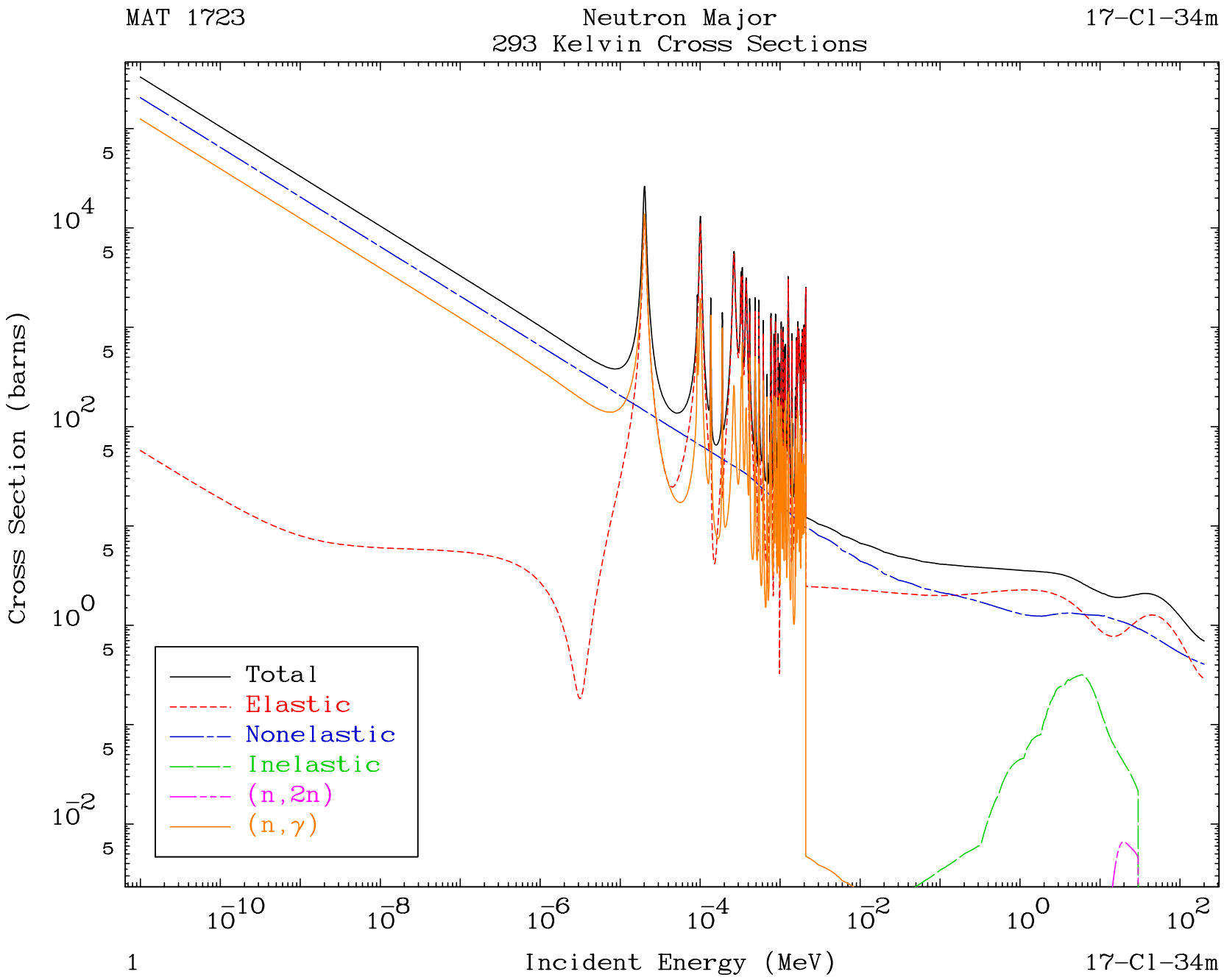
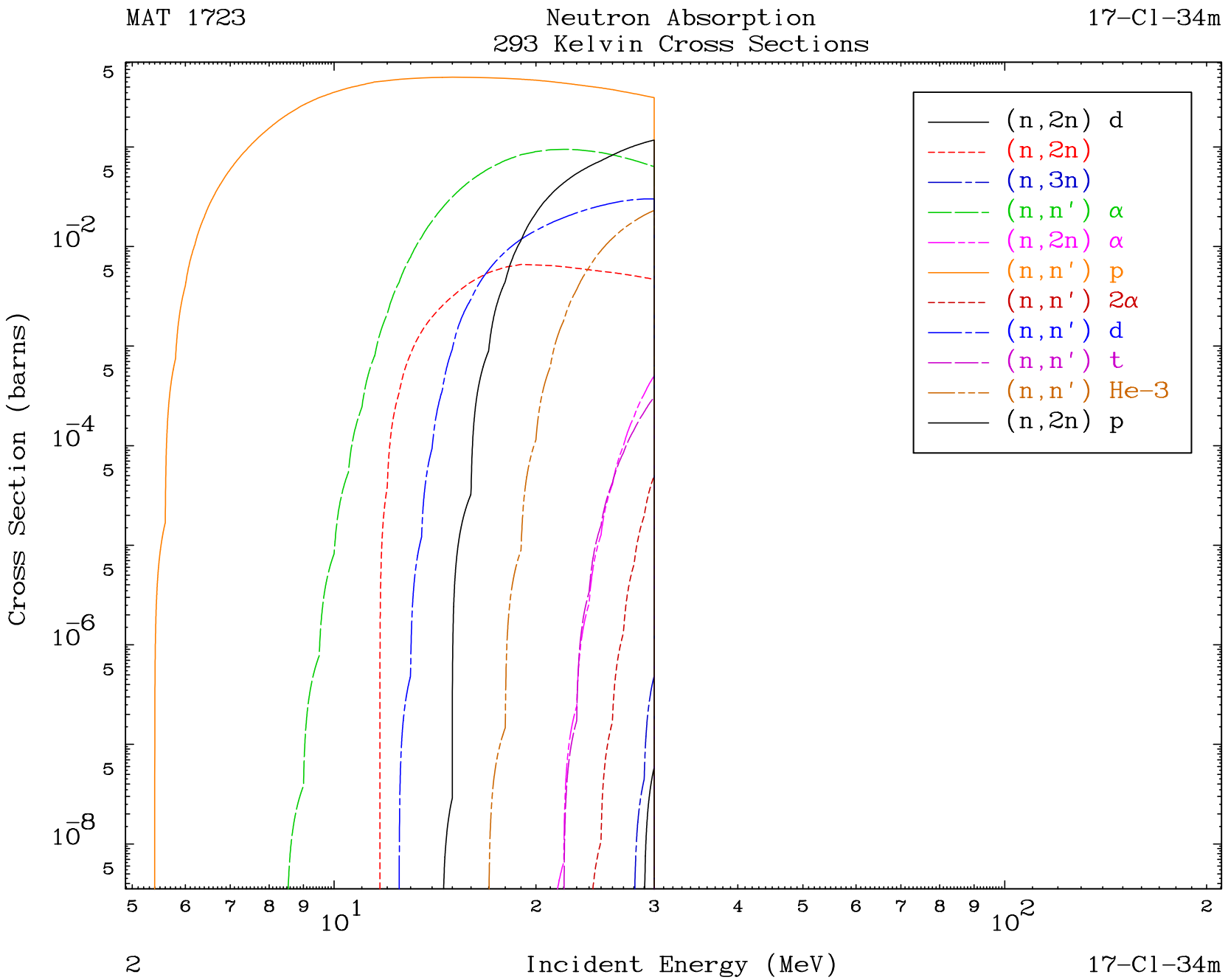
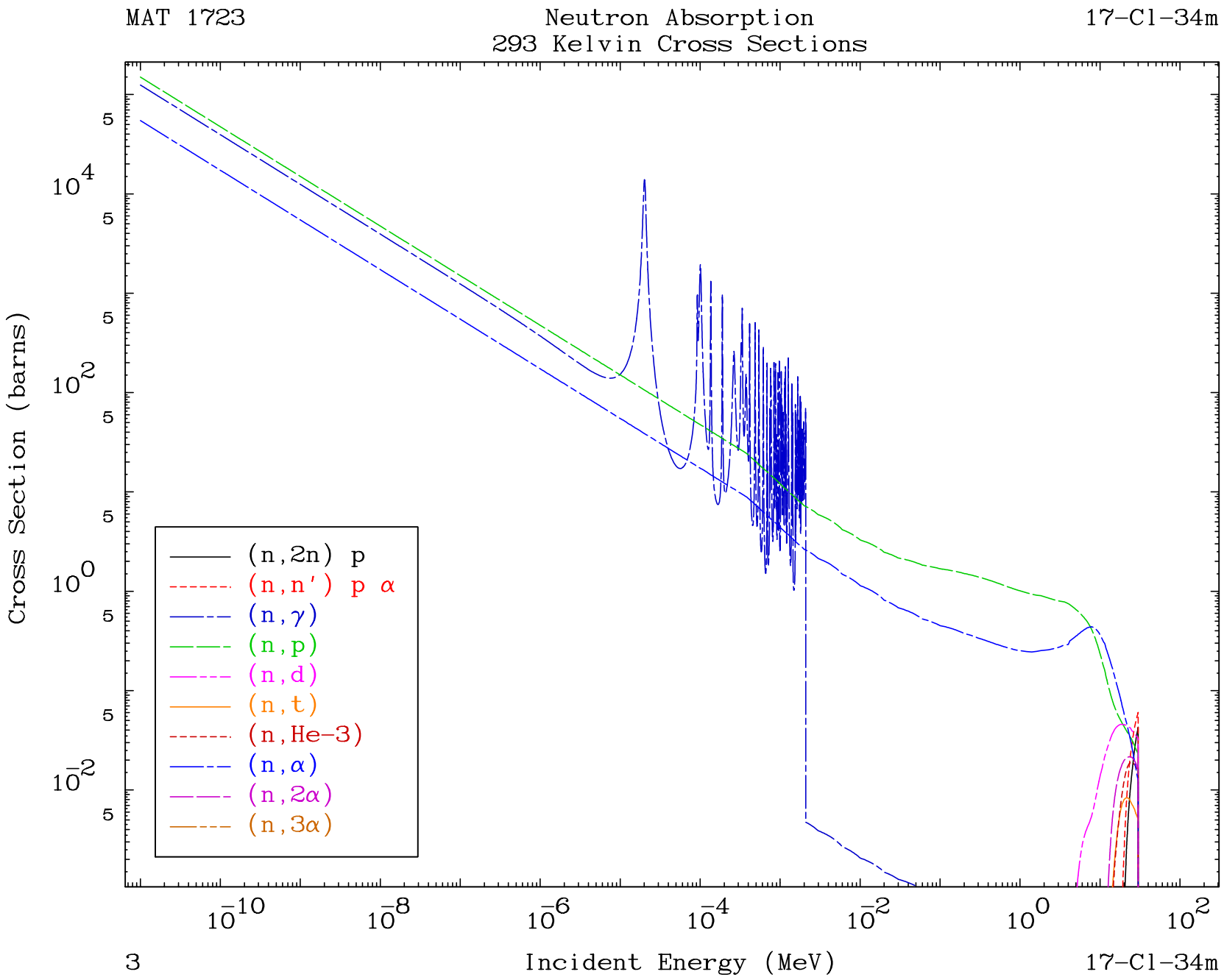
