Program EVALPLOT
(Version 2015-2)
by
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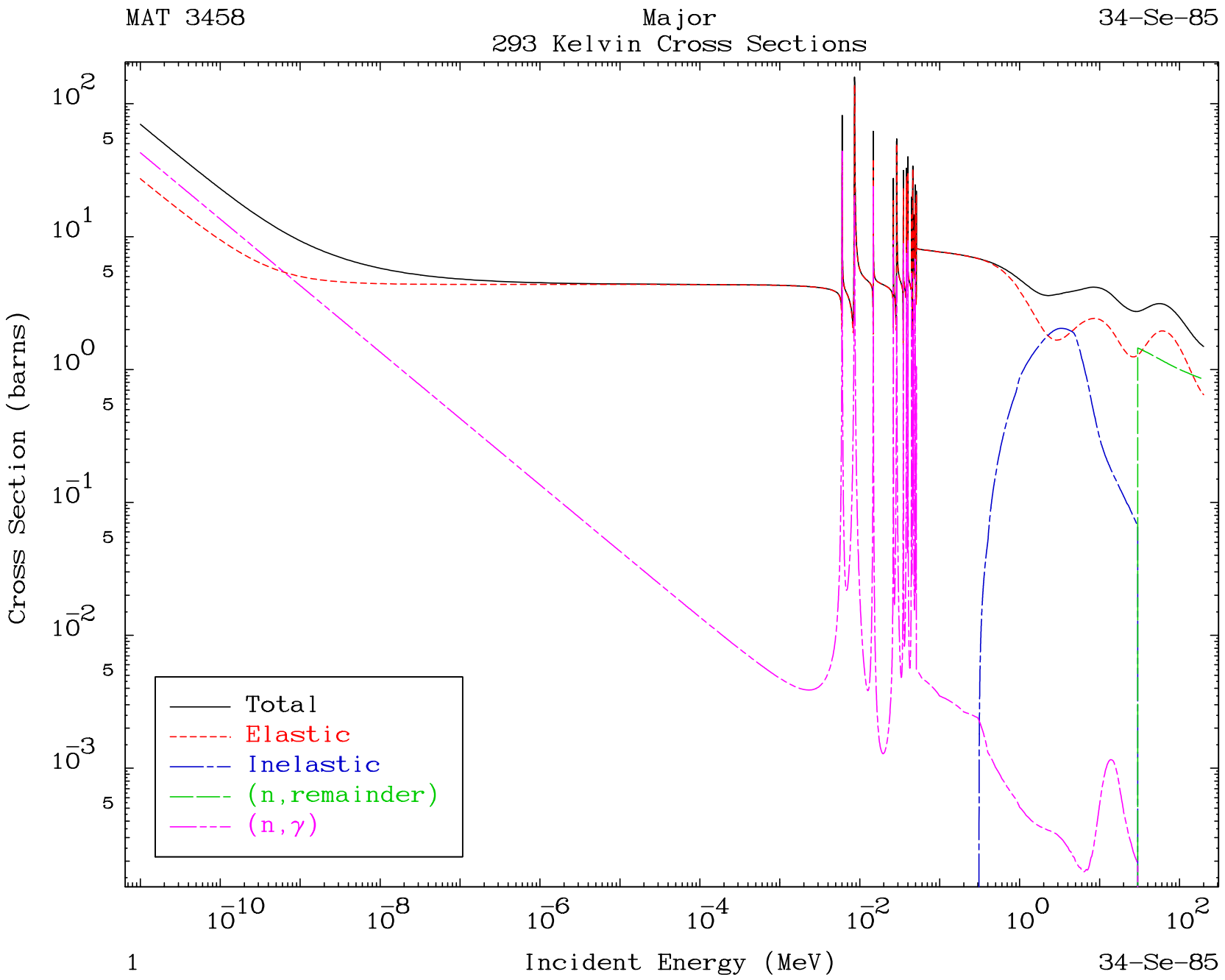
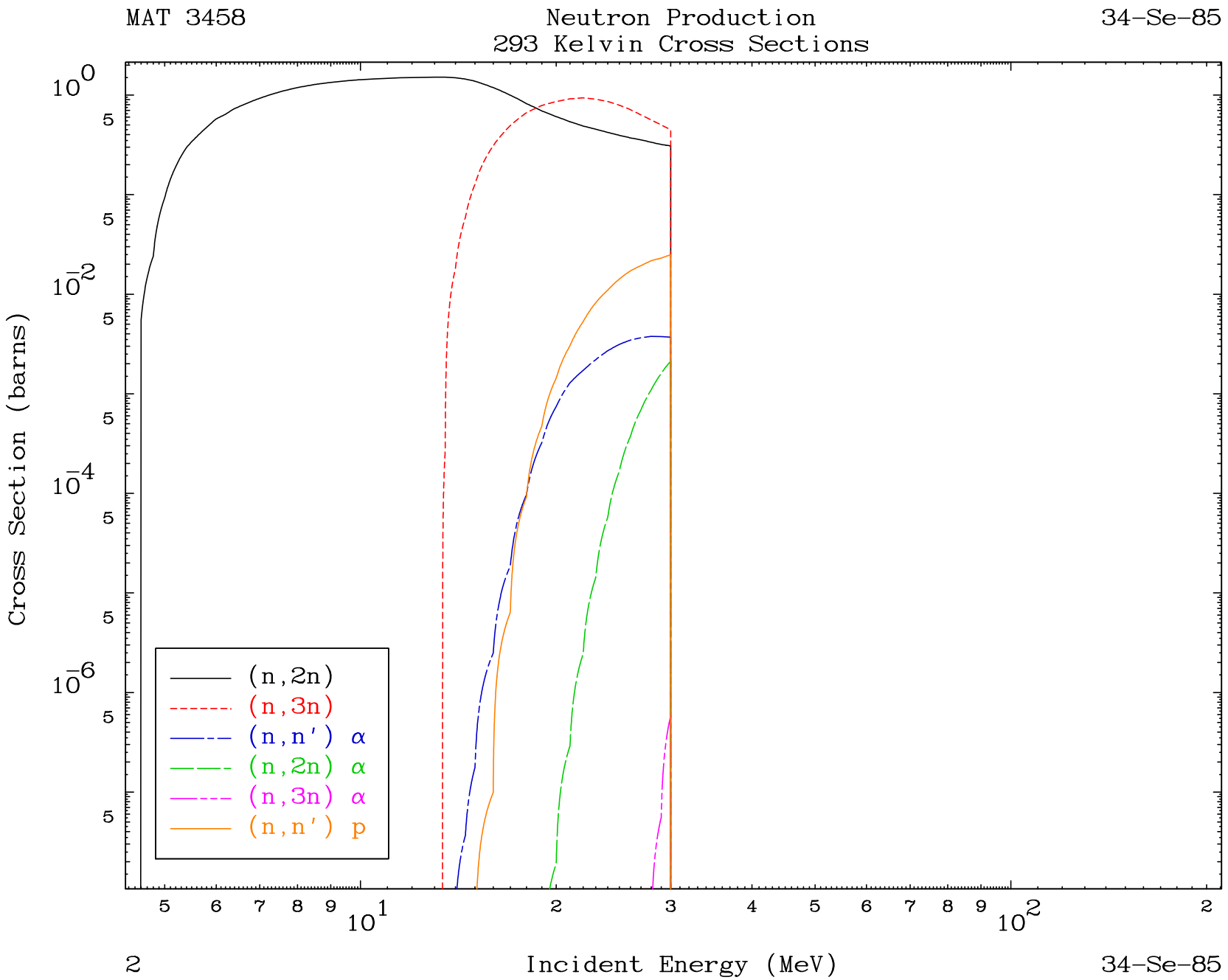
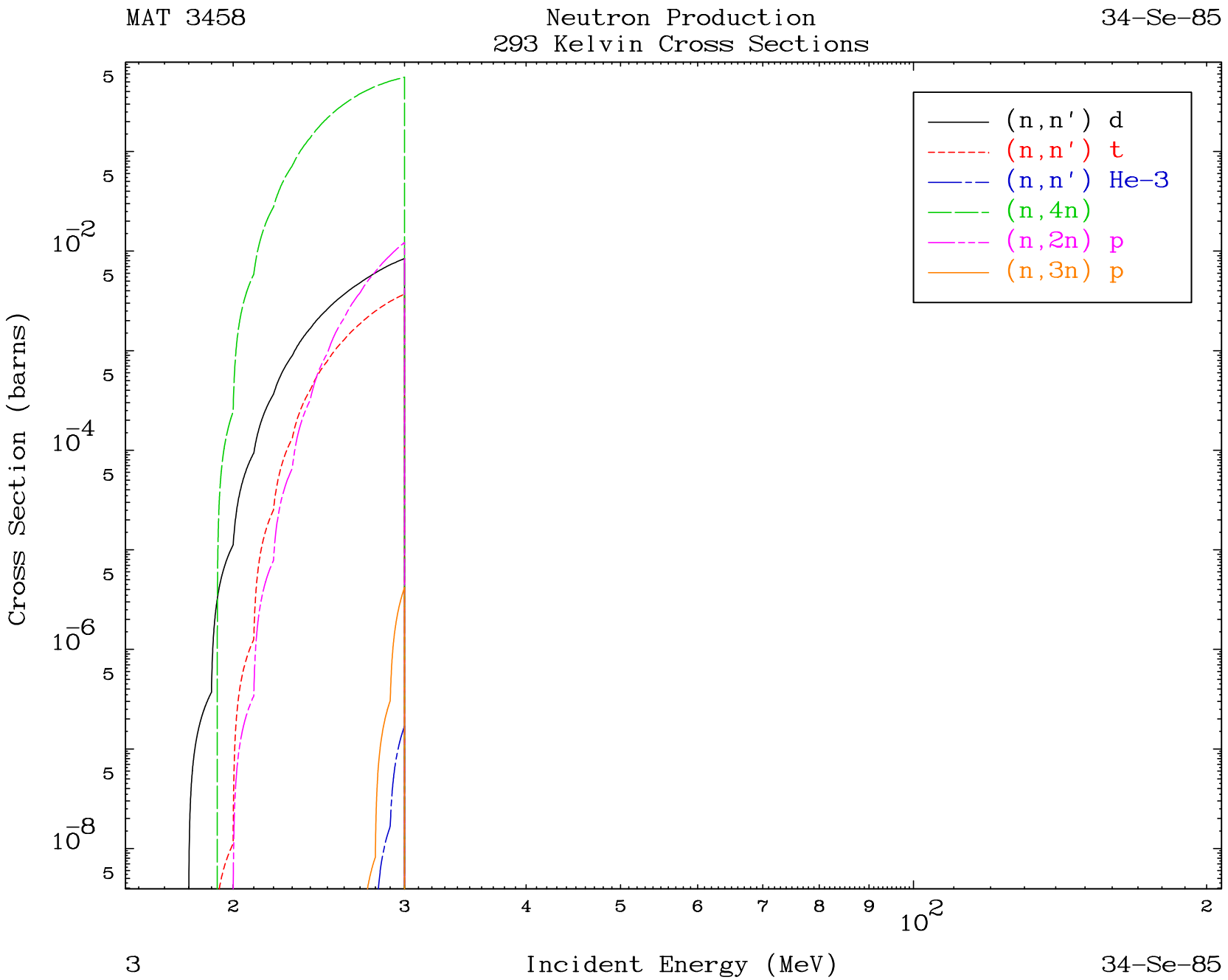
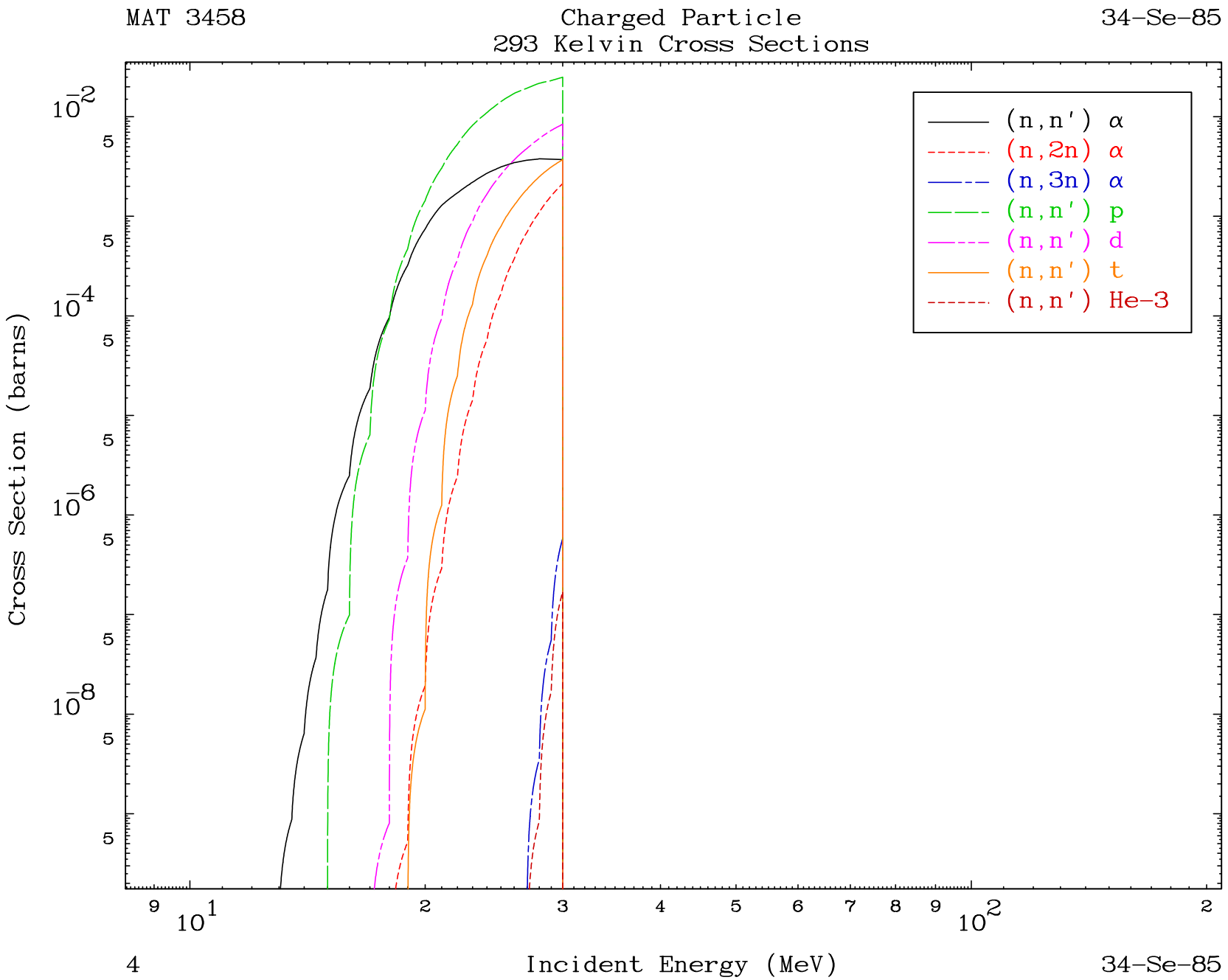
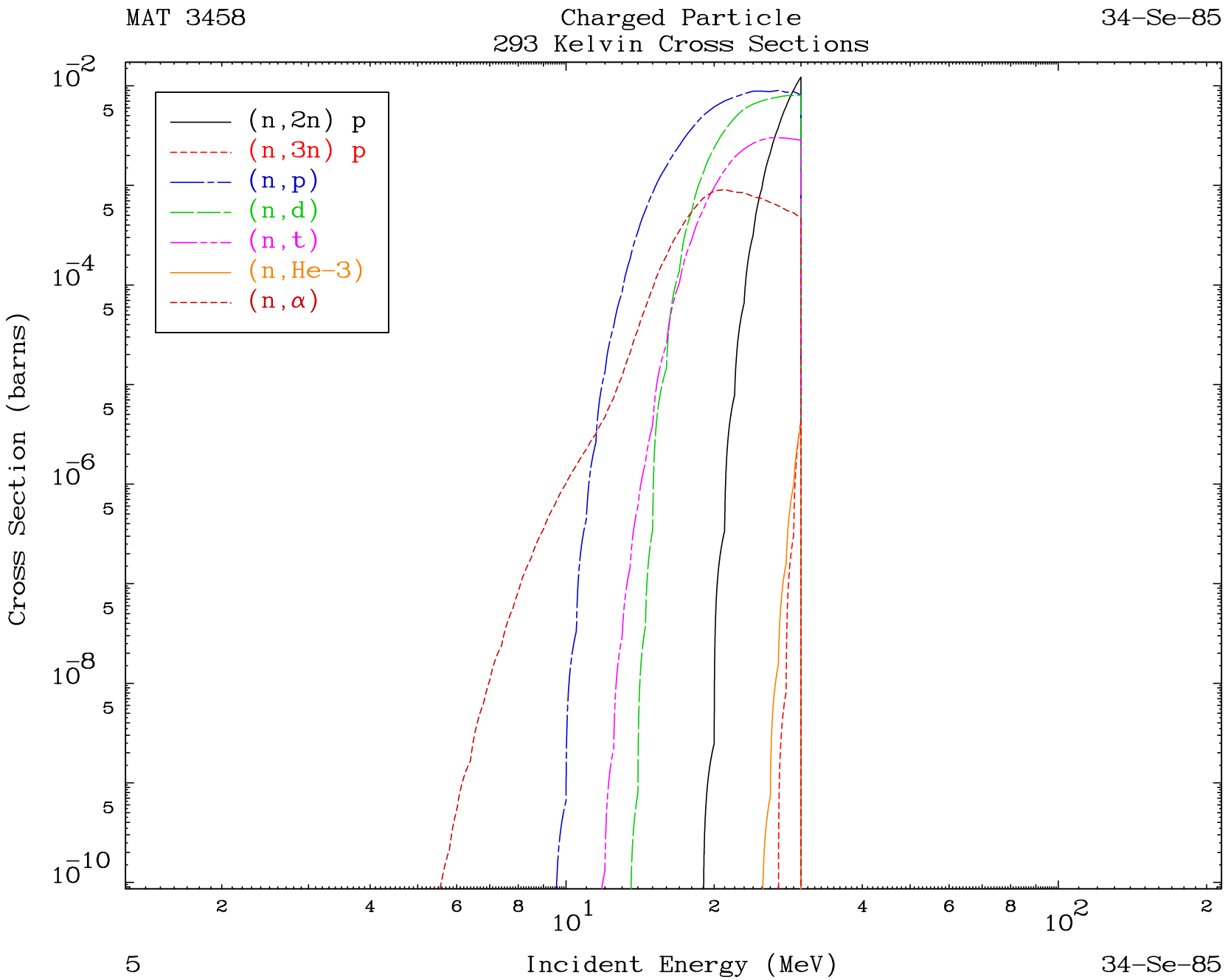
Press Mouse Button to Start

