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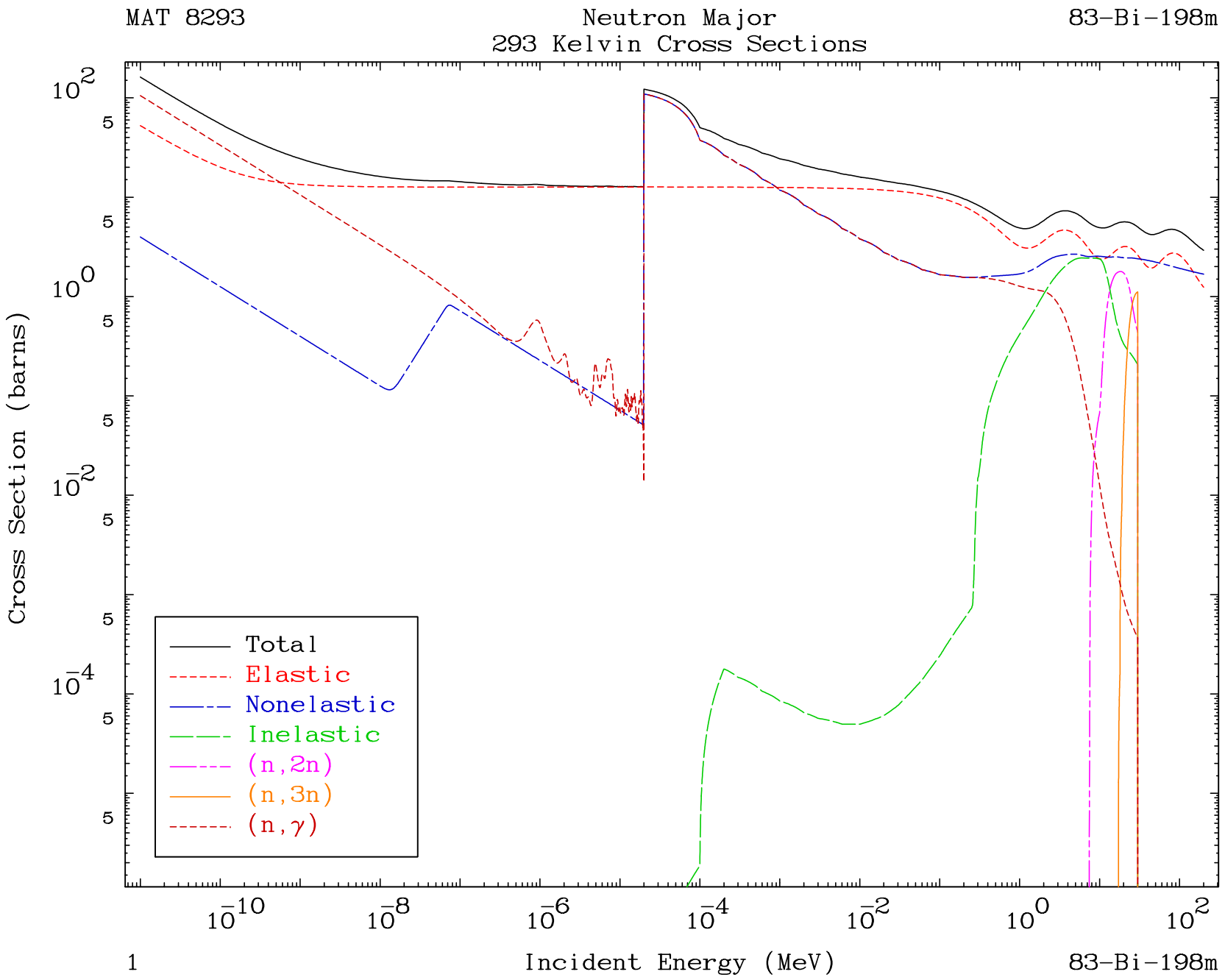
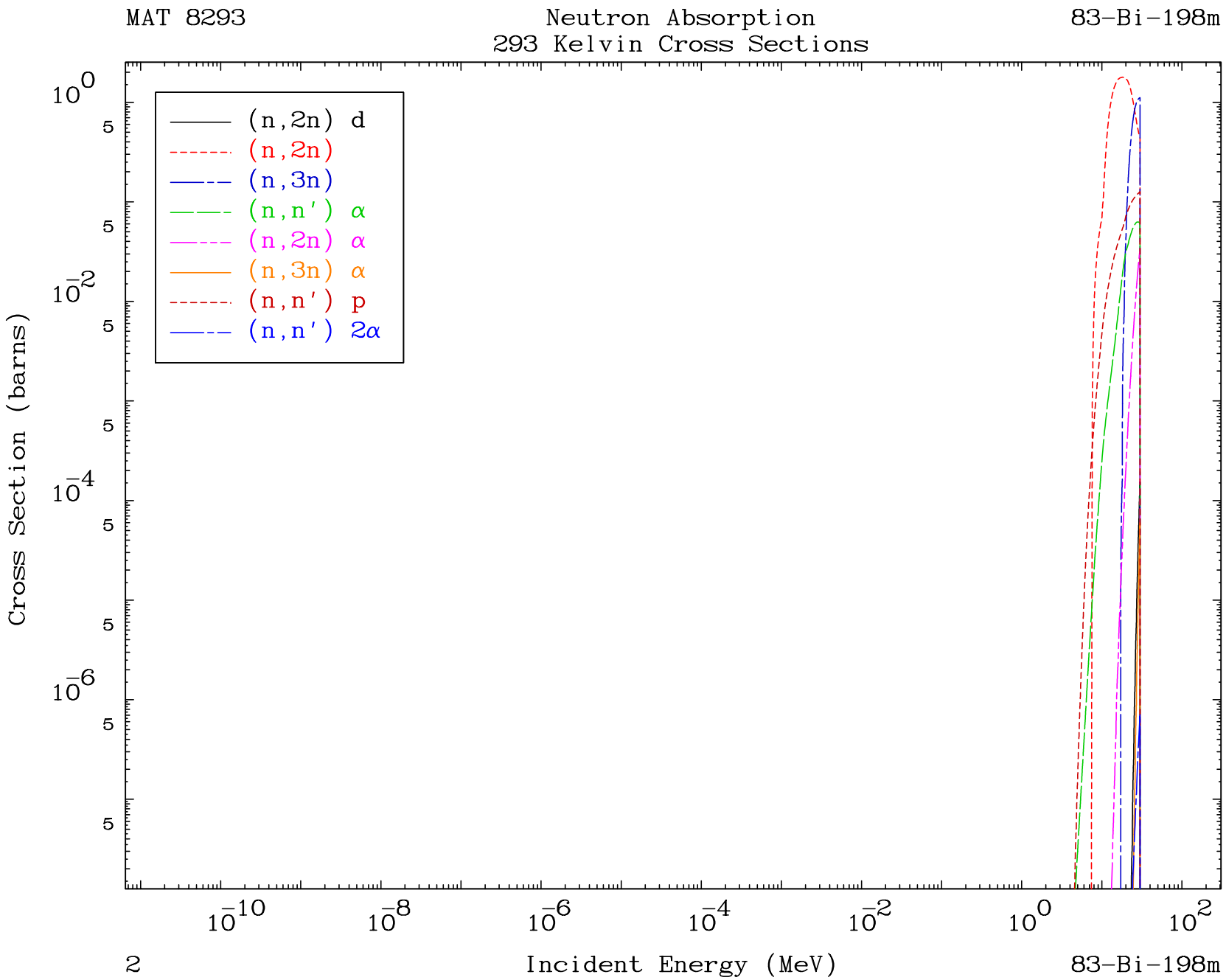
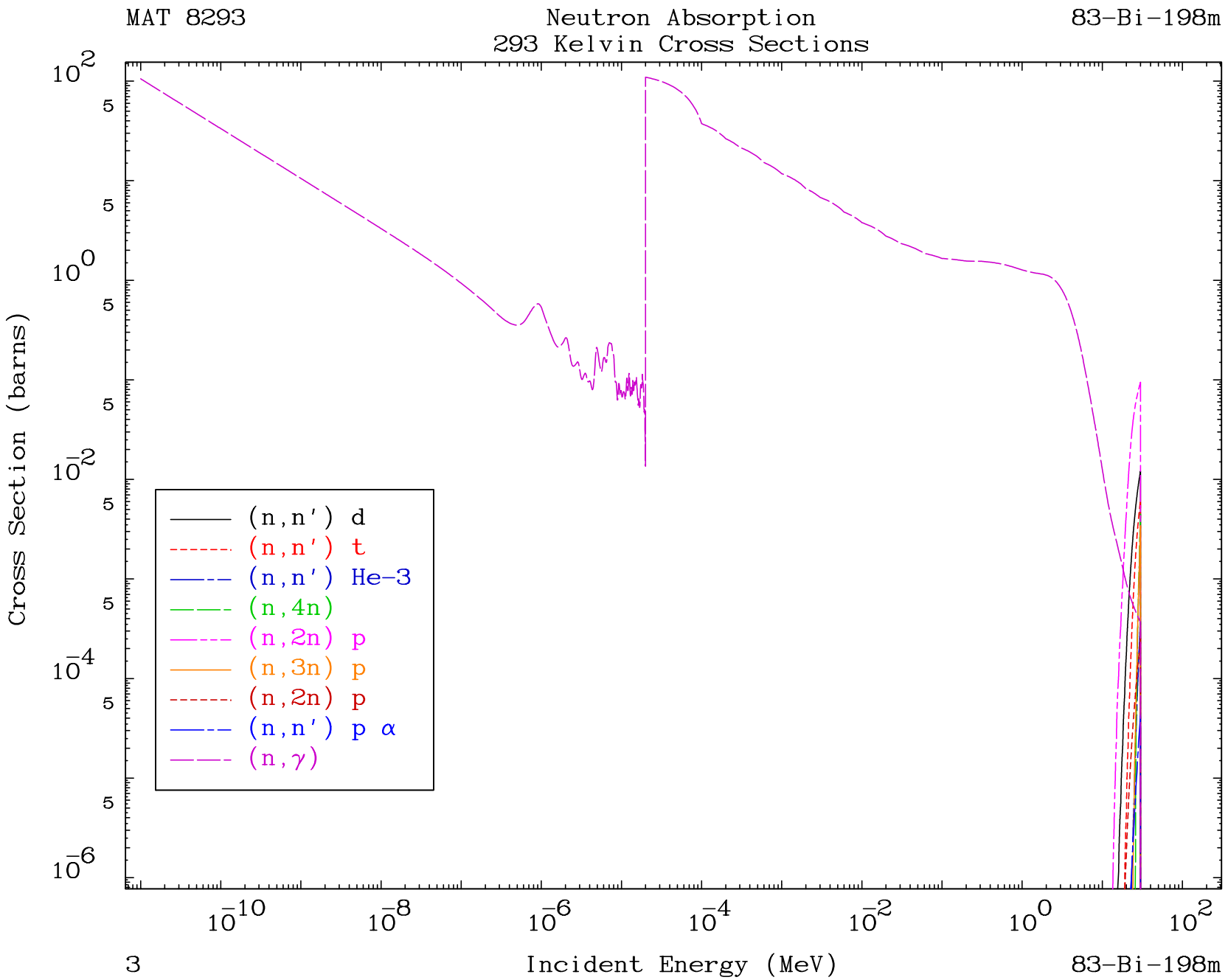
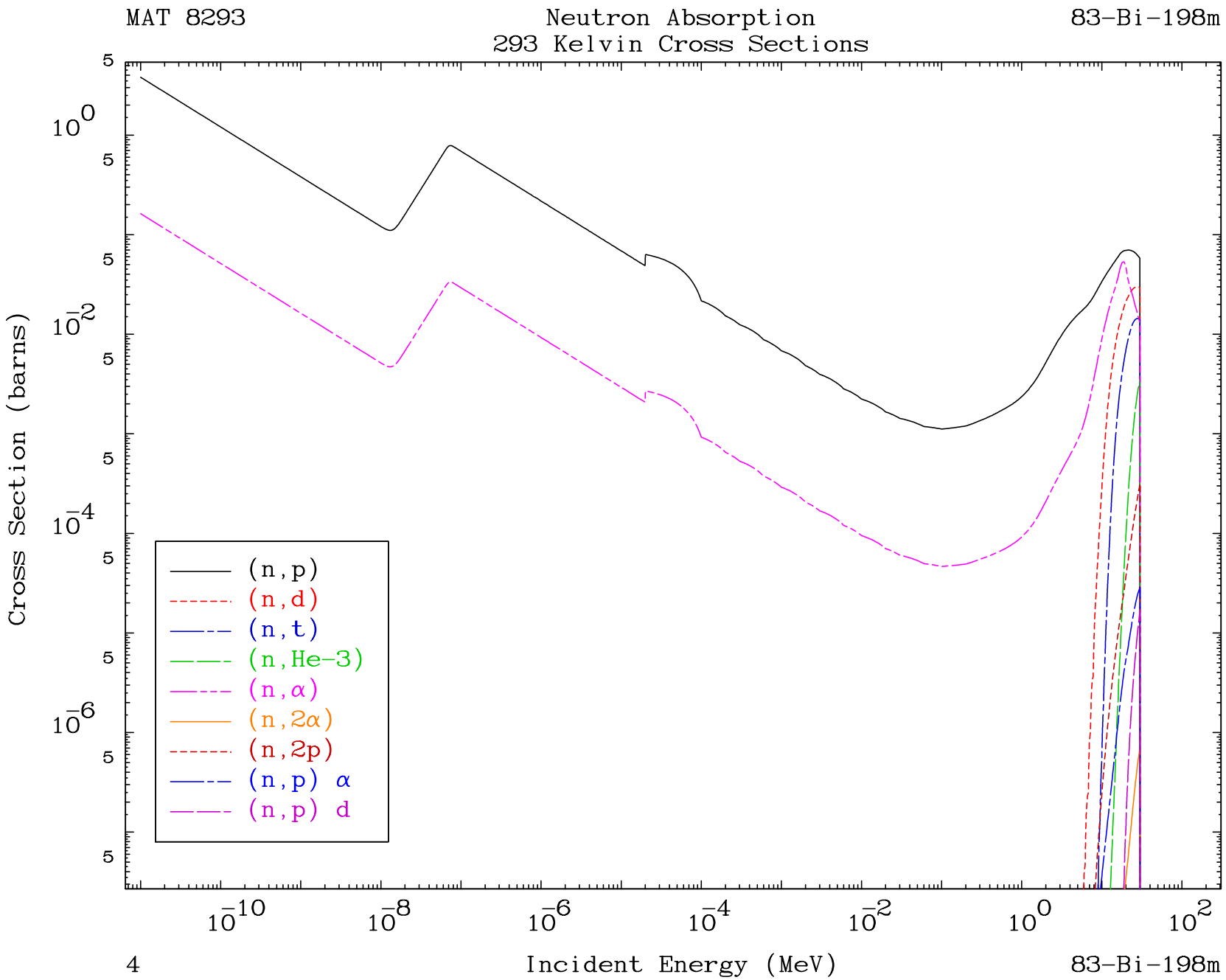
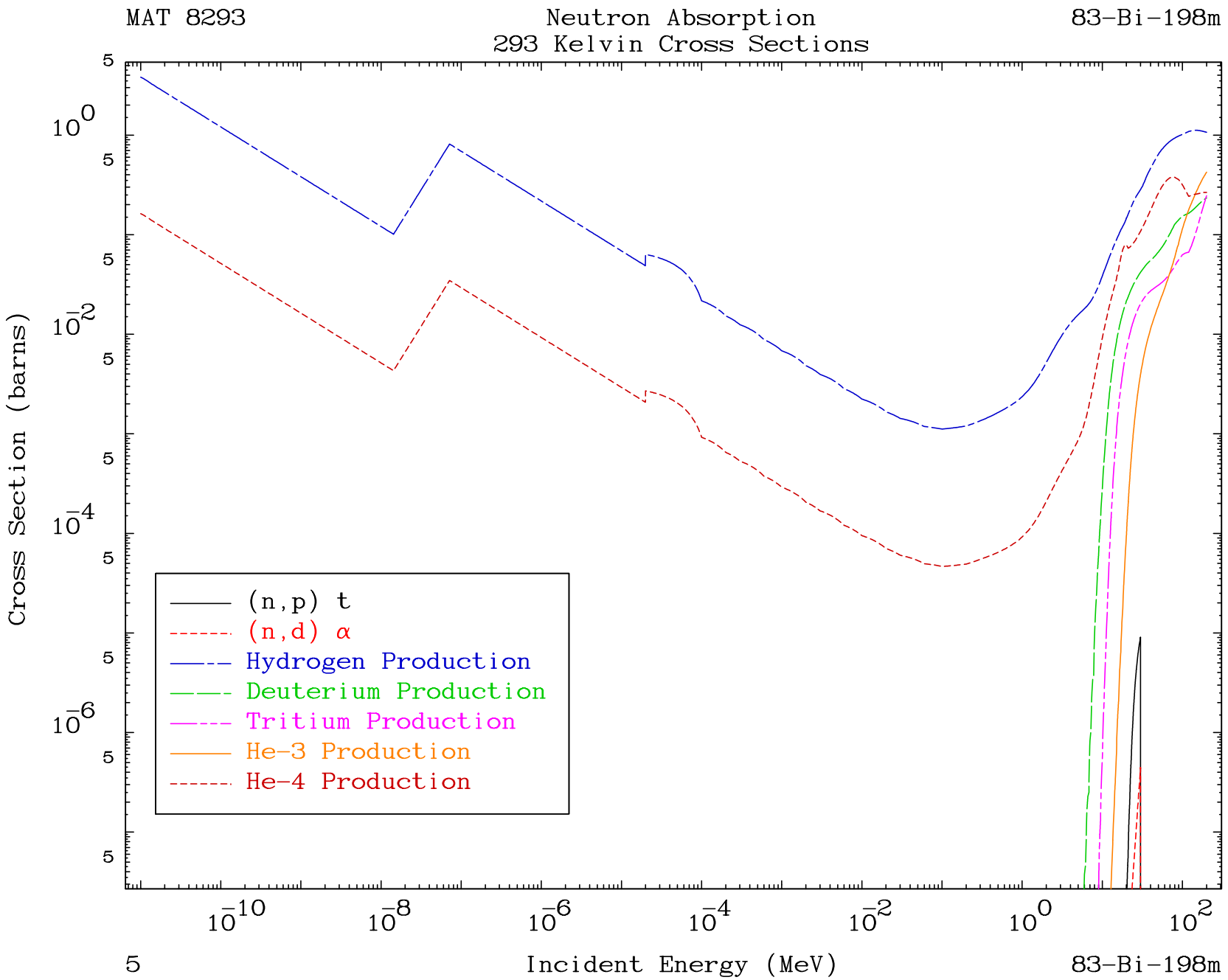
Press Mouse Button to Start

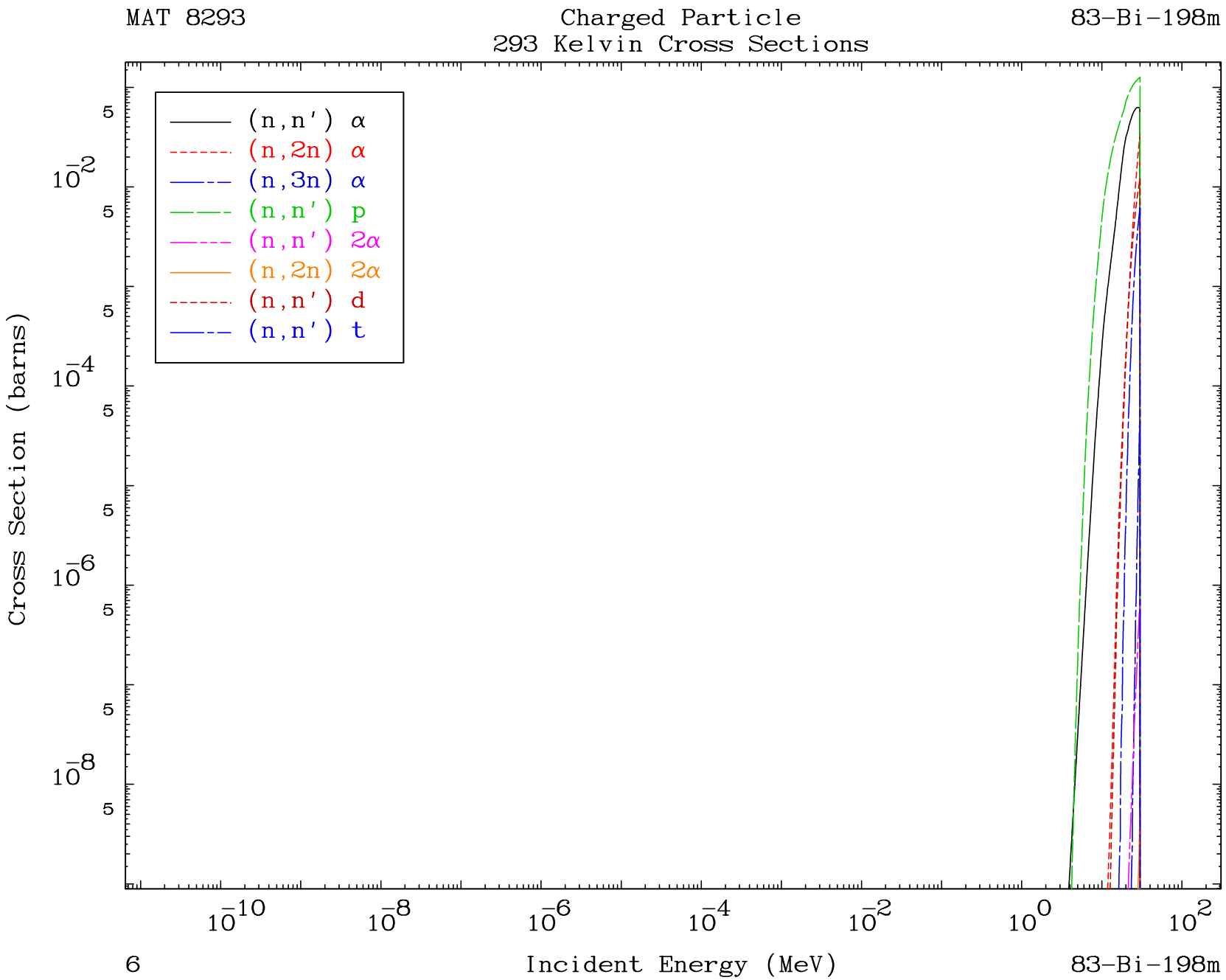

MAT 8293
Neutron Major
293 Kelvin Cross Sections
83-Bi-198m
Cross Section (barns)
Incident Energy (MeV)
Total
Elastic
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)
1
83-Bi-198m

