

Program Complot
(Version 2015-2)

by

Dermott E. Cullen
(Present Contact Information)

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

Tele: 925-443-1911

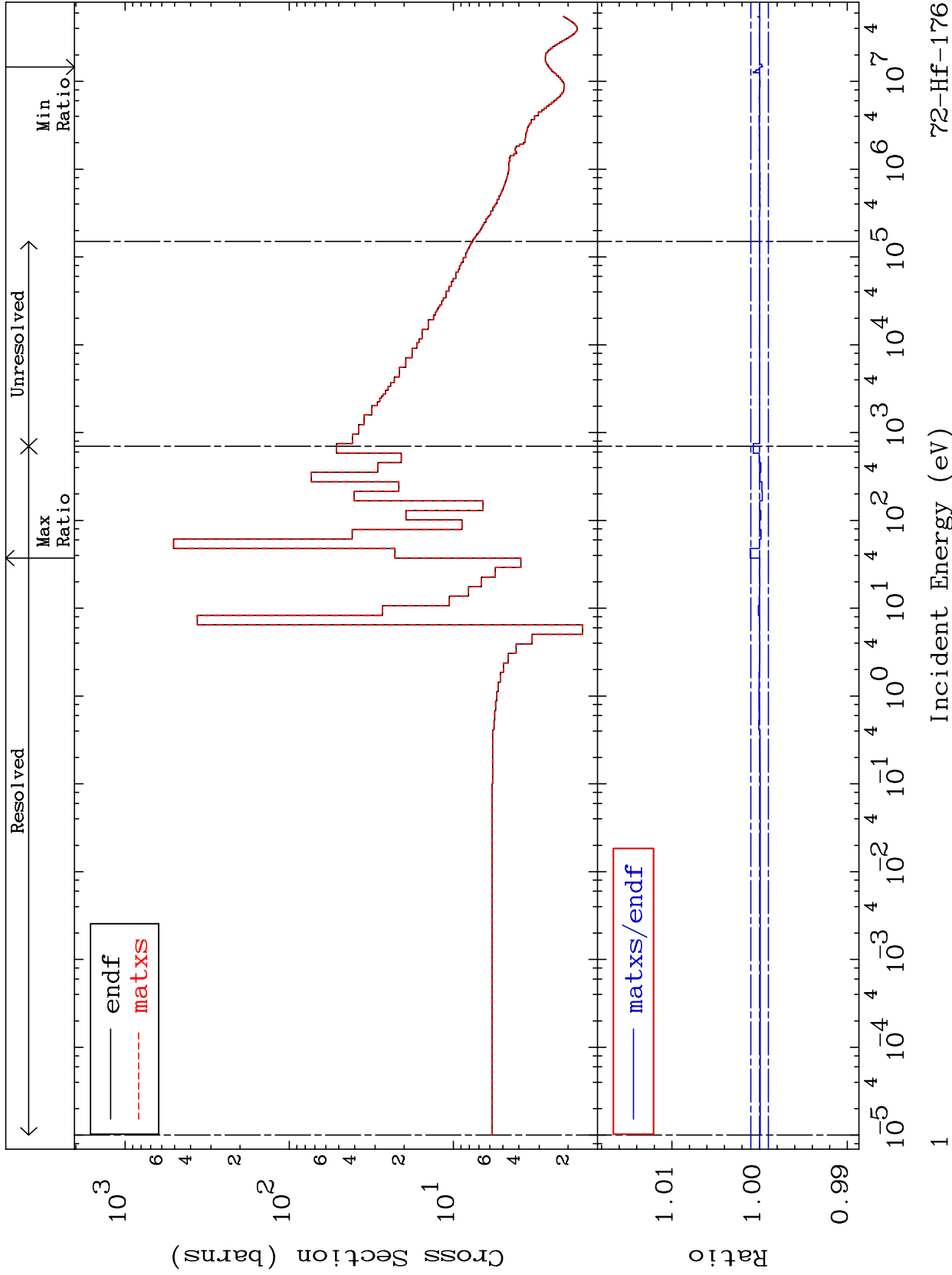
E.Mail: redcullen1@comcast.net
Web: home.comcast.net/~redcullen1

Press Mouse Button to Start

MAT 7231

Elastic
Cross Section

72-Hf-176
-0.032 To 0.108 %

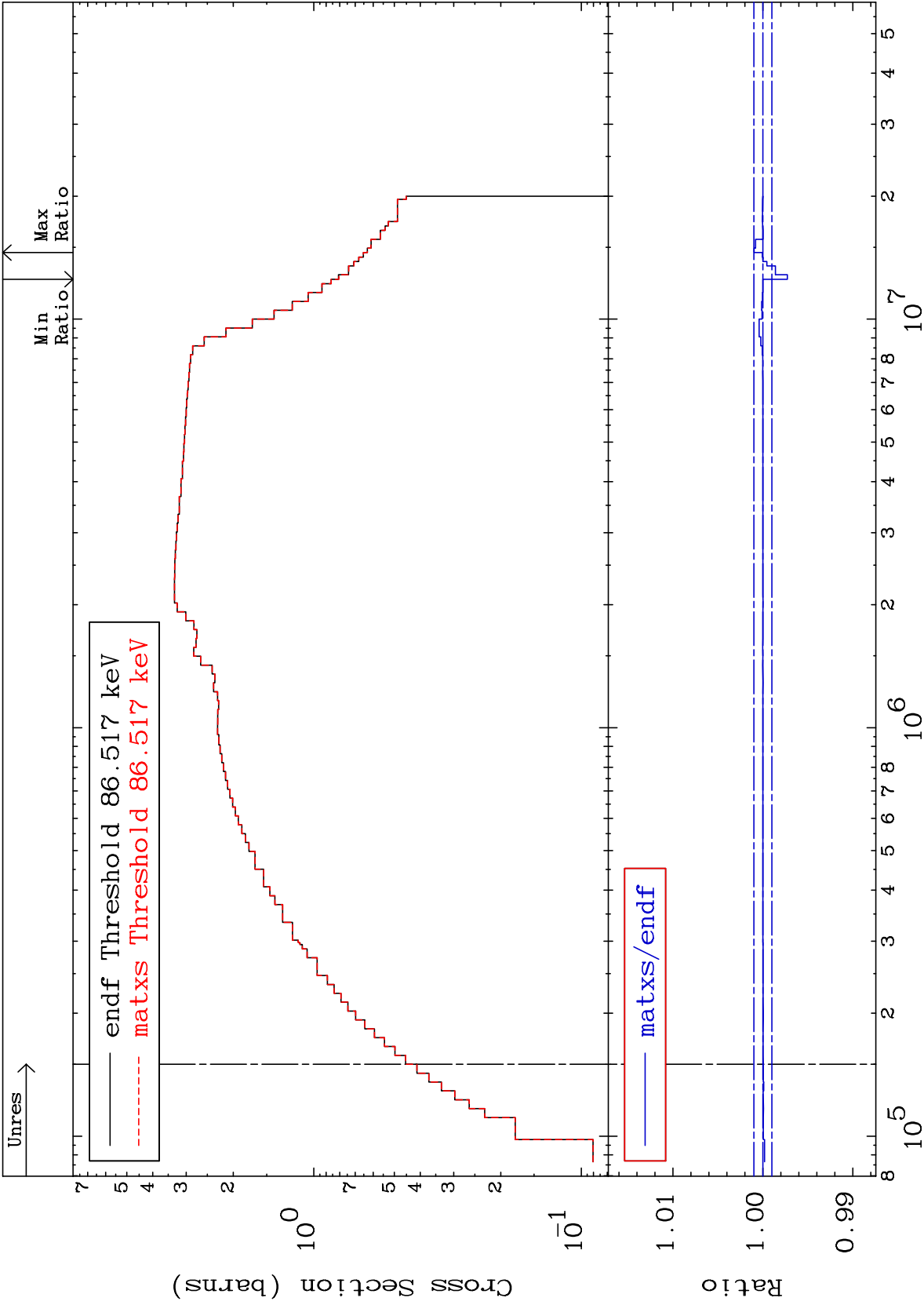


72-Hf-176

MAT 7231

Inelastic
Cross Section

72-Hf-176
-0.273 To 0.098 %



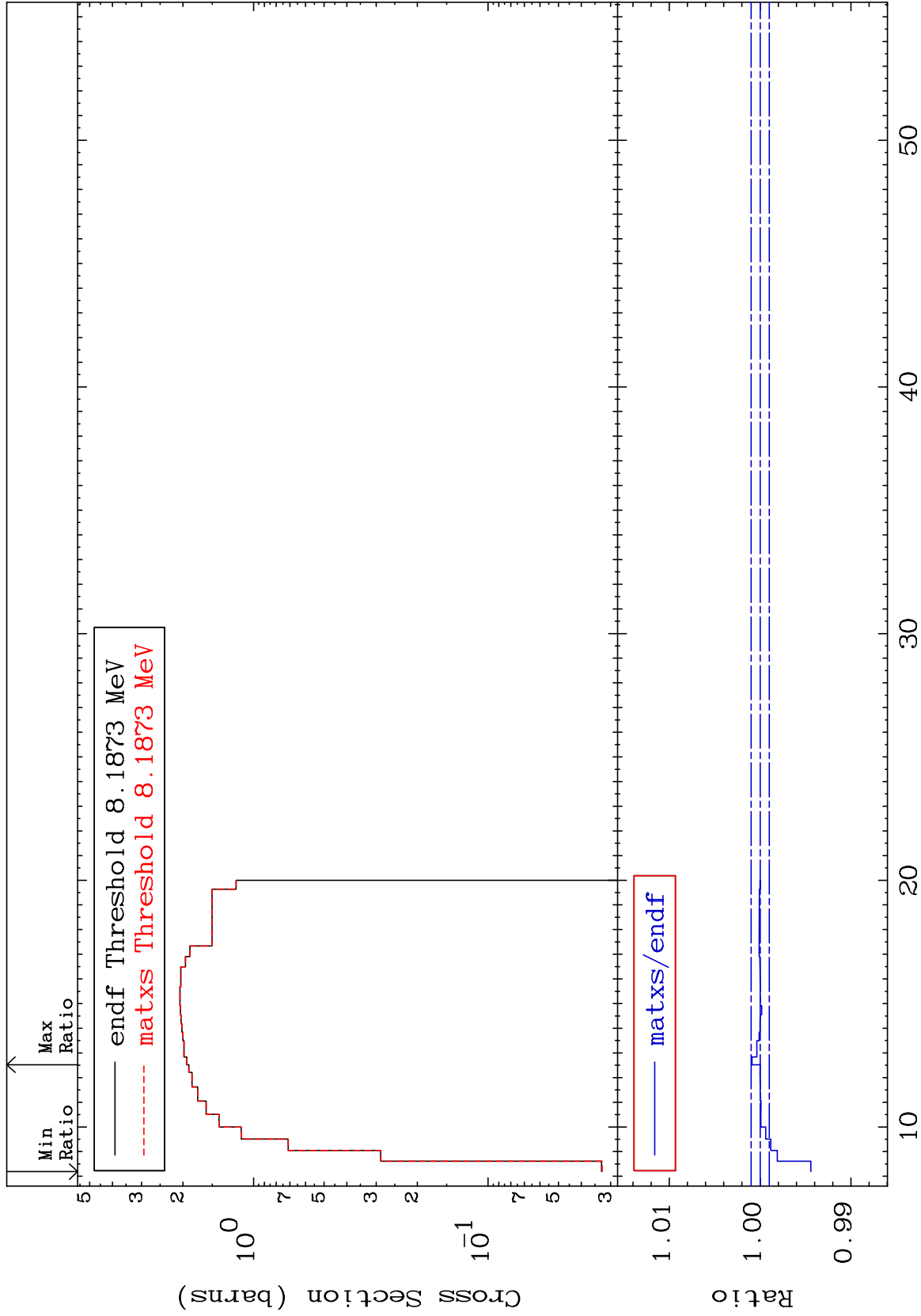
Incident Energy (eV)

72-Hf-176

MAT 7231

(n,2n)
Cross Section

⁷²Hf-176
-0.560 To 0.090 %



3

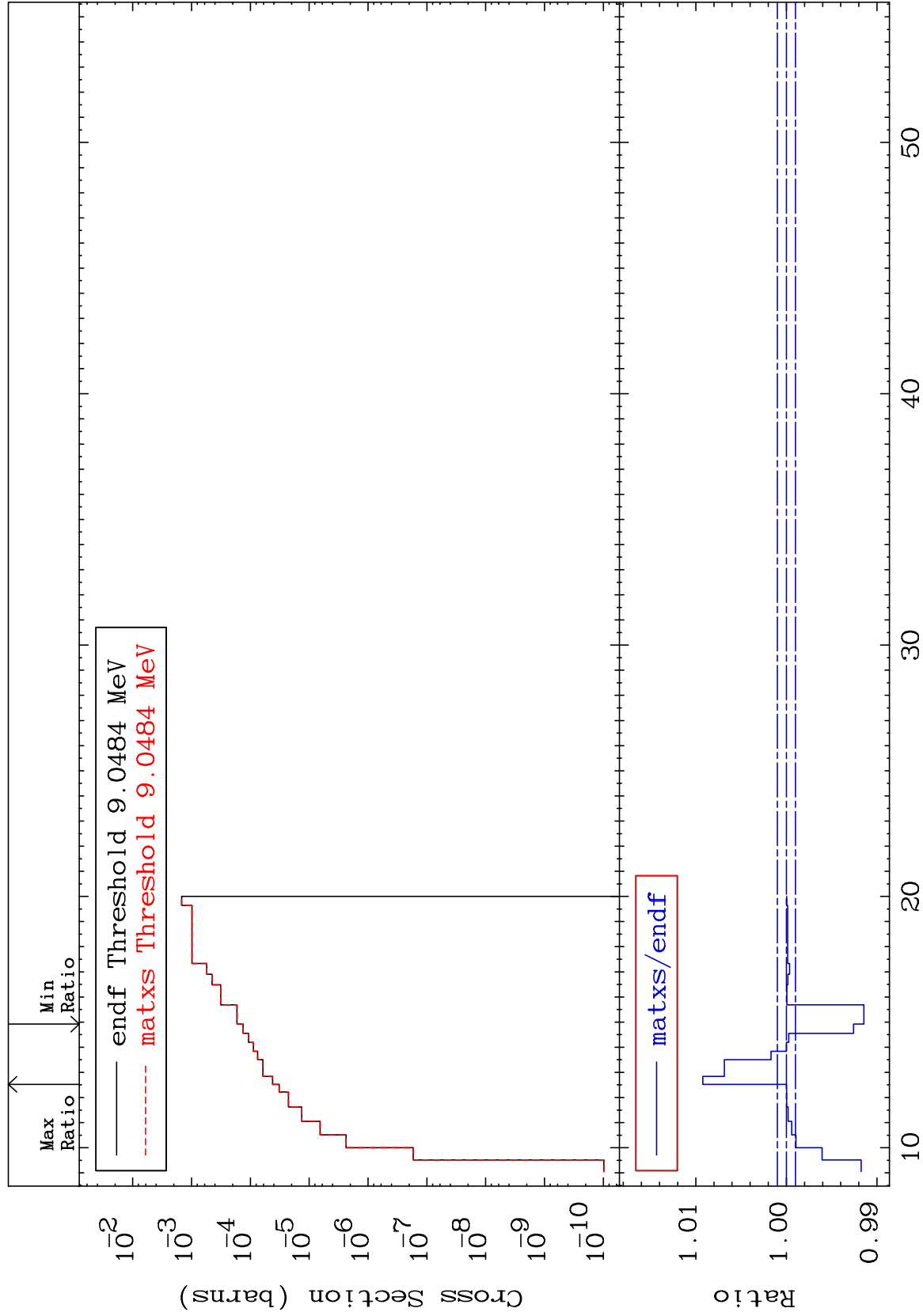
Incident Energy (MeV)

⁷²Hf-176

MAT 7231

(n, n') α
Cross Section

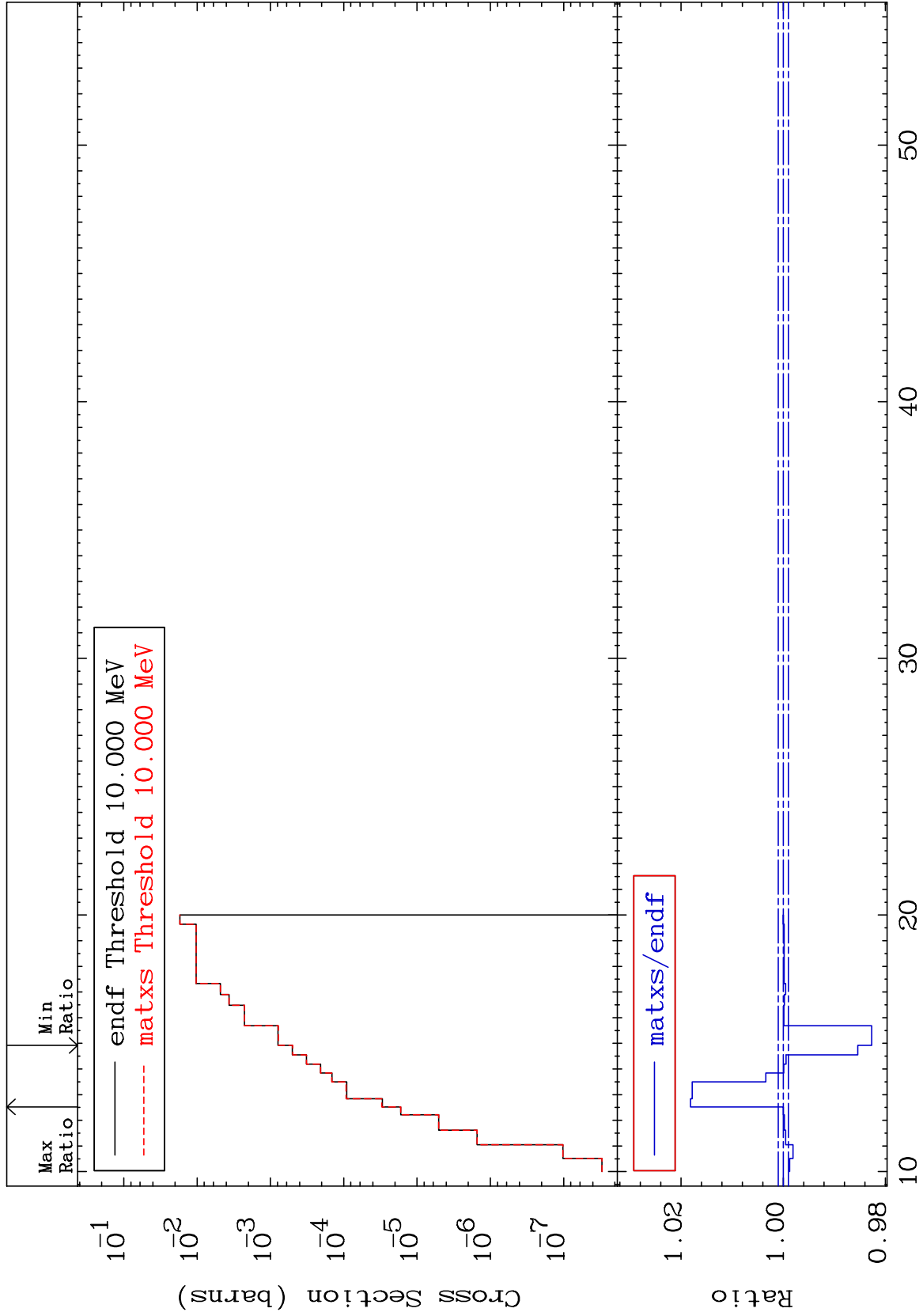
72-Hf-176
-0.856 To 0.923 %



MAT 7231

(n, n') p
Cross Section

72-Hf-176
-1.731 To 1.815 %



5

Incident Energy (MeV)

