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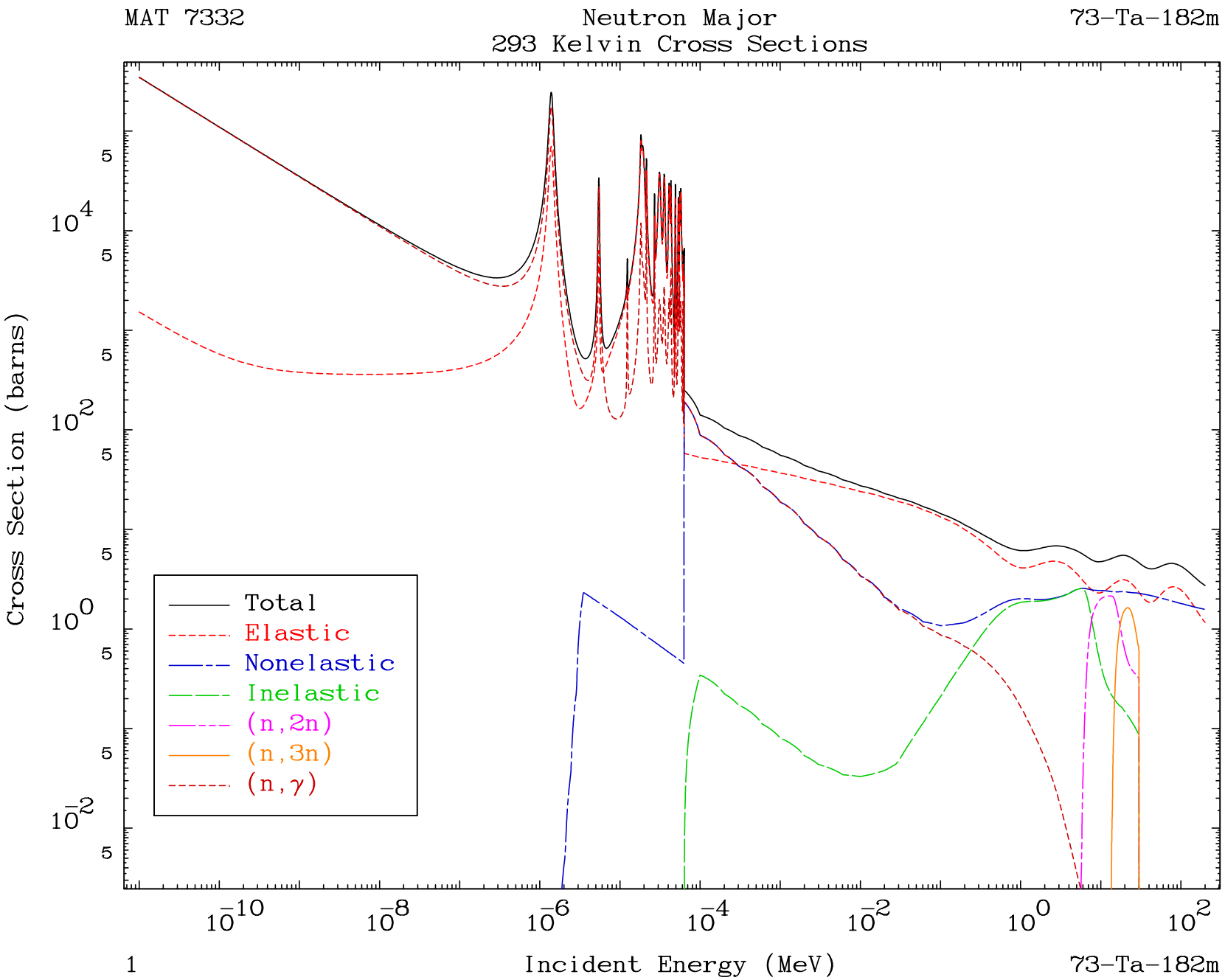
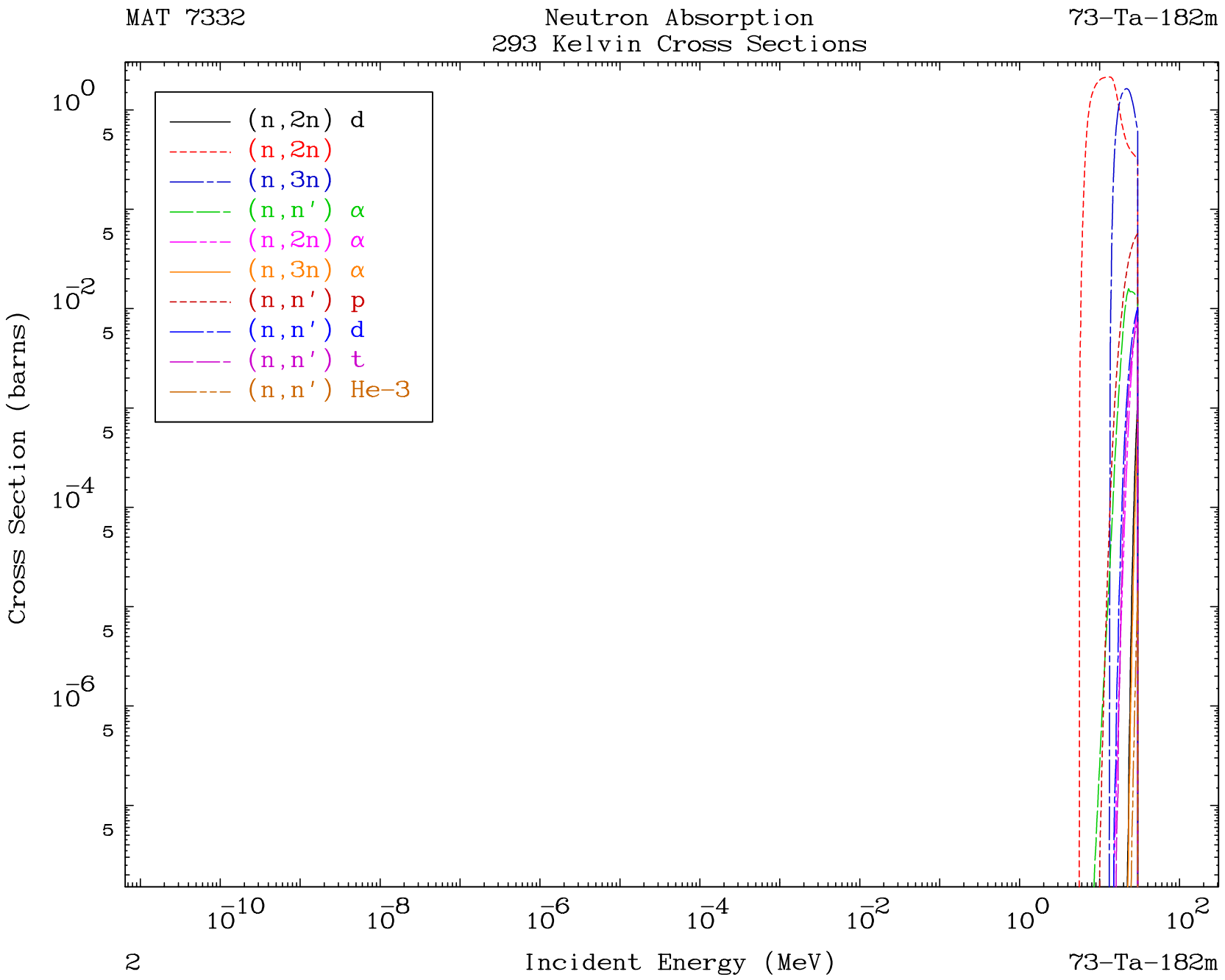
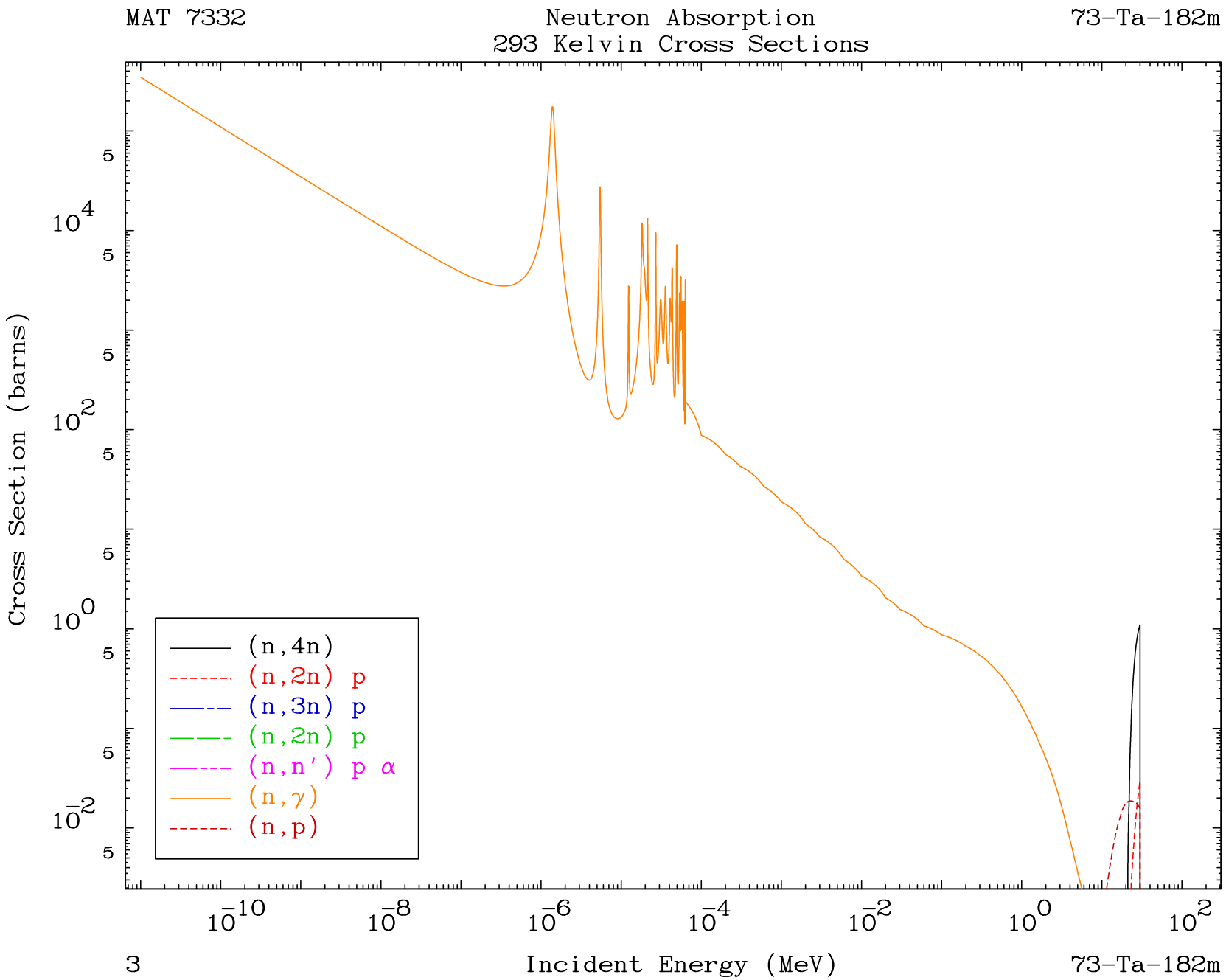
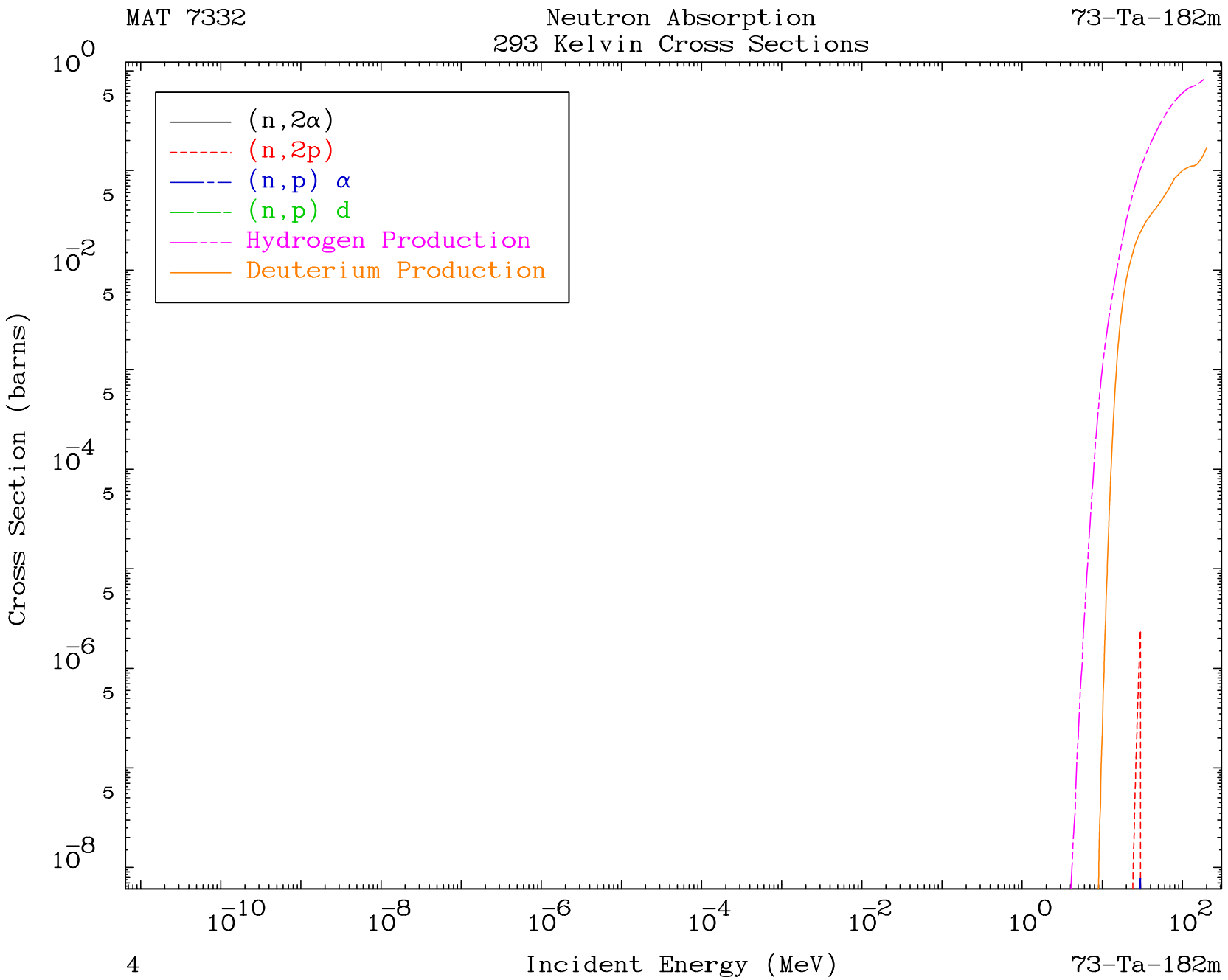
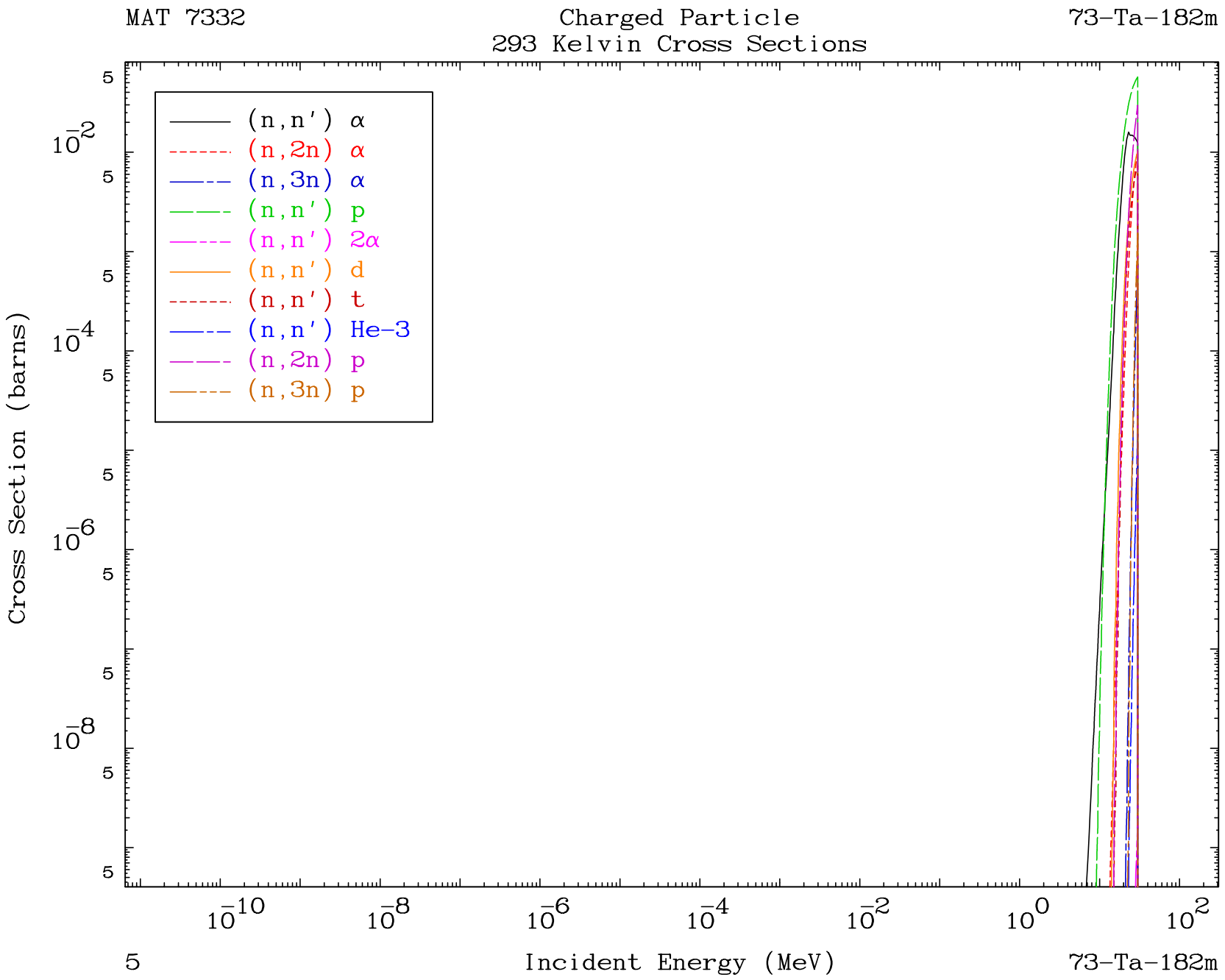
Press Mouse Button to Start

