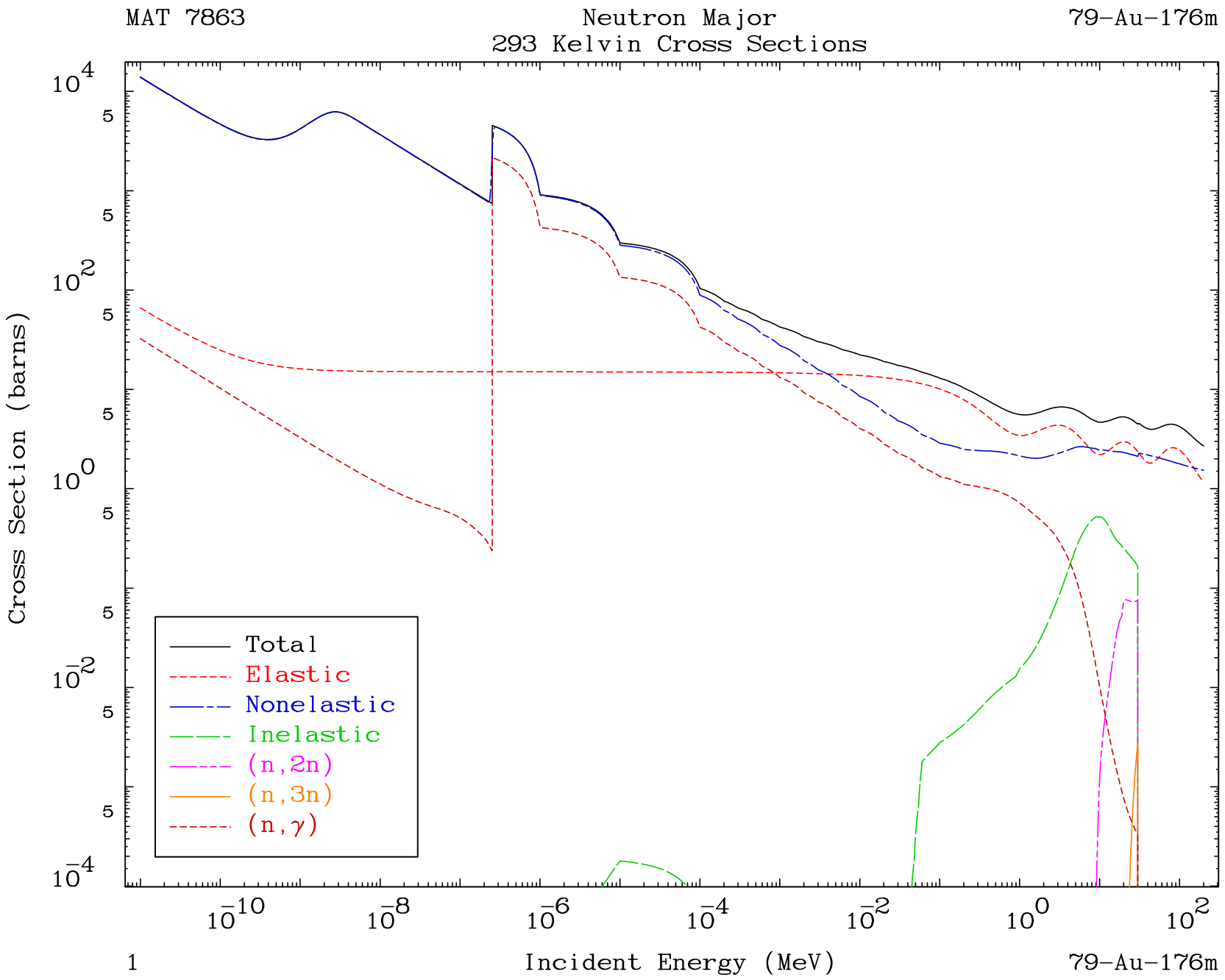
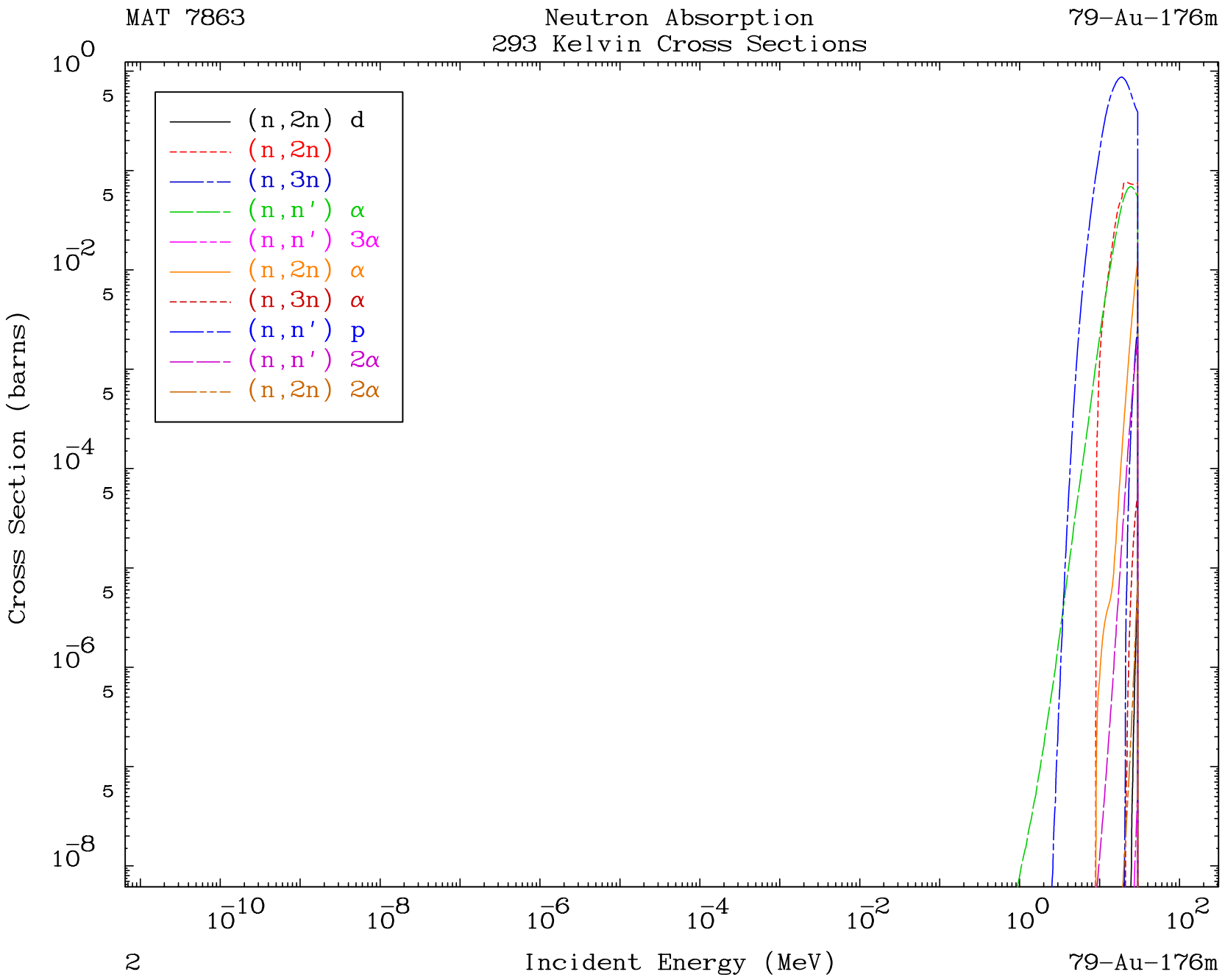
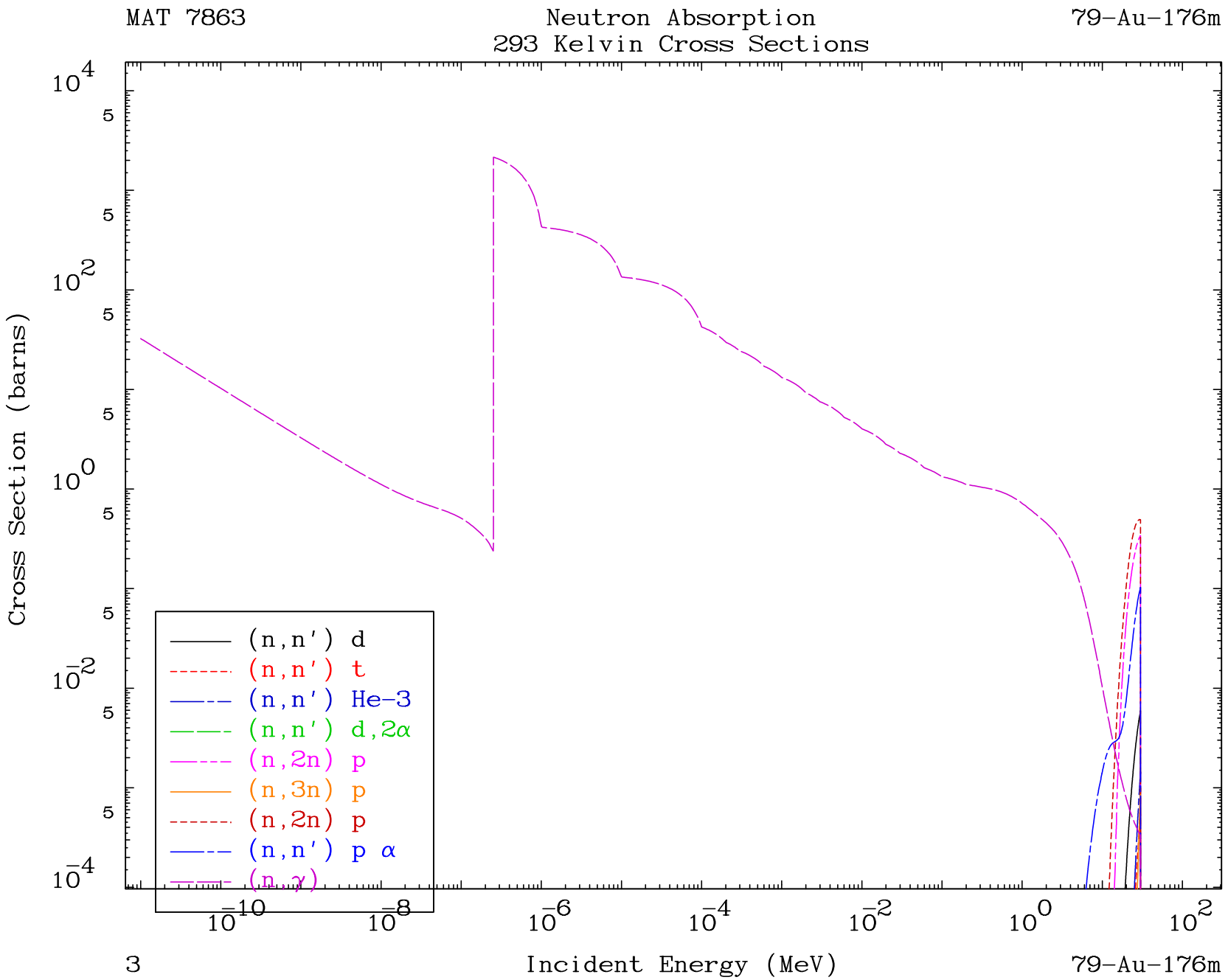
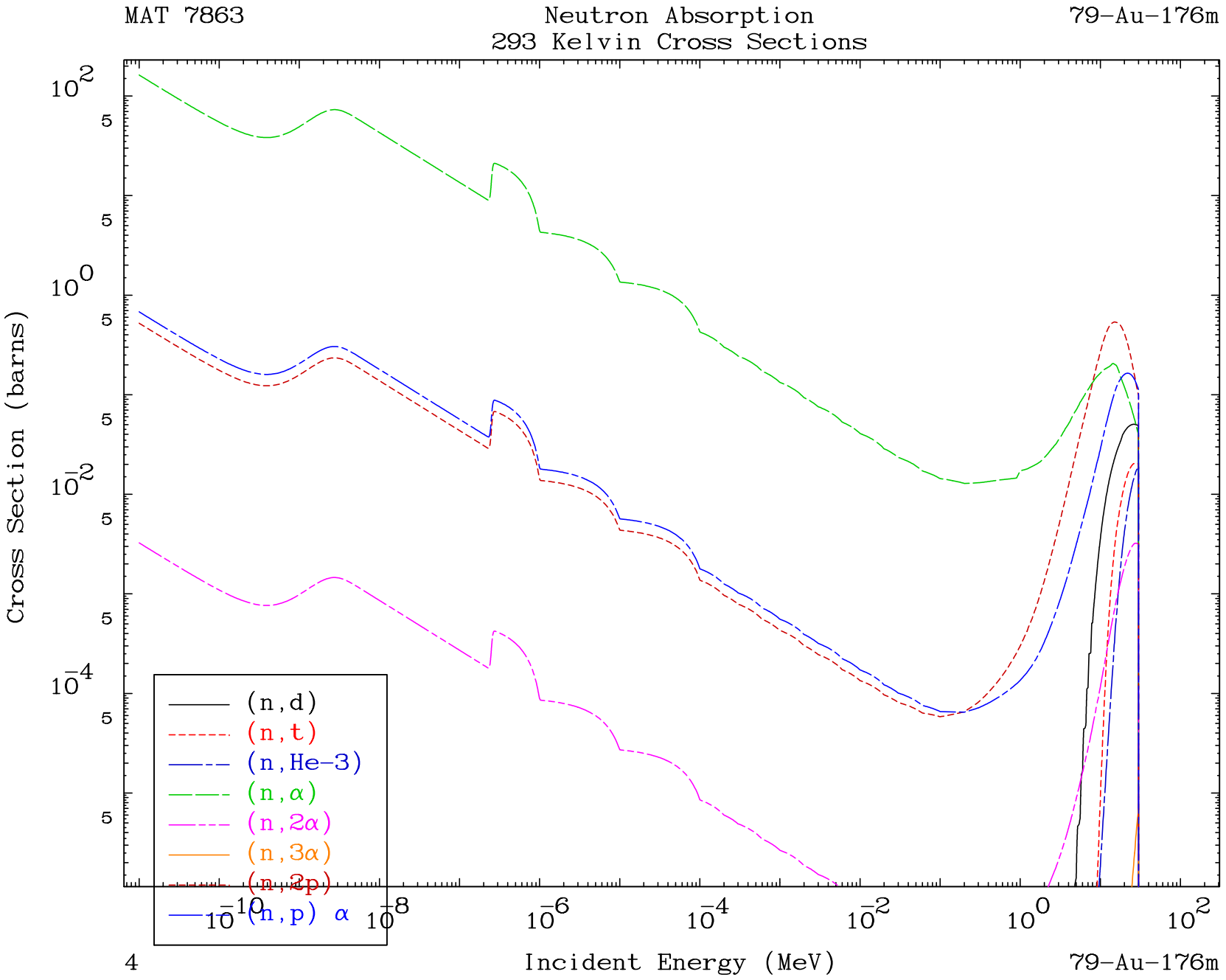
Program EVALPLOT
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