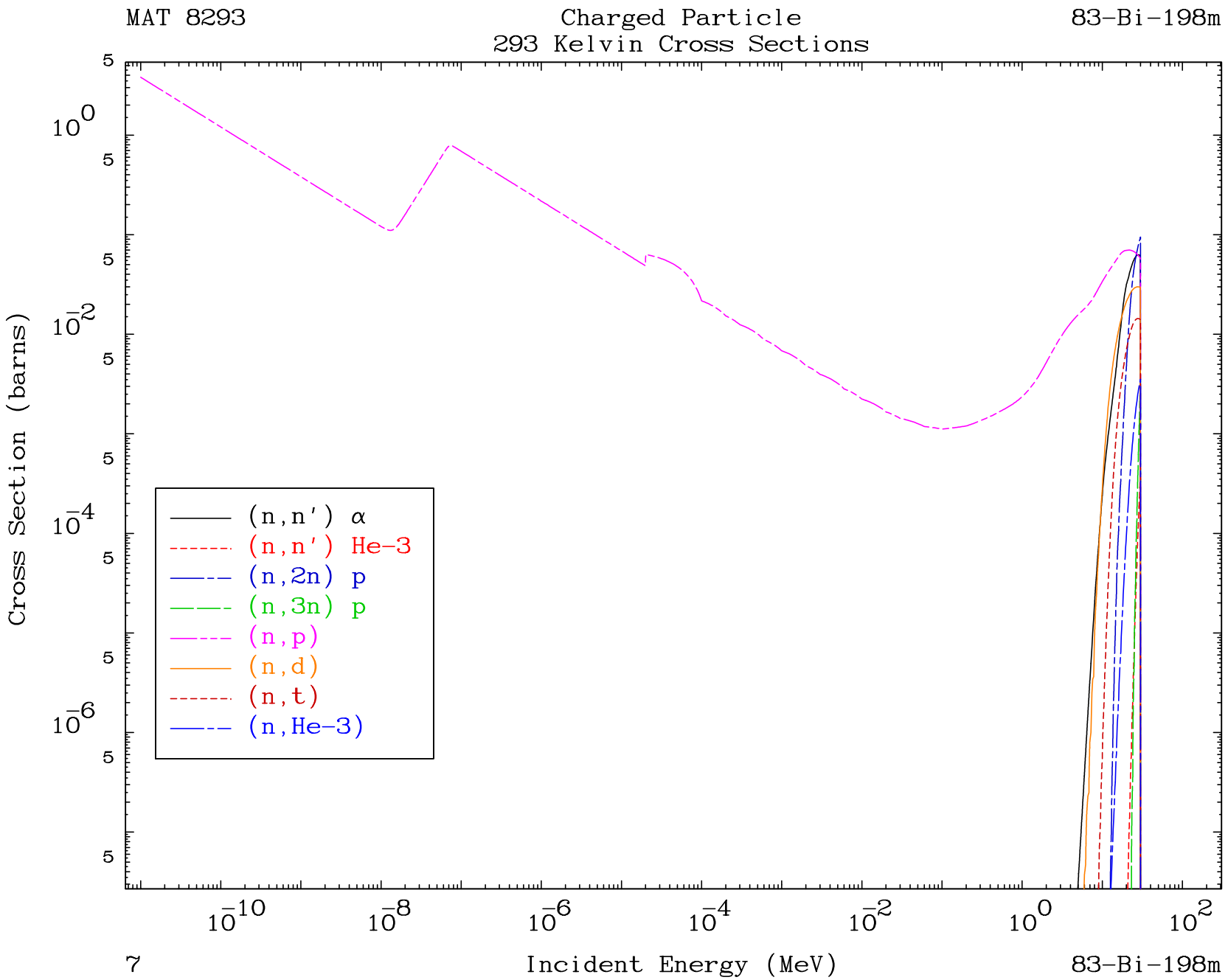

MAT 8293
Neutron Absorption
293 Kelvin Cross Sections
83-Bi-198m
(n,2n) d
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
Cross Section (barns)
Incident Energy (MeV)
2
83-Bi-198m

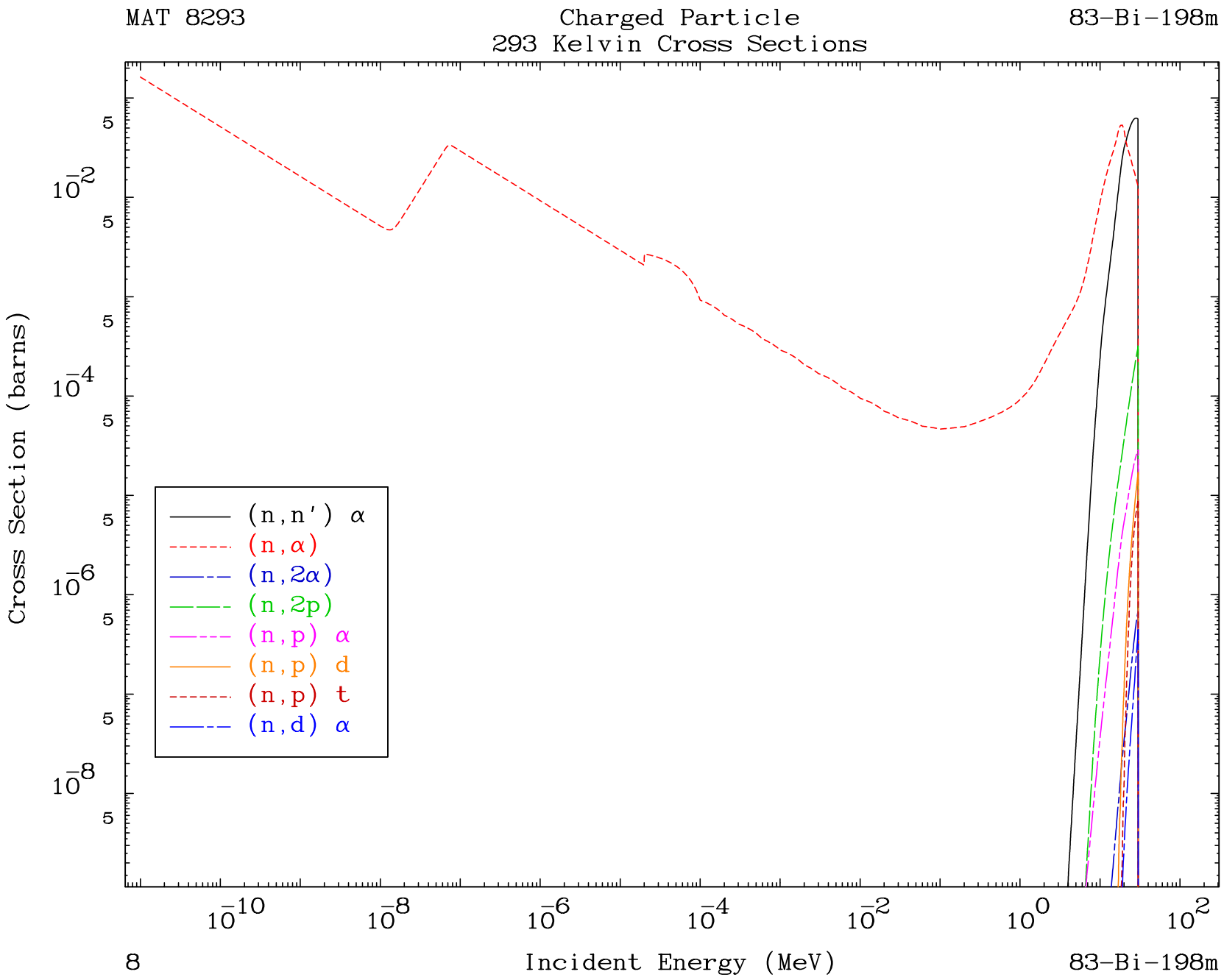

MAT 8293
Neutron Absorption
293 Kelvin Cross Sections
83-Bi-198m
Cross Section (barns)
Incident Energy (MeV)
(n,n') d
(n,n') t
(n,n') He-3
(n,4n)
(n,2n) p
(n,3n) p
(n,2n) p
(n,n') p α
(n,γ)
3
83-Bi-198m

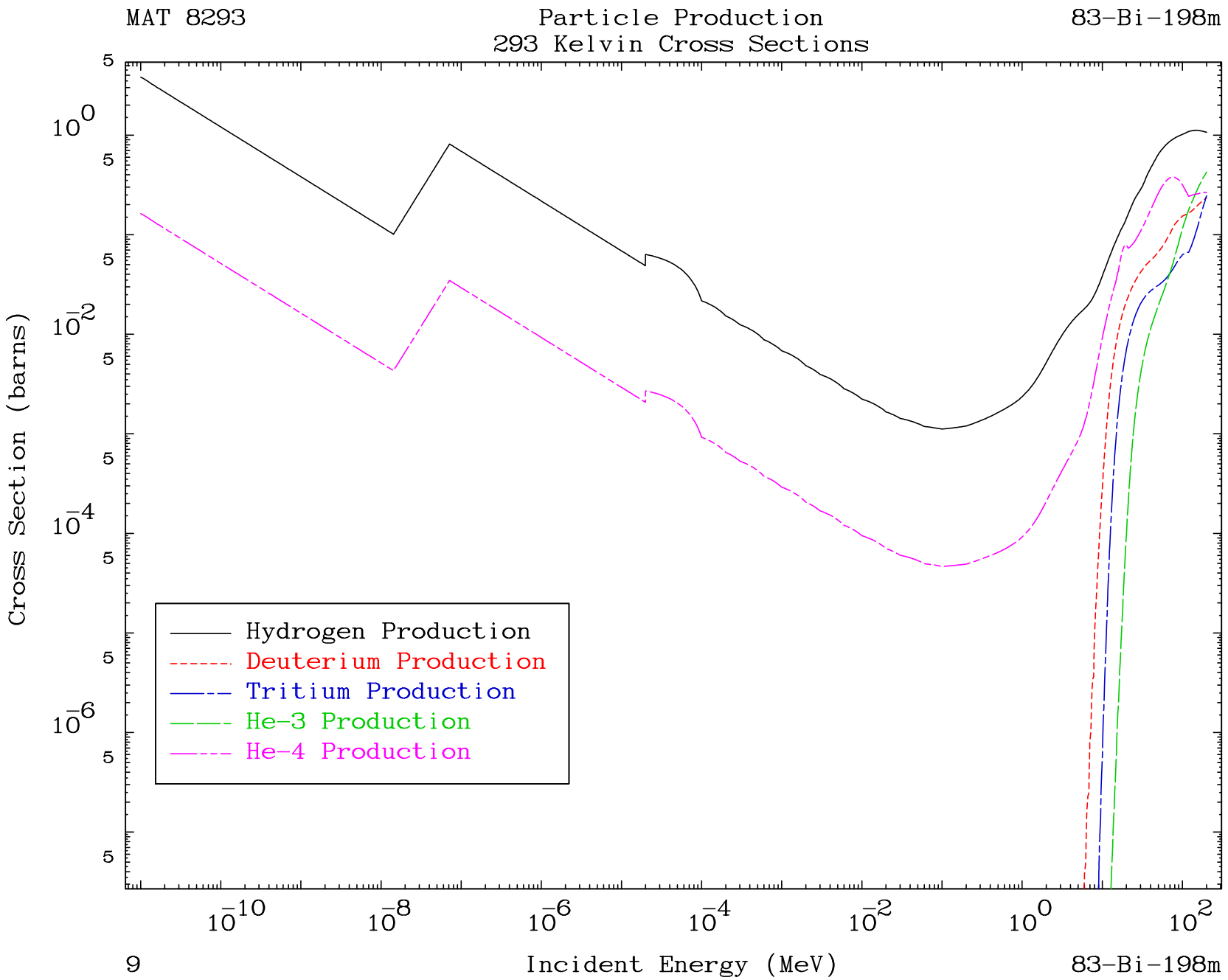

MAT 8293
Neutron Absorption
293 Kelvin Cross Sections
83-Bi-198m
Cross Section (barns)
Incident Energy (MeV)
(n,p)
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
4
83-Bi-198m

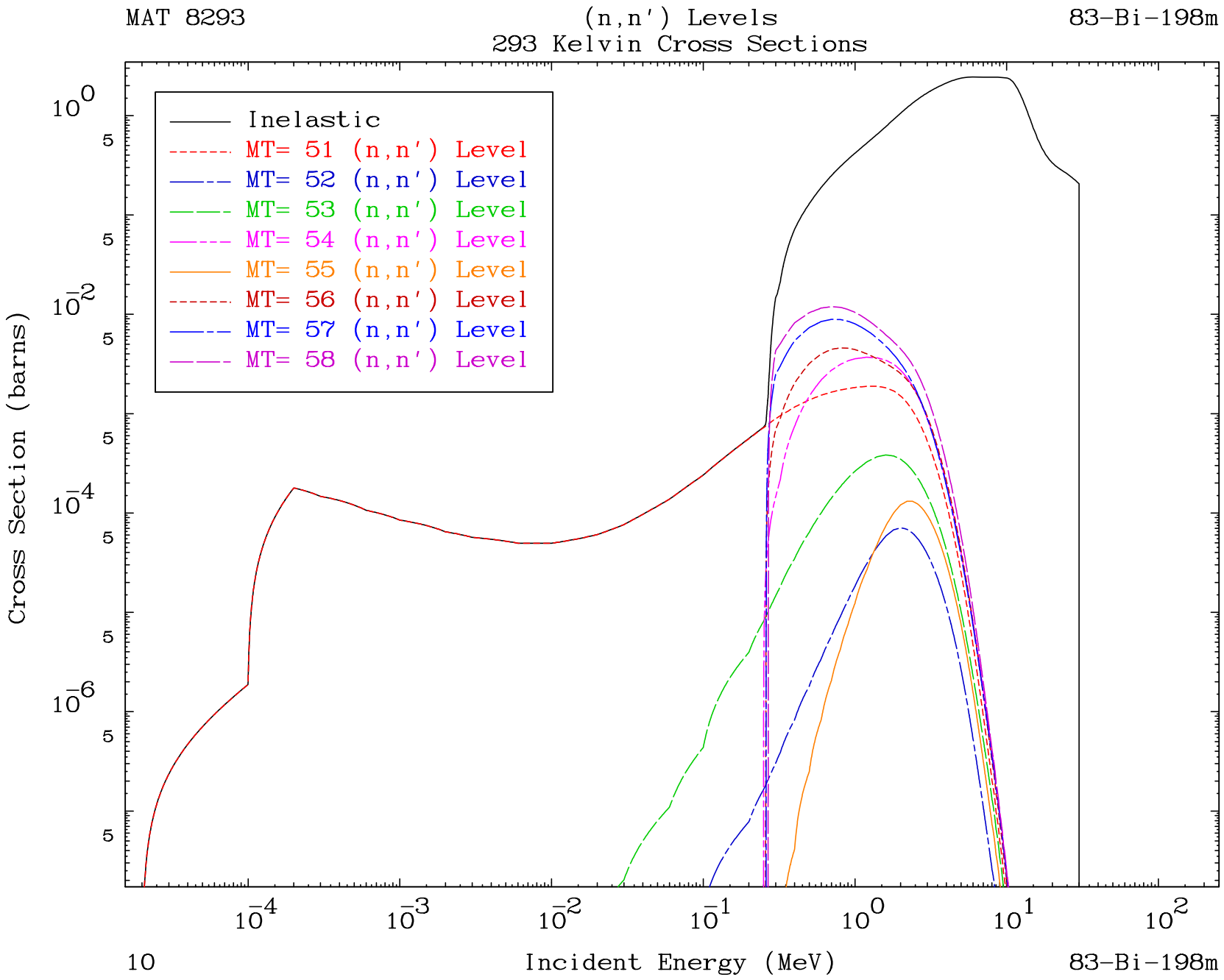

MAT 8293
Neutron Absorption
293 Kelvin Cross Sections
83-Bi-198m
Cross Section (barns)
Incident Energy (MeV)
(n,p) t
(n,d) α
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production

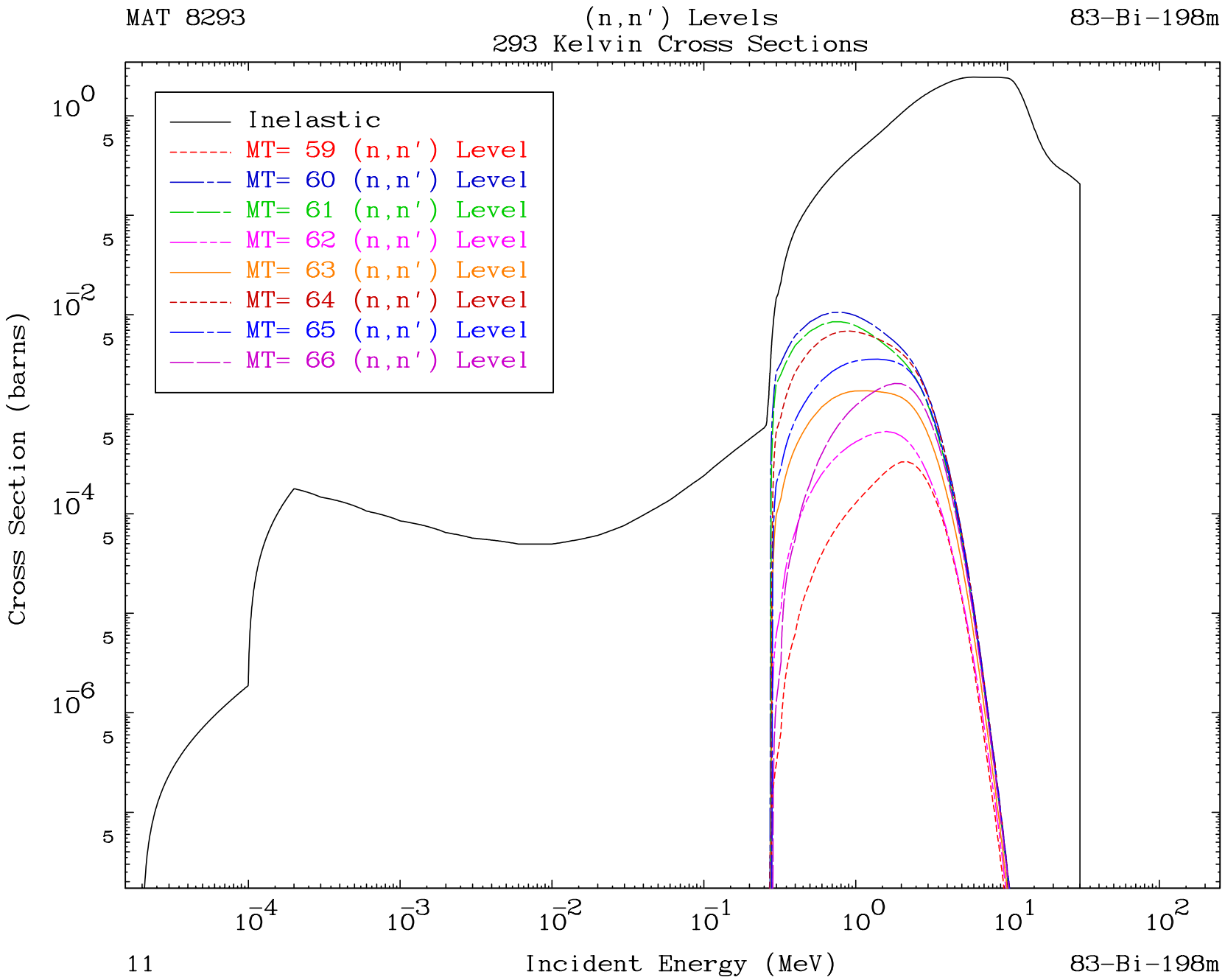

MAT 8293
Charged Particle
293 Kelvin Cross Sections
83-Bi-198m
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,2n) 2α
(n,n') d
(n,n') t
Cross Section (barns)
10^-2
10^-4
10^-6
10^-8
10^-10
10^0
10^2
Incident Energy (MeV)
6
83-Bi-198m

