

Program Complot
(Version 2021-1)

by

Dermott E. Cullen
(Present Contact Information)

Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.

Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

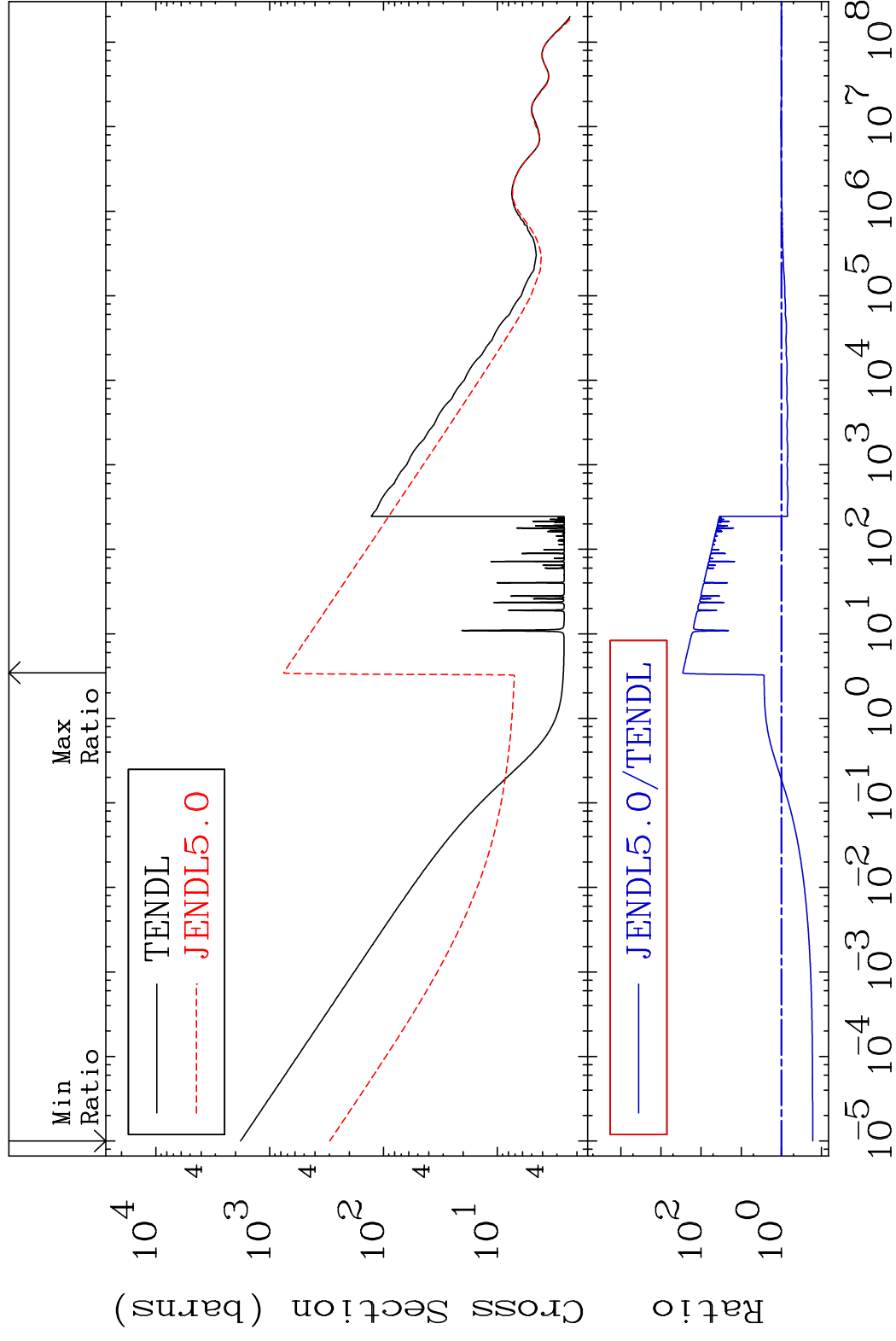
Press Mouse Button to Start

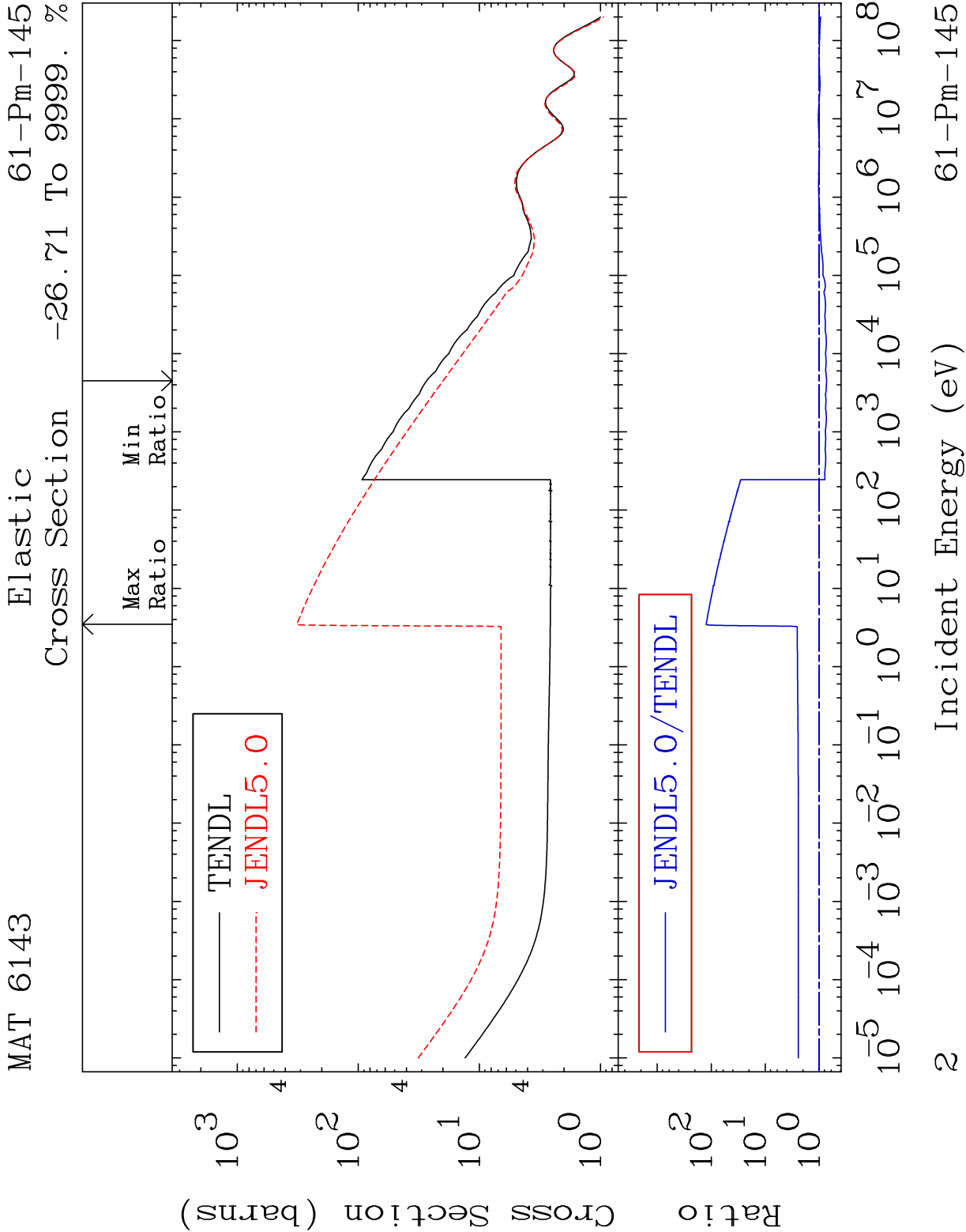
MAT 6143

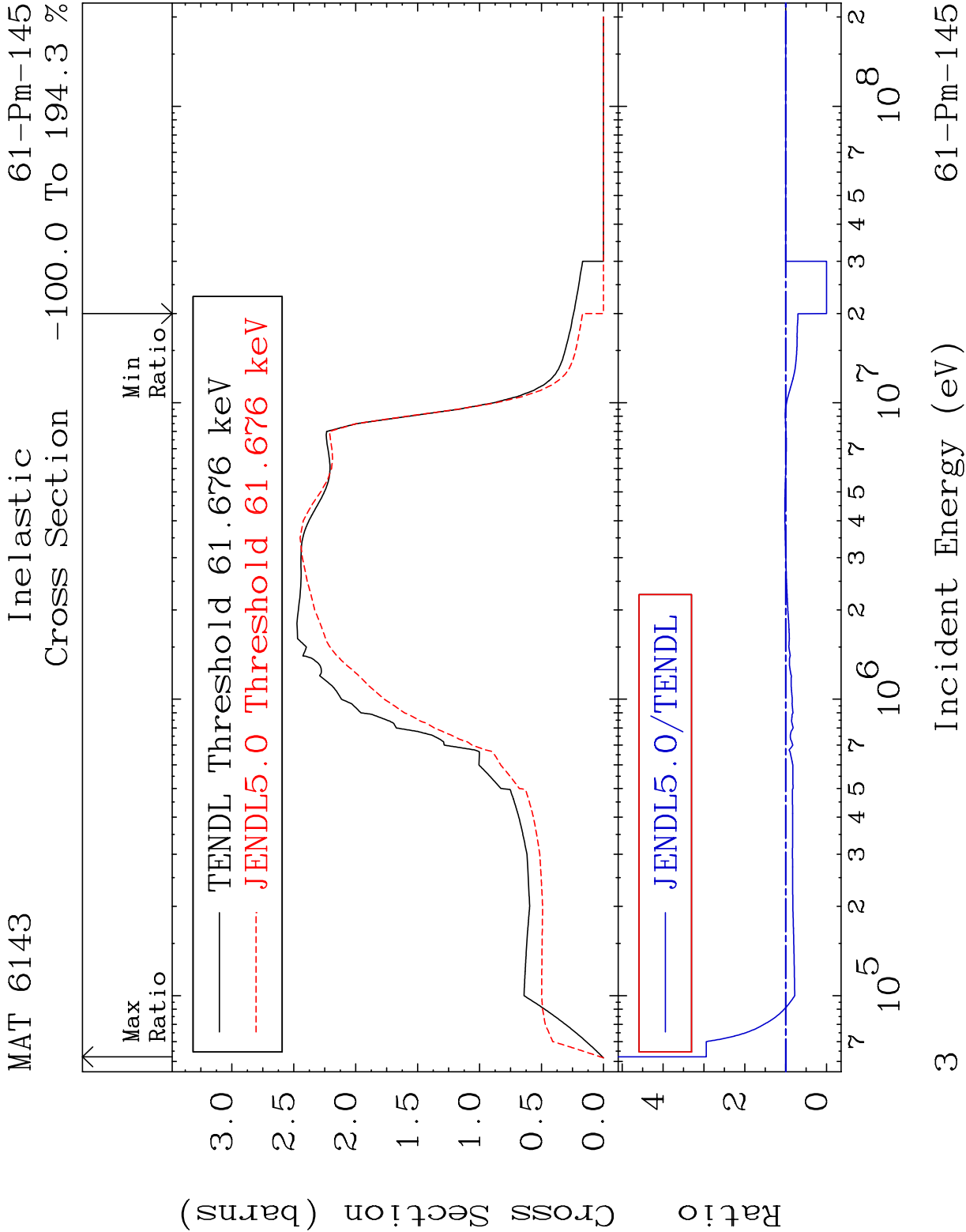
Total

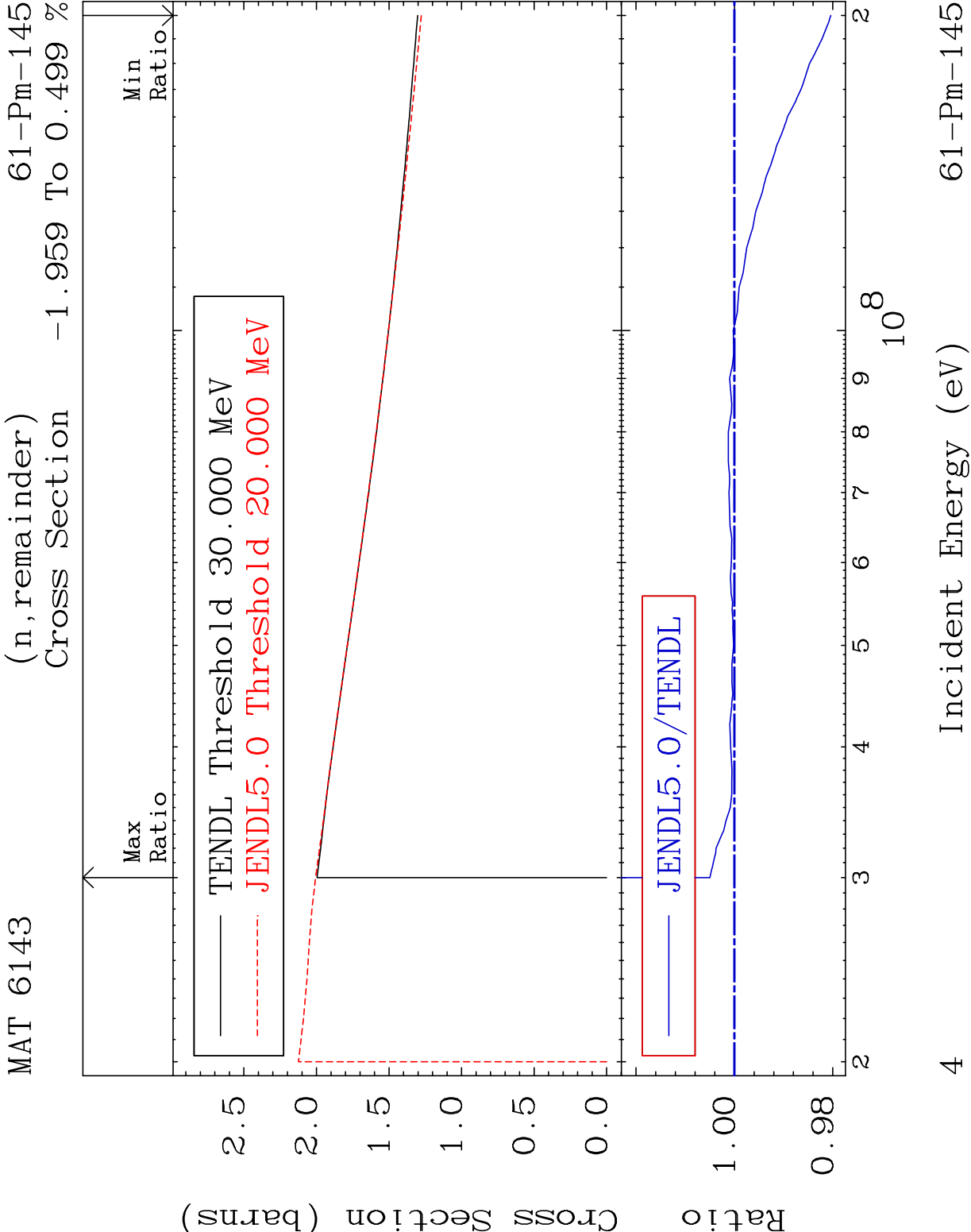
61-Pm-145

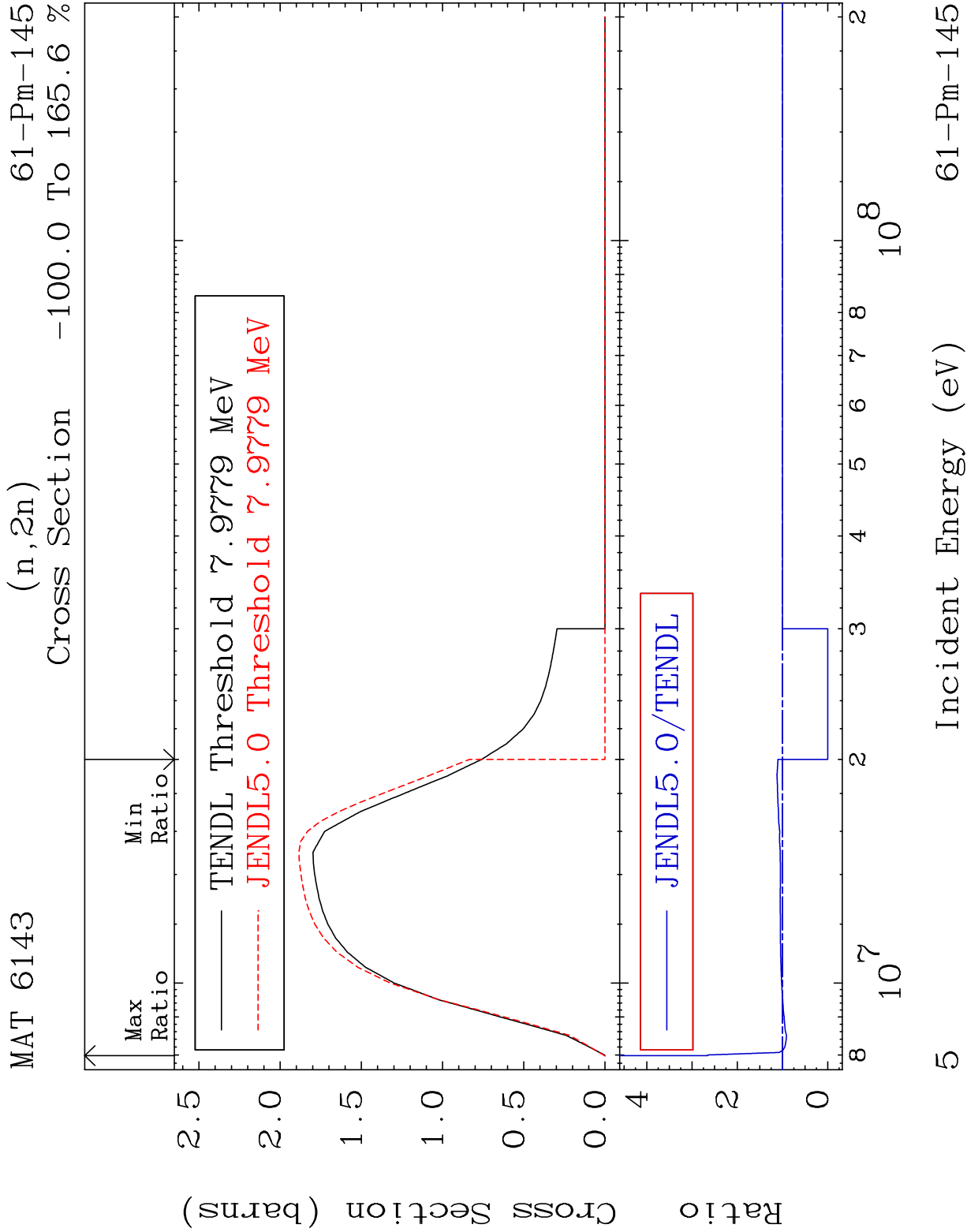
Cross Section -83.53 To 9999. %

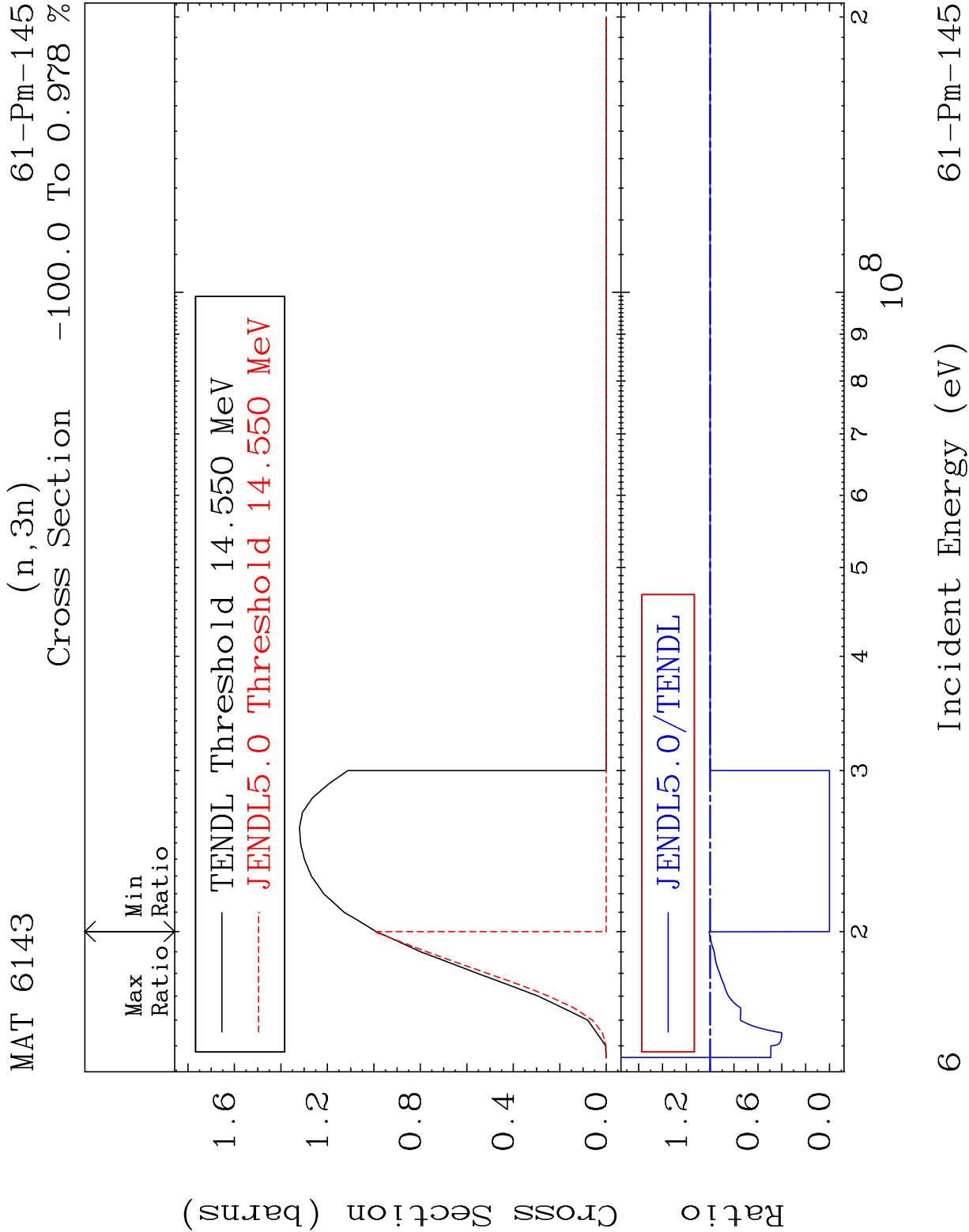


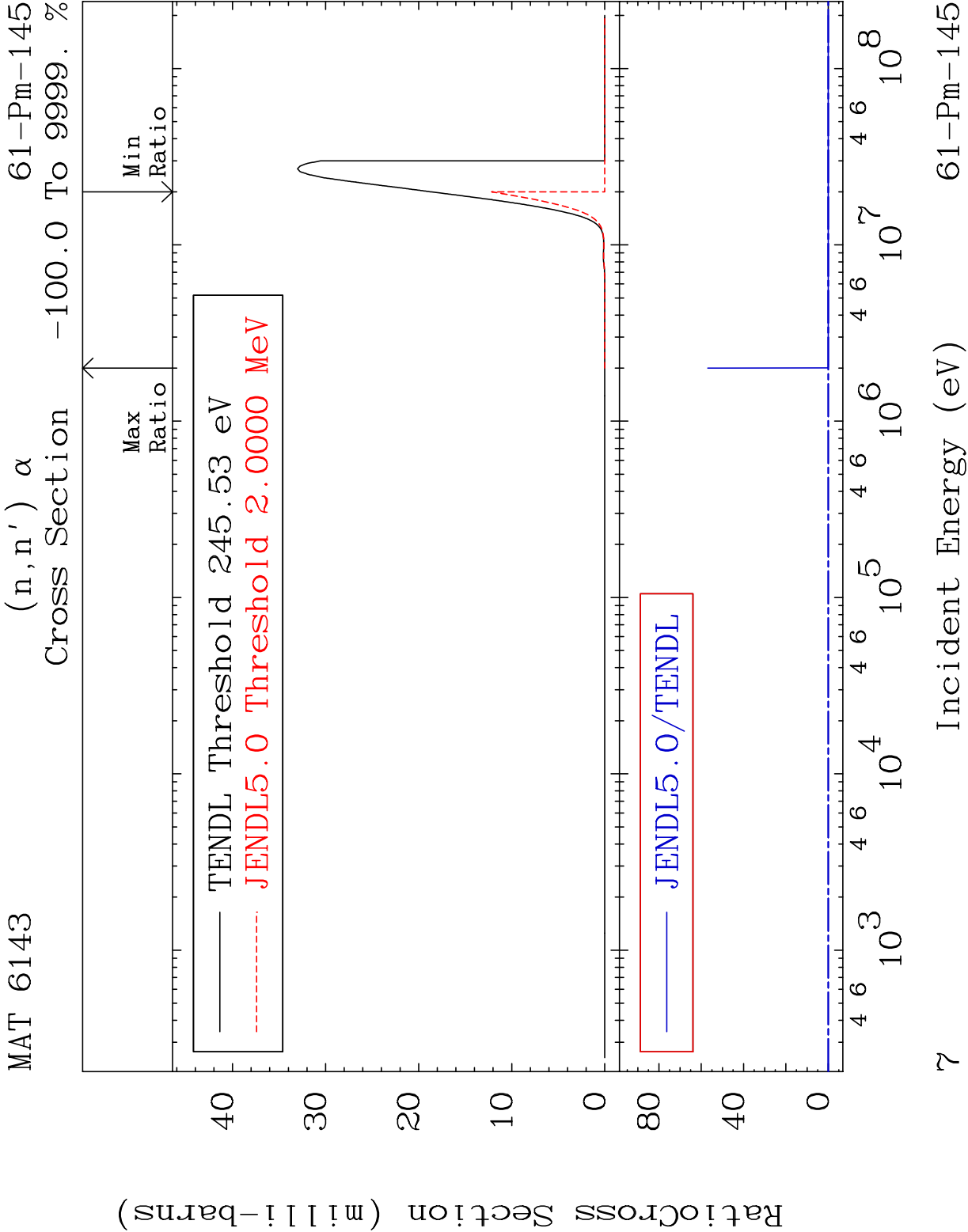


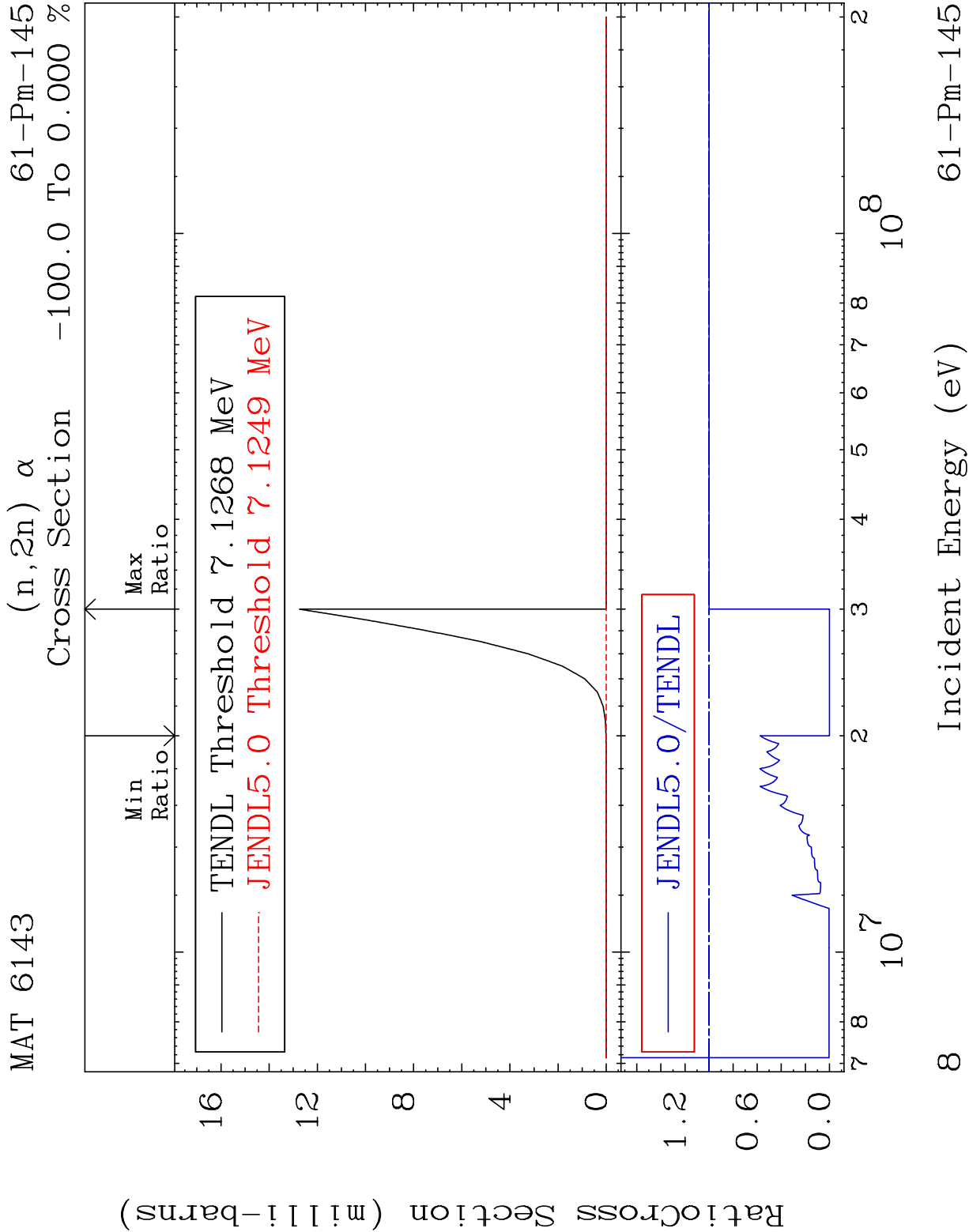


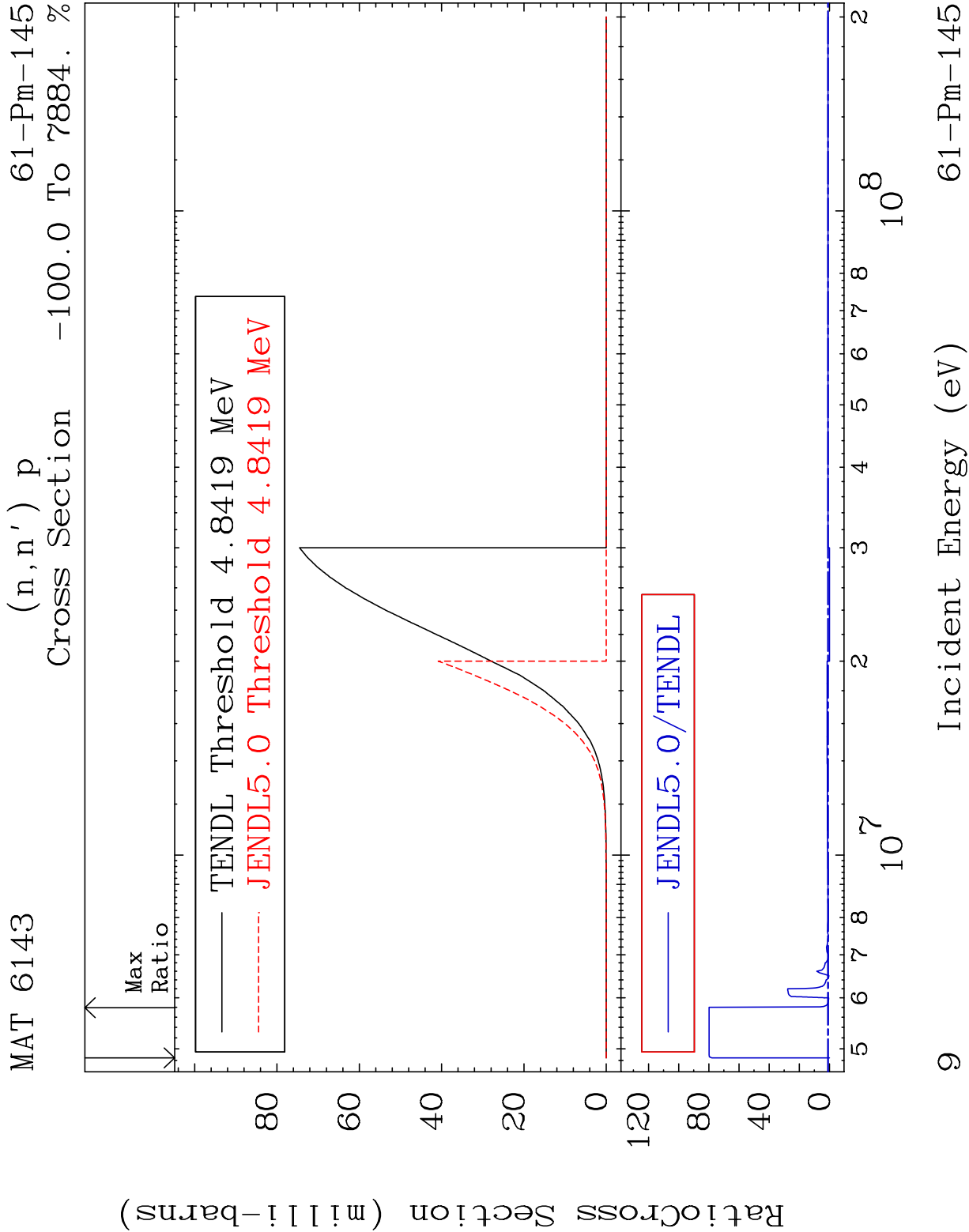


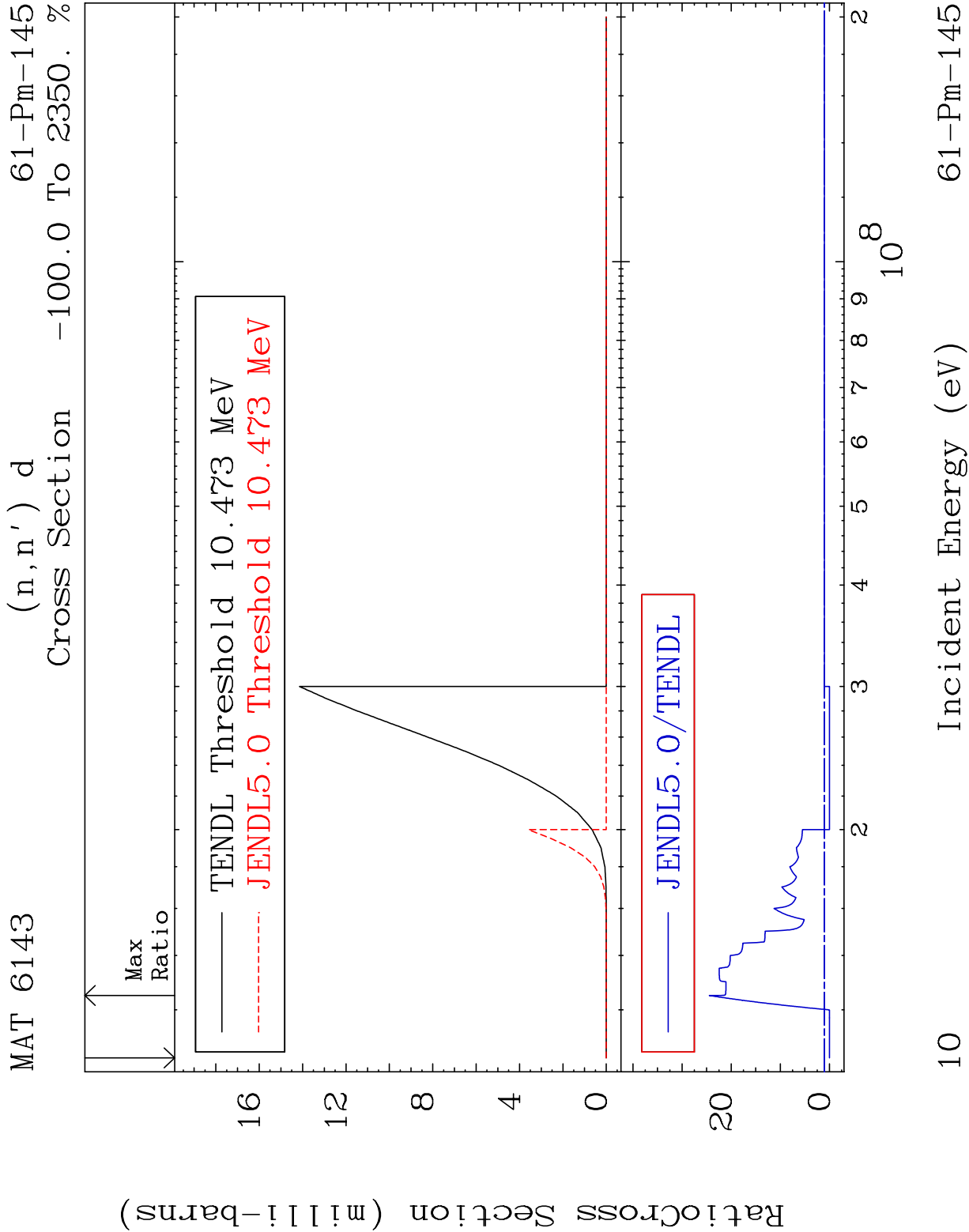


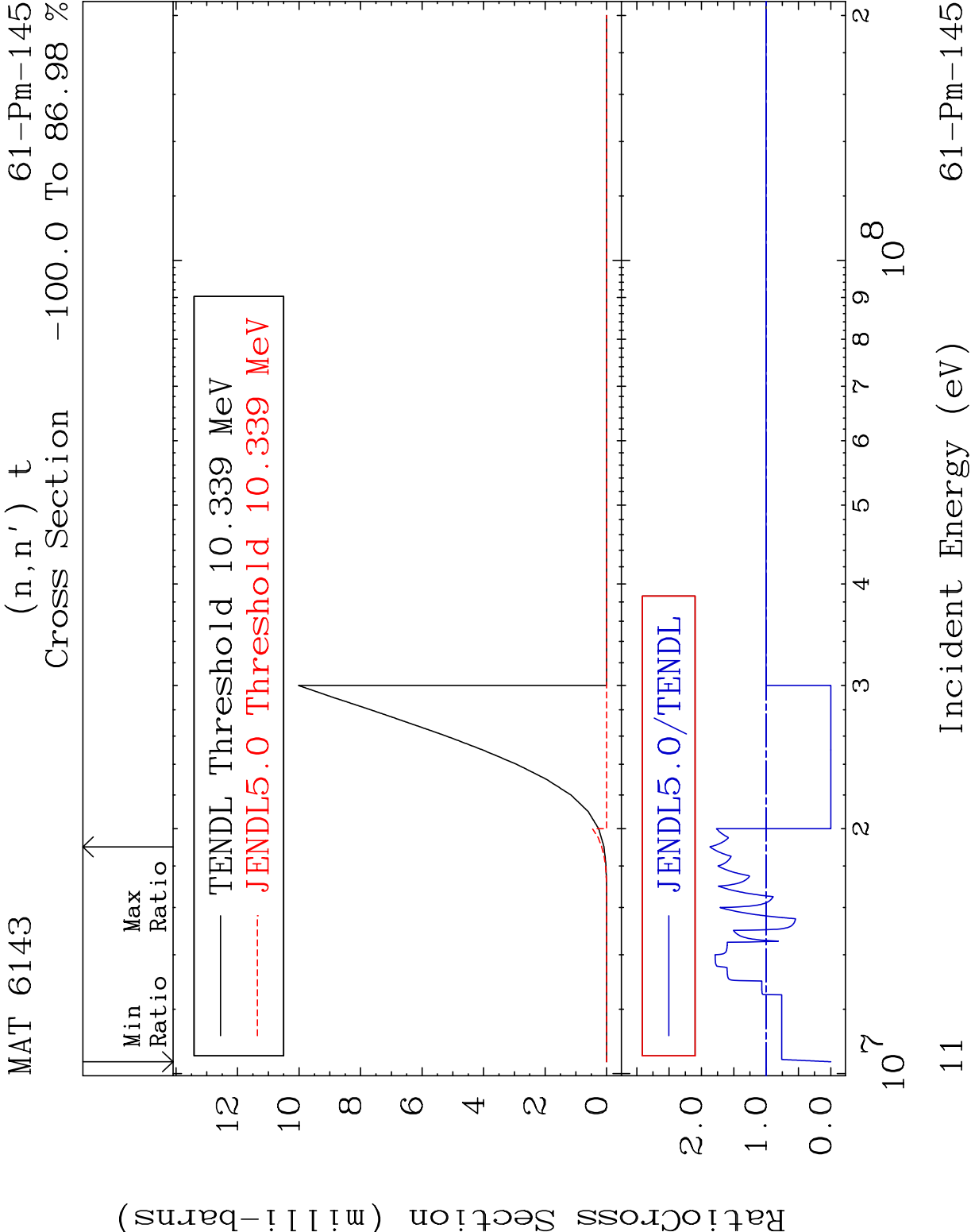


