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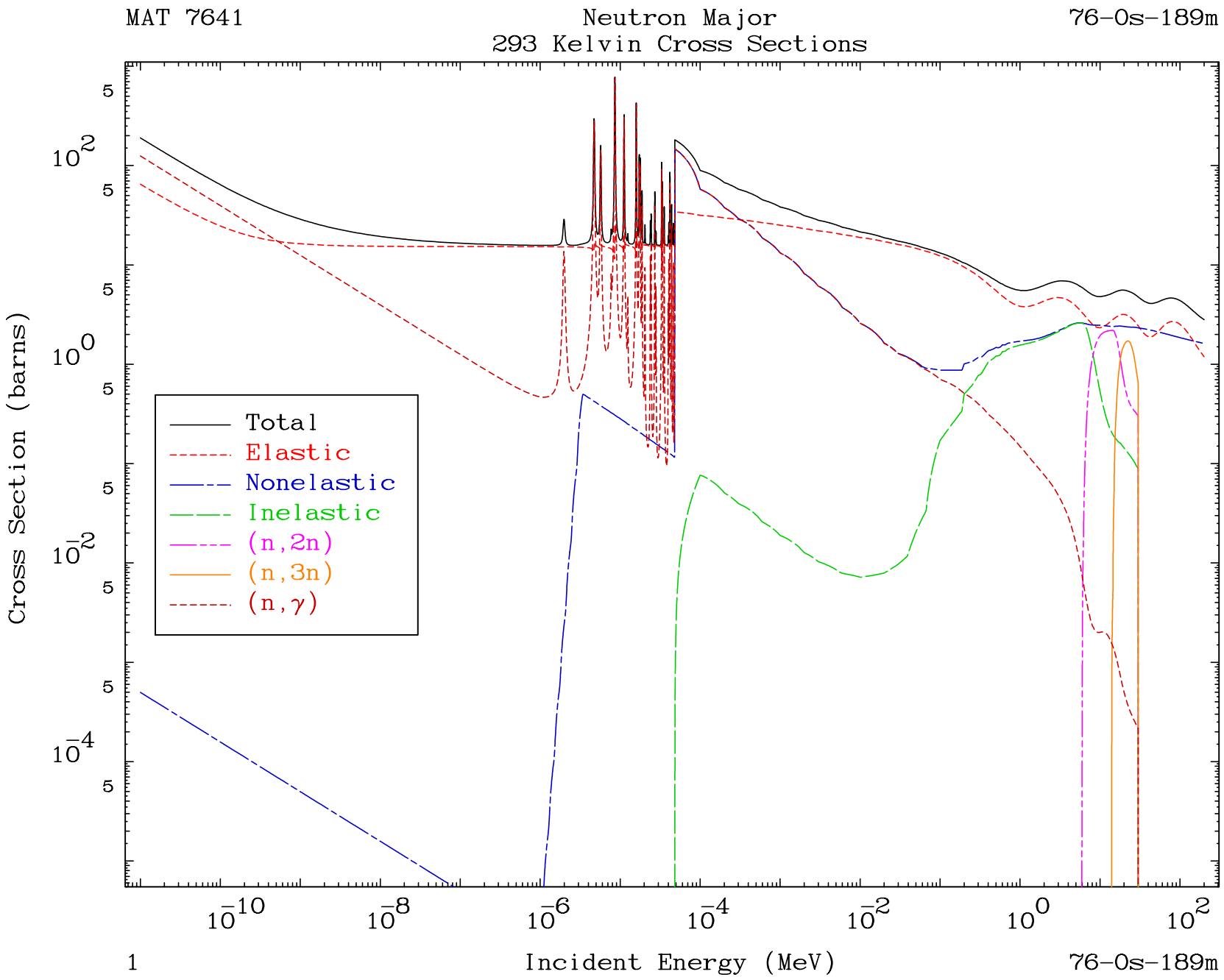
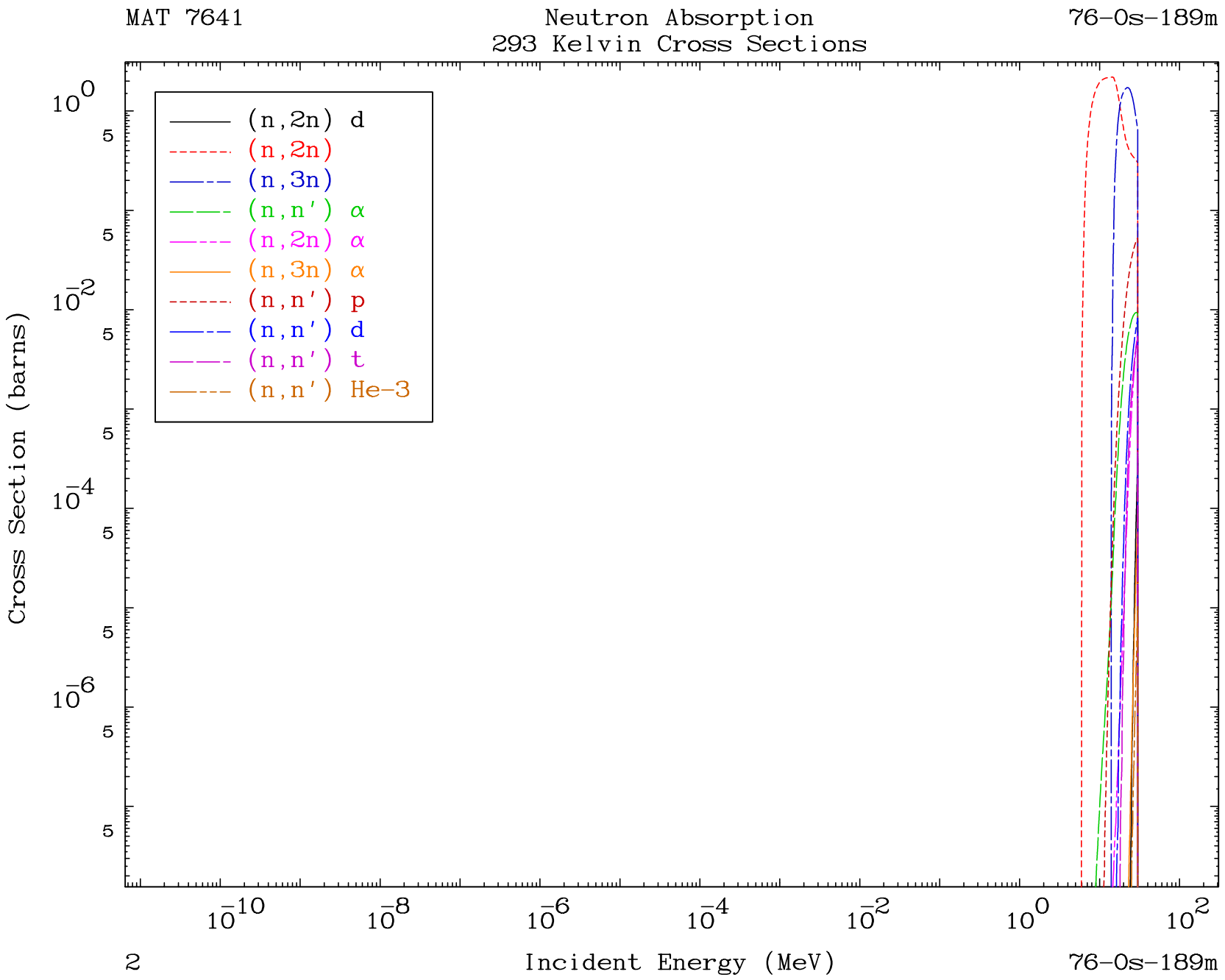
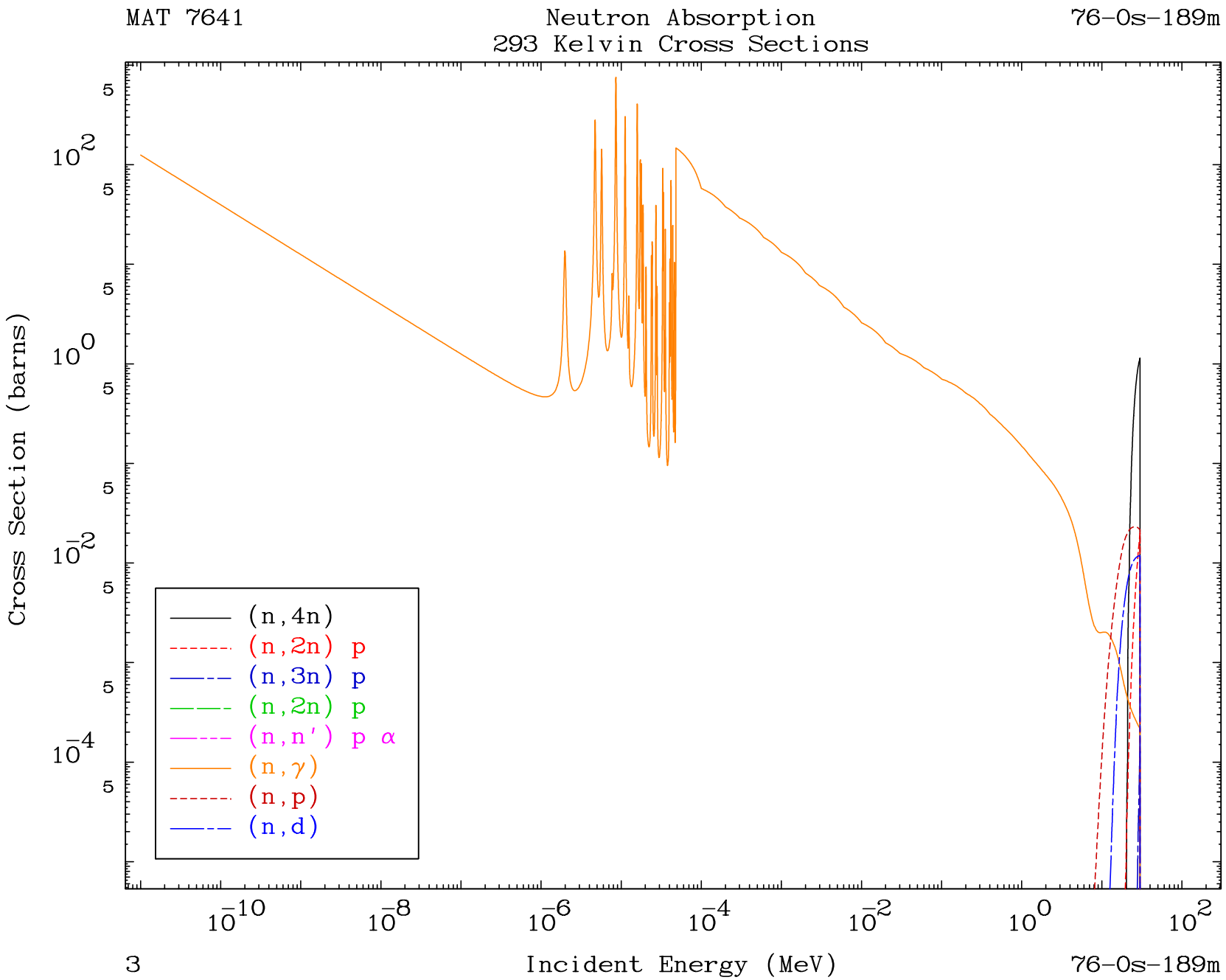
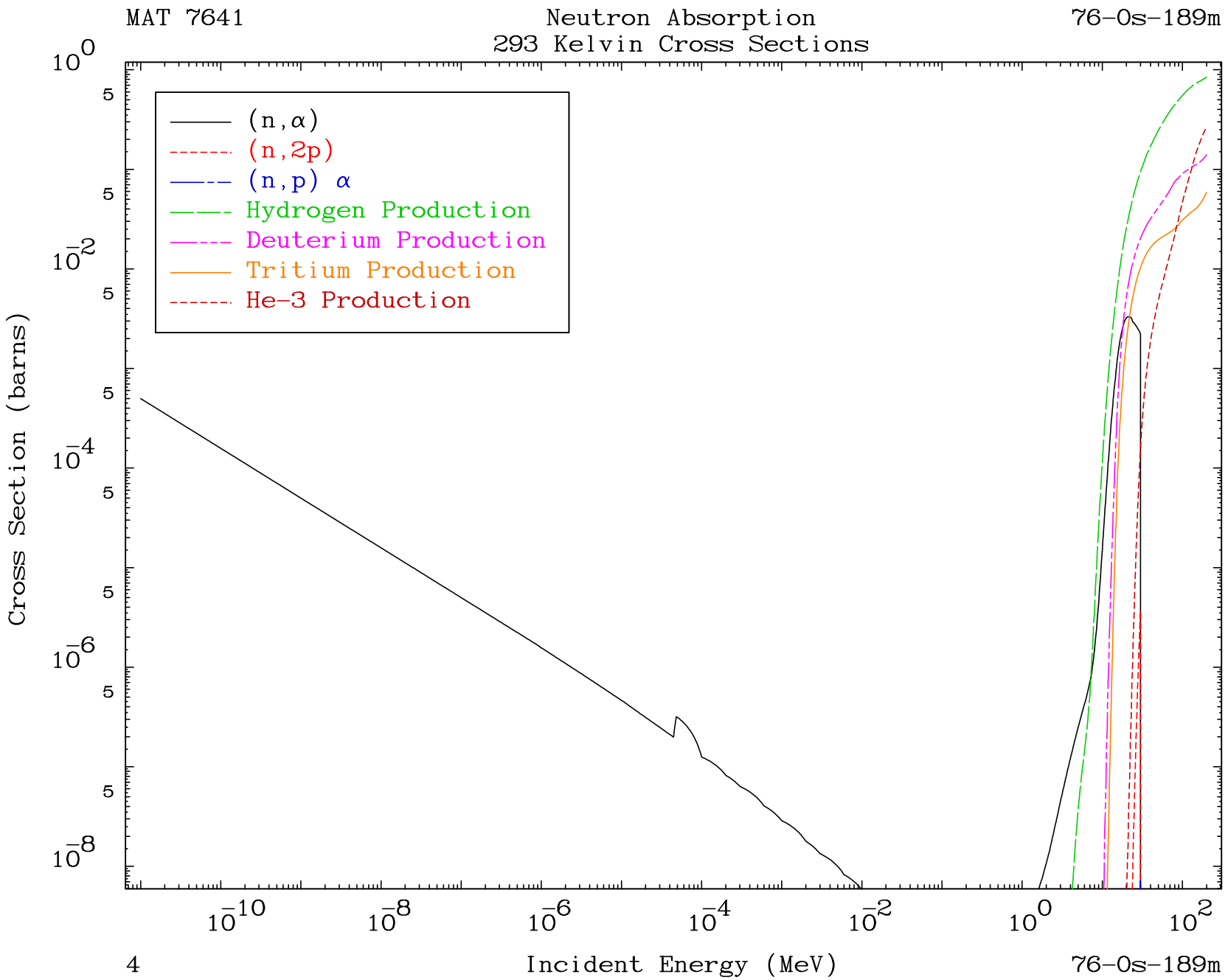
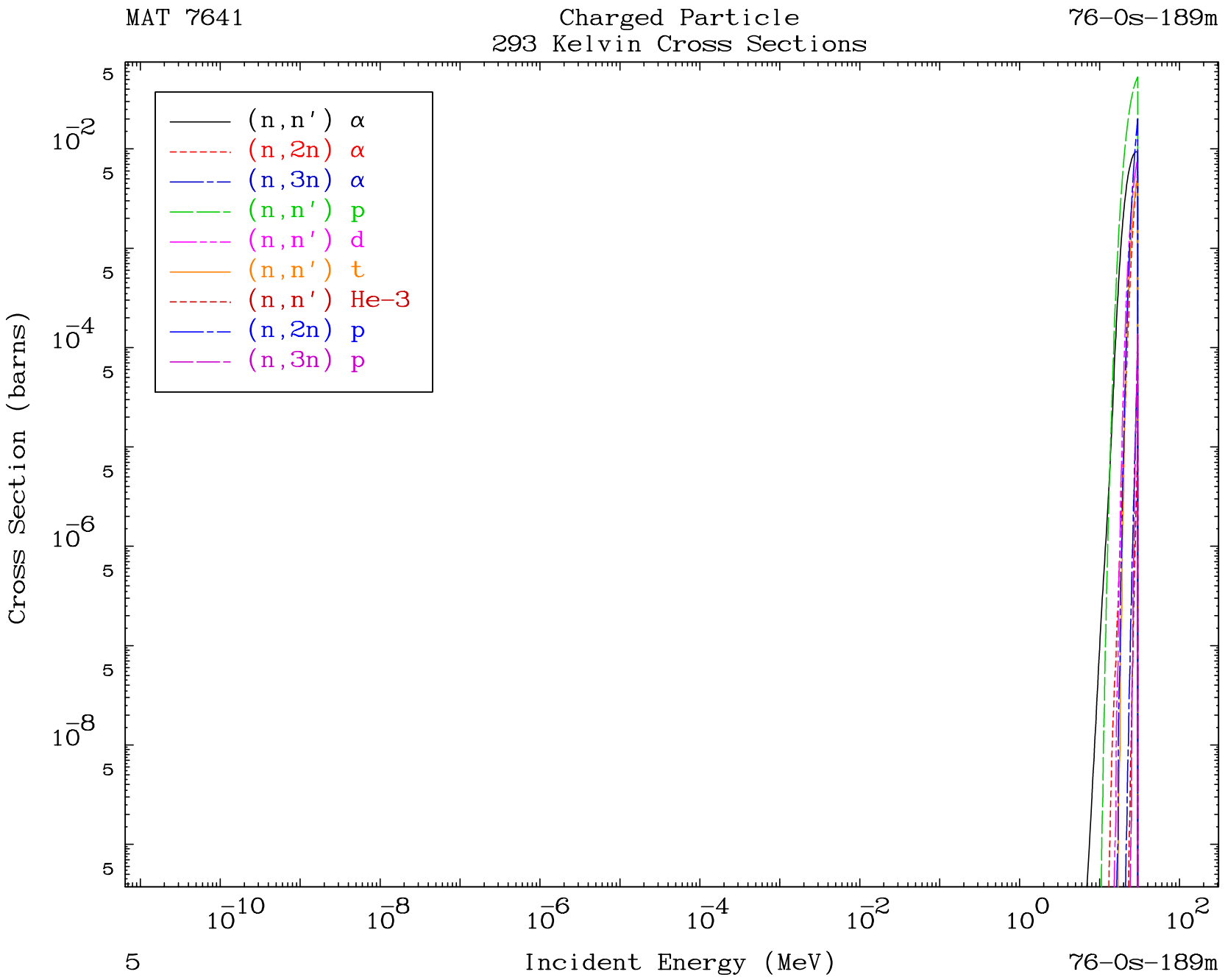
Press Mouse Button to Start

