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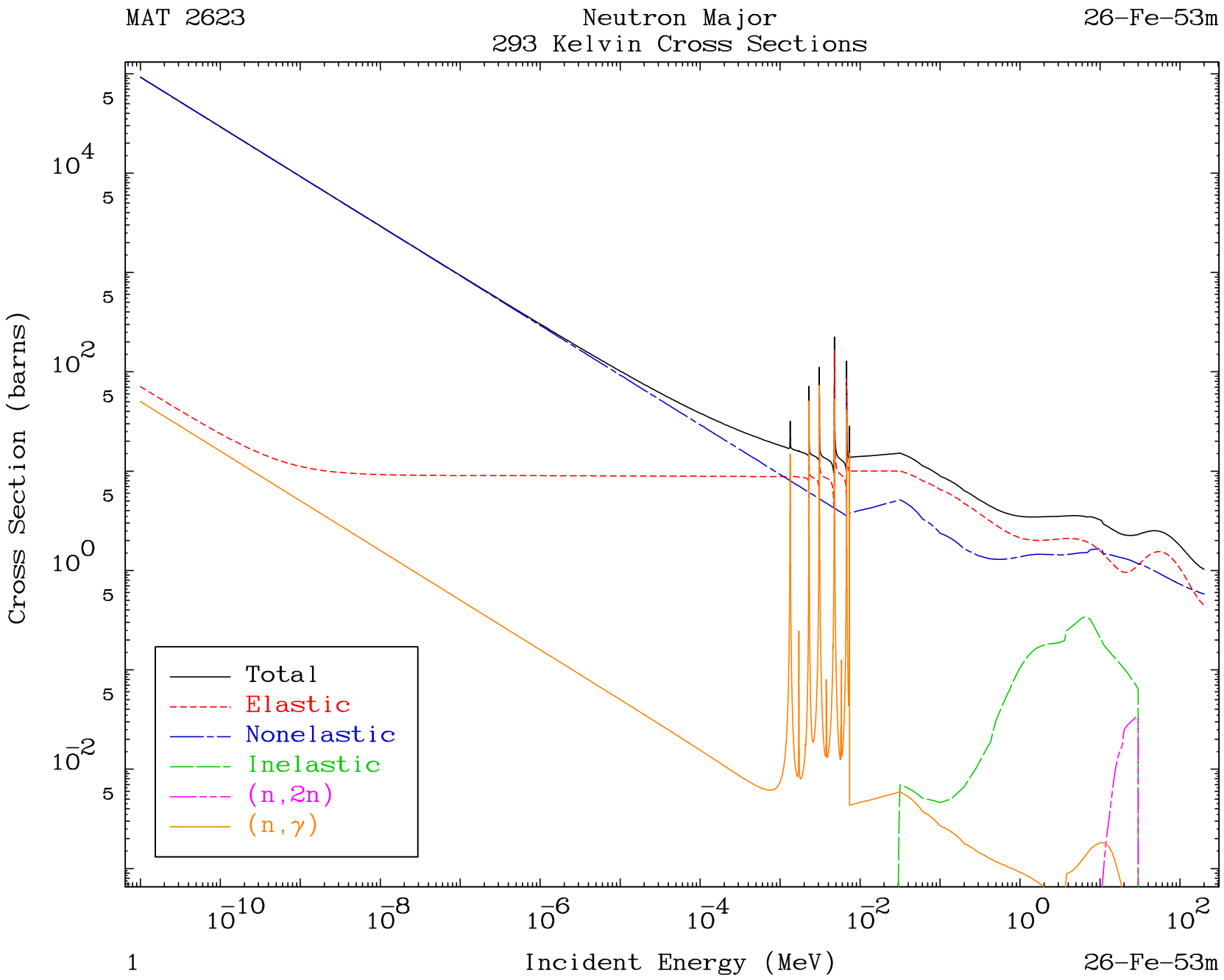
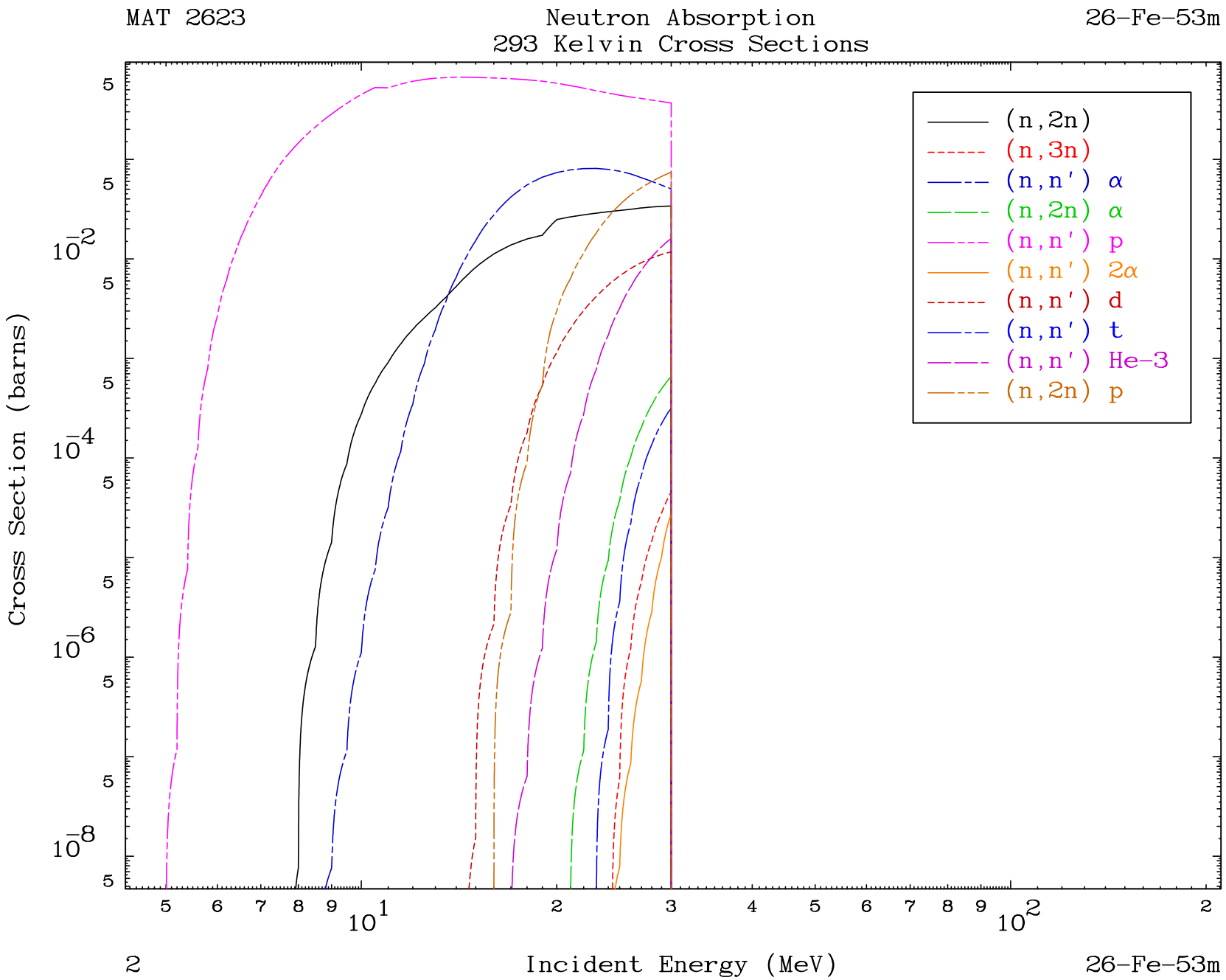
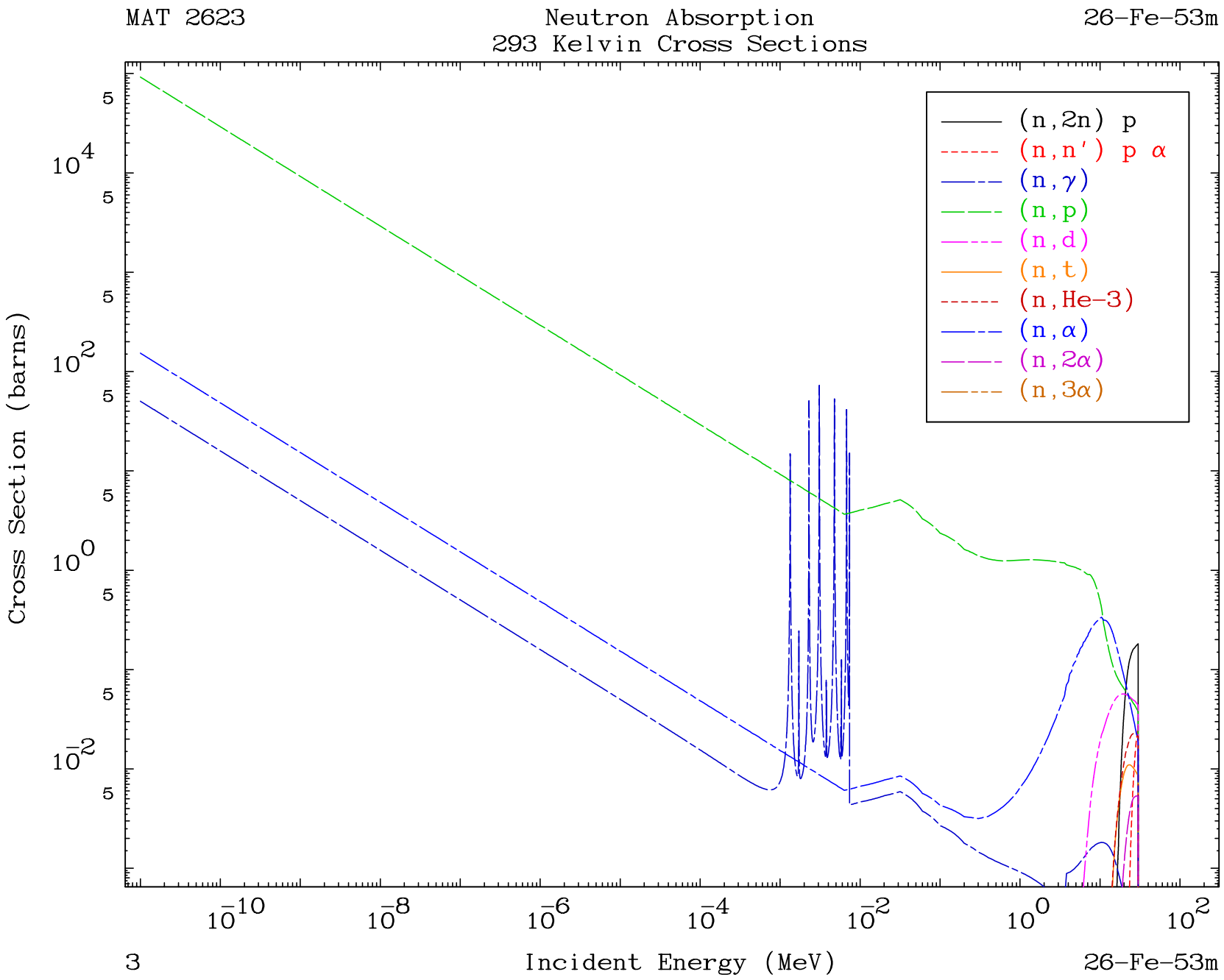
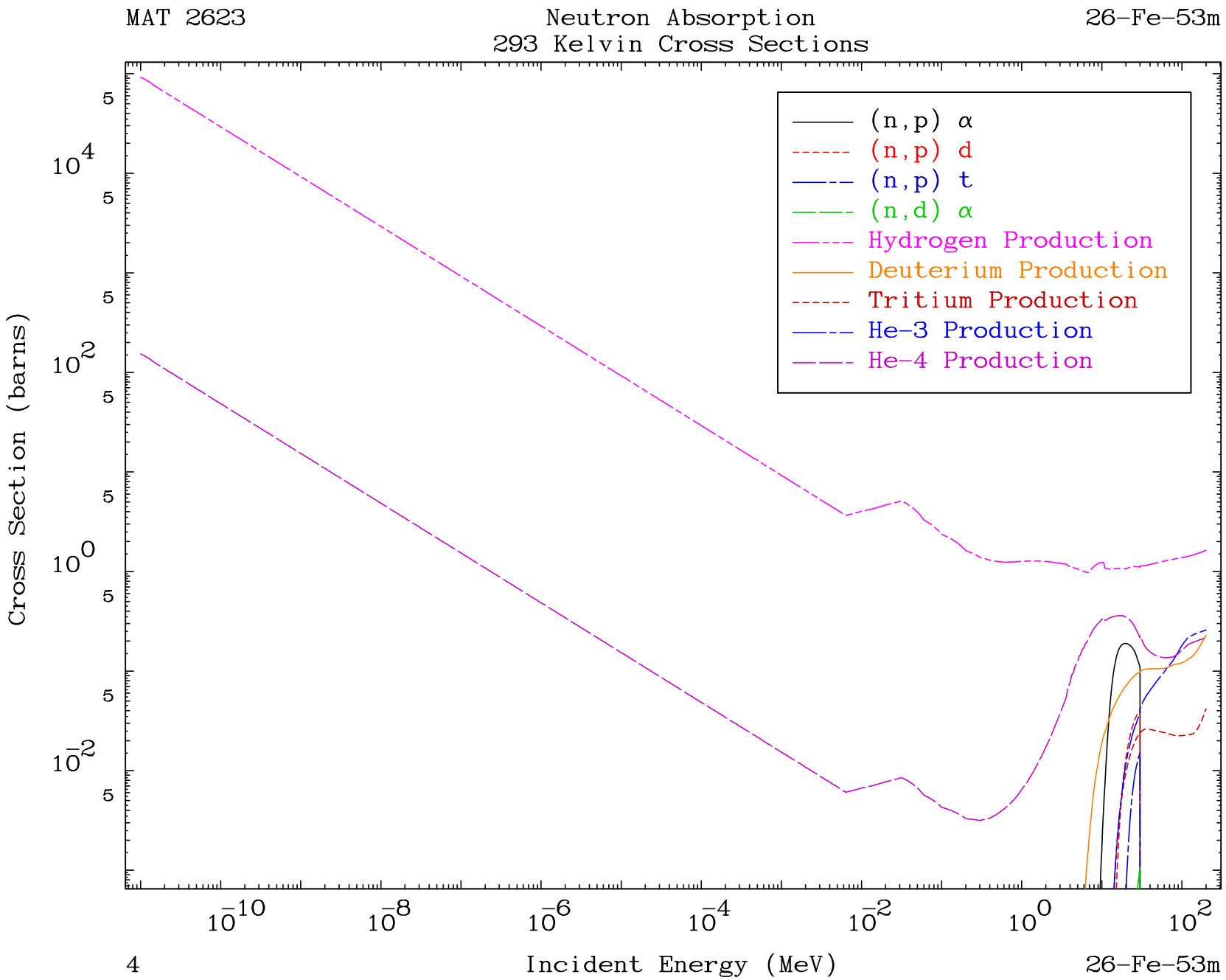
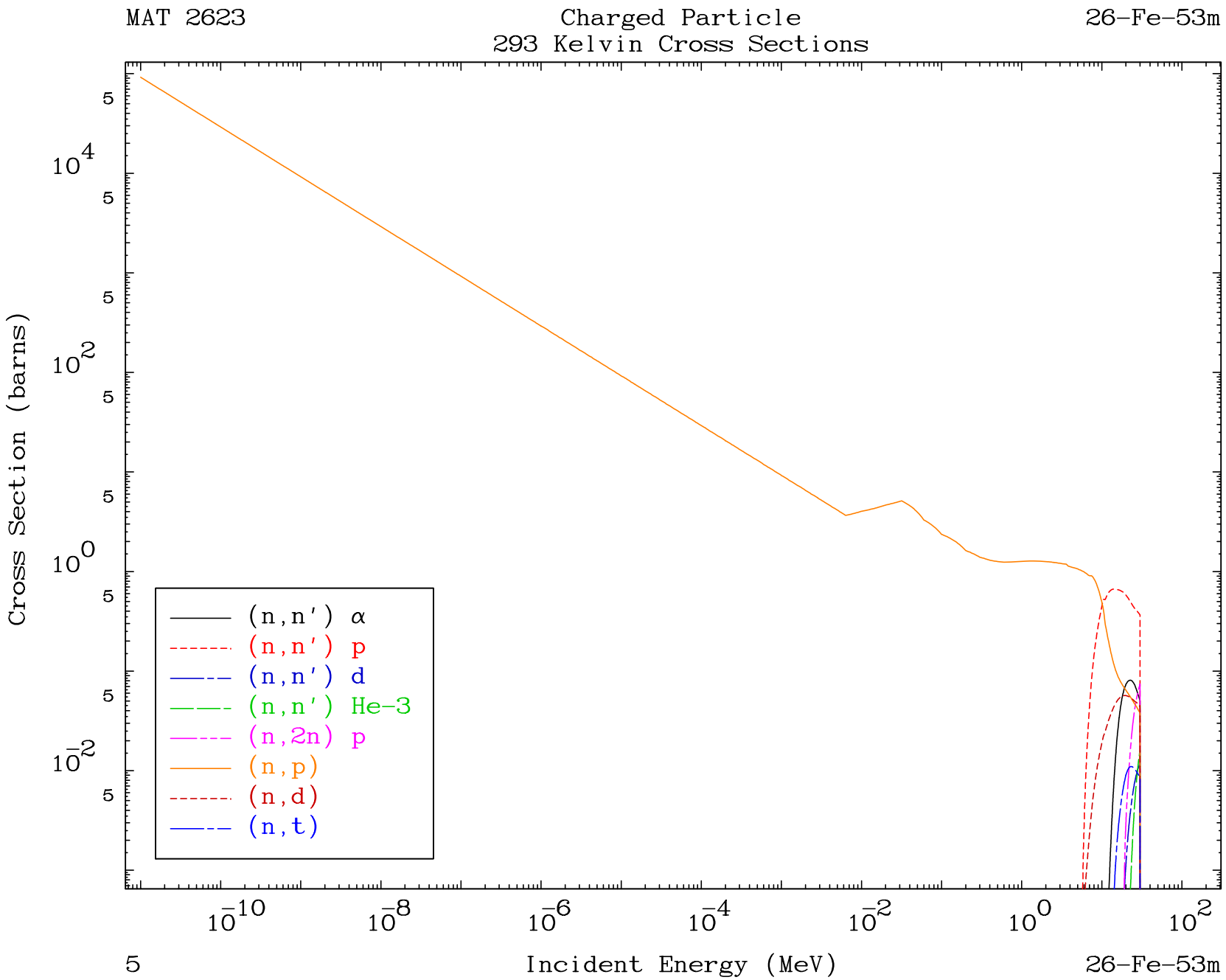
Press Mouse Button to Start

