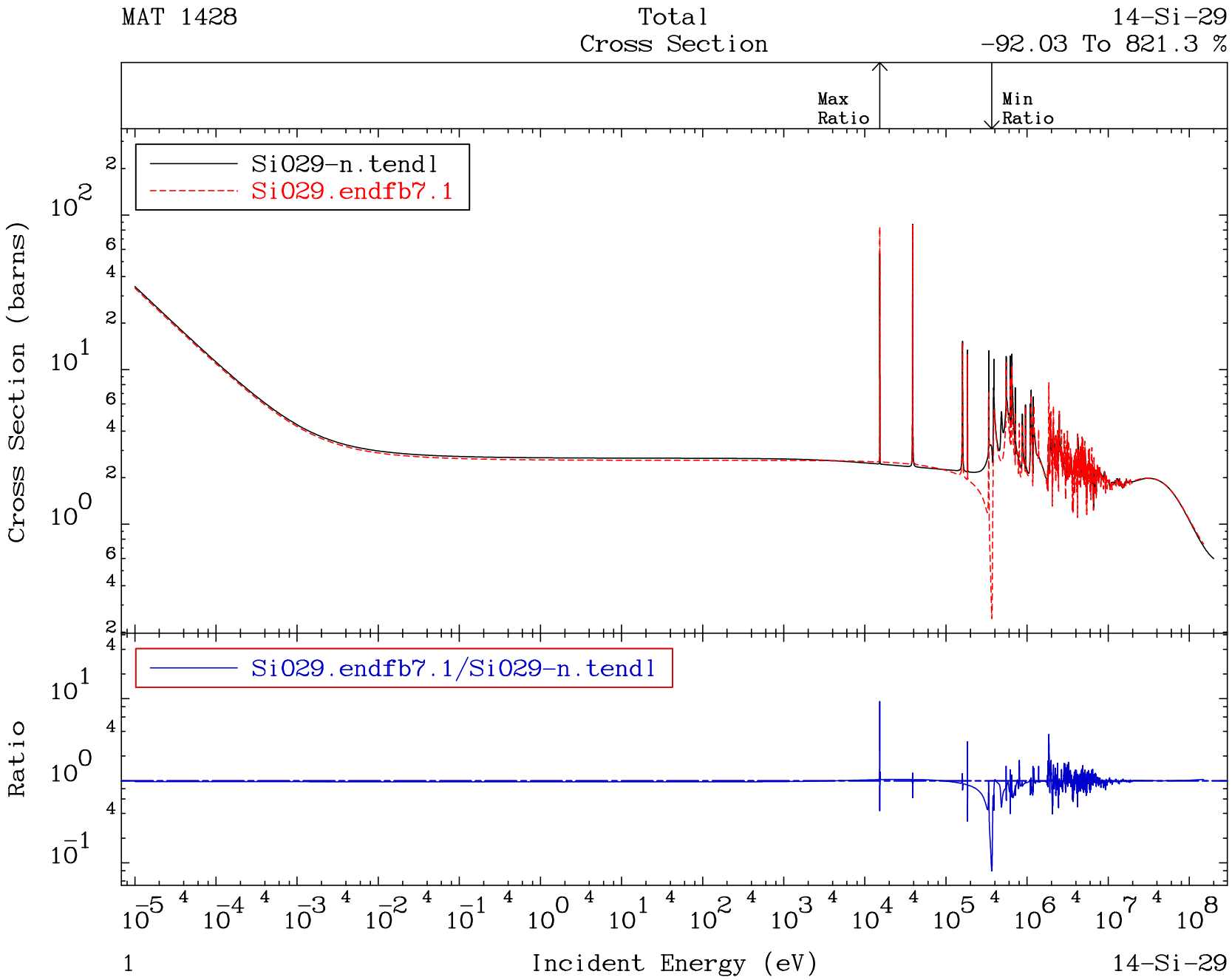
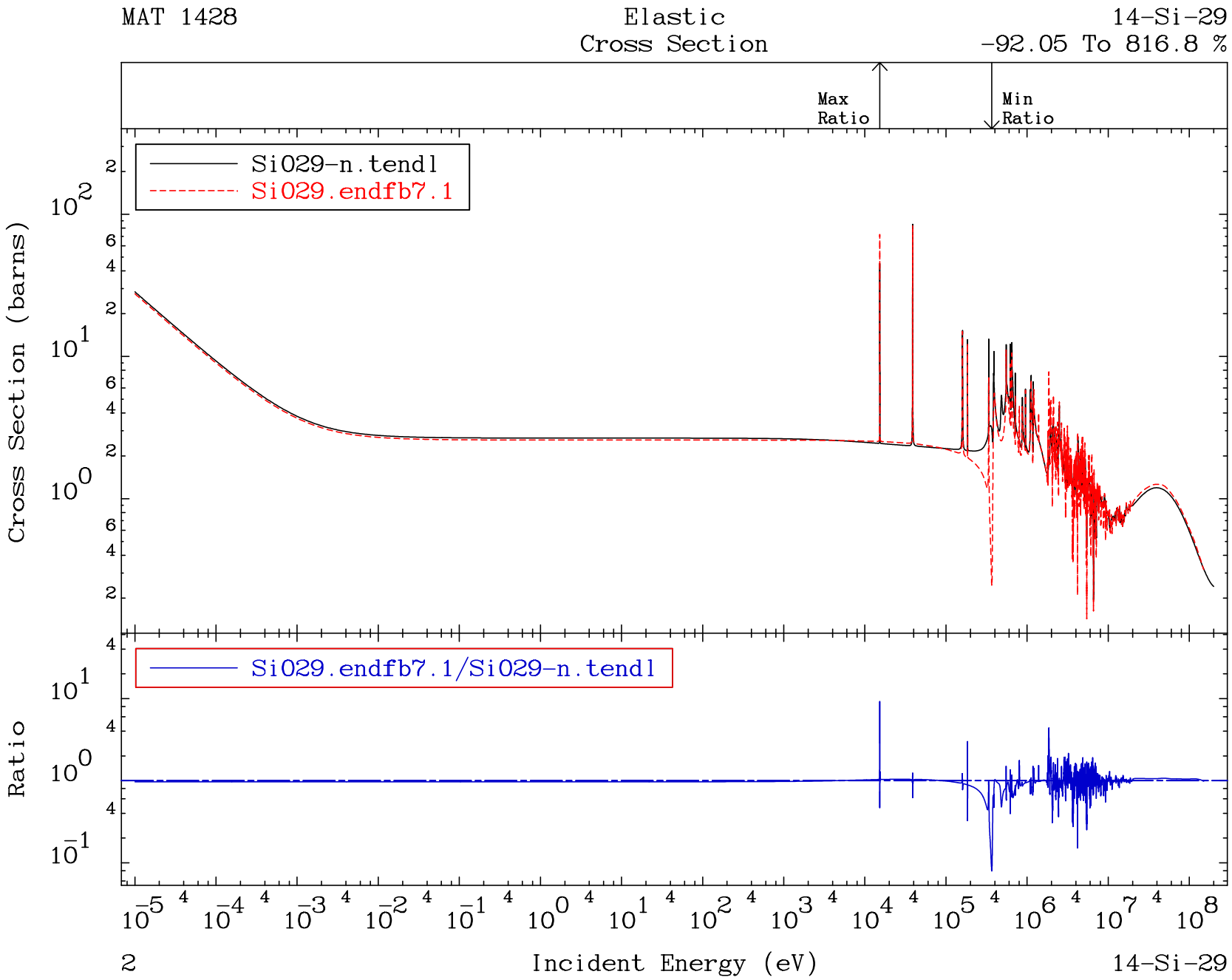
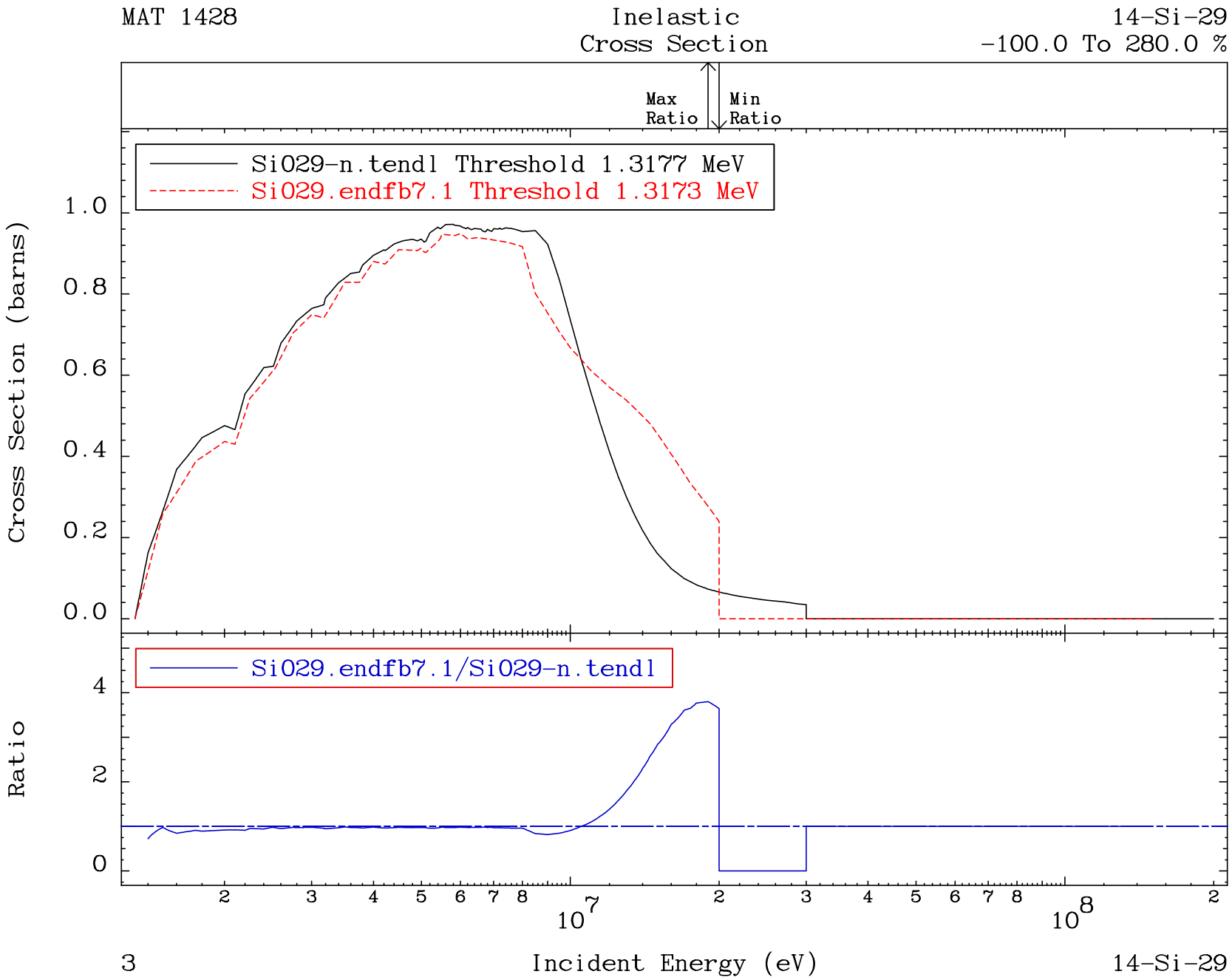
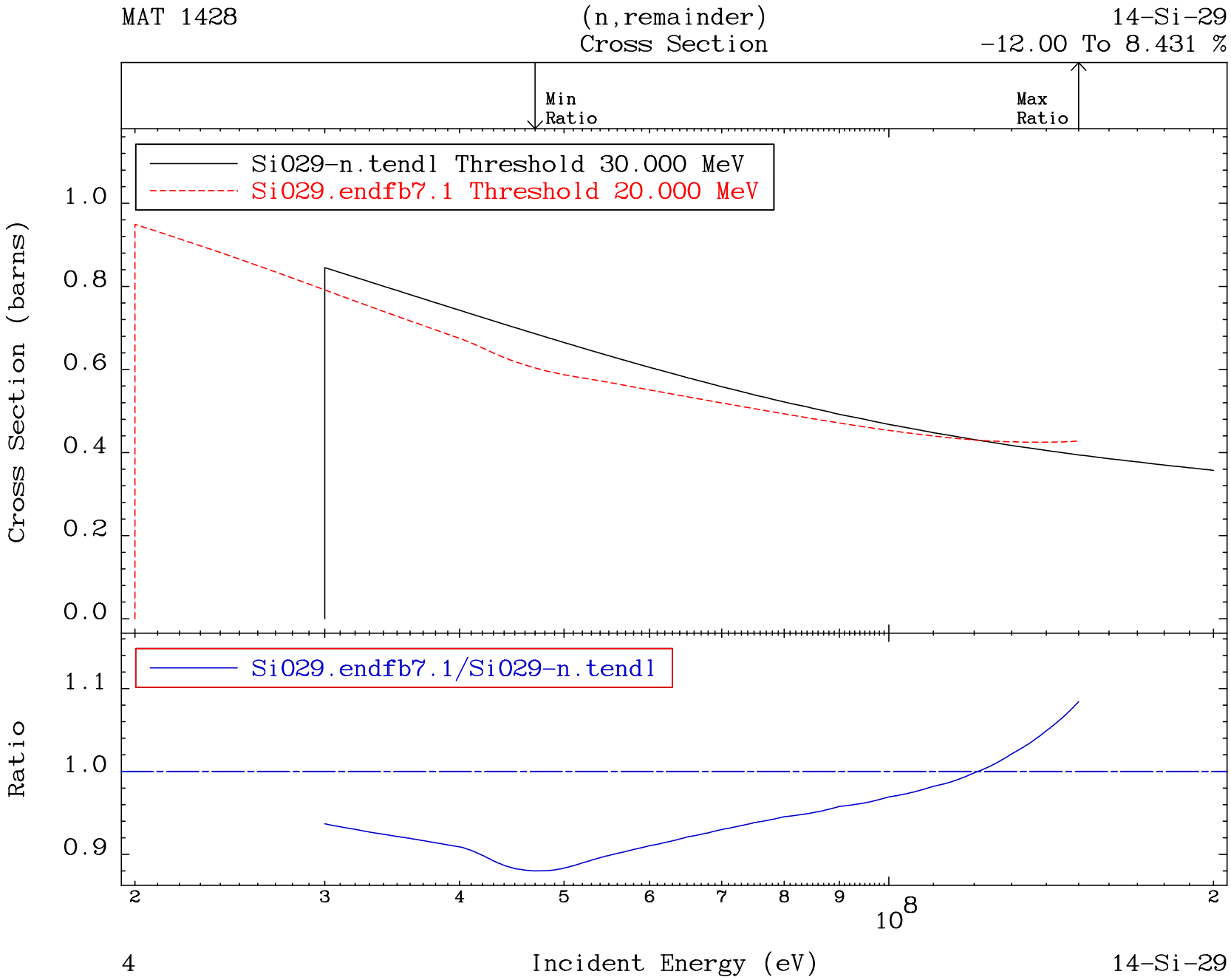
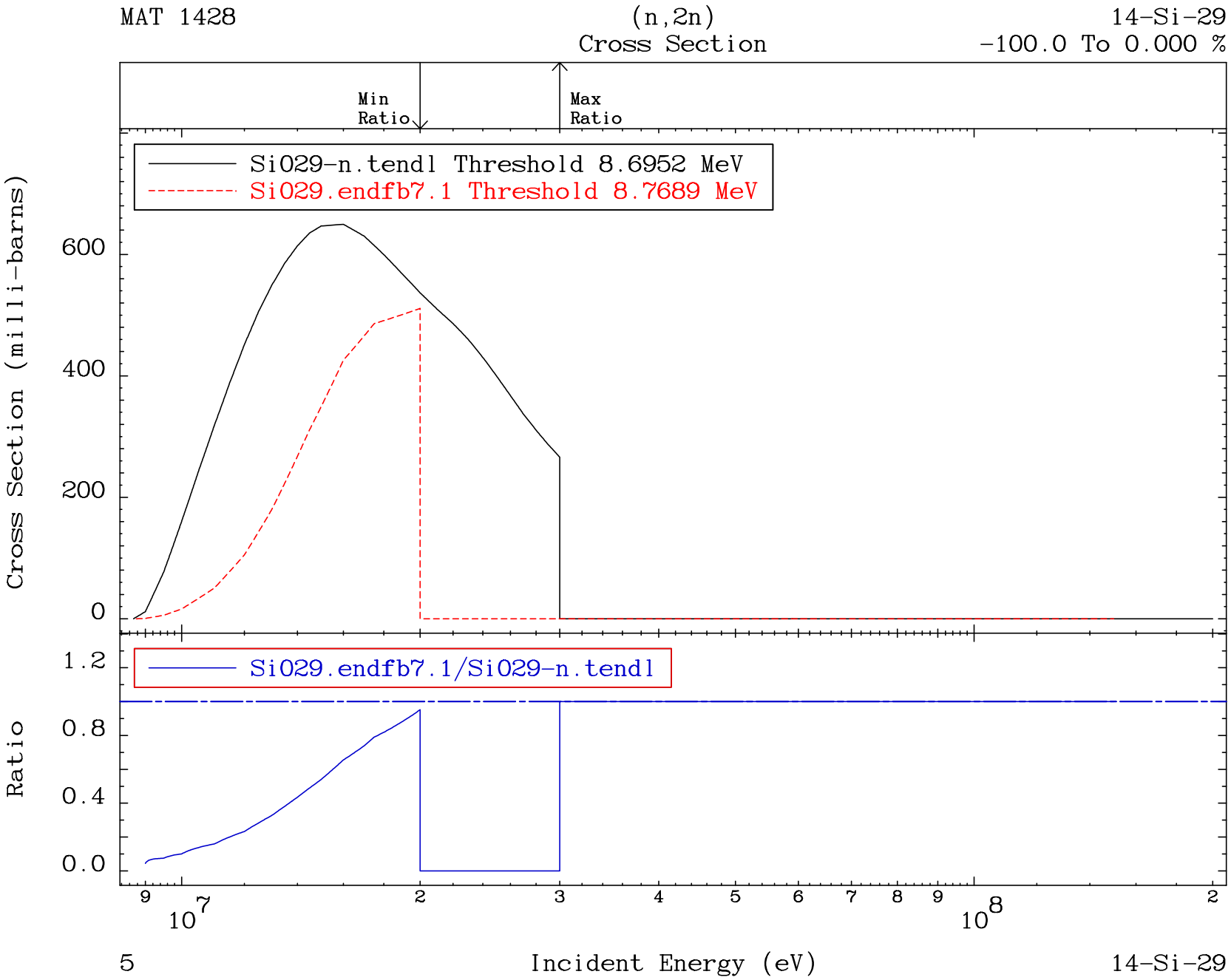
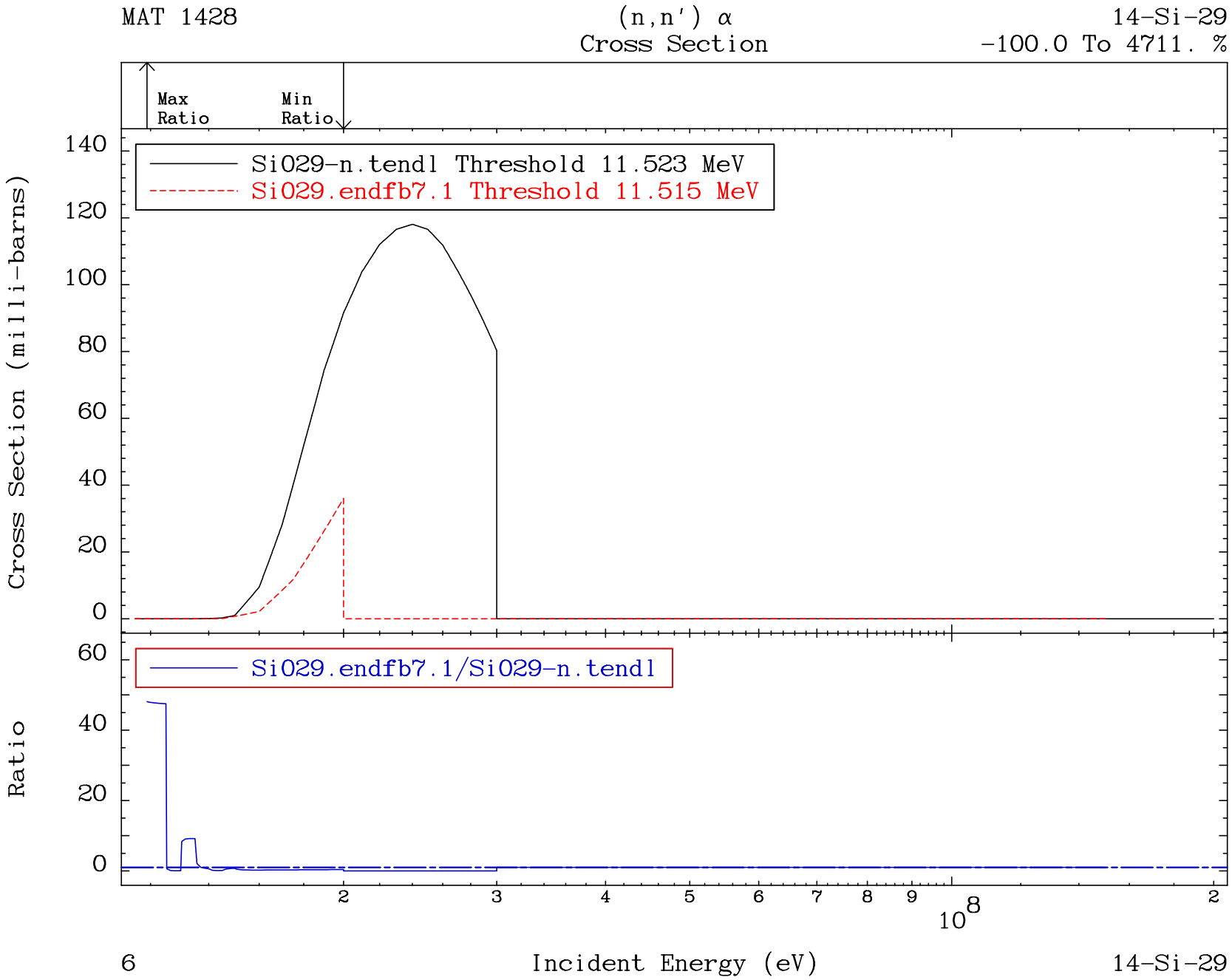

