

Program Complot
(Version 2021-1)

by

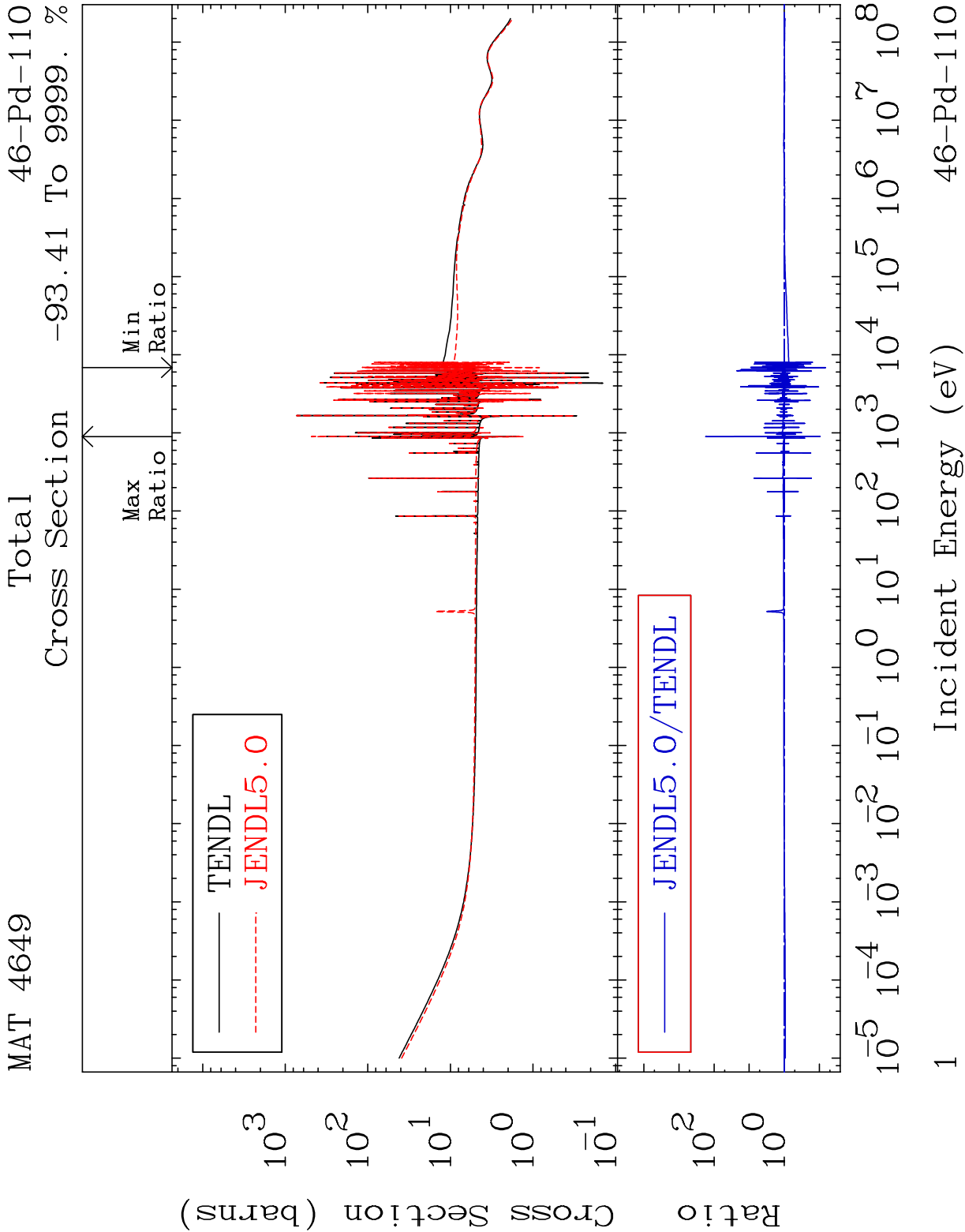
Dermott E. Cullen
(Present Contact Information)

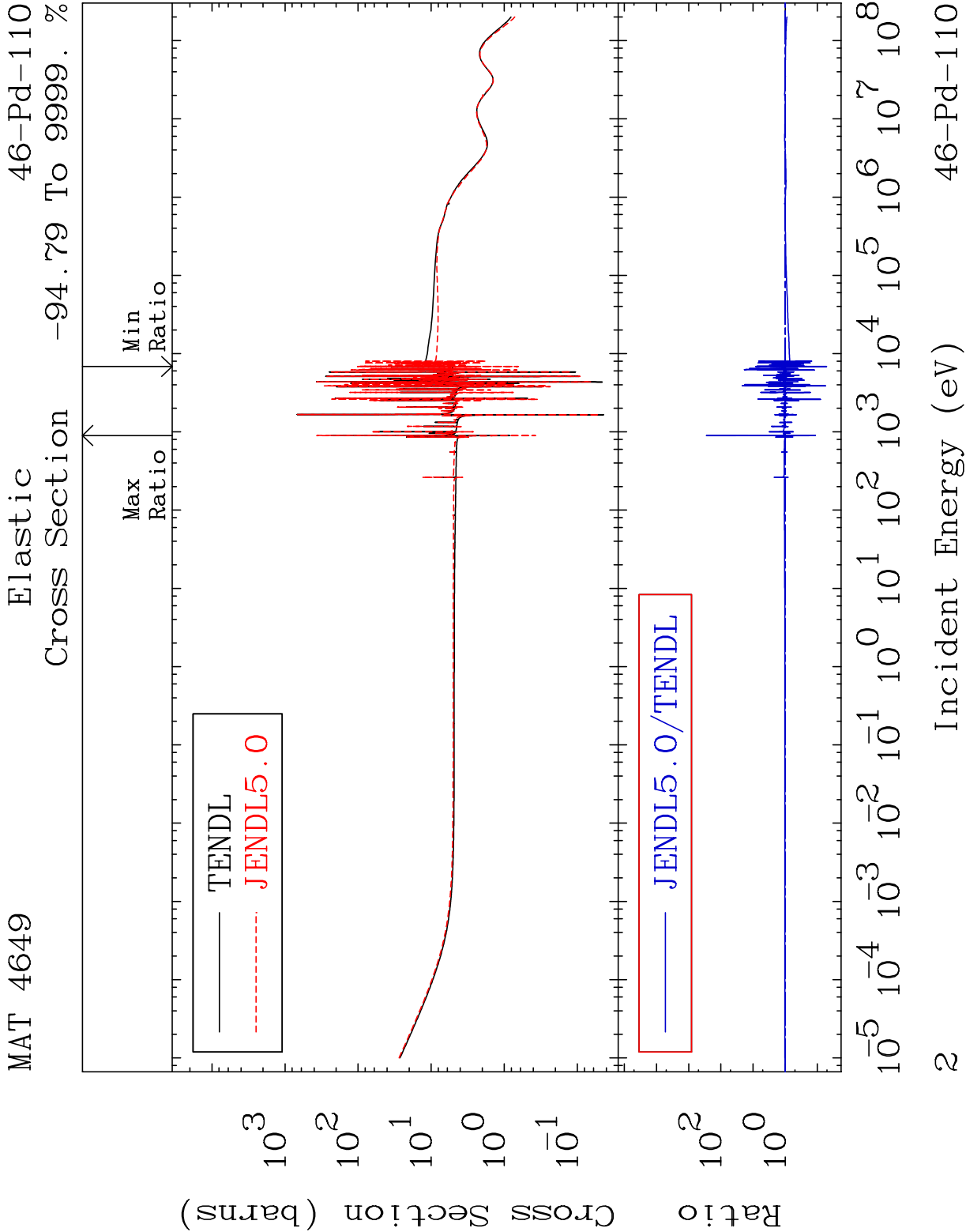
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
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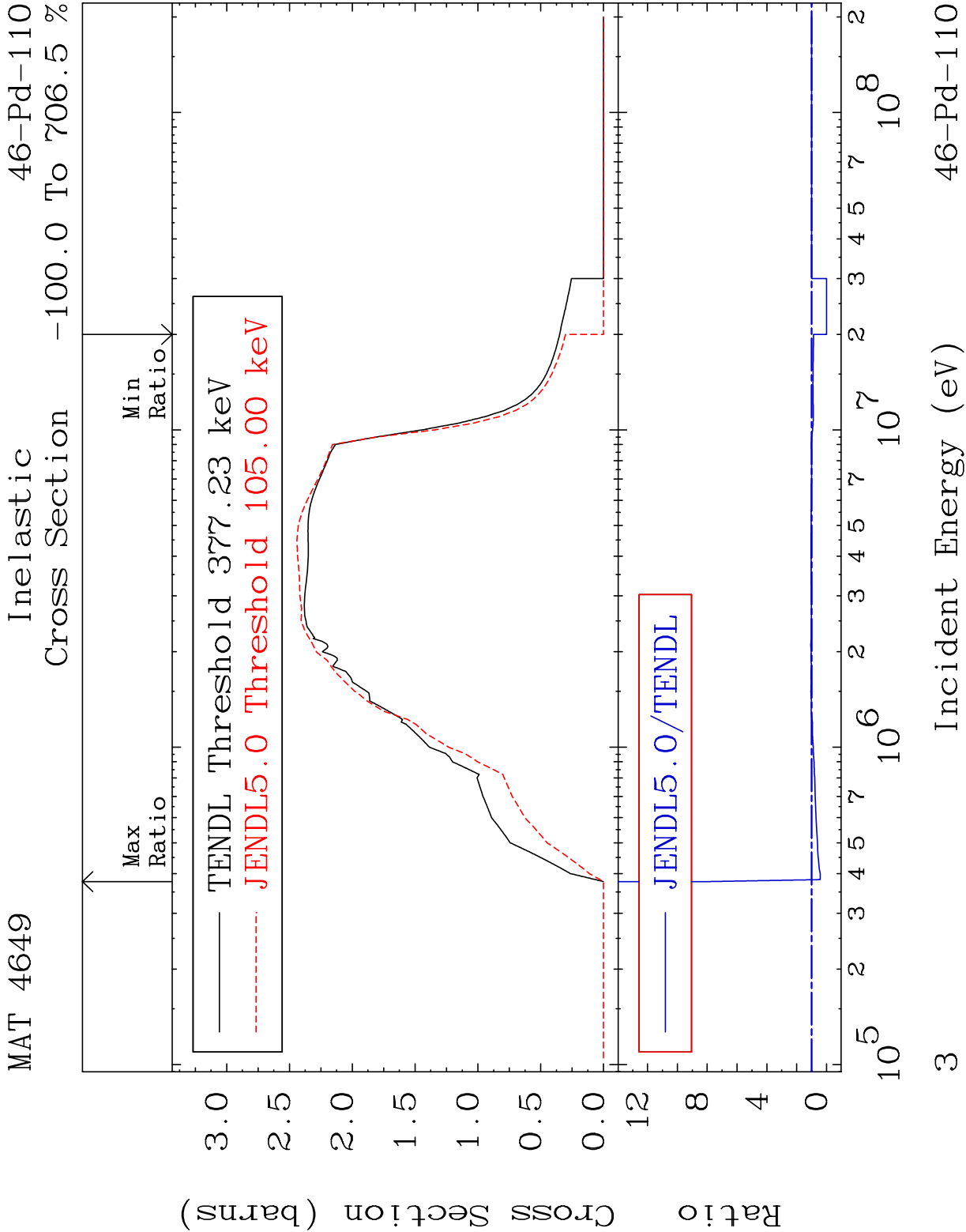
Tele: 925-443-1911

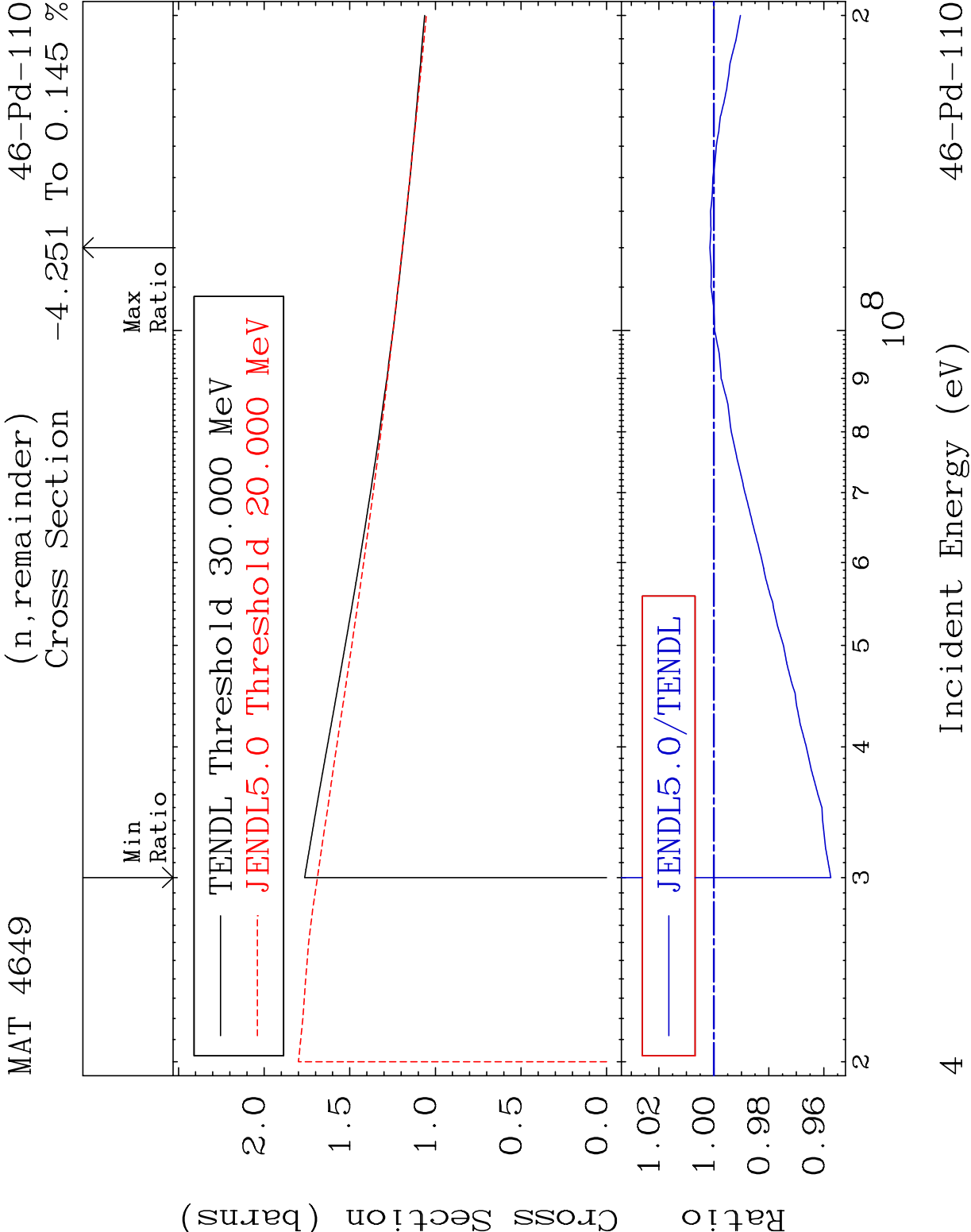
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

