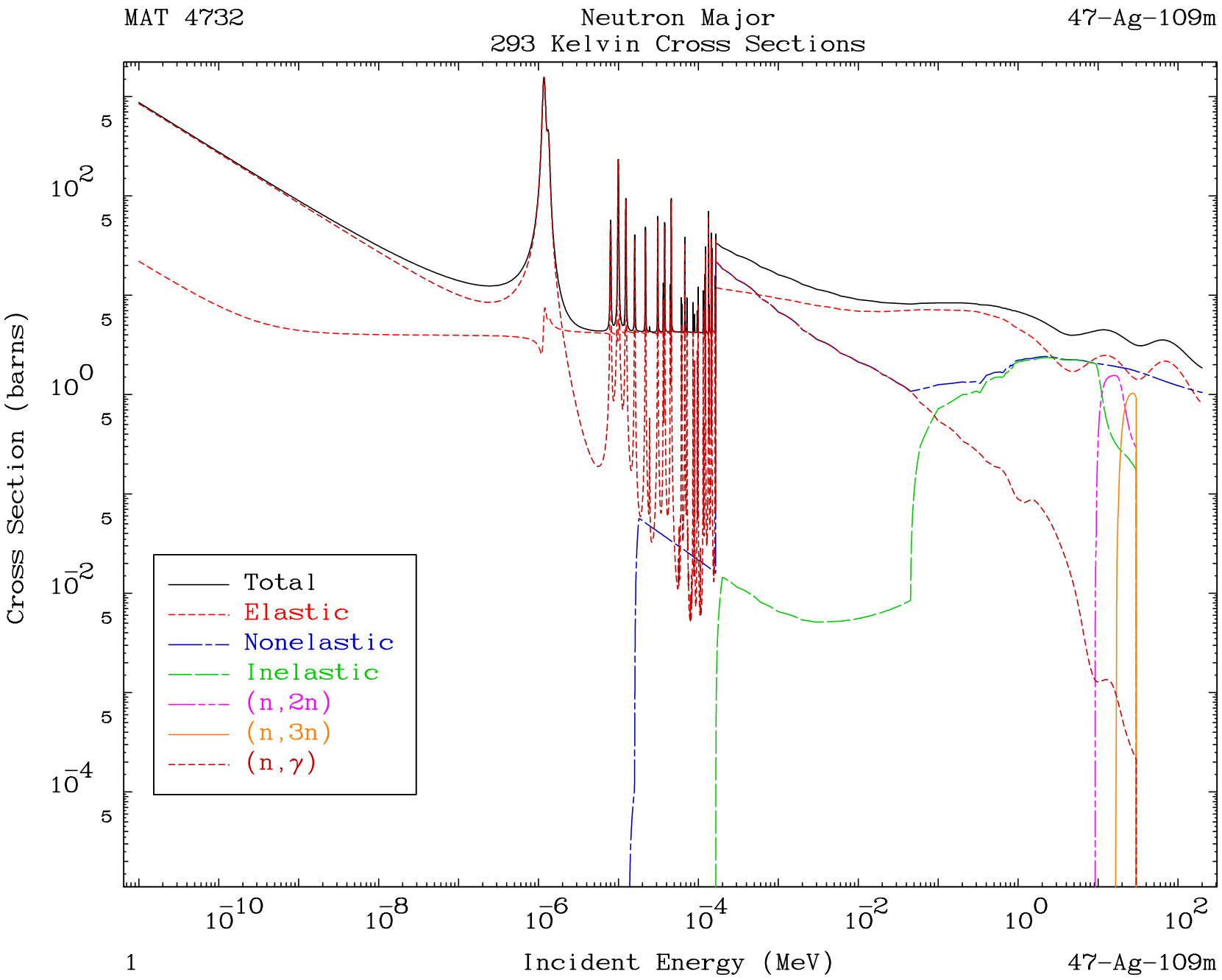
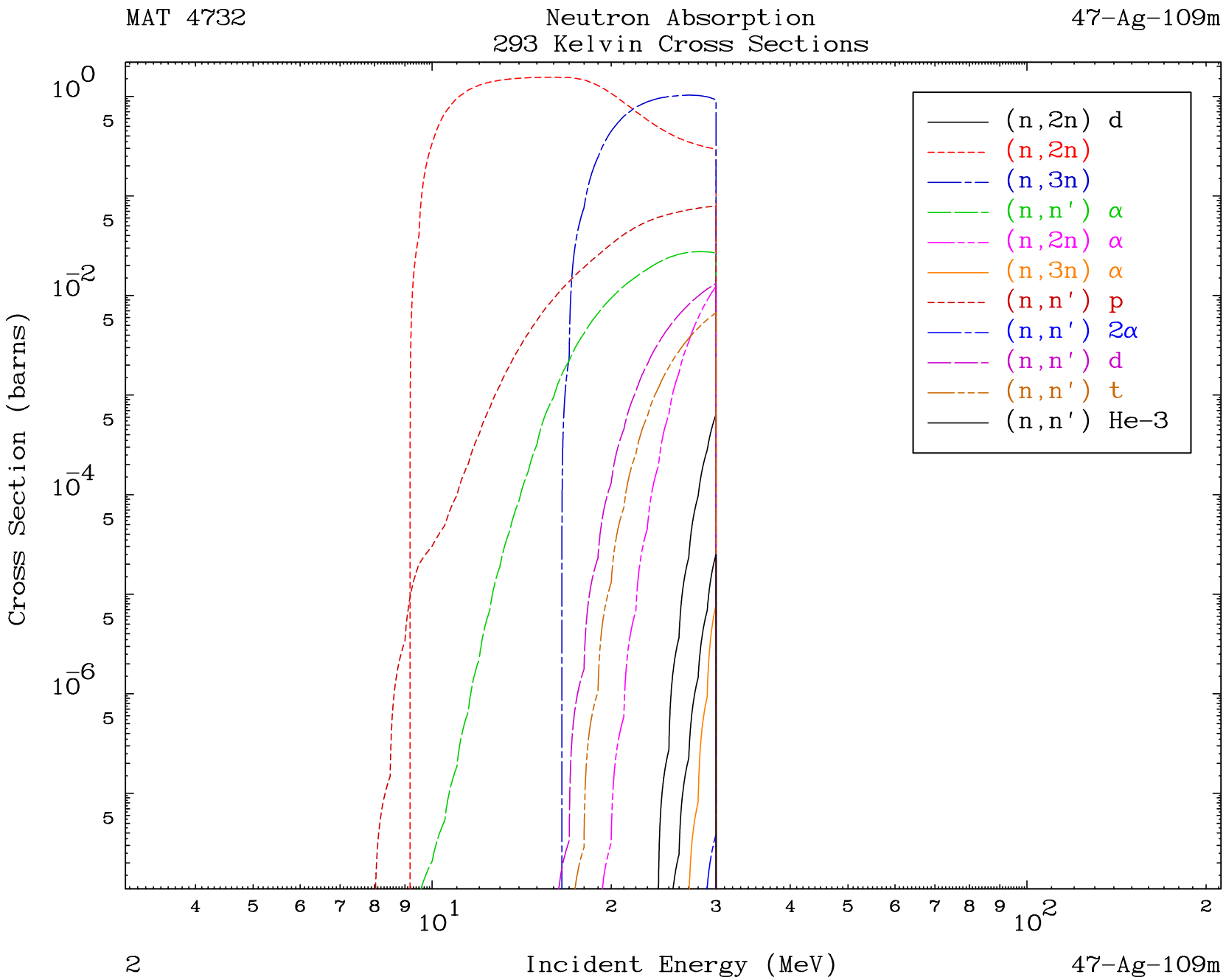
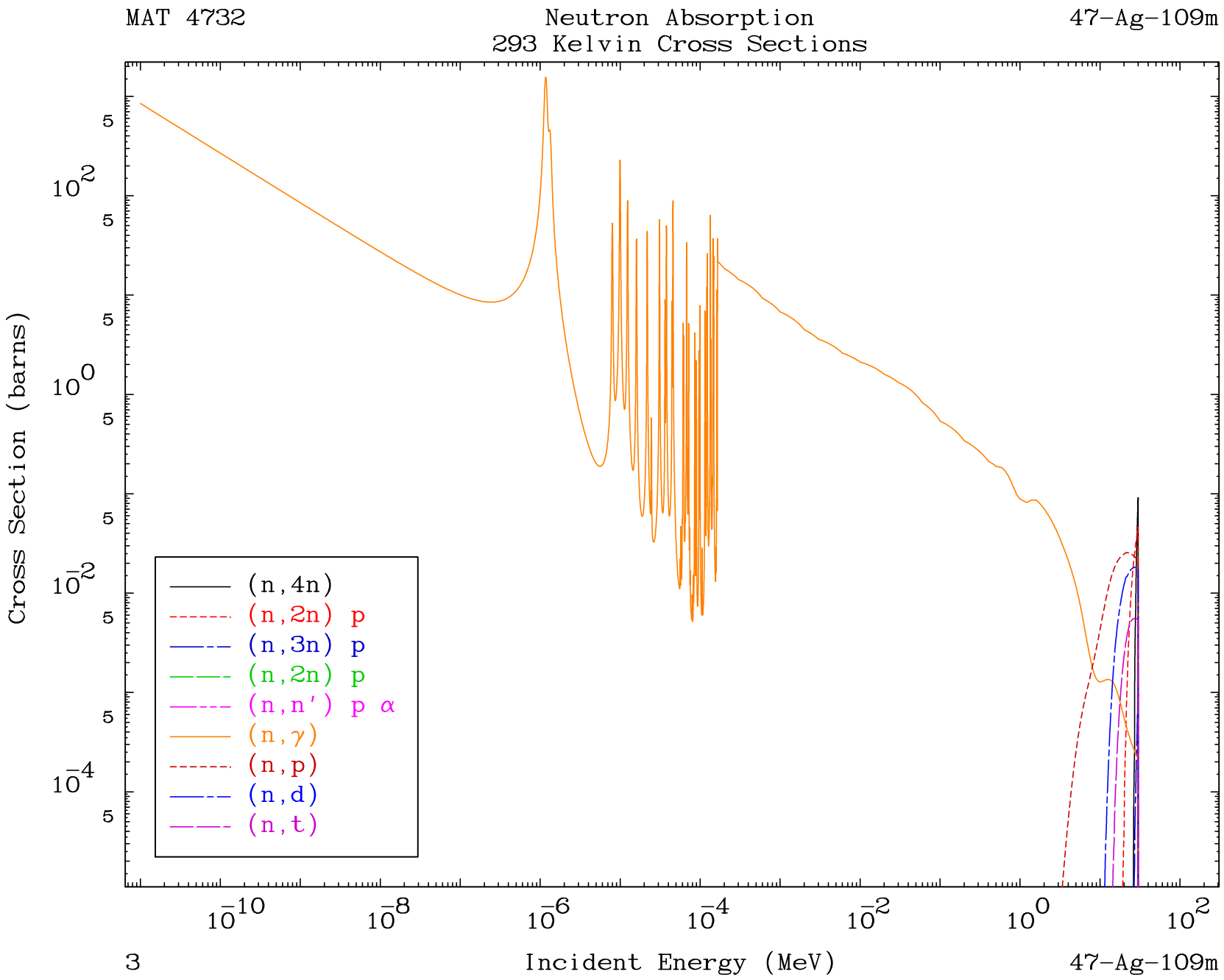
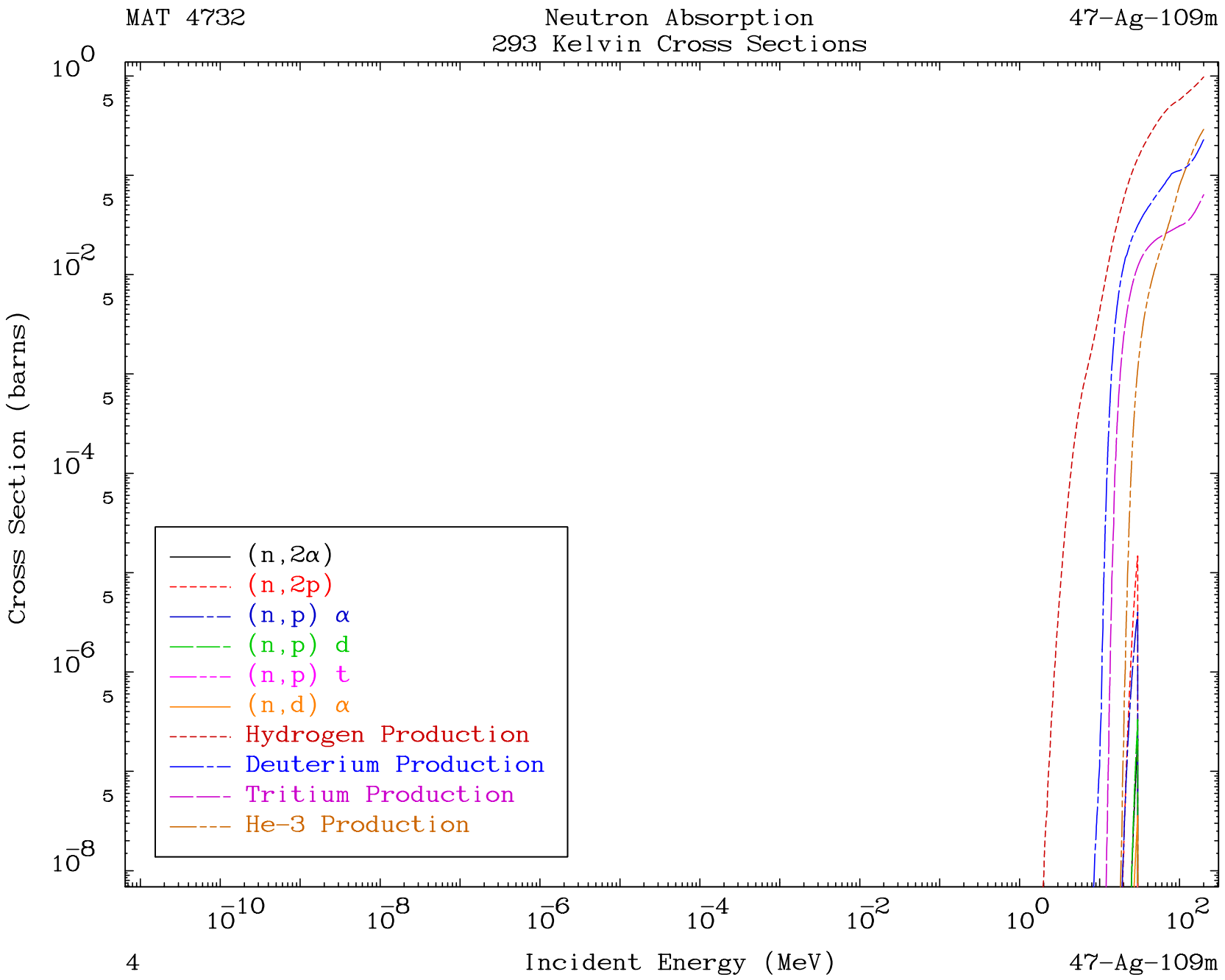
Program EVALPLOT
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

