Program EVALPLOT
(Version 2017-1)
by
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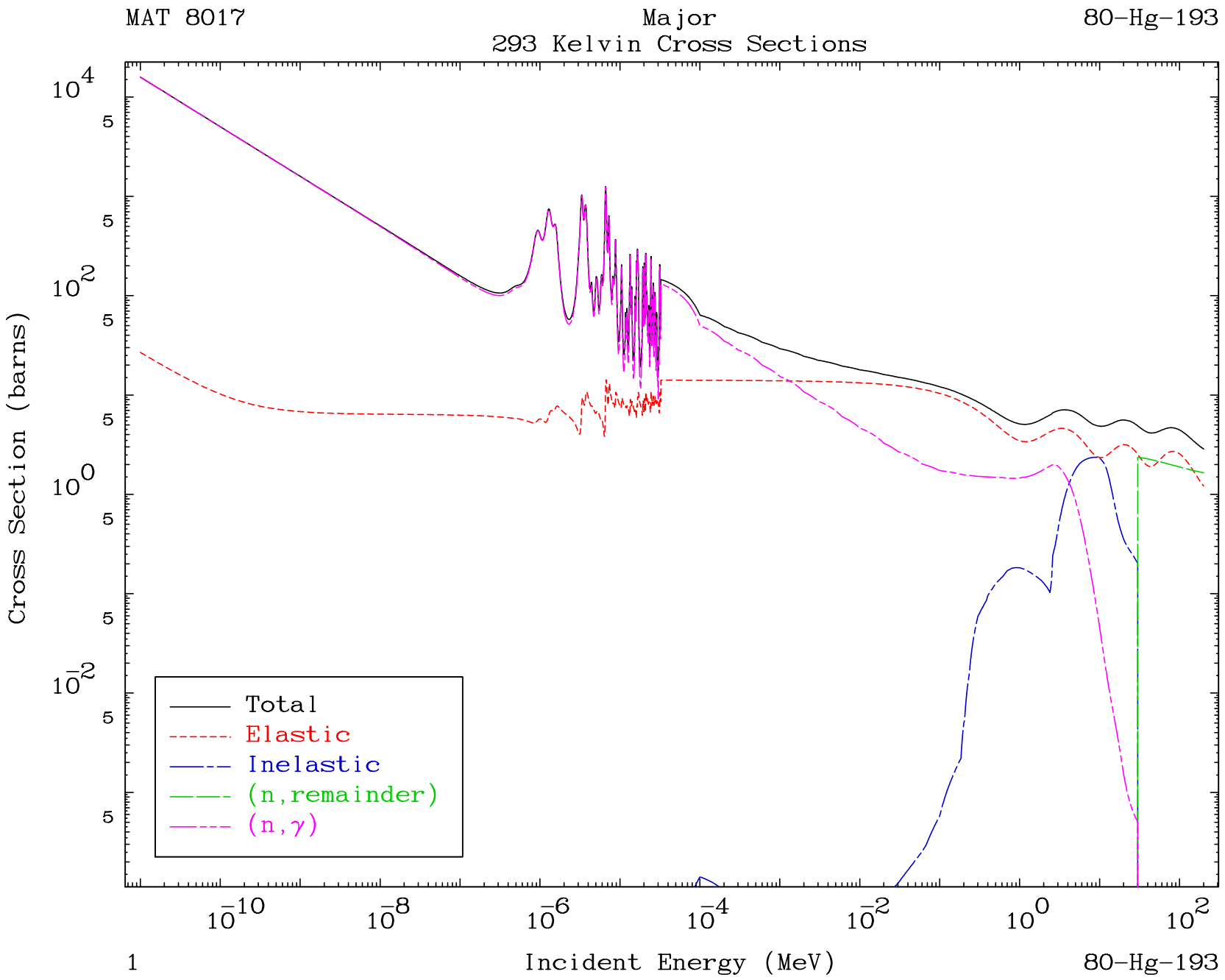
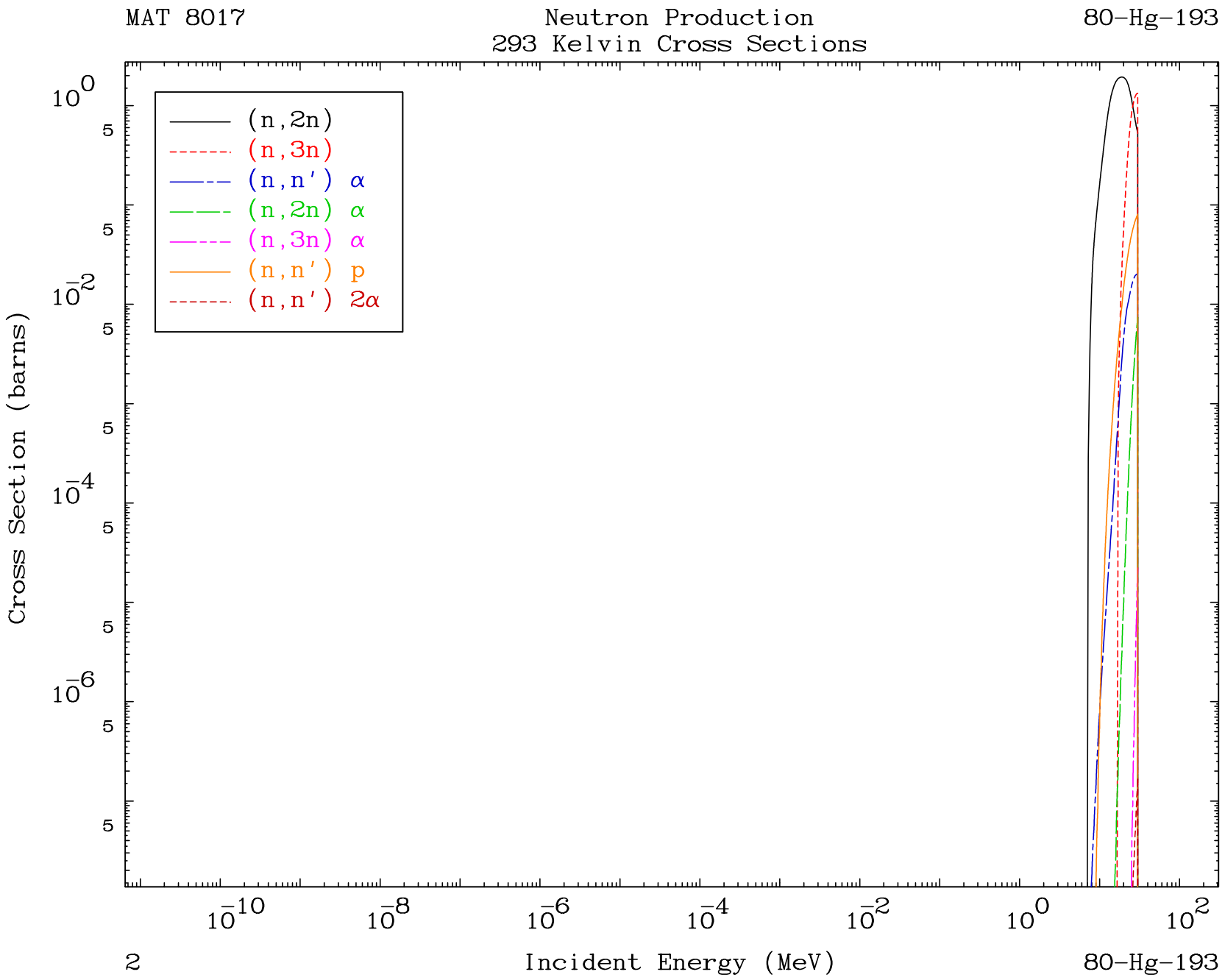
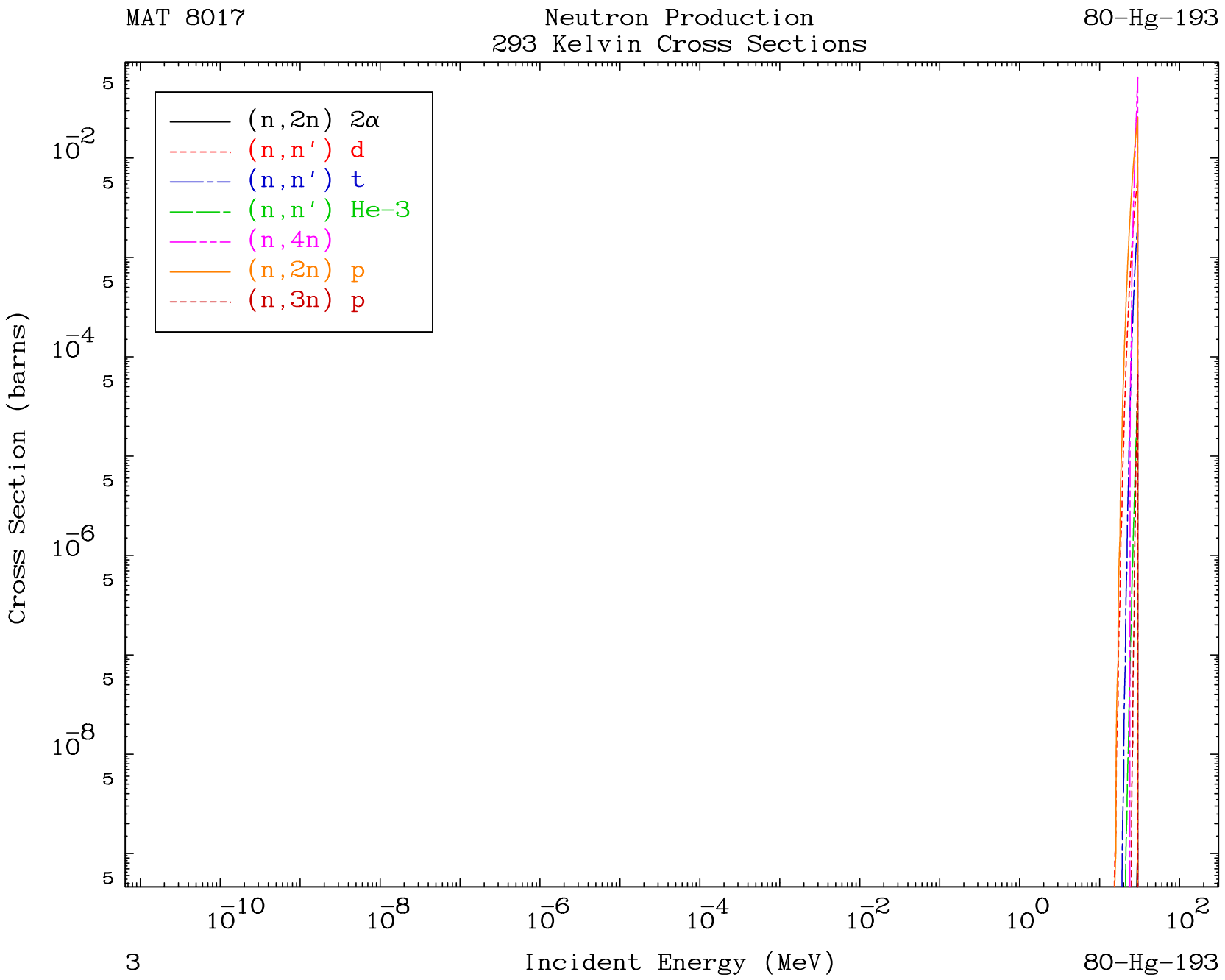
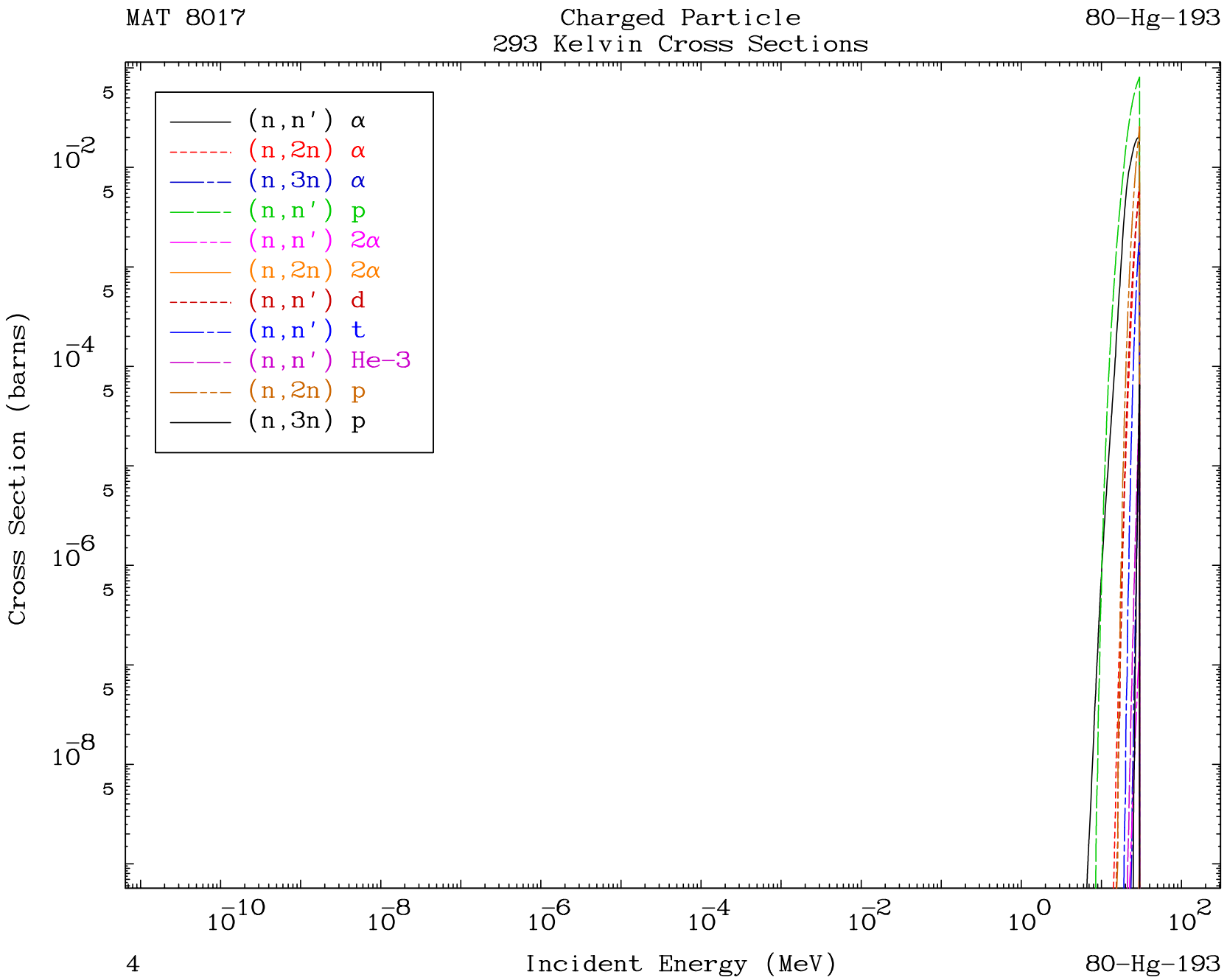
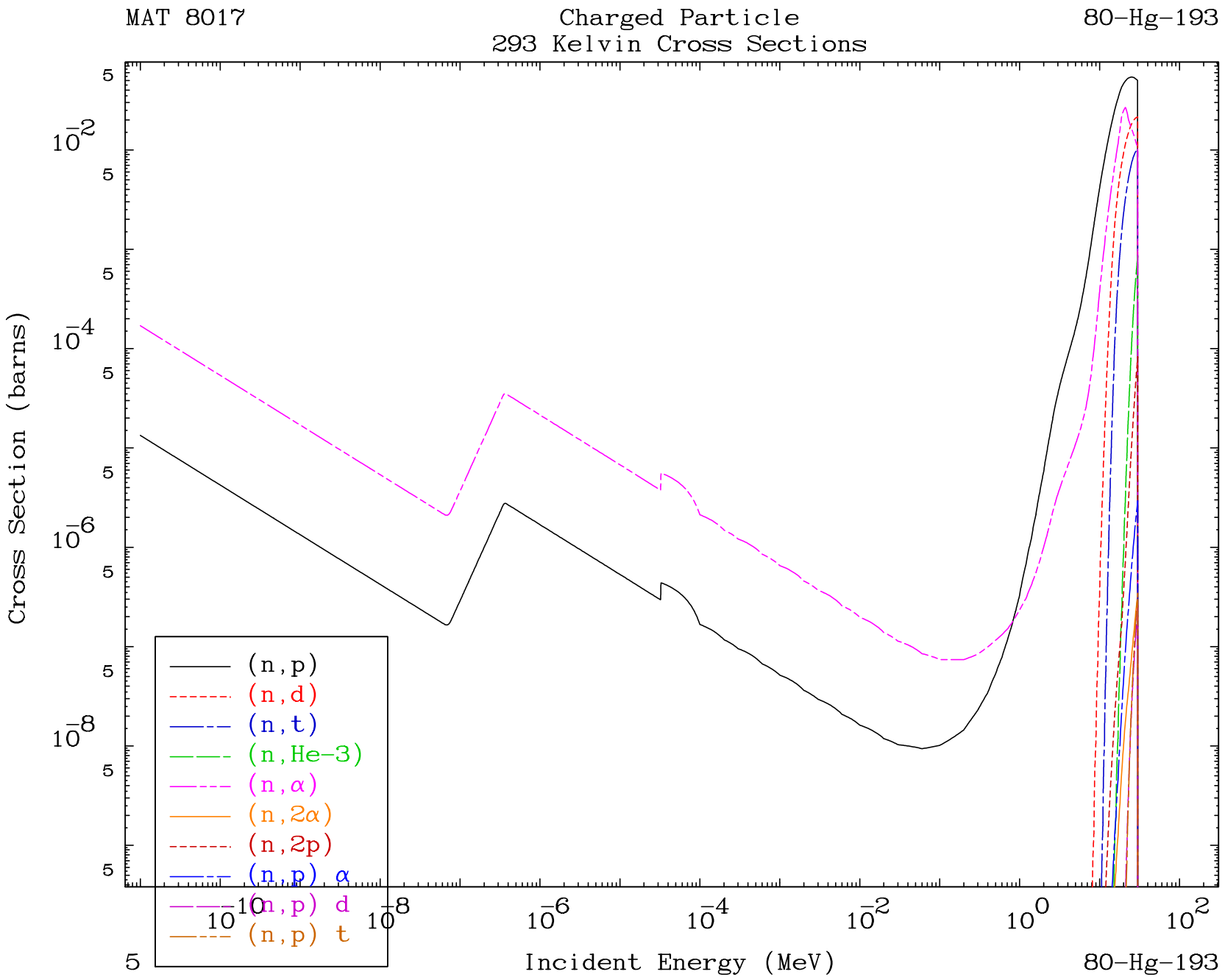
Press Mouse Button to Start