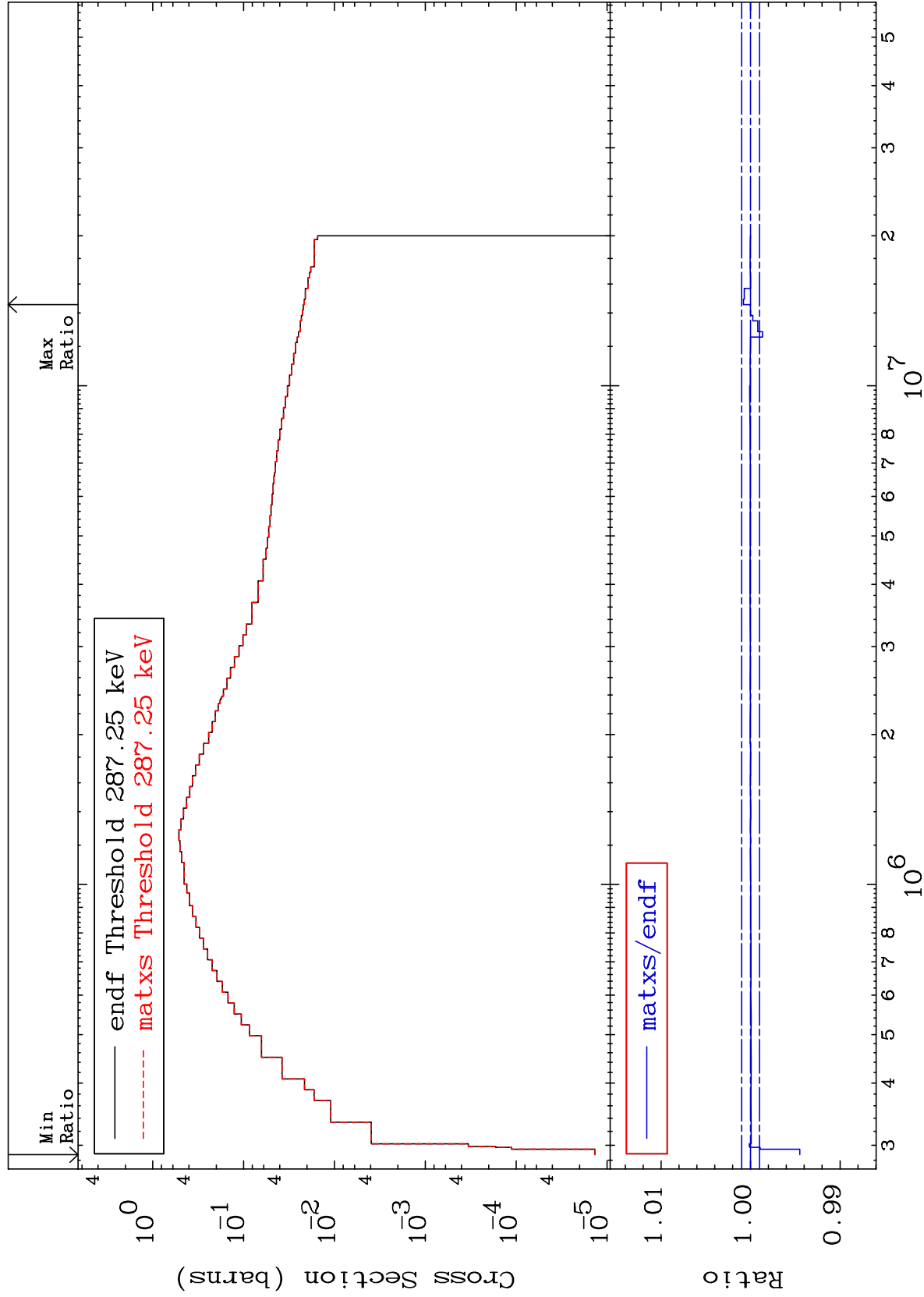
50

72-Hf-176

MAT 7231

290.2 keV (n,n') Level
Cross Section

72-Hf-176
-0.551 To 0.079 %



6

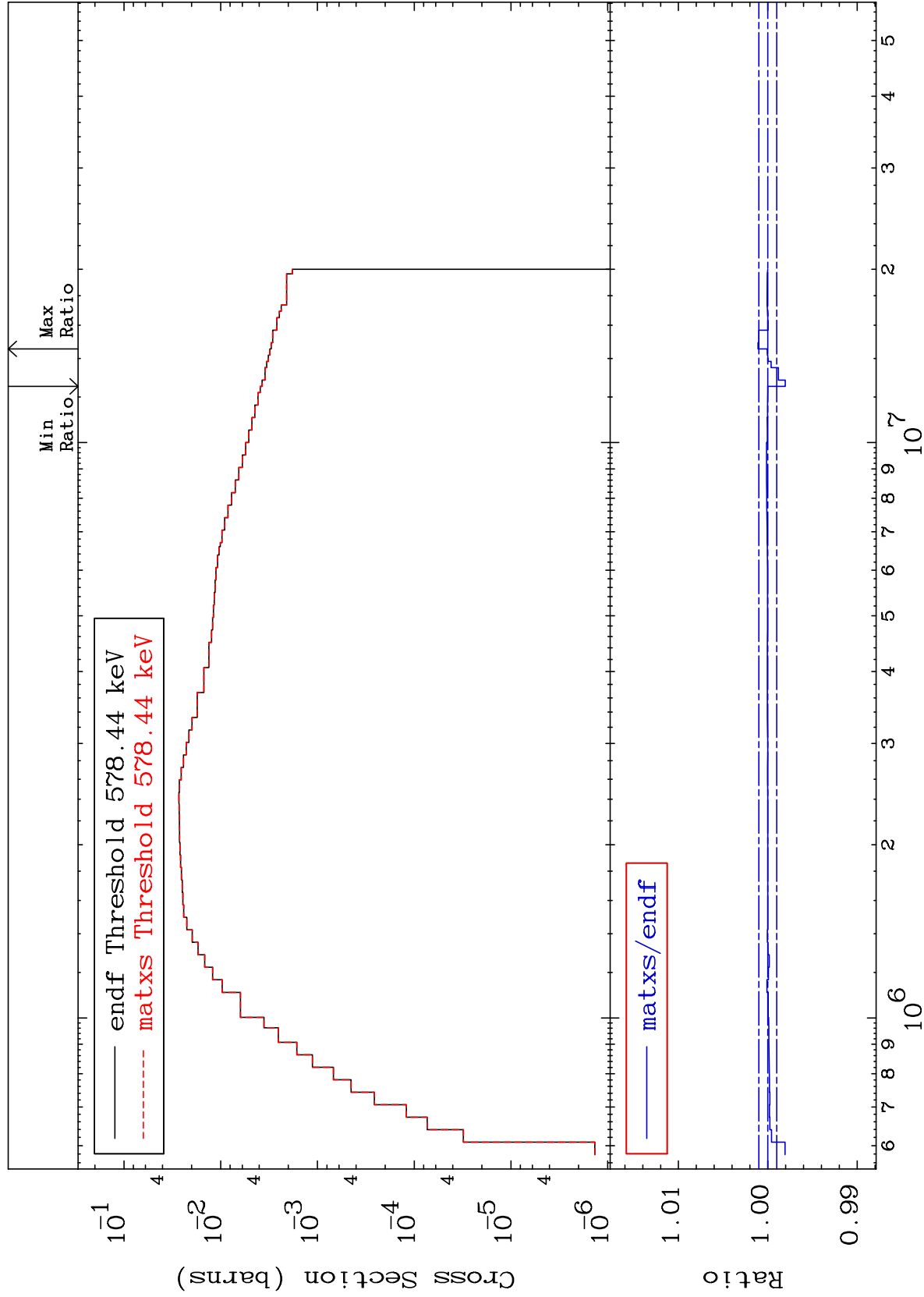
Incident Energy (eV)

72-Hf-176

MAT 7231

596.8 keV (n,n') Level
Cross Section

72-Hf-176
-0.196 To 0.110 %



7

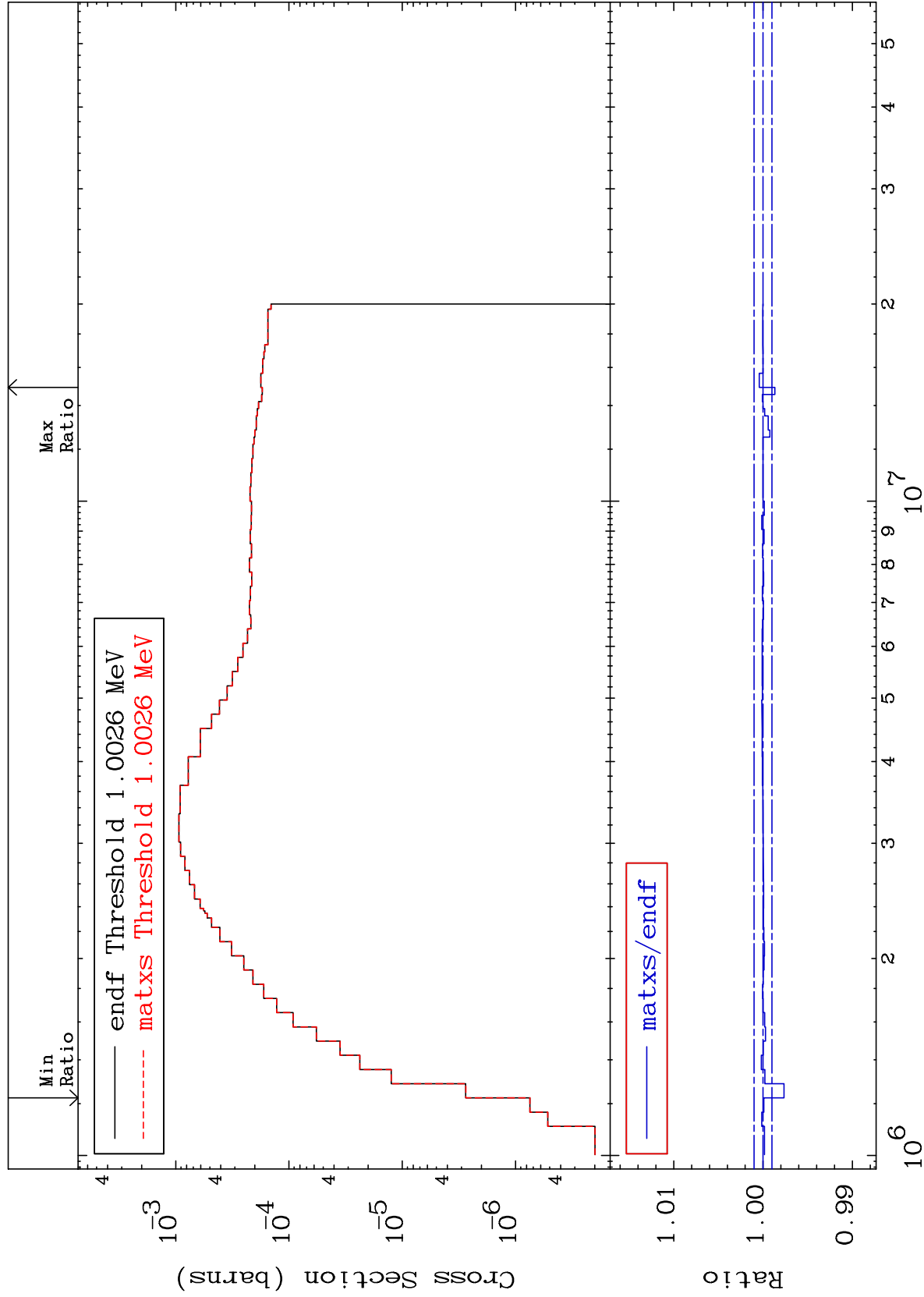
Incident Energy (eV)

72-Hf-176

MAT 7231

997.7 keV (n,n') Level
Cross Section

72-Hf-176
-0.234 To 0.043 %



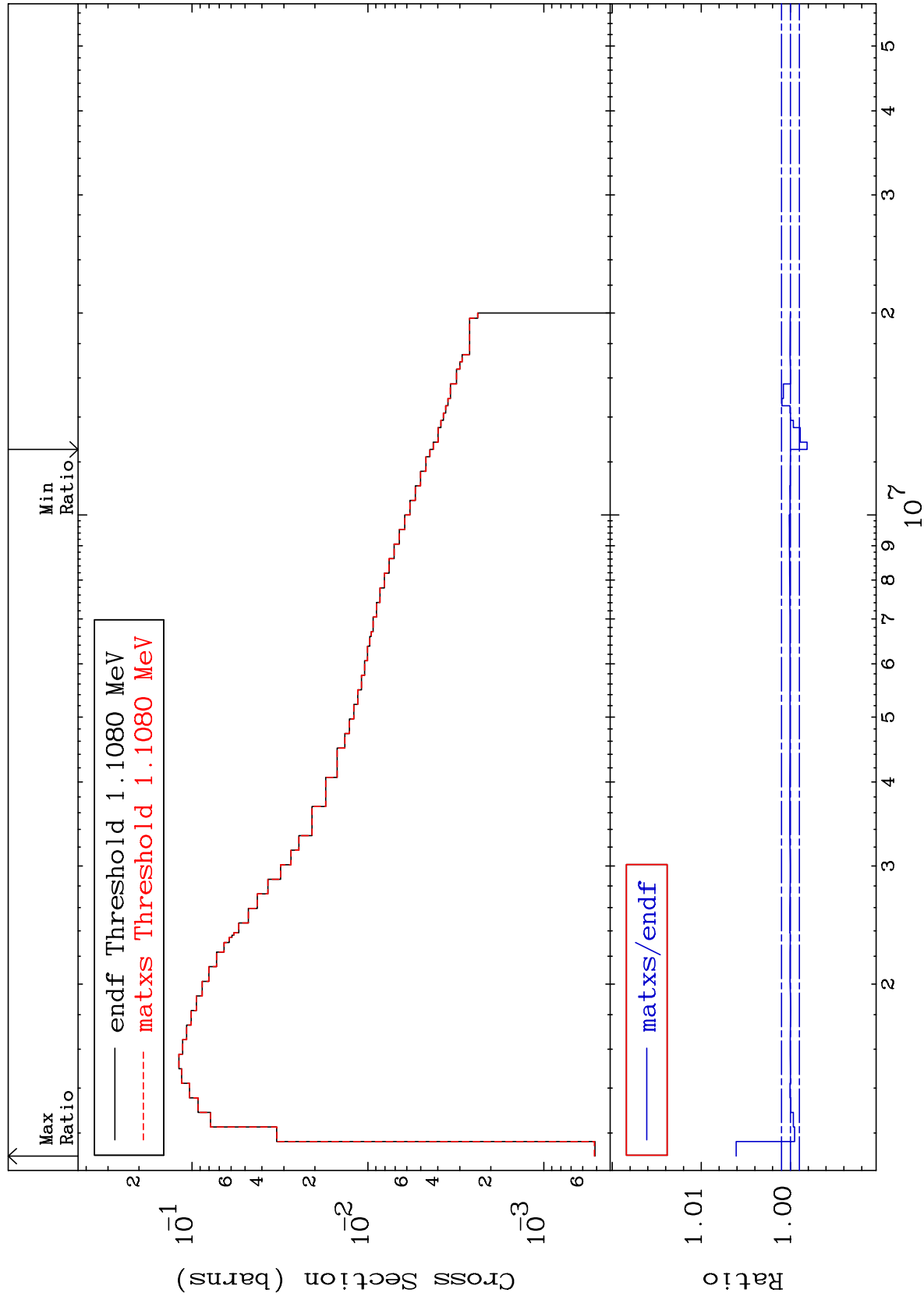
72-Hf-176

72-Hf-176

MAT 7231

1.150 MeV (n,n') Level
Cross Section

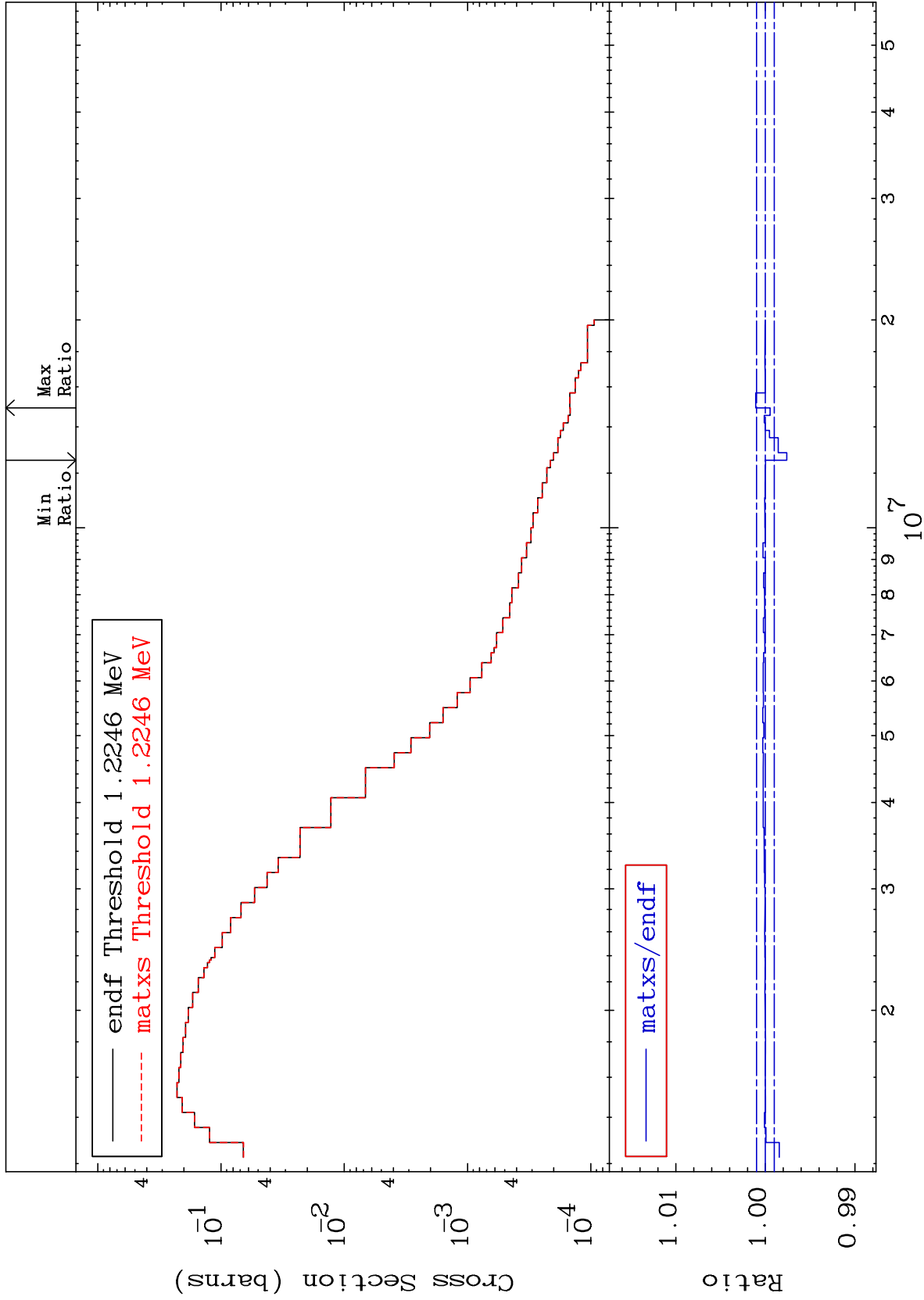
⁷²Hf-176
-0.188 To 0.609 %



MAT 7231

1.227 MeV (n,n') Level
Cross Section

72-Hf-176
-0.238 To 0.107 %



10

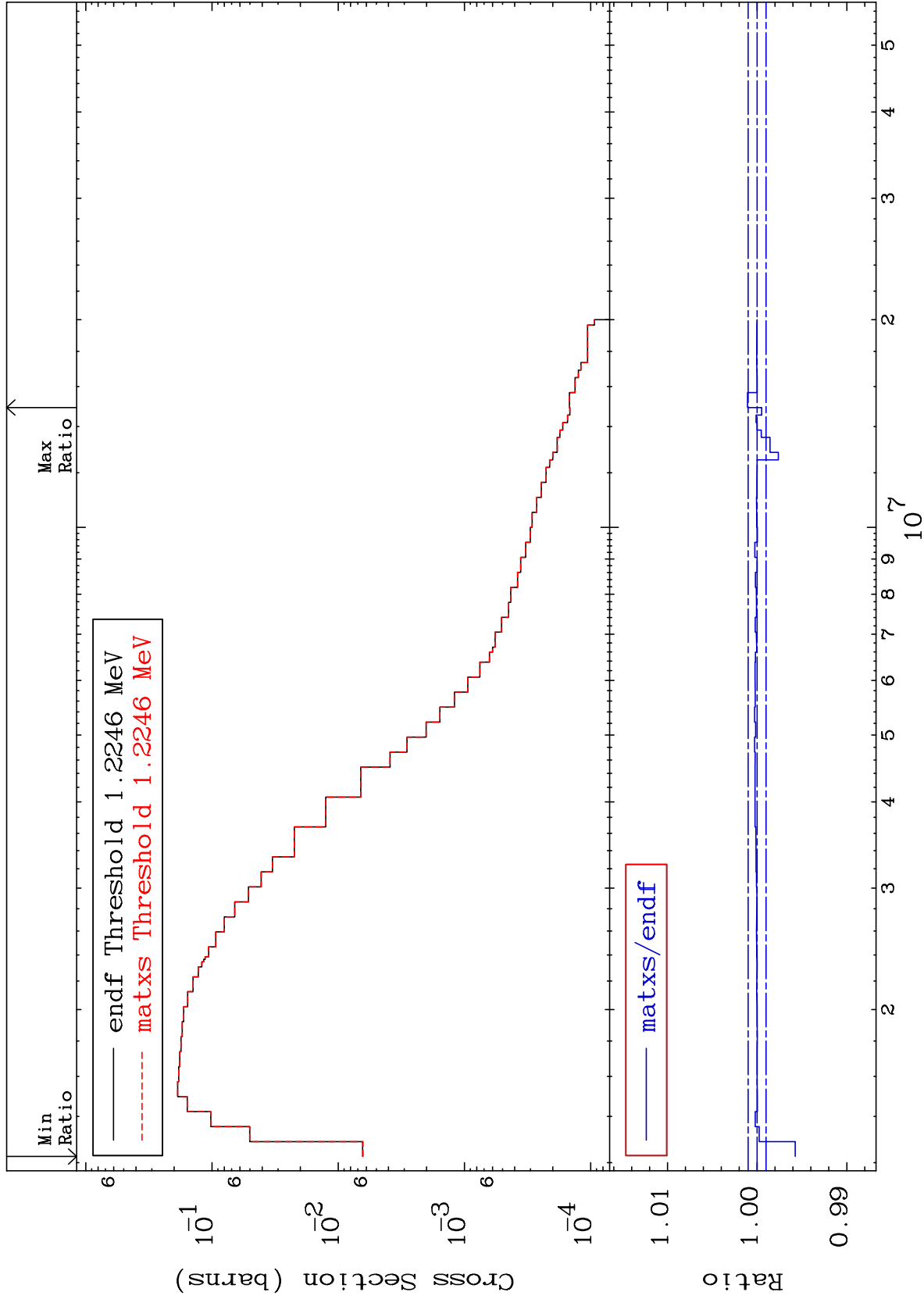
Incident Energy (eV)

