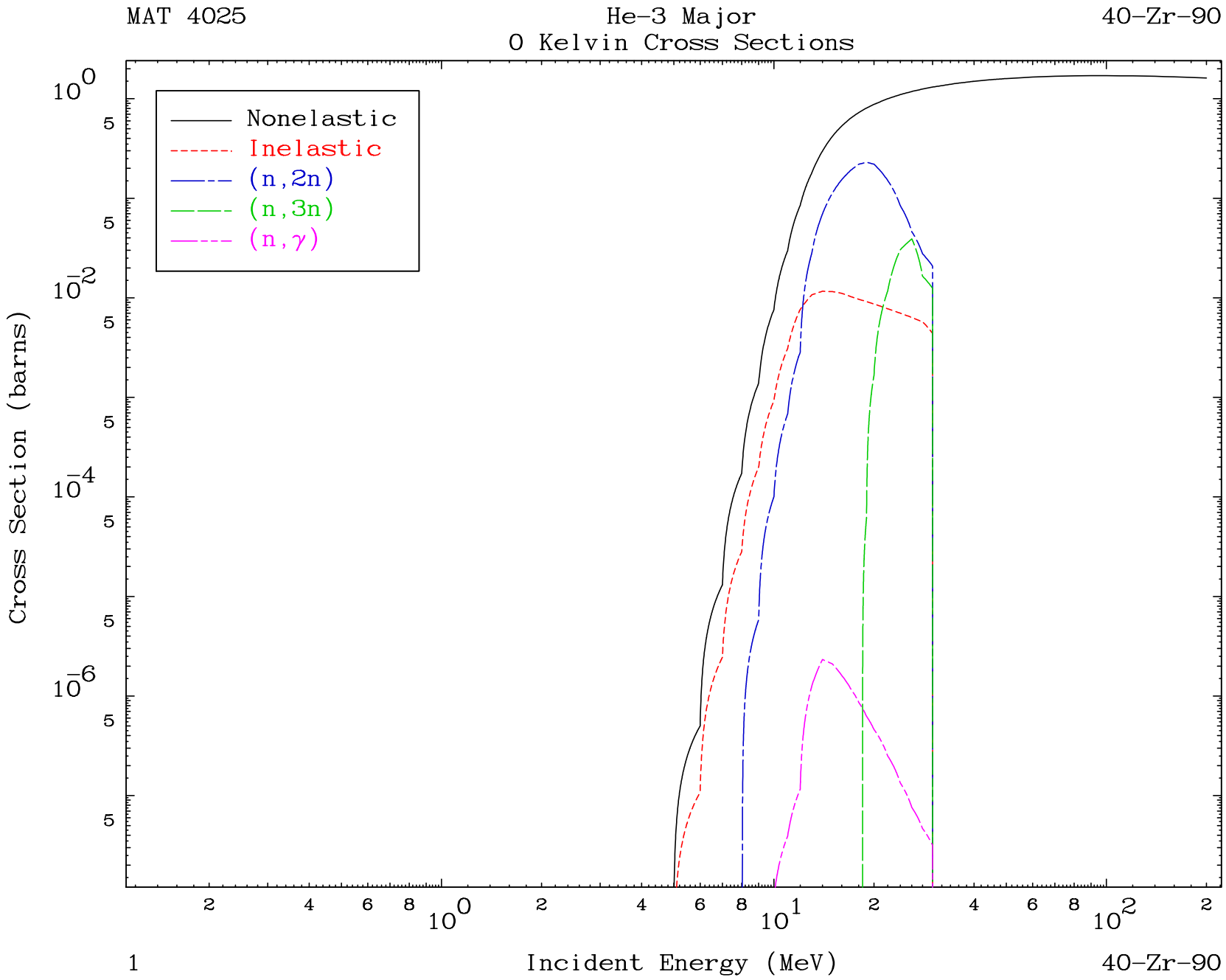
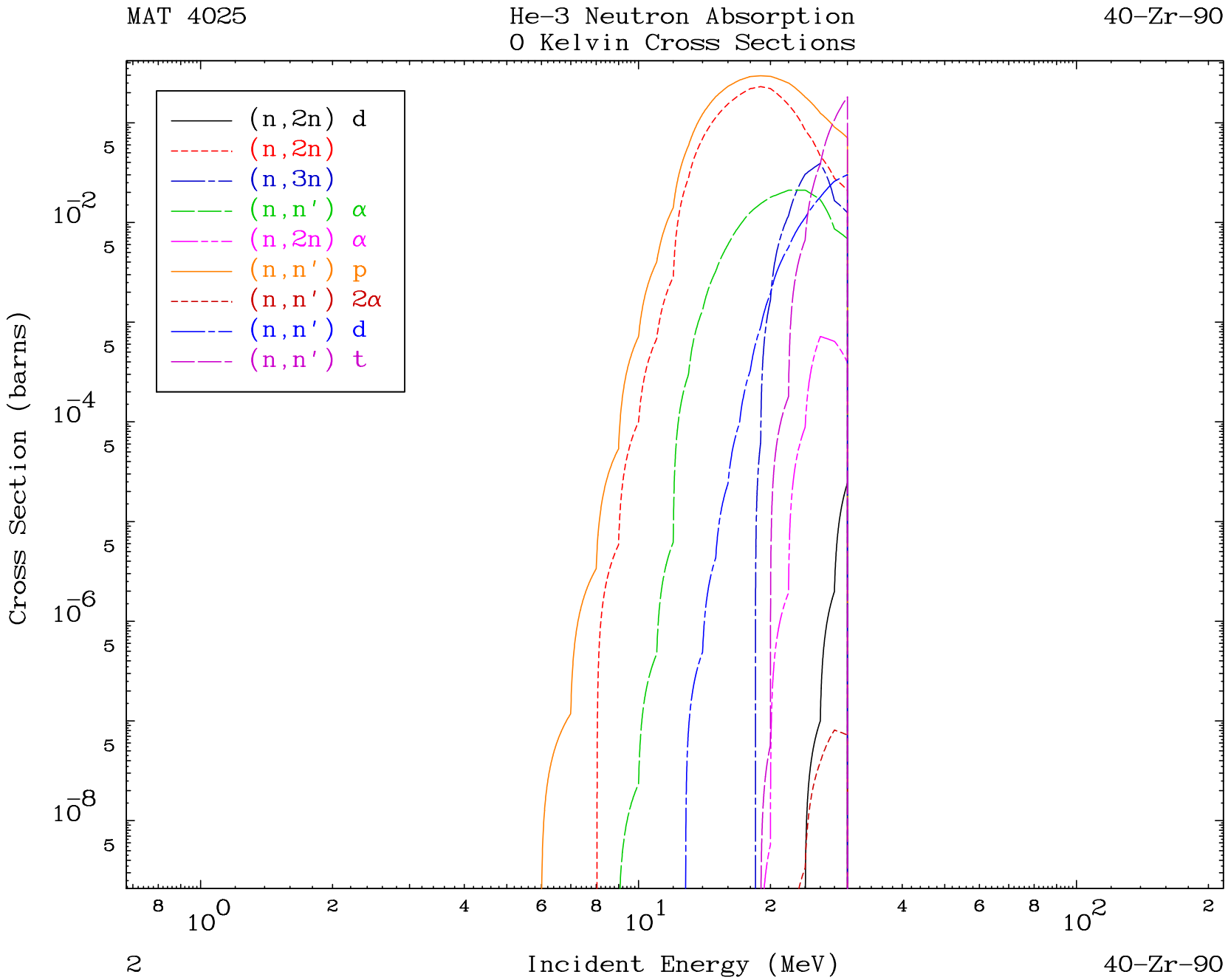
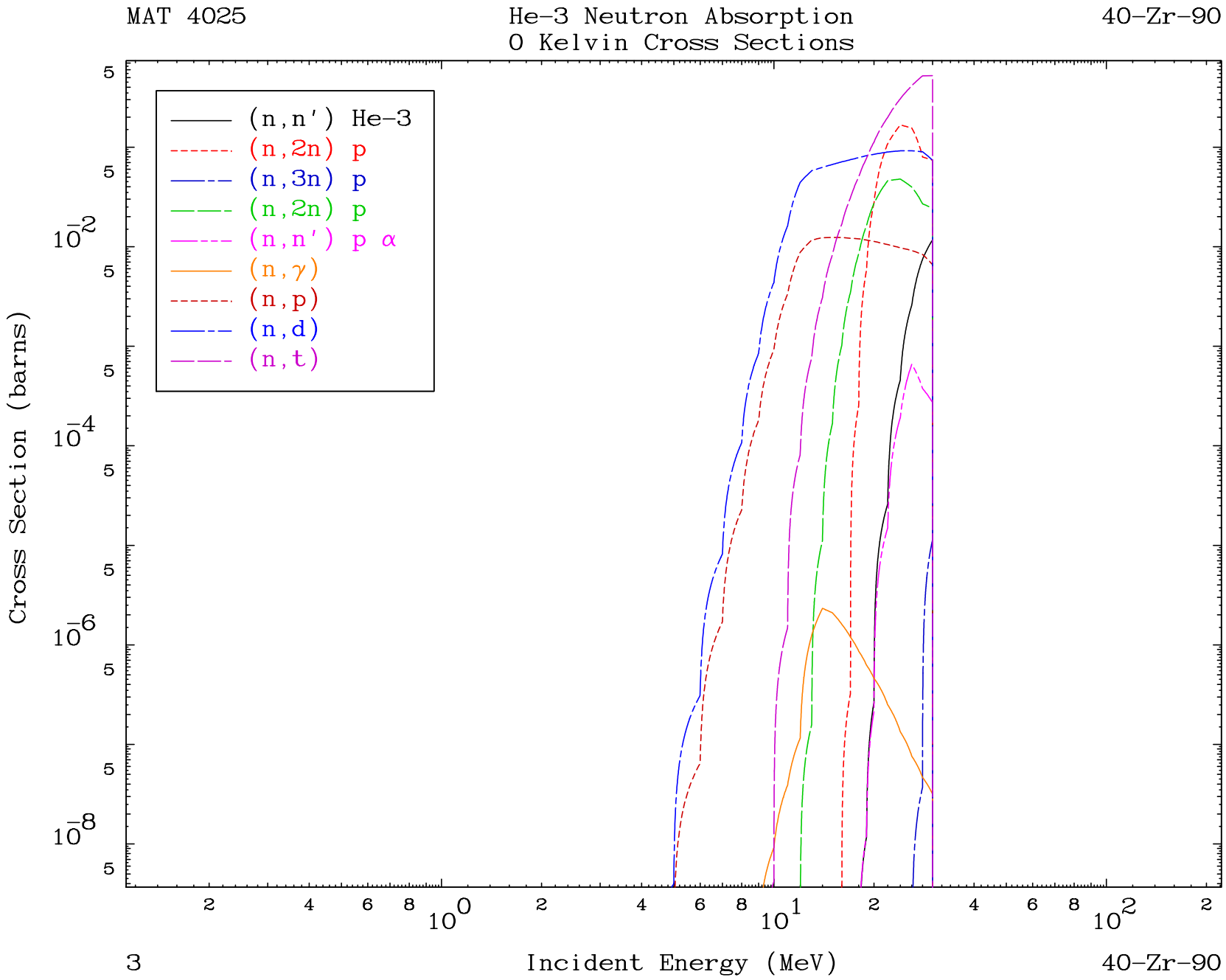
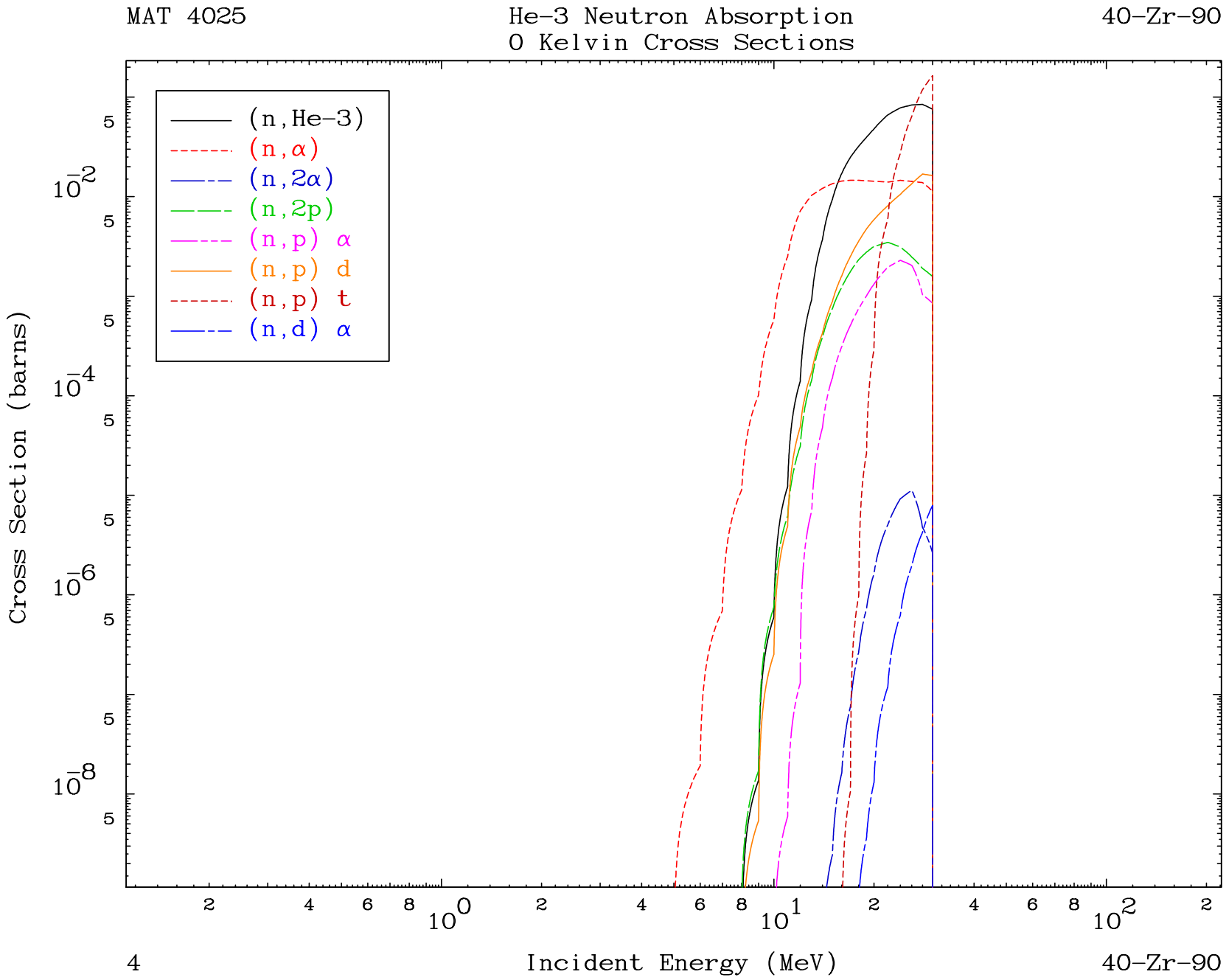
Program EVALPLOT
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