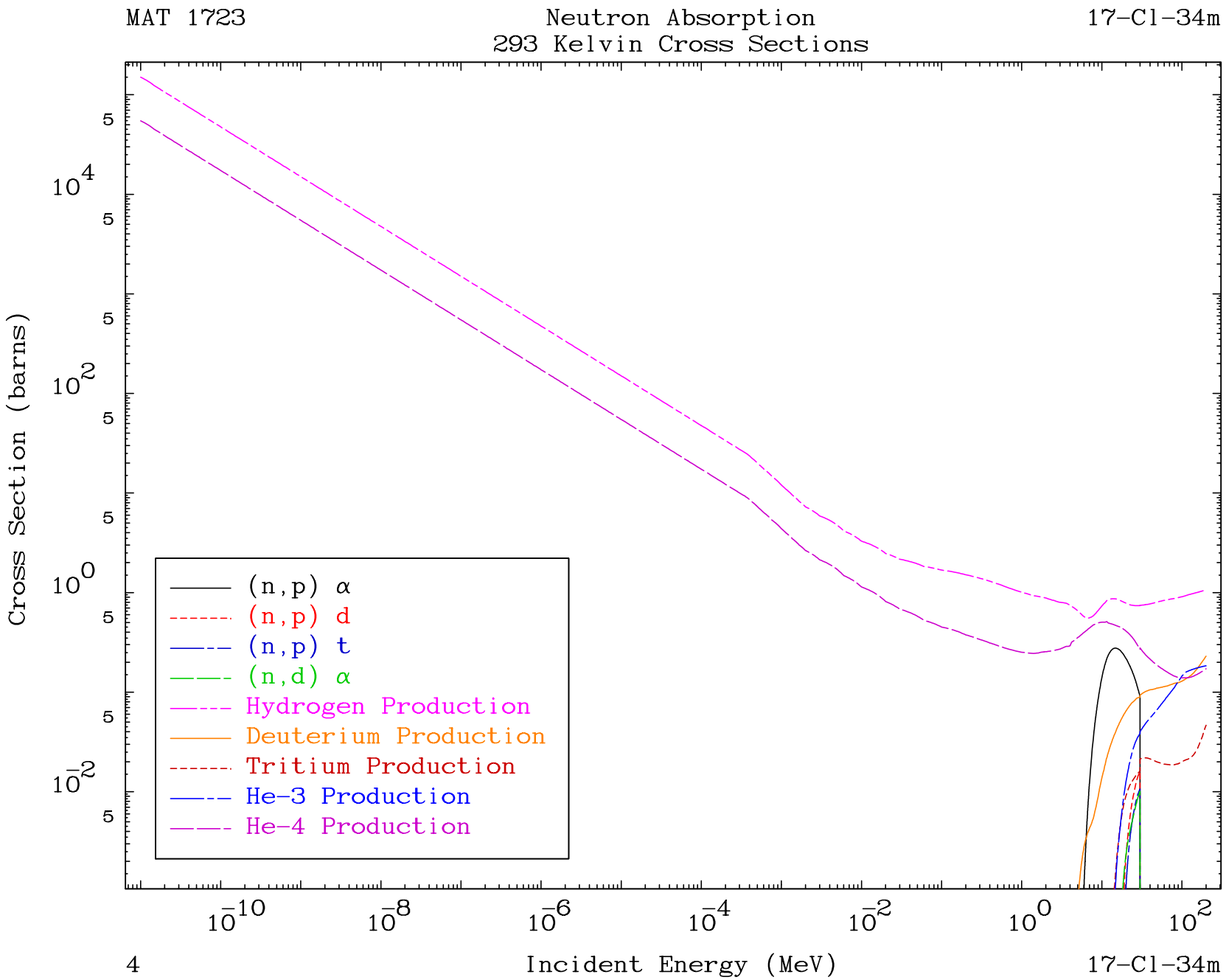
Program EVALPLOT
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

