Program EVALPLOT
(Version 2017-1)
by
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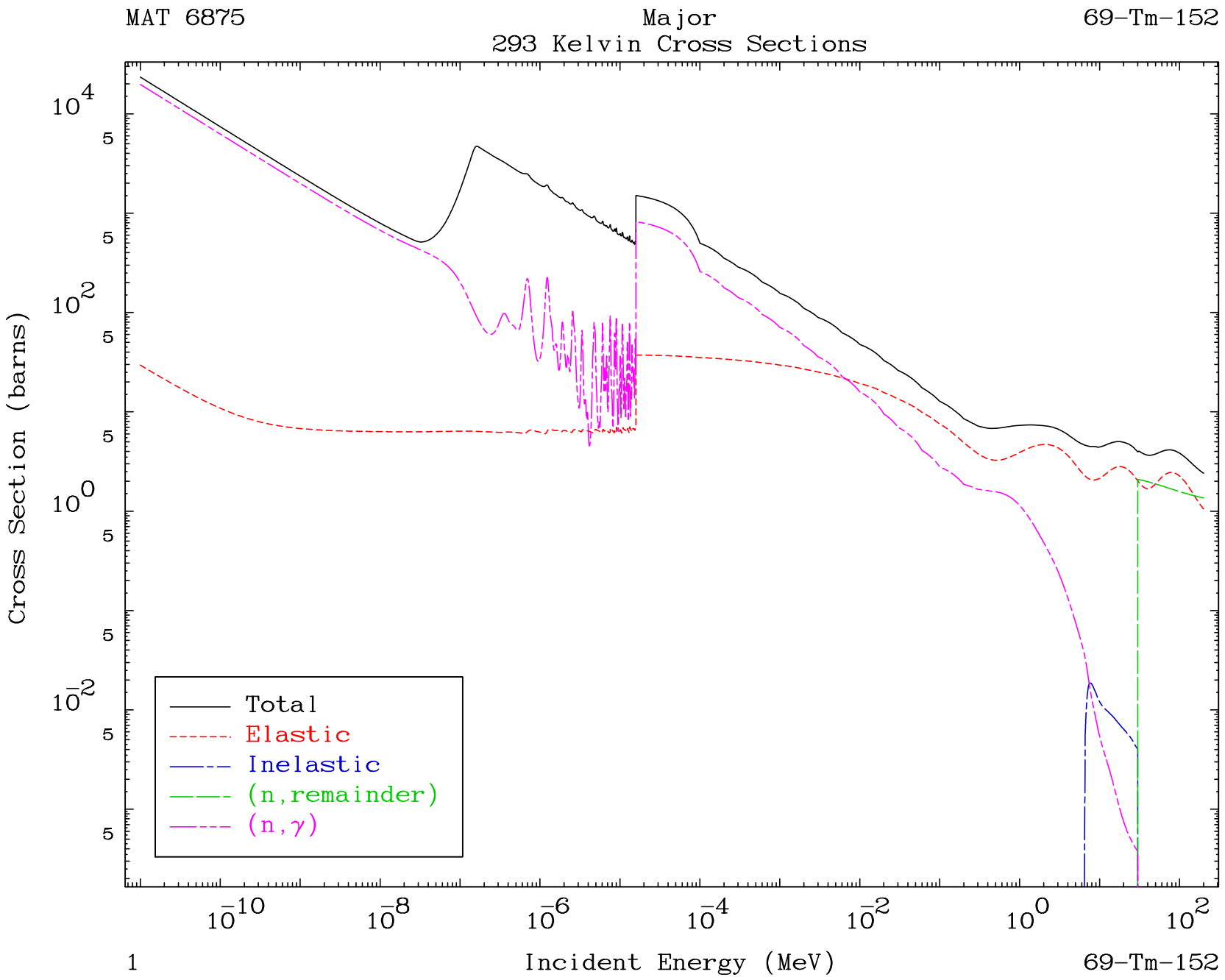
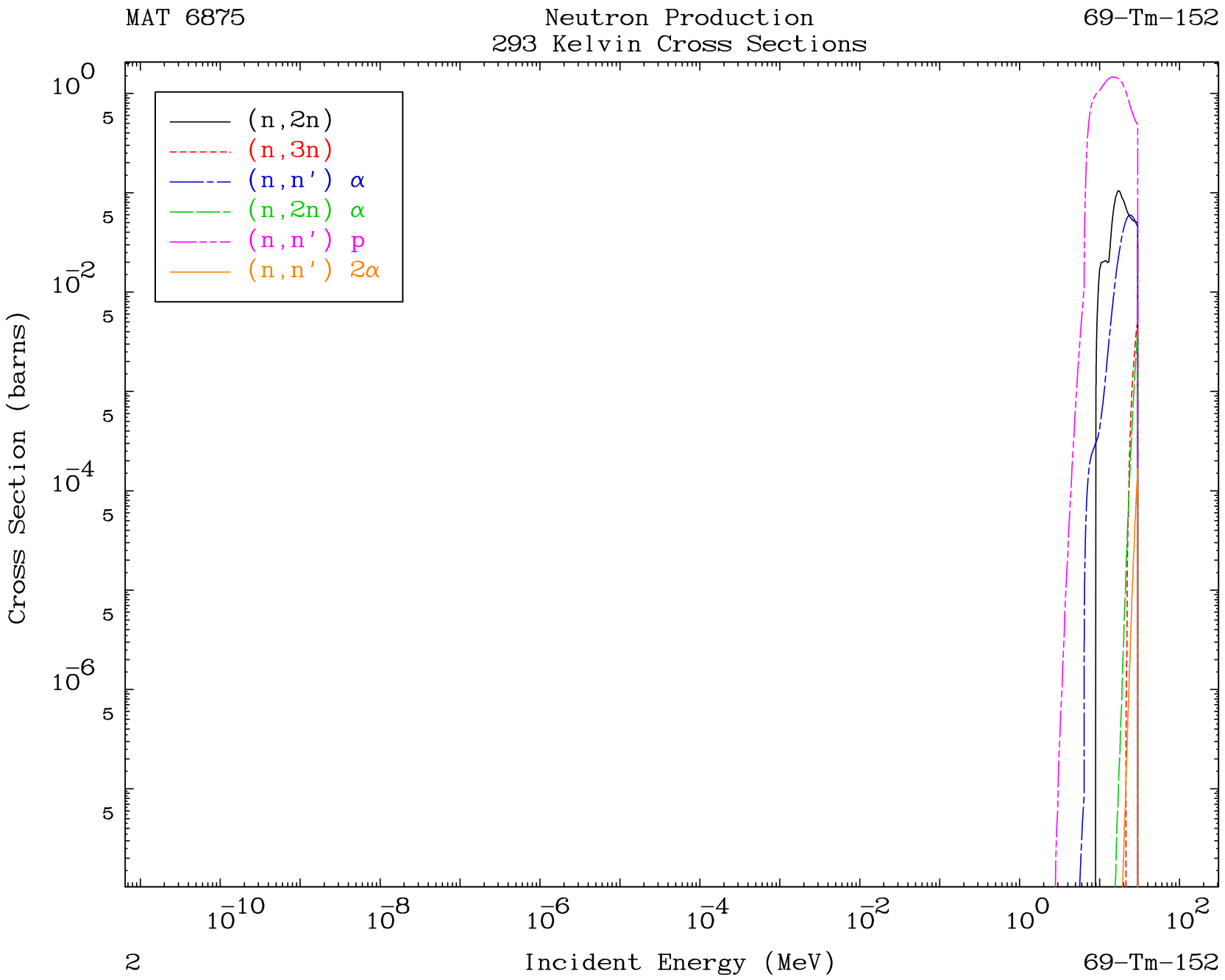
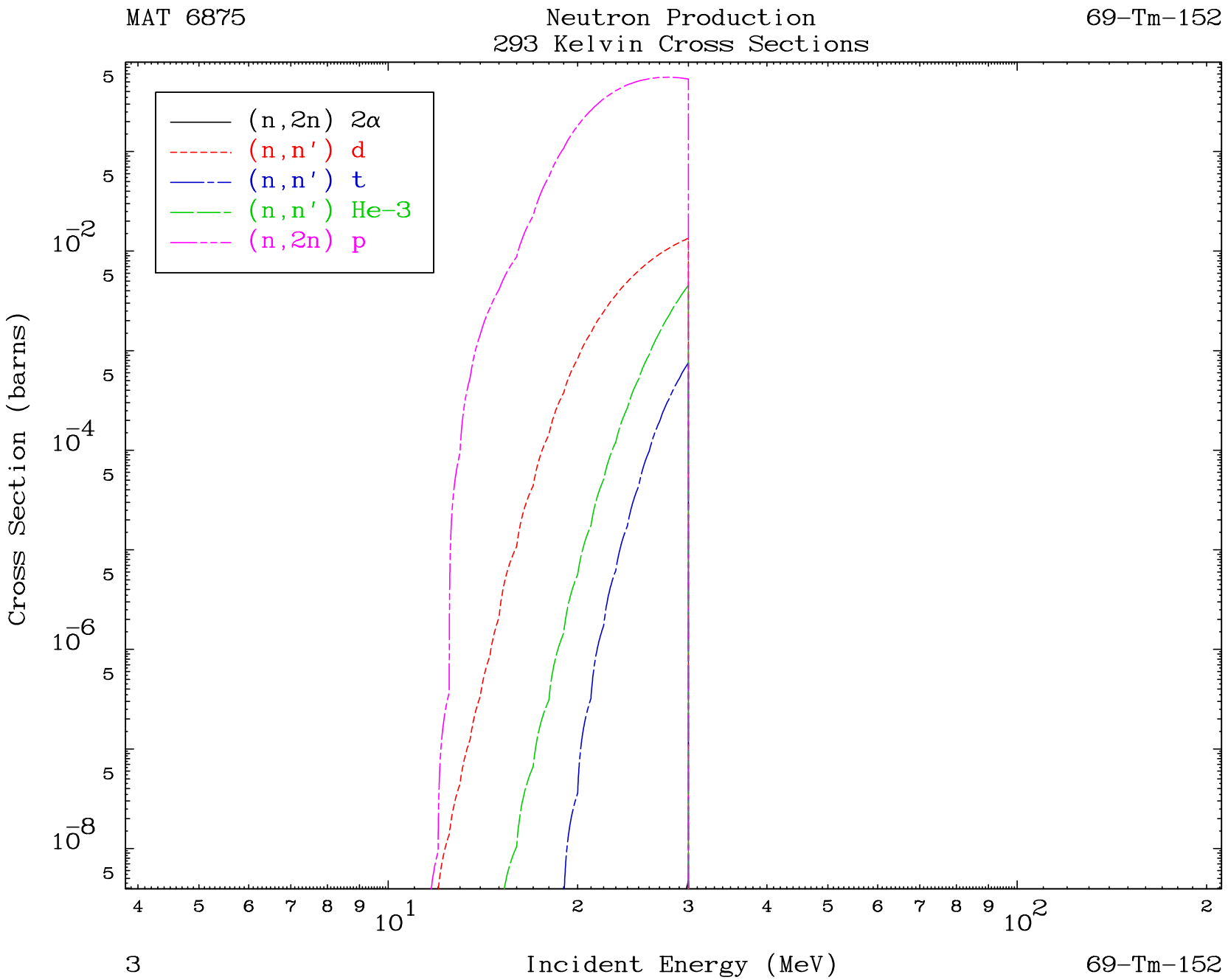
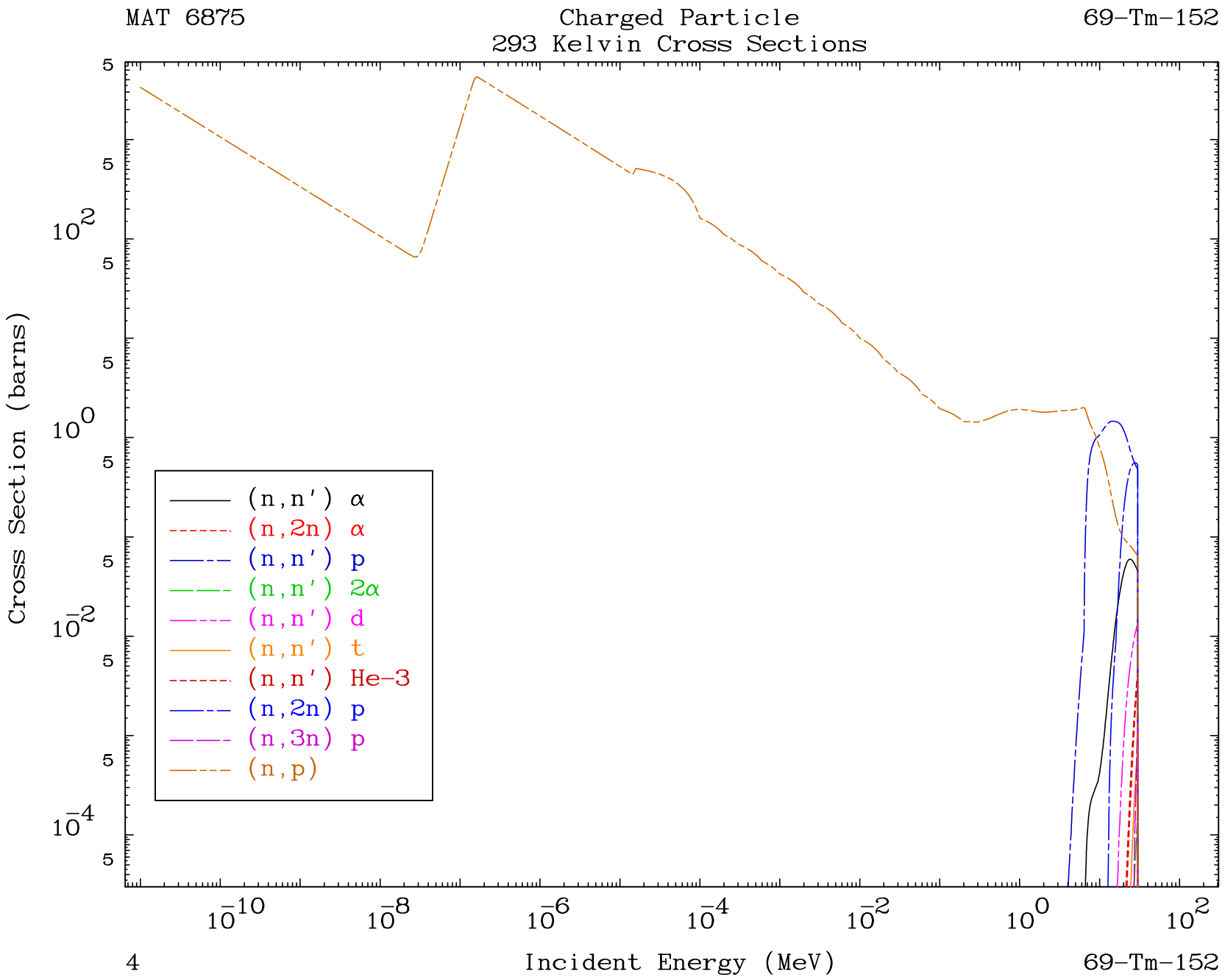
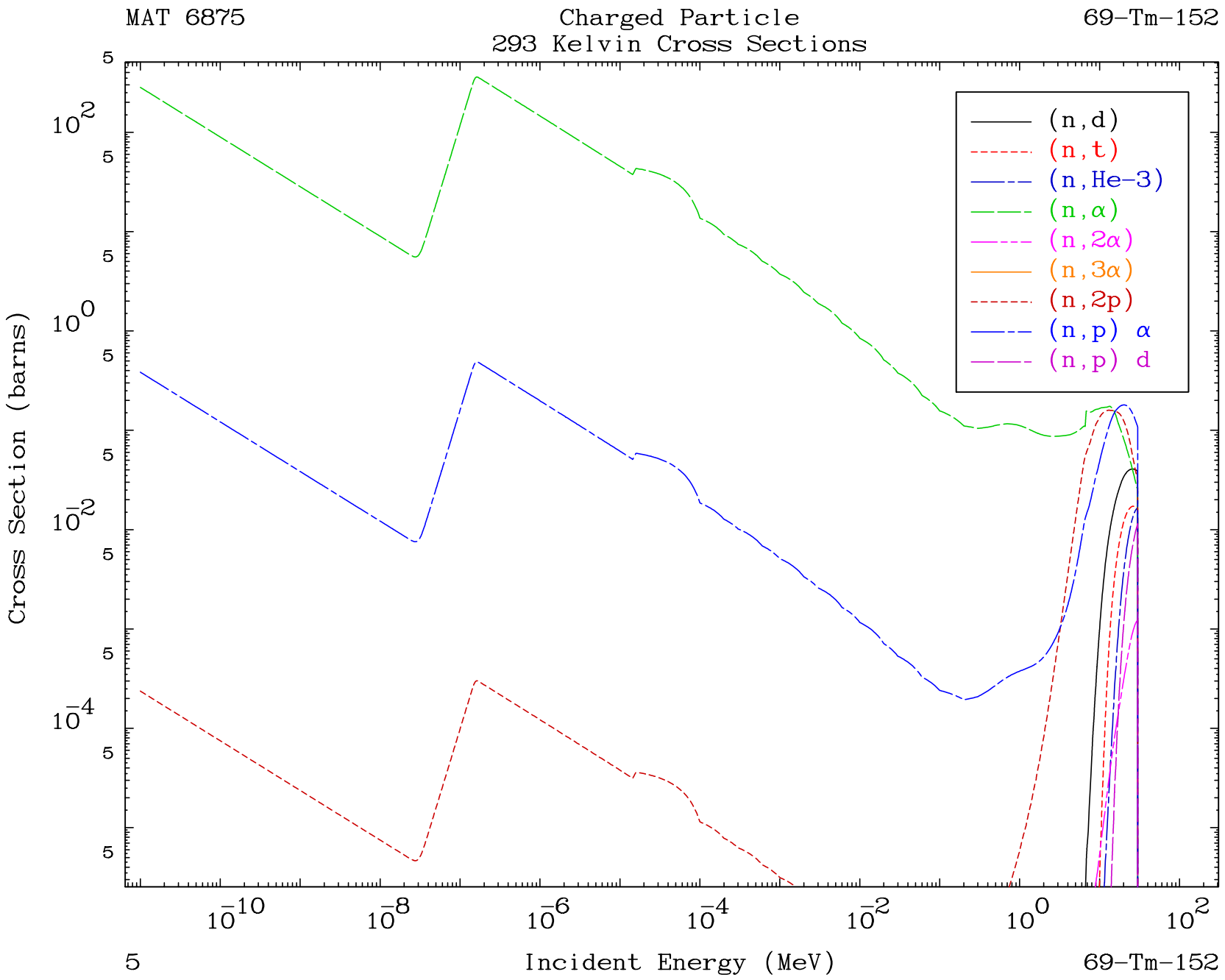
Press Mouse Button to Start

