

Program Complot
(Version 2021-1)

by

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Press Mouse Button to Start

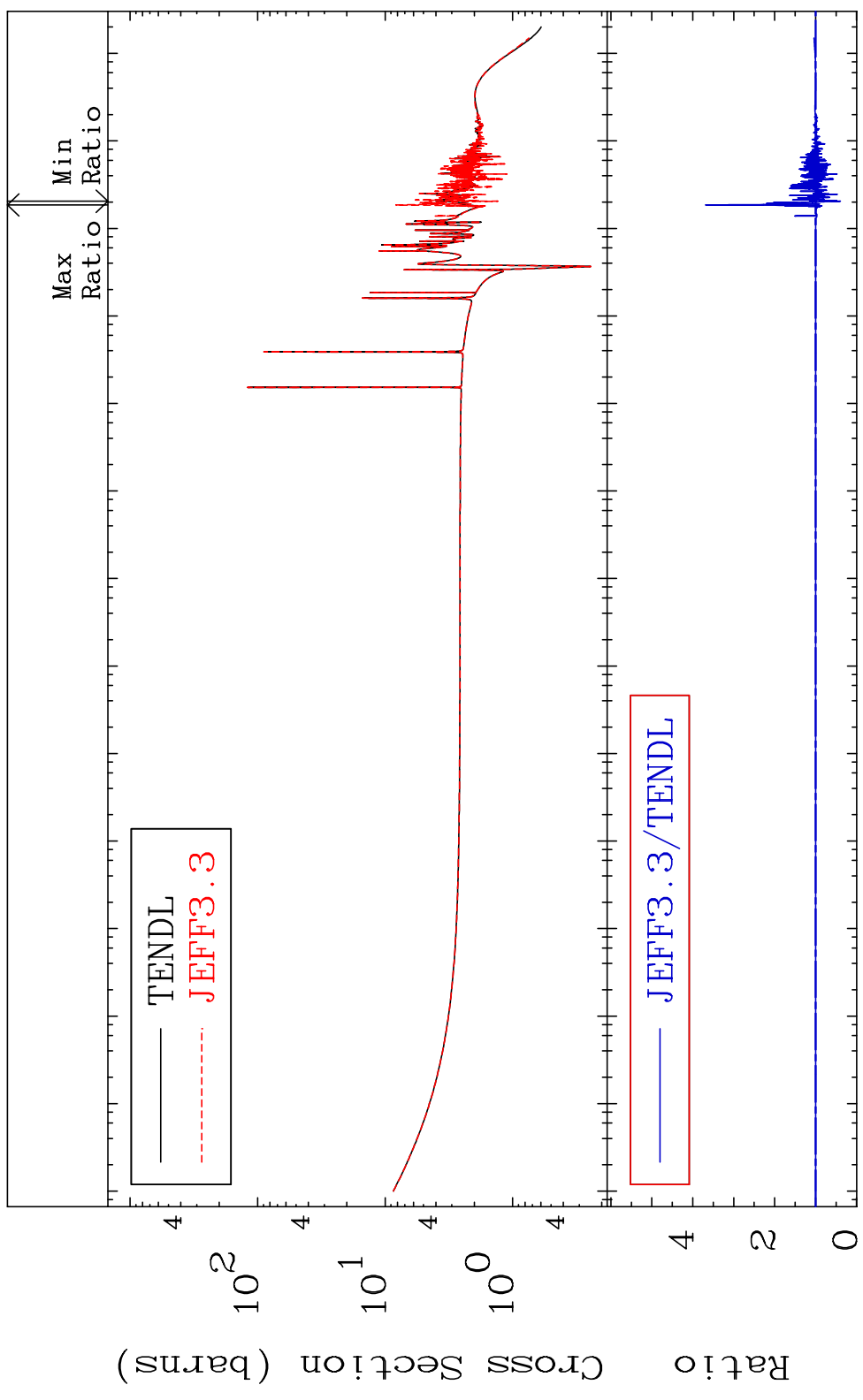
MAT 1428

Total

14-Si-29

Cross Section

-60.50 To 268.4 %



1

Incident Energy (eV)

14-Si-29

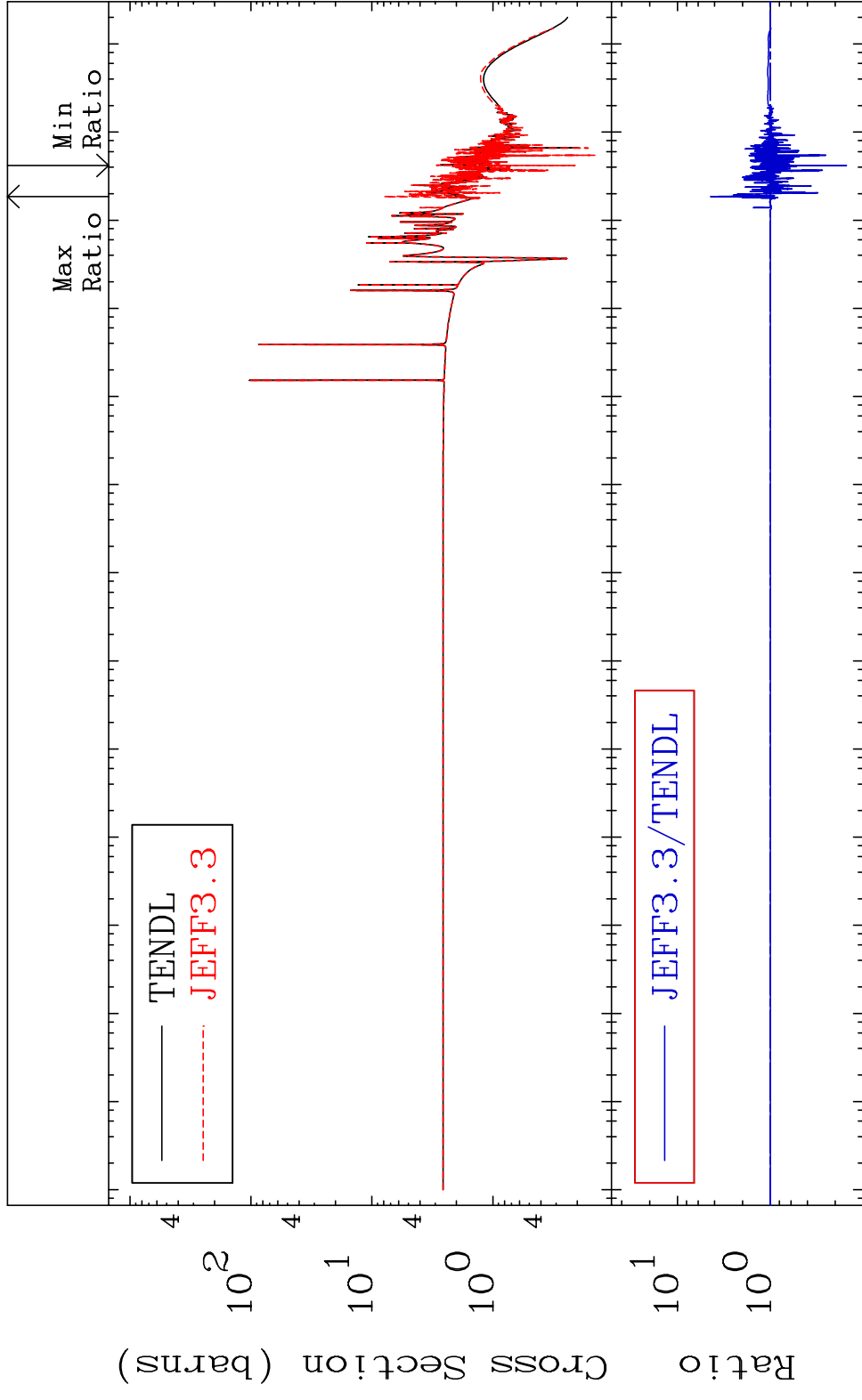
MAT 1428

Elastic

14-Si-29

Cross Section

-84.80 To 339.7 %



2

Incident Energy (eV)

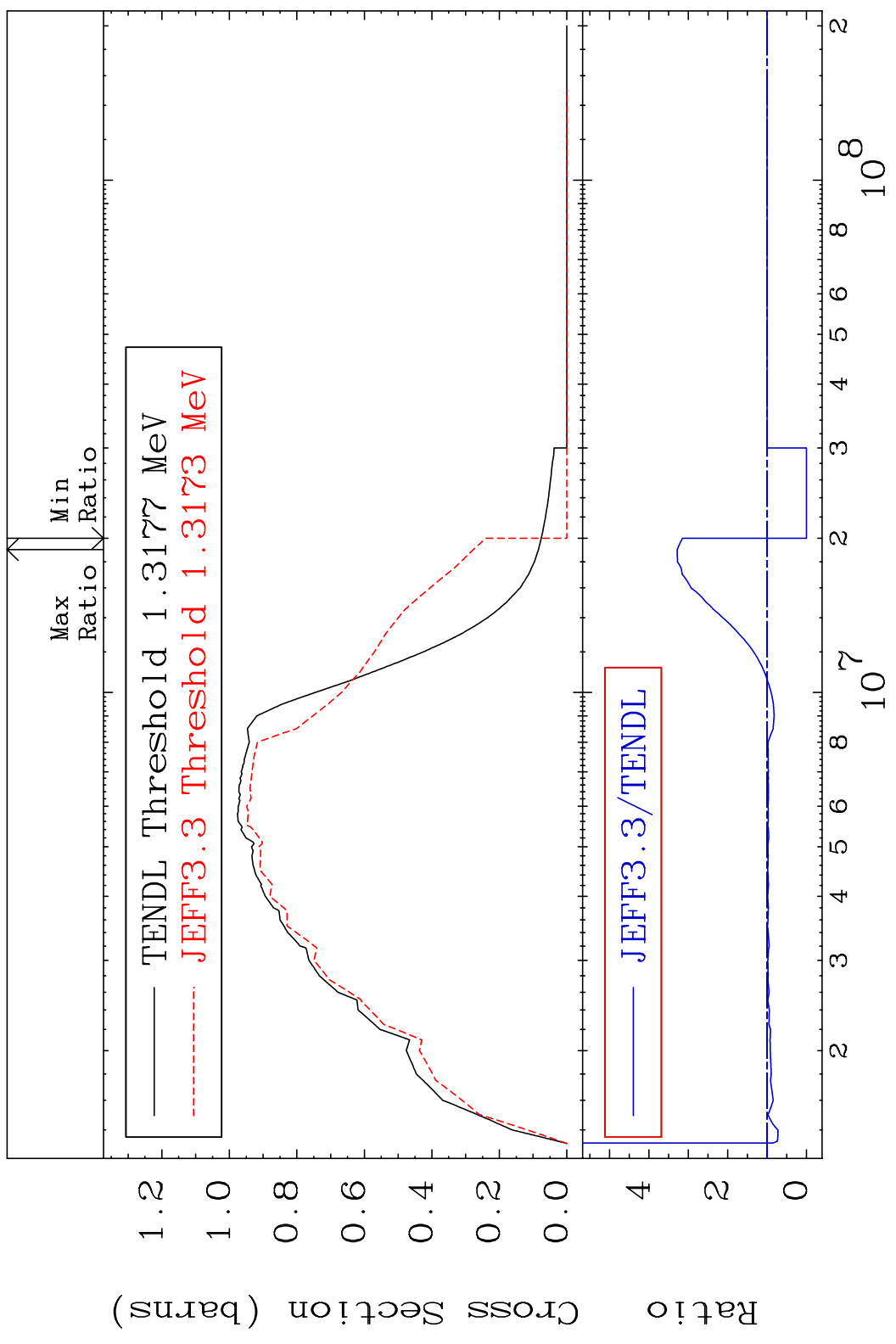
14-Si-29

MAT 1428

Inelastic

¹⁴Si-29

Cross Section -100.0 To 228.3 %



3

Incident Energy (eV)

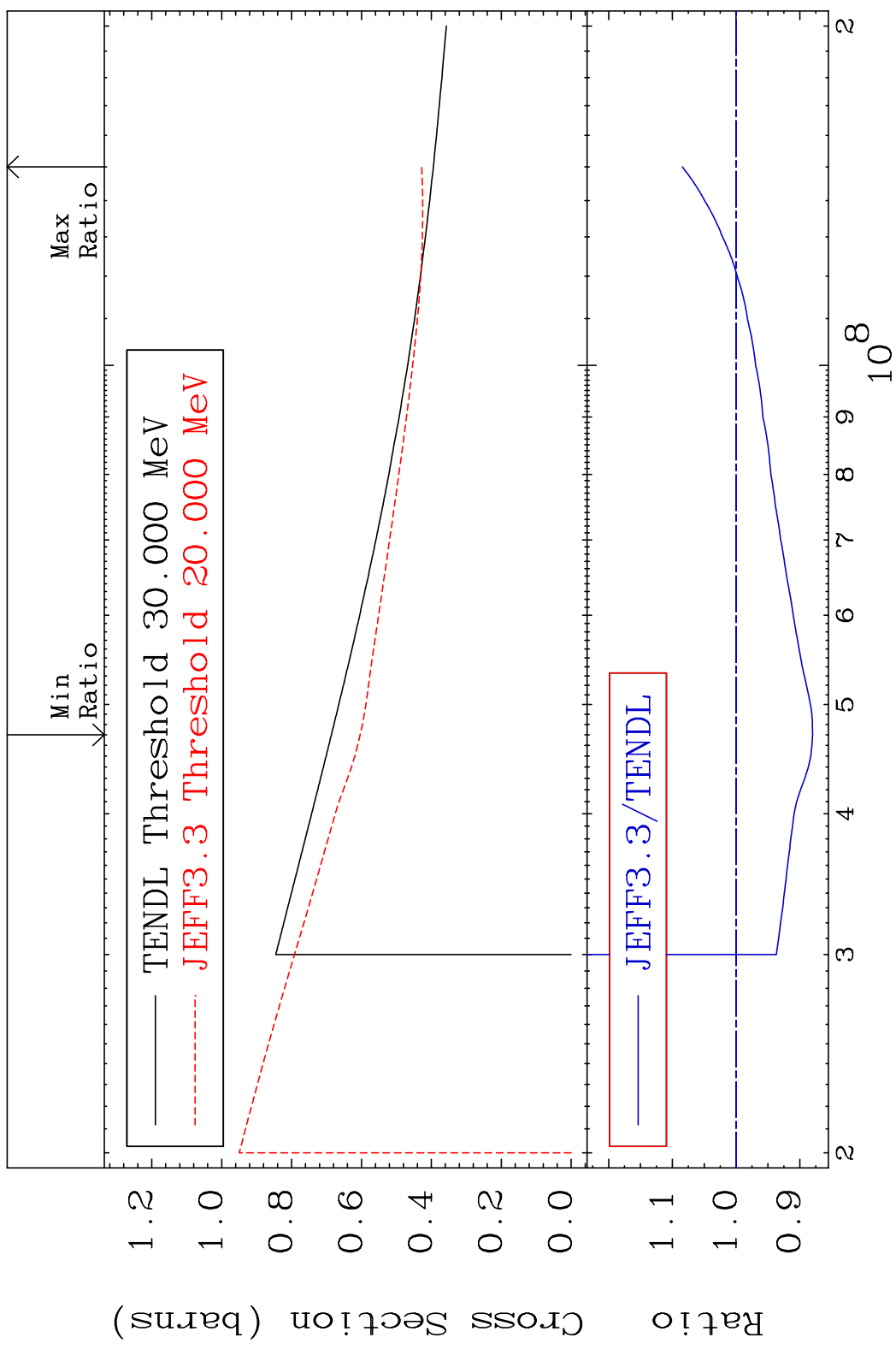
¹⁴Si-29

MAT 1428

(n, remainder)

14-Si-29

Cross Section -12.00 To 8.431 %

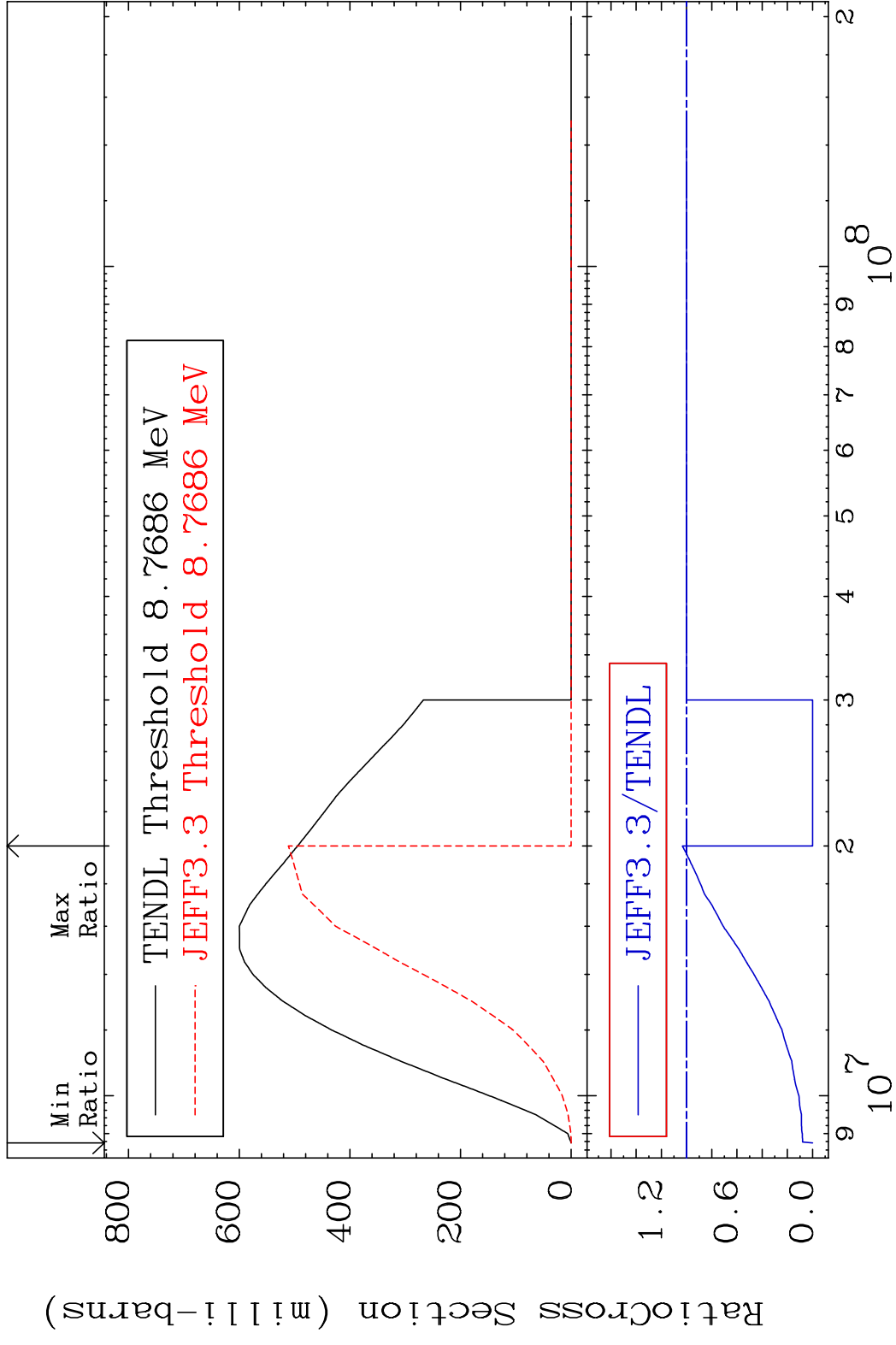


4

Incident Energy (eV)