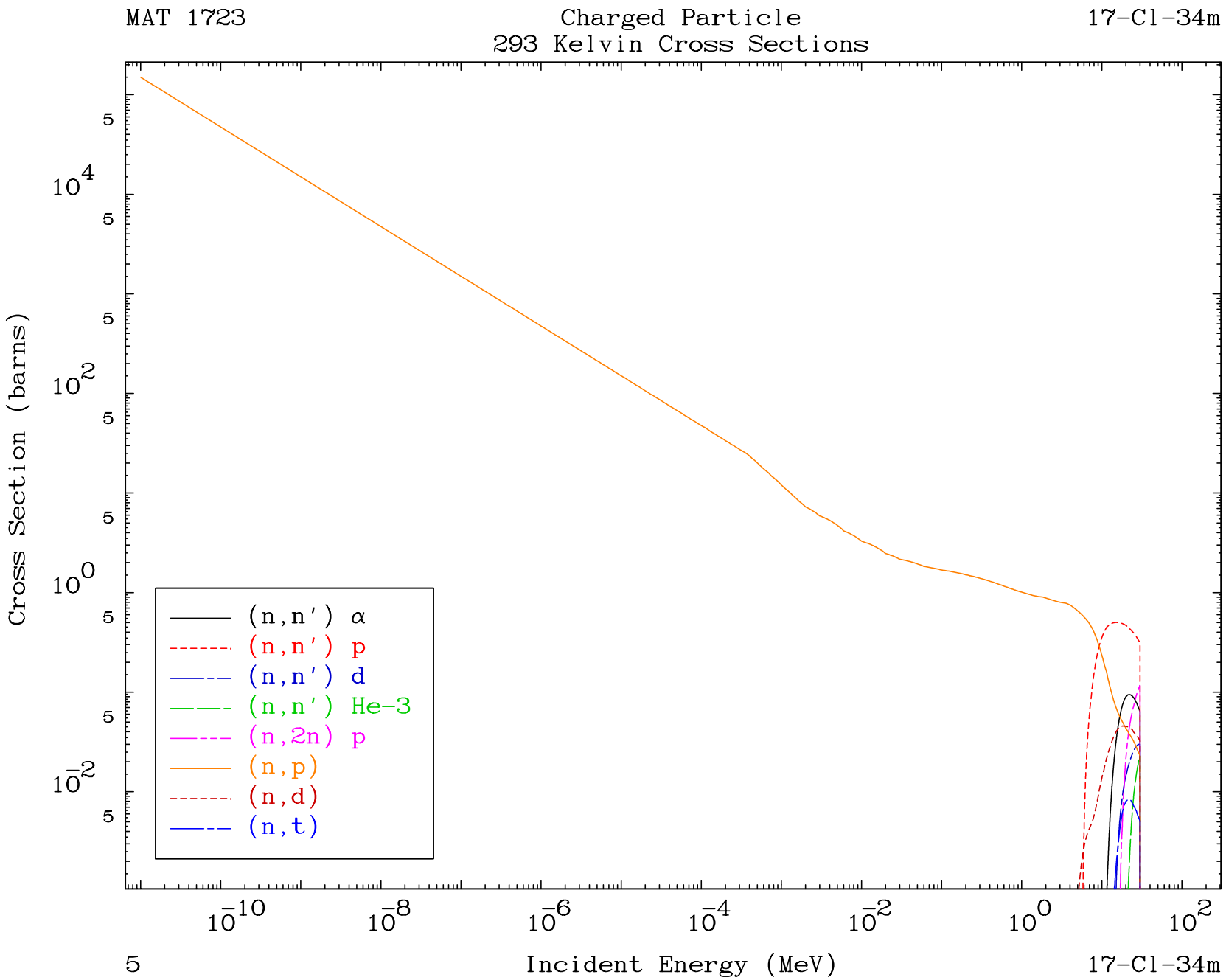
Press Mouse Button to Start

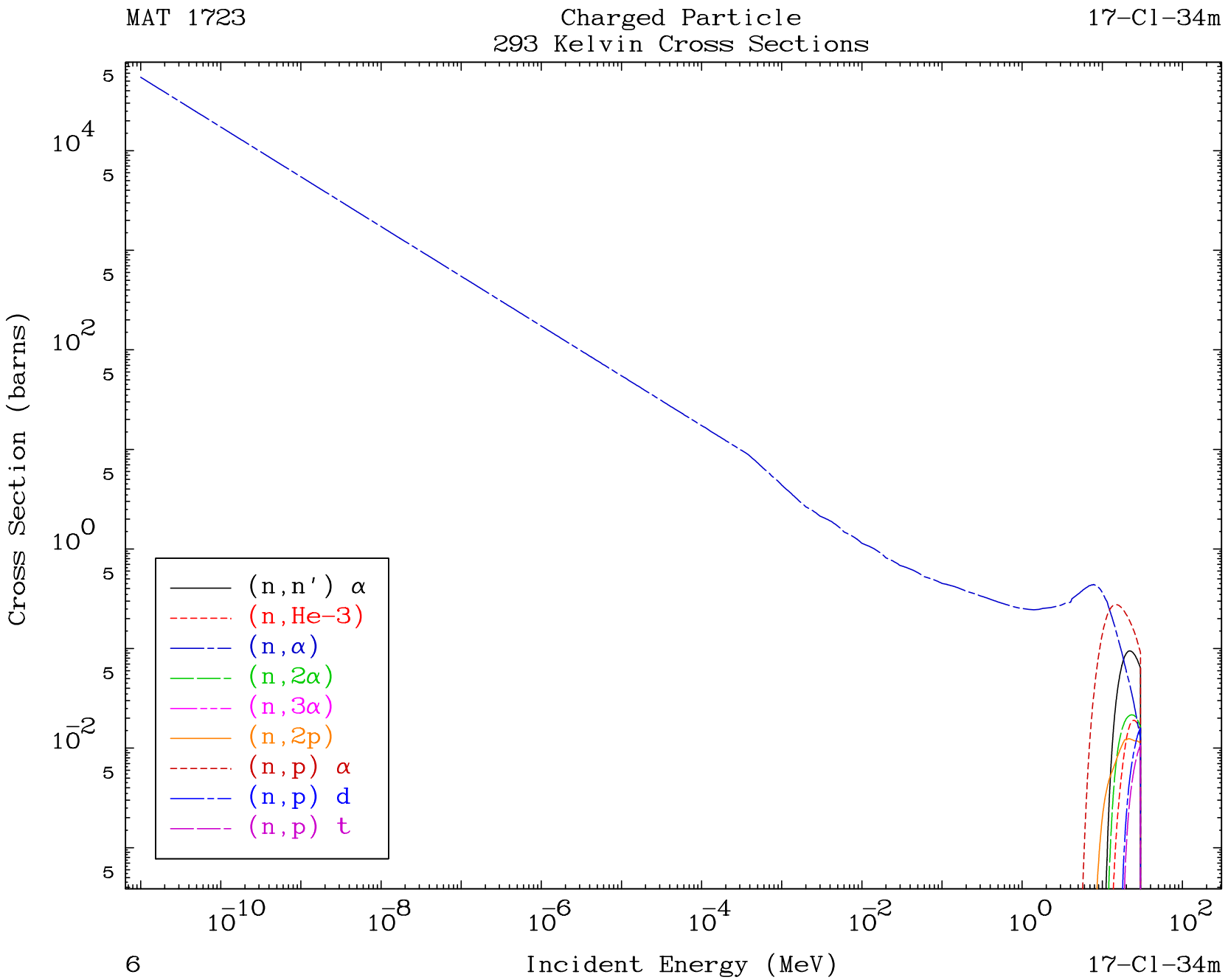

MAT 1723
Neutron Major
293 Kelvin Cross Sections
17-Cl-34m
Cross Section (barns)
Incident Energy (MeV)
Total
Elastic
Nonelastic
Inelastic
(n,2n)
(n,γ)
17-Cl-34m
1

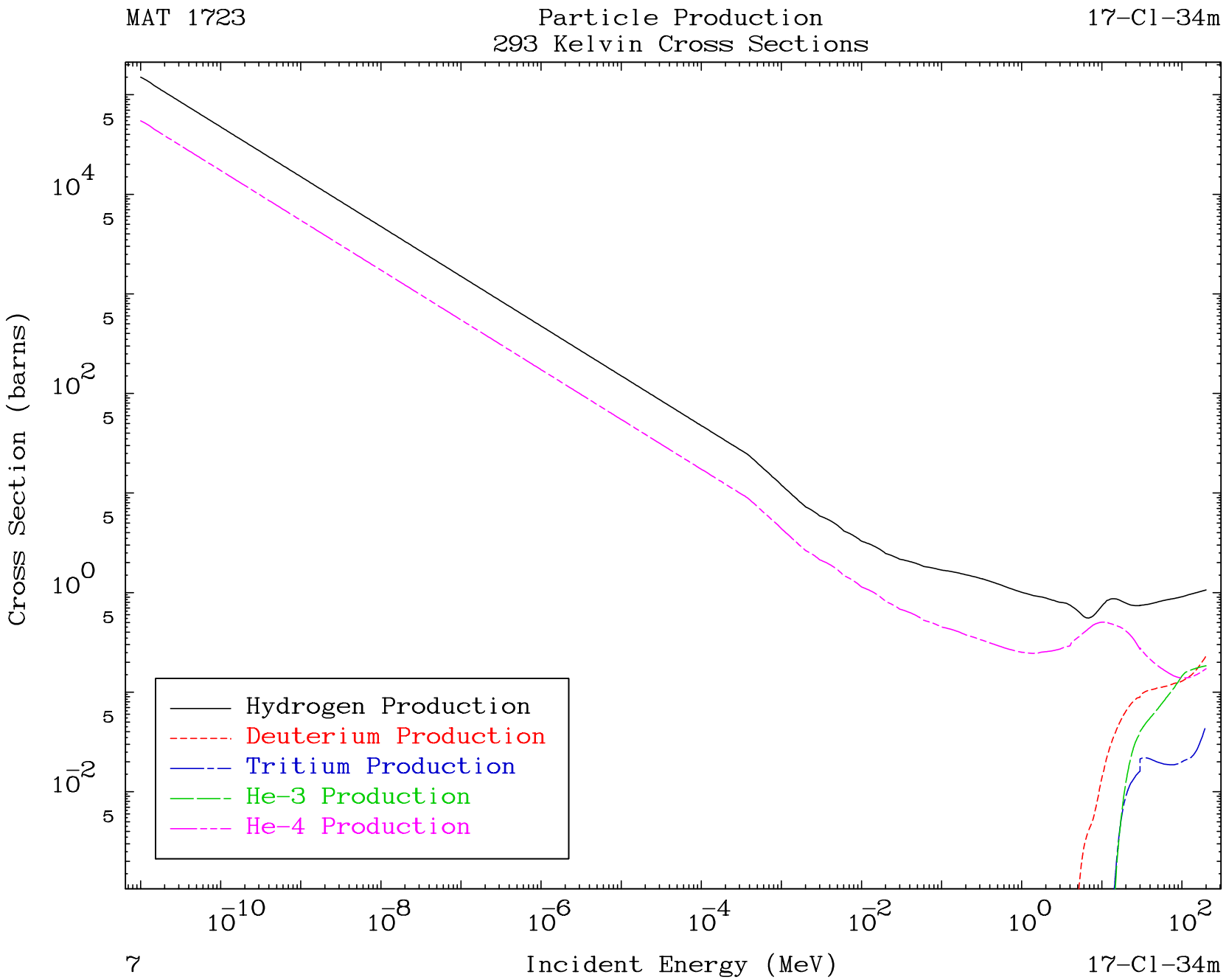

MAT 1723
Neutron Absorption
293 Kelvin Cross Sections
17-Cl-34m
Cross Section (barns)
Incident Energy (MeV)
17-Cl-34m
(n,2n) d
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p