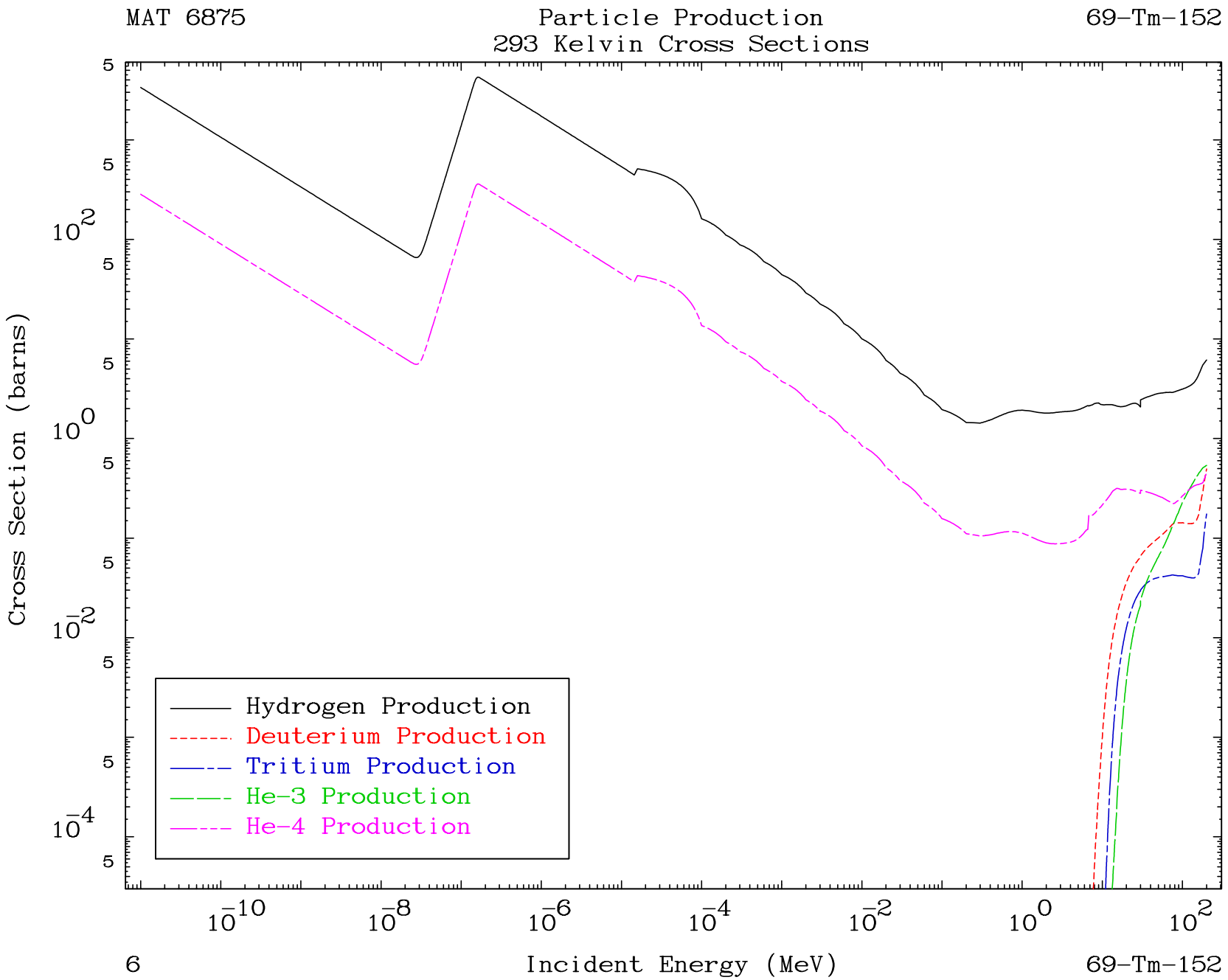

MAT 6875
Major
69-Tm-152
293 Kelvin Cross Sections
Cross Section (barns)
Incident Energy (MeV)
Total
Elastic
Inelastic
(n,remainder)
(n,γ)
1
69-Tm-152

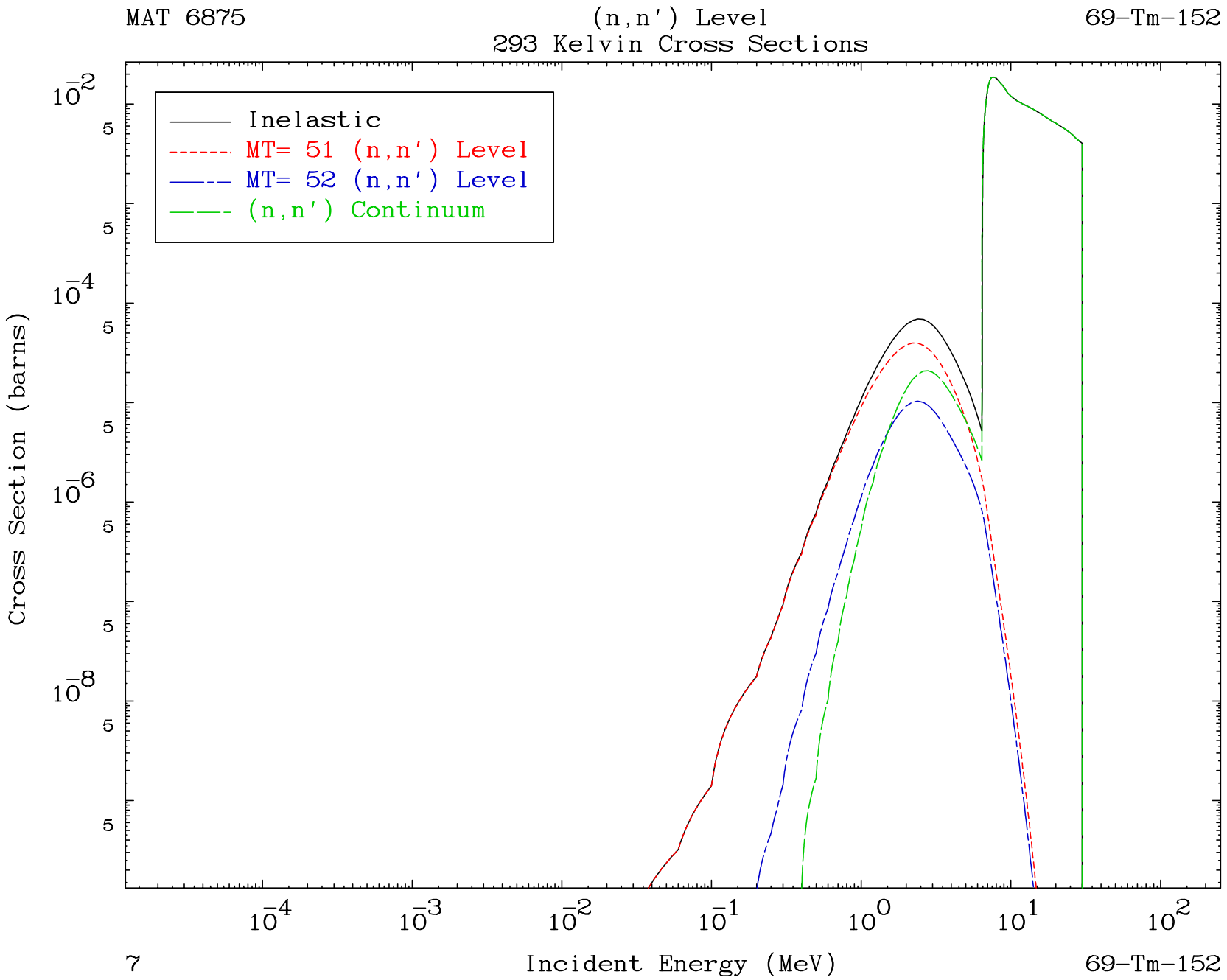

MAT 6875
Neutron Production
293 Kelvin Cross Sections
69-Tm-152
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,n') p
(n,n') 2α
Cross Section (barns)
Incident Energy (MeV)
69-Tm-152
2

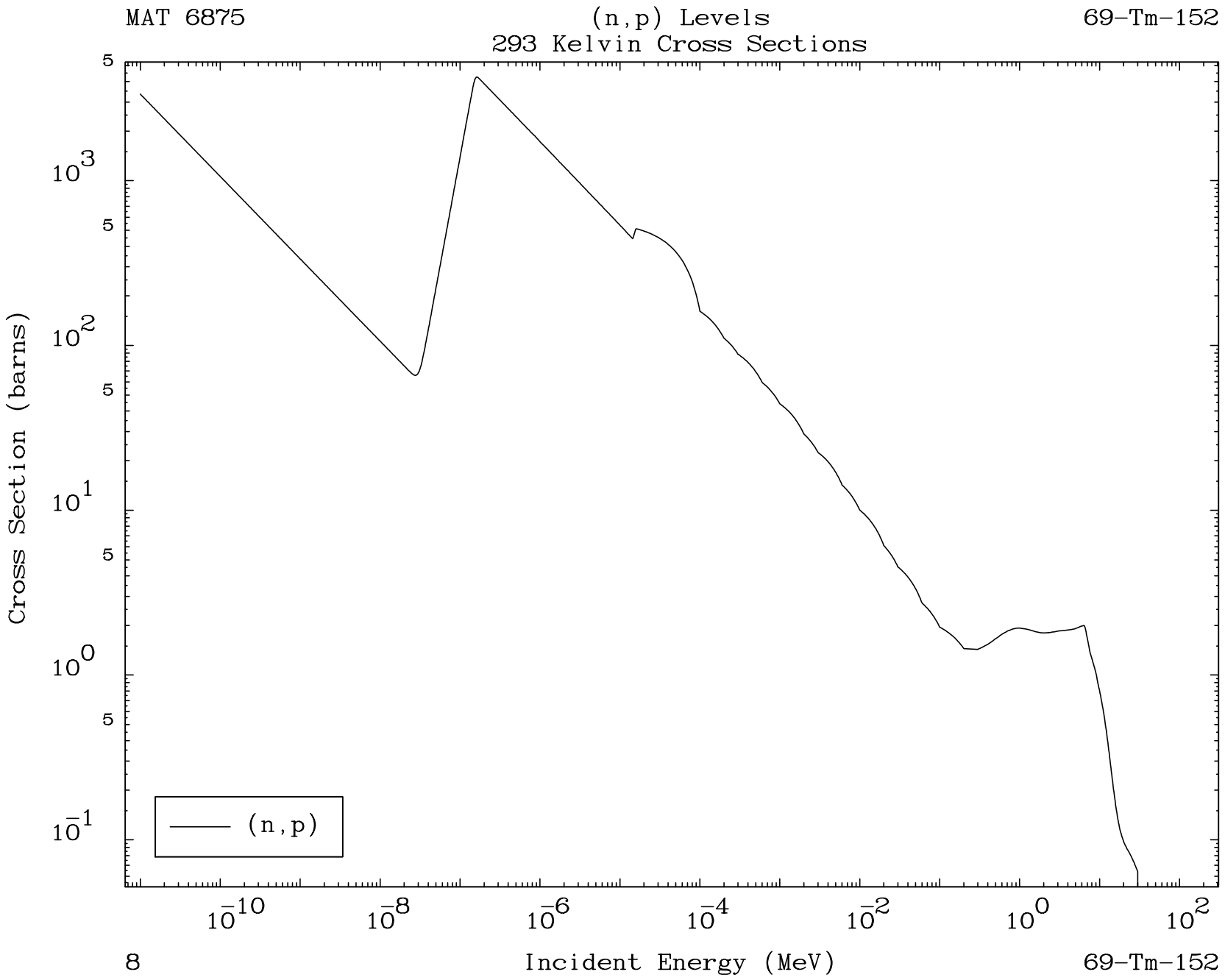

MAT 6875
Neutron Production
293 Kelvin Cross Sections
69-Tm-152
(n,2n) 2α
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
Cross Section (barns)
Incident Energy (MeV)
3
69-Tm-152

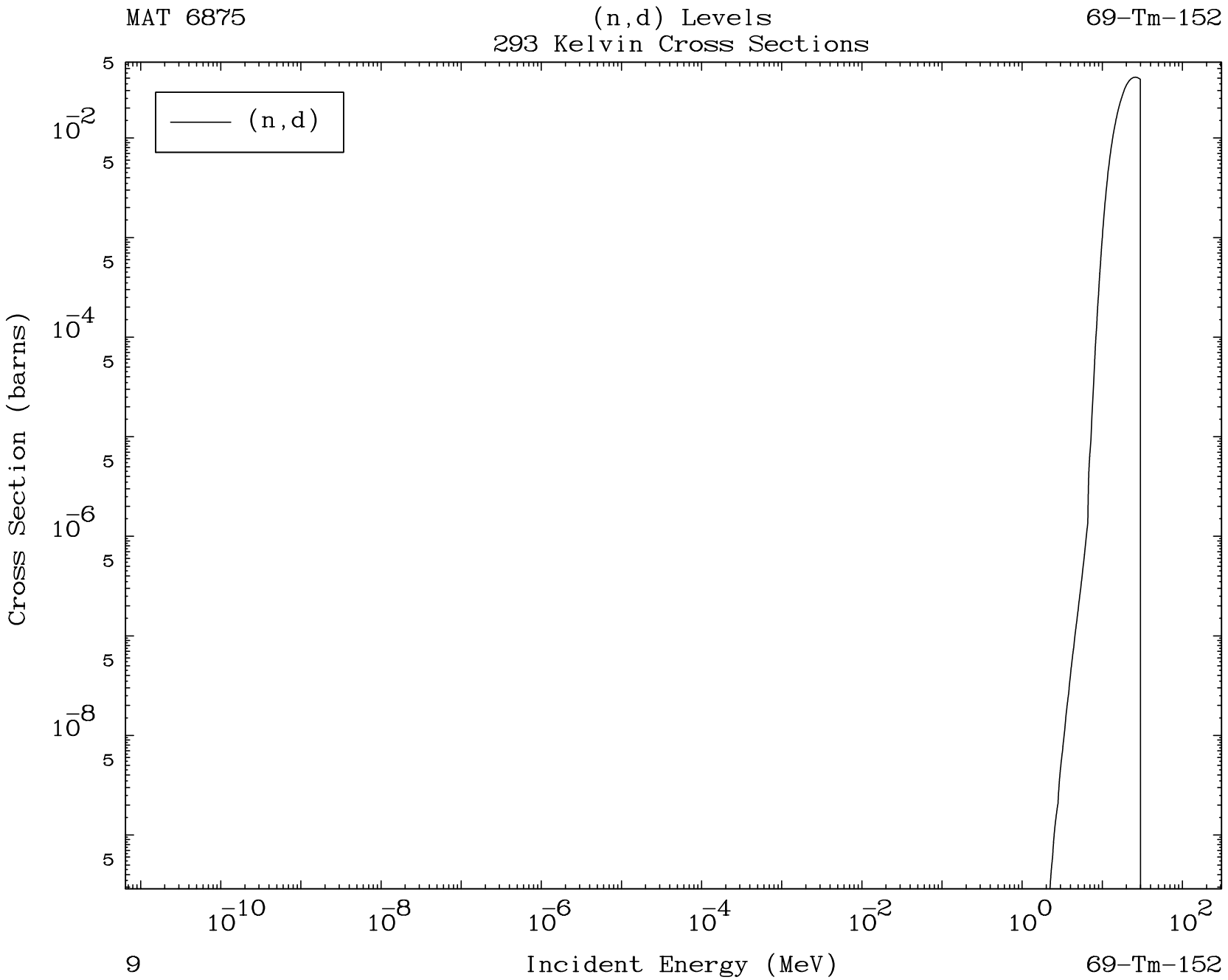

MAT 6875
Charged Particle
293 Kelvin Cross Sections
69-Tm-152
Cross Section (barns)
Incident Energy (MeV)
(n,n') α
(n,2n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
(n,3n) p
(n,p)
4
69-Tm-152

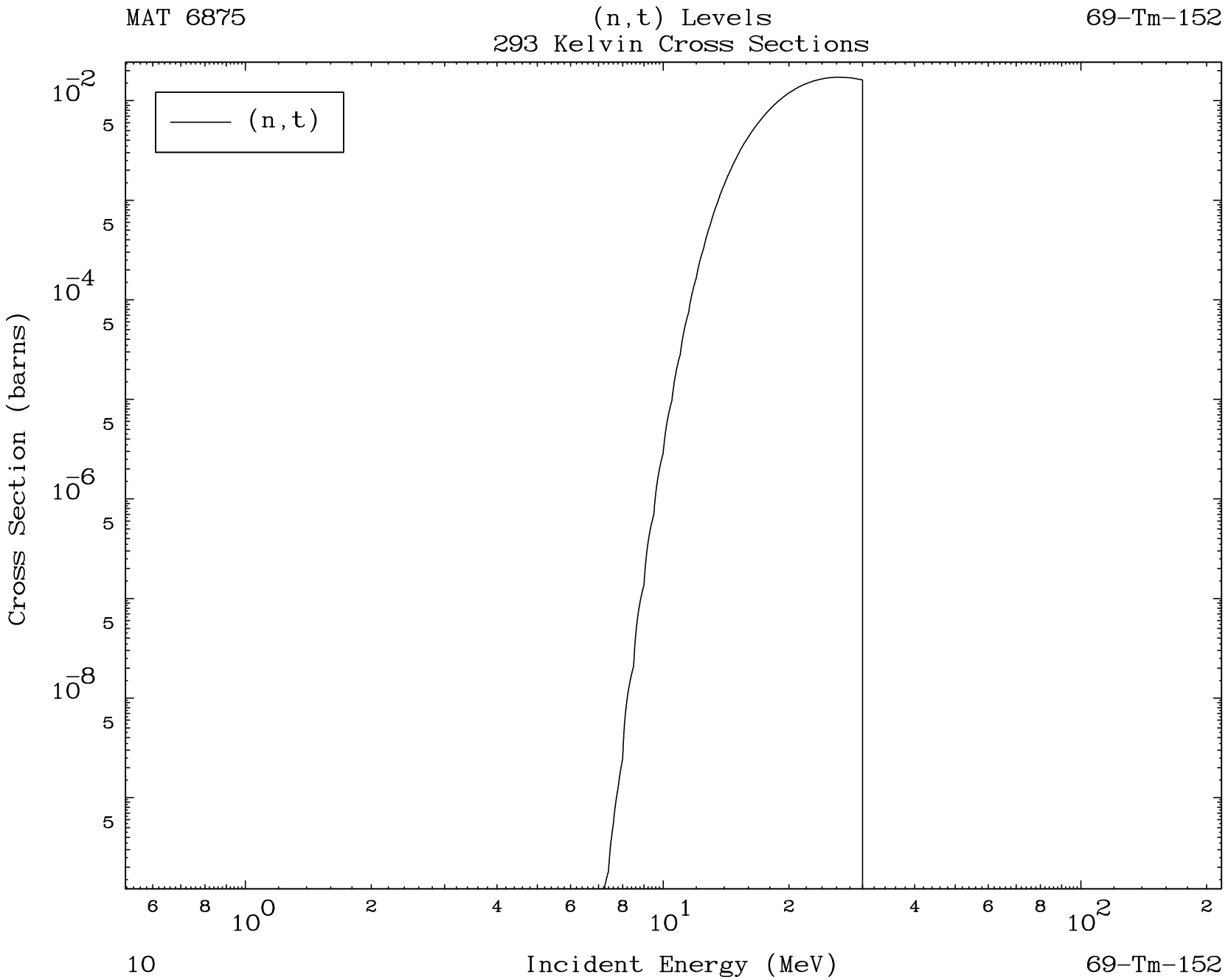

MAT 6875
Charged Particle
293 Kelvin Cross Sections
69-Tm-152
Cross Section (barns)
Incident Energy (MeV)
69-Tm-152
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,3α)
(n,2p)
(n,p) α
(n,p) d

