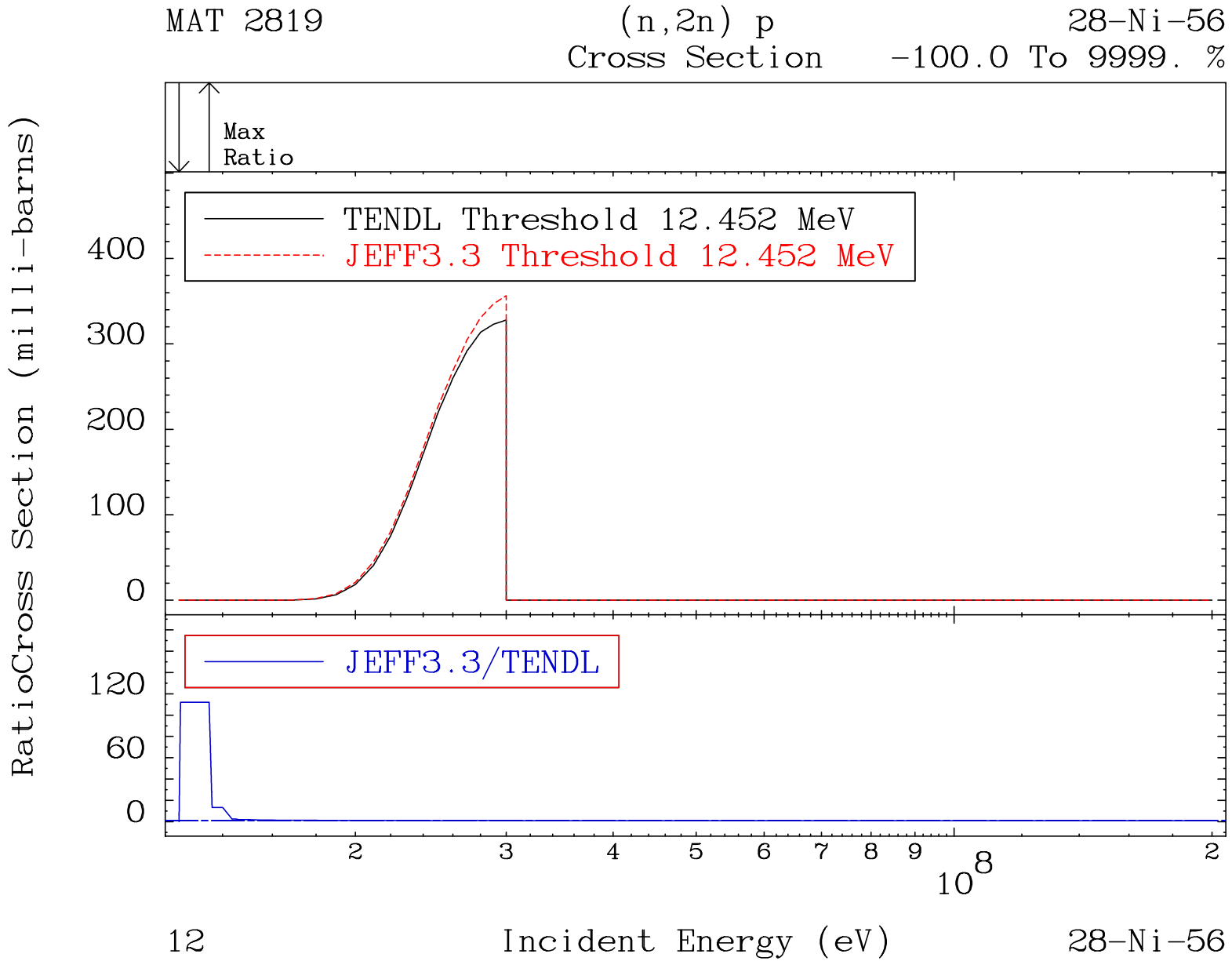

MAT 2819
(n,n') 2α
28-Ni-56
Cross Section 0.000 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 16.224 MeV
JEFF3.3 Threshold 16.224 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^-9 barns)
250
200
150
100
50
0
10^2
10^1
10^0
2
3
4
5
6
7
8
9
10^8
2
7
Incident Energy (eV)
28-Ni-56

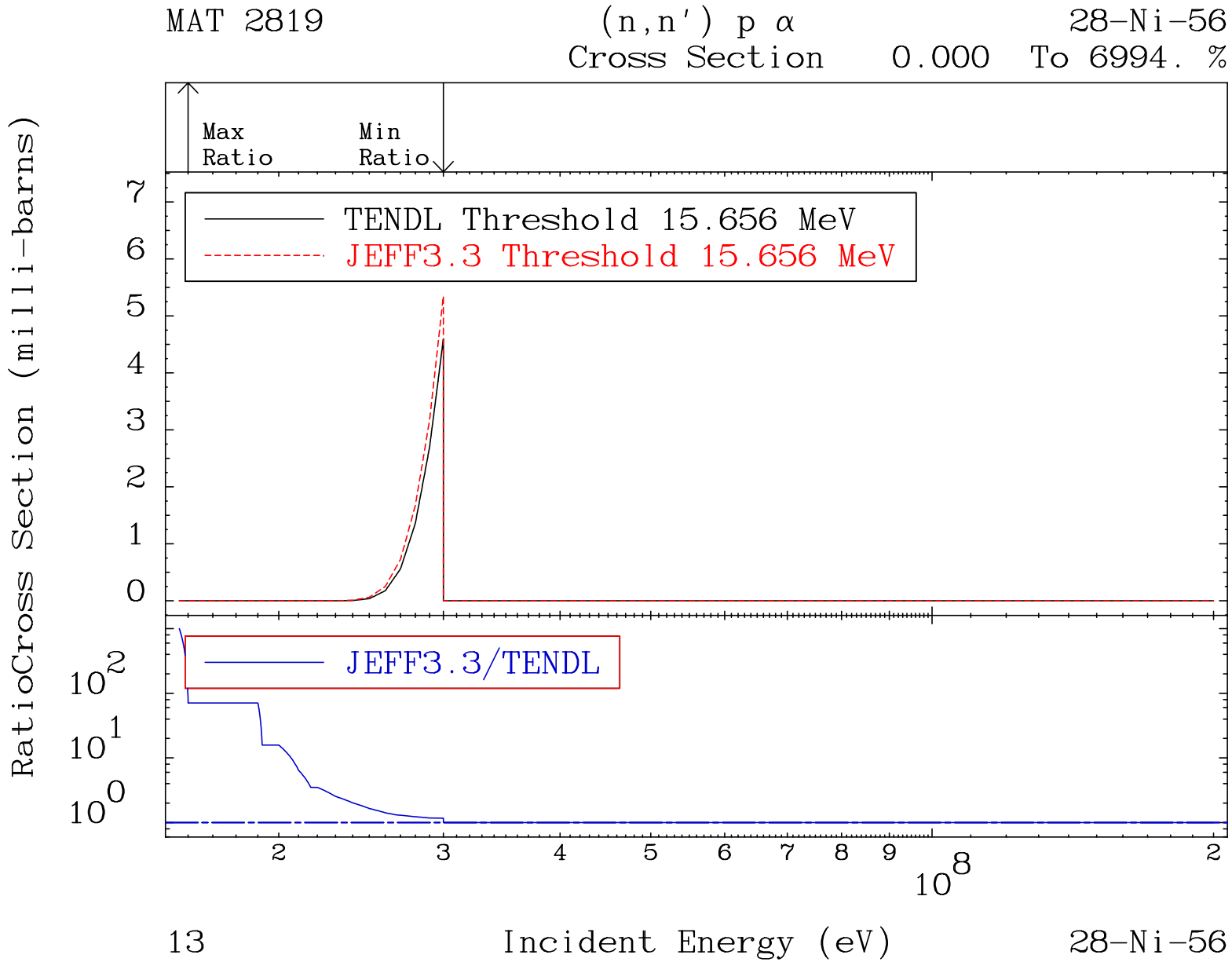

MAT 2819
(n,n') d
Cross Section
28-Ni-56
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 19.376 MeV
JEFF3.3 Threshold 19.376 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
1.6
1.2
0.8
0.4
0.0
100
0
2
3
4
5
6
7
8
9
10^8
2
8
Incident Energy (eV)
28-Ni-56

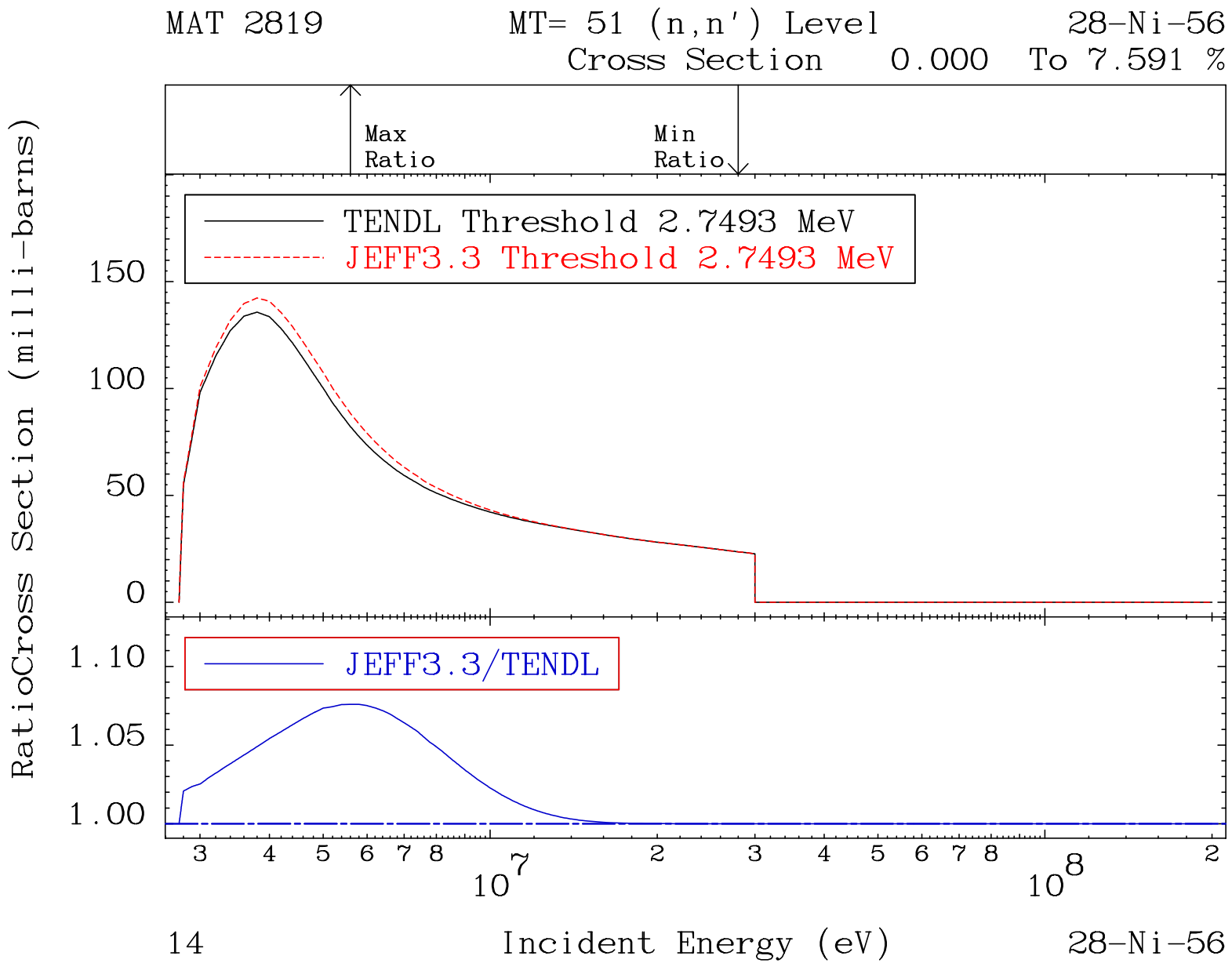

MAT 2819
(n,n') t
Cross Section
28-Ni-56
-100.0 To 3233. %
Max
Ratio
TENDL Threshold 26.670 MeV
JEFF3.3 Threshold 26.670 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^-9 barns)
50
40
30
20
10
0
40
20
0
40
60
80
100
120
140
160
180
200
9
Incident Energy (MeV)
28-Ni-56

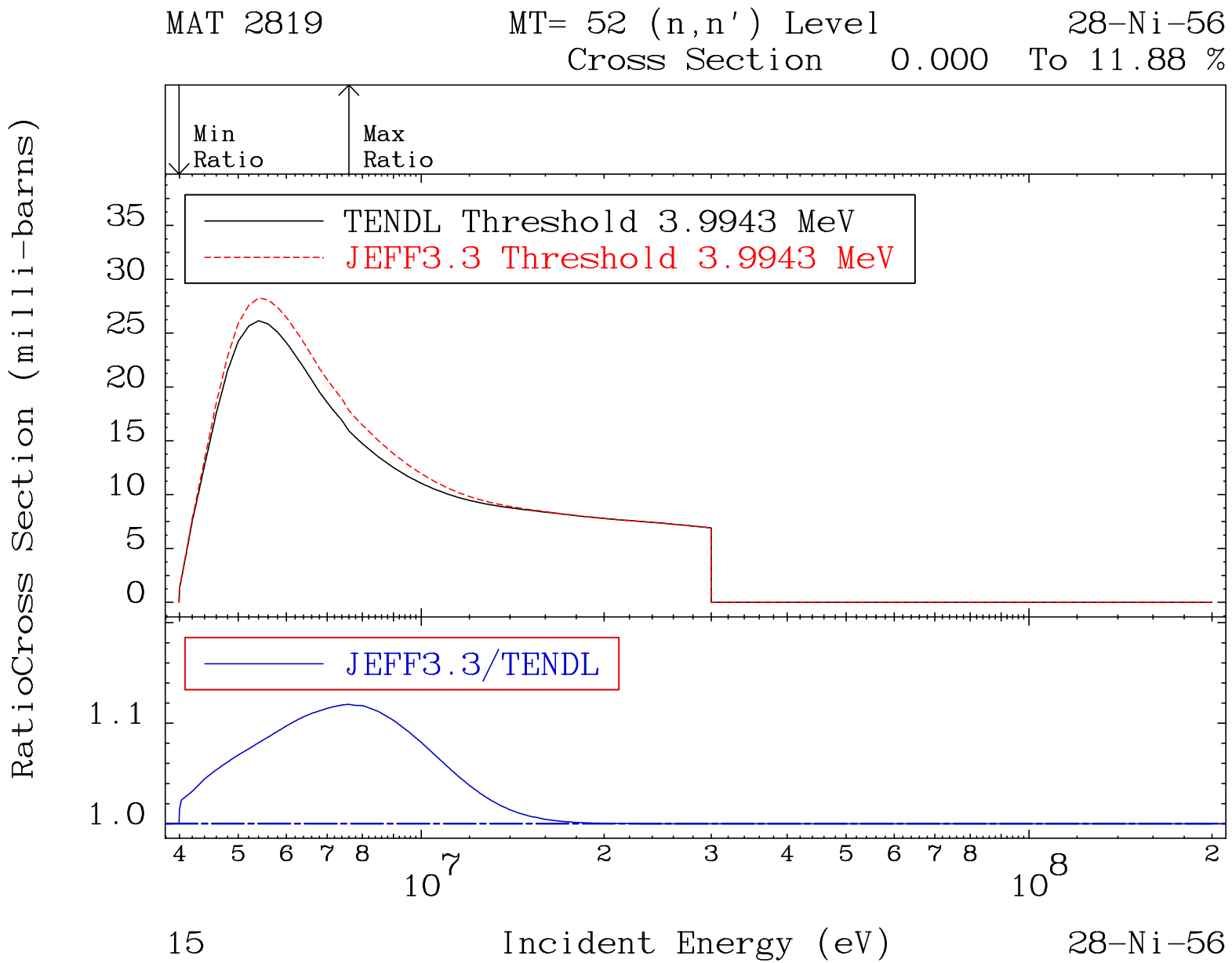

MAT 2819
(n,n') He-3
Cross Section
28-Ni-56
-100.0 To 2569. %
Max
Ratio
TENDL Threshold 18.214 MeV
JEFF3.3 Threshold 18.214 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
1.6
1.2
0.8
0.4
0.0
40
20
0
2
3
4
5
6
7
8
9
10^8
2
10
Incident Energy (eV)
28-Ni-56

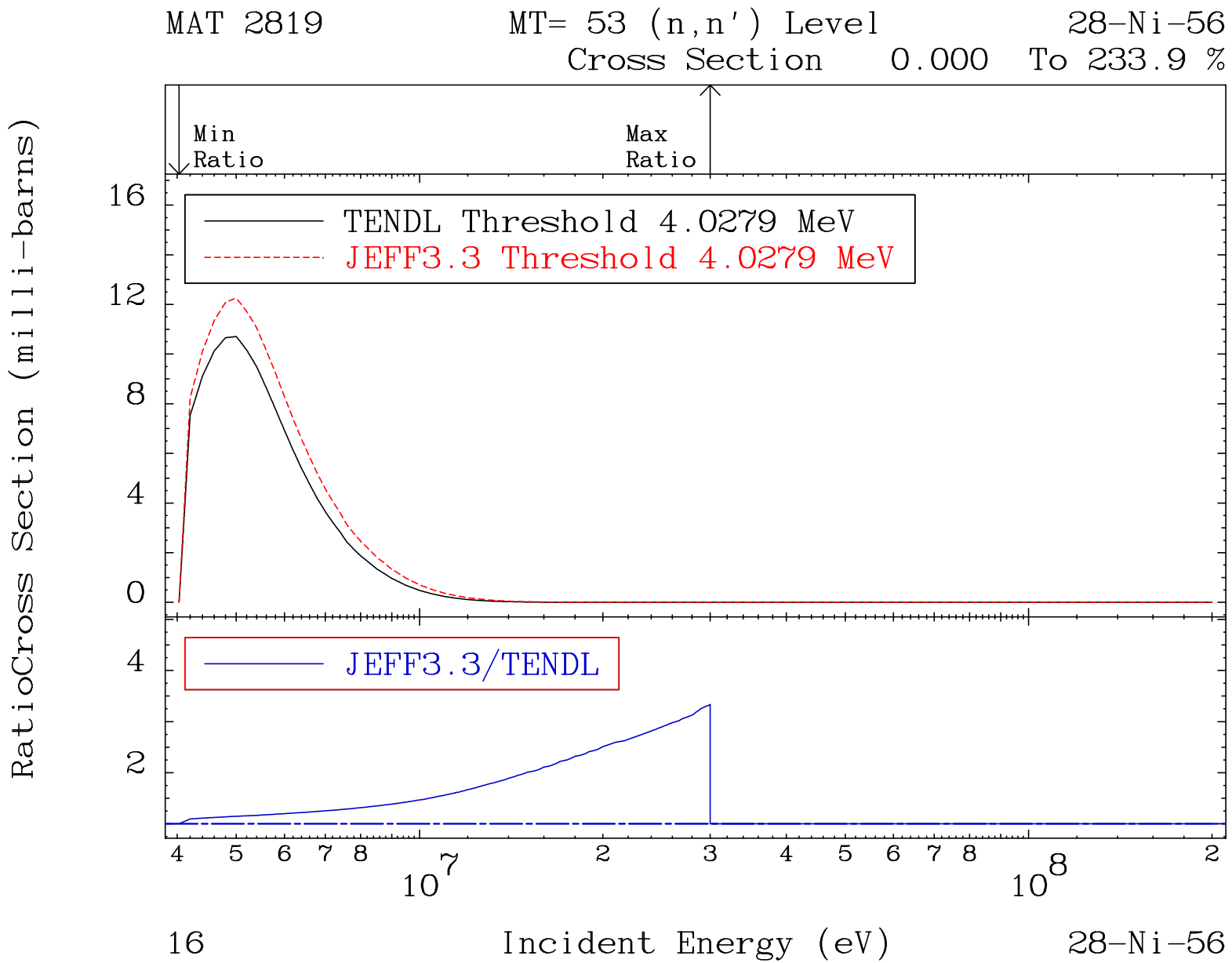

MAT 2819
(n,2n) p
Cross Section
28-Ni-56
-100.0 To 9.560 %
Max
Ratio
TENDL Threshold 21.641 MeV
JEFF3.3 Threshold 21.641 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
10
8
6
4
2
0
1.2
0.6
0.0
20
40
60
80
100
120
140
160
180
200
11
Incident Energy (MeV)
28-Ni-56

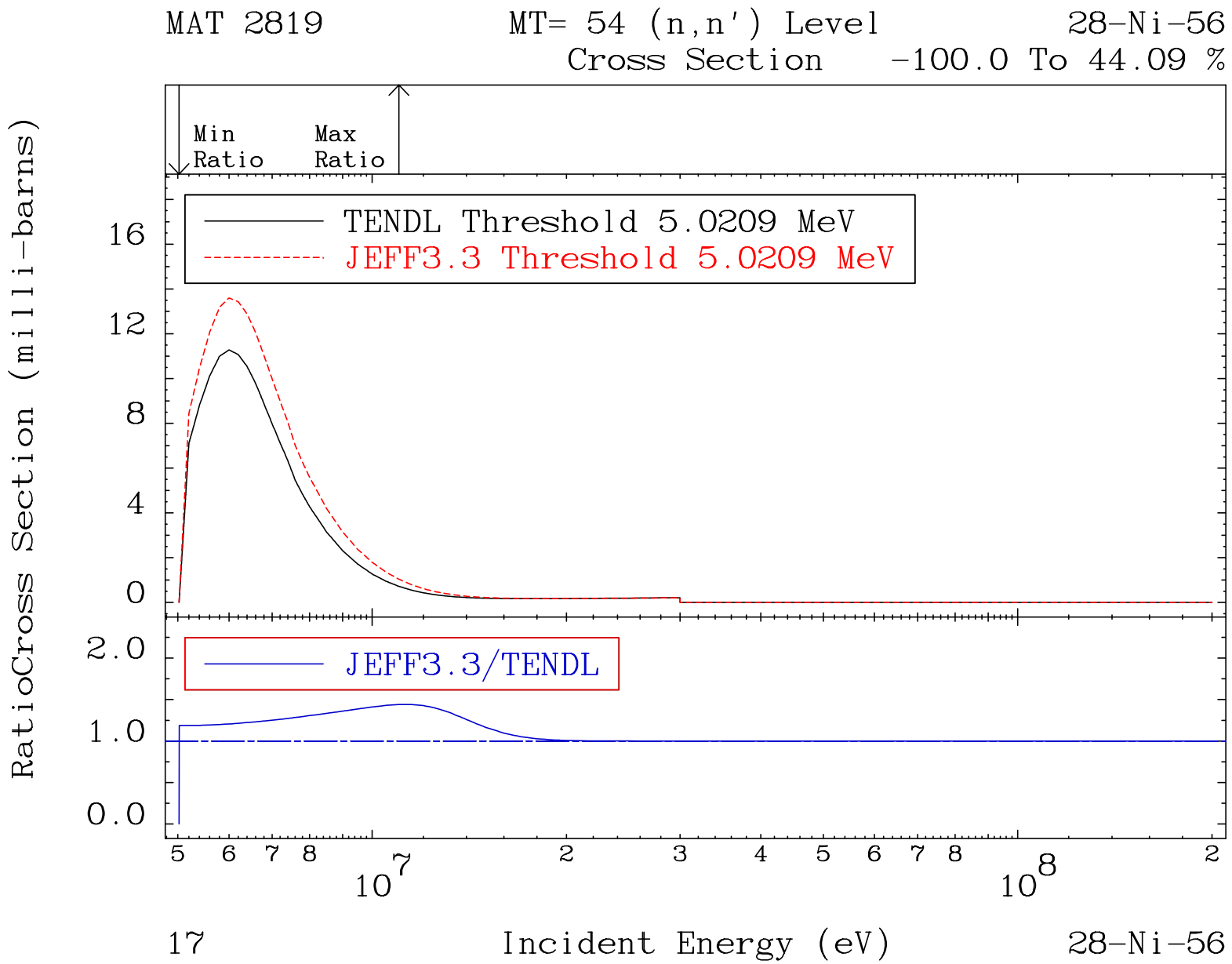

MAT 2819
(n,2n) p
Cross Section
28-Ni-56
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 12.452 MeV
JEFF3.3 Threshold 12.452 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
120
60
0
2
3
4
5
6
7
8
9
10^8
2
12
Incident Energy (eV)
28-Ni-56

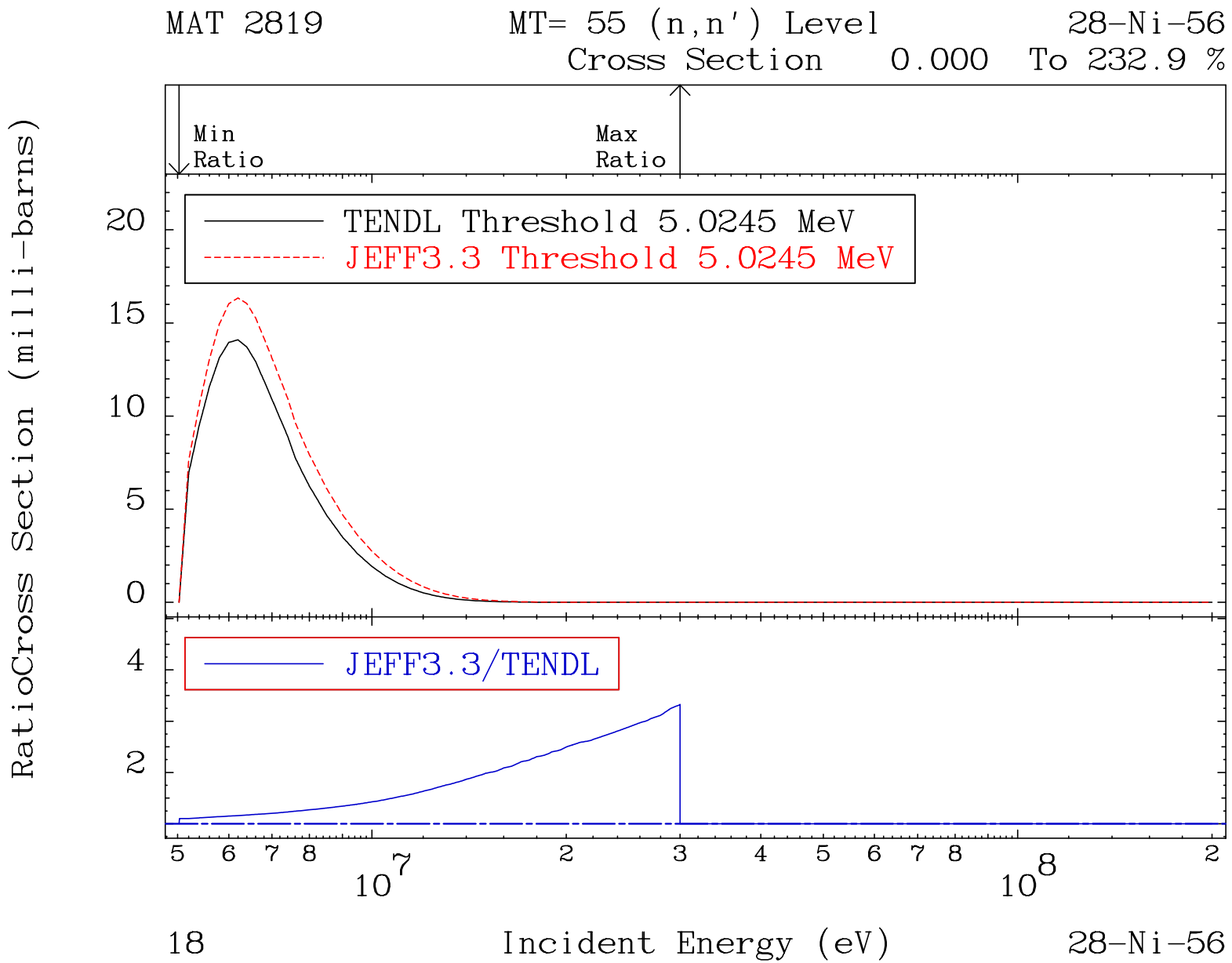

MAT 2819
(n,n') p α
28-Ni-56
Cross Section 0.000 To 6994. %
Max Ratio
Min Ratio
TENDL Threshold 15.656 MeV
JEFF3.3 Threshold 15.656 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
13
28-Ni-56