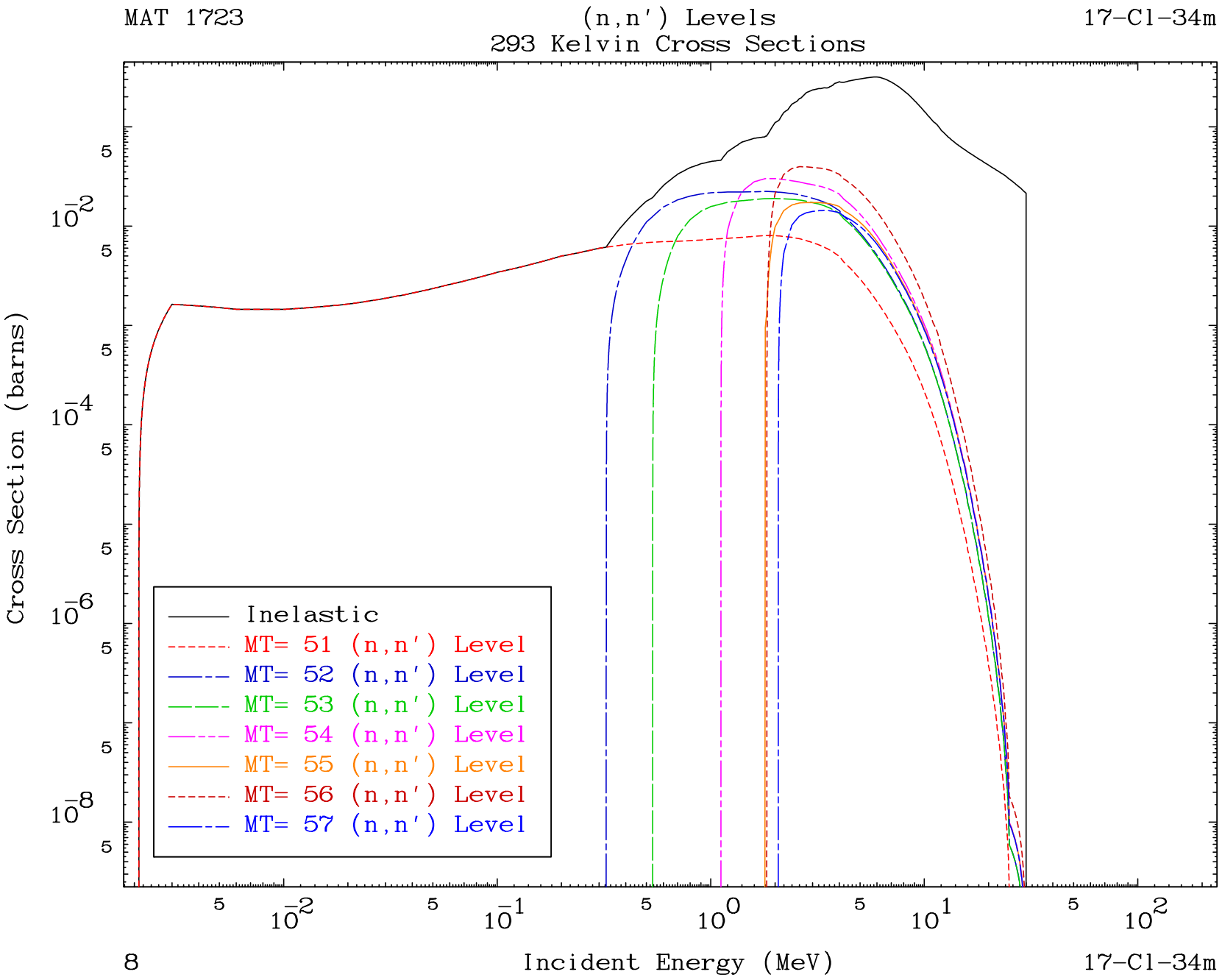

MAT 1723
Neutron Absorption
293 Kelvin Cross Sections
17-Cl-34m
Cross Section (barns)
10^4
10^2
10^0
10^-2
(n,2n) p
(n,n') p α
(n,γ)
(n,p)
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,3α)
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
Incident Energy (MeV)
3
17-Cl-34m

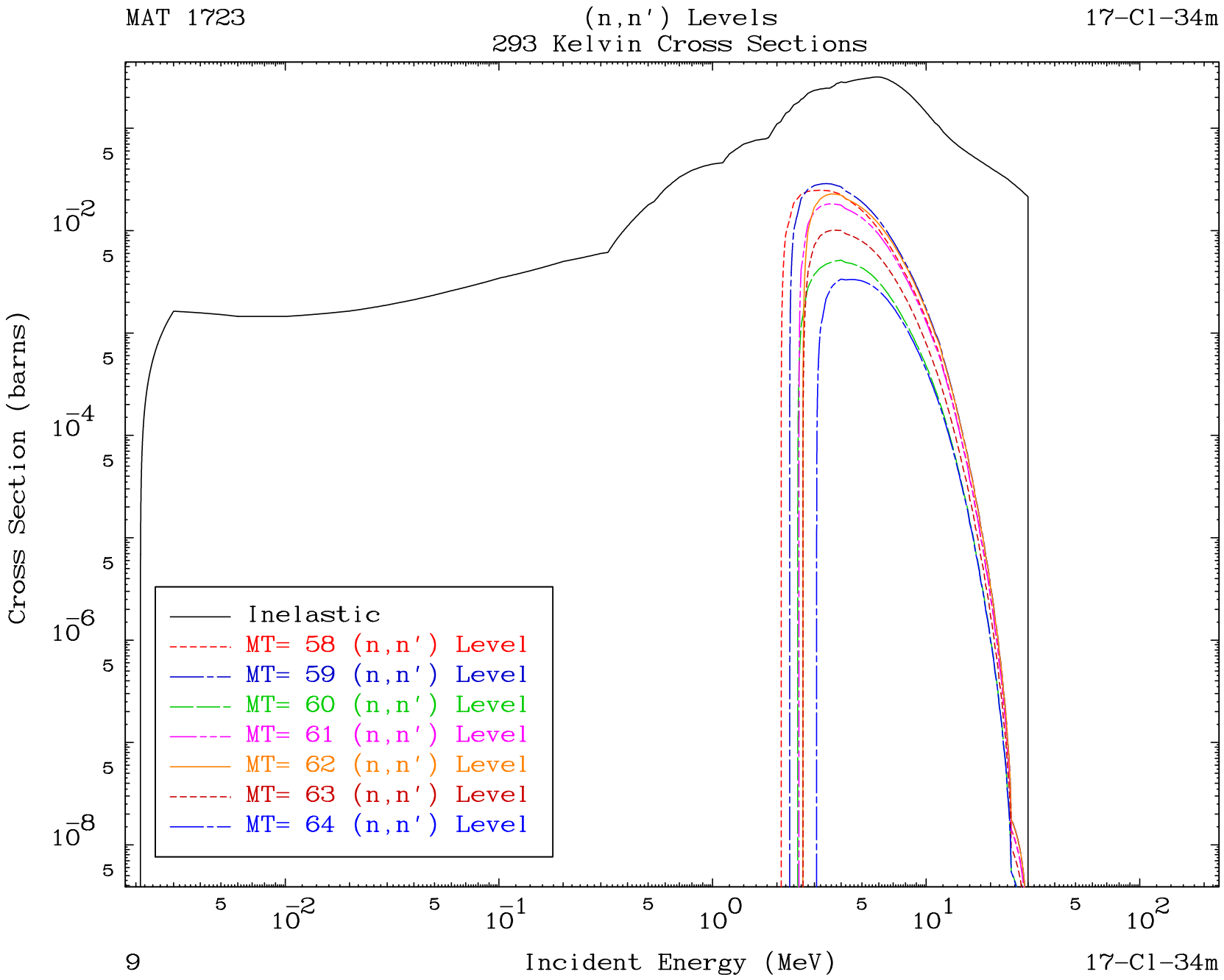

MAT 1723
Neutron Absorption
293 Kelvin Cross Sections
17-Cl-34m
Cross Section (barns)
10^4
10^2
10^0
10^-2
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
Incident Energy (MeV)
4
17-Cl-34m

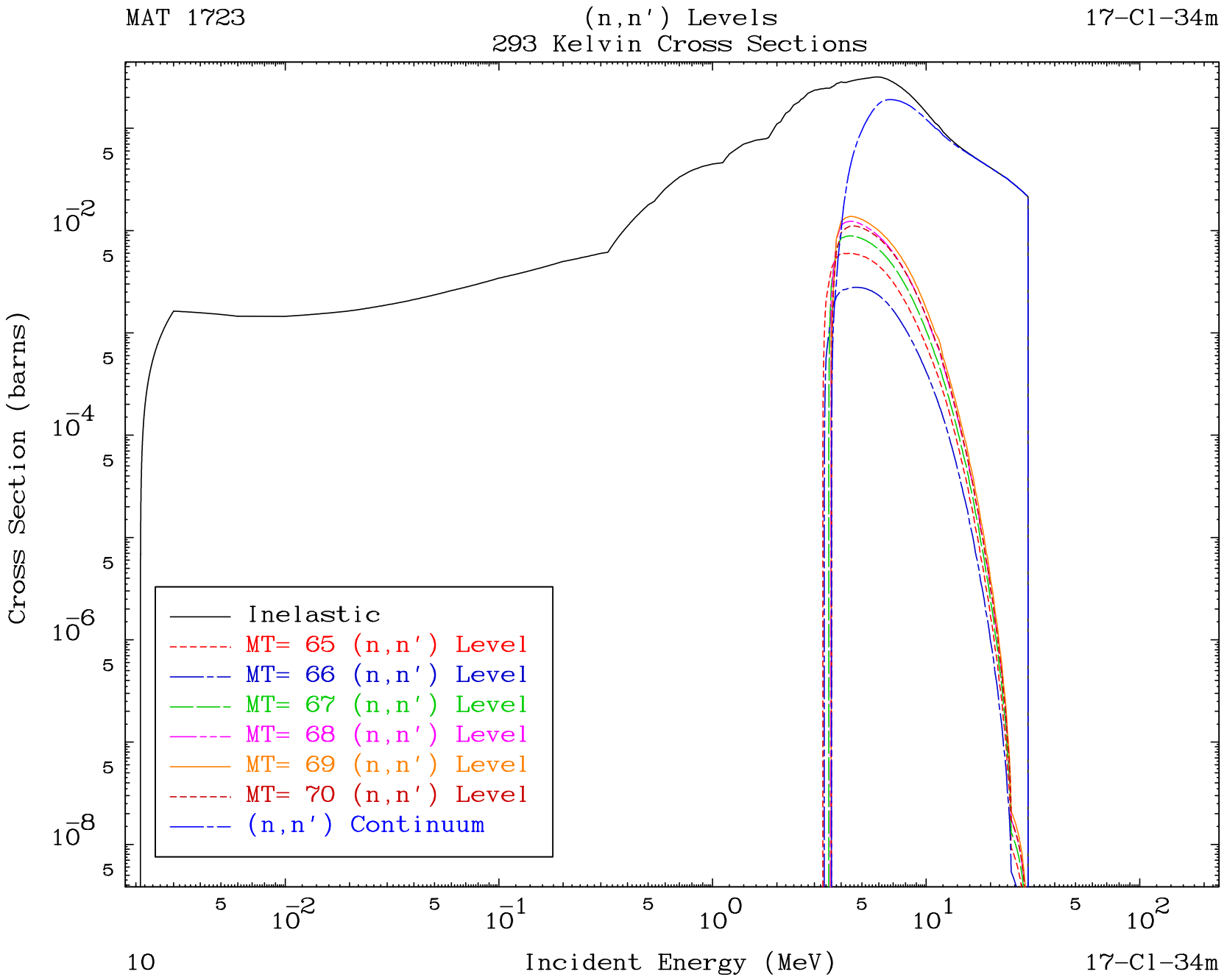

MAT 1723
Charged Particle
293 Kelvin Cross Sections
17-Cl-34m
Cross Section (barns)
Incident Energy (MeV)
17-Cl-34m
5
(n,n') α
(n,n') p
(n,n') d
(n,n') He-3
(n,2n) p
(n,p)
(n,d)
(n,t)