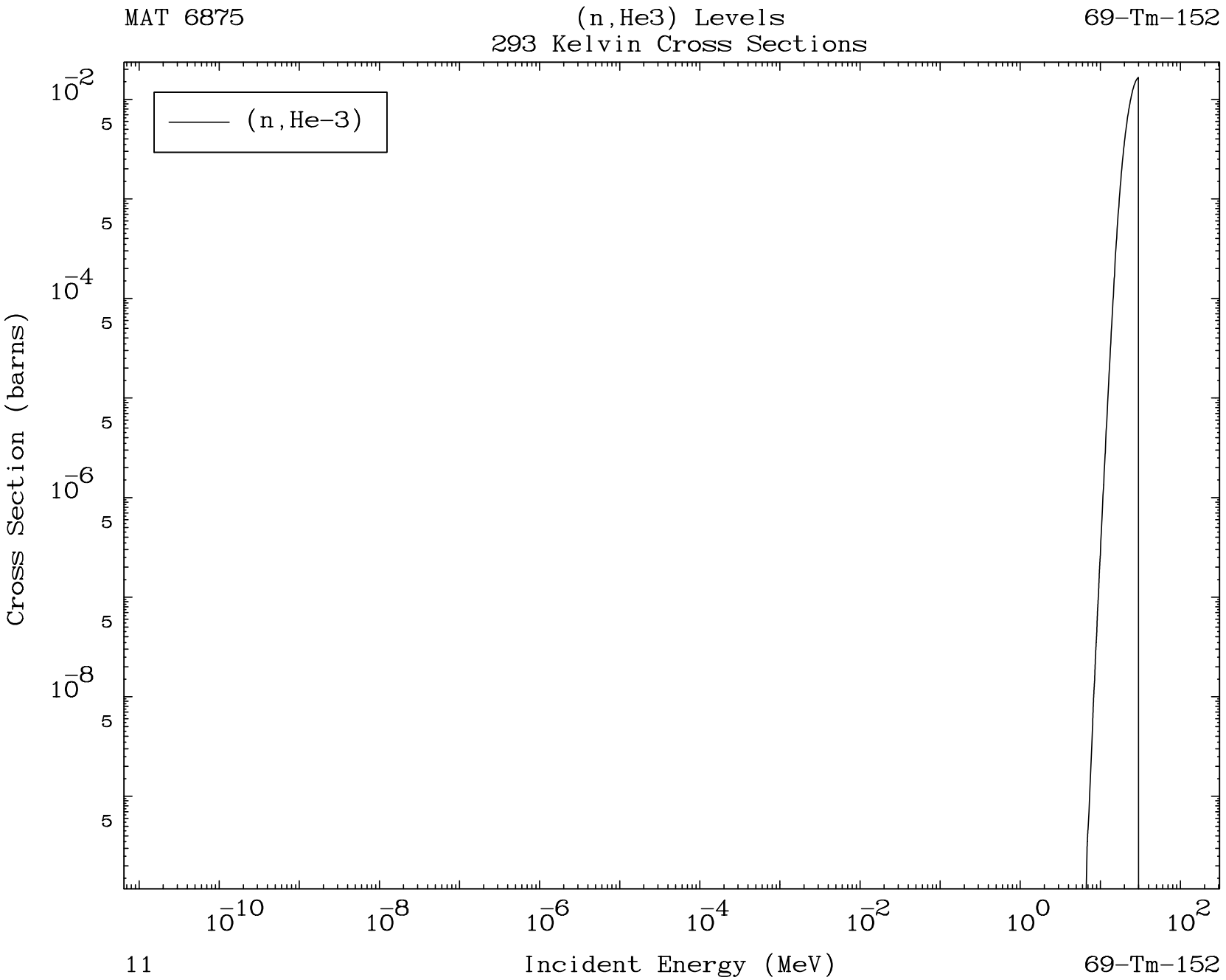

MAT 6875
Particle Production
293 Kelvin Cross Sections
69-Tm-152
Cross Section (barns)
Incident Energy (MeV)
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production
6
69-Tm-152

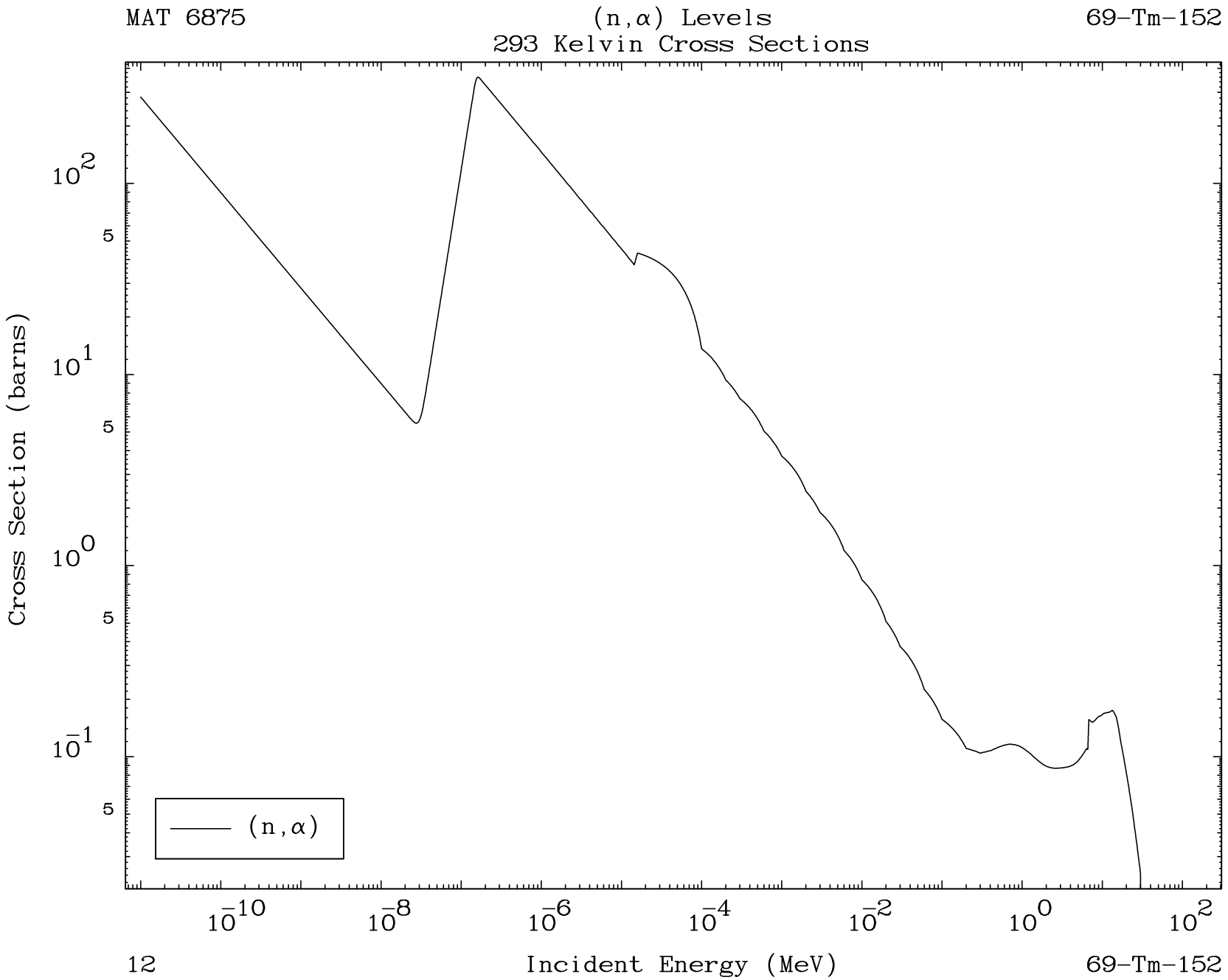

MAT 6875
(n,n') Level
69-Tm-152
293 Kelvin Cross Sections
Inelastic
MT= 51 (n,n') Level
MT= 52 (n,n') Level
(n,n') Continuum
Cross Section (barns)
Incident Energy (MeV)
7
69-Tm-152

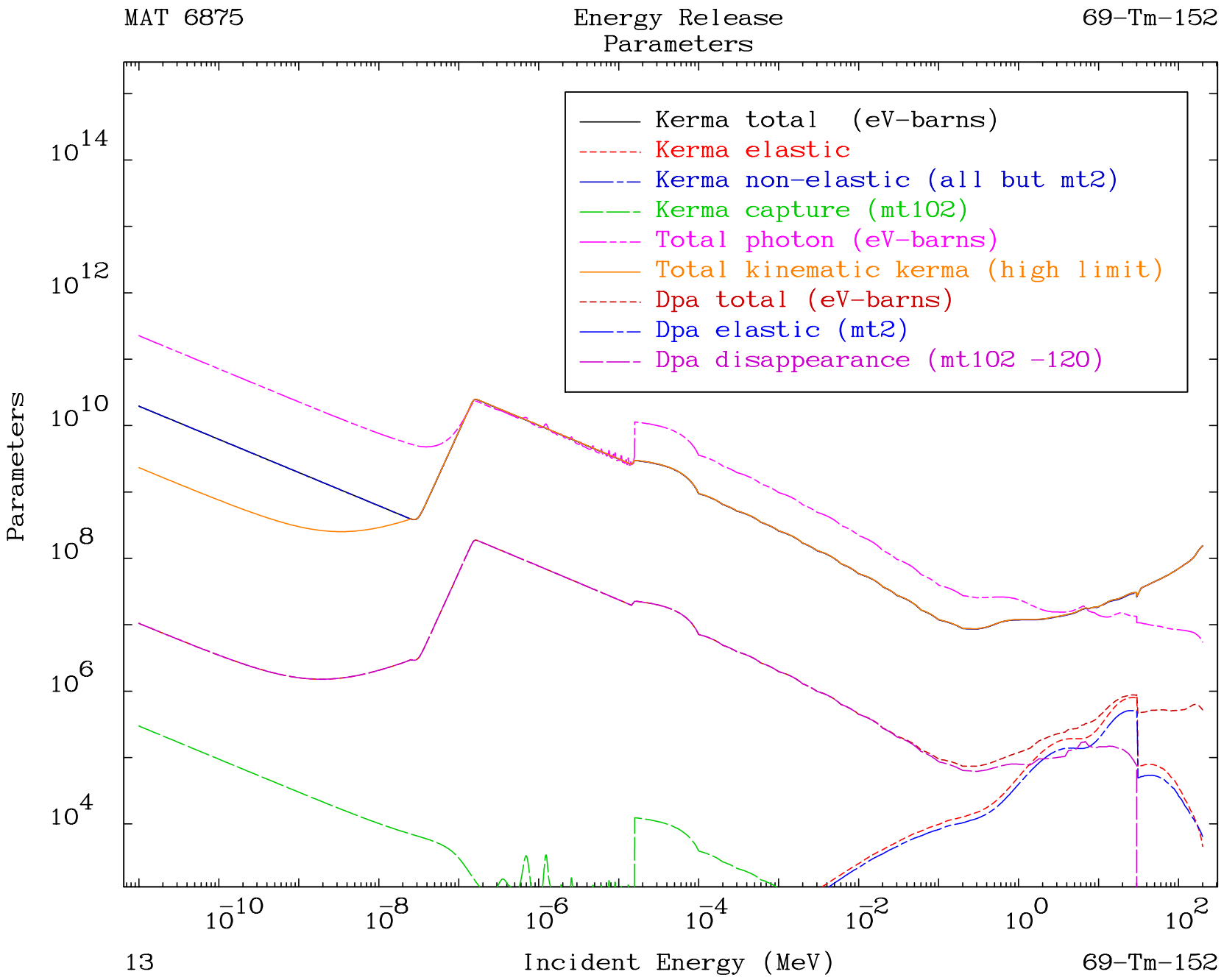

MAT 6875
(n,p) Levels
69-Tm-152
293 Kelvin Cross Sections
Cross Section (barns)
10^3
10^2
10^1
10^0
10^-1
(n,p)
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
Incident Energy (MeV)
8
69-Tm-152

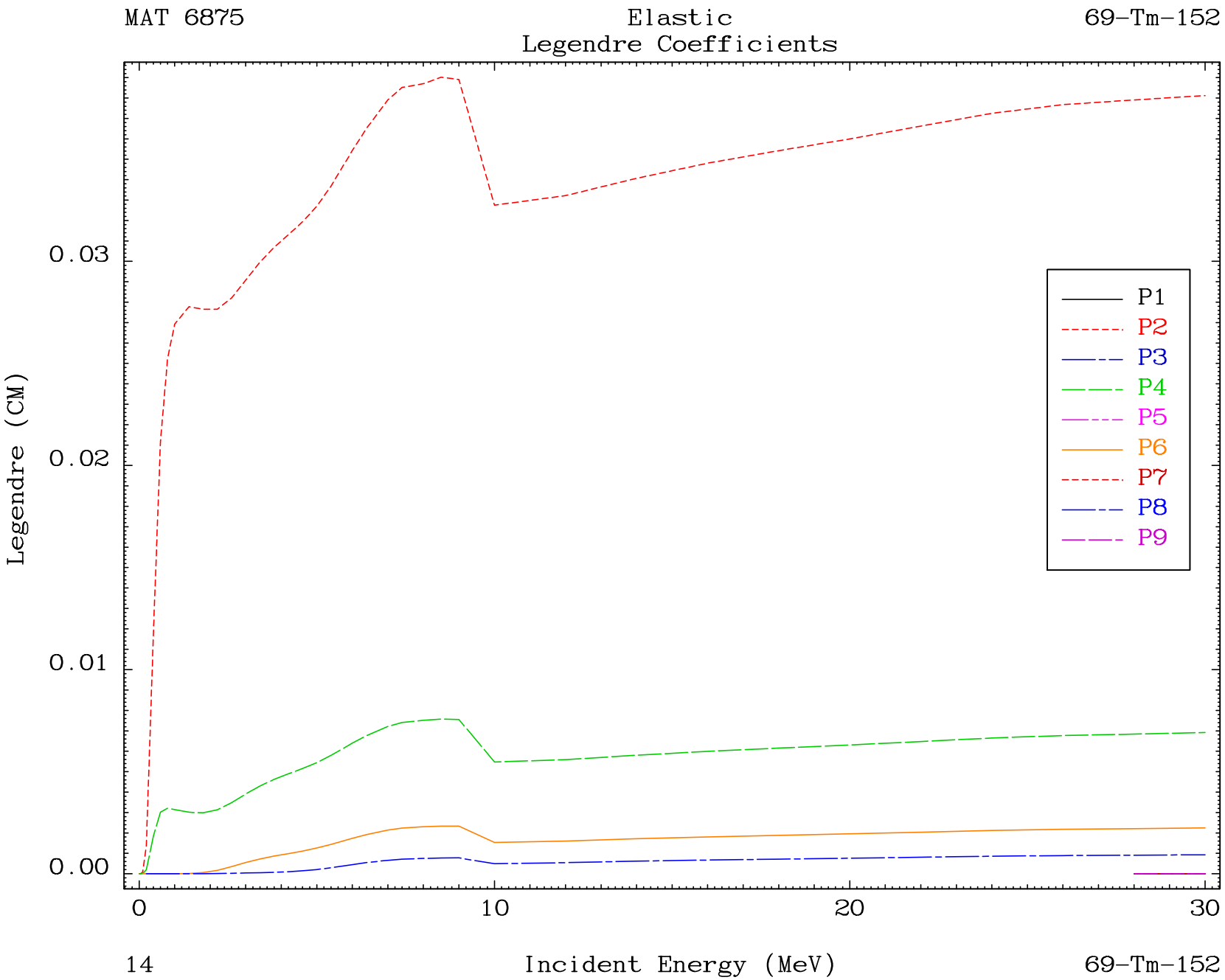

MAT 6875
(n,d) Levels
69-Tm-152
293 Kelvin Cross Sections
(n,d)
Cross Section (barns)
Incident Energy (MeV)
9
69-Tm-152

