Program EVALPLOT
(Version 2021-1)
by
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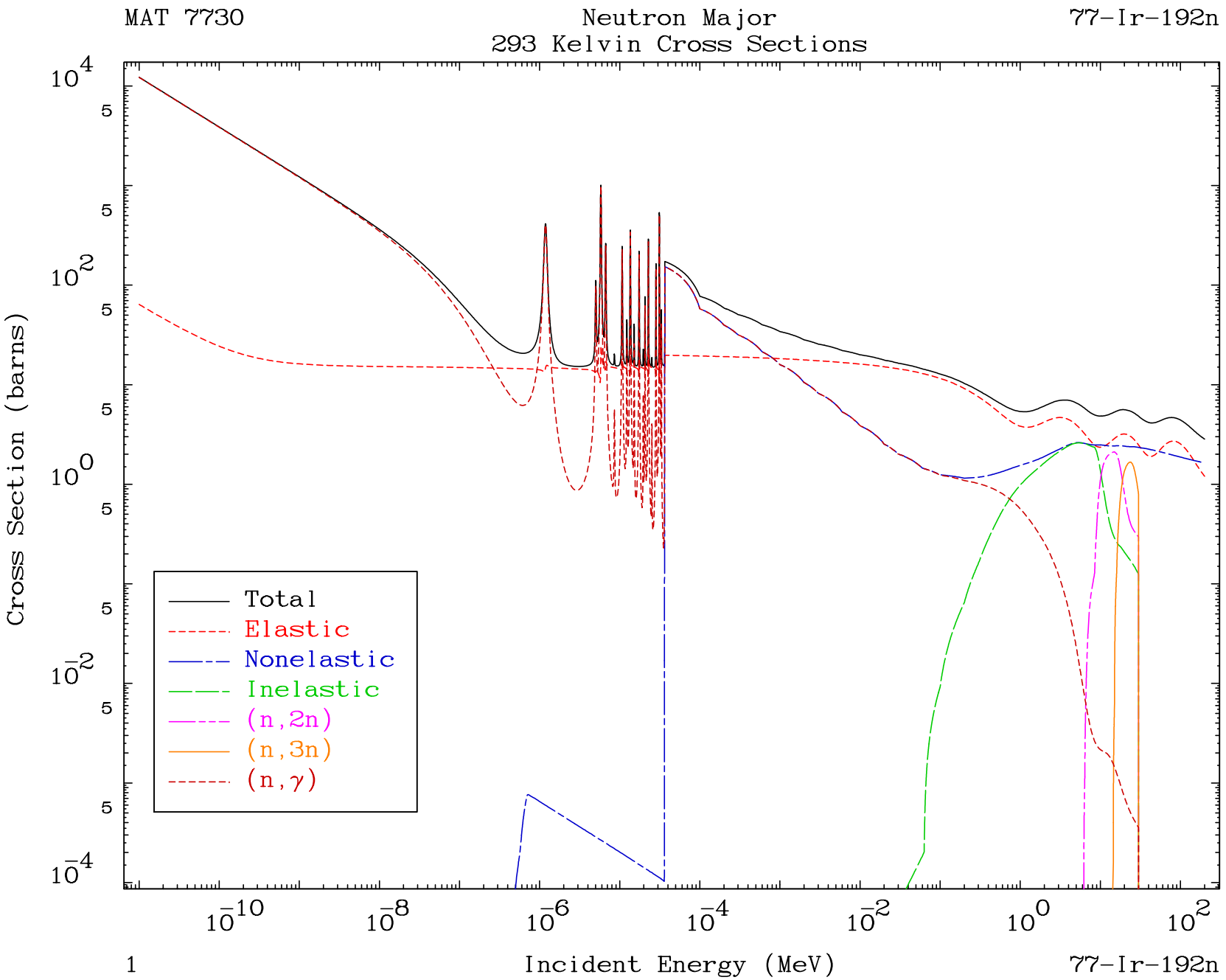
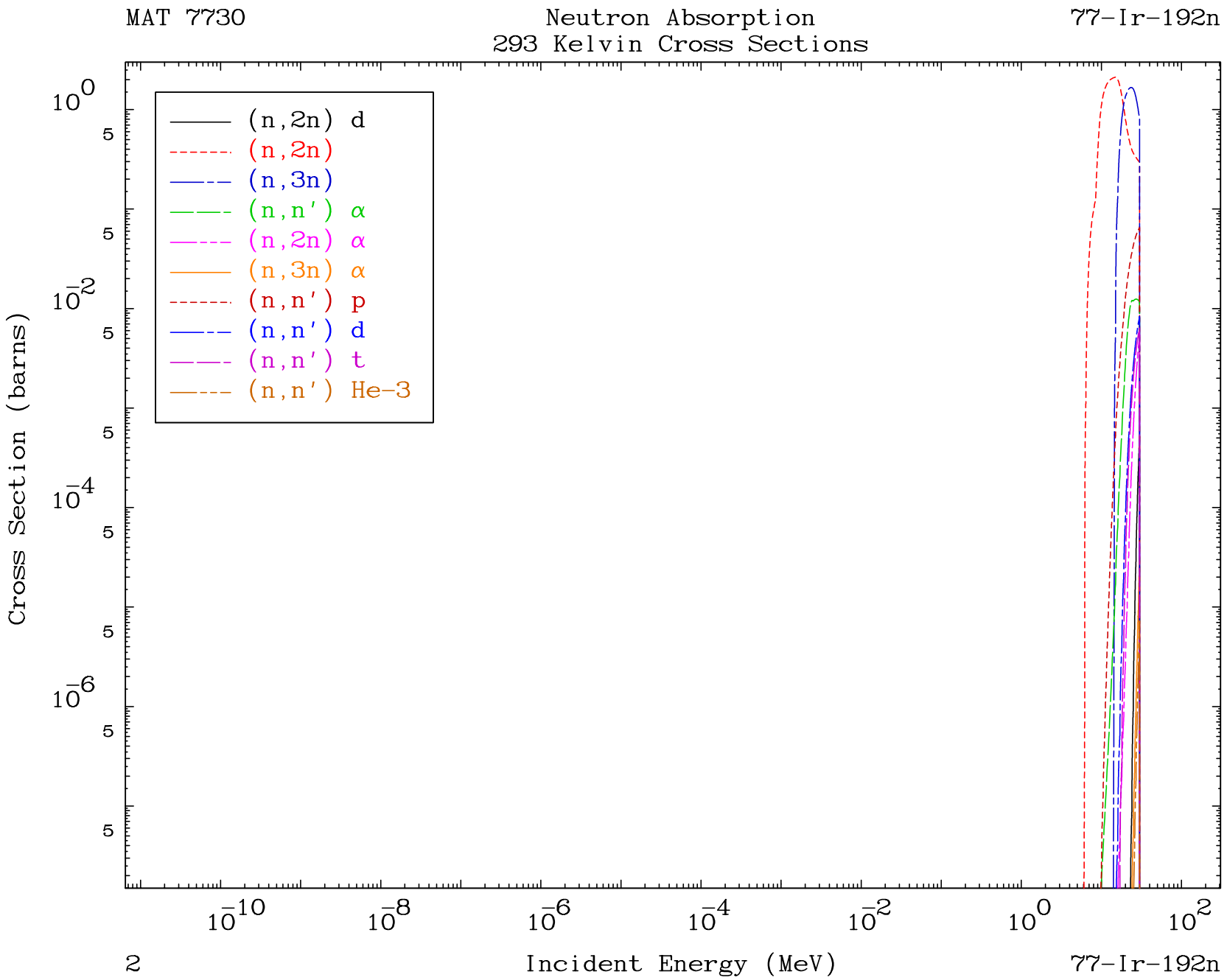
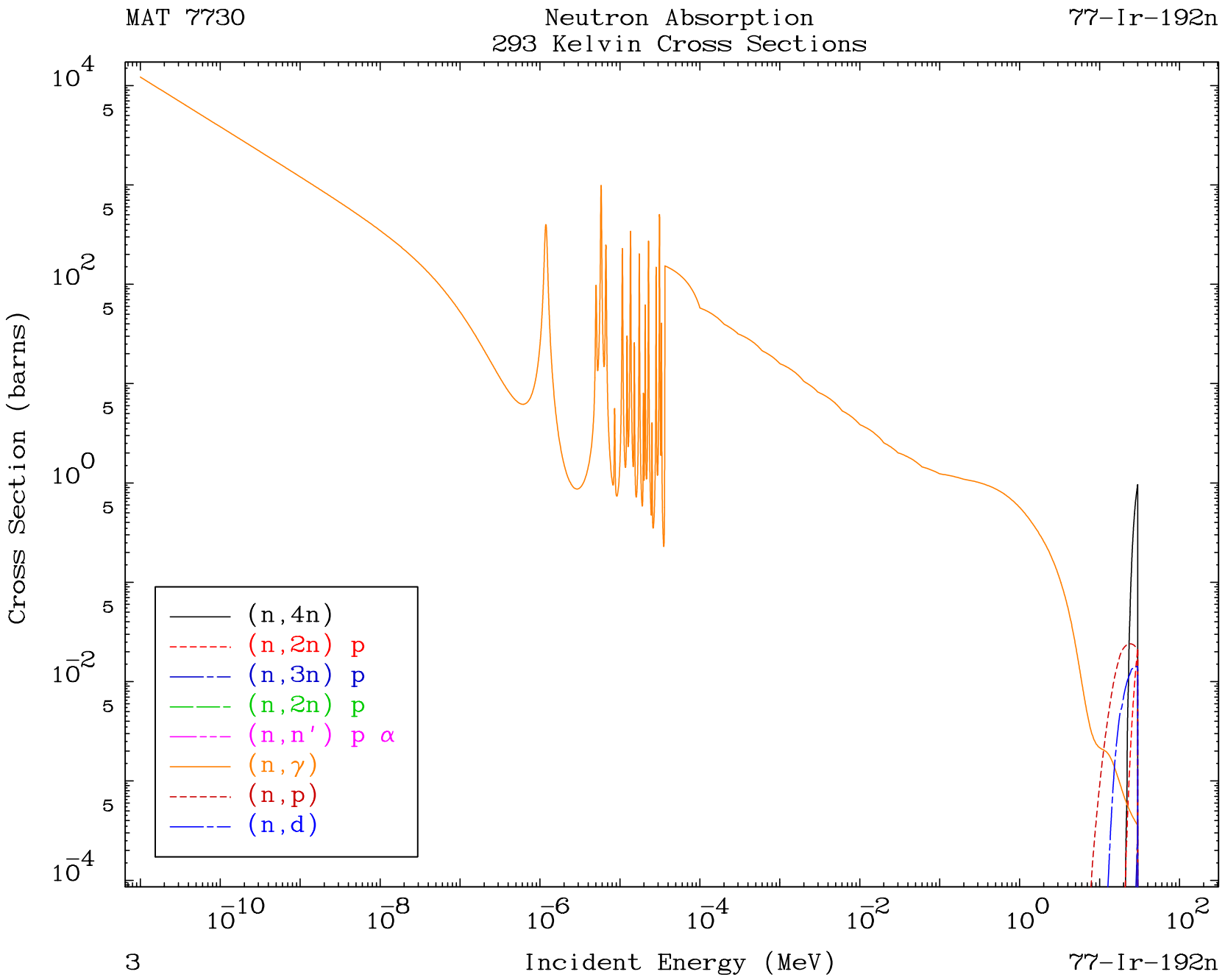
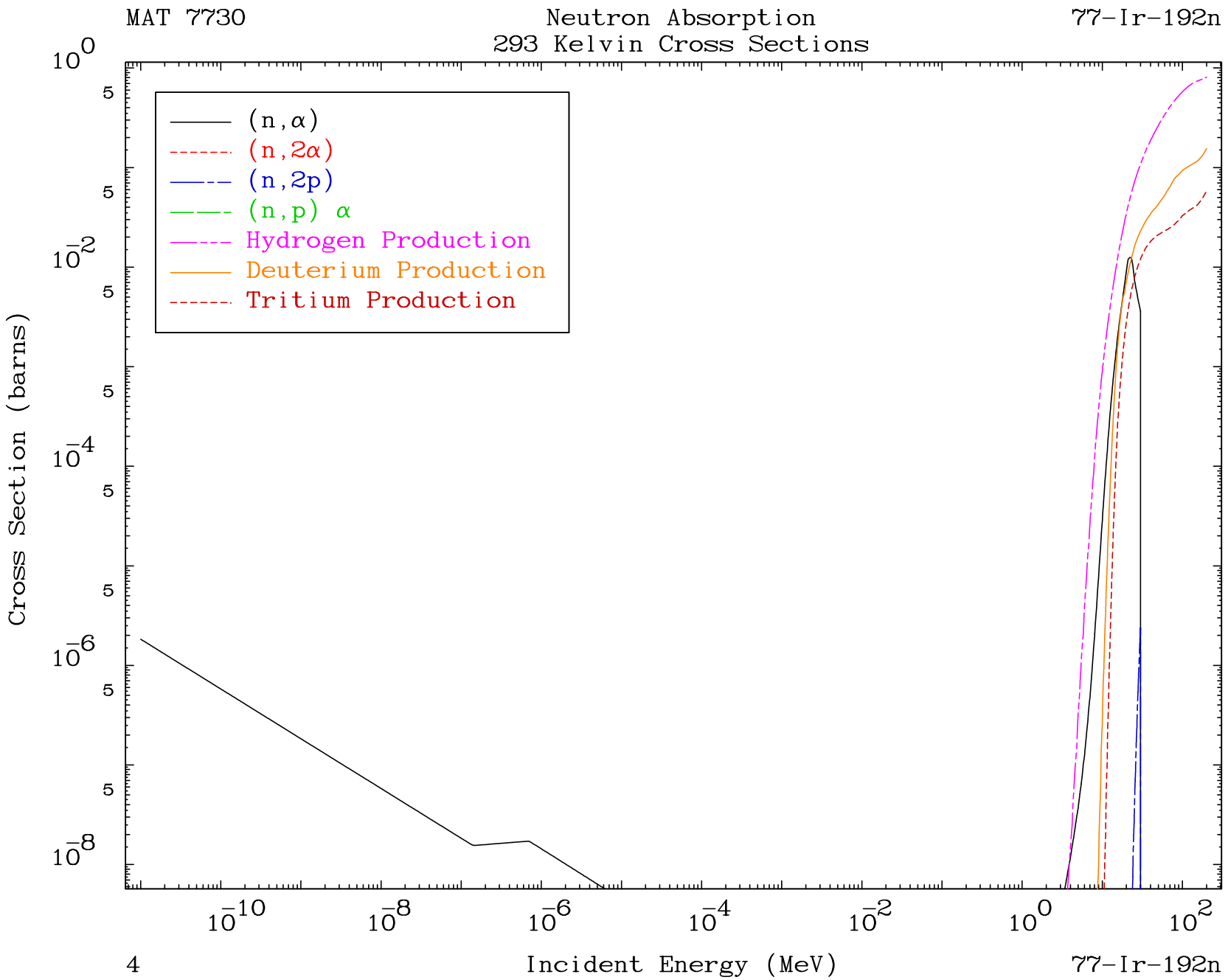
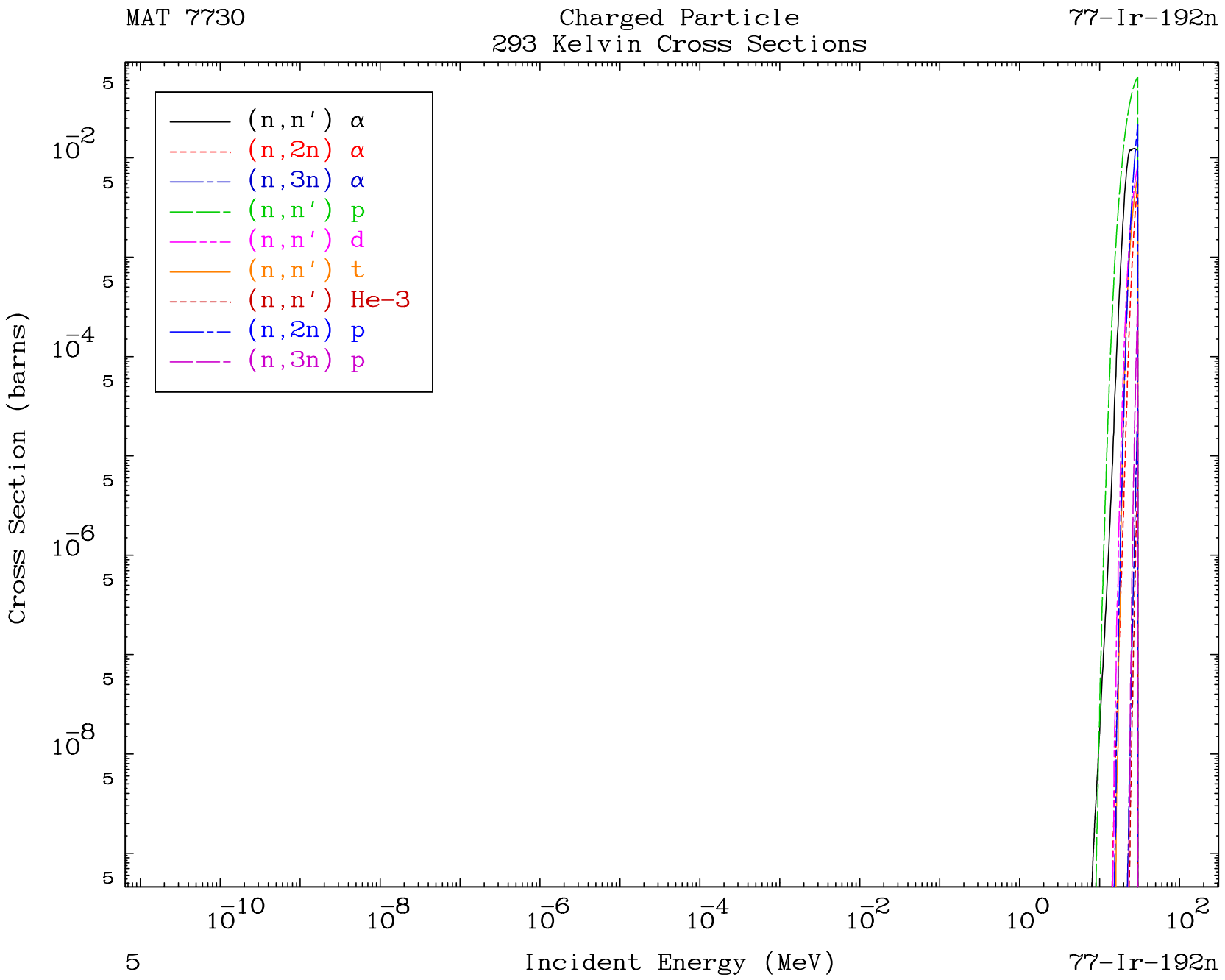
Press Mouse Button to Start