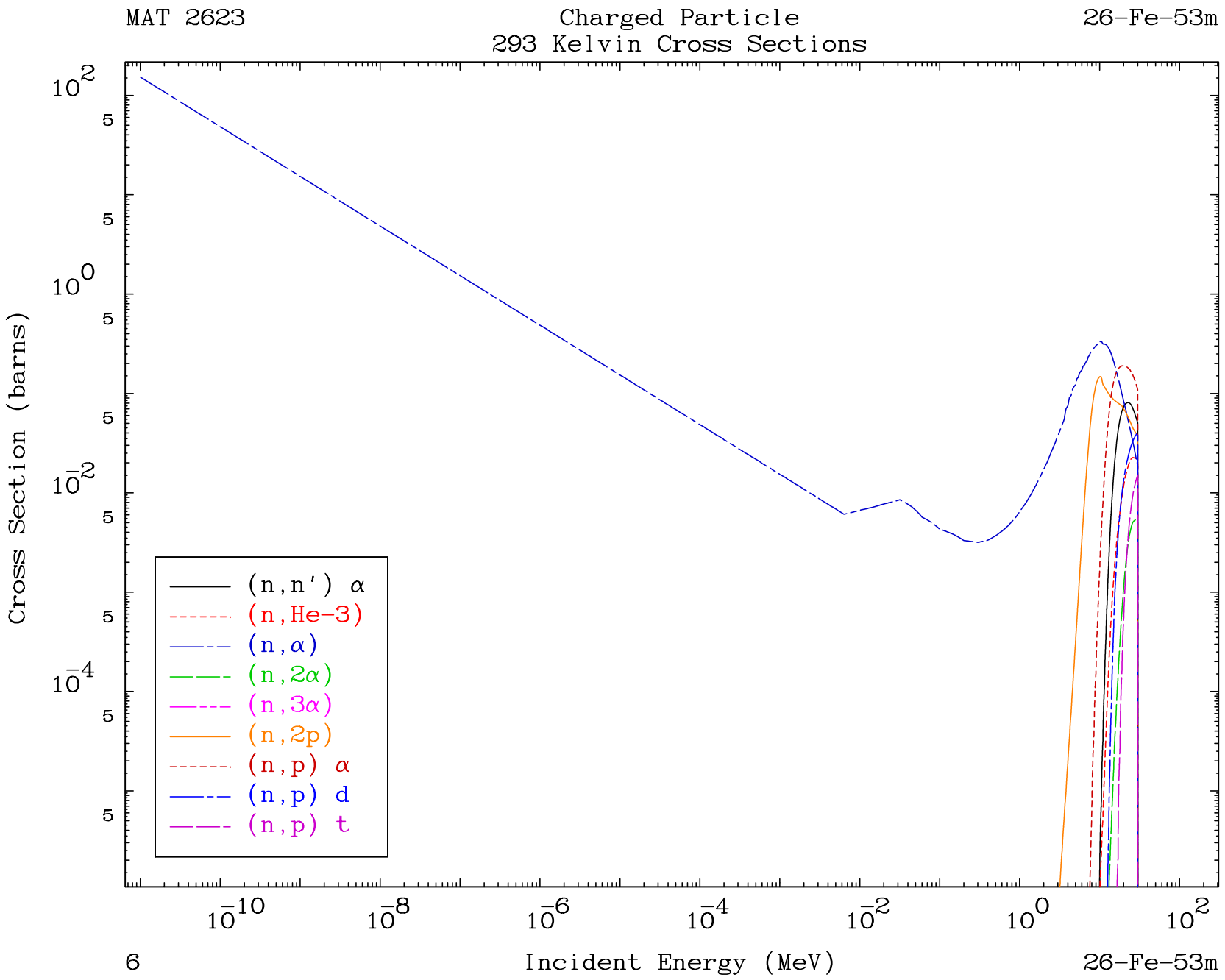

MAT 2623
Neutron Major
293 Kelvin Cross Sections
26-Fe-53m
Cross Section (barns)
Incident Energy (MeV)
Total
Elastic
Nonelastic
Inelastic
(n,2n)
(n,γ)
26-Fe-53m
1

