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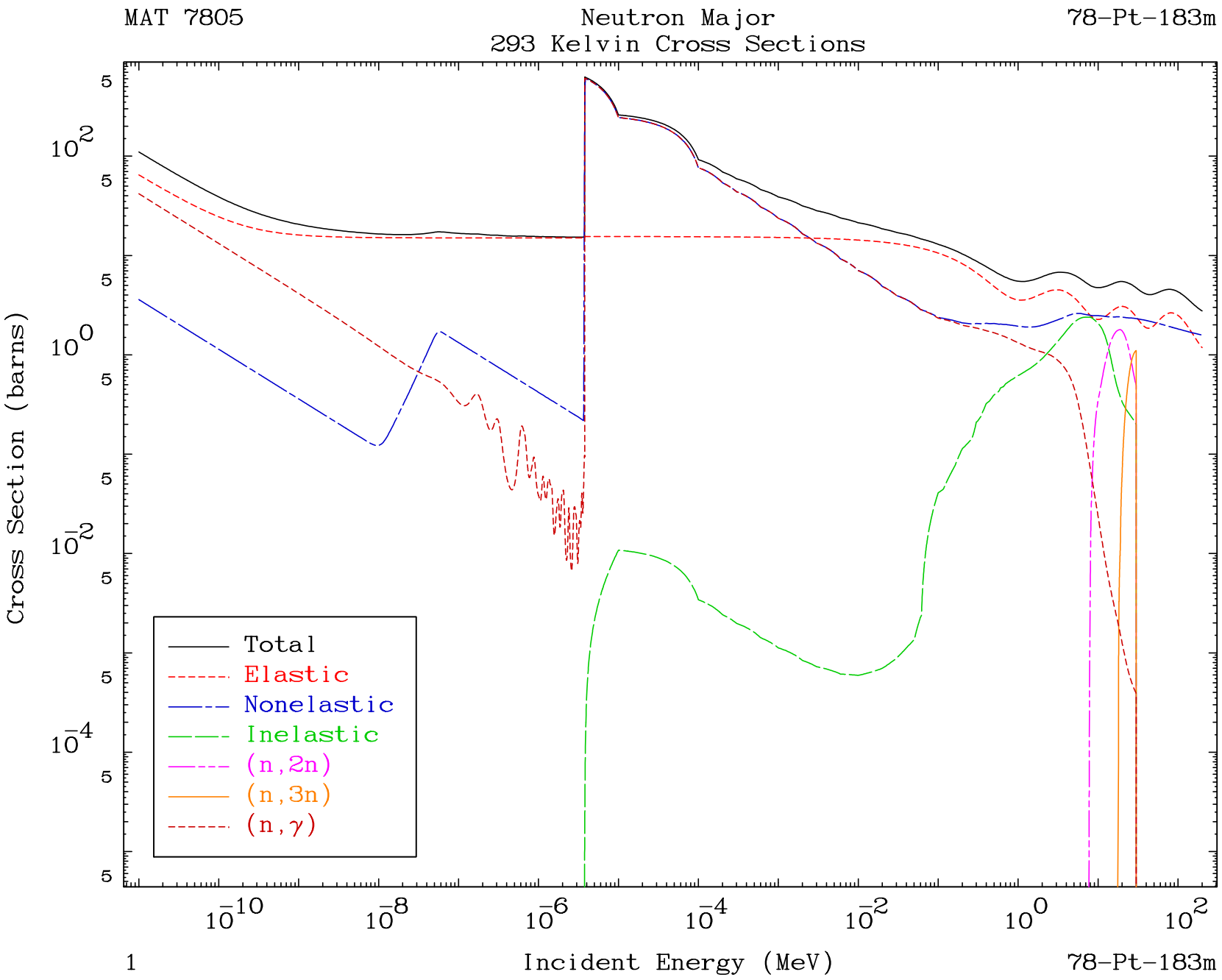
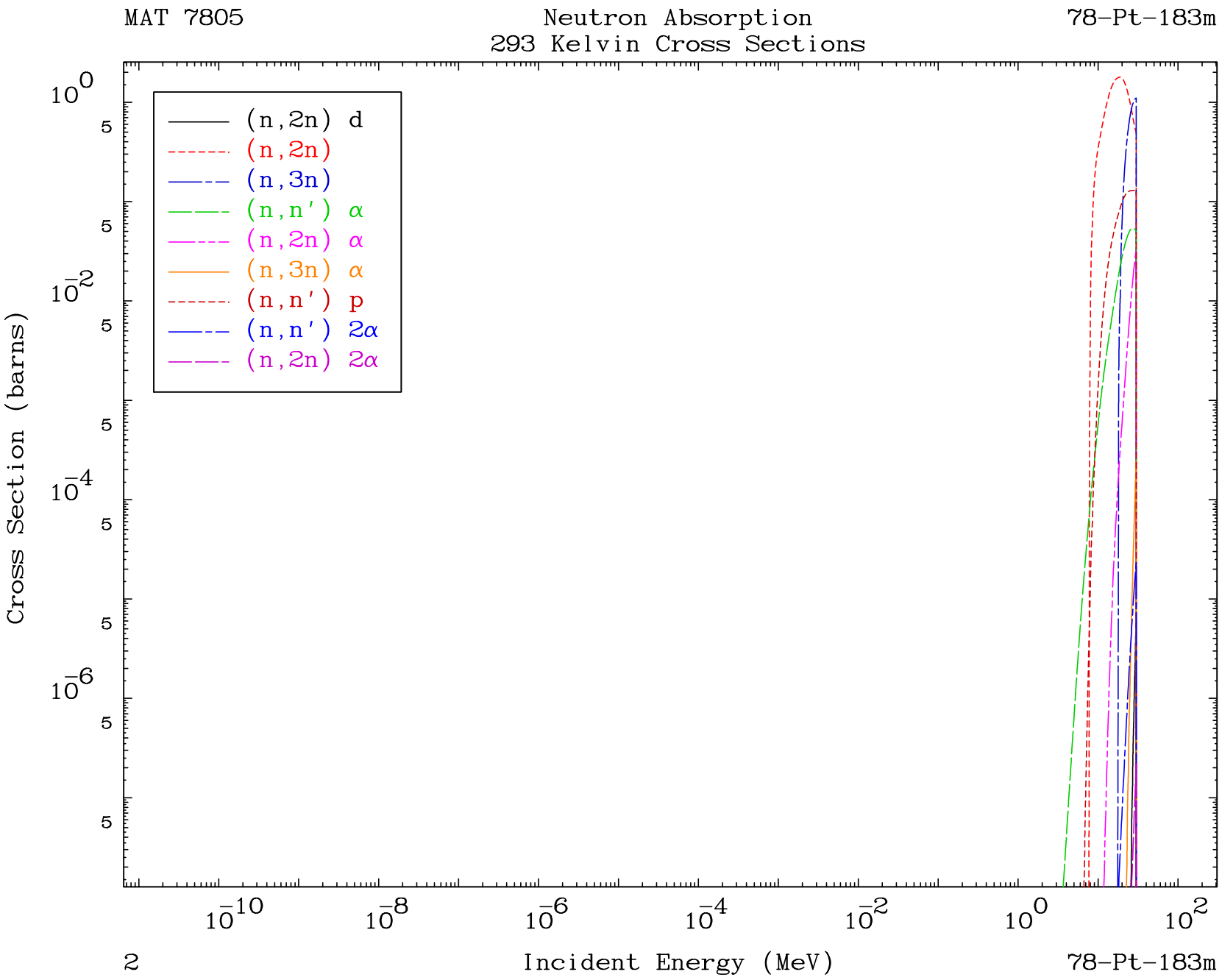
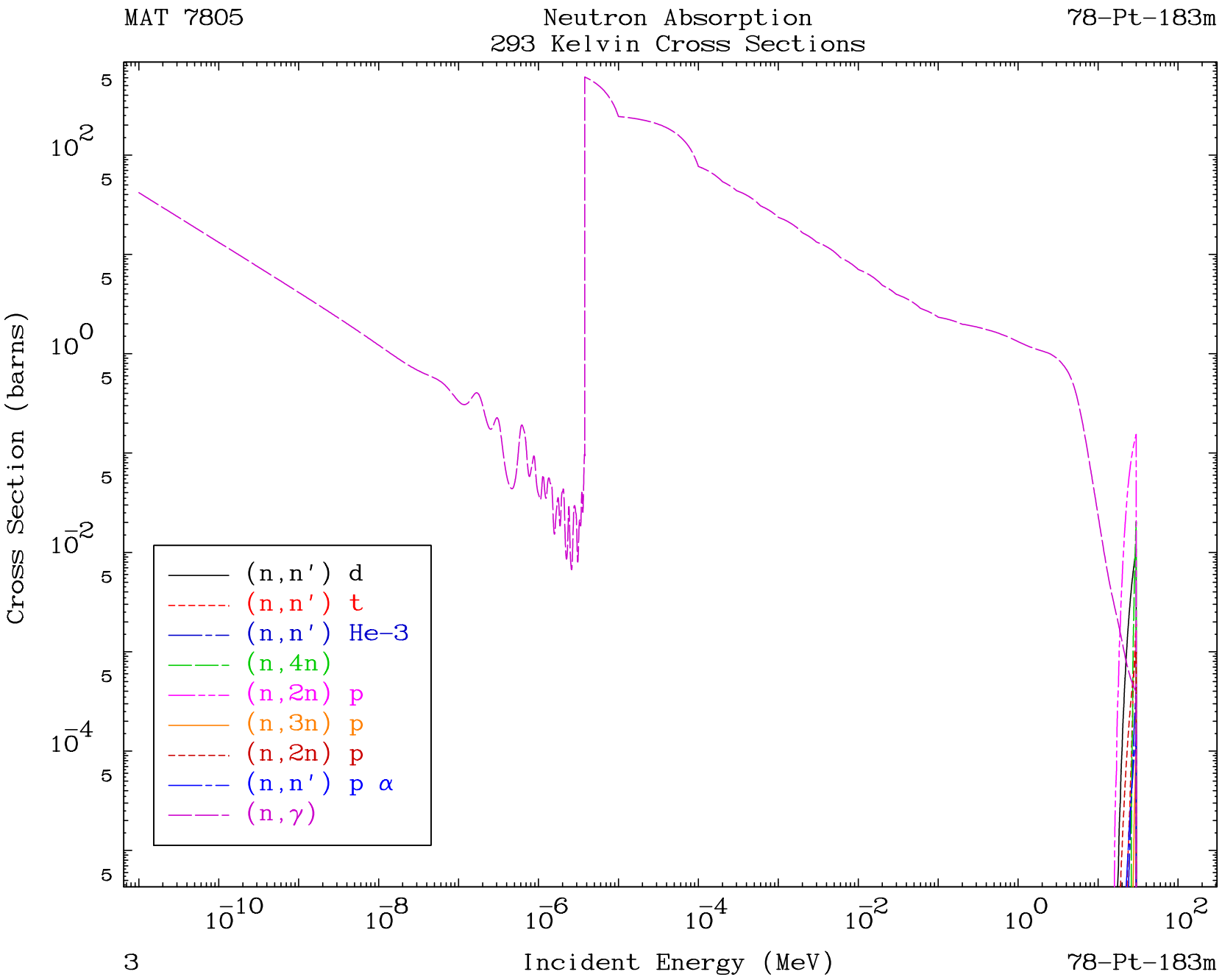
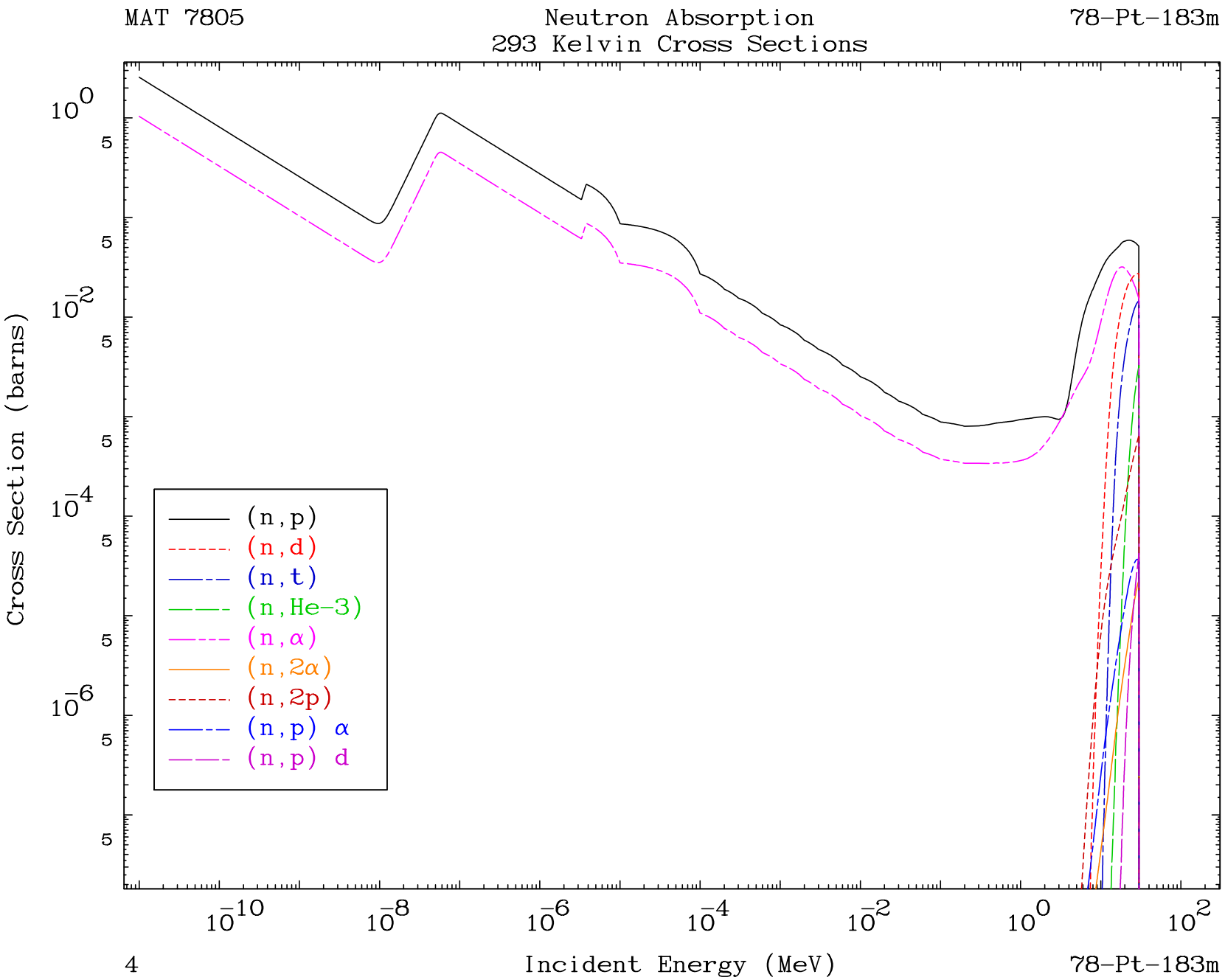
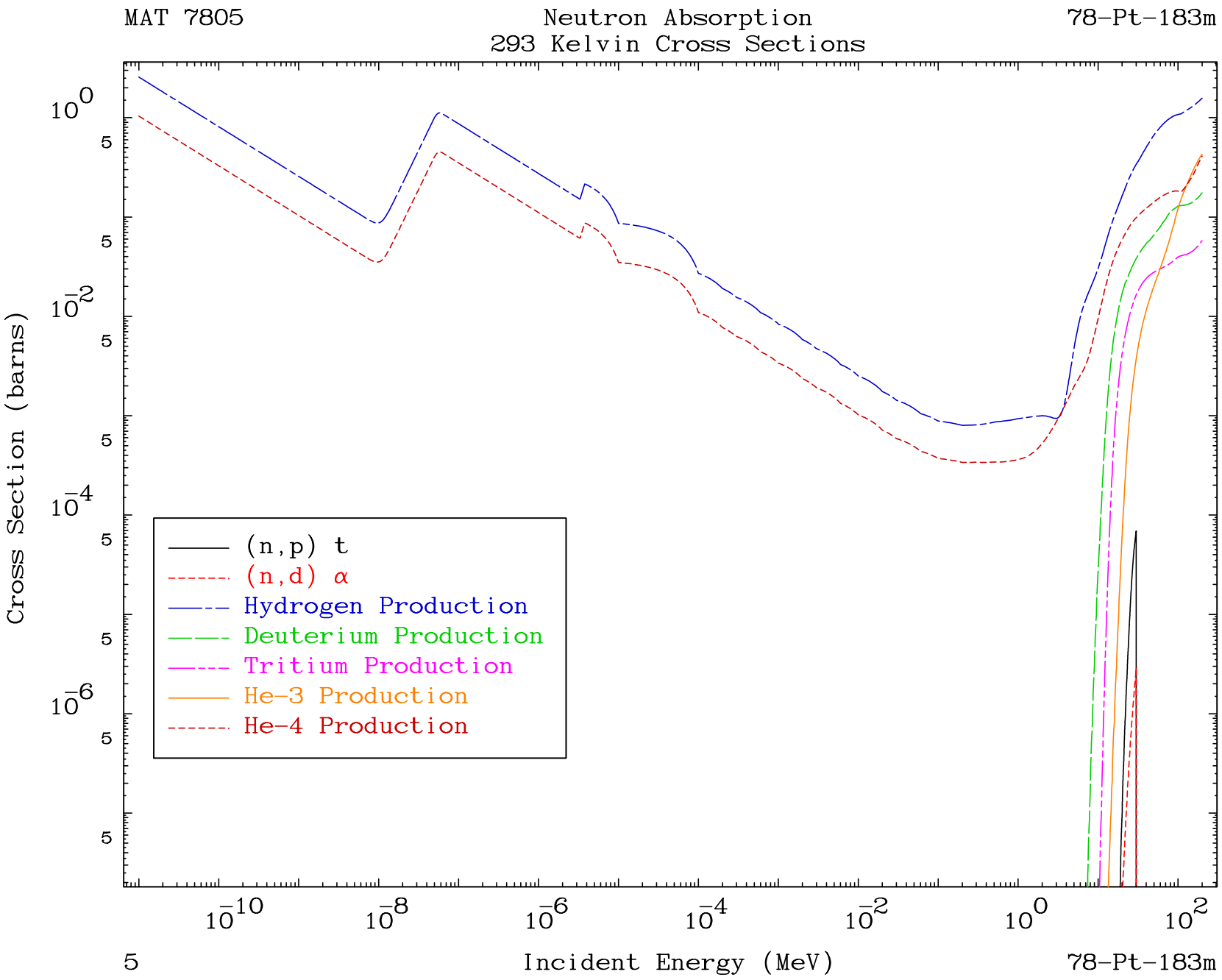
Press Mouse Button to Start