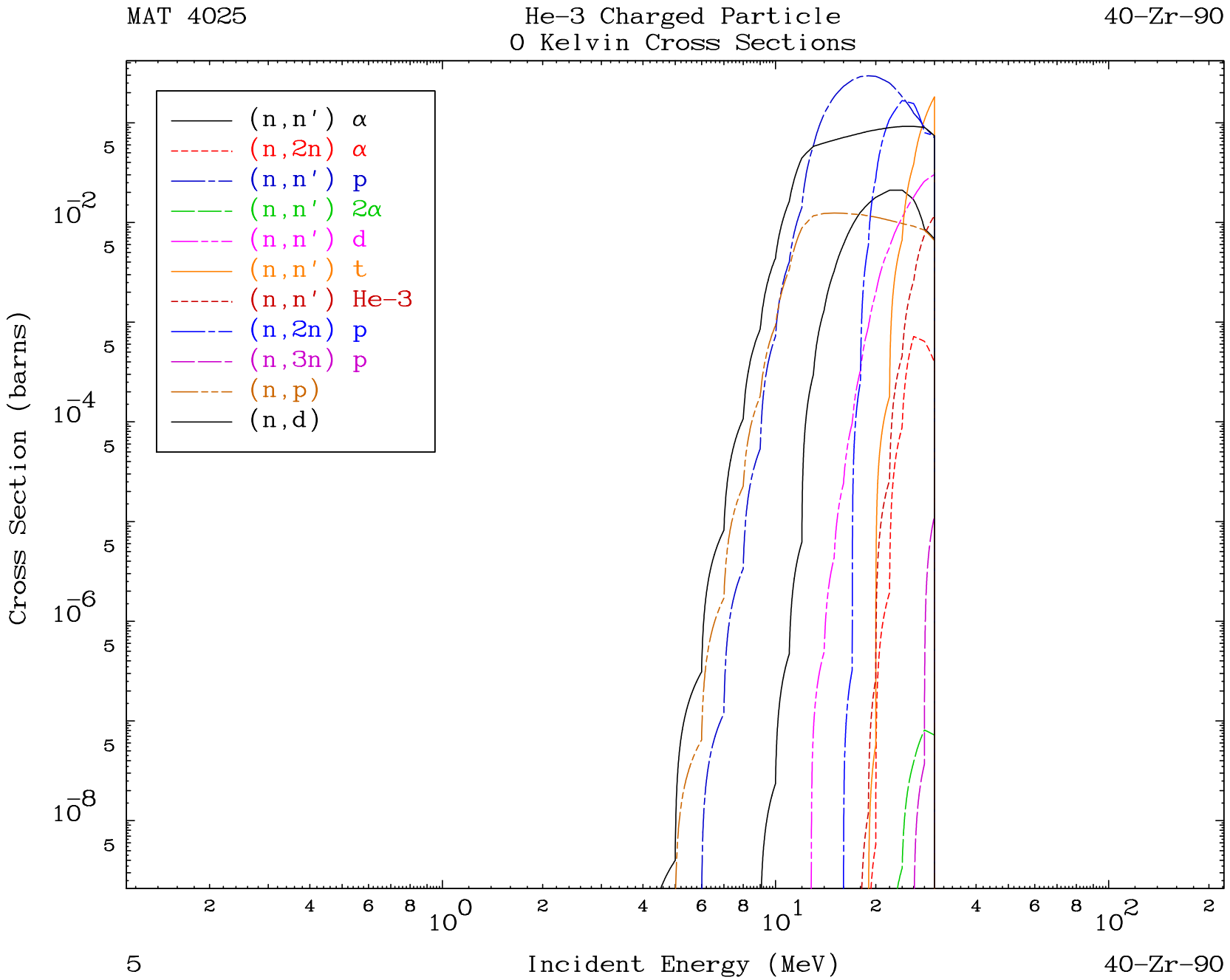
Press Mouse Button to Start

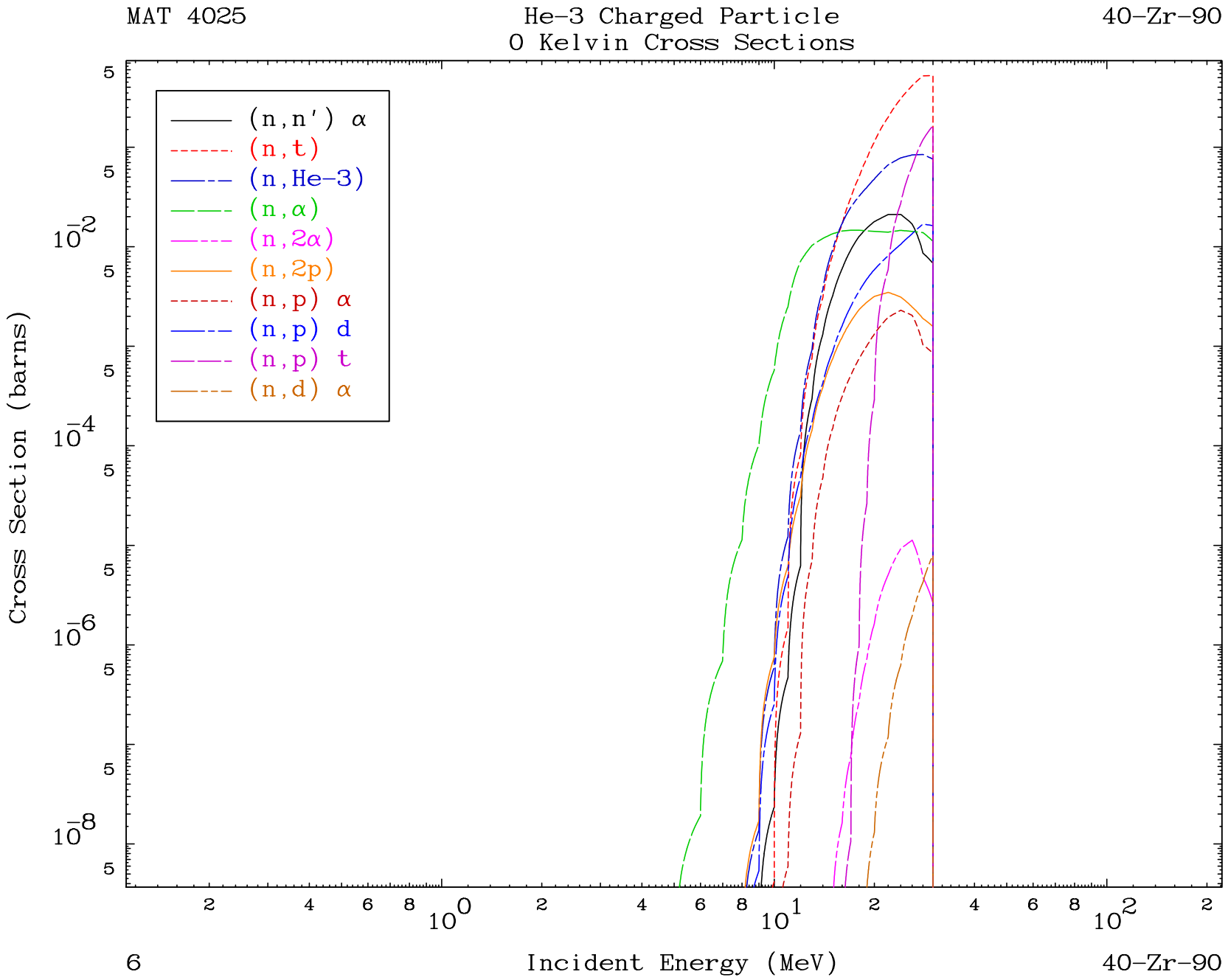

MAT 4025
He-3 Major
40-Zr-90
0 Kelvin Cross Sections
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
1
40-Zr-90

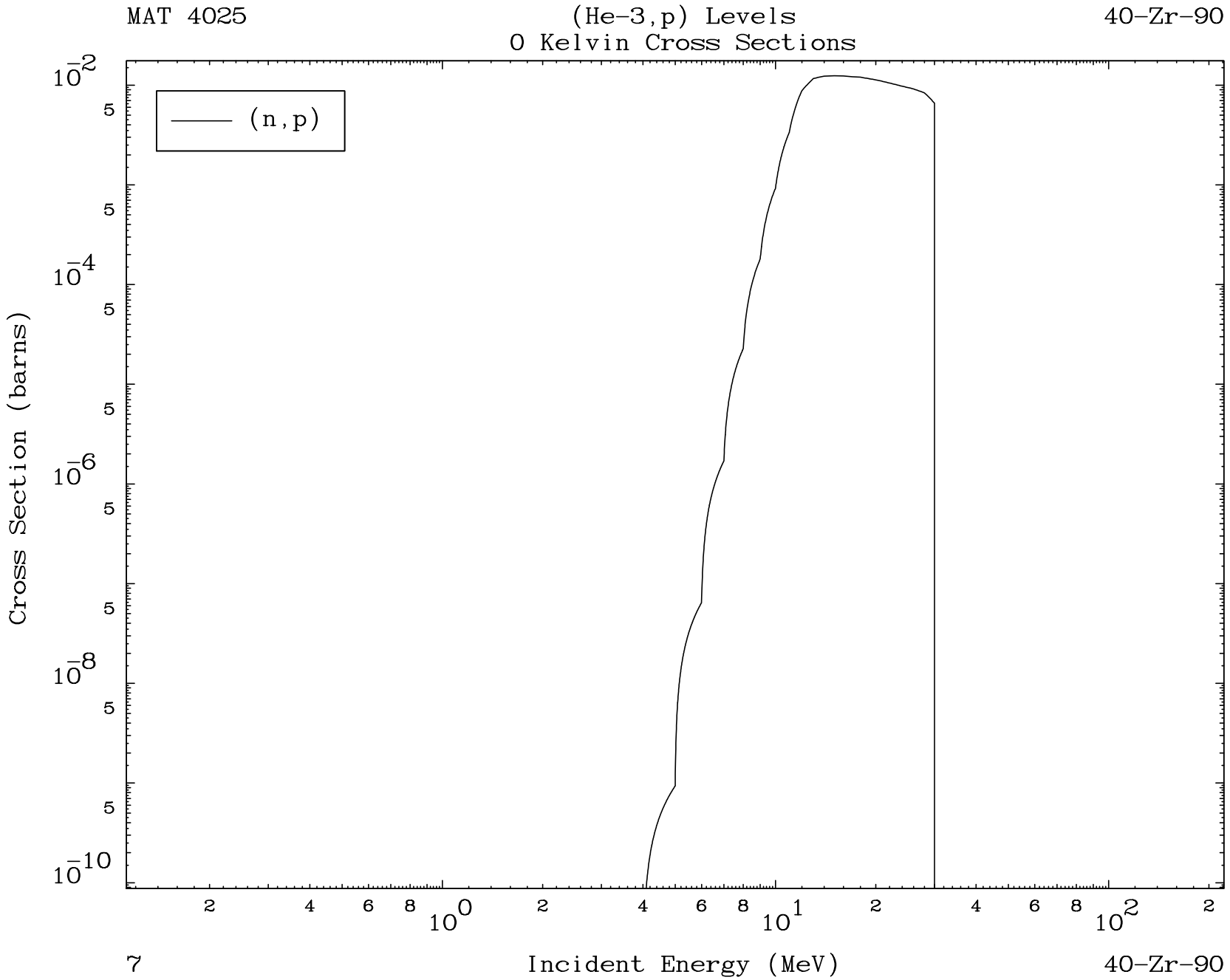

MAT 4025
He-3 Neutron Absorption
0 Kelvin Cross Sections
40-Zr-90
(n,2n) d
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
Cross Section (barns)
Incident Energy (MeV)
40-Zr-90

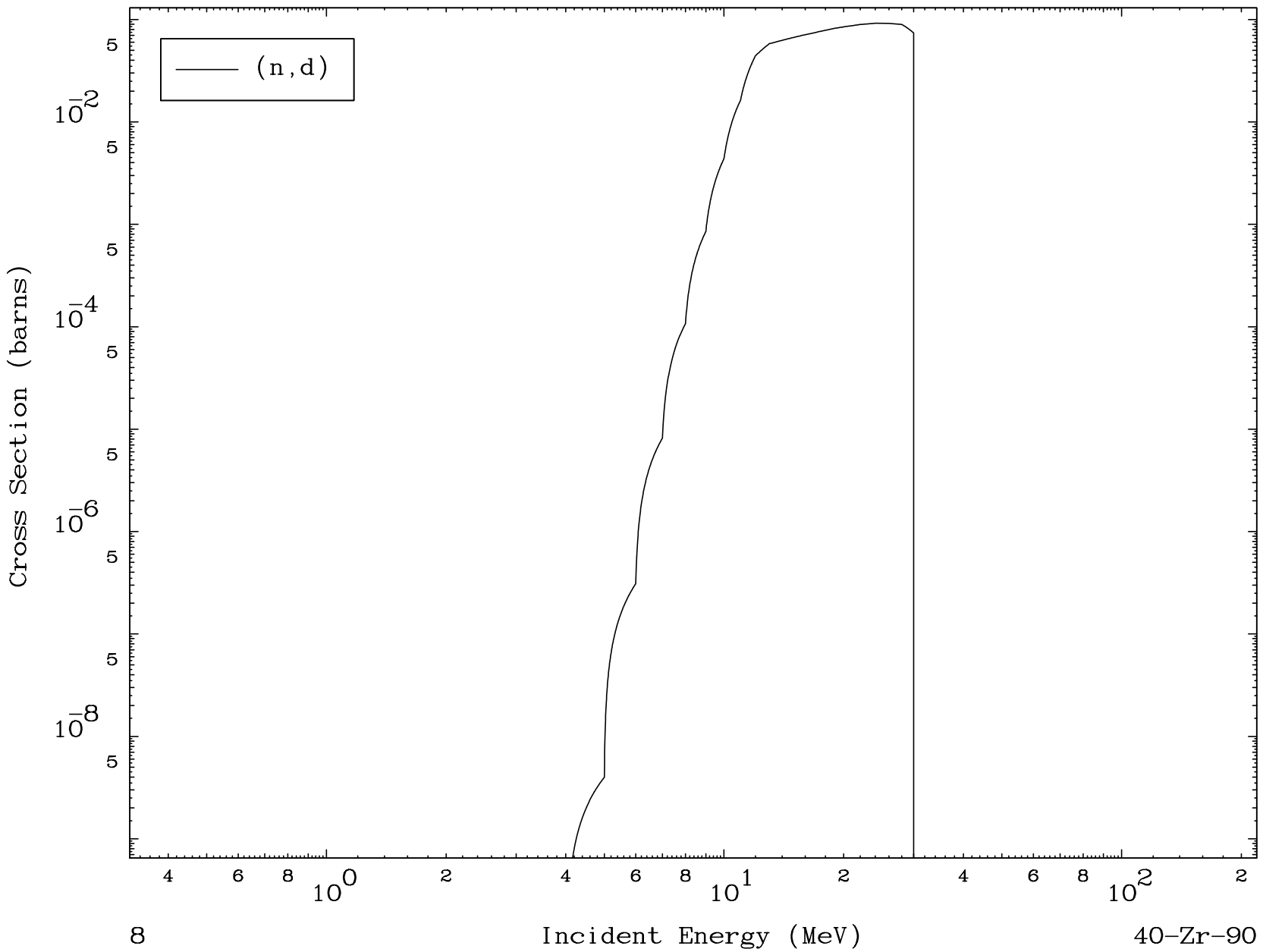

MAT 4025
He-3 Neutron Absorption
0 Kelvin Cross Sections
40-Zr-90
(n,n') He-3
(n,2n) p
(n,3n) p
(n,2n) p
(n,n') p α
(n,γ)
(n,p)
(n,d)
(n,t)
Cross Section (barns)
Incident Energy (MeV)
3
40-Zr-90

