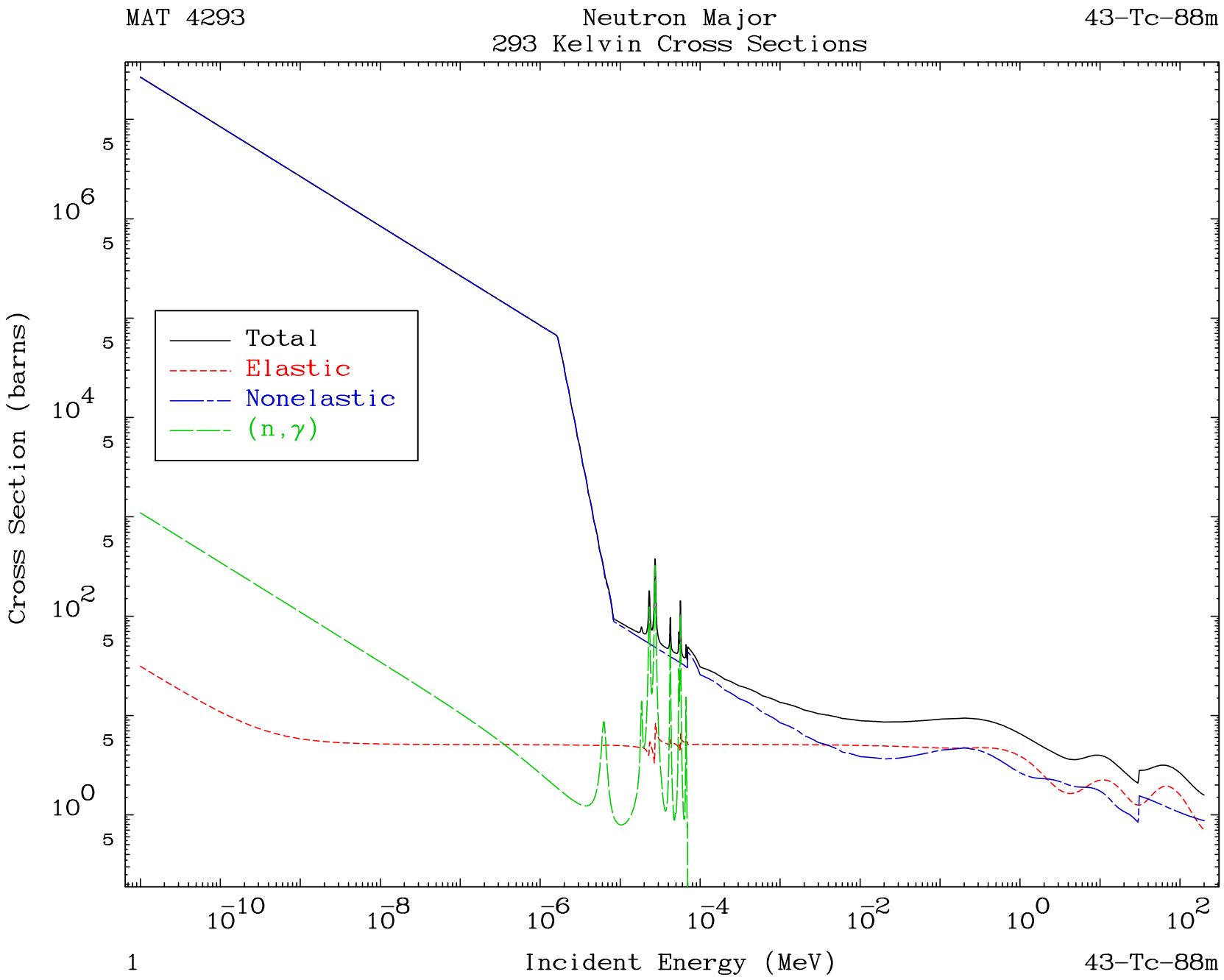
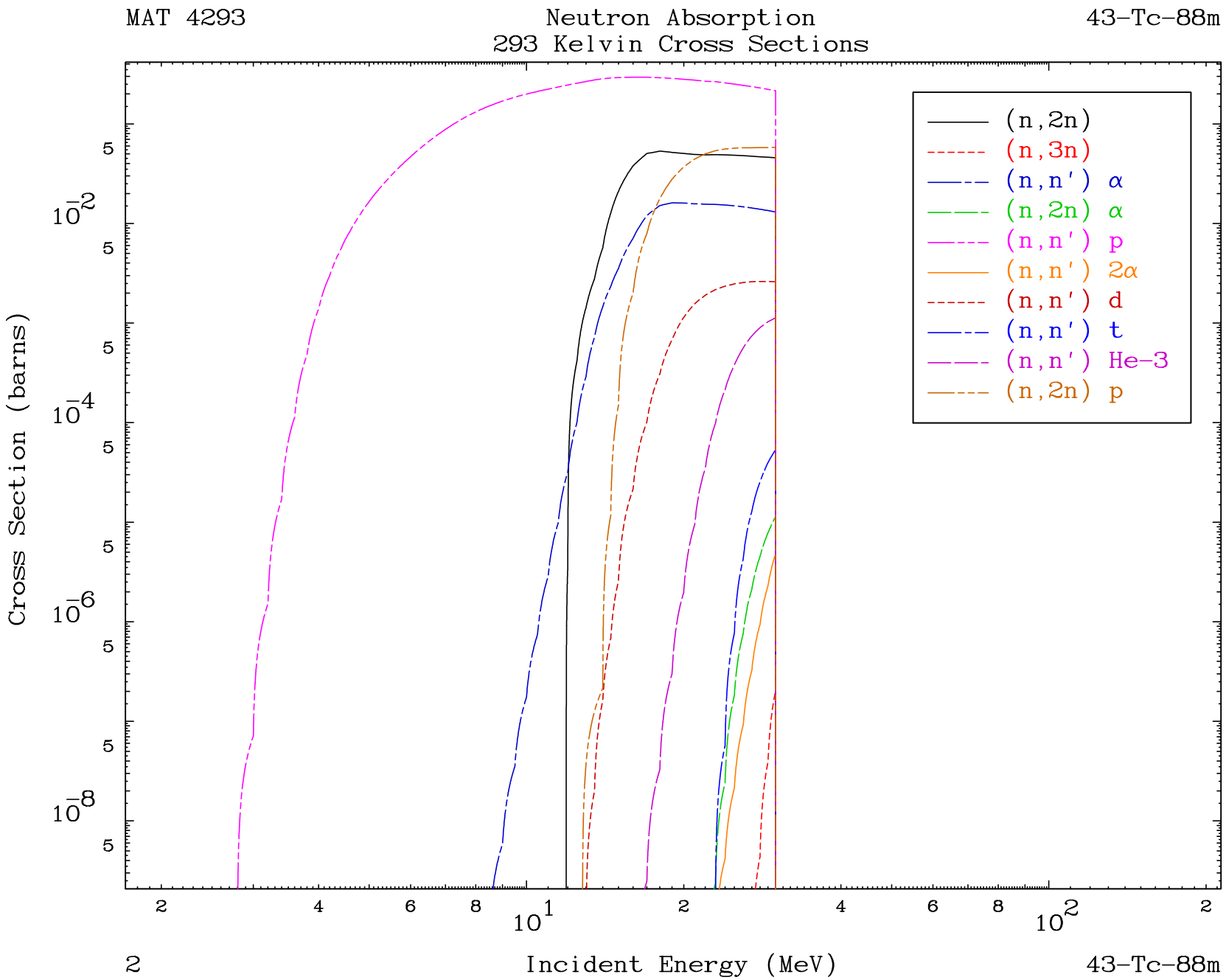
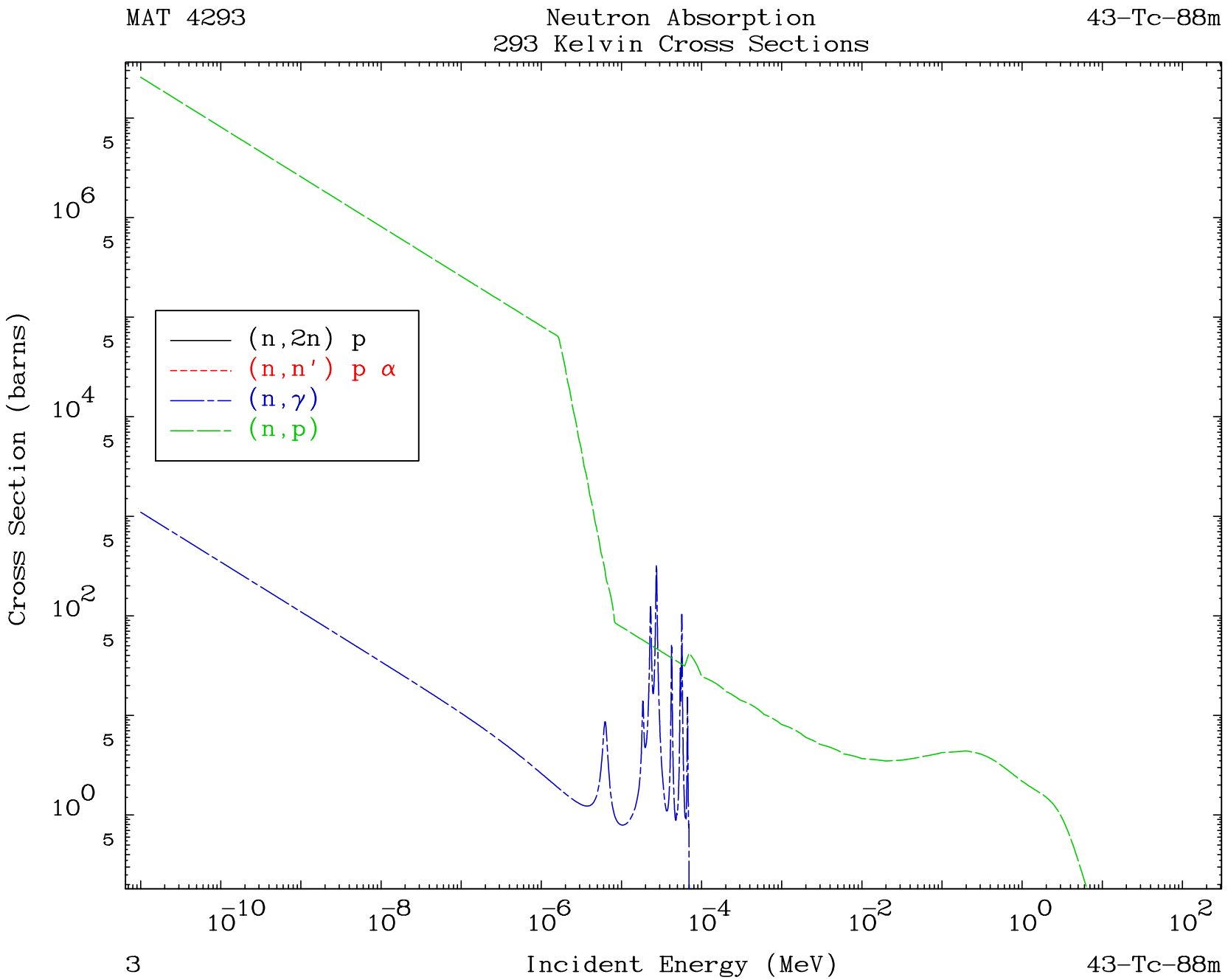
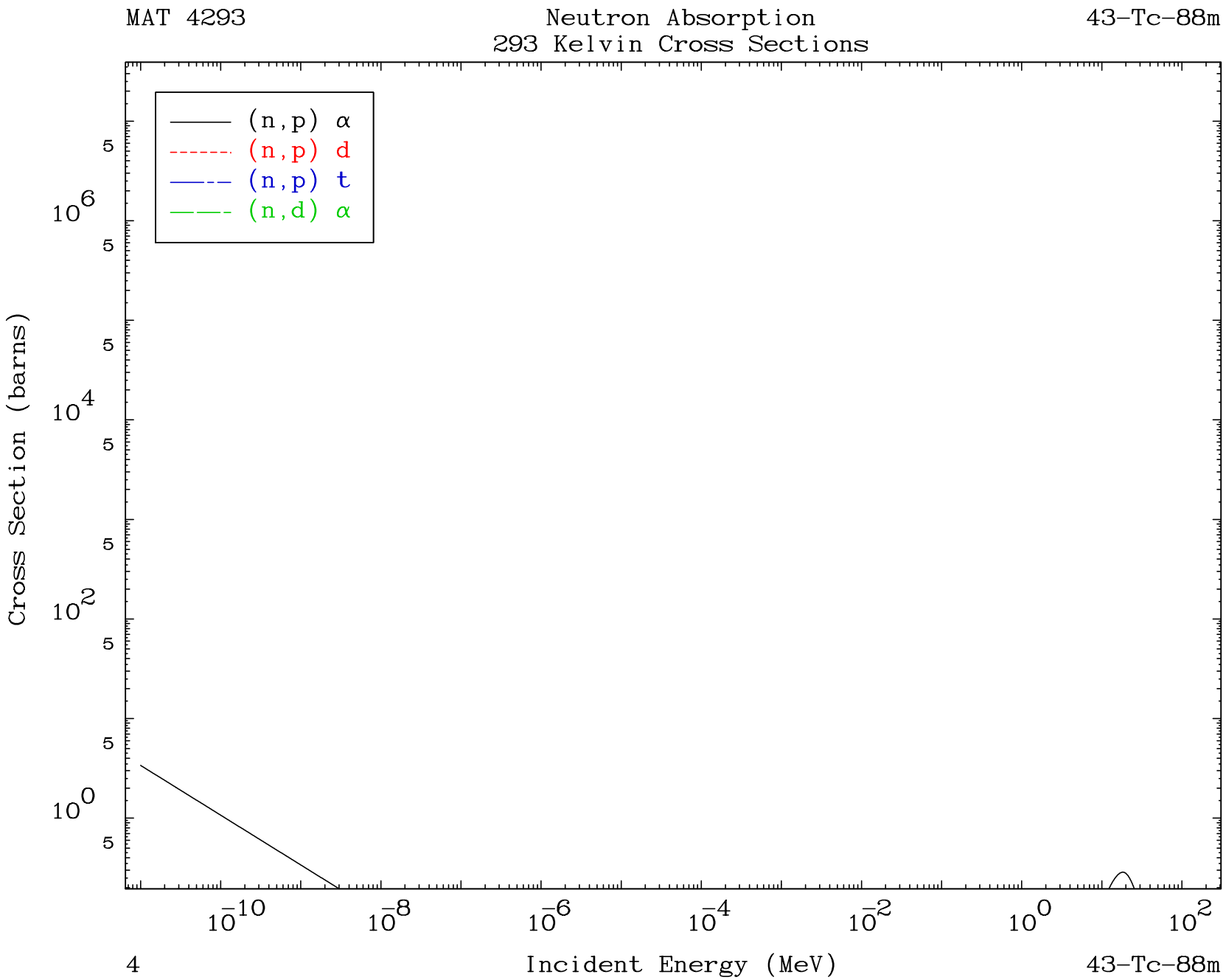
Program EVALPLOT
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