14-Si-29

MAT 1428 (n,2n) 14-Si-29
 Cross Section -100.0 To 3.346 %

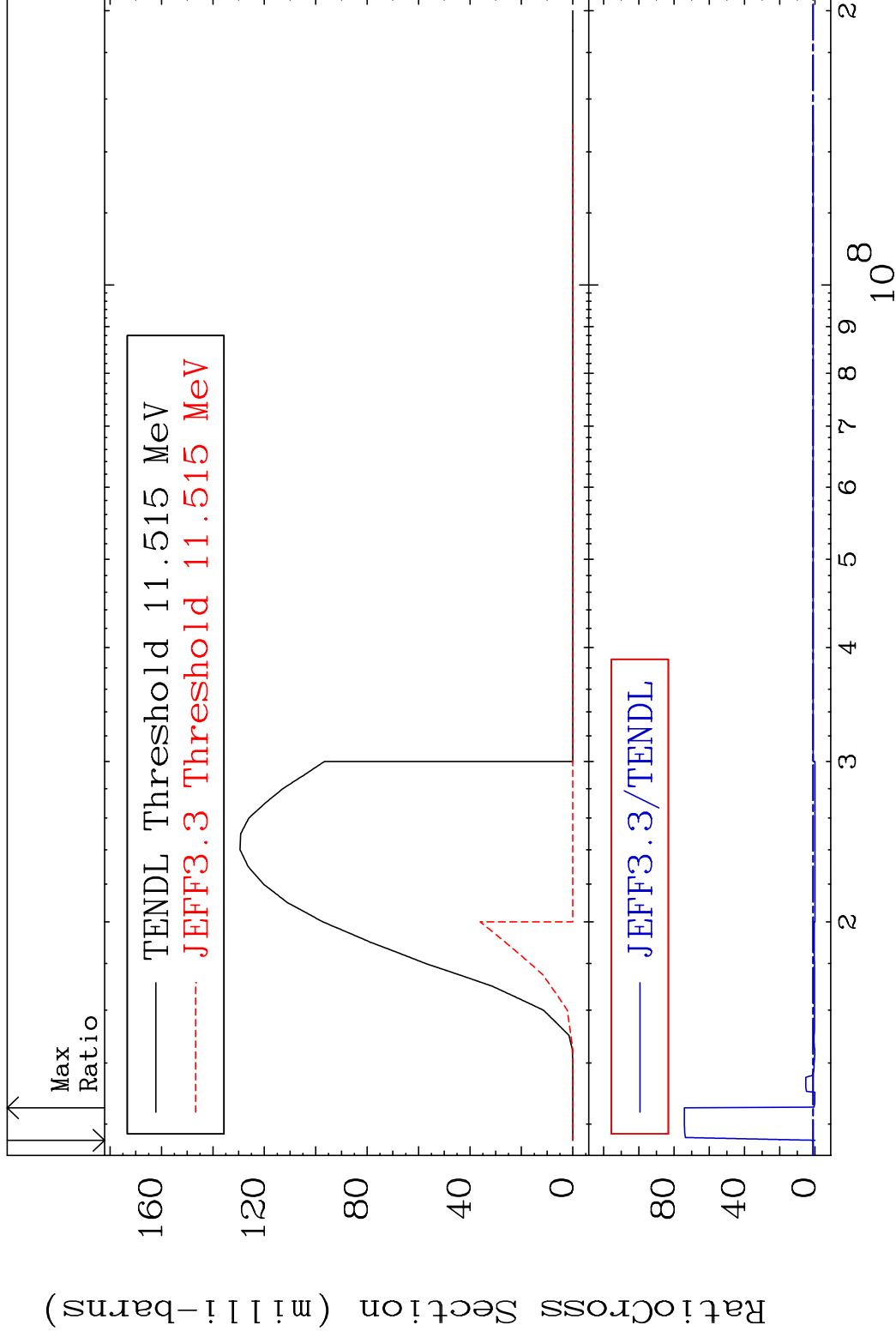


MAT 1428

(n, n') α

14-Si-29

Cross Section -100.0 To 7314. %



6

Incident Energy (eV)

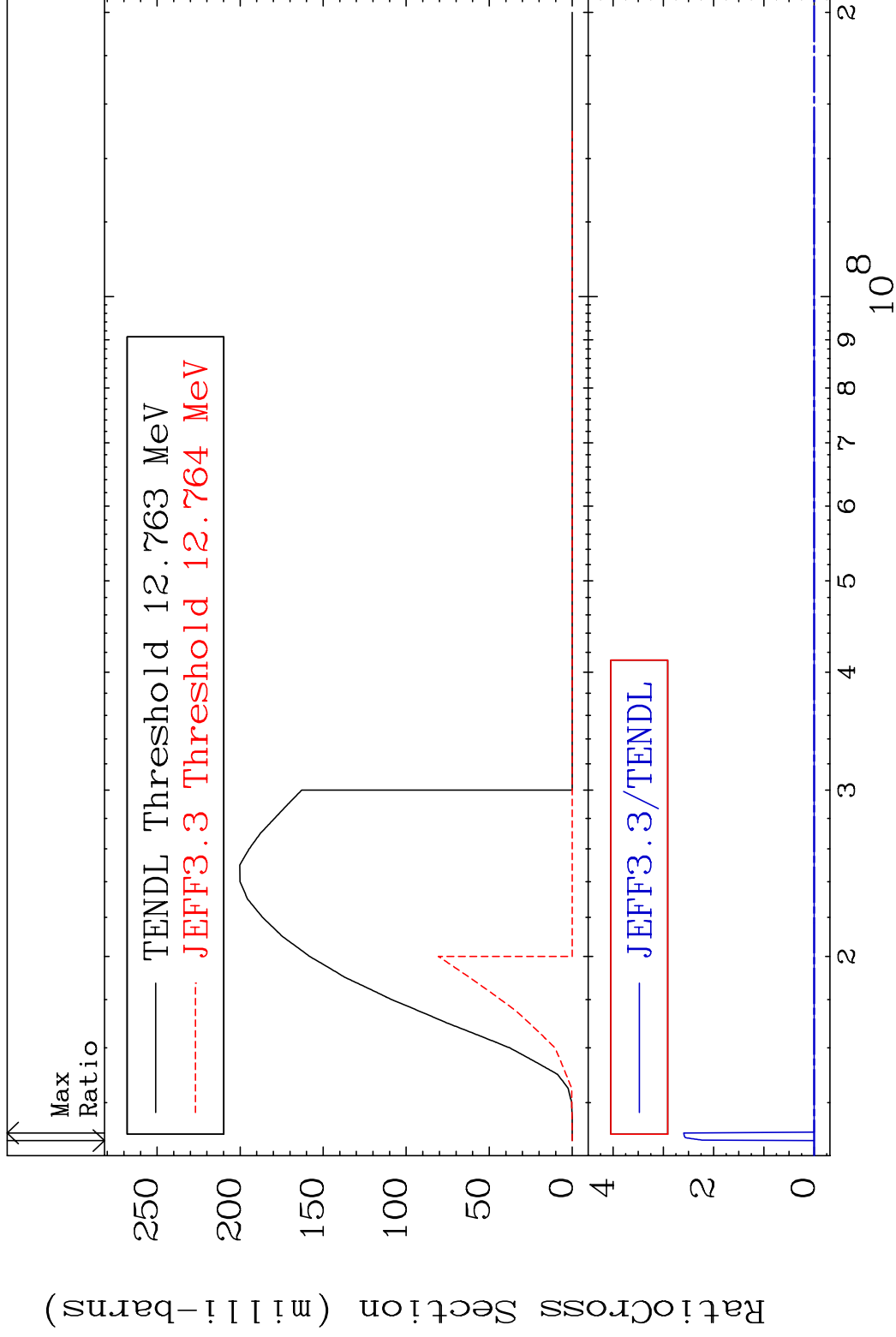
14-Si-29

MAT 1428

(n, n') p

14-Si-29

Cross Section -100.0 To 9999. %

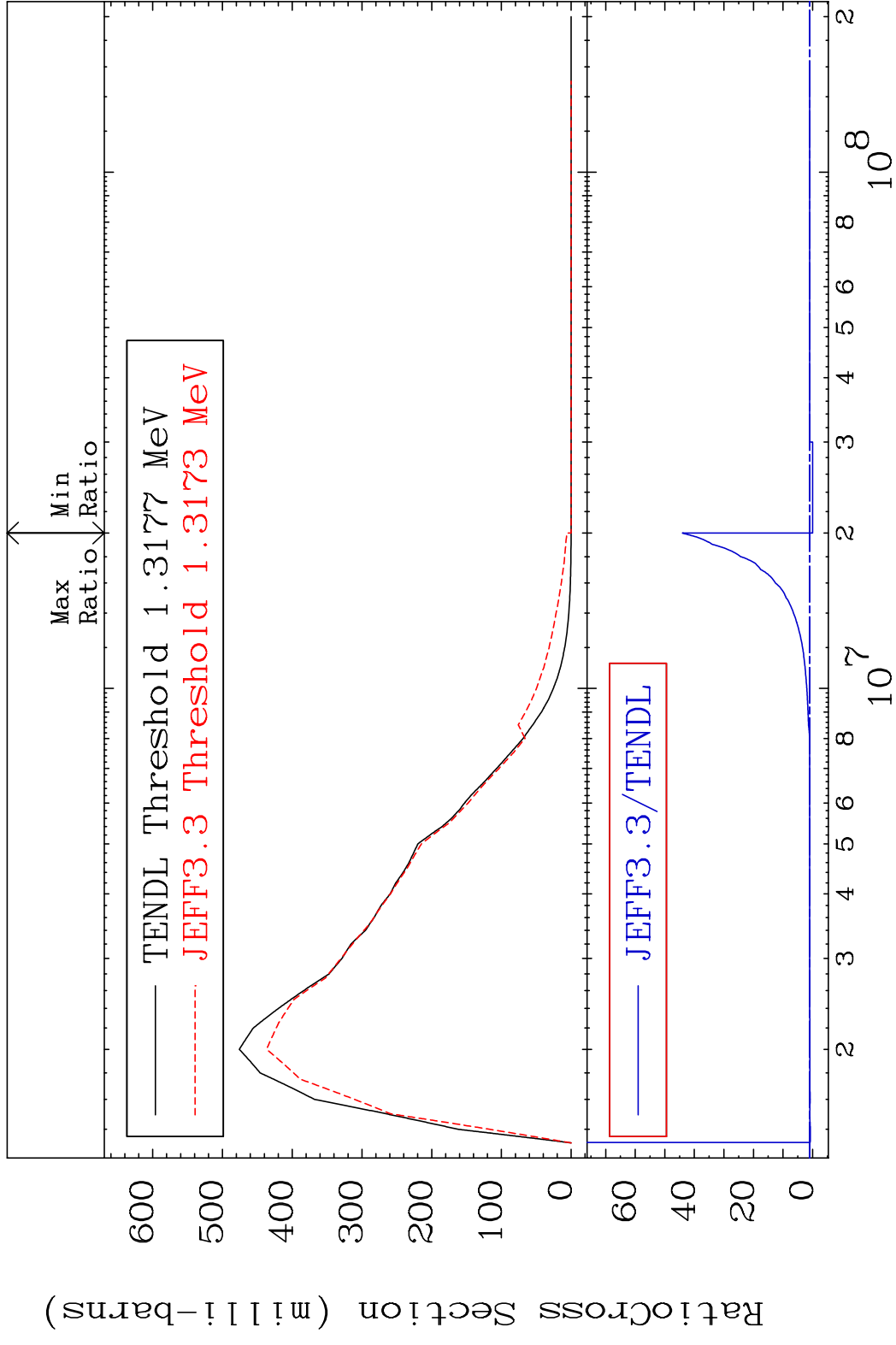


7

Incident Energy (eV)