72-Hf-176

MAT 7231

1.248 MeV (n,n') Level
Cross Section

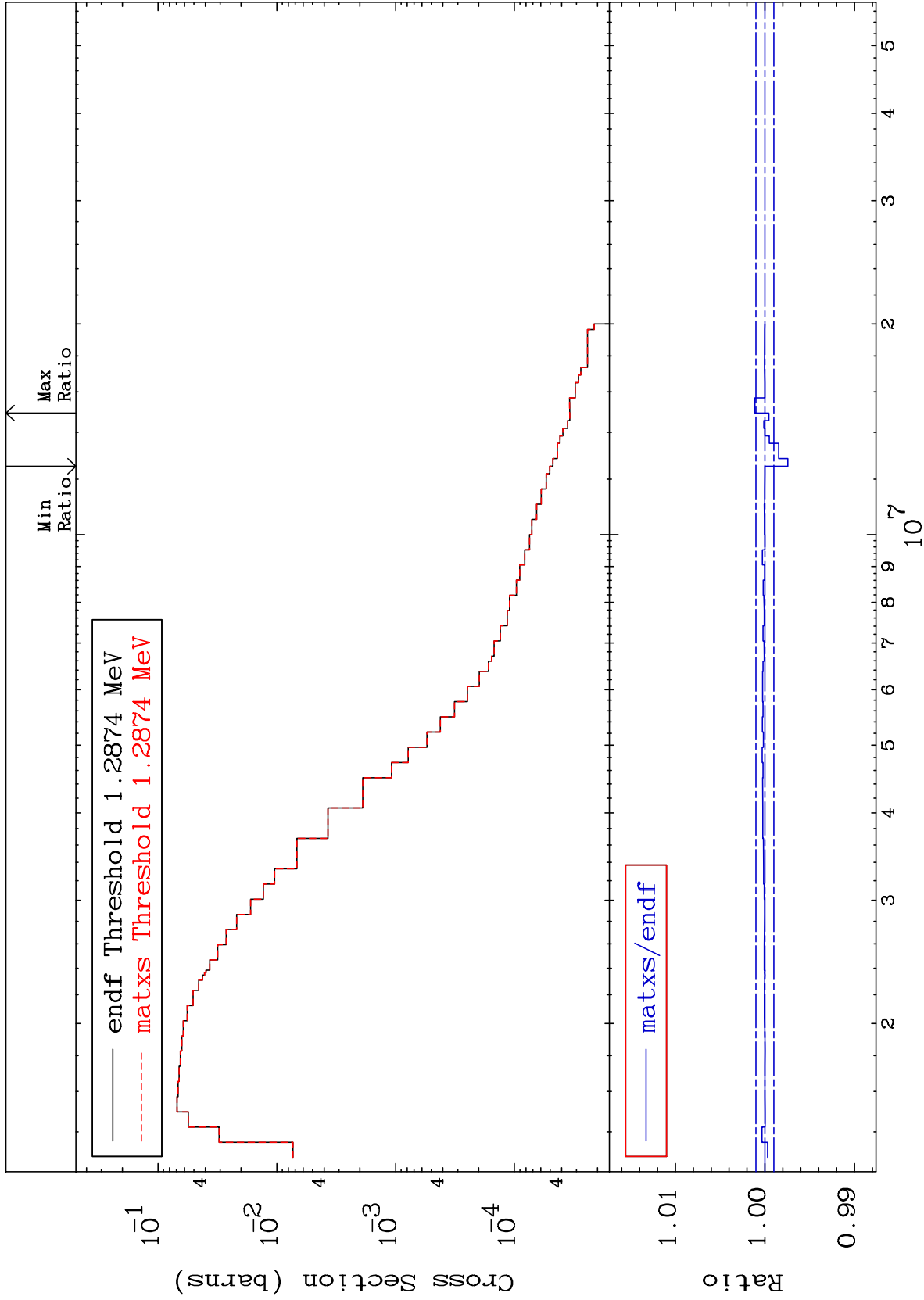
72-Hf-176
-0.424 To 0.107 %



MAT 7231

1.293 MeV (n,n') Level
Cross Section

72-Hf-176
-0.254 To 0.113 %



12

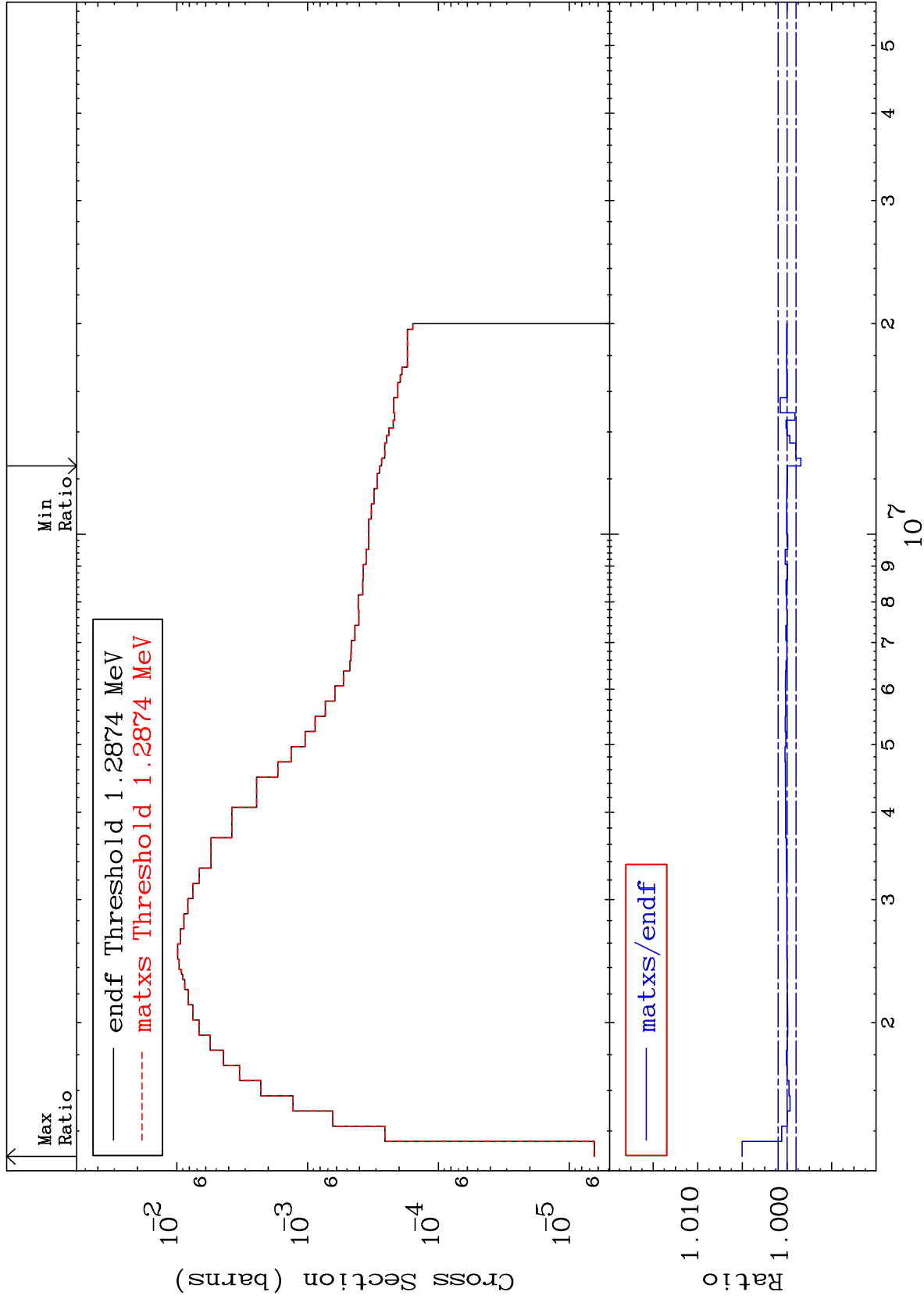
Incident Energy (eV)

72-Hf-176

MAT 7231

1.333 MeV (n,n') Level
Cross Section

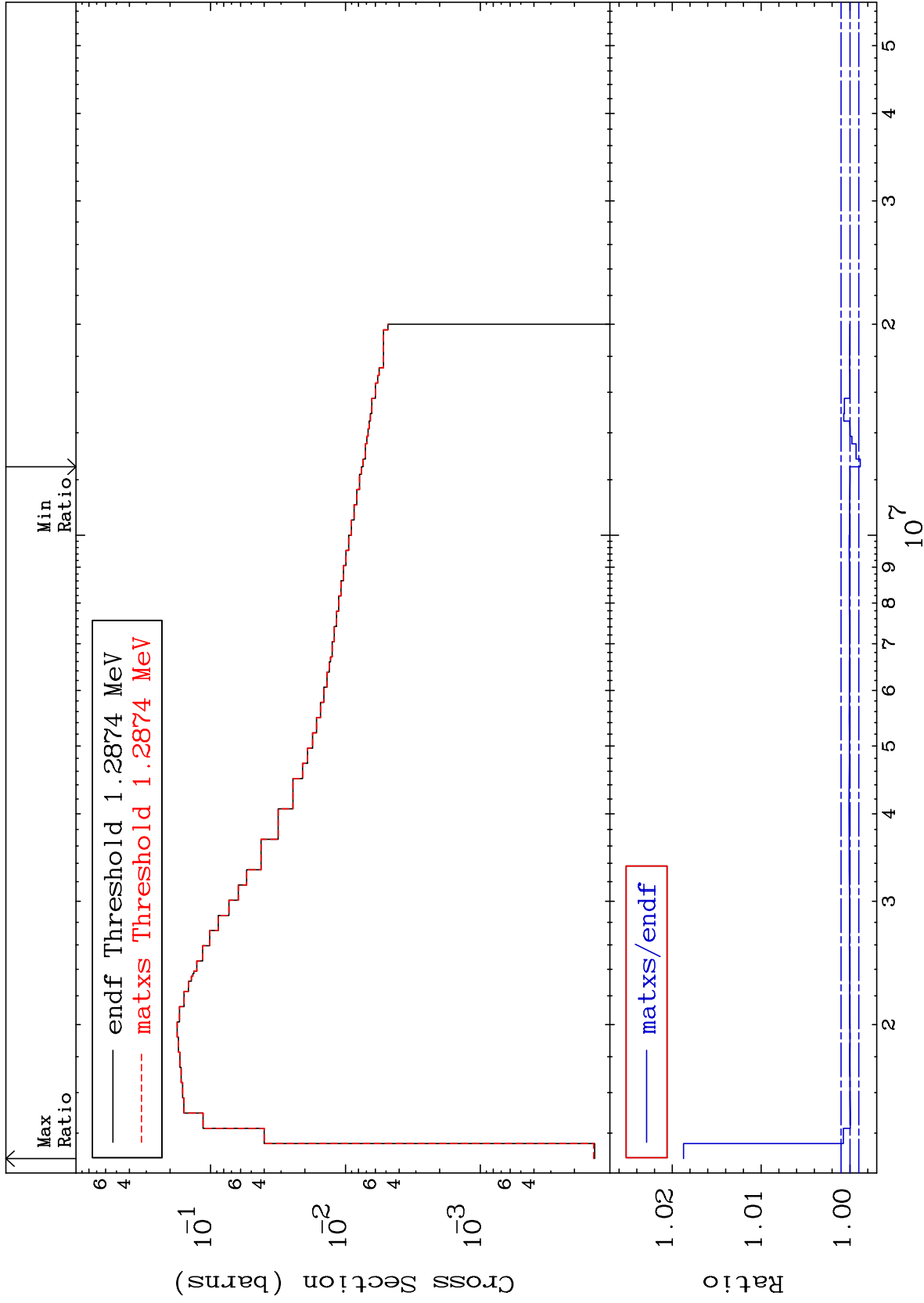
72-Hf-176
-0.154 To 0.504 %



MAT 7231

1.341 MeV (n,n') Level
Cross Section

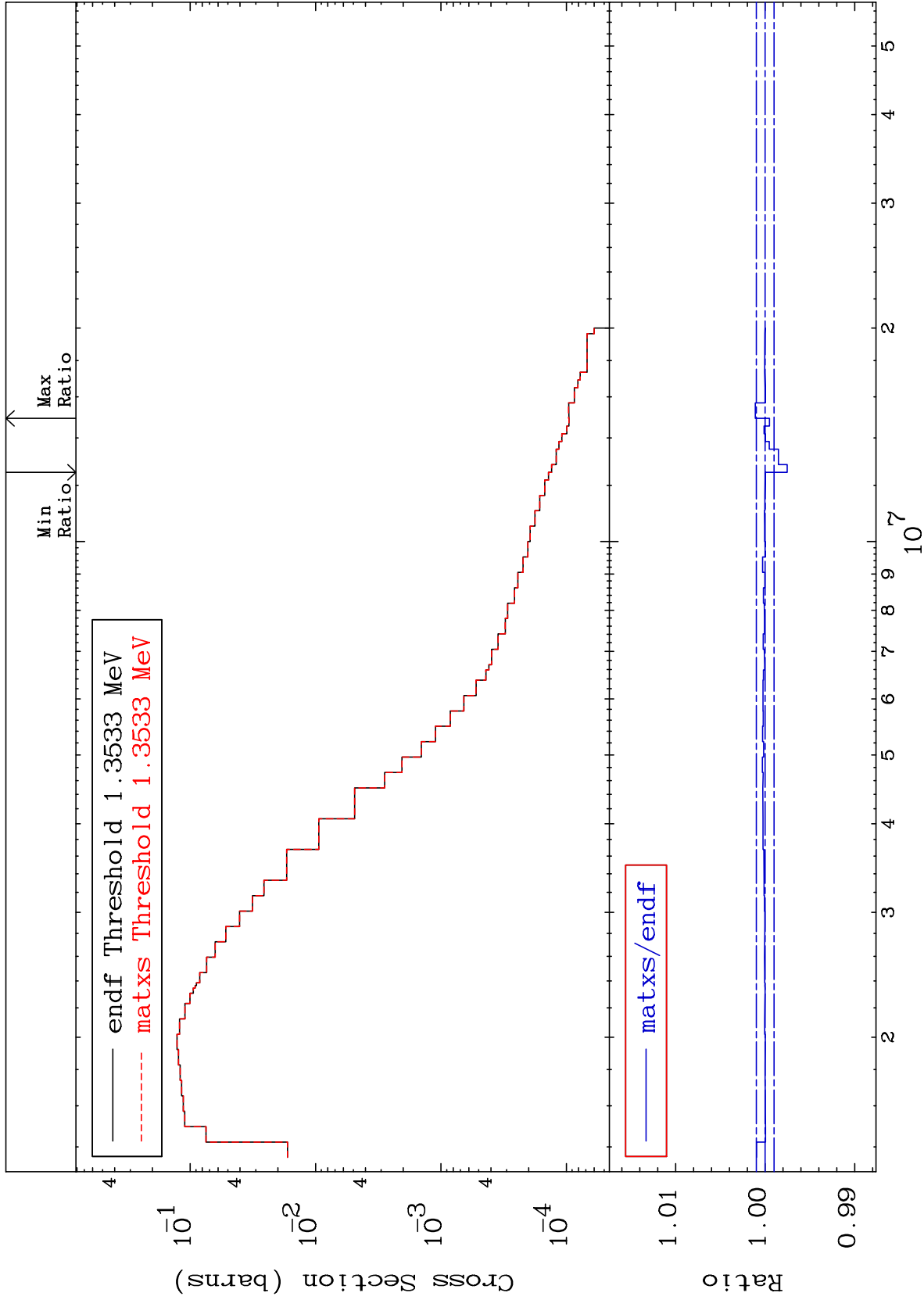
⁷²Hf-176
-0.116 To 1.873 %



MAT 7231

1.362 MeV (n,n') Level
Cross Section

72-Hf-176
-0.245 To 0.110 %



15

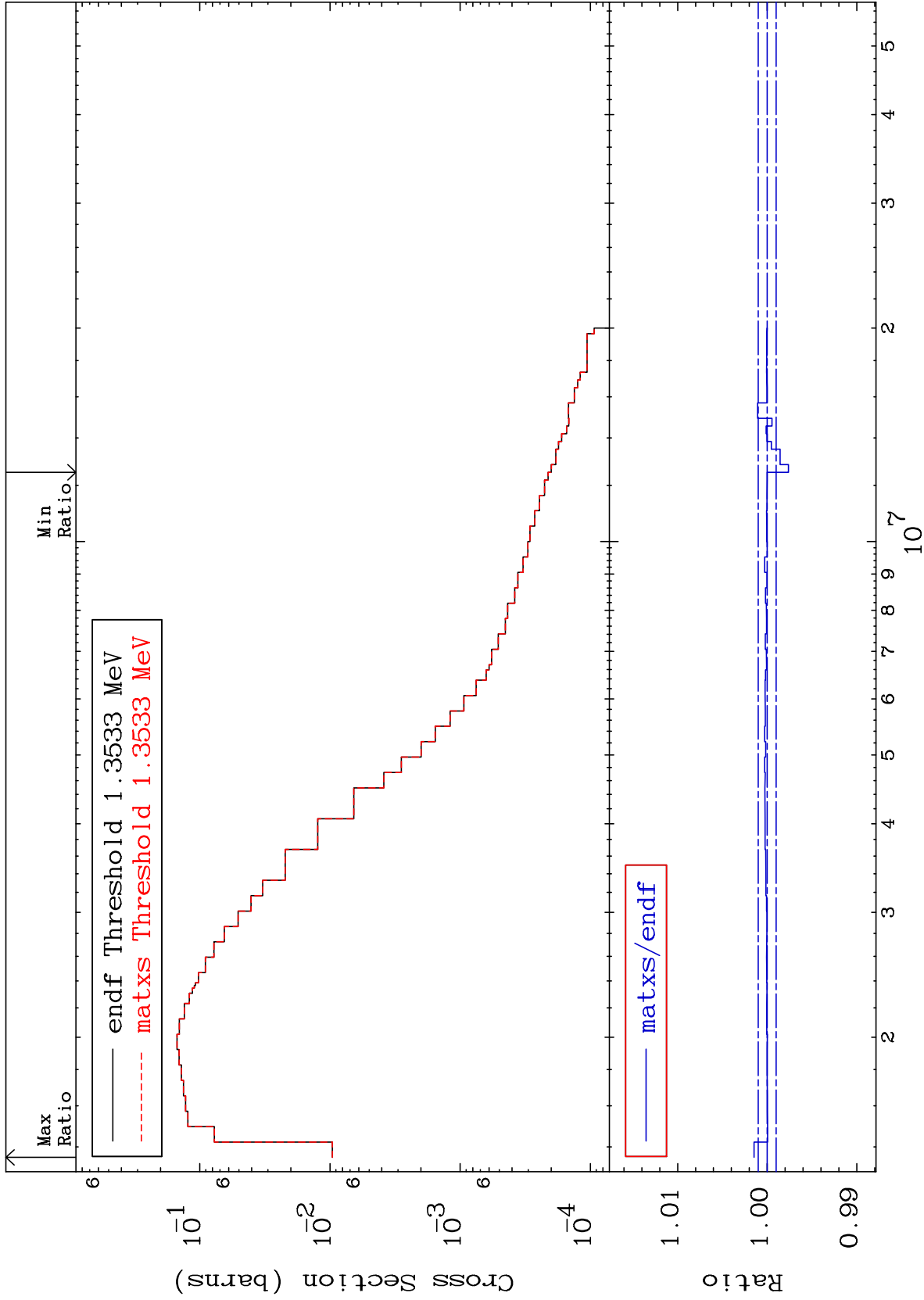
Incident Energy (eV)

72-Hf-176

MAT 7231

1.379 MeV (n,n') Level
Cross Section

72-Hf-176
-0.236 To 0.146 %



16

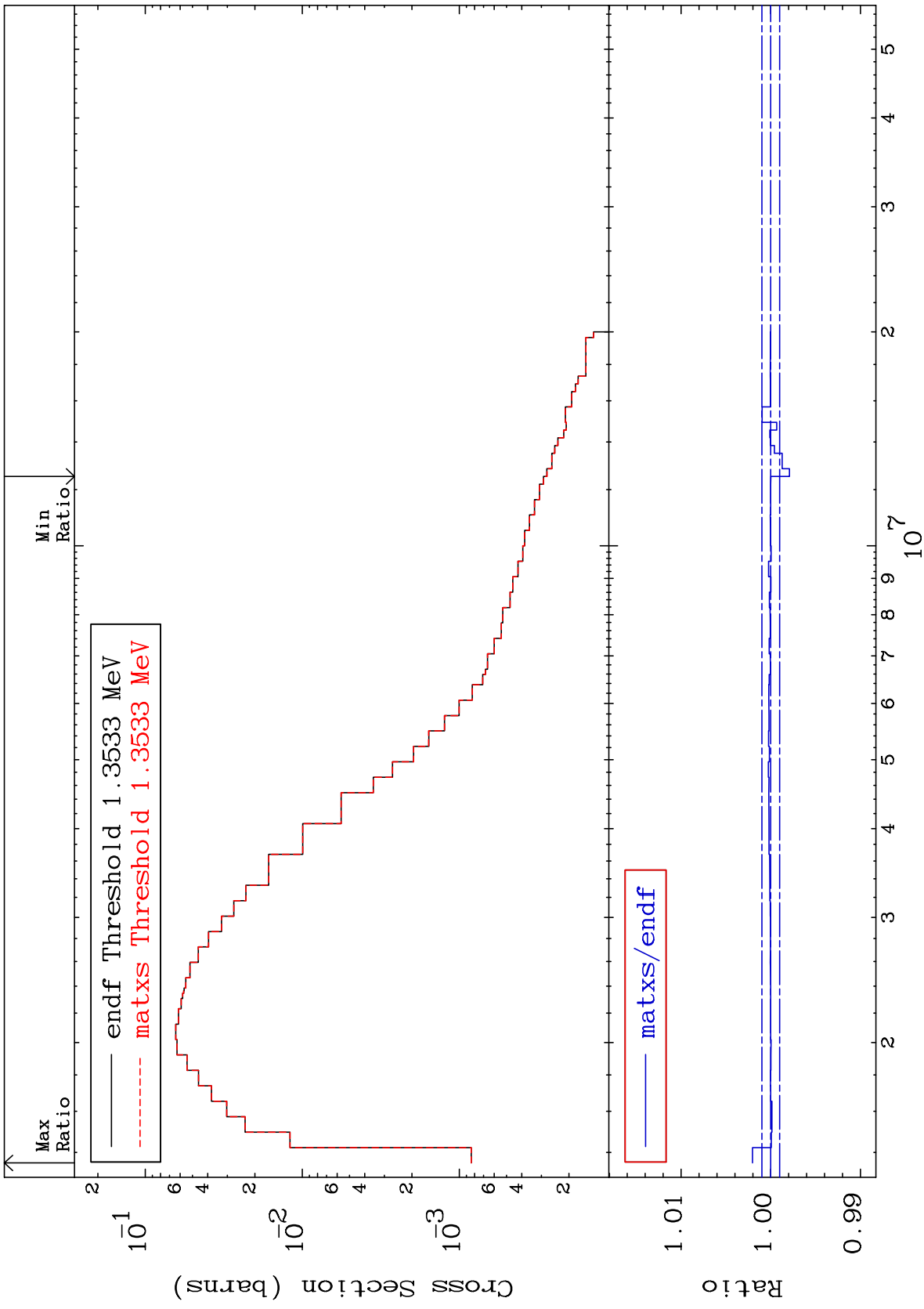
Incident Energy (eV)

72-Hf-176

MAT 7231

1.390 MeV (n,n') Level
Cross Section

72-Hf-176
-0.209 To 0.204 %



17

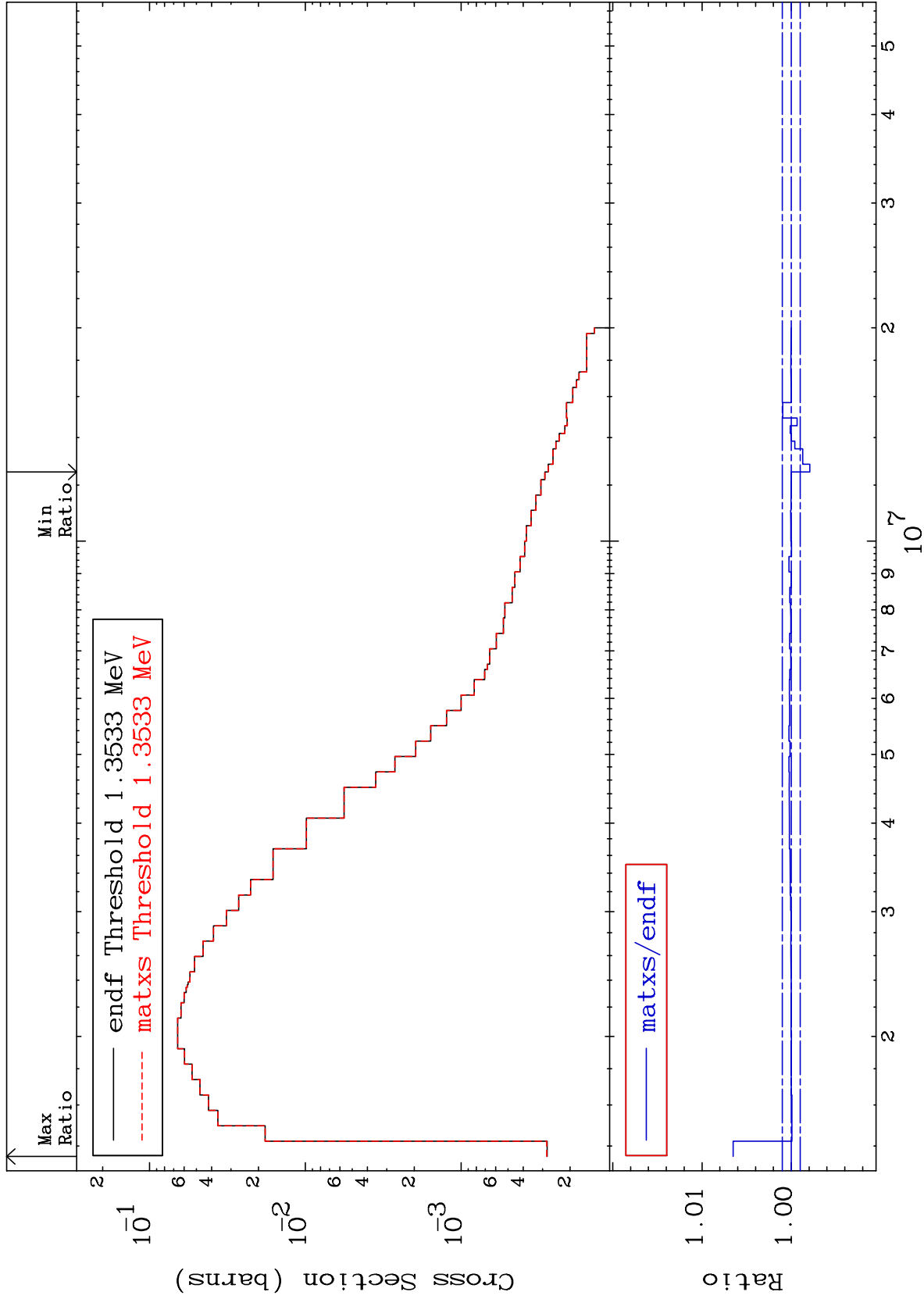
Incident Energy (eV)