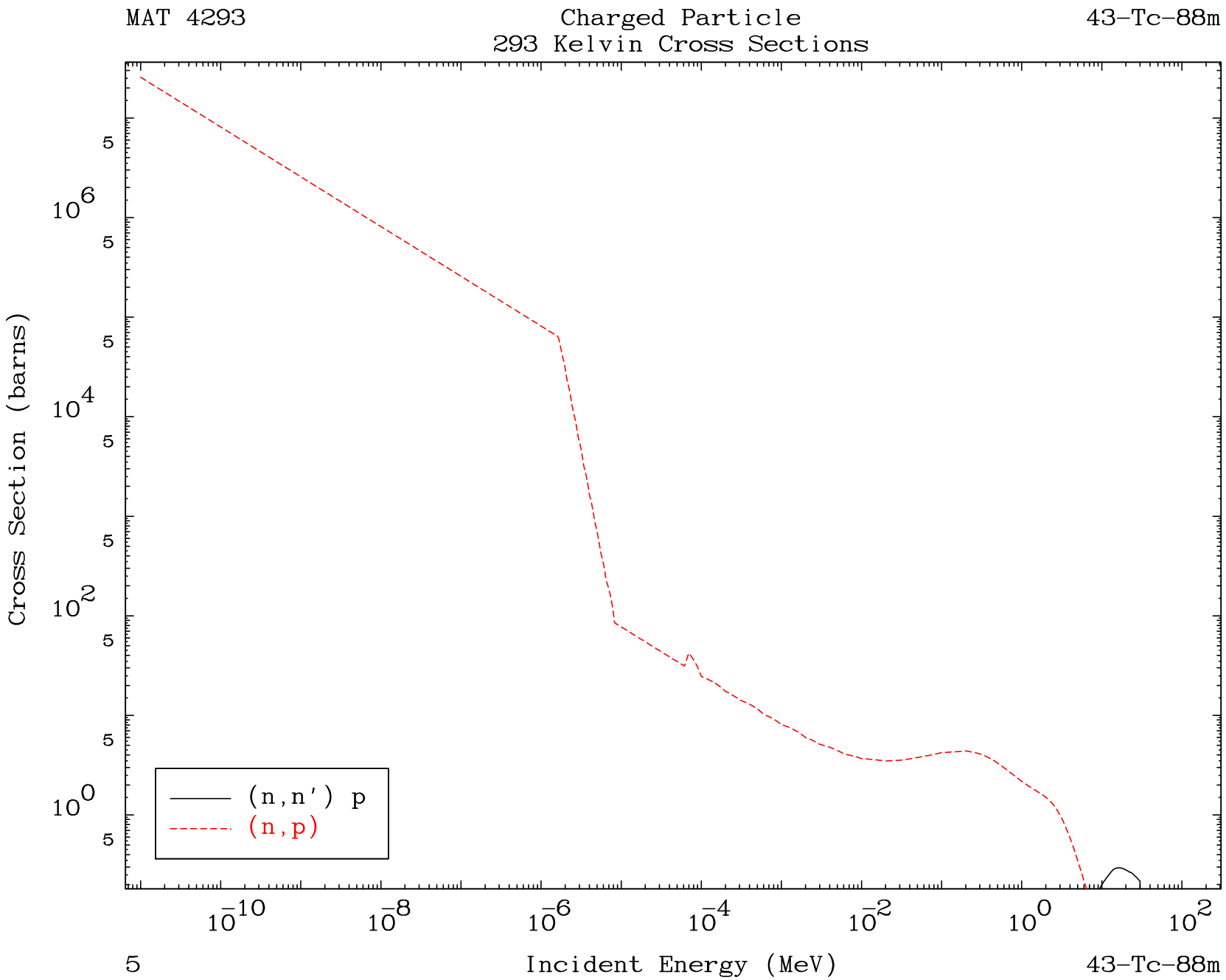
Press Mouse Button to Start

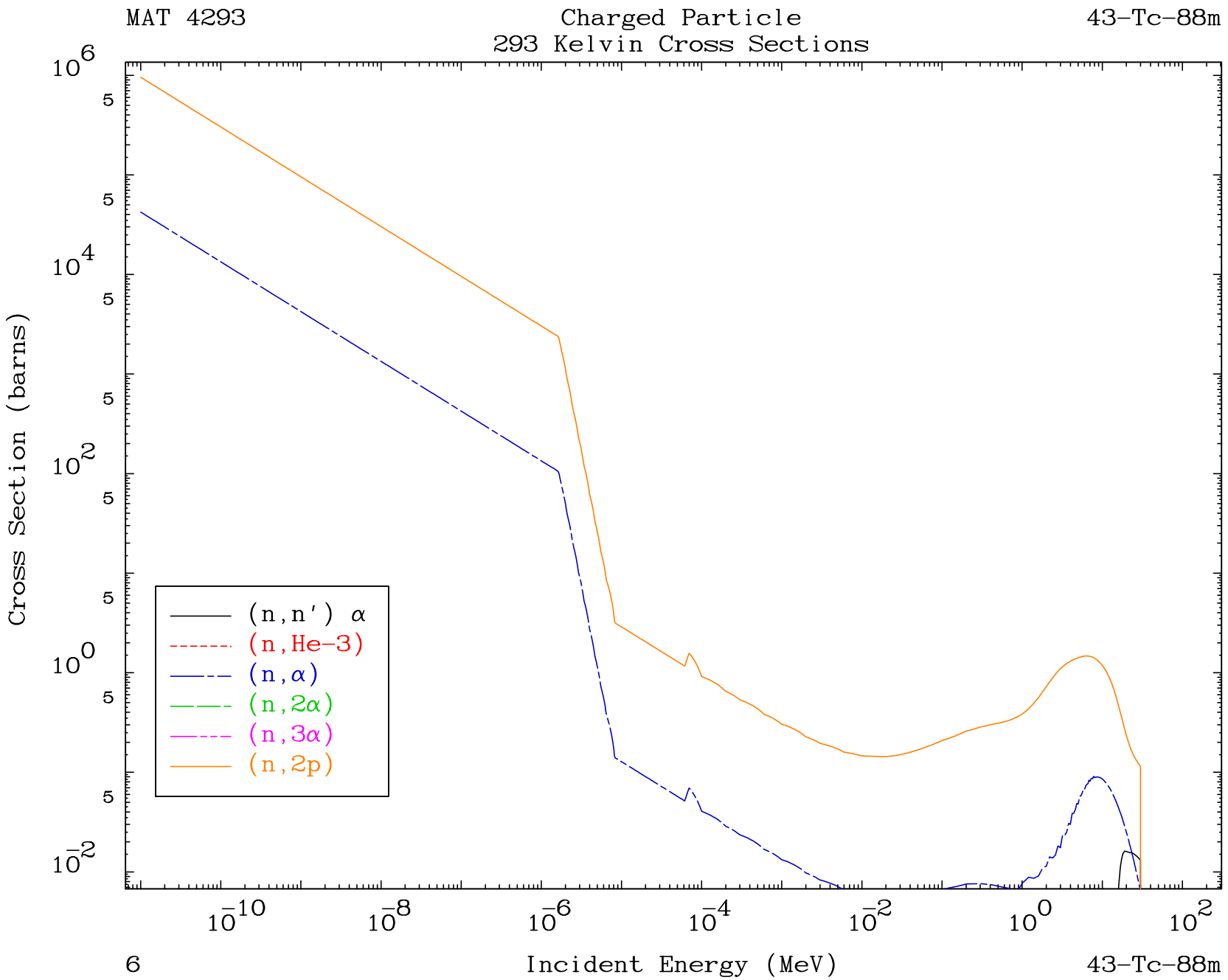

MAT 4293
Neutron Major
293 Kelvin Cross Sections
43-Tc-88m
Total
Elastic
Nonelastic
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
1
43-Tc-88m