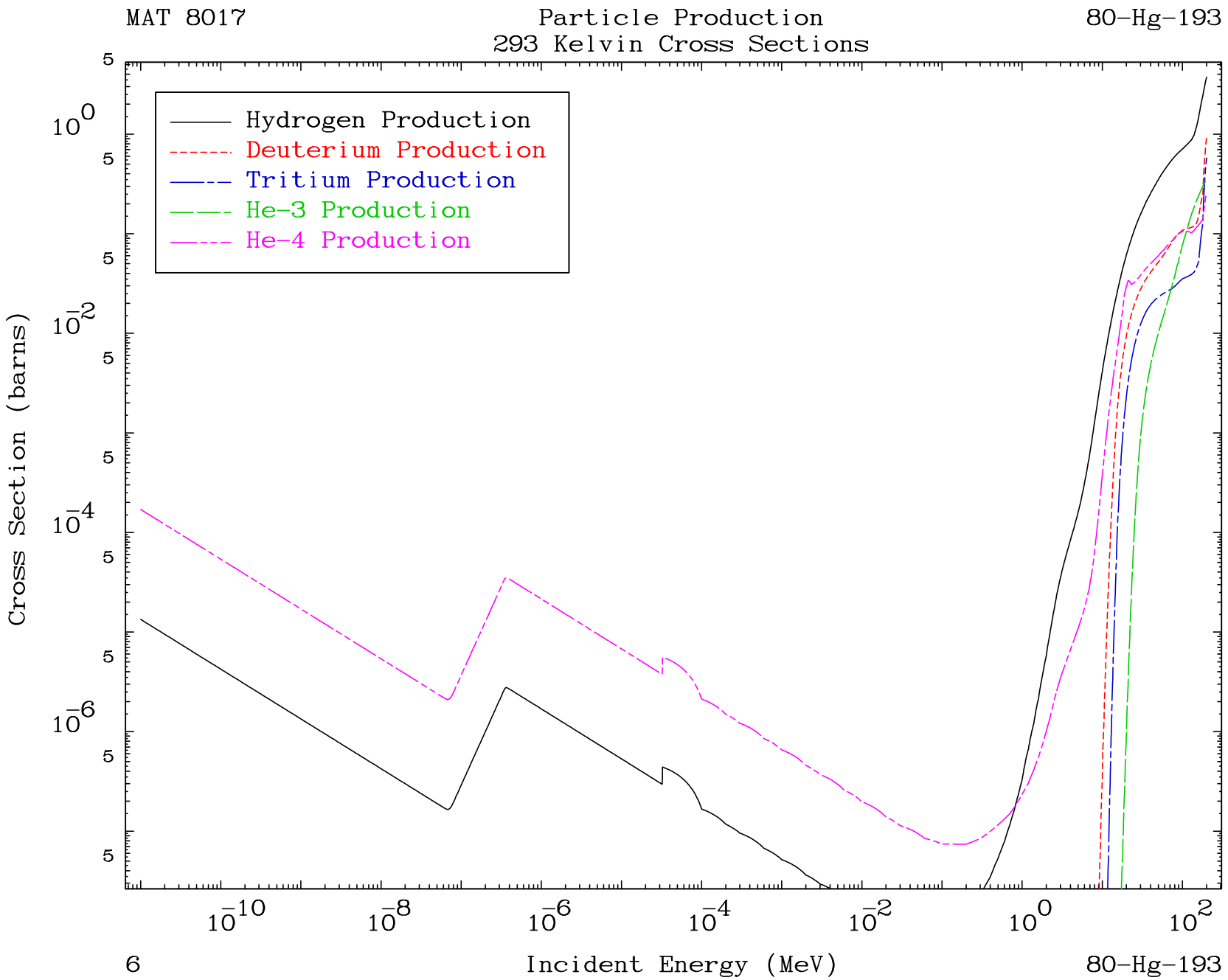

MAT 8017
Major
80-Hg-193
293 Kelvin Cross Sections
Cross Section (barns)
Incident Energy (MeV)
80-Hg-193
1
Total
Elastic
Inelastic
(n,remainder)
(n,γ)

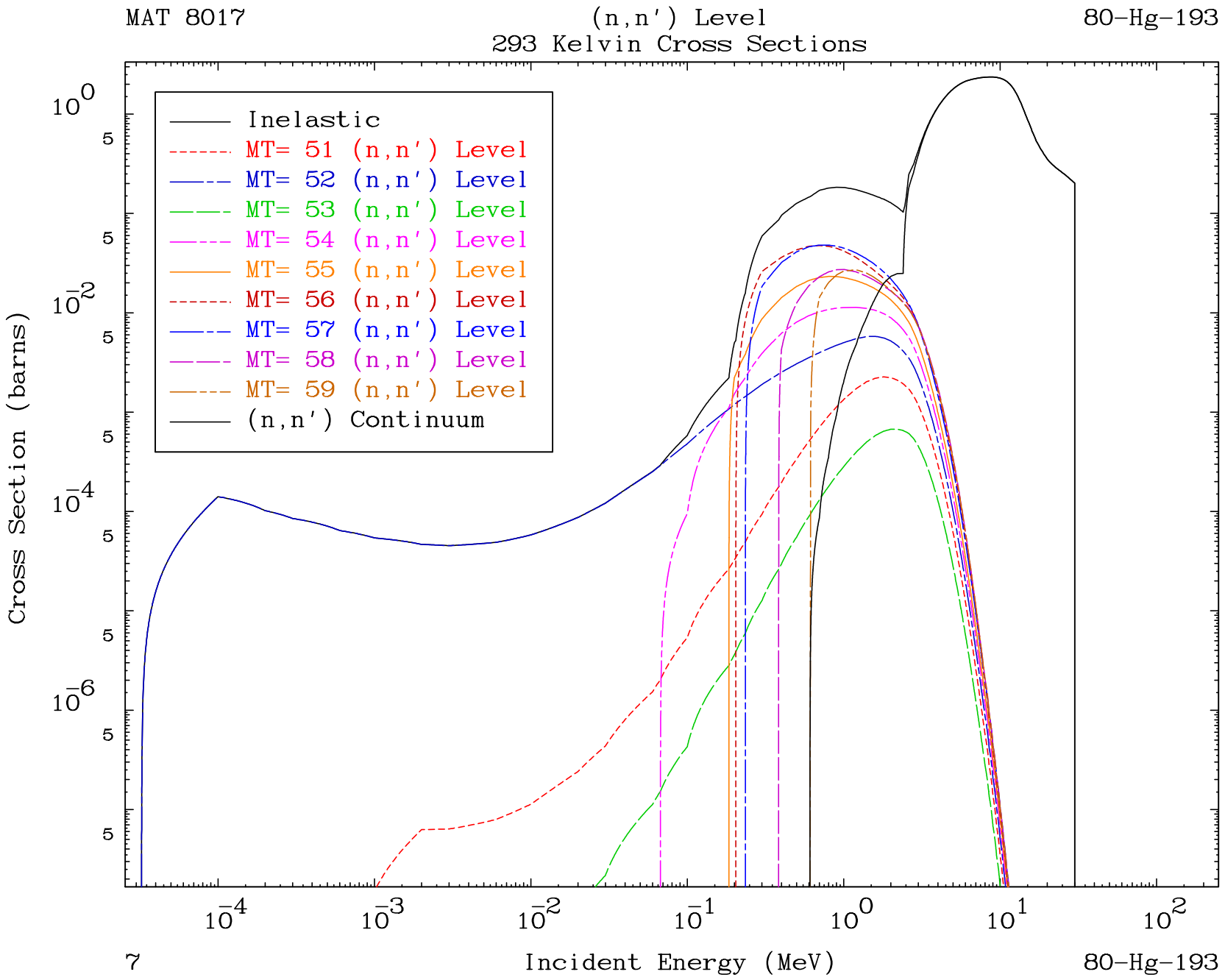

MAT 8017
Neutron Production
293 Kelvin Cross Sections
80-Hg-193
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
Cross Section (barns)
Incident Energy (MeV)
80-Hg-193
2