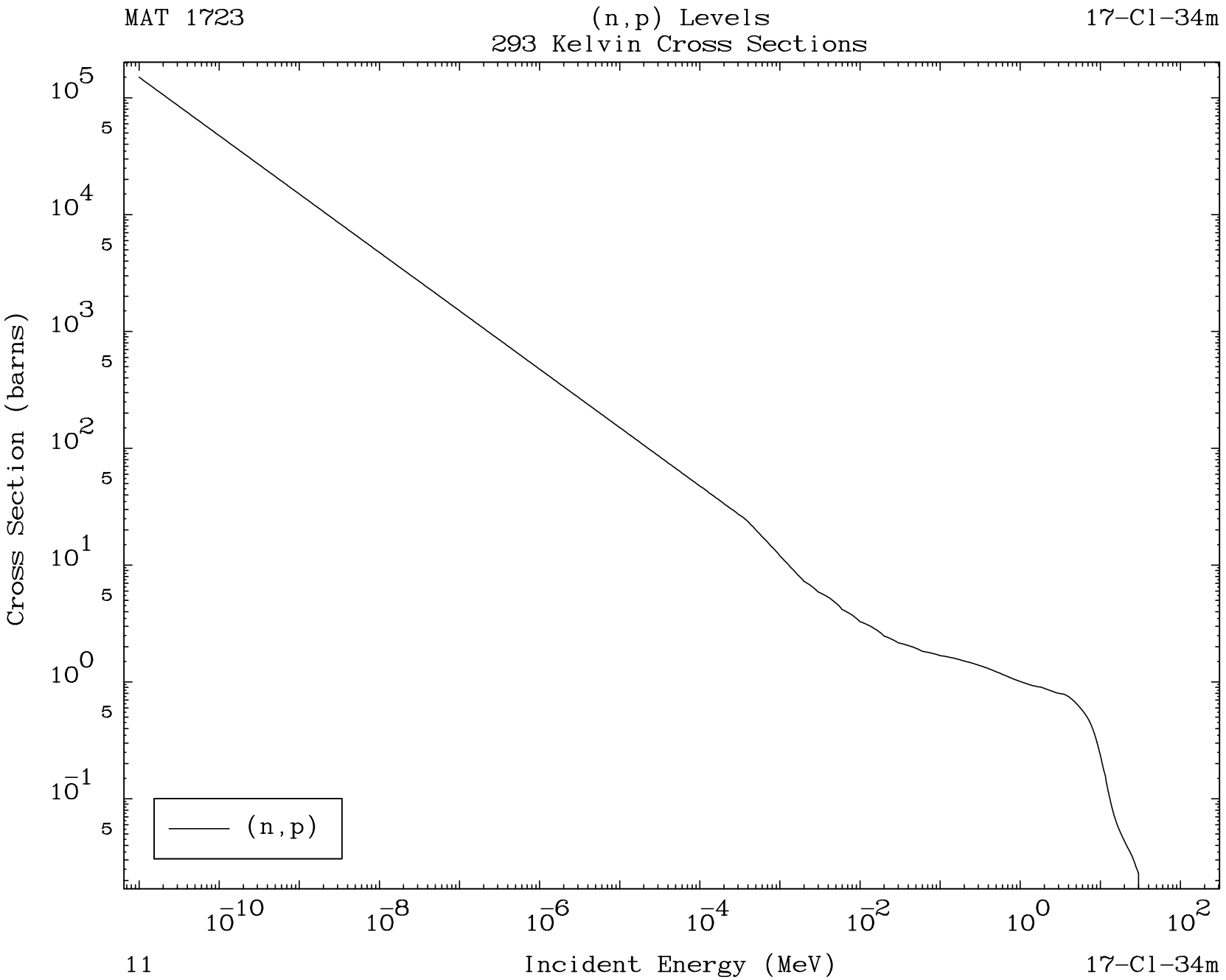

MAT 1723
Charged Particle
293 Kelvin Cross Sections
17-Cl-34m
Cross Section (barns)
Incident Energy (MeV)
(n,n') α
(n,He-3)
(n,α)
(n,2α)
(n,3α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
6
17-Cl-34m

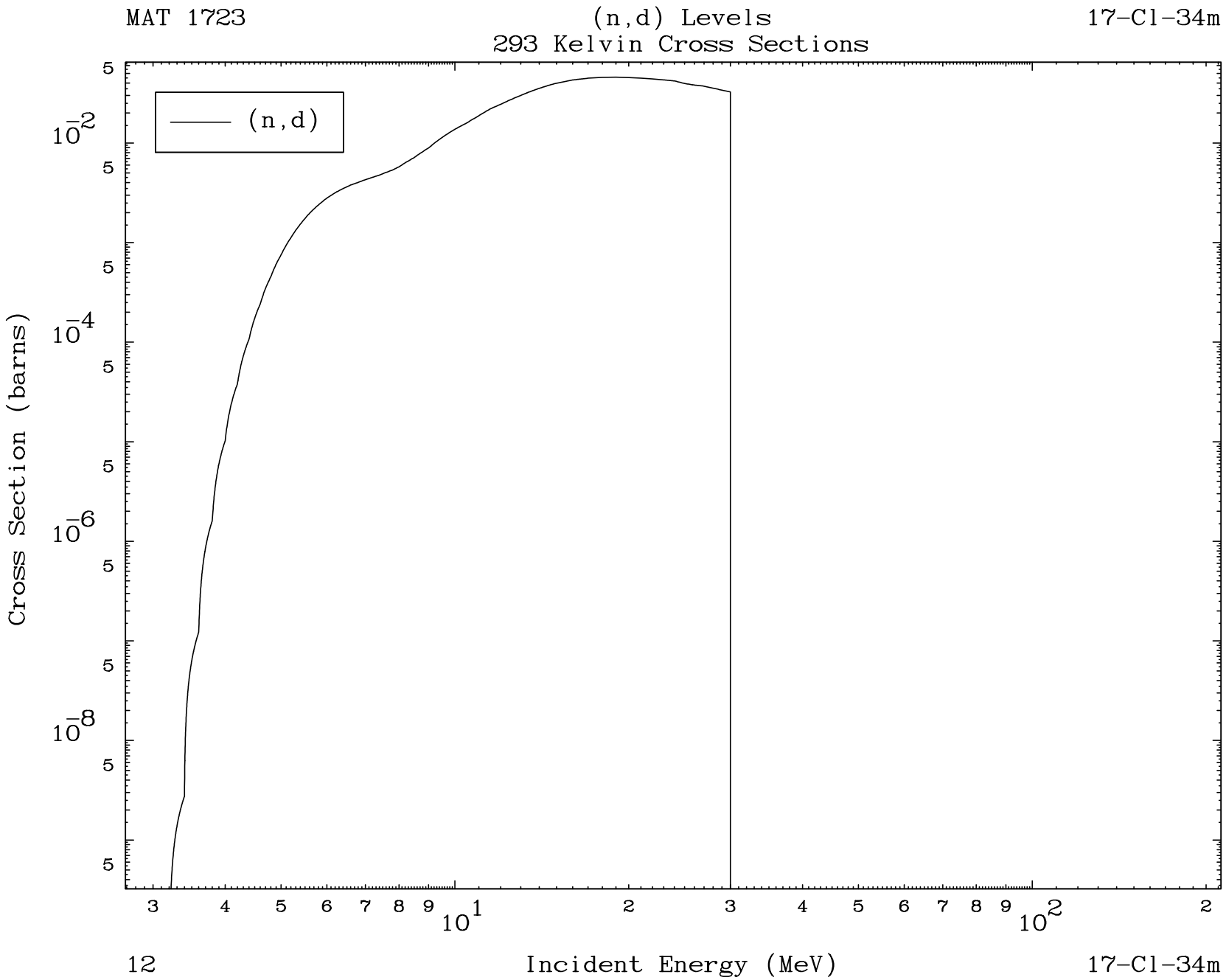

MAT 1723
Particle Production
293 Kelvin Cross Sections
17-Cl-34m
Cross Section (barns)
Incident Energy (MeV)
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production
7
17-Cl-34m

