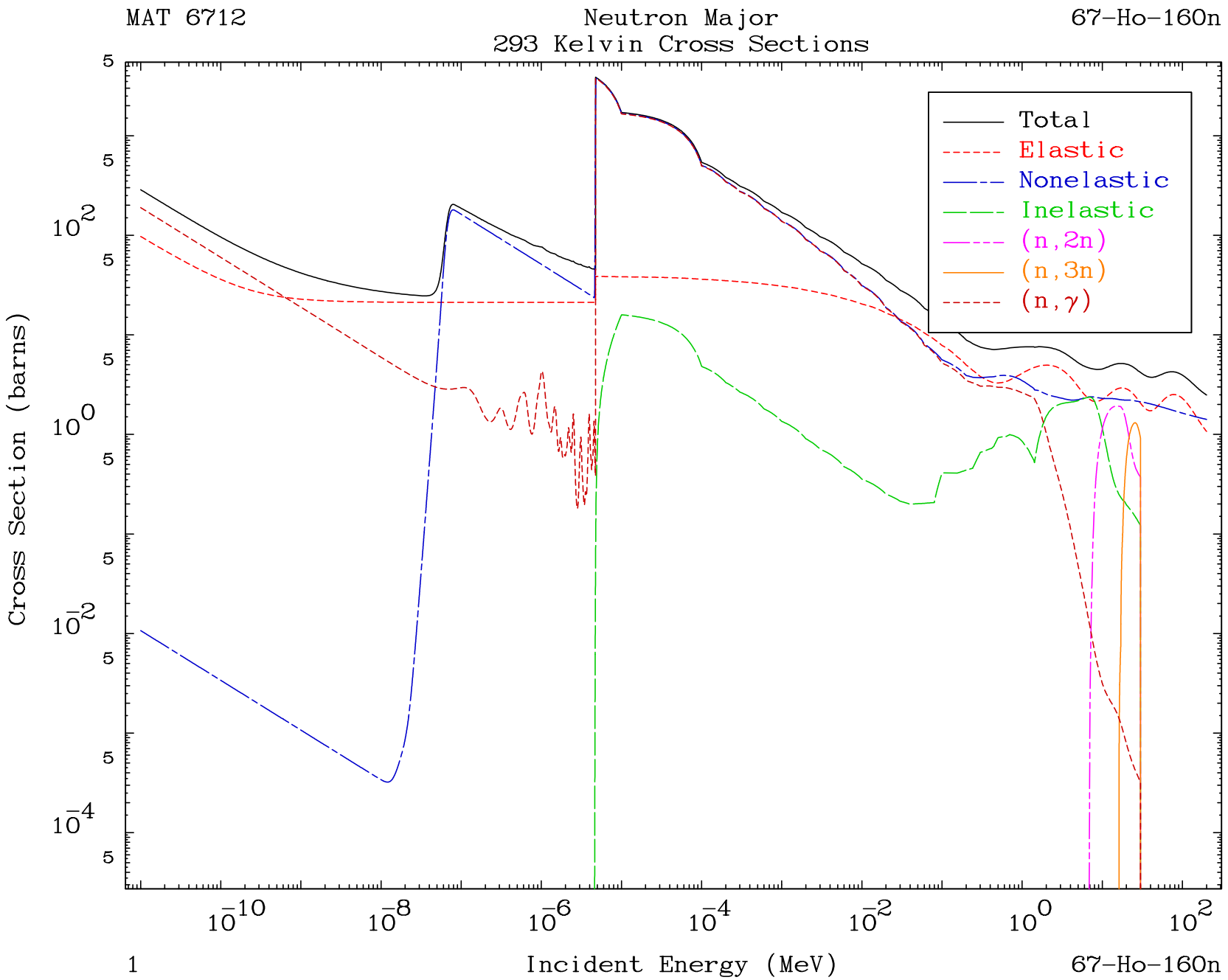
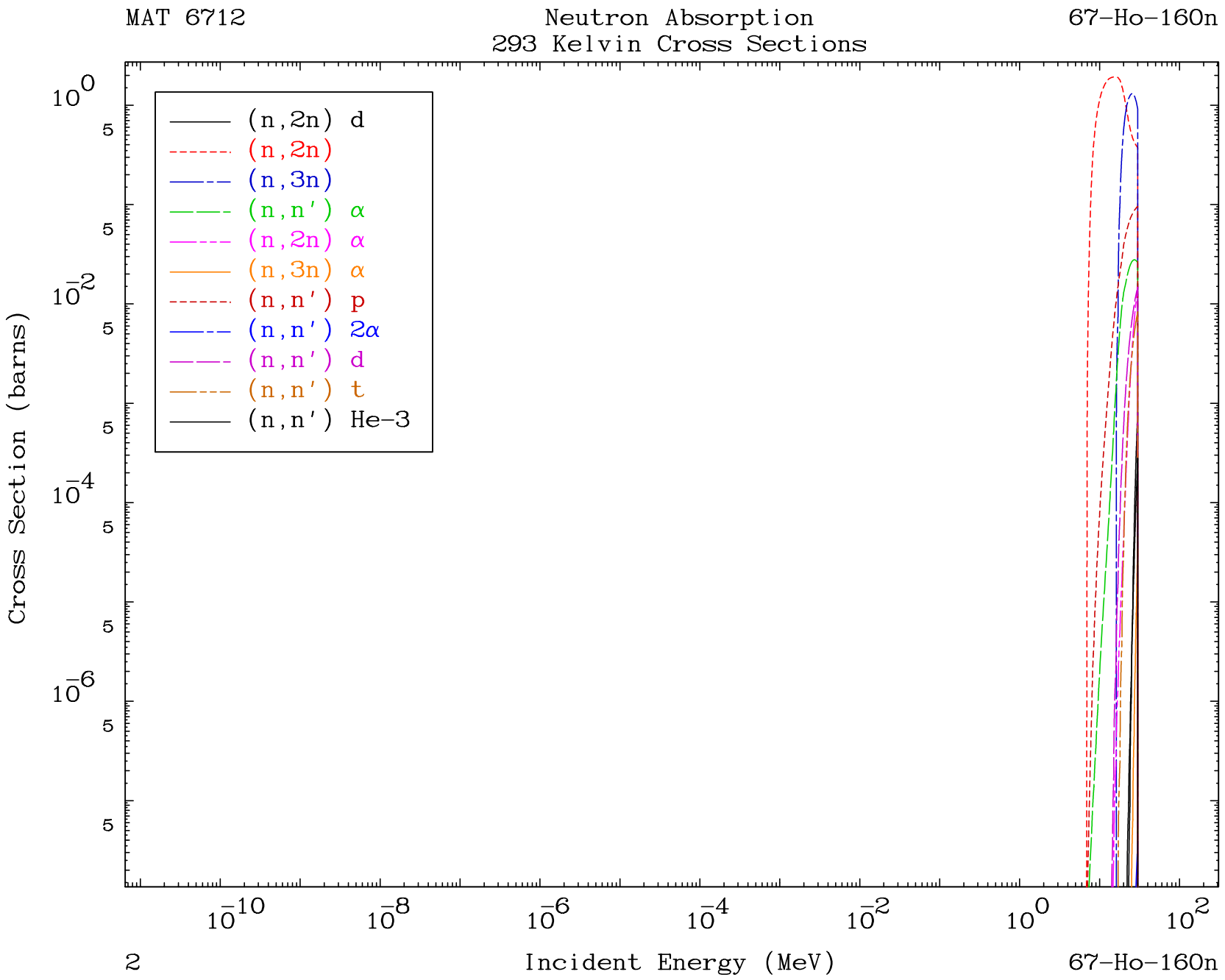
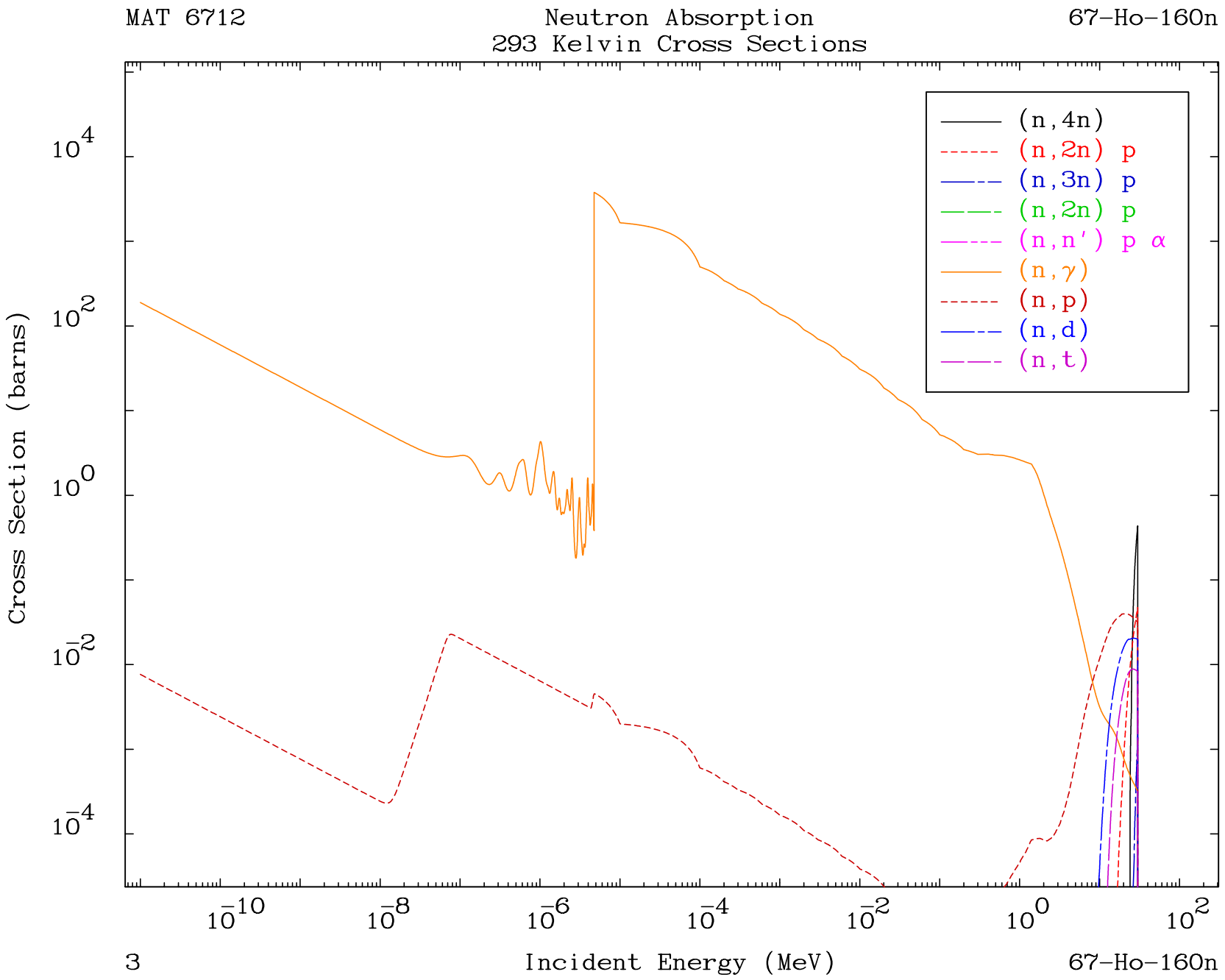
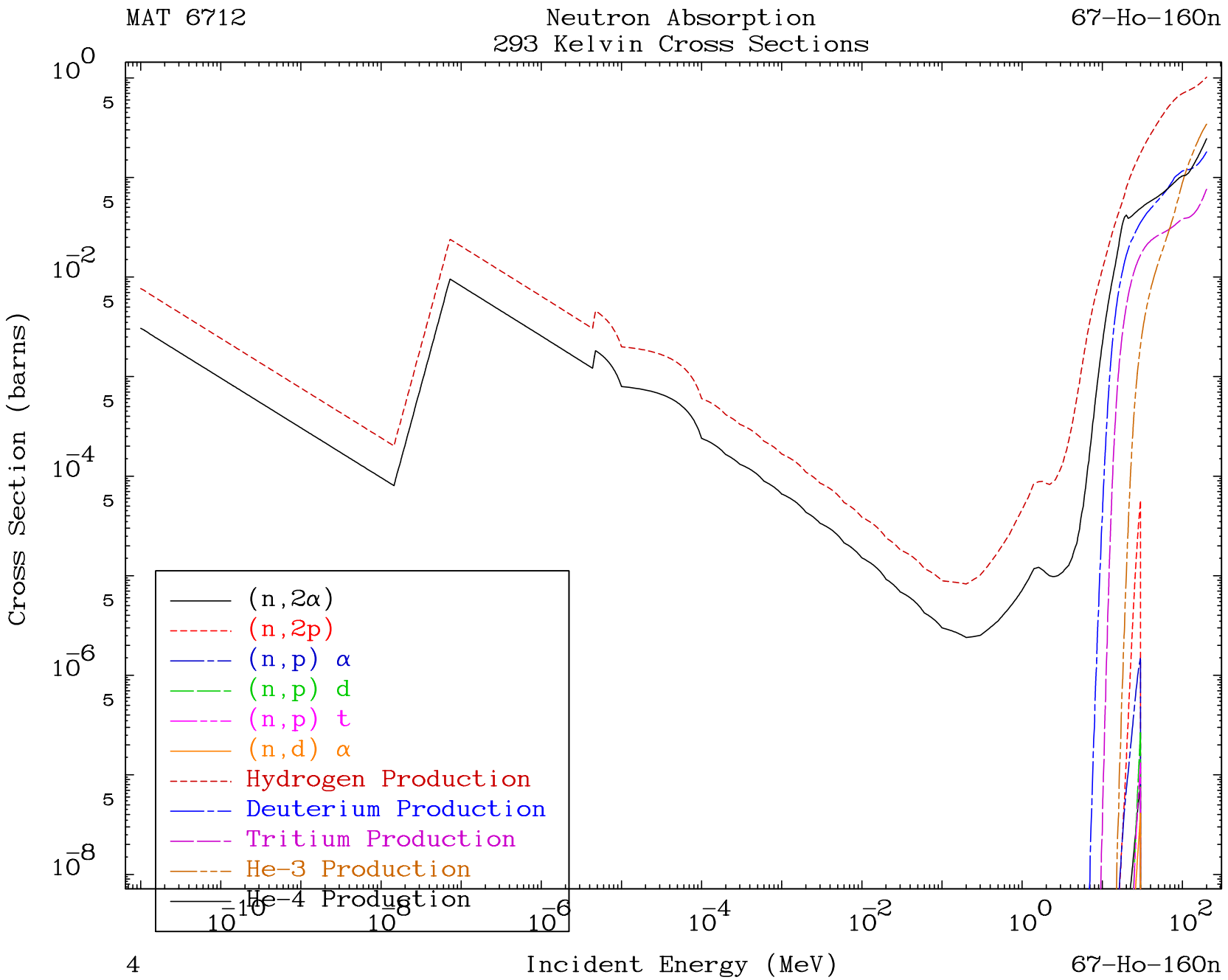
Program EVALPLOT
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

