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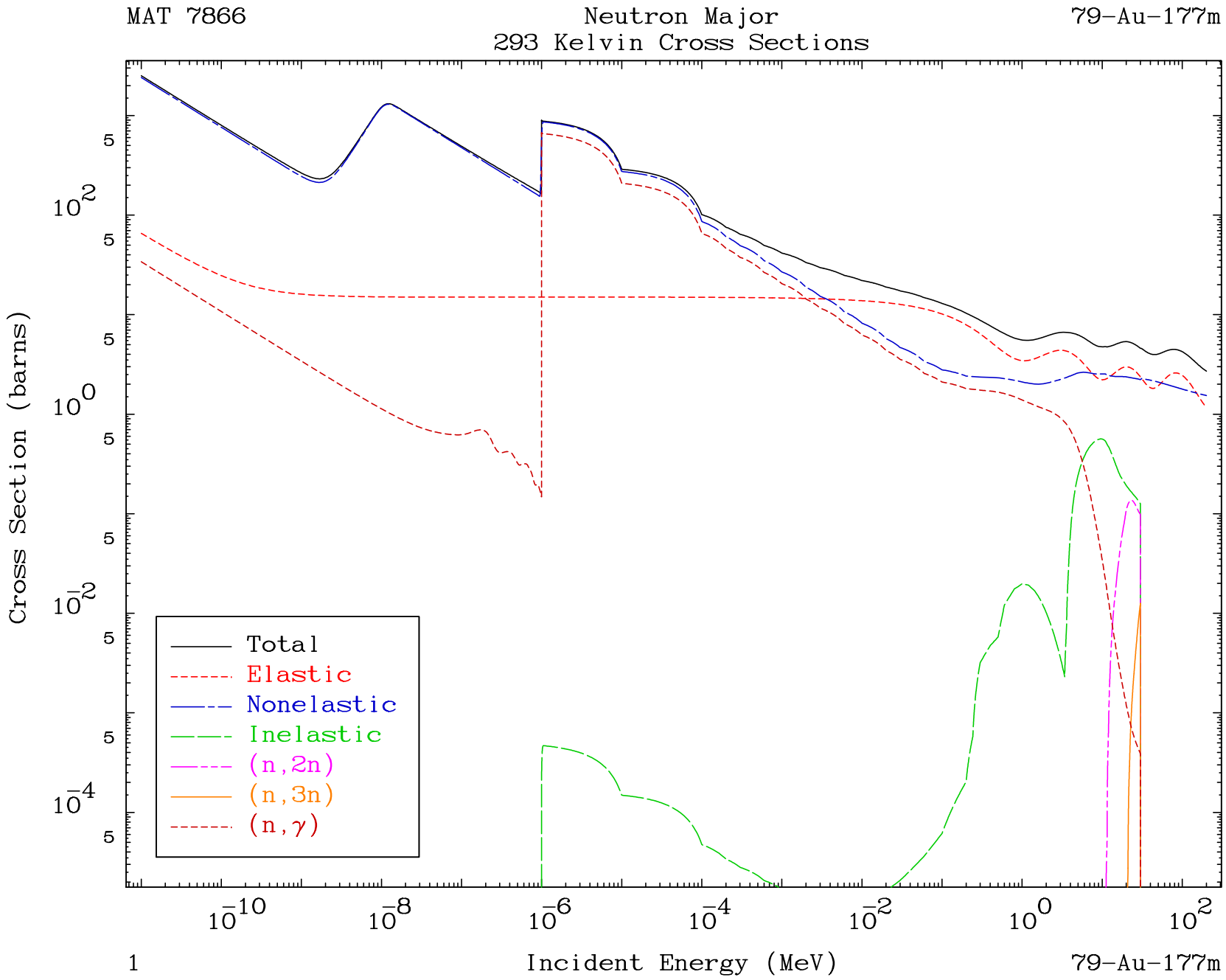
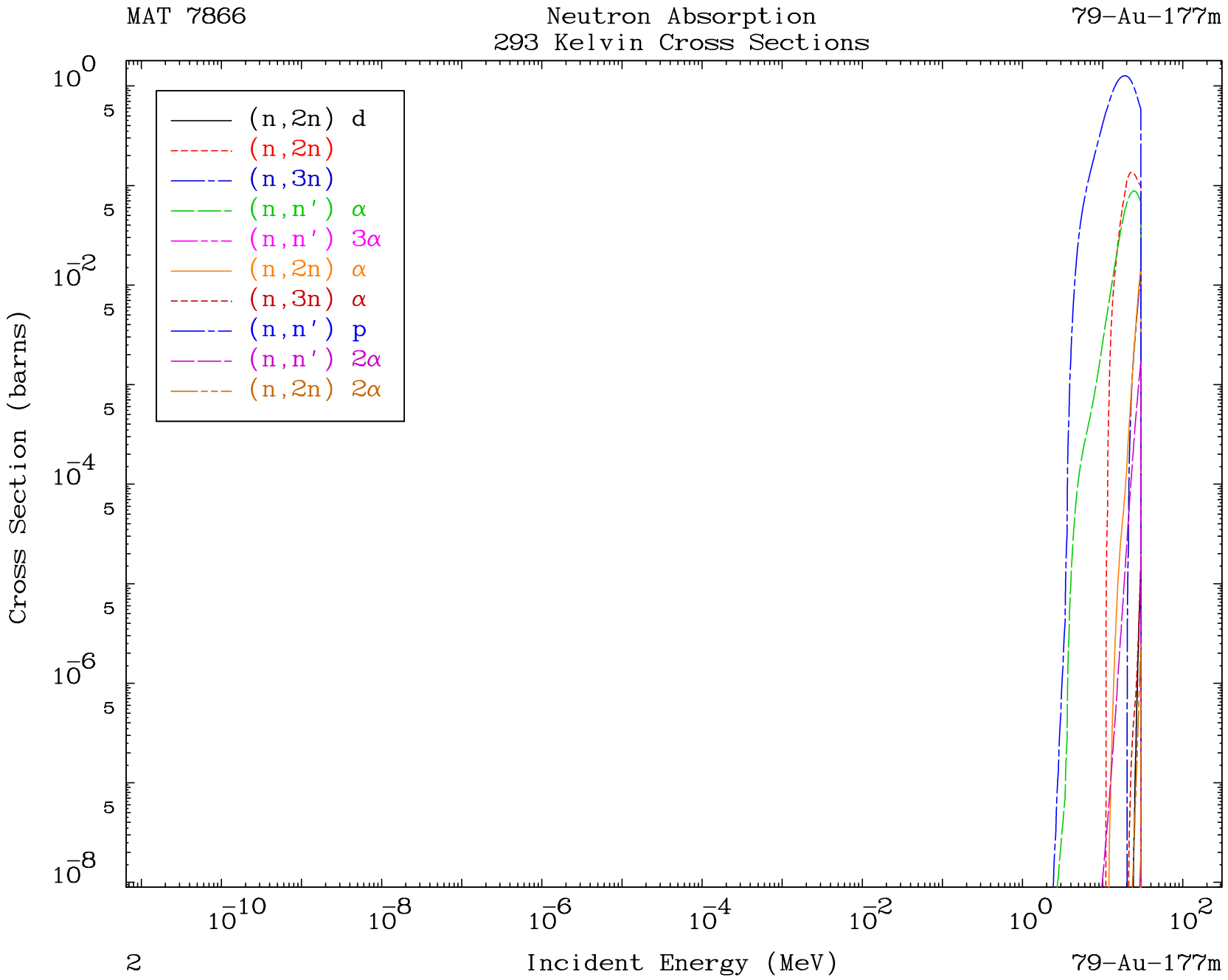
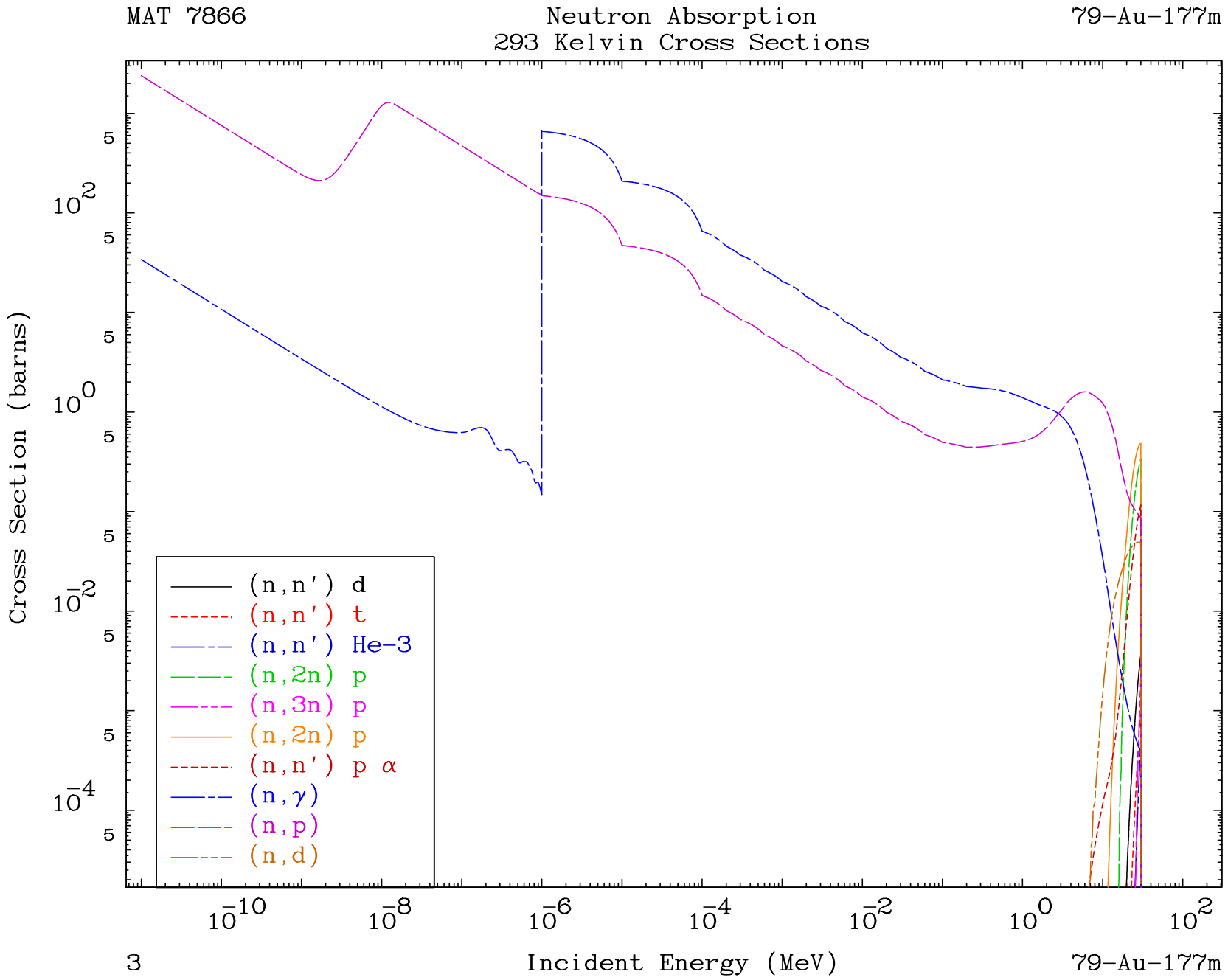
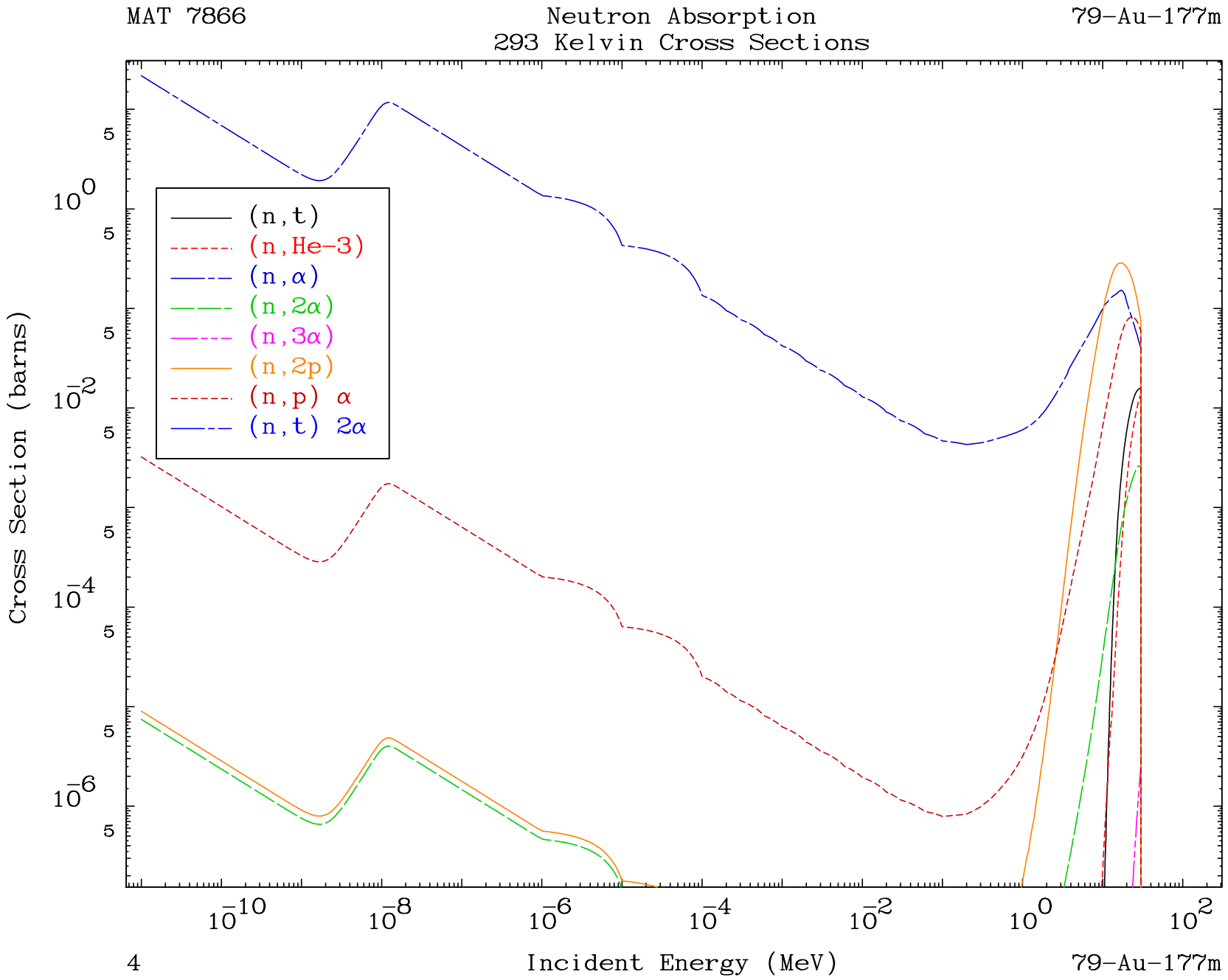
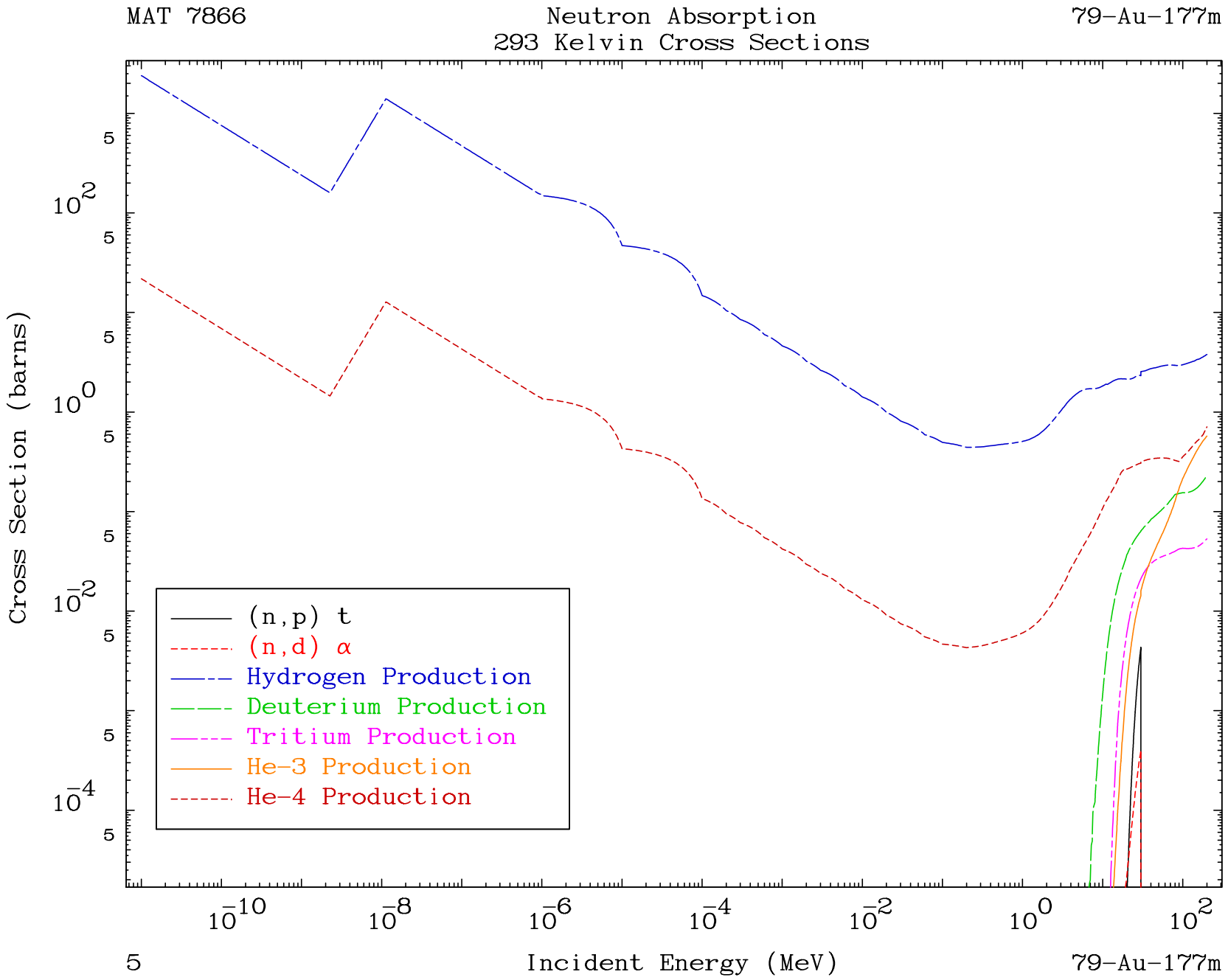
Press Mouse Button to Start

