Program EVALPLOT
(Version 2015-2)
by
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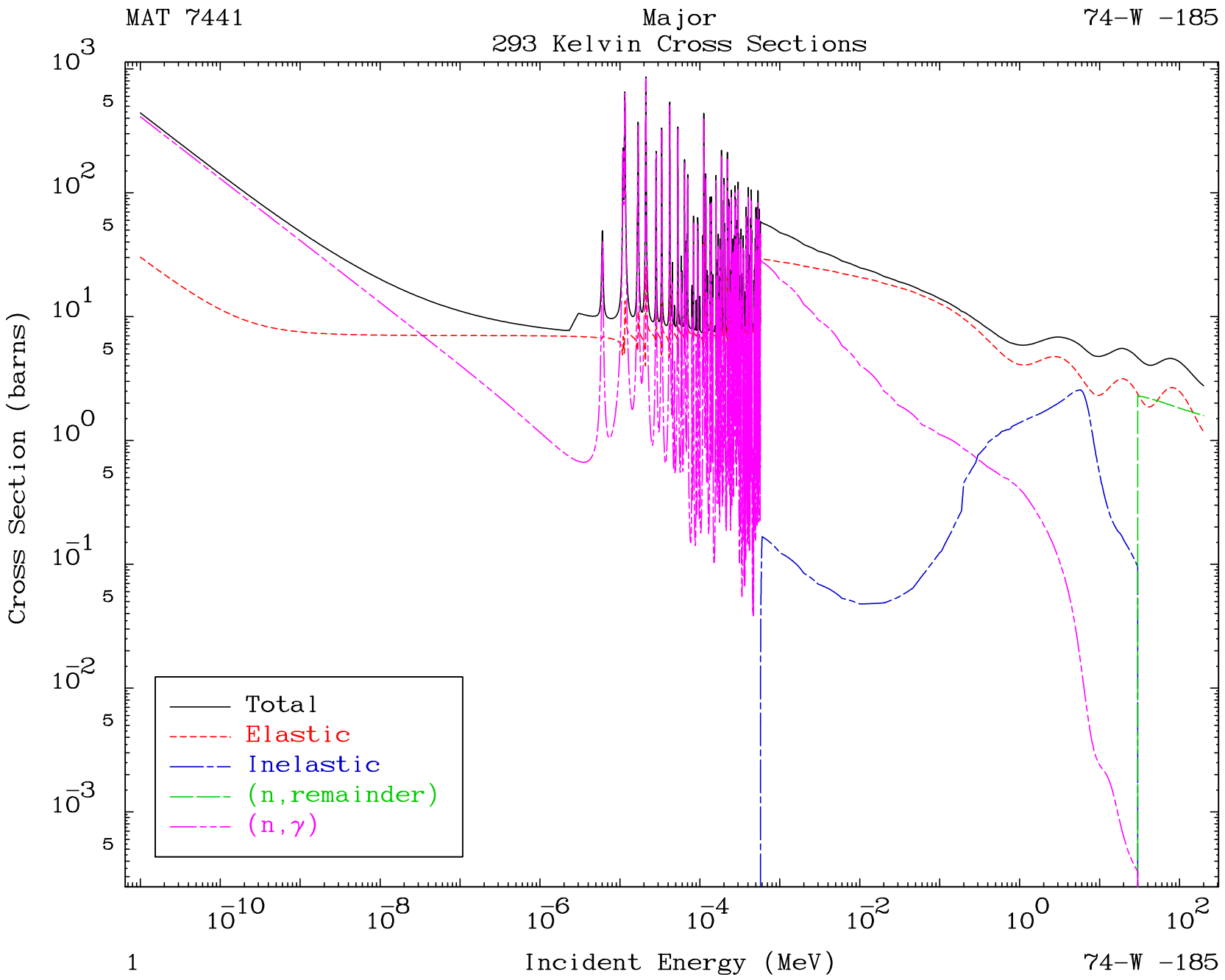
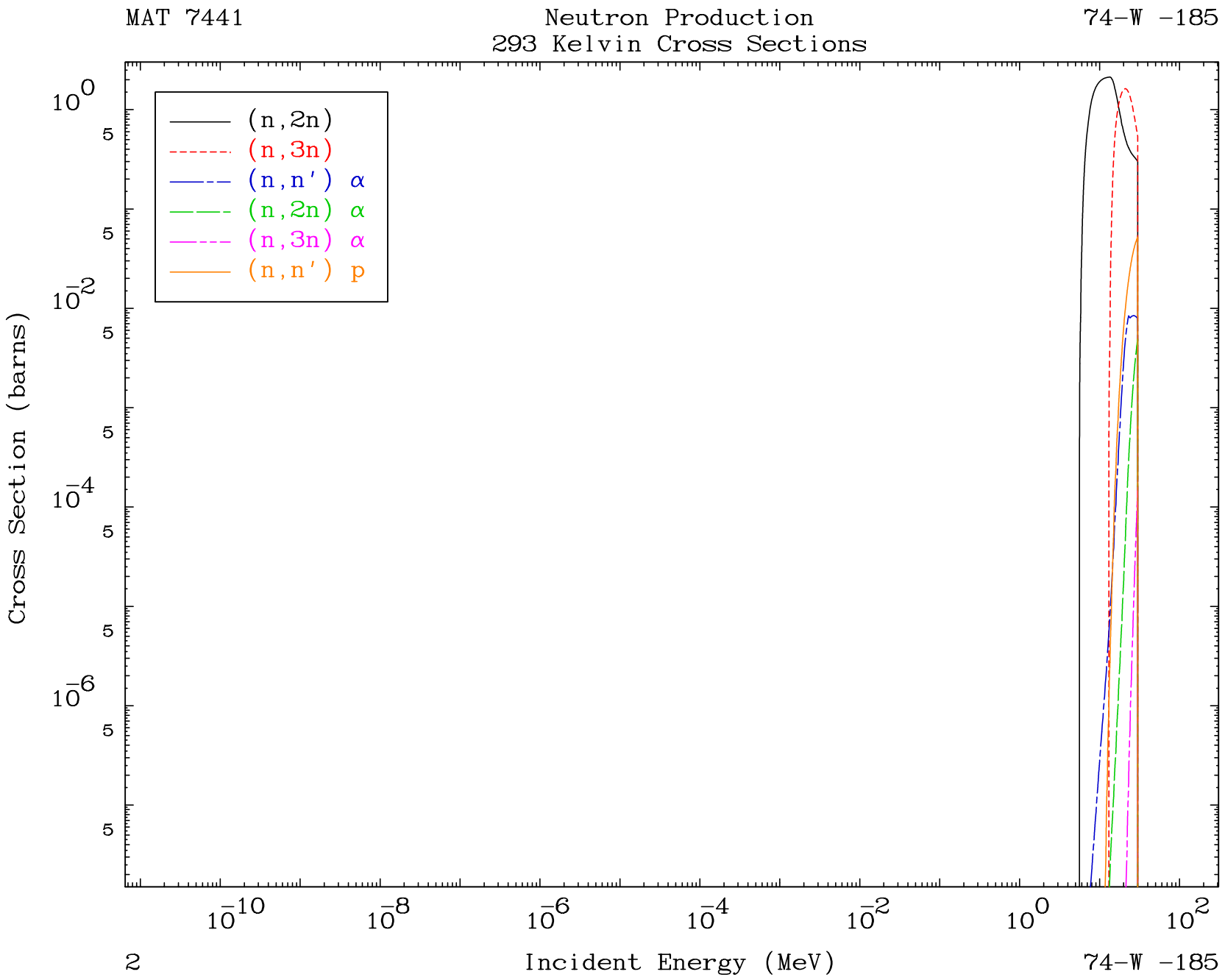
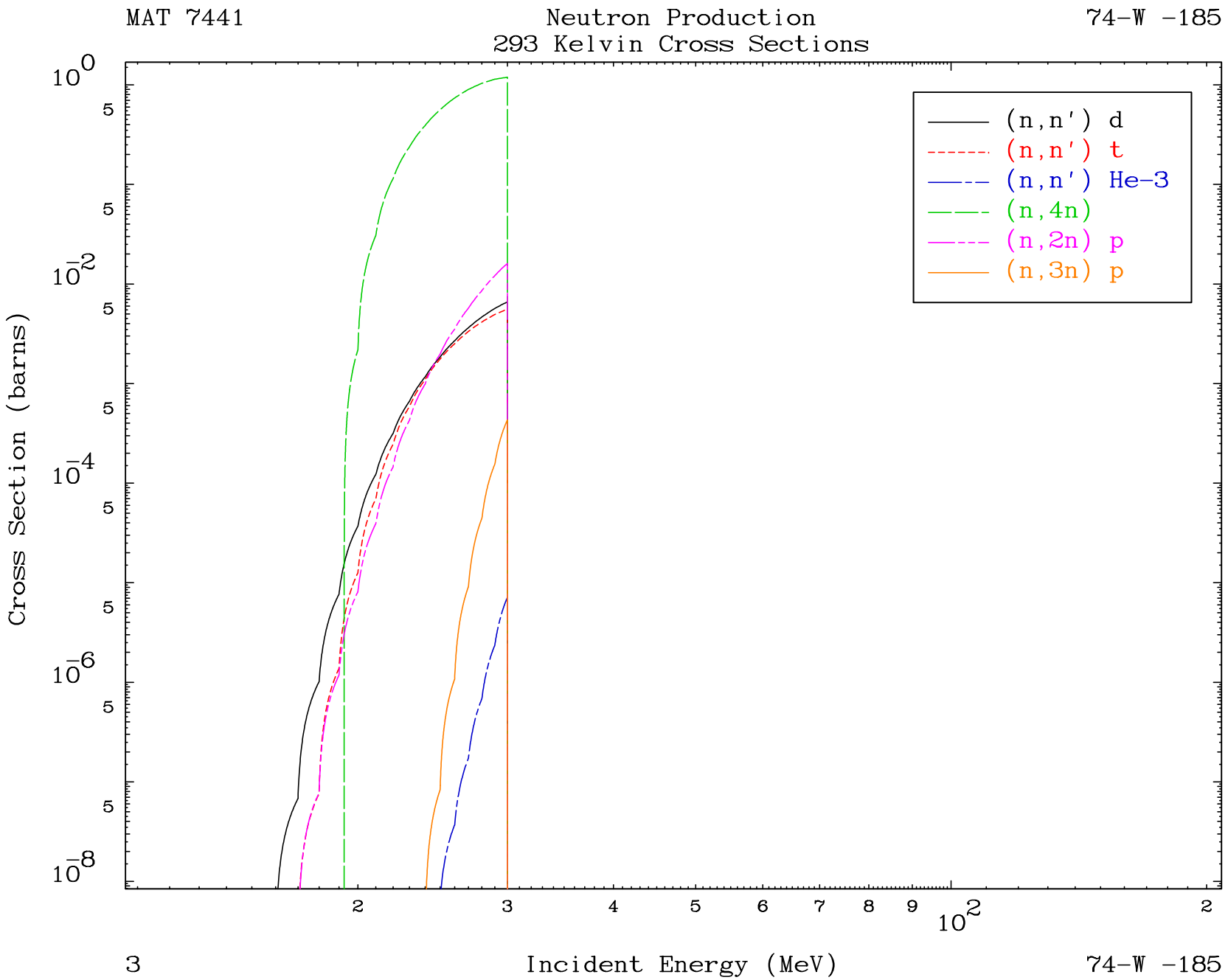
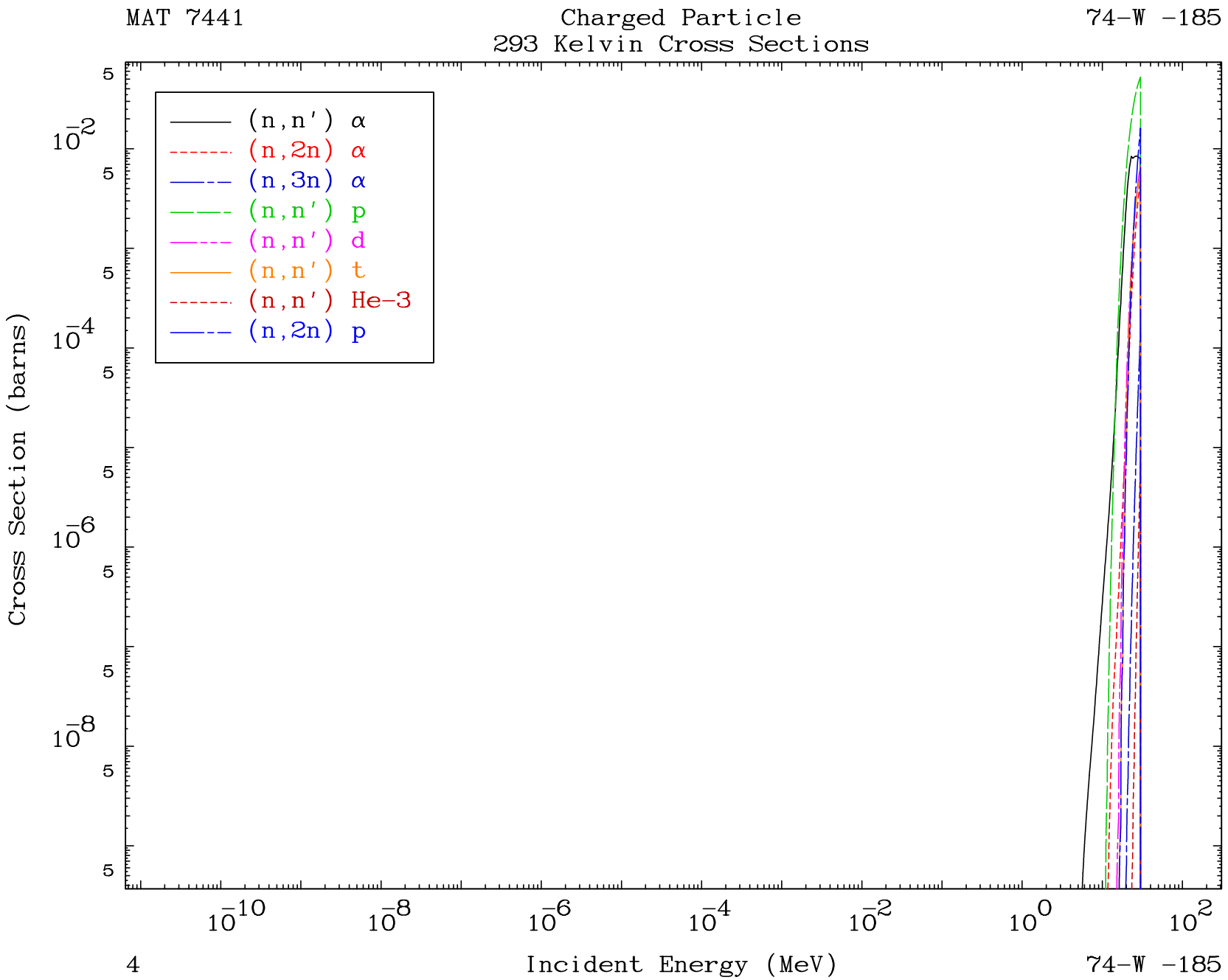
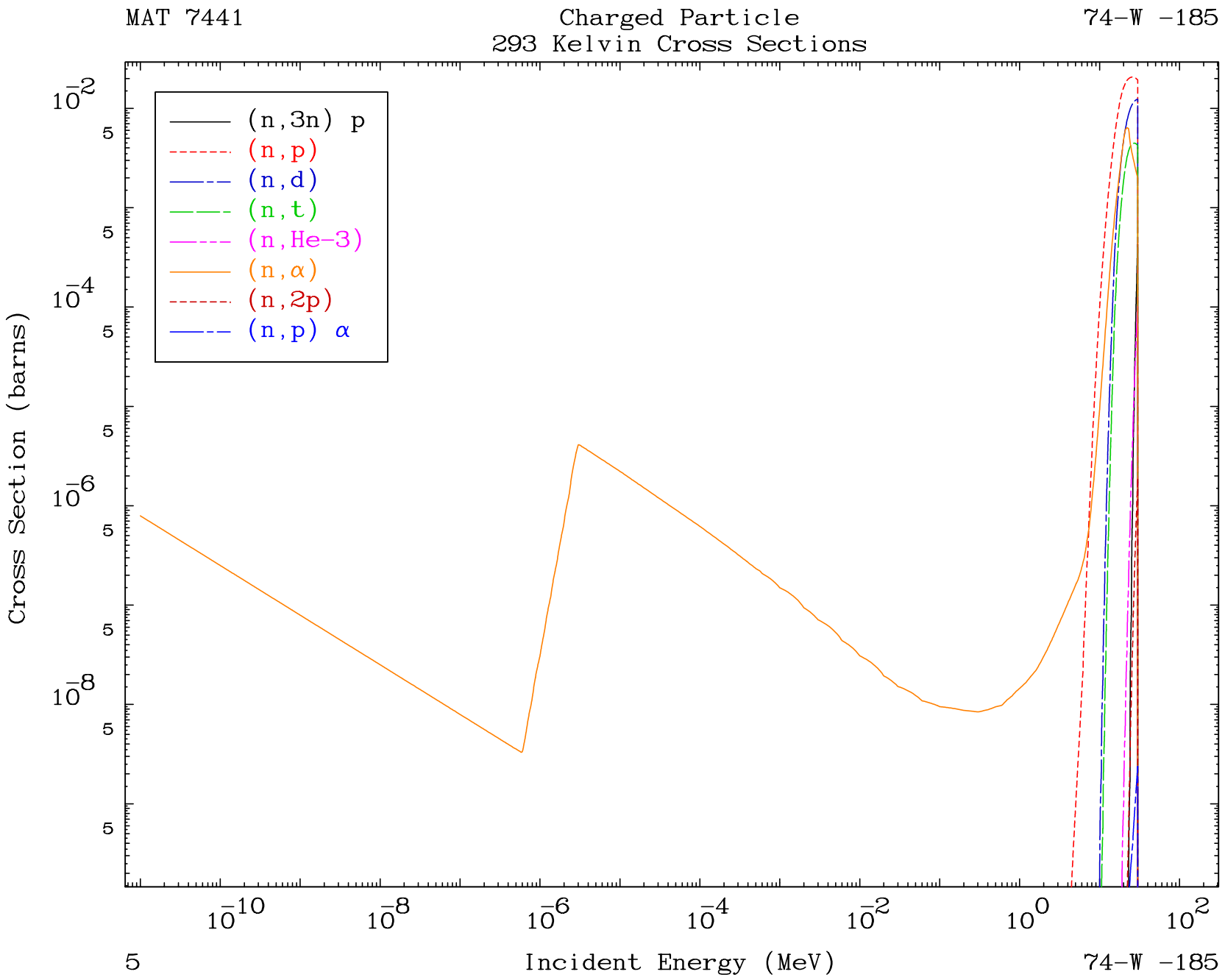
Press Mouse Button to Start