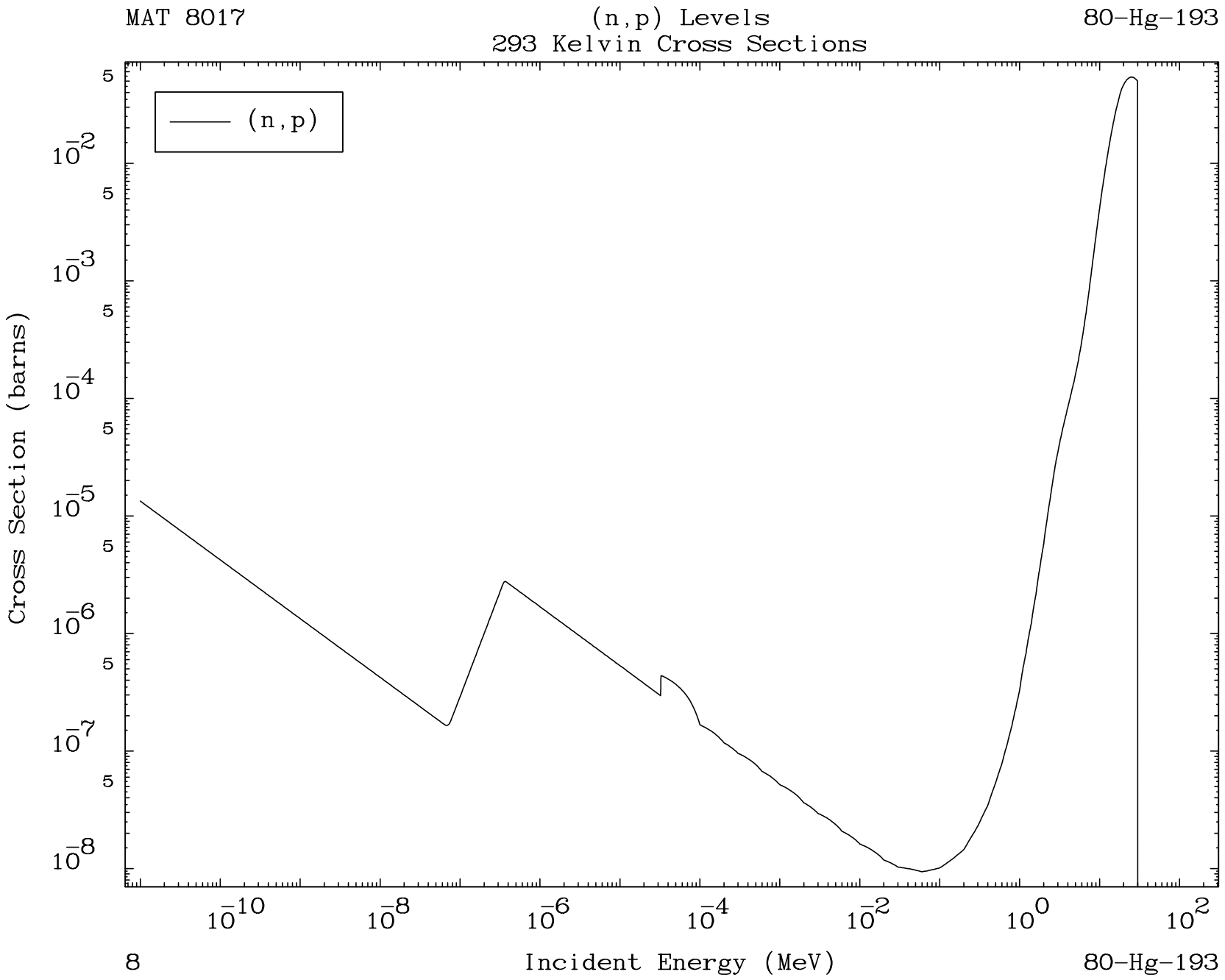

MAT 8017
Neutron Production
293 Kelvin Cross Sections
80-Hg-193
(n,2n) 2α
(n,n') d
(n,n') t
(n,n') He-3
(n,4n)
(n,2n) p
(n,3n) p
Cross Section (barns)
Incident Energy (MeV)
3
80-Hg-193

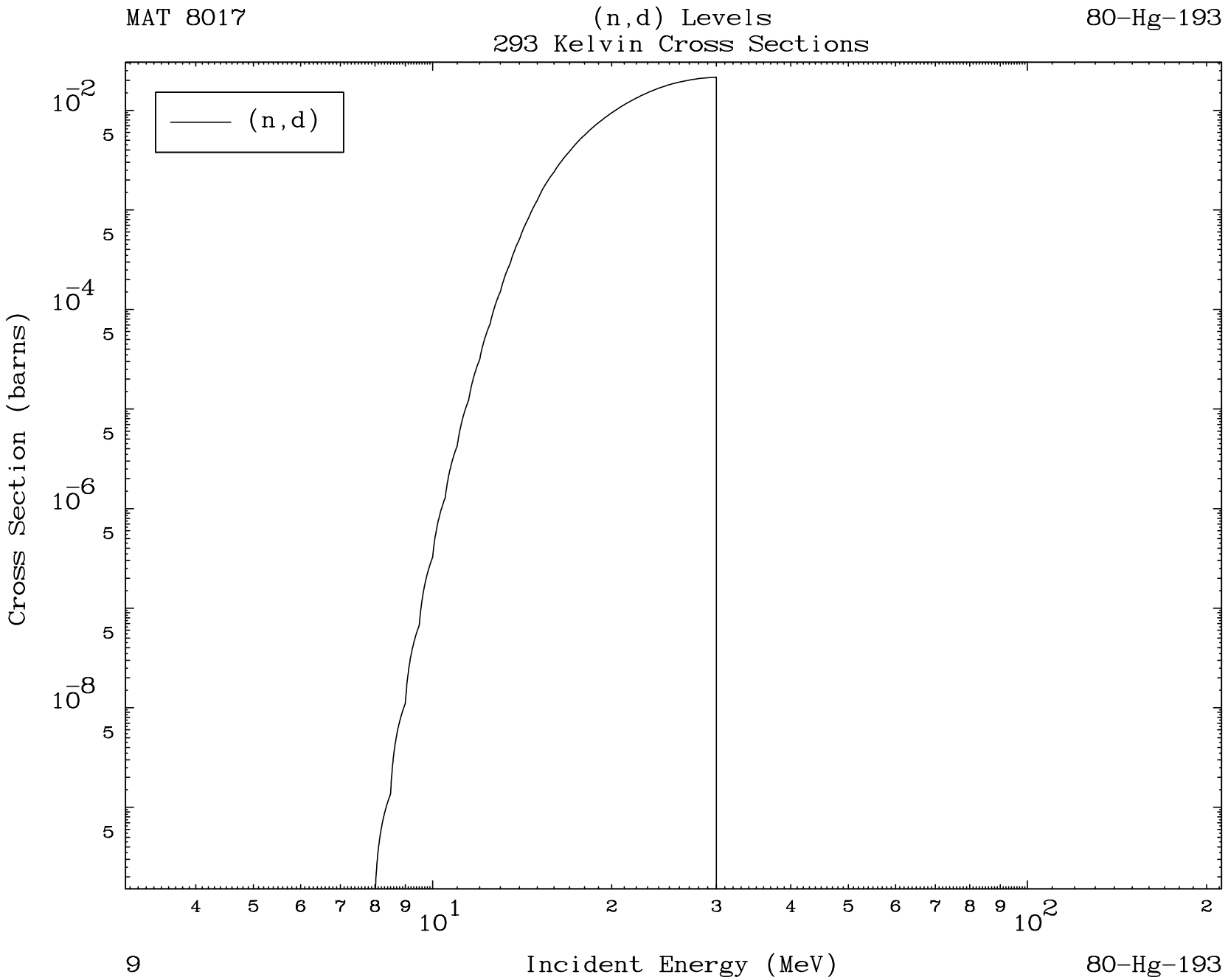

MAT 8017
Charged Particle
293 Kelvin Cross Sections
80-Hg-193
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,2n) 2α
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
(n,3n) p
Cross Section (barns)
Incident Energy (MeV)
4
80-Hg-193

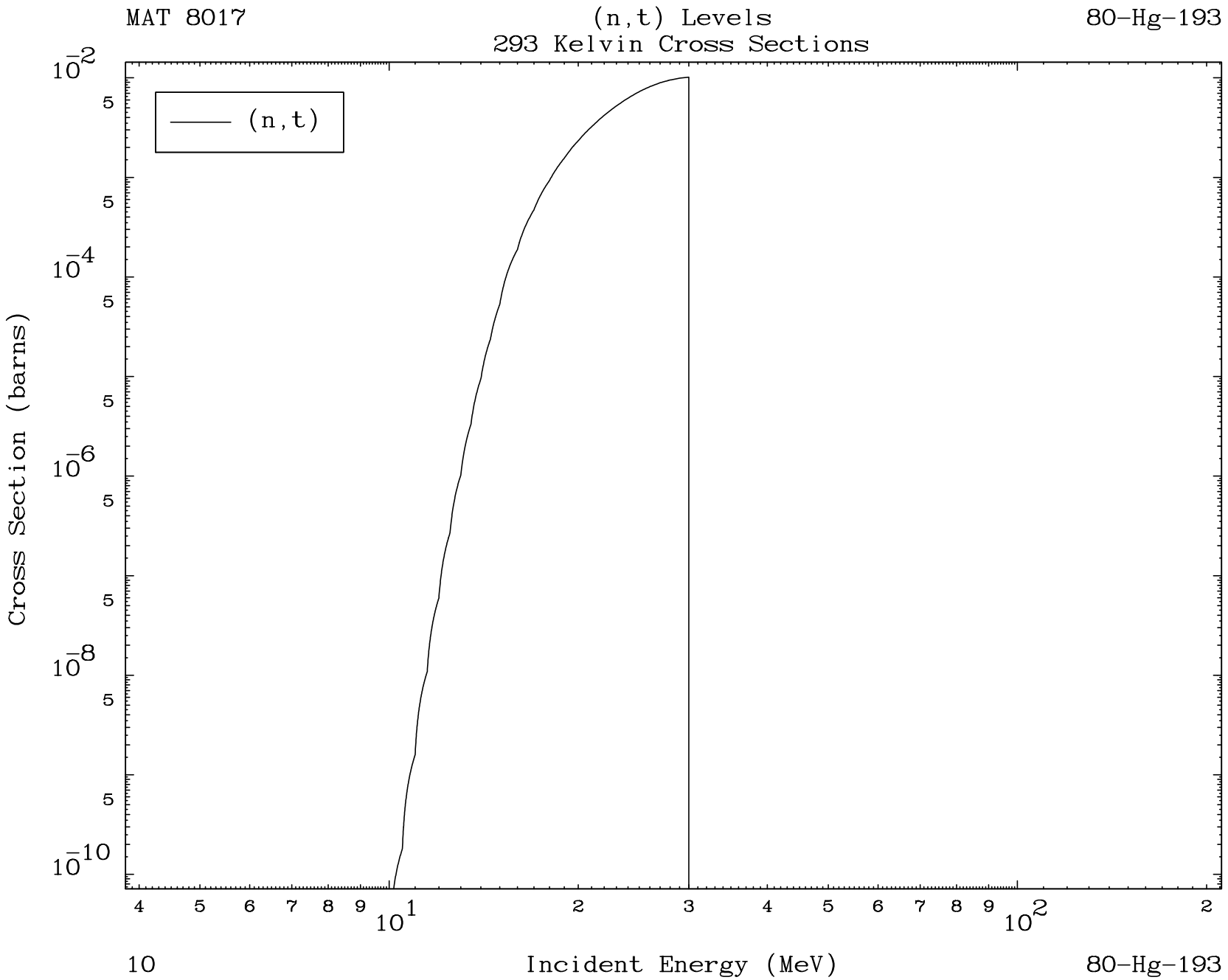

MAT 8017
Charged Particle
293 Kelvin Cross Sections
80-Hg-193
Cross Section (barns)
Incident Energy (MeV)
80-Hg-193
(n,p)
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t