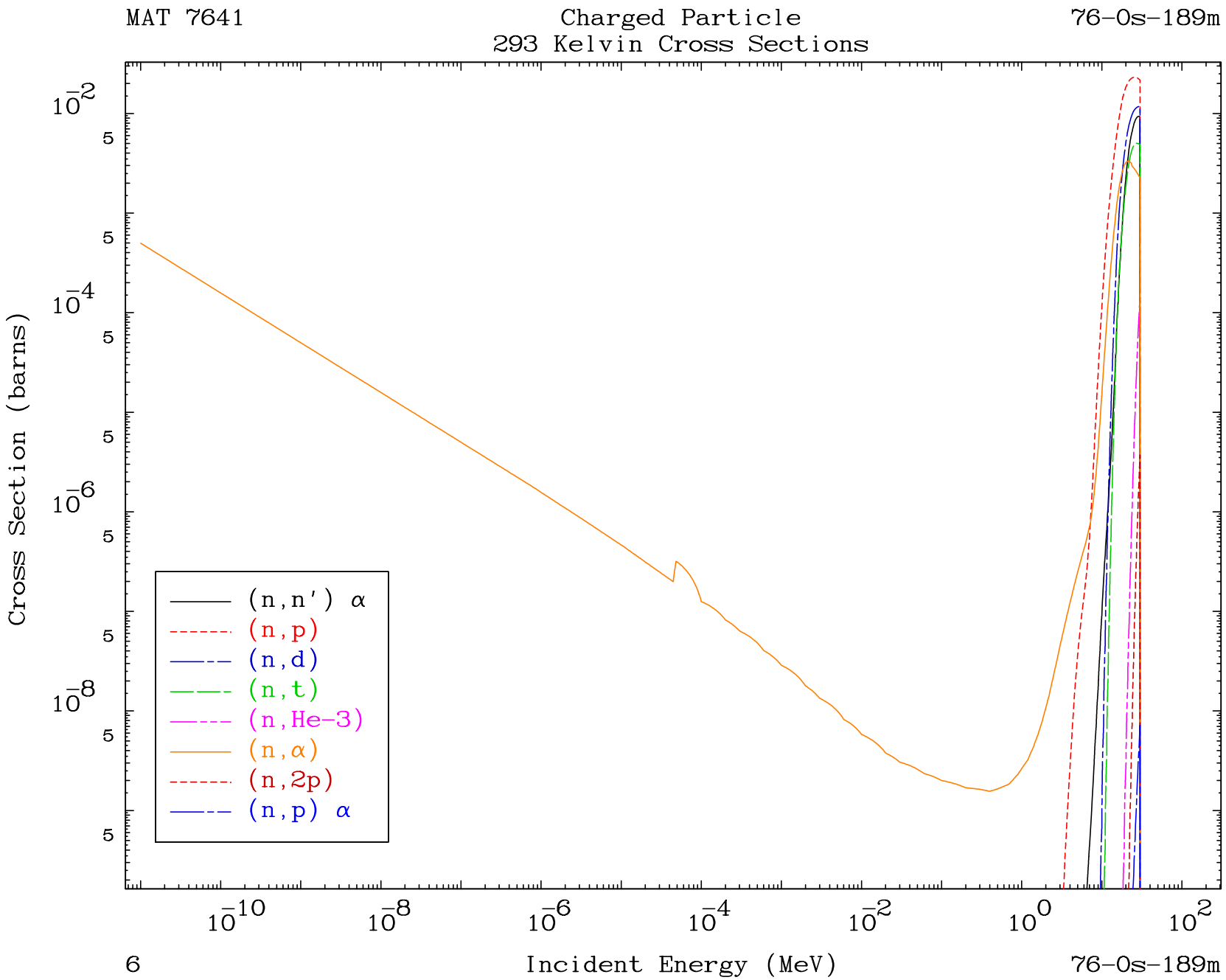

MAT 7641
Neutron Major
293 Kelvin Cross Sections
76-Os-189m
Cross Section (barns)
Incident Energy (MeV)
Total
Elastic
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)
76-Os-189m
1

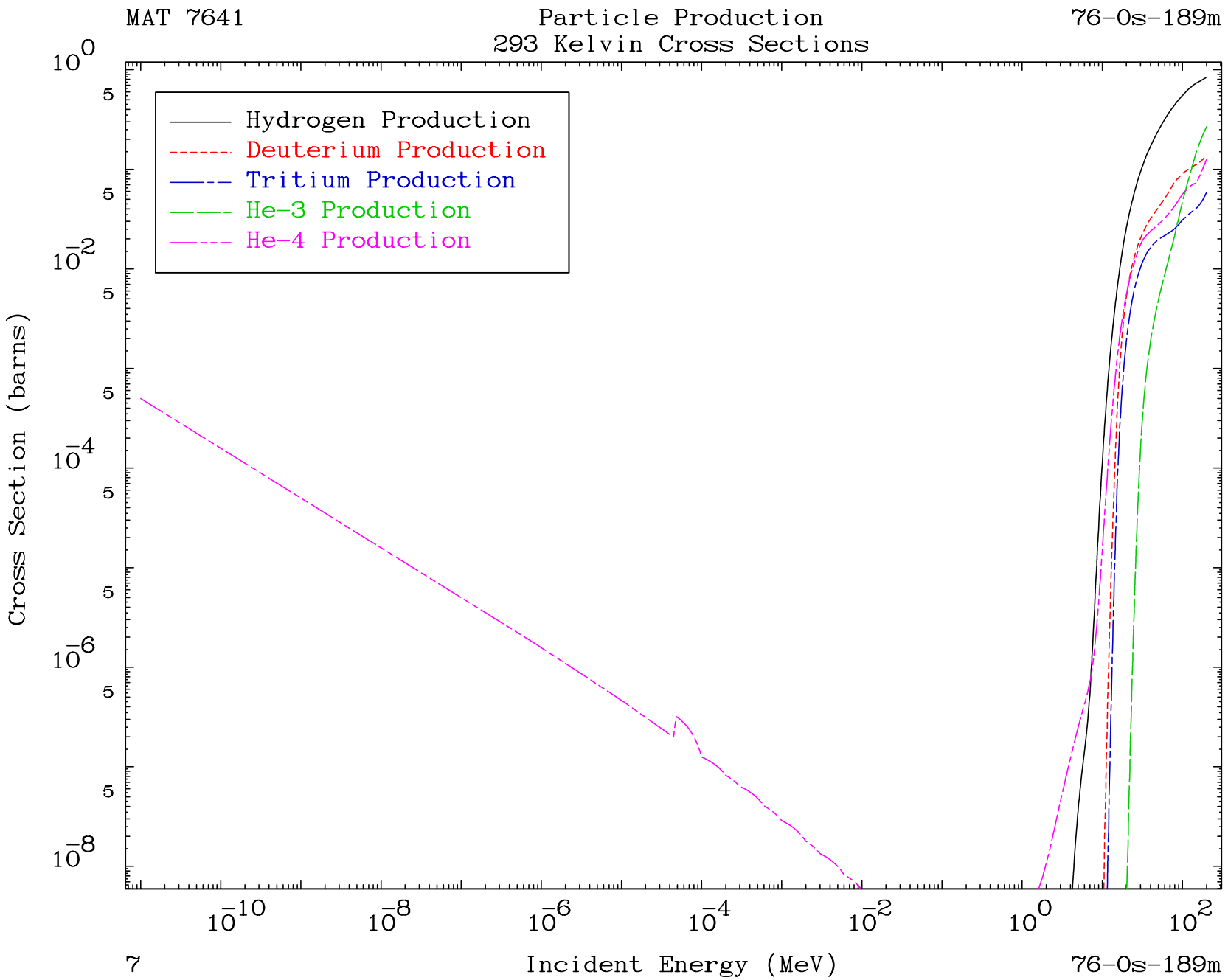

MAT 7641
Neutron Absorption
293 Kelvin Cross Sections
76-Os-189m
(n,2n) d
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') d
(n,n') t
(n,n') He-3
Cross Section (barns)
Incident Energy (MeV)
2
76-Os-189m