MAT 1428
Total
Cross Section
14-Si-29
-92.03 To 821.3 %
Max
Ratio
Min
Ratio
Si029-n.tendl
Si029.endfb7.1
Cross Section (barns)
Si029.endfb7.1/Si029-n.tendl
Ratio
Incident Energy (eV)
1
14-Si-29

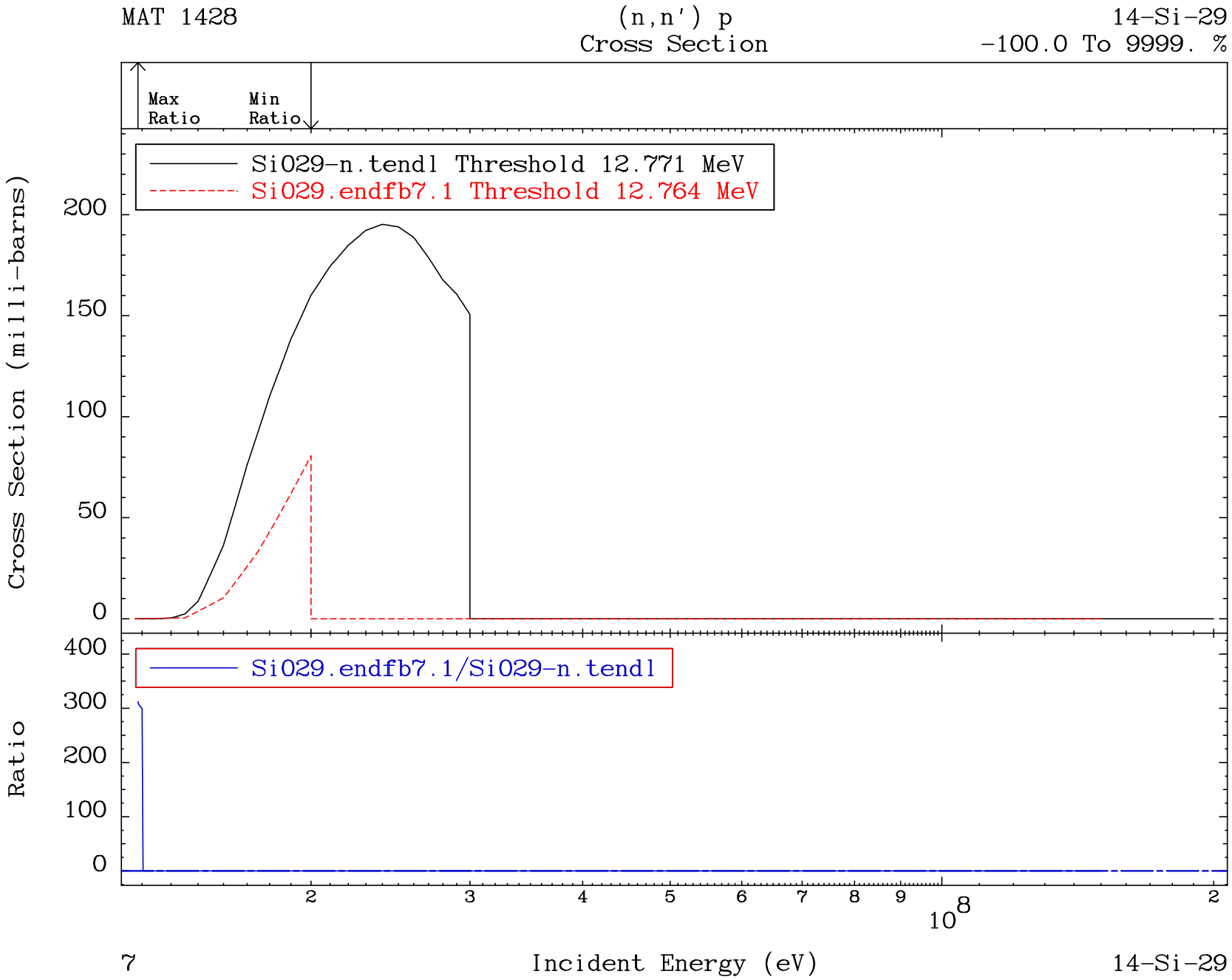

MAT 1428
Elastic
Cross Section
14-Si-29
-92.05 To 816.8 %
Max
Ratio
Min
Ratio
Si029-n.tendl
Si029.endfb7.1
Cross Section (barns)
Si029.endfb7.1/Si029-n.tendl
Ratio
Incident Energy (eV)
2
14-Si-29

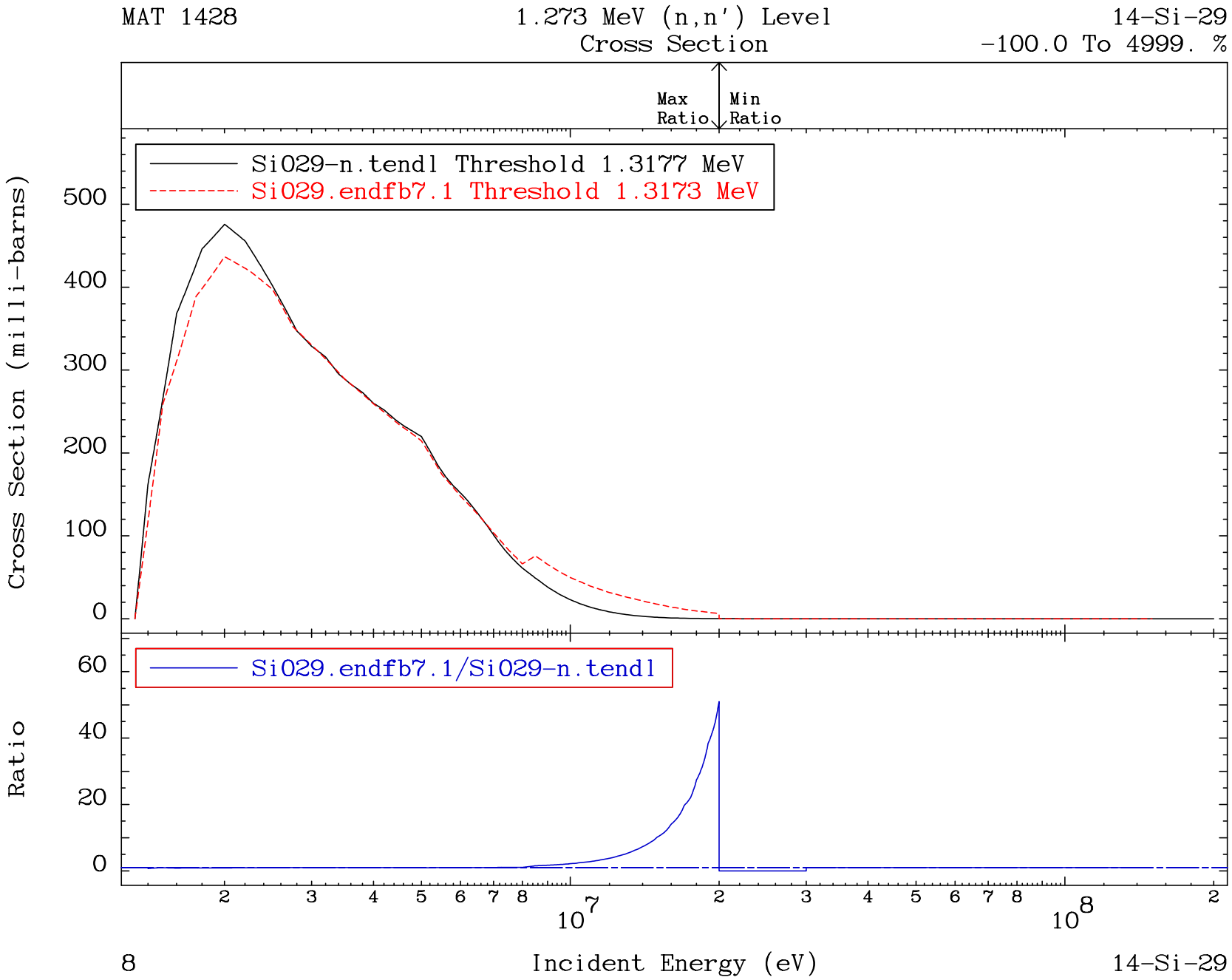

MAT 1428
Inelastic
Cross Section
14-Si-29
-100.0 To 280.0 %
Max
Ratio
Min
Ratio
Si029-n.tendl Threshold 1.3177 MeV
Si029.endfb7.1 Threshold 1.3173 MeV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
Si029.endfb7.1/Si029-n.tendl
Ratio
4
2
0
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
3
Incident Energy (eV)
14-Si-29

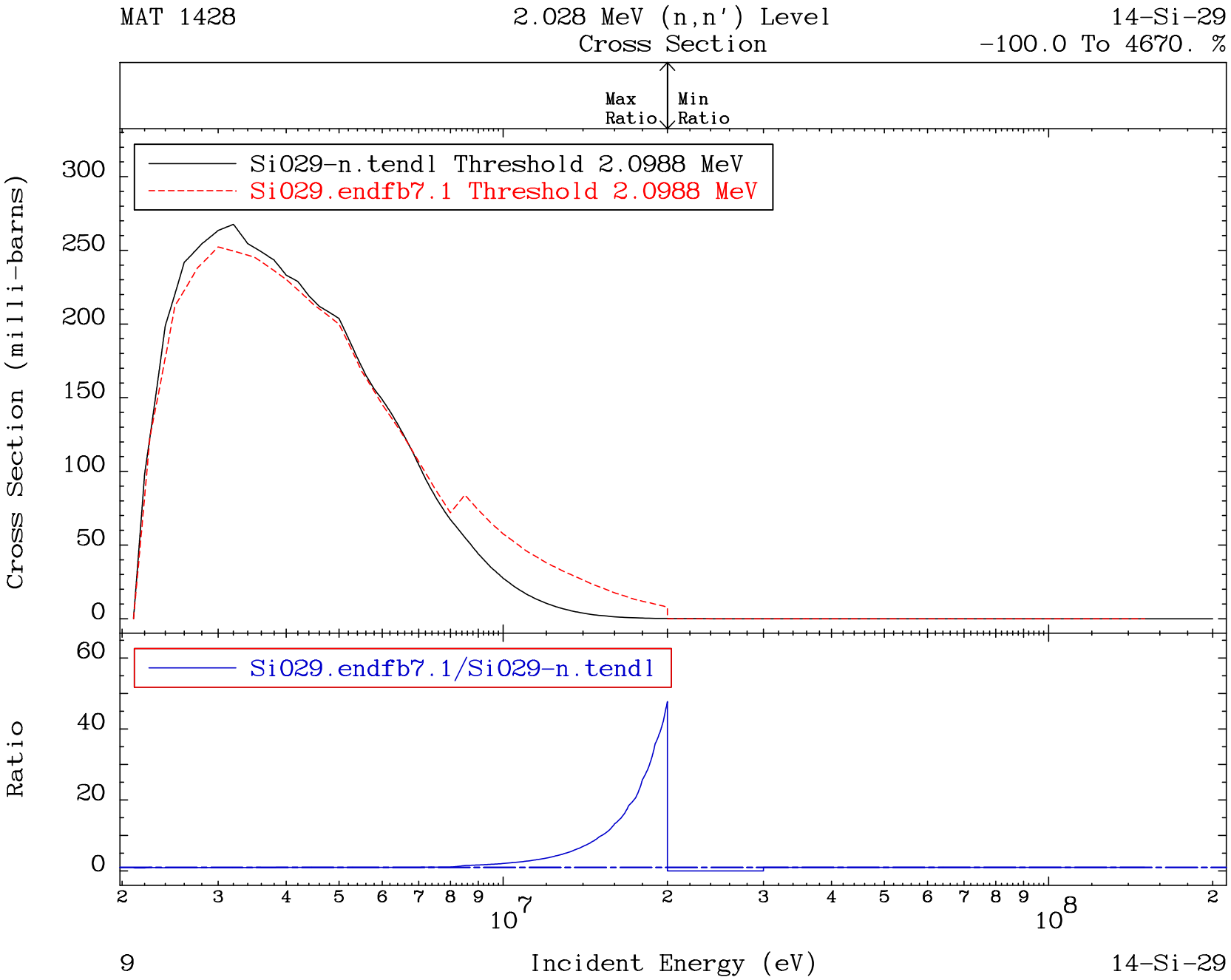

MAT 1428
(n,remainder)
Cross Section
14-Si-29
-12.00 To 8.431 %
Min
Ratio
Max
Ratio
Si029-n.tendl Threshold 30.000 MeV
Si029.endfb7.1 Threshold 20.000 MeV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
Si029.endfb7.1/Si029-n.tendl
Ratio
1.1
1.0
0.9
2
3
4
5
6
7
8
9
10^8
2
4
Incident Energy (eV)
14-Si-29

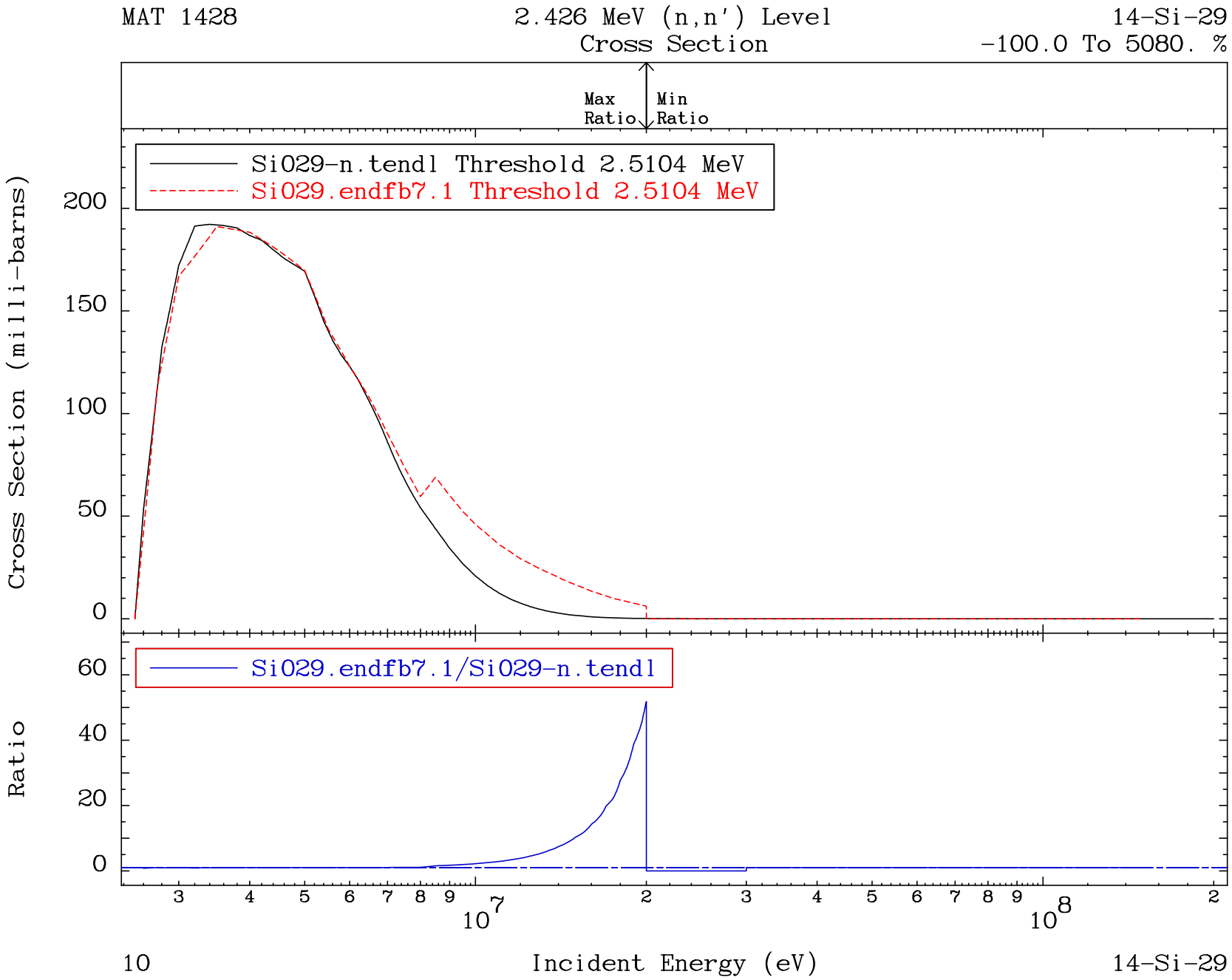

MAT 1428
(n,2n)
Cross Section
14-Si-29
-100.0 To 0.000 %
Min Ratio
Max Ratio
Si029-n.tendl Threshold 8.6952 MeV
Si029.endfb7.1 Threshold 8.7689 MeV
Cross Section (milli-barns)
600
400
200
0
Si029.endfb7.1/Si029-n.tendl
Ratio
1.2
0.8
0.4
0.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
14-Si-29

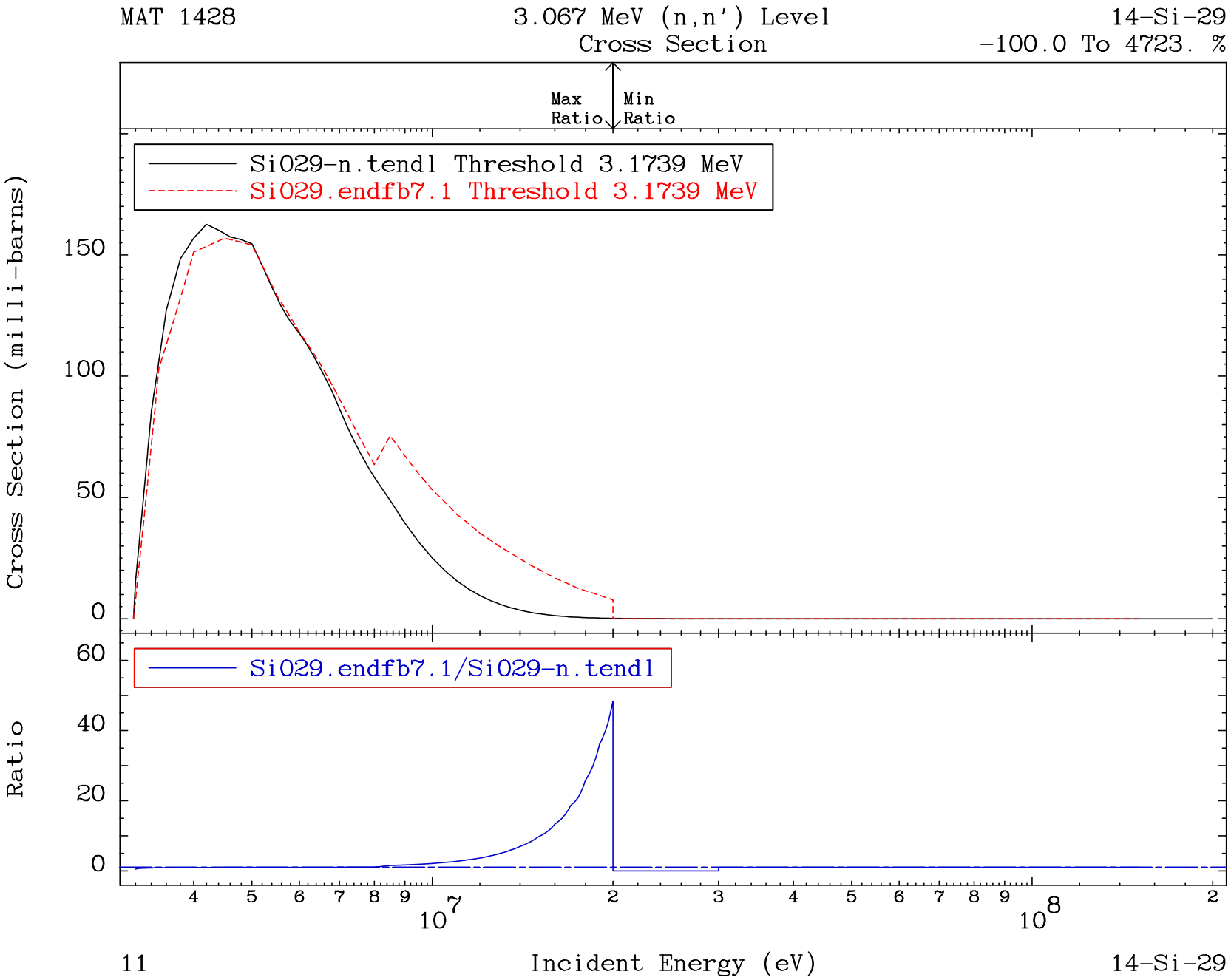

MAT 1428
(n,n') α
Cross Section
14-Si-29
-100.0 To 4711. %
Max Ratio
Min Ratio
Si029-n.tendl Threshold 11.523 MeV
Si029.endfb7.1 Threshold 11.515 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
Si029.endfb7.1/Si029-n.tendl
Ratio
60
40
20
0
2
3
4
5
6
7
8
9
10^8
2
6
Incident Energy (eV)
14-Si-29