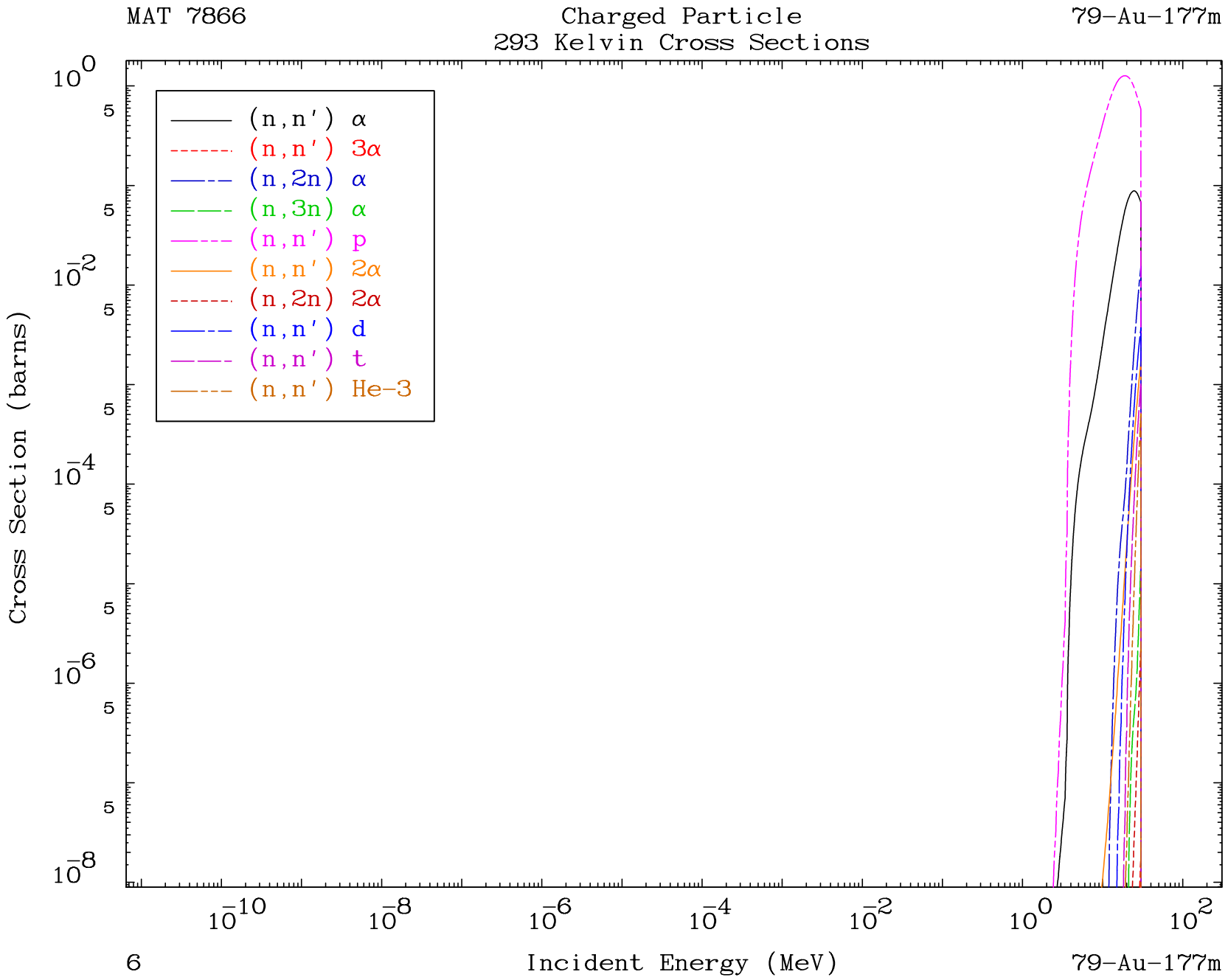

MAT 7866
Neutron Major
293 Kelvin Cross Sections
79-Au-177m
Cross Section (barns)
Incident Energy (MeV)
Total
Elastic
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)
1
79-Au-177m

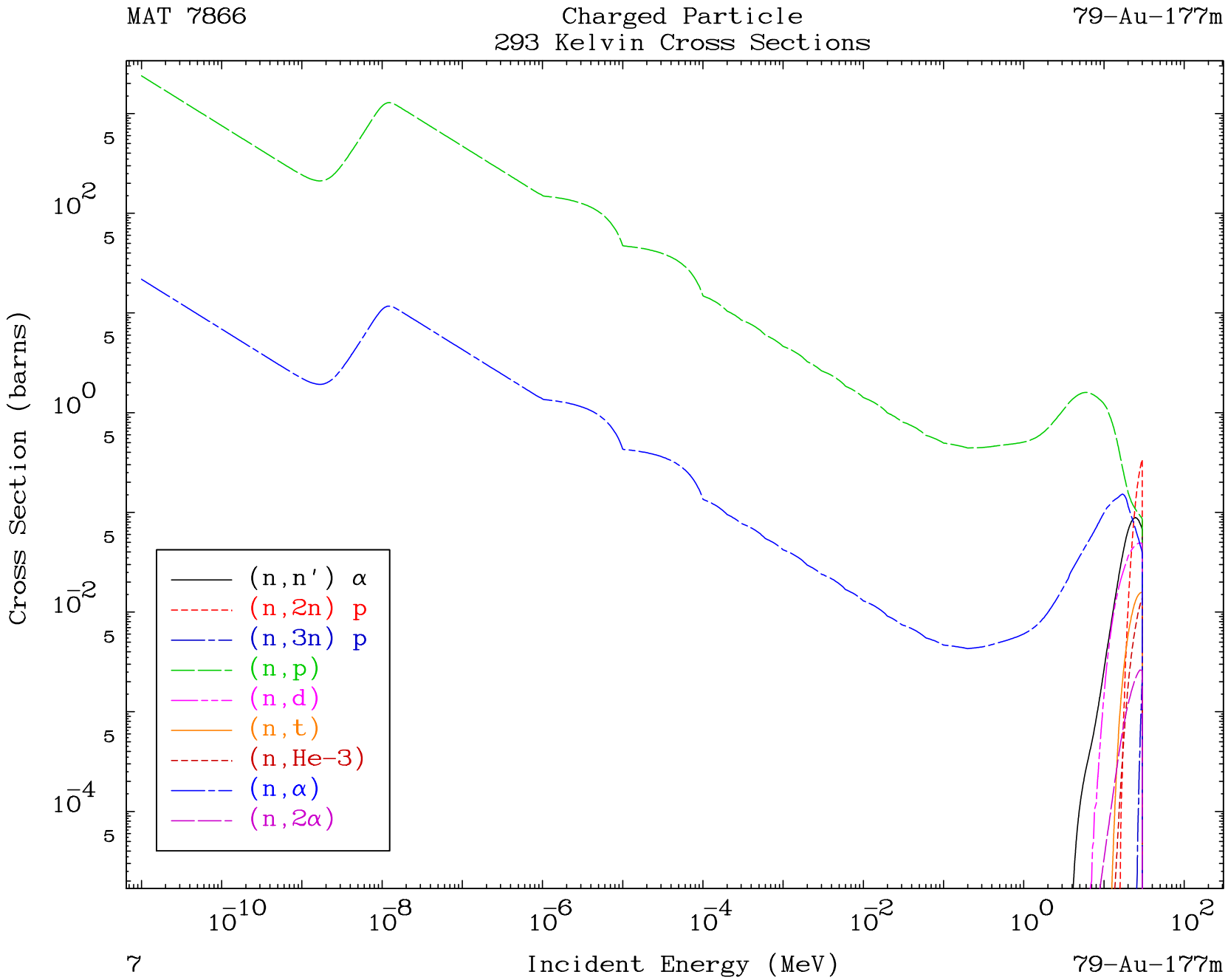

MAT 7866
Neutron Absorption
293 Kelvin Cross Sections
79-Au-177m
(n,2n) d
(n,2n)
(n,3n)
(n,n') α
(n,n') 3α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,2n) 2α
Cross Section (barns)
Incident Energy (MeV)
79-Au-177m
2