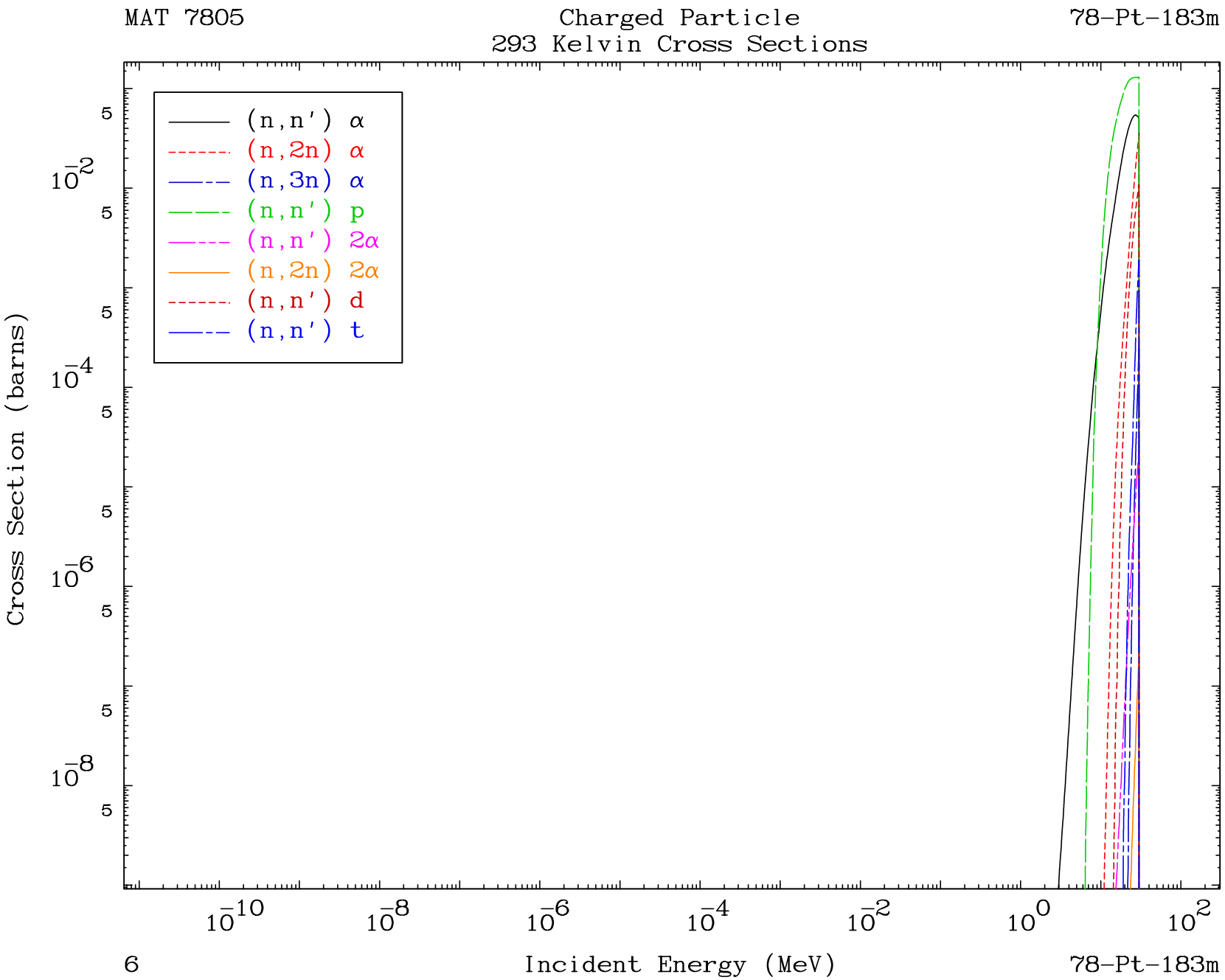

MAT 7805
Neutron Major
293 Kelvin Cross Sections
78-Pt-183m
Cross Section (barns)
Incident Energy (MeV)
Total
Elastic
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)
1
78-Pt-183m