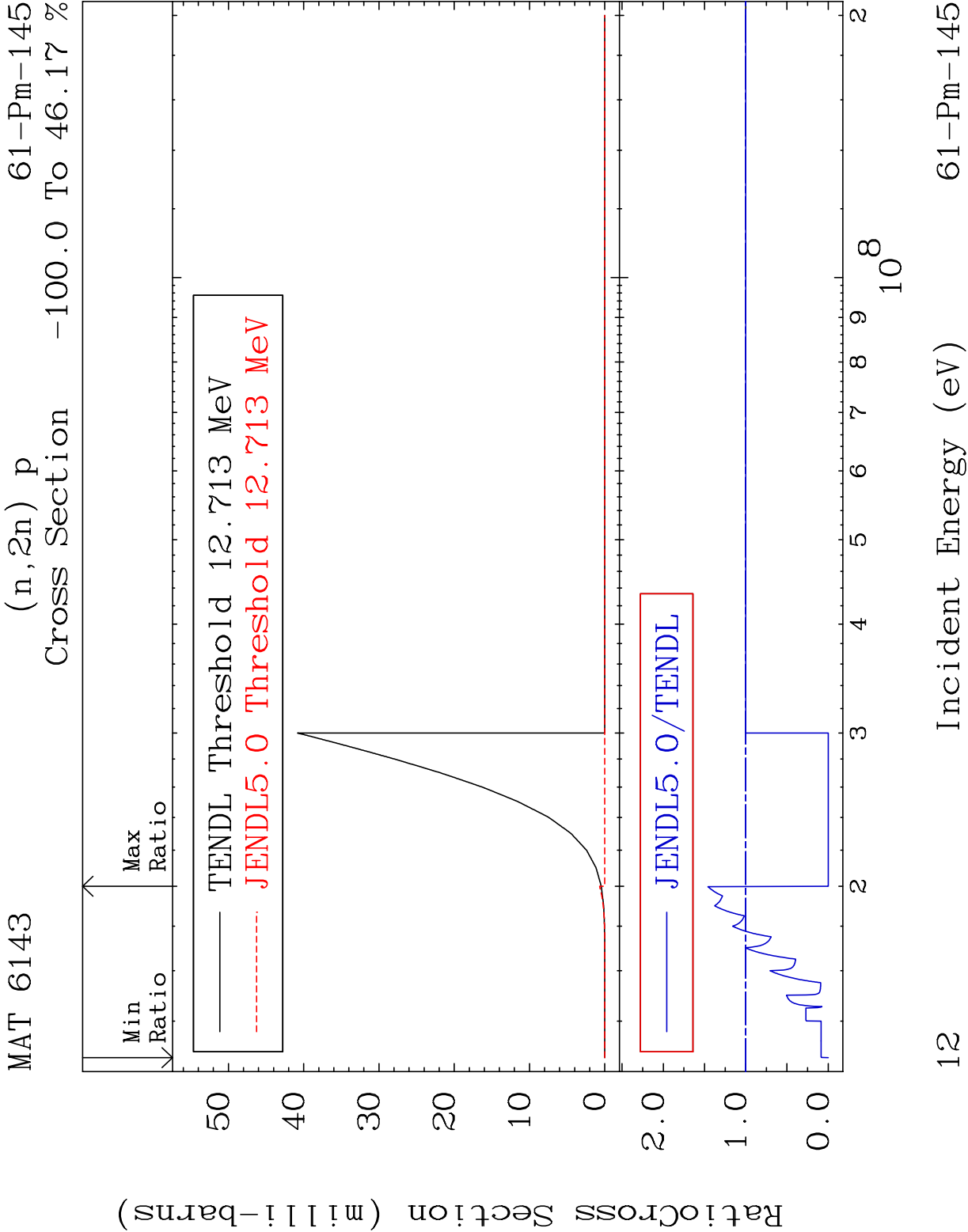












RatioCross Section (milli-barns)

50
40
30
20
10
0
2.0
1.0
0.0

Min Ratio
Max Ratio

TENDL Threshold 12.713 MeV
JENDL5.0 Threshold 12.713 MeV

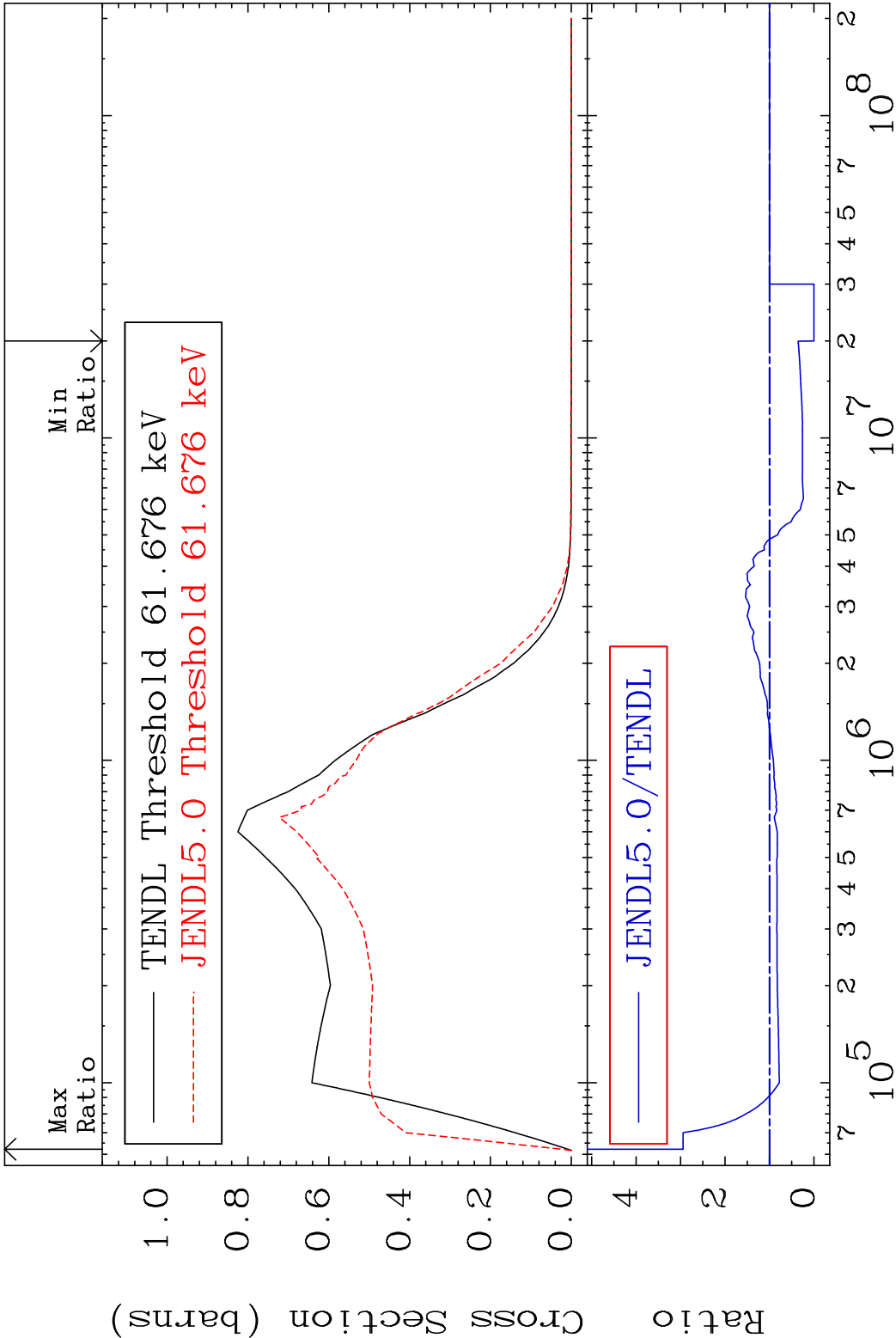
JENDL5.0/TENDL

12

Incident Energy (eV)

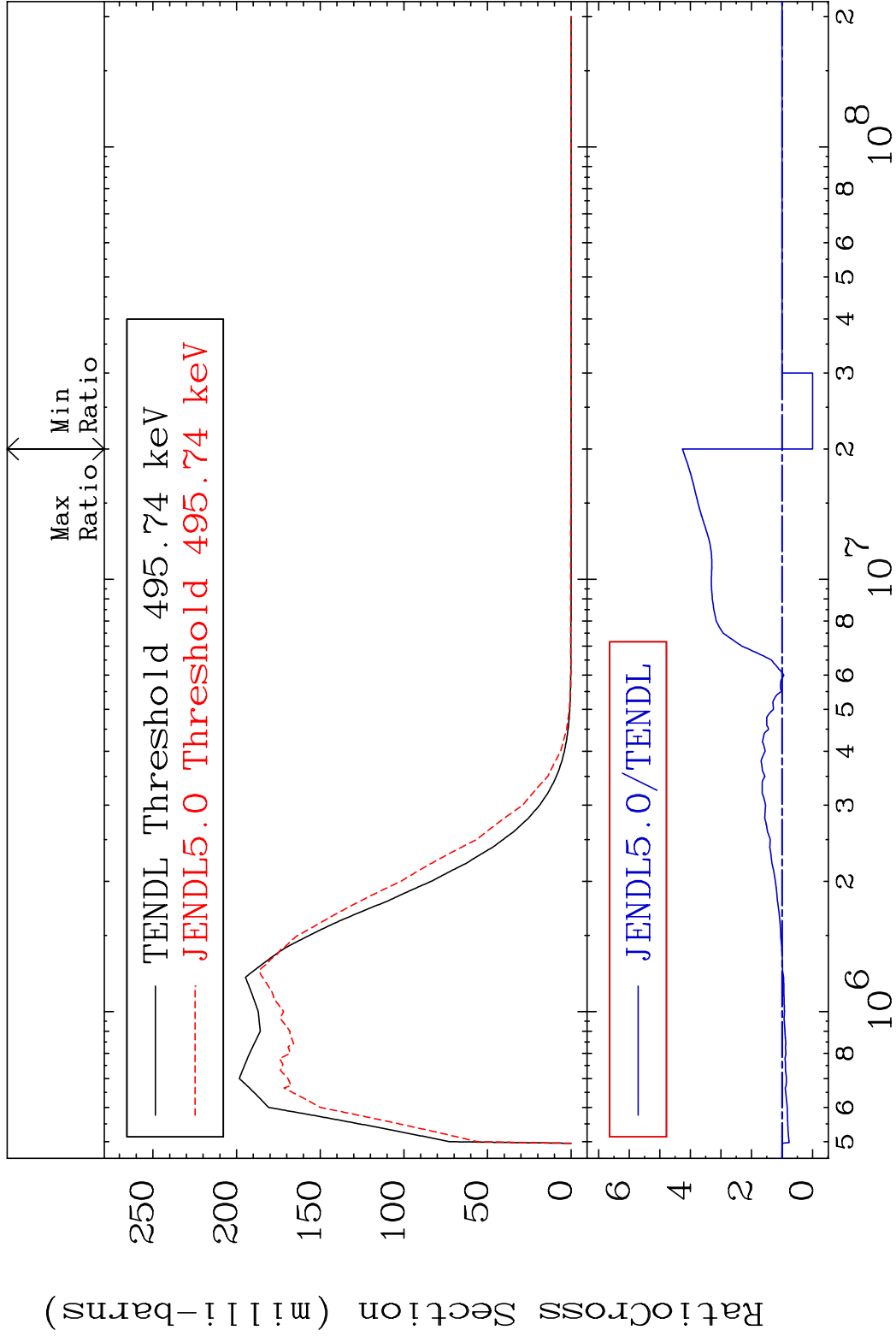
61-Pm-145

MAT 6143 MT= 51 (n,n') Level 61-Pm-145
 Cross Section -100.0 To 194.3 %



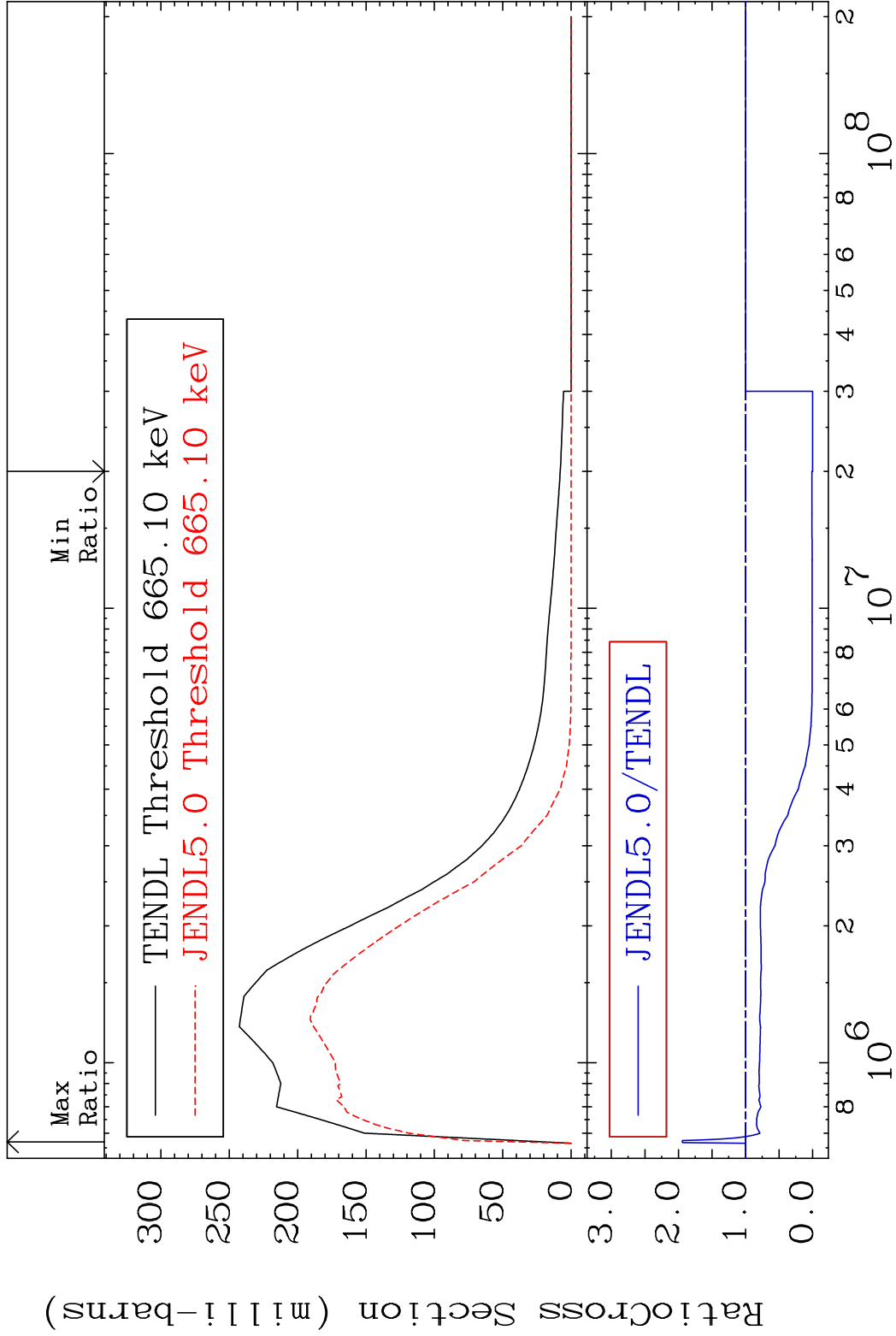
13 Incident Energy (eV) 61-Pm-145

MAT 6143 MT= 52 (n,n') Level 61-Pm-145
 Cross Section -100.0 To 326.2 %

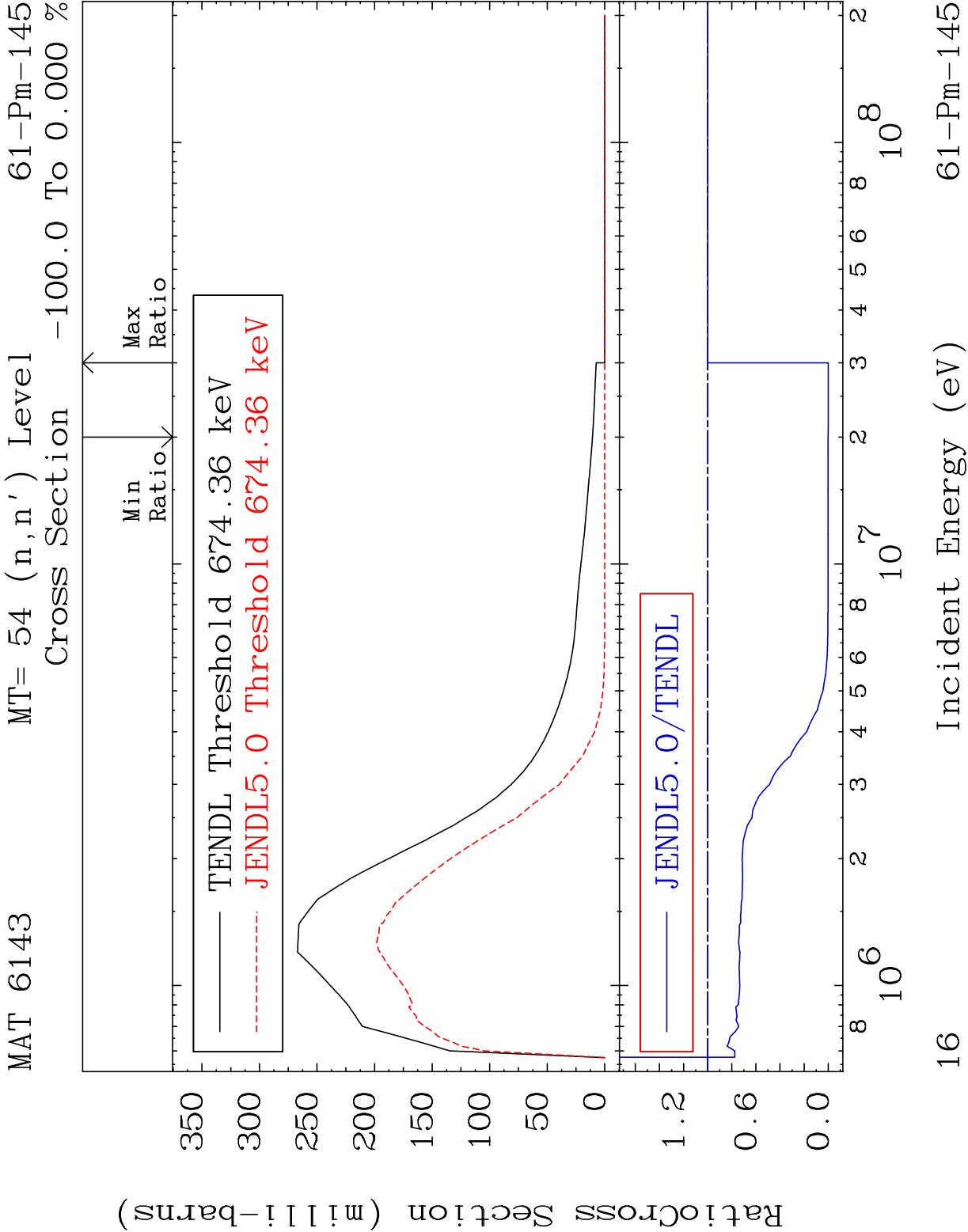


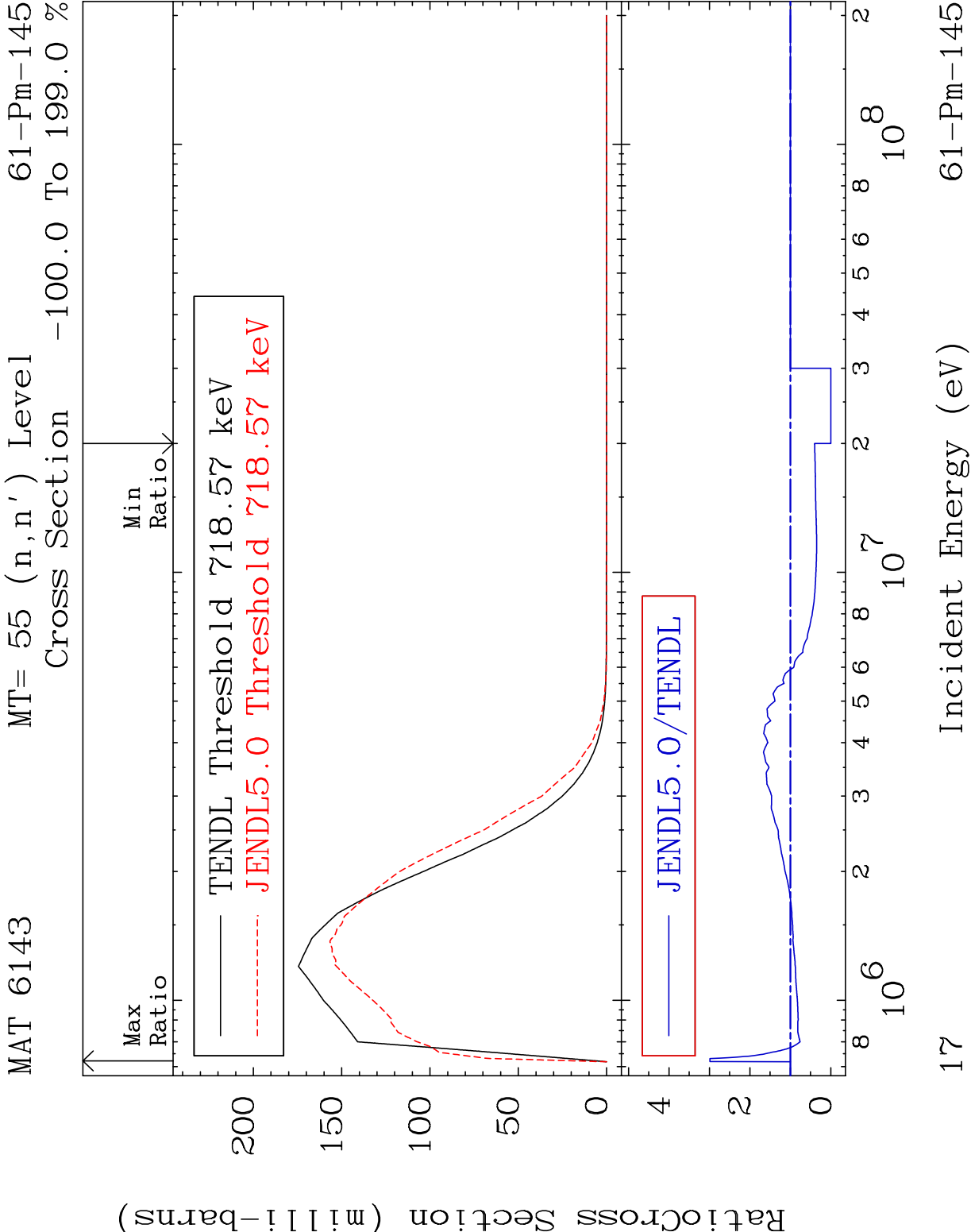
14 Incident Energy (eV) 61-Pm-145

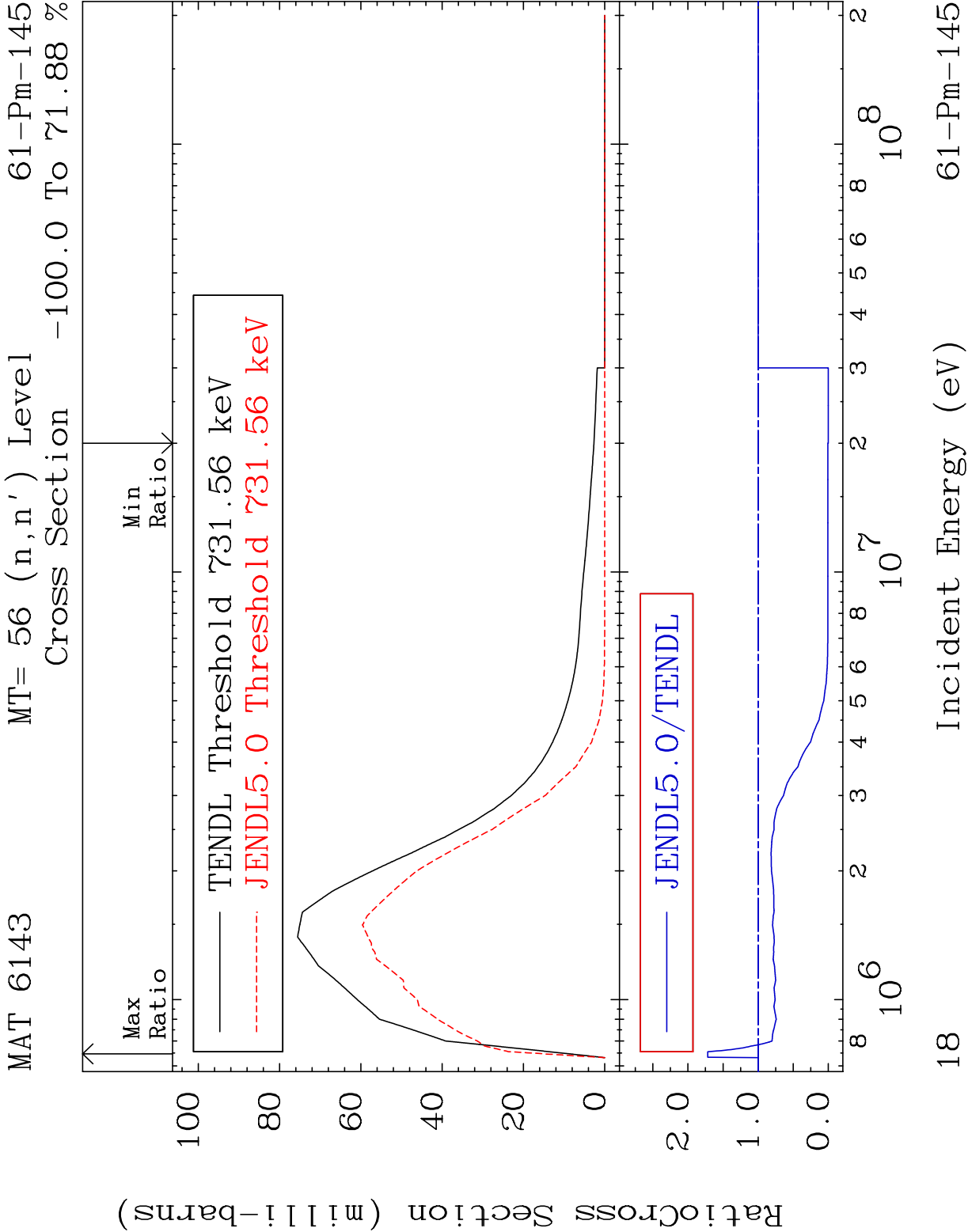
MAT 6143 MT= 53 (n,n') Level 61-Pm-145
Cross Section -100.0 To 94.13 %