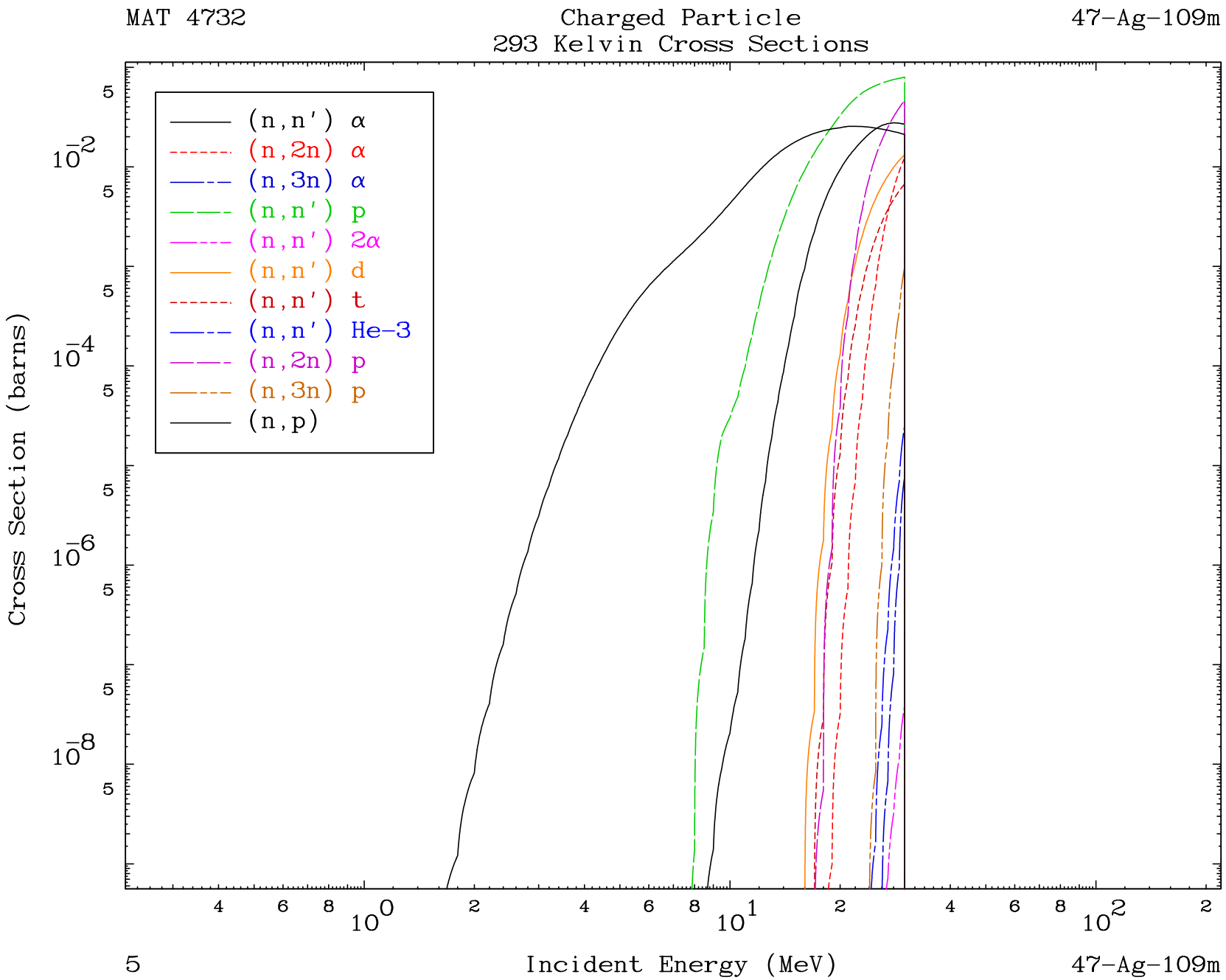
Press Mouse Button to Start

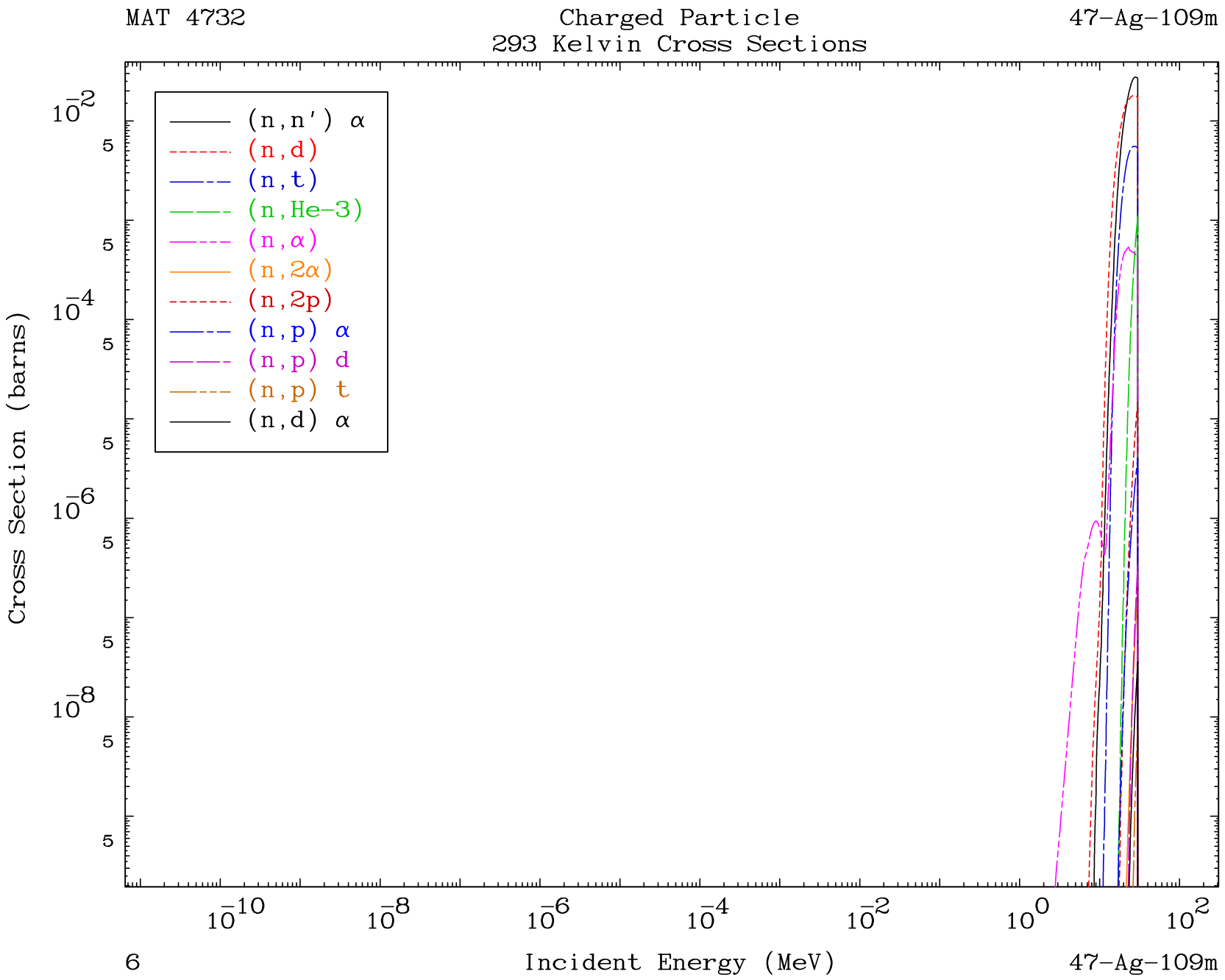

MAT 4732
Neutron Major
47-Ag-109m
293 Kelvin Cross Sections
Cross Section (barns)
Incident Energy (MeV)
Total
Elastic
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)
47-Ag-109m
1

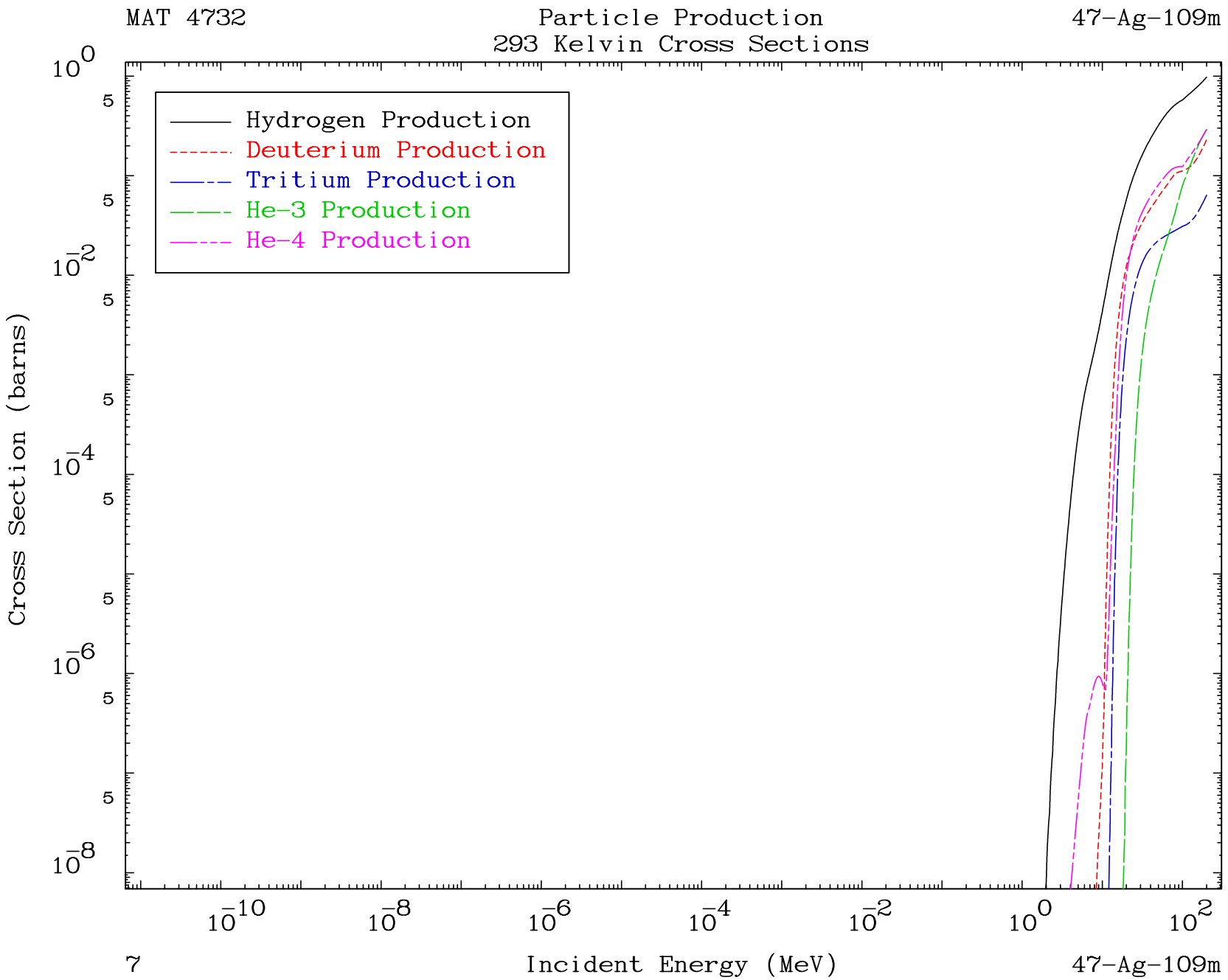

MAT 4732
Neutron Absorption
293 Kelvin Cross Sections
47-Ag-109m
Cross Section (barns)
Incident Energy (MeV)
47-Ag-109m
2
(n,2n) d
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
(n,n') He-3

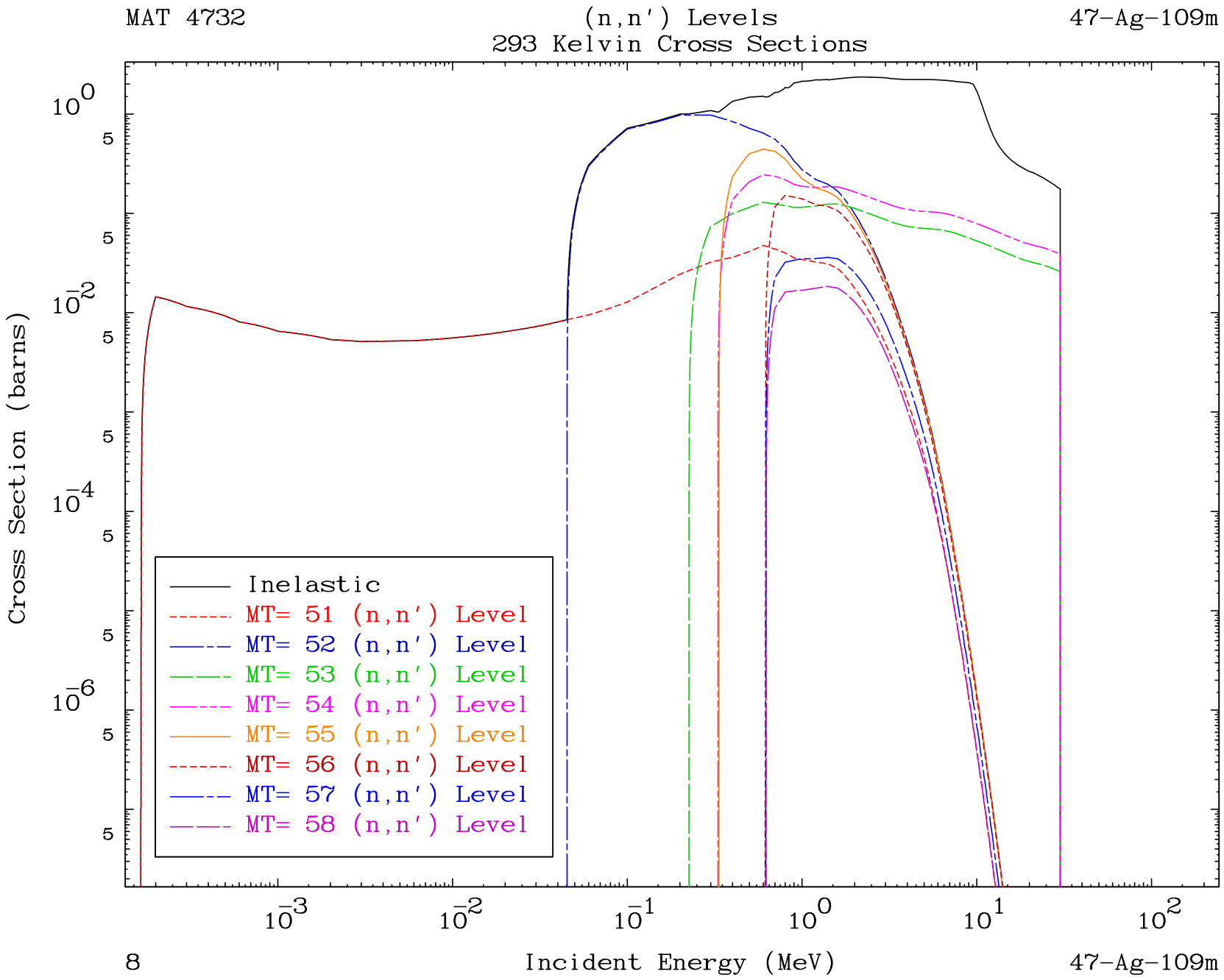

MAT 4732
Neutron Absorption
293 Kelvin Cross Sections
47-Ag-109m
Cross Section (barns)
Incident Energy (MeV)
(n,4n)
(n,2n) p
(n,3n) p
(n,2n) p
(n,n') p α
(n,γ)
(n,p)
(n,d)
(n,t)
3
47-Ag-109m

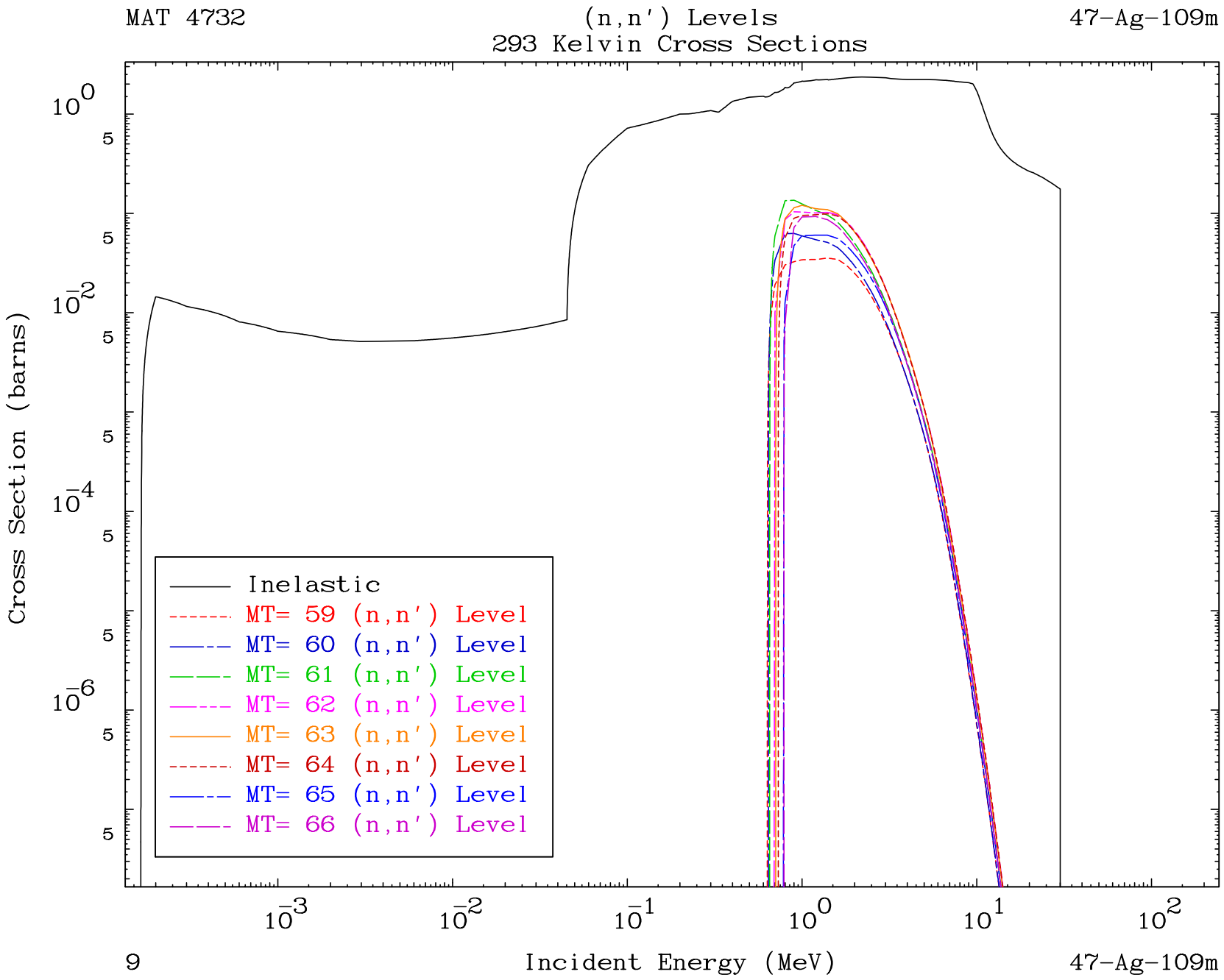

MAT 4732
Neutron Absorption
293 Kelvin Cross Sections
47-Ag-109m
Cross Section (barns)
Incident Energy (MeV)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
4
47-Ag-109m