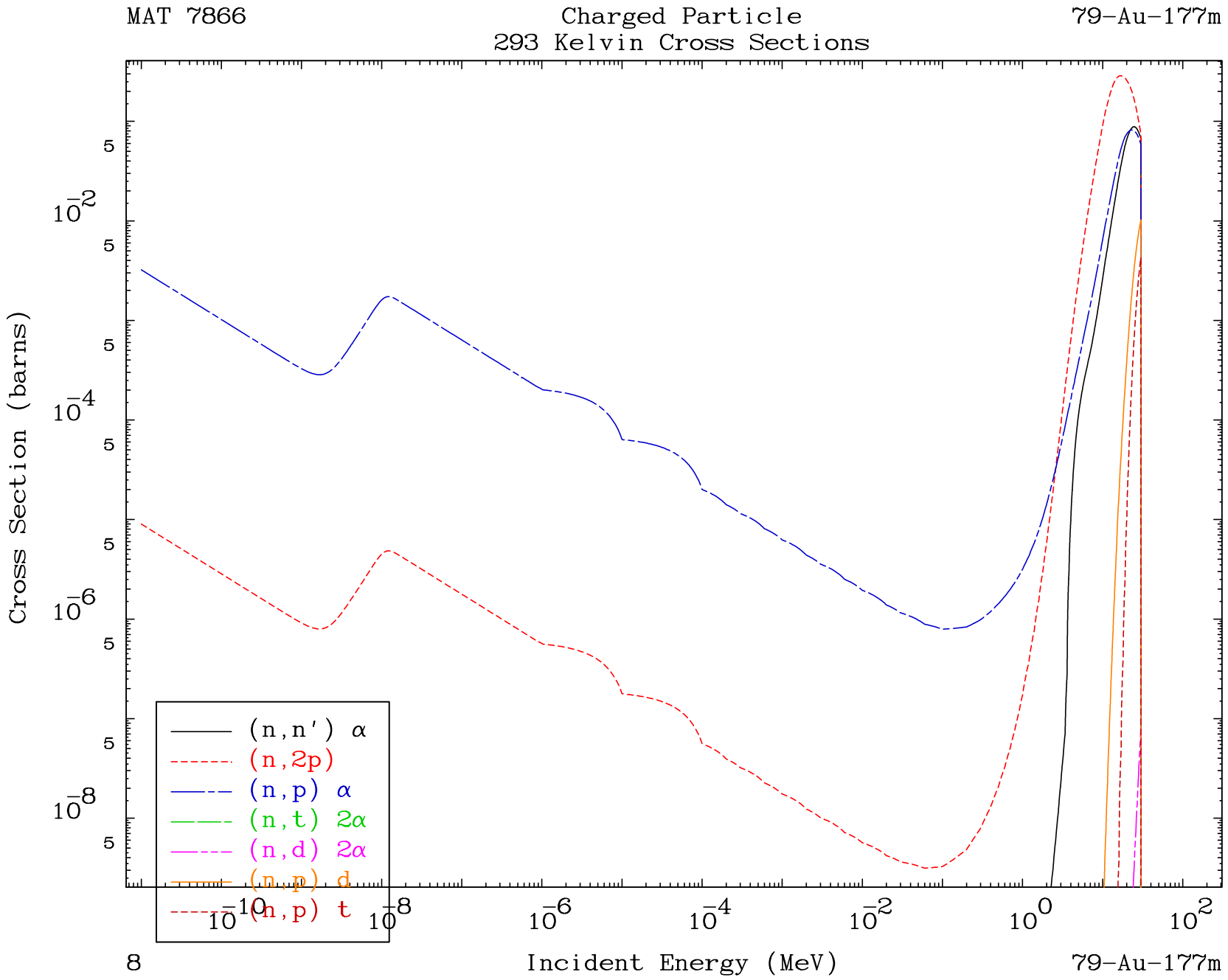

MAT 7866
Neutron Absorption
293 Kelvin Cross Sections
79-Au-177m
Cross Section (barns)
Incident Energy (MeV)
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
(n,3n) p
(n,2n) p
(n,n') p α
(n,γ)
(n,p)
(n,d)
3
79-Au-177m

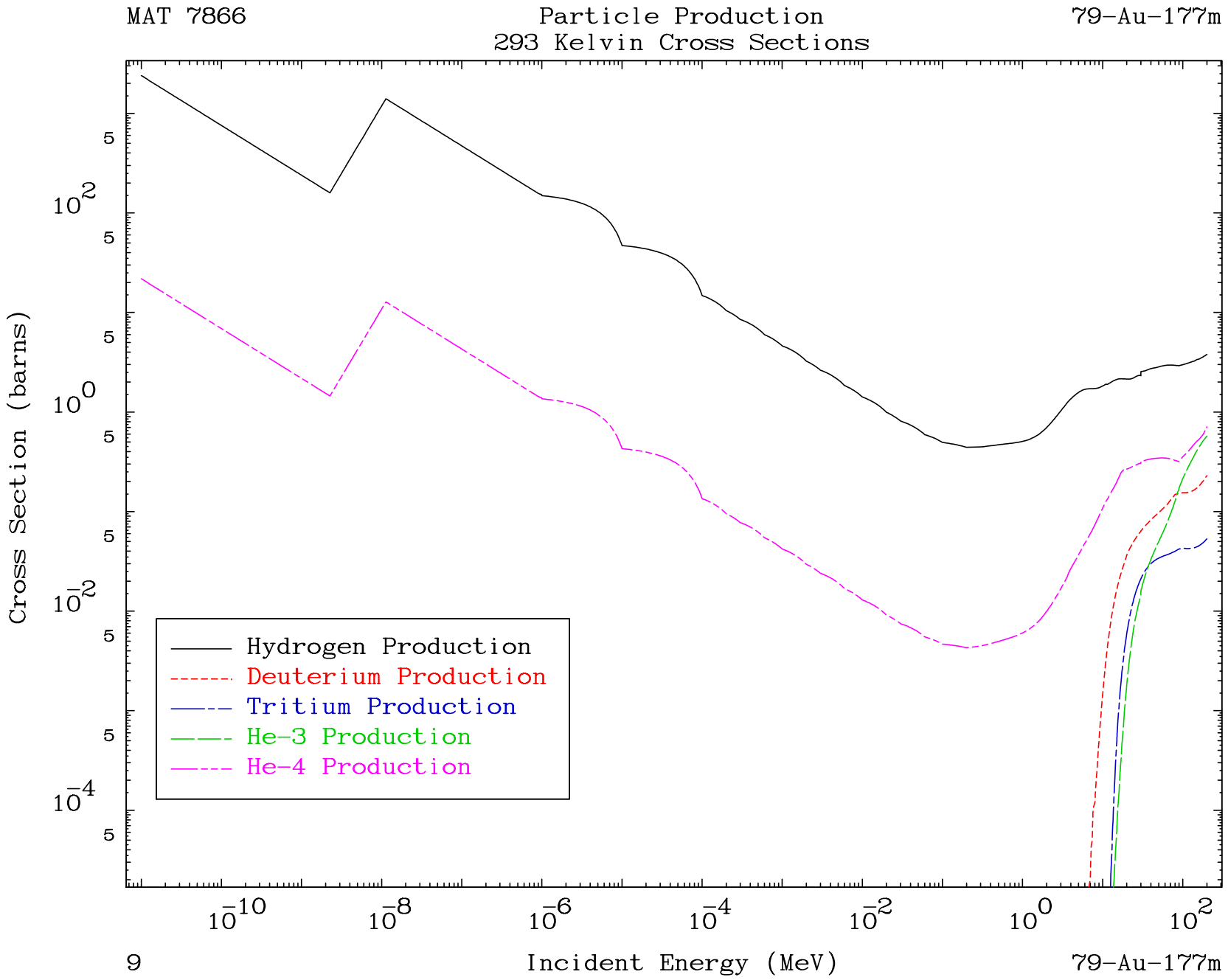

MAT 7866
Neutron Absorption
293 Kelvin Cross Sections
79-Au-177m
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,3α)
(n,2p)
(n,p) α
(n,t) 2α
Cross Section (barns)
Incident Energy (MeV)
4
79-Au-177m

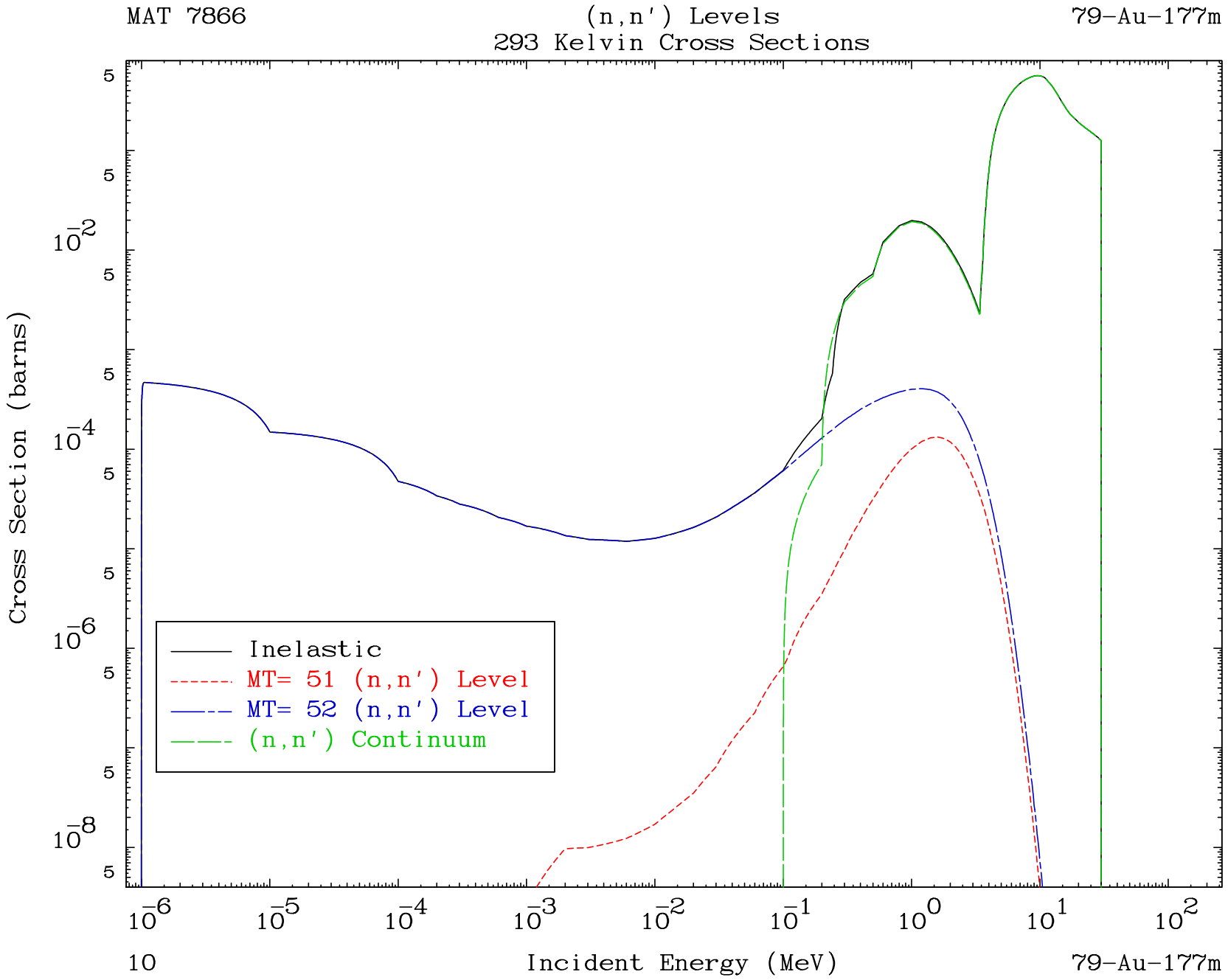

MAT 7866
Neutron Absorption
293 Kelvin Cross Sections
79-Au-177m
Cross Section (barns)
10^2
10^0
10^-2
10^-4
(n,p) t
(n,d) α
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
Incident Energy (MeV)
79-Au-177m

