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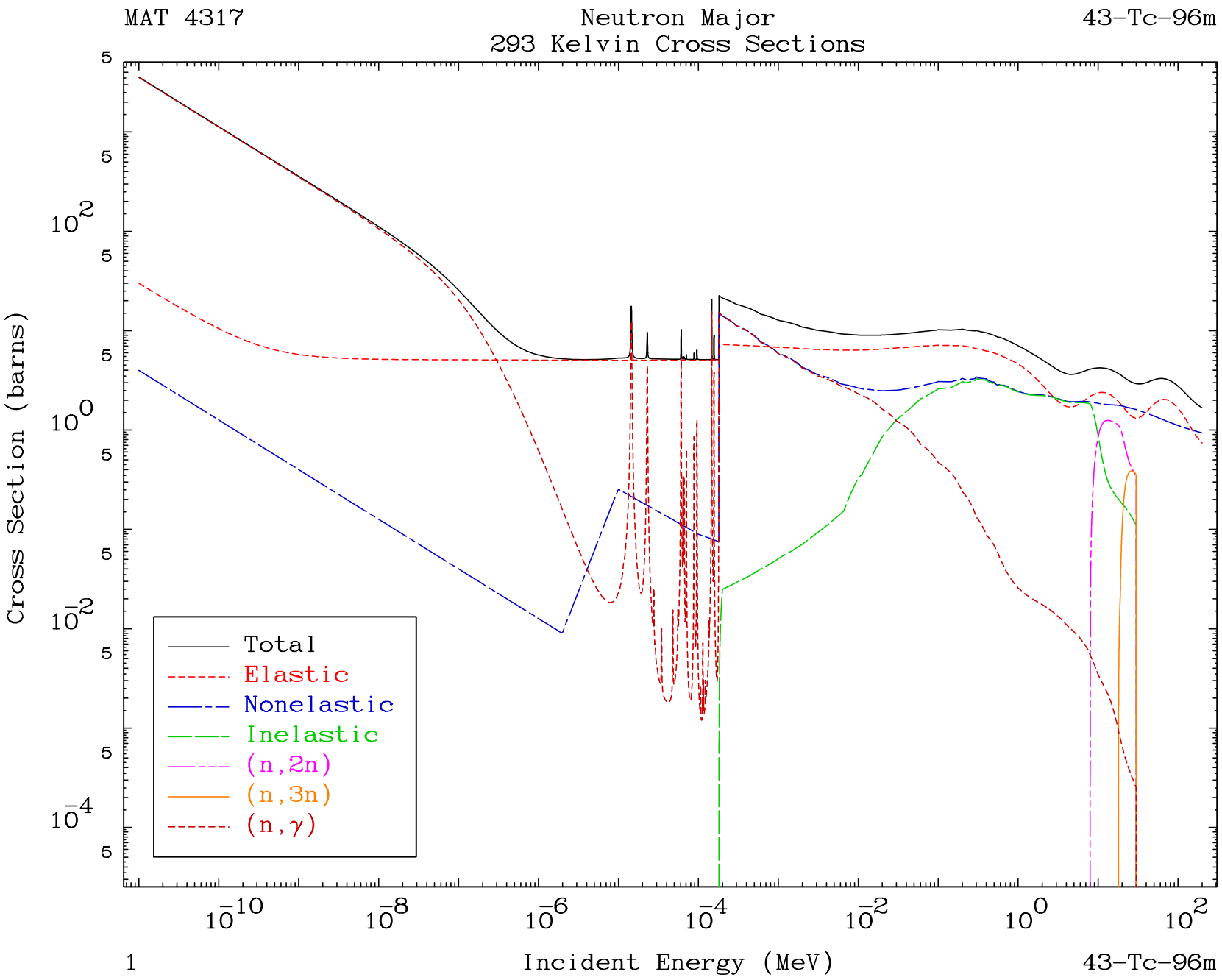
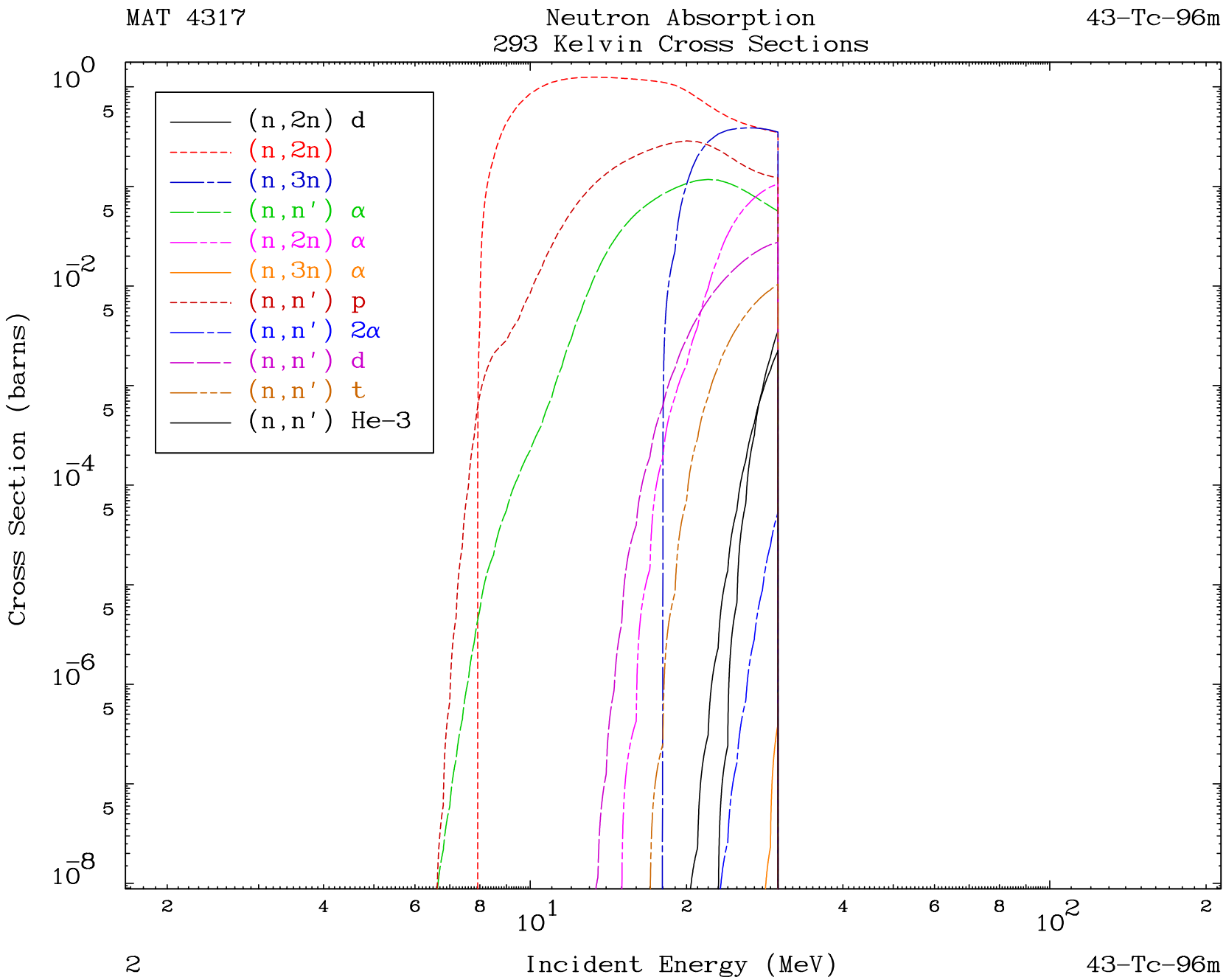
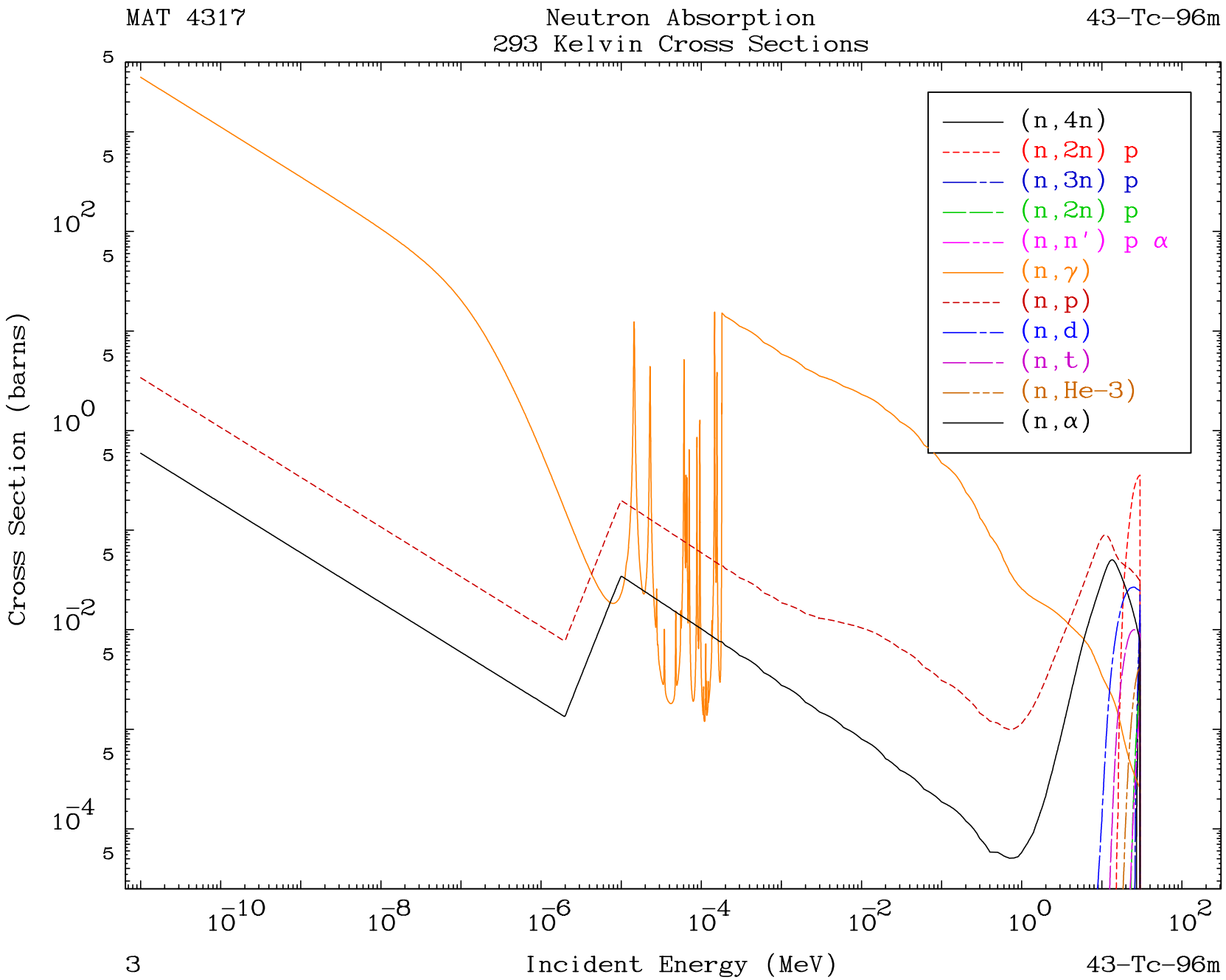
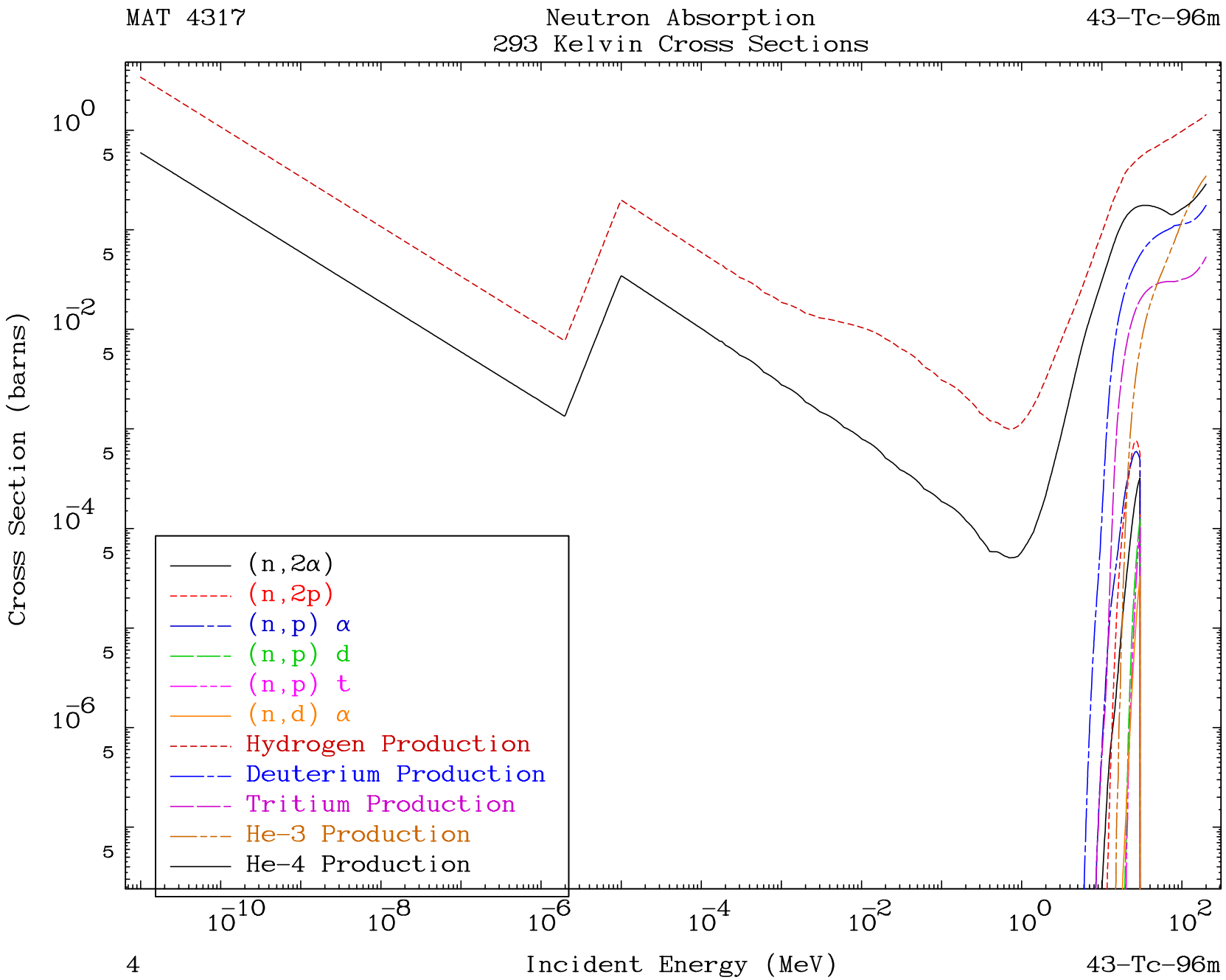
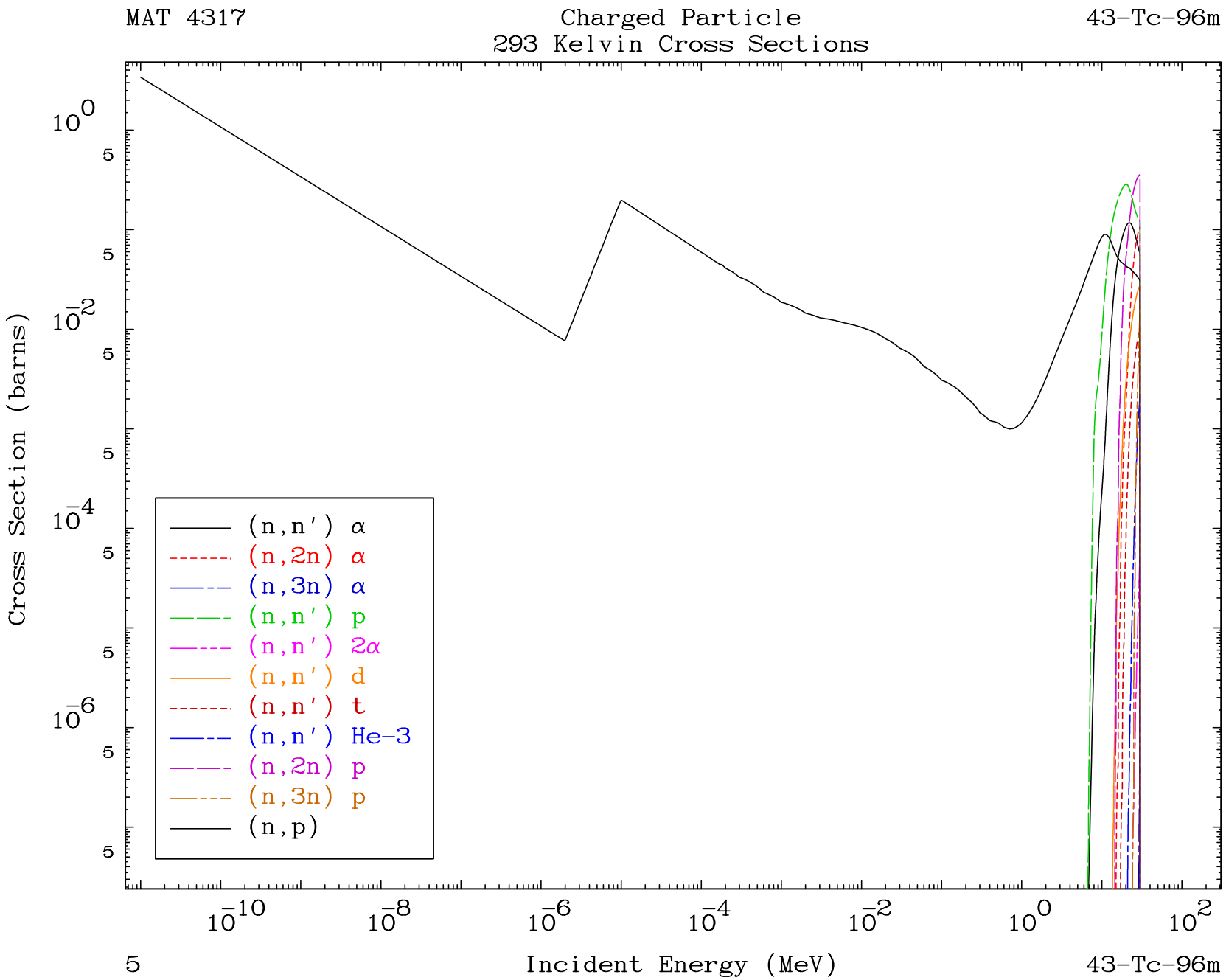
Press Mouse Button to Start