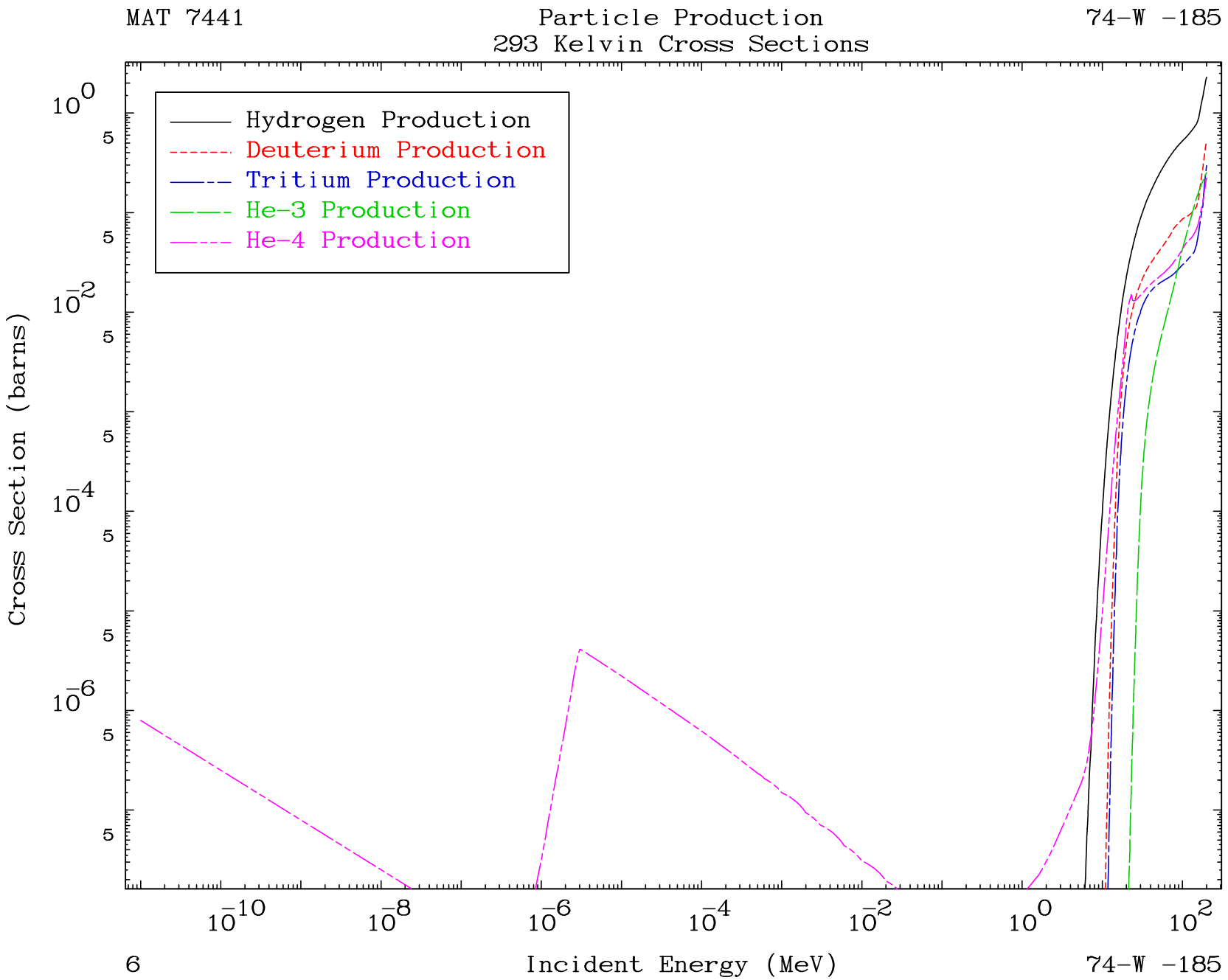

MAT 7441
Major
74-W -185
293 Kelvin Cross Sections
Cross Section (barns)
Incident Energy (MeV)
Total
Elastic
Inelastic
(n,remainder)
(n,γ)
74-W -185
1

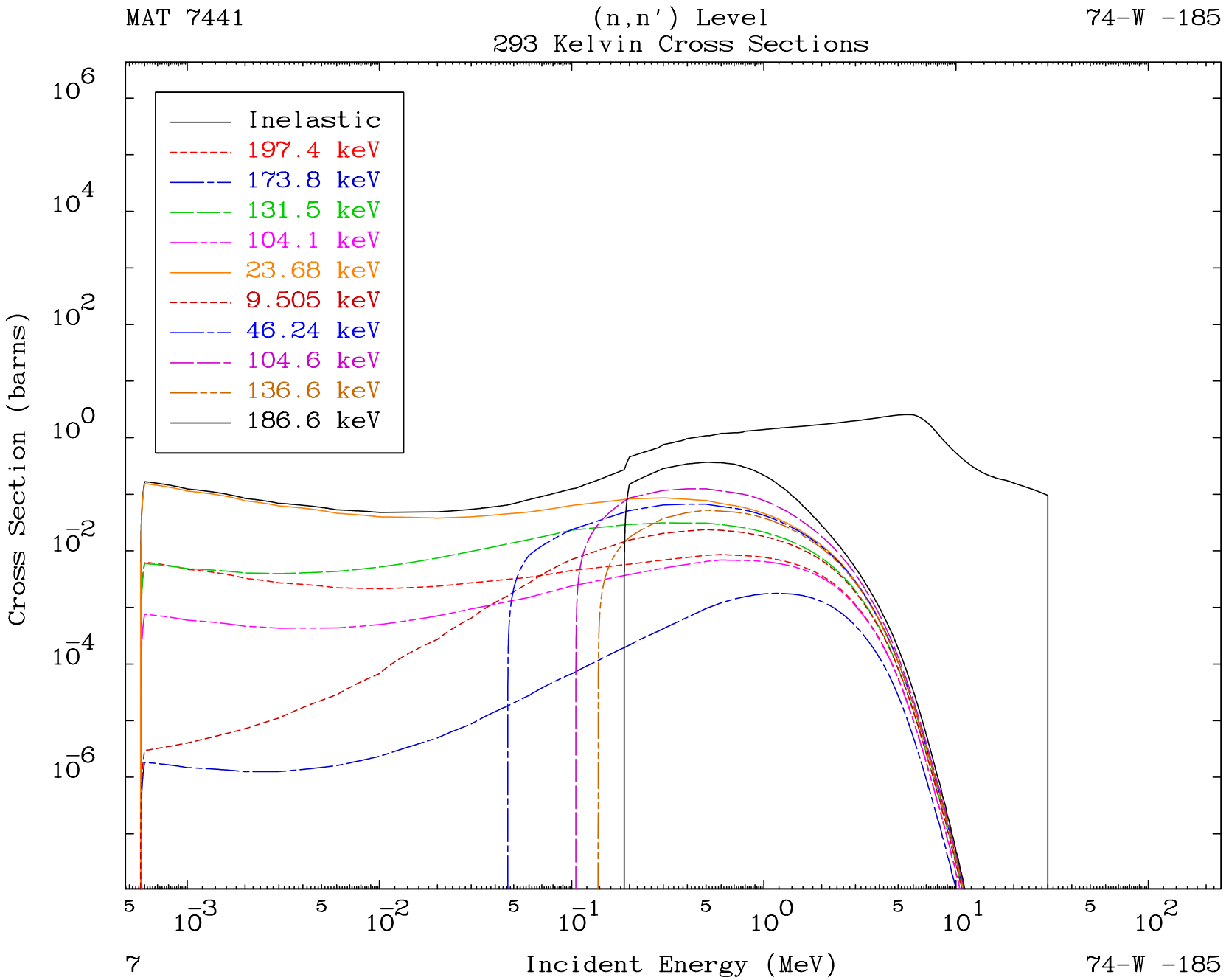

MAT 7441
Neutron Production
293 Kelvin Cross Sections
74-W -185
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
Cross Section (barns)
Incident Energy (MeV)
74-W -185
2

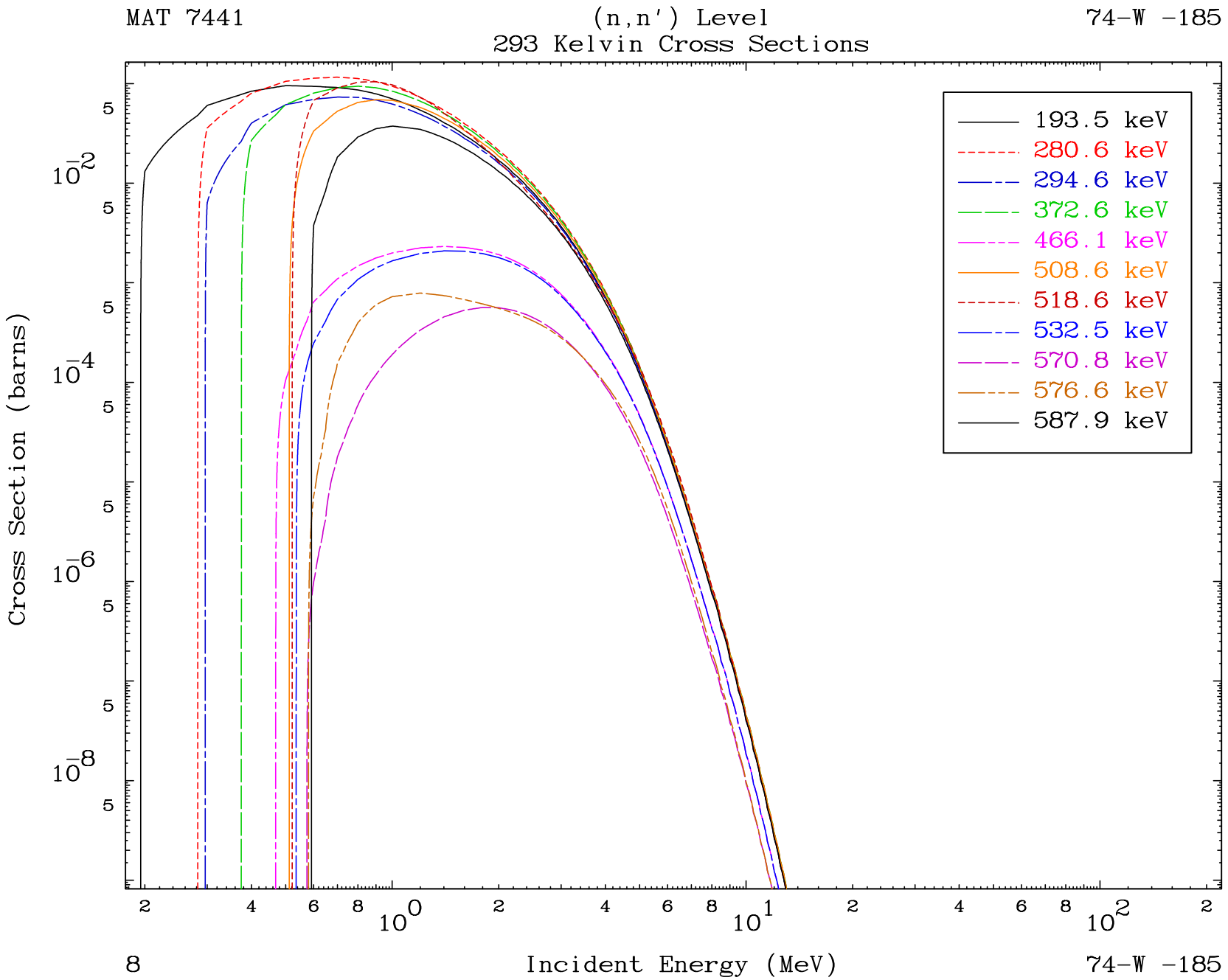

MAT 7441
Neutron Production
293 Kelvin Cross Sections
74-W -185
(n,n') d
(n,n') t
(n,n') He-3
(n,4n)
(n,2n) p
(n,3n) p
Cross Section (barns)
Incident Energy (MeV)
3
74-W -185