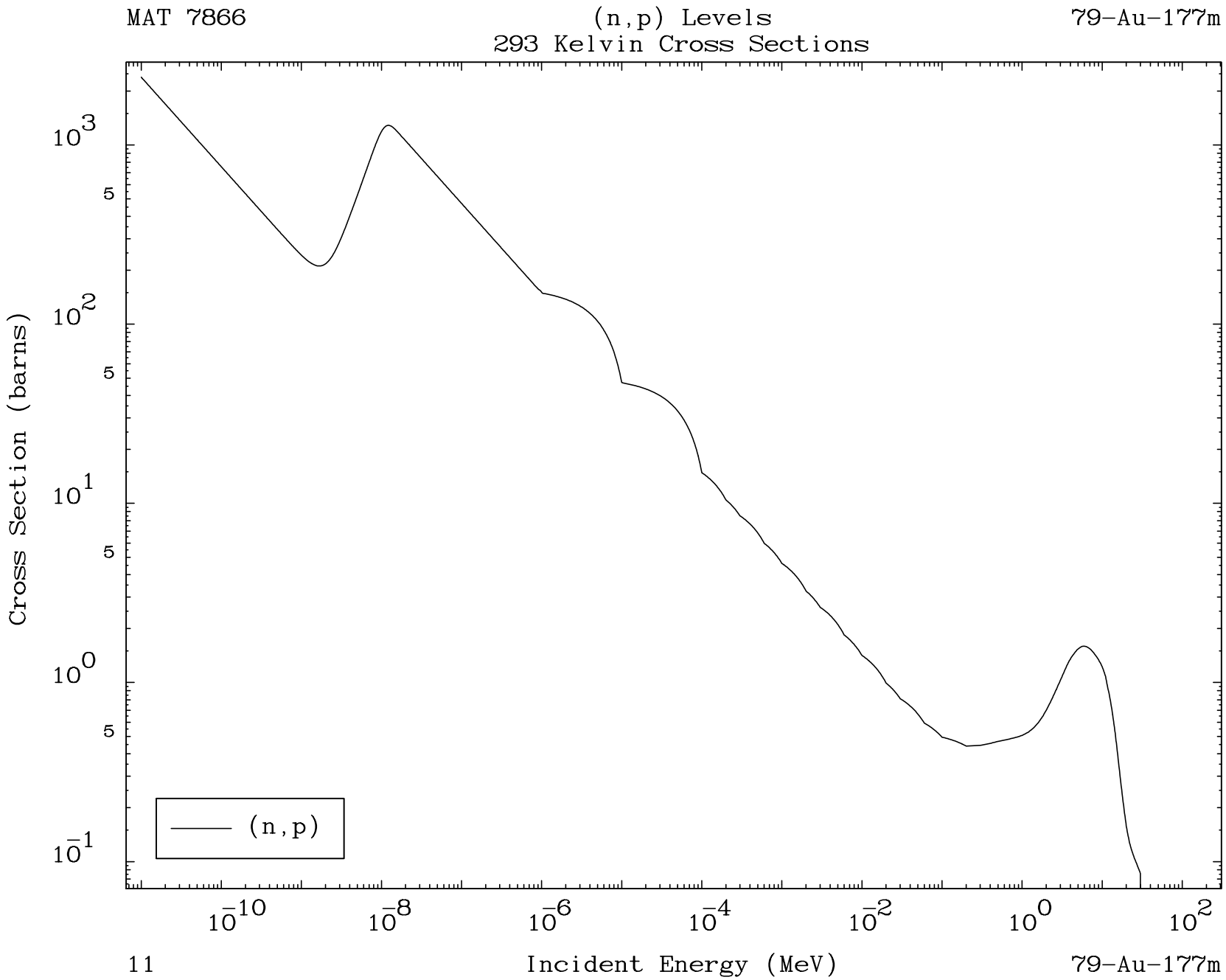

MAT 7866
Charged Particle
293 Kelvin Cross Sections
79-Au-177m
(n,n') α
(n,n') 3α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,2n) 2α
(n,n') d
(n,n') t
(n,n') He-3
Cross Section (barns)
Incident Energy (MeV)
79-Au-177m
6

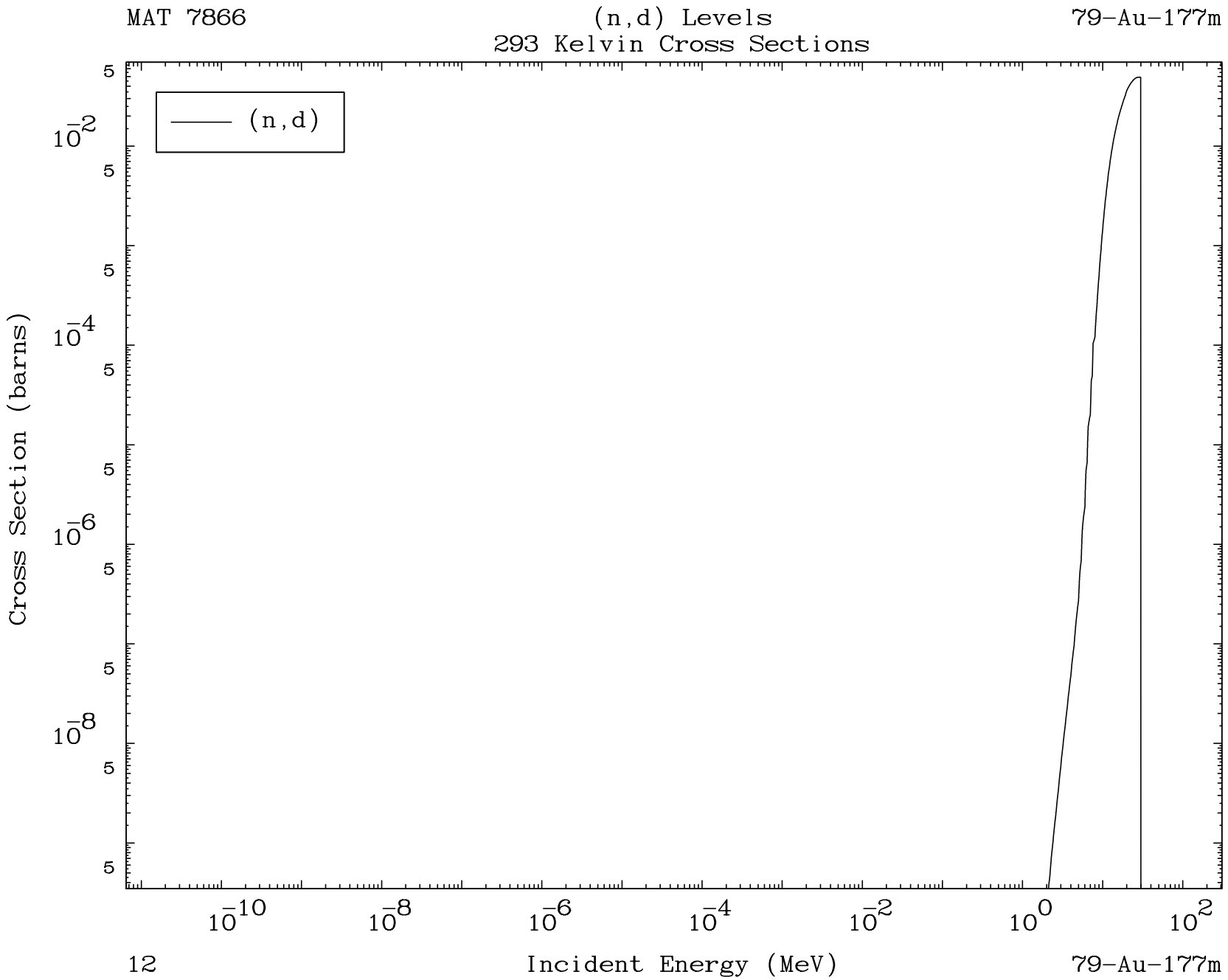

MAT 7866
Charged Particle
293 Kelvin Cross Sections
79-Au-177m
Cross Section (barns)
Incident Energy (MeV)
7
79-Au-177m
(n,n') α
(n,2n) p
(n,3n) p
(n,p)
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)

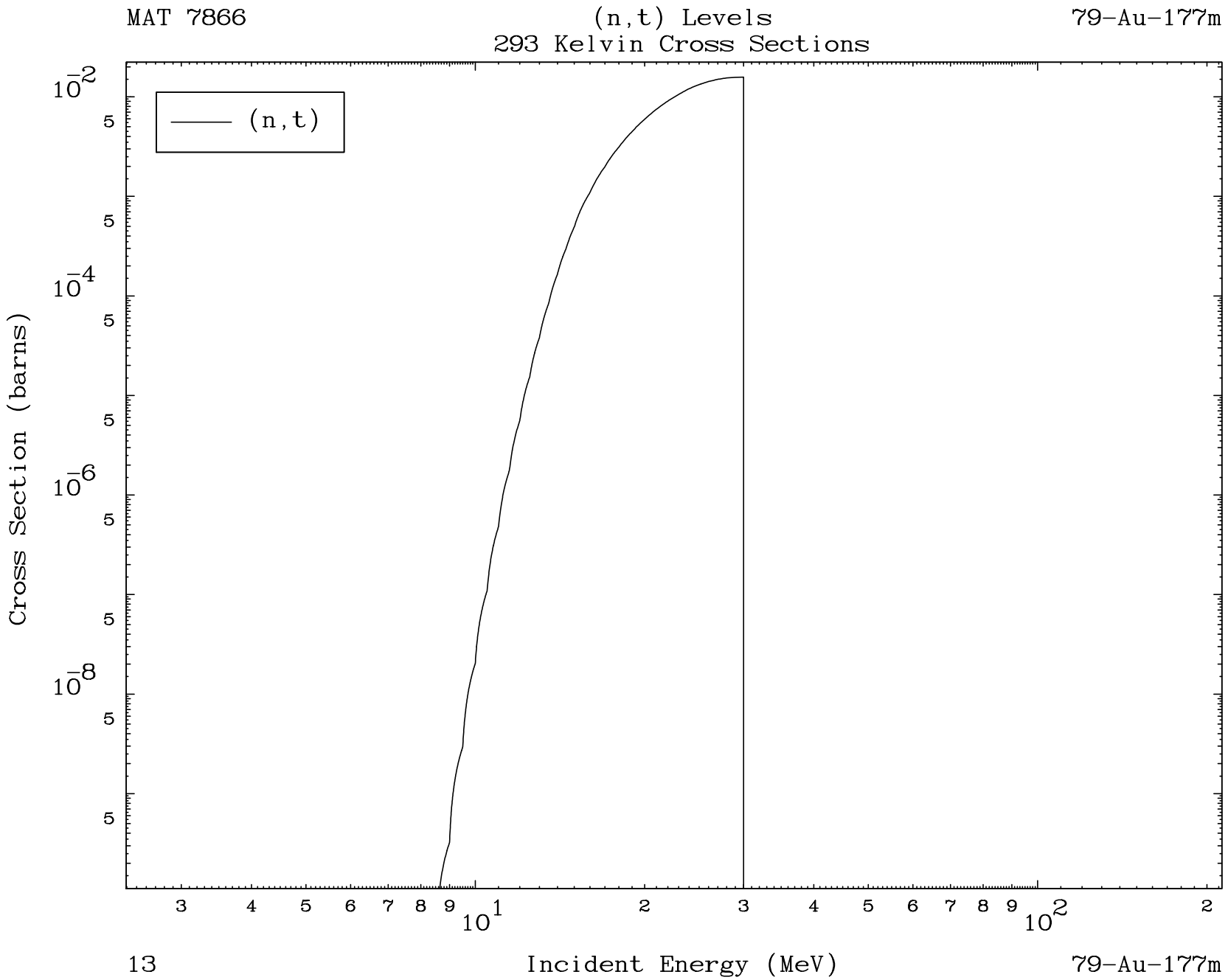

MAT 7866
Charged Particle
293 Kelvin Cross Sections
79-Au-177m
Cross Section (barns)
Incident Energy (MeV)
79-Au-177m
(n,n') α
(n,2p)
(n,p) α
(n,t) 2α
(n,d) 2α
(n,p) d
(n,p) t

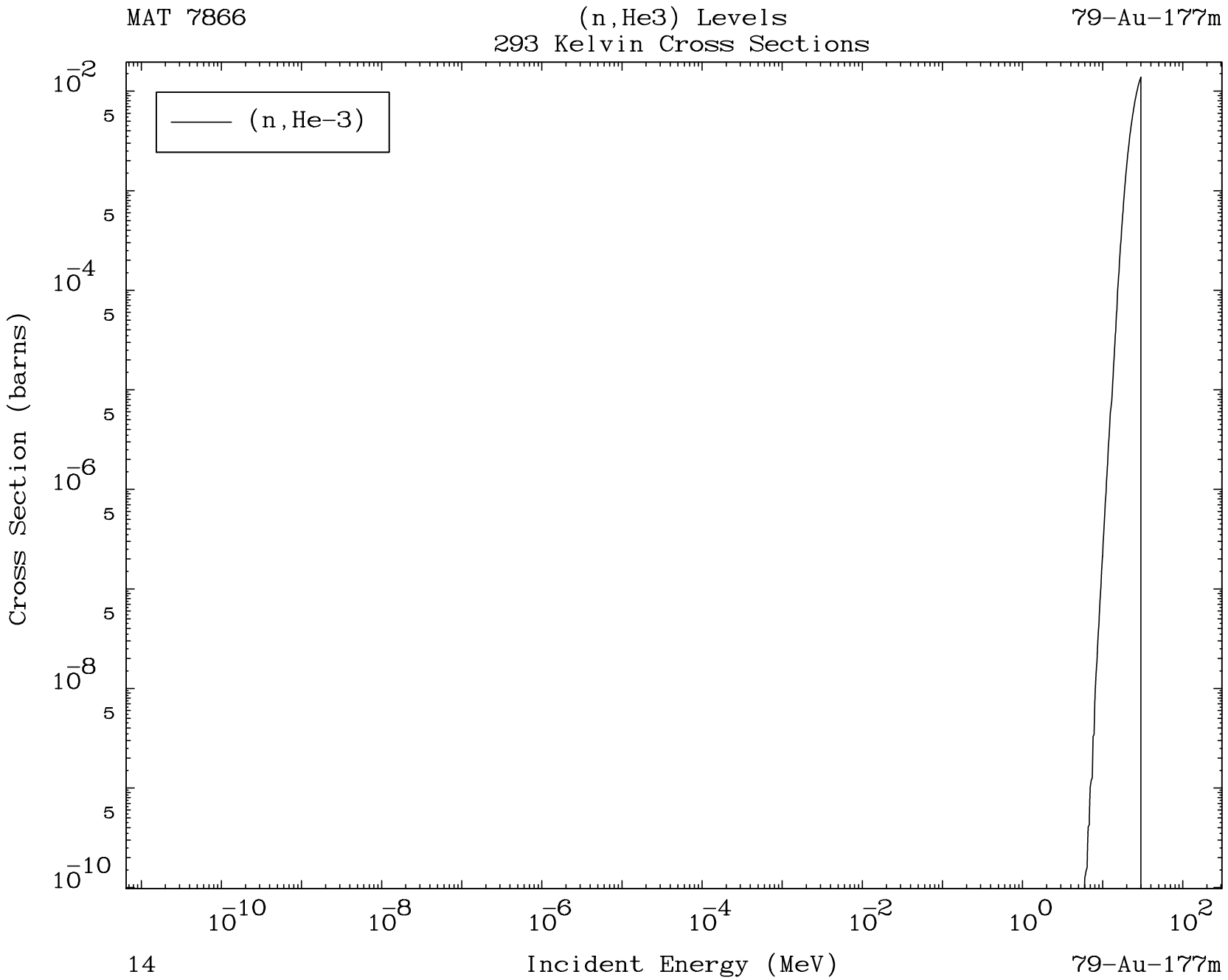

MAT 7866
Particle Production
293 Kelvin Cross Sections
79-Au-177m
Cross Section (barns)
Incident Energy (MeV)
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production
9
79-Au-177m