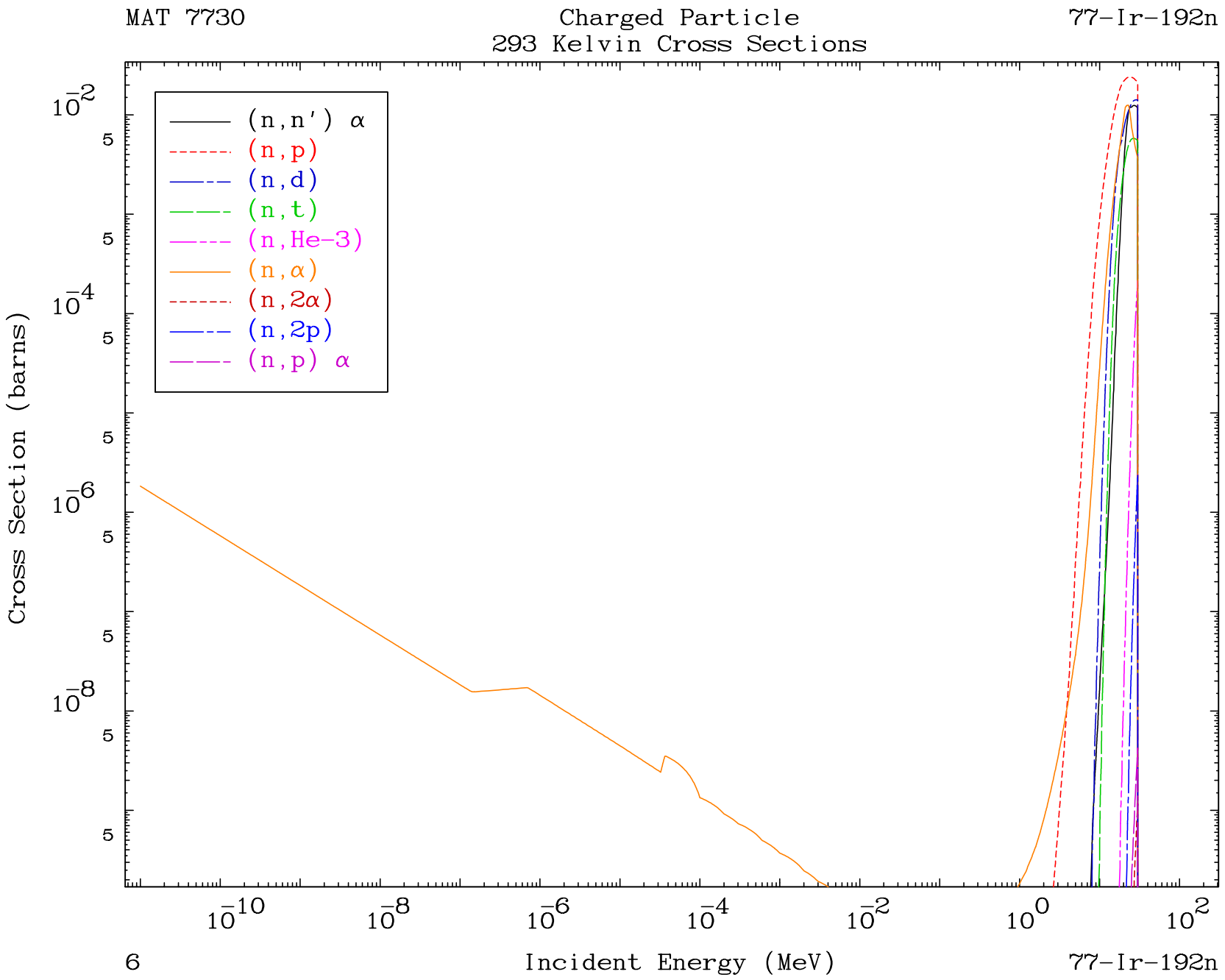

MAT 7730
Neutron Major
293 Kelvin Cross Sections
77-Ir-192n
Cross Section (barns)
Incident Energy (MeV)
Total
Elastic
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)
1
77-Ir-192n

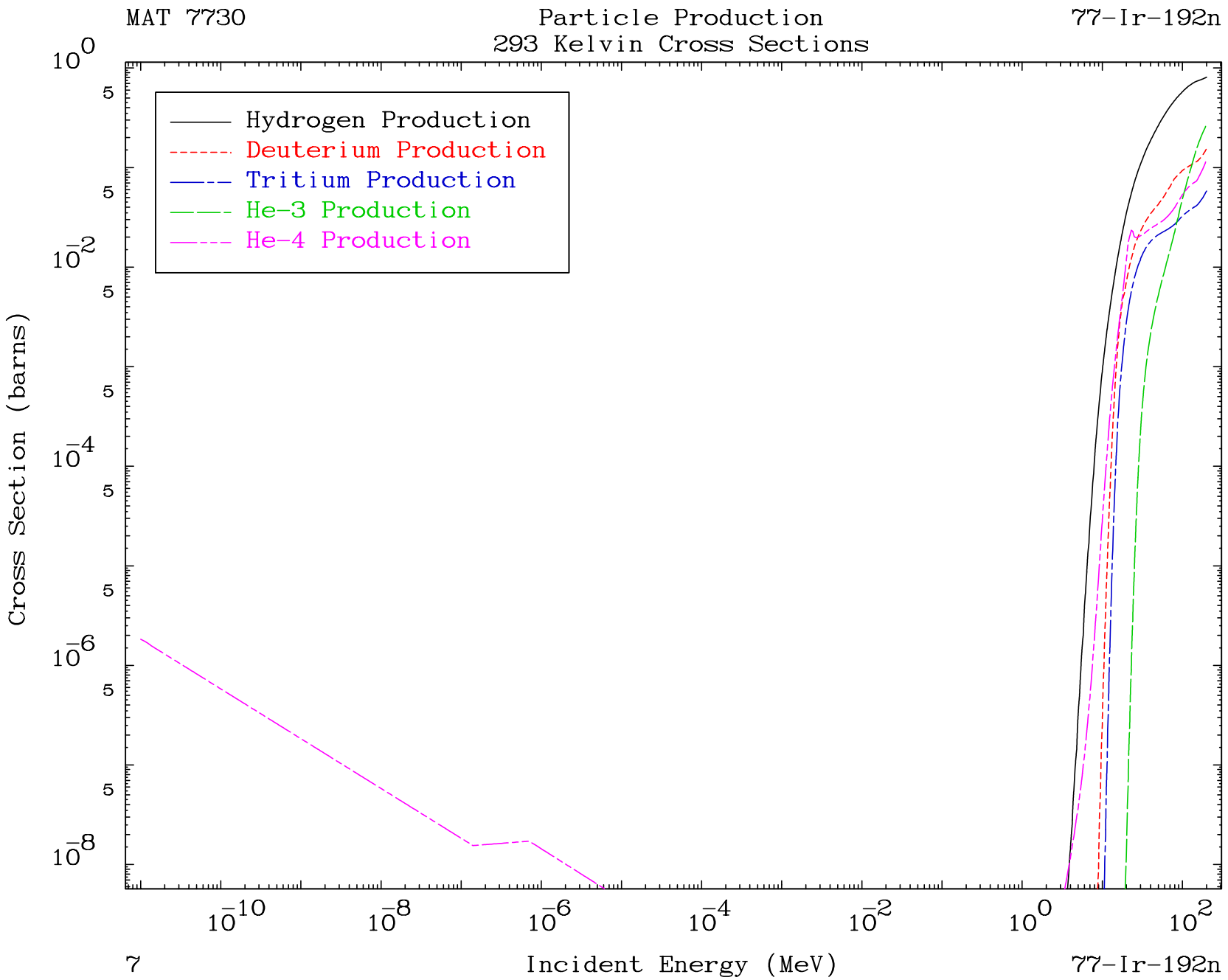

MAT 7730
Neutron Absorption
293 Kelvin Cross Sections
77-Ir-192n
(n,2n) d
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') d
(n,n') t
(n,n') He-3
Cross Section (barns)
Incident Energy (MeV)
77-Ir-192n
2

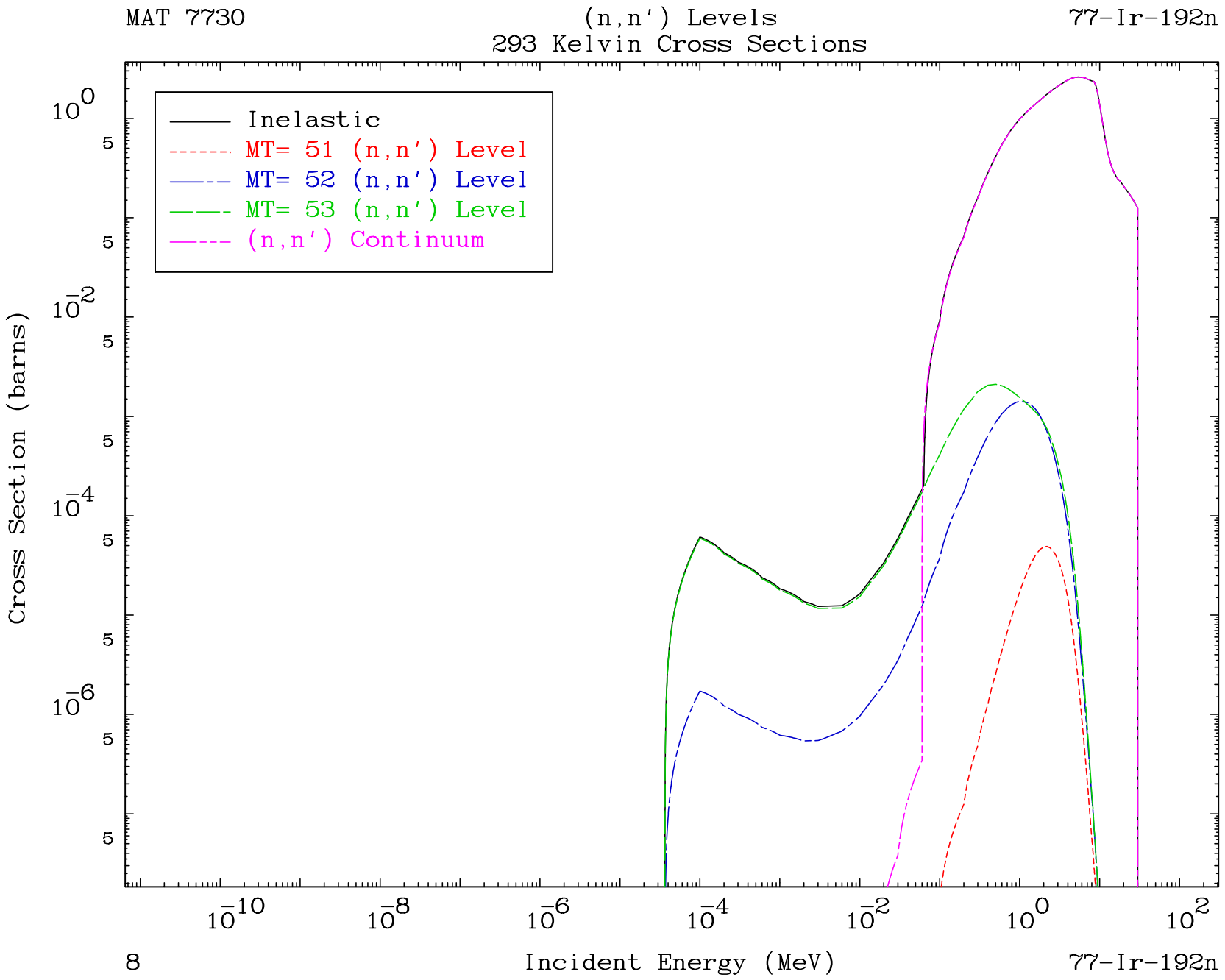

MAT 7730
Neutron Absorption
293 Kelvin Cross Sections
77-Ir-192n
Cross Section (barns)
Incident Energy (MeV)
(n,4n)
(n,2n) p
(n,3n) p
(n,2n) p
(n,n') p α
(n,γ)
(n,p)
(n,d)
3
77-Ir-192n

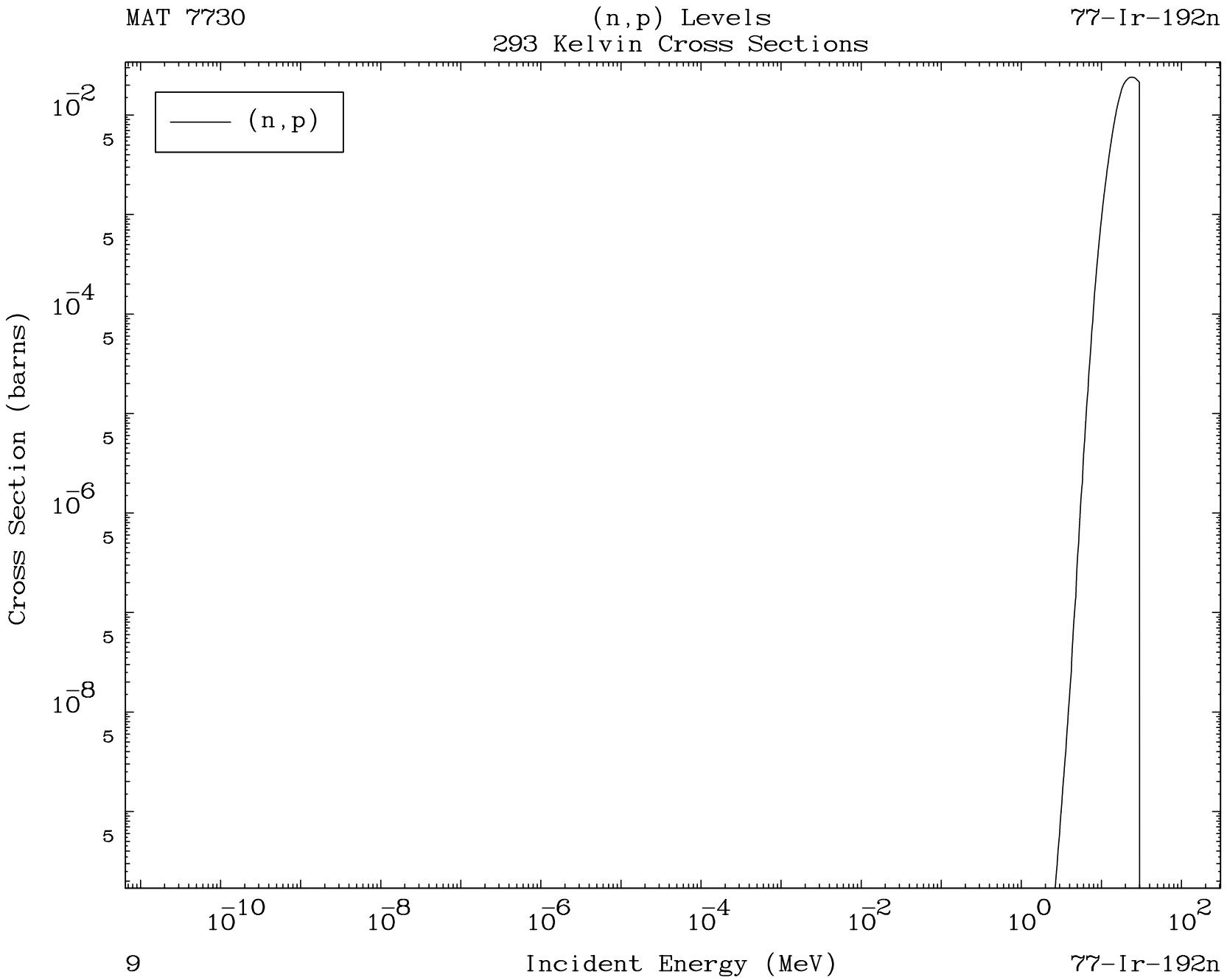

MAT 7730
Neutron Absorption
293 Kelvin Cross Sections
77-Ir-192n
(n,α)
(n,2α)
(n,2p)
(n,p) α
Hydrogen Production
Deuterium Production
Tritium Production
Cross Section (barns)
Incident Energy (MeV)
77-Ir-192n
4