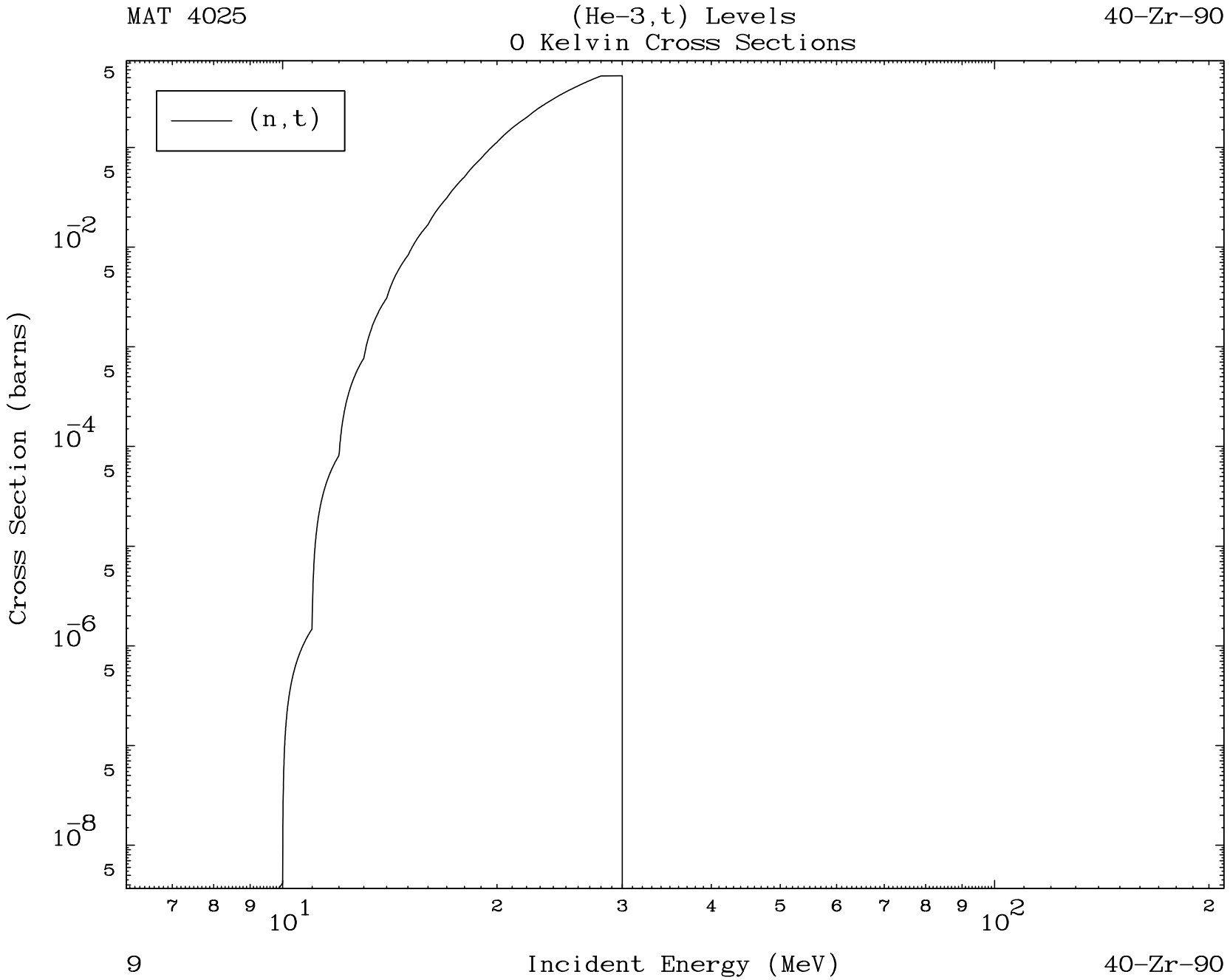

MAT 4025
He-3 Neutron Absorption
0 Kelvin Cross Sections
40-Zr-90
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
4
40-Zr-90

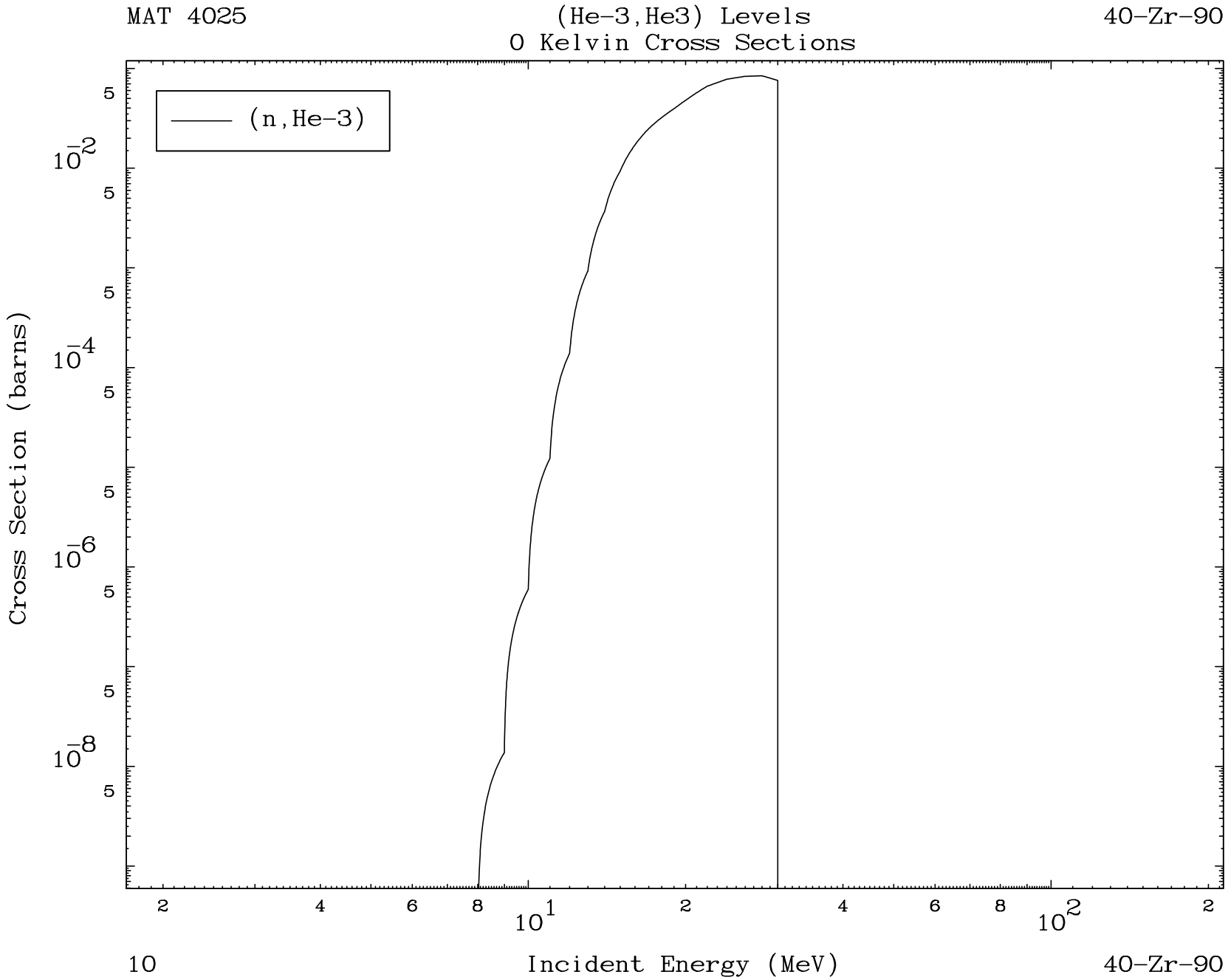

MAT 4025
He-3 Charged Particle
0 Kelvin Cross Sections
40-Zr-90
(n,n') α
(n,2n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
(n,3n) p
(n,p)
(n,d)
Cross Section (barns)
Incident Energy (MeV)
5
40-Zr-90

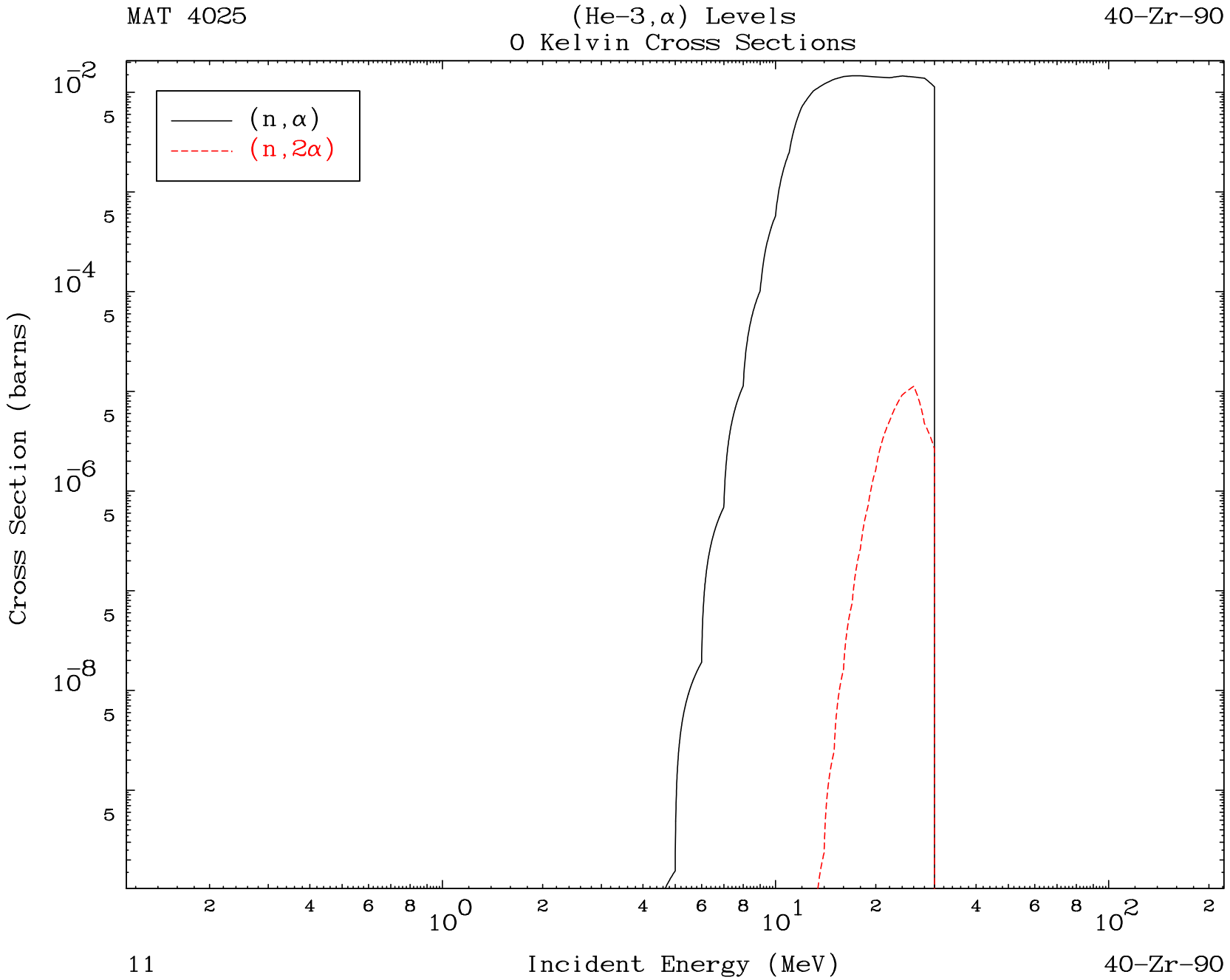

MAT 4025
He-3 Charged Particle
0 Kelvin Cross Sections
40-Zr-90
(n,n') α
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
6
40-Zr-90

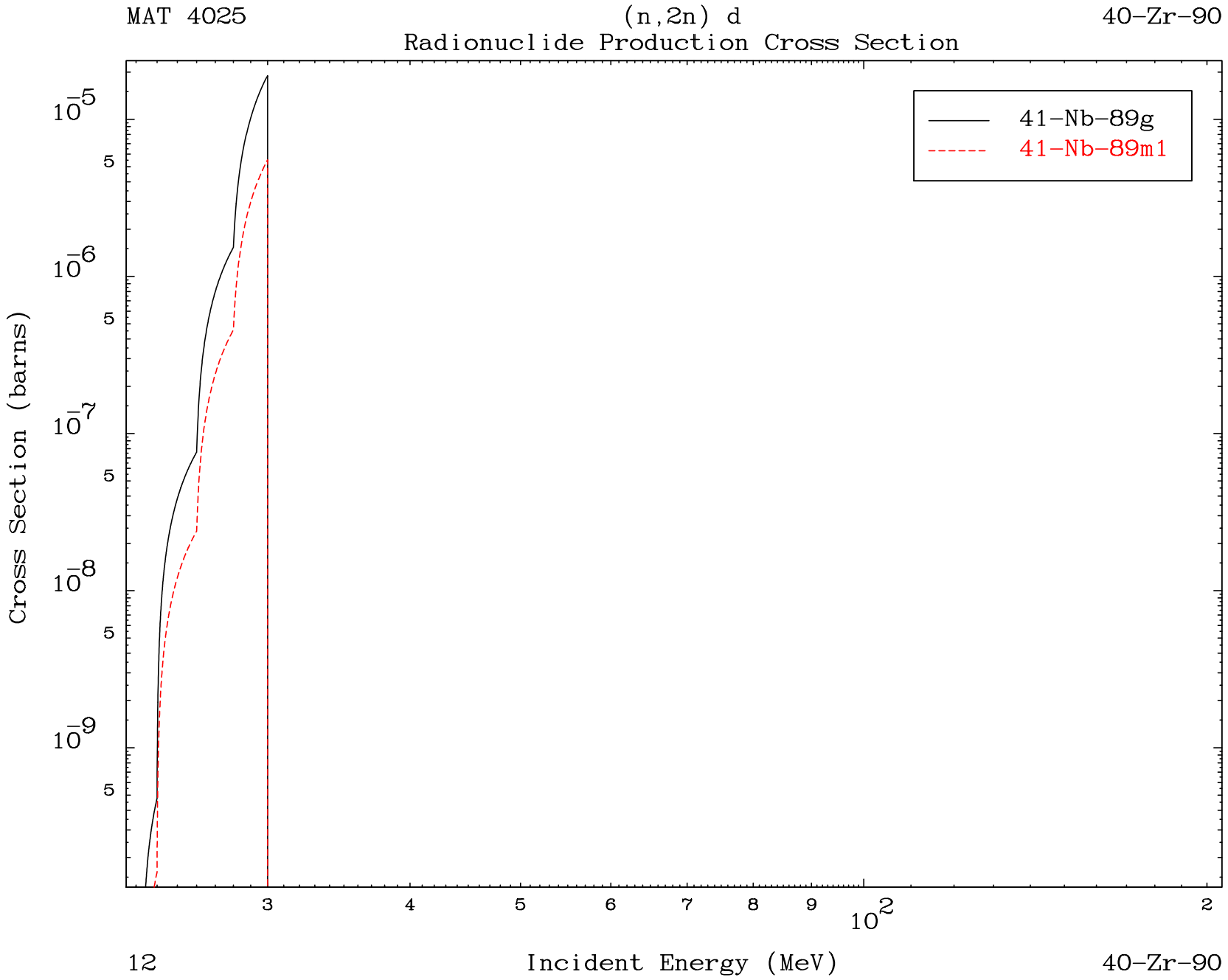

MAT 4025
(He-3,p) Levels
40-Zr-90
0 Kelvin Cross Sections
(n,p)
Cross Section (barns)
Incident Energy (MeV)
7
40-Zr-90