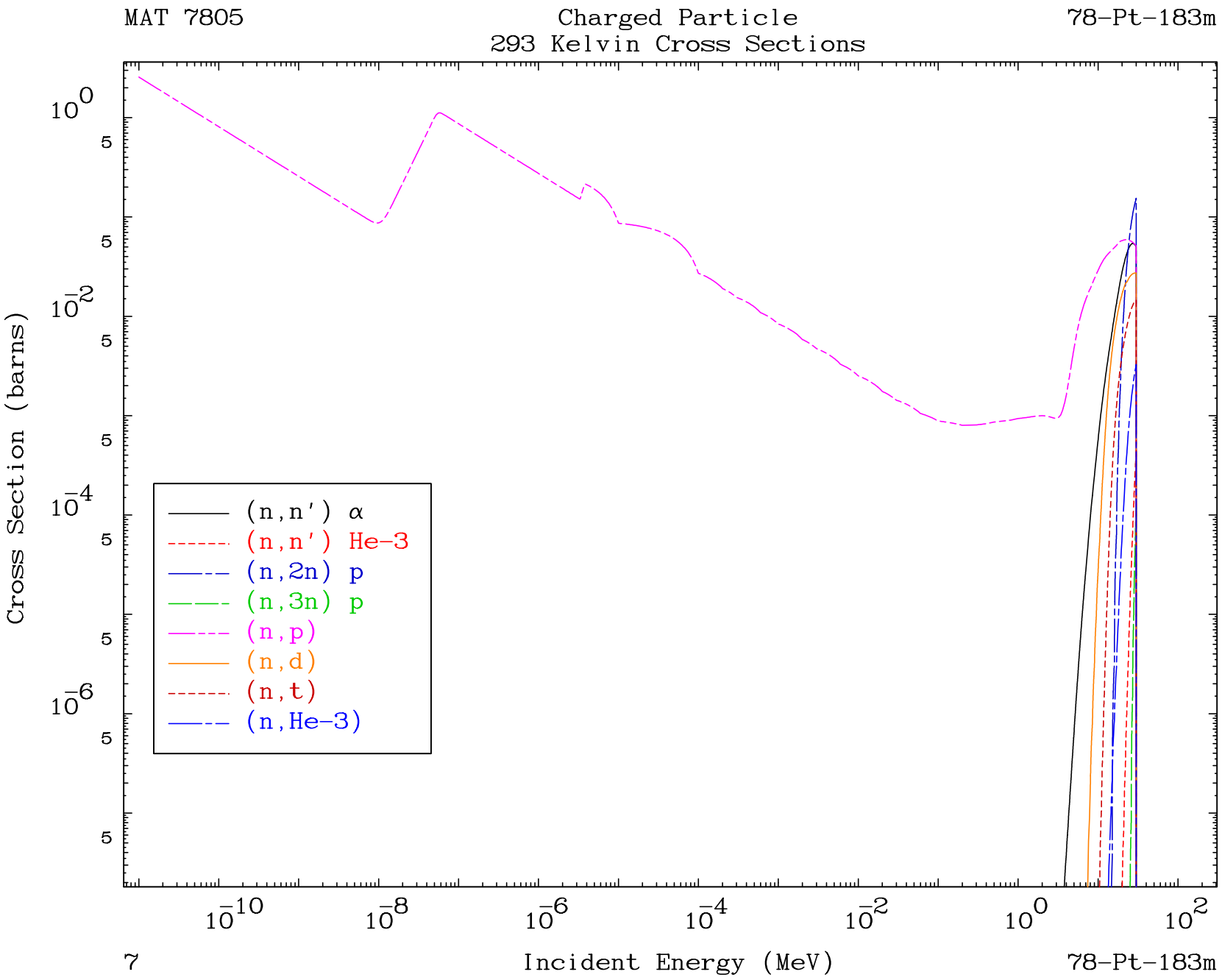

MAT 7805
Neutron Absorption
293 Kelvin Cross Sections
78-Pt-183m
(n,2n) d
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,2n) 2α
Cross Section (barns)
Incident Energy (MeV)
2
78-Pt-183m

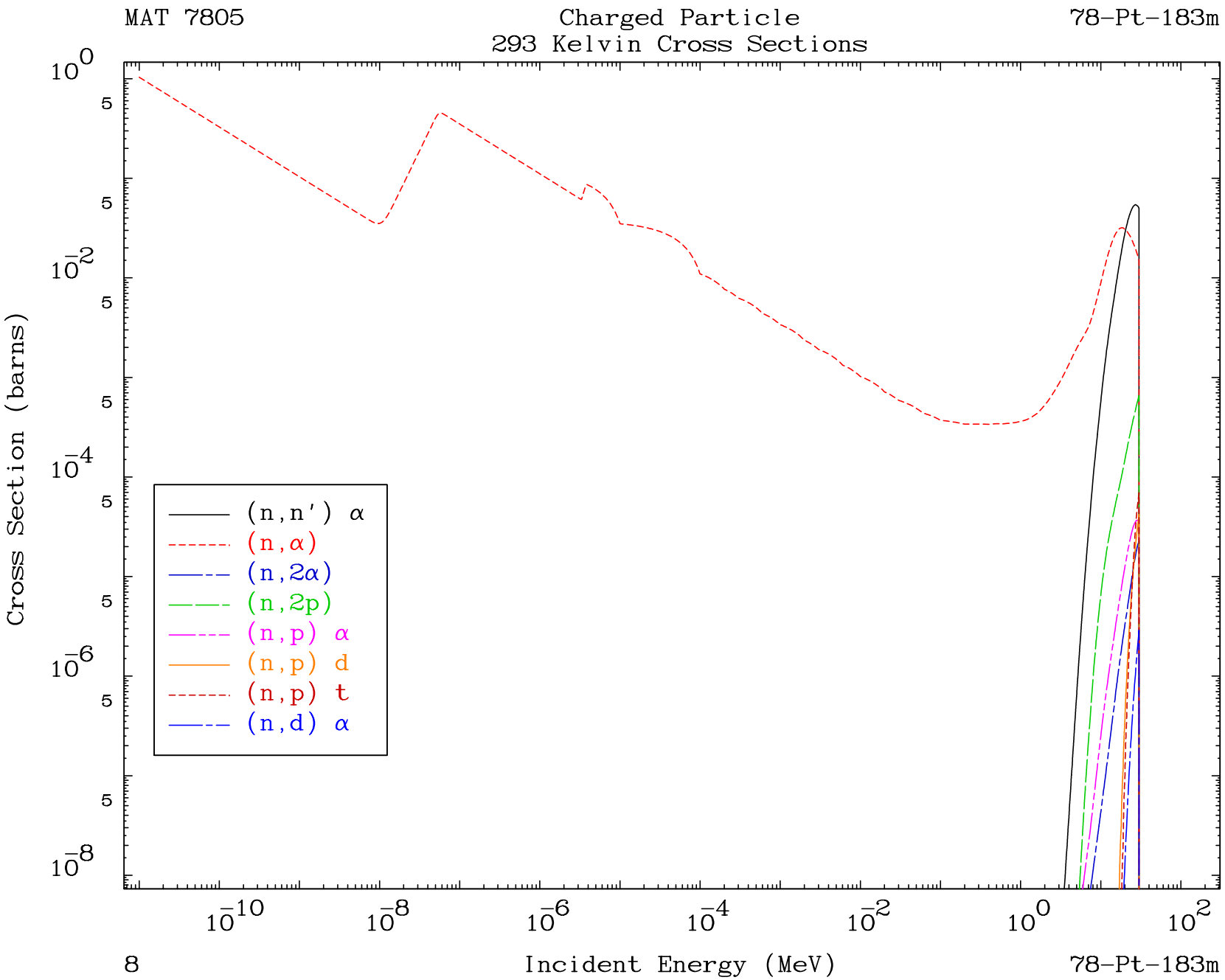

MAT 7805
Neutron Absorption
293 Kelvin Cross Sections
78-Pt-183m
Cross Section (barns)
Incident Energy (MeV)
(n,n') d
(n,n') t
(n,n') He-3
(n,4n)
(n,2n) p
(n,3n) p
(n,2n) p
(n,n') p α
(n,γ)
3
78-Pt-183m

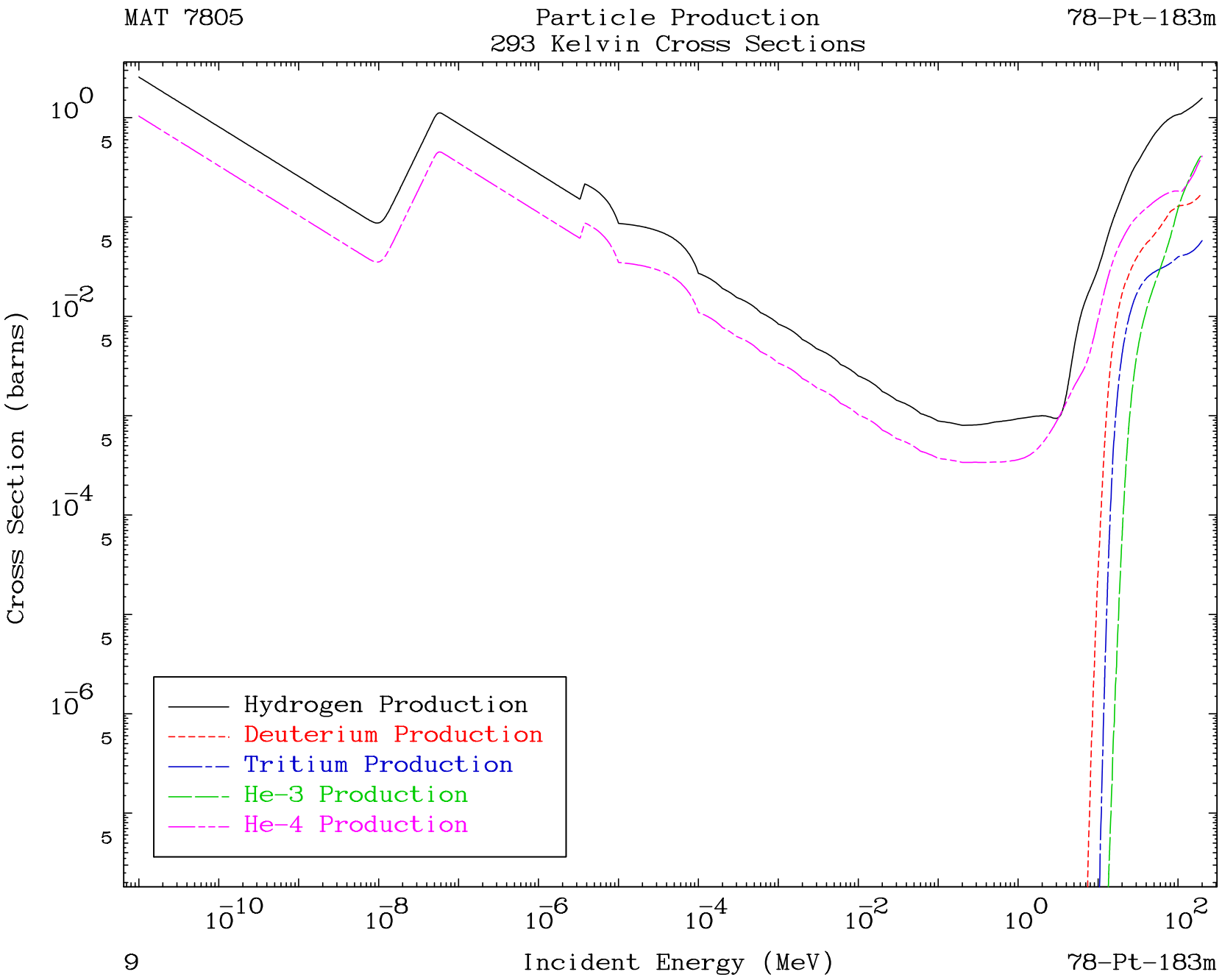

MAT 7805
Neutron Absorption
293 Kelvin Cross Sections
78-Pt-183m
Cross Section (barns)
Incident Energy (MeV)
(n,p)
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
4
78-Pt-183m

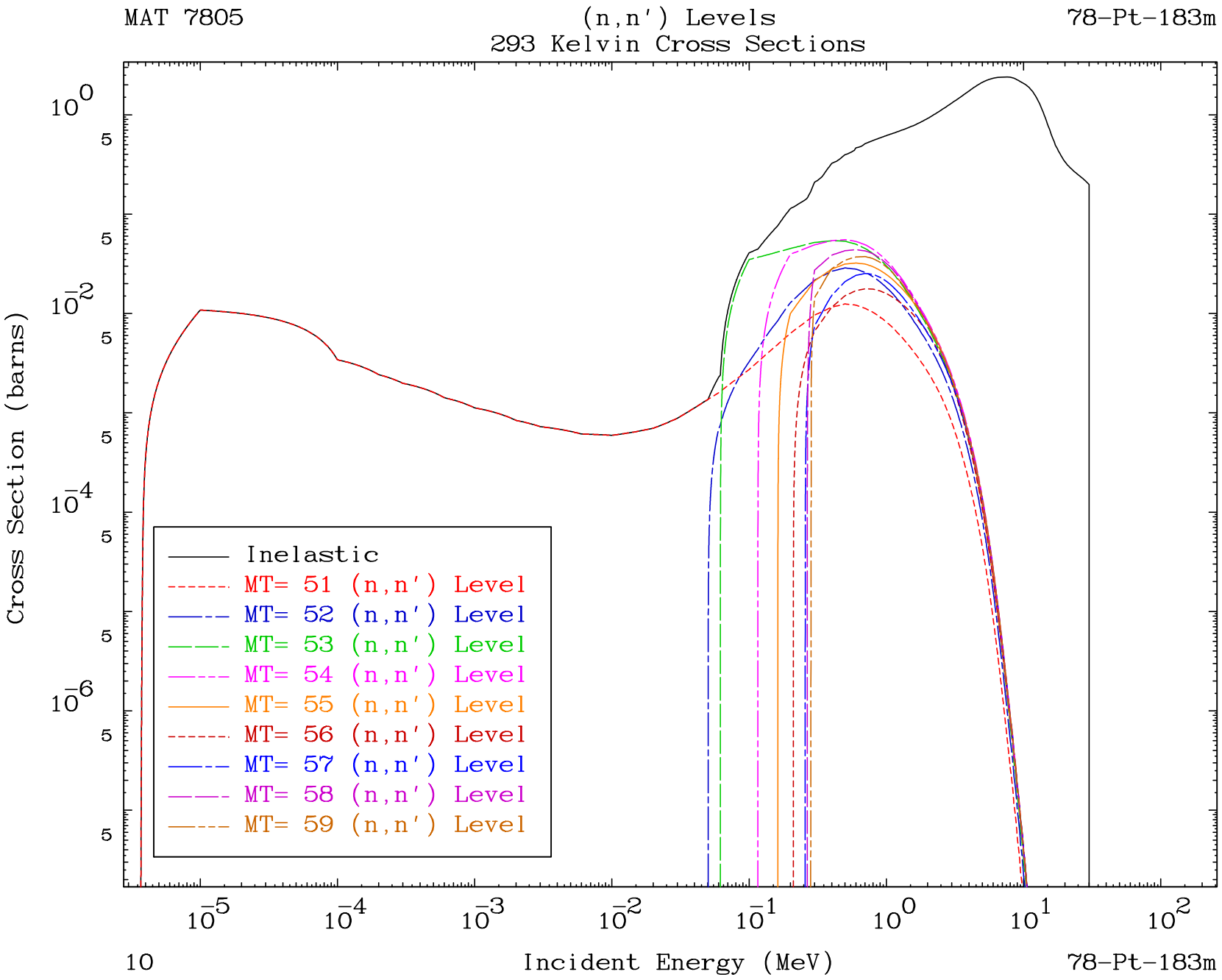

MAT 7805
Neutron Absorption
293 Kelvin Cross Sections
78-Pt-183m
Cross Section (barns)
Incident Energy (MeV)
(n,p) t
(n,d) α
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production
5
78-Pt-183m