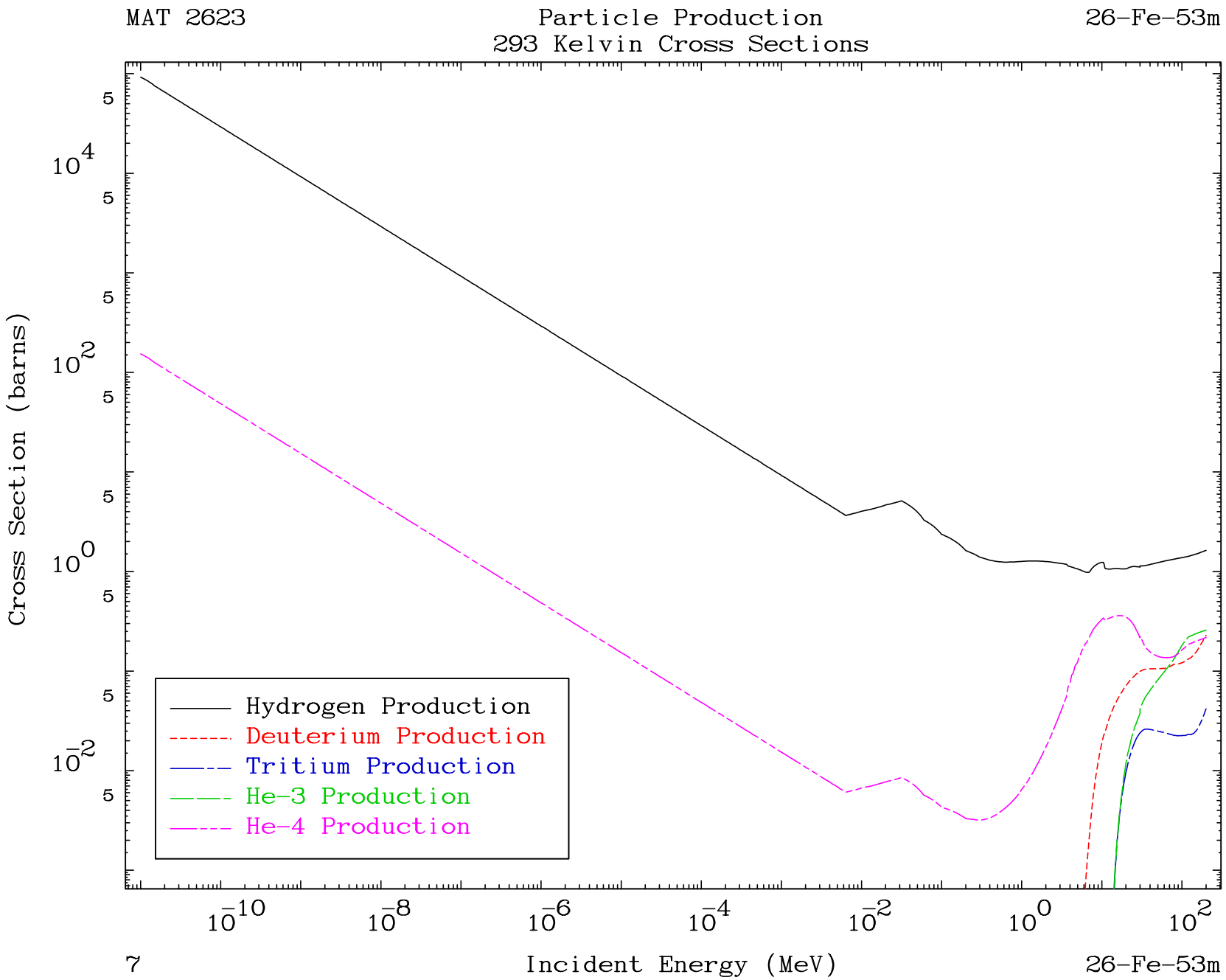

MAT 2623
Neutron Absorption
293 Kelvin Cross Sections
26-Fe-53m
Cross Section (barns)
Incident Energy (MeV)
26-Fe-53m
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p

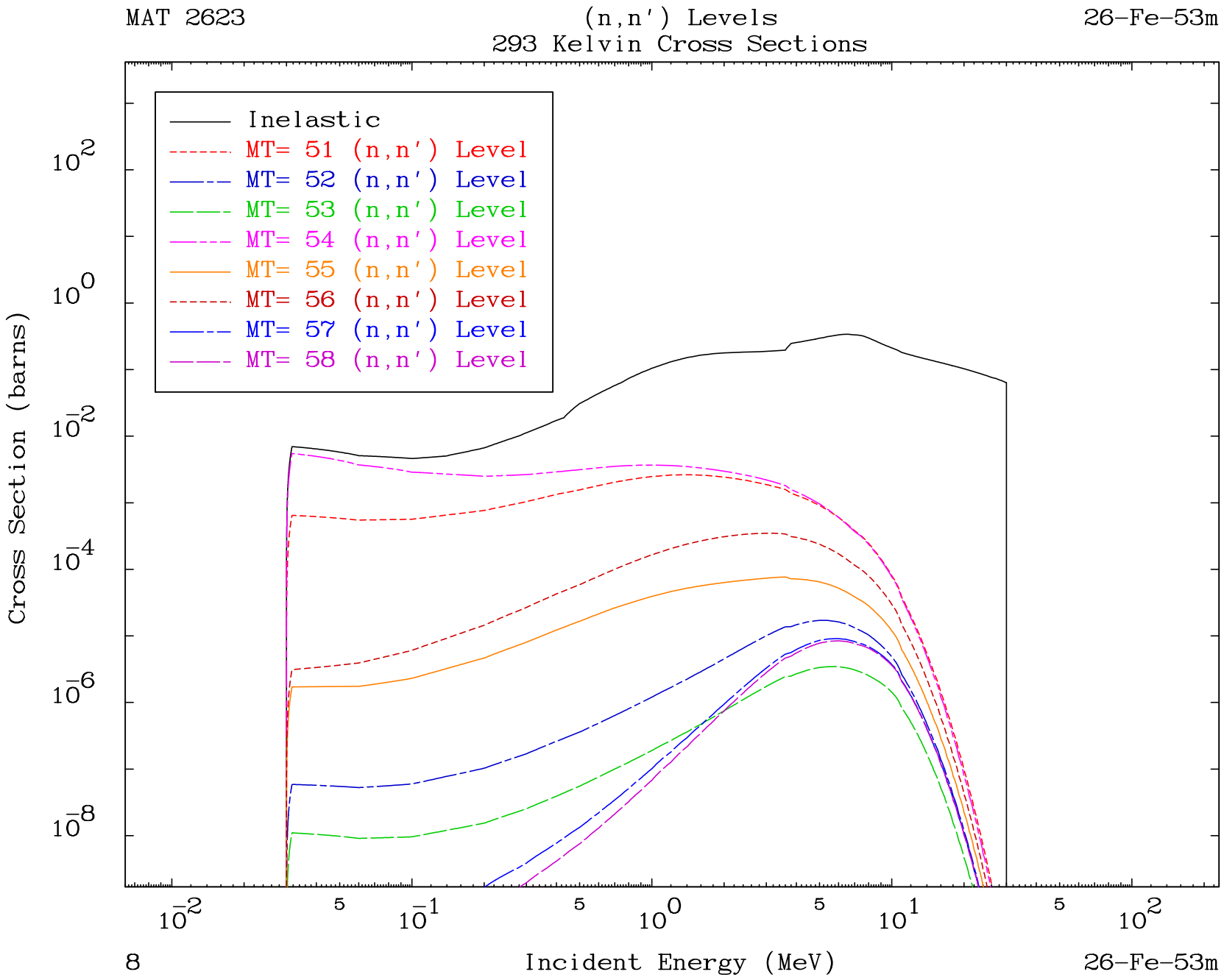

MAT 2623
Neutron Absorption
293 Kelvin Cross Sections
26-Fe-53m
(n,2n) p
(n,n') p α
(n,γ)
(n,p)
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,3α)
Cross Section (barns)
Incident Energy (MeV)
3
26-Fe-53m

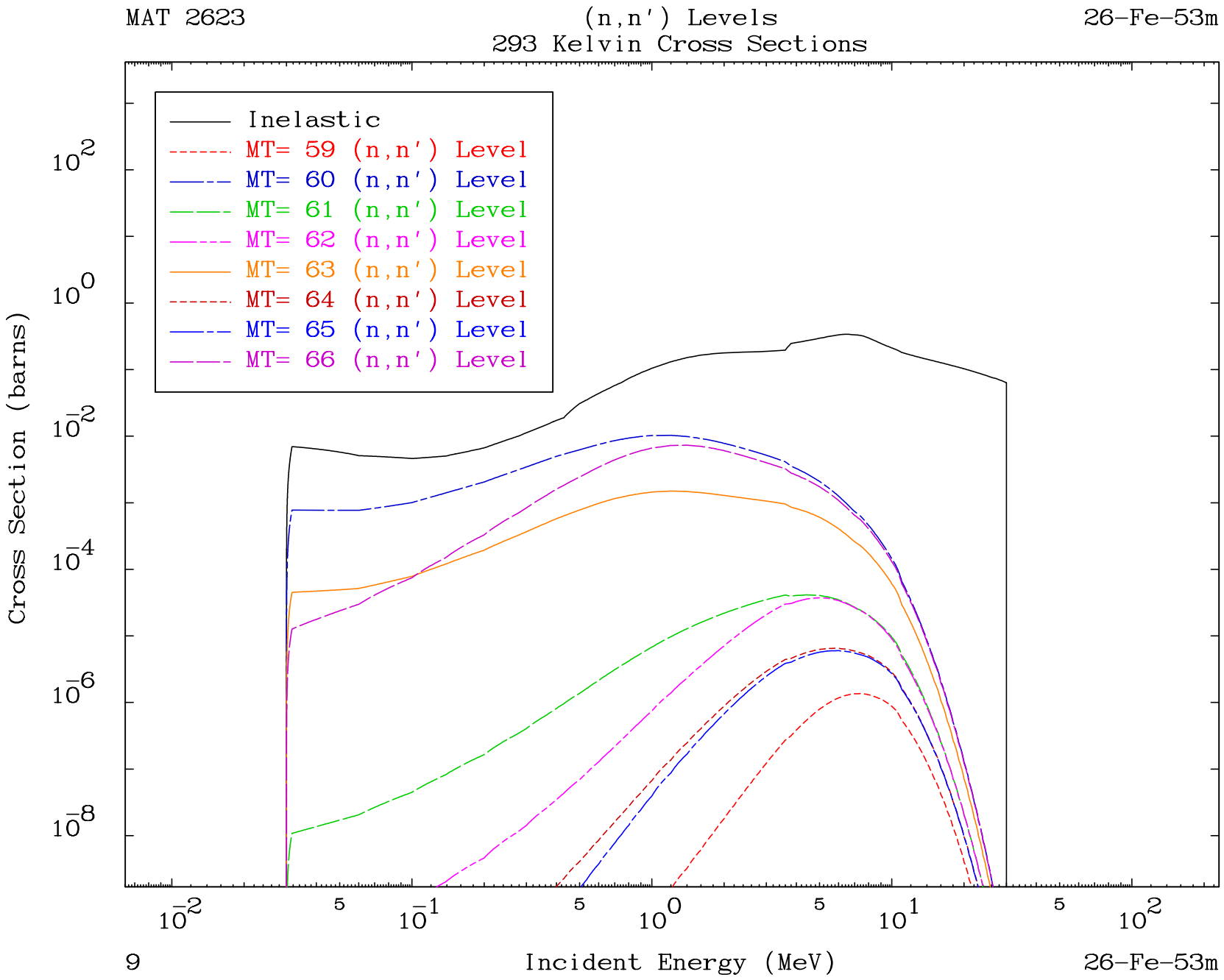

MAT 2623
Neutron Absorption
293 Kelvin Cross Sections
26-Fe-53m
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production
Cross Section (barns)
Incident Energy (MeV)
4
26-Fe-53m