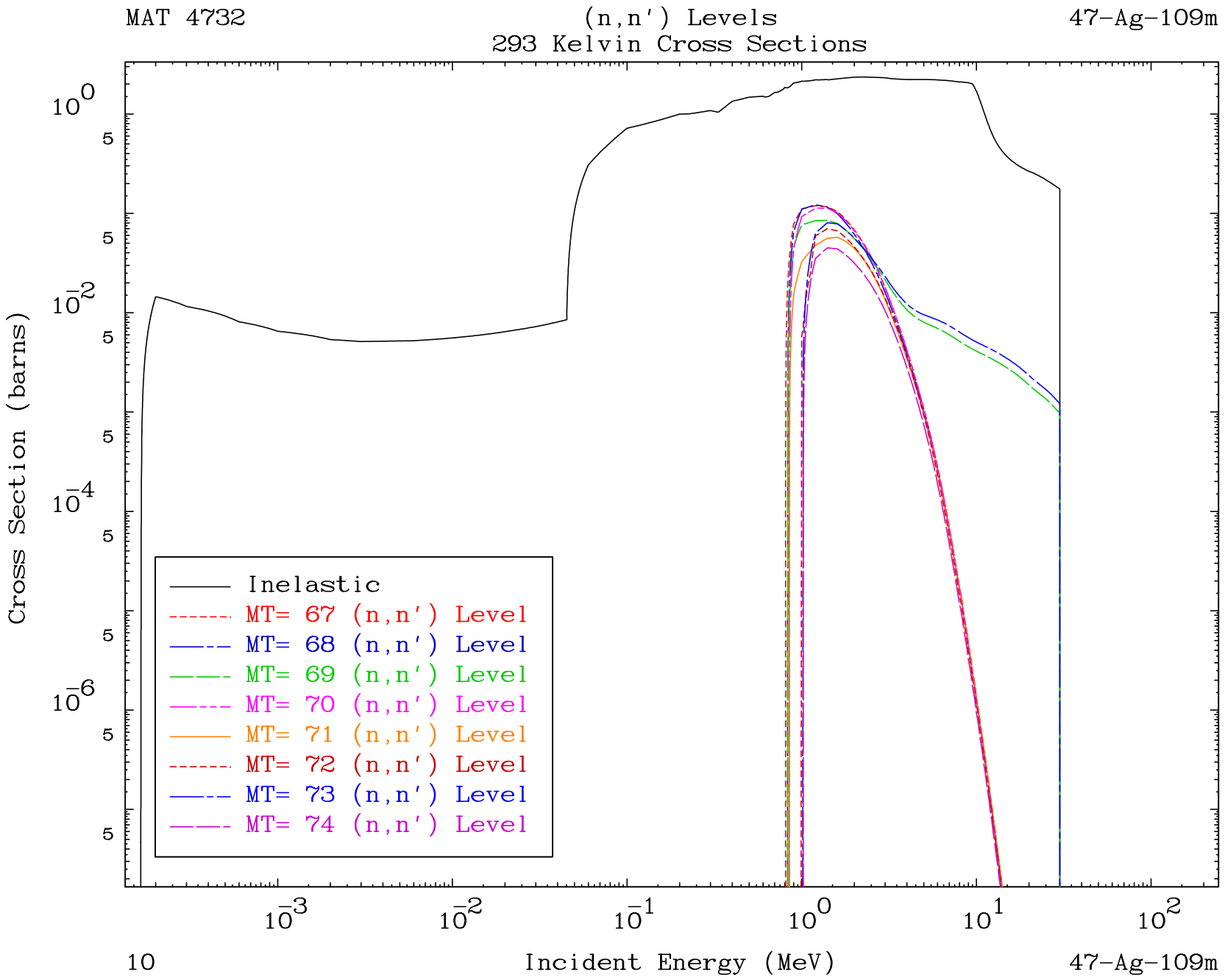

MAT 4732
Charged Particle
293 Kelvin Cross Sections
47-Ag-109m
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
(n,3n) p
(n,p)
Cross Section (barns)
Incident Energy (MeV)
47-Ag-109m

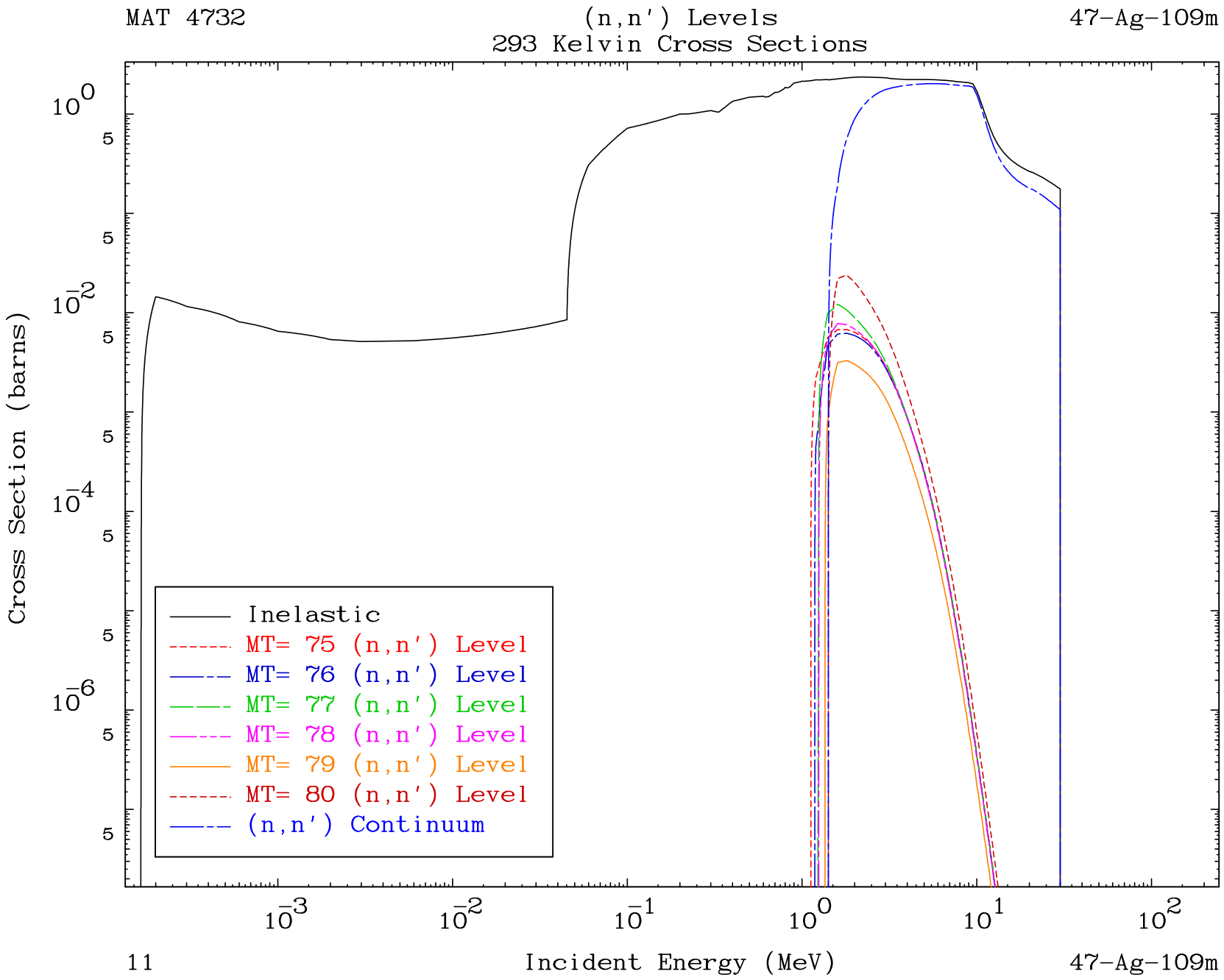

MAT 4732
Charged Particle
293 Kelvin Cross Sections
47-Ag-109m
(n,n') α
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
47-Ag-109m
6

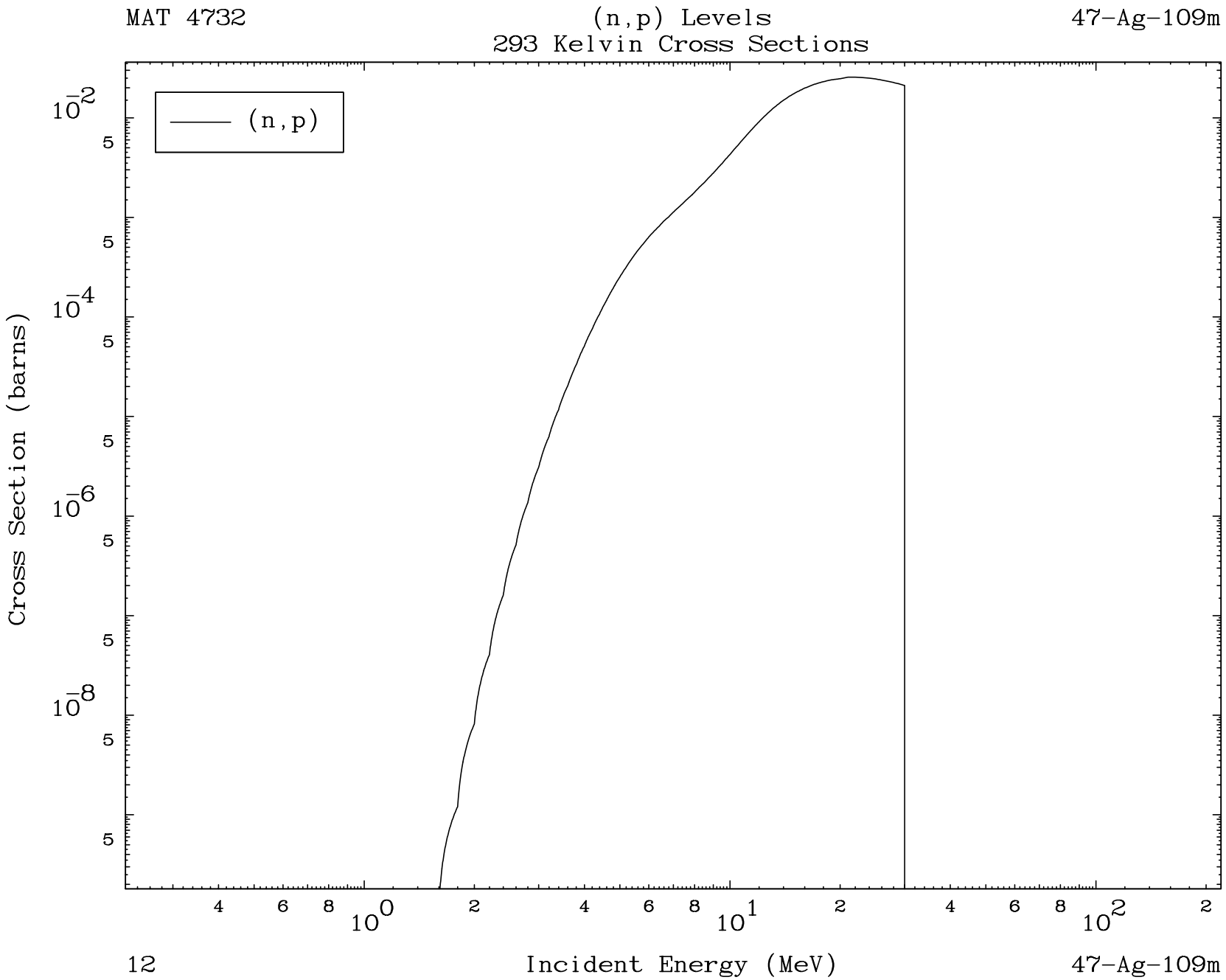

MAT 4732
Particle Production
293 Kelvin Cross Sections
47-Ag-109m
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production
Cross Section (barns)
Incident Energy (MeV)
47-Ag-109m
7

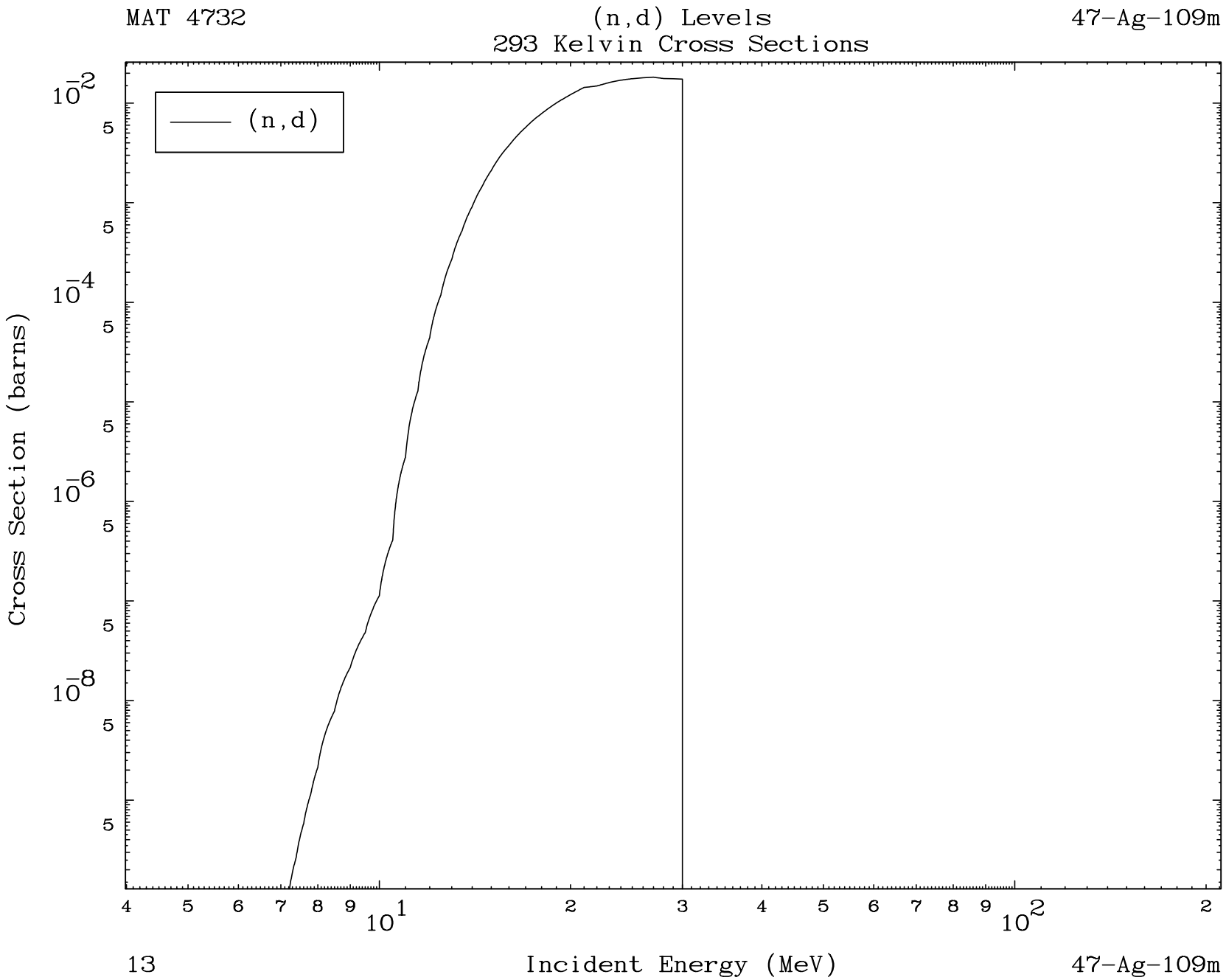

MAT 4732
(n,n') Levels
293 Kelvin Cross Sections
47-Ag-109m
Cross Section (barns)
Incident Energy (MeV)
Inelastic
MT= 51 (n,n') Level
MT= 52 (n,n') Level
MT= 53 (n,n') Level
MT= 54 (n,n') Level
MT= 55 (n,n') Level
MT= 56 (n,n') Level
MT= 57 (n,n') Level
MT= 58 (n,n') Level
8
47-Ag-109m

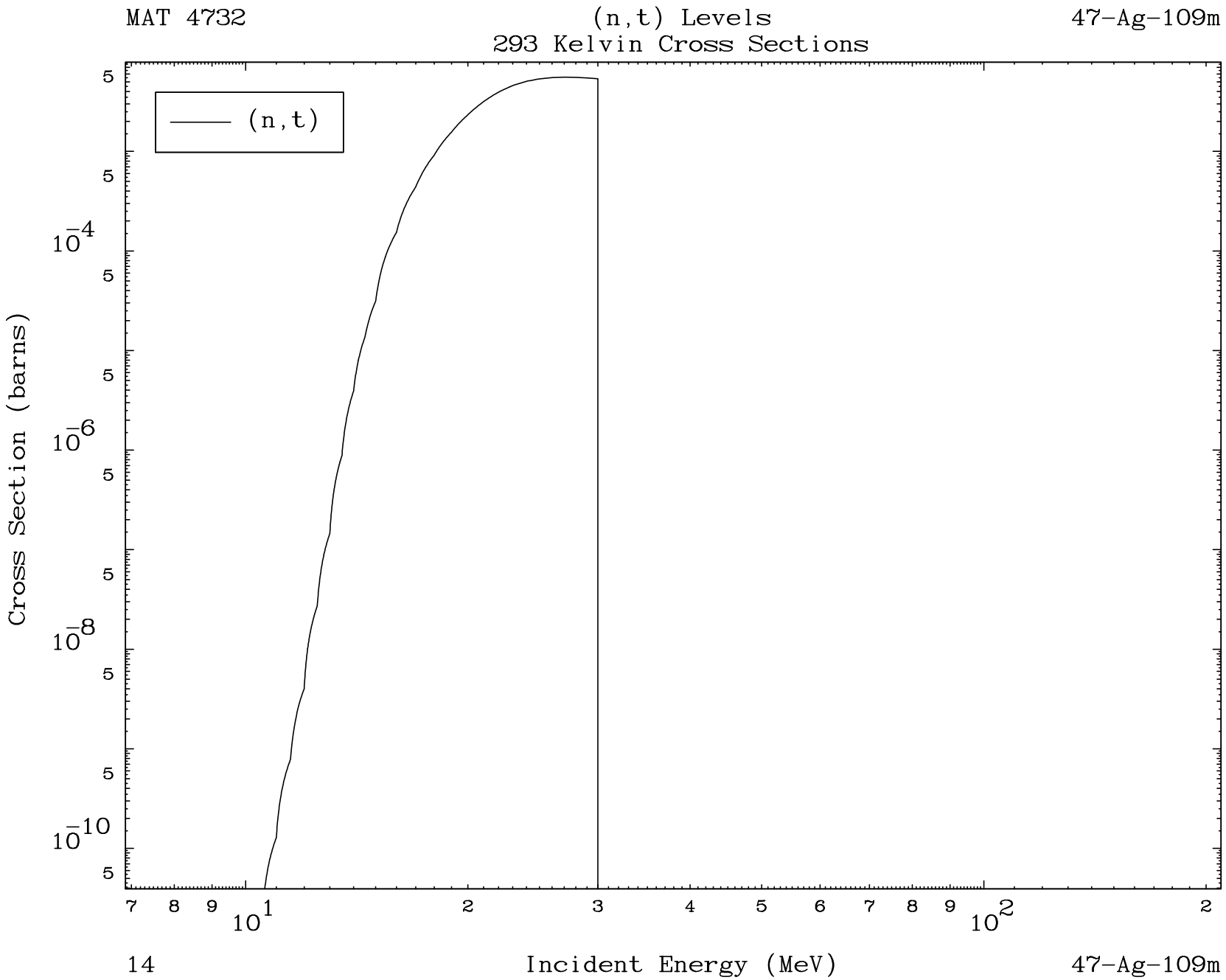

MAT 4732
(n,n') Levels
293 Kelvin Cross Sections
47-Ag-109m
Cross Section (barns)
Incident Energy (MeV)
Inelastic
MT= 59 (n,n') Level
MT= 60 (n,n') Level
MT= 61 (n,n') Level
MT= 62 (n,n') Level
MT= 63 (n,n') Level
MT= 64 (n,n') Level
MT= 65 (n,n') Level
MT= 66 (n,n') Level
9
47-Ag-109m