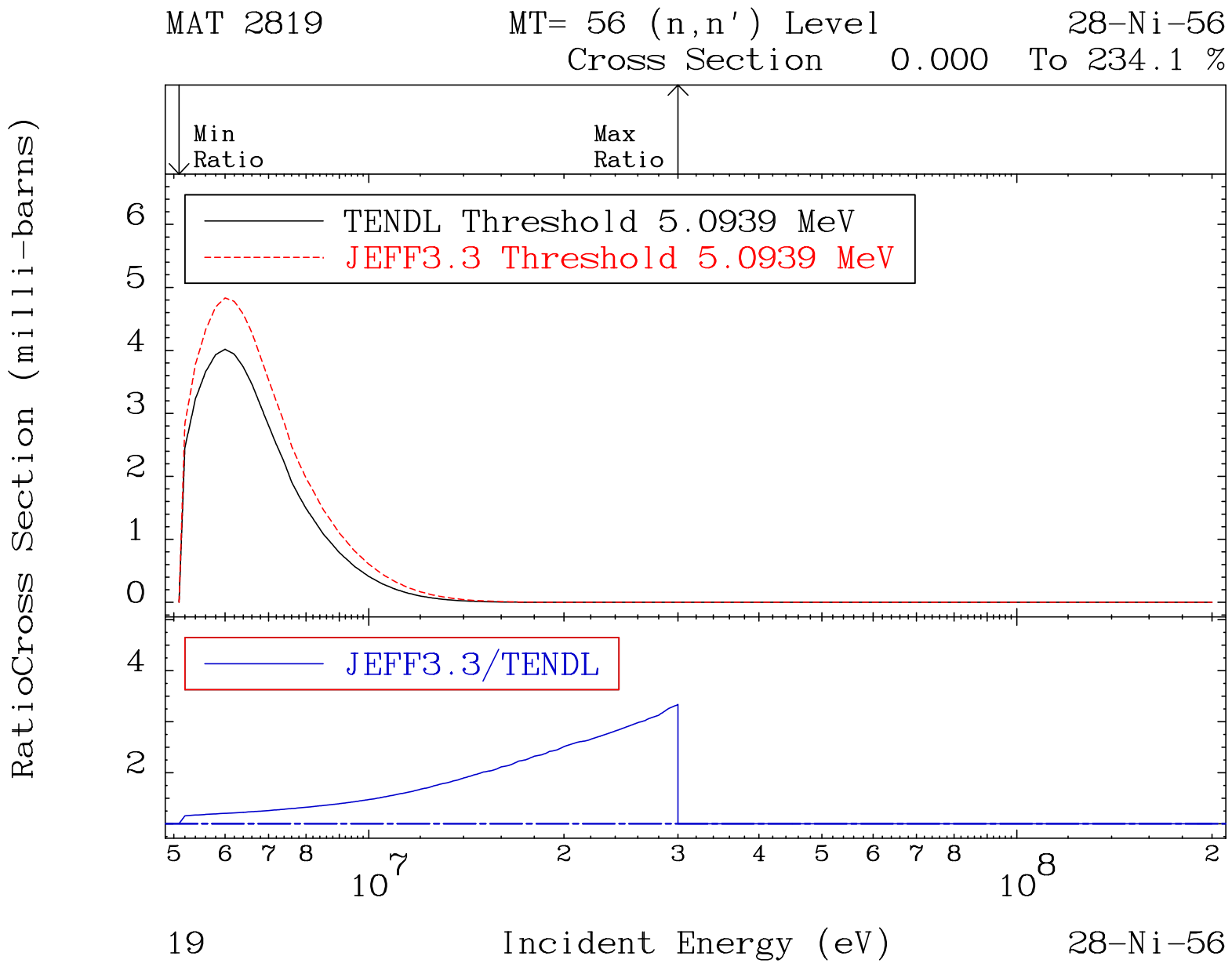

MAT 2819
MT= 51 (n,n') Level
28-Ni-56
Cross Section 0.000 To 7.591 %
Max Ratio
Min Ratio
TENDL Threshold 2.7493 MeV
JEFF3.3 Threshold 2.7493 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
150
100
50
0
1.10
1.05
1.00
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
14
Incident Energy (eV)
28-Ni-56

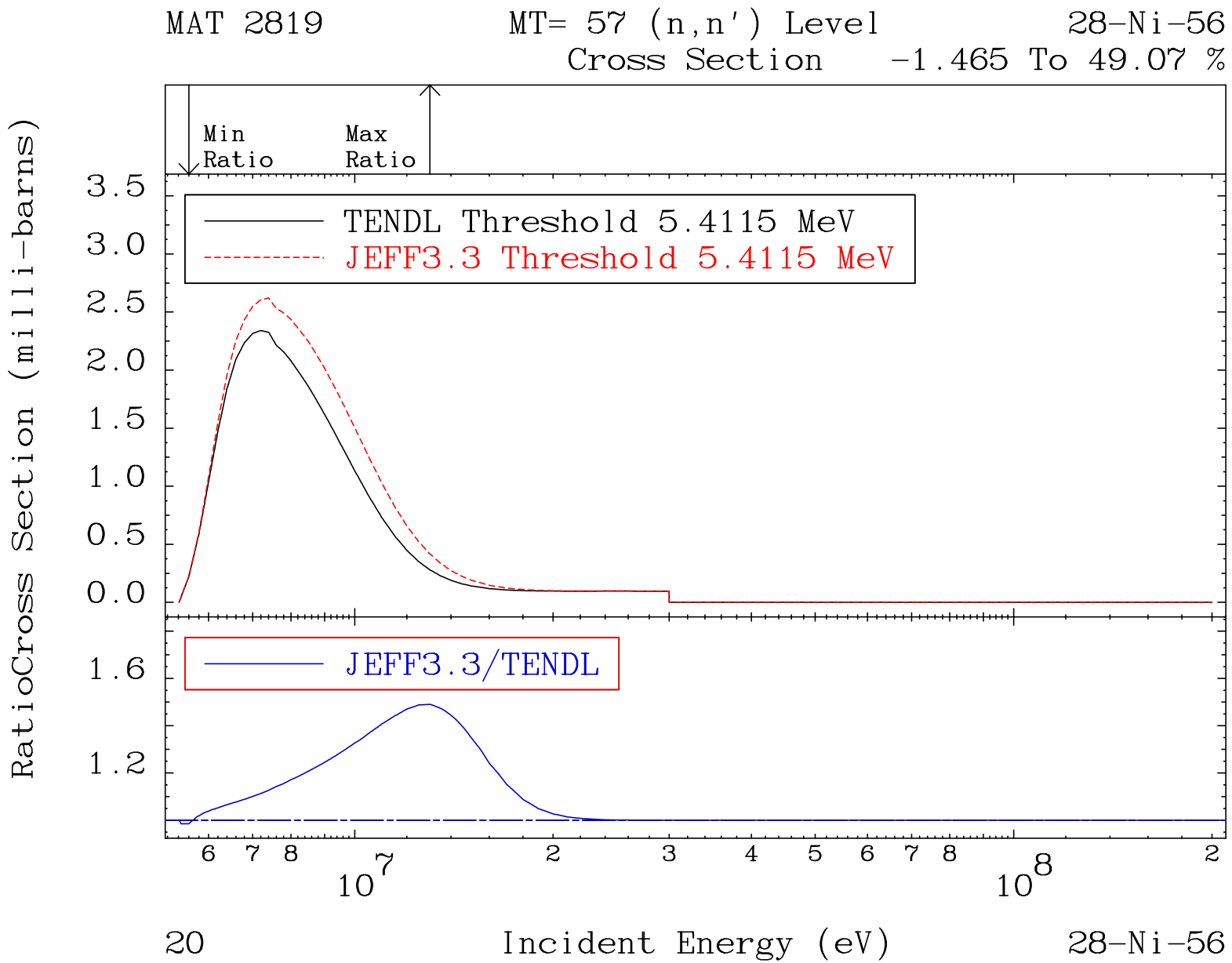

MAT 2819
MT= 52 (n,n') Level
28-Ni-56
Cross Section 0.000 To 11.88 %
Min Ratio
Max Ratio
TENDL Threshold 3.9943 MeV
JEFF3.3 Threshold 3.9943 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
35
30
25
20
15
10
5
0
1.1
1.0
4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
15
Incident Energy (eV)
28-Ni-56

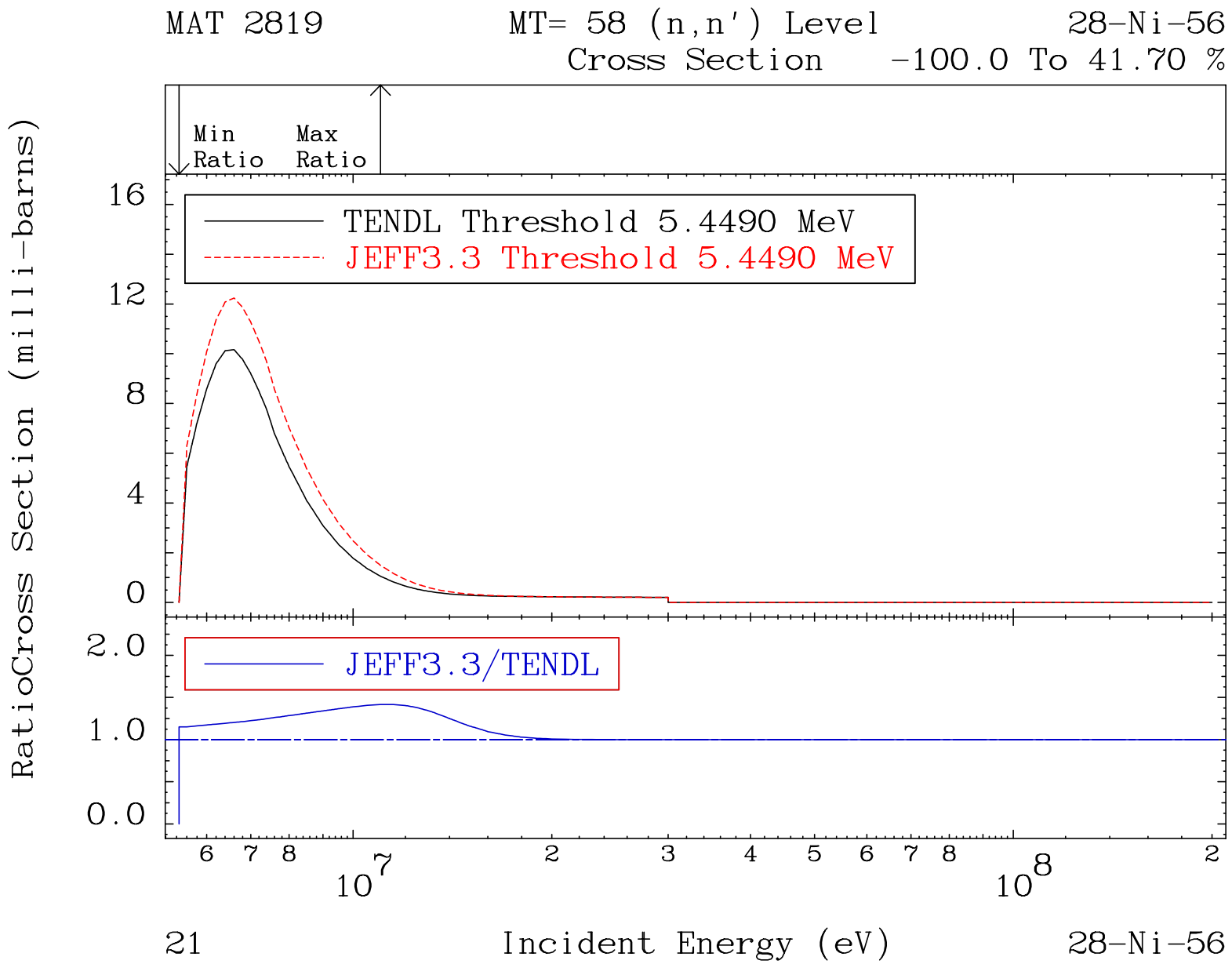

MAT 2819
MT= 53 (n,n') Level
28-Ni-56
Cross Section 0.000 To 233.9 %
Min Ratio
Max Ratio
TENDL Threshold 4.0279 MeV
JEFF3.3 Threshold 4.0279 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
16
28-Ni-56

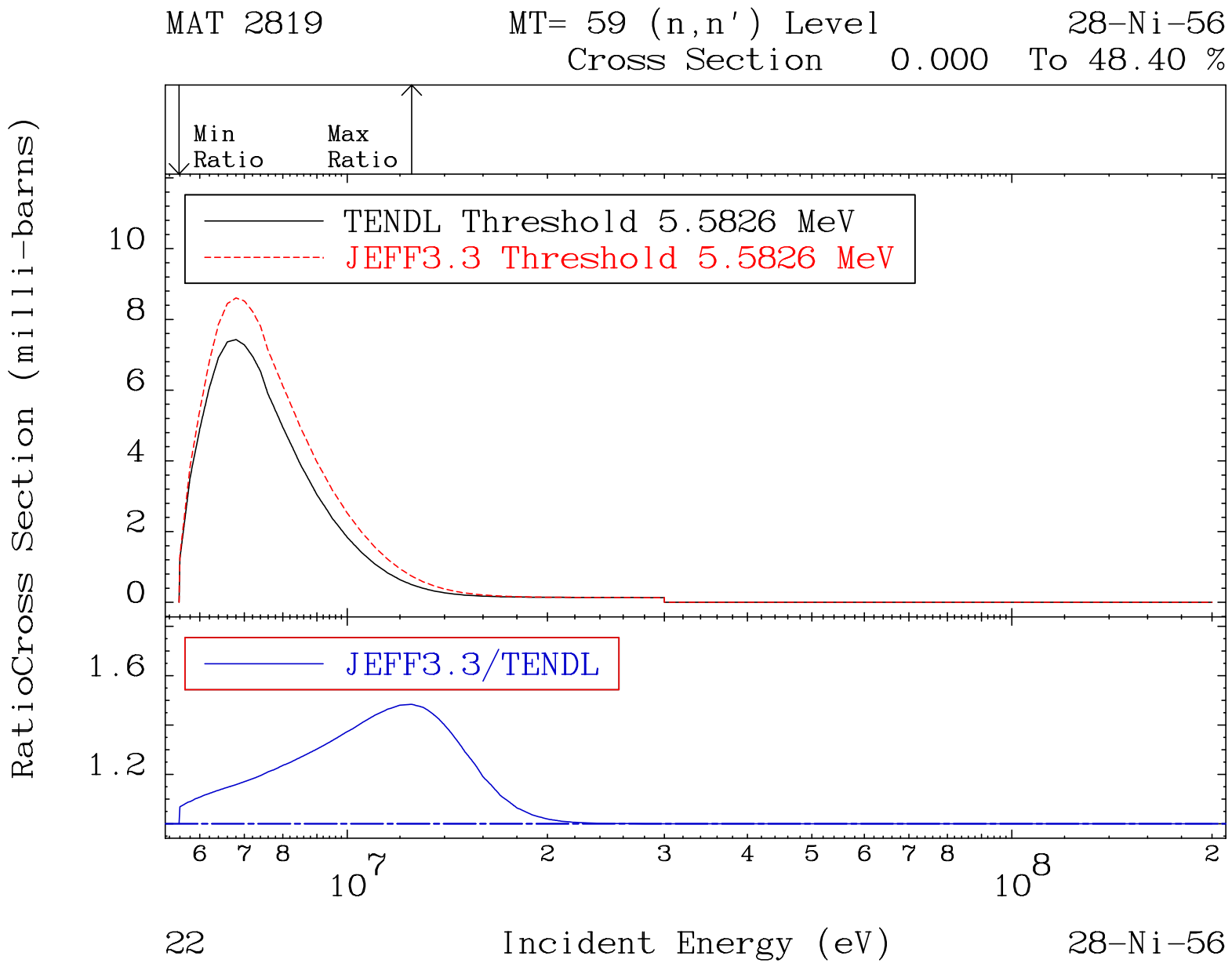

MAT 2819
MT= 54 (n,n') Level
28-Ni-56
Cross Section -100.0 To 44.09 %
Min Ratio
Max Ratio
TENDL Threshold 5.0209 MeV
JEFF3.3 Threshold 5.0209 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
2.0
1.0
0.0
5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
17
Incident Energy (eV)
28-Ni-56

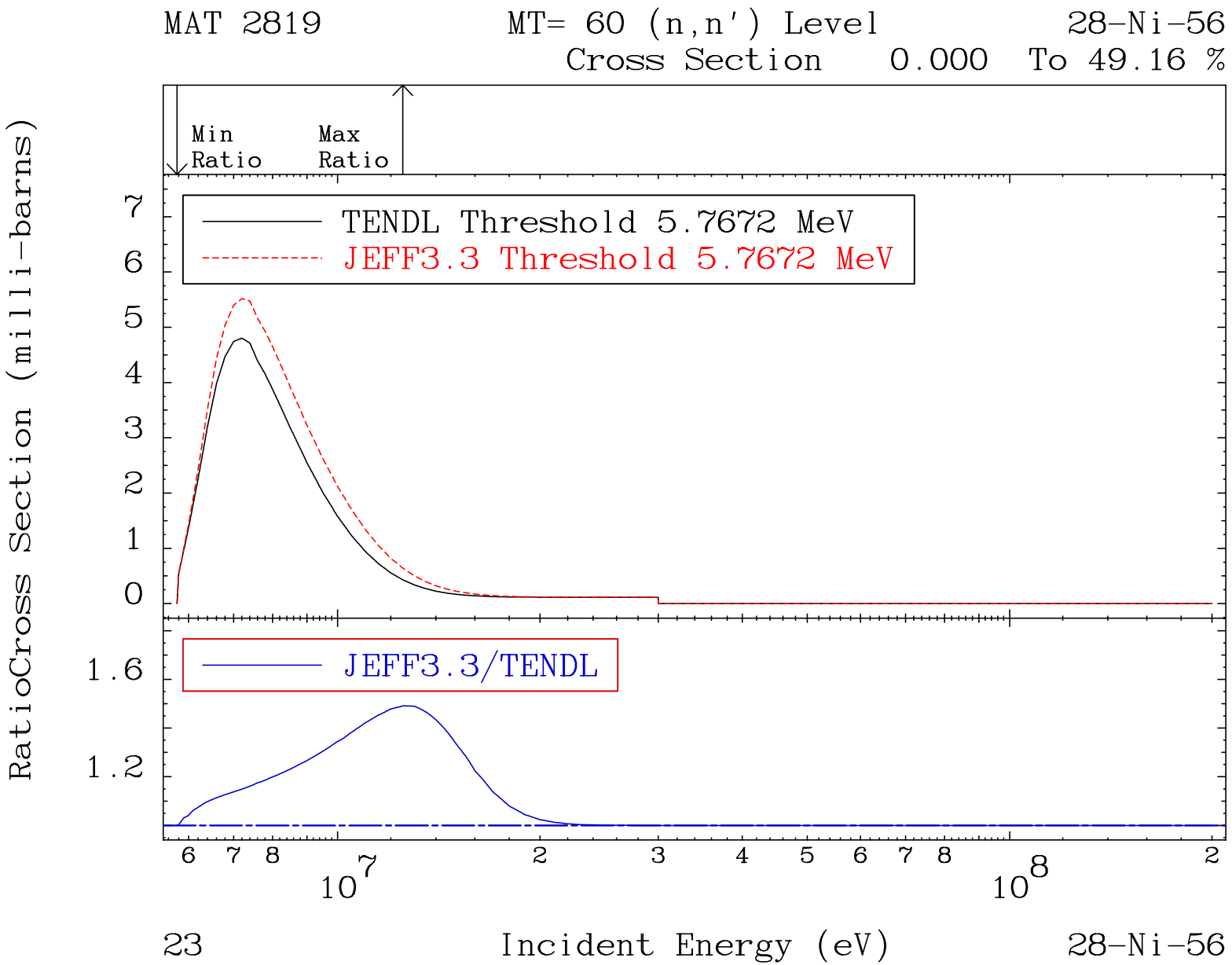

MAT 2819
MT= 55 (n,n') Level
28-Ni-56
Cross Section 0.000 To 232.9 %
Min Ratio
Max Ratio
TENDL Threshold 5.0245 MeV
JEFF3.3 Threshold 5.0245 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
20
15
10
5
0
4
2
5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
18
Incident Energy (eV)
28-Ni-56

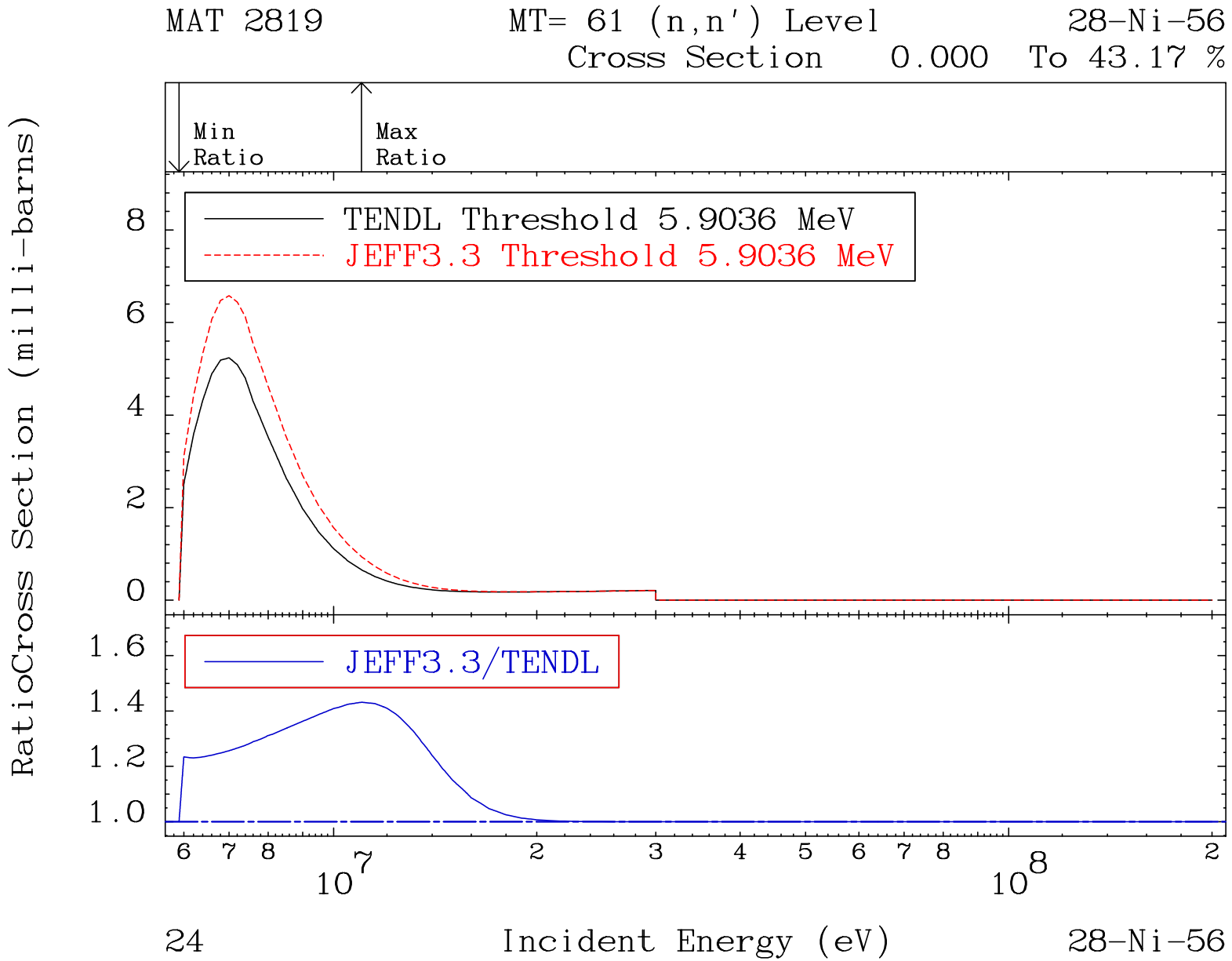

MAT 2819
MT= 56 (n,n') Level
28-Ni-56
Cross Section 0.000 To 234.1 %
Min Ratio
Max Ratio
TENDL Threshold 5.0939 MeV
JEFF3.3 Threshold 5.0939 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
19
28-Ni-56

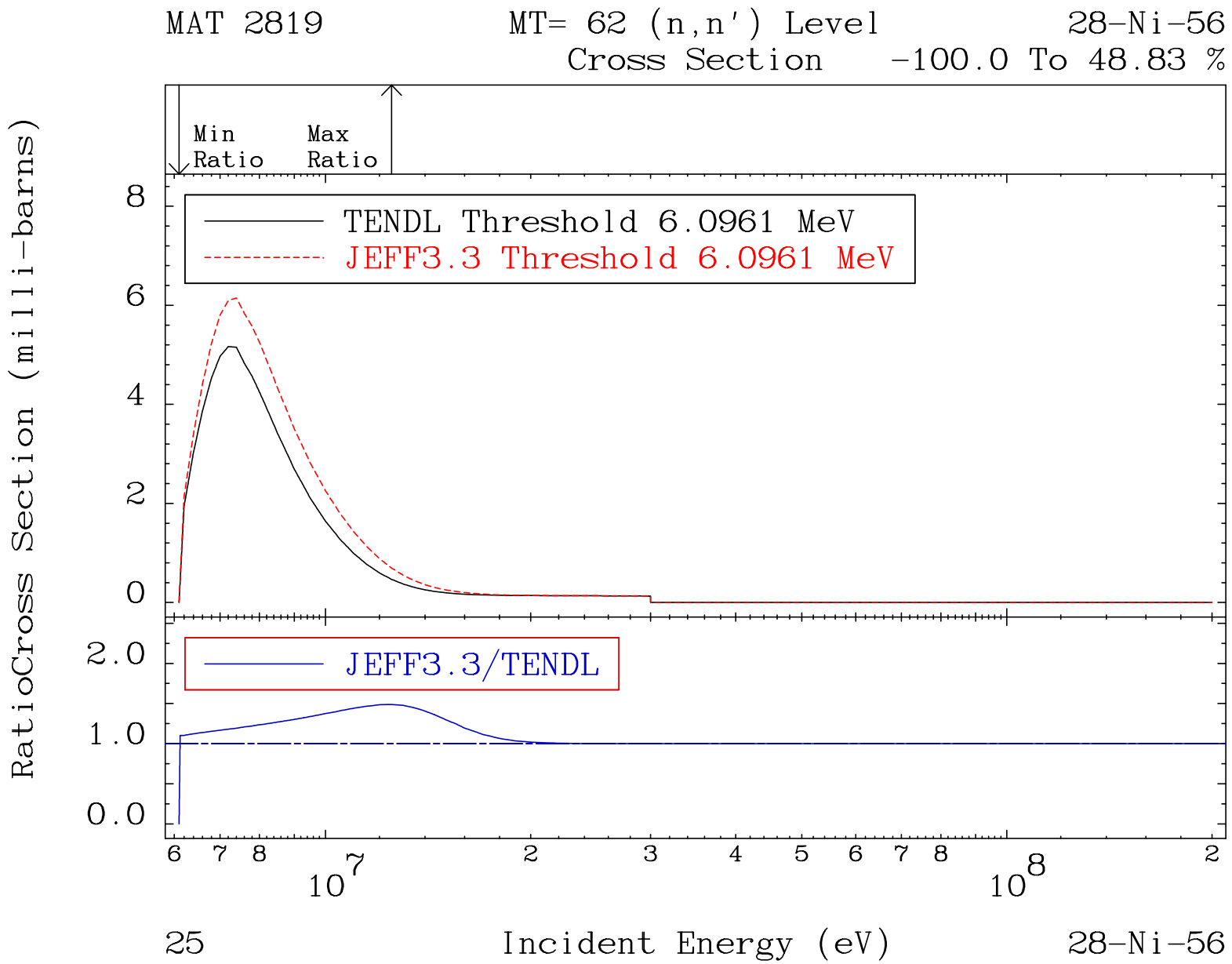

MAT 2819
MT= 57 (n,n') Level
28-Ni-56
Cross Section -1.465 To 49.07 %
Min Ratio
Max Ratio
TENDL Threshold 5.4115 MeV
JEFF3.3 Threshold 5.4115 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
1.6
1.2
6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
20
Incident Energy (eV)
28-Ni-56