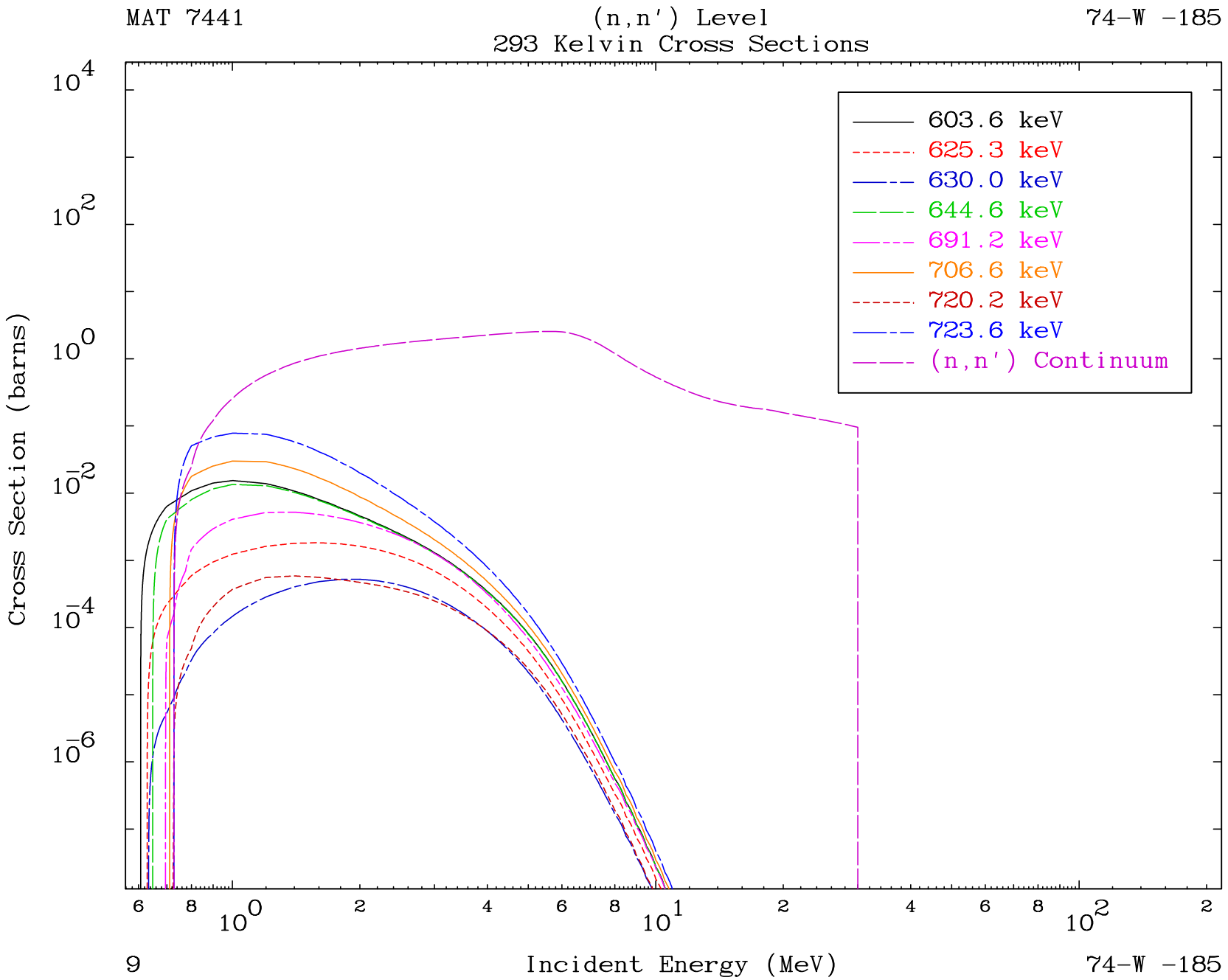

MAT 7441
Charged Particle
293 Kelvin Cross Sections
74-W -185
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
Cross Section (barns)
Incident Energy (MeV)
4
74-W -185

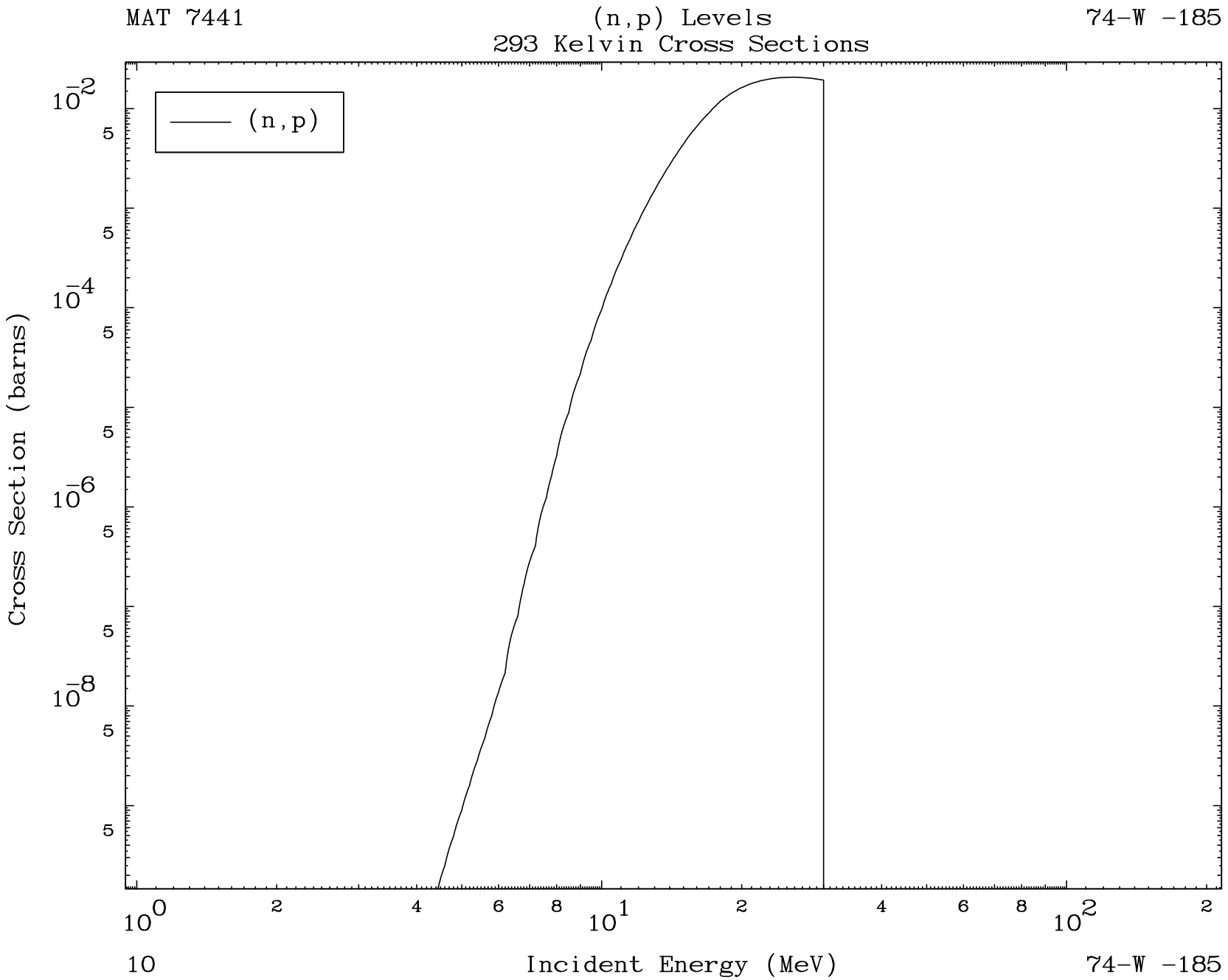

MAT 7441
Charged Particle
293 Kelvin Cross Sections
74-W -185
(n,3n) p
(n,p)
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2p)
(n,p) α
Cross Section (barns)
Incident Energy (MeV)
74-W -185

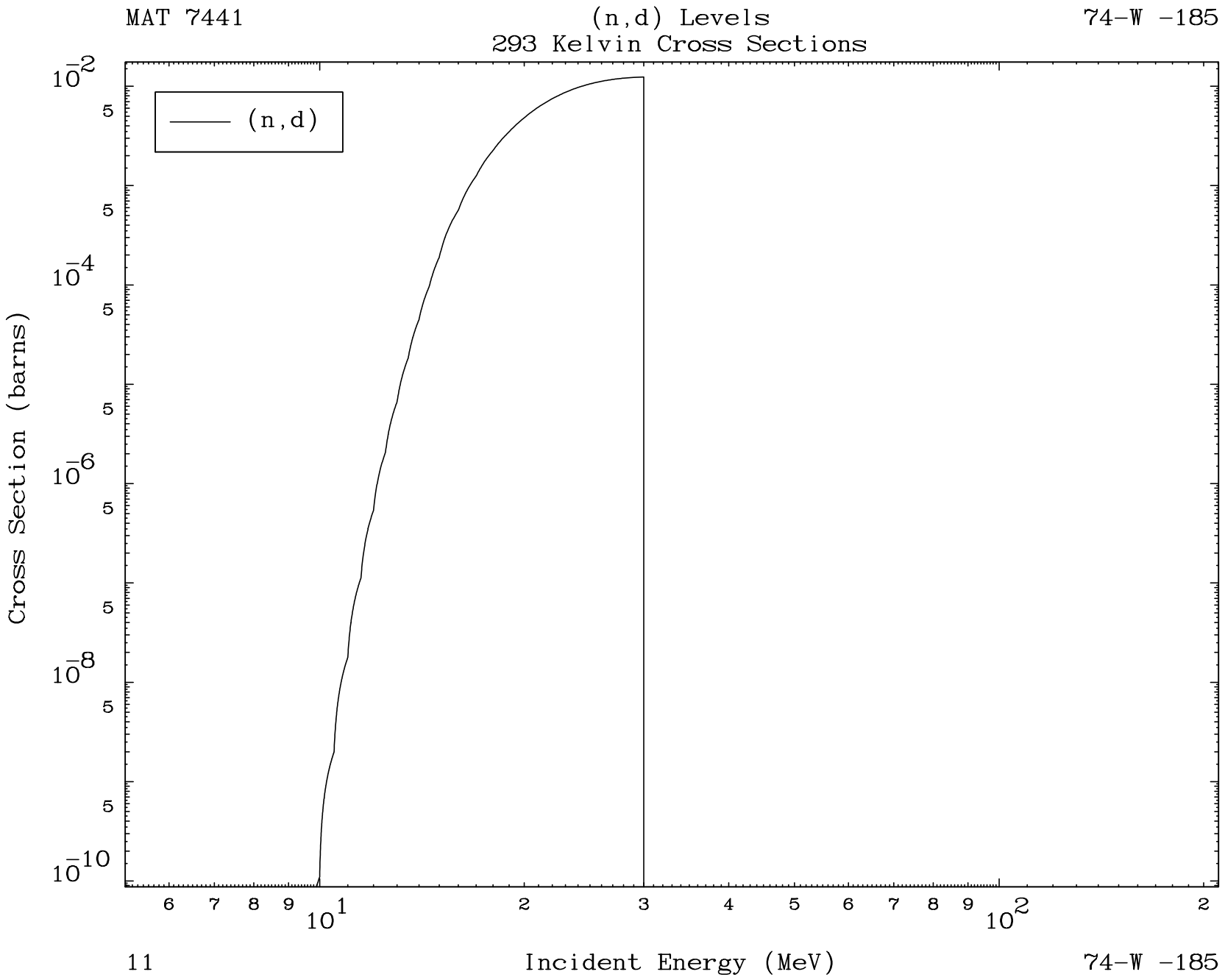

MAT 7441
Particle Production
293 Kelvin Cross Sections
74-W -185
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production
Cross Section (barns)
Incident Energy (MeV)
74-W -185
6