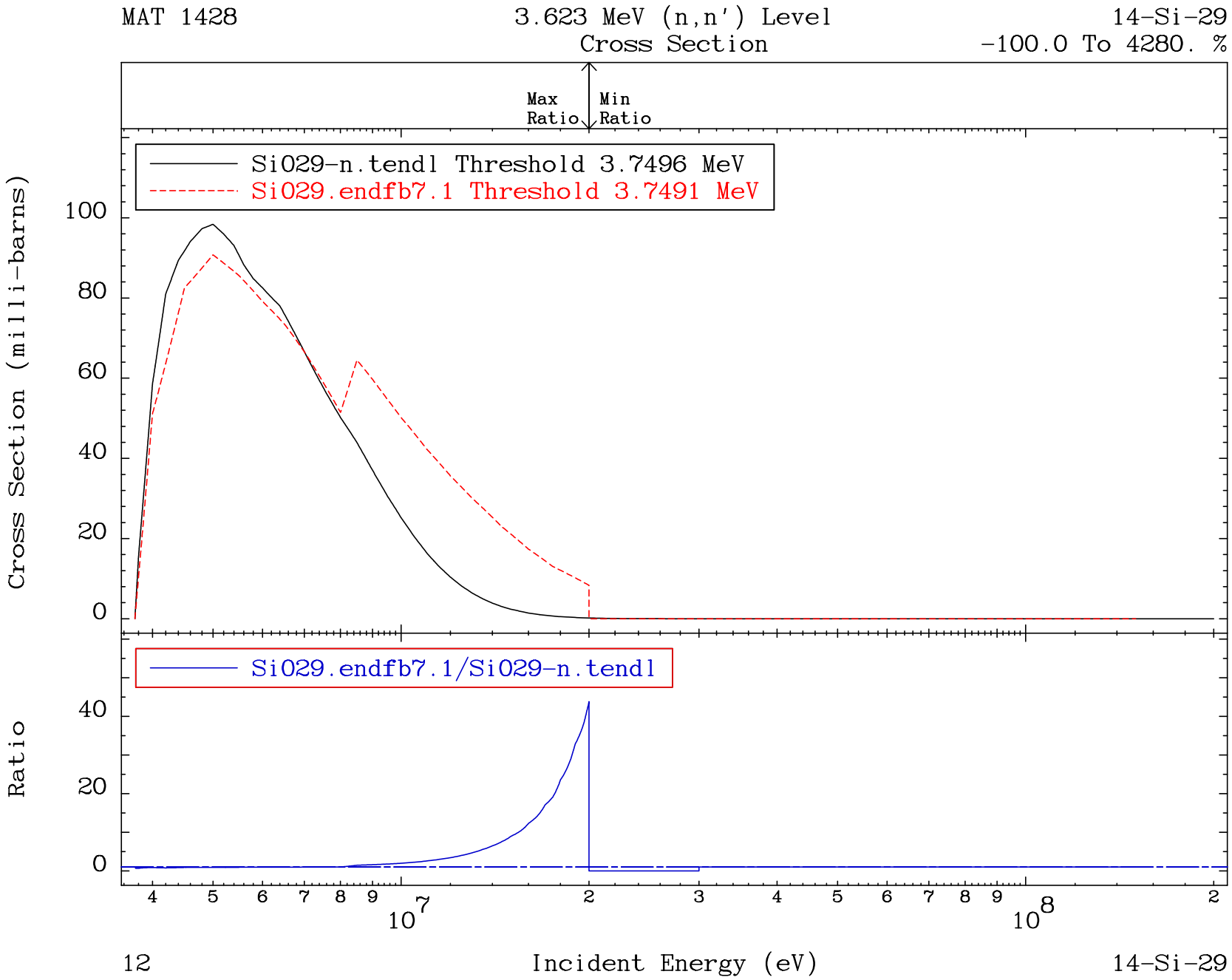

MAT 1428
(n,n') p
Cross Section
14-Si-29
-100.0 To 9999. %
Max Ratio
Min Ratio
Si029-n.tendl Threshold 12.771 MeV
Si029.endfb7.1 Threshold 12.764 MeV
Cross Section (milli-barns)
200
150
100
50
0
Si029.endfb7.1/Si029-n.tendl
Ratio
400
300
200
100
0
2
3
4
5
6
7
8
9
10^8
2
7
Incident Energy (eV)
14-Si-29

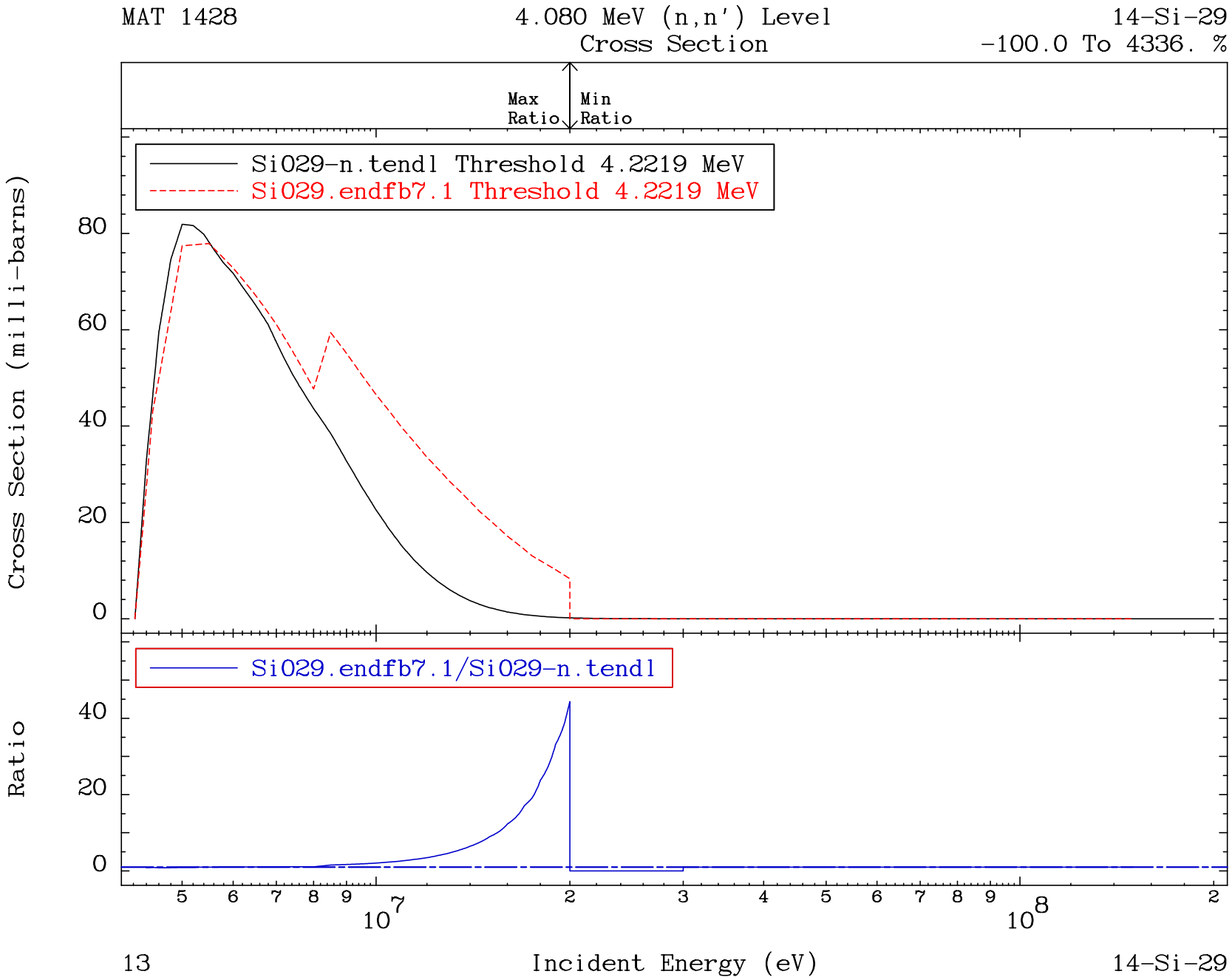

MAT 1428
1.273 MeV (n,n') Level
Cross Section
14-Si-29
-100.0 To 4999. %
Max Ratio
Min Ratio
Si029-n.tendl Threshold 1.3177 MeV
Si029.endfb7.1 Threshold 1.3173 MeV
Cross Section (milli-barns)
500
400
300
200
100
0
Si029.endfb7.1/Si029-n.tendl
Ratio
60
40
20
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
8
Incident Energy (eV)
14-Si-29

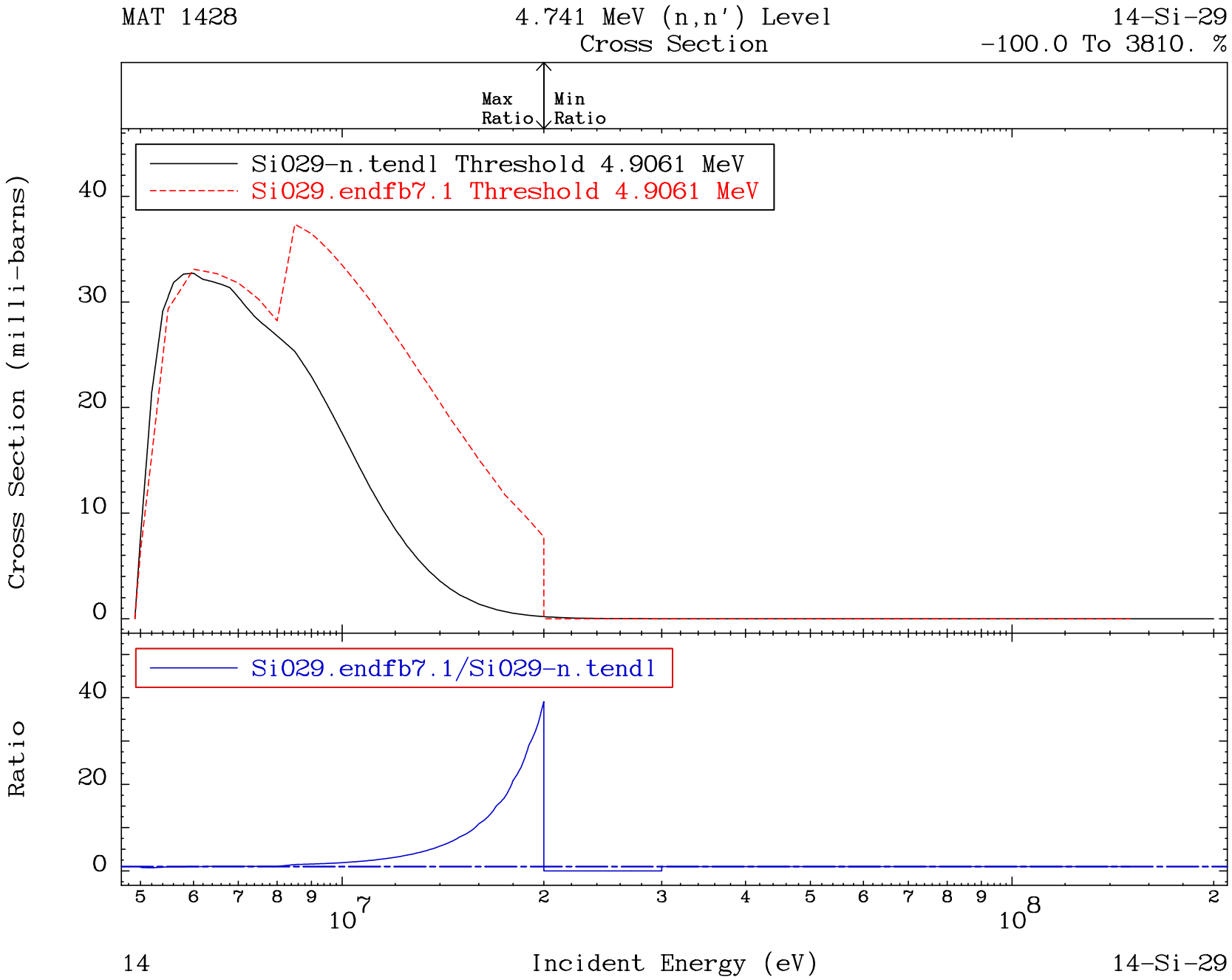

MAT 1428
2.028 MeV (n,n') Level
Cross Section
14-Si-29
-100.0 To 4670. %
Max Ratio
Min Ratio
Si029-n.tendl Threshold 2.0988 MeV
Si029.endfb7.1 Threshold 2.0988 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
Si029.endfb7.1/Si029-n.tendl
Ratio
60
40
20
0
2 3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
9
Incident Energy (eV)
14-Si-29

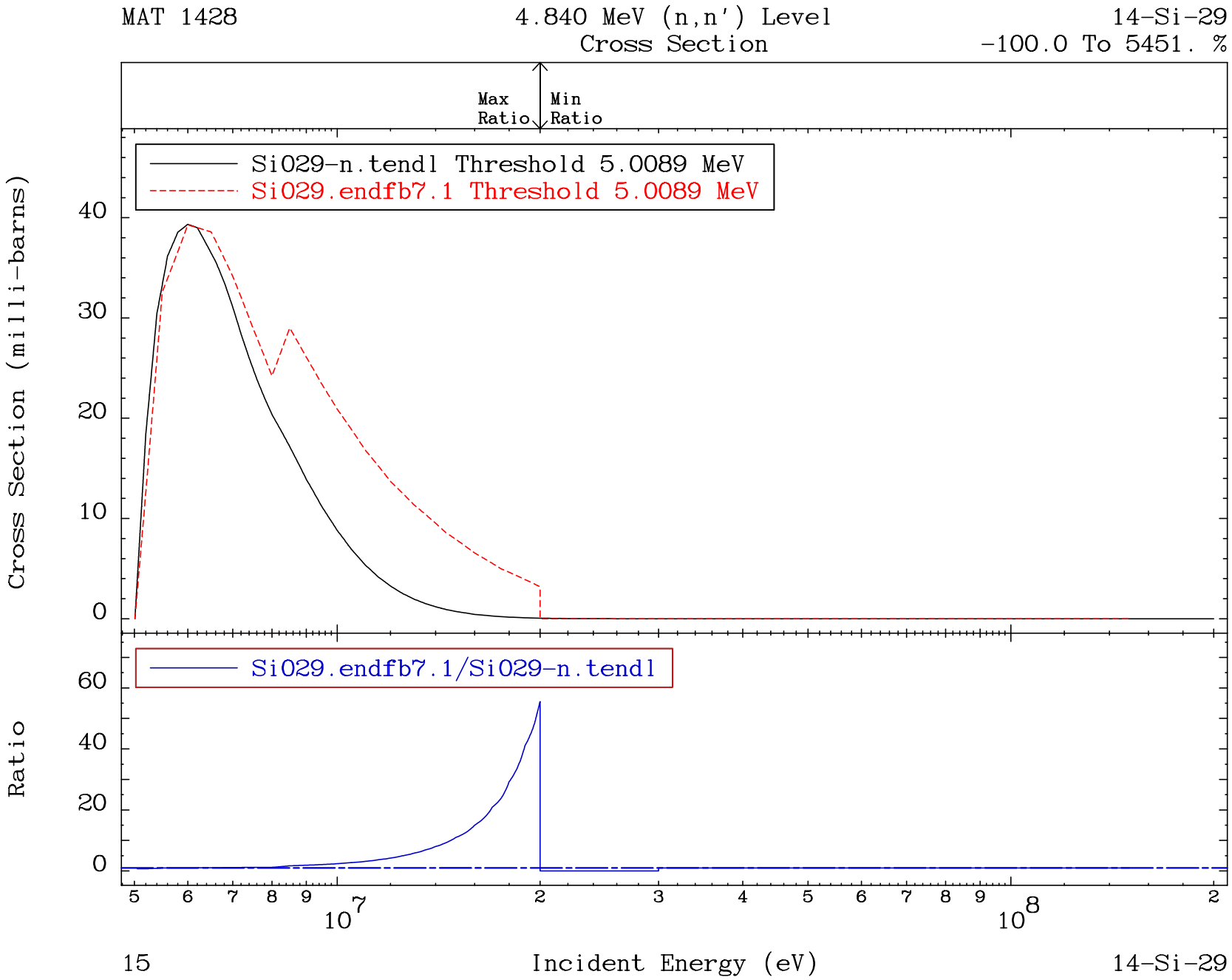

MAT 1428
2.426 MeV (n,n') Level
Cross Section
14-Si-29
-100.0 To 5080. %
Max Ratio
Min Ratio
Si029-n.tendl Threshold 2.5104 MeV
Si029.endfb7.1 Threshold 2.5104 MeV
Cross Section (milli-barns)
200
150
100
50
0
Si029.endfb7.1/Si029-n.tendl
Ratio
60
40
20
0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
10
Incident Energy (eV)
14-Si-29

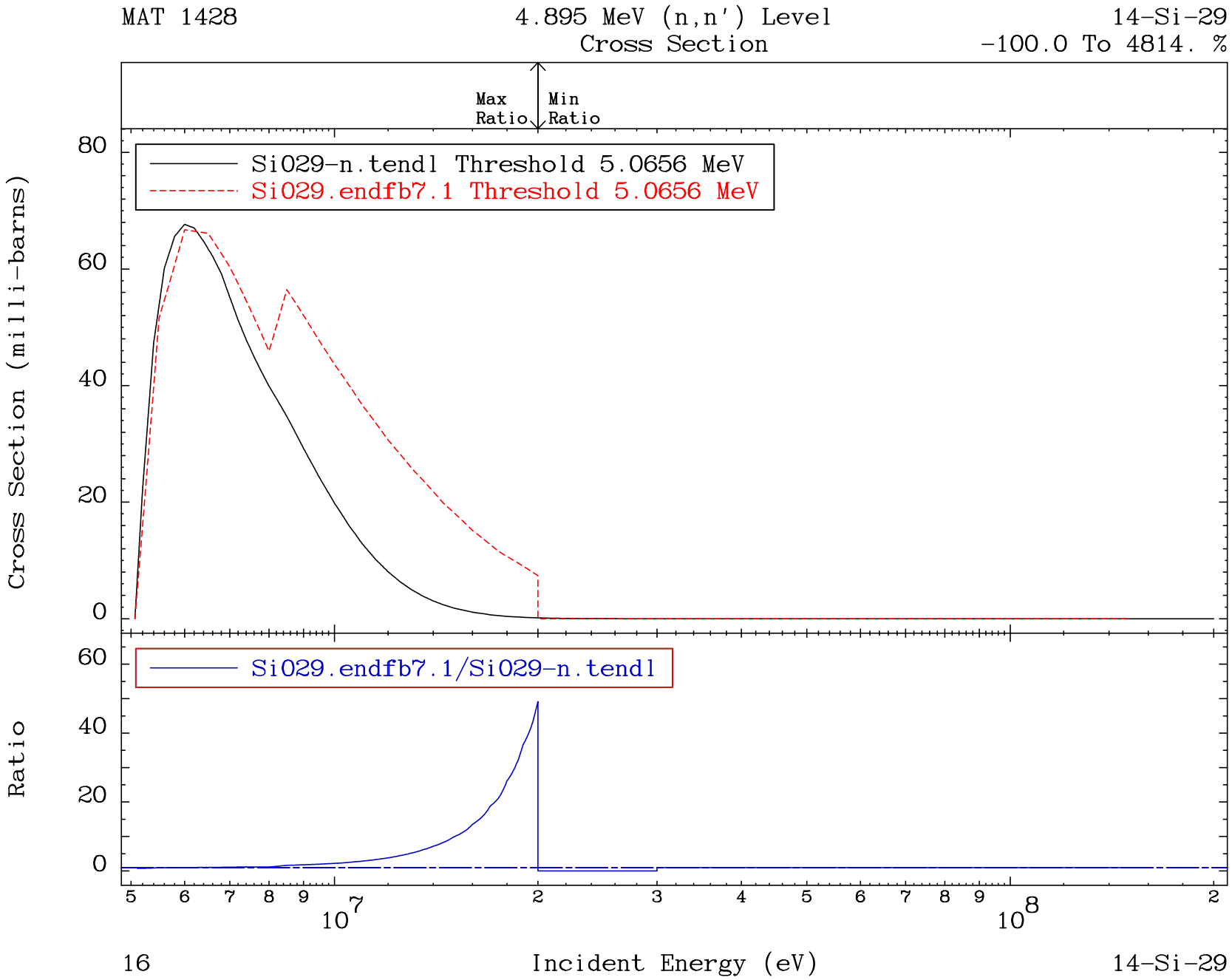

MAT 1428
3.067 MeV (n,n') Level
Cross Section
14-Si-29
-100.0 To 4723. %
Max Ratio
Min Ratio
Si029-n.tendl Threshold 3.1739 MeV
Si029.endfb7.1 Threshold 3.1739 MeV
Cross Section (milli-barns)
150
100
50
0
Si029.endfb7.1/Si029-n.tendl
Ratio
60
40
20
0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
11
Incident Energy (eV)
14-Si-29