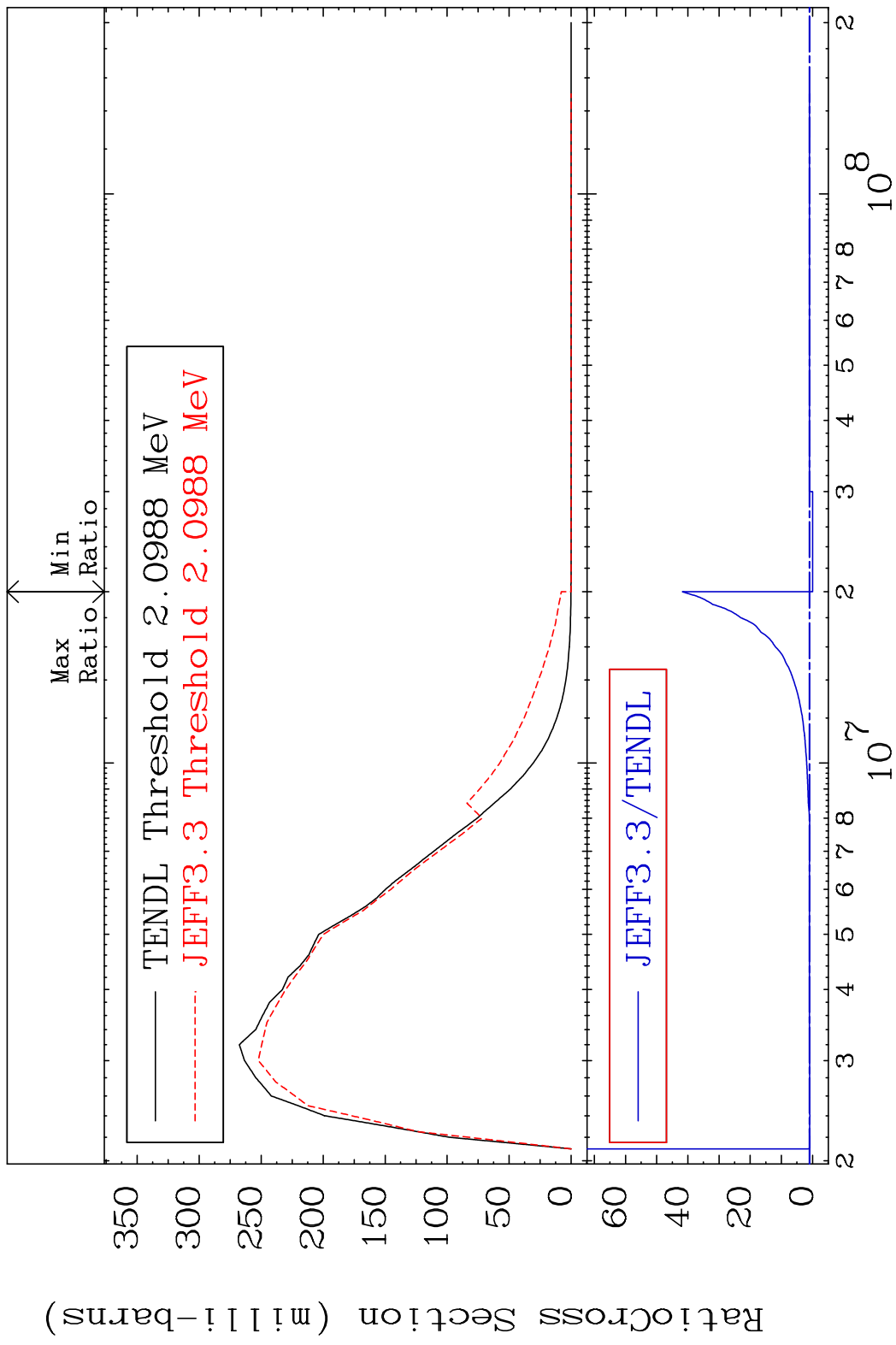
14-Si-29

MAT 1428 MT= 51 (n, n') Level 14-Si-29
 Cross Section -100.0 To 4306. %

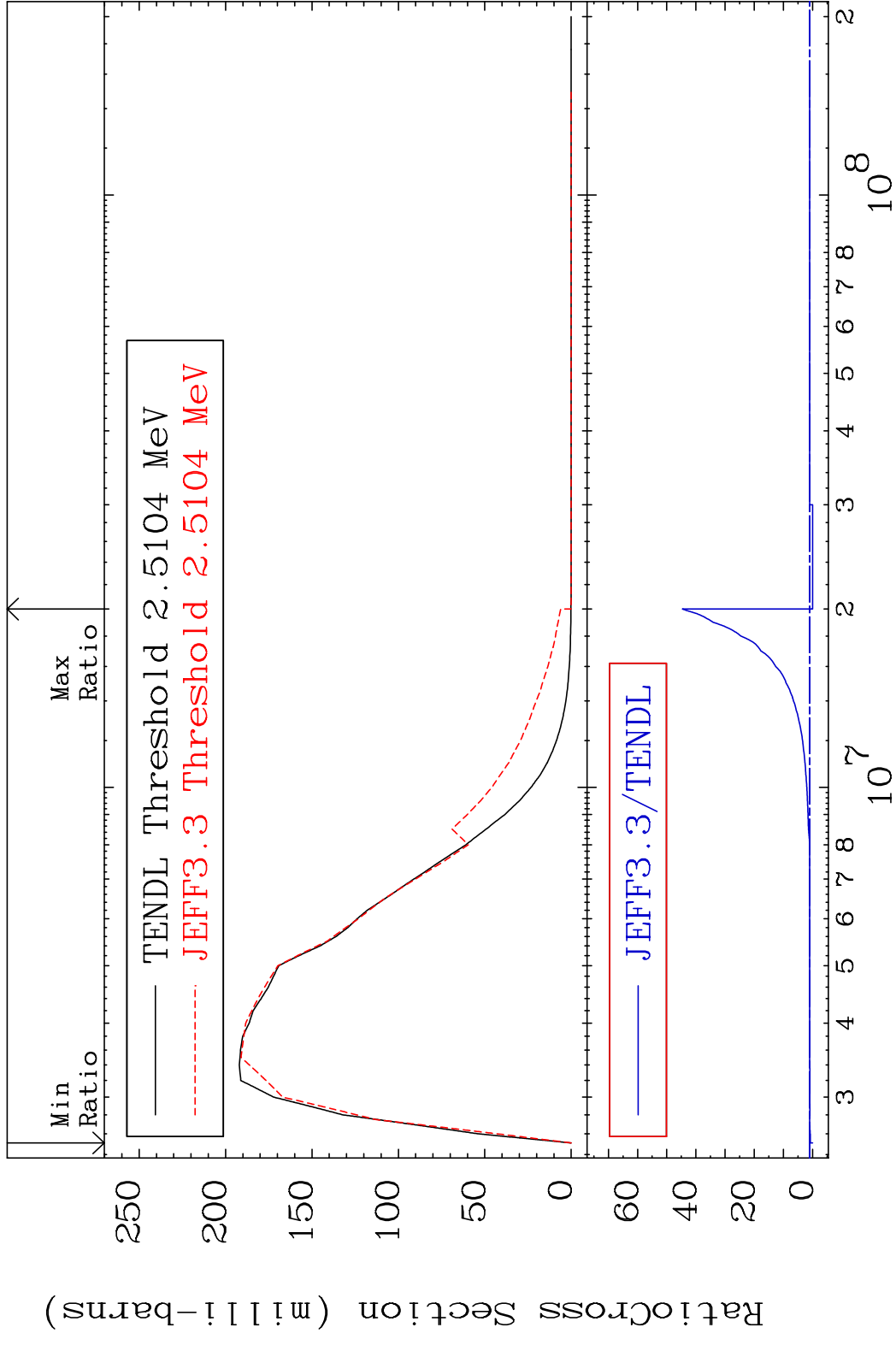


8 Incident Energy (eV) 14-Si-29

MAT 1428 MT= 52 (n, n') Level 14-Si-29
 Cross Section -100.0 To 4077. %

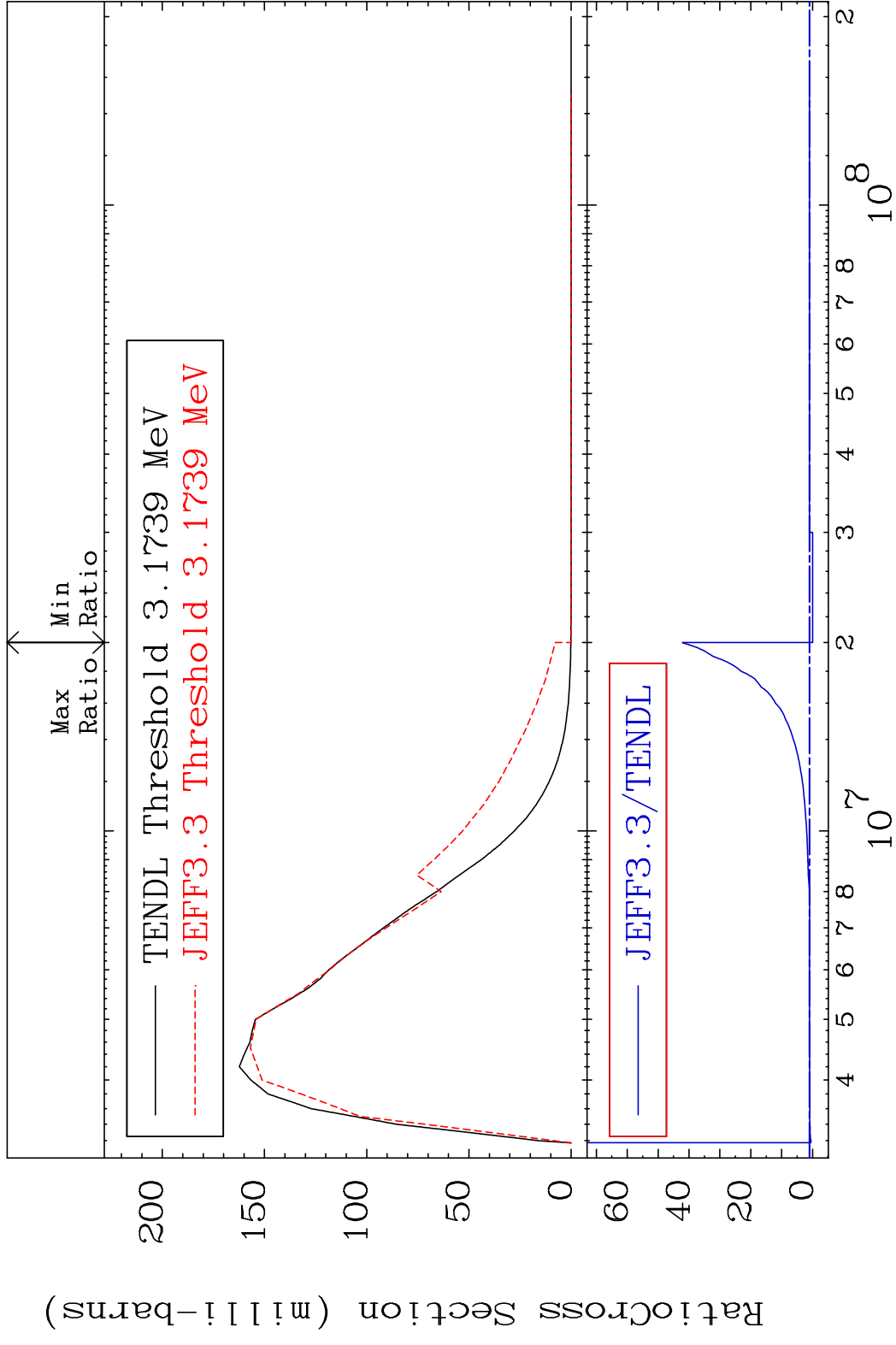


MAT 1428 MT= 53 (n, n') Level 14-Si-29
 Cross Section -100.0 To 4365. %

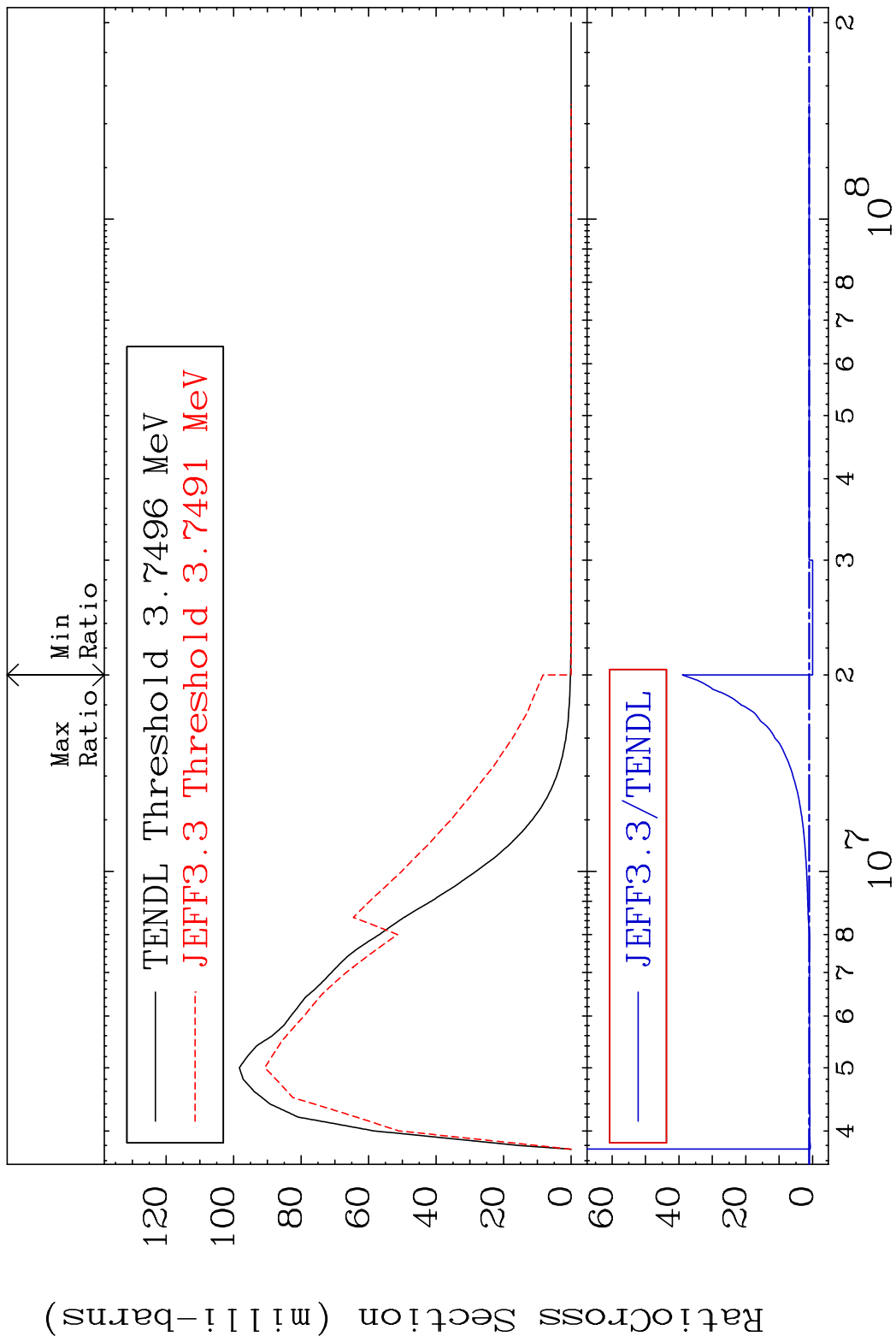


10 Incident Energy (eV) 14-Si-29

MAT 1428 MT= 54 (n, n') Level 14-Si-29
 Cross Section -100.0 To 4116. %

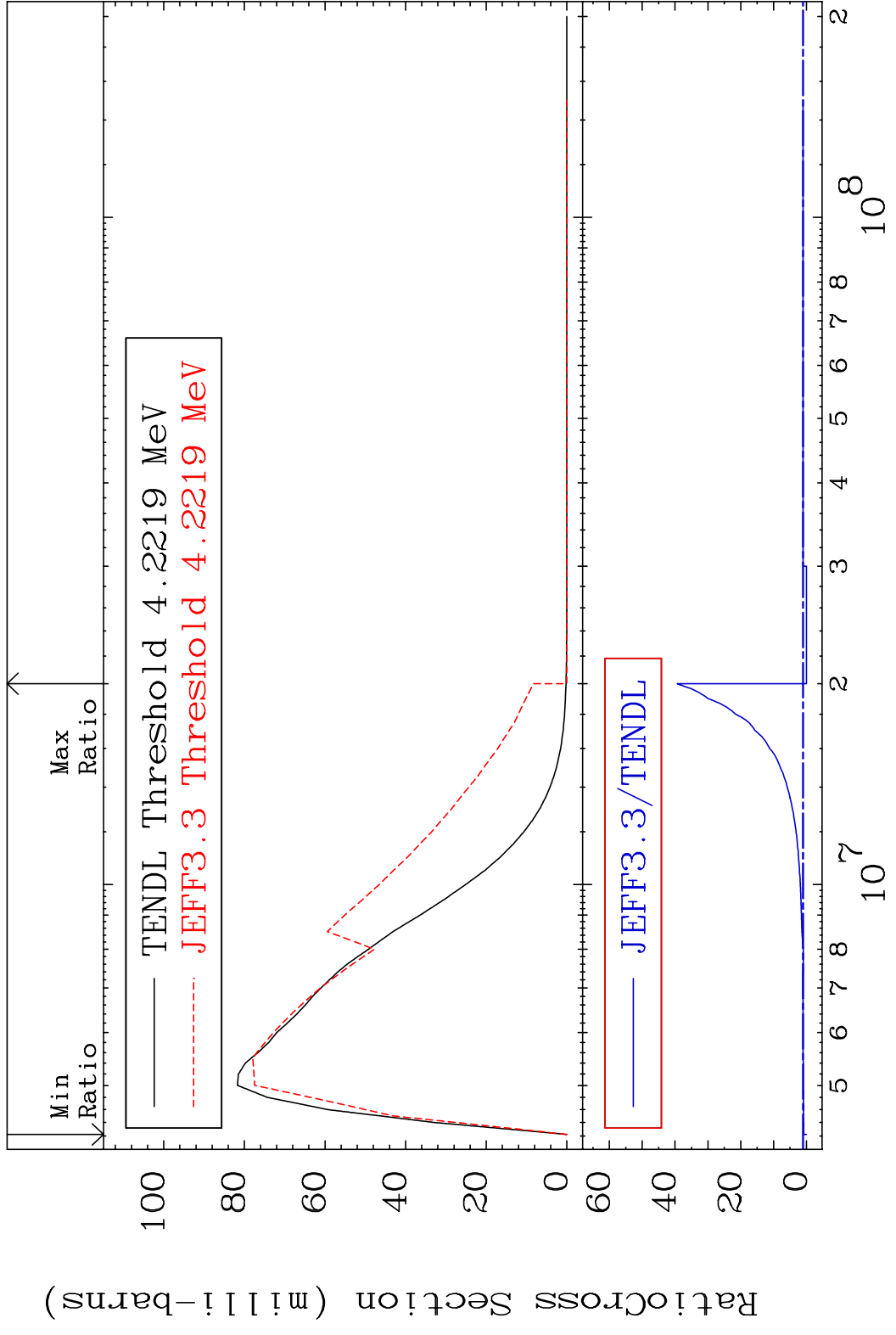


MAT 1428 MT= 55 (n, n') Level 14-Si-29
 Cross Section -100.0 To 3798. %

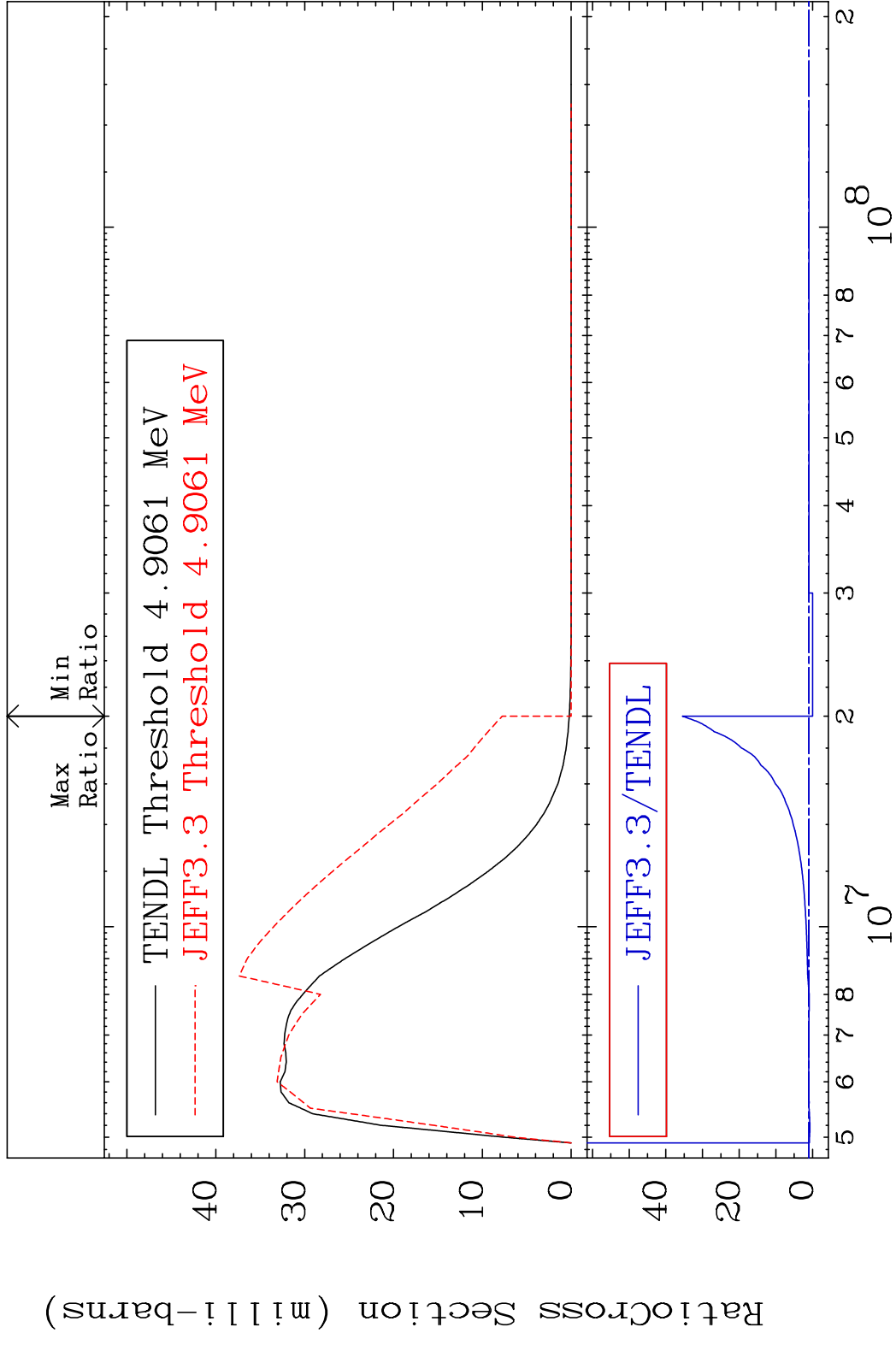


12 14-Si-29

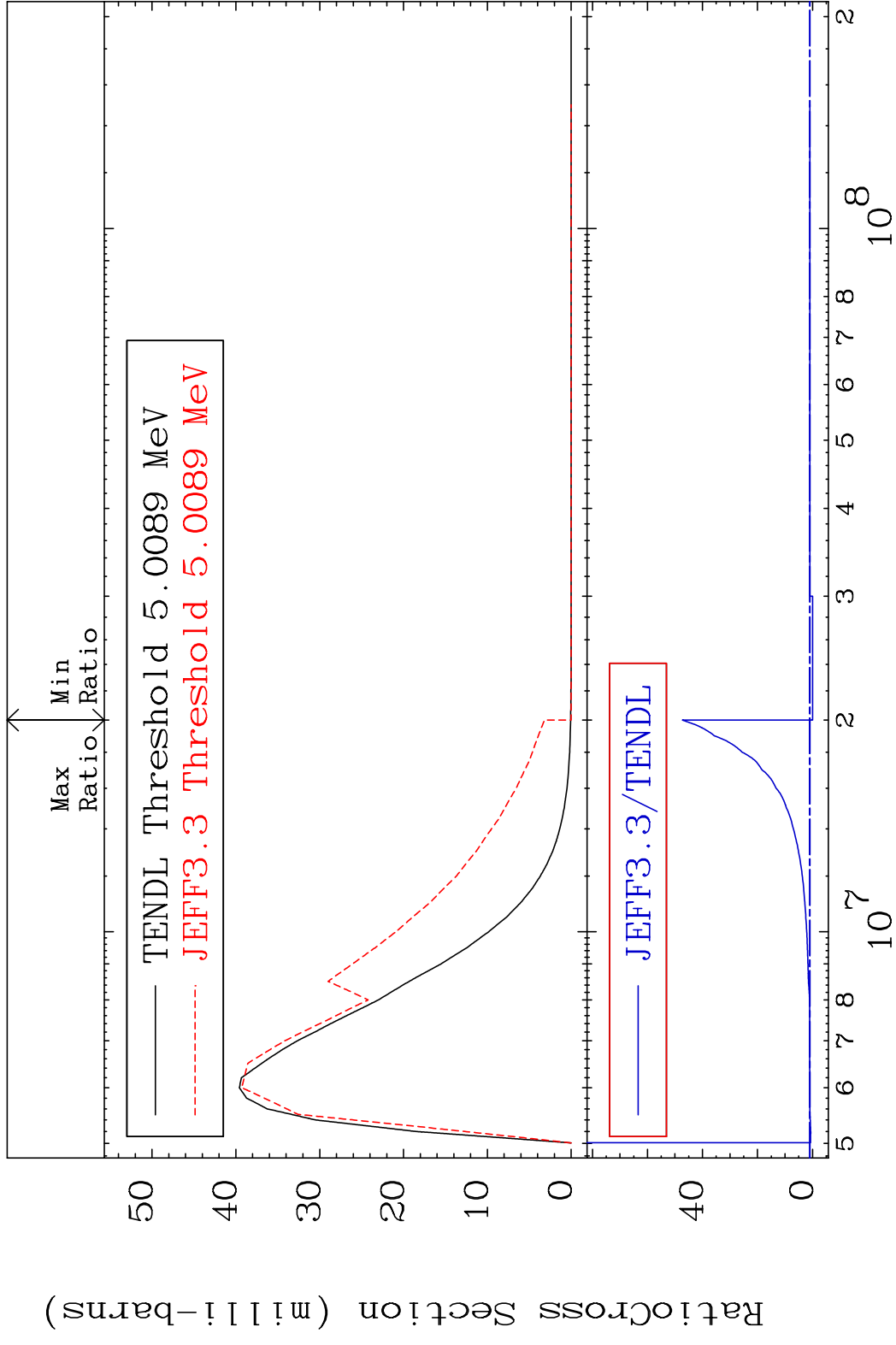
MAT 1428 MT= 56 (n,n') Level 14-Si-29
 Cross Section -100.0 To 3835. %



