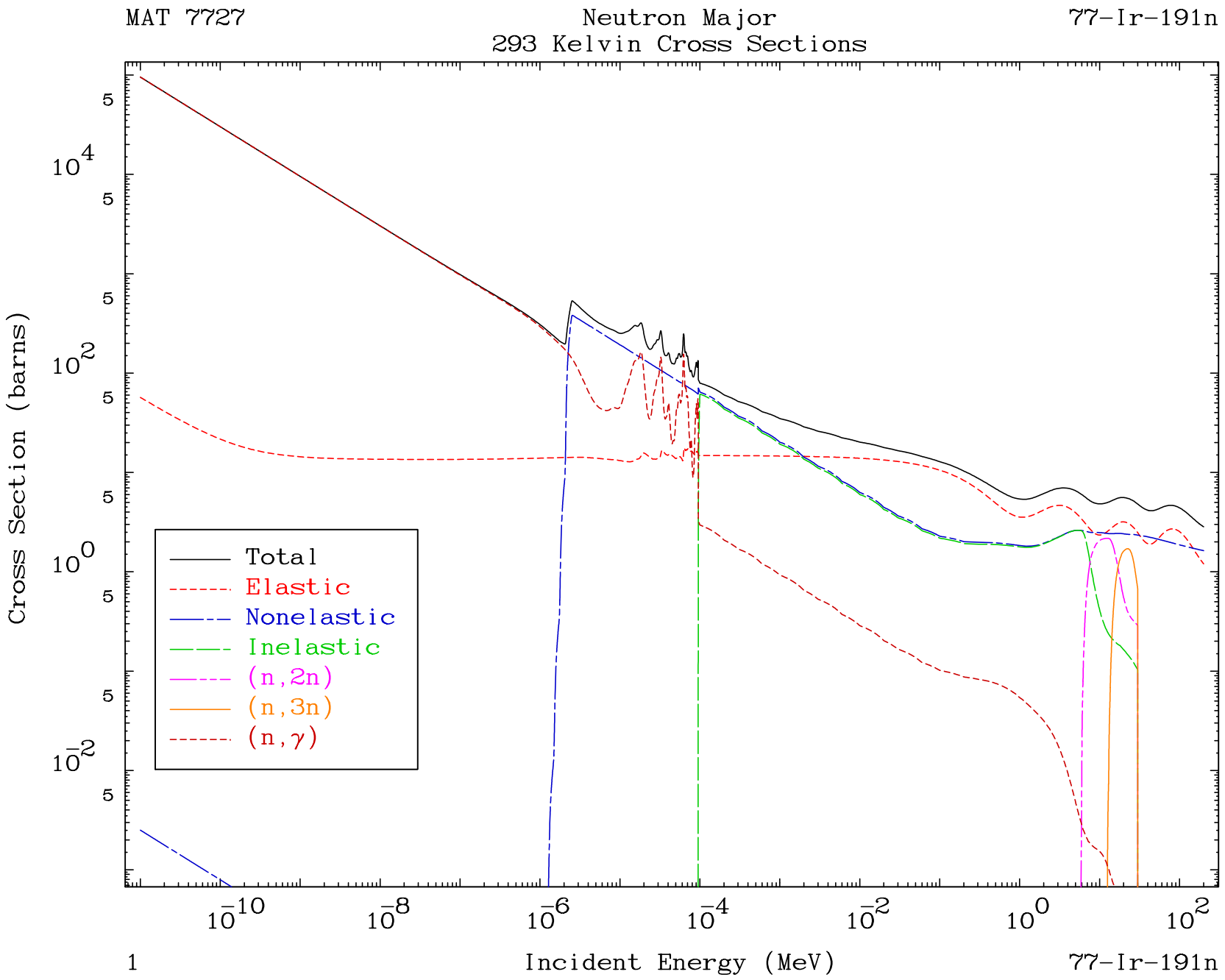
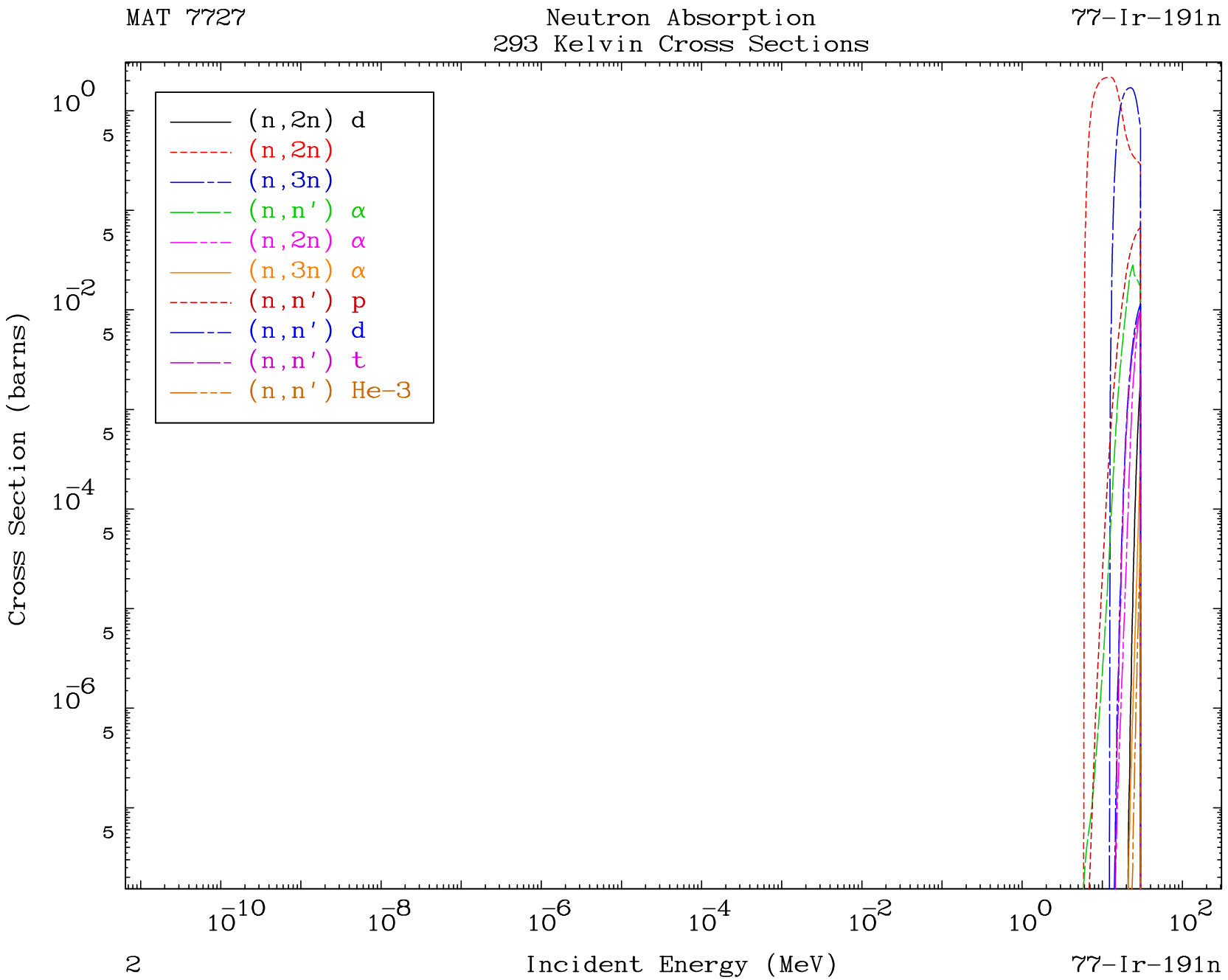
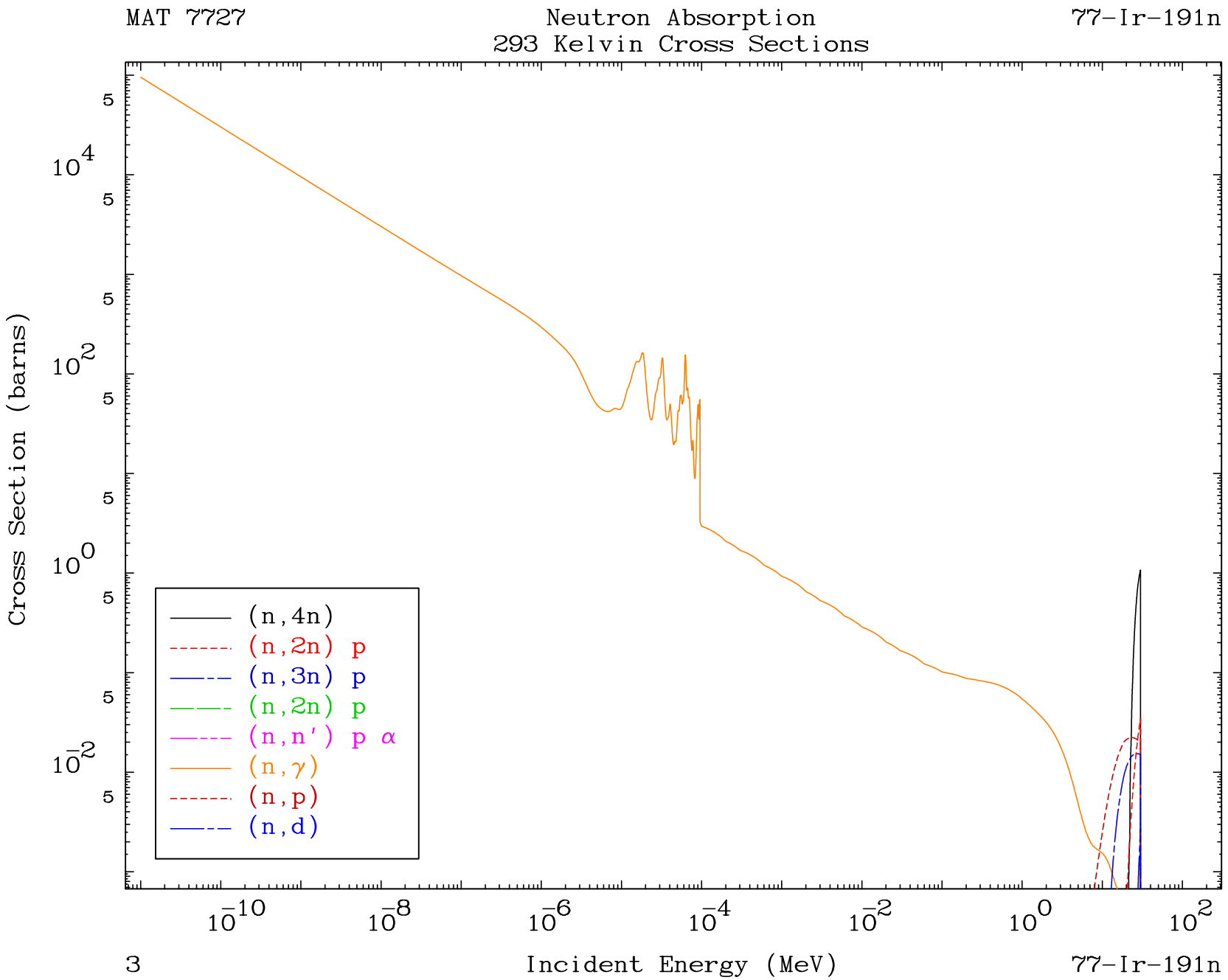
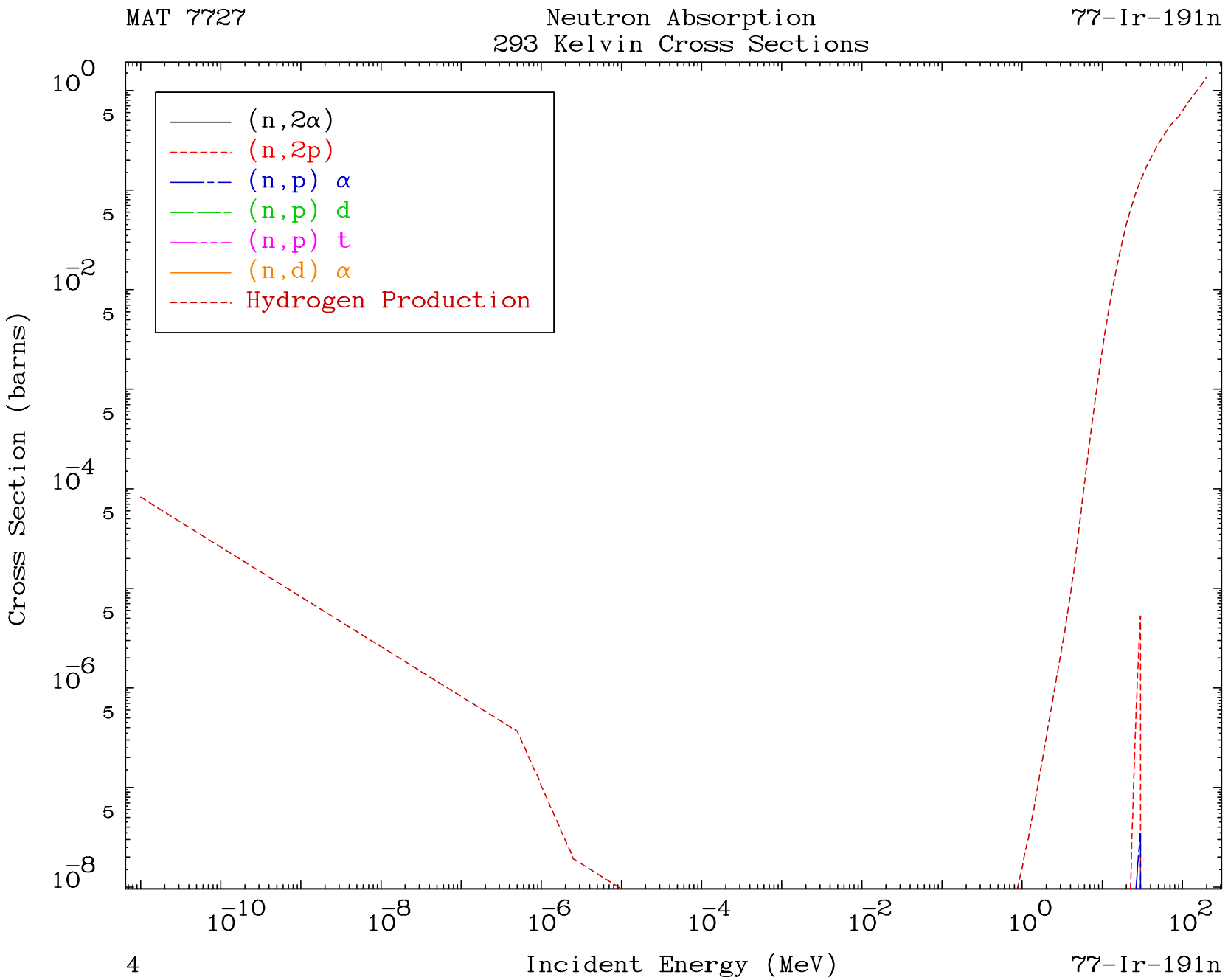
Program EVALPLOT
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