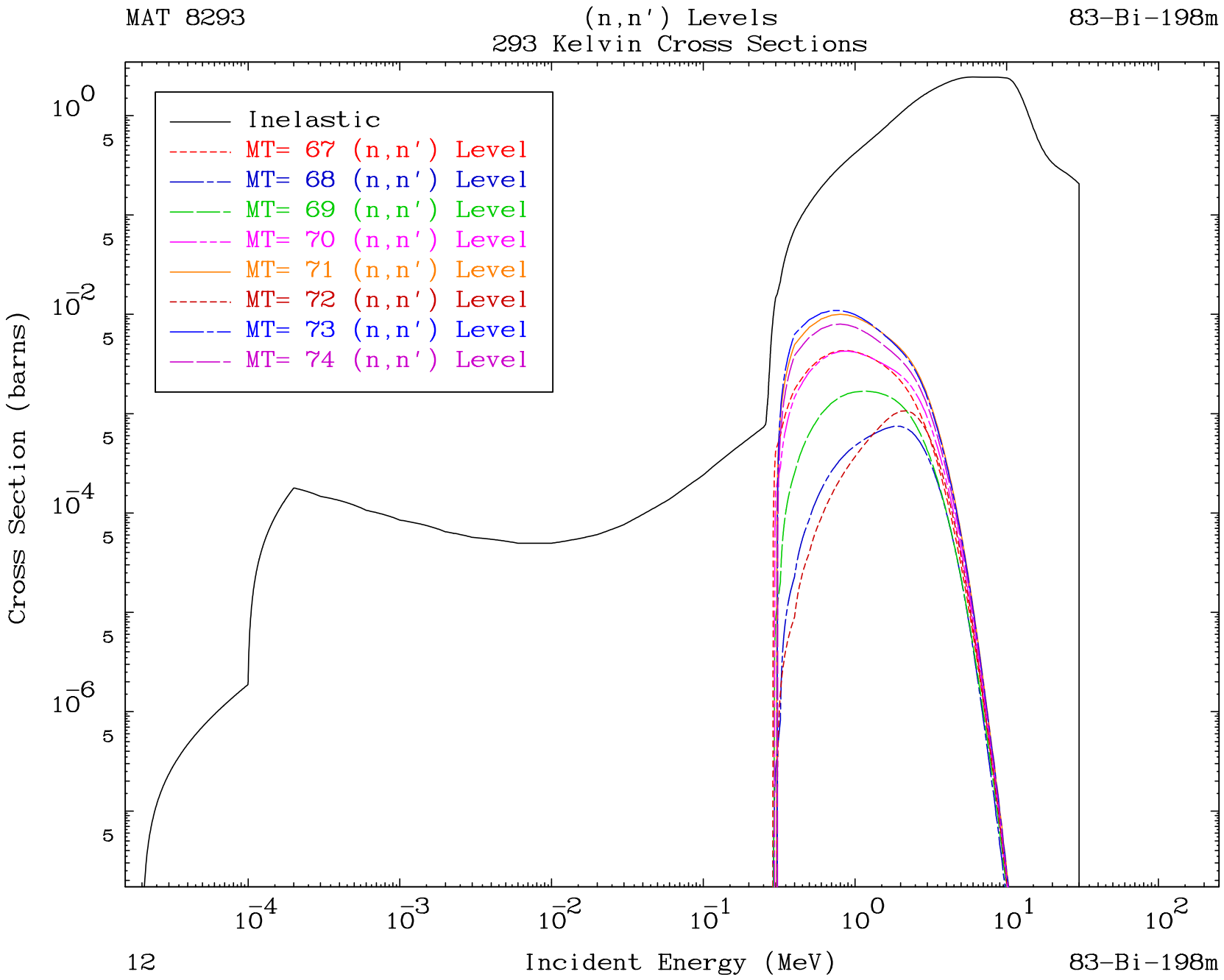

MAT 8293
Charged Particle
293 Kelvin Cross Sections
83-Bi-198m
Cross Section (barns)
Incident Energy (MeV)
(n,n') α
(n,n') He-3
(n,2n) p
(n,3n) p
(n,p)
(n,d)
(n,t)
(n,He-3)
7
83-Bi-198m

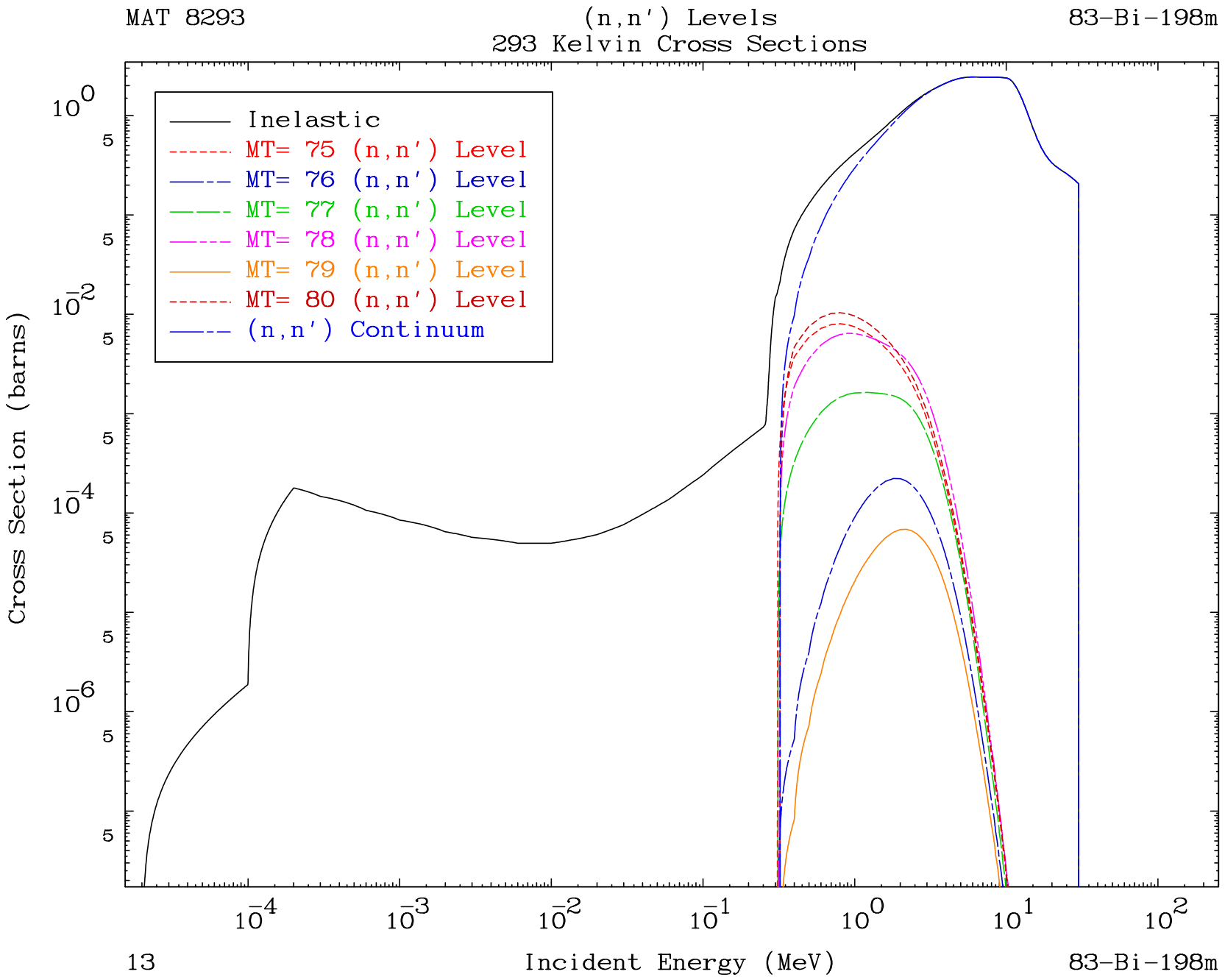

MAT 8293
Charged Particle
293 Kelvin Cross Sections
83-Bi-198m
Cross Section (barns)
Incident Energy (MeV)
(n,n') α
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
8
83-Bi-198m

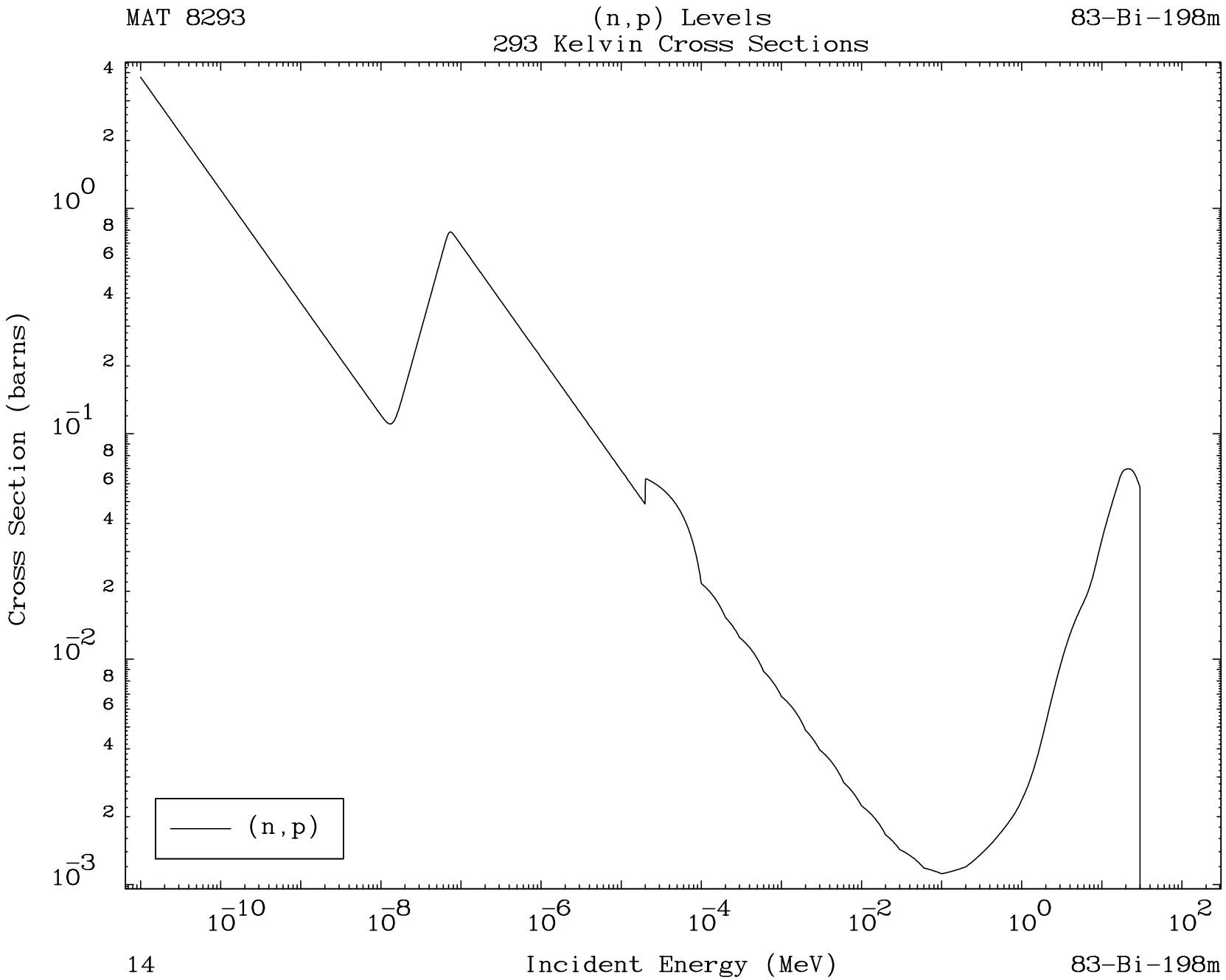

MAT 8293
Particle Production
293 Kelvin Cross Sections
83-Bi-198m
Cross Section (barns)
Incident Energy (MeV)
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production
9
83-Bi-198m

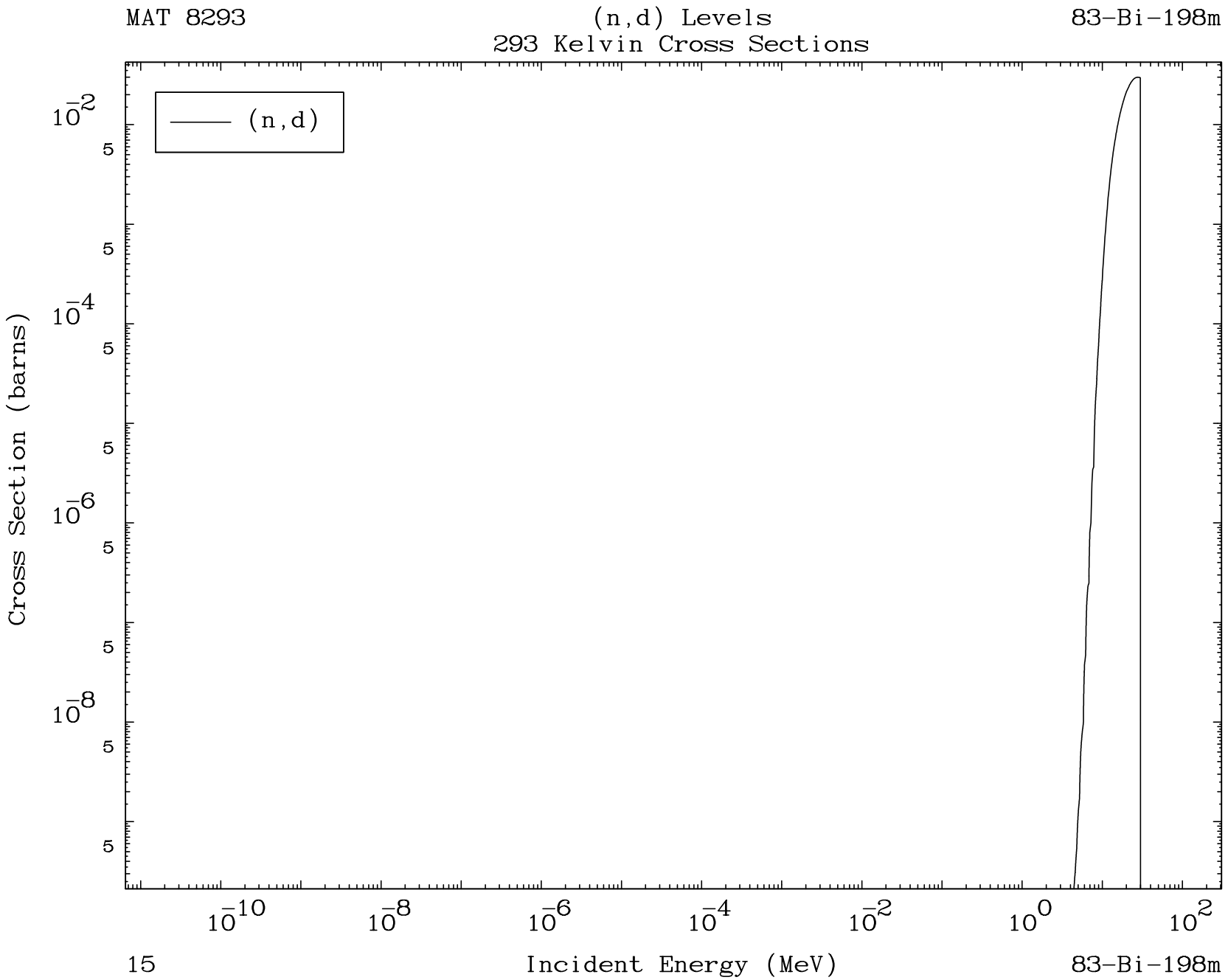

MAT 8293
(n,n') Levels
293 Kelvin Cross Sections
83-Bi-198m
Inelastic
MT= 51 (n,n') Level
MT= 52 (n,n') Level
MT= 53 (n,n') Level
MT= 54 (n,n') Level
MT= 55 (n,n') Level
MT= 56 (n,n') Level
MT= 57 (n,n') Level
MT= 58 (n,n') Level
Cross Section (barns)
Incident Energy (MeV)
10
83-Bi-198m

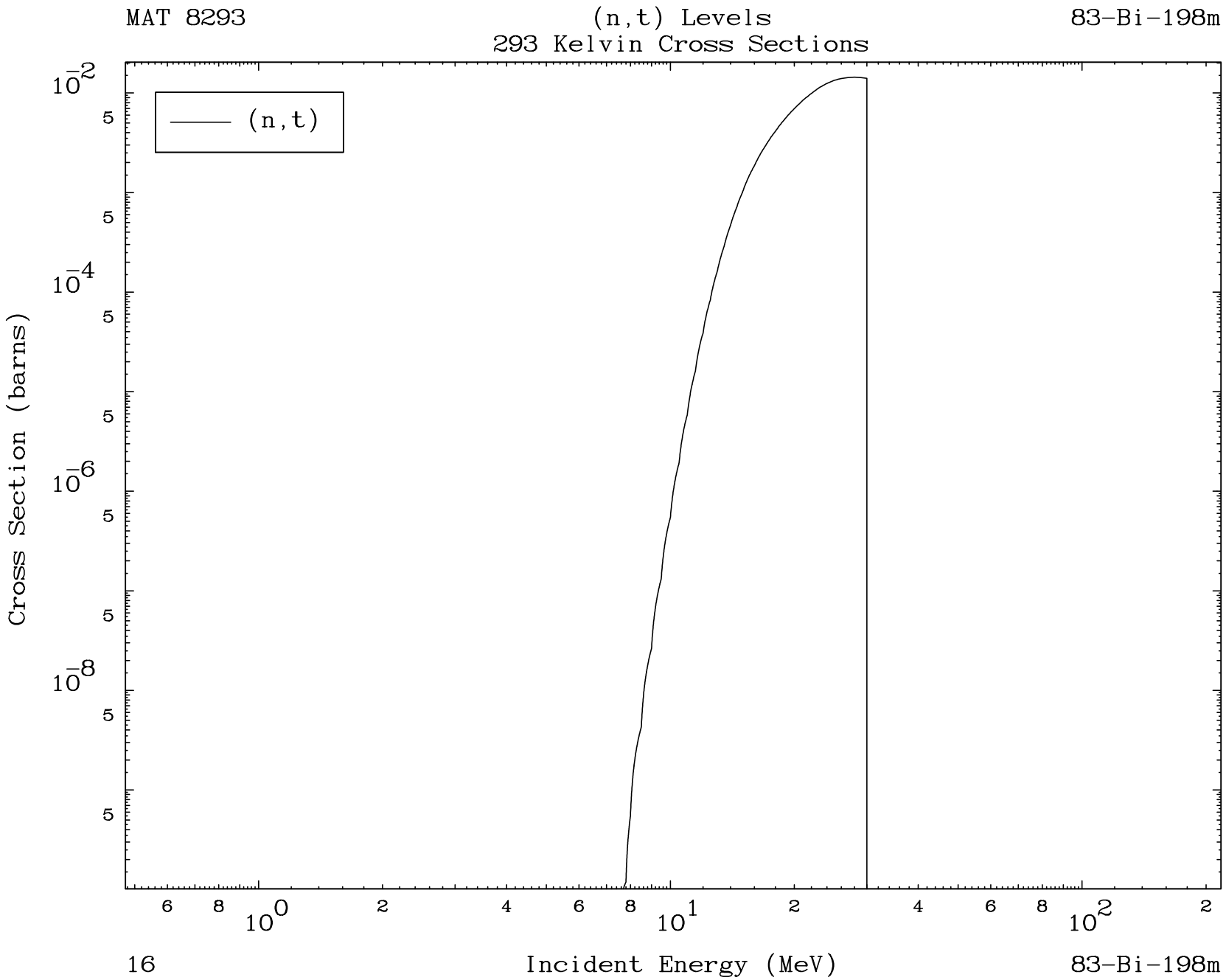

MAT 8293
(n,n') Levels
293 Kelvin Cross Sections
83-Bi-198m
Inelastic
MT= 59 (n,n') Level
MT= 60 (n,n') Level
MT= 61 (n,n') Level
MT= 62 (n,n') Level
MT= 63 (n,n') Level
MT= 64 (n,n') Level
MT= 65 (n,n') Level
MT= 66 (n,n') Level
Cross Section (barns)
Incident Energy (MeV)
11
83-Bi-198m