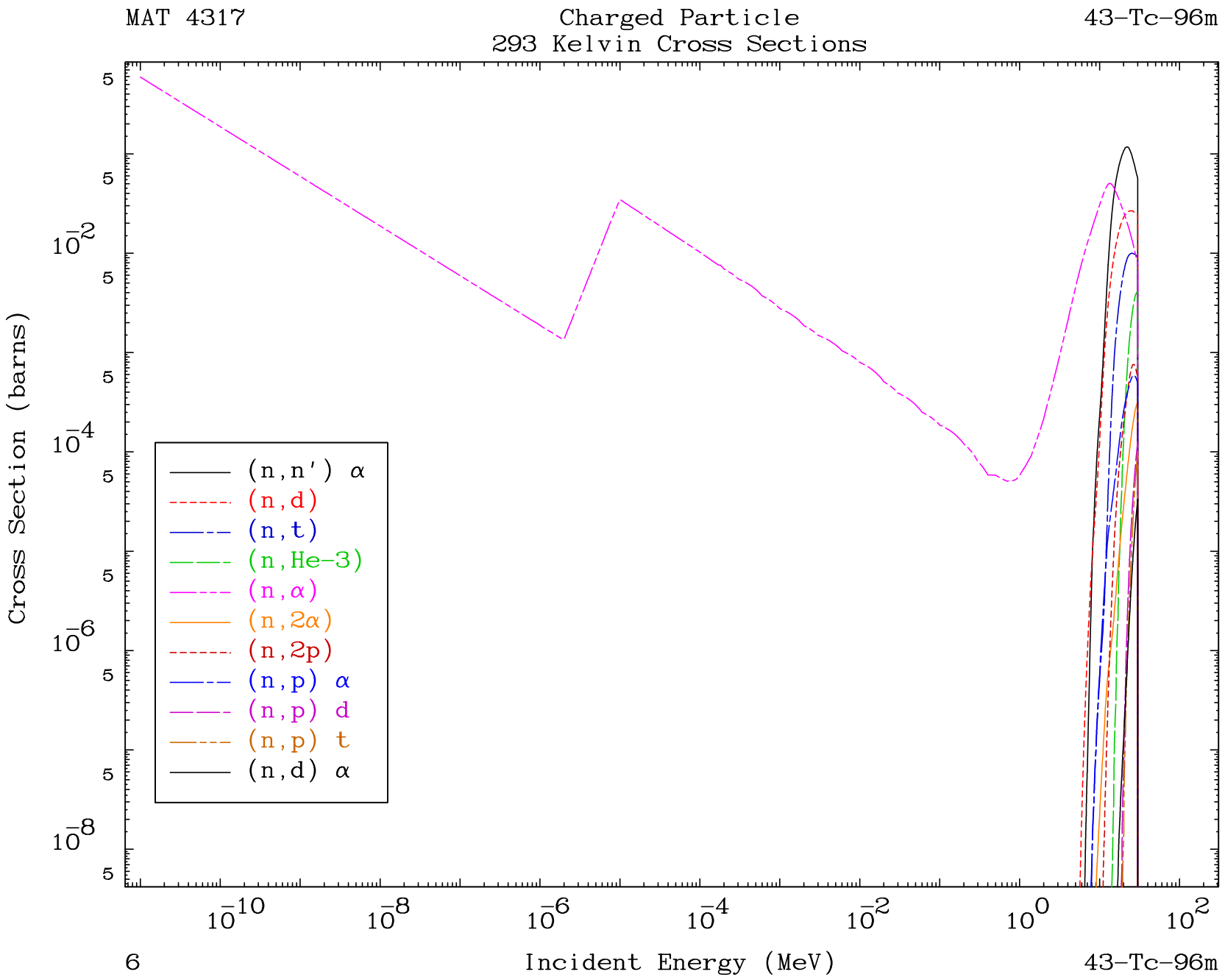

MAT 4317
Neutron Major
293 Kelvin Cross Sections
43-Tc-96m
Cross Section (barns)
Incident Energy (MeV)
Total
Elastic
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)
43-Tc-96m
1

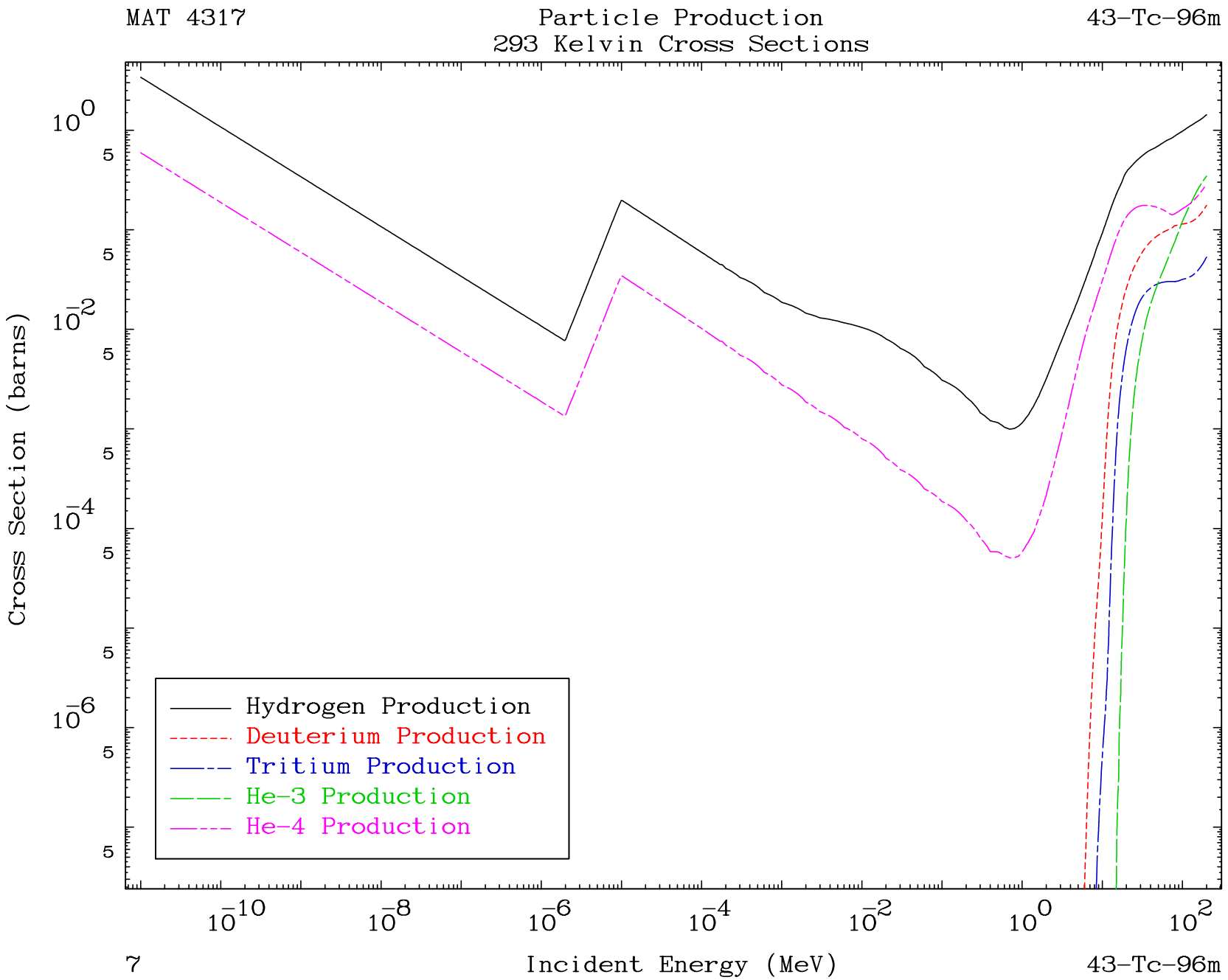

MAT 4317
Neutron Absorption
293 Kelvin Cross Sections
43-Tc-96m
(n,2n) d
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
(n,n') He-3
Cross Section (barns)
Incident Energy (MeV)
43-Tc-96m

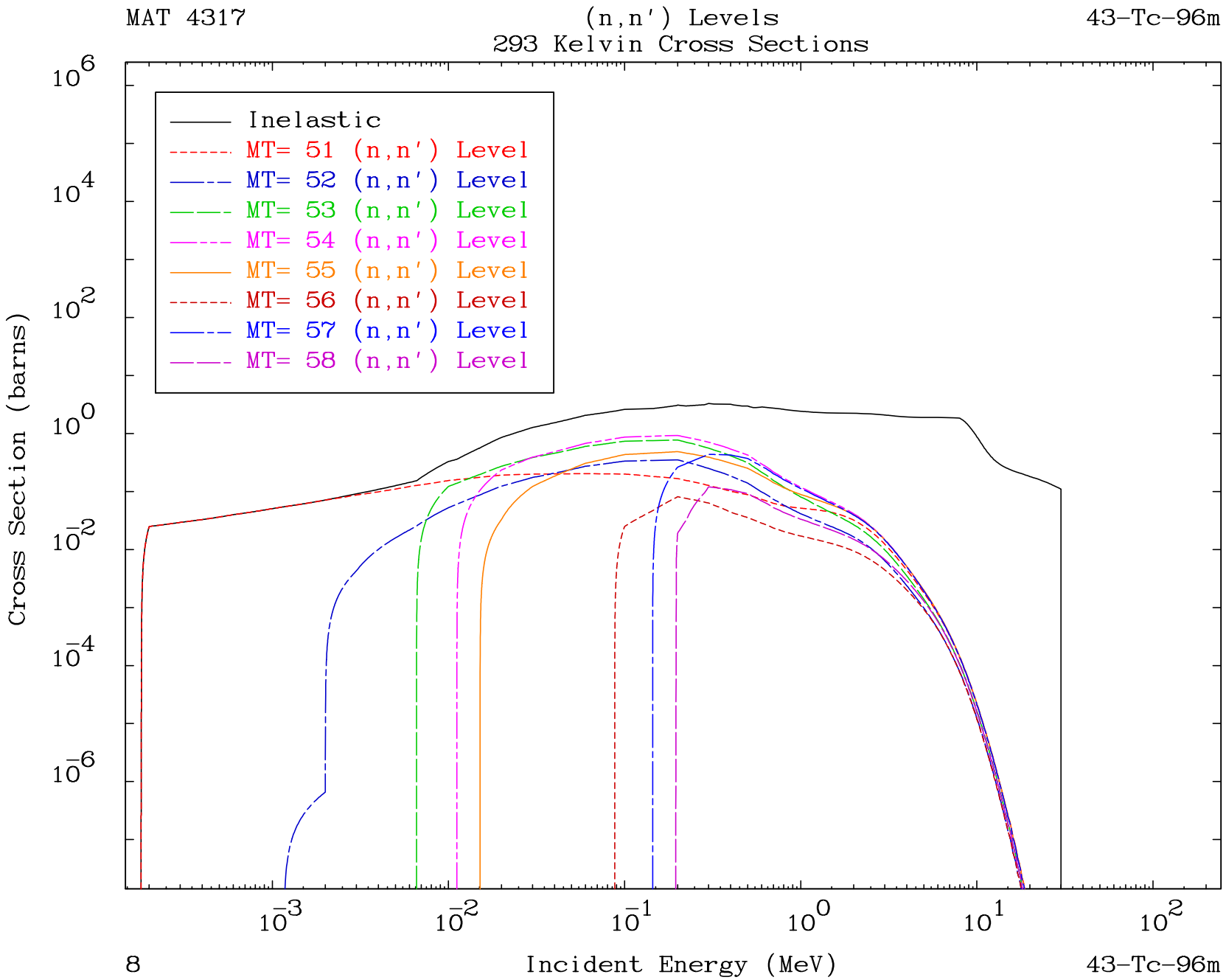

MAT 4317
Neutron Absorption
293 Kelvin Cross Sections
43-Tc-96m
Cross Section (barns)
Incident Energy (MeV)
3
43-Tc-96m
(n,4n)
(n,2n) p
(n,3n) p
(n,2n) p
(n,n') p α
(n,γ)
(n,p)
(n,d)
(n,t)
(n,He-3)
(n,α)

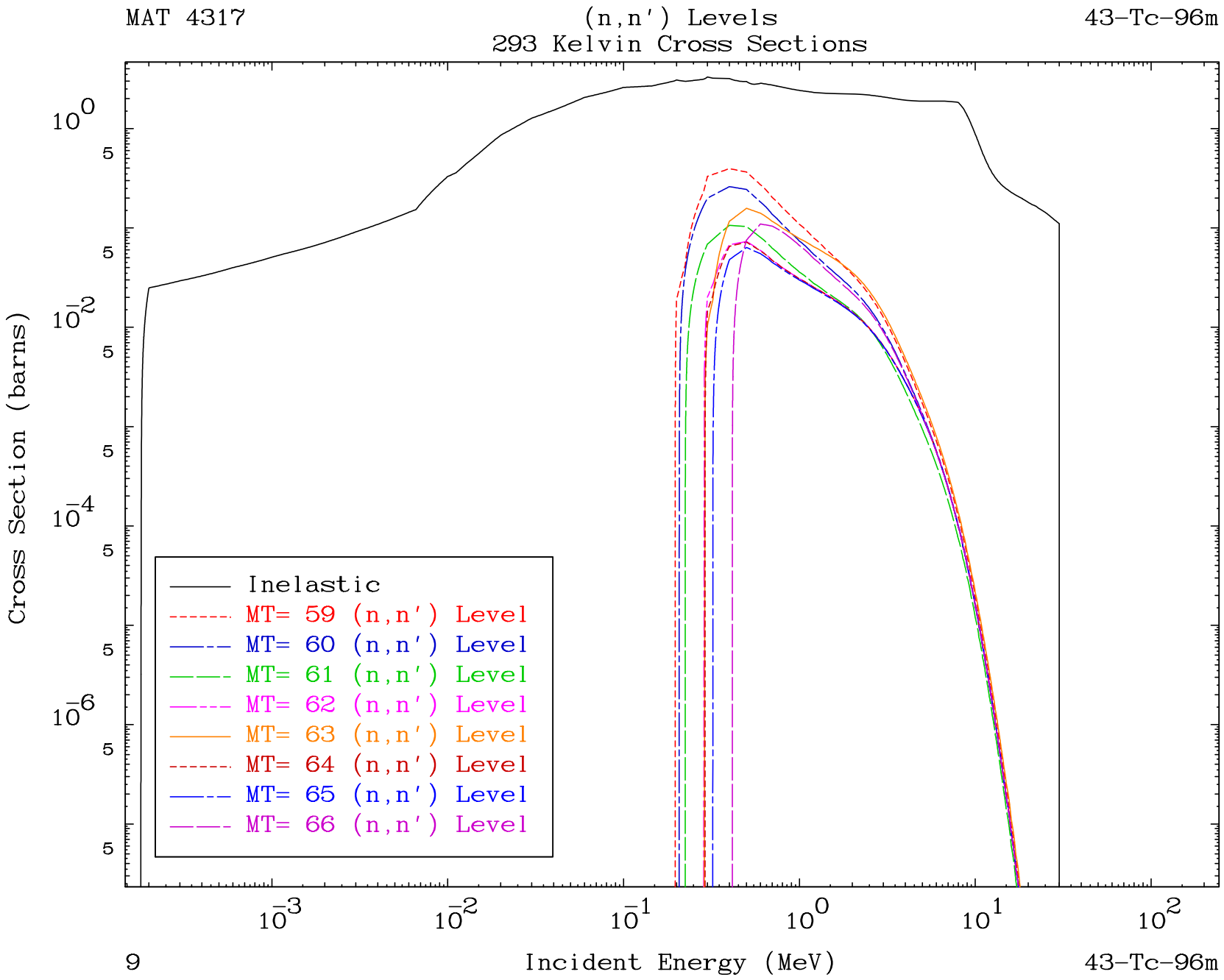

MAT 4317
Neutron Absorption
293 Kelvin Cross Sections
43-Tc-96m
Cross Section (barns)
Incident Energy (MeV)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production
4
43-Tc-96m

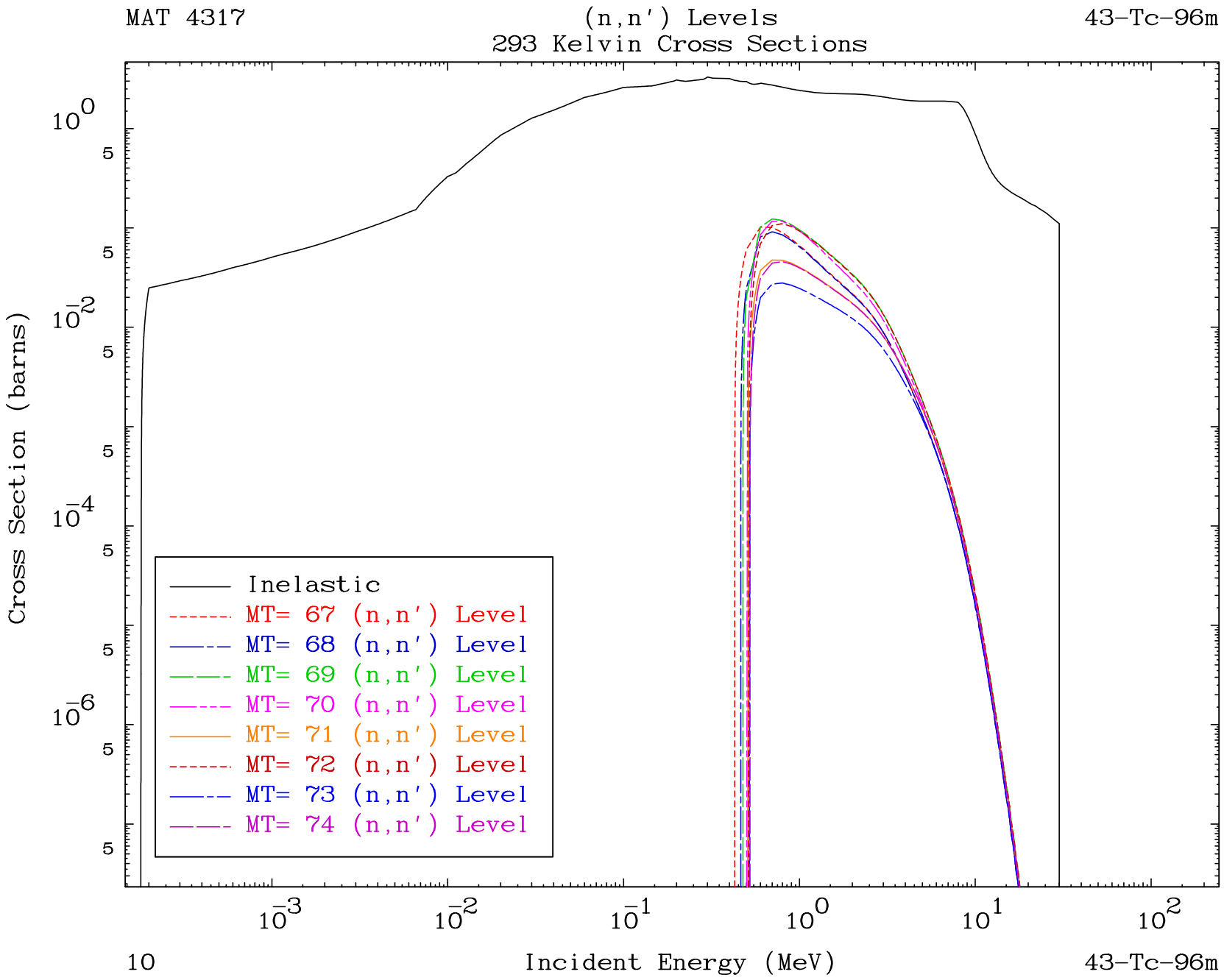

MAT 4317
Charged Particle
293 Kelvin Cross Sections
43-Tc-96m
Cross Section (barns)
Incident Energy (MeV)
43-Tc-96m
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
(n,3n) p
(n,p)