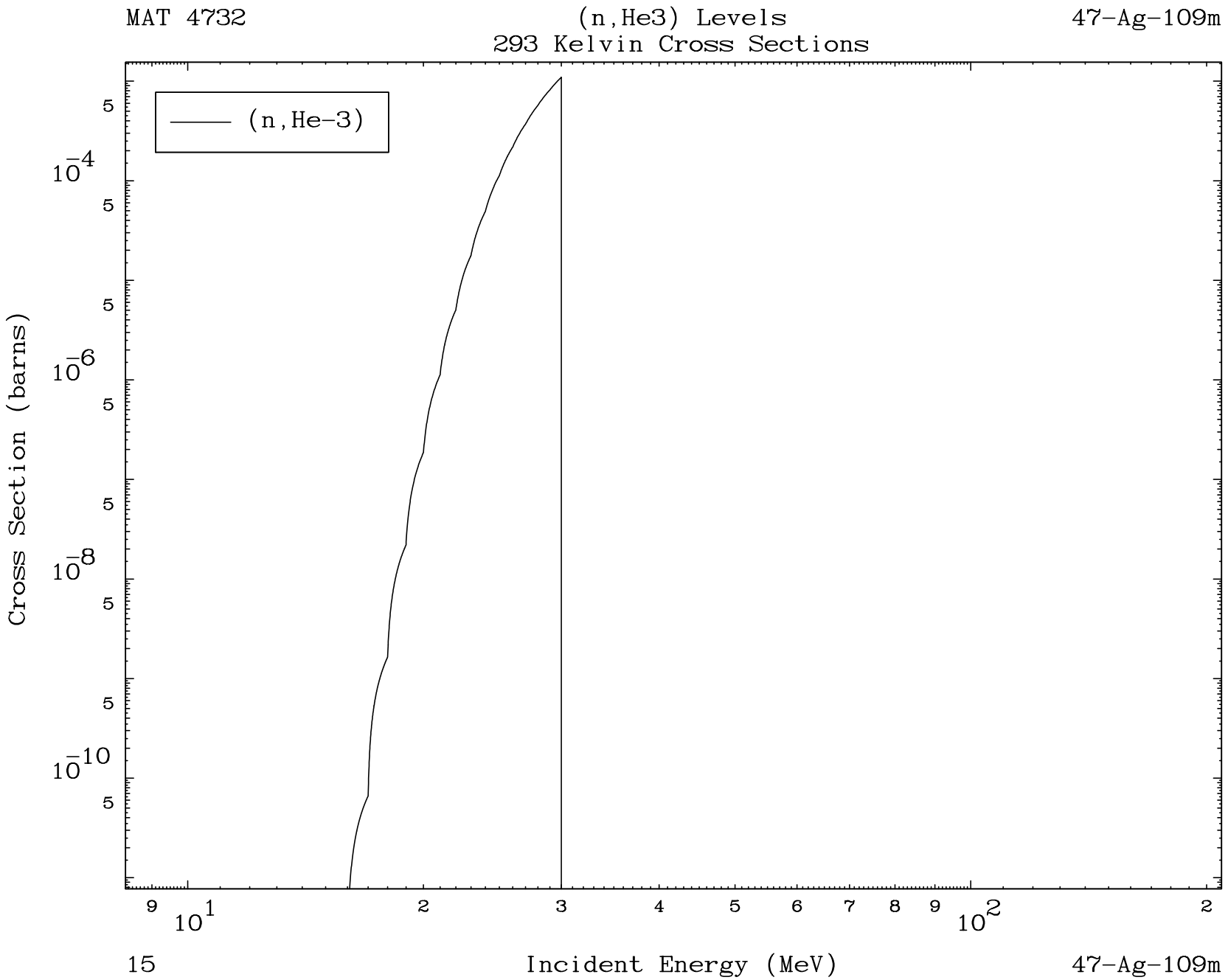

MAT 4732
(n,n') Levels
293 Kelvin Cross Sections
47-Ag-109m
Cross Section (barns)
Incident Energy (MeV)
47-Ag-109m
Inelastic
MT= 67 (n,n') Level
MT= 68 (n,n') Level
MT= 69 (n,n') Level
MT= 70 (n,n') Level
MT= 71 (n,n') Level
MT= 72 (n,n') Level
MT= 73 (n,n') Level
MT= 74 (n,n') Level

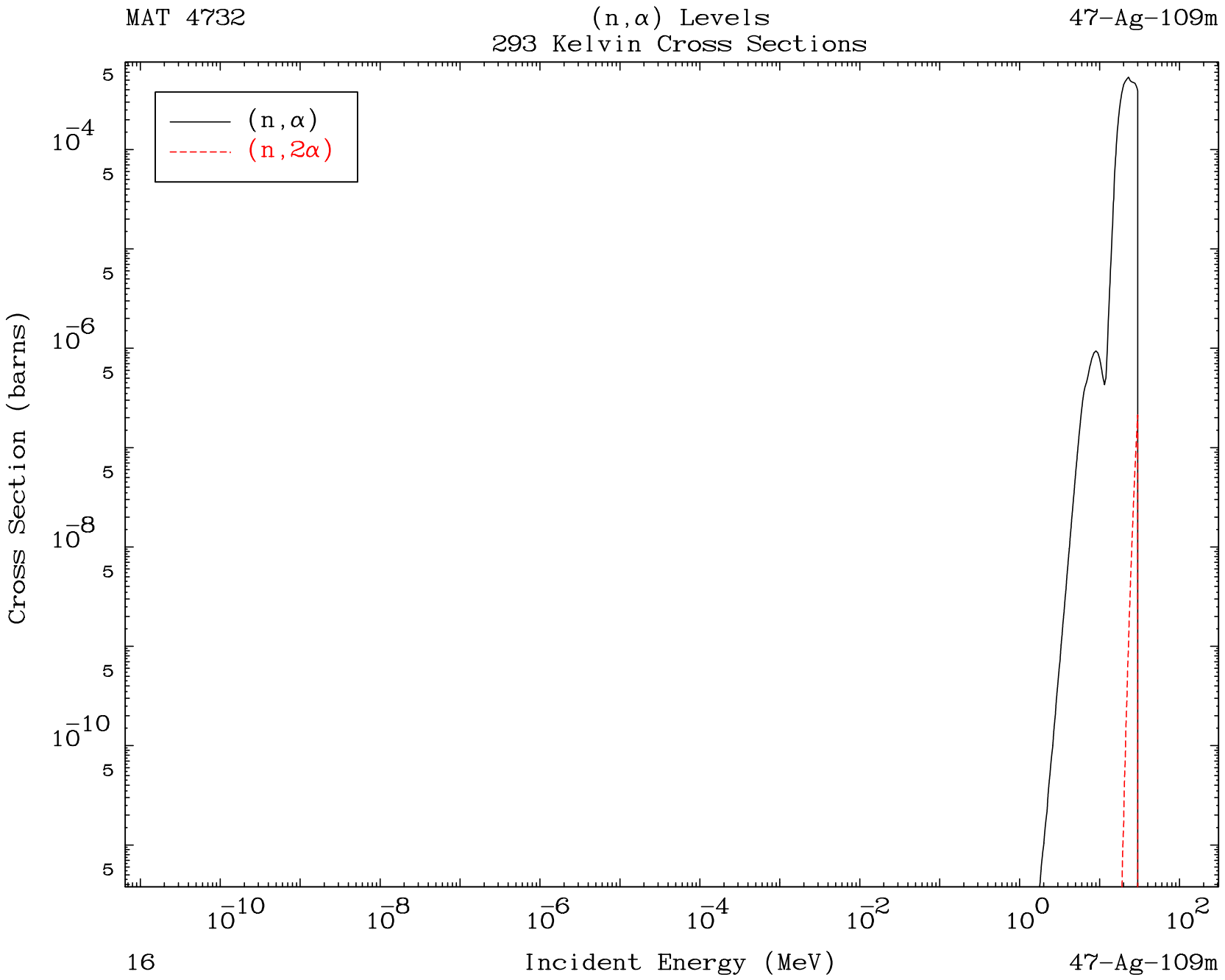

MAT 4732
(n,n') Levels
293 Kelvin Cross Sections
47-Ag-109m
Cross Section (barns)
Incident Energy (MeV)
Inelastic
MT= 75 (n,n') Level
MT= 76 (n,n') Level
MT= 77 (n,n') Level
MT= 78 (n,n') Level
MT= 79 (n,n') Level
MT= 80 (n,n') Level
(n,n') Continuum
11
47-Ag-109m

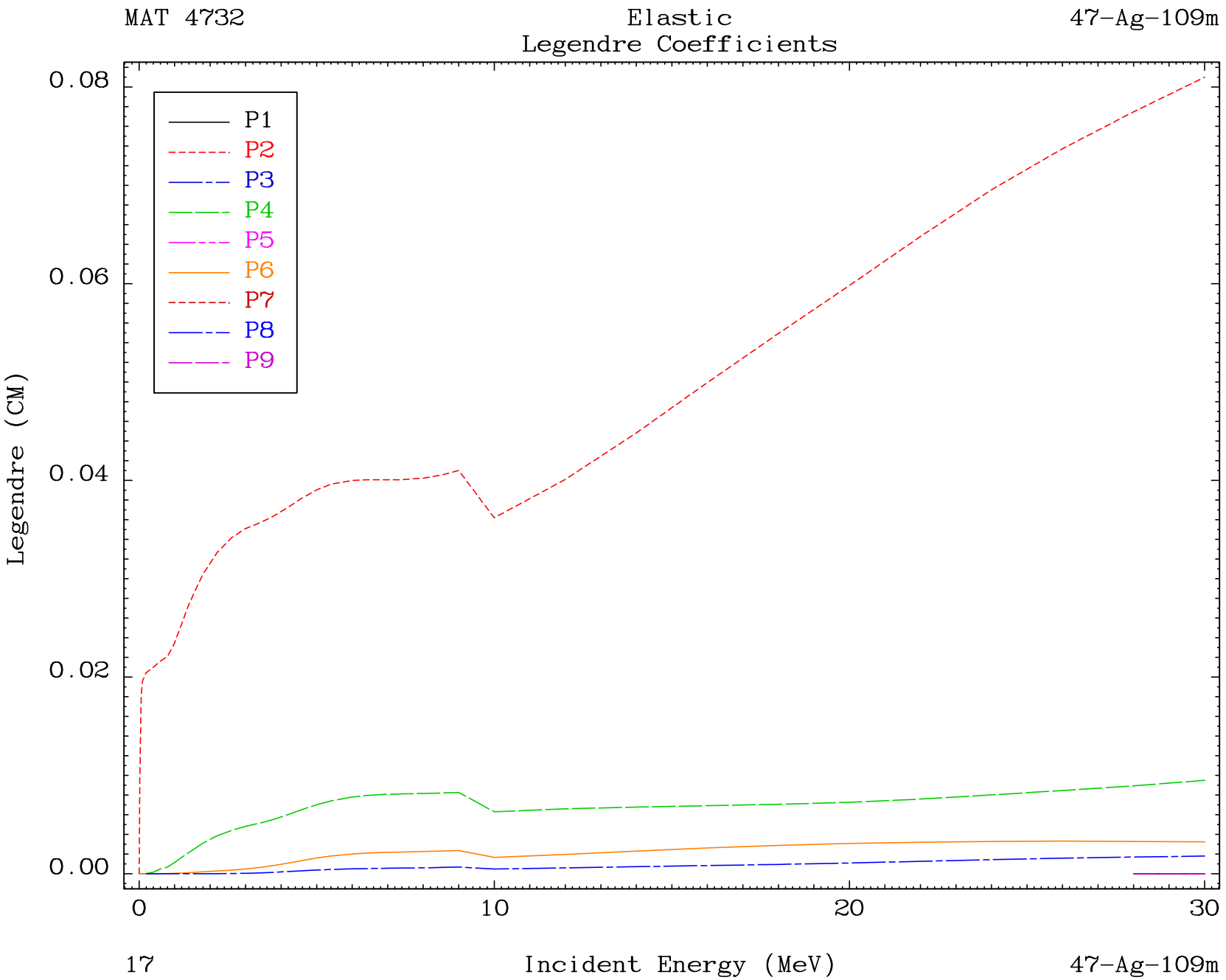

MAT 4732
(n,p) Levels
47-Ag-109m
293 Kelvin Cross Sections
(n,p)
Cross Section (barns)
10-2
10-4
10-6
10-8
5
4 6 8 100 2 4 6 8 101 2 4 6 8 102 2
Incident Energy (MeV)
12
47-Ag-109m

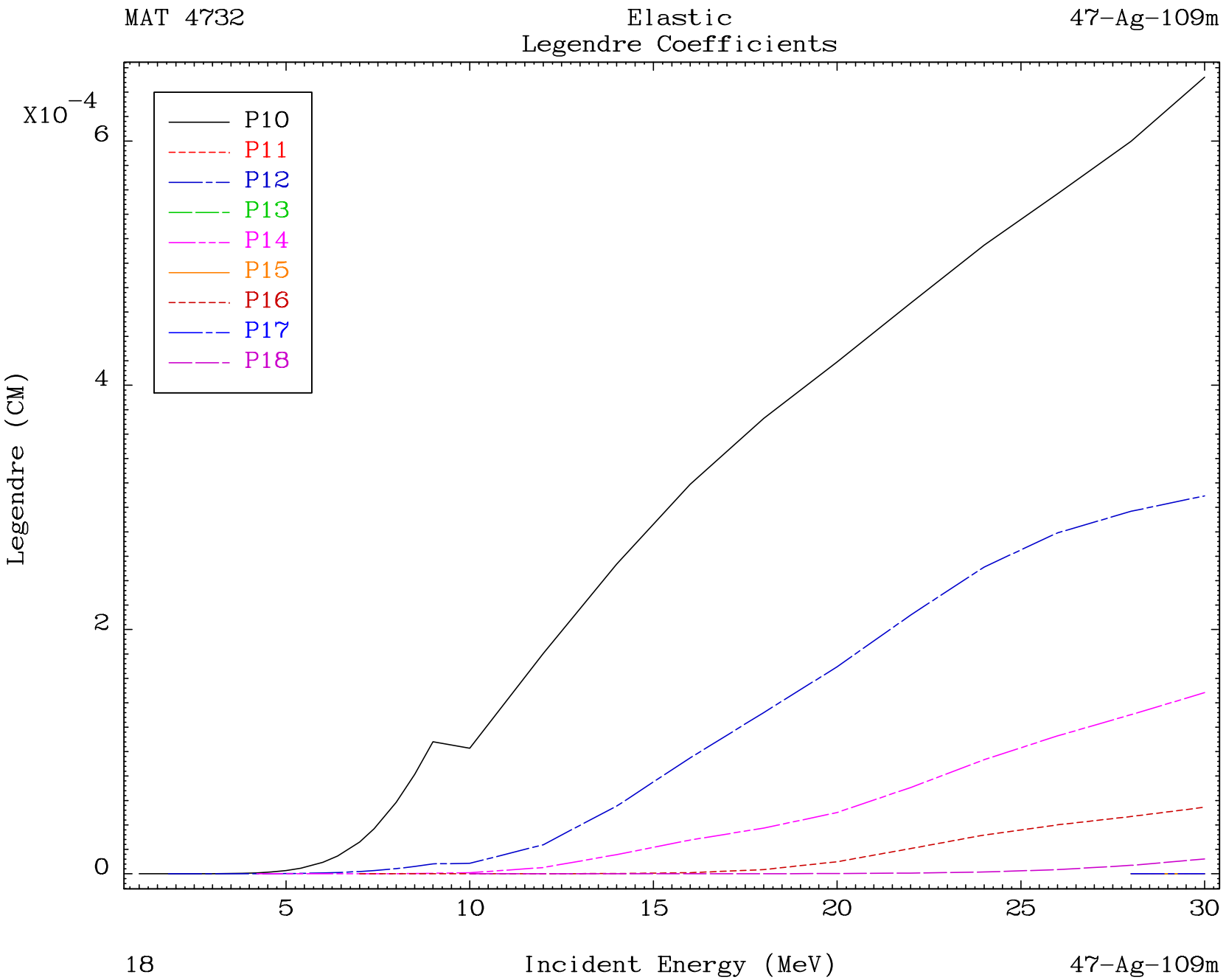

MAT 4732
(n,d) Levels
47-Ag-109m
293 Kelvin Cross Sections
(n,d)
Cross Section (barns)
Incident Energy (MeV)
13
47-Ag-109m