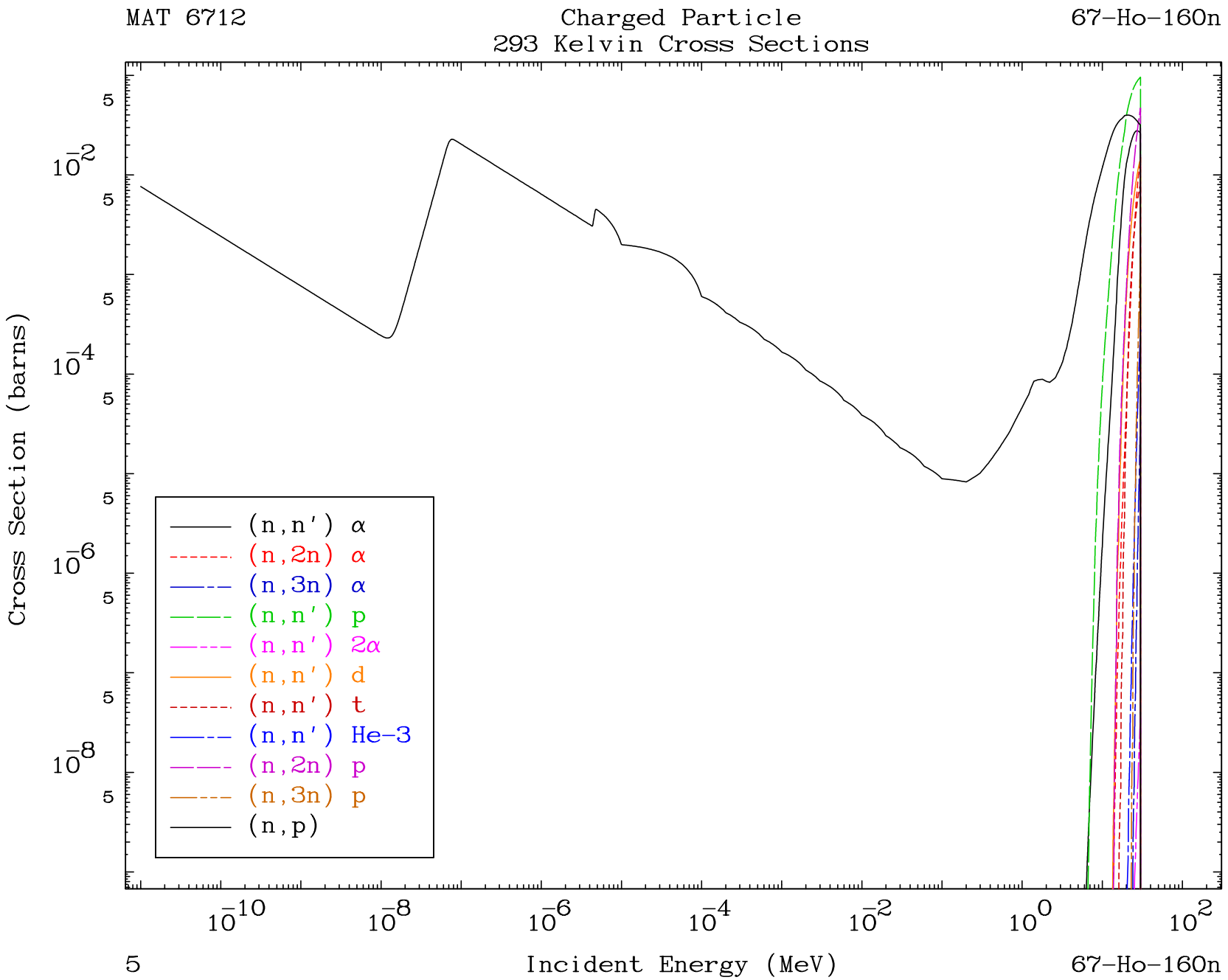
Press Mouse Button to Start

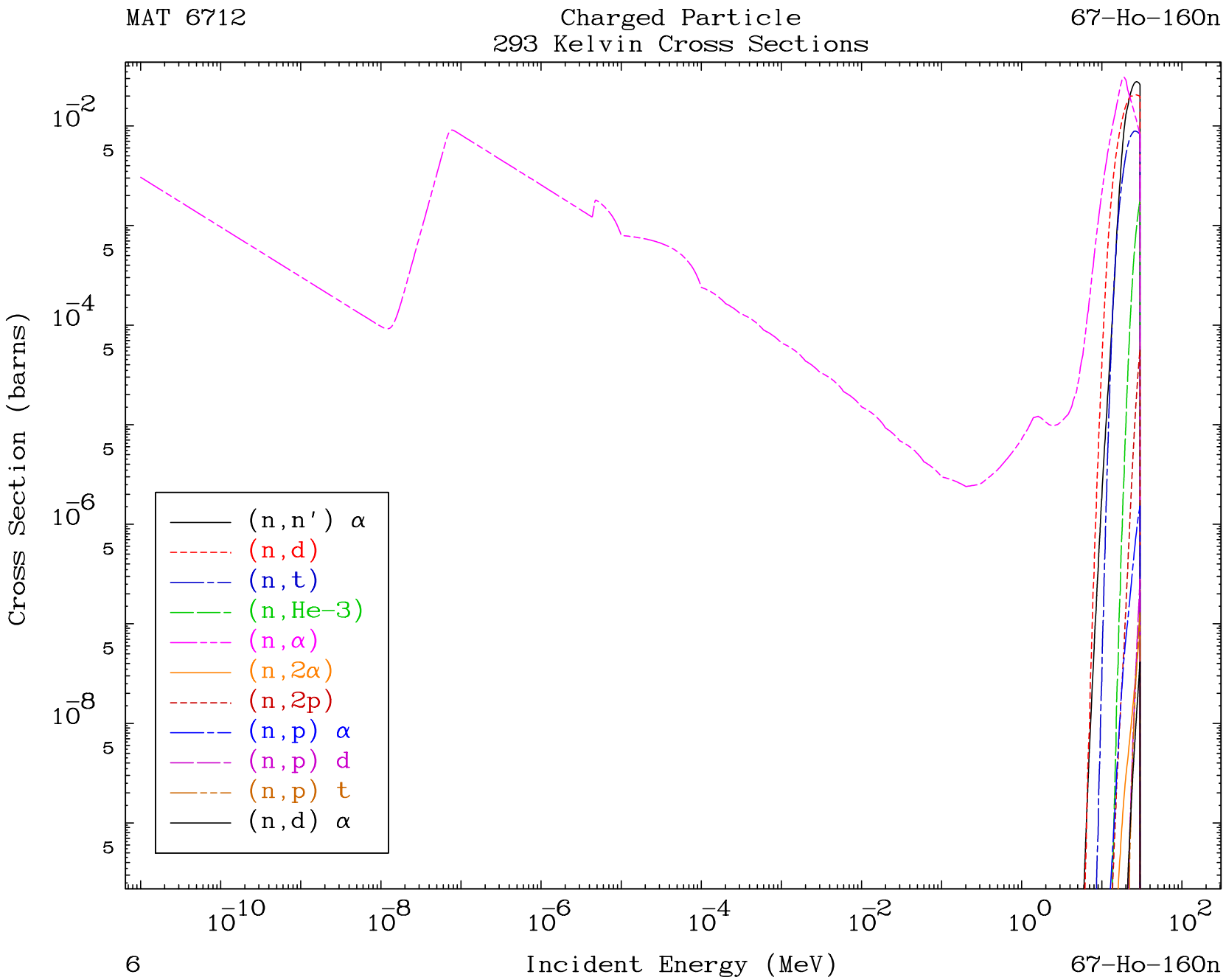

MAT 6712
Neutron Major
293 Kelvin Cross Sections
67-Ho-160n
Total
Elastic
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
67-Ho-160n
1

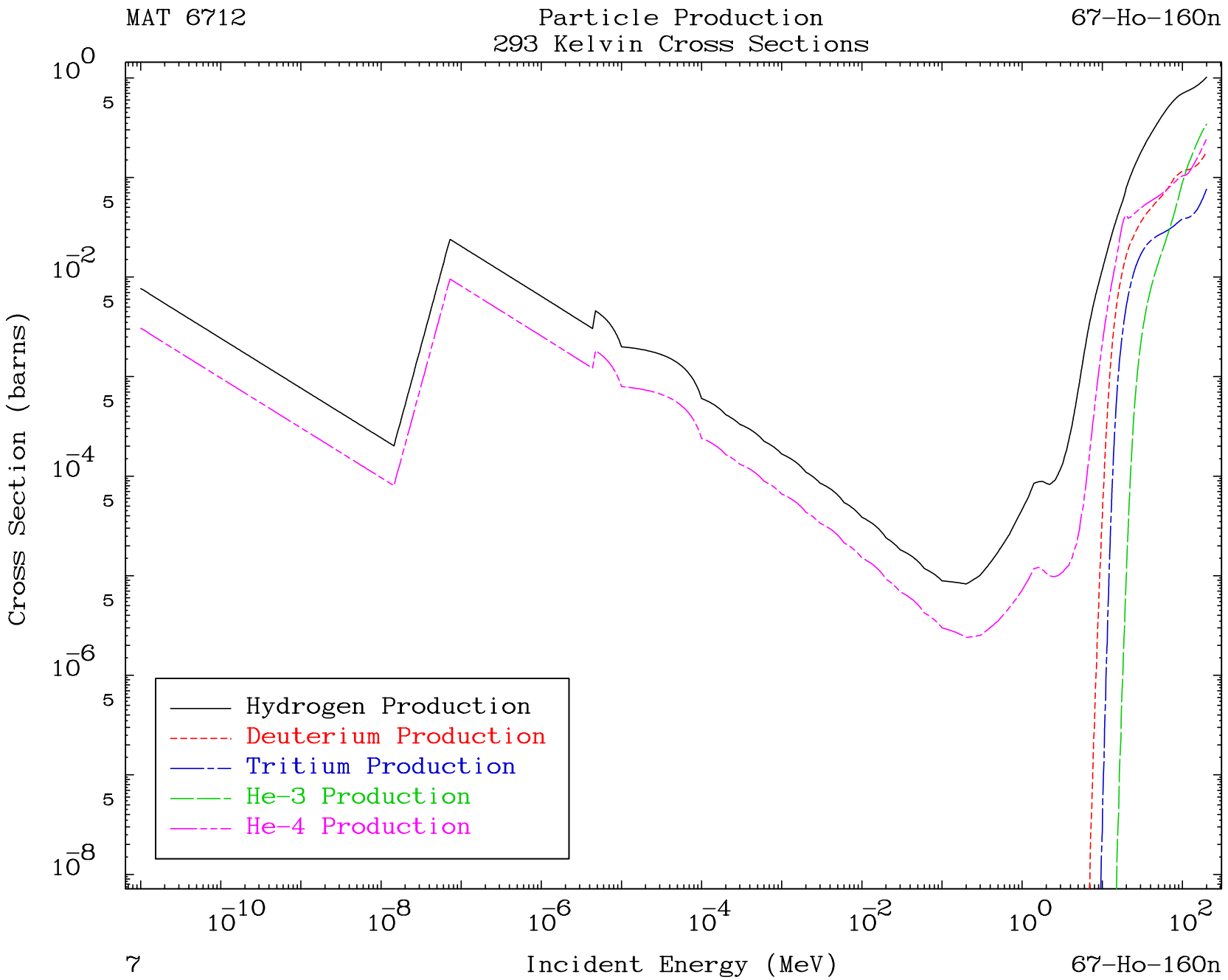

MAT 6712
Neutron Absorption
293 Kelvin Cross Sections
67-Ho-160n
(n,2n) d
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
(n,n') He-3
Cross Section (barns)
Incident Energy (MeV)
67-Ho-160n
2