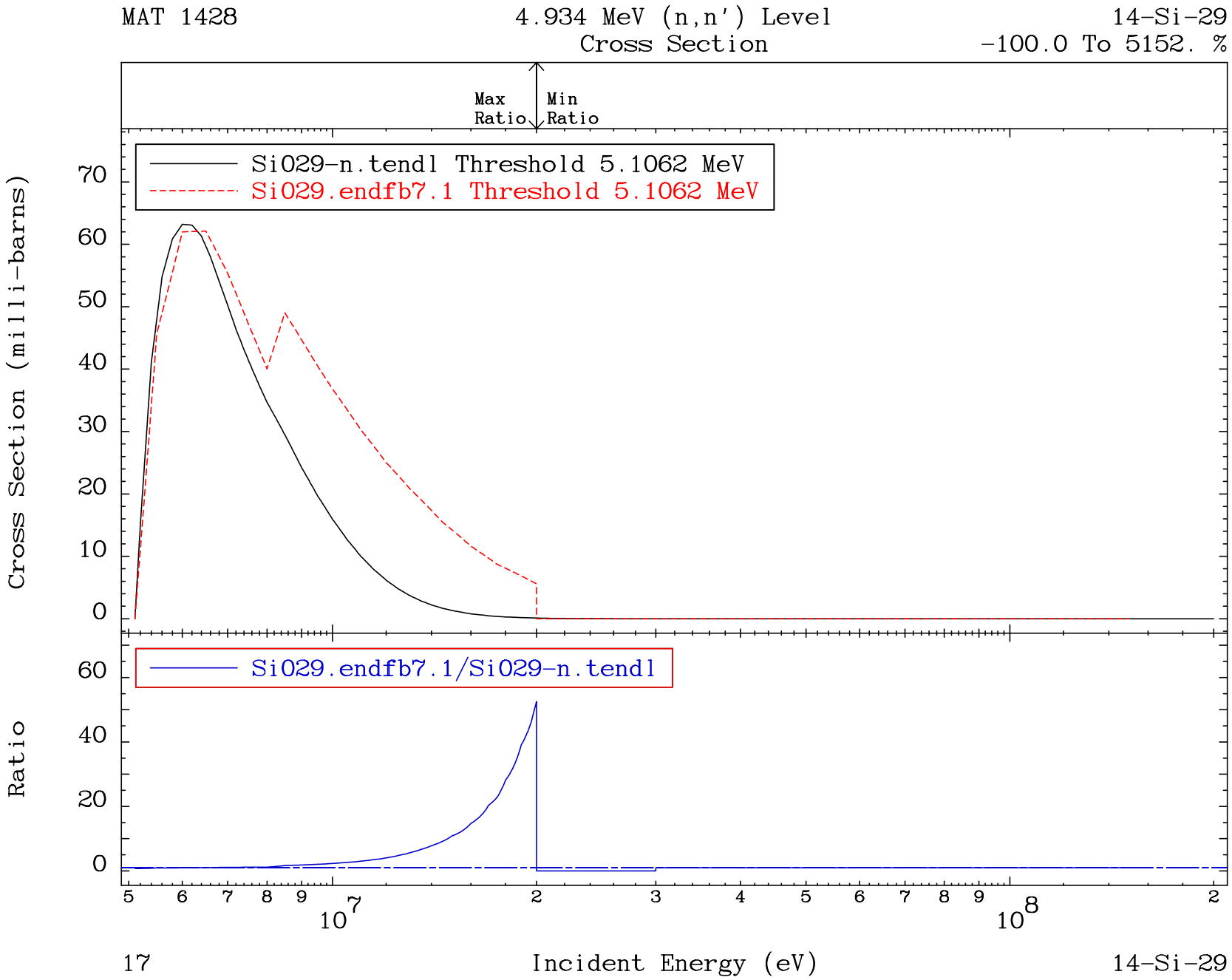

MAT 1428
3.623 MeV (n,n') Level
Cross Section
14-Si-29
-100.0 To 4280. %
Max Ratio
Min Ratio
Si029-n.tendl Threshold 3.7496 MeV
Si029.endfb7.1 Threshold 3.7491 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
Si029.endfb7.1/Si029-n.tendl
Ratio
40
20
0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
12
Incident Energy (eV)
14-Si-29

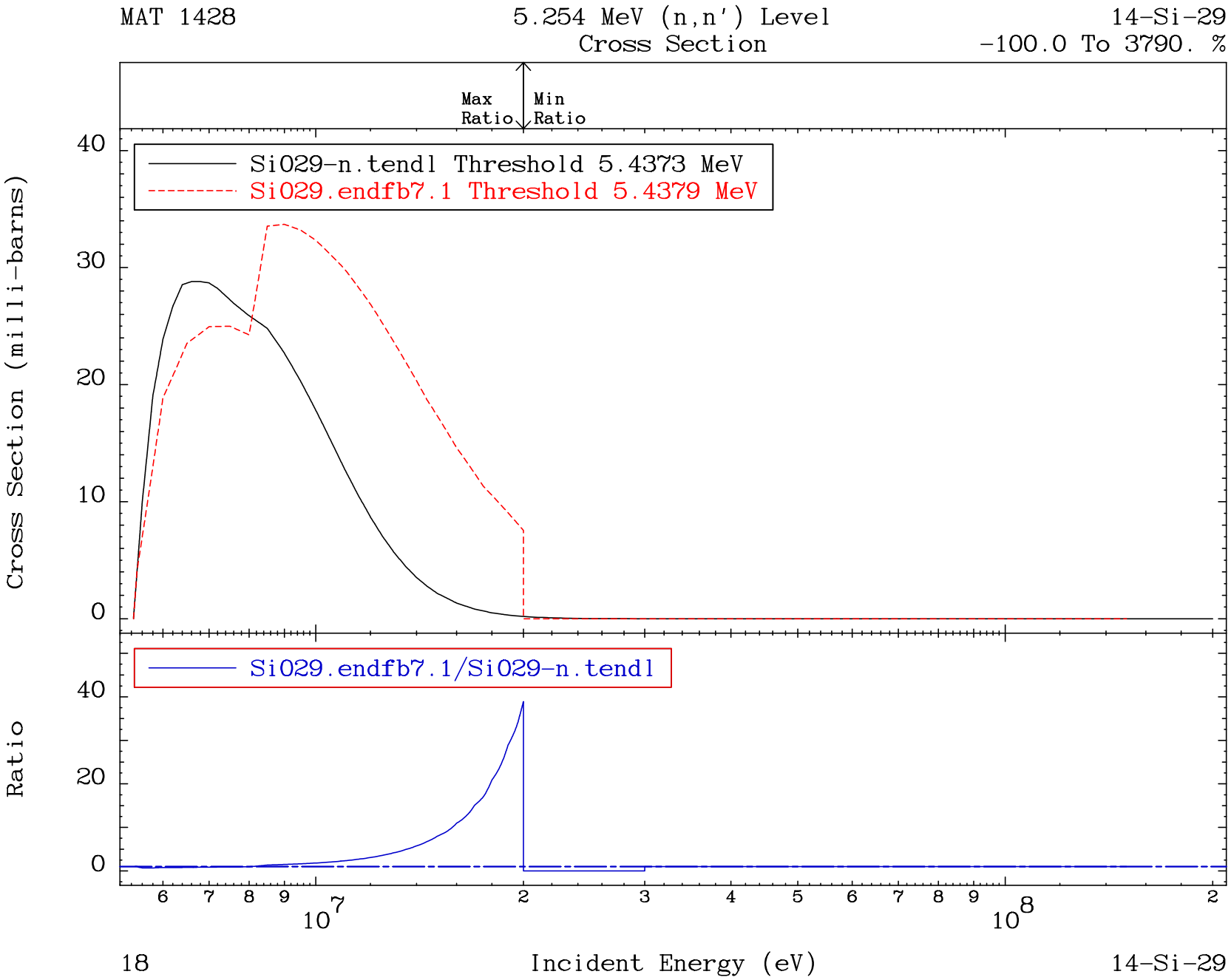

MAT 1428
4.080 MeV (n,n') Level
Cross Section
14-Si-29
-100.0 To 4336. %
Max Ratio
Min Ratio
Si029-n.tendl Threshold 4.2219 MeV
Si029.endfb7.1 Threshold 4.2219 MeV
Cross Section (milli-barns)
80
60
40
20
0
Si029.endfb7.1/Si029-n.tendl
Ratio
40
20
0
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
13
Incident Energy (eV)
14-Si-29

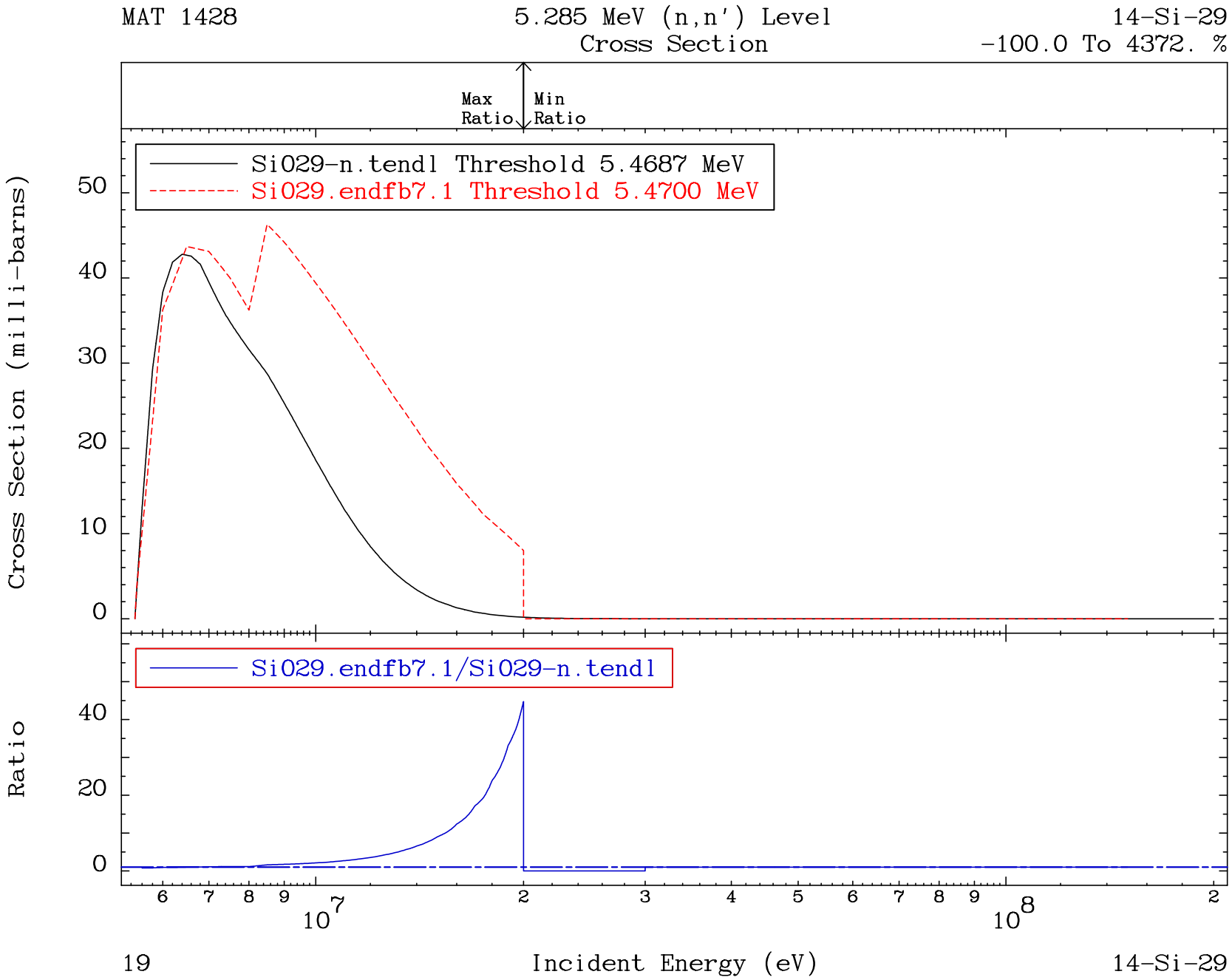

MAT 1428
4.741 MeV (n,n') Level
Cross Section
14-Si-29
-100.0 To 3810. %
Max Ratio
Min Ratio
Si029-n.tendl Threshold 4.9061 MeV
Si029.endfb7.1 Threshold 4.9061 MeV
Cross Section (milli-barns)
40
30
20
10
0
Si029.endfb7.1/Si029-n.tendl
Ratio
40
20
0
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
14
Incident Energy (eV)
14-Si-29

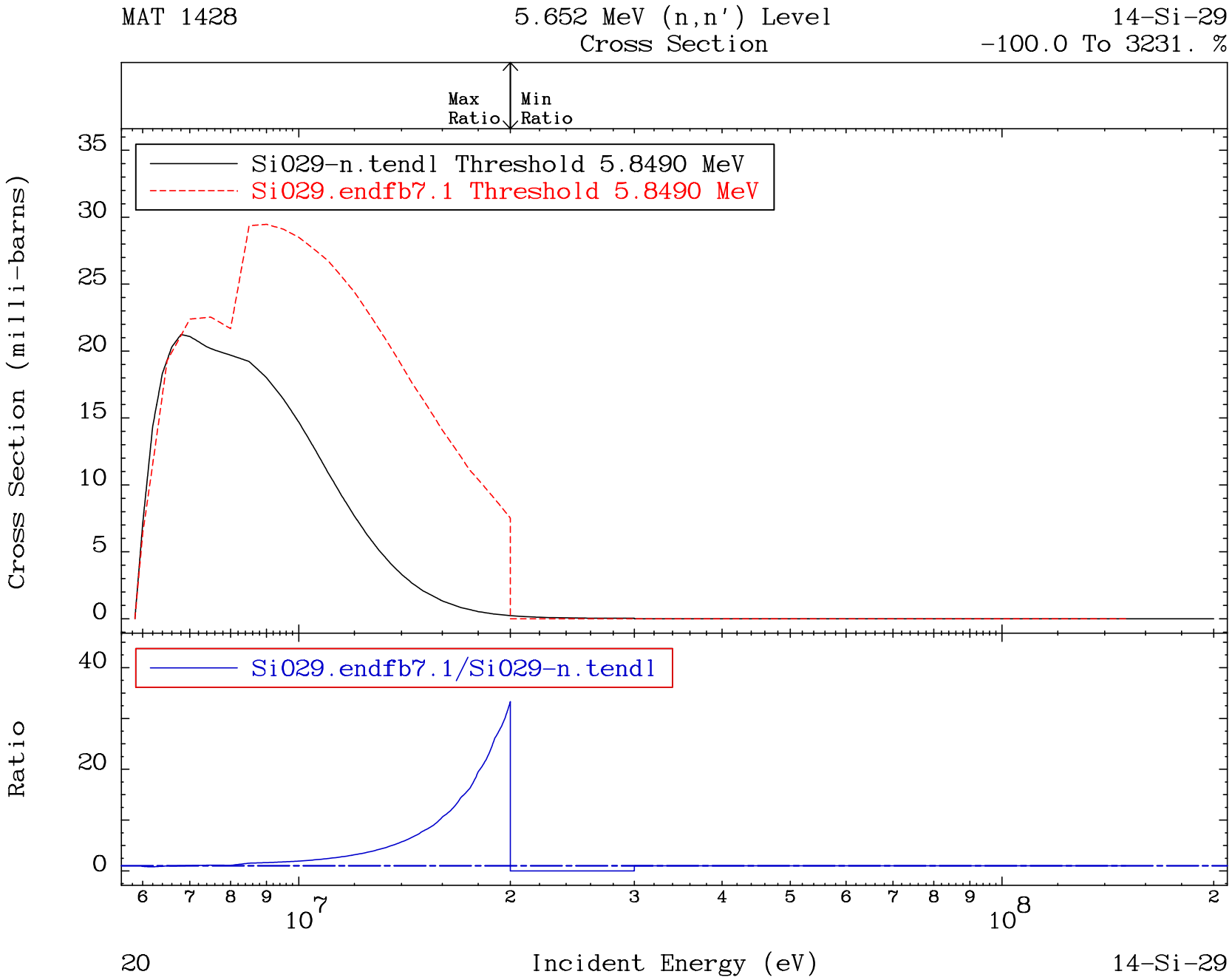

MAT 1428
4.840 MeV (n,n') Level
Cross Section
14-Si-29
-100.0 To 5451. %
Max Ratio
Min Ratio
Si029-n.tendl Threshold 5.0089 MeV
Si029.endfb7.1 Threshold 5.0089 MeV
Cross Section (milli-barns)
0
10
20
30
40
Si029.endfb7.1/Si029-n.tendl
Ratio
0
20
40
60
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
15
Incident Energy (eV)
14-Si-29

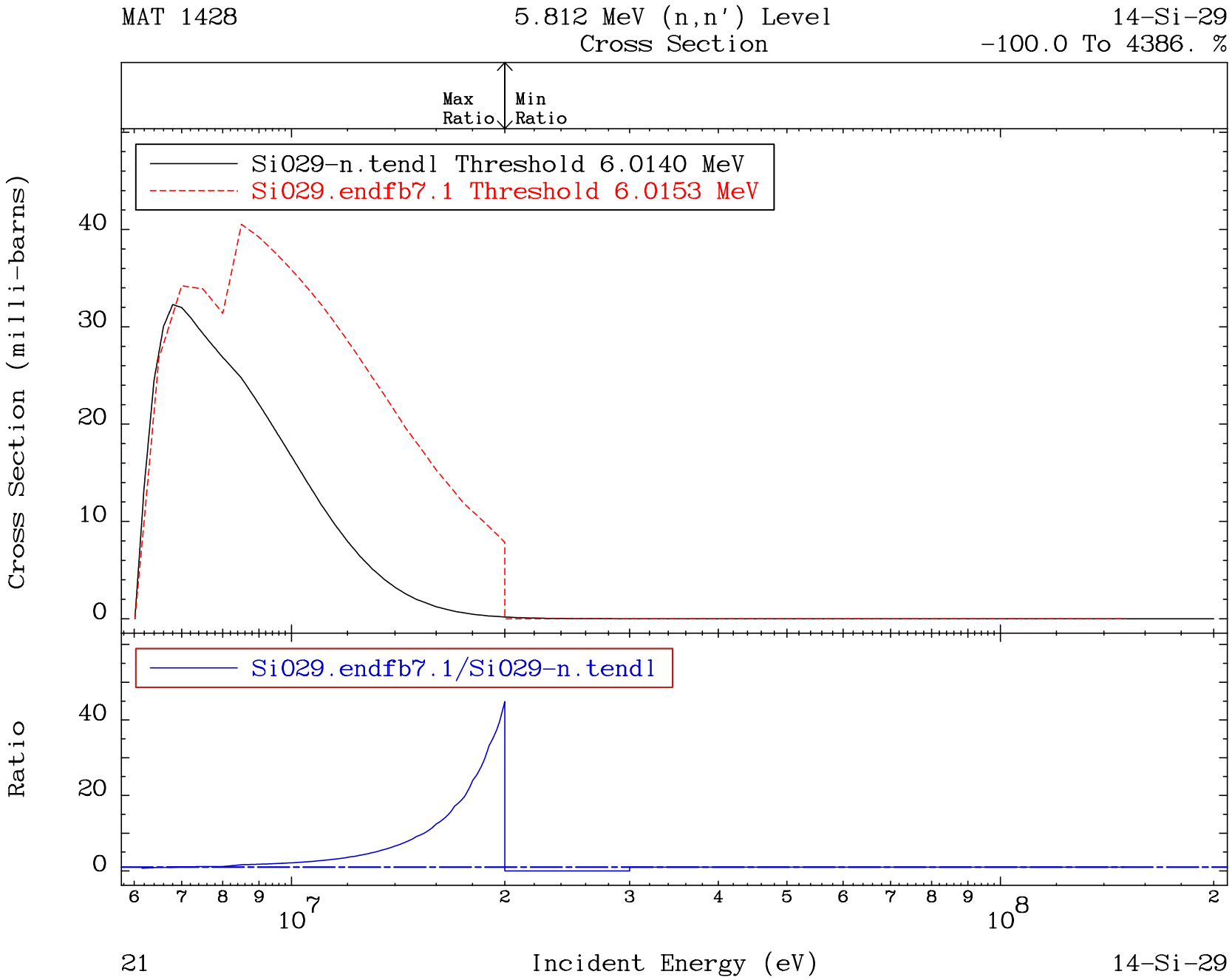

MAT 1428
4.895 MeV (n,n') Level
Cross Section
14-Si-29
-100.0 To 4814. %
Max Ratio
Min Ratio
Si029-n.tendl Threshold 5.0656 MeV
Si029.endfb7.1 Threshold 5.0656 MeV
Cross Section (milli-barns)
Si029.endfb7.1/Si029-n.tendl
Ratio
Incident Energy (eV)
16
14-Si-29