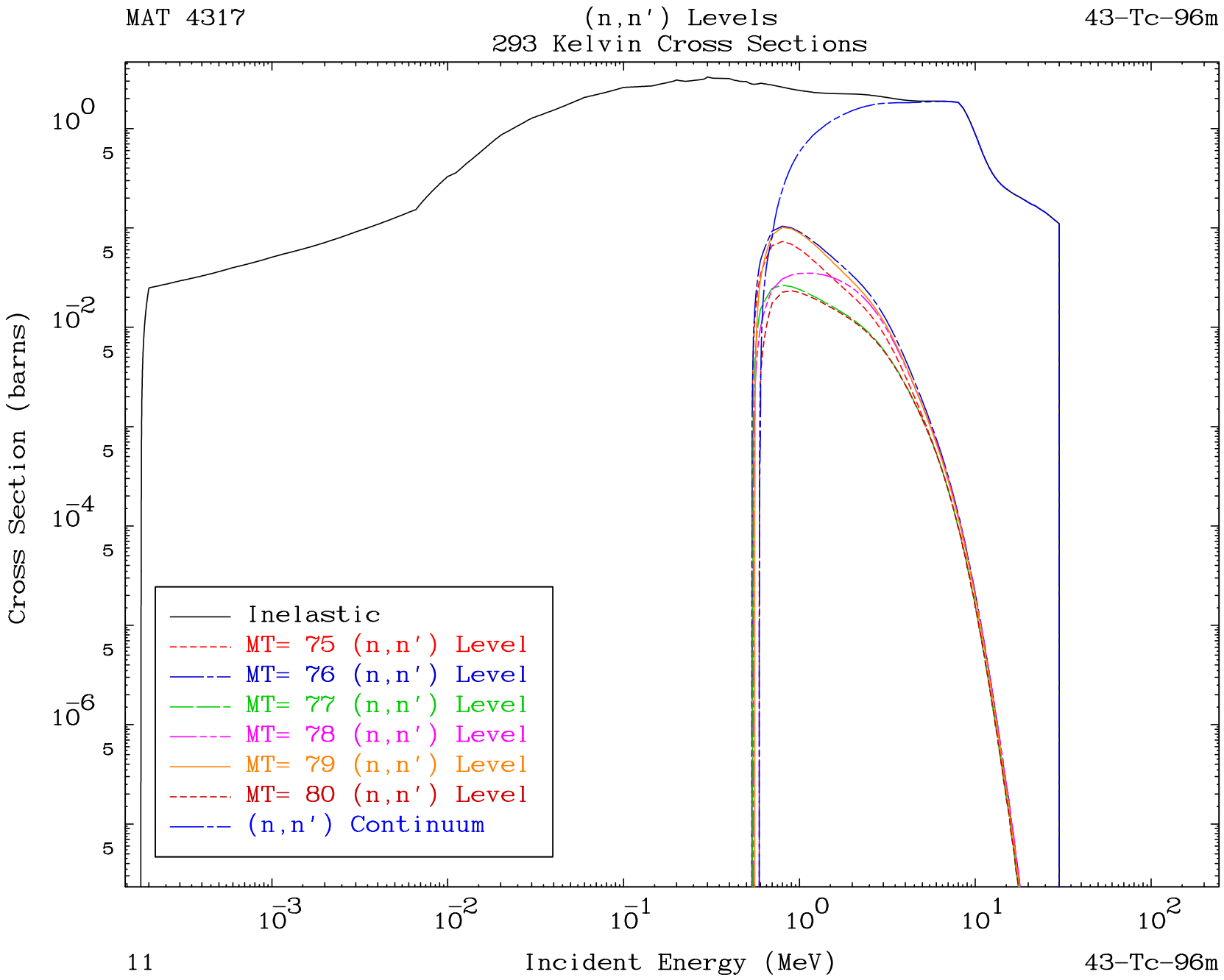

MAT 4317
Charged Particle
293 Kelvin Cross Sections
43-Tc-96m
Cross Section (barns)
Incident Energy (MeV)
(n,n') α
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
6

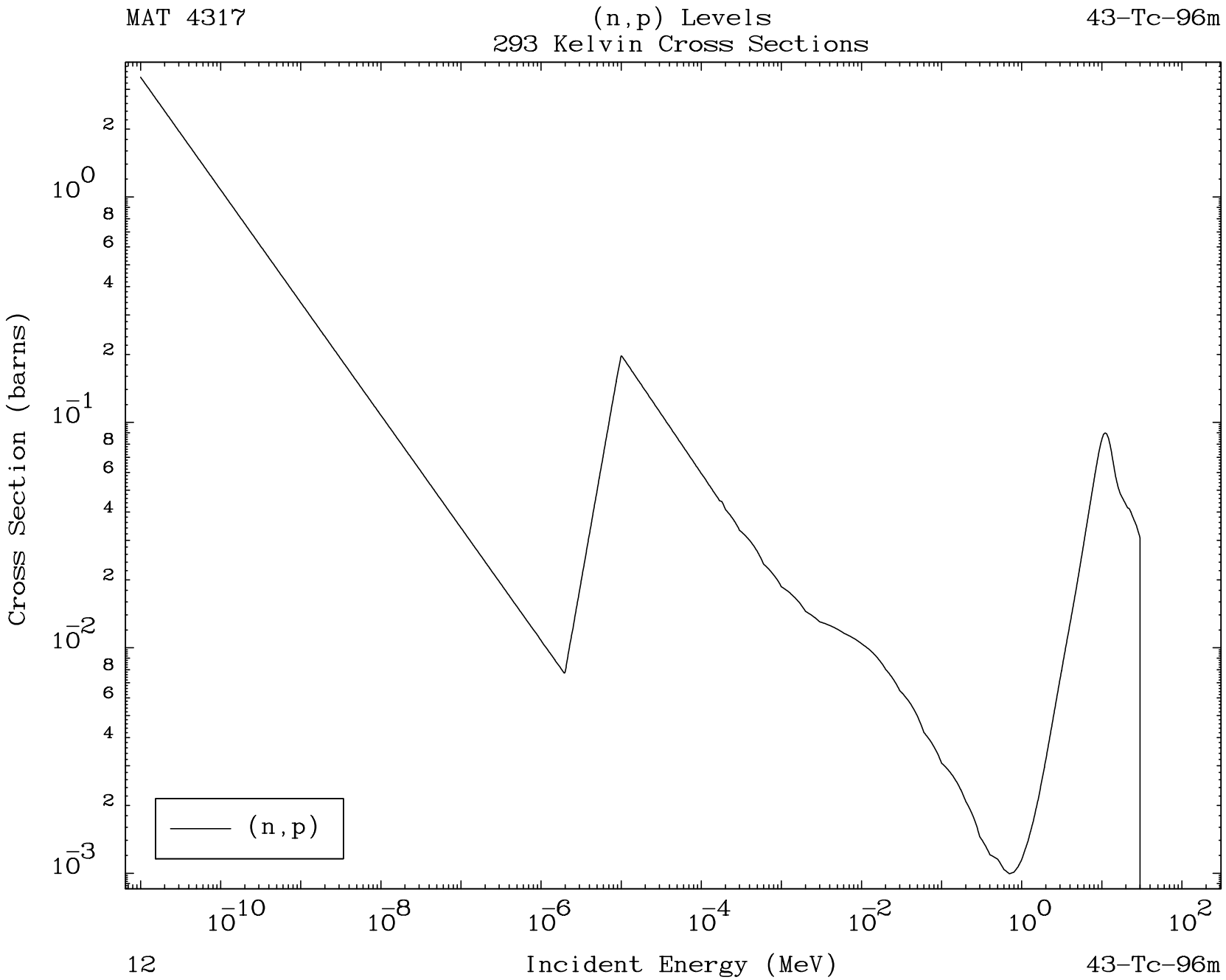

MAT 4317
Particle Production
293 Kelvin Cross Sections
43-Tc-96m
Cross Section (barns)
Incident Energy (MeV)
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production
7
43-Tc-96m

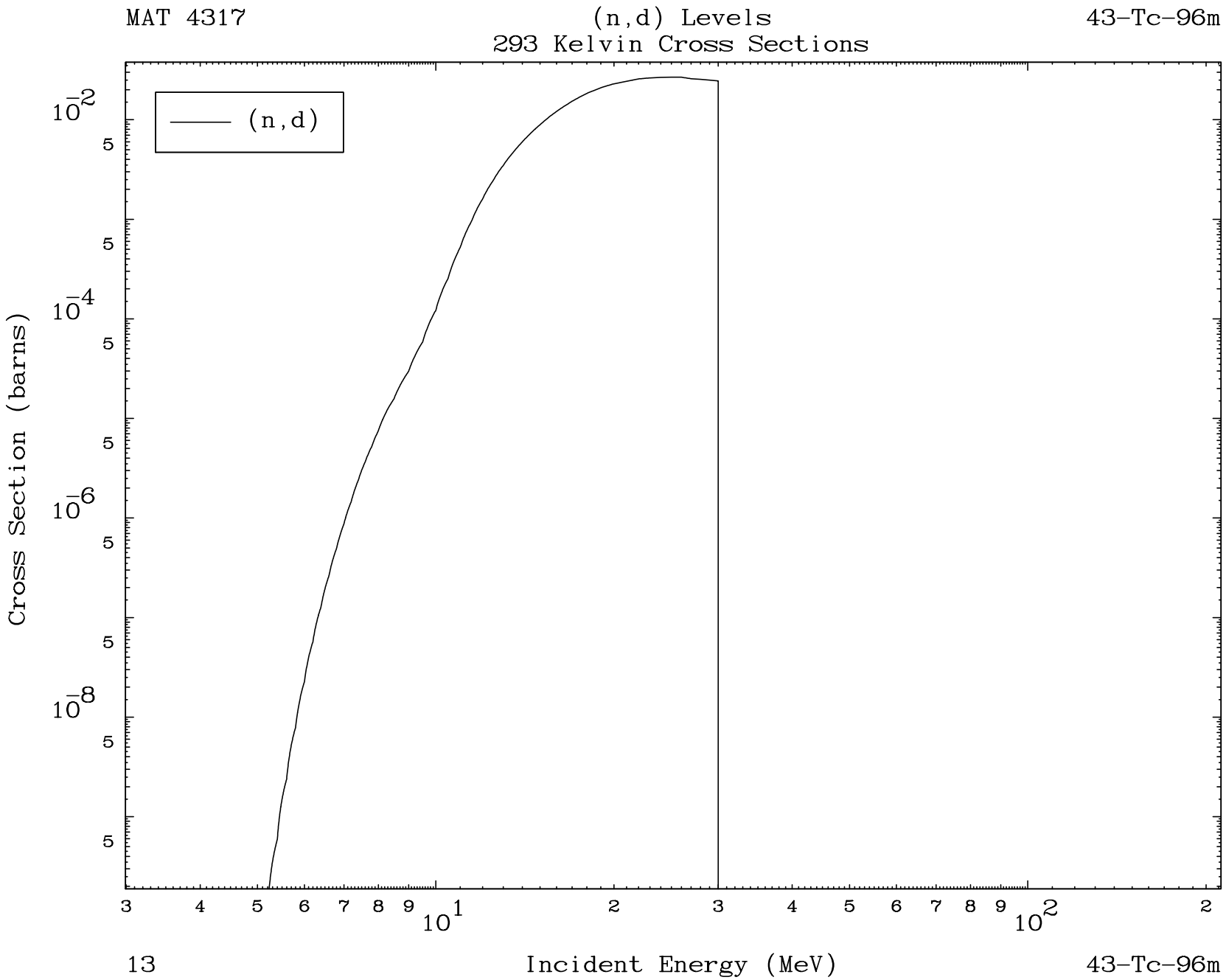

MAT 4317
(n,n') Levels
293 Kelvin Cross Sections
43-Tc-96m
Inelastic
MT= 51 (n,n') Level
MT= 52 (n,n') Level
MT= 53 (n,n') Level
MT= 54 (n,n') Level
MT= 55 (n,n') Level
MT= 56 (n,n') Level
MT= 57 (n,n') Level
MT= 58 (n,n') Level
Cross Section (barns)
Incident Energy (MeV)
8
43-Tc-96m

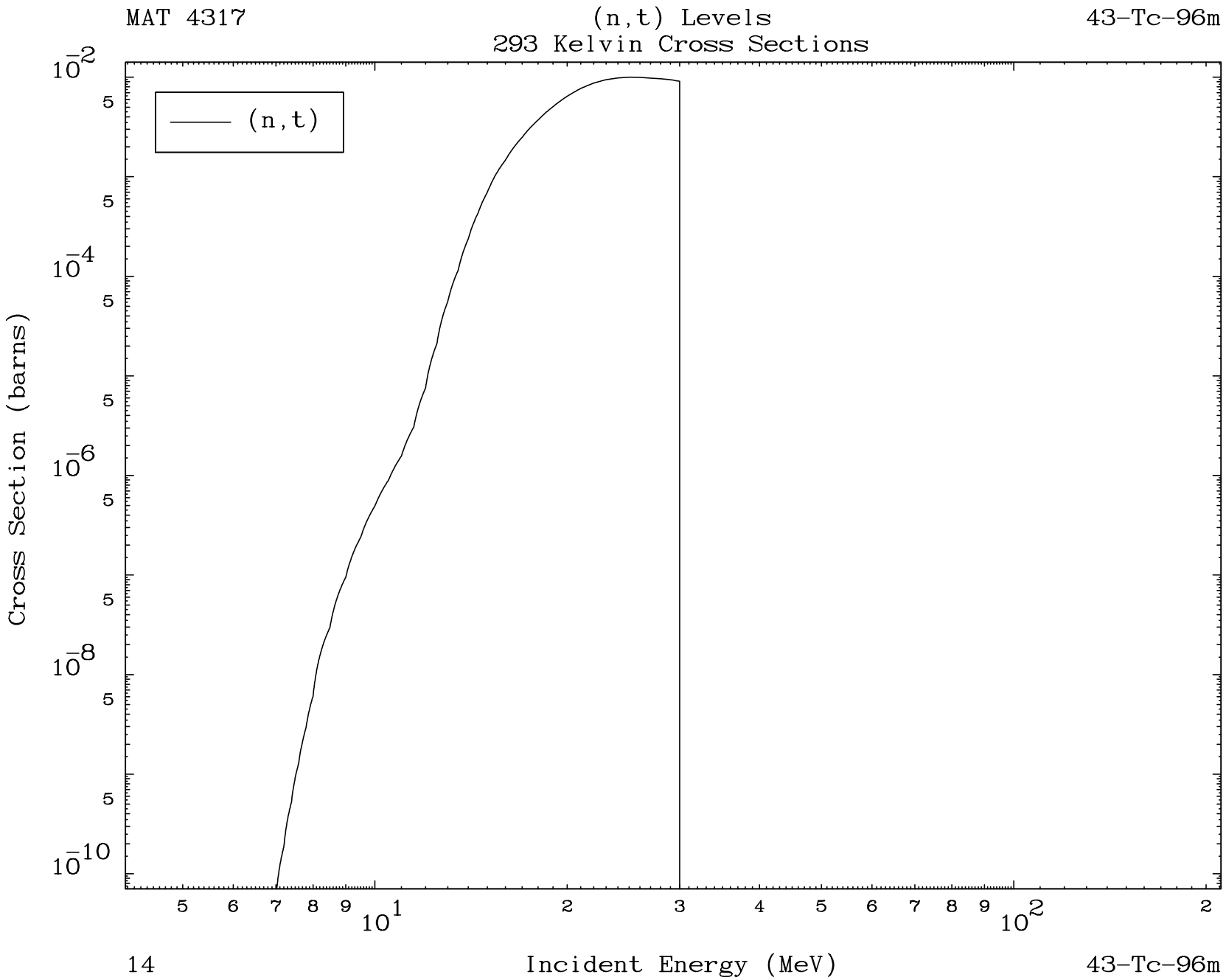

MAT 4317
(n,n') Levels
293 Kelvin Cross Sections
43-Tc-96m
Cross Section (barns)
Incident Energy (MeV)
Inelastic
MT= 59 (n,n') Level
MT= 60 (n,n') Level
MT= 61 (n,n') Level
MT= 62 (n,n') Level
MT= 63 (n,n') Level
MT= 64 (n,n') Level
MT= 65 (n,n') Level
MT= 66 (n,n') Level
9
43-Tc-96m

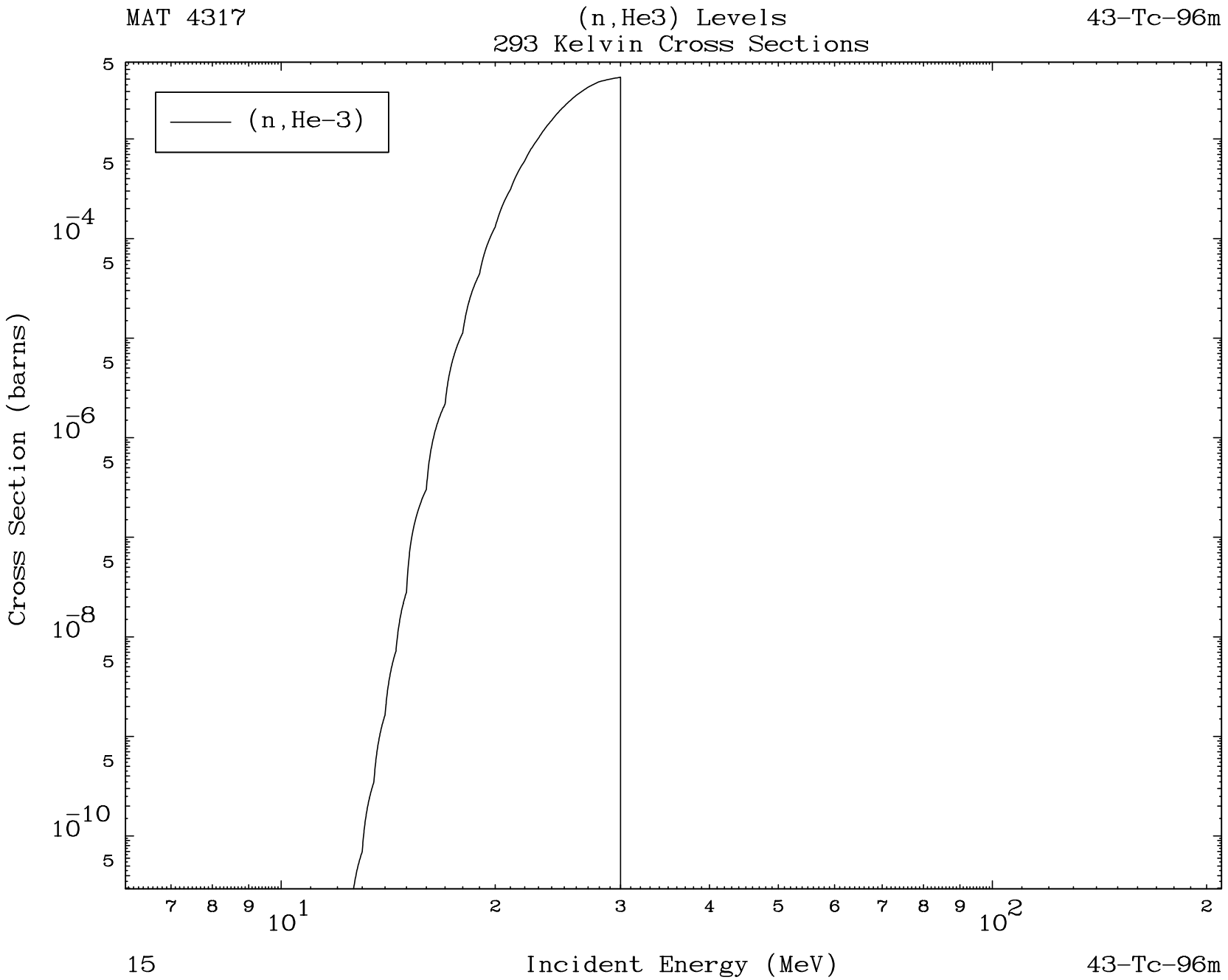

MAT 4317
(n,n') Levels
293 Kelvin Cross Sections
43-Tc-96m
Cross Section (barns)
Incident Energy (MeV)
Inelastic
MT= 67 (n,n') Level
MT= 68 (n,n') Level
MT= 69 (n,n') Level
MT= 70 (n,n') Level
MT= 71 (n,n') Level
MT= 72 (n,n') Level
MT= 73 (n,n') Level
MT= 74 (n,n') Level
10
43-Tc-96m