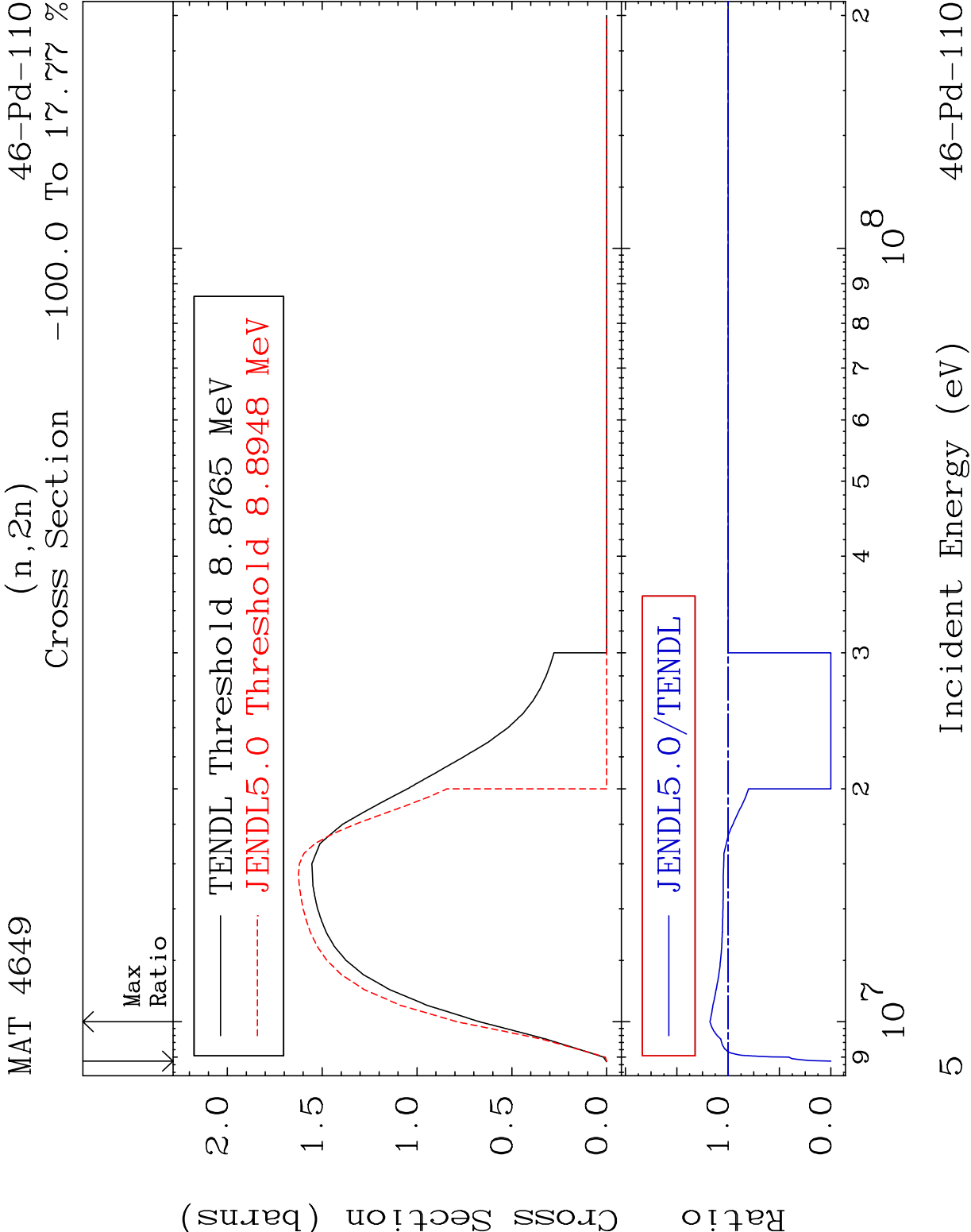
Press Mouse Button to Start

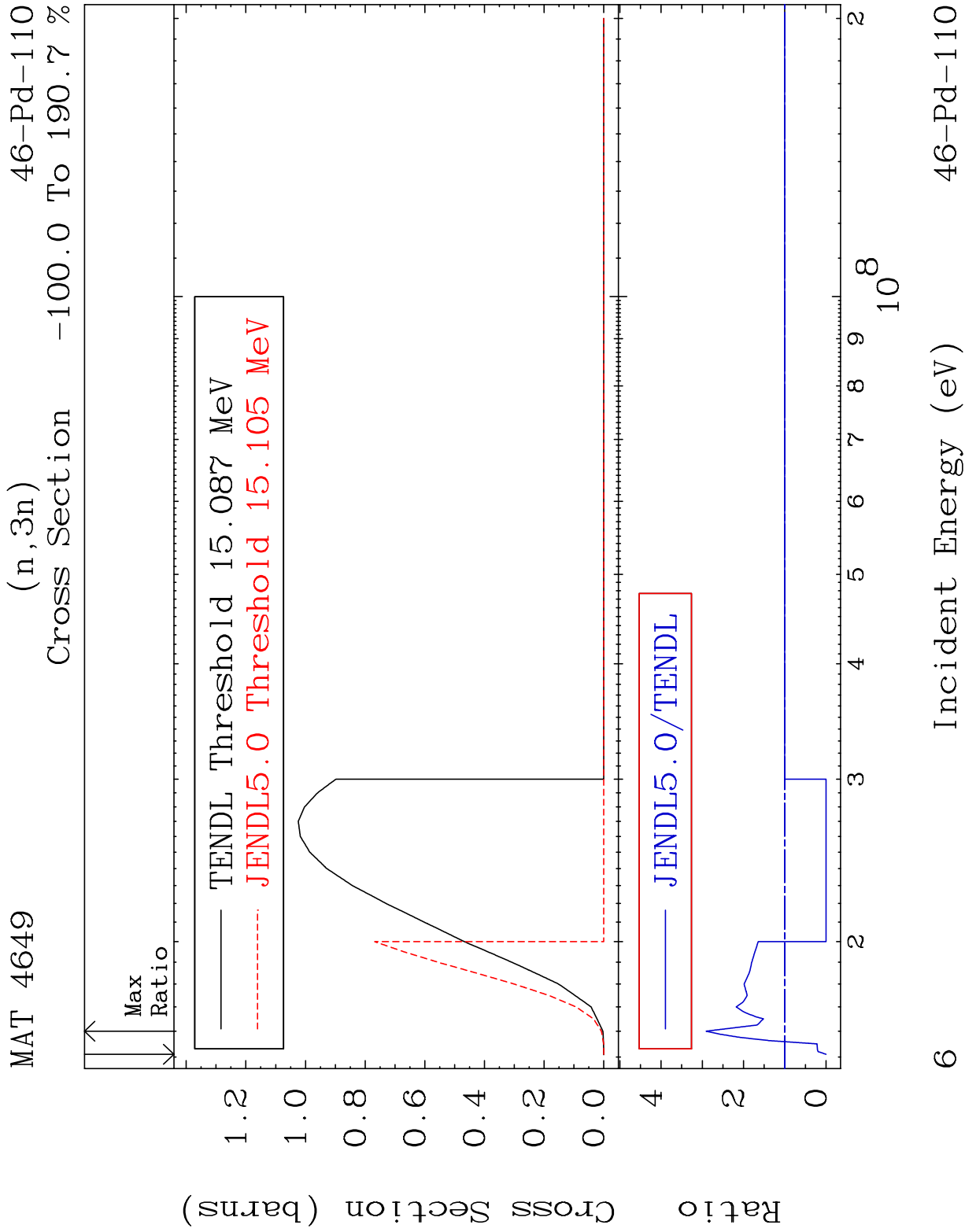


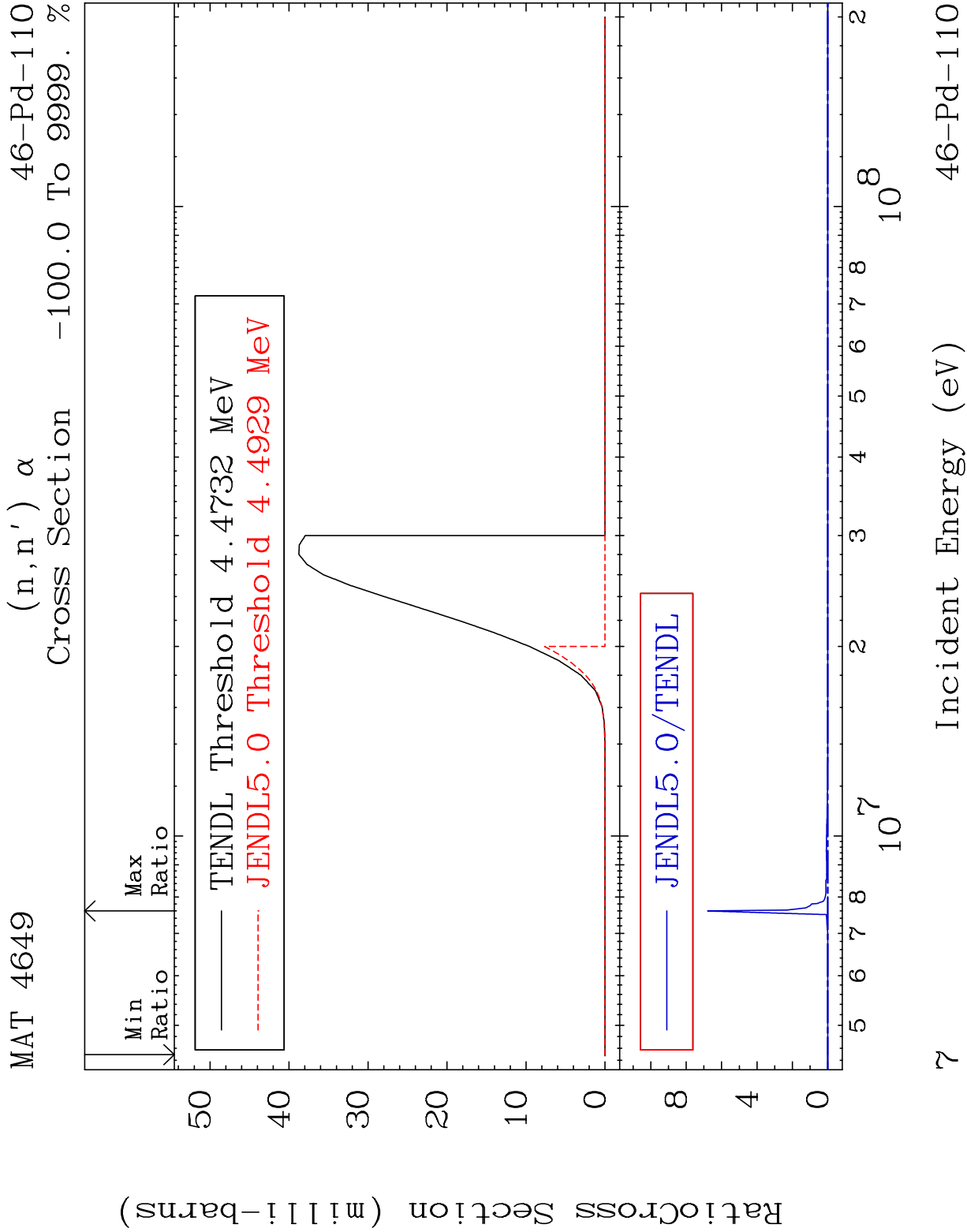


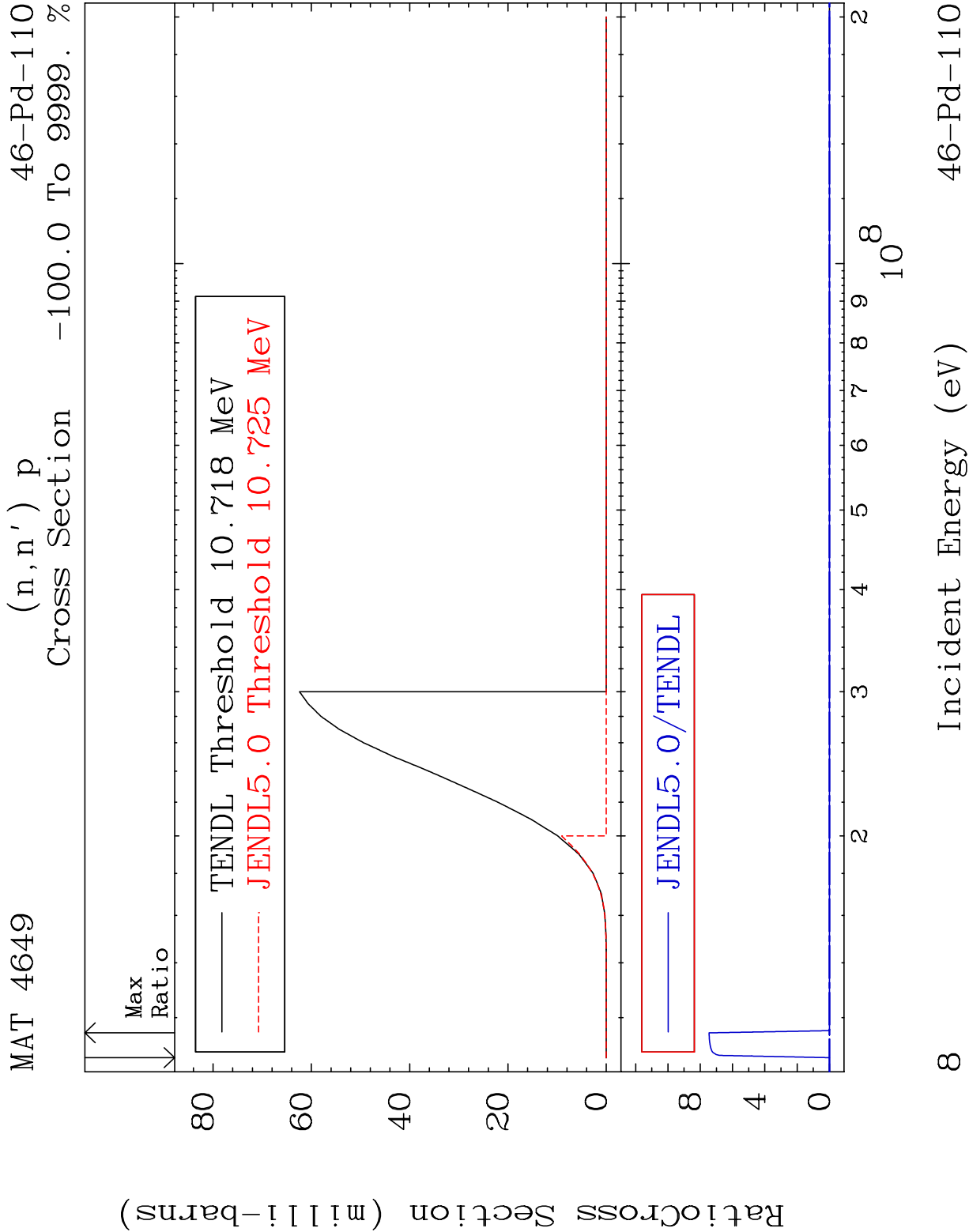




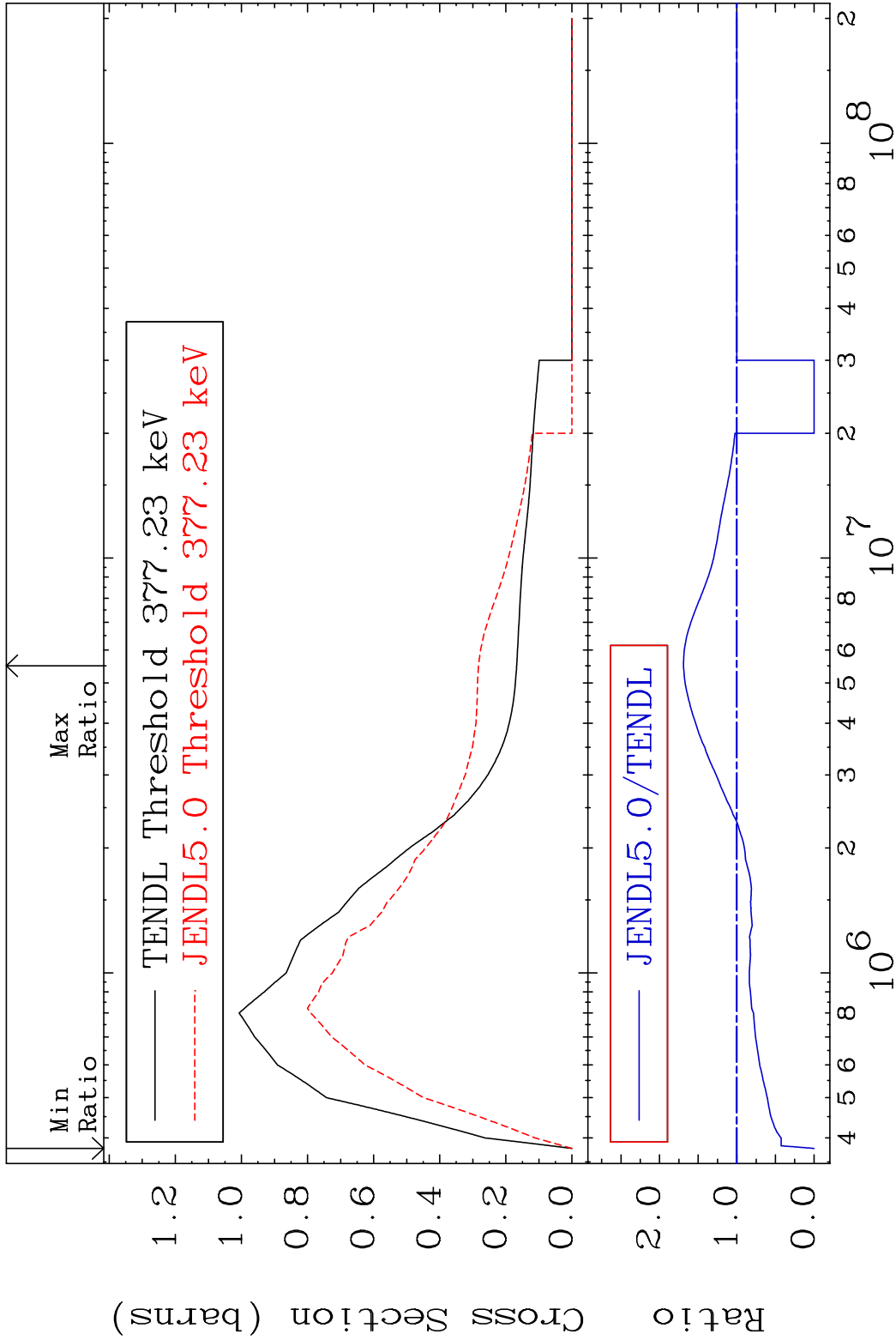


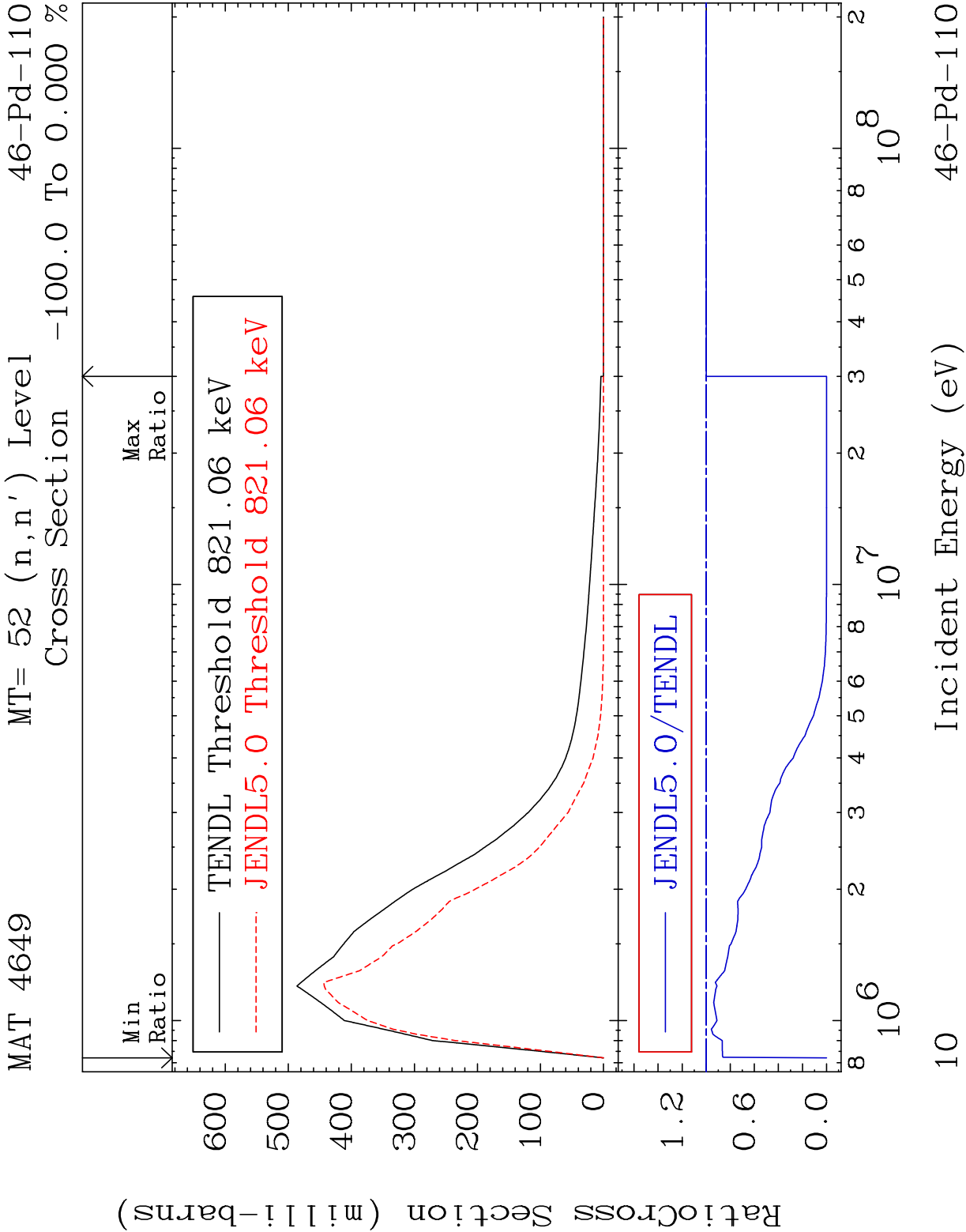


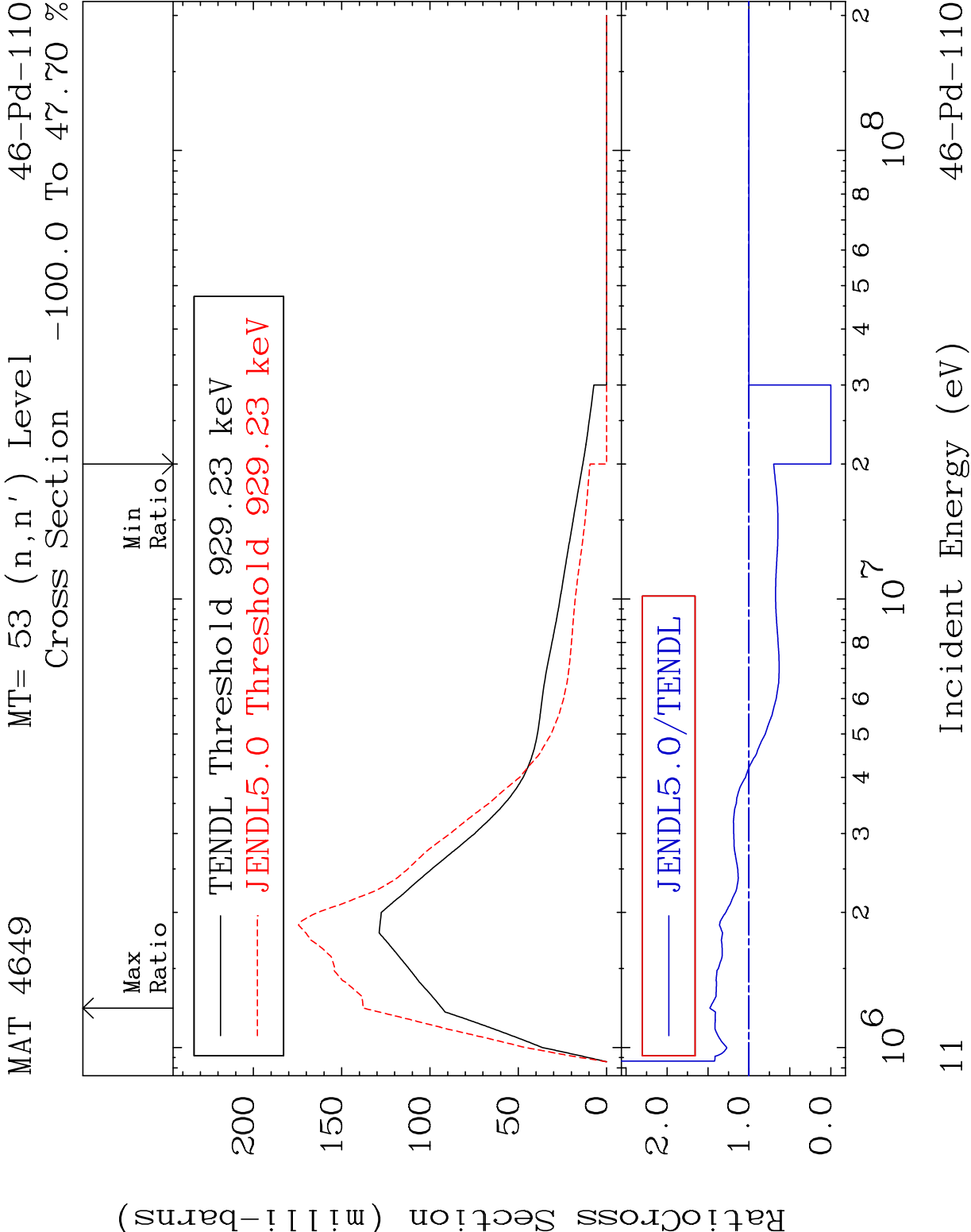


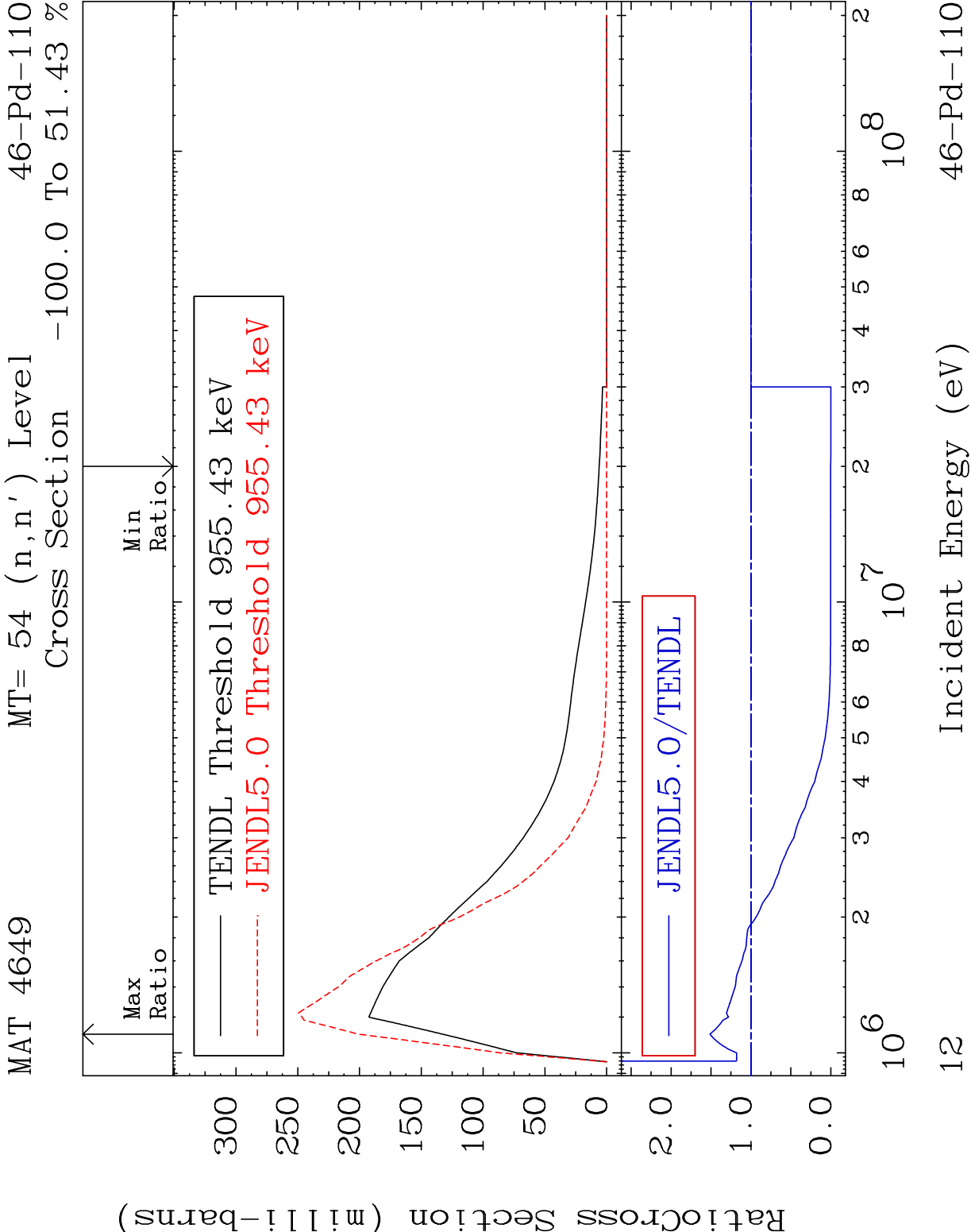


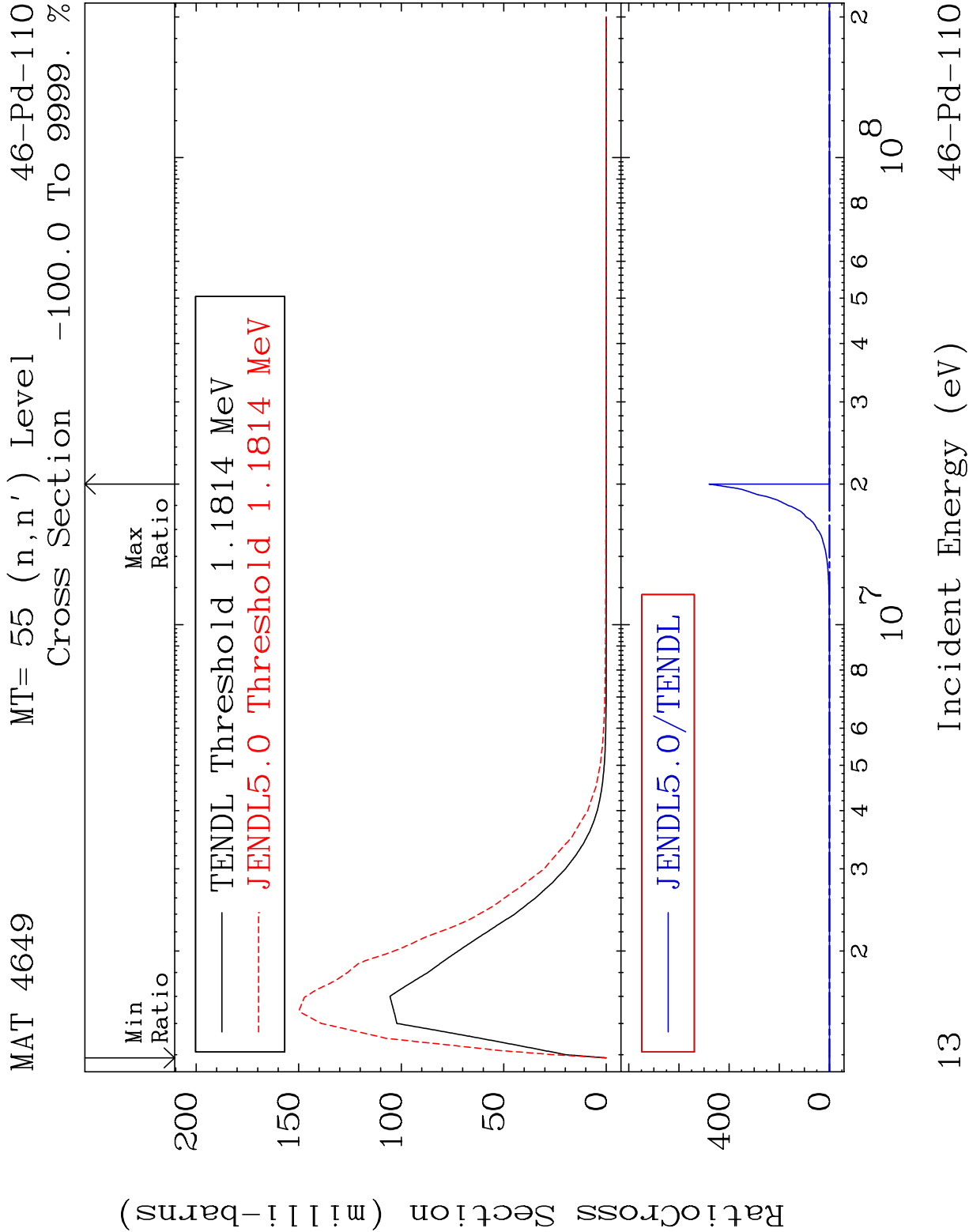
MAT 4649 MT= 51 (n,n') Level 46-Pd-110
Cross Section -100.0 To 69.07 %

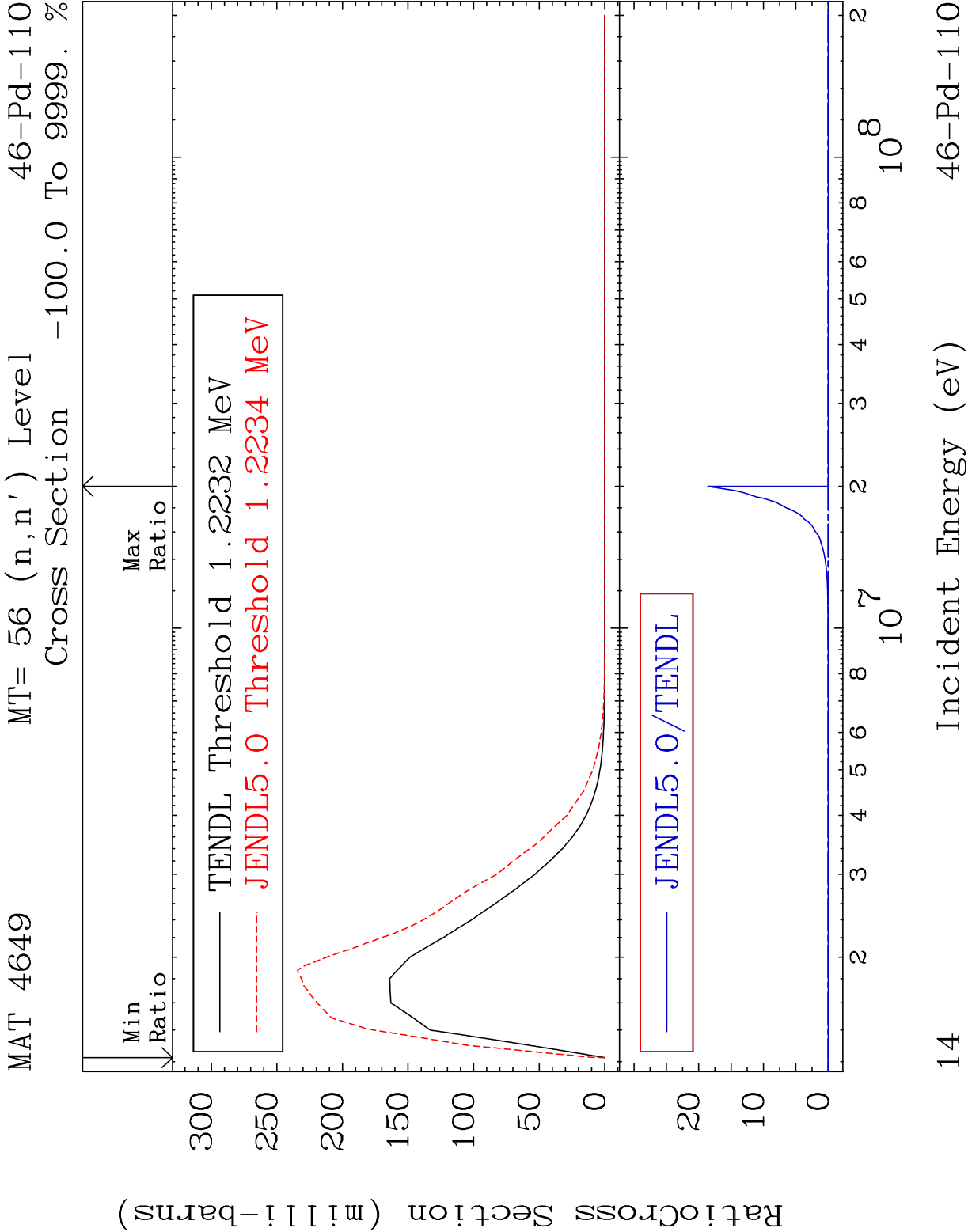


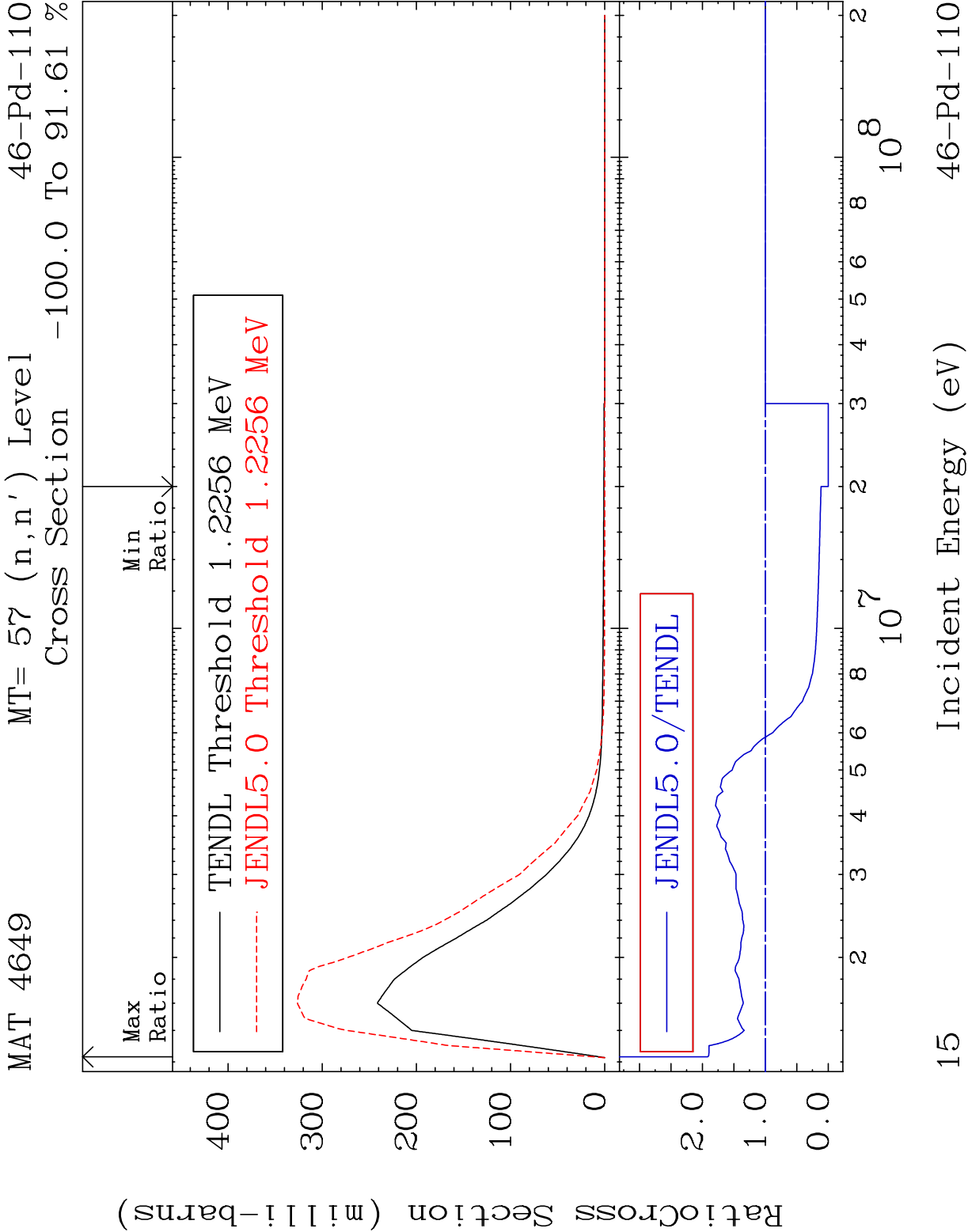


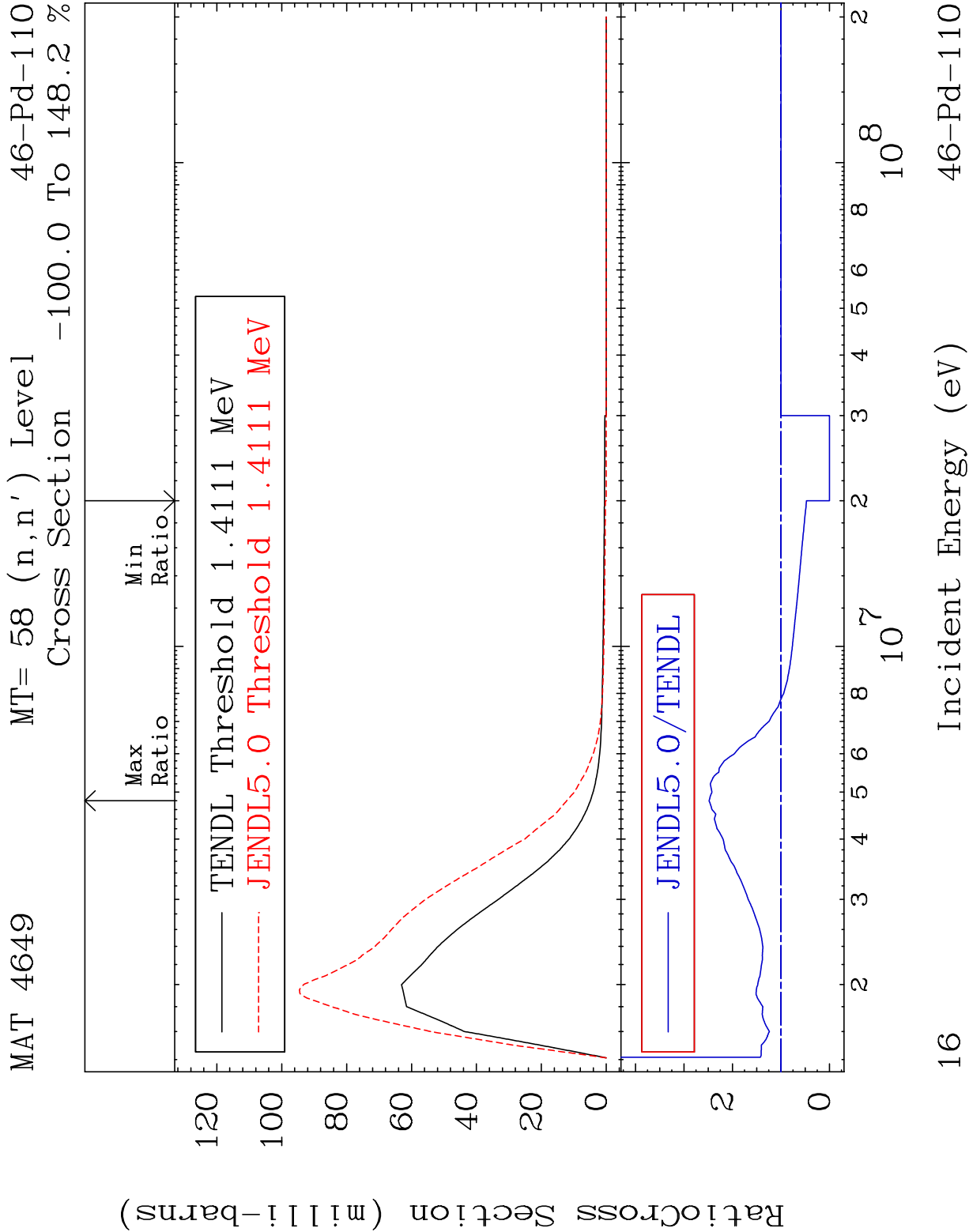




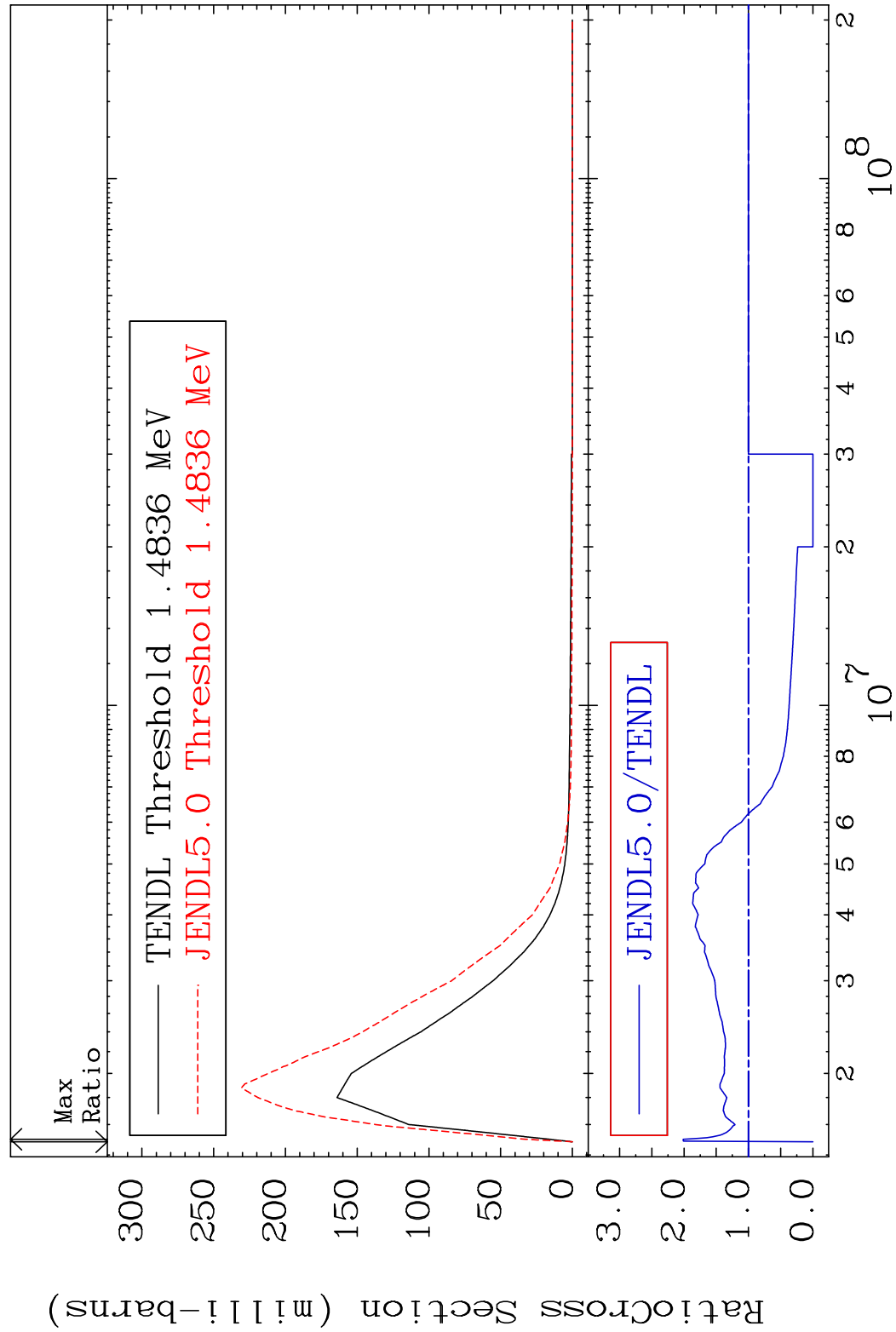


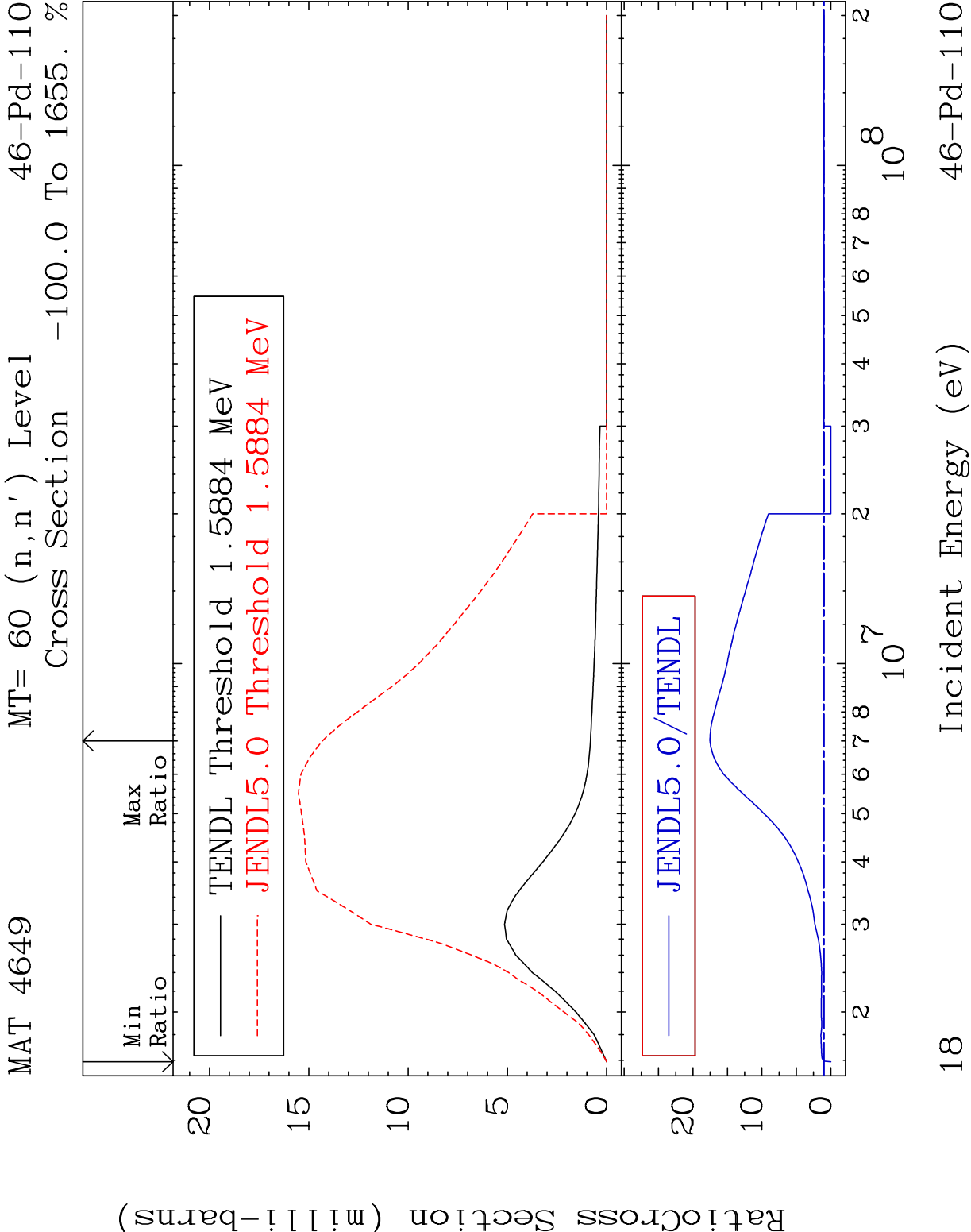


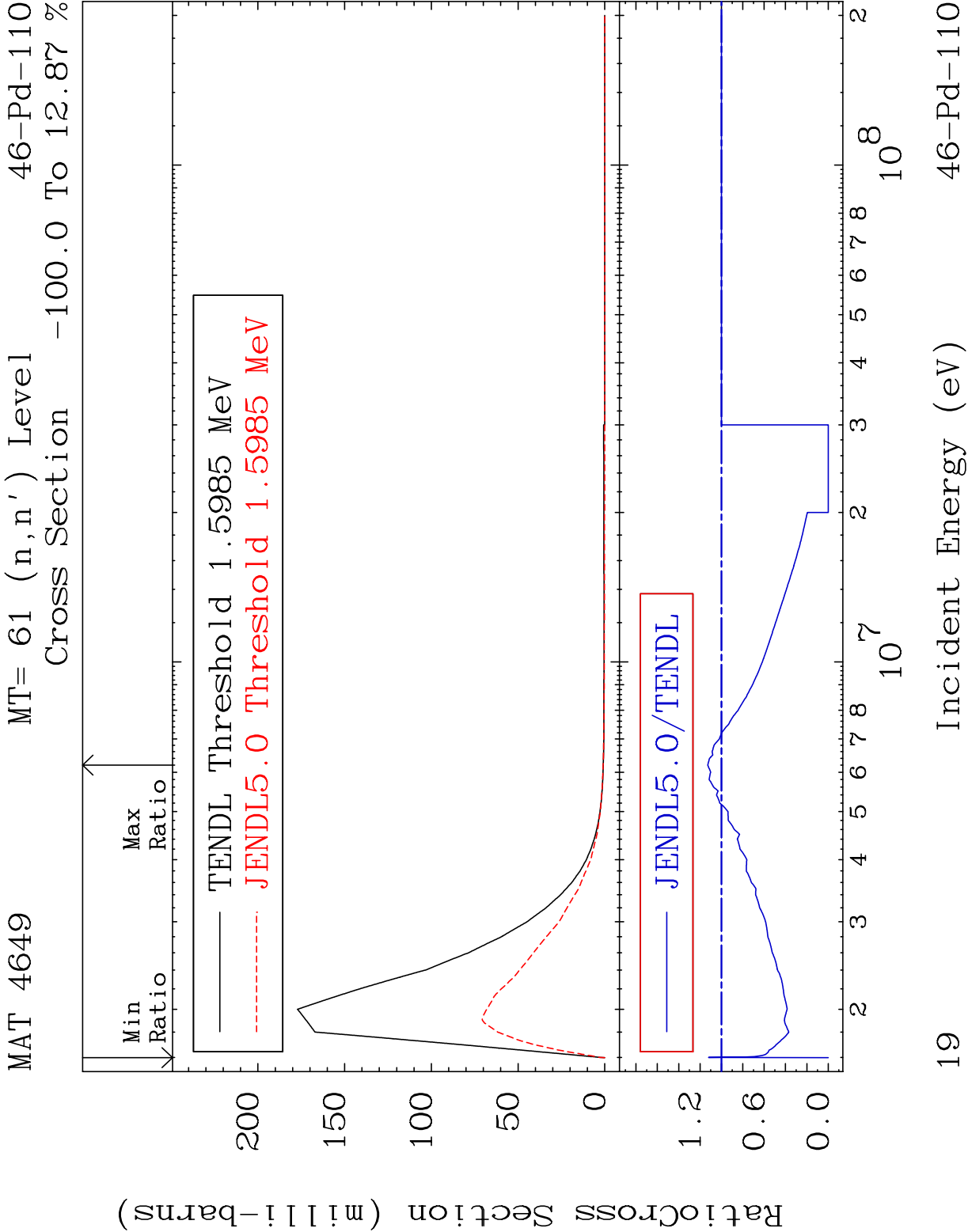


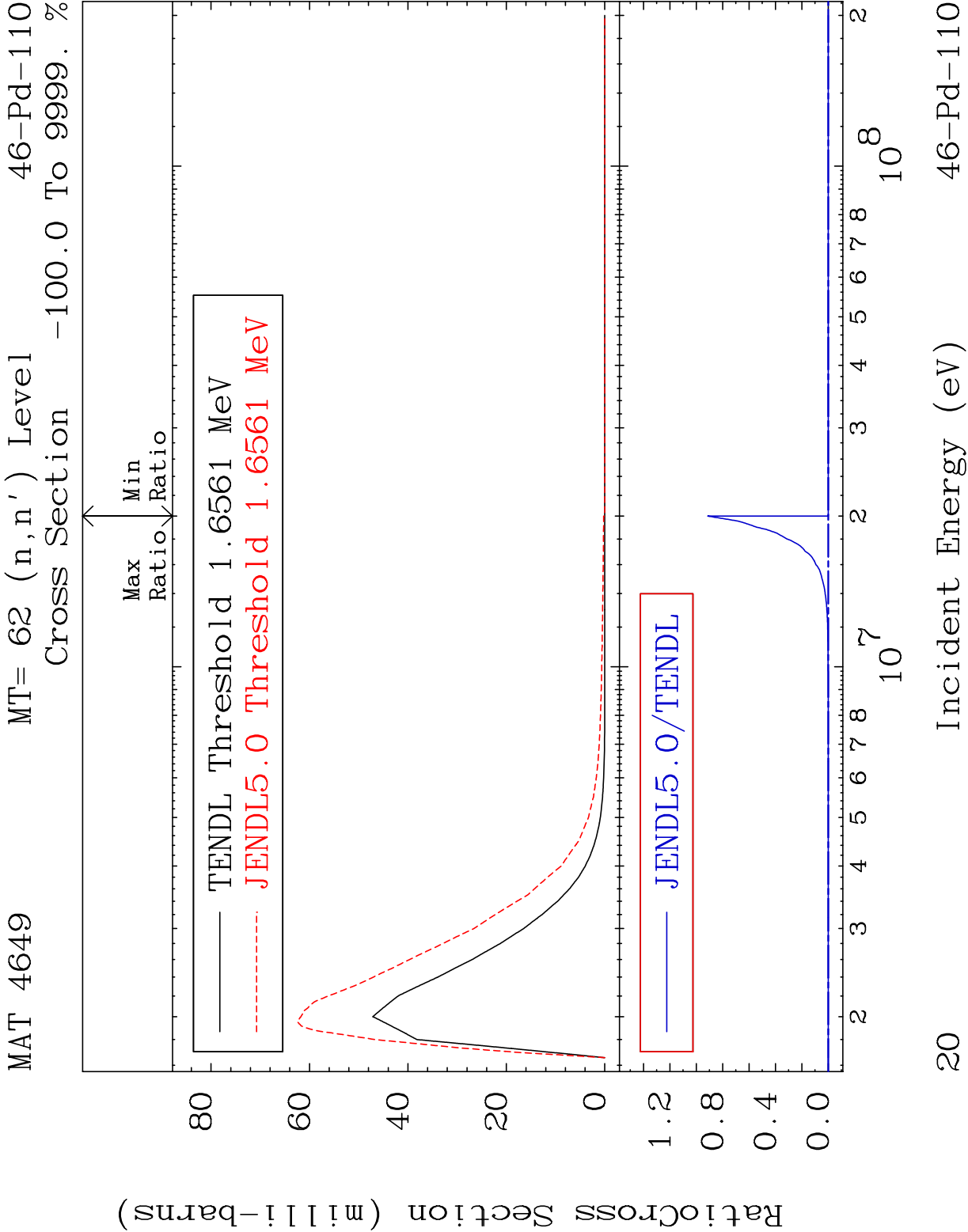


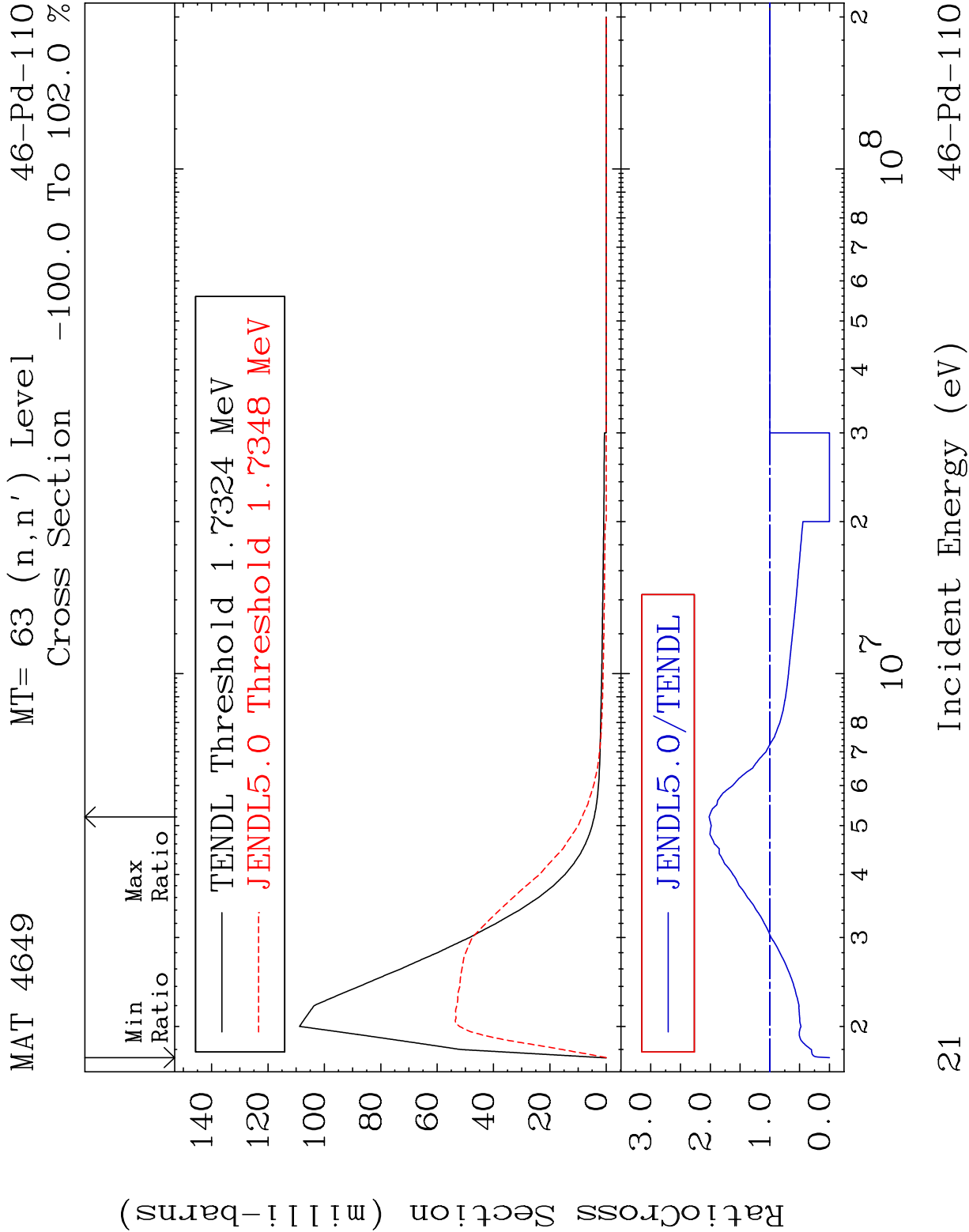
MAT 4649 MT= 59 (n,n') Level 46-Pd-110
 Cross Section -100.0 To 101.4 %