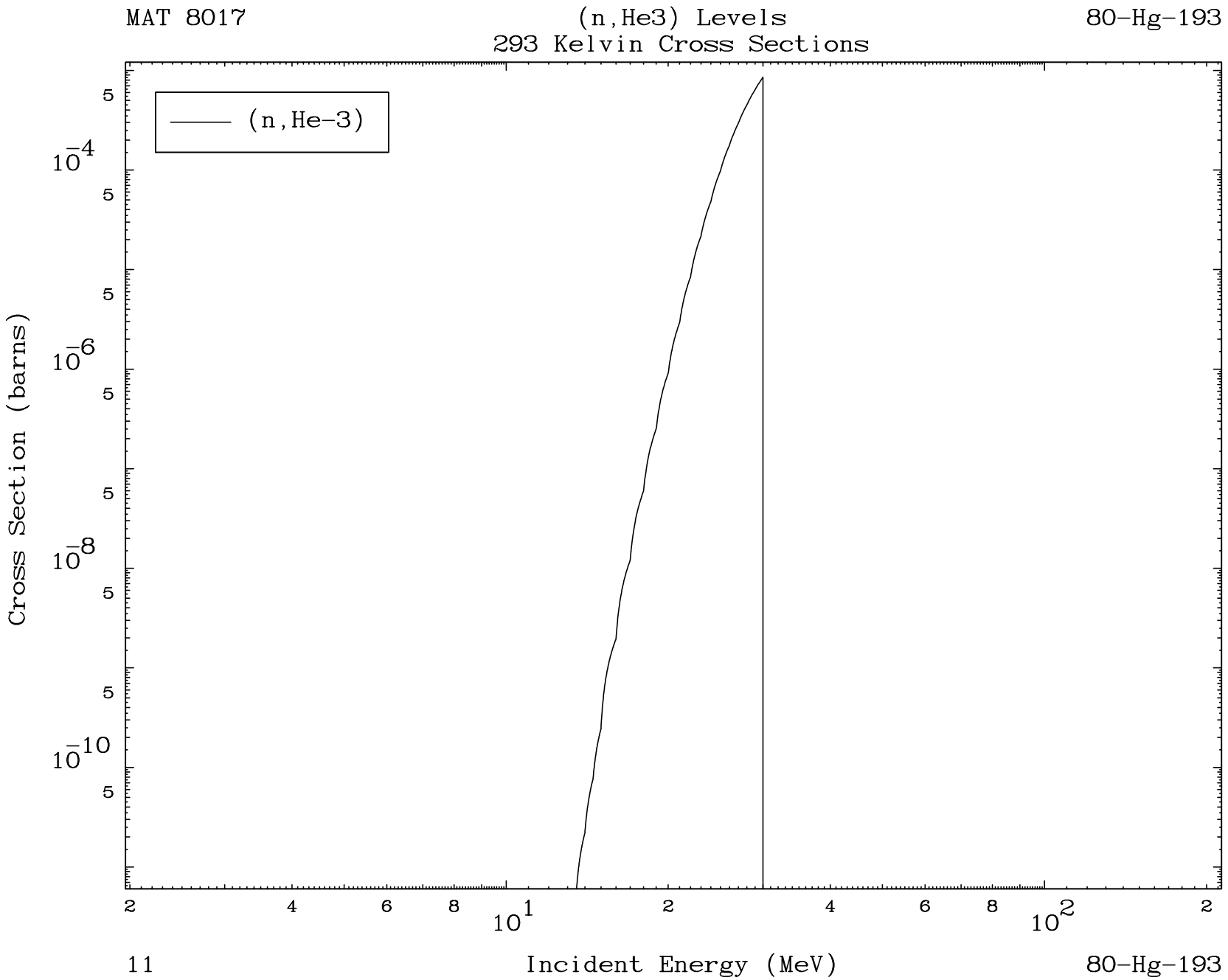

MAT 8017
Particle Production
293 Kelvin Cross Sections
80-Hg-193
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production
Cross Section (barns)
Incident Energy (MeV)
6
80-Hg-193

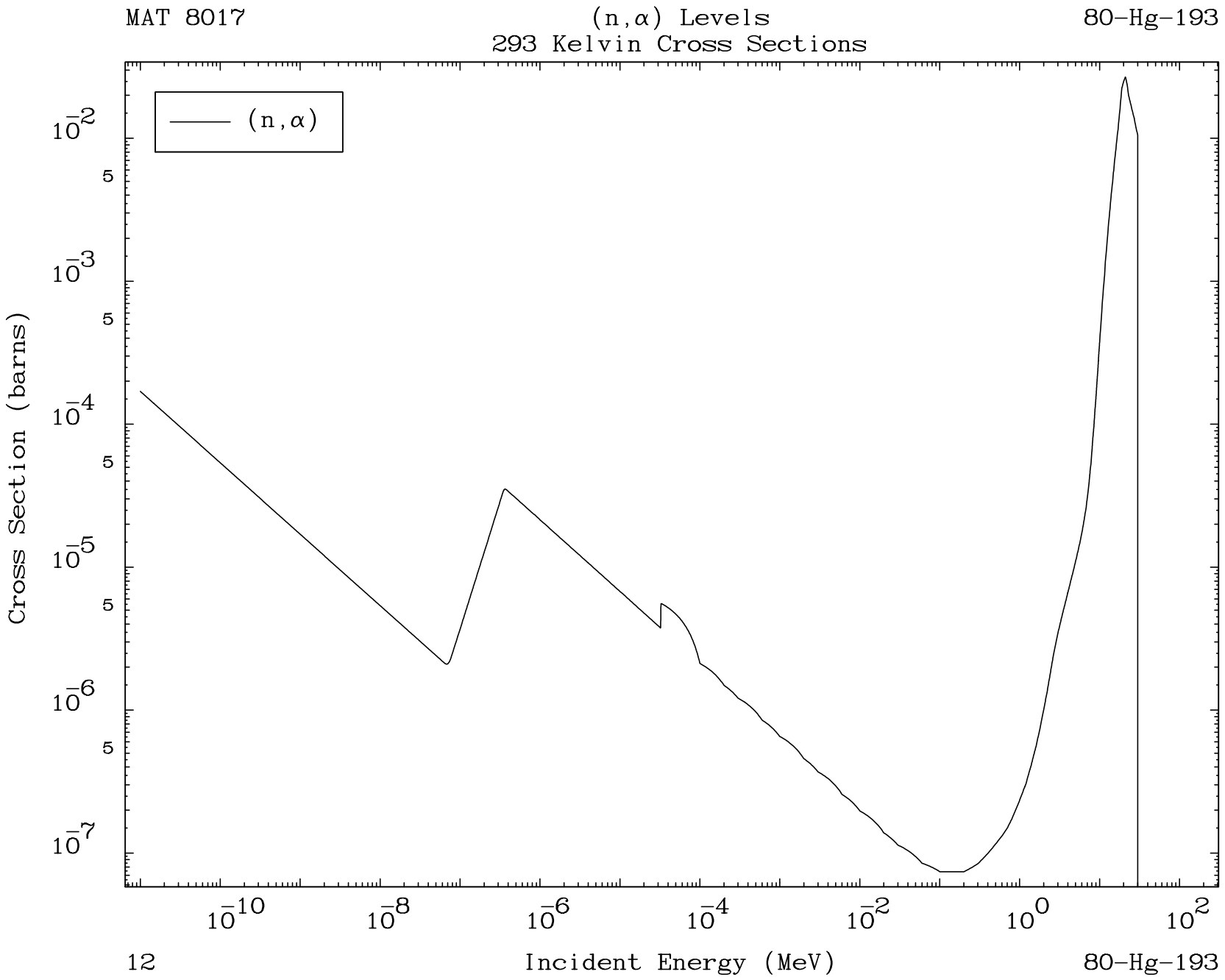

MAT 8017
(n,n') Level
80-Hg-193
293 Kelvin Cross Sections
Inelastic
MT= 51 (n,n') Level
MT= 52 (n,n') Level
MT= 53 (n,n') Level
MT= 54 (n,n') Level
MT= 55 (n,n') Level
MT= 56 (n,n') Level
MT= 57 (n,n') Level
MT= 58 (n,n') Level
MT= 59 (n,n') Level
(n,n') Continuum
Cross Section (barns)
Incident Energy (MeV)
7
80-Hg-193

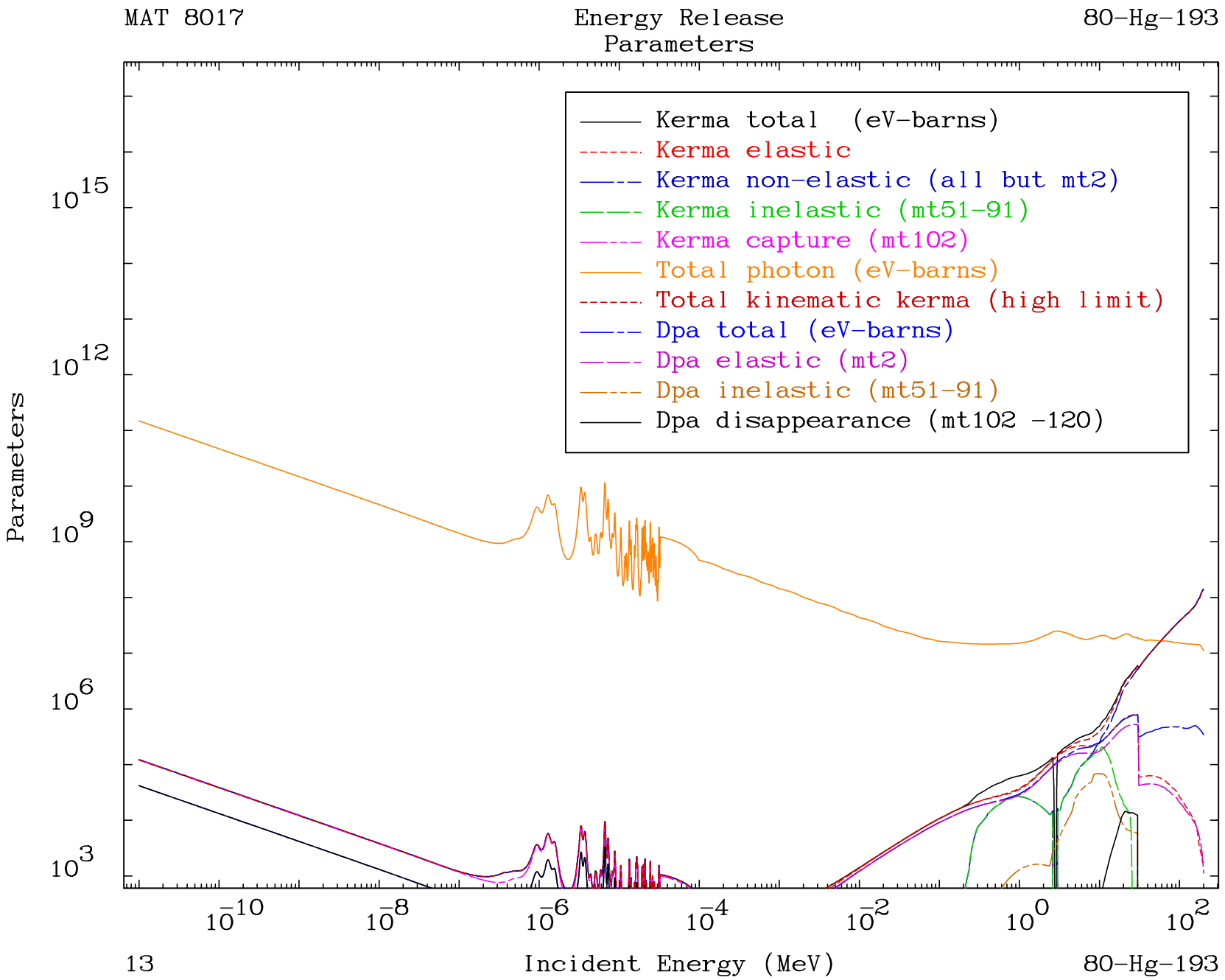

MAT 8017
(n,p) Levels
80-Hg-193
293 Kelvin Cross Sections
(n,p)
Cross Section (barns)
Incident Energy (MeV)
8
80-Hg-193