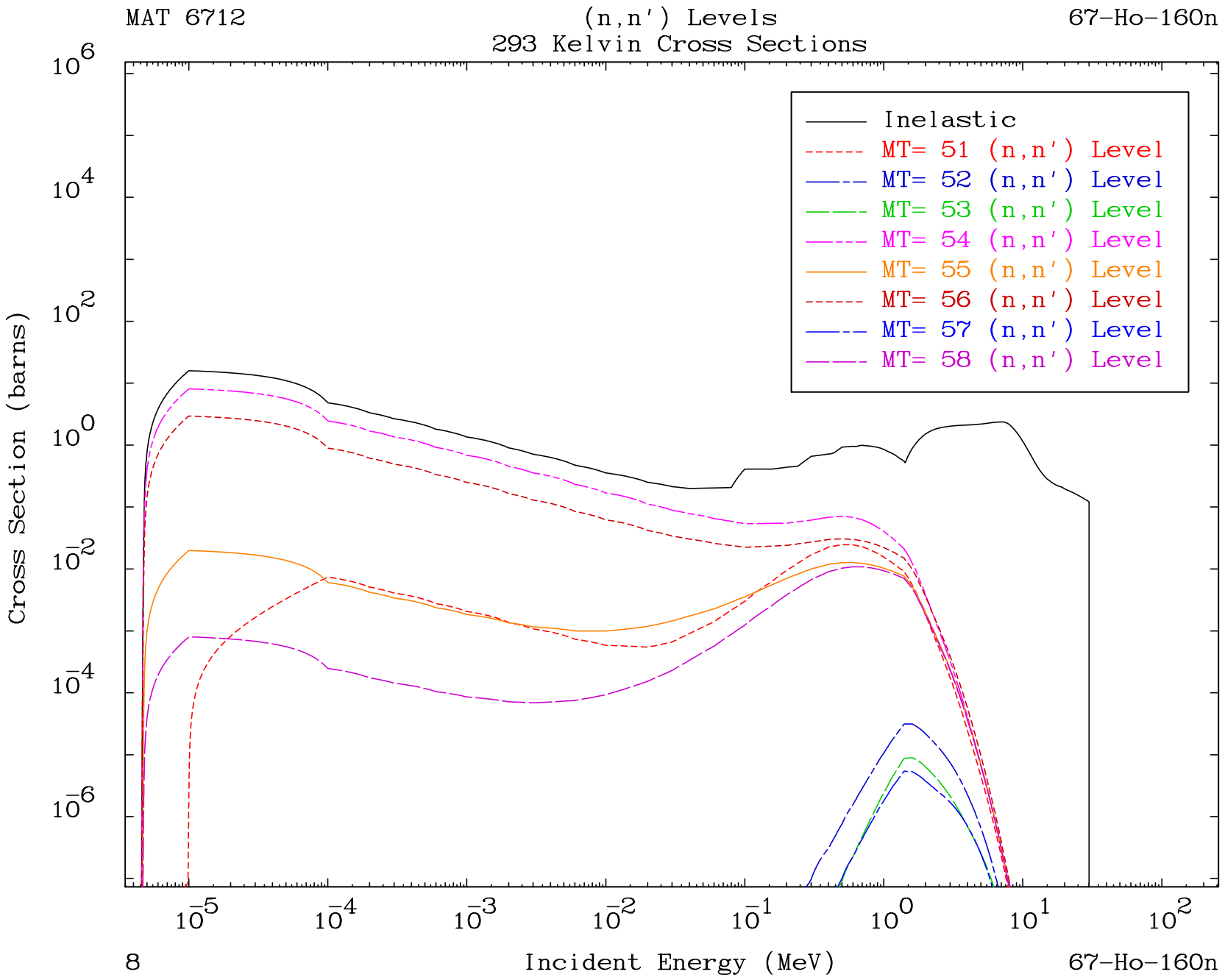

MAT 6712
Neutron Absorption
293 Kelvin Cross Sections
67-Ho-160n
(n,4n)
(n,2n) p
(n,3n) p
(n,2n) p
(n,n') p α
(n,γ)
(n,p)
(n,d)
(n,t)
Cross Section (barns)
10^4
10^2
10^0
10^-2
10^-4
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
Incident Energy (MeV)
3
67-Ho-160n

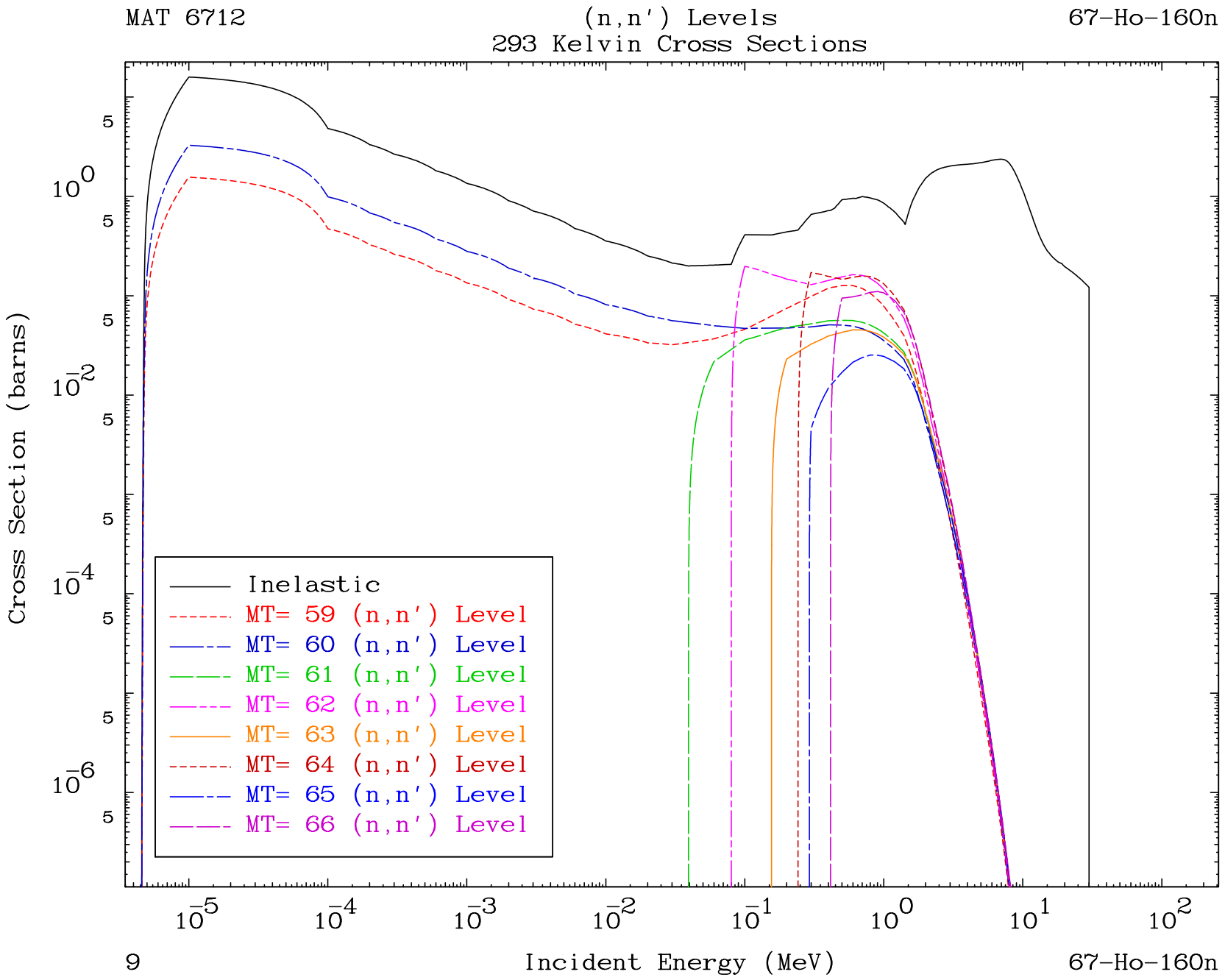

MAT 6712
Neutron Absorption
293 Kelvin Cross Sections
67-Ho-160n
Cross Section (barns)
Incident Energy (MeV)
67-Ho-160n
4
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production

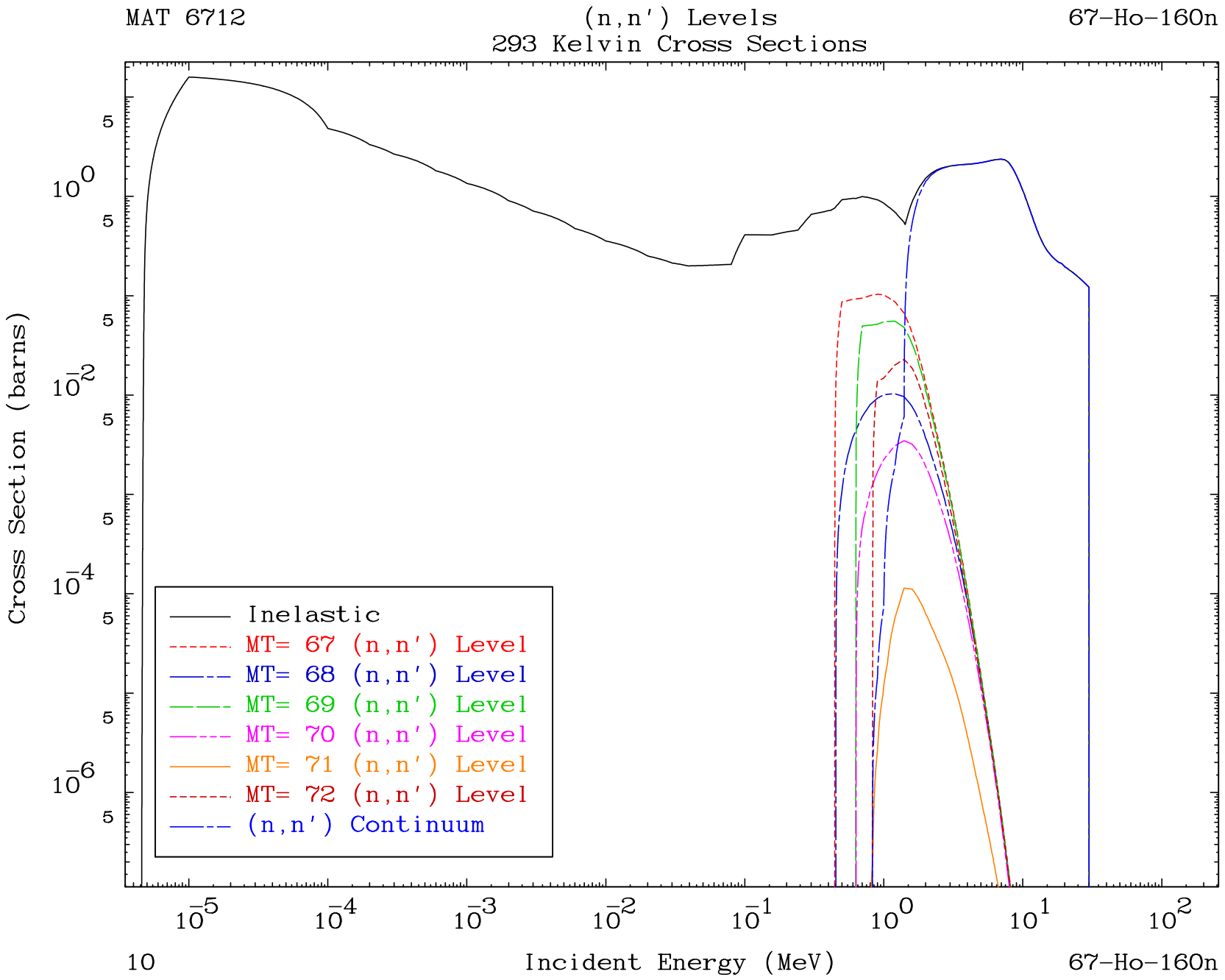

MAT 6712
Charged Particle
293 Kelvin Cross Sections
67-Ho-160n
Cross Section (barns)
Incident Energy (MeV)
67-Ho-160n
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
(n,3n) p
(n,p)

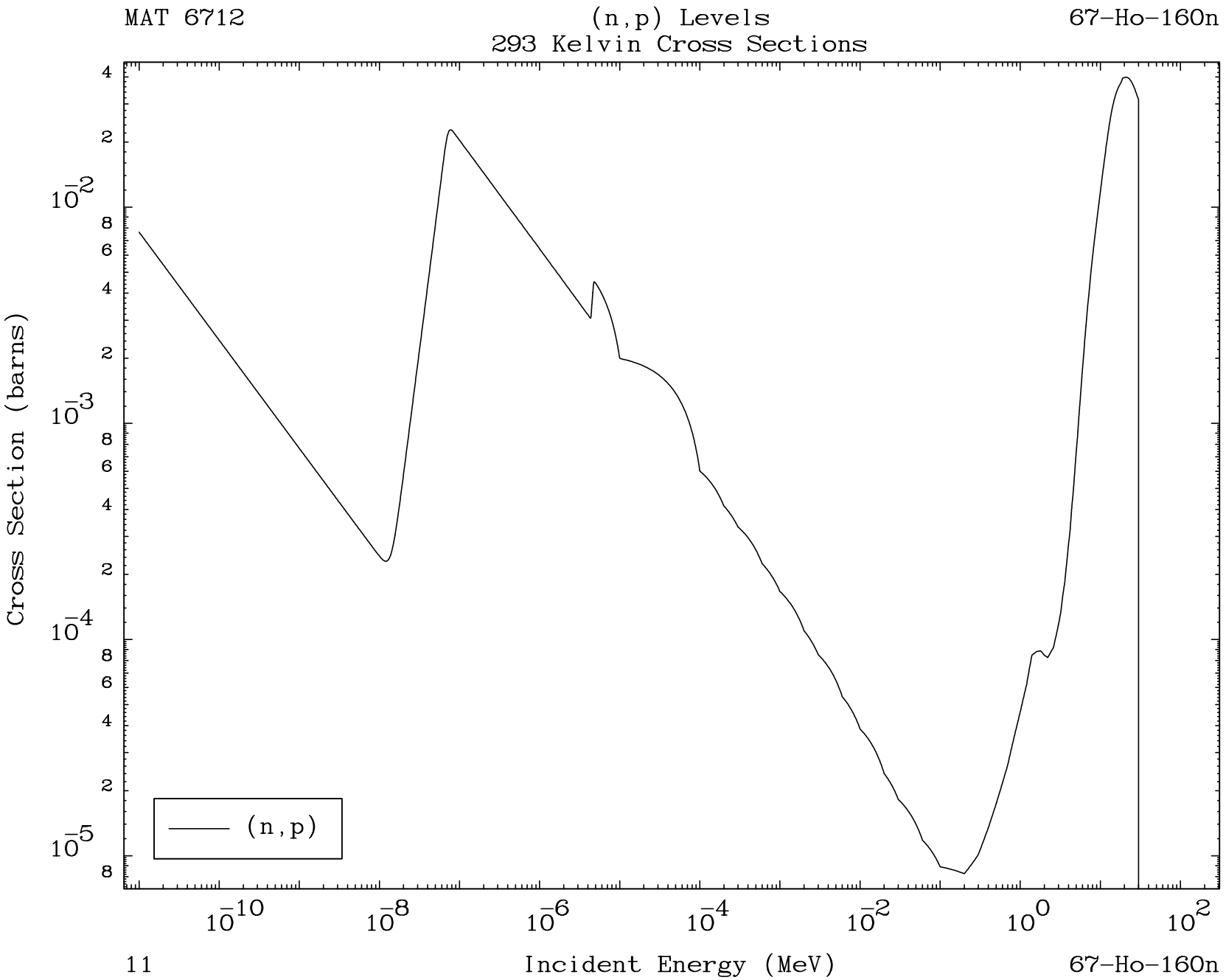

MAT 6712
Charged Particle
293 Kelvin Cross Sections
67-Ho-160n
Cross Section (barns)
Incident Energy (MeV)
(n,n') α
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
6
67-Ho-160n