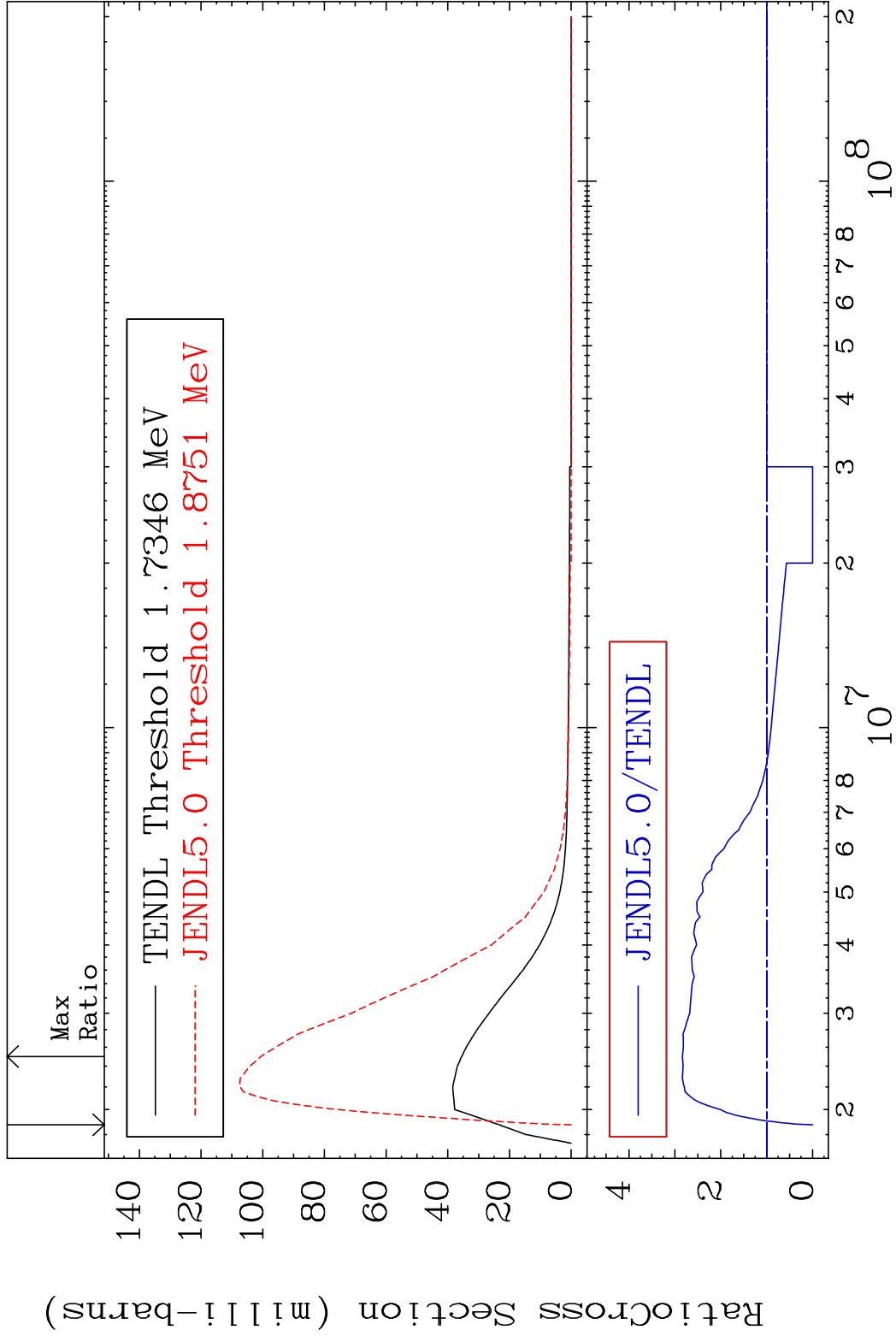


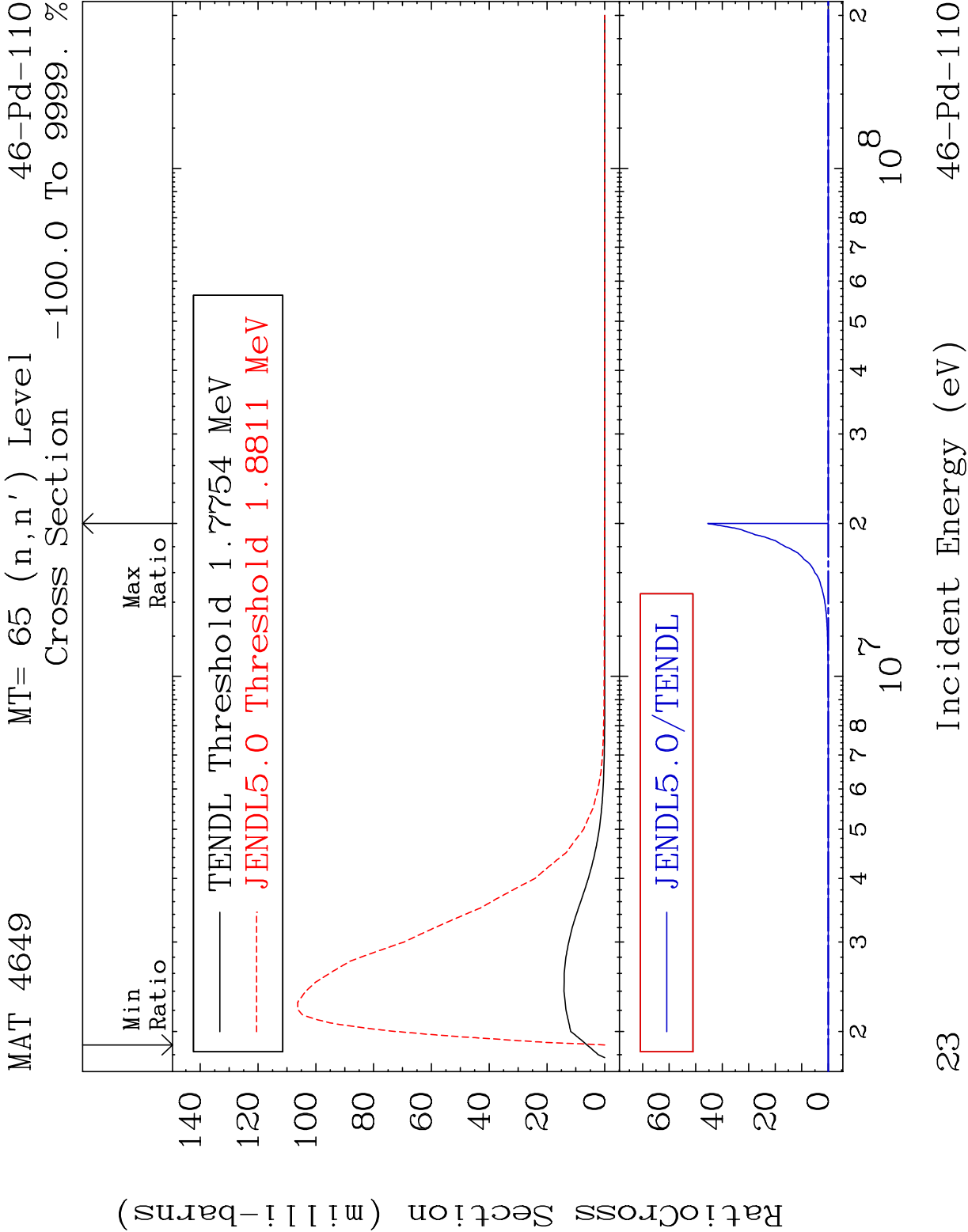




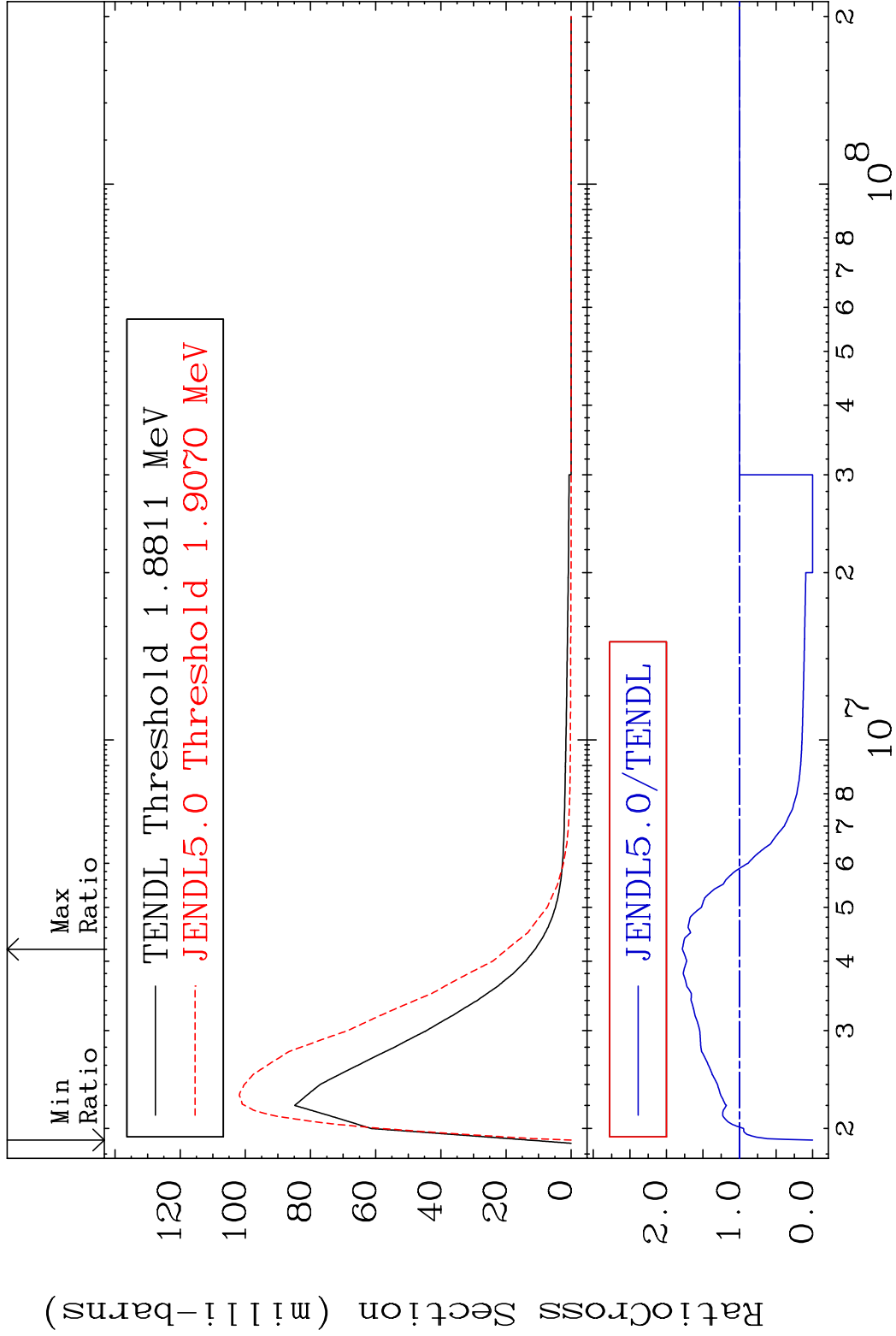


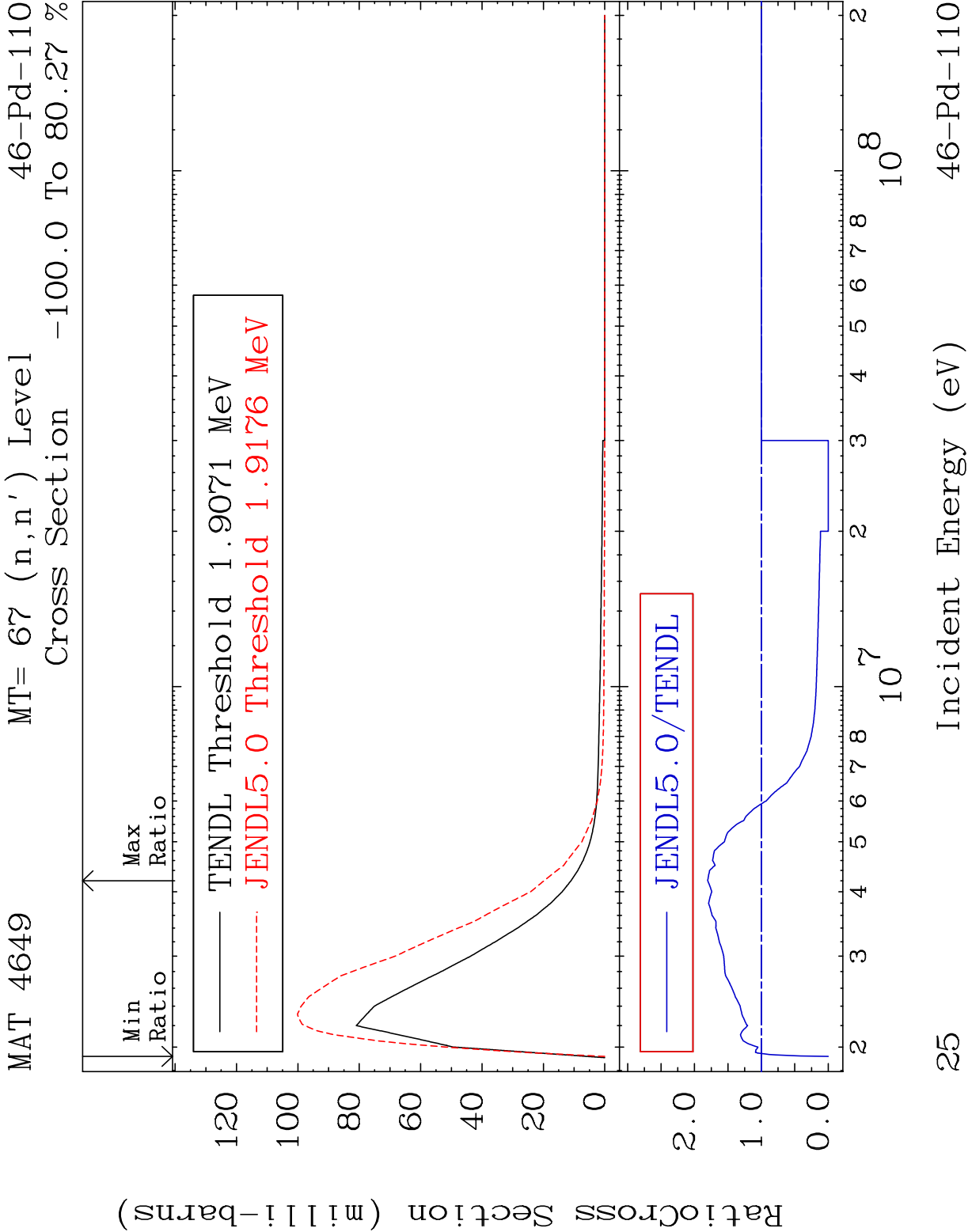
MAT 4649 MT= 64 (n,n') Level 46-Pd-110
Cross Section -100.0 To 183.7 %

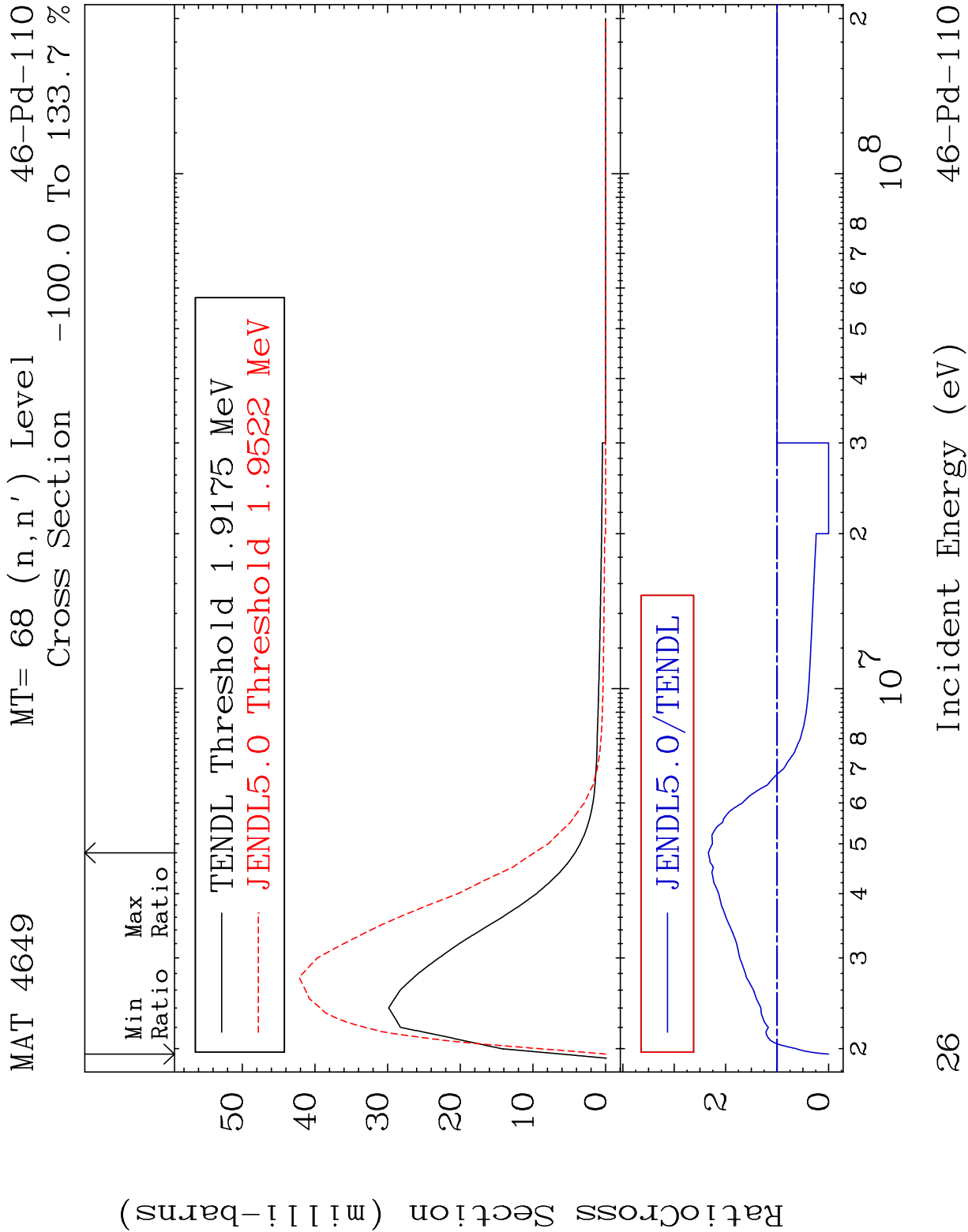


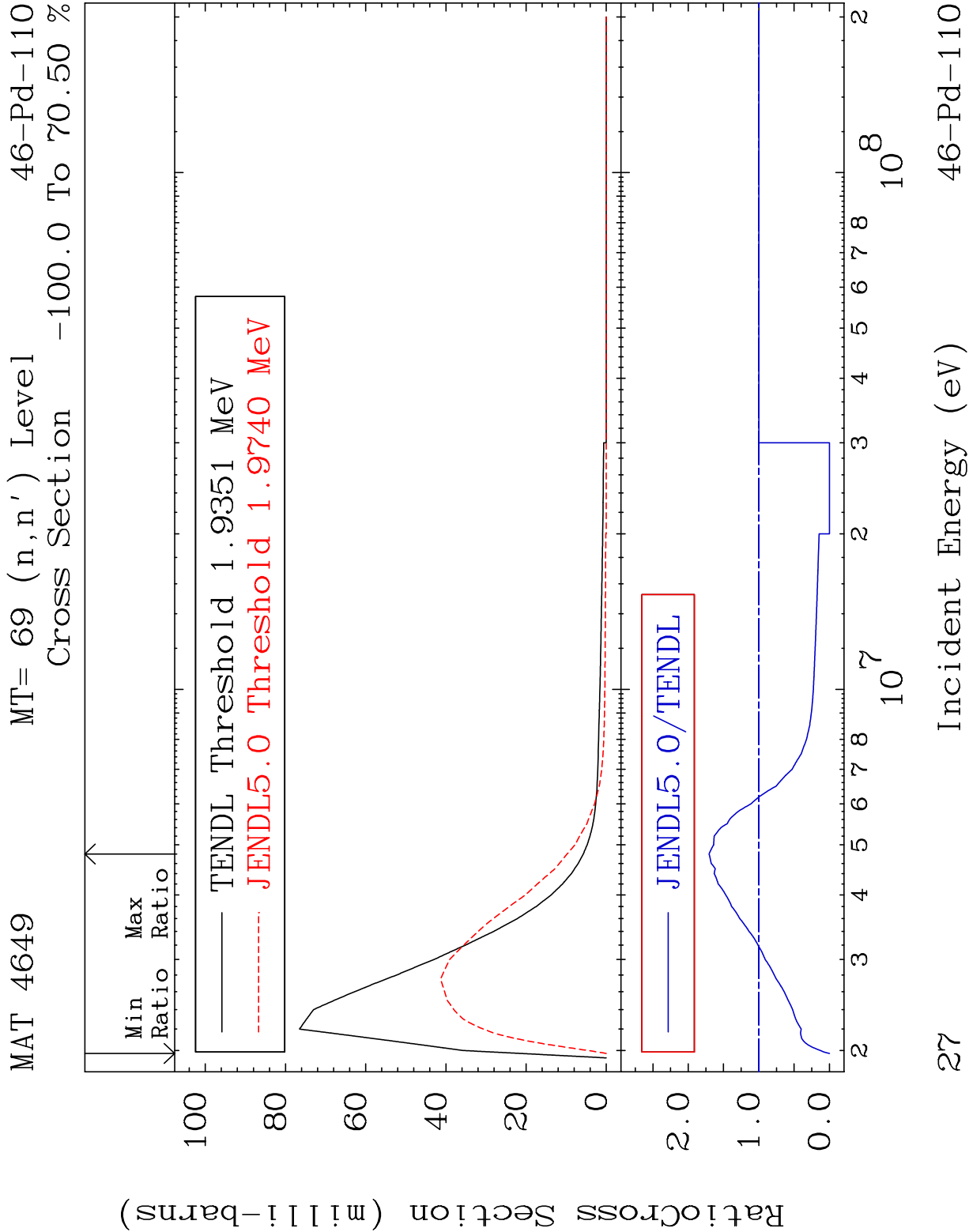


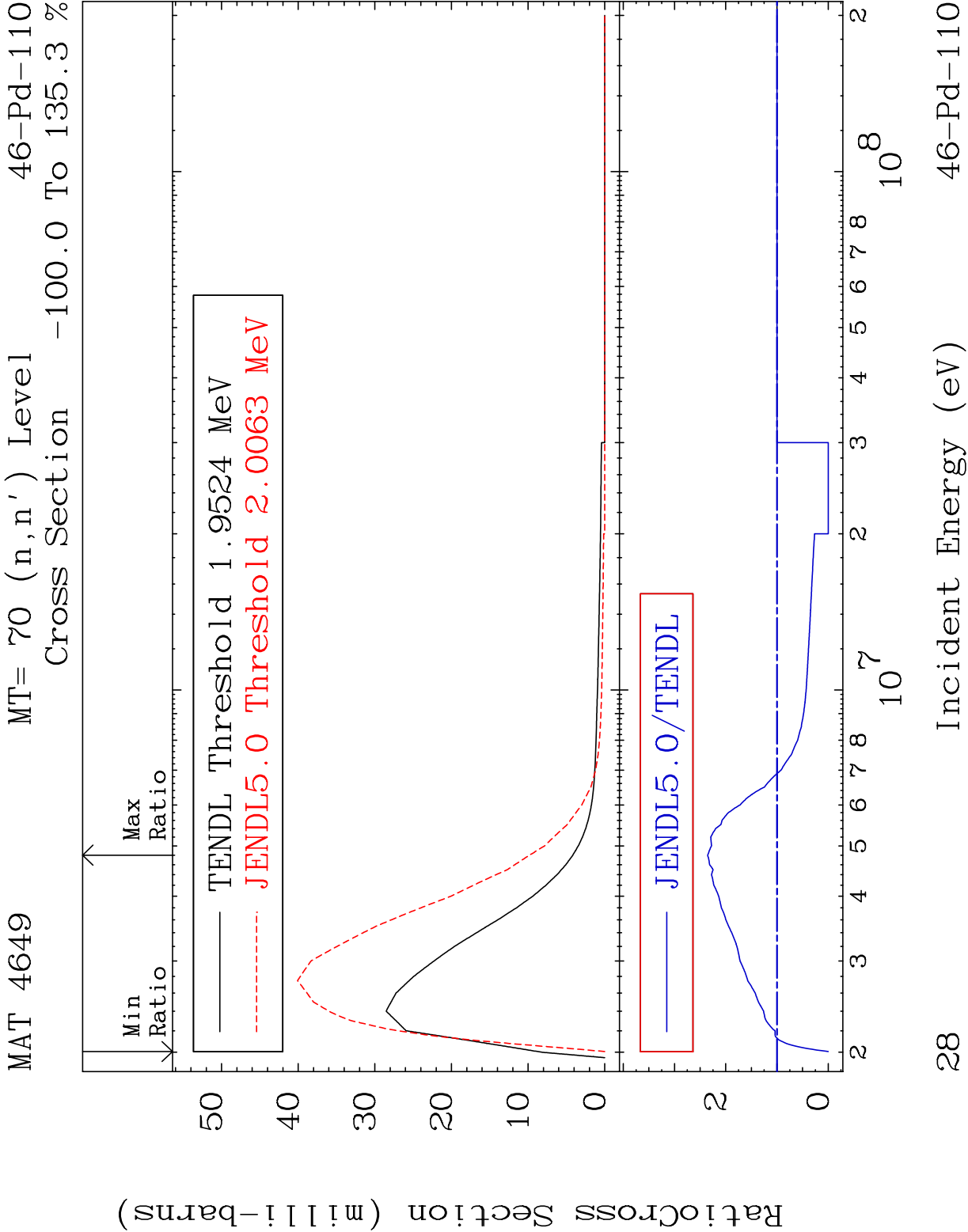
MAT 4649 MT= 66 (n,n') Level 46-Pd-110
Cross Section -100.0 To 78.18 %

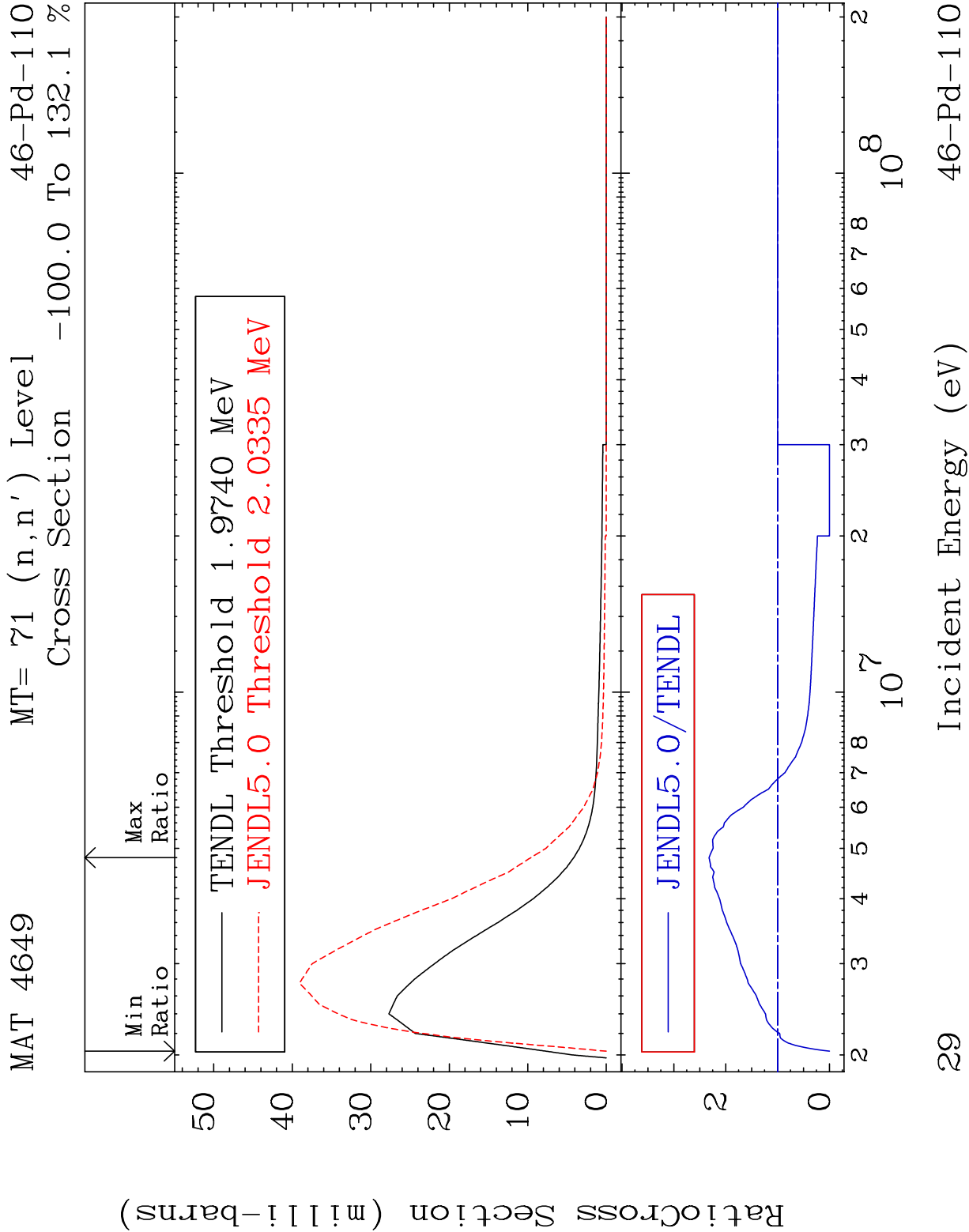




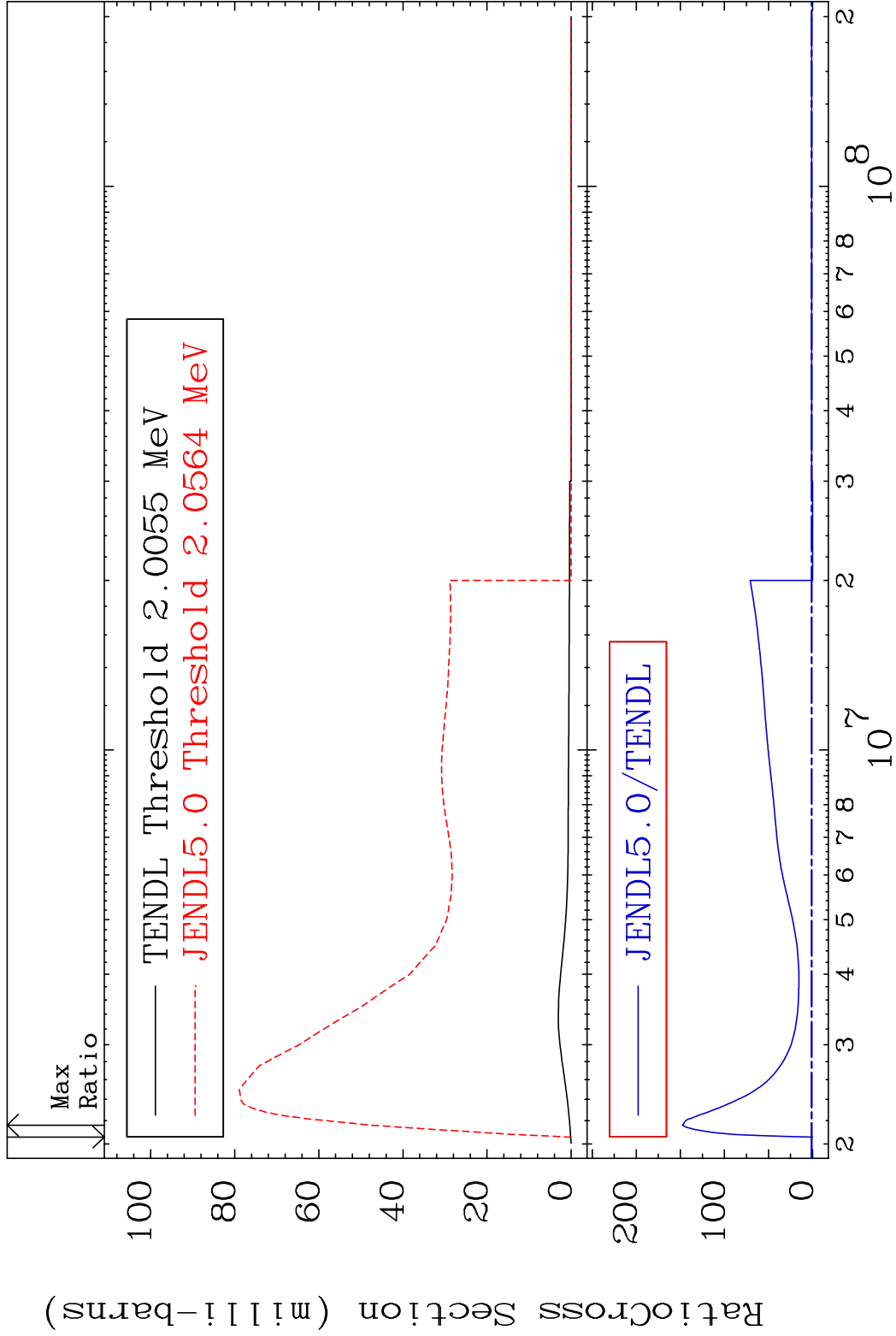




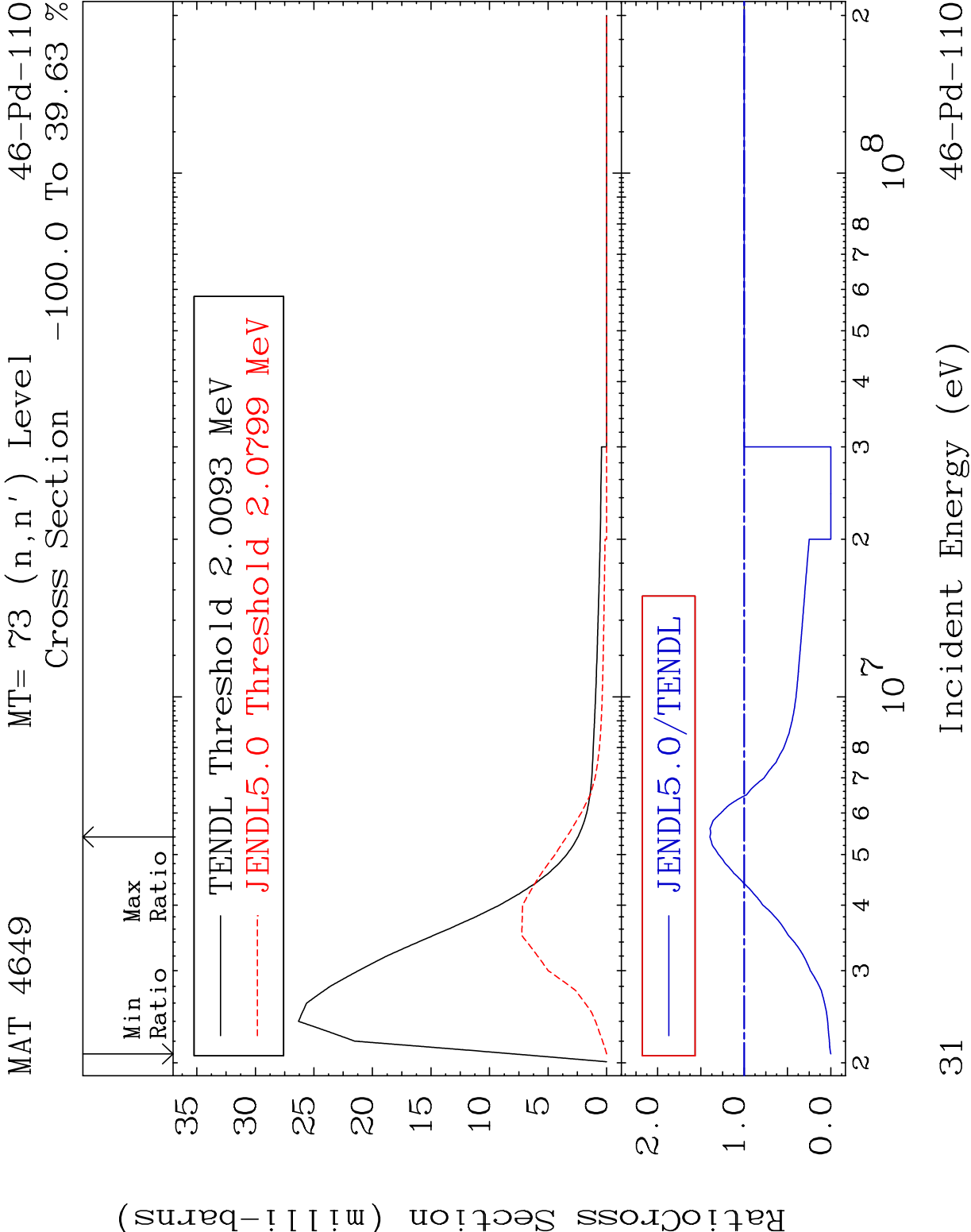


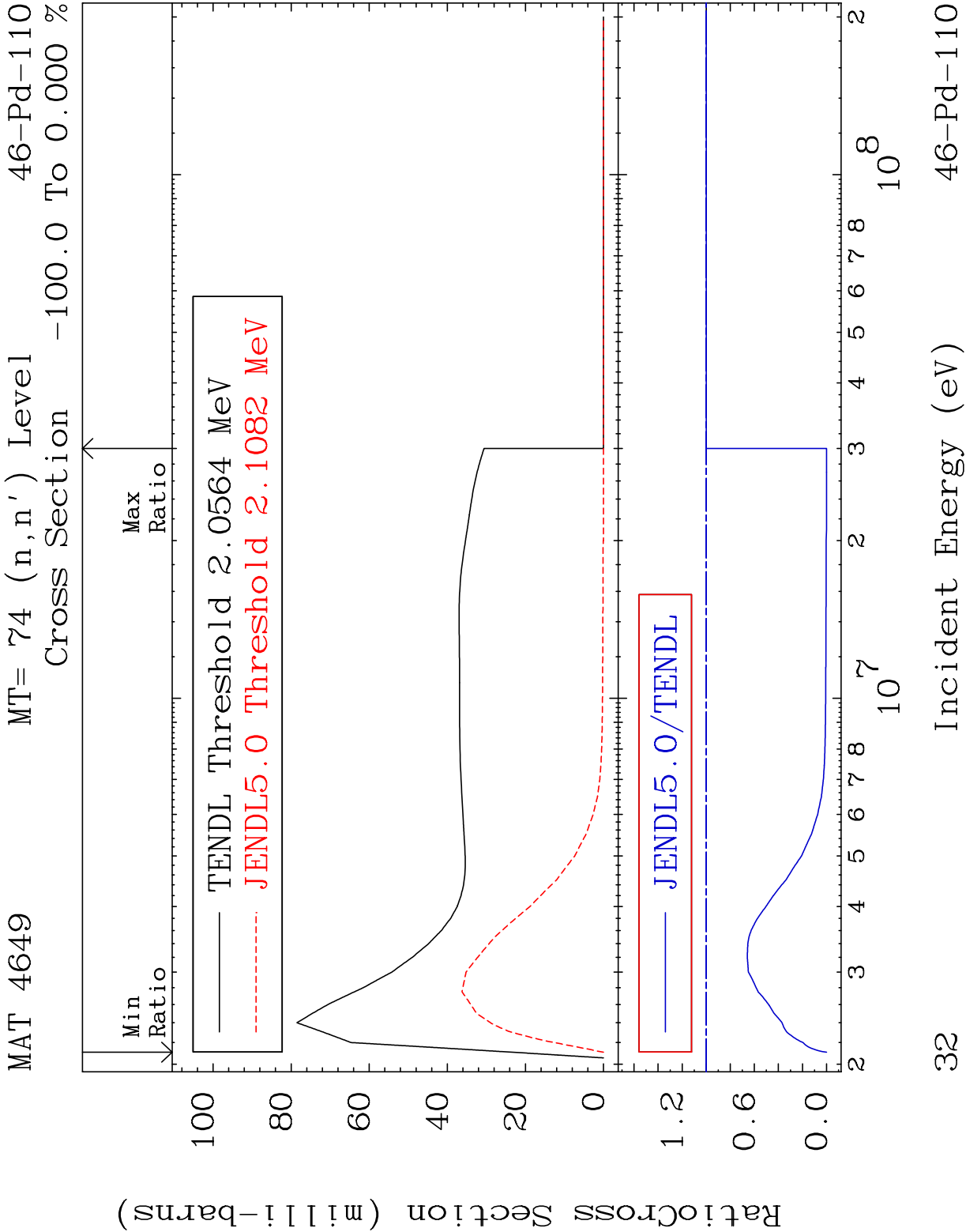


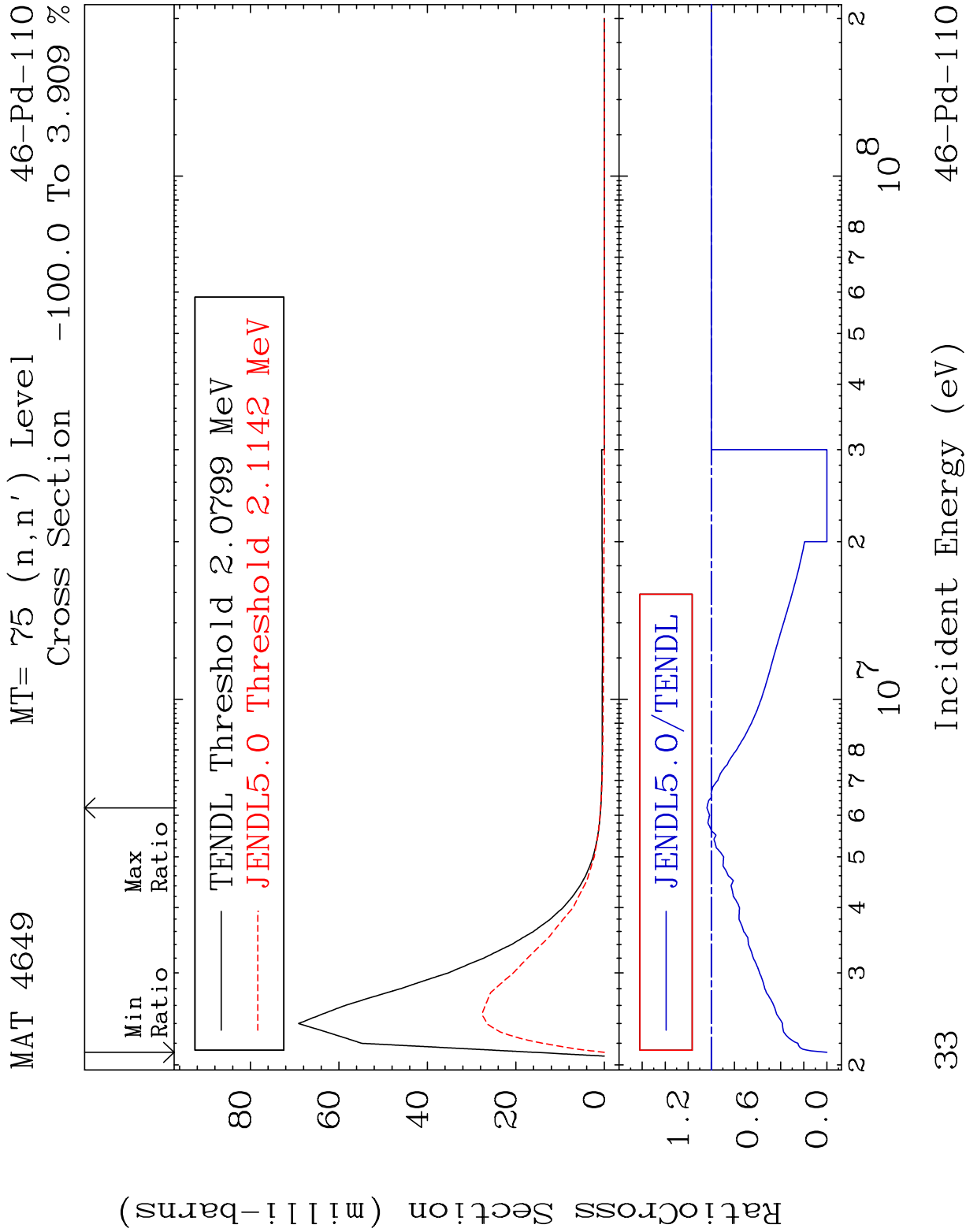
MAT 4649 MT= 72 (n,n') Level 46-Pd-110
Cross Section -100.0 To 9999. %