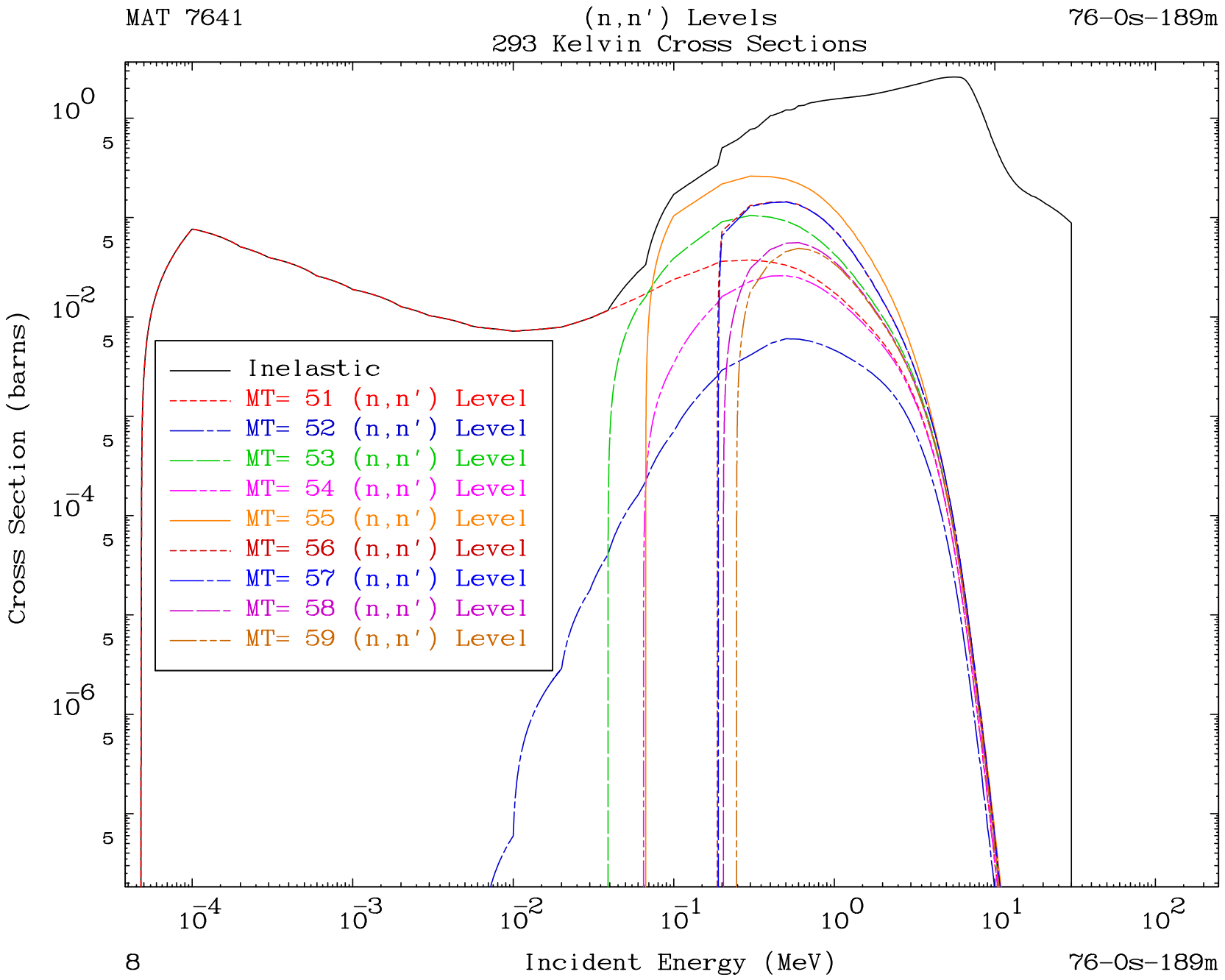

MAT 7641
Neutron Absorption
293 Kelvin Cross Sections
76-Os-189m
Cross Section (barns)
Incident Energy (MeV)
(n,4n)
(n,2n) p
(n,3n) p
(n,2n) p
(n,n') p α
(n,γ)
(n,p)
(n,d)
3
76-Os-189m

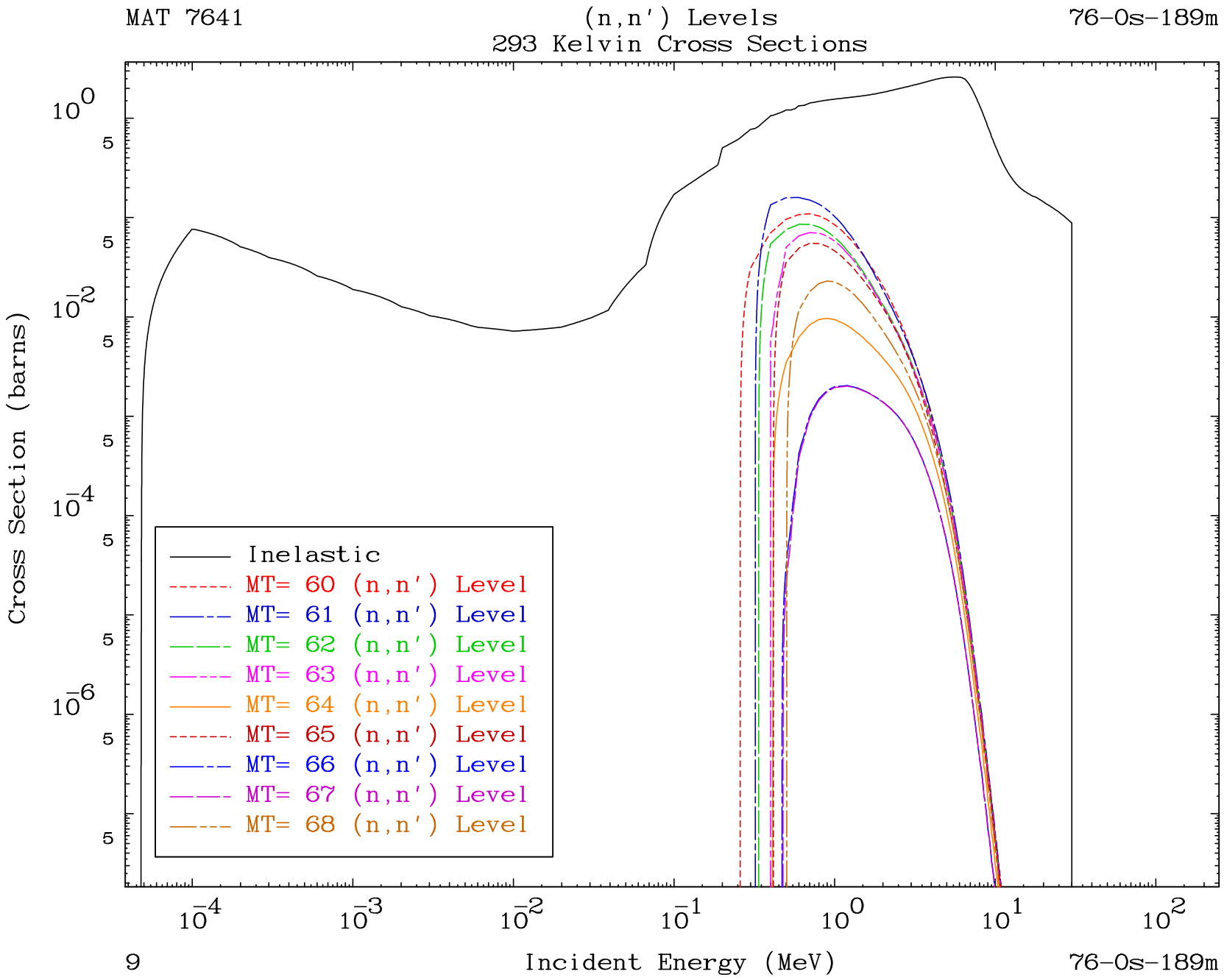

MAT 7641
Neutron Absorption
293 Kelvin Cross Sections
76-0s-189m
(n,α)
(n,2p)
(n,p) α
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
Cross Section (barns)
Incident Energy (MeV)
4
76-0s-189m

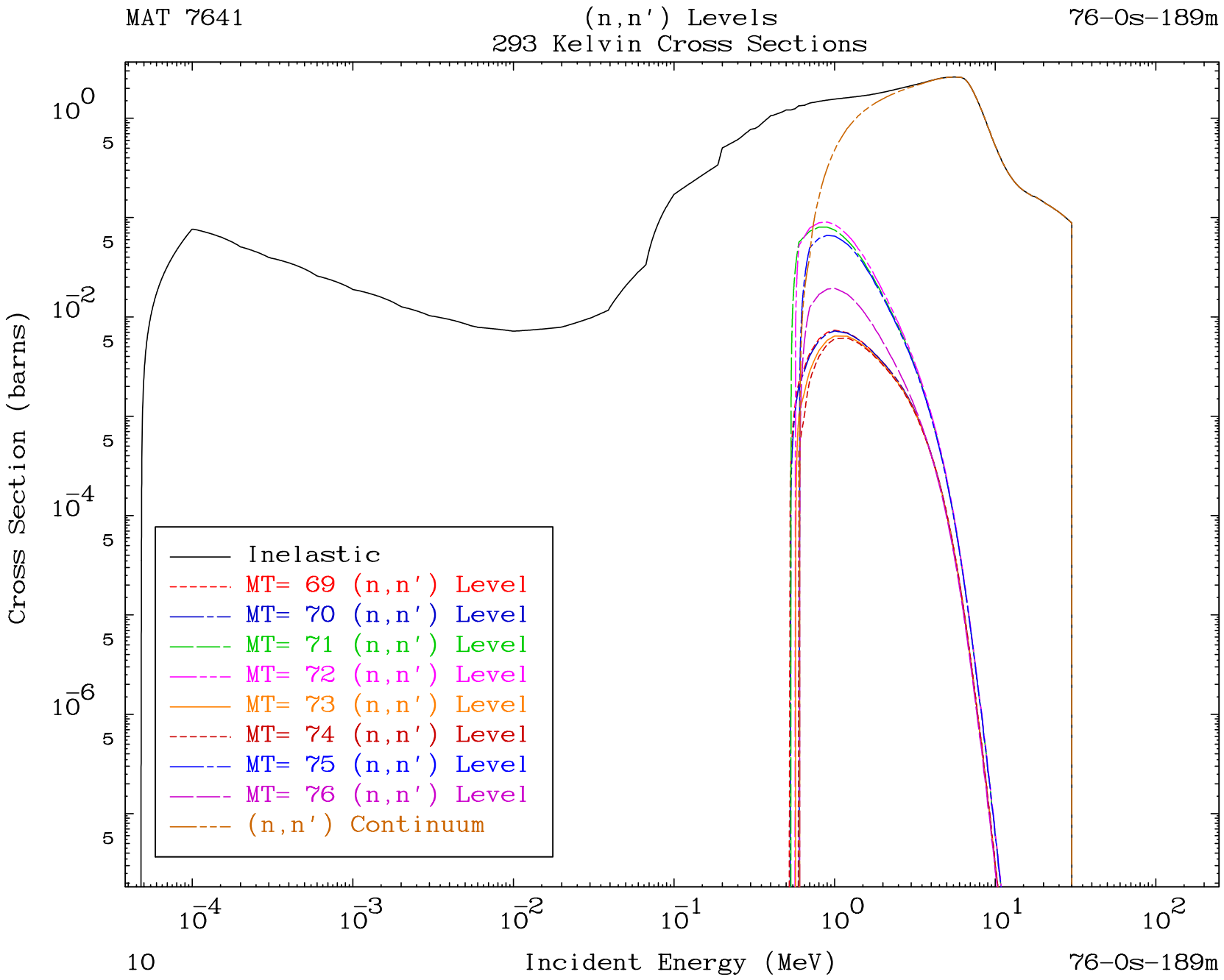

MAT 7641
Charged Particle
293 Kelvin Cross Sections
76-Os-189m
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
(n,3n) p
Cross Section (barns)
Incident Energy (MeV)
76-Os-189m

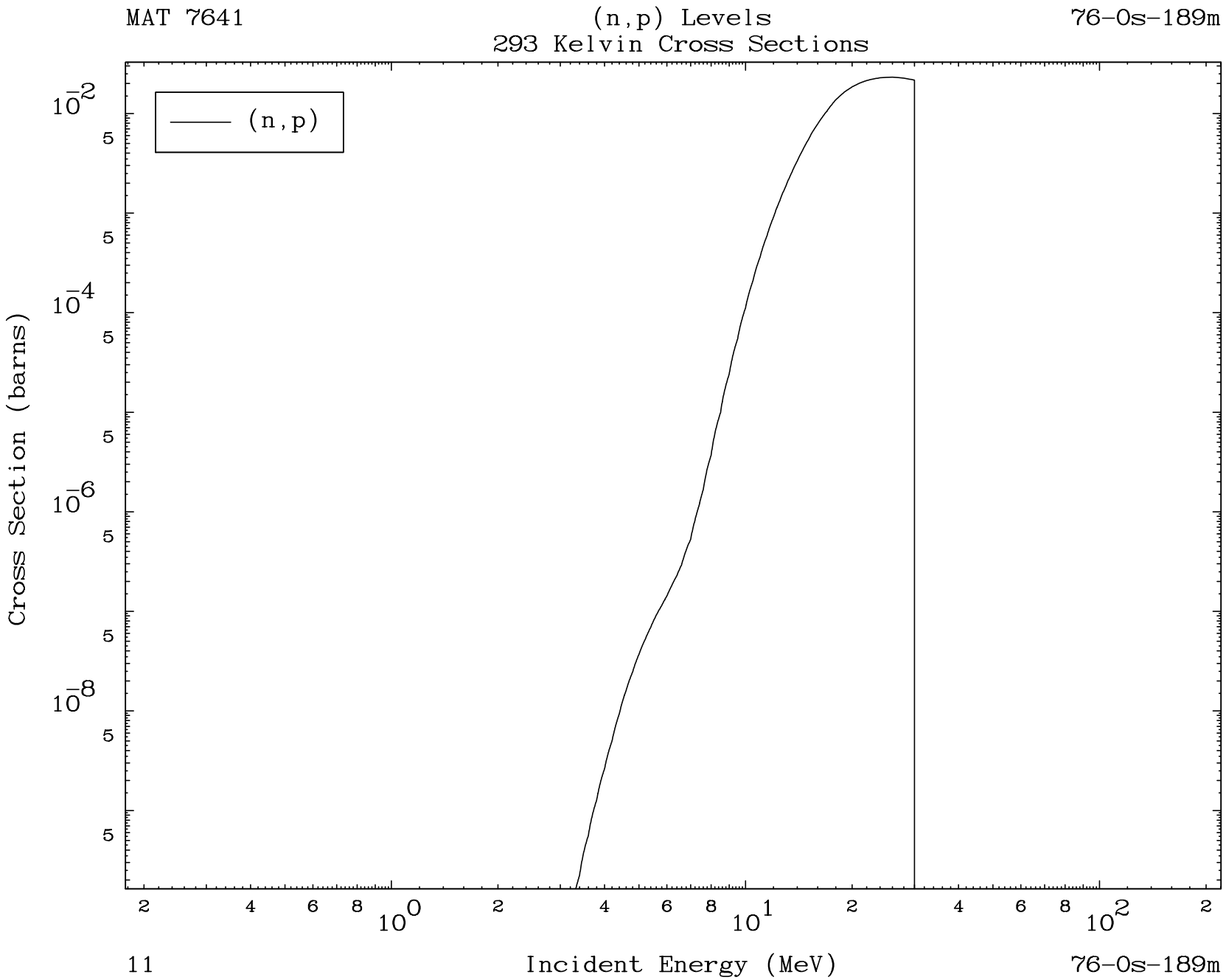

MAT 7641
Charged Particle
293 Kelvin Cross Sections
76-Os-189m
Cross Section (barns)
Incident Energy (MeV)
(n,n') α
(n,p)
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2p)
(n,p) α
6
76-Os-189m