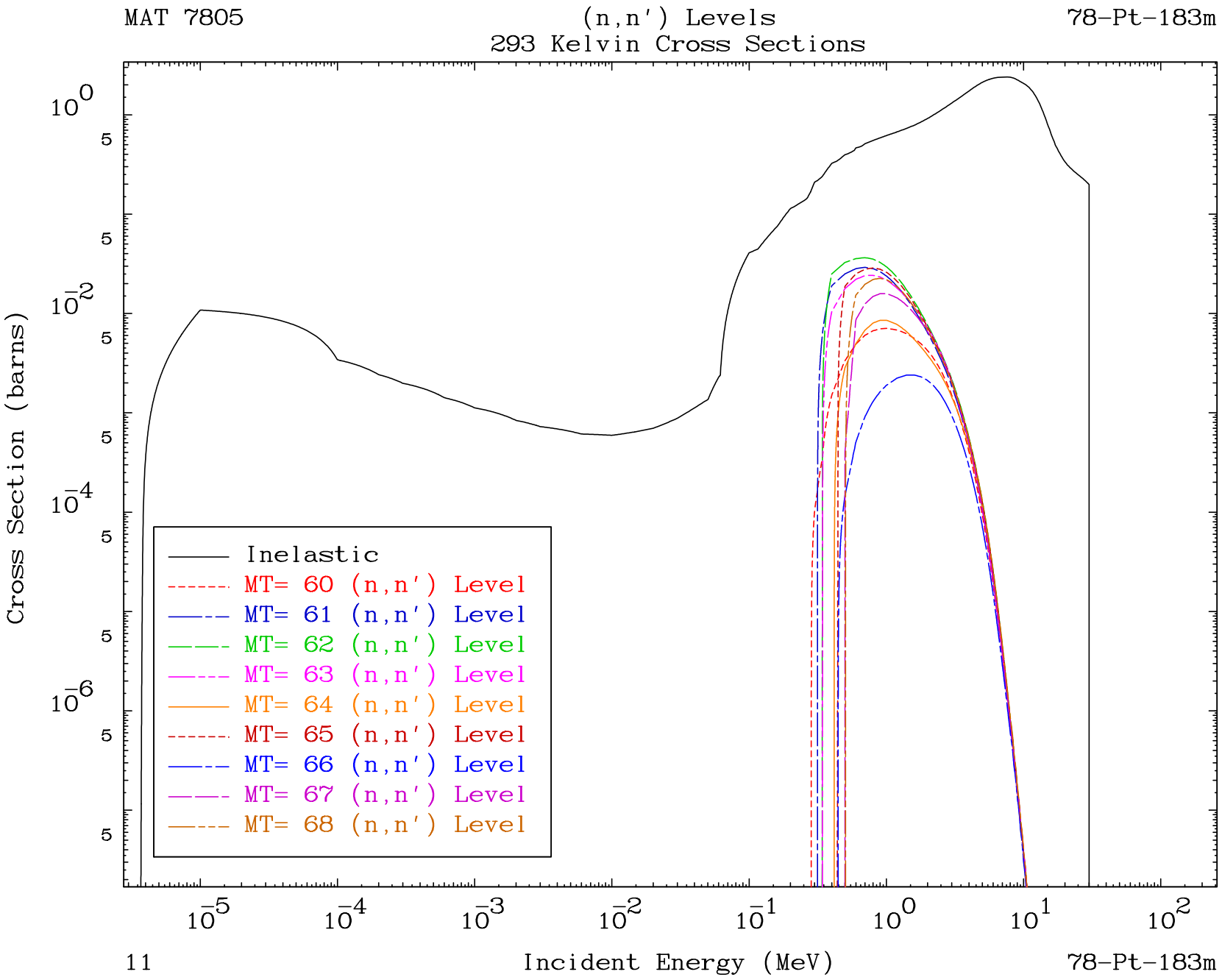

MAT 7805
Charged Particle
293 Kelvin Cross Sections
78-Pt-183m
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,2n) 2α
(n,n') d
(n,n') t
Cross Section (barns)
Incident Energy (MeV)
6
78-Pt-183m

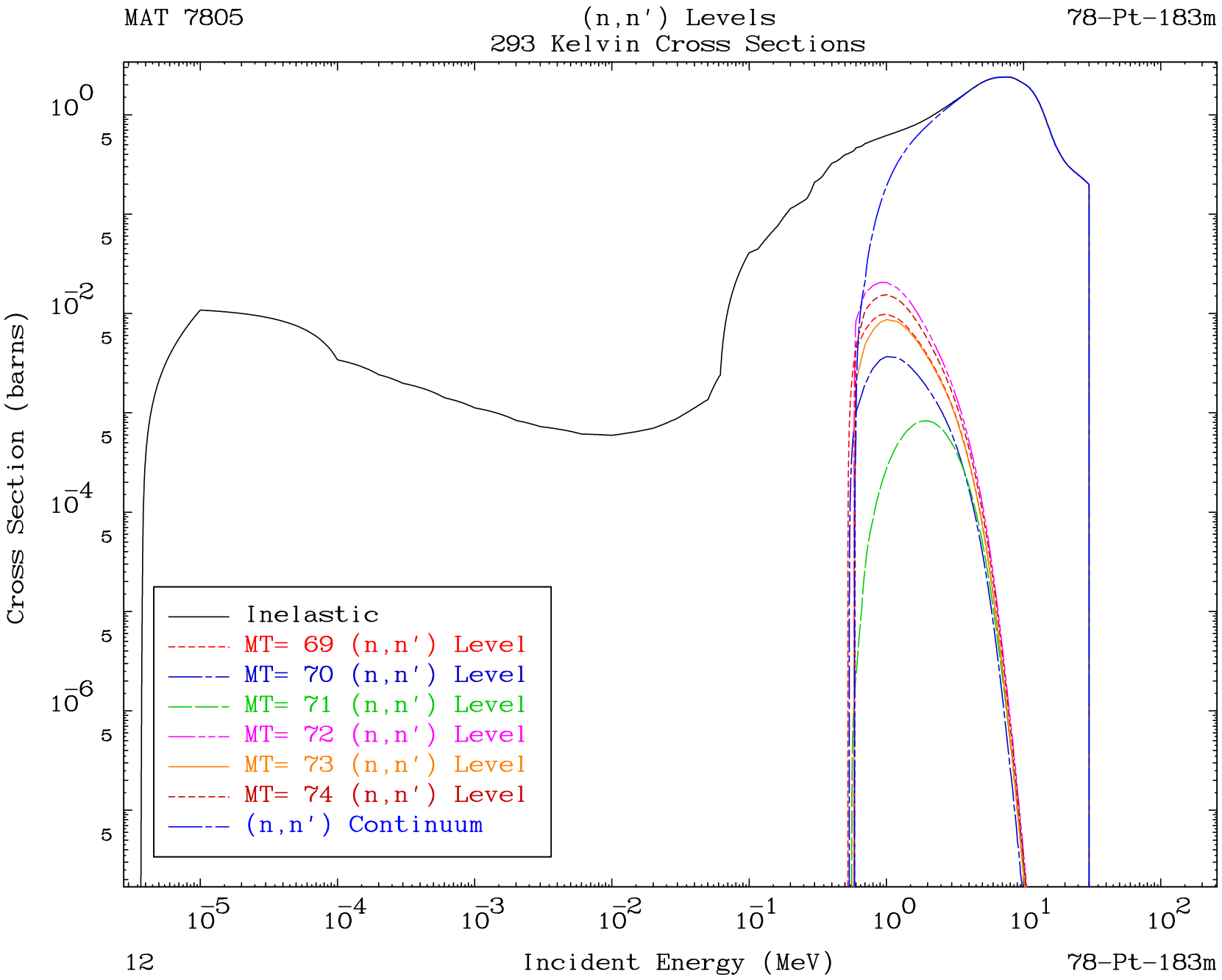

MAT 7805
Charged Particle
293 Kelvin Cross Sections
78-Pt-183m
Cross Section (barns)
Incident Energy (MeV)
(n,n') α
(n,n') He-3
(n,2n) p
(n,3n) p
(n,p)
(n,d)
(n,t)
(n,He-3)
7
78-Pt-183m

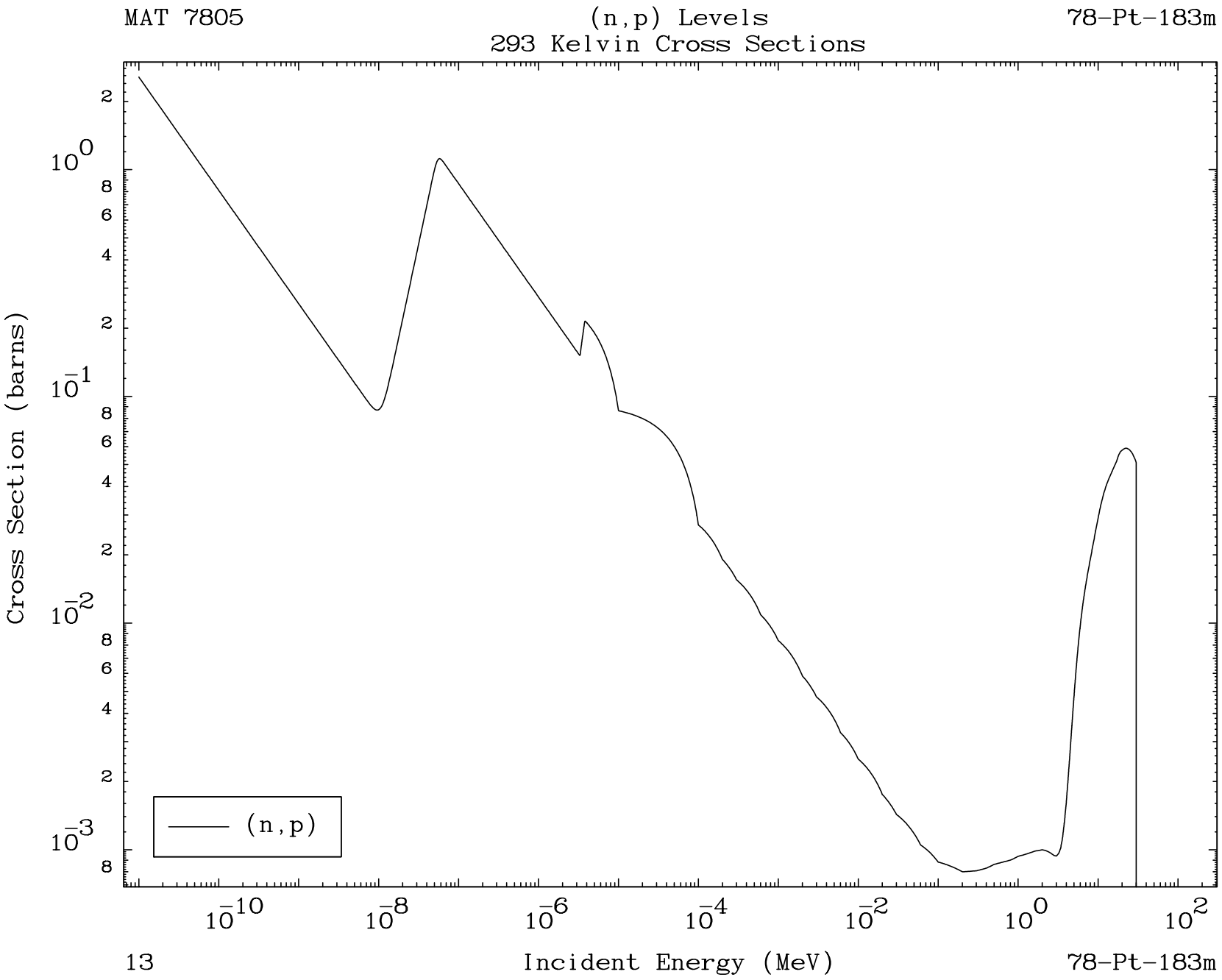

MAT 7805
Charged Particle
293 Kelvin Cross Sections
78-Pt-183m
Cross Section (barns)
Incident Energy (MeV)
(n,n') α
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
8
78-Pt-183m