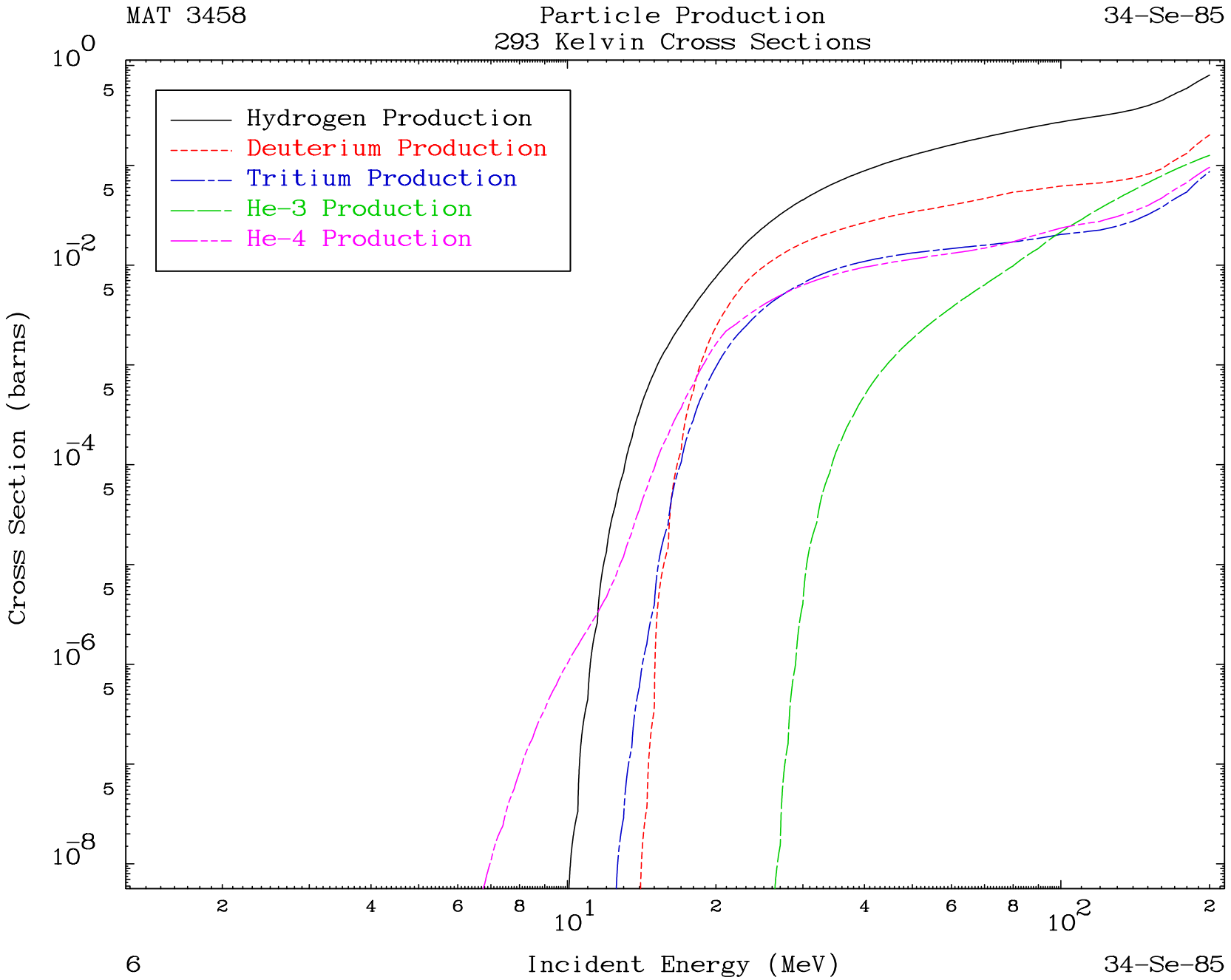

MAT 3458
Major
34-Se-85
293 Kelvin Cross Sections
Cross Section (barns)
Incident Energy (MeV)
Total
Elastic
Inelastic
(n,remainder)
(n,γ)
1
34-Se-85