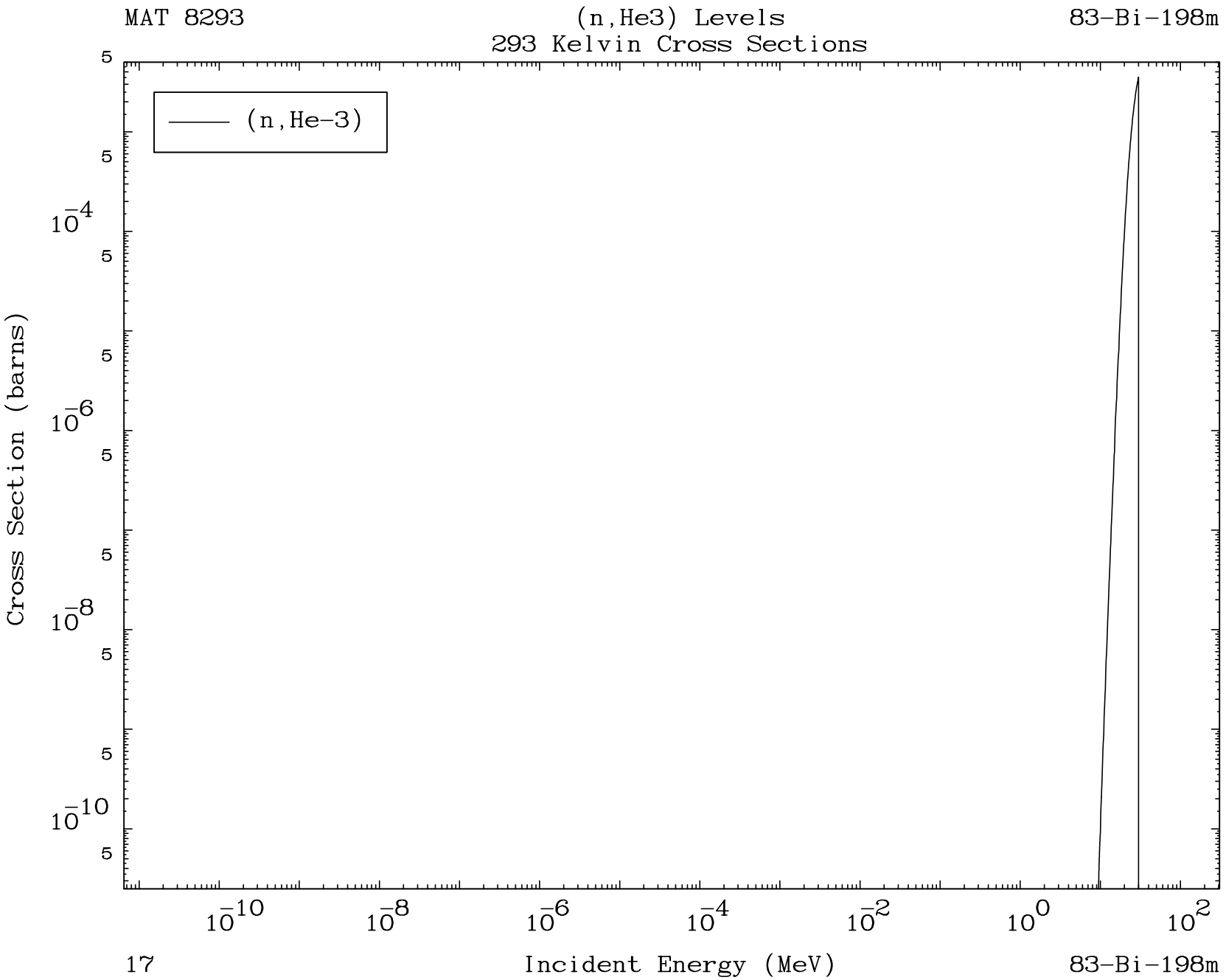

MAT 8293
(n,n') Levels
293 Kelvin Cross Sections
83-Bi-198m
Inelastic
MT= 67 (n,n') Level
MT= 68 (n,n') Level
MT= 69 (n,n') Level
MT= 70 (n,n') Level
MT= 71 (n,n') Level
MT= 72 (n,n') Level
MT= 73 (n,n') Level
MT= 74 (n,n') Level
Cross Section (barns)
Incident Energy (MeV)
12
83-Bi-198m

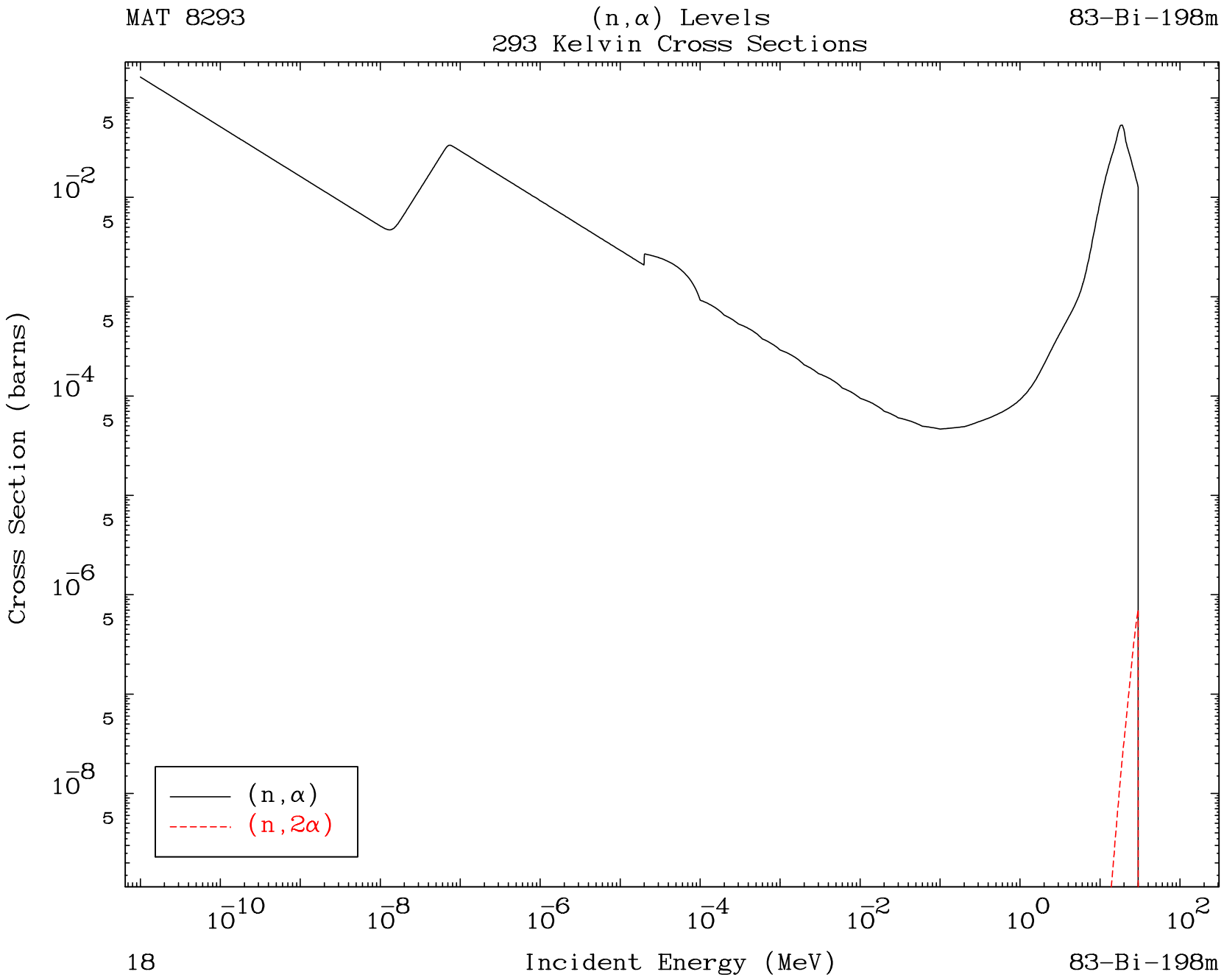

MAT 8293
(n,n') Levels
293 Kelvin Cross Sections
83-Bi-198m
Inelastic
MT= 75 (n,n') Level
MT= 76 (n,n') Level
MT= 77 (n,n') Level
MT= 78 (n,n') Level
MT= 79 (n,n') Level
MT= 80 (n,n') Level
(n,n') Continuum
Cross Section (barns)
Incident Energy (MeV)
13
83-Bi-198m

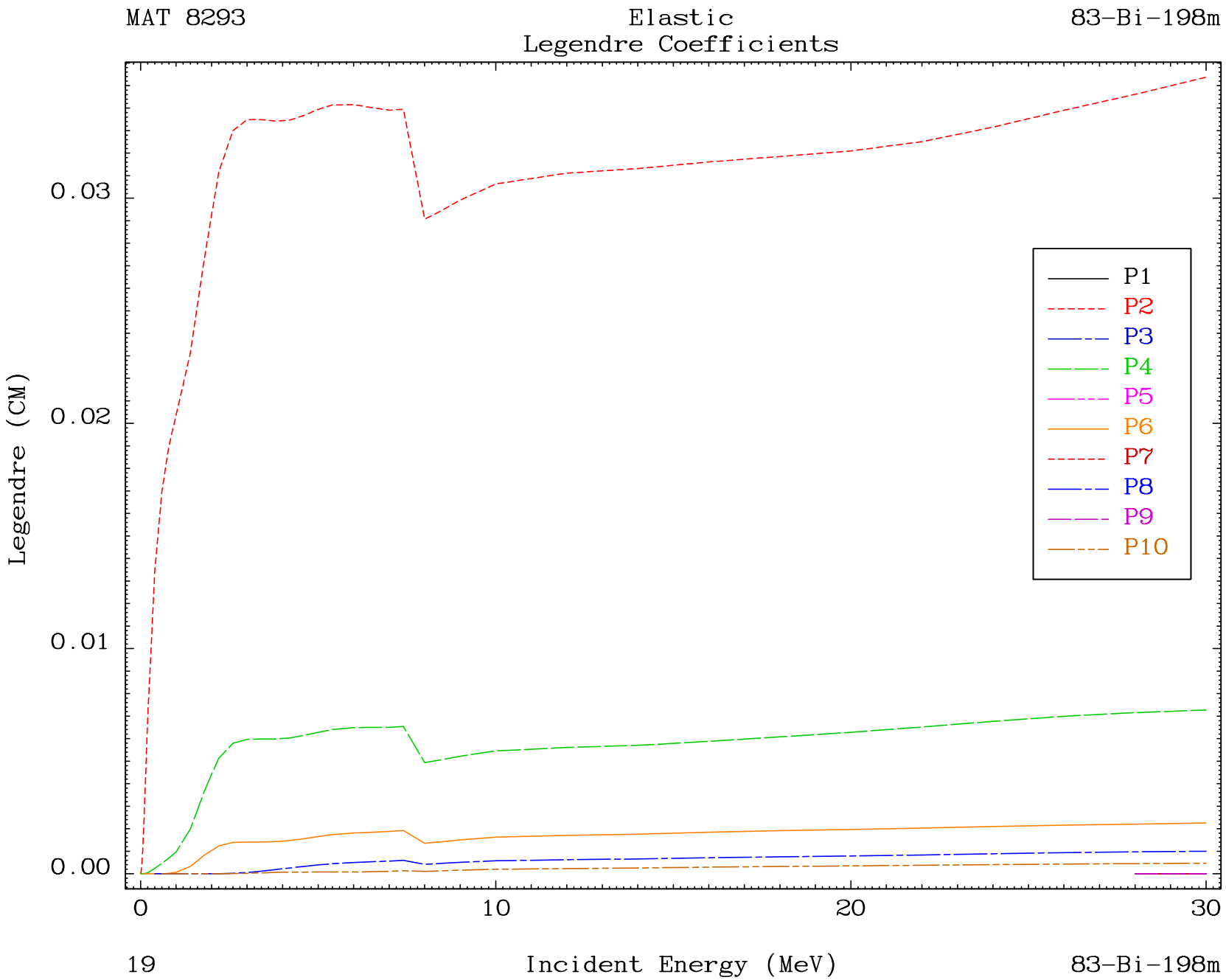

MAT 8293
(n,p) Levels
83-Bi-198m
293 Kelvin Cross Sections
Cross Section (barns)
(n,p)
Incident Energy (MeV)
14
83-Bi-198m

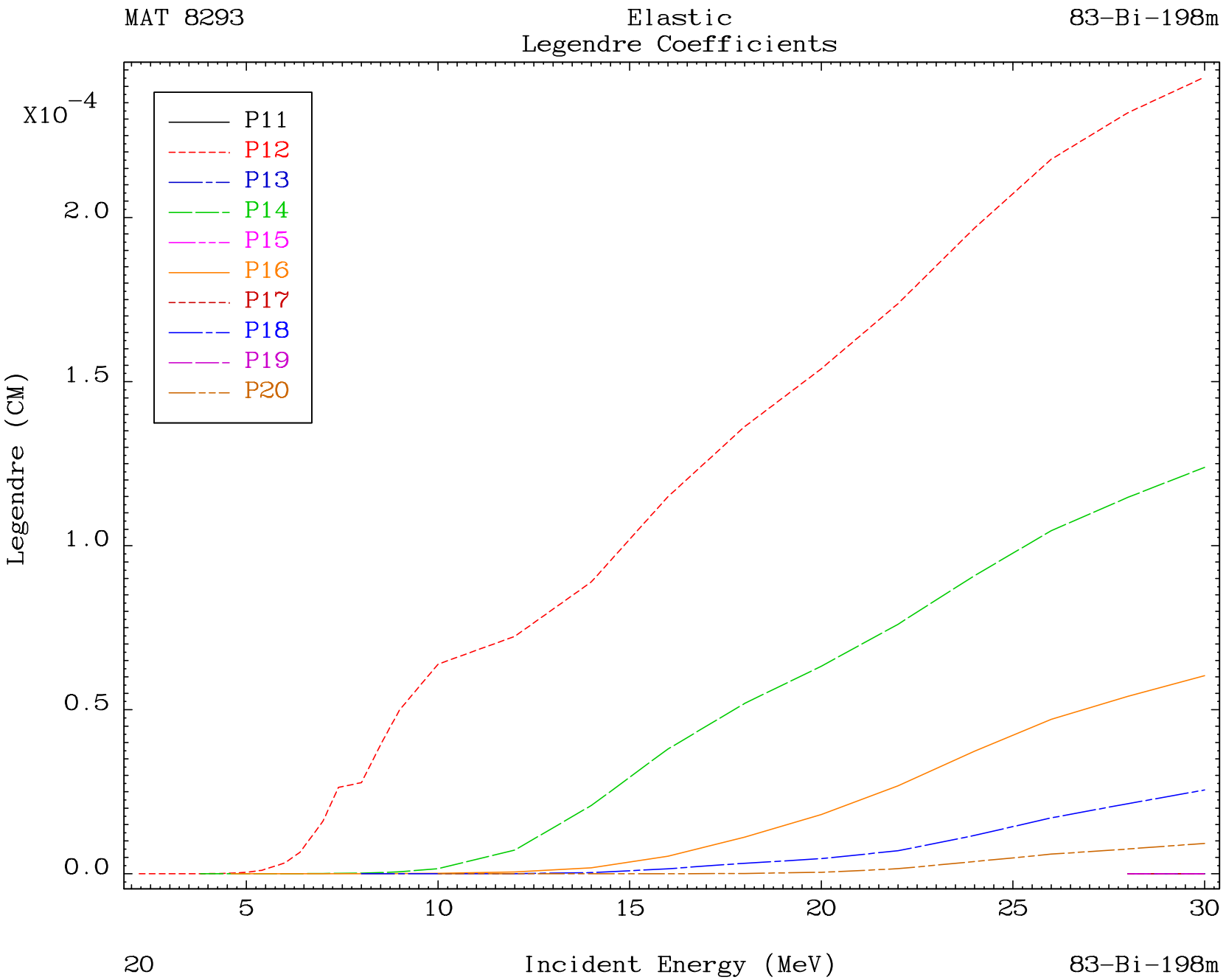

MAT 8293
(n,d) Levels
293 Kelvin Cross Sections
83-Bi-198m
(n,d)
Cross Section (barns)
Incident Energy (MeV)
15
83-Bi-198m

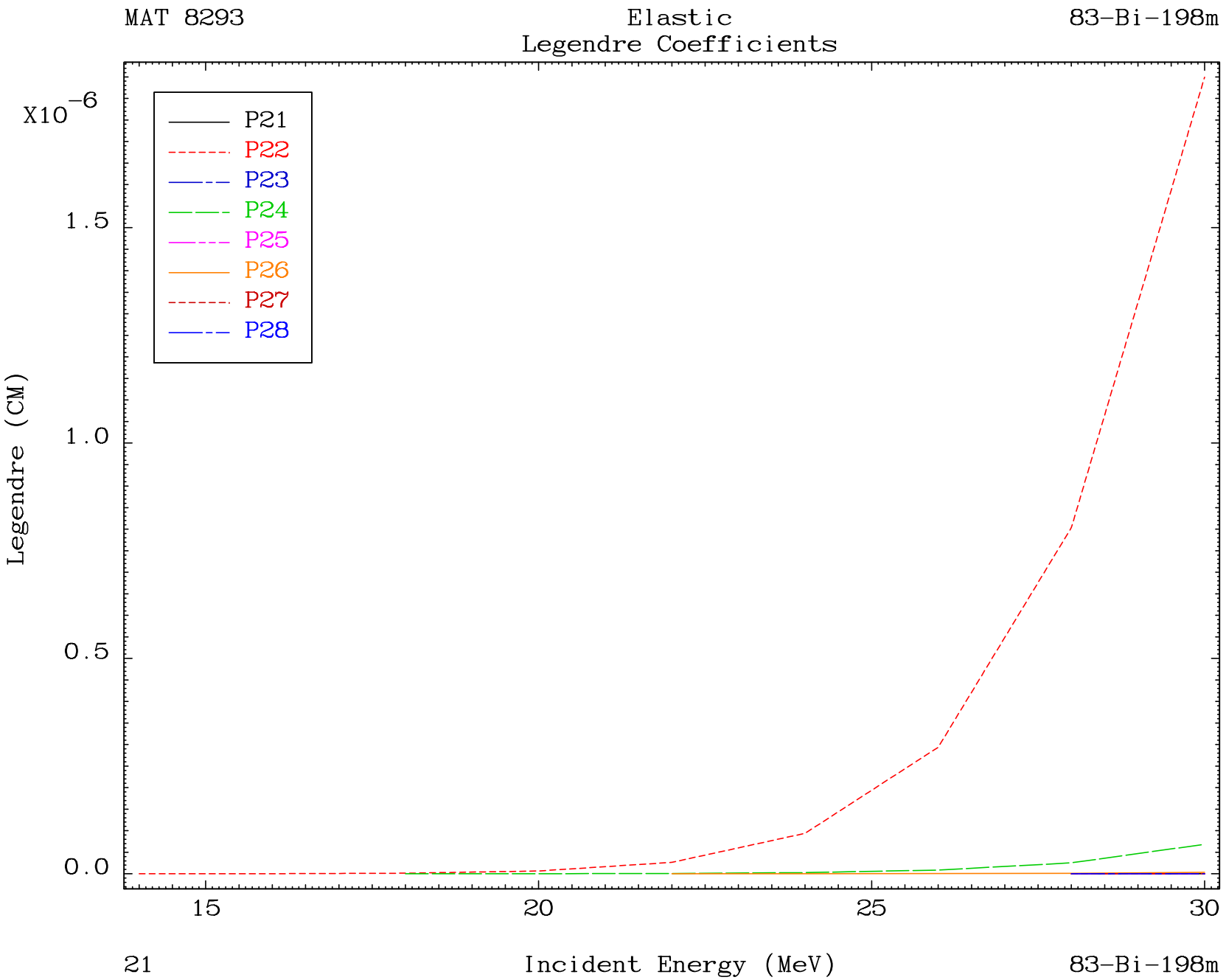

MAT 8293
(n,t) Levels
83-Bi-198m
293 Kelvin Cross Sections
(n,t)
Cross Section (barns)
Incident Energy (MeV)
16
83-Bi-198m

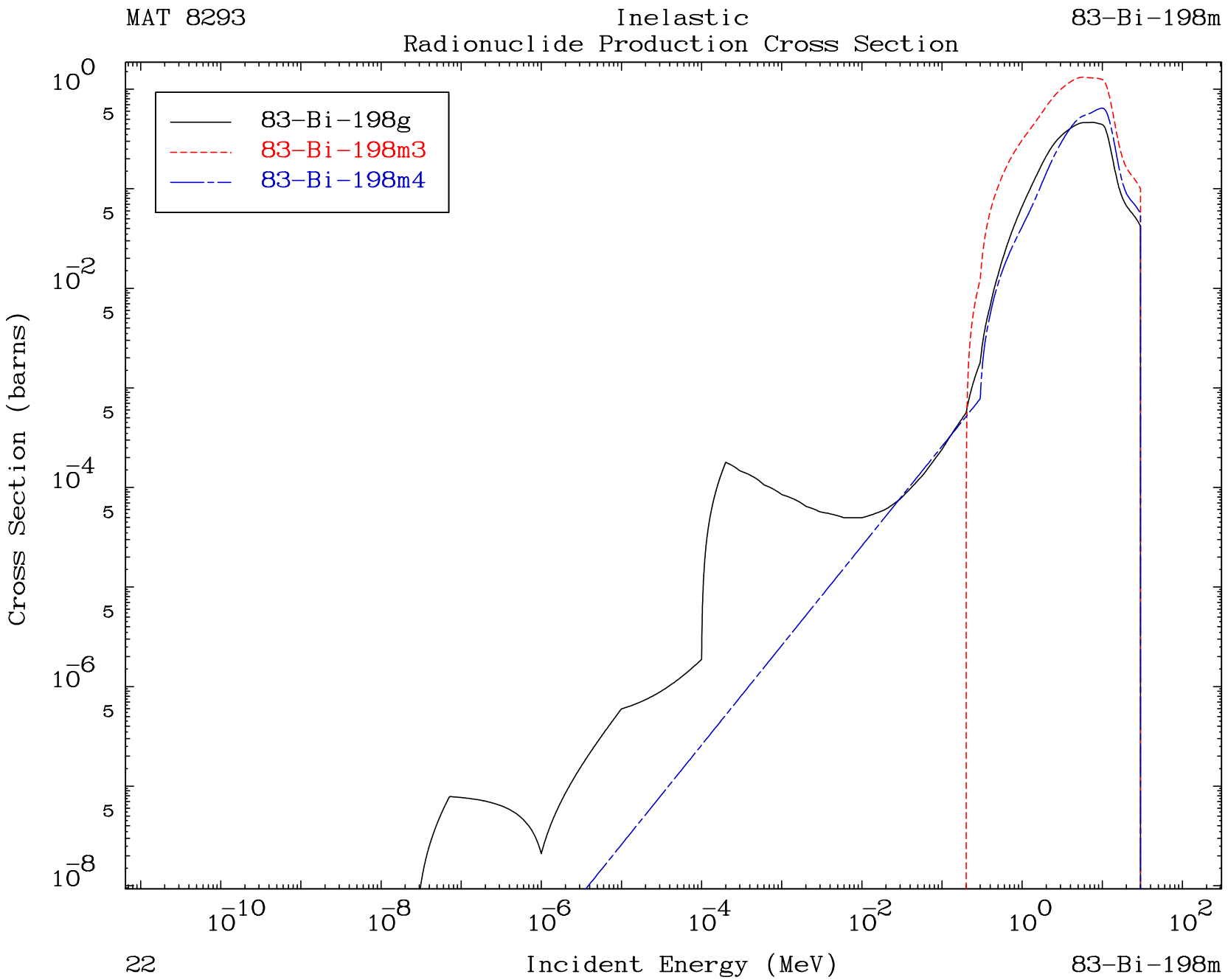

MAT 8293
(n,He3) Levels
83-Bi-198m
293 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
Incident Energy (MeV)
17
83-Bi-198m