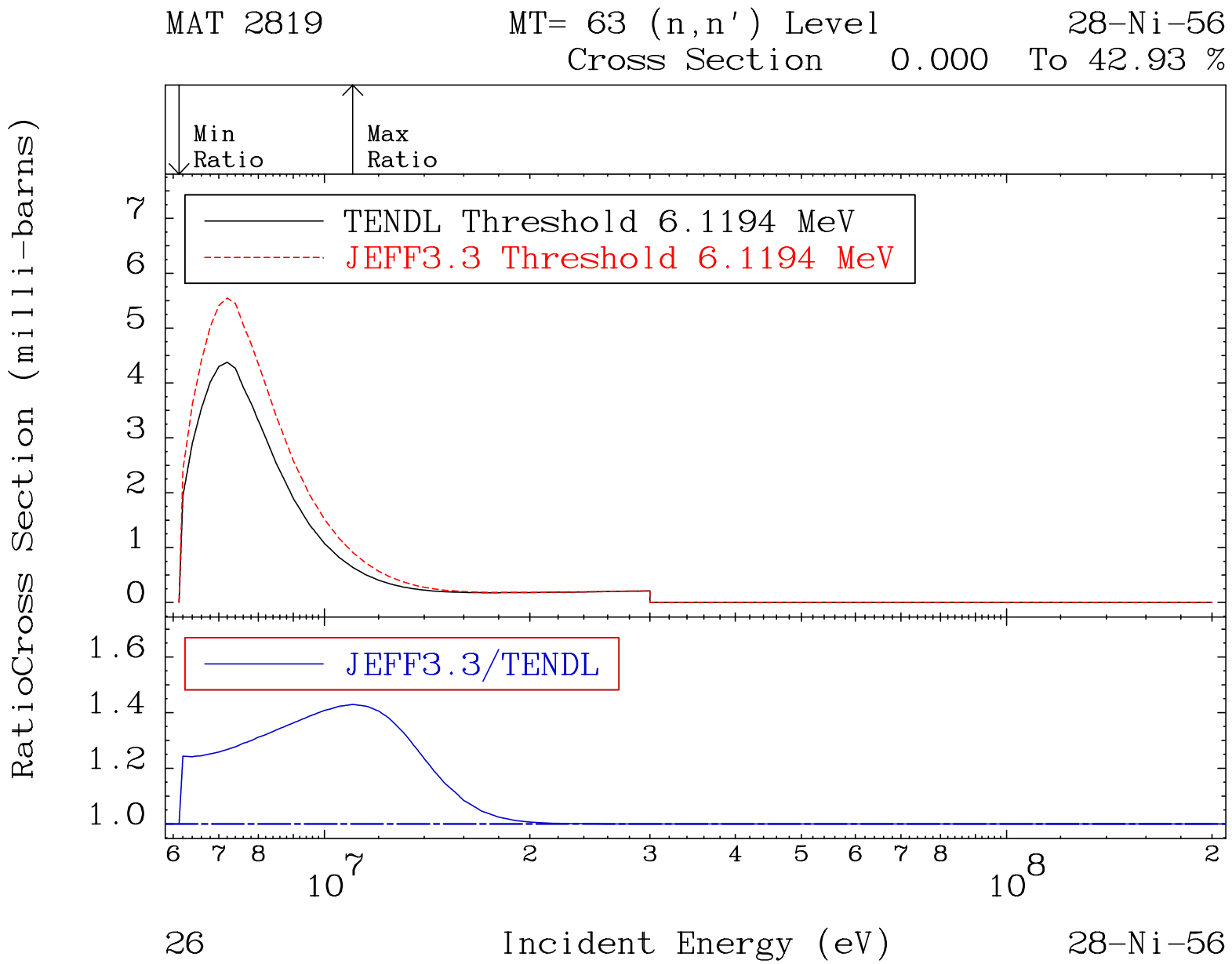

MAT 2819
MT= 58 (n,n') Level
28-Ni-56
Cross Section -100.0 To 41.70 %
Min Ratio
Max Ratio
TENDL Threshold 5.4490 MeV
JEFF3.3 Threshold 5.4490 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
2.0
1.0
0.0
6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
21
Incident Energy (eV)
28-Ni-56

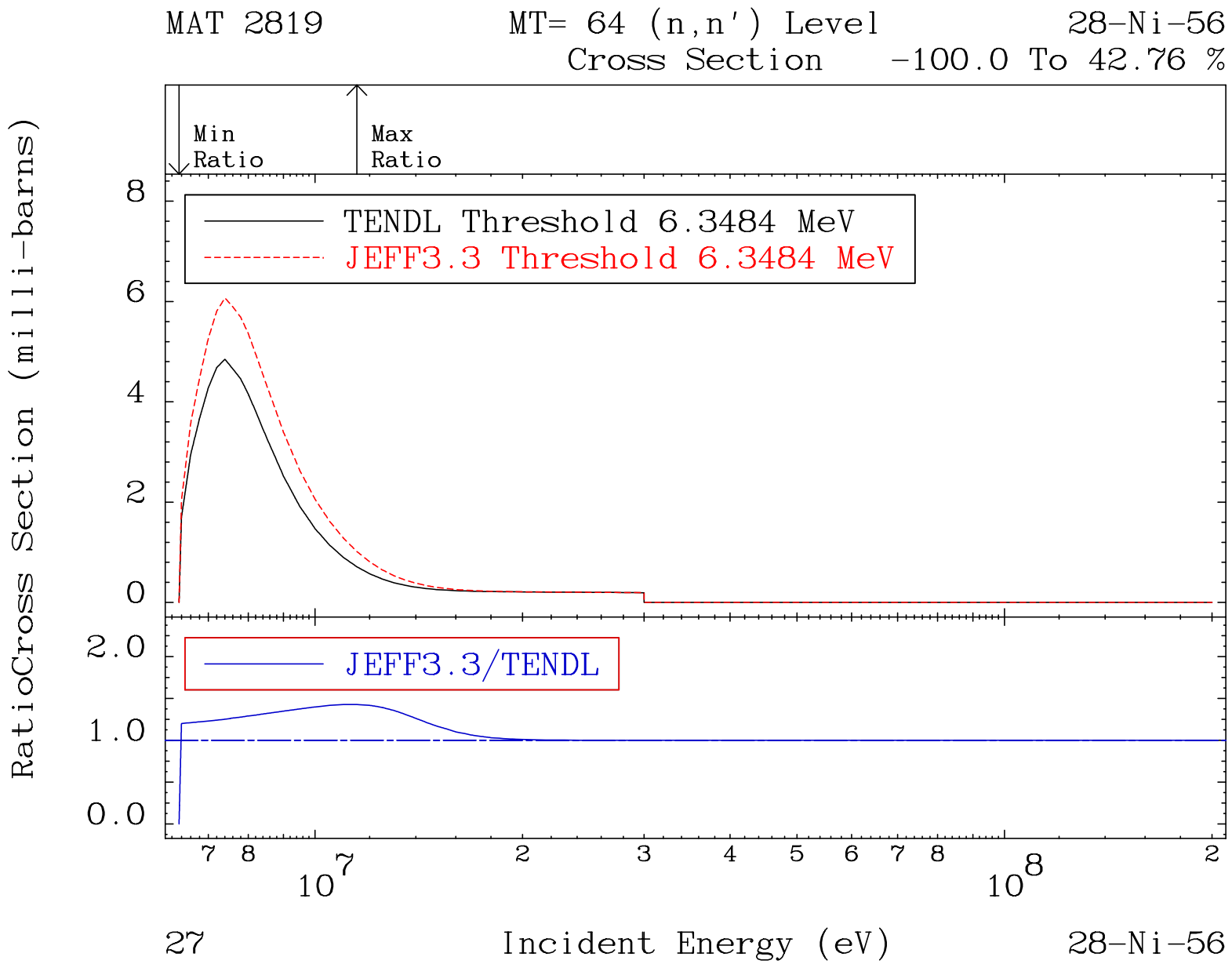

MAT 2819
MT= 59 (n,n') Level
28-Ni-56
Cross Section 0.000 To 48.40 %
Min Ratio
Max Ratio
TENDL Threshold 5.5826 MeV
JEFF3.3 Threshold 5.5826 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
22
28-Ni-56

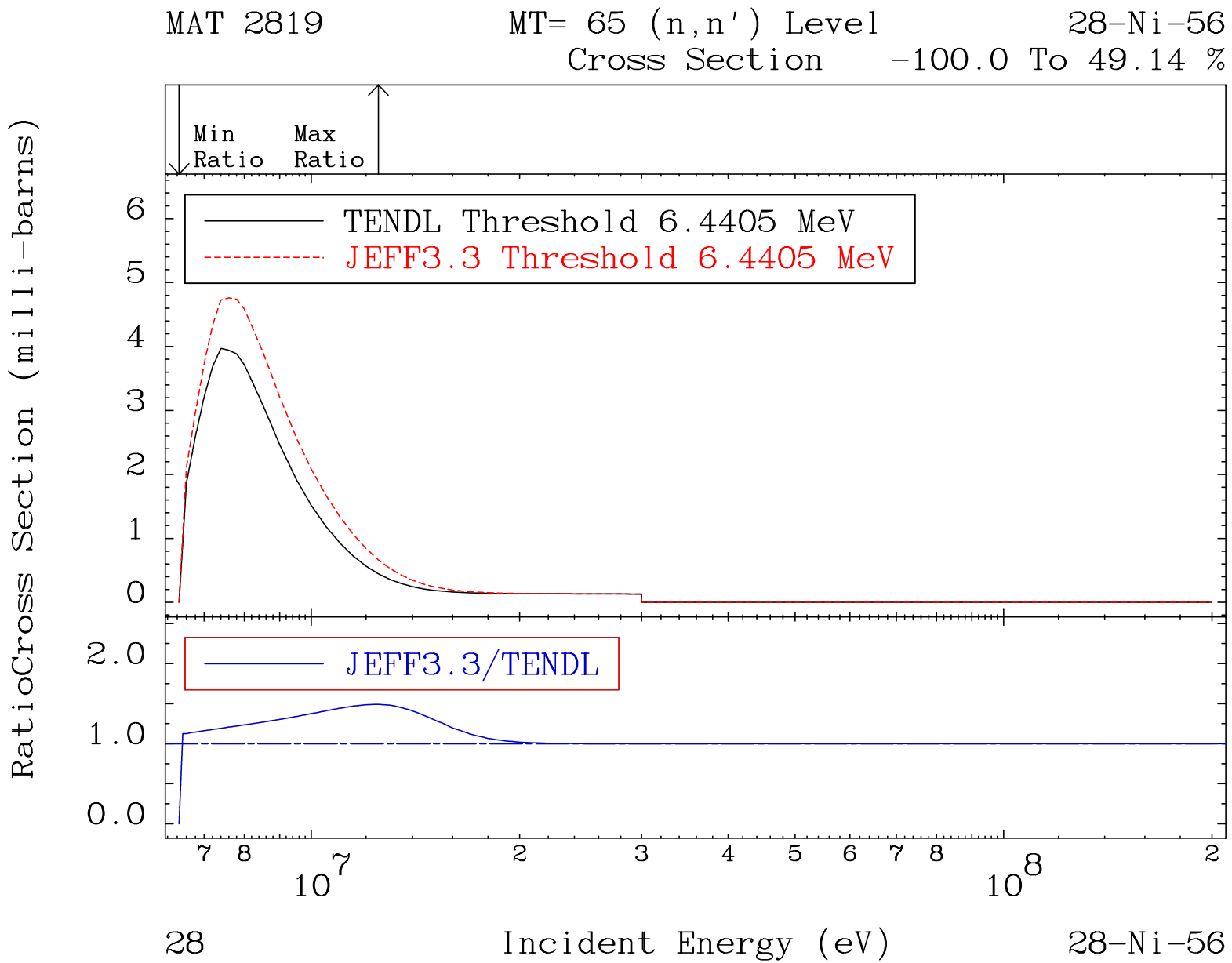

MAT 2819
MT= 60 (n,n') Level
28-Ni-56
Cross Section 0.000 To 49.16 %
Min Ratio
Max Ratio
TENDL Threshold 5.7672 MeV
JEFF3.3 Threshold 5.7672 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
23
28-Ni-56

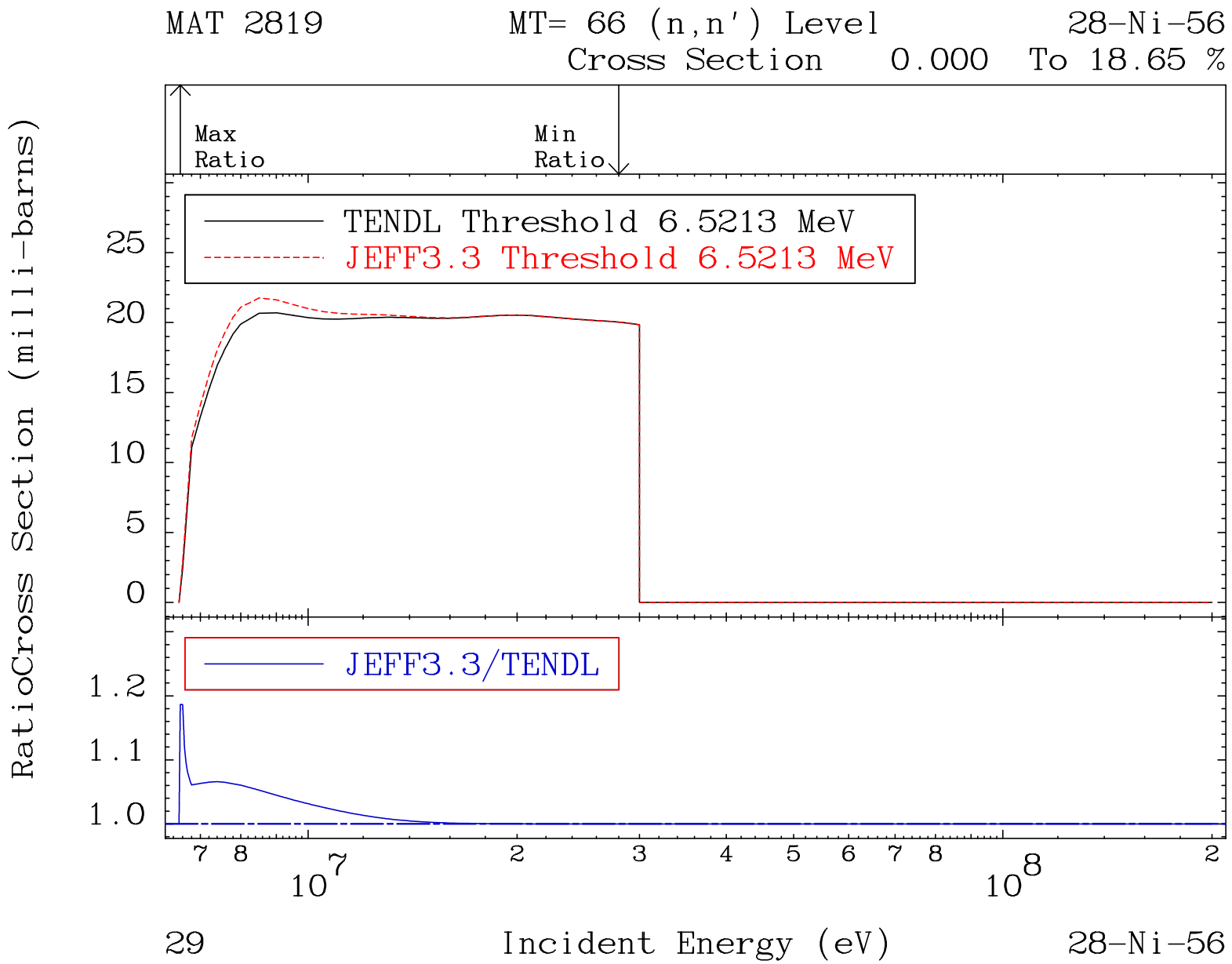

MAT 2819
MT= 61 (n,n') Level
28-Ni-56
Cross Section 0.000 To 43.17 %
Min Ratio
Max Ratio
TENDL Threshold 5.9036 MeV
JEFF3.3 Threshold 5.9036 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
24
28-Ni-56

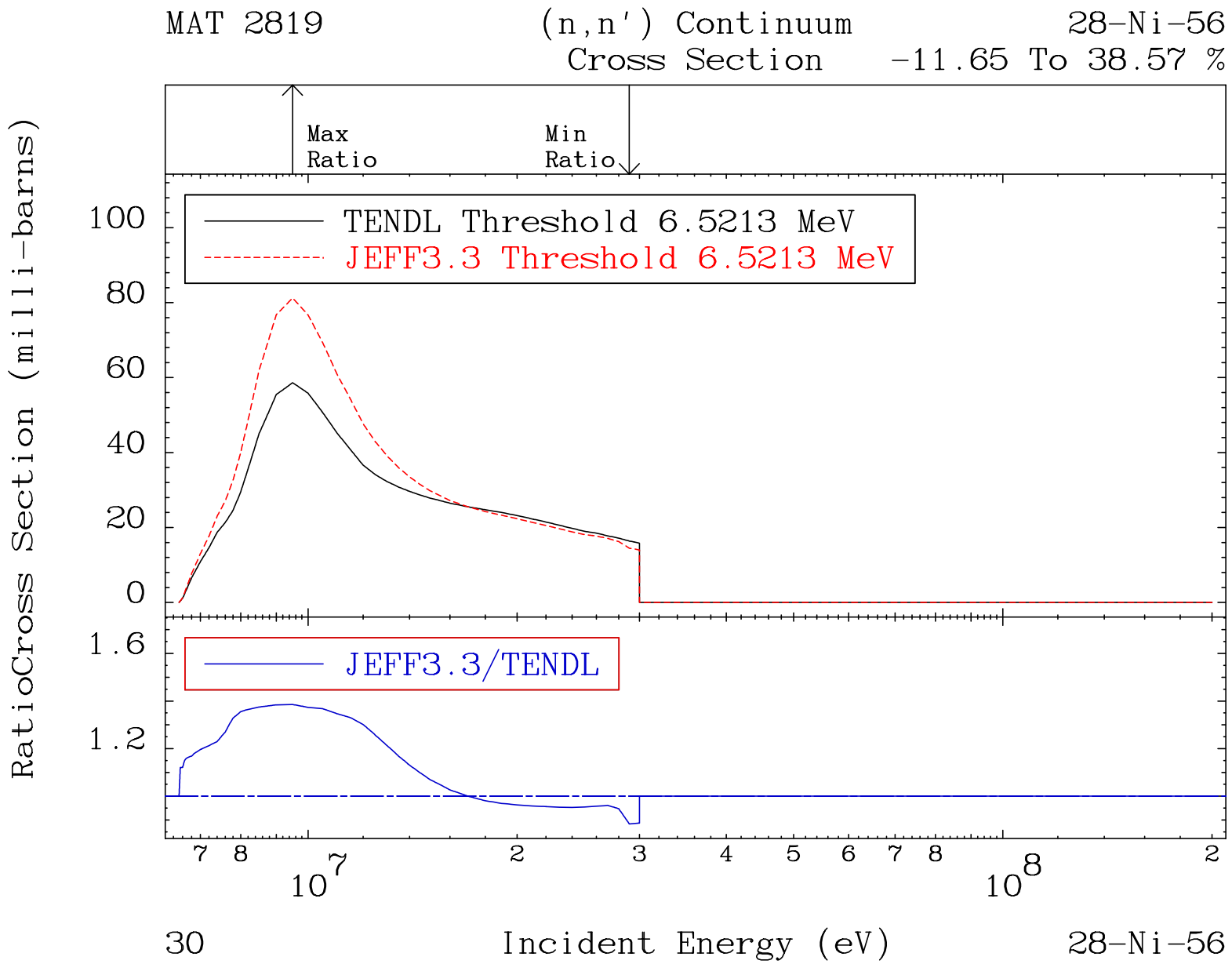

MAT 2819
MT= 62 (n,n') Level
28-Ni-56
Cross Section -100.0 To 48.83 %
Min Ratio
Max Ratio
TENDL Threshold 6.0961 MeV
JEFF3.3 Threshold 6.0961 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
25
28-Ni-56

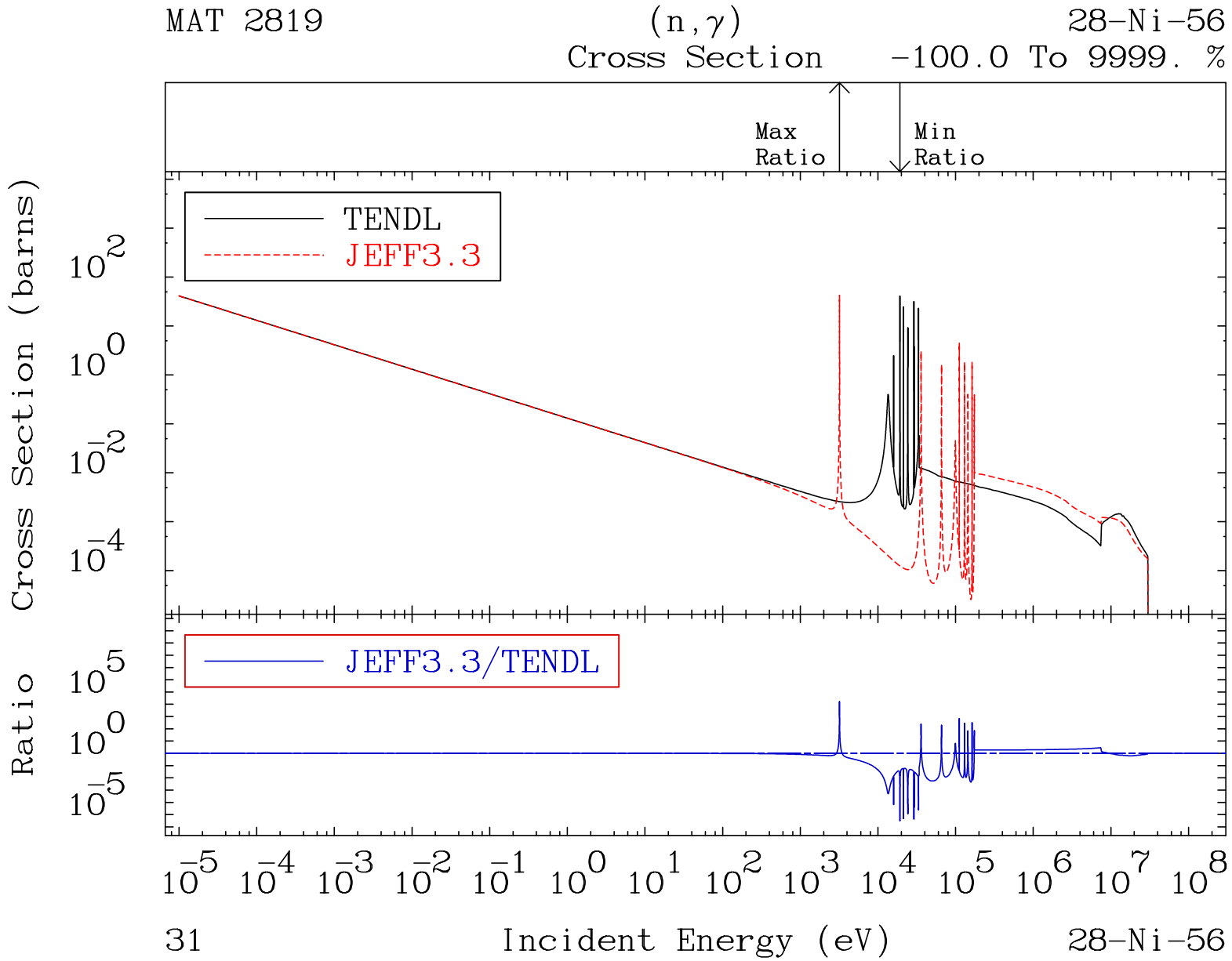

MAT 2819
MT= 63 (n,n') Level
28-Ni-56
Cross Section 0.000 To 42.93 %
Min Ratio
Max Ratio
TENDL Threshold 6.1194 MeV
JEFF3.3 Threshold 6.1194 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
26
28-Ni-56

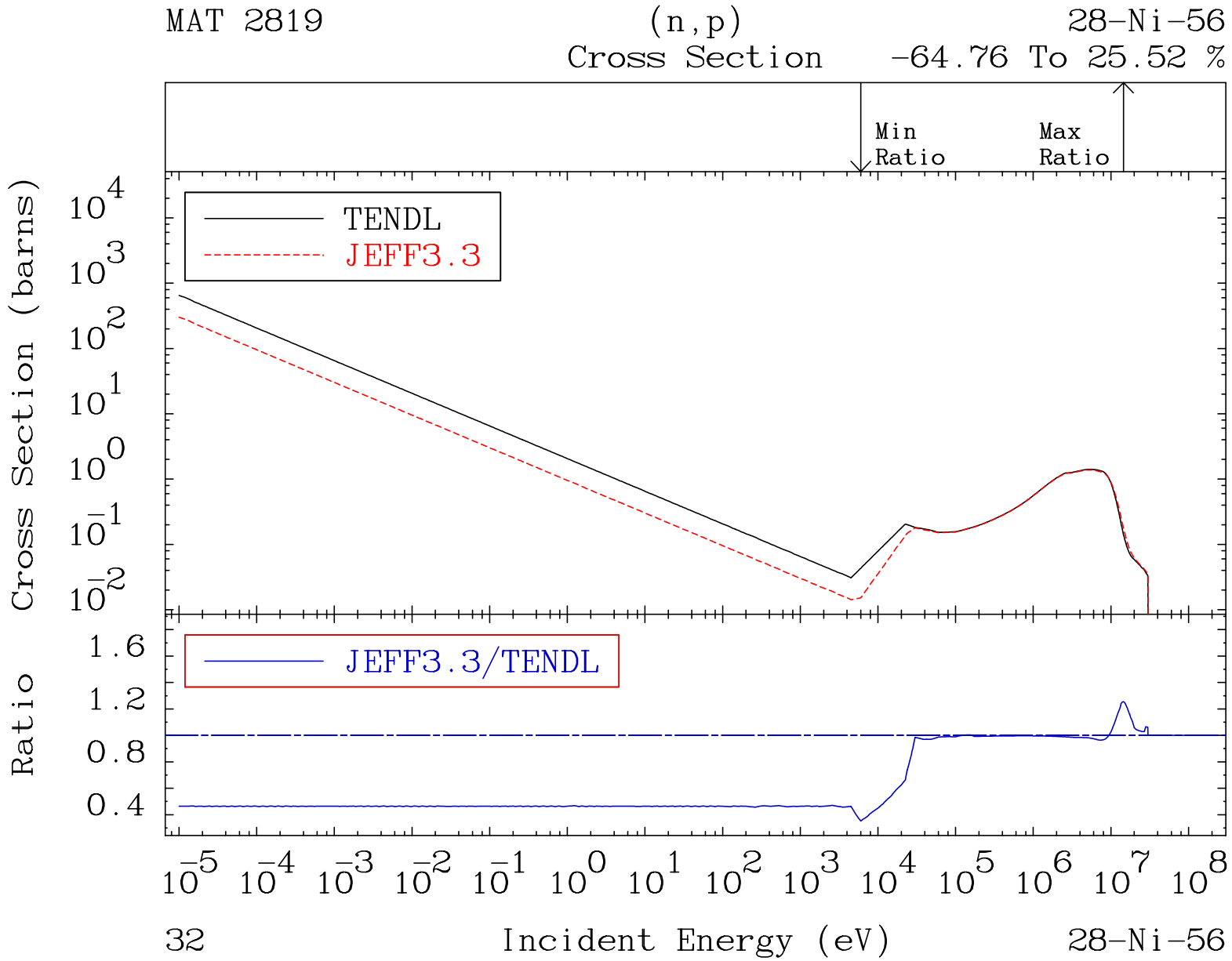

MAT 2819
MT= 64 (n,n') Level
28-Ni-56
Cross Section -100.0 To 42.76 %
Min Ratio
Max Ratio
TENDL Threshold 6.3484 MeV
JEFF3.3 Threshold 6.3484 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
27
28-Ni-56

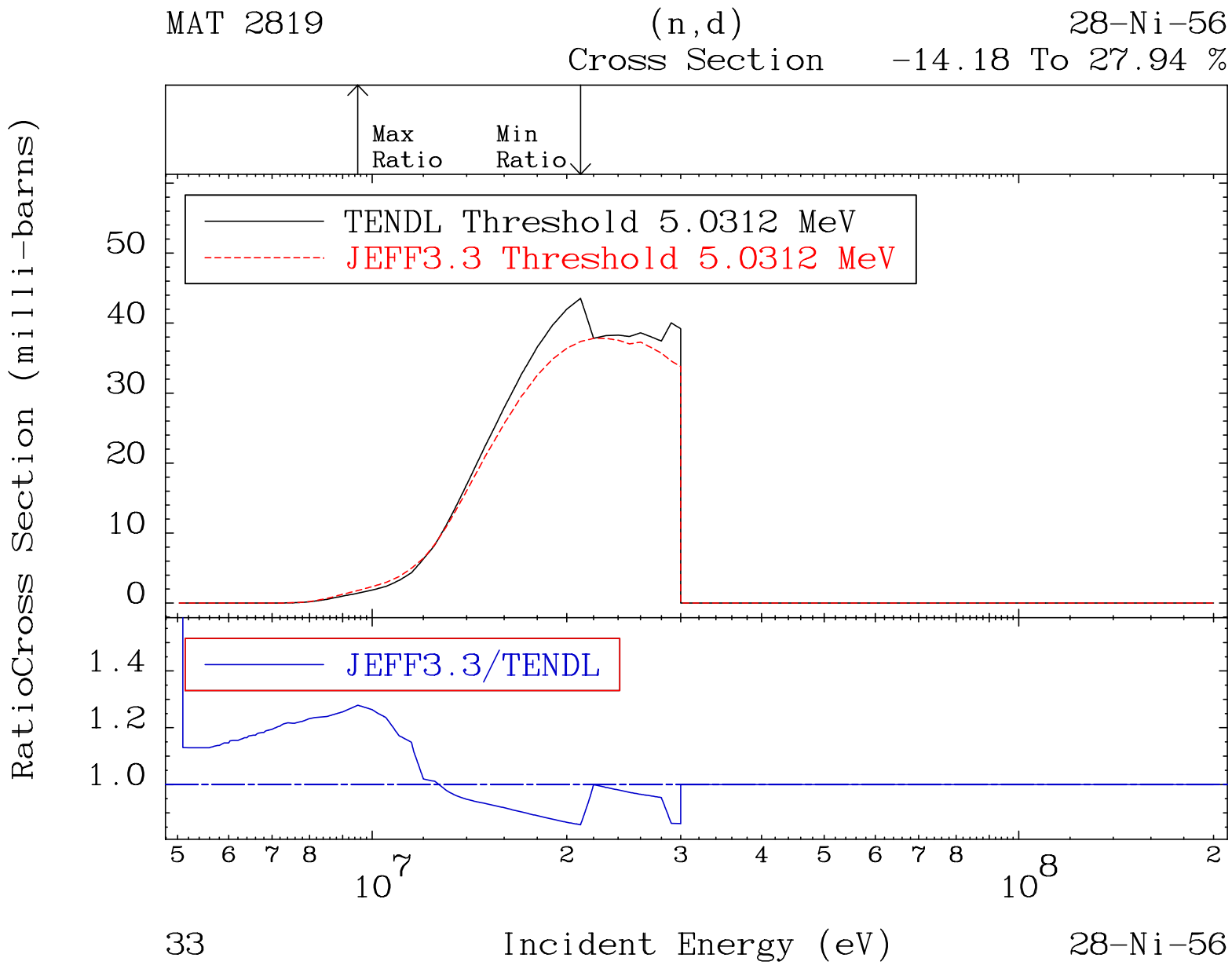

MAT 2819
MT= 65 (n,n') Level
28-Ni-56
Cross Section -100.0 To 49.14 %
Min Ratio
Max Ratio
TENDL Threshold 6.4405 MeV
JEFF3.3 Threshold 6.4405 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
28
28-Ni-56