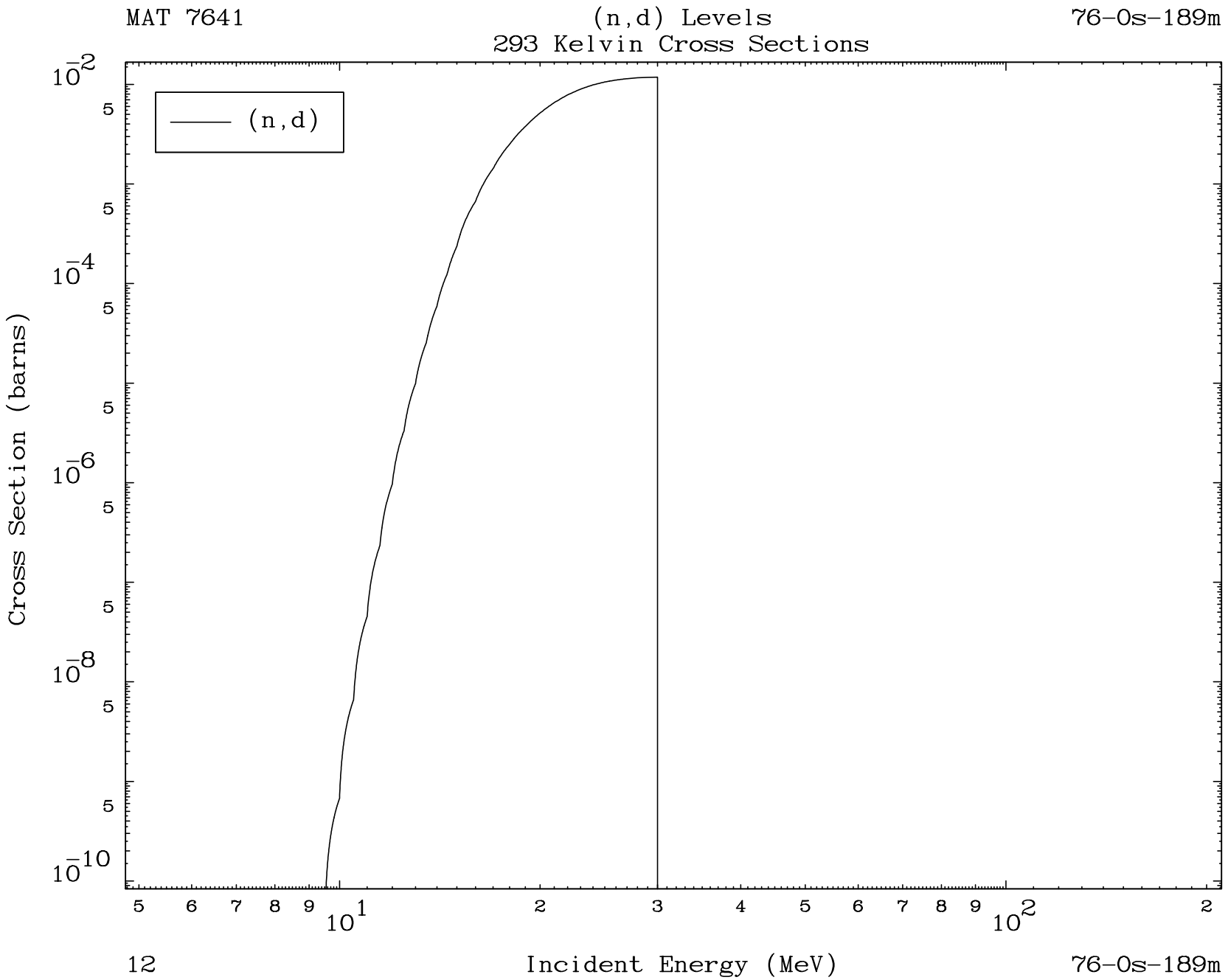

MAT 7641
Particle Production
293 Kelvin Cross Sections
76-0s-189m
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production
Cross Section (barns)
Incident Energy (MeV)
7
76-0s-189m

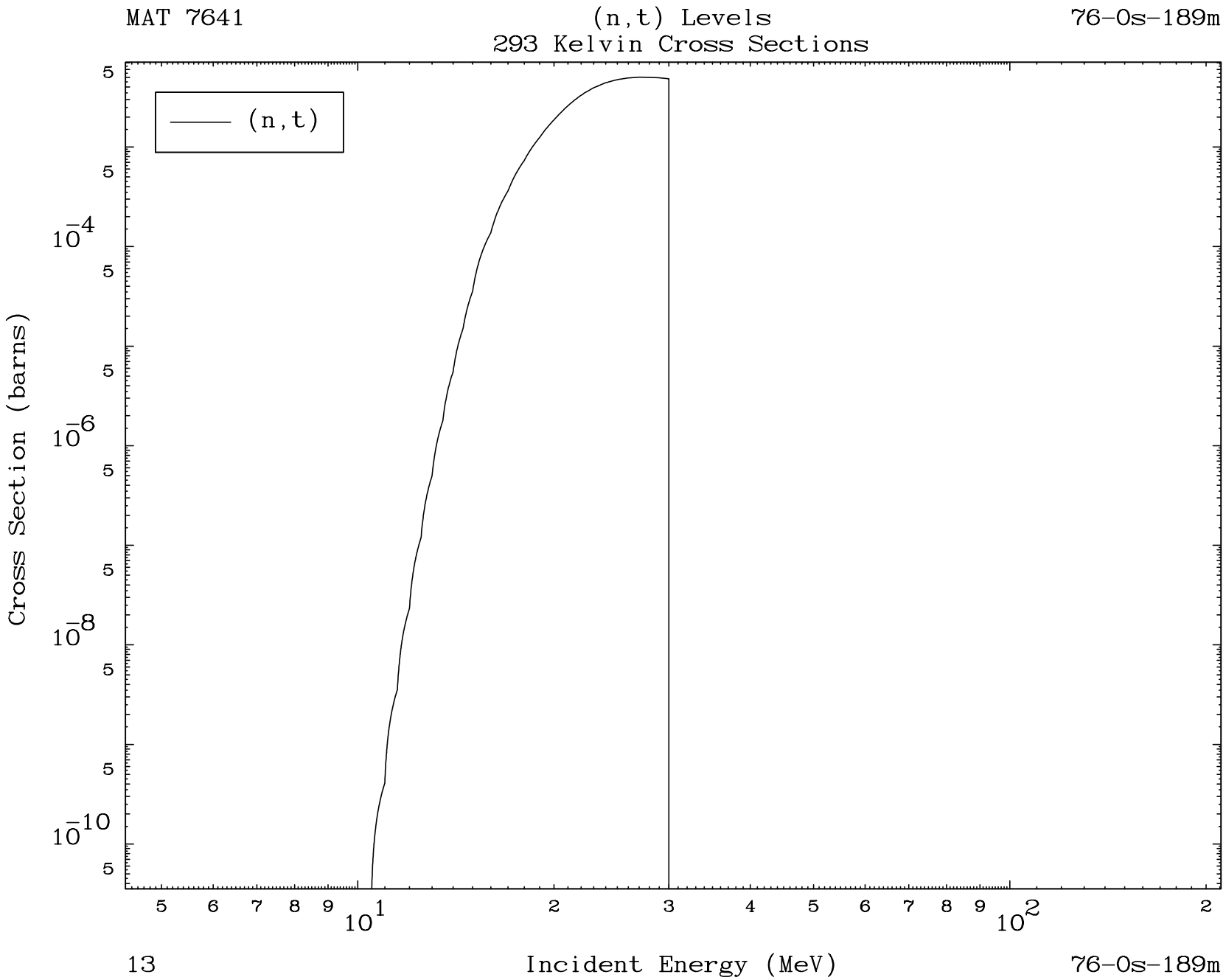

MAT 7641
(n,n') Levels
293 Kelvin Cross Sections
76-Os-189m
Cross Section (barns)
Incident Energy (MeV)
Inelastic
MT= 51 (n,n') Level
MT= 52 (n,n') Level
MT= 53 (n,n') Level
MT= 54 (n,n') Level
MT= 55 (n,n') Level
MT= 56 (n,n') Level
MT= 57 (n,n') Level
MT= 58 (n,n') Level
MT= 59 (n,n') Level
8
76-Os-189m

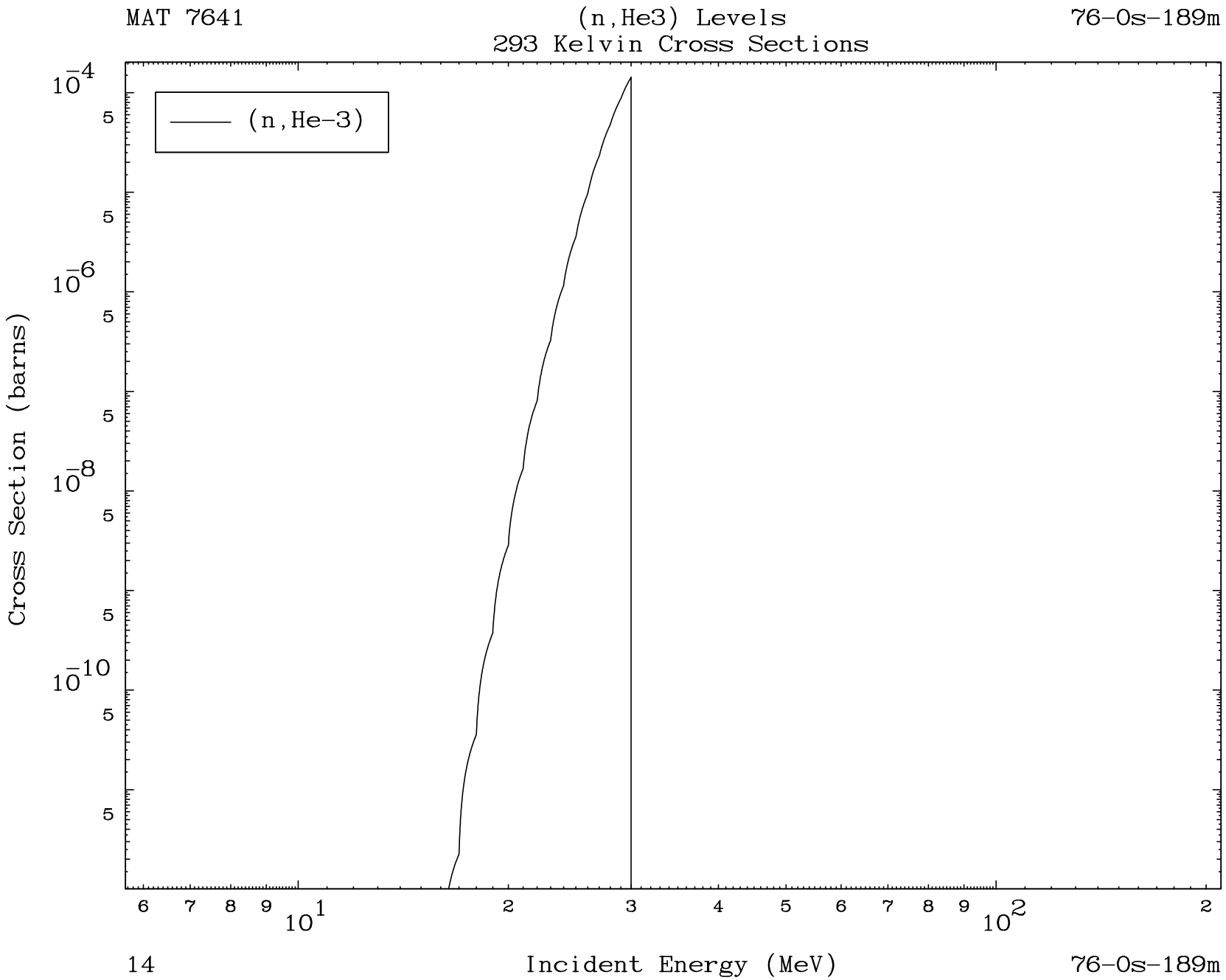

MAT 7641
(n,n') Levels
293 Kelvin Cross Sections
76-Os-189m
Cross Section (barns)
Incident Energy (MeV)
Inelastic
MT= 60 (n,n') Level
MT= 61 (n,n') Level
MT= 62 (n,n') Level
MT= 63 (n,n') Level
MT= 64 (n,n') Level
MT= 65 (n,n') Level
MT= 66 (n,n') Level
MT= 67 (n,n') Level
MT= 68 (n,n') Level
9
76-Os-189m