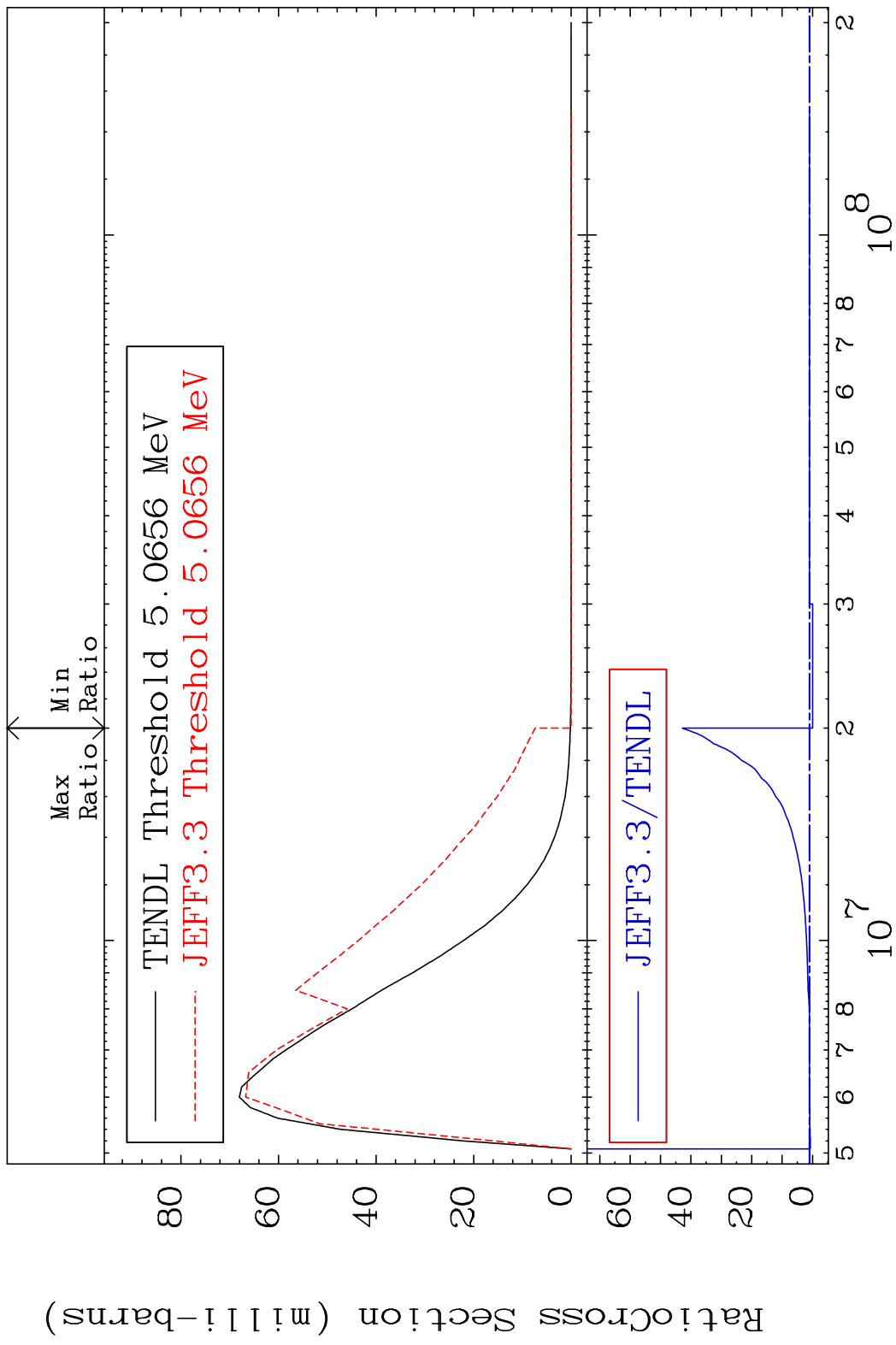
MAT 1428 MT= 57 (n, n') Level 14-Si-29
 Cross Section -100.0 To 3450. %



MAT 1428 MT= 58 (n,n') Level 14-Si-29
 Cross Section -100.0 To 4632. %

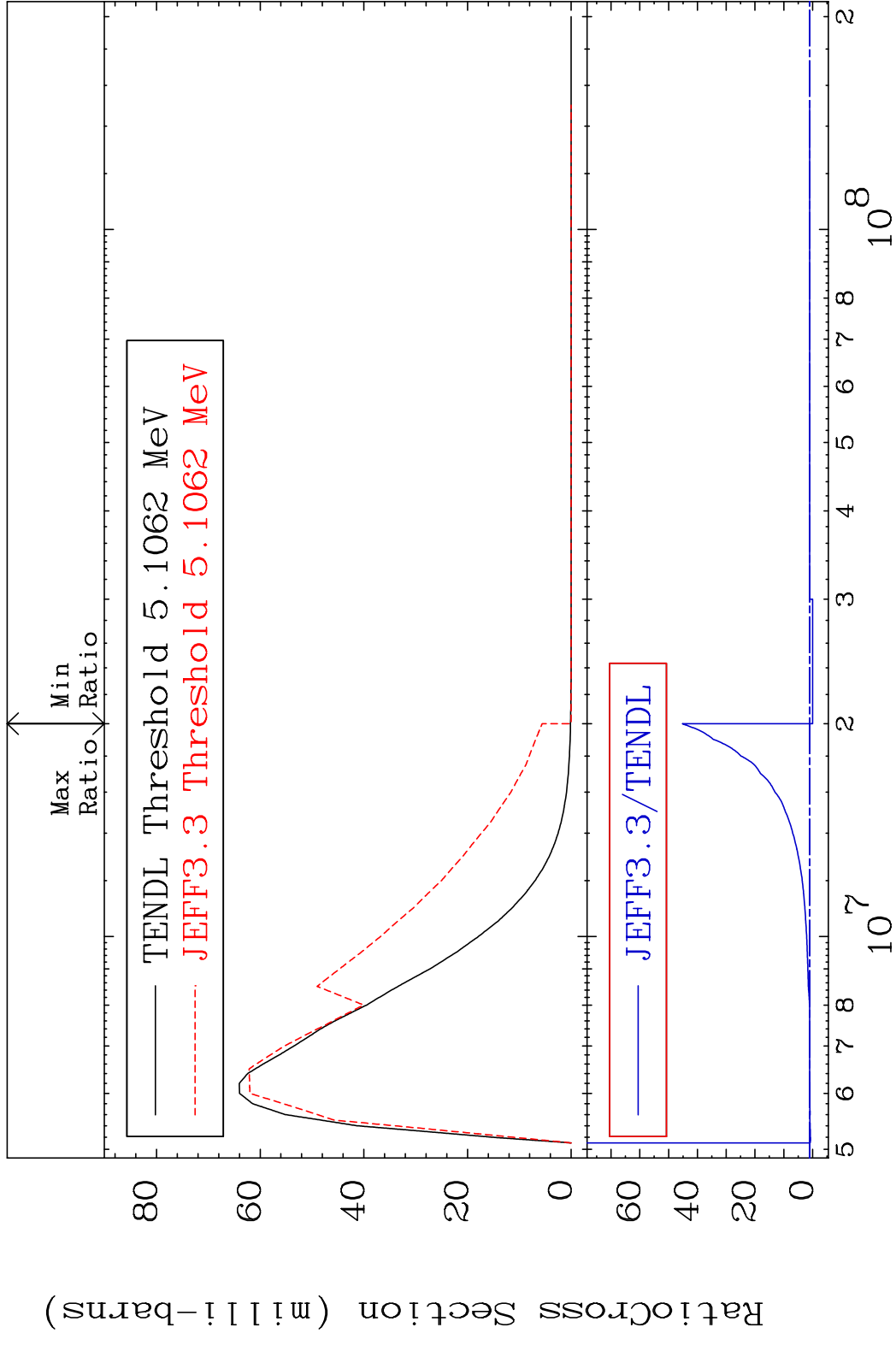


MAT 1428 MT= 59 (n,n') Level 14-Si-29
 Cross Section -100.0 To 4182. %

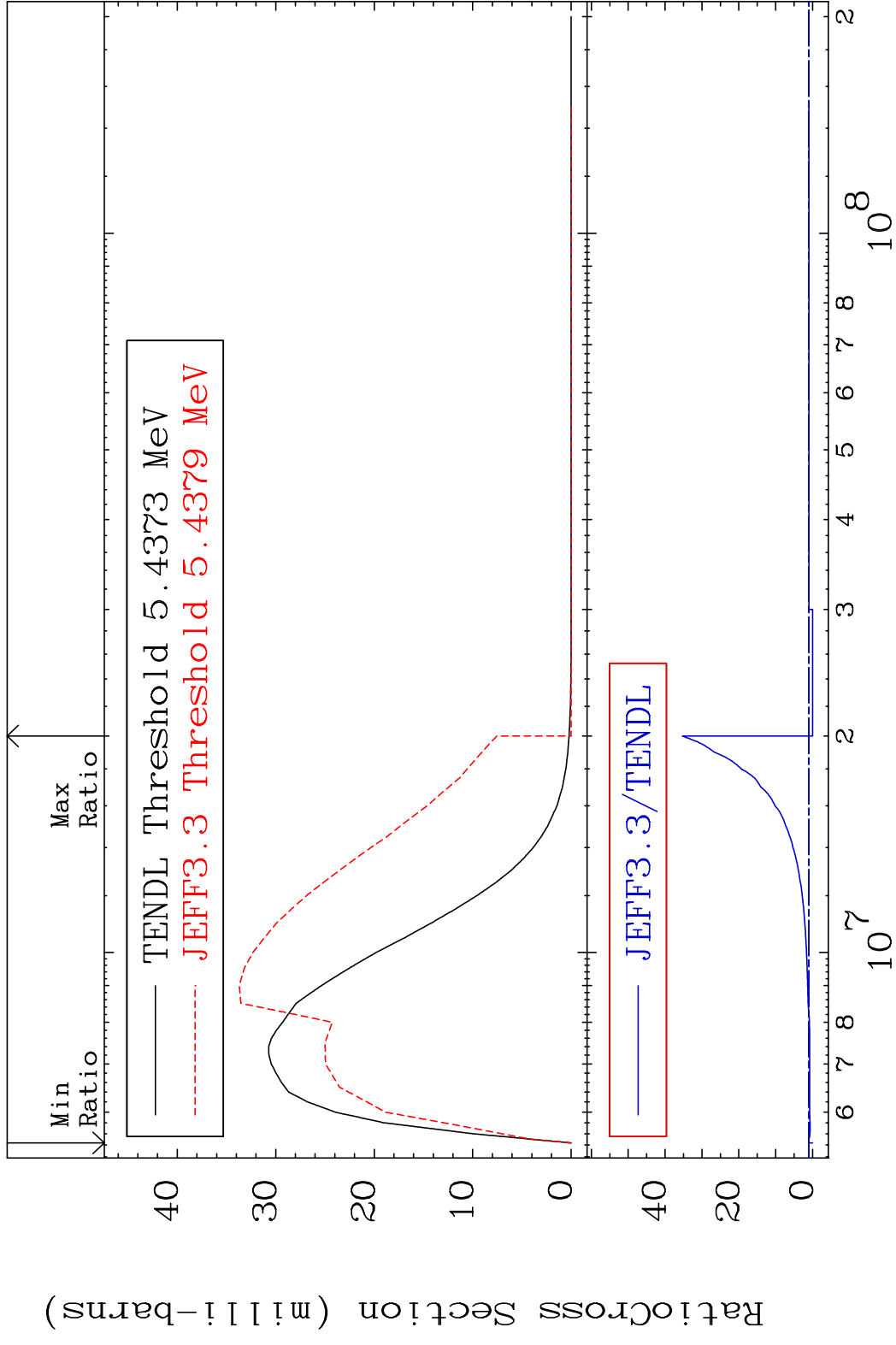


16 Incident Energy (eV) 14-Si-29

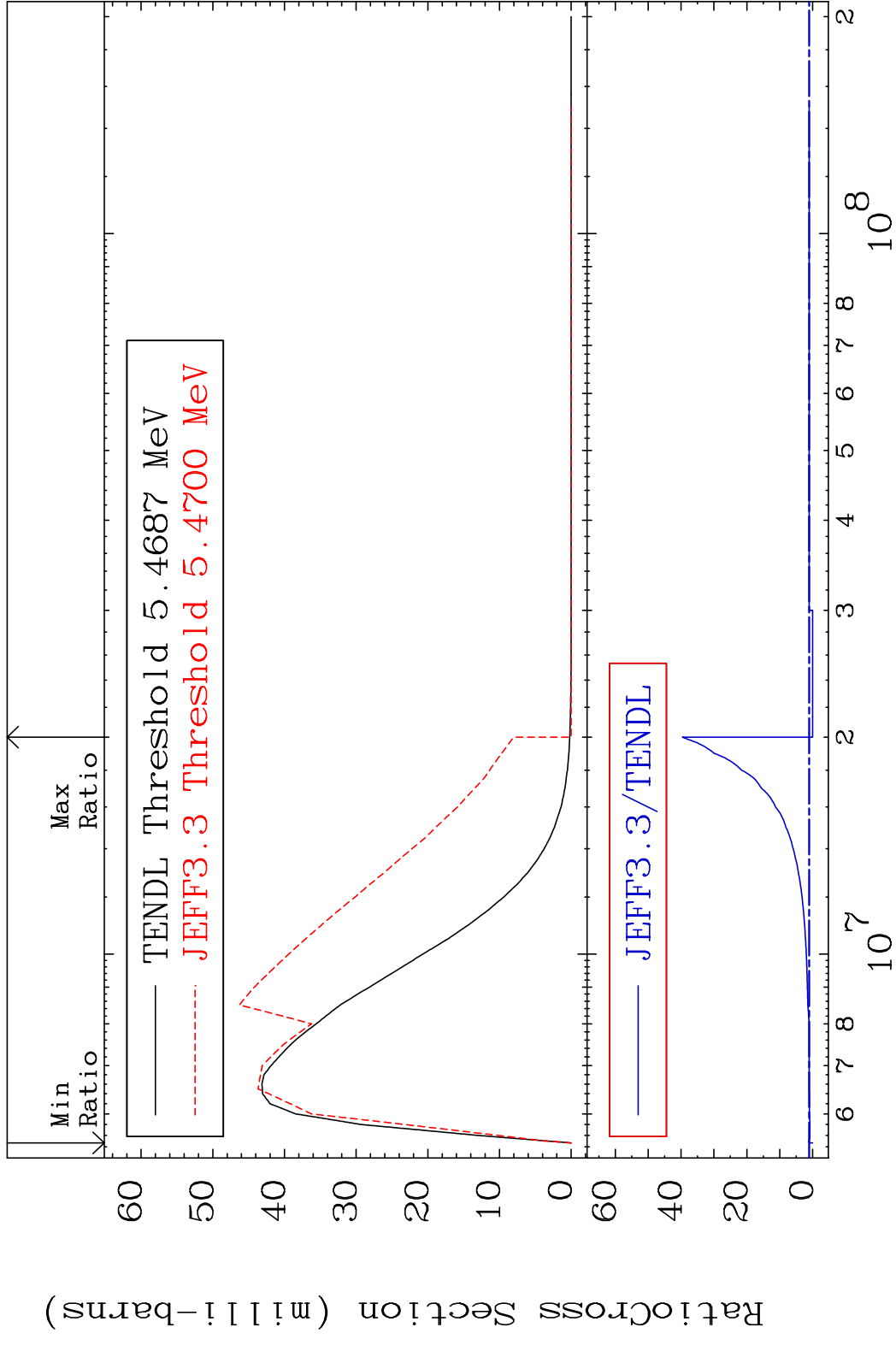
MAT 1428 MT= 60 (n, n') Level 14-Si-29
 Cross Section -100.0 To 4423. %



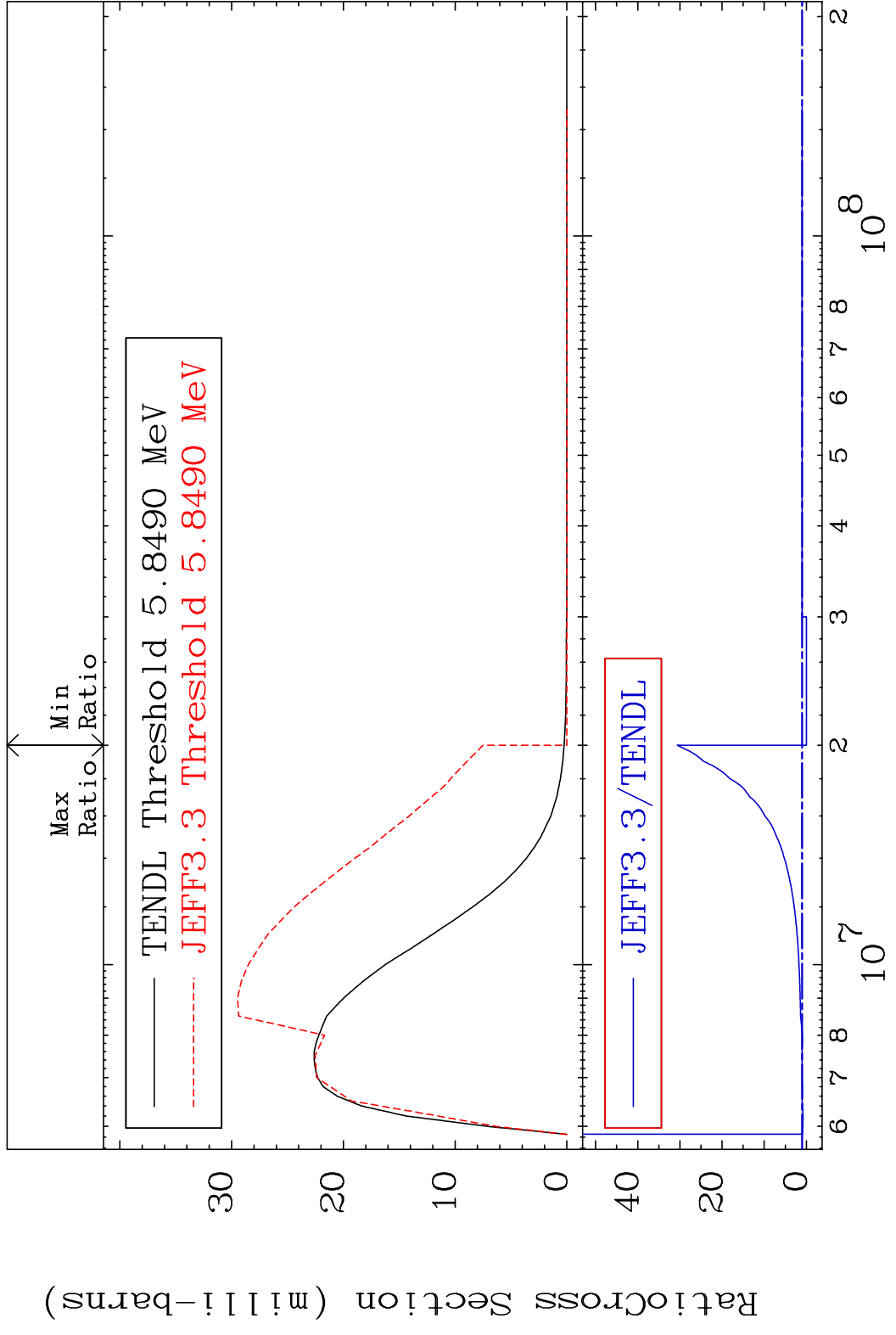
MAT 1428 MT= 61 (n,n') Level 14-Si-29
 Cross Section -100.0 To 3432. %