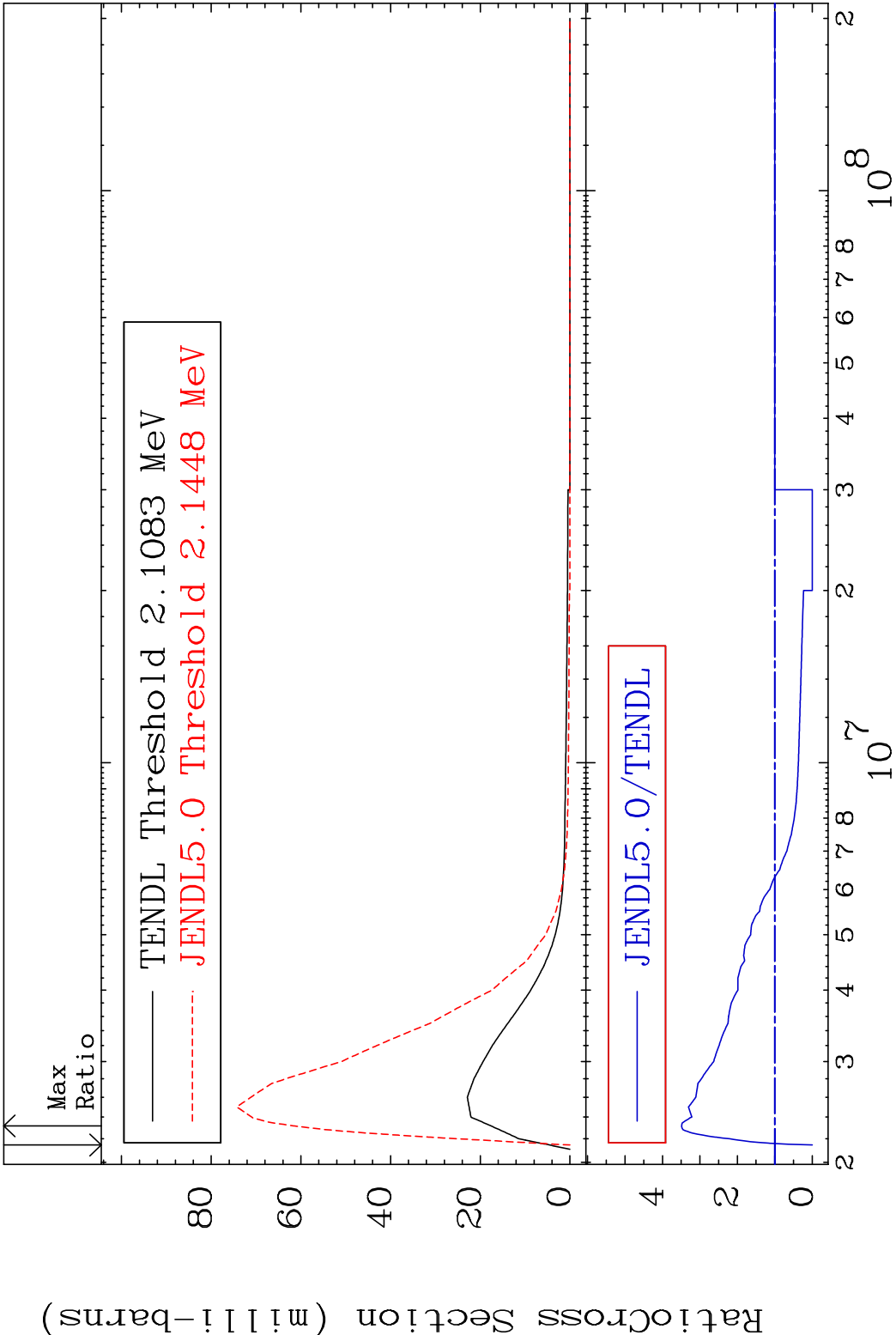
30 Incident Energy (eV) 46-Pd-110

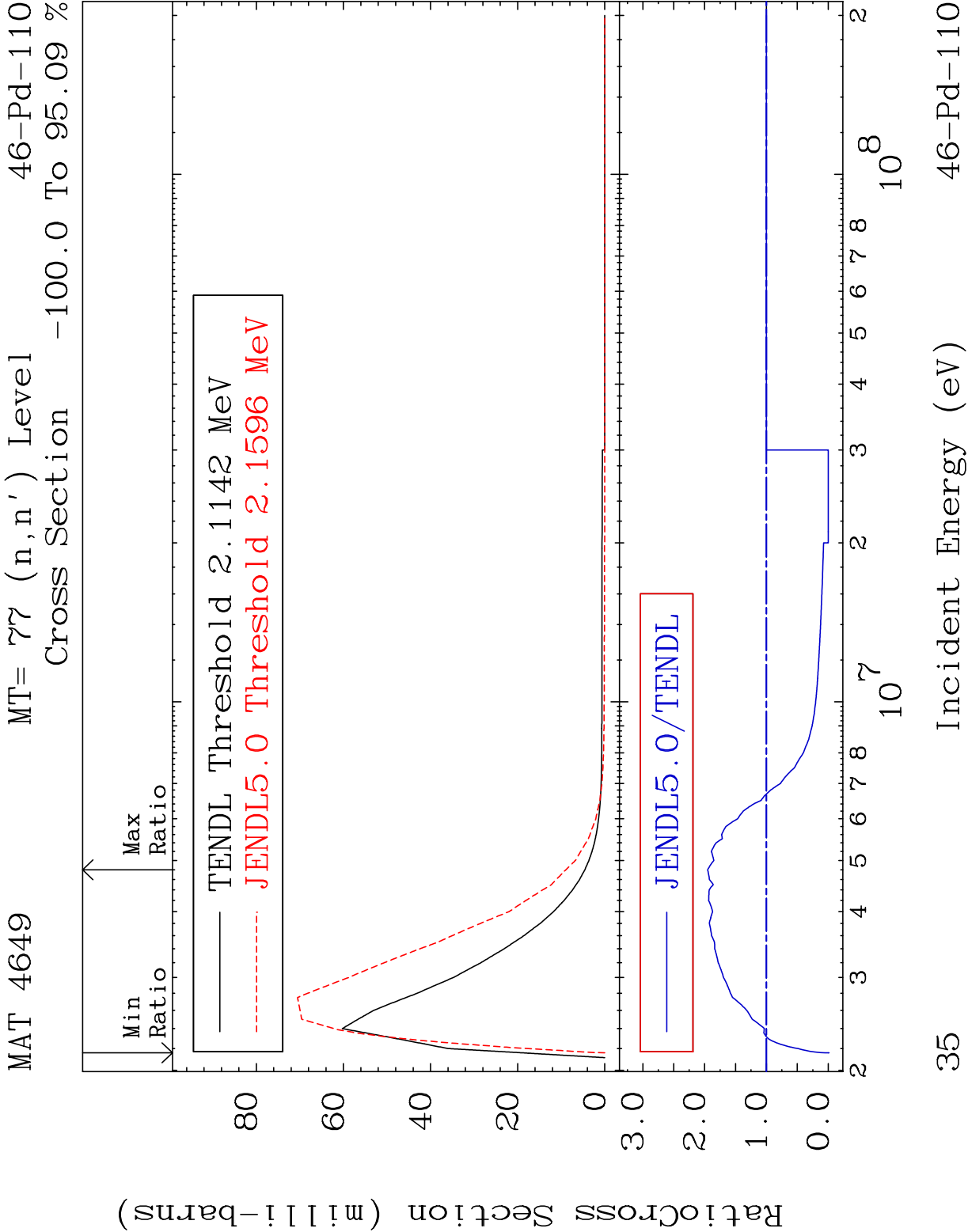


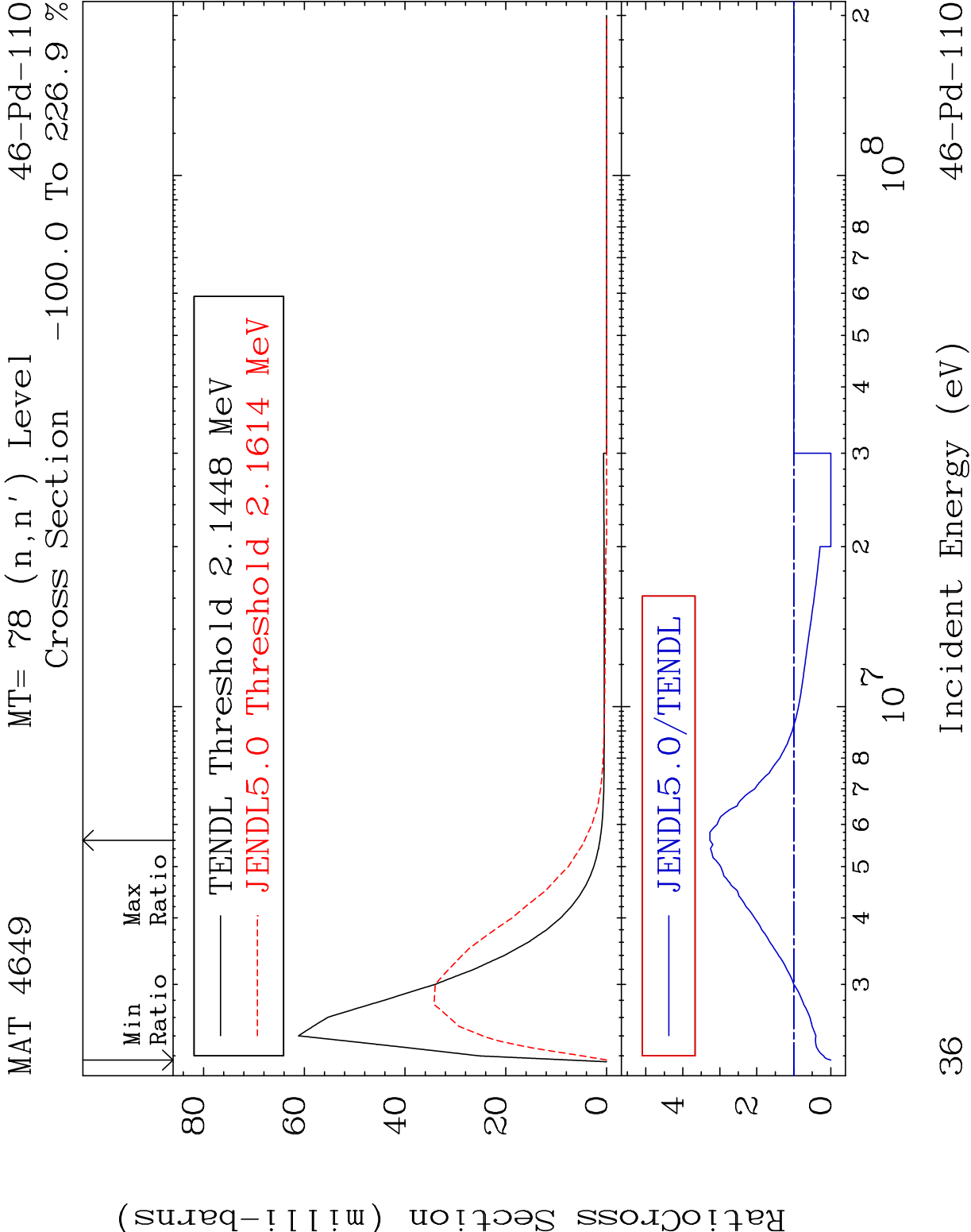


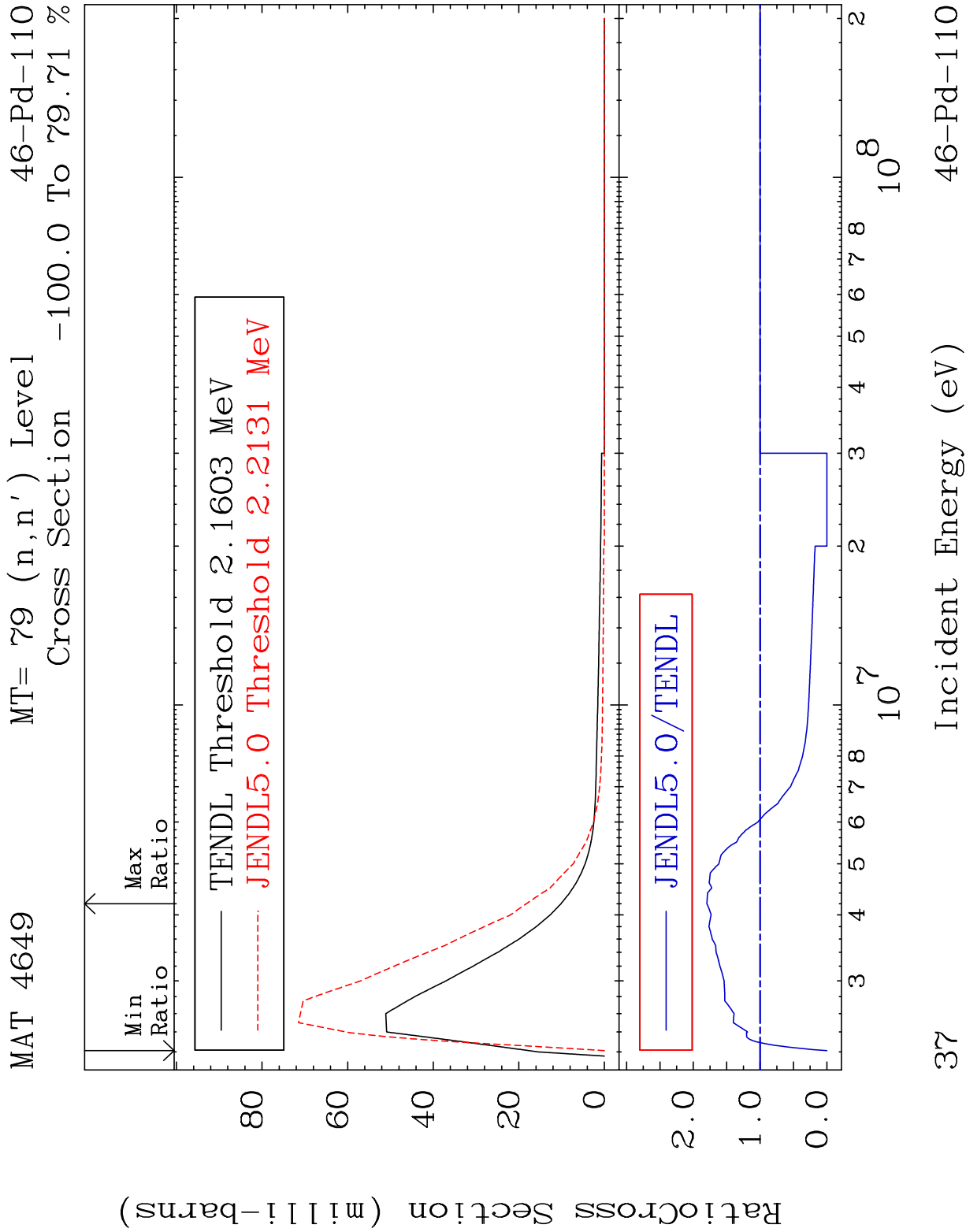


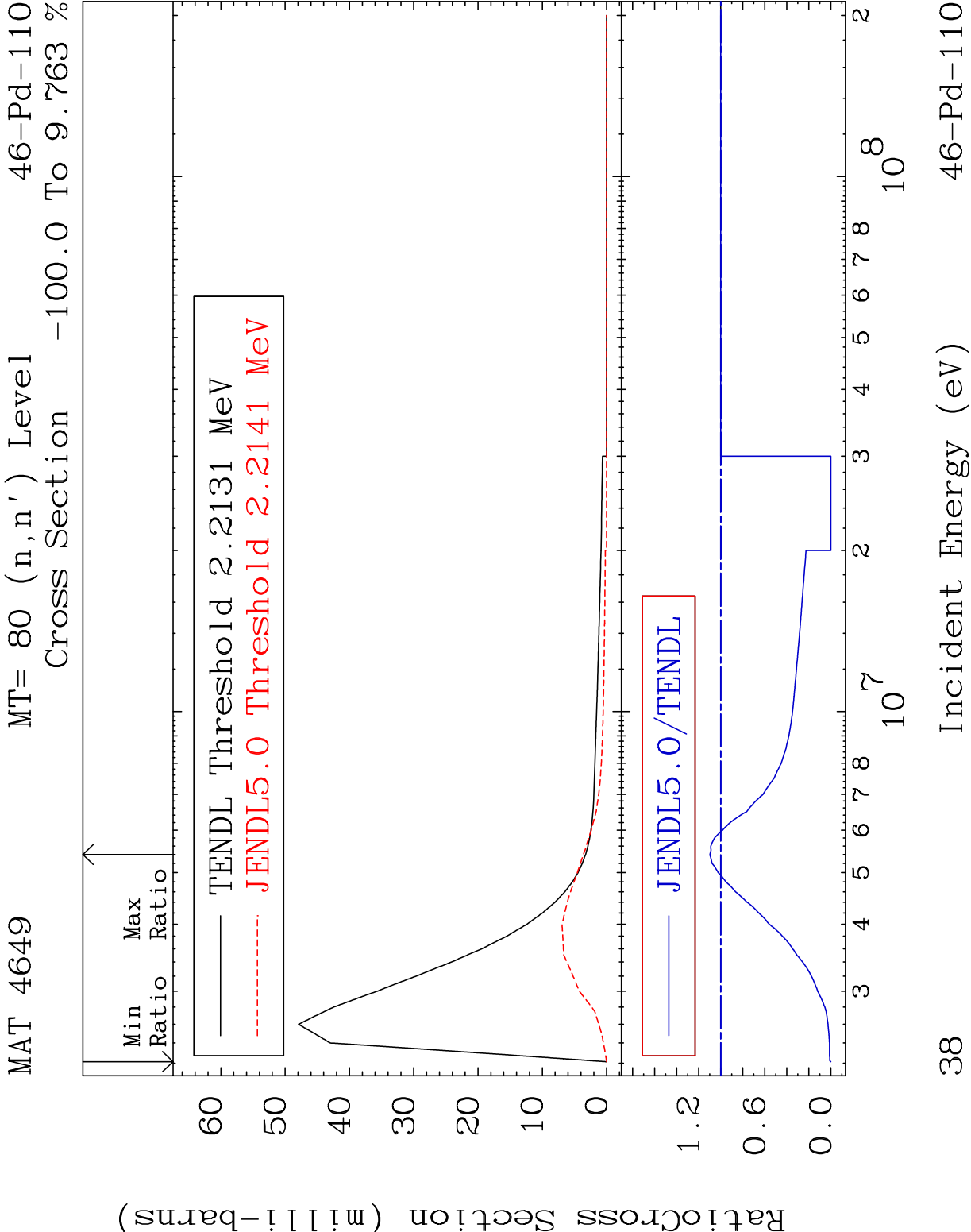
MAT 4649 MT= 76 (n,n') Level 46-Pd-110
 Cross Section -100.0 To 249.1 %