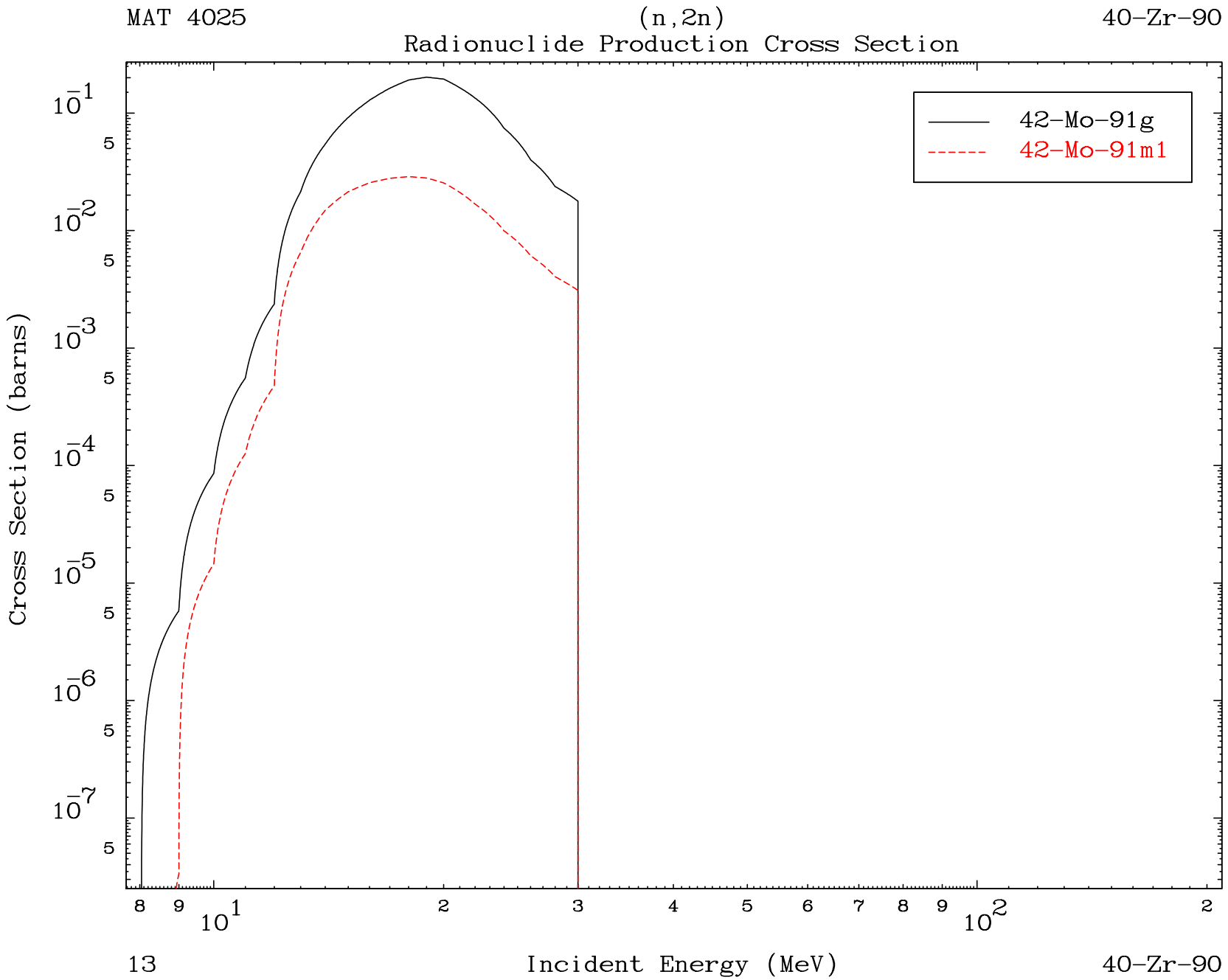

0 Kelvin Cross Sections
(n,d)
Cross Section (barns)
10-2
10-4
10-6
10-8
100
101
102
Incident Energy (MeV)

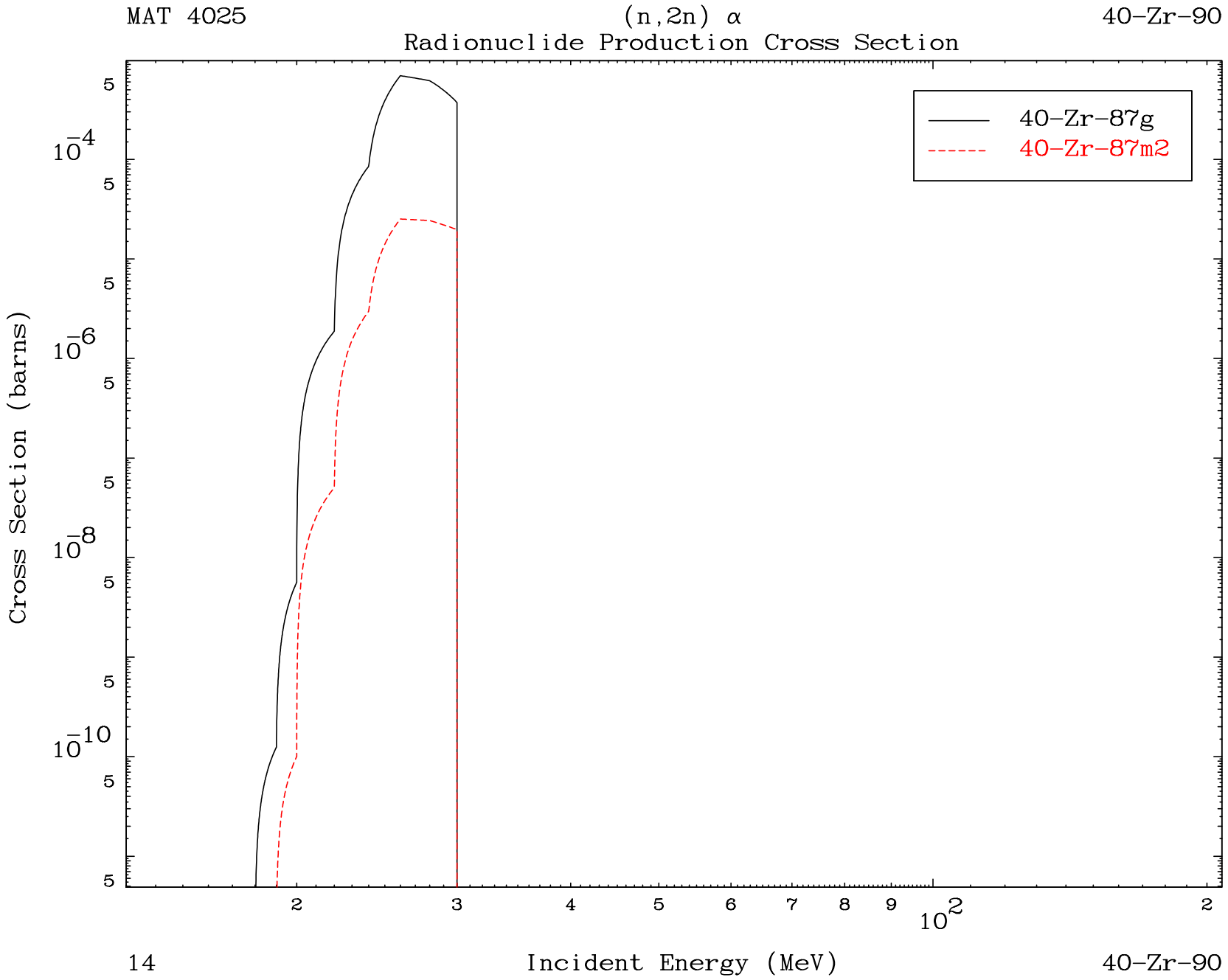

MAT 4025
(He-3,t) Levels
40-Zr-90
0 Kelvin Cross Sections
(n,t)
Cross Section (barns)
Incident Energy (MeV)
9
40-Zr-90

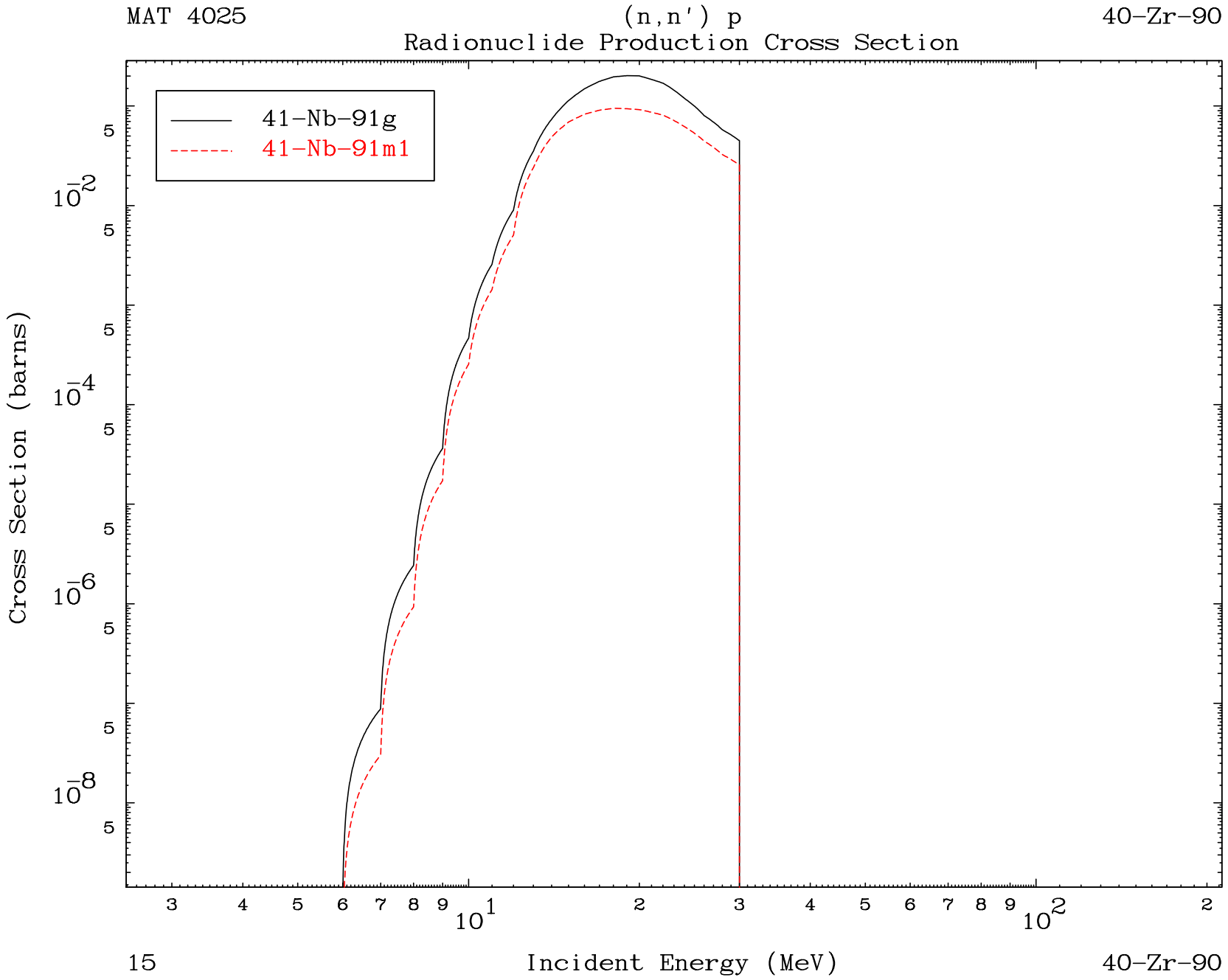

MAT 4025
(He-3,He3) Levels
40-Zr-90
0 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
10^-2
10^-4
10^-6
10^-8
5
10^1
10^2
2
4
6
8
10
Incident Energy (MeV)
40-Zr-90

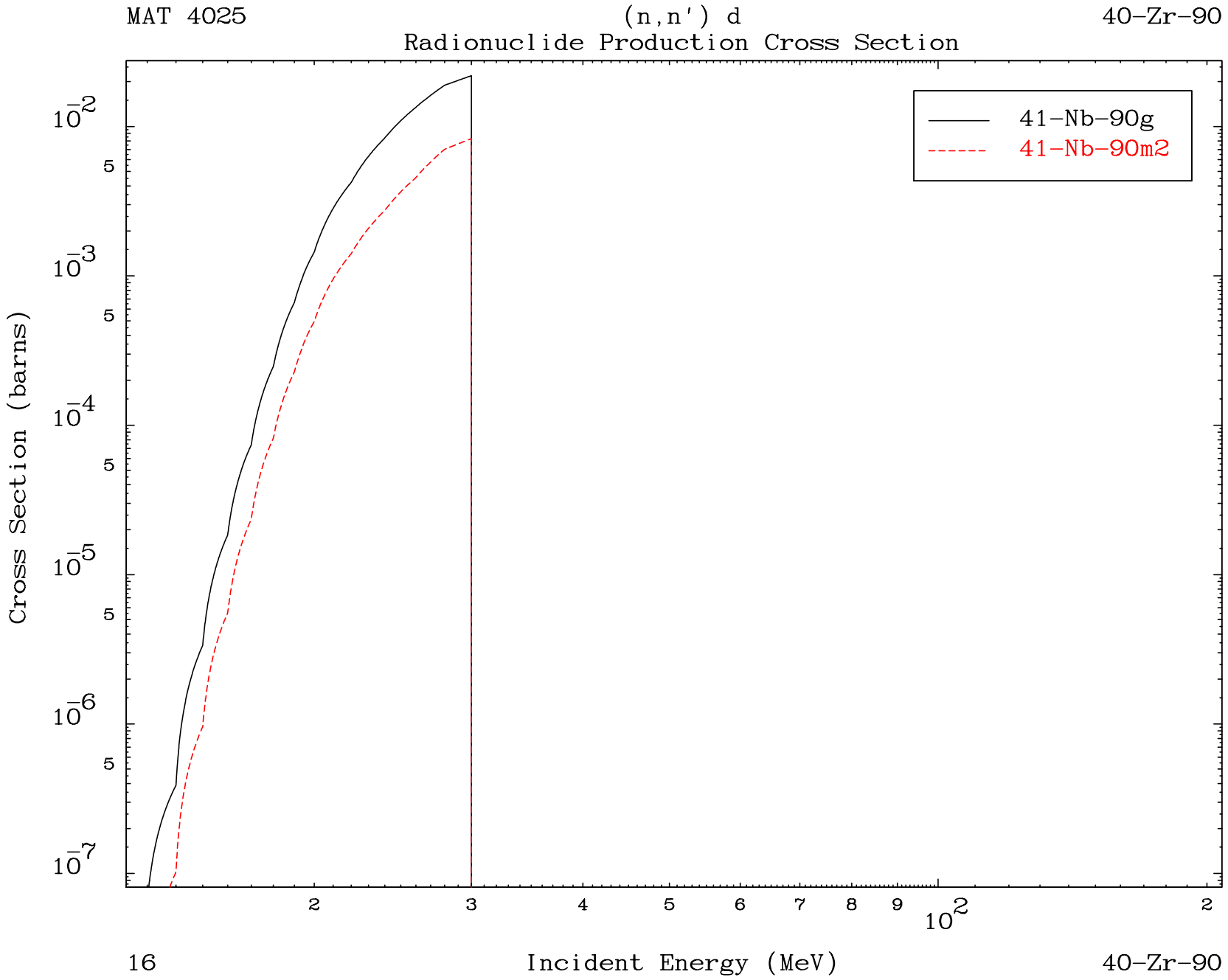

MAT 4025
(He-3,α) Levels
40-Zr-90
0 Kelvin Cross Sections
(n,α)
(n,2α)
Cross Section (barns)
Incident Energy (MeV)
11
40-Zr-90