MAT 1428 MT= 62 (n, n') Level 14-Si-29
 Cross Section -100.0 To 3861. %

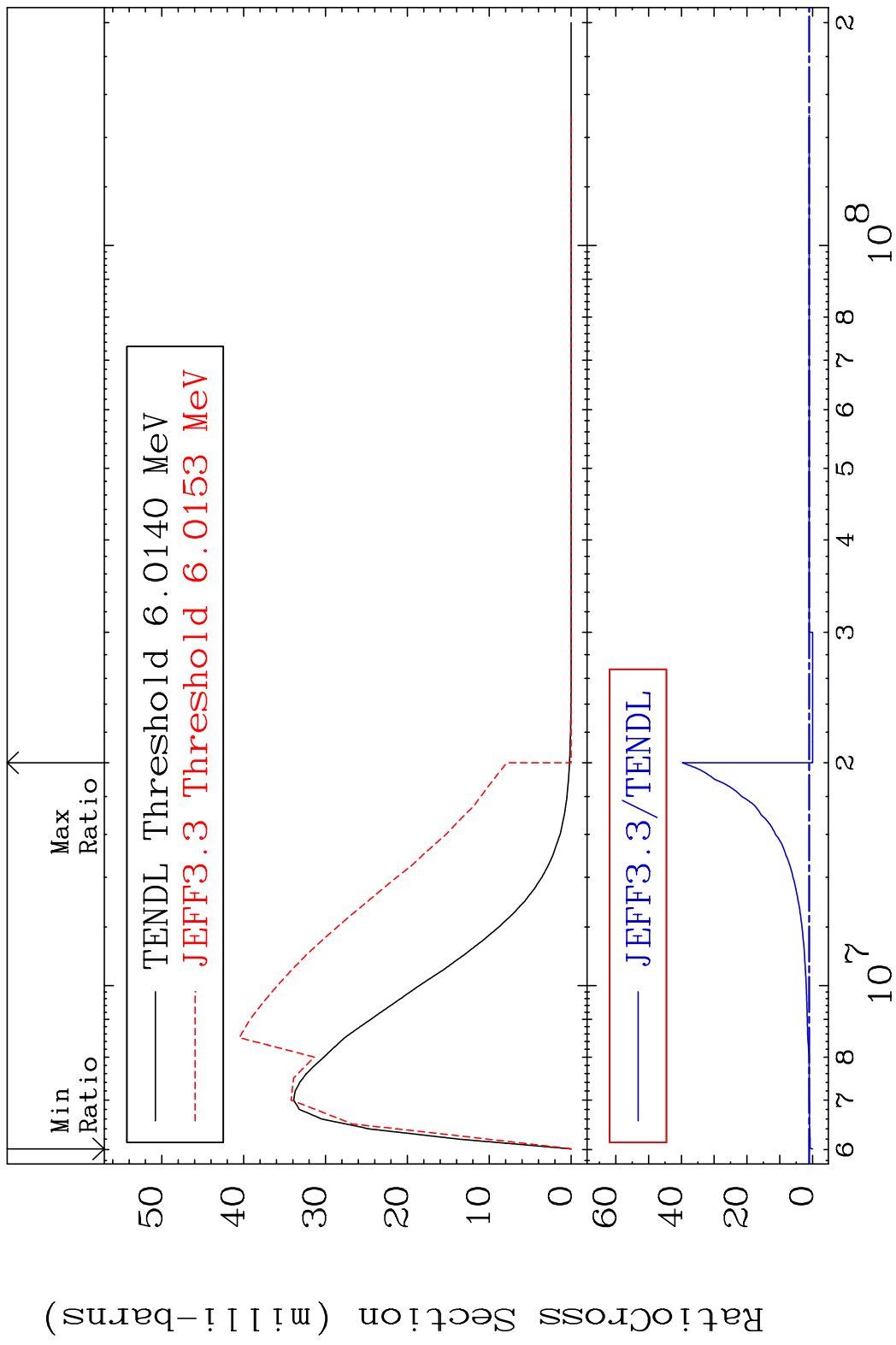


MAT 1428 MT= 63 (n, n') Level 14-Si-29
 Cross Section -100.0 To 2965. %



20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 370 380 390 400 410 420 430 440 450 460 470 480 490 500 510 520 530 540 550 560 570 580 590 600 610 620 630 640 650 660 670 680 690 700 710 720 730 740 750 760 770 780 790 800 810 820 830 840 850 860 870 880 890 900 910 920 930 940 950 960 970 980 990 1000

MAT 1428 MT= 64 (n,n') Level 14-Si-29
 Cross Section -100.0 To 3871. %

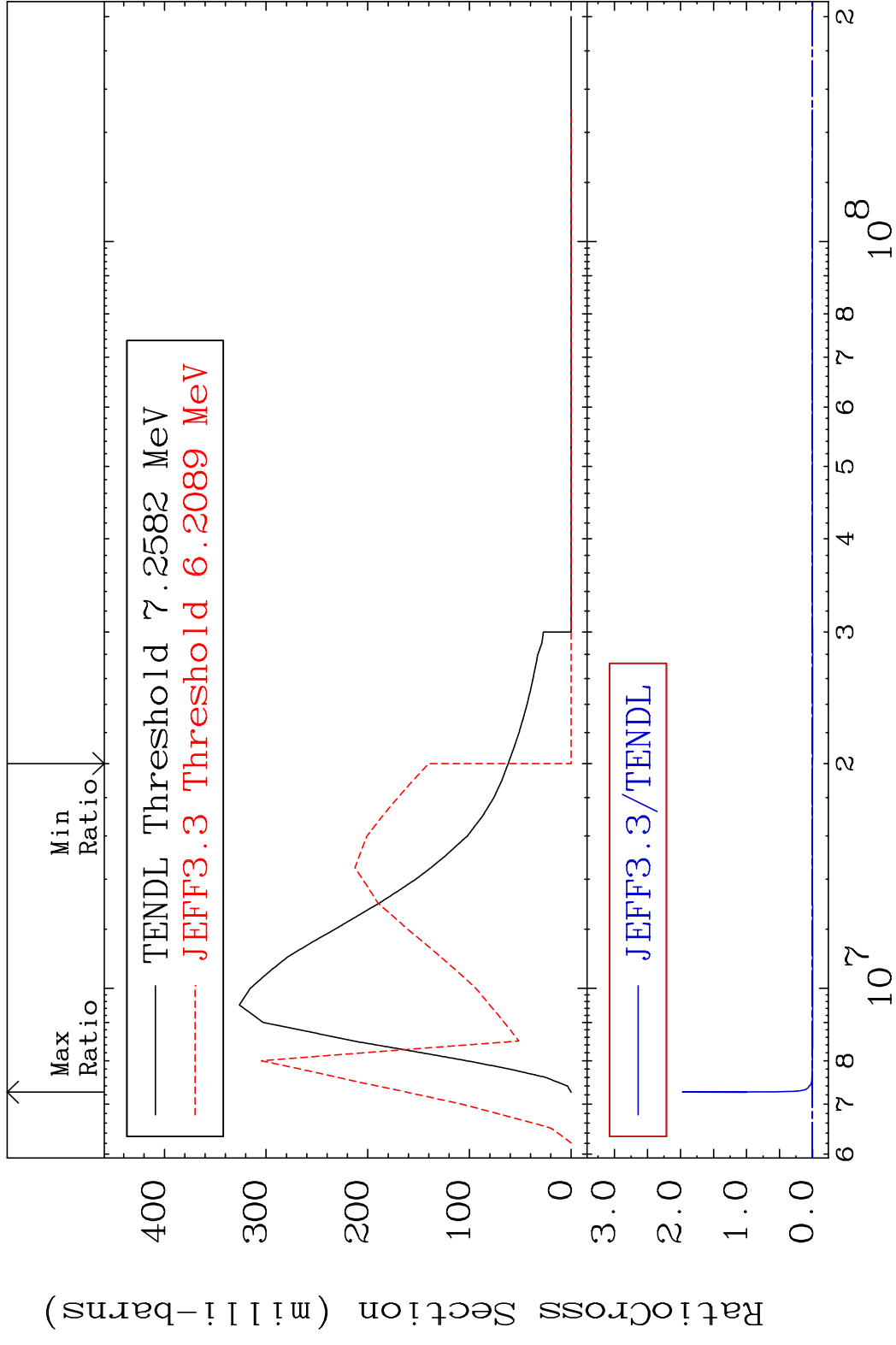


MAT 1428

(n,n') Continuum

14-Si-29

Cross Section -100.0 To 9999. %

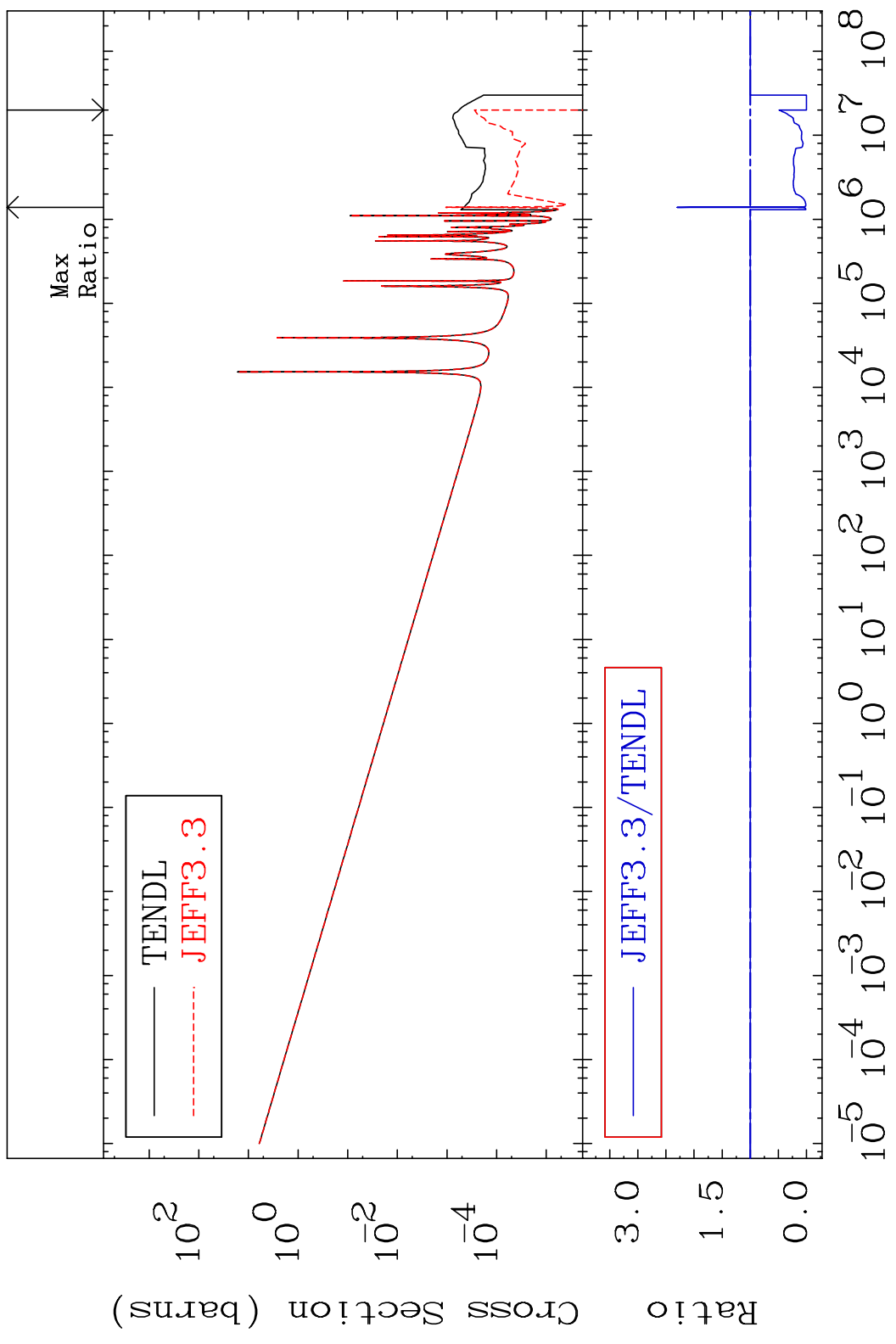


MAT 1428

(n, γ)

14-Si-29

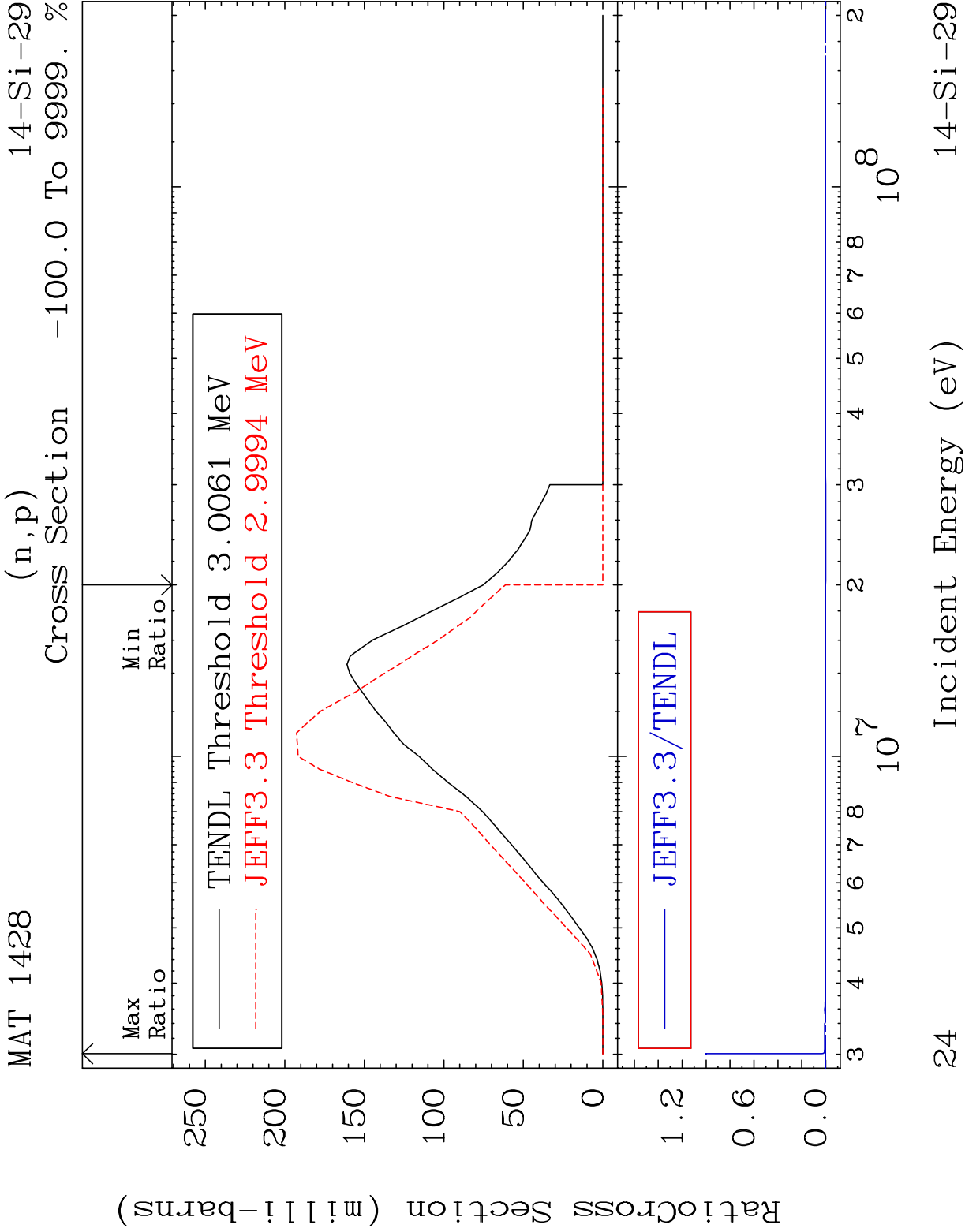
Cross Section -100.0 To 130.1 %



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Incident Energy (eV)