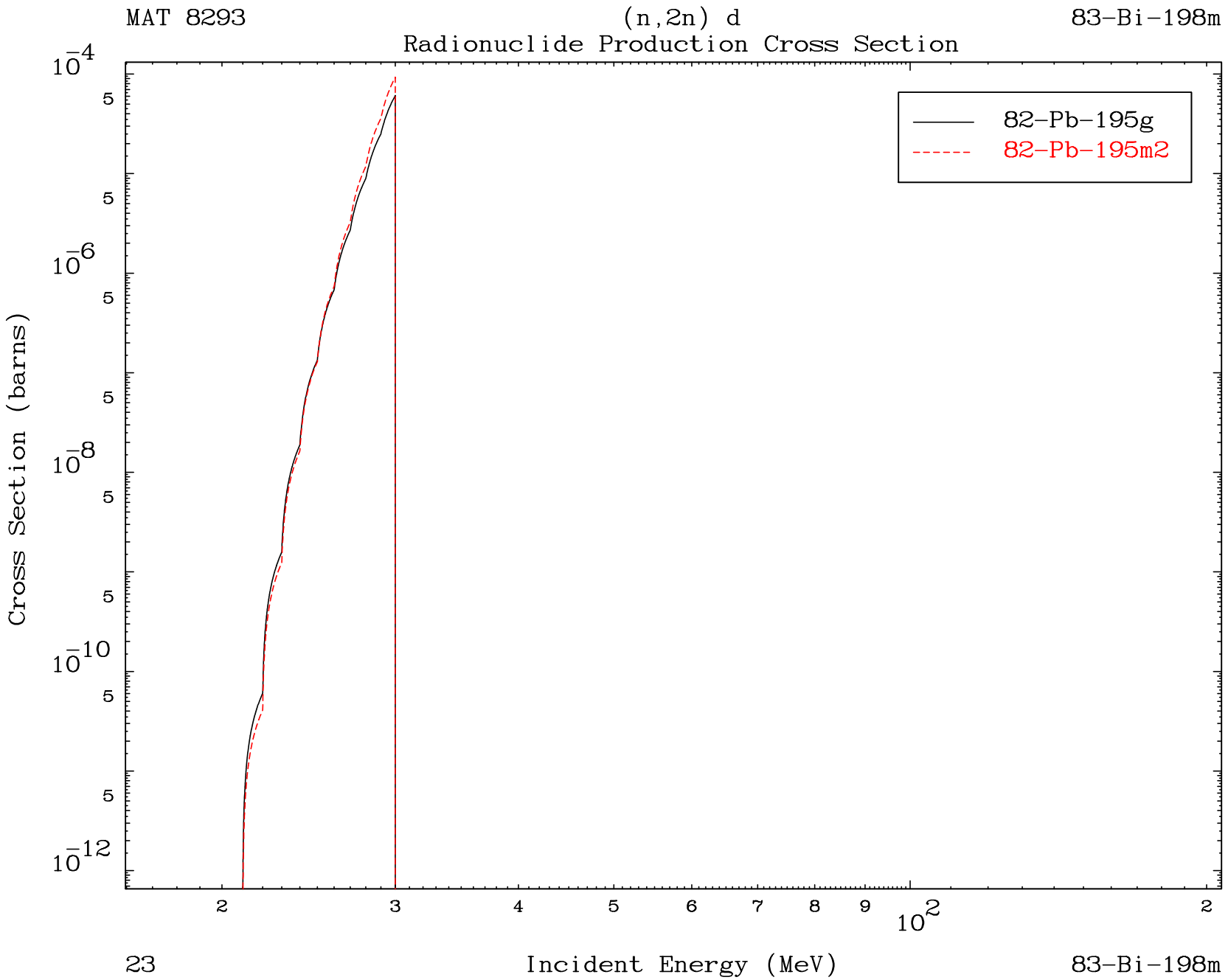

MAT 8293
(n,α) Levels
83-Bi-198m
293 Kelvin Cross Sections
Cross Section (barns)
10-2
10-4
10-6
10-8
10-10
10-8
10-6
10-4
10-2
100
102
Incident Energy (MeV)
(n,α)
(n,2α)
18
83-Bi-198m

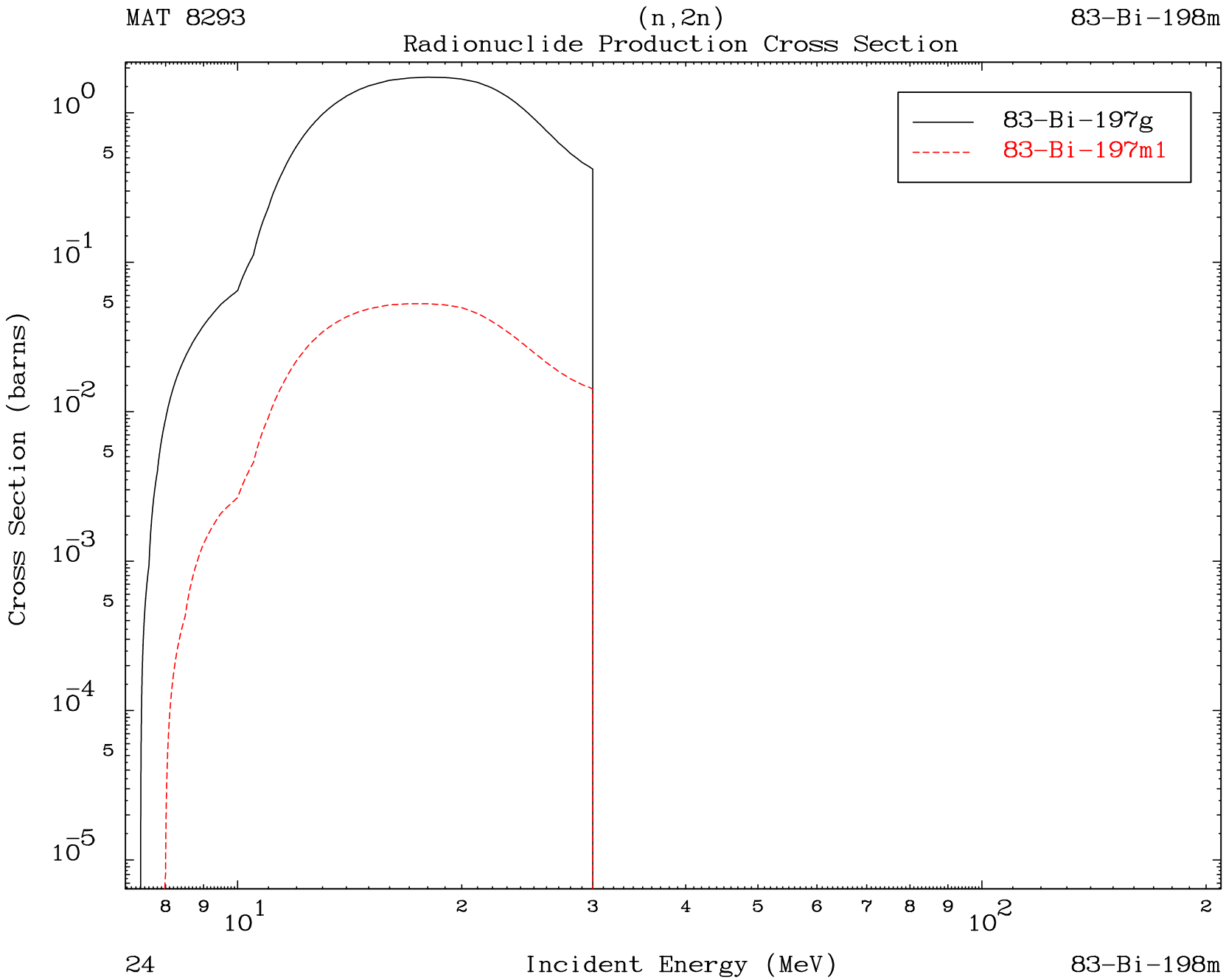

MAT 8293
Elastic
Legendre Coefficients
83-Bi-198m
0.03
0.02
0.01
0.00
Legendre (CM)
0
10
20
30
19
Incident Energy (MeV)
83-Bi-198m
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10

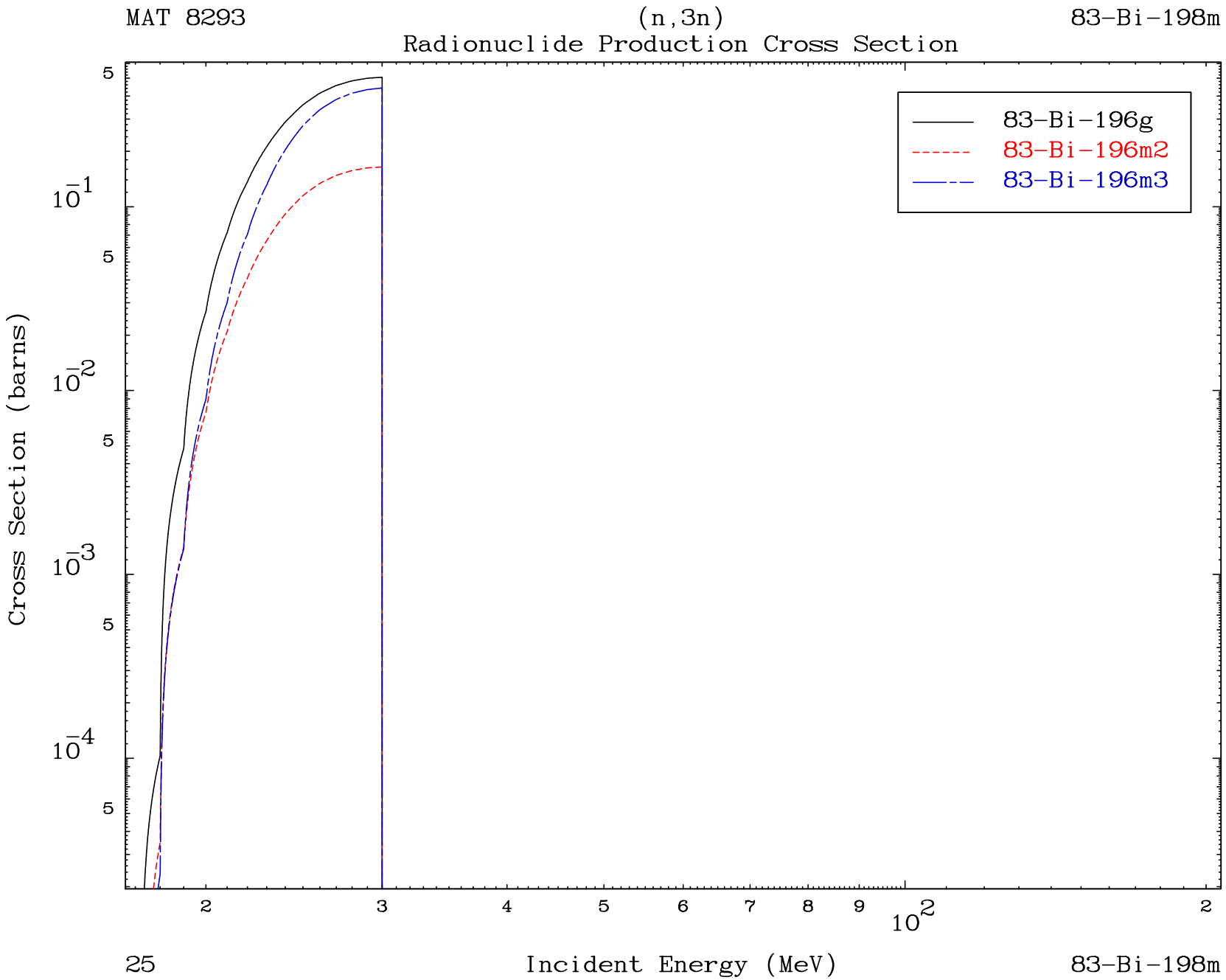

MAT 8293
Elastic
Legendre Coefficients
83-Bi-198m
X10^-4
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
5
10
15
20
25
30
20
Incident Energy (MeV)
83-Bi-198m

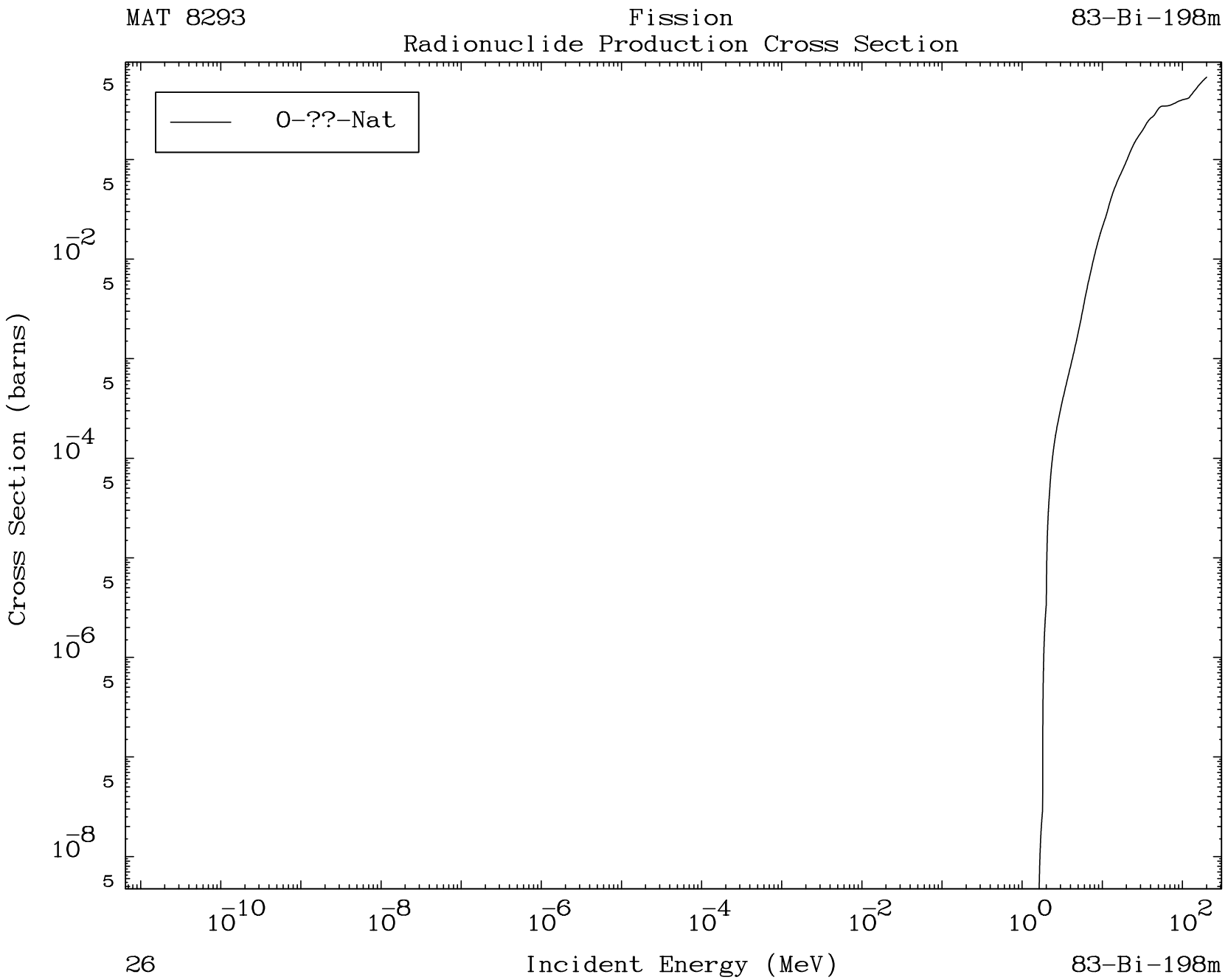

MAT 8293
Elastic
Legendre Coefficients
83-Bi-198m
X10^-6
1.5
1.0
0.5
0.0
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
15
20
25
30
21
Incident Energy (MeV)
83-Bi-198m

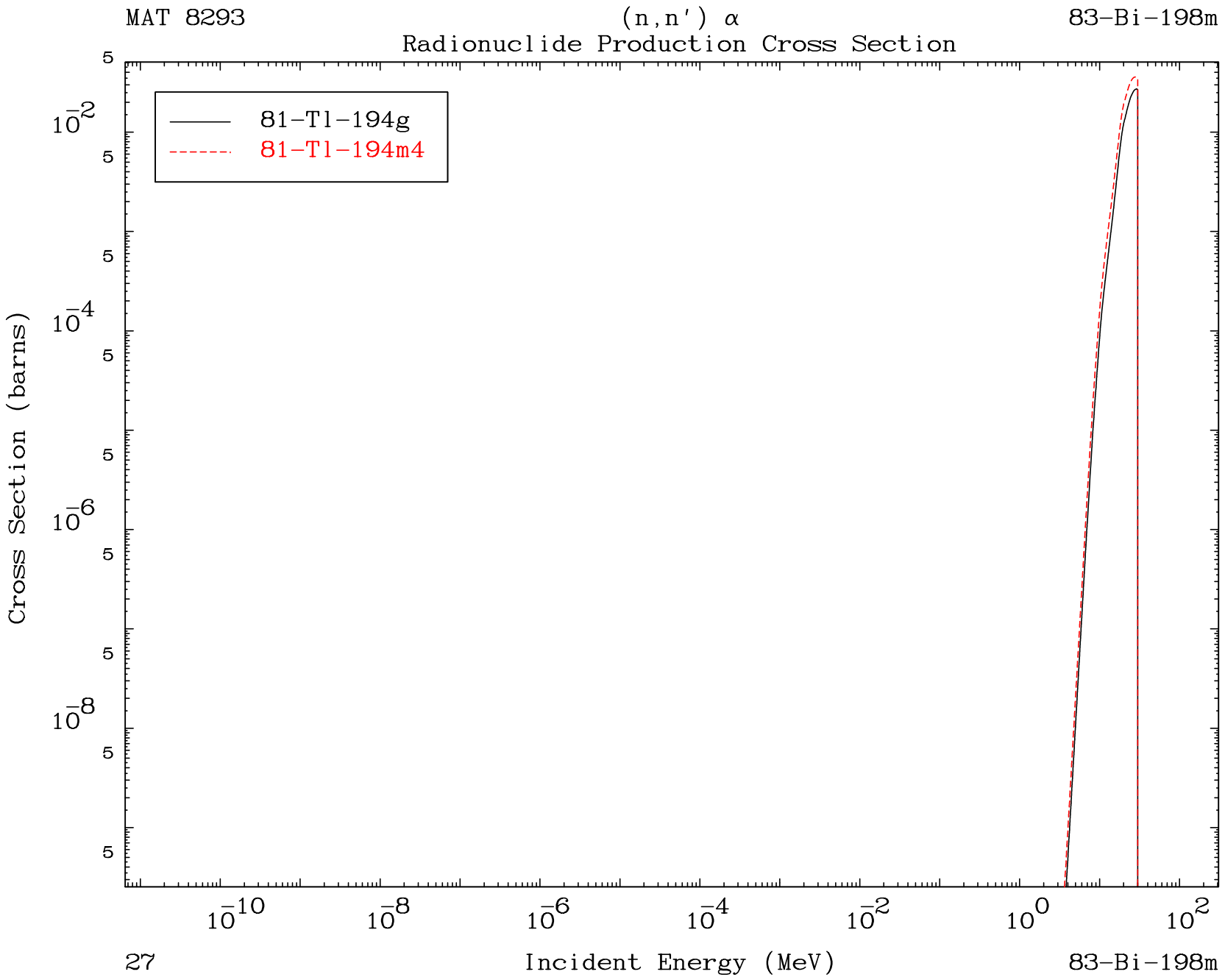

MAT 8293
Inelastic
83-Bi-198m
Radionuclide Production Cross Section
83-Bi-198g
83-Bi-198m3
83-Bi-198m4
Cross Section (barns)
Incident Energy (MeV)
22
83-Bi-198m