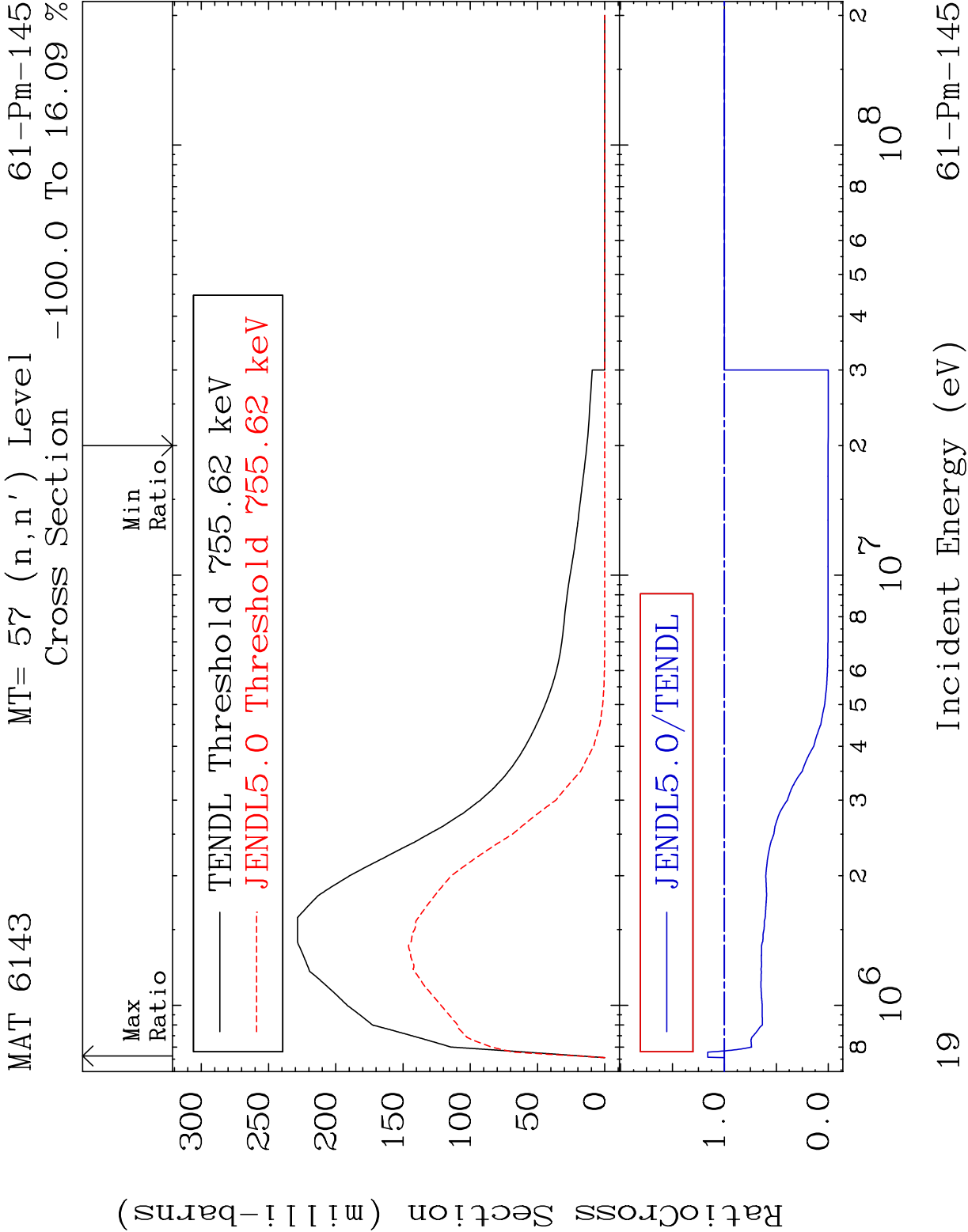


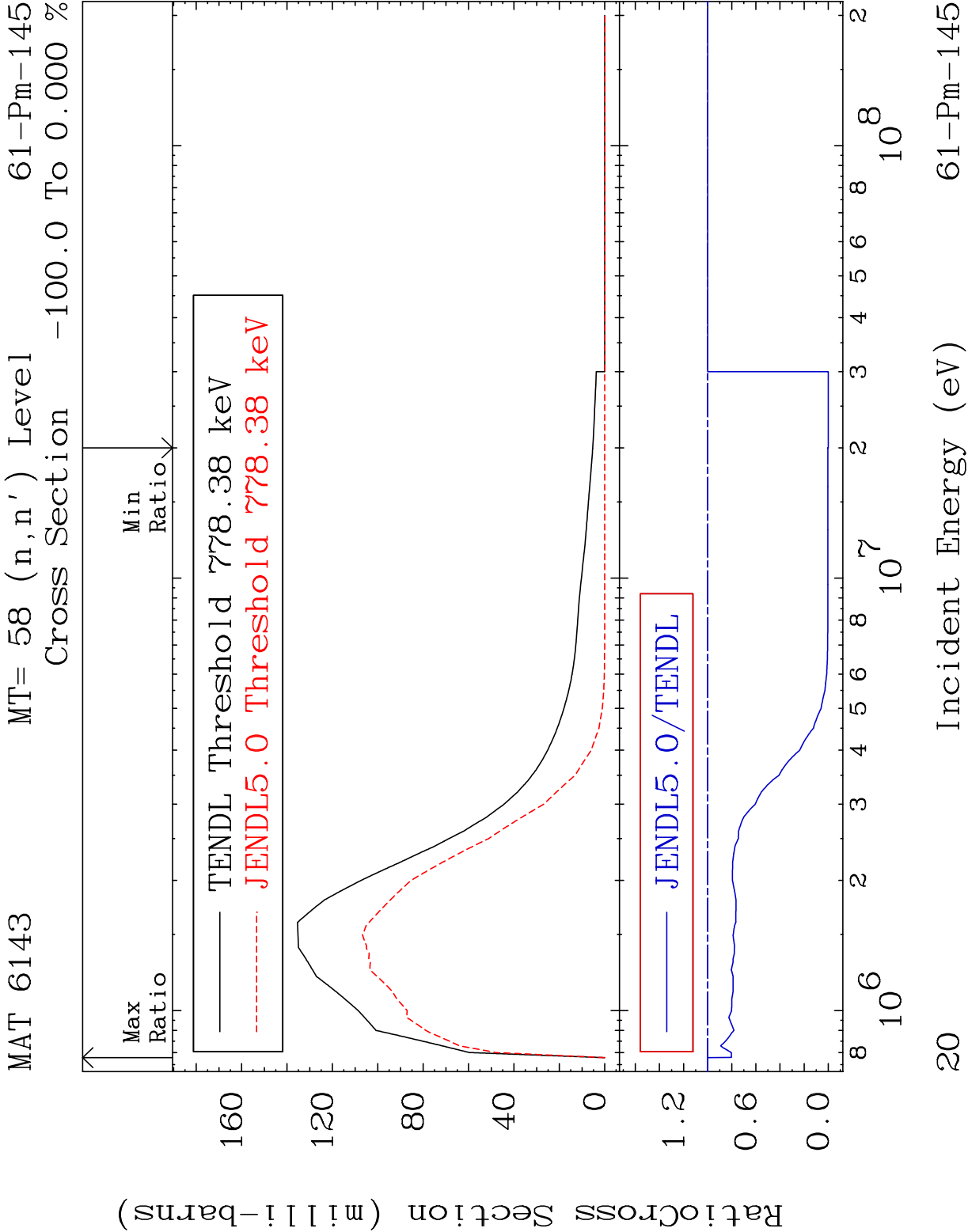
15 Incident Energy (eV) 61-Pm-145



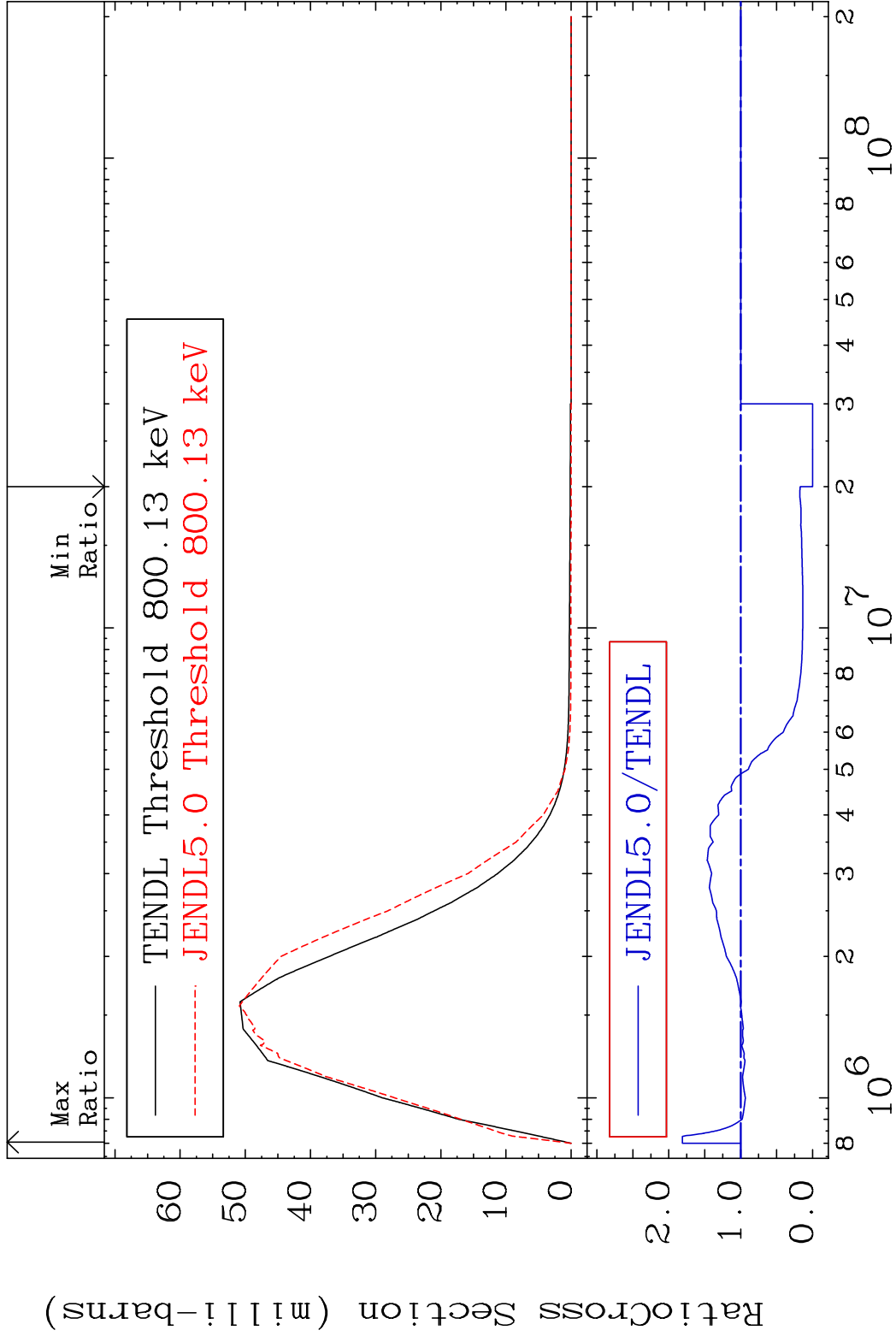








MAT 6143 MT= 59 (n,n') Level 61-Pm-145
Cross Section -100.0 To 81.14 %



21 Incident Energy (eV) 61-Pm-145

MAT 6143

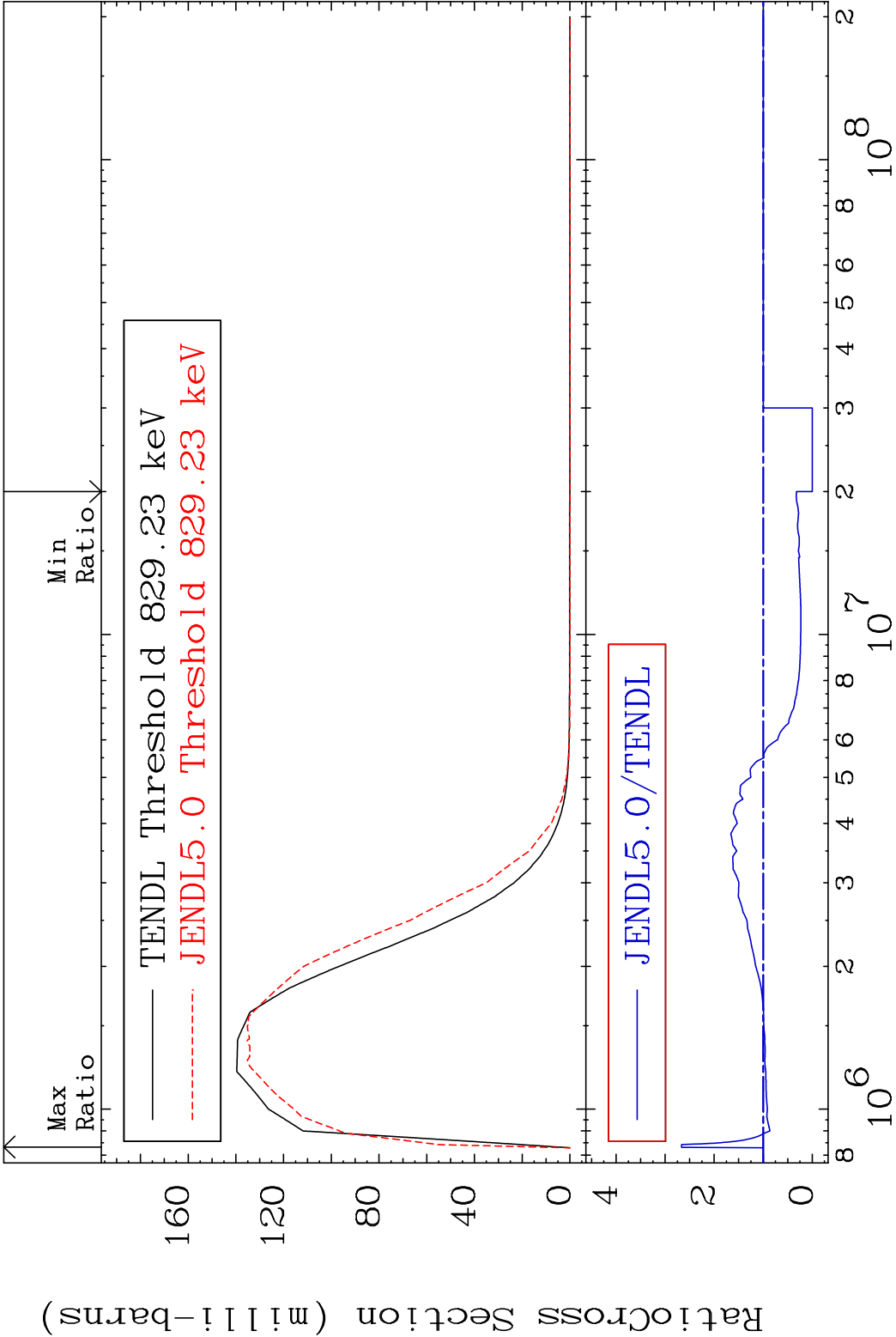
MT= 60 (n,n')

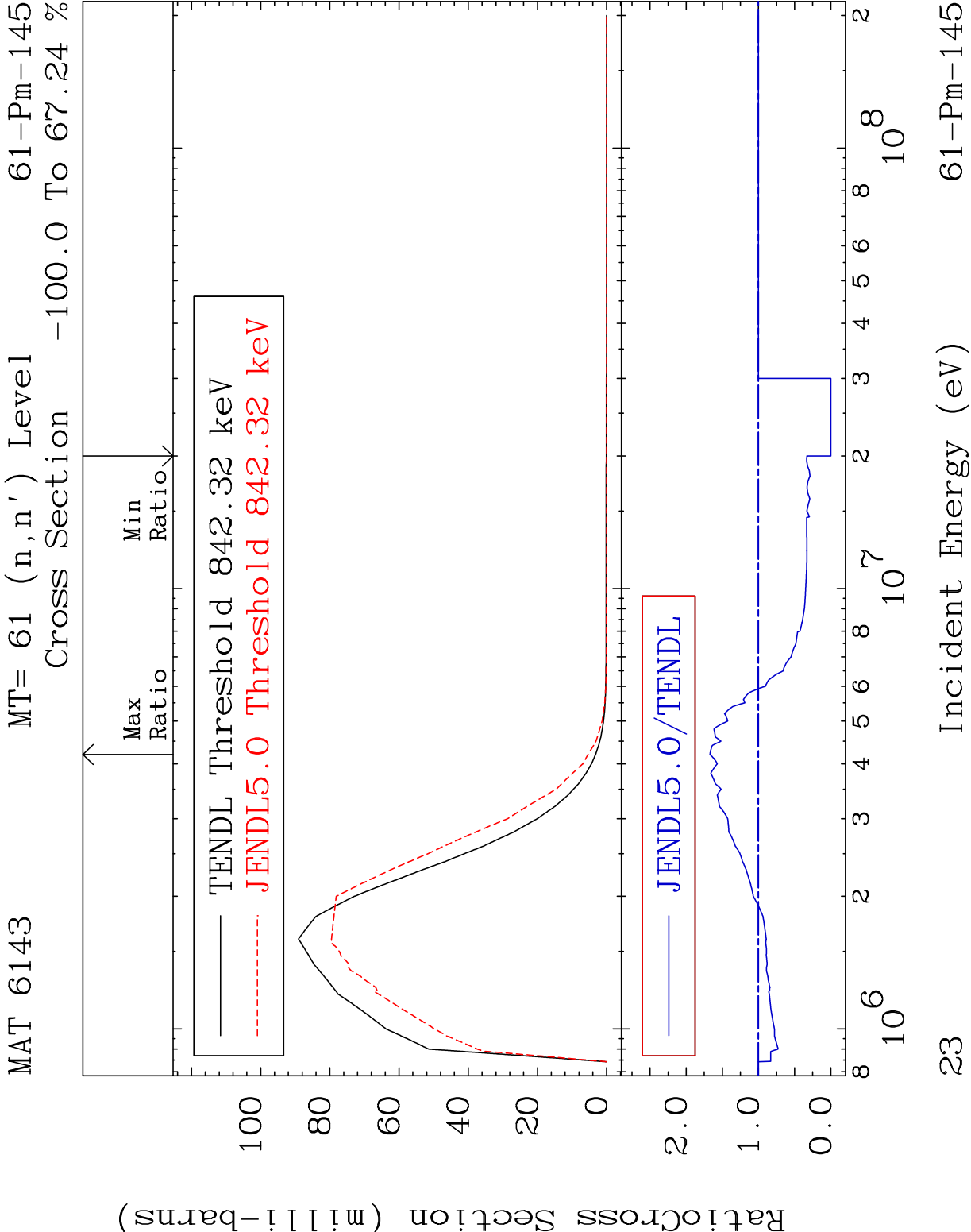
Level

61-Pm-145

Cross Section

-100.0 To 166.5 %





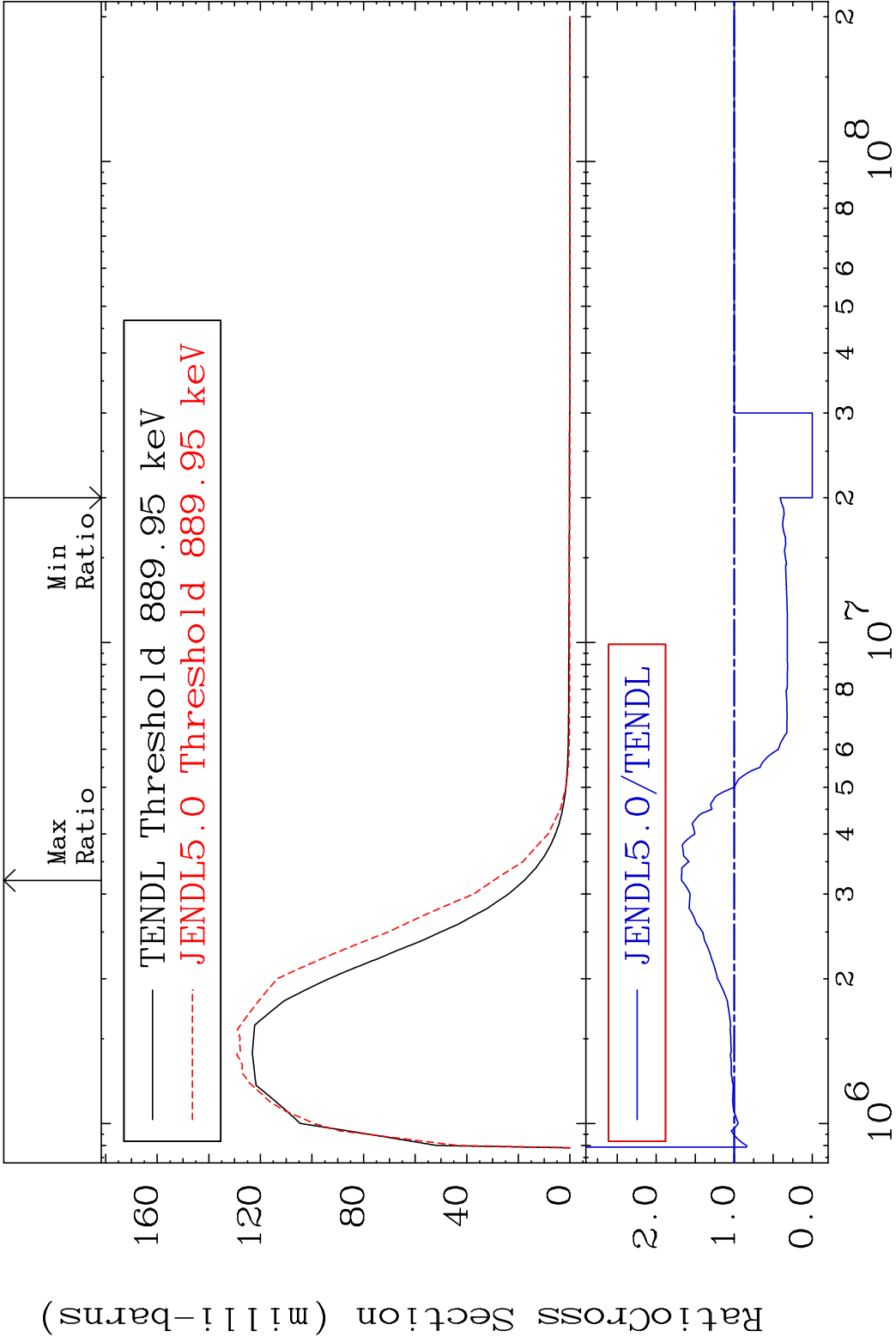
MAT 6143

MT= 62 (n,n') Level

61-Pm-145

Cross Section

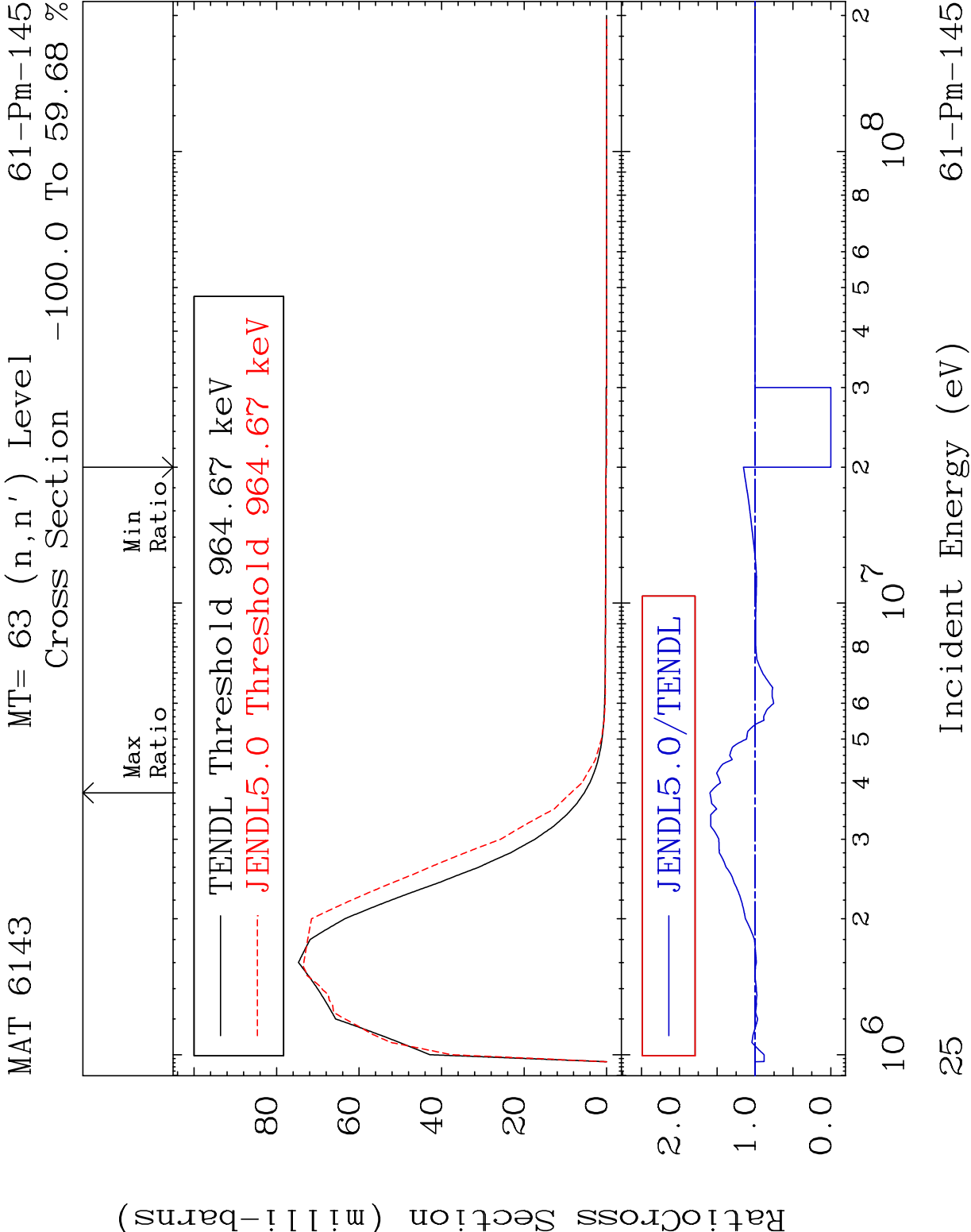
-100.0 To 67.50 %

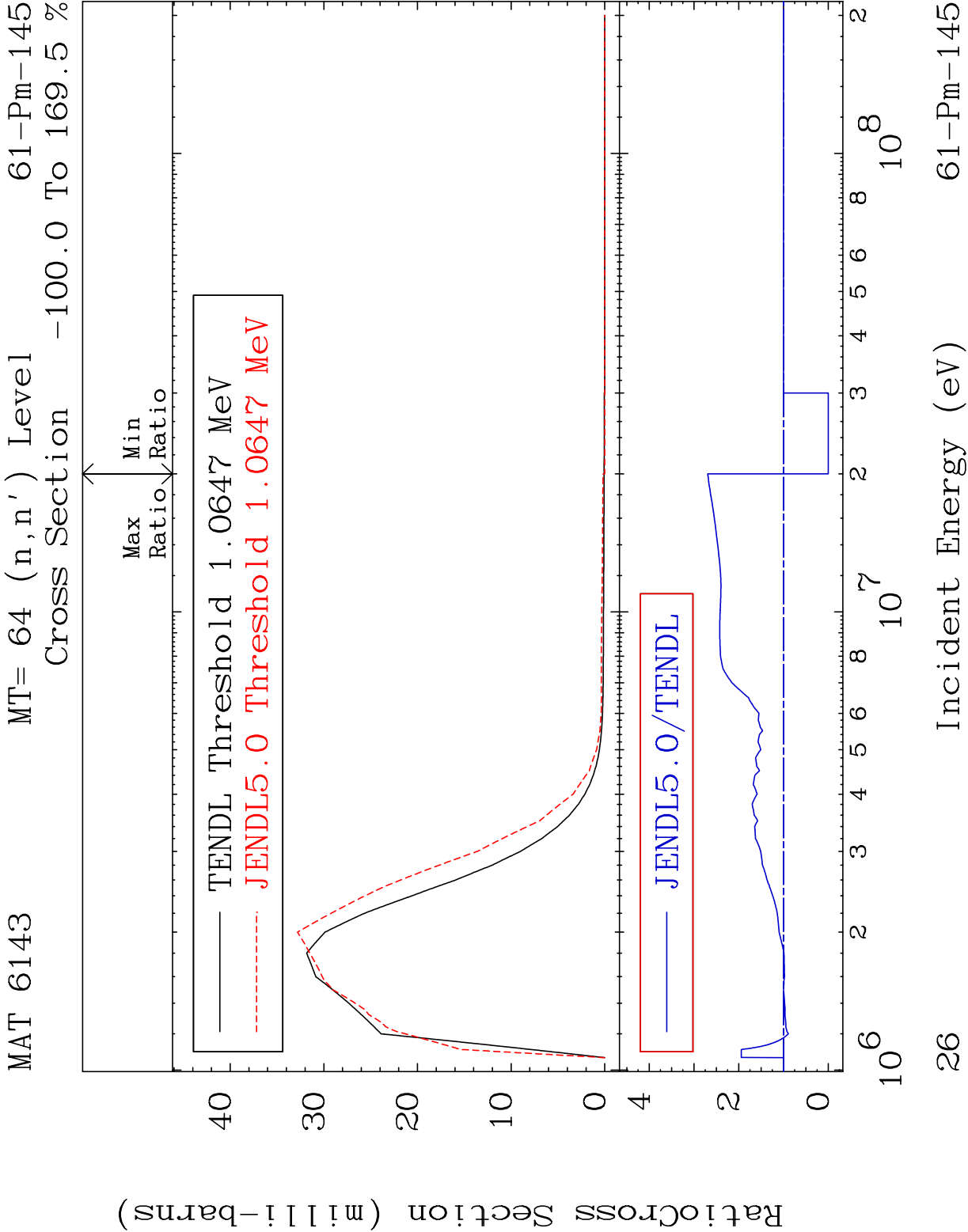


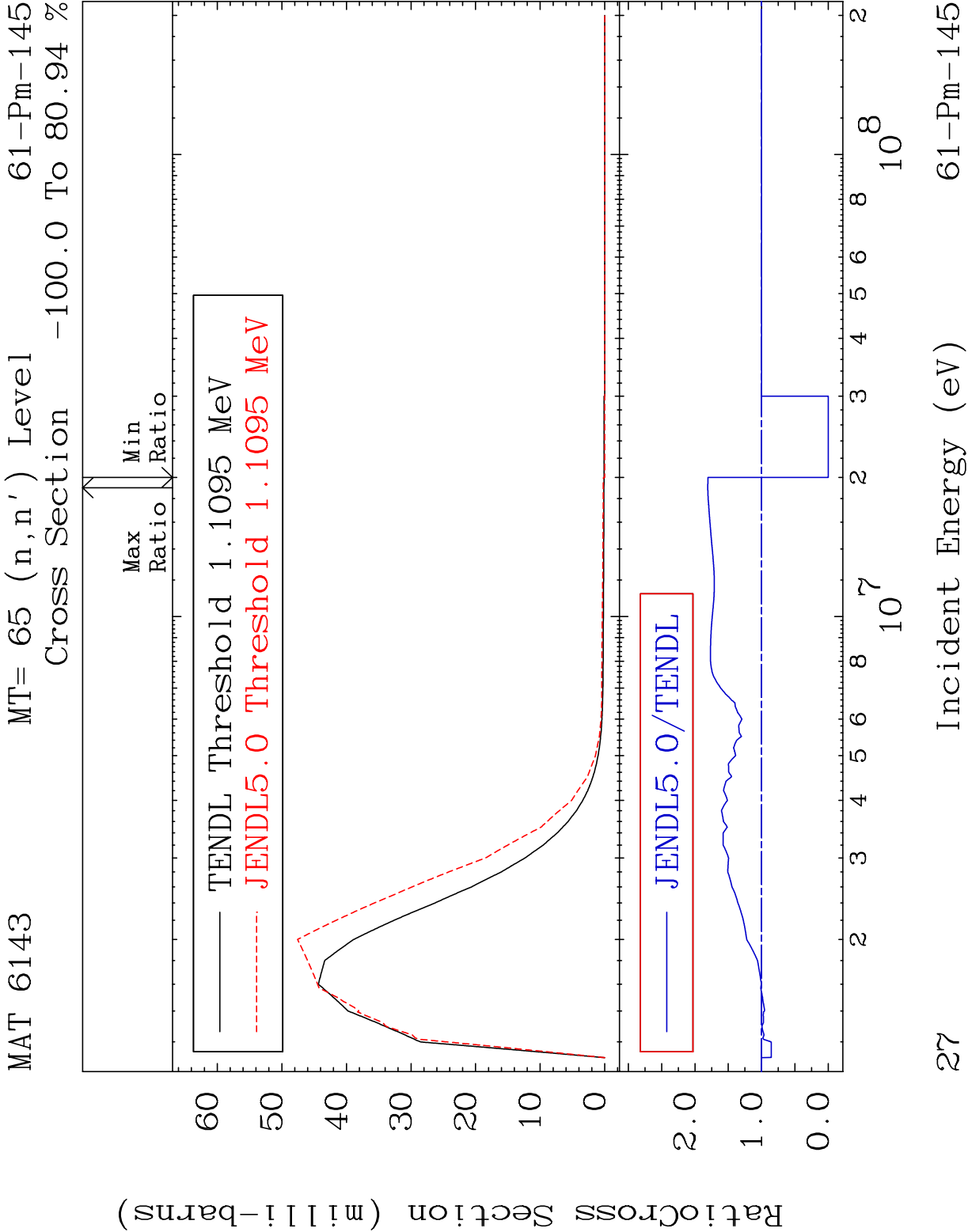
24

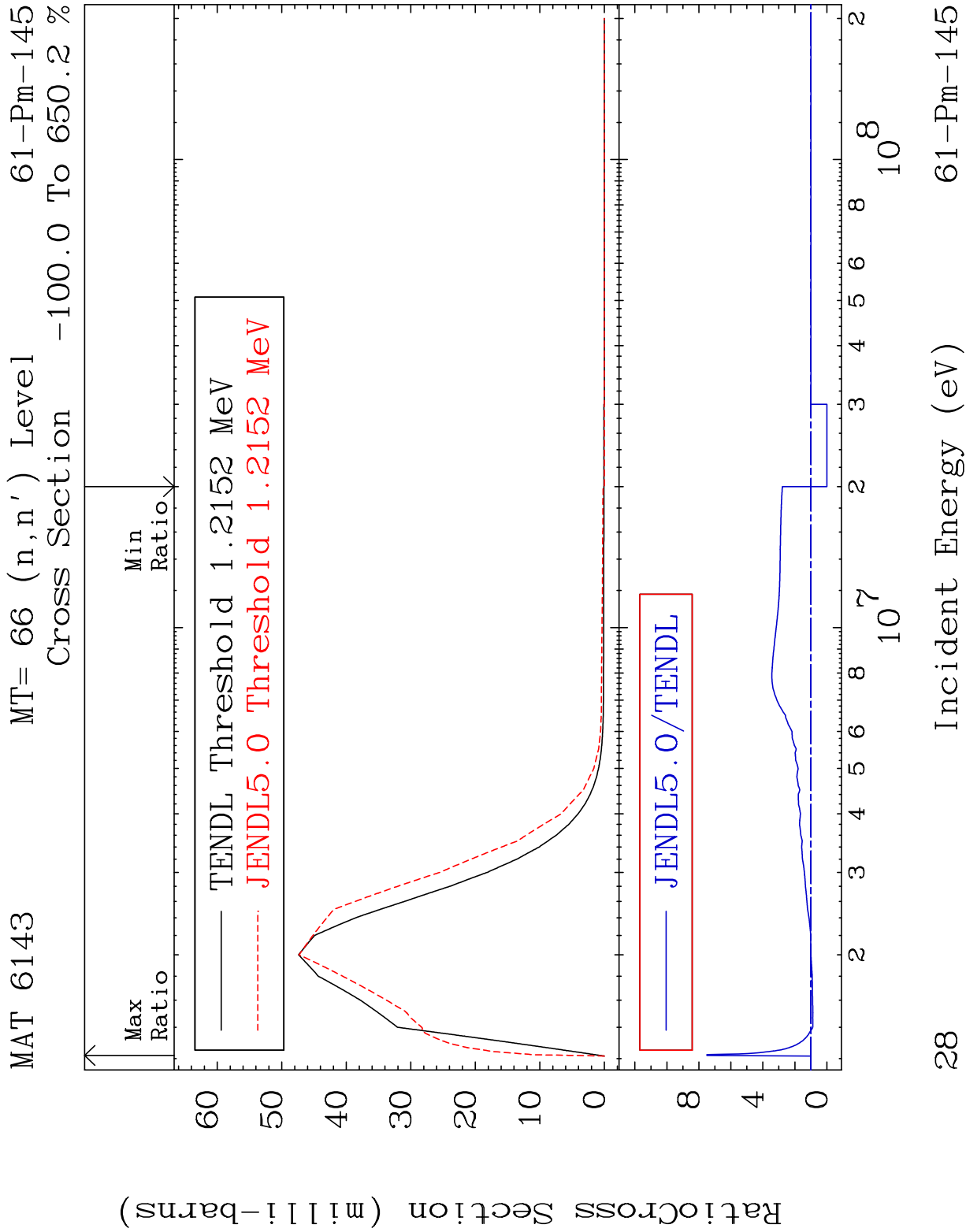
Incident Energy (eV)