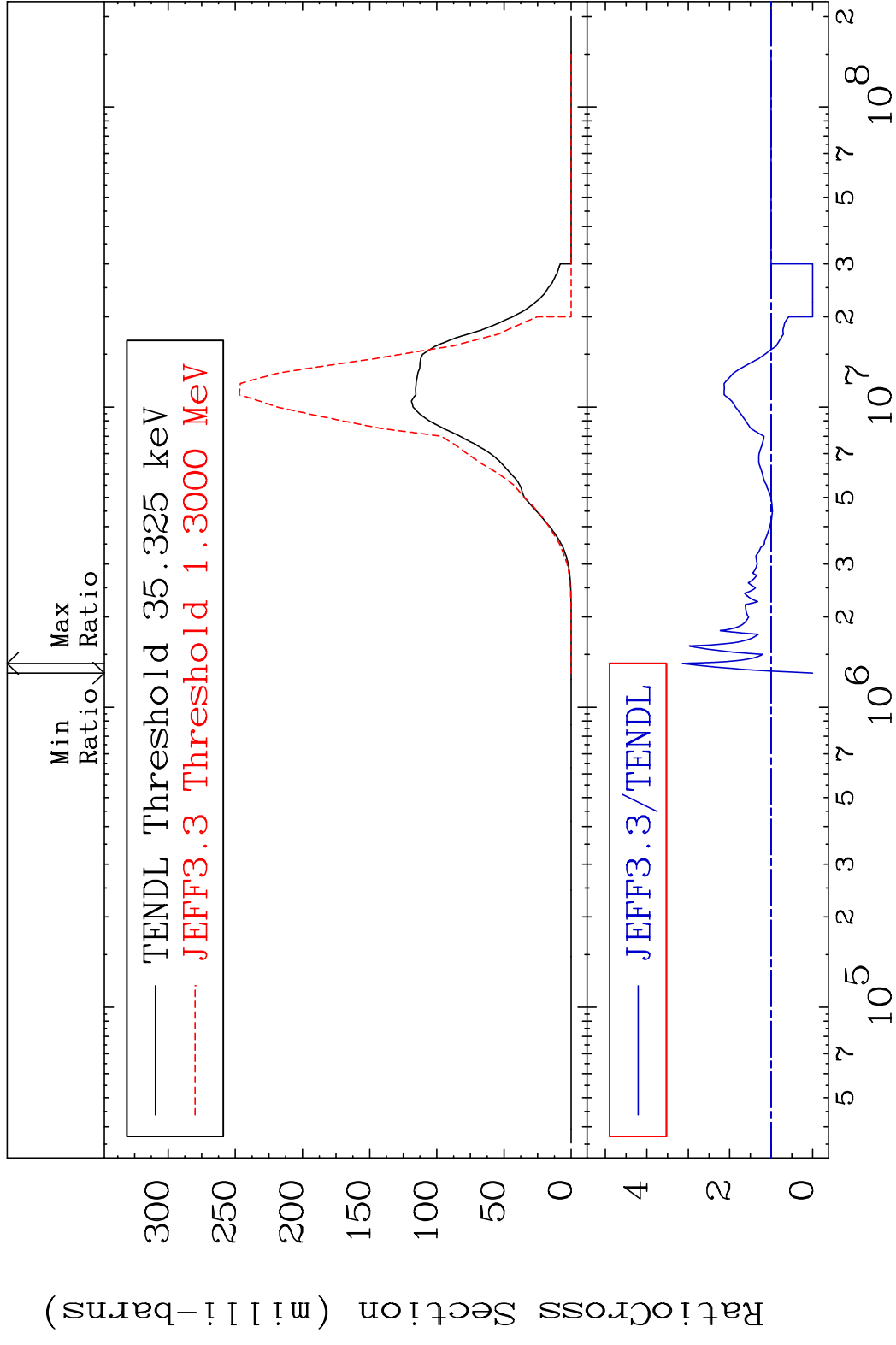
14-Si-29



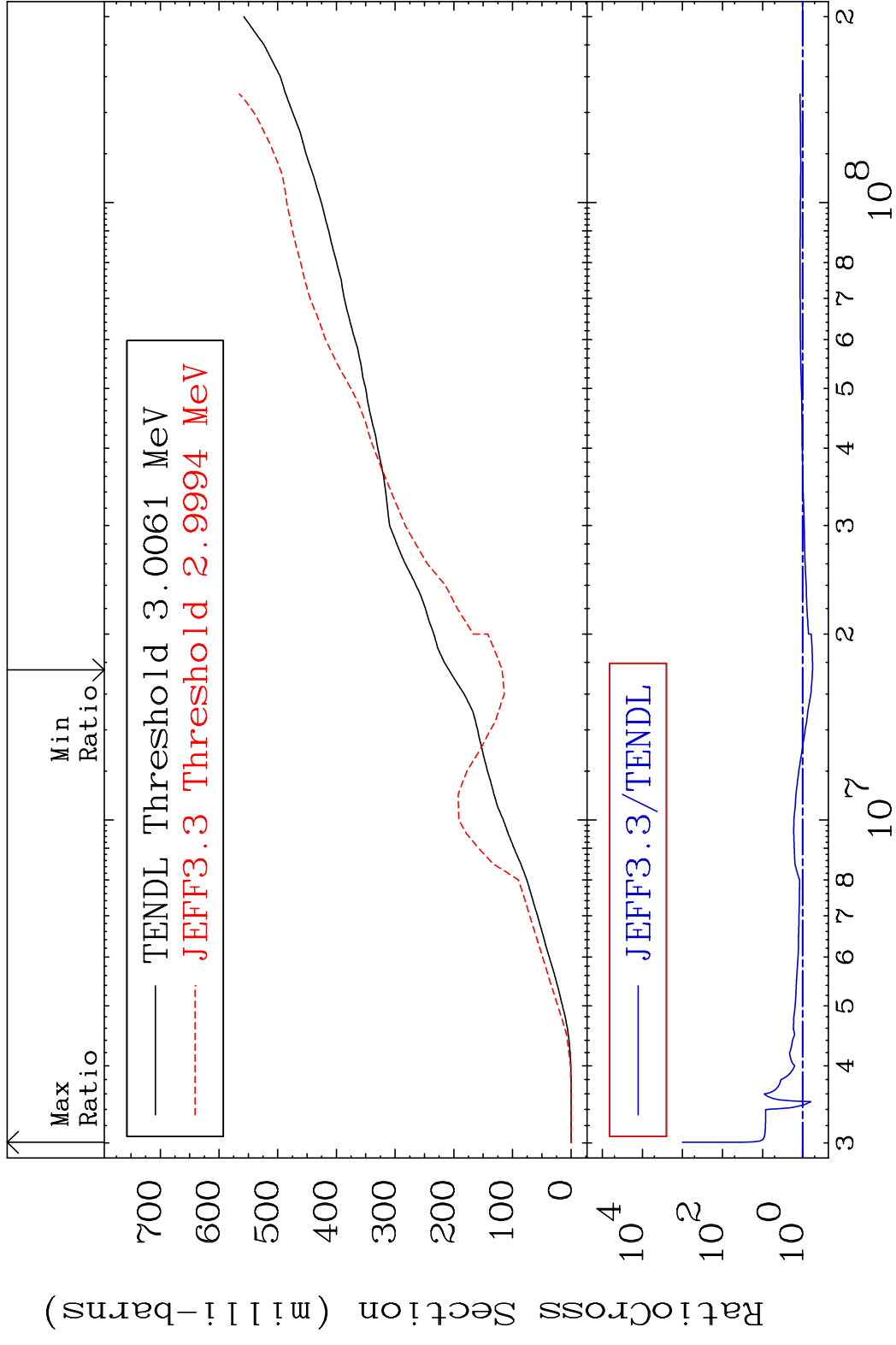
MAT 1428

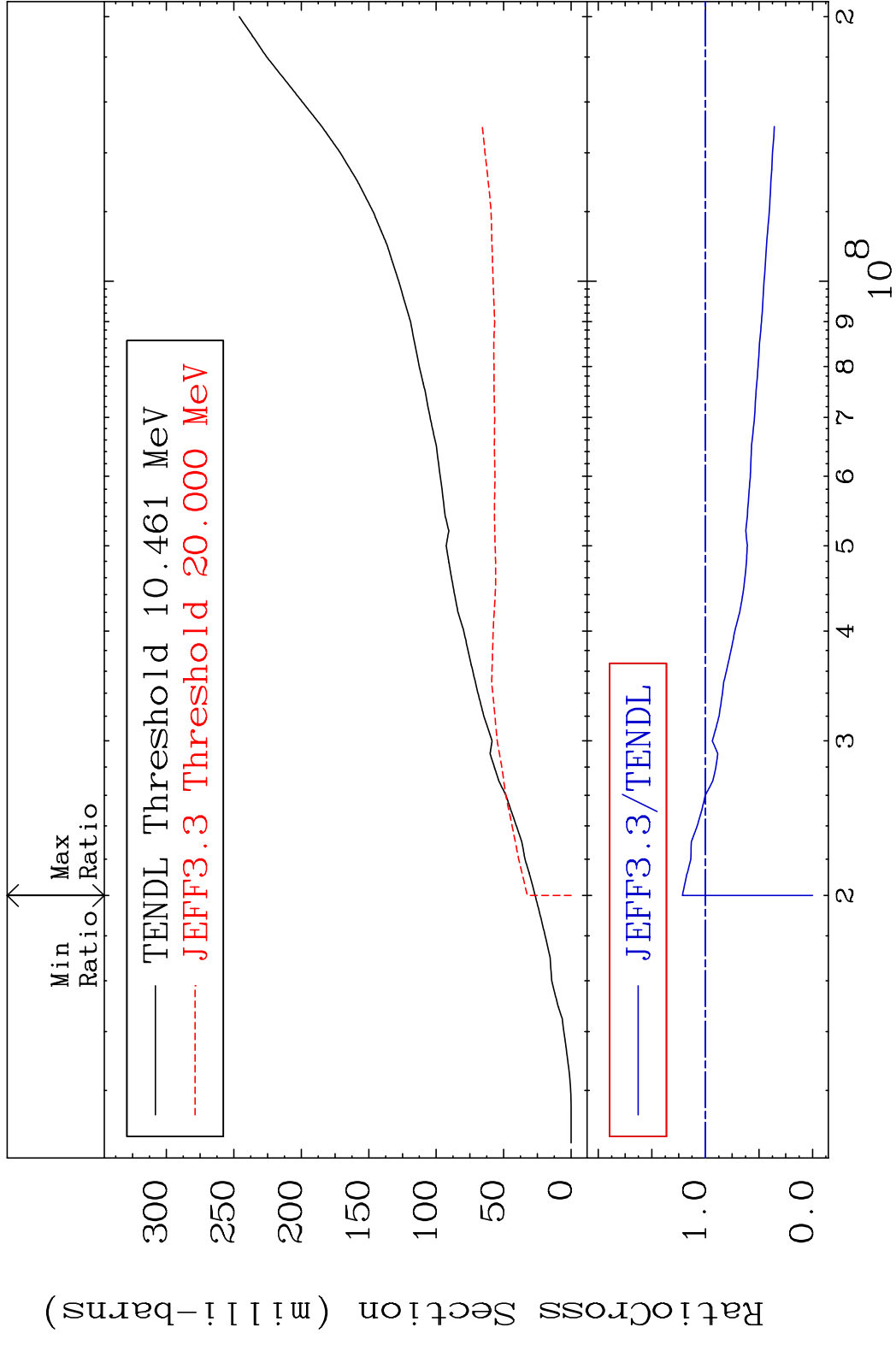
(n, α)
Cross Section -100.0 To 214.2 %

14-Si-29



MAT 1428 Hydrogen Production 14-Si-29
 Cross Section -43.54 To 9999. %

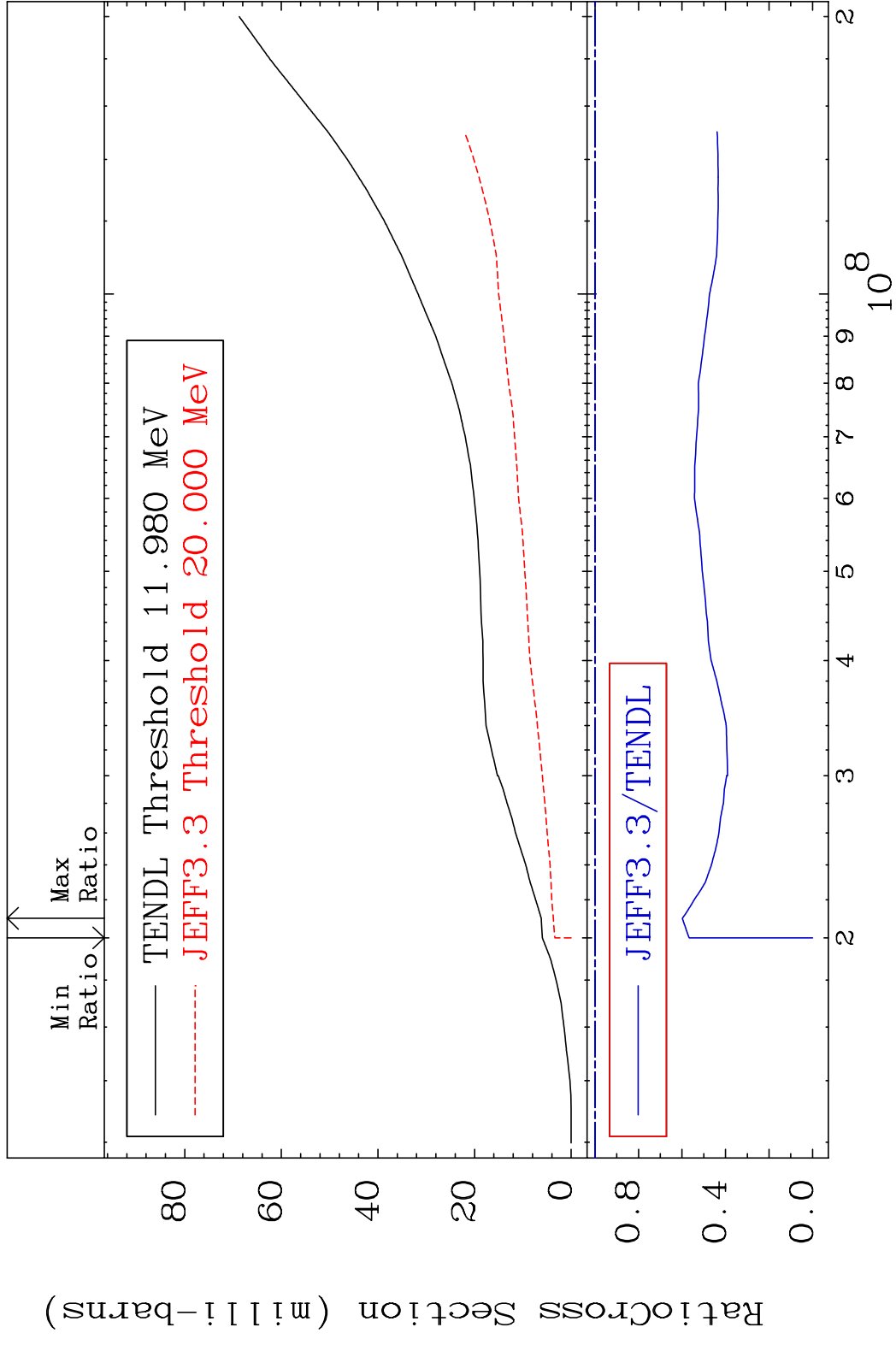




MAT 1428

Tritium Production
Cross Section -100.0 To -40.16%

14-Si-29

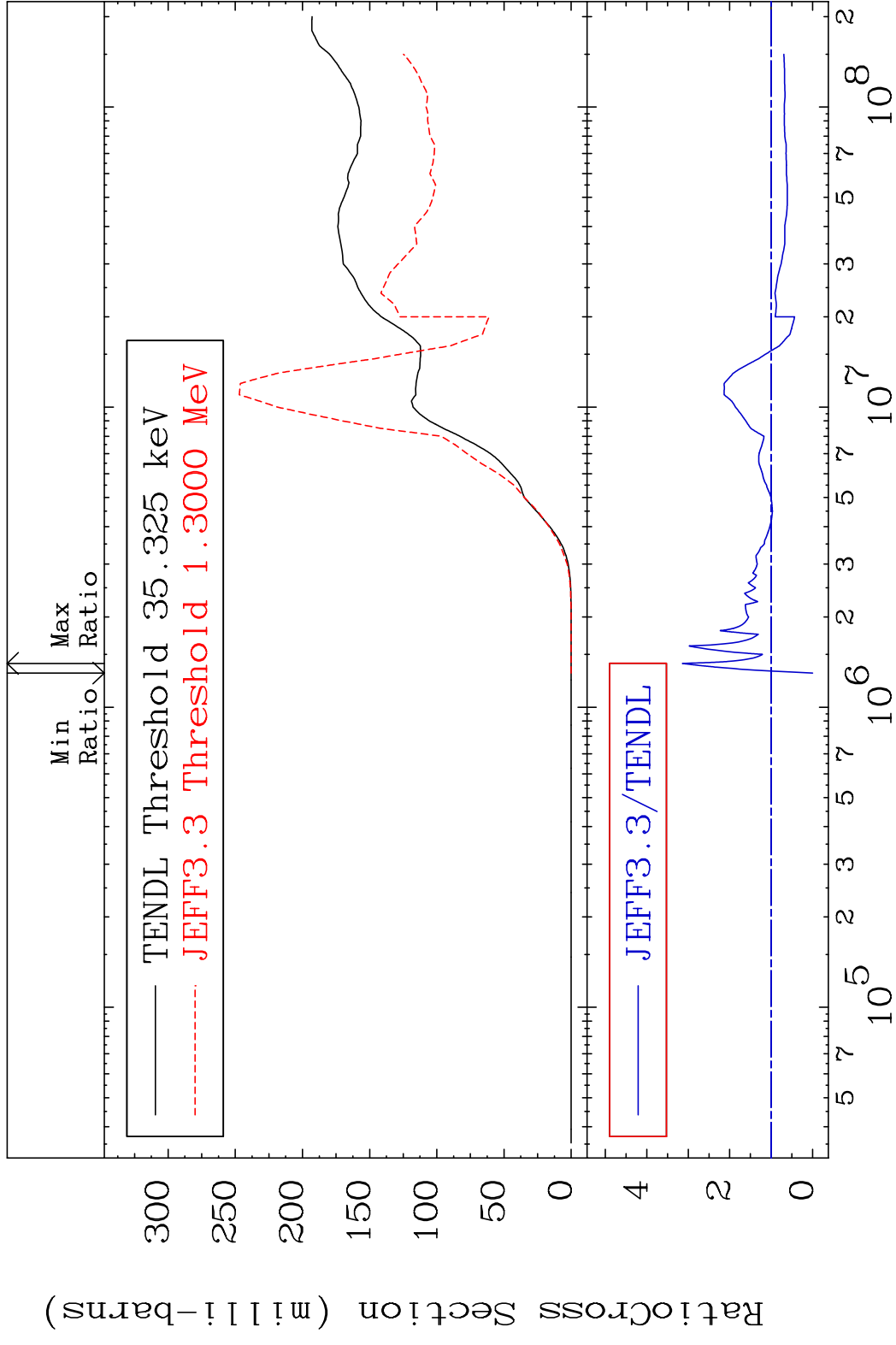


MAT 1428

He-4 Production

¹⁴Si-29

Cross Section -100.0 To 214.2 %



29

Incident Energy (eV)

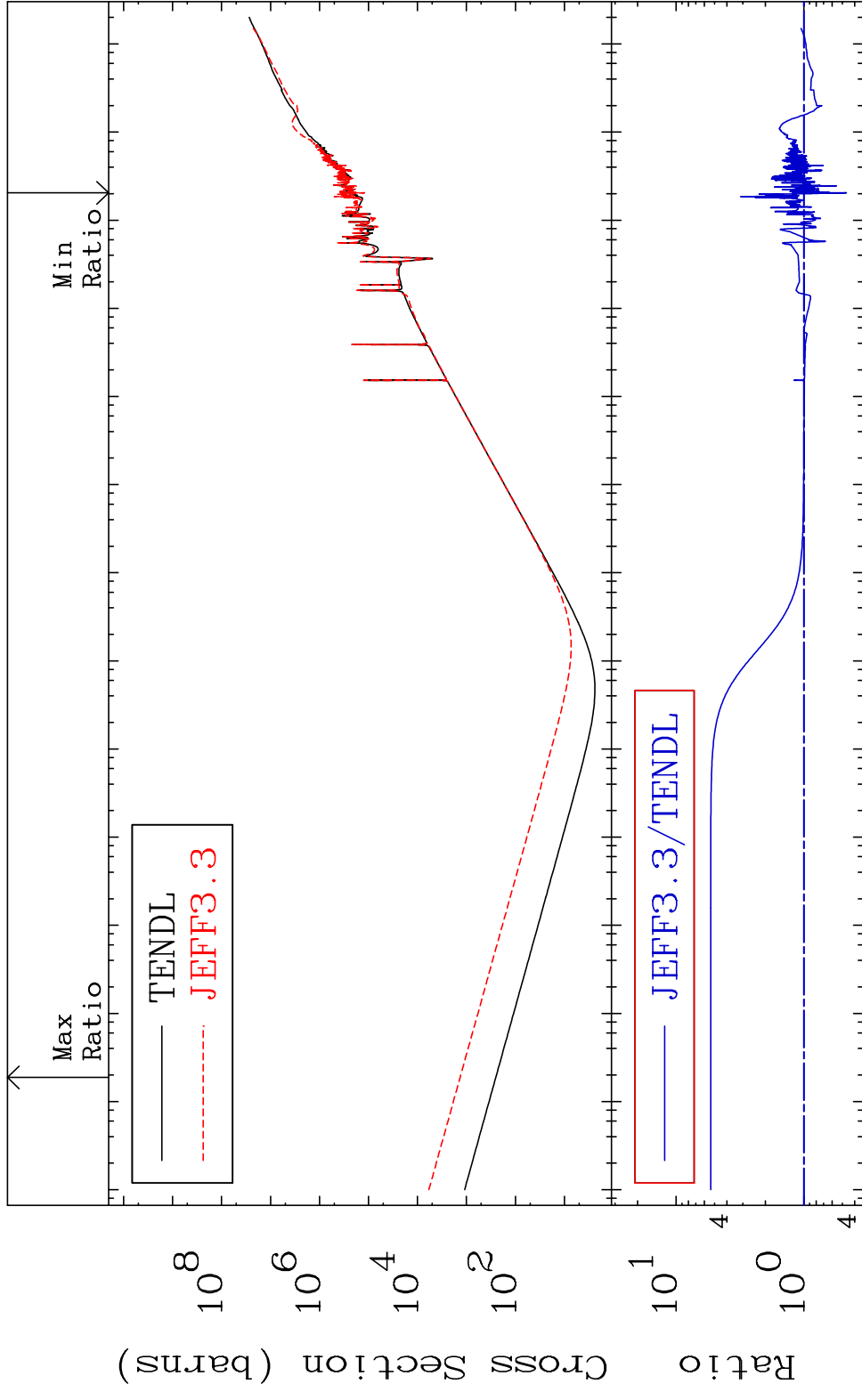
¹⁴Si-29

MAT 1428

Kerma total (eV-barns)