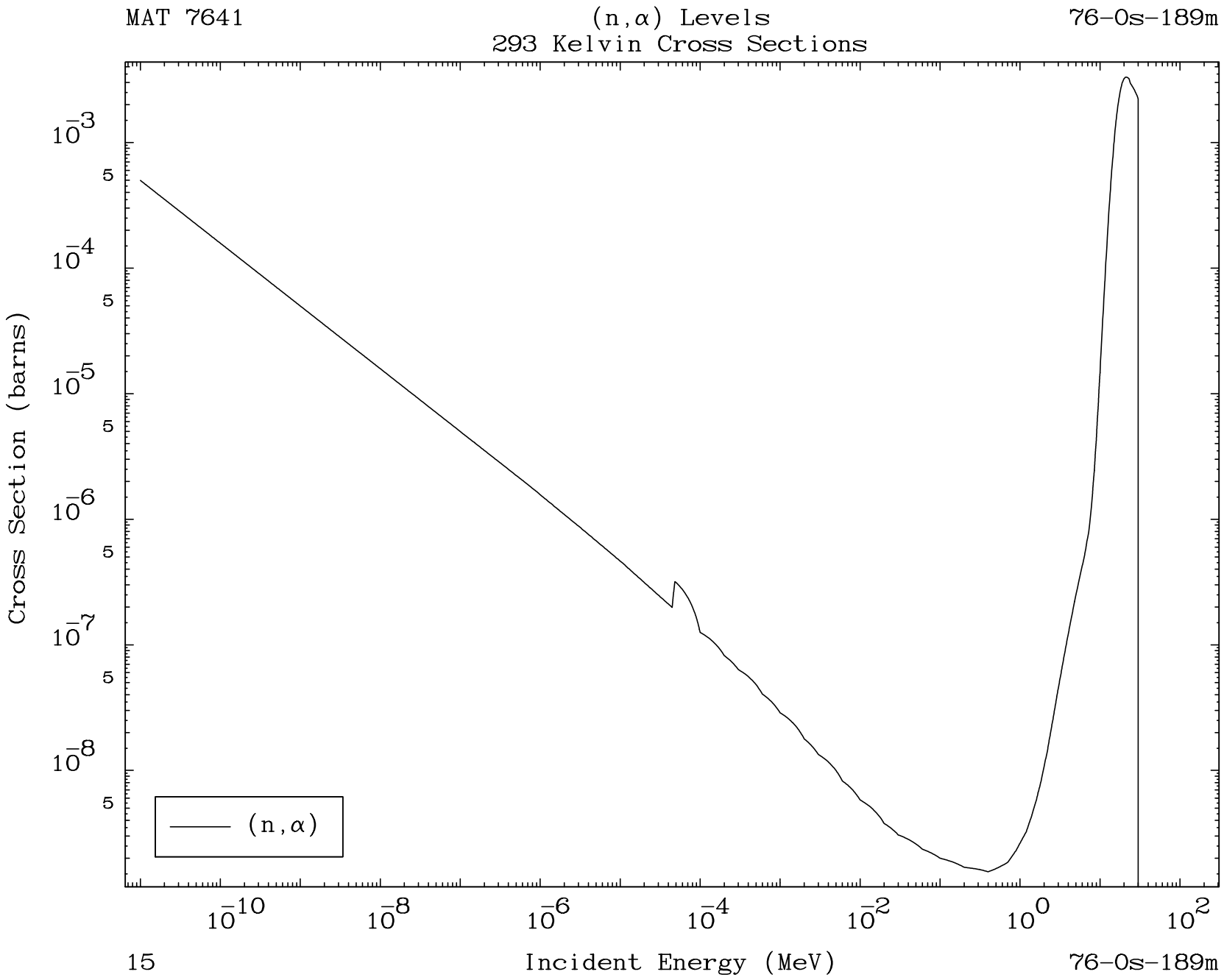

MAT 7641
(n,n') Levels
293 Kelvin Cross Sections
76-Os-189m
Cross Section (barns)
Incident Energy (MeV)
Inelastic
MT= 69 (n,n') Level
MT= 70 (n,n') Level
MT= 71 (n,n') Level
MT= 72 (n,n') Level
MT= 73 (n,n') Level
MT= 74 (n,n') Level
MT= 75 (n,n') Level
MT= 76 (n,n') Level
(n,n') Continuum

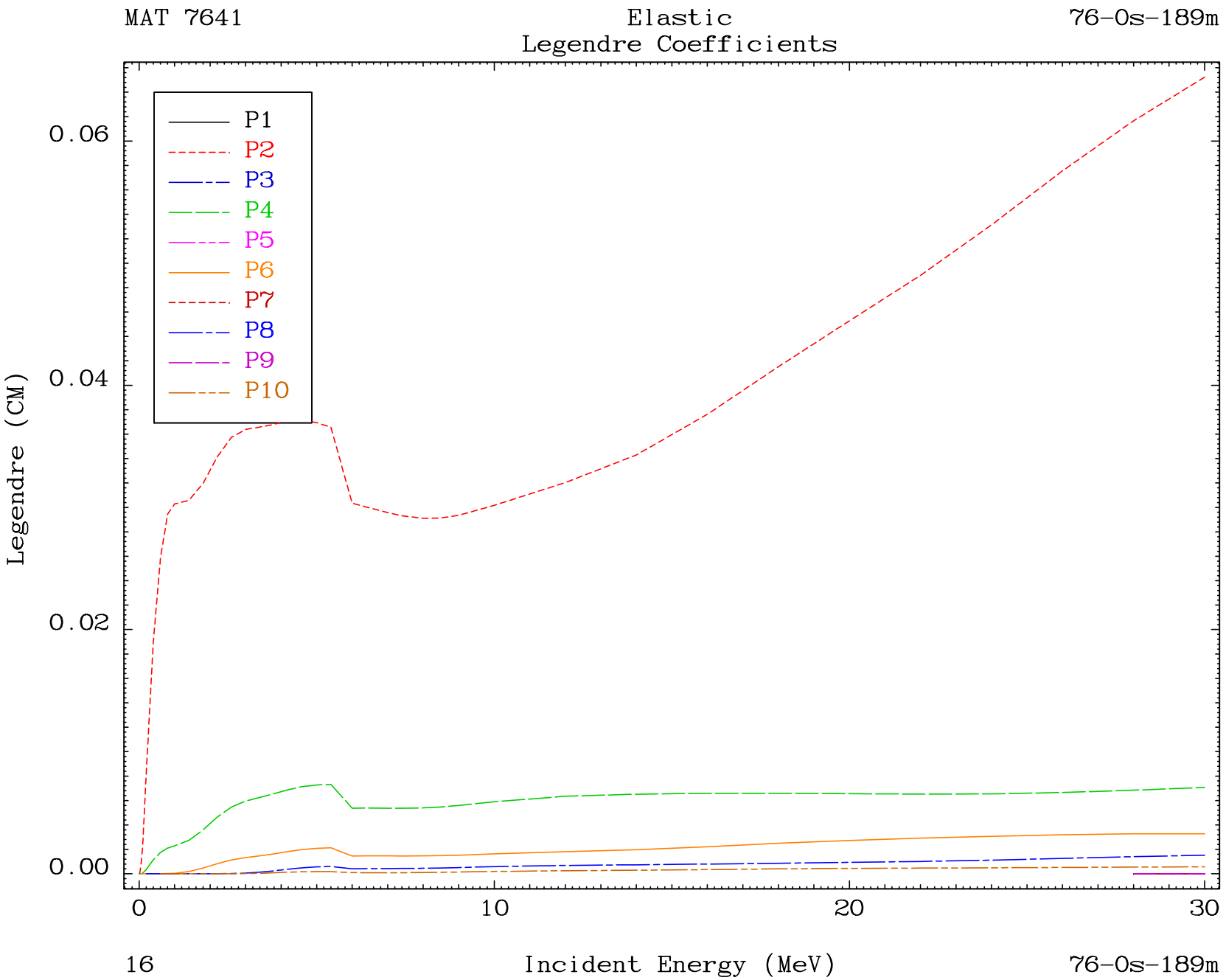

MAT 7641
(n,p) Levels
293 Kelvin Cross Sections
76-Os-189m
(n,p)
Cross Section (barns)
10-2
10-4
10-6
10-8
5
2
4
6
8
100
101
102
Incident Energy (MeV)
11
76-Os-189m

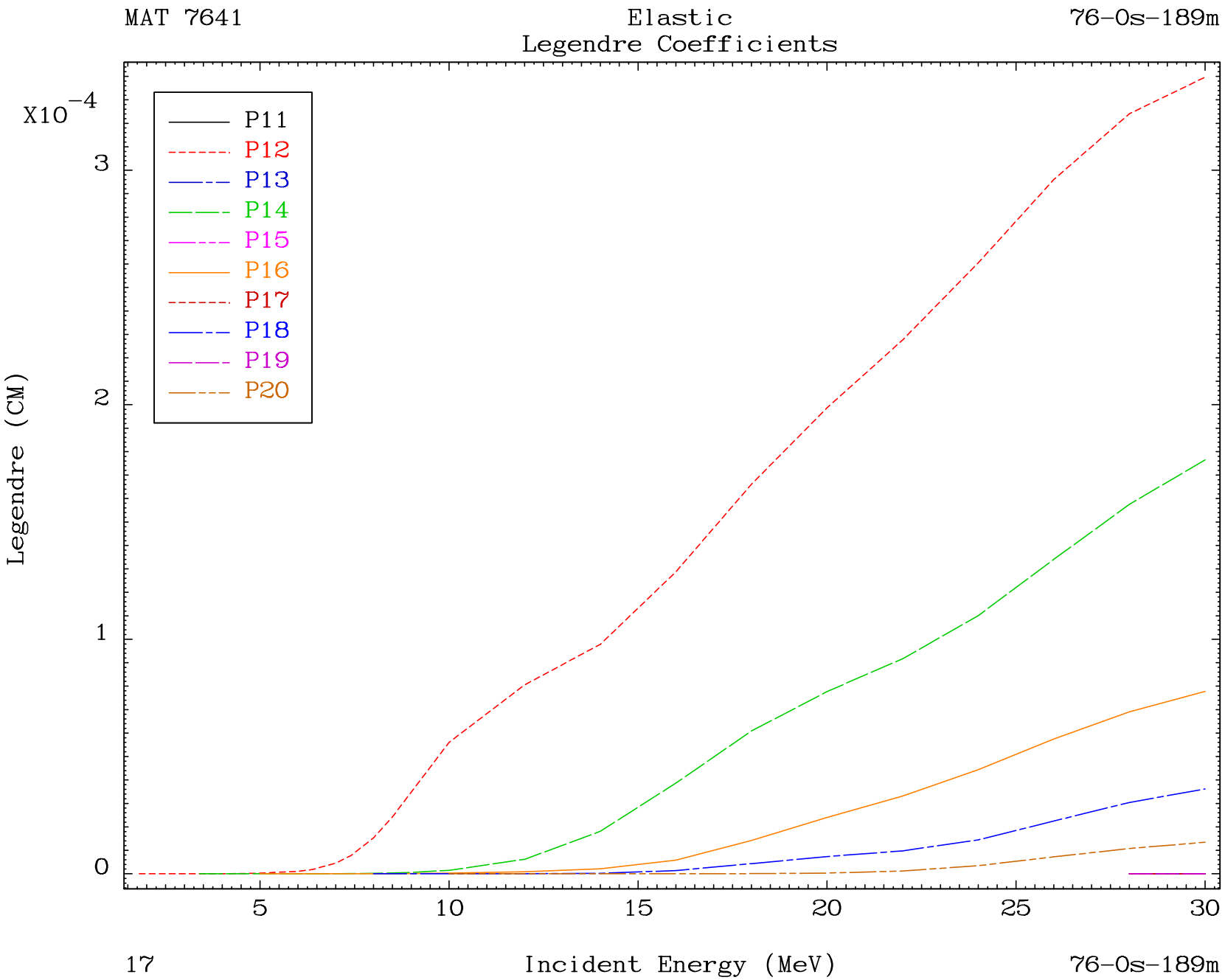

MAT 7641
(n,d) Levels
293 Kelvin Cross Sections
76-Os-189m
(n,d)
Cross Section (barns)
Incident Energy (MeV)
12
76-Os-189m

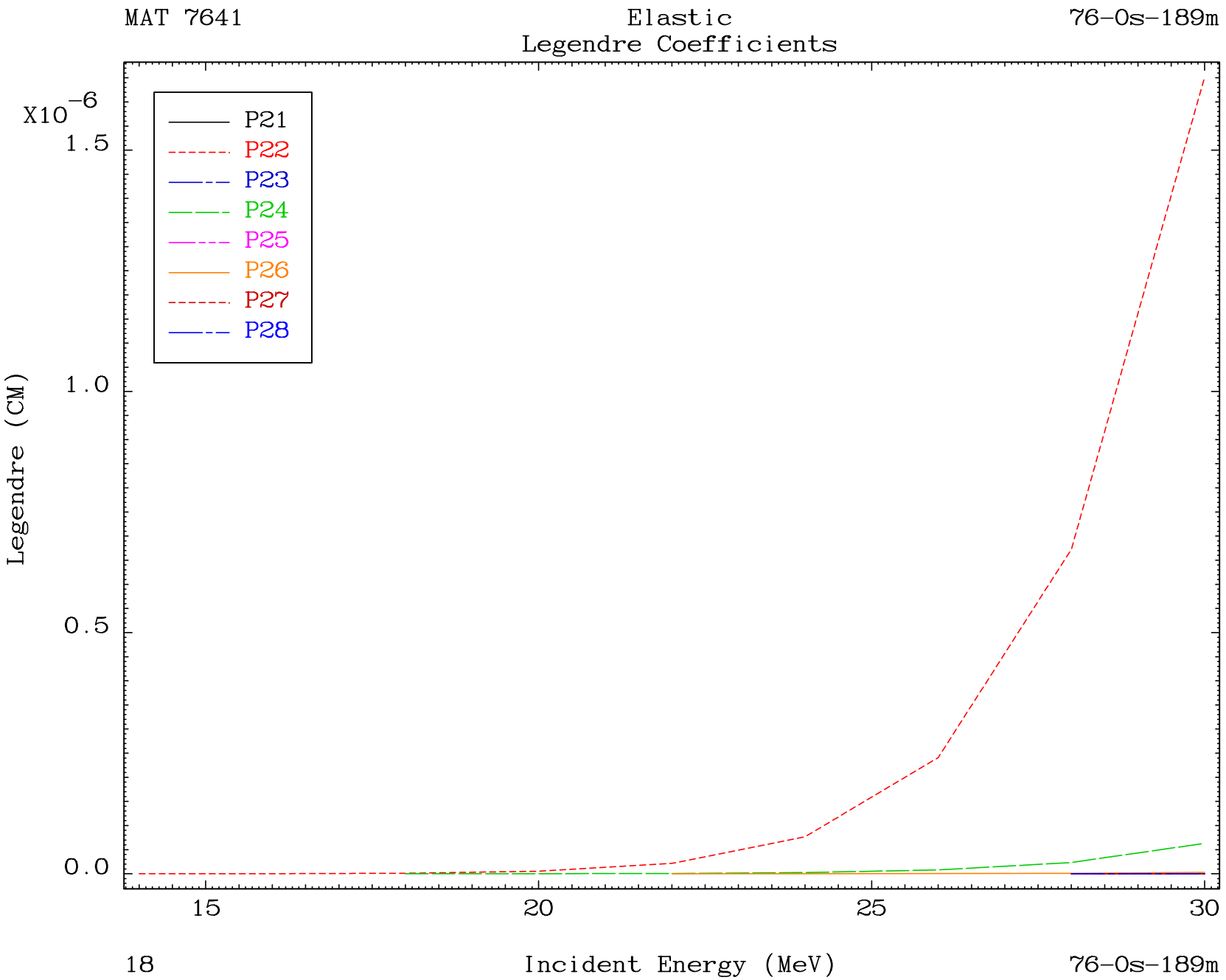

MAT 7641
(n,t) Levels
293 Kelvin Cross Sections
76-Os-189m
(n,t)
Cross Section (barns)
Incident Energy (MeV)
13
76-Os-189m