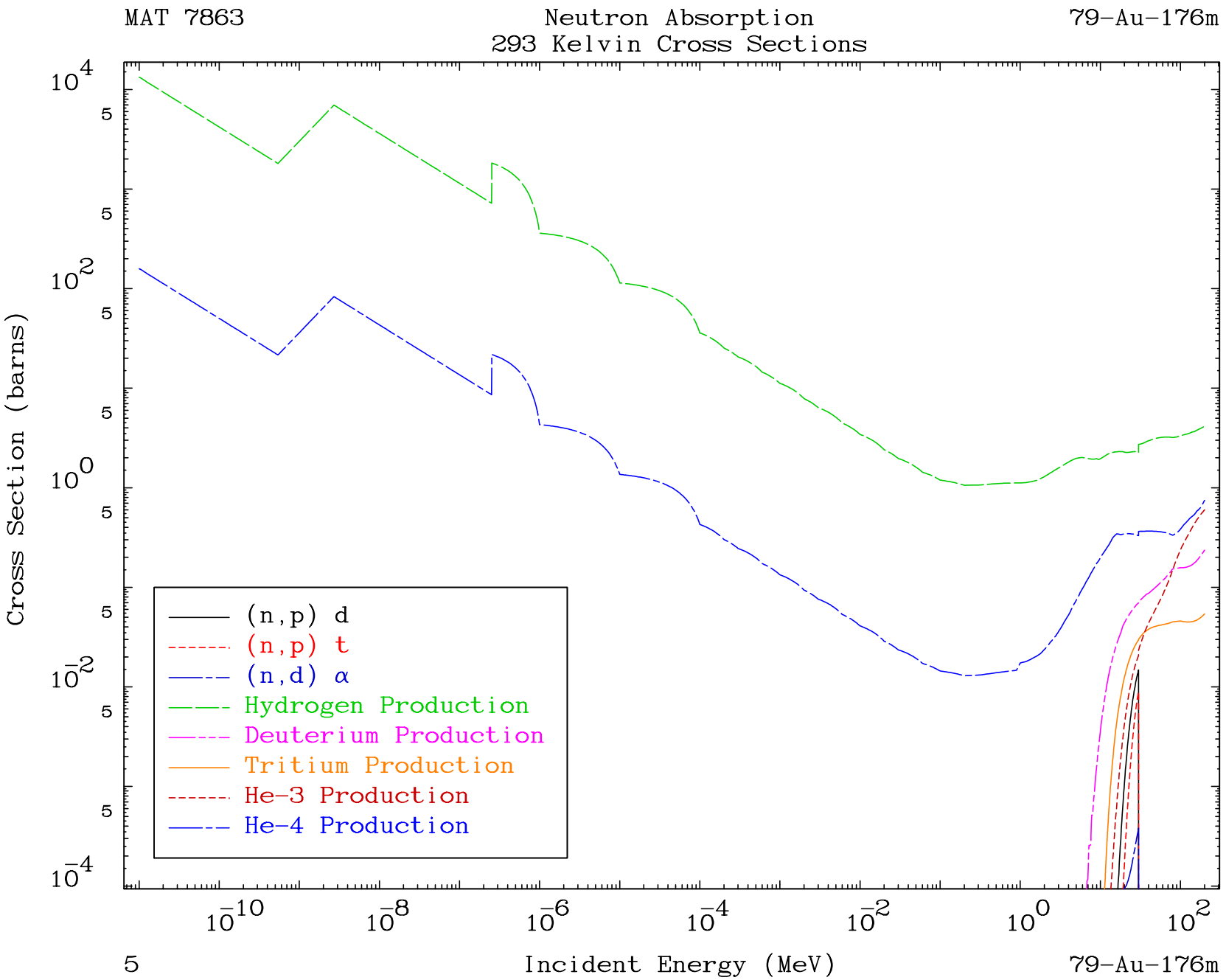
Press Mouse Button to Start

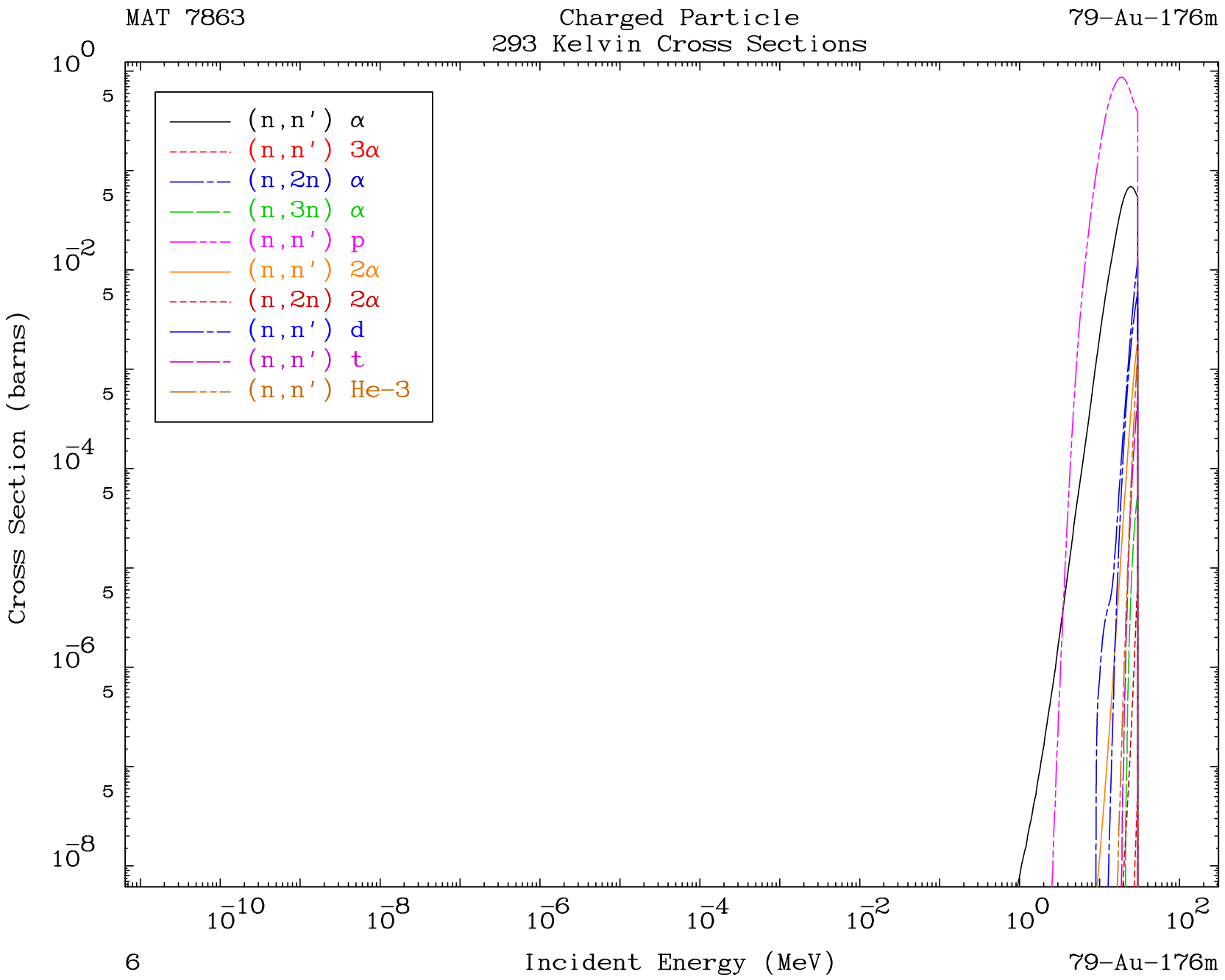

MAT 7863
Neutron Major
293 Kelvin Cross Sections
79-Au-176m
Cross Section (barns)
Incident Energy (MeV)
Total
Elastic
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)
1
79-Au-176m

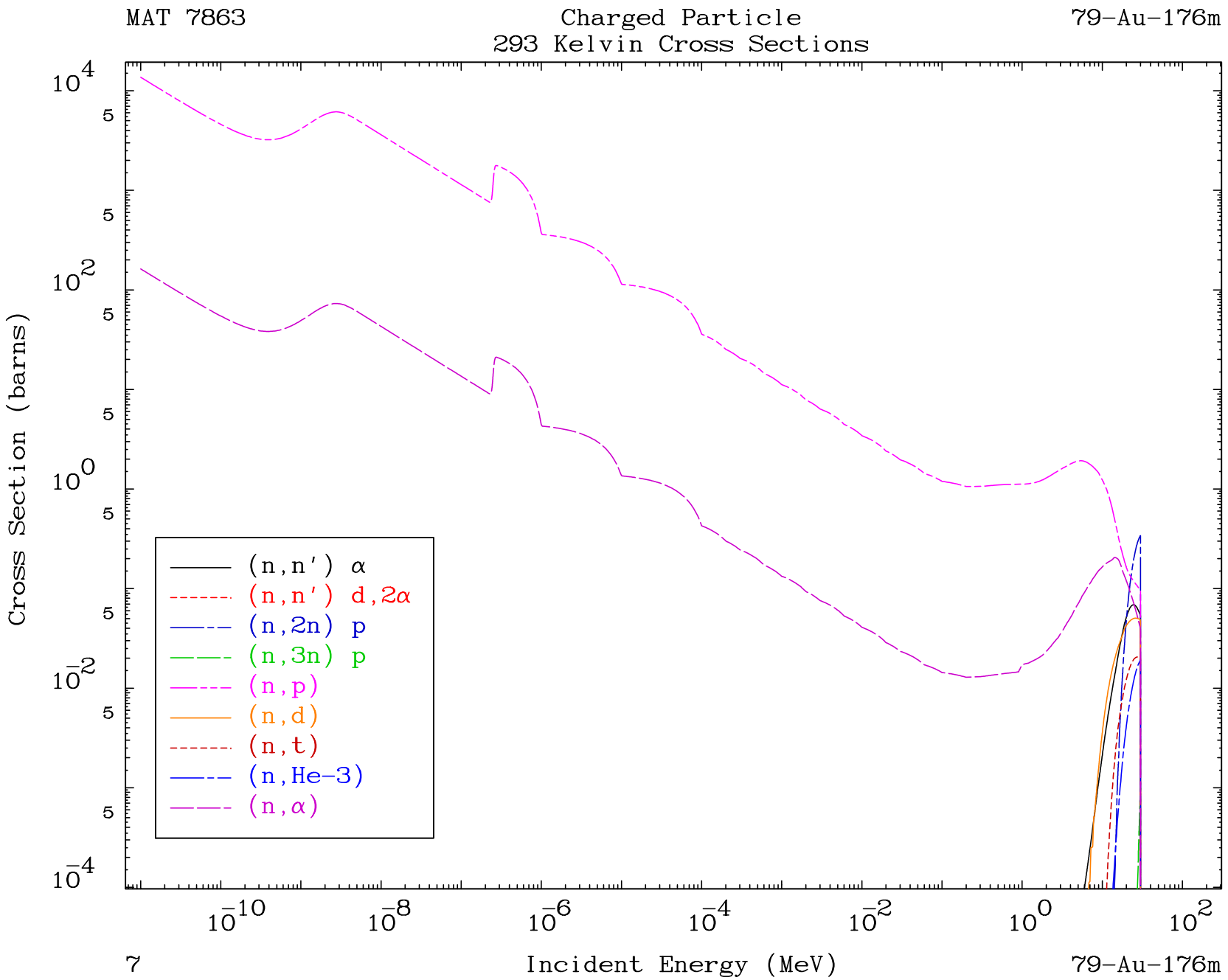

MAT 7863
Neutron Absorption
293 Kelvin Cross Sections
79-Au-176m
(n,2n) d
(n,2n)
(n,3n)
(n,n') α
(n,n') 3α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,2n) 2α
Cross Section (barns)
Incident Energy (MeV)
79-Au-176m
2

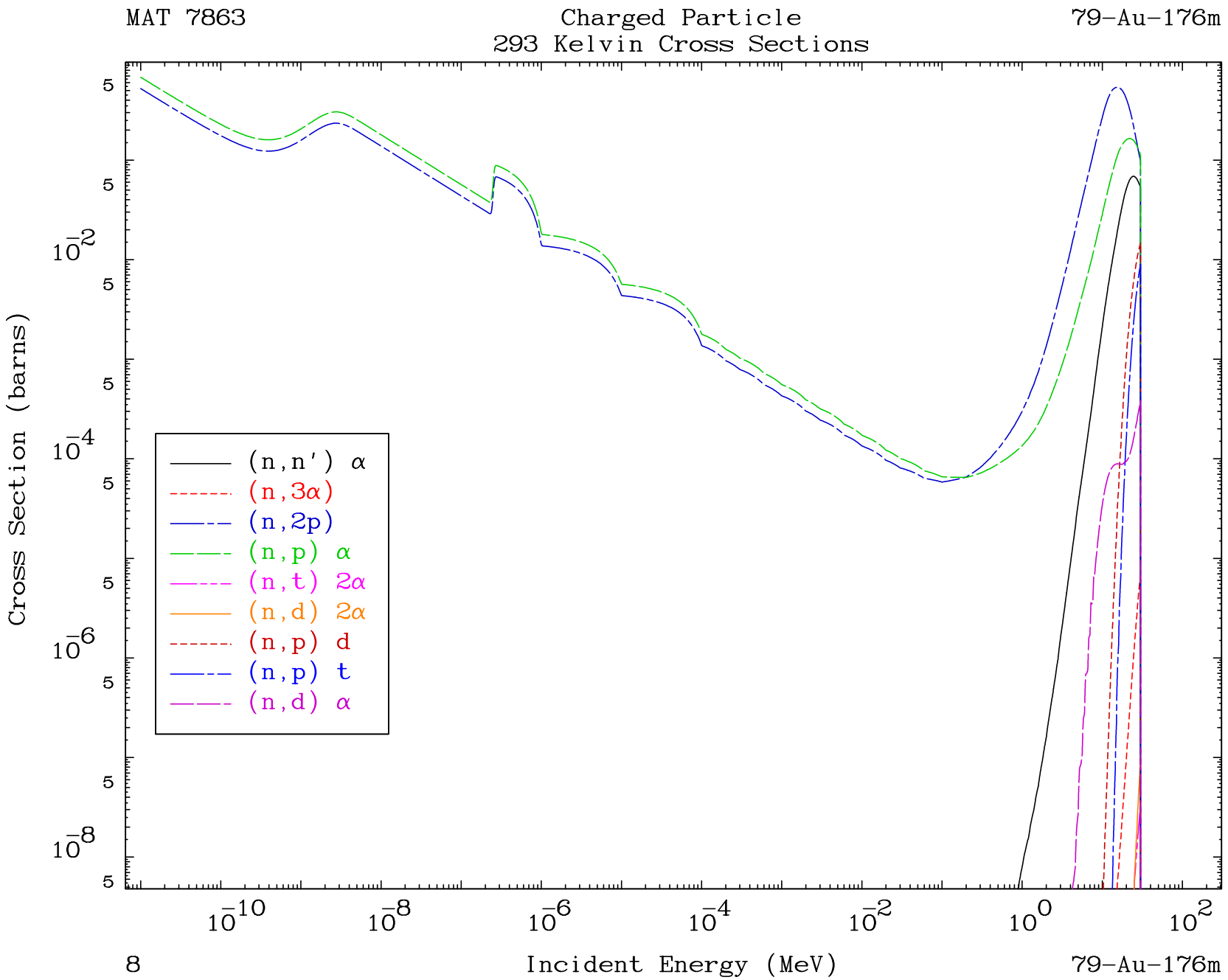

MAT 7863
Neutron Absorption
293 Kelvin Cross Sections
79-Au-176m
Cross Section (barns)
Incident Energy (MeV)
(n,n') d
(n,n') t
(n,n') He-3
(n,n') d,2α
(n,2n) p
(n,3n) p
(n,2n) p
(n,n') p α
(n,γ)
3
79-Au-176m