72-Hf-176

MAT 7231

1.405 MeV (n,n') Level
Cross Section

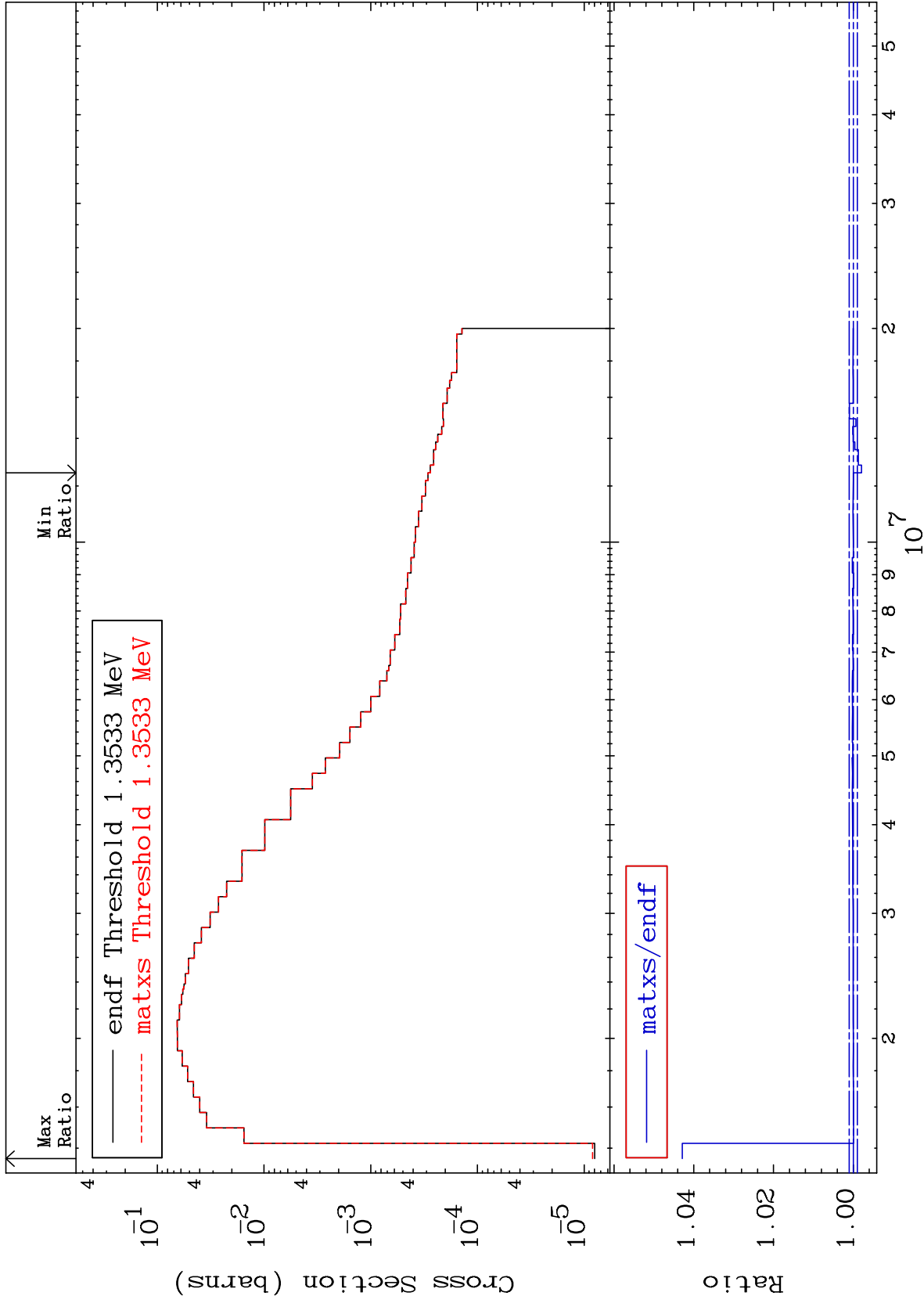
72-Hf-176
-0.207 To 0.652 %



MAT 7231

1.413 MeV (n,n') Level
Cross Section

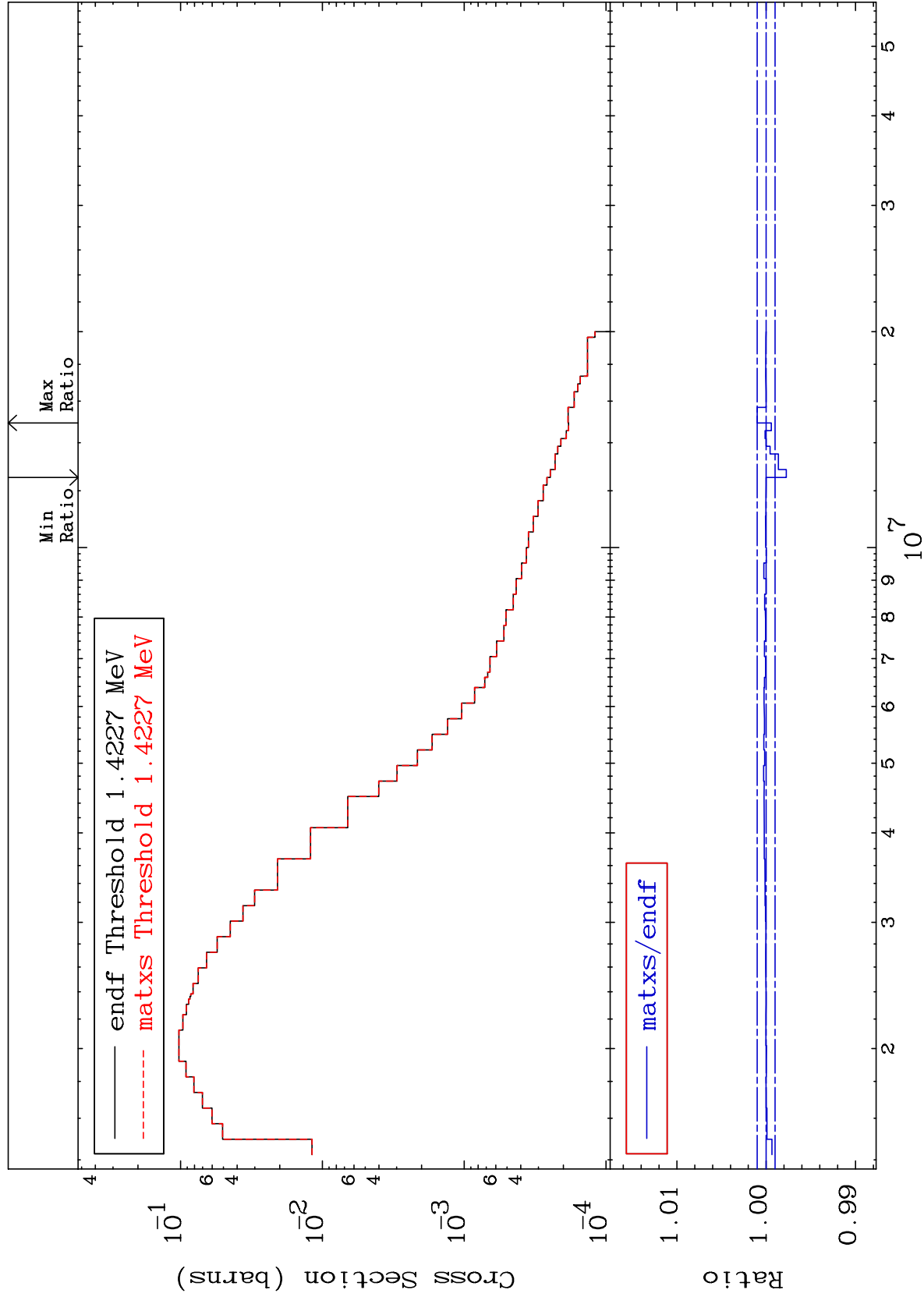
72-Hf-176
-0.207 To 4.286 %



MAT 7231

1.446 MeV (n,n') Level
Cross Section

72-Hf-176
-0.224 To 0.102 %



20

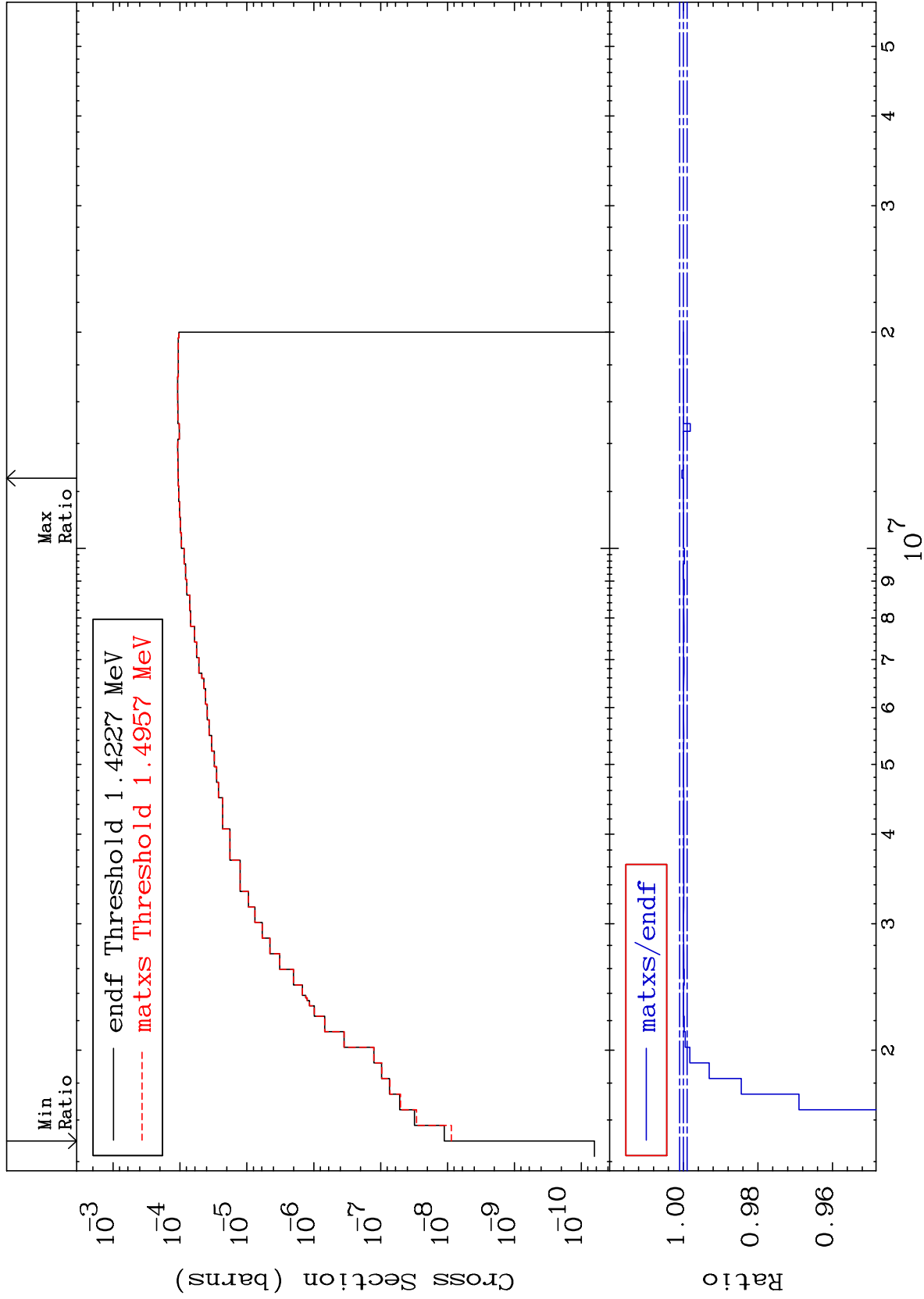
Incident Energy (eV)