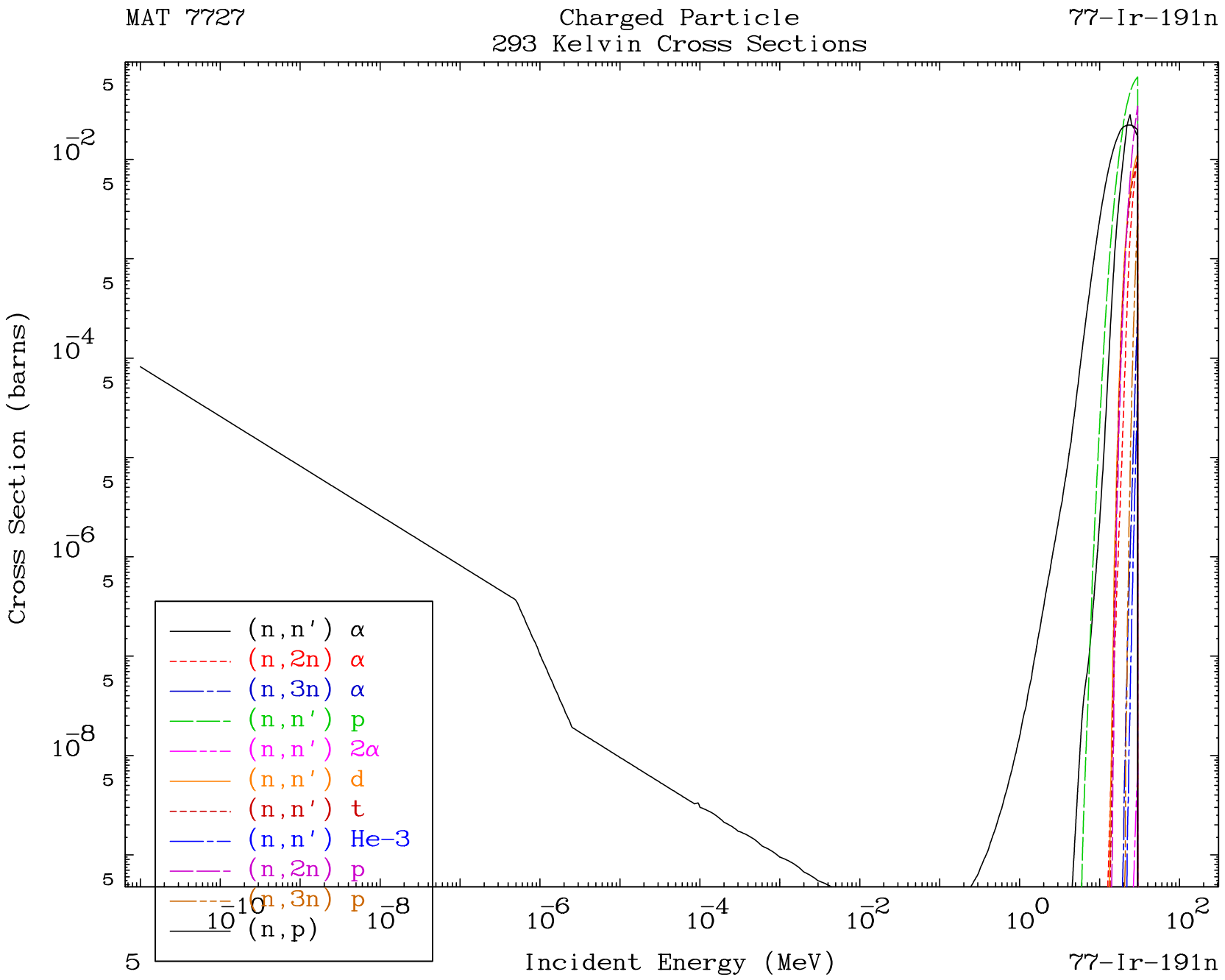
Press Mouse Button to Start

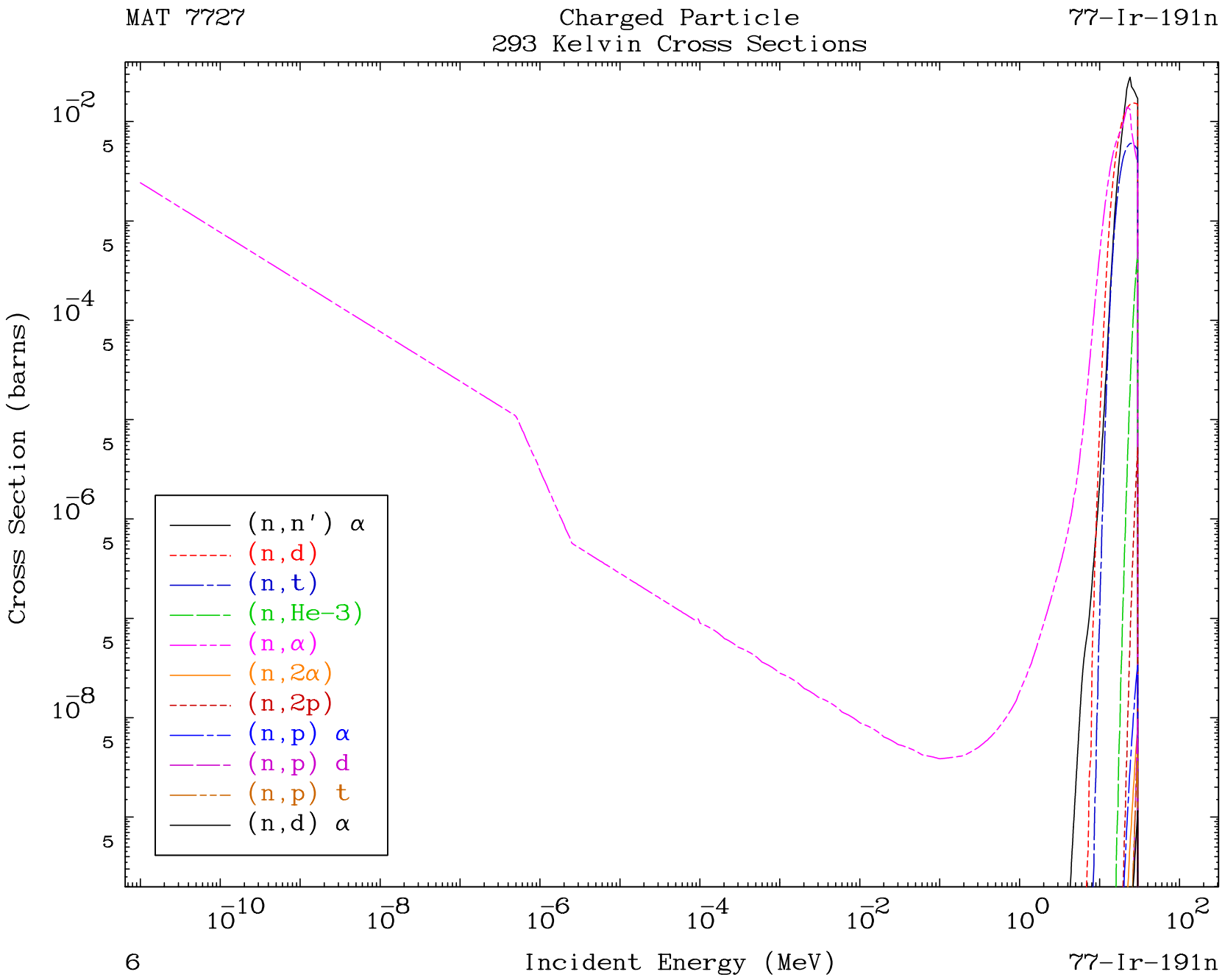

MAT 7727
Neutron Major
293 Kelvin Cross Sections
77-Ir-191n
Cross Section (barns)
Incident Energy (MeV)
Total
Elastic
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)
77-Ir-191n
1

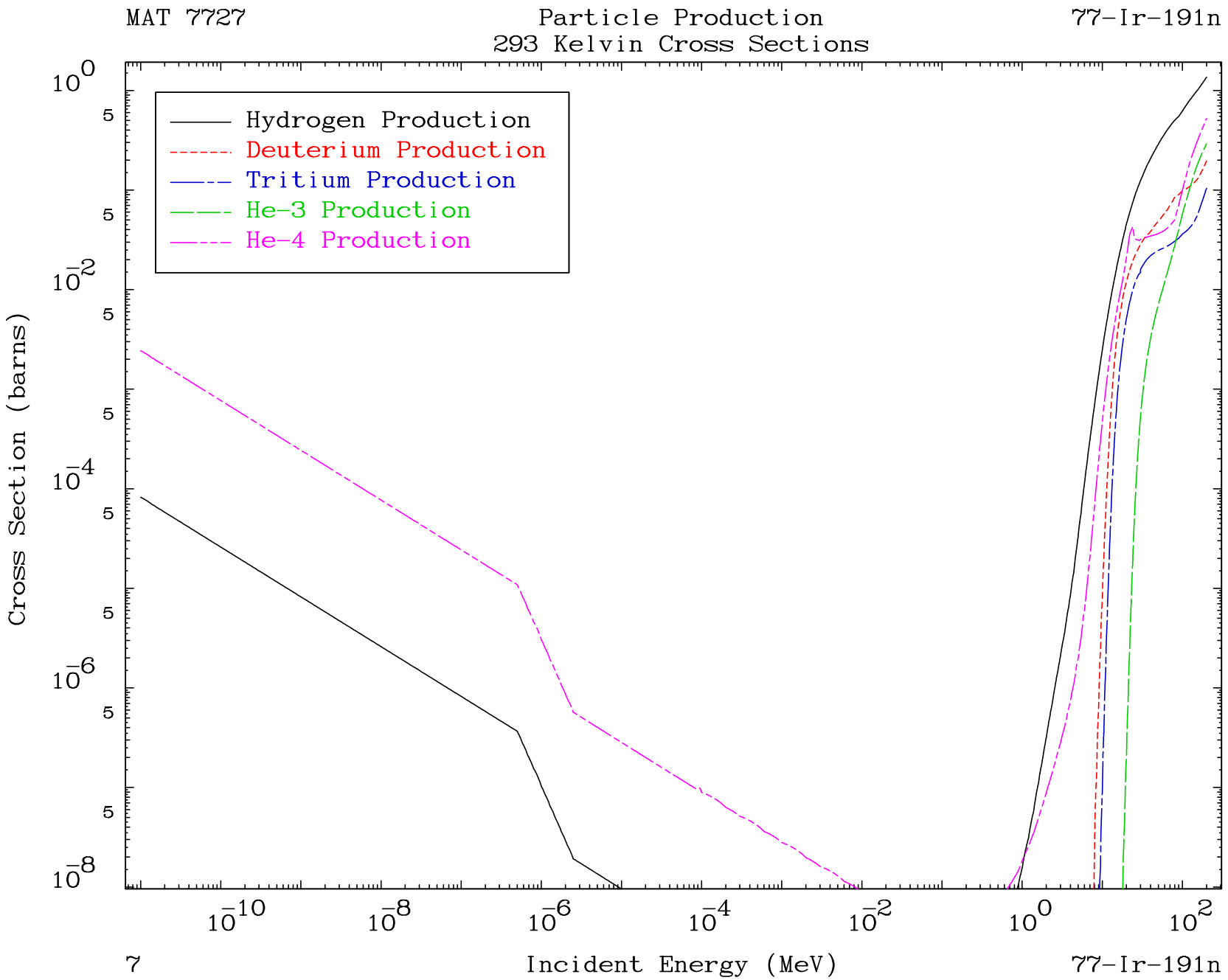

MAT 7727
Neutron Absorption
293 Kelvin Cross Sections
77-Ir-191n
(n,2n) d
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') d
(n,n') t
(n,n') He-3
Cross Section (barns)
Incident Energy (MeV)
77-Ir-191n
2

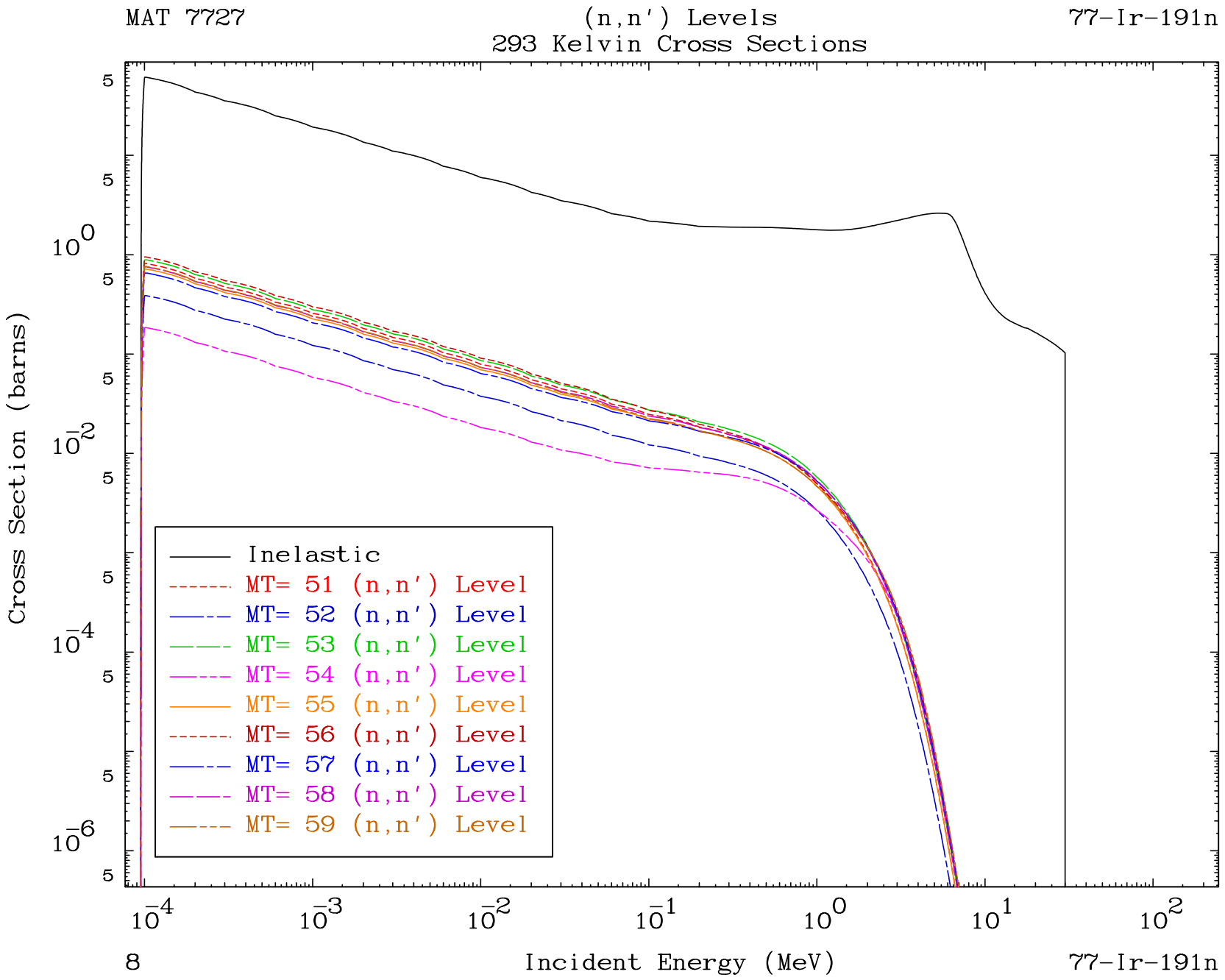

MAT 7727
Neutron Absorption
293 Kelvin Cross Sections
77-Ir-191n
Cross Section (barns)
10^4
10^2
10^0
10^-2
(n,4n)
(n,2n) p
(n,3n) p
(n,2n) p
(n,n') p α
(n,γ)
(n,p)
(n,d)
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
Incident Energy (MeV)
3
77-Ir-191n