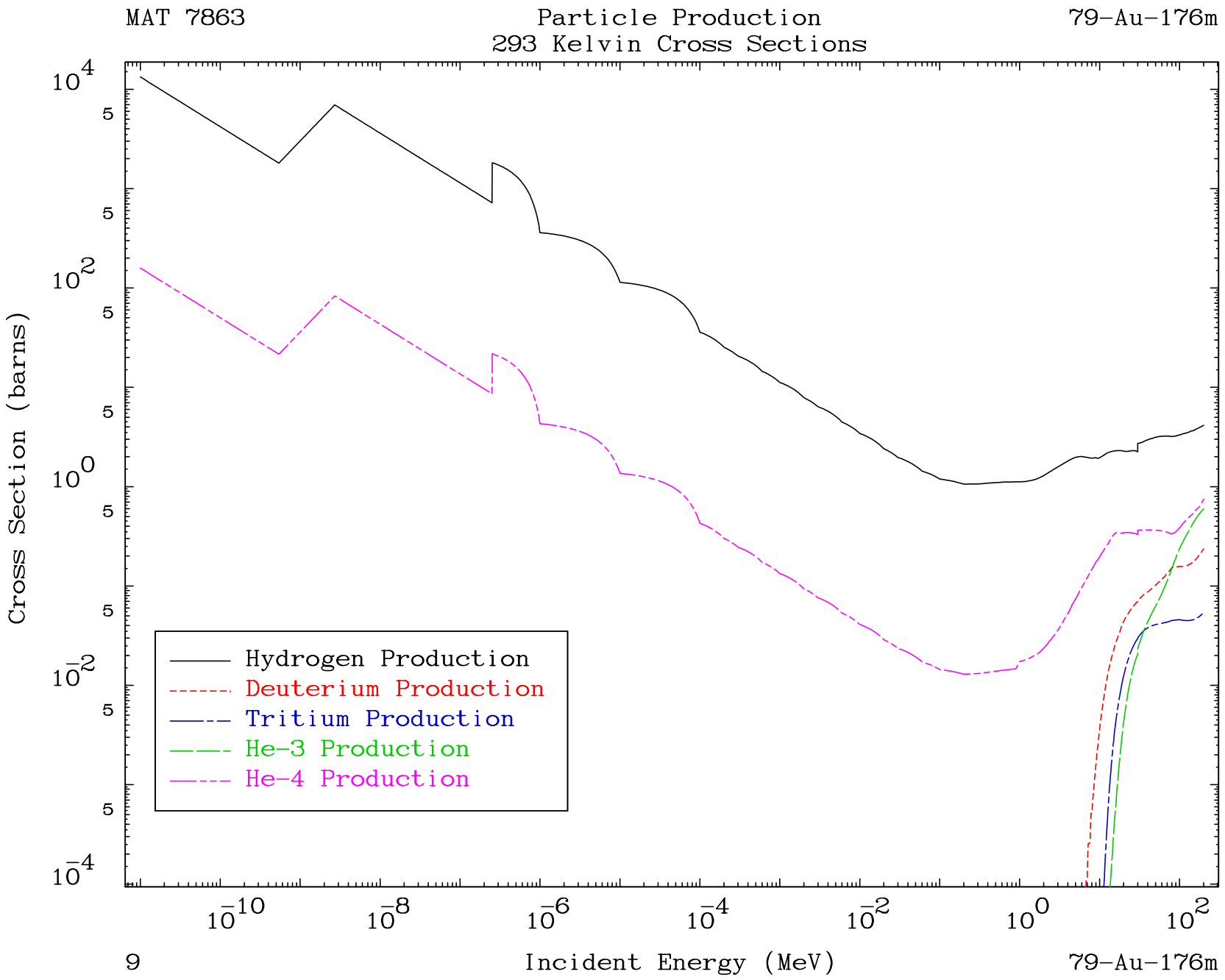

MAT 7863
Neutron Absorption
293 Kelvin Cross Sections
79-Au-176m
Cross Section (barns)
Incident Energy (MeV)
79-Au-176m
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,3α)
(n,2p)
(n,p) α

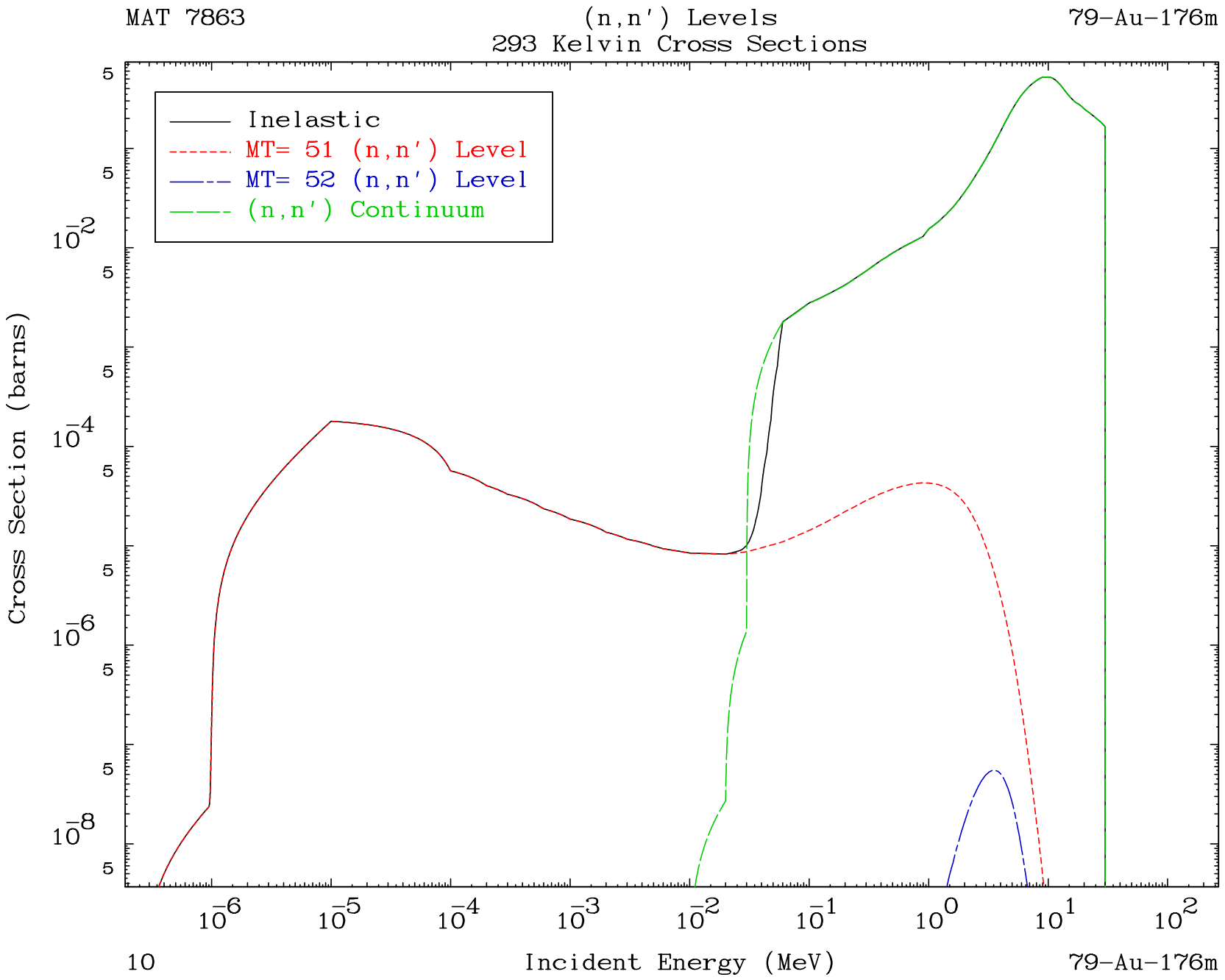

MAT 7863
Neutron Absorption
293 Kelvin Cross Sections
79-Au-176m
Cross Section (barns)
Incident Energy (MeV)
79-Au-176m
5
(n,p) d
(n,p) t
(n,d) α
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production

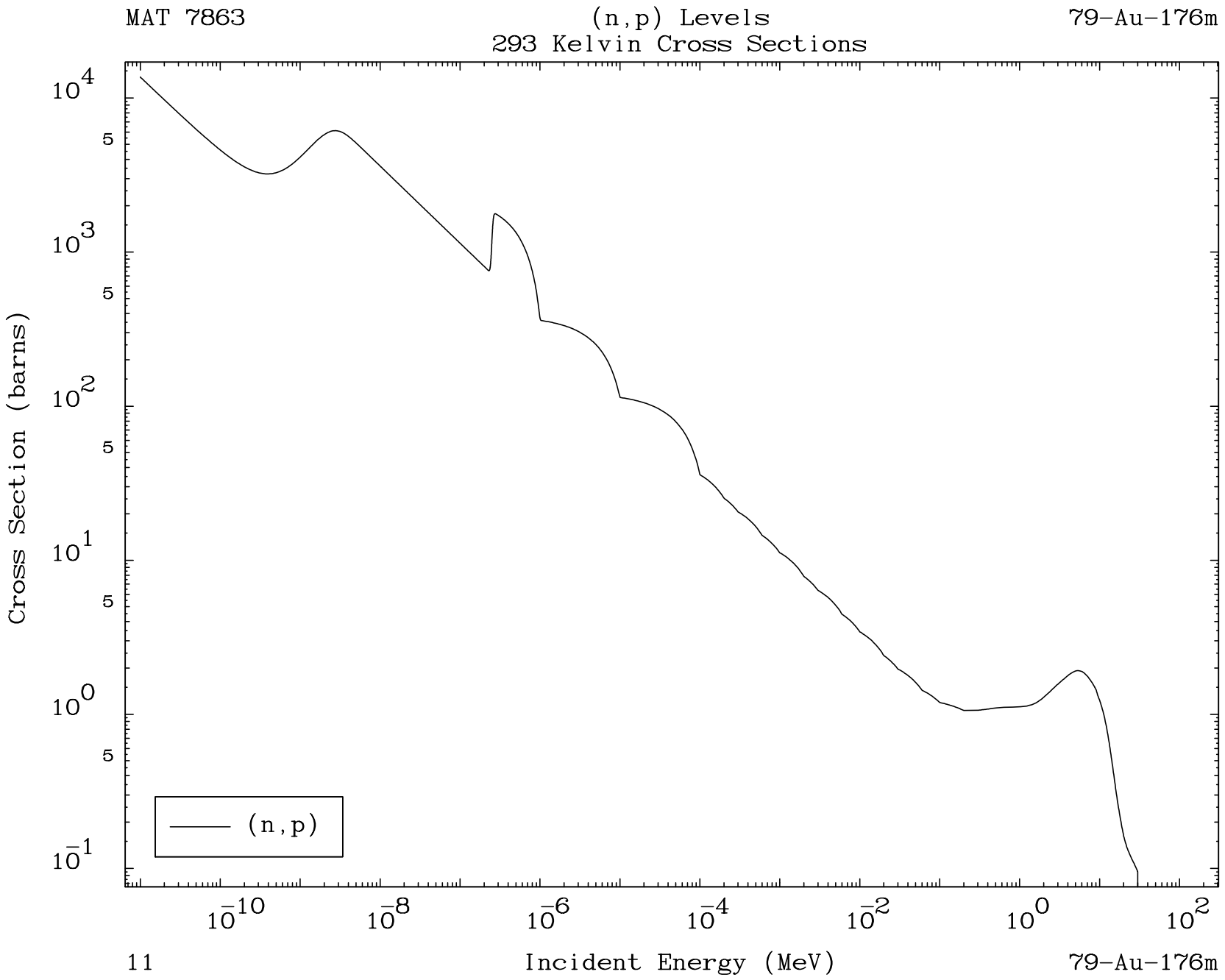

MAT 7863
Charged Particle
293 Kelvin Cross Sections
79-Au-176m
(n,n') α
(n,n') 3α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,2n) 2α
(n,n') d
(n,n') t
(n,n') He-3
Cross Section (barns)
Incident Energy (MeV)
6
79-Au-176m