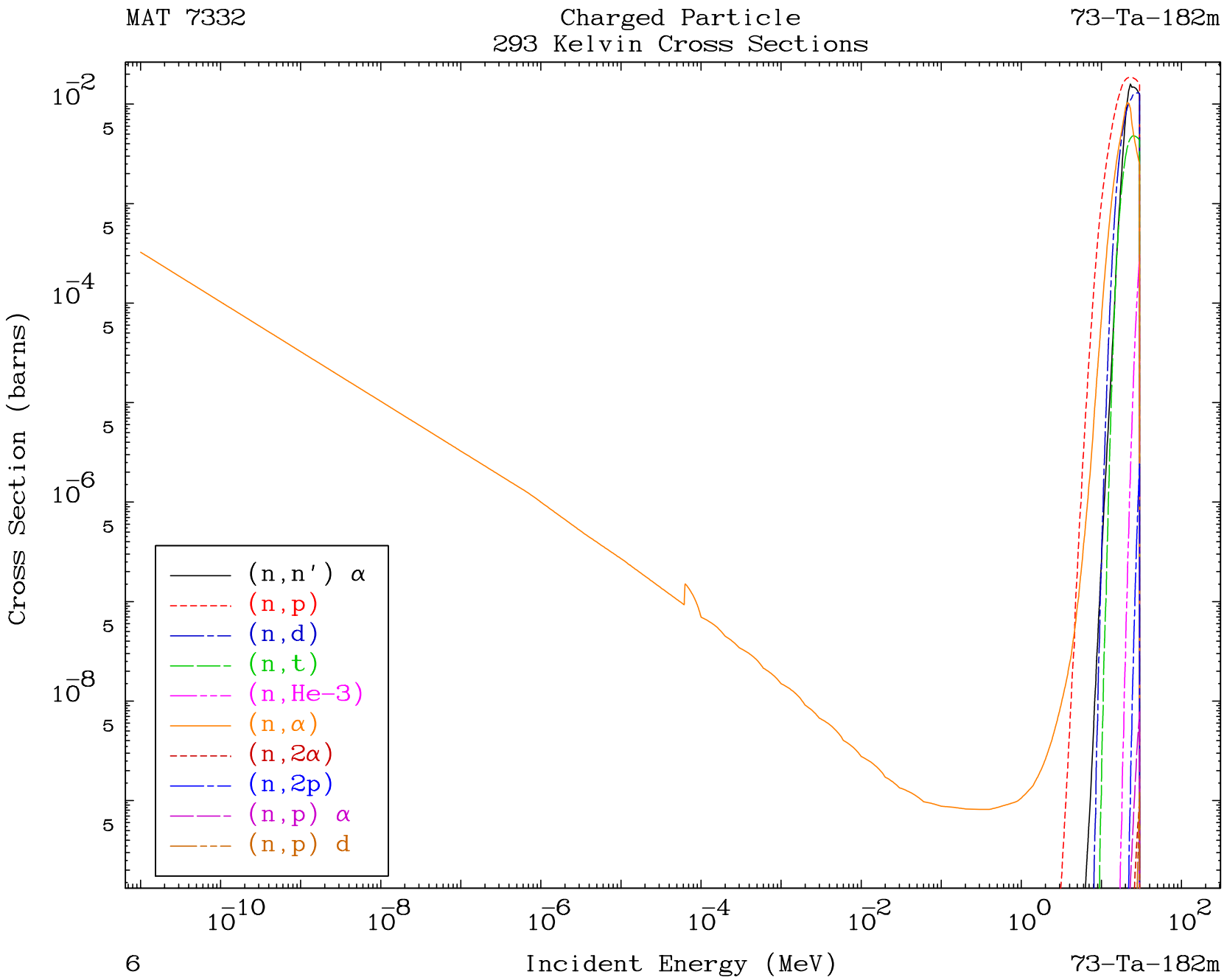

MAT 7332
Neutron Major
293 Kelvin Cross Sections
73-Ta-182m
Cross Section (barns)
Incident Energy (MeV)
Total
Elastic
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)
1
73-Ta-182m

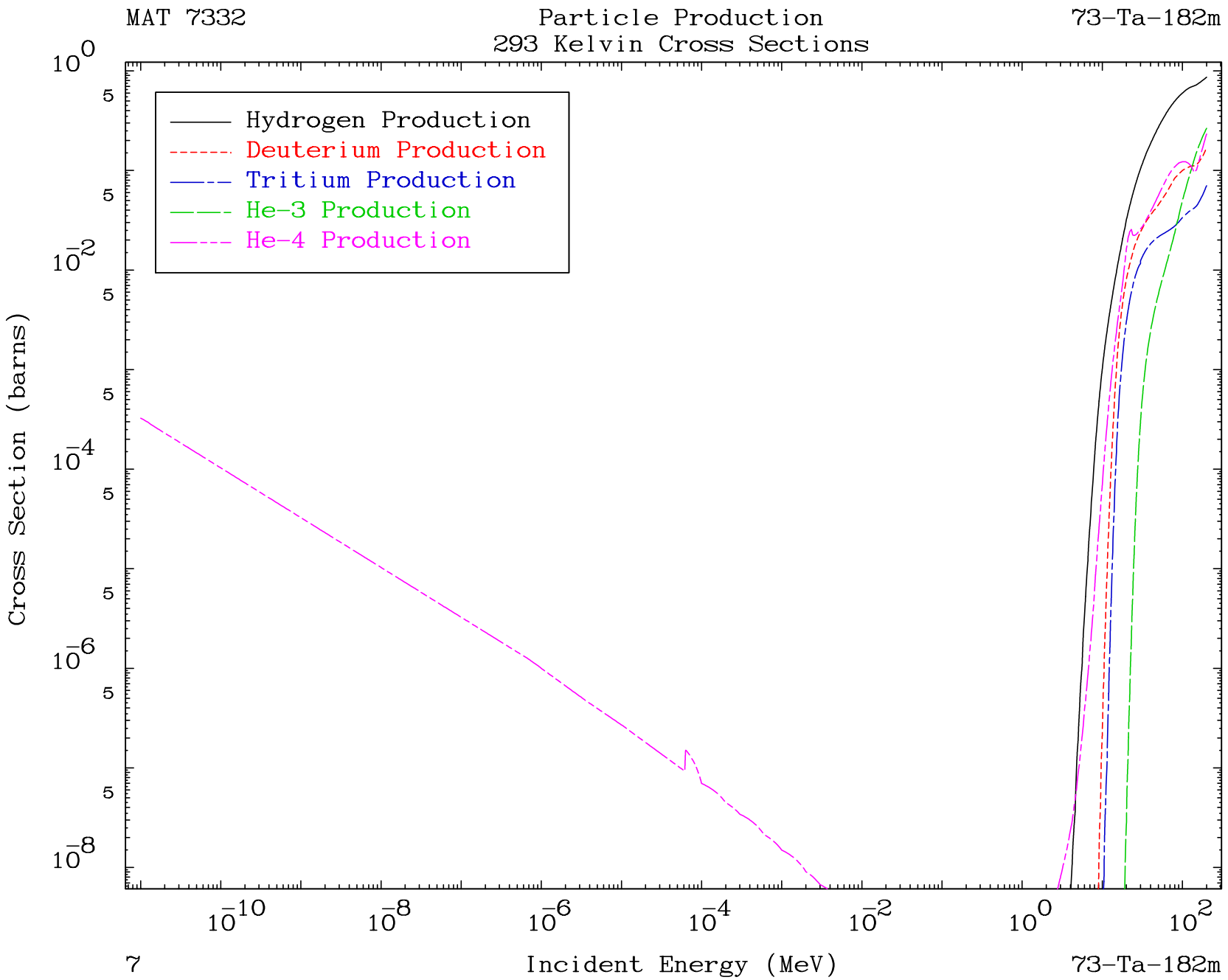

MAT 7332
Neutron Absorption
293 Kelvin Cross Sections
73-Ta-182m
(n,2n) d
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') d
(n,n') t
(n,n') He-3
Cross Section (barns)
Incident Energy (MeV)
73-Ta-182m
2