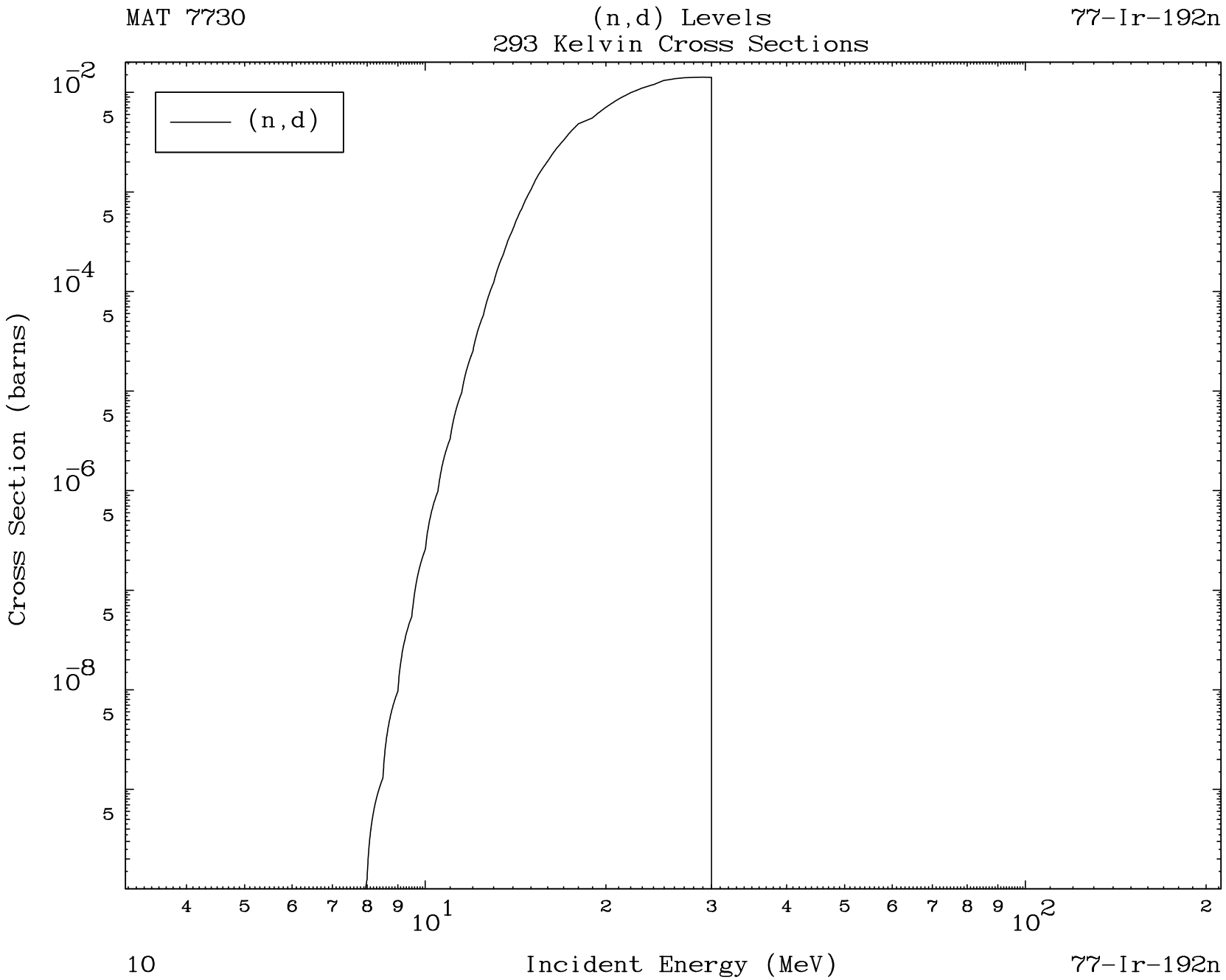

MAT 7730
Charged Particle
77-Ir-192n
293 Kelvin Cross Sections
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
(n,3n) p
Cross Section (barns)
Incident Energy (MeV)
77-Ir-192n

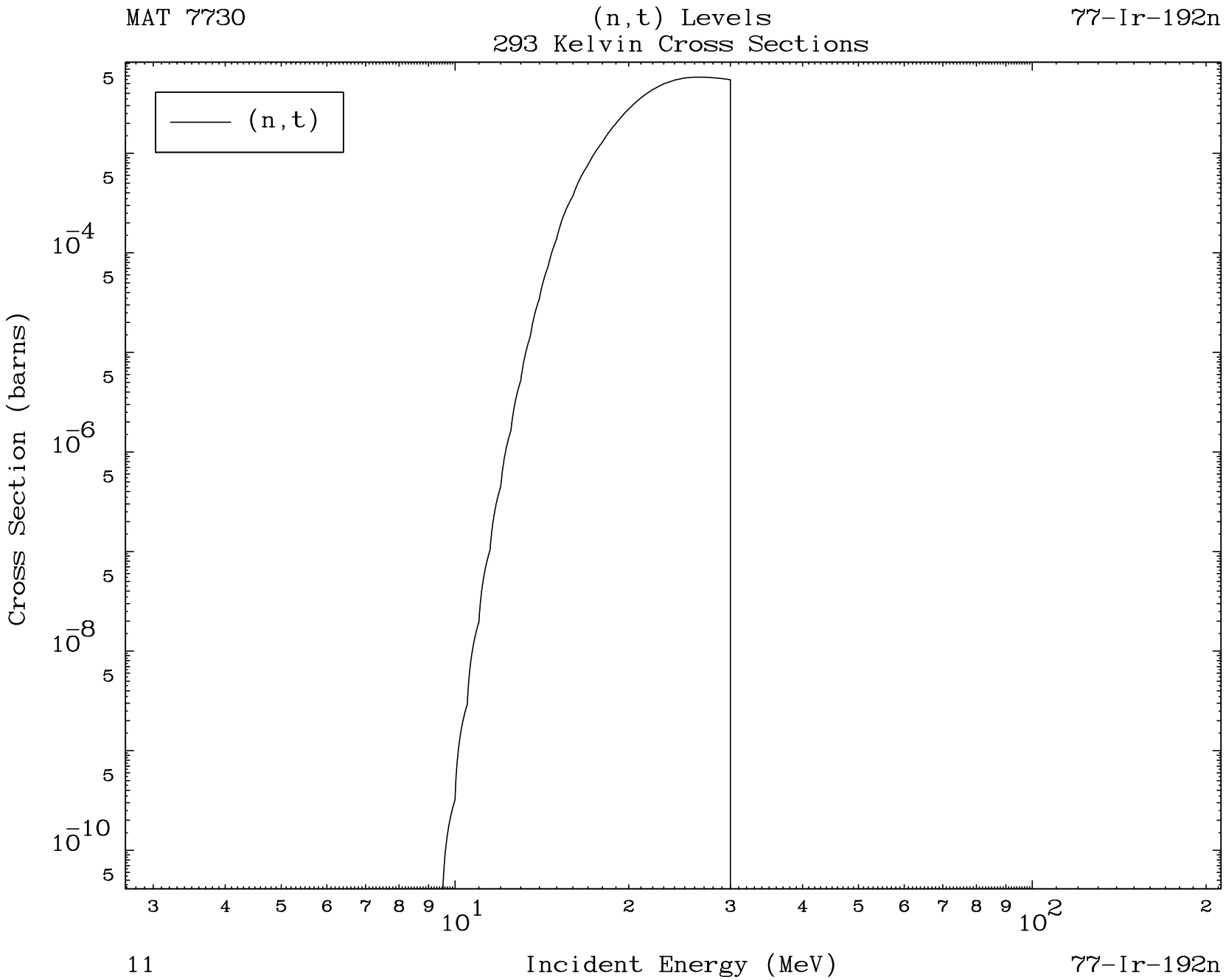

MAT 7730
Charged Particle
293 Kelvin Cross Sections
77-Ir-192n
(n,n') α
(n,p)
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
Cross Section (barns)
Incident Energy (MeV)
6
77-Ir-192n

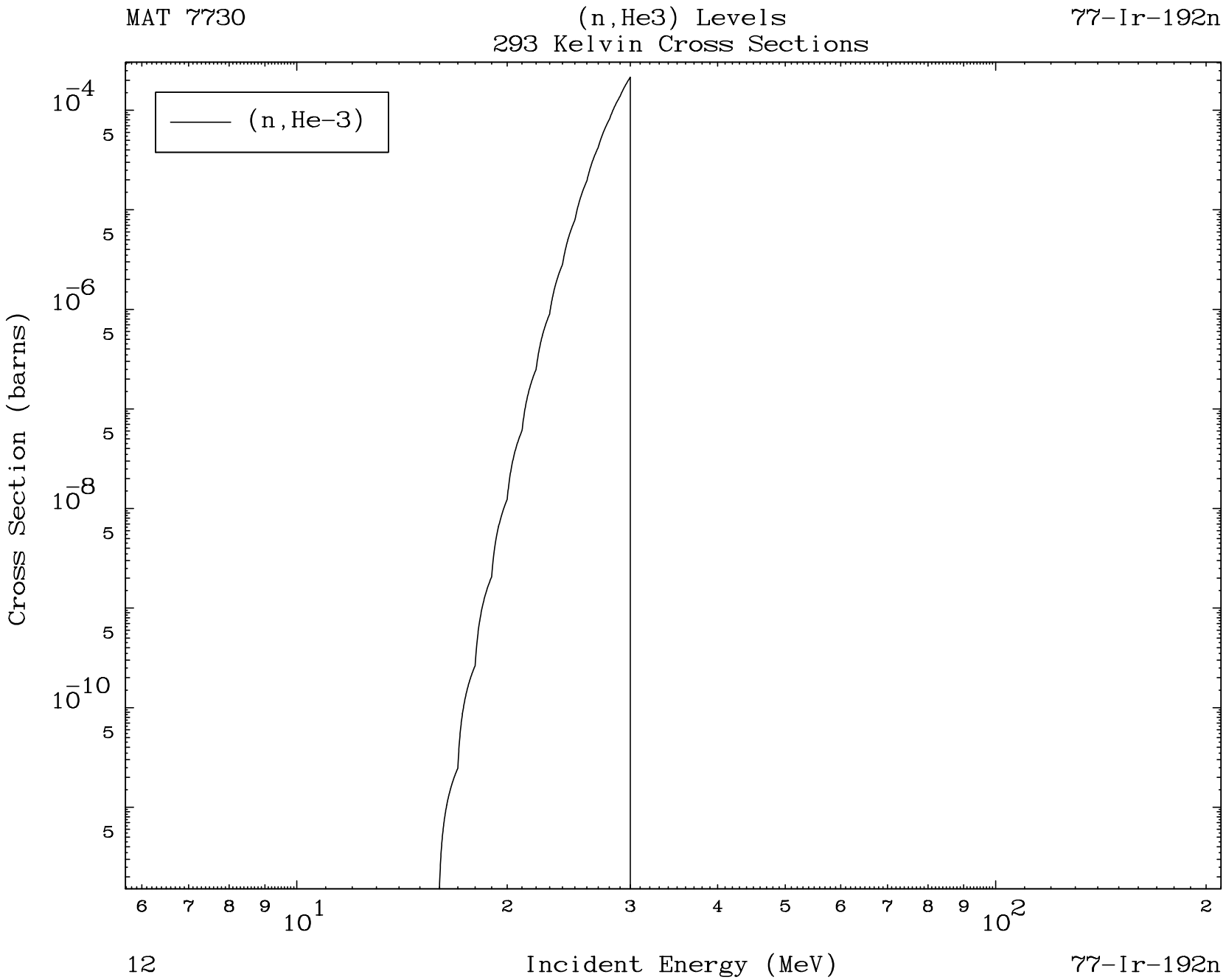

MAT 7730
Particle Production
293 Kelvin Cross Sections
77-Ir-192n
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production
Cross Section (barns)
Incident Energy (MeV)
77-Ir-192n
7

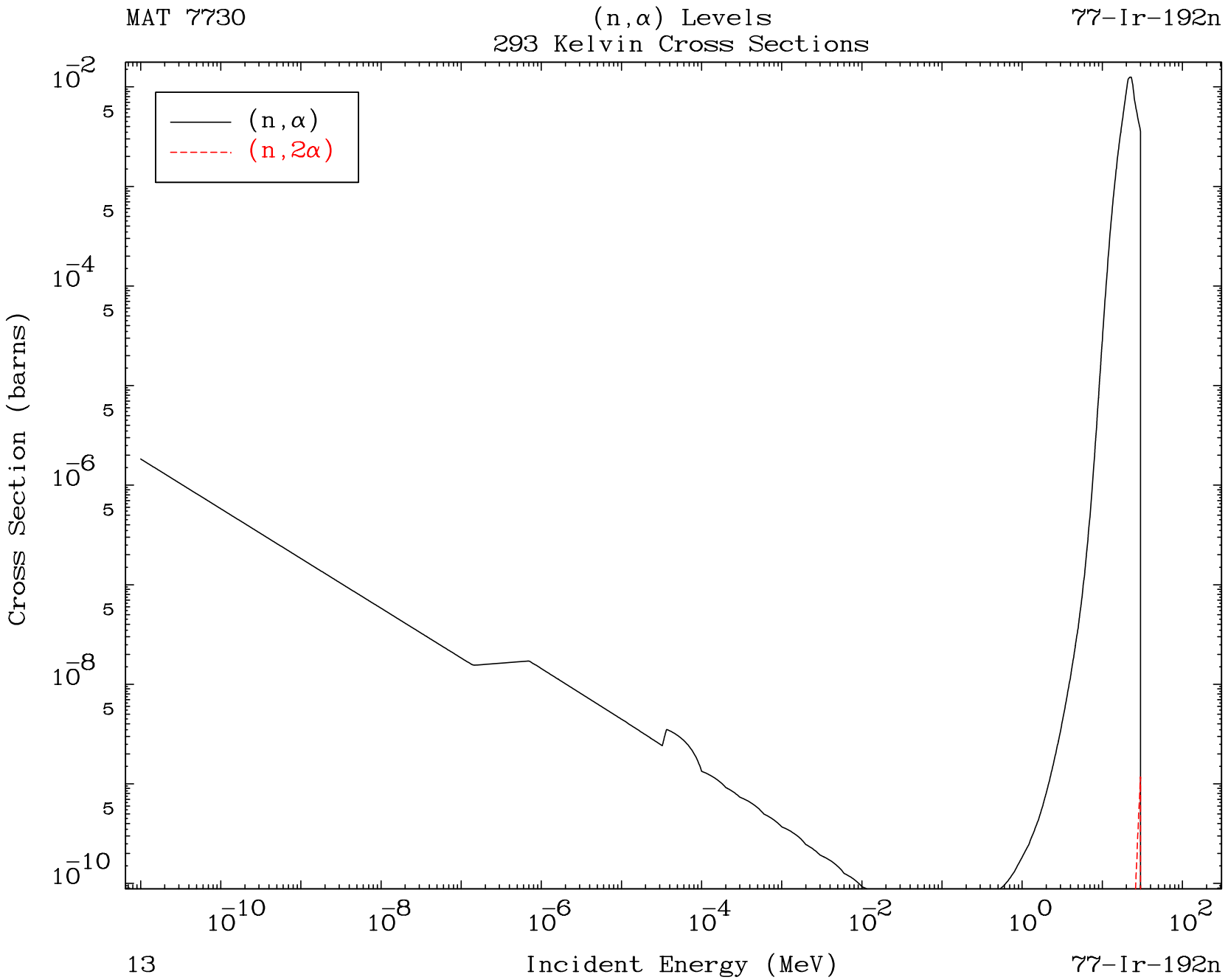

MAT 7730
(n,n') Levels
293 Kelvin Cross Sections
77-Ir-192n
Inelastic
MT= 51 (n,n') Level
MT= 52 (n,n') Level
MT= 53 (n,n') Level
(n,n') Continuum
Cross Section (barns)
Incident Energy (MeV)
8
77-Ir-192n