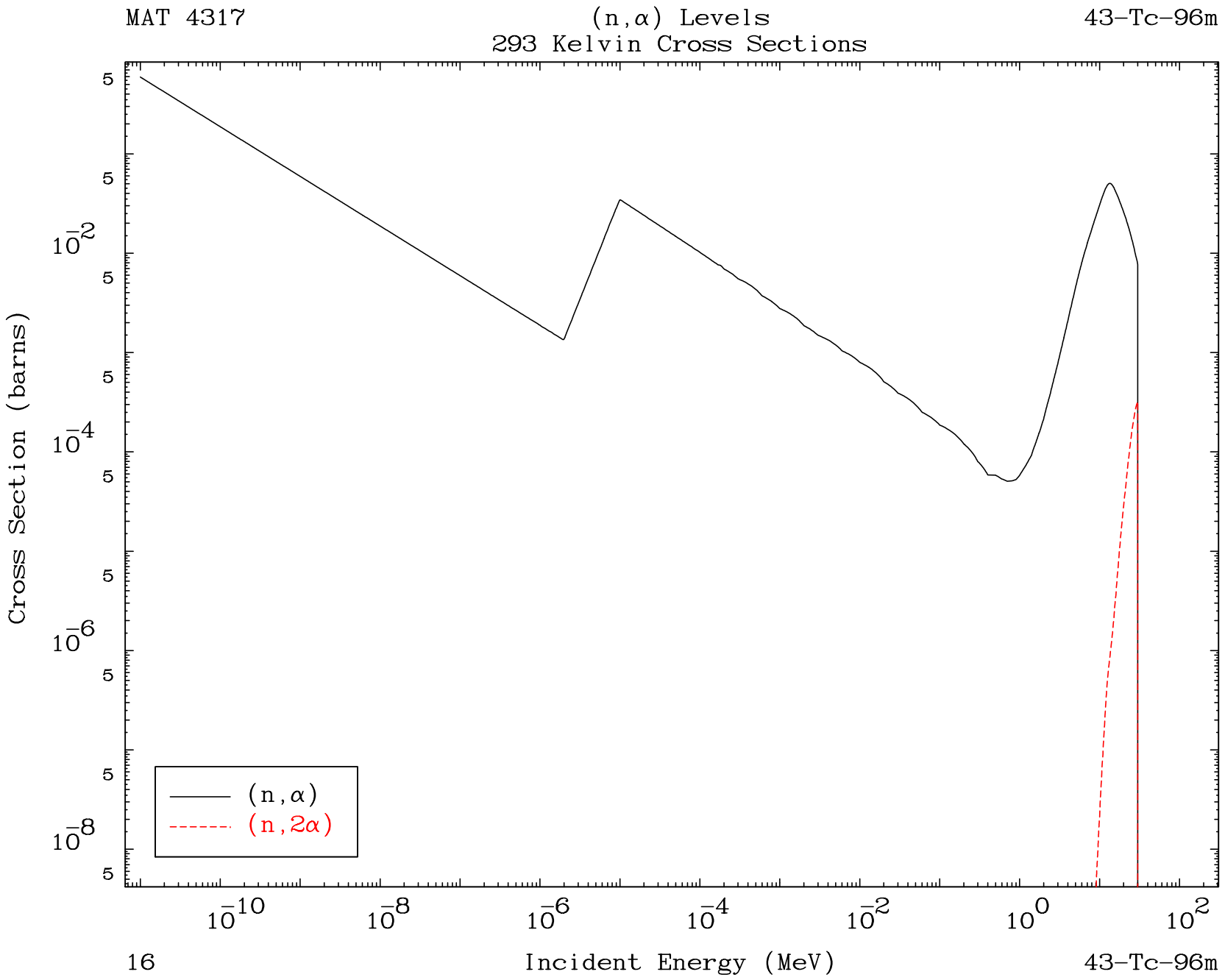

MAT 4317
(n,n') Levels
293 Kelvin Cross Sections
43-Tc-96m
Cross Section (barns)
Incident Energy (MeV)
Inelastic
MT= 75 (n,n') Level
MT= 76 (n,n') Level
MT= 77 (n,n') Level
MT= 78 (n,n') Level
MT= 79 (n,n') Level
MT= 80 (n,n') Level
(n,n') Continuum
11
43-Tc-96m

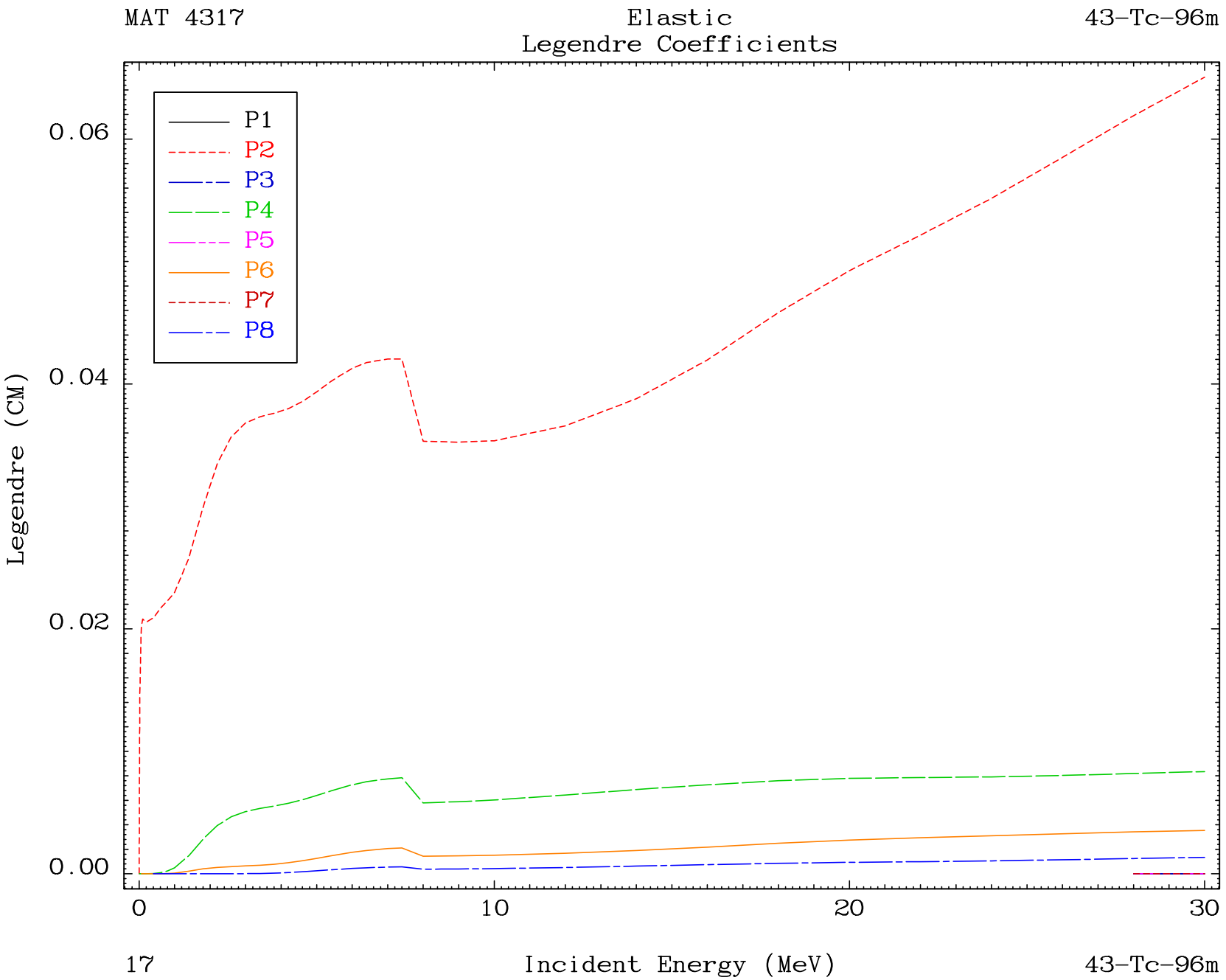

MAT 4317
(n,p) Levels
43-Tc-96m
293 Kelvin Cross Sections
Cross Section (barns)
(n,p)
Incident Energy (MeV)
12
43-Tc-96m

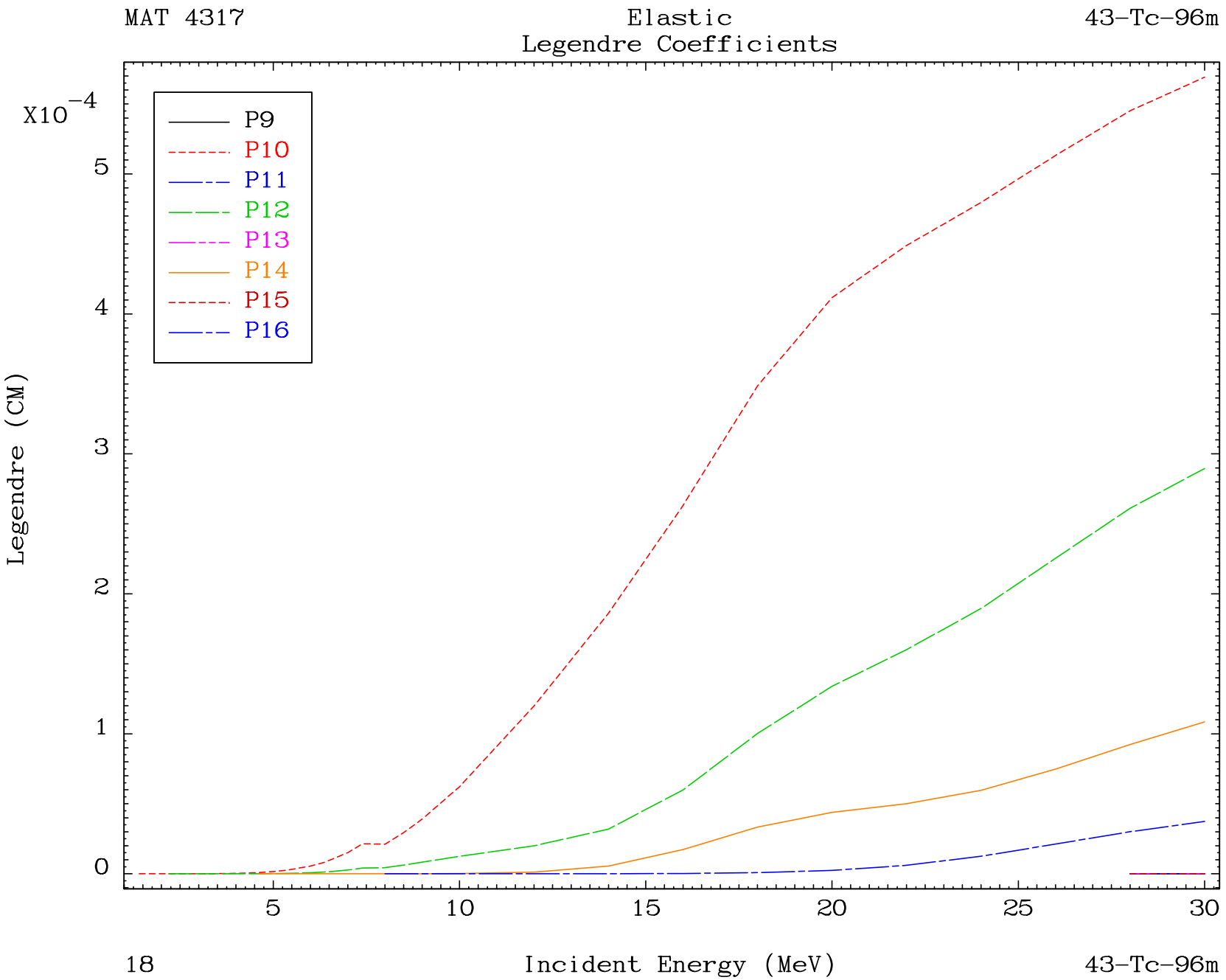

MAT 4317
(n,d) Levels
293 Kelvin Cross Sections
43-Tc-96m
(n,d)
Cross Section (barns)
10-2
10-4
10-6
10-8
3 4 5 6 7 8 9 10 1 2 3 4 5 6 7 8 9 10 2 2
Incident Energy (MeV)
13
43-Tc-96m

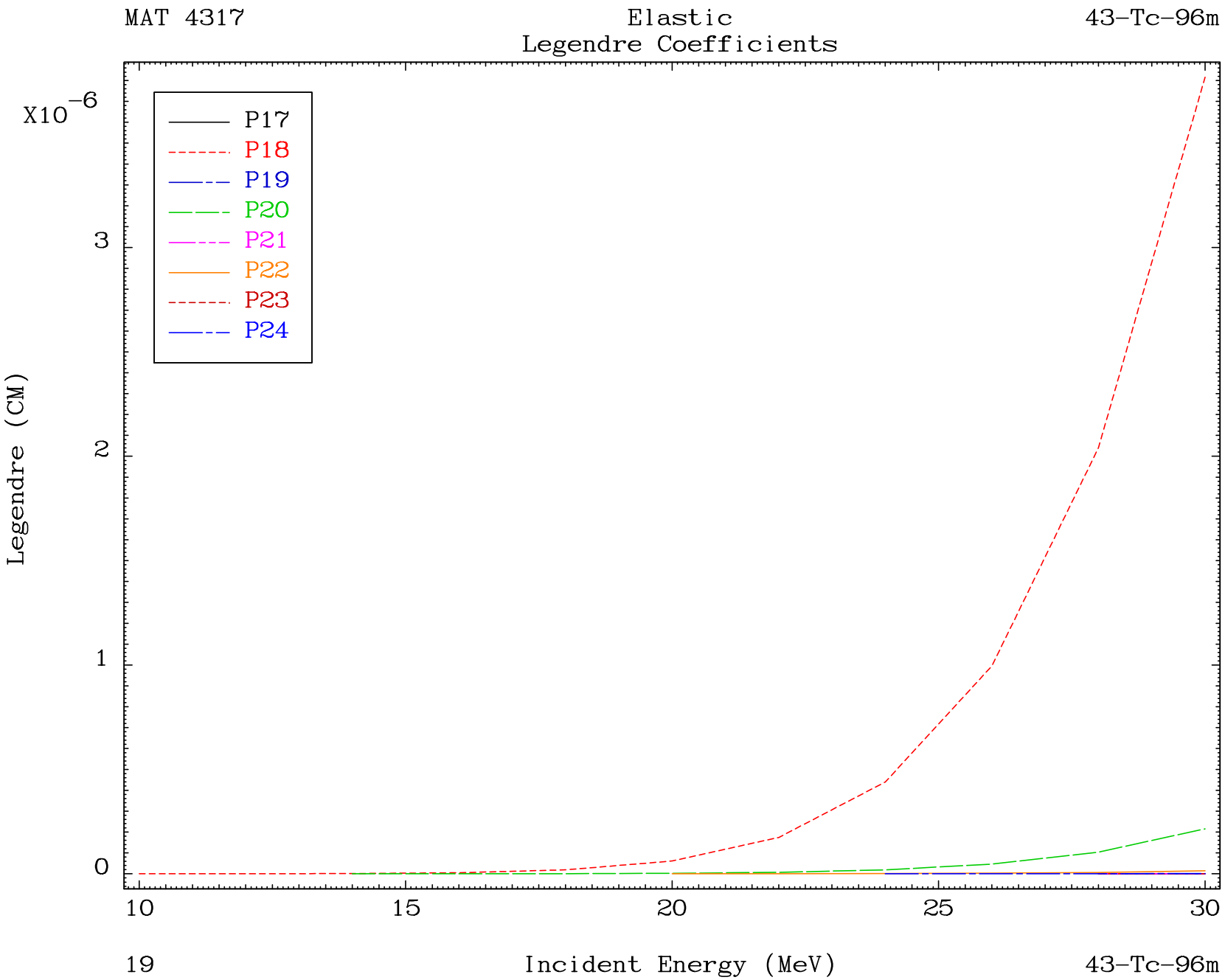

MAT 4317
(n,t) Levels
43-Tc-96m
293 Kelvin Cross Sections
(n,t)
Cross Section (barns)
Incident Energy (MeV)
14
43-Tc-96m