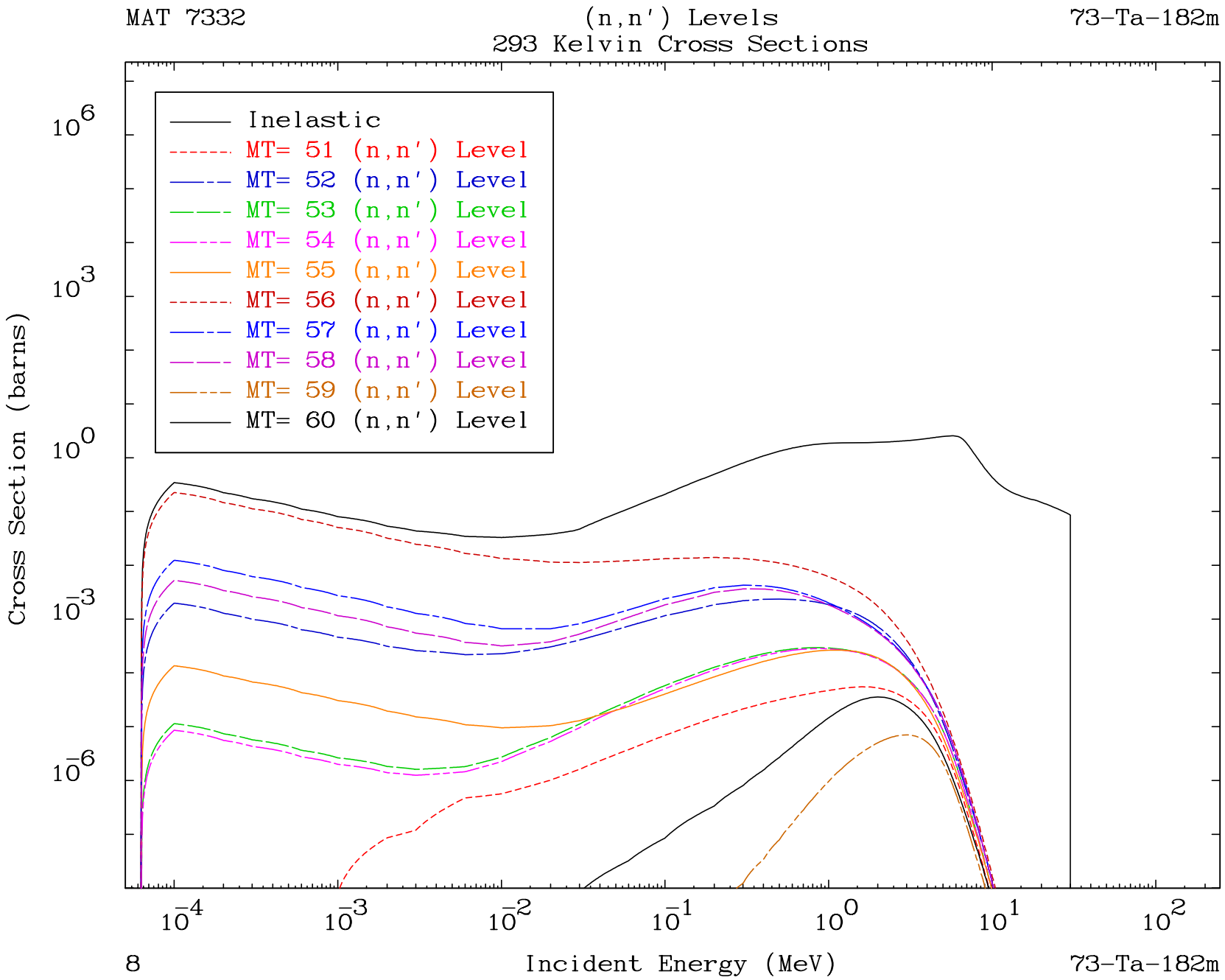

MAT 7332
Neutron Absorption
293 Kelvin Cross Sections
73-Ta-182m
Cross Section (barns)
Incident Energy (MeV)
(n,4n)
(n,2n) p
(n,3n) p
(n,2n) p
(n,n') p α
(n,γ)
(n,p)
3
73-Ta-182m

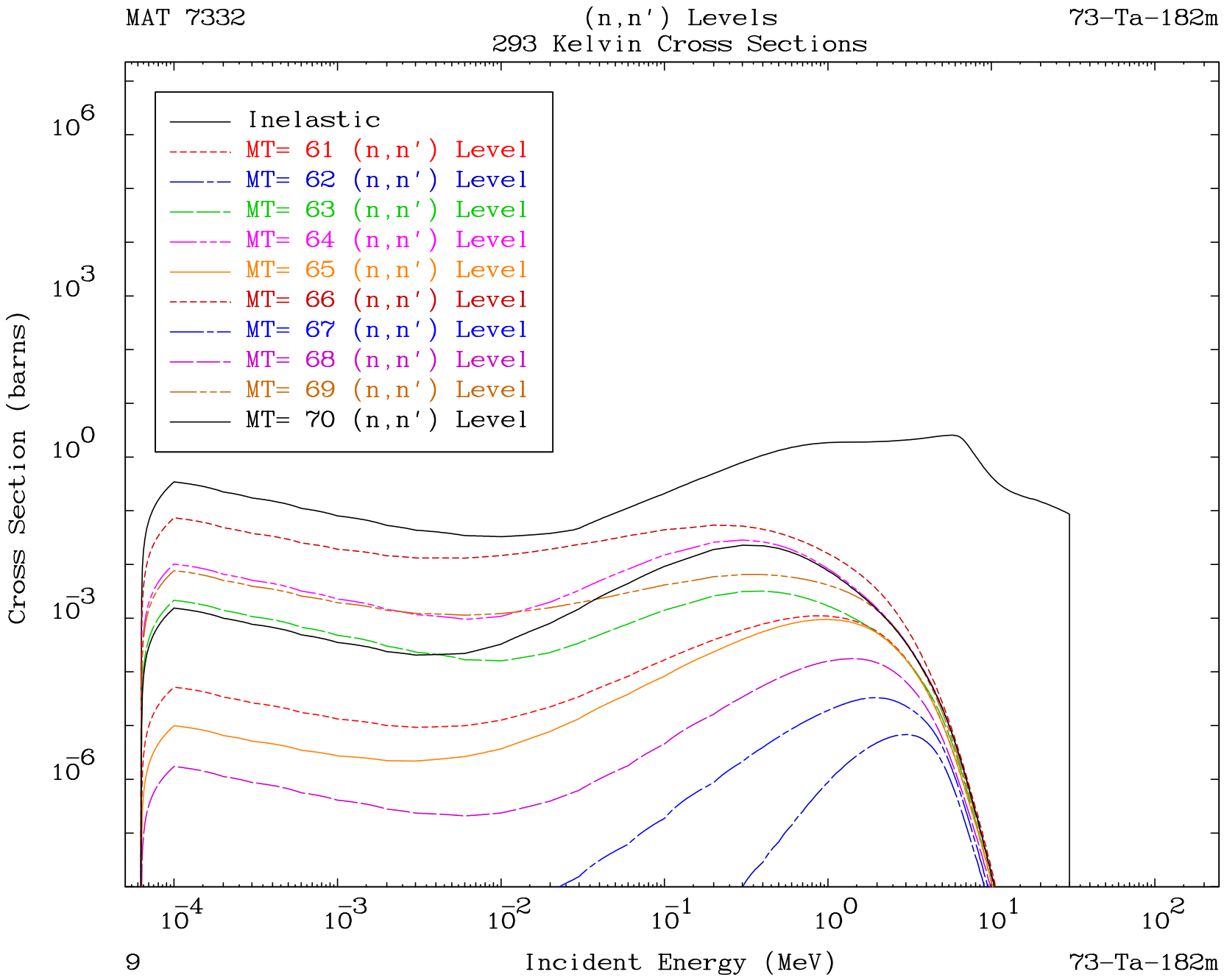

MAT 7332
Neutron Absorption
293 Kelvin Cross Sections
73-Ta-182m
(n,2α)
(n,2p)
(n,p) α
(n,p) d
Hydrogen Production
Deuterium Production
Cross Section (barns)
Incident Energy (MeV)
73-Ta-182m
4

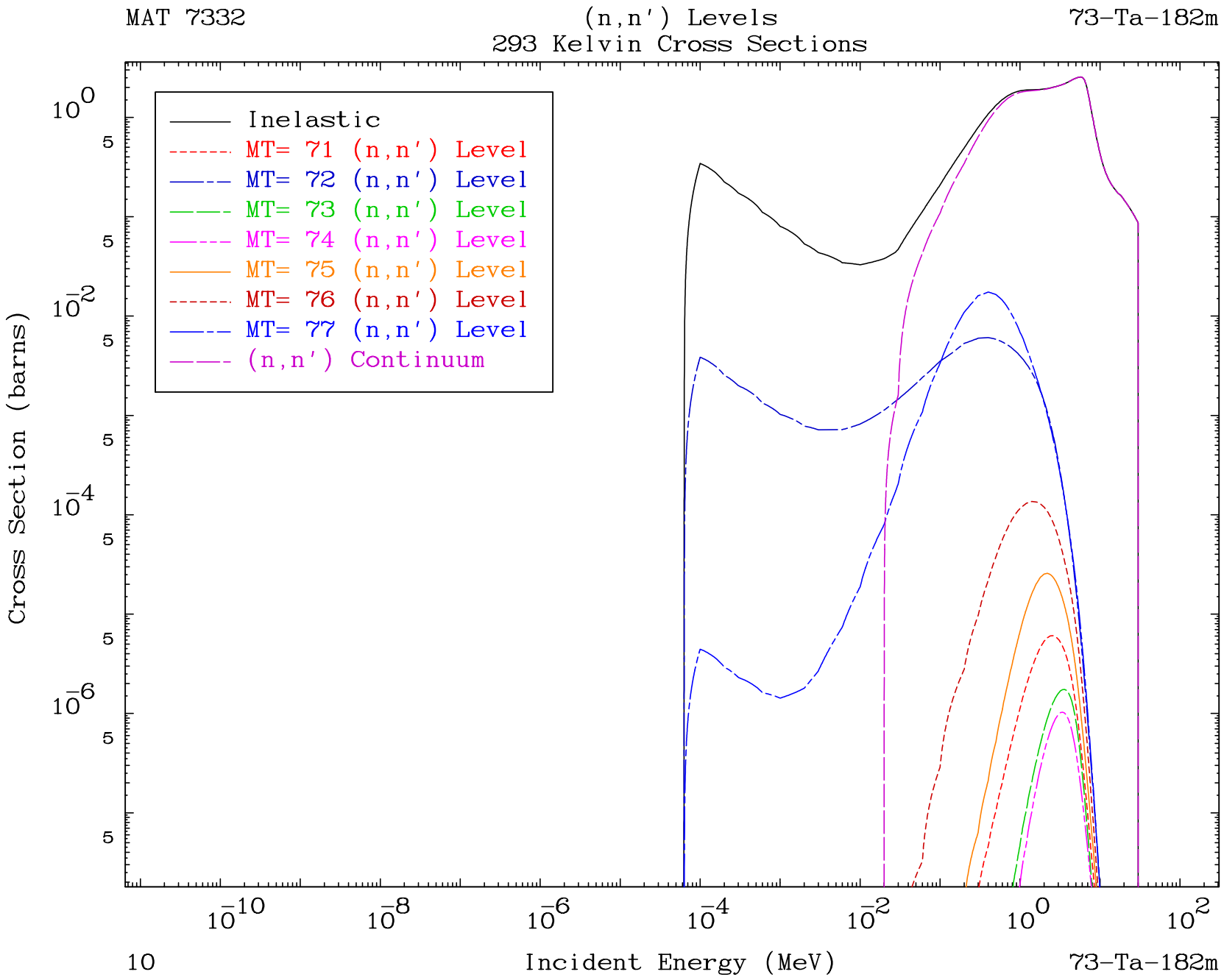

MAT 7332
Charged Particle
293 Kelvin Cross Sections
73-Ta-182m
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
(n,3n) p
Cross Section (barns)
Incident Energy (MeV)
73-Ta-182m

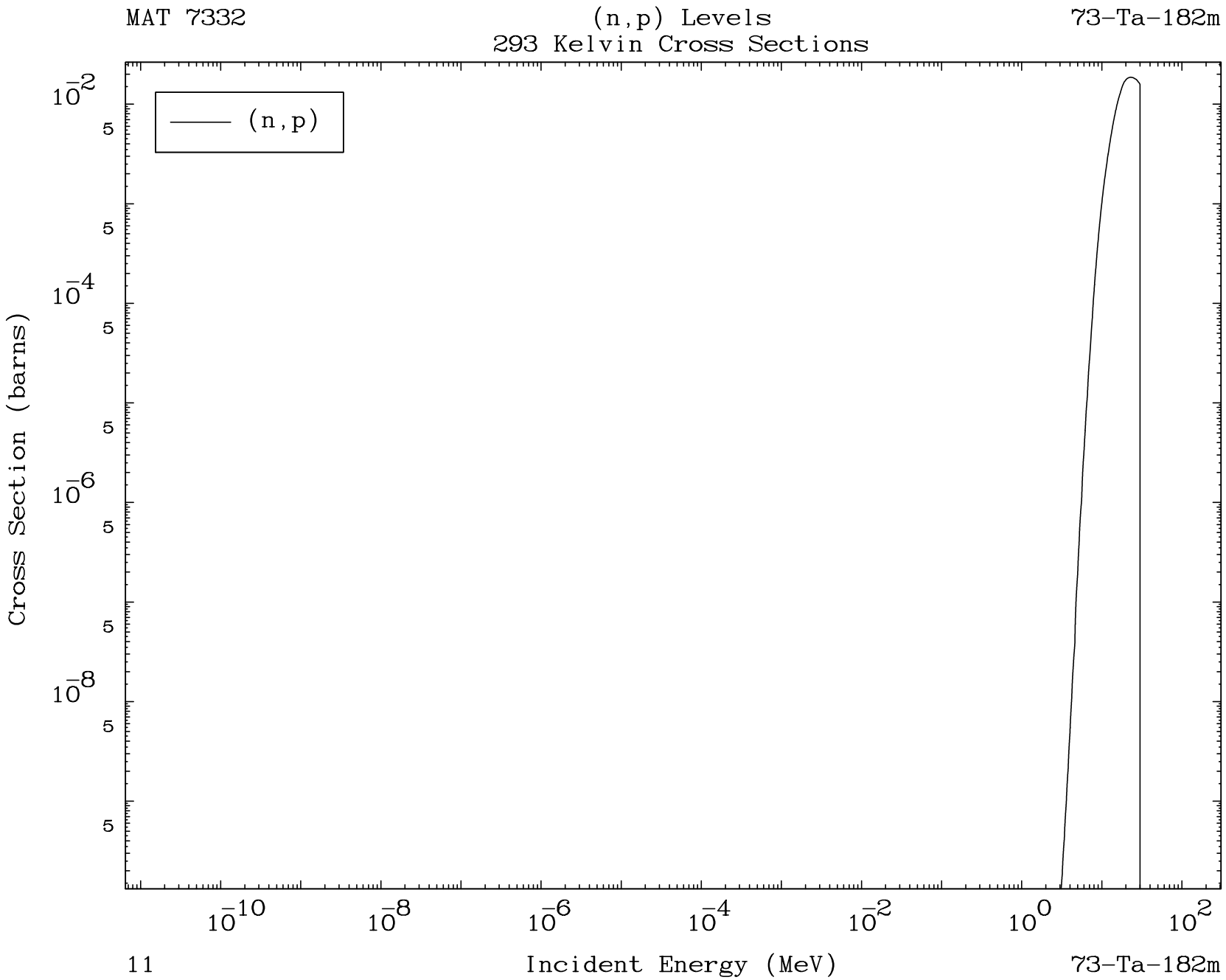

MAT 7332
Charged Particle
293 Kelvin Cross Sections
73-Ta-182m
Cross Section (barns)
Incident Energy (MeV)
(n,n') α
(n,p)
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
6
73-Ta-182m