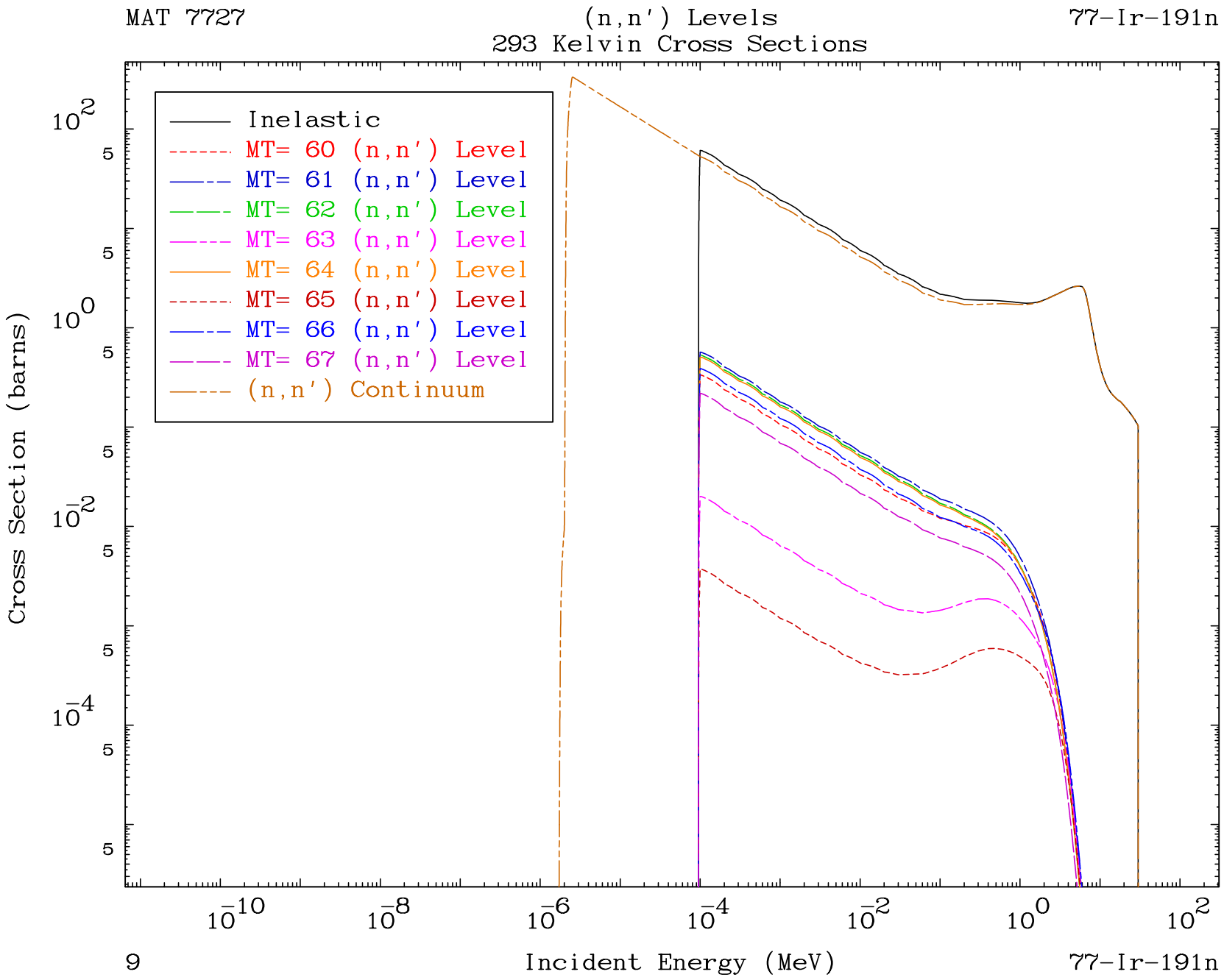

MAT 7727
Neutron Absorption
293 Kelvin Cross Sections
77-Ir-191n
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Hydrogen Production
Cross Section (barns)
Incident Energy (MeV)
77-Ir-191n
4

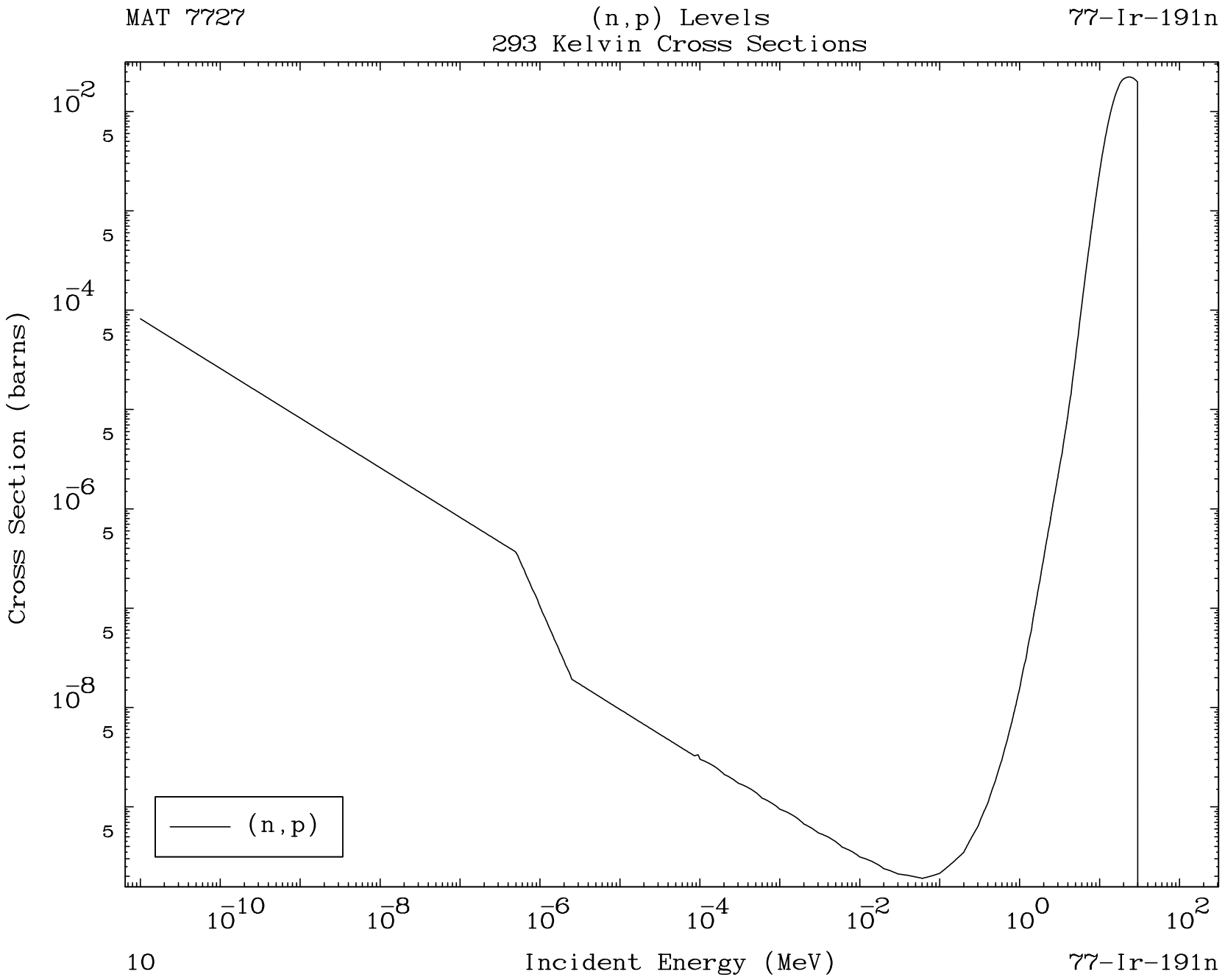

MAT 7727
Charged Particle
293 Kelvin Cross Sections
77-Ir-191n
Cross Section (barns)
Incident Energy (MeV)
77-Ir-191n
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
(n,3n) p
(n,p)

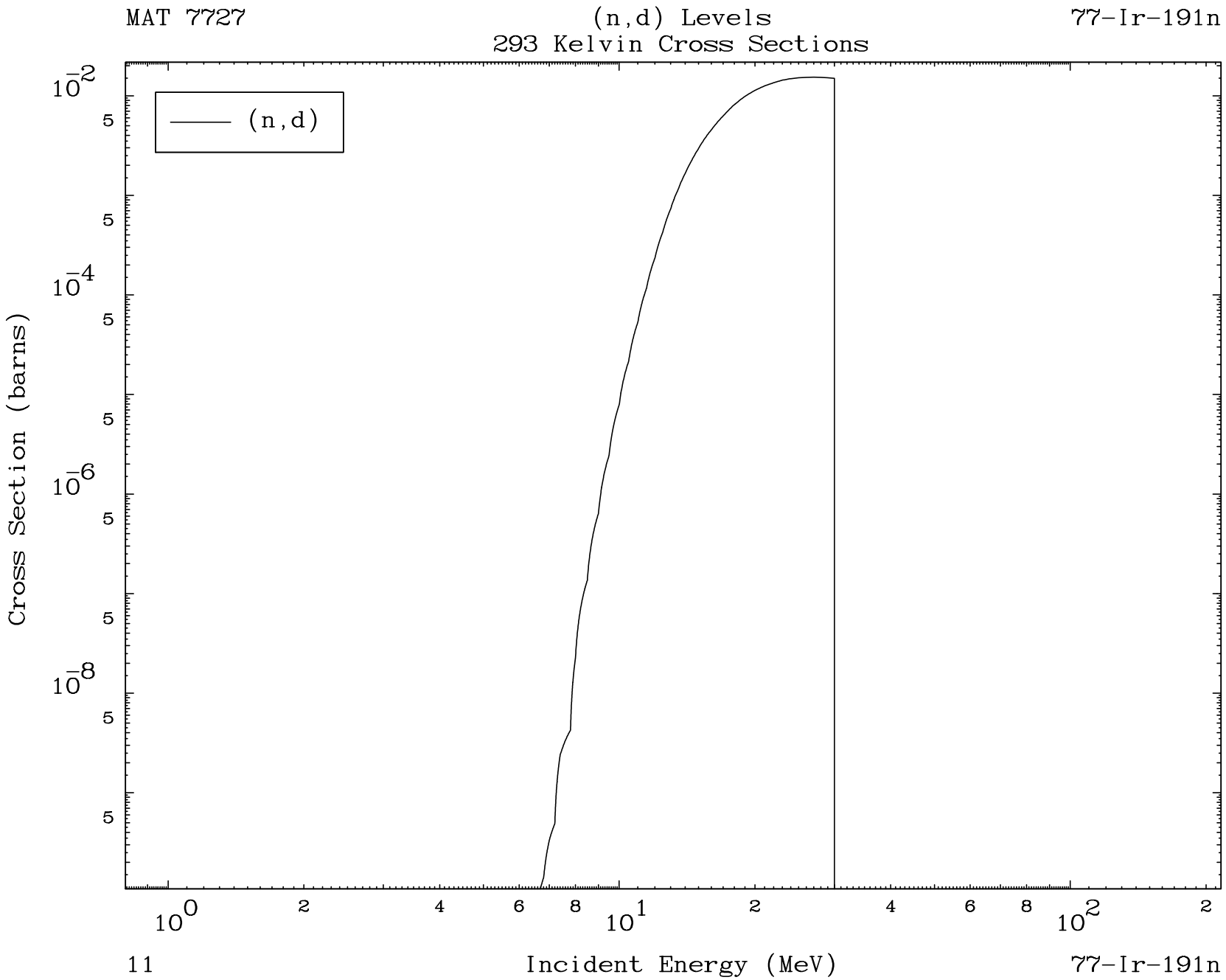

MAT 7727
Charged Particle
293 Kelvin Cross Sections
77-Ir-191n
Cross Section (barns)
Incident Energy (MeV)
(n,n') α
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
6
77-Ir-191n