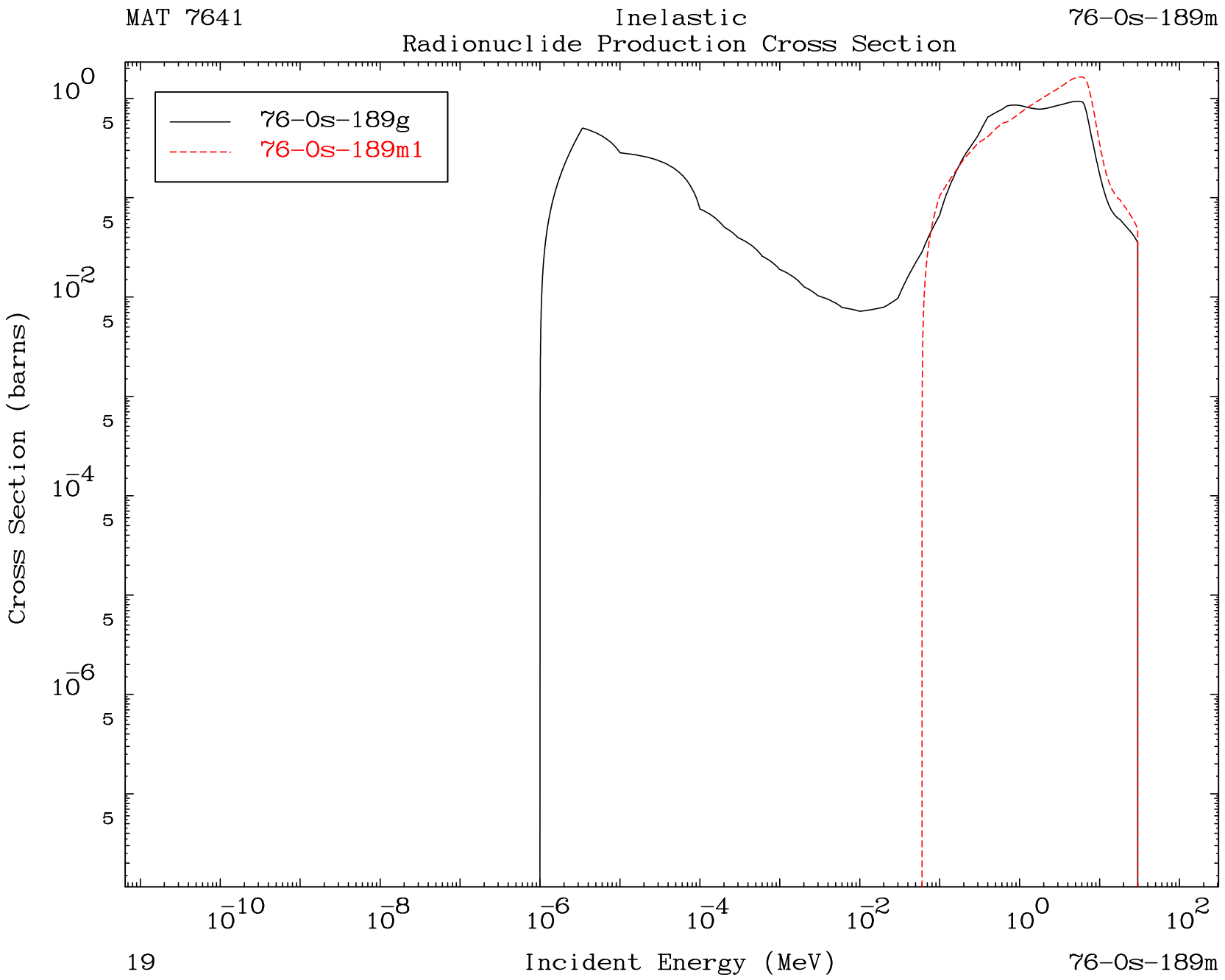

MAT 7641
(n,He3) Levels
293 Kelvin Cross Sections
76-0s-189m
(n,He-3)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
Incident Energy (MeV)
10^1
10^2
14
76-0s-189m

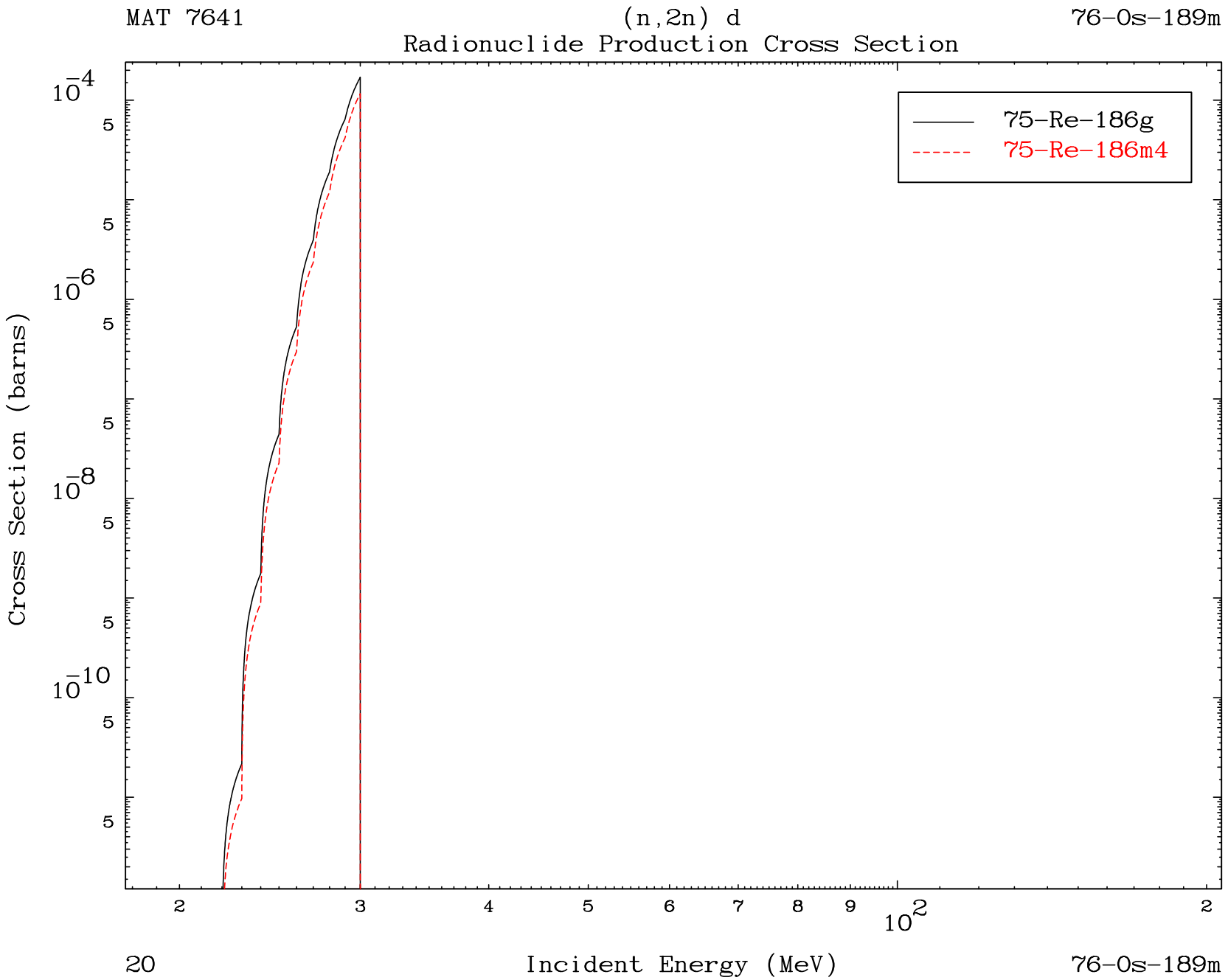

MAT 7641
(n,α) Levels
293 Kelvin Cross Sections
76-0s-189m
Cross Section (barns)
10-3
5
10-4
5
10-5
5
10-6
5
10-7
5
10-8
5
(n,α)
10-10
10-8
10-6
10-4
10-2
100
102
15
Incident Energy (MeV)
76-0s-189m

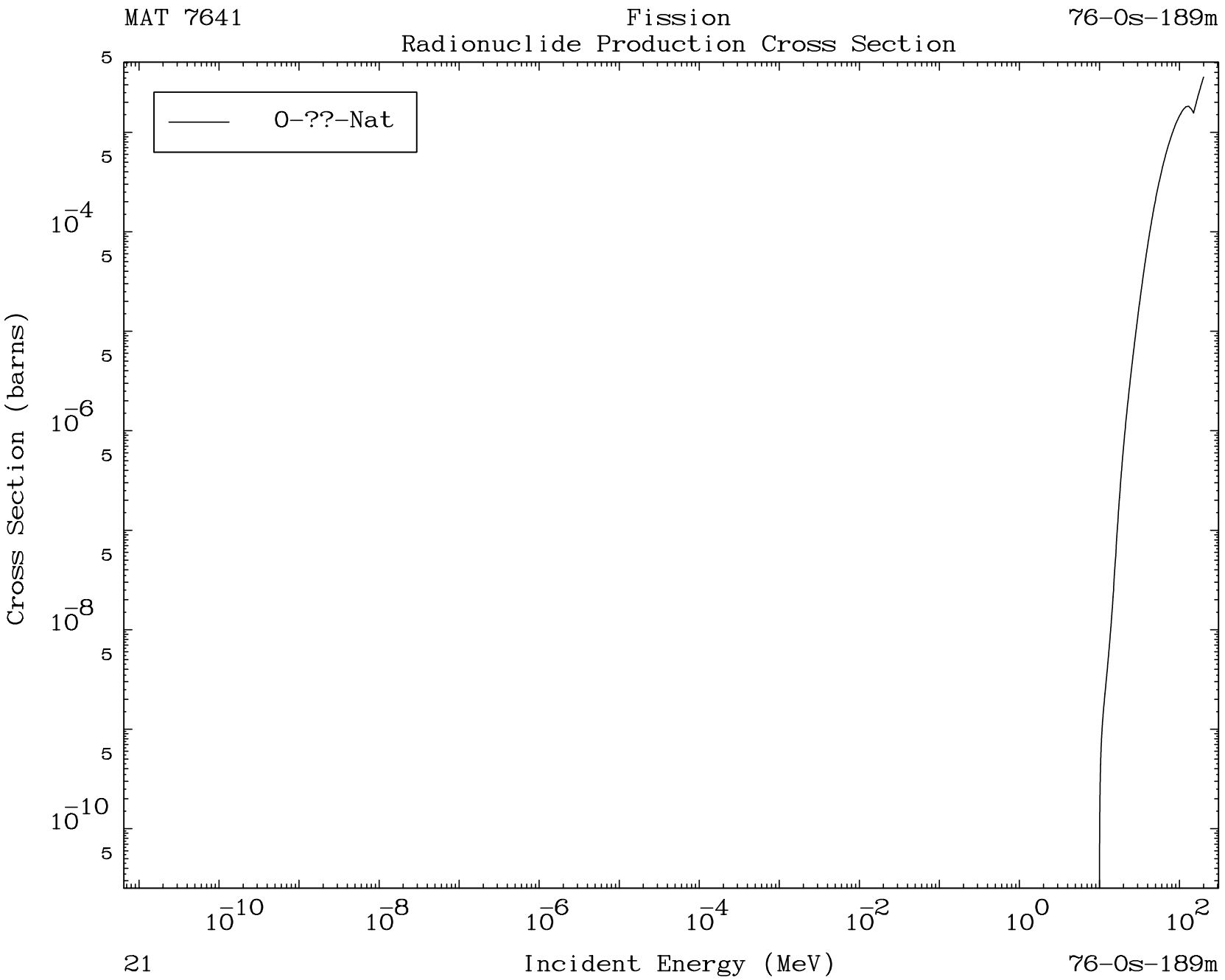

MAT 7641
Elastic
Legendre Coefficients
76-Os-189m
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
0.06
0.04
0.02
0.00
Legendre (CM)
0
10
20
30
16
Incident Energy (MeV)
76-Os-189m


MAT 7641
Elastic
Legendre Coefficients
76-Os-189m
X10^-4
3
2
1
0
Legendre (CM)
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
5
10
15
20
25
30
17
Incident Energy (MeV)
76-Os-189m


MAT 7641
Elastic
Legendre Coefficients
76-Os-189m
X10 −6
1.5
1.0
0.5
0.0
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
15
20
25
30
18
Incident Energy (MeV)
76-Os-189m


MAT 7641
Inelastic
76-Os-189m
Radionuclide Production Cross Section
76-Os-189g
76-Os-189m1
Cross Section (barns)
Incident Energy (MeV)
19
76-Os-189m


MAT 7641
(n,2n) d
76-Os-189m
Radionuclide Production Cross Section
75-Re-186g
75-Re-186m4
Cross Section (barns)
Incident Energy (MeV)
20
76-Os-189m