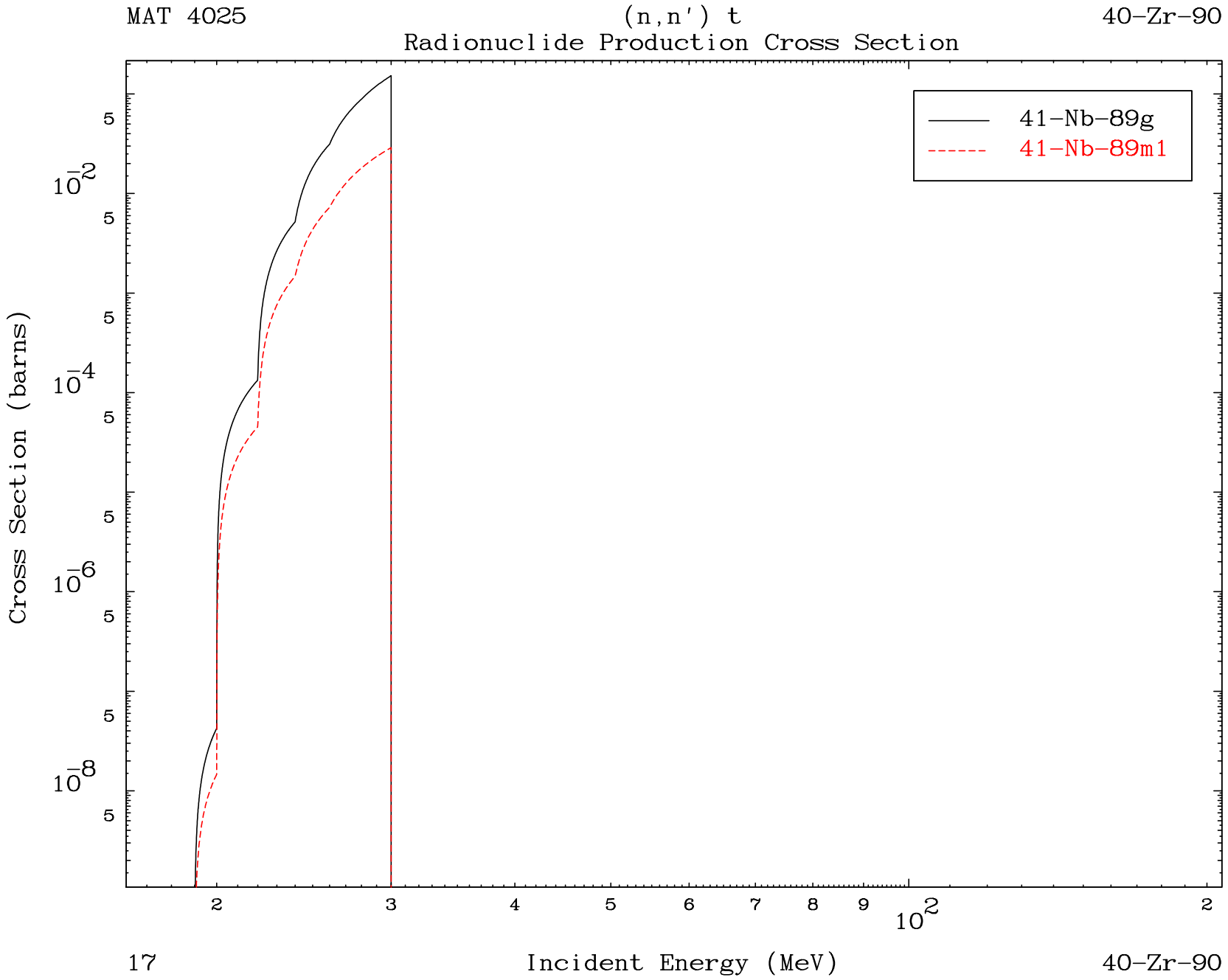

MAT 4025
(n,2n) d
40-Zr-90
Radionuclide Production Cross Section
41-Nb-89g
41-Nb-89m1
Cross Section (barns)
10-5
10-6
10-7
10-8
10-9
3
4
5
6
7
8
9
10 2
2
12
Incident Energy (MeV)
40-Zr-90

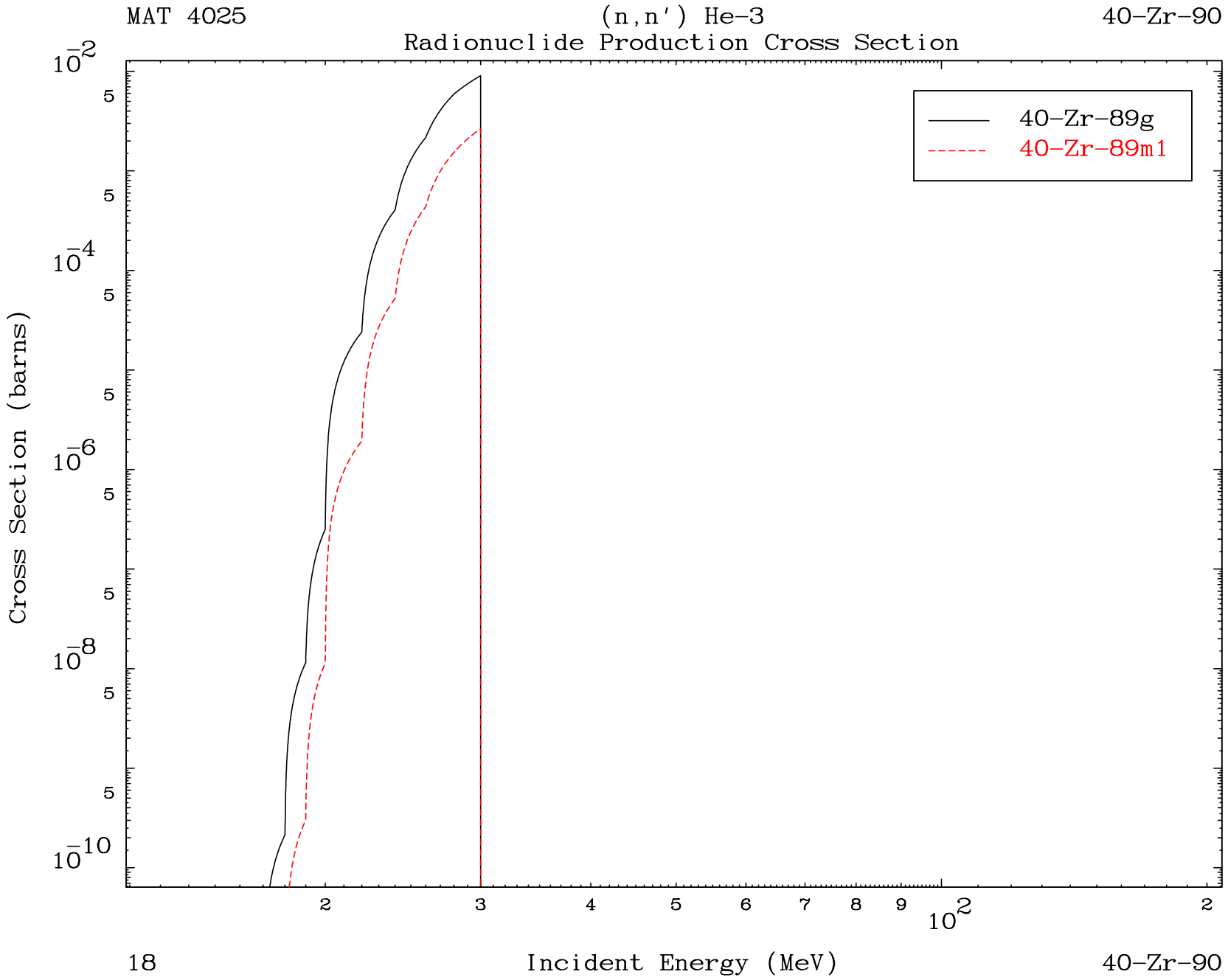

MAT 4025
(n,2n)
40-Zr-90
Radionuclide Production Cross Section
42-Mo-91g
42-Mo-91m1
Cross Section (barns)
Incident Energy (MeV)
13
40-Zr-90

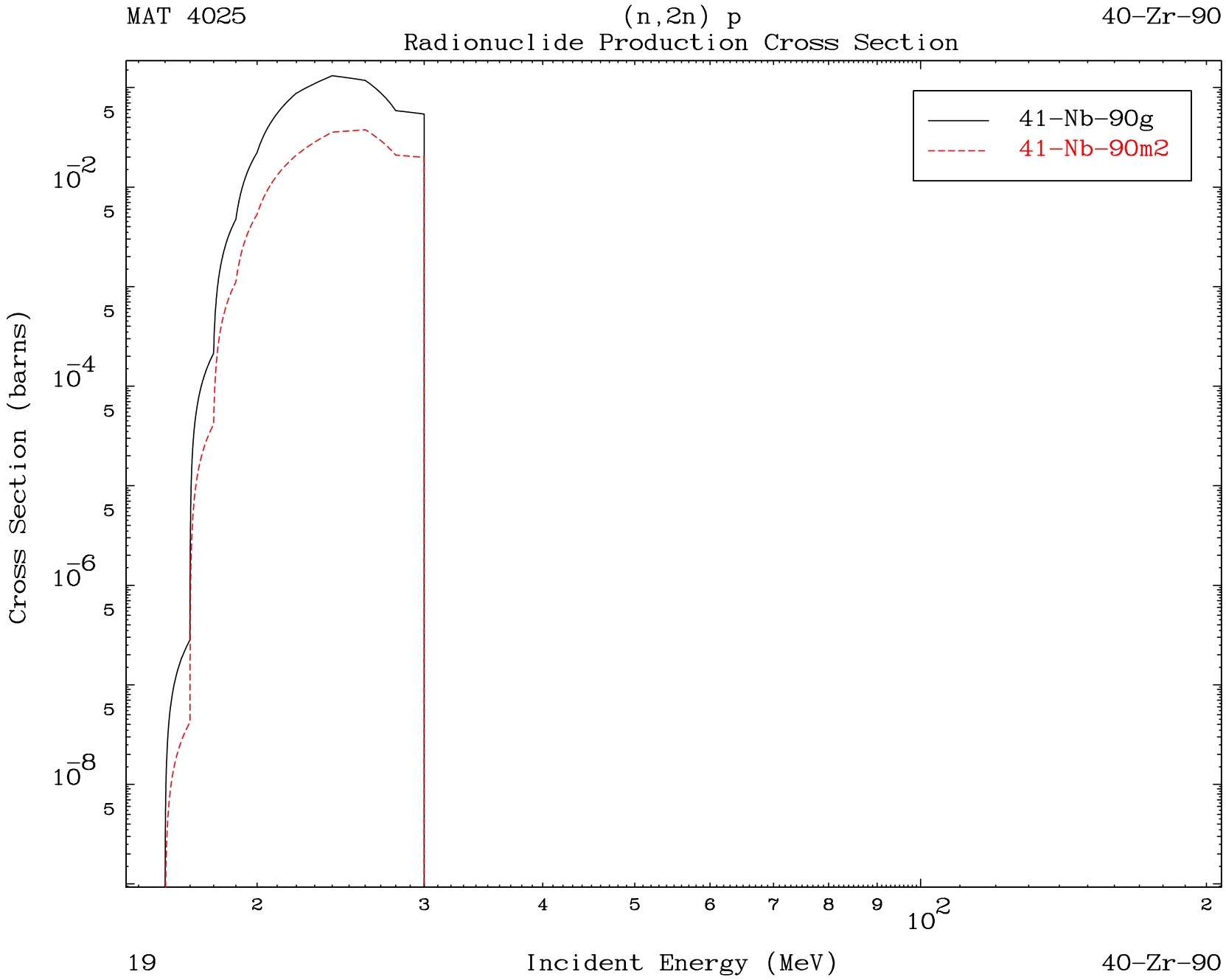

MAT 4025
(n,2n) α
40-Zr-90
Radionuclide Production Cross Section
40-Zr-87g
40-Zr-87m2
Cross Section (barns)
10-4
10-6
10-8
10-10
Incident Energy (MeV)
14
40-Zr-90

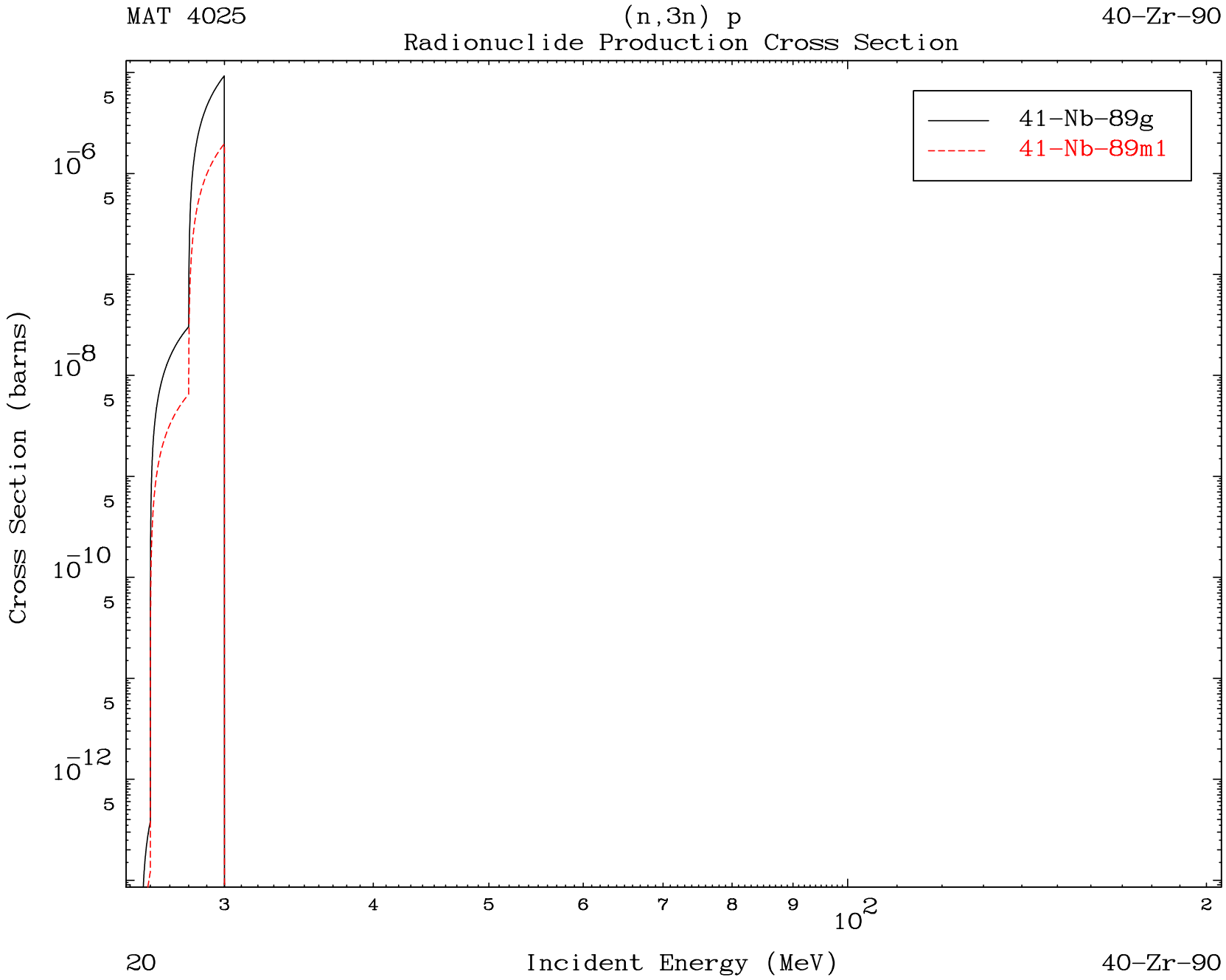

MAT 4025
(n,n') p
40-Zr-90
Radionuclide Production Cross Section
41-Nb-91g
41-Nb-91m1
Cross Section (barns)
10-2
10-4
10-6
10-8
3 4 5 6 7 8 9 10 1 2 3 4 5 6 7 8 9 10 2 2
15
Incident Energy (MeV)
40-Zr-90