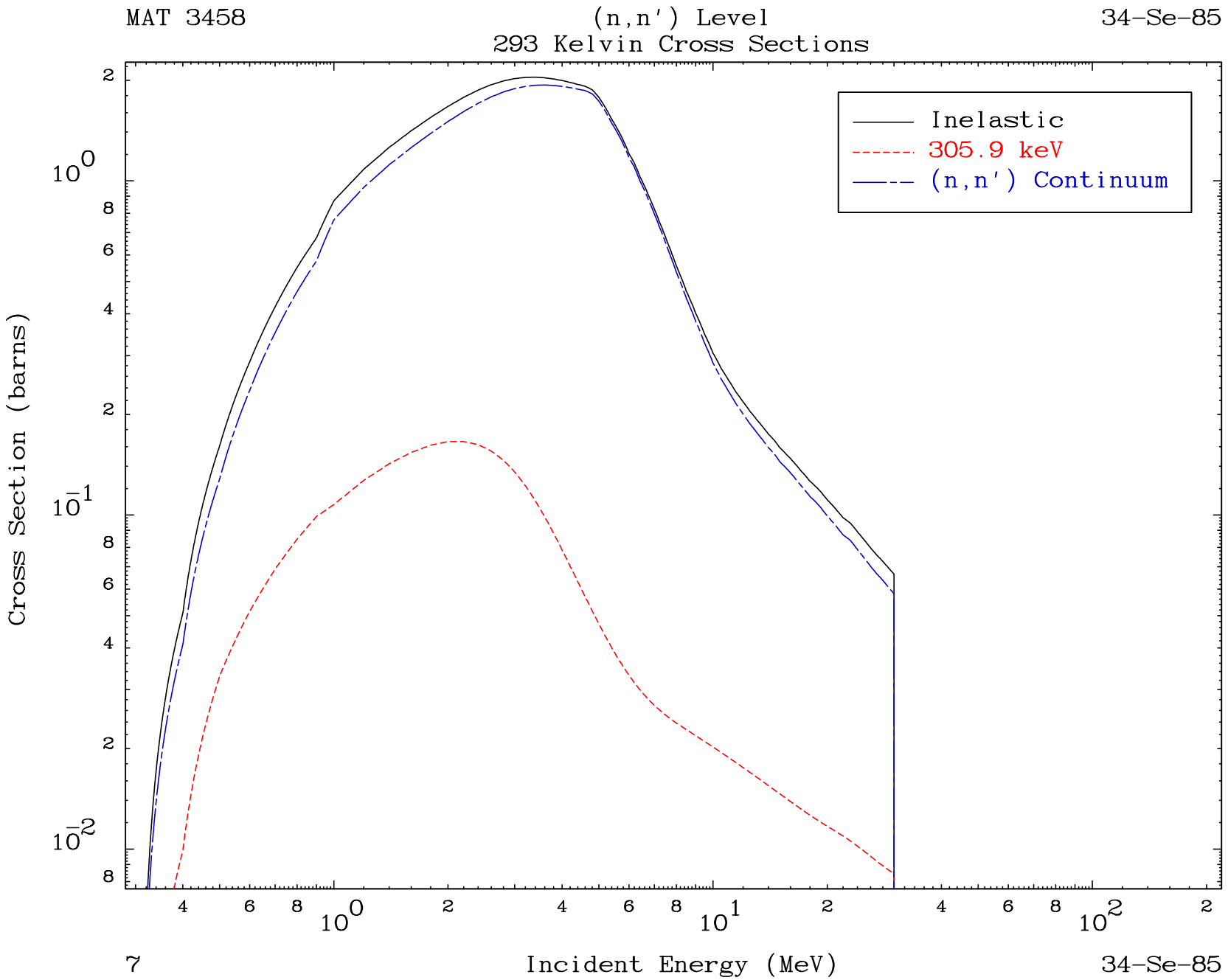

MAT 3458
Neutron Production
293 Kelvin Cross Sections
34-Se-85
Cross Section (barns)
Incident Energy (MeV)
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p

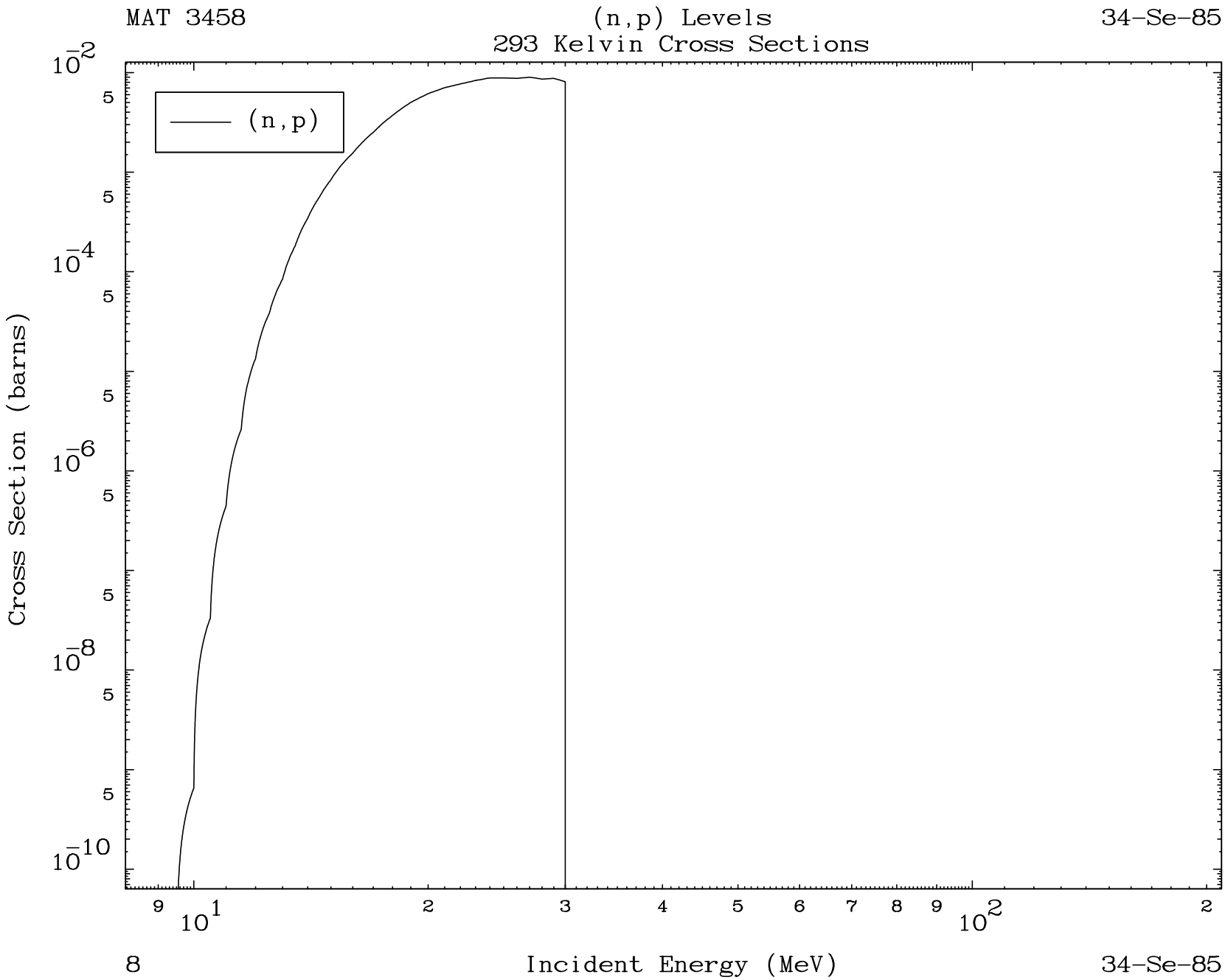

MAT 3458
Neutron Production
293 Kelvin Cross Sections
34-Se-85
(n,n') d
(n,n') t
(n,n') He-3
(n,4n)
(n,2n) p
(n,3n) p
Cross Section (barns)
Incident Energy (MeV)
3
34-Se-85