MAT 7641
Fission
76-0s-189m
Radionuclide Production Cross Section
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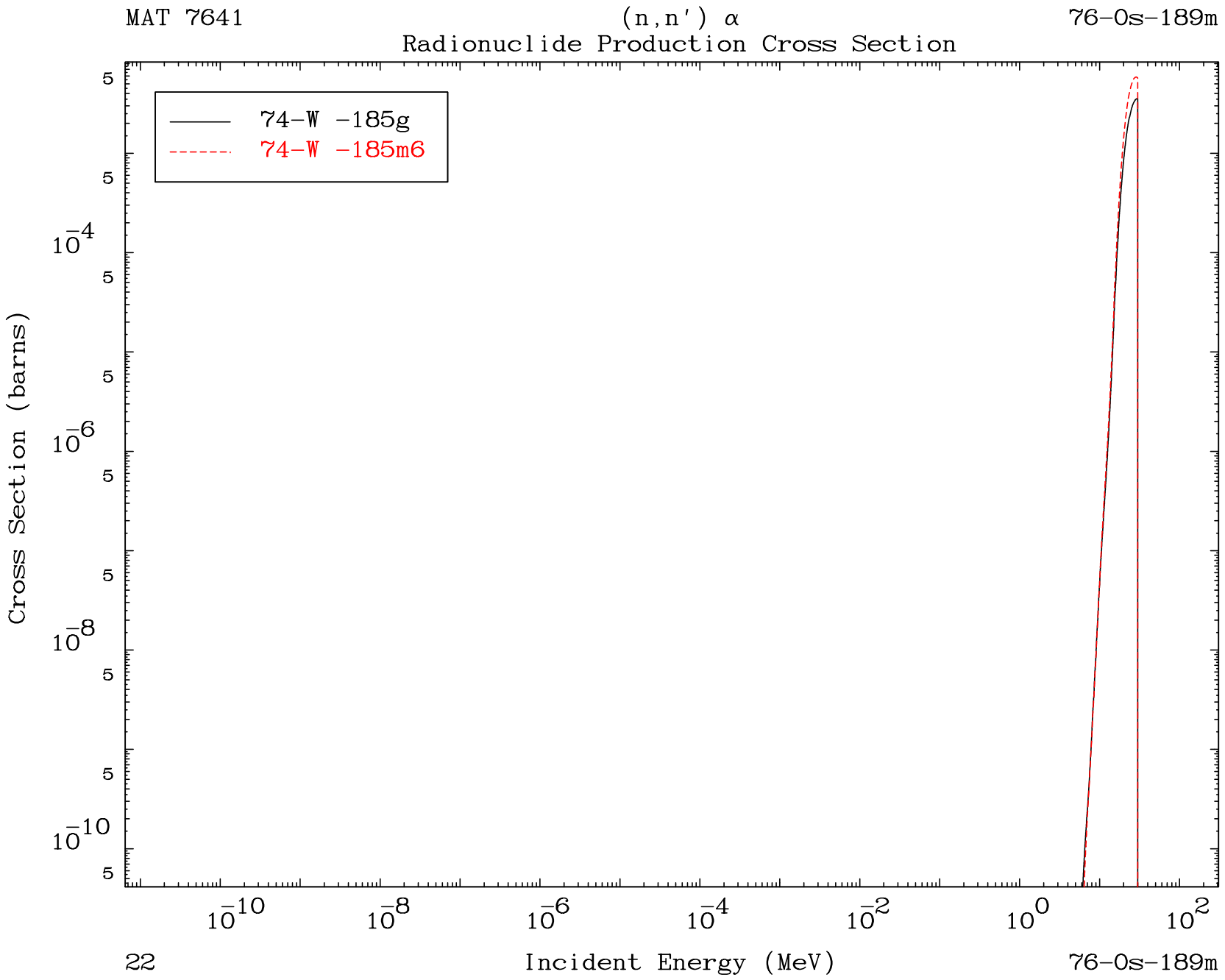
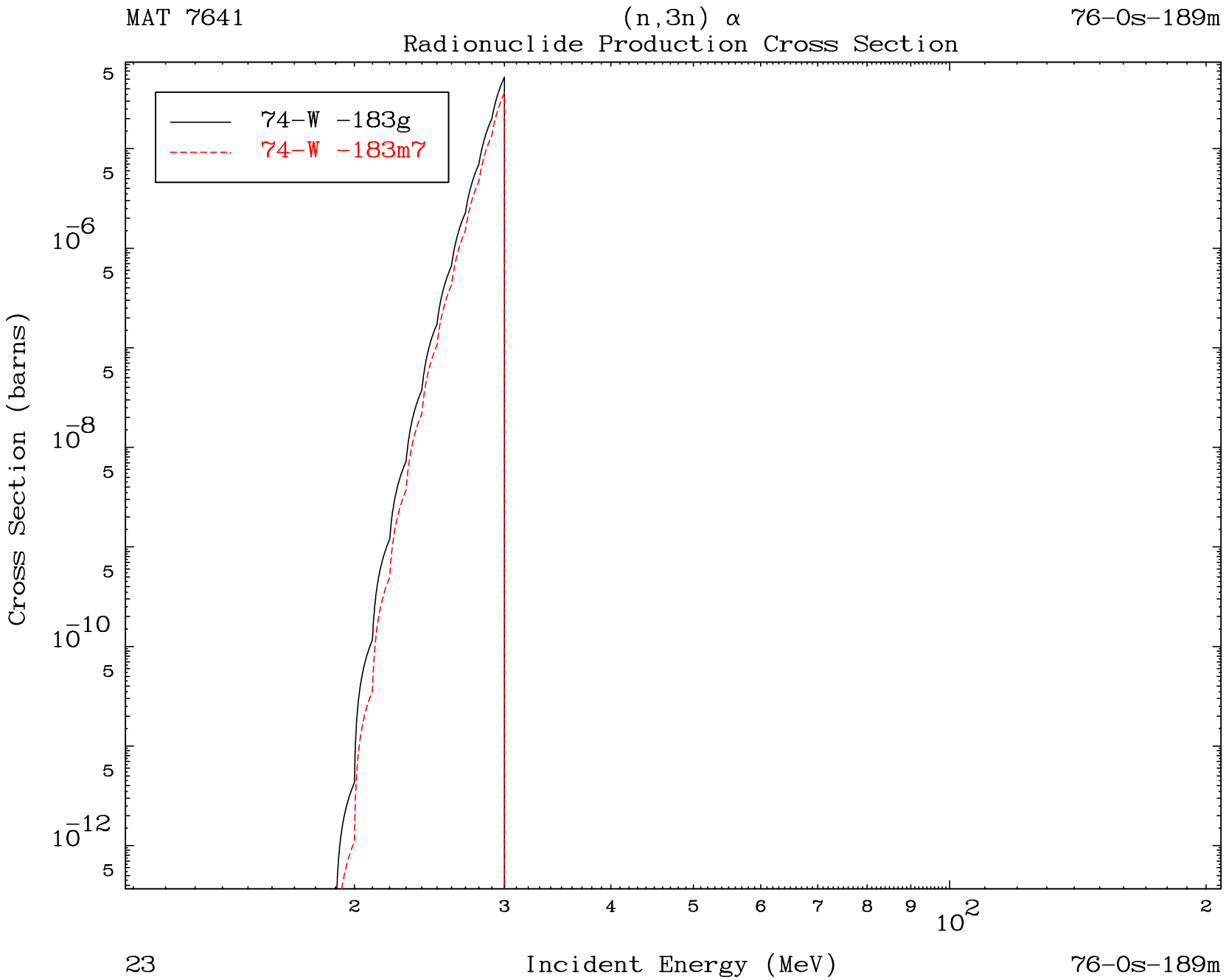
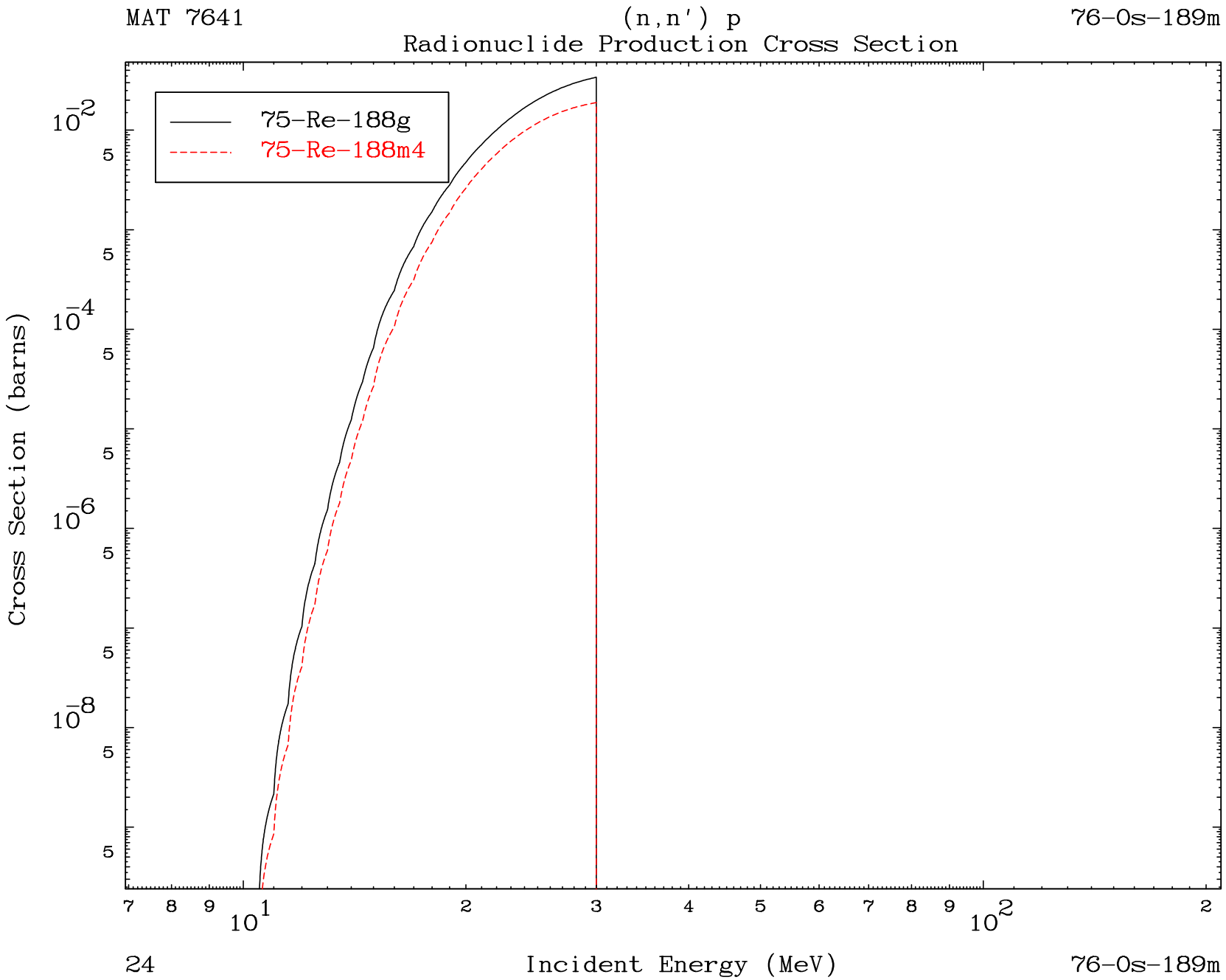
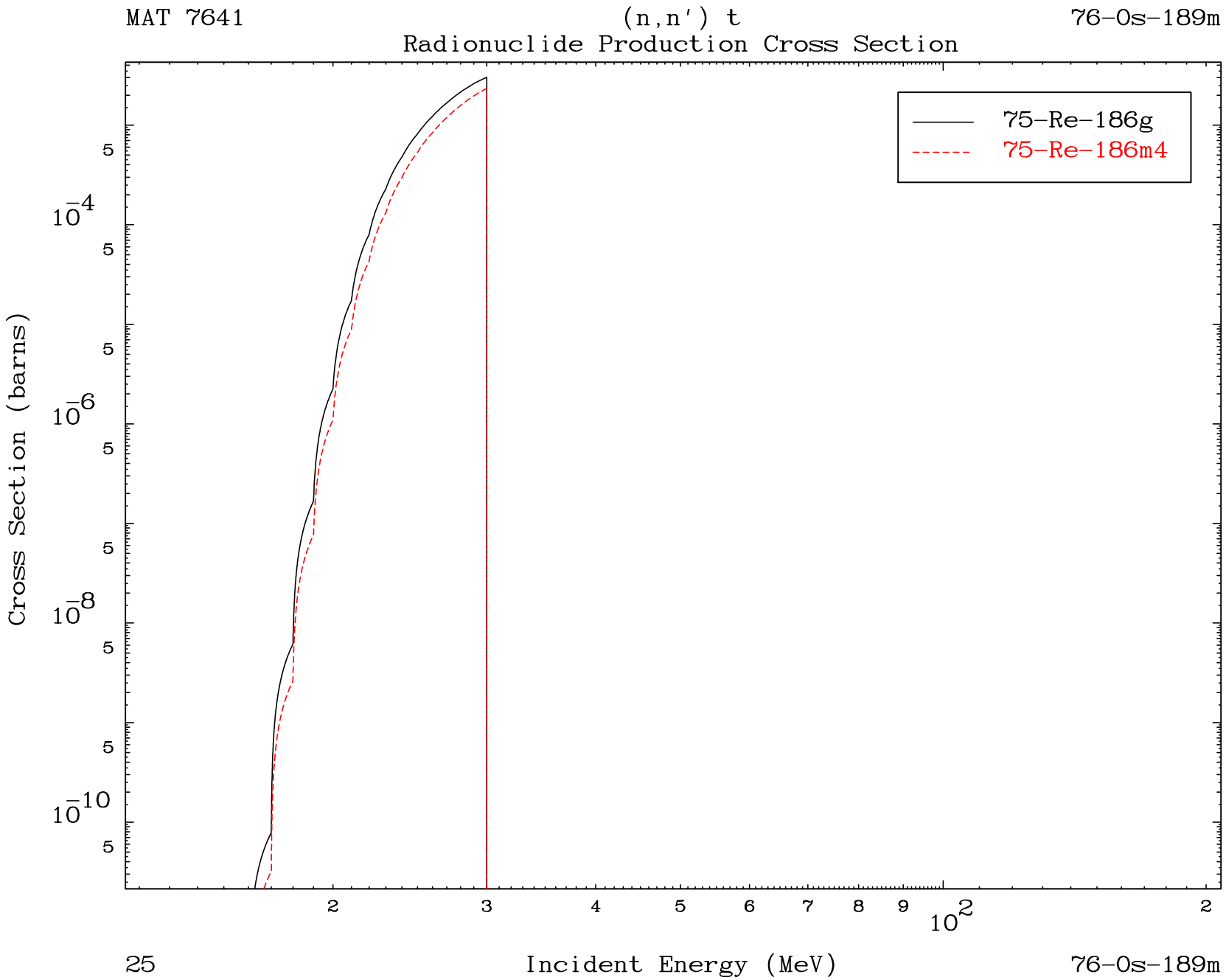
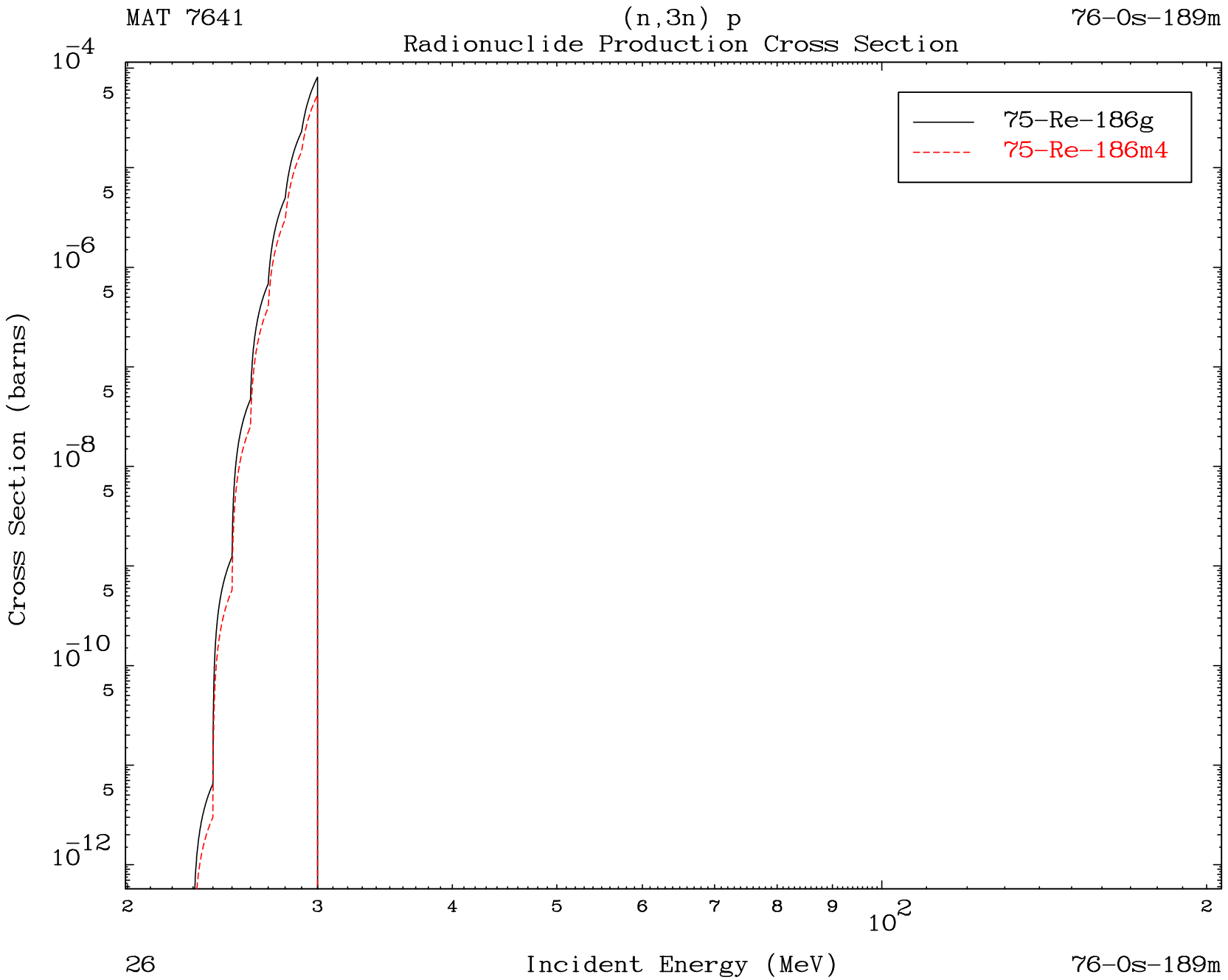
Cross Section (barns)
Incident Energy (MeV)
21
76-0s-189m