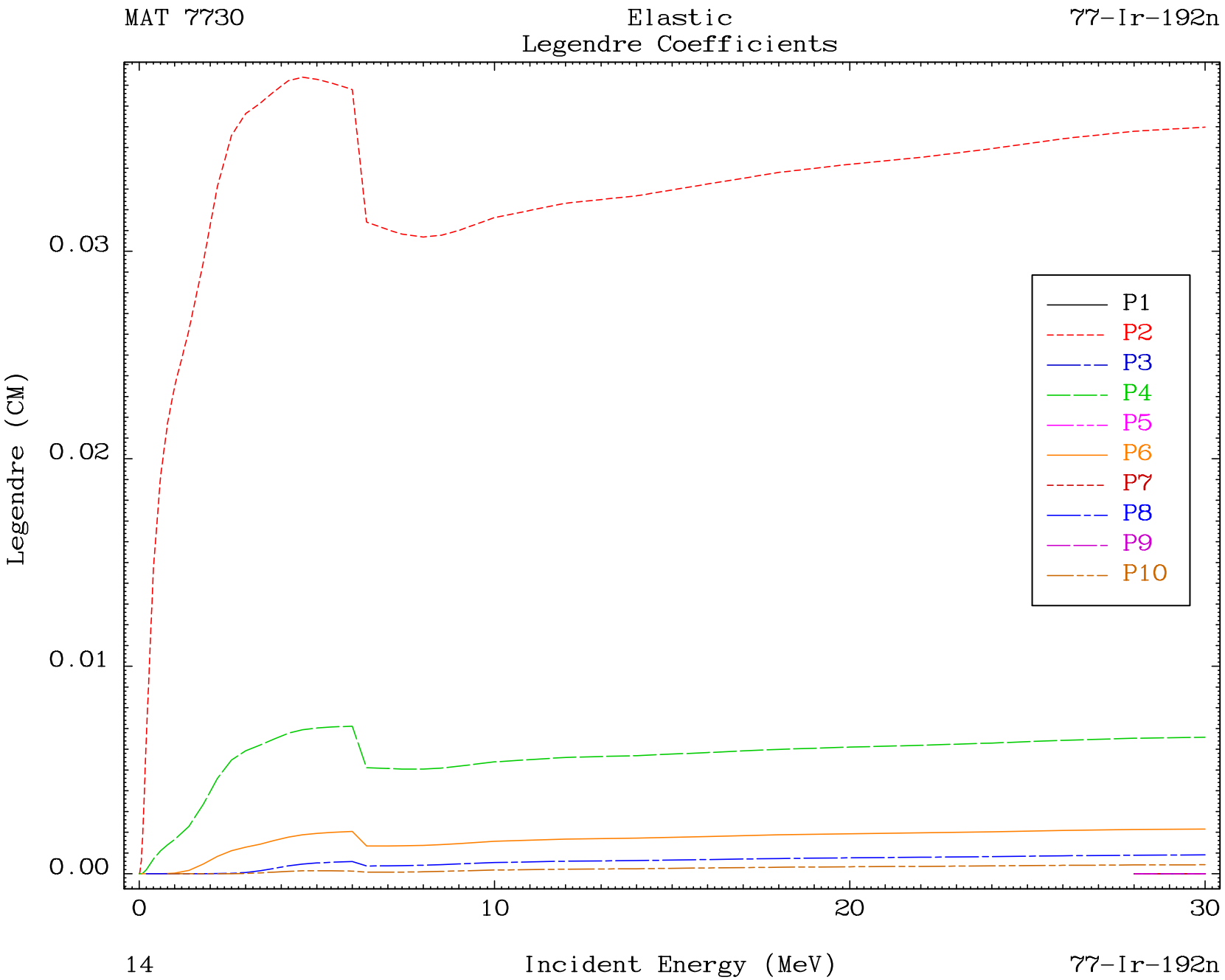

MAT 7730
(n,p) Levels
77-Ir-192n
293 Kelvin Cross Sections
(n,p)
Cross Section (barns)
Incident Energy (MeV)
9
77-Ir-192n

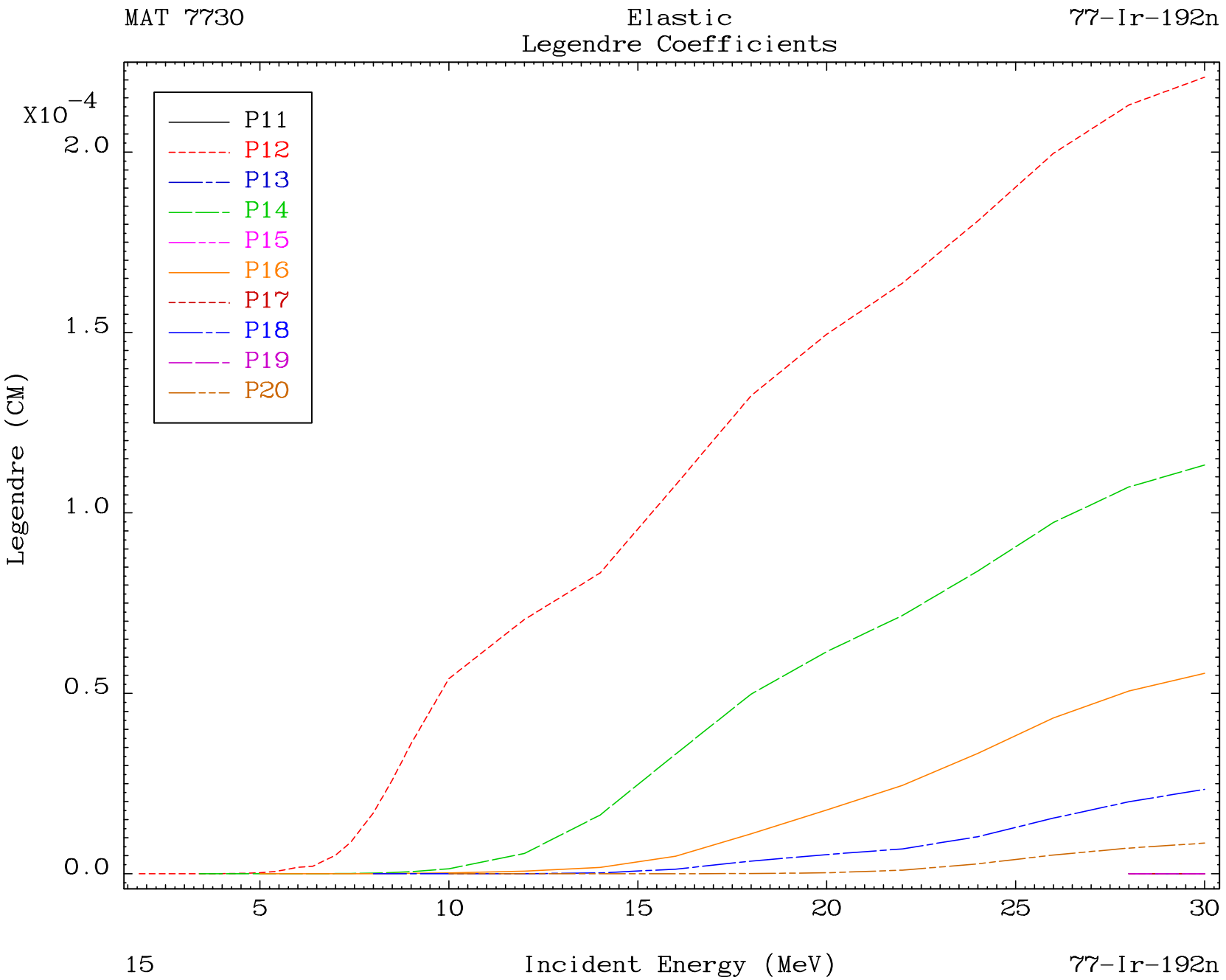

MAT 7730
(n,d) Levels
293 Kelvin Cross Sections
77-Ir-192n
(n,d)
Cross Section (barns)
Incident Energy (MeV)
77-Ir-192n

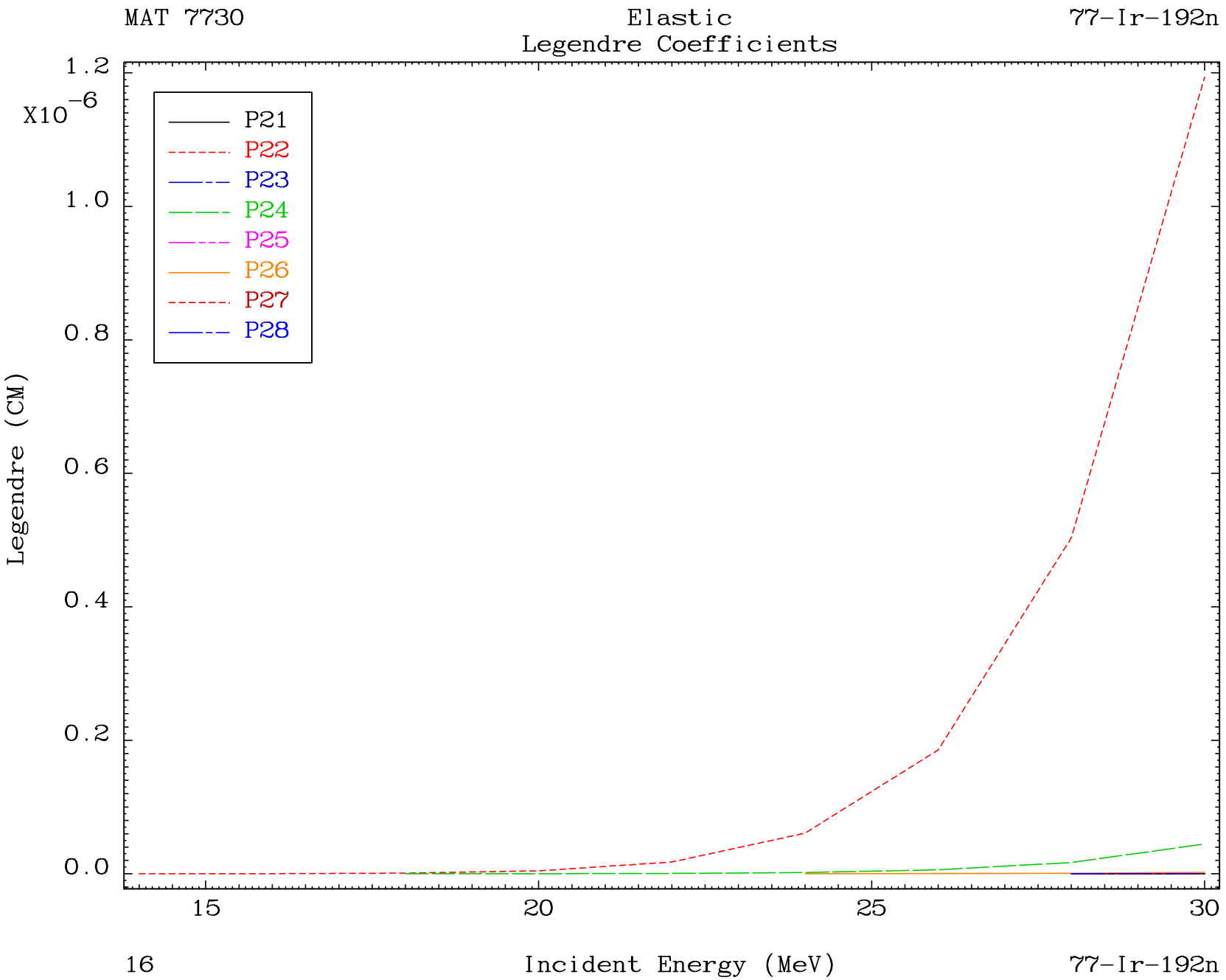

MAT 7730
(n,t) Levels
77-Ir-192n
293 Kelvin Cross Sections
(n,t)
Cross Section (barns)
Incident Energy (MeV)
11
77-Ir-192n

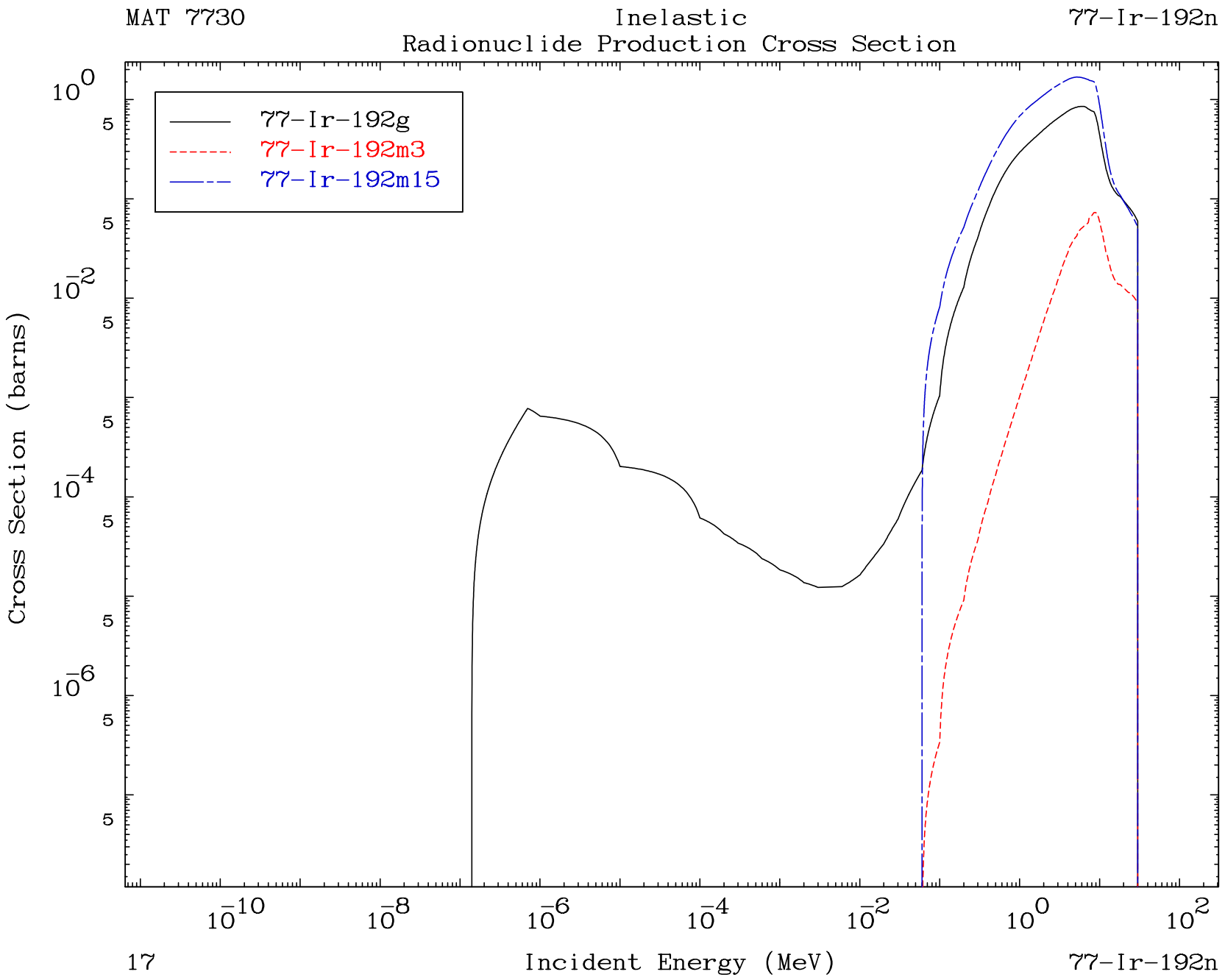

MAT 7730
(n,He3) Levels
77-Ir-192n
293 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
10-4
10-6
10-8
10-10
5
6 7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
12
Incident Energy (MeV)
77-Ir-192n