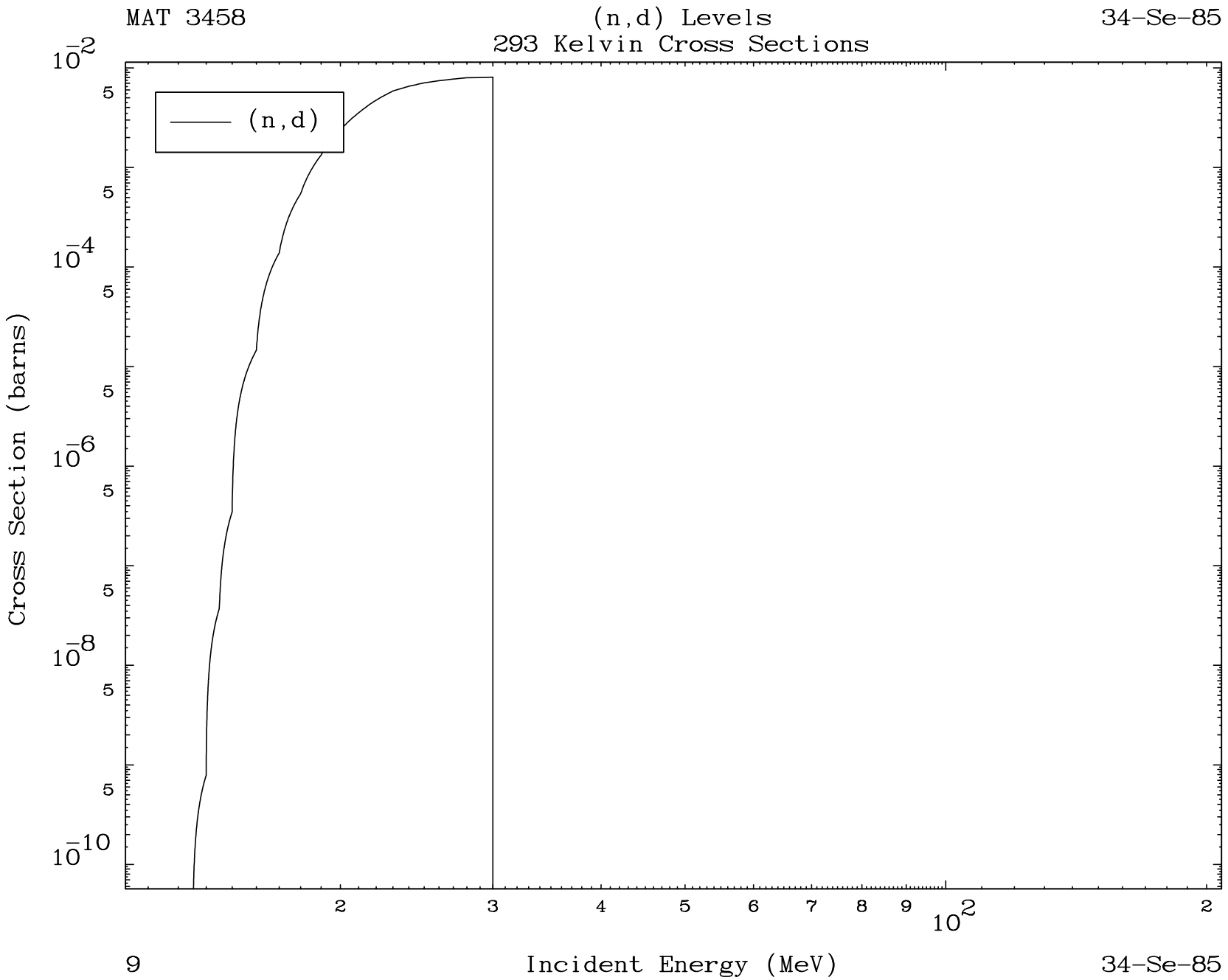

MAT 3458
Charged Particle
34-Se-85
293 Kelvin Cross Sections
Cross Section (barns)
Incident Energy (MeV)
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') d
(n,n') t
(n,n') He-3
4
34-Se-85

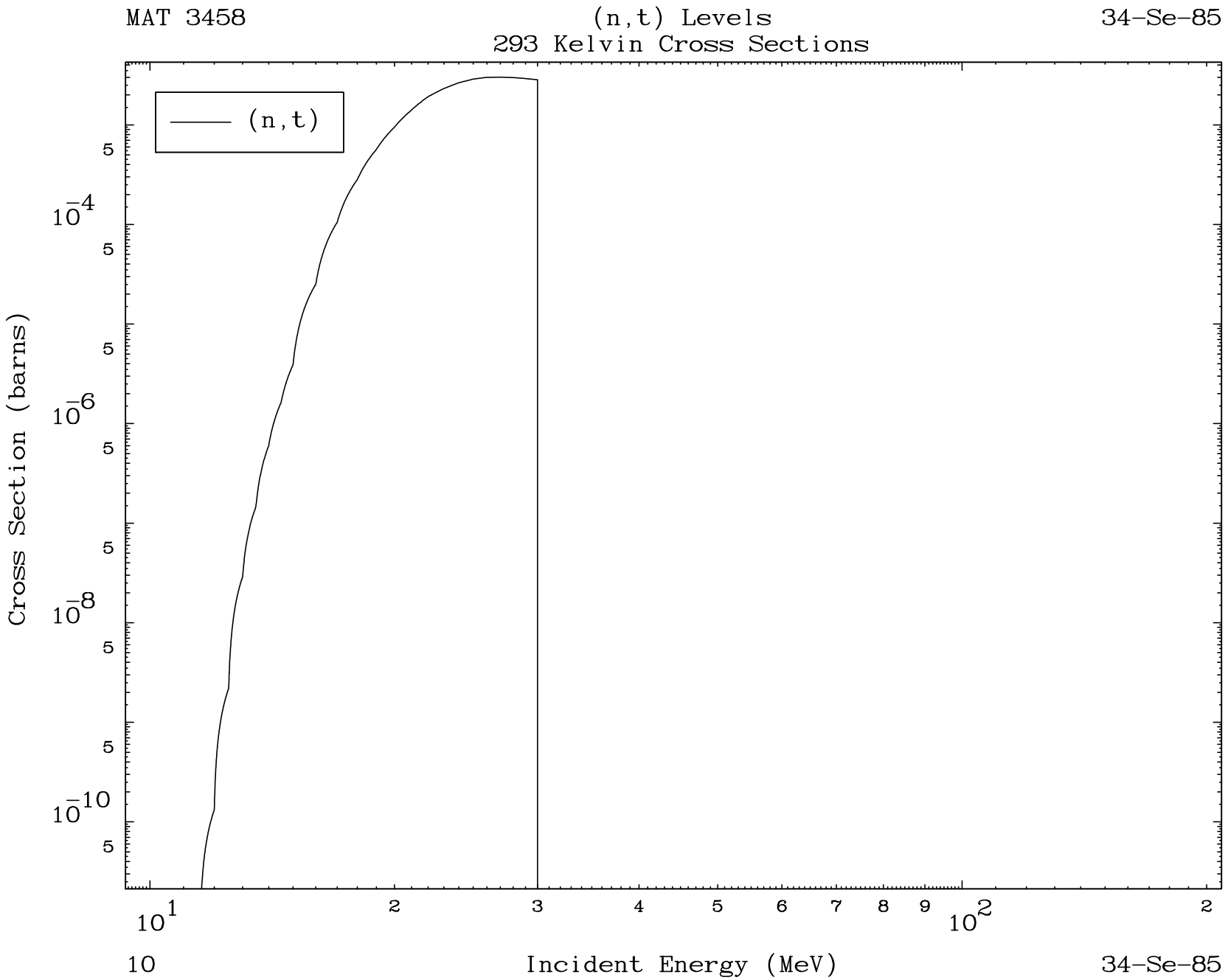

MAT 3458
Charged Particle
34-Se-85
293 Kelvin Cross Sections
(n,2n) p
(n,3n) p
(n,p)
(n,d)
(n,t)
(n,He-3)
(n,α)
Cross Section (barns)
Incident Energy (MeV)
34-Se-85
5

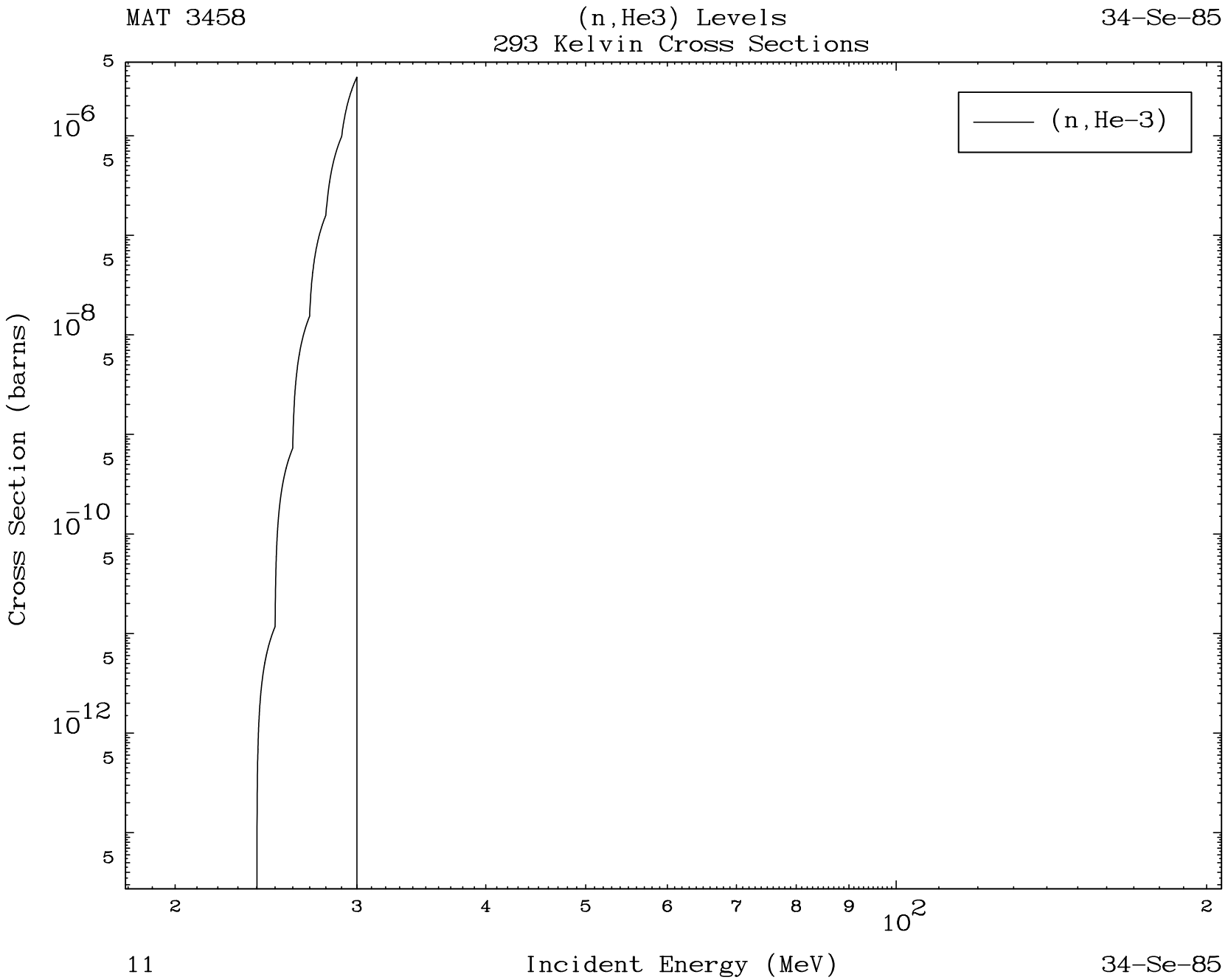

MAT 3458
Particle Production
293 Kelvin Cross Sections
34-Se-85
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production
Cross Section (barns)
Incident Energy (MeV)
6
34-Se-85