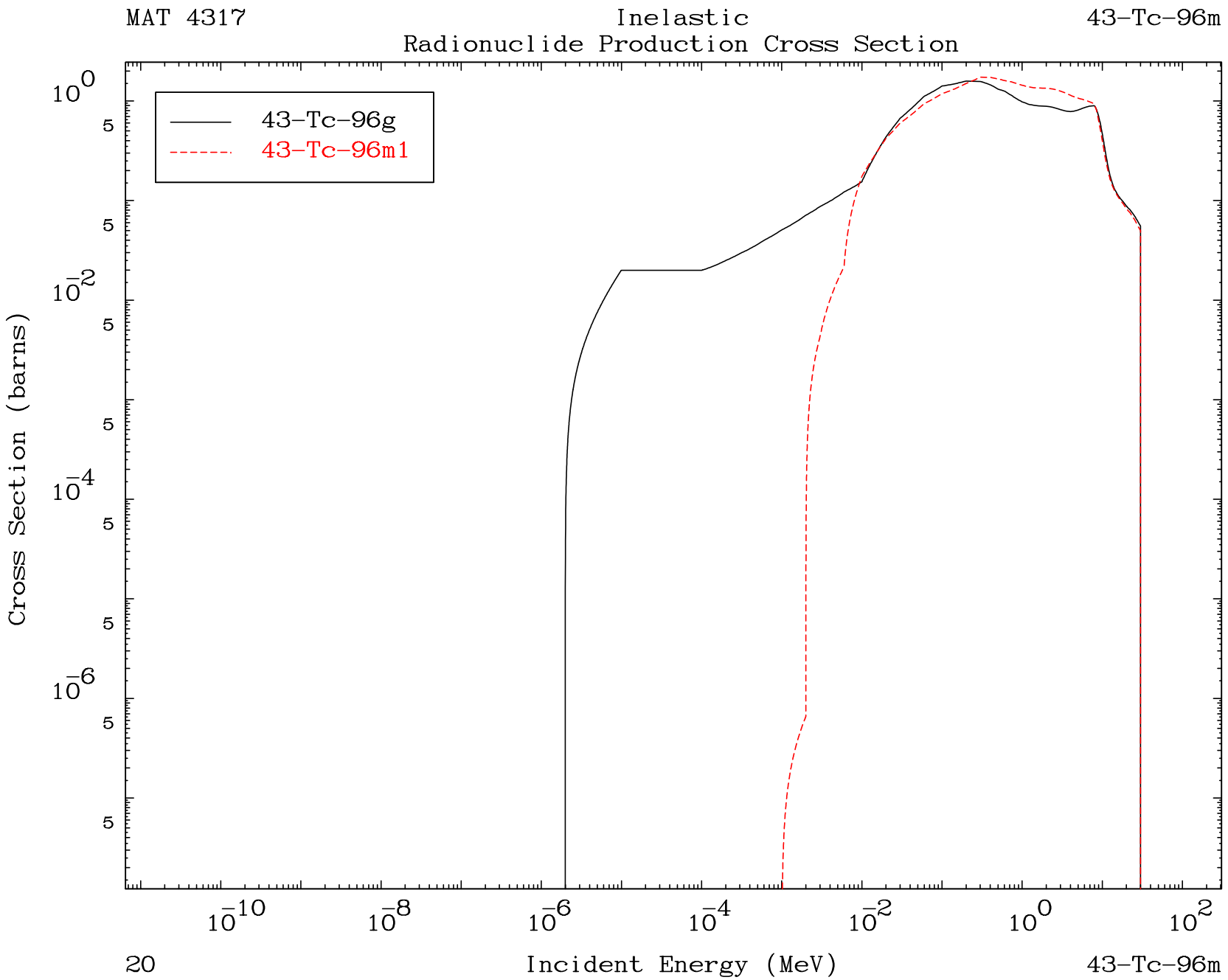

MAT 4317
(n,He3) Levels
43-Tc-96m
293 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
10-4
10-6
10-8
10-10
5
7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
Incident Energy (MeV)
15
43-Tc-96m

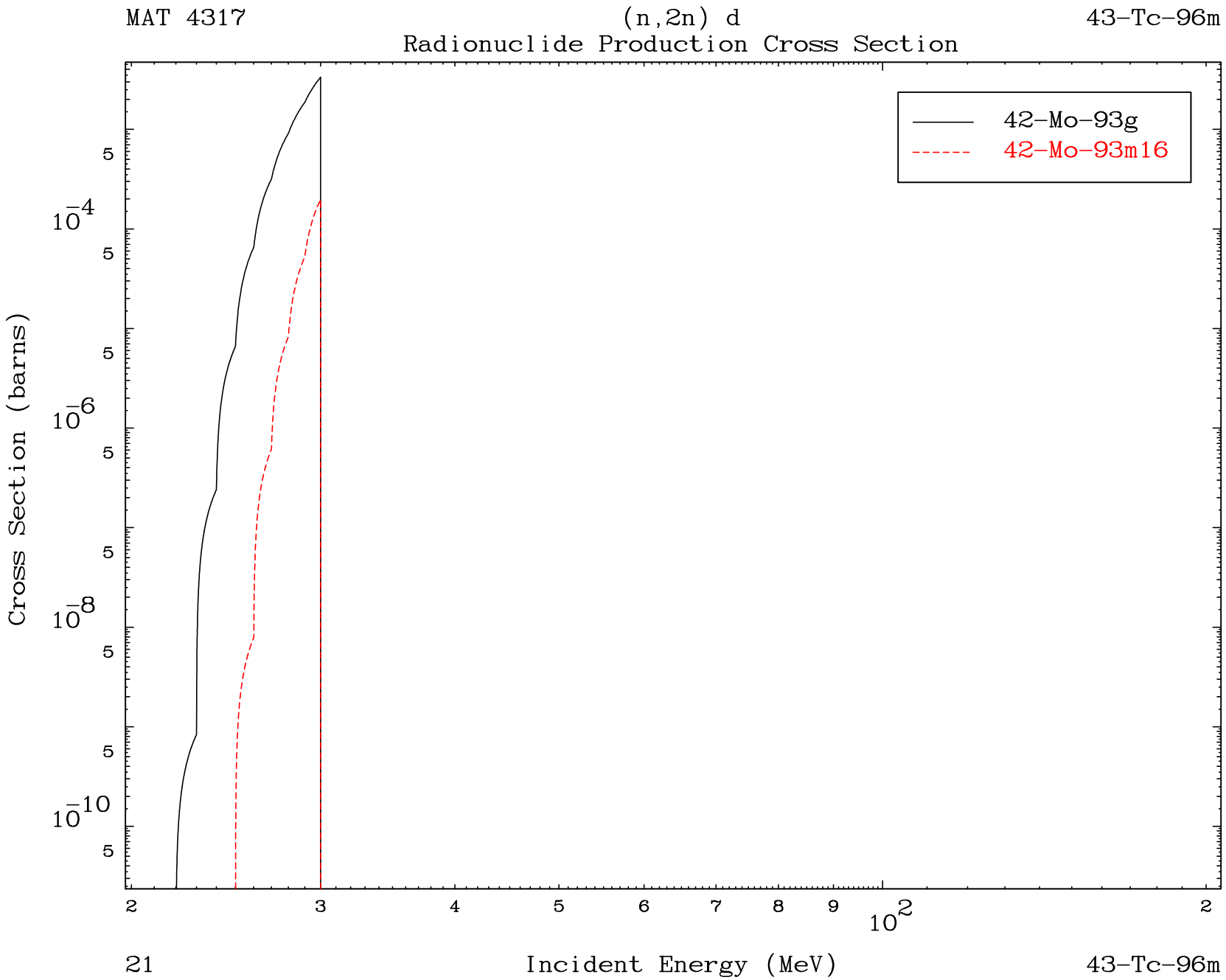

MAT 4317
(n,α) Levels
43-Tc-96m
293 Kelvin Cross Sections
Cross Section (barns)
Incident Energy (MeV)
(n,α)
(n,2α)
16
43-Tc-96m

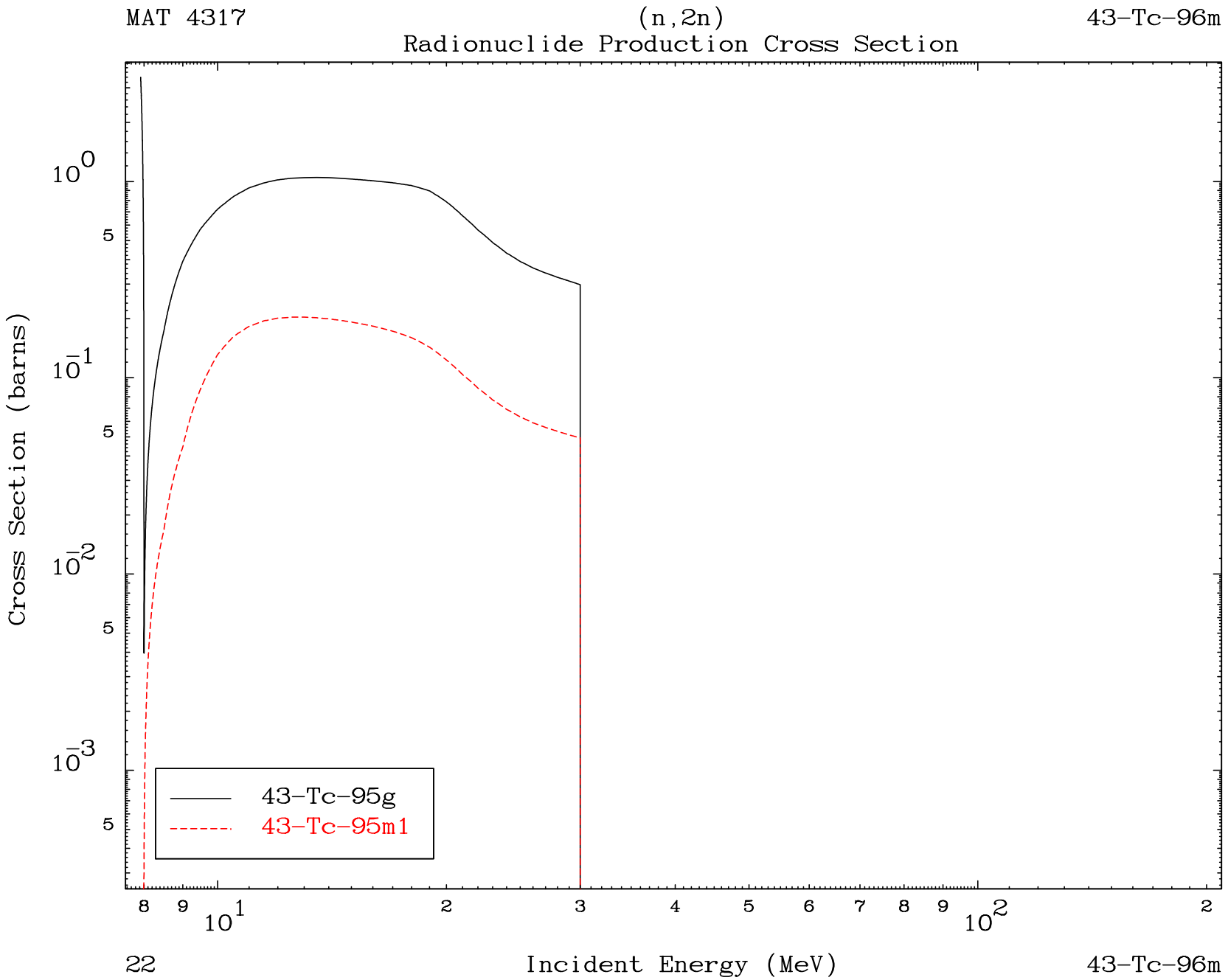

MAT 4317
Elastic
Legendre Coefficients
43-Tc-96m
P1
P2
P3
P4
P5
P6
P7
P8
0.06
0.04
0.02
0.00
Legendre (CM)
0
10
20
30
17
Incident Energy (MeV)
43-Tc-96m

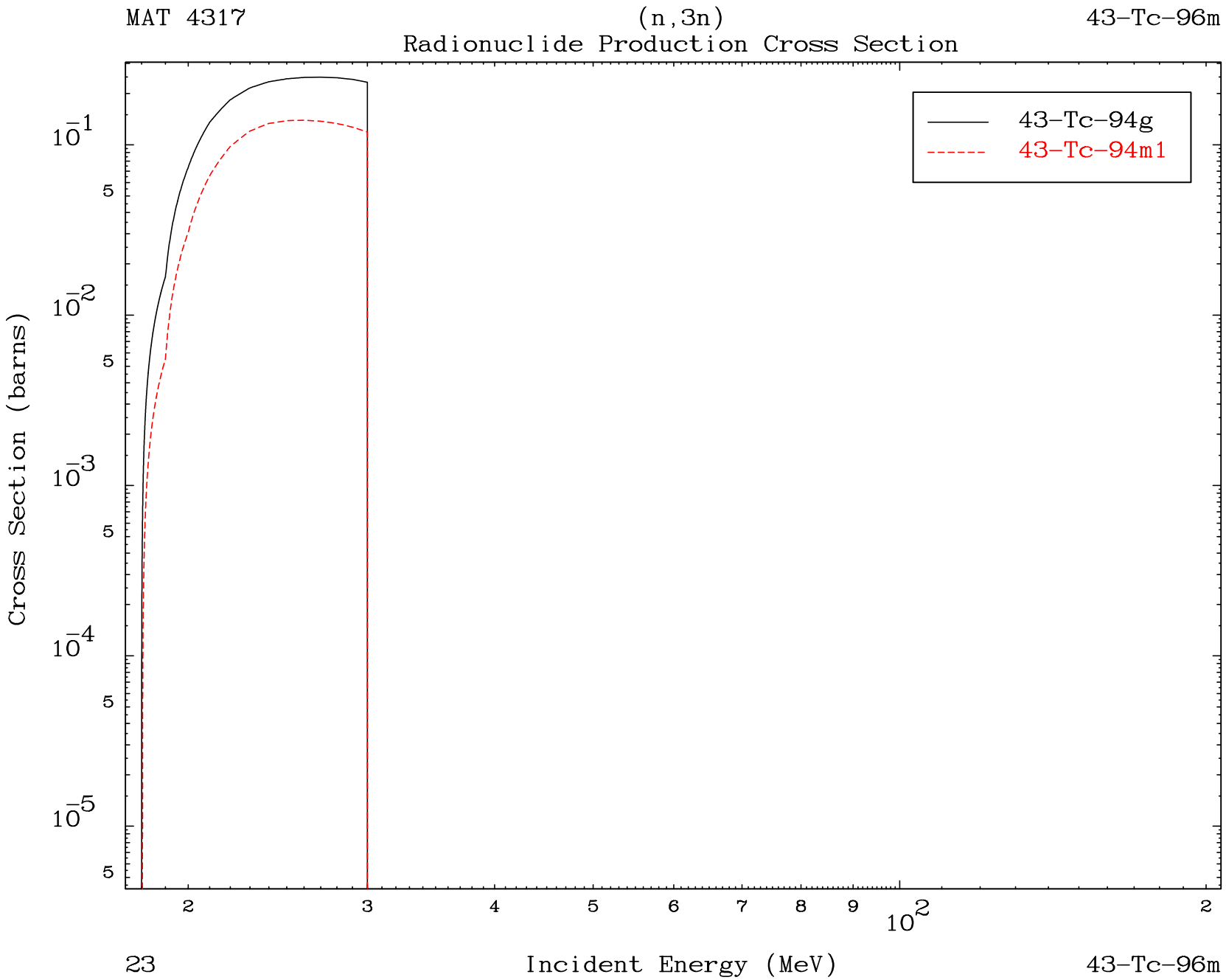

MAT 4317
Elastic
Legendre Coefficients
43-Tc-96m
X10^-4
P9
P10
P11
P12
P13
P14
P15
P16
Legendre (CM)
0
1
2
3
4
5
5
10
15
20
25
30
18
Incident Energy (MeV)
43-Tc-96m

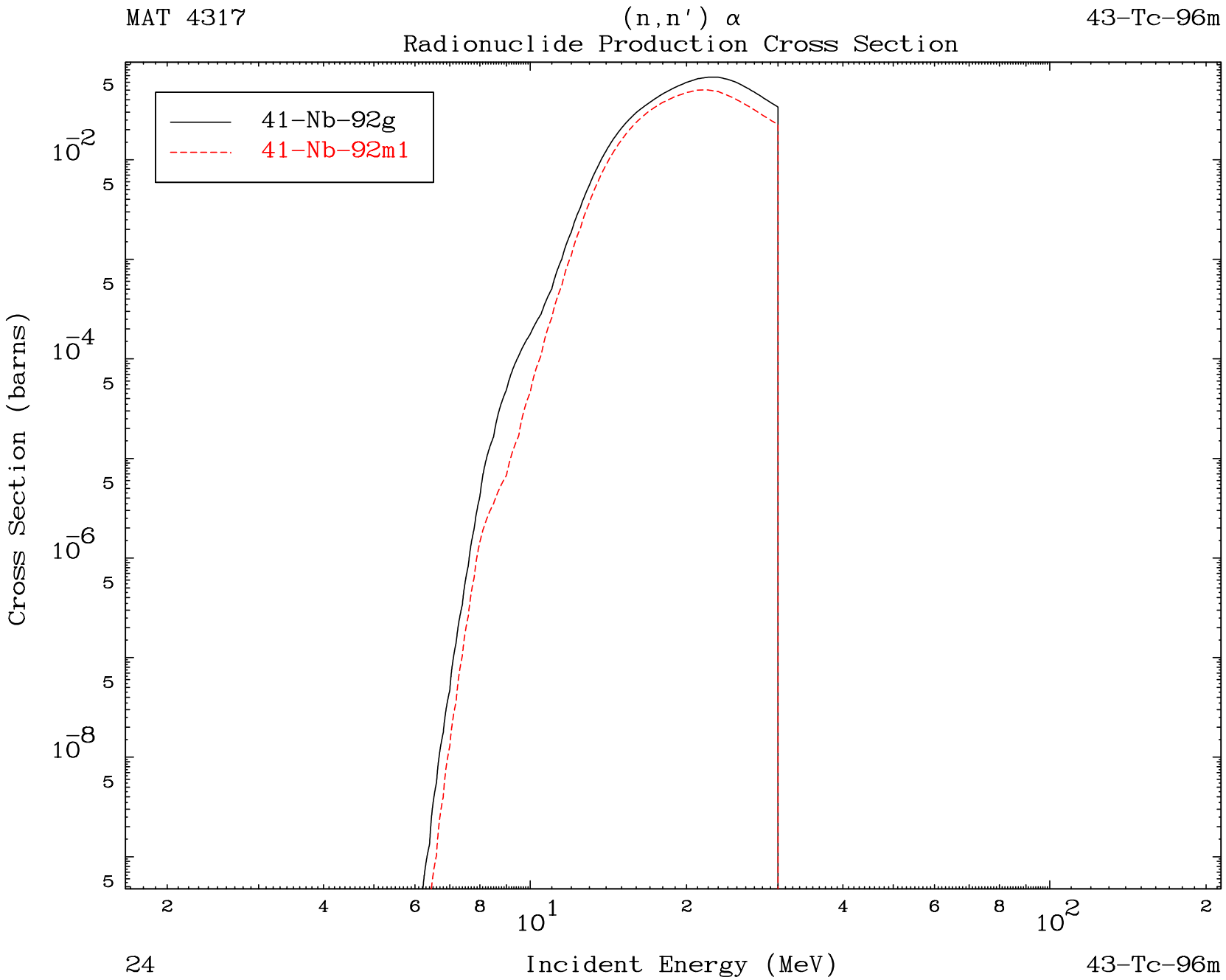

MAT 4317
Elastic
Legendre Coefficients
43-Tc-96m
X10^-6
3
2
1
0
Legendre (CM)
P17
P18
P19
P20
P21
P22
P23
P24
10
15
20
25
30
19
Incident Energy (MeV)
43-Tc-96m