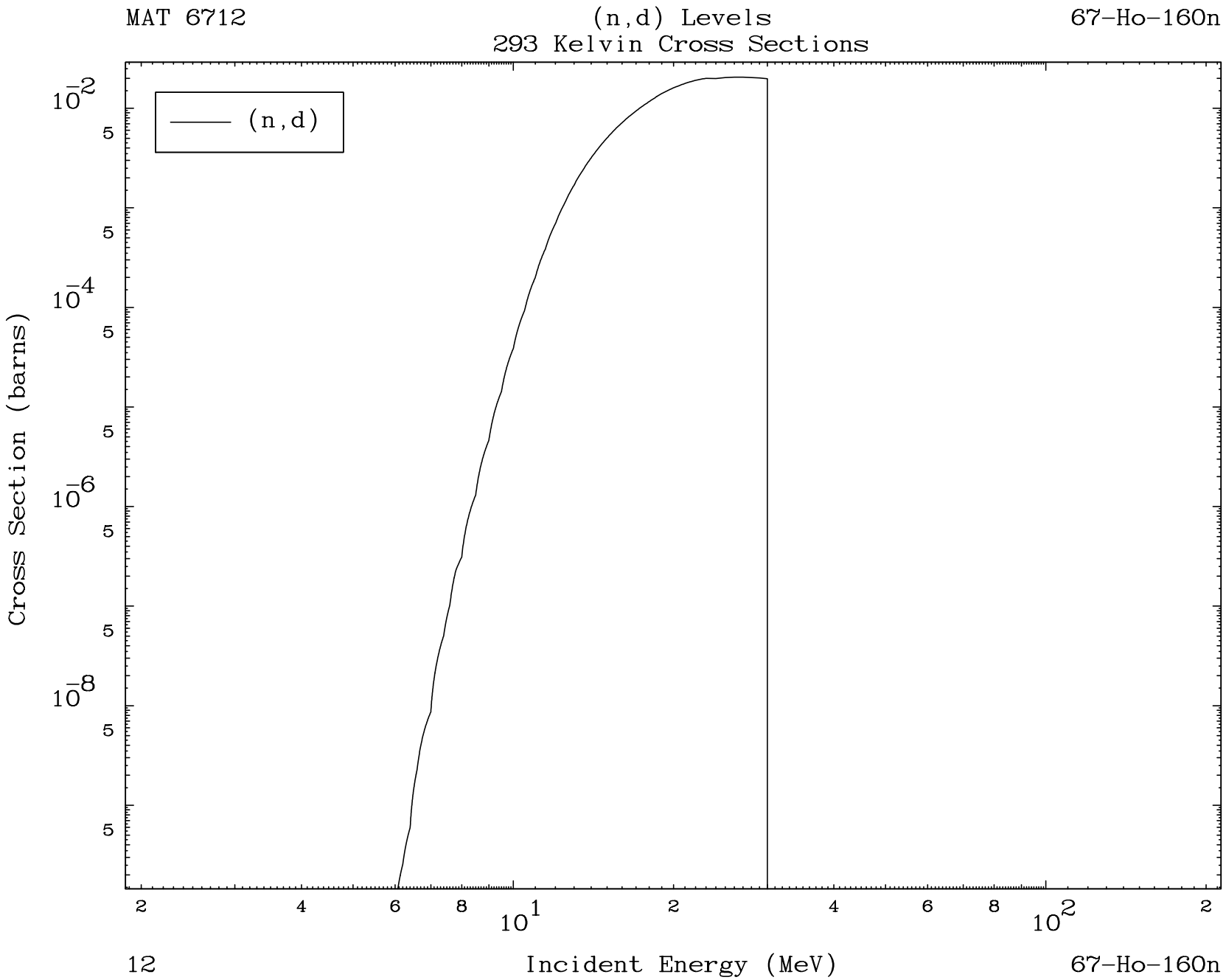

MAT 6712
Particle Production
293 Kelvin Cross Sections
67-Ho-160n
Cross Section (barns)
Incident Energy (MeV)
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production
7
67-Ho-160n

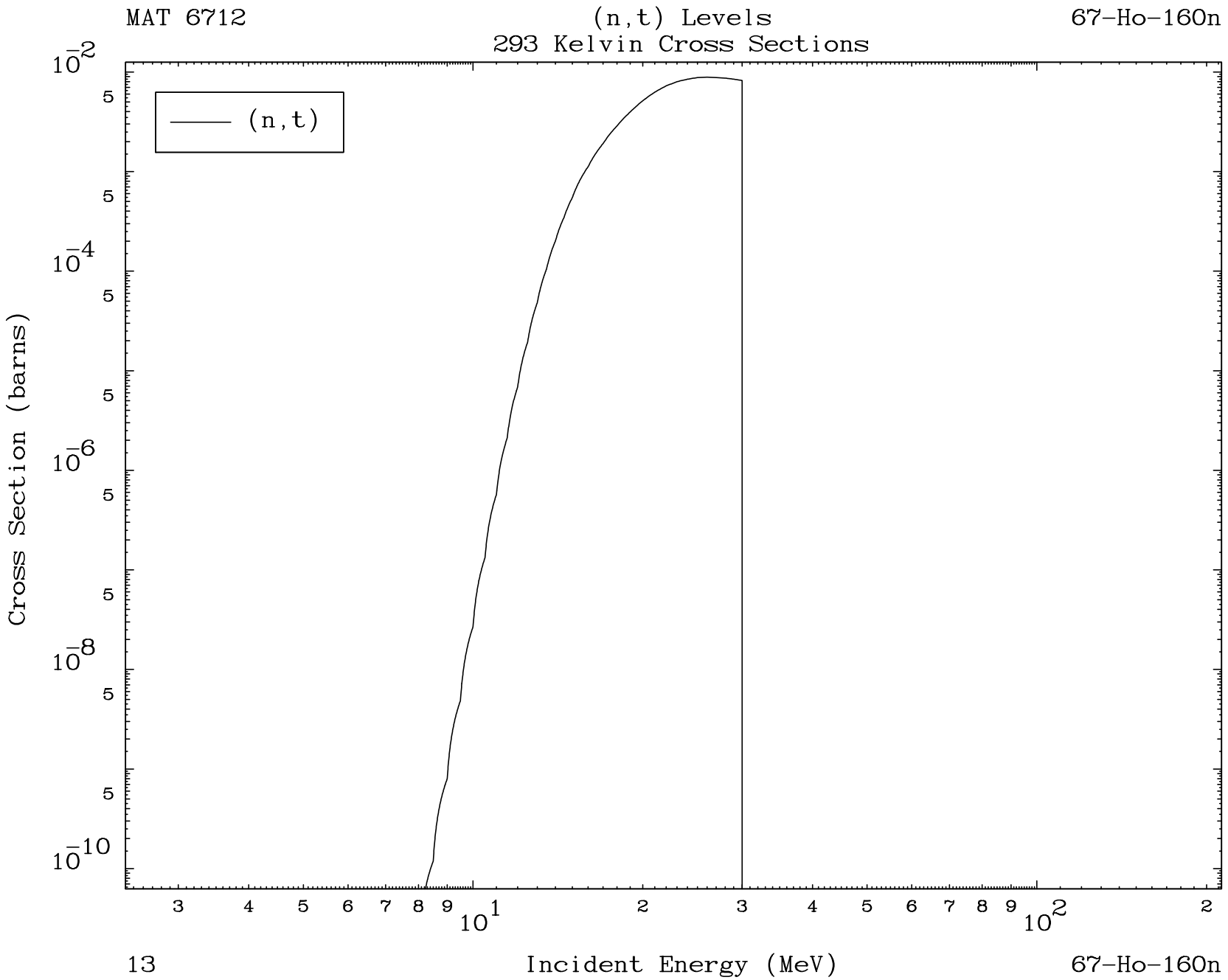

MAT 6712
(n,n') Levels
293 Kelvin Cross Sections
67-Ho-160n
Inelastic
MT= 51 (n,n') Level
MT= 52 (n,n') Level
MT= 53 (n,n') Level
MT= 54 (n,n') Level
MT= 55 (n,n') Level
MT= 56 (n,n') Level
MT= 57 (n,n') Level
MT= 58 (n,n') Level
Cross Section (barns)
Incident Energy (MeV)
8
67-Ho-160n

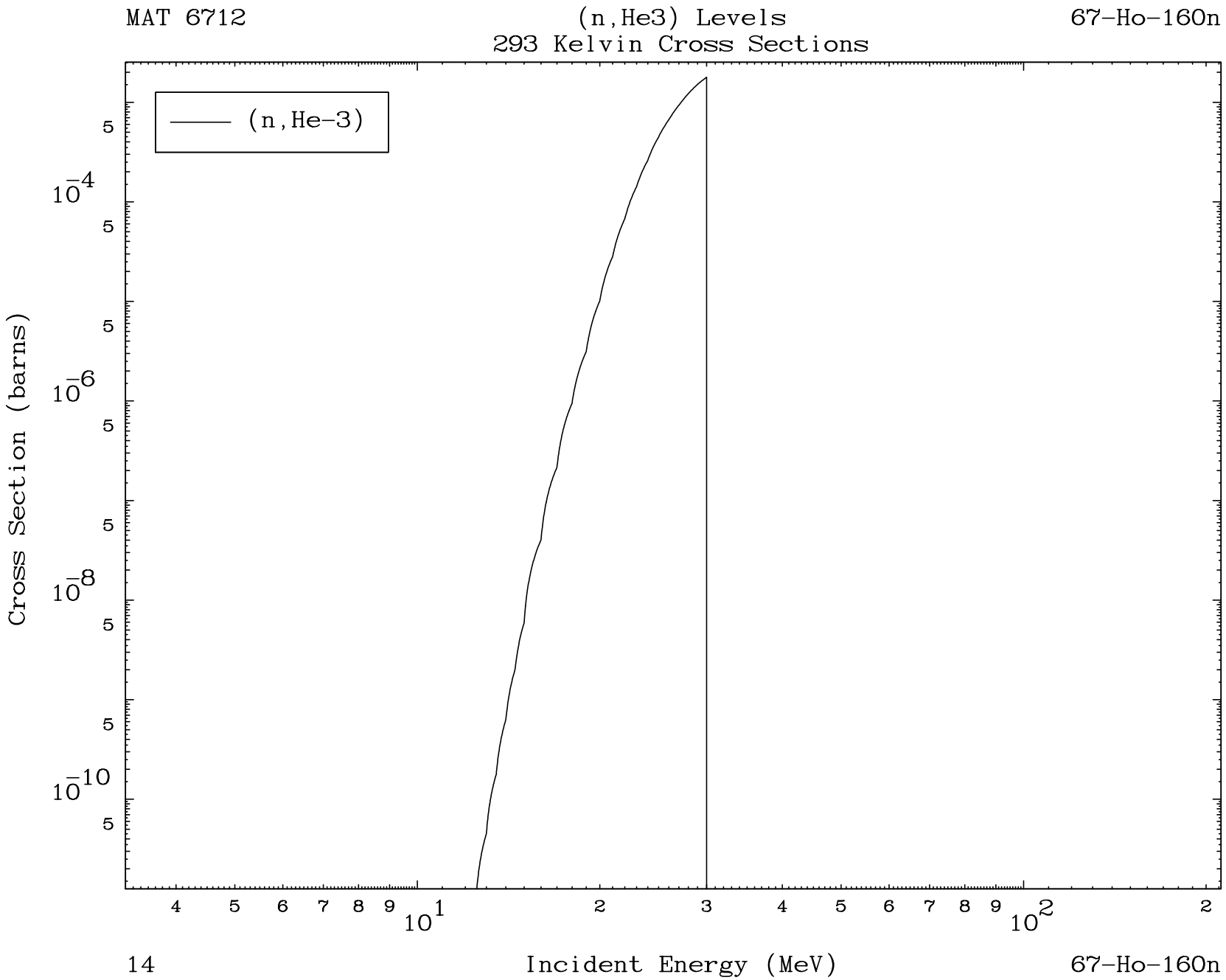

MAT 6712
(n,n') Levels
293 Kelvin Cross Sections
67-Ho-160n
Cross Section (barns)
Incident Energy (MeV)
Inelastic
MT= 59 (n,n') Level
MT= 60 (n,n') Level
MT= 61 (n,n') Level
MT= 62 (n,n') Level
MT= 63 (n,n') Level
MT= 64 (n,n') Level
MT= 65 (n,n') Level
MT= 66 (n,n') Level
9
67-Ho-160n