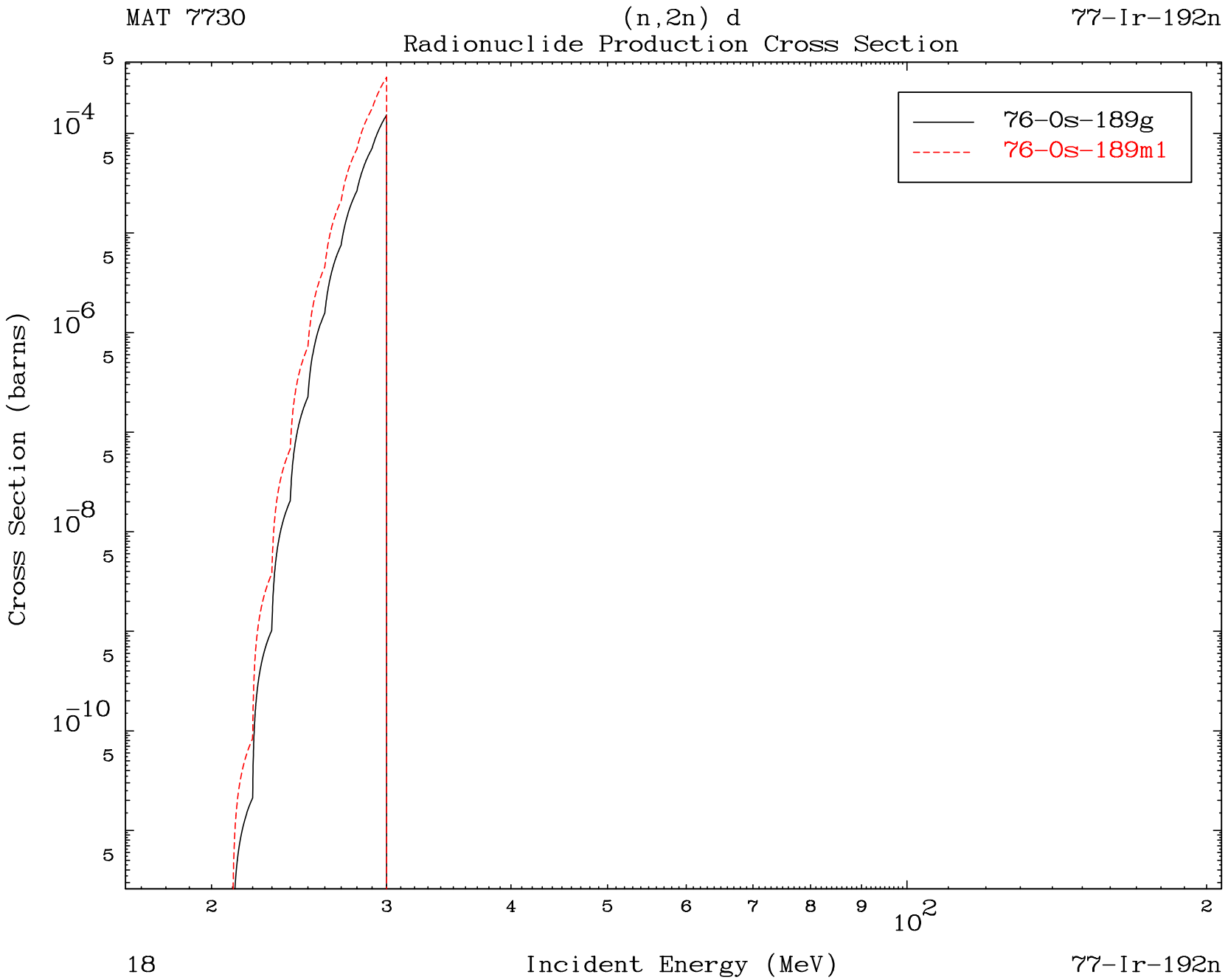

MAT 7730
(n,α) Levels
77-Ir-192n
293 Kelvin Cross Sections
(n,α)
(n,2α)
Cross Section (barns)
Incident Energy (MeV)
13
77-Ir-192n

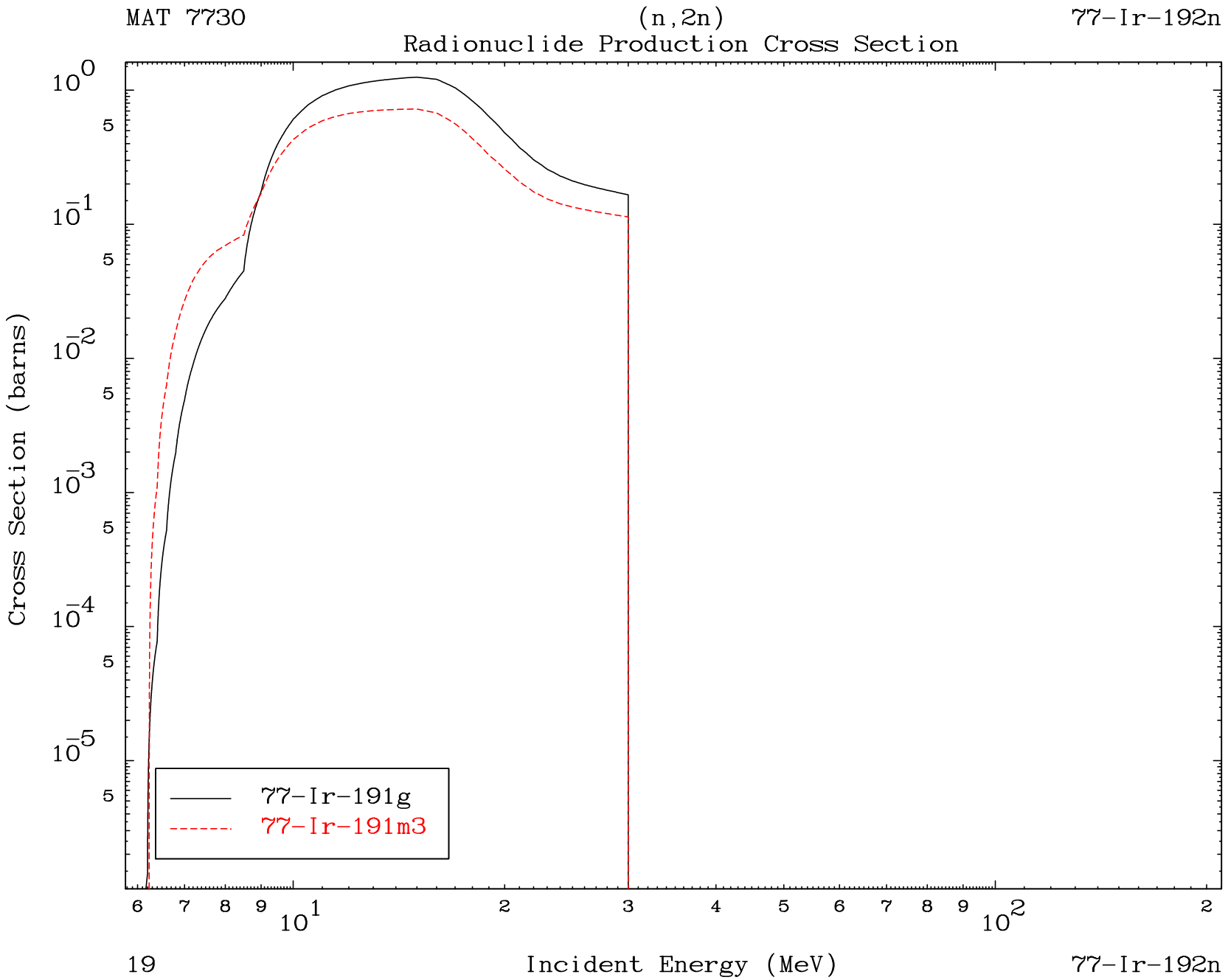

MAT 7730
Elastic
Legendre Coefficients
77-Ir-192n
Legendre (CM)
0.03
0.02
0.01
0.00
0
10
20
30
14
Incident Energy (MeV)
77-Ir-192n
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10

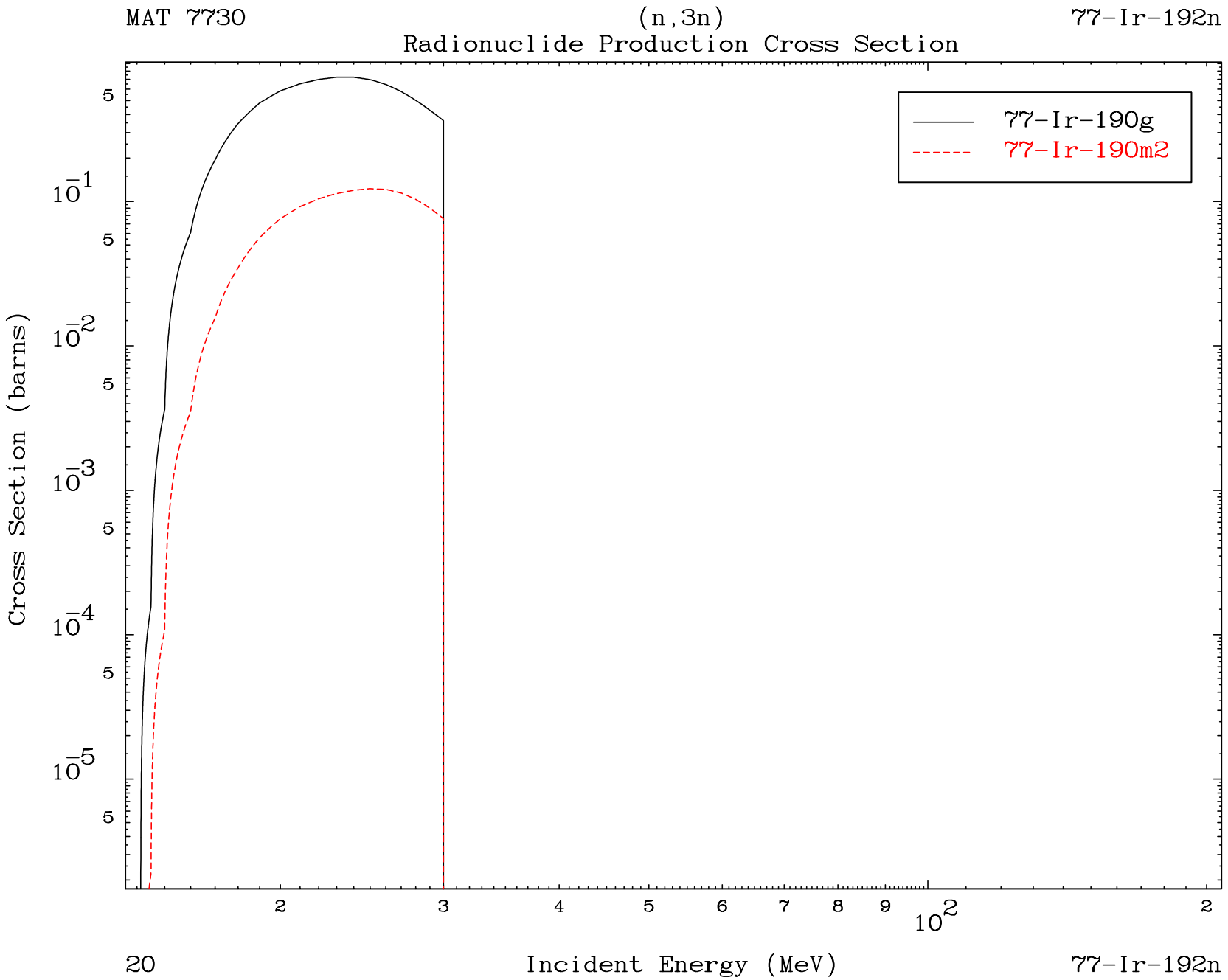

MAT 7730
Elastic
Legendre Coefficients
77-Ir-192n
X10 -4
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
5
10
15
20
25
30
15
Incident Energy (MeV)
77-Ir-192n

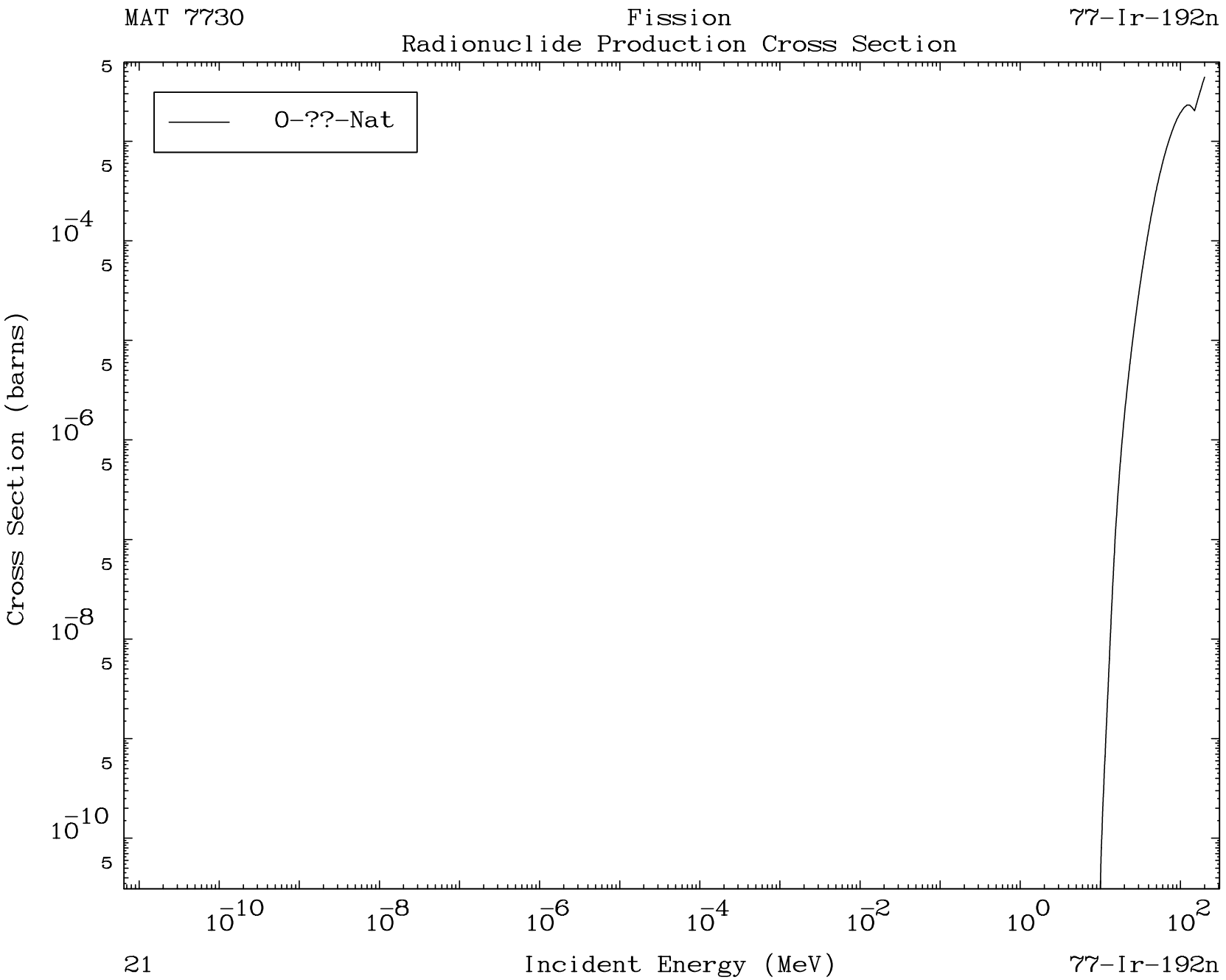

MAT 7730
Elastic
Legendre Coefficients
77-Ir-192n
X10^-6
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
15
20
25
30
16
Incident Energy (MeV)
77-Ir-192n

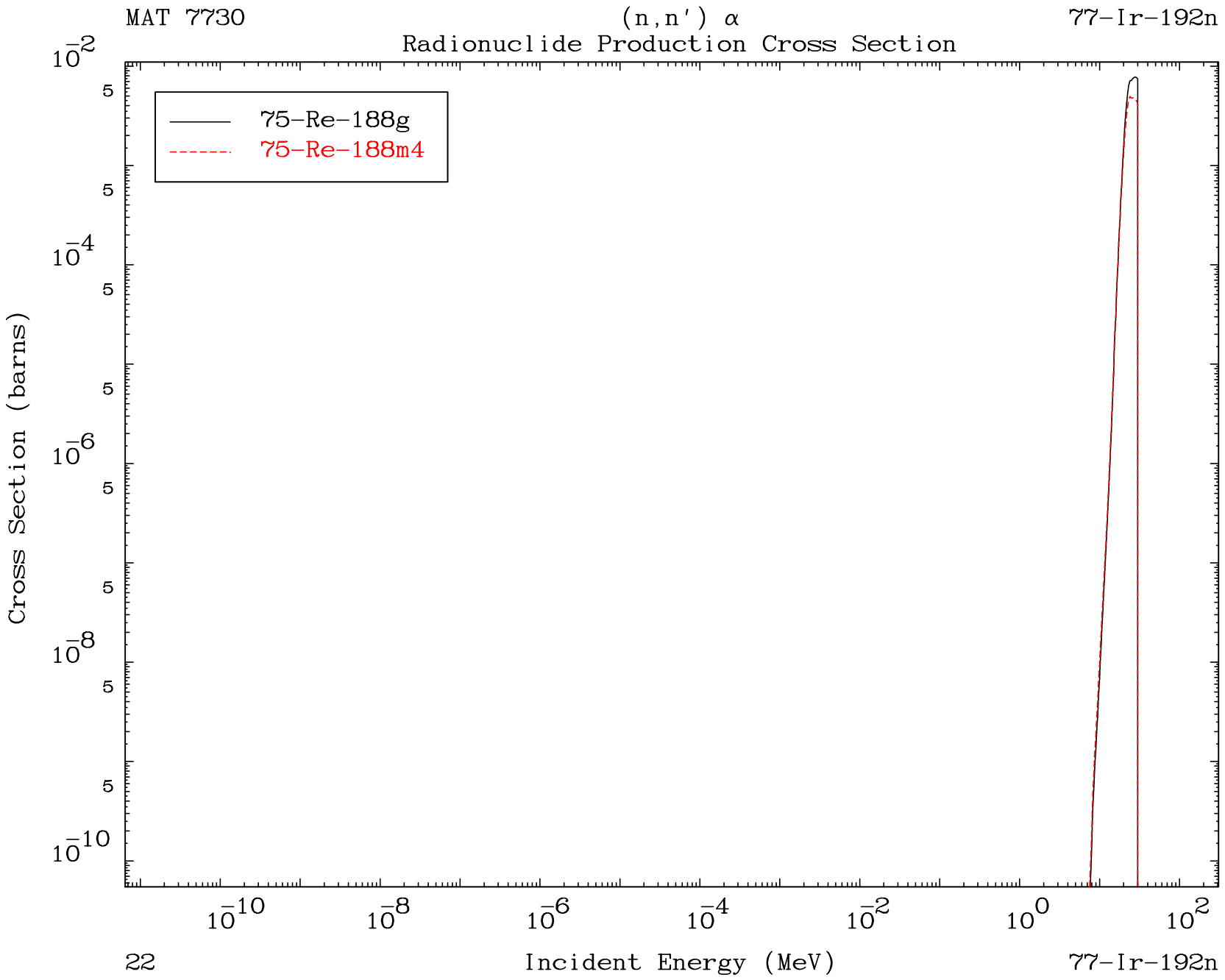

MAT 7730
Inelastic
77-Ir-192n
Radionuclide Production Cross Section
77-Ir-192g
77-Ir-192m3
77-Ir-192m15
Cross Section (barns)
Incident Energy (MeV)
17
77-Ir-192n