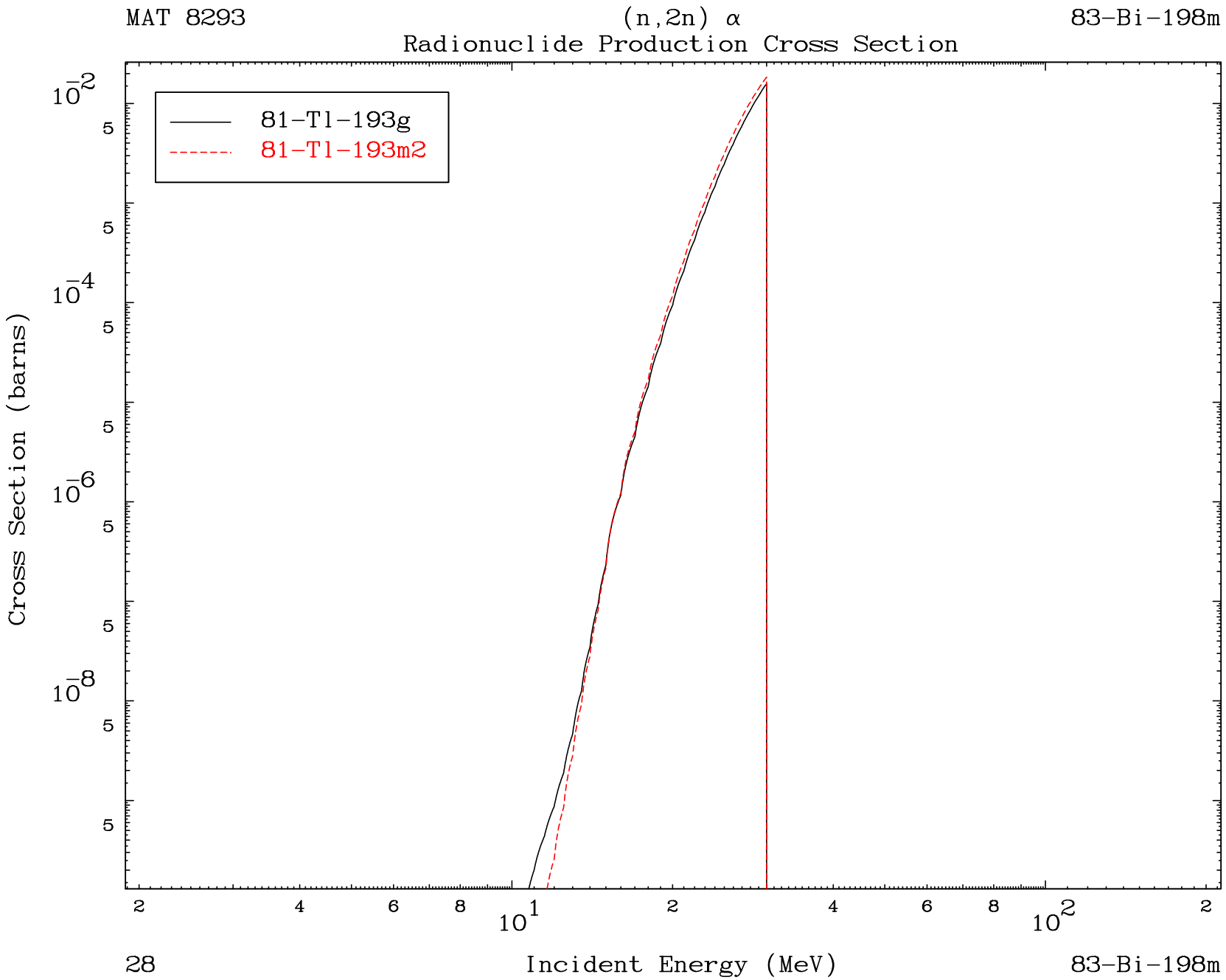

MAT 8293
(n,2n) d
83-Bi-198m
Radionuclide Production Cross Section
82-Pb-195g
82-Pb-195m2
Cross Section (barns)
Incident Energy (MeV)
23
83-Bi-198m

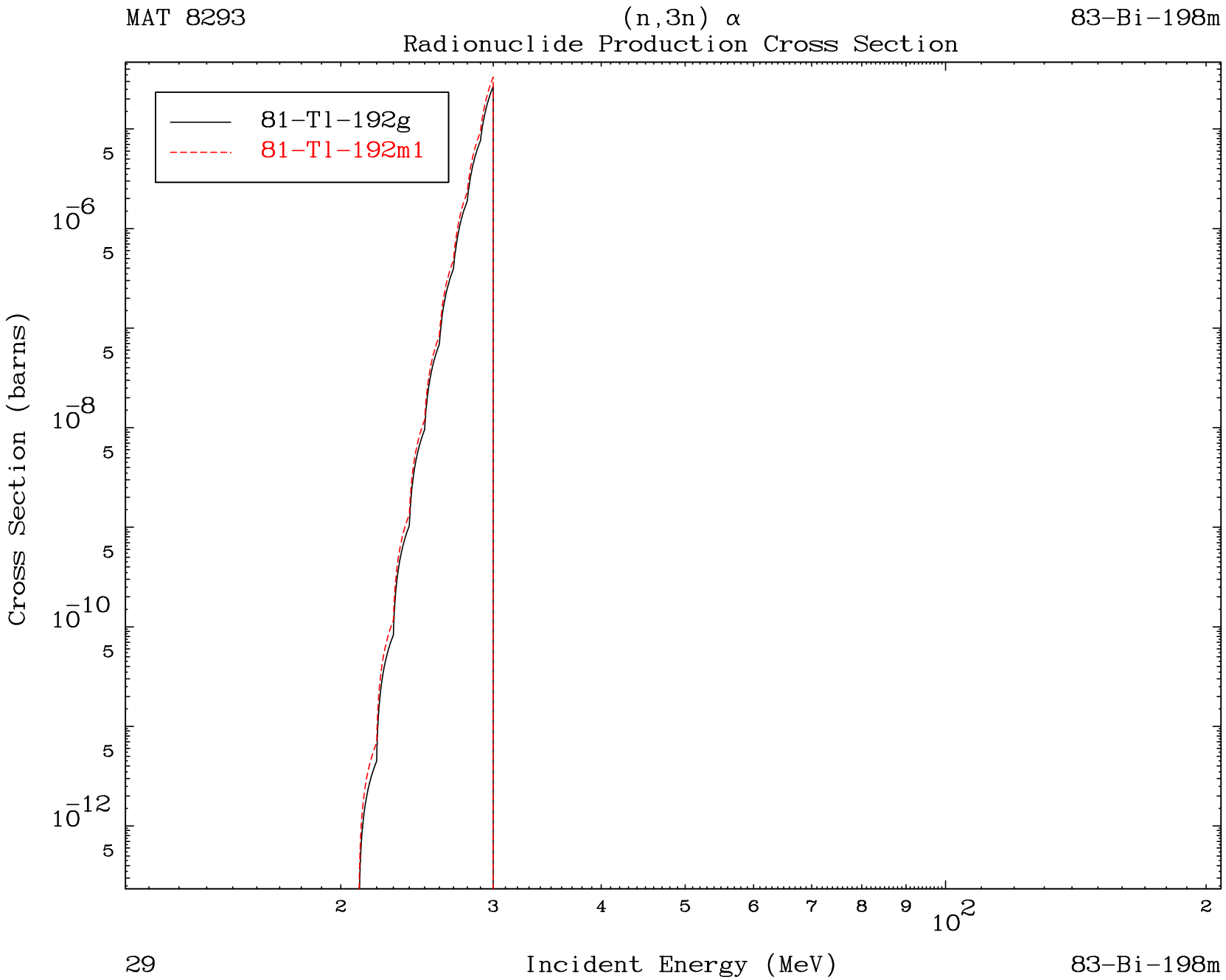

MAT 8293
(n,2n)
83-Bi-198m
Radionuclide Production Cross Section
83-Bi-197g
83-Bi-197m1
Cross Section (barns)
Incident Energy (MeV)
24
83-Bi-198m

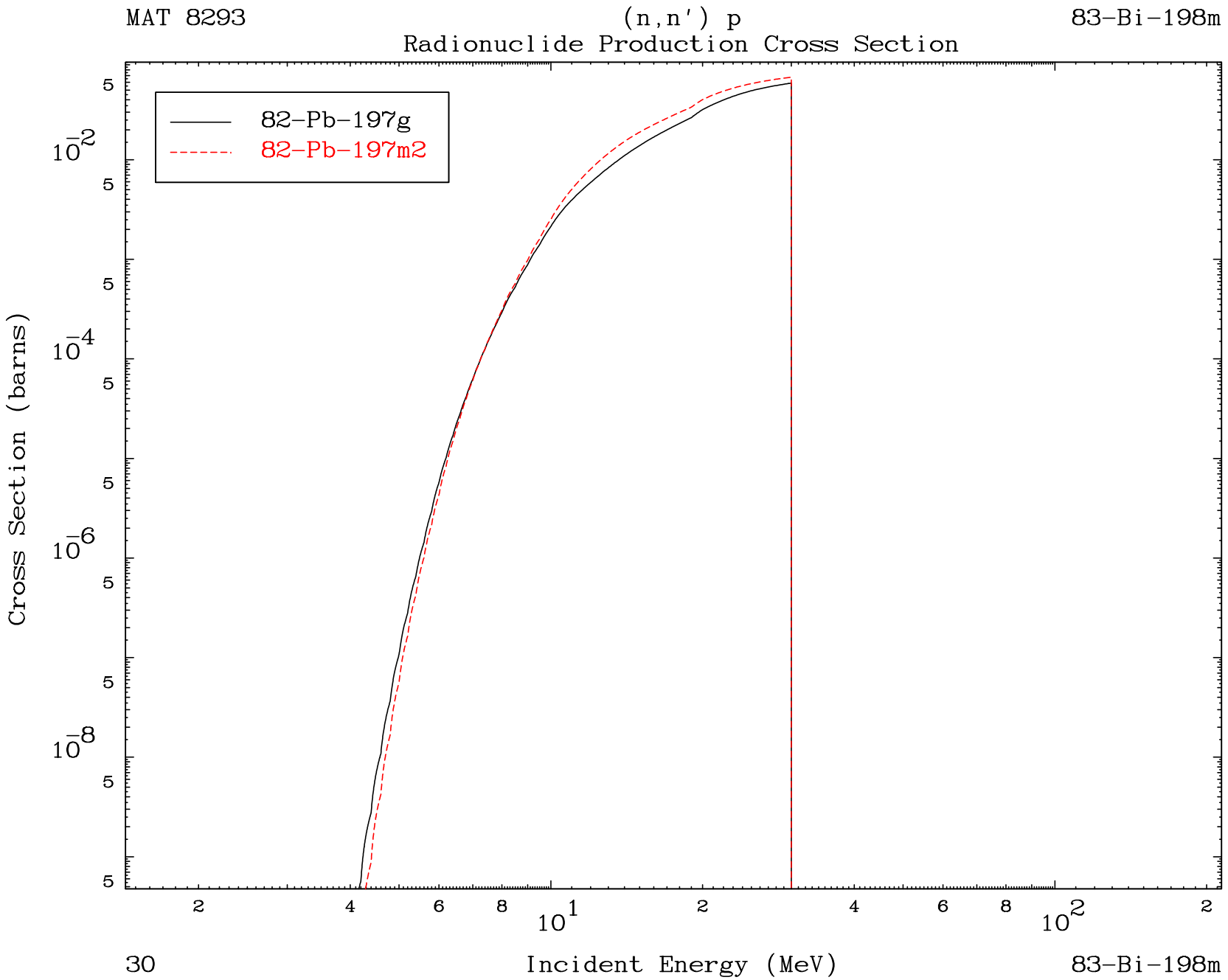

MAT 8293
(n,3n)
83-Bi-198m
Radionuclide Production Cross Section
83-Bi-196g
83-Bi-196m2
83-Bi-196m3
Cross Section (barns)
10-1
10-2
10-3
10-4
5
2
3
4
6
7
8
9
10 2
Incident Energy (MeV)
25
83-Bi-198m

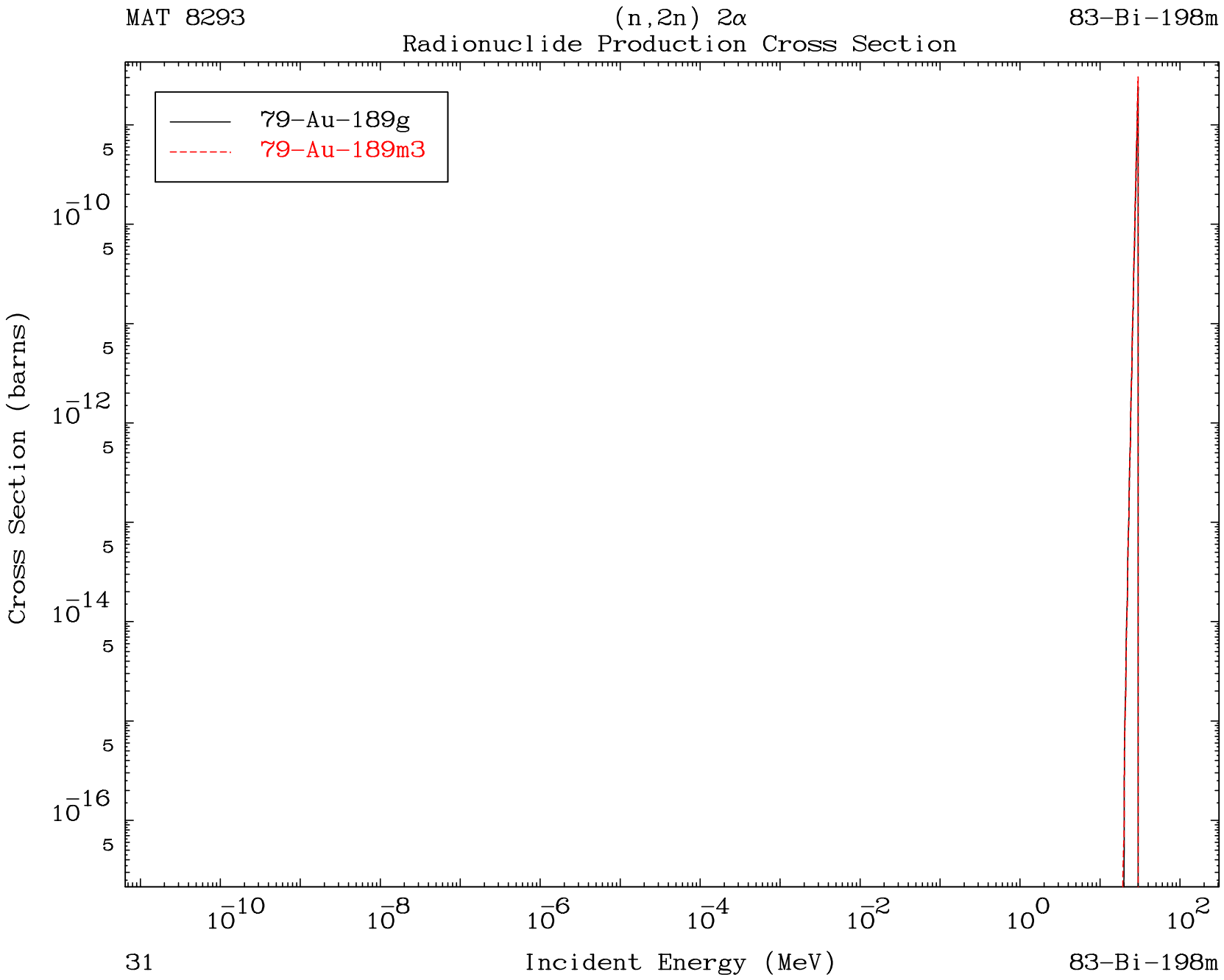

MAT 8293
Fission
83-Bi-198m
Radionuclide Production Cross Section
0-??-Nat
Cross Section (barns)
Incident Energy (MeV)
26
83-Bi-198m

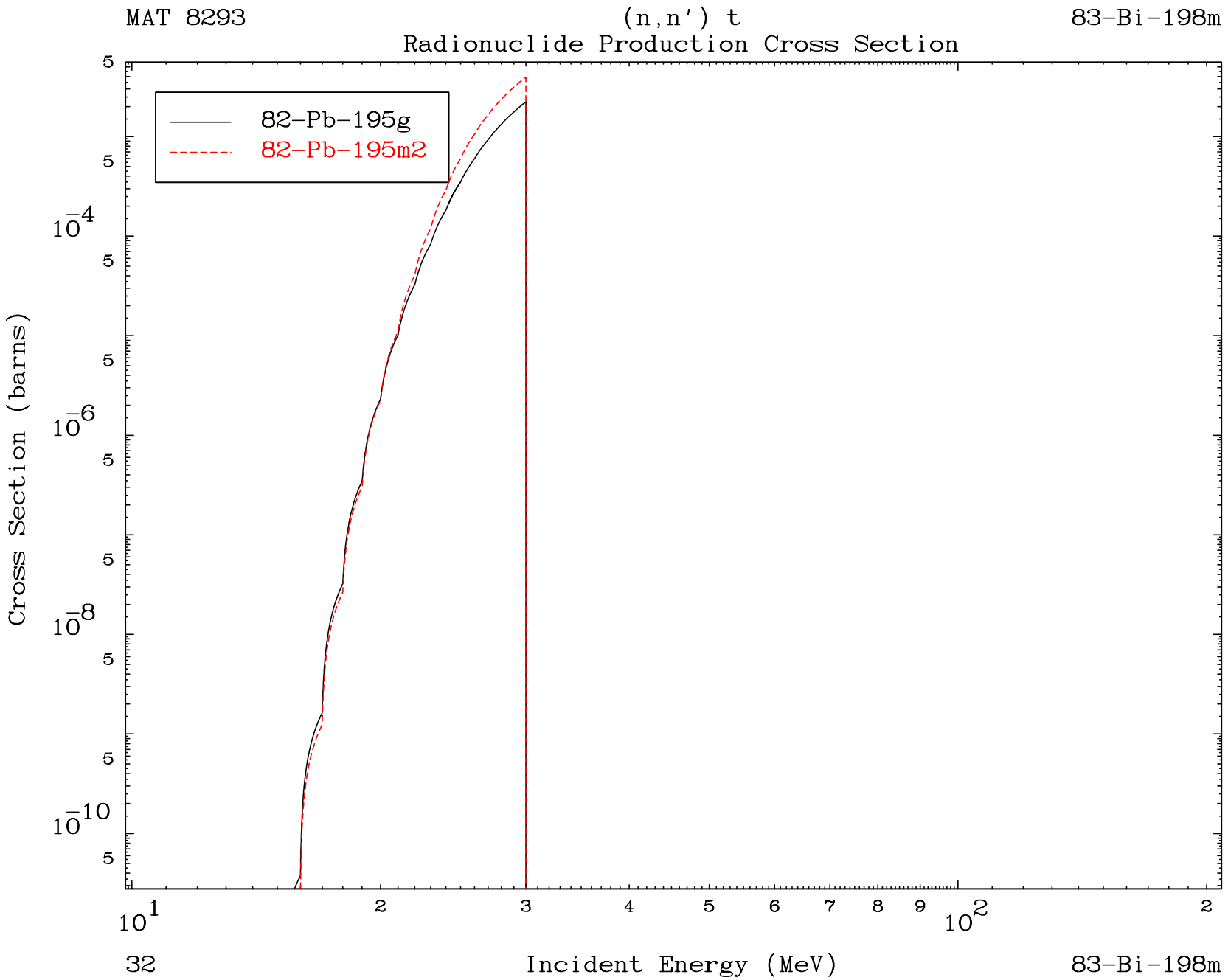

MAT 8293
(n,n') α
83-Bi-198m
Radionuclide Production Cross Section
81-Tl-194g
81-Tl-194m4
Cross Section (barns)
Incident Energy (MeV)
27
83-Bi-198m

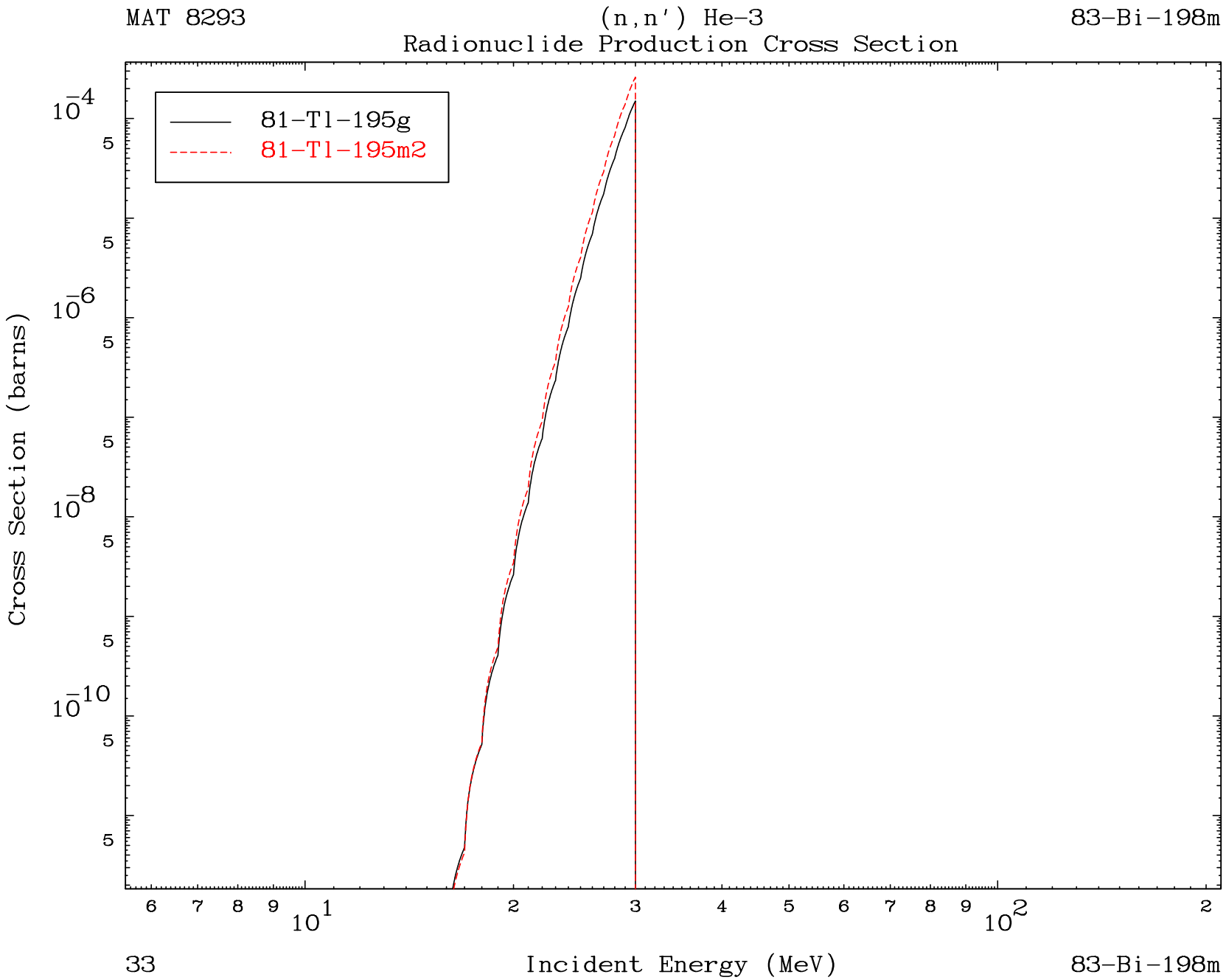

MAT 8293
(n,2n) α
83-Bi-198m
Radionuclide Production Cross Section
81-Tl-193g
81-Tl-193m2
Cross Section (barns)
Incident Energy (MeV)
28
83-Bi-198m