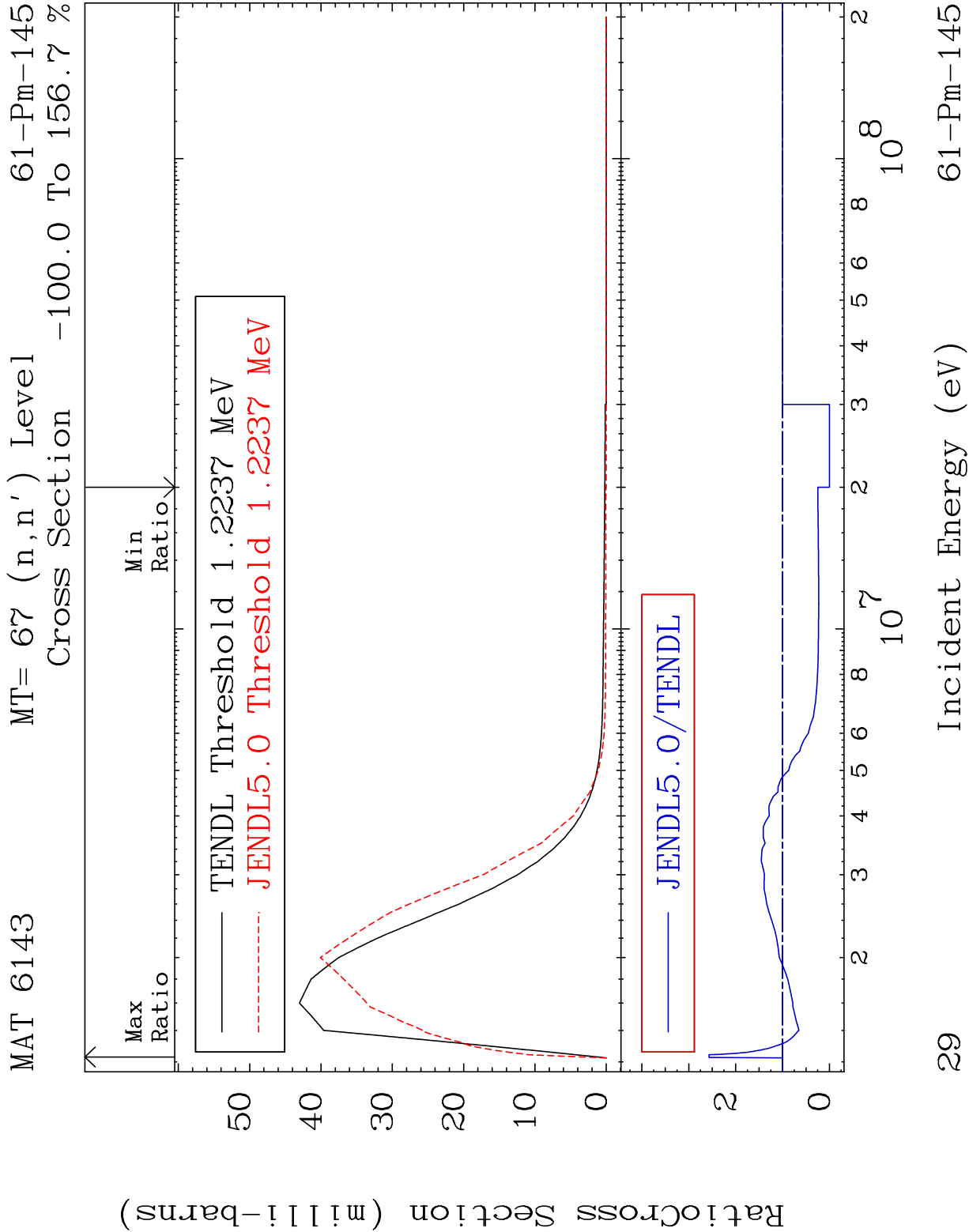
61-Pm-145



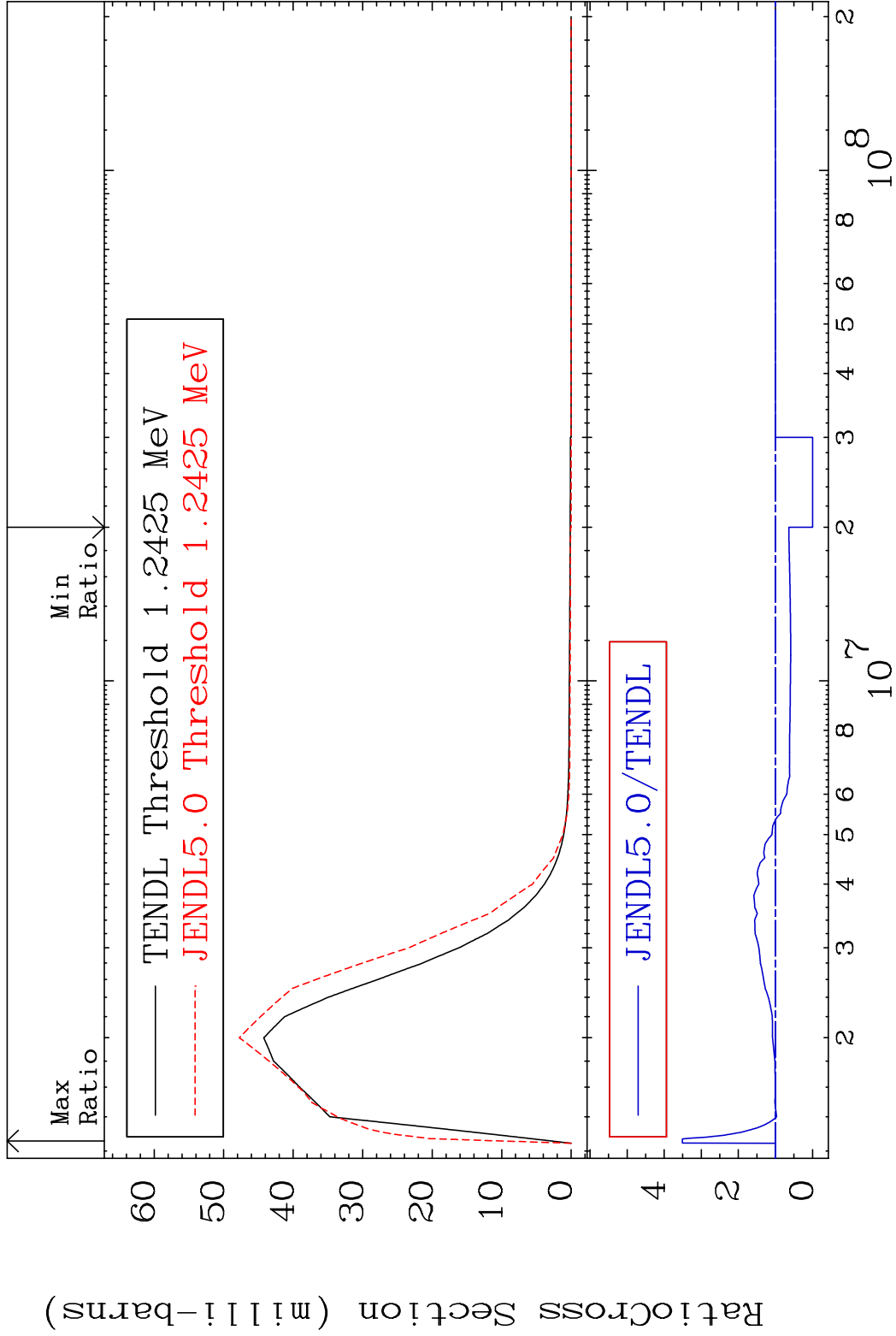


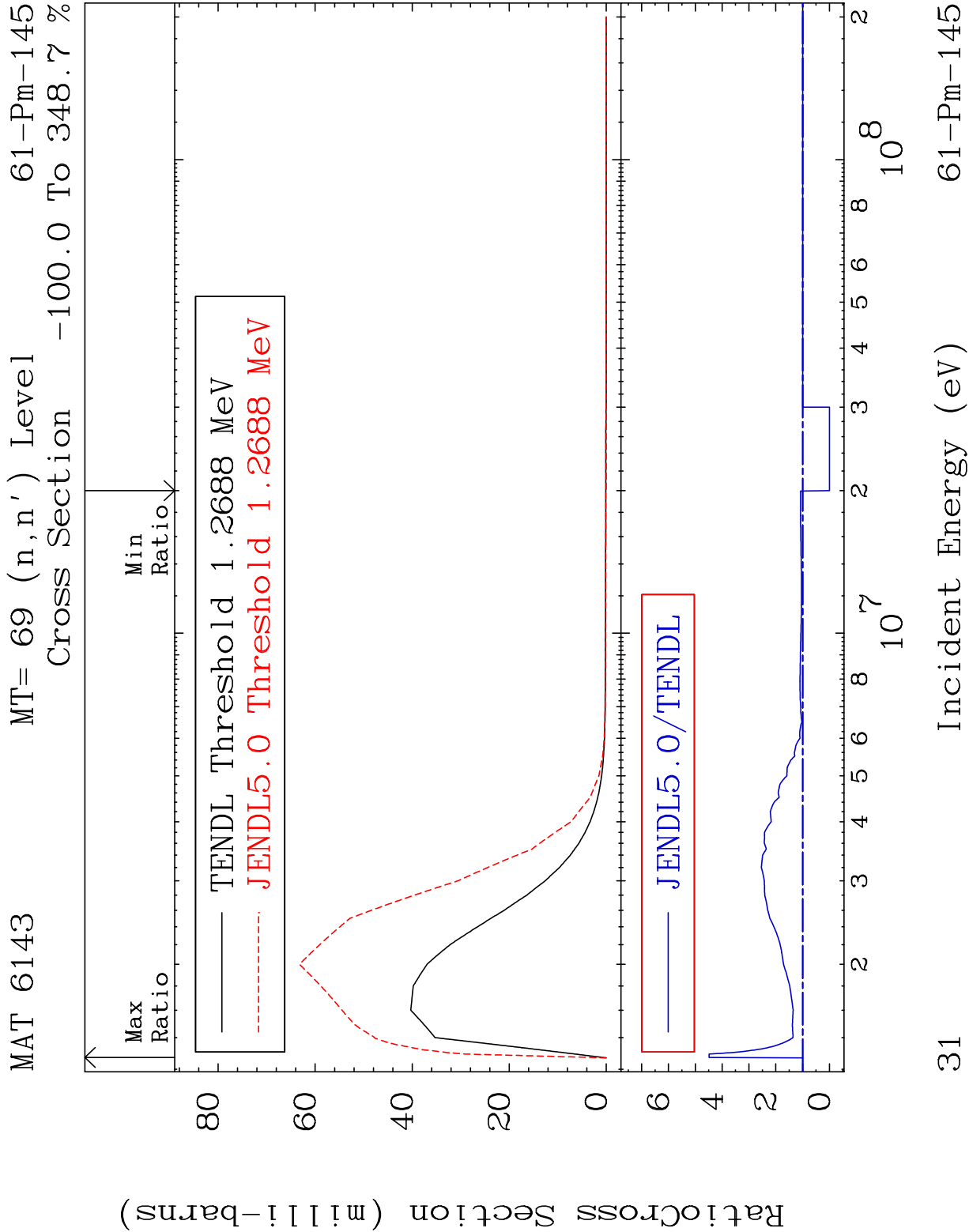


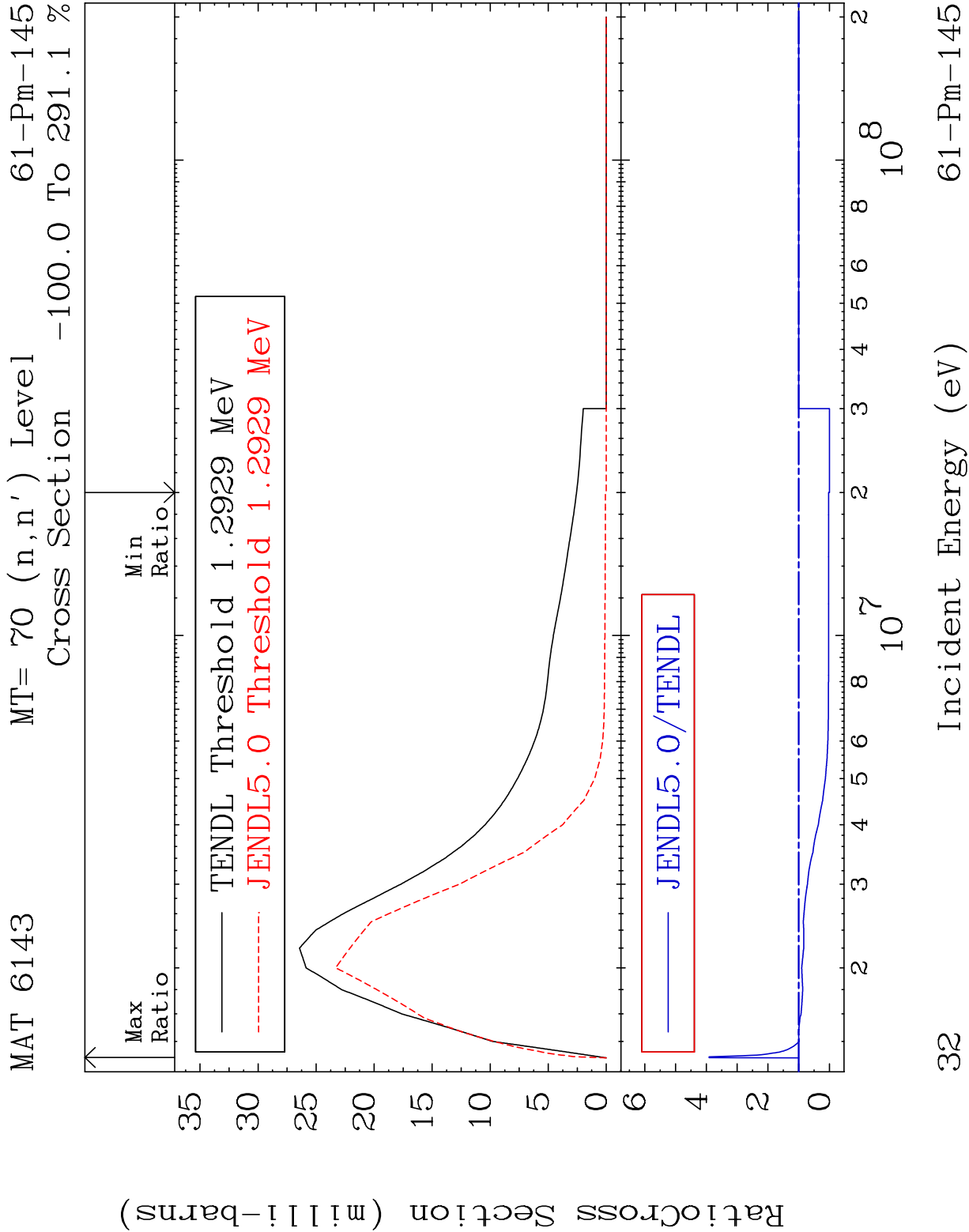


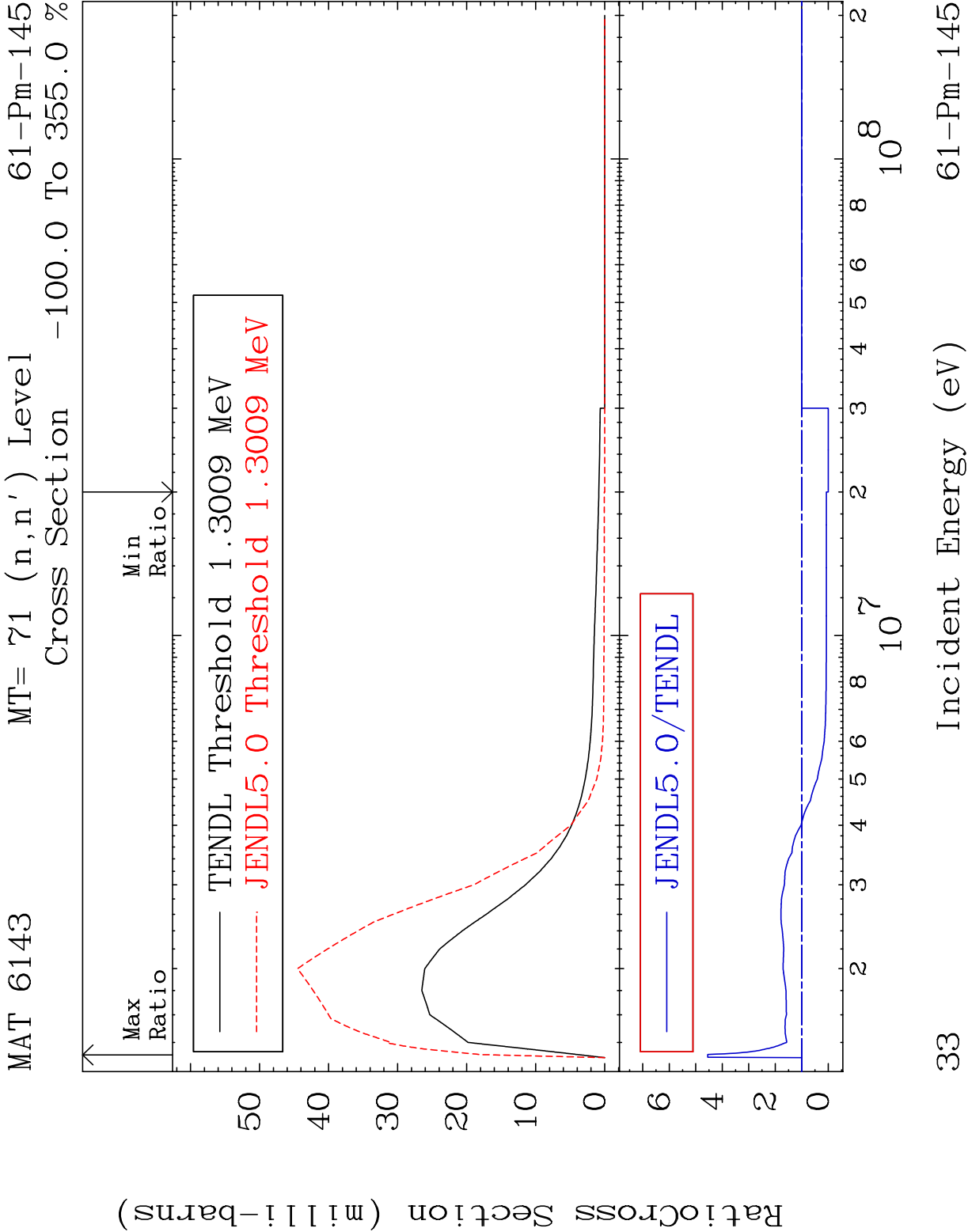


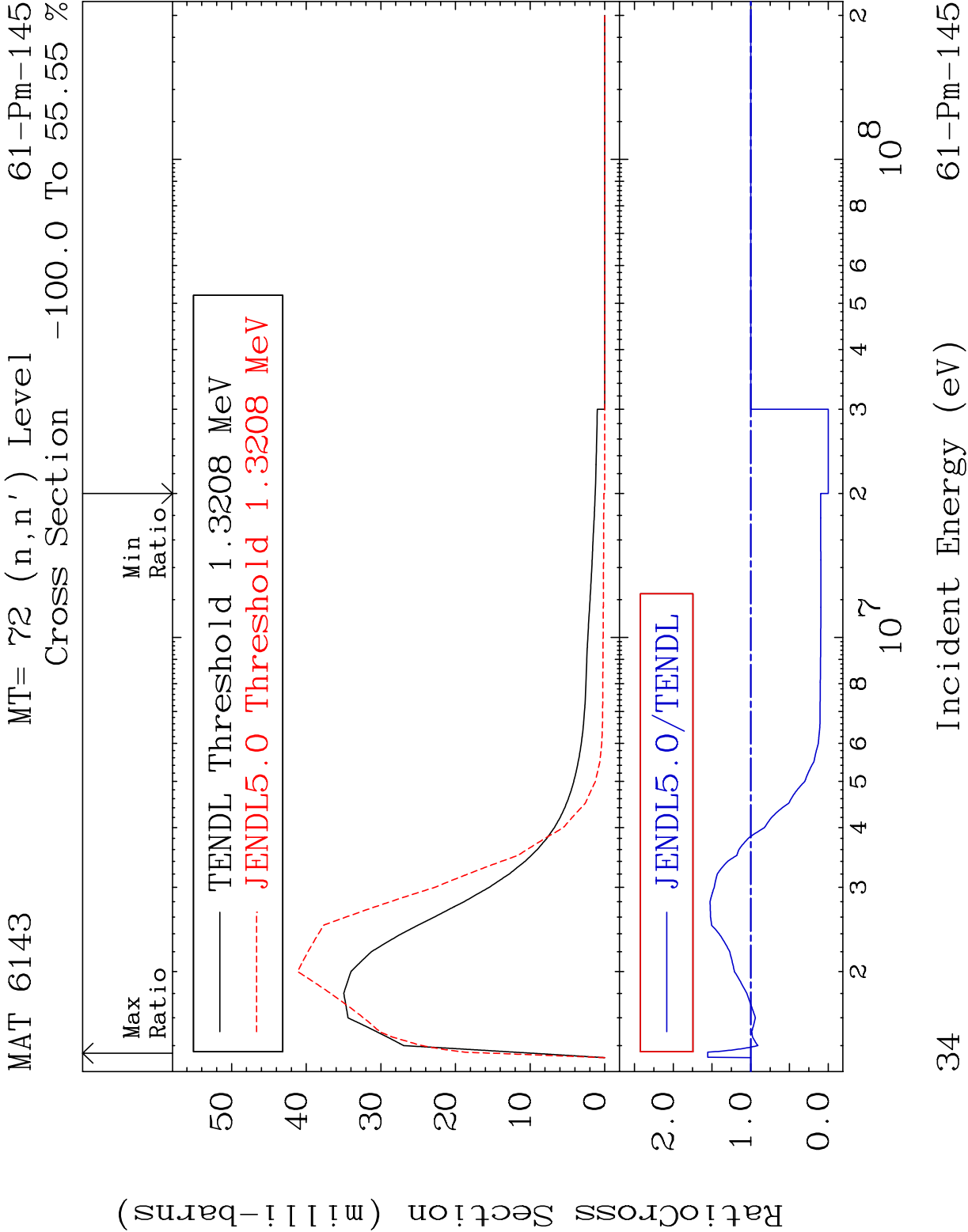
MAT 6143 MT= 68 (n,n') Level 61-Pm-145
Cross Section -100.0 To 251.0 %



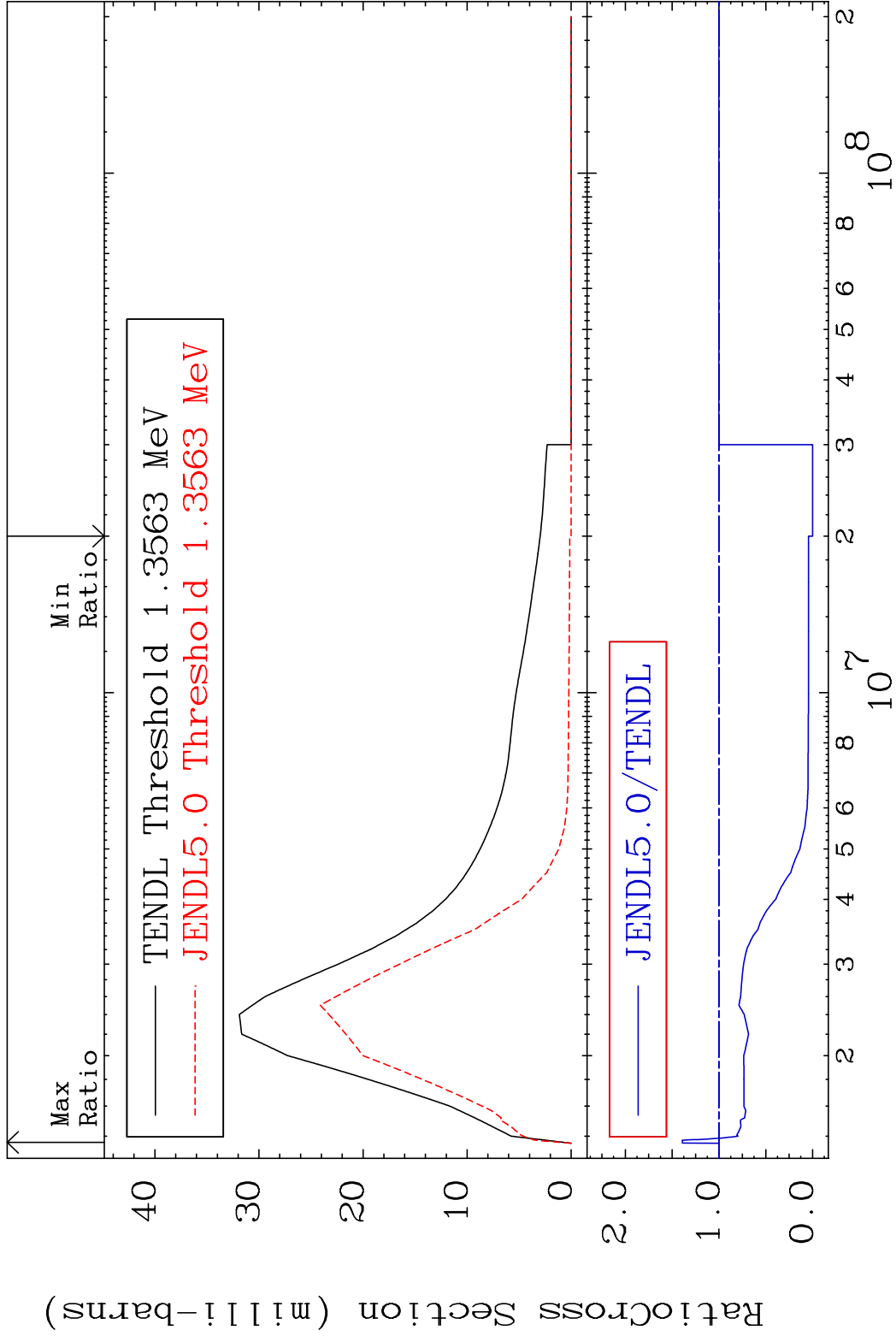


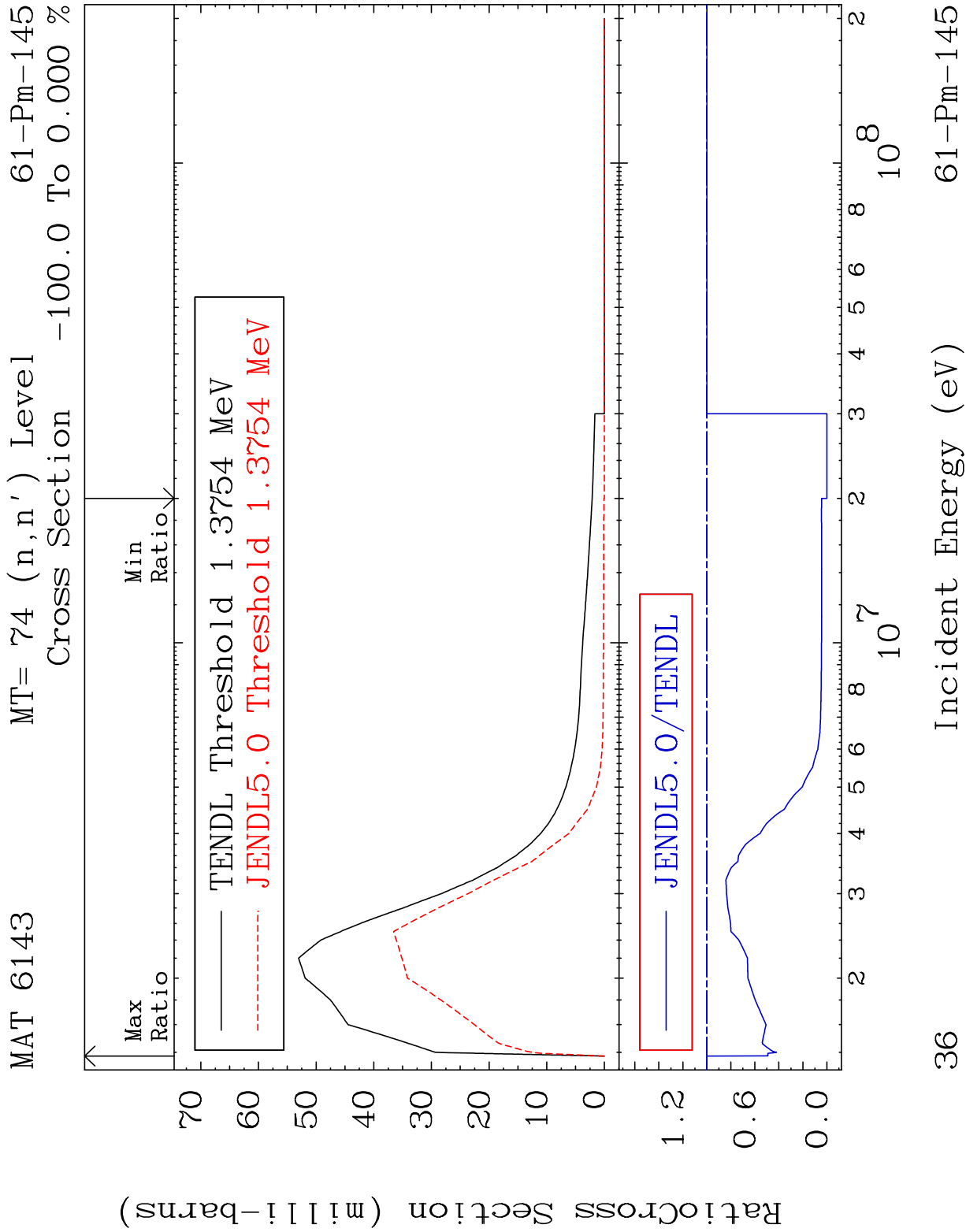


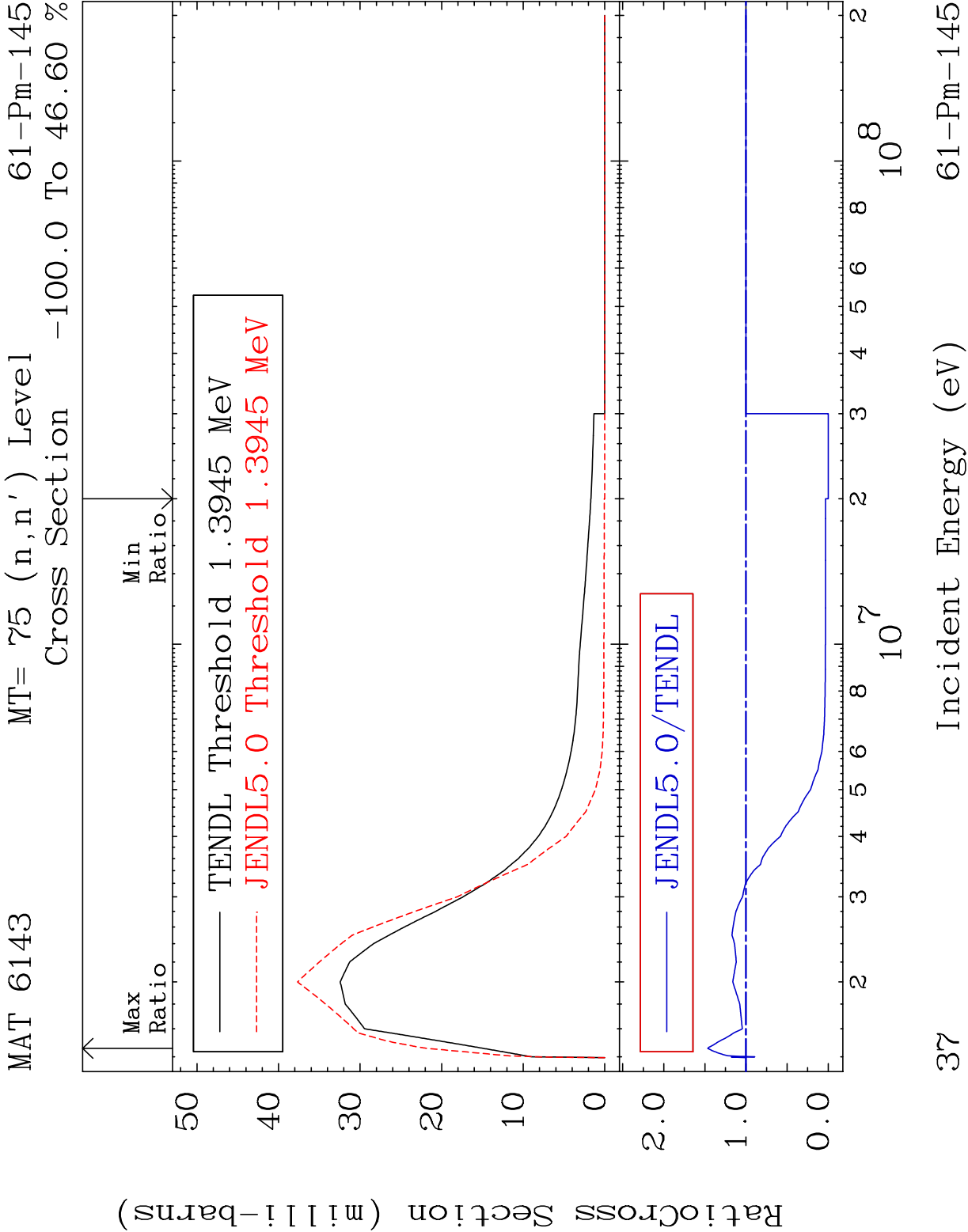




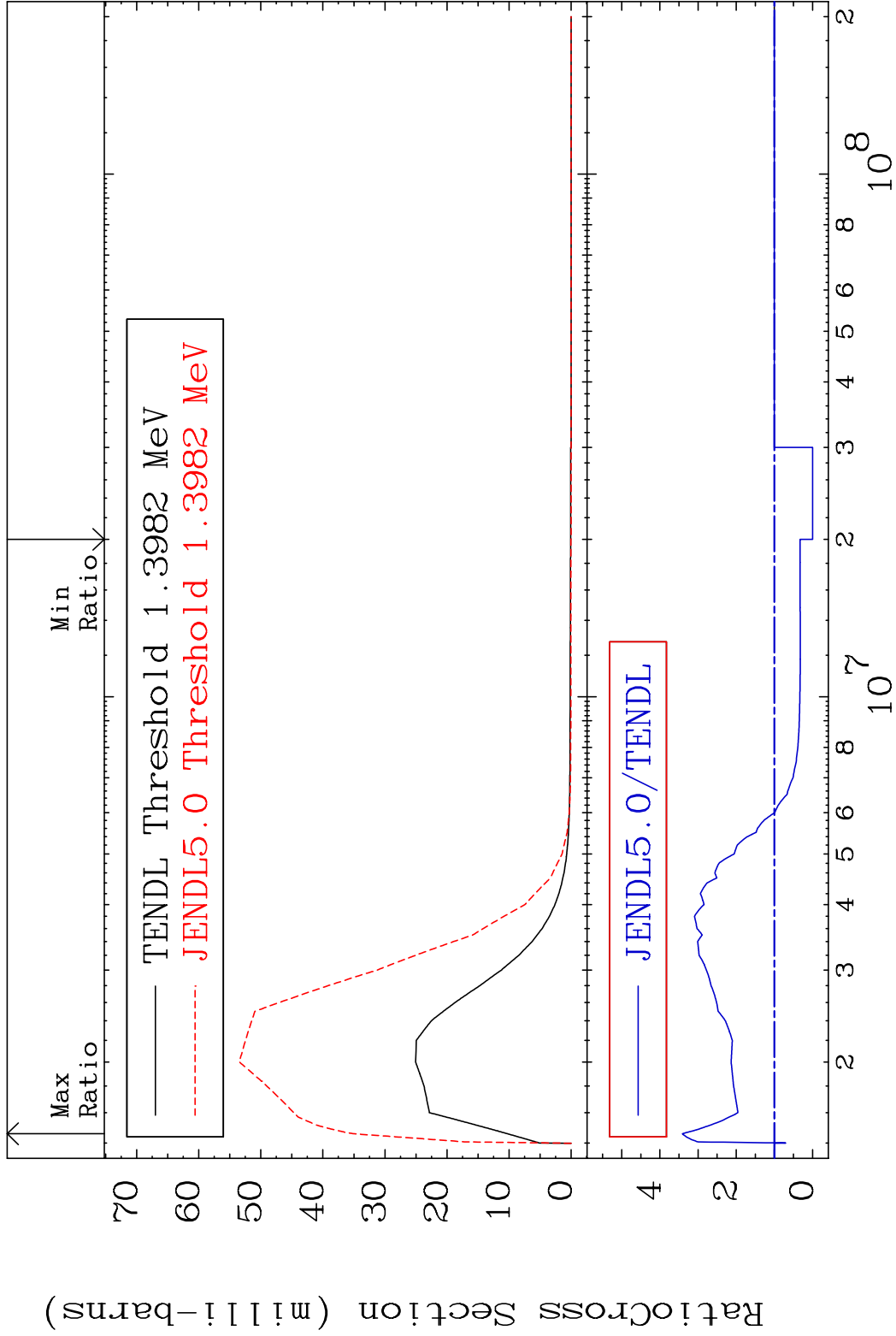
MAT 6143 MT= 73 (n,n') Level 61-Pm-145
Cross Section -100.0 To 39.08 %