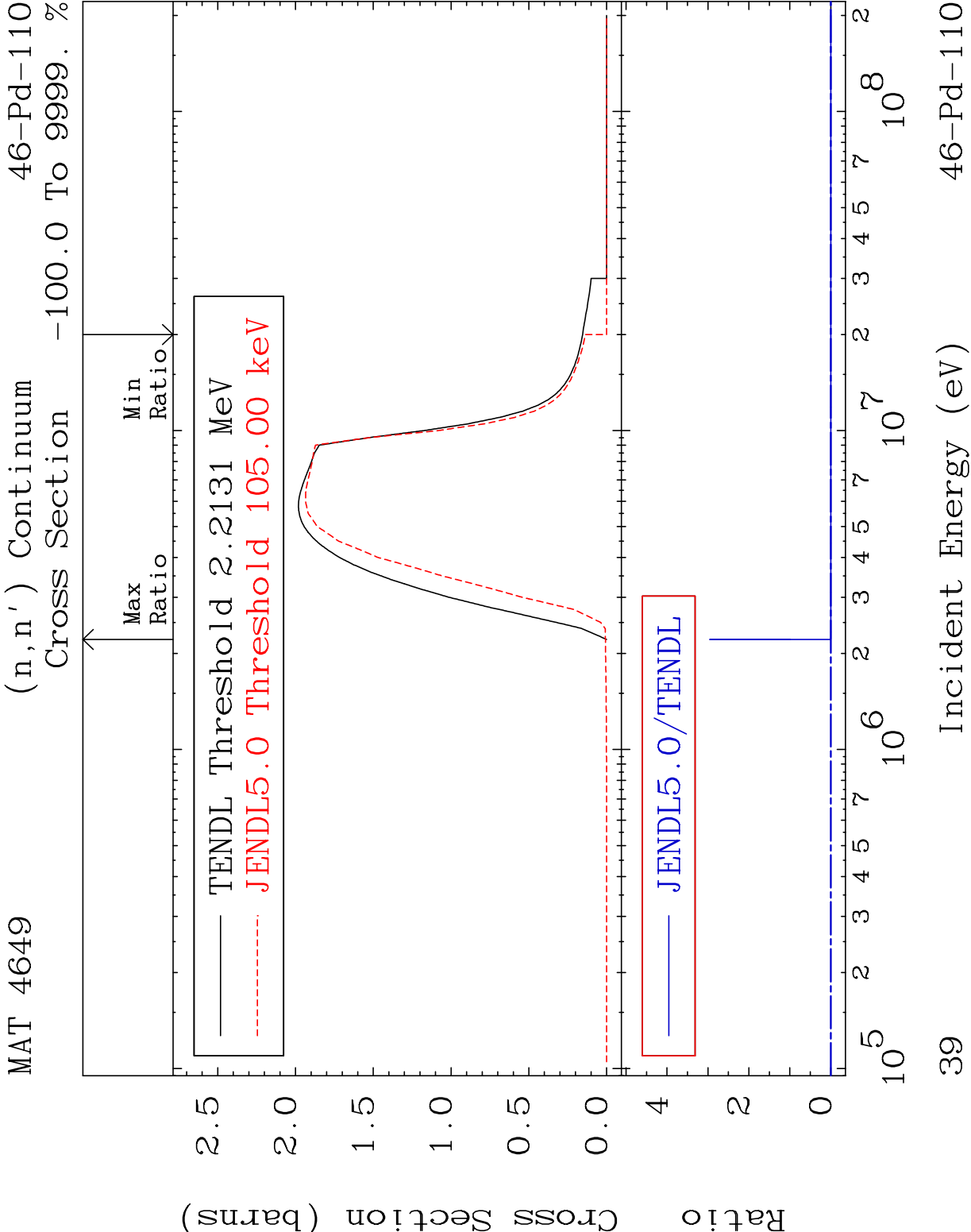


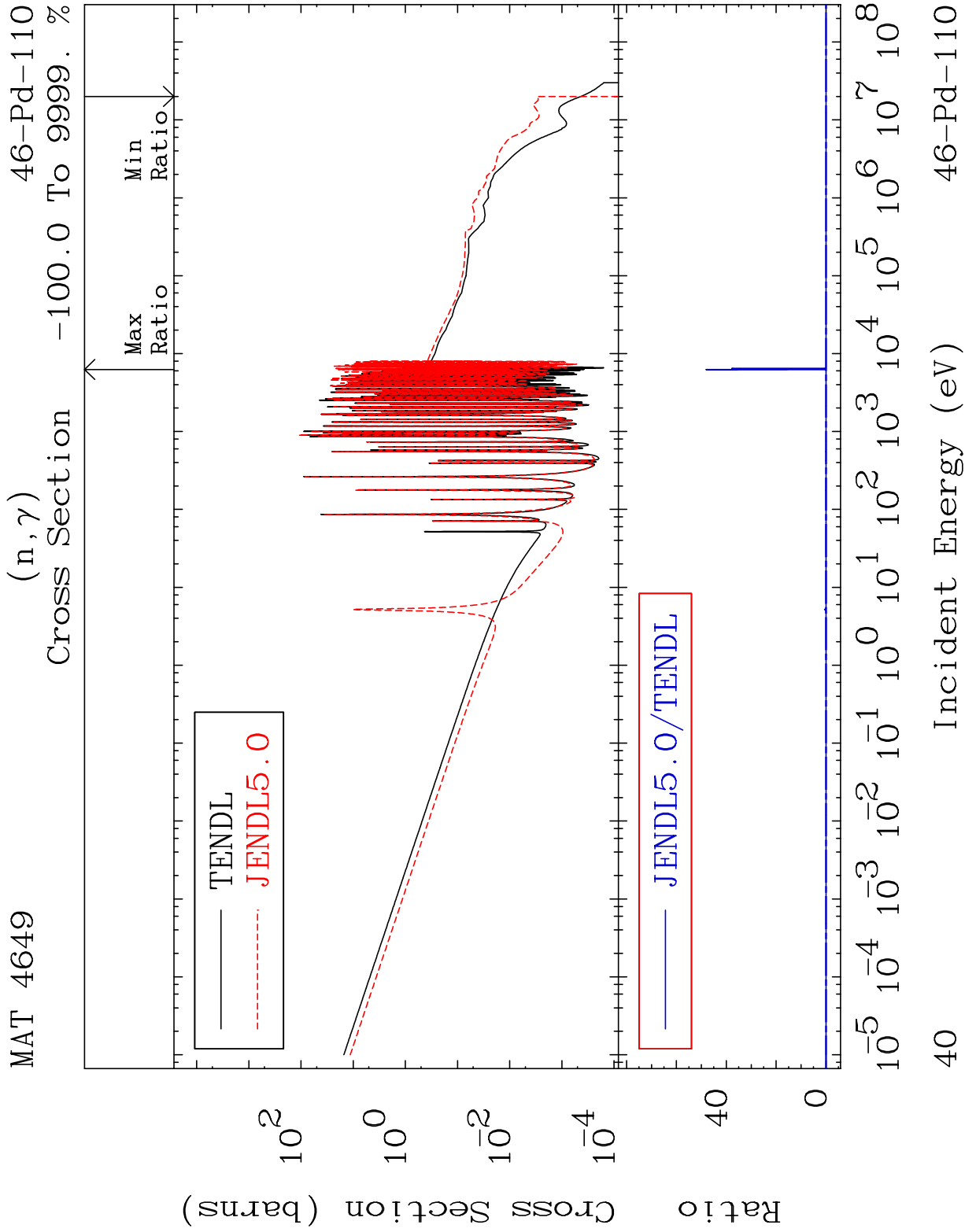


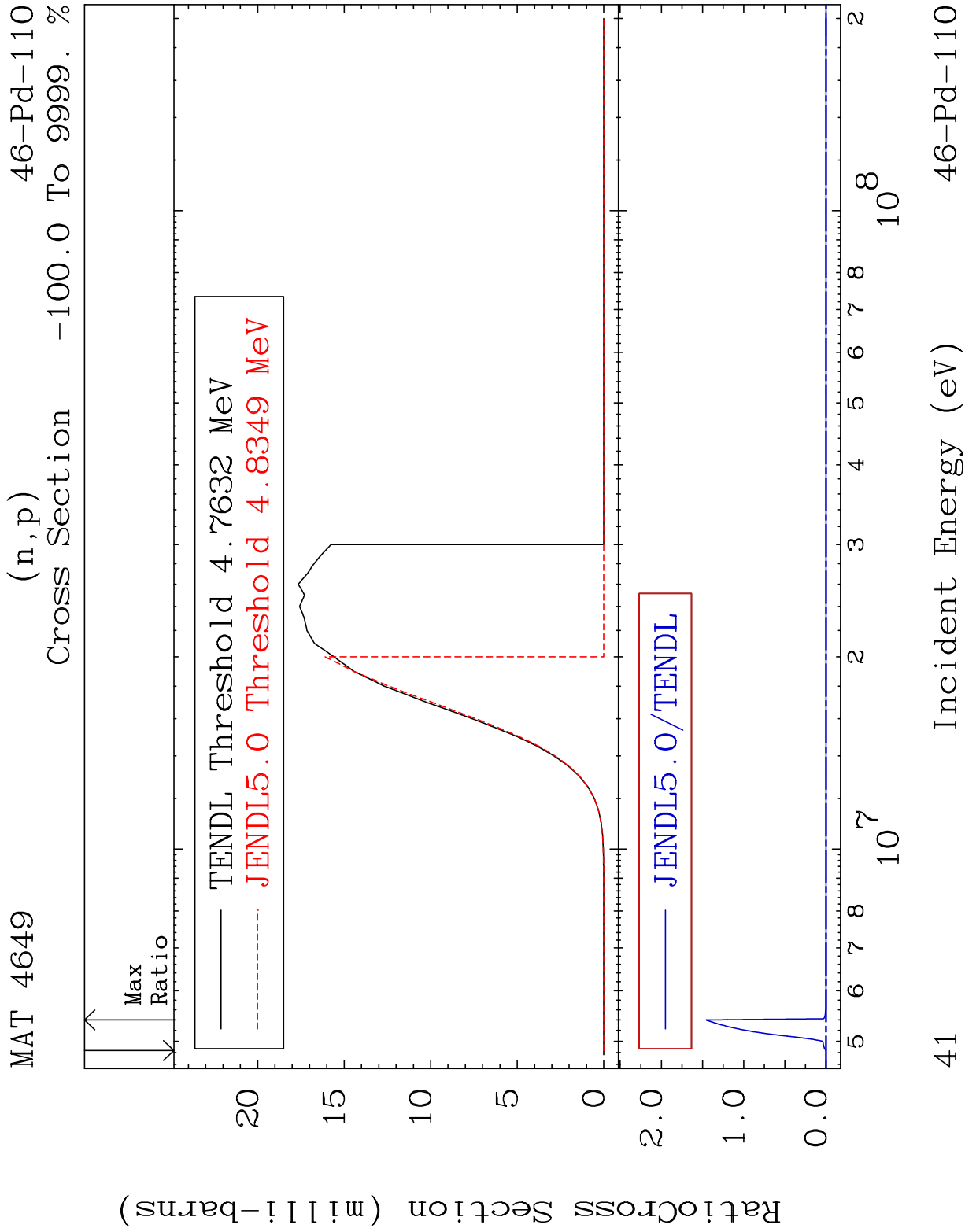


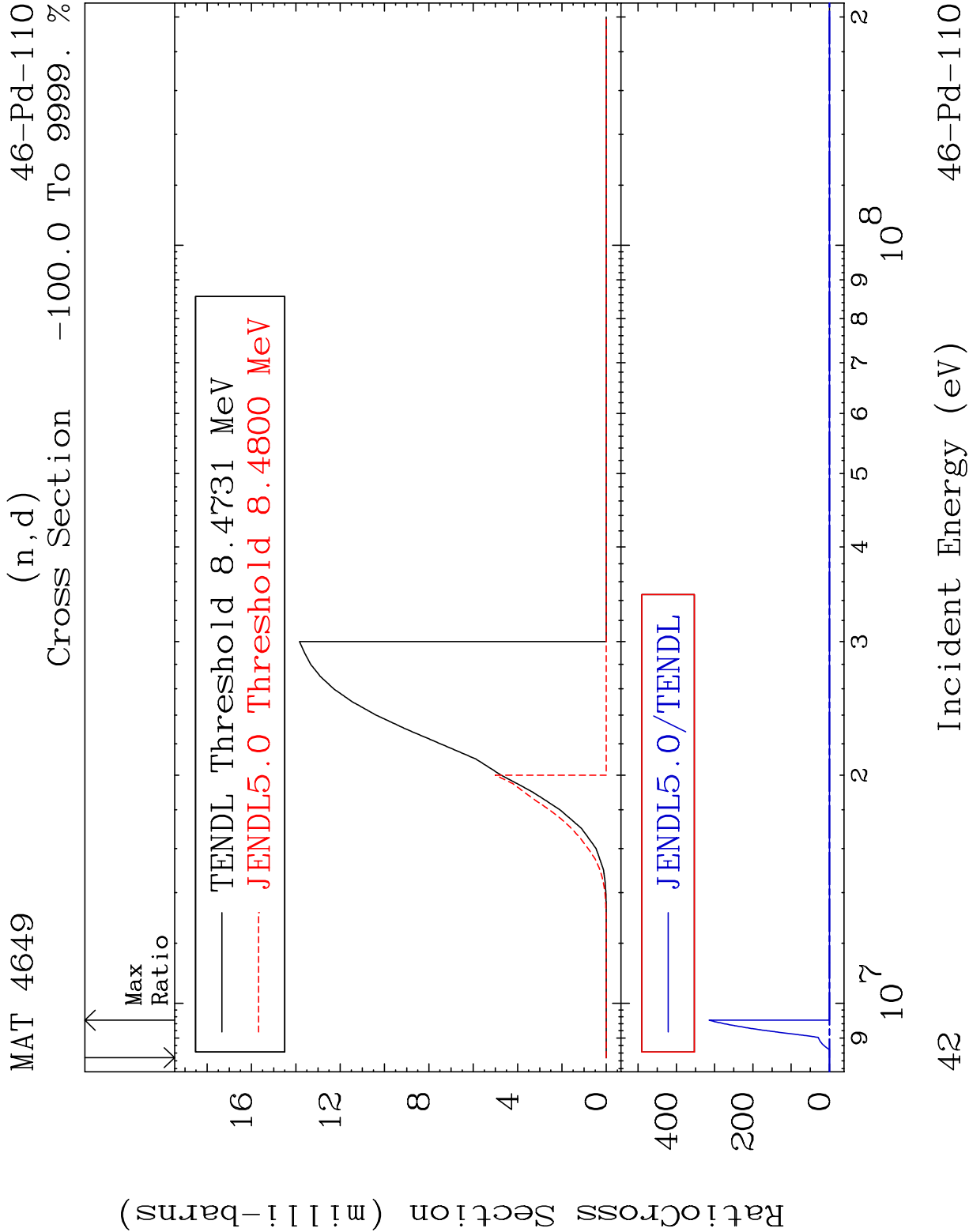


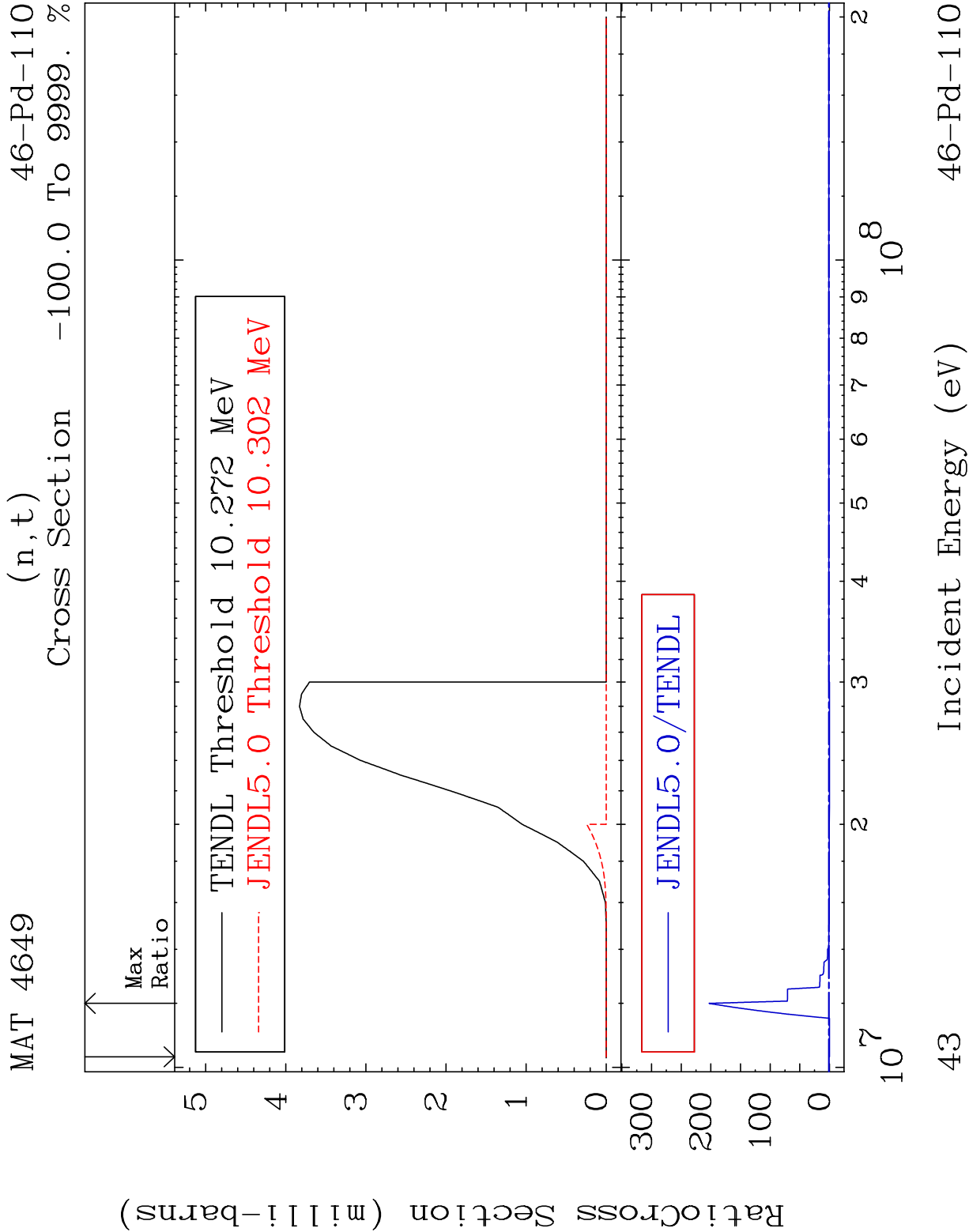


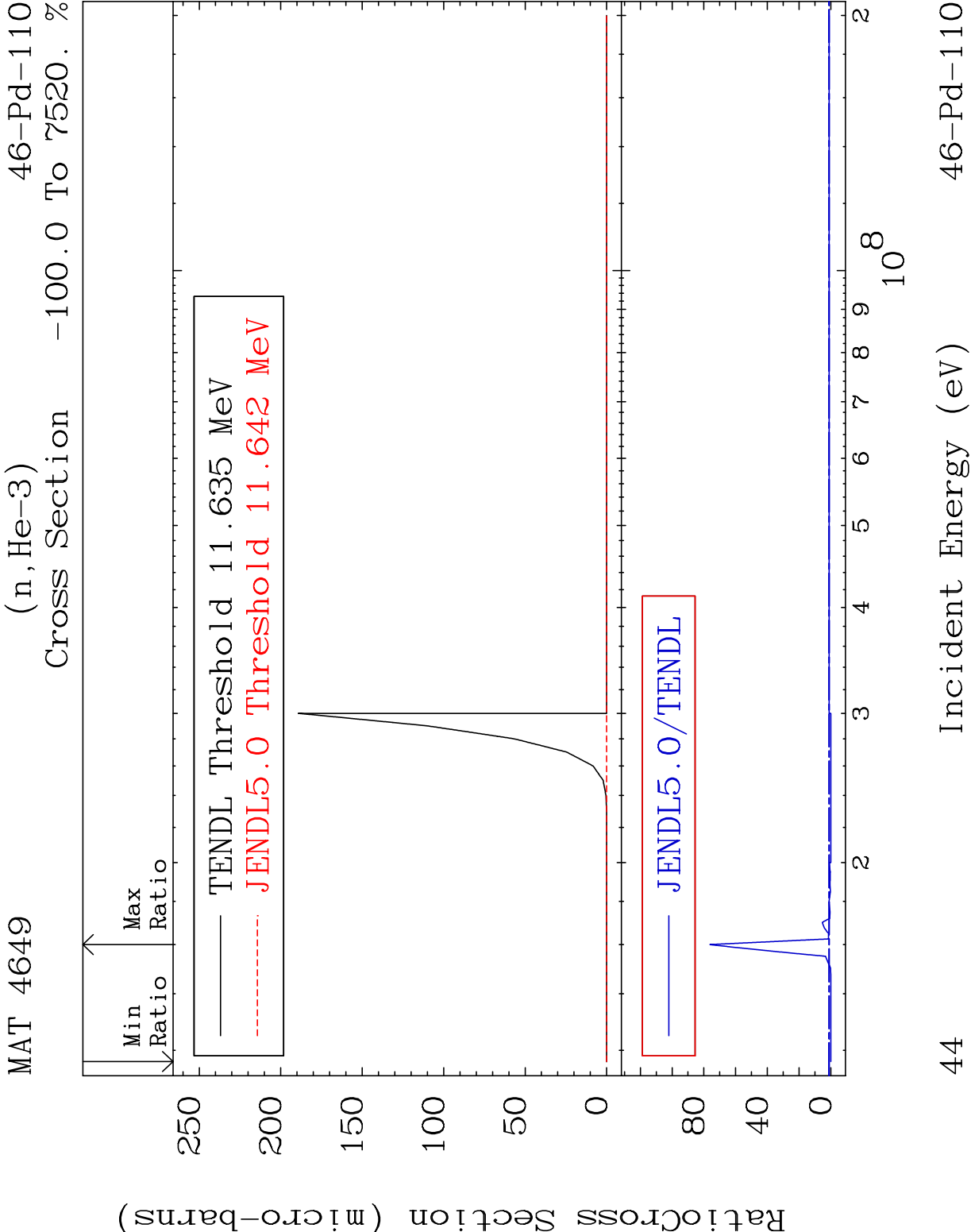






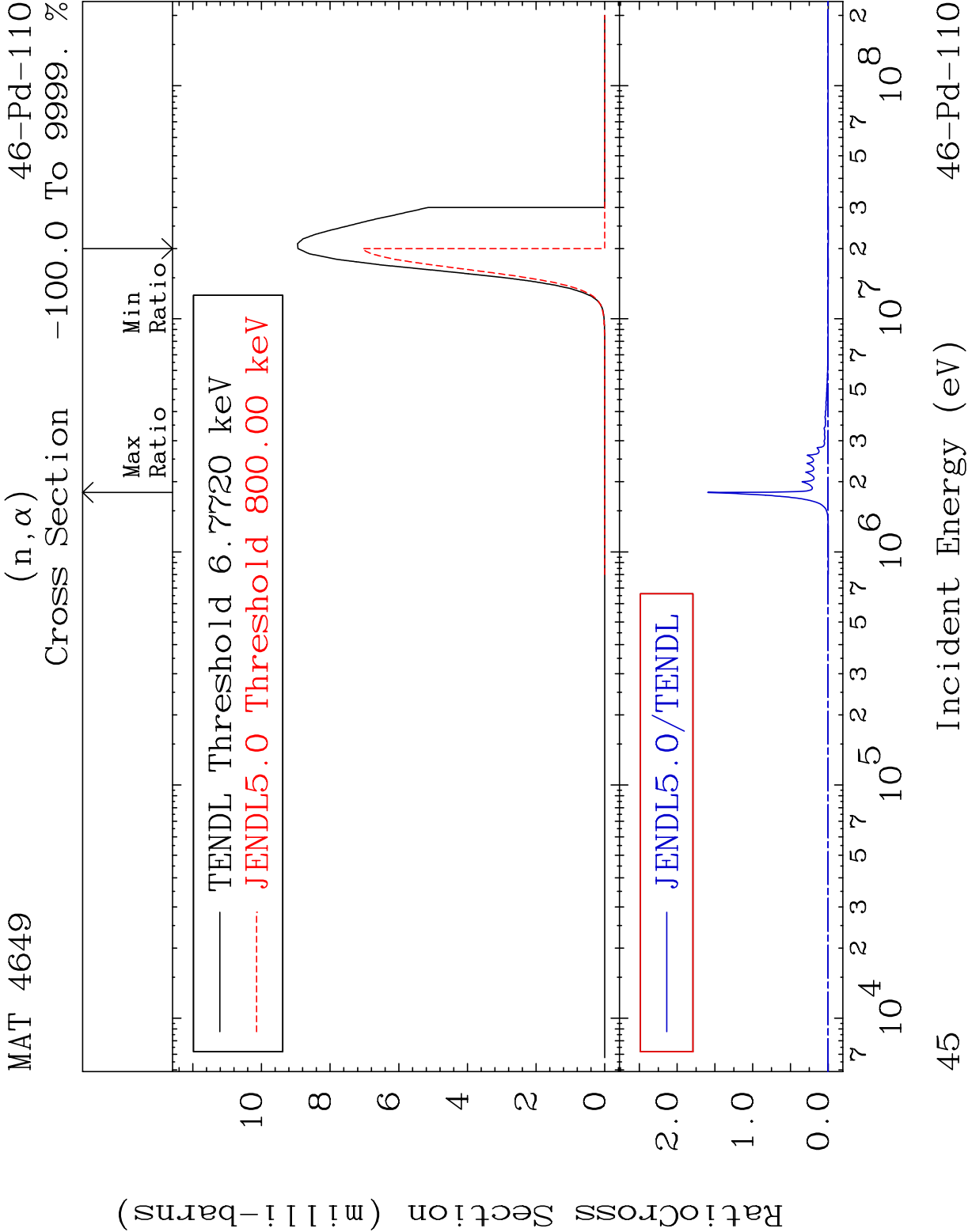


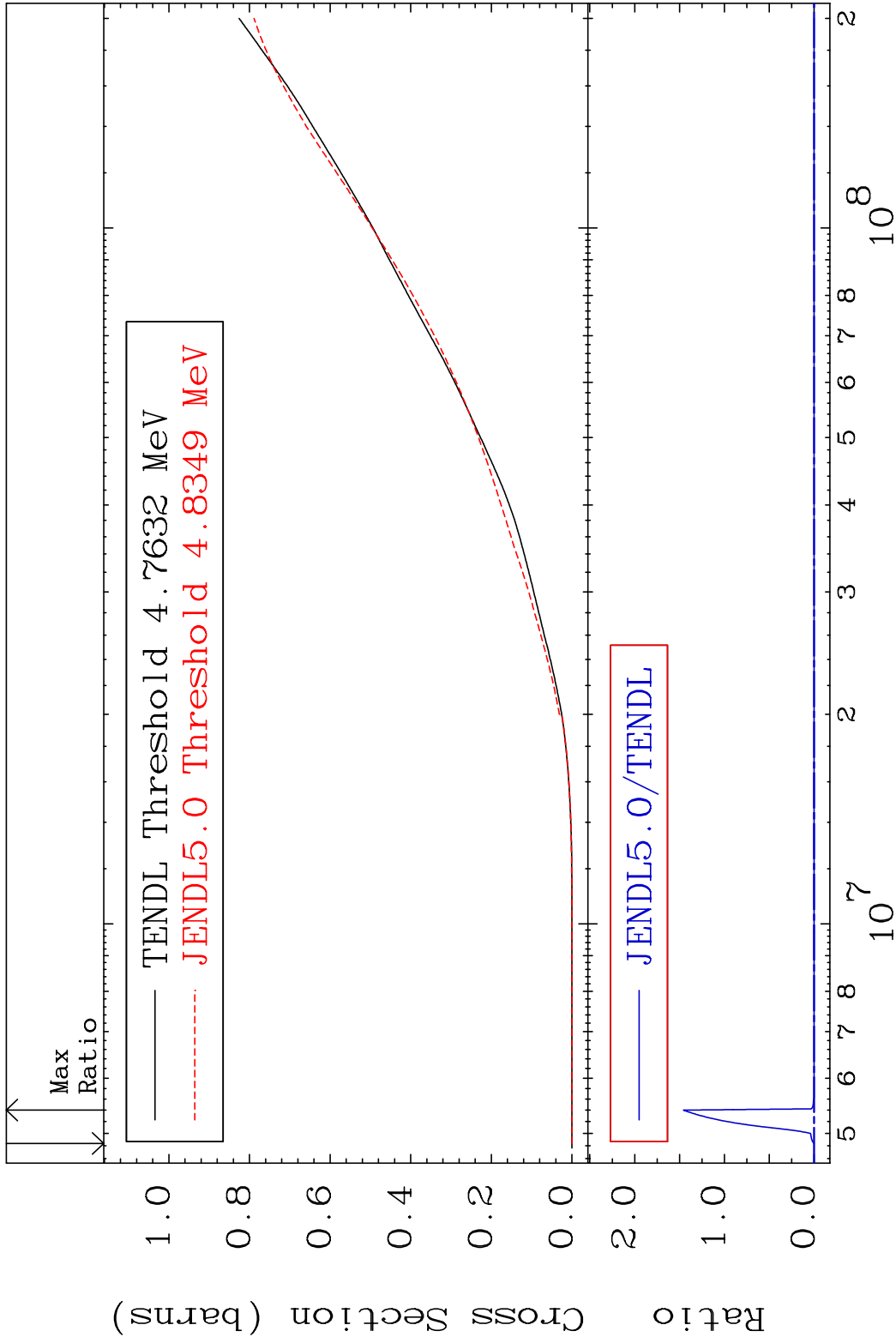


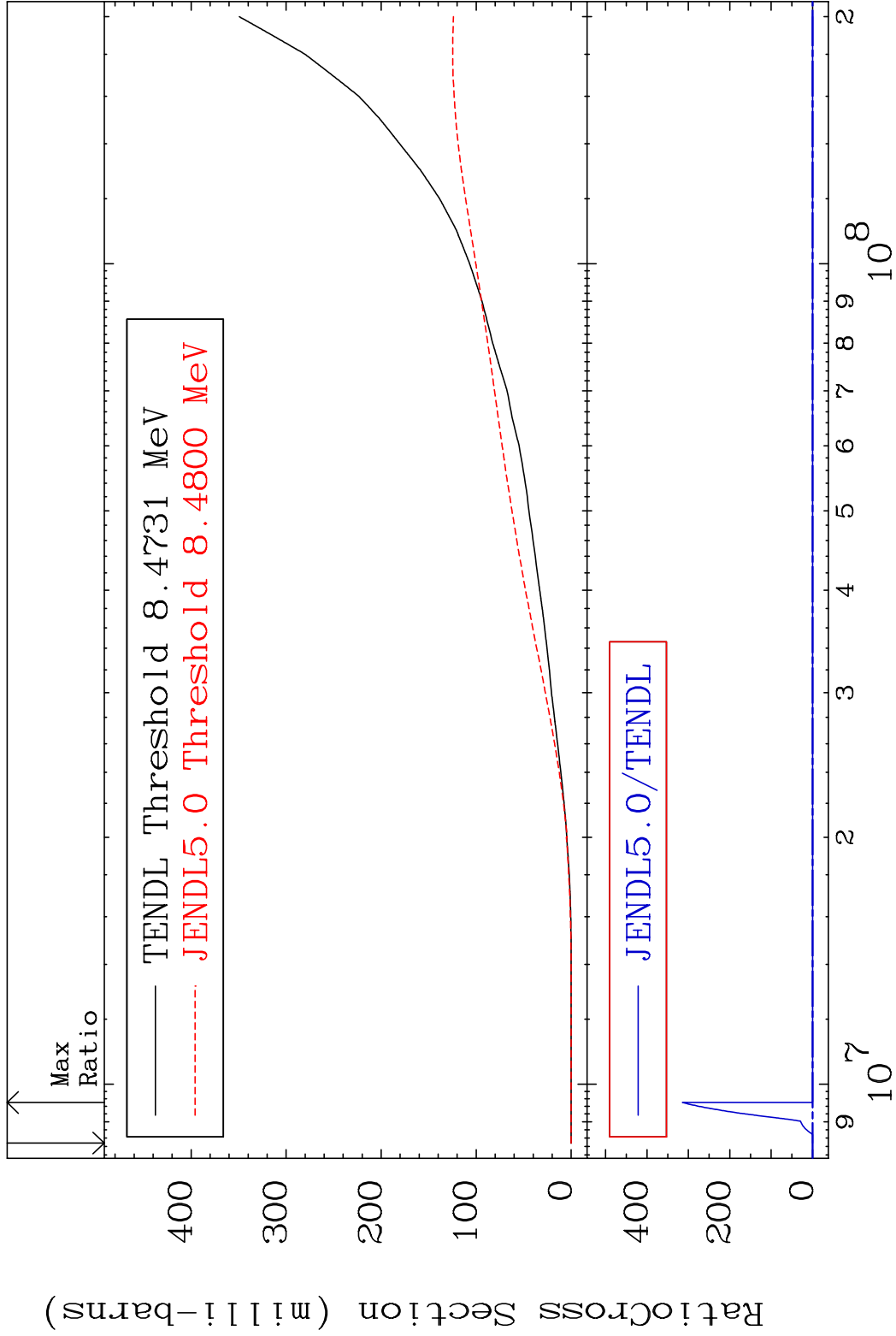


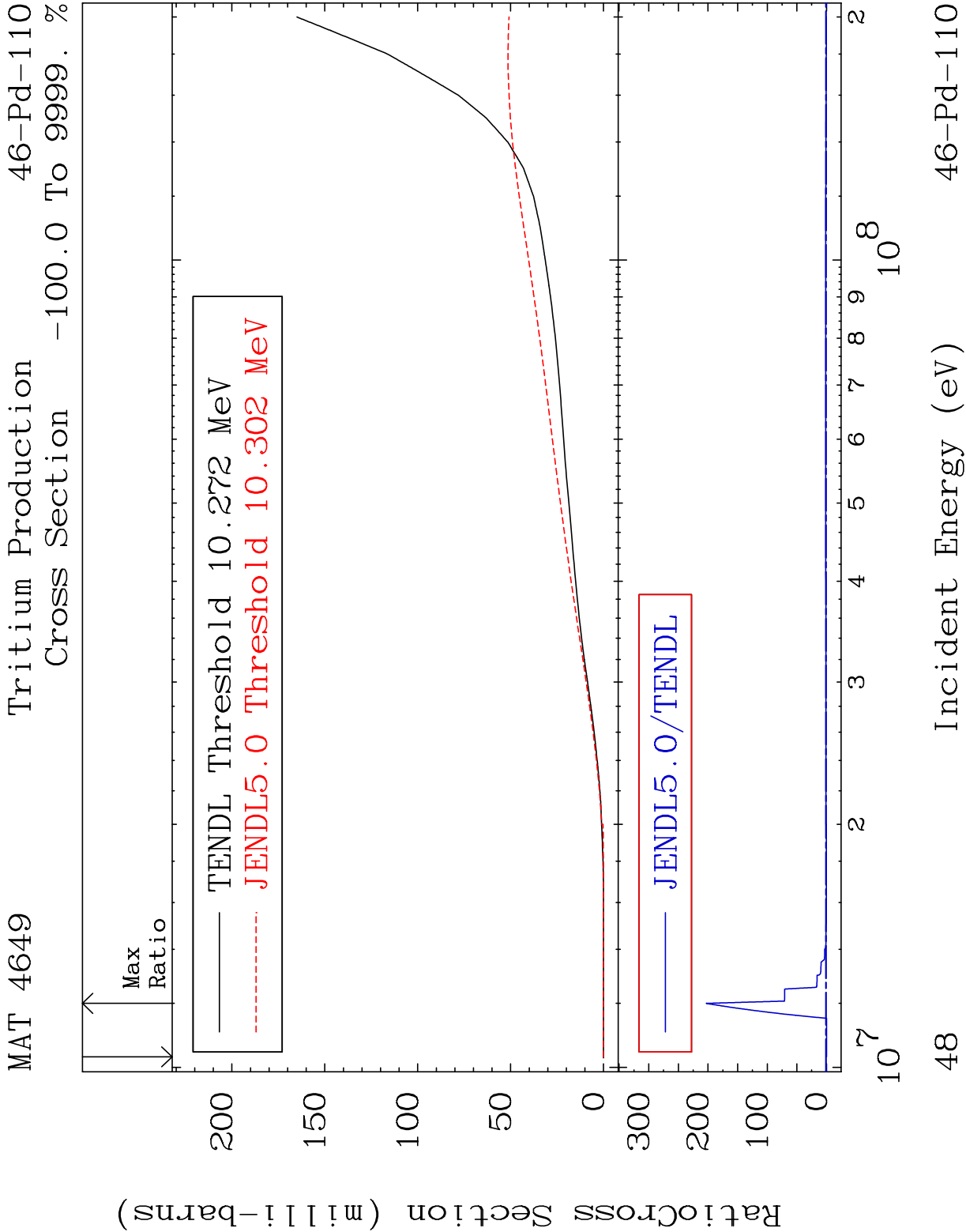
44

46-Pd-110







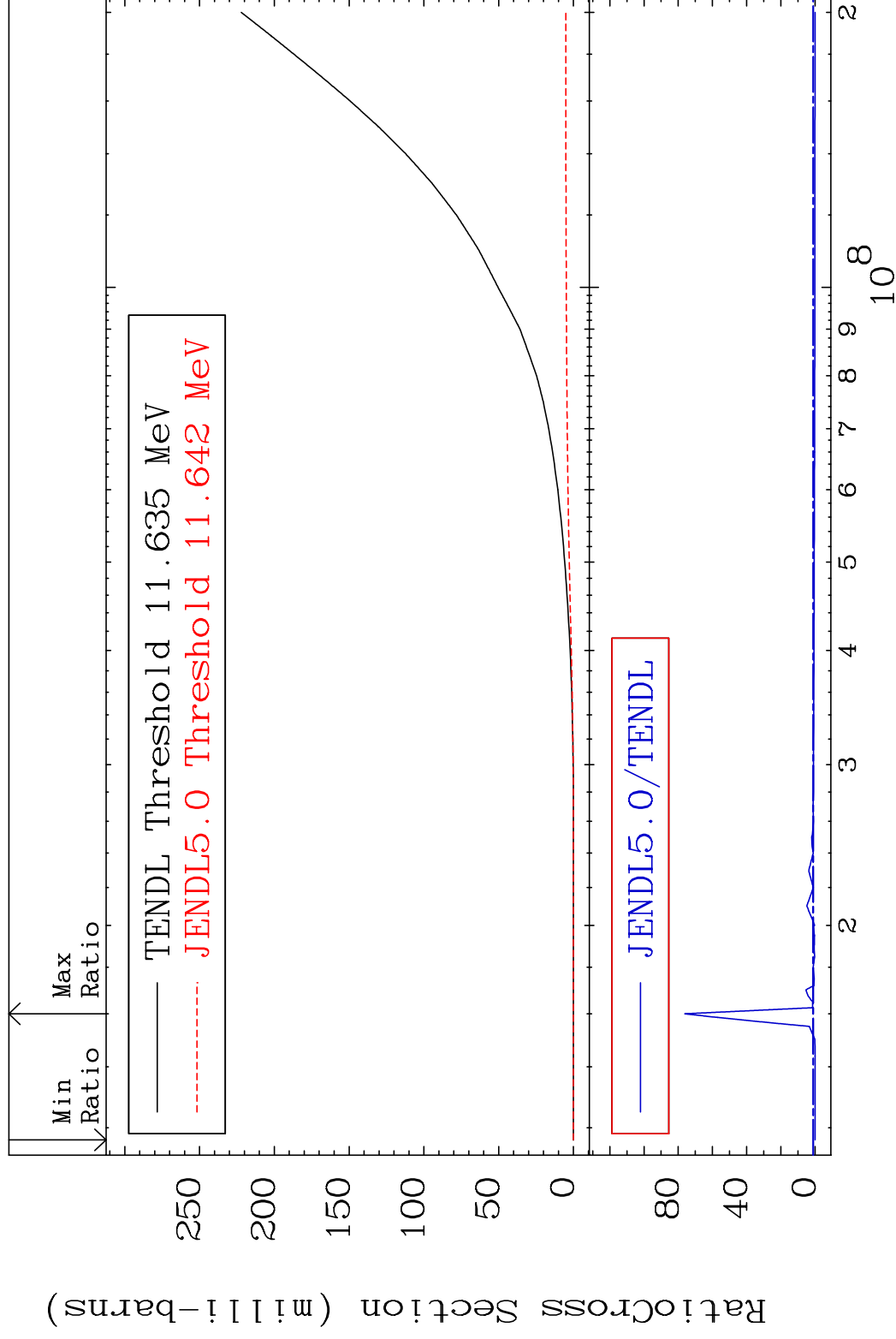


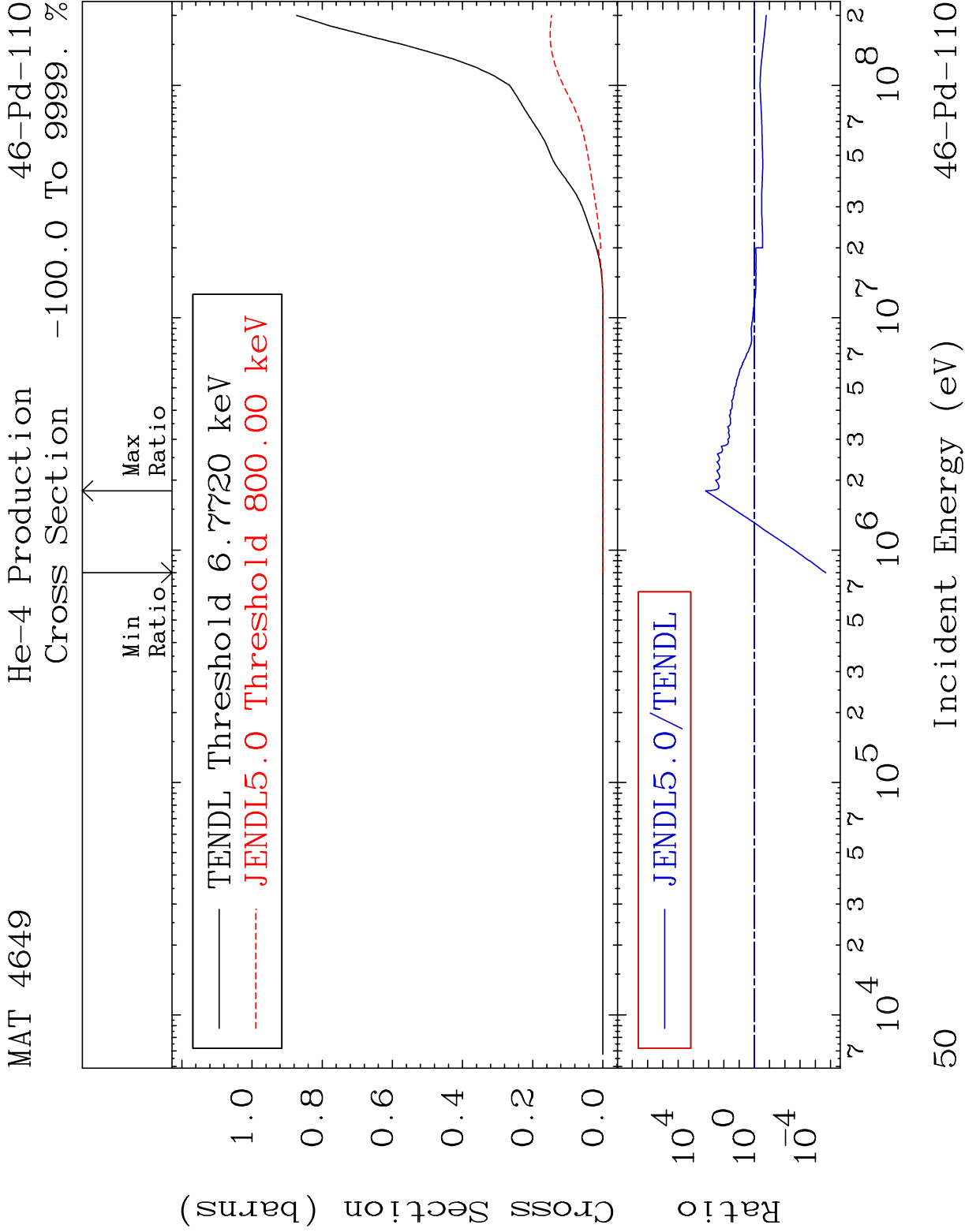
MAT 4649

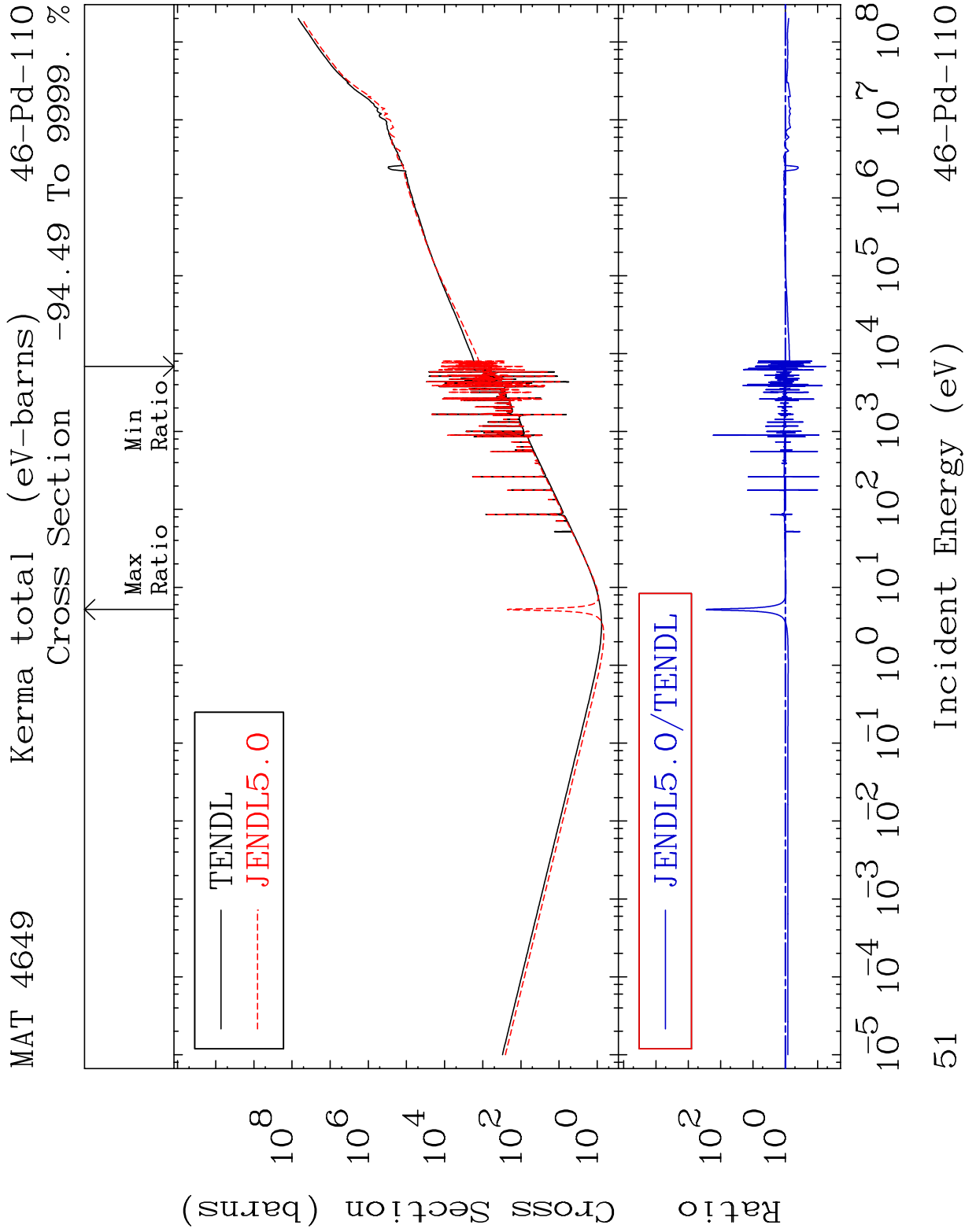
He-3 Production

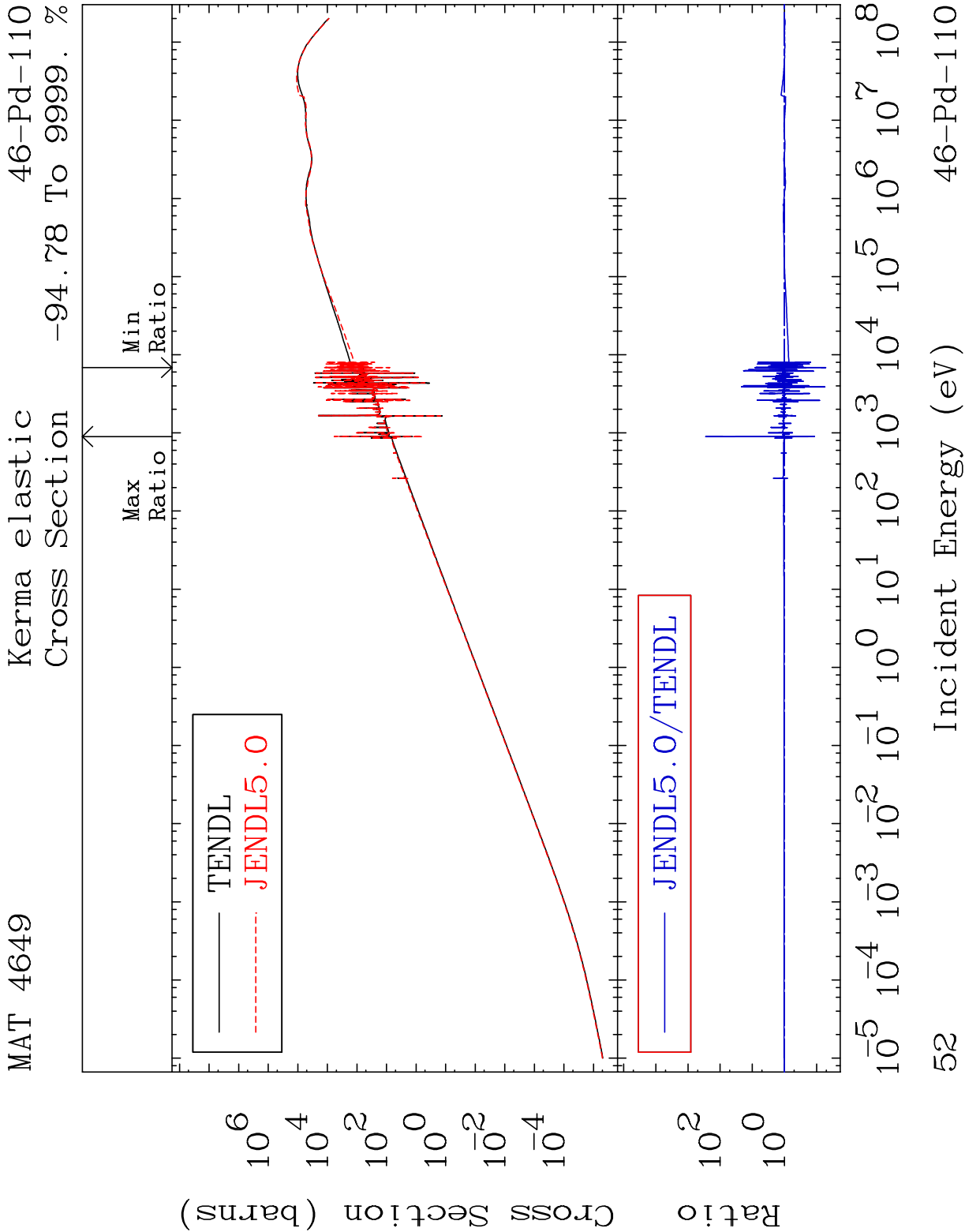
46-Pd-110

Cross Section -100.0 To 7520. %

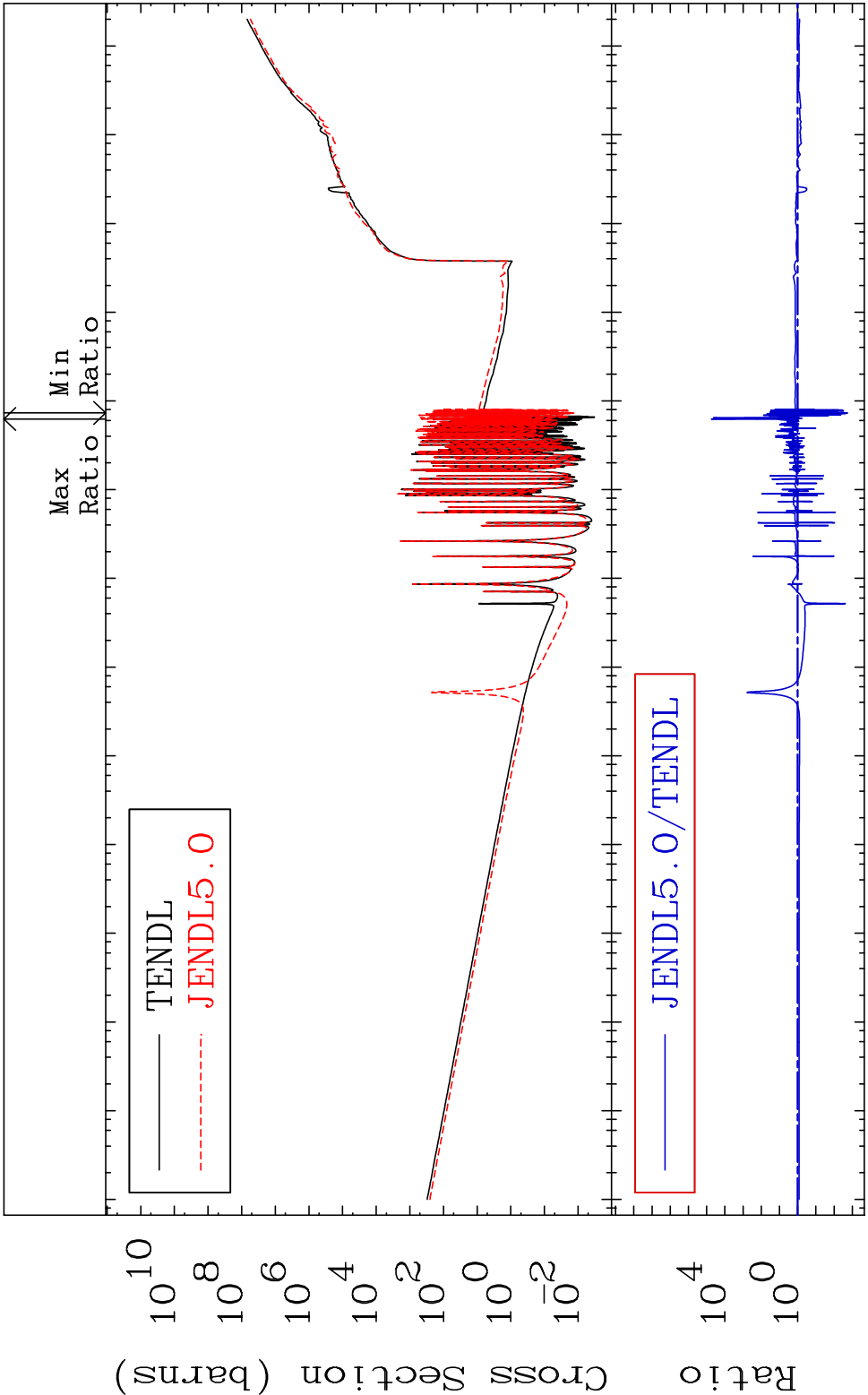




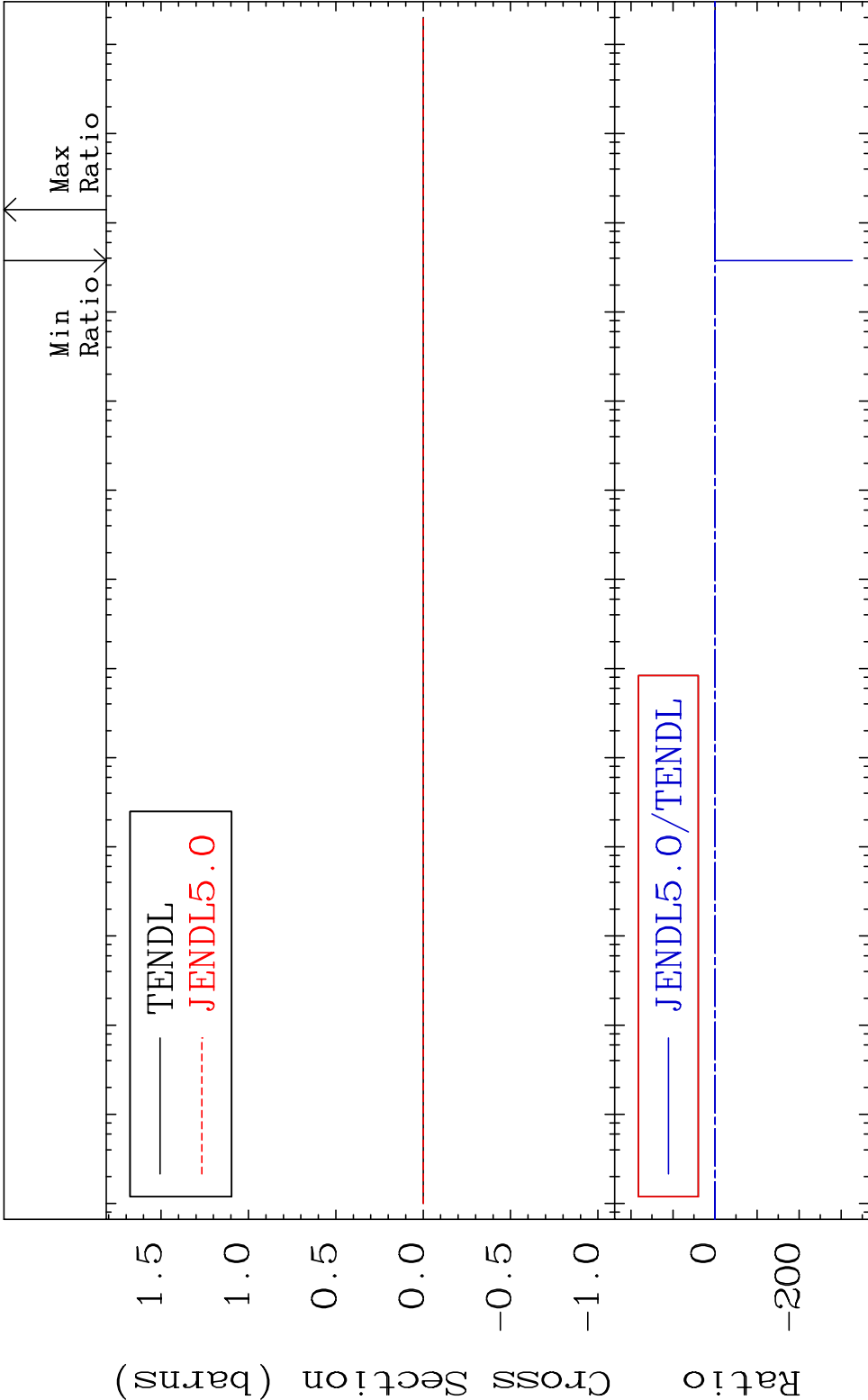




MAT 4649 Kerma non-elastic (all but mt2) 46-Pd-110
 Cross Section -99.82 To 9999. %