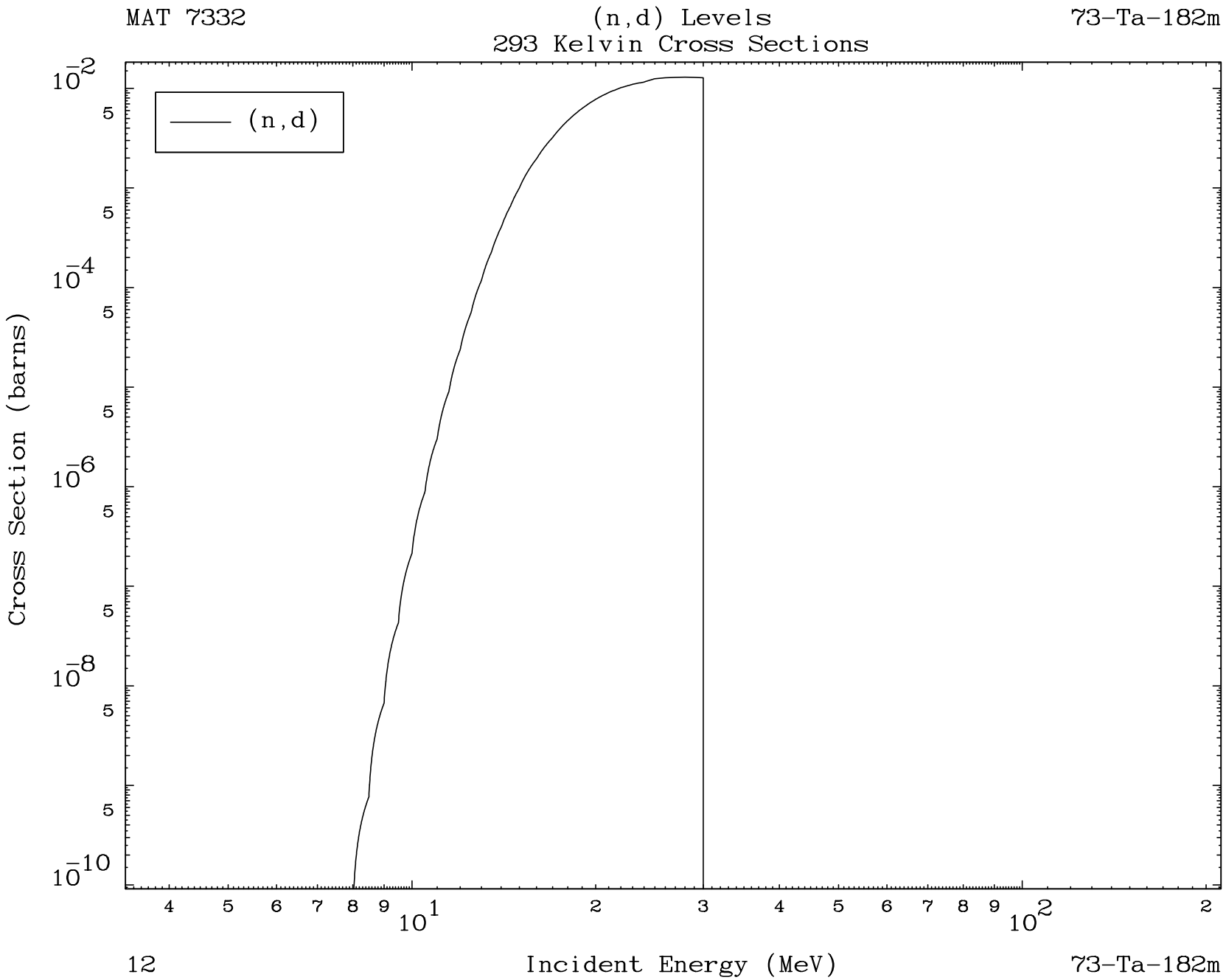

MAT 7332
Particle Production
293 Kelvin Cross Sections
73-Ta-182m
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production
Cross Section (barns)
Incident Energy (MeV)
7
73-Ta-182m

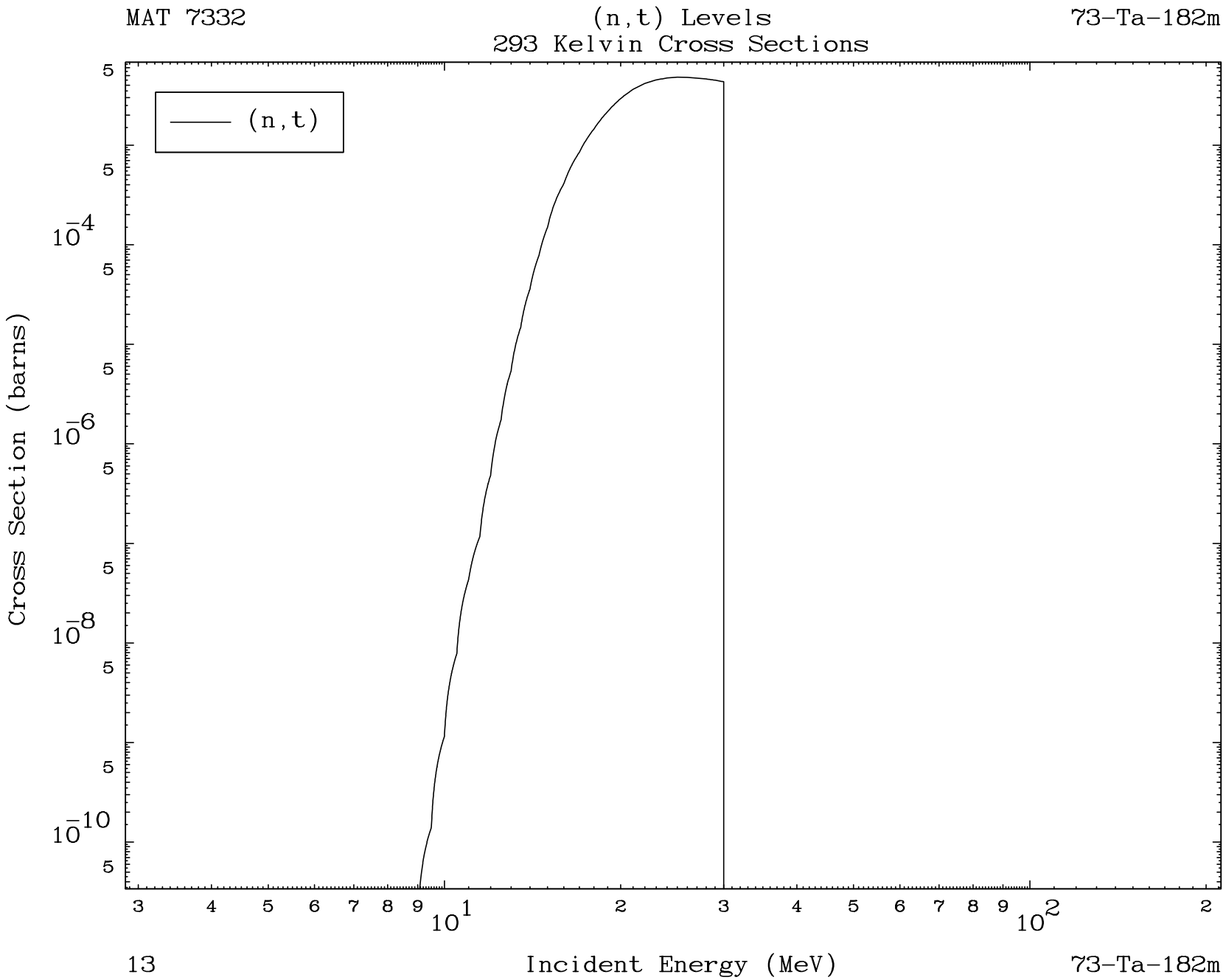

MAT 7332
(n,n') Levels
293 Kelvin Cross Sections
73-Ta-182m
Inelastic
MT= 51 (n,n') Level
MT= 52 (n,n') Level
MT= 53 (n,n') Level
MT= 54 (n,n') Level
MT= 55 (n,n') Level
MT= 56 (n,n') Level
MT= 57 (n,n') Level
MT= 58 (n,n') Level
MT= 59 (n,n') Level
MT= 60 (n,n') Level
Cross Section (barns)
10^6
10^3
10^0
10^-3
10^-6
10^-4
10^-3
10^-2
10^-1
10^0
10^1
10^2
Incident Energy (MeV)
8
73-Ta-182m

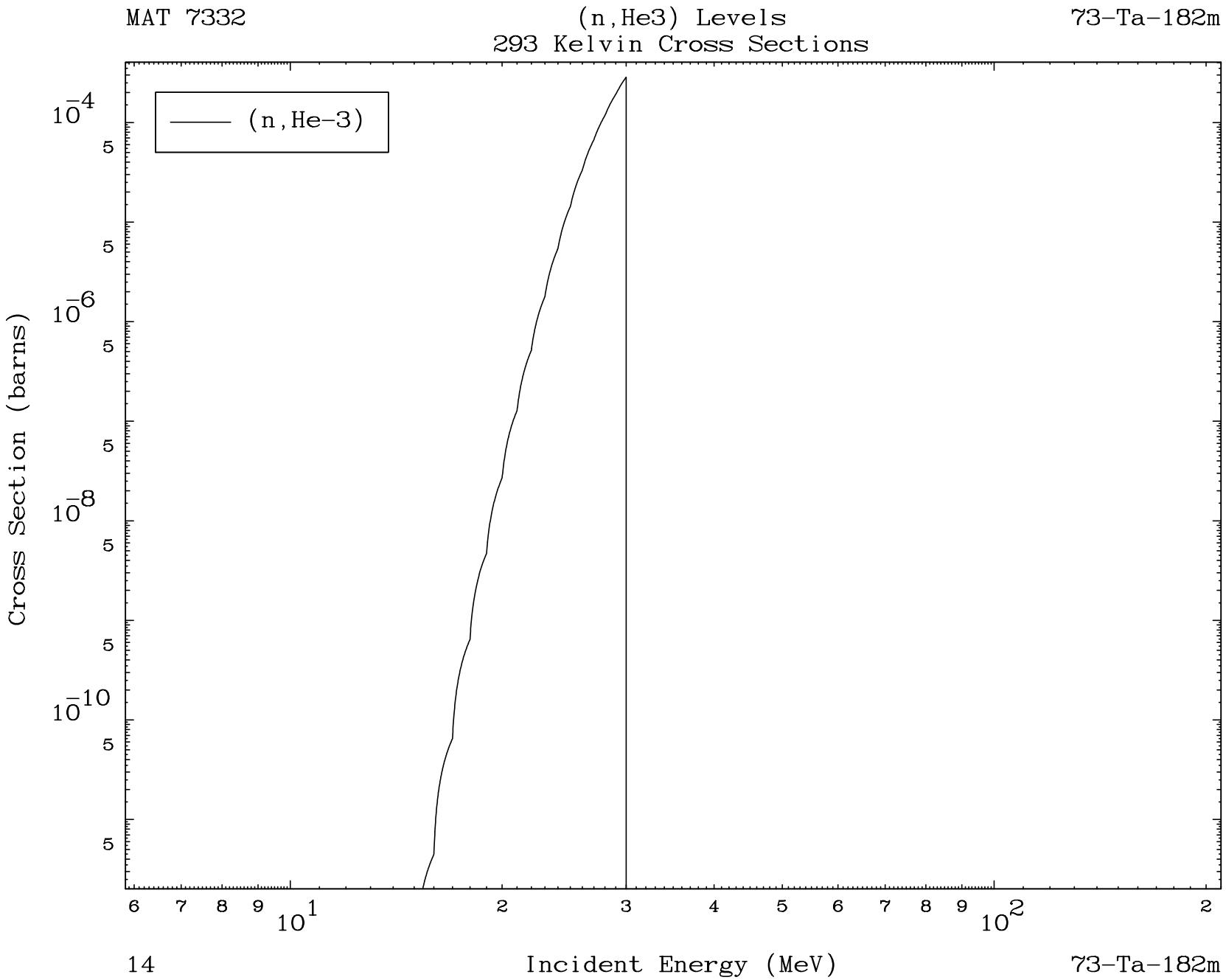

MAT 7332
(n,n') Levels
293 Kelvin Cross Sections
73-Ta-182m
Inelastic
MT= 61 (n,n') Level
MT= 62 (n,n') Level
MT= 63 (n,n') Level
MT= 64 (n,n') Level
MT= 65 (n,n') Level
MT= 66 (n,n') Level
MT= 67 (n,n') Level
MT= 68 (n,n') Level
MT= 69 (n,n') Level
MT= 70 (n,n') Level
Cross Section (barns)
10^6
10^3
10^0
10^-3
10^-6
10^-4
10^-3
10^-2
10^-1
10^0
10^1
10^2
Incident Energy (MeV)
9
73-Ta-182m