14-Si-29

Cross Section -53.53 To 435.5 %



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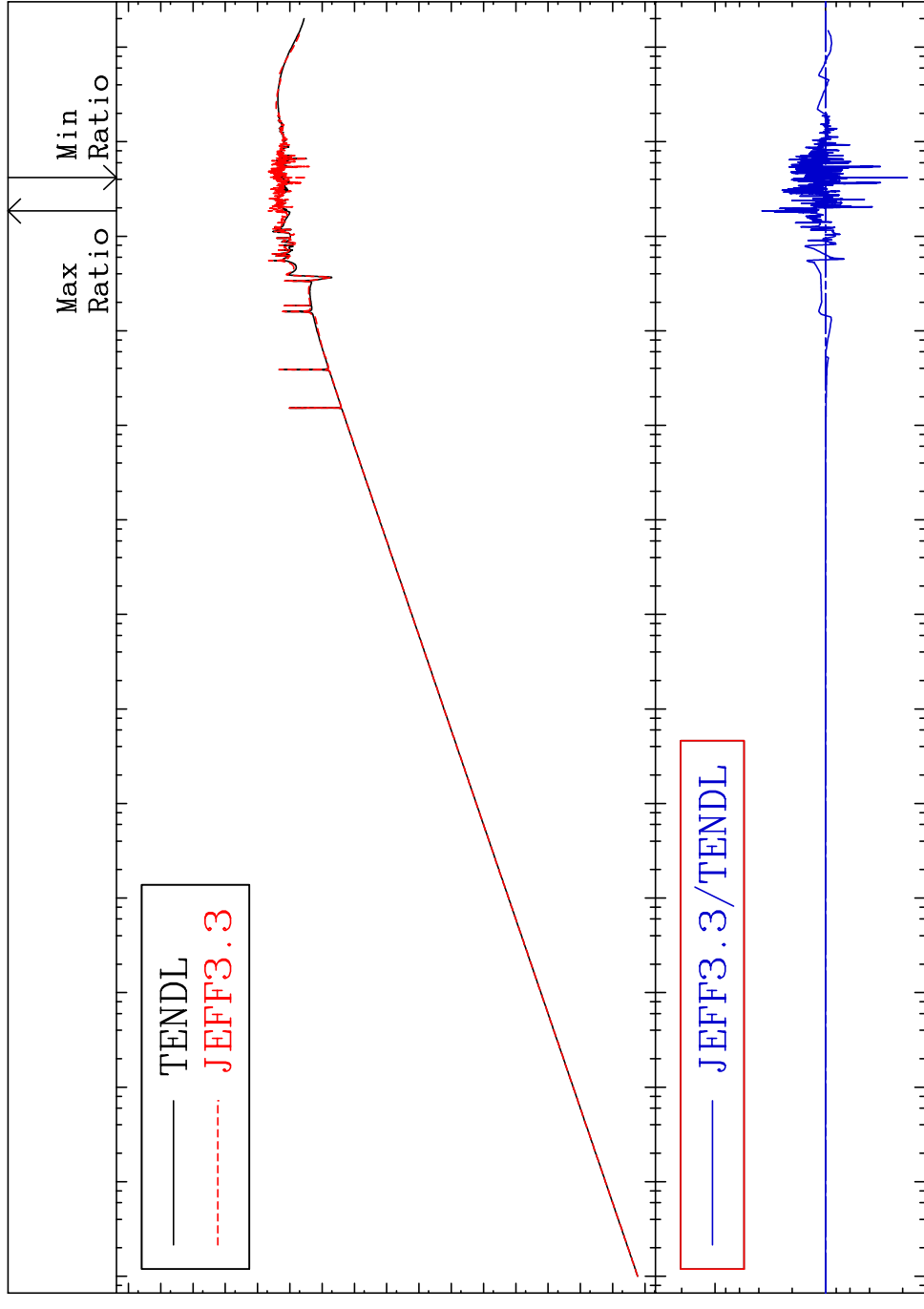
Incident Energy (eV)

14-Si-29

MAT 1428

Kerma elastic
Cross Section -81.78 To 276.6 %

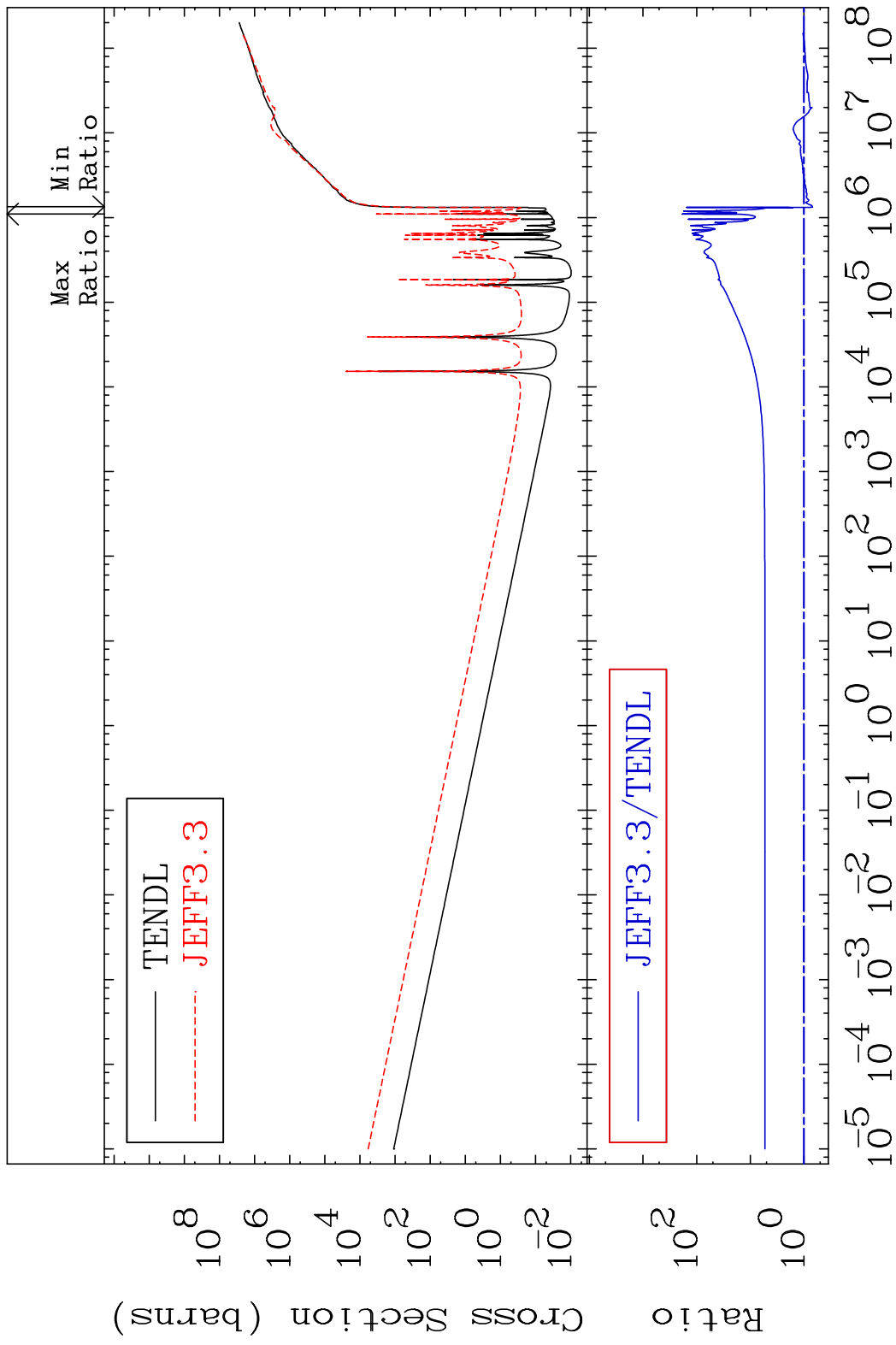
14-Si-29



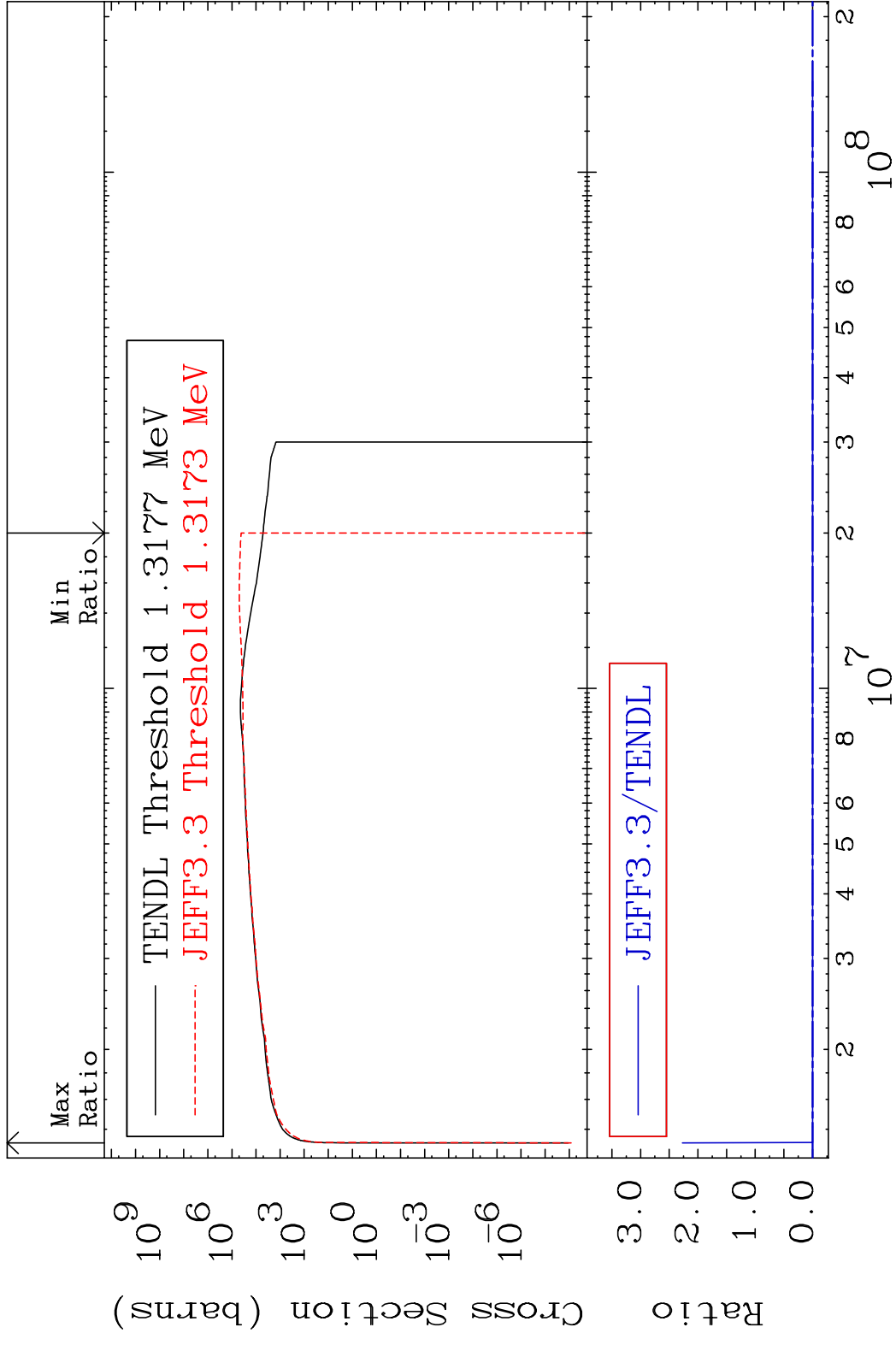
Ratio
Cross Section (barns)

10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸
Incident Energy (eV)

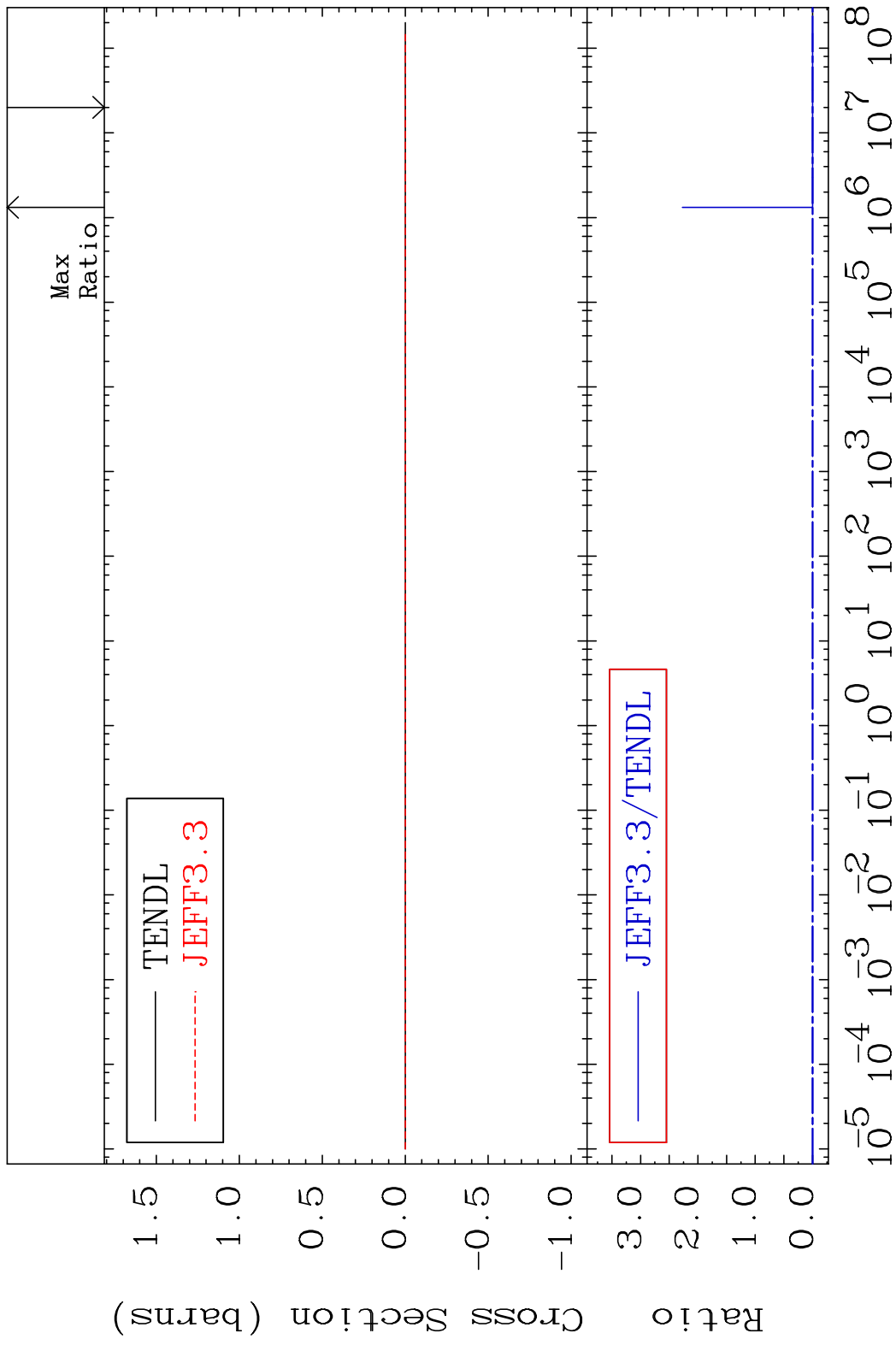
MAT 1428 Kerma non-elastic (all but mt2) 14-Si-29
 Cross Section -30.71 To 9999. %



MAT 1428 Kerma inelastic (mt51-91) 14-Si-29
 Cross Section -100.0 To 9999. %

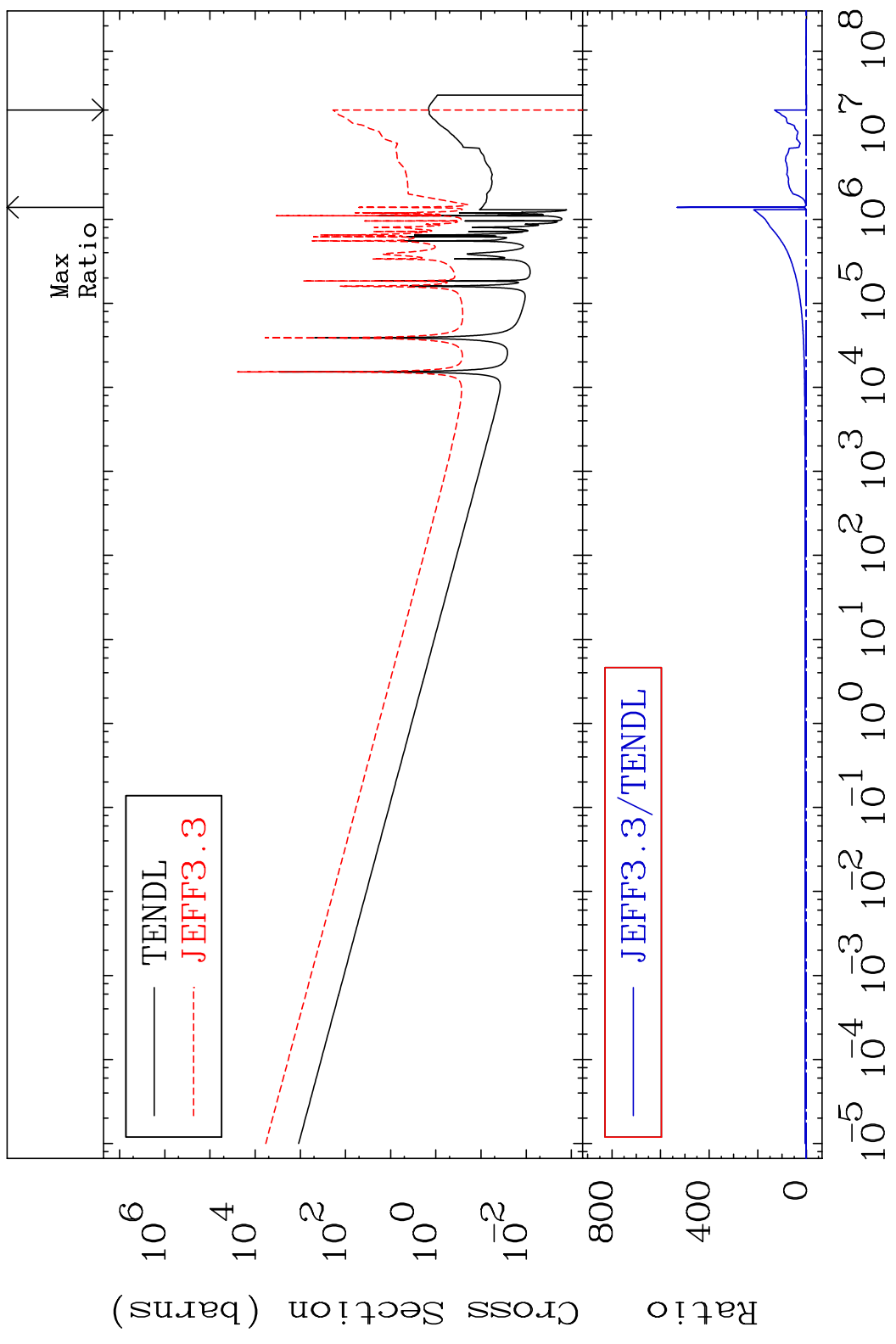


MAT 1428 Kerma fission (mt18 or mt19-20-21-38) 14-Si-29
 Cross Section -100.0 To 9999. %