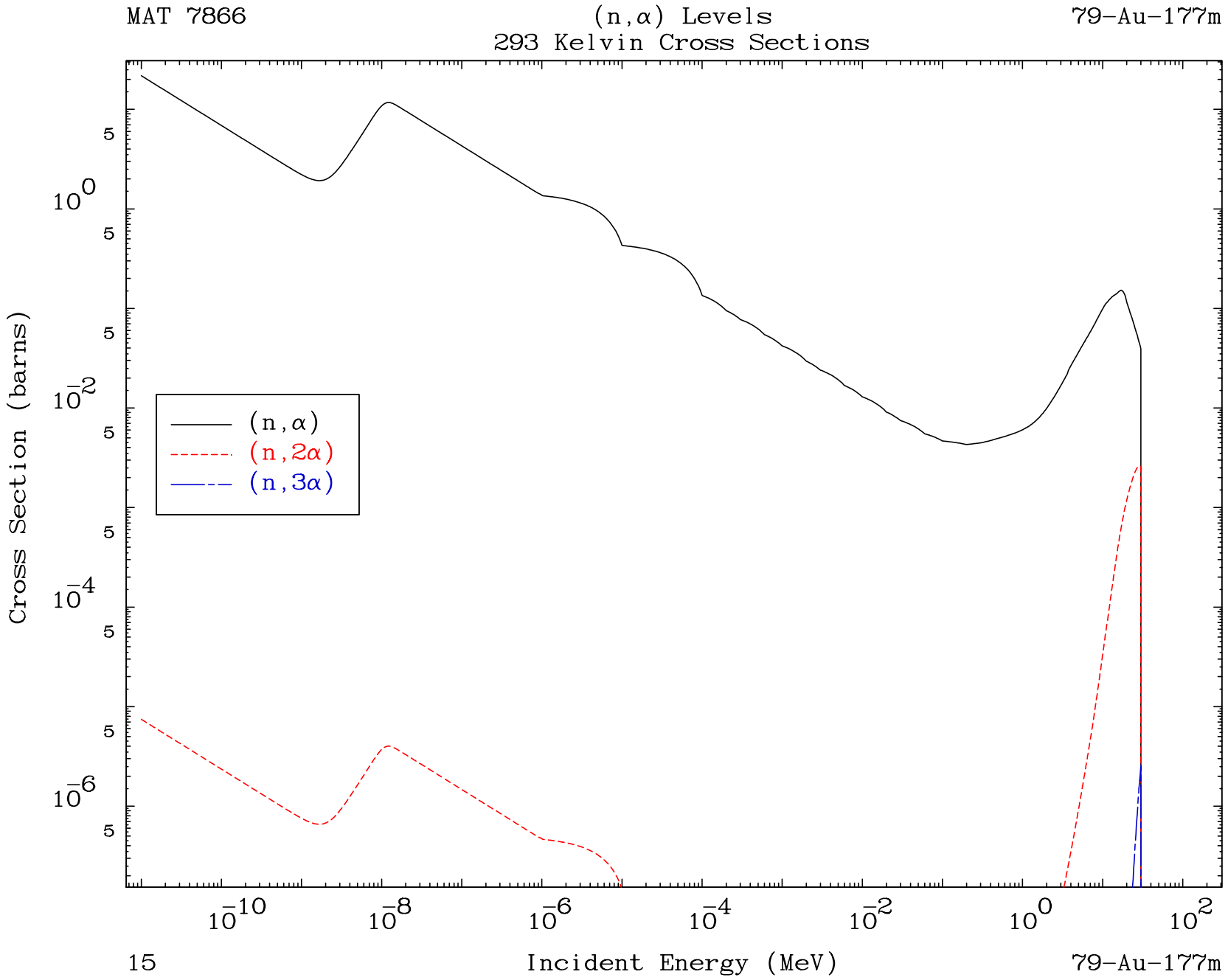

MAT 7866
(n,n') Levels
293 Kelvin Cross Sections
79-Au-177m
Cross Section (barns)
Incident Energy (MeV)
79-Au-177m
Inelastic
MT= 51 (n,n') Level
MT= 52 (n,n') Level
(n,n') Continuum

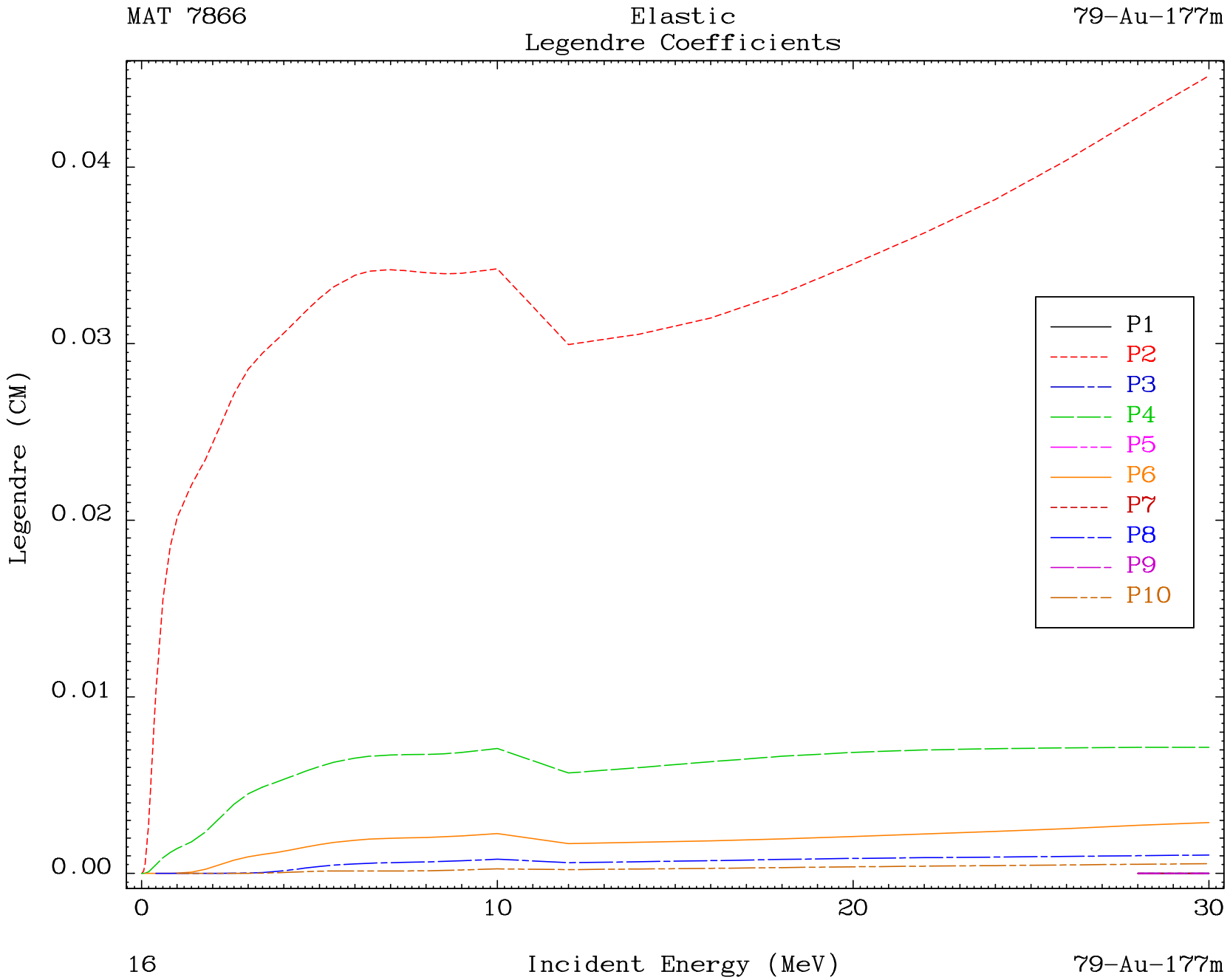

MAT 7866
(n,p) Levels
293 Kelvin Cross Sections
79-Au-177m
Cross Section (barns)
10^3
5
10^2
5
10^1
5
10^0
5
10^-1
(n,p)
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
11
Incident Energy (MeV)
79-Au-177m

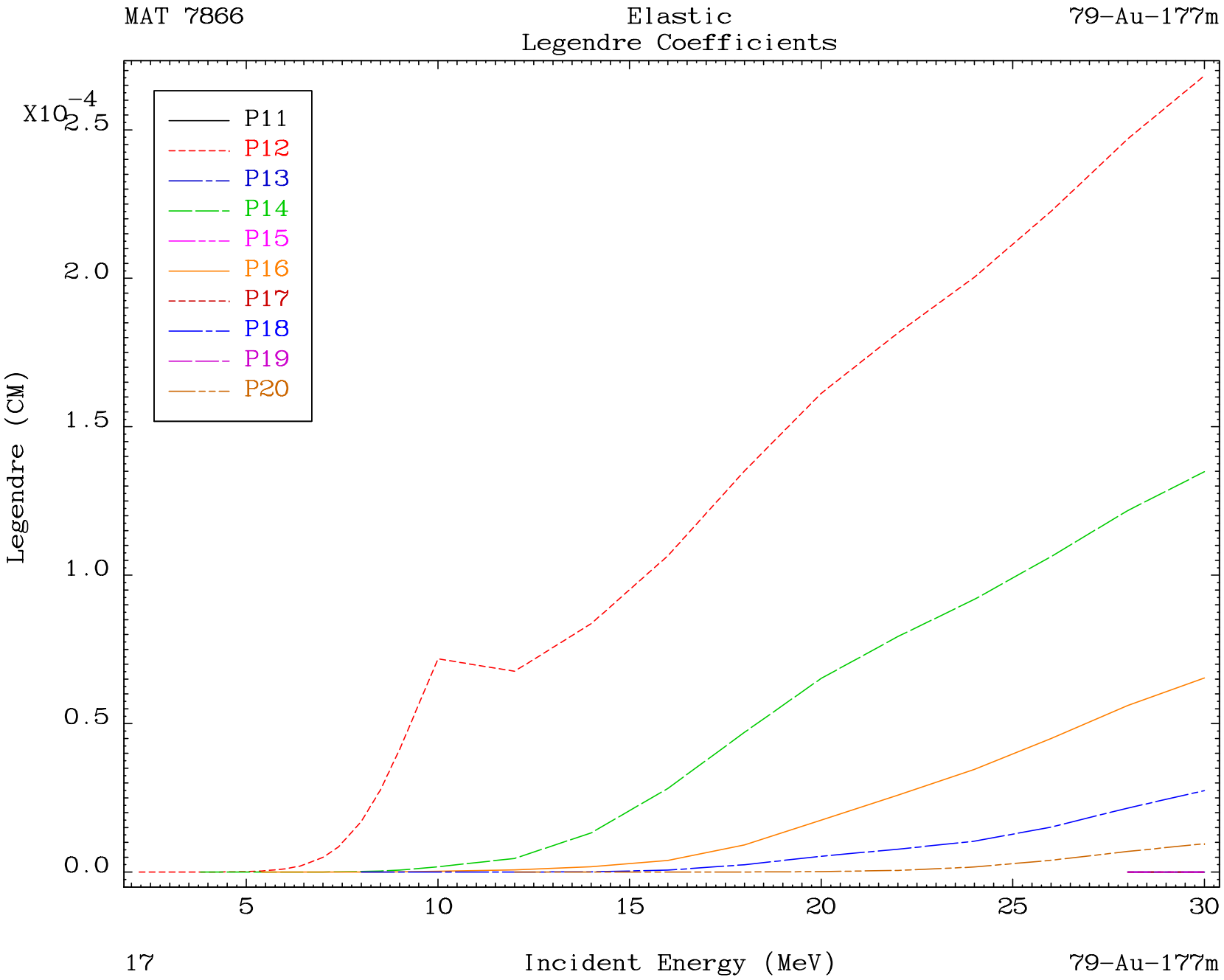

MAT 7866
(n,d) Levels
293 Kelvin Cross Sections
79-Au-177m
(n,d)
Cross Section (barns)
Incident Energy (MeV)
12
79-Au-177m