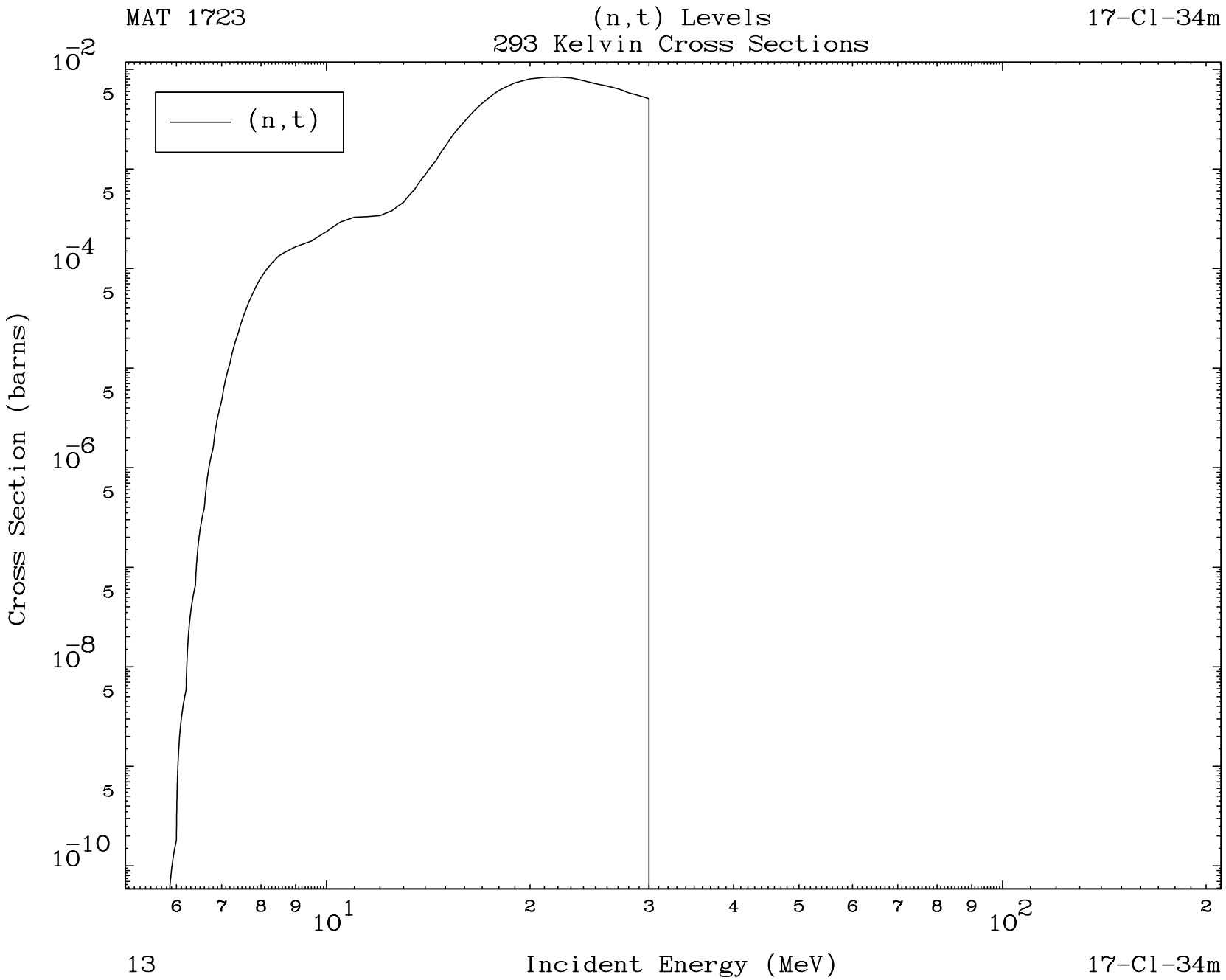

MAT 1723
(n,n') Levels
293 Kelvin Cross Sections
17-Cl-34m
Cross Section (barns)
Incident Energy (MeV)
Inelastic
MT= 51 (n,n') Level
MT= 52 (n,n') Level
MT= 53 (n,n') Level
MT= 54 (n,n') Level
MT= 55 (n,n') Level
MT= 56 (n,n') Level
MT= 57 (n,n') Level
8
17-Cl-34m

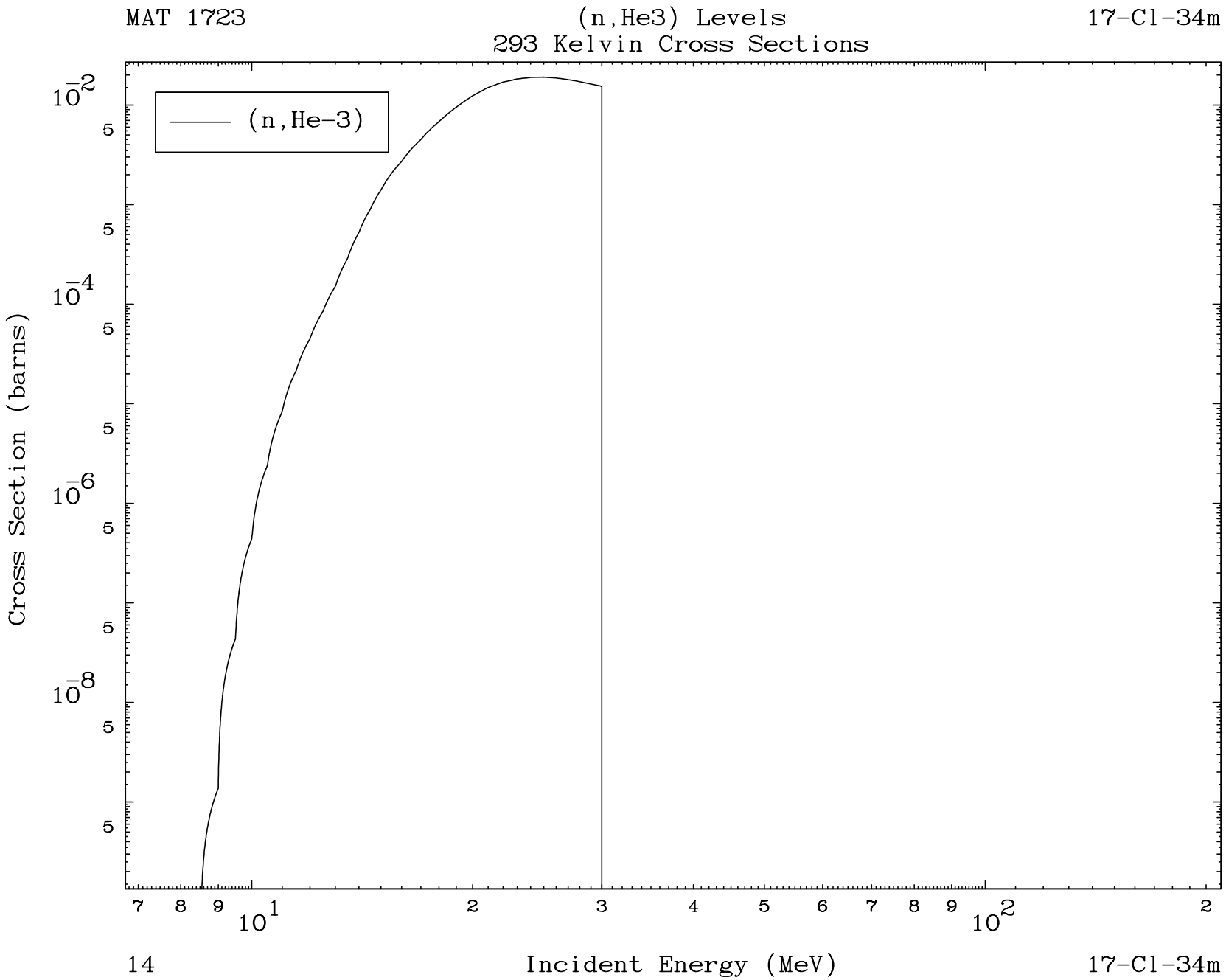

MAT 1723
(n,n') Levels
293 Kelvin Cross Sections
17-Cl-34m
Cross Section (barns)
Incident Energy (MeV)
Inelastic
MT= 58 (n,n') Level
MT= 59 (n,n') Level
MT= 60 (n,n') Level
MT= 61 (n,n') Level
MT= 62 (n,n') Level
MT= 63 (n,n') Level
MT= 64 (n,n') Level
9
17-Cl-34m