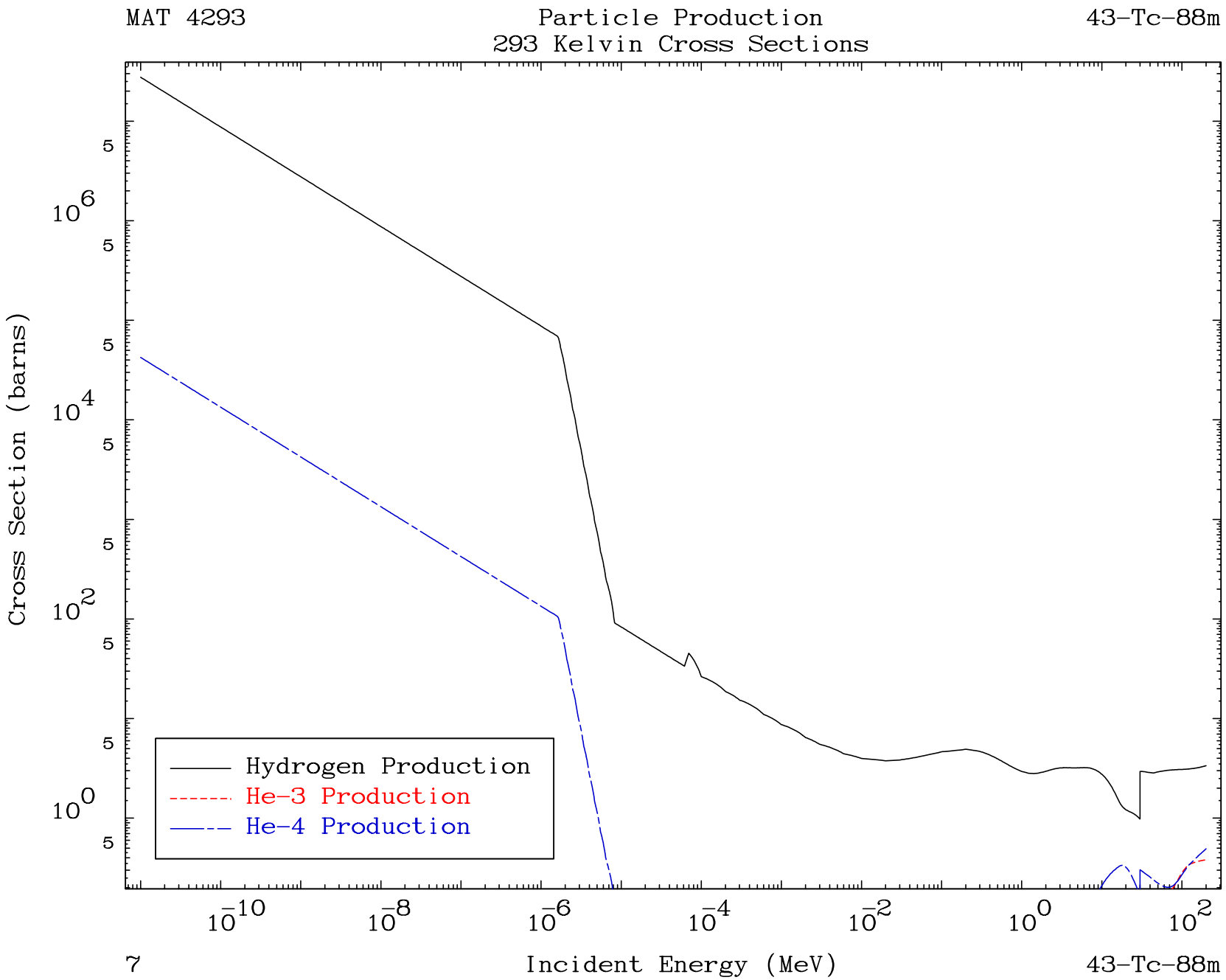

MAT 4293
Neutron Absorption
293 Kelvin Cross Sections
43-Tc-88m
Cross Section (barns)
Incident Energy (MeV)
43-Tc-88m
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p

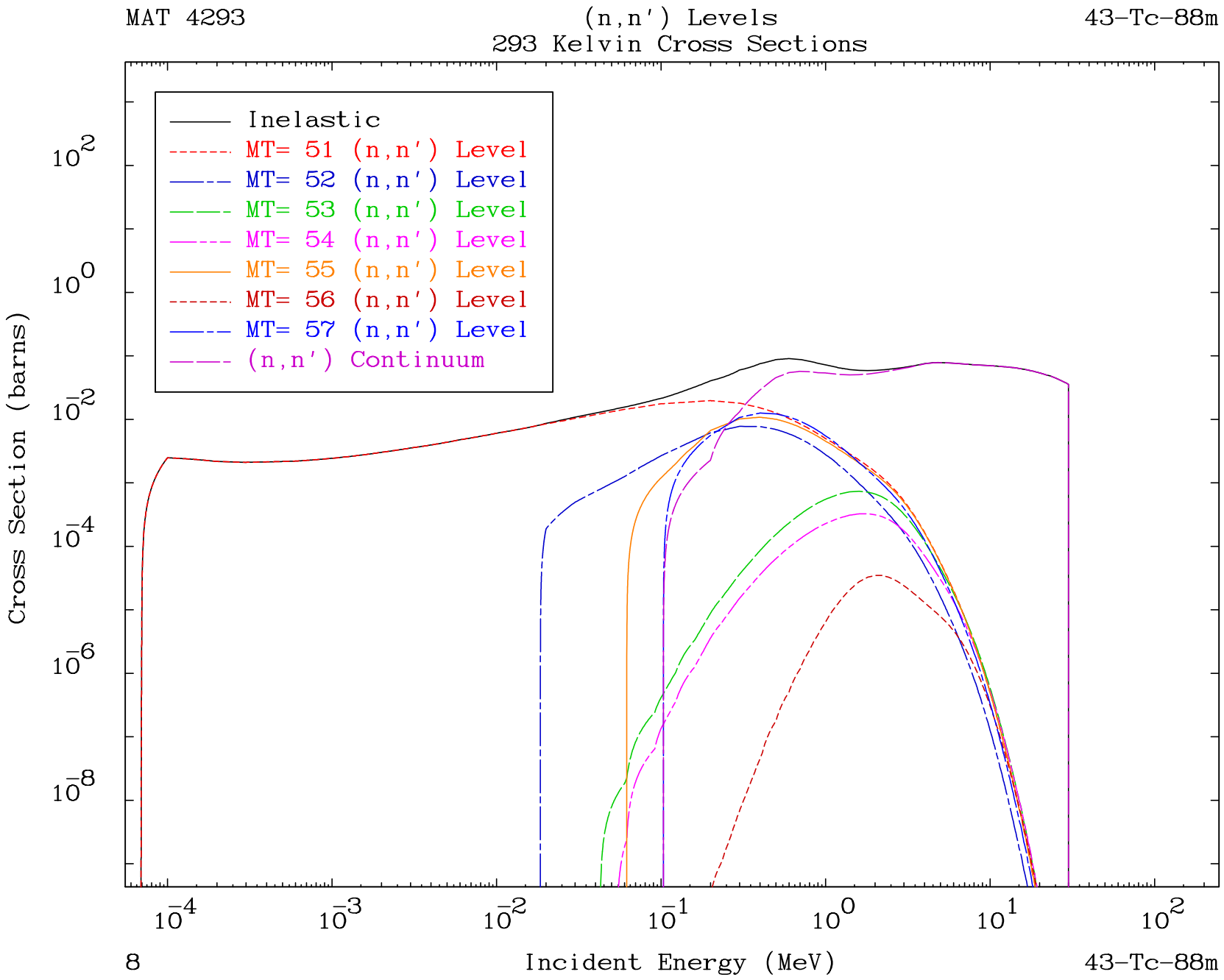

MAT 4293
Neutron Absorption
293 Kelvin Cross Sections
43-Tc-88m
(n,2n) p
(n,n') p α
(n,γ)
(n,p)
Cross Section (barns)
Incident Energy (MeV)
3
43-Tc-88m

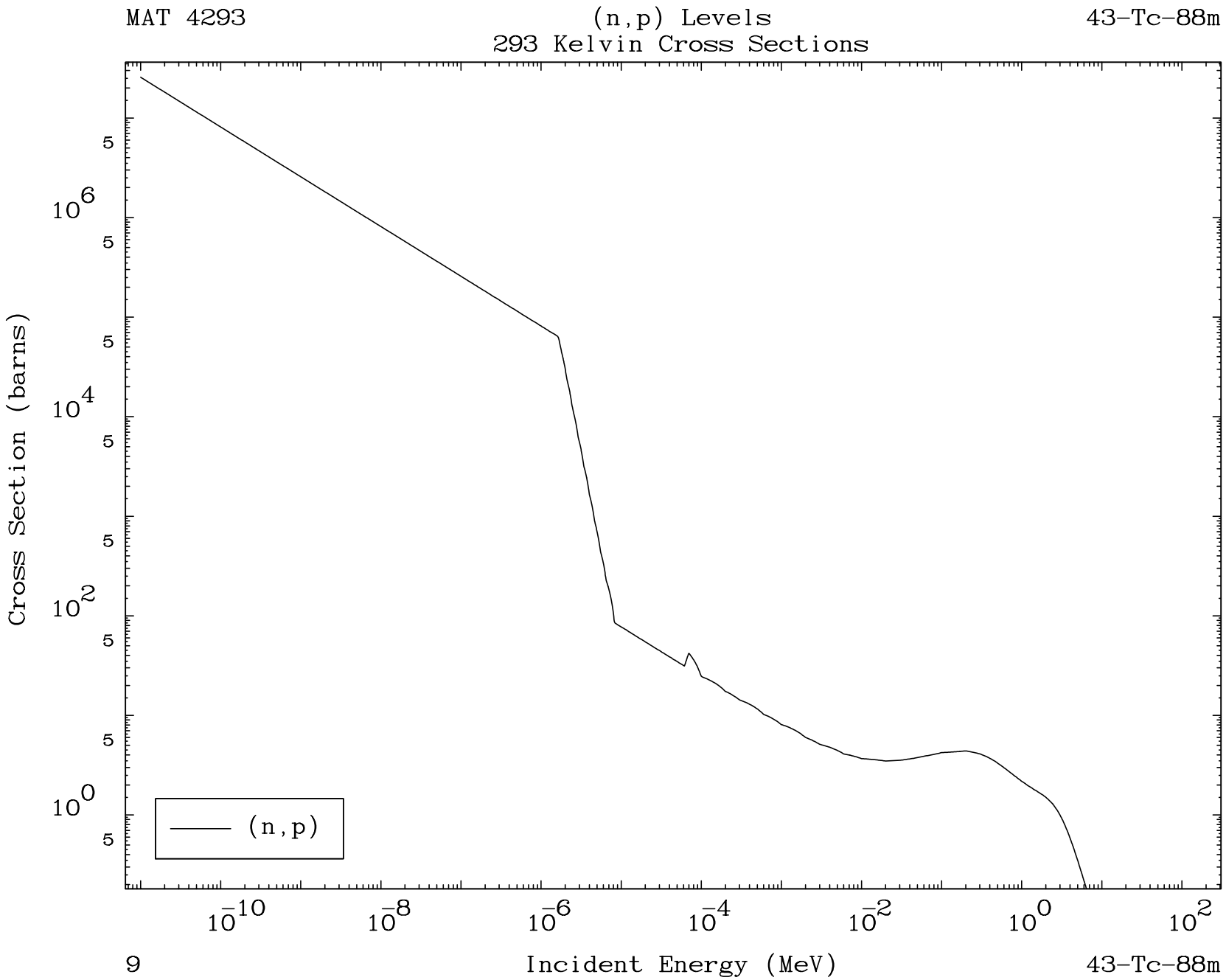

MAT 4293
Neutron Absorption
293 Kelvin Cross Sections
43-Tc-88m
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
10^6
10^4
10^2
10^0
5
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
Incident Energy (MeV)
4
43-Tc-88m