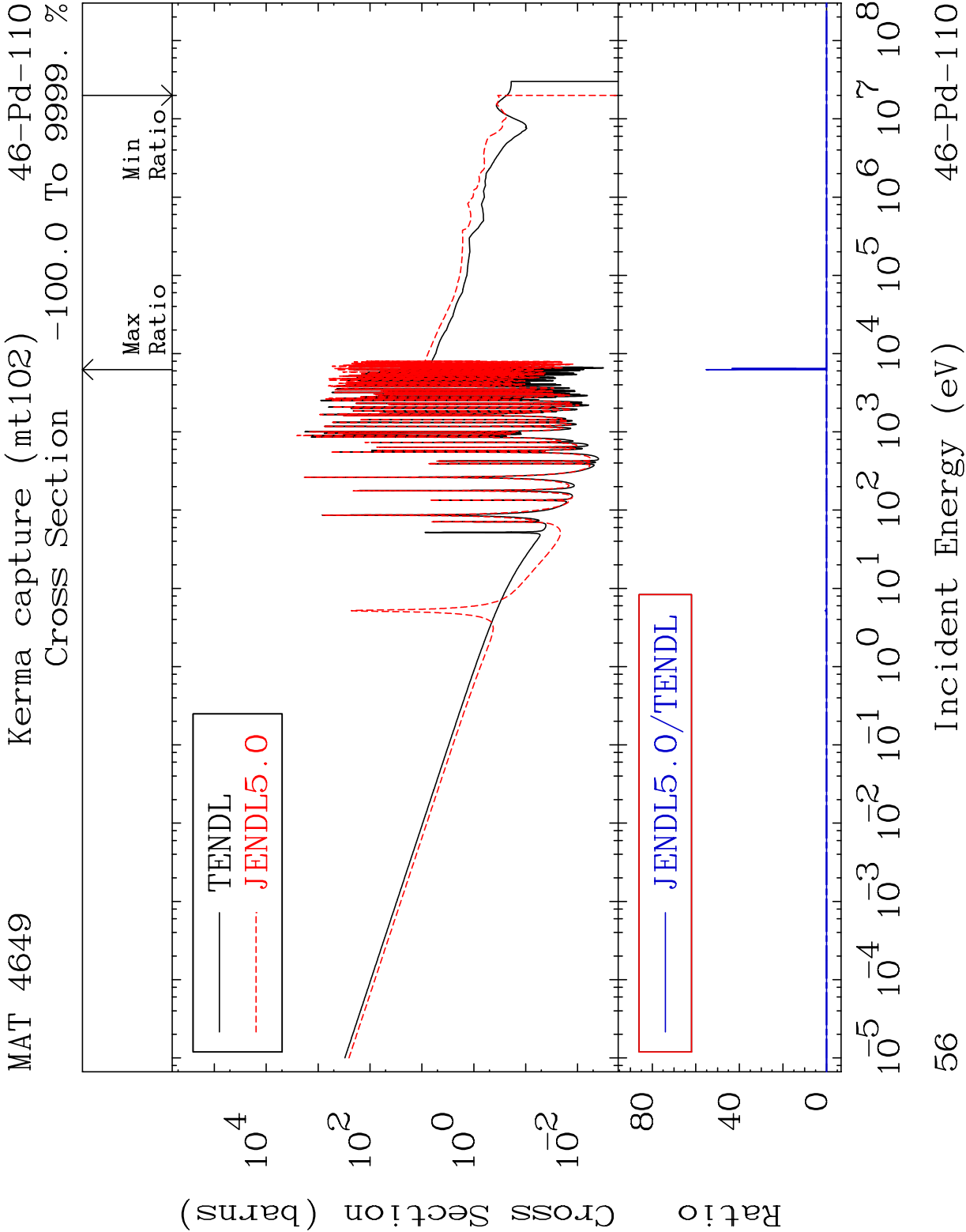


MAT 4649Kerma fission (mt18 or mt19-20-21-38)46-Pd-110
Cross Section -9999. To 34.16 %

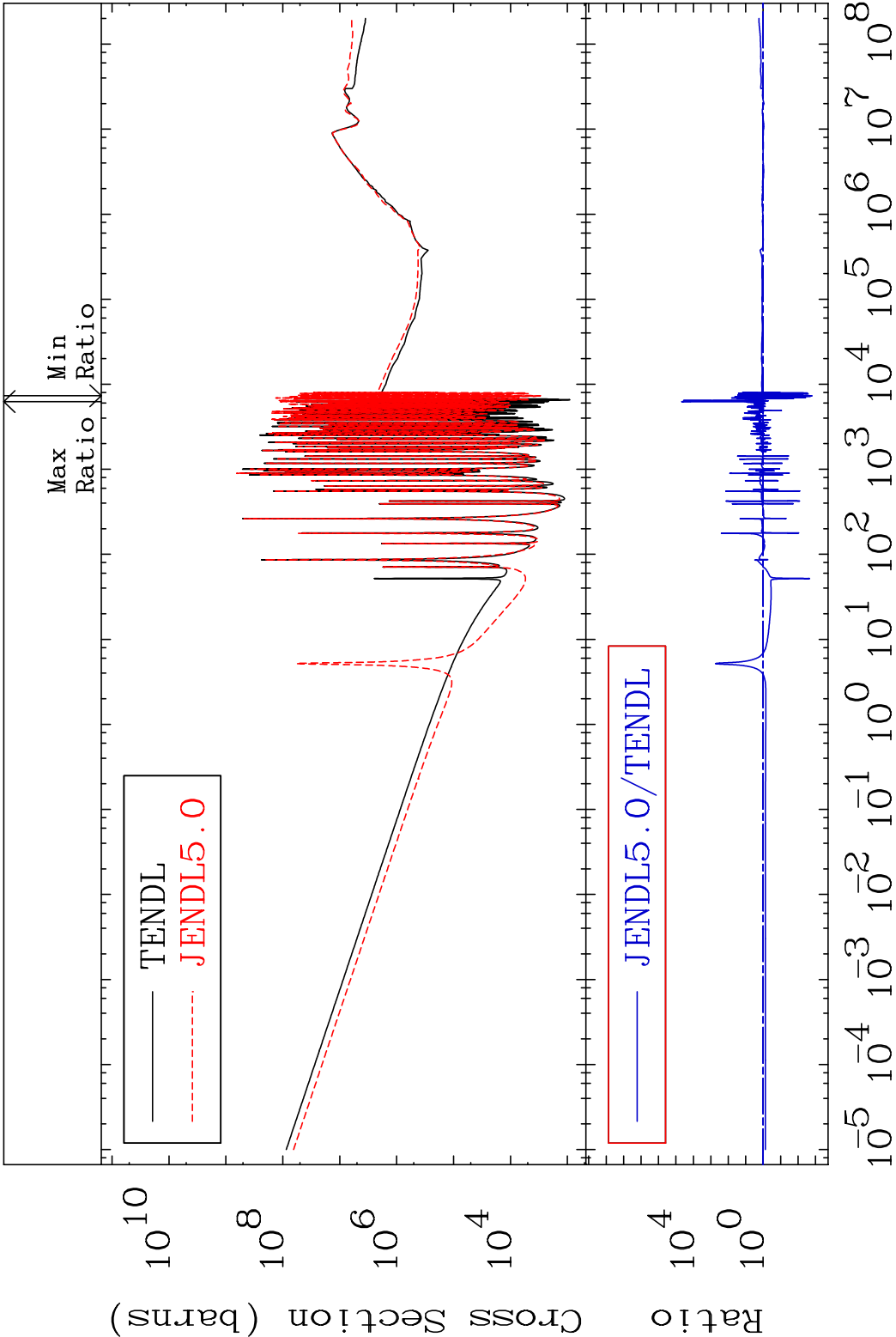


10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

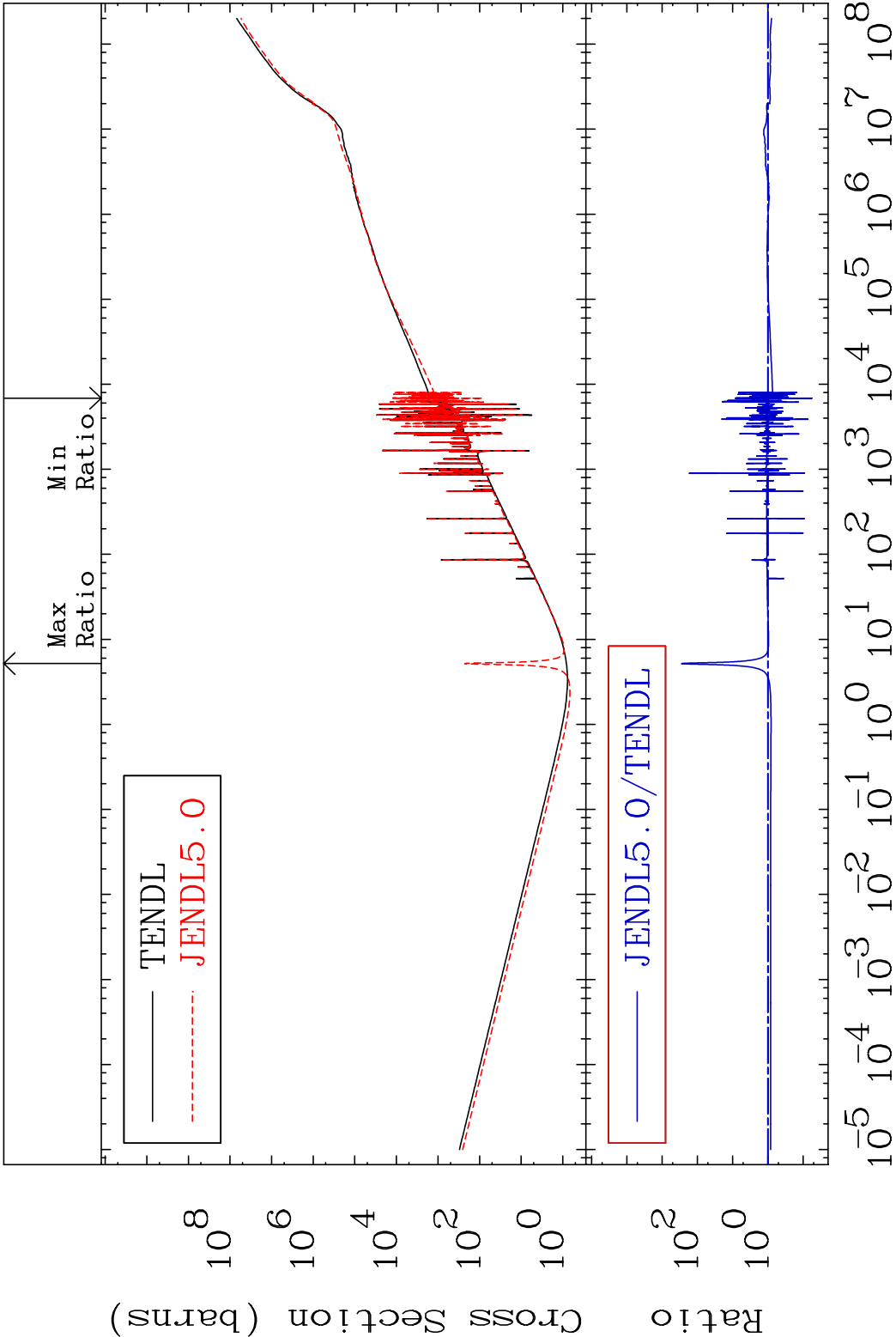
55 Incident Energy (eV) 46-Pd-110



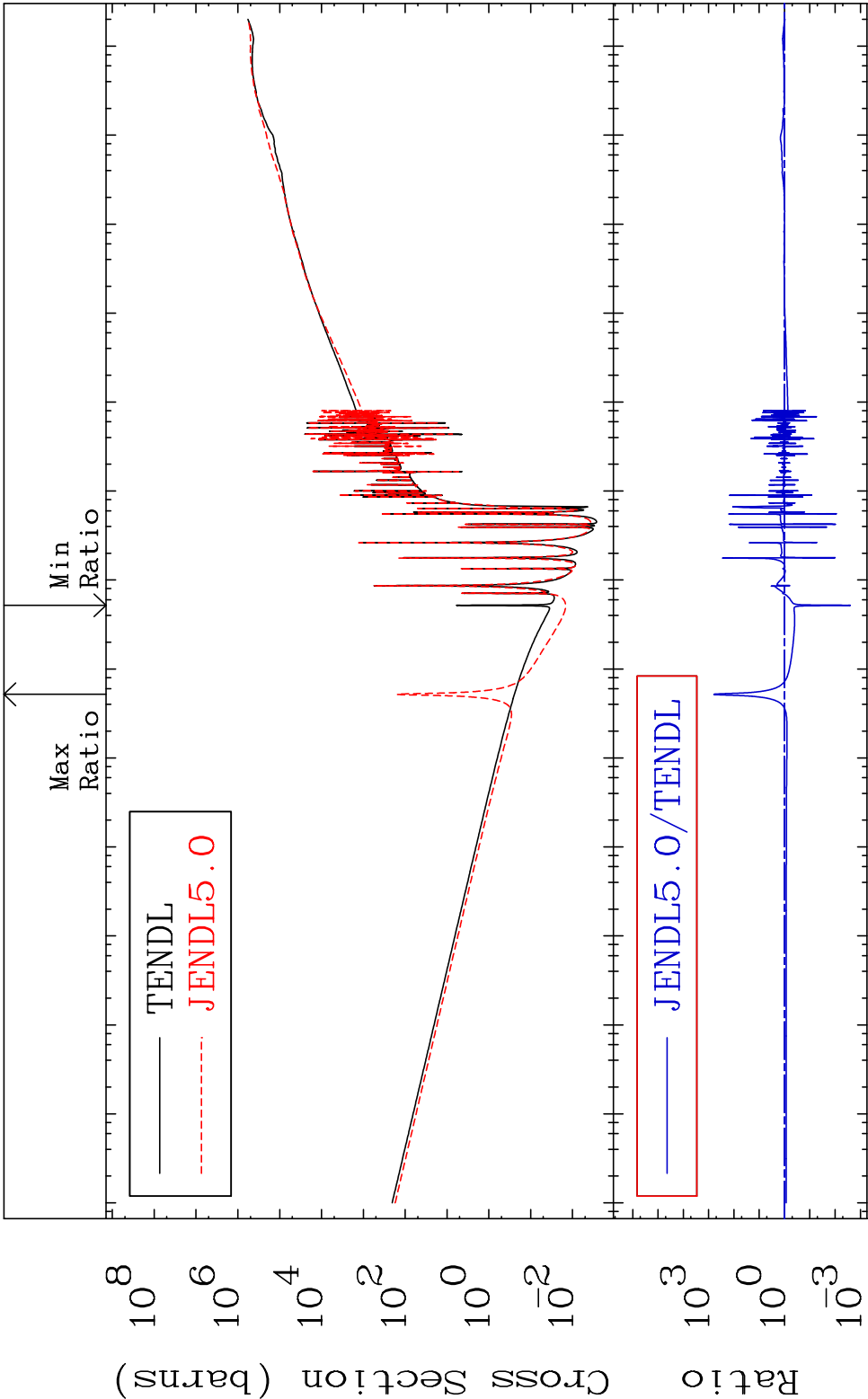
MAT 4649 Total photon (eV-barns) 46-Pd-110
Cross Section -99.85 To 9999. %



57 Incident Energy (eV) 46-Pd-110

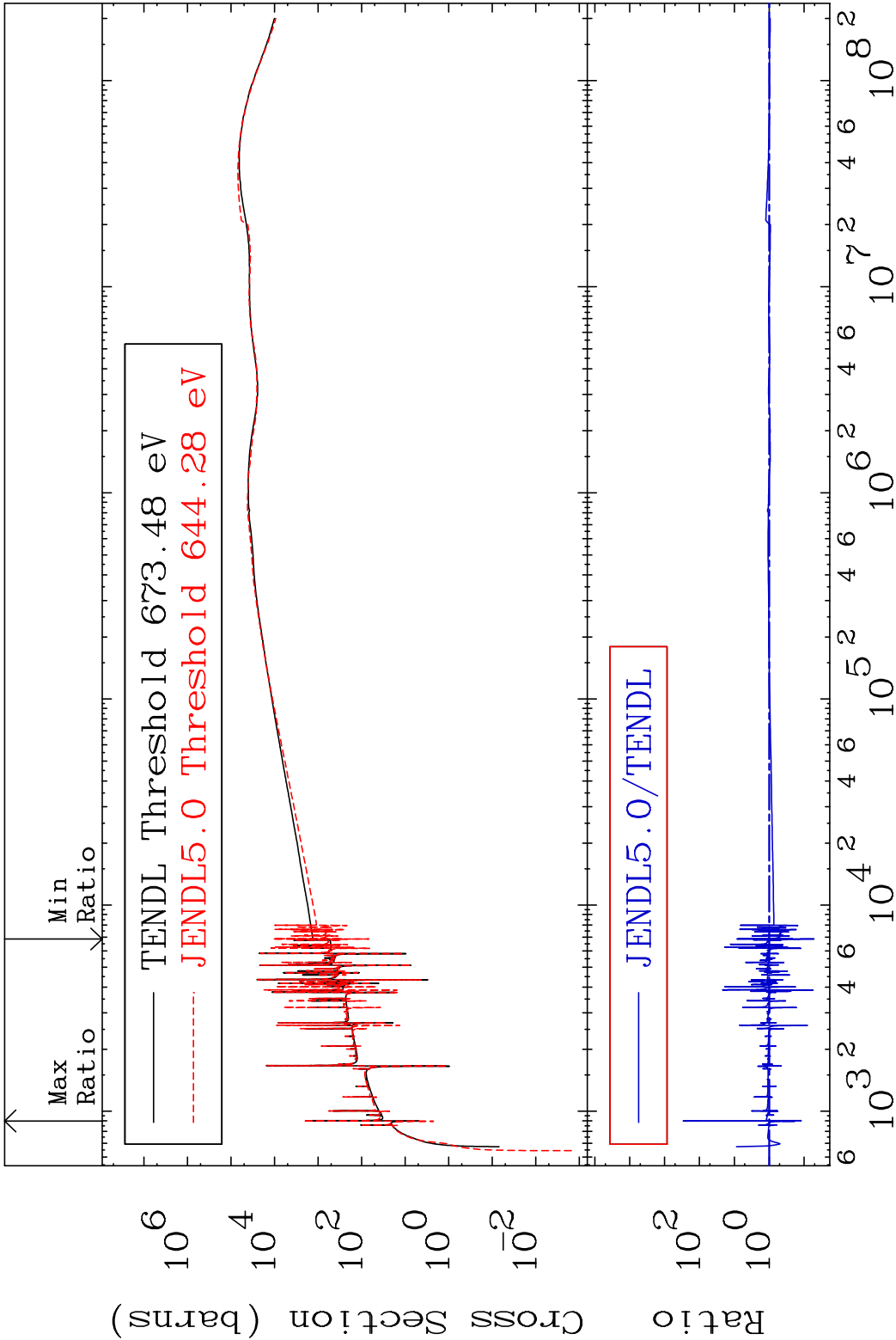


MAT 4649 Dpa total (eV-barns) 46-Pd-110
Cross Section -99.75 To 9999. %

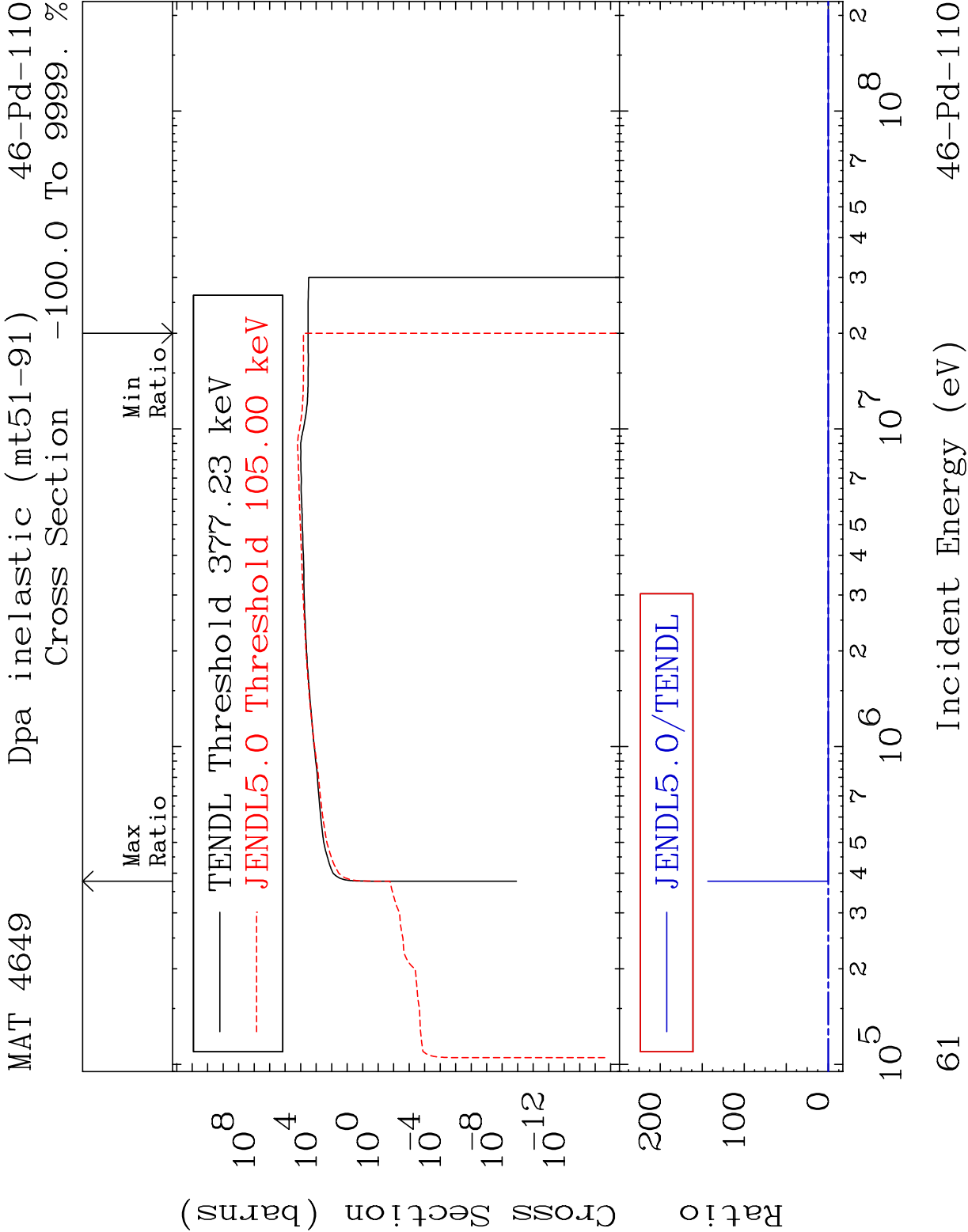


59 Incident Energy (eV) 46-Pd-110

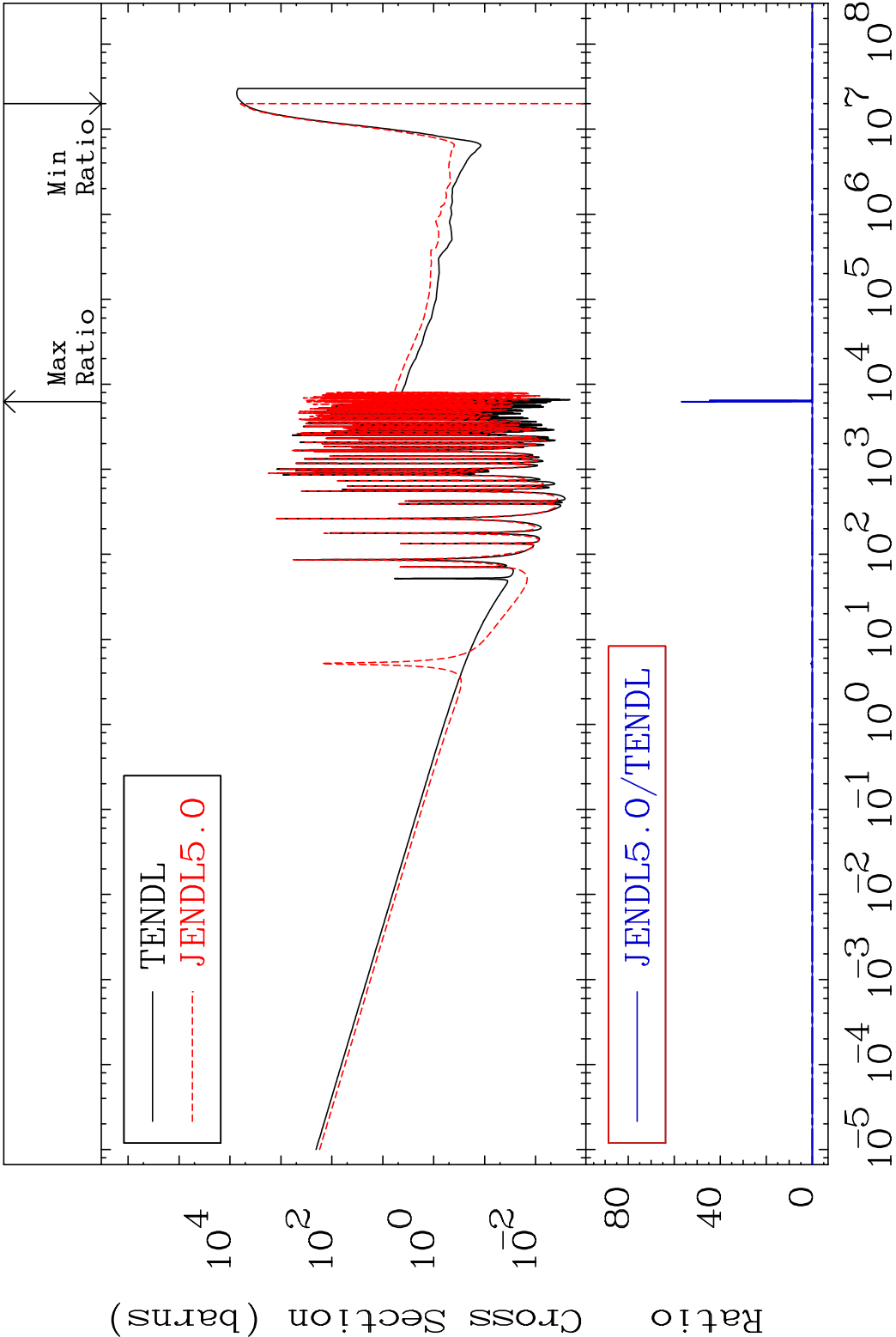
MAT 4649 Dpa elastic (mt2) 46-Pd-110
Cross Section -94.78 To 9999. %



60 Incident Energy (eV) 46-Pd-110

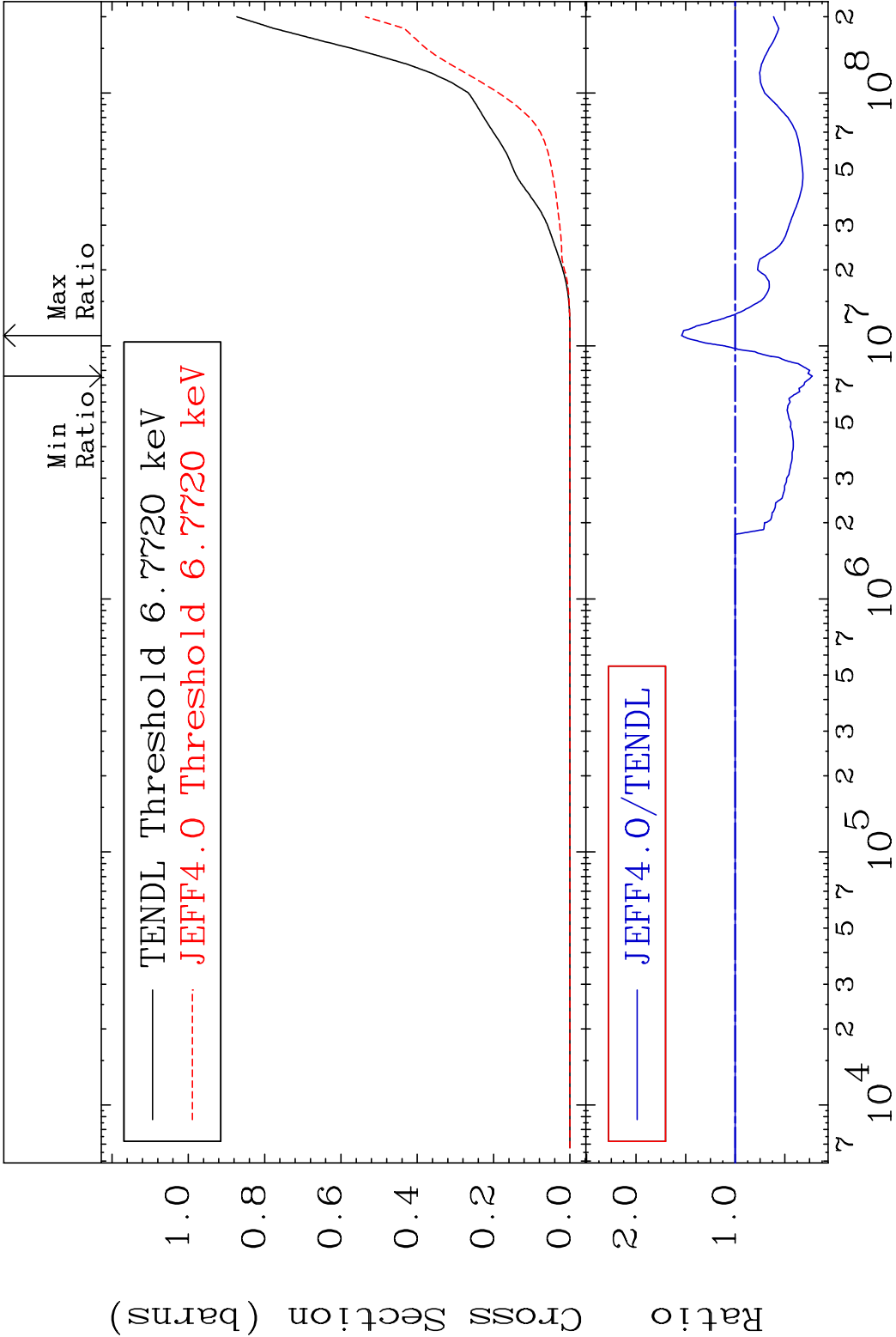


MAT 4649 Dpa disappearance (mt102 -120) 46-Pd-110
Cross Section -100.0 To 9999. %

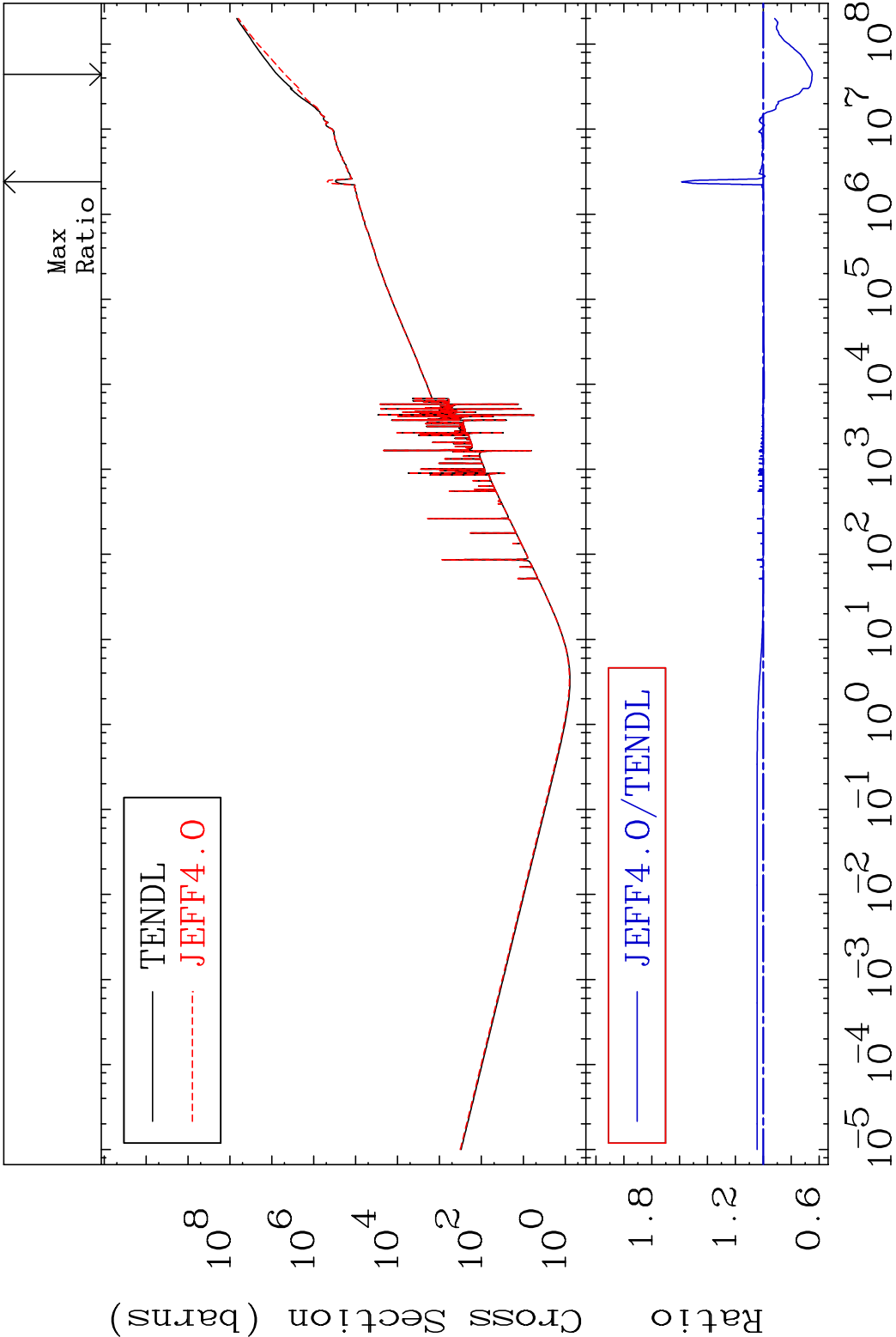


62 Incident Energy (eV) 46-Pd-110

MAT 4649 He-4 Production 46-Pd-110
Cross Section -77.64 To 54.15 %

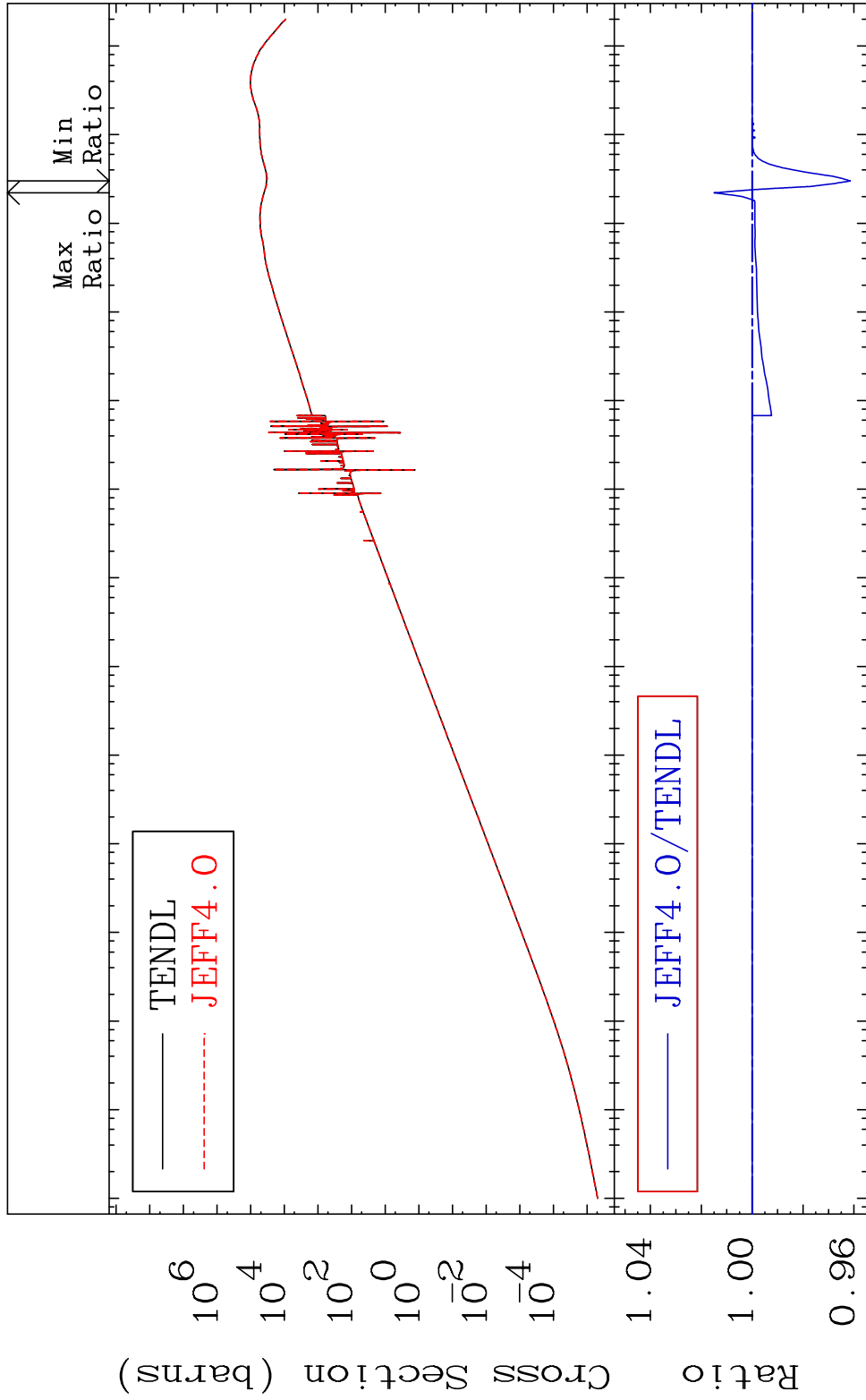


MAT 4649 Kerma total (eV-barns) 46-Pd-110
Cross Section -35.04 To 58.62 %

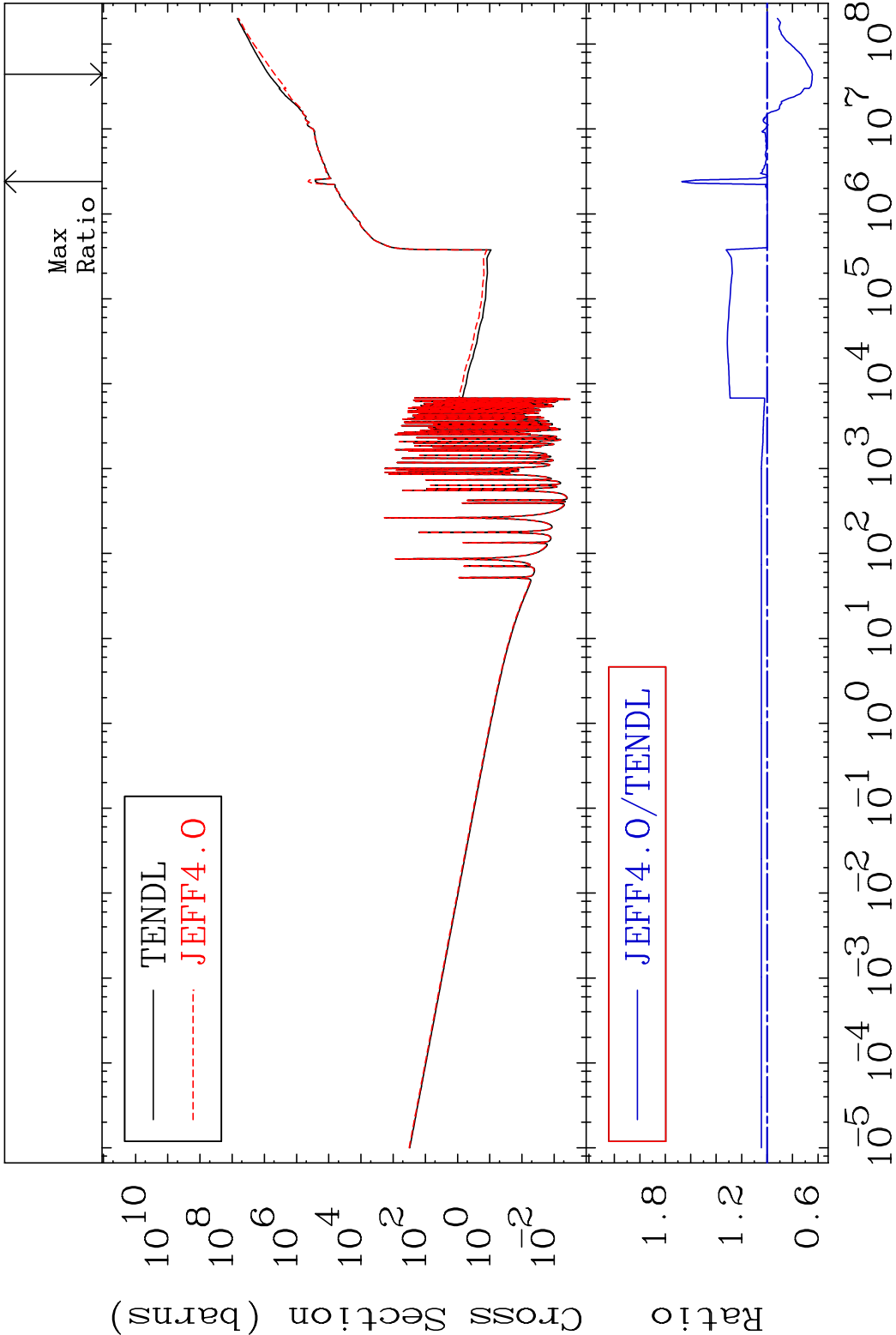


64 Incident Energy (eV) 46-Pd-110

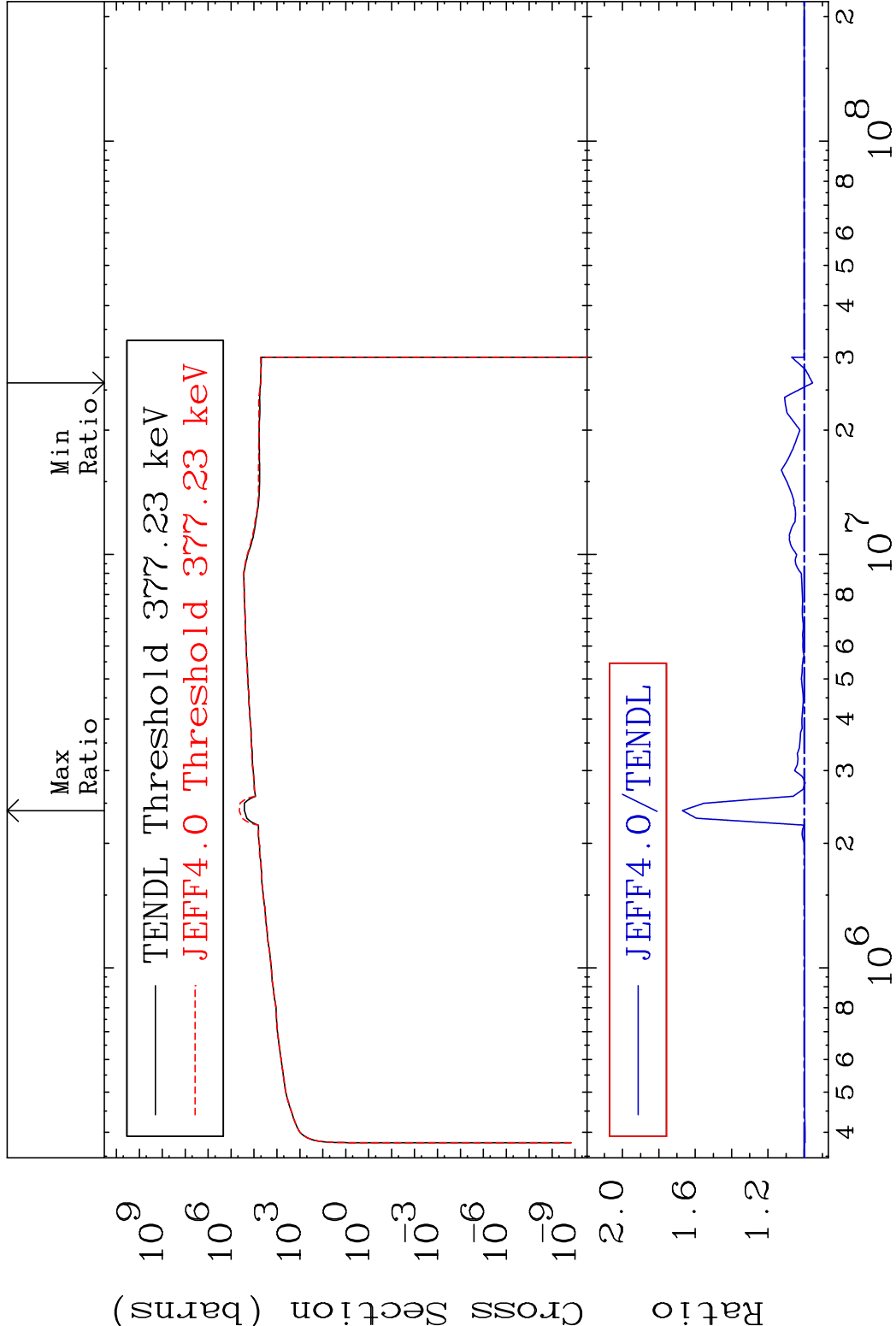
MAT 4649 Kerma elastic 46-Pd-110
Cross Section -3.853 To 1.500 %