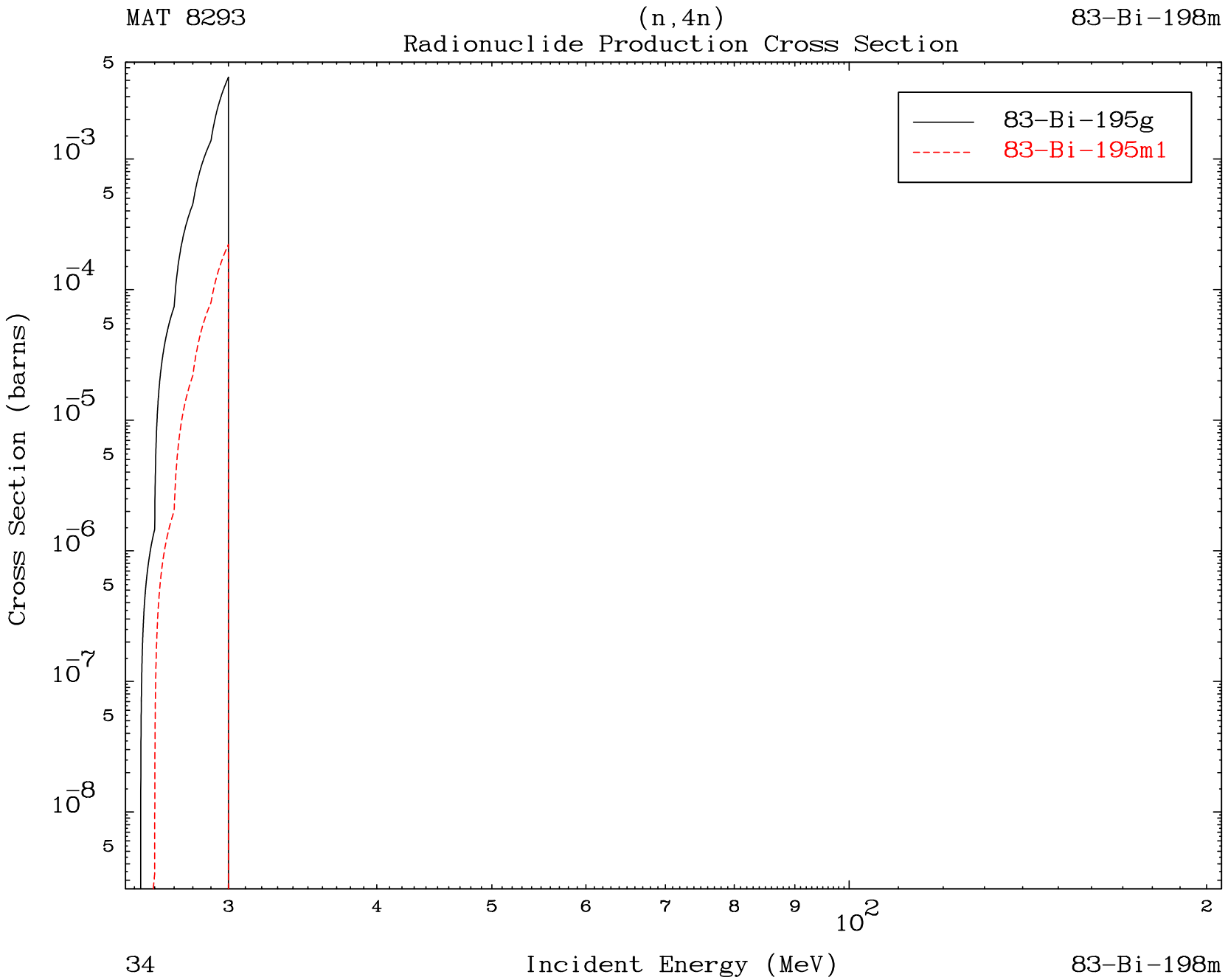

MAT 8293
(n,3n) α
83-Bi-198m
Radionuclide Production Cross Section
81-Tl-192g
81-Tl-192m1
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
2
3
4
5
6
7
8
9
10^2
2
29
Incident Energy (MeV)
83-Bi-198m

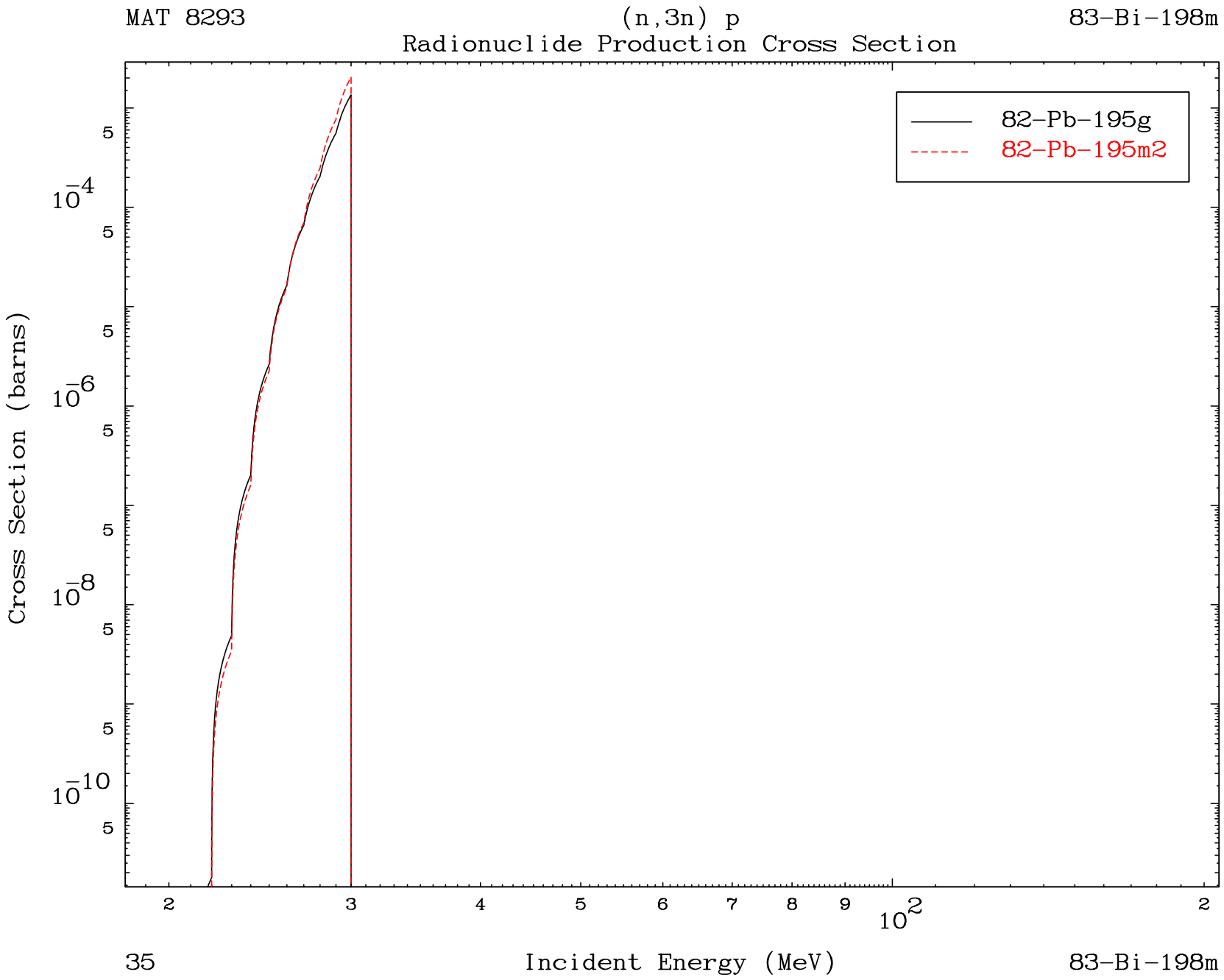

MAT 8293
(n,n') p
83-Bi-198m
Radionuclide Production Cross Section
82-Pb-197g
82-Pb-197m2
Cross Section (barns)
Incident Energy (MeV)
30
83-Bi-198m

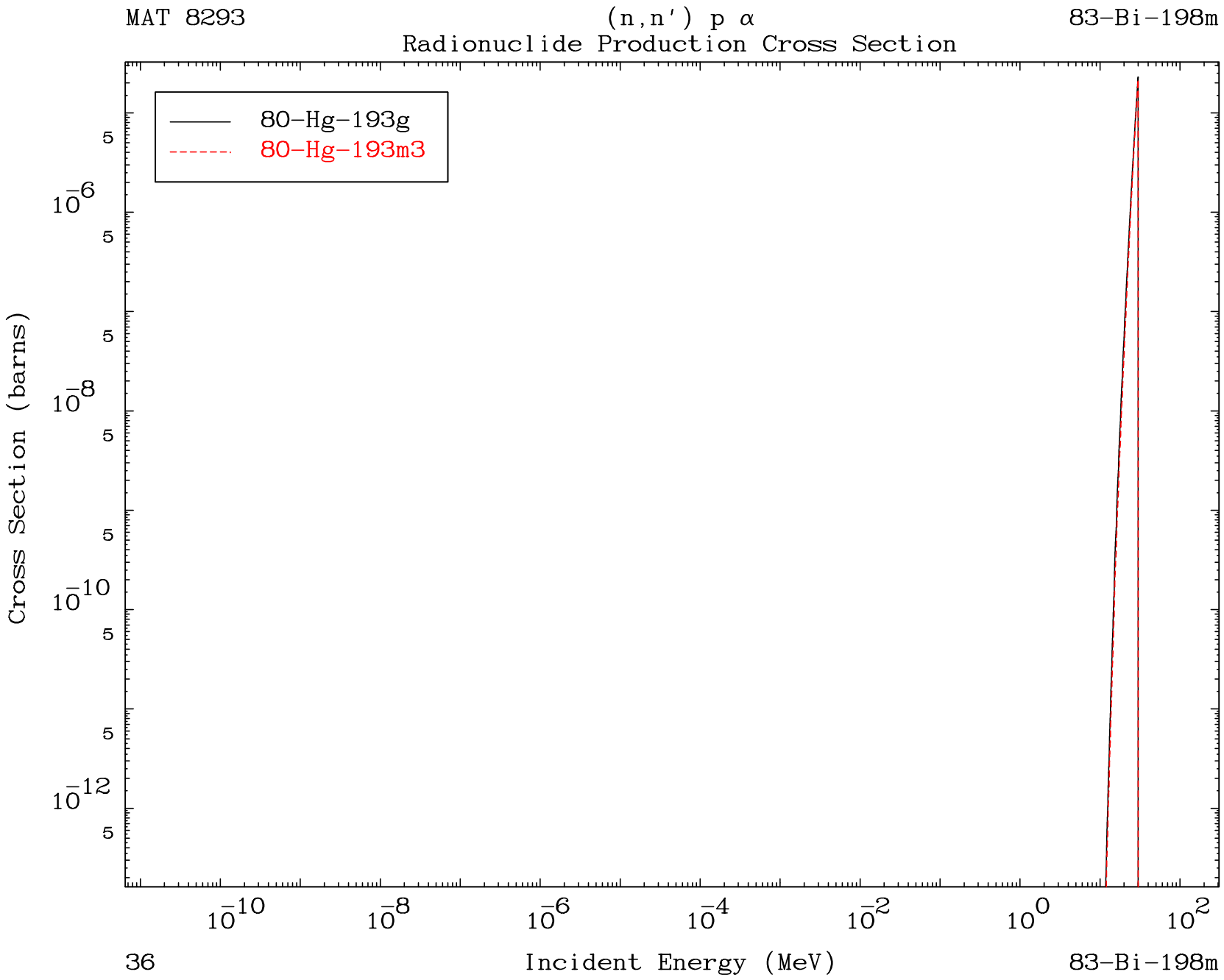

MAT 8293
(n,2n) 2α
83-Bi-198m
Radionuclide Production Cross Section
79-Au-189g
79-Au-189m3
Cross Section (barns)
Incident Energy (MeV)
31
83-Bi-198m

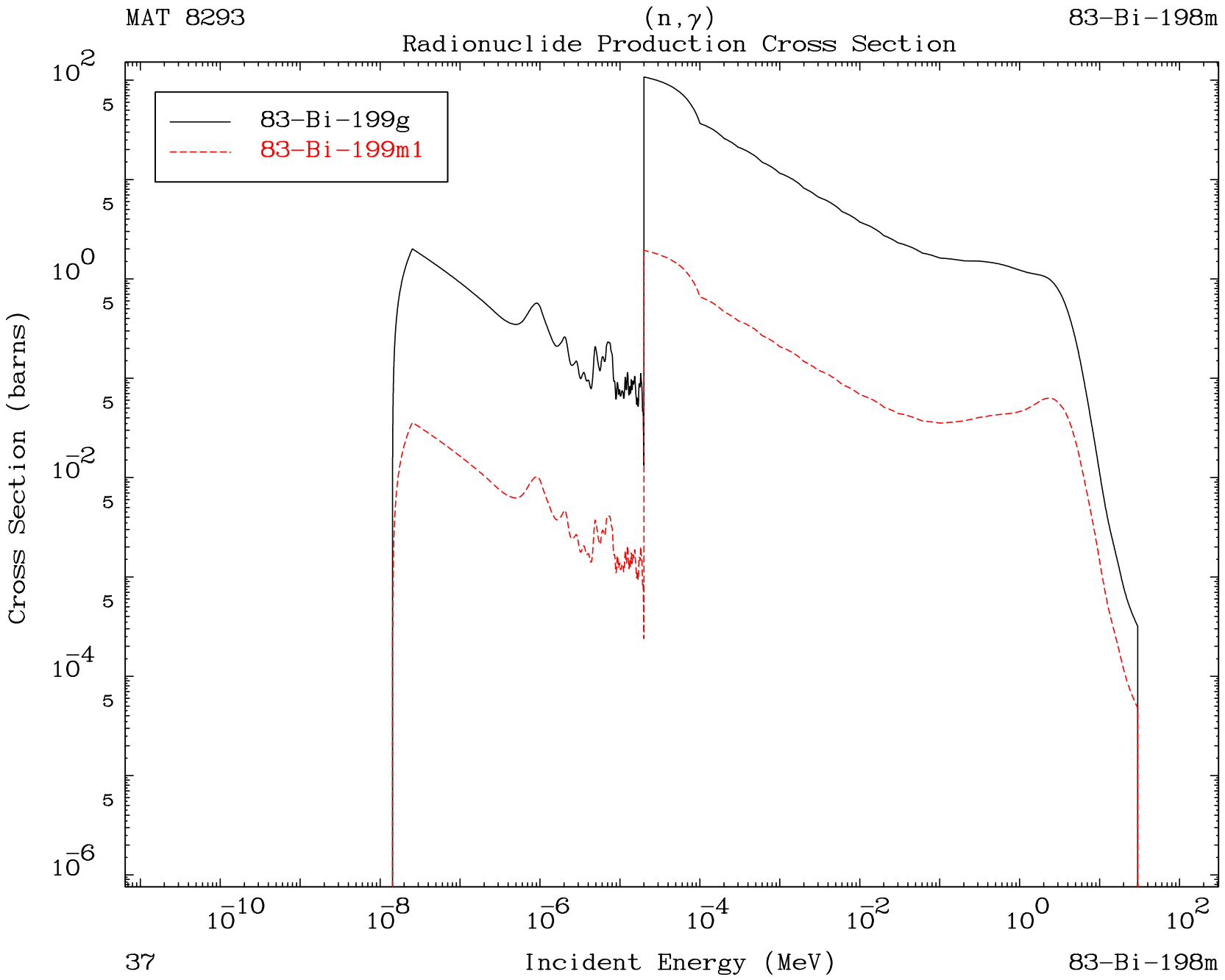

MAT 8293
(n,n') t
83-Bi-198m
Radionuclide Production Cross Section
82-Pb-195g
82-Pb-195m2
Cross Section (barns)
Incident Energy (MeV)
32
83-Bi-198m

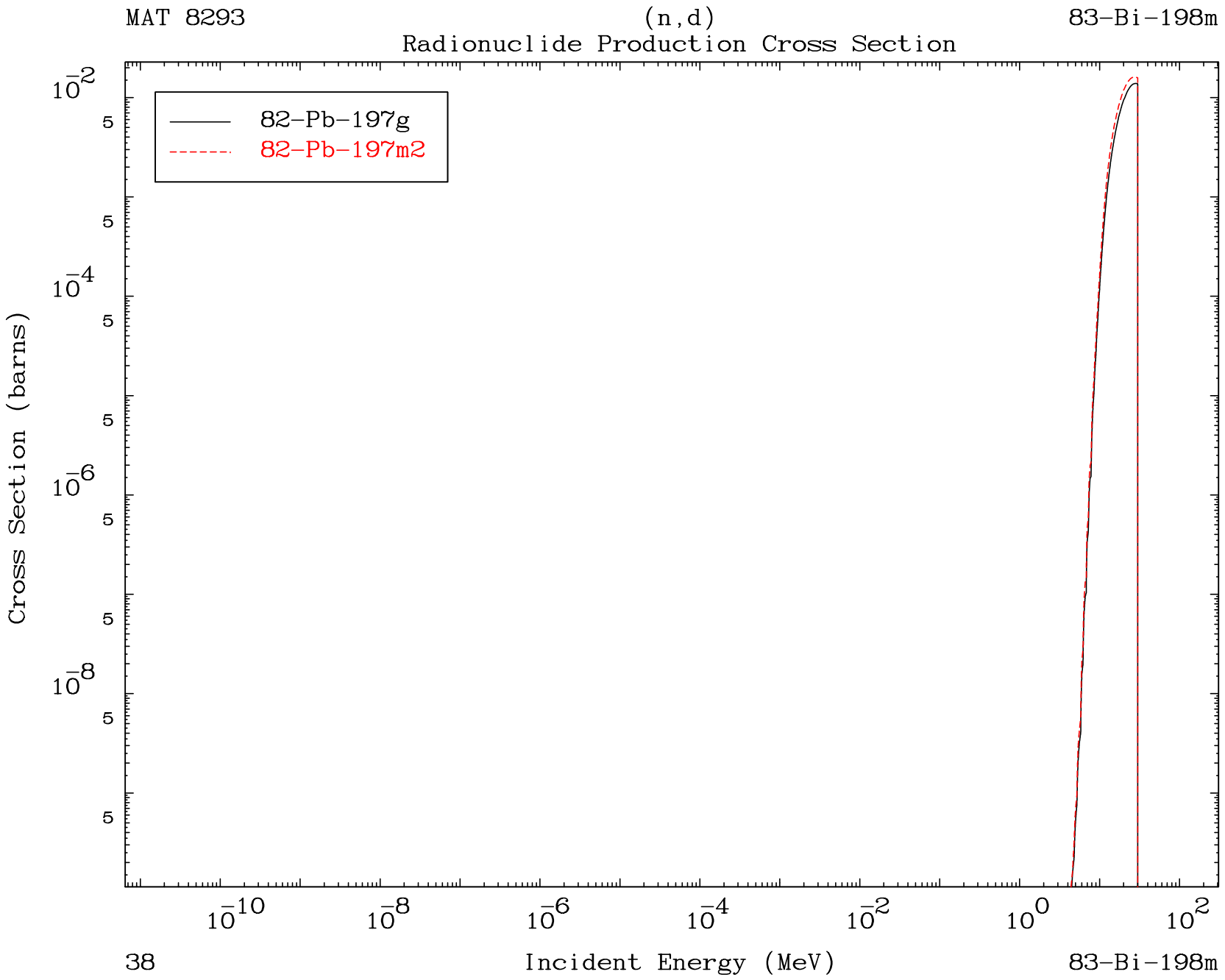

MAT 8293
(n,n') He-3
83-Bi-198m
Radionuclide Production Cross Section
81-Tl-195g
81-Tl-195m2
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
6 7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
33
Incident Energy (MeV)
83-Bi-198m