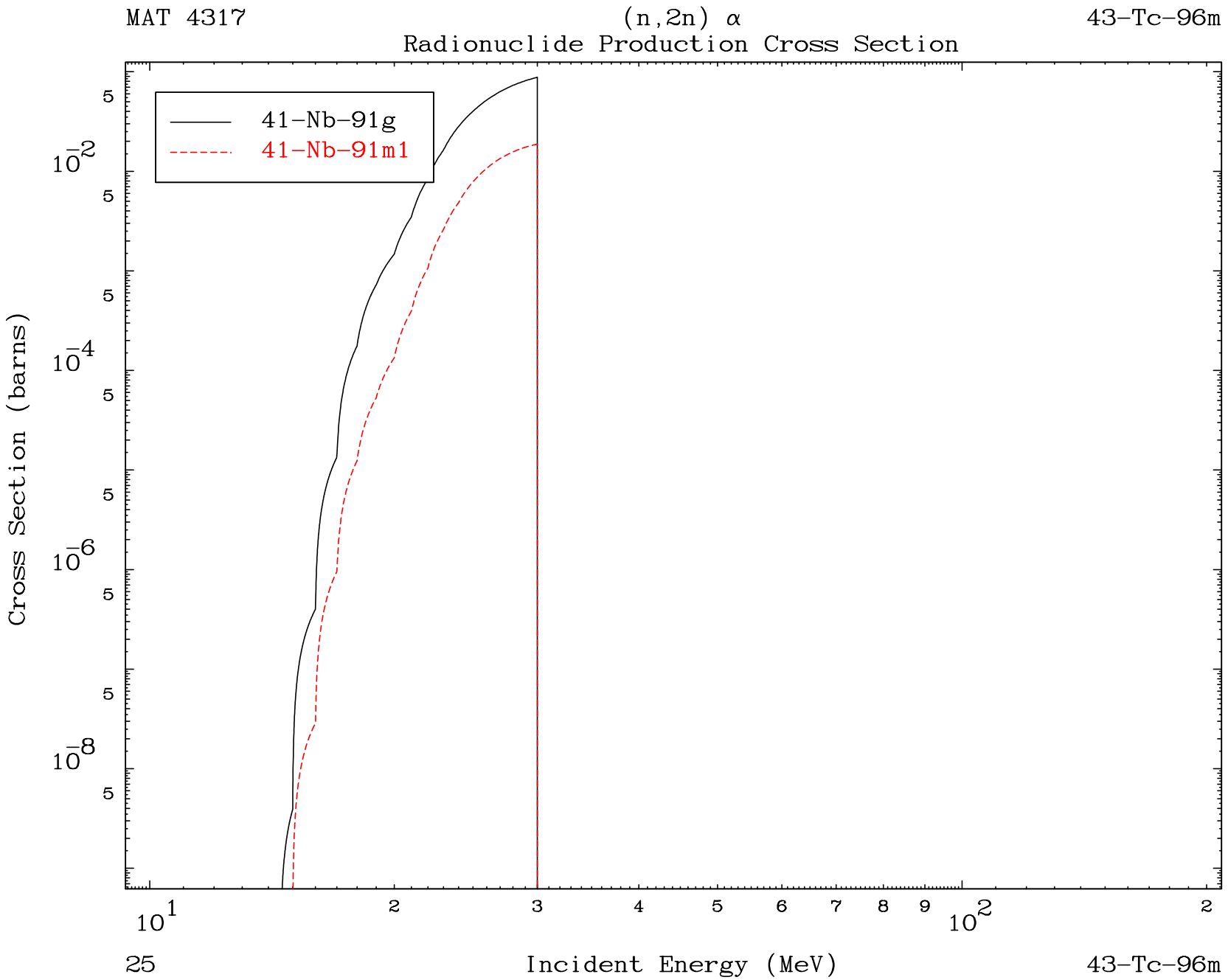

MAT 4317
Inelastic
43-Tc-96m
Radionuclide Production Cross Section
43-Tc-96g
43-Tc-96m1
Cross Section (barns)
Incident Energy (MeV)
20
43-Tc-96m

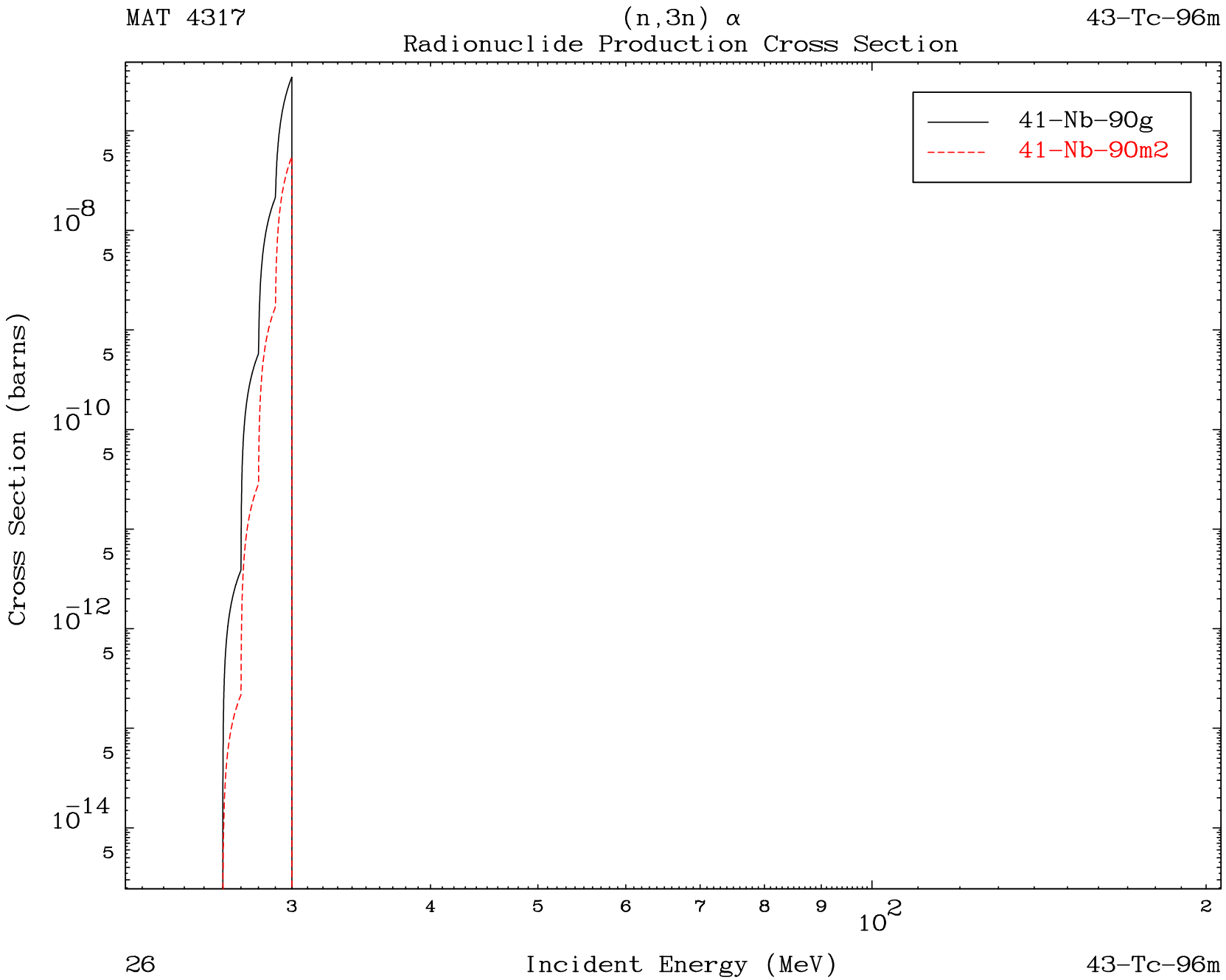

MAT 4317
(n,2n) d
43-Tc-96m
Radionuclide Production Cross Section
42-Mo-93g
42-Mo-93m16
Cross Section (barns)
10-4
10-6
10-8
10-10
2
3
4
5
6
7
8
9
10 2
2
21
Incident Energy (MeV)
43-Tc-96m

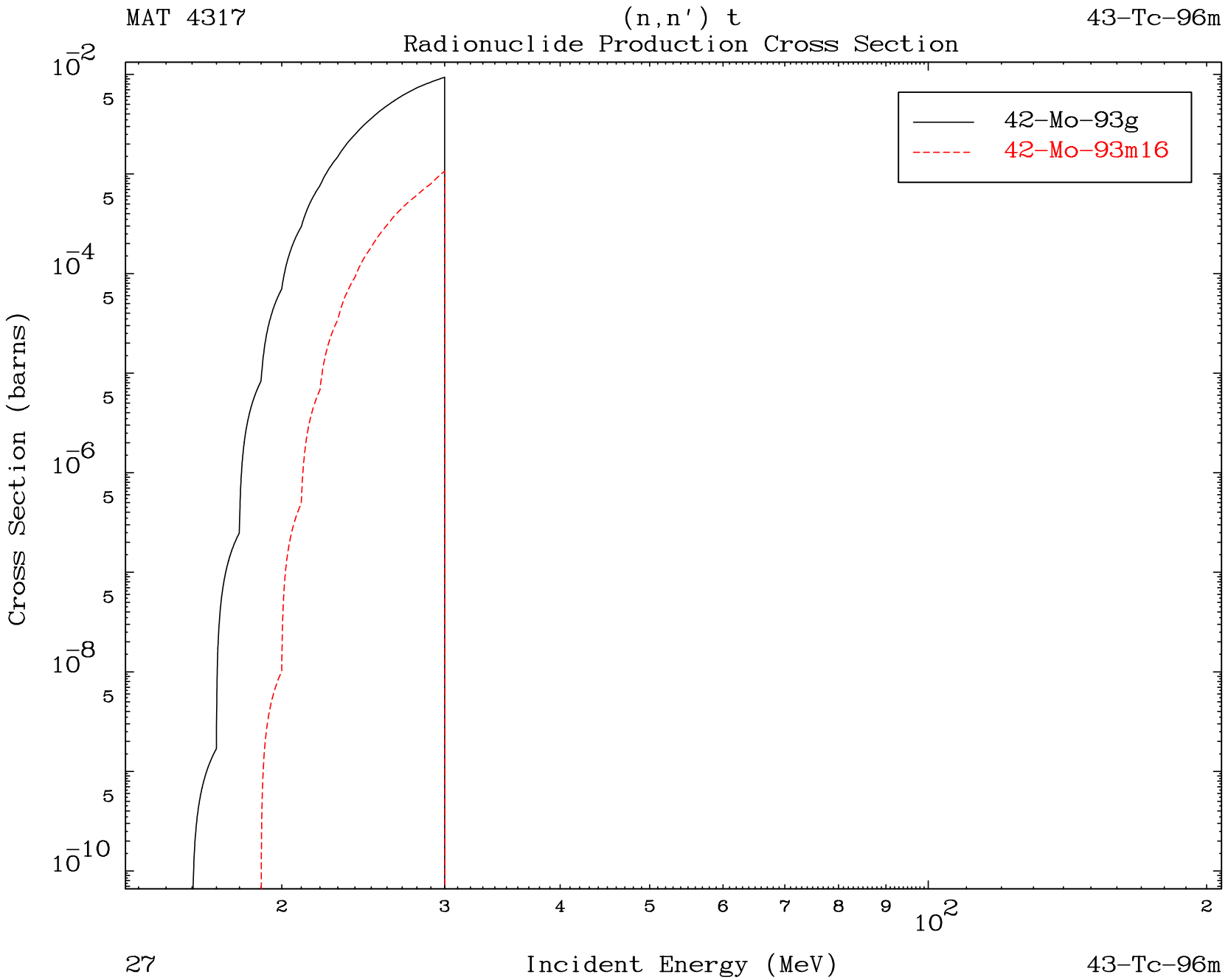

MAT 4317
(n,2n)
43-Tc-96m
Radionuclide Production Cross Section
Cross Section (barns)
10^0
5
10^-1
5
10^-2
5
10^-3
5
43-Tc-95g
43-Tc-95m1
8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
22
Incident Energy (MeV)
43-Tc-96m

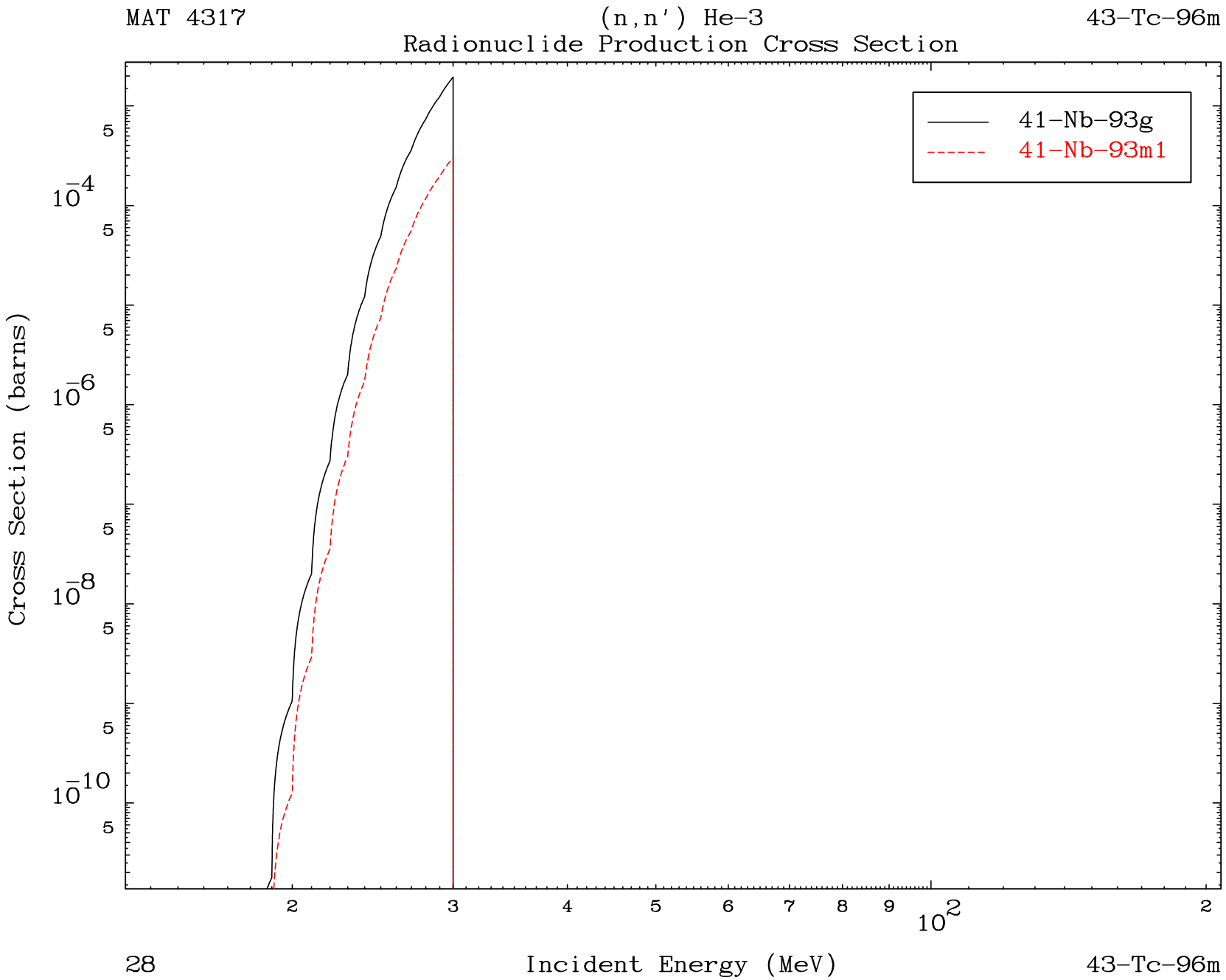

MAT 4317
(n,3n)
43-Tc-96m
Radionuclide Production Cross Section
43-Tc-94g
43-Tc-94m1
Cross Section (barns)
10-1
5
10-2
5
10-3
5
10-4
5
10-5
5
2
3
4
5
6
7
8
9
10 2
2
23
Incident Energy (MeV)
43-Tc-96m

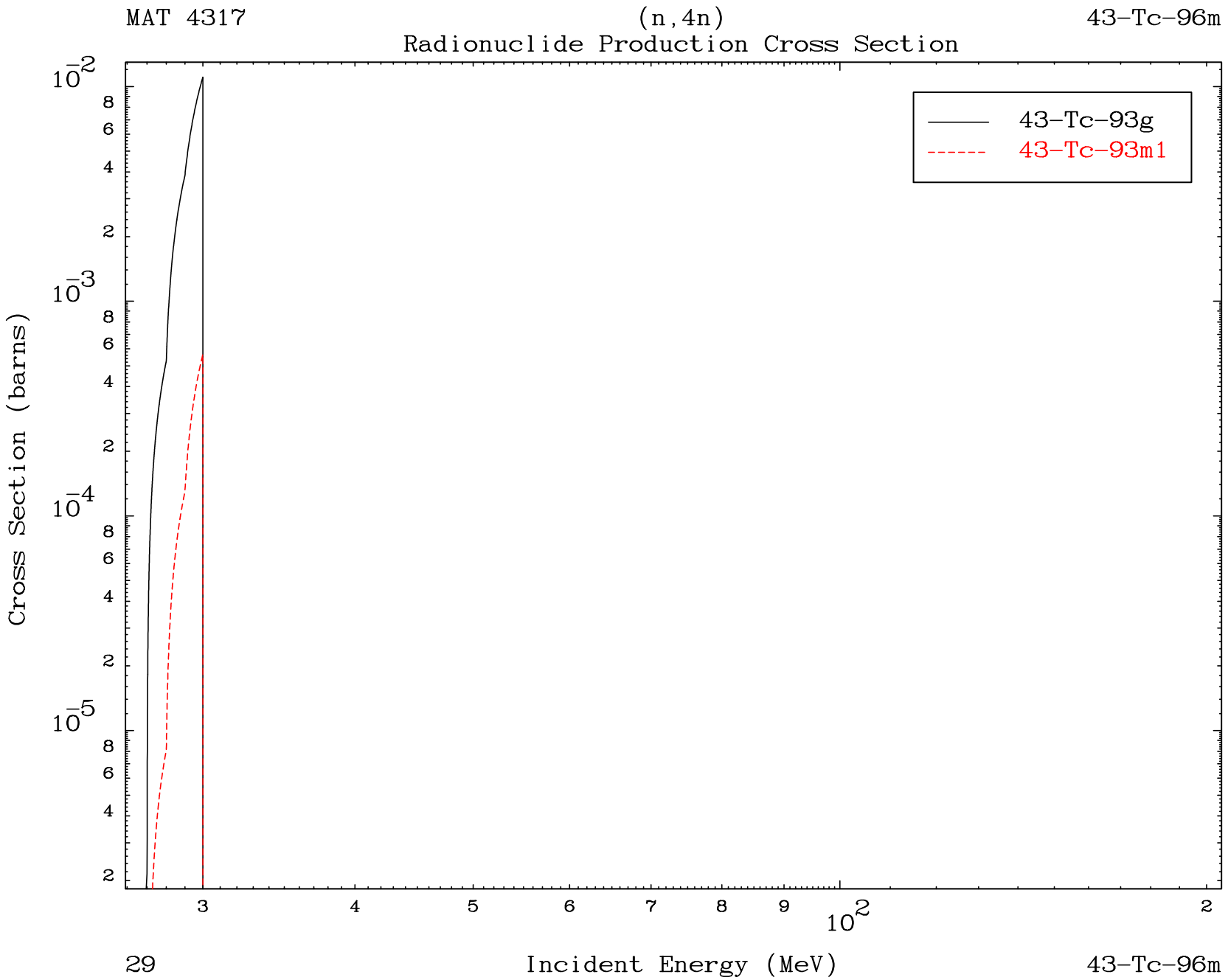

MAT 4317
(n,n') α
43-Tc-96m
Radionuclide Production Cross Section
41-Nb-92g
41-Nb-92m1
Cross Section (barns)
Incident Energy (MeV)
24
43-Tc-96m