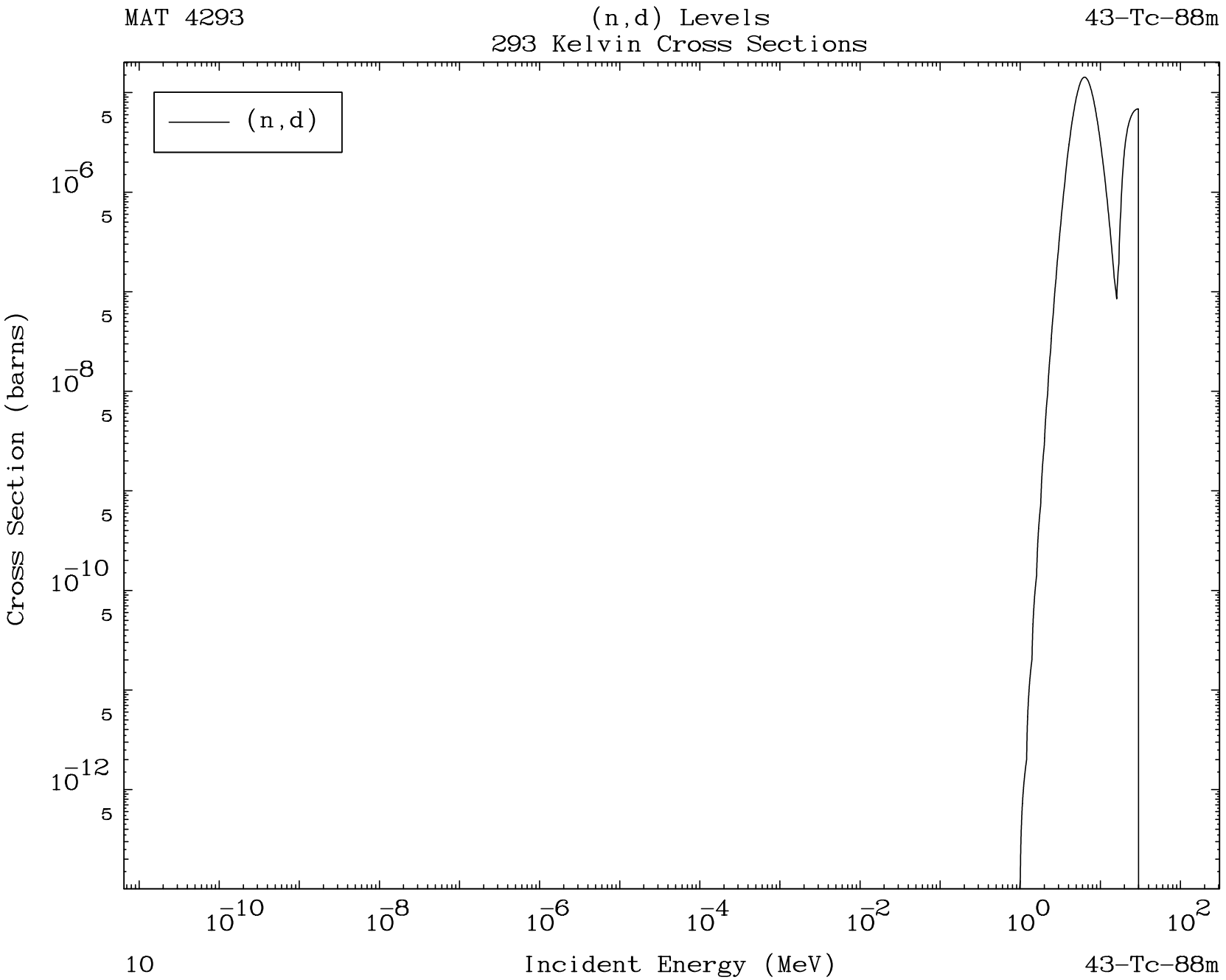

MAT 4293
Charged Particle
293 Kelvin Cross Sections
43-Tc-88m
Cross Section (barns)
10^6
10^4
10^2
10^0
(n,n') p
(n,p)
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
Incident Energy (MeV)
43-Tc-88m

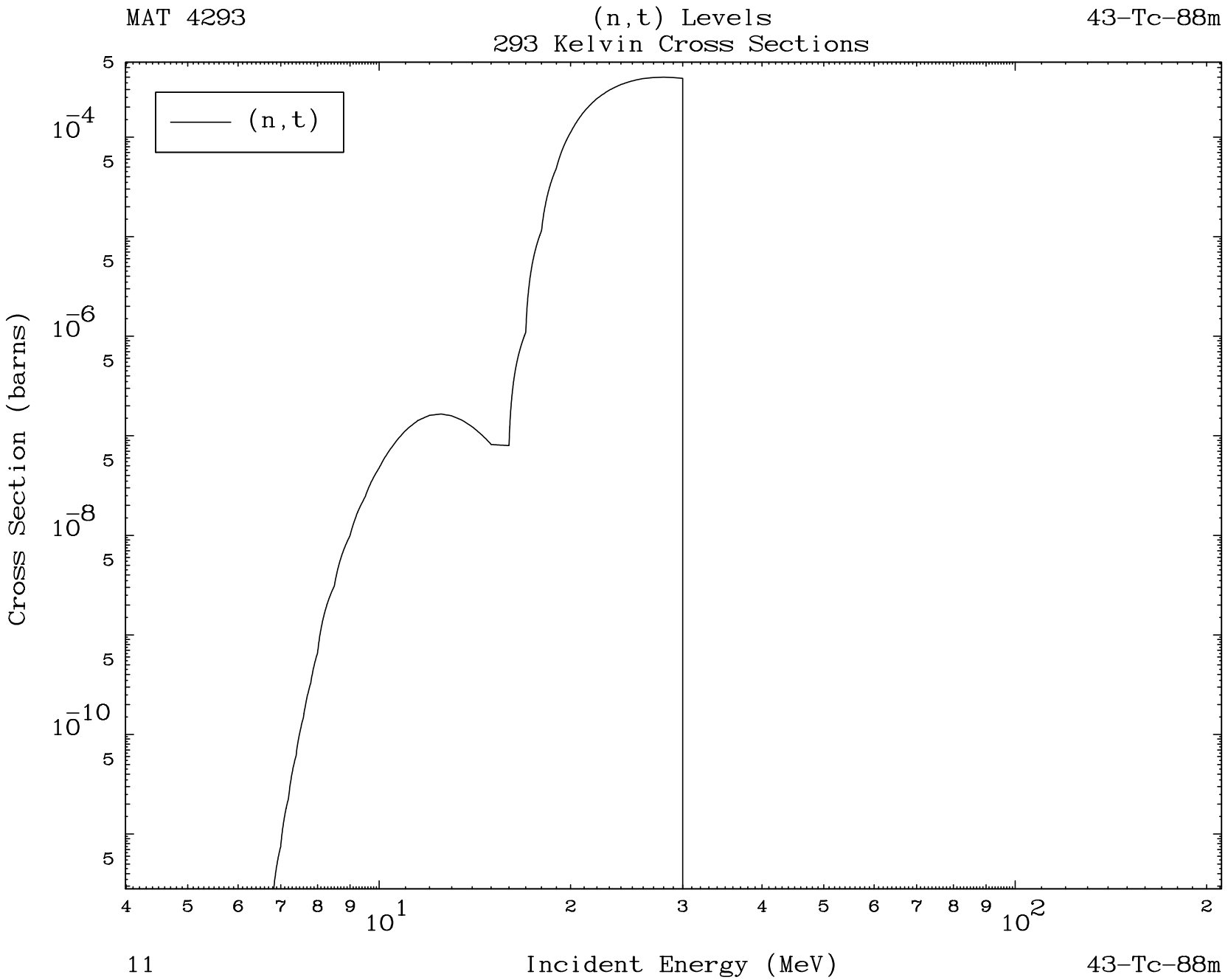

MAT 4293
Charged Particle
293 Kelvin Cross Sections
43-Tc-88m
Cross Section (barns)
Incident Energy (MeV)
(n,n') α
(n,He-3)
(n,α)
(n,2α)
(n,3α)
(n,2p)
6
43-Tc-88m

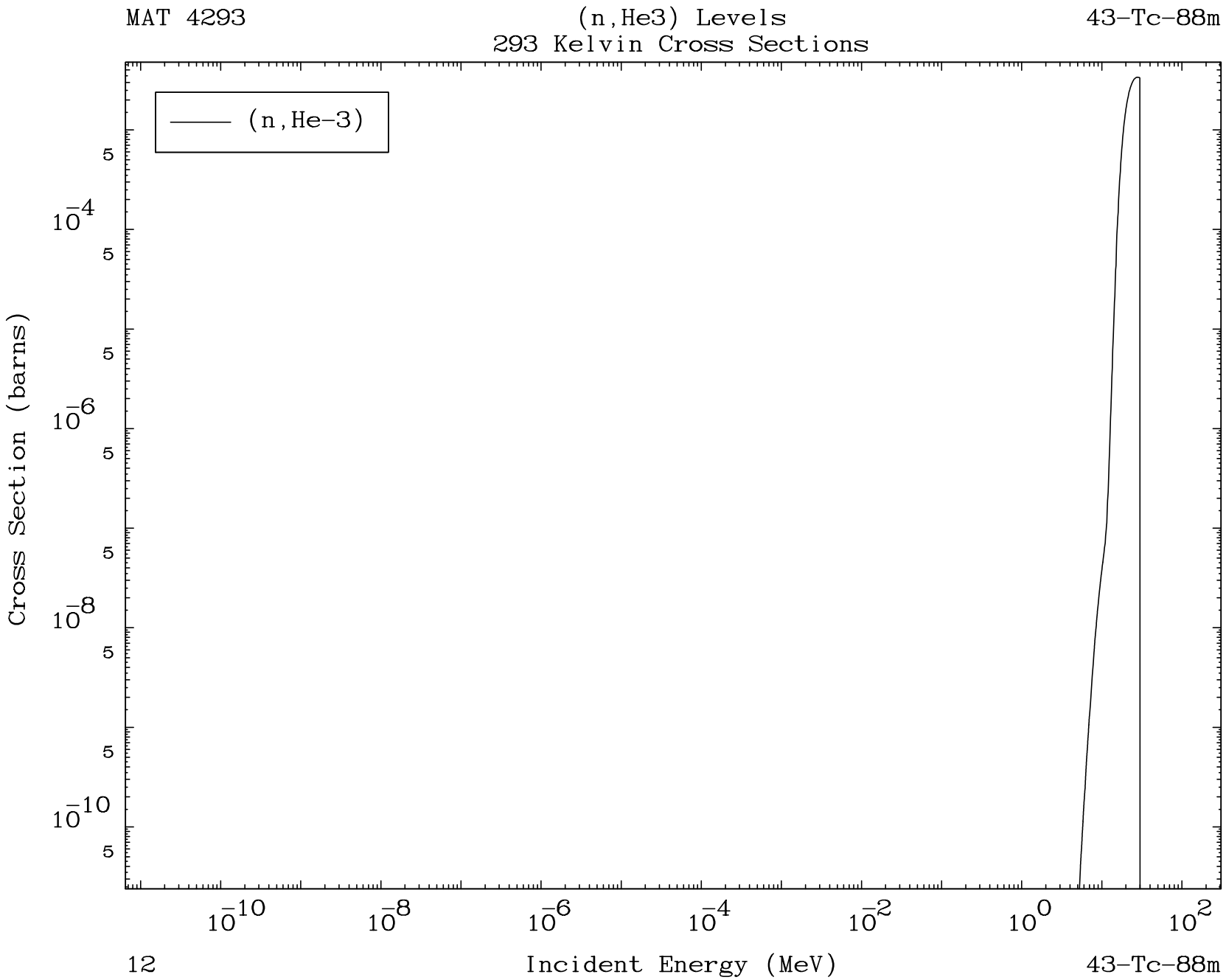

MAT 4293
Particle Production
293 Kelvin Cross Sections
43-Tc-88m
Cross Section (barns)
Incident Energy (MeV)
Hydrogen Production
He-3 Production
He-4 Production
7
43-Tc-88m