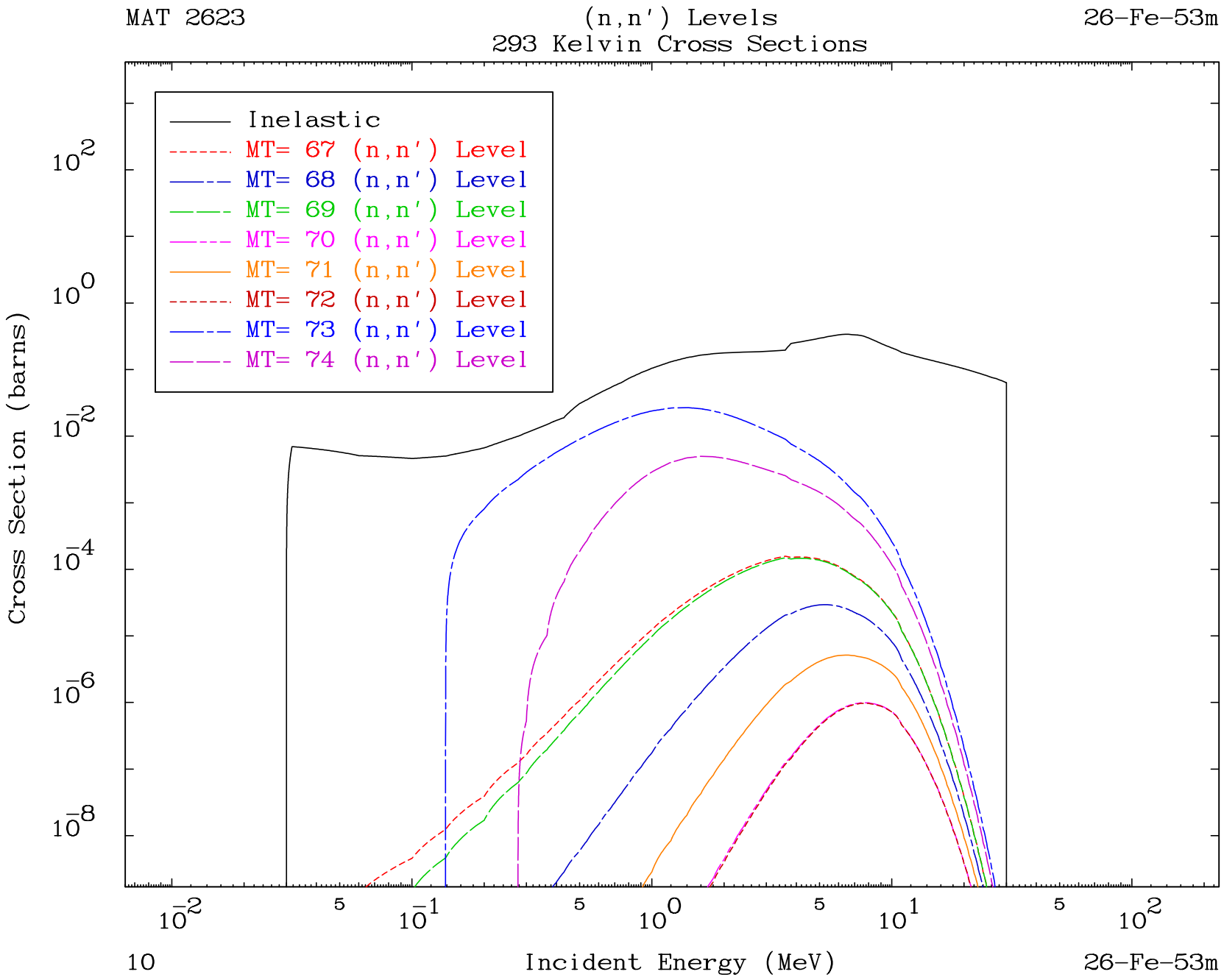

MAT 2623
Charged Particle
293 Kelvin Cross Sections
26-Fe-53m
Cross Section (barns)
Incident Energy (MeV)
(n,n') α
(n,n') p
(n,n') d
(n,n') He-3
(n,2n) p
(n,p)
(n,d)
(n,t)

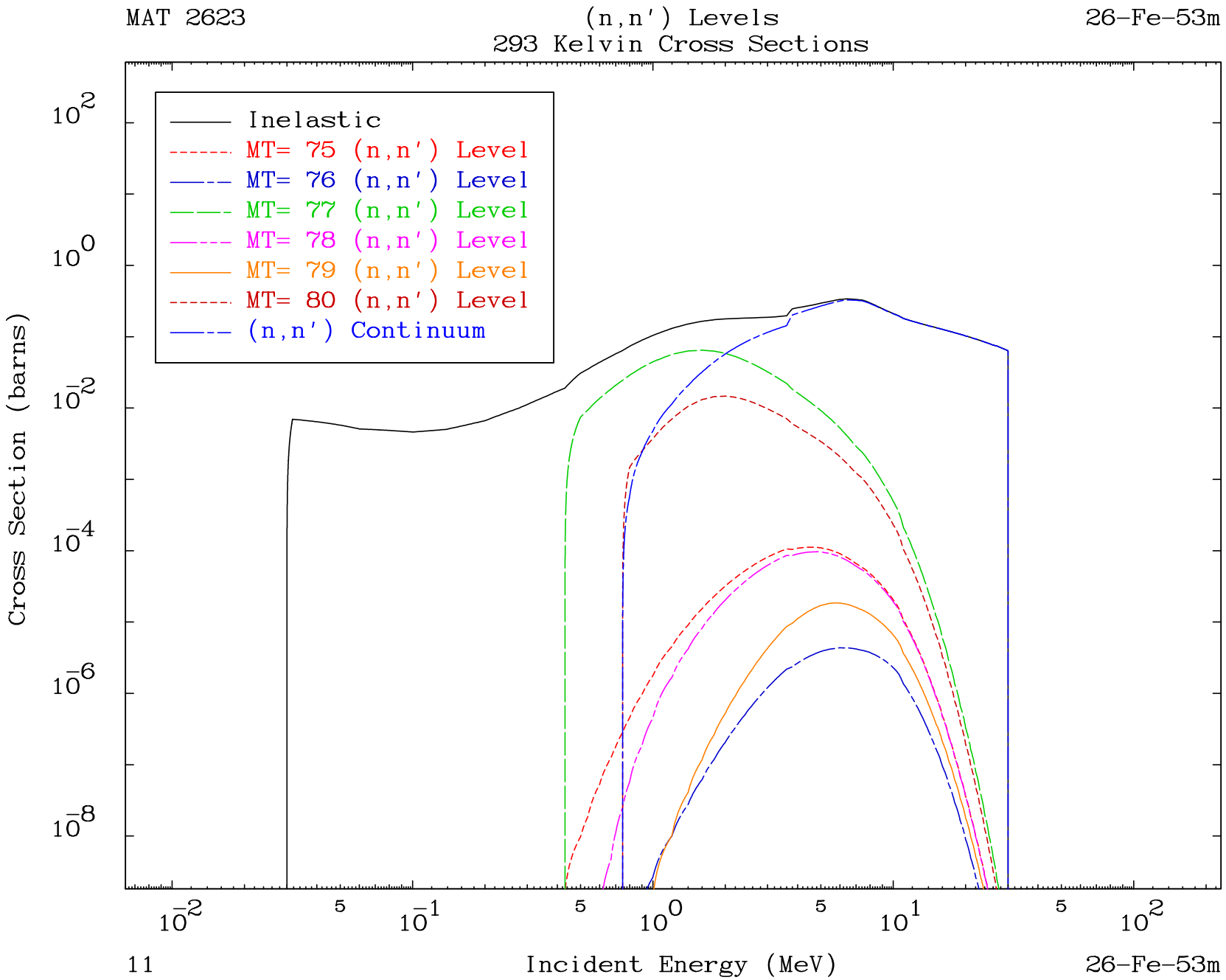

MAT 2623
Charged Particle
293 Kelvin Cross Sections
26-Fe-53m
Cross Section (barns)
Incident Energy (MeV)
(n,n') α
(n,He-3)
(n,α)
(n,2α)
(n,3α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
6
26-Fe-53m

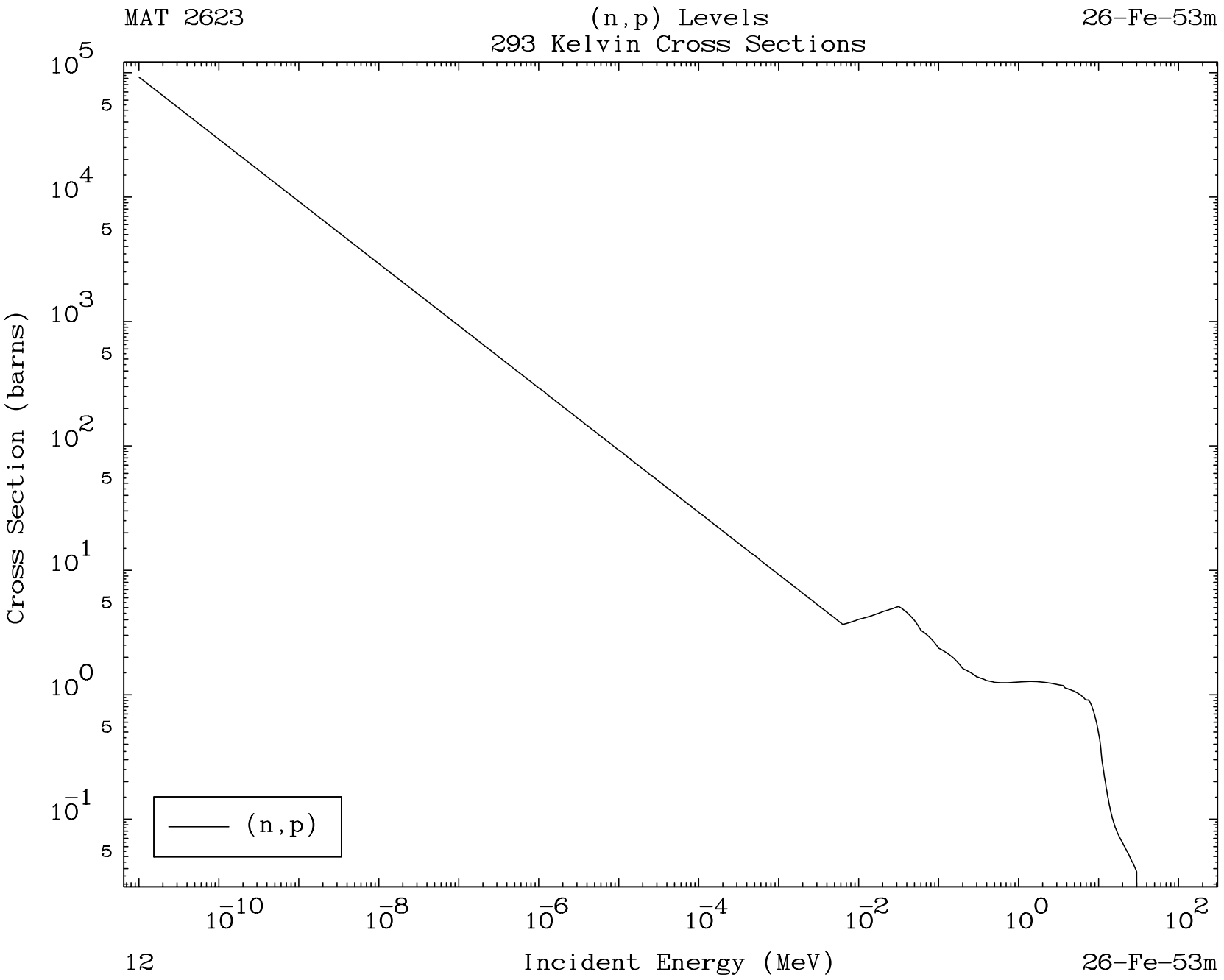

MAT 2623
Particle Production
293 Kelvin Cross Sections
26-Fe-53m
Cross Section (barns)
Incident Energy (MeV)
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production
7
26-Fe-53m