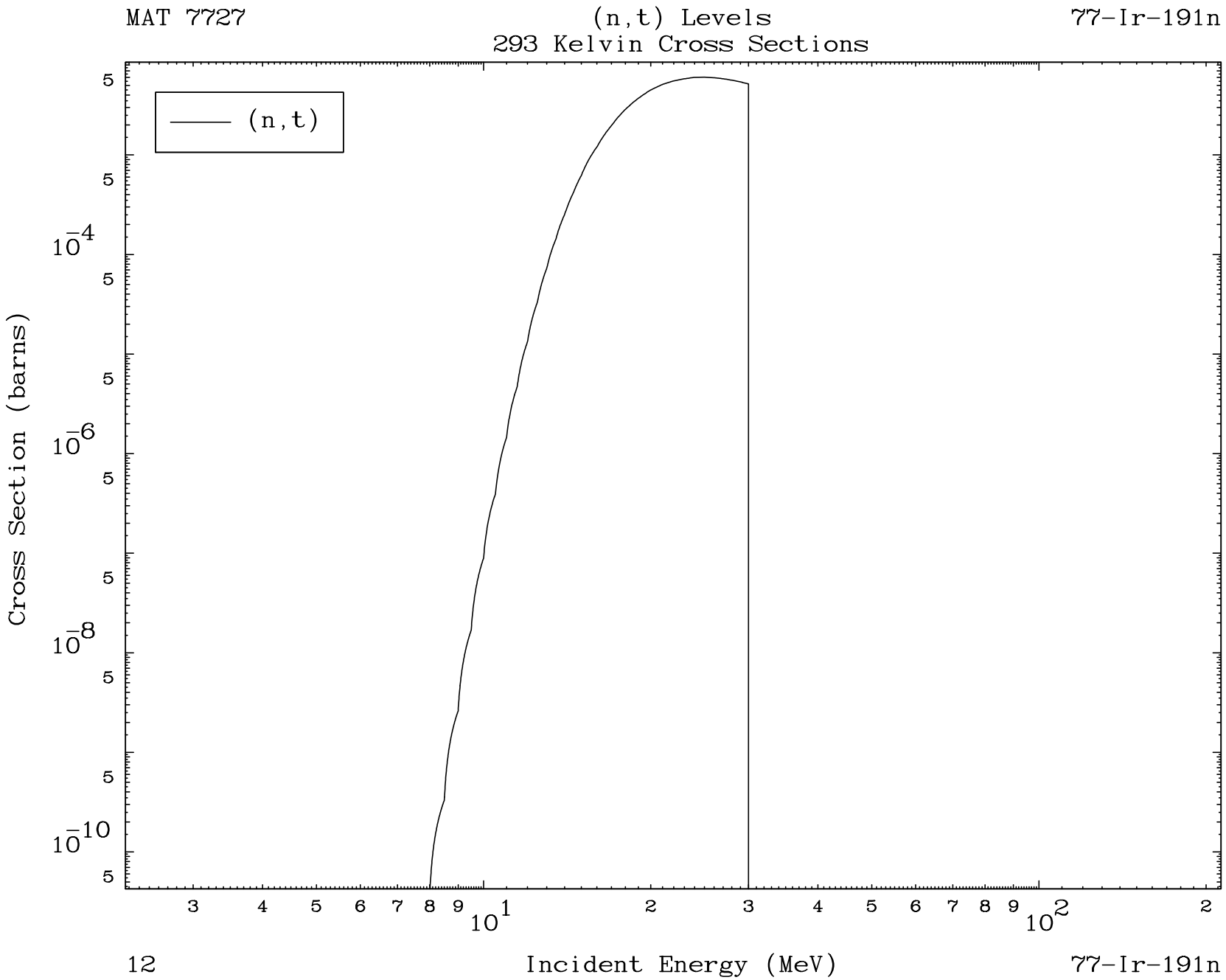

MAT 7727
Particle Production
77-Ir-191n
293 Kelvin Cross Sections
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production
Cross Section (barns)
Incident Energy (MeV)
7
77-Ir-191n

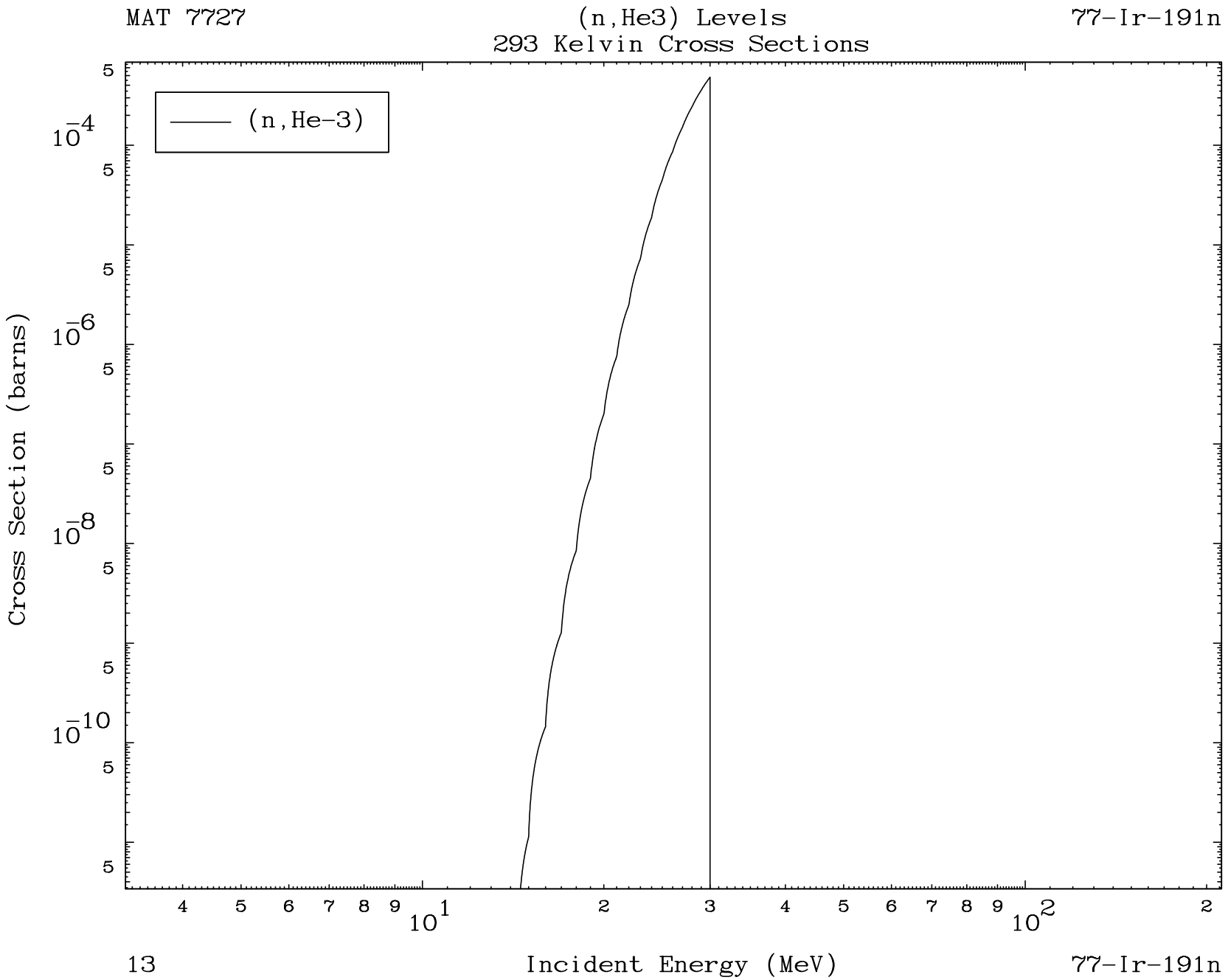

MAT 7727
(n,n') Levels
293 Kelvin Cross Sections
77-Ir-191n
Cross Section (barns)
Incident Energy (MeV)
Inelastic
MT= 51 (n,n') Level
MT= 52 (n,n') Level
MT= 53 (n,n') Level
MT= 54 (n,n') Level
MT= 55 (n,n') Level
MT= 56 (n,n') Level
MT= 57 (n,n') Level
MT= 58 (n,n') Level
MT= 59 (n,n') Level
8
77-Ir-191n

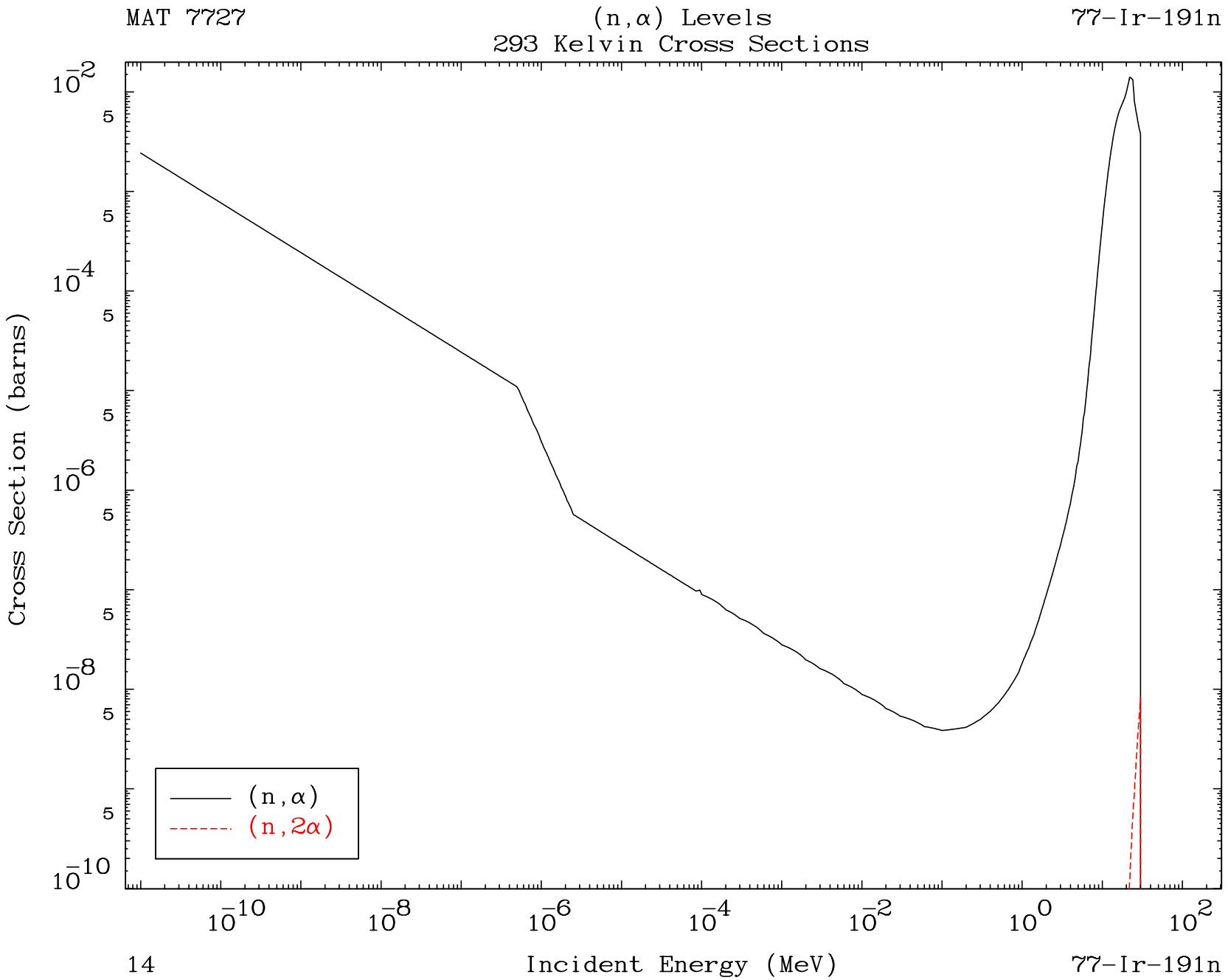

MAT 7727
(n,n') Levels
77-Ir-191n
293 Kelvin Cross Sections
Inelastic
MT= 60 (n,n') Level
MT= 61 (n,n') Level
MT= 62 (n,n') Level
MT= 63 (n,n') Level
MT= 64 (n,n') Level
MT= 65 (n,n') Level
MT= 66 (n,n') Level
MT= 67 (n,n') Level
(n,n') Continuum
Cross Section (barns)
Incident Energy (MeV)
9
77-Ir-191n

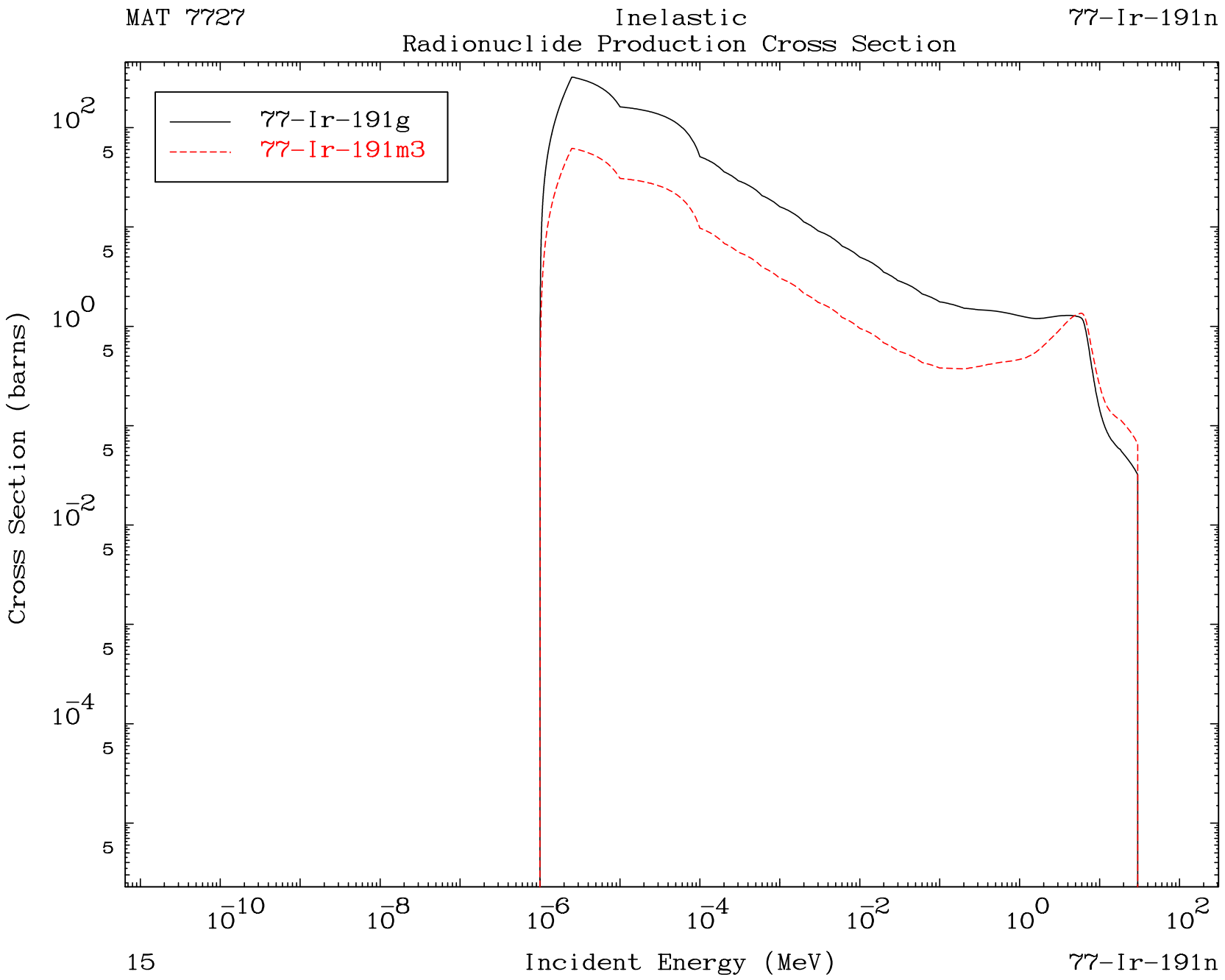

MAT 7727
(n,p) Levels
77-Ir-191n
293 Kelvin Cross Sections
Cross Section (barns)
10^-2
5
10^-4
5
10^-6
5
10^-8
5
5
(n,p)
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
10
Incident Energy (MeV)
77-Ir-191n