72-Hf-176

MAT 7231

1.481 MeV (n,n') Level
Cross Section

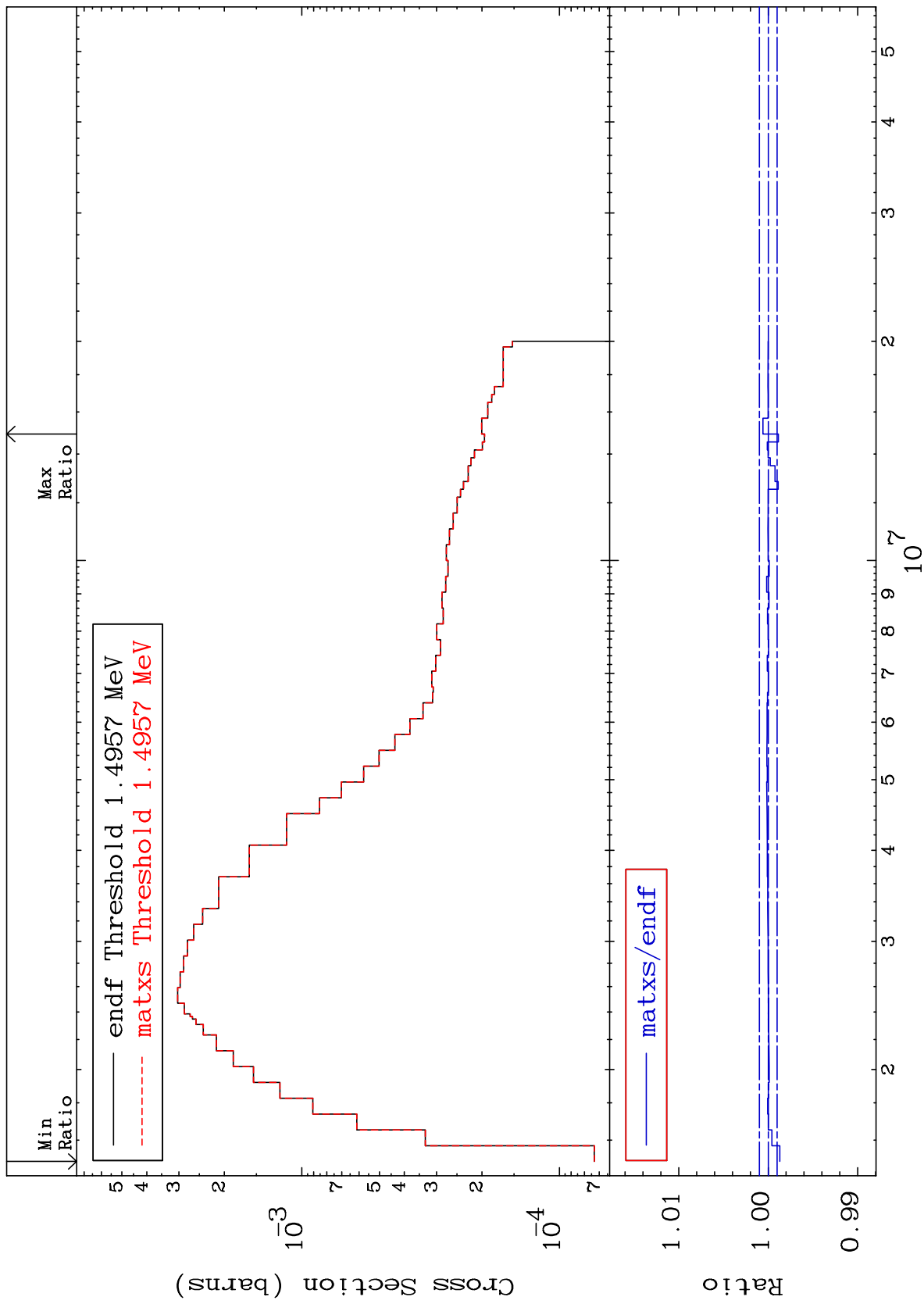
⁷²Hf-176
-21.83 To 0.038 %



MAT 7231

1.506 MeV (n,n') Level
Cross Section

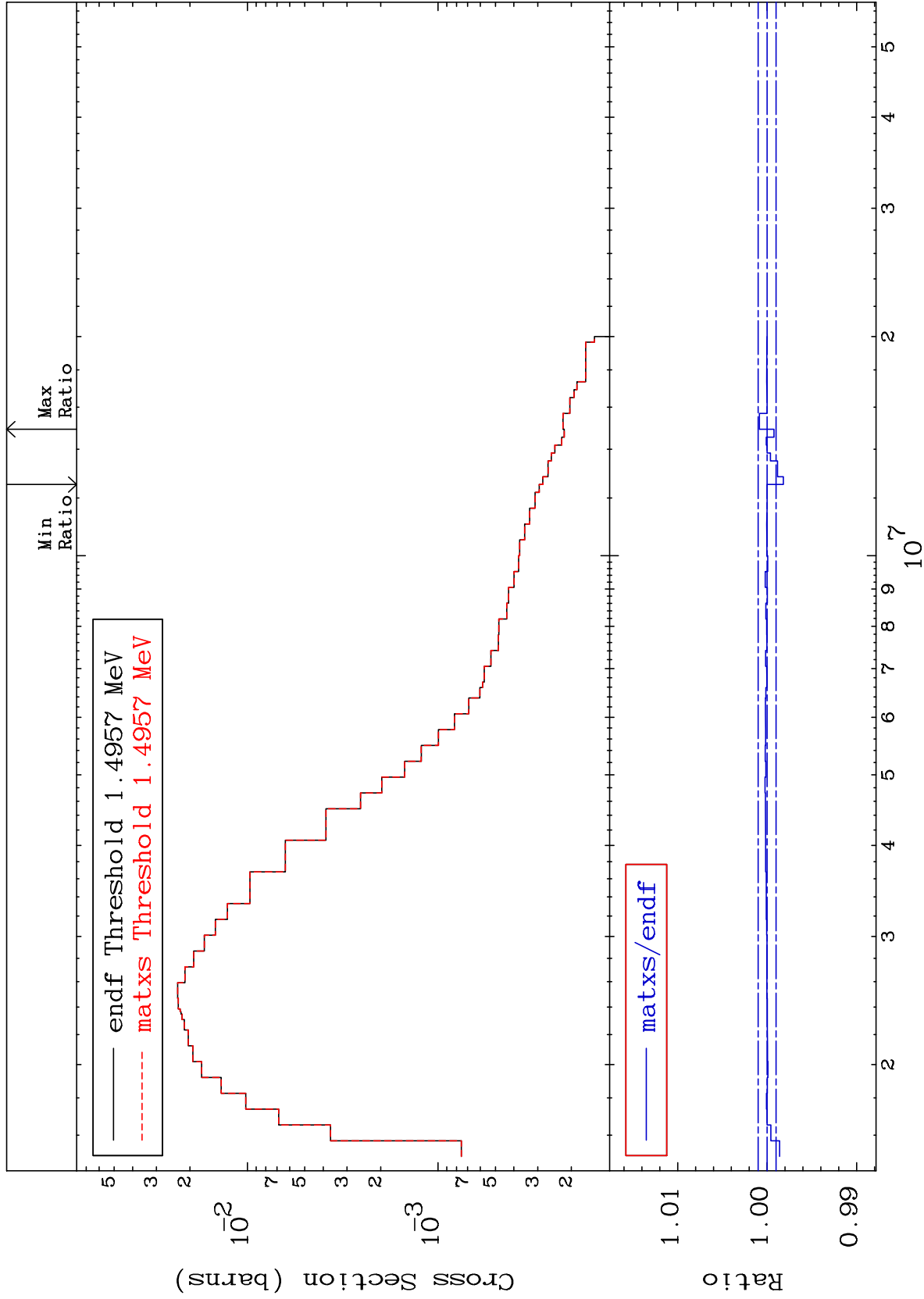
72-Hf-176
-0.129 To 0.059 %



MAT 7231

1.509 MeV (n,n') Level
Cross Section

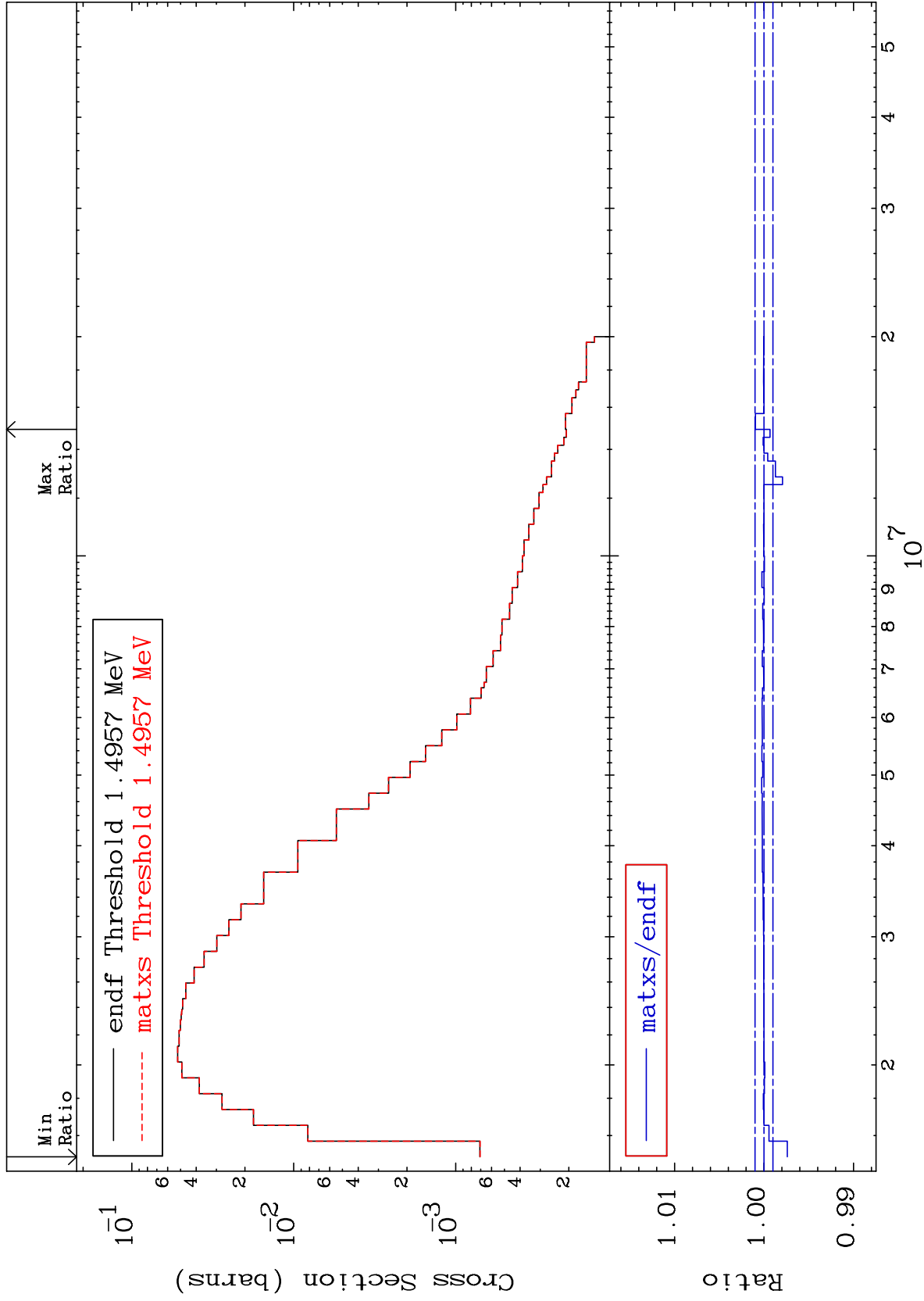
⁷²Hf-176
-0.182 To 0.088 %



MAT 7231

1.533 MeV (n,n') Level
Cross Section

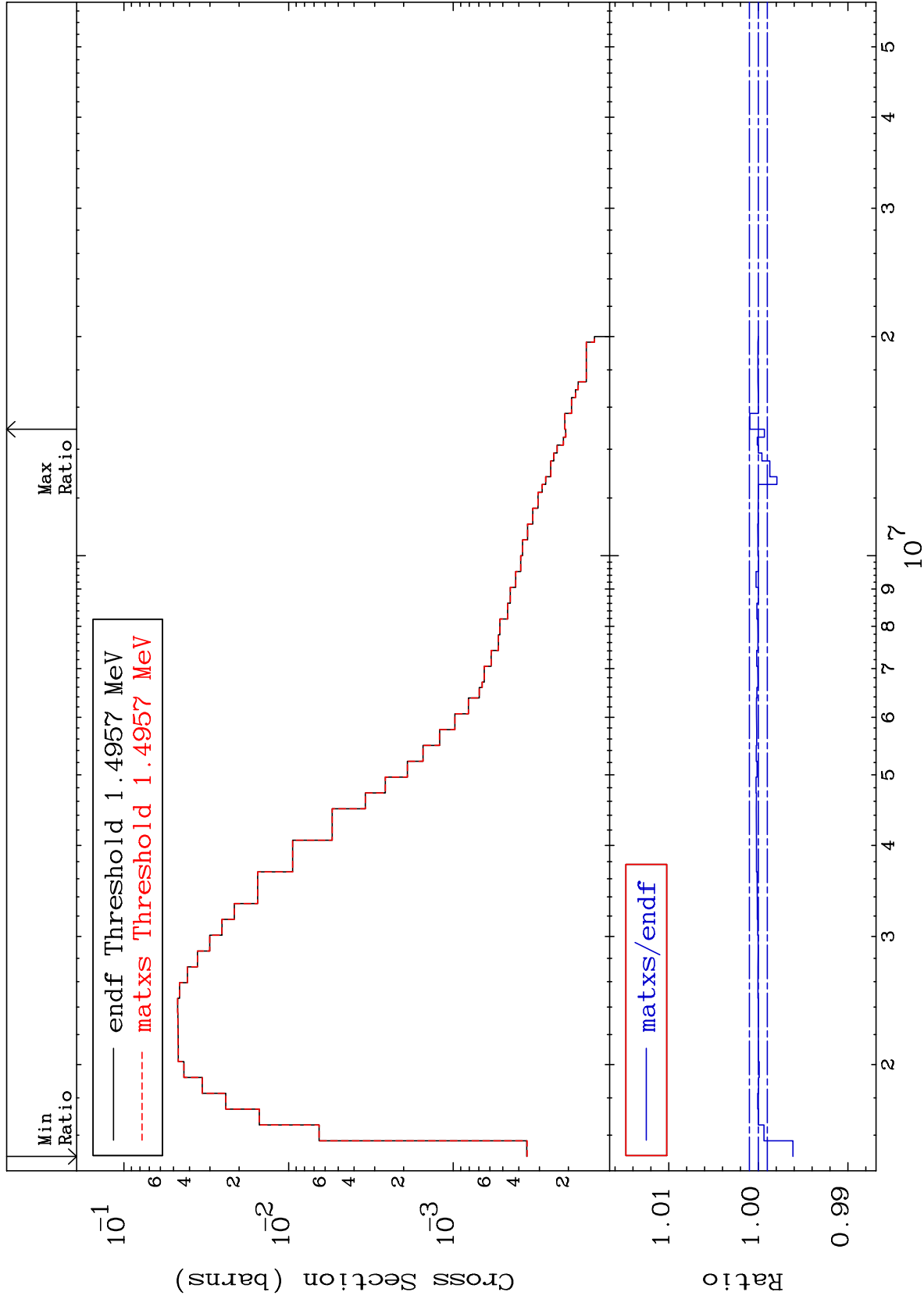
72-Hf-176
-0.260 To 0.096 %



MAT 7231

1.540 MeV (n,n') Level
Cross Section

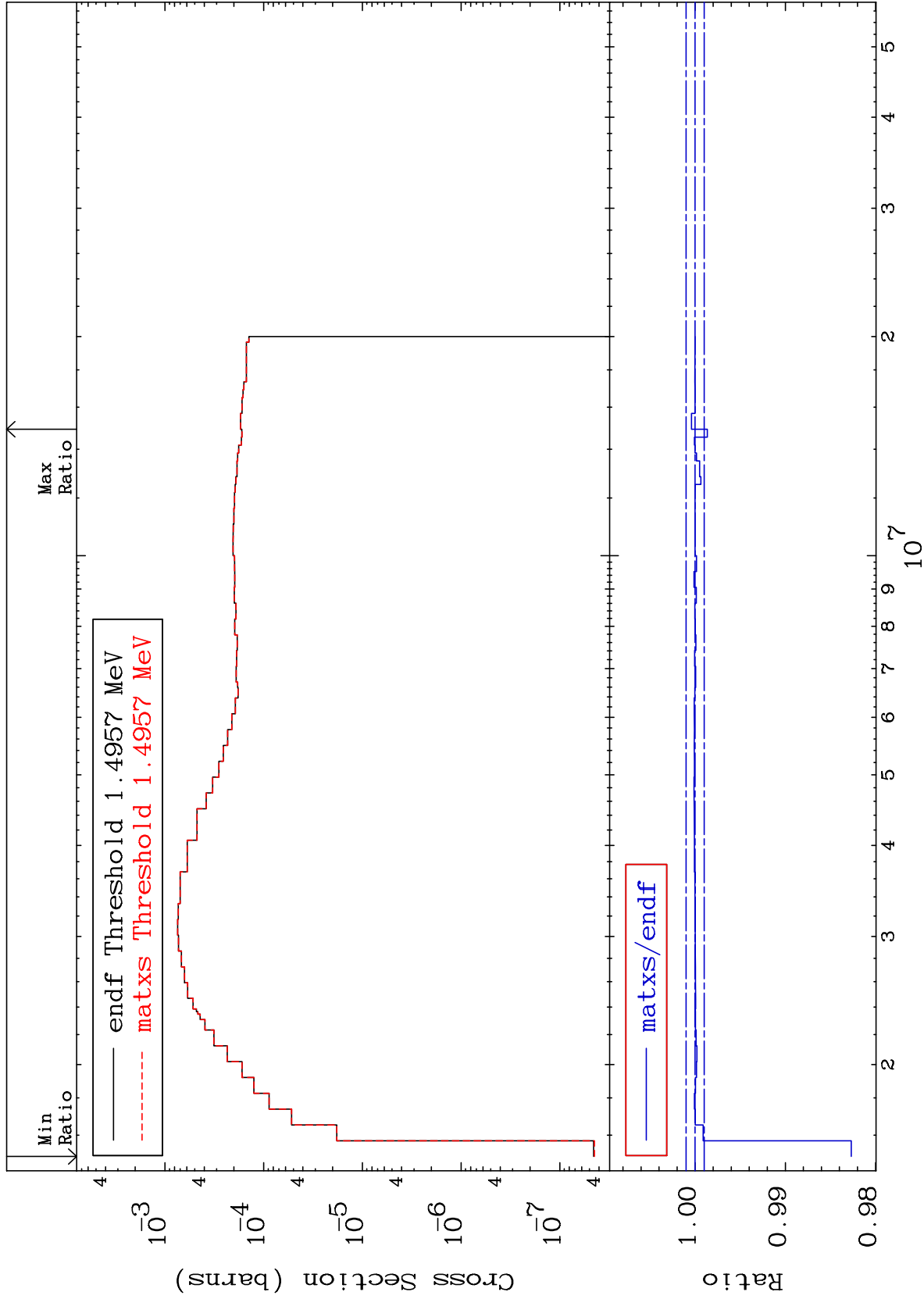
72-Hf-176
-0.387 To 0.096 %



MAT 7231