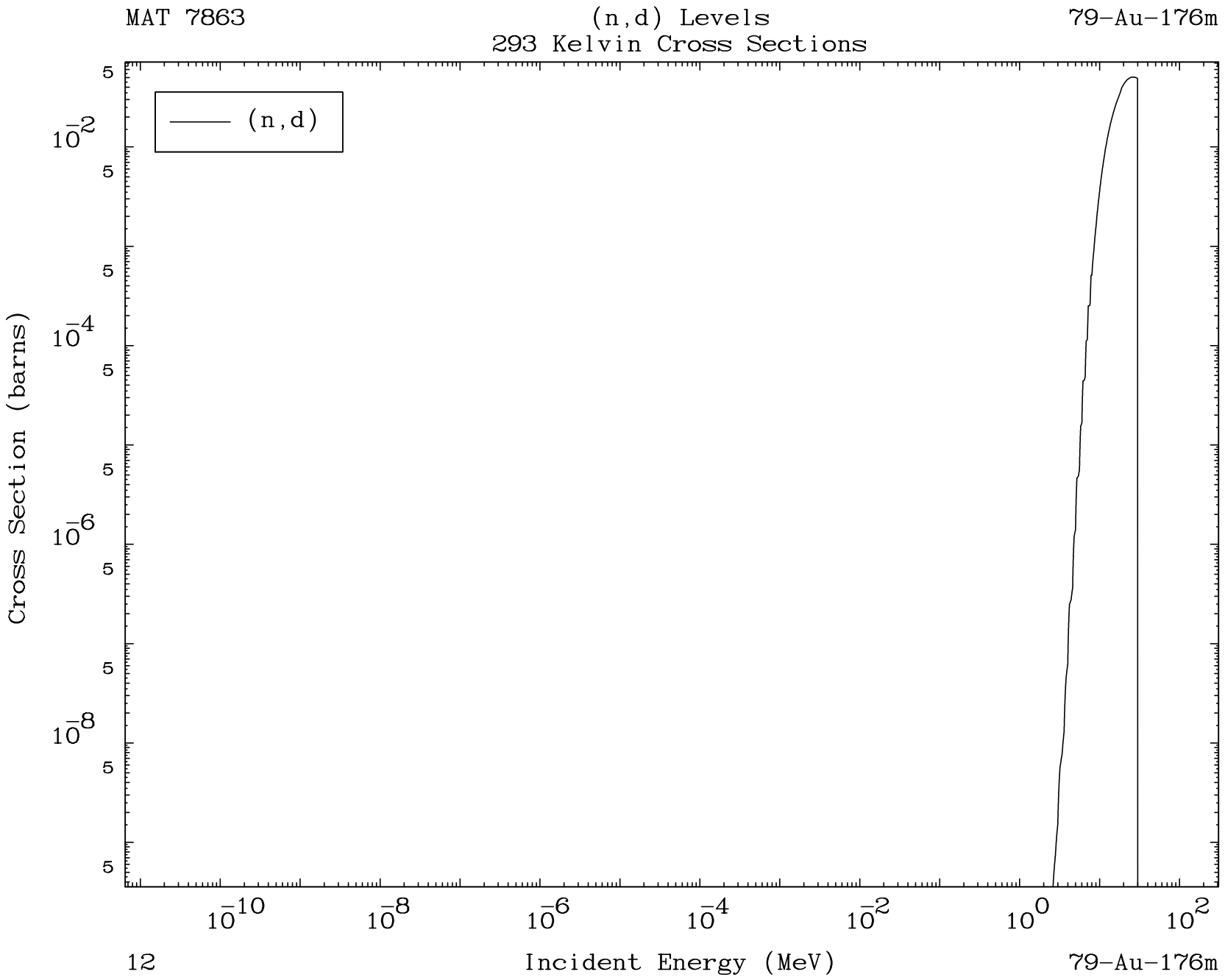

MAT 7863
Charged Particle
293 Kelvin Cross Sections
79-Au-176m
Cross Section (barns)
Incident Energy (MeV)
7
79-Au-176m
(n,n') α
(n,n') d,2α
(n,2n) p
(n,3n) p
(n,p)
(n,d)
(n,t)
(n,He-3)
(n,α)

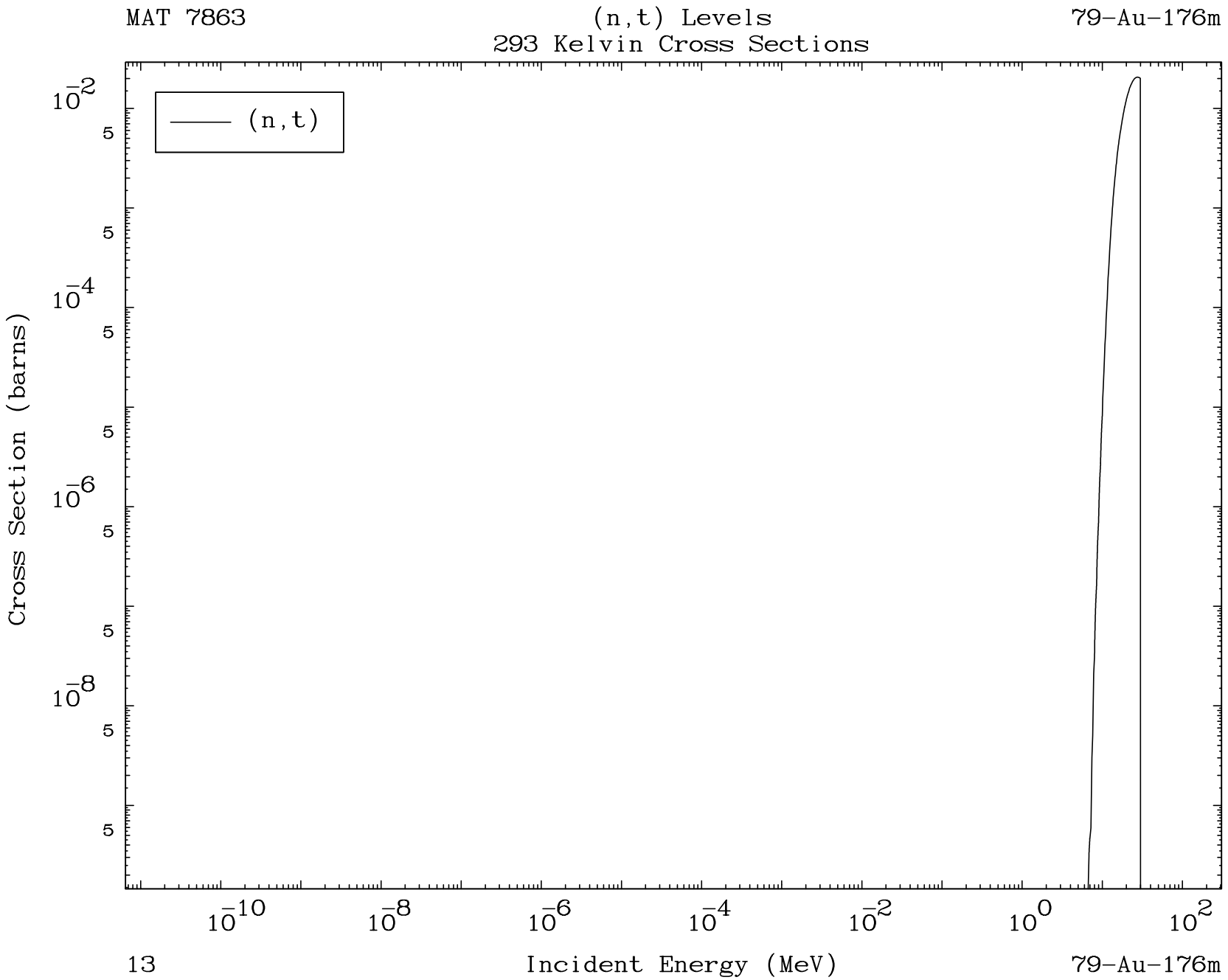

MAT 7863
Charged Particle
293 Kelvin Cross Sections
79-Au-176m
Cross Section (barns)
Incident Energy (MeV)
(n,n') α
(n,3α)
(n,2p)
(n,p) α
(n,t) 2α
(n,d) 2α
(n,p) d
(n,p) t
(n,d) α
8
79-Au-176m

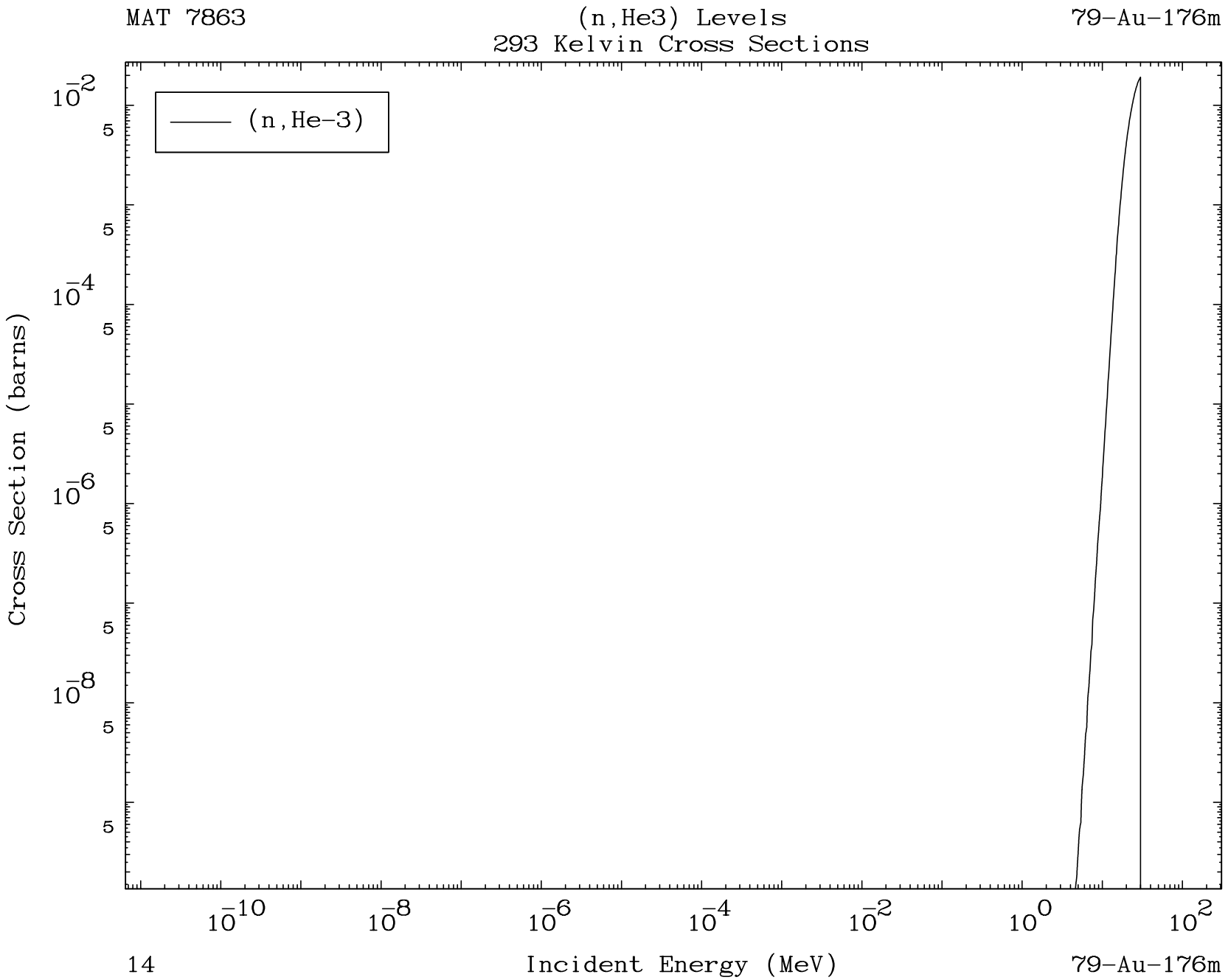

MAT 7863
Particle Production
293 Kelvin Cross Sections
79-Au-176m
Cross Section (barns)
Incident Energy (MeV)
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production
9
79-Au-176m

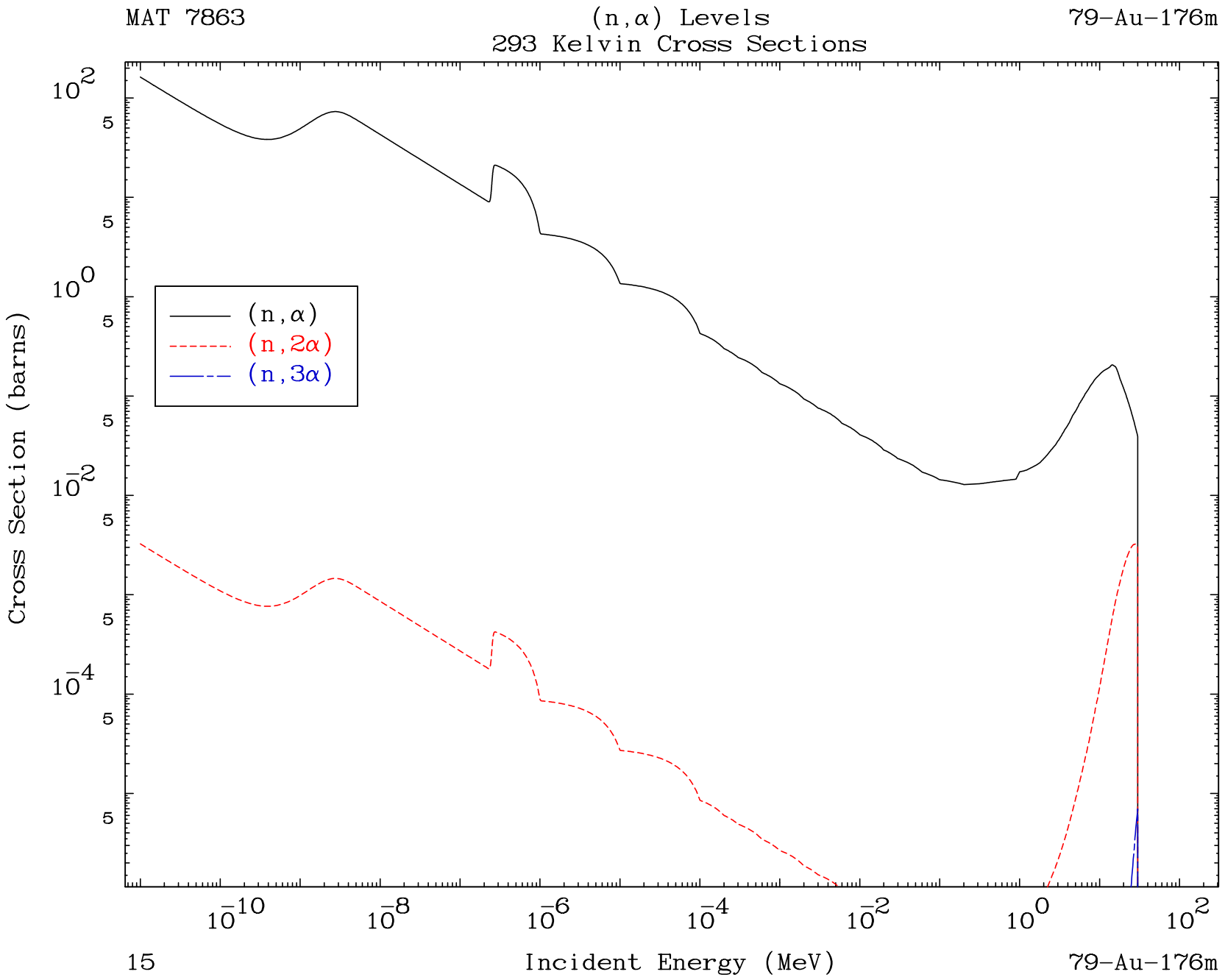

MAT 7863
(n,n') Levels
293 Kelvin Cross Sections
79-Au-176m
Inelastic
MT= 51 (n,n') Level
MT= 52 (n,n') Level
(n,n') Continuum
Cross Section (barns)
Incident Energy (MeV)
79-Au-176m
10