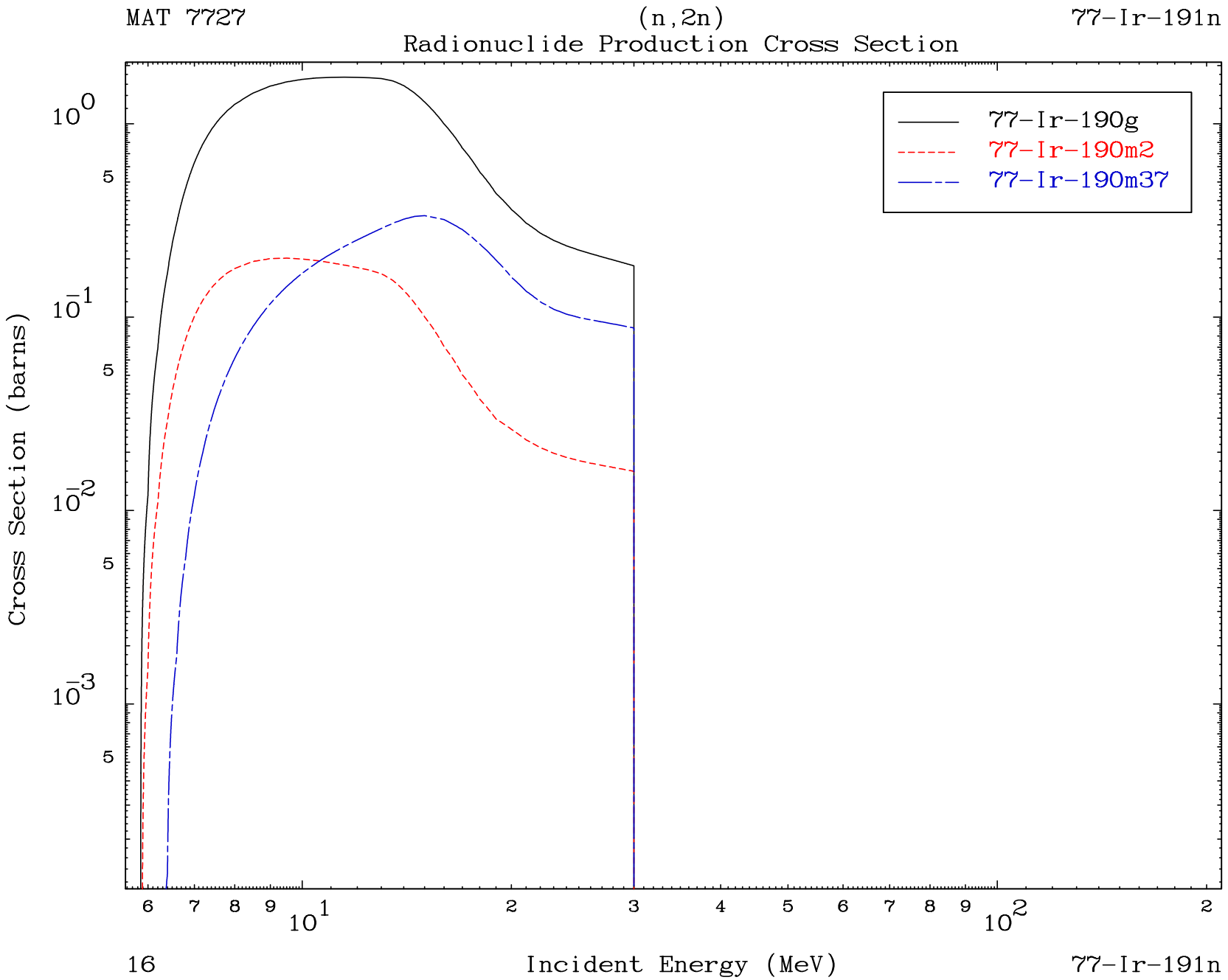

MAT 7727
(n,d) Levels
77-Ir-191n
293 Kelvin Cross Sections
(n,d)
Cross Section (barns)
Incident Energy (MeV)
11
77-Ir-191n

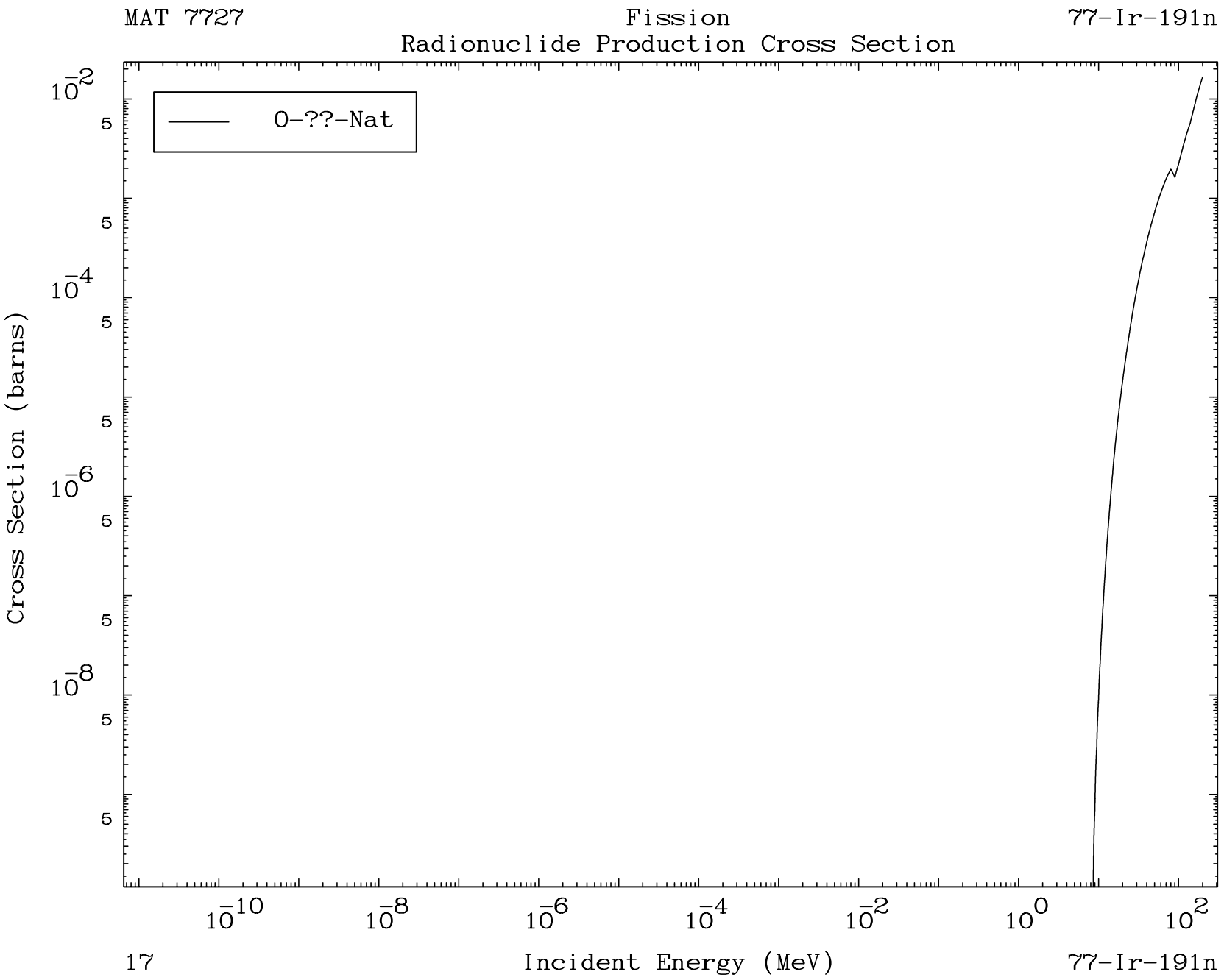

MAT 7727
(n,t) Levels
77-Ir-191n
293 Kelvin Cross Sections
(n,t)
Cross Section (barns)
Incident Energy (MeV)
12
77-Ir-191n

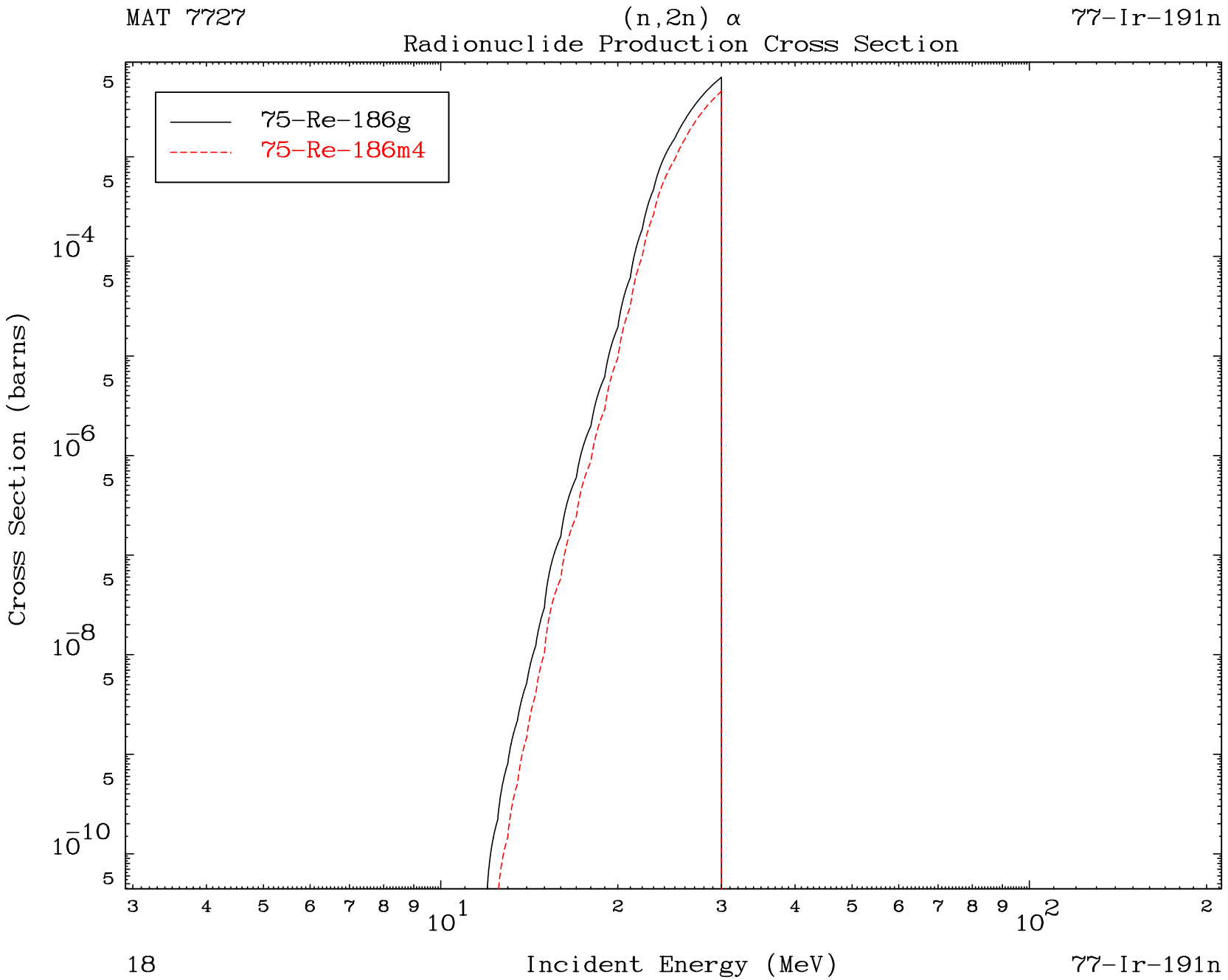

MAT 7727
(n,He3) Levels
77-Ir-191n
293 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^1
10^2
Incident Energy (MeV)
13
77-Ir-191n