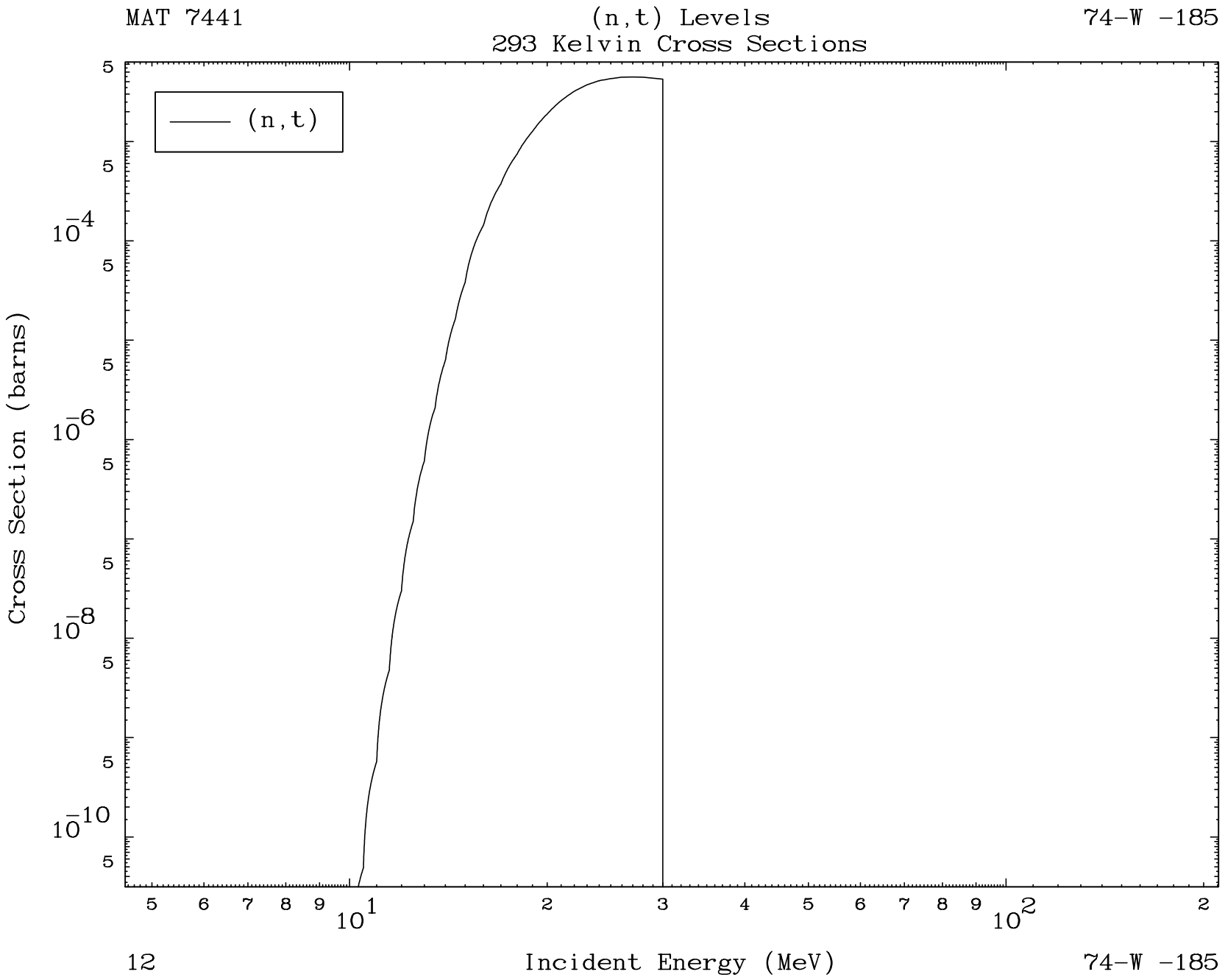

MAT 7441
(n,n') Level
293 Kelvin Cross Sections
74-W -185
Inelastic
197.4 keV
173.8 keV
131.5 keV
104.1 keV
23.68 keV
9.505 keV
46.24 keV
104.6 keV
136.6 keV
186.6 keV
Cross Section (barns)
Incident Energy (MeV)
7
74-W -185

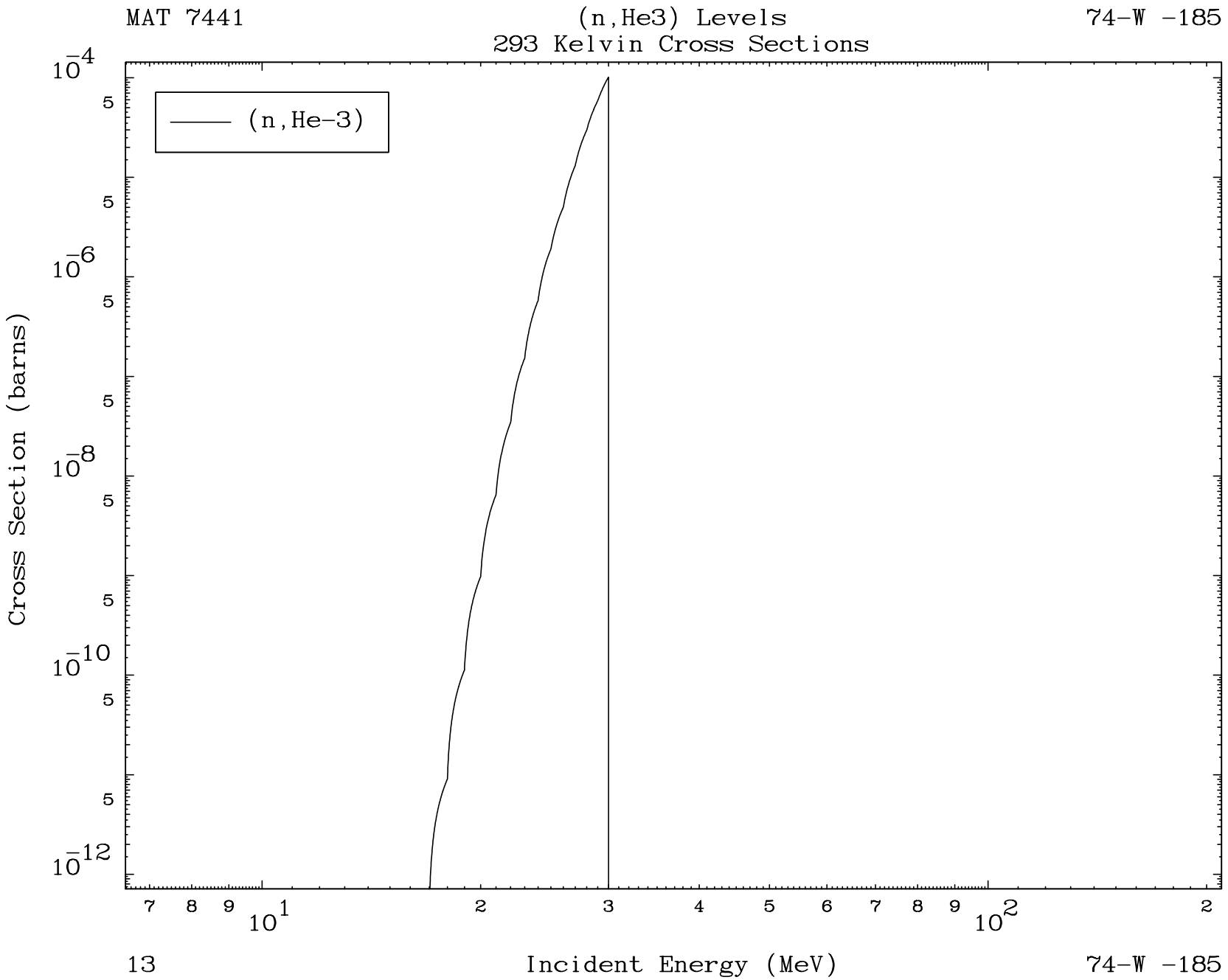

MAT 7441
(n,n') Level
293 Kelvin Cross Sections
74-W -185
193.5 keV
280.6 keV
294.6 keV
372.6 keV
466.1 keV
508.6 keV
518.6 keV
532.5 keV
570.8 keV
576.6 keV
587.9 keV
Cross Section (barns)
Incident Energy (MeV)
74-W -185
8

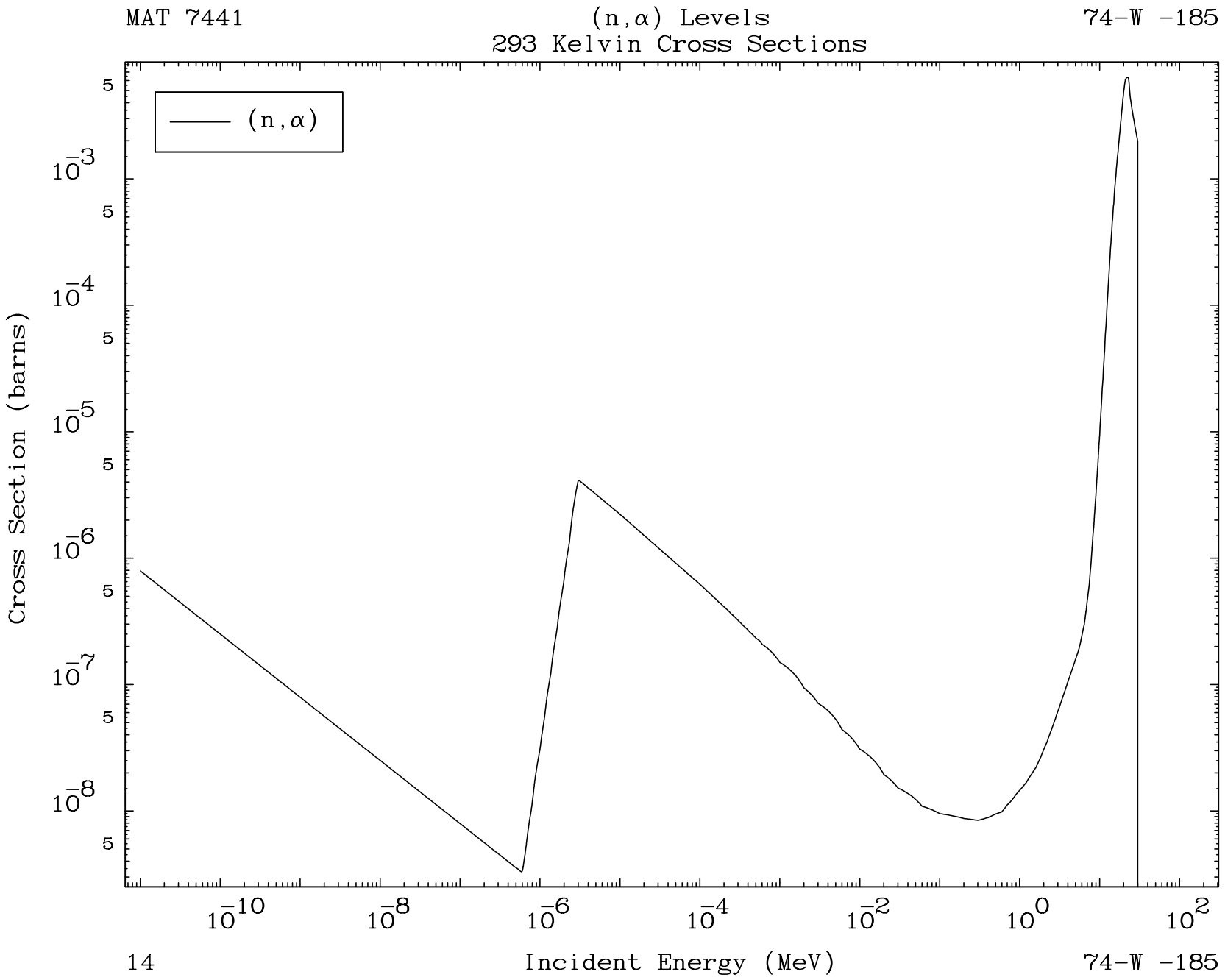

MAT 7441
(n,n') Level
293 Kelvin Cross Sections
74-W -185
603.6 keV
625.3 keV
630.0 keV
644.6 keV
691.2 keV
706.6 keV
720.2 keV
723.6 keV
(n,n') Continuum
Cross Section (barns)
Incident Energy (MeV)
9
74-W -185

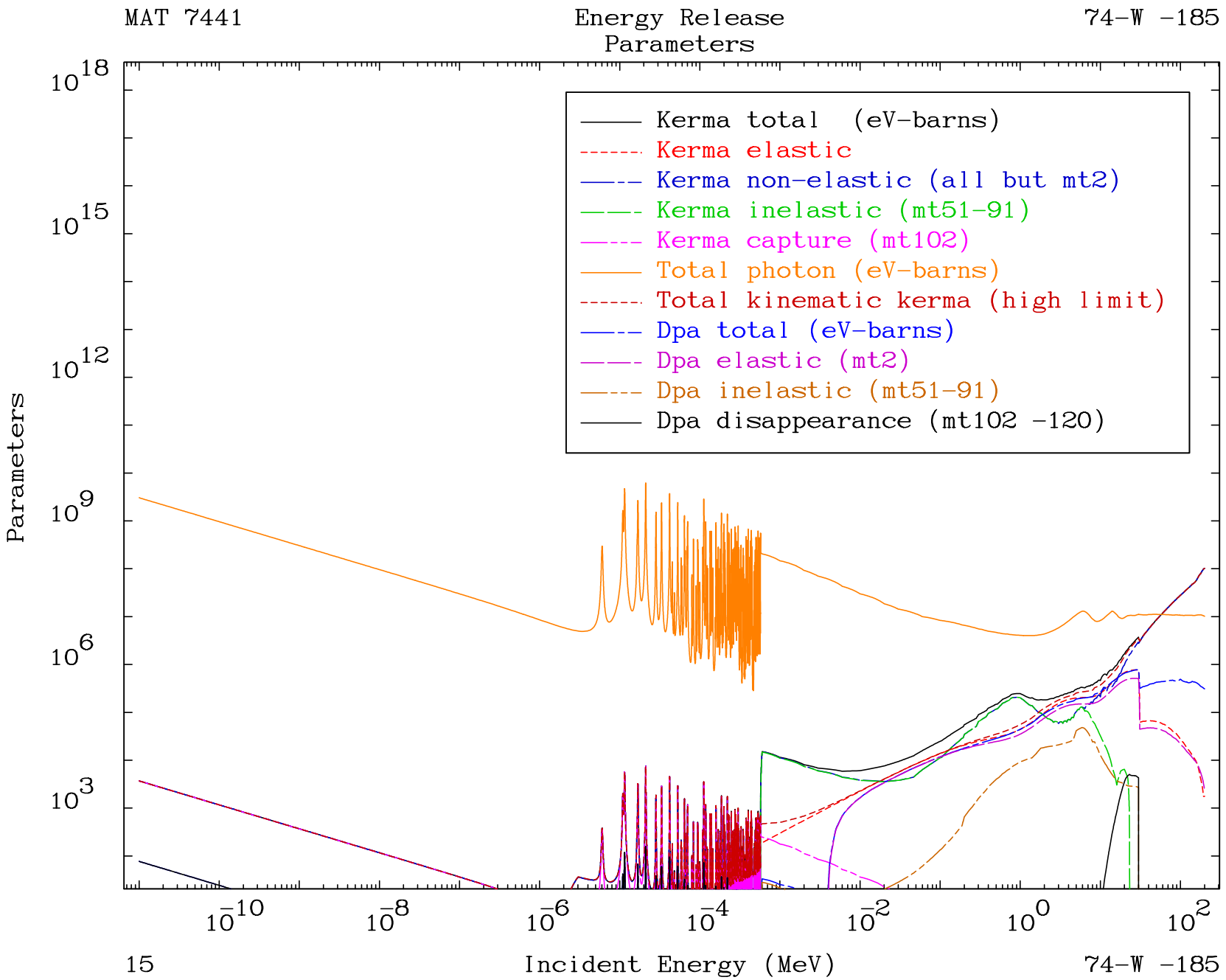

MAT 7441
(n,p) Levels
74-W -185
293 Kelvin Cross Sections
(n,p)
Cross Section (barns)
Incident Energy (MeV)
74-W -185