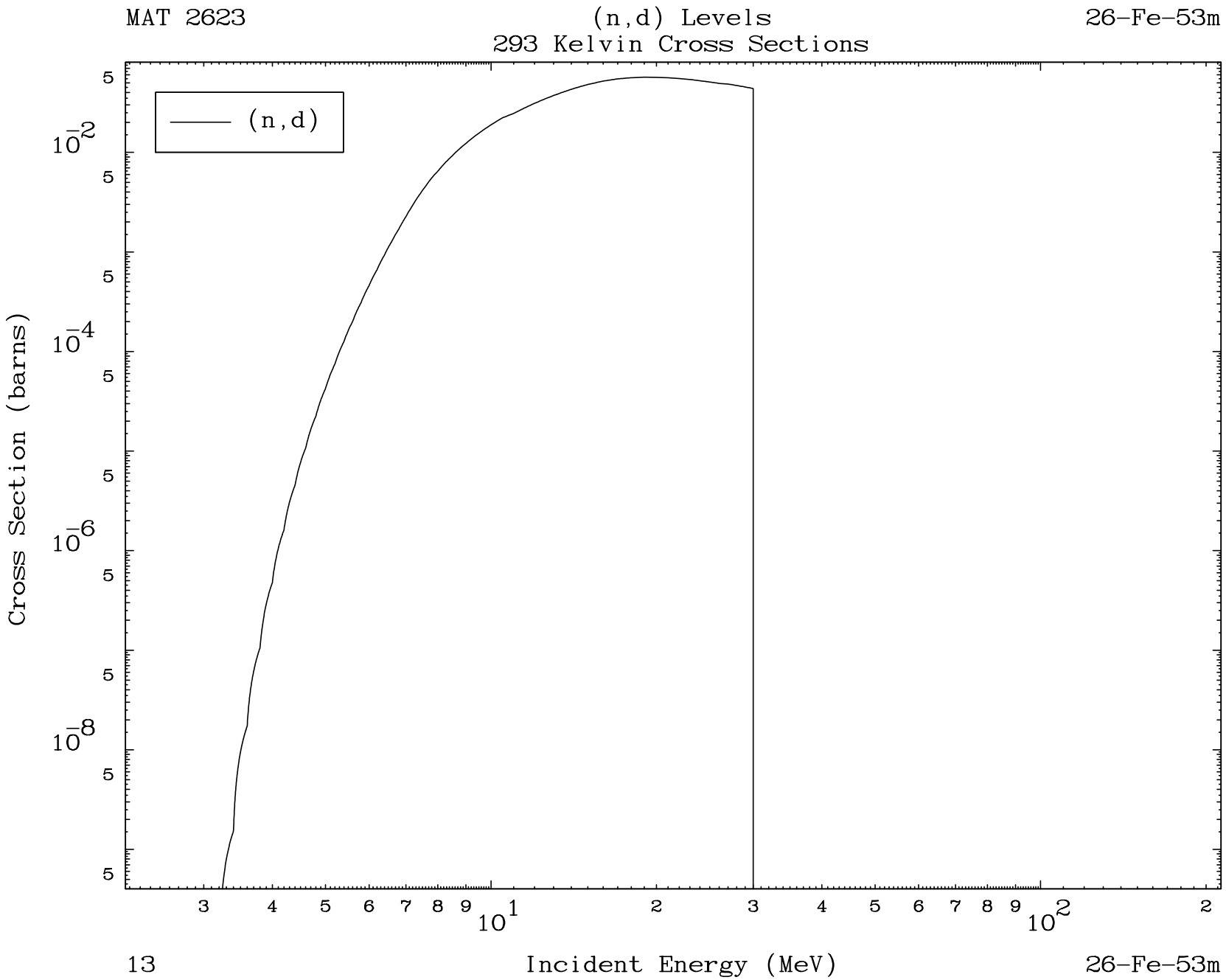

MAT 2623
(n,n') Levels
293 Kelvin Cross Sections
26-Fe-53m
Inelastic
MT= 51 (n,n') Level
MT= 52 (n,n') Level
MT= 53 (n,n') Level
MT= 54 (n,n') Level
MT= 55 (n,n') Level
MT= 56 (n,n') Level
MT= 57 (n,n') Level
MT= 58 (n,n') Level
Cross Section (barns)
10^2
10^0
10^-2
10^-4
10^-6
10^-8
10^-2
5
10^-1
5
10^0
5
10^1
5
10^2
Incident Energy (MeV)
8
26-Fe-53m

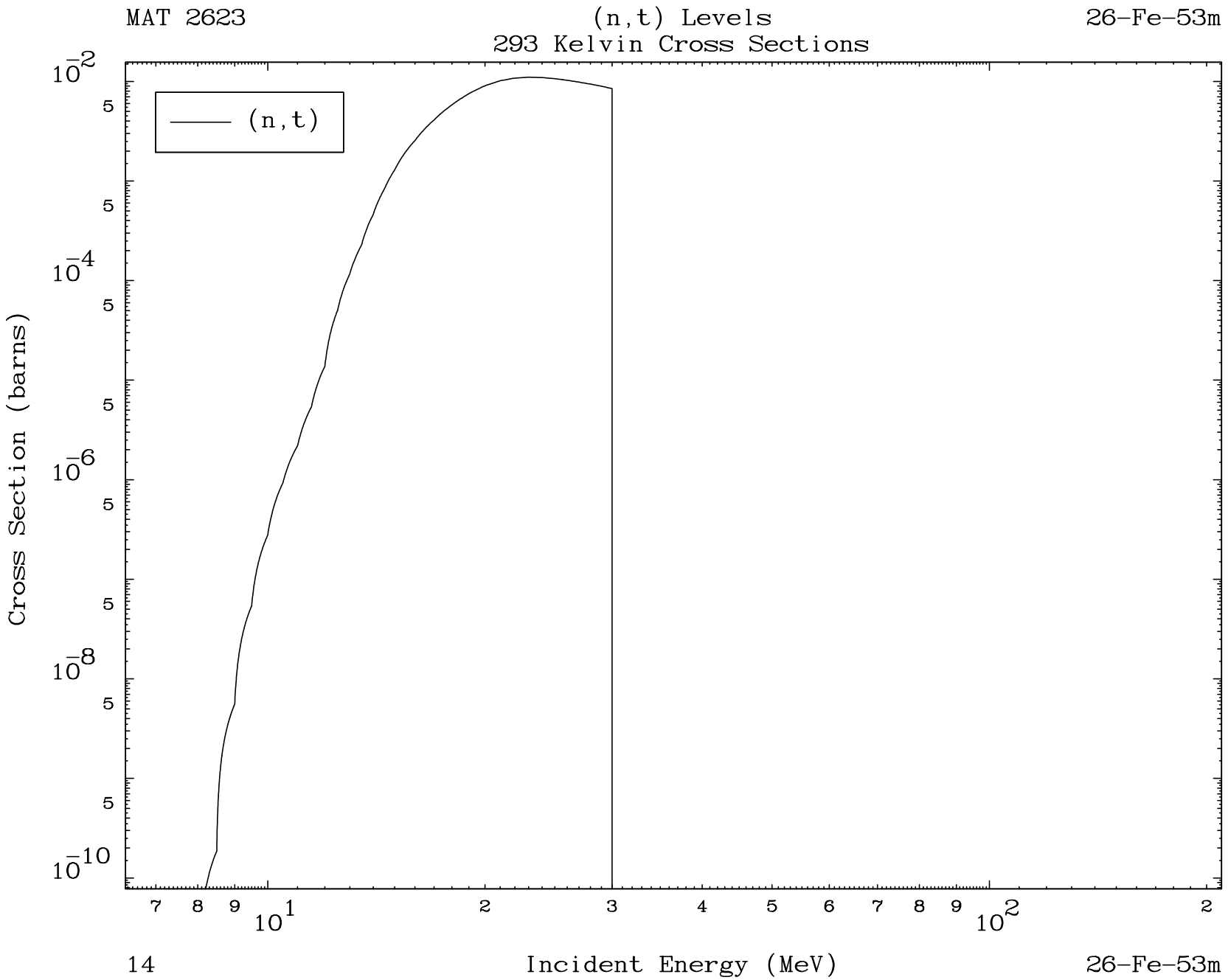

MAT 2623
(n,n') Levels
293 Kelvin Cross Sections
26-Fe-53m
Inelastic
MT= 59 (n,n') Level
MT= 60 (n,n') Level
MT= 61 (n,n') Level
MT= 62 (n,n') Level
MT= 63 (n,n') Level
MT= 64 (n,n') Level
MT= 65 (n,n') Level
MT= 66 (n,n') Level
Cross Section (barns)
10^2
10^0
10^-2
10^-4
10^-6
10^-8
10^-2
5
10^-1
5
10^0
5
10^1
5
10^2
Incident Energy (MeV)
9
26-Fe-53m

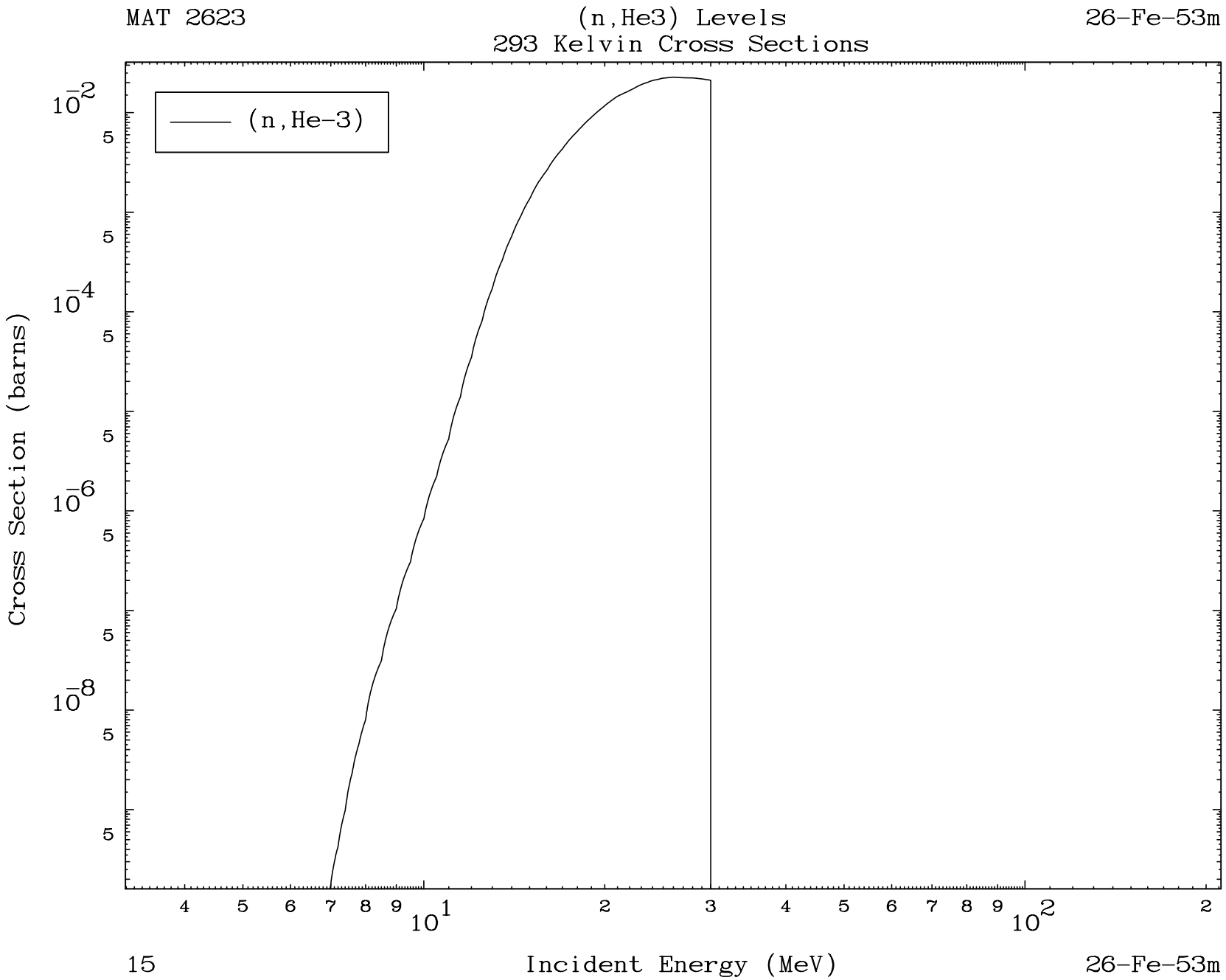

MAT 2623
(n,n') Levels
293 Kelvin Cross Sections
26-Fe-53m
Inelastic
MT= 67 (n,n') Level
MT= 68 (n,n') Level
MT= 69 (n,n') Level
MT= 70 (n,n') Level
MT= 71 (n,n') Level
MT= 72 (n,n') Level
MT= 73 (n,n') Level
MT= 74 (n,n') Level
Cross Section (barns)
Incident Energy (MeV)
26-Fe-53m