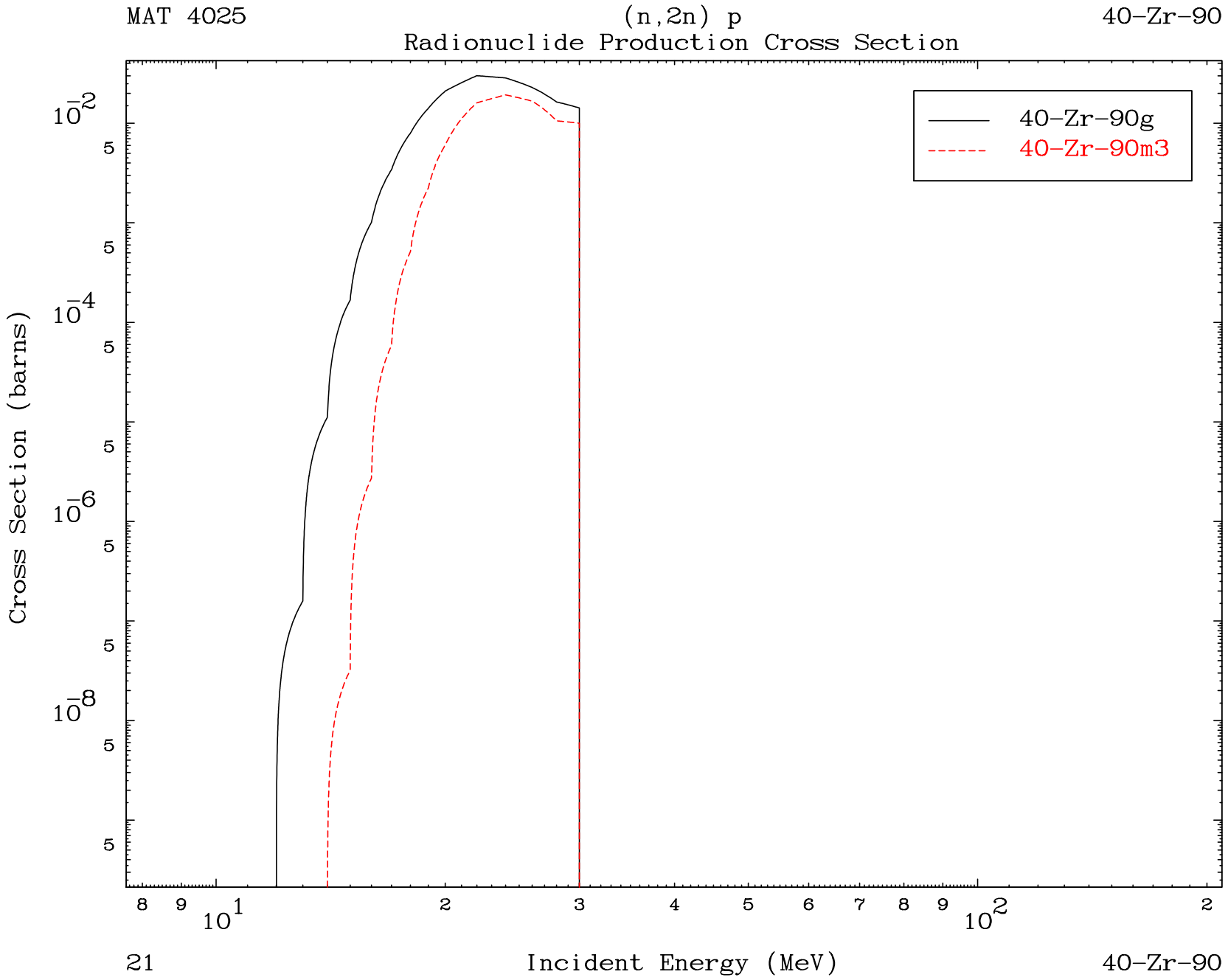

MAT 4025
(n,n') d
40-Zr-90
Radionuclide Production Cross Section
41-Nb-90g
41-Nb-90m2
Cross Section (barns)
10-2
10-3
10-4
10-5
10-6
10-7
2
3
4
5
6
7
8
9
10 2
2
16
Incident Energy (MeV)
40-Zr-90

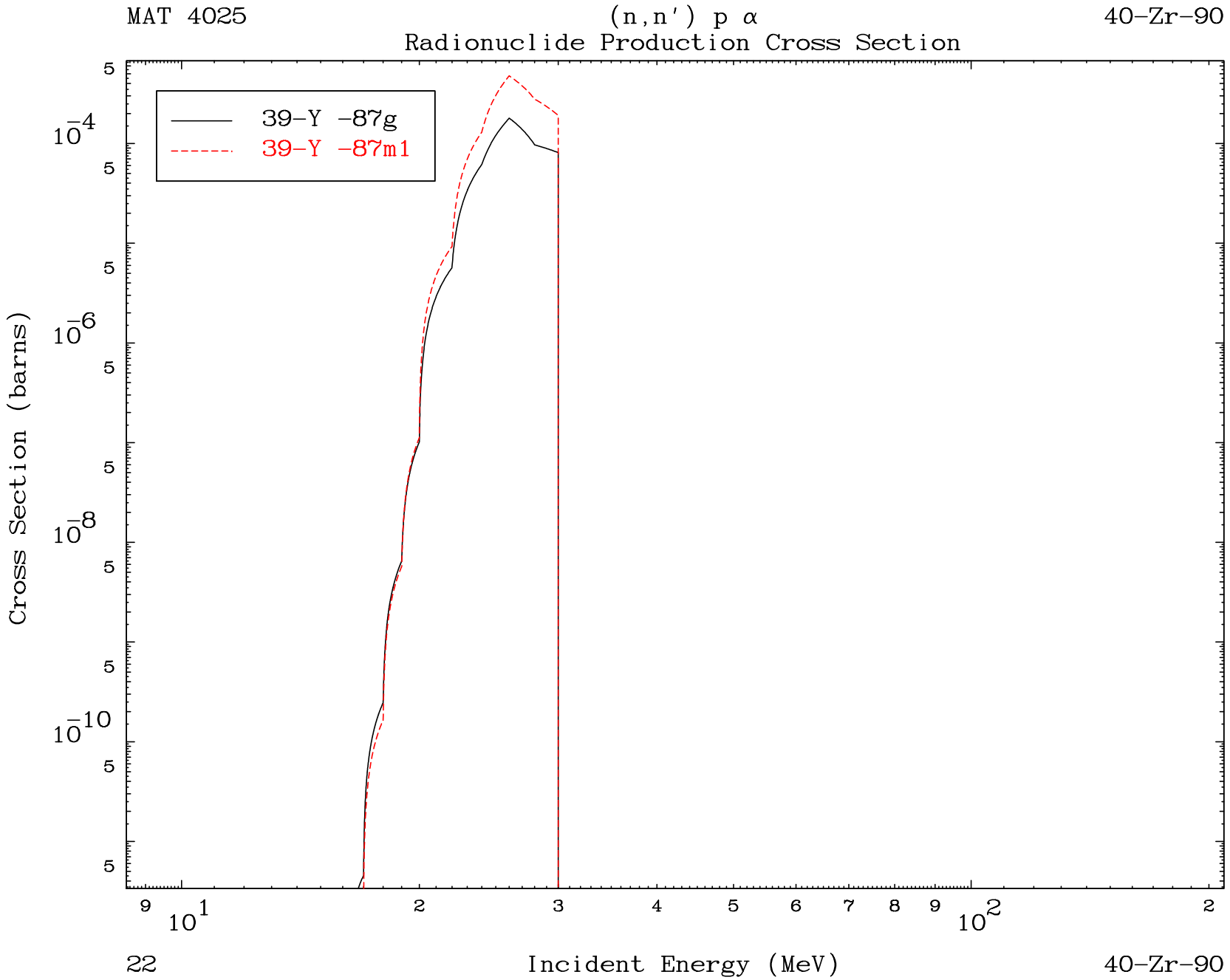

MAT 4025
(n,n') t
40-Zr-90
Radionuclide Production Cross Section
41-Nb-89g
41-Nb-89m1
Cross Section (barns)
10-2
10-4
10-6
10-8
2
3
4
5
6
7
8
9
10+2
2
17
Incident Energy (MeV)
40-Zr-90

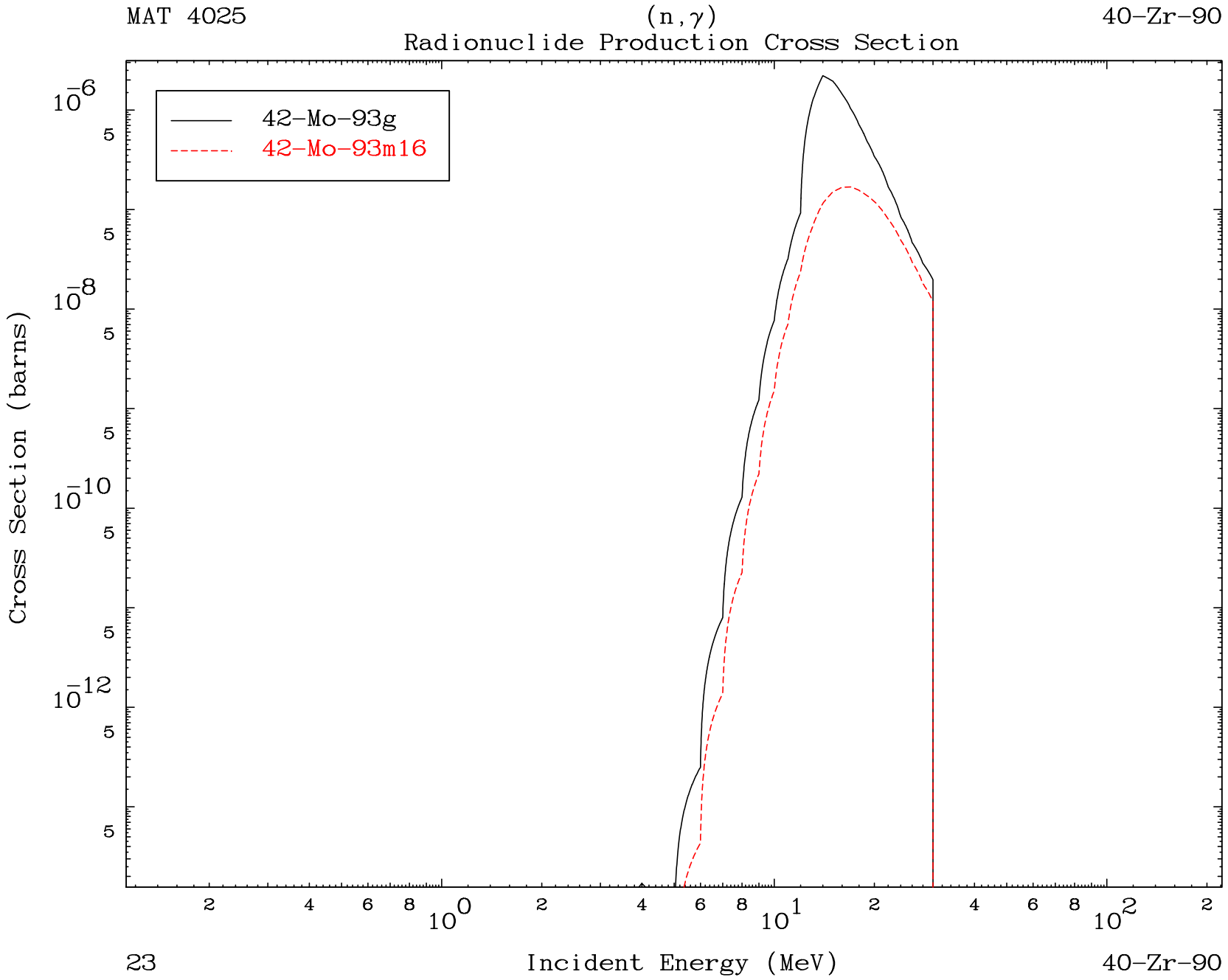

MAT 4025
(n,n') He-3
40-Zr-90
Radionuclide Production Cross Section
Cross Section (barns)
10^-2
10^-4
10^-6
10^-8
10^-10
40-Zr-89g
40-Zr-89m1
2
3
4
5
6
7
8
9
10^2
2
18
Incident Energy (MeV)
40-Zr-90

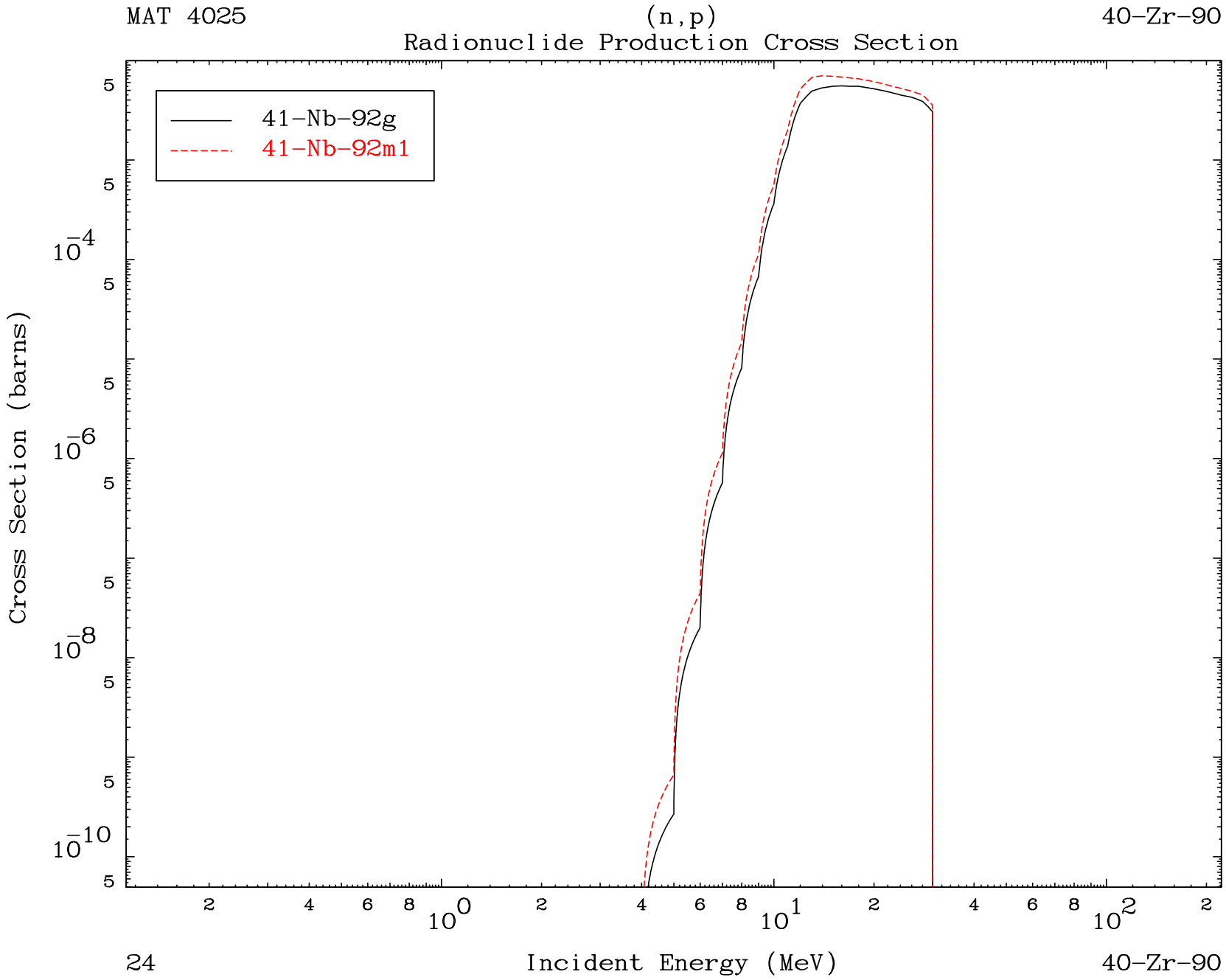

MAT 4025
(n,2n) p
40-Zr-90
Radionuclide Production Cross Section
41-Nb-90g
41-Nb-90m2
Cross Section (barns)
10-2
10-4
10-6
10-8
5
2
3
4
5
6
7
8
9
10 2
2
19
Incident Energy (MeV)
40-Zr-90