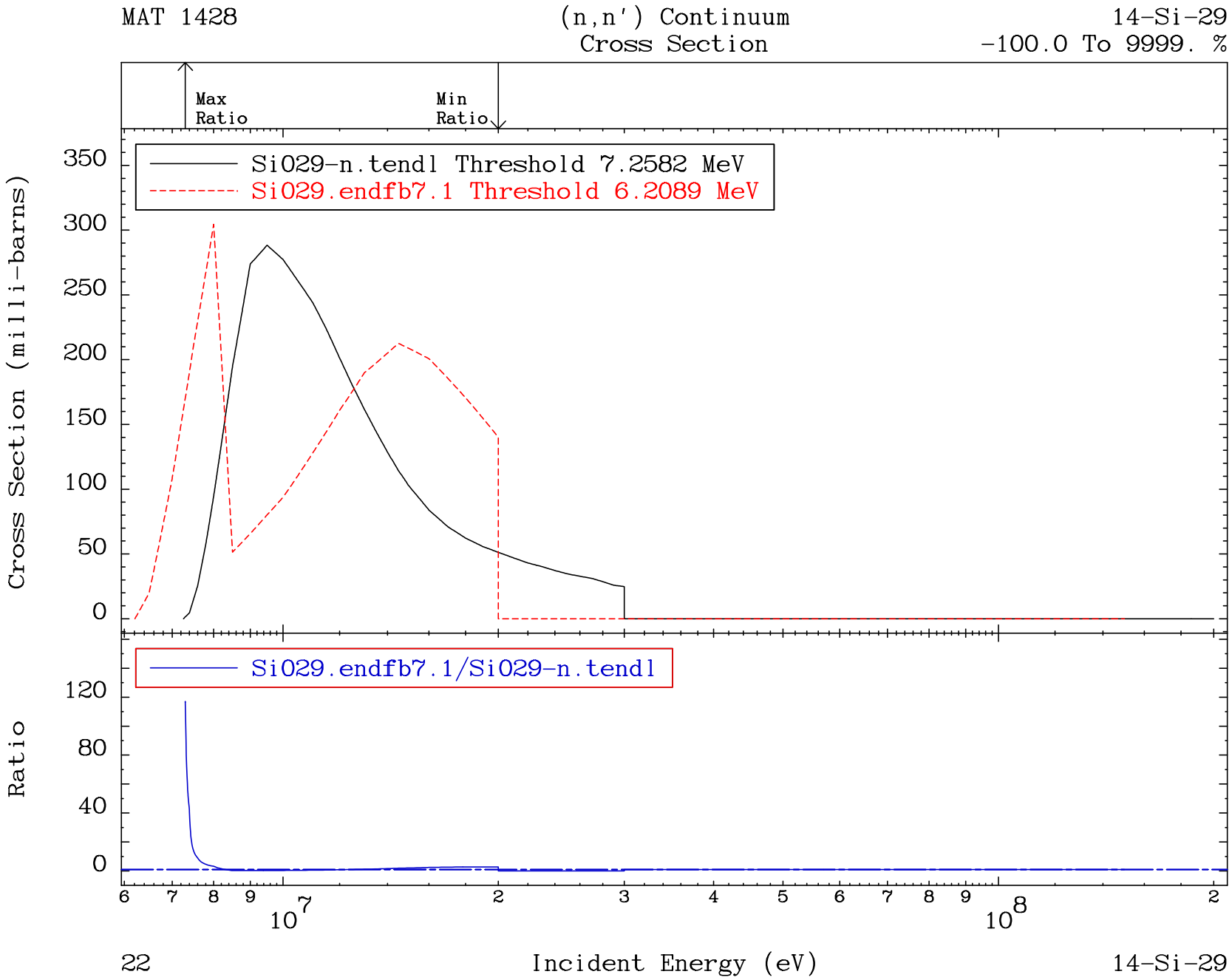

MAT 1428
4.934 MeV (n,n') Level
Cross Section
14-Si-29
-100.0 To 5152. %
Max Ratio
Min Ratio
Si029-n.tendl Threshold 5.1062 MeV
Si029.endfb7.1 Threshold 5.1062 MeV
Cross Section (milli-barns)
Si029.endfb7.1/Si029-n.tendl
Ratio
Incident Energy (eV)
17
14-Si-29

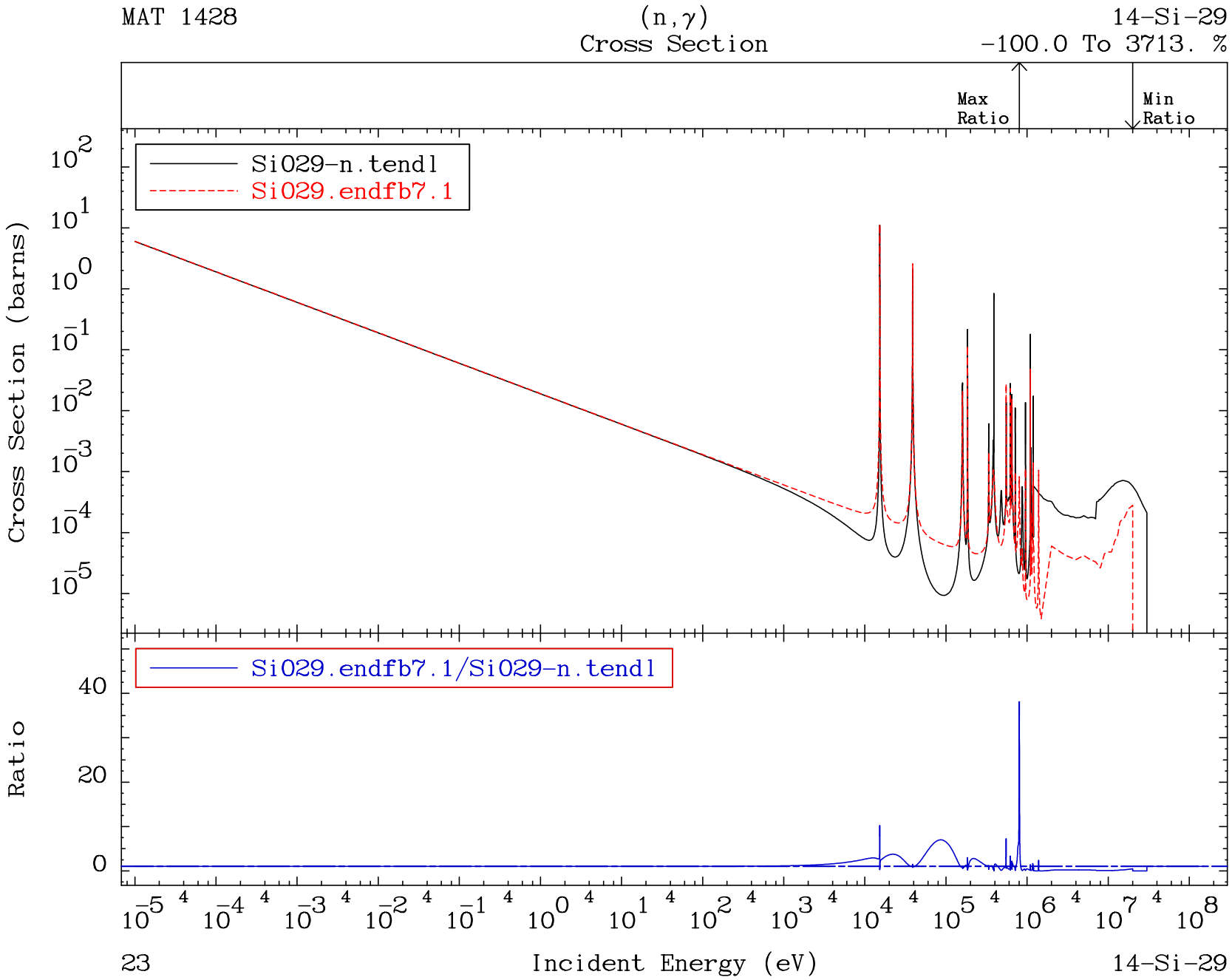

MAT 1428
5.254 MeV (n,n') Level
Cross Section
14-Si-29
-100.0 To 3790. %
Max Ratio
Min Ratio
Si029-n.tendl Threshold 5.4373 MeV
Si029.endfb7.1 Threshold 5.4379 MeV
Cross Section (milli-barns)
Si029.endfb7.1/Si029-n.tendl
Ratio
Incident Energy (eV)
18
14-Si-29

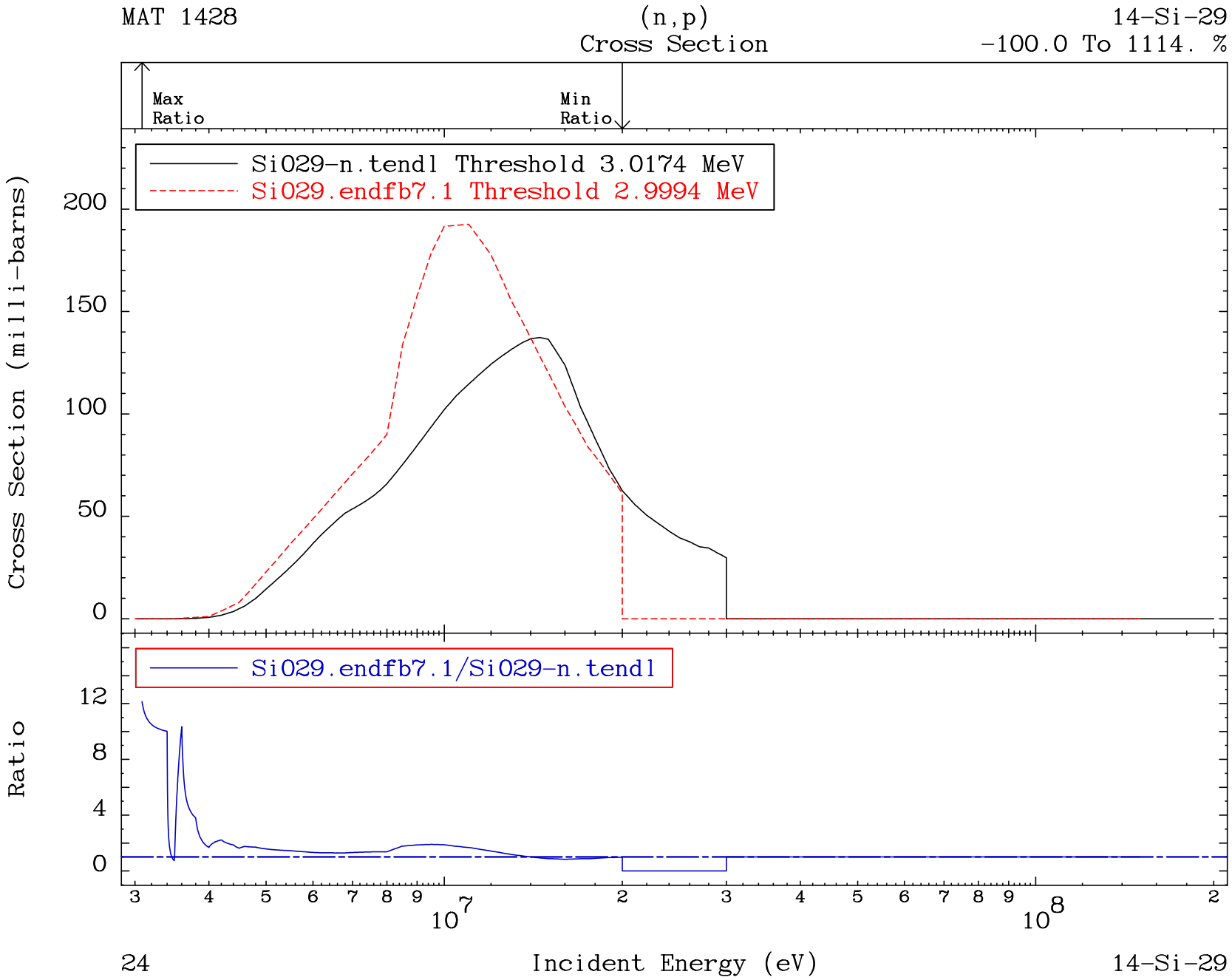

MAT 1428
5.285 MeV (n,n') Level
Cross Section
14-Si-29
-100.0 To 4372. %
Max Ratio
Min Ratio
Si029-n.tendl Threshold 5.4687 MeV
Si029.endfb7.1 Threshold 5.4700 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
Si029.endfb7.1/Si029-n.tendl
Ratio
40
20
0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
19
Incident Energy (eV)
14-Si-29

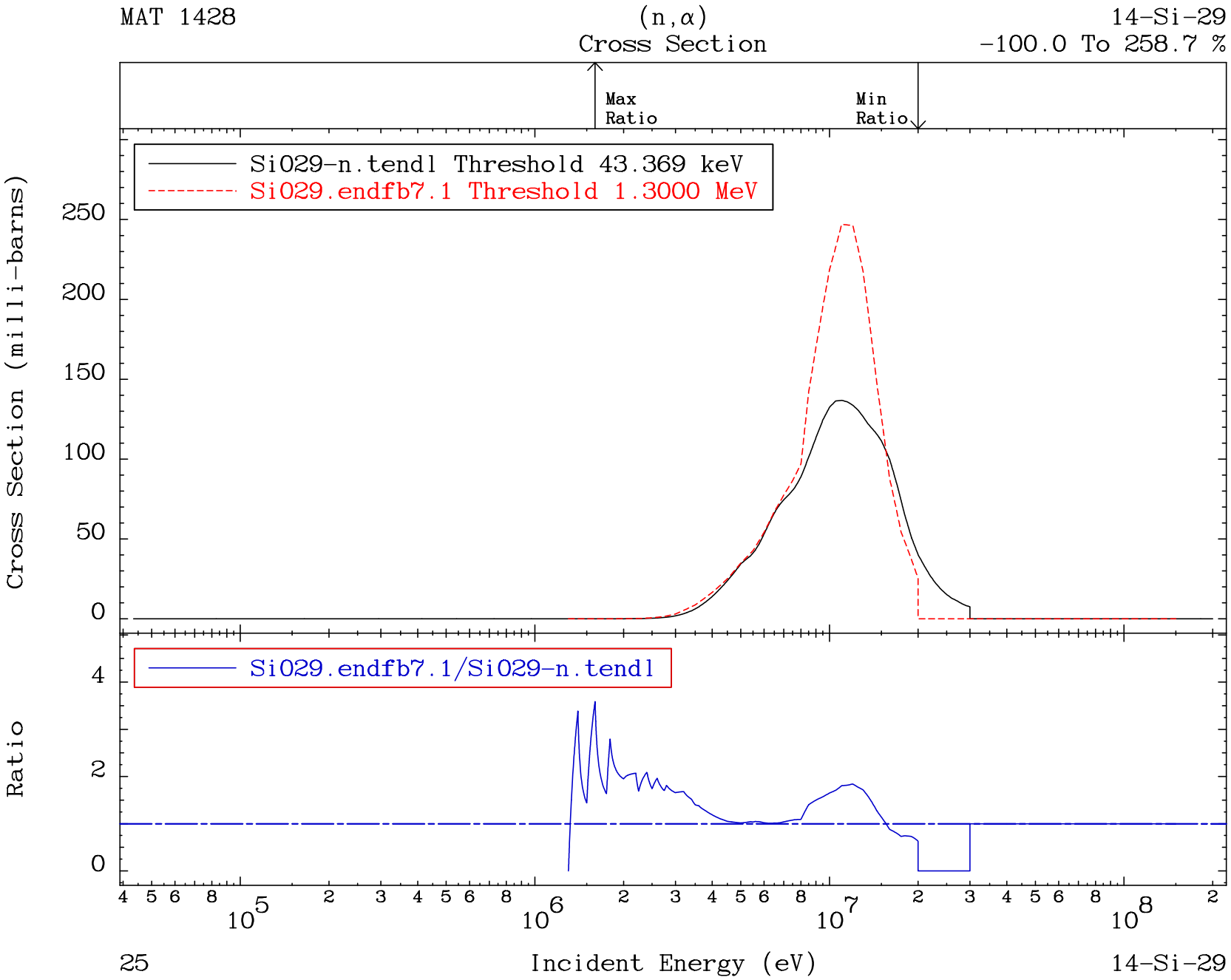

MAT 1428
5.652 MeV (n,n') Level
Cross Section
14-Si-29
-100.0 To 3231. %
Max Ratio
Min Ratio
Si029-n.tendl Threshold 5.8490 MeV
Si029.endfb7.1 Threshold 5.8490 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
Si029.endfb7.1/Si029-n.tendl
Ratio
40
20
0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
20
Incident Energy (eV)
14-Si-29

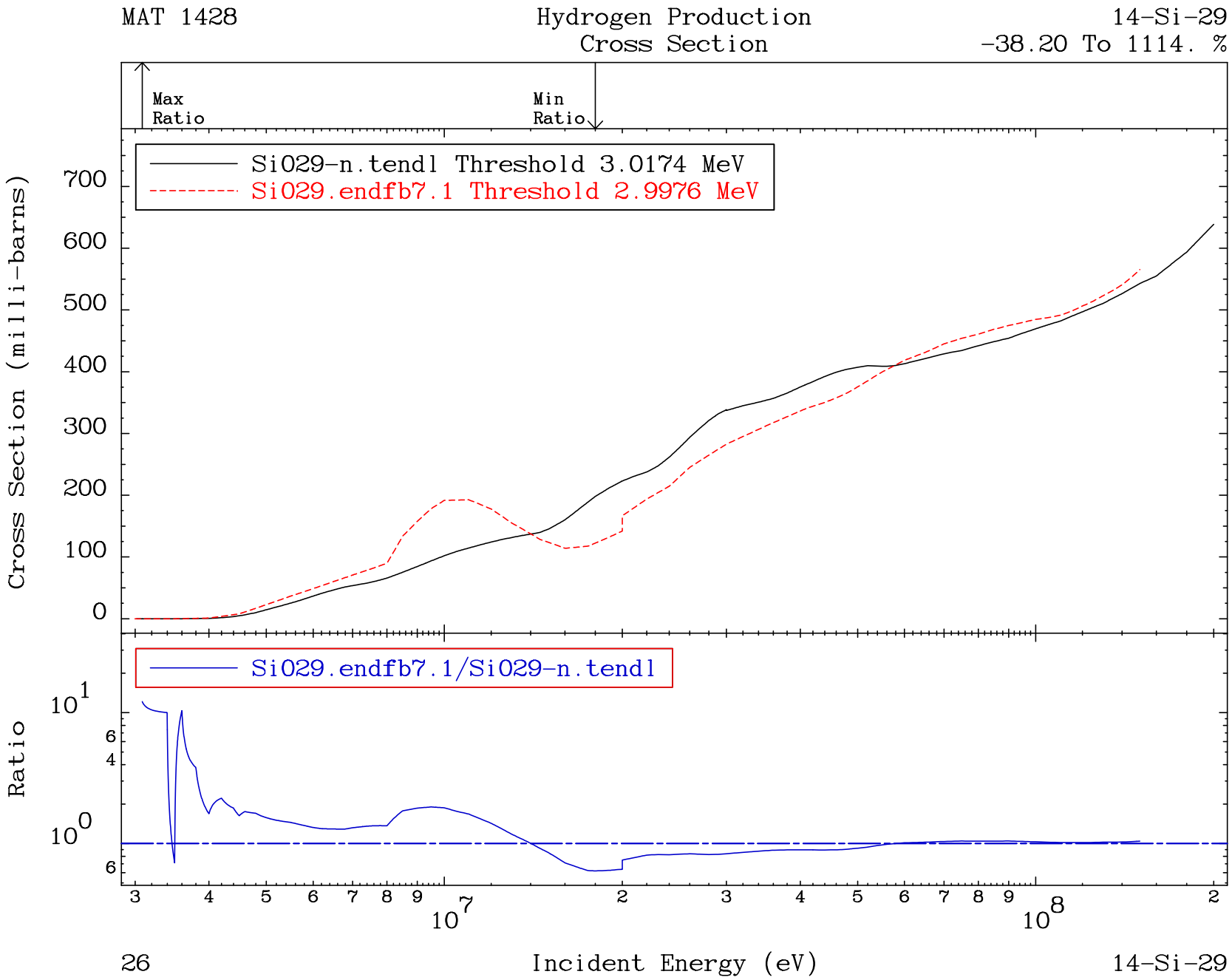

MAT 1428
5.812 MeV (n,n') Level
Cross Section
14-Si-29
-100.0 To 4386. %
Max Ratio
Min Ratio
Si029-n.tendl Threshold 6.0140 MeV
Si029.endfb7.1 Threshold 6.0153 MeV
Cross Section (milli-barns)
40
30
20
10
0
Si029.endfb7.1/Si029-n.tendl
Ratio
40
20
0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
21
Incident Energy (eV)
14-Si-29