MAT 7805
Particle Production
293 Kelvin Cross Sections
78-Pt-183m
Cross Section (barns)
Incident Energy (MeV)
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production
9
78-Pt-183m


MAT 7805
(n,n') Levels
293 Kelvin Cross Sections
78-Pt-183m
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
MT= 58 (n,n') Level
MT= 59 (n,n') Level
10
78-Pt-183m

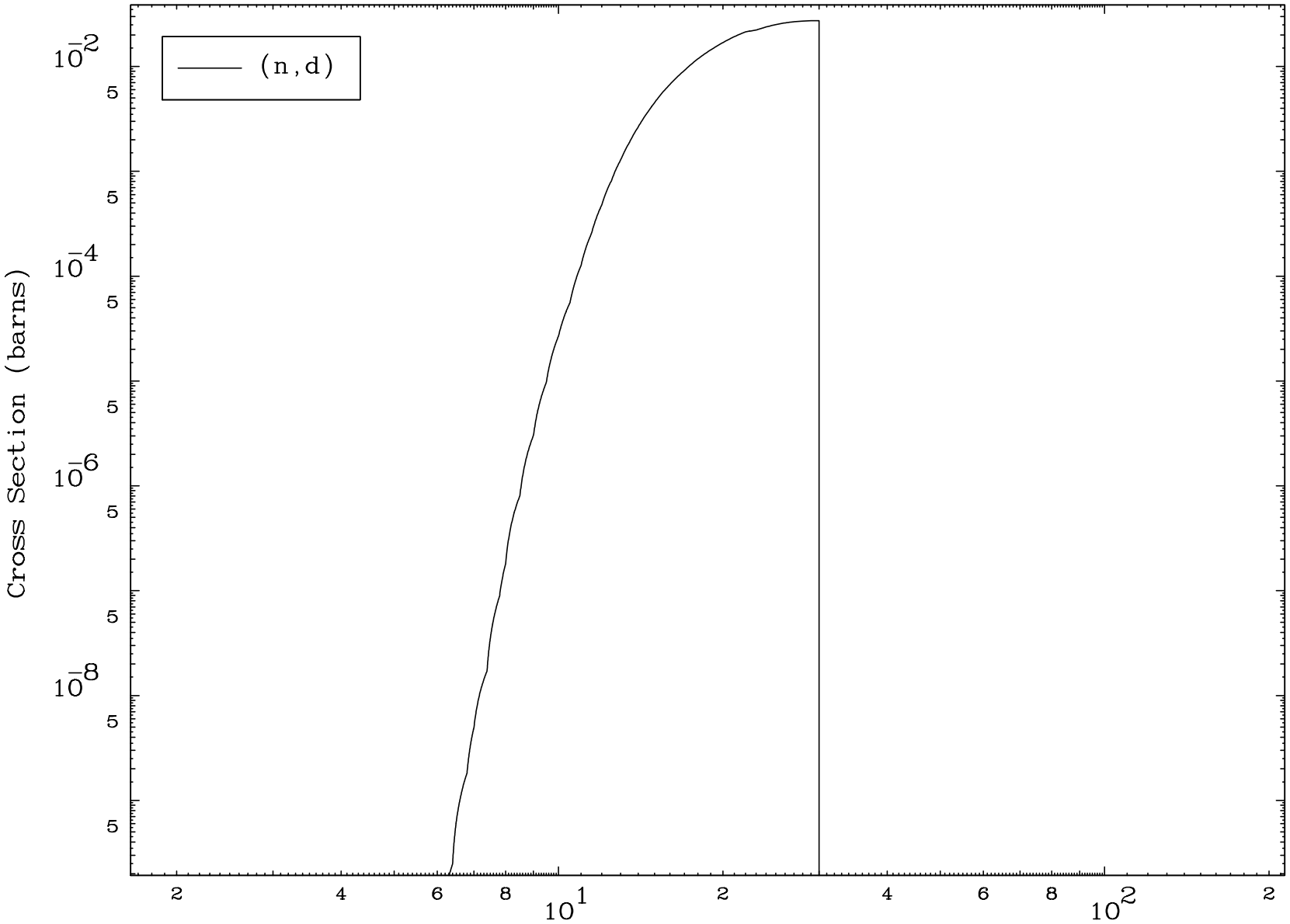

MAT 7805
(n,n') Levels
293 Kelvin Cross Sections
78-Pt-183m
Cross Section (barns)
Incident Energy (MeV)
Inelastic
MT= 60 (n,n') Level
MT= 61 (n,n') Level
MT= 62 (n,n') Level
MT= 63 (n,n') Level
MT= 64 (n,n') Level
MT= 65 (n,n') Level
MT= 66 (n,n') Level
MT= 67 (n,n') Level
MT= 68 (n,n') Level
11
78-Pt-183m


MAT 7805
(n,n') Levels
293 Kelvin Cross Sections
78-Pt-183m
Cross Section (barns)
Incident Energy (MeV)
Inelastic
MT= 69 (n,n') Level
MT= 70 (n,n') Level
MT= 71 (n,n') Level
MT= 72 (n,n') Level
MT= 73 (n,n') Level
MT= 74 (n,n') Level
(n,n') Continuum
12
78-Pt-183m


MAT 7805
(n,p) Levels
293 Kelvin Cross Sections
78-Pt-183m
Cross Section (barns)
Incident Energy (MeV)
(n,p)
13
78-Pt-183m