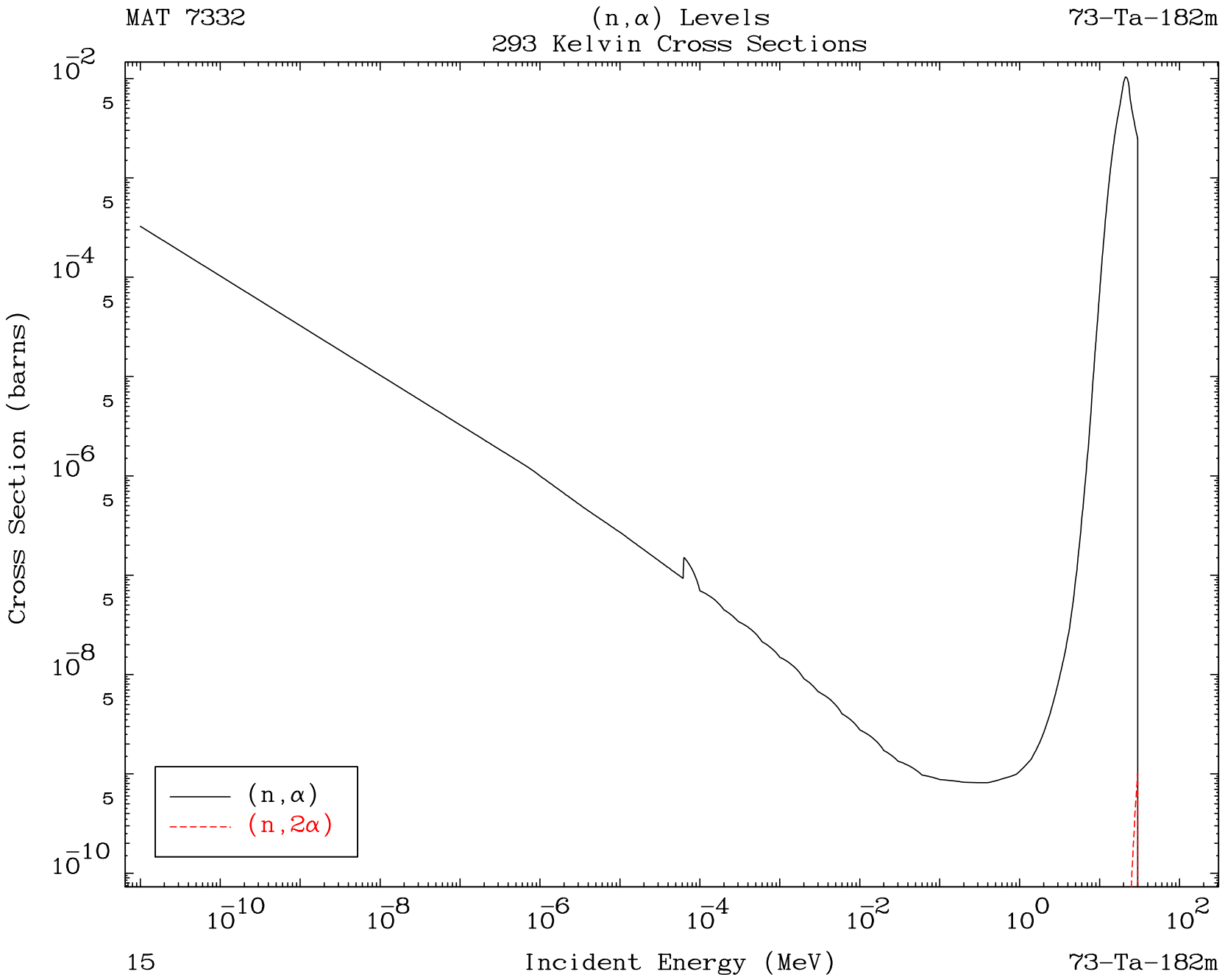

MAT 7332
(n,n') Levels
293 Kelvin Cross Sections
73-Ta-182m
Inelastic
MT= 71 (n,n') Level
MT= 72 (n,n') Level
MT= 73 (n,n') Level
MT= 74 (n,n') Level
MT= 75 (n,n') Level
MT= 76 (n,n') Level
MT= 77 (n,n') Level
(n,n') Continuum
Cross Section (barns)
Incident Energy (MeV)
73-Ta-182m

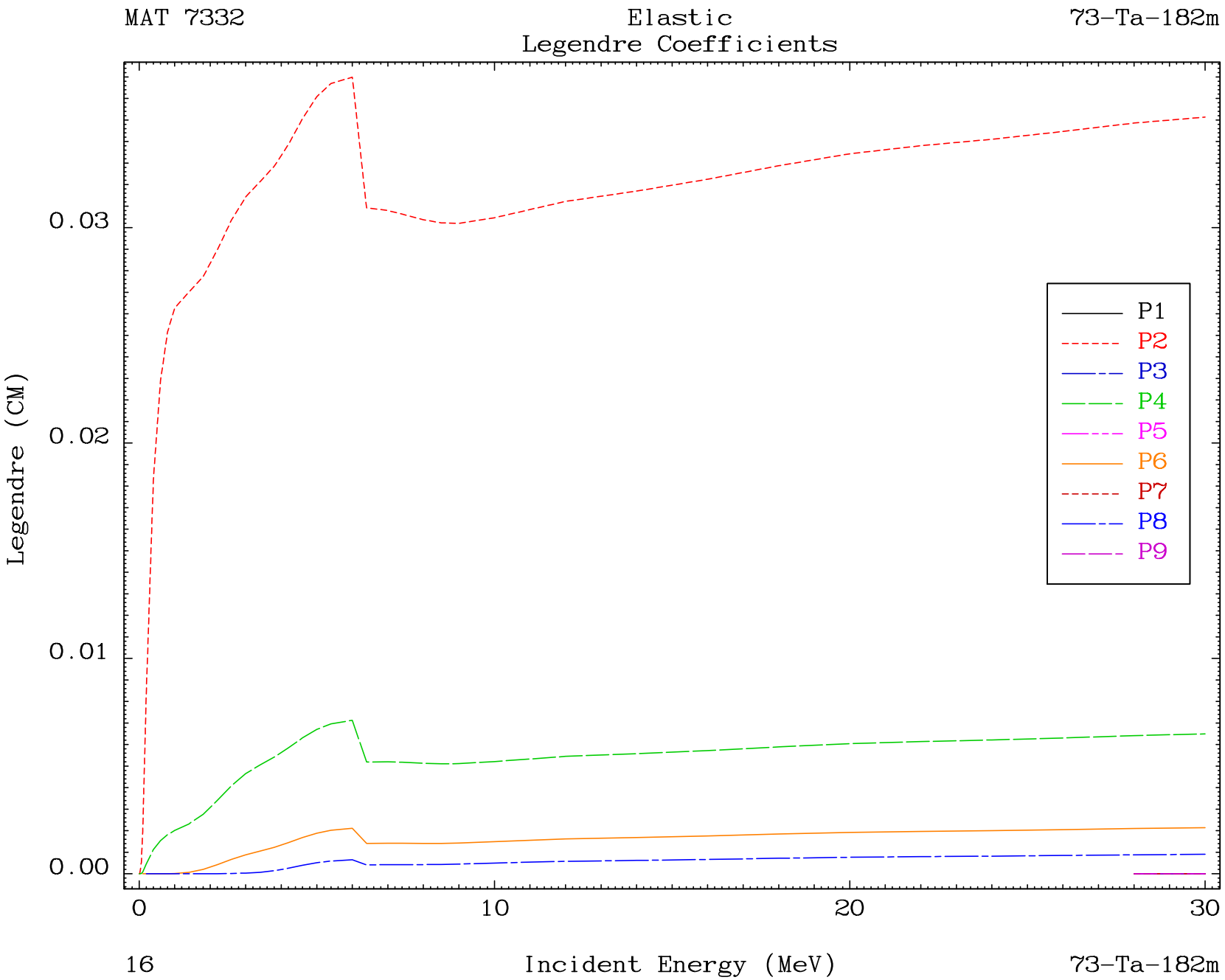

MAT 7332
(n,p) Levels
293 Kelvin Cross Sections
73-Ta-182m
(n,p)
Cross Section (barns)
Incident Energy (MeV)
11
73-Ta-182m

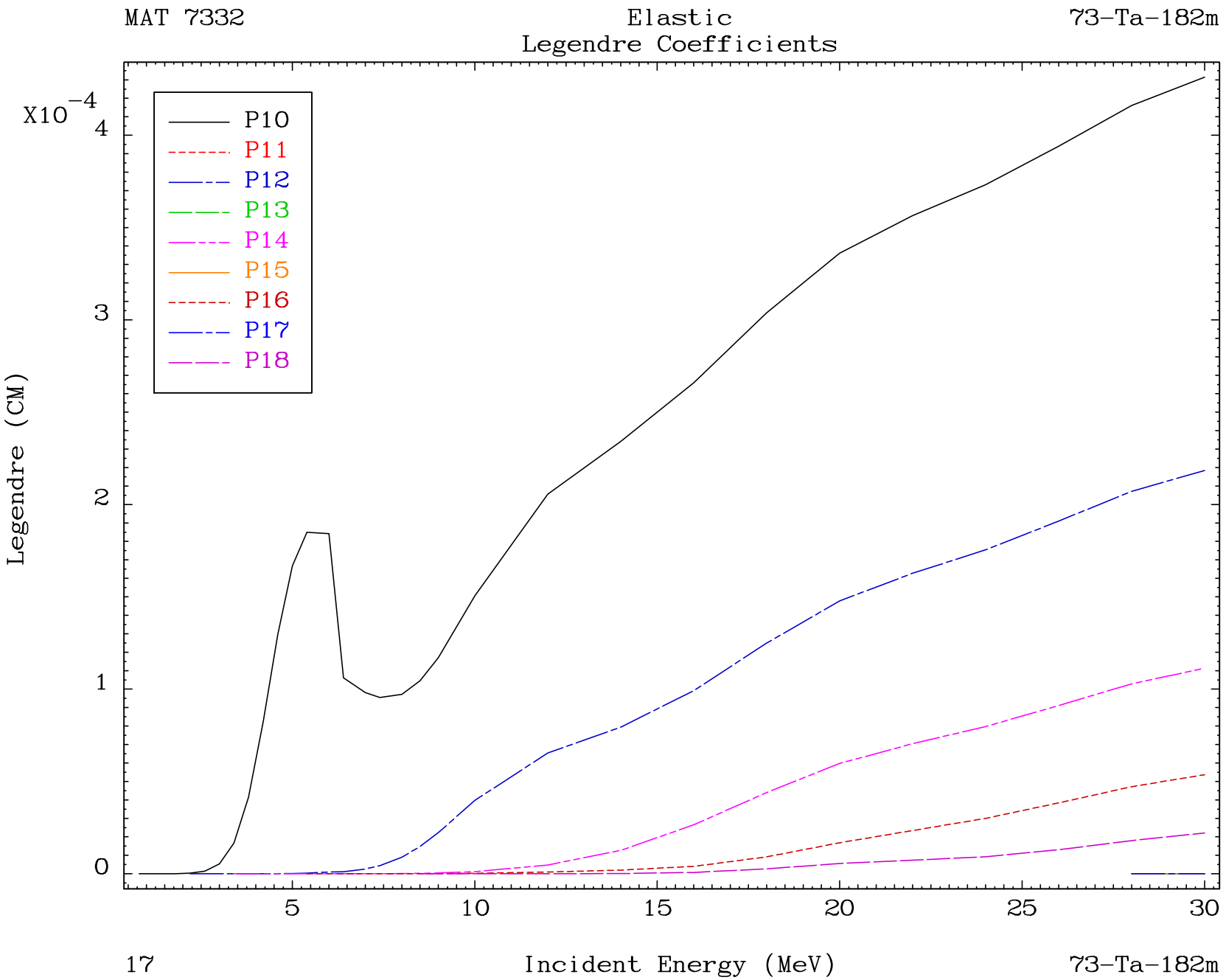

MAT 7332
(n,d) Levels
73-Ta-182m
293 Kelvin Cross Sections
(n,d)
Cross Section (barns)
Incident Energy (MeV)
12
73-Ta-182m

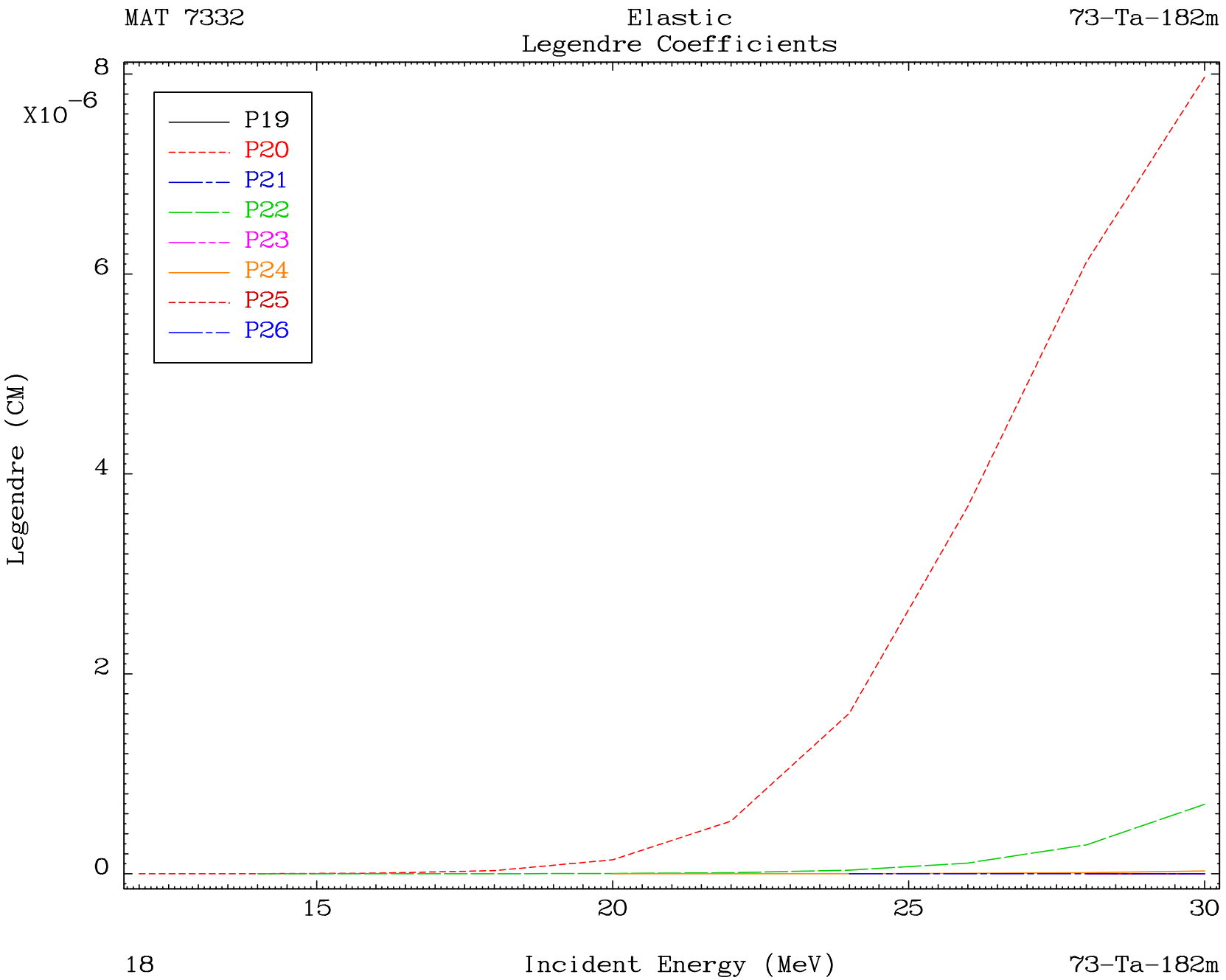

MAT 7332
(n,t) Levels
73-Ta-182m
293 Kelvin Cross Sections
(n,t)
Cross Section (barns)
Incident Energy (MeV)
13
73-Ta-182m