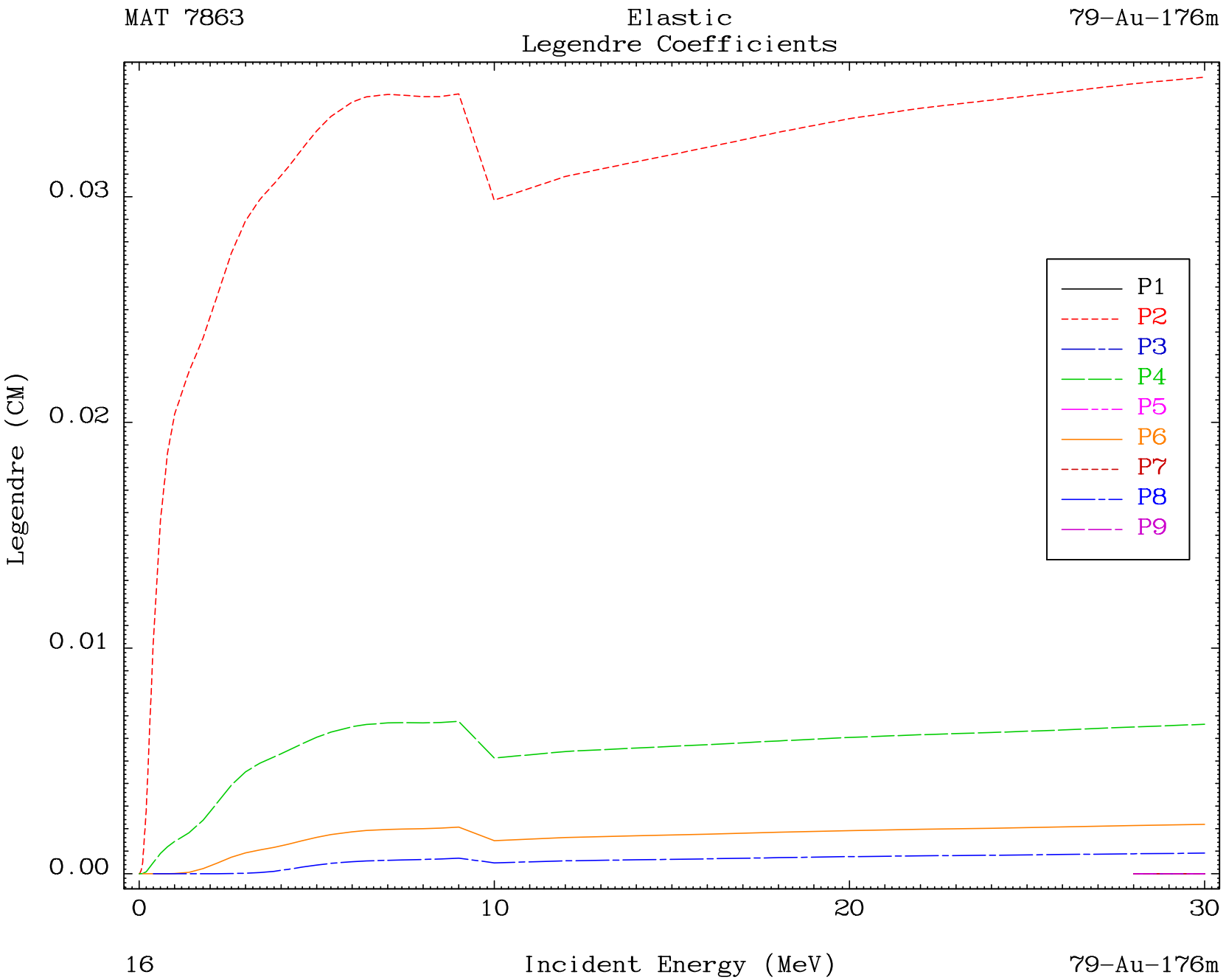

MAT 7863
(n,p) Levels
79-Au-176m
293 Kelvin Cross Sections
Cross Section (barns)
10^4
5
10^3
5
10^2
5
10^1
5
10^0
5
10^-1
(n,p)
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
11
Incident Energy (MeV)
79-Au-176m

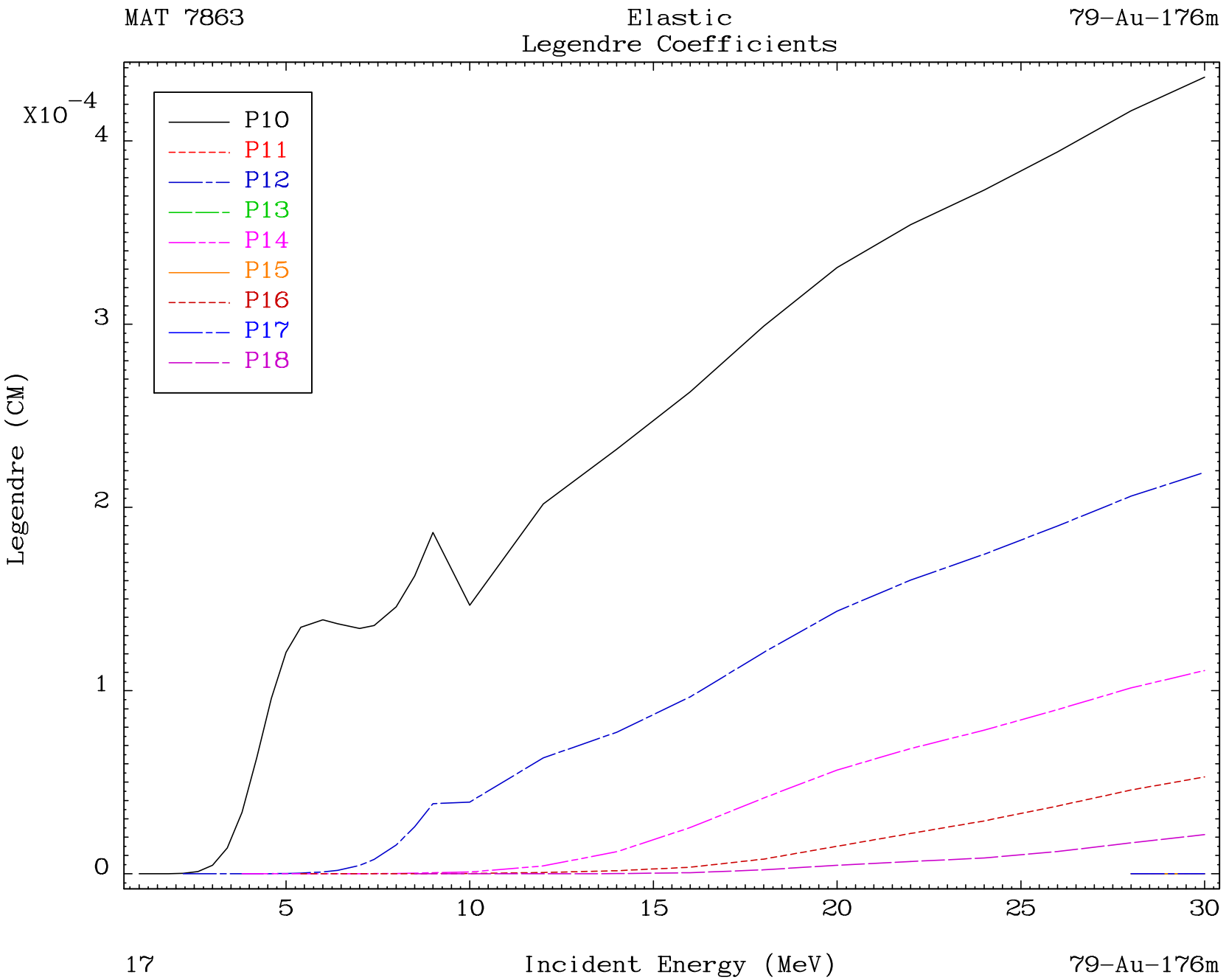

MAT 7863
(n,d) Levels
293 Kelvin Cross Sections
79-Au-176m
(n,d)
Cross Section (barns)
Incident Energy (MeV)
12
79-Au-176m

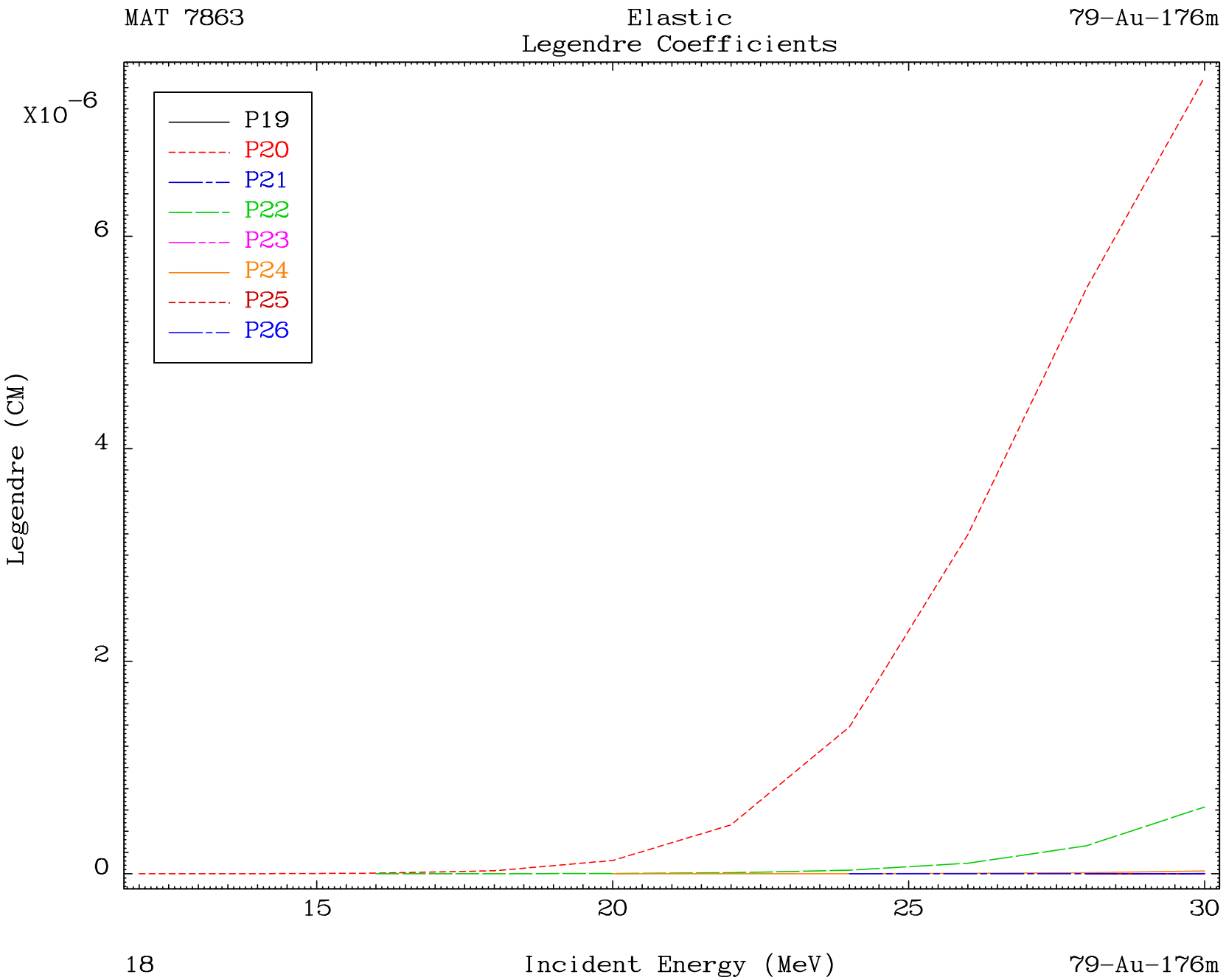

MAT 7863
(n,t) Levels
293 Kelvin Cross Sections
79-Au-176m
(n,t)
Cross Section (barns)
Incident Energy (MeV)
13
79-Au-176m