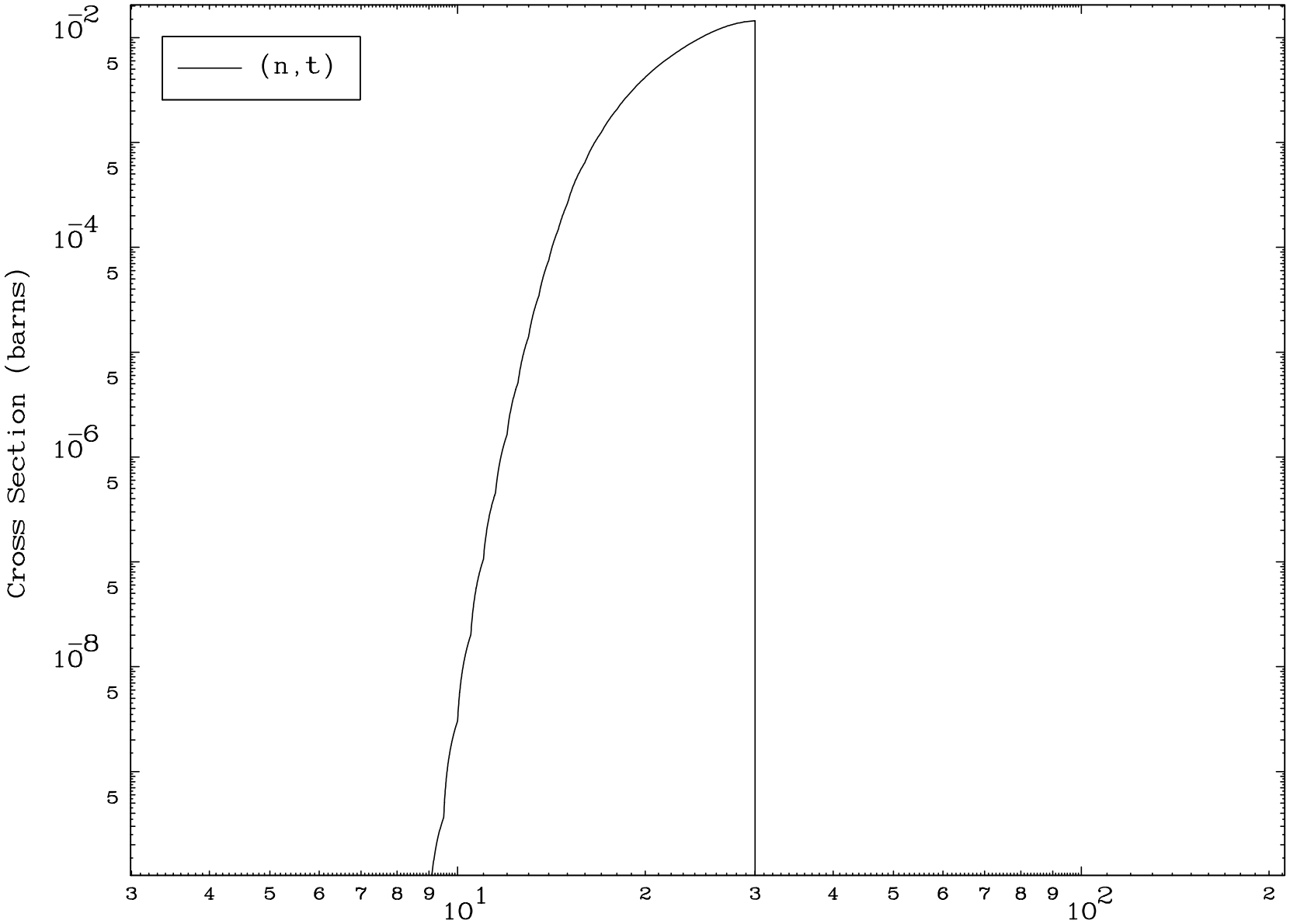
(n,d) Levels
293 Kelvin Cross Sections





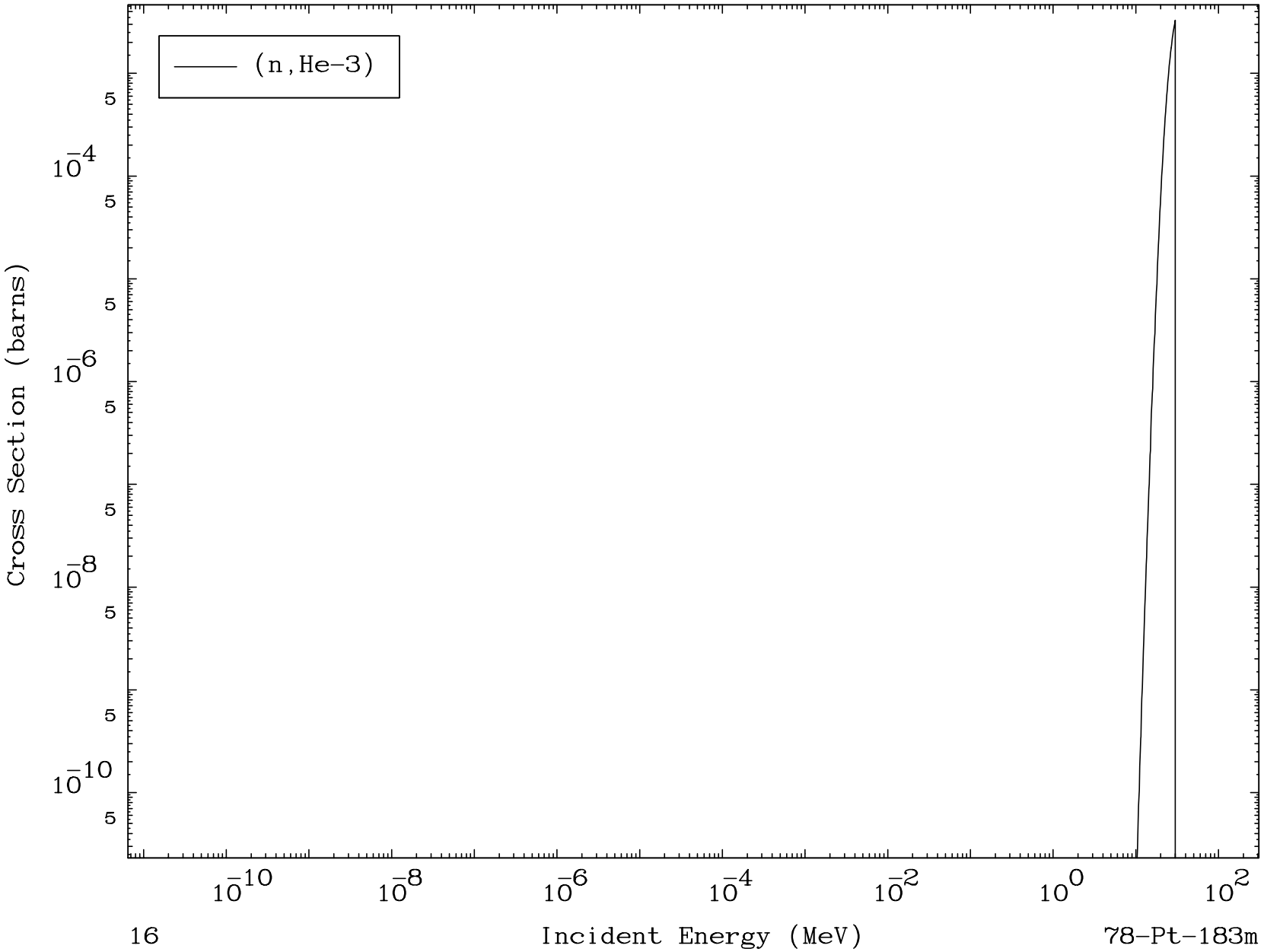
(n,t) Levels
293 Kelvin Cross Sections

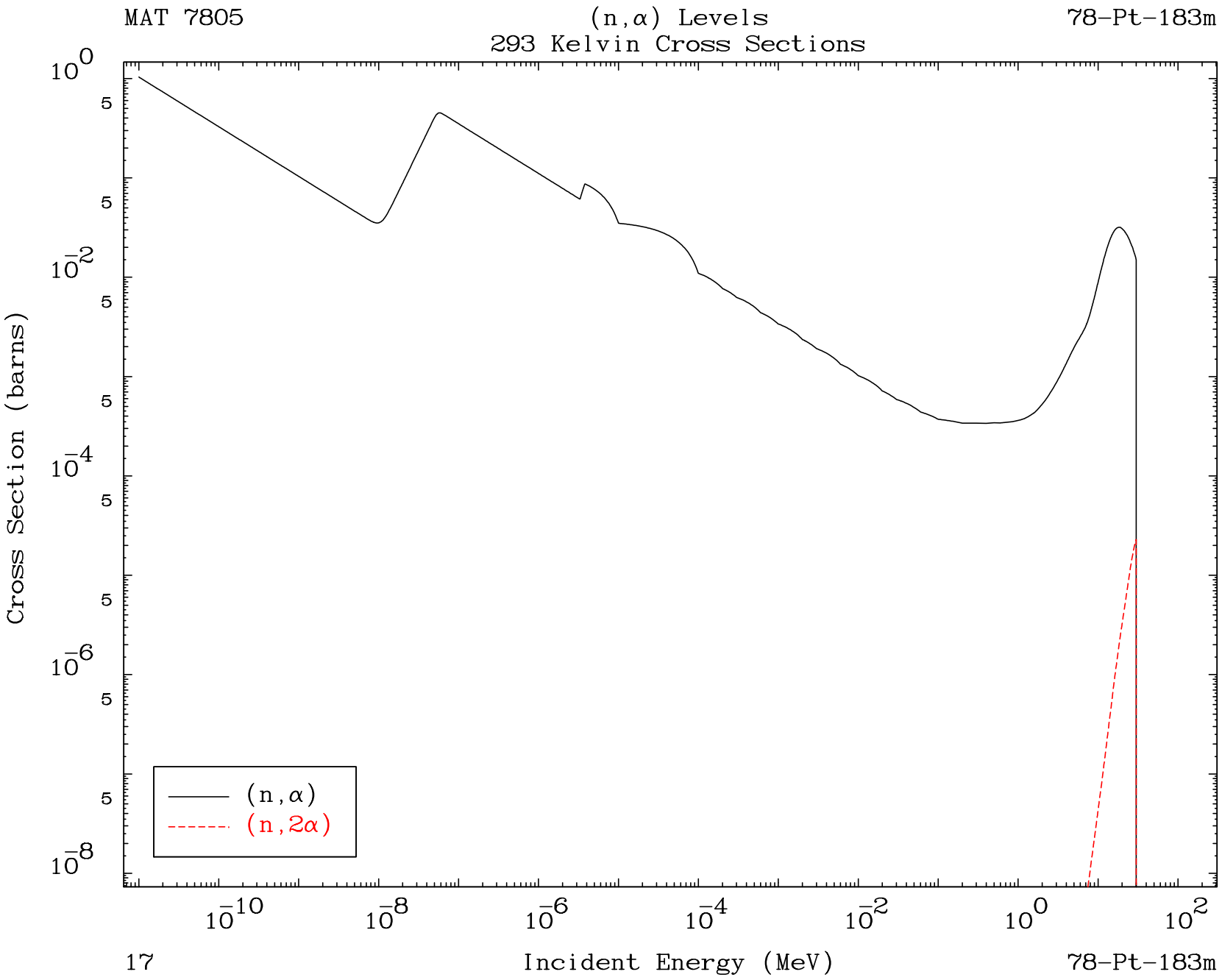


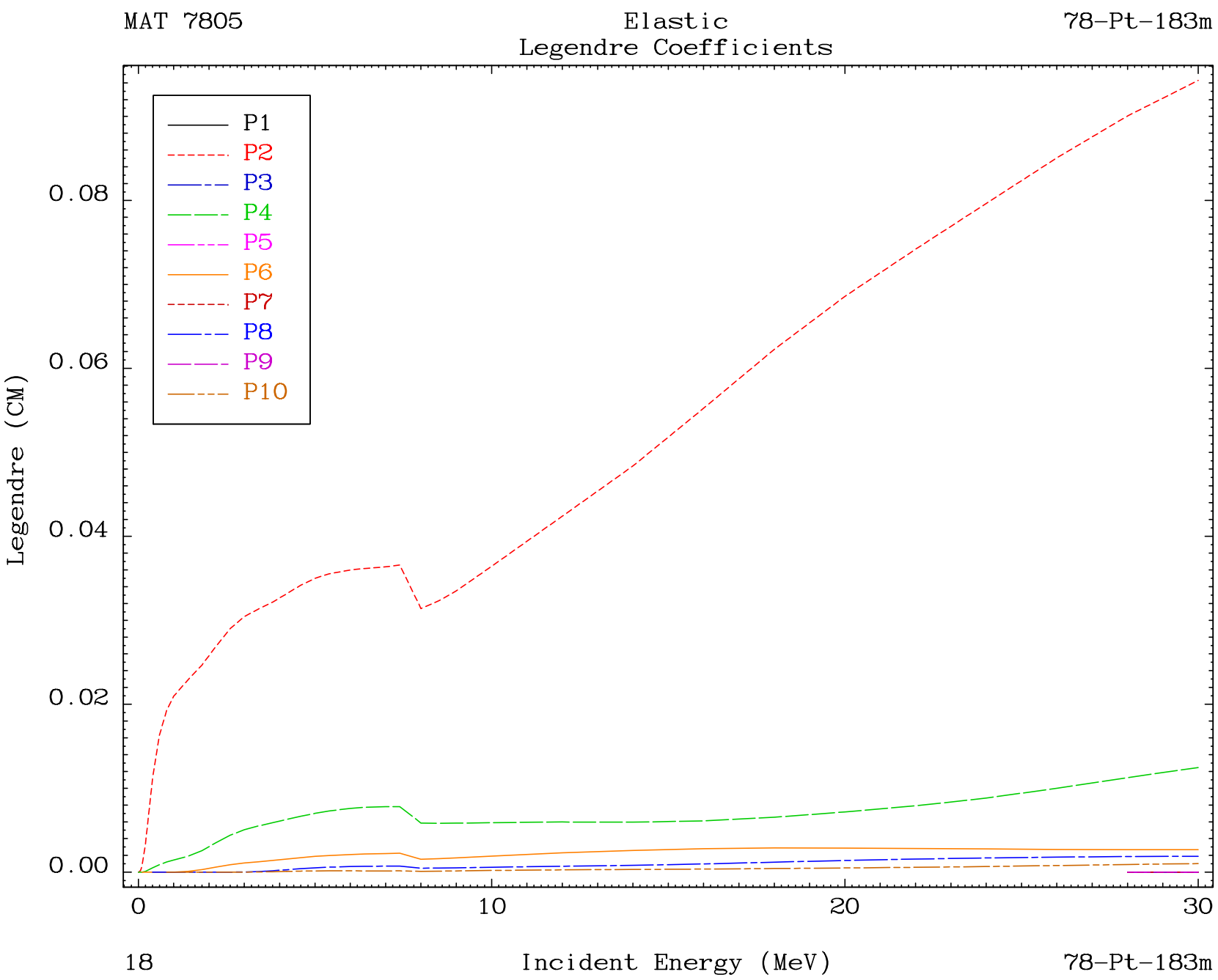


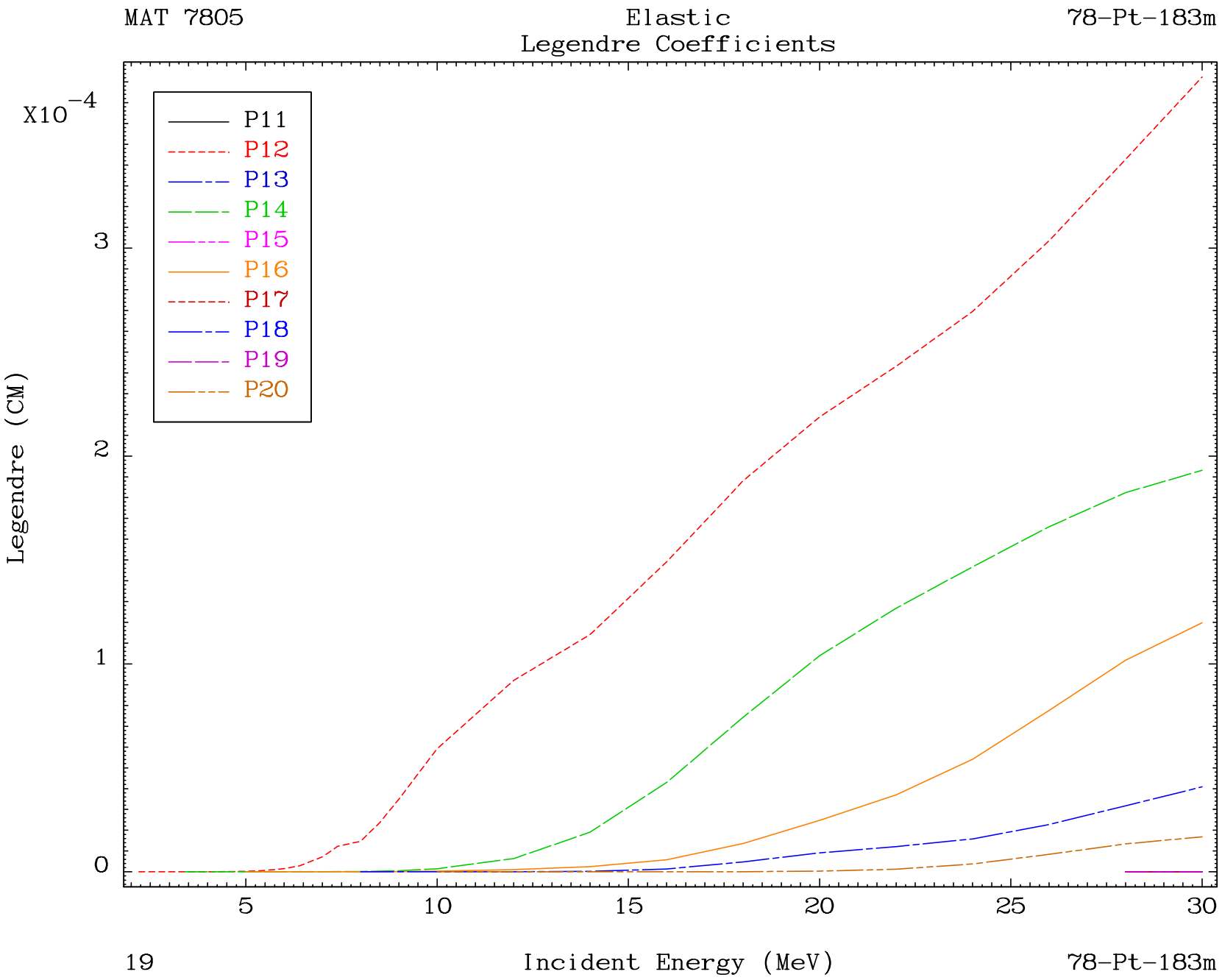
(n,He3) Levels
293 Kelvin Cross Sections