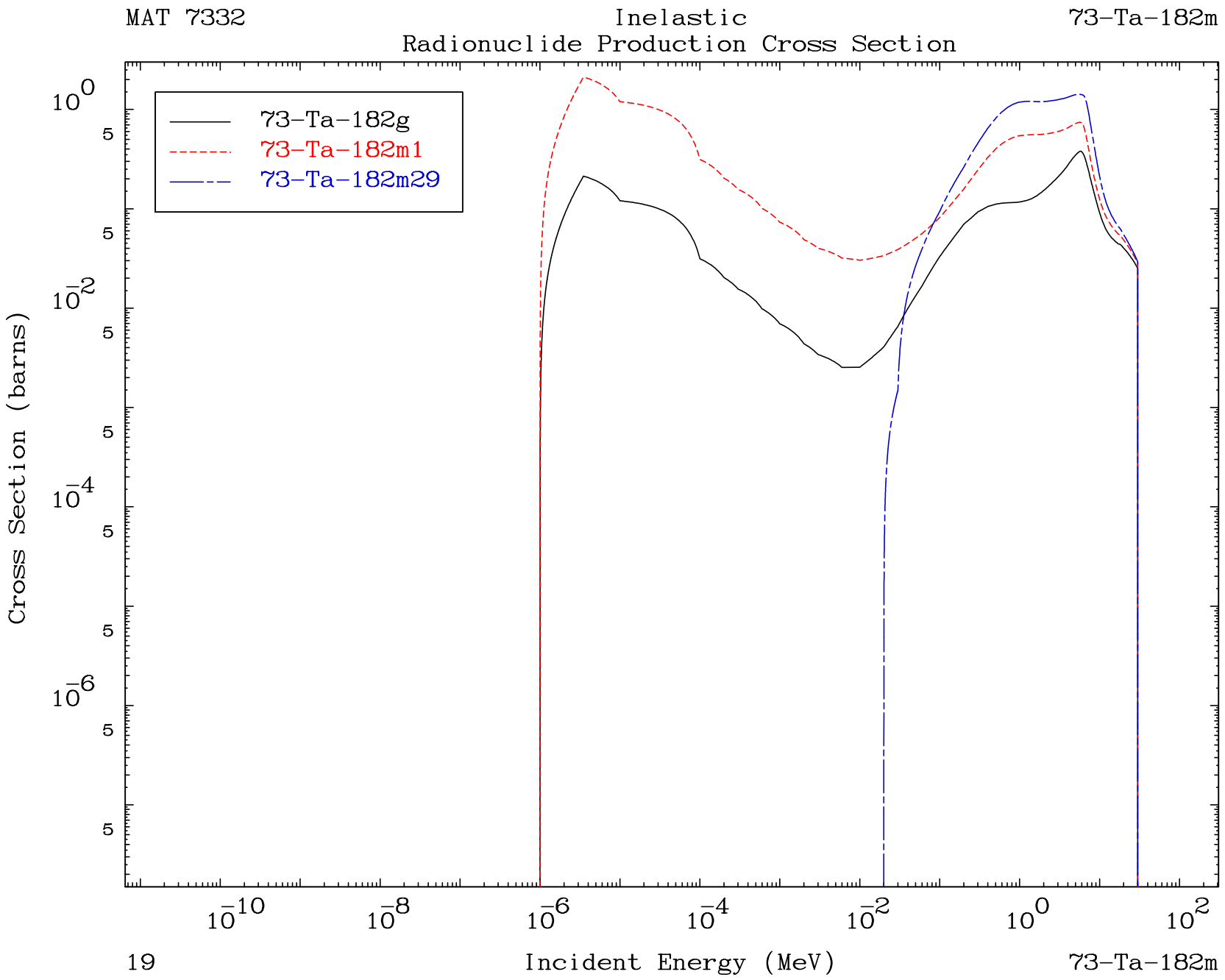

MAT 7332
(n,He3) Levels
73-Ta-182m
293 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
6 7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
Incident Energy (MeV)
14
73-Ta-182m

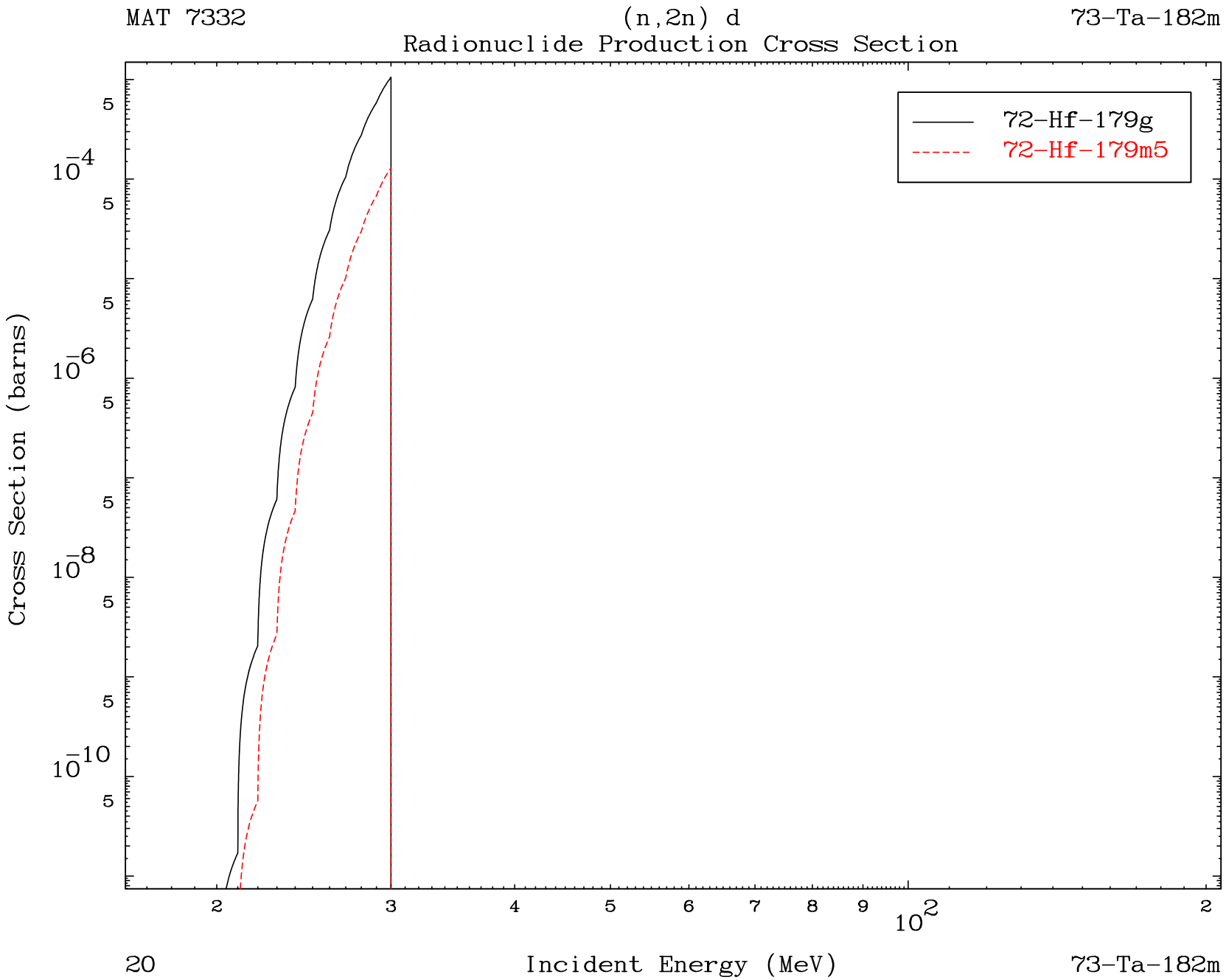

MAT 7332
(n,α) Levels
293 Kelvin Cross Sections
73-Ta-182m
Cross Section (barns)
10-2
5
10-4
5
10-6
5
10-8
5
10-10
5
(n,α)
(n,2α)
10-10
10-8
10-6
10-4
10-2
100
102
15
Incident Energy (MeV)
73-Ta-182m

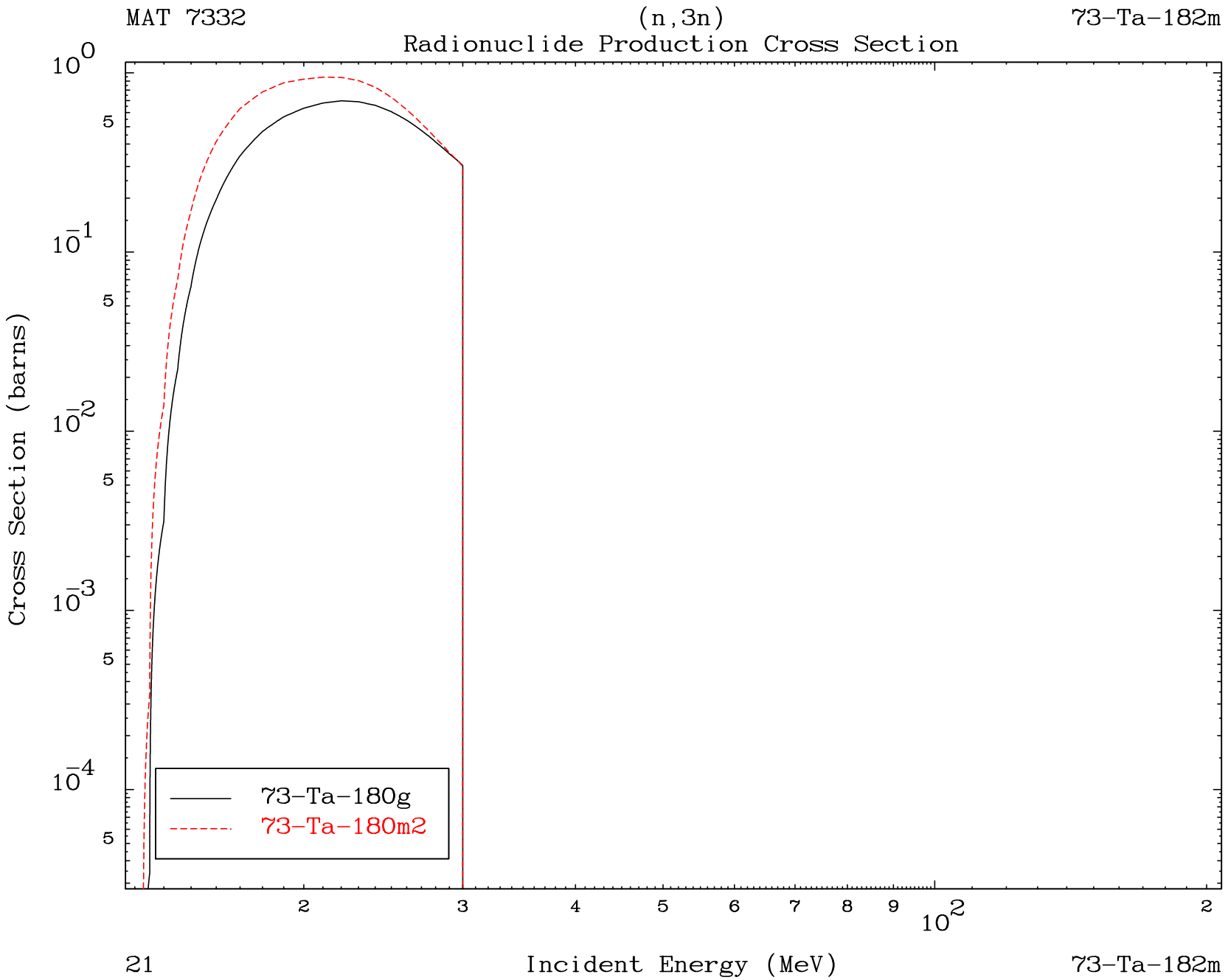

MAT 7332
Elastic
Legendre Coefficients
73-Ta-182m
Legendre (CM)
0.03
0.02
0.01
0.00
0
10
20
30
16
Incident Energy (MeV)
73-Ta-182m
P1
P2
P3
P4
P5
P6
P7
P8
P9