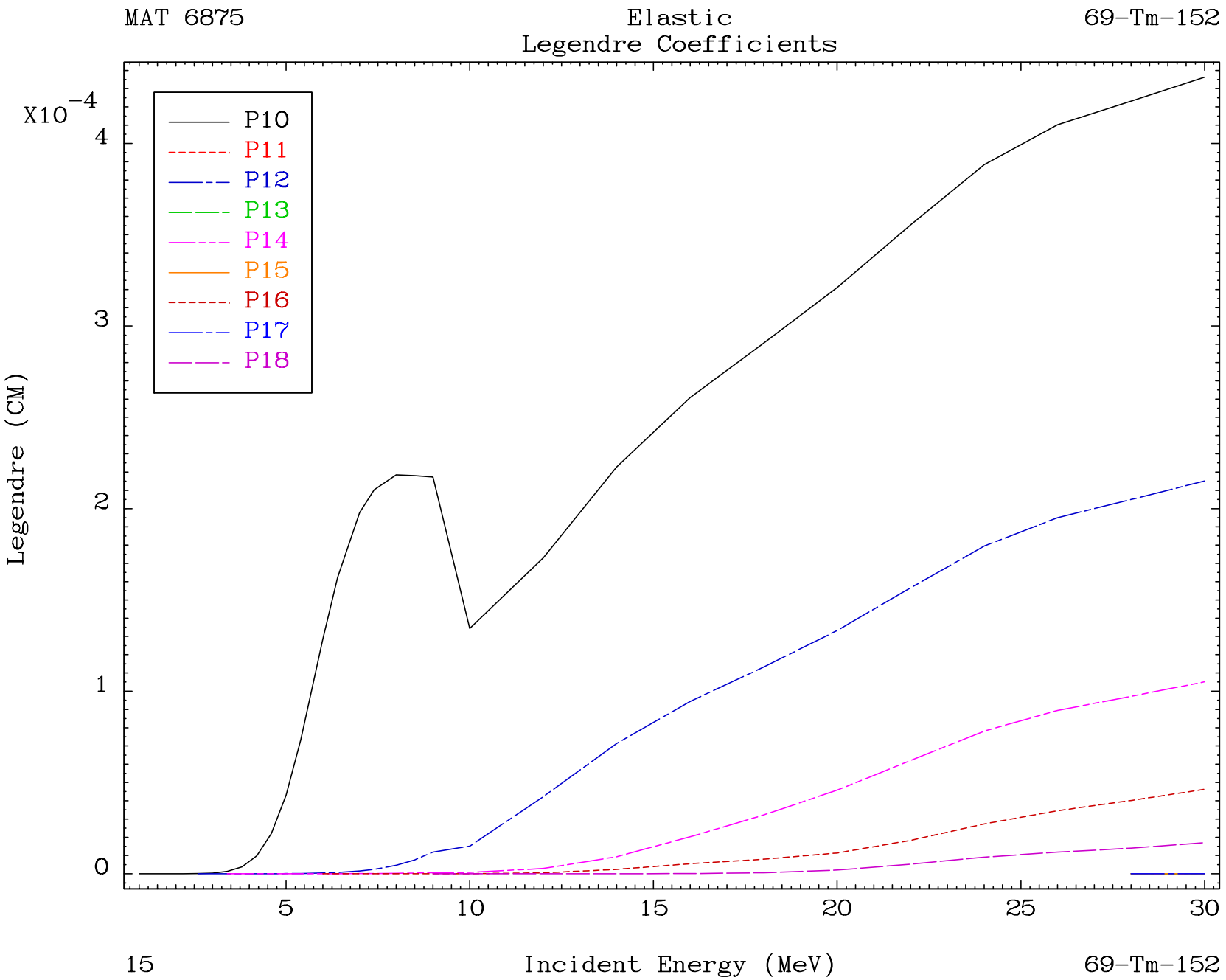

MAT 6875
(n,t) Levels
69-Tm-152
293 Kelvin Cross Sections
(n,t)
Cross Section (barns)
Incident Energy (MeV)
69-Tm-152

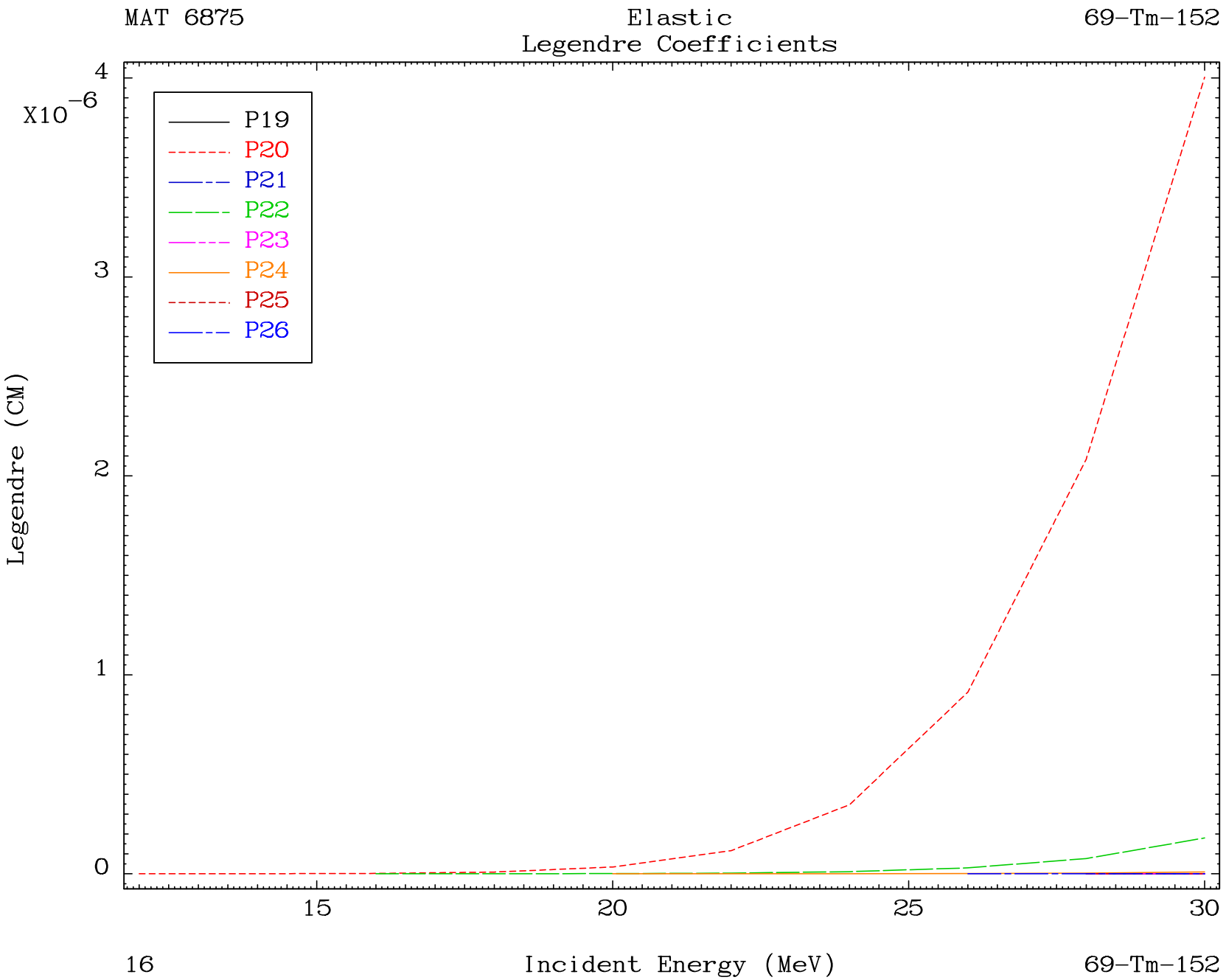

MAT 6875
(n,He3) Levels
69-Tm-152
293 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
Incident Energy (MeV)
11
69-Tm-152

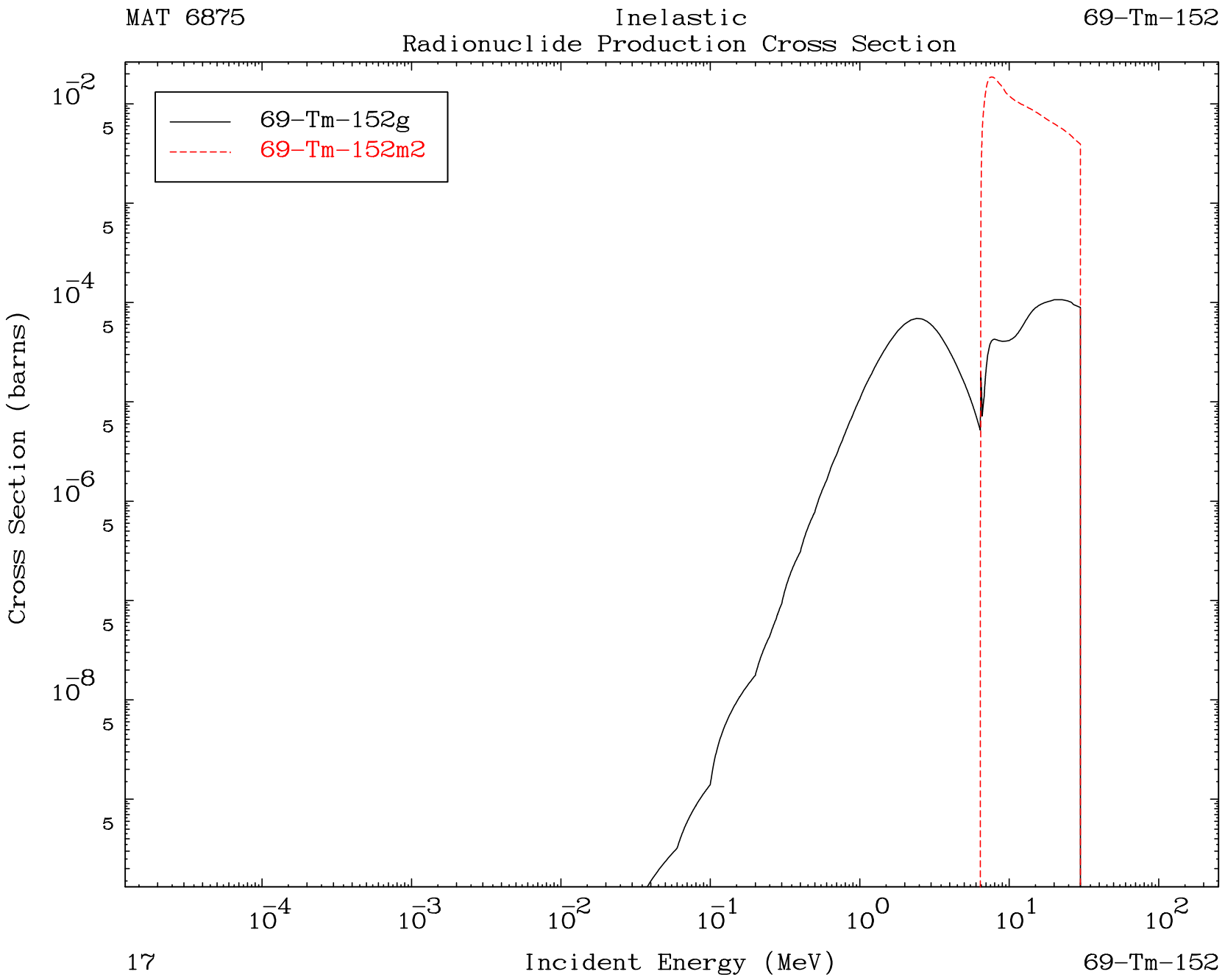

MAT 6875
(n,α) Levels
69-Tm-152
293 Kelvin Cross Sections
Cross Section (barns)
10^2
5
10^1
5
10^0
5
10^-1
5
(n,α)
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
12
Incident Energy (MeV)
69-Tm-152

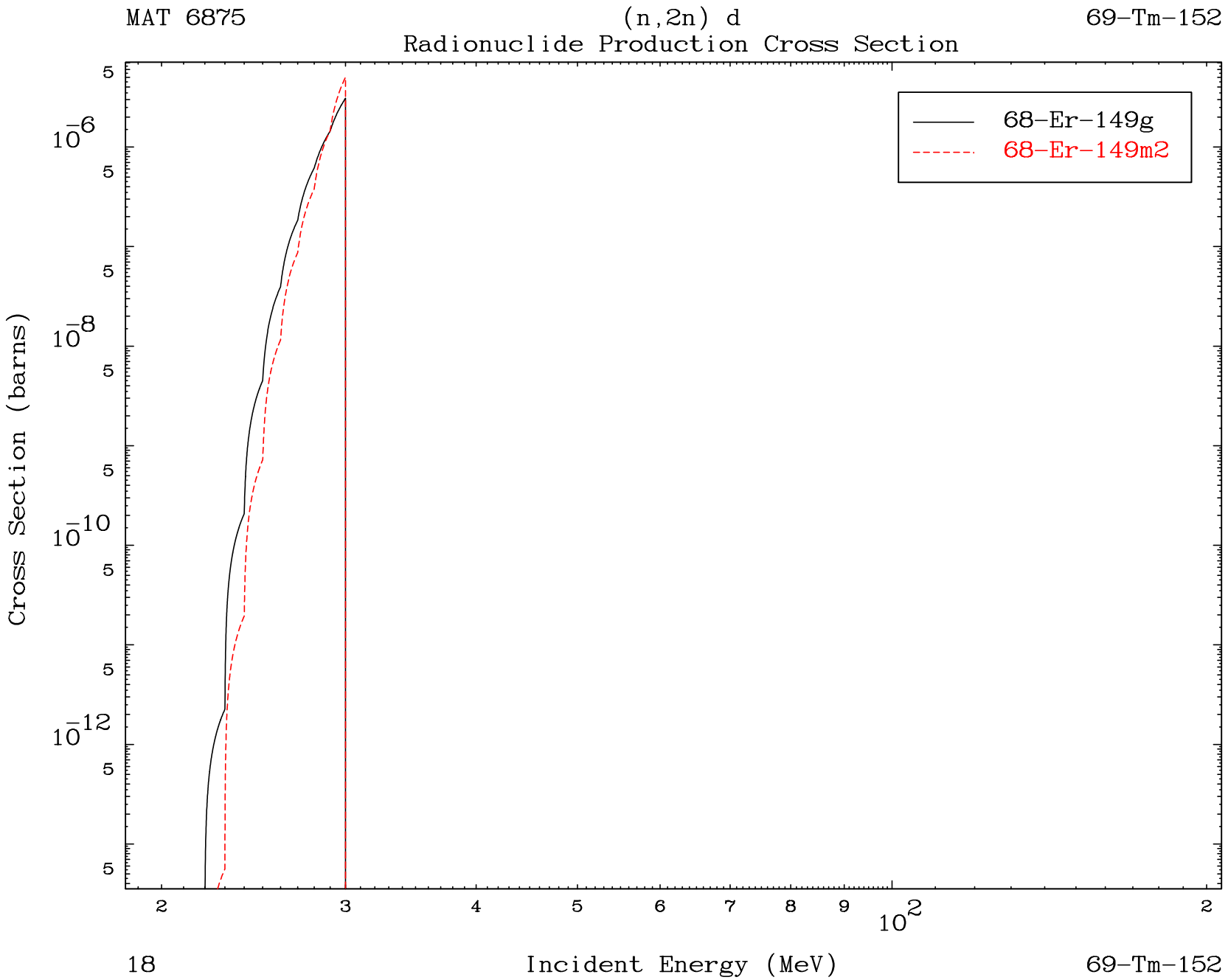

MAT 6875
Energy Release
Parameters
69-Tm-152
Kerma total (eV-barns)
Kerma elastic
Kerma non-elastic (all but mt2)
Kerma capture (mt102)
Total photon (eV-barns)
Total kinematic kerma (high limit)
Dpa total (eV-barns)
Dpa elastic (mt2)
Dpa disappearance (mt102 -120)
Parameters
10^{14}
10^{12}
10^{10}
10^{8}
10^{6}
10^{4}
10^{-10}
10^{-8}
10^{-6}
10^{-4}
10^{-2}
10^{0}
10^{2}
13
Incident Energy (MeV)
69-Tm-152

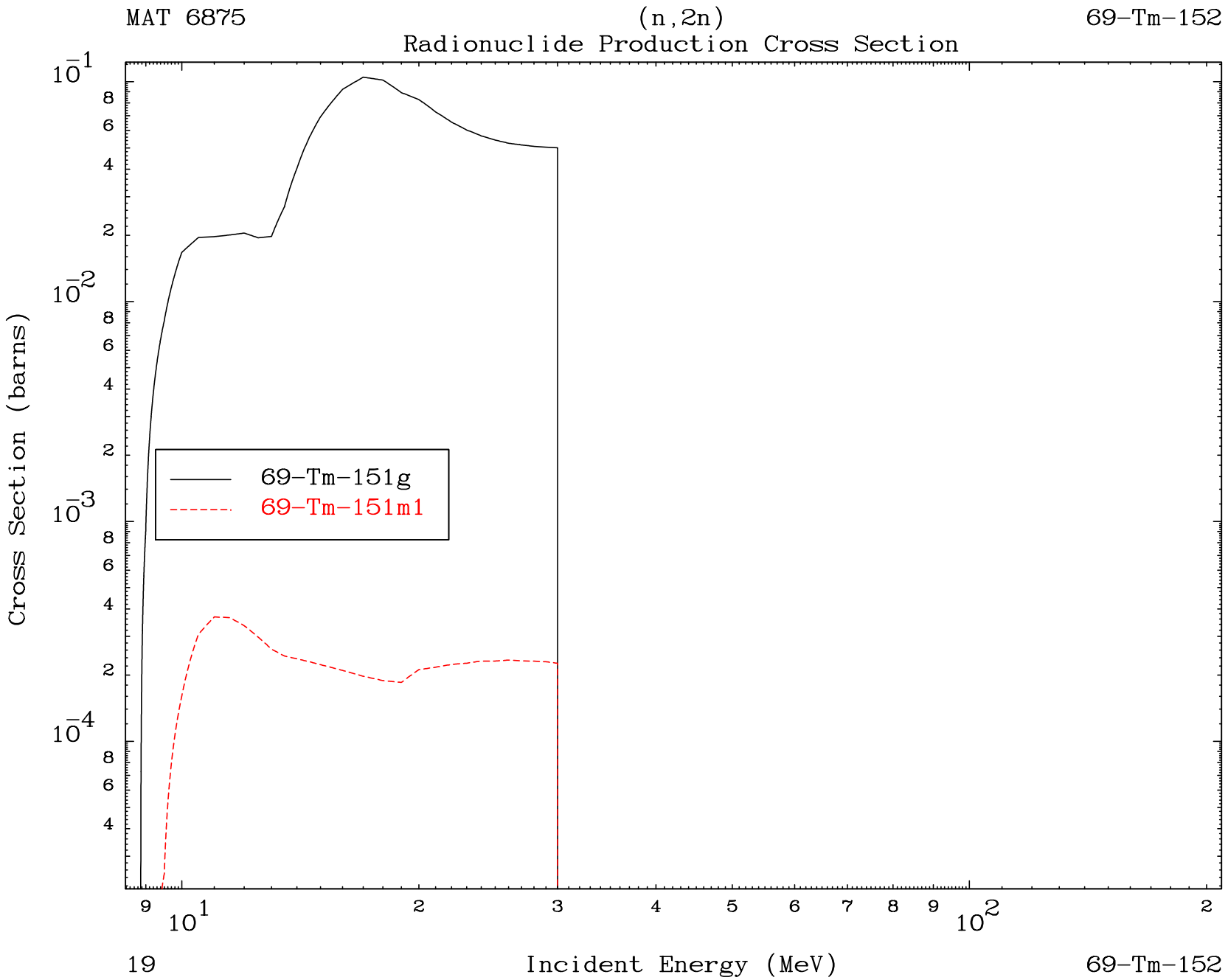

MAT 6875
Elastic
Legendre Coefficients
69-Tm-152
0.03
0.02
0.01
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
10
20
30
14
Incident Energy (MeV)
69-Tm-152