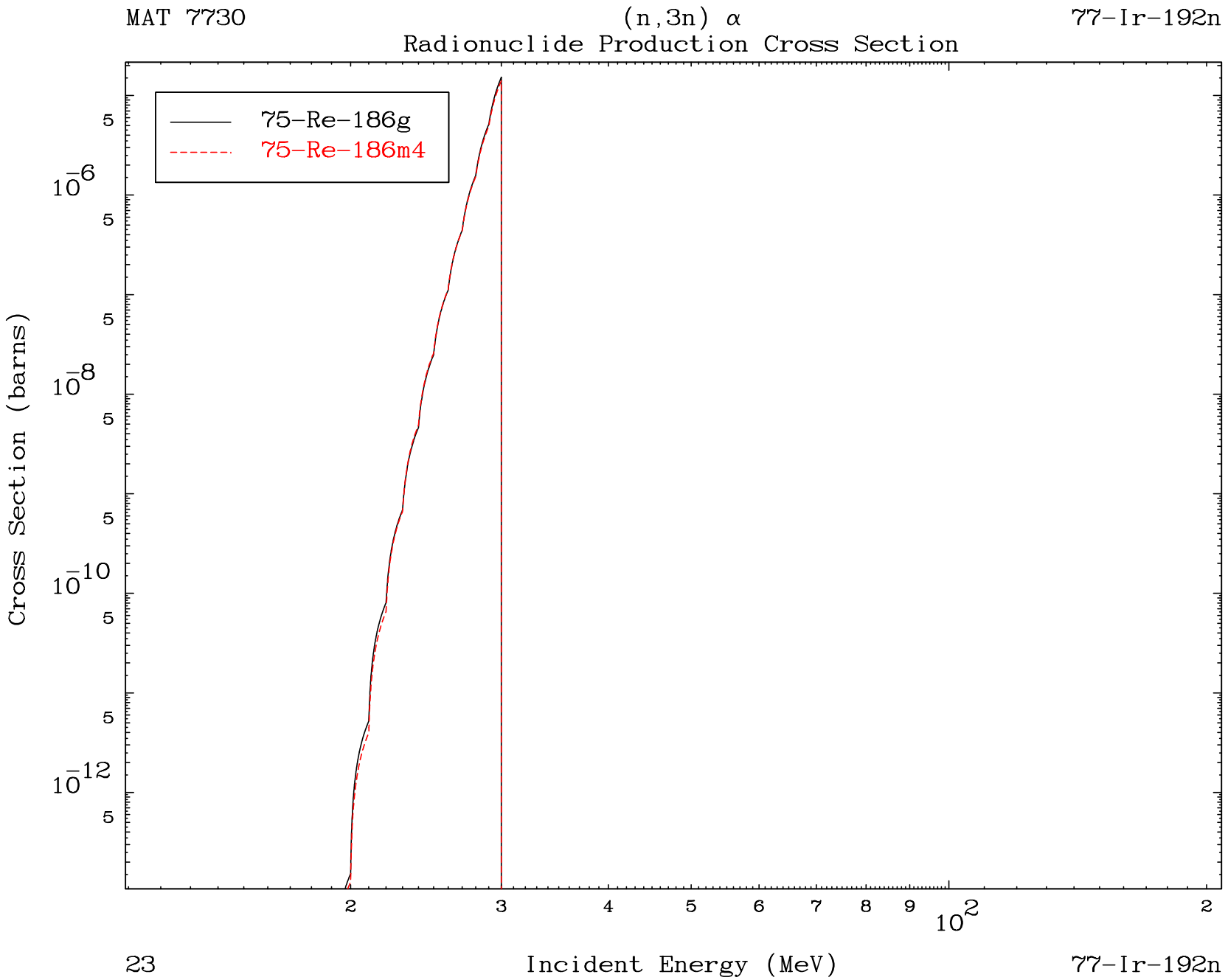

MAT 7730
(n,2n) d
77-Ir-192n
Radionuclide Production Cross Section
76-Os-189g
76-Os-189m1
Cross Section (barns)
Incident Energy (MeV)
18
77-Ir-192n

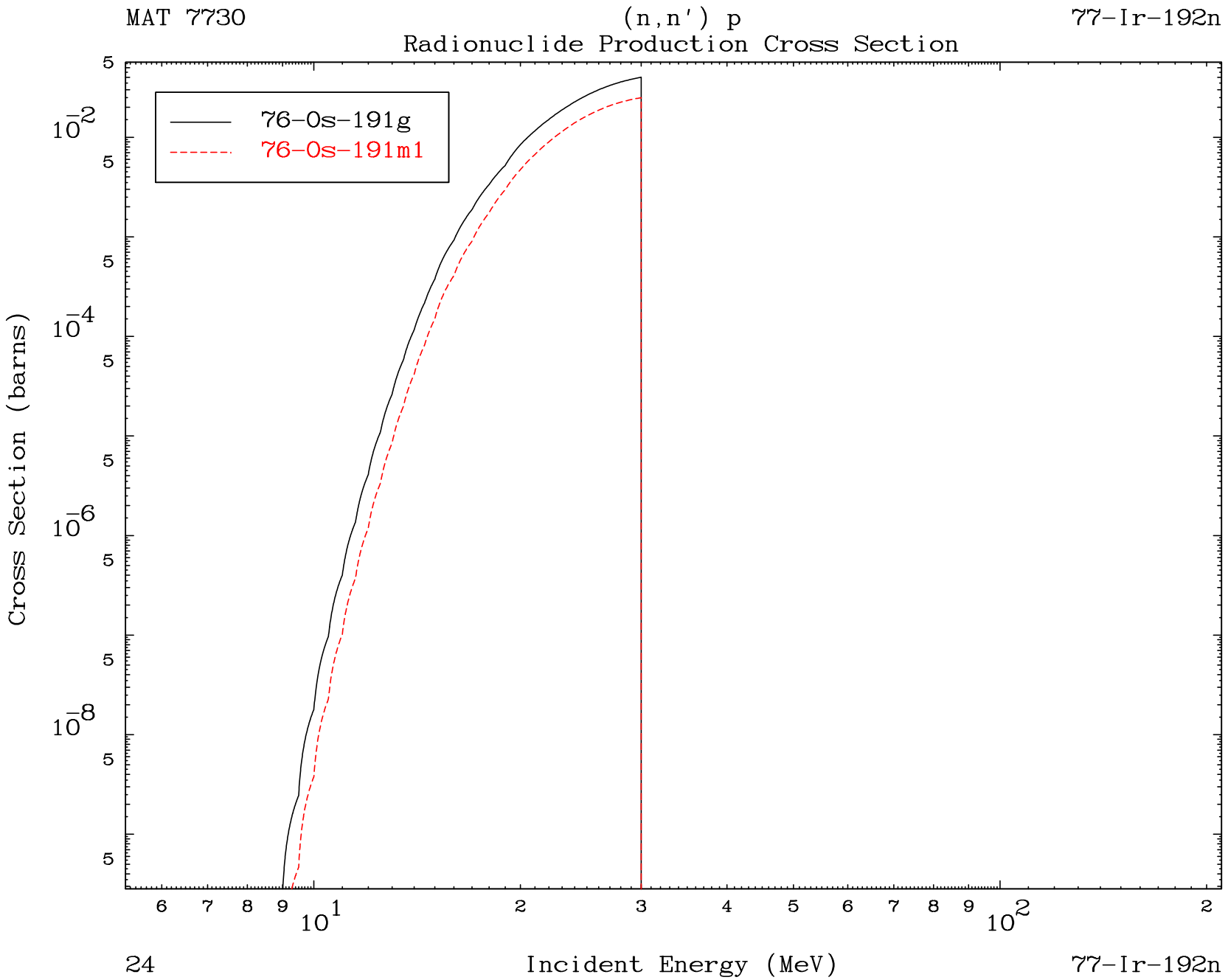

MAT 7730
(n,2n)
77-Ir-192n
Radionuclide Production Cross Section
Cross Section (barns)
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
5
6 7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
77-Ir-191g
77-Ir-191m3
19
Incident Energy (MeV)
77-Ir-192n

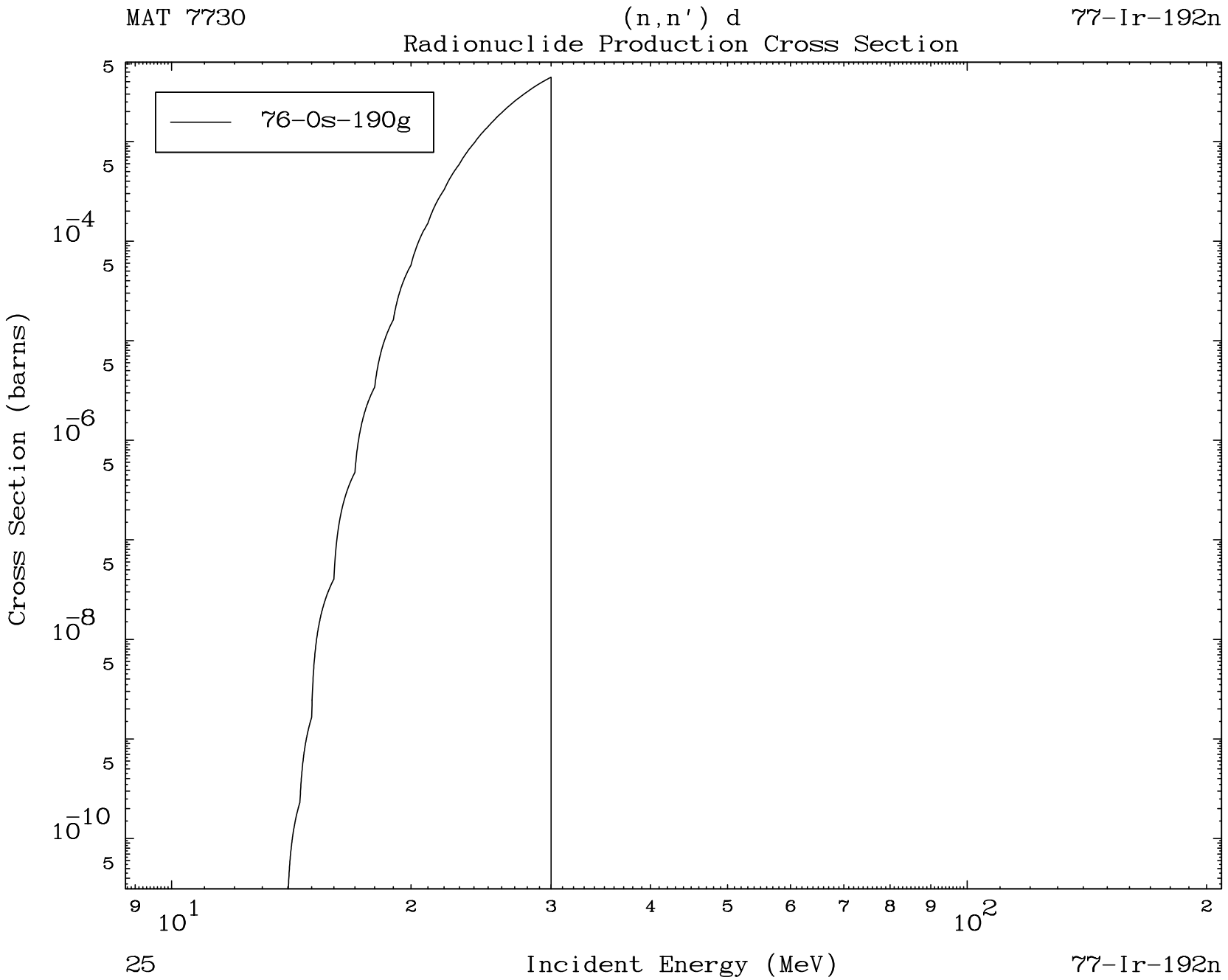

MAT 7730
(n,3n)
77-Ir-192n
Radionuclide Production Cross Section
77-Ir-190g
77-Ir-190m2
Cross Section (barns)
Incident Energy (MeV)
20
77-Ir-192n

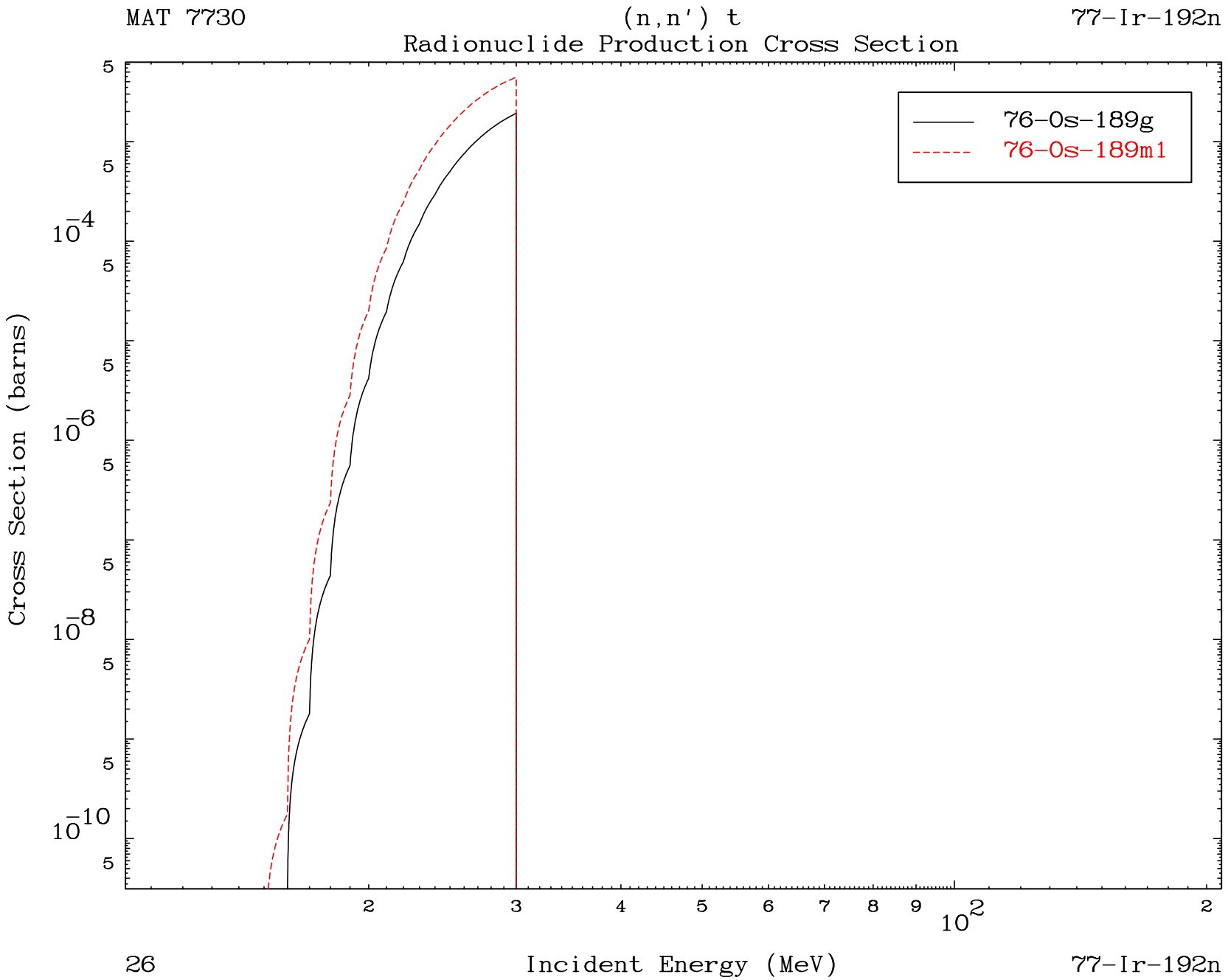

MAT 7730
Fission
77-Ir-192n
Radionuclide Production Cross Section
0-??-Nat
Cross Section (barns)
Incident Energy (MeV)
21
77-Ir-192n