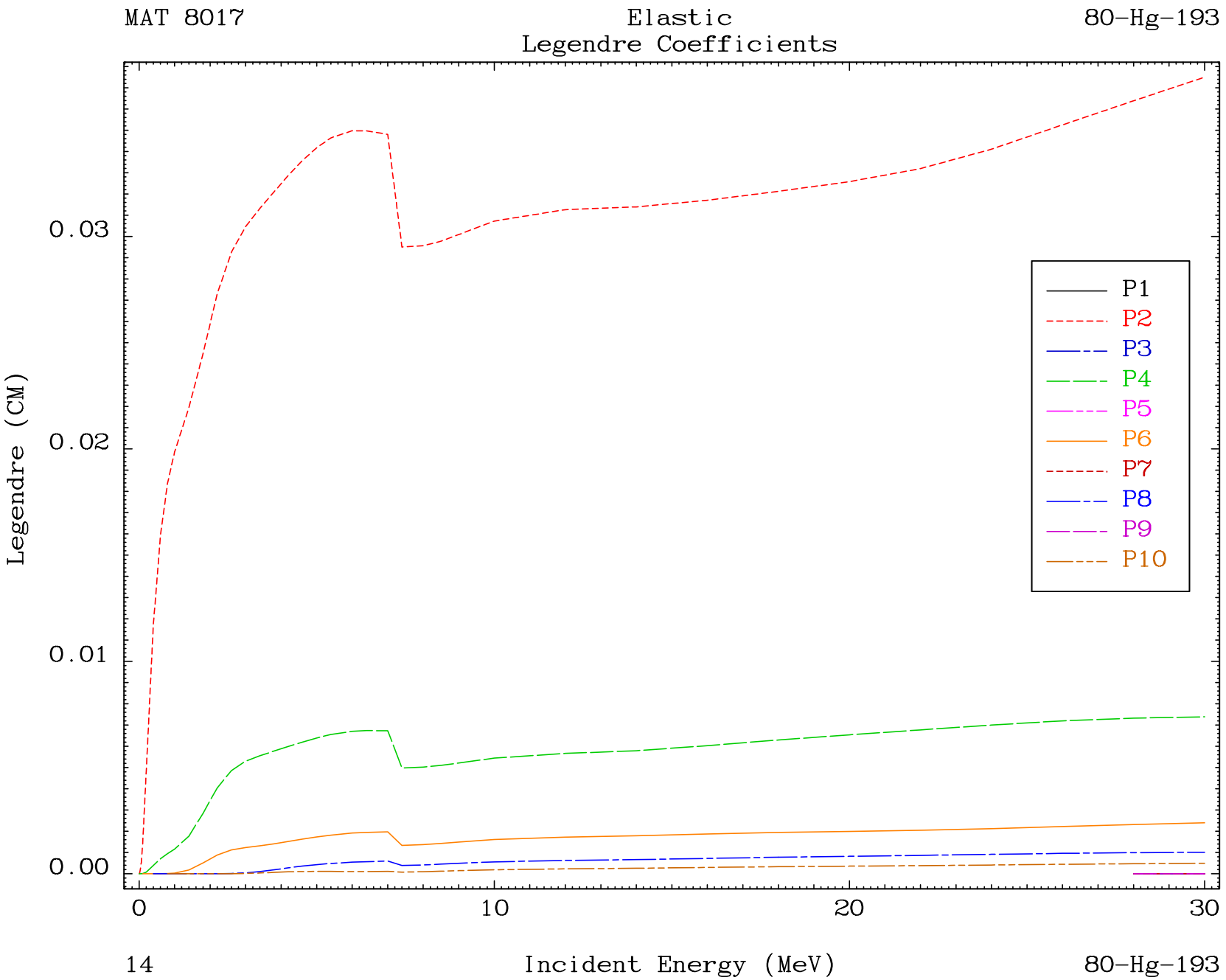

MAT 8017
(n,d) Levels
80-Hg-193
293 Kelvin Cross Sections
(n,d)
Cross Section (barns)
Incident Energy (MeV)
9
80-Hg-193

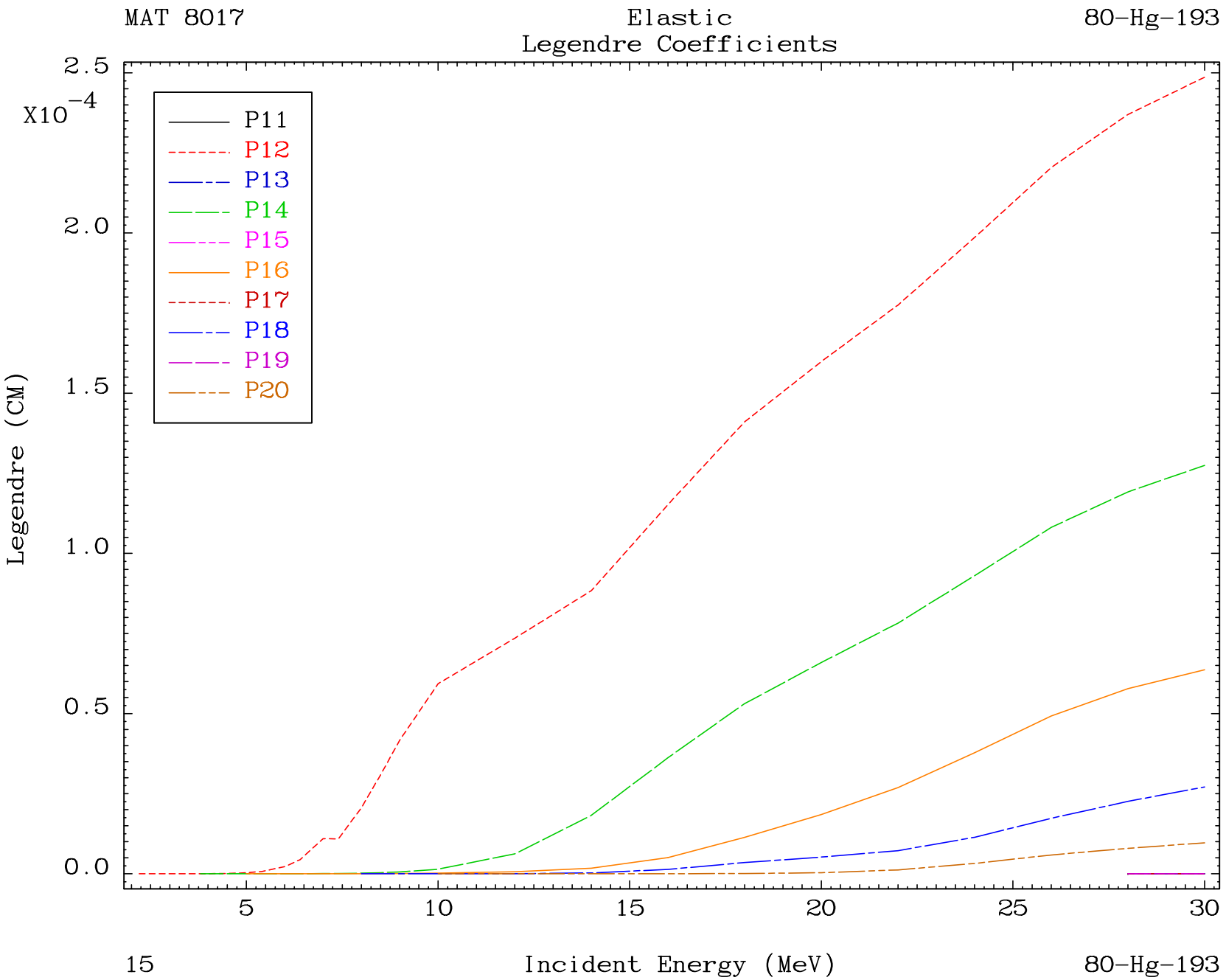

MAT 8017
(n,t) Levels
80-Hg-193
293 Kelvin Cross Sections
(n,t)
Cross Section (barns)
Incident Energy (MeV)
80-Hg-193

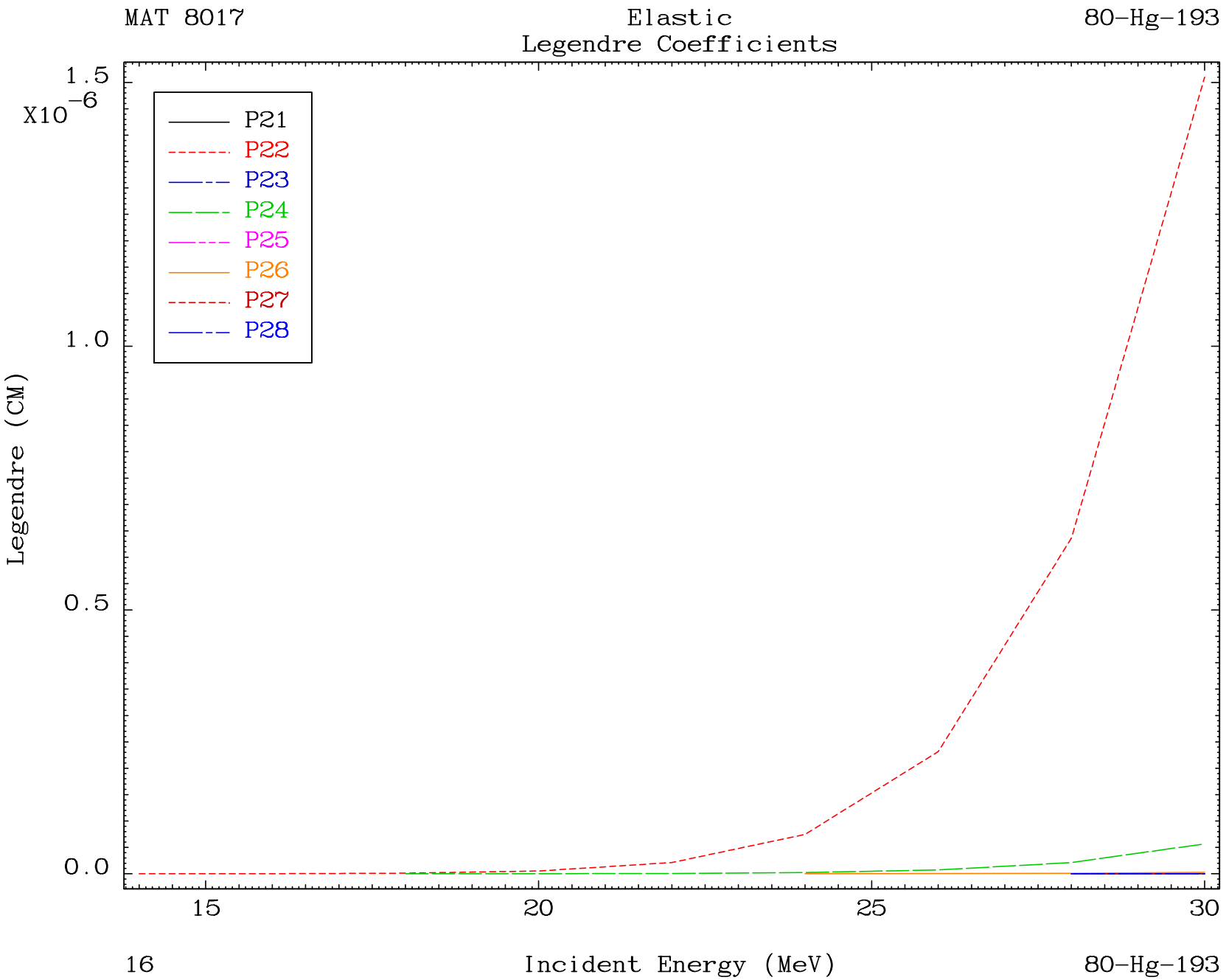

MAT 8017
(n,He3) Levels
80-Hg-193
293 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
10-4
10-6
10-8
10-10
5
2
4
6
8
10 1
10 2
11
Incident Energy (MeV)
80-Hg-193