1.559 MeV (n,n') Level
Cross Section

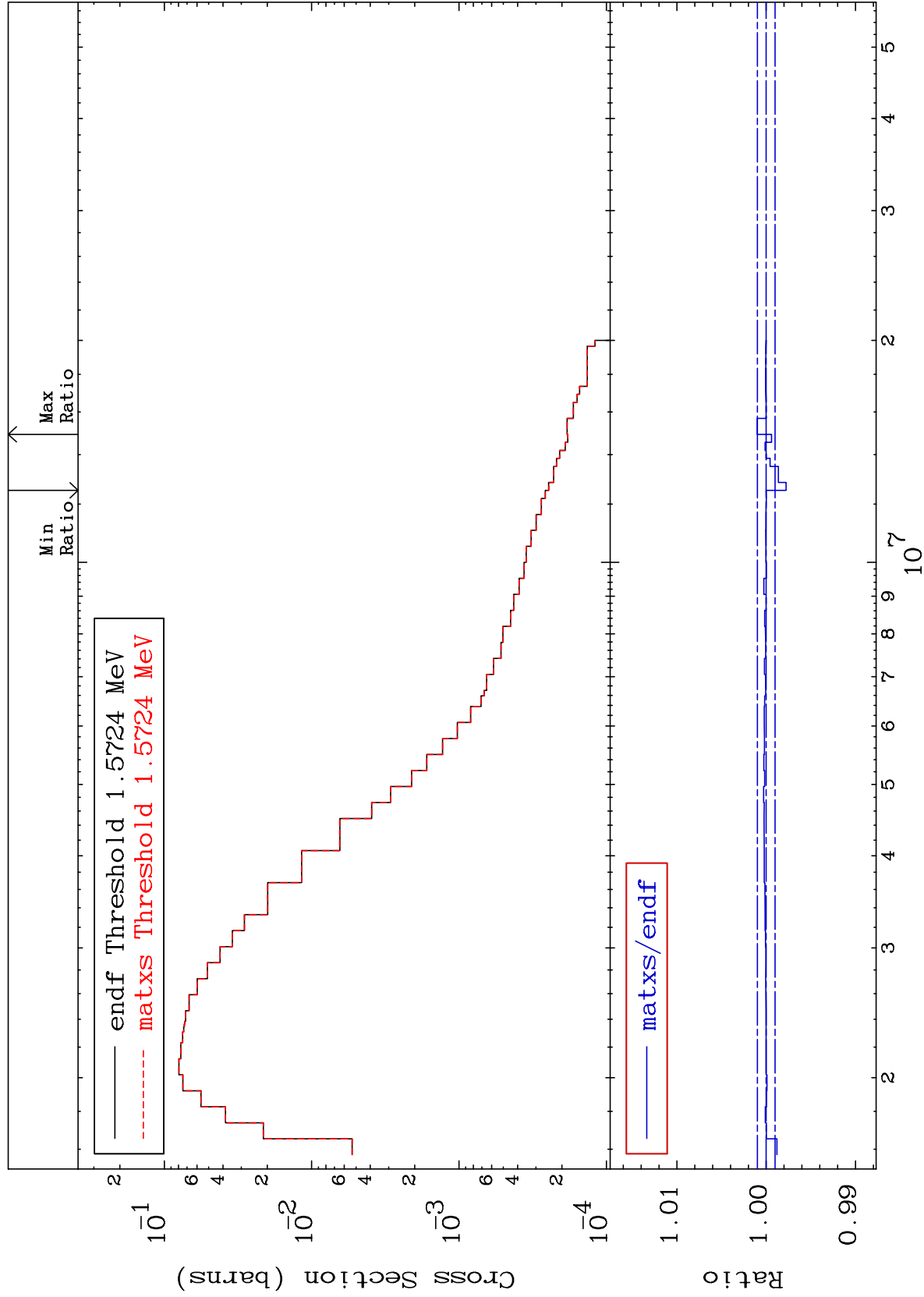
⁷²Hf-176
-1.731 To 0.040 %



MAT 7231

1.578 MeV (n,n') Level
Cross Section

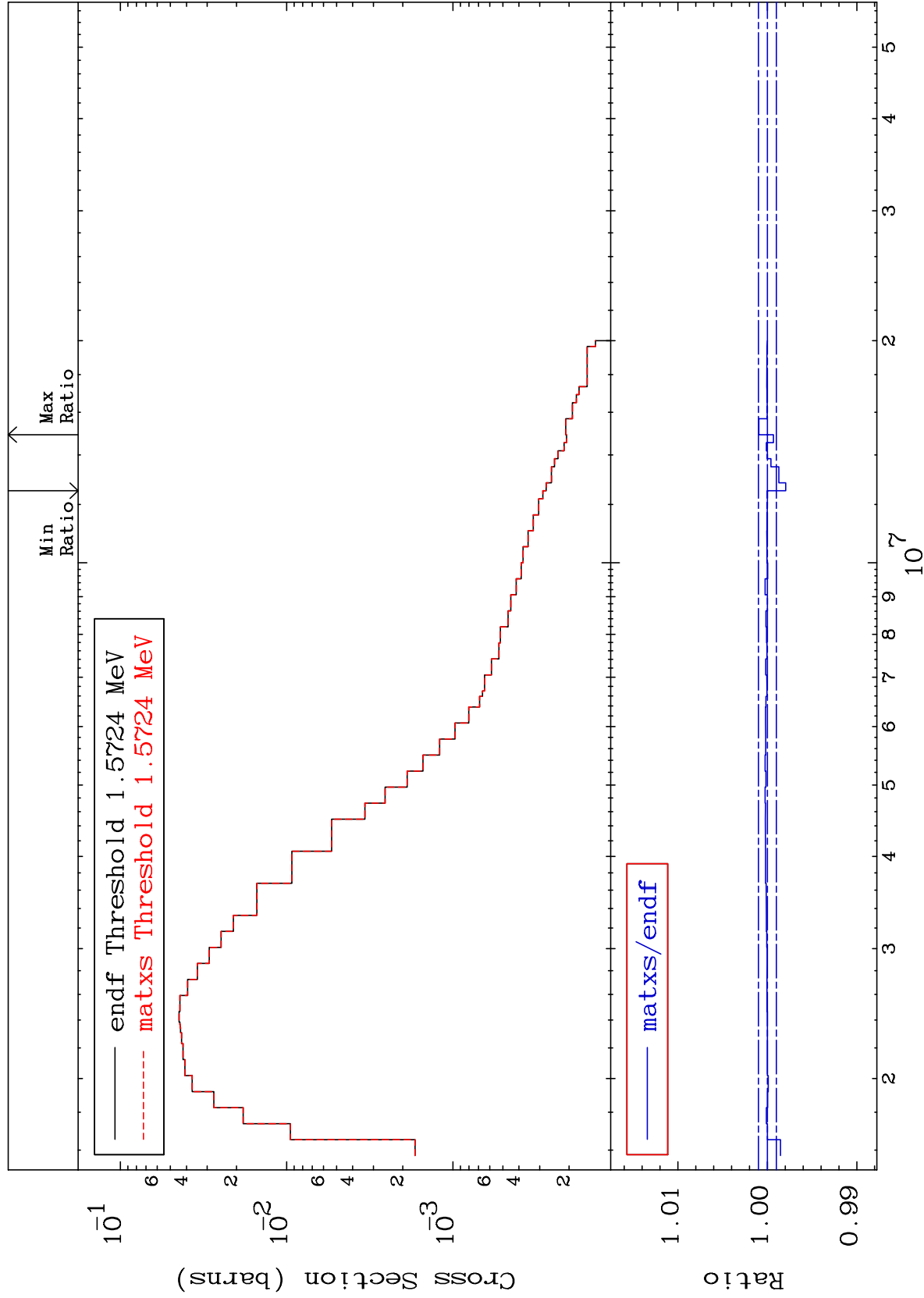
72-Hf-176
-0.223 To 0.101 %



MAT 7231

1.592 MeV (n,n') Level
Cross Section

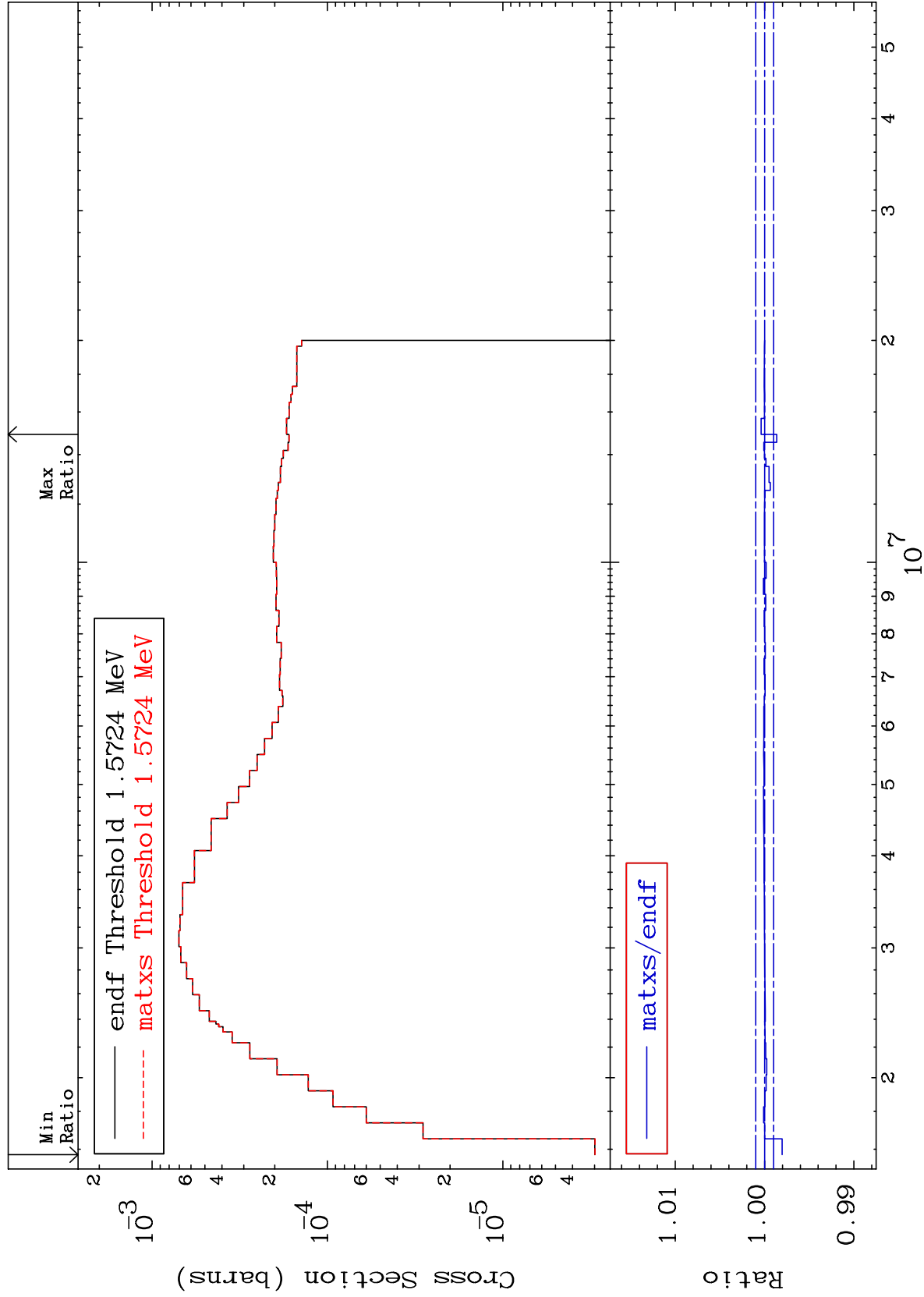
72-Hf-176
-0.206 To 0.096 %



MAT 7231

1.607 MeV (n,n') Level
Cross Section

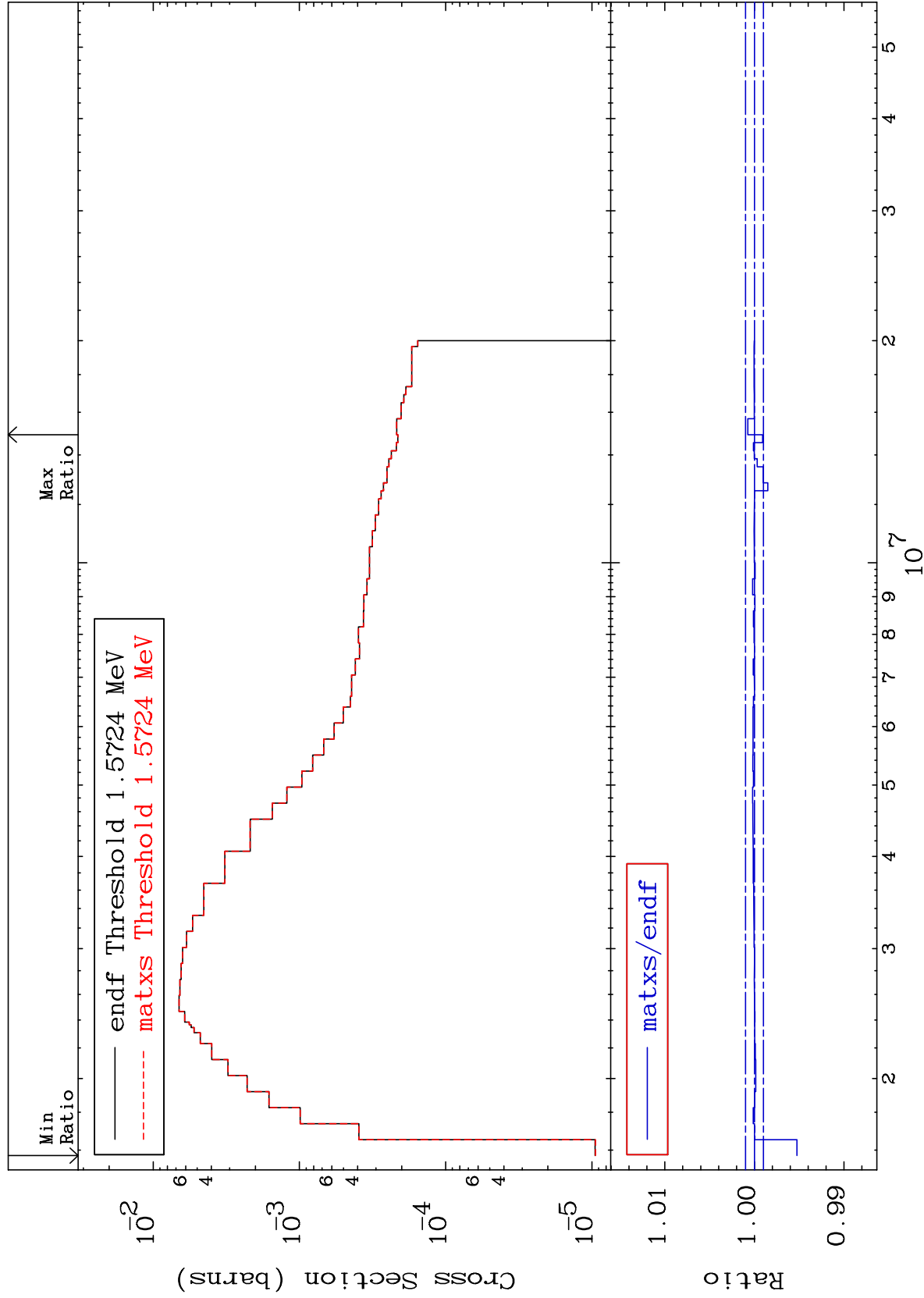
⁷²Hf-176
-0.197 To 0.039 %



MAT 7231

1.629 MeV (n,n') Level
Cross Section

72-Hf-176
-0.474 To 0.075 %



30

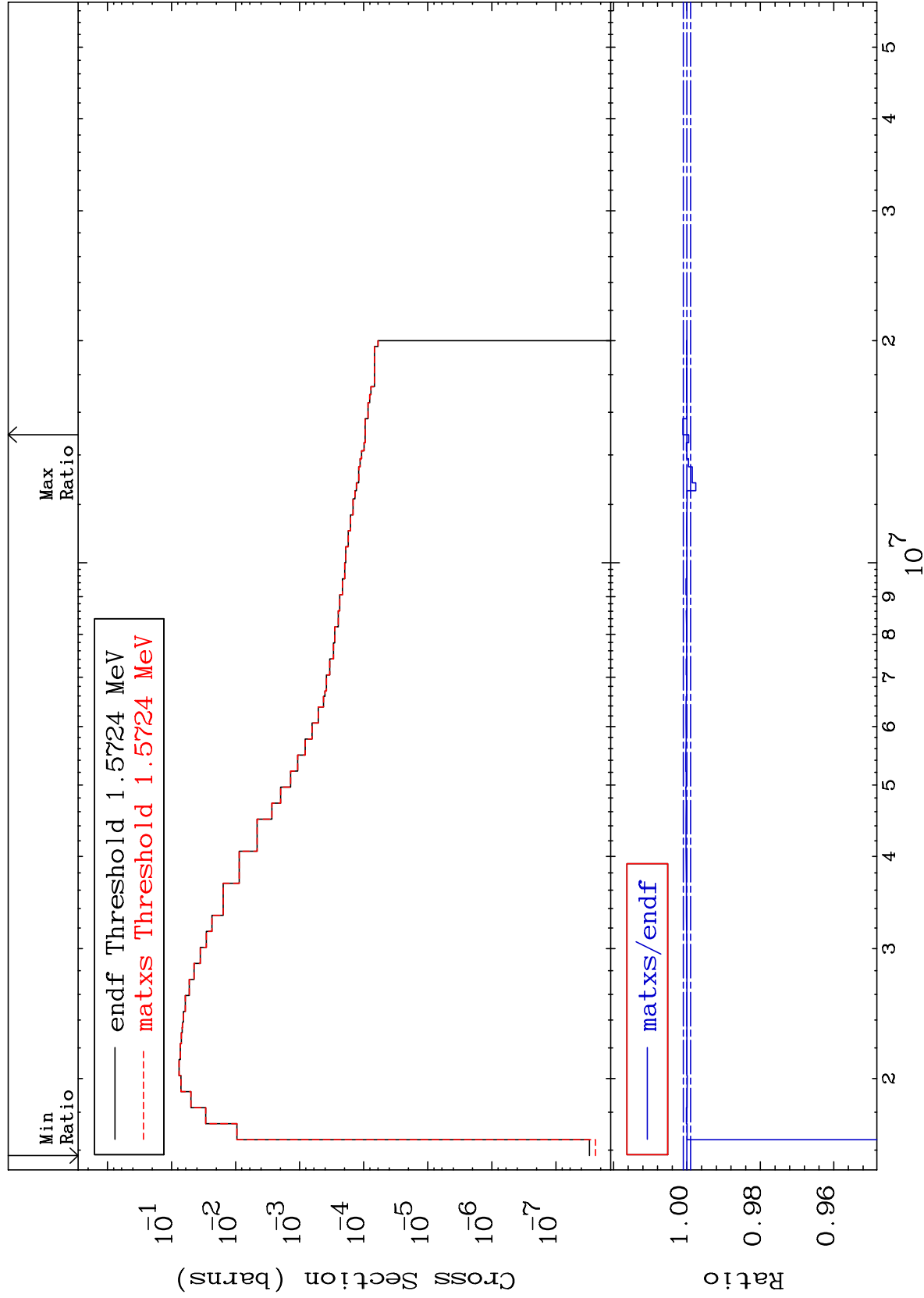
Incident Energy (eV)