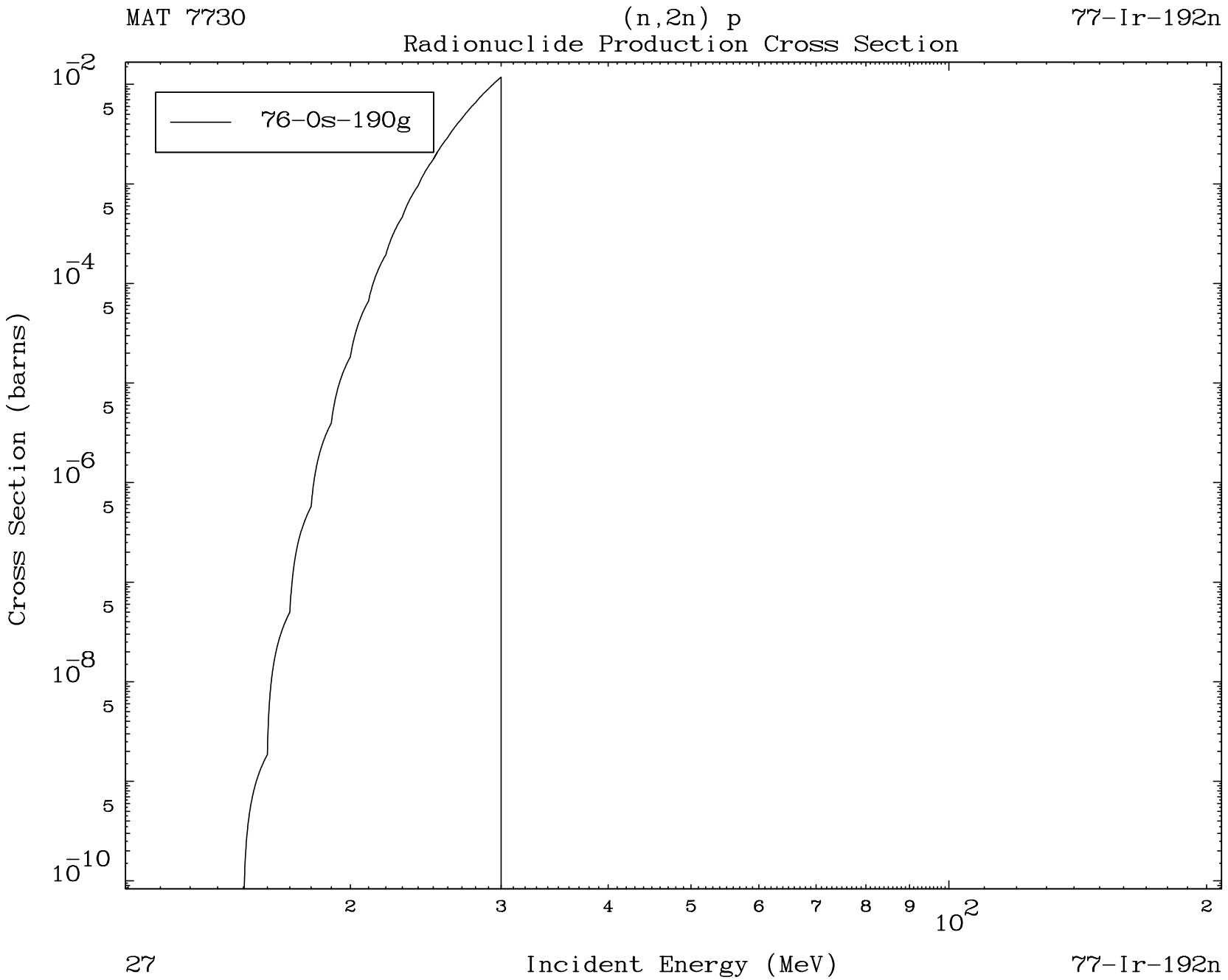

MAT 7730
(n,n') α
77-Ir-192n
Radionuclide Production Cross Section
75-Re-188g
75-Re-188m4
Cross Section (barns)
Incident Energy (MeV)
22
77-Ir-192n

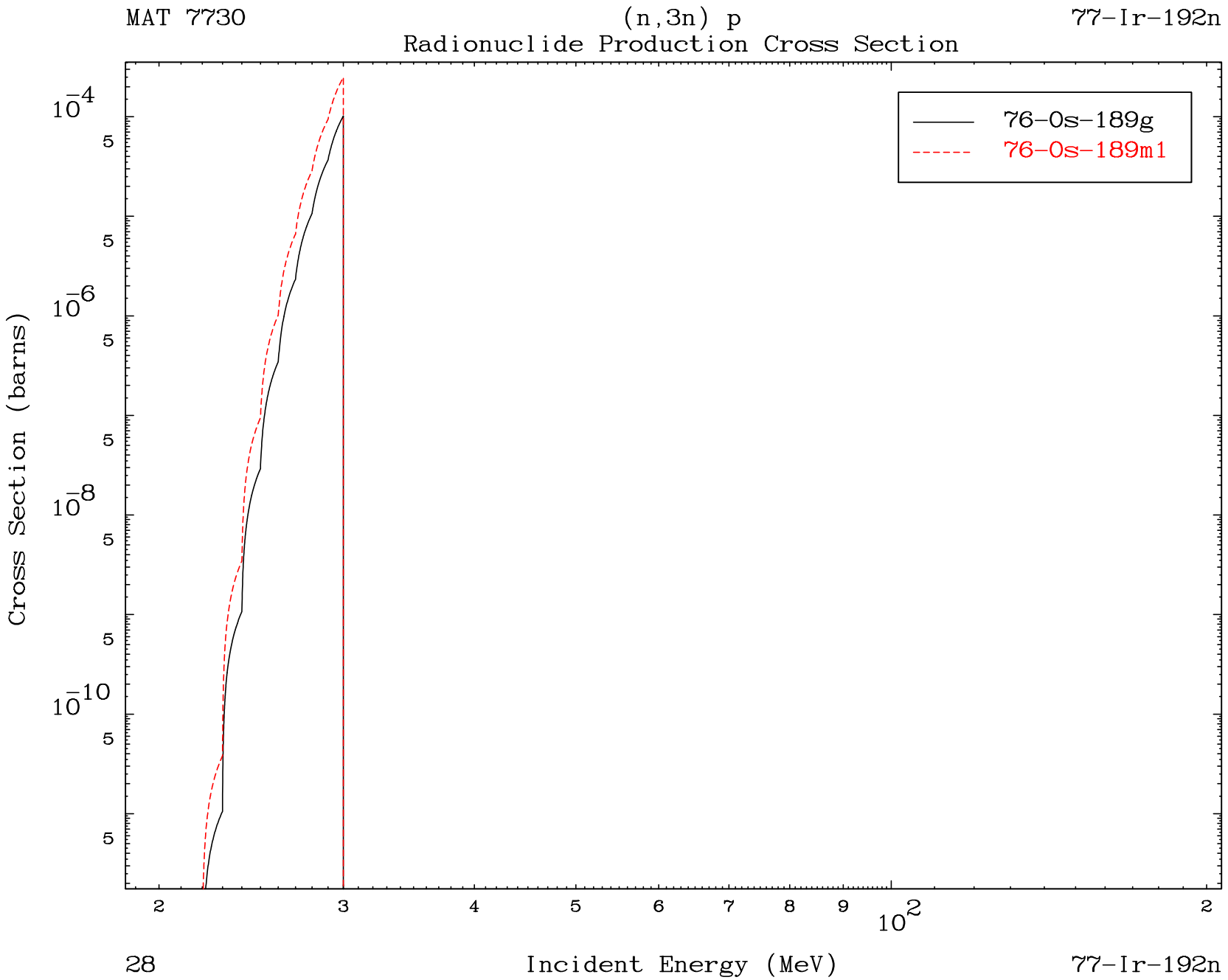

MAT 7730
(n,3n) α
77-Ir-192n
Radionuclide Production Cross Section
75-Re-186g
75-Re-186m4
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
2
3
4
5
6
7
8
9
10^2
2
23
Incident Energy (MeV)
77-Ir-192n

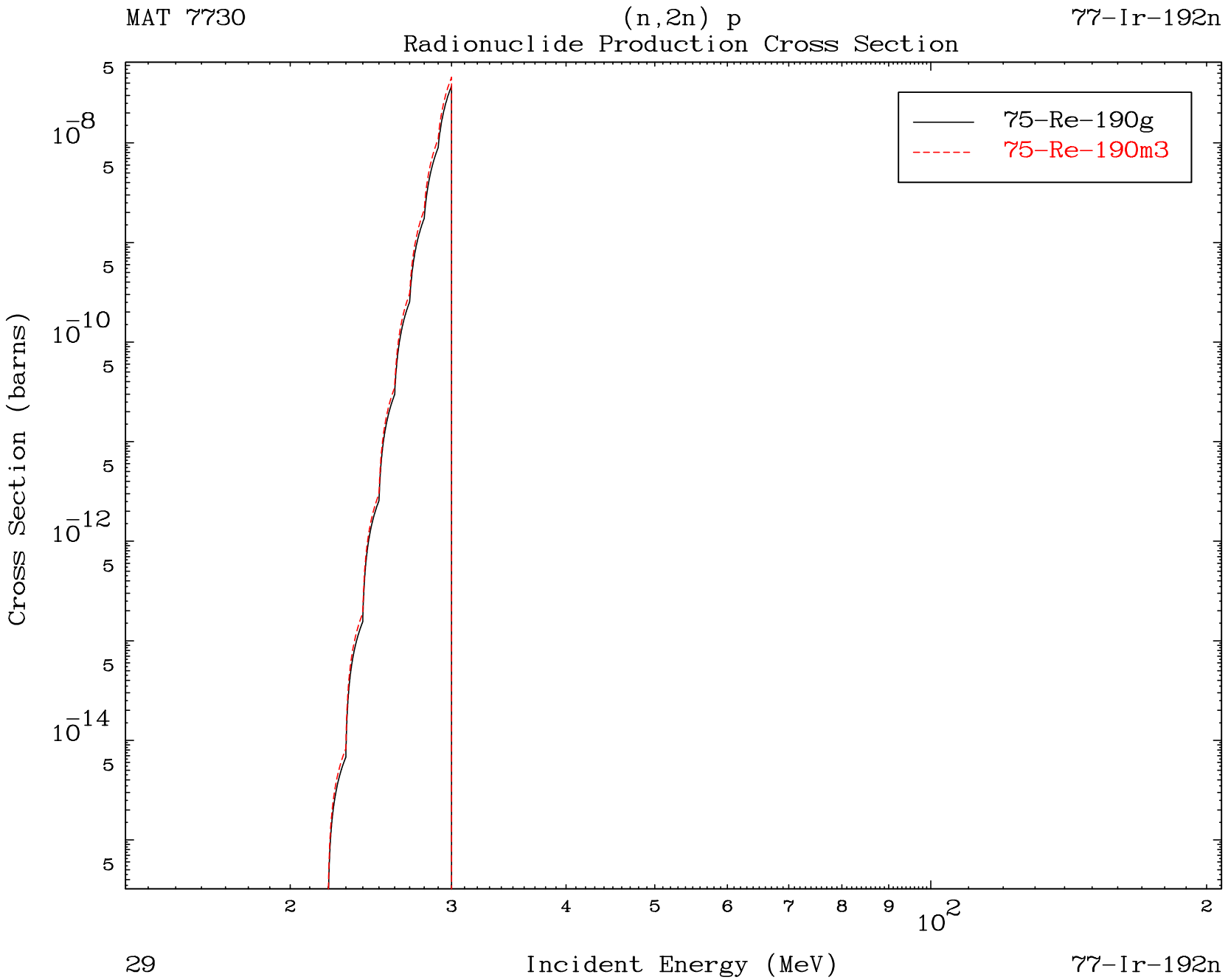

MAT 7730
(n,n') p
77-Ir-192n
Radionuclide Production Cross Section
76-Os-191g
76-Os-191m1
Cross Section (barns)
Incident Energy (MeV)
24
77-Ir-192n

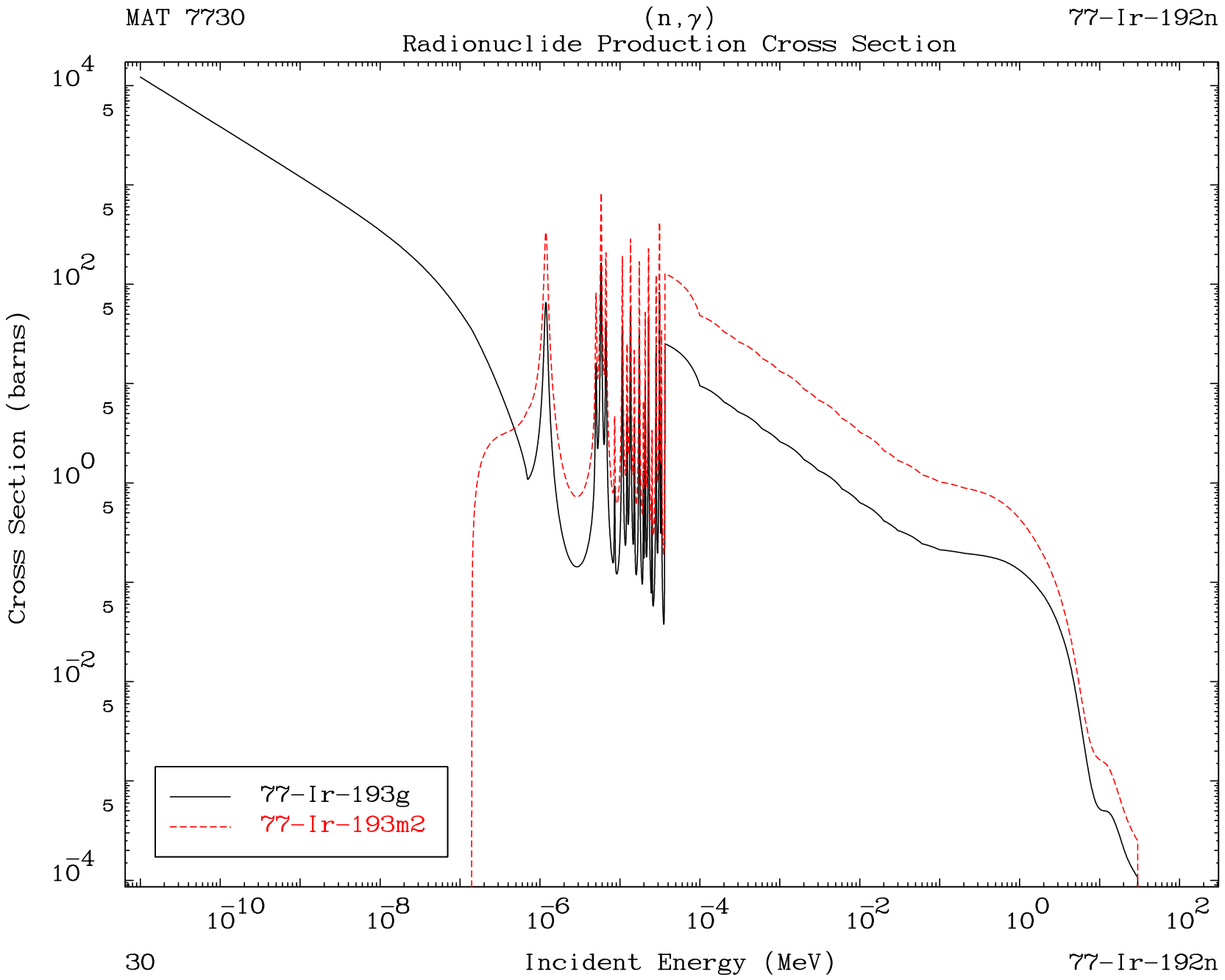

MAT 7730
(n,n') d
77-Ir-192n
Radionuclide Production Cross Section
76-0s-190g
Cross Section (barns)
10-4
10-6
10-8
10-10
Incident Energy (MeV)
25
77-Ir-192n