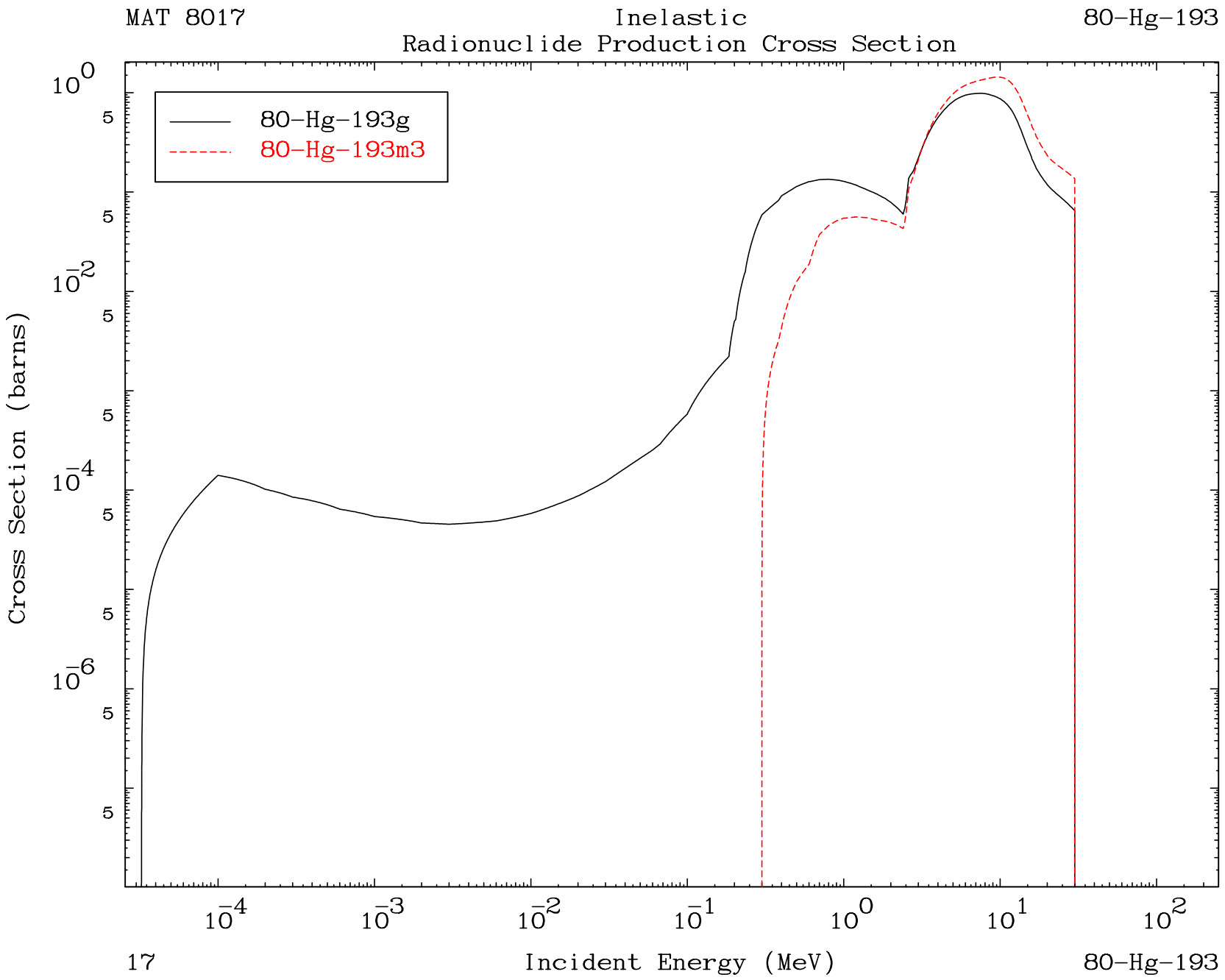

MAT 8017
(n,α) Levels
80-Hg-193
293 Kelvin Cross Sections
(n,α)
Cross Section (barns)
10-2
5
10-3
5
10-4
5
10-5
5
10-6
5
10-7
10-10
10-8
10-6
10-4
10-2
100
102
12
Incident Energy (MeV)
80-Hg-193

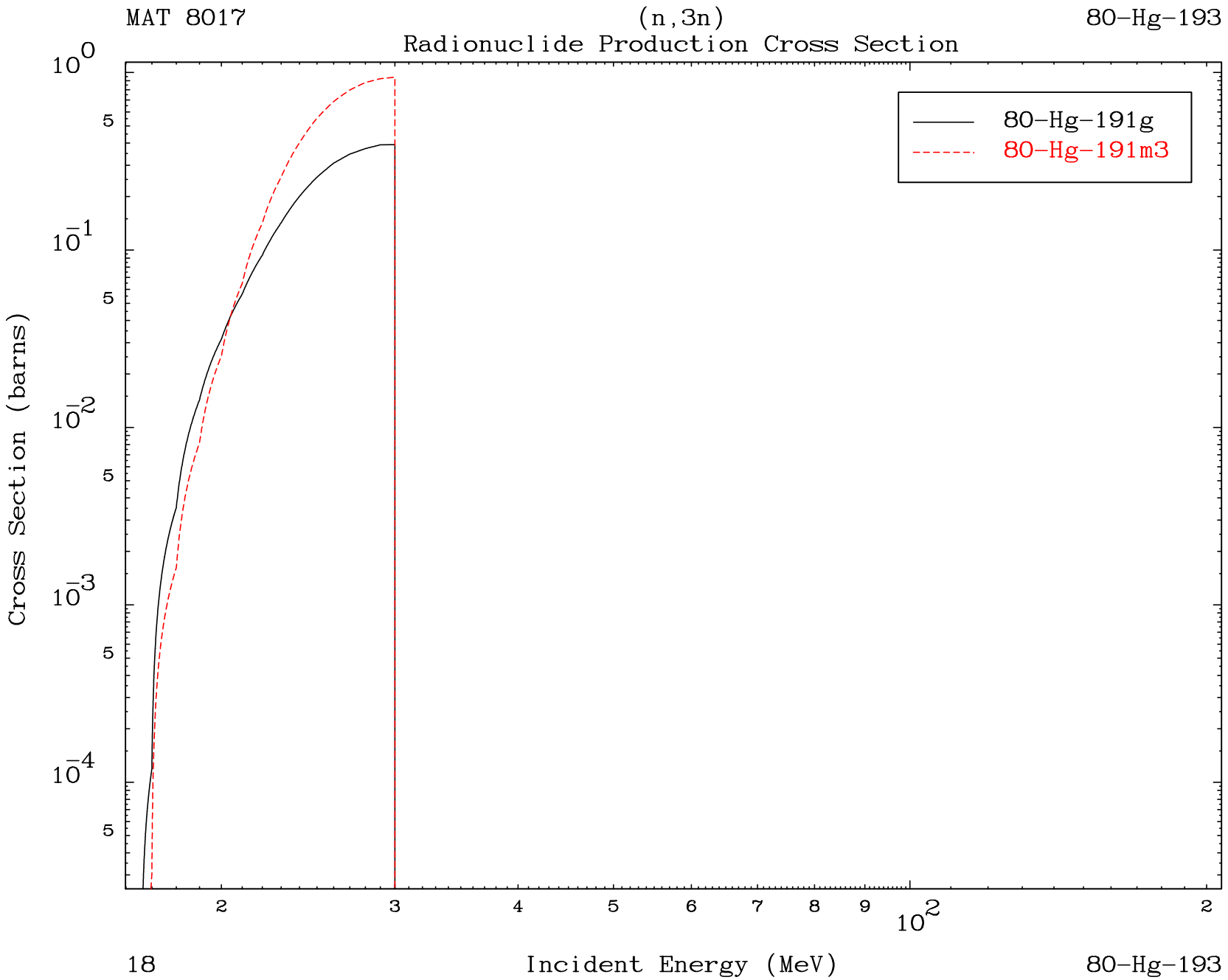

MAT 8017
Energy Release
Parameters
80-Hg-193
Kerma total (eV-barns)
Kerma elastic
Kerma non-elastic (all but mt2)
Kerma inelastic (mt51-91)
Kerma capture (mt102)
Total photon (eV-barns)
Total kinematic kerma (high limit)
Dpa total (eV-barns)
Dpa elastic (mt2)
Dpa inelastic (mt51-91)
Dpa disappearance (mt102 -120)
Parameters
10^15
10^12
10^9
10^6
10^3
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
13
Incident Energy (MeV)
80-Hg-193

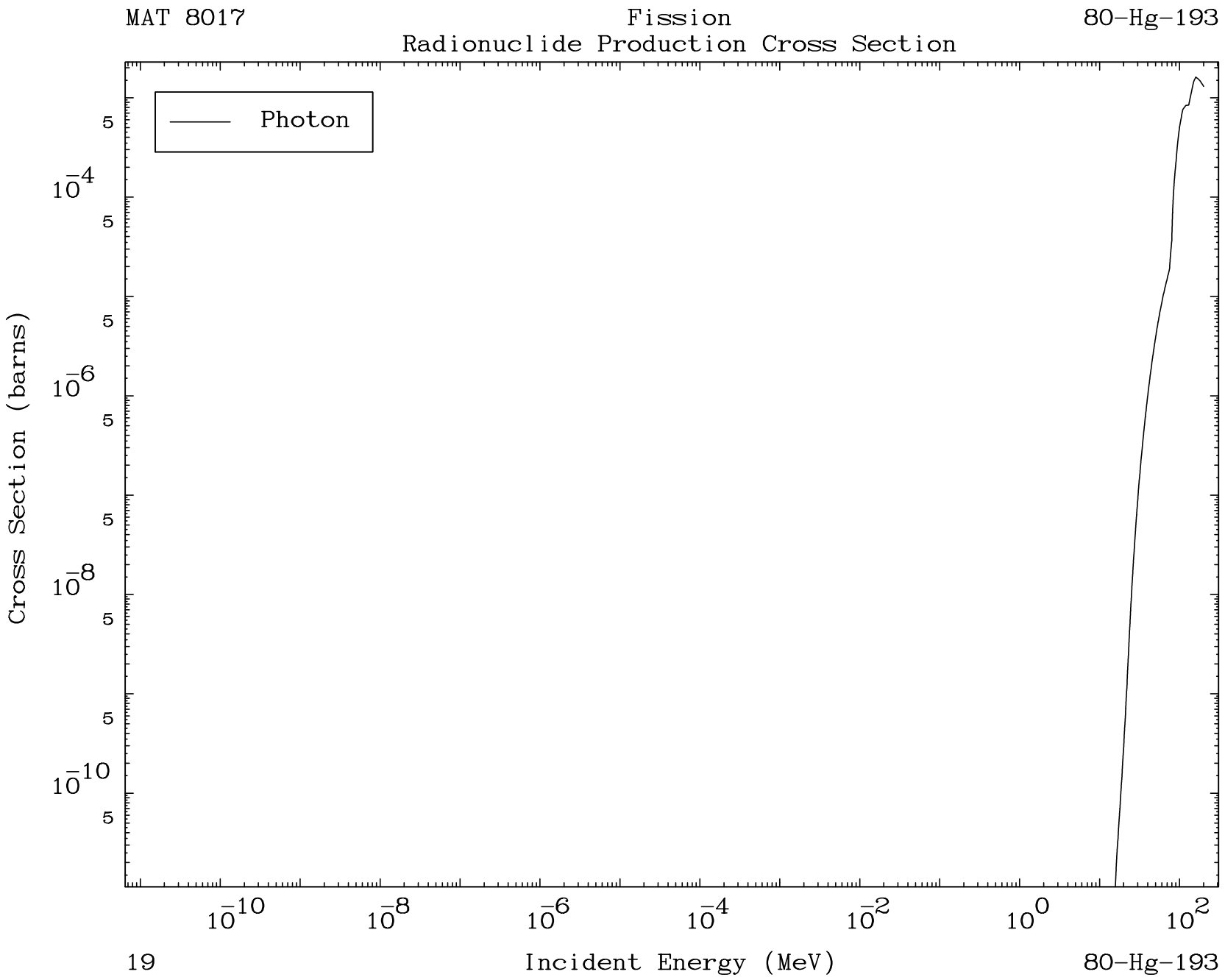

MAT 8017
Elastic
Legendre Coefficients
80-Hg-193
Legendre (CM)
0.03
0.02
0.01
0.00
0
10
20
30
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
14
Incident Energy (MeV)
80-Hg-193