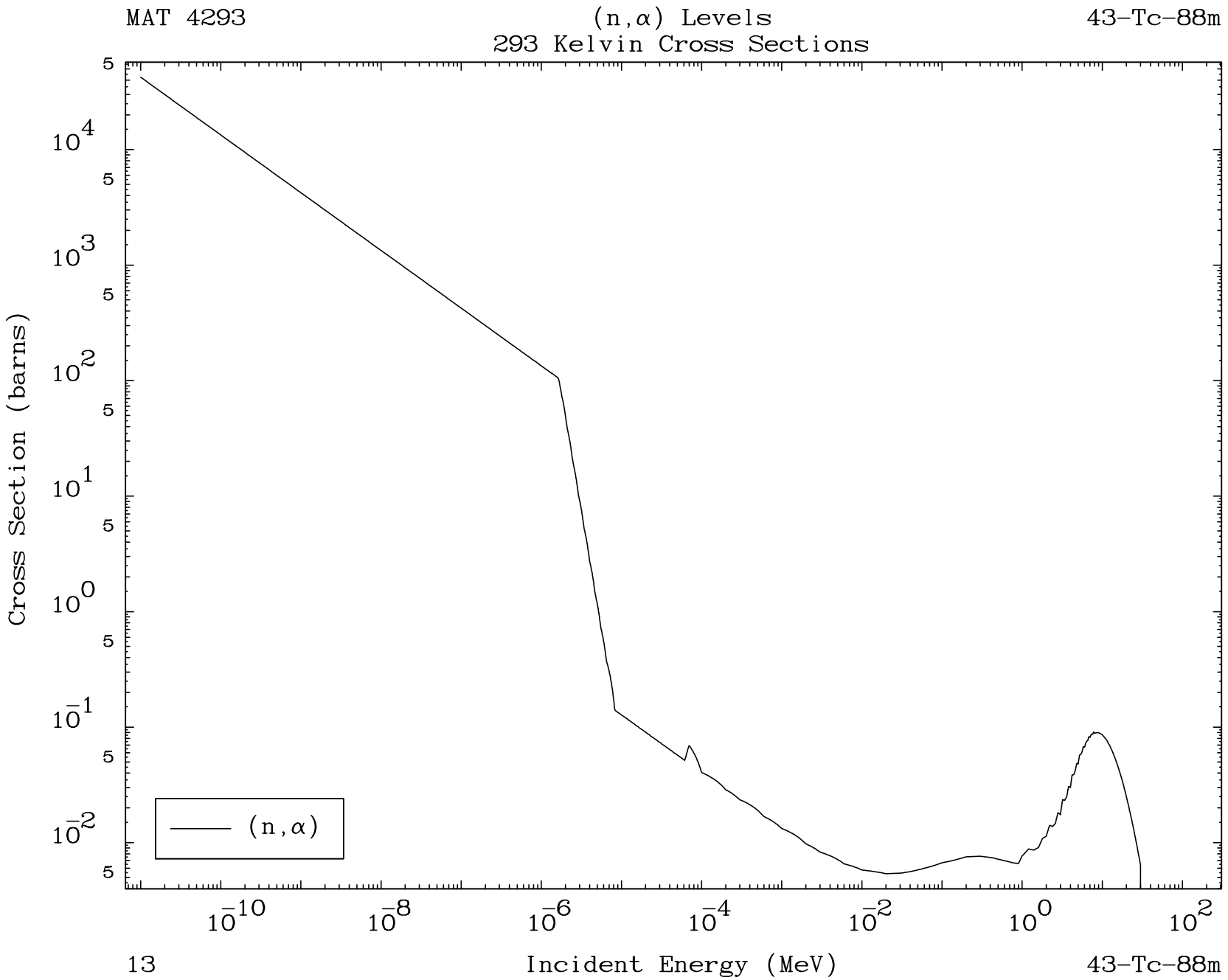

MAT 4293
(n,n') Levels
293 Kelvin Cross Sections
43-Tc-88m
Inelastic
MT= 51 (n,n') Level
MT= 52 (n,n') Level
MT= 53 (n,n') Level
MT= 54 (n,n') Level
MT= 55 (n,n') Level
MT= 56 (n,n') Level
MT= 57 (n,n') Level
(n,n') Continuum
Cross Section (barns)
Incident Energy (MeV)
8
43-Tc-88m

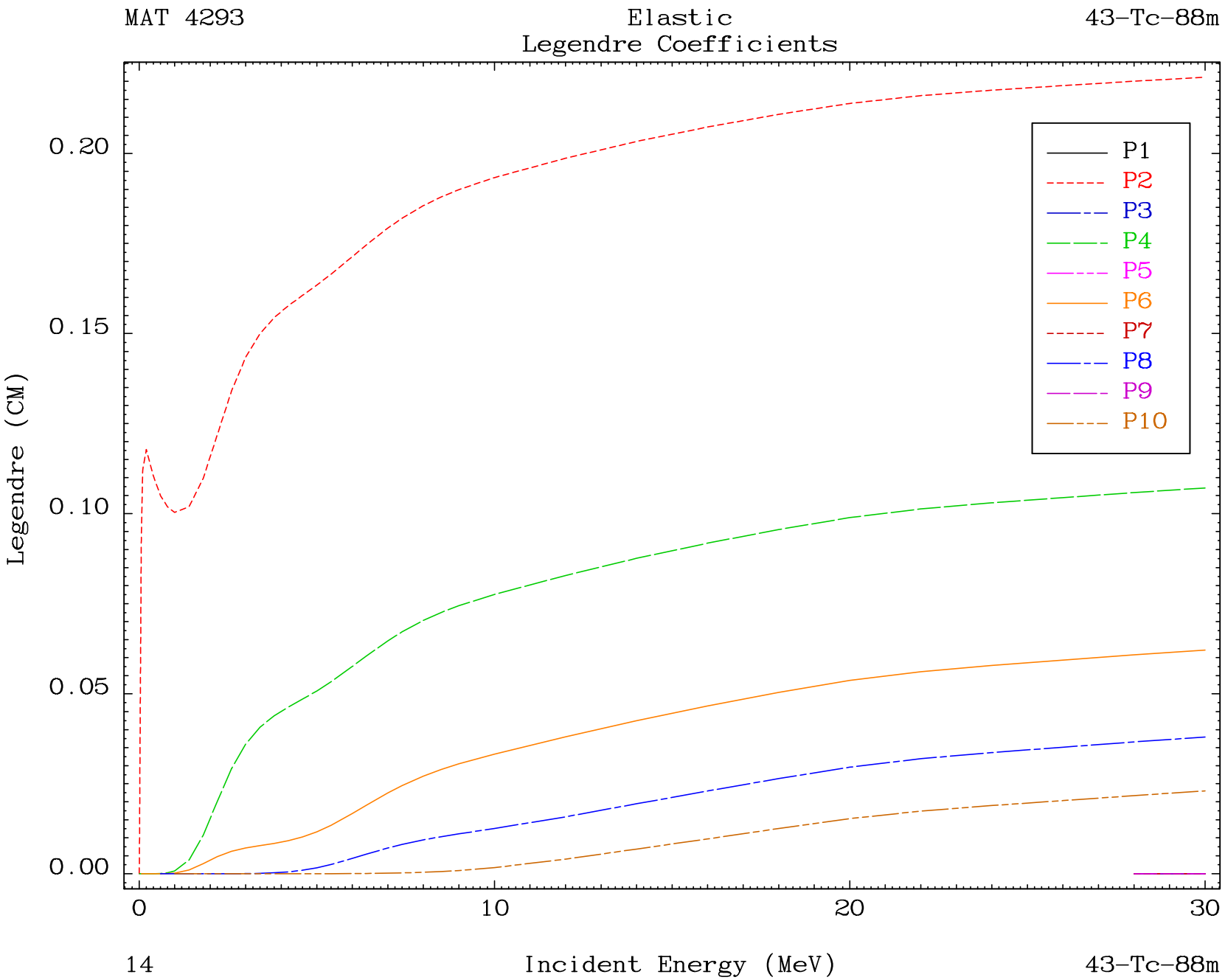

MAT 4293
(n,p) Levels
43-Tc-88m
293 Kelvin Cross Sections
Cross Section (barns)
10^6
10^4
10^2
10^0
(n,p)
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
Incident Energy (MeV)
9
43-Tc-88m

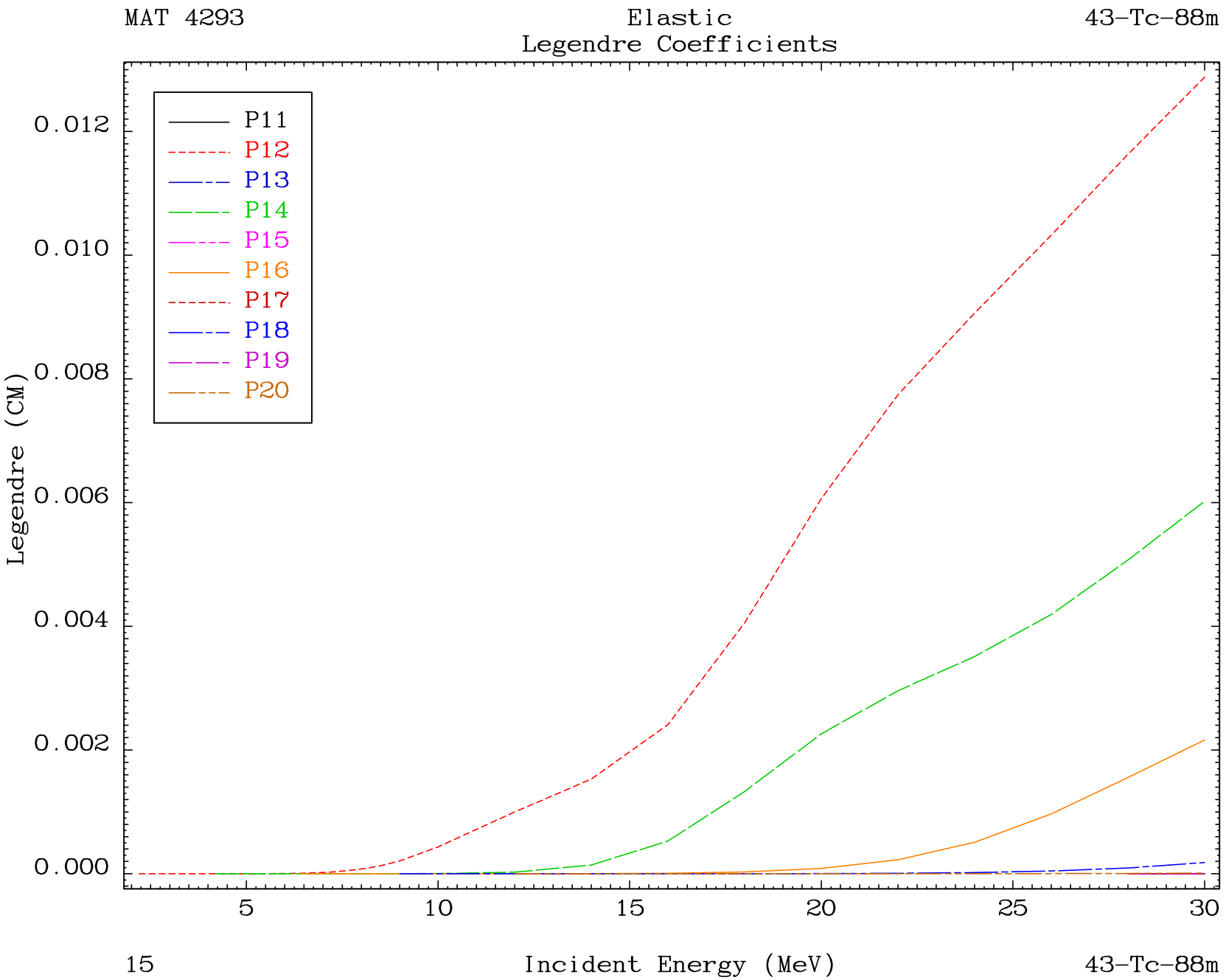

MAT 4293
(n,d) Levels
43-Tc-88m
293 Kelvin Cross Sections
(n,d)
Cross Section (barns)
Incident Energy (MeV)
10
43-Tc-88m