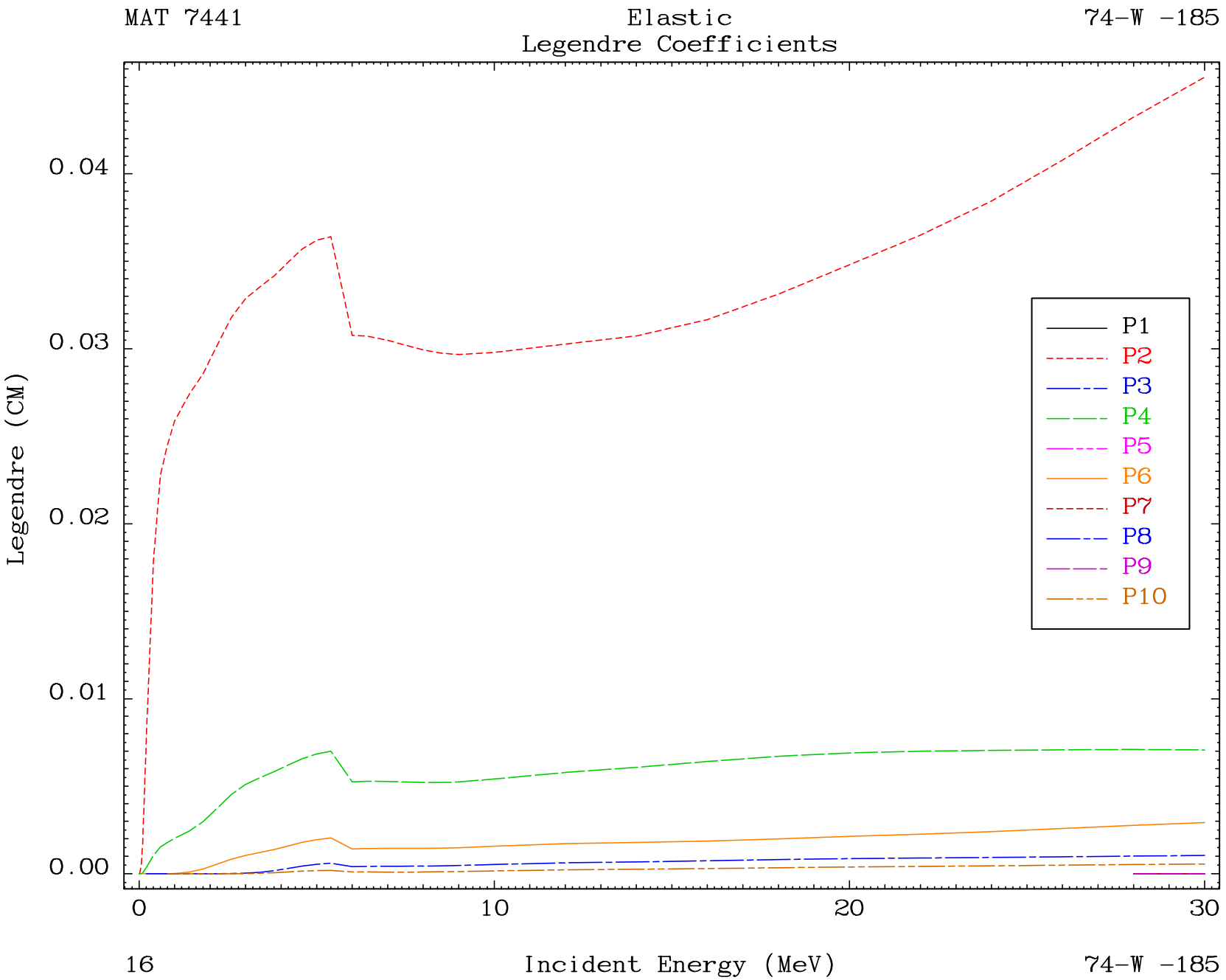

MAT 7441
(n,d) Levels
74-W -185
293 Kelvin Cross Sections
(n,d)
Cross Section (barns)
Incident Energy (MeV)
11
74-W -185

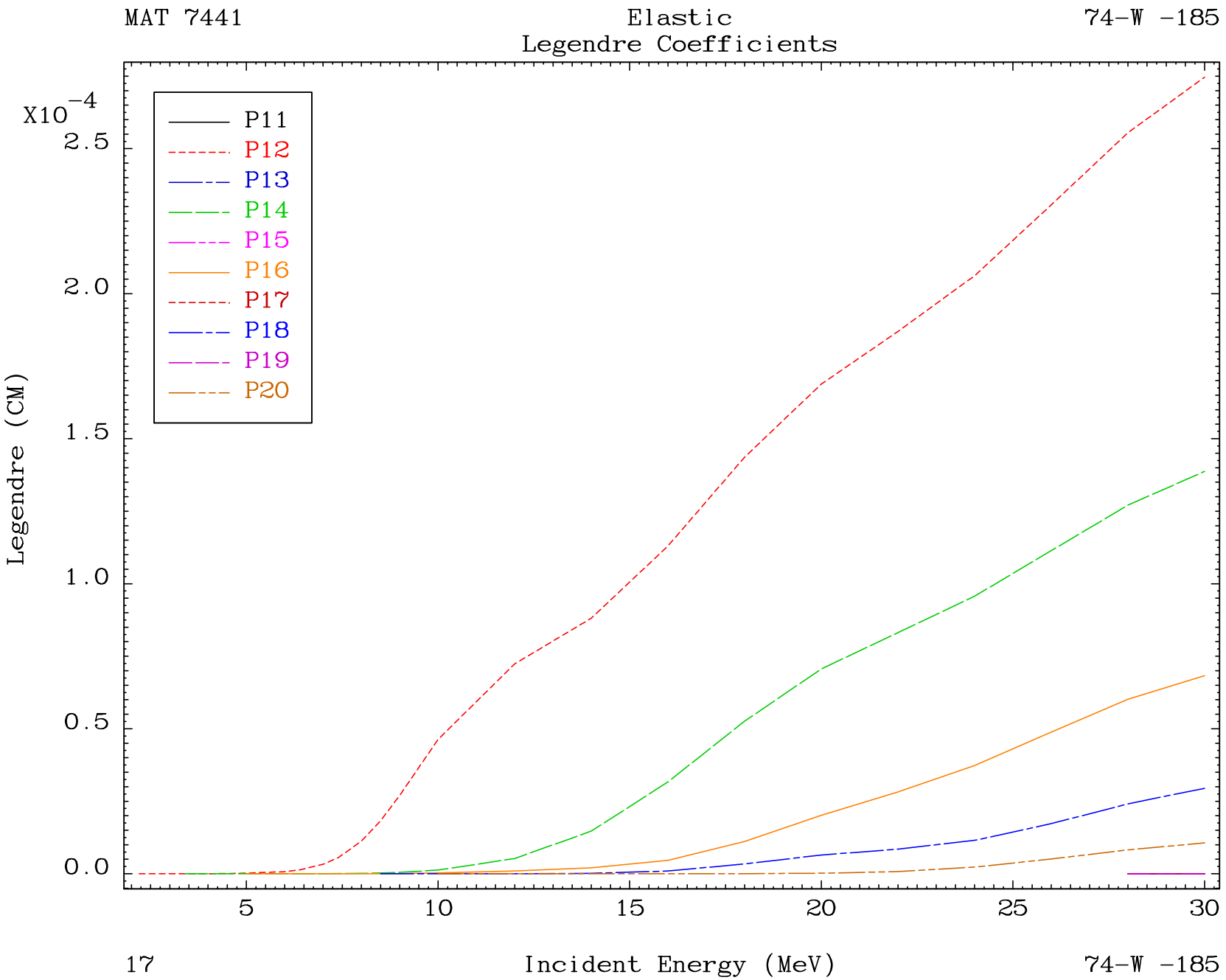

MAT 7441
(n,t) Levels
74-W -185
293 Kelvin Cross Sections
(n,t)
Cross Section (barns)
Incident Energy (MeV)
12
74-W -185

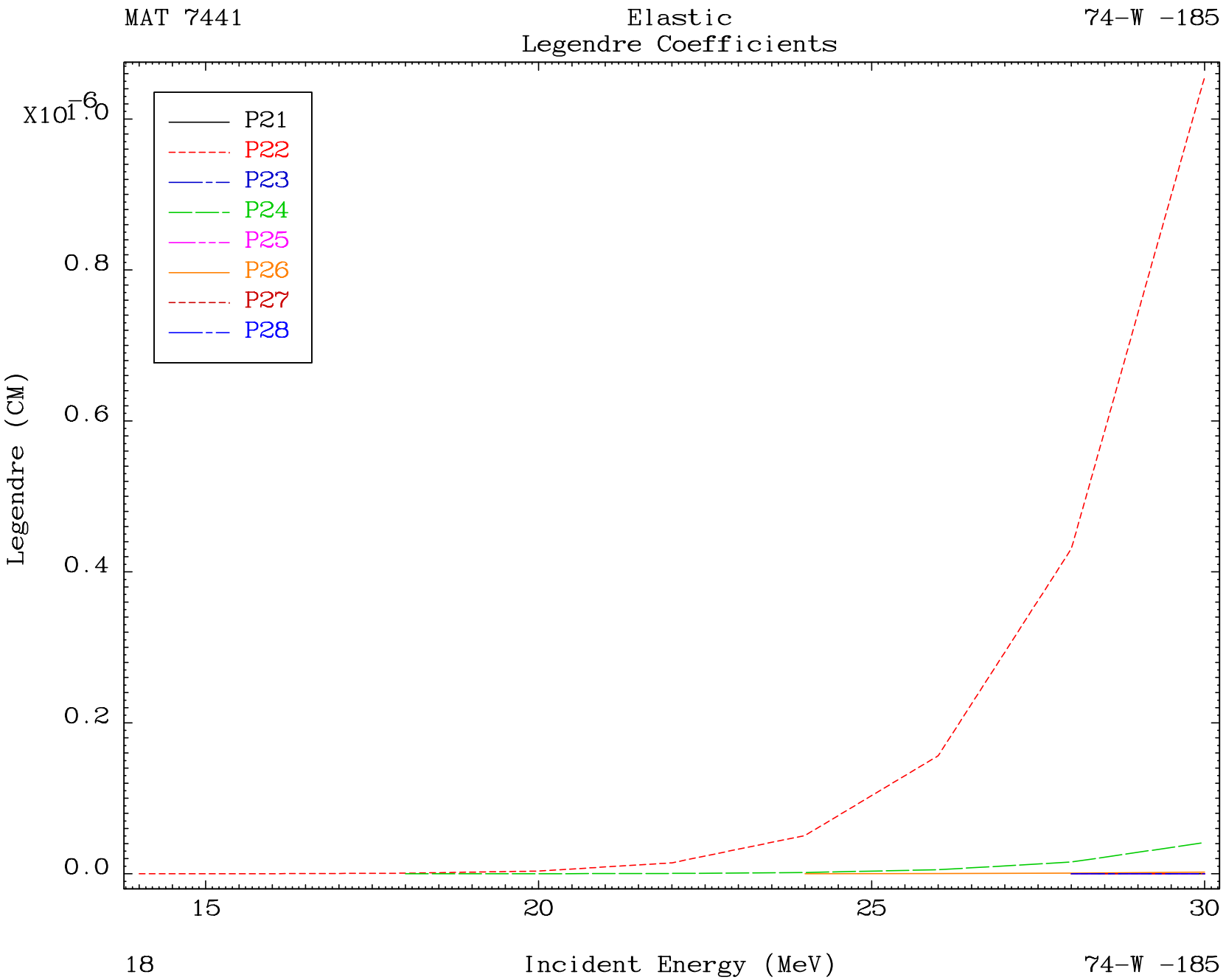

MAT 7441
(n,He3) Levels
74-W -185
293 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
Incident Energy (MeV)
13
74-W -185