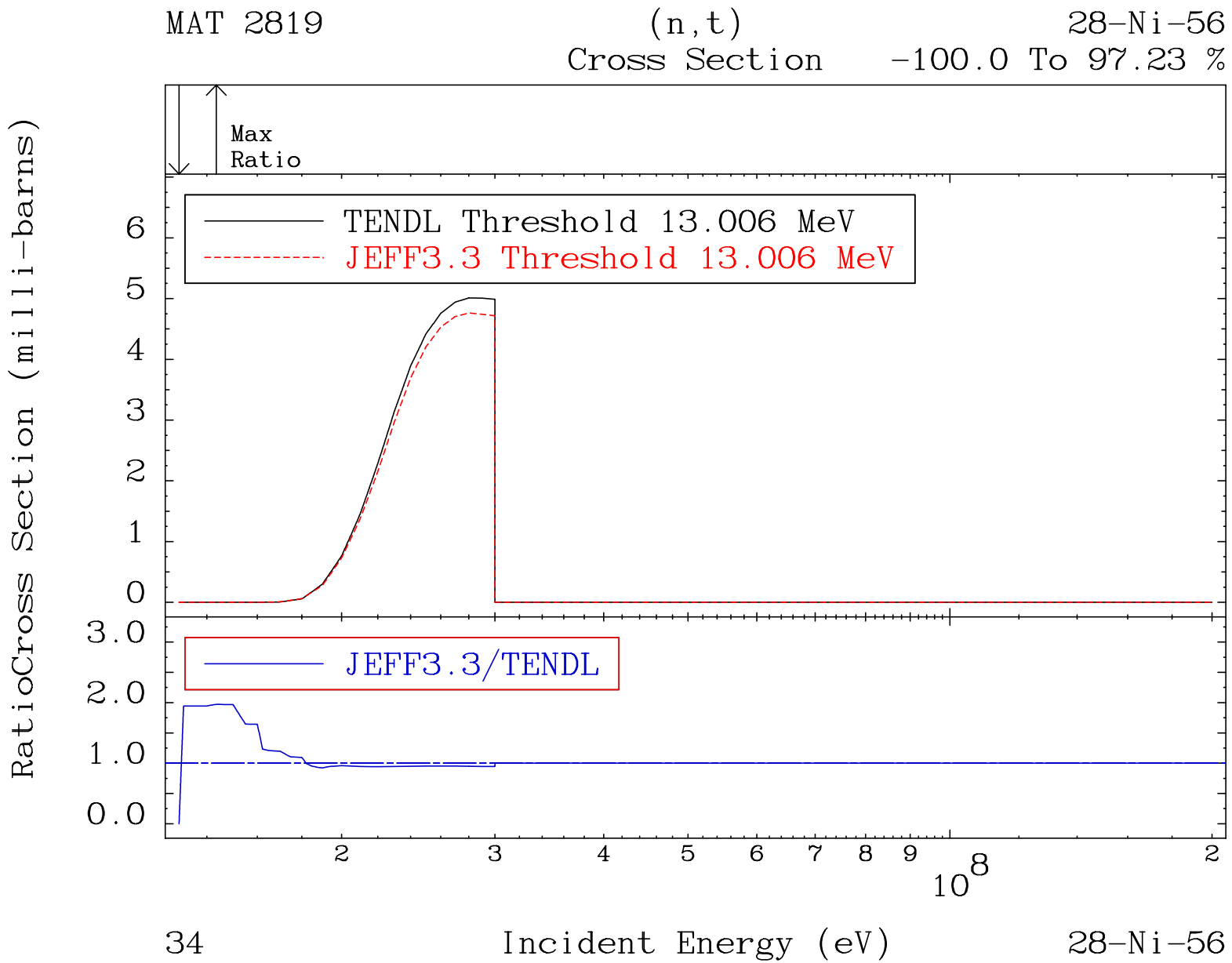

MAT 2819
MT= 66 (n,n') Level
28-Ni-56
Cross Section 0.000 To 18.65 %
Max Ratio
Min Ratio
TENDL Threshold 6.5213 MeV
JEFF3.3 Threshold 6.5213 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
1.2
1.1
1.0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
29
Incident Energy (eV)
28-Ni-56

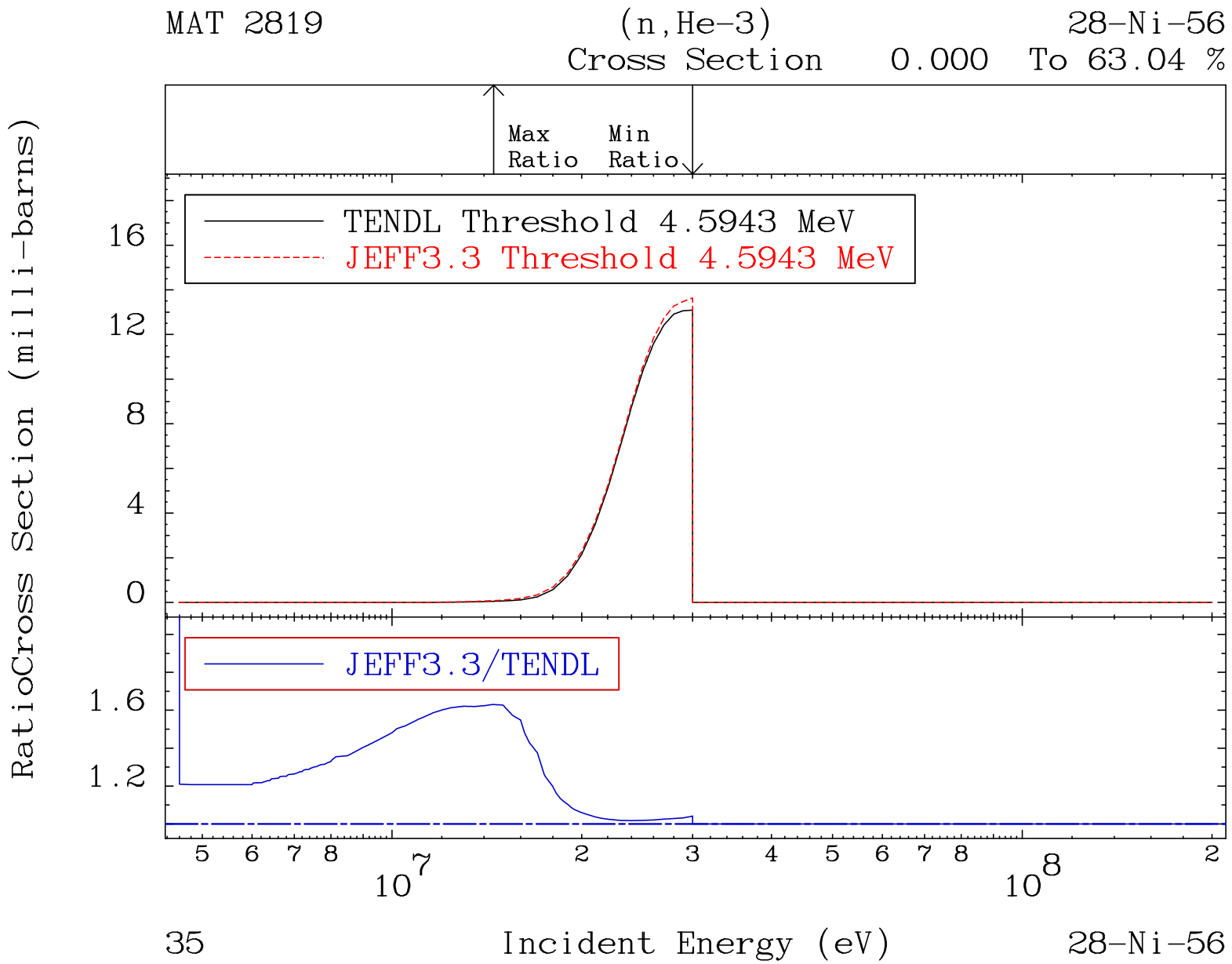

MAT 2819
(n,n') Continuum
Cross Section
28-Ni-56
-11.65 To 38.57 %
Max
Ratio
Min
Ratio
TENDL Threshold 6.5213 MeV
JEFF3.3 Threshold 6.5213 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
1.6
1.2
7 8 10^7 2 3 4 5 6 7 8 10^8 2
30
Incident Energy (eV)
28-Ni-56

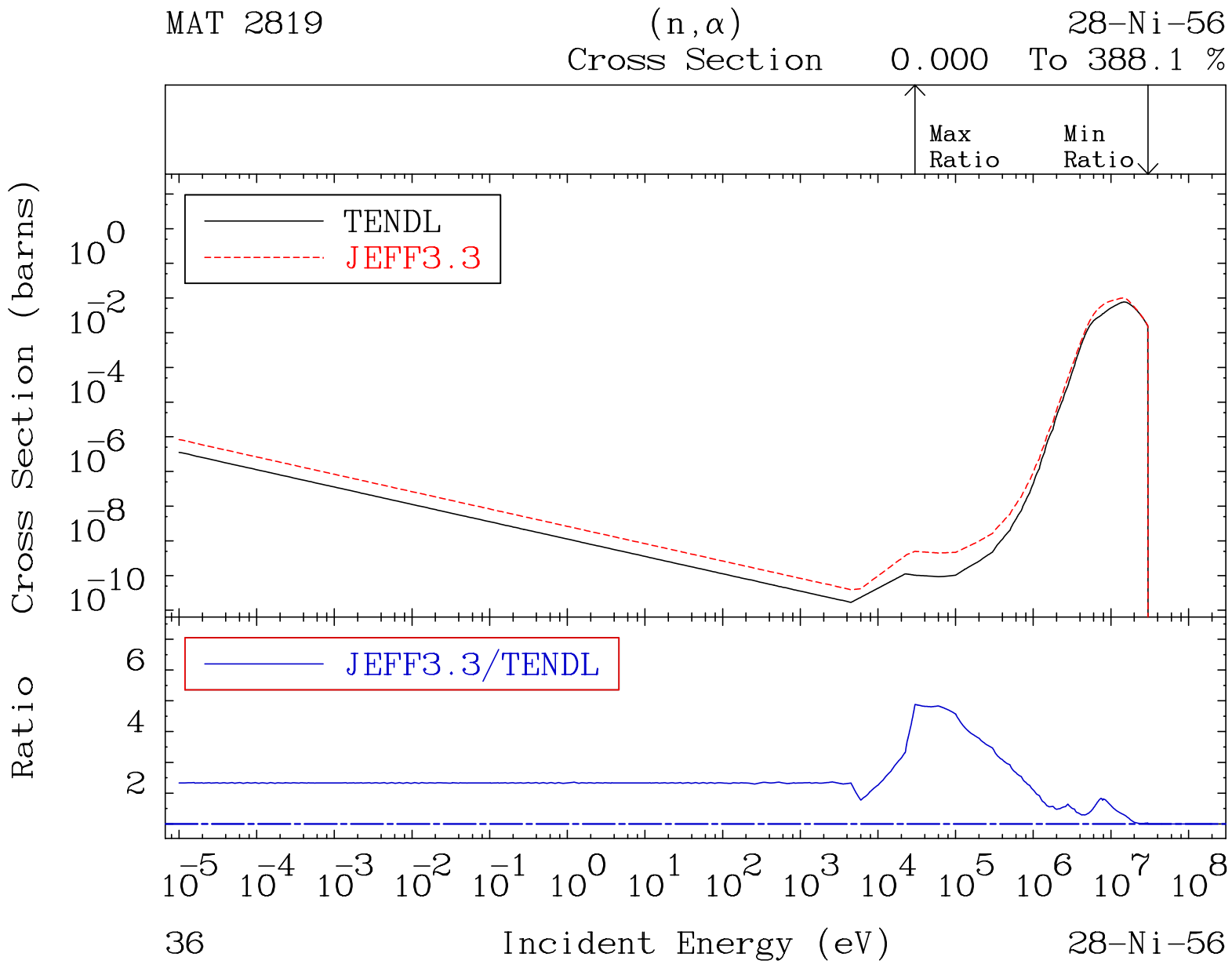

MAT 2819
(n,γ)
28-Ni-56
Cross Section
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
31
28-Ni-56

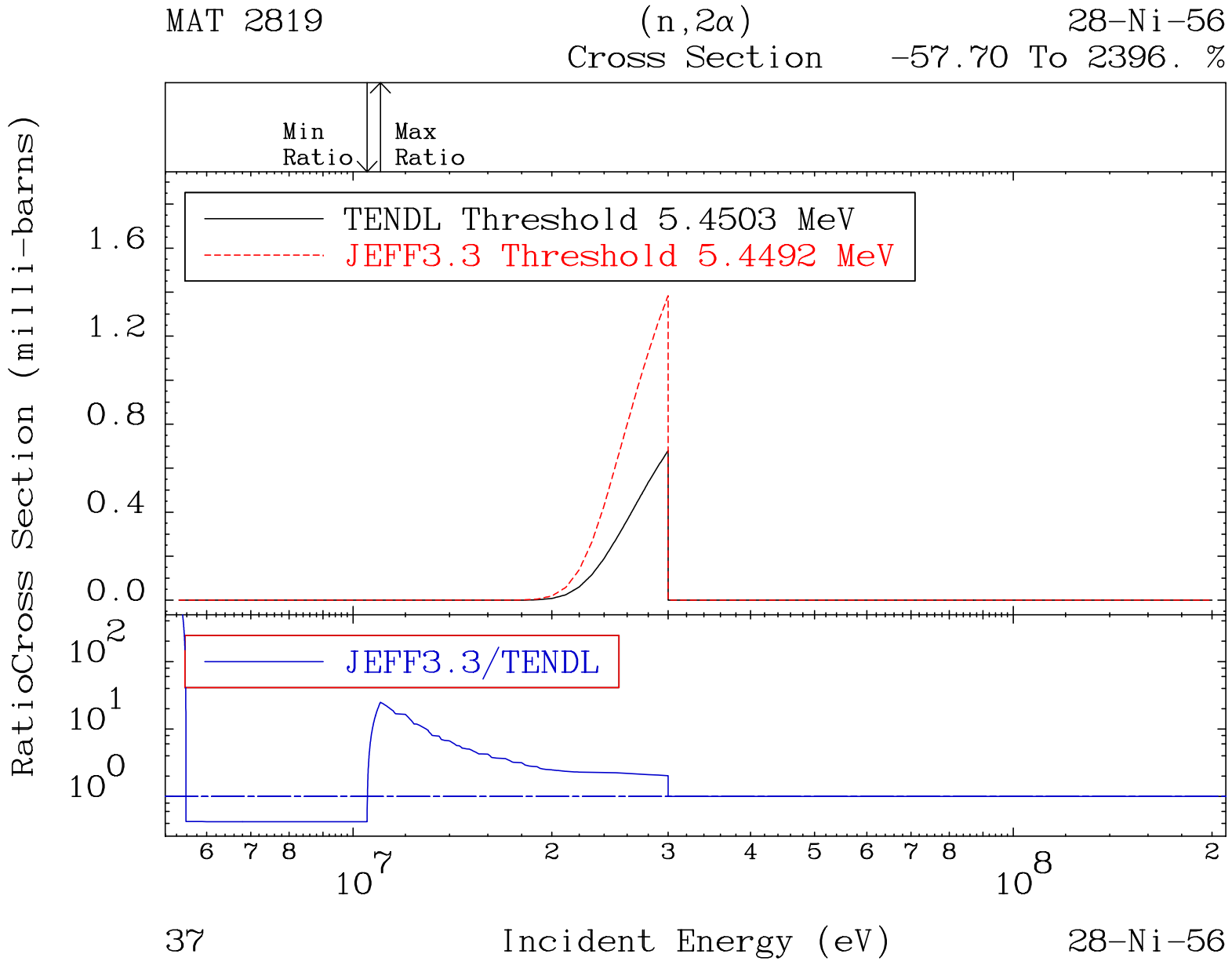

MAT 2819
(n,p)
Cross Section
28-Ni-56
-64.76 To 25.52 %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
32
28-Ni-56

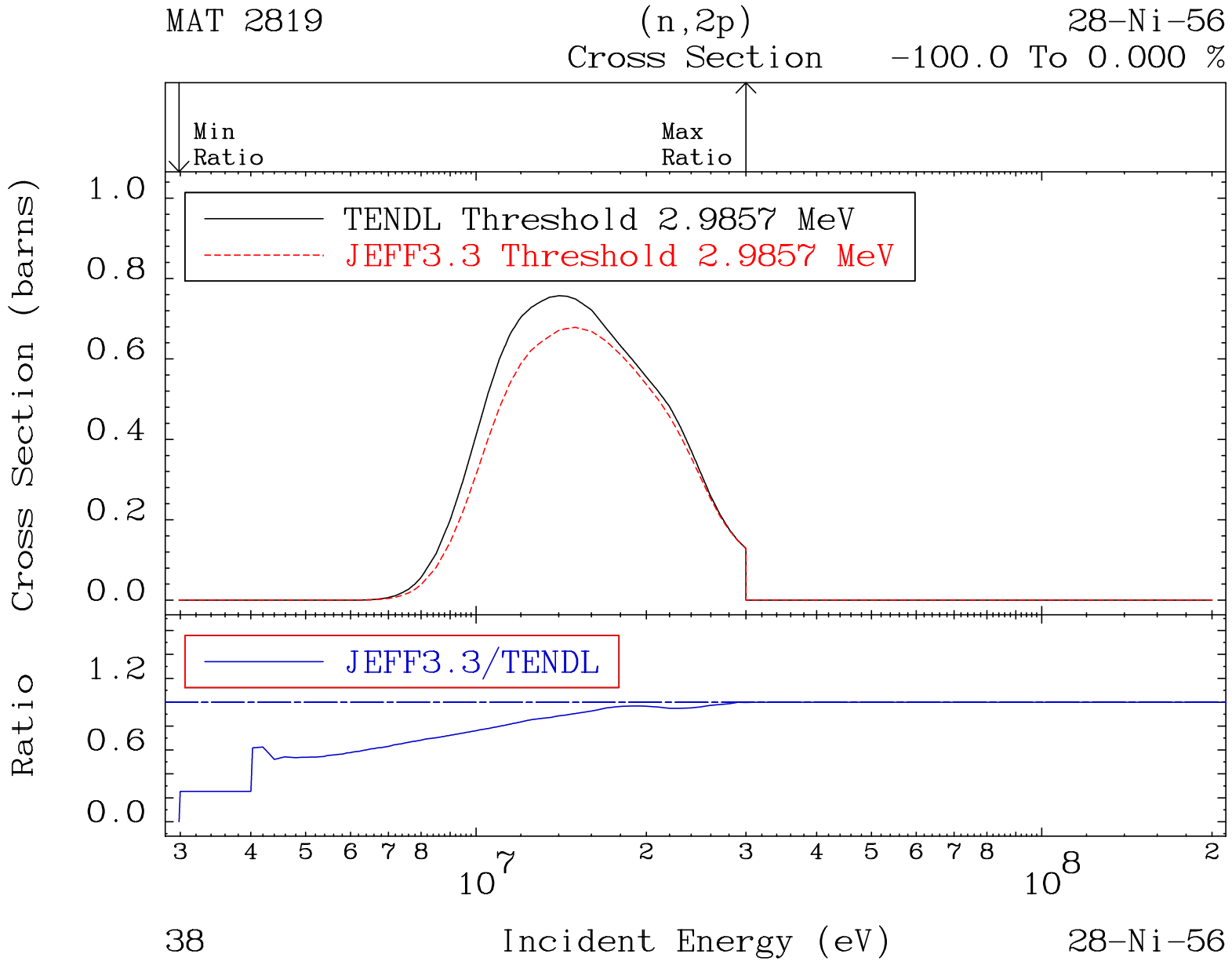

MAT 2819
(n,d)
28-Ni-56
Cross Section
-14.18 To 27.94 %
Max Ratio
Min Ratio
TENDL Threshold 5.0312 MeV
JEFF3.3 Threshold 5.0312 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
1.4
1.2
1.0
5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
33
Incident Energy (eV)
28-Ni-56

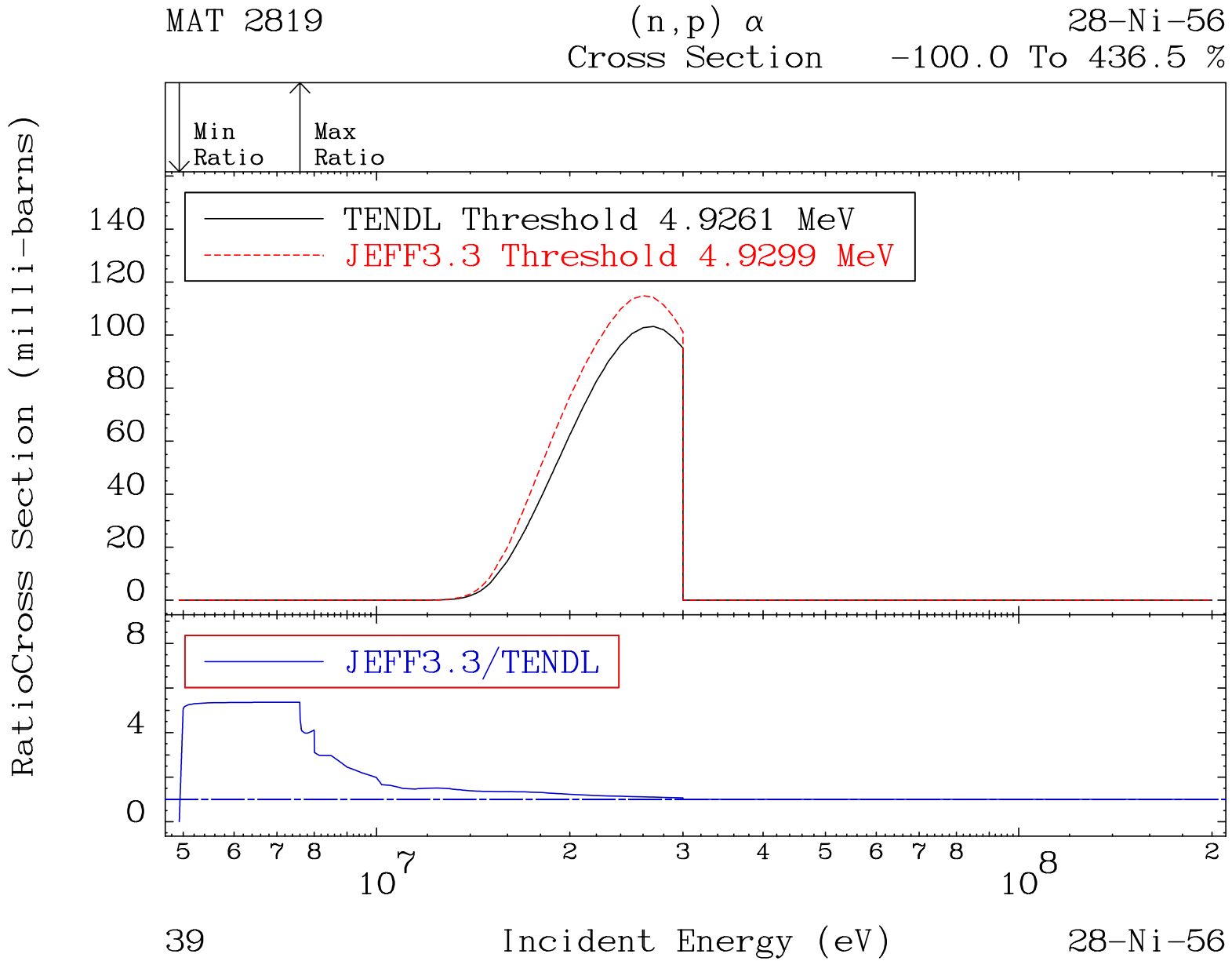

MAT 2819
(n,t)
Cross Section
28-Ni-56
-100.0 To 97.23 %
Max
Ratio
TENDL Threshold 13.006 MeV
JEFF3.3 Threshold 13.006 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
0
1
2
3
4
5
6
0.0
1.0
2.0
3.0
2
3
4
5
6
7
8
9
10^8
2
34
Incident Energy (eV)
28-Ni-56

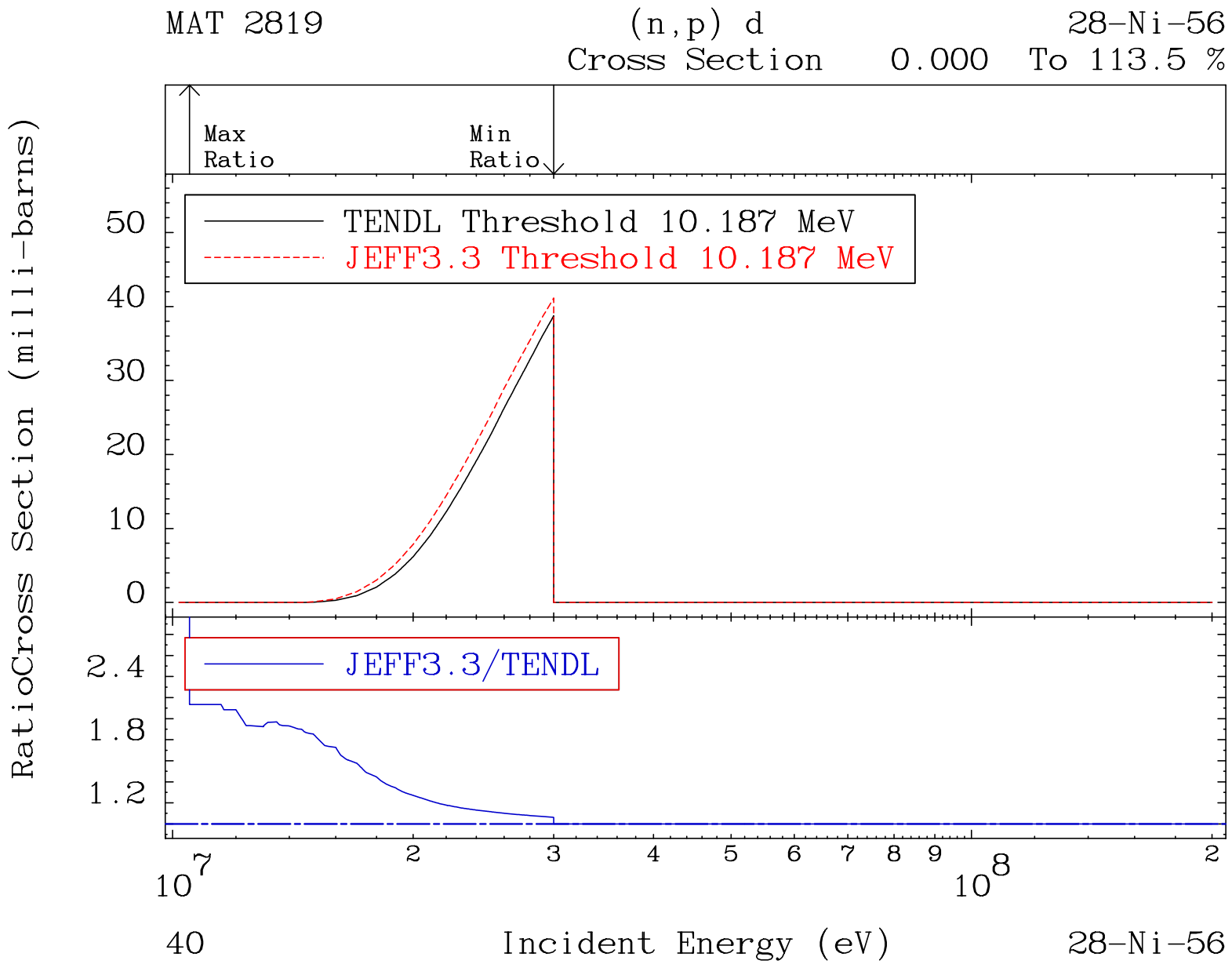

MAT 2819
(n,He-3)
28-Ni-56
Cross Section 0.000 To 63.04 %
Max Ratio
Min Ratio
TENDL Threshold 4.5943 MeV
JEFF3.3 Threshold 4.5943 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
1.6
1.2
5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
35
Incident Energy (eV)
28-Ni-56