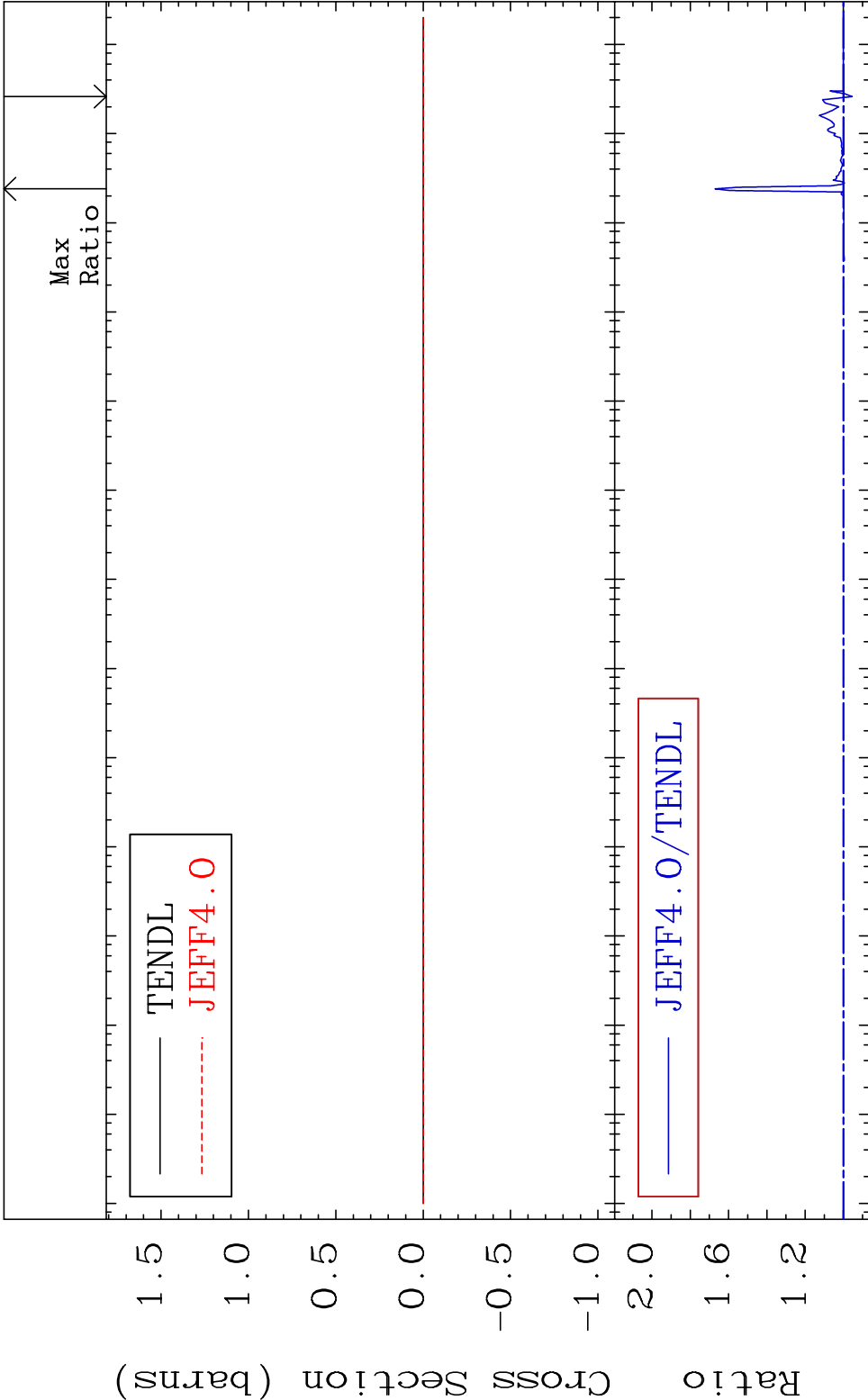
MAT 4649 Kerma non-elastic (all but mt2) 46-Pd-110
 Cross Section -35.52 To 67.06 %



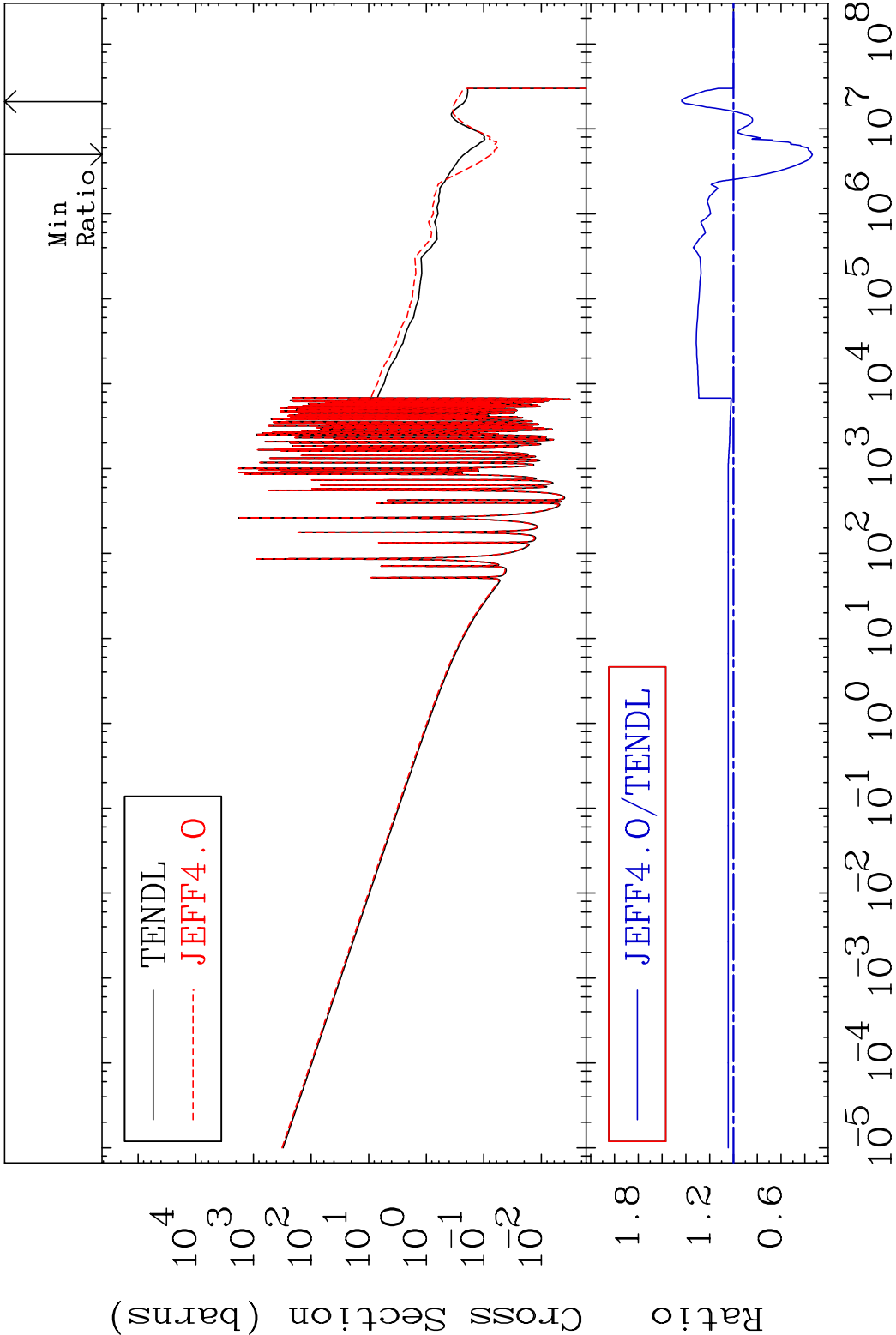
66 Incident Energy (eV) 46-Pd-110



MAT 4649Kerma fission (mt18 or mt19-20-21-38)46-Pd-110
Cross Section -4.559 To 67.06 %



MAT 4649 Kerma capture (mt102) 46-Pd-110
Cross Section -66.26 To 43.49 %



69 Incident Energy (eV) 46-Pd-110

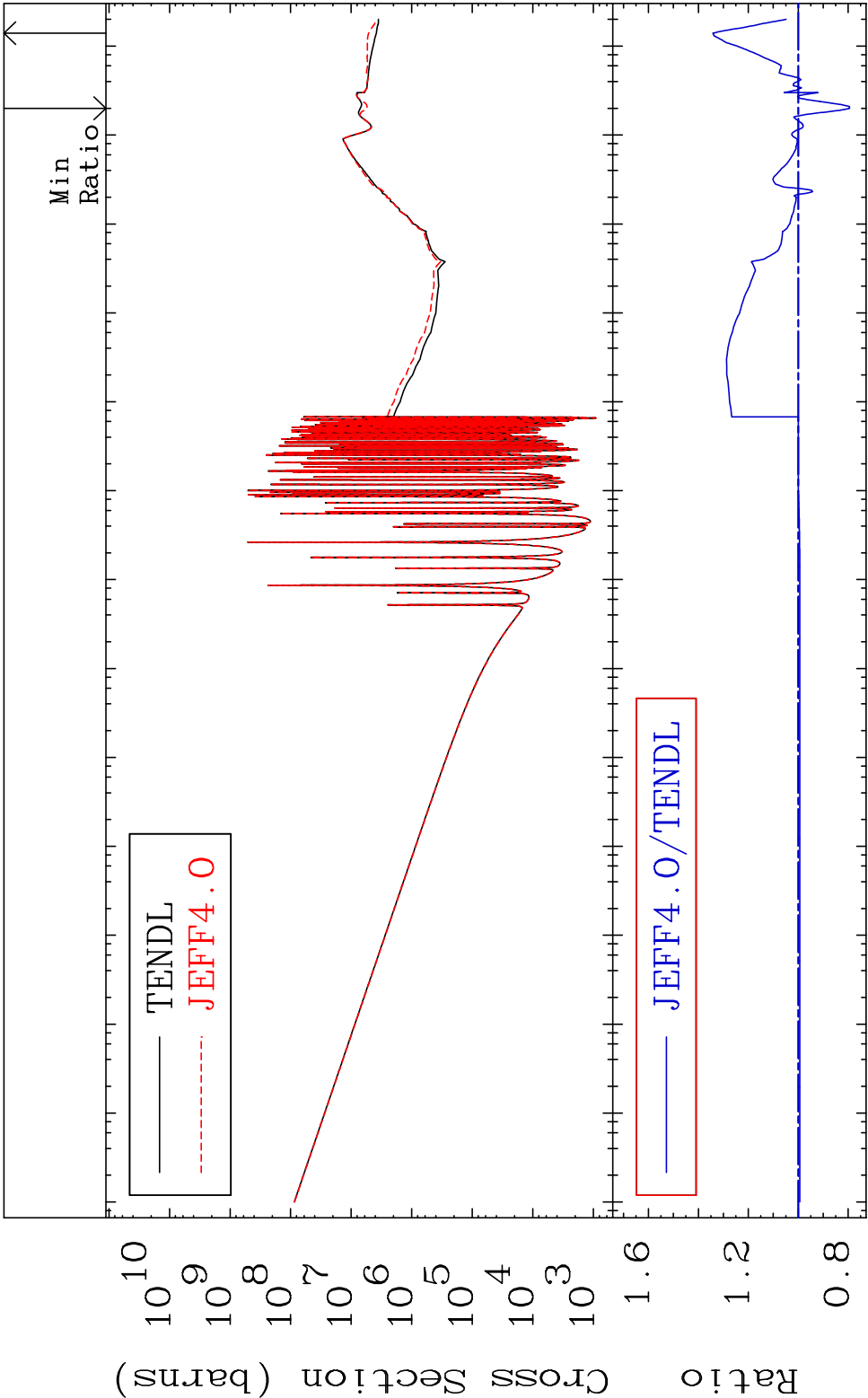
MAT 4649

Total photon (eV-barns)

46-Pd-110

Cross Section

-20.53 To 34.23 %

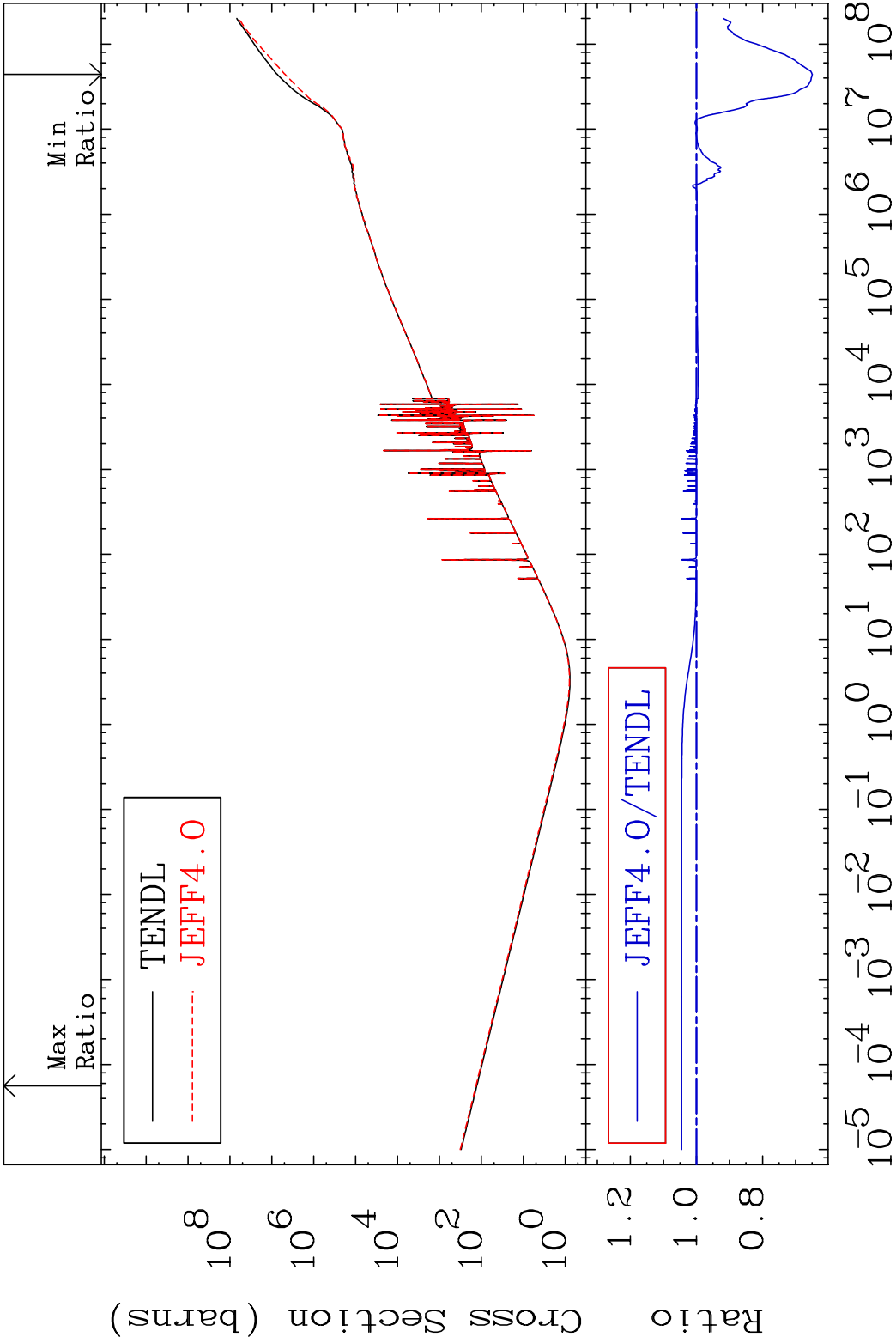


70

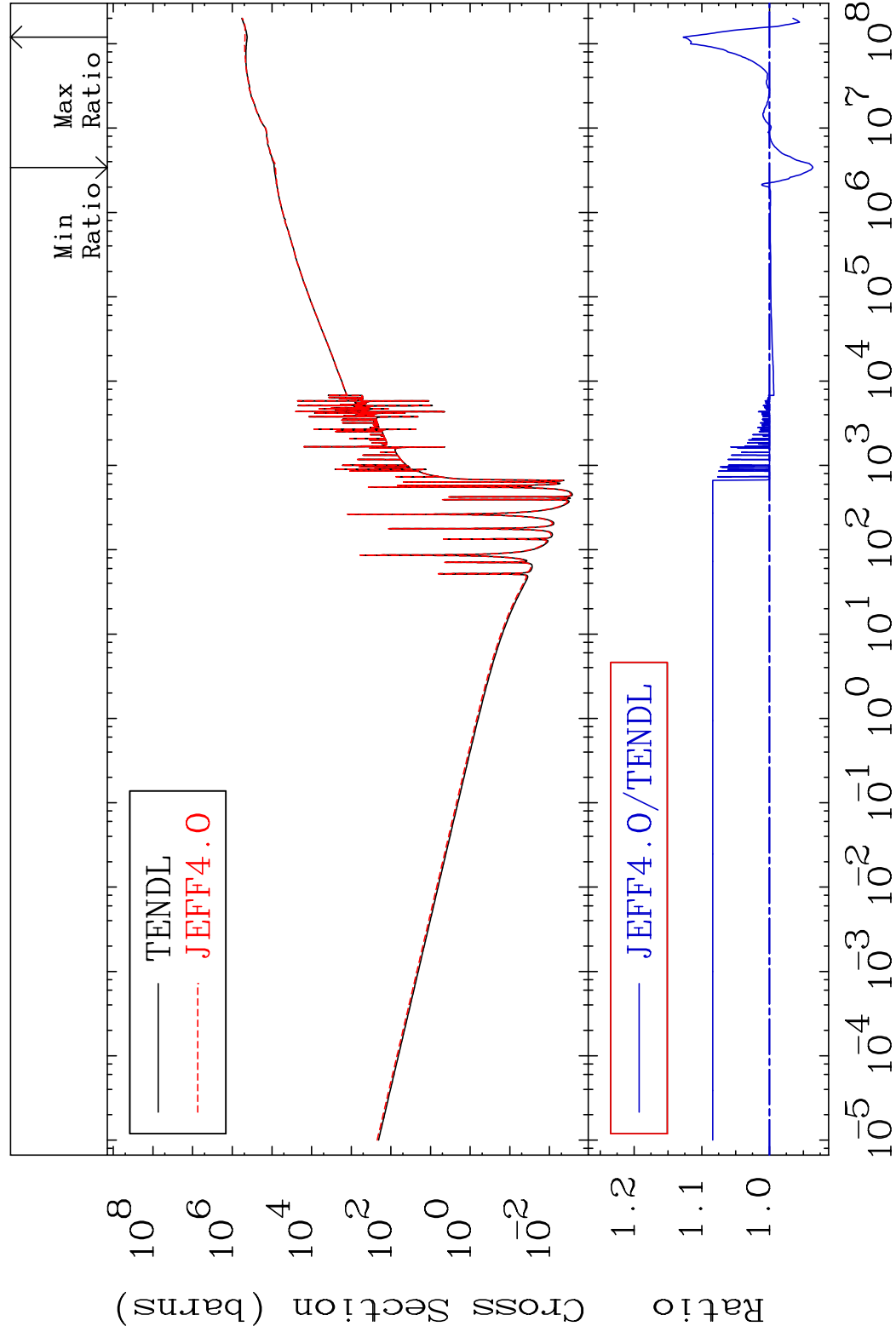
Incident Energy (eV)

46-Pd-110

MAT 4649 Total kinematic kerma (high limit) 46-Pd-110
Cross Section -35.04 To 4.512 %

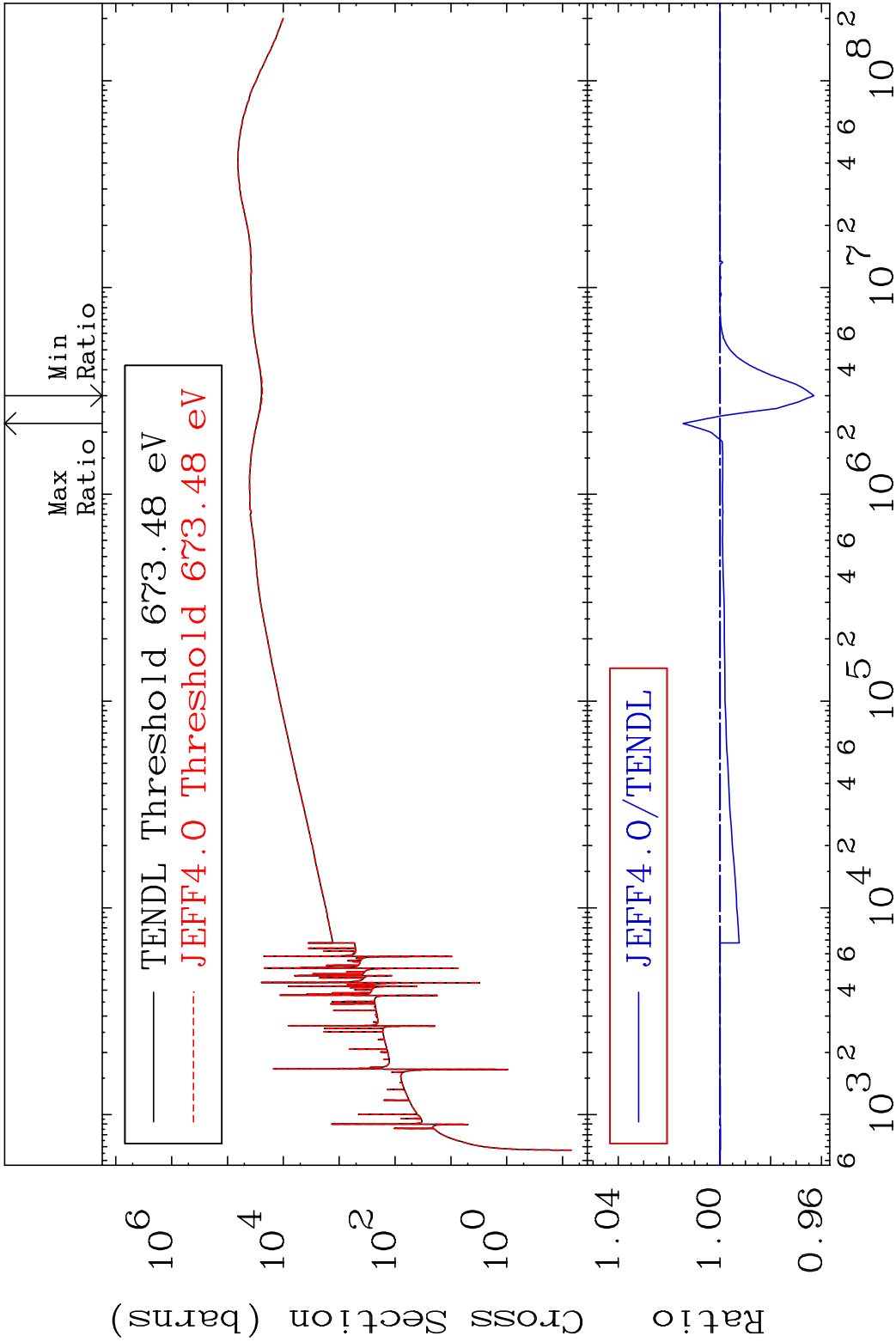


MAT 4649 Dpa total (eV-barns) 46-Pd-110
 Cross Section -6.412 To 12.74 %

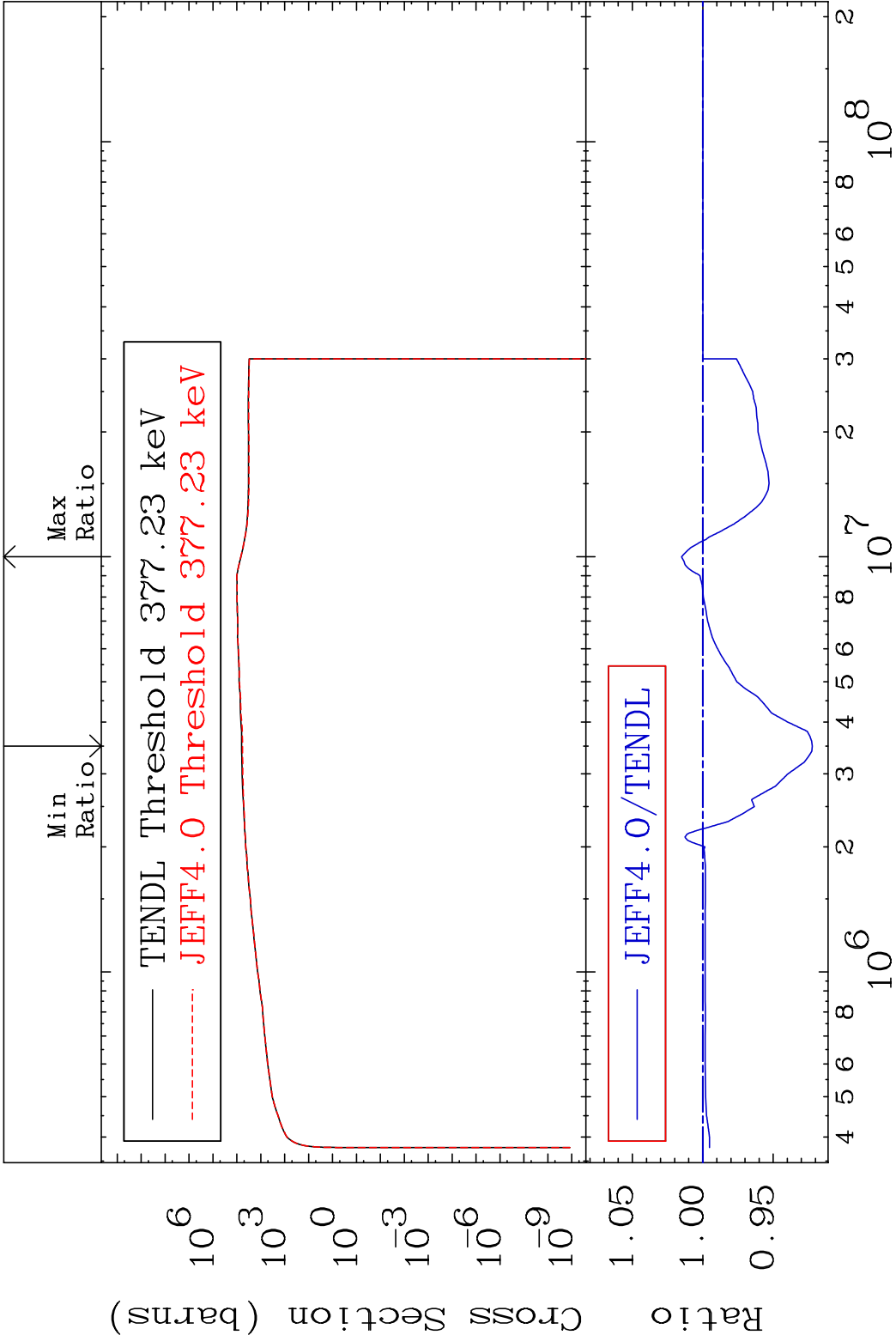


72 Incident Energy (eV) 46-Pd-110

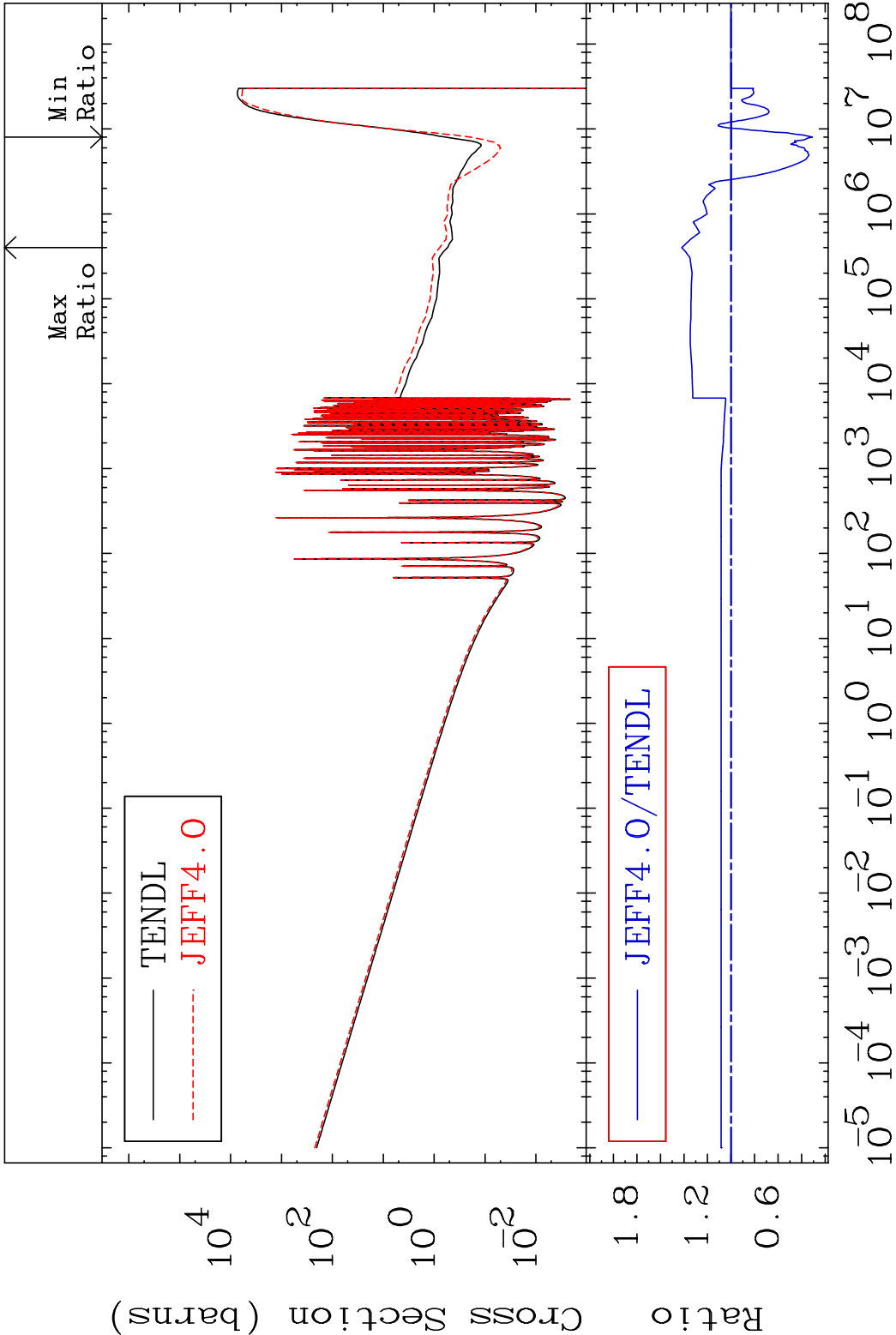
MAT 4649 Dpa elastic (mt2) 46-Pd-110
Cross Section -3.700 To 1.451 %