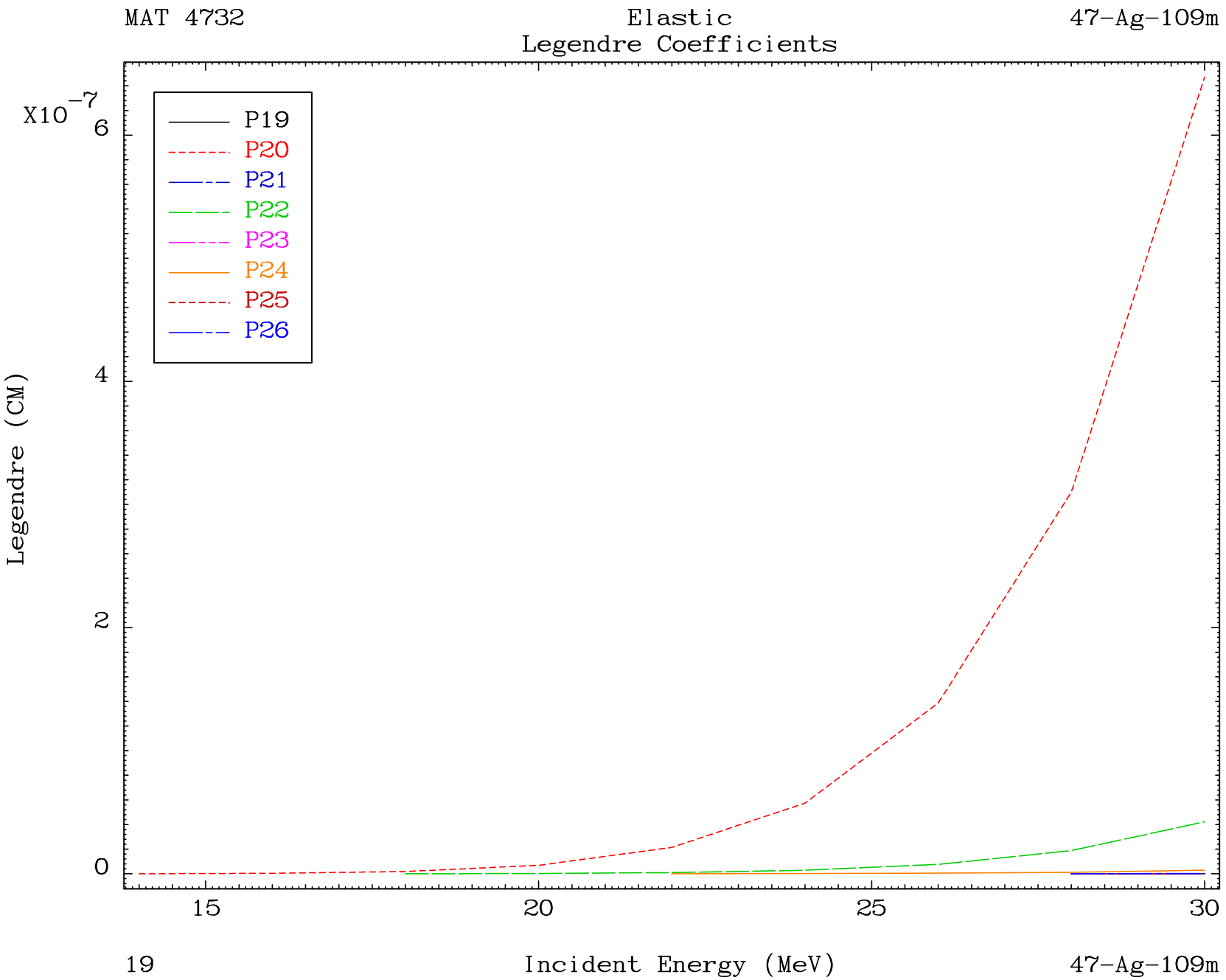

MAT 4732
(n,t) Levels
47-Ag-109m
293 Kelvin Cross Sections
(n,t)
Cross Section (barns)
Incident Energy (MeV)
14
47-Ag-109m

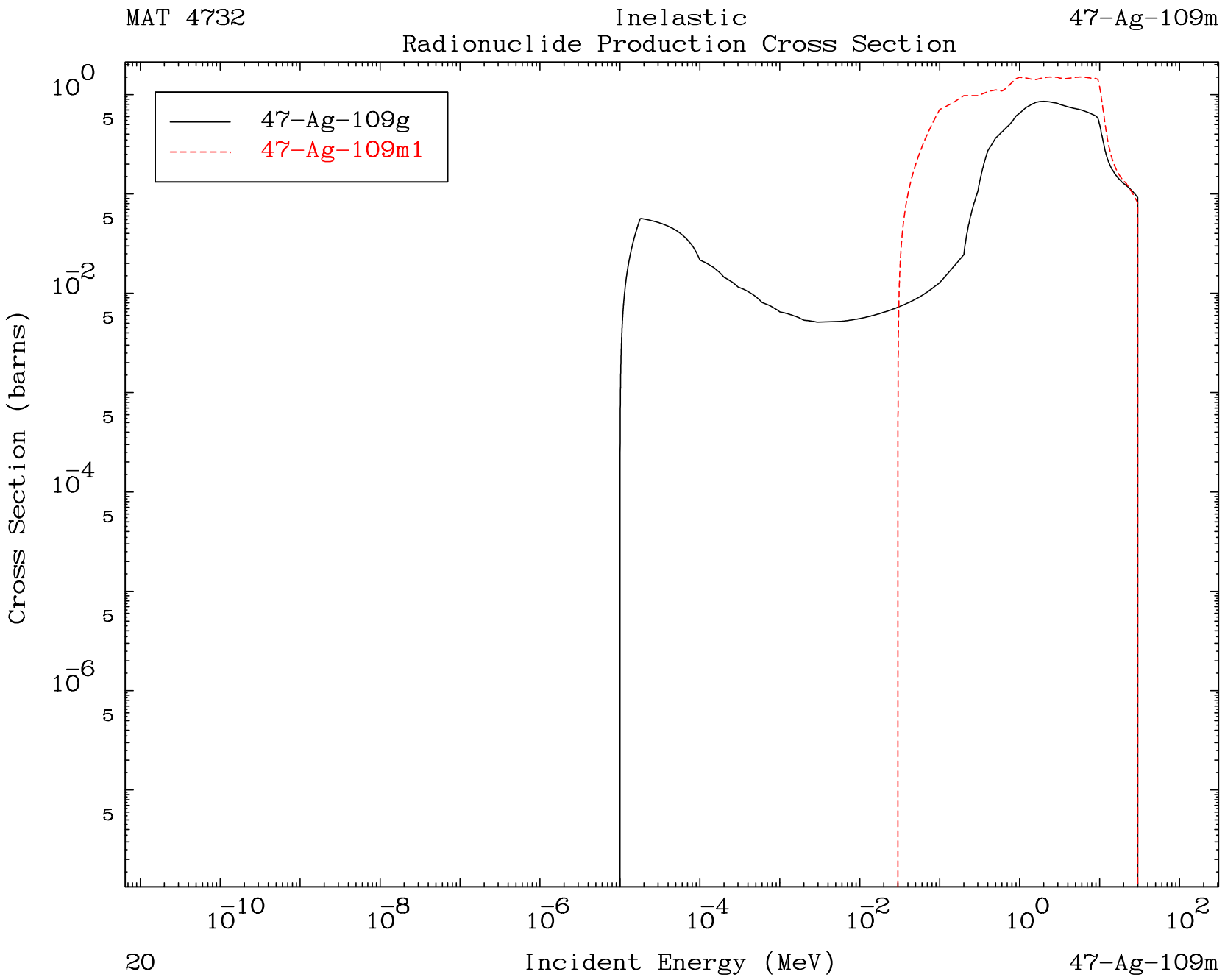

MAT 4732
(n,He3) Levels
47-Ag-109m
293 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
10-4
10-6
10-8
10-10
9 10 1 2 3 4 5 6 7 8 9 10 2 2
Incident Energy (MeV)
15
47-Ag-109m

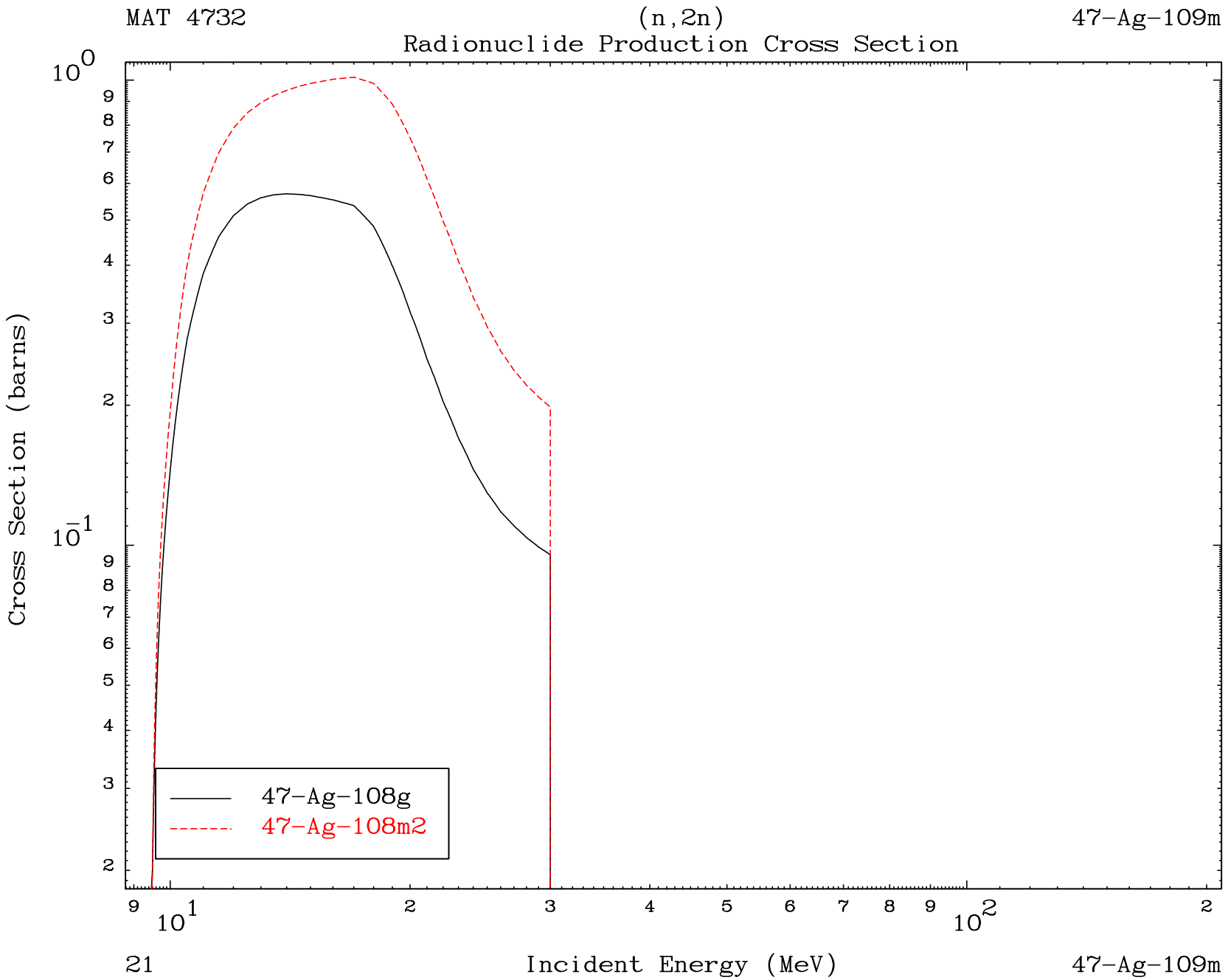

MAT 4732
(n,α) Levels
47-Ag-109m
293 Kelvin Cross Sections
(n,α)
(n,2α)
Cross Section (barns)
Incident Energy (MeV)
16
47-Ag-109m

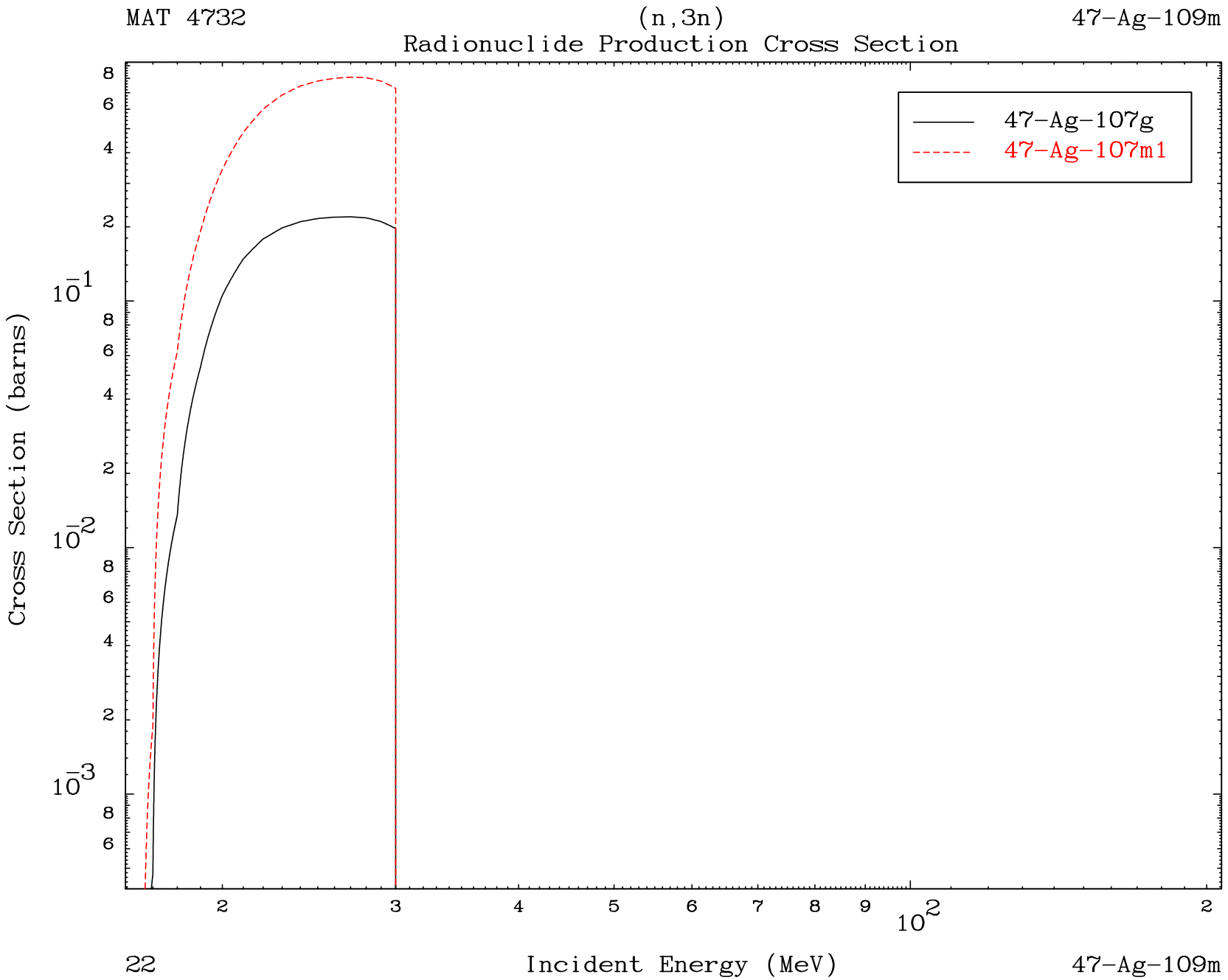

MAT 4732
Elastic
Legendre Coefficients
47-Ag-109m
P1
P2
P3
P4
P5
P6
P7
P8
P9
Legendre (CM)
0.08
0.06
0.04
0.02
0.00
0
10
20
30
17
Incident Energy (MeV)
47-Ag-109m

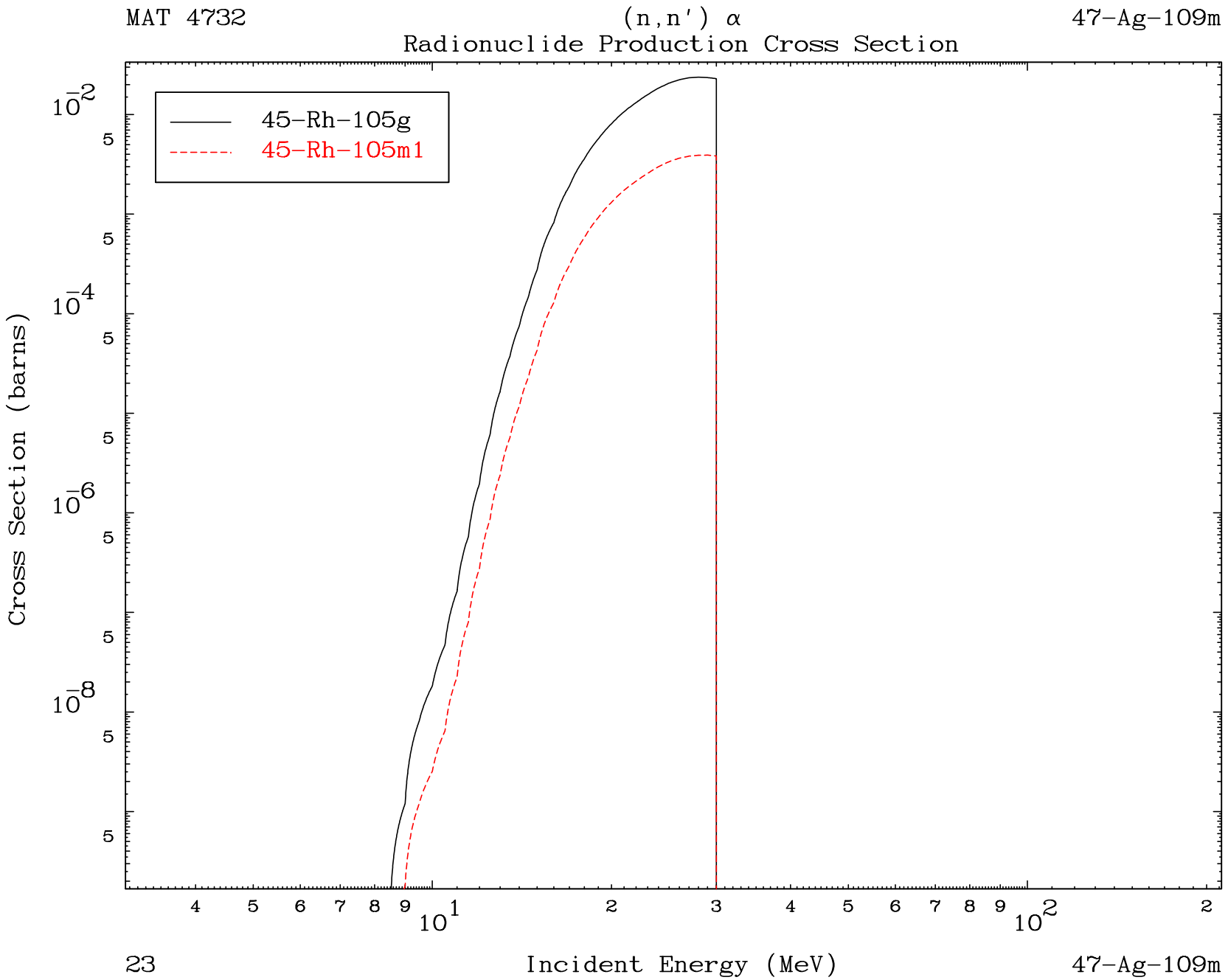

MAT 4732
Elastic
Legendre Coefficients
47-Ag-109m
X10^-4
6
4
2
0
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
5
10
15
20
25
30
18
Incident Energy (MeV)
47-Ag-109m