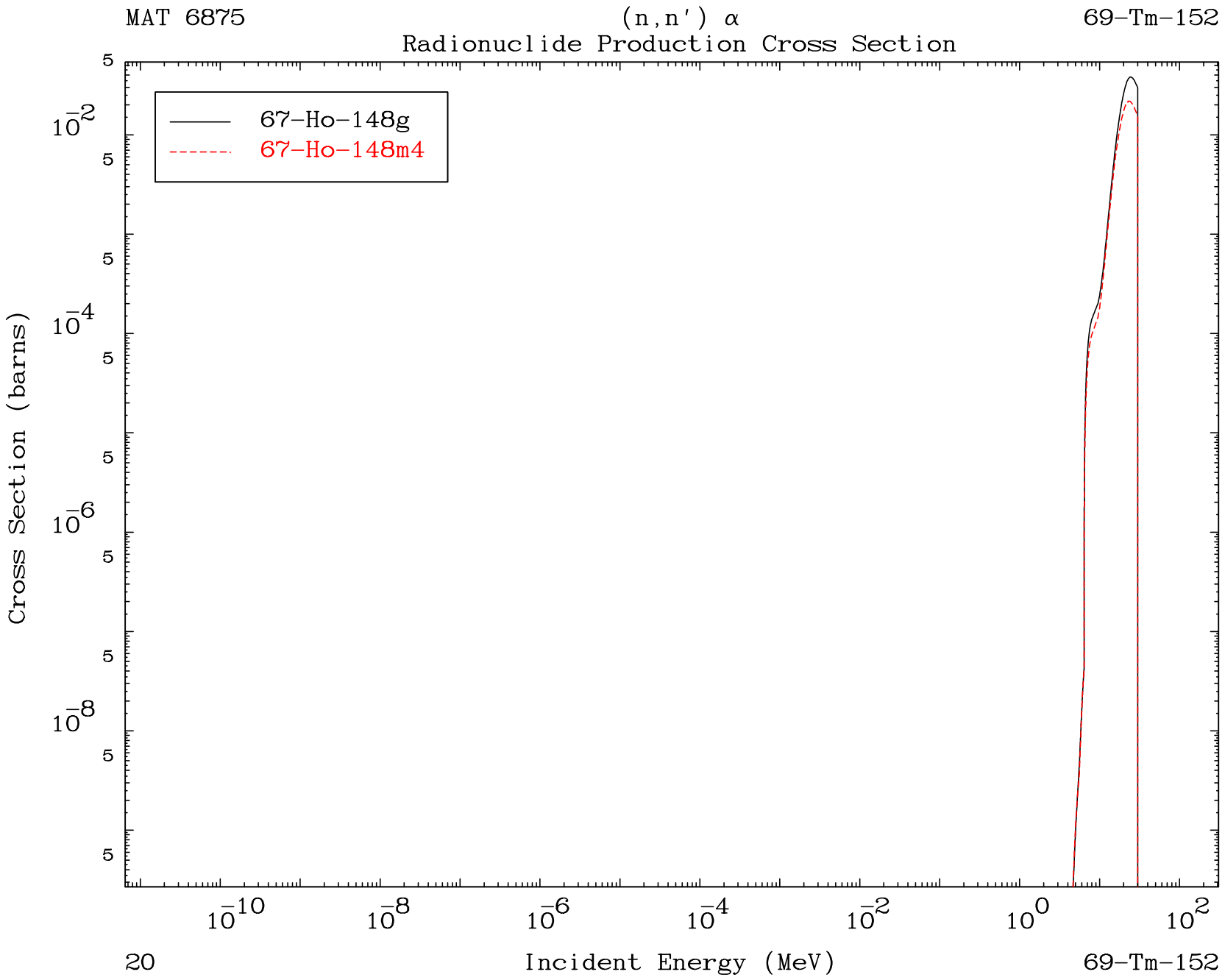

MAT 6875
Elastic
Legendre Coefficients
69-Tm-152
X10 -4
4
3
2
1
0
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
5
10
15
20
25
30
15
Incident Energy (MeV)
69-Tm-152

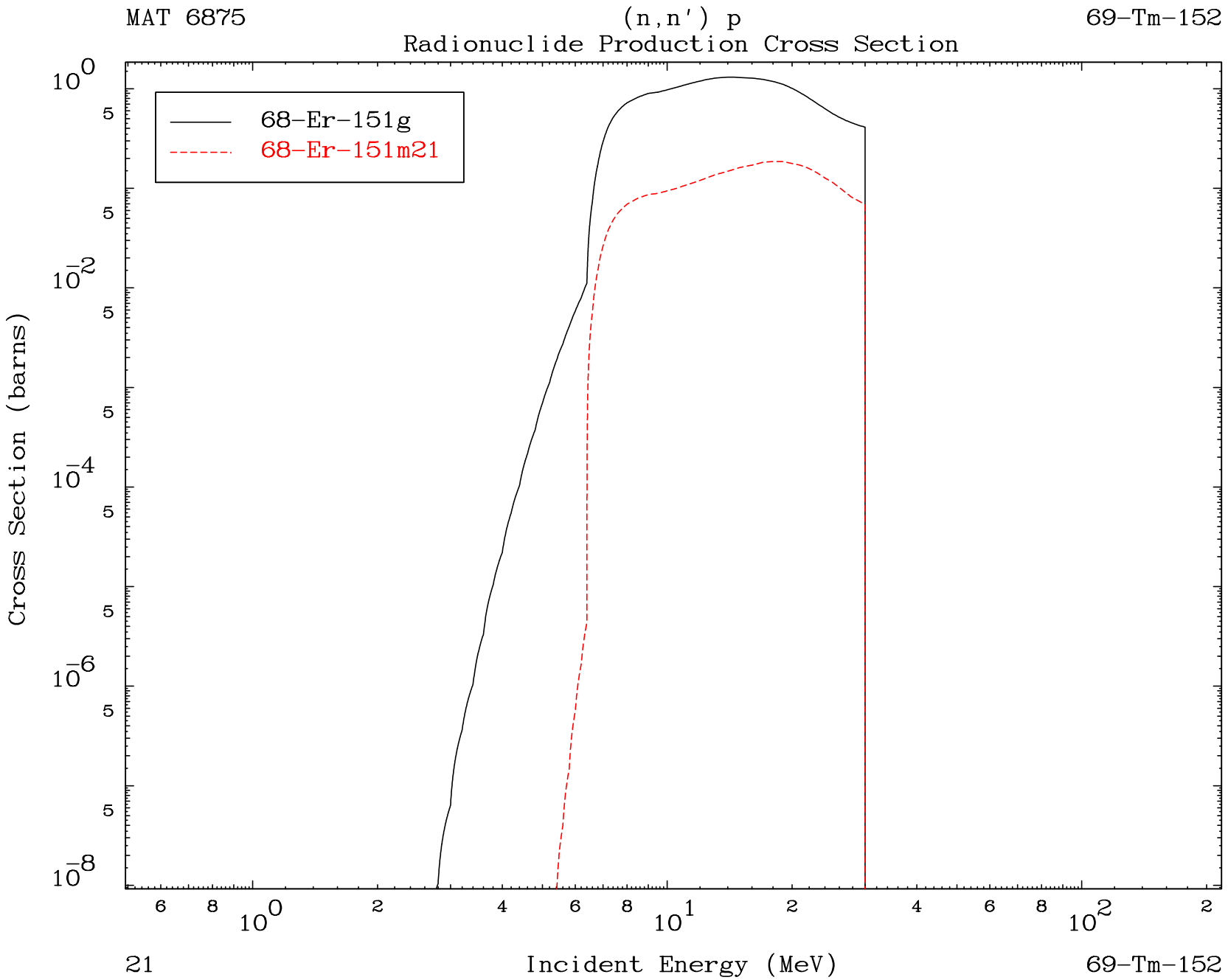

MAT 6875
Elastic
Legendre Coefficients
69-Tm-152
X10 −6
4
3
2
1
0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
15
20
25
30
16
Incident Energy (MeV)
69-Tm-152

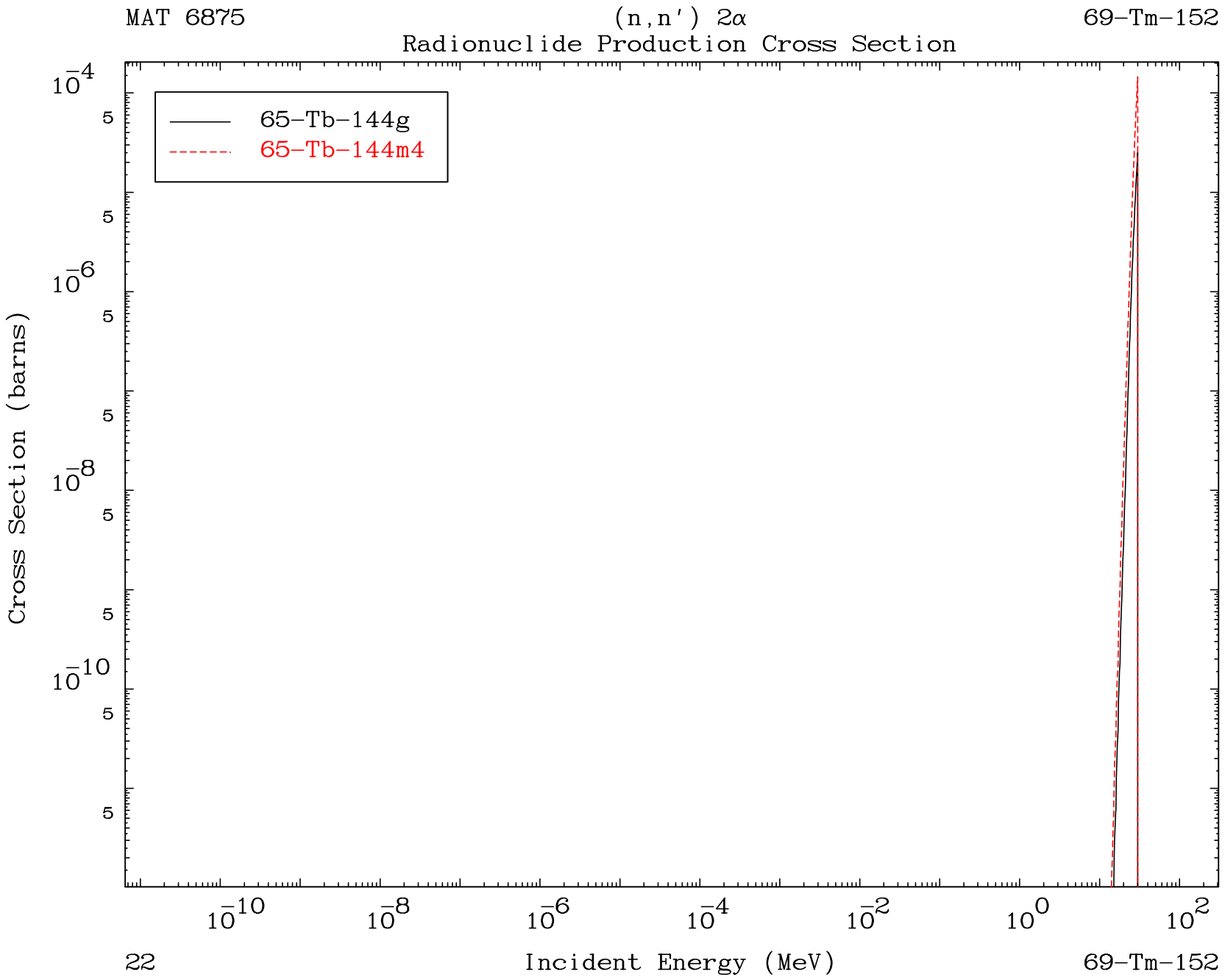

MAT 6875
Inelastic
69-Tm-152
Radionuclide Production Cross Section
69-Tm-152g
69-Tm-152m2
Cross Section (barns)
Incident Energy (MeV)
17
69-Tm-152

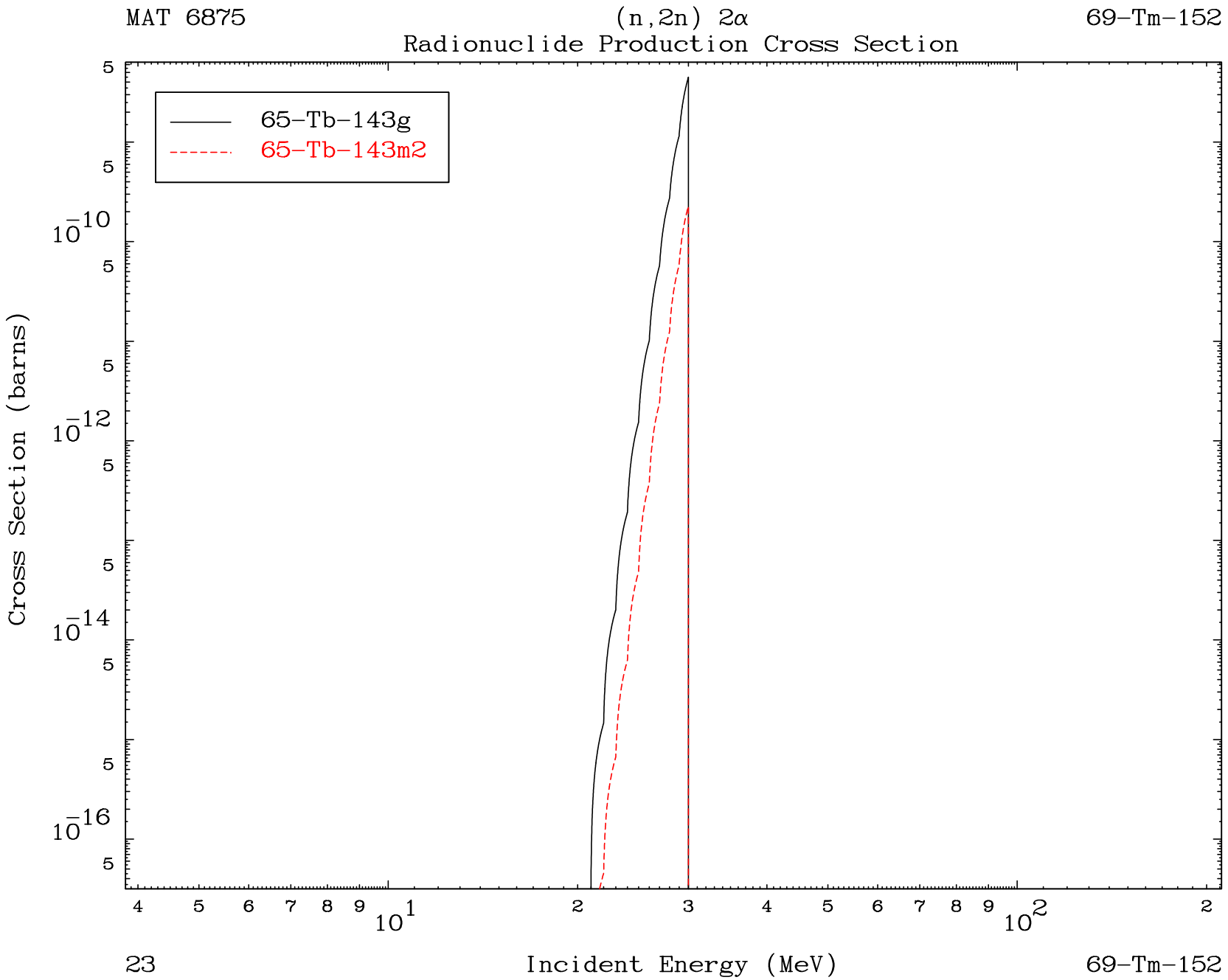

MAT 6875
(n,2n) d
69-Tm-152
Radionuclide Production Cross Section
68-Er-149g
68-Er-149m2
Cross Section (barns)
10-6
10-8
10-10
10-12
5
2
3
4
5
6
7
8
9
10 2
2
18
Incident Energy (MeV)
69-Tm-152