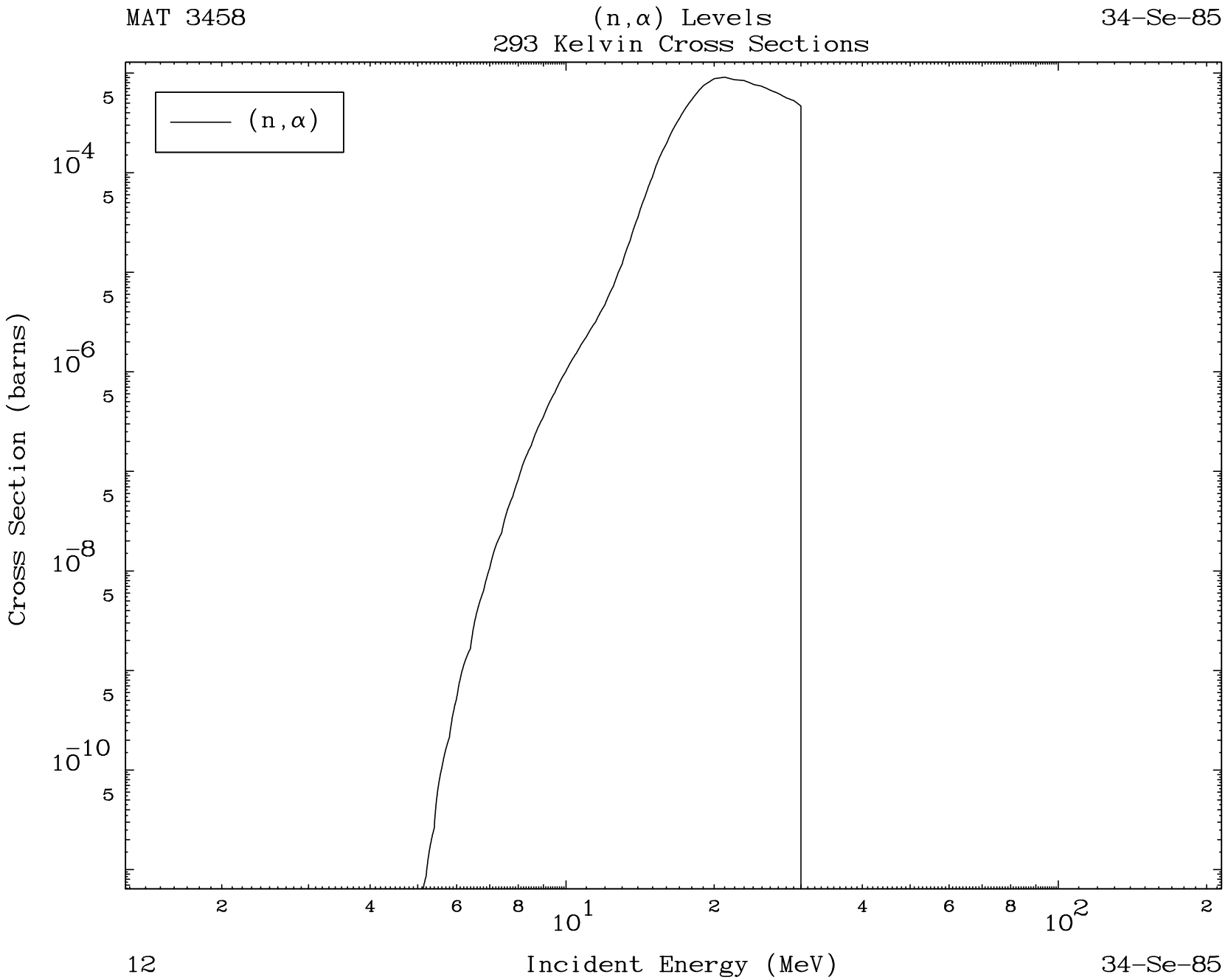

MAT 3458
(n,n') Level
34-Se-85
293 Kelvin Cross Sections
Inelastic
305.9 keV
(n,n') Continuum
Cross Section (barns)
Incident Energy (MeV)
7
34-Se-85

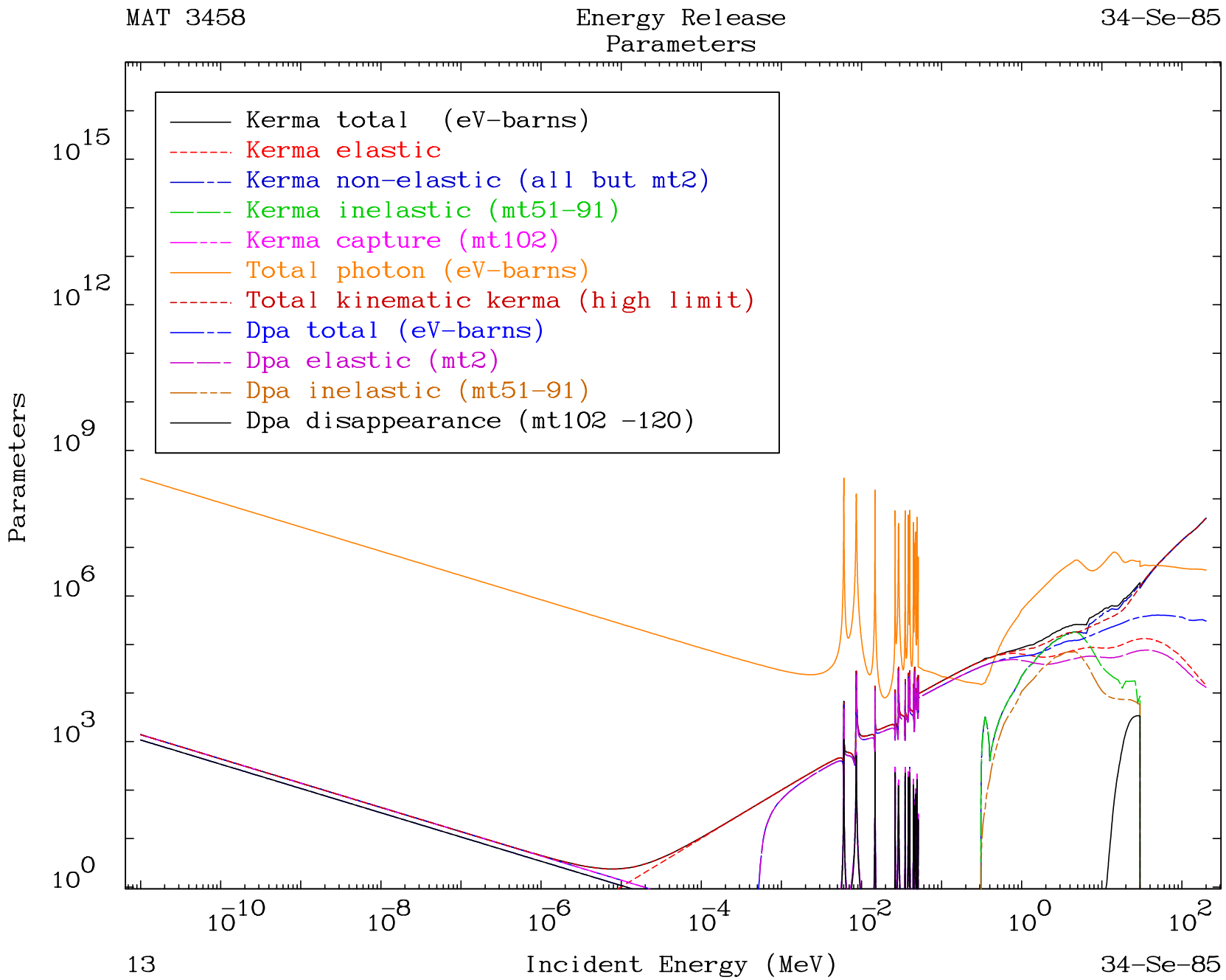

MAT 3458
(n,p) Levels
34-Se-85
293 Kelvin Cross Sections
(n,p)
Cross Section (barns)
Incident Energy (MeV)
8
34-Se-85

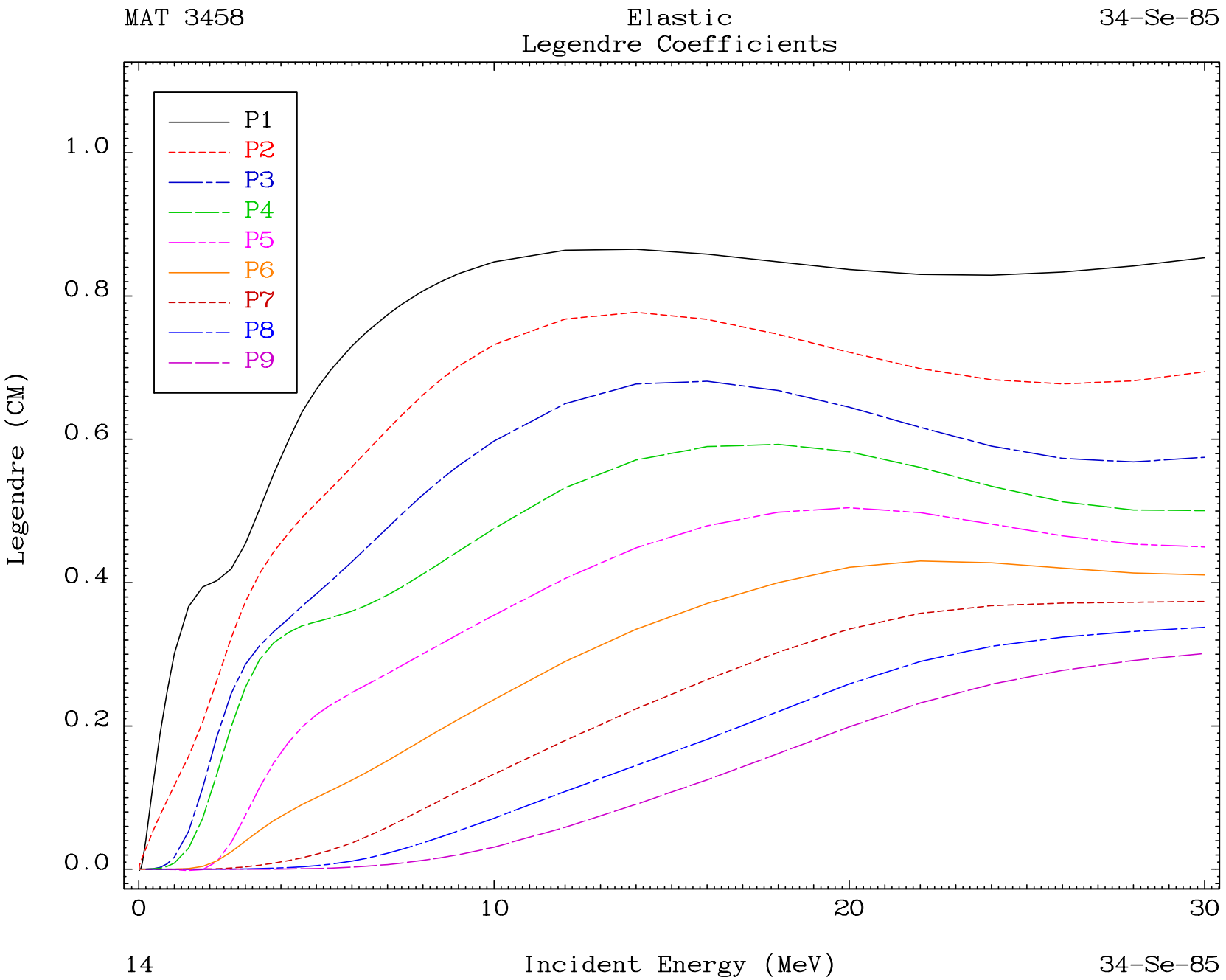

MAT 3458
(n,d) Levels
34-Se-85
293 Kelvin Cross Sections
(n,d)
Cross Section (barns)
Incident Energy (MeV)
9
34-Se-85