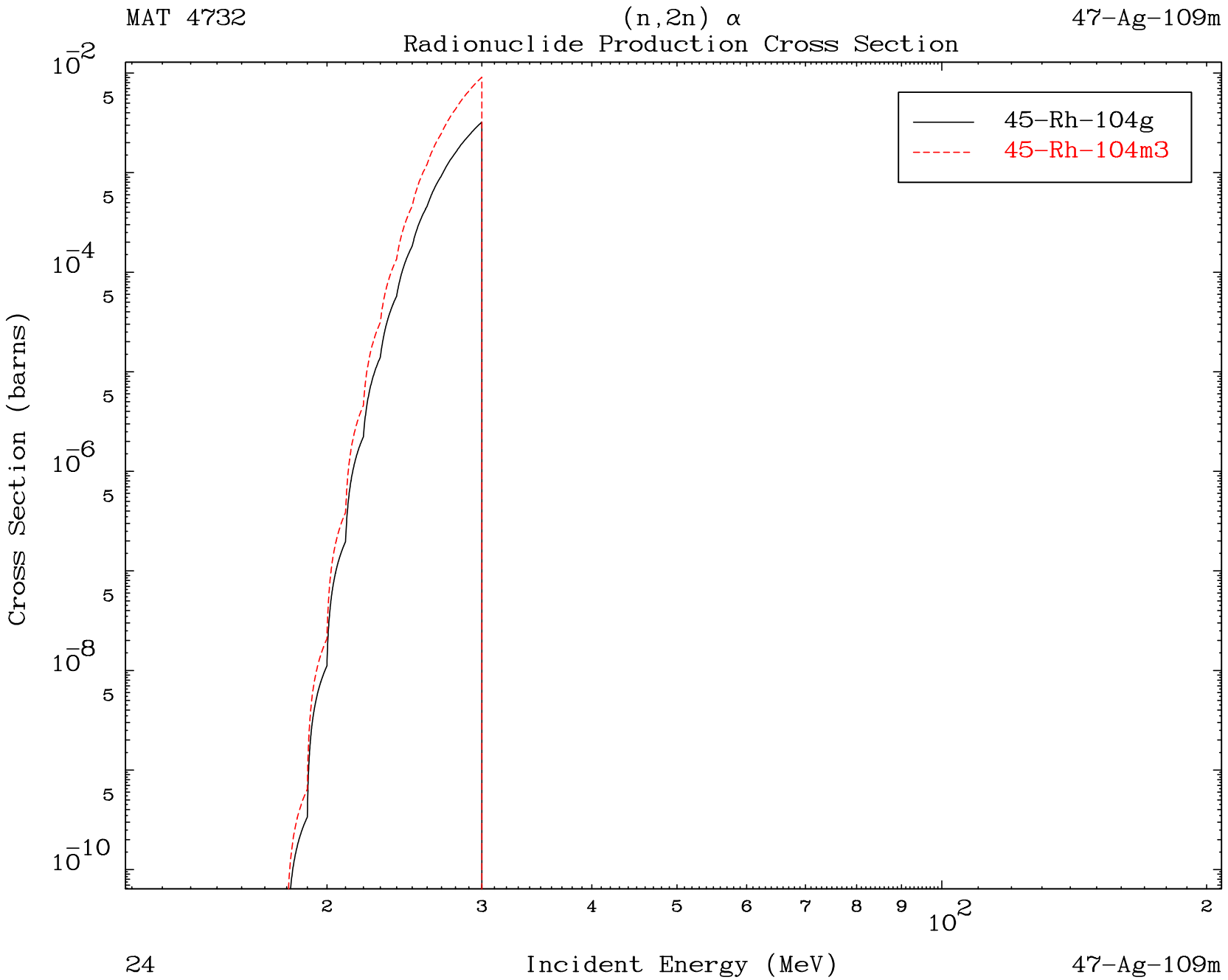

MAT 4732
Elastic
Legendre Coefficients
47-Ag-109m
X10^-7
6
4
2
0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
15
20
25
30
19
Incident Energy (MeV)
47-Ag-109m

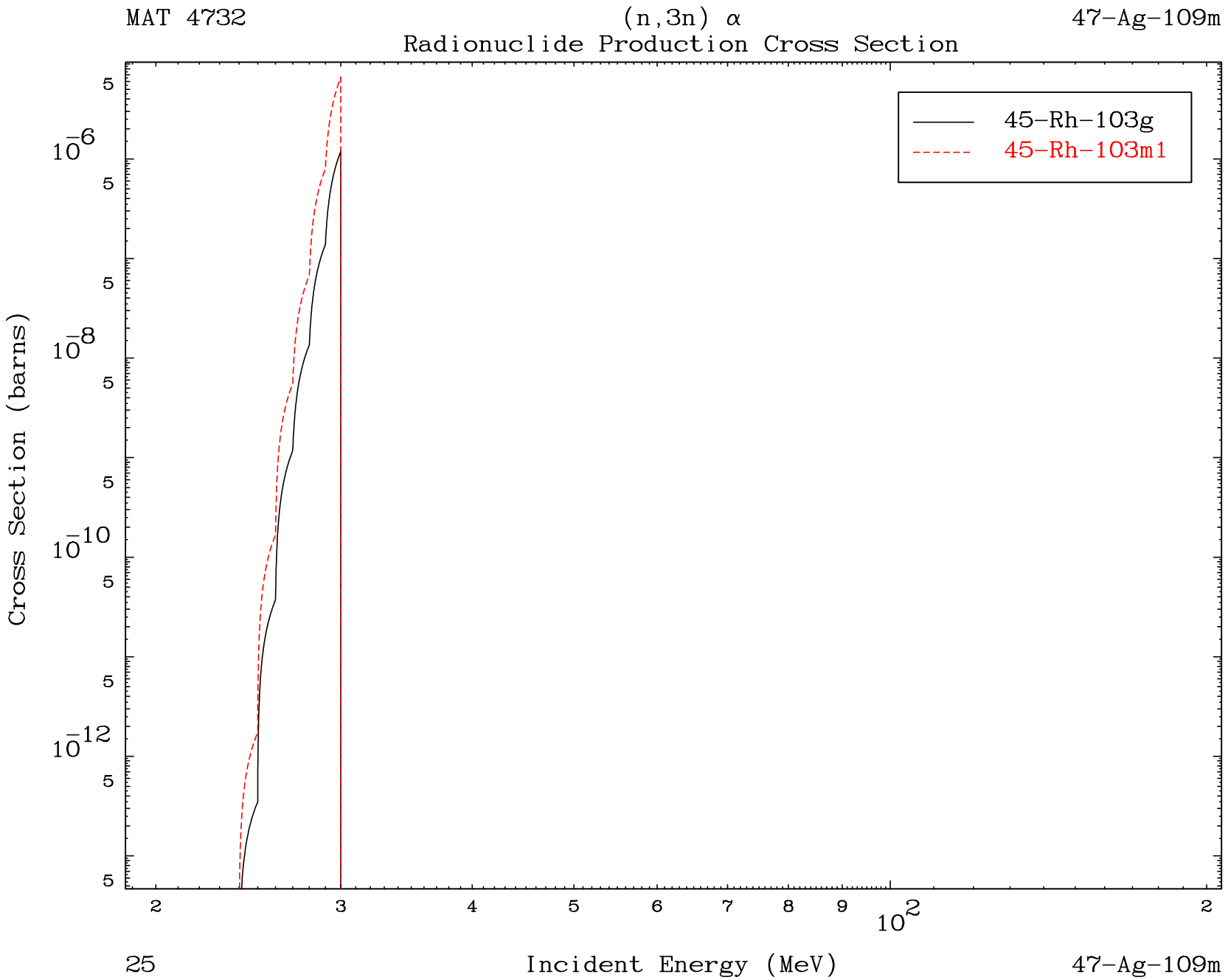

MAT 4732
Inelastic
47-Ag-109m
Radionuclide Production Cross Section
47-Ag-109g
47-Ag-109m1
Cross Section (barns)
Incident Energy (MeV)
20
47-Ag-109m

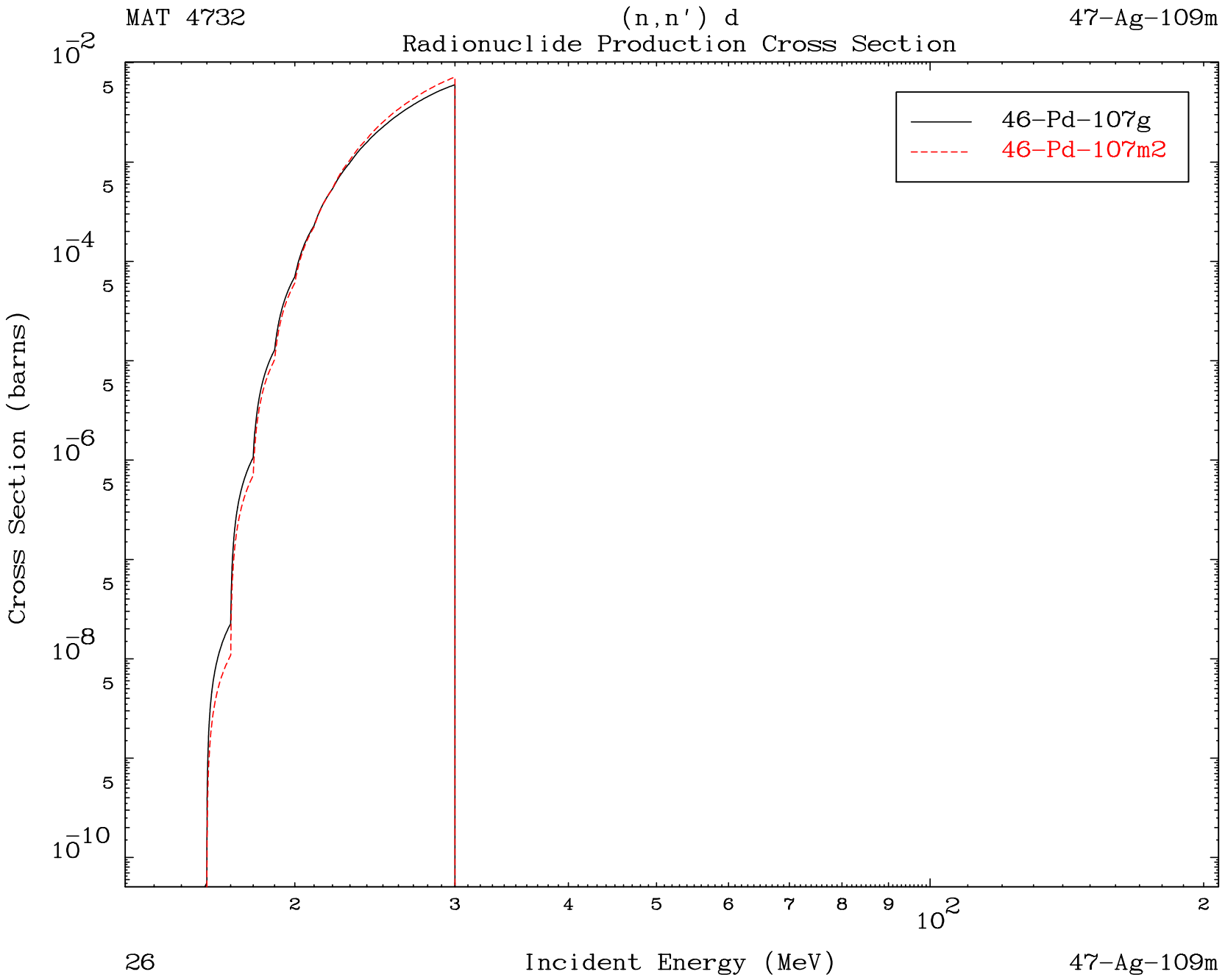

MAT 4732
(n,2n)
47-Ag-109m
Radionuclide Production Cross Section
Cross Section (barns)
Incident Energy (MeV)
47-Ag-108g
47-Ag-108m2
21
47-Ag-109m

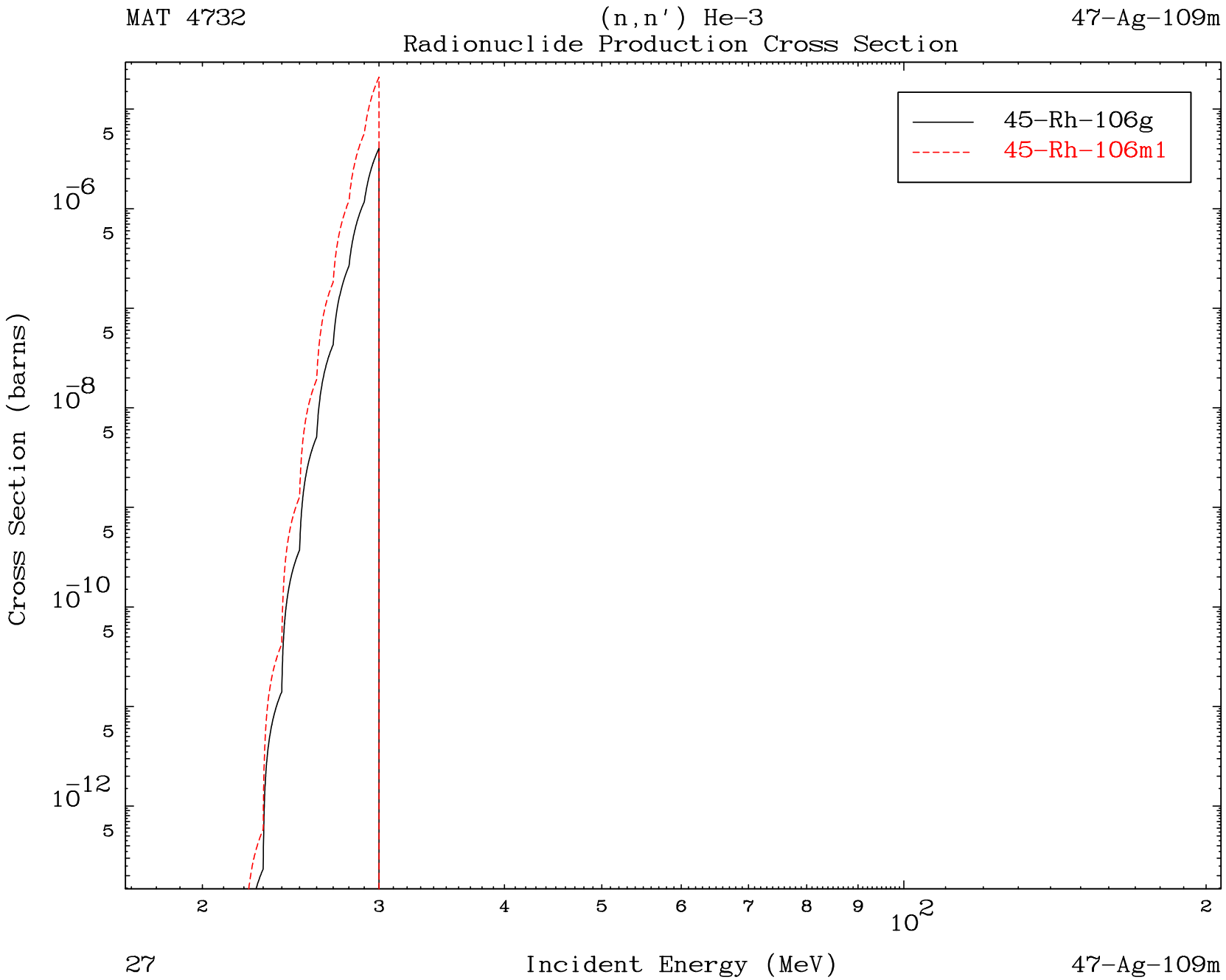

MAT 4732
(n,3n)
47-Ag-109m
Radionuclide Production Cross Section
47-Ag-107g
47-Ag-107m1
Cross Section (barns)
Incident Energy (MeV)
22
47-Ag-109m