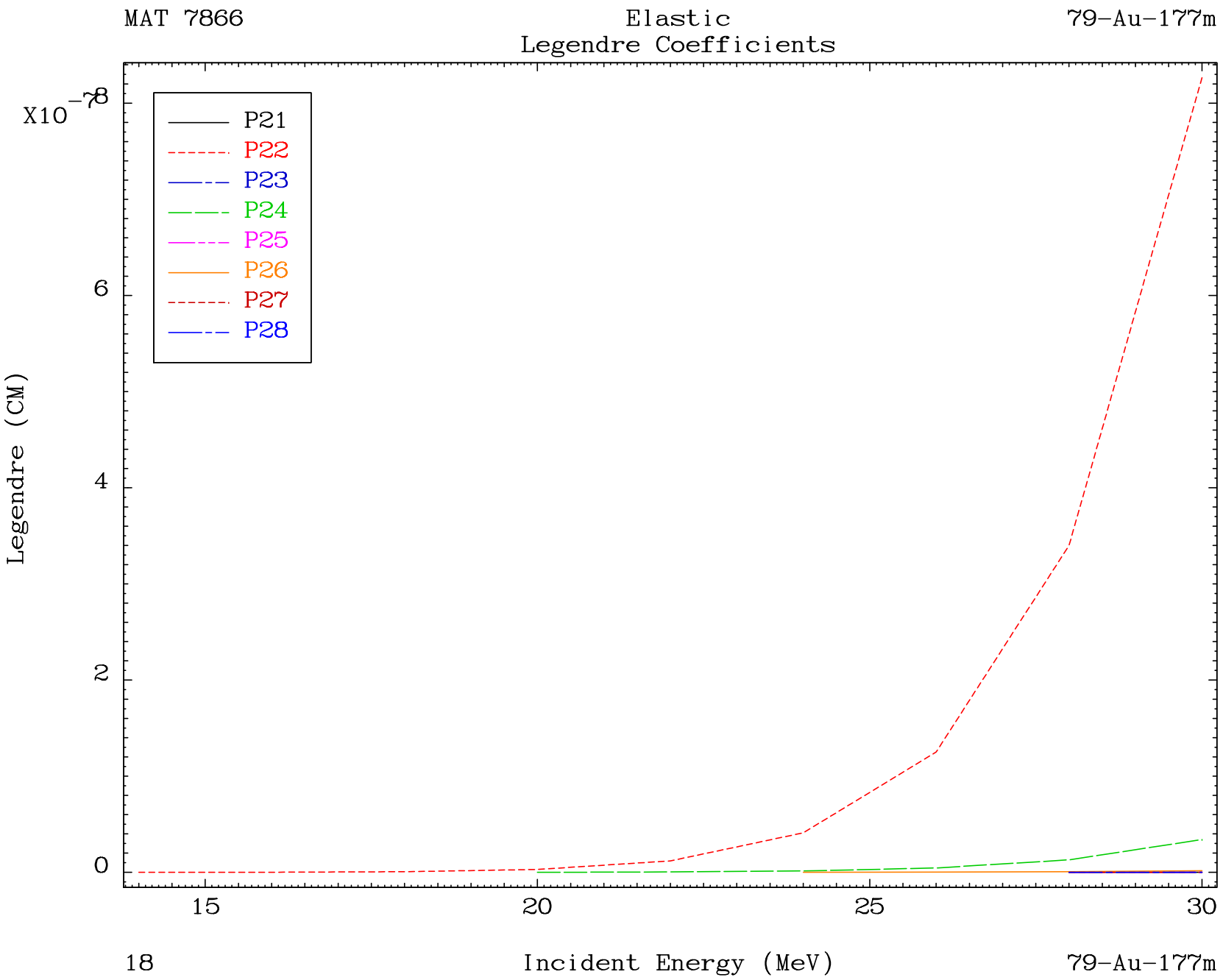

MAT 7866
(n,t) Levels
293 Kelvin Cross Sections
79-Au-177m
(n,t)
Cross Section (barns)
Incident Energy (MeV)
13
79-Au-177m

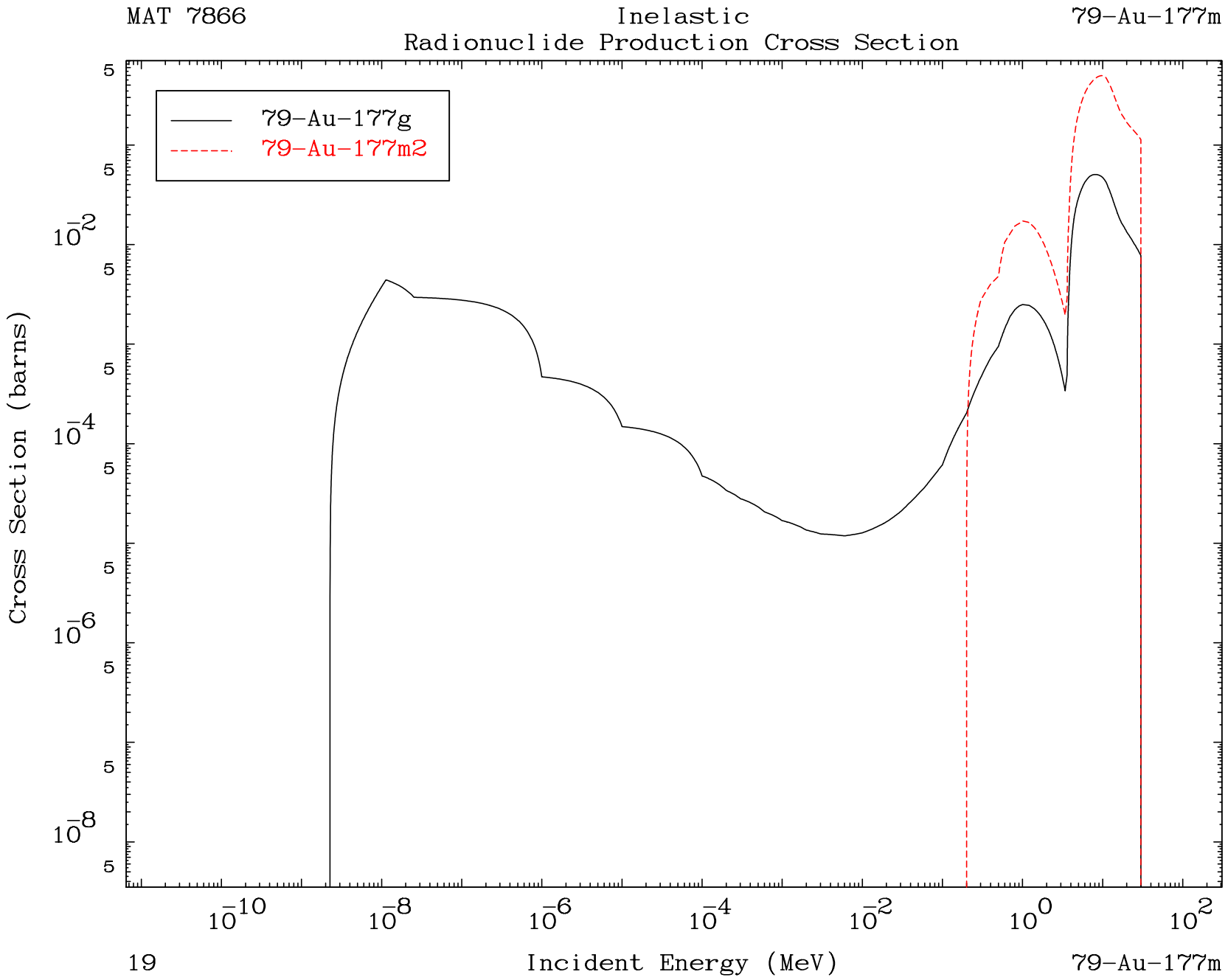

MAT 7866
(n,He3) Levels
293 Kelvin Cross Sections
79-Au-177m
(n,He-3)
Cross Section (barns)
Incident Energy (MeV)
14
79-Au-177m

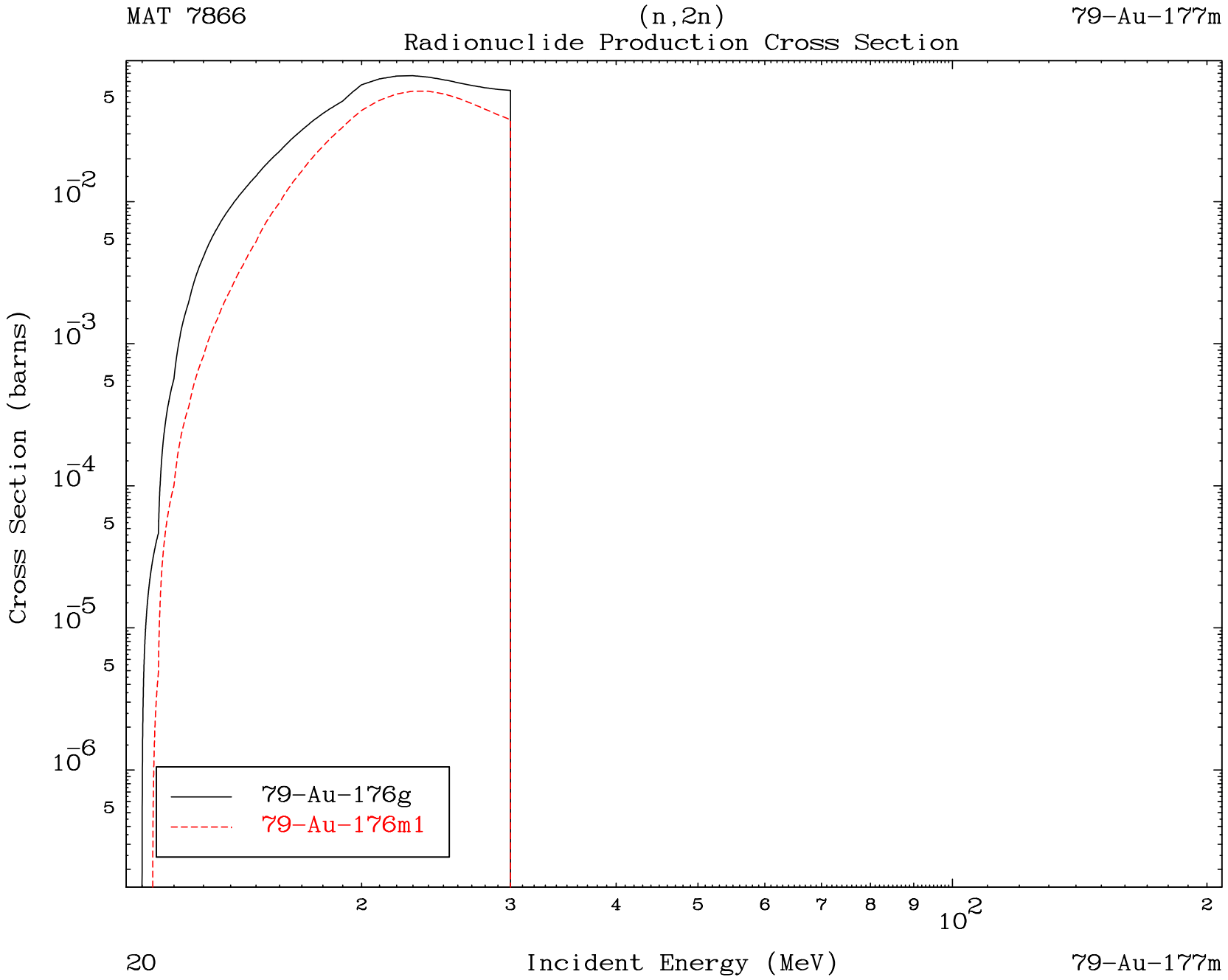

MAT 7866
(n,α) Levels
293 Kelvin Cross Sections
79-Au-177m
Cross Section (barns)
10^0
10^-2
10^-4
10^-6
(n,α)
(n,2α)
(n,3α)
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
Incident Energy (MeV)
15
79-Au-177m

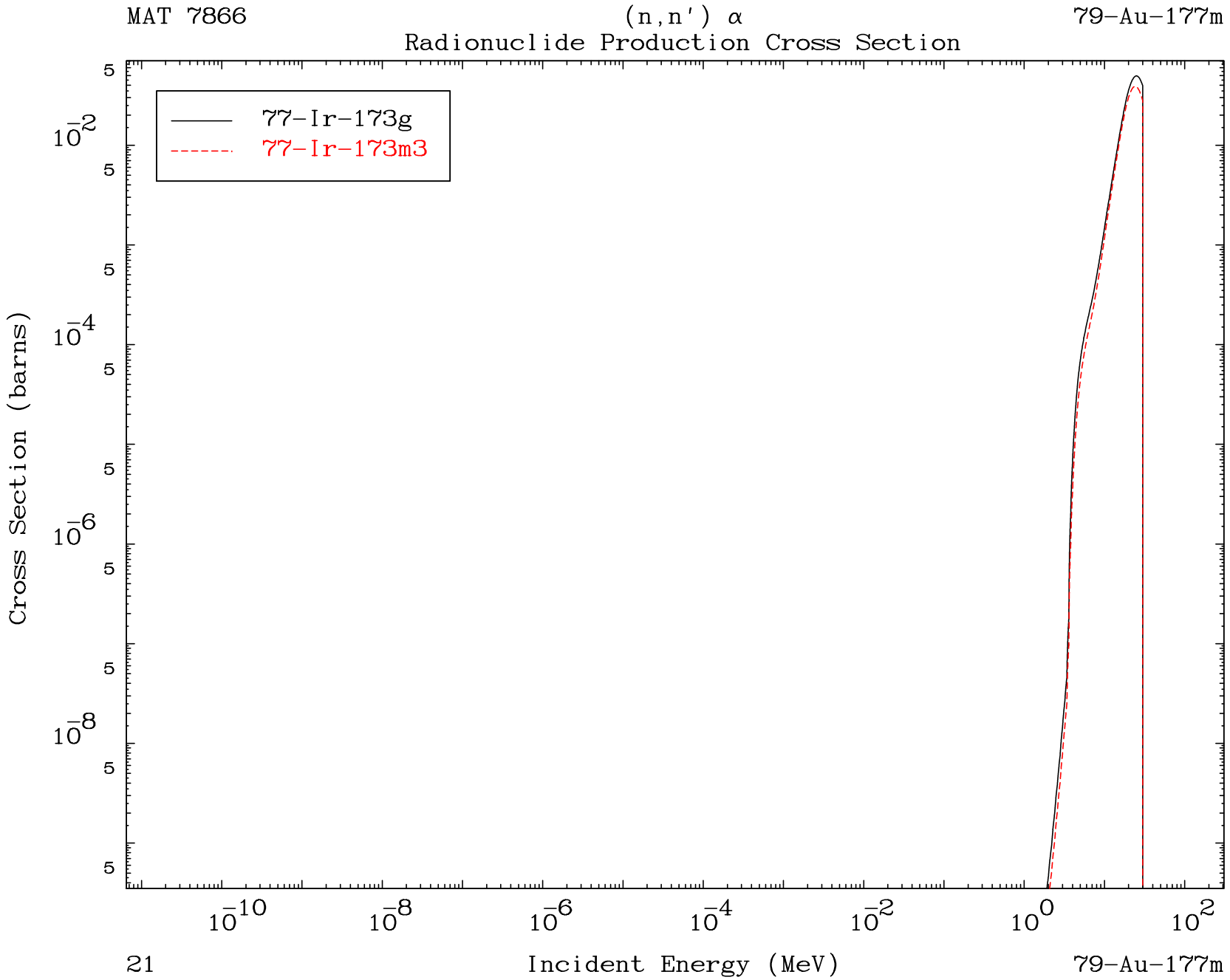

MAT 7866
Elastic
Legendre Coefficients
79-Au-177m
0.04
0.03
0.02
0.01
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
0
10
20
30
16
Incident Energy (MeV)
79-Au-177m