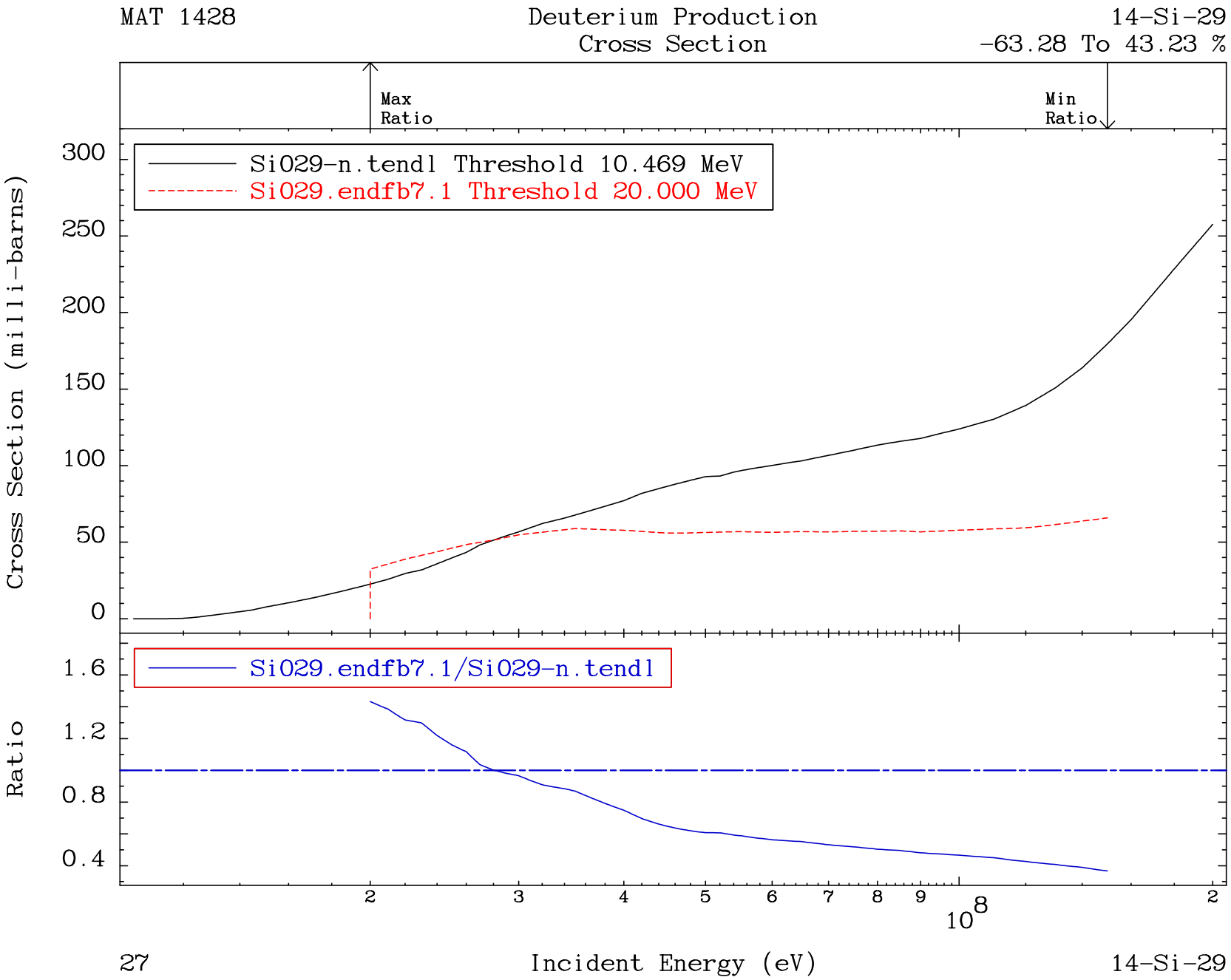

MAT 1428
(n,n') Continuum
Cross Section
14-Si-29
-100.0 To 9999. %
Max Ratio
Min Ratio
Si029-n.tendl Threshold 7.2582 MeV
Si029.endfb7.1 Threshold 6.2089 MeV
Cross Section (milli-barns)
350
300
250
200
150
100
50
0
Si029.endfb7.1/Si029-n.tendl
Ratio
120
80
40
0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
22
Incident Energy (eV)
14-Si-29

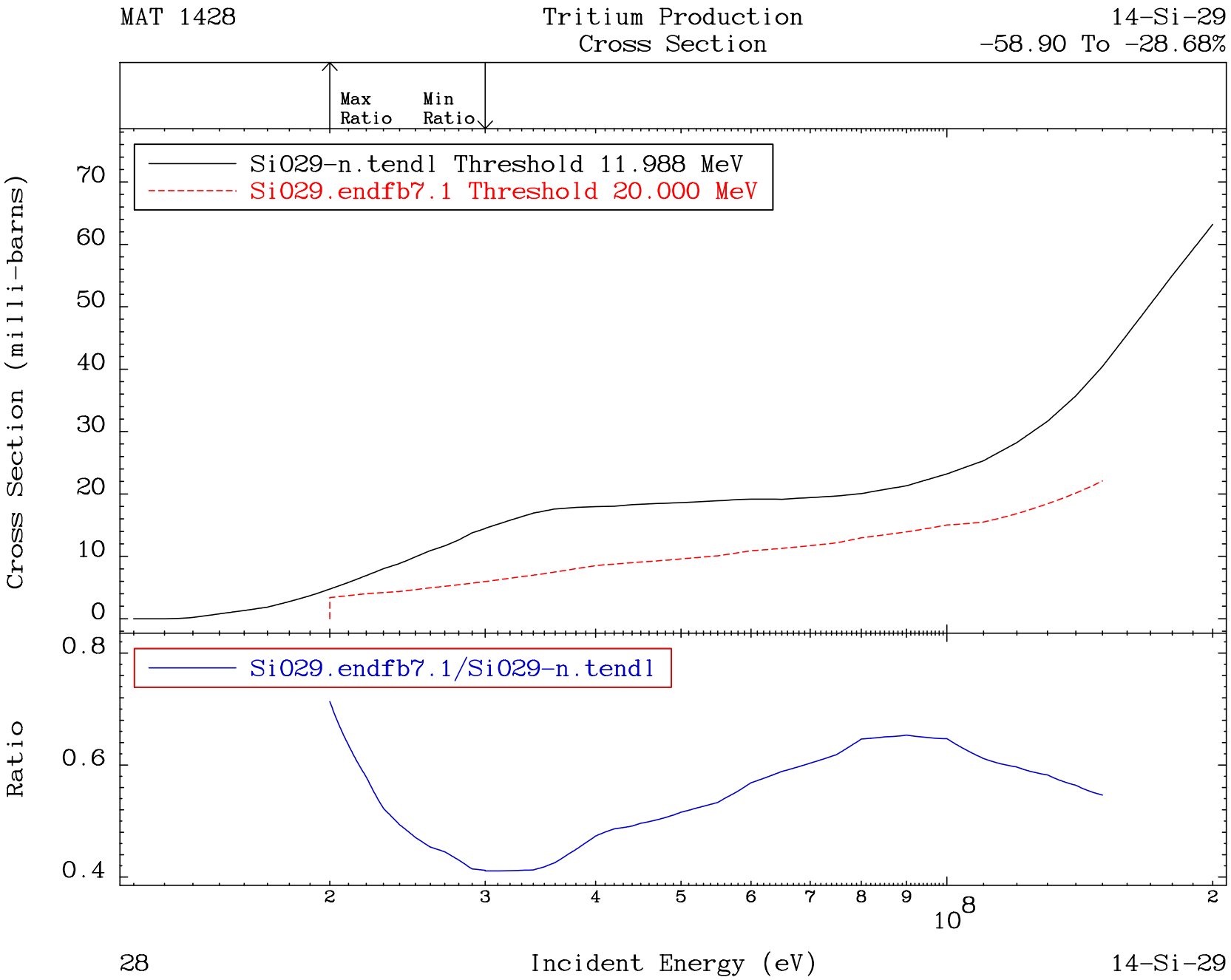

MAT 1428
(n,γ)
Cross Section
14-Si-29
-100.0 To 3713. %
Max Ratio
Min Ratio
Si029-n.tendl
Si029.endfb7.1
Cross Section (barns)
Si029.endfb7.1/Si029-n.tendl
Ratio
Incident Energy (eV)
23
14-Si-29

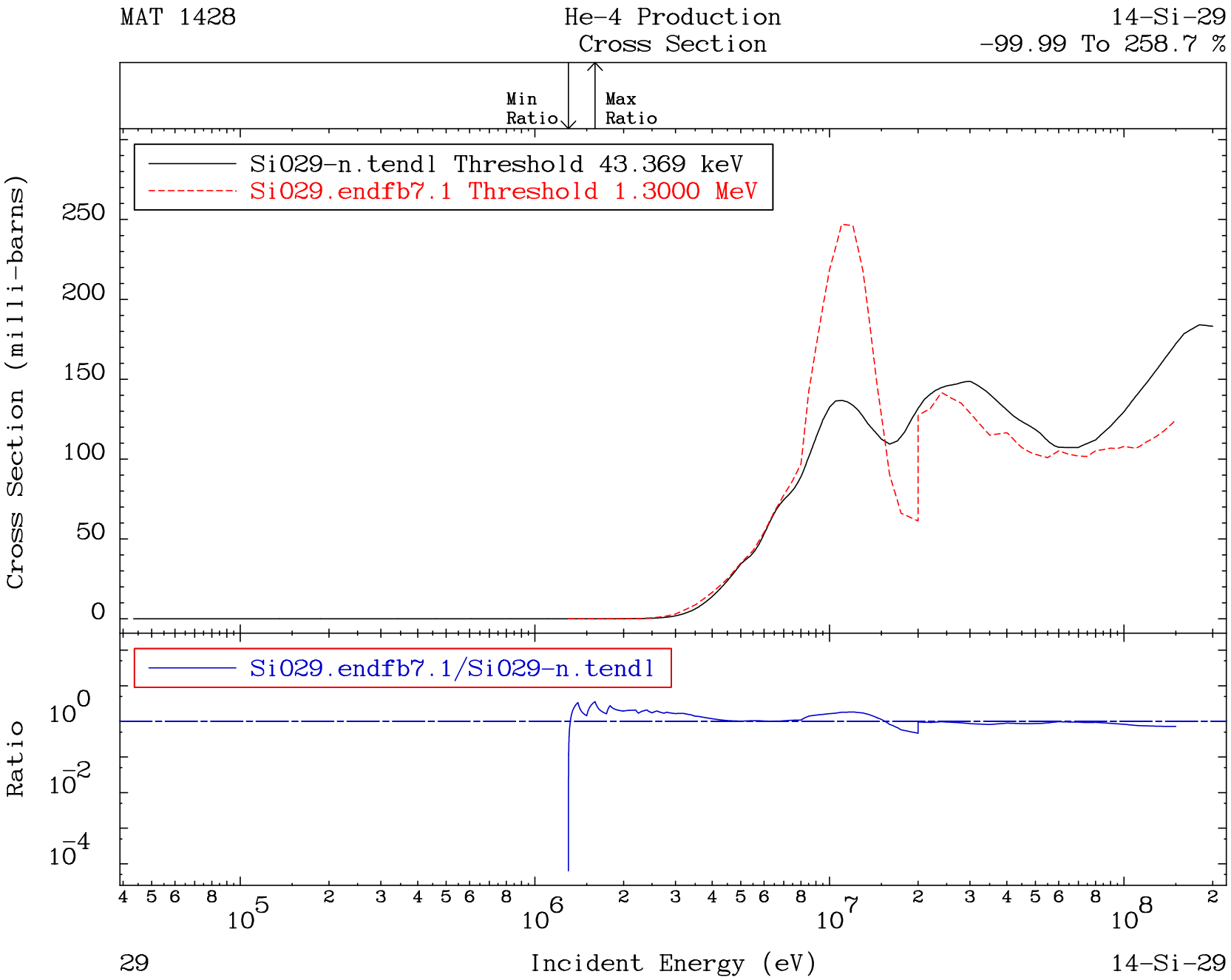

MAT 1428
(n,p)
Cross Section
14-Si-29
-100.0 To 1114. %
Max Ratio
Min Ratio
Si029-n.tendl Threshold 3.0174 MeV
Si029.endfb7.1 Threshold 2.9994 MeV
Cross Section (milli-barns)
200
150
100
50
0
Si029.endfb7.1/Si029-n.tendl
Ratio
12
8
4
0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
24
Incident Energy (eV)
14-Si-29

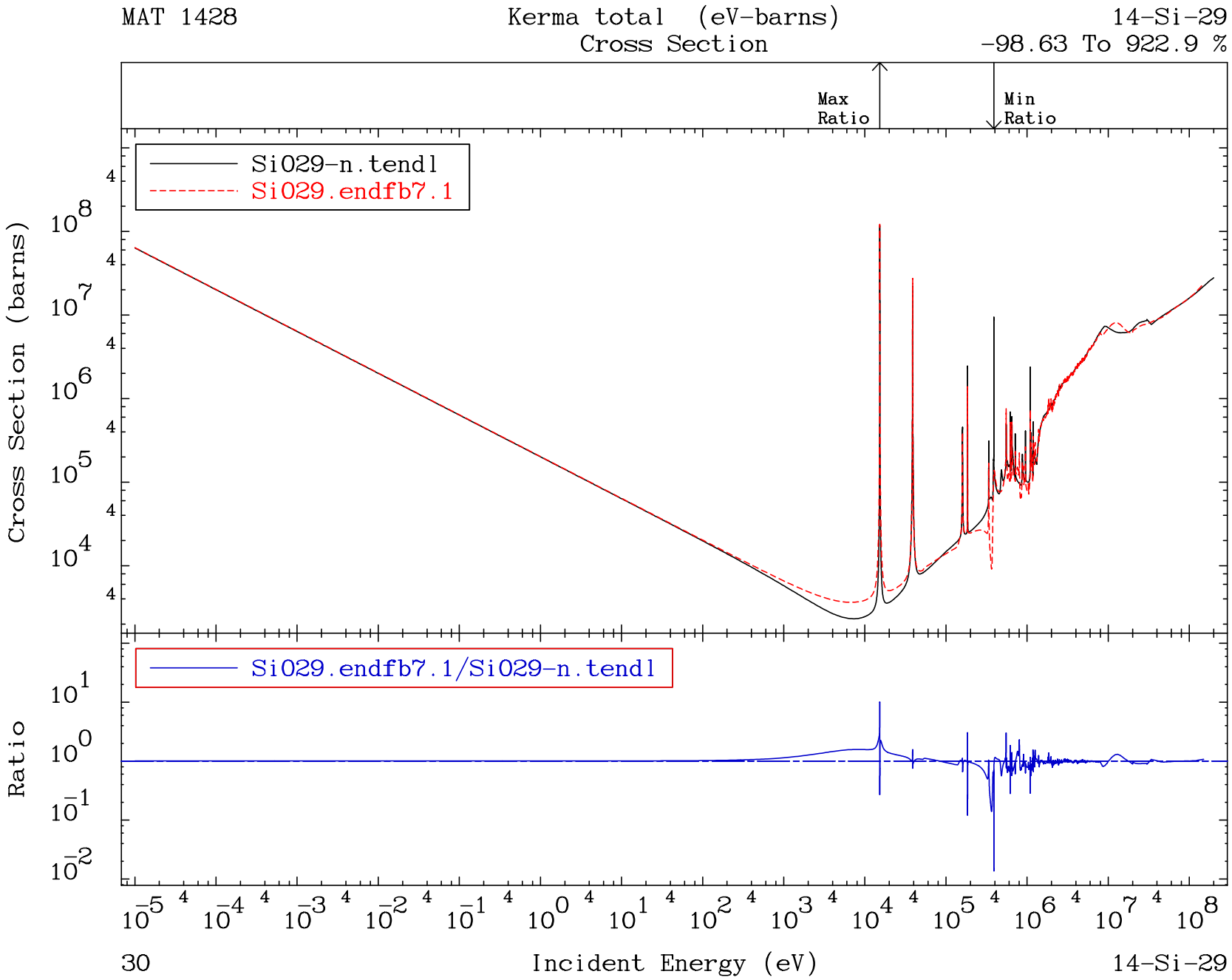

MAT 1428
(n,α)
Cross Section
14-Si-29
-100.0 To 258.7 %
Max Ratio
Min Ratio
Si029-n.tendl Threshold 43.369 keV
Si029.endfb7.1 Threshold 1.3000 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
Si029.endfb7.1/Si029-n.tendl
Ratio
4
2
0
4 5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
25
Incident Energy (eV)
14-Si-29

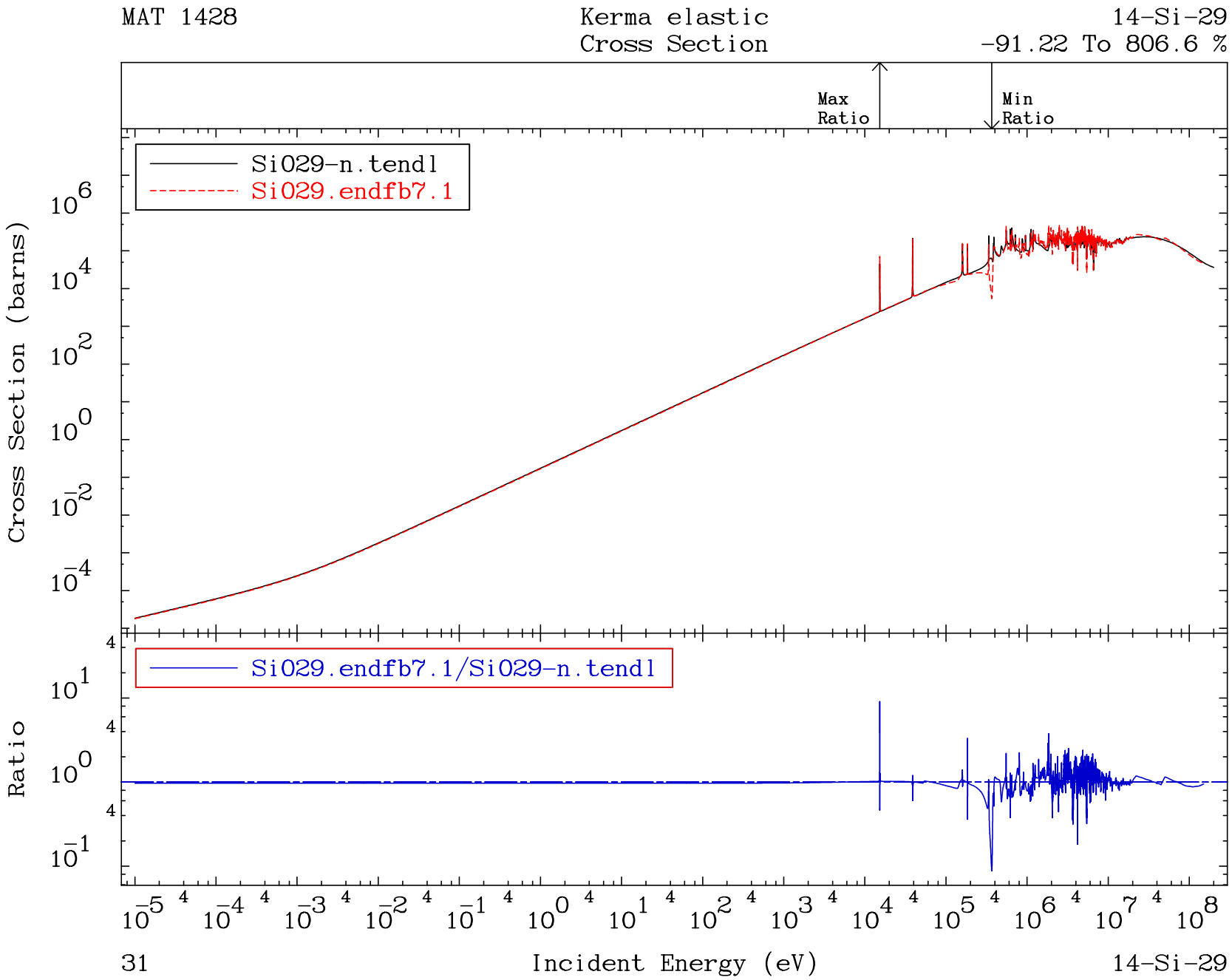

MAT 1428
Hydrogen Production
Cross Section
14-Si-29
-38.20 To 1114. %
Max Ratio
Min Ratio
Si029-n.tendl Threshold 3.0174 MeV
Si029.endfb7.1 Threshold 2.9976 MeV
Cross Section (milli-barns)
700
600
500
400
300
200
100
0
Si029.endfb7.1/Si029-n.tendl
Ratio
10^1
6
4
10^0
6
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
26
Incident Energy (eV)
14-Si-29