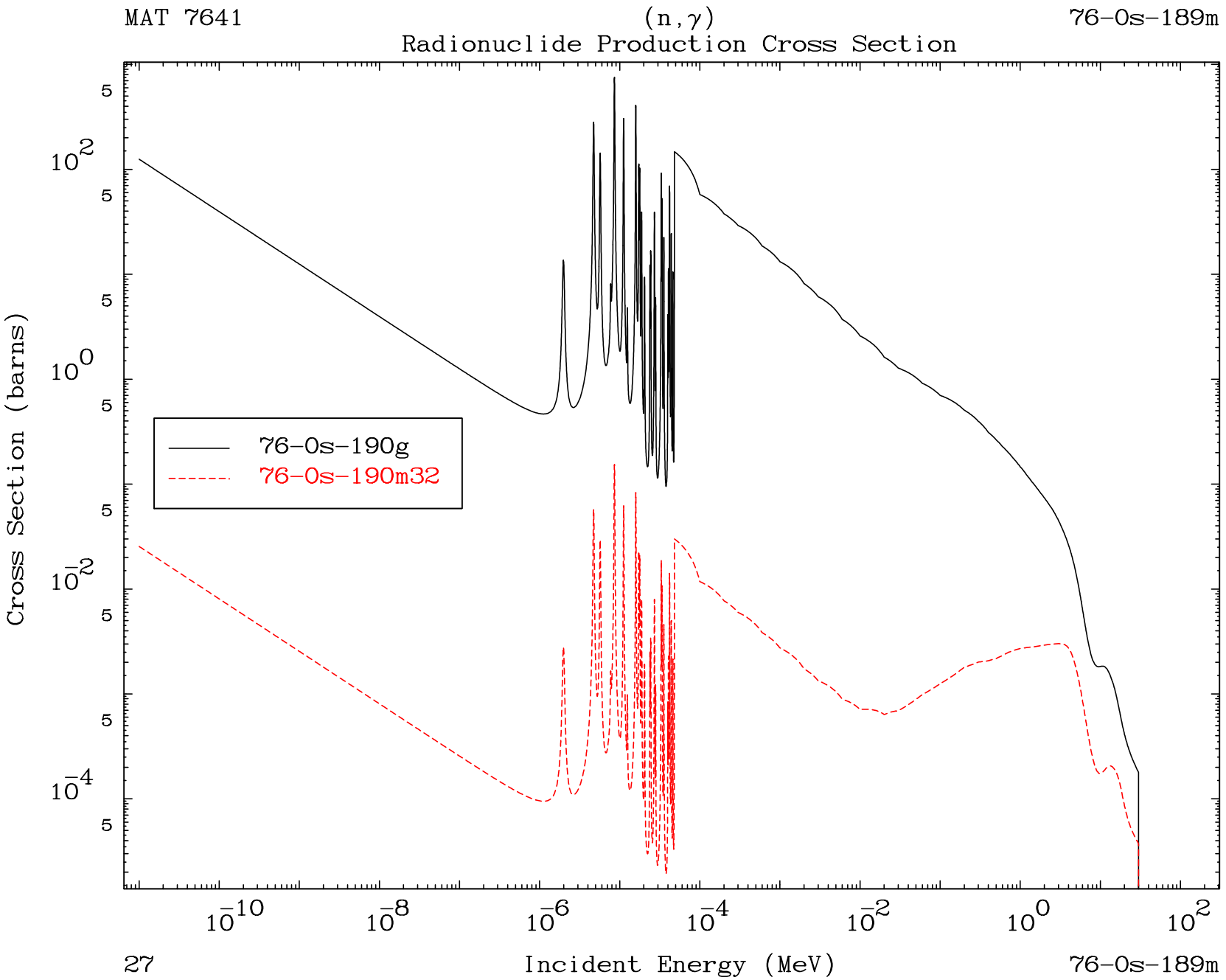

MAT 7641
(n,n') α
76-Os-189m
Radionuclide Production Cross Section
74-W -185g
74-W -185m6
Cross Section (barns)
Incident Energy (MeV)
22
76-Os-189m

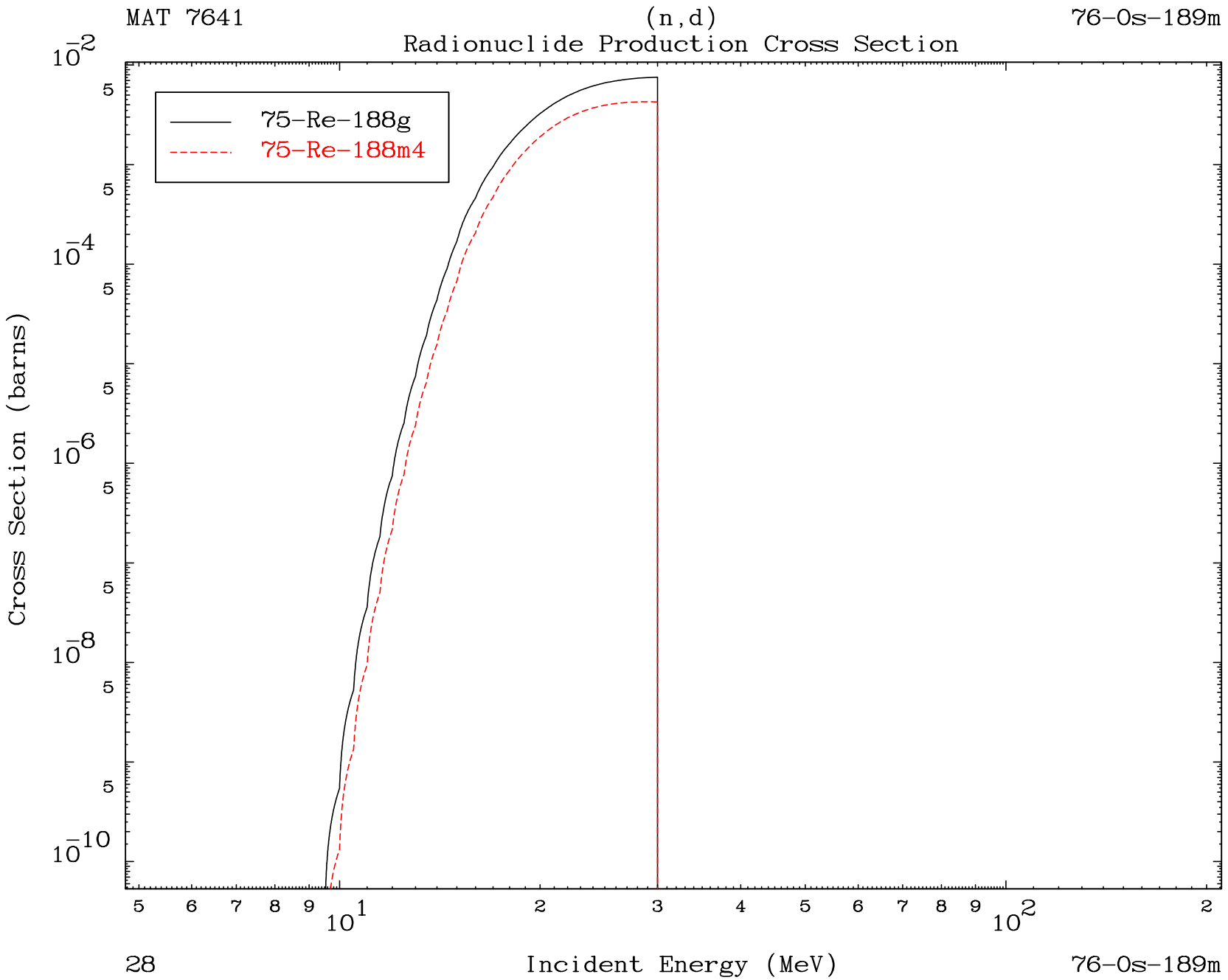

MAT 7641
(n,3n) α
76-Os-189m
Radionuclide Production Cross Section
74-W -183g
74-W -183m7
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
2
3
4
5
6
7
8
9
10^2
2
23
Incident Energy (MeV)
76-Os-189m


MAT 7641
(n,n') p
76-Os-189m
Radionuclide Production Cross Section
75-Re-188g
75-Re-188m4
Cross Section (barns)
Incident Energy (MeV)
24
76-Os-189m


MAT 7641
(n,n') t
76-Os-189m
Radionuclide Production Cross Section
75-Re-186g
75-Re-186m4
Cross Section (barns)
10-4
10-6
10-8
10-10
5
2
3
4
5
6
7
8
9
10 2
2
25
Incident Energy (MeV)
76-Os-189m


MAT 7641
(n,3n) p
76-Os-189m
Radionuclide Production Cross Section
75-Re-186g
75-Re-186m4
Cross Section (barns)
Incident Energy (MeV)
26
76-Os-189m


MAT 7641
(n,γ)
76-0s-189m
Radionuclide Production Cross Section
Cross Section (barns)
10^2
10^0
10^-2
10^-4
5
76-0s-190g
76-0s-190m32
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
27
Incident Energy (MeV)
76-0s-189m


MAT 7641
(n,d)
76-Os-189m
Radionuclide Production Cross Section
75-Re-188g
75-Re-188m4
Cross Section (barns)
Incident Energy (MeV)
28
76-Os-189m