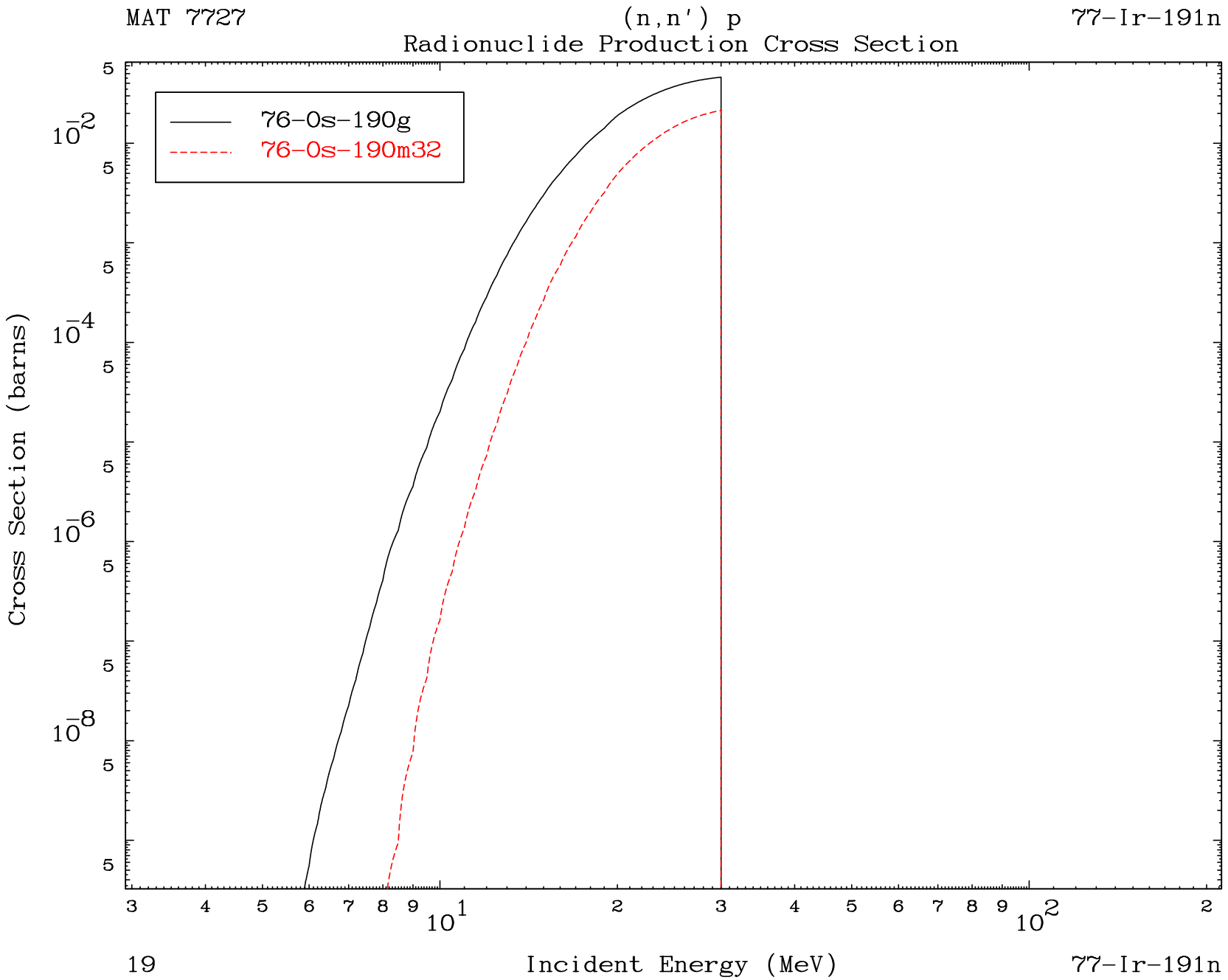

MAT 7727
(n,α) Levels
77-Ir-191n
293 Kelvin Cross Sections
Cross Section (barns)
10^-2
10^-4
10^-6
10^-8
10^-10
(n,α)
(n,2α)
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
Incident Energy (MeV)
14
77-Ir-191n

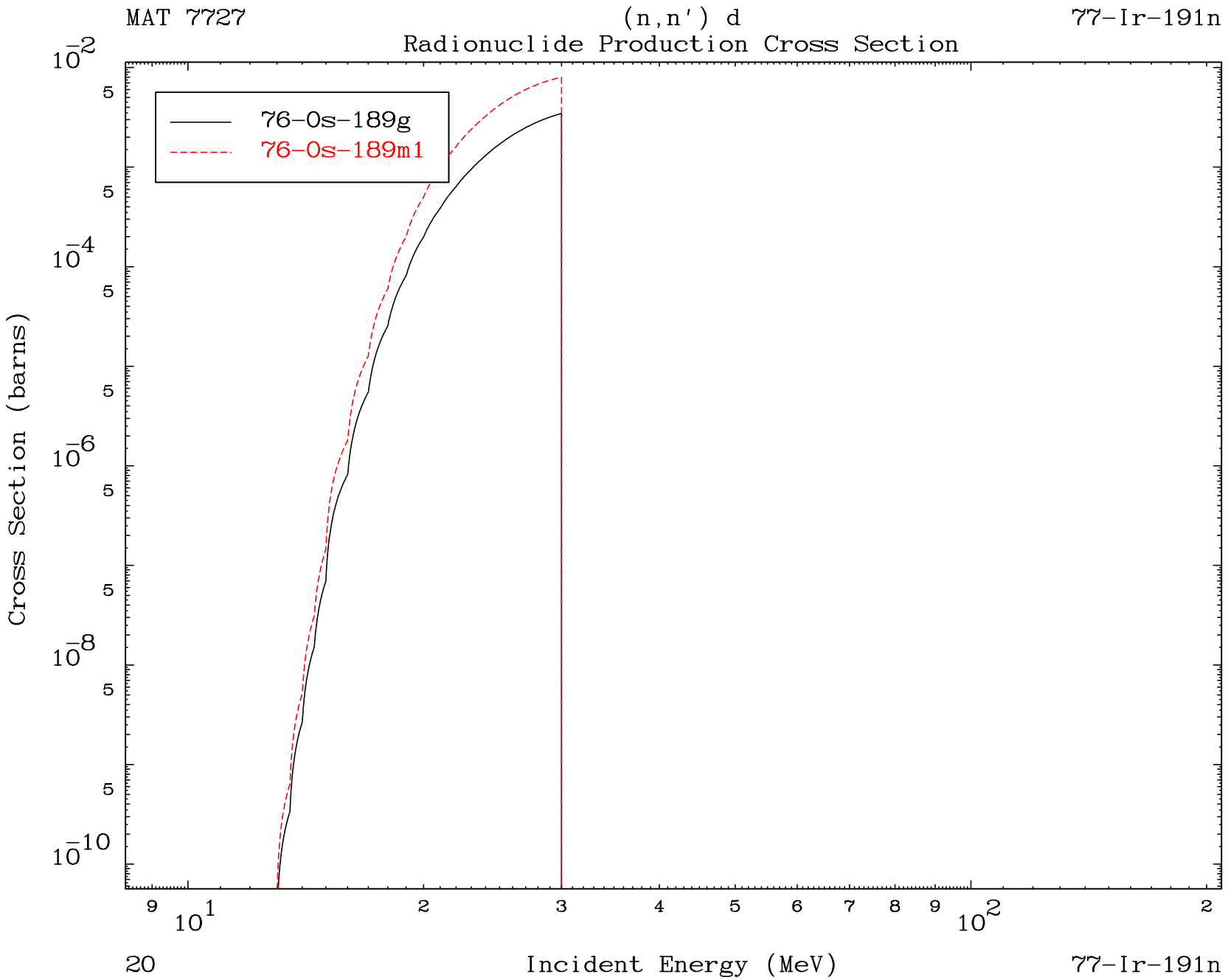

MAT 7727
Inelastic
77-Ir-191n
Radionuclide Production Cross Section
77-Ir-191g
77-Ir-191m3
Cross Section (barns)
Incident Energy (MeV)
15
77-Ir-191n

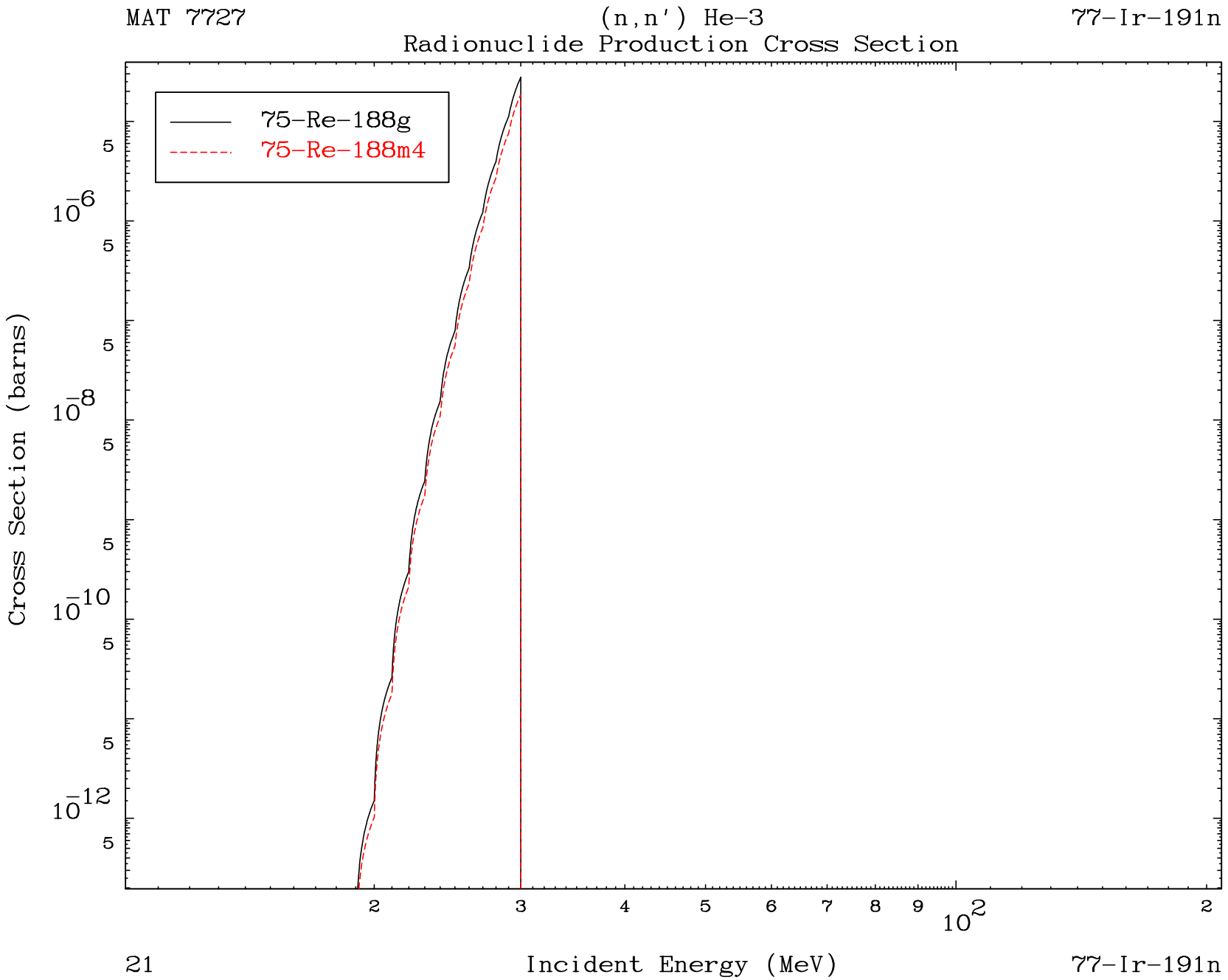

MAT 7727
(n,2n)
77-Ir-191n
Radionuclide Production Cross Section
77-Ir-190g
77-Ir-190m2
77-Ir-190m37
Cross Section (barns)
Incident Energy (MeV)
16
77-Ir-191n

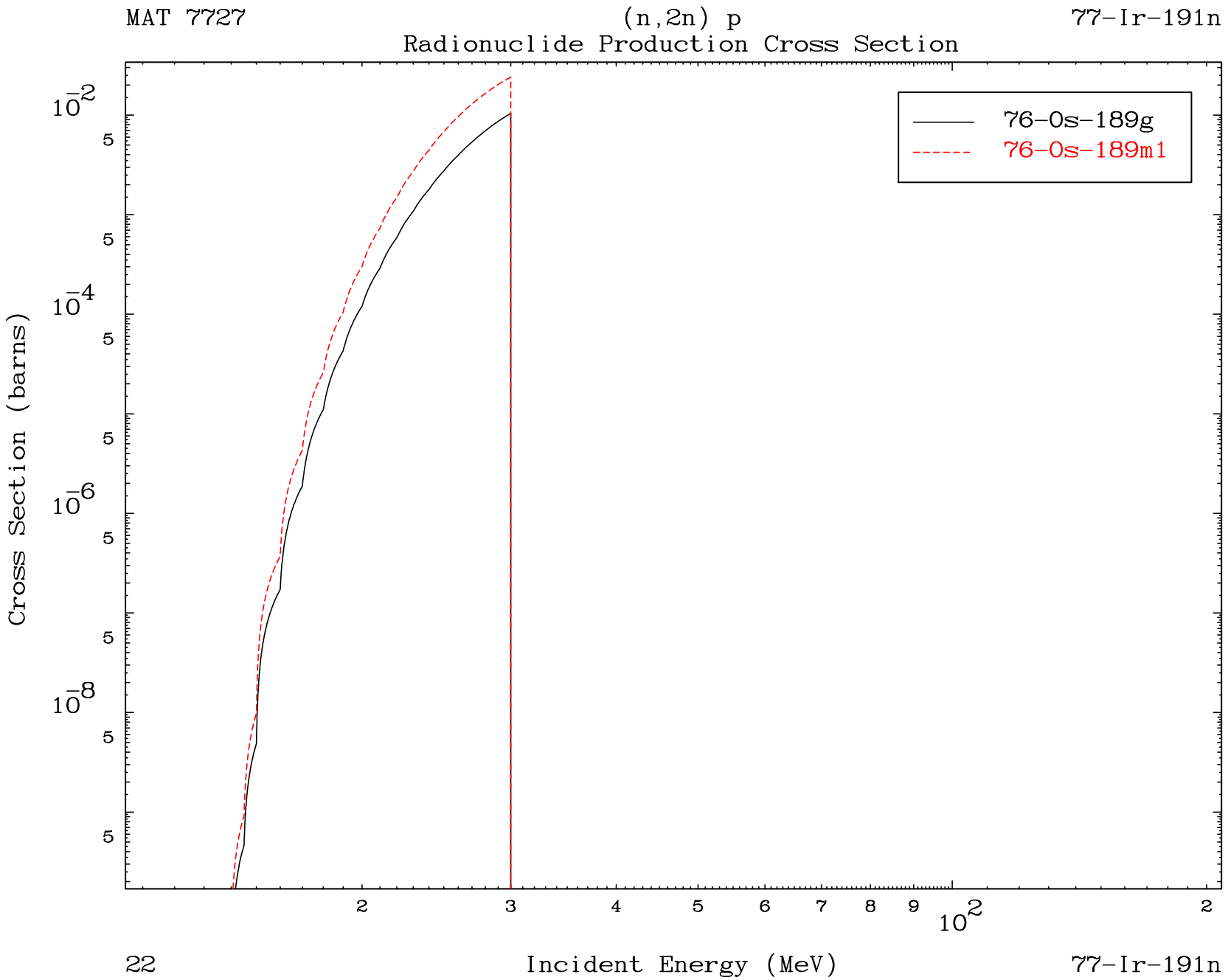

MAT 7727
Fission
77-Ir-191n
Radionuclide Production Cross Section
0-??-Nat
Cross Section (barns)
Incident Energy (MeV)
17
77-Ir-191n