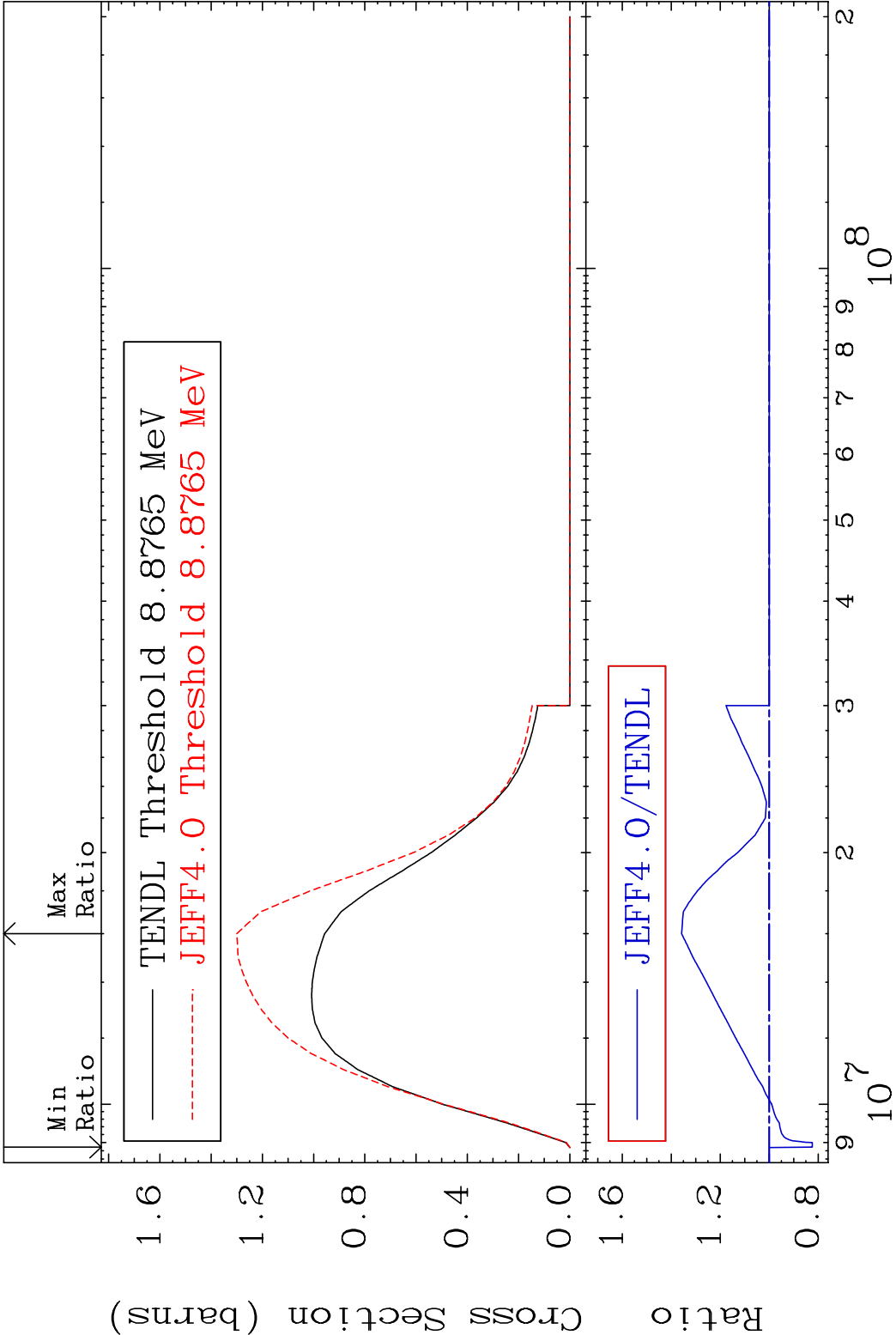
73 Incident Energy (eV) 46-Pd-110

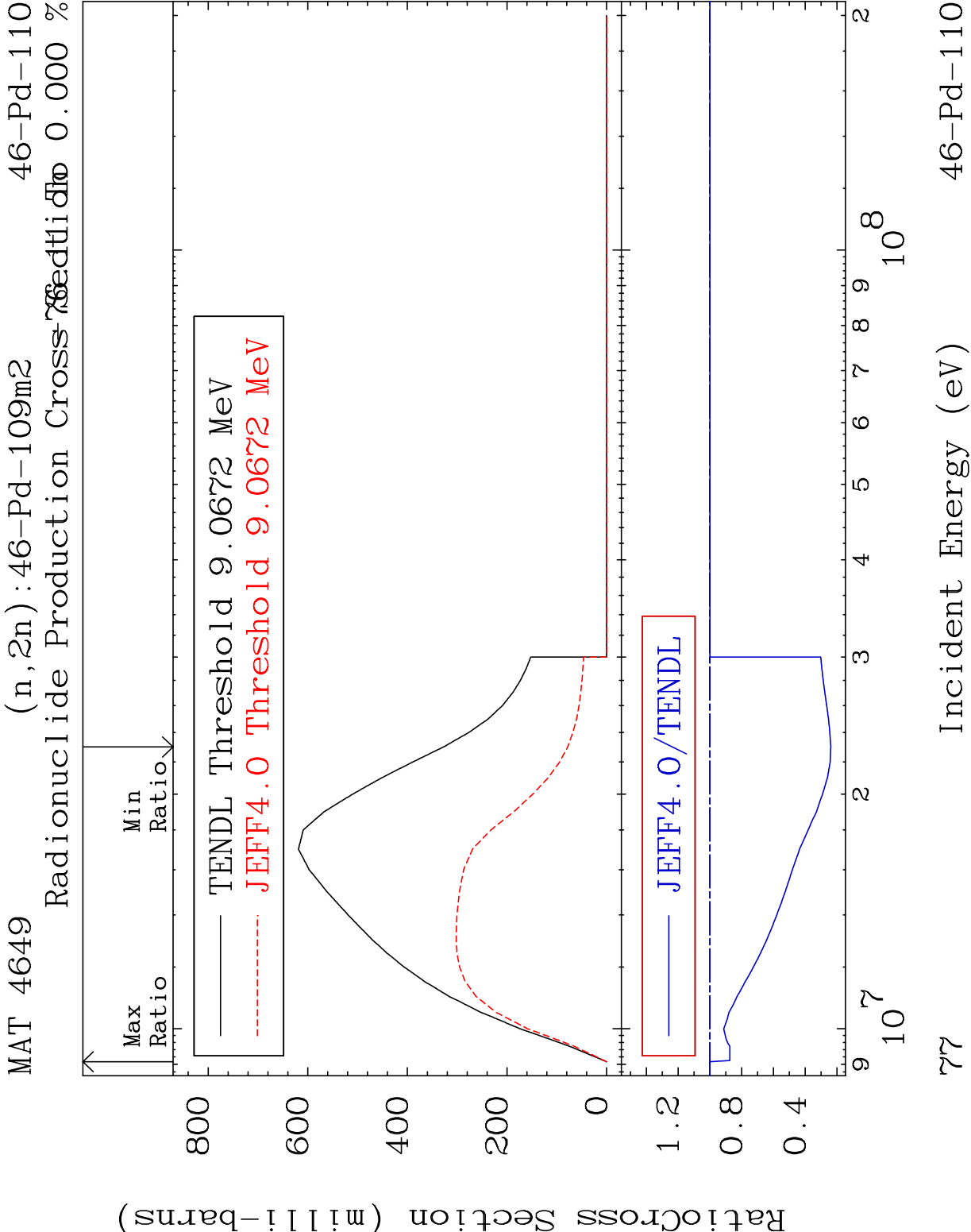


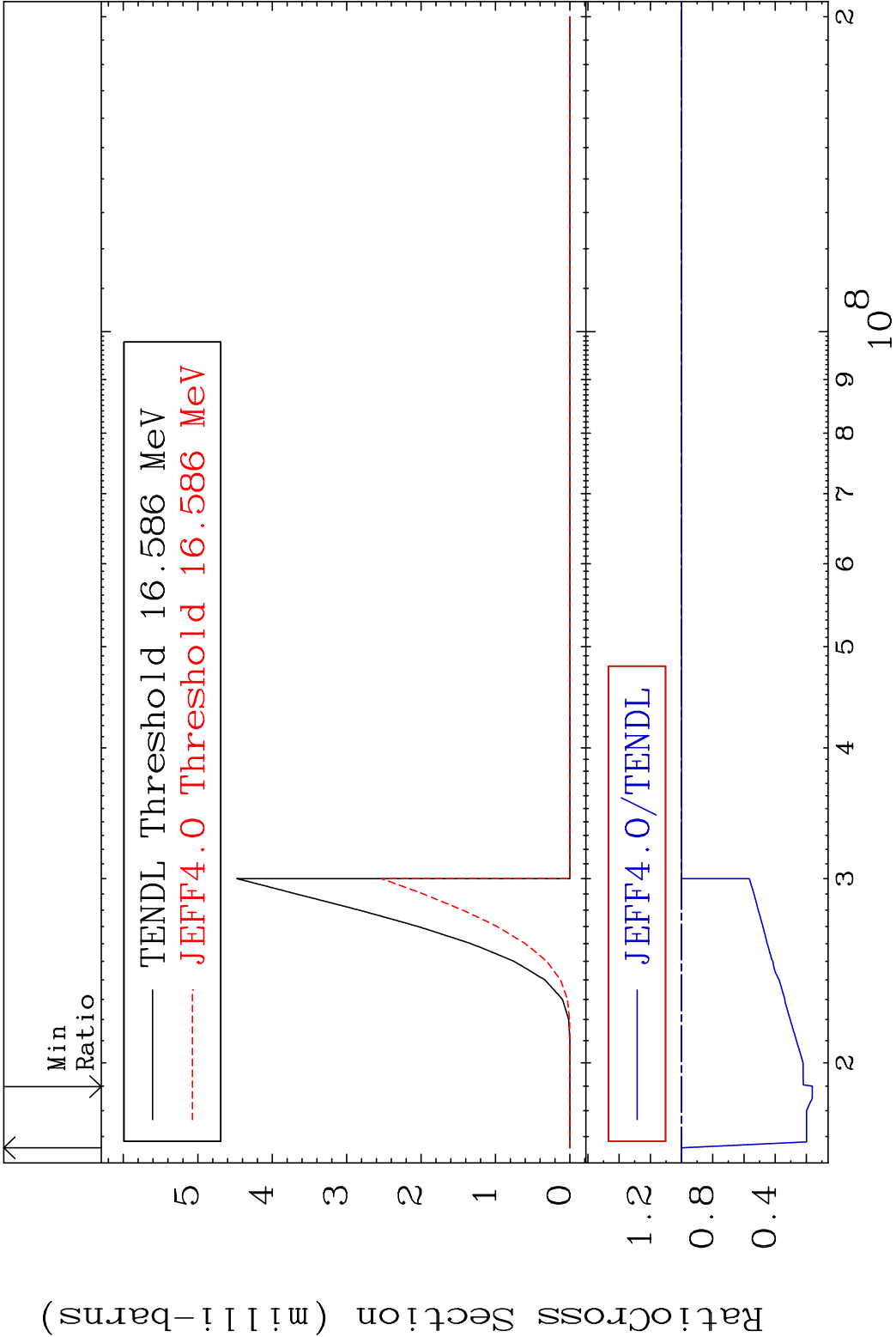
MAT 4649 Dpa disappearance (mt102 -120) 46-Pd-110
Cross Section -69.00 To 41.88 %

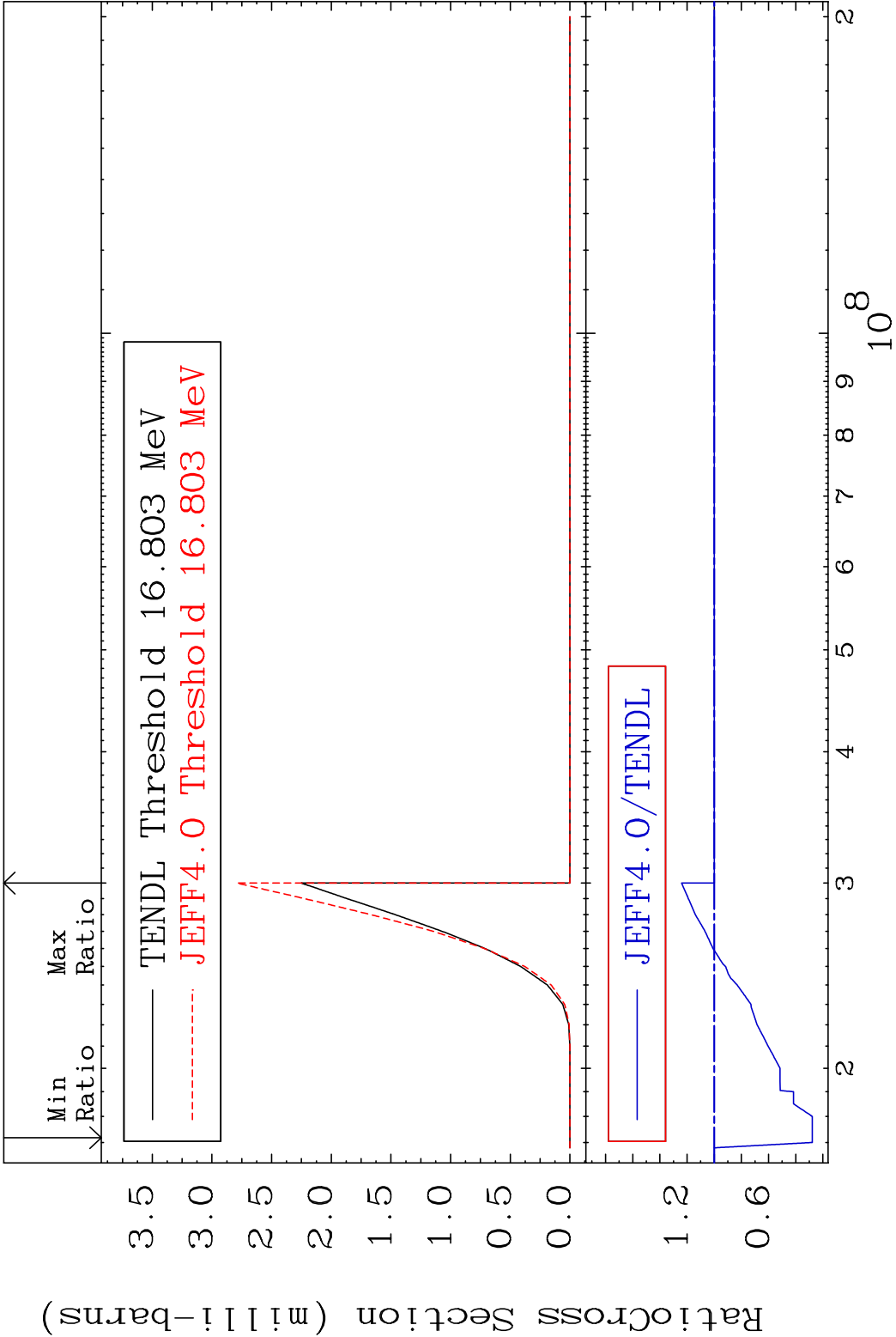


75 Incident Energy (eV) 46-Pd-110

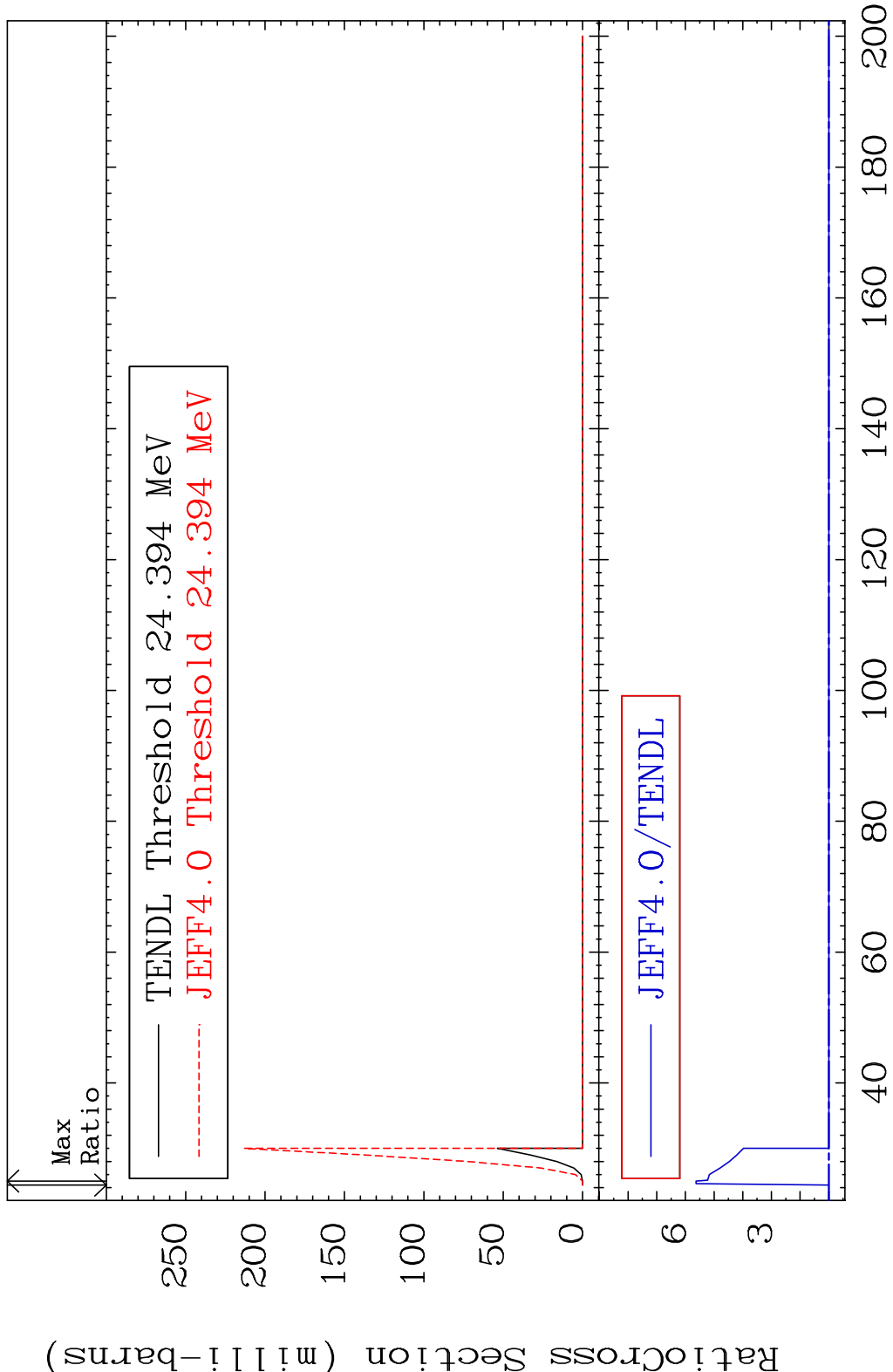




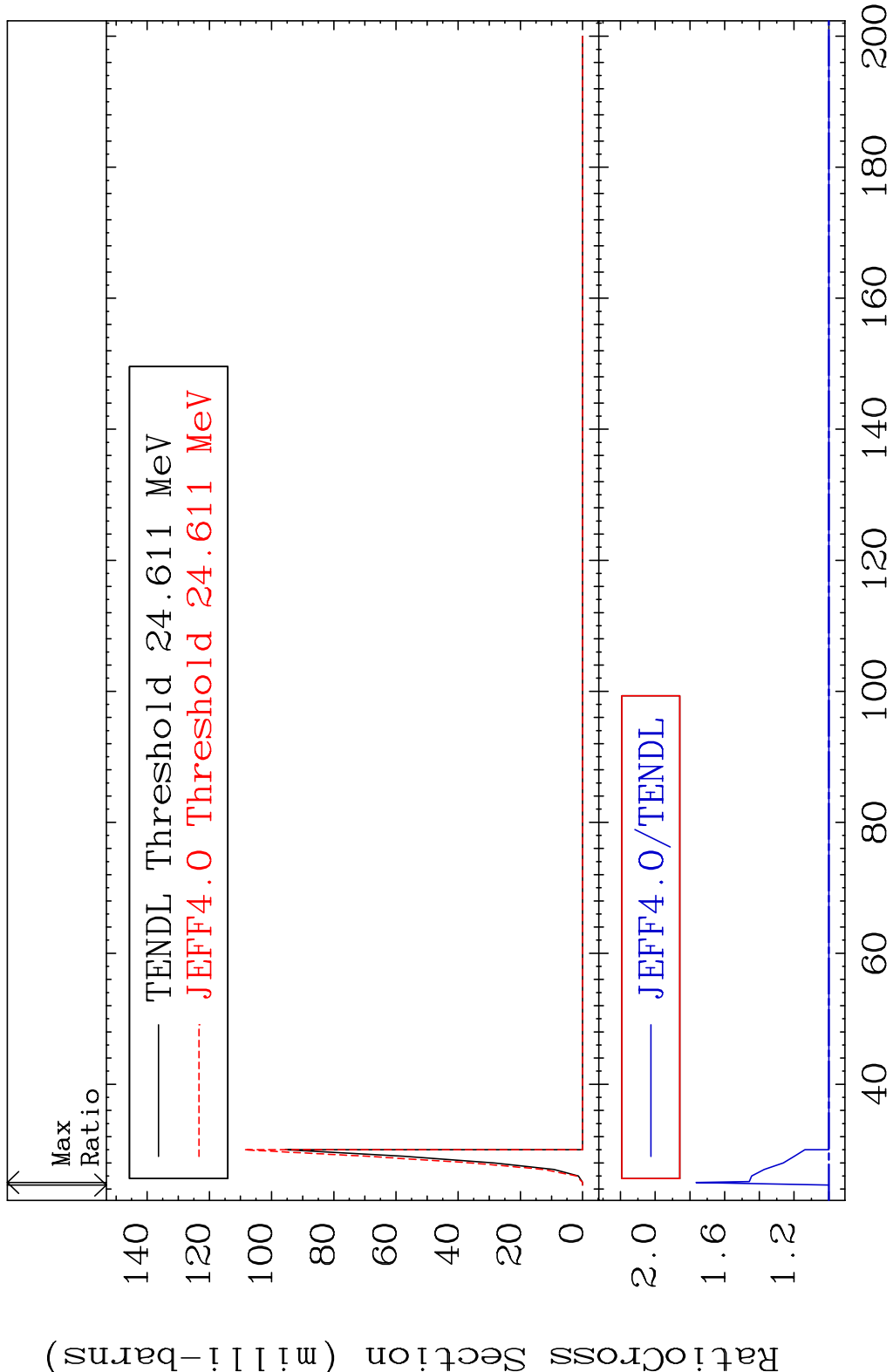


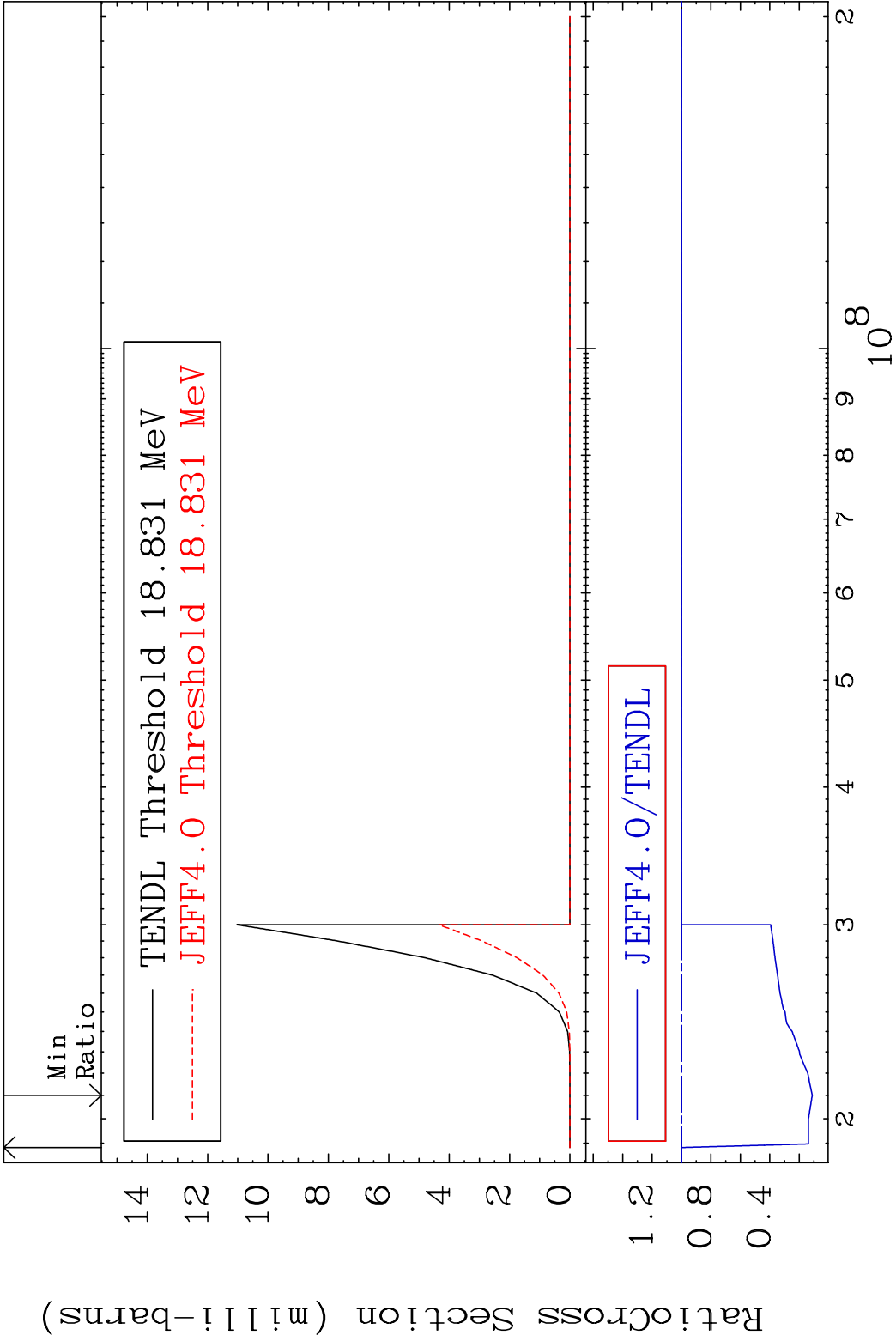


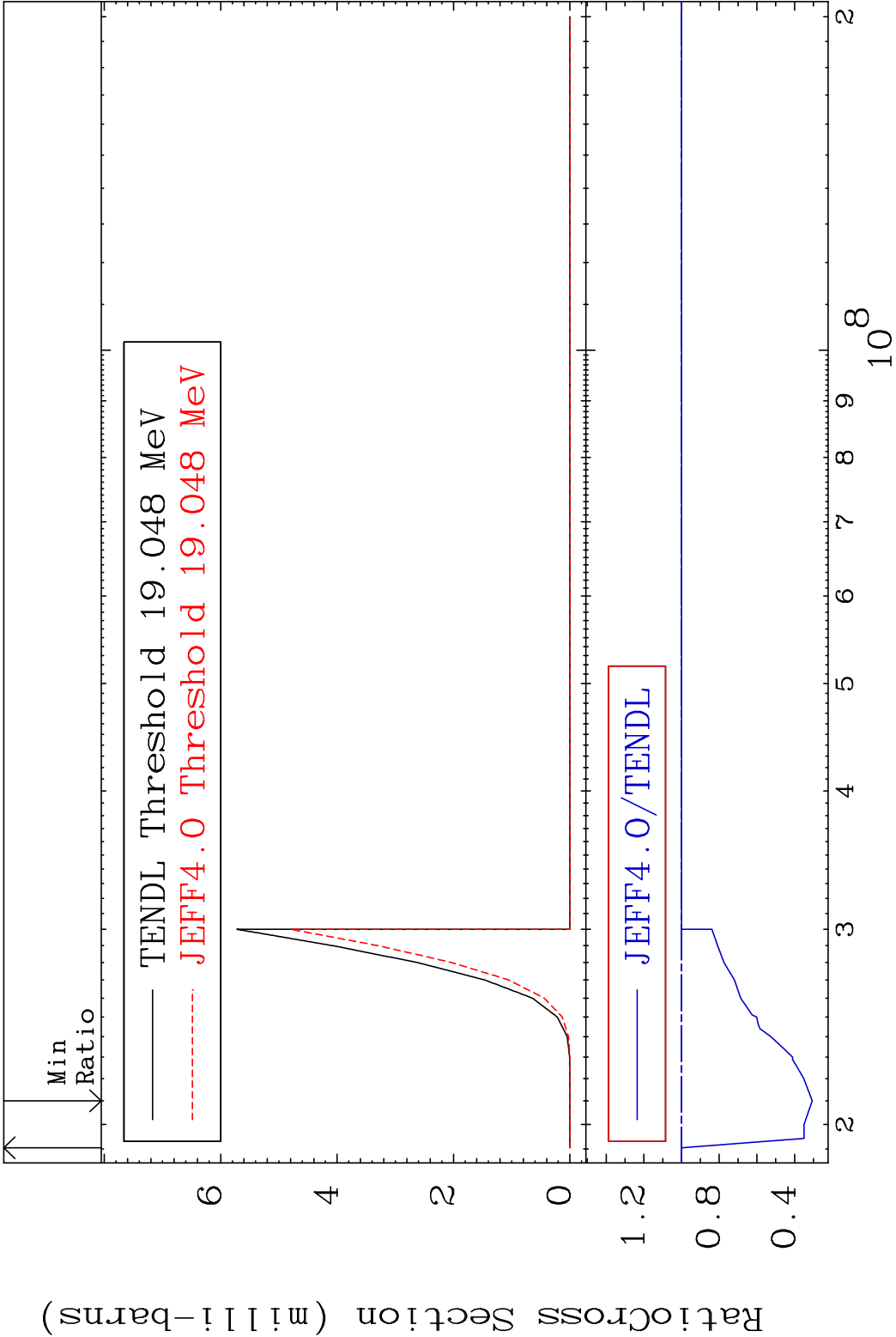
MAT 4649 (n,4n):46-Pd-107g 46-Pd-110
Radionuclide Production Cross Section 463.0 %

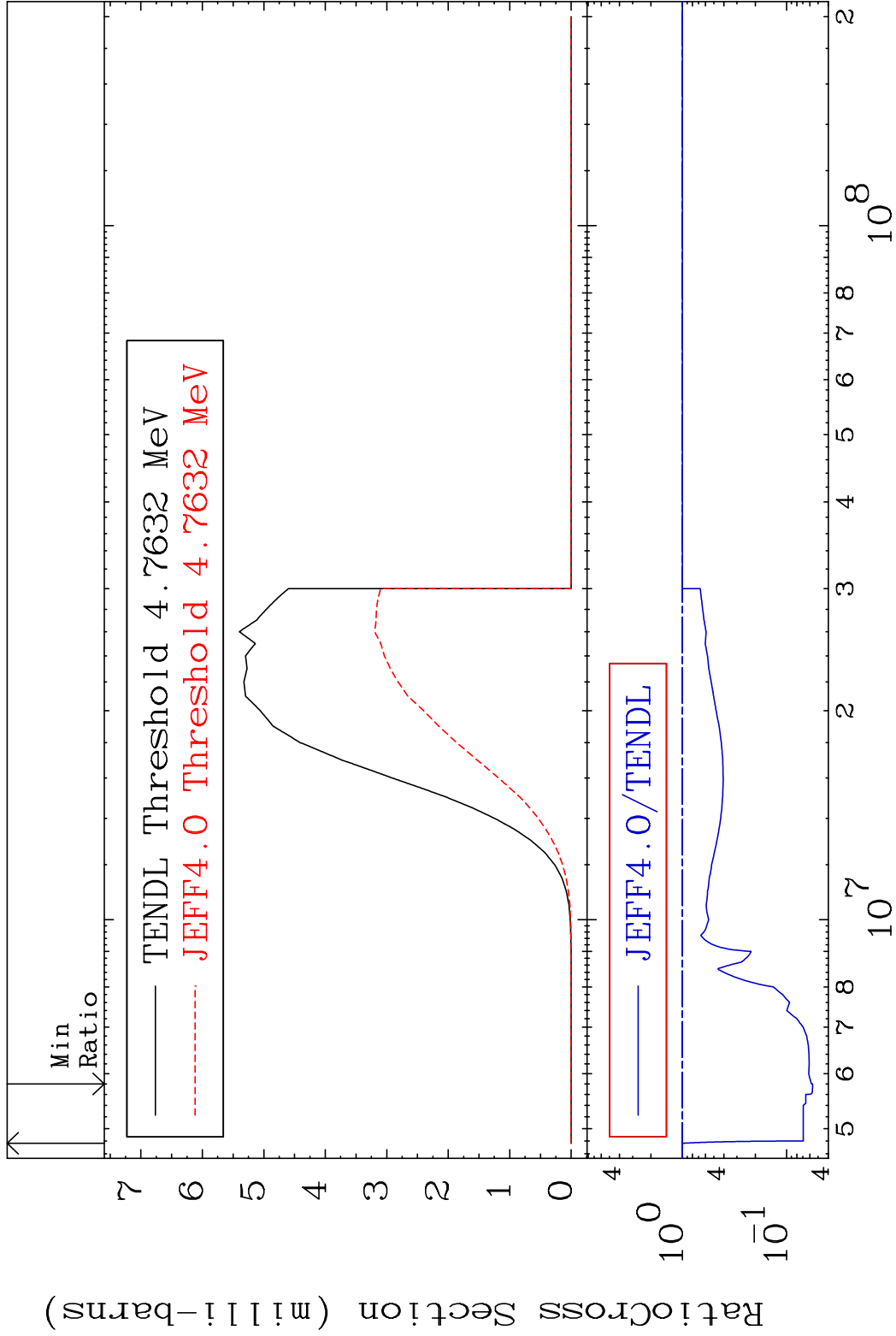


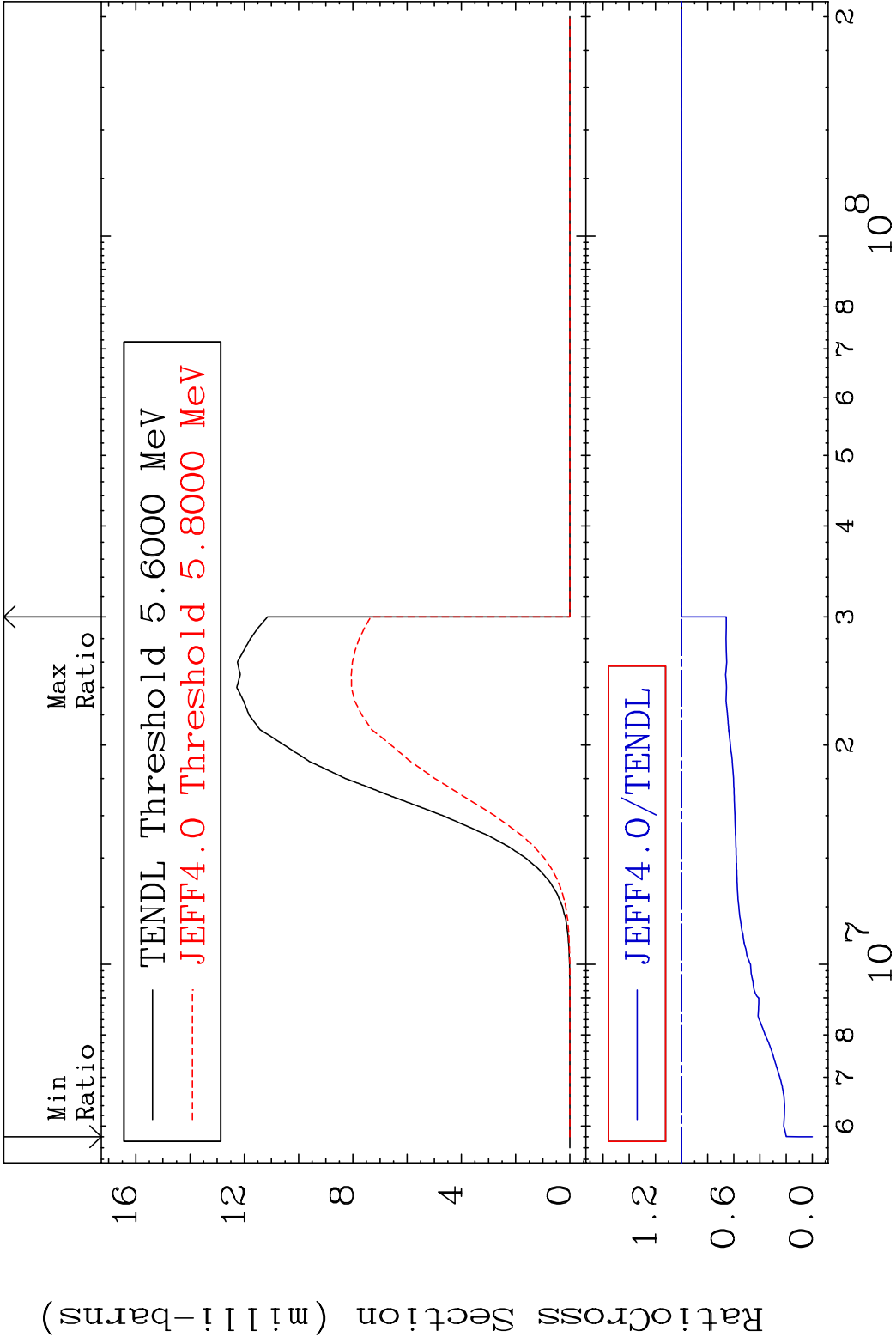
80 Incident Energy (MeV) 46-Pd-110

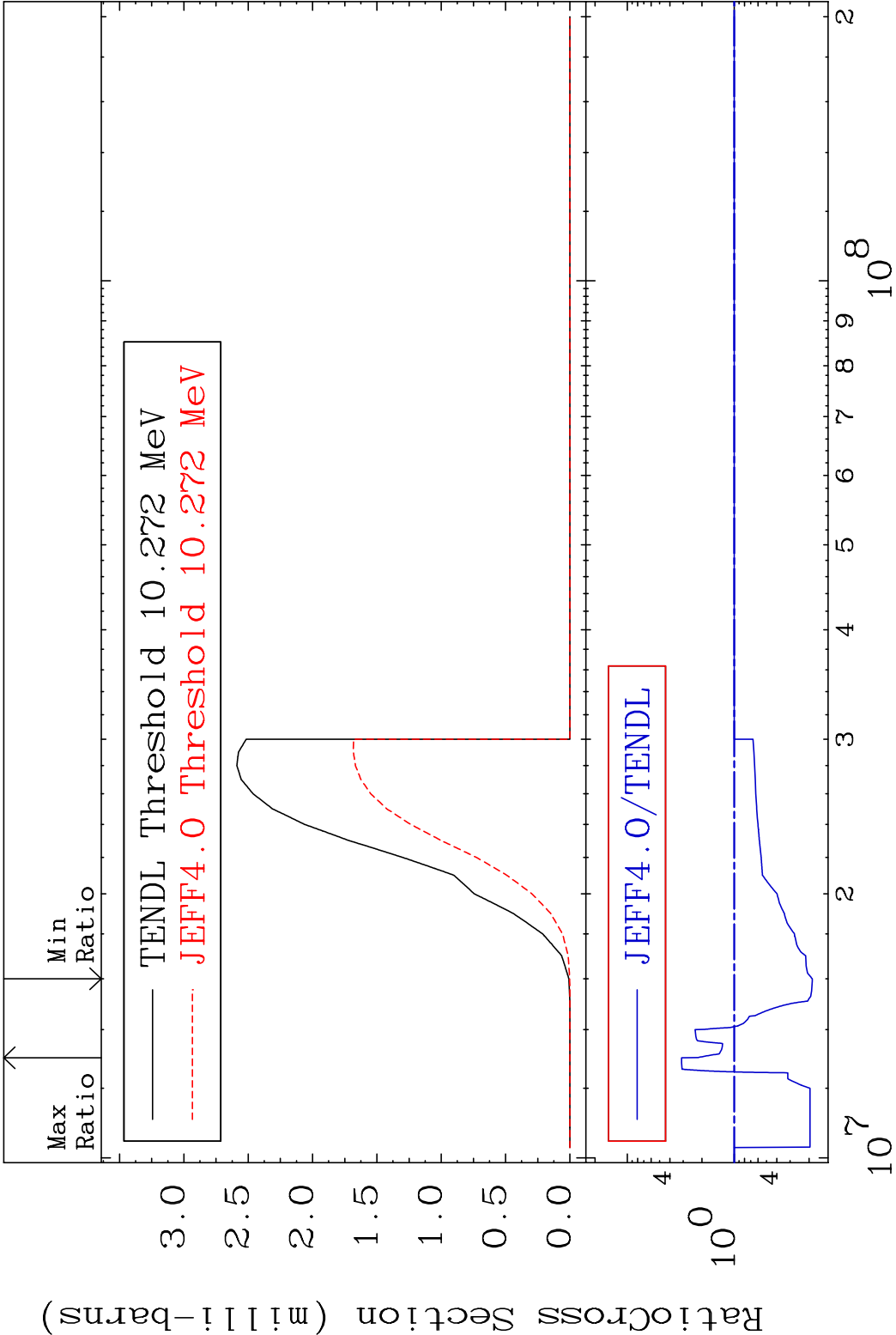












Radionuclide	Production Cross-Section	Decay Mode	Half-life	Activity
^{238}Pu	1.18 barns	α	87.7 years	52.58 %
^{239}Pu	1.18 barns	α	24,110 years	29.88 %
^{240}Pu	0.66 barns	α	14,050 years	29.88 %
^{241}Pu	0.33 barns	β^-	13.26 years	29.88 %
^{242}Pu	0.19 barns	α	373,300 years	29.88 %
^{243}Pu	0.19 barns	β^-	4.95 hours	29.88 %
^{244}Pu	0.19 barns	α	80,000 years	29.88 %
^{245}Pu	0.19 barns	α	16.99 years	29.88 %
^{246}Pu	0.19 barns	α	105,400 years	29.88 %
^{247}Pu	0.19 barns	α	4.7 years	29.88 %
^{248}Pu	0.19 barns	α	81.4 years	29.88 %
^{249}Pu	0.19 barns	β^-	24,110 years	29.88 %
^{250}Pu	0.19 barns	α	22,880 years	29.88 %
^{251}Pu	0.19 barns	β^-	13.26 years	29.88 %
^{252}Pu	0.19 barns	α	132.6 years	29.88 %
^{253}Pu	0.19 barns	β^-	4.95 hours	29.88 %
^{254}Pu	0.19 barns	α	80,000 years	29.88 %
^{255}Pu	0.19 barns	β^-	13.26 years	29.88 %
^{256}Pu	0.19 barns	α	105,400 years	29.88 %
^{257}Pu	0.19 barns	β^-	4.95 hours	29.88 %
^{258}Pu	0.19 barns	α	3.405 years	29.88 %
^{259}Pu	0.19 barns	β^-	13.26 years	29.88 %
^{260}Pu	0.19 barns	α	105,400 years	29.88 %
^{261}Pu	0.19 barns	β^-	13.26 years	29.88 %
^{262}Pu	0.19 barns	α	105,400 years	29.88 %
^{263}Pu	0.19 barns	β^-	13.26 years	29.88 %
^{264}Pu	0.19 barns	α	105,400 years	29.88 %
^{265}Pu	0.19 barns	β^-	13.26 years	29.88 %
^{266}Pu	0.19 barns	α	105,400 years	29.88 %
^{267}Pu	0.19 barns	β^-	13.26 years	29.88 %
^{268}Pu	0.19 barns	α	105,400 years	29.88 %
^{269}Pu	0.19 barns	β^-	13.26 years	29.88 %
^{270}Pu	0.19 barns	α	105,400 years	29.88 %
^{271}Pu	0.19 barns	β^-	13.26 years	29.88 %
^{272}Pu	0.19 barns	α	105,400 years	29.88 %
^{273}Pu	0.19 barns	β^-	13.26 years	29.88 %
^{274}Pu	0.19 barns	α	105,400 years	29.88 %
^{275}Pu	0.19 barns	β^-	13.26 years	29.88 %
^{276}Pu	0.19 barns	α	105,400 years	29.88 %
^{277}Pu	0.19 barns	β^-	13.26 years	29.88 %
^{278}Pu	0.19 barns	α	105,400 years	29.88 %
^{279}Pu	0.19 barns	β^-	13.26 years	29.88 %
^{280}Pu	0.19 barns	α	105,400 years	29.88 %
^{281}Pu	0.19 barns	β^-	13.26 years	29.88 %
^{282}Pu	0.19 barns	α	105,400 years	29.88 %
^{283}Pu	0.19 barns	β^-	13.26 years	29.88 %
^{284}Pu	0.19 barns	α	105,400 years	29.88 %
^{285}Pu	0.19 barns	β^-	13.26 years	29.88 %
^{286}Pu	0.19 barns	α	105,400 years	29.88 %
^{287}Pu	0.19 barns	β^-	13.26 years	29.88 %
^{288}Pu	0.19 barns	α	105,400 years	29.88 %
^{289}Pu	0.19 barns	β^-	13.26 years	29.88 %
^{290}Pu	0.19 barns	α	105,400 years	29.88 %
^{291}Pu	0.19 barns	β^-	13.26 years	29.88 %
^{292}Pu	0.19 barns	α	105,400 years	29.88 %