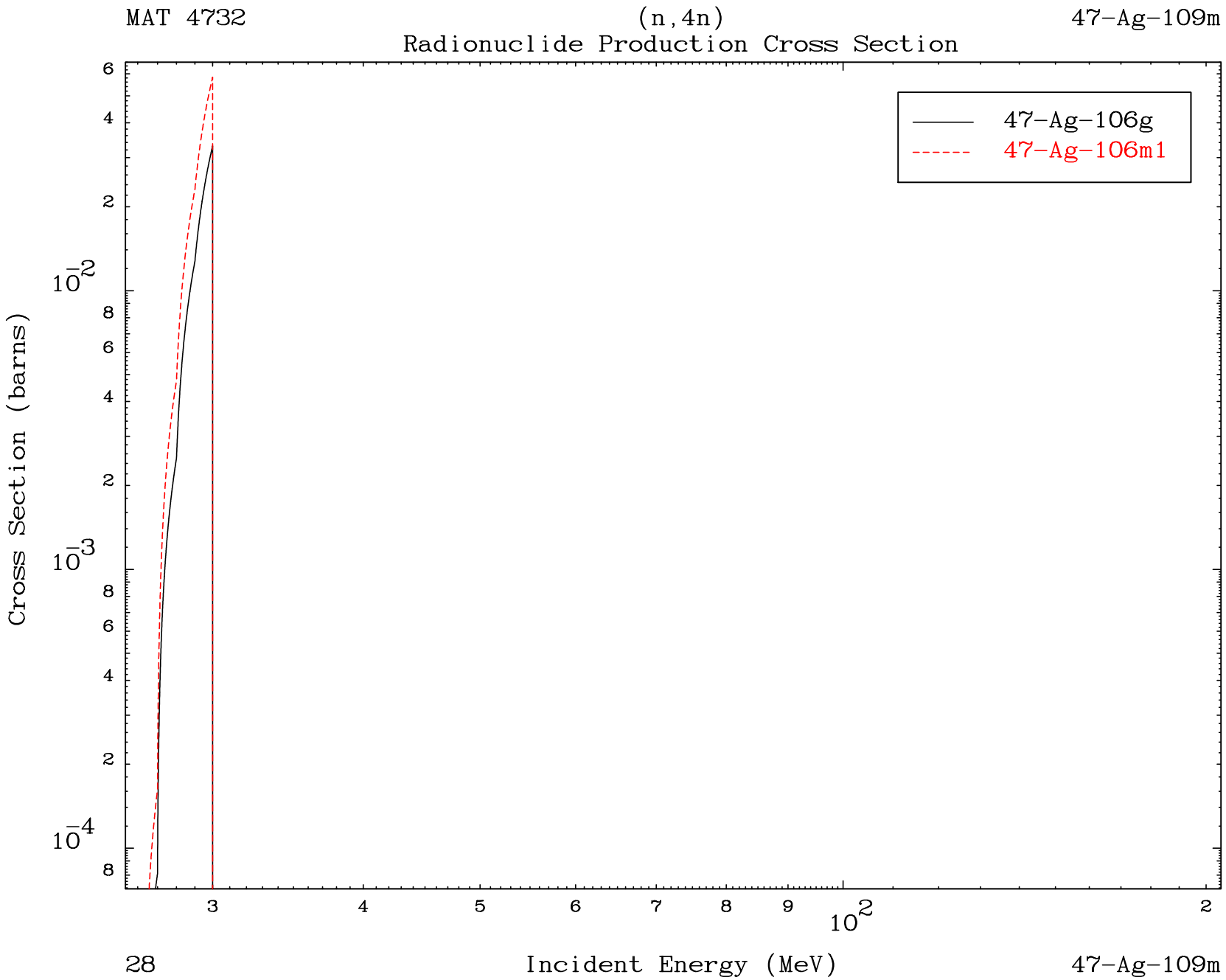

MAT 4732
(n,n') α
47-Ag-109m
Radionuclide Production Cross Section
45-Rh-105g
45-Rh-105m1
Cross Section (barns)
10-2
10-4
10-6
10-8
5
4 5 6 7 8 9 10 1 2 3 4 5 6 7 8 9 10 2 2
23
Incident Energy (MeV)
47-Ag-109m

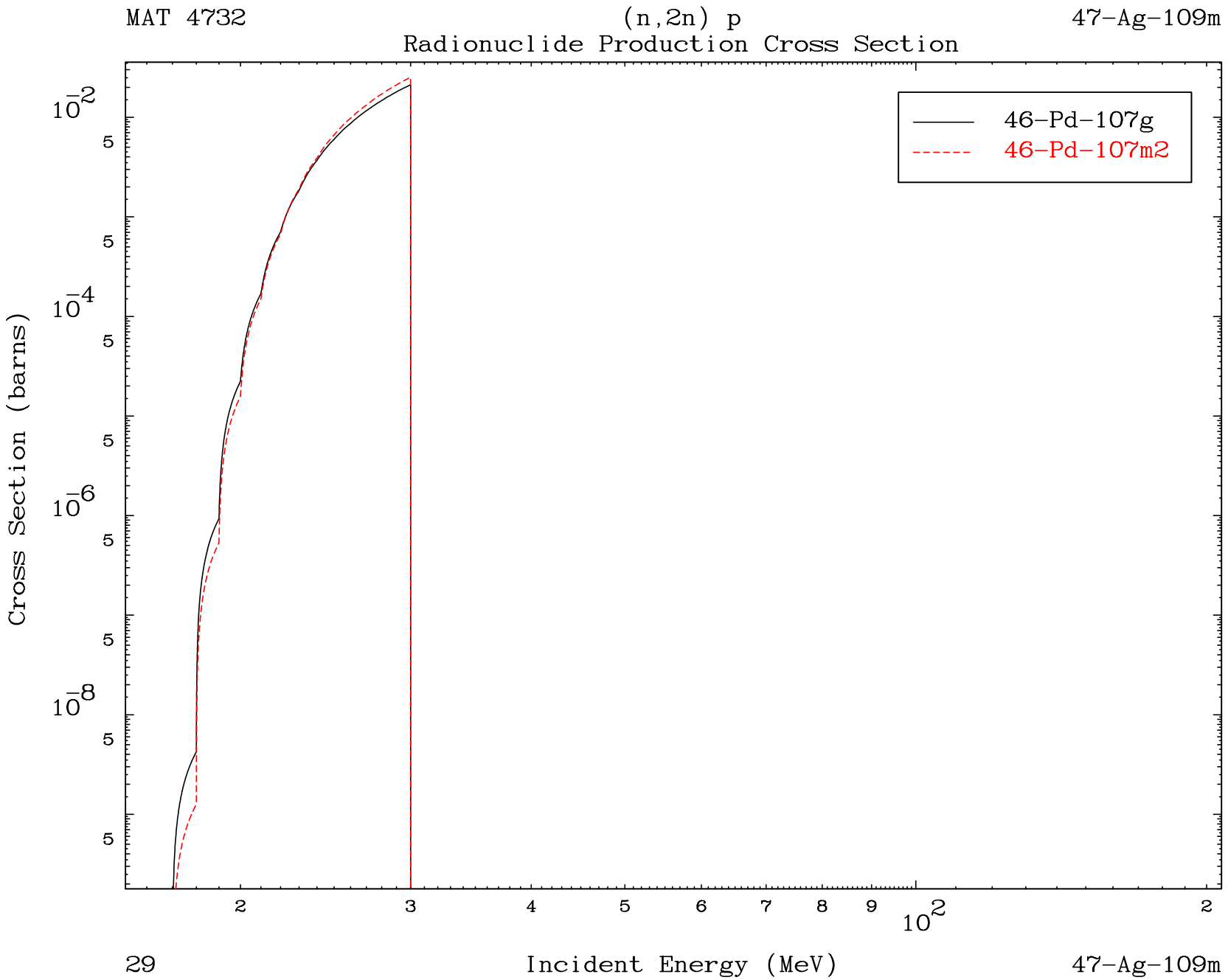

MAT 4732
(n,2n) α
47-Ag-109m
Radionuclide Production Cross Section
45-Rh-104g
45-Rh-104m3
Cross Section (barns)
Incident Energy (MeV)
24
47-Ag-109m

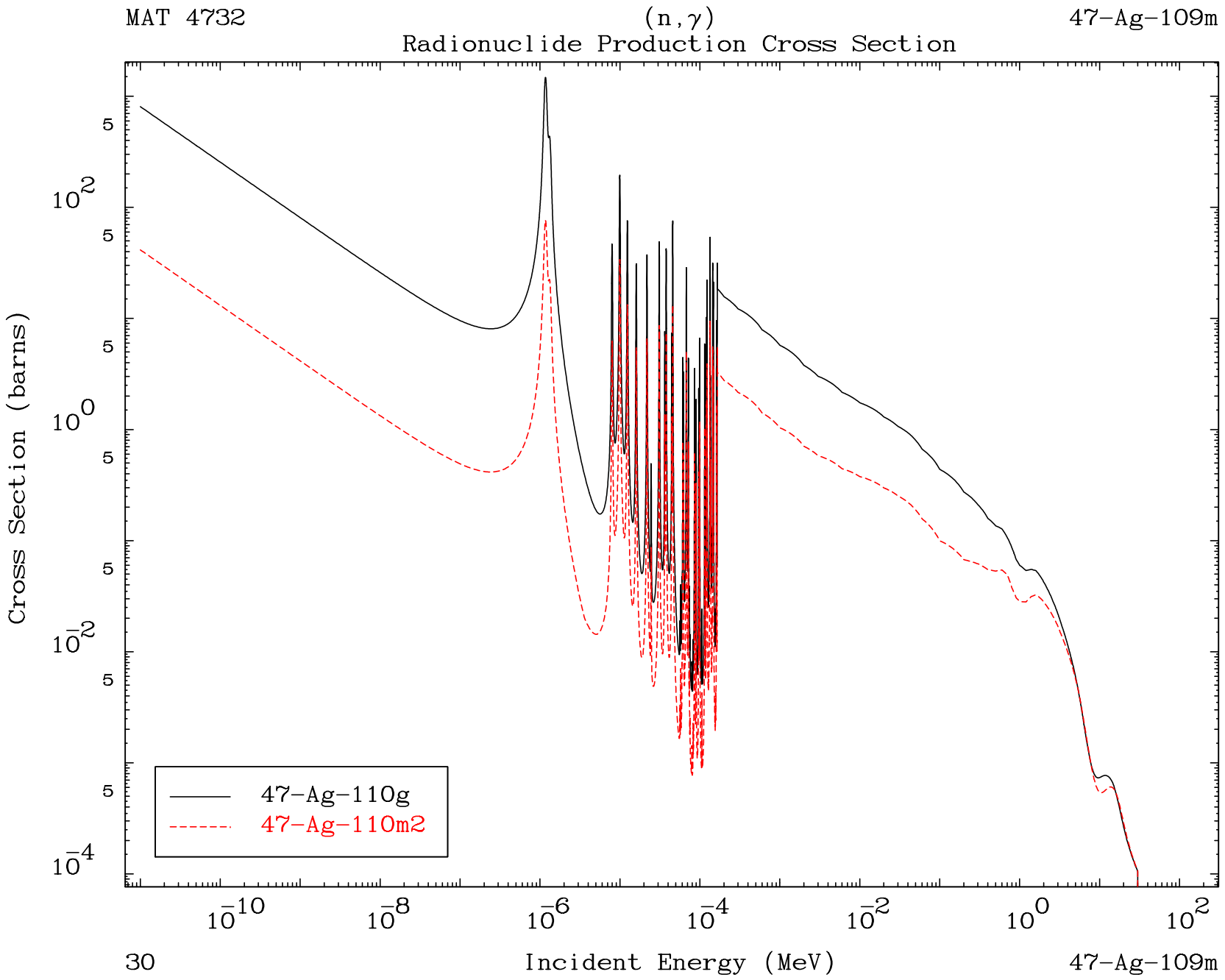

MAT 4732
(n,3n) α
47-Ag-109m
Radionuclide Production Cross Section
45-Rh-103g
45-Rh-103m1
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
2
3
4
5
6
7
8
9
10^2
2
25
Incident Energy (MeV)
47-Ag-109m

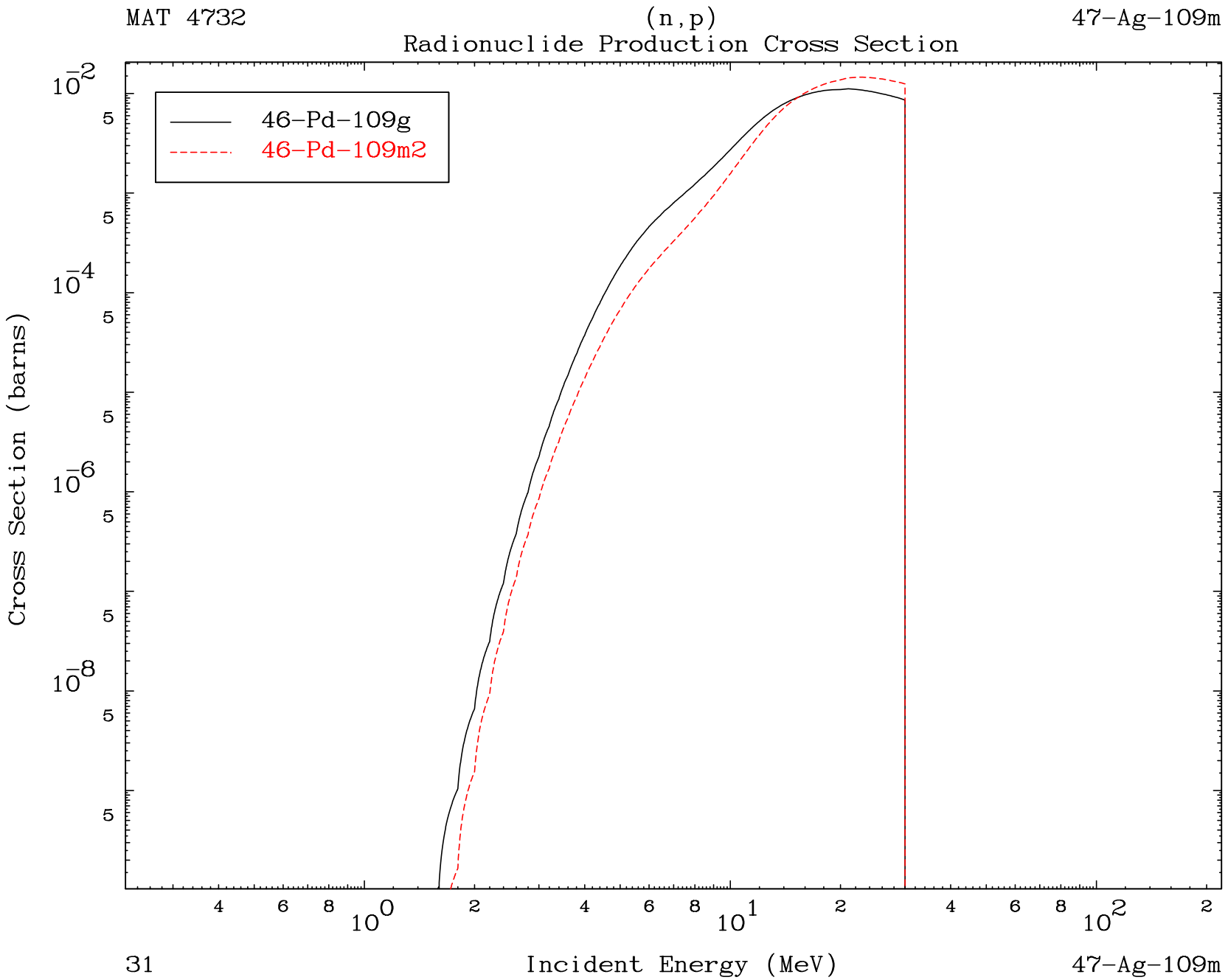

MAT 4732
(n,n') d
47-Ag-109m
Radionuclide Production Cross Section
46-Pd-107g
46-Pd-107m2
Cross Section (barns)
Incident Energy (MeV)
26
47-Ag-109m

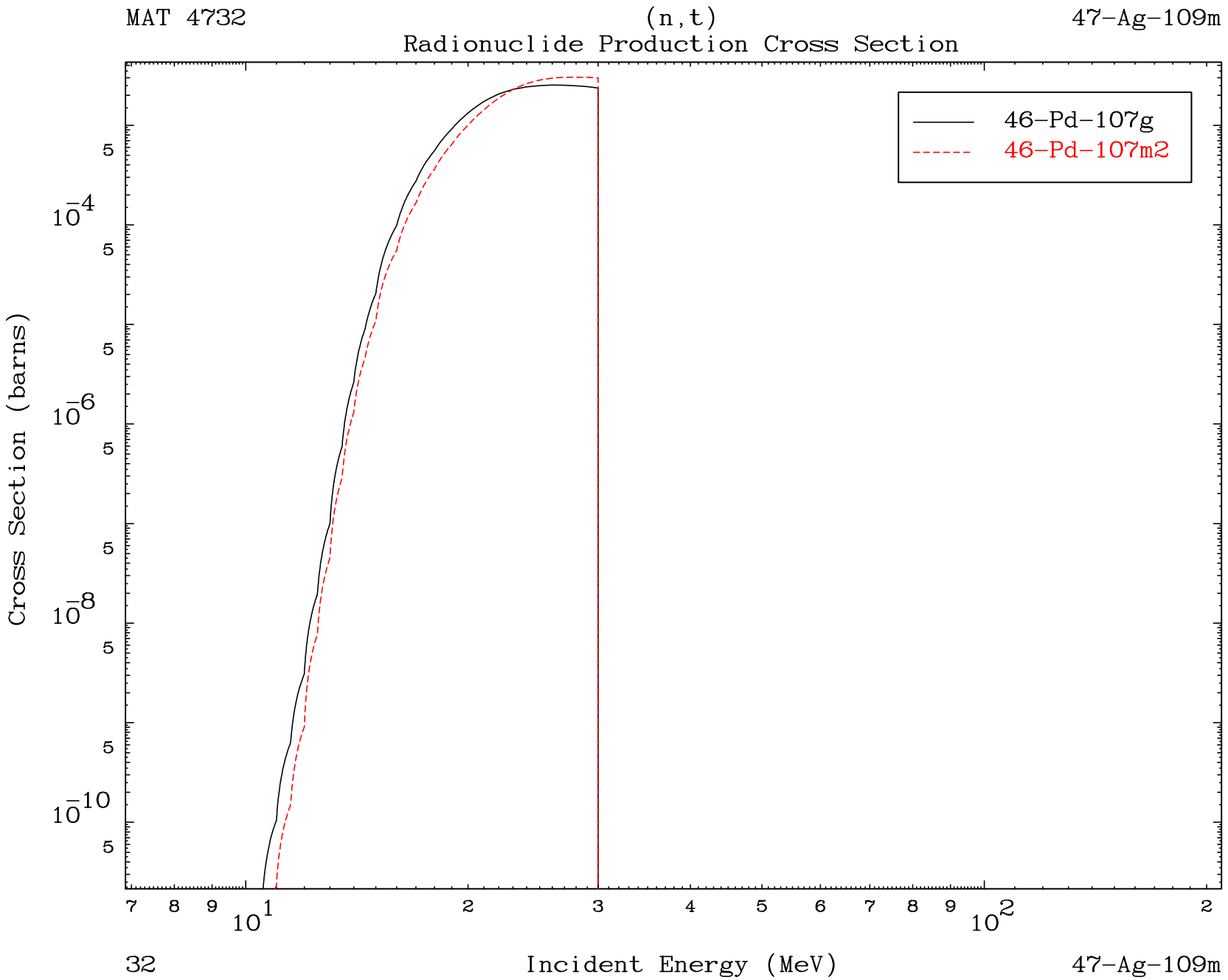

MAT 4732
(n,n') He-3
47-Ag-109m
Radionuclide Production Cross Section
45-Rh-106g
45-Rh-106m1
Cross Section (barns)
10-6
10-8
10-10
10-12
2
3
4
5
6
7
8
9
10 2
2
27
Incident Energy (MeV)
47-Ag-109m