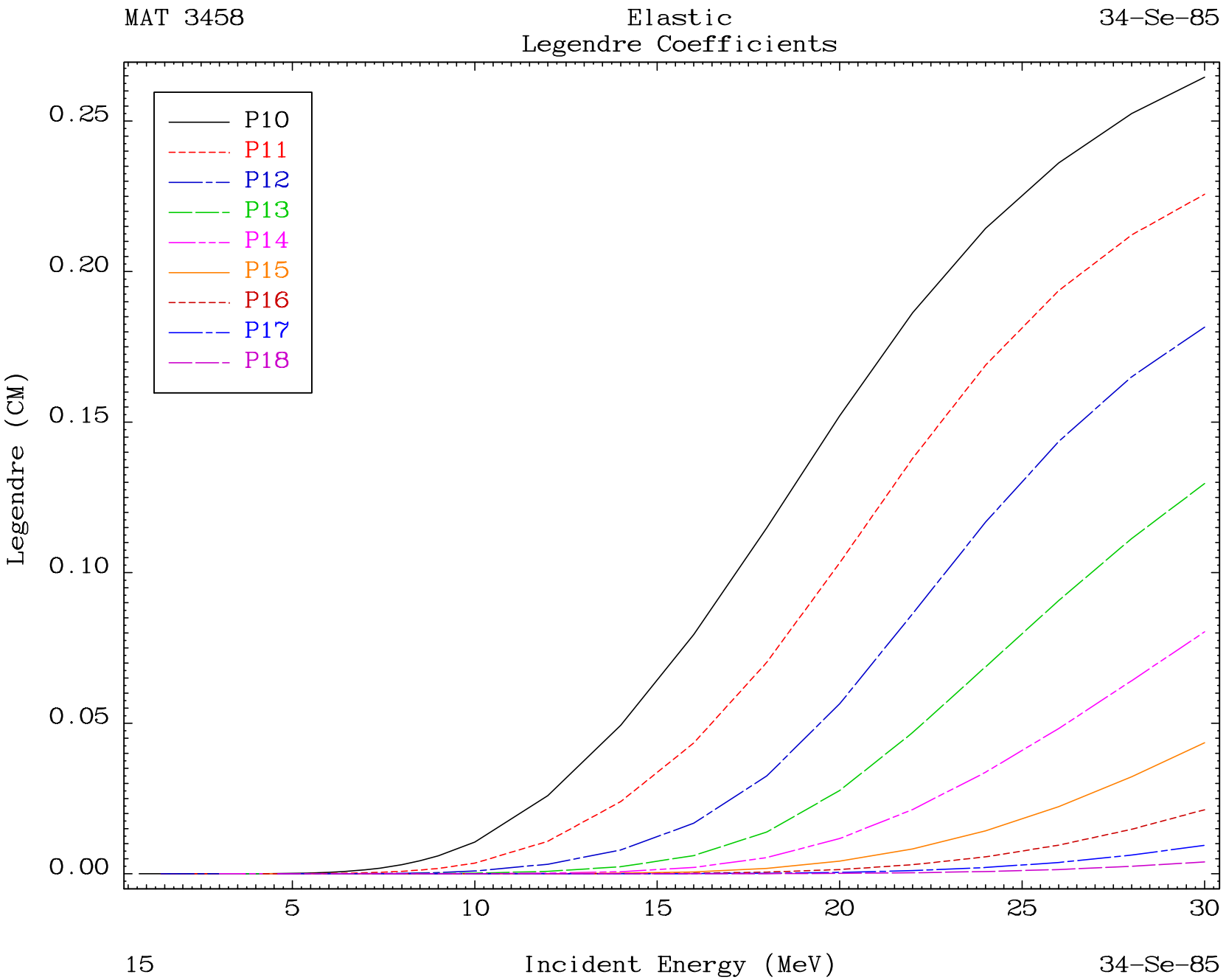

MAT 3458
(n,t) Levels
34-Se-85
293 Kelvin Cross Sections
(n,t)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^1
10^2
Incident Energy (MeV)
34-Se-85

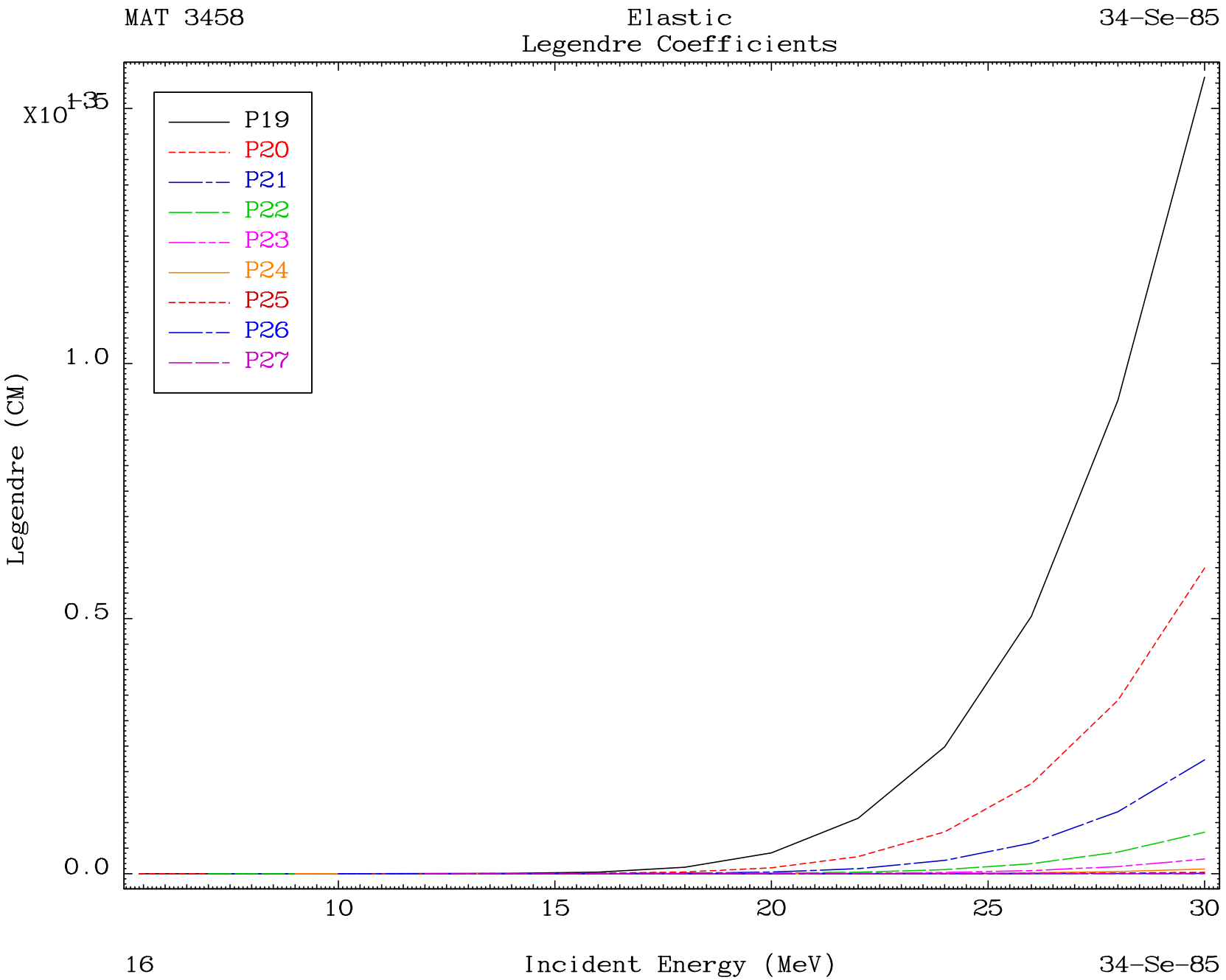

MAT 3458
(n,He3) Levels
34-Se-85
293 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
10-6
10-8
10-10
10-12
5
2
3
4
5
6
7
8
9
10 2
2
11
Incident Energy (MeV)
34-Se-85

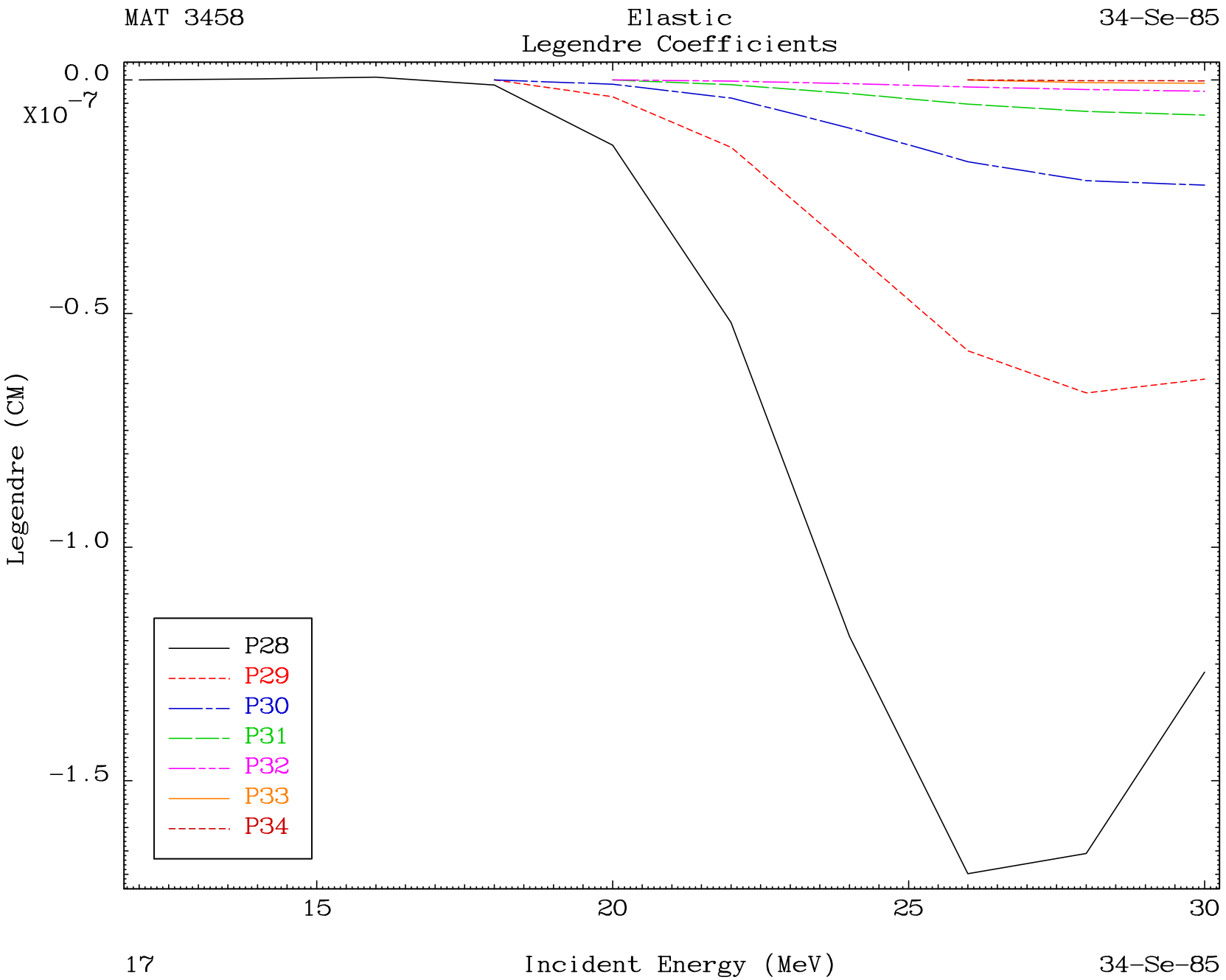

MAT 3458
(n,α) Levels
34-Se-85
293 Kelvin Cross Sections
(n,α)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
2
4
6
8
10^1
10^2
12
Incident Energy (MeV)
34-Se-85