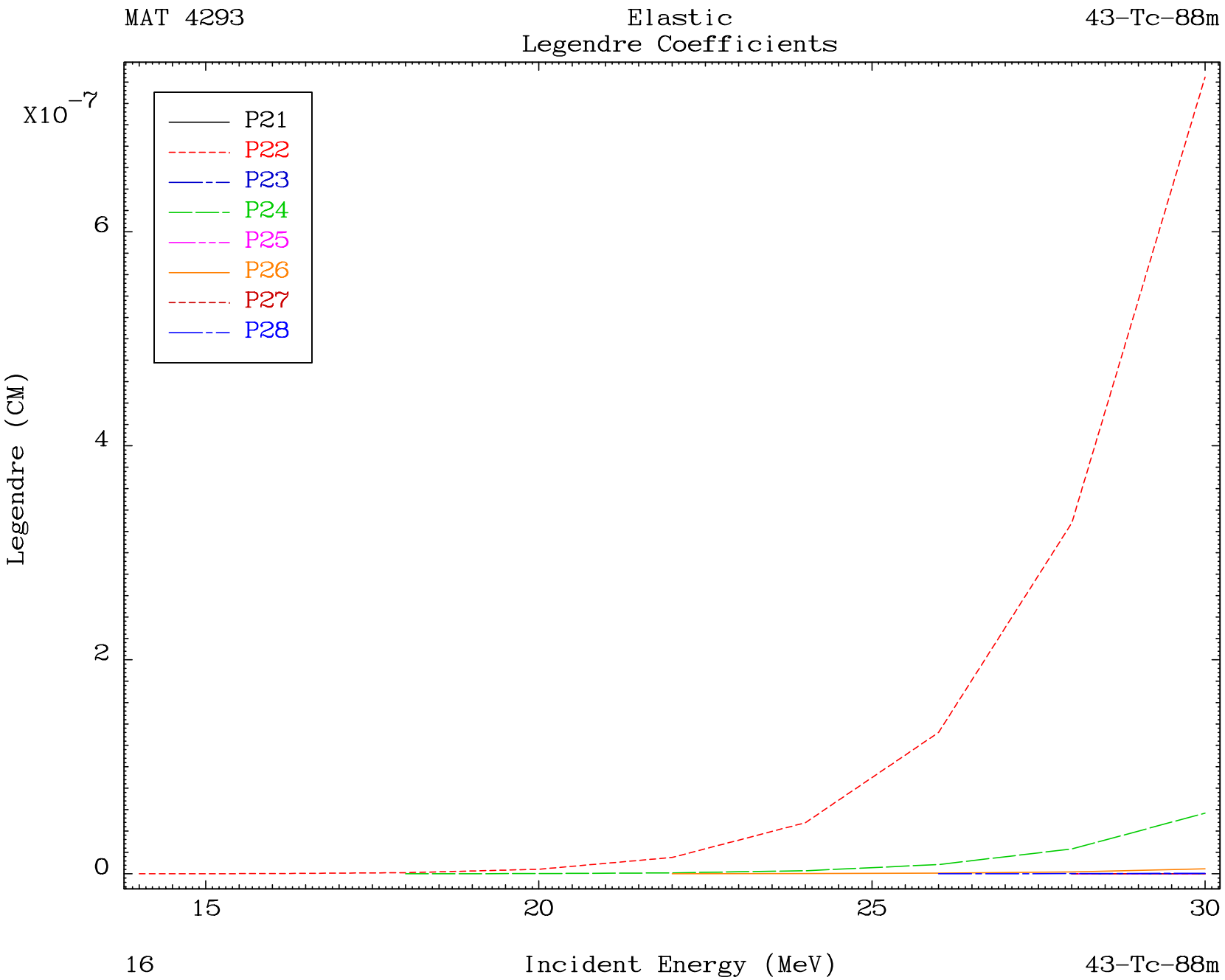

MAT 4293
(n,t) Levels
43-Tc-88m
293 Kelvin Cross Sections
(n,t)
Cross Section (barns)
Incident Energy (MeV)
11
43-Tc-88m

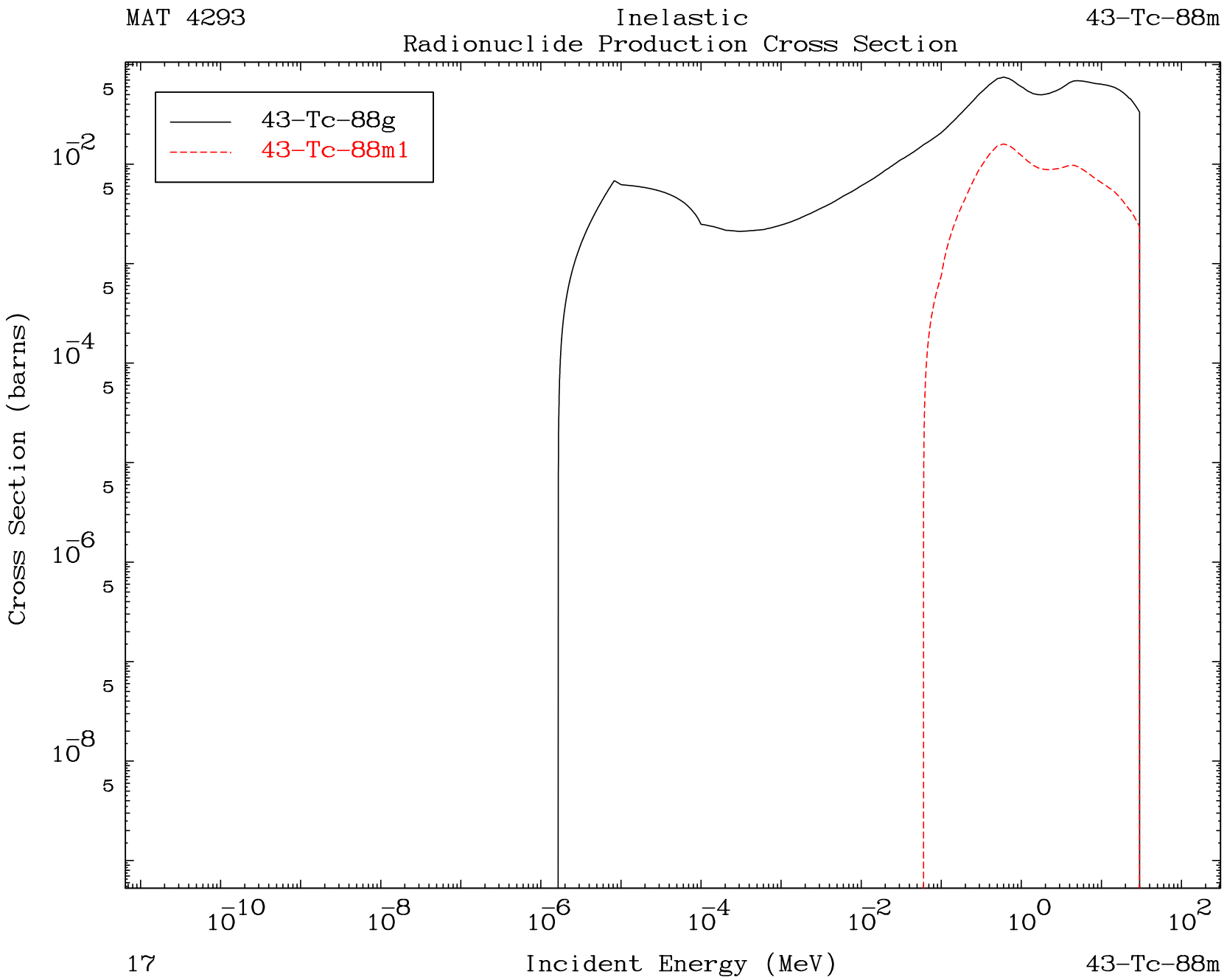

MAT 4293
(n,He3) Levels
43-Tc-88m
293 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
Incident Energy (MeV)
12
43-Tc-88m