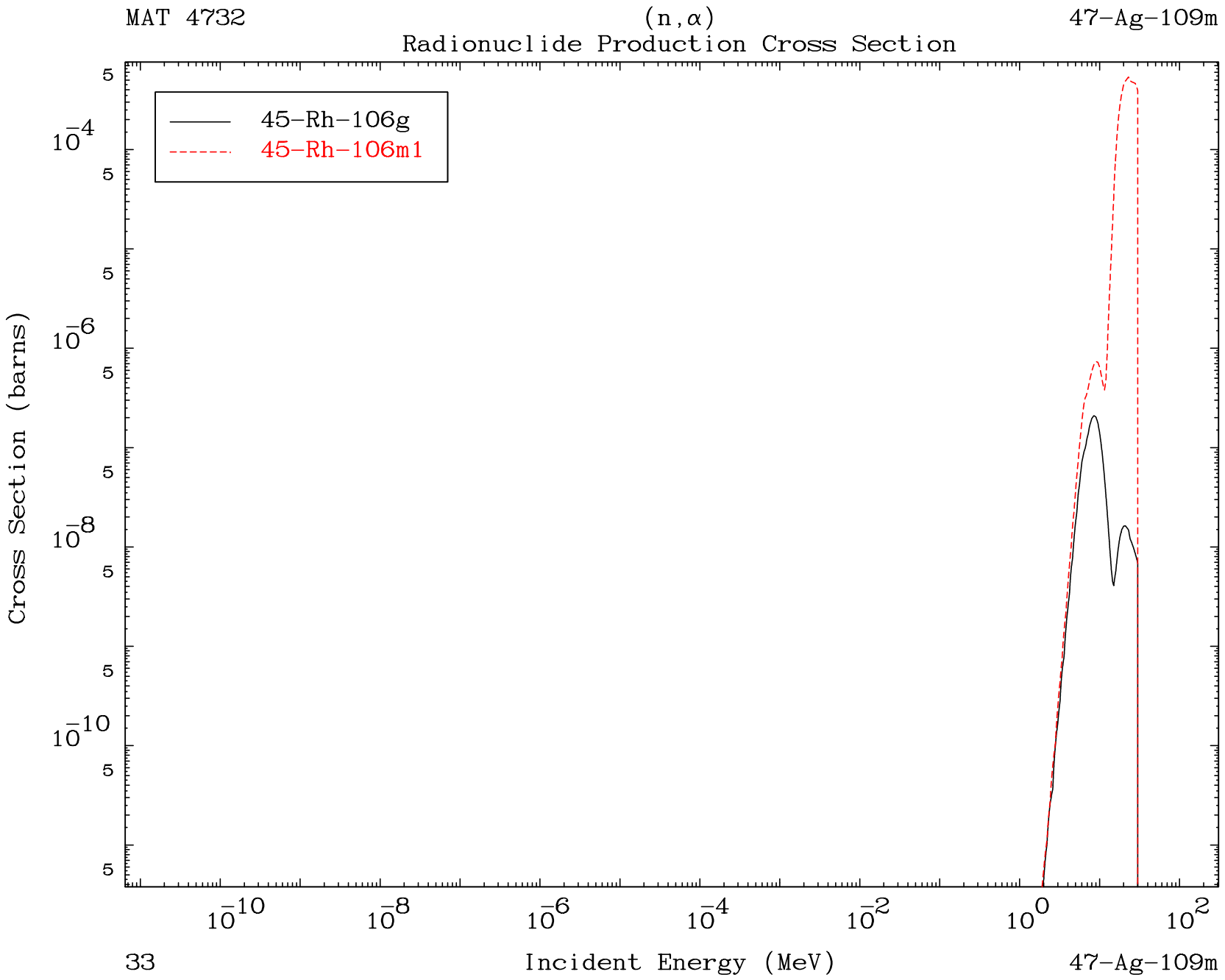

MAT 4732
(n,4n)
47-Ag-109m
Radionuclide Production Cross Section
47-Ag-106g
47-Ag-106m1
Cross Section (barns)
Incident Energy (MeV)
28
47-Ag-109m

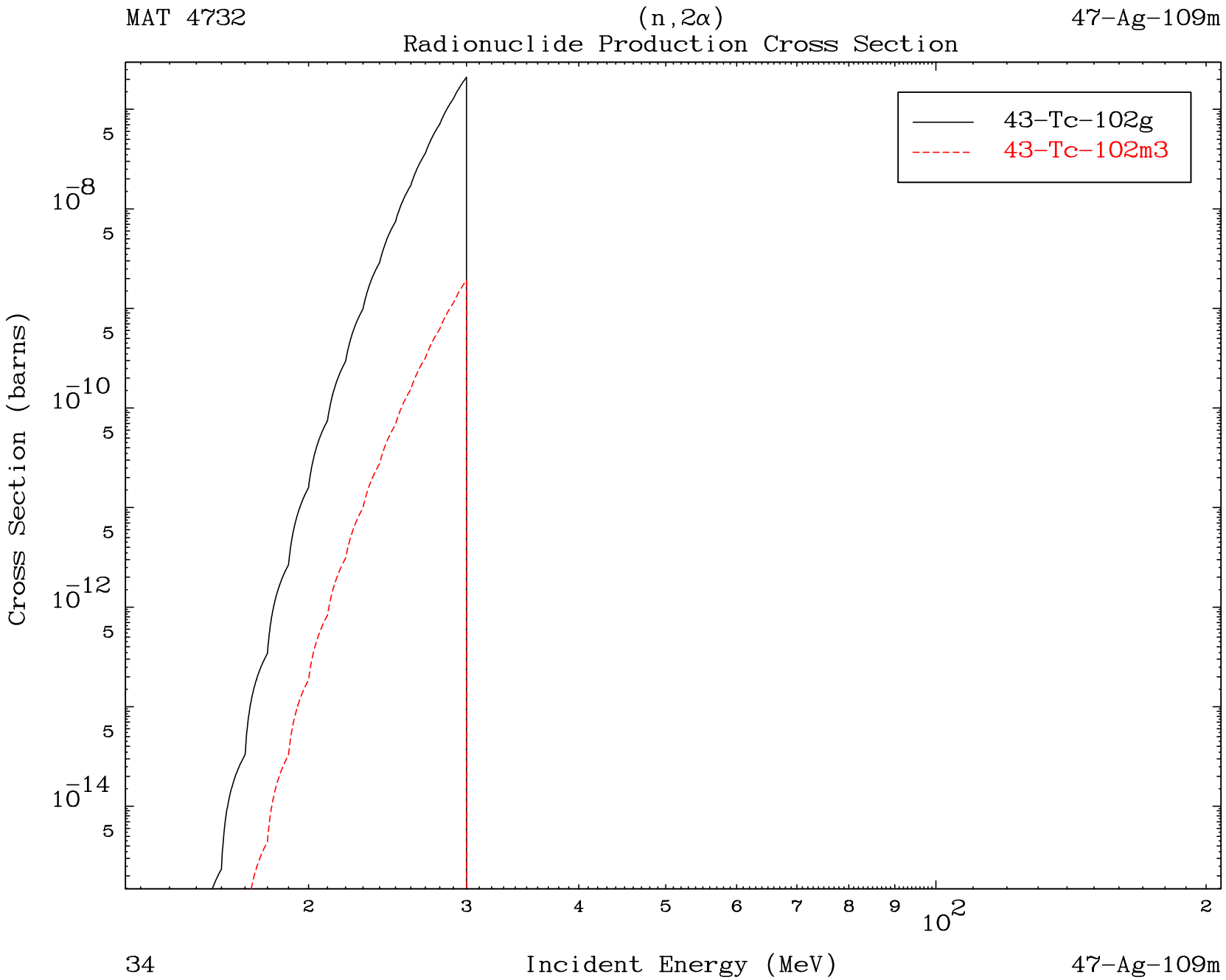

MAT 4732
(n,2n) p
47-Ag-109m
Radionuclide Production Cross Section
46-Pd-107g
46-Pd-107m2
Cross Section (barns)
10-2
10-4
10-6
10-8
5
2
3
4
5
6
7
8
9
102
2
29
Incident Energy (MeV)
47-Ag-109m

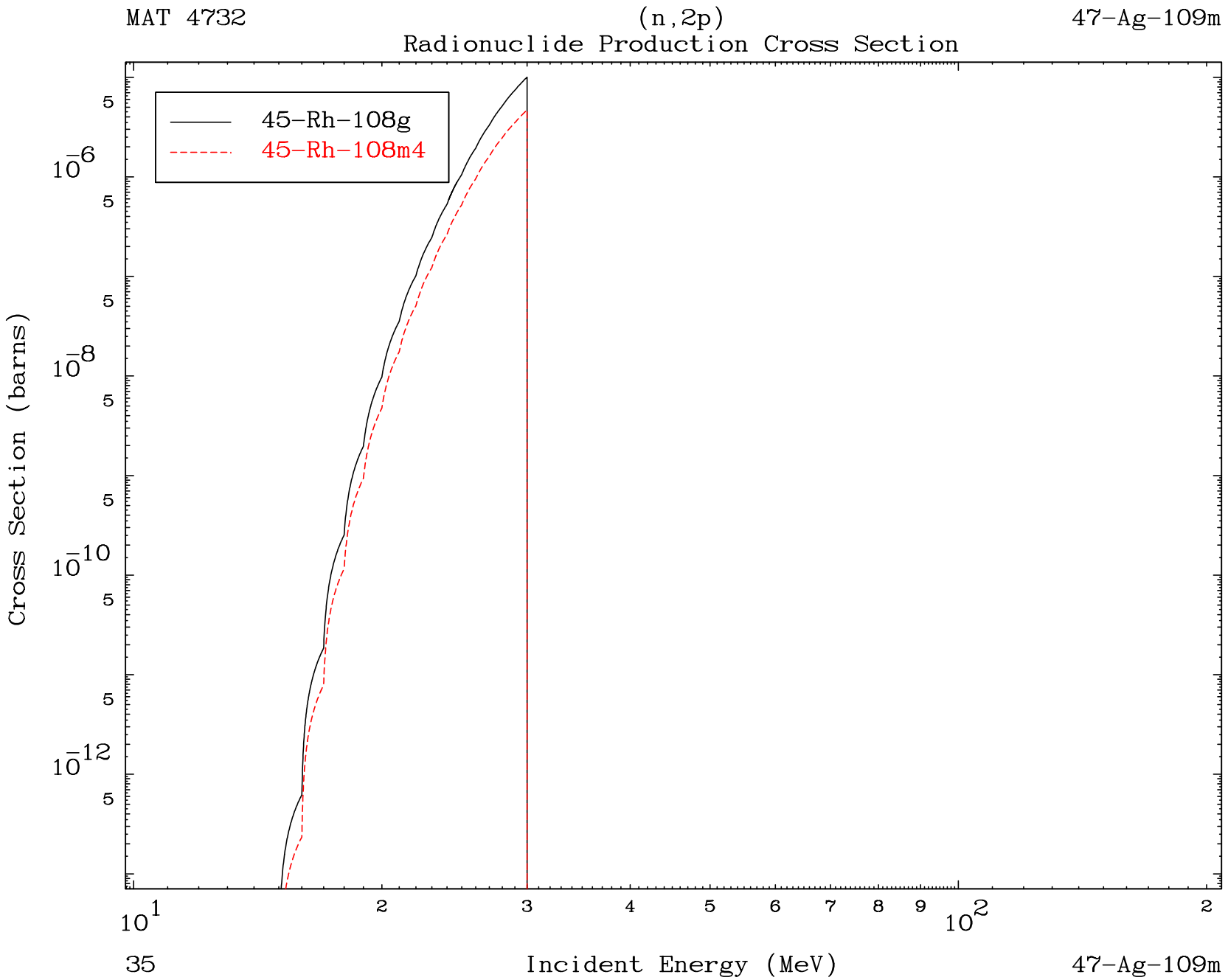

MAT 4732
(n,γ)
47-Ag-109m
Radionuclide Production Cross Section
Cross Section (barns)
10^2
10^0
10^-2
10^-4
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
47-Ag-110g
47-Ag-110m2
30
Incident Energy (MeV)
47-Ag-109m

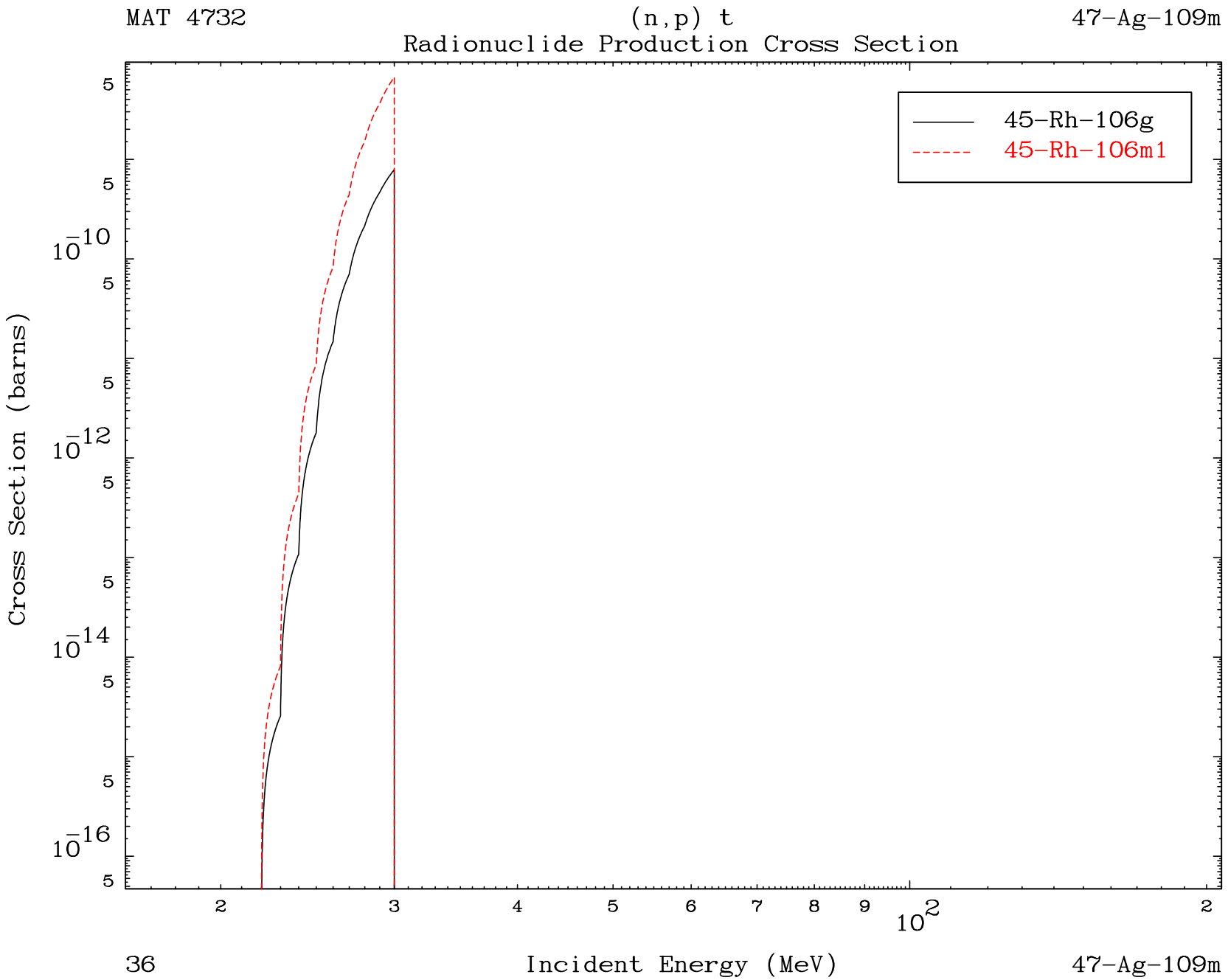

MAT 4732
(n,p)
47-Ag-109m
Radionuclide Production Cross Section
46-Pd-109g
46-Pd-109m2
Cross Section (barns)
Incident Energy (MeV)
31
47-Ag-109m


MAT 4732
(n,t)
47-Ag-109m
Radionuclide Production Cross Section
46-Pd-107g
46-Pd-107m2
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
32
Incident Energy (MeV)
47-Ag-109m


MAT 4732
(n,α)
47-Ag-109m
Radionuclide Production Cross Section
45-Rh-106g
45-Rh-106m1
Cross Section (barns)
Incident Energy (MeV)
33
47-Ag-109m


MAT 4732
(n,2α)
47-Ag-109m
Radionuclide Production Cross Section
43-Tc-102g
43-Tc-102m3
Cross Section (barns)
10-8
10-10
10-12
10-14
5
2
3
4
5
6
7
8
9
10 2
2
34
Incident Energy (MeV)
47-Ag-109m


MAT 4732
(n,2p)
47-Ag-109m
Radionuclide Production Cross Section
45-Rh-108g
45-Rh-108m4
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
10^1
10^2
Incident Energy (MeV)
35
47-Ag-109m


MAT 4732
(n,p) t
47-Ag-109m
Radionuclide Production Cross Section
45-Rh-106g
45-Rh-106m1
Cross Section (barns)
Incident Energy (MeV)
36
47-Ag-109m