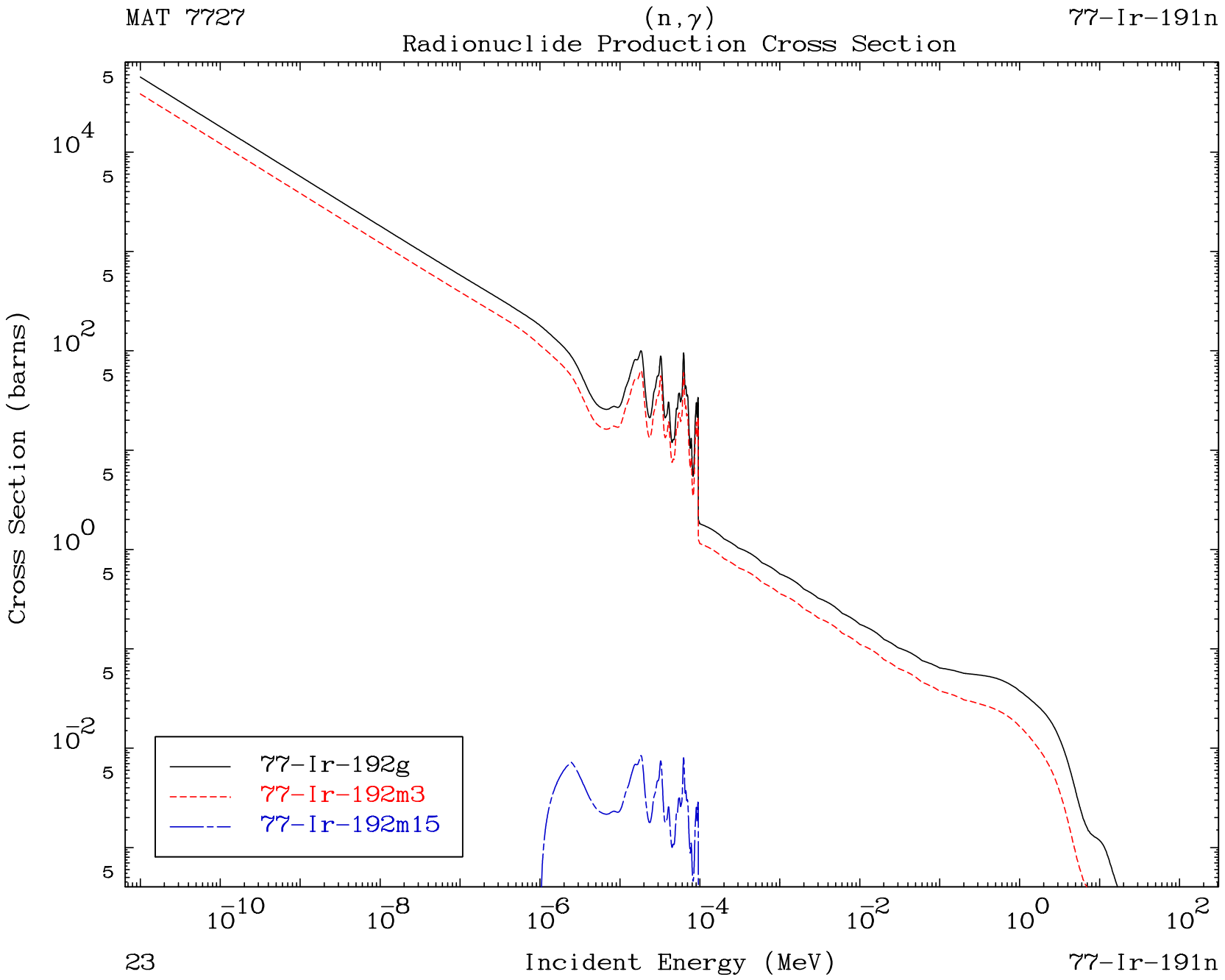

MAT 7727
(n,2n) α
77-Ir-191n
Radionuclide Production Cross Section
75-Re-186g
75-Re-186m4
Cross Section (barns)
Incident Energy (MeV)
18
77-Ir-191n

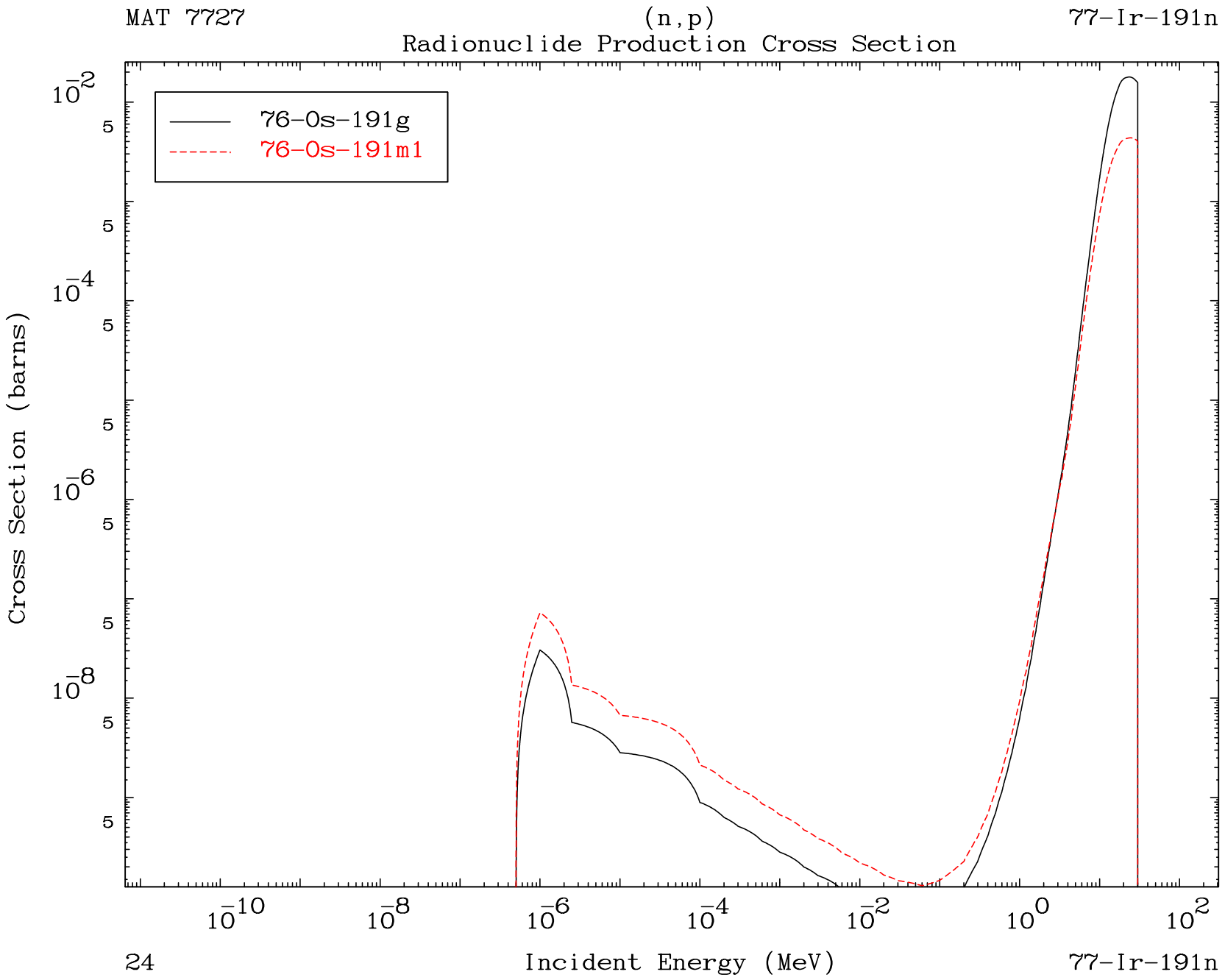

MAT 7727
(n,n') p
77-Ir-191n
Radionuclide Production Cross Section
76-Os-190g
76-Os-190m32
Cross Section (barns)
Incident Energy (MeV)
19
77-Ir-191n

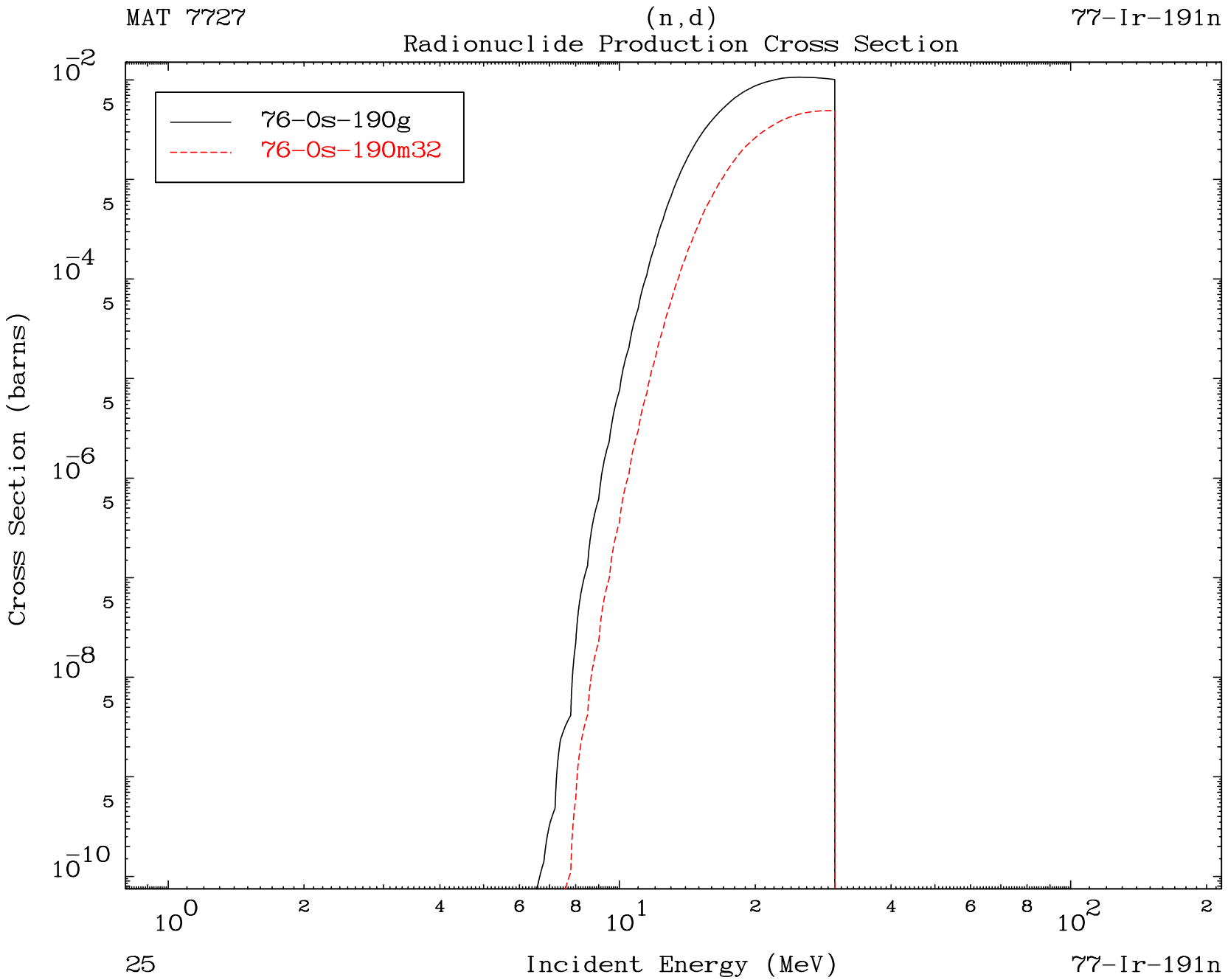

MAT 7727
(n,n') d
77-Ir-191n
Radionuclide Production Cross Section
76-Os-189g
76-Os-189m1
Cross Section (barns)
Incident Energy (MeV)
77-Ir-191n
20

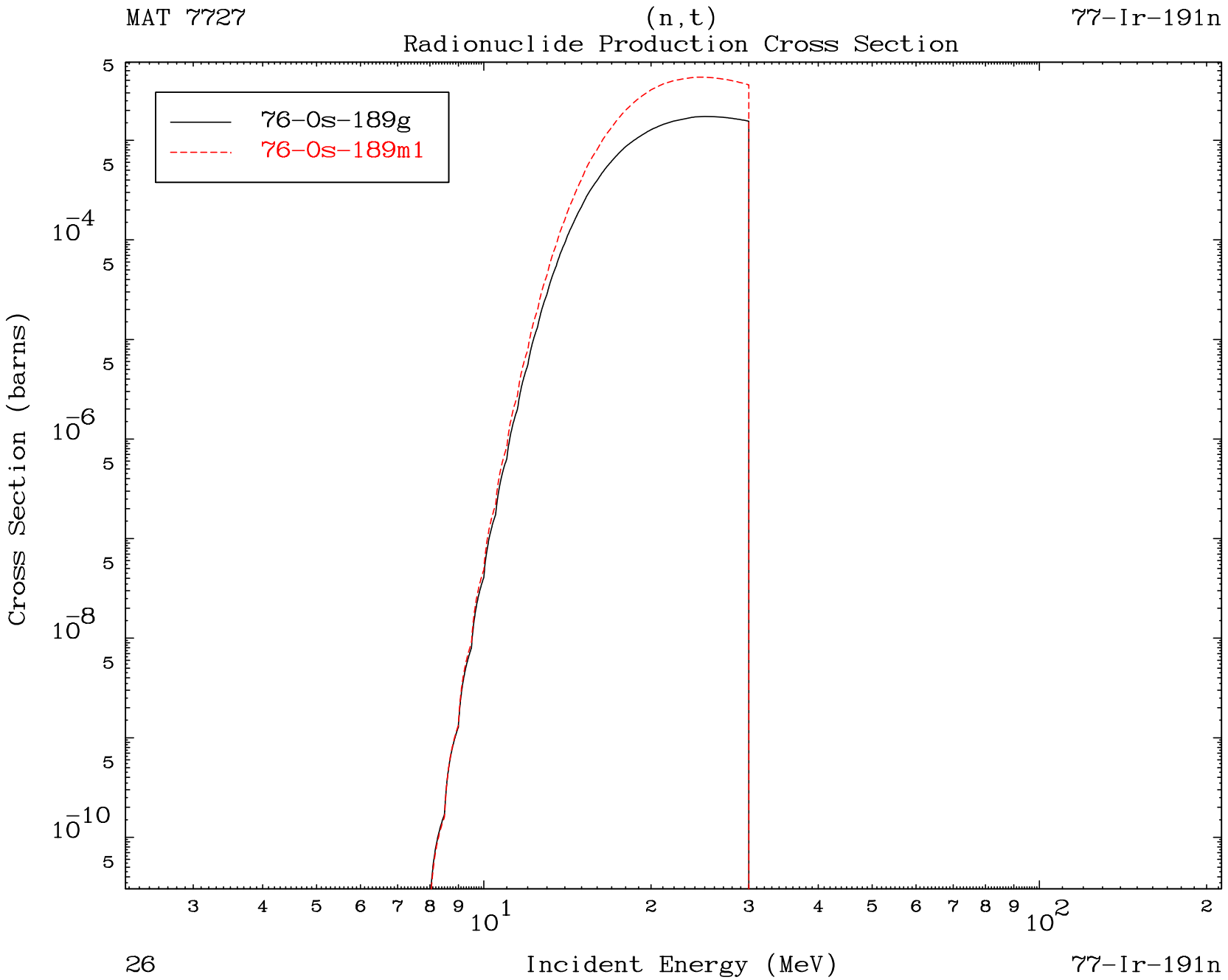

MAT 7727
(n,n') He-3
77-Ir-191n
Radionuclide Production Cross Section
75-Re-188g
75-Re-188m4
Cross Section (barns)
10-6
10-8
10-10
10-12
5
2
3
4
5
6
7
8
9
10 2
2
21
Incident Energy (MeV)
77-Ir-191n