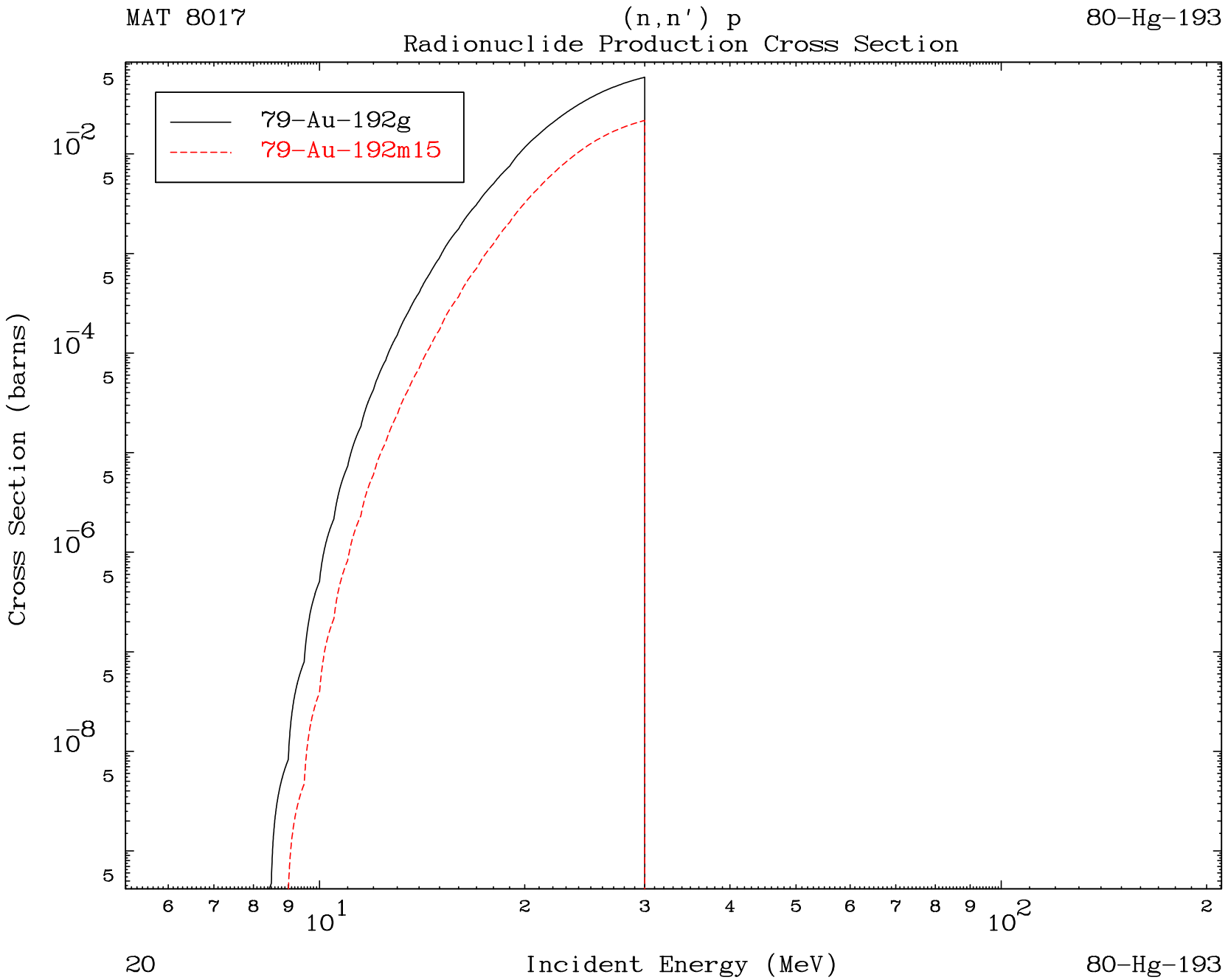

MAT 8017
Elastic
Legendre Coefficients
80-Hg-193
X10^-4
2.5
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
5
10
15
20
25
30
15
Incident Energy (MeV)
80-Hg-193

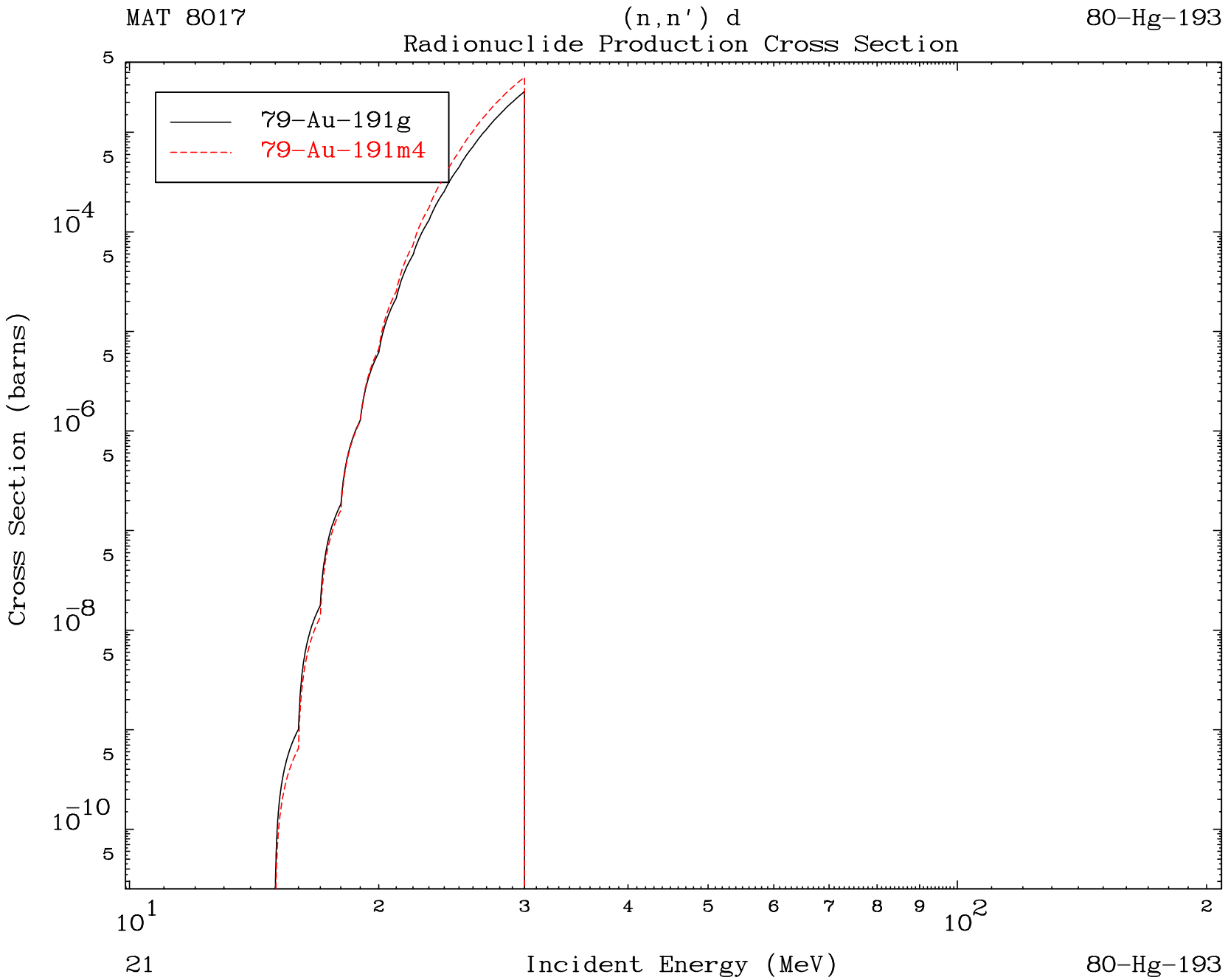

MAT 8017
Elastic
Legendre Coefficients
80-Hg-193
1.5
X10 -6
1.0
0.5
0.0
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
15
20
25
30
16
Incident Energy (MeV)
80-Hg-193

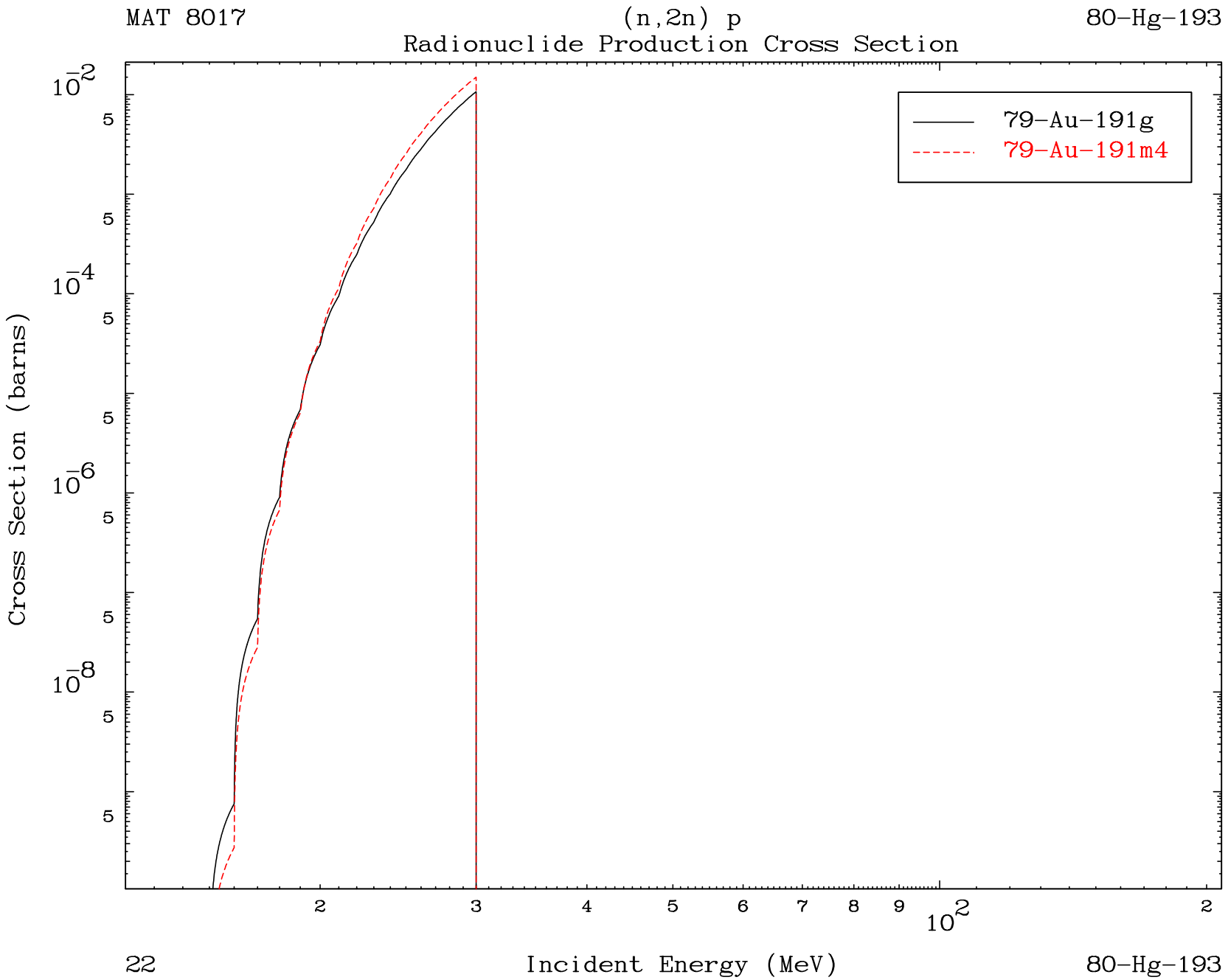

MAT 8017
Inelastic
80-Hg-193
Radionuclide Production Cross Section
80-Hg-193g
80-Hg-193m3
Cross Section (barns)
Incident Energy (MeV)
17
80-Hg-193