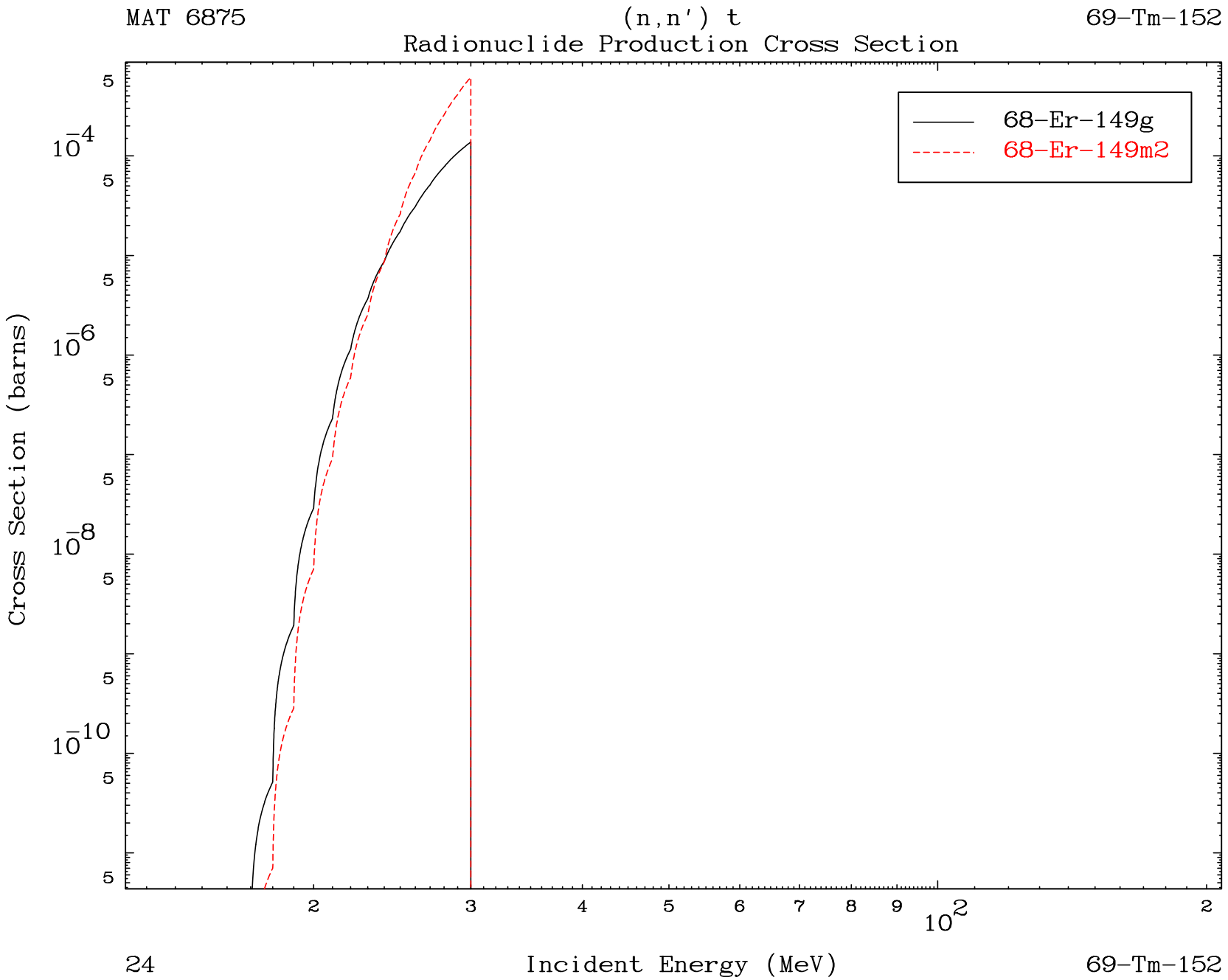

MAT 6875
(n,2n)
69-Tm-152
Radionuclide Production Cross Section
Cross Section (barns)
69-Tm-151g
69-Tm-151m1
Incident Energy (MeV)
19
69-Tm-152

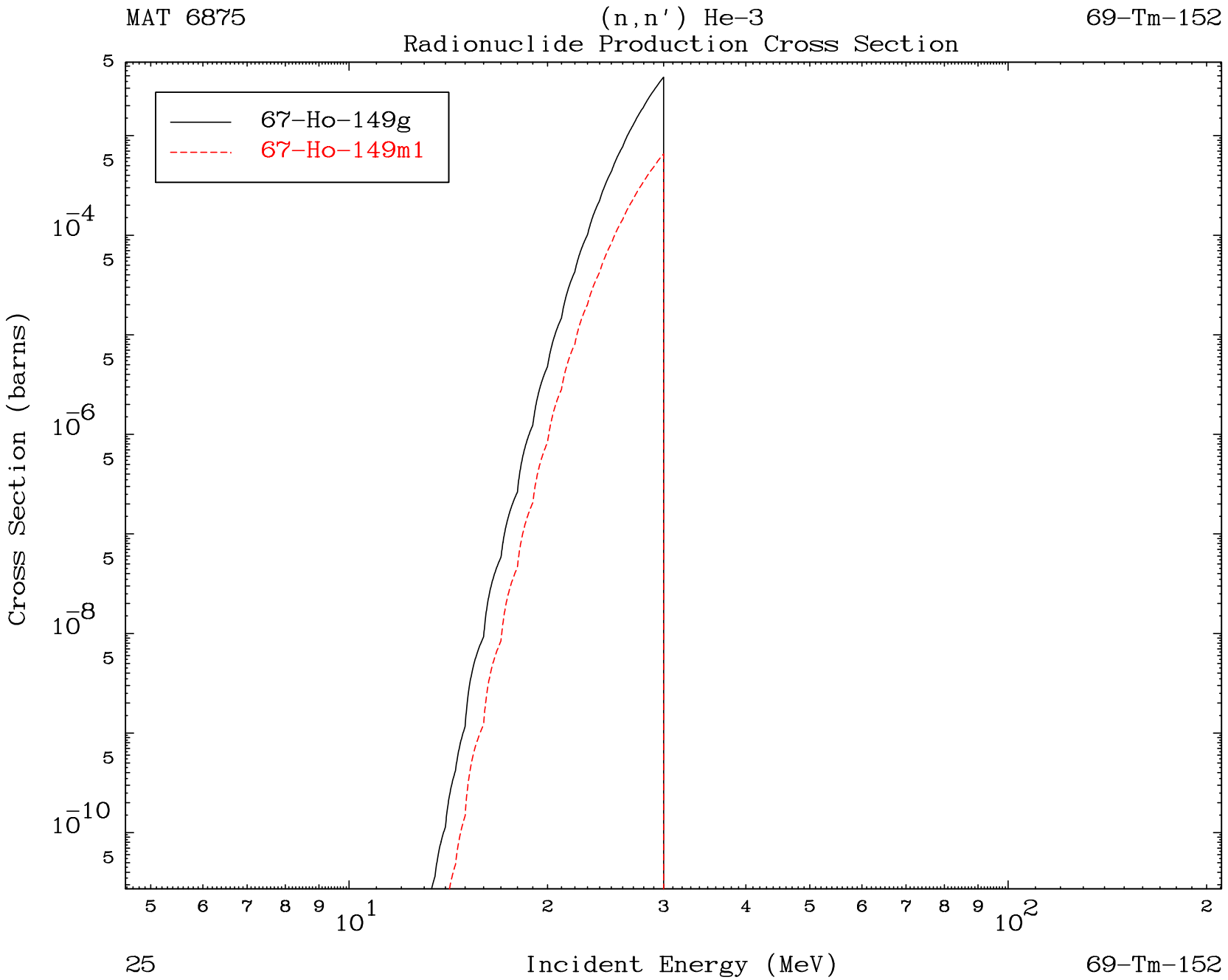

MAT 6875
(n,n') α
69-Tm-152
Radionuclide Production Cross Section
67-Ho-148g
67-Ho-148m4
Cross Section (barns)
Incident Energy (MeV)
20
69-Tm-152

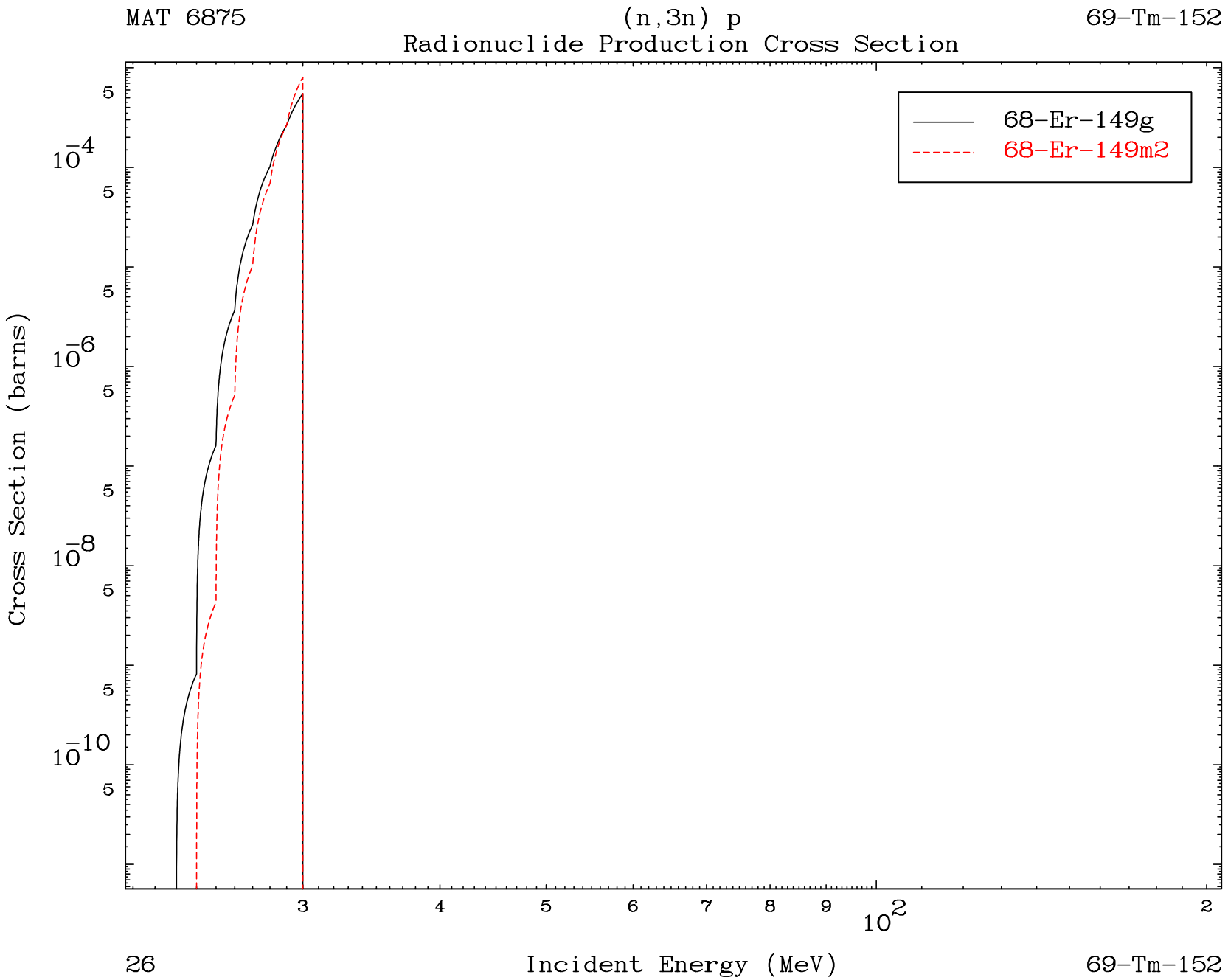

MAT 6875
(n,n') p
69-Tm-152
Radionuclide Production Cross Section
68-Er-151g
68-Er-151m21
Cross Section (barns)
Incident Energy (MeV)
21
69-Tm-152

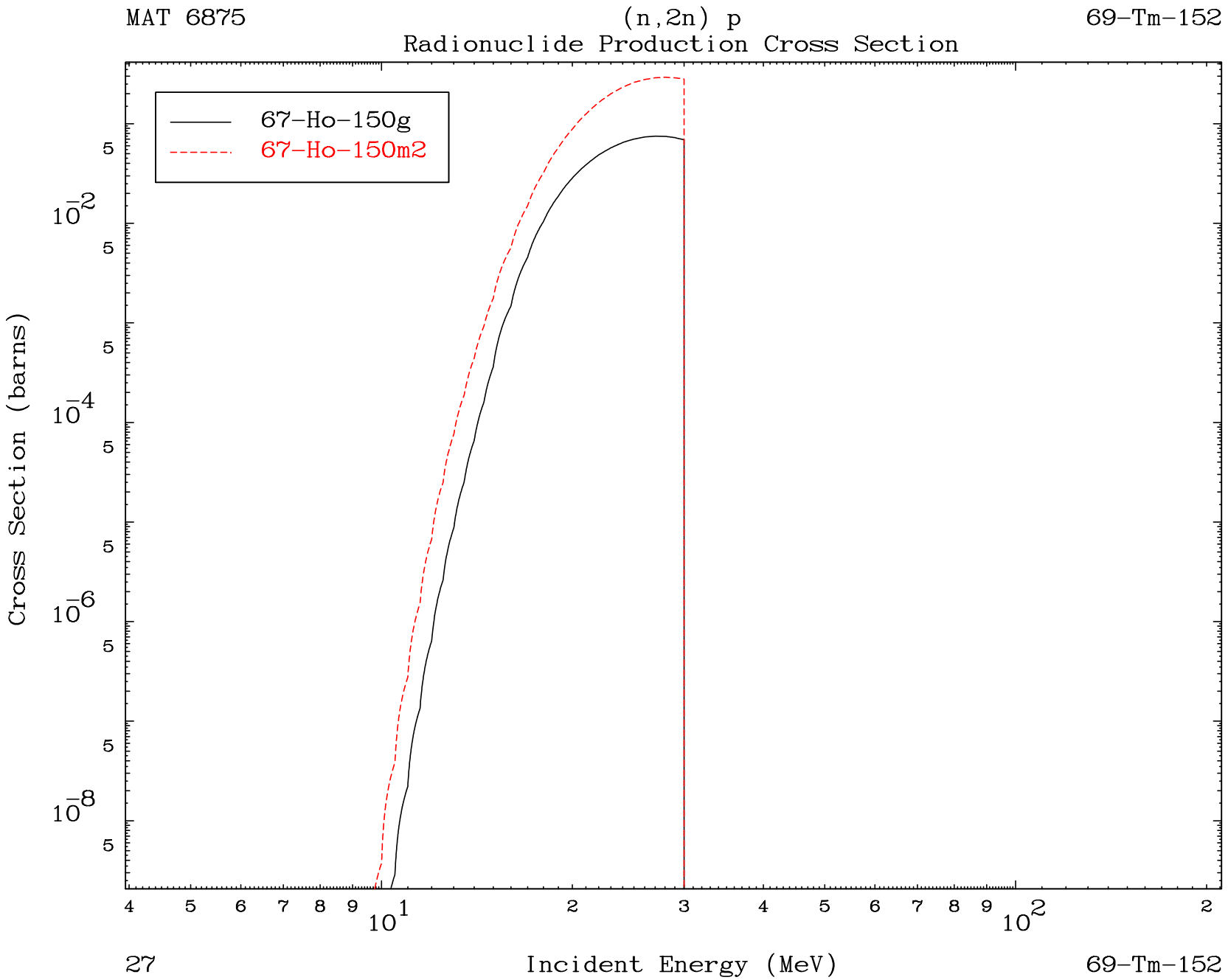

MAT 6875
(n,n') 2α
69-Tm-152
Radionuclide Production Cross Section
65-Tb-144g
65-Tb-144m4
Cross Section (barns)
Incident Energy (MeV)
22
69-Tm-152

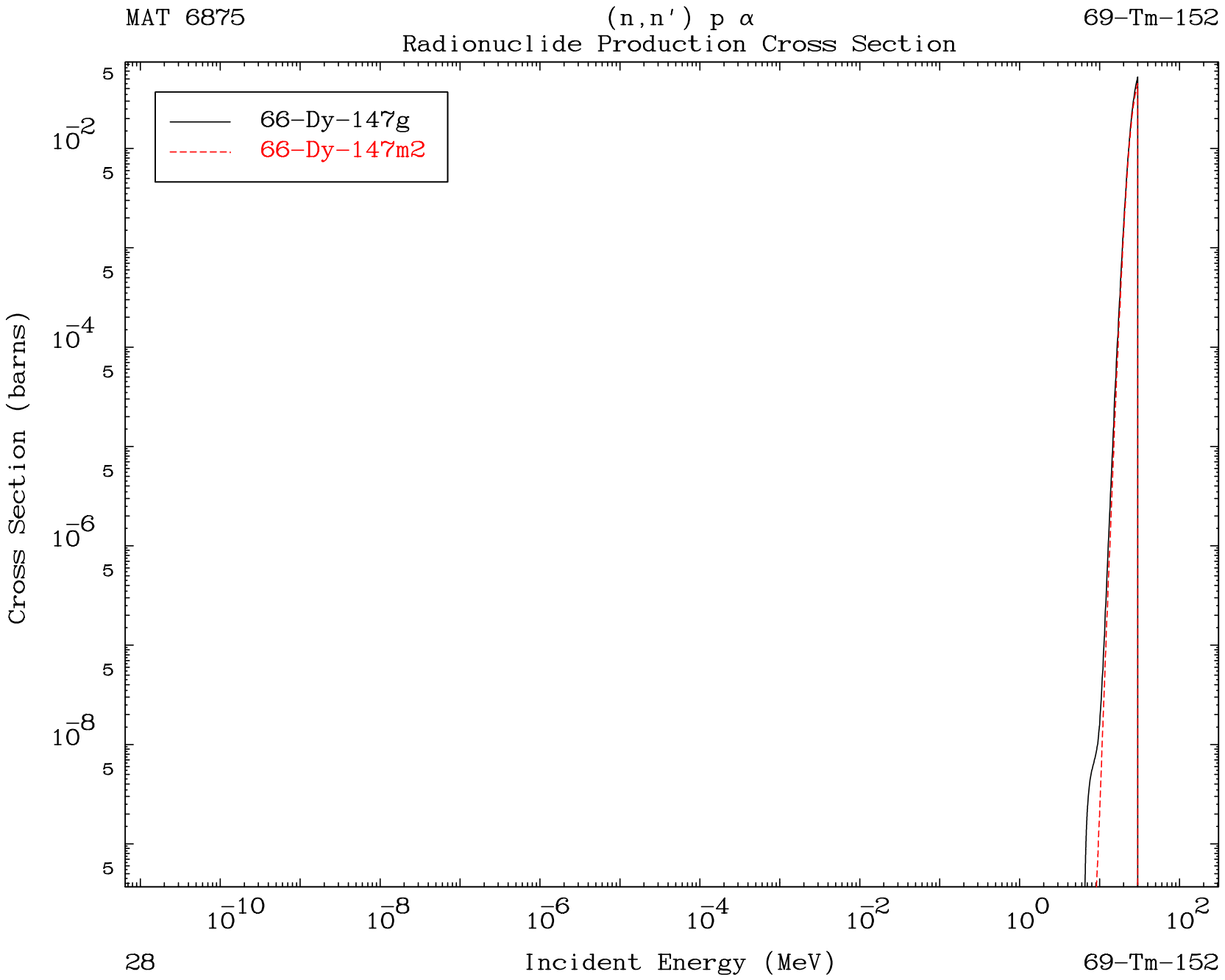

MAT 6875
(n,2n) 2α
69-Tm-152
Radionuclide Production Cross Section
65-Tb-143g
65-Tb-143m2
Cross Section (barns)
Incident Energy (MeV)
23
69-Tm-152