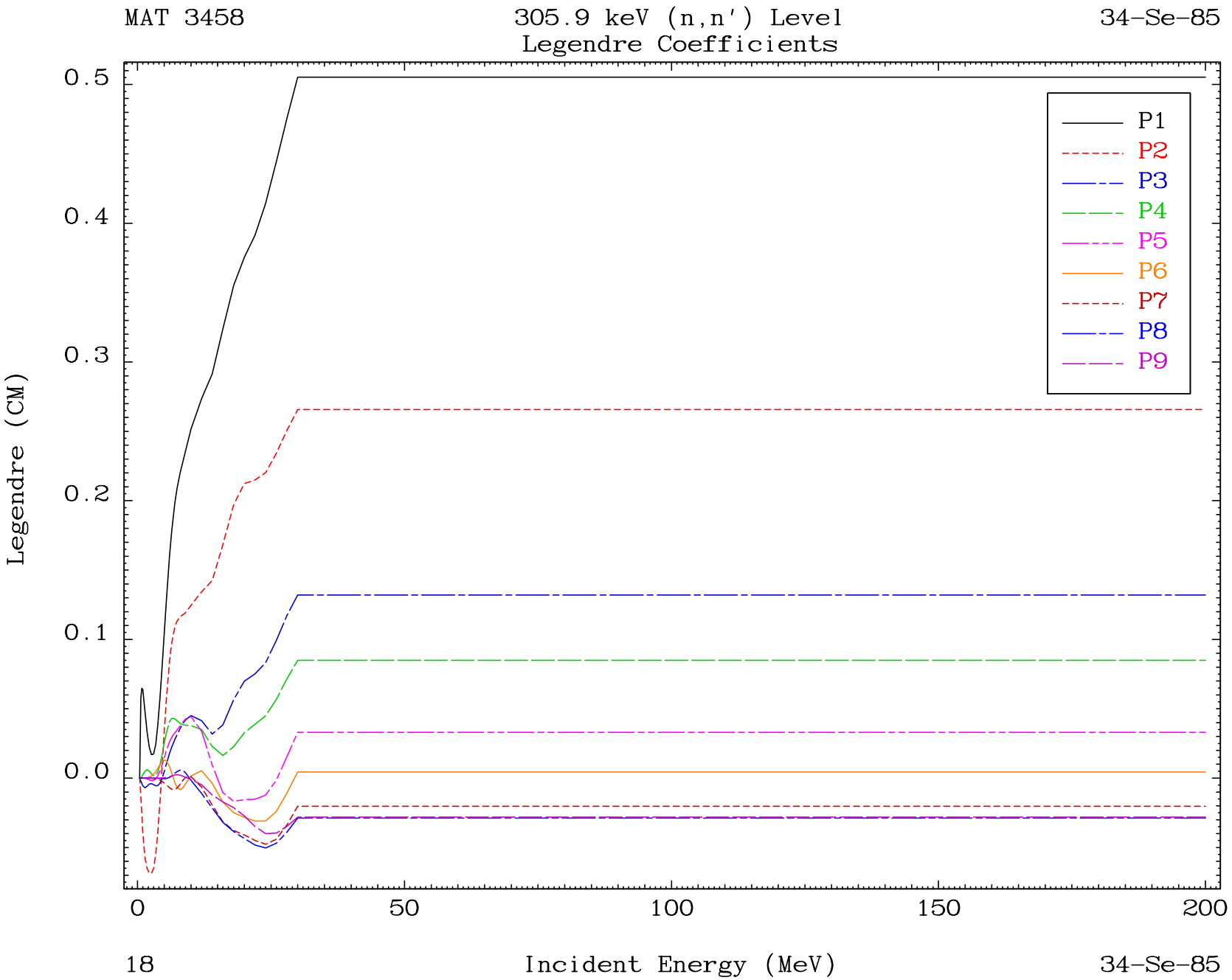

MAT 3458
Energy Release
Parameters
34-Se-85
Kerma total (eV-barns)
Kerma elastic
Kerma non-elastic (all but mt2)
Kerma inelastic (mt51-91)
Kerma capture (mt102)
Total photon (eV-barns)
Total kinematic kerma (high limit)
Dpa total (eV-barns)
Dpa elastic (mt2)
Dpa inelastic (mt51-91)
Dpa disappearance (mt102 -120)
Parameters
10^15
10^12
10^9
10^6
10^3
10^0
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
13
Incident Energy (MeV)
34-Se-85

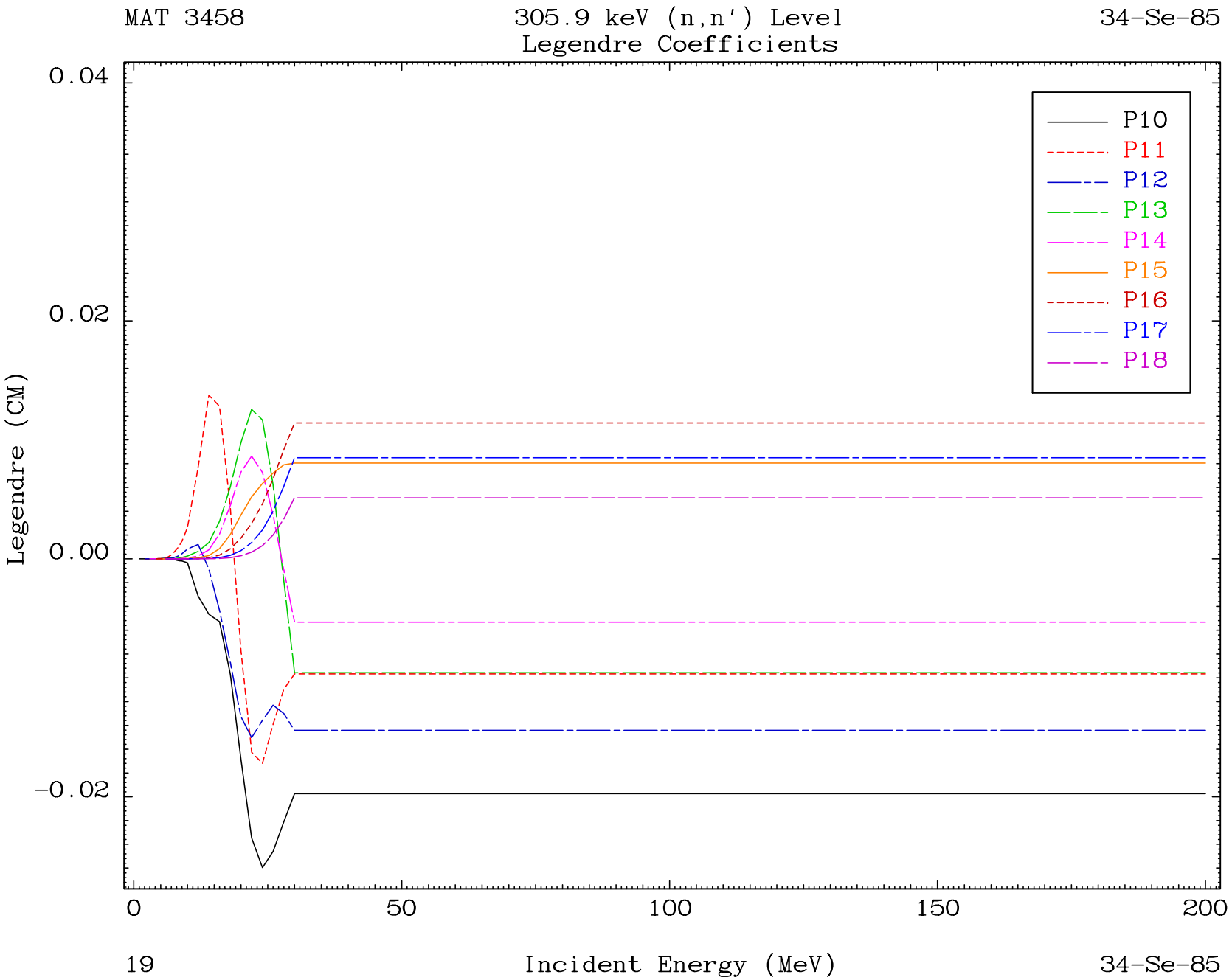

MAT 3458
Elastic
Legendre Coefficients
34-Se-85
P1
P2
P3
P4
P5
P6
P7
P8
P9
Legendre (CM)
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
14
Incident Energy (MeV)
34-Se-85