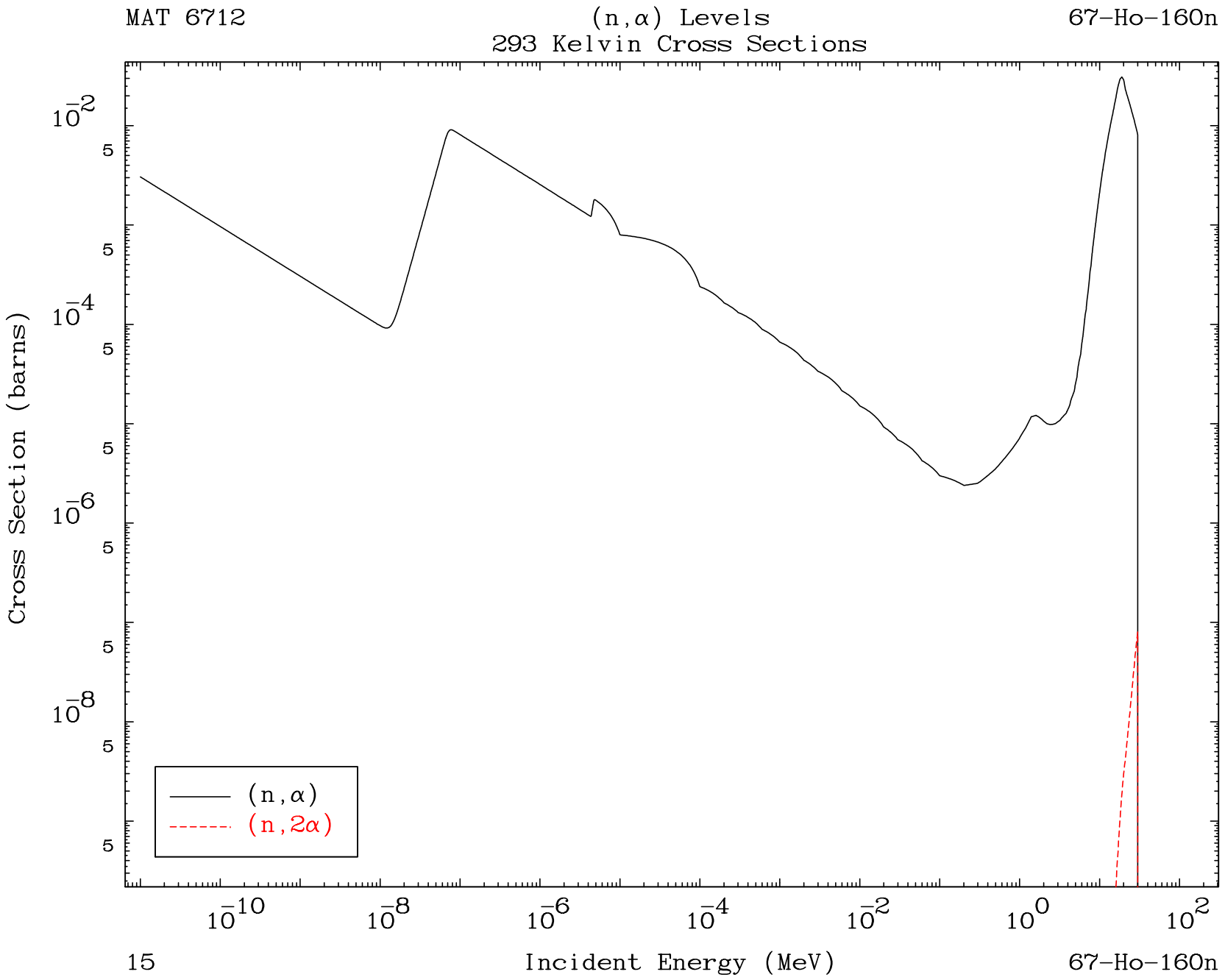

MAT 6712
(n,n') Levels
293 Kelvin Cross Sections
67-Ho-160n
Cross Section (barns)
10^0
10^-2
10^-4
10^-6
Inelastic
MT= 67 (n,n') Level
MT= 68 (n,n') Level
MT= 69 (n,n') Level
MT= 70 (n,n') Level
MT= 71 (n,n') Level
MT= 72 (n,n') Level
(n,n') Continuum
10^-5
10^-4
10^-3
10^-2
10^-1
10^0
10^1
10^2
10
Incident Energy (MeV)
67-Ho-160n

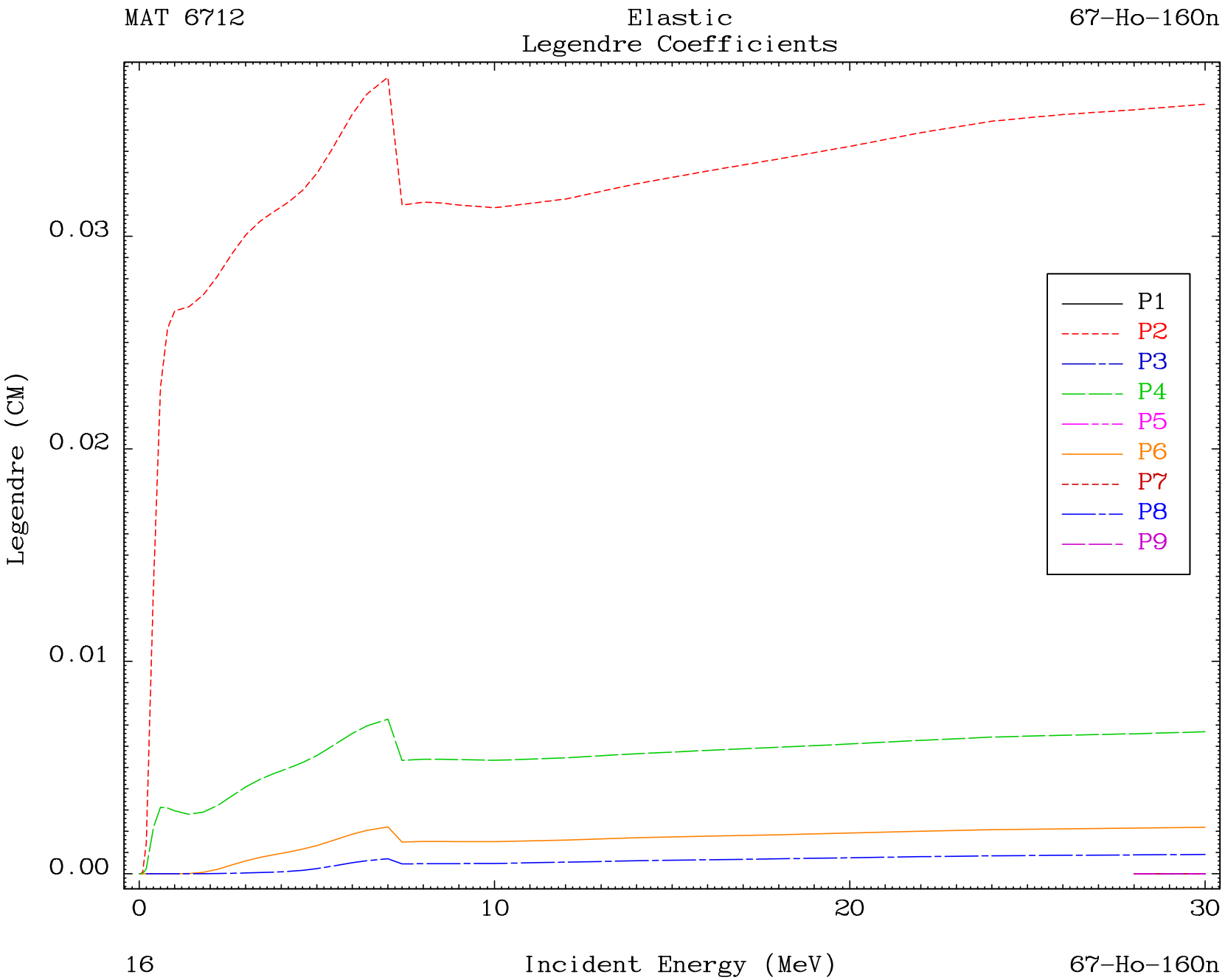

MAT 6712
(n,p) Levels
293 Kelvin Cross Sections
67-Ho-160n
Cross Section (barns)
(n,p)
Incident Energy (MeV)
11
67-Ho-160n

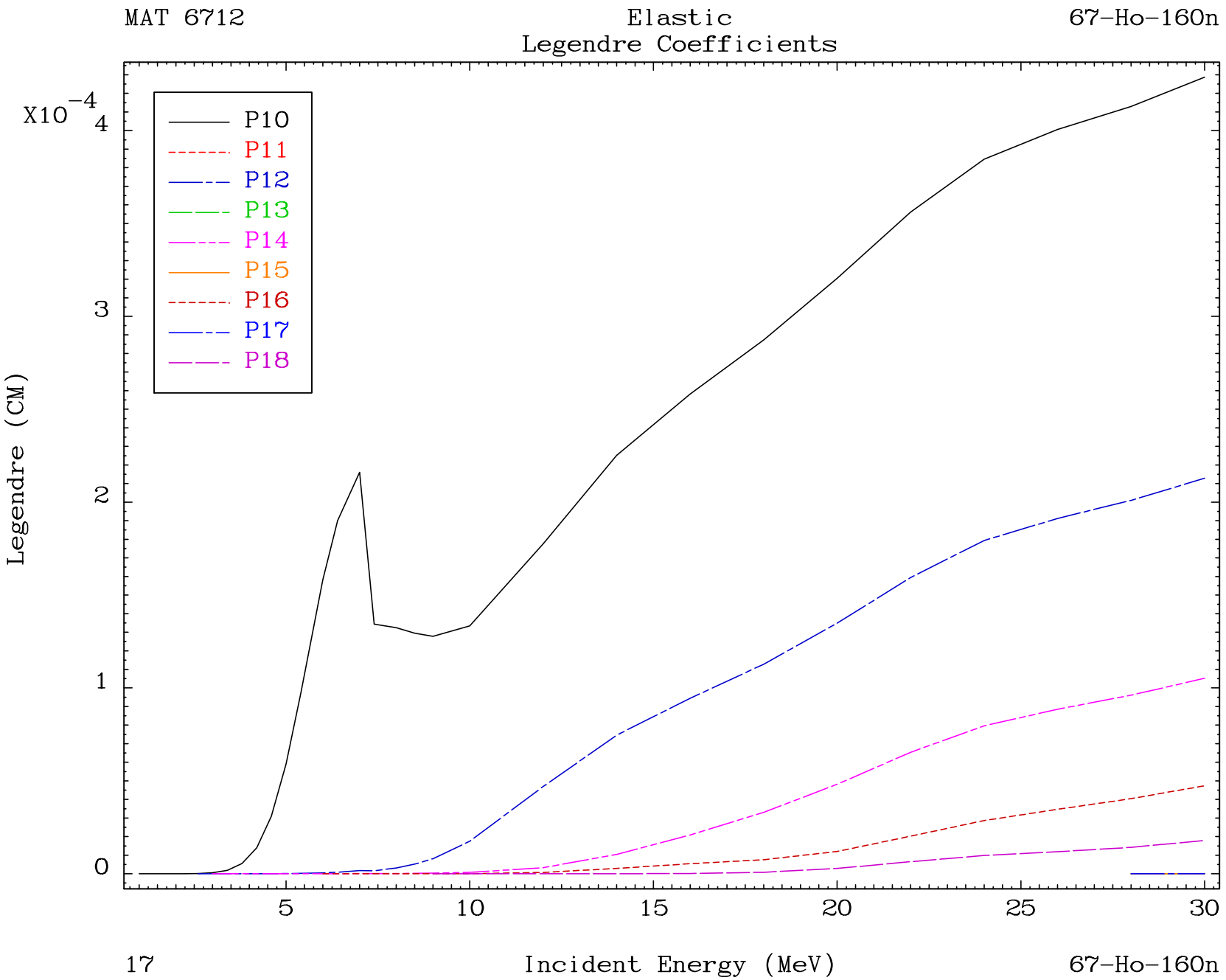

MAT 6712
(n,d) Levels
67-Ho-160n
293 Kelvin Cross Sections
(n,d)
Cross Section (barns)
Incident Energy (MeV)
12
67-Ho-160n

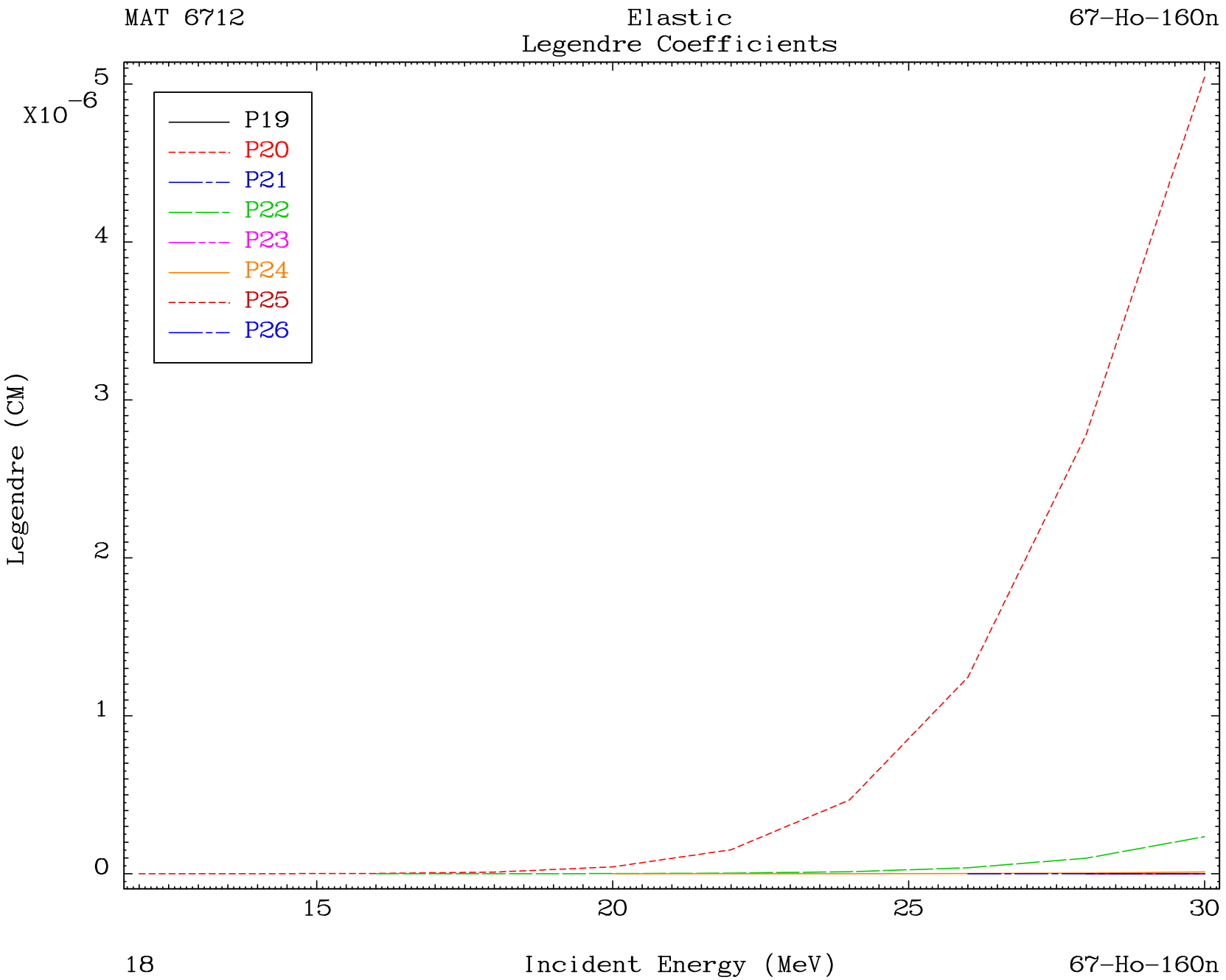

MAT 6712
(n,t) Levels
67-Ho-160n
293 Kelvin Cross Sections
(n,t)
Cross Section (barns)
Incident Energy (MeV)
13
67-Ho-160n