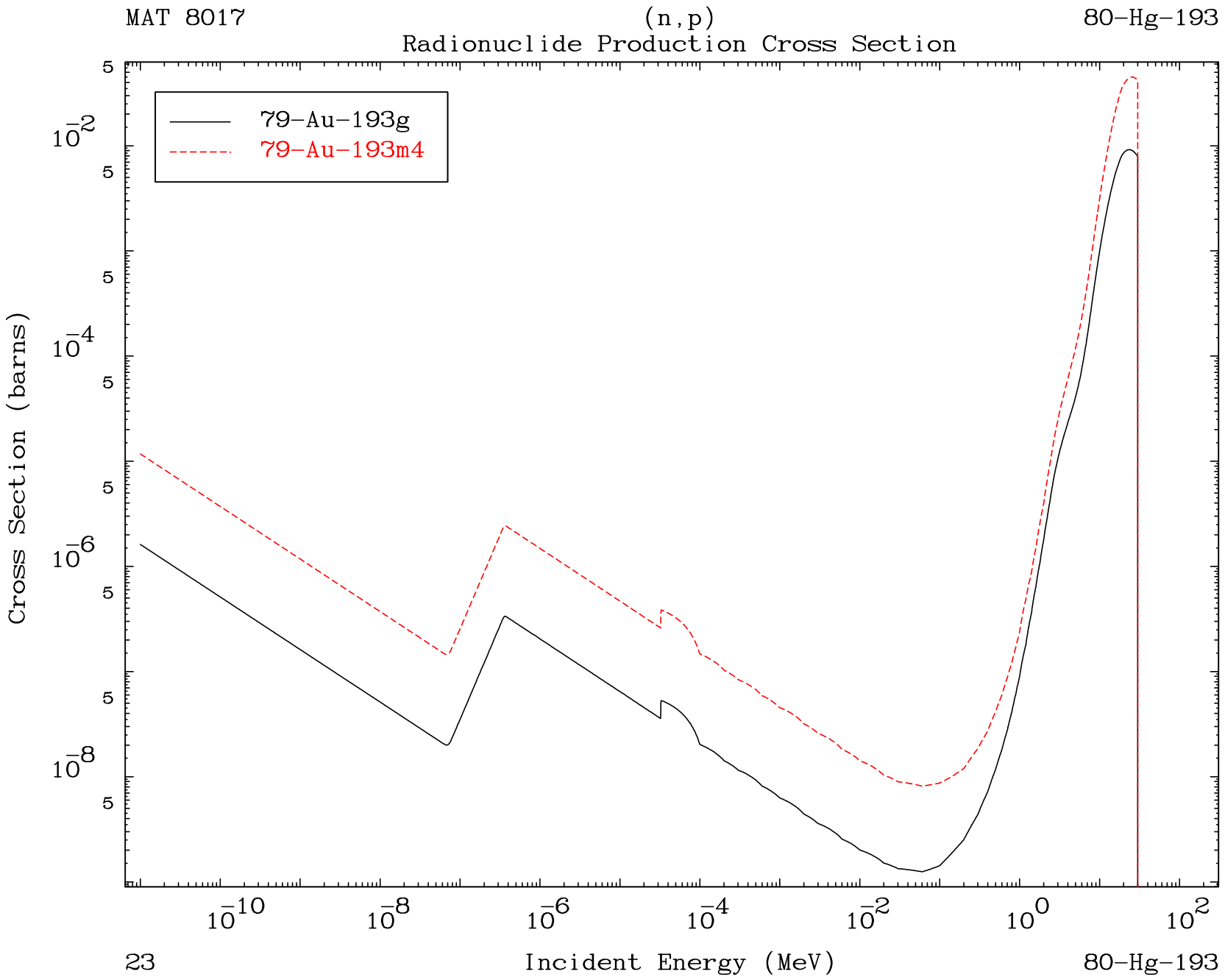

MAT 8017
(n,3n)
80-Hg-193
Radionuclide Production Cross Section
80-Hg-191g
80-Hg-191m3
Cross Section (barns)
Incident Energy (MeV)
18
80-Hg-193

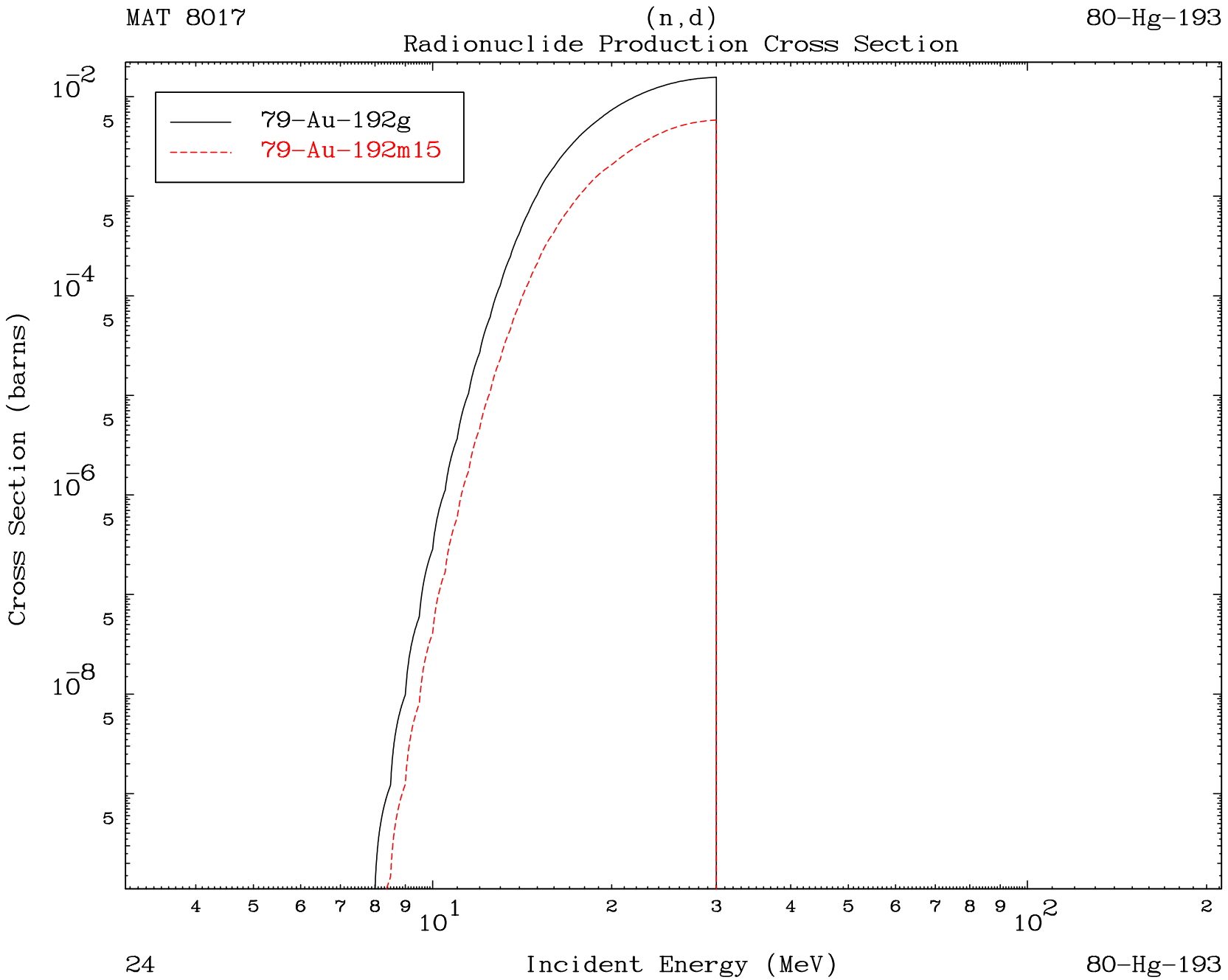

MAT 8017
Fission
80-Hg-193
Radionuclide Production Cross Section
Photon
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
19
Incident Energy (MeV)
80-Hg-193

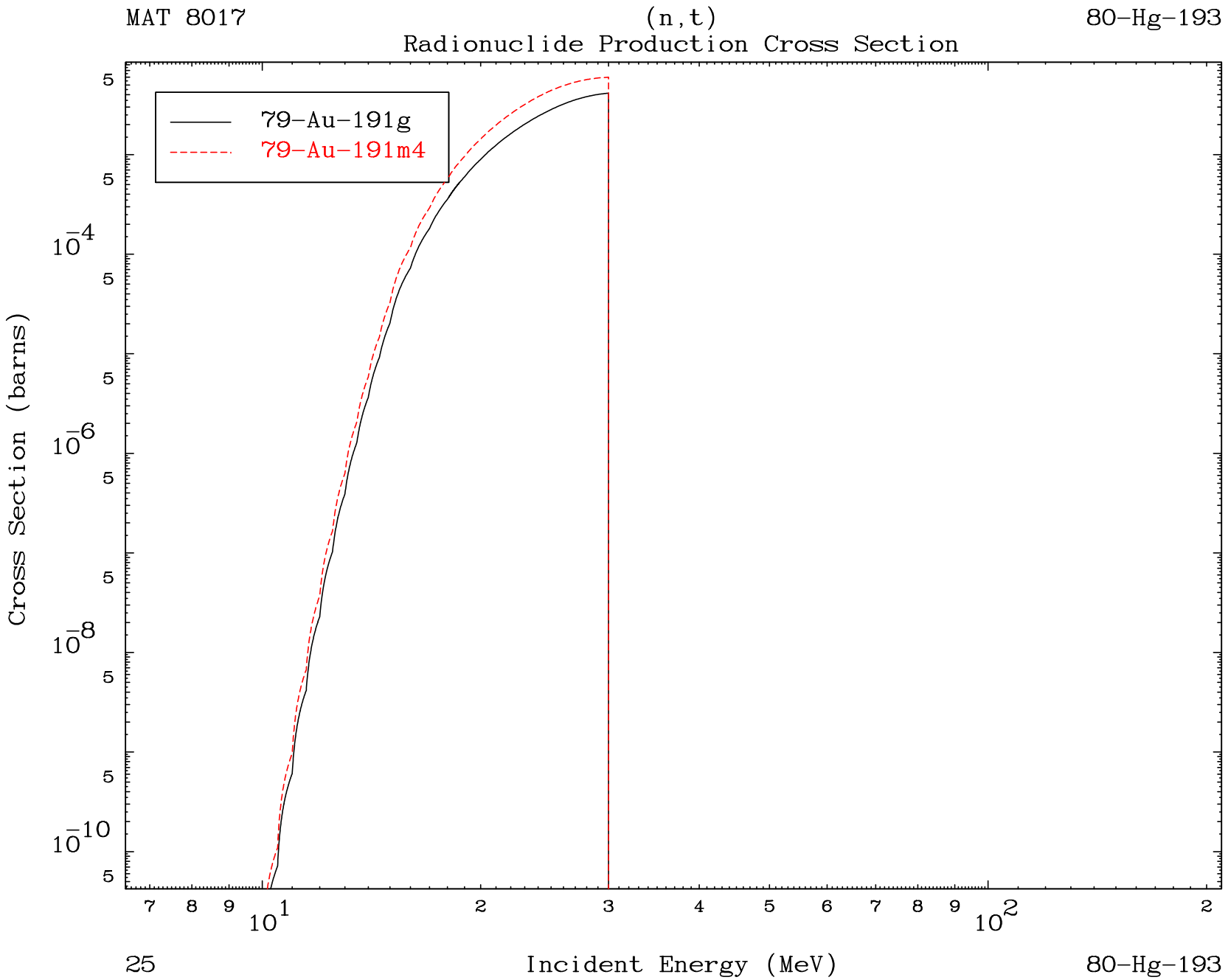

MAT 8017
(n,n') p
80-Hg-193
Radionuclide Production Cross Section
79-Au-192g
79-Au-192m15
Cross Section (barns)
Incident Energy (MeV)
20
80-Hg-193


MAT 8017
(n,n') d
80-Hg-193
Radionuclide Production Cross Section
79-Au-191g
79-Au-191m4
Cross Section (barns)
10-4
10-6
10-8
10-10
101
2
3
4
5
6
7
8
9
102
2
21
Incident Energy (MeV)
80-Hg-193


MAT 8017
(n,2n) p
80-Hg-193
Radionuclide Production Cross Section
79-Au-191g
79-Au-191m4
Cross Section (barns)
Incident Energy (MeV)
22
80-Hg-193


MAT 8017
(n,p)
80-Hg-193
Radionuclide Production Cross Section
79-Au-193g
79-Au-193m4
Cross Section (barns)
Incident Energy (MeV)
23
80-Hg-193


MAT 8017
(n,d)
80-Hg-193
Radionuclide Production Cross Section
79-Au-192g
79-Au-192m15
Cross Section (barns)
Incident Energy (MeV)
24
80-Hg-193


MAT 8017
(n,t)
80-Hg-193
Radionuclide Production Cross Section
79-Au-191g
79-Au-191m4
Cross Section (barns)
Incident Energy (MeV)
25
80-Hg-193