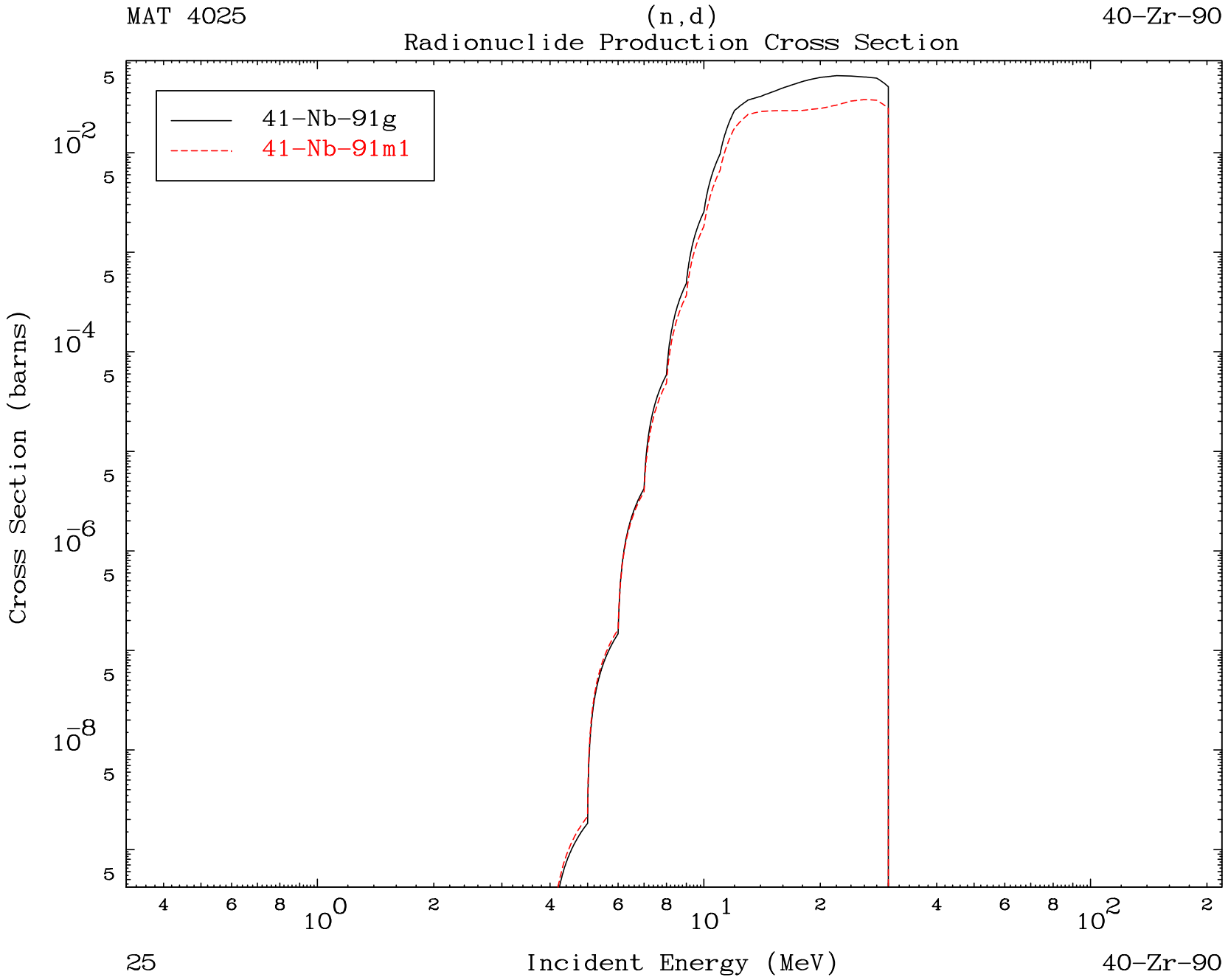

MAT 4025
(n,3n) p
40-Zr-90
Radionuclide Production Cross Section
41-Nb-89g
41-Nb-89m1
Cross Section (barns)
10-6
10-8
10-10
10-12
5
3
4
5
6
7
8
9
10 2
2
20
Incident Energy (MeV)
40-Zr-90

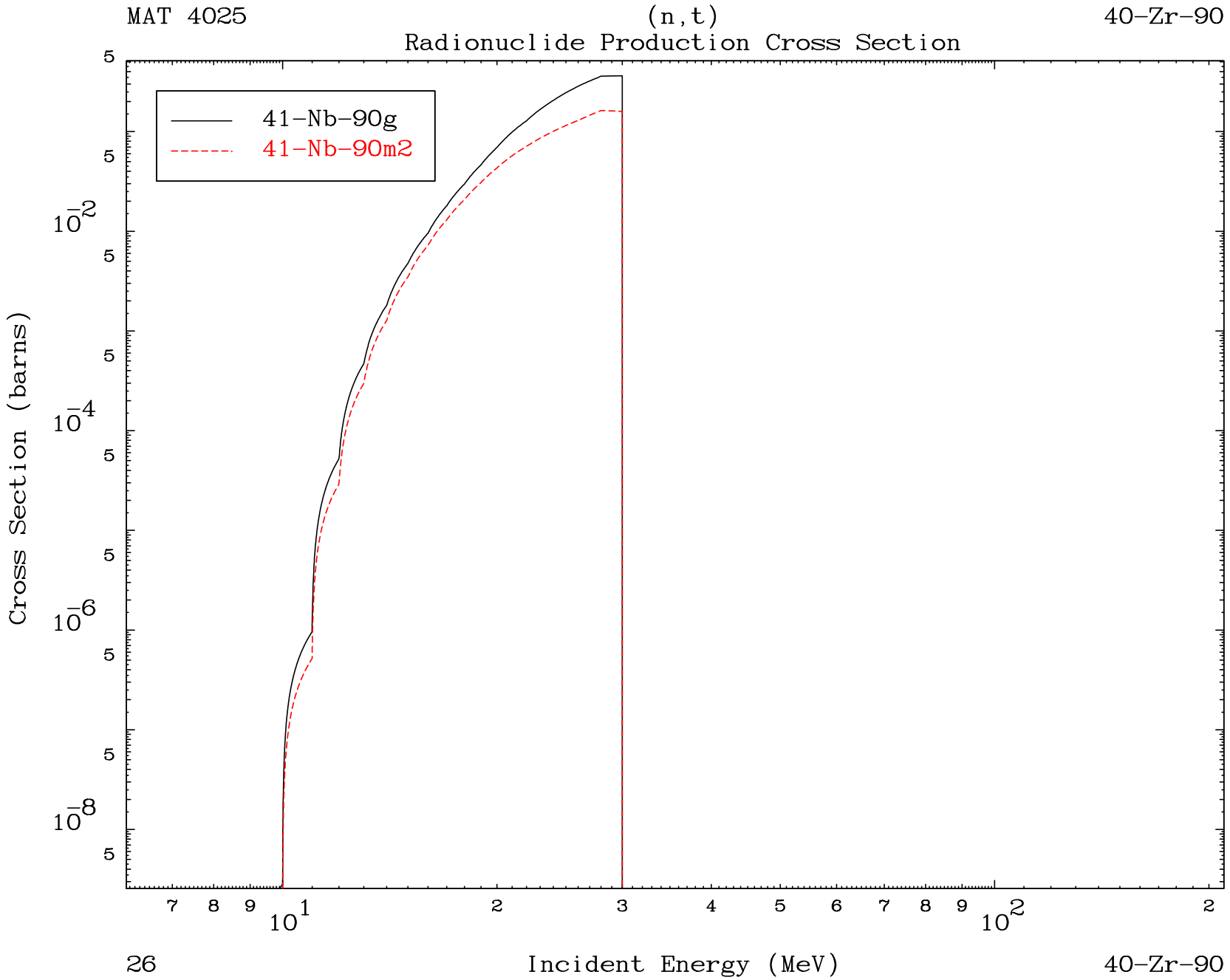

MAT 4025
(n,2n) p
40-Zr-90
Radionuclide Production Cross Section
40-Zr-90g
40-Zr-90m3
Cross Section (barns)
Incident Energy (MeV)
21
40-Zr-90

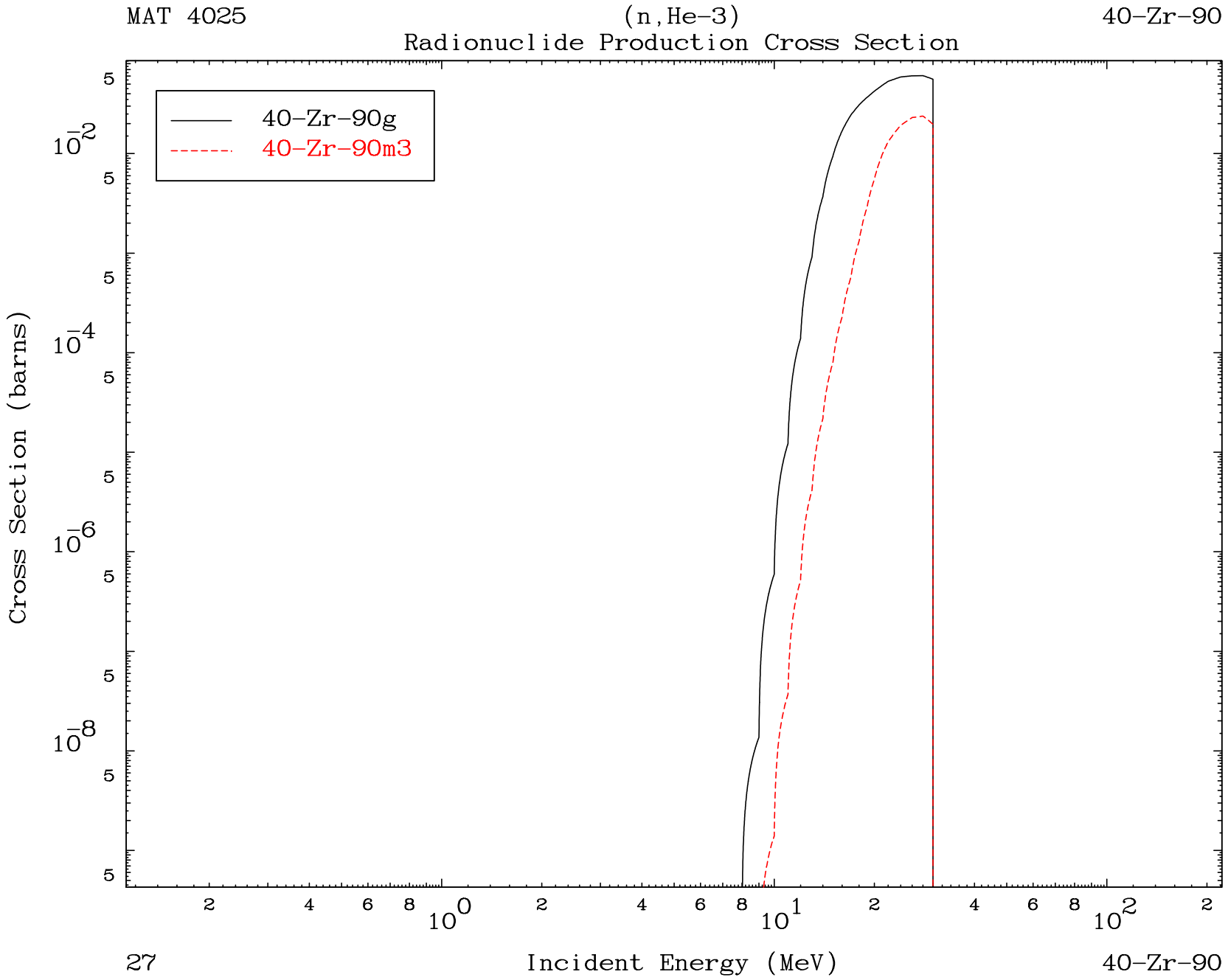

MAT 4025
(n,n') p α
40-Zr-90
Radionuclide Production Cross Section
39-Y -87g
39-Y -87m1
Cross Section (barns)
10-4
10-6
10-8
10-10
Incident Energy (MeV)
22
40-Zr-90

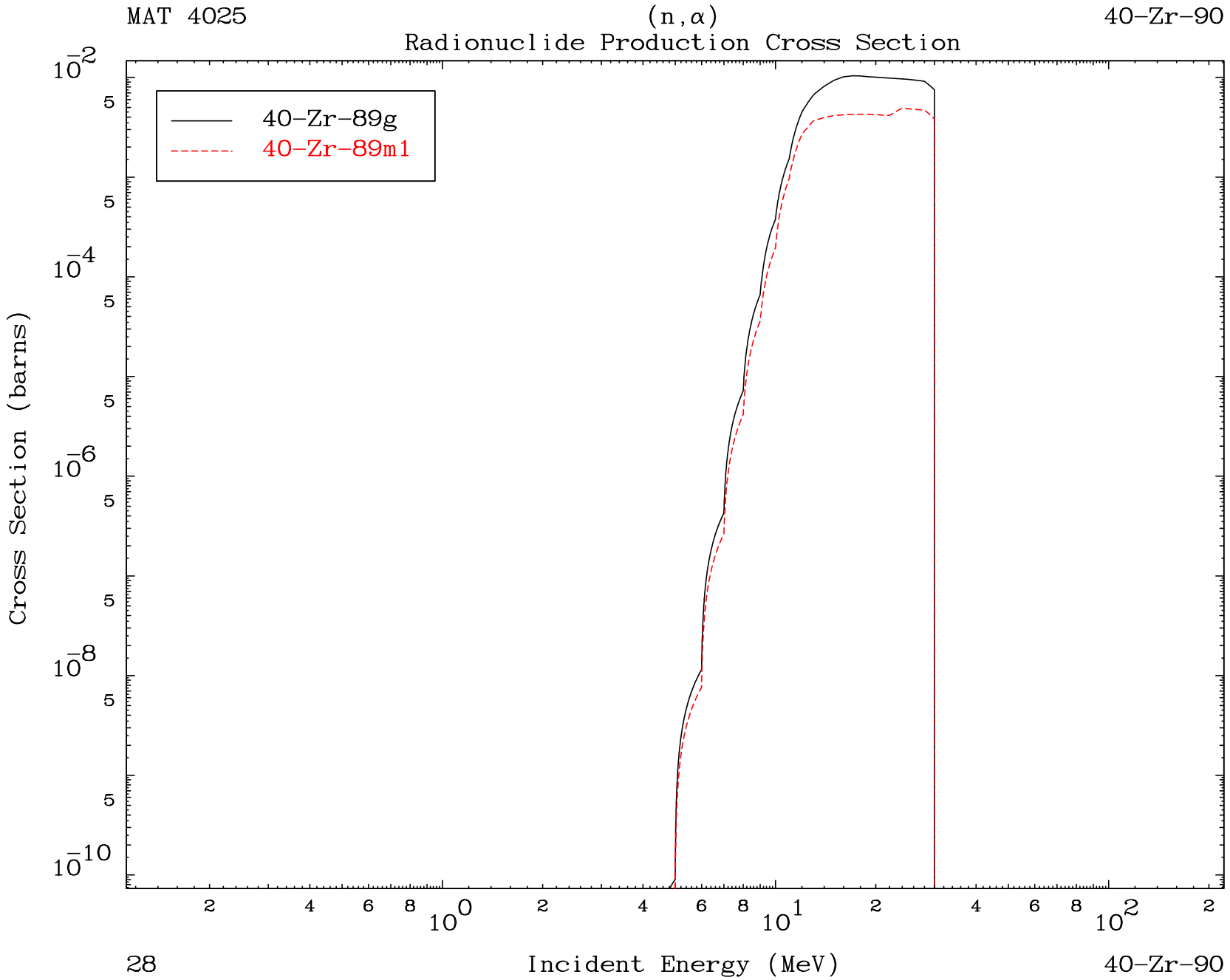

MAT 4025
(n,γ)
40-Zr-90
Radionuclide Production Cross Section
42-Mo-93g
42-Mo-93m16
Cross Section (barns)
10-6
10-8
10-10
10-12
5
100
101
102
2
4
6
8
Incident Energy (MeV)
23
40-Zr-90