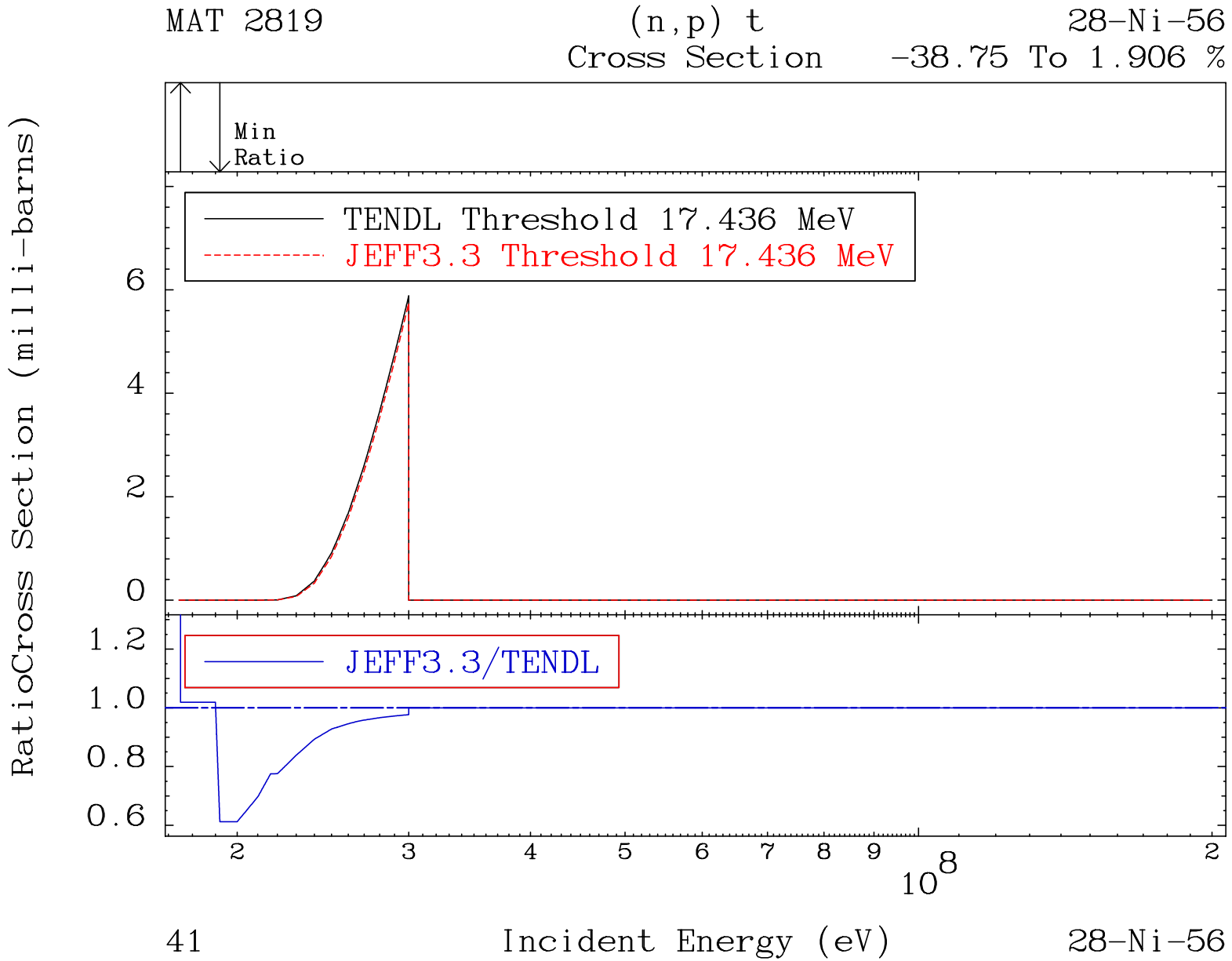

MAT 2819
(n,α)
28-Ni-56
Cross Section
0.000 To 388.1 %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
36
28-Ni-56

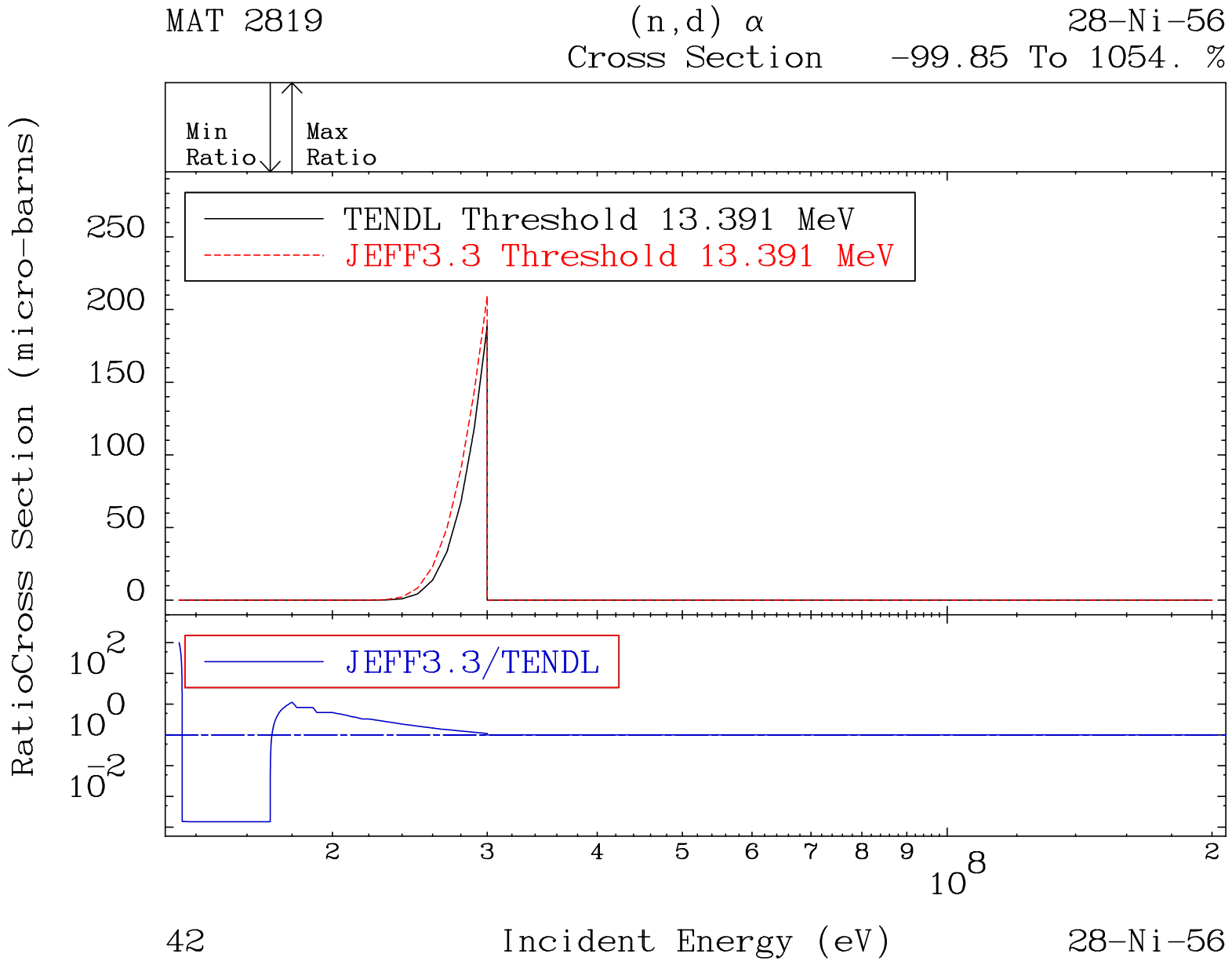

MAT 2819
(n,2α)
28-Ni-56
Cross Section
-57.70 To 2396. %
Min Ratio
Max Ratio
TENDL Threshold 5.4503 MeV
JEFF3.3 Threshold 5.4492 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
1.6
1.2
0.8
0.4
0.0
10^2
10^1
10^0
6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
37
Incident Energy (eV)
28-Ni-56

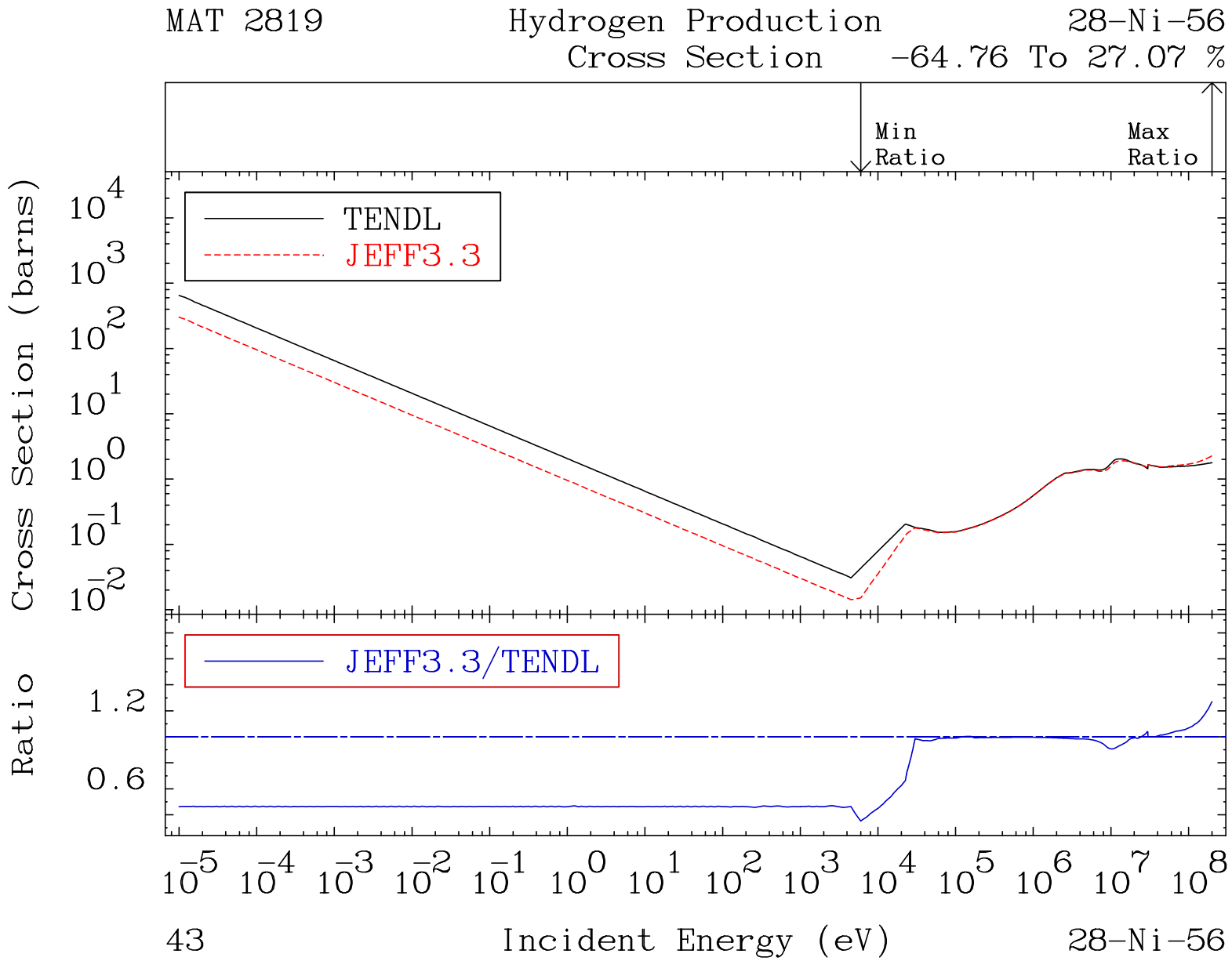

MAT 2819
(n,2p)
Cross Section
28-Ni-56
-100.0 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 2.9857 MeV
JEFF3.3 Threshold 2.9857 MeV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
1.0
0.8
0.6
0.4
0.2
0.0
1.2
0.6
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
38
Incident Energy (eV)
28-Ni-56

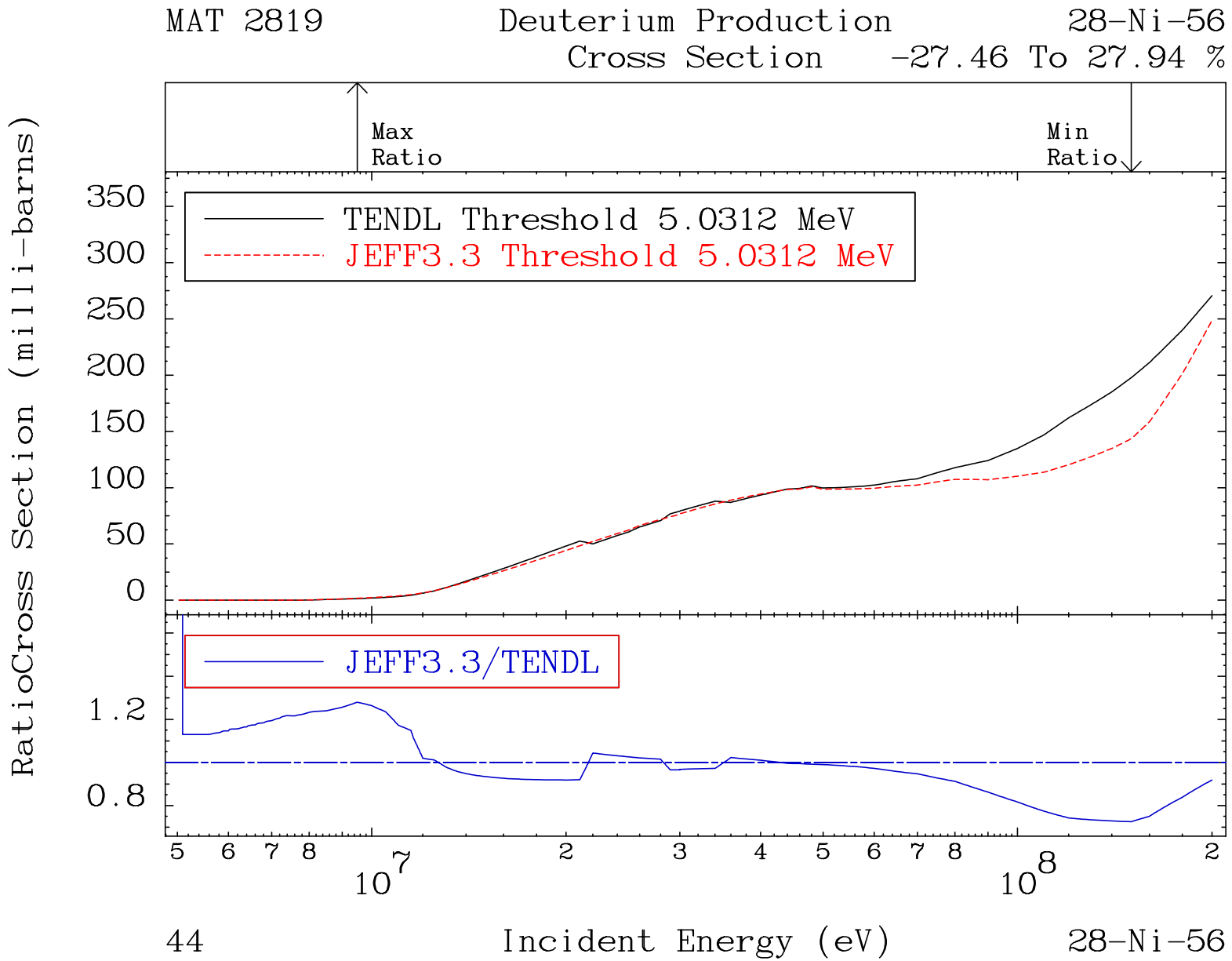

MAT 2819
(n,p) α
28-Ni-56
Cross Section
-100.0 To 436.5 %
Min Ratio
Max Ratio
TENDL Threshold 4.9261 MeV
JEFF3.3 Threshold 4.9299 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
8
4
0
5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
39
Incident Energy (eV)
28-Ni-56

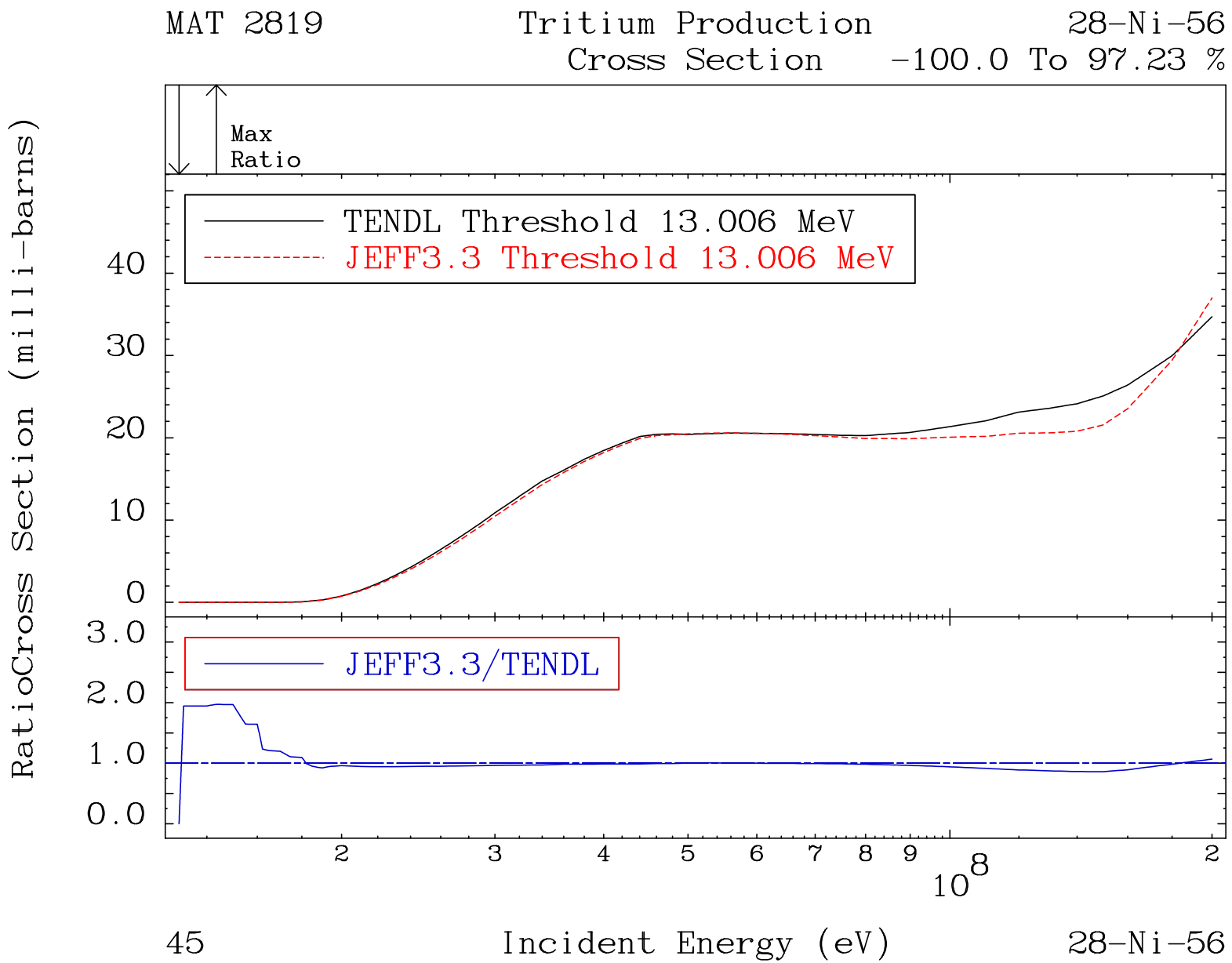

MAT 2819
(n,p) d
28-Ni-56
Cross Section 0.000 To 113.5 %
Max Ratio
Min Ratio
TENDL Threshold 10.187 MeV
JEFF3.3 Threshold 10.187 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
2.4
1.8
1.2
10^7
2
3
4
5
6
7
8
9
10^8
2
40
Incident Energy (eV)
28-Ni-56

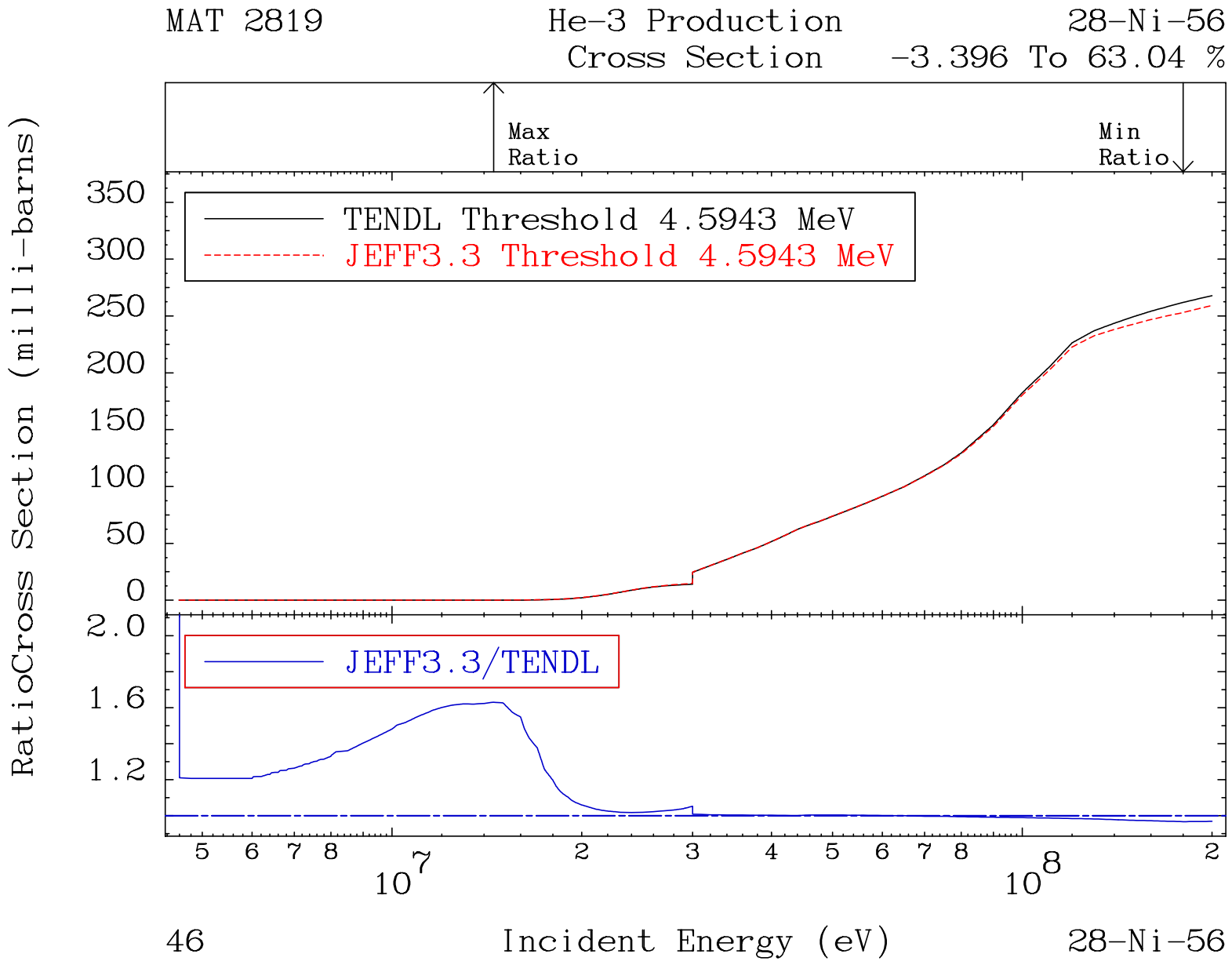

MAT 2819
(n,p) t
Cross Section
28-Ni-56
-38.75 To 1.906 %
Min
Ratio
TENDL Threshold 17.436 MeV
JEFF3.3 Threshold 17.436 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
6
4
2
0
1.2
1.0
0.8
0.6
2
3
4
5
6
7
8
9
10^8
2
41
Incident Energy (eV)
28-Ni-56

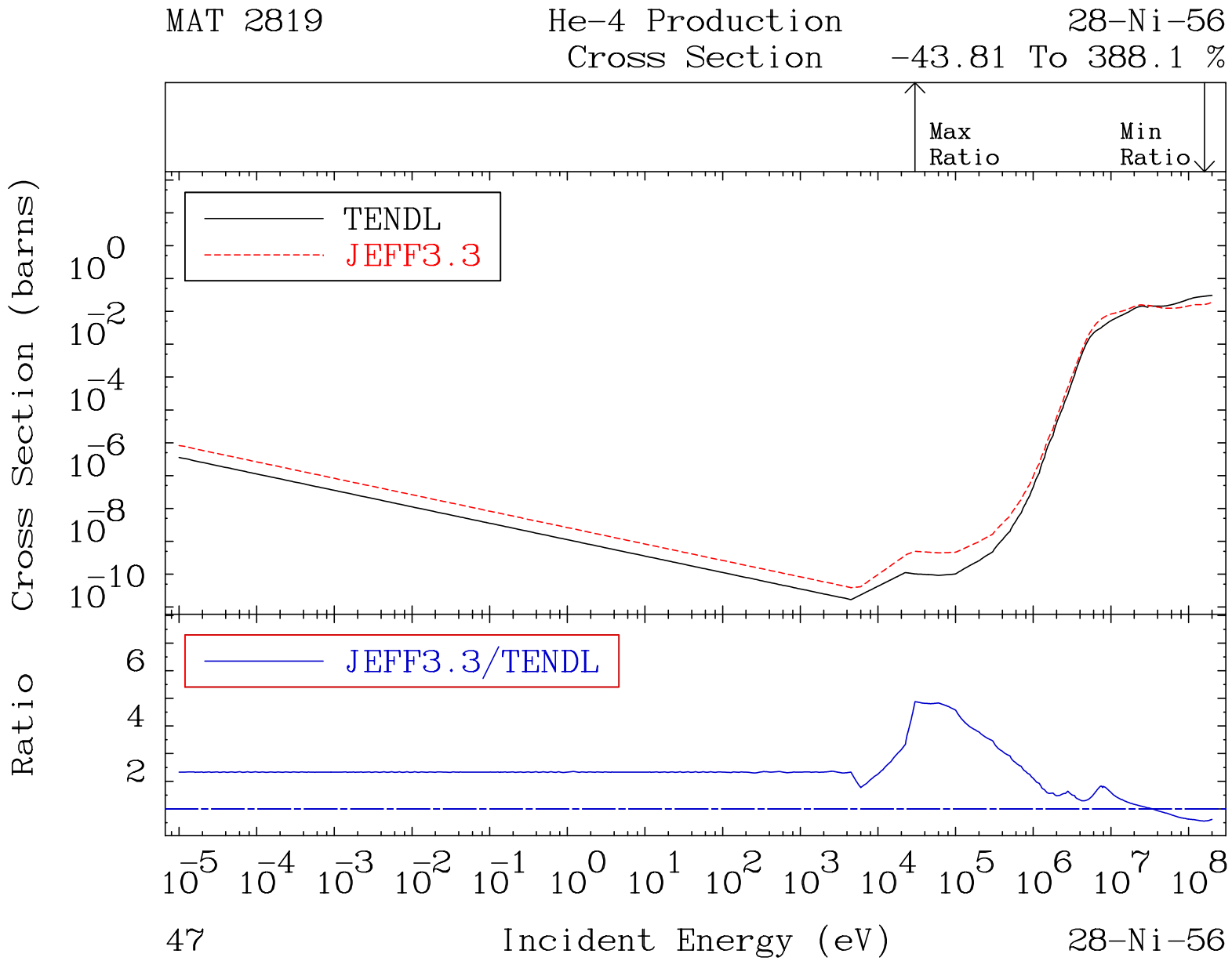

MAT 2819
(n,d) α
28-Ni-56
Cross Section
-99.85 To 1054. %
Min Ratio
Max Ratio
TENDL Threshold 13.391 MeV
JEFF3.3 Threshold 13.391 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
250
200
150
100
50
0
10^2
10^0
10^-2
2
3
4
5
6
7
8
9
10^8
2
42
Incident Energy (eV)
28-Ni-56