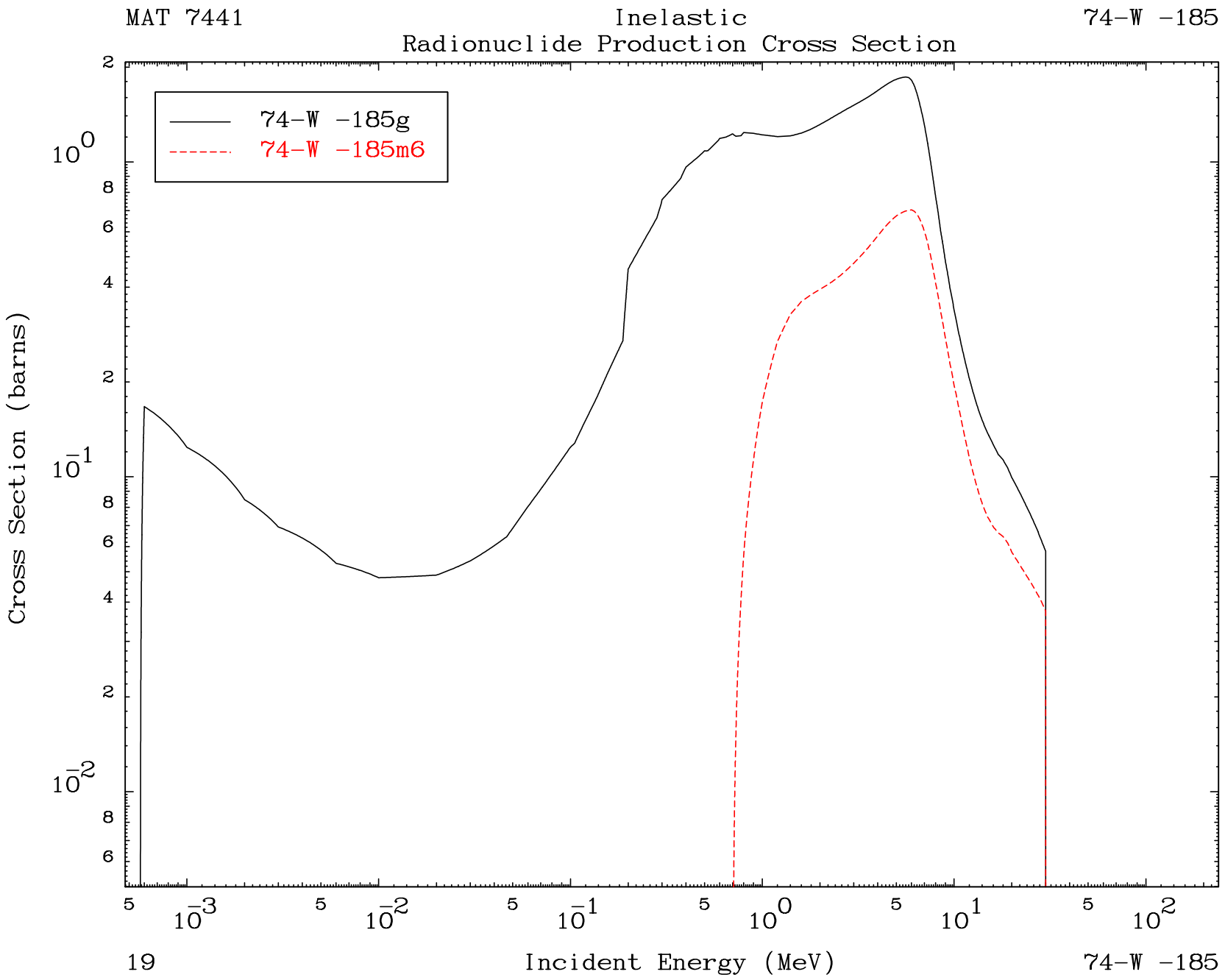

MAT 7441
(n,α) Levels
293 Kelvin Cross Sections
74-W -185
(n,α)
Cross Section (barns)
5
10-3
5
10-4
5
10-5
5
10-6
5
10-7
5
10-8
5
10-10
10-8
10-6
10-4
10-2
100
102
14
Incident Energy (MeV)
74-W -185

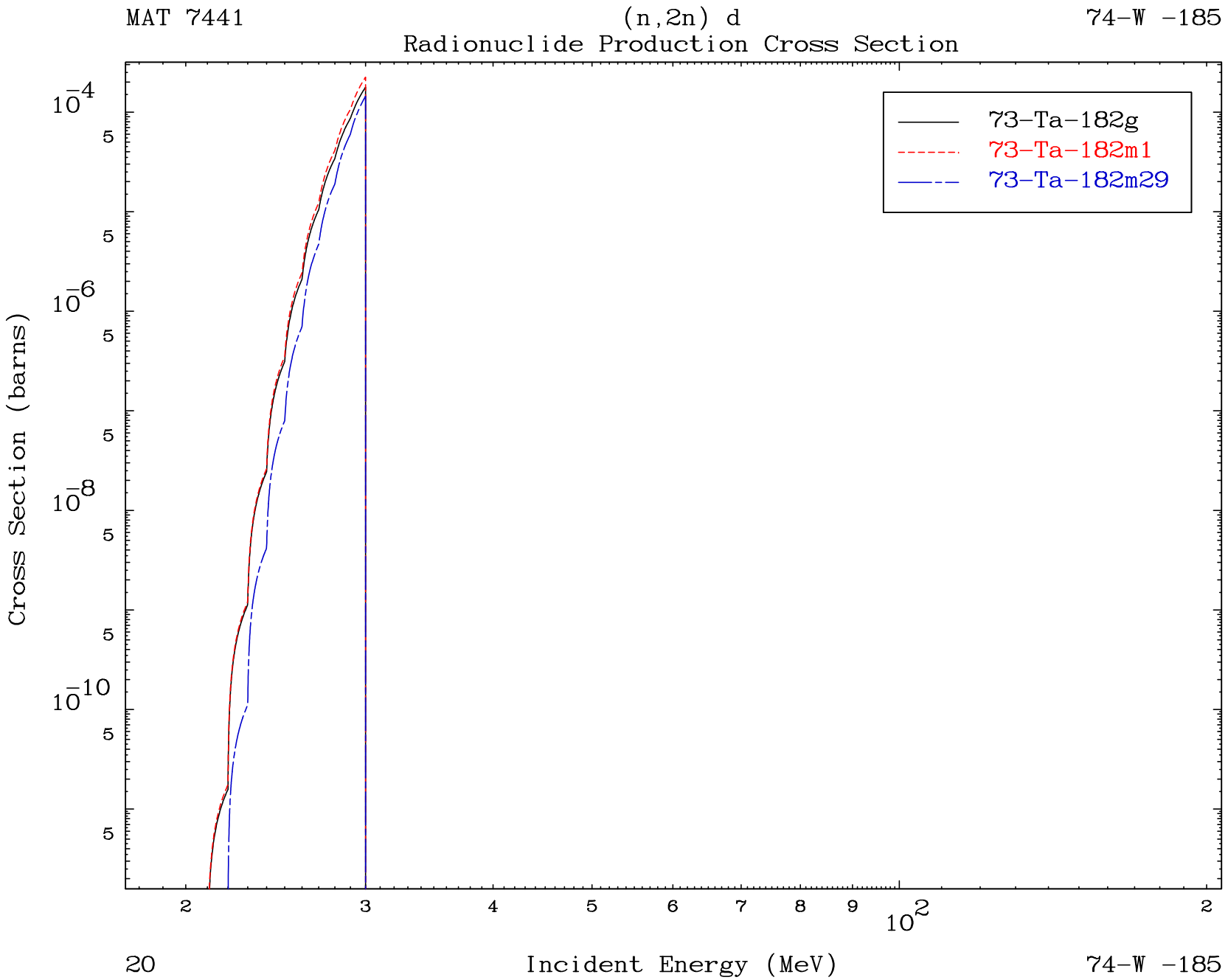

MAT 7441
Energy Release Parameters
74-W -185
Kerma total (eV-barns)
Kerma elastic
Kerma non-elastic (all but mt2)
Kerma inelastic (mt51-91)
Kerma capture (mt102)
Total photon (eV-barns)
Total kinematic kerma (high limit)
Dpa total (eV-barns)
Dpa elastic (mt2)
Dpa inelastic (mt51-91)
Dpa disappearance (mt102 -120)
Parameters
10^{18}
10^{15}
10^{12}
10^{9}
10^{6}
10^{3}
10^{-10}
10^{-8}
10^{-6}
10^{-4}
10^{-2}
10^{0}
10^{2}
15
Incident Energy (MeV)
74-W -185

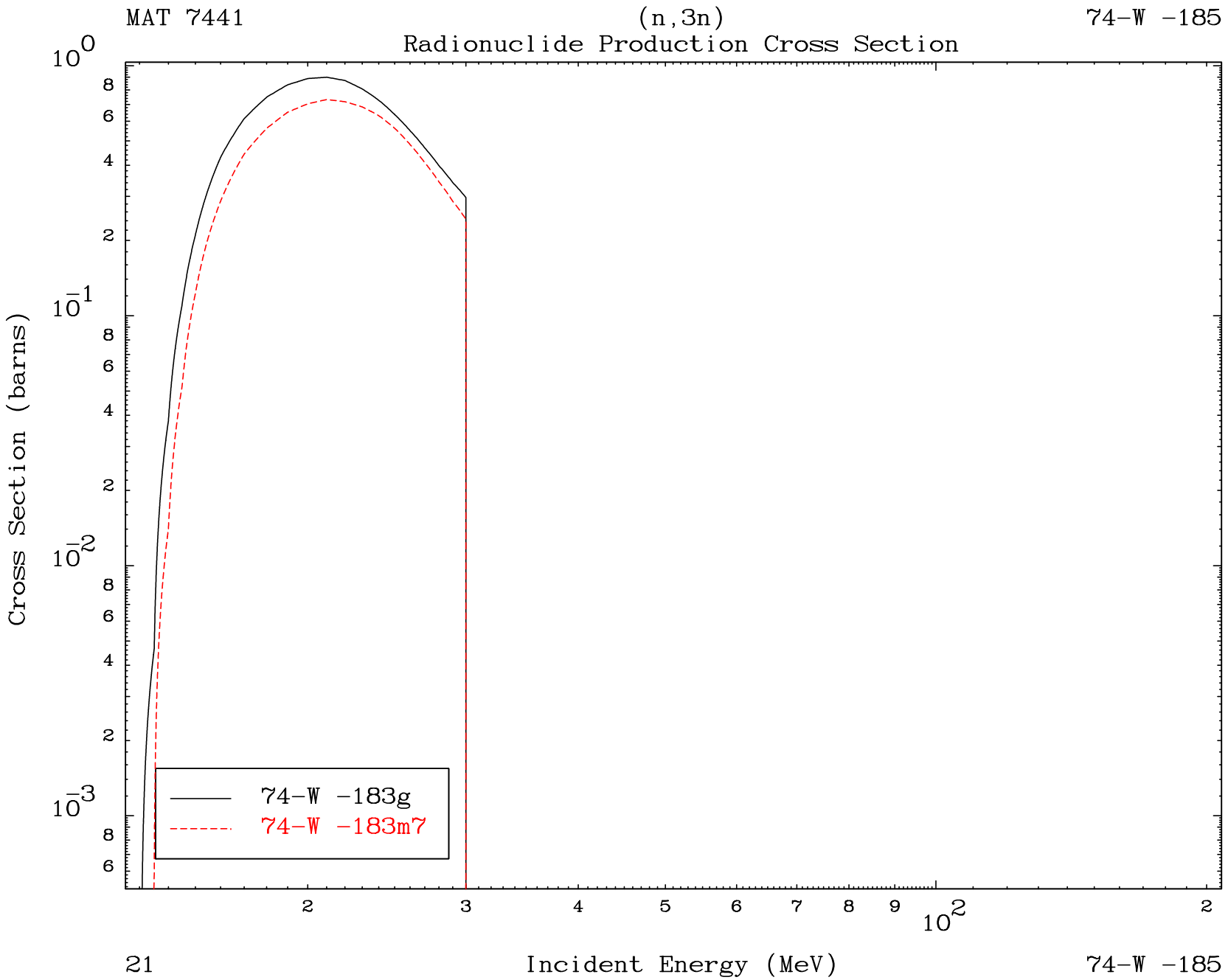

MAT 7441
Elastic
Legendre Coefficients
74-W -185
0.04
0.03
0.02
0.01
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
0
10
20
30
16
Incident Energy (MeV)
74-W -185

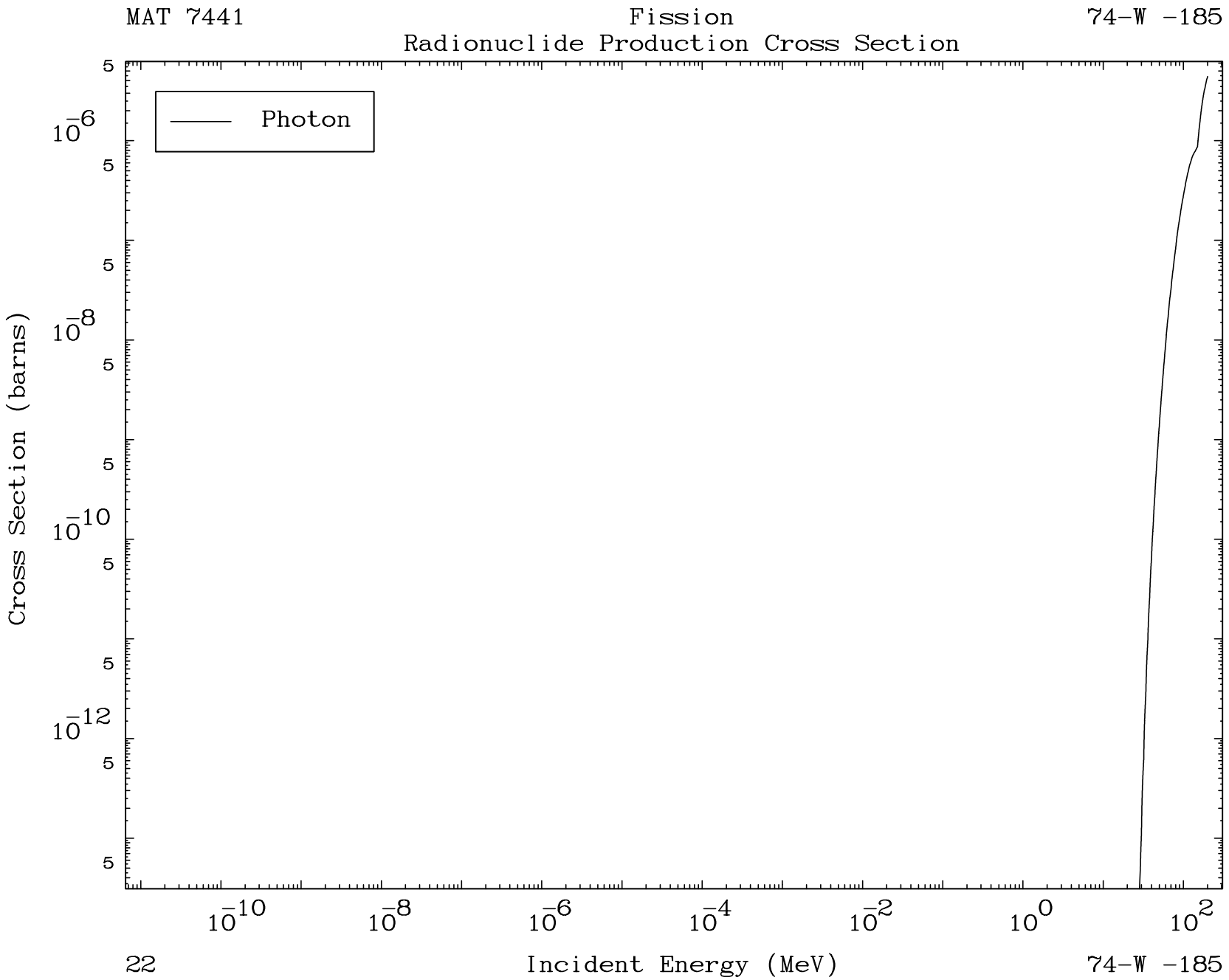

MAT 7441
Elastic
Legendre Coefficients
74-W -185
X10 -4
2.5
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
5
10
15
20
25
30
17
Incident Energy (MeV)
74-W -185