MAT 1428

Kerma capture (mt102) 14-Si-29
Cross Section -100.0 To 9999. %



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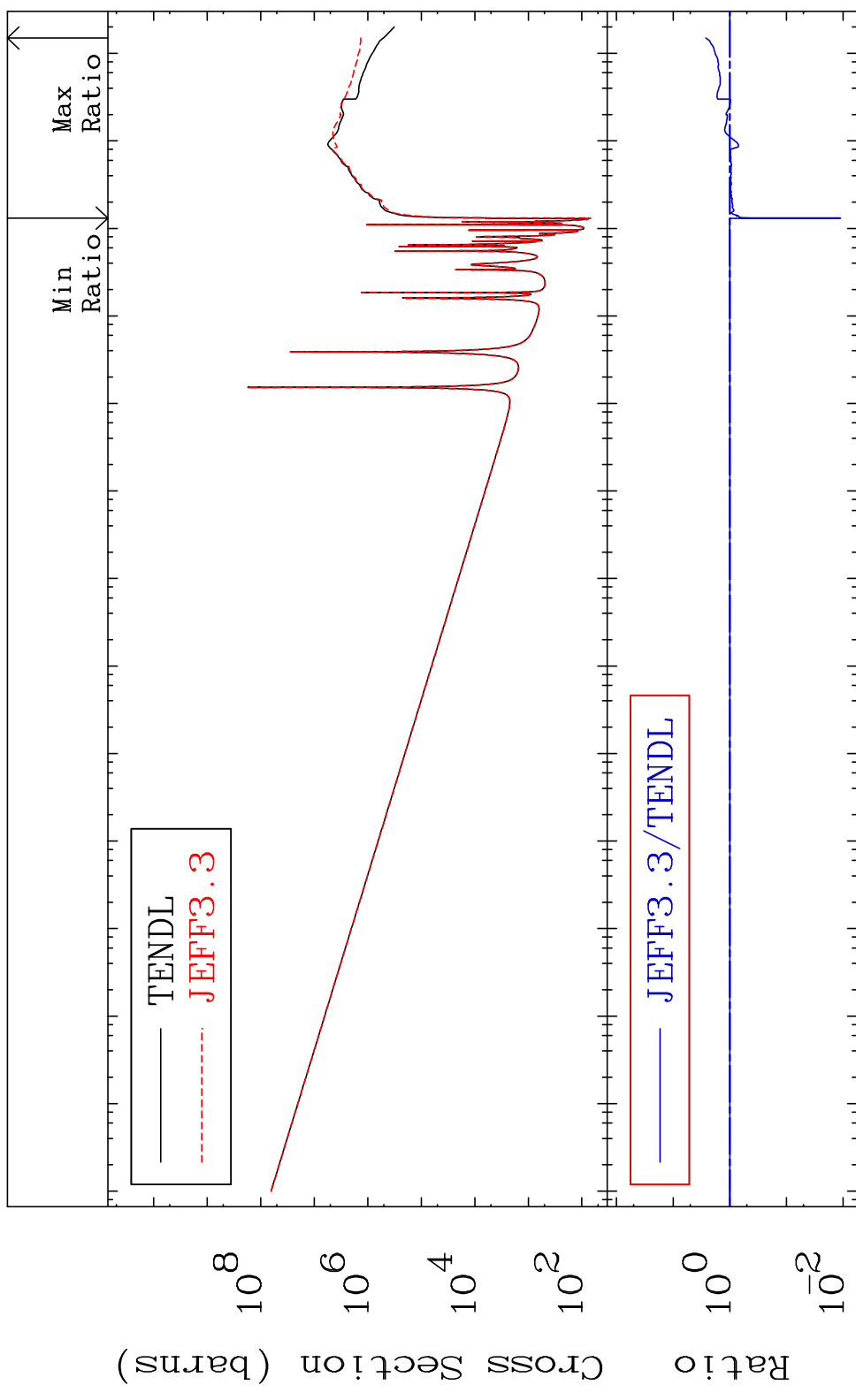
Incident Energy (eV) 14-Si-29

MAT 1428

Total photon (eV-barns)

14-Si-29

Cross Section -98.89 To 165.4 %

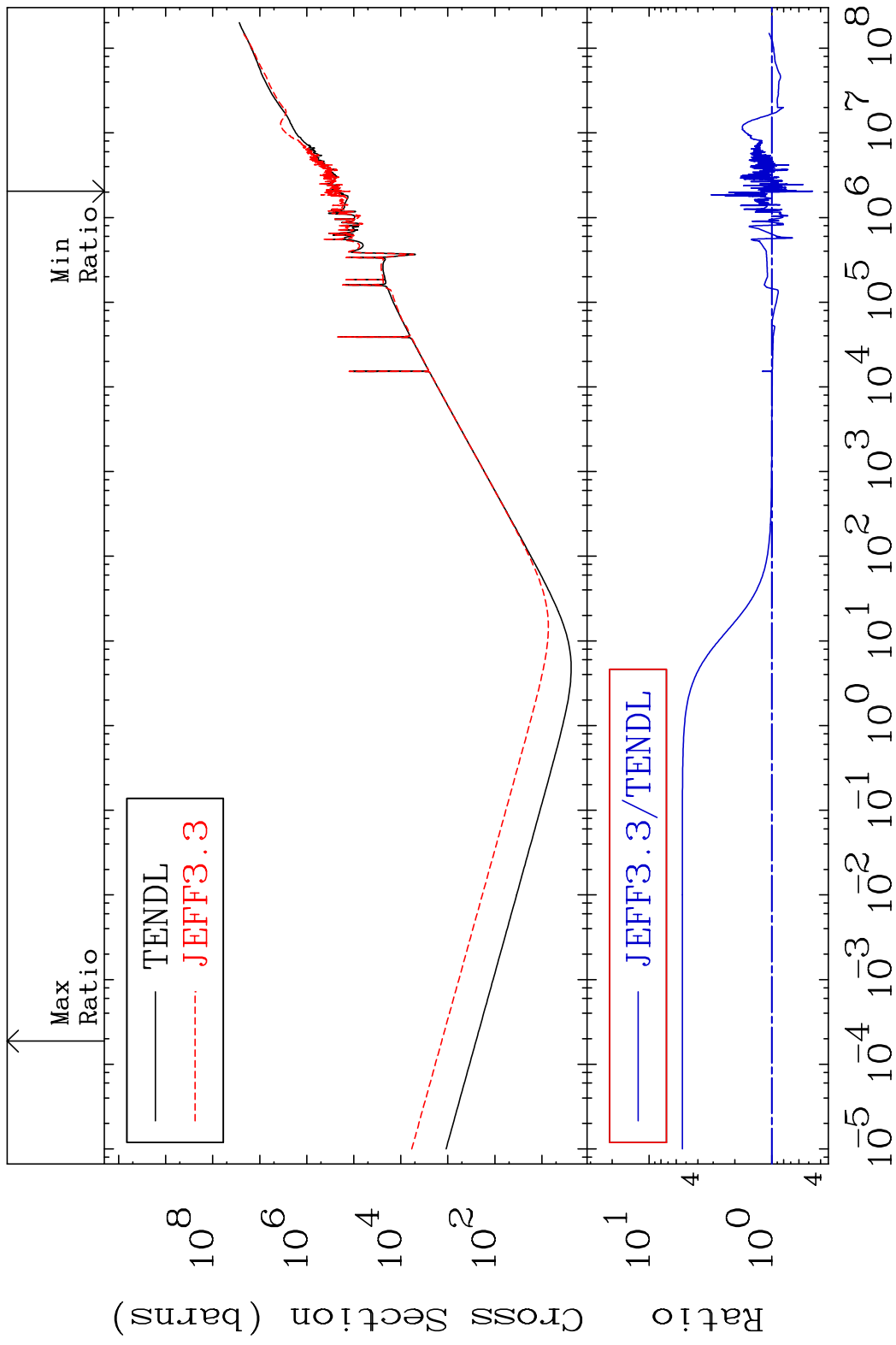


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Incident Energy (eV)

14-Si-29

MAT 1428 Total kinematic kerma (high limit) 14-Si-29
 Cross Section -53.53 To 435.5 %

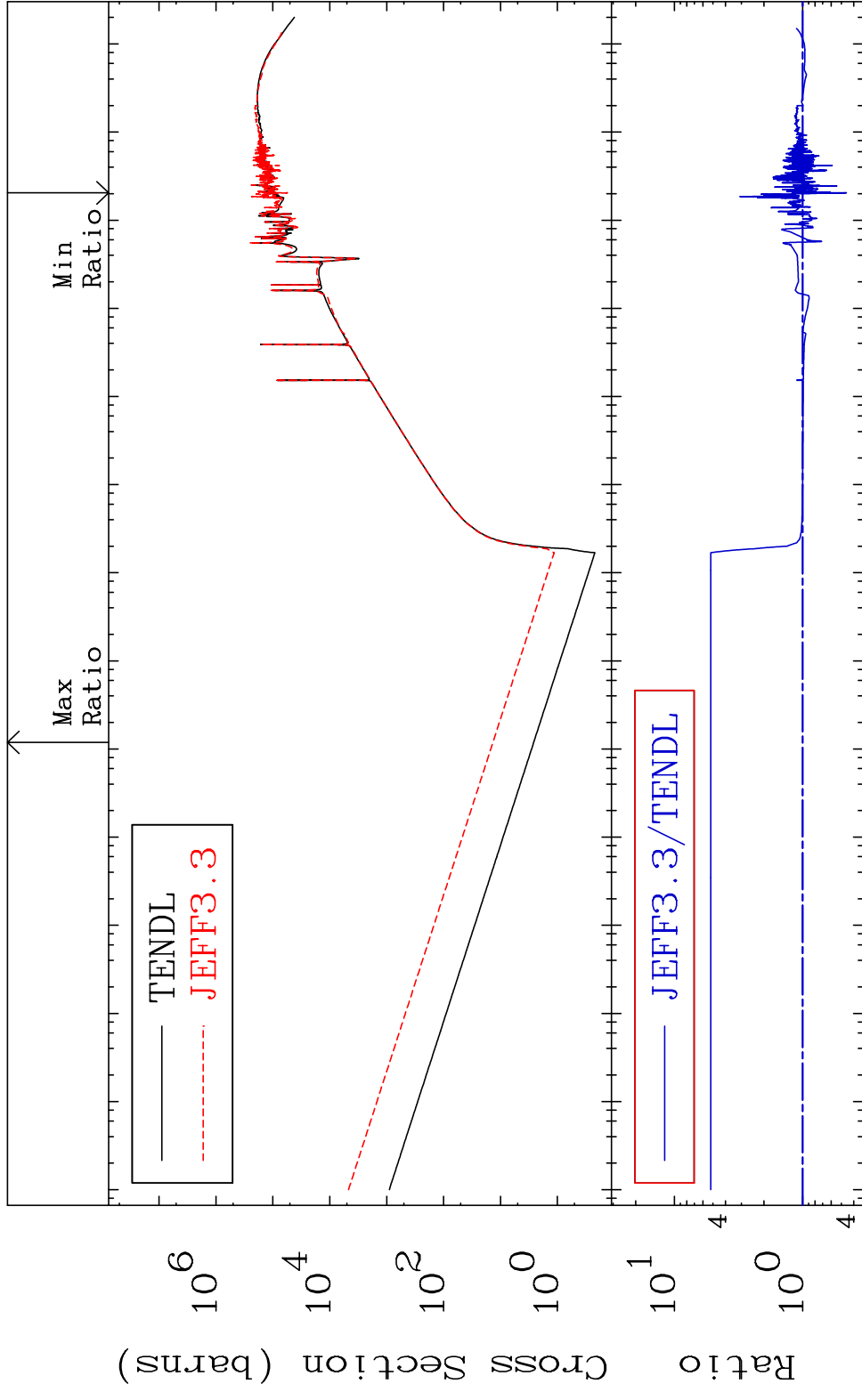


MAT 1428

Dpa total (eV-barns)

14-Si-29

Cross Section -54.29 To 421.0 %

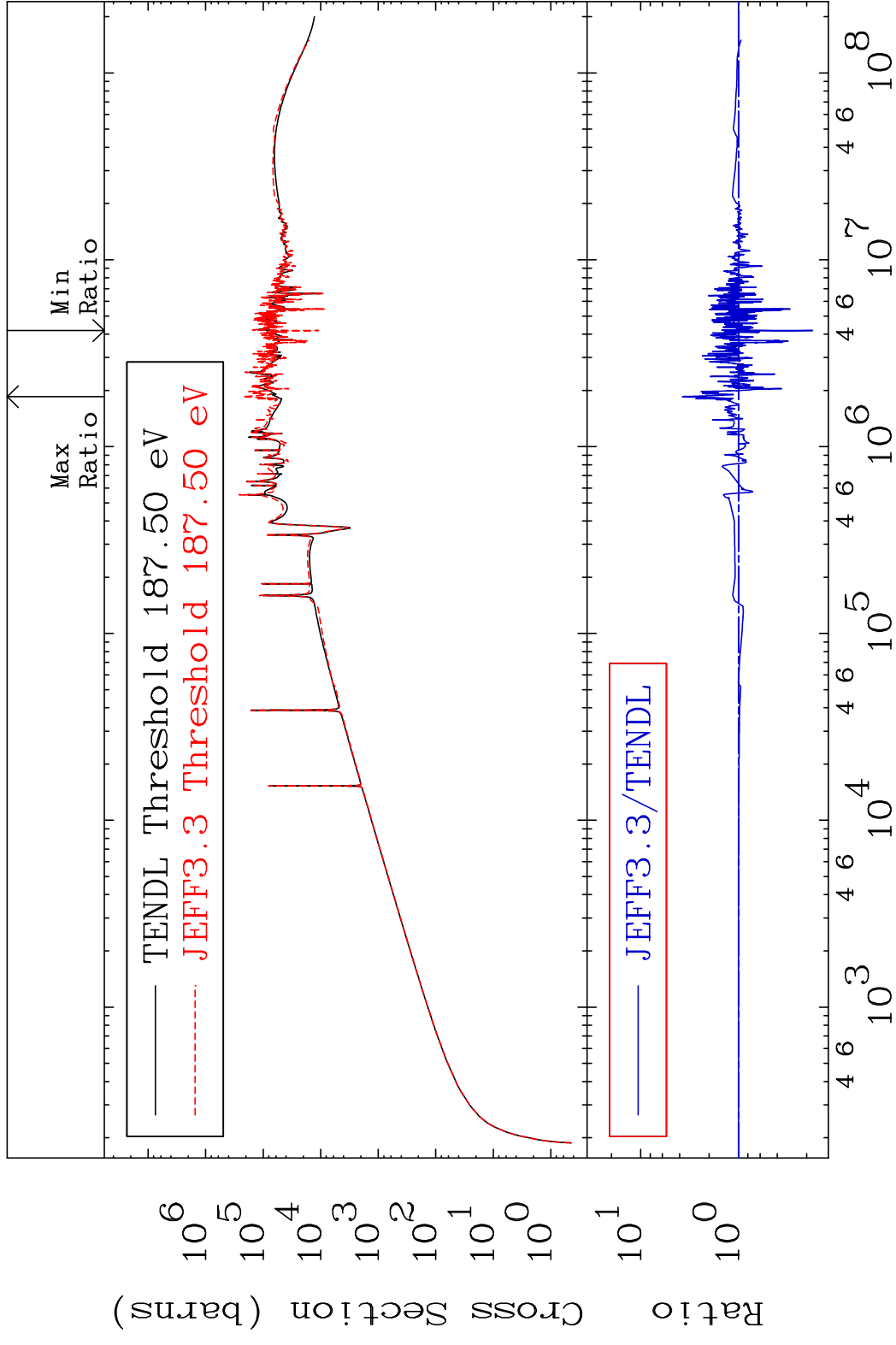


MAT 1428

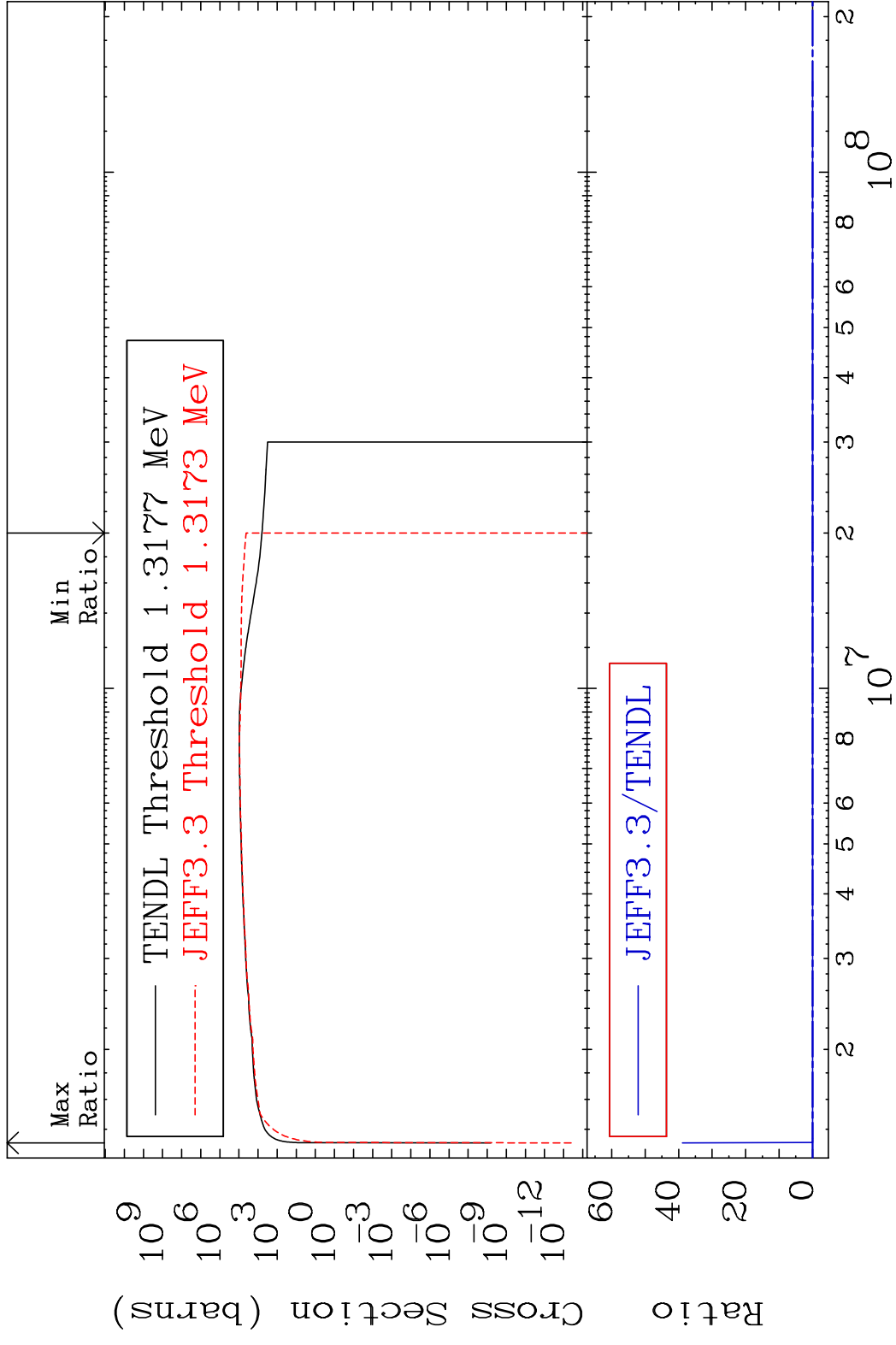
Dpa elastic (mt2)

¹⁴Si-29

Cross Section -82.60 To 274.9 %



MAT 1428 Dpa inelastic (mt51-91) 14-Si-29
 Cross Section -100.0 To 9999. %



40 Incident Energy (eV) 14-Si-29

MAT 1428 Dpa disappearance (mt102 -120) 14-Si-29
 Cross Section -100.0 To 895.5 %