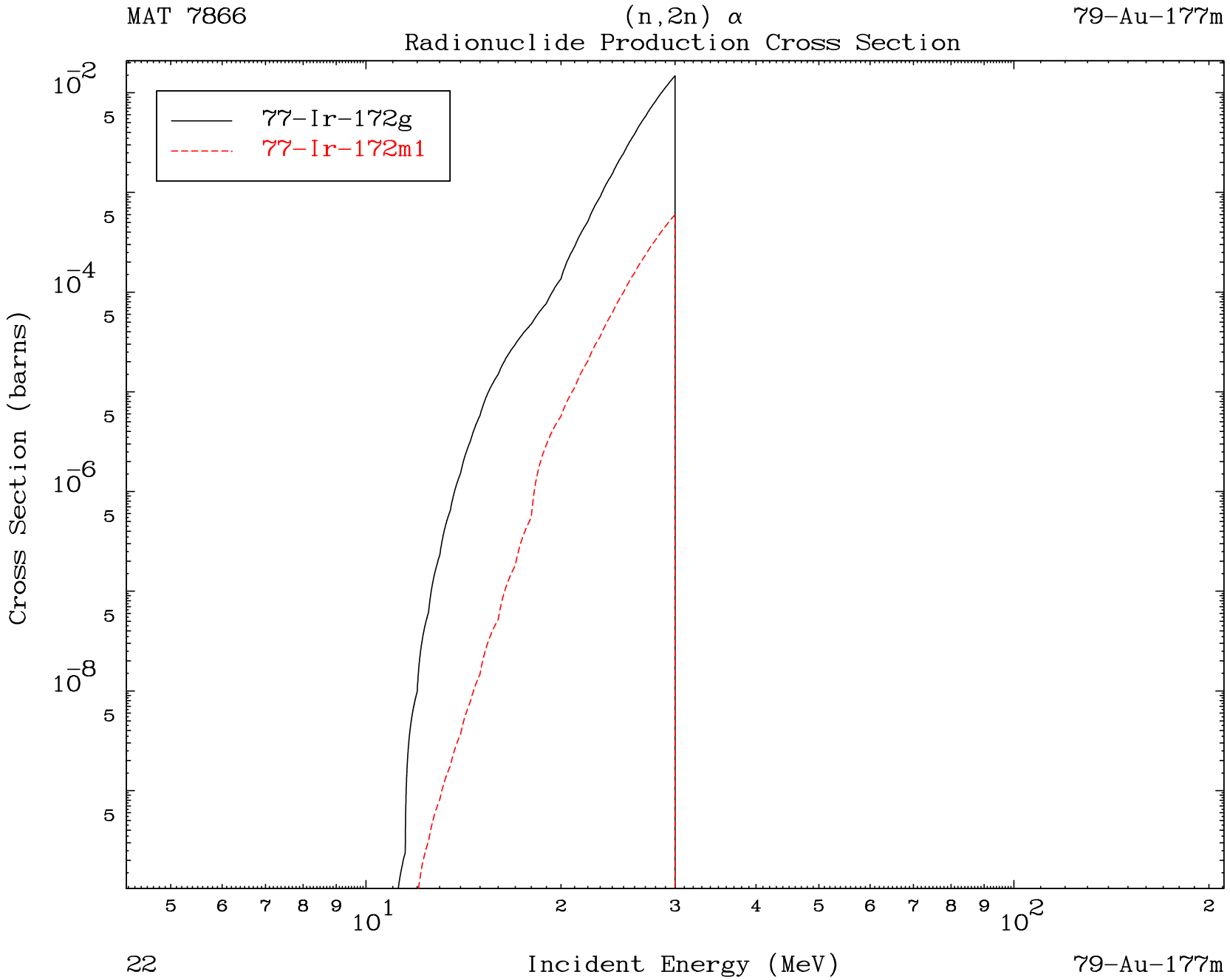

MAT 7866
Elastic
Legendre Coefficients
79-Au-177m
X10-4
2.5
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
5
10
15
20
25
30
17
Incident Energy (MeV)
79-Au-177m

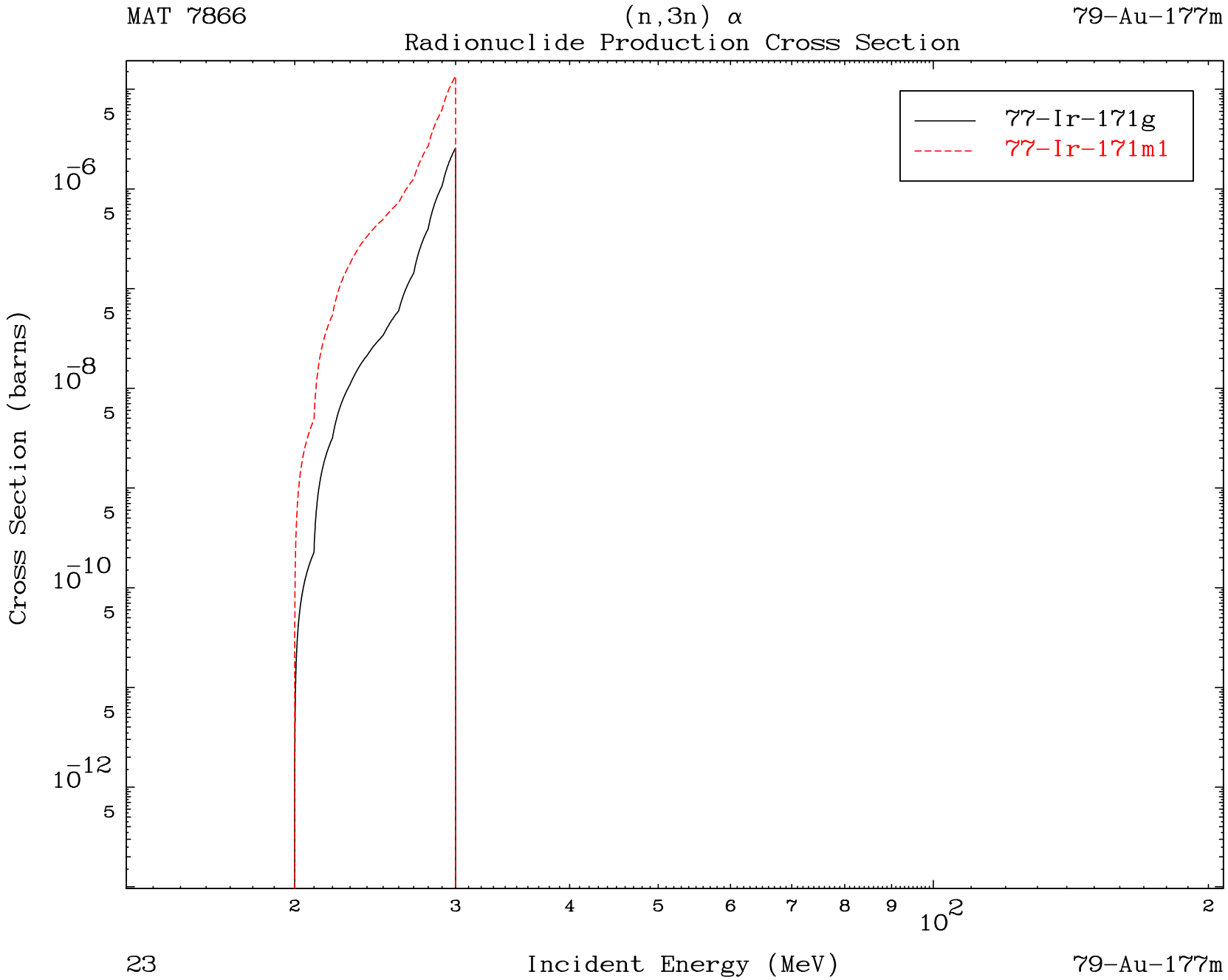

MAT 7866
Elastic
Legendre Coefficients
79-Au-177m
X10^-8
P21
P22
P23
P24
P25
P26
P27
P28
Legendre (CM)
0
2
4
6
8
15
20
25
30
18
Incident Energy (MeV)
79-Au-177m

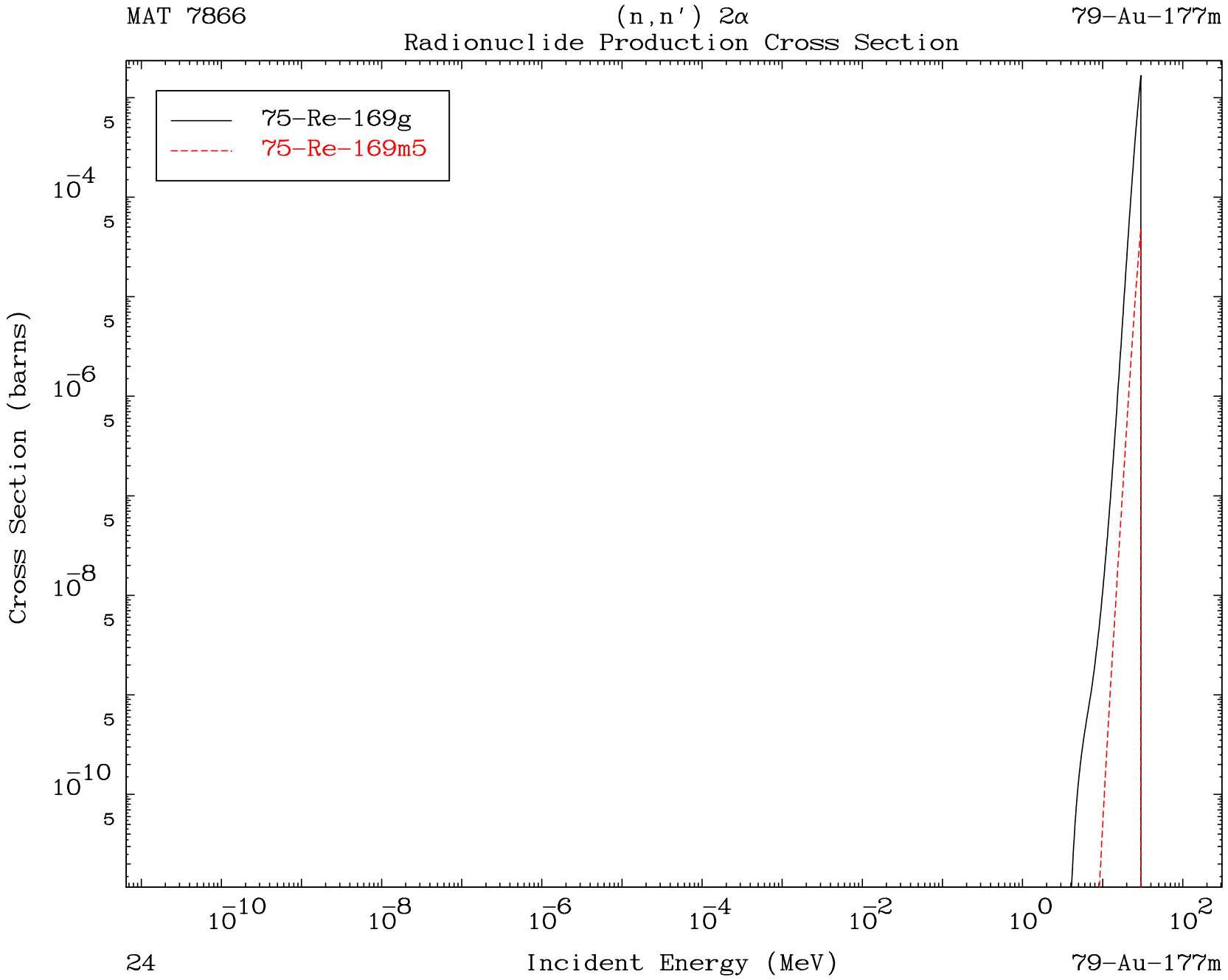

MAT 7866
Inelastic
79-Au-177m
Radionuclide Production Cross Section
79-Au-177g
79-Au-177m2
Cross Section (barns)
Incident Energy (MeV)
19
79-Au-177m