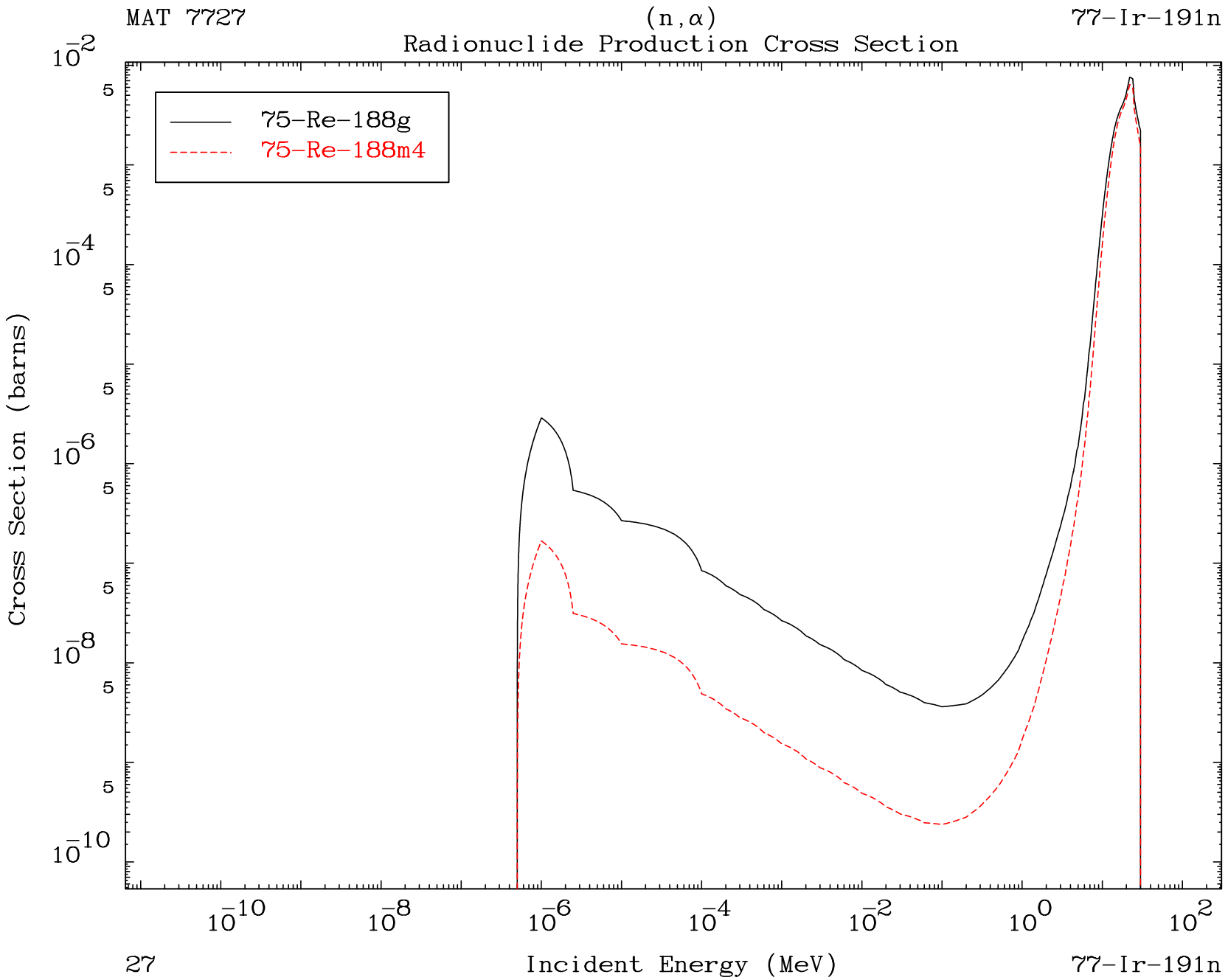

MAT 7727
(n,2n) p
77-Ir-191n
Radionuclide Production Cross Section
76-Os-189g
76-Os-189m1
Cross Section (barns)
Incident Energy (MeV)
22
77-Ir-191n

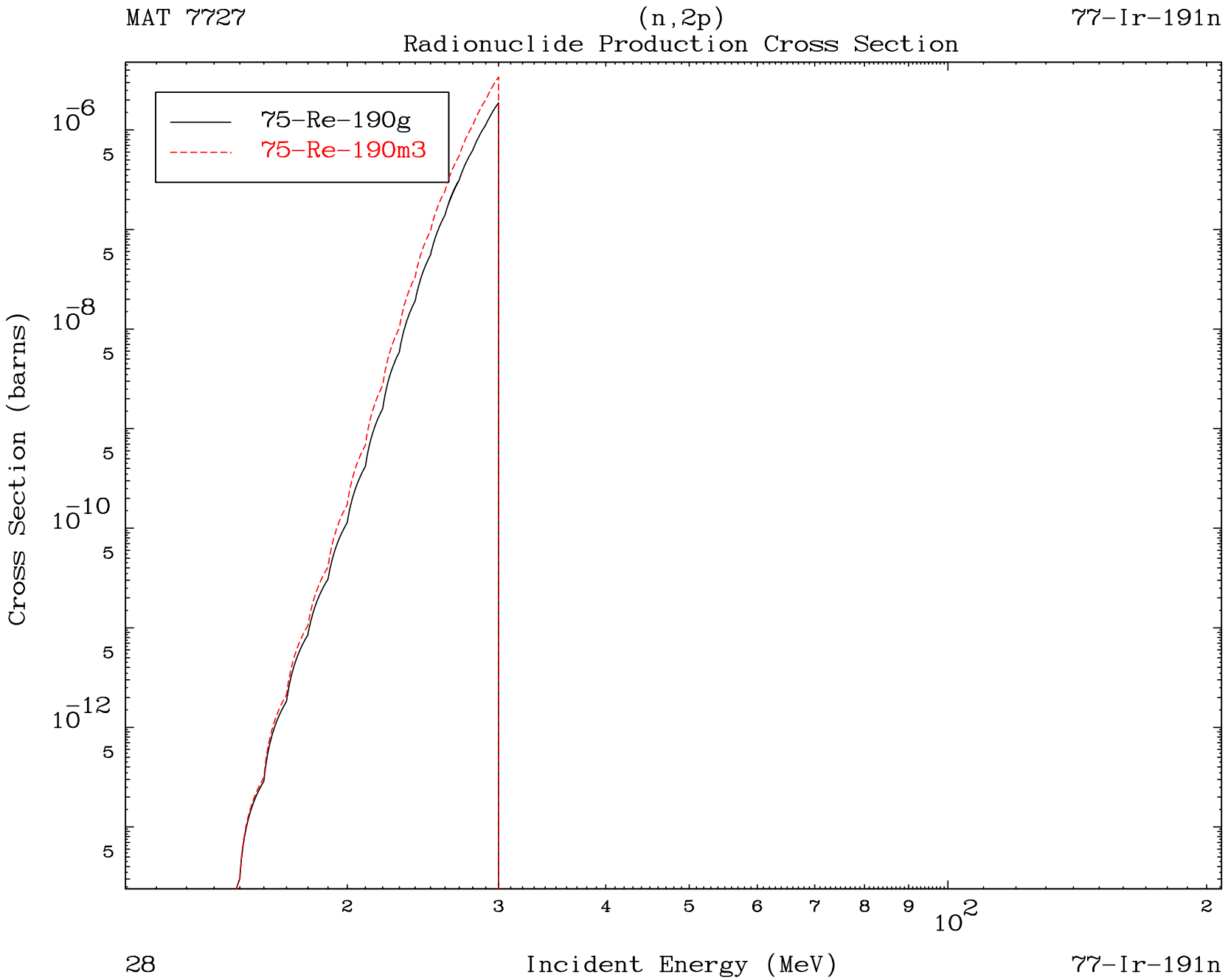

MAT 7727
(n,γ)
77-Ir-191n
Radionuclide Production Cross Section
Cross Section (barns)
10^4
10^2
10^0
10^-2
77-Ir-192g
77-Ir-192m3
77-Ir-192m15
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
23
Incident Energy (MeV)
77-Ir-191n

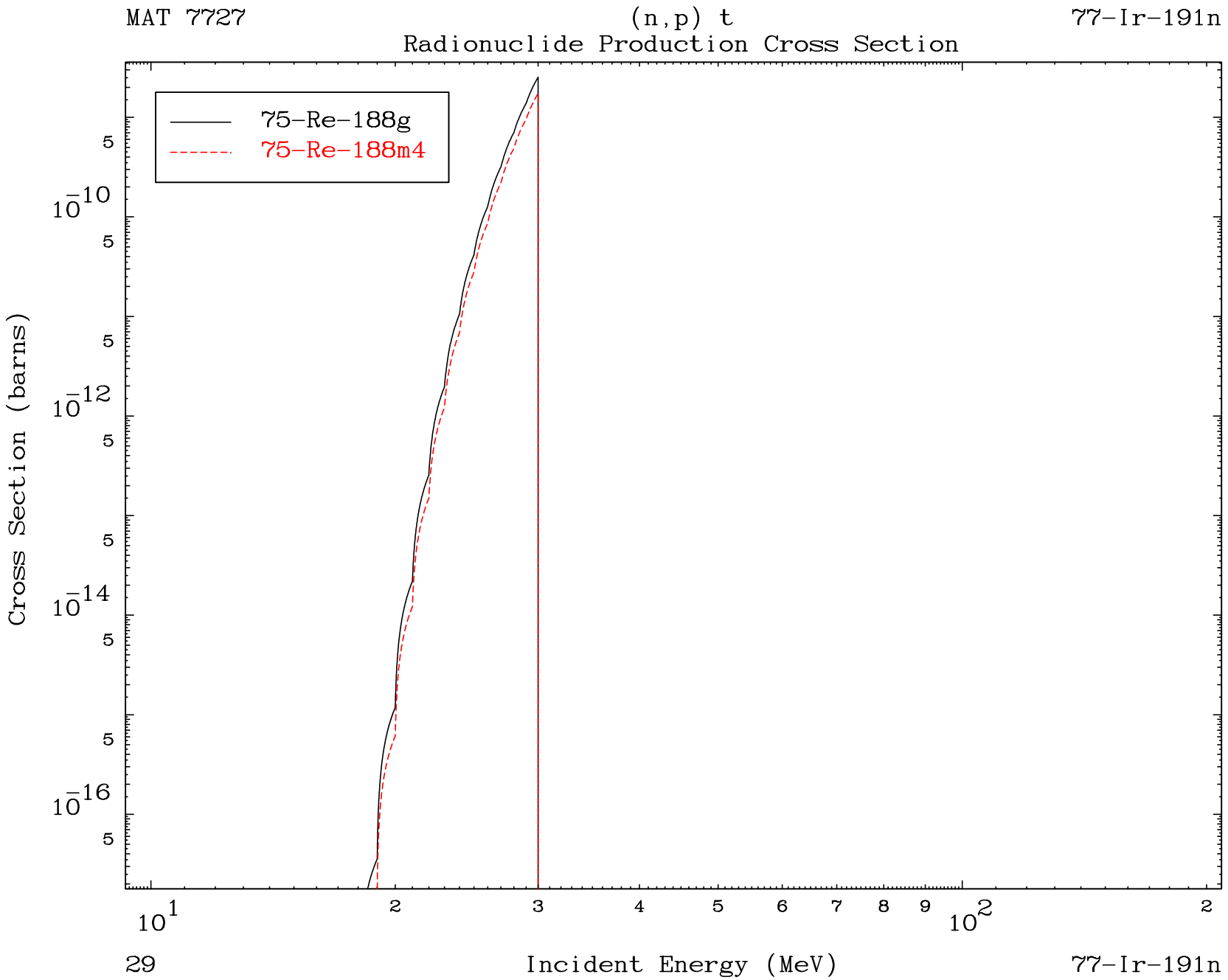

MAT 7727
(n,p)
77-Ir-191n
Radionuclide Production Cross Section
76-Os-191g
76-Os-191m1
Cross Section (barns)
Incident Energy (MeV)
24
77-Ir-191n


MAT 7727
(n,d)
77-Ir-191n
Radionuclide Production Cross Section
76-0s-190g
76-0s-190m32
Cross Section (barns)
Incident Energy (MeV)
25
77-Ir-191n


MAT 7727
(n,t)
77-Ir-191n
Radionuclide Production Cross Section
76-Os-189g
76-Os-189m1
Cross Section (barns)
Incident Energy (MeV)
26
77-Ir-191n


MAT 7727
(n,α)
77-Ir-191n
Radionuclide Production Cross Section
75-Re-188g
75-Re-188m4
Cross Section (barns)
Incident Energy (MeV)
27
77-Ir-191n


MAT 7727
(n,2p)
77-Ir-191n
Radionuclide Production Cross Section
75-Re-190g
75-Re-190m3
Cross Section (barns)
10-6
10-8
10-10
10-12
5
2
3
4
5
6
7
8
9
10 2
2
28
Incident Energy (MeV)
77-Ir-191n


MAT 7727
(n,p) t
77-Ir-191n
Radionuclide Production Cross Section
75-Re-188g
75-Re-188m4
Cross Section (barns)
10^-10
10^-12
10^-14
10^-16
5
10^1
2
3
4
5
6
7
8
9
10^2
2
29
Incident Energy (MeV)
77-Ir-191n