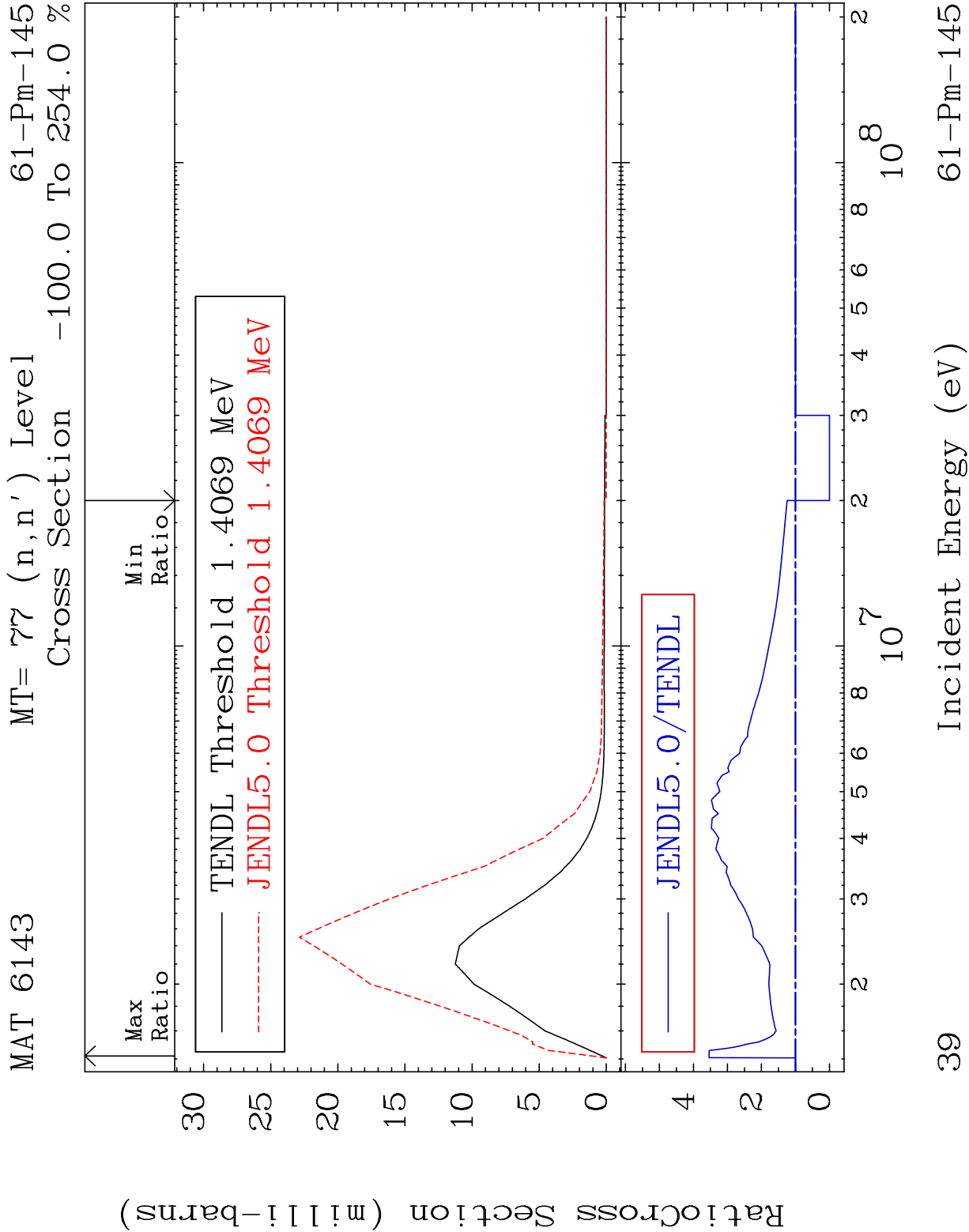


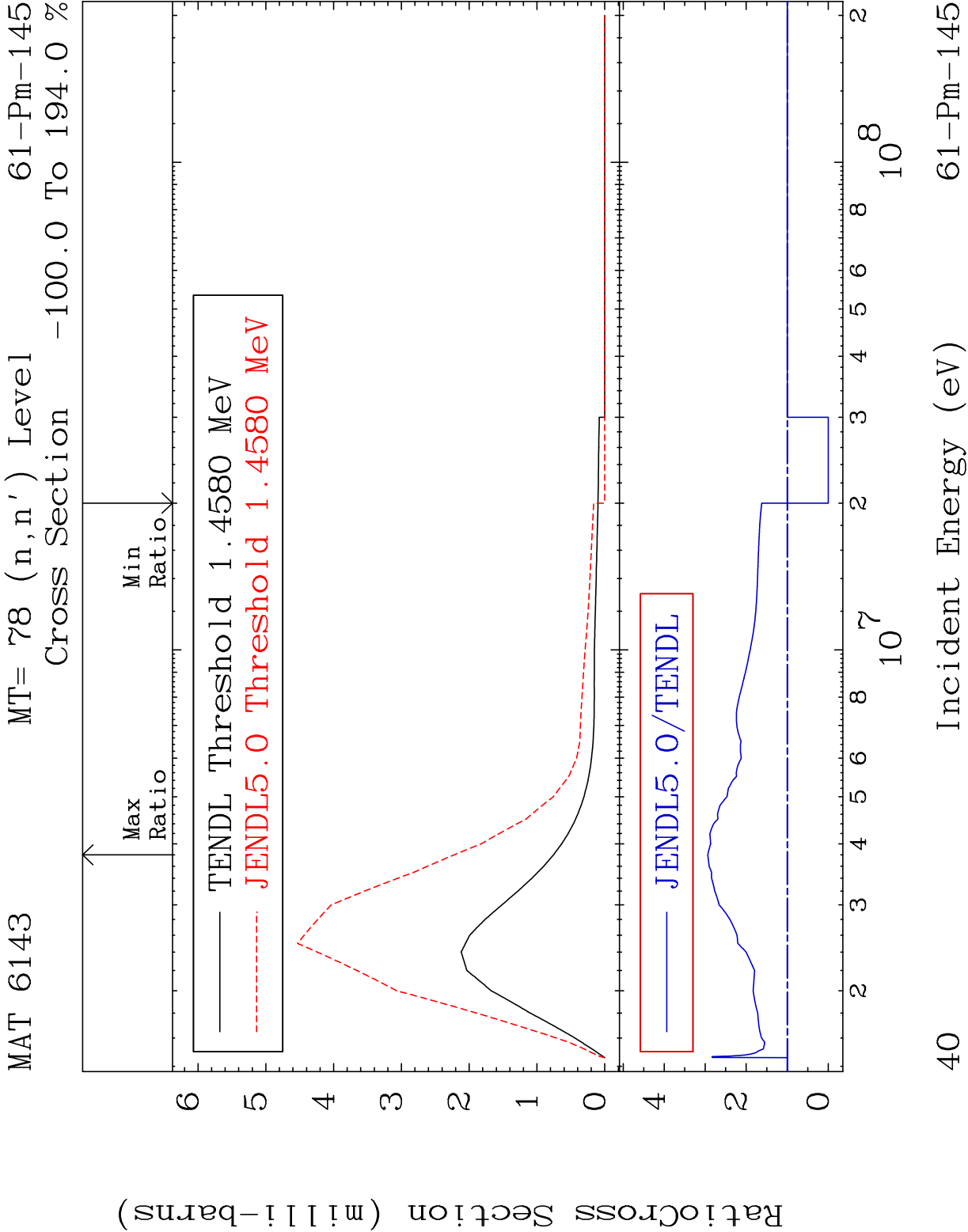




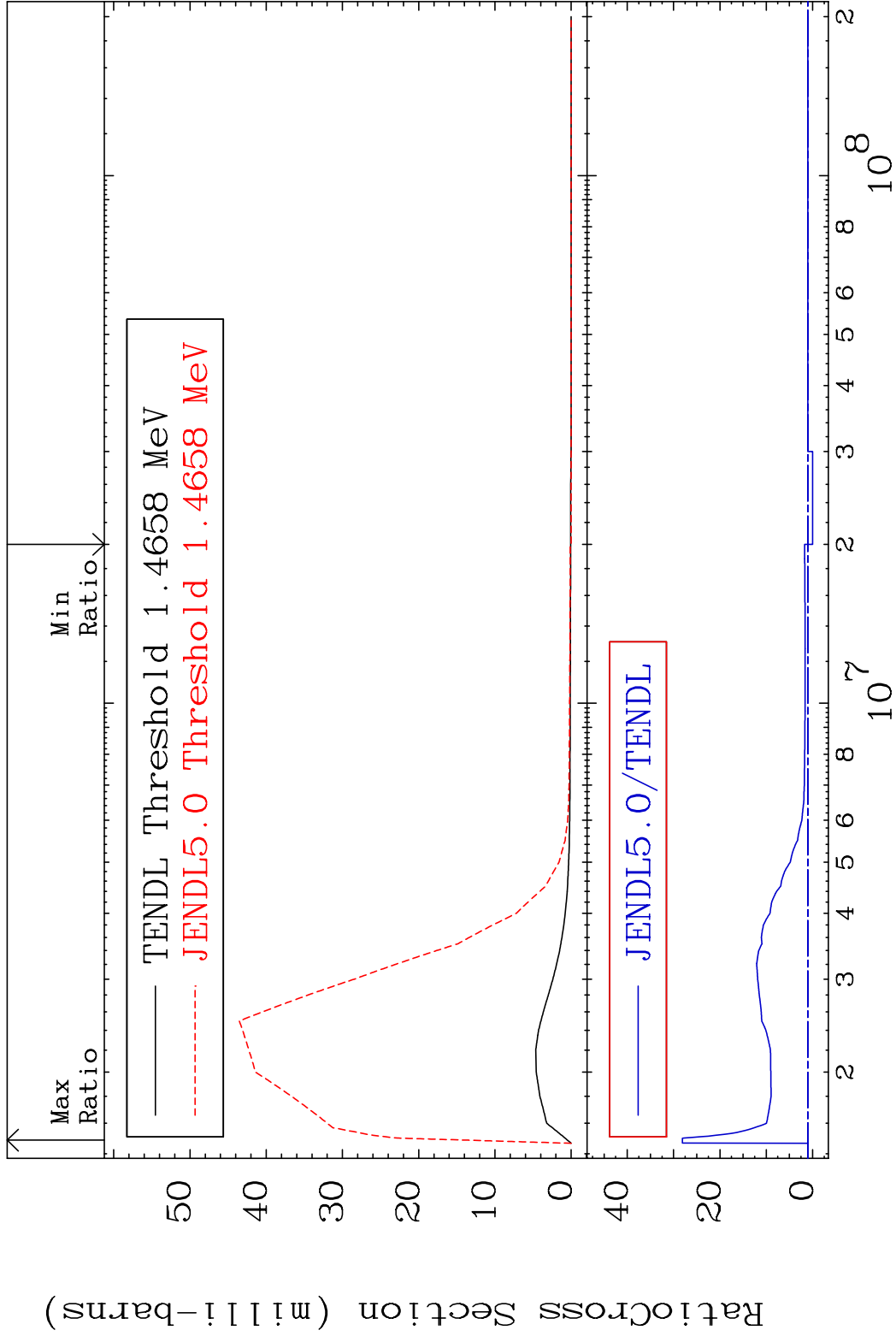
MAT 6143 MT= 76 (n,n') Level 61-Pm-145
Cross Section -100.0 To 241.1 %

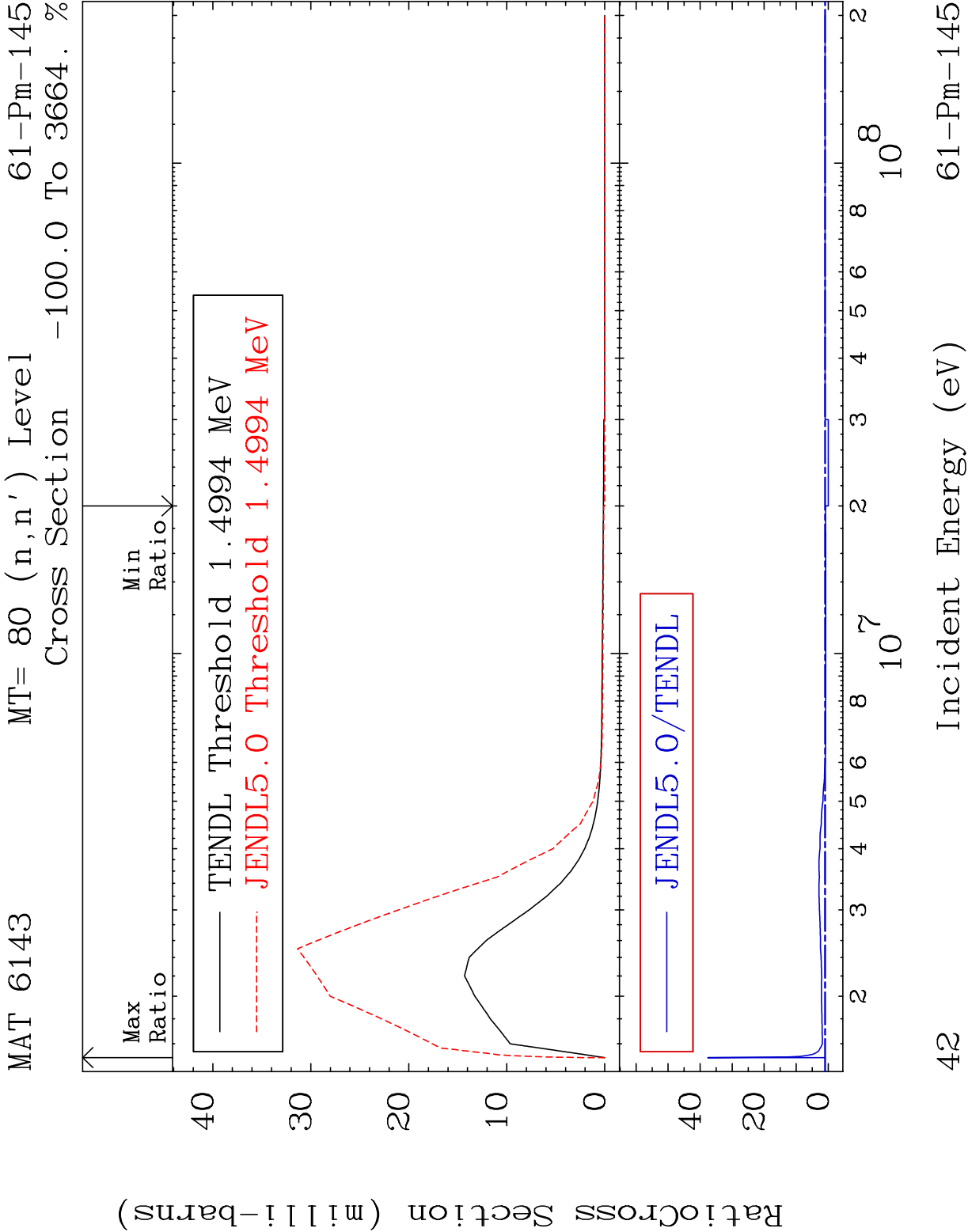


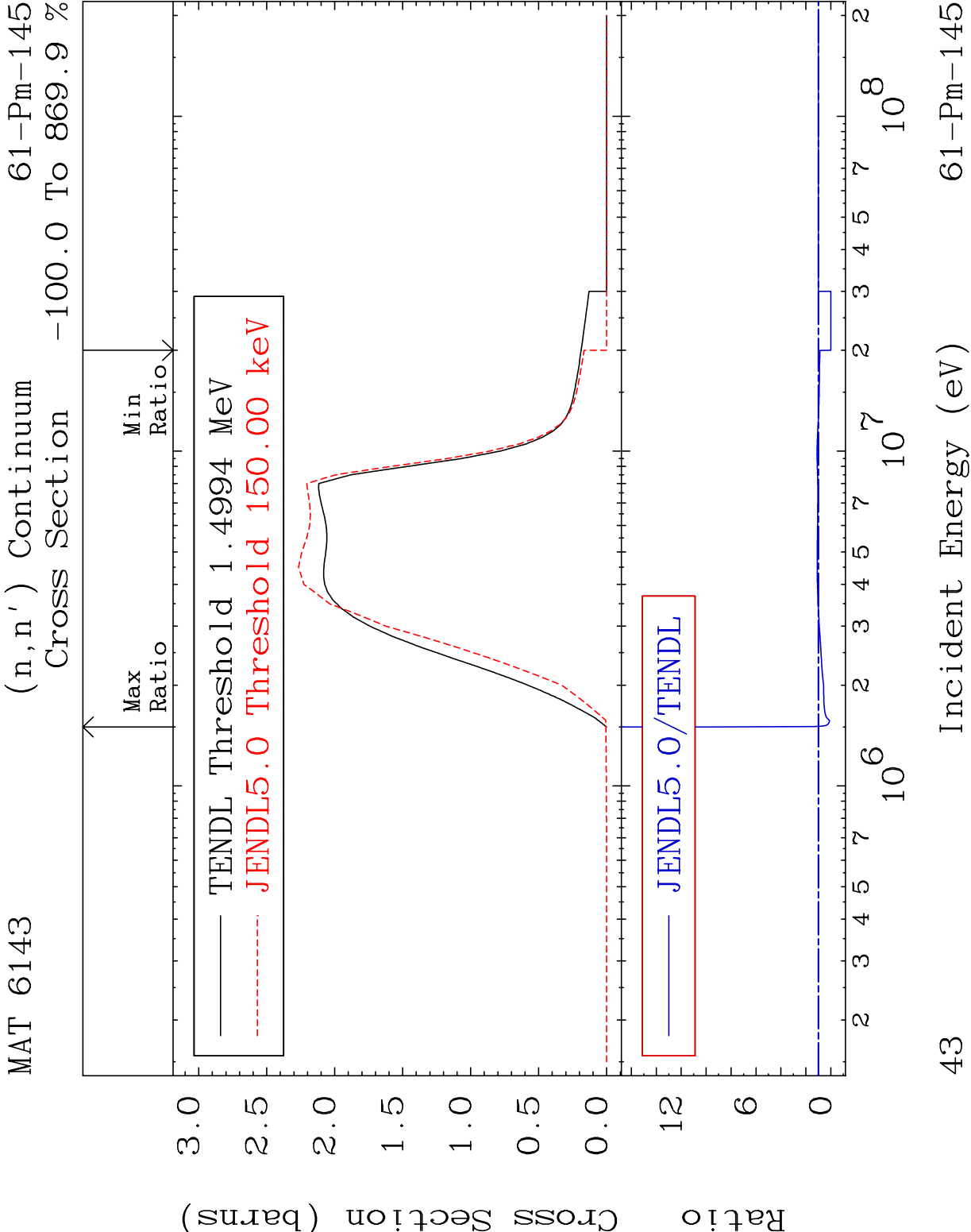


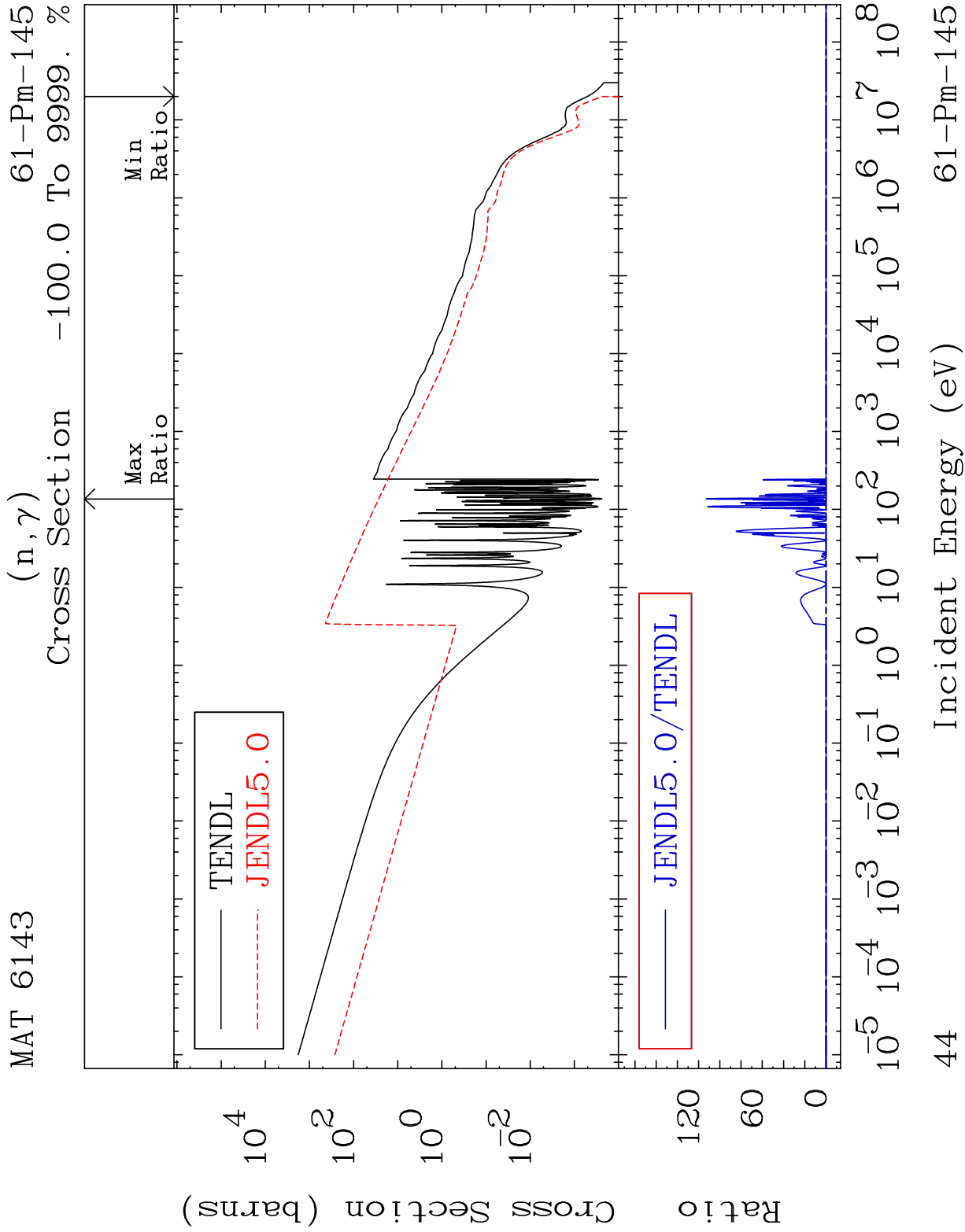


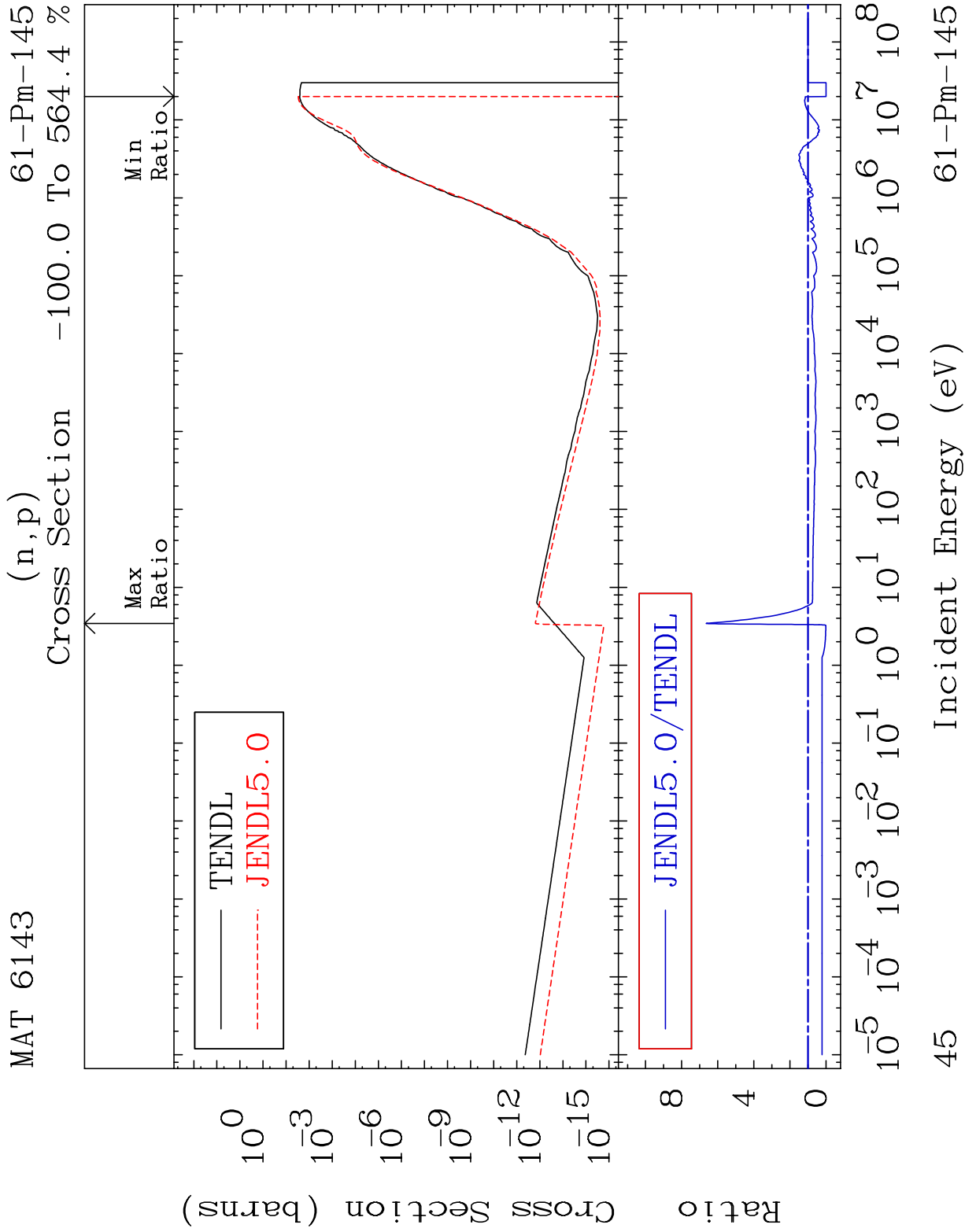
MAT 6143 MT= 79 (n,n') Level 61-Pm-145
Cross Section -100.0 To 2711. %