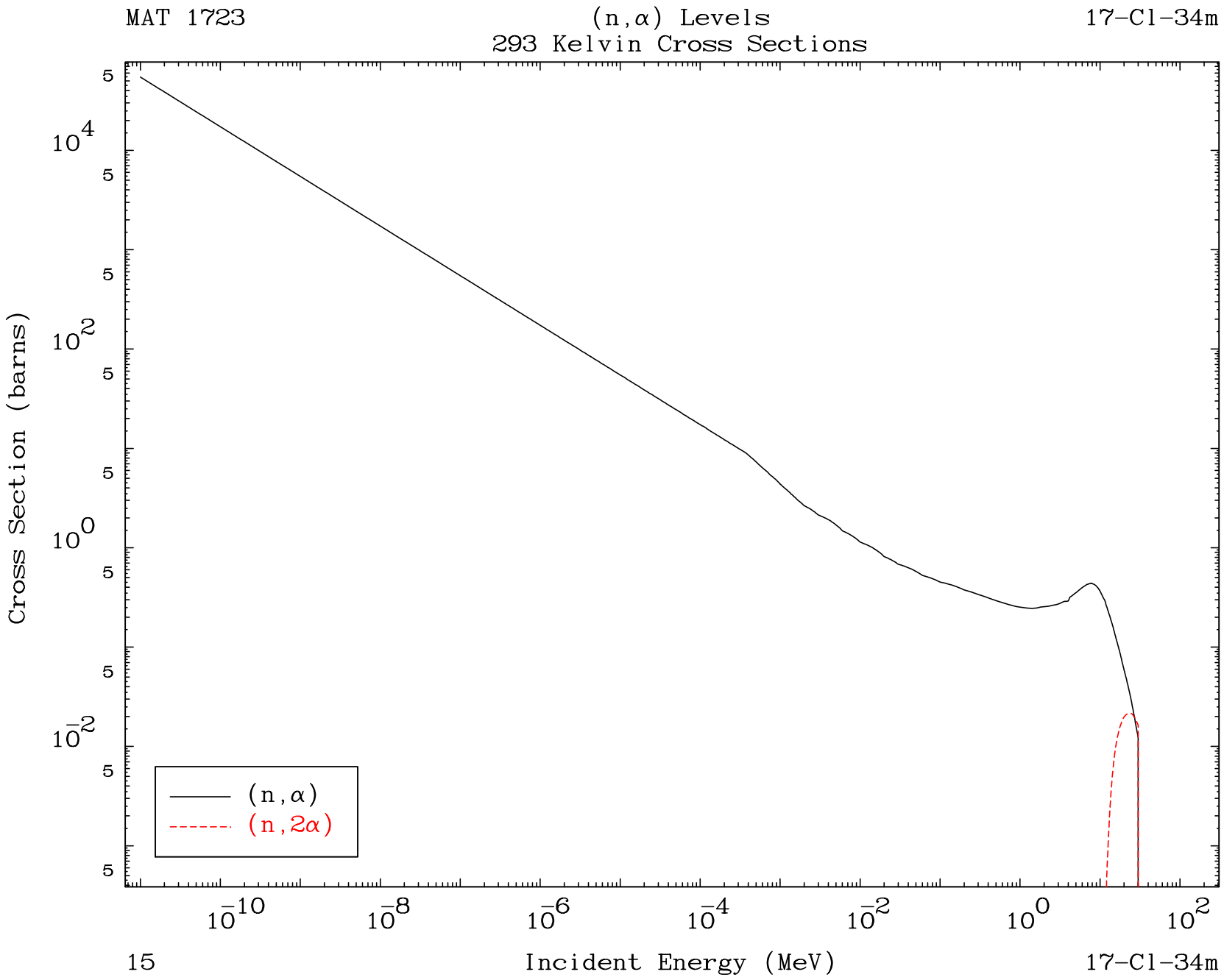

MAT 1723
(n,n') Levels
293 Kelvin Cross Sections
17-Cl-34m
Cross Section (barns)
Incident Energy (MeV)
17-Cl-34m
Inelastic
MT= 65 (n,n') Level
MT= 66 (n,n') Level
MT= 67 (n,n') Level
MT= 68 (n,n') Level
MT= 69 (n,n') Level
MT= 70 (n,n') Level
(n,n') Continuum

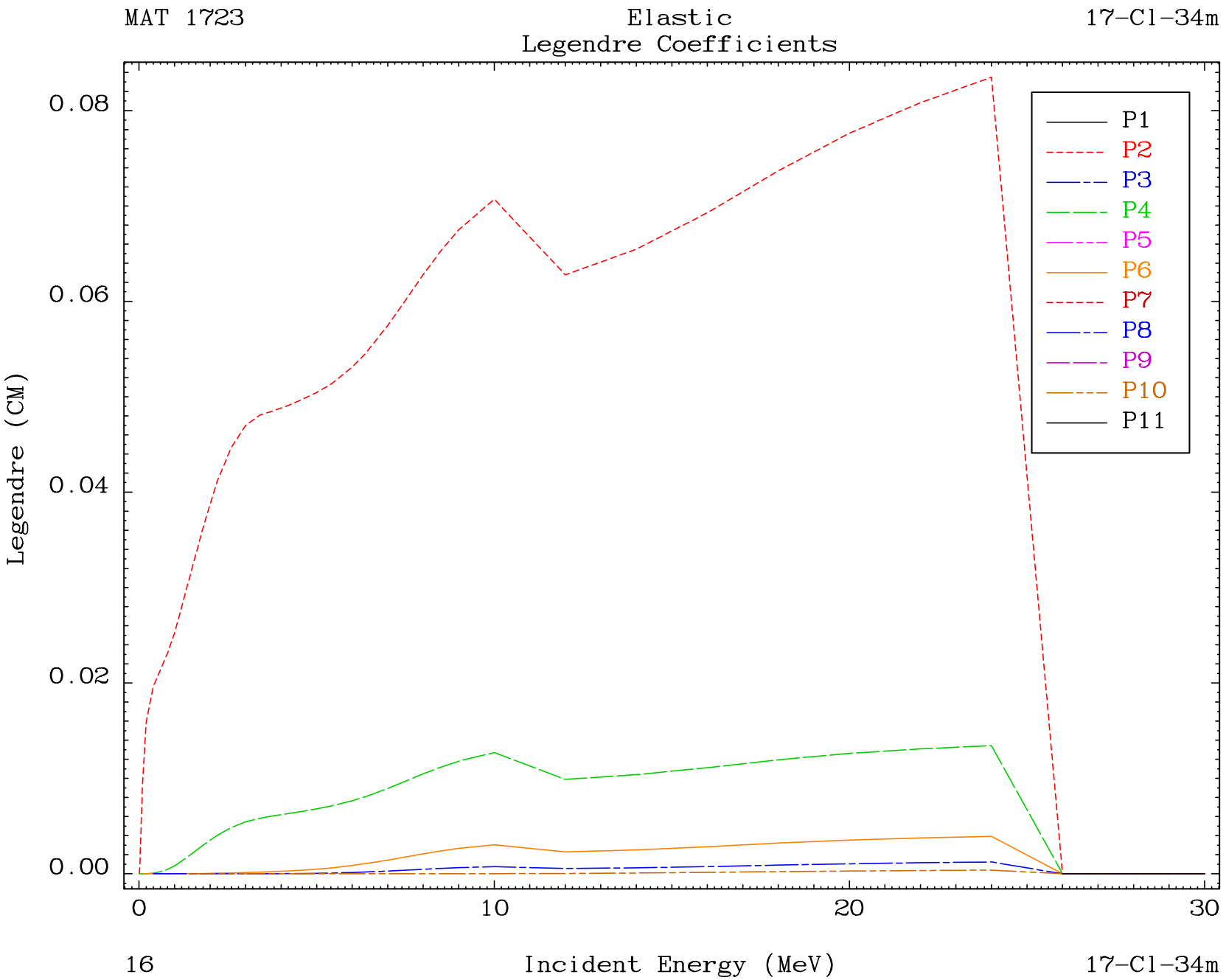

MAT 1723
(n,p) Levels
17-Cl-34m
293 Kelvin Cross Sections
Cross Section (barns)
10^5
10^4
10^3
10^2
10^1
10^0
10^-1
5
(n,p)
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
Incident Energy (MeV)
11
17-Cl-34m

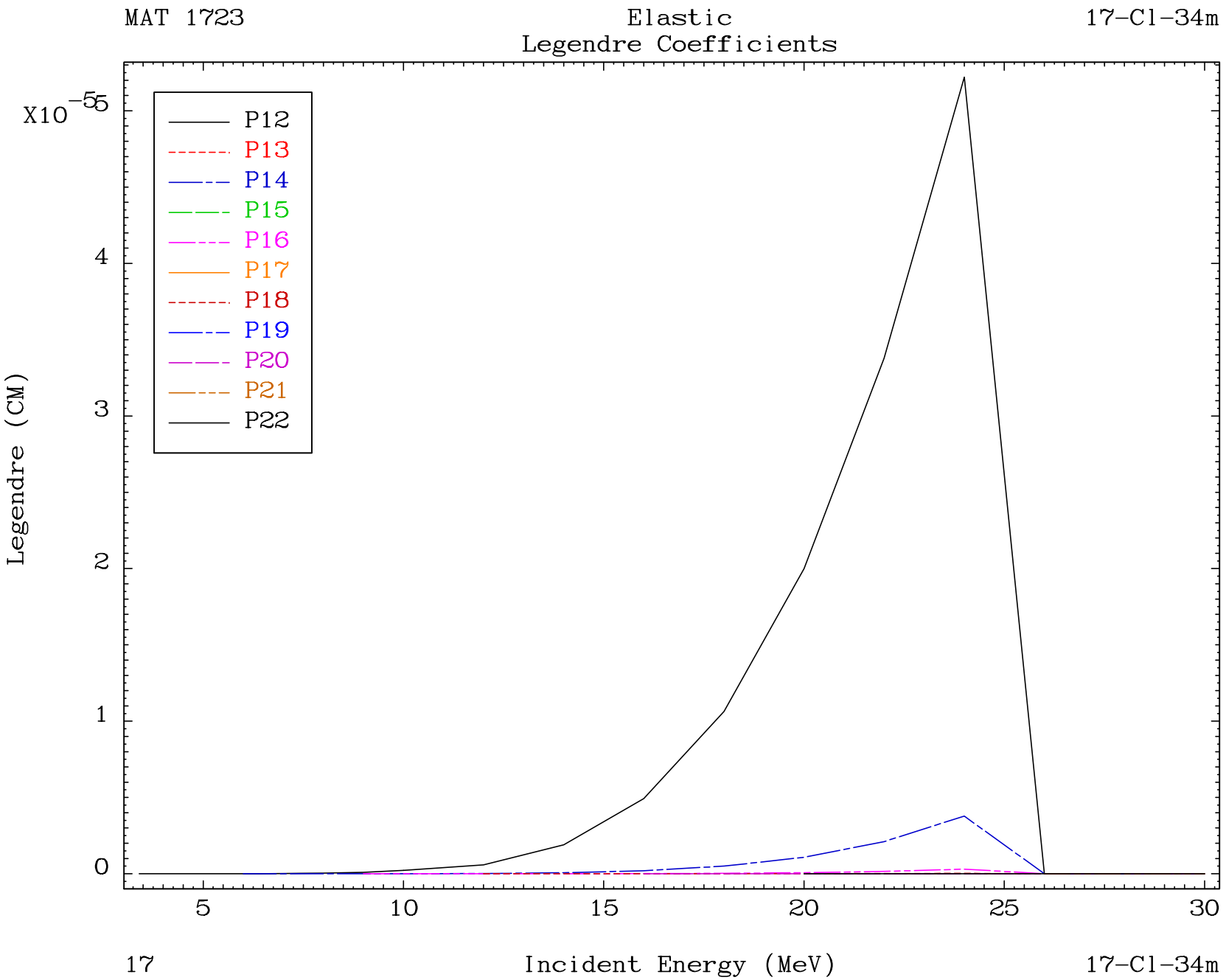

MAT 1723
(n,d) Levels
17-Cl-34m
293 Kelvin Cross Sections
(n,d)
Cross Section (barns)
10-2
10-4
10-6
10-8
5
3 4 5 6 7 8 9 10 1 2 3 4 5 6 7 8 9 10 2 2
12
Incident Energy (MeV)
17-Cl-34m