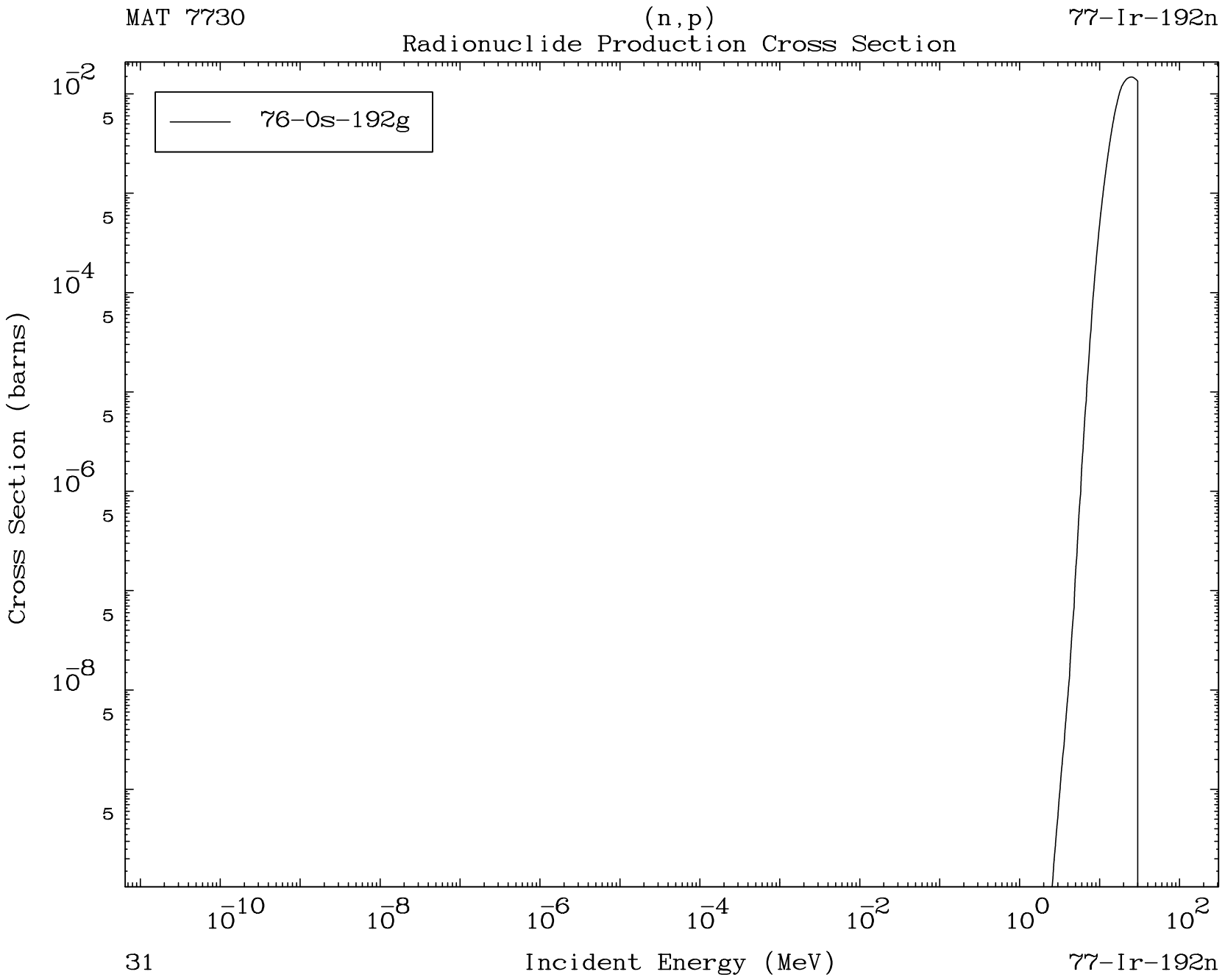

MAT 7730
(n,n') t
77-Ir-192n
Radionuclide Production Cross Section
76-Os-189g
76-Os-189m1
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
2
3
4
5
6
7
8
9
10^2
2
26
Incident Energy (MeV)
77-Ir-192n

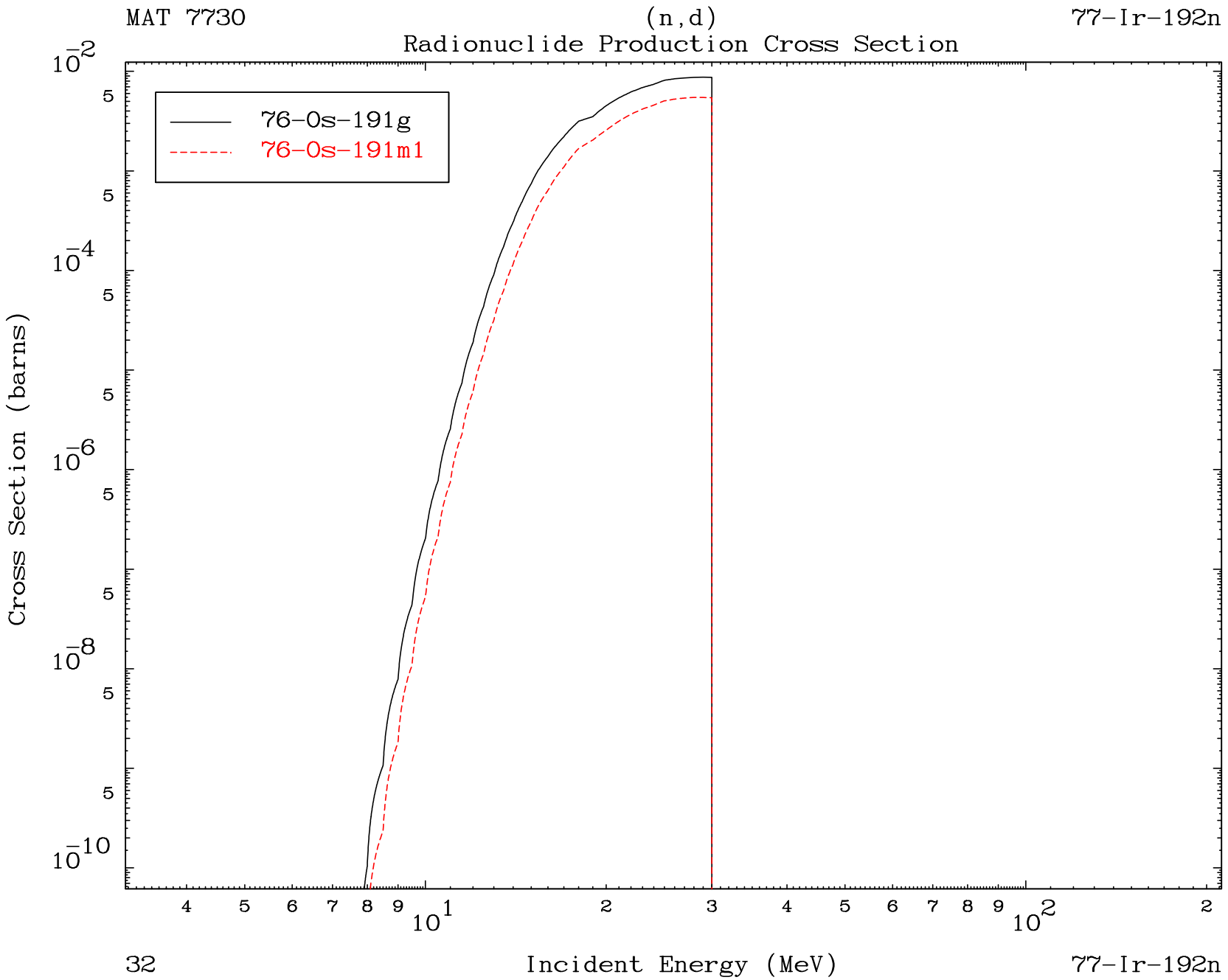

MAT 7730
(n,2n) p
77-Ir-192n
Radionuclide Production Cross Section
76-0s-190g
Cross Section (barns)
Incident Energy (MeV)
27
77-Ir-192n

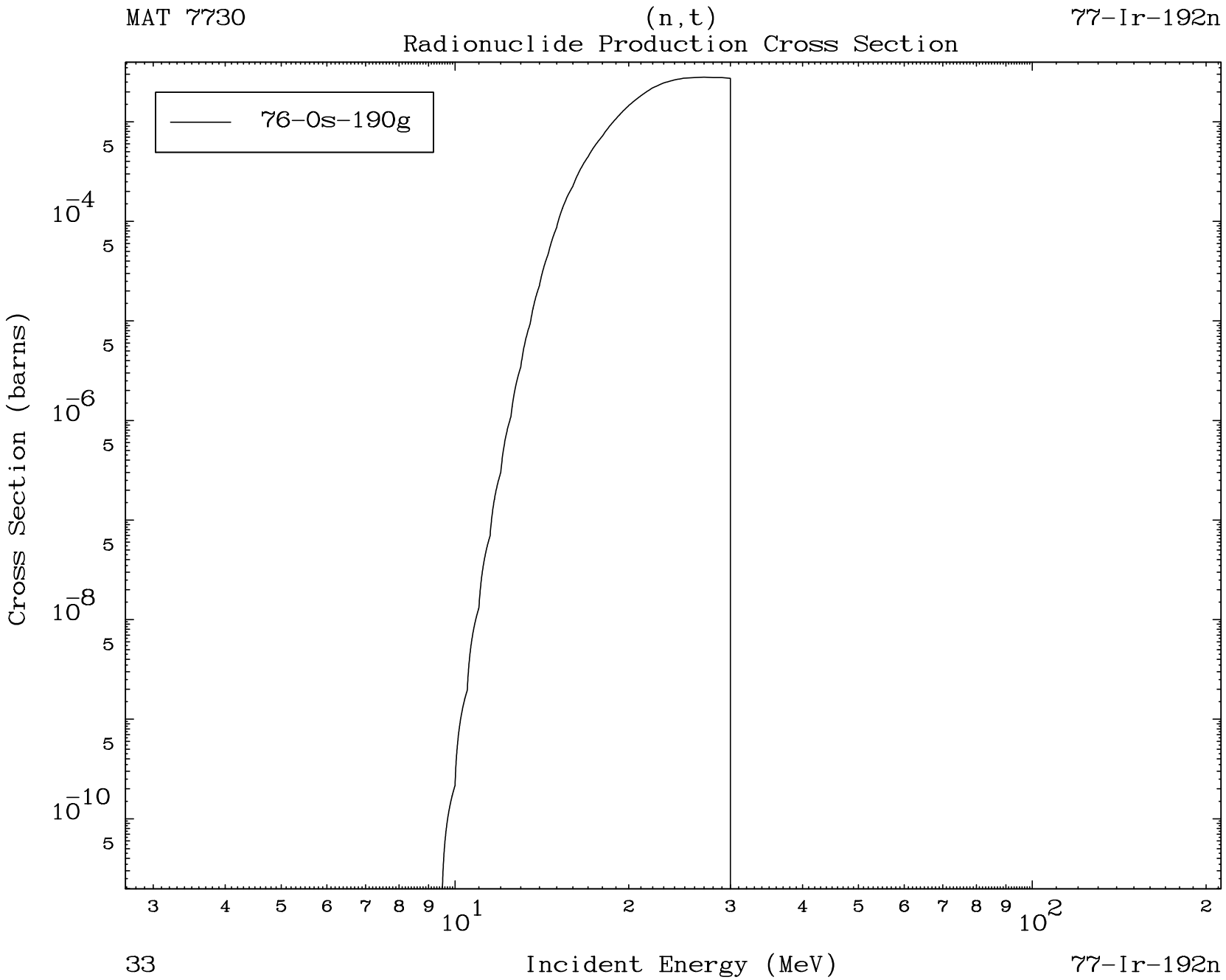

MAT 7730
(n,3n) p
77-Ir-192n
Radionuclide Production Cross Section
76-Os-189g
76-Os-189m1
Cross Section (barns)
10-4
10-6
10-8
10-10
5
2
3
4
5
6
7
8
9
10 2
2
28
Incident Energy (MeV)
77-Ir-192n

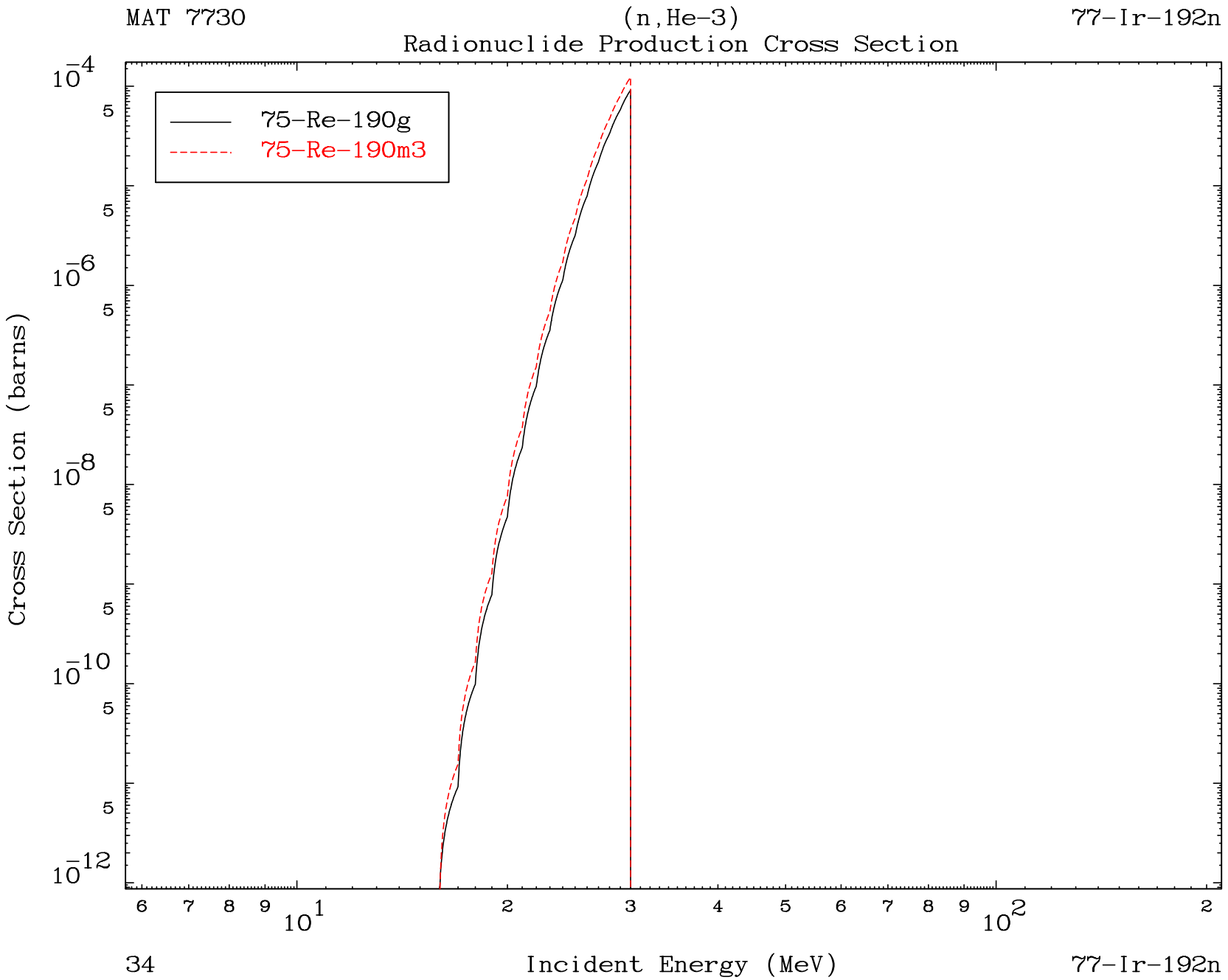

MAT 7730
(n,2n) p
77-Ir-192n
Radionuclide Production Cross Section
75-Re-190g
75-Re-190m3
Cross Section (barns)
Incident Energy (MeV)
29
77-Ir-192n


MAT 7730
(n,γ)
77-Ir-192n
Radionuclide Production Cross Section
Cross Section (barns)
10^4
10^2
10^0
10^-2
10^-4
5
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
77-Ir-193g
77-Ir-193m2
30
Incident Energy (MeV)
77-Ir-192n


MAT 7730
(n,p)
77-Ir-192n
Radionuclide Production Cross Section
76-0s-192g
Cross Section (barns)
Incident Energy (MeV)
31
77-Ir-192n


MAT 7730
(n,d)
77-Ir-192n
Radionuclide Production Cross Section
76-Os-191g
76-Os-191m1
Cross Section (barns)
Incident Energy (MeV)
32
77-Ir-192n


MAT 7730
(n,t)
77-Ir-192n
Radionuclide Production Cross Section
76-0s-190g
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
3 4 5 6 7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
33
Incident Energy (MeV)
77-Ir-192n


MAT 7730
(n,He-3)
77-Ir-192n
Radionuclide Production Cross Section
75-Re-190g
75-Re-190m3
Cross Section (barns)
Incident Energy (MeV)
34
77-Ir-192n