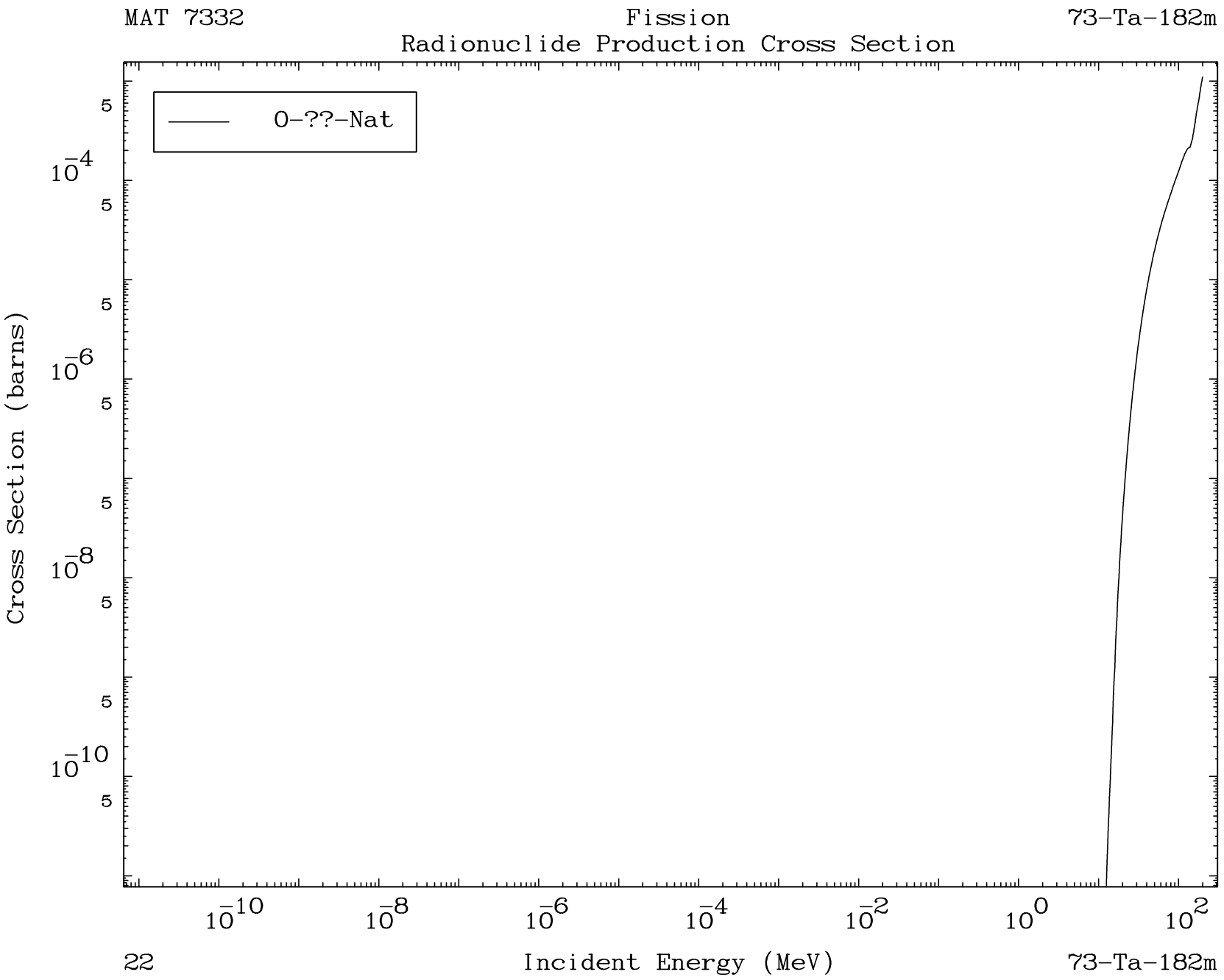

MAT 7332
Elastic
Legendre Coefficients
73-Ta-182m
X10 -4
4
3
2
1
0
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
5
10
15
20
25
30
17
Incident Energy (MeV)
73-Ta-182m

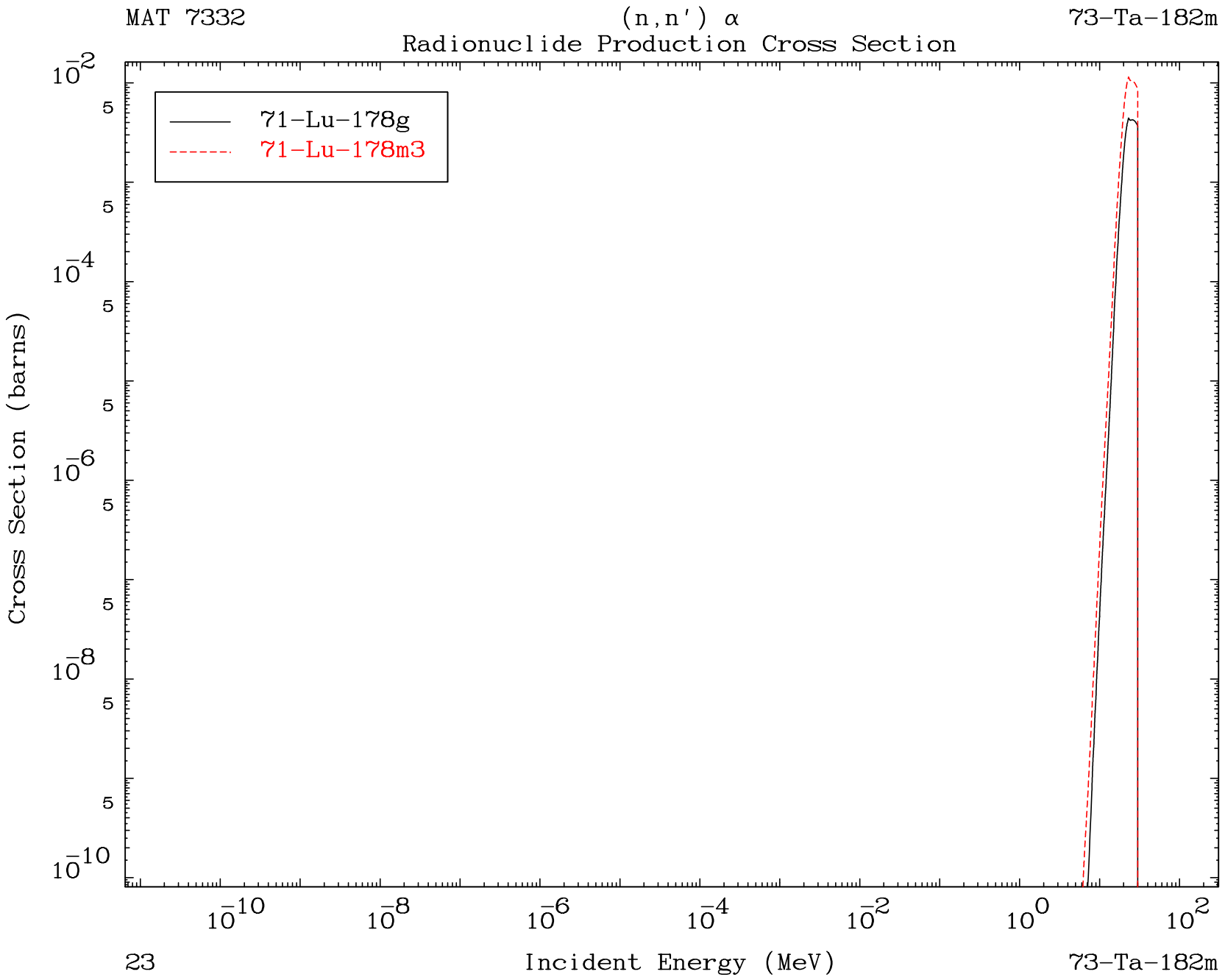

MAT 7332
Elastic
Legendre Coefficients
73-Ta-182m
X10 −6
8
6
4
2
0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
15
20
25
30
18
Incident Energy (MeV)
73-Ta-182m

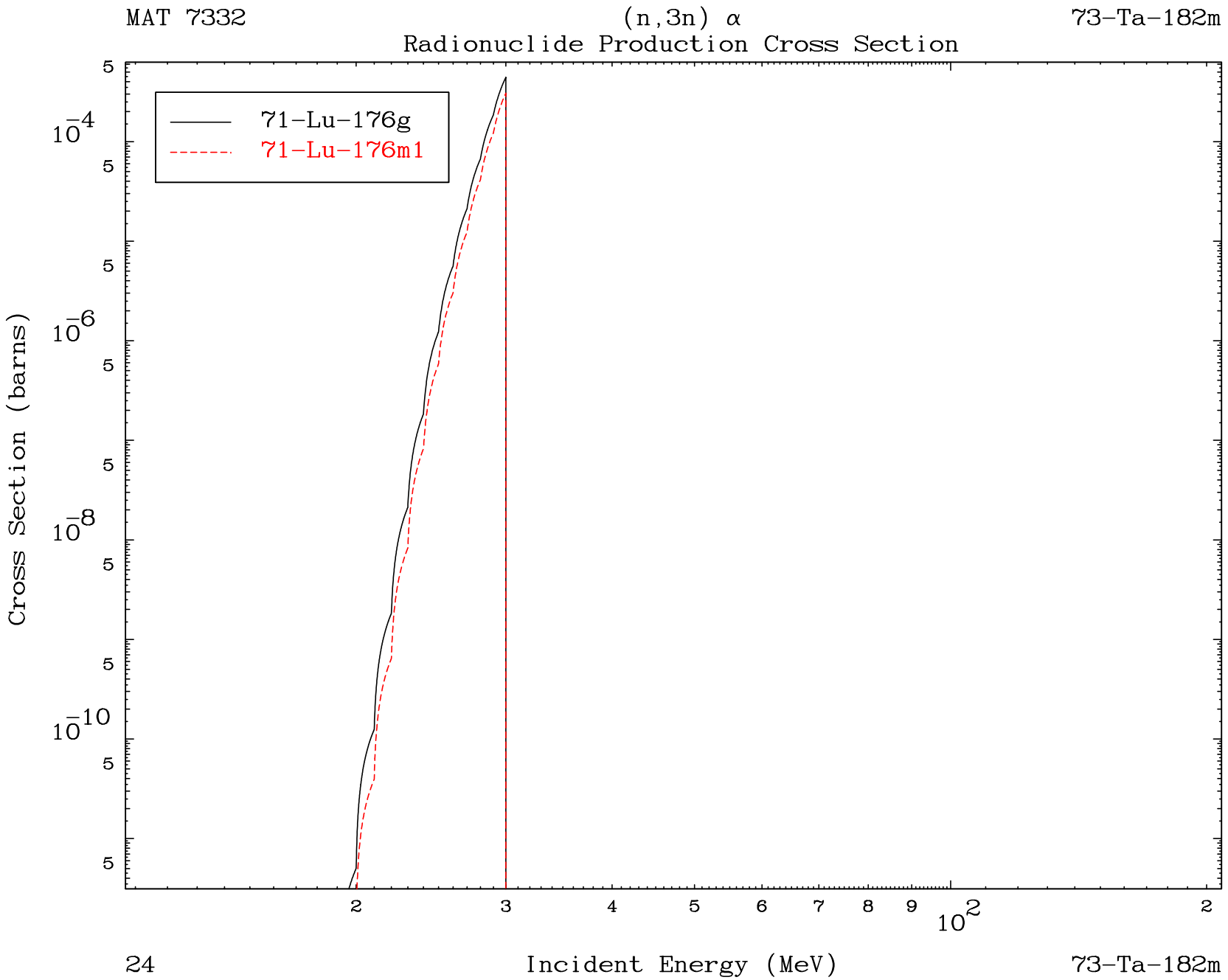

MAT 7332
Inelastic
73-Ta-182m
Radionuclide Production Cross Section
73-Ta-182g
73-Ta-182m1
73-Ta-182m29
Cross Section (barns)
Incident Energy (MeV)
19
73-Ta-182m

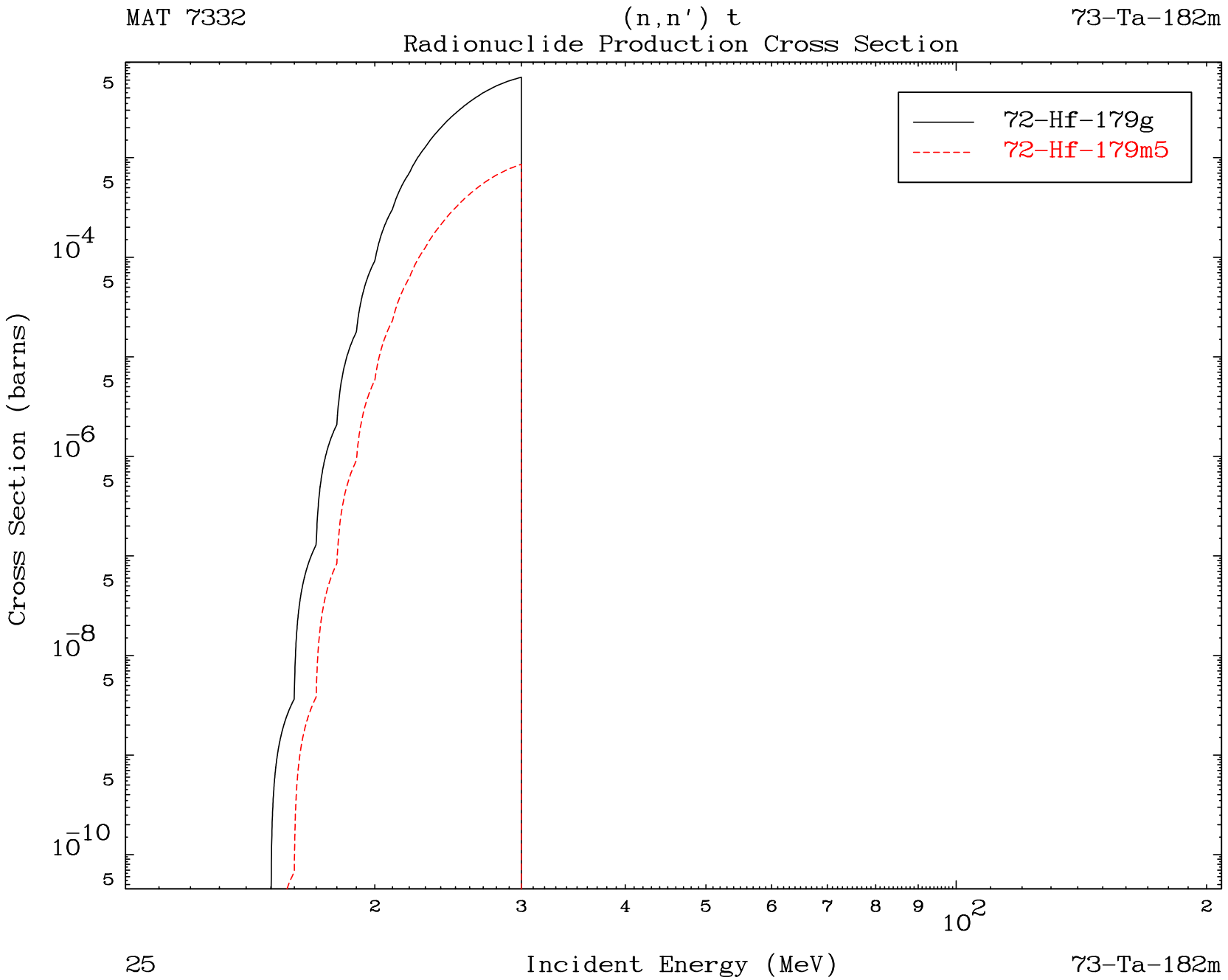

MAT 7332
(n,2n) d
73-Ta-182m
Radionuclide Production Cross Section
72-Hf-179g
72-Hf-179m5
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
Incident Energy (MeV)
10^2
20
73-Ta-182m