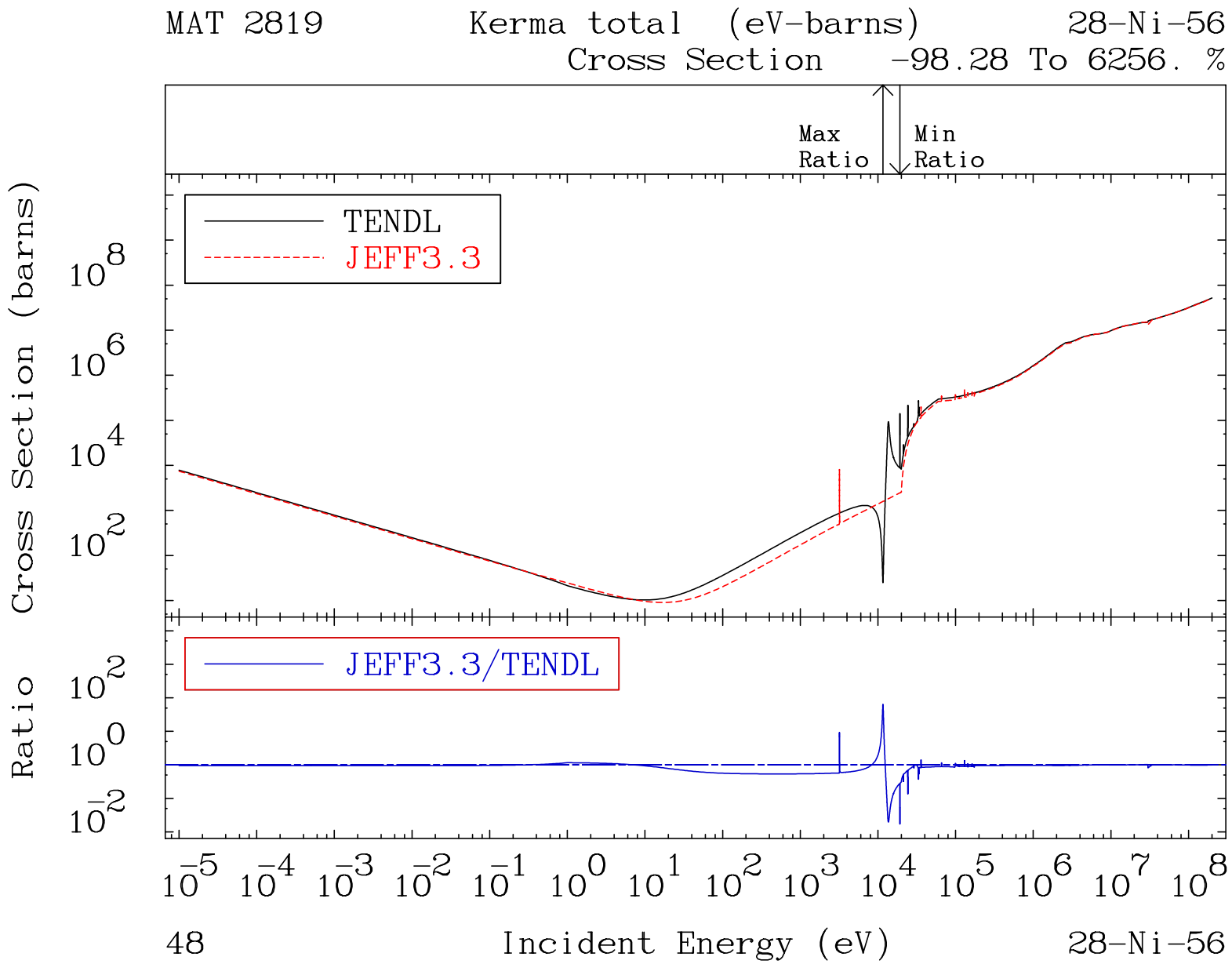

MAT 2819
Hydrogen Production
28-Ni-56
Cross Section
-64.76 To 27.07 %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
43
28-Ni-56

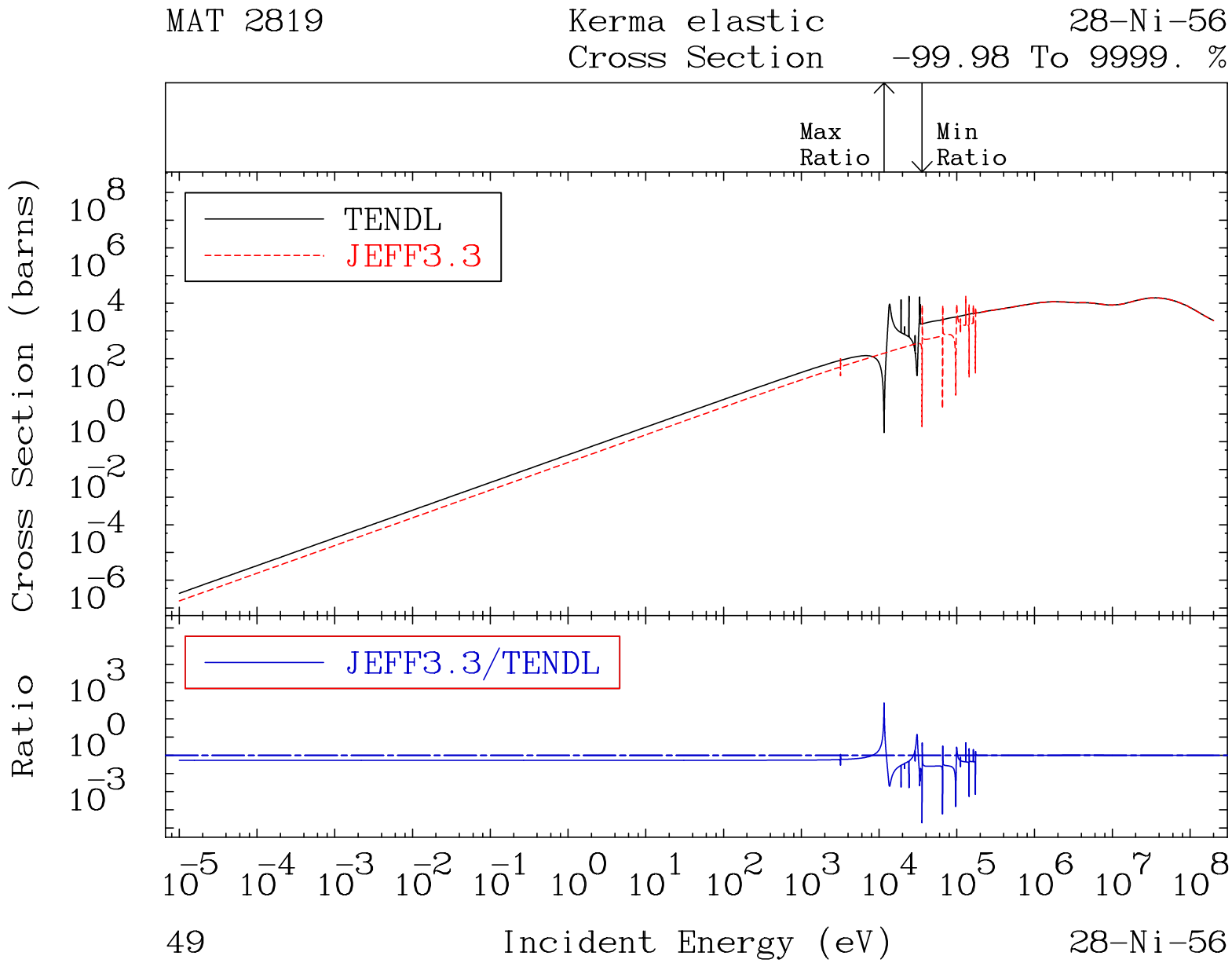

MAT 2819
Deuterium Production
28-Ni-56
Cross Section
-27.46 To 27.94 %
Max Ratio
Min Ratio
TENDL Threshold 5.0312 MeV
JEFF3.3 Threshold 5.0312 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
350
300
250
200
150
100
50
0
1.2
0.8
5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
44
Incident Energy (eV)
28-Ni-56

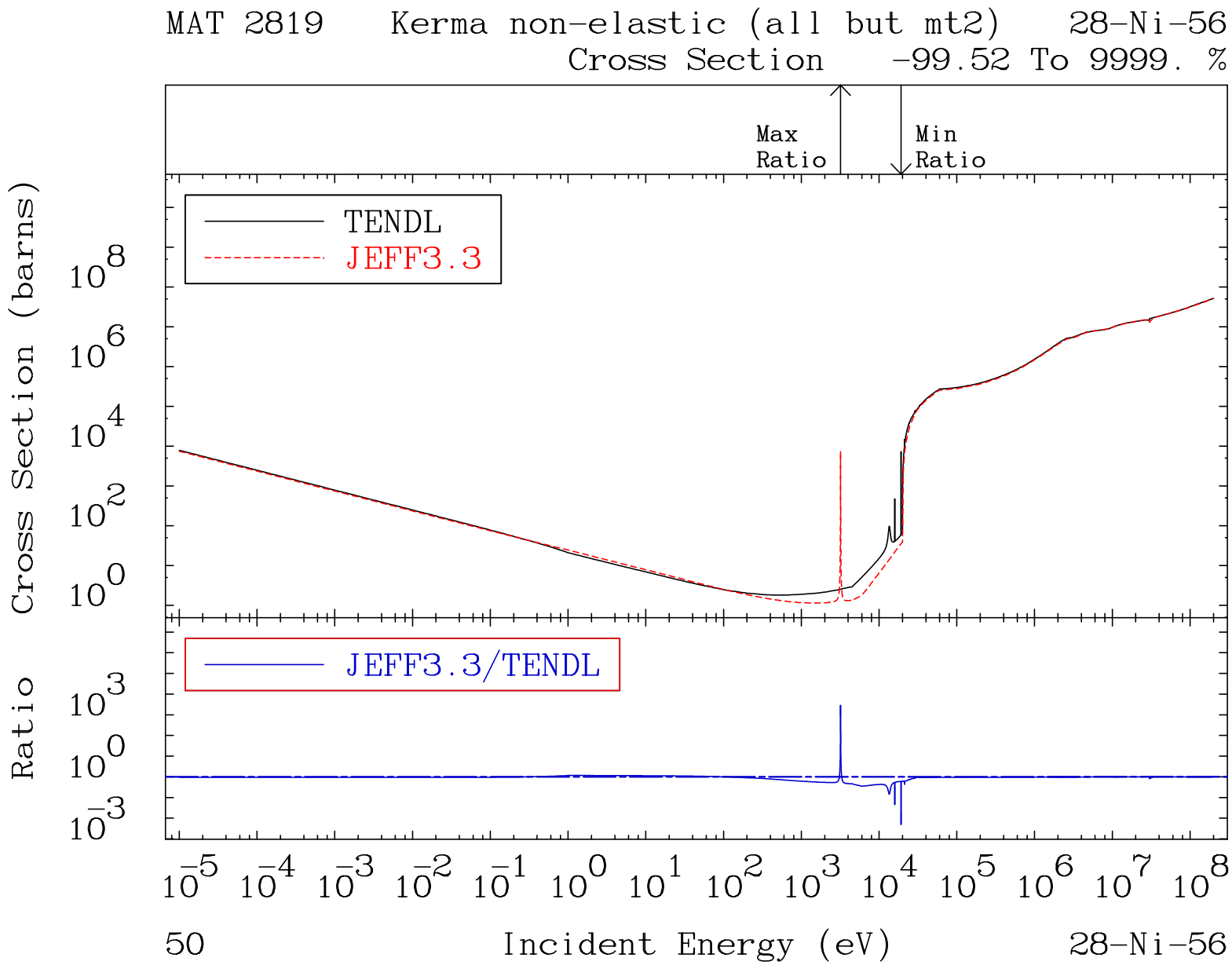

MAT 2819
Tritium Production
28-Ni-56
Cross Section
-100.0 To 97.23 %
Max
Ratio
TENDL Threshold 13.006 MeV
JEFF3.3 Threshold 13.006 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
3.0
2.0
1.0
0.0
2
3
4
5
6
7
8
9
10^8
2
45
Incident Energy (eV)
28-Ni-56

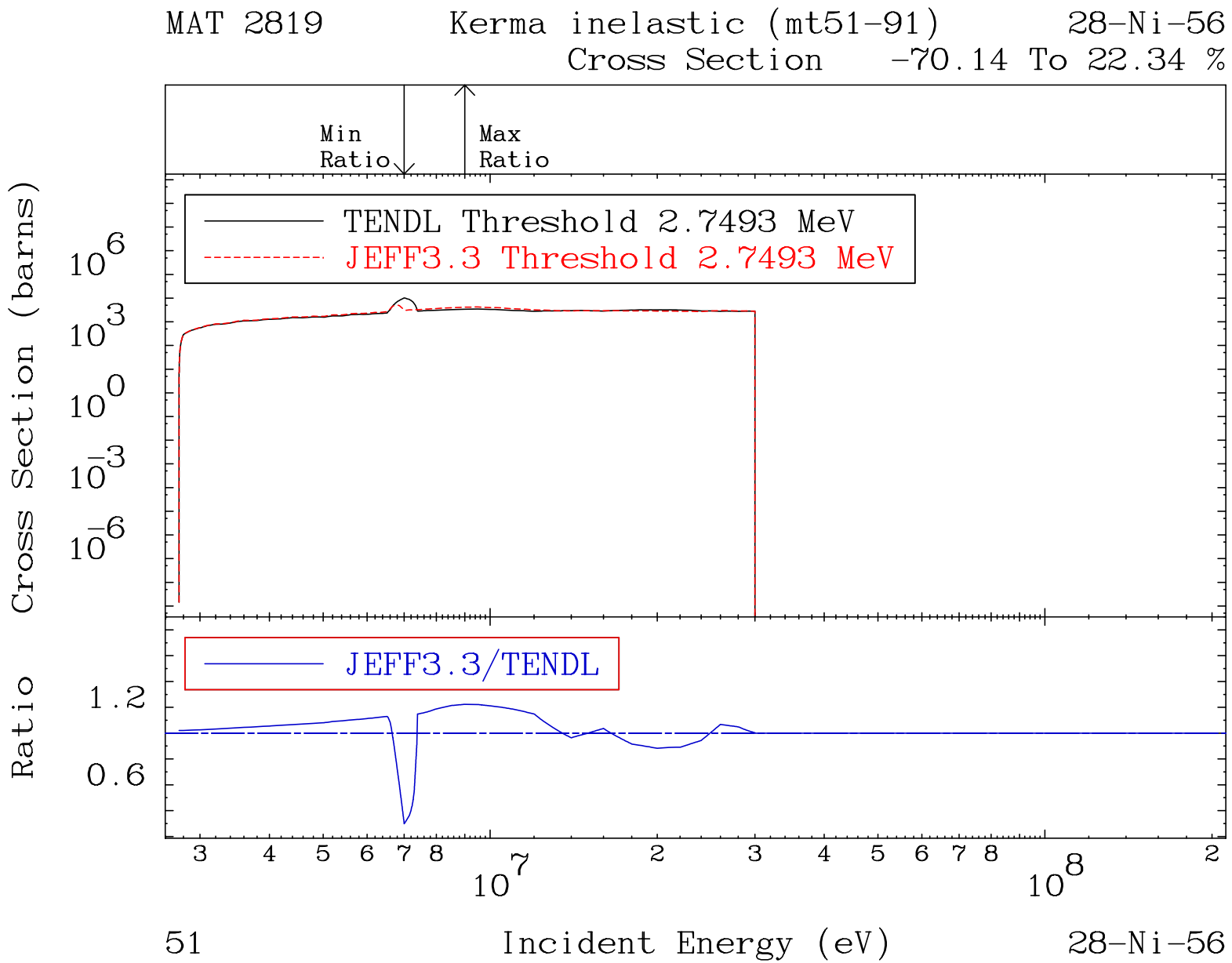

MAT 2819
He-3 Production
Cross Section
28-Ni-56
-3.396 To 63.04 %
Max
Ratio
Min
Ratio
TENDL Threshold 4.5943 MeV
JEFF3.3 Threshold 4.5943 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
350
300
250
200
150
100
50
0
2.0
1.6
1.2
5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
46
Incident Energy (eV)
28-Ni-56

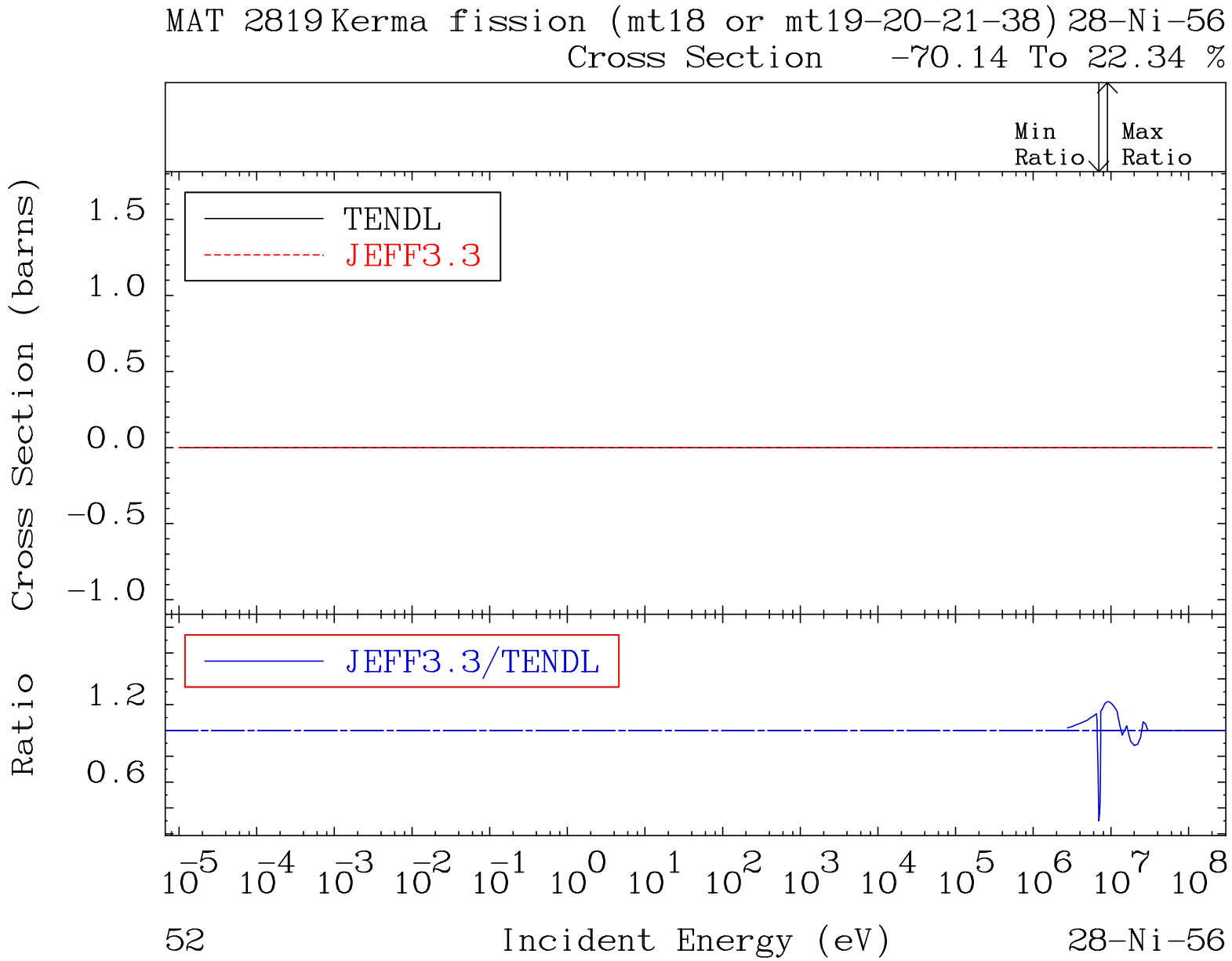

MAT 2819
He-4 Production
Cross Section
28-Ni-56
-43.81 To 388.1 %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
47
28-Ni-56

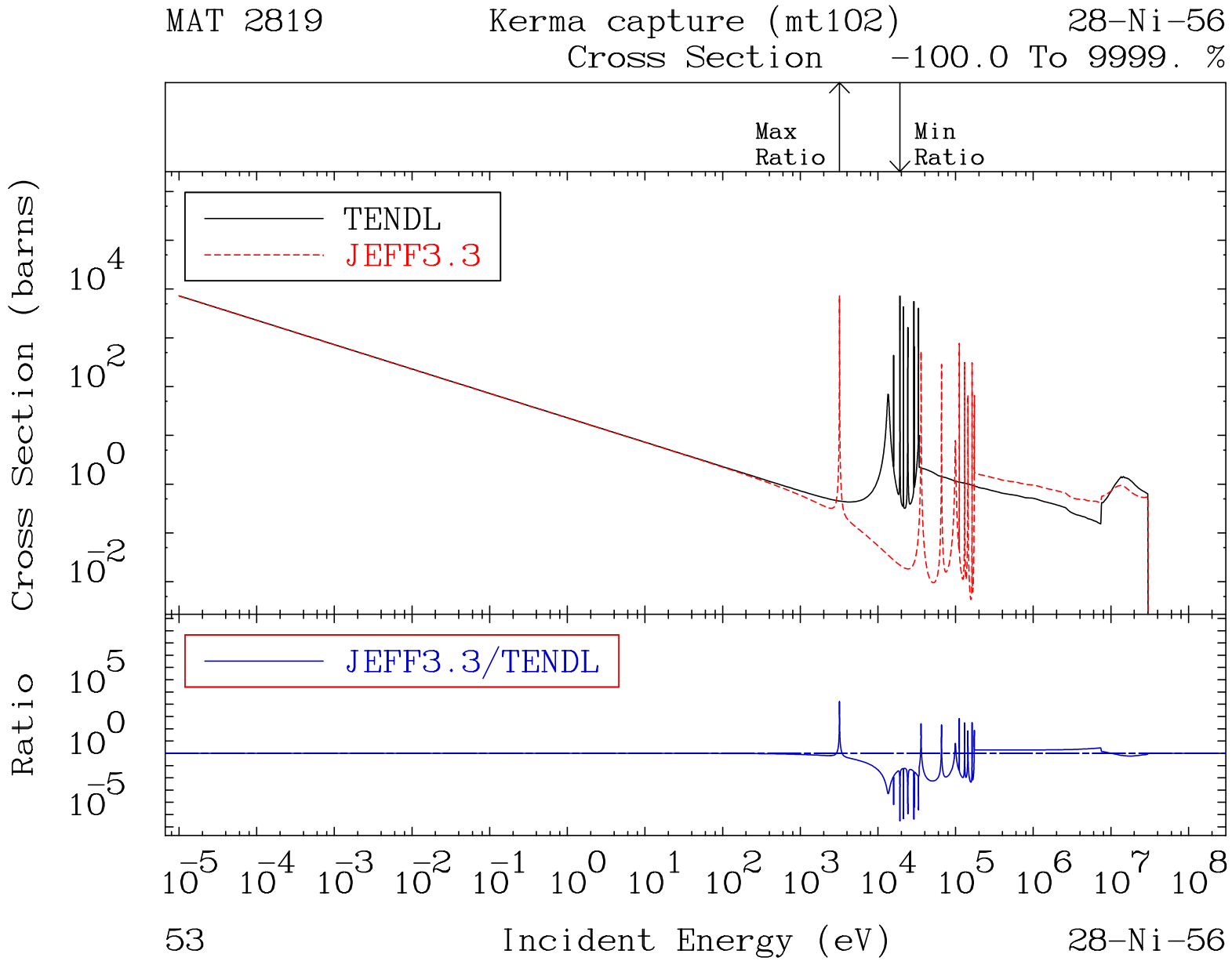

MAT 2819
Kerma total (eV-barns)
28-Ni-56
Cross Section -98.28 To 6256. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
48
28-Ni-56

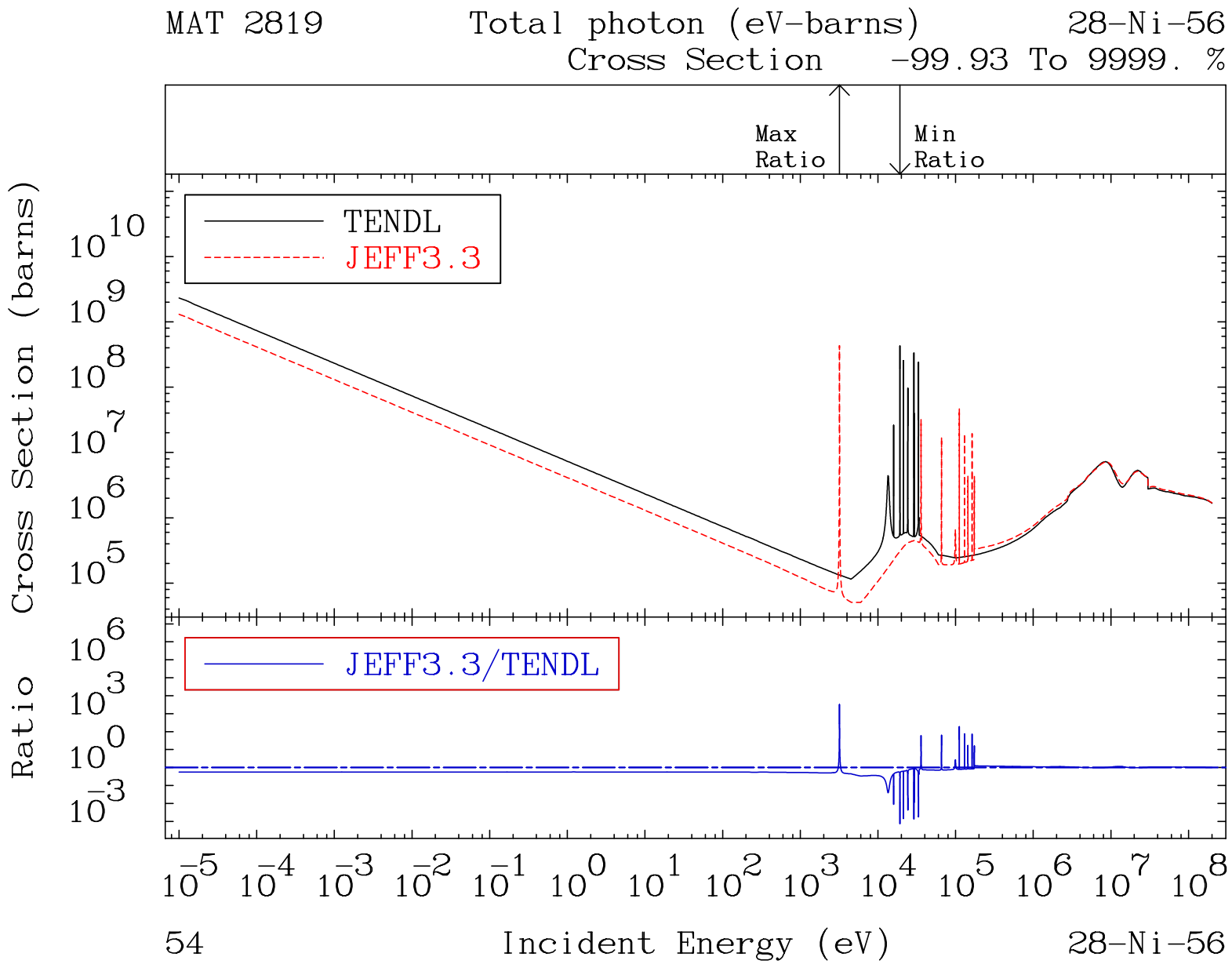

MAT 2819
Kerma elastic
Cross Section
28-Ni-56
-99.98 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
49
28-Ni-56

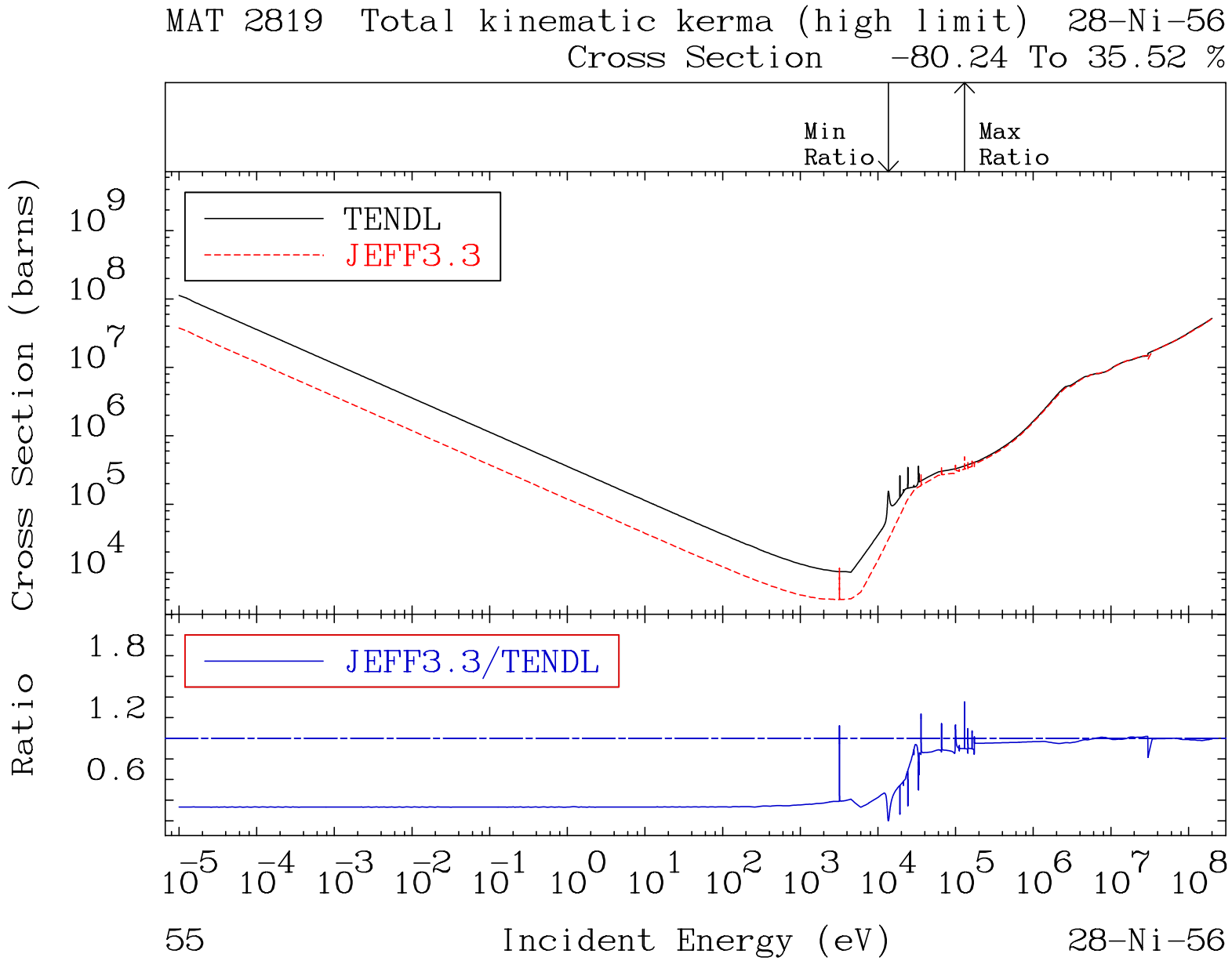

MAT 2819 Kerma non-elastic (all but mt2) 28-Ni-56
Cross Section -99.52 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
50
28-Ni-56