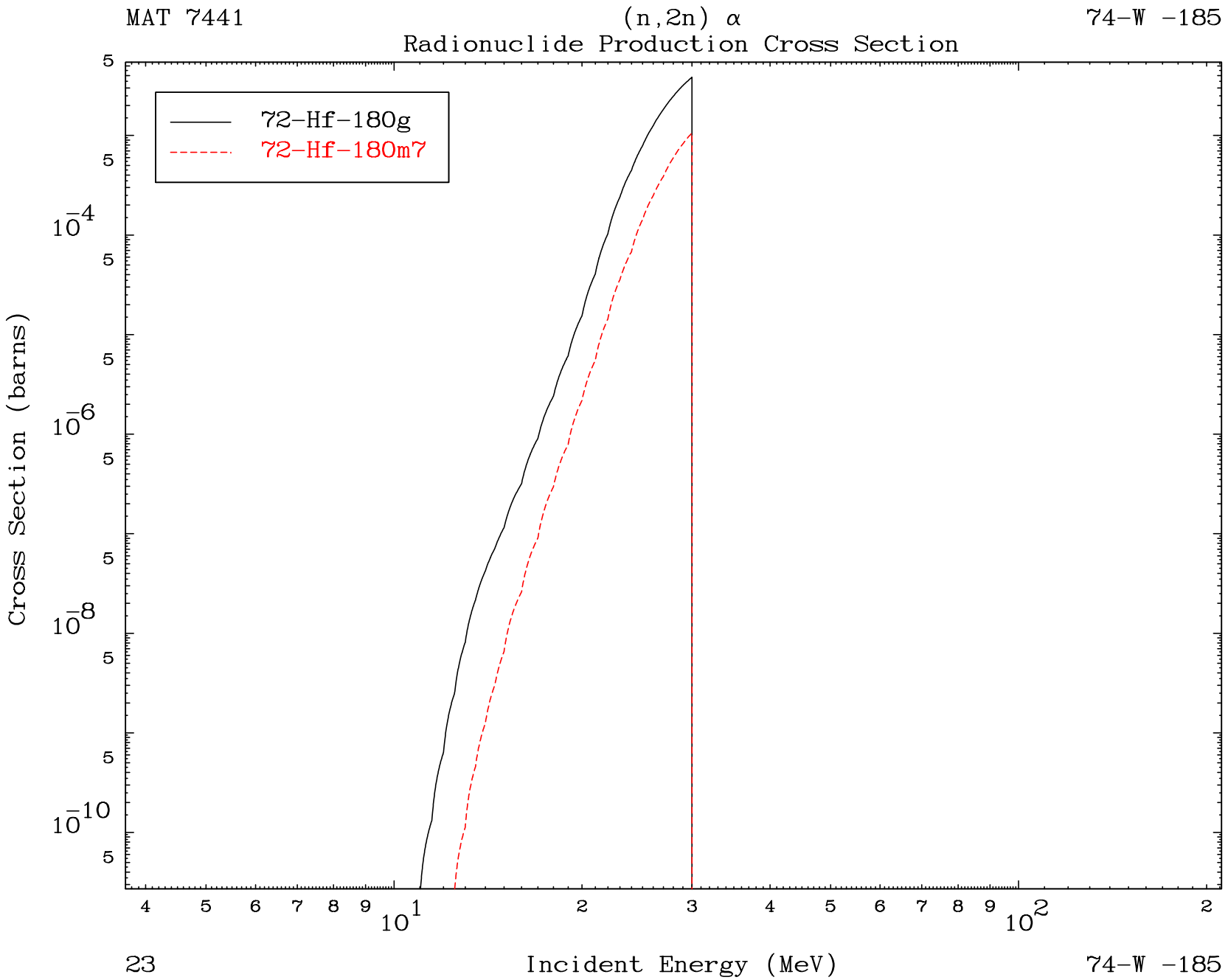

MAT 7441
Elastic
Legendre Coefficients
74-W -185
X10-6
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
15
20
25
30
18
Incident Energy (MeV)
74-W -185

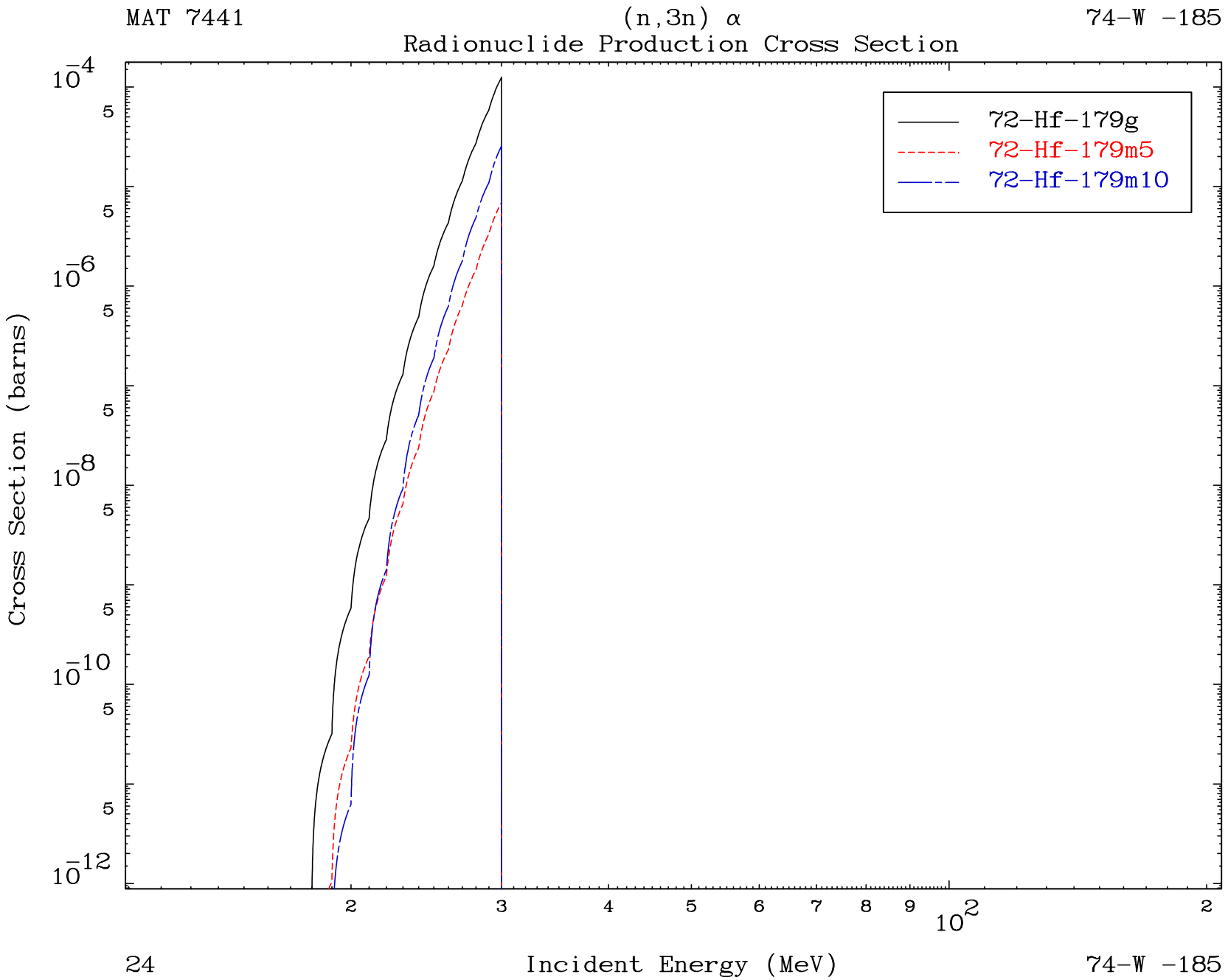

MAT 7441
Inelastic
74-W -185
Radionuclide Production Cross Section
74-W -185g
74-W -185m6
Cross Section (barns)
Incident Energy (MeV)
19
74-W -185

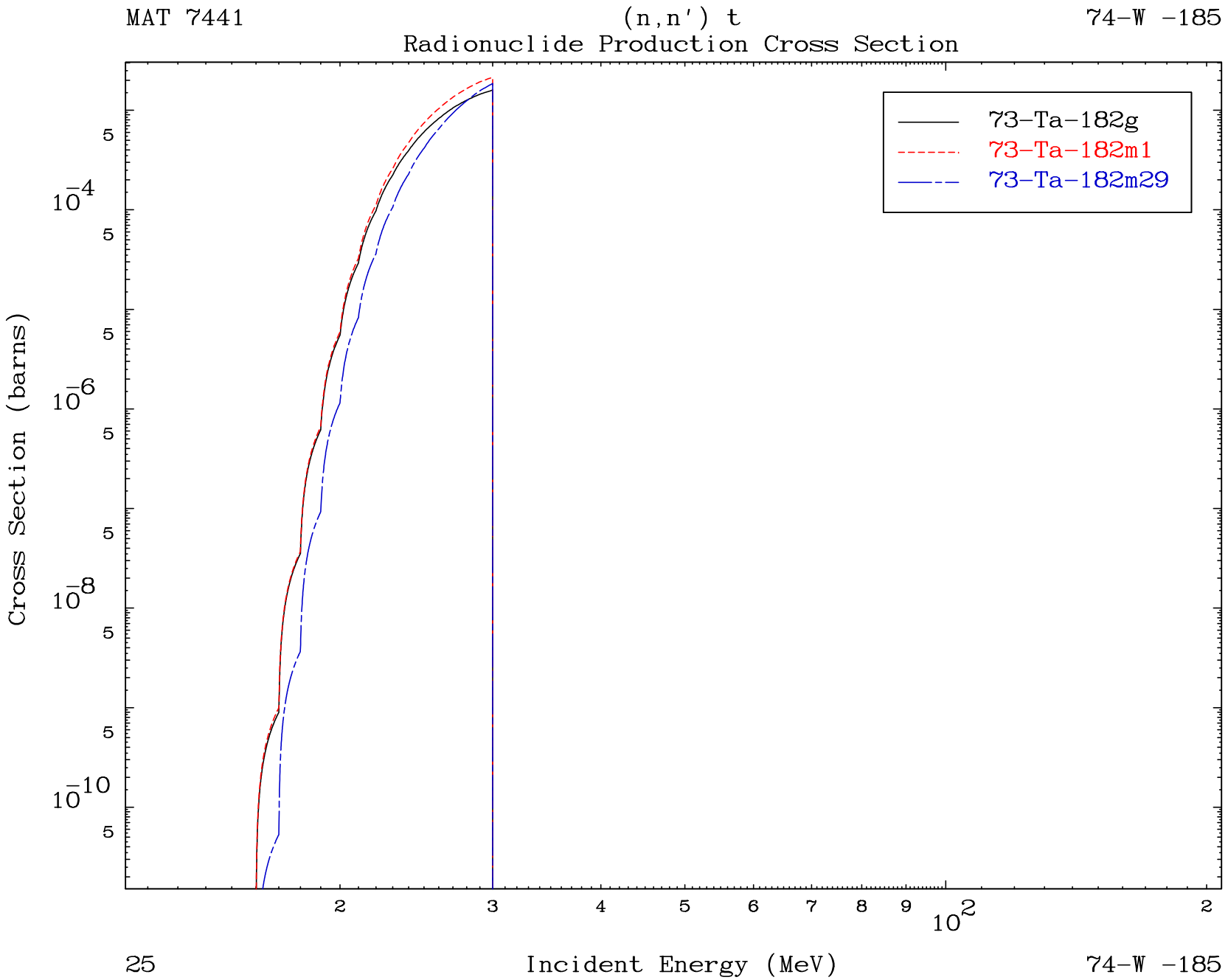

MAT 7441
(n,2n) d
74-W -185
Radionuclide Production Cross Section
73-Ta-182g
73-Ta-182m1
73-Ta-182m29
Cross Section (barns)
Incident Energy (MeV)
20
74-W -185

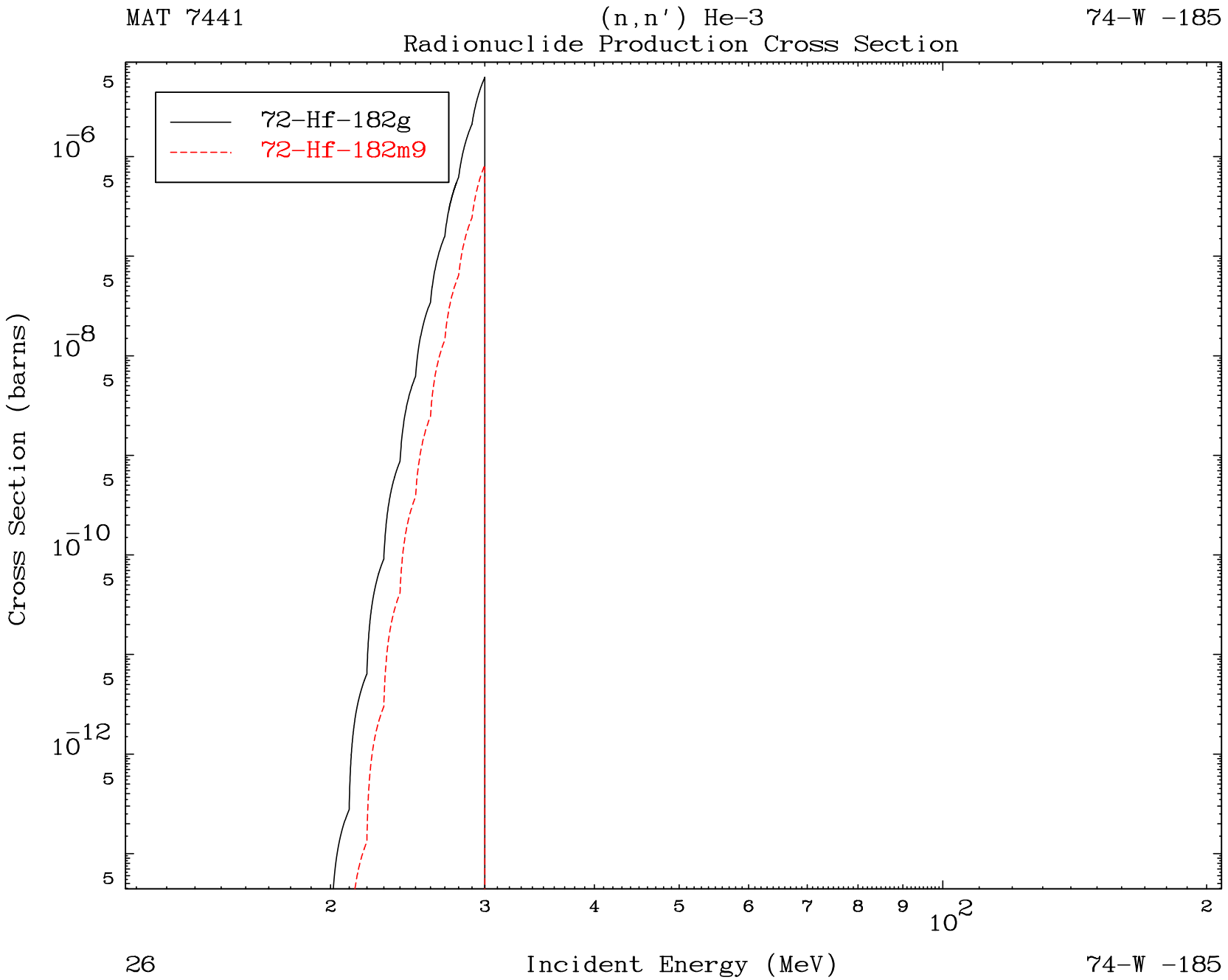

MAT 7441
(n,3n)
74-W -185
Radionuclide Production Cross Section
Cross Section (barns)
Incident Energy (MeV)
74-W -183g
74-W -183m7
21
74-W -185