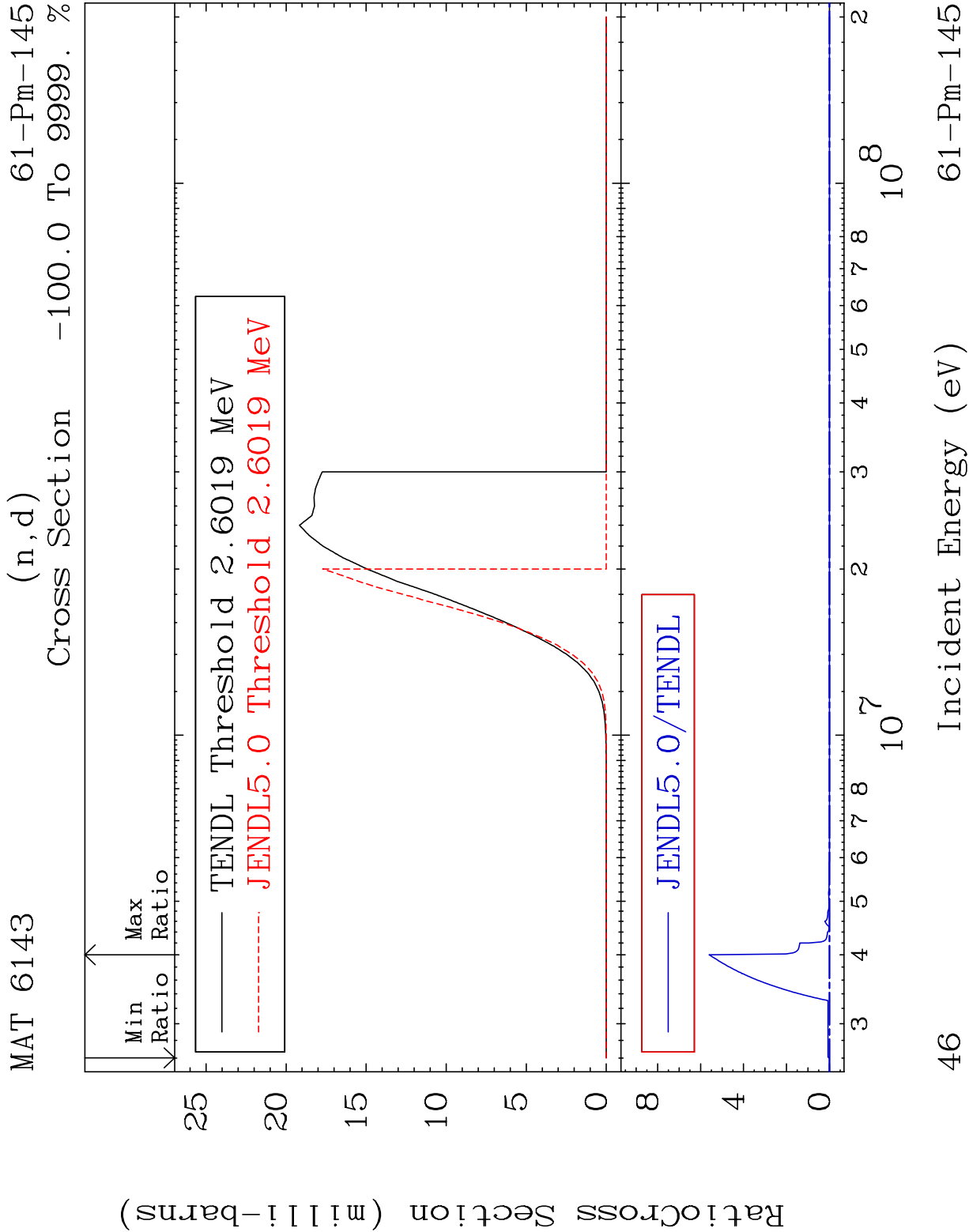


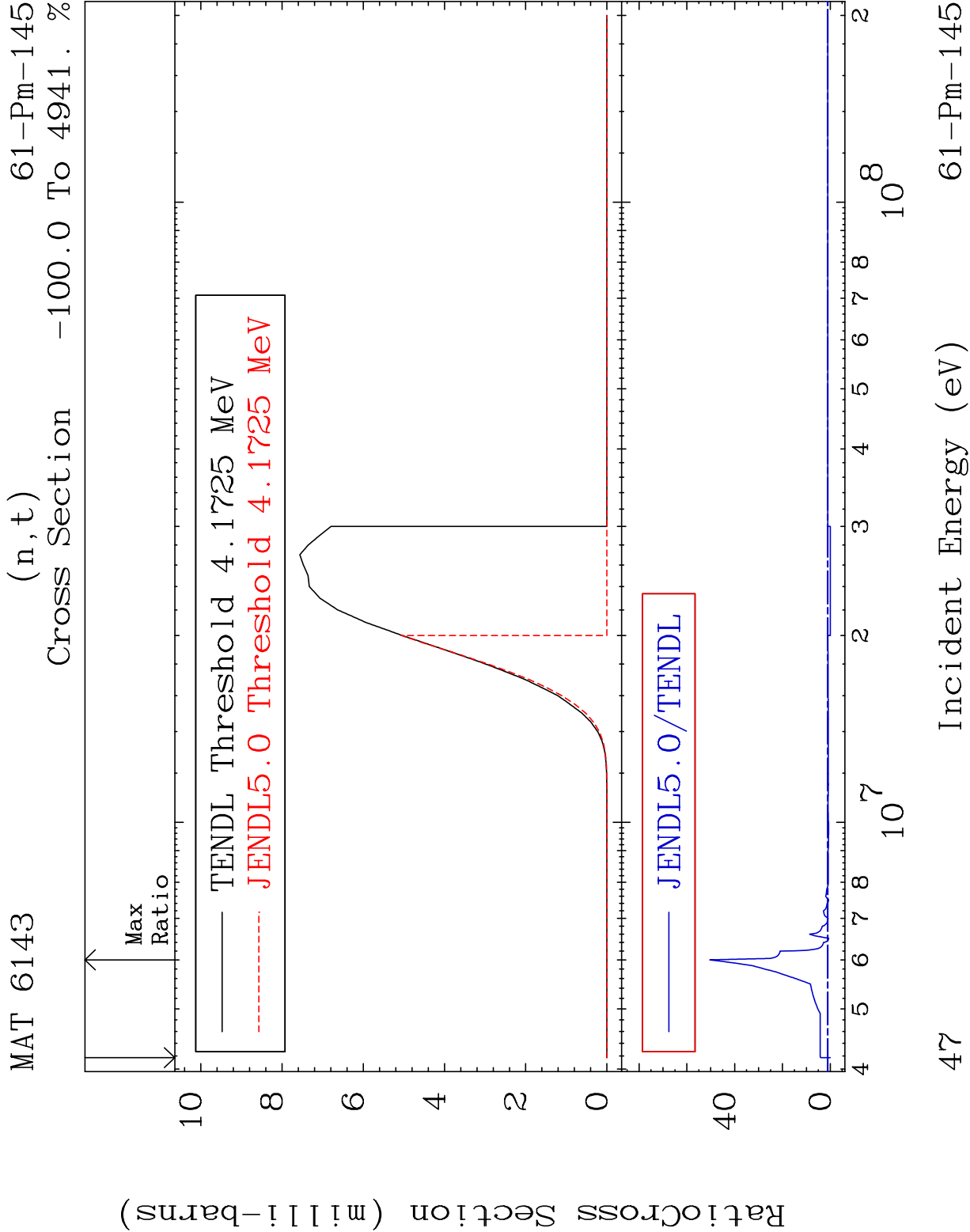


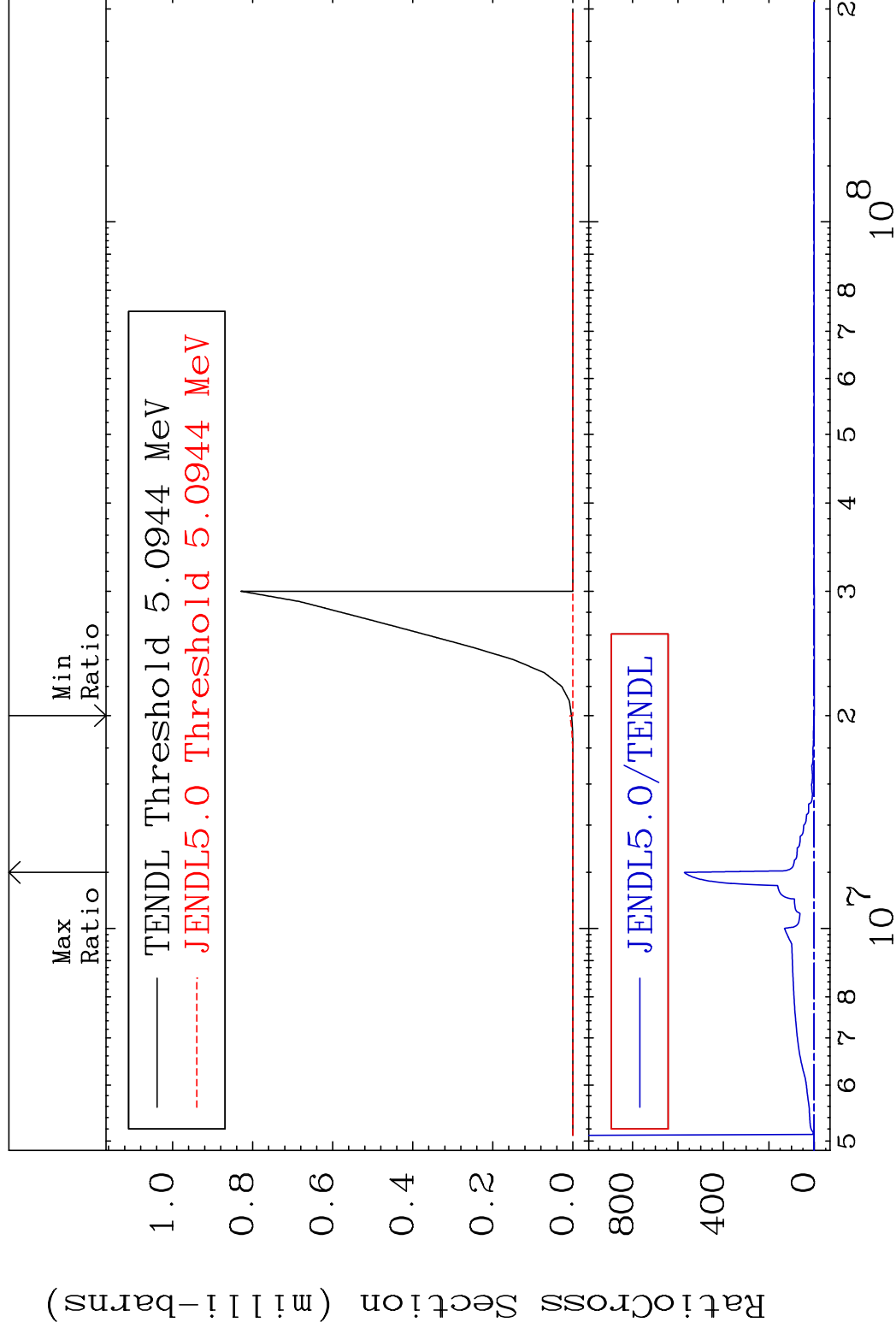


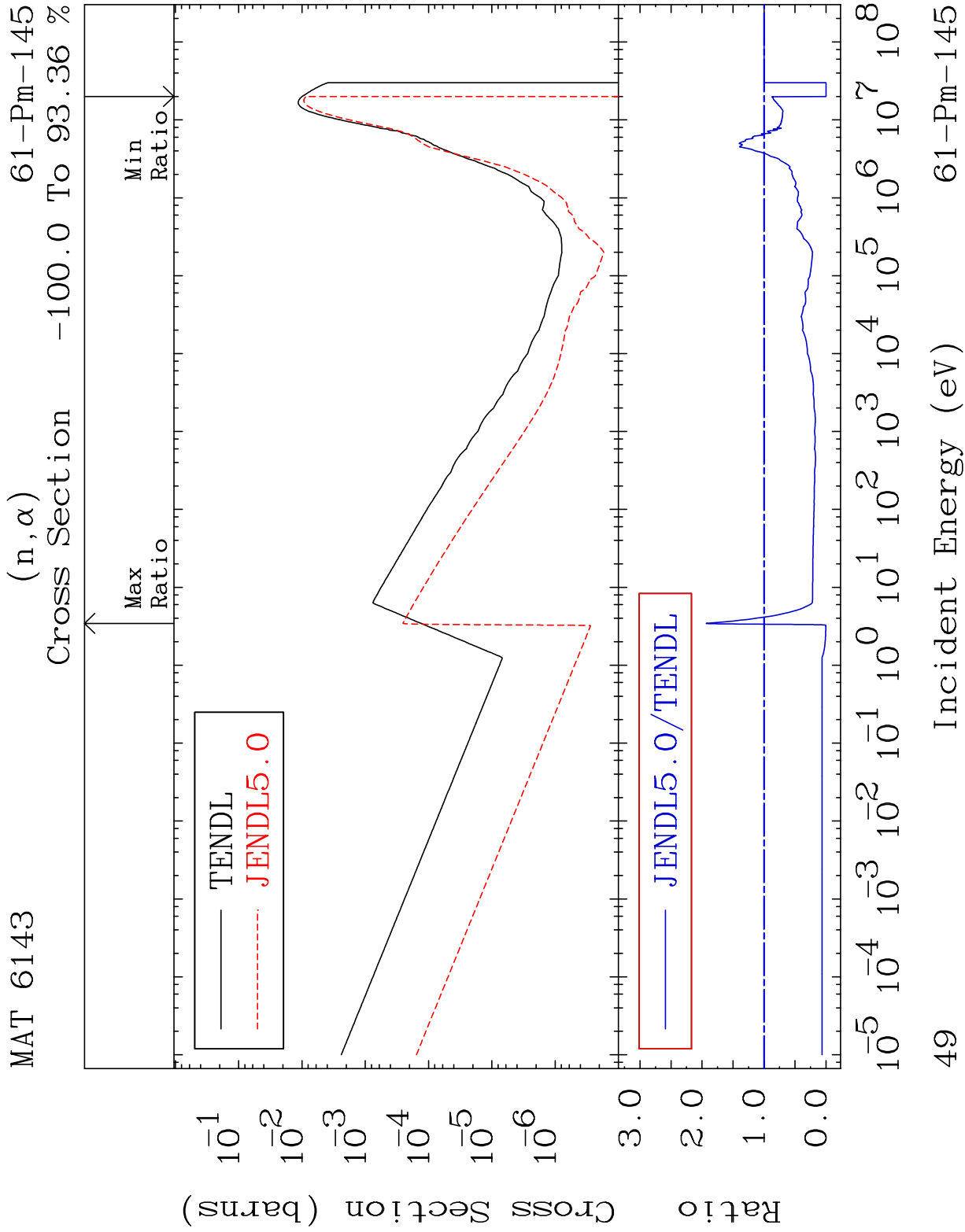


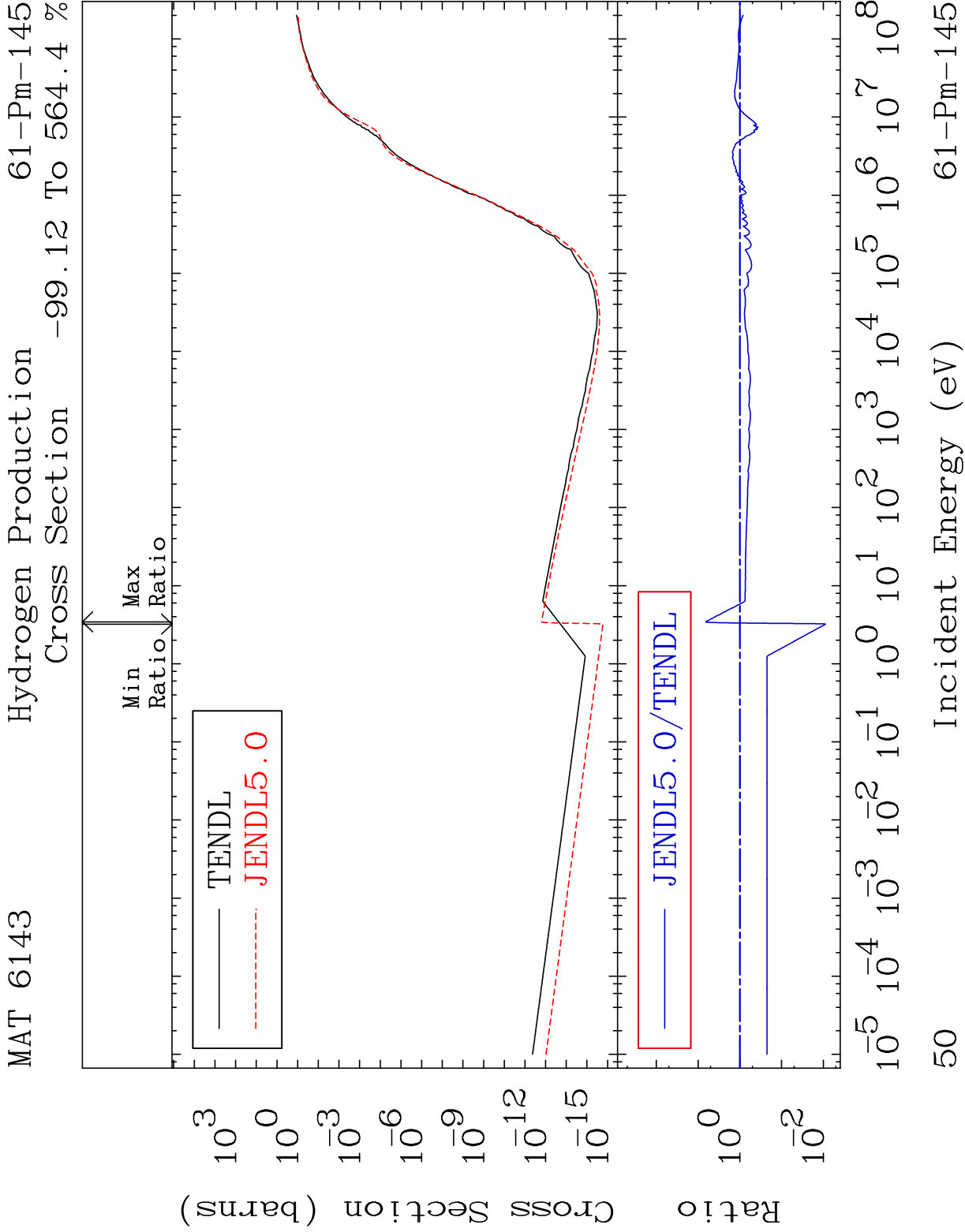


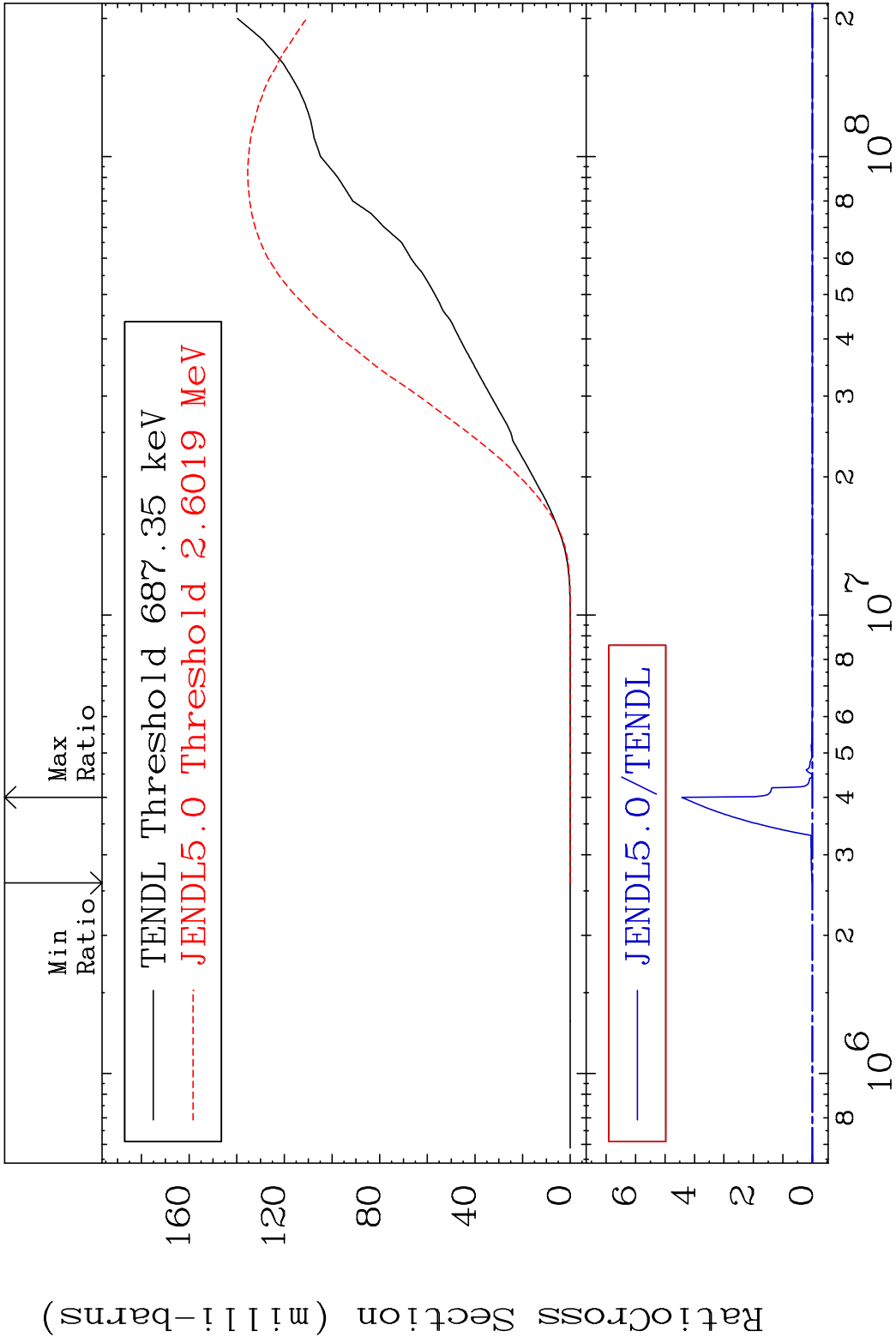


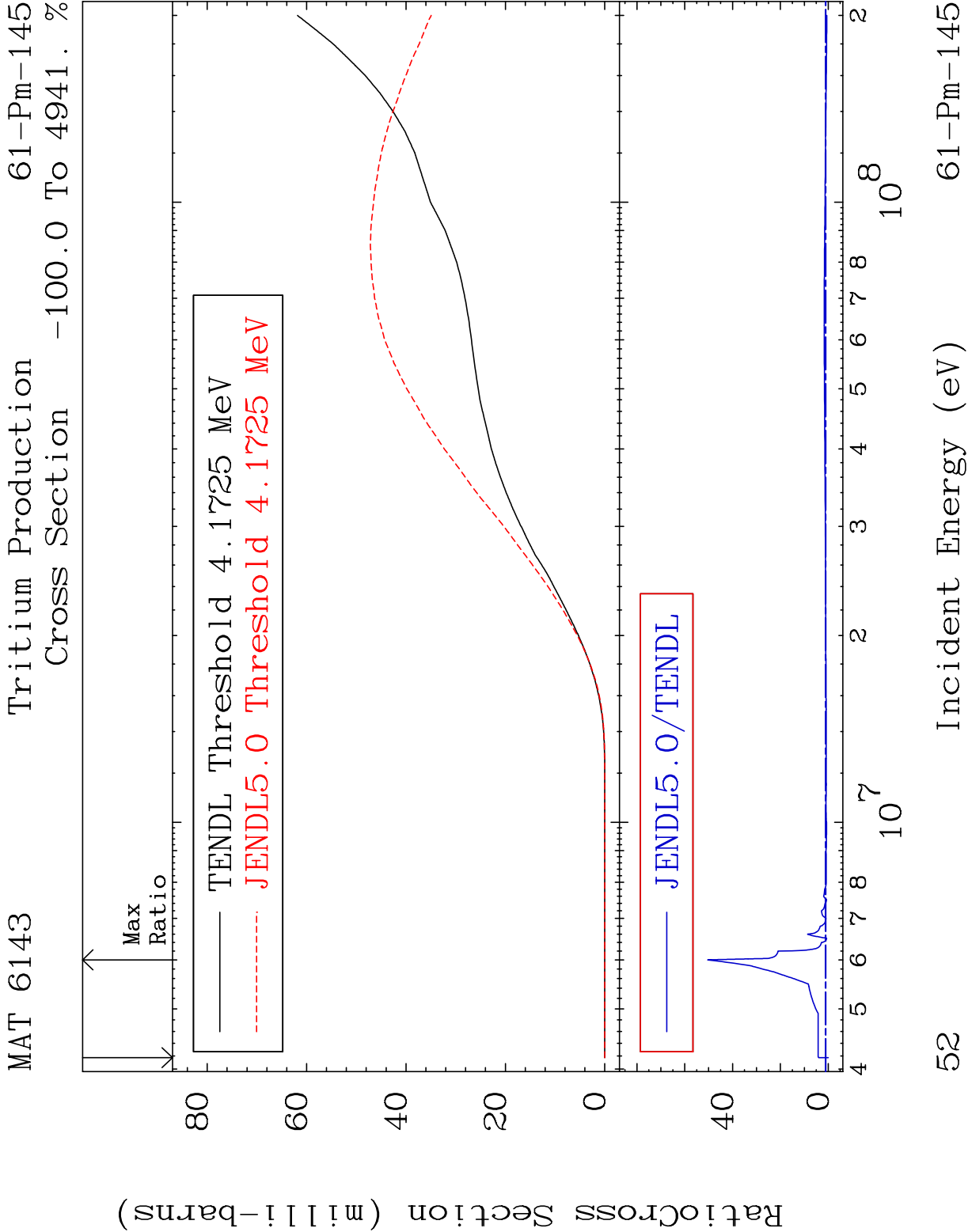


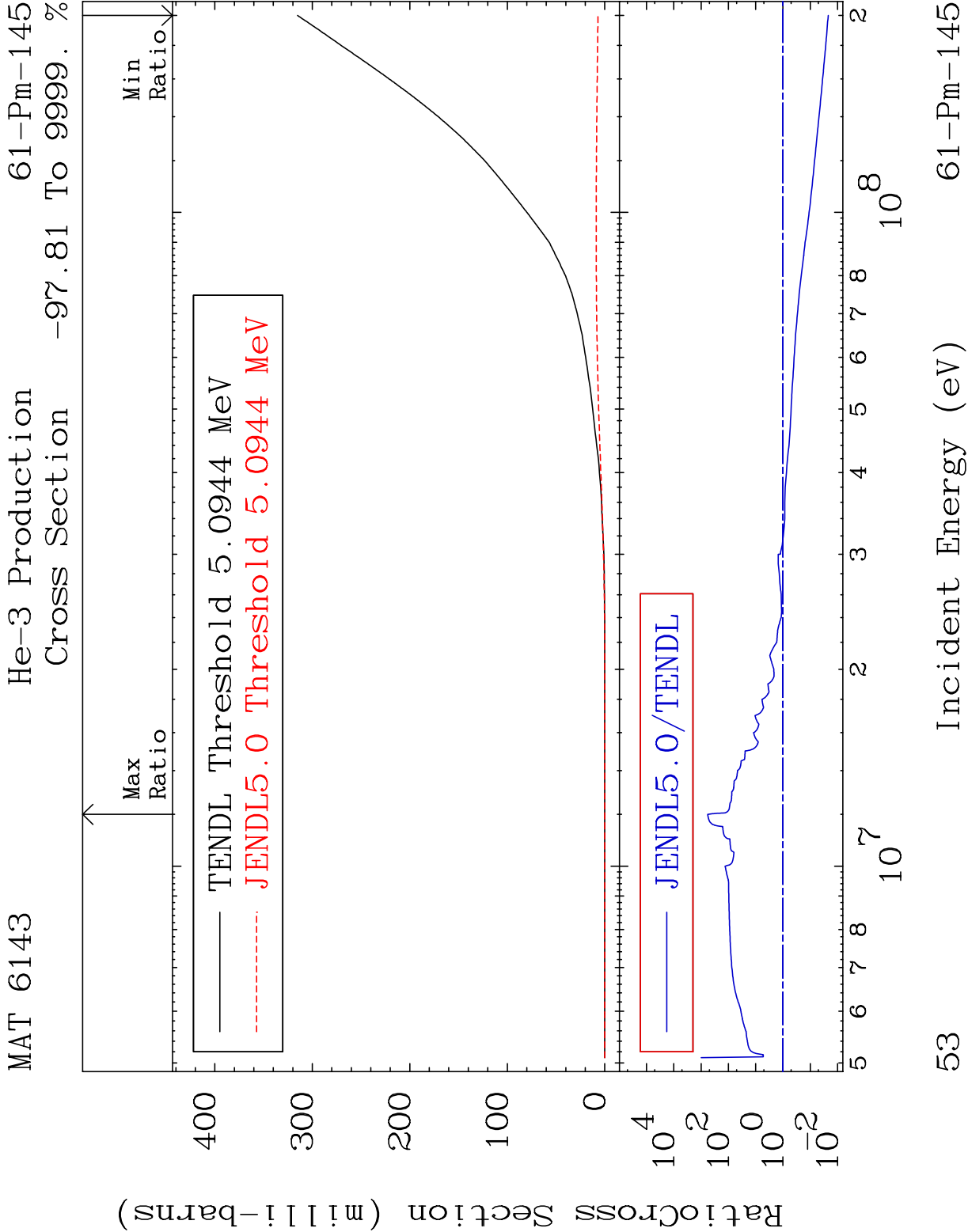


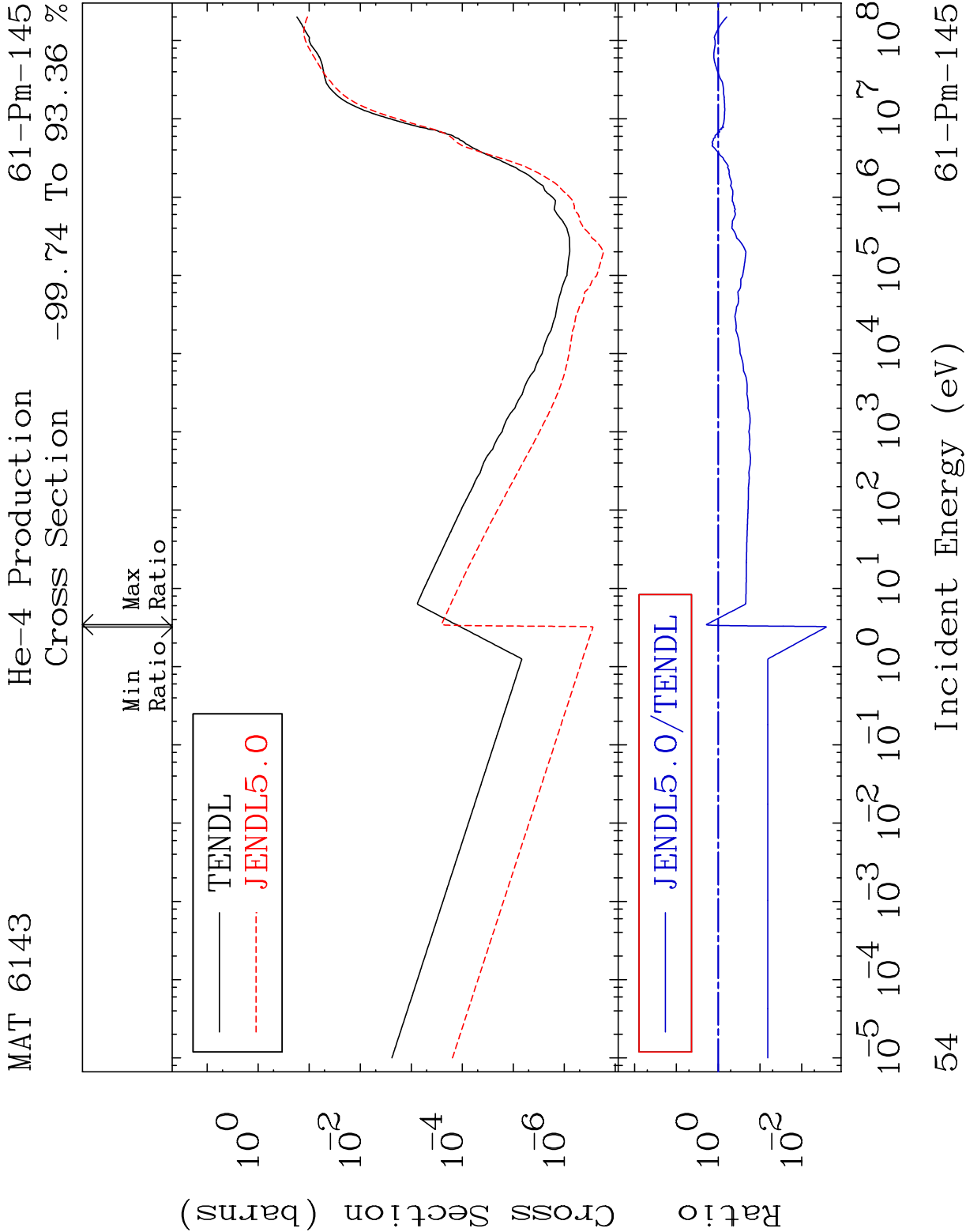


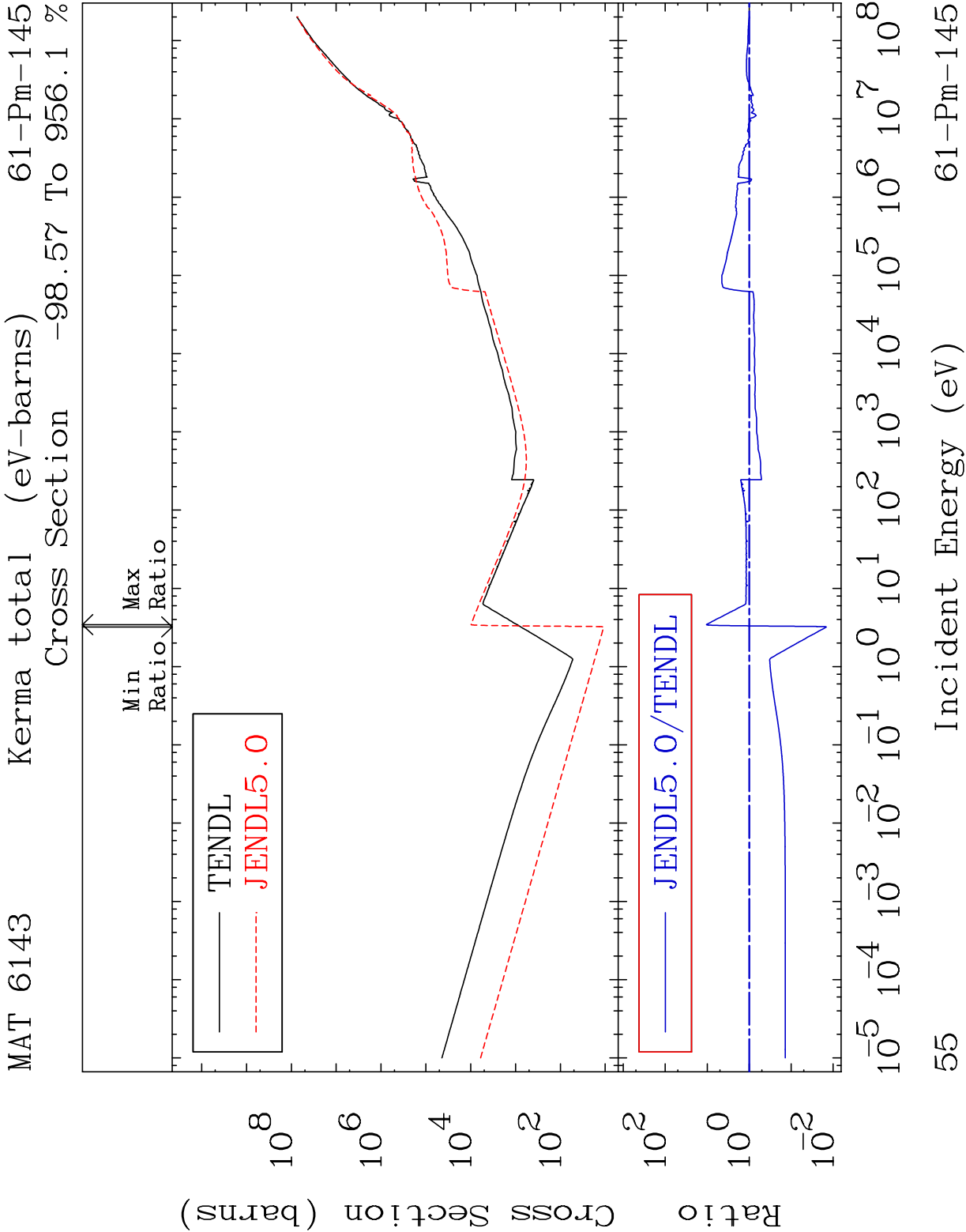


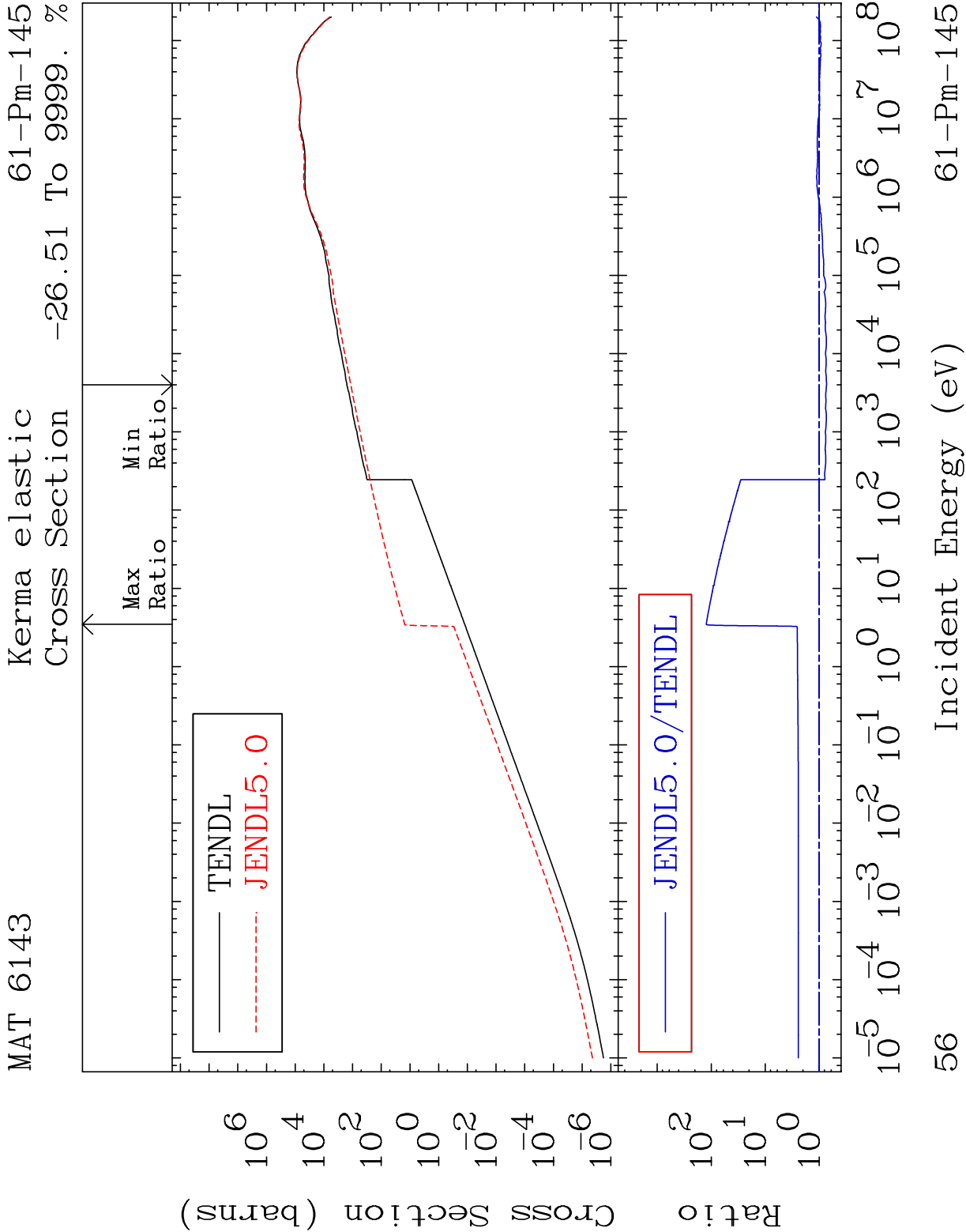






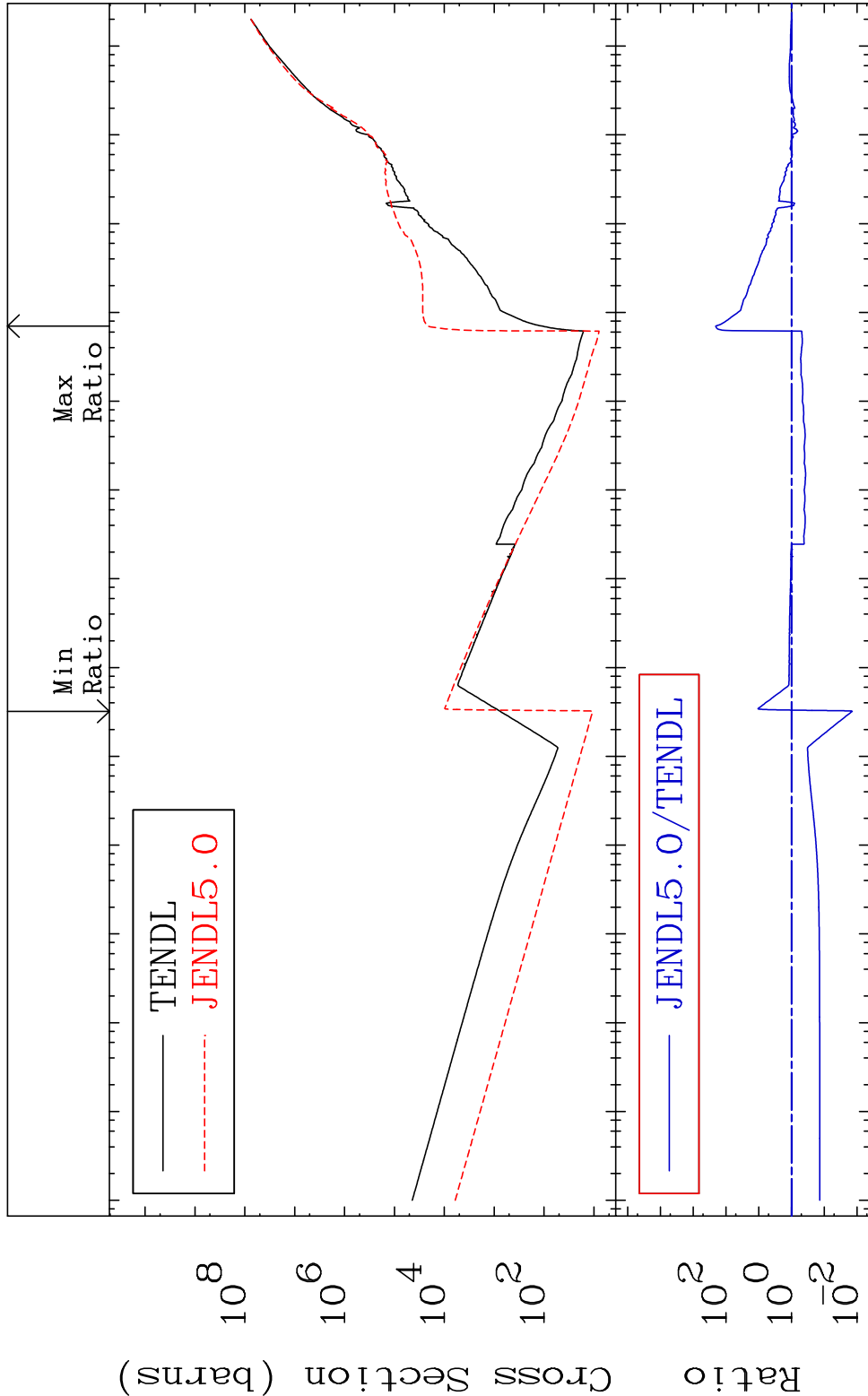