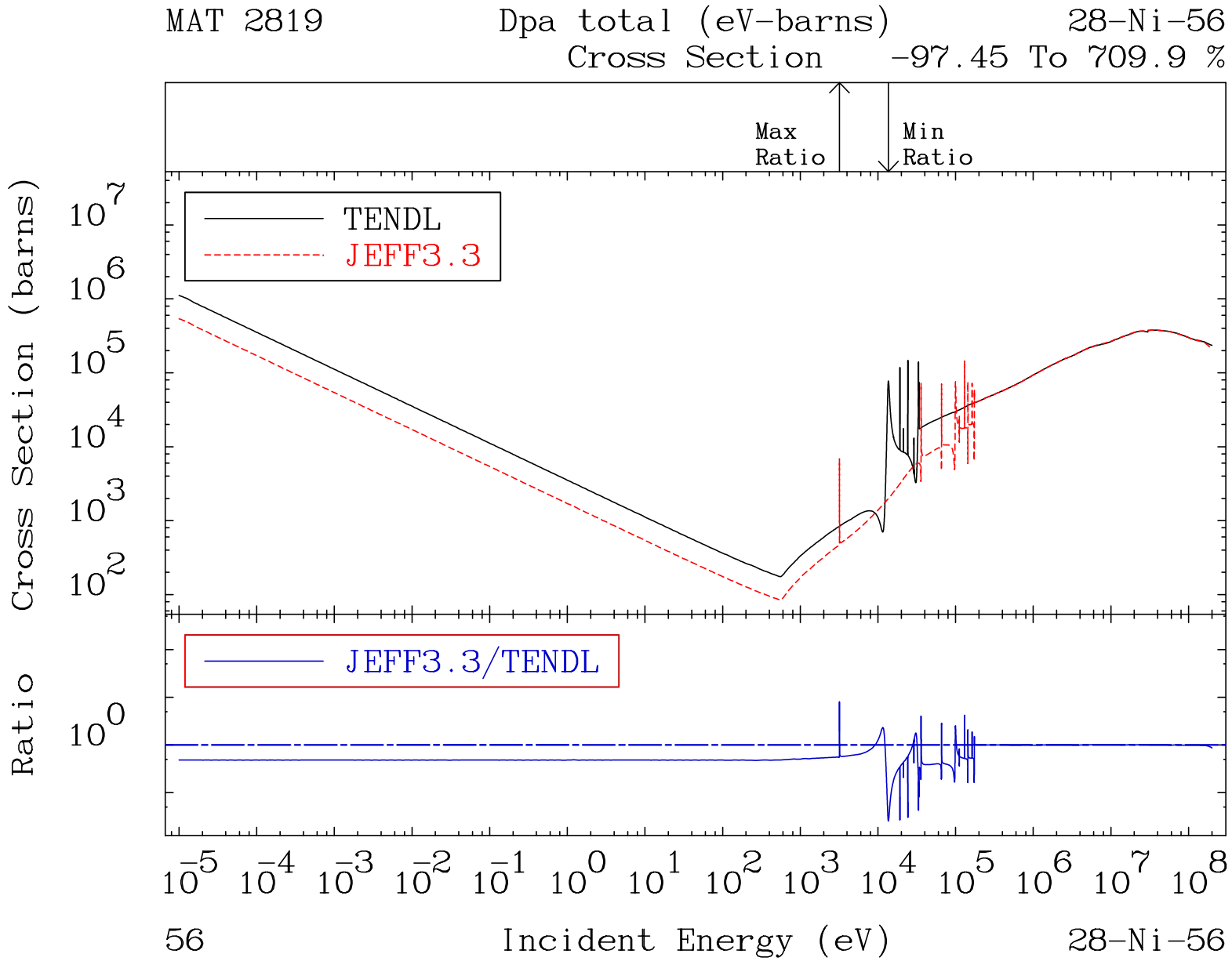

MAT 2819
Kerma inelastic (mt51-91)
28-Ni-56
Cross Section -70.14 To 22.34 %
Min Ratio
Max Ratio
TENDL Threshold 2.7493 MeV
JEFF3.3 Threshold 2.7493 MeV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
51
28-Ni-56

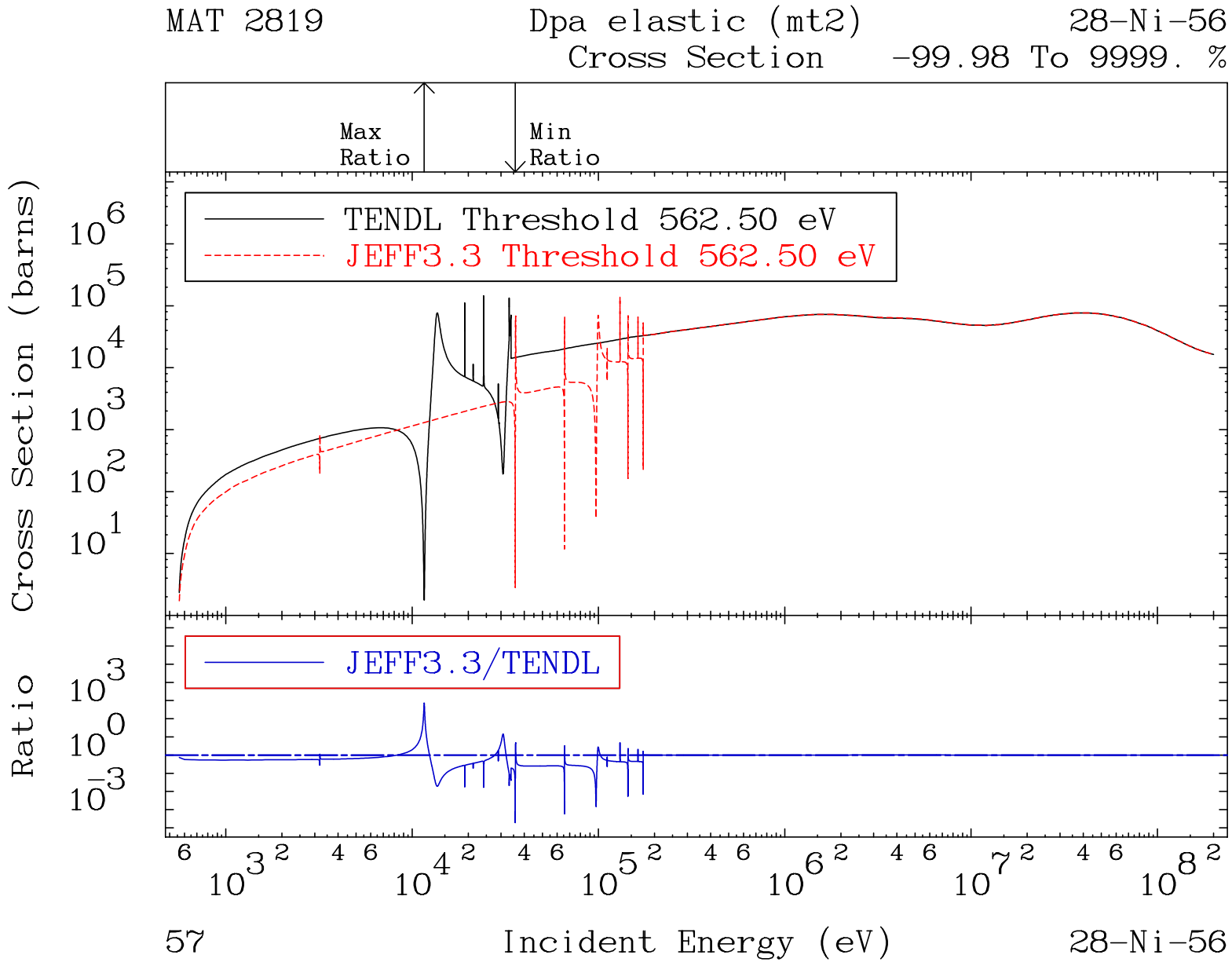

MAT 2819 Kerma fission (mt18 or mt19-20-21-38) 28-Ni-56
Cross Section -70.14 To 22.34 %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
1.2
0.6
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
52
Incident Energy (eV)
28-Ni-56

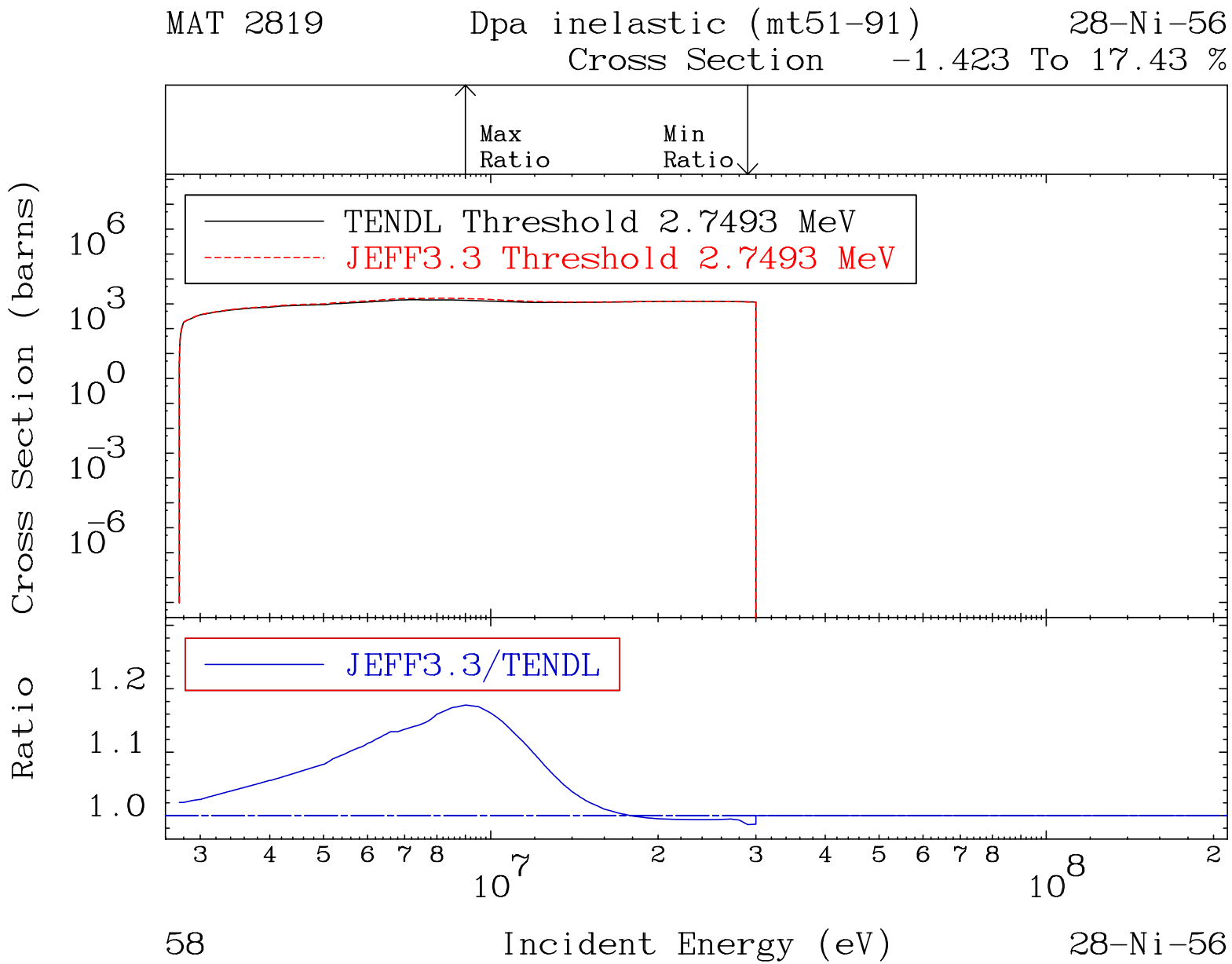

MAT 2819
Kerma capture (mt102)
28-Ni-56
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
53
28-Ni-56

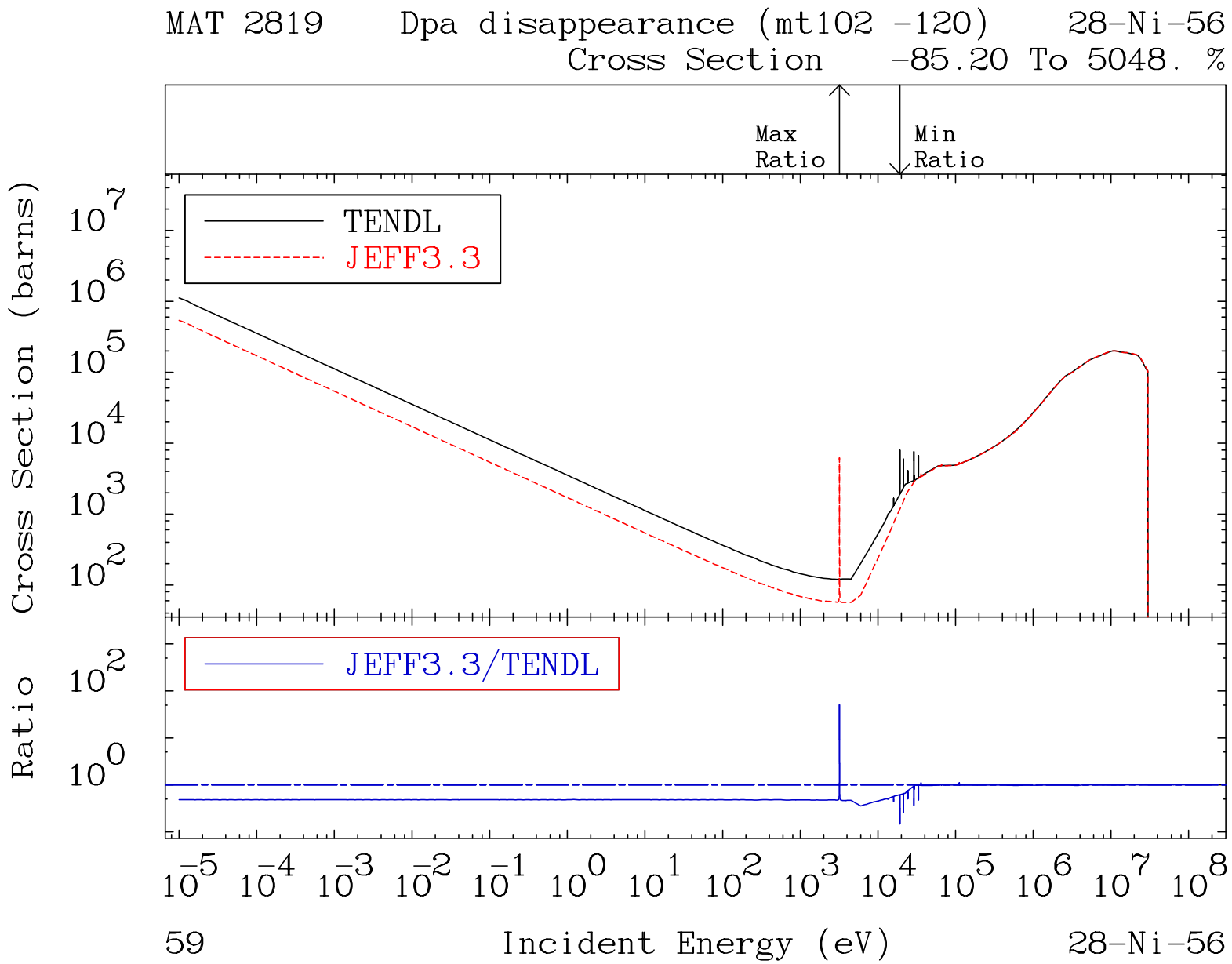

MAT 2819
Total photon (eV-barns)
28-Ni-56
Cross Section -99.93 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
54
28-Ni-56

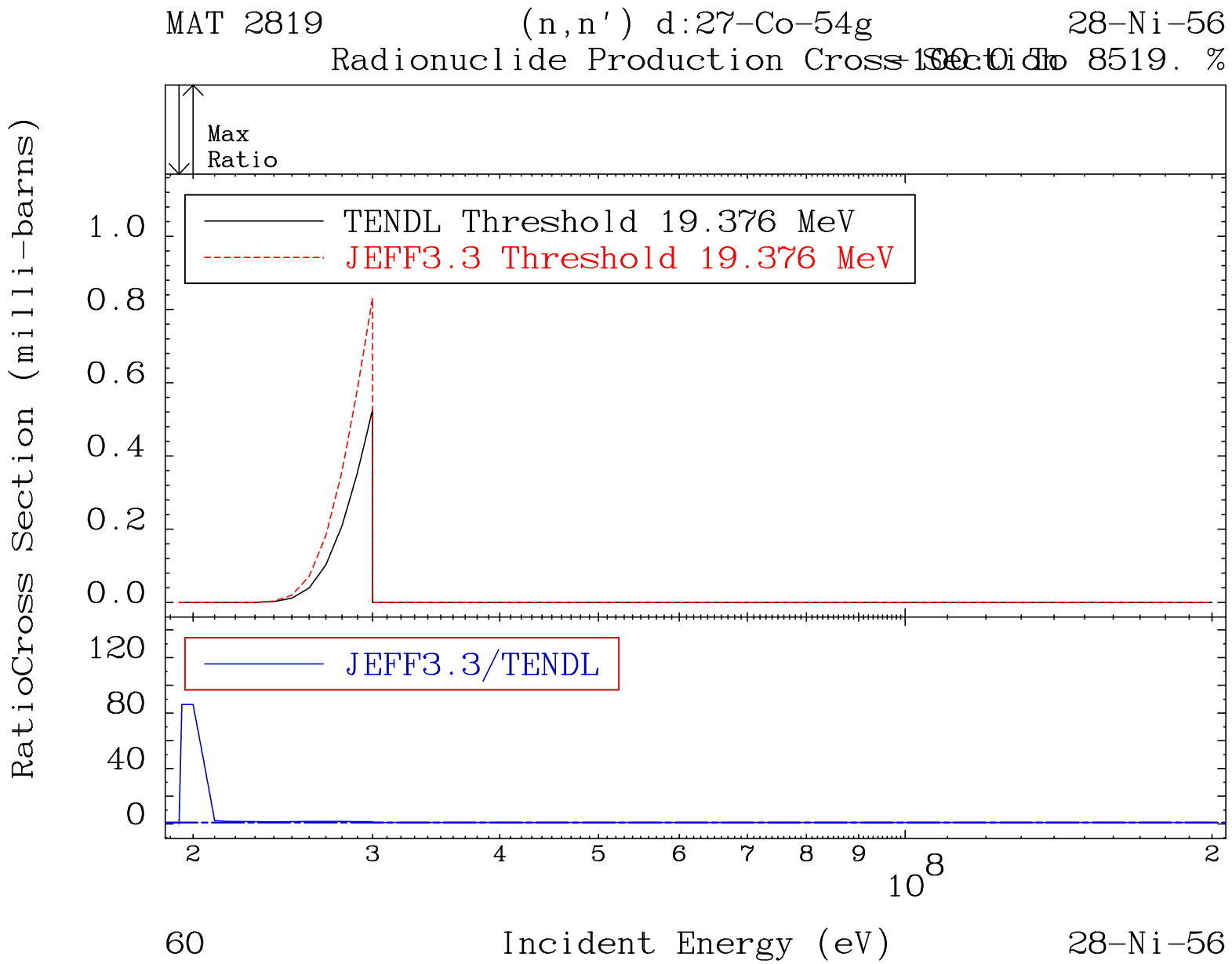

MAT 2819 Total kinematic kerma (high limit) 28-Ni-56
Cross Section -80.24 To 35.52 %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
55
28-Ni-56

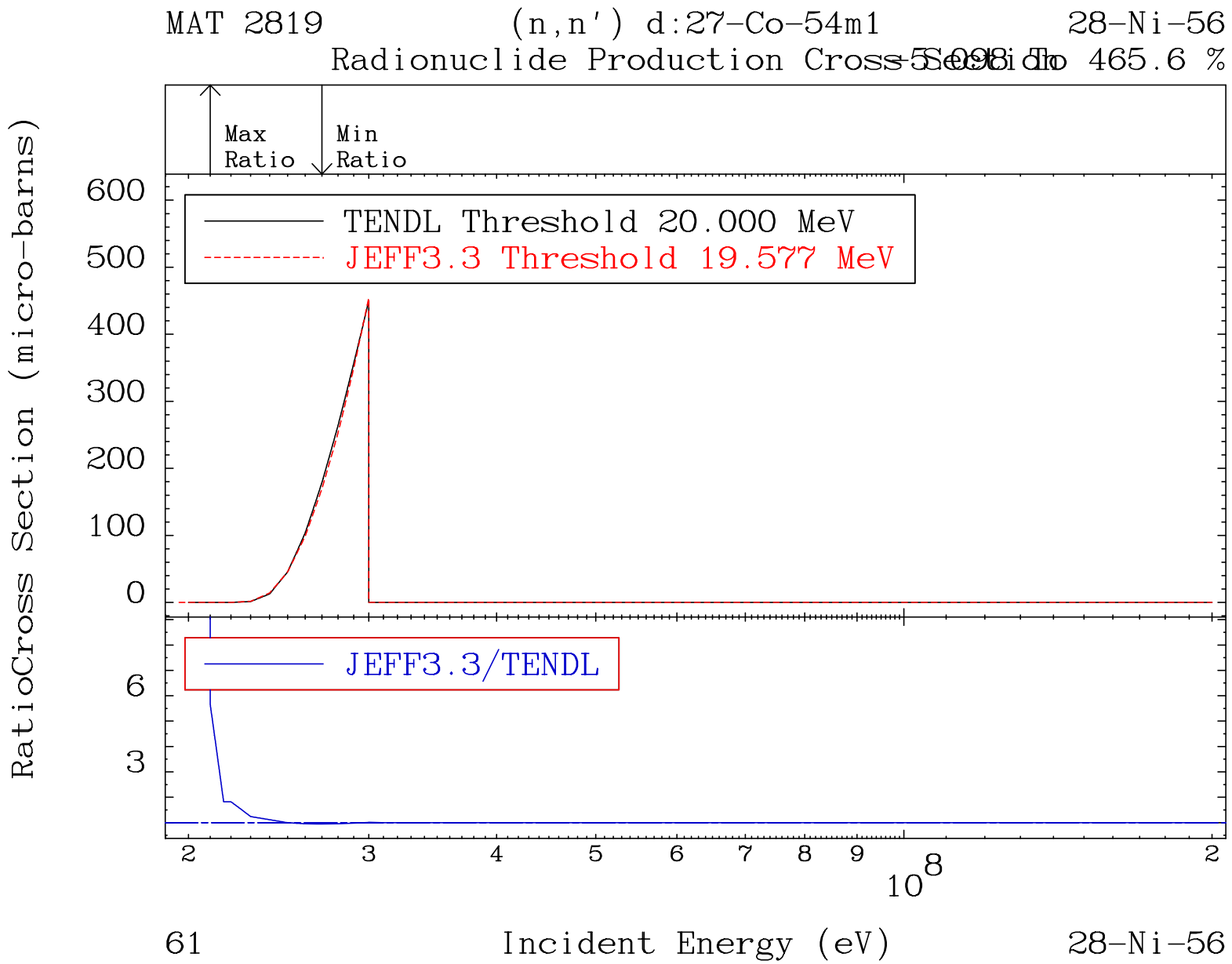

MAT 2819
Dpa total (eV-barns)
28-Ni-56
Cross Section -97.45 To 709.9 %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
56
28-Ni-56

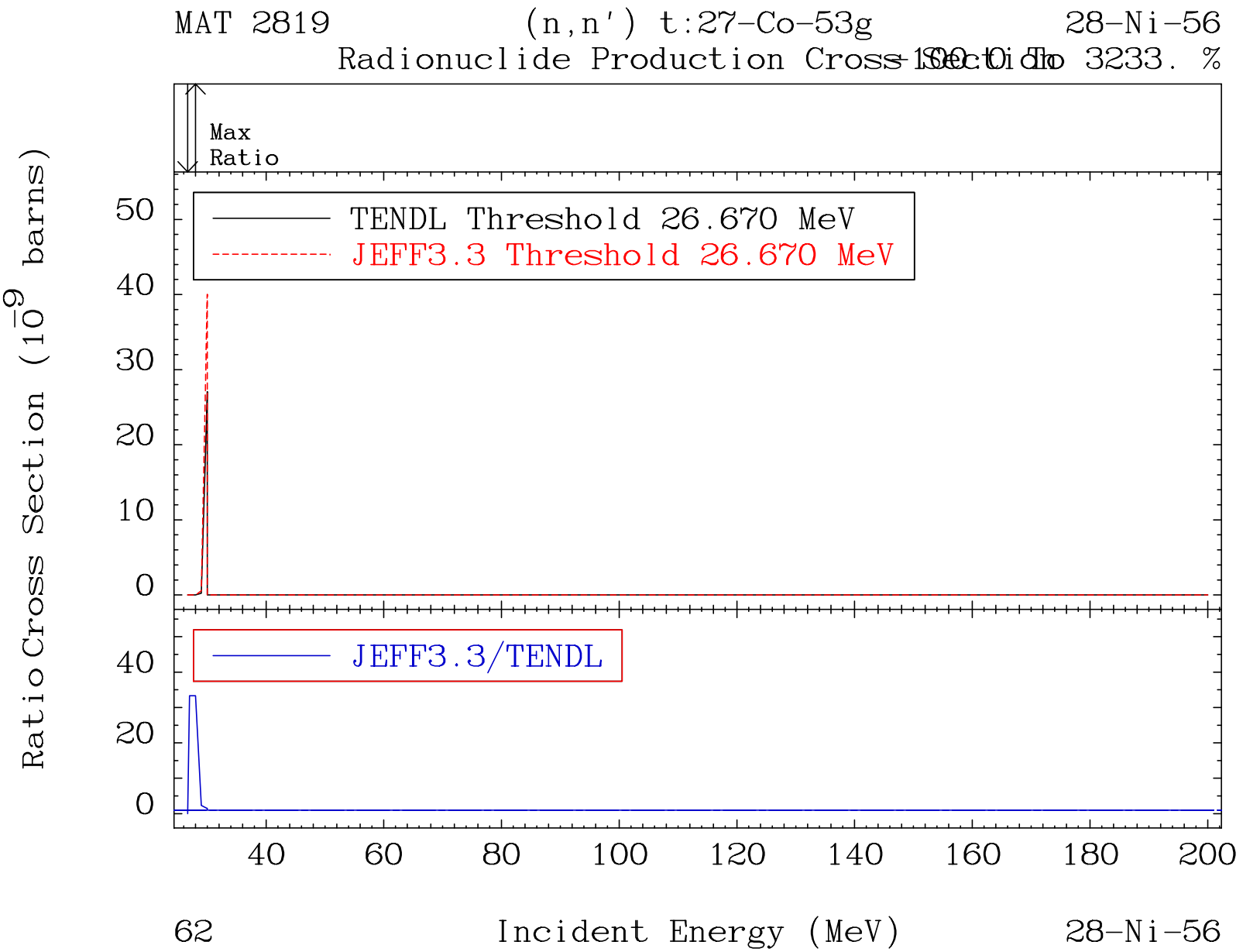

MAT 2819
Dpa elastic (mt2)
Cross Section
28-Ni-56
-99.98 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 562.50 eV
JEFF3.3 Threshold 562.50 eV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
57
28-Ni-56