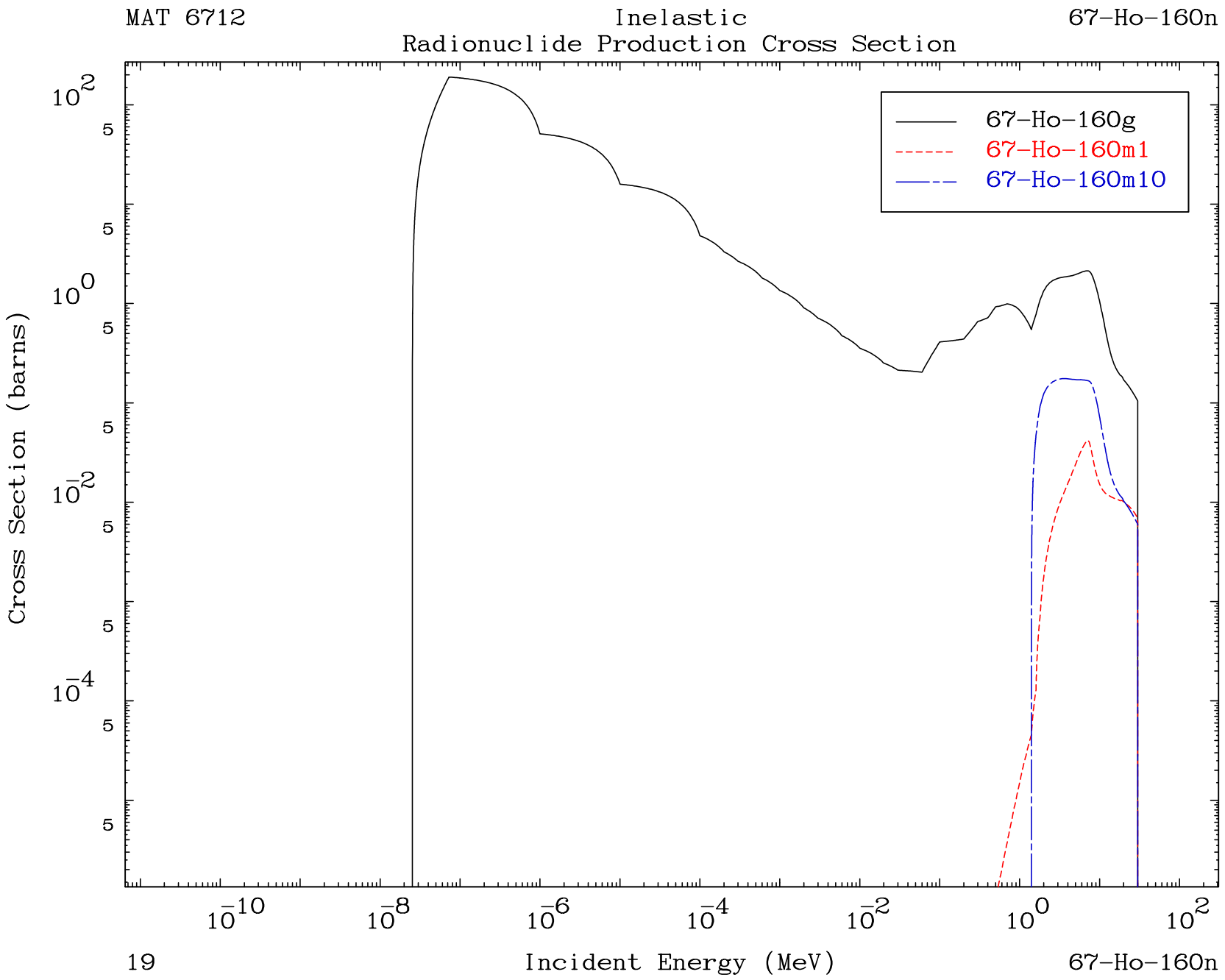

MAT 6712
(n,He3) Levels
67-Ho-160n
293 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
10-4
10-6
10-8
10-10
Incident Energy (MeV)
14
67-Ho-160n

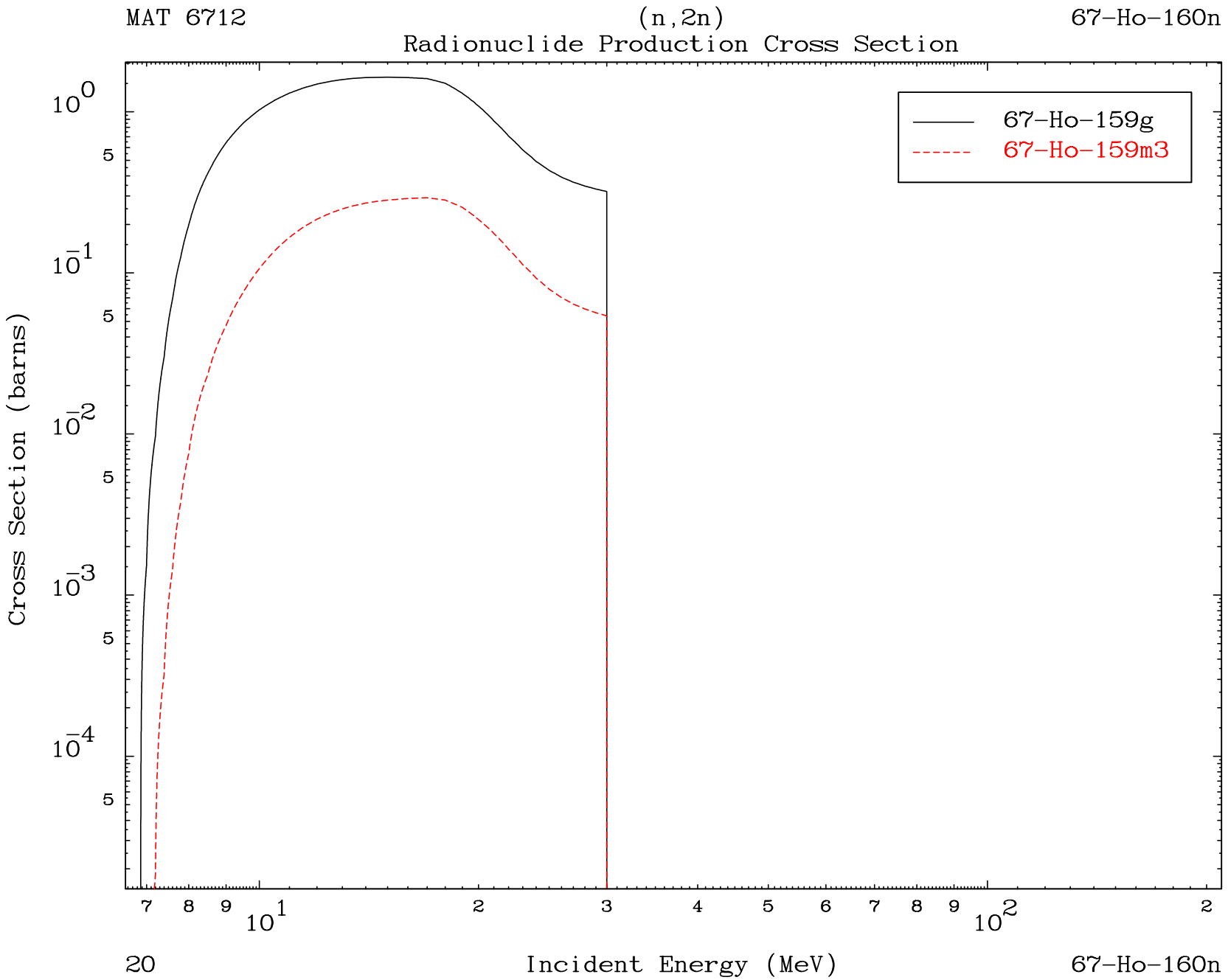

MAT 6712
(n,α) Levels
293 Kelvin Cross Sections
67-Ho-160n
Cross Section (barns)
10-2
5
10-4
5
10-6
5
10-8
5
(n,α)
(n,2α)
10-10
10-8
10-6
10-4
10-2
100
102
Incident Energy (MeV)
15
67-Ho-160n

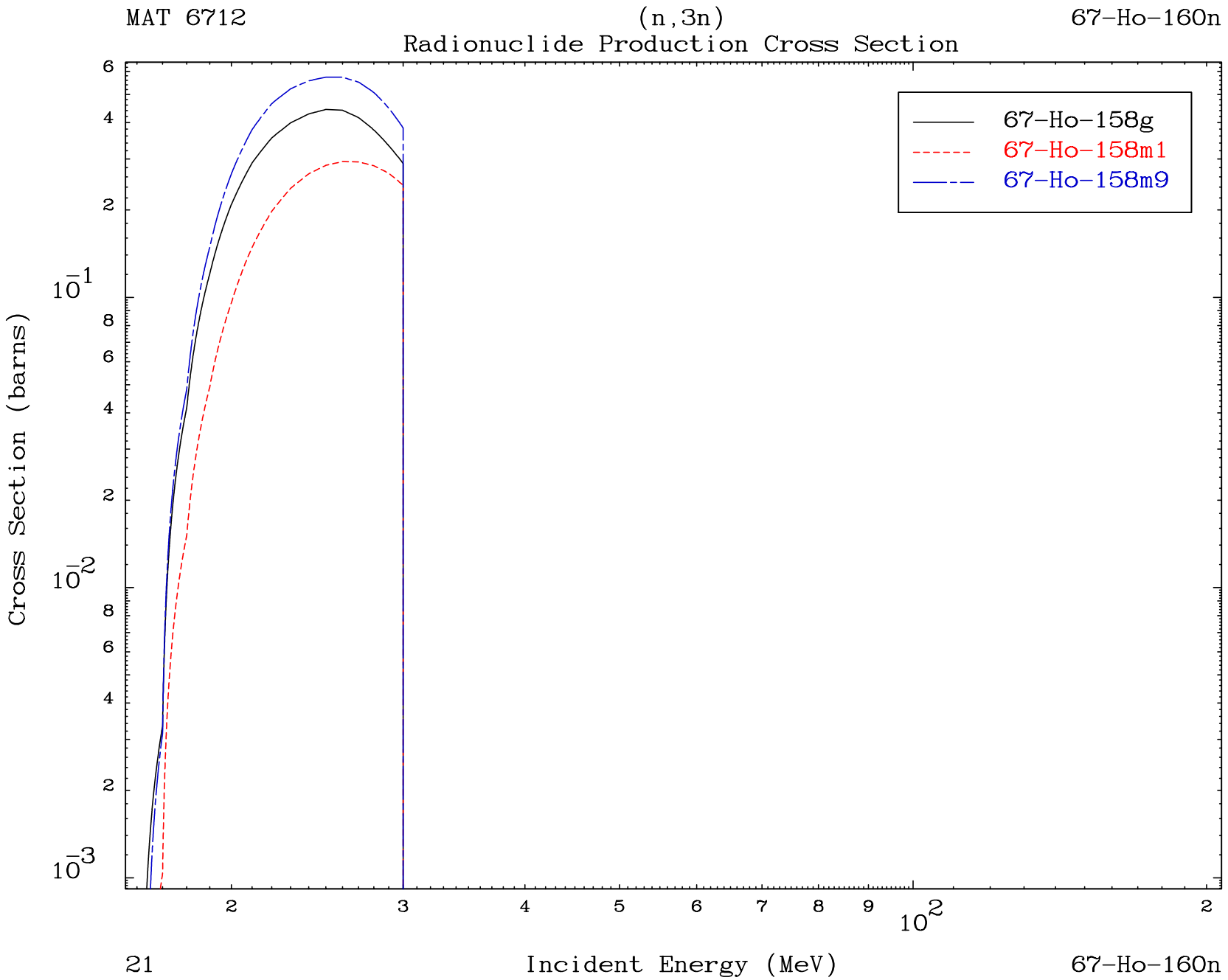

MAT 6712
Elastic
Legendre Coefficients
67-Ho-160n
0.03
0.02
0.01
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
10
20
30
16
Incident Energy (MeV)
67-Ho-160n