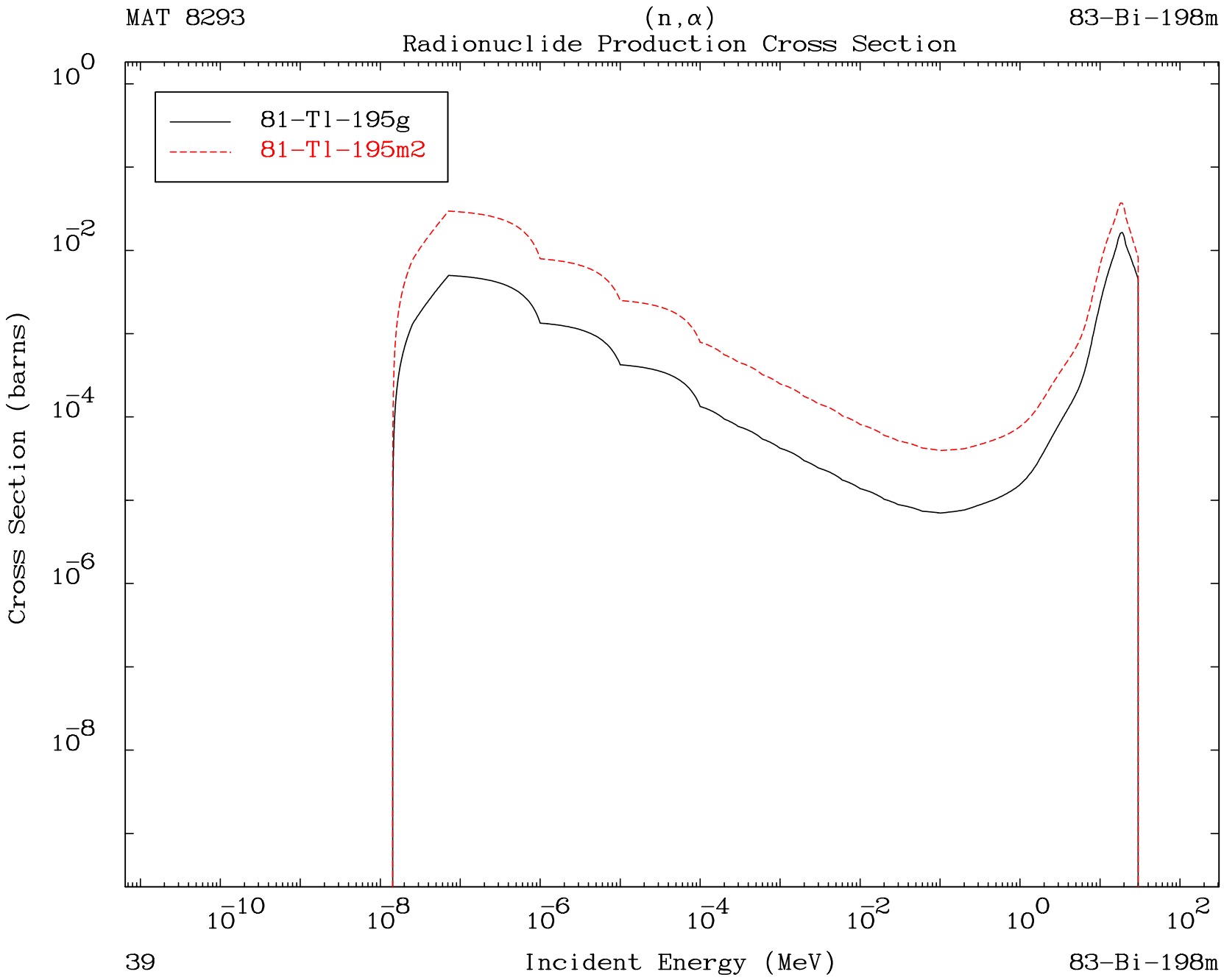

MAT 8293
(n,4n)
83-Bi-198m
Radionuclide Production Cross Section
83-Bi-195g
83-Bi-195m1
Cross Section (barns)
10-3
10-4
10-5
10-6
10-7
10-8
3
4
5
6
7
8
9
10+2
2
34
Incident Energy (MeV)
83-Bi-198m

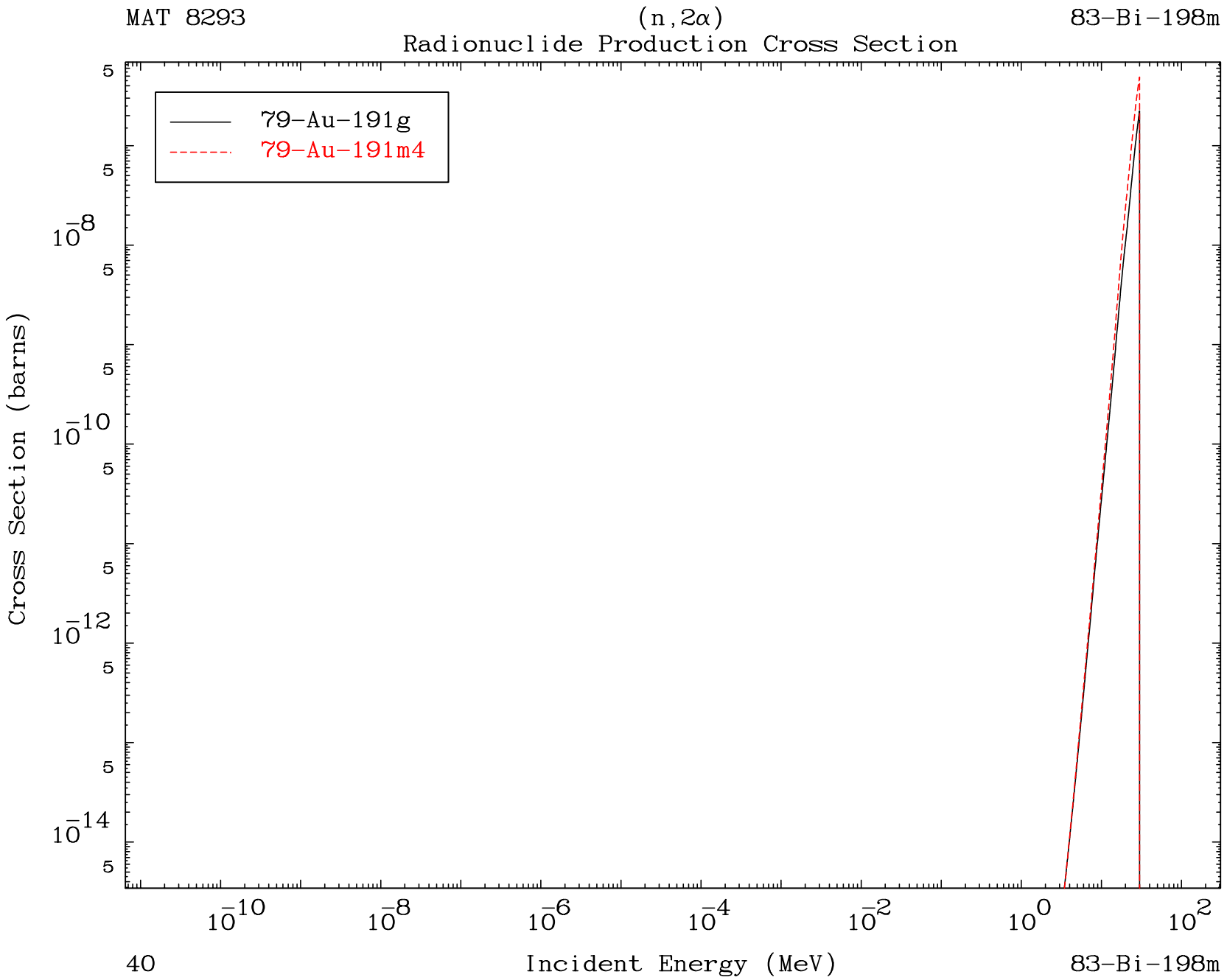

MAT 8293
(n,3n) p
83-Bi-198m
Radionuclide Production Cross Section
82-Pb-195g
82-Pb-195m2
Cross Section (barns)
10-4
10-6
10-8
10-10
2
3
4
5
6
7
8
9
10 2
2
35
Incident Energy (MeV)
83-Bi-198m

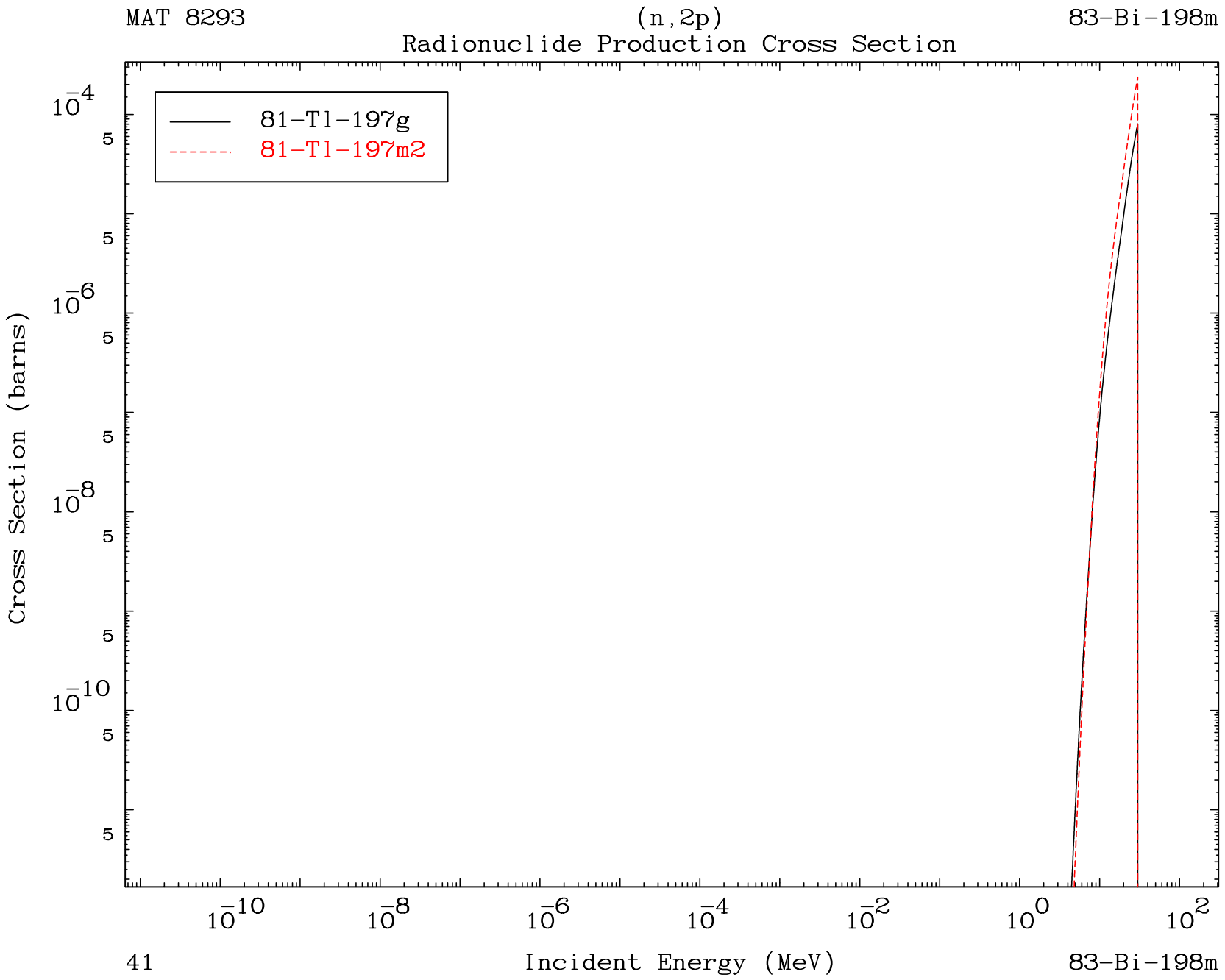

MAT 8293
(n,n') p α
83-Bi-198m
Radionuclide Production Cross Section
80-Hg-193g
80-Hg-193m3
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
36
Incident Energy (MeV)
83-Bi-198m

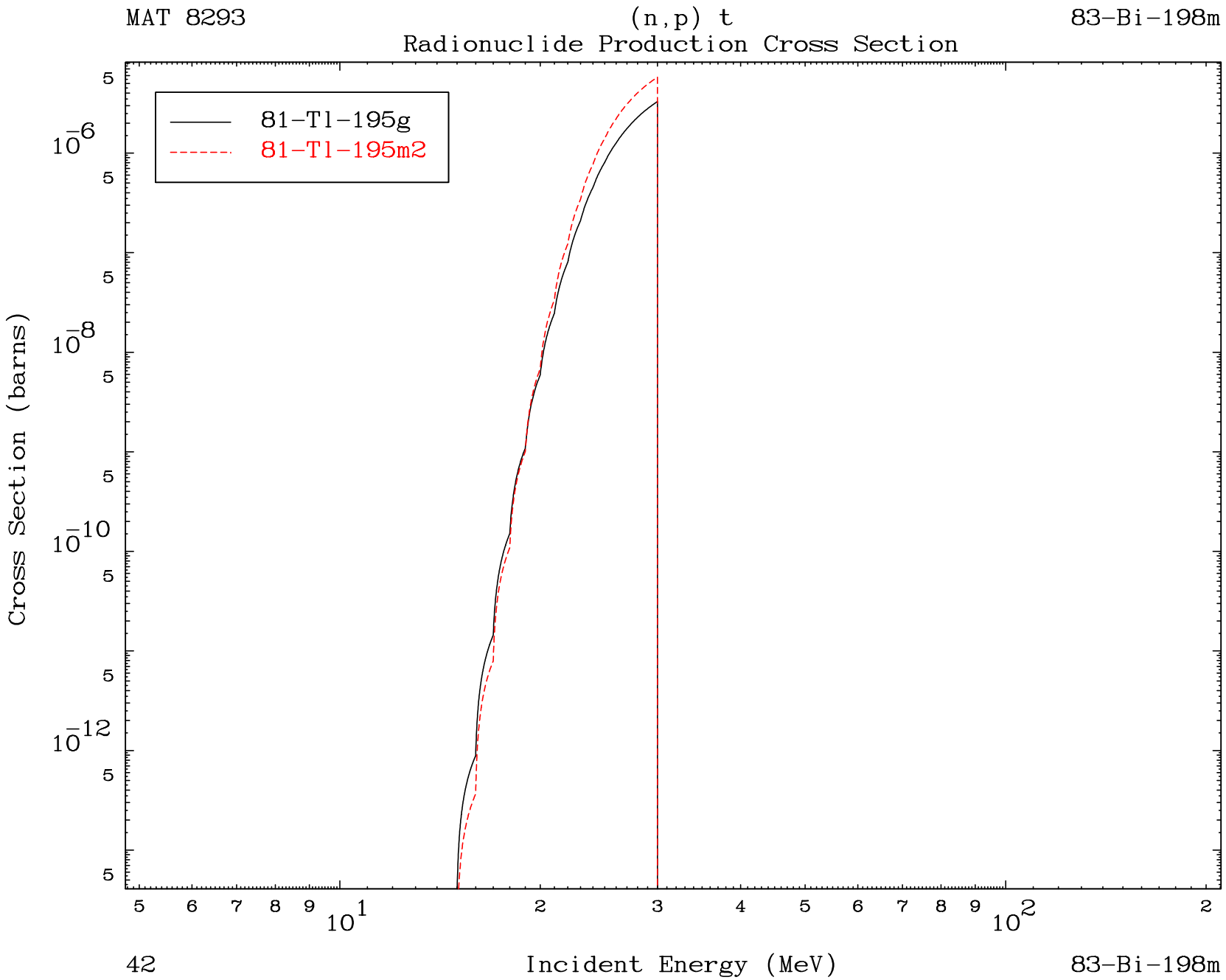

MAT 8293
(n,γ)
83-Bi-198m
Radionuclide Production Cross Section
83-Bi-199g
83-Bi-199m1
Cross Section (barns)
Incident Energy (MeV)
37
83-Bi-198m

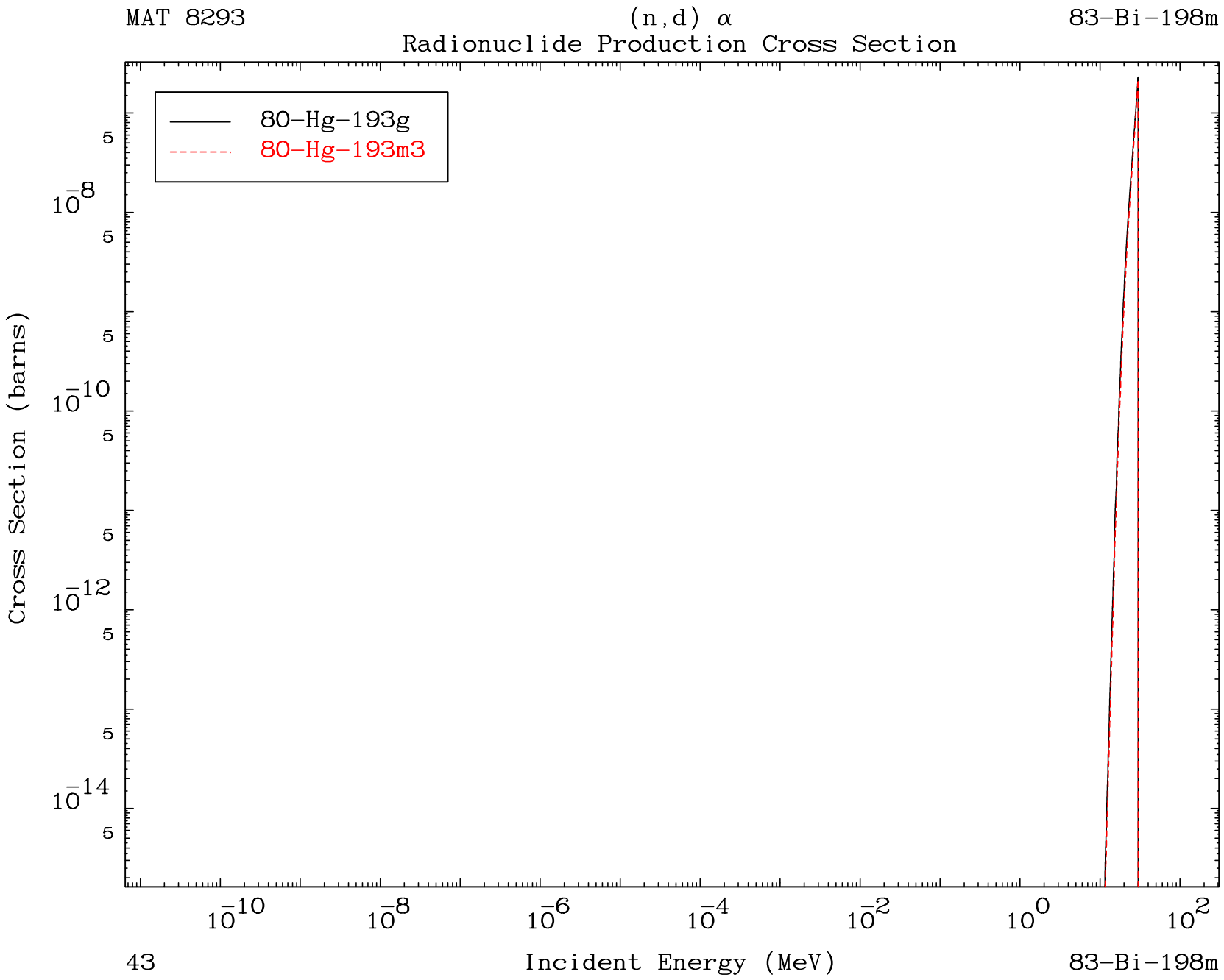

MAT 8293
(n,d)
83-Bi-198m
Radionuclide Production Cross Section
82-Pb-197g
82-Pb-197m2
Cross Section (barns)
Incident Energy (MeV)
38
83-Bi-198m


MAT 8293
(n,α)
83-Bi-198m
Radionuclide Production Cross Section
81-Tl-195g
81-Tl-195m2
Cross Section (barns)
10^0
10^-2
10^-4
10^-6
10^-8
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
39
Incident Energy (MeV)
83-Bi-198m


MAT 8293
(n,2α)
83-Bi-198m
Radionuclide Production Cross Section
79-Au-191g
79-Au-191m4
Cross Section (barns)
Incident Energy (MeV)
40
83-Bi-198m


MAT 8293
(n,2p)
83-Bi-198m
Radionuclide Production Cross Section
81-Tl-197g
81-Tl-197m2
Cross Section (barns)
Incident Energy (MeV)
41
83-Bi-198m


MAT 8293
(n,p) t
83-Bi-198m
Radionuclide Production Cross Section
81-Tl-195g
81-Tl-195m2
Cross Section (barns)
Incident Energy (MeV)
42
83-Bi-198m


MAT 8293
(n,d) α
83-Bi-198m
Radionuclide Production Cross Section
80-Hg-193g
80-Hg-193m3
Cross Section (barns)
Incident Energy (MeV)
43
83-Bi-198m