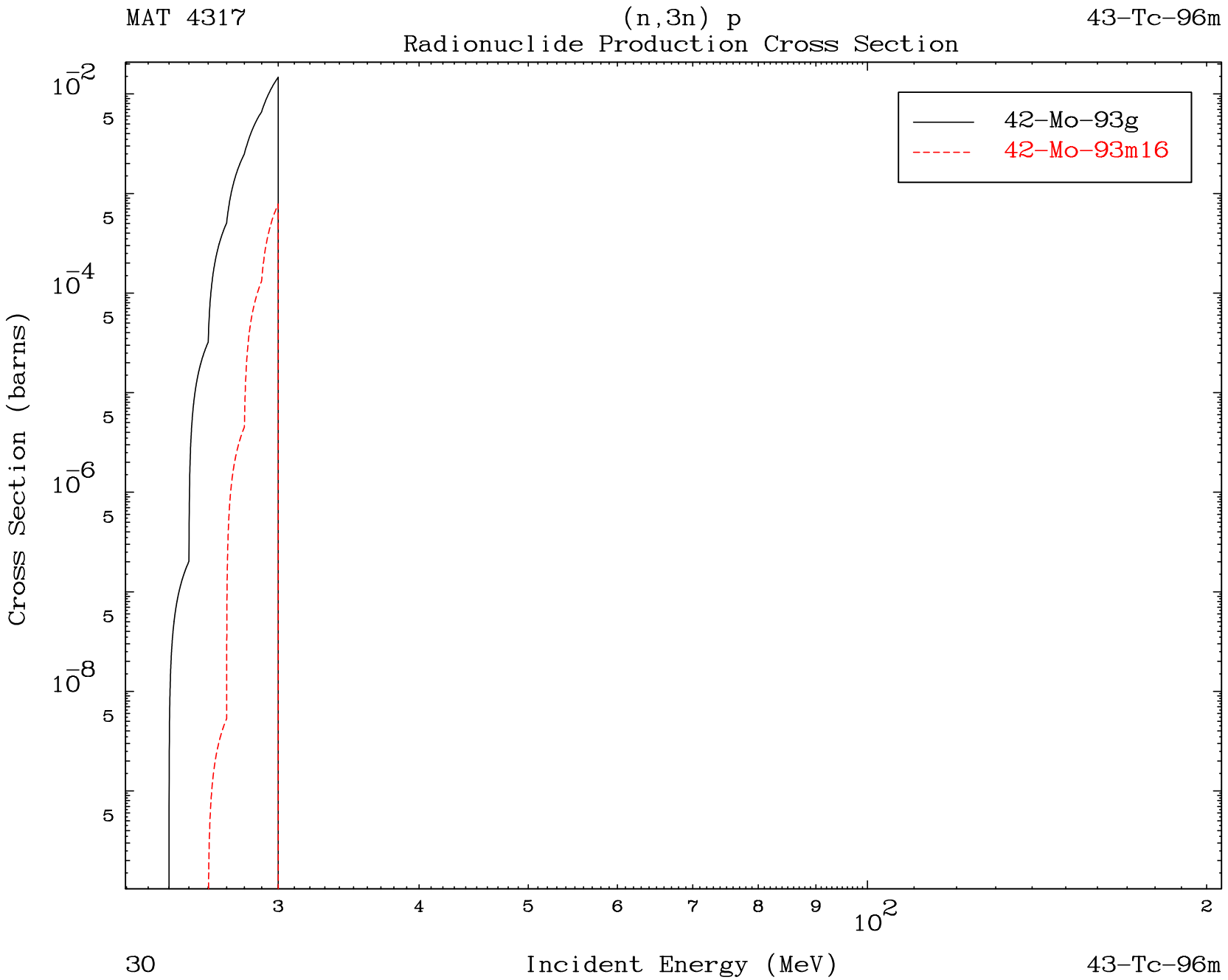

MAT 4317
(n,2n) α
43-Tc-96m
Radionuclide Production Cross Section
41-Nb-91g
41-Nb-91m1
Cross Section (barns)
Incident Energy (MeV)
25
43-Tc-96m

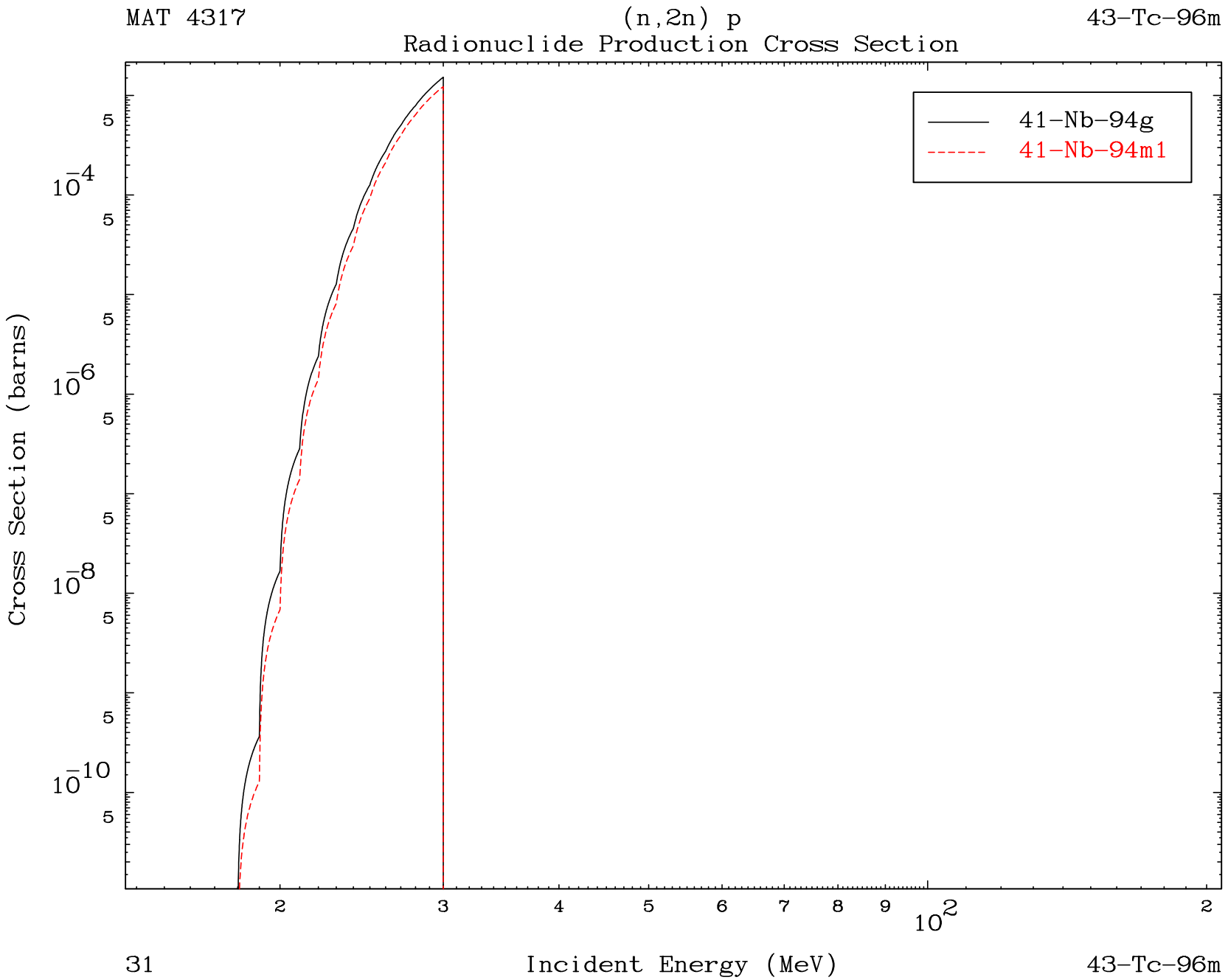

MAT 4317
(n,3n) α
43-Tc-96m
Radionuclide Production Cross Section
41-Nb-90g
41-Nb-90m2
Cross Section (barns)
10^-8
10^-10
10^-12
10^-14
5
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)
26
43-Tc-96m

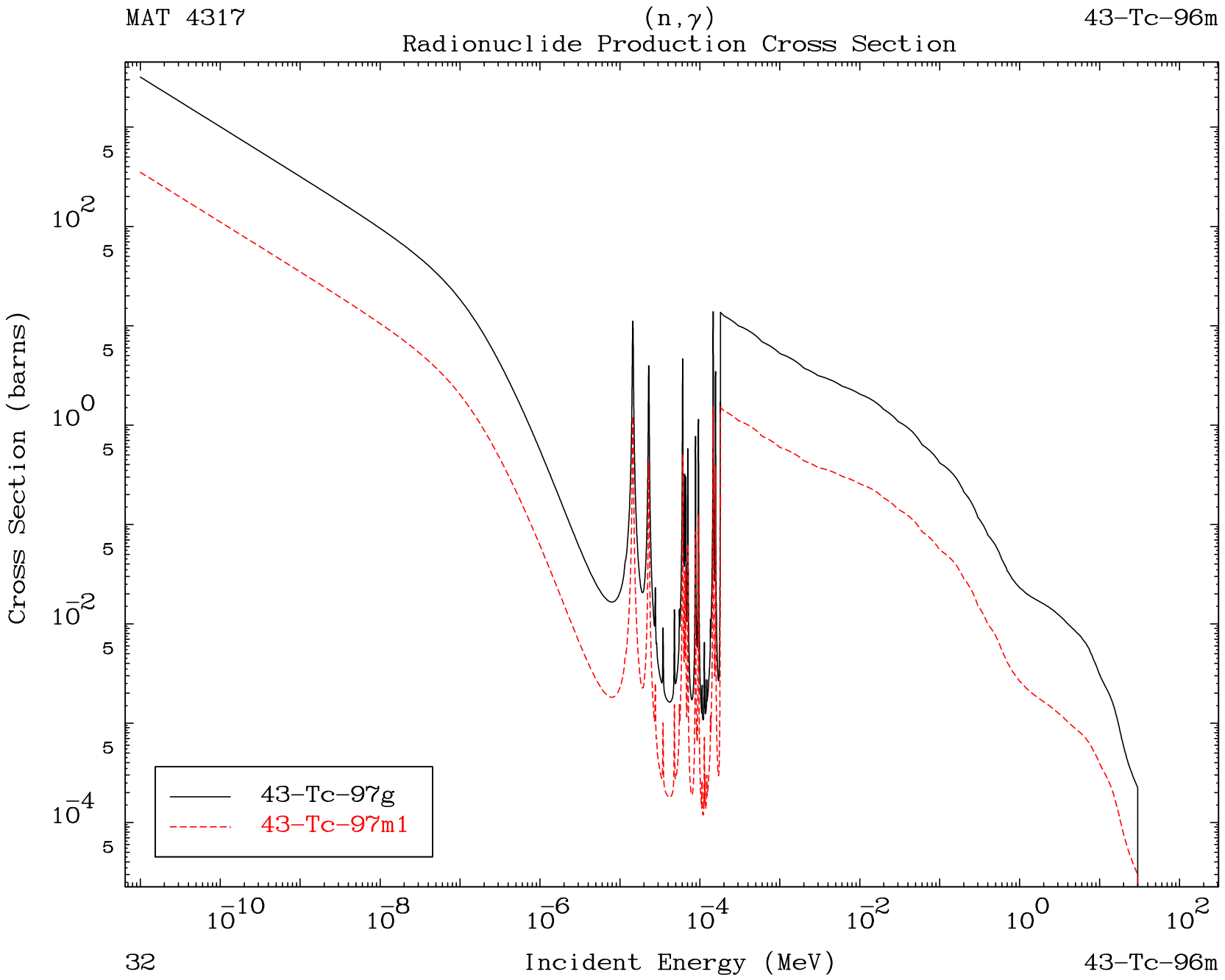

MAT 4317
(n,n') t
43-Tc-96m
Radionuclide Production Cross Section
42-Mo-93g
42-Mo-93m16
Cross Section (barns)
Incident Energy (MeV)
27
43-Tc-96m

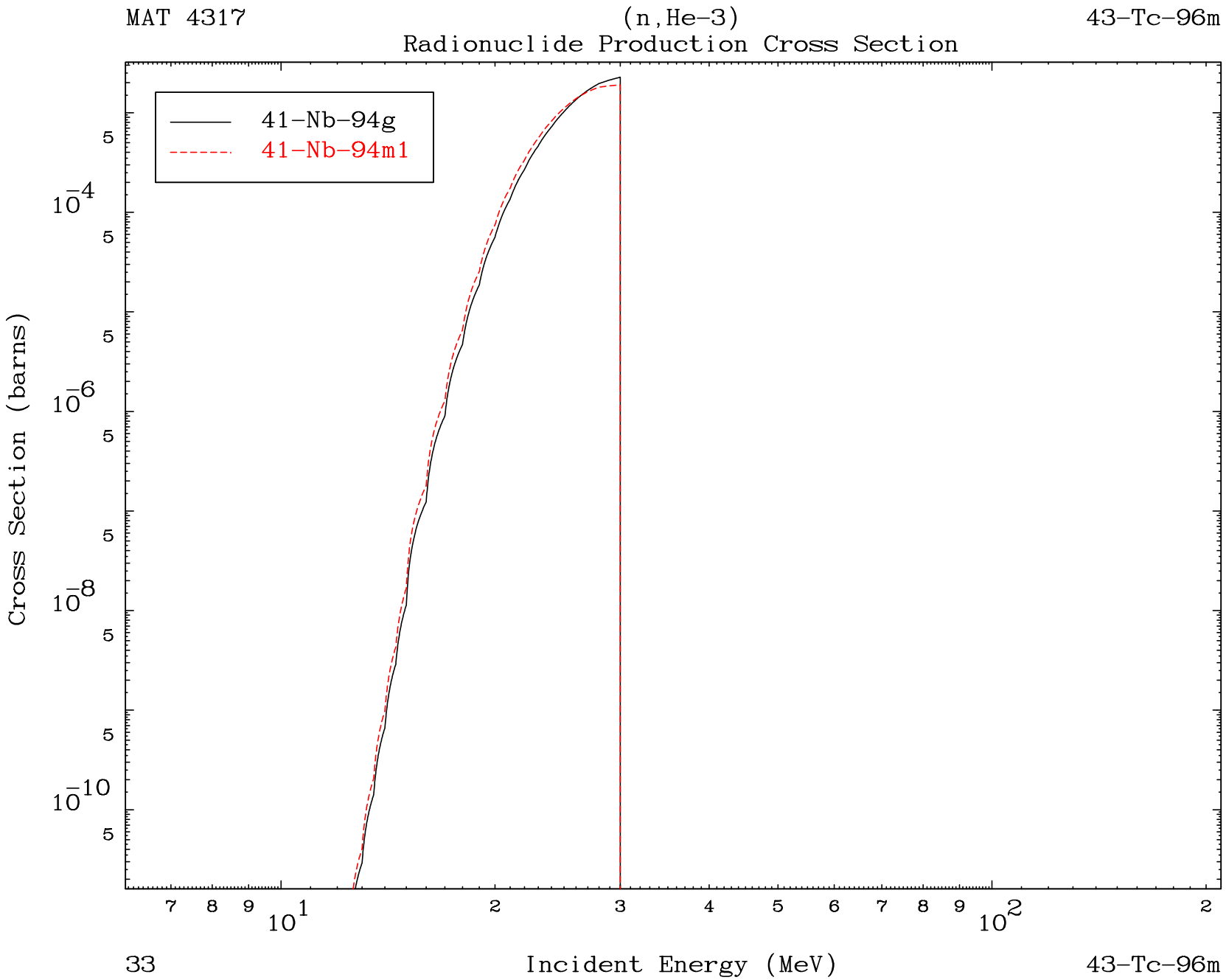

MAT 4317
(n,n') He-3
43-Tc-96m
Radionuclide Production Cross Section
41-Nb-93g
41-Nb-93m1
Cross Section (barns)
10-4
10-6
10-8
10-10
2
3
4
5
6
7
8
9
10 2
2
28
Incident Energy (MeV)
43-Tc-96m

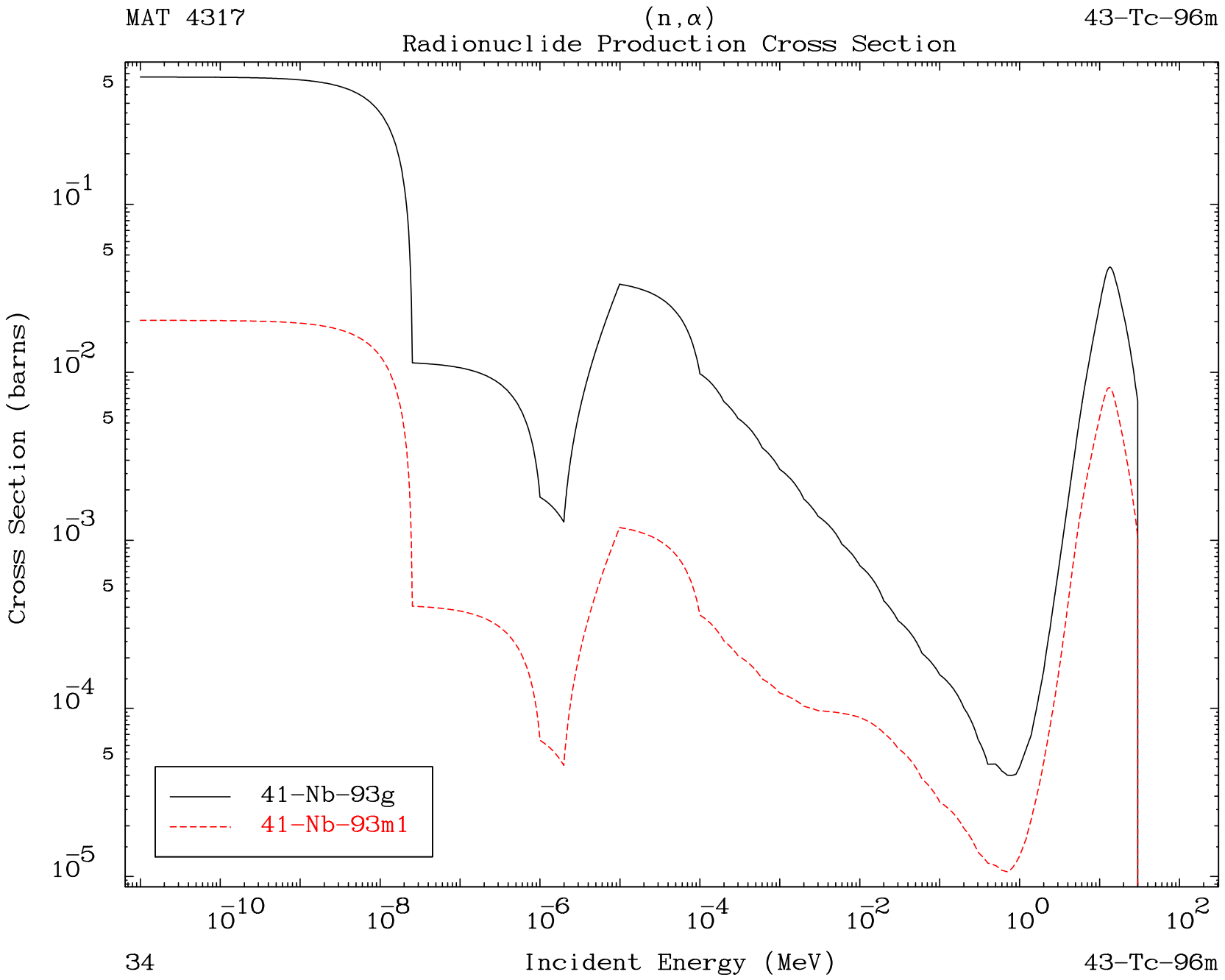

MAT 4317
(n,4n)
43-Tc-96m
Radionuclide Production Cross Section
43-Tc-93g
43-Tc-93m1
Cross Section (barns)
Incident Energy (MeV)
29
43-Tc-96m