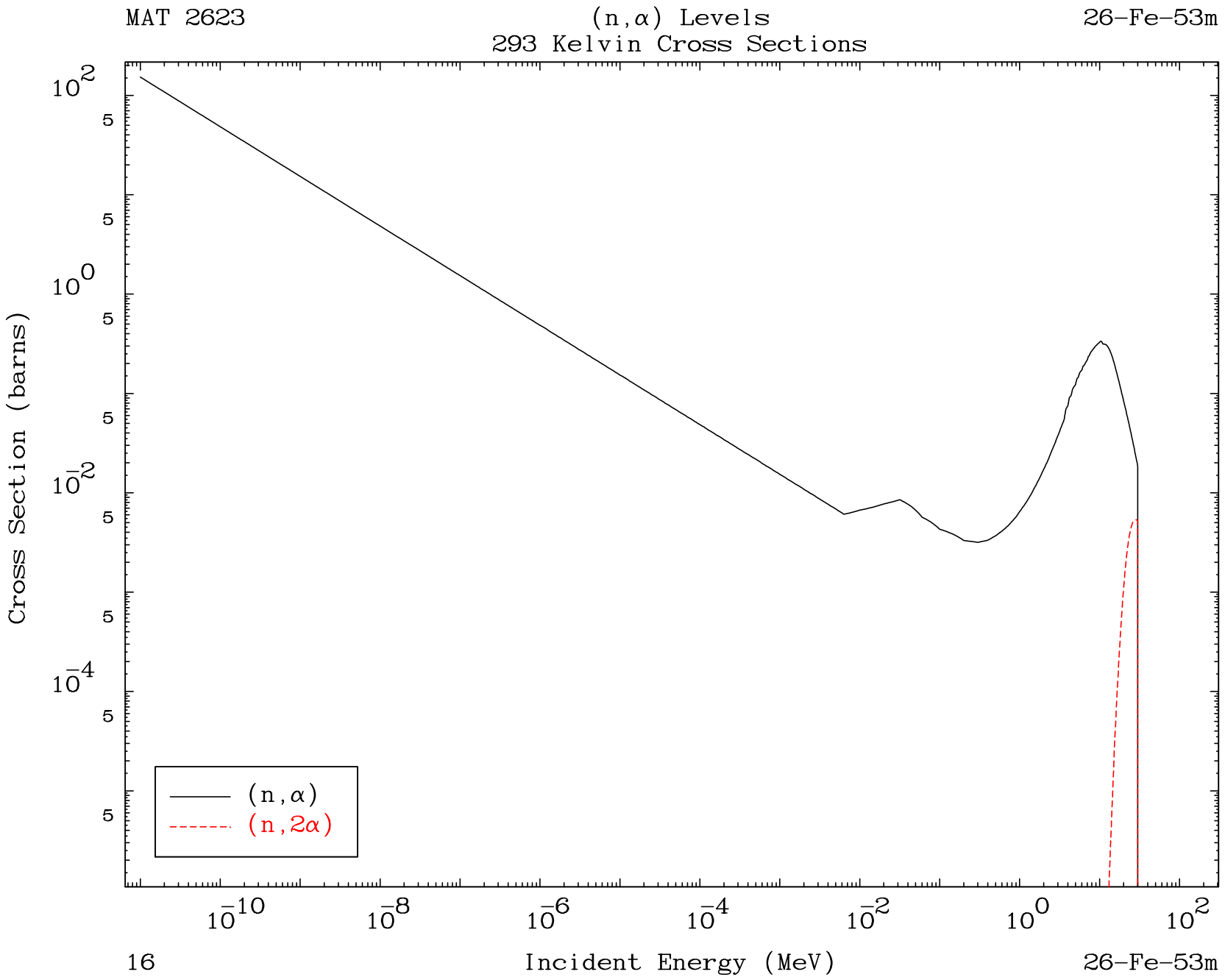

MAT 2623
(n,n') Levels
293 Kelvin Cross Sections
26-Fe-53m
Inelastic
MT= 75 (n,n') Level
MT= 76 (n,n') Level
MT= 77 (n,n') Level
MT= 78 (n,n') Level
MT= 79 (n,n') Level
MT= 80 (n,n') Level
(n,n') Continuum
Cross Section (barns)
10^2
10^0
10^-2
10^-4
10^-6
10^-8
10^-2
5
10^-1
5
10^0
5
10^1
5
10^2
11
Incident Energy (MeV)
26-Fe-53m

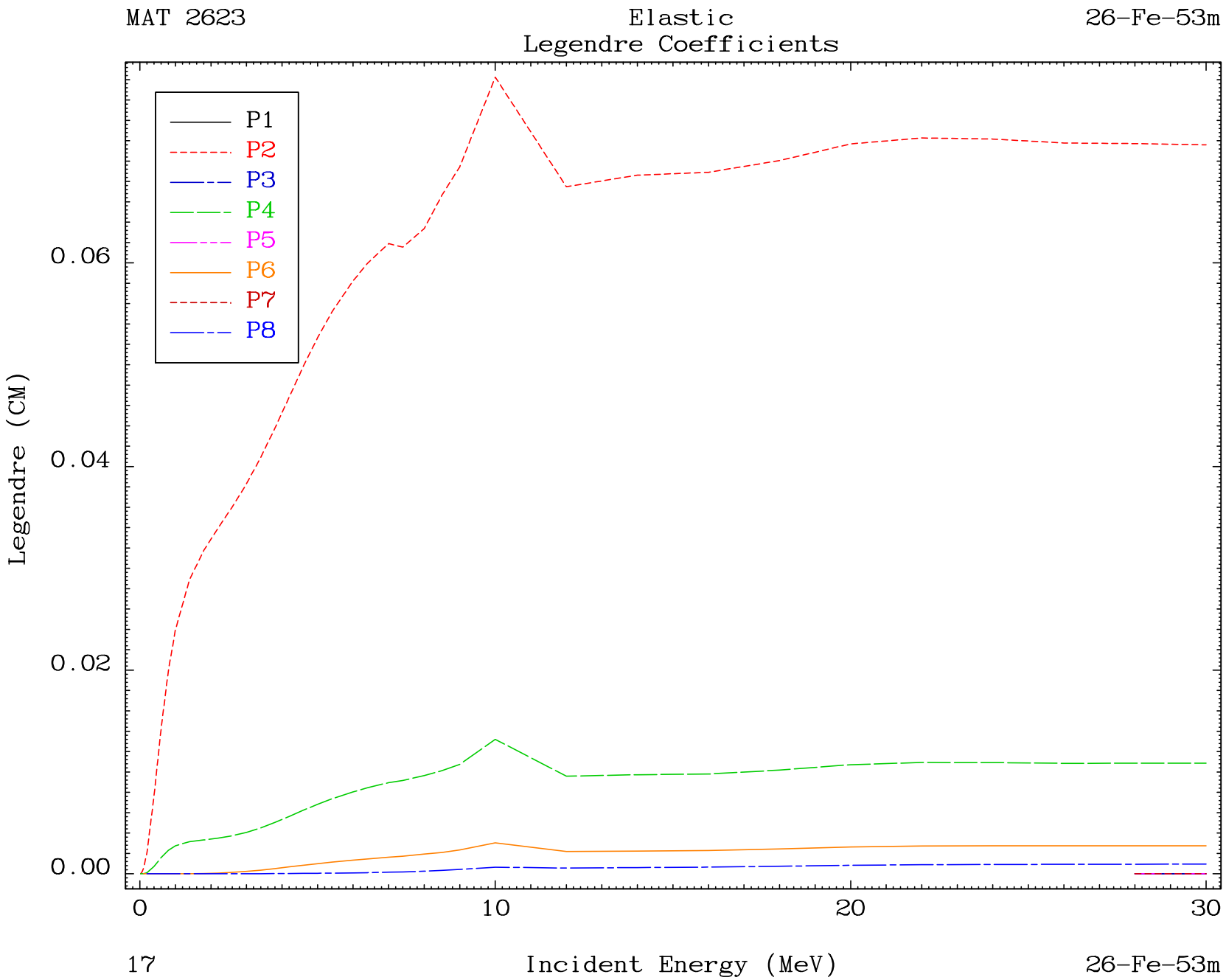

MAT 2623
(n,p) Levels
26-Fe-53m
293 Kelvin Cross Sections
Cross Section (barns)
Incident Energy (MeV)
(n,p)
12
26-Fe-53m

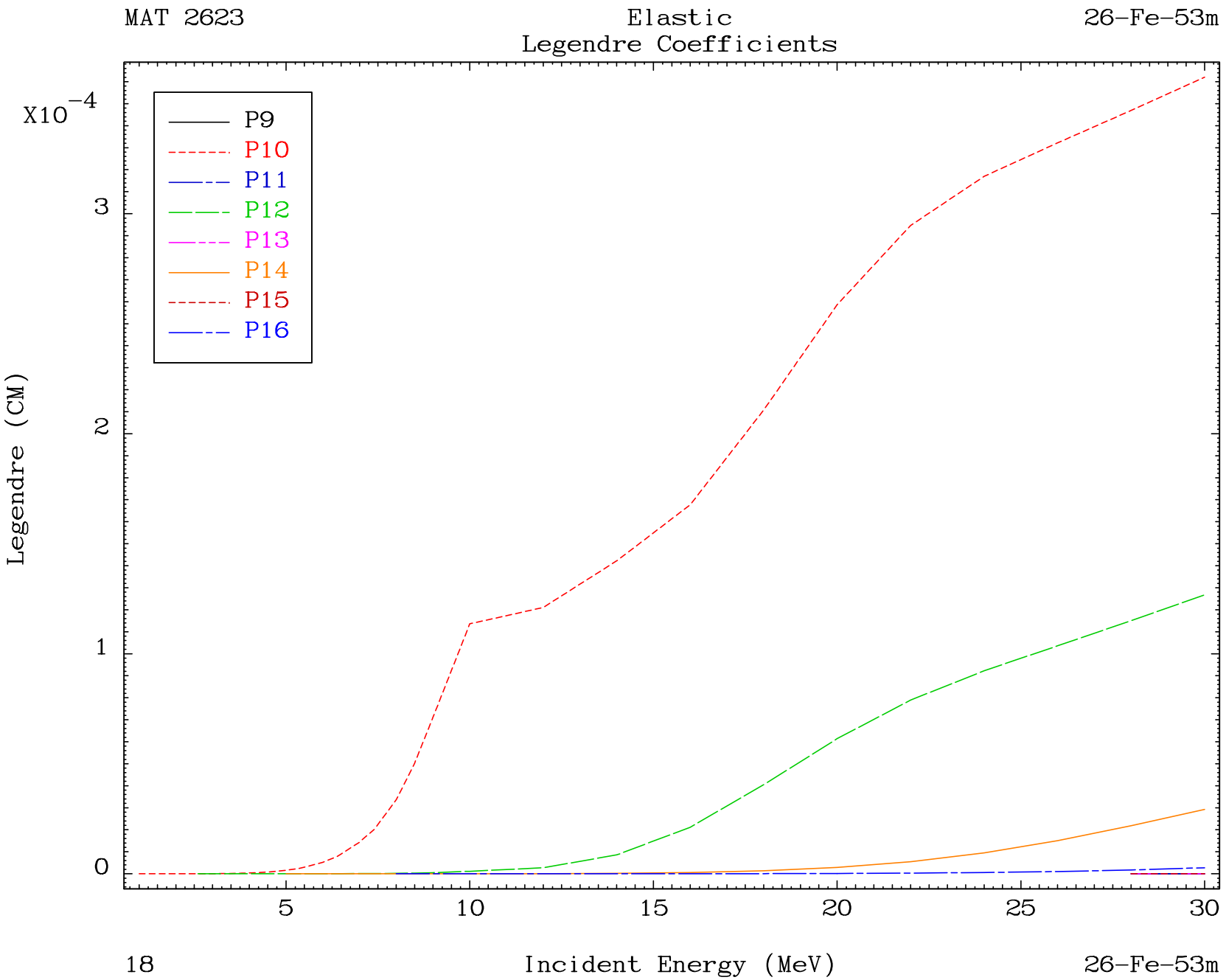

MAT 2623
(n,d) Levels
26-Fe-53m
293 Kelvin Cross Sections
(n,d)
Cross Section (barns)
Incident Energy (MeV)
13
26-Fe-53m