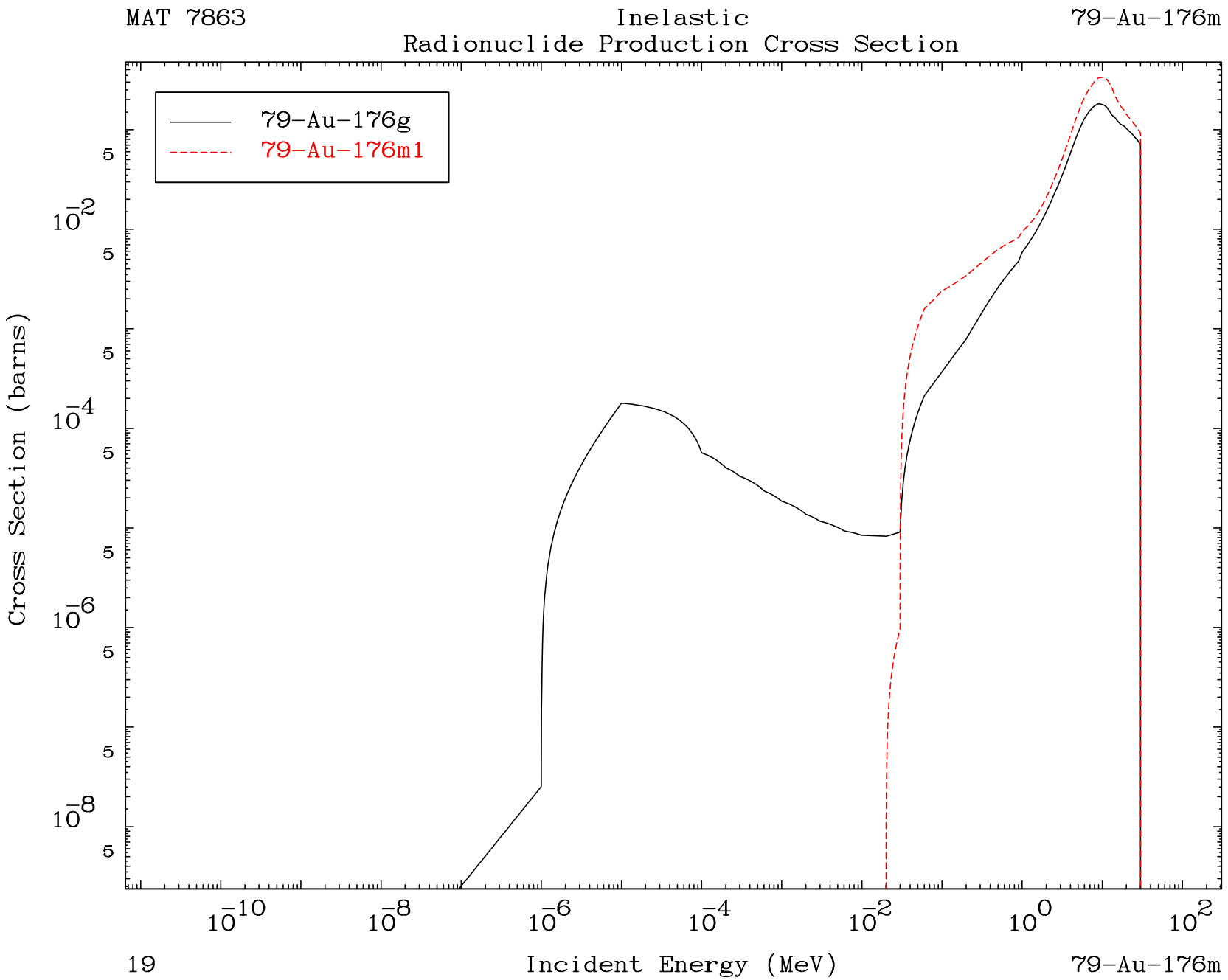

MAT 7863
(n,He3) Levels
293 Kelvin Cross Sections
79-Au-176m
(n,He-3)
Cross Section (barns)
10^-2
10^-4
10^-6
10^-8
5
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
Incident Energy (MeV)
14
79-Au-176m

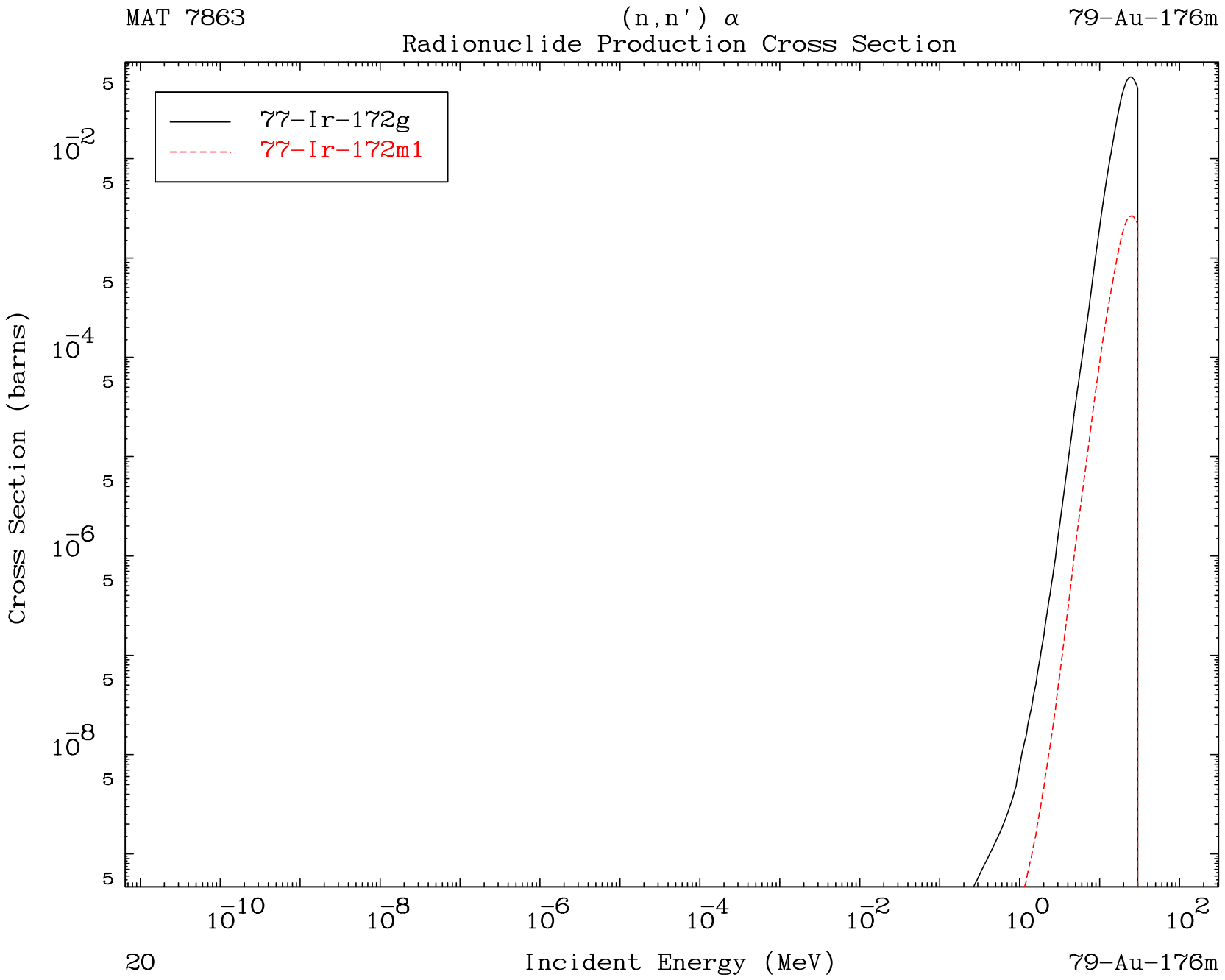

MAT 7863
(n,α) Levels
293 Kelvin Cross Sections
79-Au-176m
Cross Section (barns)
10^2
10^0
10^-2
10^-4
(n,α)
(n,2α)
(n,3α)
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
Incident Energy (MeV)
15
79-Au-176m

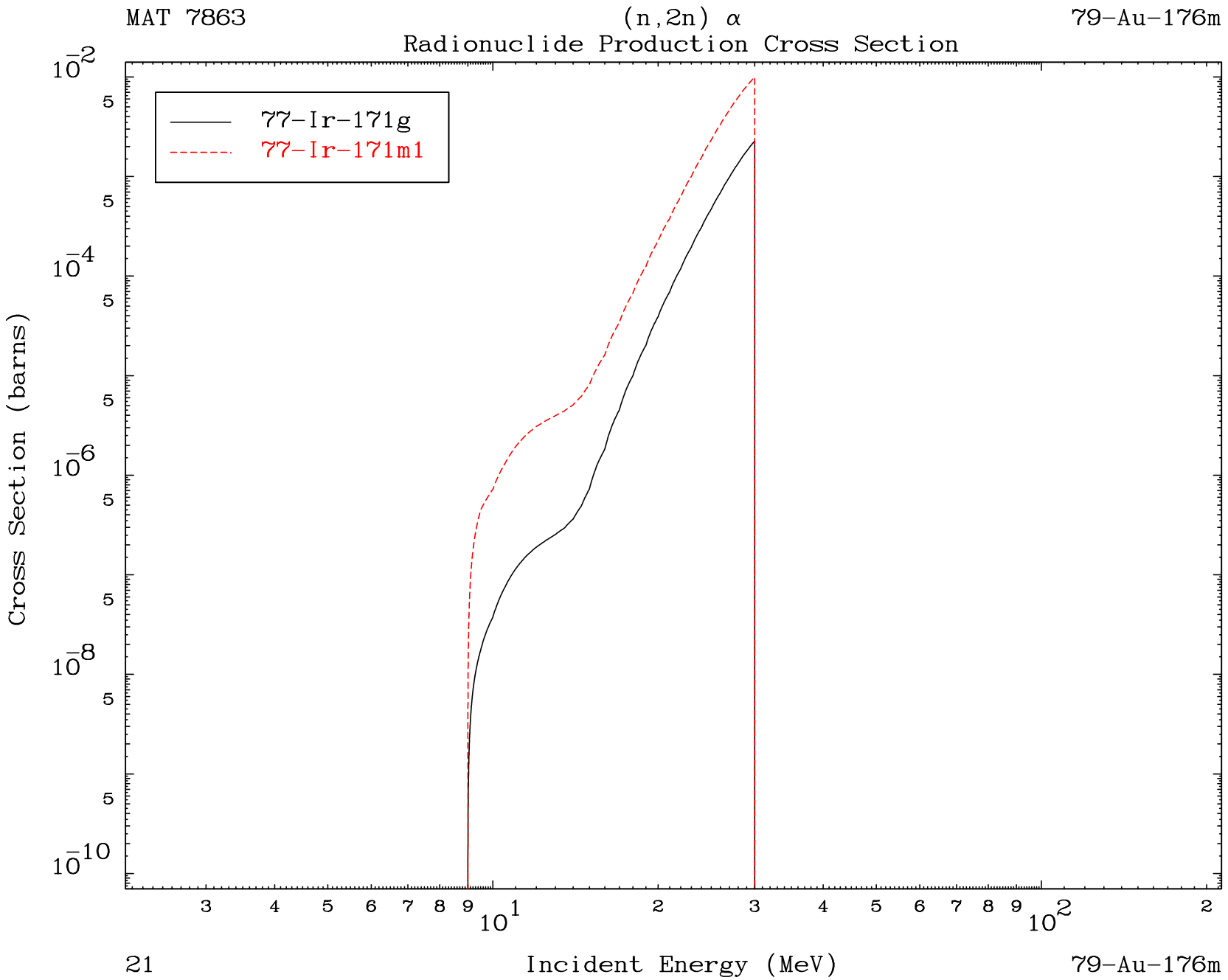

MAT 7863
Elastic
Legendre Coefficients
79-Au-176m
0.03
0.02
0.01
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
10
20
30
16
Incident Energy (MeV)
79-Au-176m

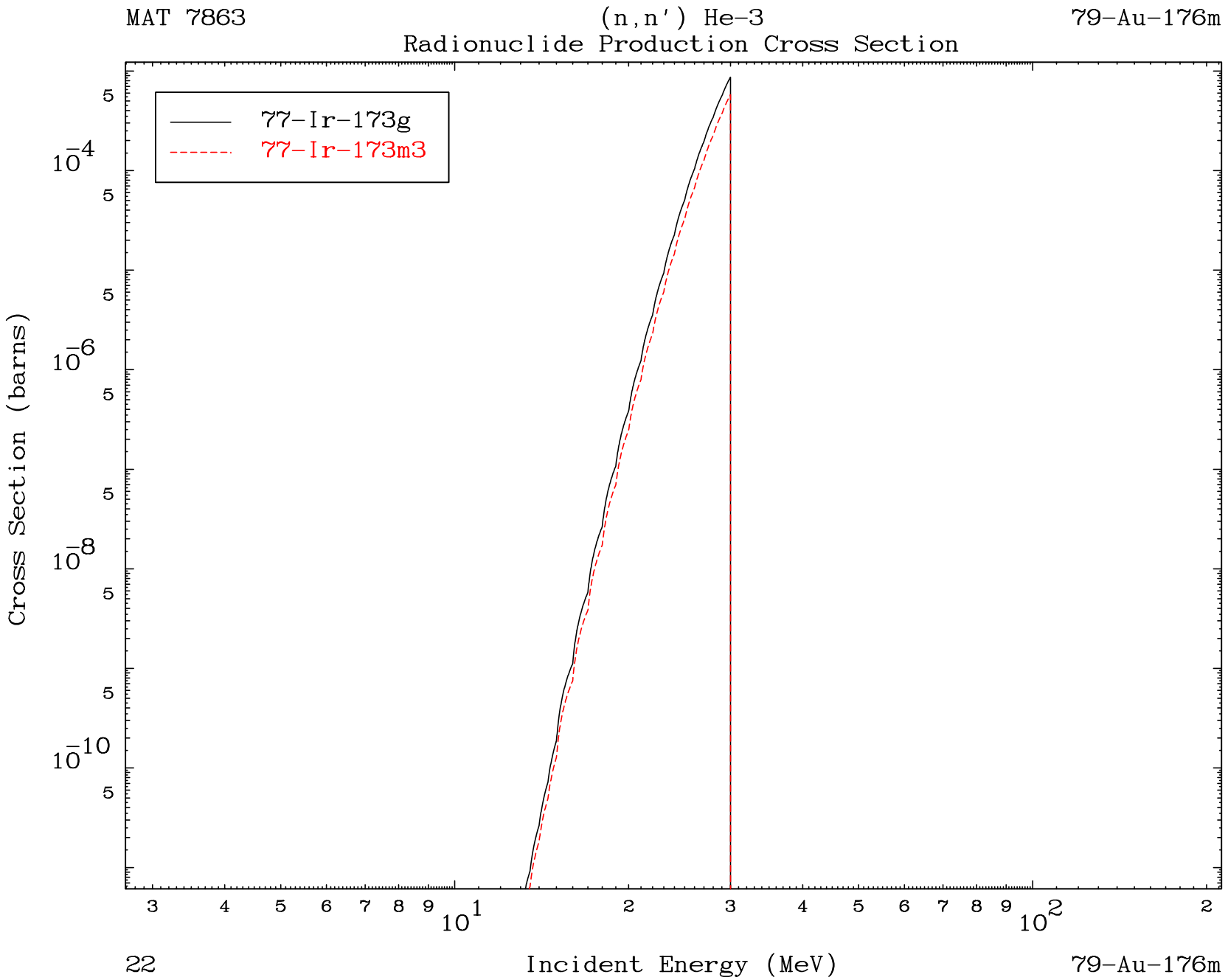

MAT 7863
Elastic
Legendre Coefficients
79-Au-176m
X10^-4
4
3
2
1
0
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
5
10
15
20
25
30
17
Incident Energy (MeV)
79-Au-176m