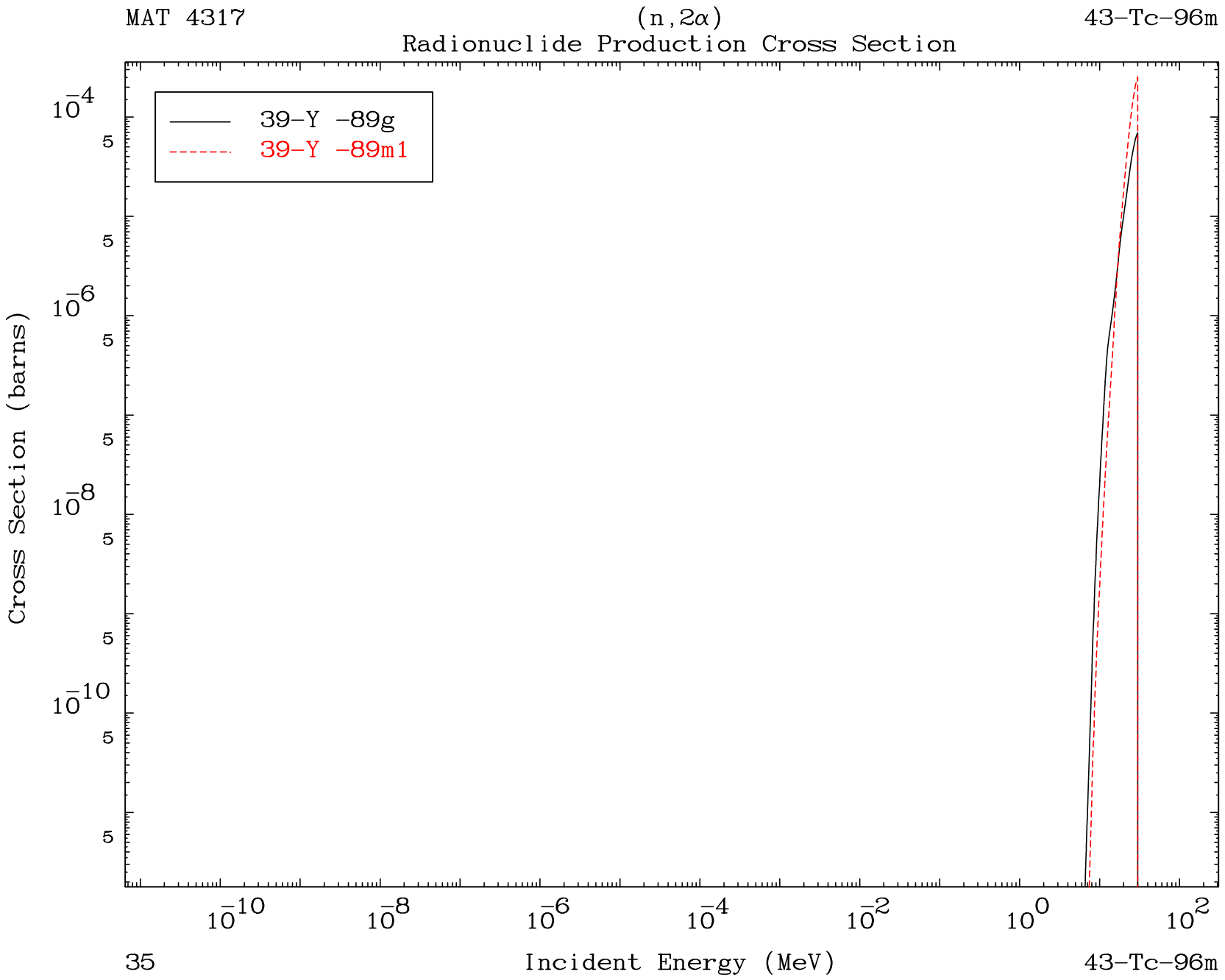

MAT 4317
(n,3n) p
43-Tc-96m
Radionuclide Production Cross Section
42-Mo-93g
42-Mo-93m16
Cross Section (barns)
Incident Energy (MeV)
30
43-Tc-96m

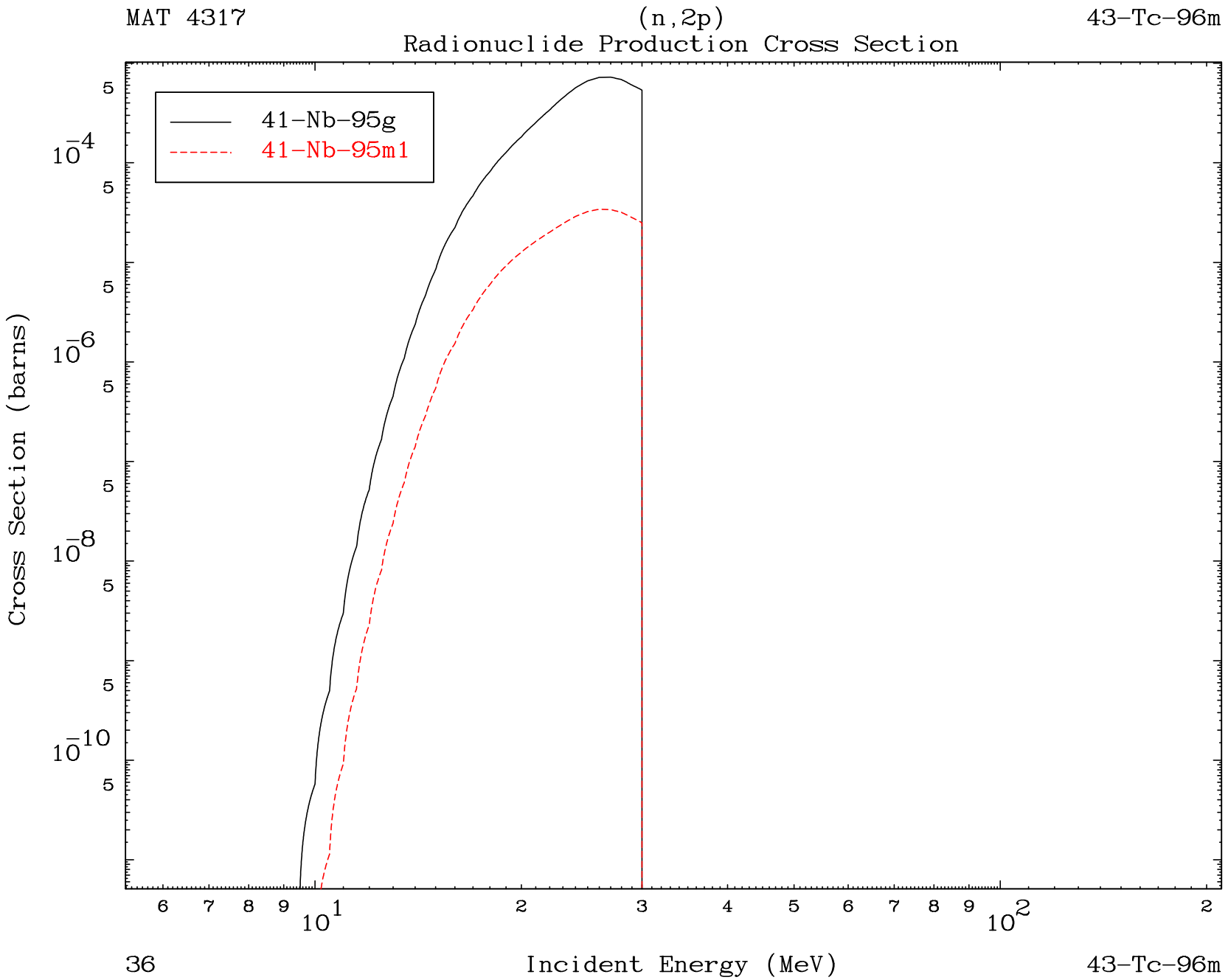

MAT 4317
(n,2n) p
43-Tc-96m
Radionuclide Production Cross Section
41-Nb-94g
41-Nb-94m1
Cross Section (barns)
10-4
10-6
10-8
10-10
2
3
4
5
6
7
8
9
10 2
2
31
Incident Energy (MeV)
43-Tc-96m

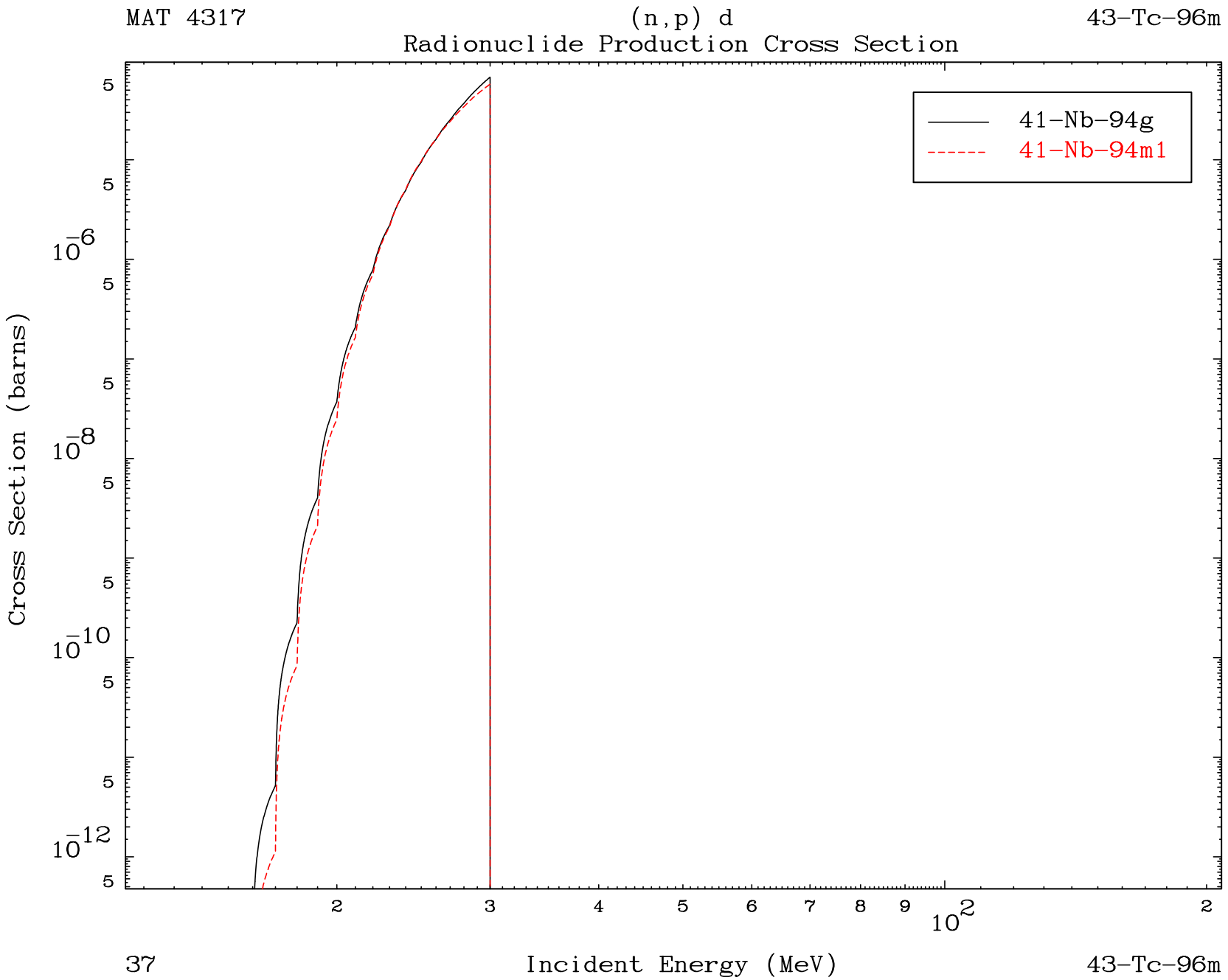

MAT 4317
(n,γ)
43-Tc-96m
Radionuclide Production Cross Section
Cross Section (barns)
10^2
10^0
10^-2
10^-4
5
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
Incident Energy (MeV)
43-Tc-97g
43-Tc-97m1
32
43-Tc-96m

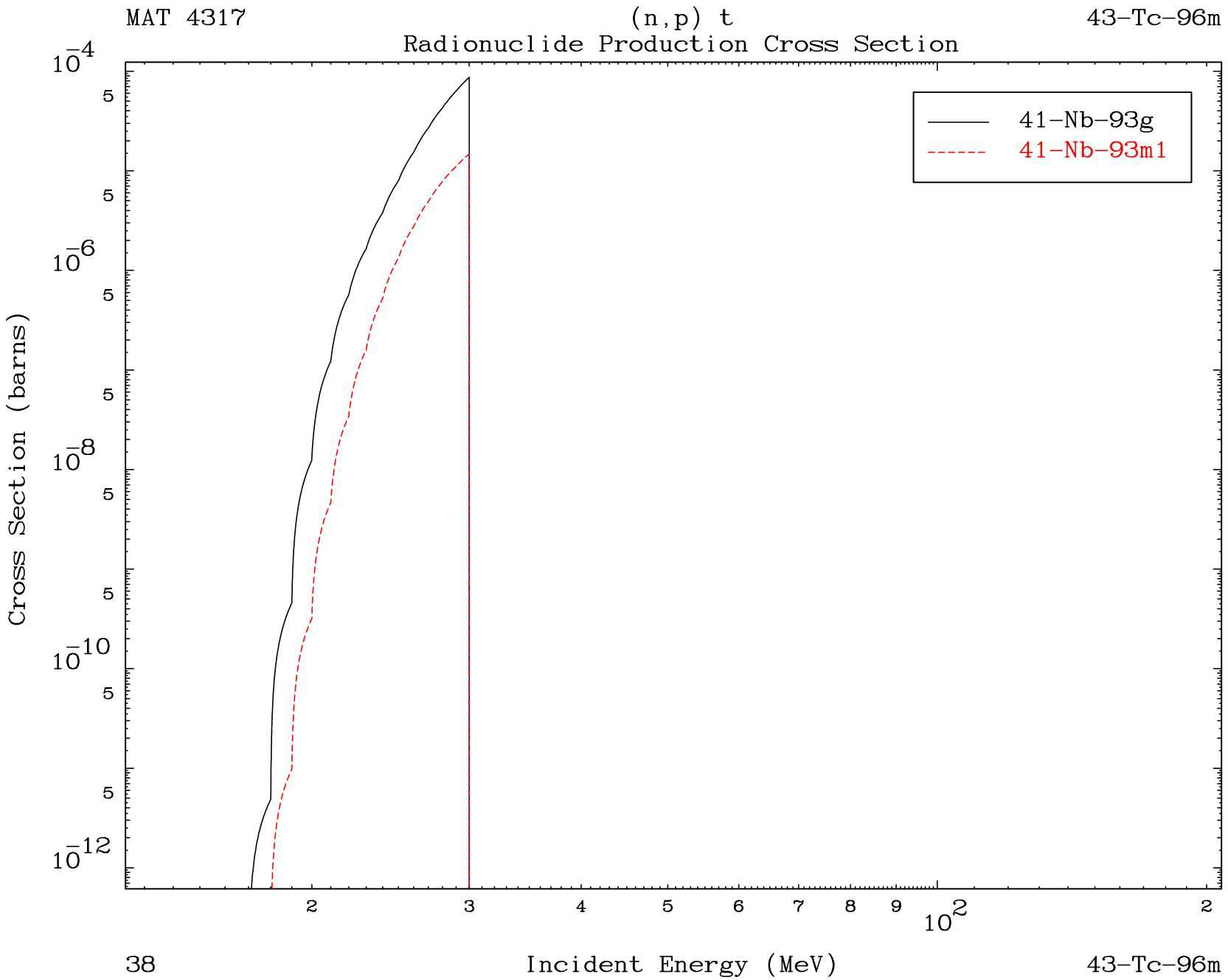

MAT 4317
(n,He-3)
43-Tc-96m
Radionuclide Production Cross Section
41-Nb-94g
41-Nb-94m1
Cross Section (barns)
10-4
10-6
10-8
10-10
5
7 8 9 10 1 2 3 4 5 6 7 8 9 10 2 2
Incident Energy (MeV)
33
43-Tc-96m


MAT 4317
(n,α)
43-Tc-96m
Radionuclide Production Cross Section
Cross Section (barns)
5
10-1
5
10-2
5
10-3
5
10-4
5
10-5
41-Nb-93g
41-Nb-93m1
10-10
10-8
10-6
10-4
10-2
100
102
34
Incident Energy (MeV)
43-Tc-96m


MAT 4317
(n,2α)
43-Tc-96m
Radionuclide Production Cross Section
39-Y -89g
39-Y -89m1
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
35
Incident Energy (MeV)
43-Tc-96m


MAT 4317
(n,2p)
43-Tc-96m
Radionuclide Production Cross Section
41-Nb-95g
41-Nb-95m1
Cross Section (barns)
Incident Energy (MeV)
36
43-Tc-96m


MAT 4317
(n,p) d
43-Tc-96m
Radionuclide Production Cross Section
41-Nb-94g
41-Nb-94m1
Cross Section (barns)
Incident Energy (MeV)
37
43-Tc-96m


MAT 4317
(n,p) t
43-Tc-96m
Radionuclide Production Cross Section
41-Nb-93g
41-Nb-93m1
Cross Section (barns)
Incident Energy (MeV)
38
43-Tc-96m