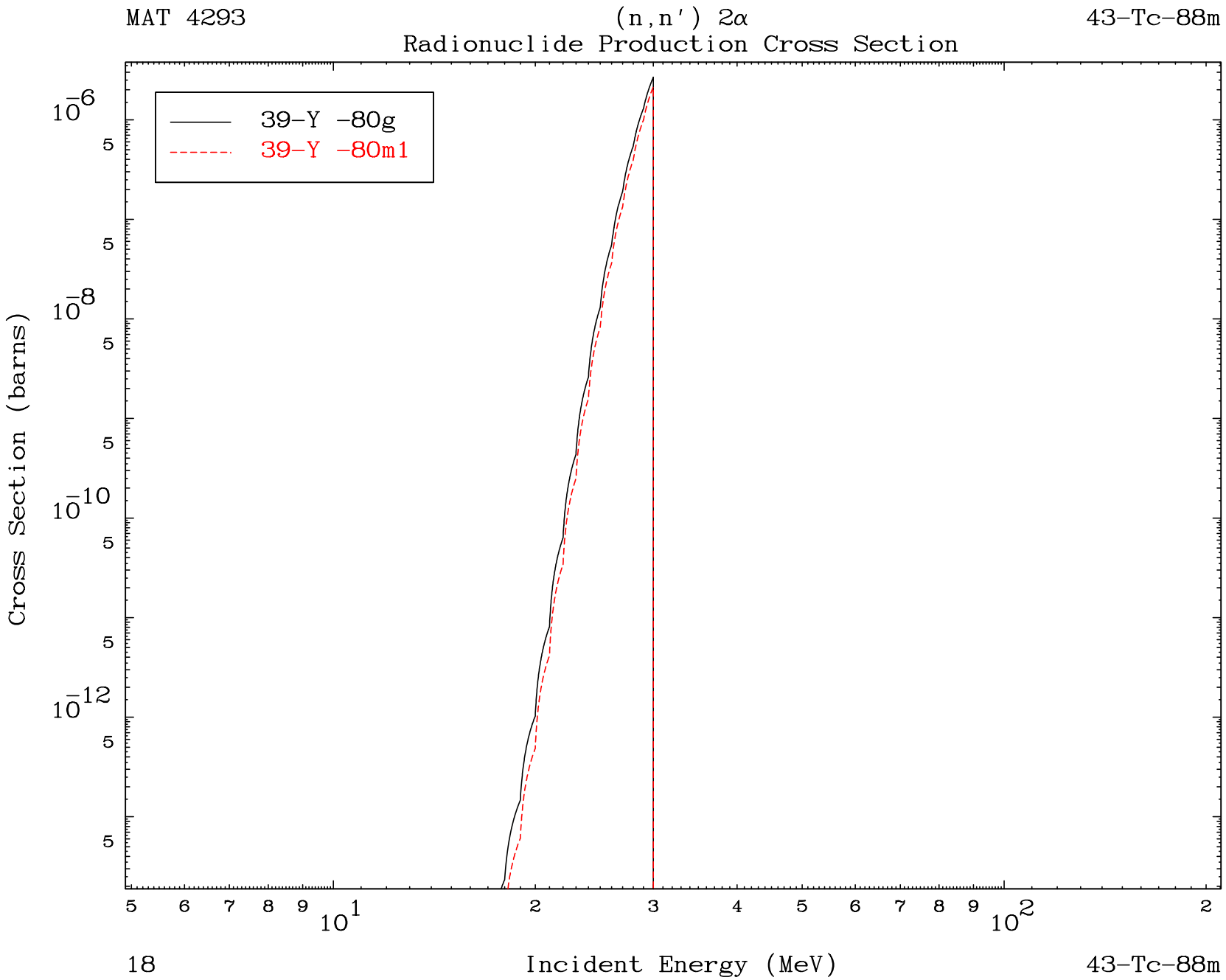

MAT 4293
(n,α) Levels
43-Tc-88m
293 Kelvin Cross Sections
Cross Section (barns)
10^4
10^3
10^2
10^1
10^0
10^-1
10^-2
(n,α)
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
Incident Energy (MeV)
13
43-Tc-88m

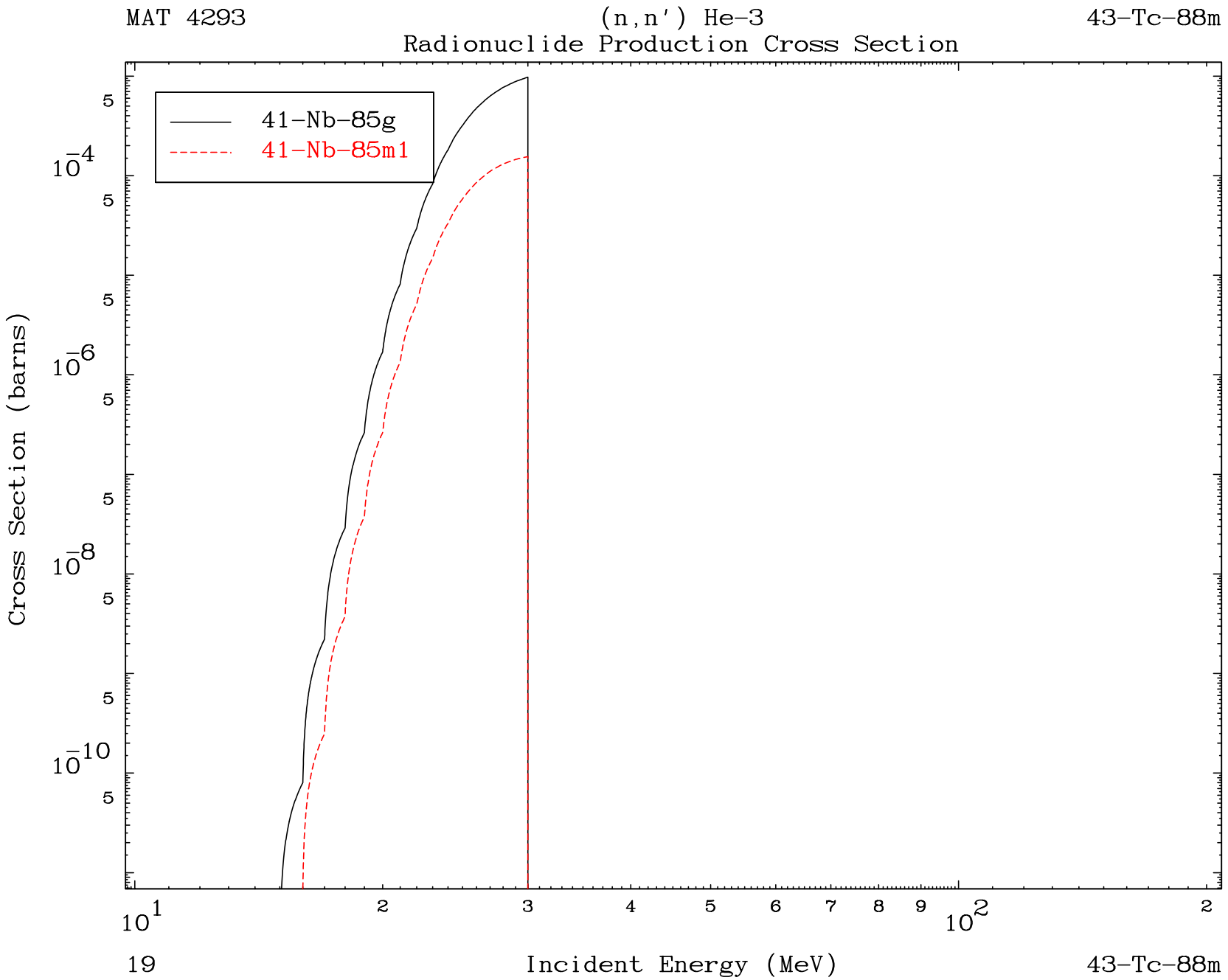

MAT 4293
Elastic
Legendre Coefficients
43-Tc-88m
0.20
0.15
0.10
0.05
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
0
10
20
30
14
Incident Energy (MeV)
43-Tc-88m

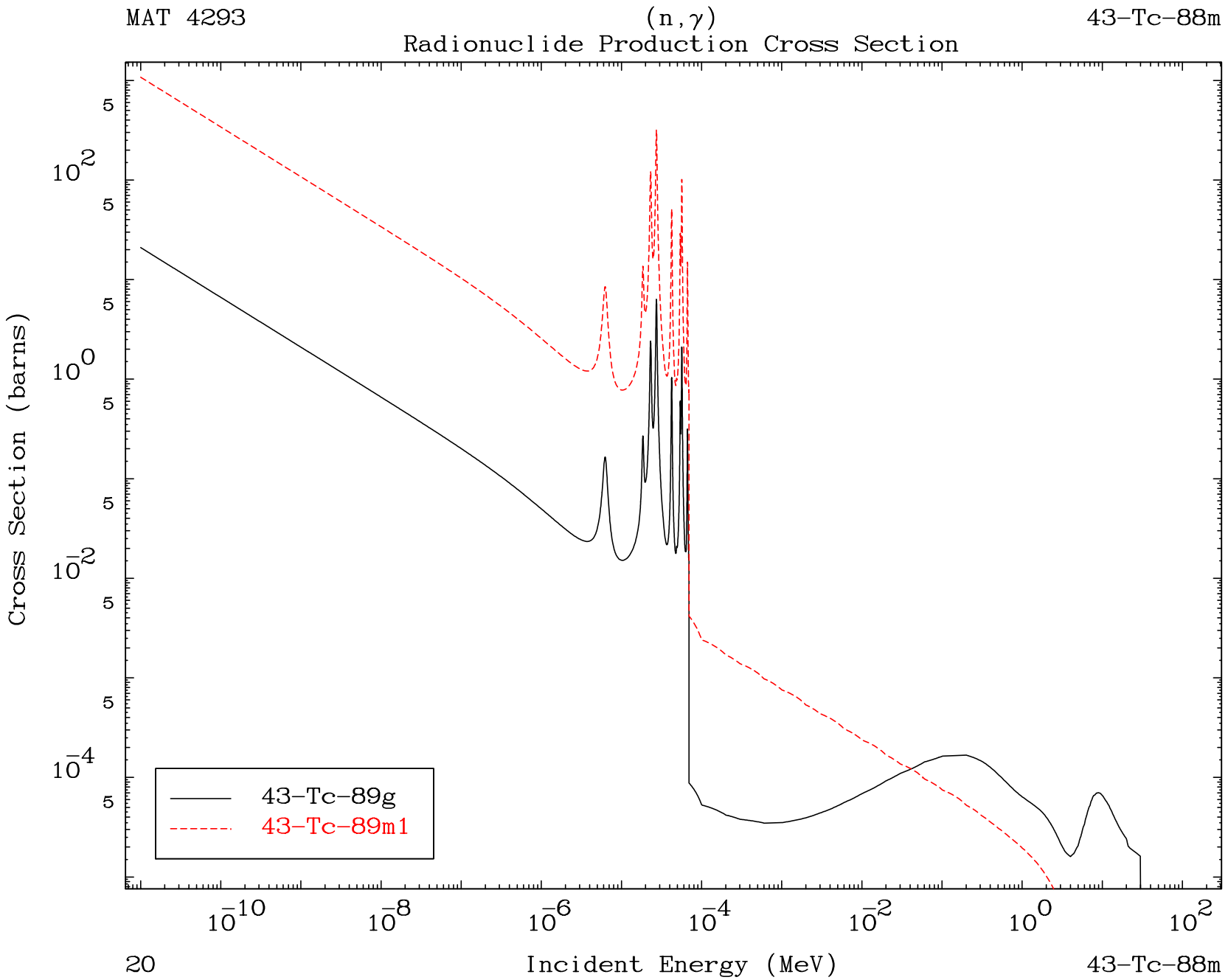

MAT 4293
Elastic
Legendre Coefficients
43-Tc-88m
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
Legendre (CM)
0.012
0.010
0.008
0.006
0.004
0.002
0.000
5
10
15
20
25
30
15
Incident Energy (MeV)
43-Tc-88m