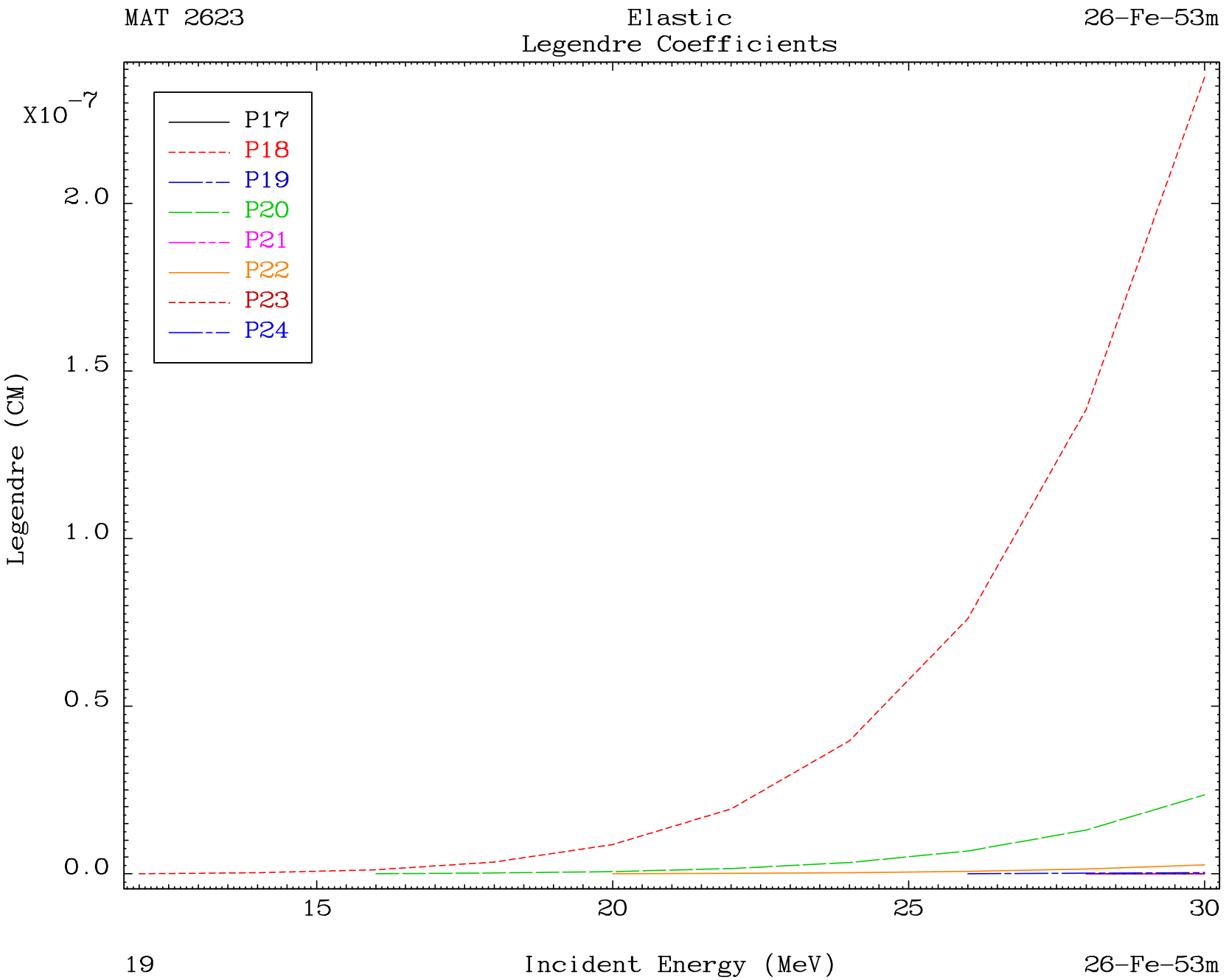

MAT 2623
(n,t) Levels
26-Fe-53m
293 Kelvin Cross Sections
(n,t)
Cross Section (barns)
Incident Energy (MeV)
14
26-Fe-53m

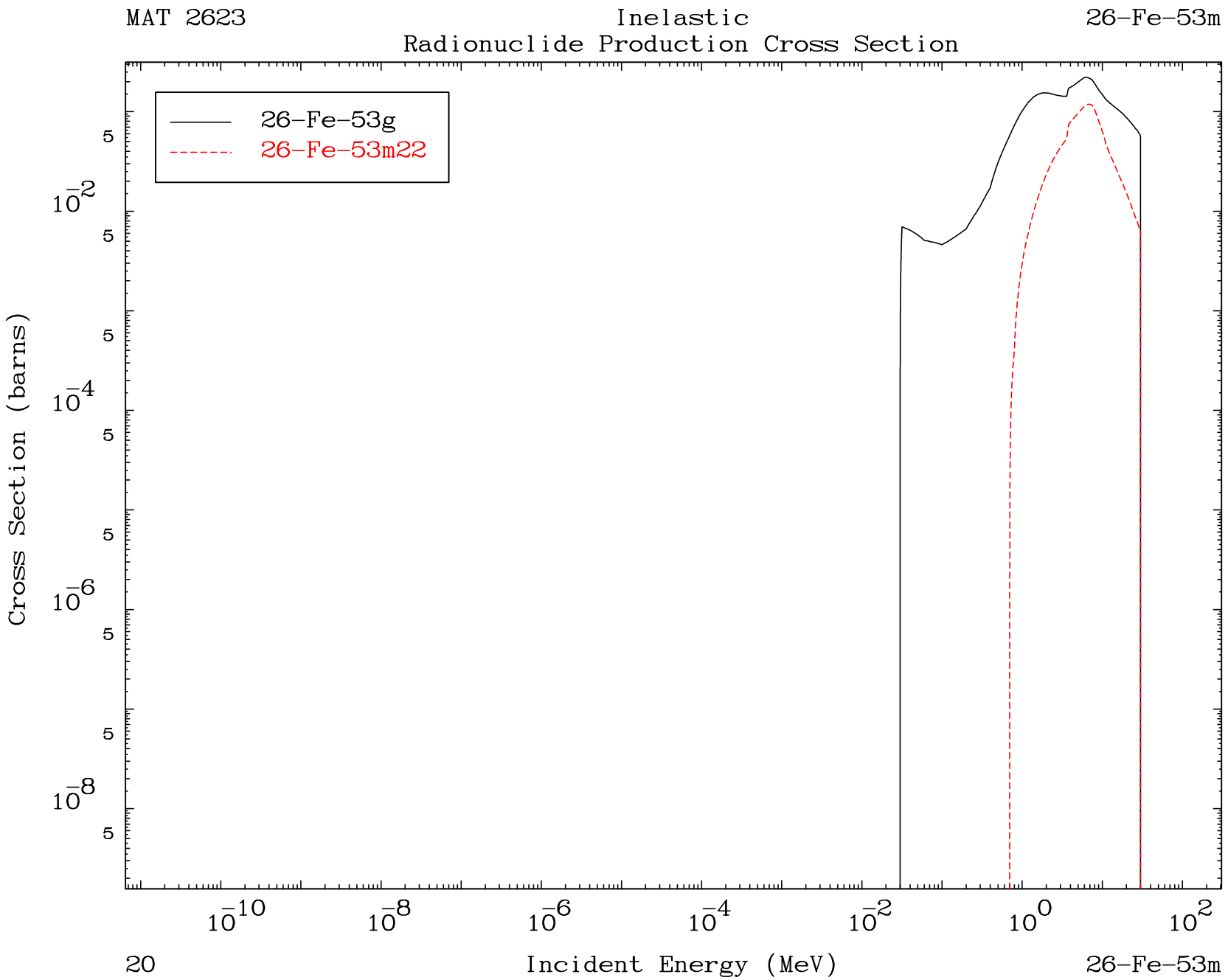

MAT 2623
(n,He3) Levels
26-Fe-53m
293 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
10-2
10-4
10-6
10-8
4 5 6 7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
Incident Energy (MeV)
15
26-Fe-53m

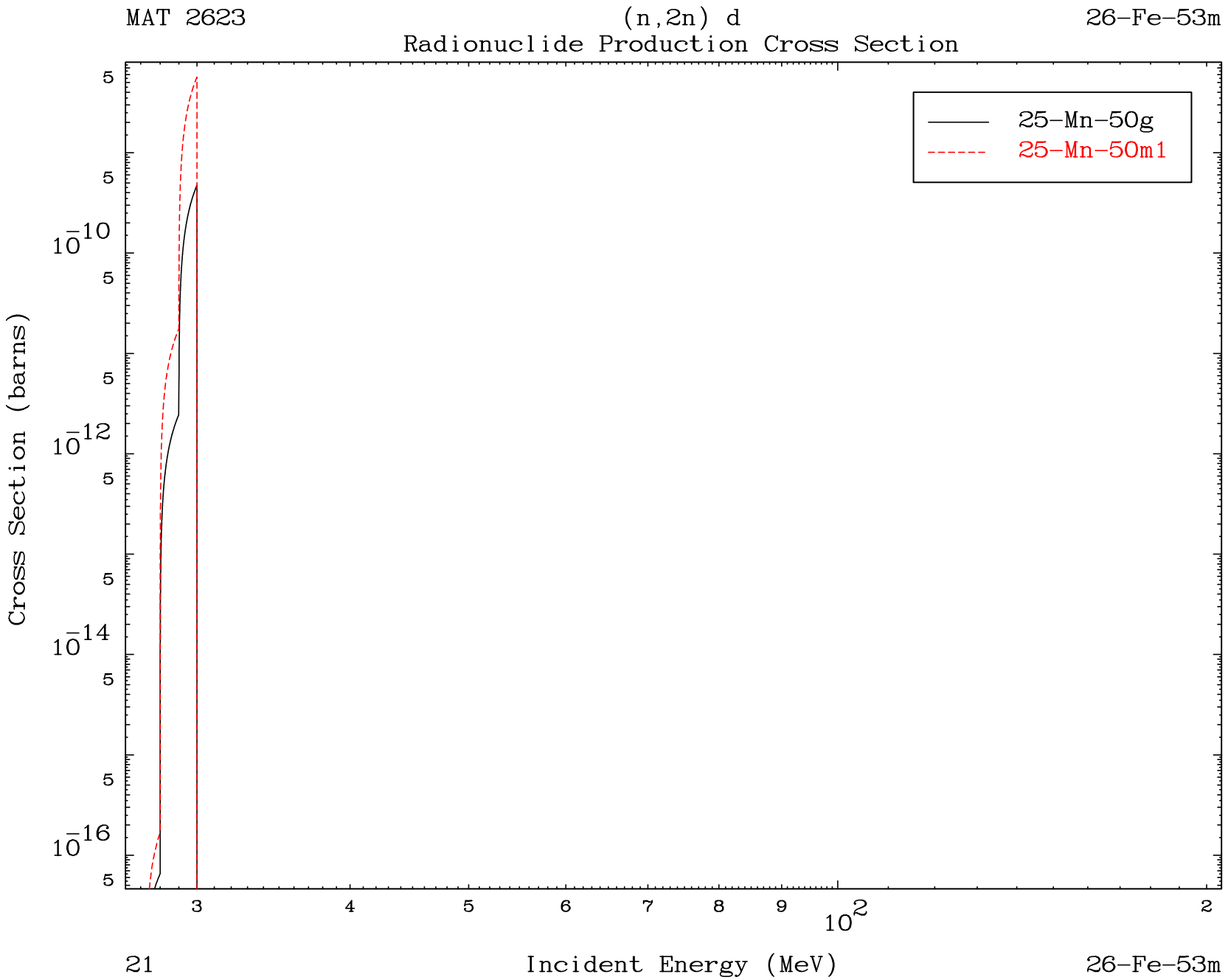

MAT 2623
(n,α) Levels
293 Kelvin Cross Sections
26-Fe-53m
Cross Section (barns)
10^2
10^0
10^-2
10^-4
5
(n,α)
(n,2α)
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
Incident Energy (MeV)
16
26-Fe-53m