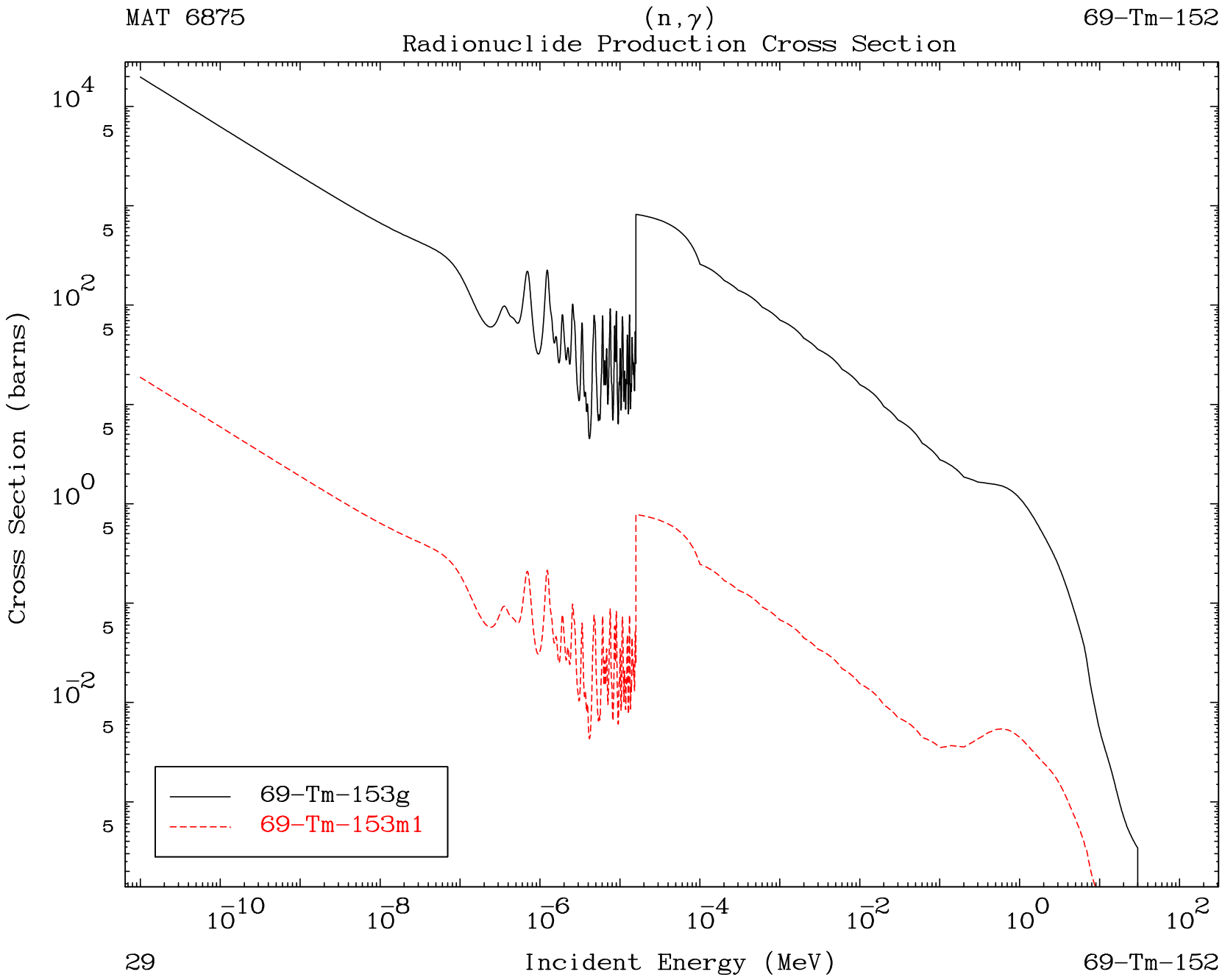

MAT 6875
(n,n') t
69-Tm-152
Radionuclide Production Cross Section
68-Er-149g
68-Er-149m2
Cross Section (barns)
10-4
10-6
10-8
10-10
5
2
3
4
6
7
8
9
10 2
Incident Energy (MeV)
24
69-Tm-152

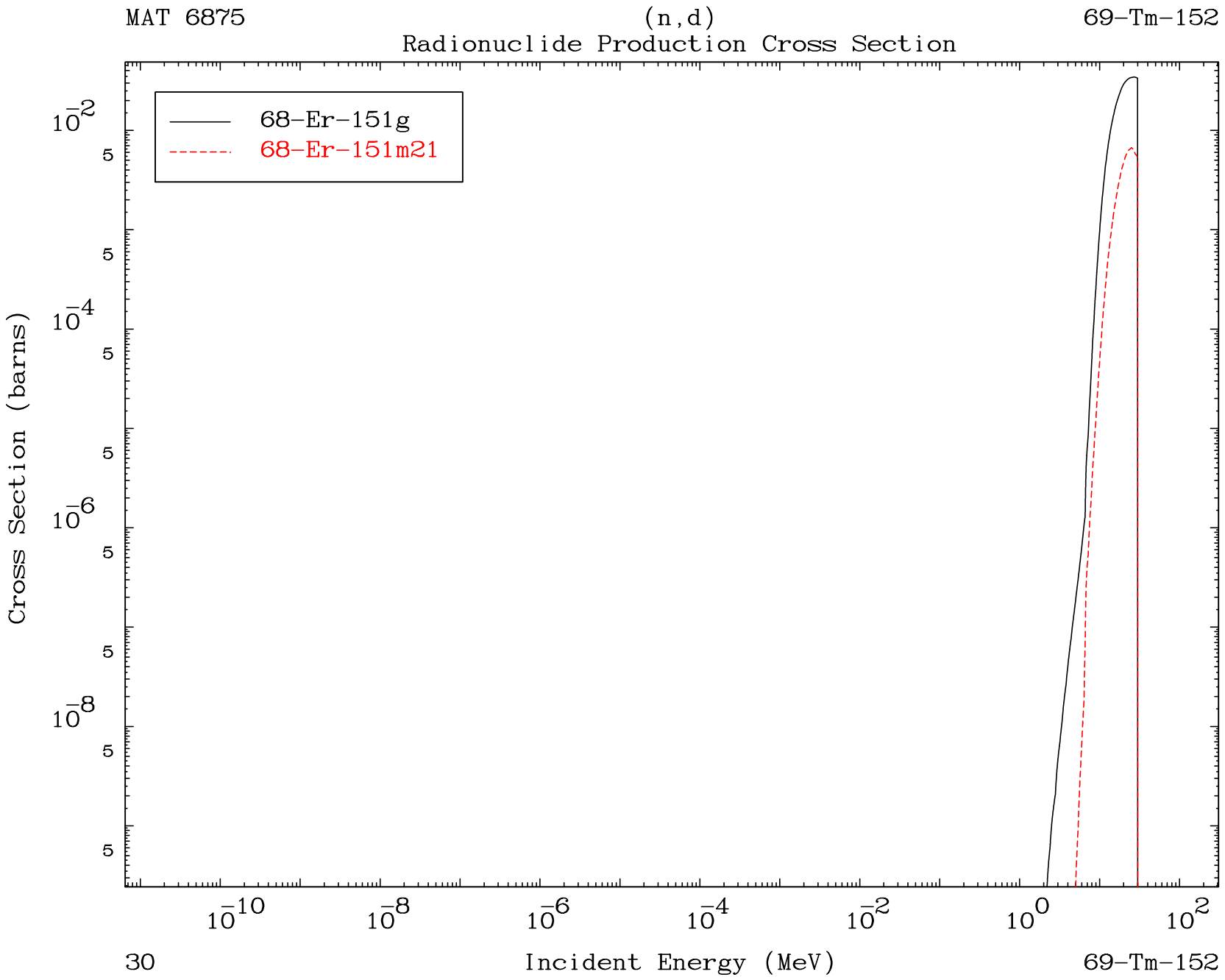

MAT 6875
(n,n') He-3
69-Tm-152
Radionuclide Production Cross Section
67-Ho-149g
67-Ho-149m1
Cross Section (barns)
Incident Energy (MeV)
25
69-Tm-152

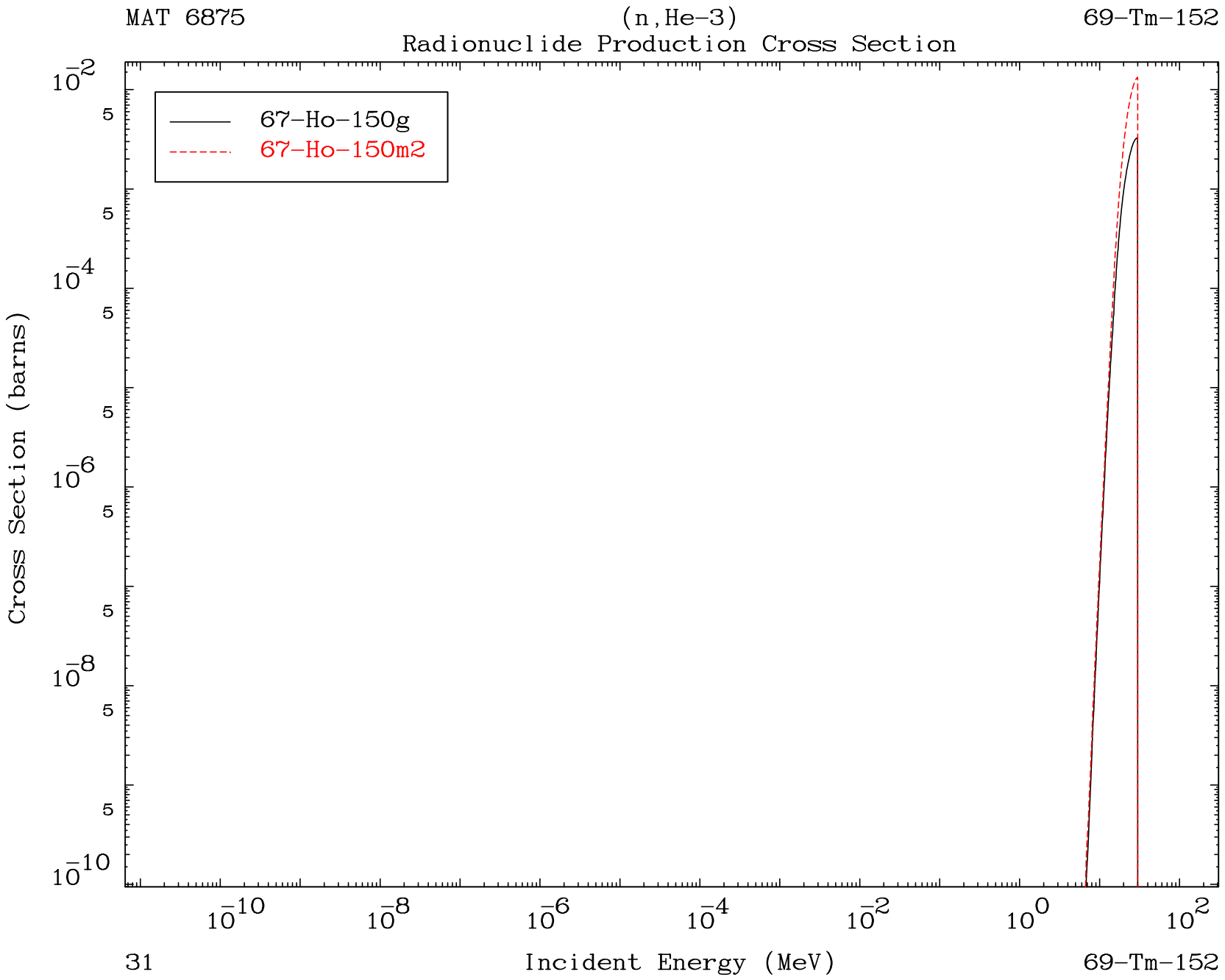

MAT 6875
(n,3n) p
69-Tm-152
Radionuclide Production Cross Section
68-Er-149g
68-Er-149m2
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
3
4
5
6
7
8
9
10^2
2
26
Incident Energy (MeV)
69-Tm-152

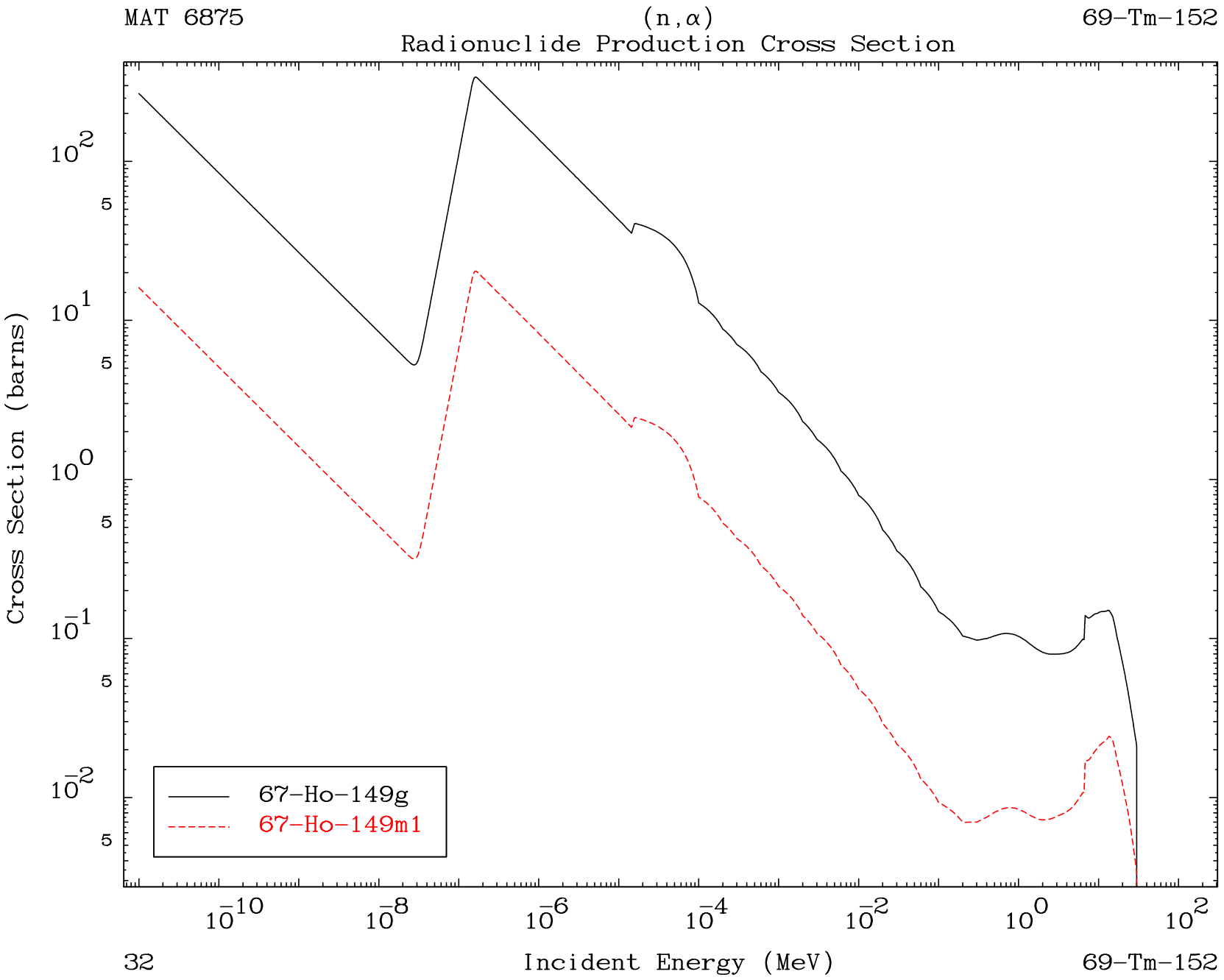

MAT 6875
(n,2n) p
69-Tm-152
Radionuclide Production Cross Section
67-Ho-150g
67-Ho-150m2
Cross Section (barns)
10-2
10-4
10-6
10-8
4 5 6 7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
27
Incident Energy (MeV)
69-Tm-152

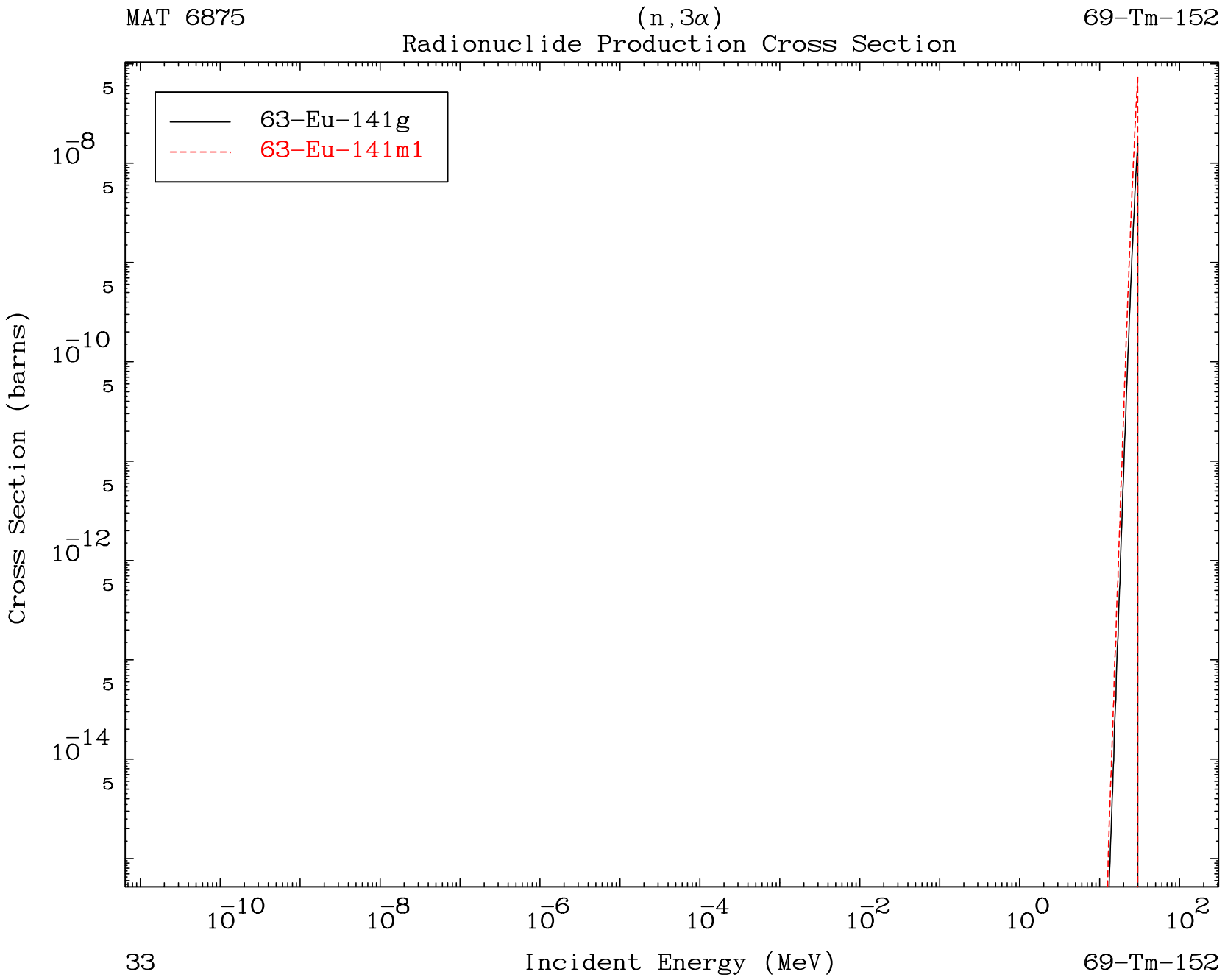

MAT 6875
(n,n') p α
69-Tm-152
Radionuclide Production Cross Section
66-Dy-147g
66-Dy-147m2
Cross Section (barns)
Incident Energy (MeV)
28
69-Tm-152