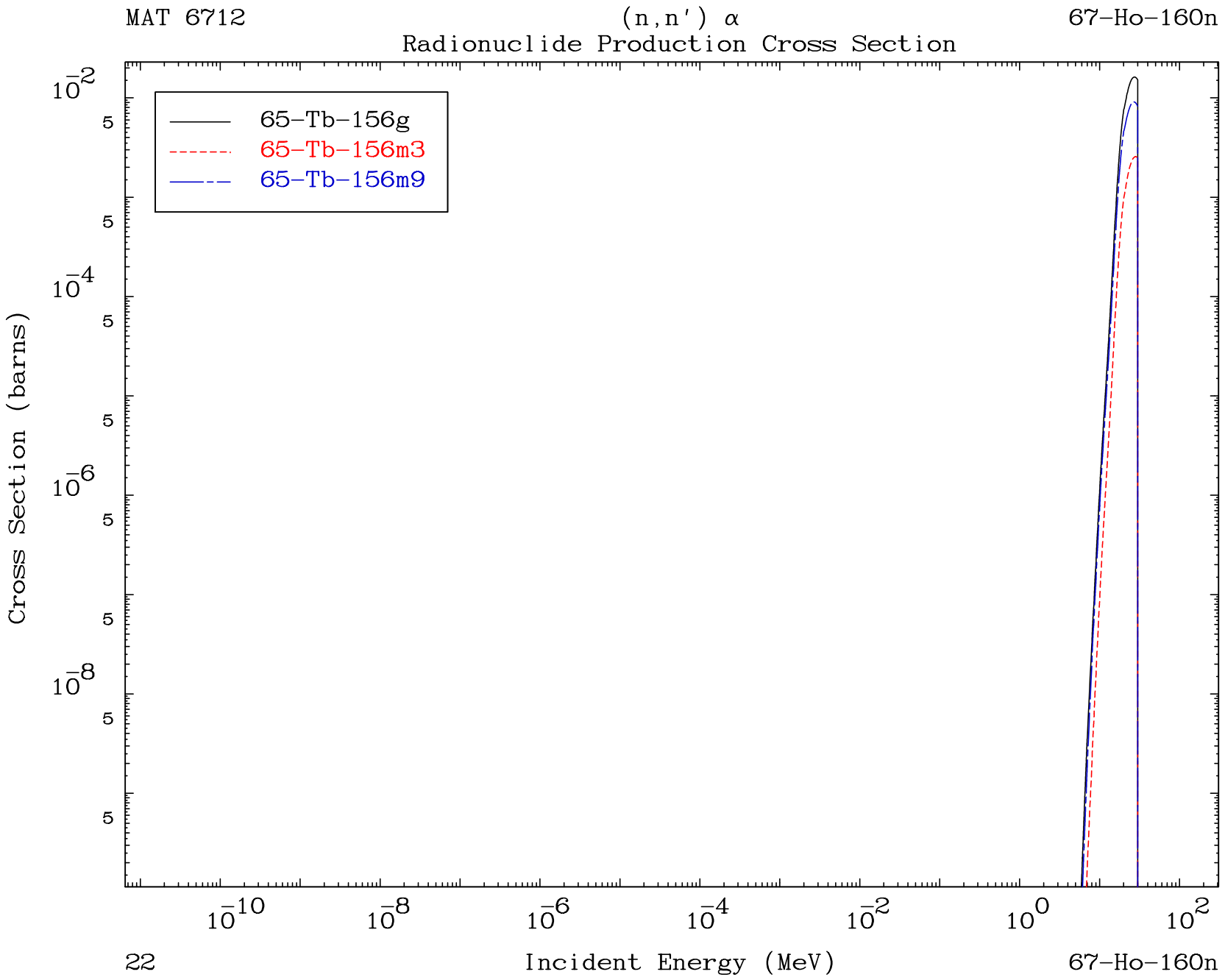

MAT 6712
Elastic
Legendre Coefficients
67-Ho-160n
X10^-4
4
3
2
1
0
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
5
10
15
20
25
30
17
Incident Energy (MeV)
67-Ho-160n

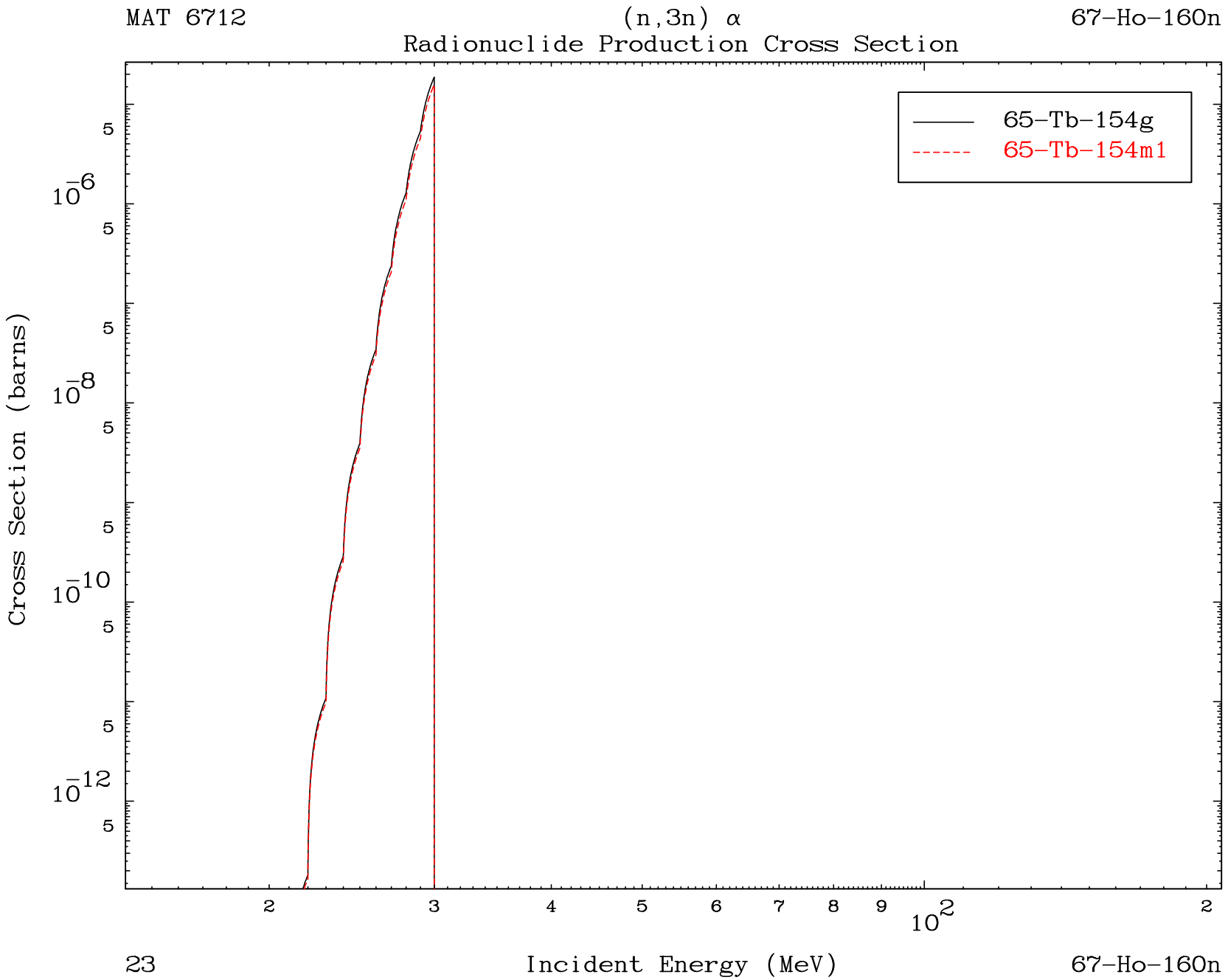

MAT 6712
Elastic
Legendre Coefficients
67-Ho-160n
X10 −6
5
4
3
2
1
0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
15
20
25
30
18
Incident Energy (MeV)
67-Ho-160n

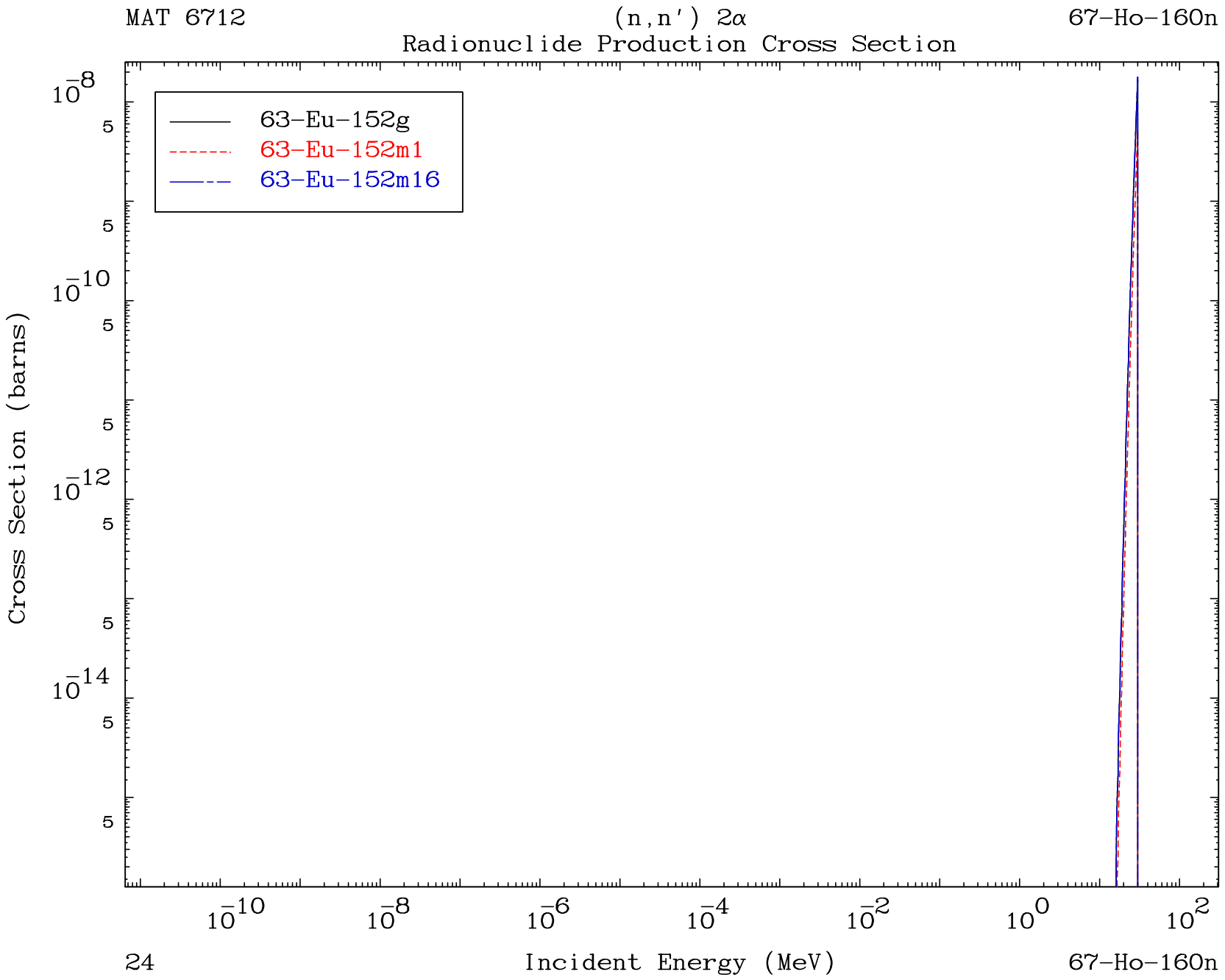

MAT 6712
Inelastic
67-Ho-160n
Radionuclide Production Cross Section
67-Ho-160g
67-Ho-160m1
67-Ho-160m10
Cross Section (barns)
Incident Energy (MeV)
19
67-Ho-160n

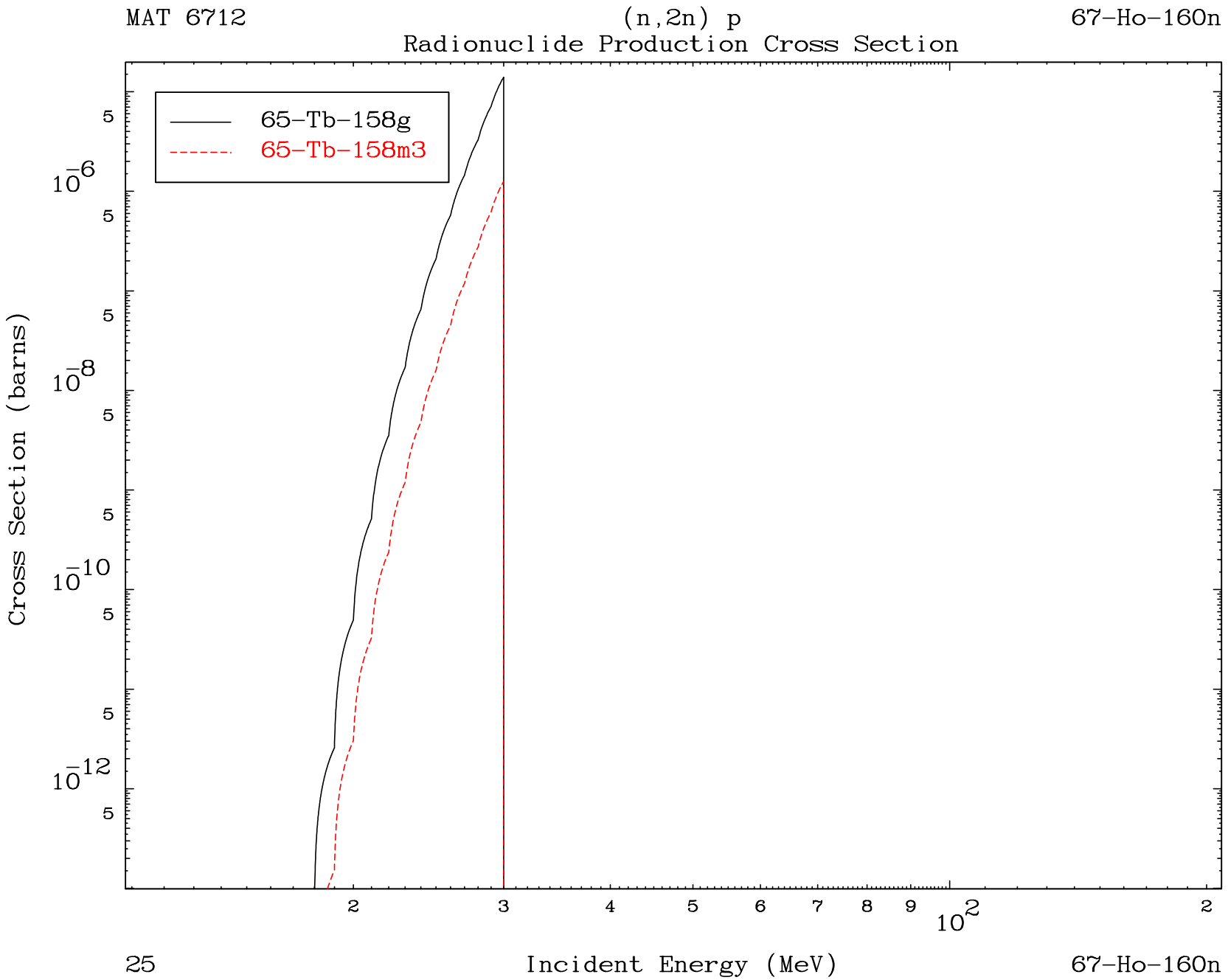

MAT 6712
(n,2n)
67-Ho-160n
Radionuclide Production Cross Section
67-Ho-159g
67-Ho-159m3
Cross Section (barns)
Incident Energy (MeV)
20
67-Ho-160n