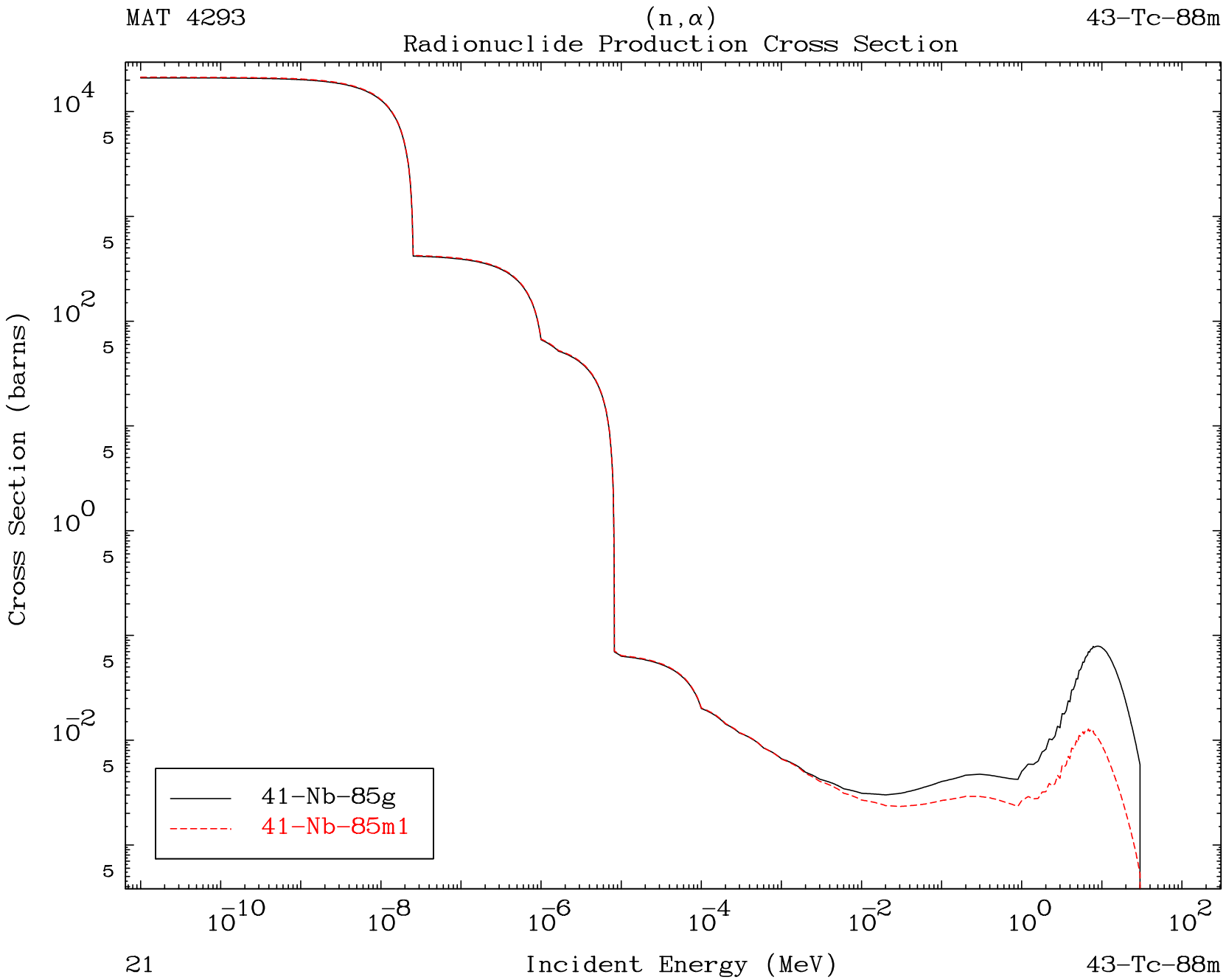

MAT 4293
Elastic
Legendre Coefficients
43-Tc-88m
X10^{-7}
P21
P22
P23
P24
P25
P26
P27
P28
Legendre (CM)
6
4
2
0
15
20
25
30
16
Incident Energy (MeV)
43-Tc-88m

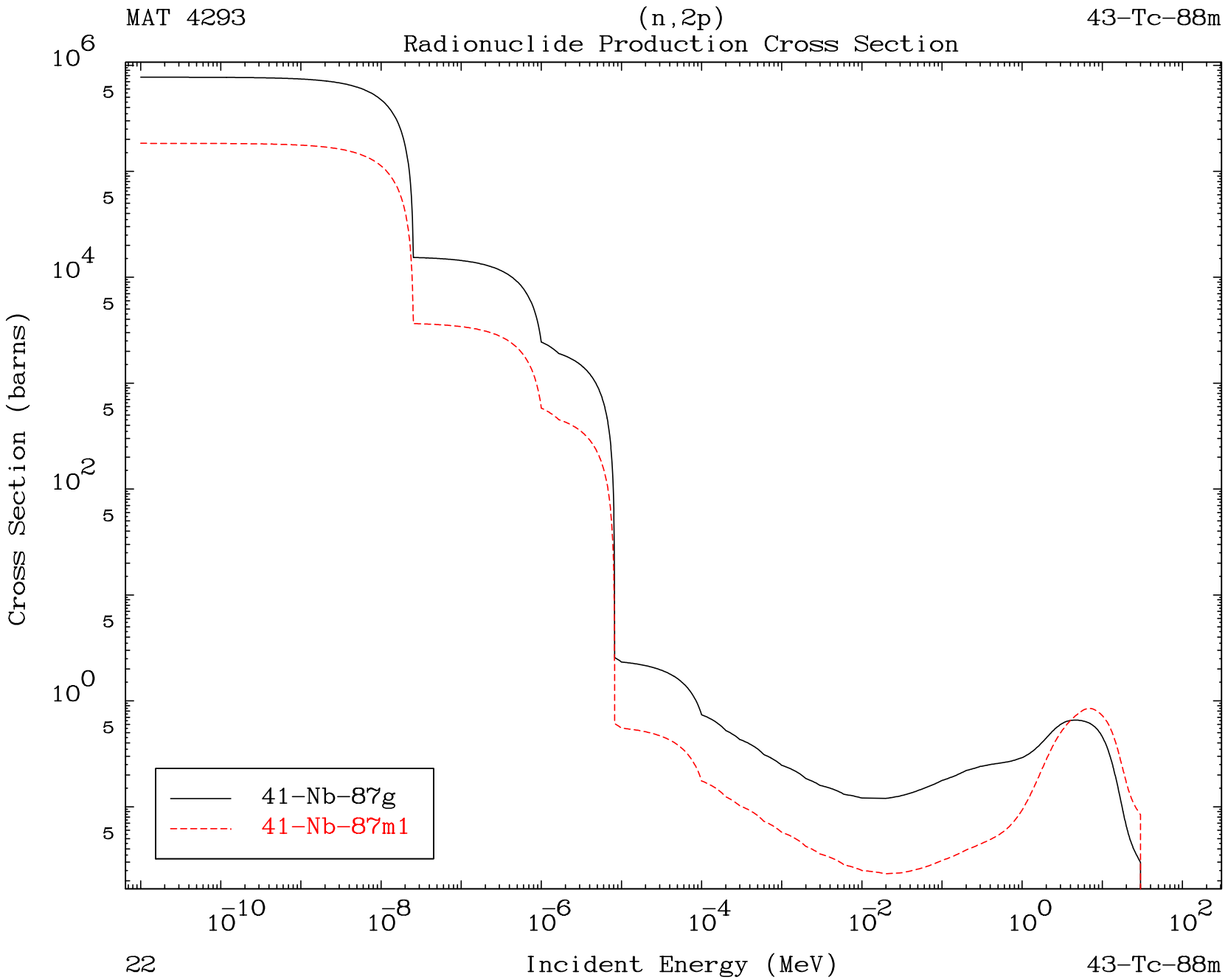

MAT 4293
Inelastic
43-Tc-88m
Radionuclide Production Cross Section
43-Tc-88g
43-Tc-88m1
Cross Section (barns)
Incident Energy (MeV)
17
43-Tc-88m

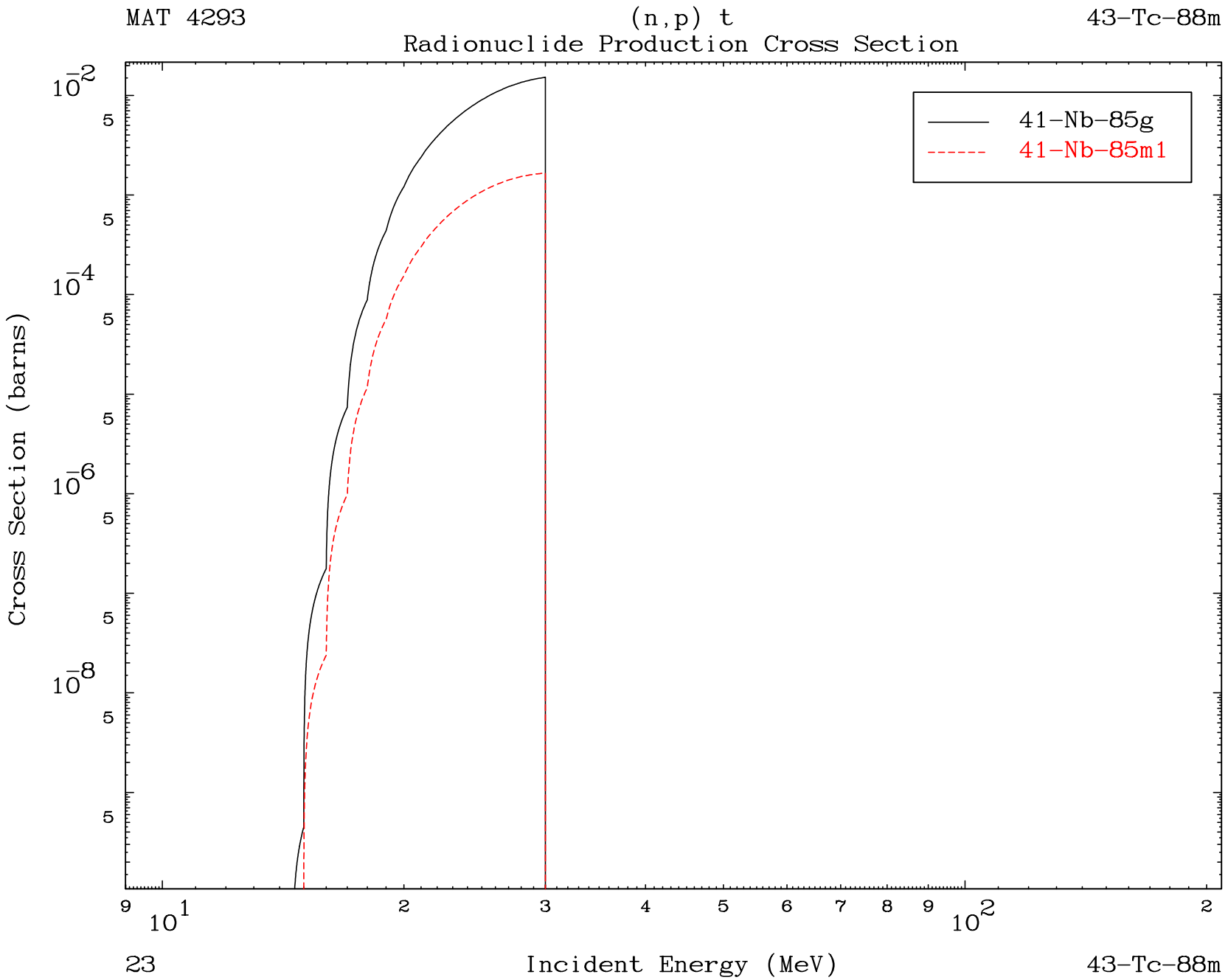

MAT 4293
(n,n') 2α
43-Tc-88m
Radionuclide Production Cross Section
39-Y -80g
39-Y -80m1
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
5
5
5
5
5
5
5 6 7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
18
Incident Energy (MeV)
43-Tc-88m


MAT 4293
(n,n') He-3
43-Tc-88m
Radionuclide Production Cross Section
41-Nb-85g
41-Nb-85m1
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^1
10^2
Incident Energy (MeV)
19
43-Tc-88m


MAT 4293
(n,γ)
43-Tc-88m
Radionuclide Production Cross Section
Cross Section (barns)
10^2
10^0
10^-2
10^-4
5
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
Incident Energy (MeV)
43-Tc-89g
43-Tc-89m1
20
43-Tc-88m


MAT 4293
(n,α)
43-Tc-88m
Radionuclide Production Cross Section
Cross Section (barns)
10^4
10^2
10^0
10^-2
41-Nb-85g
41-Nb-85m1
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
21
Incident Energy (MeV)
43-Tc-88m


MAT 4293
(n,2p)
43-Tc-88m
Radionuclide Production Cross Section
Cross Section (barns)
10^6
10^4
10^2
10^0
5
41-Nb-87g
41-Nb-87m1
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
22
Incident Energy (MeV)
43-Tc-88m


MAT 4293
(n,p) t
43-Tc-88m
Radionuclide Production Cross Section
41-Nb-85g
41-Nb-85m1
Cross Section (barns)
Incident Energy (MeV)
23
43-Tc-88m