72-Hf-176

MAT 7231

1.643 MeV (n,n') Level
Cross Section

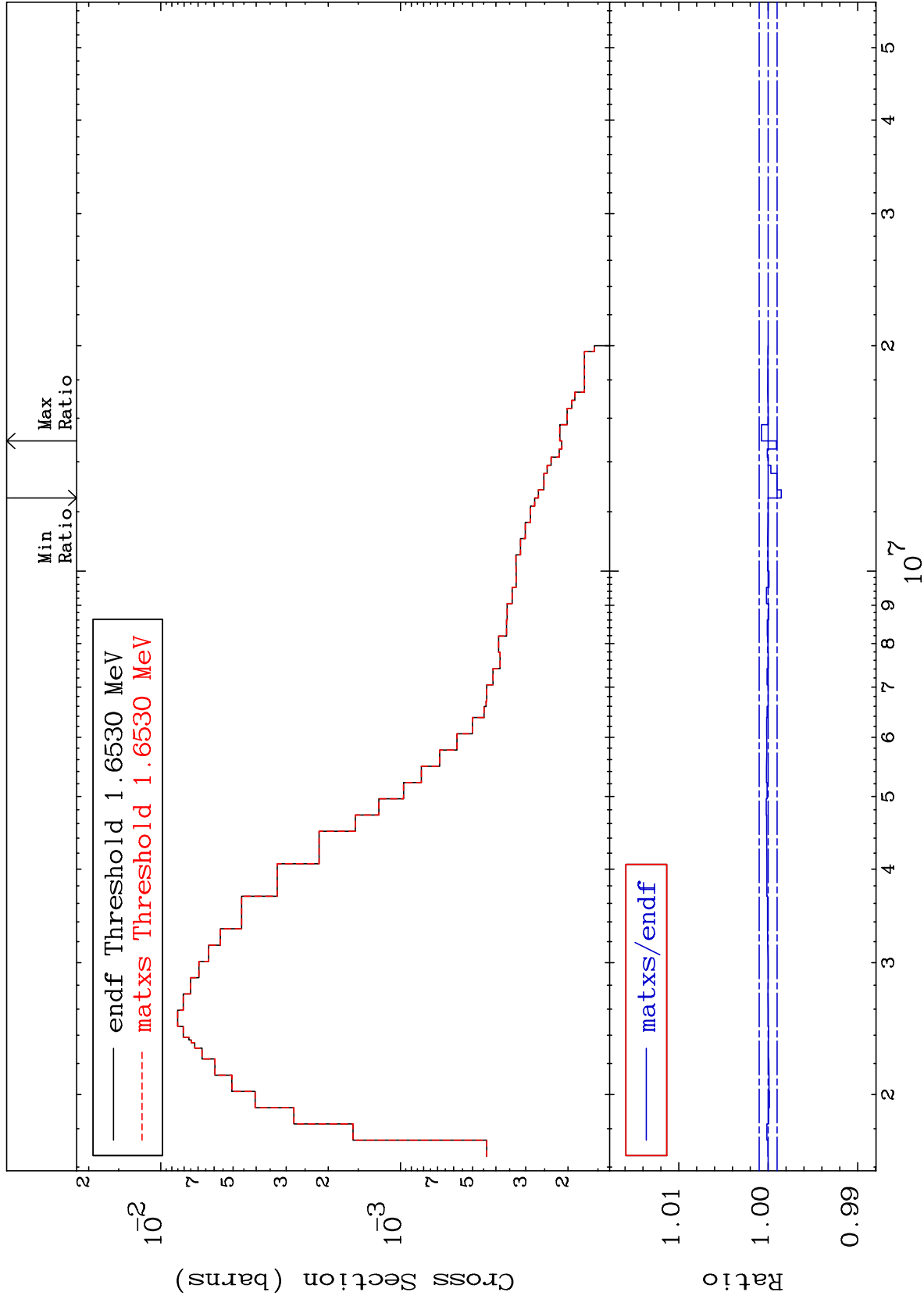
⁷²Hf-176
-19.51 To 0.109 %



MAT 7231

1.653 MeV (n,n') Level
Cross Section

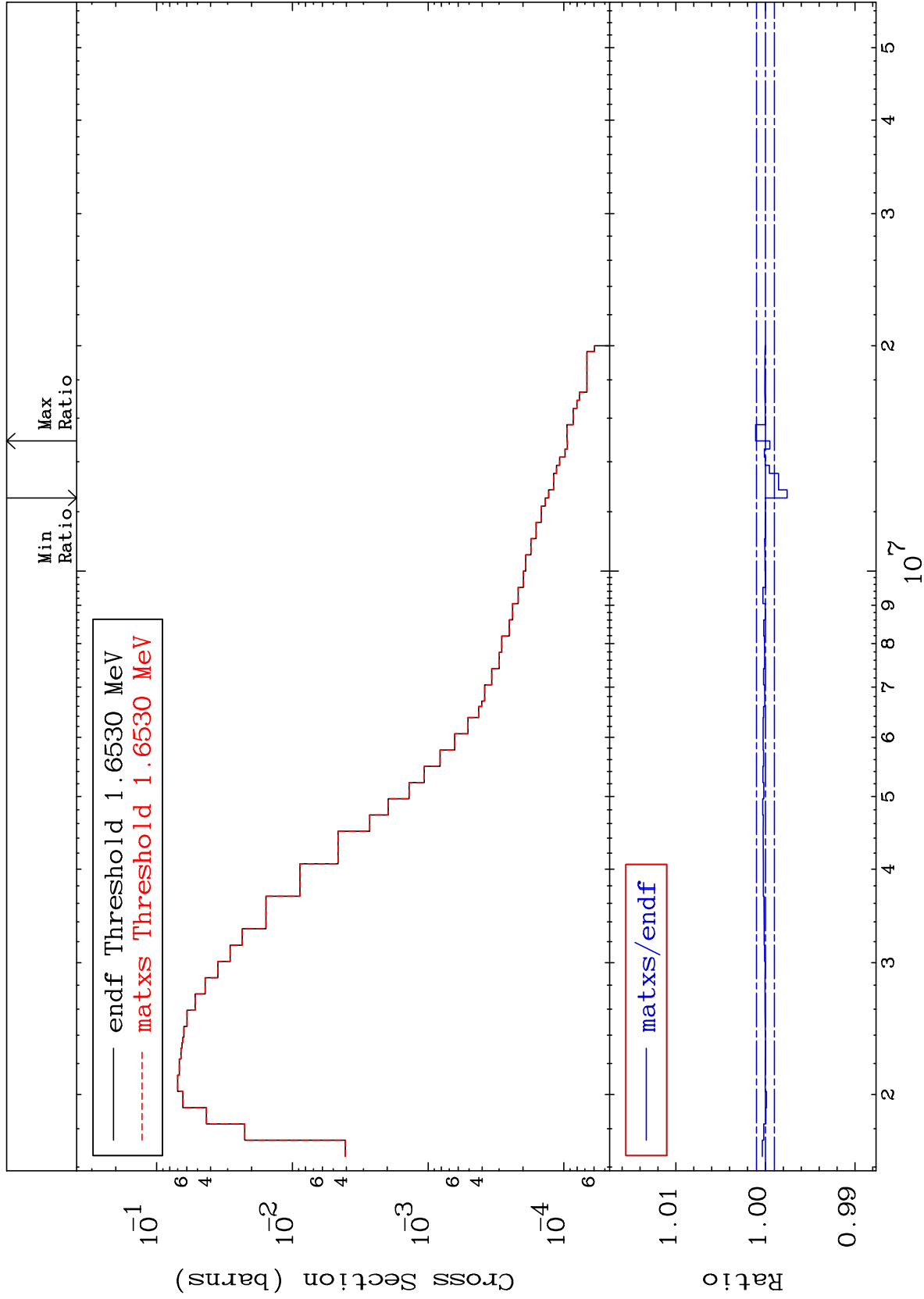
⁷²Hf-176
-0.147 To 0.075 %



MAT 7231

1.672 MeV (n,n') Level
Cross Section

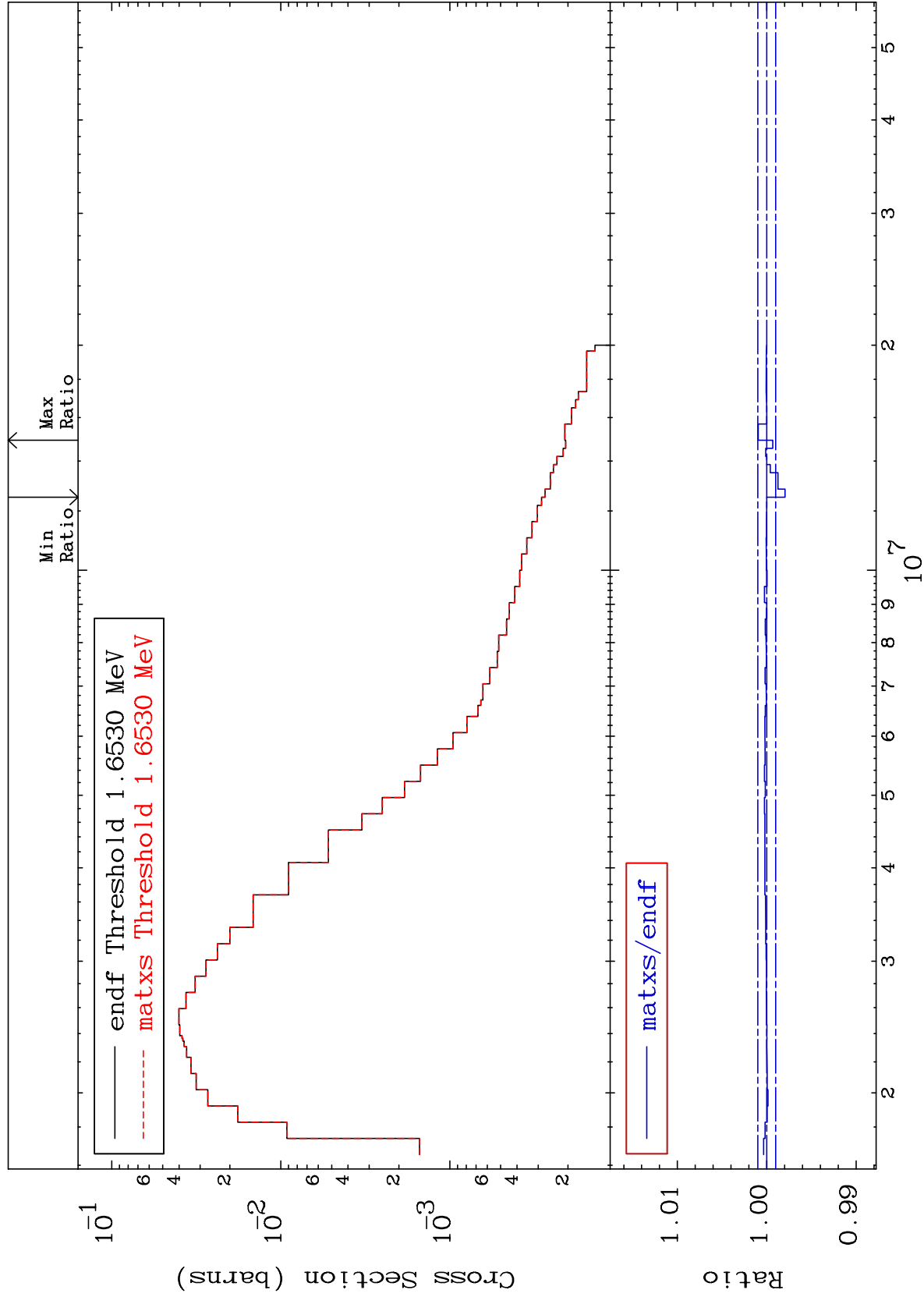
72-Hf-176
-0.243 To 0.109 %



MAT 7231

1.676 MeV (n,n') Level
Cross Section

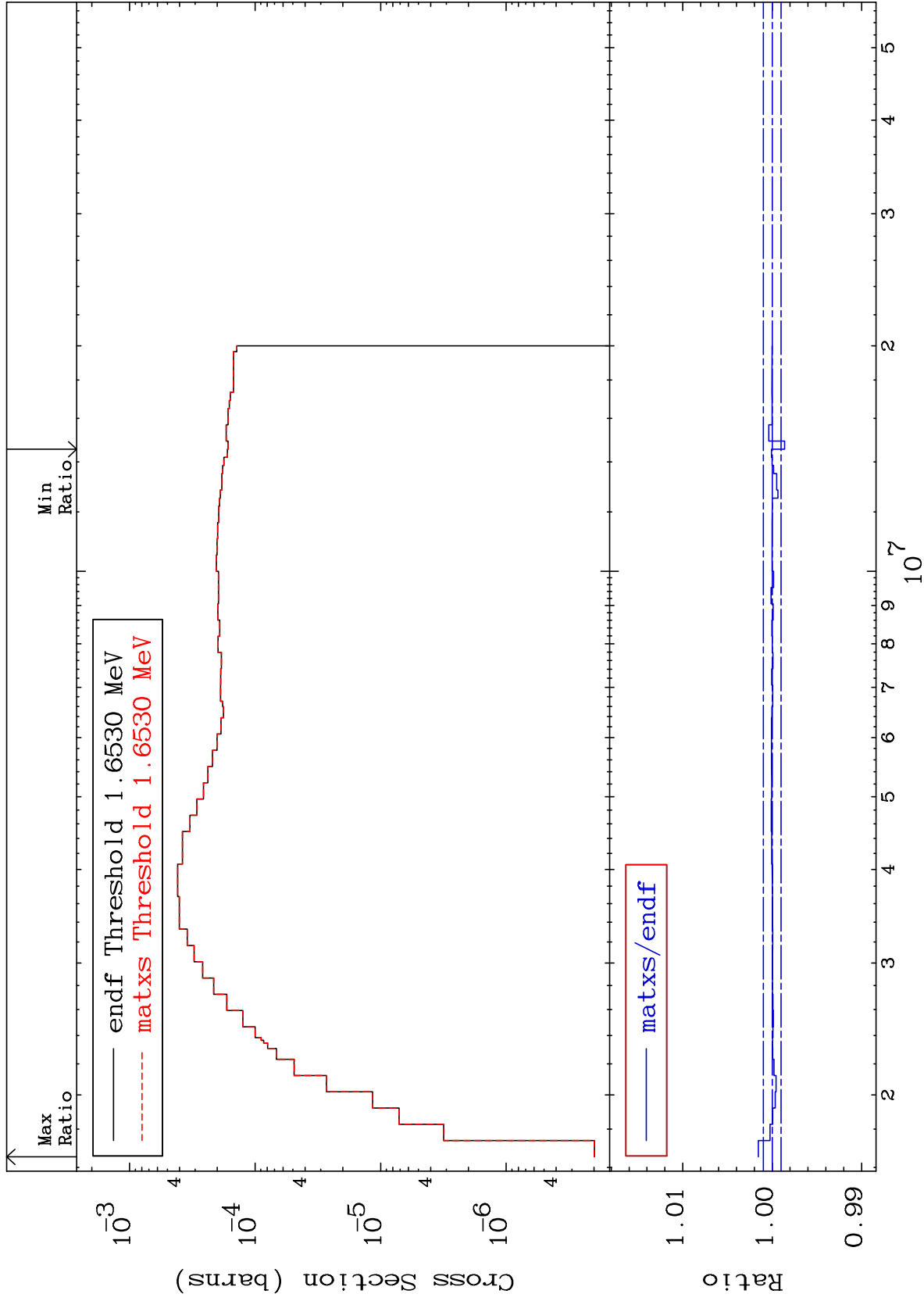
72-Hf-176
-0.205 To 0.095 %



MAT 7231

1.700 MeV (n,n') Level
Cross Section

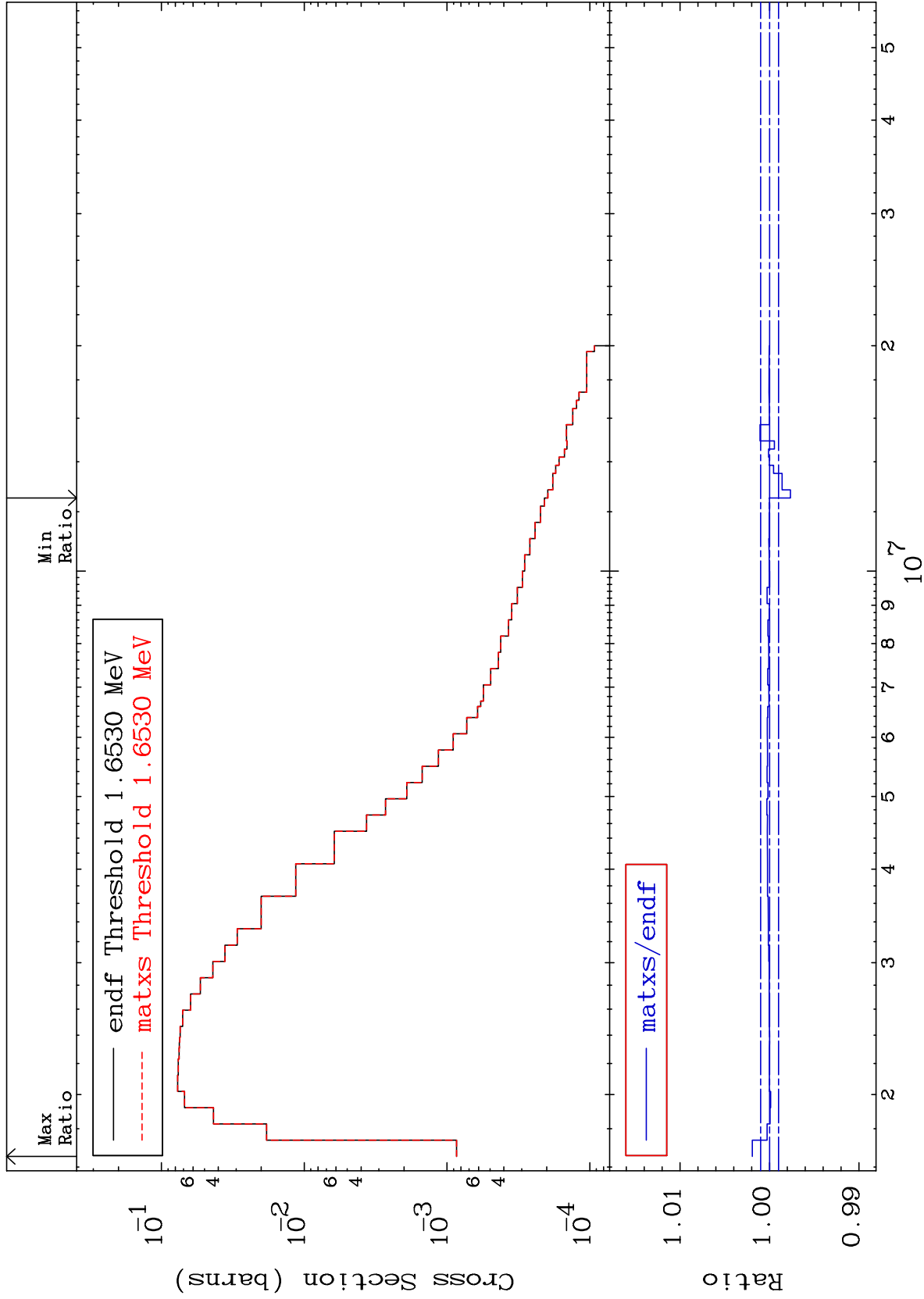
72-Hf-176
-0.138 To 0.156 %



MAT 7231

1.705 MeV (n,n') Level
Cross Section

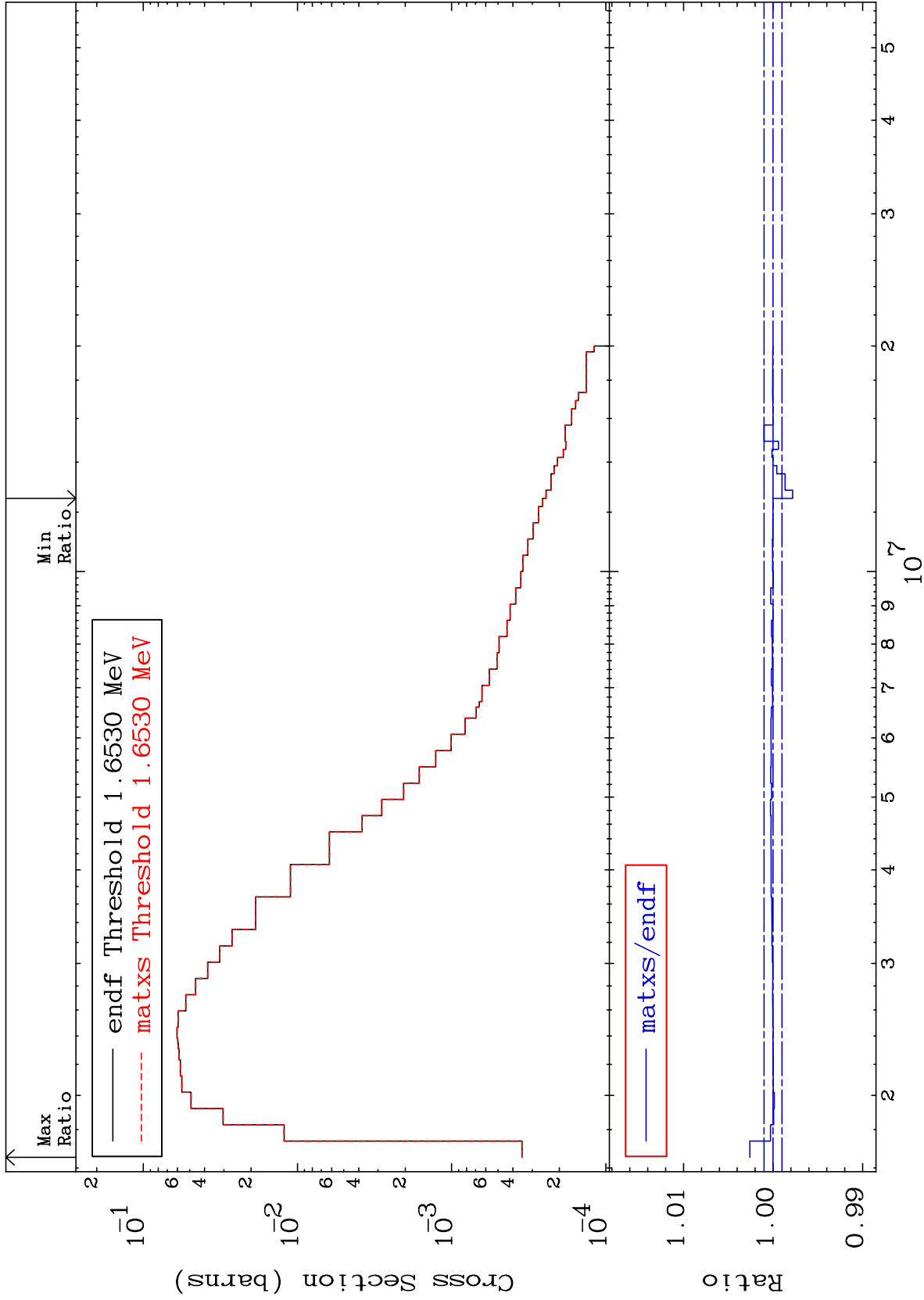
72-Hf-176
-0.234 To 0.191 %



MAT 7231

1.710 MeV (n,n') Level
Cross Section

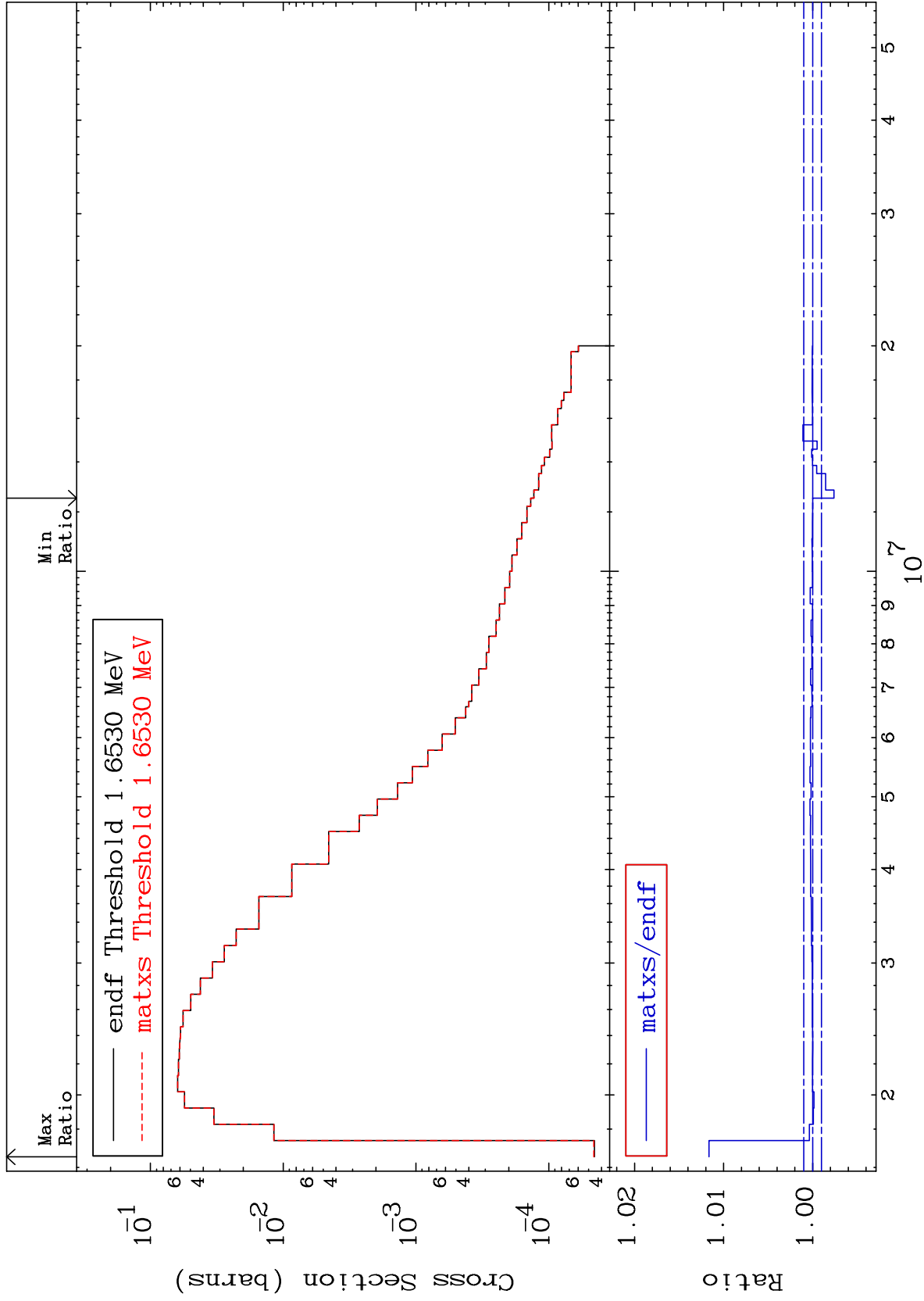
72-Hf-176
-0.220 To 0.260 %



MAT 7231

1.722 MeV (n,n') Level
Cross Section

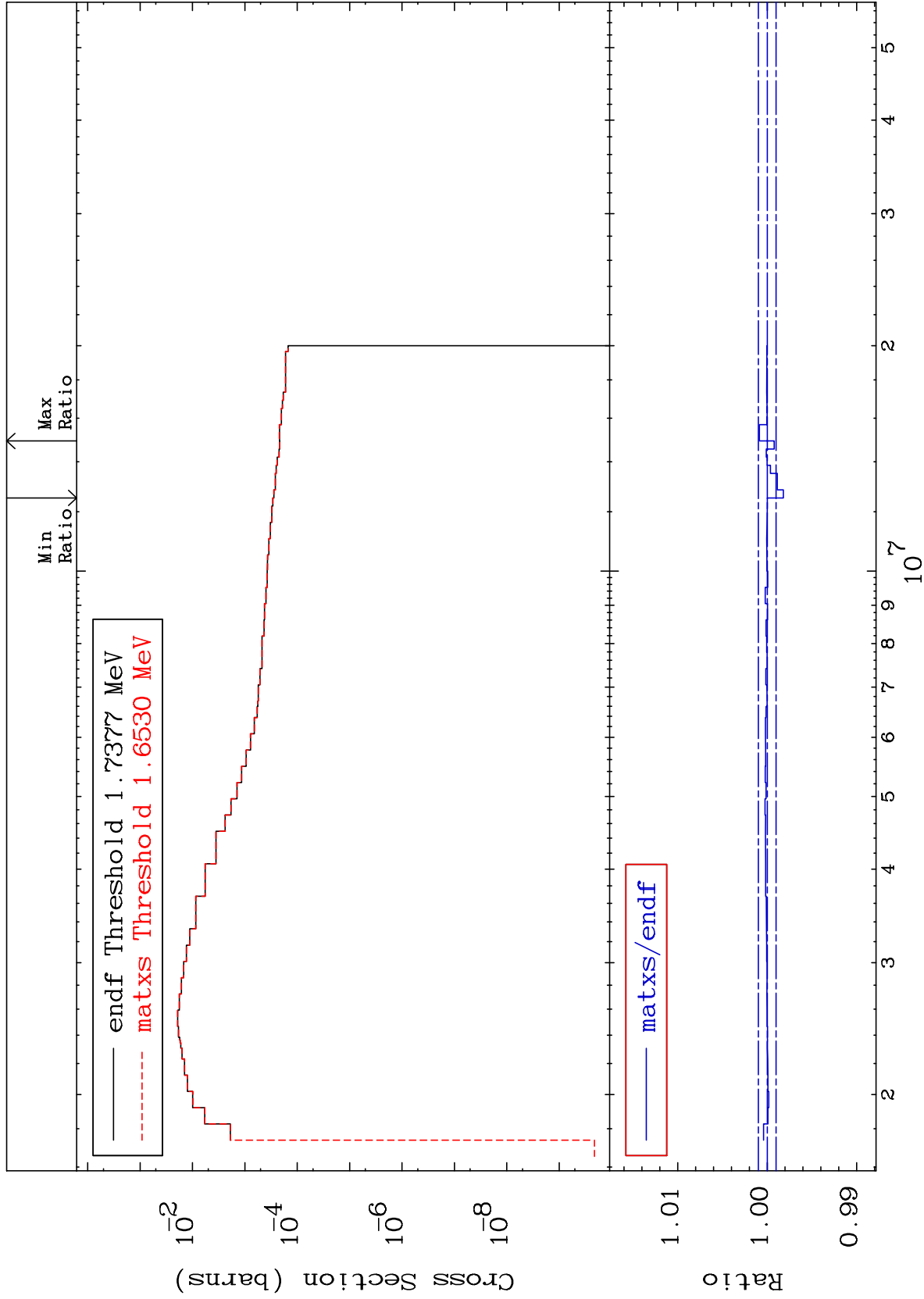
72-Hf-176
-0.239 To 1.165 %



MAT 7231

1.728 MeV (n,n') Level
Cross Section

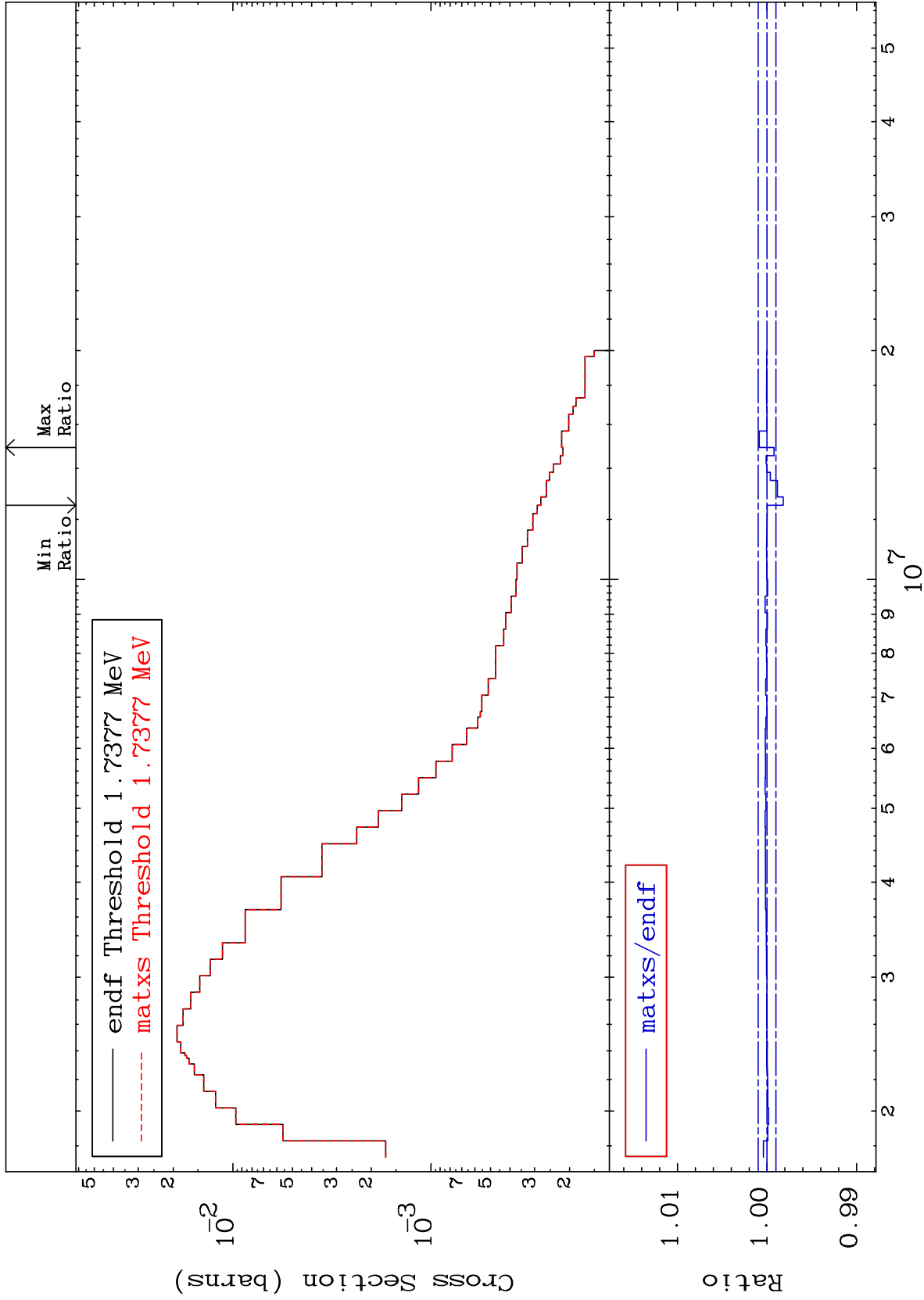
72-Hf-176
-0.180 To 0.087 %



MAT 7231

1.732 MeV (n,n') Level
Cross Section

⁷²Hf-176
-0.180 To 0.086 %



40

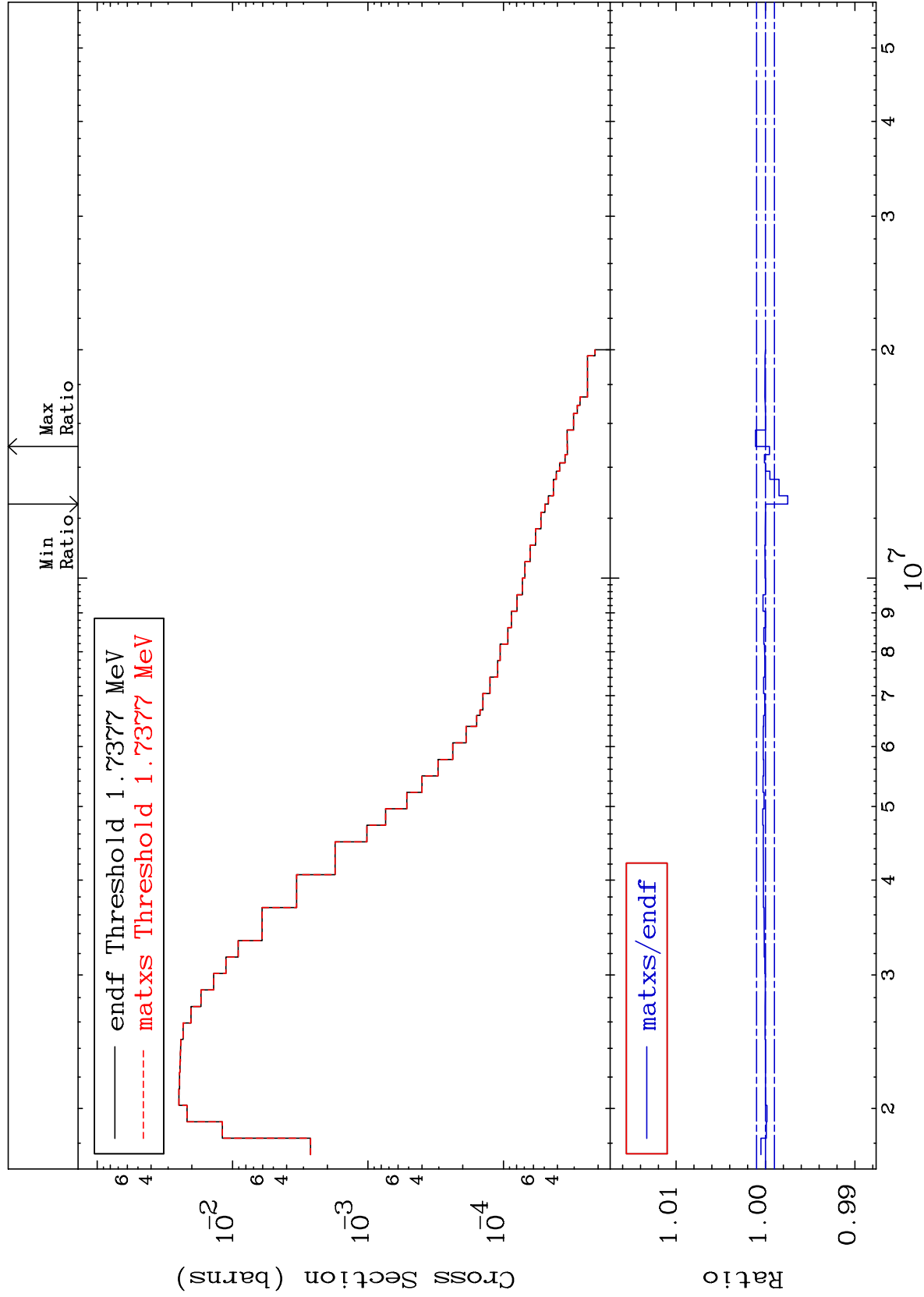
Incident Energy (eV)