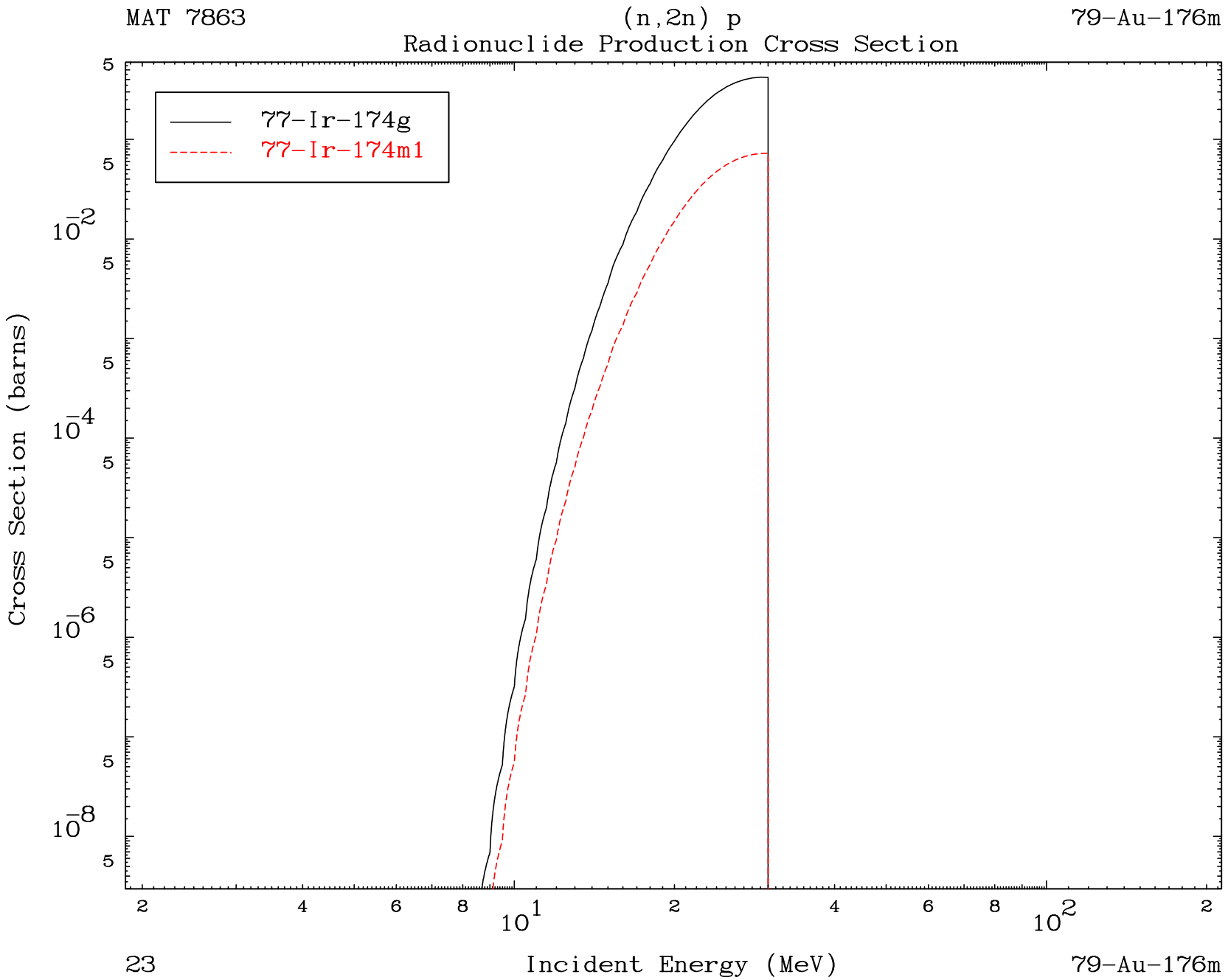

MAT 7863
Elastic
Legendre Coefficients
79-Au-176m
X10 −6
P19
P20
P21
P22
P23
P24
P25
P26
Legendre (CM)
6
4
2
0
15
20
25
30
18
Incident Energy (MeV)
79-Au-176m

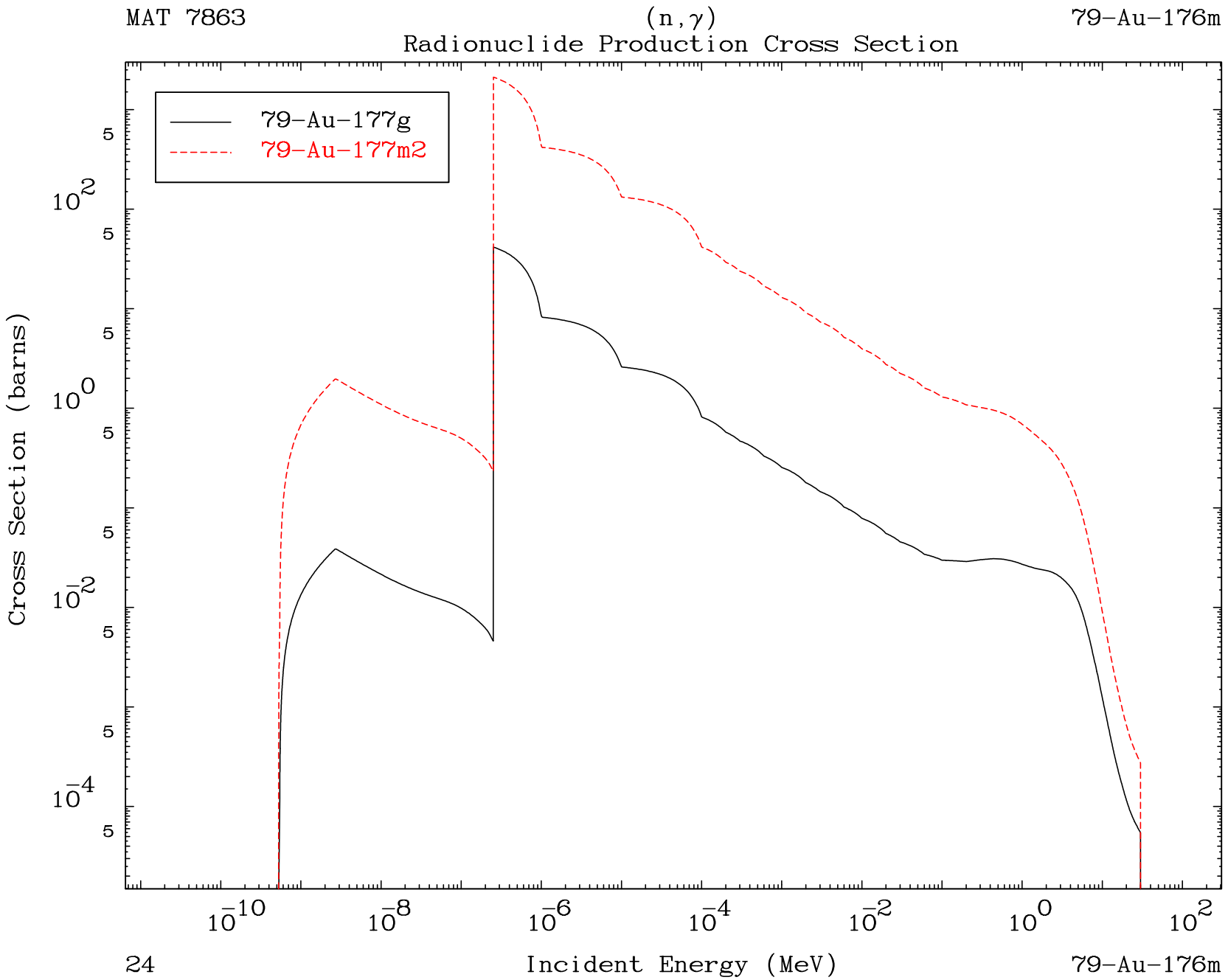

MAT 7863
Inelastic
79-Au-176m
Radionuclide Production Cross Section
79-Au-176g
79-Au-176m1
Cross Section (barns)
Incident Energy (MeV)
19
79-Au-176m

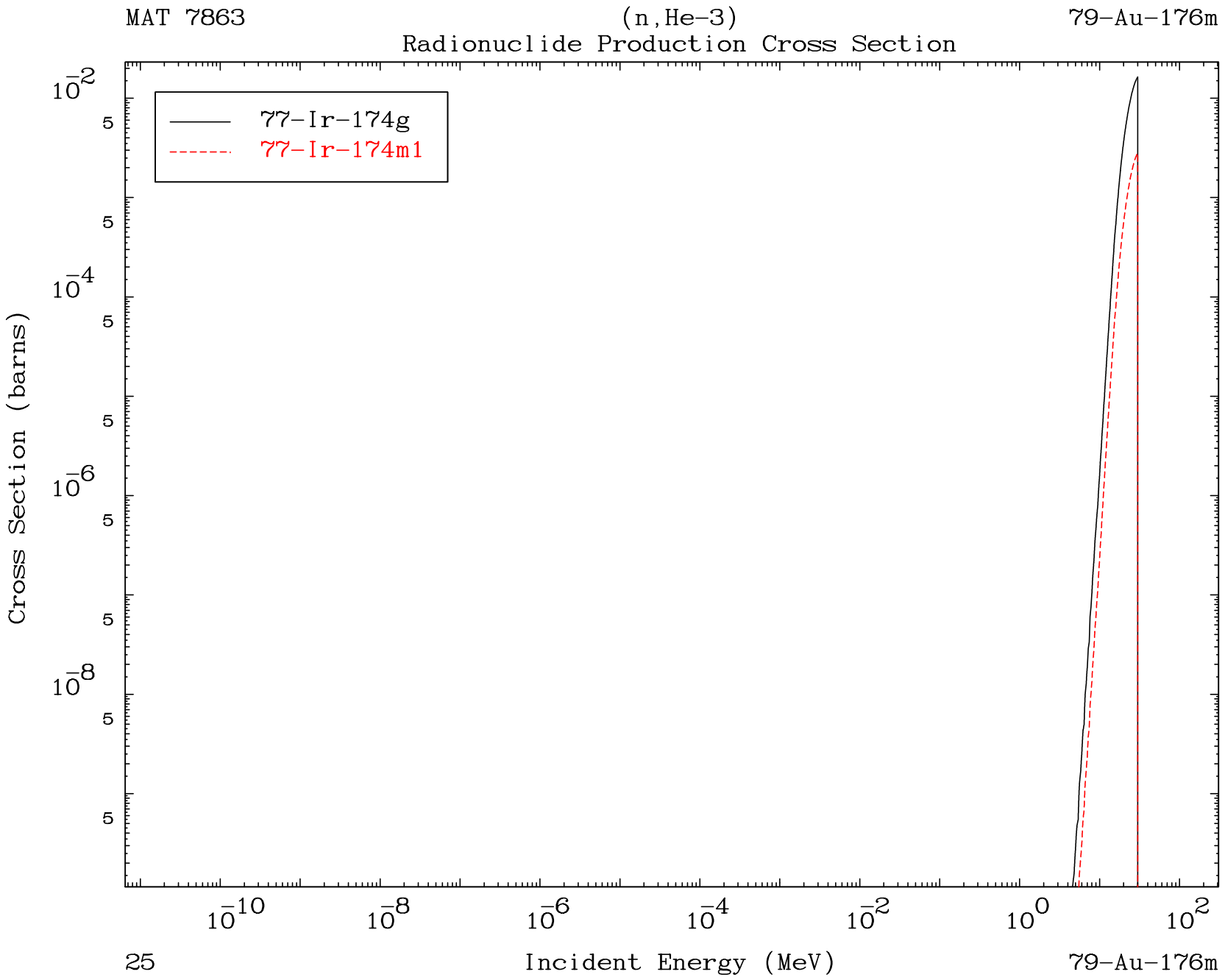

MAT 7863
(n,n') α
79-Au-176m
Radionuclide Production Cross Section
77-Ir-172g
77-Ir-172m1
Cross Section (barns)
Incident Energy (MeV)
20
79-Au-176m

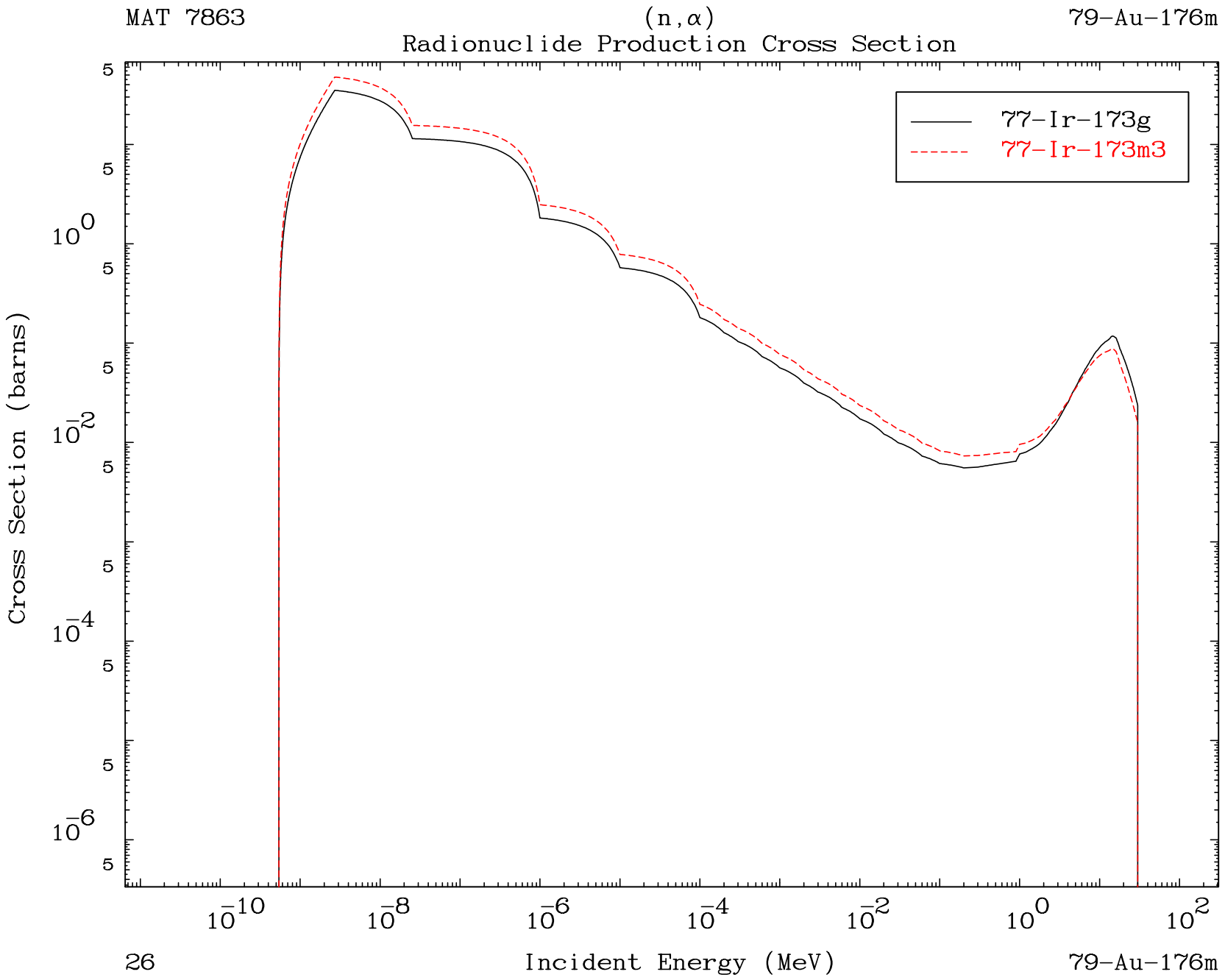

MAT 7863
(n,2n) α
79-Au-176m
Radionuclide Production Cross Section
77-Ir-171g
77-Ir-171m1
Cross Section (barns)
Incident Energy (MeV)
21
79-Au-176m