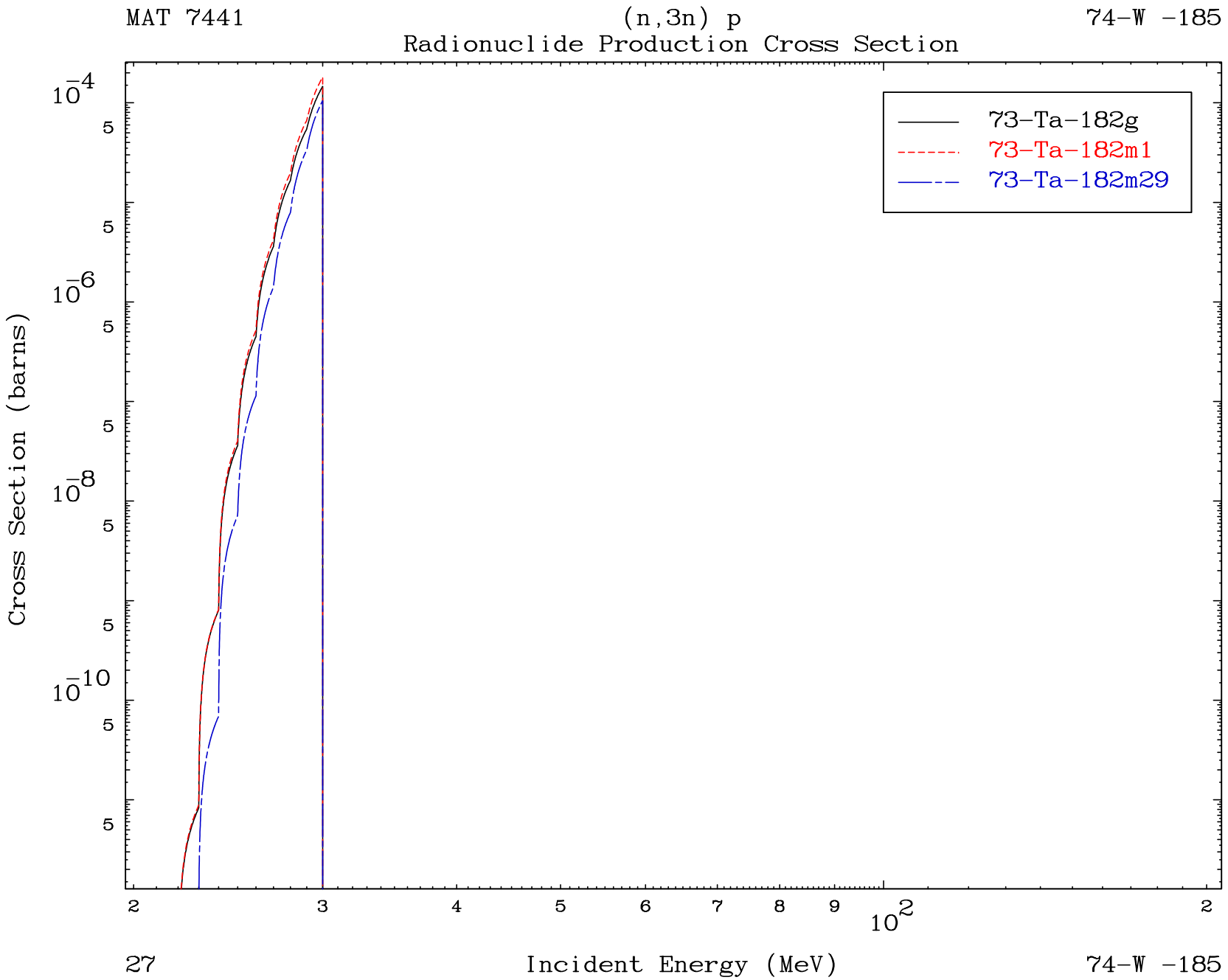

MAT 7441
Fission
74-W -185
Radionuclide Production Cross Section
Photon
Cross Section (barns)
Incident Energy (MeV)
22
74-W -185

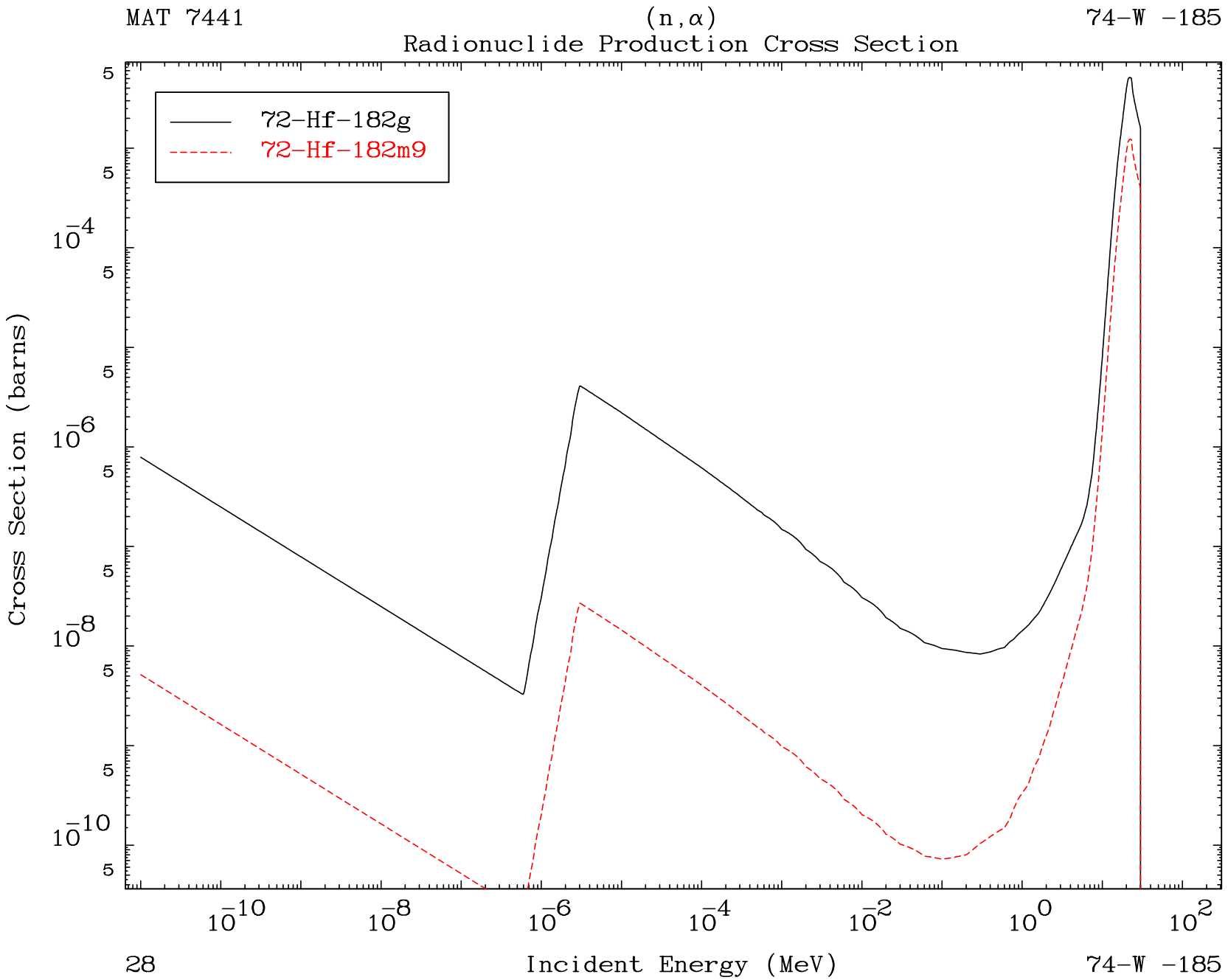

MAT 7441
(n,2n) α
74-W -185
Radionuclide Production Cross Section
72-Hf-180g
72-Hf-180m7
Cross Section (barns)
10-4
10-6
10-8
10-10
Incident Energy (MeV)
10 1
10 2
23
74-W -185

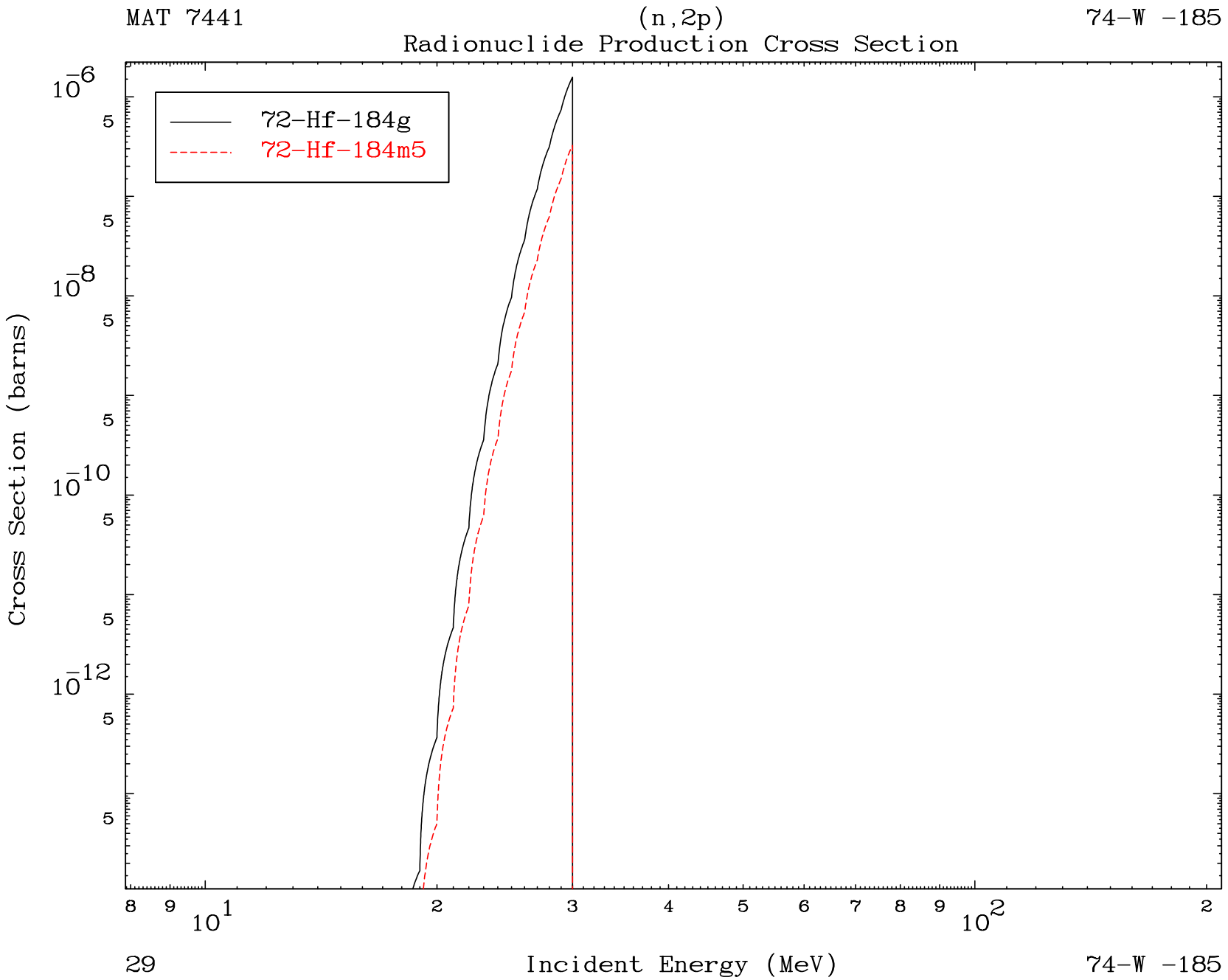

MAT 7441
(n,3n) α
74-W -185
Radionuclide Production Cross Section
72-Hf-179g
72-Hf-179m5
72-Hf-179m10
Cross Section (barns)
Incident Energy (MeV)
24
74-W -185


MAT 7441
(n,n') t
74-W -185
Radionuclide Production Cross Section
73-Ta-182g
73-Ta-182m1
73-Ta-182m29
Cross Section (barns)
10-4
10-6
10-8
10-10
2
3
4
5
6
7
8
9
10 2
2
25
Incident Energy (MeV)
74-W -185


MAT 7441
(n,n') He-3
74-W -185
Radionuclide Production Cross Section
72-Hf-182g
72-Hf-182m9
Cross Section (barns)
10-6
10-8
10-10
10-12
5
2
3
4
5
6
7
8
9
10 2
2
26
Incident Energy (MeV)
74-W -185


MAT 7441
(n,3n) p
74-W -185
Radionuclide Production Cross Section
73-Ta-182g
73-Ta-182m1
73-Ta-182m29
Cross Section (barns)
Incident Energy (MeV)
27
74-W -185


MAT 7441
(n,α)
74-W -185
Radionuclide Production Cross Section
72-Hf-182g
72-Hf-182m9
Cross Section (barns)
Incident Energy (MeV)
28
74-W -185


MAT 7441
(n,2p)
74-W -185
Radionuclide Production Cross Section
72-Hf-184g
72-Hf-184m5
Cross Section (barns)
Incident Energy (MeV)
29
74-W -185