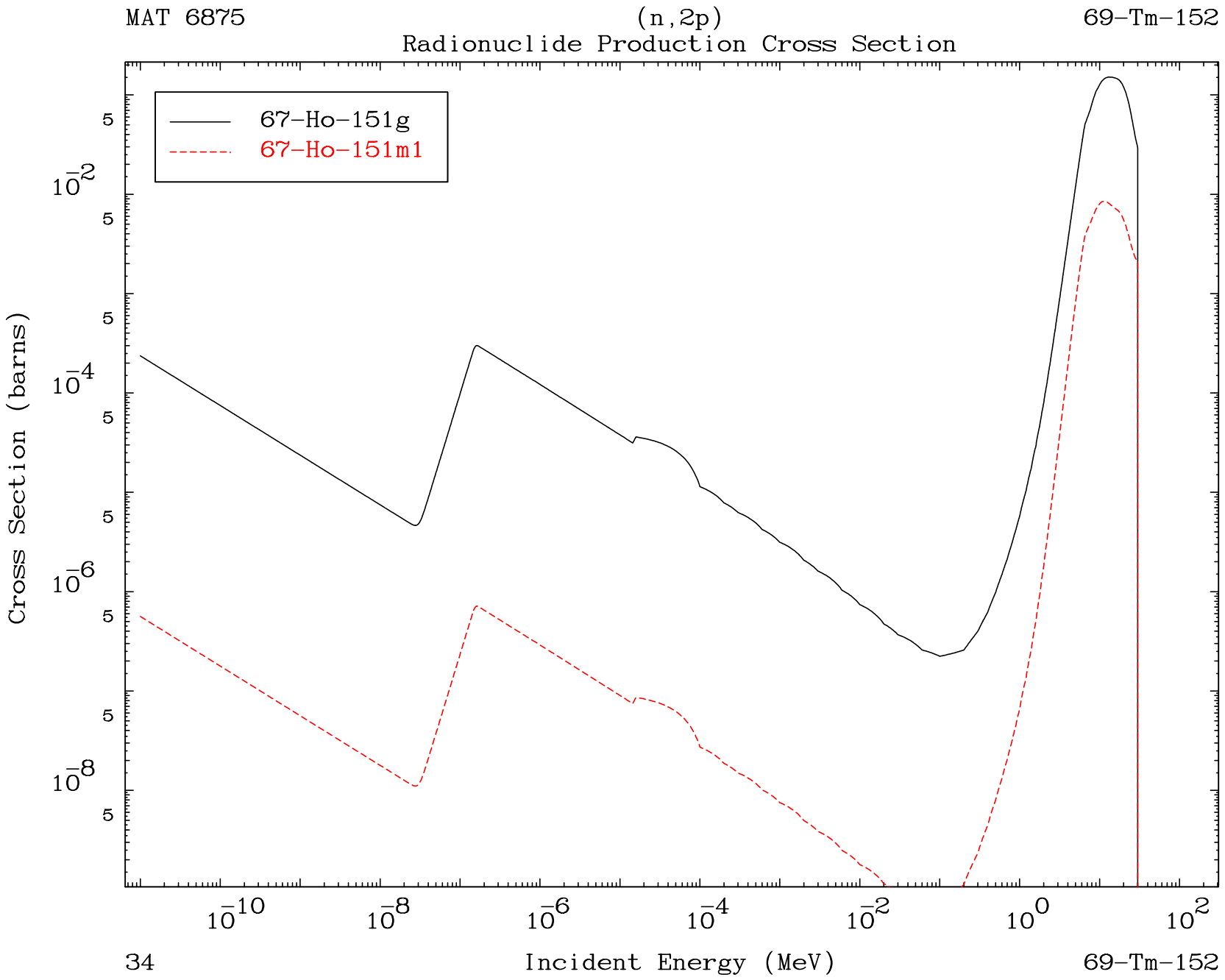

MAT 6875
(n,γ)
69-Tm-152
Radionuclide Production Cross Section
Cross Section (barns)
10^4
10^2
10^0
10^-2
5
69-Tm-153g
69-Tm-153m1
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
29
Incident Energy (MeV)
69-Tm-152

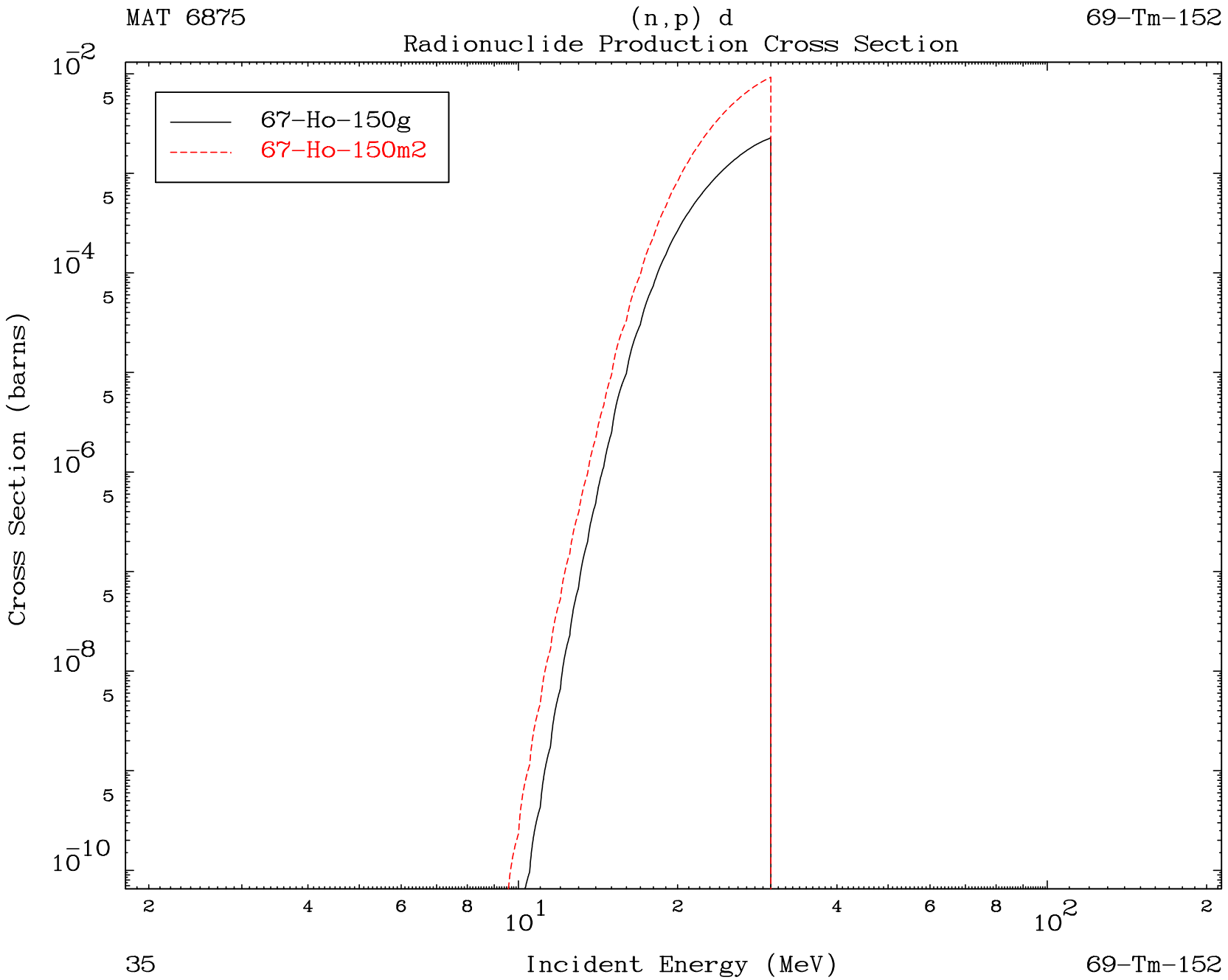

MAT 6875
(n,d)
69-Tm-152
Radionuclide Production Cross Section
68-Er-151g
68-Er-151m21
Cross Section (barns)
Incident Energy (MeV)
30
69-Tm-152

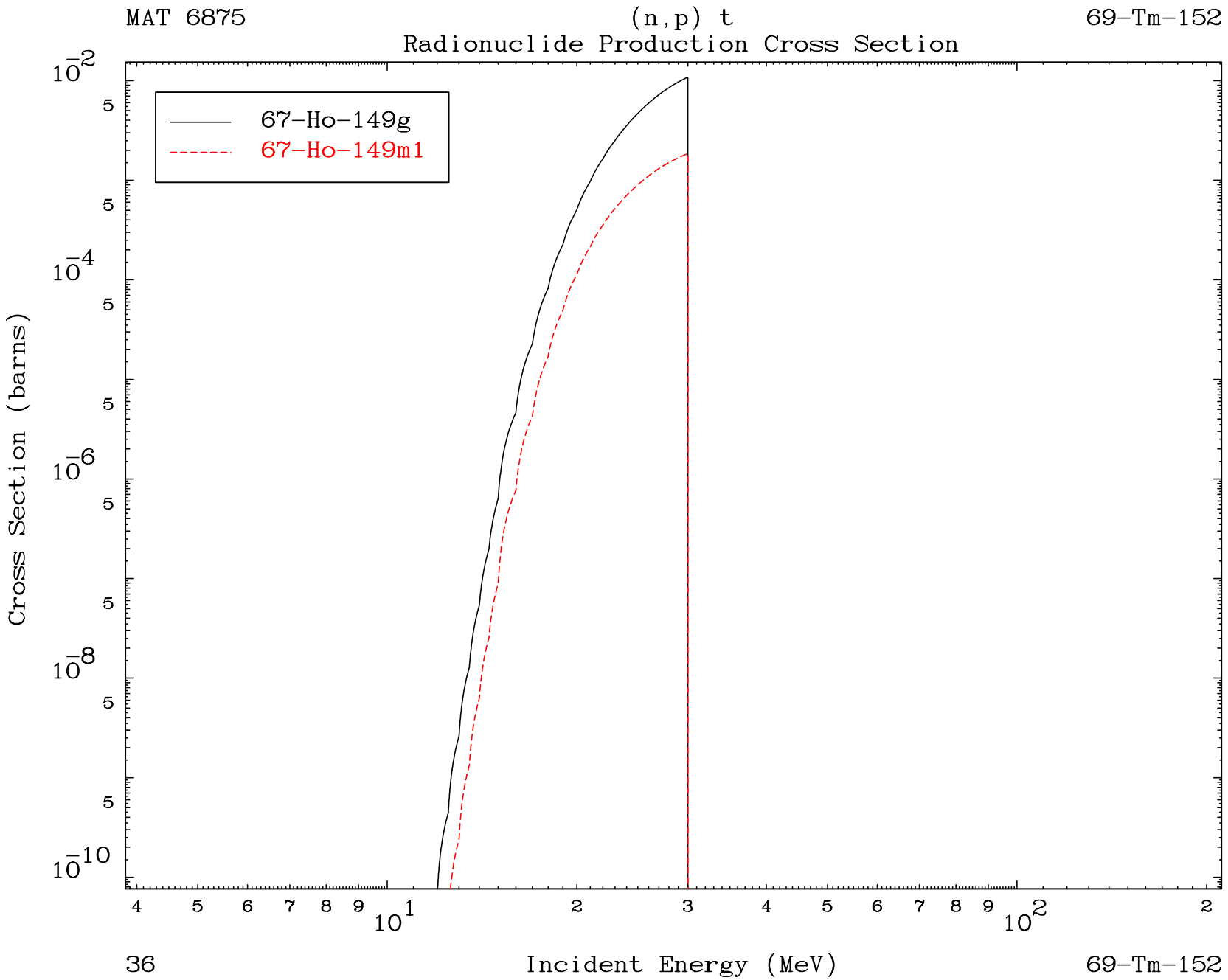

MAT 6875
(n,He-3)
69-Tm-152
Radionuclide Production Cross Section
67-Ho-150g
67-Ho-150m2
Cross Section (barns)
Incident Energy (MeV)
31
69-Tm-152

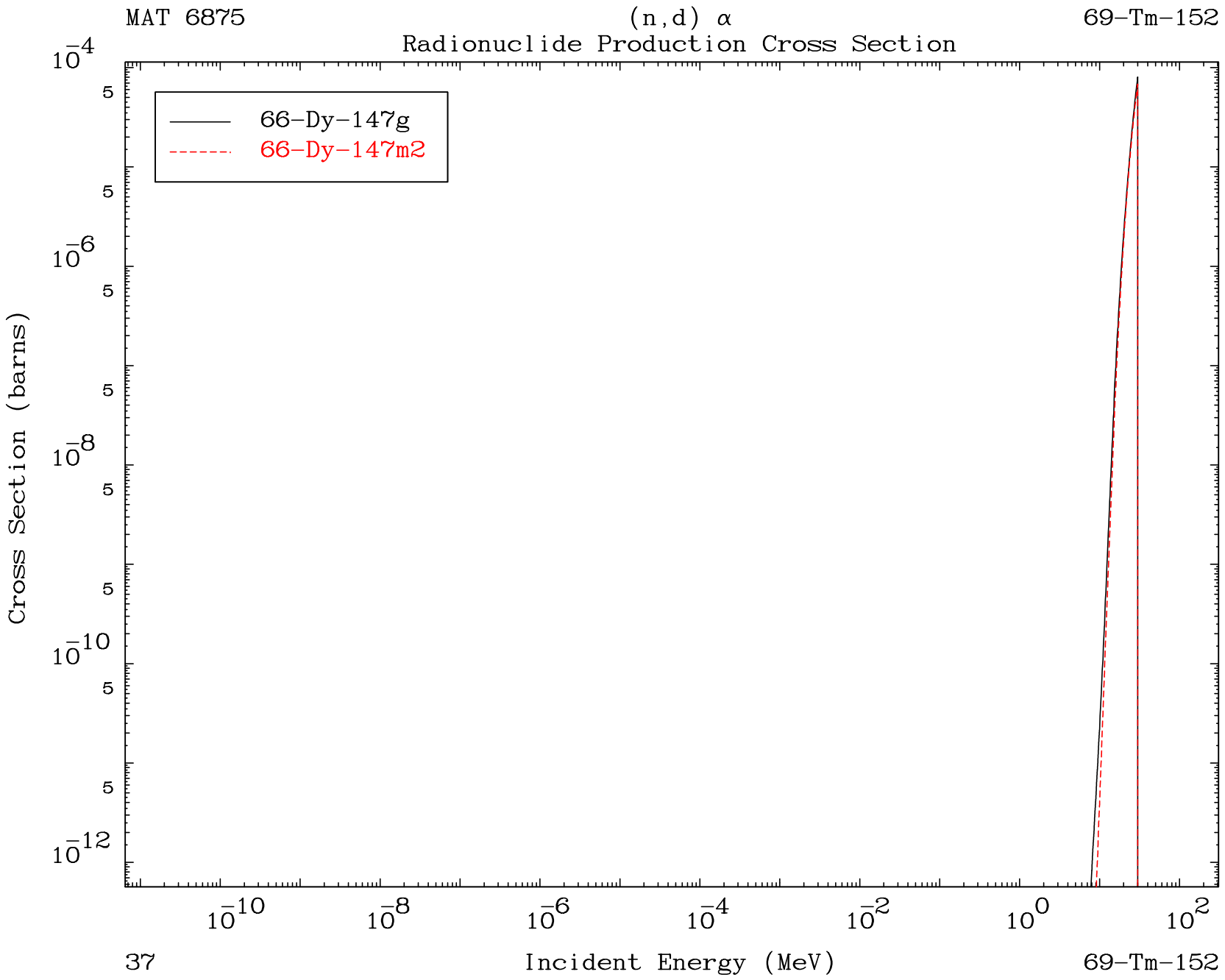

MAT 6875
(n,α)
69-Tm-152
Radionuclide Production Cross Section
Cross Section (barns)
10^2
5
10^1
5
10^0
5
10^-1
5
10^-2
5
67-Ho-149g
67-Ho-149m1
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
32
Incident Energy (MeV)
69-Tm-152


MAT 6875
(n,3α)
69-Tm-152
Radionuclide Production Cross Section
63-Eu-141g
63-Eu-141m1
Cross Section (barns)
Incident Energy (MeV)
33
69-Tm-152


MAT 6875
(n,2p)
69-Tm-152
Radionuclide Production Cross Section
67-Ho-151g
67-Ho-151m1
Cross Section (barns)
Incident Energy (MeV)
34
69-Tm-152


MAT 6875
(n,p) d
69-Tm-152
Radionuclide Production Cross Section
67-Ho-150g
67-Ho-150m2
Cross Section (barns)
Incident Energy (MeV)
35
69-Tm-152


MAT 6875
(n,p) t
69-Tm-152
Radionuclide Production Cross Section
67-Ho-149g
67-Ho-149m1
Cross Section (barns)
Incident Energy (MeV)
36
69-Tm-152


MAT 6875
(n,d) α
69-Tm-152
Radionuclide Production Cross Section
66-Dy-147g
66-Dy-147m2
Cross Section (barns)
Incident Energy (MeV)
37
69-Tm-152