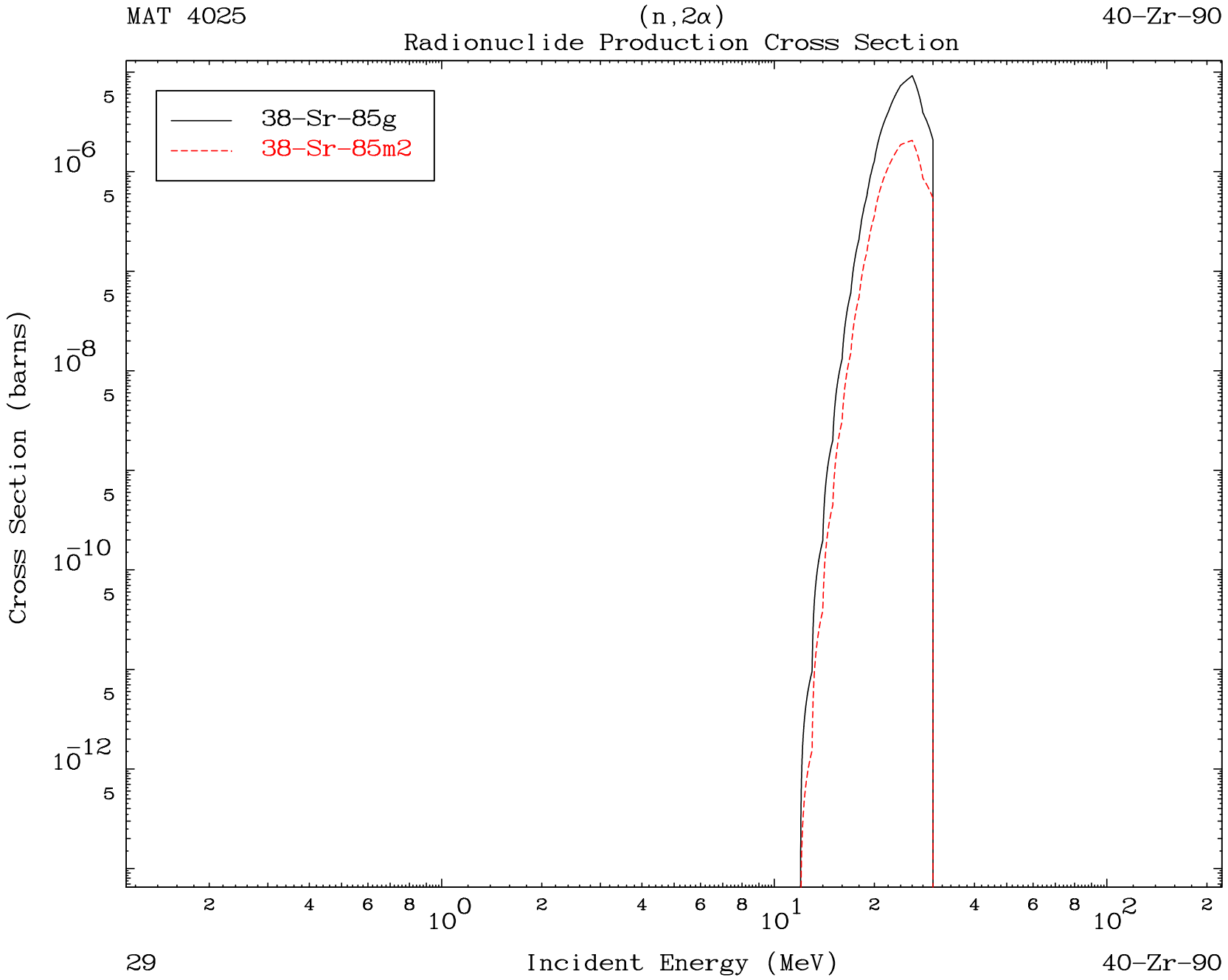

MAT 4025
(n,p)
40-Zr-90
Radionuclide Production Cross Section
41-Nb-92g
41-Nb-92m1
Cross Section (barns)
Incident Energy (MeV)
24
40-Zr-90

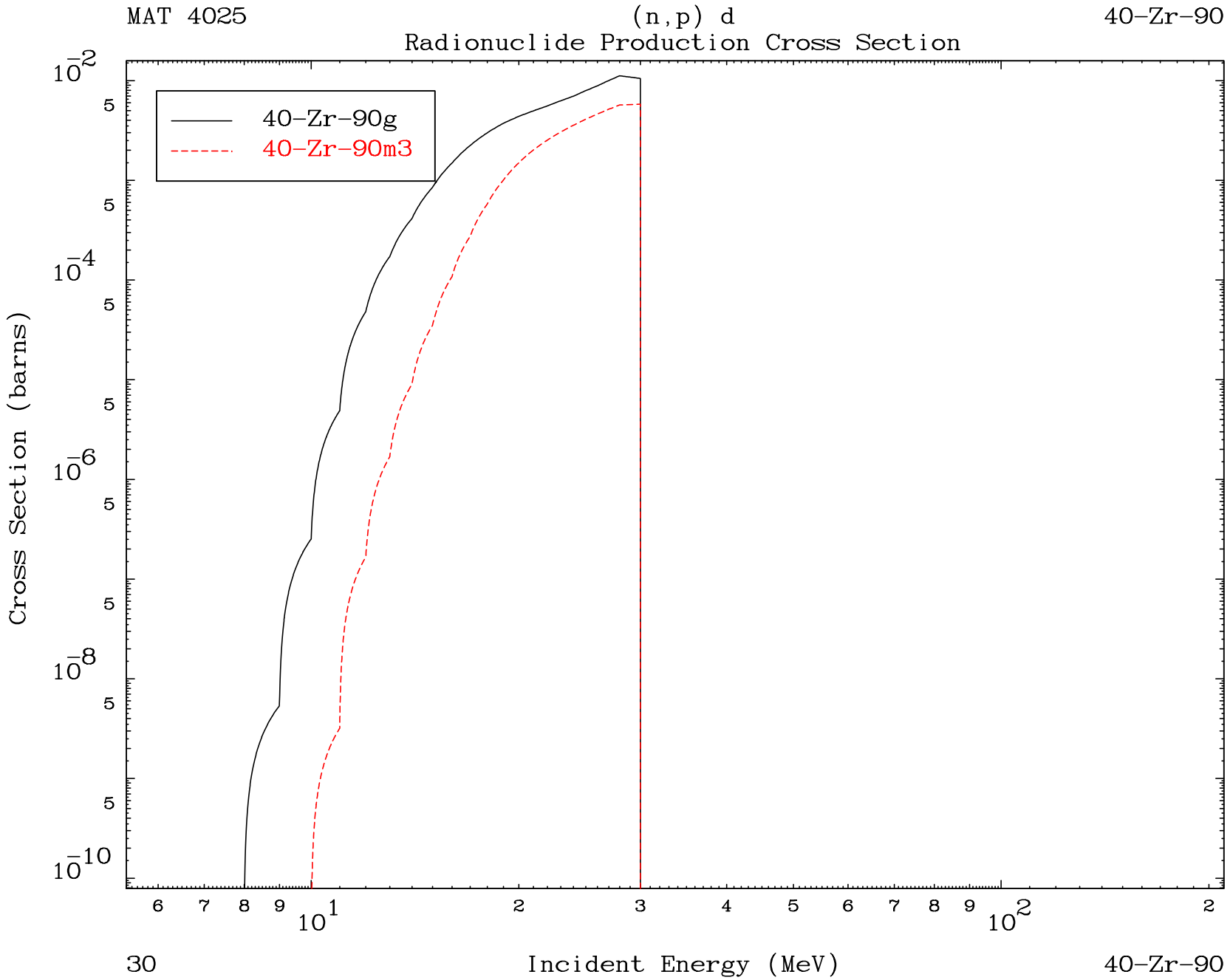

MAT 4025
(n,d)
40-Zr-90
Radionuclide Production Cross Section
41-Nb-91g
41-Nb-91m1
Cross Section (barns)
Incident Energy (MeV)
25
40-Zr-90

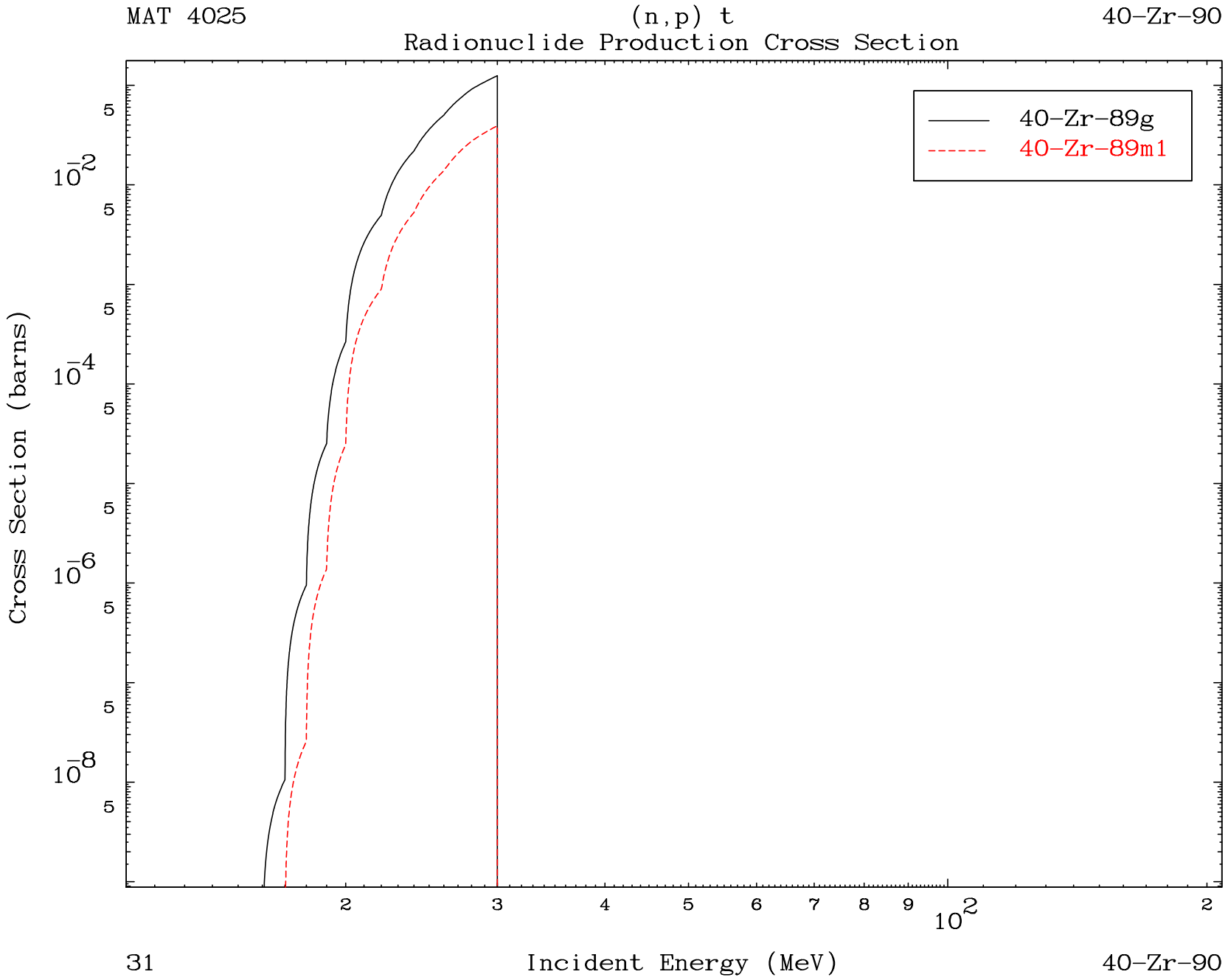

MAT 4025
(n,t)
40-Zr-90
Radionuclide Production Cross Section
41-Nb-90g
41-Nb-90m2
Cross Section (barns)
Incident Energy (MeV)
26
40-Zr-90

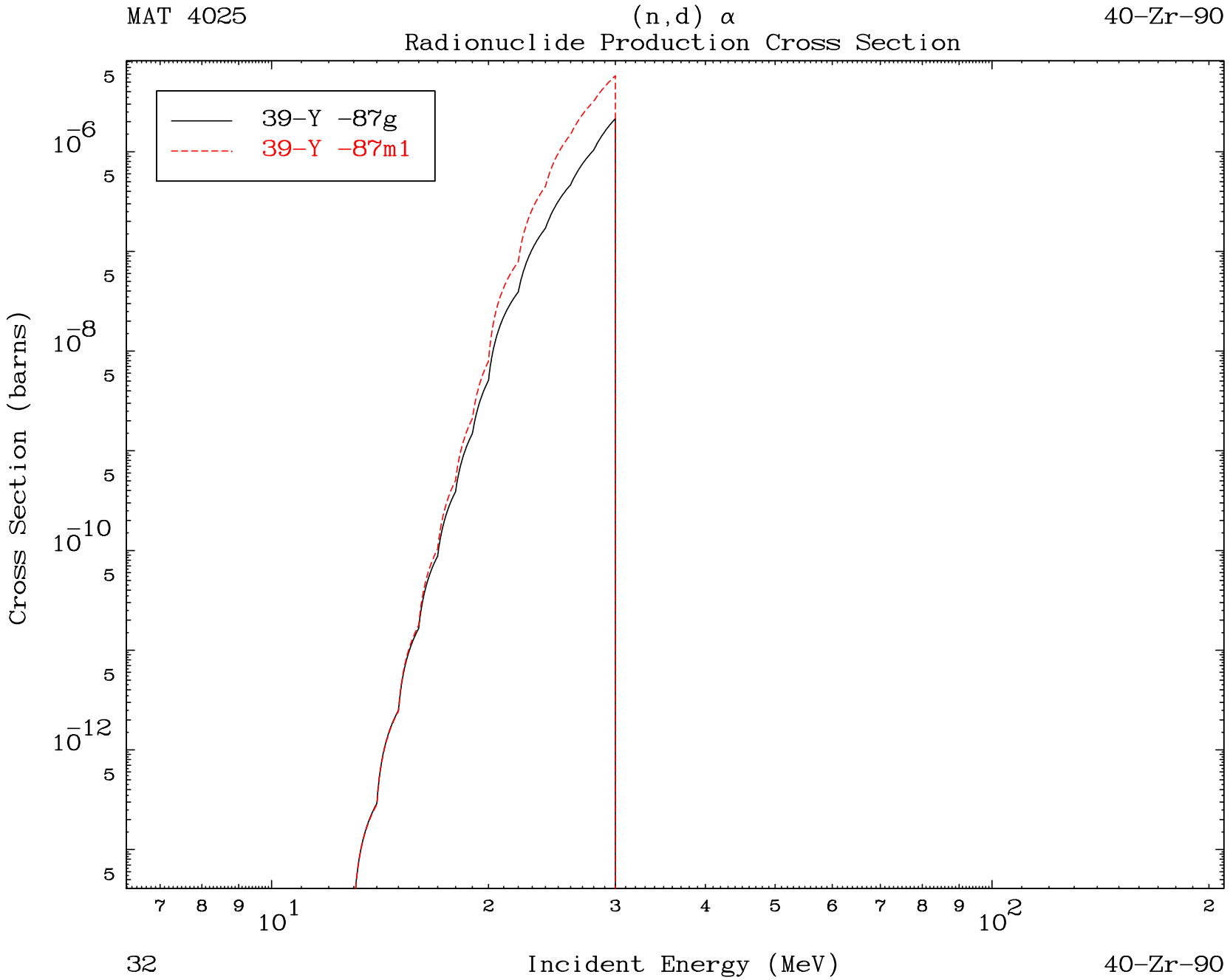

MAT 4025
(n,He-3)
40-Zr-90
Radionuclide Production Cross Section
40-Zr-90g
40-Zr-90m3
Cross Section (barns)
Incident Energy (MeV)
27
40-Zr-90


MAT 4025
(n,α)
40-Zr-90
Radionuclide Production Cross Section
40-Zr-89g
40-Zr-89m1
Cross Section (barns)
Incident Energy (MeV)
28
40-Zr-90


MAT 4025
(n,2α)
40-Zr-90
Radionuclide Production Cross Section
38-Sr-85g
38-Sr-85m2
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
10^0
10^1
10^2
Incident Energy (MeV)
29
40-Zr-90


MAT 4025
(n,p) d
40-Zr-90
Radionuclide Production Cross Section
40-Zr-90g
40-Zr-90m3
Cross Section (barns)
Incident Energy (MeV)
30
40-Zr-90


MAT 4025
(n,p) t
40-Zr-90
Radionuclide Production Cross Section
40-Zr-89g
40-Zr-89m1
Cross Section (barns)
10-2
10-4
10-6
10-8
5
2
3
4
5
6
7
8
9
10 2
2
31
Incident Energy (MeV)
40-Zr-90


MAT 4025
(n,d) α
40-Zr-90
Radionuclide Production Cross Section
39-Y -87g
39-Y -87m1
Cross Section (barns)
10-6
10-8
10-10
10-12
5
7 8 9 10 1 2 3 4 5 6 7 8 9 10 2 2
32
Incident Energy (MeV)
40-Zr-90