⁷²Hf-176

MAT 7231

1.749 MeV (n,n') Level
Cross Section

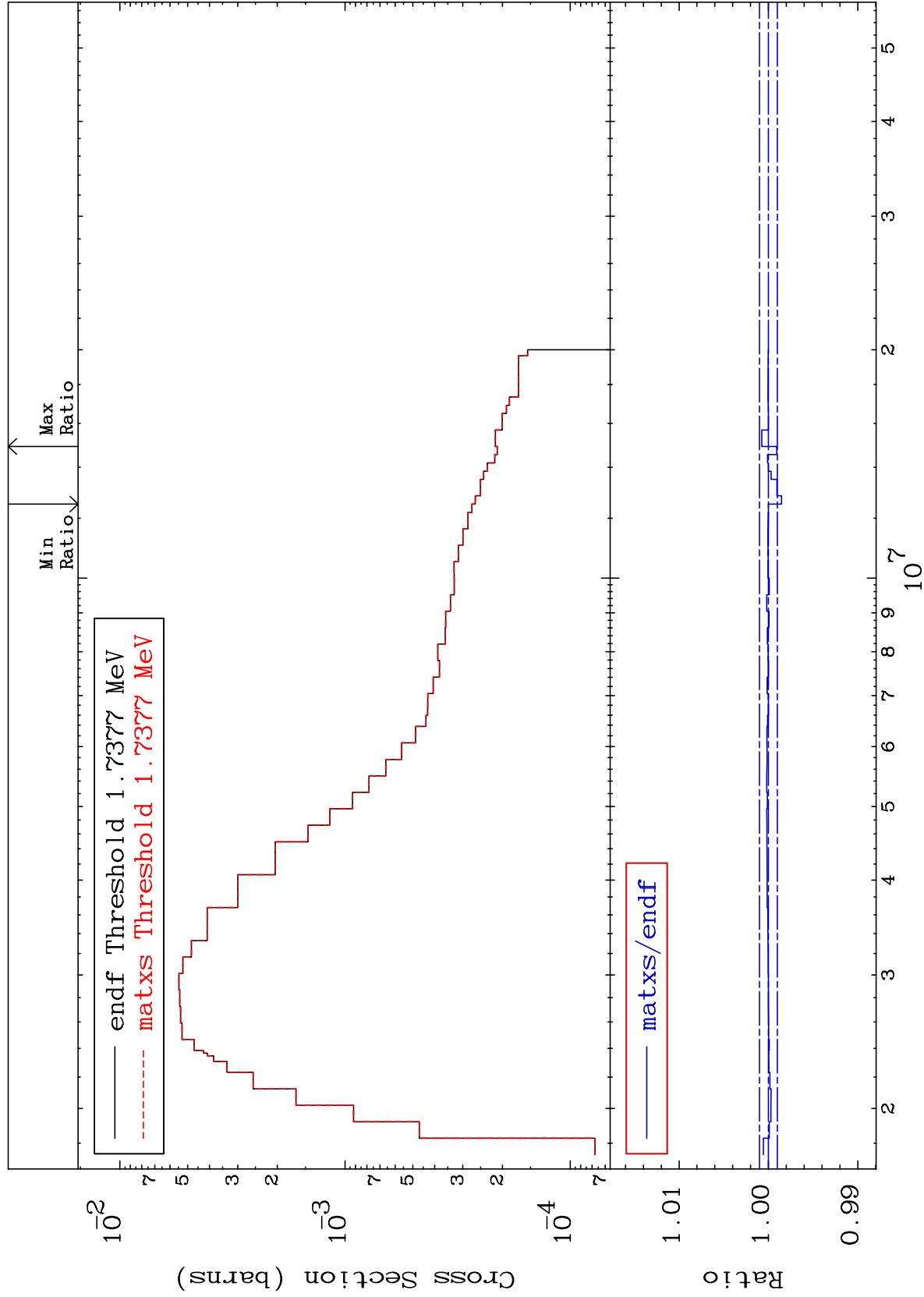
72-Hf-176
-0.249 To 0.112 %



MAT 7231

1.761 MeV (n,n') Level
Cross Section

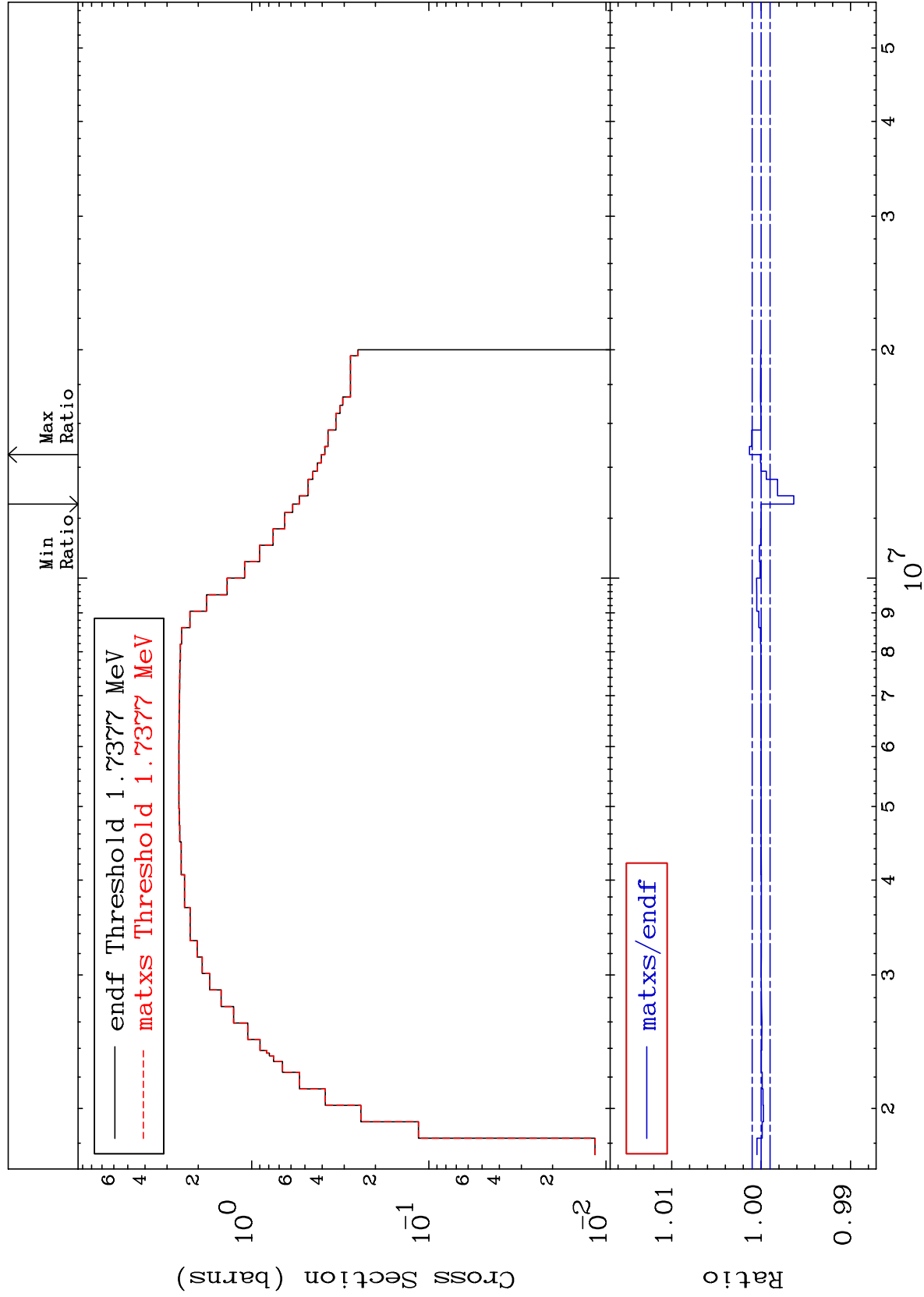
72-Hf-176
-0.147 To 0.075 %



MAT 7231

(n,n') Continuum
Cross Section

72-Hf-176
-0.366 To 0.129 %



43

72-Hf-176

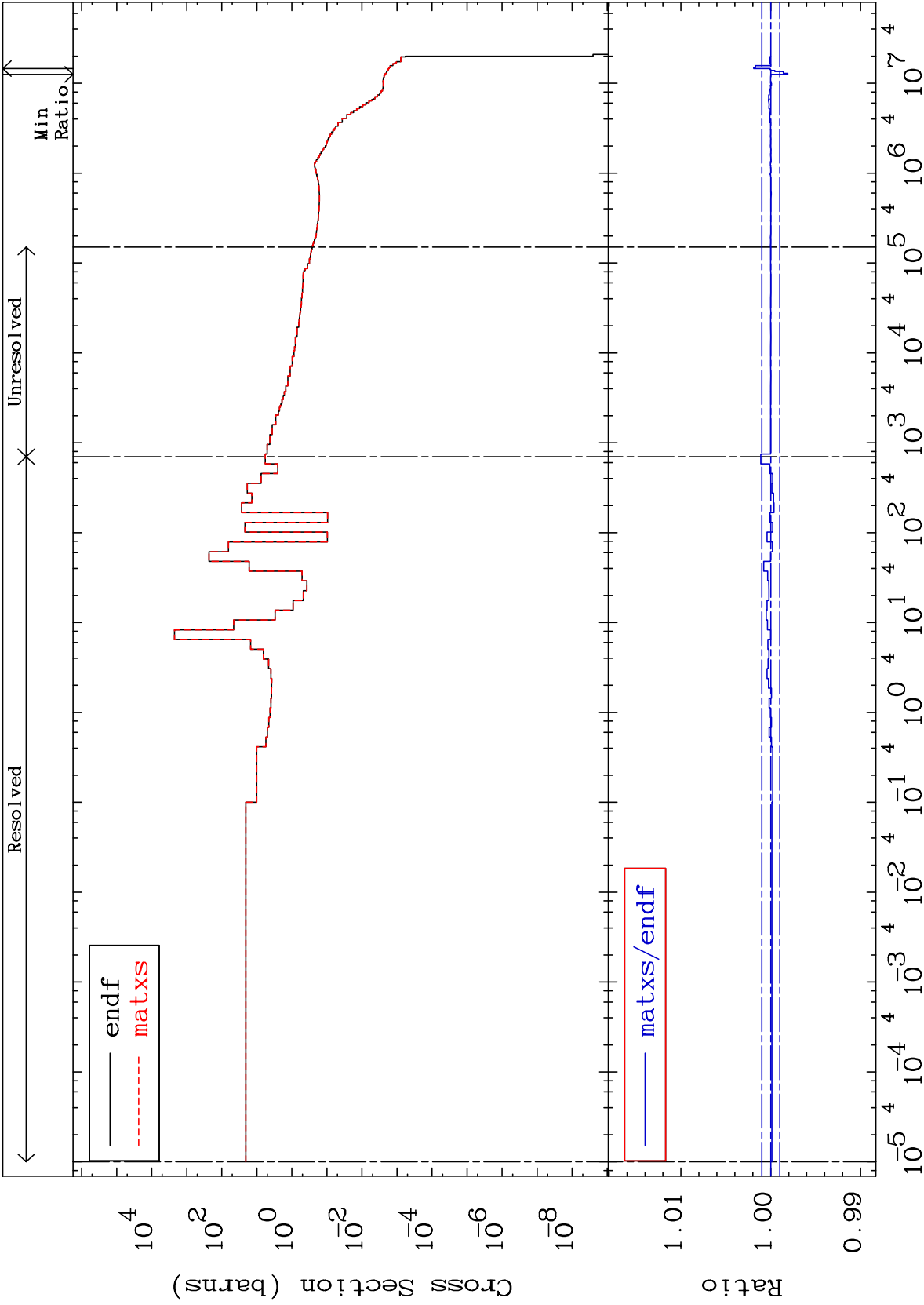
MAT 7231

(n, γ)

72-Hf-176

Cross Section

-0.190 To 0.190 %



44

Incident Energy (eV)

72-Hf-176

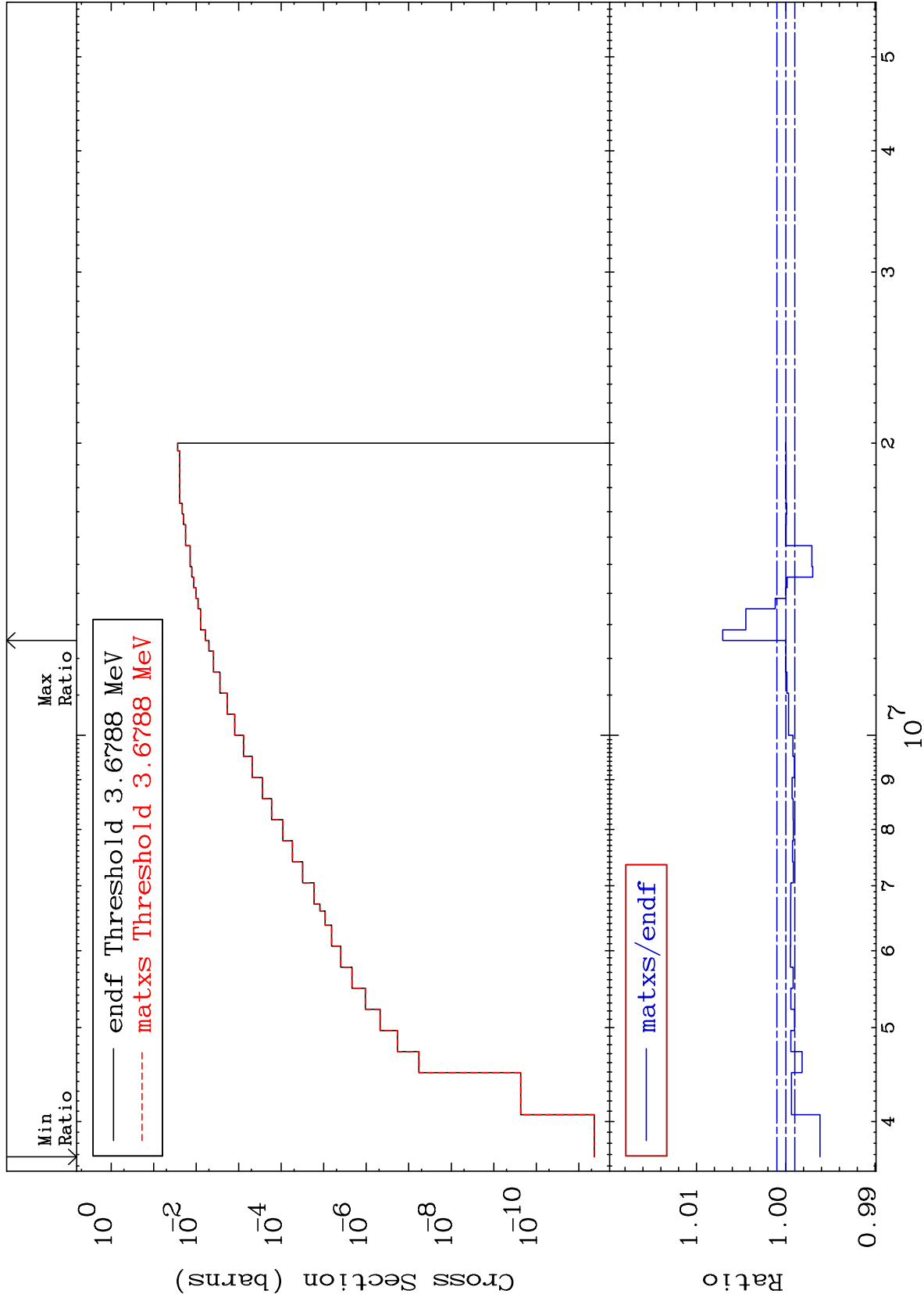
MAT 7231

(n,p)

⁷²Hf-176

Cross Section

-0.383 To 0.705 %



45

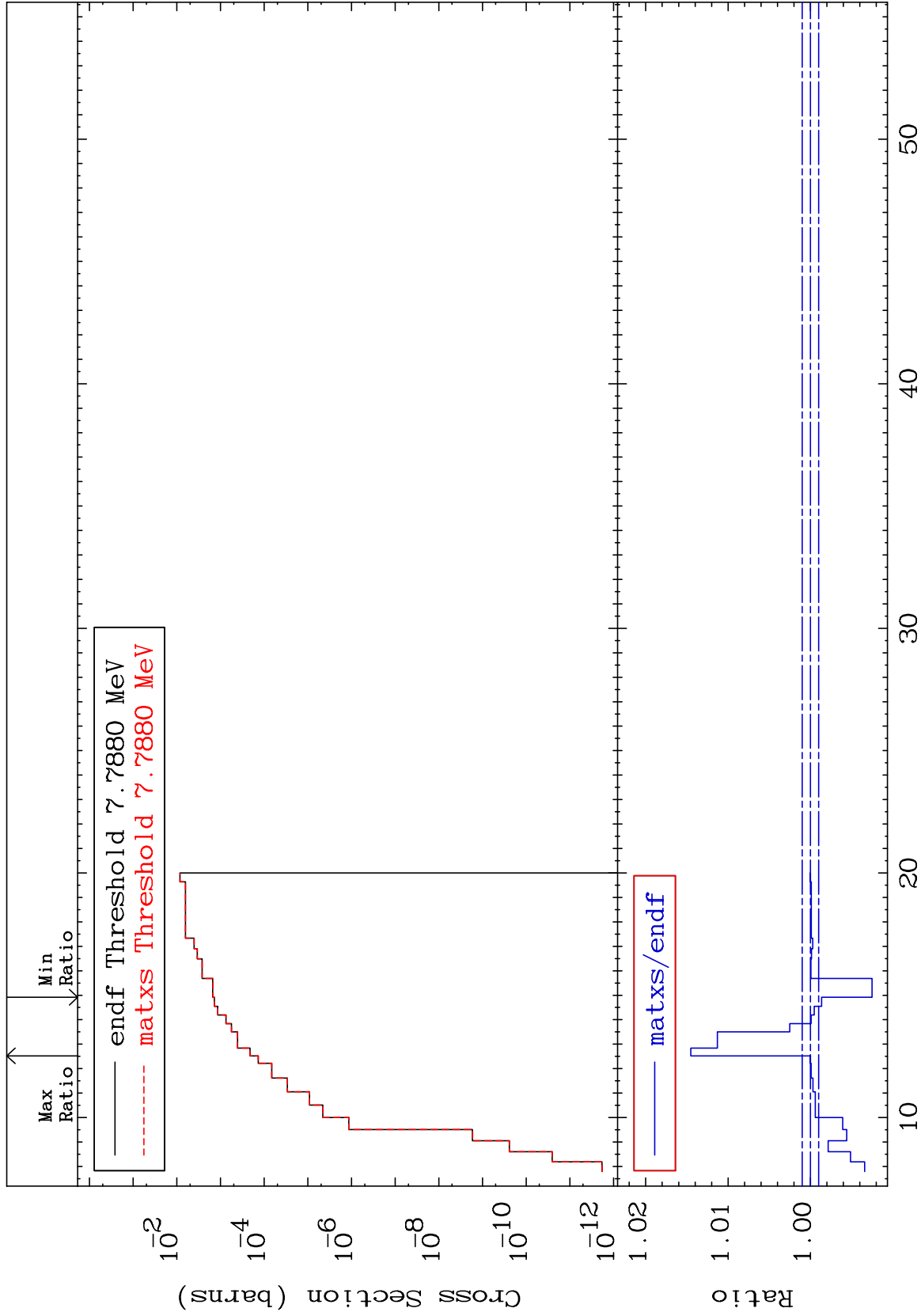
Incident Energy (eV)

⁷²Hf-176

MAT 7231

(n, d)
Cross Section

⁷²Hf-176
-0.749 To 1.452 %



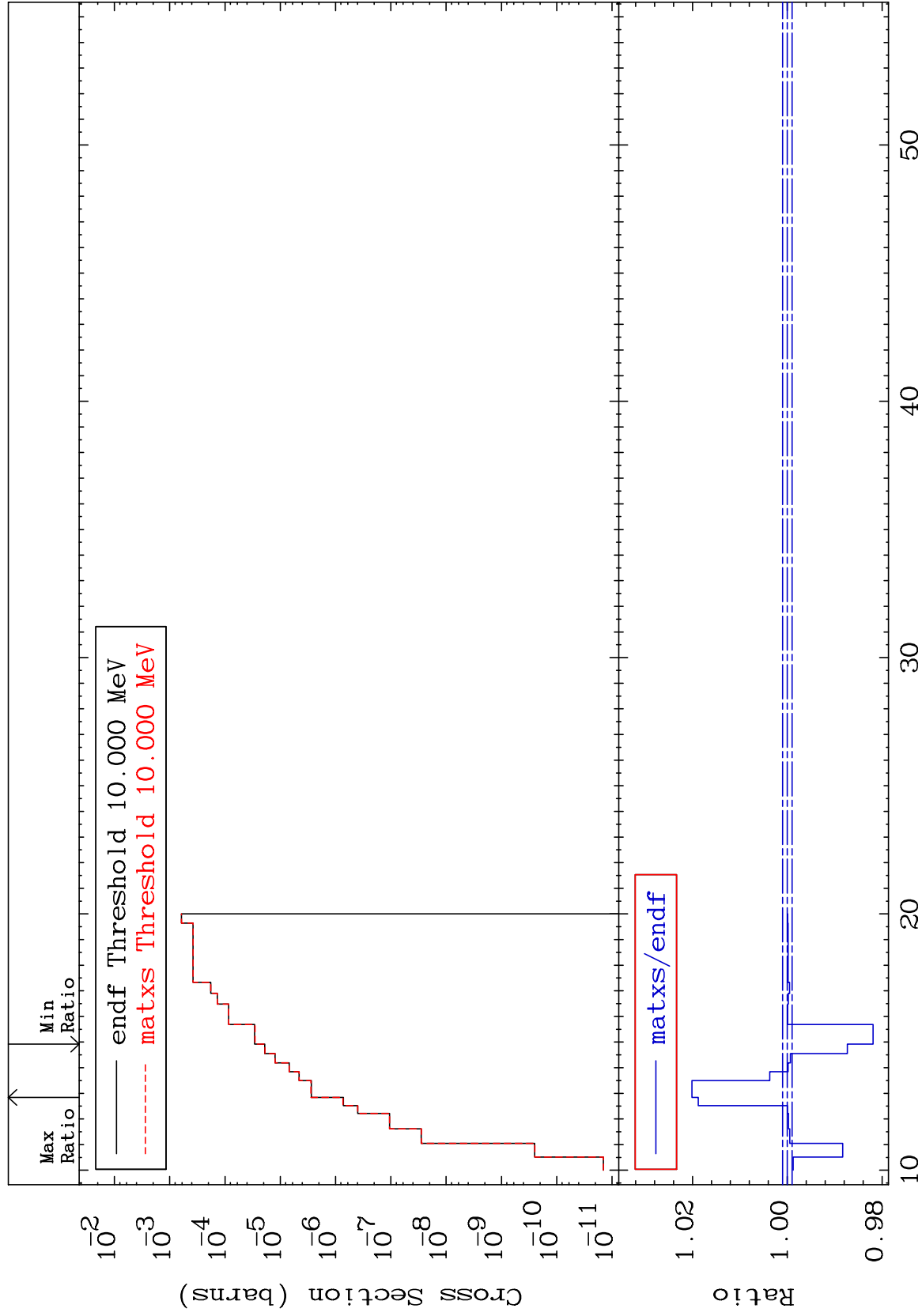
MAT 7231

(n, t)

72-Hf-176

Cross Section

-1.808 To 2.010 %



47

Incident Energy (MeV)

72-Hf-176

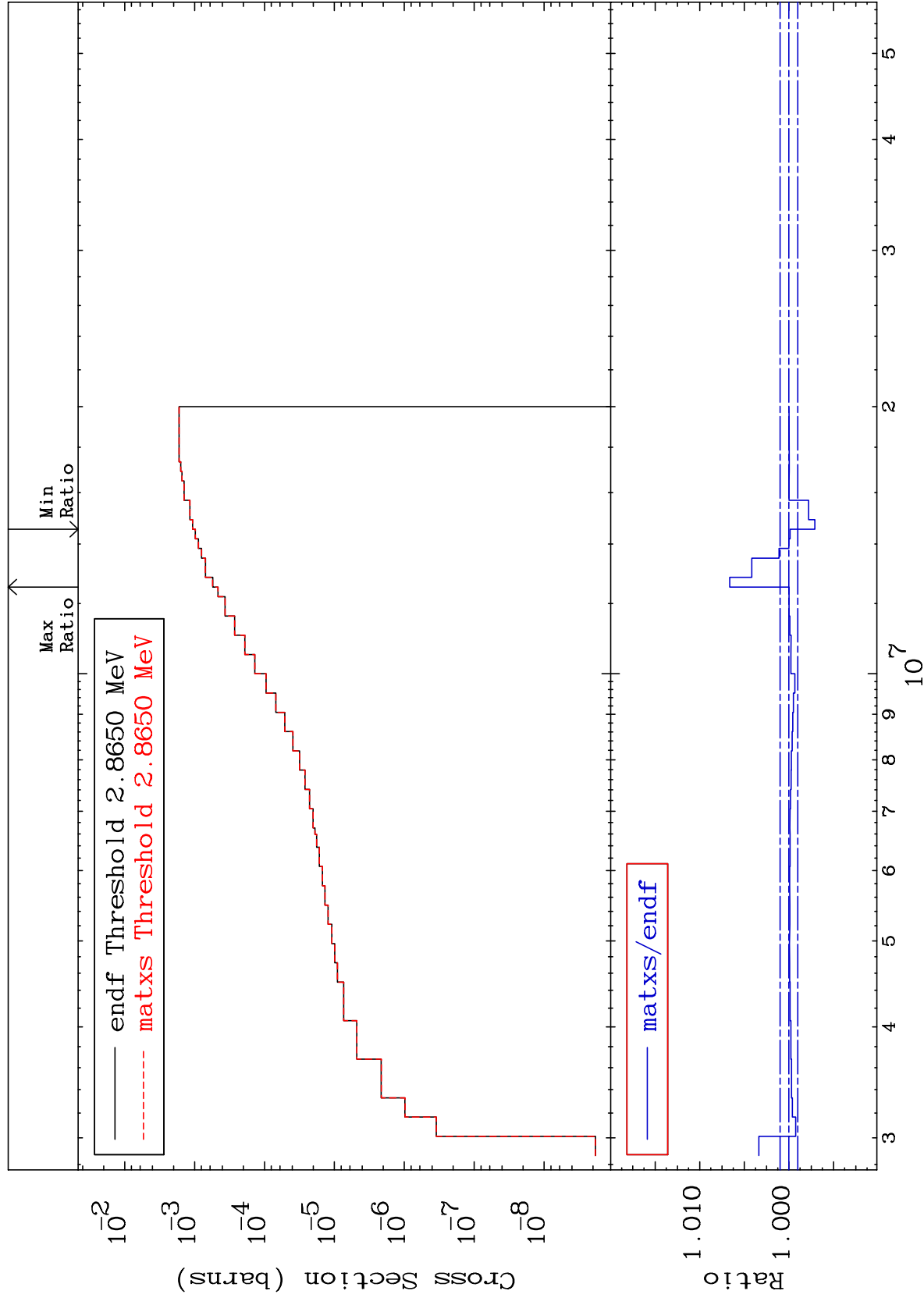
MAT 7231

(n, α)

72-Hf-176

Cross Section

-0.290 To 0.663 %



48

Incident Energy (eV)

72-Hf-176