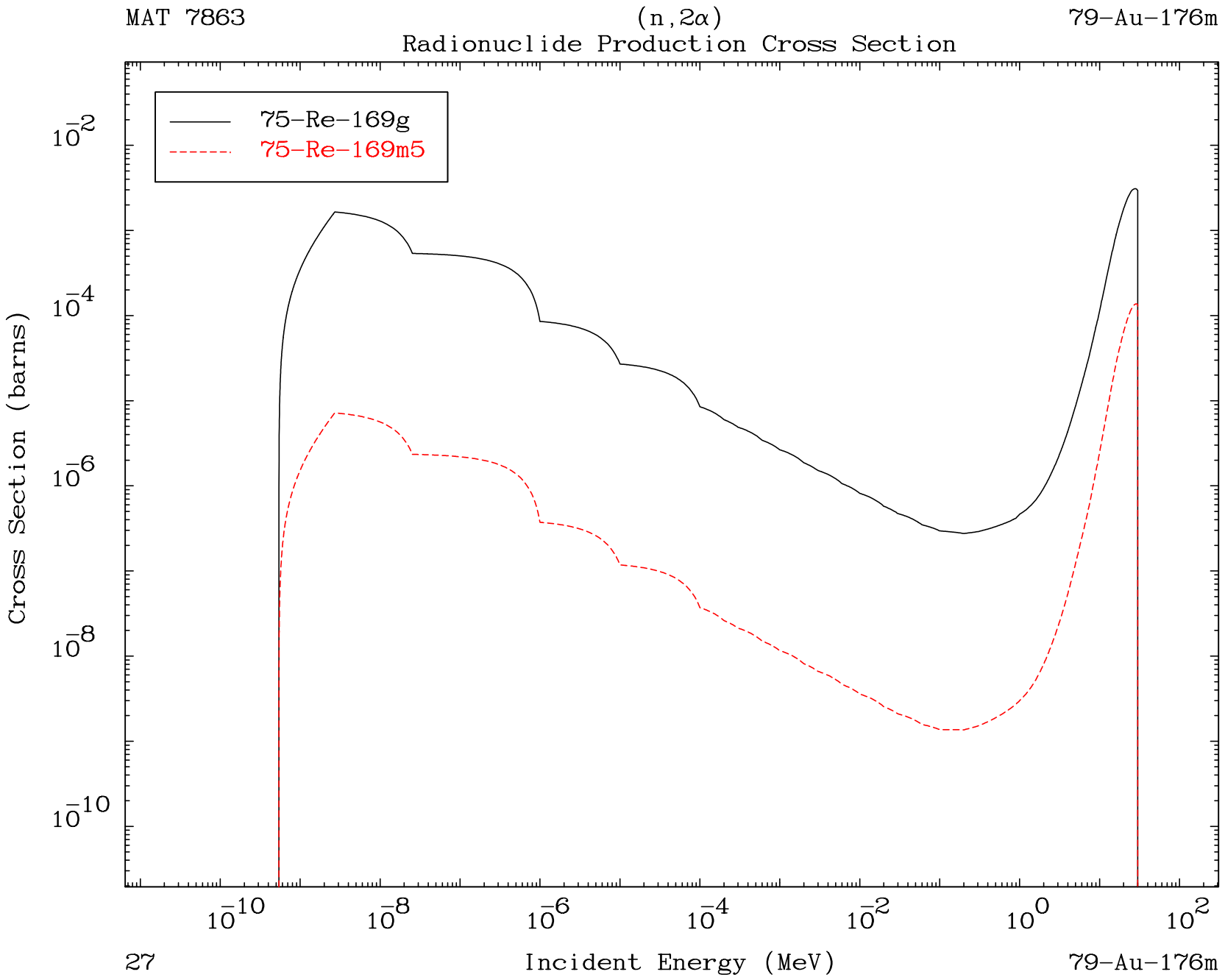

MAT 7863
(n,n') He-3
79-Au-176m
Radionuclide Production Cross Section
77-Ir-173g
77-Ir-173m3
Cross Section (barns)
Incident Energy (MeV)
22
79-Au-176m

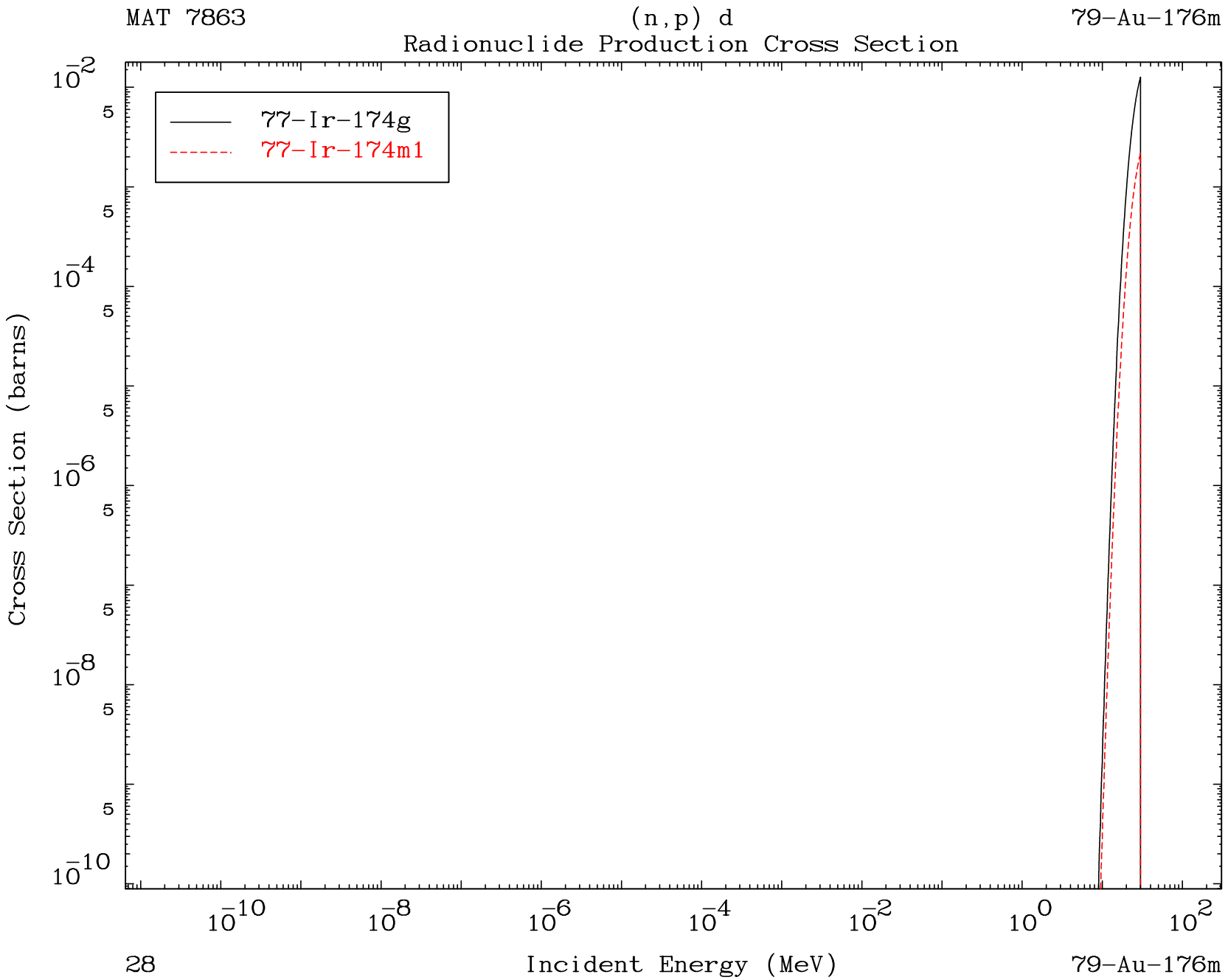

MAT 7863
(n,2n) p
79-Au-176m
Radionuclide Production Cross Section
77-Ir-174g
77-Ir-174m1
Cross Section (barns)
Incident Energy (MeV)
23
79-Au-176m

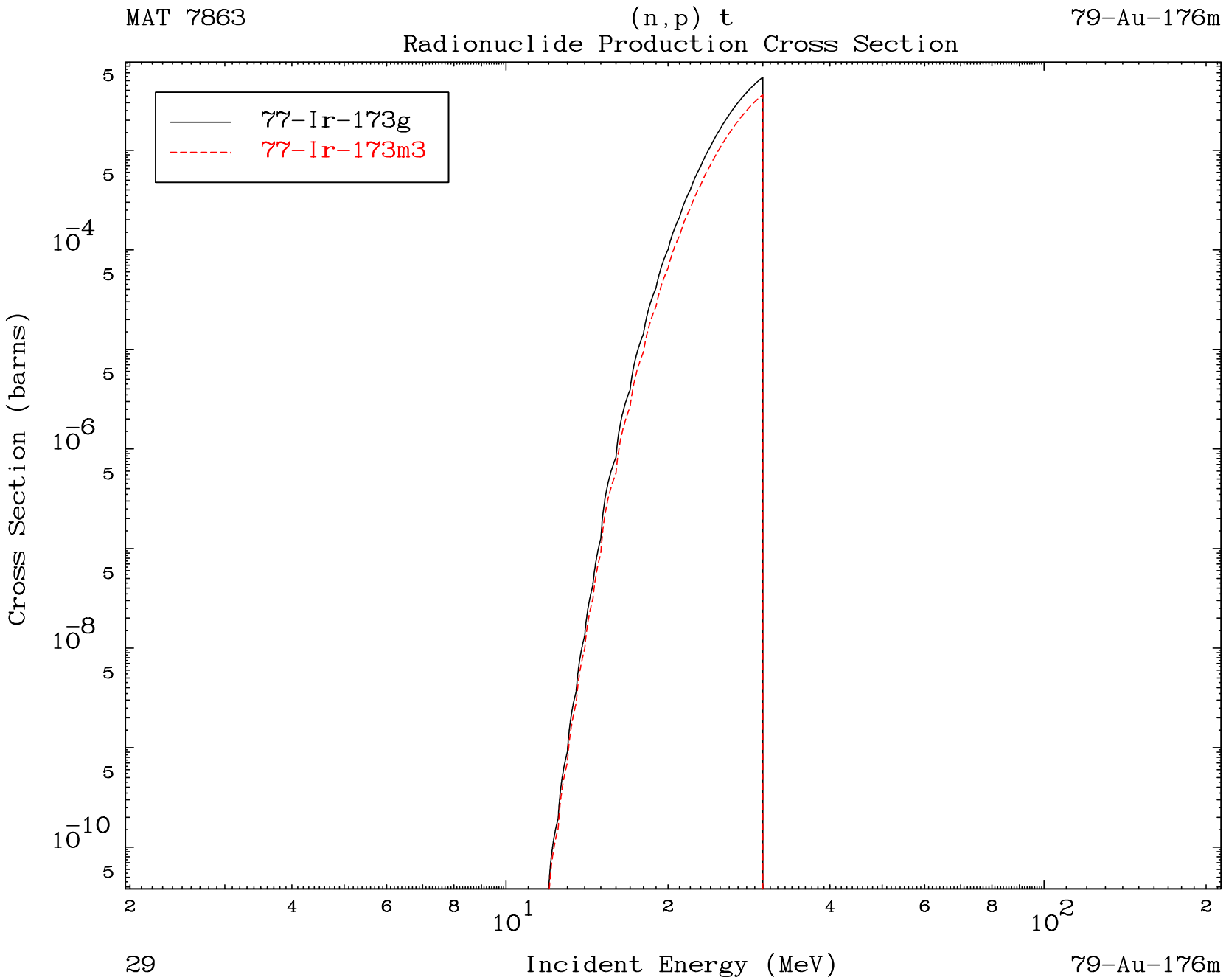

MAT 7863
(n,γ)
79-Au-176m
Radionuclide Production Cross Section
79-Au-177g
79-Au-177m2
Cross Section (barns)
10^2
10^0
10^-2
10^-4
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
24
Incident Energy (MeV)
79-Au-176m


MAT 7863
(n,He-3)
79-Au-176m
Radionuclide Production Cross Section
77-Ir-174g
77-Ir-174m1
Cross Section (barns)
Incident Energy (MeV)
25
79-Au-176m


MAT 7863
(n,α)
79-Au-176m
Radionuclide Production Cross Section
77-Ir-173g
77-Ir-173m3
Cross Section (barns)
Incident Energy (MeV)
26
79-Au-176m


MAT 7863
(n,2α)
79-Au-176m
Radionuclide Production Cross Section
75-Re-169g
75-Re-169m5
Cross Section (barns)
10^-2
10^-4
10^-6
10^-8
10^-10
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
27
Incident Energy (MeV)
79-Au-176m


MAT 7863
(n,p) d
79-Au-176m
Radionuclide Production Cross Section
77-Ir-174g
77-Ir-174m1
Cross Section (barns)
Incident Energy (MeV)
28
79-Au-176m


MAT 7863
(n,p) t
79-Au-176m
Radionuclide Production Cross Section
77-Ir-173g
77-Ir-173m3
Cross Section (barns)
10-4
10-6
10-8
10-10
Incident Energy (MeV)
29
79-Au-176m