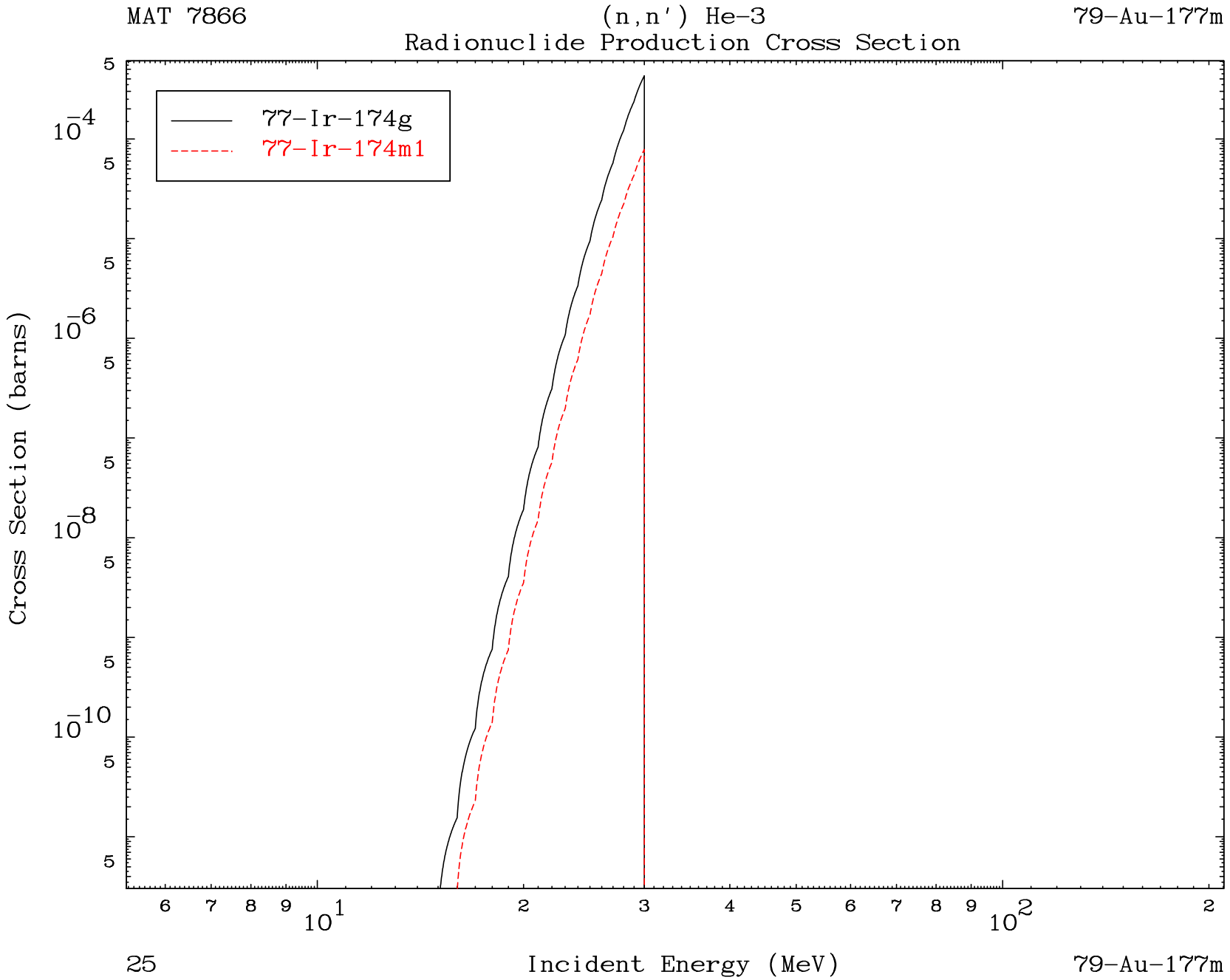

MAT 7866
(n,2n)
79-Au-177m
Radionuclide Production Cross Section
Cross Section (barns)
10-2
10-3
10-4
10-5
10-6
79-Au-176g
79-Au-176m1
2
3
4
5
6
7
8
9
10 2
2
20
Incident Energy (MeV)
79-Au-177m

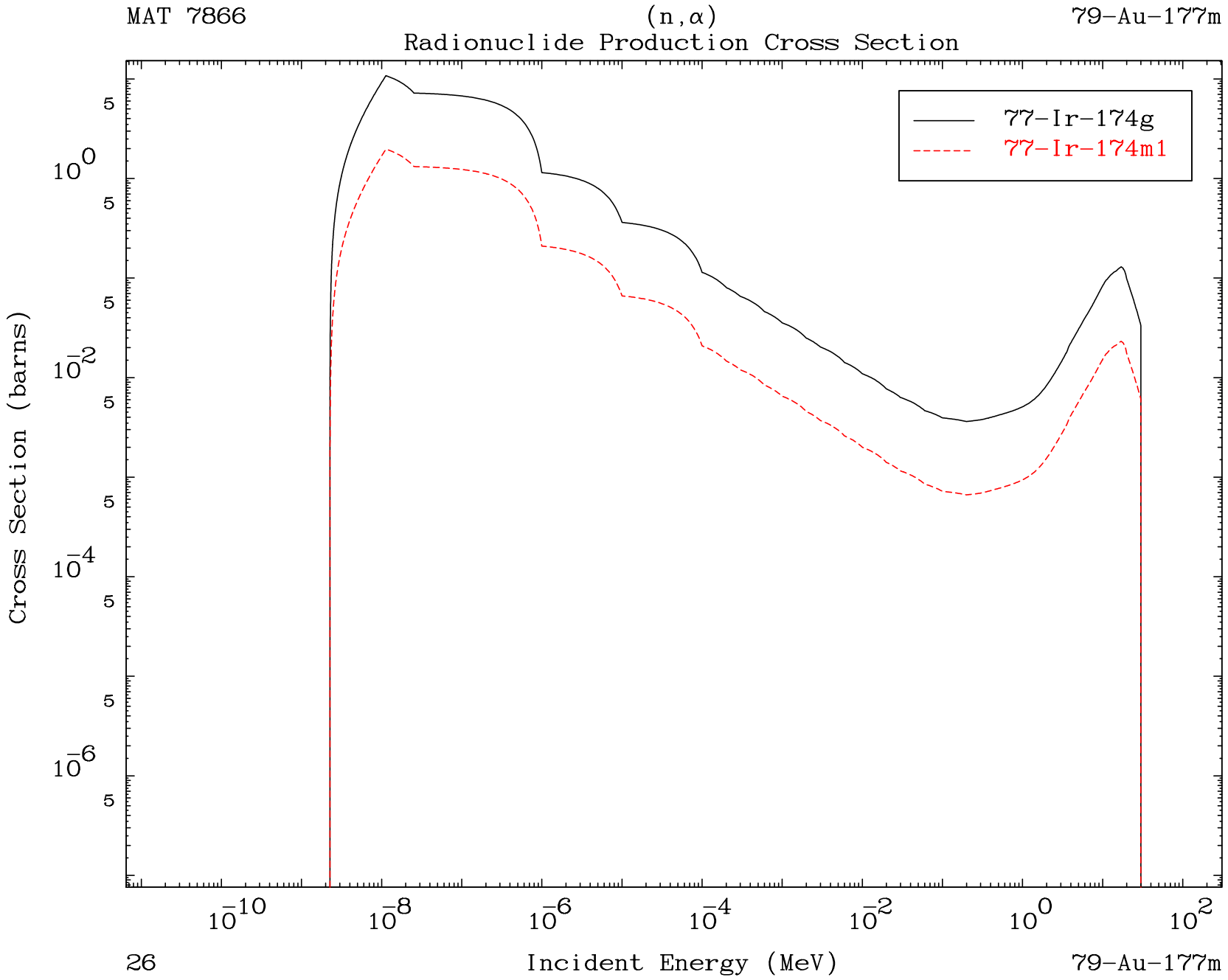

MAT 7866
(n,n') α
79-Au-177m
Radionuclide Production Cross Section
77-Ir-173g
77-Ir-173m3
Cross Section (barns)
Incident Energy (MeV)
21
79-Au-177m

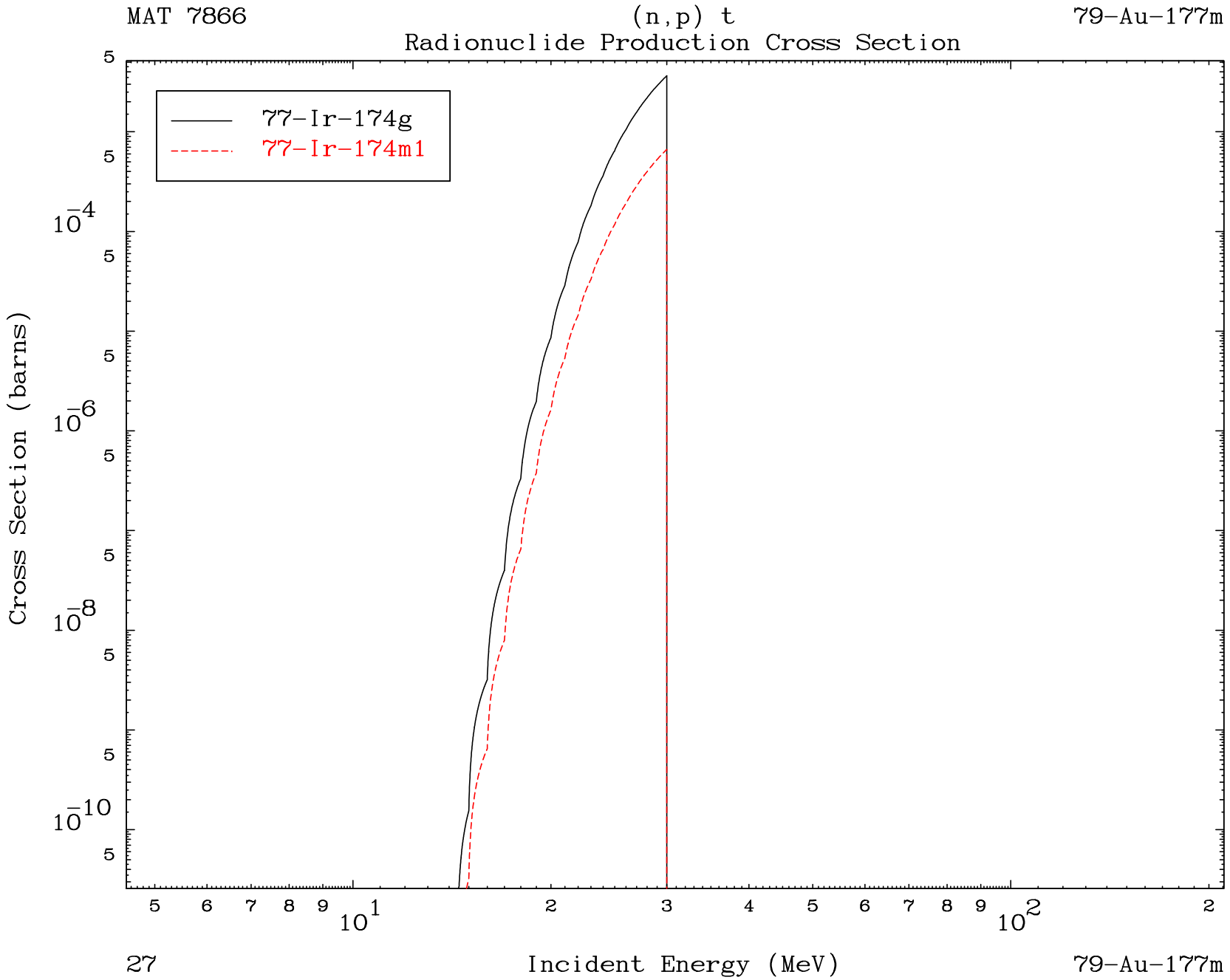

MAT 7866
(n,2n) α
79-Au-177m
Radionuclide Production Cross Section
77-Ir-172g
77-Ir-172m1
Cross Section (barns)
Incident Energy (MeV)
22
79-Au-177m


MAT 7866
(n,3n) α
79-Au-177m
Radionuclide Production Cross Section
77-Ir-171g
77-Ir-171m1
Cross Section (barns)
10-6
10-8
10-10
10-12
5
2
3
4
5
6
7
8
9
10 2
2
23
Incident Energy (MeV)
79-Au-177m


MAT 7866
(n,n') 2α
79-Au-177m
Radionuclide Production Cross Section
75-Re-169g
75-Re-169m5
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
Incident Energy (MeV)
24
79-Au-177m


MAT 7866
(n,n') He-3
79-Au-177m
Radionuclide Production Cross Section
77-Ir-174g
77-Ir-174m1
Cross Section (barns)
10-4
10-6
10-8
10-10
10^1
10^2
Incident Energy (MeV)
25
79-Au-177m


MAT 7866
(n,α)
79-Au-177m
Radionuclide Production Cross Section
77-Ir-174g
77-Ir-174m1
Cross Section (barns)
Incident Energy (MeV)
26
79-Au-177m


MAT 7866
(n,p) t
79-Au-177m
Radionuclide Production Cross Section
77-Ir-174g
77-Ir-174m1
Cross Section (barns)
Incident Energy (MeV)
27
79-Au-177m