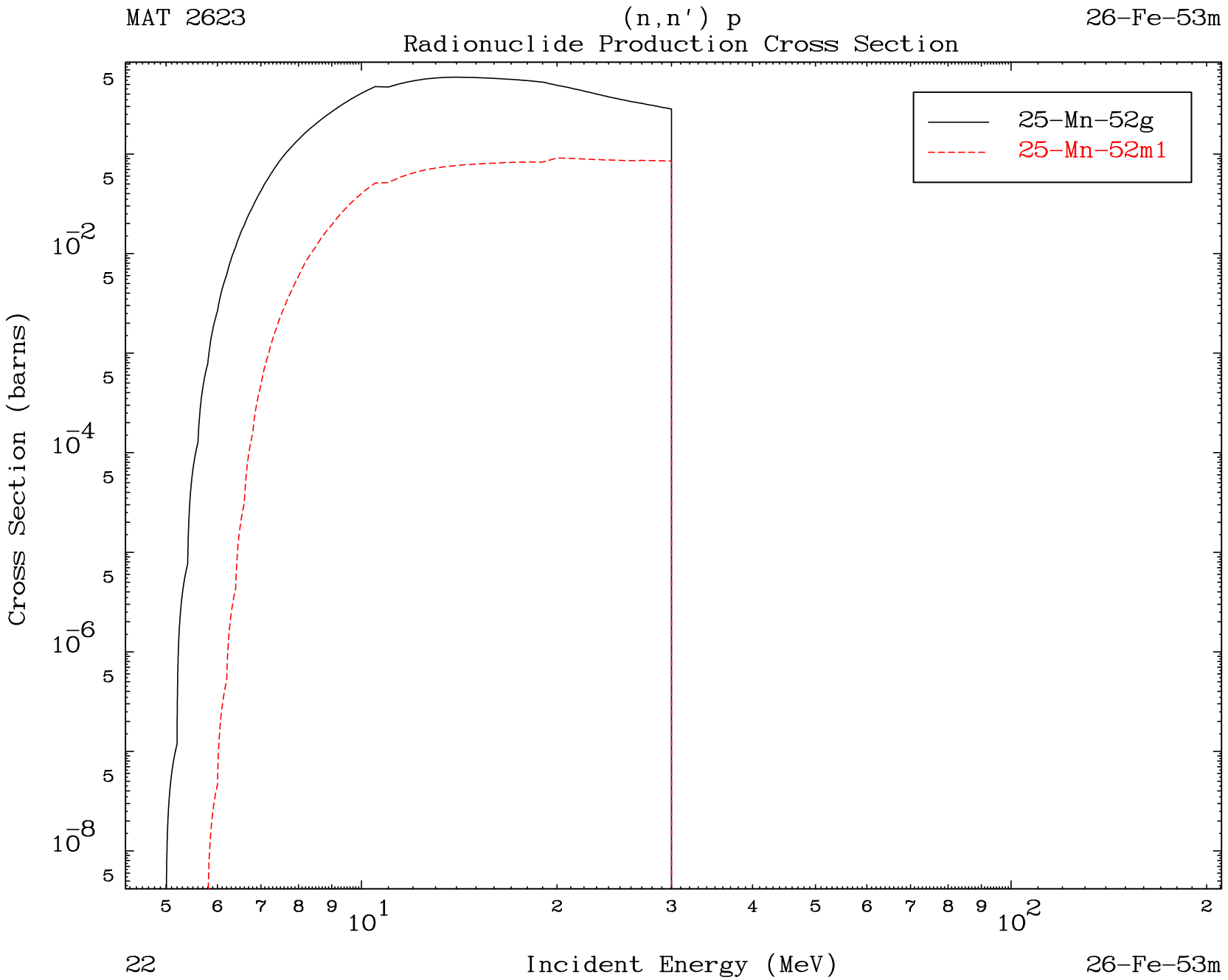

MAT 2623
Elastic
Legendre Coefficients
26-Fe-53m
P1
P2
P3
P4
P5
P6
P7
P8
Legendre (CM)
0.06
0.04
0.02
0.00
0
10
20
30
17
Incident Energy (MeV)
26-Fe-53m

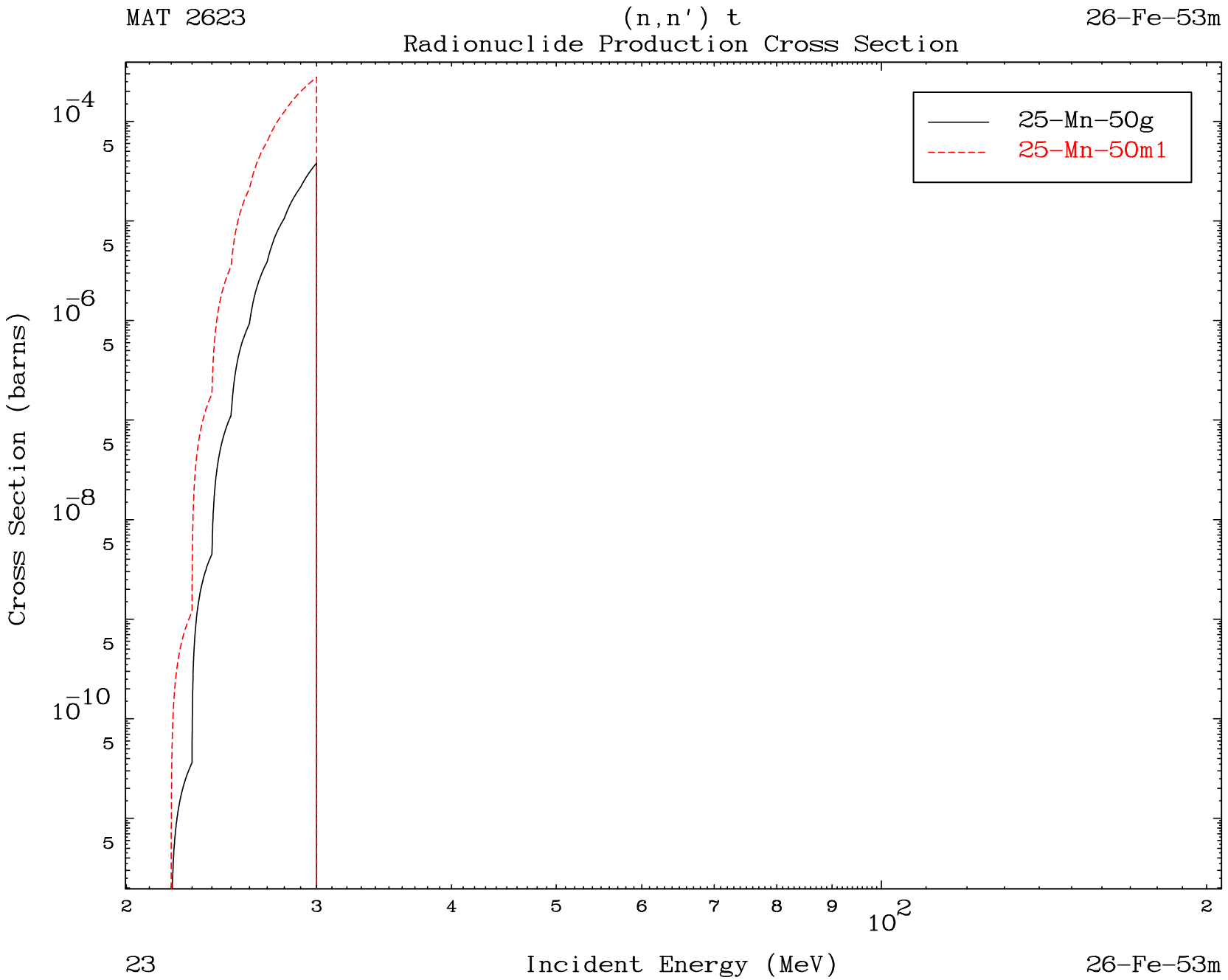

MAT 2623
Elastic
Legendre Coefficients
26-Fe-53m
X10^-4
P9
P10
P11
P12
P13
P14
P15
P16
Legendre (CM)
0
1
2
3
5
10
15
20
25
30
18
Incident Energy (MeV)
26-Fe-53m

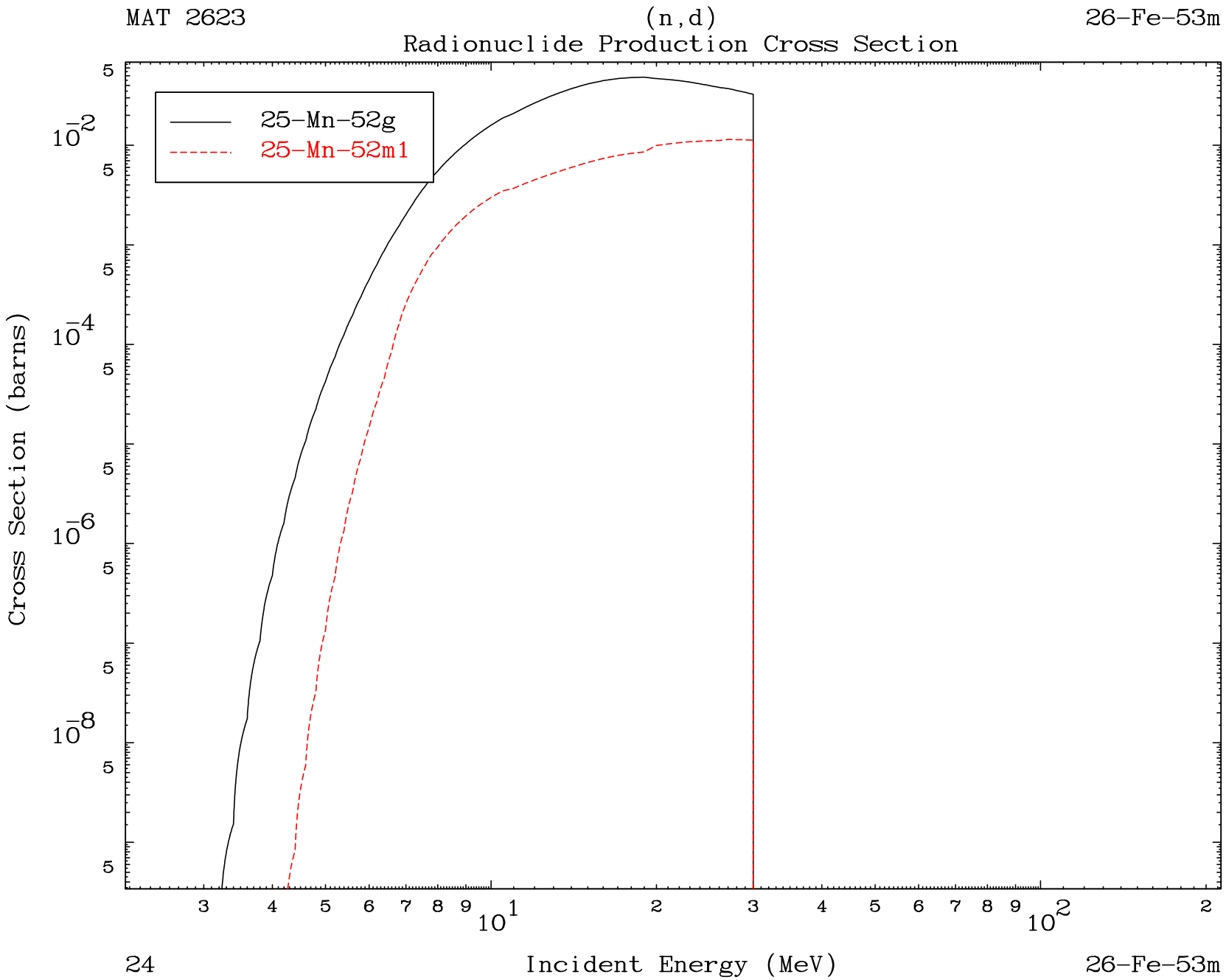

MAT 2623
Elastic
Legendre Coefficients
26-Fe-53m
X10^{-7}
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P17
P18
P19
P20
P21
P22
P23
P24
15
20
25
30
19
Incident Energy (MeV)
26-Fe-53m


MAT 2623
Inelastic
26-Fe-53m
Radionuclide Production Cross Section
26-Fe-53g
26-Fe-53m22
Cross Section (barns)
Incident Energy (MeV)
20
26-Fe-53m


MAT 2623
(n,2n) d
26-Fe-53m
Radionuclide Production Cross Section
25-Mn-50g
25-Mn-50m1
Cross Section (barns)
Incident Energy (MeV)
21
26-Fe-53m


MAT 2623
(n,n') p
26-Fe-53m
Radionuclide Production Cross Section
25-Mn-52g
25-Mn-52m1
Cross Section (barns)
Incident Energy (MeV)
22
26-Fe-53m


MAT 2623
(n,n') t
26-Fe-53m
Radionuclide Production Cross Section
25-Mn-50g
25-Mn-50m1
Cross Section (barns)
10-4
10-6
10-8
10-10
5
2
3
4
5
6
7
8
9
10 2
2
23
Incident Energy (MeV)
26-Fe-53m


MAT 2623
(n,d)
26-Fe-53m
Radionuclide Production Cross Section
25-Mn-52g
25-Mn-52m1
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
24
Incident Energy (MeV)
26-Fe-53m