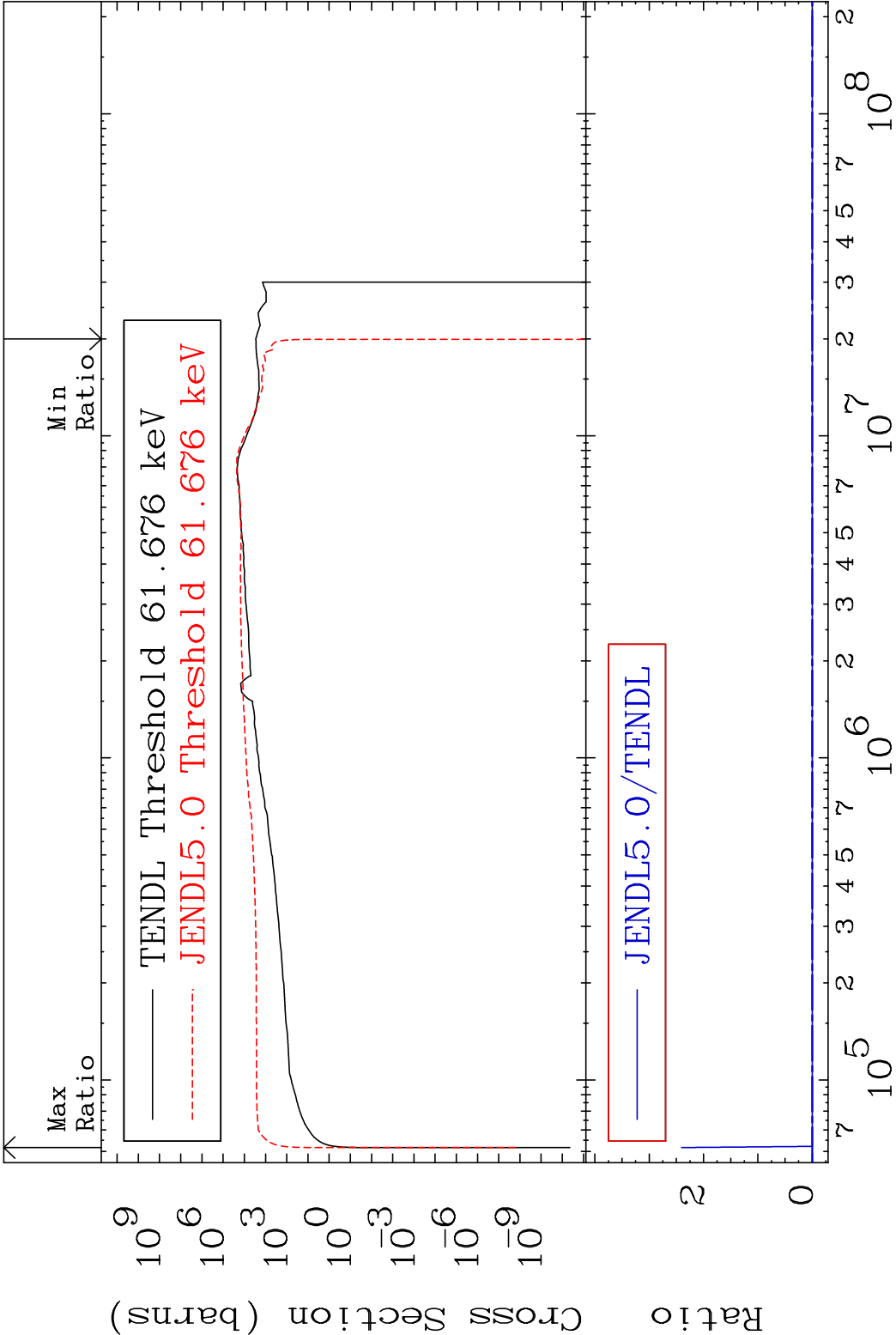




MAT 6143 Kerma non-elastic (all but mt2) 61-Pm-145

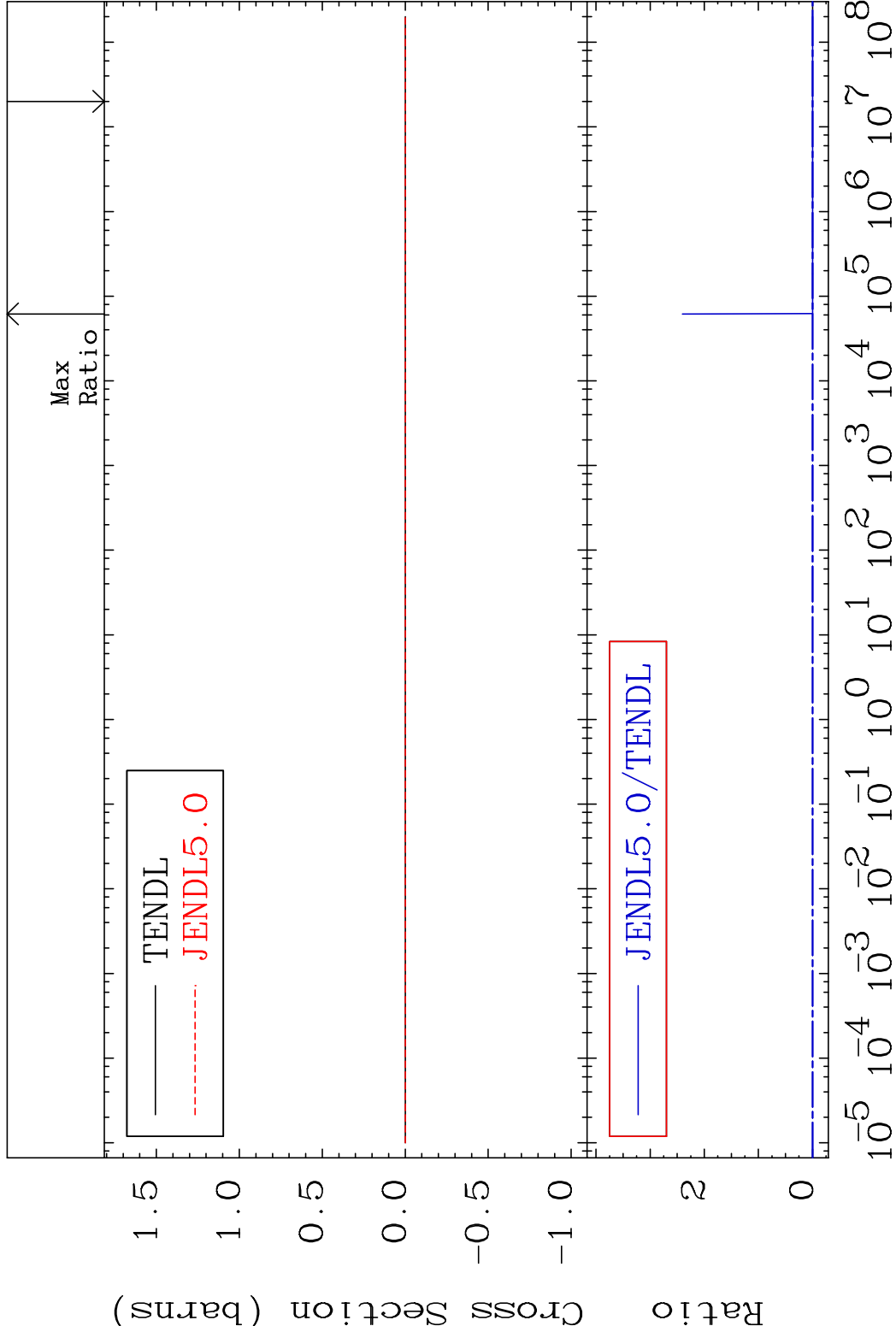
Cross Section -98.60 To 9999. %



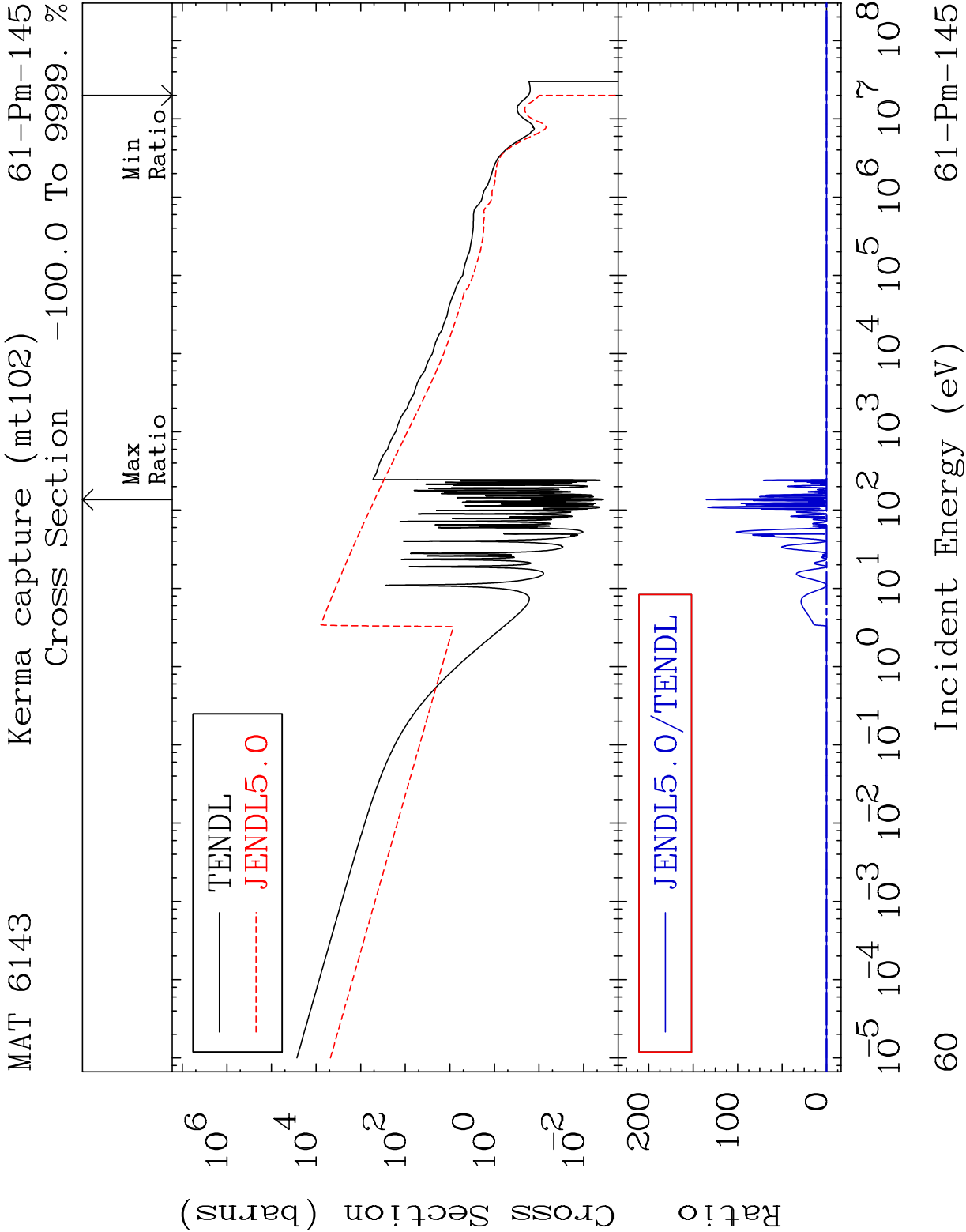


MAT 6143Kerma fission (mt18 or mt19-20-21-38)61-Pm-145

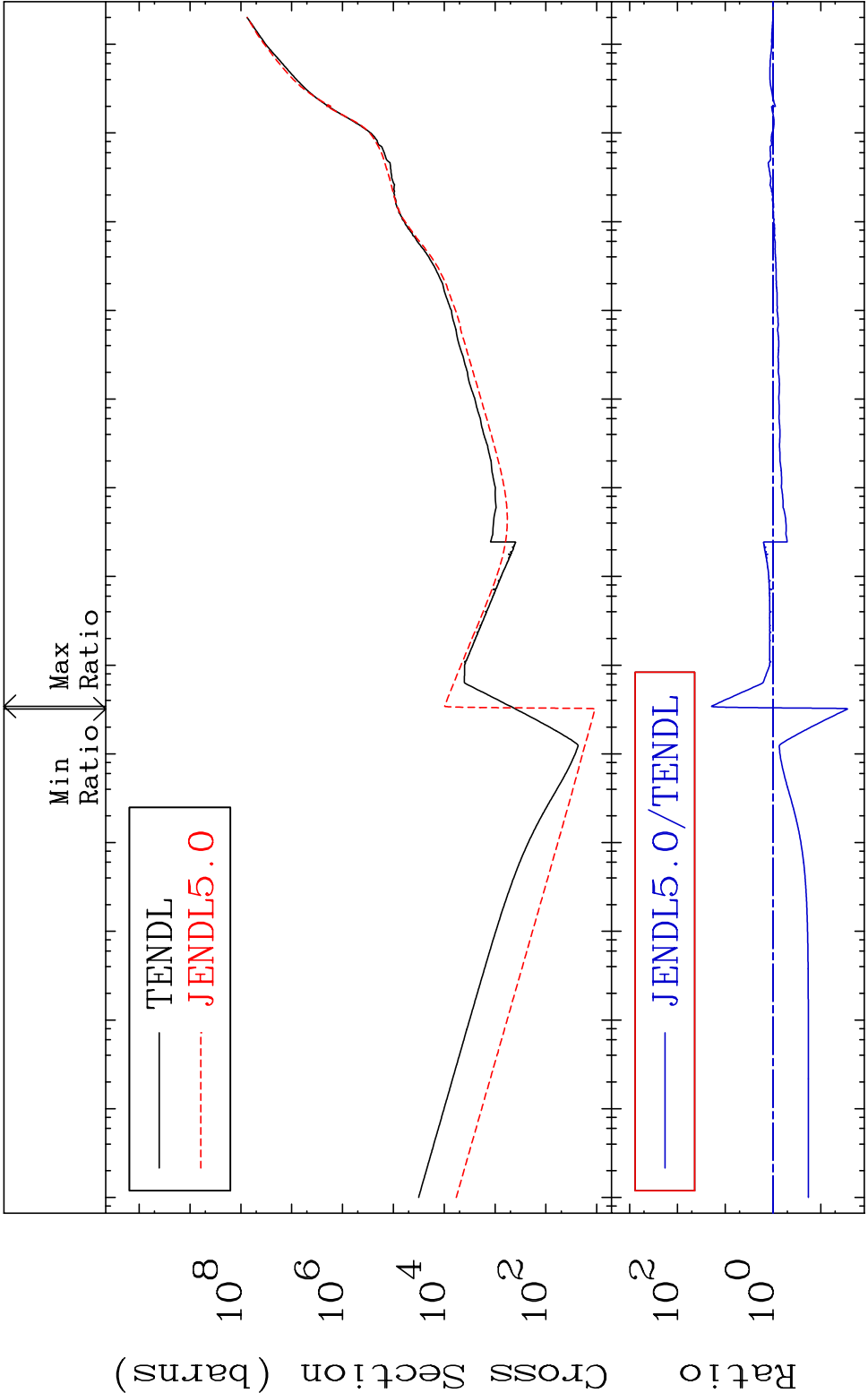
Cross Section -101.7 To 9999. %



59 Incident Energy (eV) 61-Pm-145

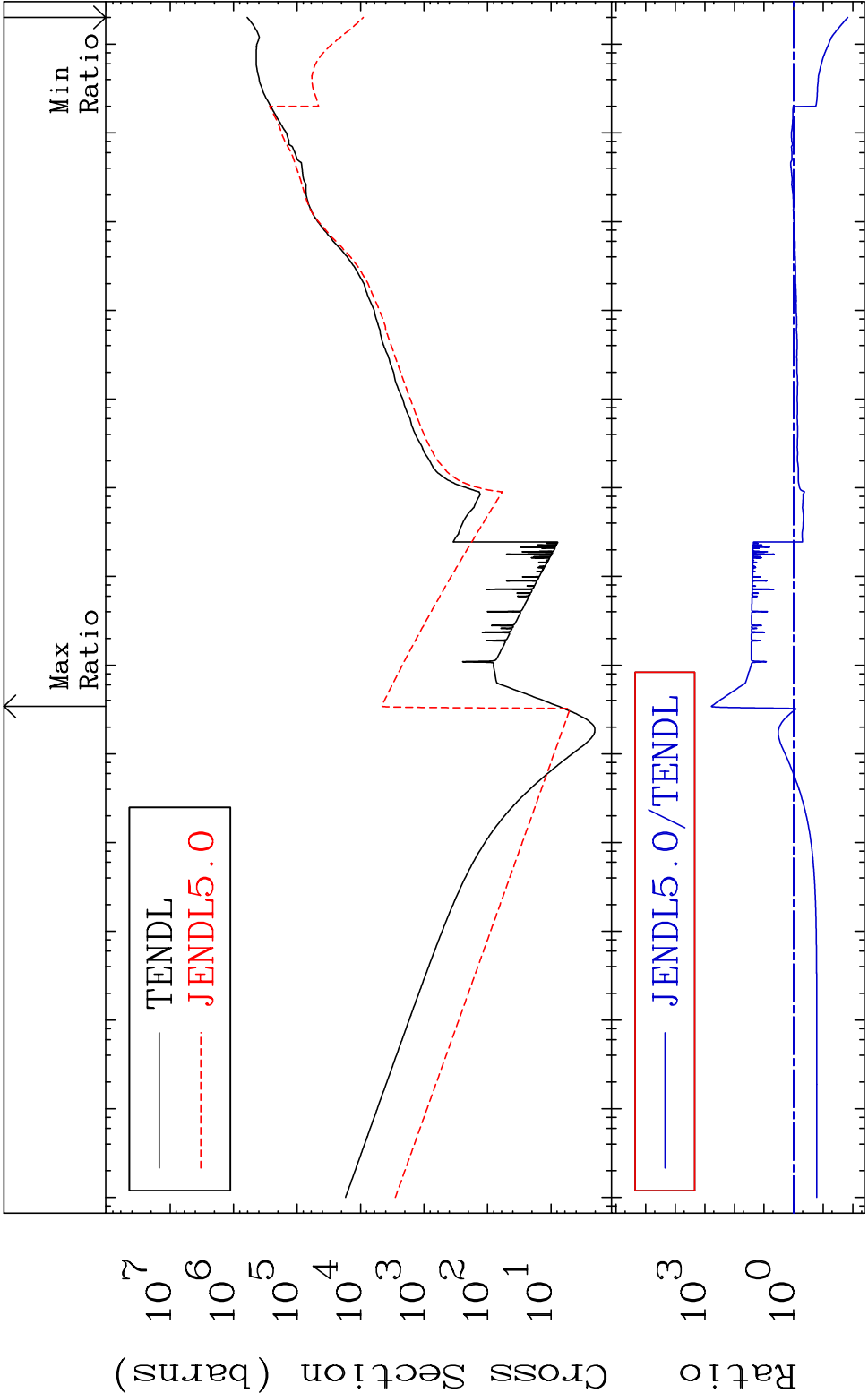


MAT 6143 Total kinematic kerma (high limit) 61-Pm-145
Cross Section -97.27 To 1853. %