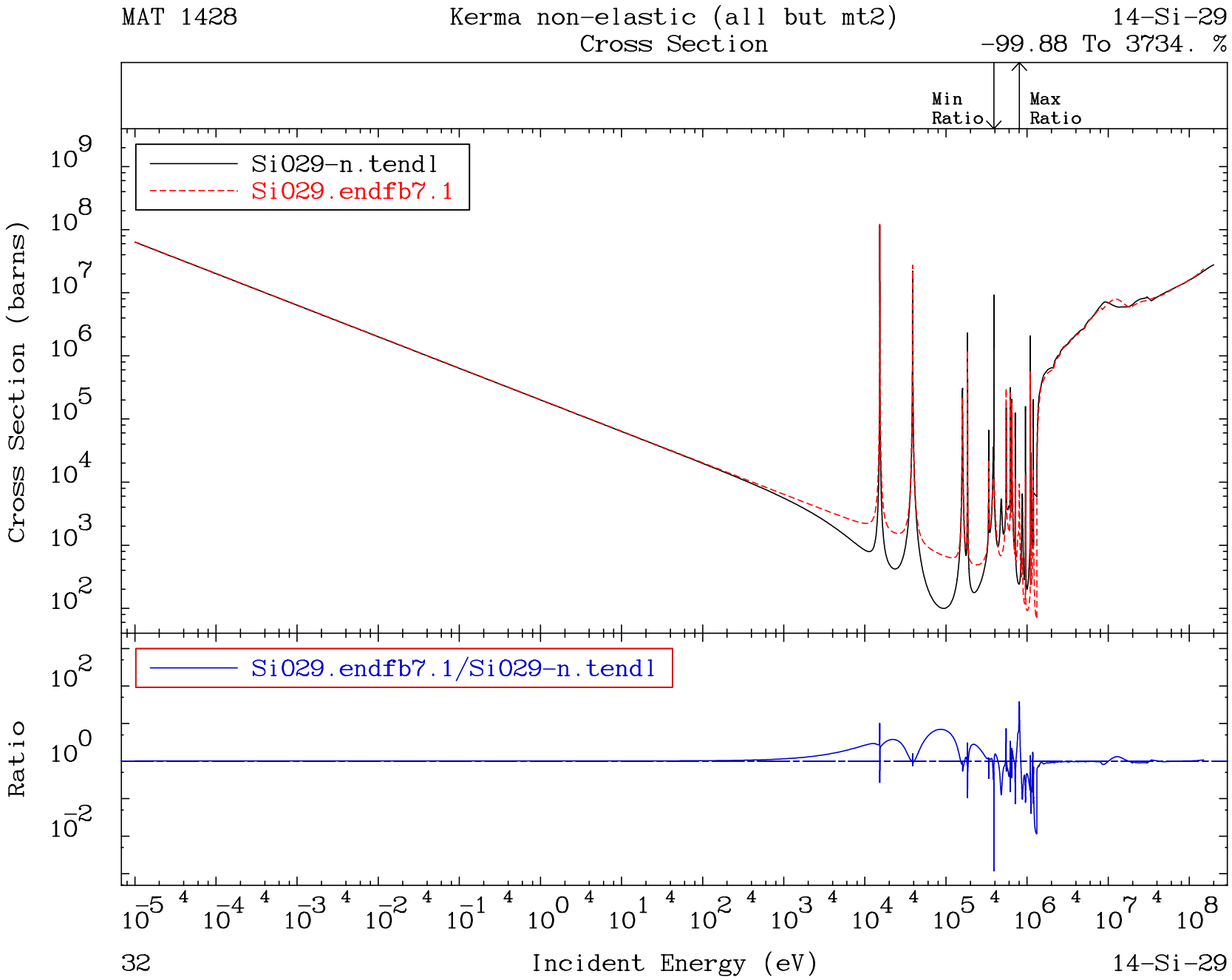

MAT 1428
Deuterium Production
Cross Section
14-Si-29
-63.28 To 43.23 %
Max Ratio
Min Ratio
Si029-n.tendl Threshold 10.469 MeV
Si029.endfb7.1 Threshold 20.000 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
Si029.endfb7.1/Si029-n.tendl
Ratio
1.6
1.2
0.8
0.4
2
3
4
5
6
7
8
9
10^8
2
27
Incident Energy (eV)
14-Si-29

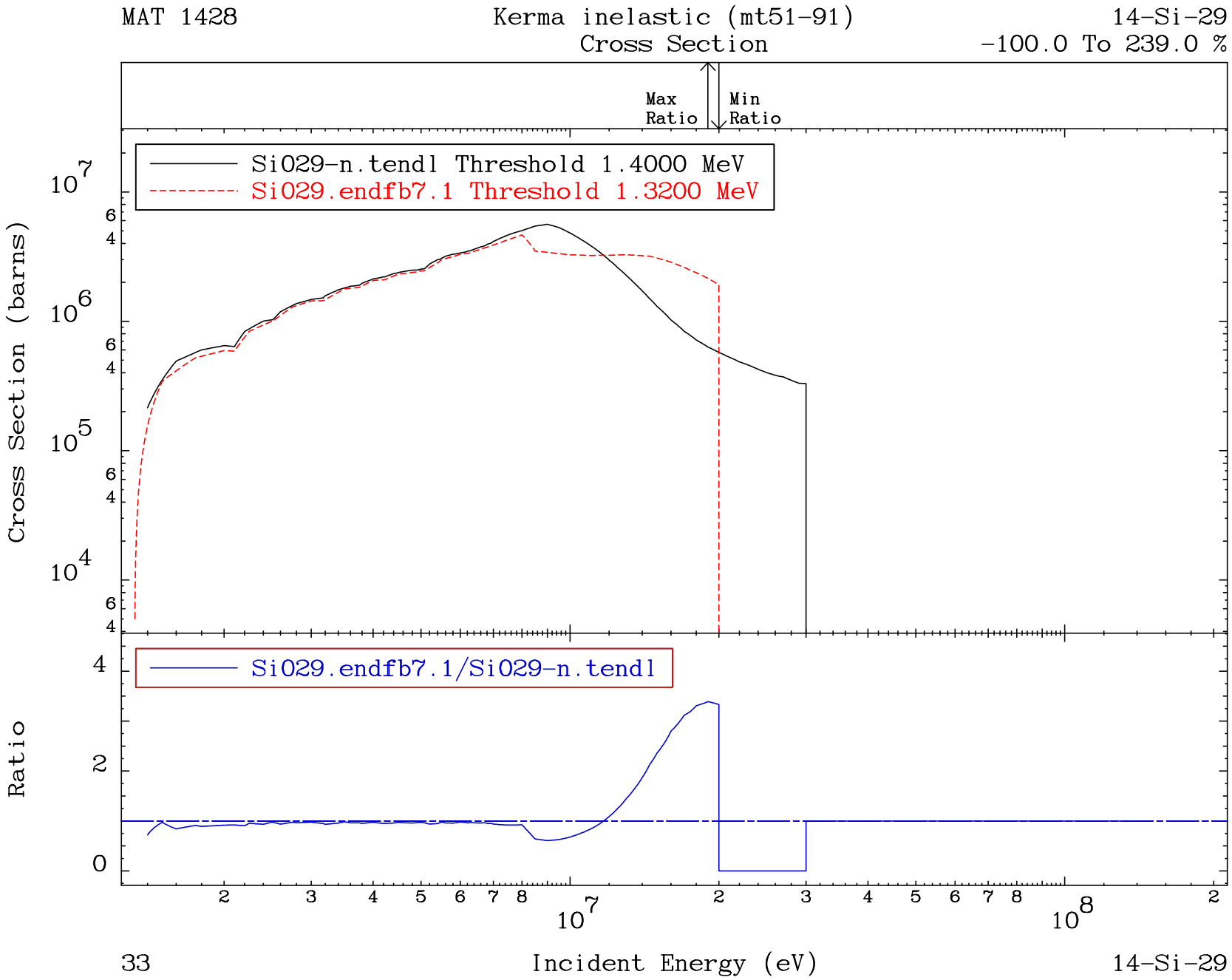

MAT 1428
Tritium Production
Cross Section
14-Si-29
-58.90 To -28.68%
Max Ratio
Min Ratio
Si029-n.tendl Threshold 11.988 MeV
Si029.endfb7.1 Threshold 20.000 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
Si029.endfb7.1/Si029-n.tendl
Ratio
0.8
0.6
0.4
2
3
4
5
6
7
8
9
10^8
2
28
Incident Energy (eV)
14-Si-29

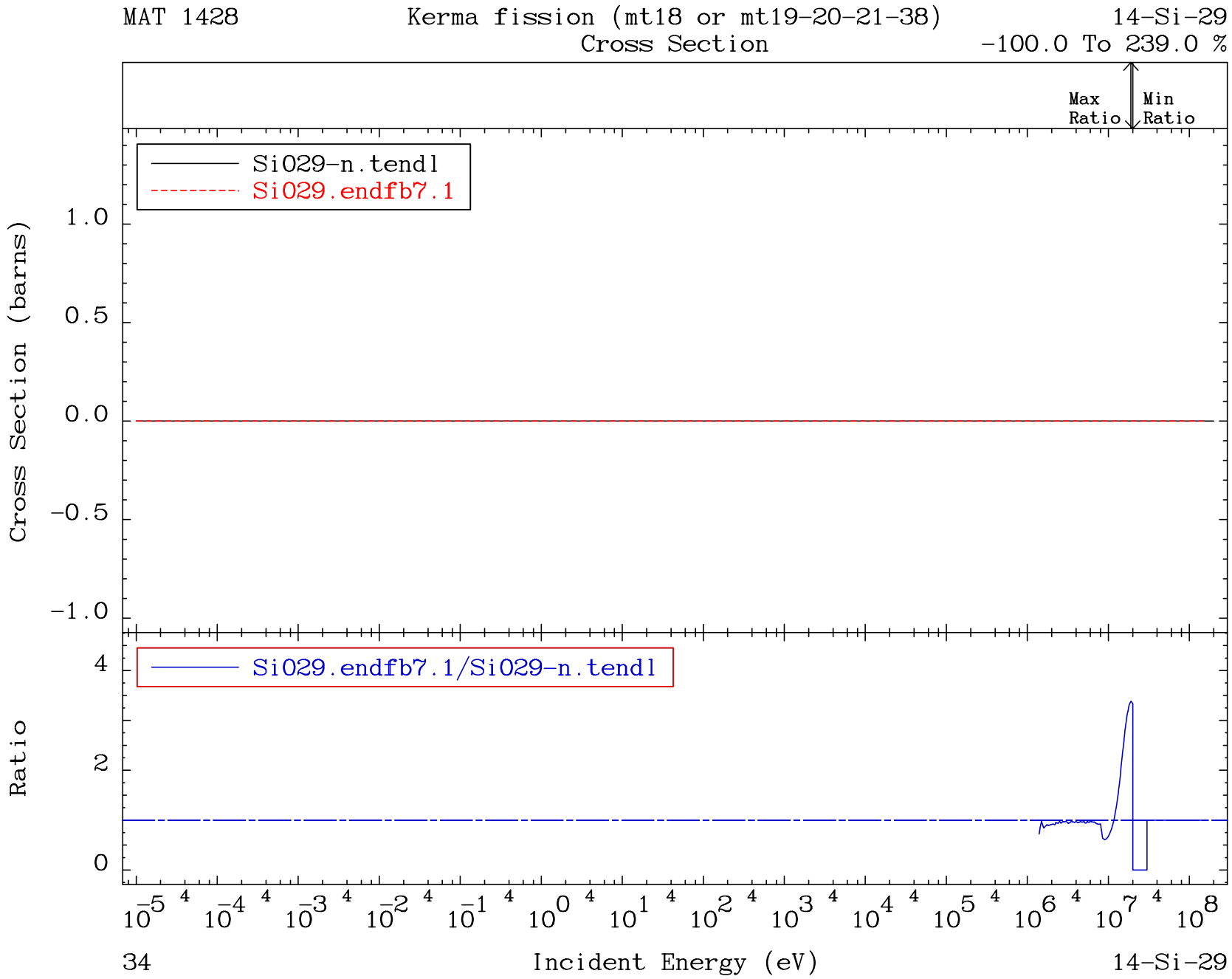

MAT 1428
He-4 Production
Cross Section
14-Si-29
-99.99 To 258.7 %
Min Ratio
Max Ratio
Si029-n.tendl Threshold 43.369 keV
Si029.endfb7.1 Threshold 1.3000 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
Si029.endfb7.1/Si029-n.tendl
Ratio
10^0
10^-2
10^-4
4 5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
29
Incident Energy (eV)
14-Si-29

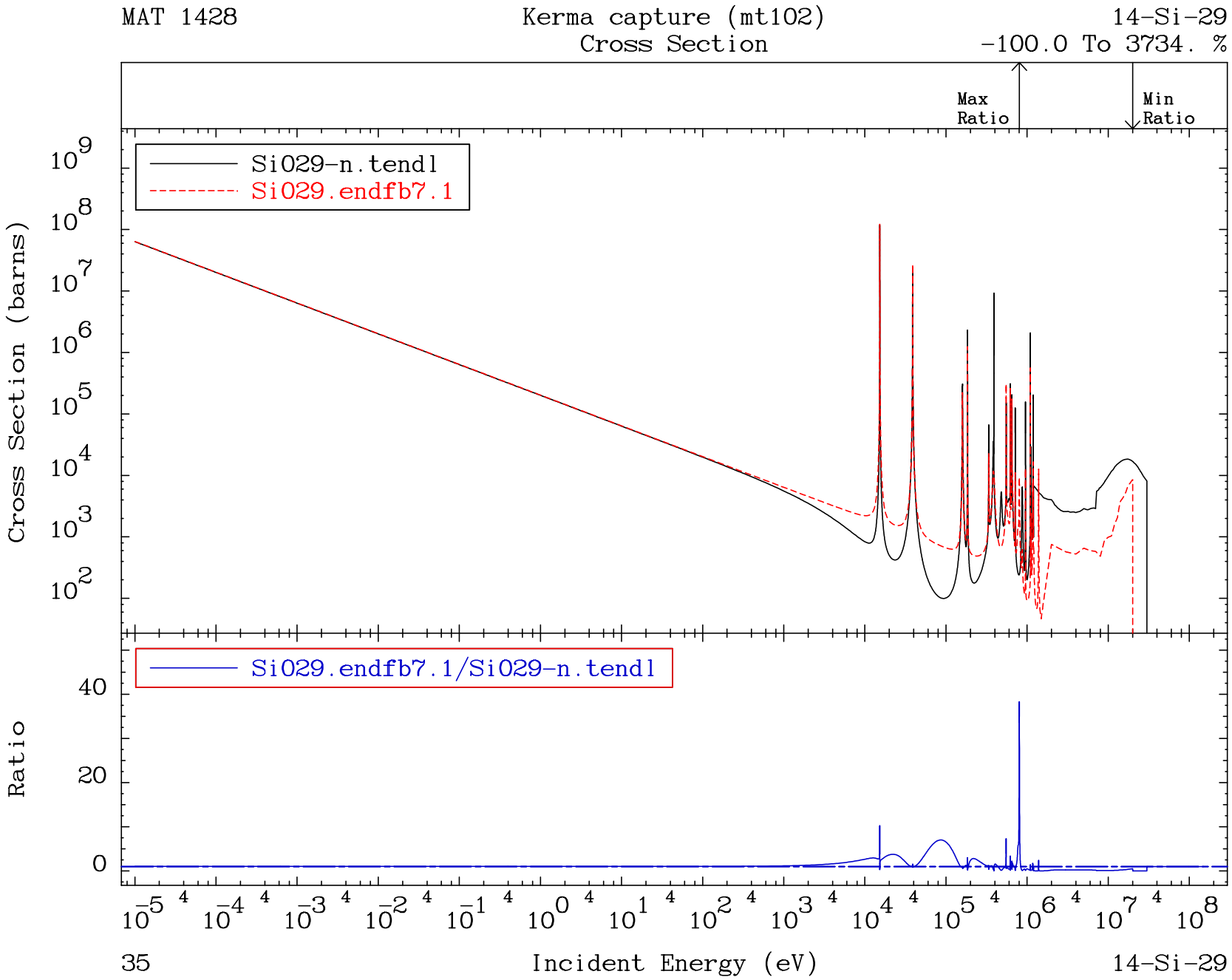

MAT 1428
Kerma total (eV-barns)
Cross Section
14-Si-29
-98.63 To 922.9 %
Max Ratio
Min Ratio
Si029-n.tendl
Si029.endfb7.1
Cross Section (barns)
Si029.endfb7.1/Si029-n.tendl
Ratio
Incident Energy (eV)
30
14-Si-29

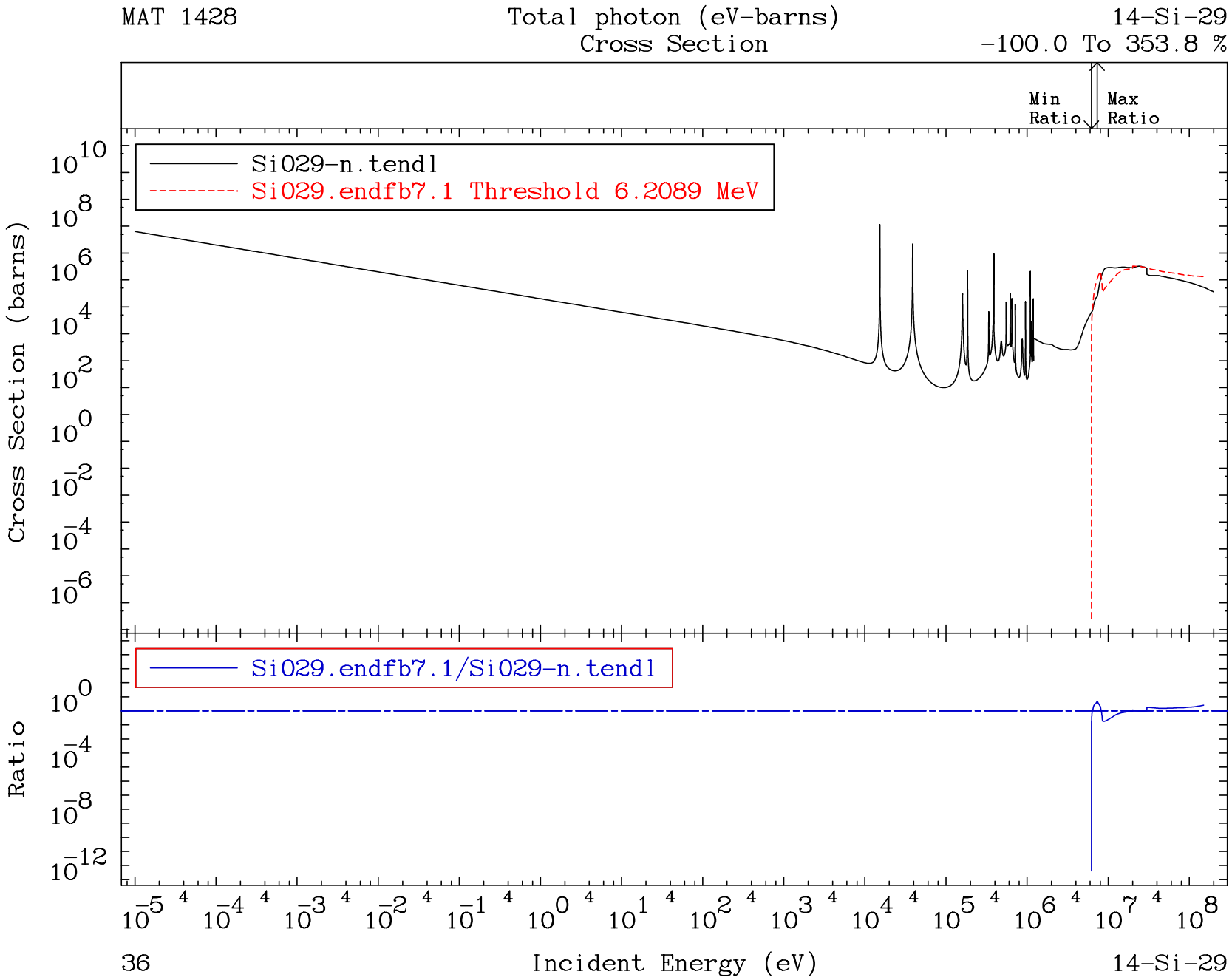

MAT 1428
Kerma elastic
Cross Section
14-Si-29
-91.22 To 806.6 %
Max Ratio
Min Ratio
Si029-n.tendl
Si029.endfb7.1
Cross Section (barns)
Si029.endfb7.1/Si029-n.tendl
Ratio
Incident Energy (eV)
31
14-Si-29