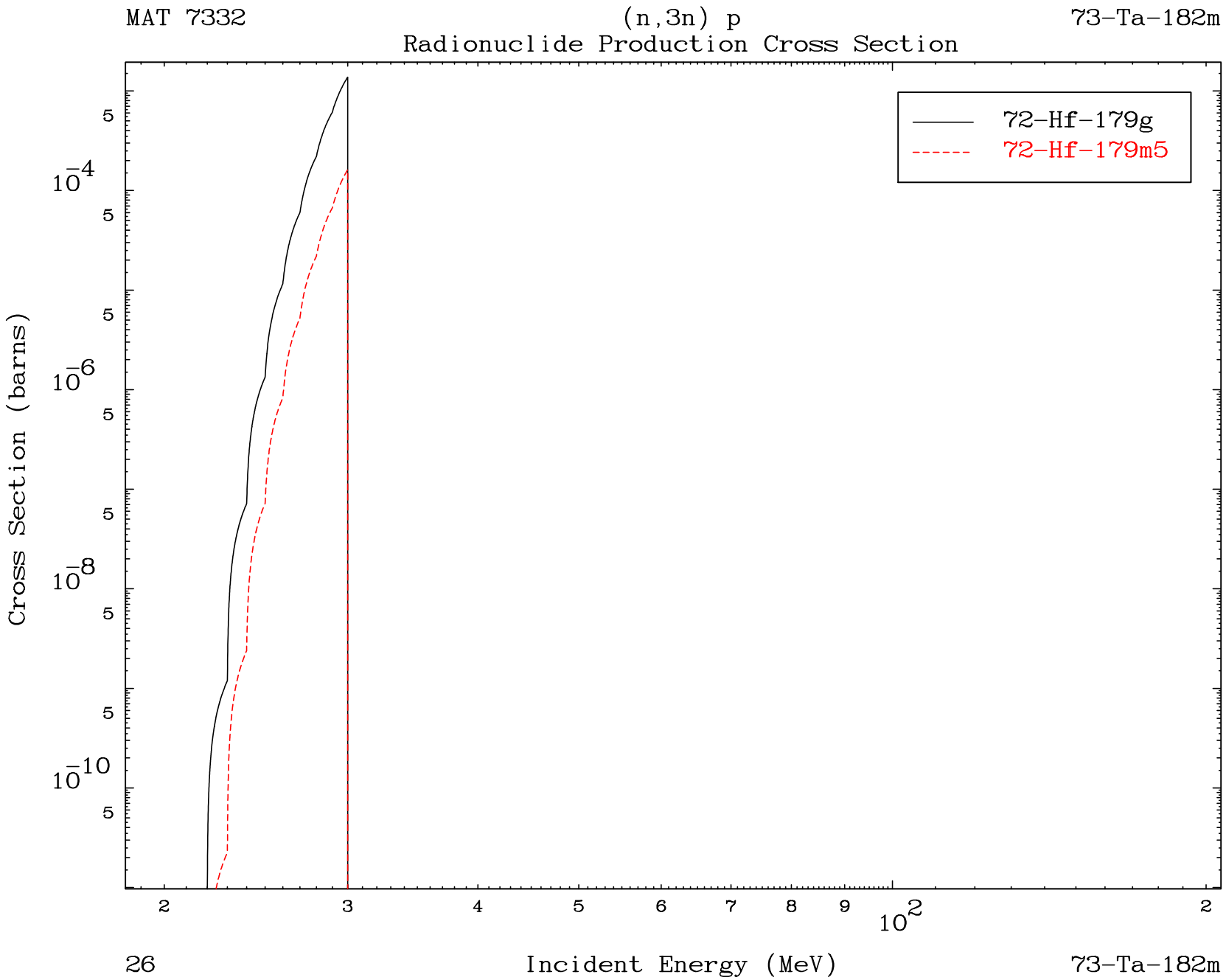

MAT 7332
(n,3n)
73-Ta-182m
Radionuclide Production Cross Section
Cross Section (barns)
10^0
5
10^-1
5
10^-2
5
10^-3
5
10^-4
5
73-Ta-180g
73-Ta-180m2
2
3
4
5
6
7
8
9
10^2
2
21
Incident Energy (MeV)
73-Ta-182m

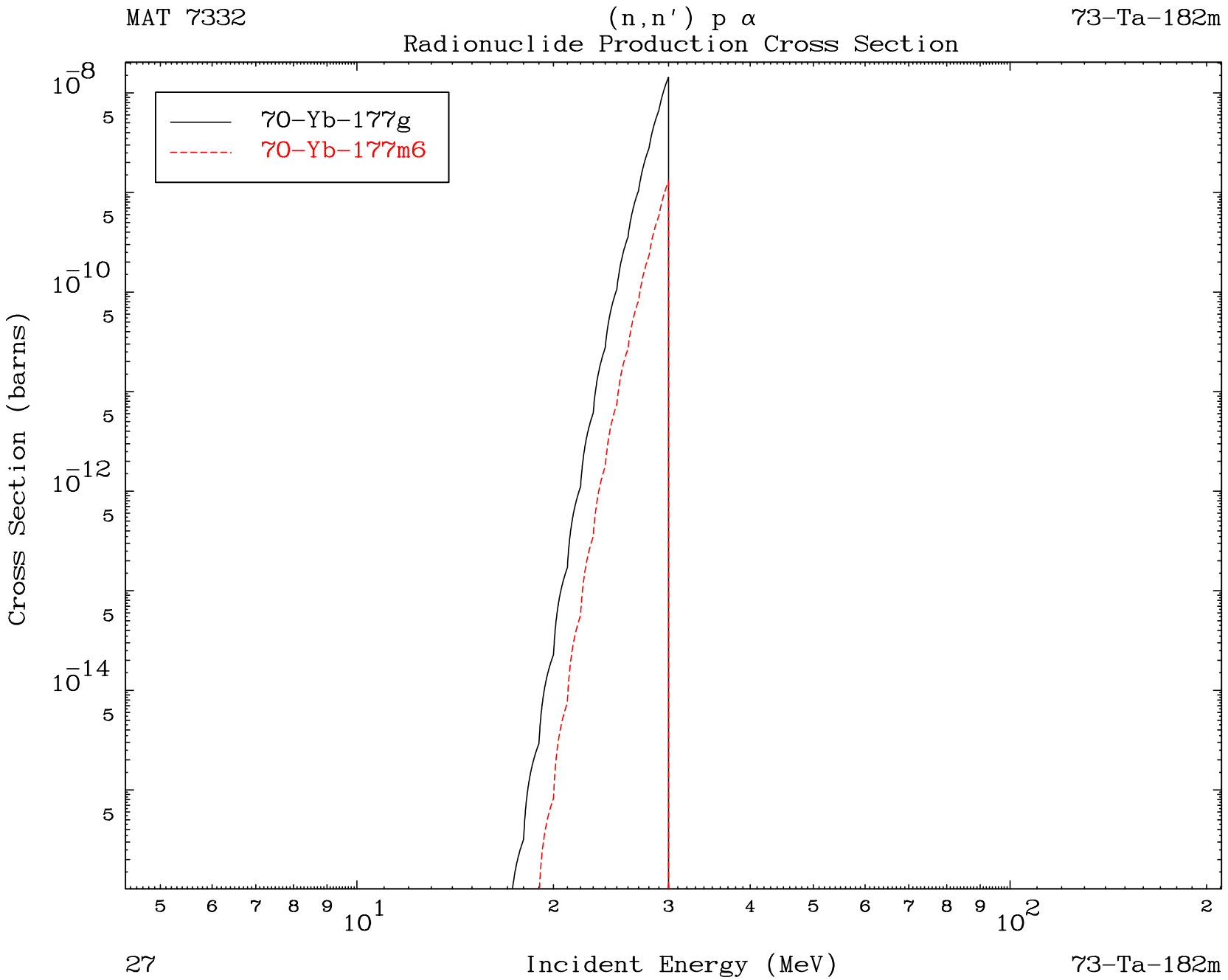

MAT 7332
Fission
73-Ta-182m
Radionuclide Production Cross Section
0-??-Nat
Cross Section (barns)
Incident Energy (MeV)
22
73-Ta-182m

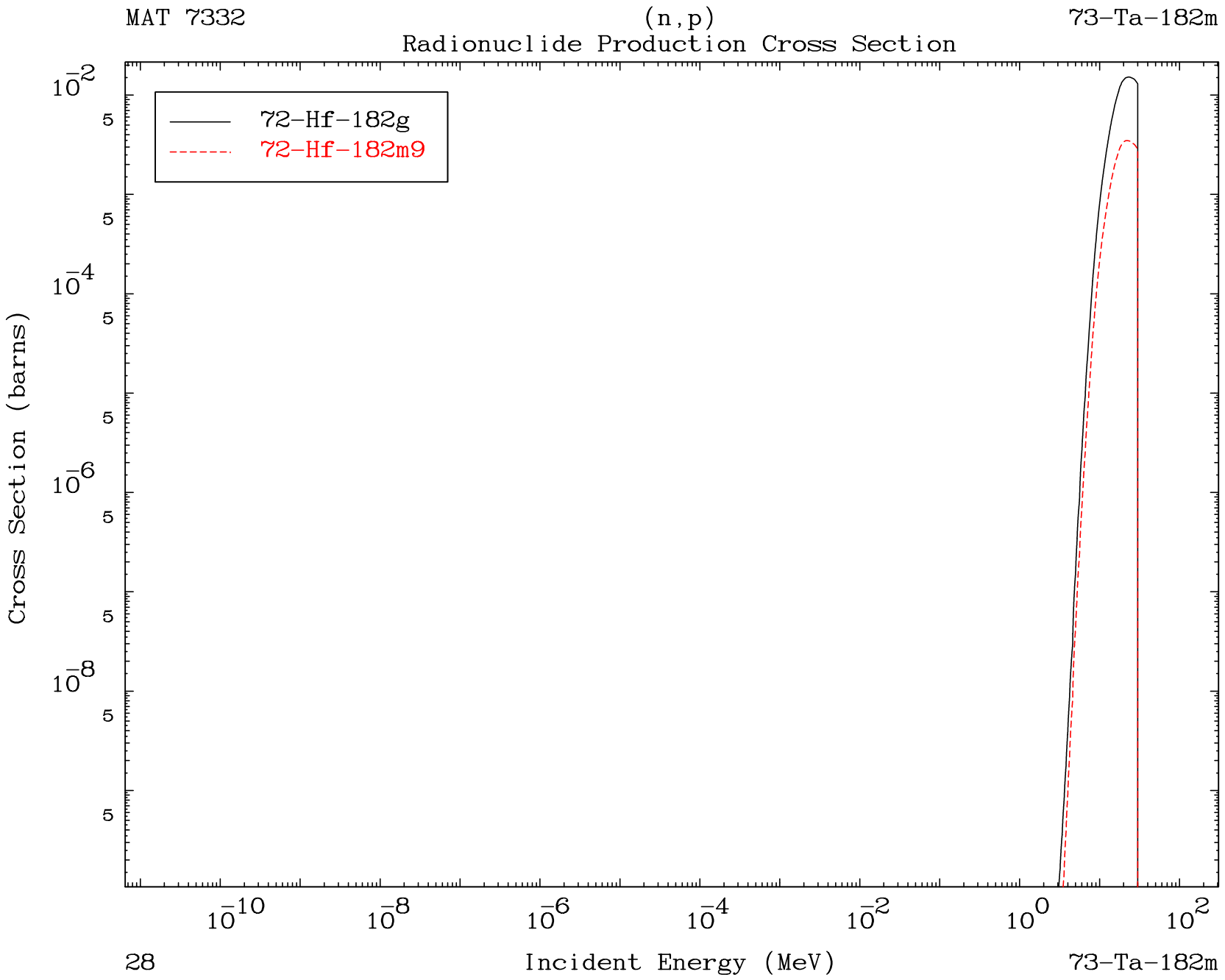

MAT 7332
(n,n') α
73-Ta-182m
Radionuclide Production Cross Section
71-Lu-178g
71-Lu-178m3
Cross Section (barns)
Incident Energy (MeV)
23
73-Ta-182m


MAT 7332
(n,3n) α
73-Ta-182m
Radionuclide Production Cross Section
71-Lu-176g
71-Lu-176m1
Cross Section (barns)
Incident Energy (MeV)
24
73-Ta-182m


MAT 7332
(n,n') t
73-Ta-182m
Radionuclide Production Cross Section
72-Hf-179g
72-Hf-179m5
Cross Section (barns)
10-4
10-6
10-8
10-10
5
2
3
4
5
6
7
8
9
10 2
2
25
Incident Energy (MeV)
73-Ta-182m


MAT 7332
(n,3n) p
73-Ta-182m
Radionuclide Production Cross Section
72-Hf-179g
72-Hf-179m5
Cross Section (barns)
10-4
10-6
10-8
10-10
5
2
3
4
5
6
7
8
9
10 2
2
26
Incident Energy (MeV)
73-Ta-182m


MAT 7332
(n,n') p α
73-Ta-182m
Radionuclide Production Cross Section
70-Yb-177g
70-Yb-177m6
Cross Section (barns)
Incident Energy (MeV)
27
73-Ta-182m


MAT 7332
(n,p)
73-Ta-182m
Radionuclide Production Cross Section
72-Hf-182g
72-Hf-182m9
Cross Section (barns)
Incident Energy (MeV)
28
73-Ta-182m