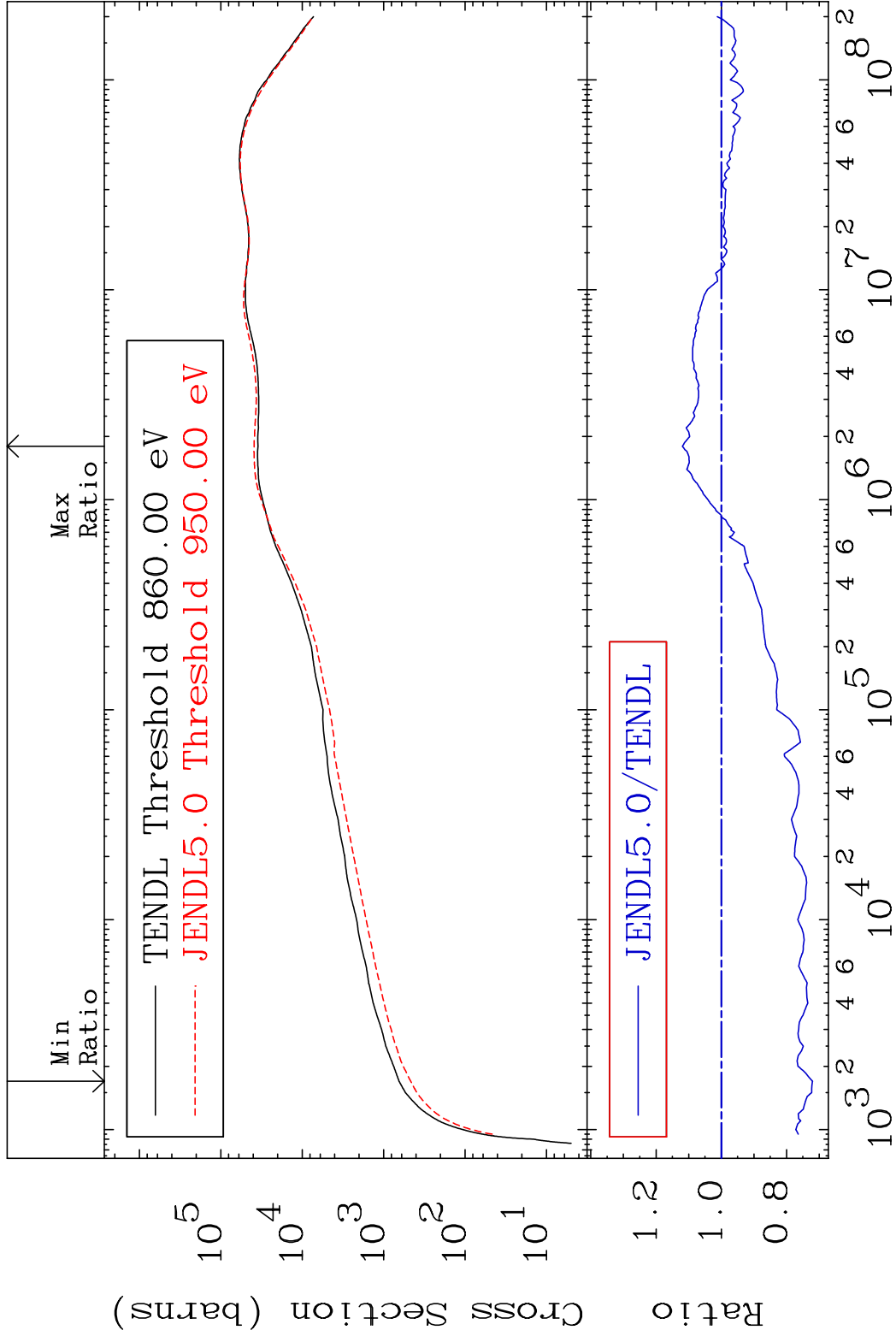
62 Incident Energy (eV) 61-Pm-145

MAT 6143 Dpa total (eV-barns) 61-Pm-145
Cross Section -98.52 To 9999. %



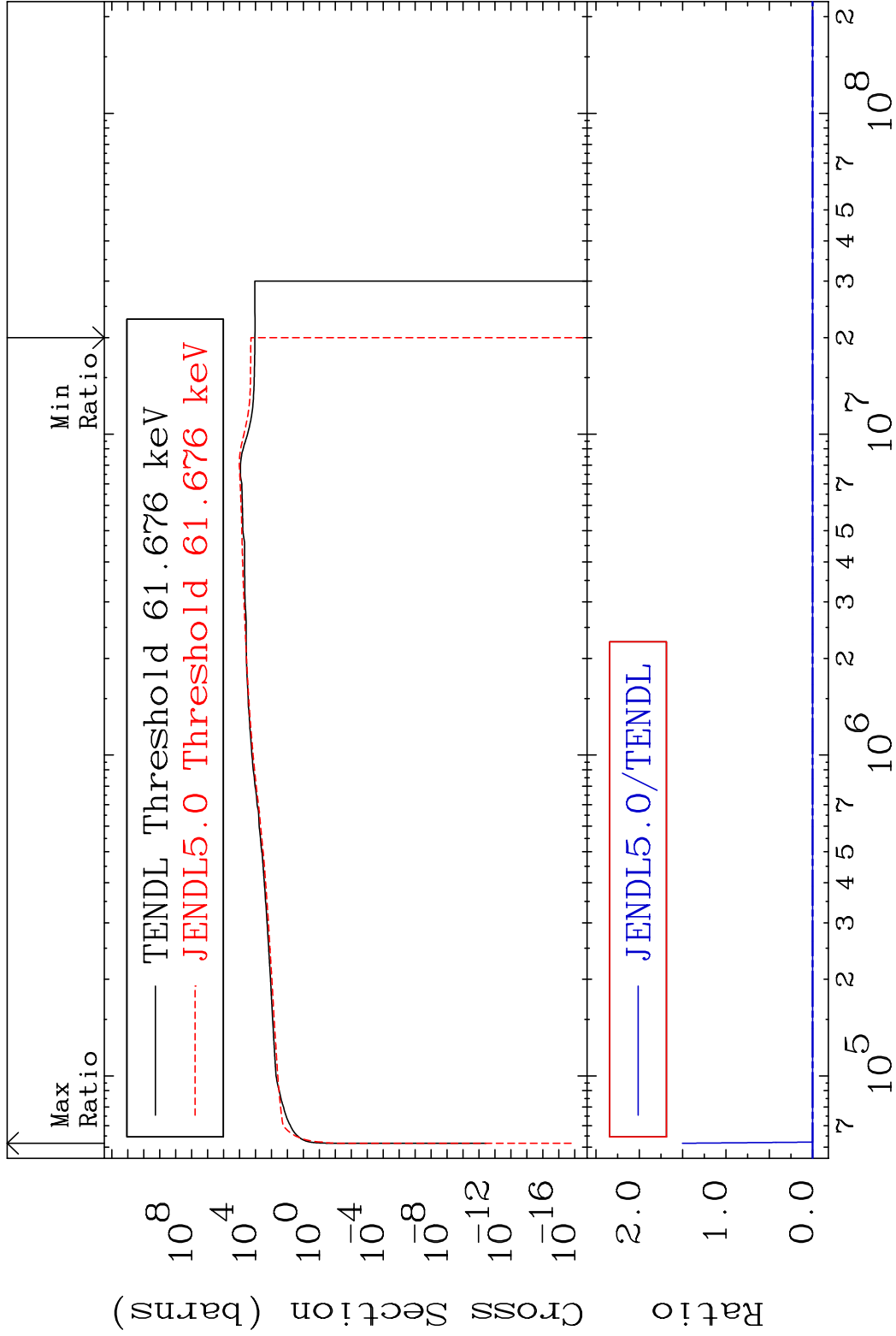
63 Incident Energy (eV) 61-Pm-145

MAT 6143 Dpa elastic (mt2) 61-Pm-145
Cross Section -27.98 To 11.94 %

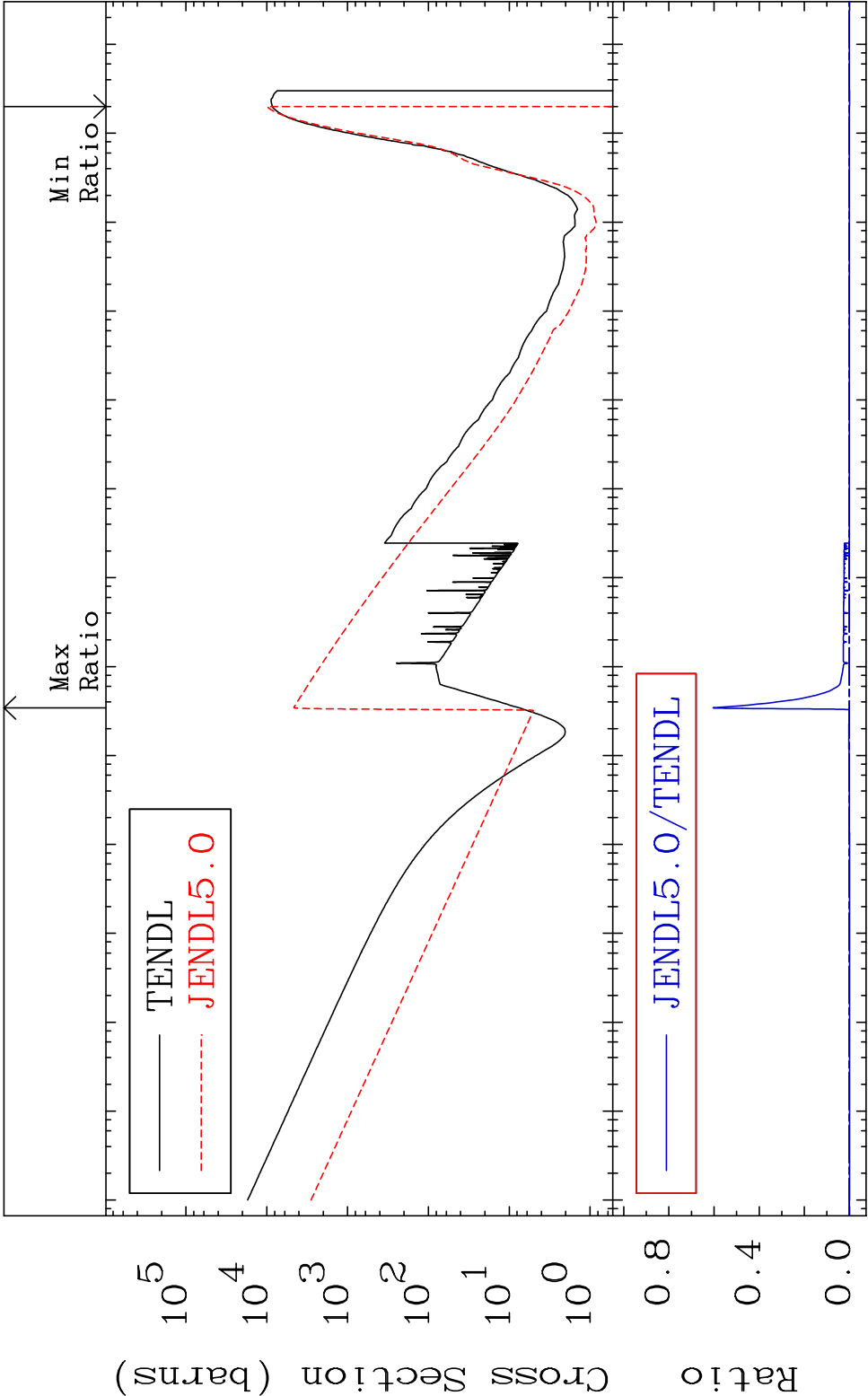


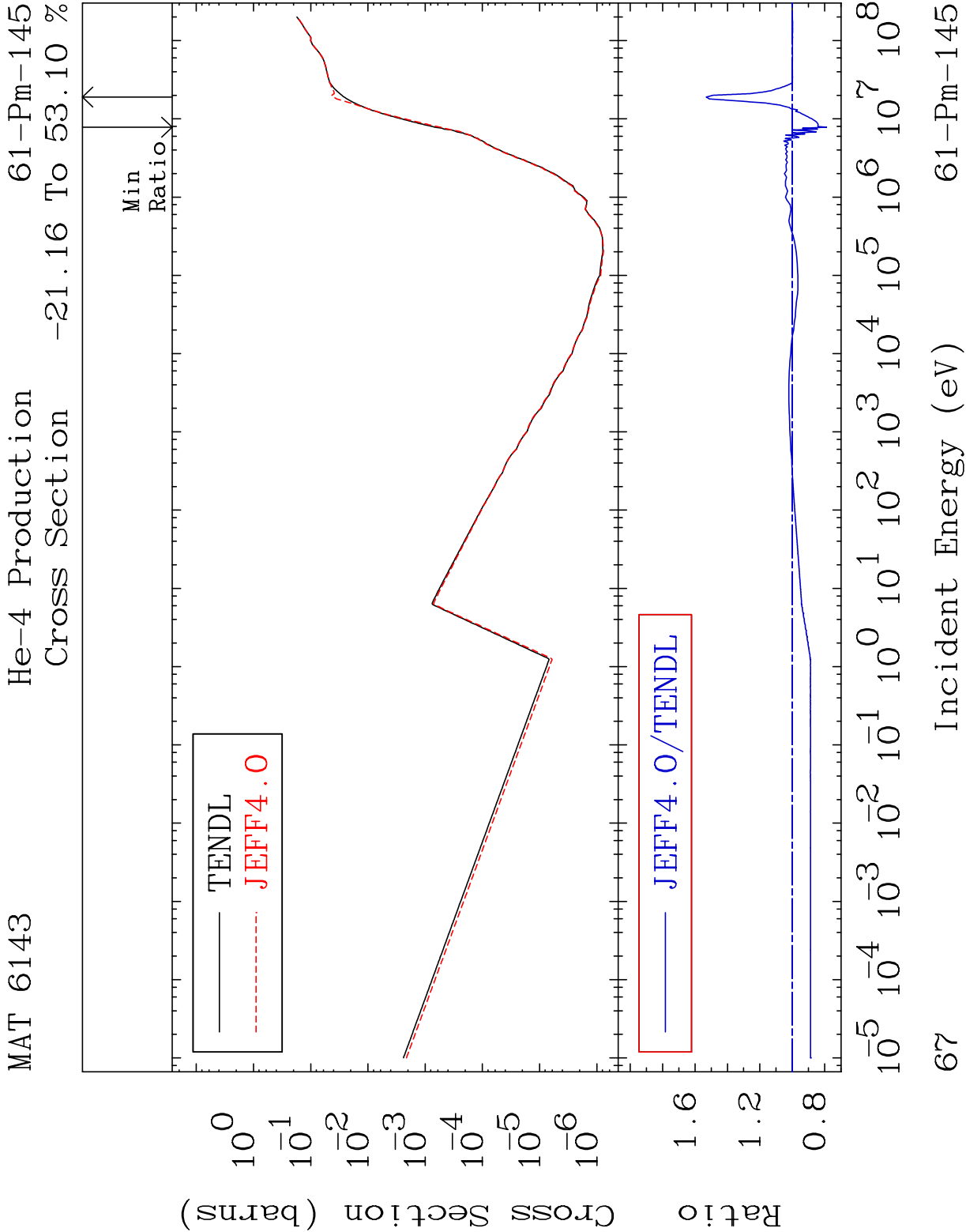
64 Incident Energy (eV) 61-Pm-145

MAT 6143 Dpa inelastic (mt51-91) 61-Pm-145
Cross Section -100.0 To 9999. %

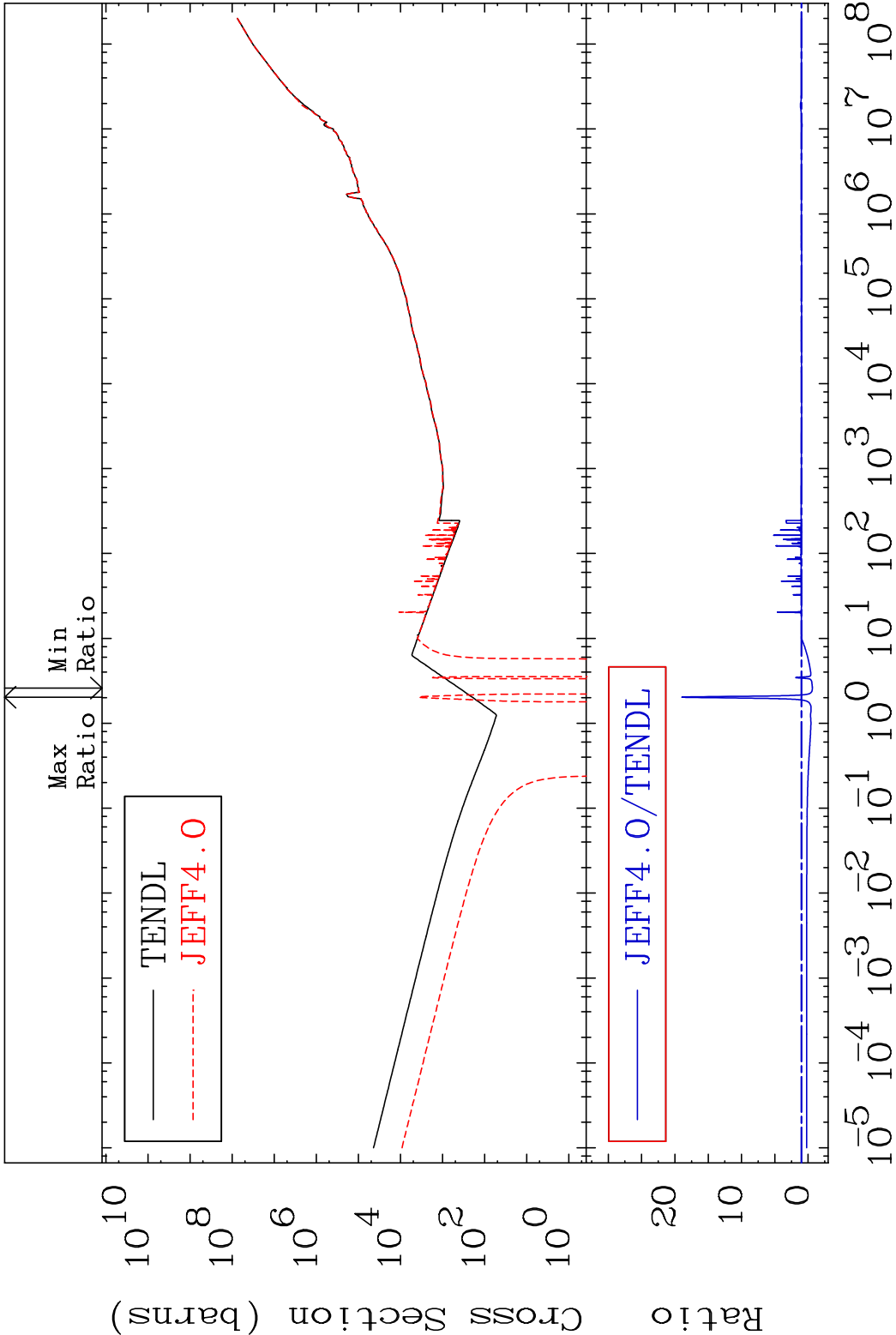


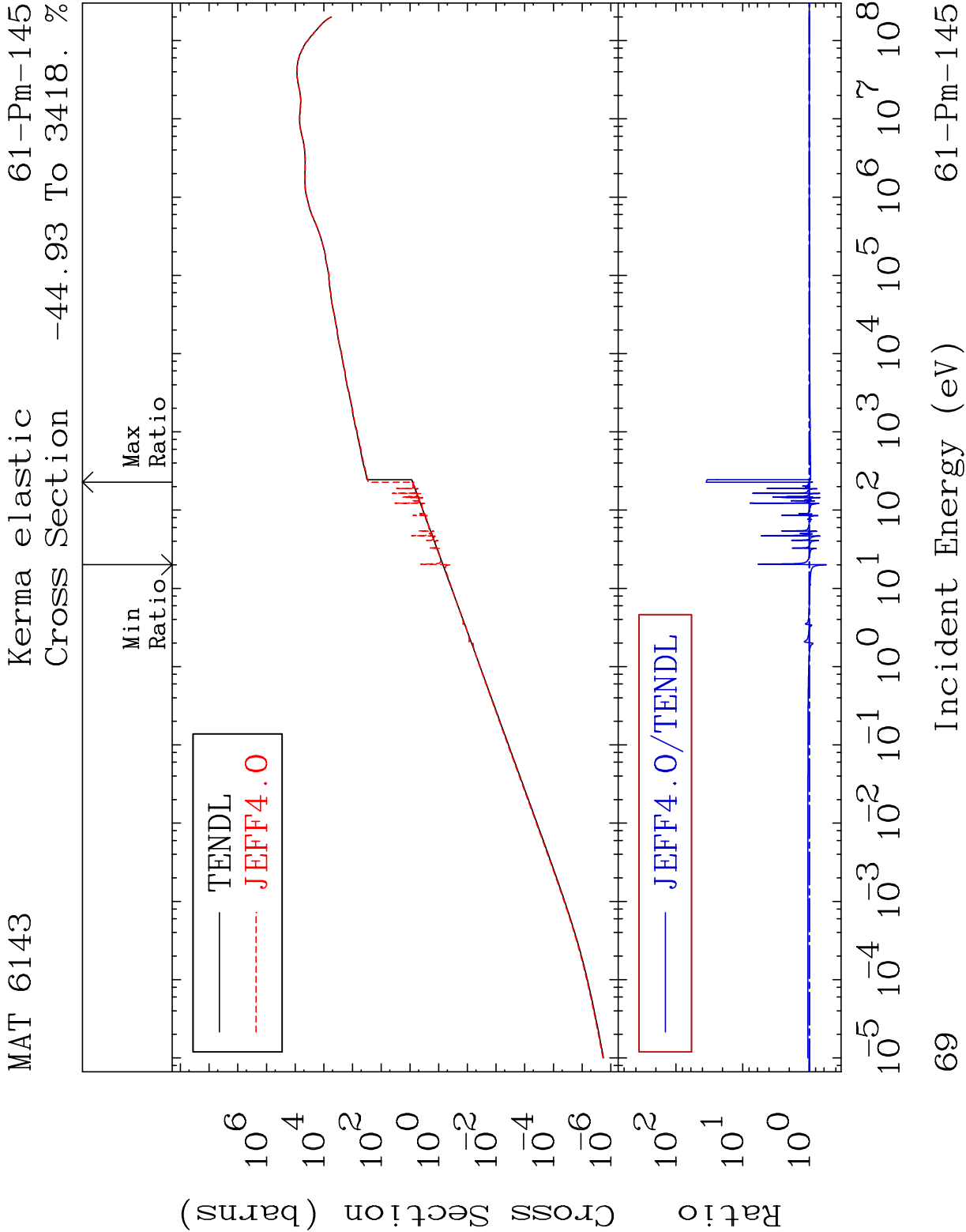
65 Incident Energy (eV) 61-Pm-145



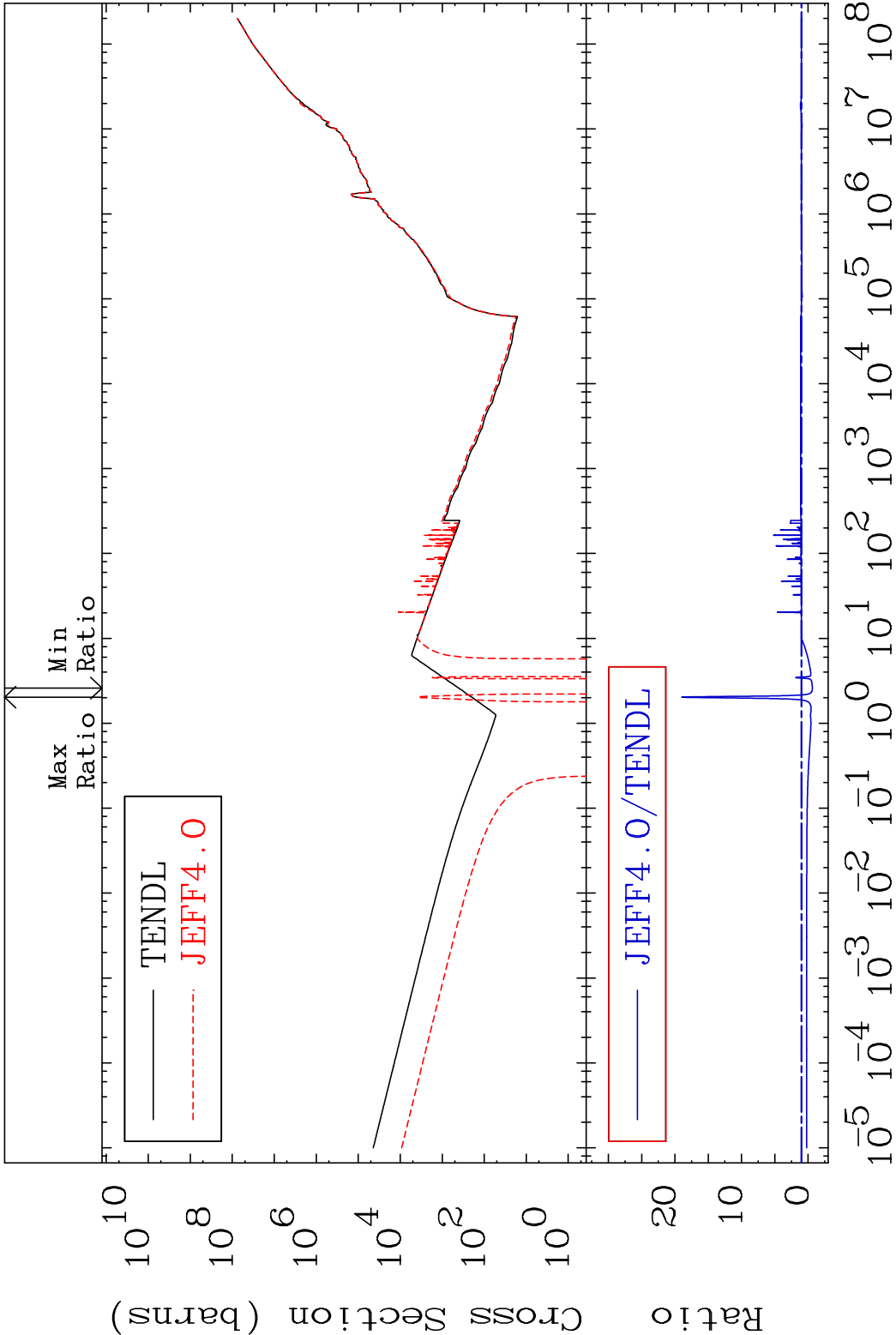


MAT 6143 Kerma total (eV-barns) 61-Pm-145
Cross Section -163.3 To 1797. %

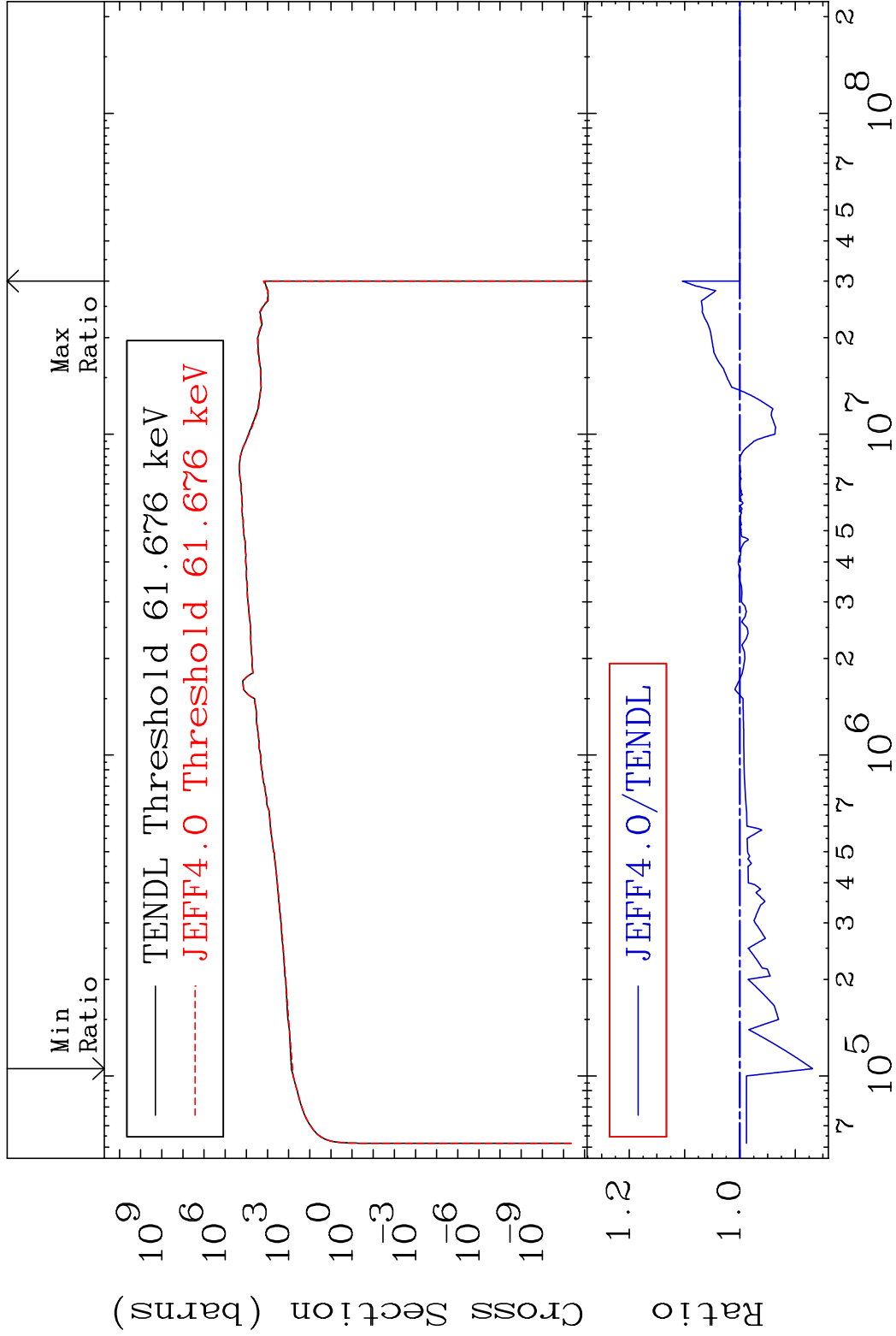




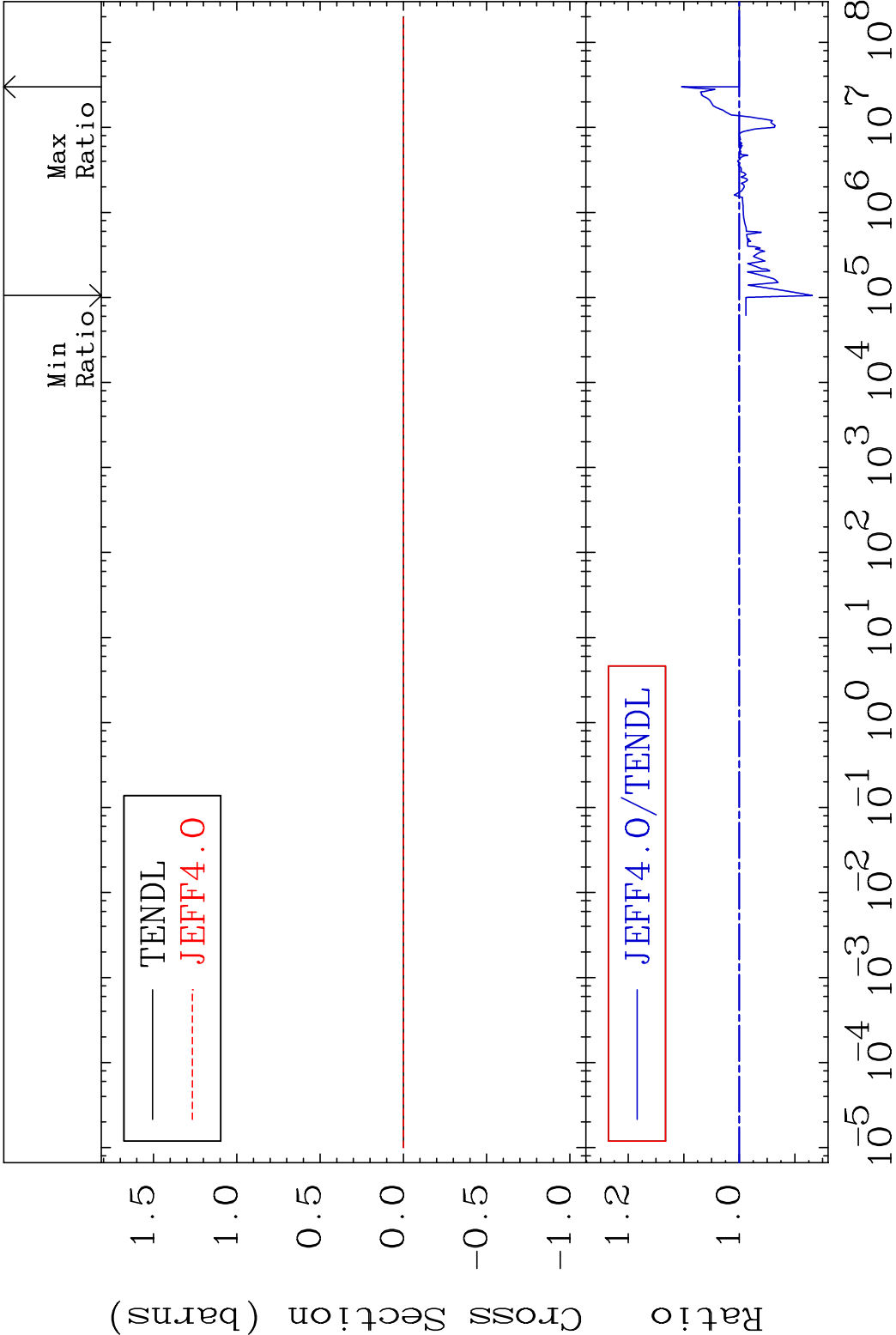
MAT 6143 Kerma non-elastic (all but mt2) 61-Pm-145
Cross Section -163.4 To 1798. %



70 Incident Energy (eV) 61-Pm-145



MAT 6143Kerma fission (mt18 or mt19-20-21-38)61-Pm-145
Cross Section -13.13 To 10.40 %

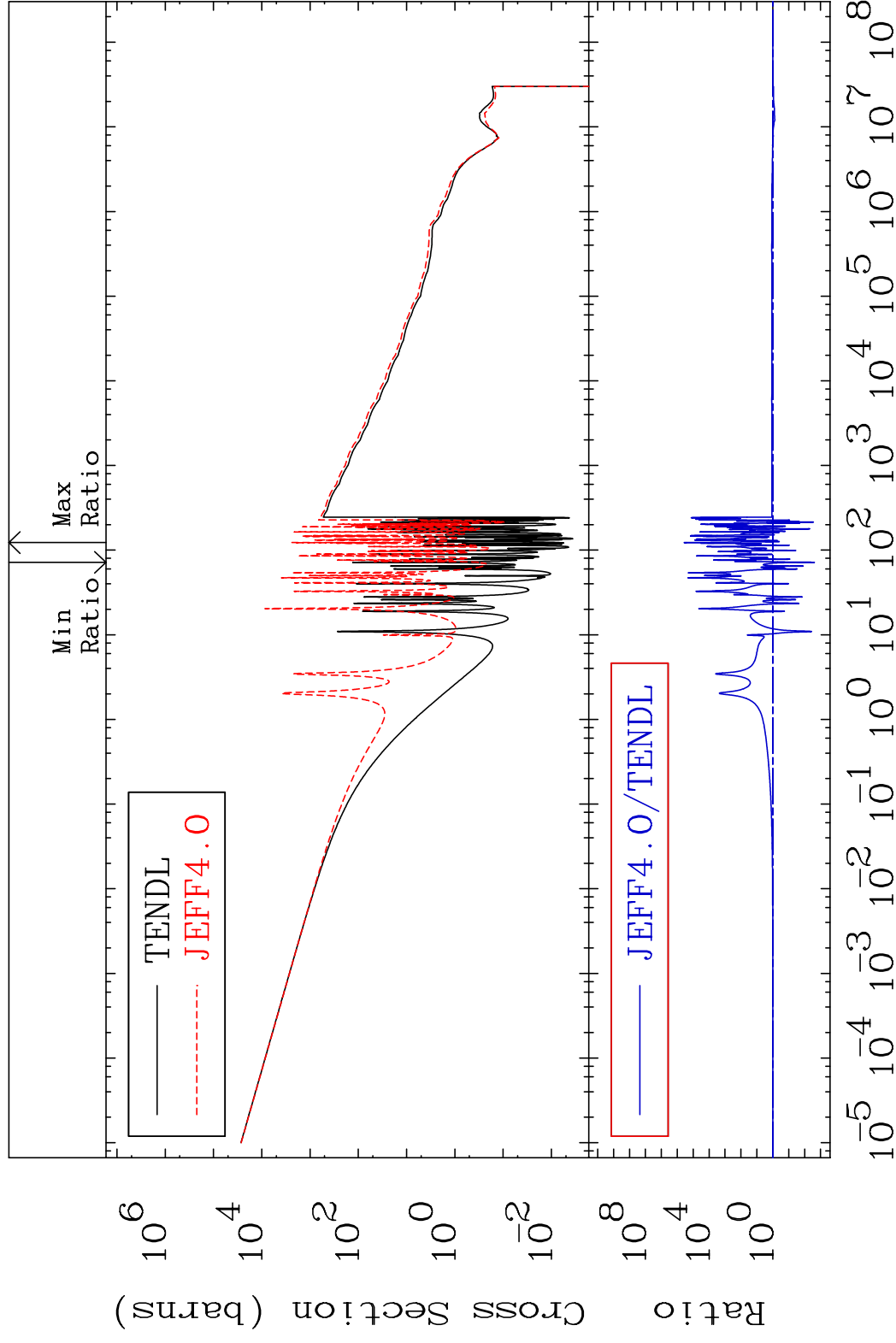


MAT 6143

Kerma capture (mt102)

61-Pm-145

Cross Section -99.75 To 9999. %



23

Incident Energy (eV)

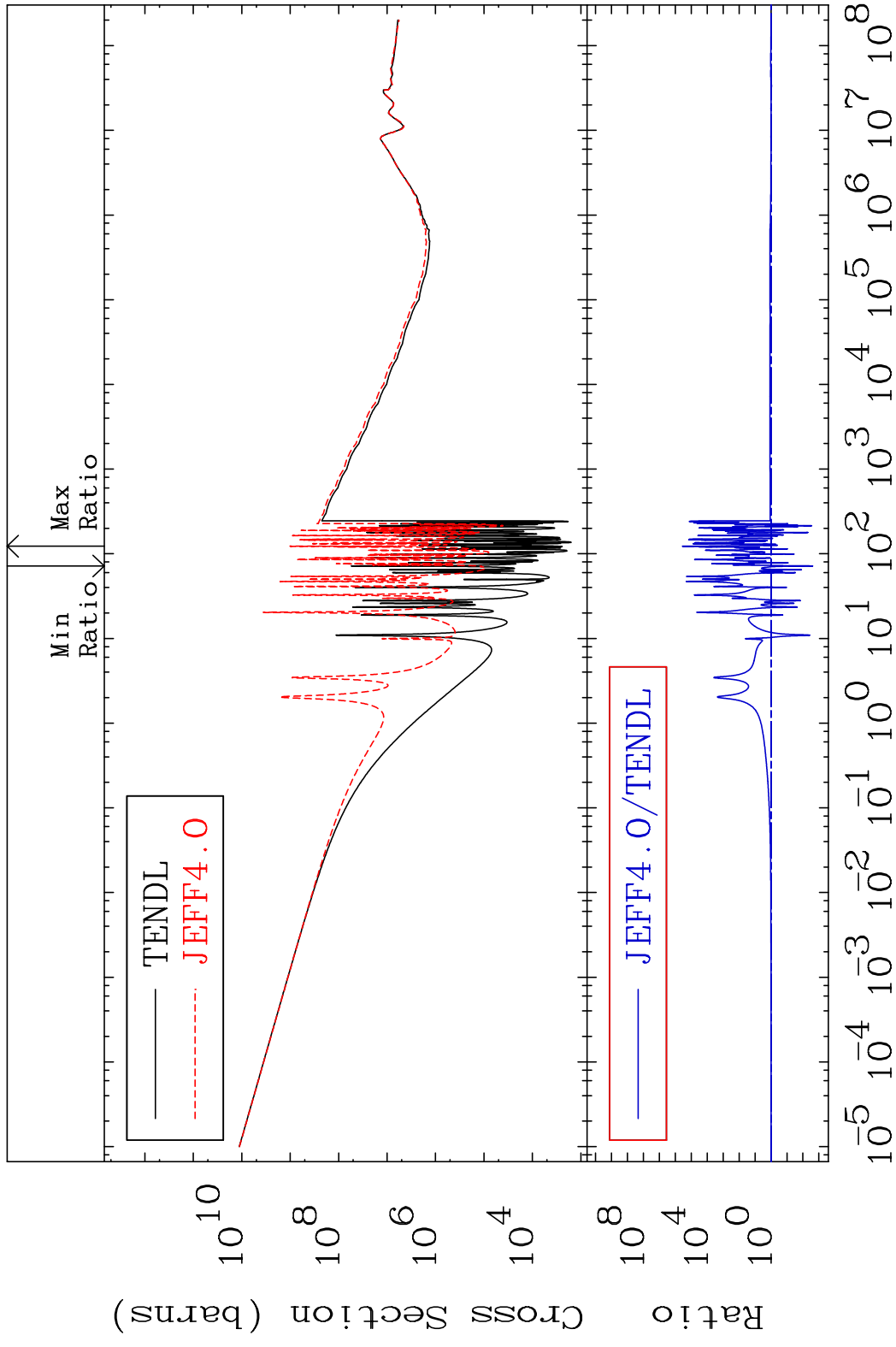
61-Pm-145

MAT 6143

Total photon (eV-barns)

61-Pm-145

Cross Section

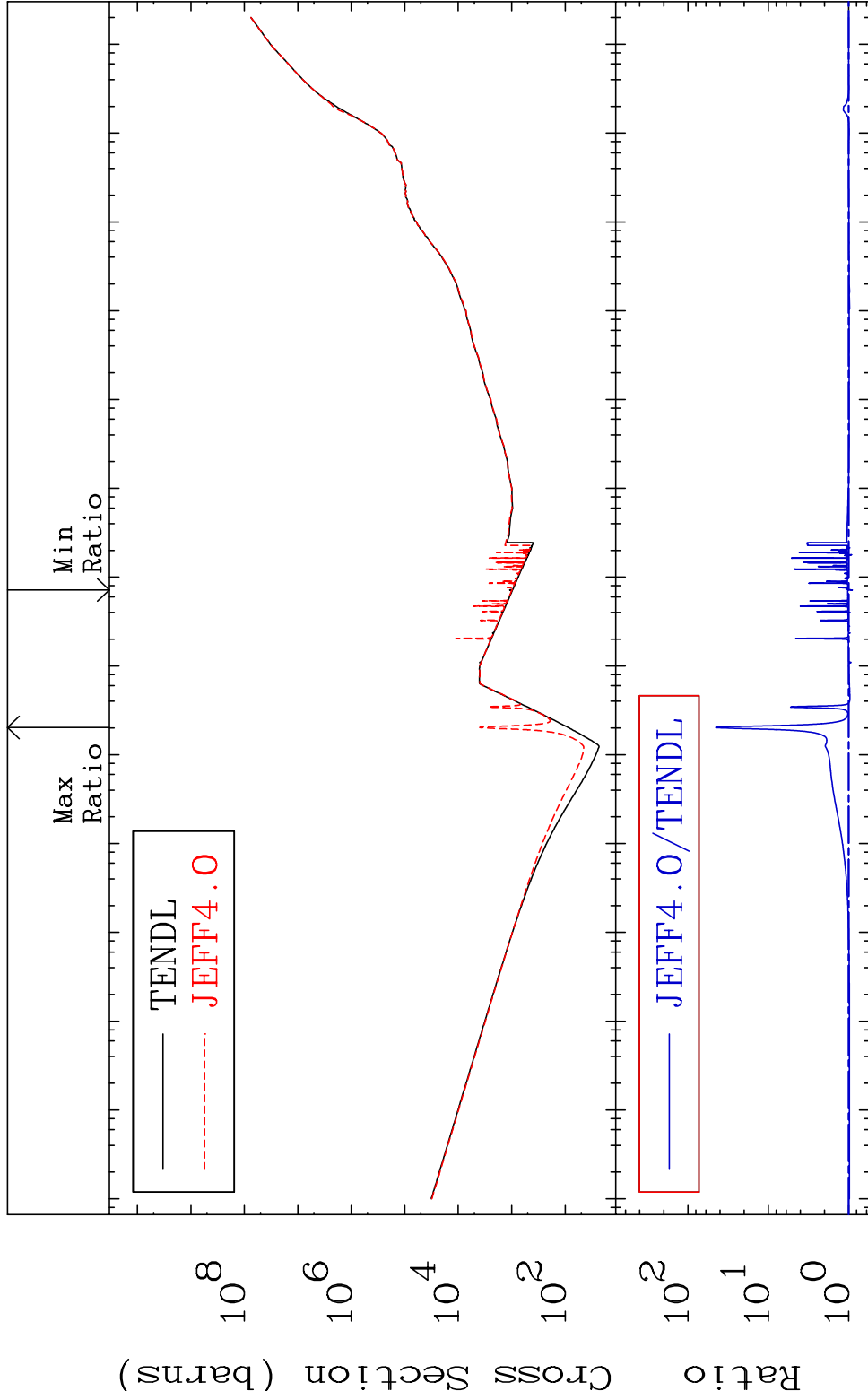


42

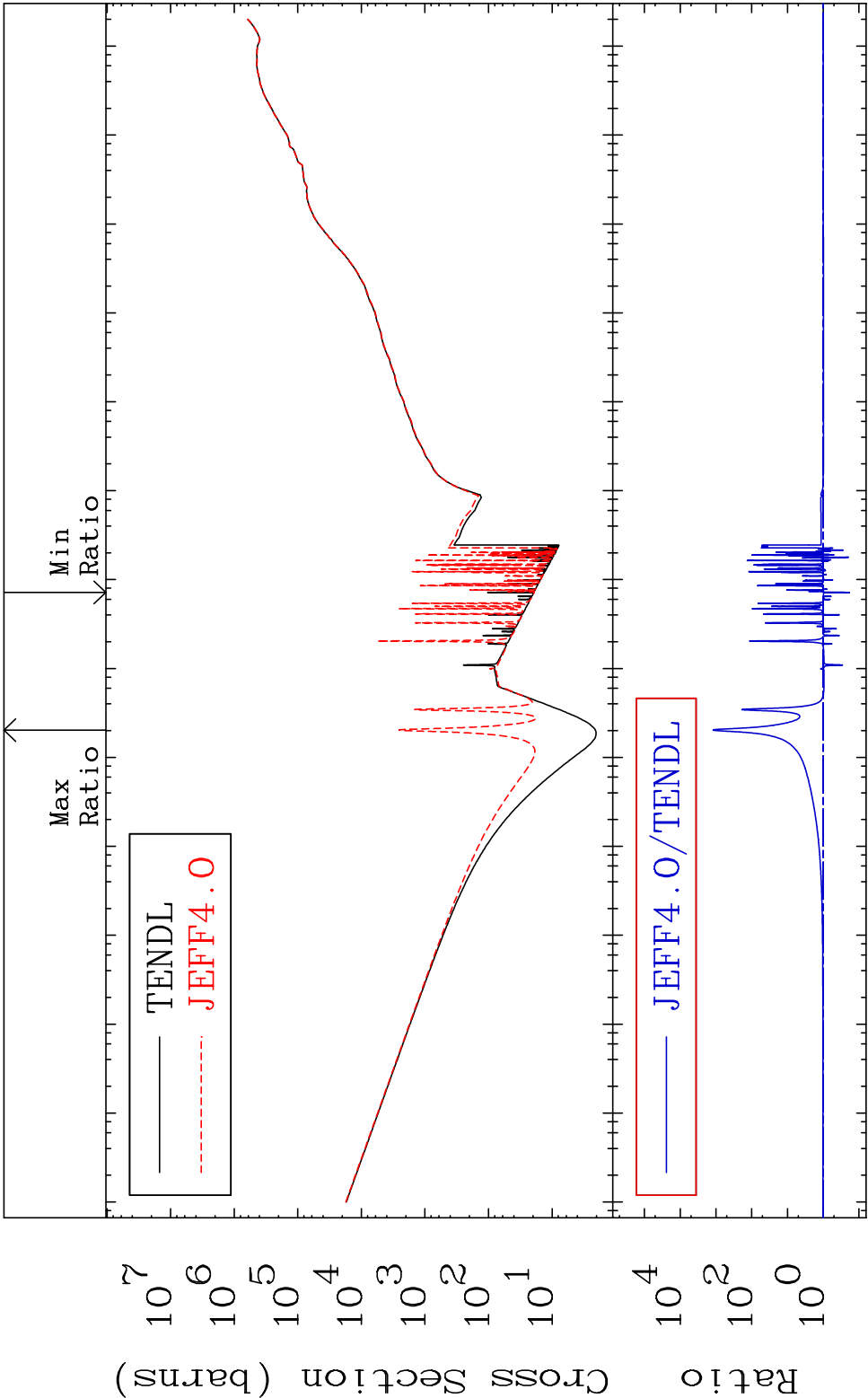
Incident Energy (eV)

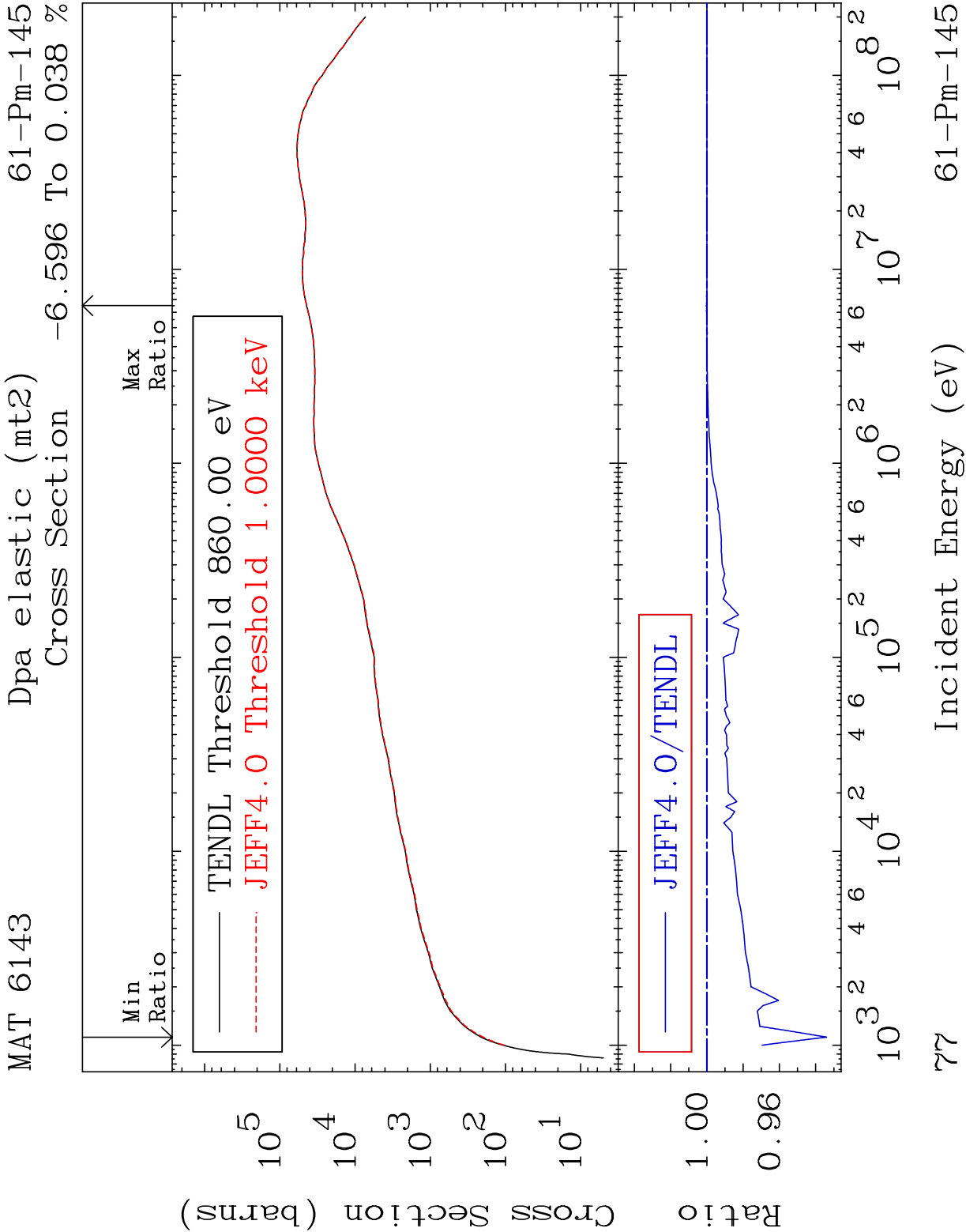
61-Pm-145

MAT 6143 Total kinematic kerma (high limit) 61-Pm-145
Cross Section -9.538 To 4434. %

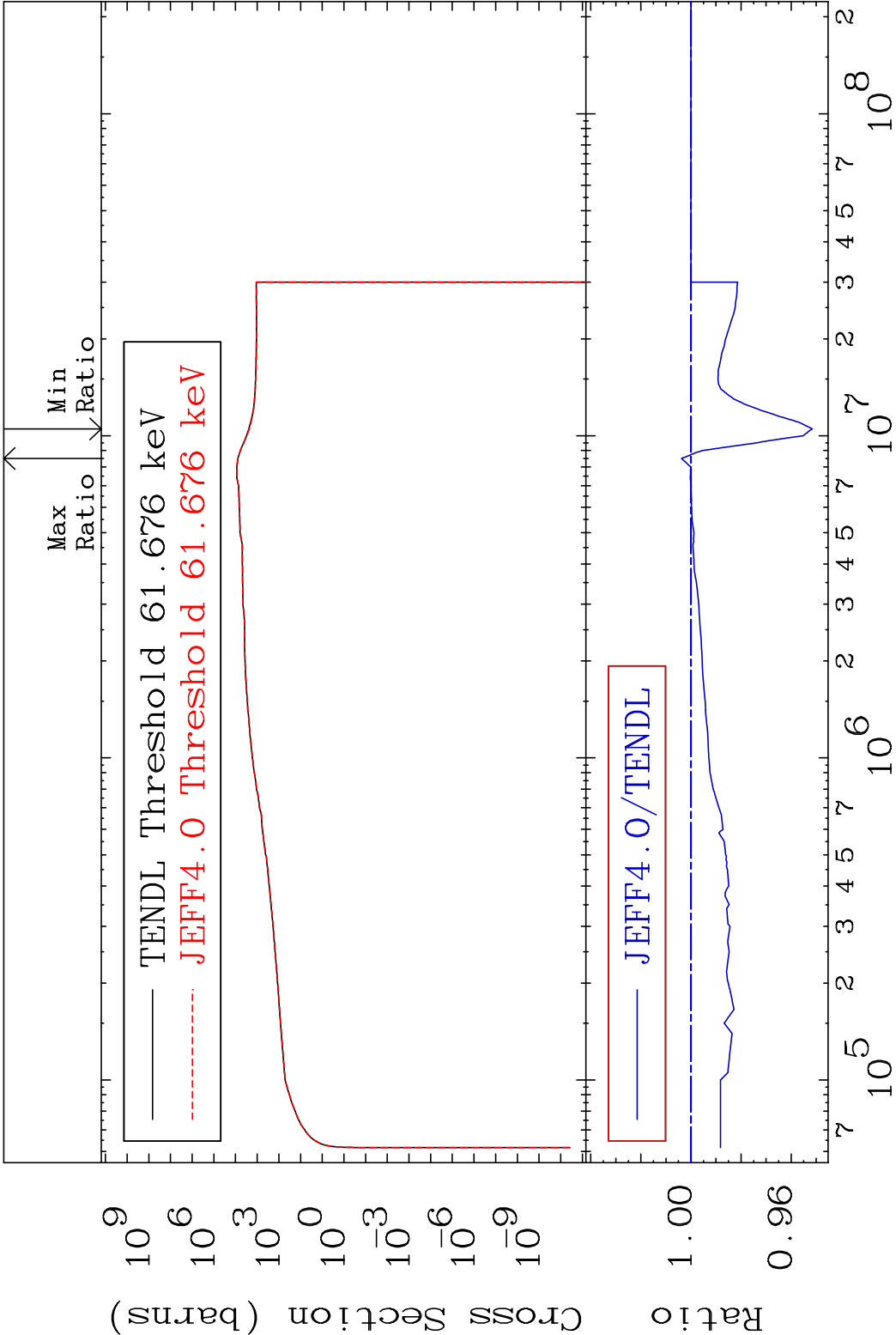


MAT 6143 Dpa total (eV-barns) 61-Pm-145
 Cross Section -81.57 To 9999. %





MAT 6143 Dpa inelastic (mt51-91) 61-Pm-145
 Cross Section -4.843 To 0.376 %

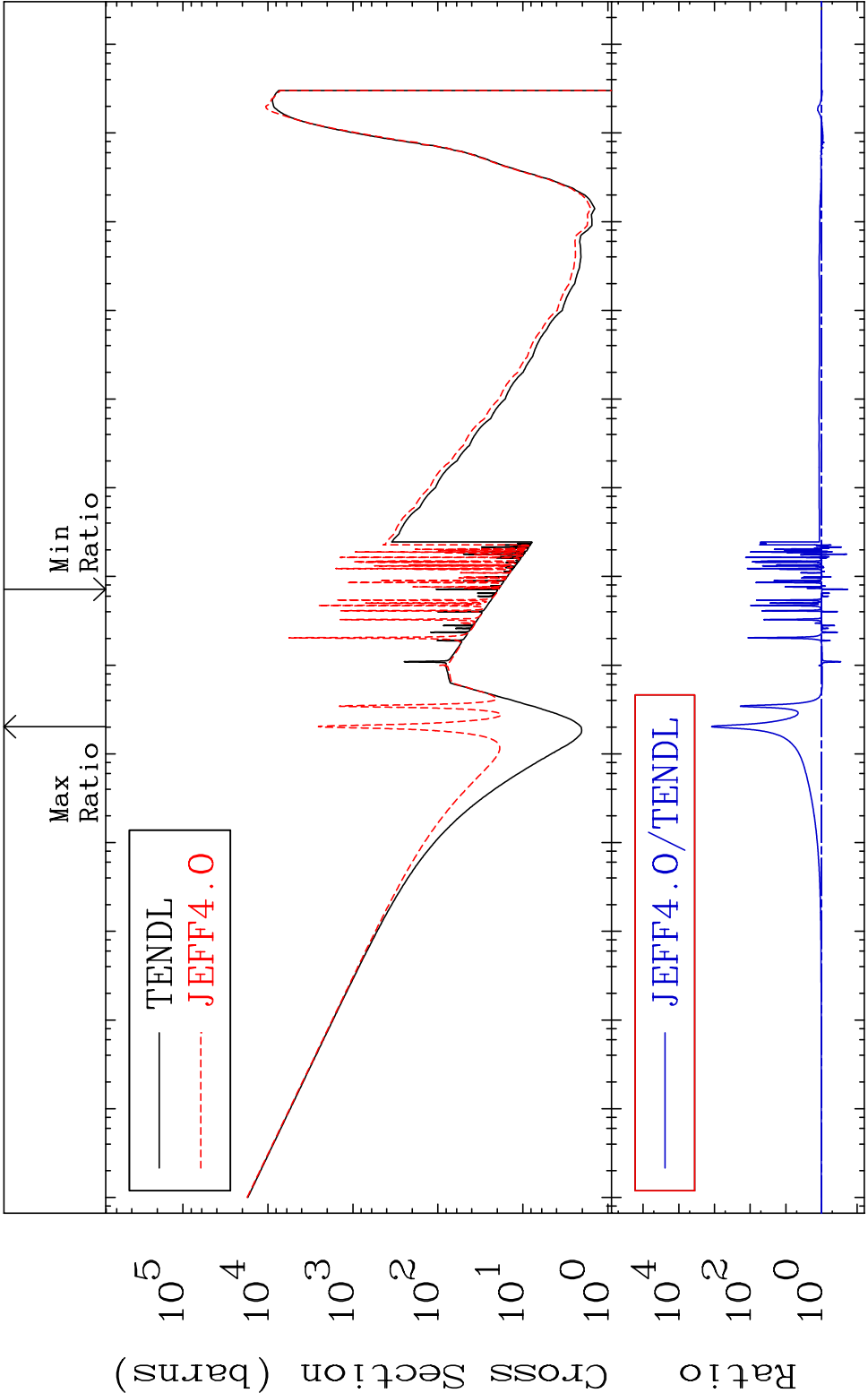


78

Incident Energy (eV)

61-Pm-145

MAT 6143 Dpa disappearance (mt102 -120) 61-Pm-145
Cross Section -81.57 To 9999. %



10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

79 Incident Energy (eV) 61-Pm-145