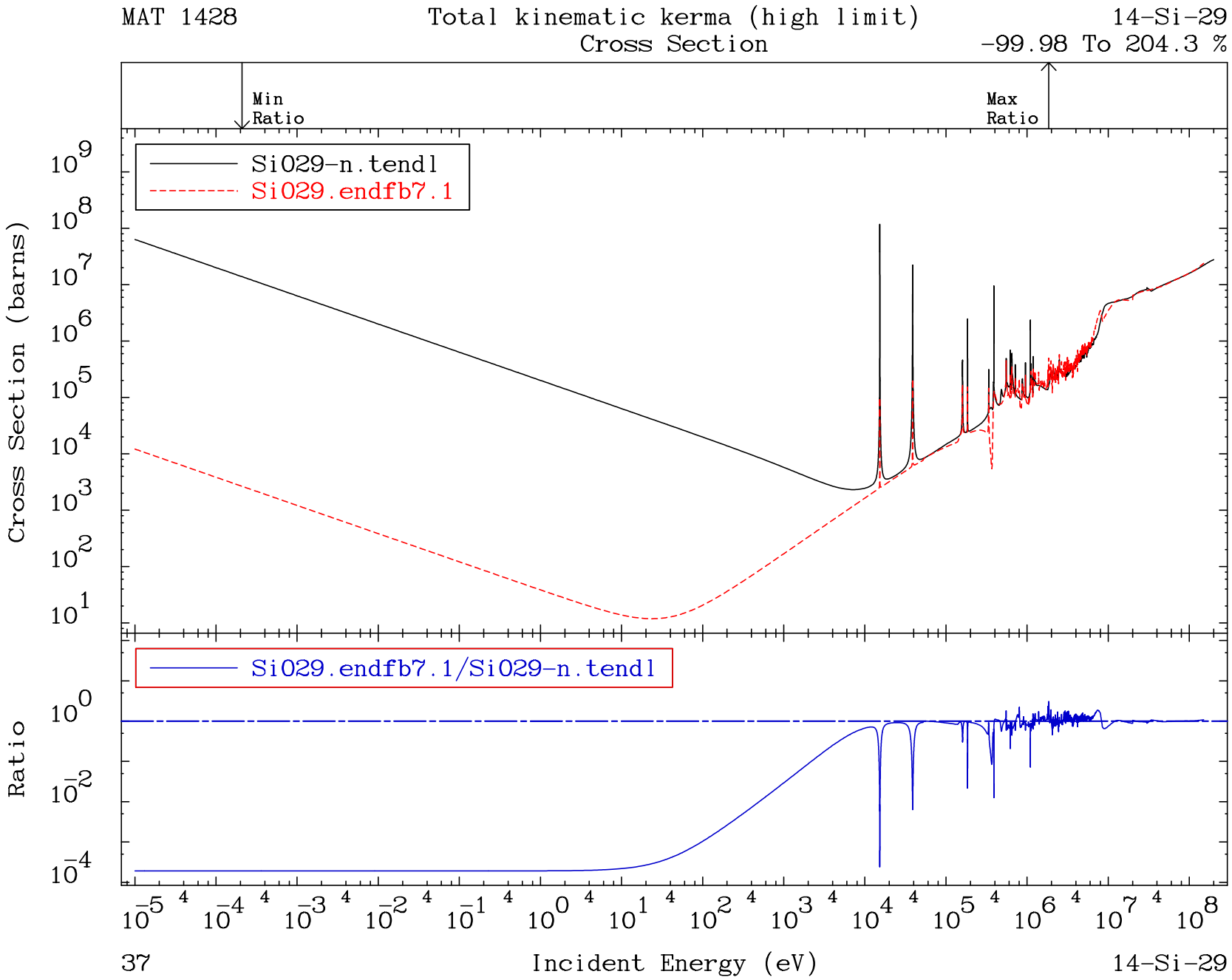

MAT 1428
Kerma non-elastic (all but mt2)
Cross Section
14-Si-29
-99.88 To 3734. %
Min Ratio
Max Ratio
Si029-n.tendl
Si029.endfb7.1
Cross Section (barns)
Si029.endfb7.1/Si029-n.tendl
Ratio
Incident Energy (eV)
32
14-Si-29

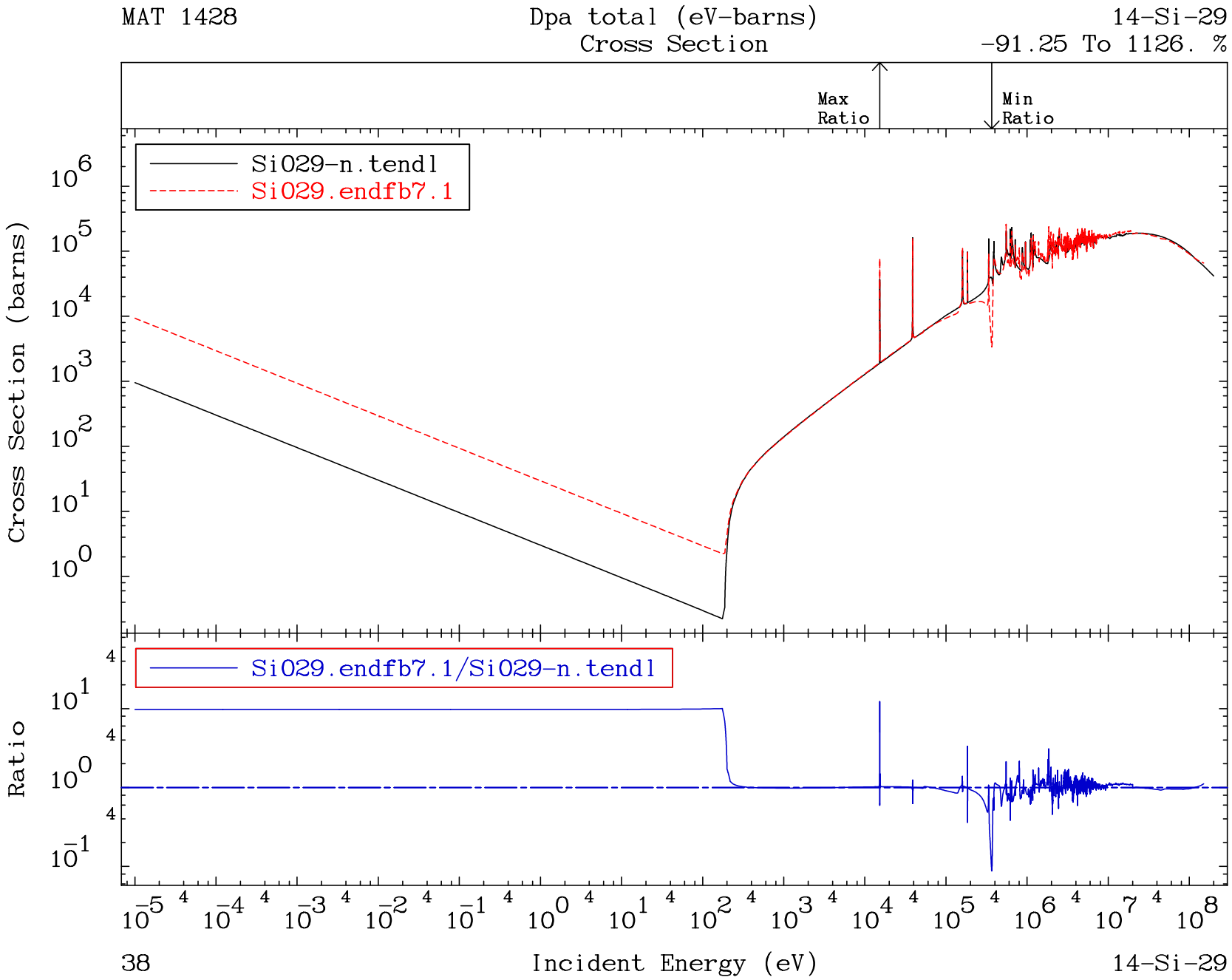

MAT 1428
Kerma inelastic (mt51-91)
Cross Section
14-Si-29
-100.0 To 239.0 %
Max Ratio
Min Ratio
Si029-n.tendl Threshold 1.4000 MeV
Si029.endfb7.1 Threshold 1.3200 MeV
Cross Section (barns)
Si029.endfb7.1/Si029-n.tendl
Ratio
Incident Energy (eV)
33
14-Si-29

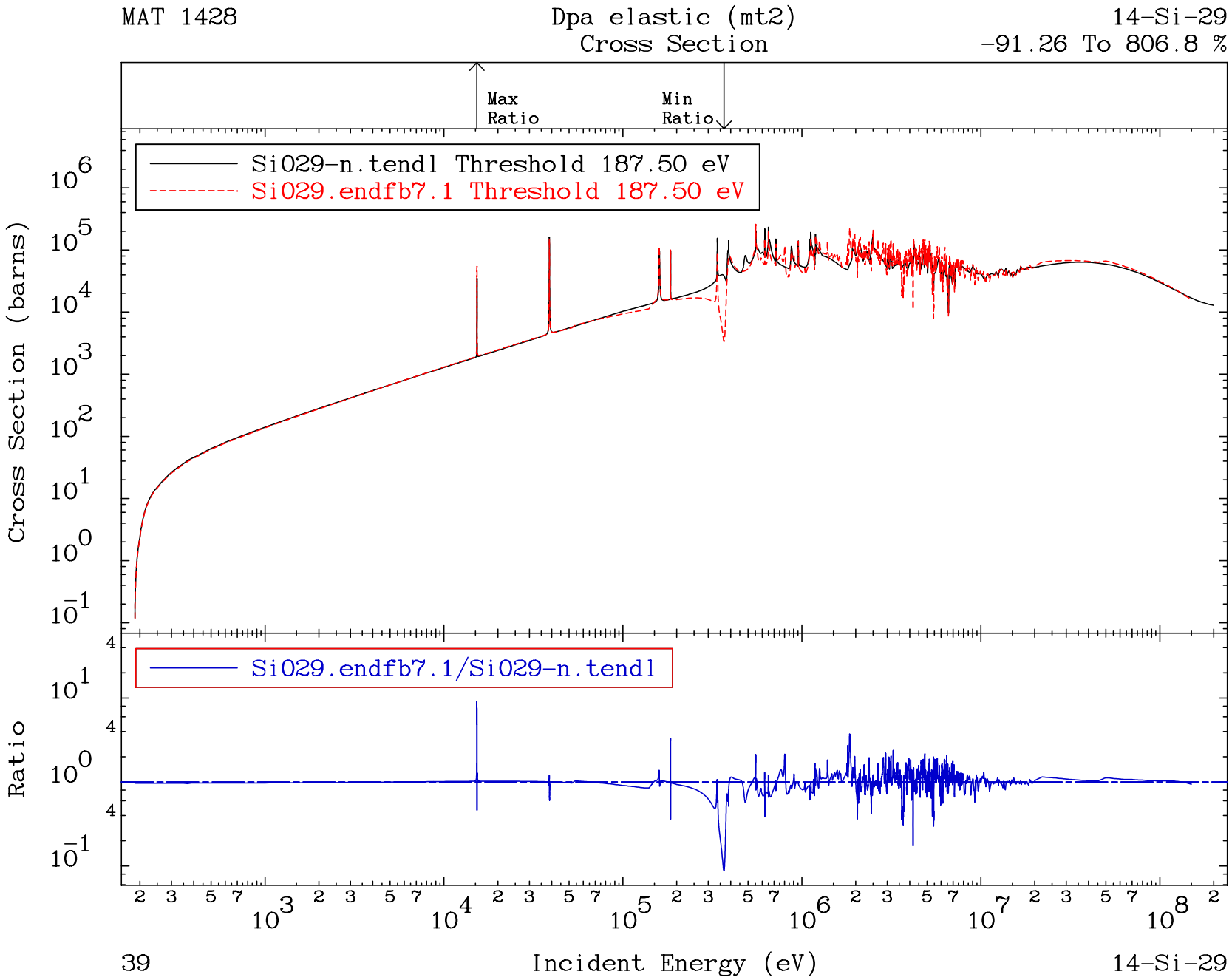

MAT 1428
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
14-Si-29
-100.0 To 239.0 %
Max Ratio
Min Ratio
Si029-n.tendl
Si029.endfb7.1
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
Si029.endfb7.1/Si029-n.tendl
Ratio
4
2
0
10-5 10-4 10-3 10-2 10-1 100 101 102 103 104 105 106 107 108
34
Incident Energy (eV)
14-Si-29

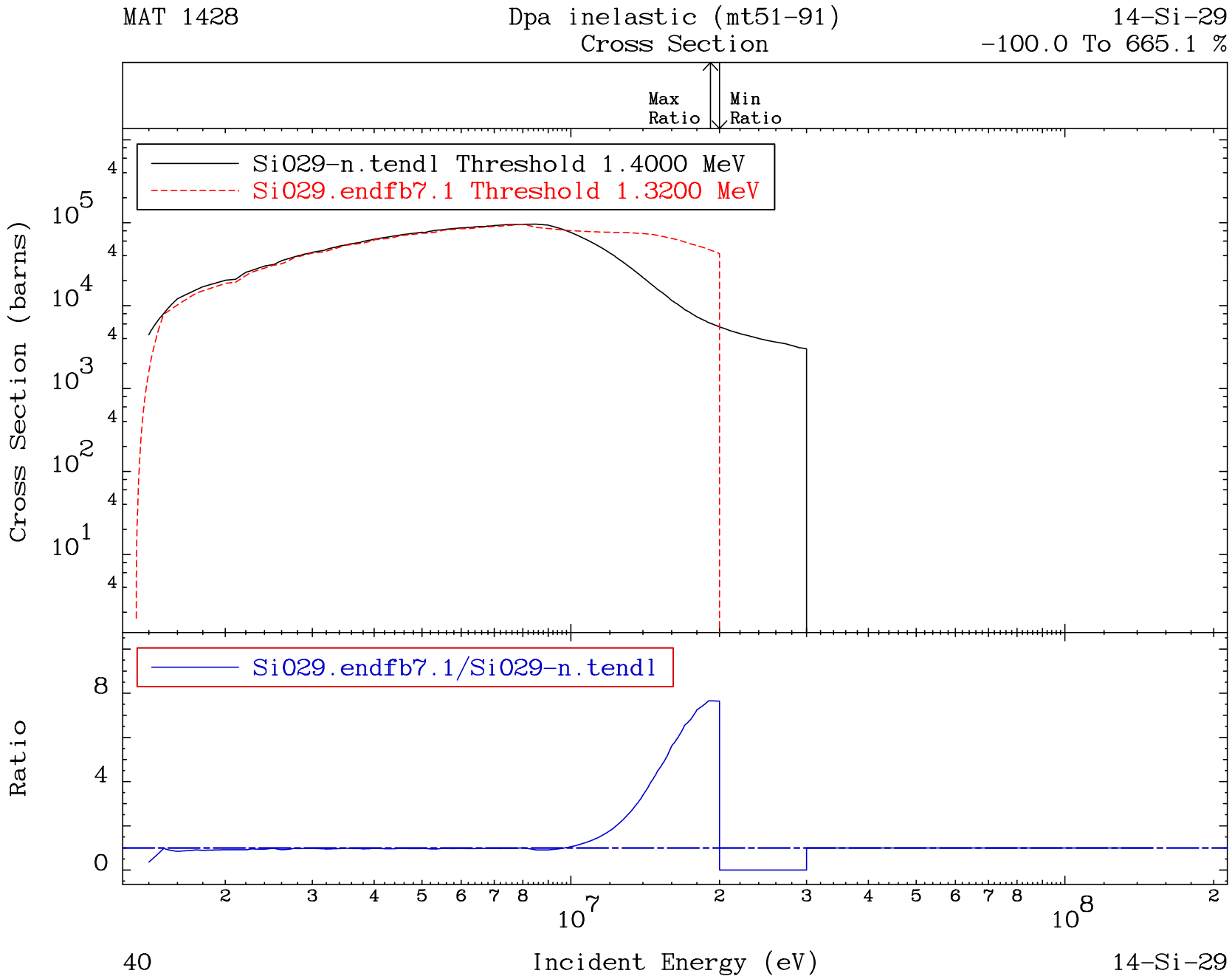

MAT 1428
Kerma capture (mt102)
Cross Section
14-Si-29
-100.0 To 3734. %
Max Ratio
Min Ratio
Si029-n.tendl
Si029.endfb7.1
Cross Section (barns)
Si029.endfb7.1/Si029-n.tendl
Ratio
Incident Energy (eV)
35
14-Si-29

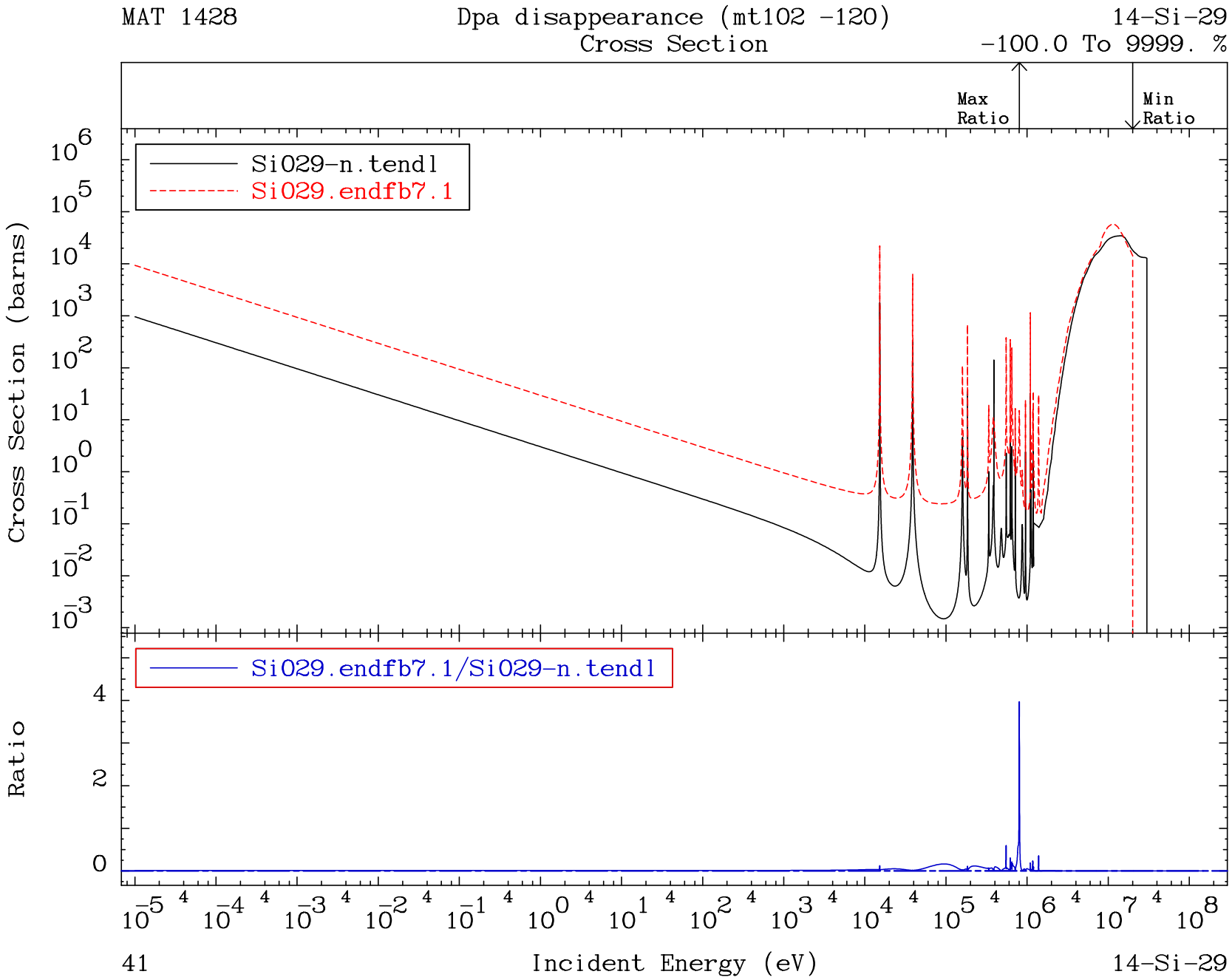

MAT 1428
Total photon (eV-barns)
Cross Section
14-Si-29
-100.0 To 353.8 %
Min Ratio
Max Ratio
Si029-n.tendl
Si029.endfb7.1 Threshold 6.2089 MeV
Cross Section (barns)
Si029.endfb7.1/Si029-n.tendl
Ratio
Incident Energy (eV)
36
14-Si-29


MAT 1428
Total kinematic kerma (high limit)
Cross Section
14-Si-29
-99.98 To 204.3 %
Min Ratio
Max Ratio
Si029-n.tendl
Si029.endfb7.1
Cross Section (barns)
Si029.endfb7.1/Si029-n.tendl
Ratio
Incident Energy (eV)
37
14-Si-29


MAT 1428
Dpa total (eV-barns)
Cross Section
14-Si-29
-91.25 To 1126. %
Max Ratio
Min Ratio
Si029-n.tendl
Si029.endfb7.1
Cross Section (barns)
Si029.endfb7.1/Si029-n.tendl
Ratio
38
Incident Energy (eV)
14-Si-29


MAT 1428
Dpa elastic (mt2)
Cross Section
14-Si-29
-91.26 To 806.8 %
Max Ratio
Min Ratio
Si029-n.tendl Threshold 187.50 eV
Si029.endfb7.1 Threshold 187.50 eV
Cross Section (barns)
Si029.endfb7.1/Si029-n.tendl
Ratio
Incident Energy (eV)
39
14-Si-29


MAT 1428
Dpa inelastic (mt51-91)
Cross Section
14-Si-29
-100.0 To 665.1 %
Max Ratio
Min Ratio
Si029-n.tendl Threshold 1.4000 MeV
Si029.endfb7.1 Threshold 1.3200 MeV
Cross Section (barns)
Si029.endfb7.1/Si029-n.tendl
Ratio
Incident Energy (eV)
40
14-Si-29


MAT 1428
Dpa disappearance (mt102 -120)
Cross Section
14-Si-29
-100.0 To 9999. %
Max Ratio
Min Ratio
Si029-n.tendl
Si029.endfb7.1
Cross Section (barns)
Si029.endfb7.1/Si029-n.tendl
Ratio
Incident Energy (eV)
41
14-Si-29