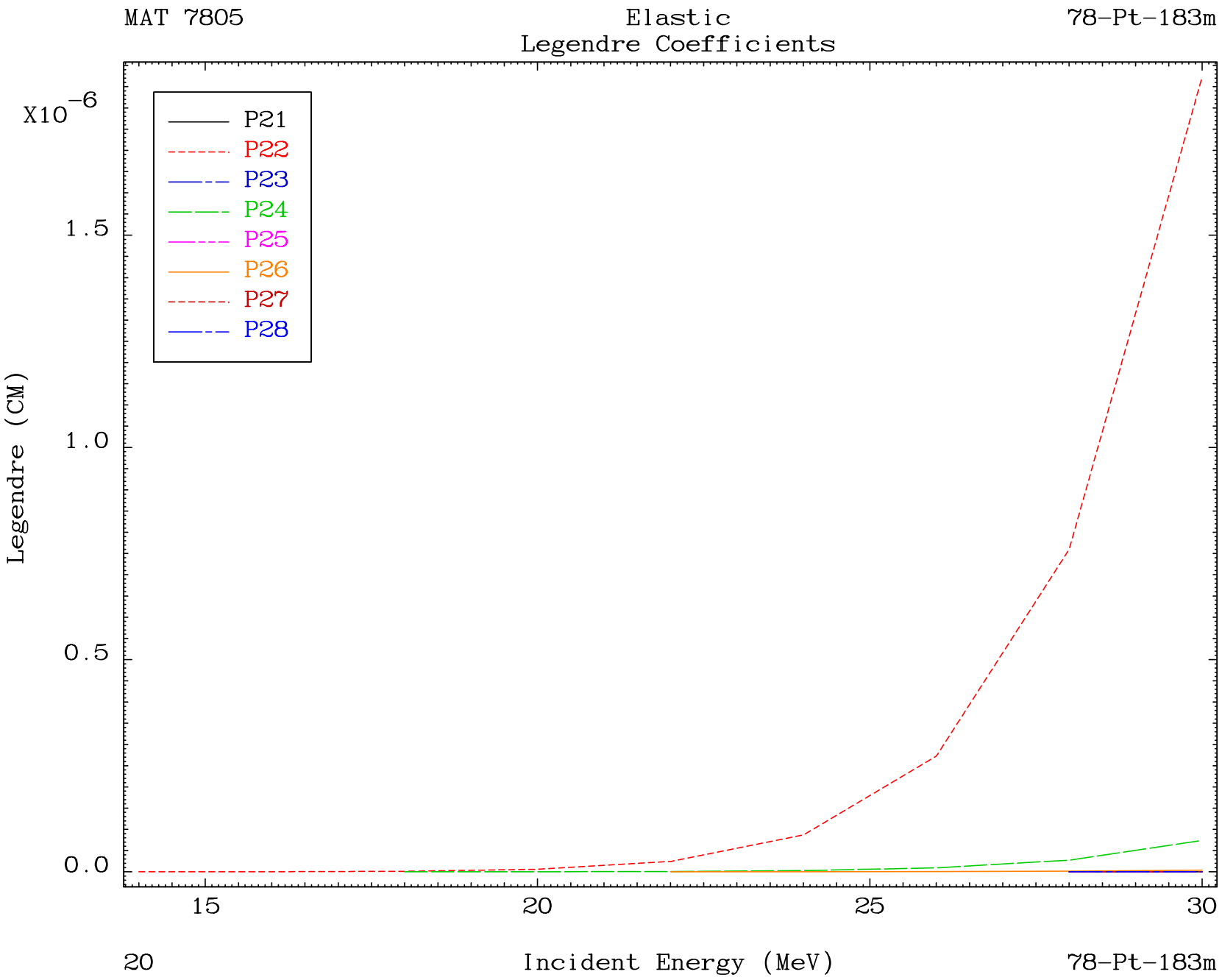


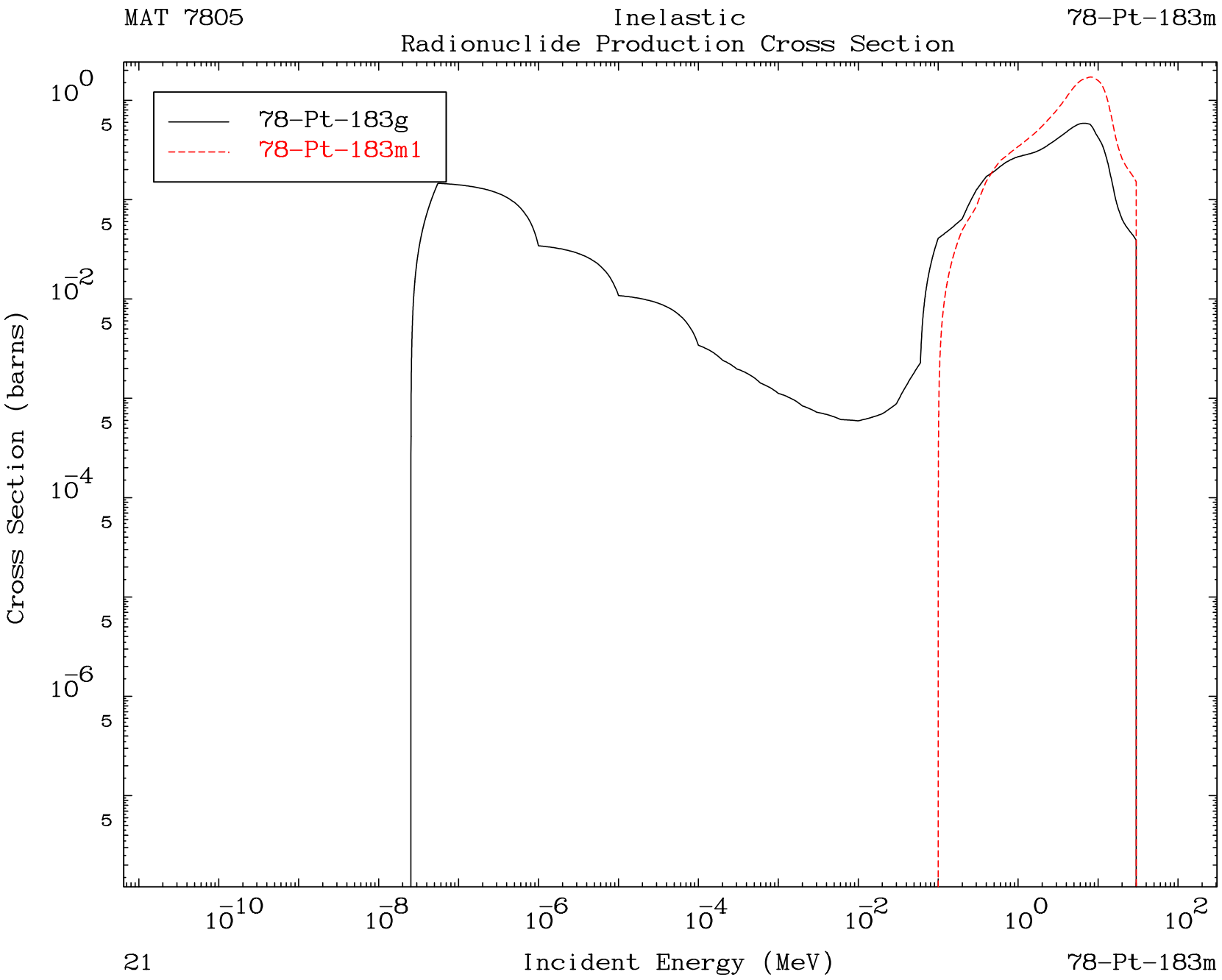


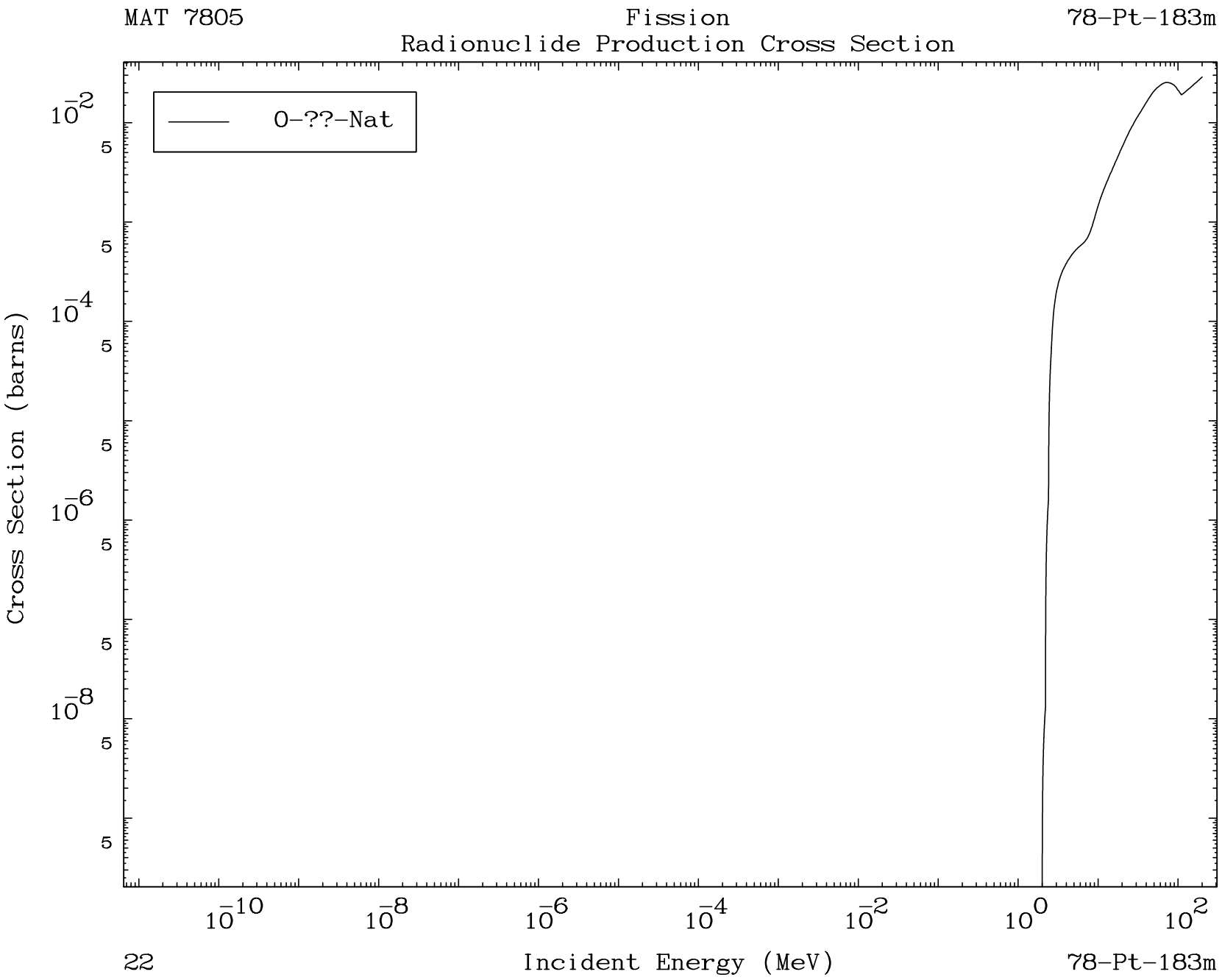

MAT 7805
(n,α) Levels
293 Kelvin Cross Sections
78-Pt-183m
Cross Section (barns)
Incident Energy (MeV)
(n,α)
(n,2α)
17
78-Pt-183m