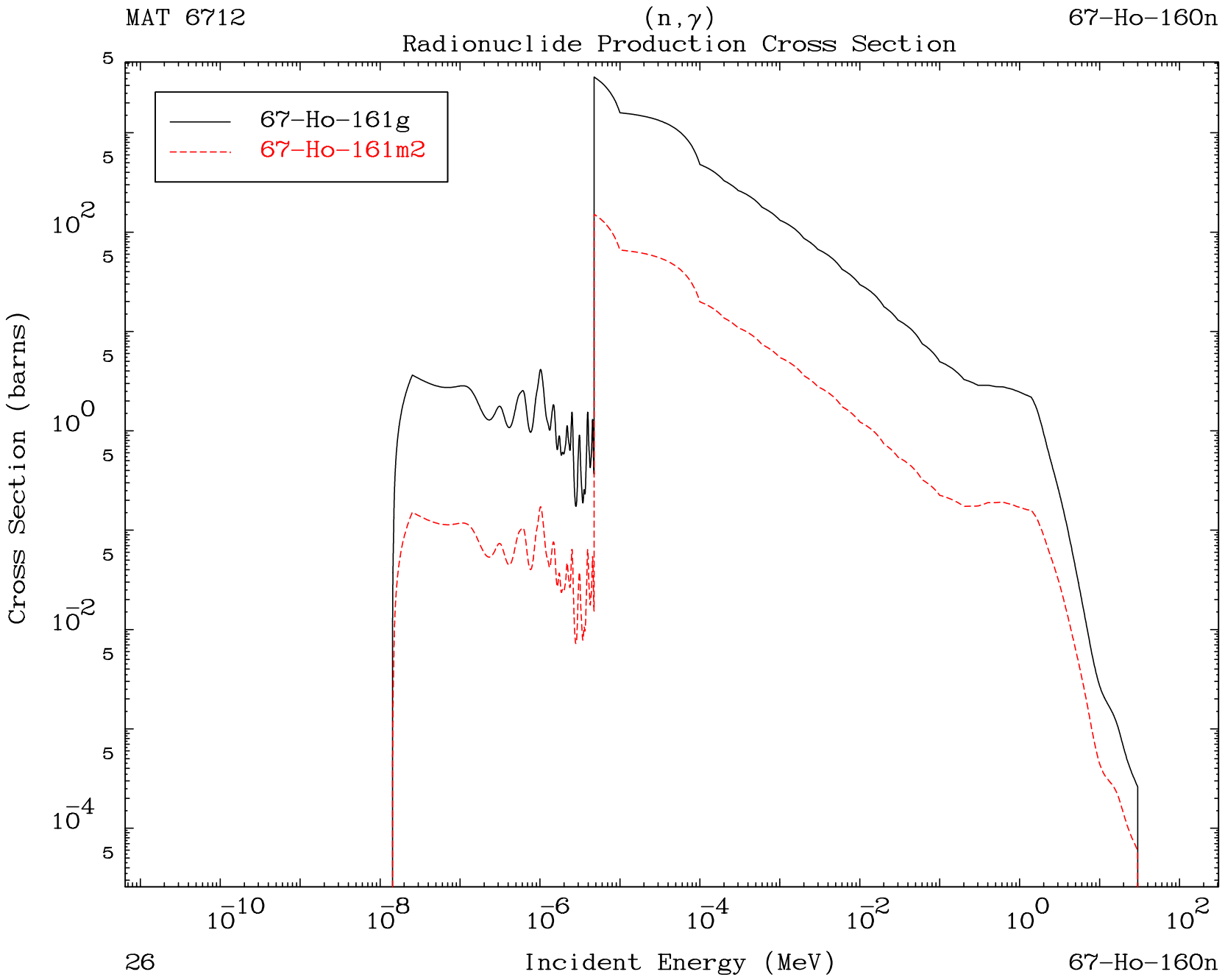

MAT 6712
(n,3n)
67-Ho-160n
Radionuclide Production Cross Section
67-Ho-158g
67-Ho-158m1
67-Ho-158m9
Cross Section (barns)
Incident Energy (MeV)
21
67-Ho-160n

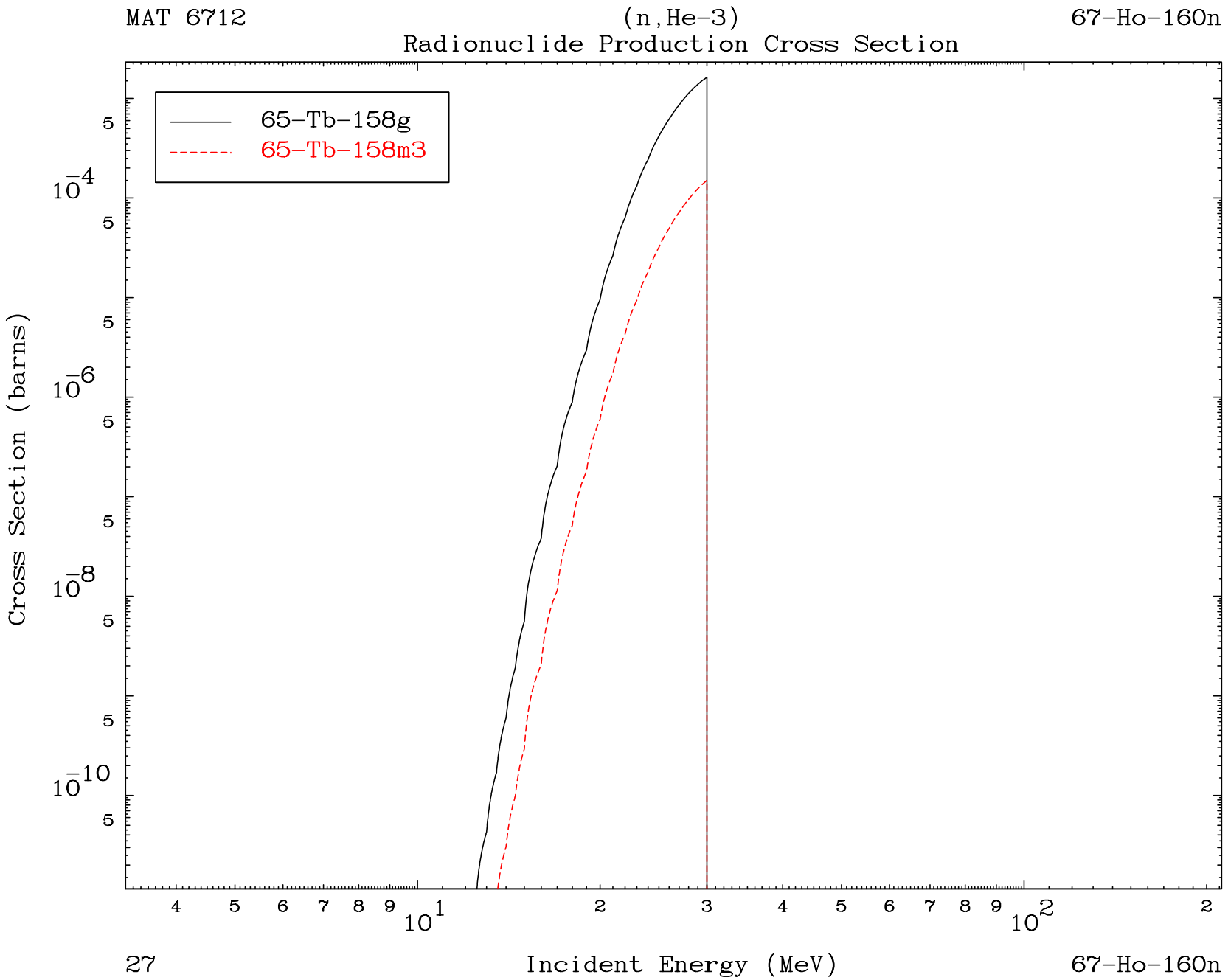

MAT 6712
(n,n') α
67-Ho-160n
Radionuclide Production Cross Section
65-Tb-156g
65-Tb-156m3
65-Tb-156m9
Cross Section (barns)
Incident Energy (MeV)
22
67-Ho-160n

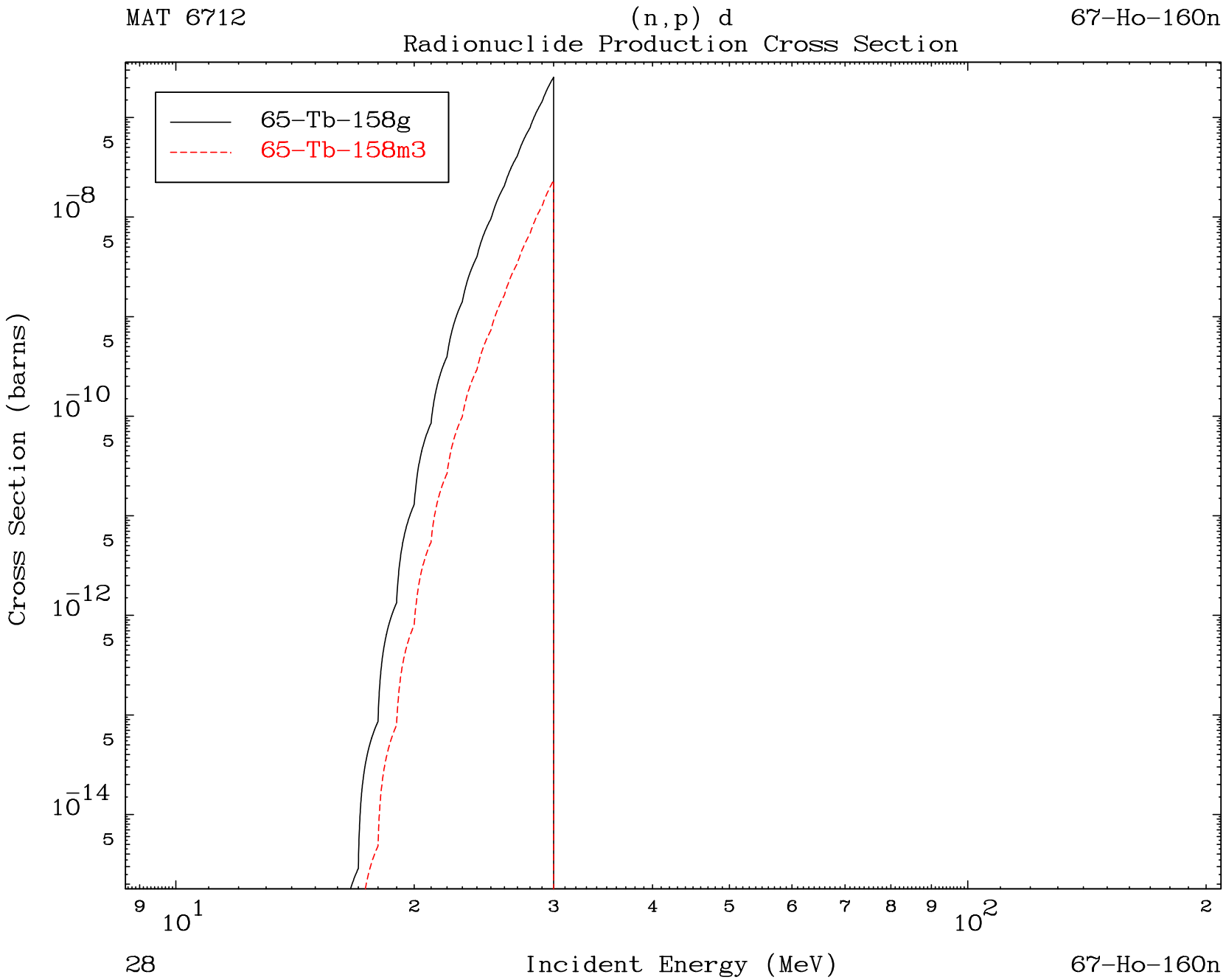

MAT 6712
(n,3n) α
67-Ho-160n
Radionuclide Production Cross Section
65-Tb-154g
65-Tb-154m1
Cross Section (barns)
10-6
10-8
10-10
10-12
5
2
3
4
5
6
7
8
9
10 2
2
23
Incident Energy (MeV)
67-Ho-160n


MAT 6712
(n,n') 2α
67-Ho-160n
Radionuclide Production Cross Section
63-Eu-152g
63-Eu-152m1
63-Eu-152m16
Cross Section (barns)
Incident Energy (MeV)
24
67-Ho-160n


MAT 6712
(n,2n) p
67-Ho-160n
Radionuclide Production Cross Section
65-Tb-158g
65-Tb-158m3
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
2
3
4
5
6
7
8
9
10^2
2
25
Incident Energy (MeV)
67-Ho-160n


MAT 6712
(n,γ)
67-Ho-160n
Radionuclide Production Cross Section
67-Ho-161g
67-Ho-161m2
Cross Section (barns)
Incident Energy (MeV)
26
67-Ho-160n


MAT 6712
(n,He-3)
67-Ho-160n
Radionuclide Production Cross Section
65-Tb-158g
65-Tb-158m3
Cross Section (barns)
10-4
10-6
10-8
10-10
Incident Energy (MeV)
27
67-Ho-160n


MAT 6712
(n,p) d
67-Ho-160n
Radionuclide Production Cross Section
65-Tb-158g
65-Tb-158m3
Cross Section (barns)
Incident Energy (MeV)
28
67-Ho-160n