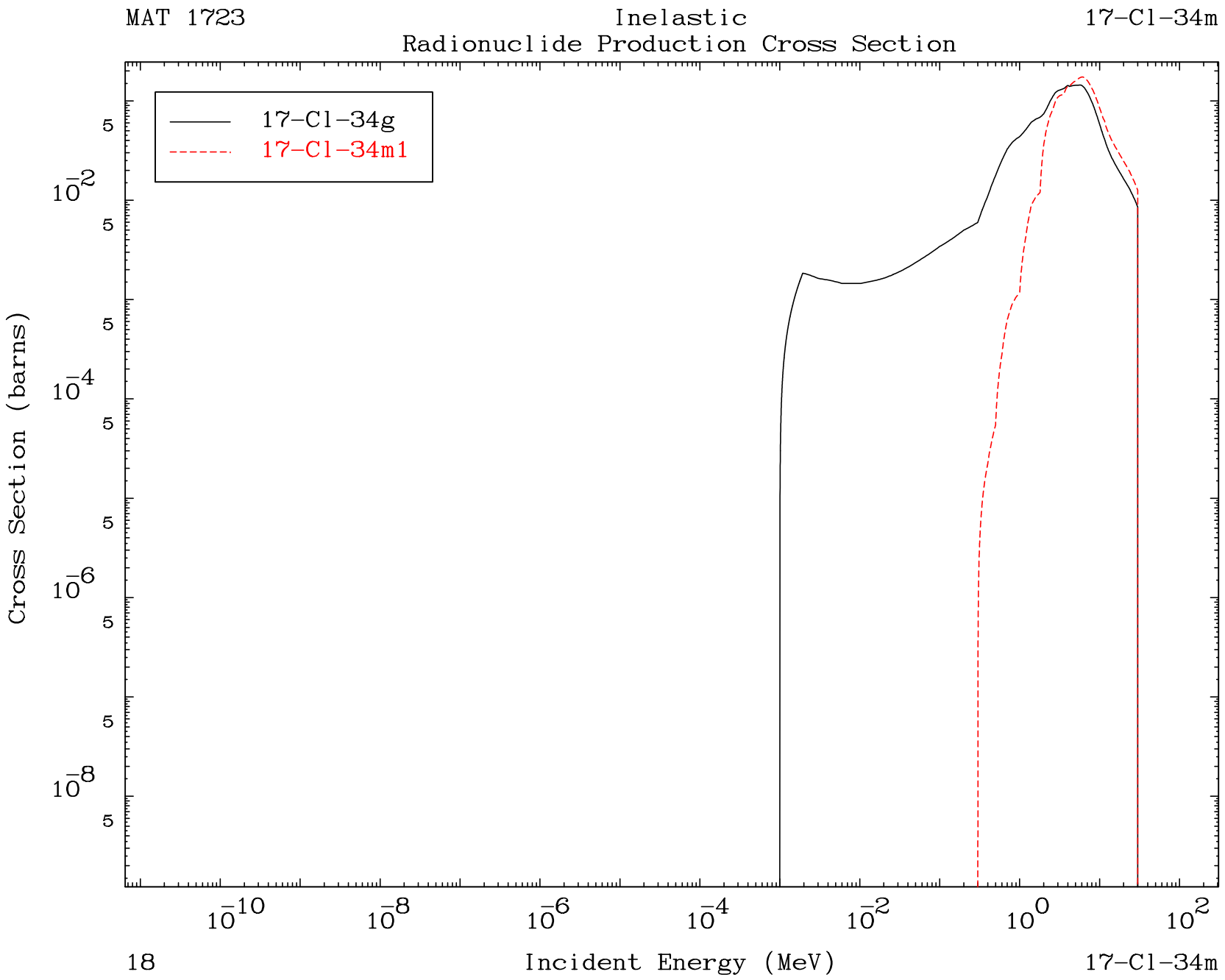

MAT 1723
(n,t) Levels
17-Cl-34m
293 Kelvin Cross Sections
(n,t)
Cross Section (barns)
Incident Energy (MeV)
13
17-Cl-34m

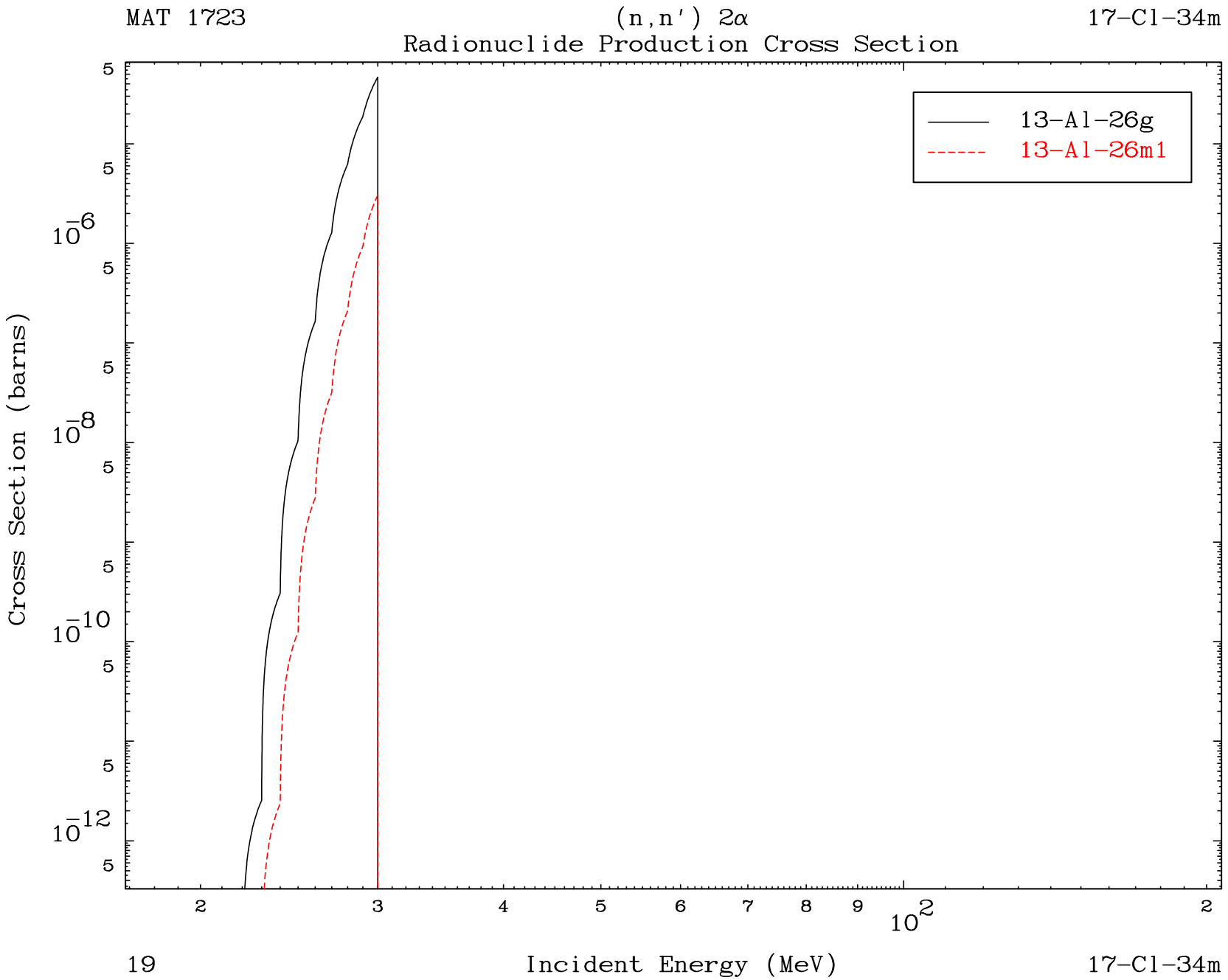

MAT 1723
(n,He3) Levels
17-Cl-34m
293 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
10-2
5
10-4
5
10-6
5
10-8
5
7 8 9 10 1 2 3 4 5 6 7 8 9 10 2 2
Incident Energy (MeV)
14
17-Cl-34m


MAT 1723
(n,α) Levels
17-Cl-34m
293 Kelvin Cross Sections
Cross Section (barns)
10^4
10^2
10^0
10^-2
5
(n,α)
(n,2α)
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
Incident Energy (MeV)
15
17-Cl-34m


MAT 1723
Elastic
Legendre Coefficients
17-Cl-34m
0.08
0.06
0.04
0.02
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11
0
10
20
30
16
Incident Energy (MeV)
17-Cl-34m


MAT 1723
Elastic
Legendre Coefficients
17-Cl-34m
X10 -5
5
4
3
2
1
0
Legendre (CM)
P12
P13
P14
P15
P16
P17
P18
P19
P20
P21
P22
5
10
15
20
25
30
17
Incident Energy (MeV)
17-Cl-34m


MAT 1723
Inelastic
17-Cl-34m
Radionuclide Production Cross Section
17-Cl-34g
17-Cl-34m1
Cross Section (barns)
Incident Energy (MeV)
18
17-Cl-34m


MAT 1723
(n,n') 2α
17-Cl-34m
Radionuclide Production Cross Section
13-Al-26g
13-Al-26m1
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)
19
17-Cl-34m