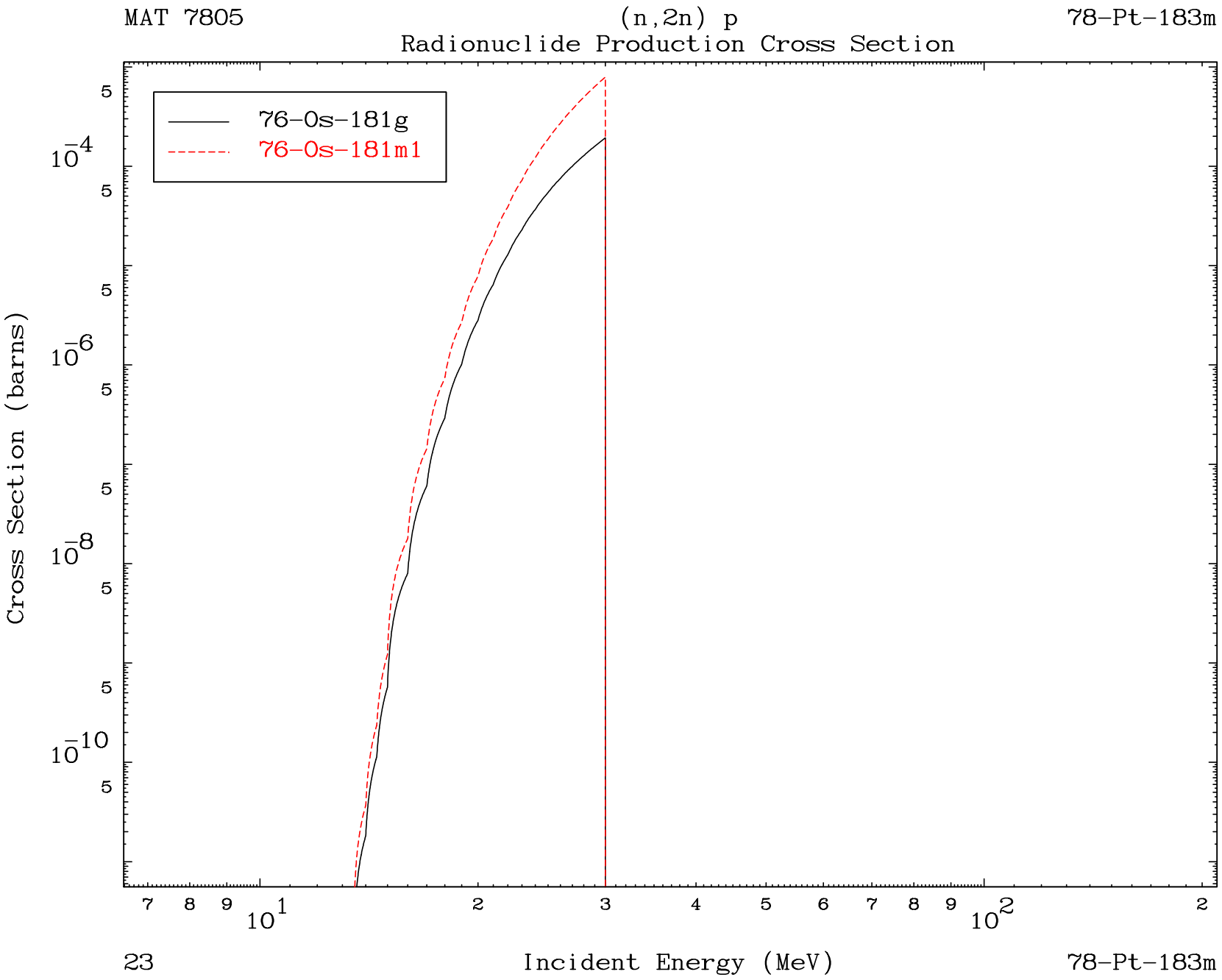

MAT 7805
Elastic
Legendre Coefficients
78-Pt-183m
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
0.08
0.06
0.04
0.02
0.00
Legendre (CM)
0
10
20
30
18
Incident Energy (MeV)
78-Pt-183m

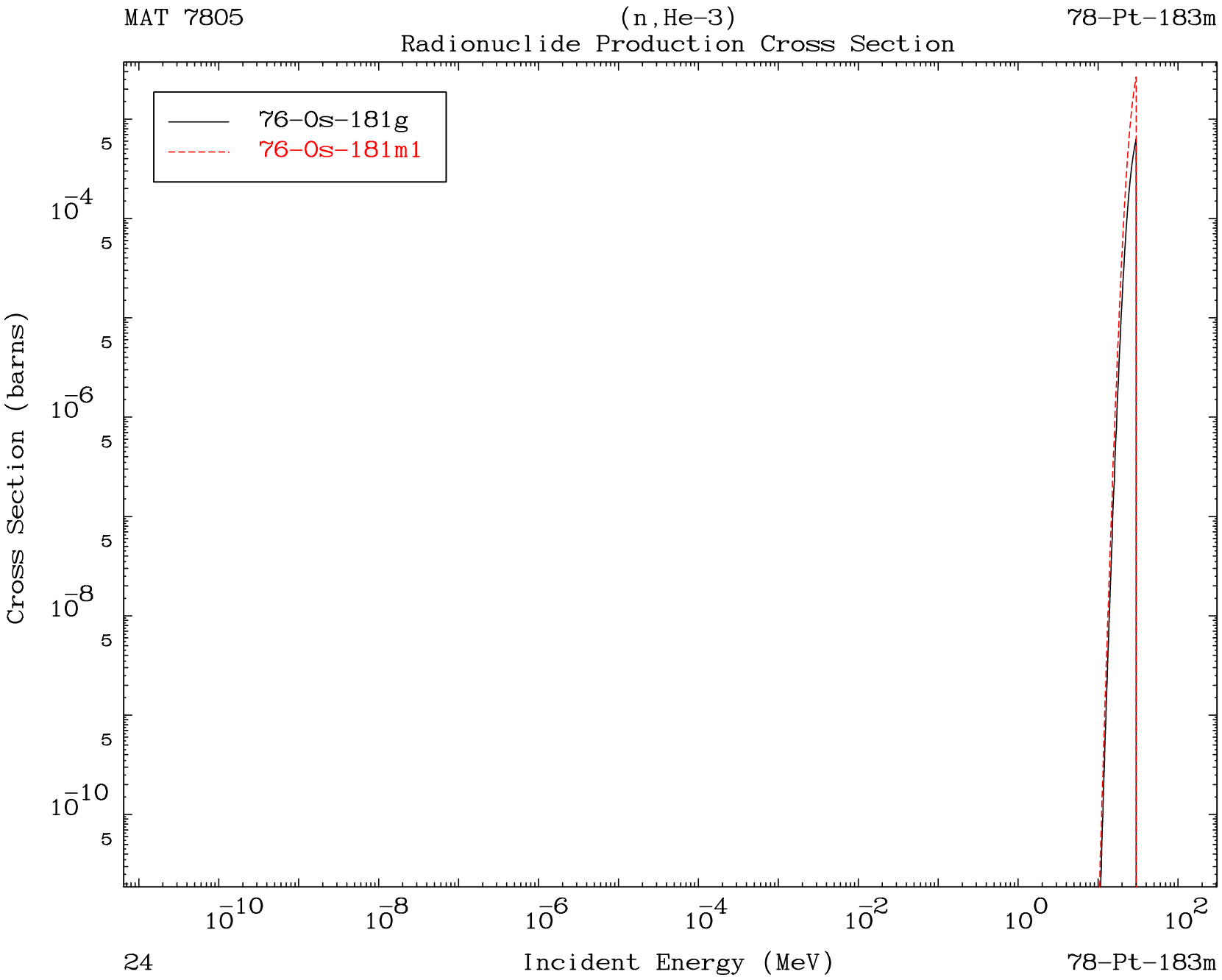
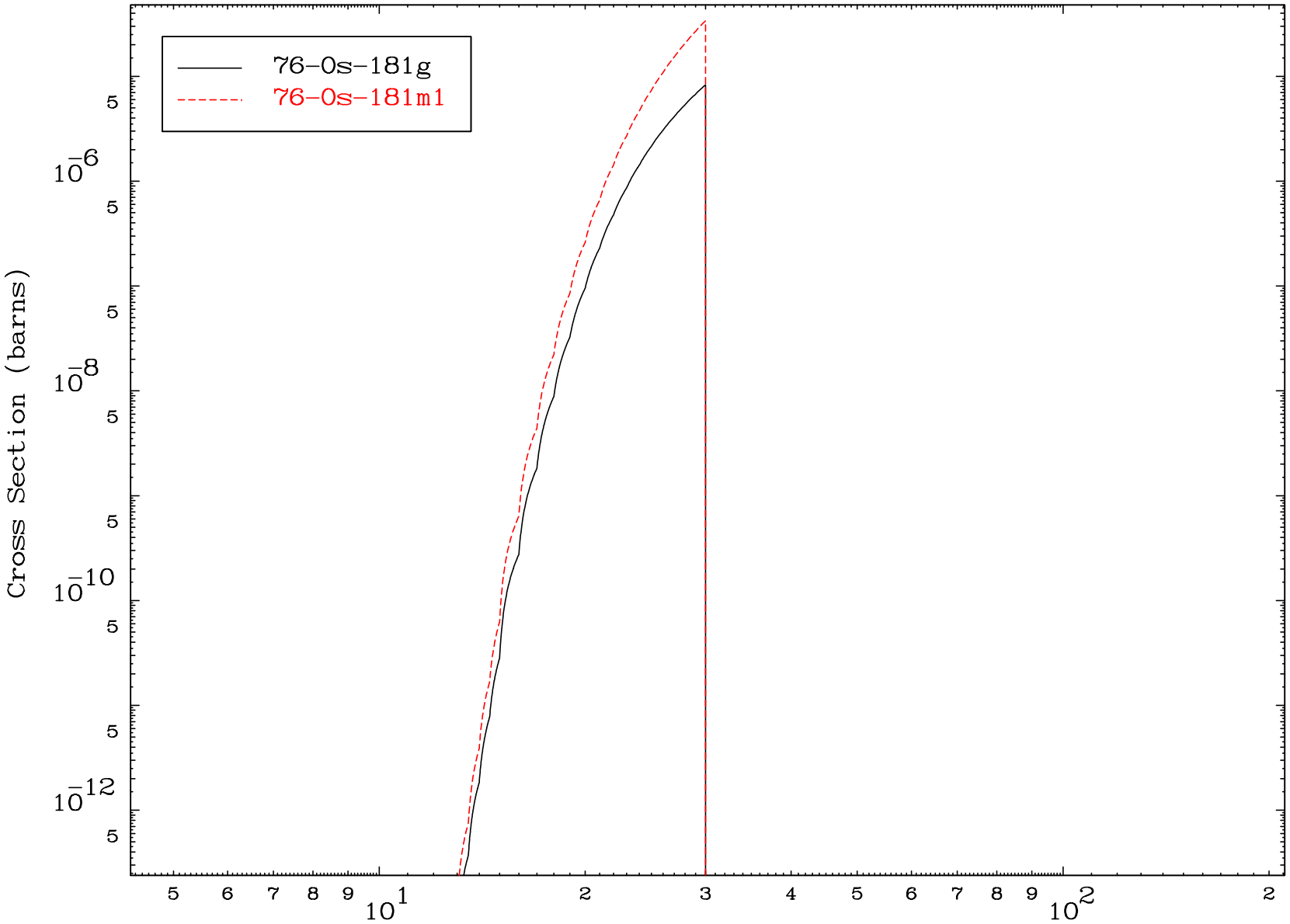

MAT 7805
Elastic
Legendre Coefficients
78-Pt-183m
X10^-4
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
Legendre (CM)
0
1
2
3
5
10
15
20
25
30
19
Incident Energy (MeV)
78-Pt-183m


MAT 7805
Elastic
Legendre Coefficients
78-Pt-183m
X10^-6
1.5
1.0
0.5
0.0
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
15
20
25
30
20
Incident Energy (MeV)
78-Pt-183m


MAT 7805
Inelastic
Radionuclide Production Cross Section
78-Pt-183m
78-Pt-183g
78-Pt-183m1
Cross Section (barns)
Incident Energy (MeV)
21
78-Pt-183m


MAT 7805
Fission
78-Pt-183m
Radionuclide Production Cross Section
0-??-Nat
Cross Section (barns)
Incident Energy (MeV)
22
78-Pt-183m


MAT 7805
(n,2n) p
78-Pt-183m
Radionuclide Production Cross Section
76-Os-181g
76-Os-181m1
Cross Section (barns)
Incident Energy (MeV)
23
78-Pt-183m


MAT 7805
(n,He-3)
78-Pt-183m
Radionuclide Production Cross Section
76-Os-181g
76-Os-181m1
Cross Section (barns)
Incident Energy (MeV)
24
78-Pt-183m

Radionuclide Production Cross Section