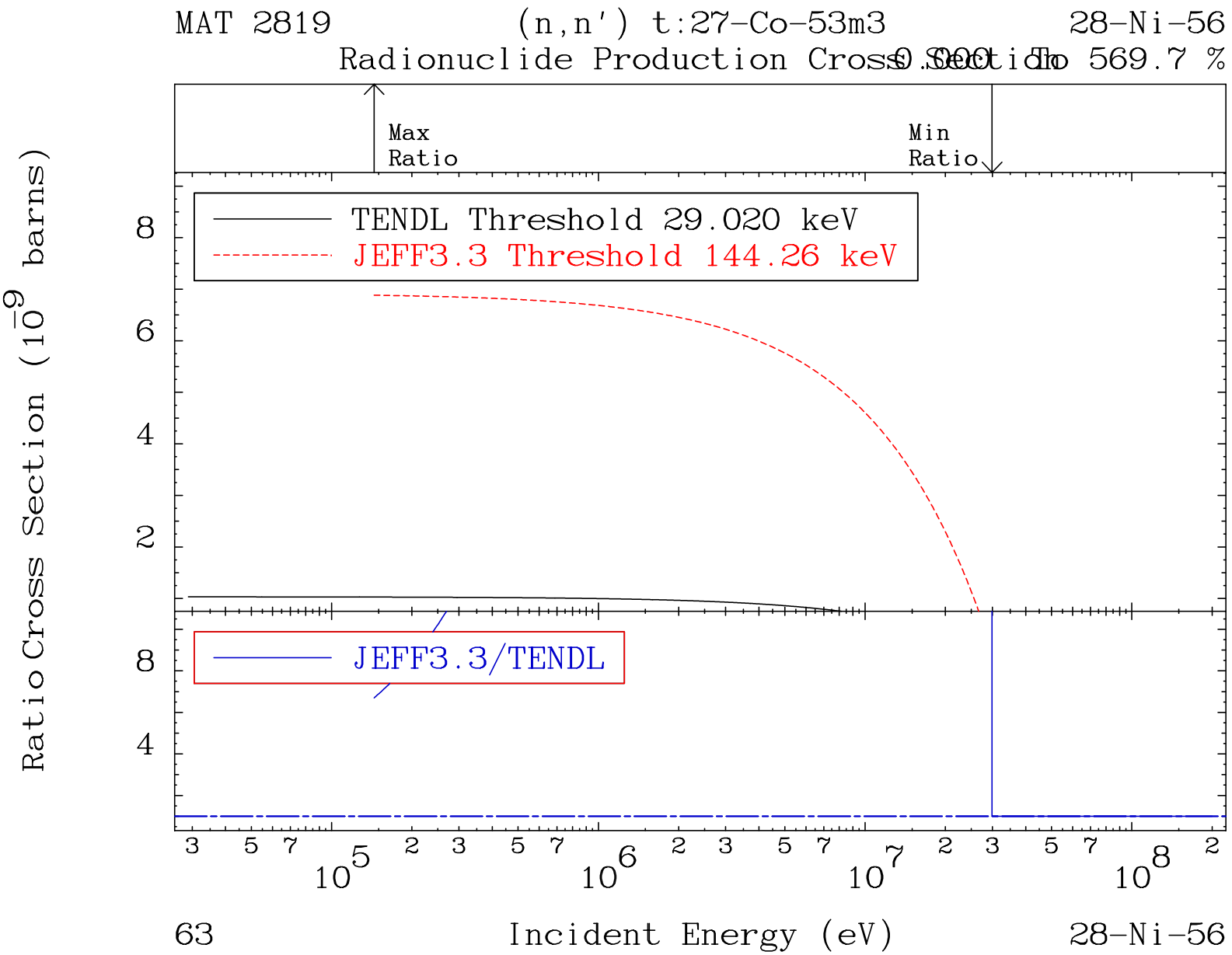

MAT 2819
Dpa inelastic (mt51-91)
28-Ni-56
Cross Section -1.423 To 17.43 %
Max Ratio
Min Ratio
TENDL Threshold 2.7493 MeV
JEFF3.3 Threshold 2.7493 MeV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
58
28-Ni-56

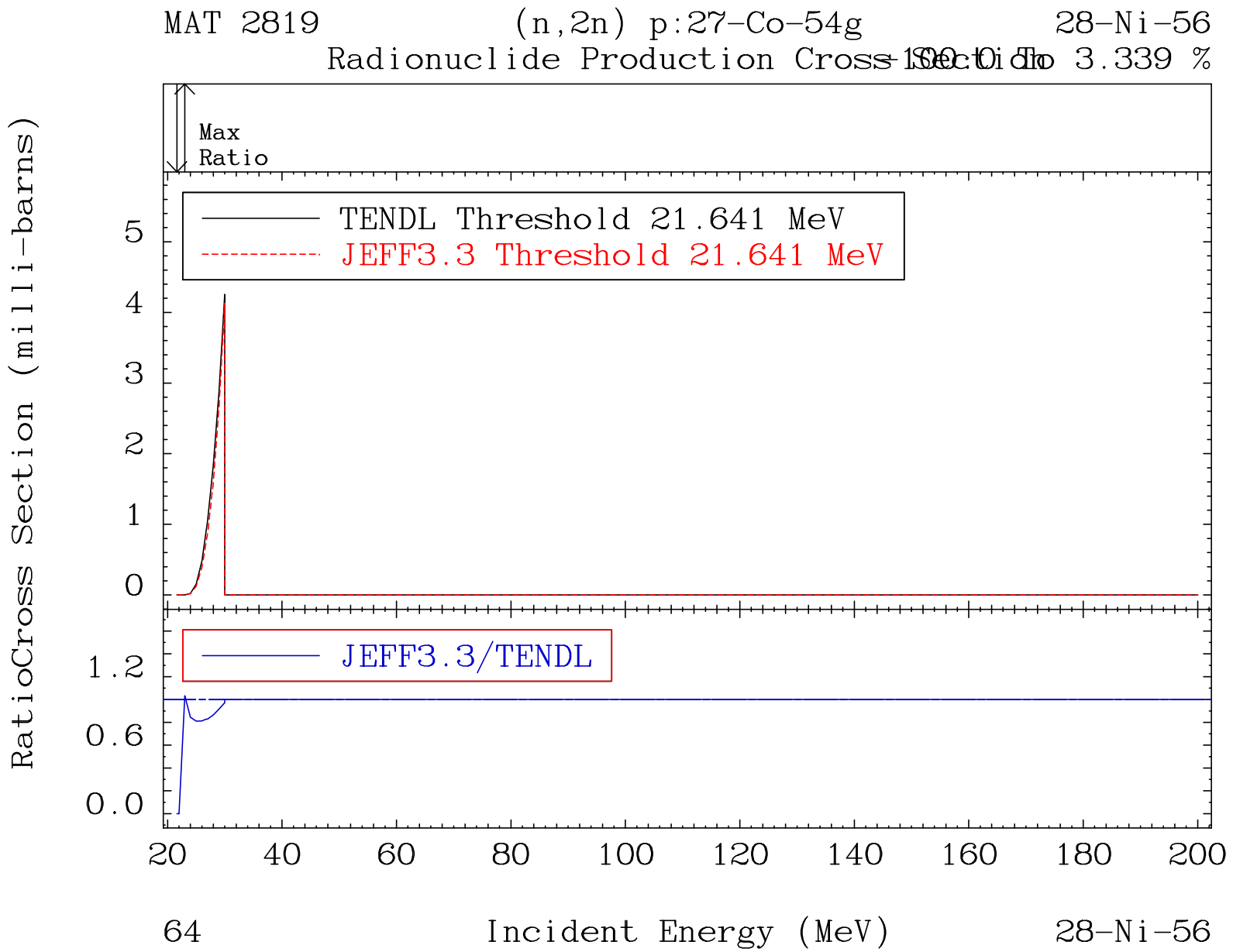

MAT 2819 Dpa disappearance (mt102 -120) 28-Ni-56
Cross Section -85.20 To 5048. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
59
28-Ni-56

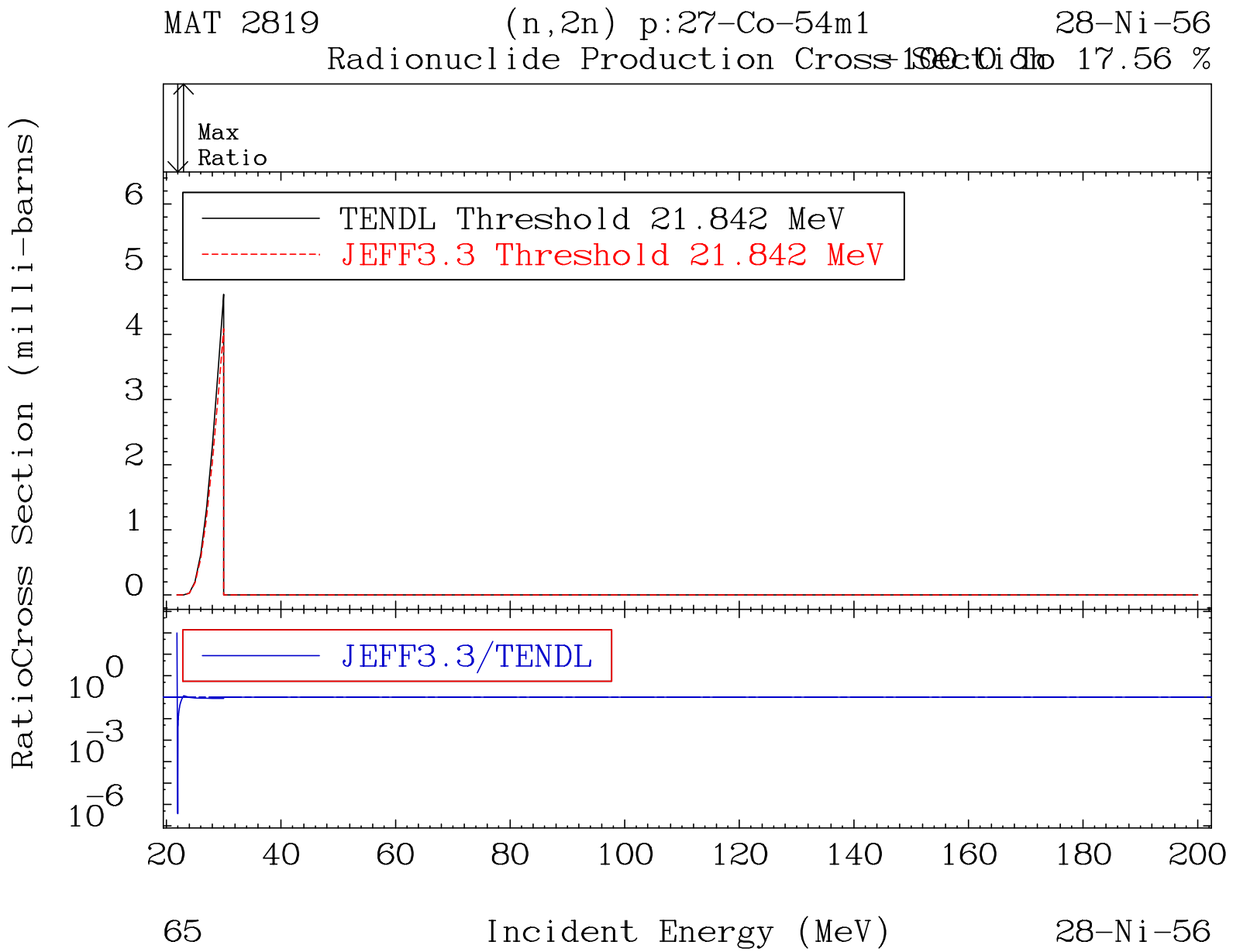

MAT 2819
(n,n') d:27-Co-54g
28-Ni-56
Radionuclide Production Cross Section To 8519. %
Max
Ratio
TENDL Threshold 19.376 MeV
JEFF3.3 Threshold 19.376 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
1.0
0.8
0.6
0.4
0.2
0.0
120
80
40
0
2
3
4
5
6
7
8
9
10^8
2
60
Incident Energy (eV)
28-Ni-56

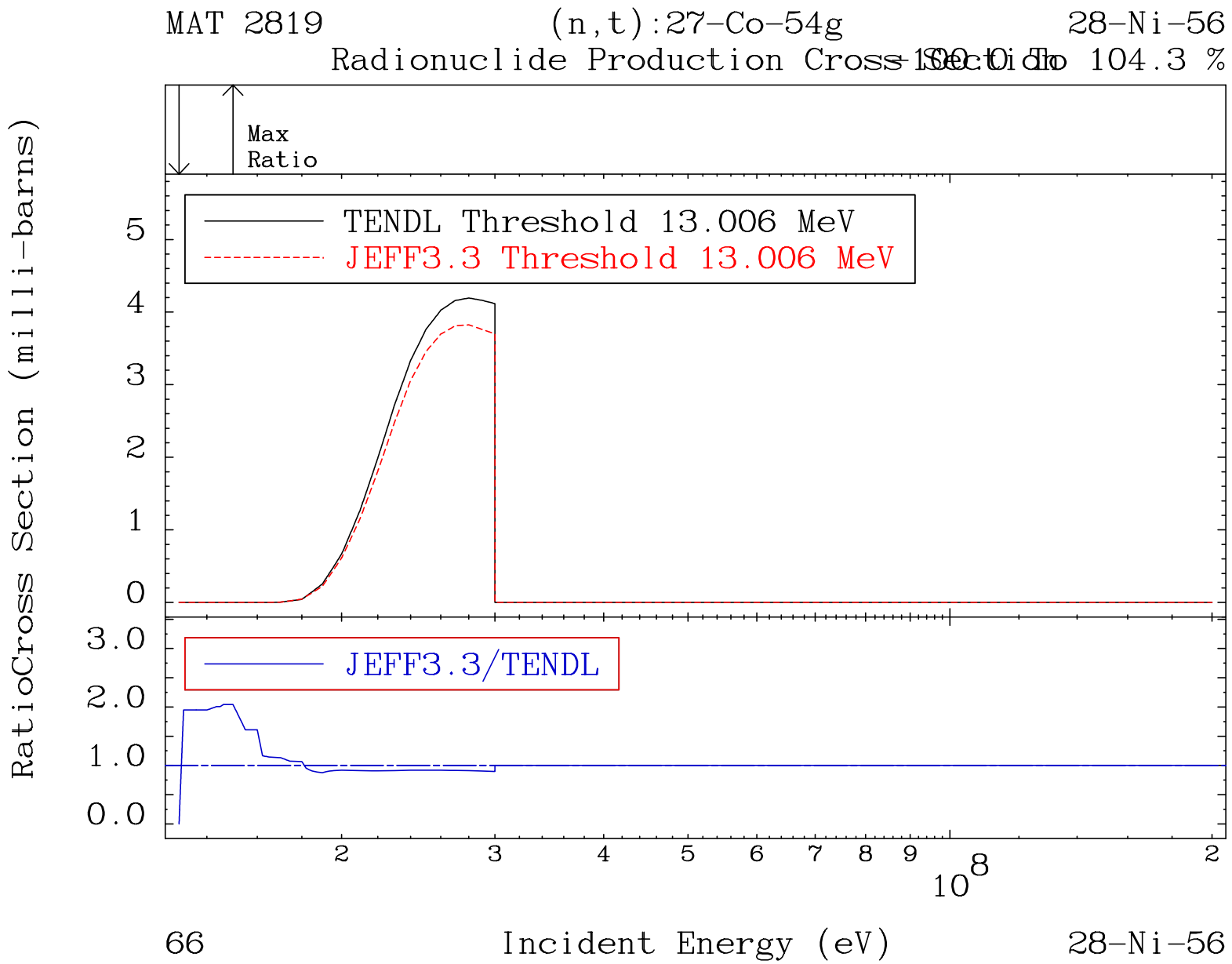

MAT 2819
(n,n') d:27-Co-54m1
28-Ni-56
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 20.000 MeV
JEFF3.3 Threshold 19.577 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
Incident Energy (eV)
61
28-Ni-56

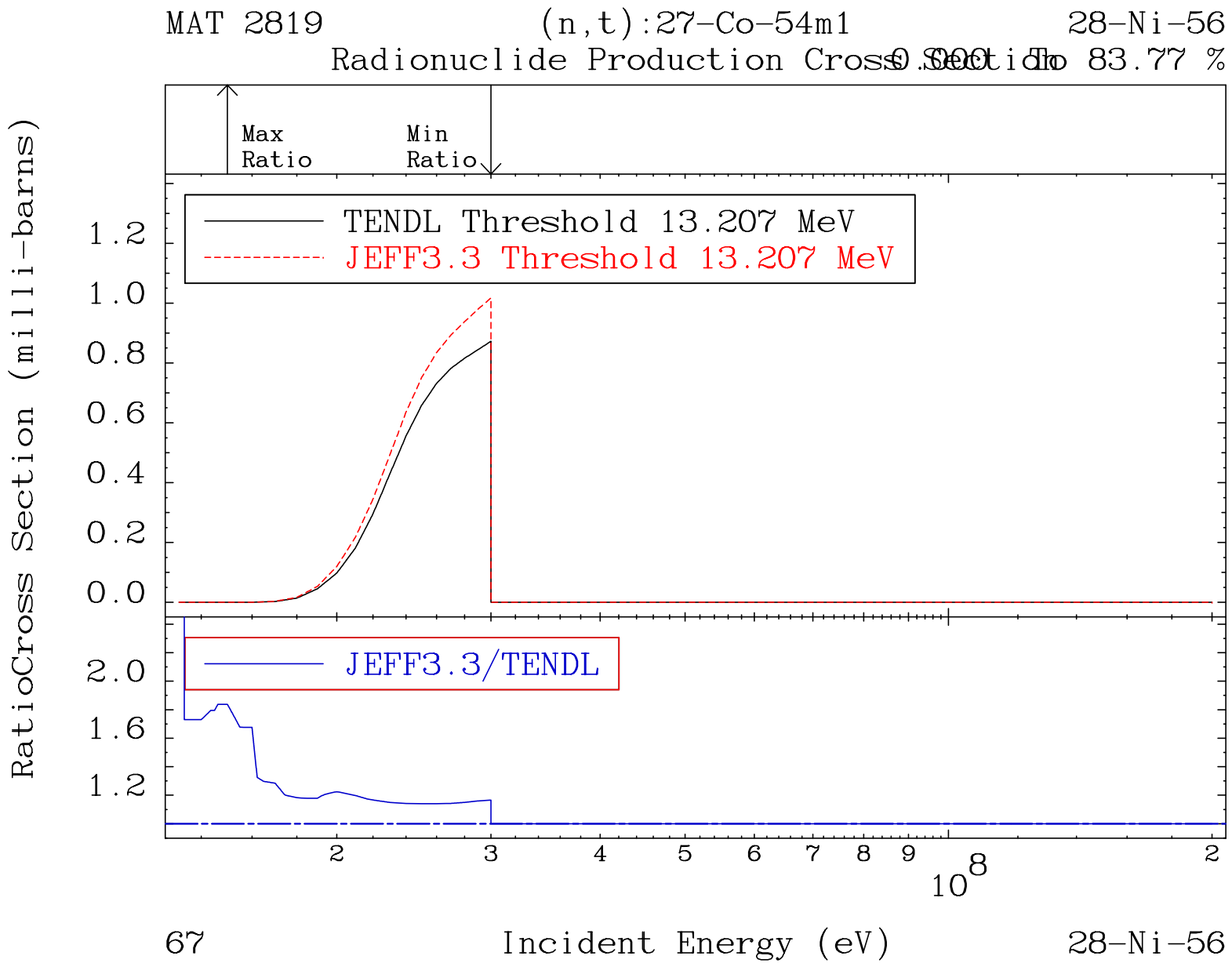

MAT 2819
(n,n') t:27-Co-53g
28-Ni-56
Radionuclide Production Cross Section To
Max
Ratio
TENDL Threshold 26.670 MeV
JEFF3.3 Threshold 26.670 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^-9 barns)
0
10
20
30
40
50
0
20
40
40
60
80
100
120
140
160
180
200
62
Incident Energy (MeV)
28-Ni-56

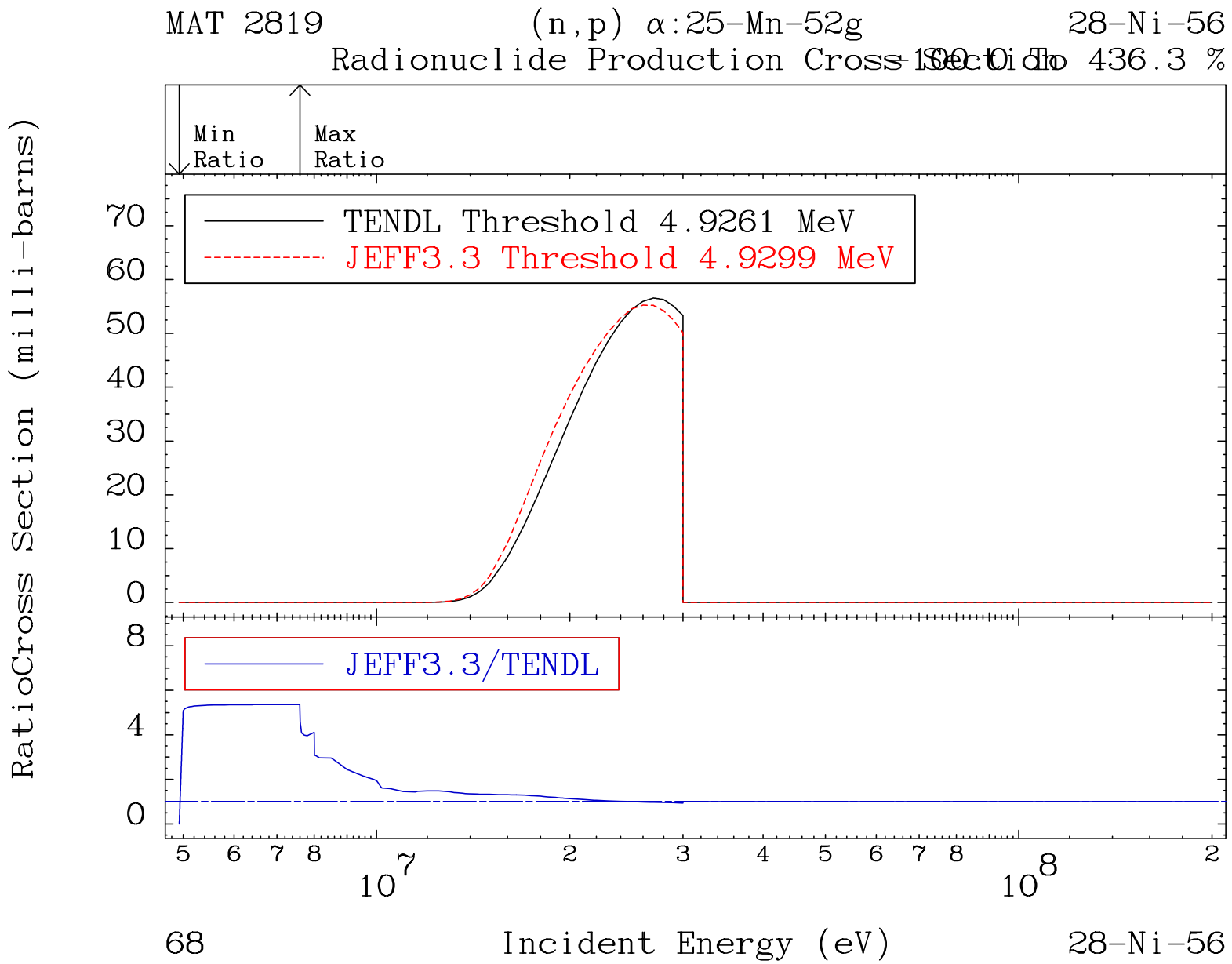

MAT 2819
(n,n') t:27-Co-53m3
28-Ni-56
Radionuclide Production Cross Section
0.000 To 569.7 %
Max Ratio
Min Ratio
TENDL Threshold 29.020 keV
JEFF3.3 Threshold 144.26 keV
JEFF3.3/TENDL
Ratio Cross Section (10^{-9} barns)
8
6
4
2
8
4
3 5 7 10^5 2 3 5 7 10^6 2 3 5 7 10^7 2 3 5 7 10^8 2
63
Incident Energy (eV)
28-Ni-56

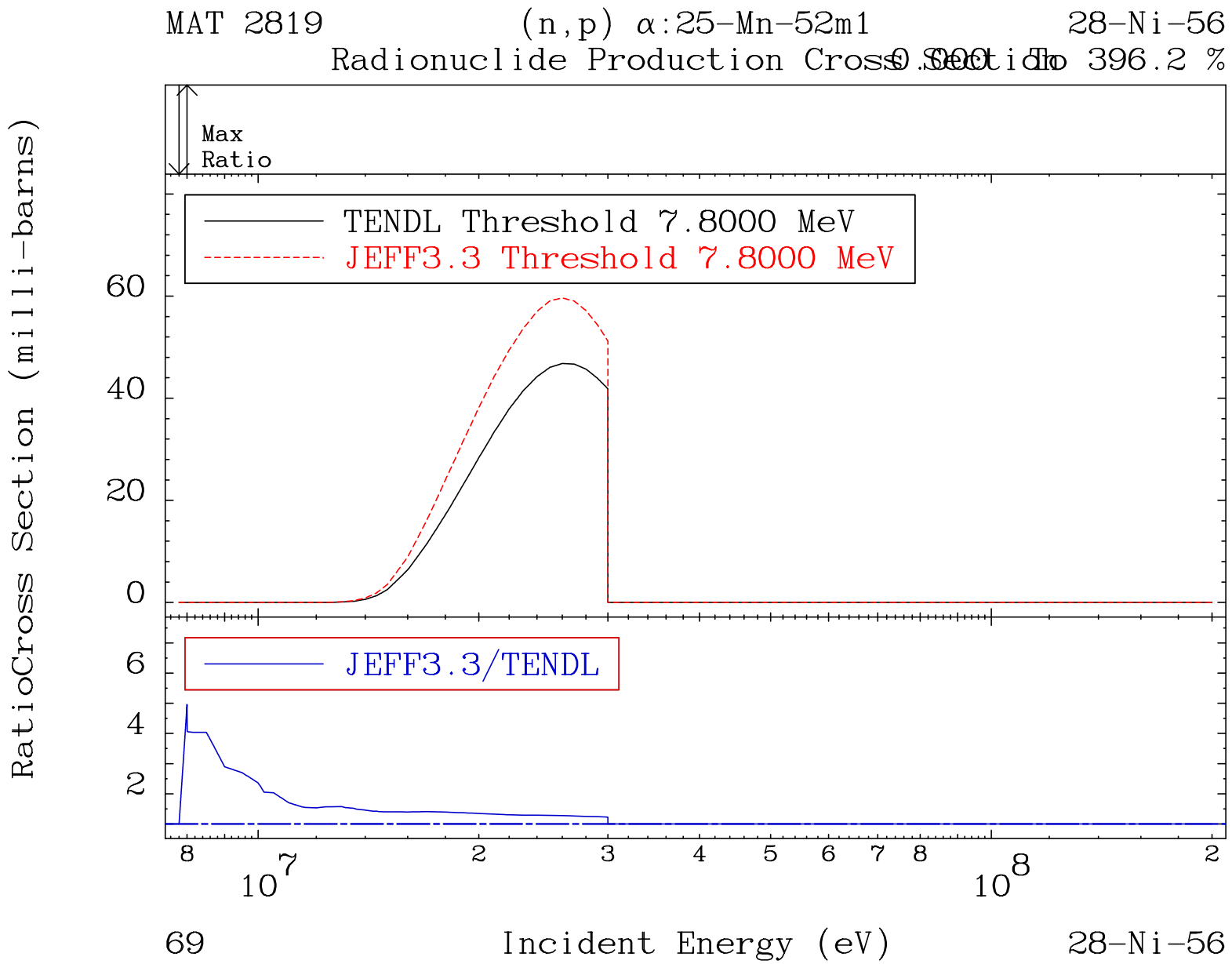

MAT 2819
(n,2n) p:27-Co-54g
28-Ni-56
Radionuclide Production Cross Section To 3.339 %
Max
Ratio
TENDL Threshold 21.641 MeV
JEFF3.3 Threshold 21.641 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
0
1
2
3
4
5
0.0
0.6
1.2
20
40
60
80
100
120
140
160
180
200
64
Incident Energy (MeV)
28-Ni-56


MAT 2819
(n,2n) p:27-Co-54m1
28-Ni-56
Radionuclide Production Cross Section To 17.56 %
Max
Ratio
TENDL Threshold 21.842 MeV
JEFF3.3 Threshold 21.842 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (MeV)
65
28-Ni-56


MAT 2819
(n,t):27-Co-54g
28-Ni-56
Radionuclide Production Cross Section To 104.3 %
Max
Ratio
TENDL Threshold 13.006 MeV
JEFF3.3 Threshold 13.006 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
66
28-Ni-56


MAT 2819
(n,t):27-Co-54m1
28-Ni-56
Radionuclide Production Cross Section
0.000 To 83.77 %
Max Ratio
Min Ratio
TENDL Threshold 13.207 MeV
JEFF3.3 Threshold 13.207 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
2.0
1.6
1.2
2
3
4
5
6
7
8
9
10^8
2
67
Incident Energy (eV)
28-Ni-56


MAT 2819
(n,p) α:25-Mn-52g
28-Ni-56
Radionuclide Production Cross Section To 436.3 %
Min Ratio
Max Ratio
TENDL Threshold 4.9261 MeV
JEFF3.3 Threshold 4.9299 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
68
28-Ni-56


MAT 2819
(n,p) α:25-Mn-52m1
28-Ni-56
Radionuclide Production Cross Section
0.3000 To 396.2 %
Max
Ratio
TENDL Threshold 7.8000 MeV
JEFF3.3 Threshold 7.8000 MeV
60
40
20
0
JEFF3.3/TENDL
6
4
2
8
2
3
4
5
6
7
8
2
10^7
10^8
RatioCross Section (milli-barns)
69
Incident Energy (eV)
28-Ni-56