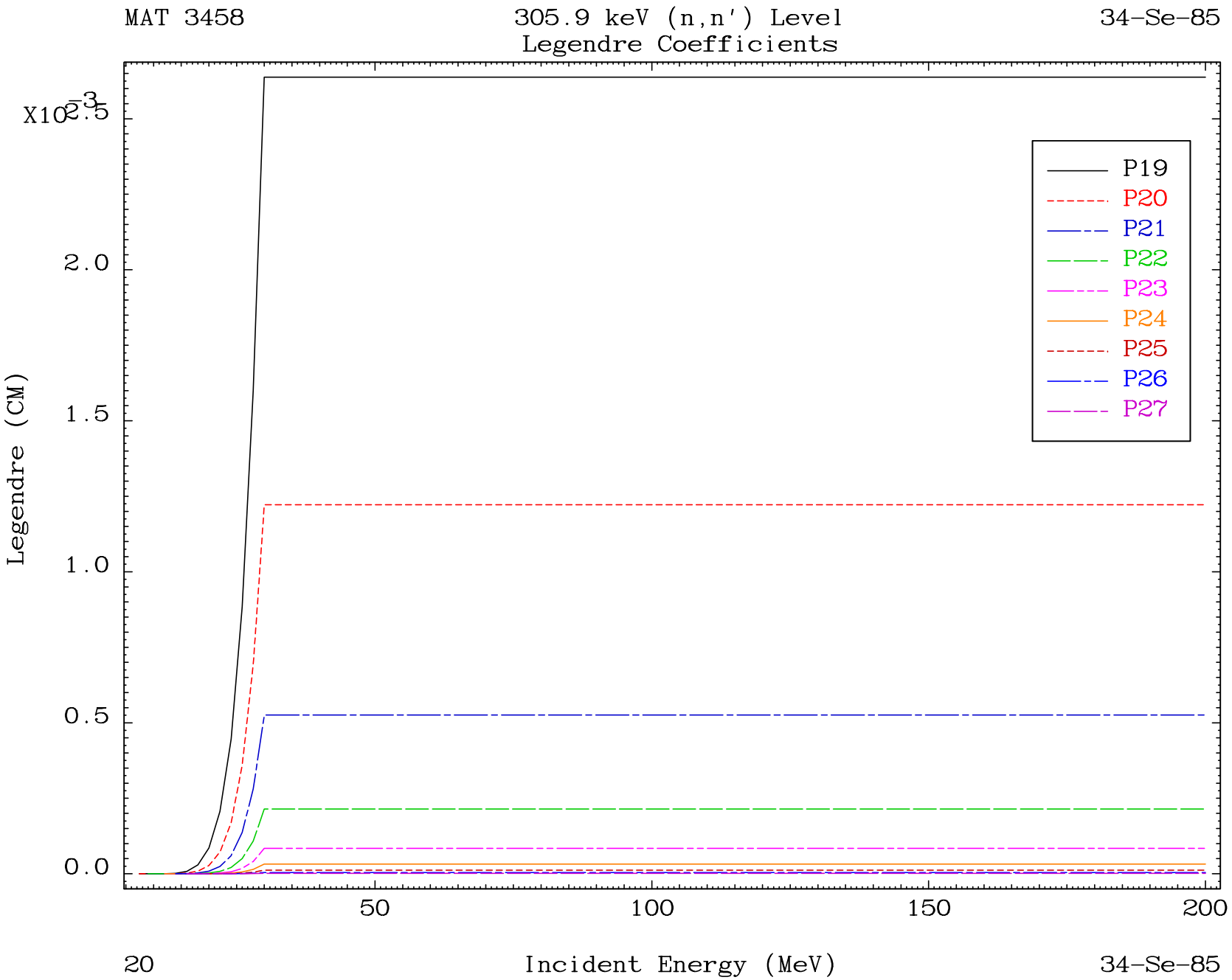

MAT 3458
Elastic
Legendre Coefficients
34-Se-85
P10
P11
P12
P13
P14
P15
P16
P17
P18
Legendre (CM)
0.25
0.20
0.15
0.10
0.05
0.00
5
10
15
20
25
30
15
Incident Energy (MeV)
34-Se-85

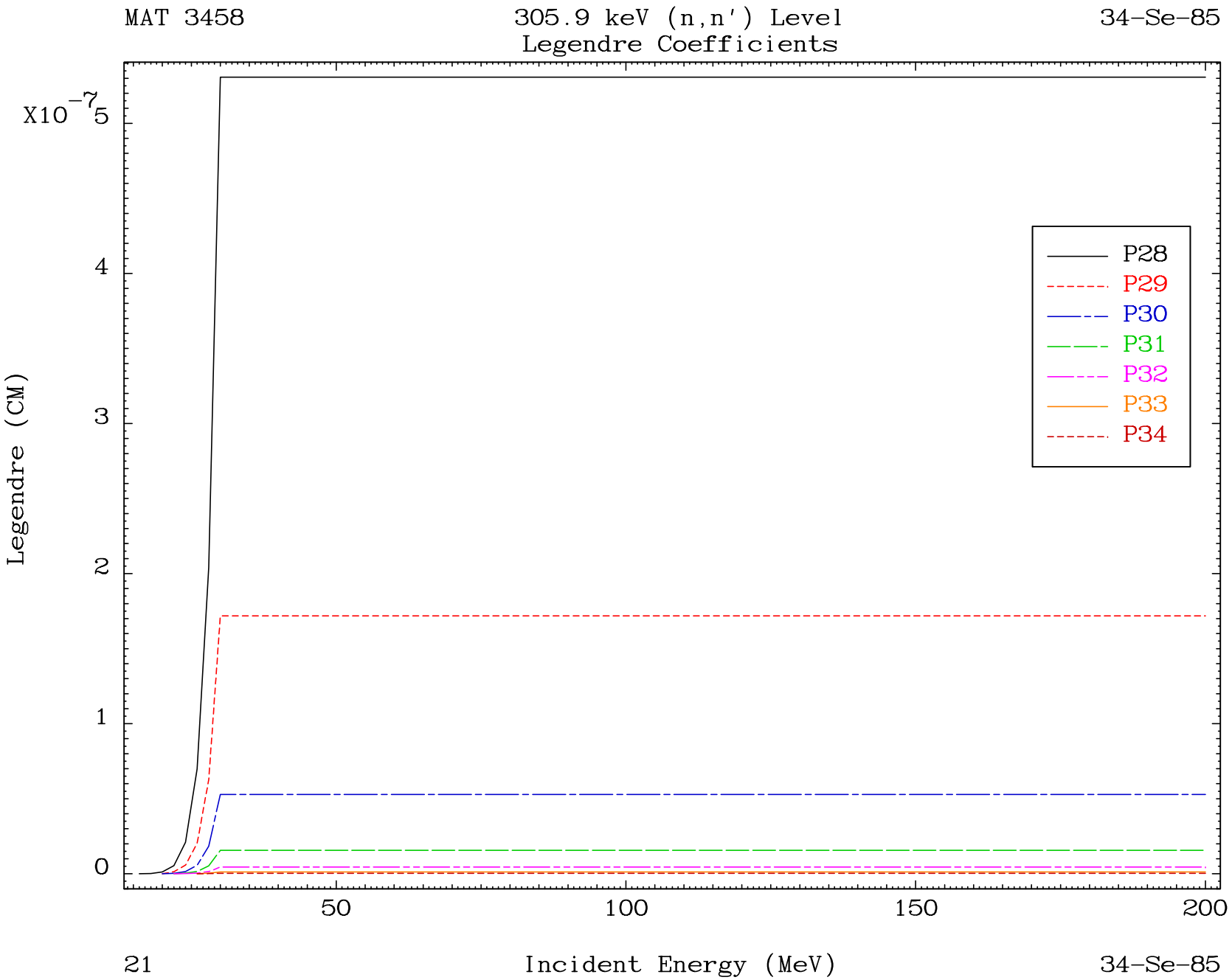

MAT 3458
Elastic
Legendre Coefficients
34-Se-85
X10+35
P19
P20
P21
P22
P23
P24
P25
P26
P27
1.0
0.5
0.0
Legendre (CM)
10
15
20
25
30
16
Incident Energy (MeV)
34-Se-85

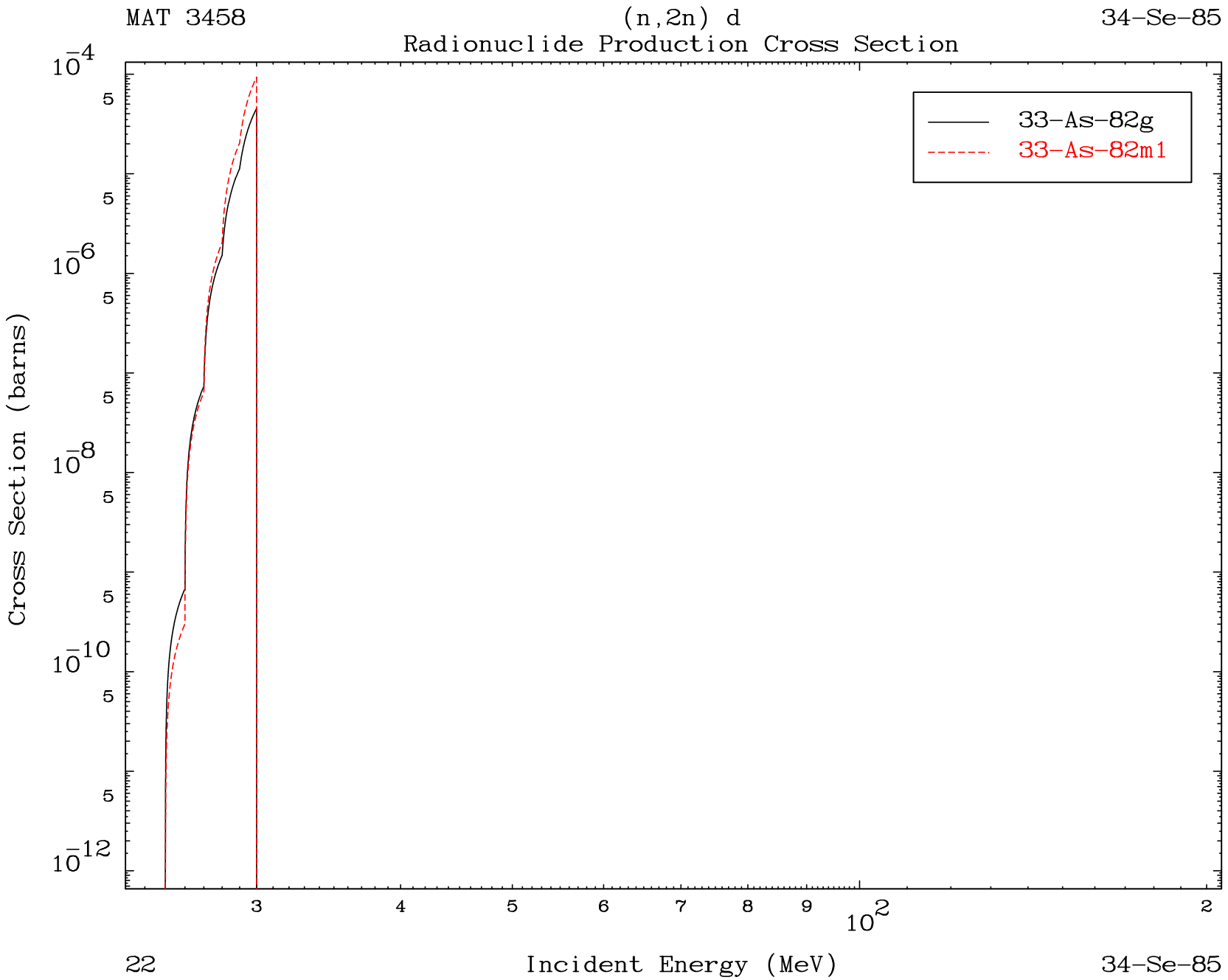

MAT 3458
Elastic
Legendre Coefficients
34-Se-85
0.0
X10-7
-0.5
-1.0
-1.5
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
15
20
25
30
17
Incident Energy (MeV)
34-Se-85

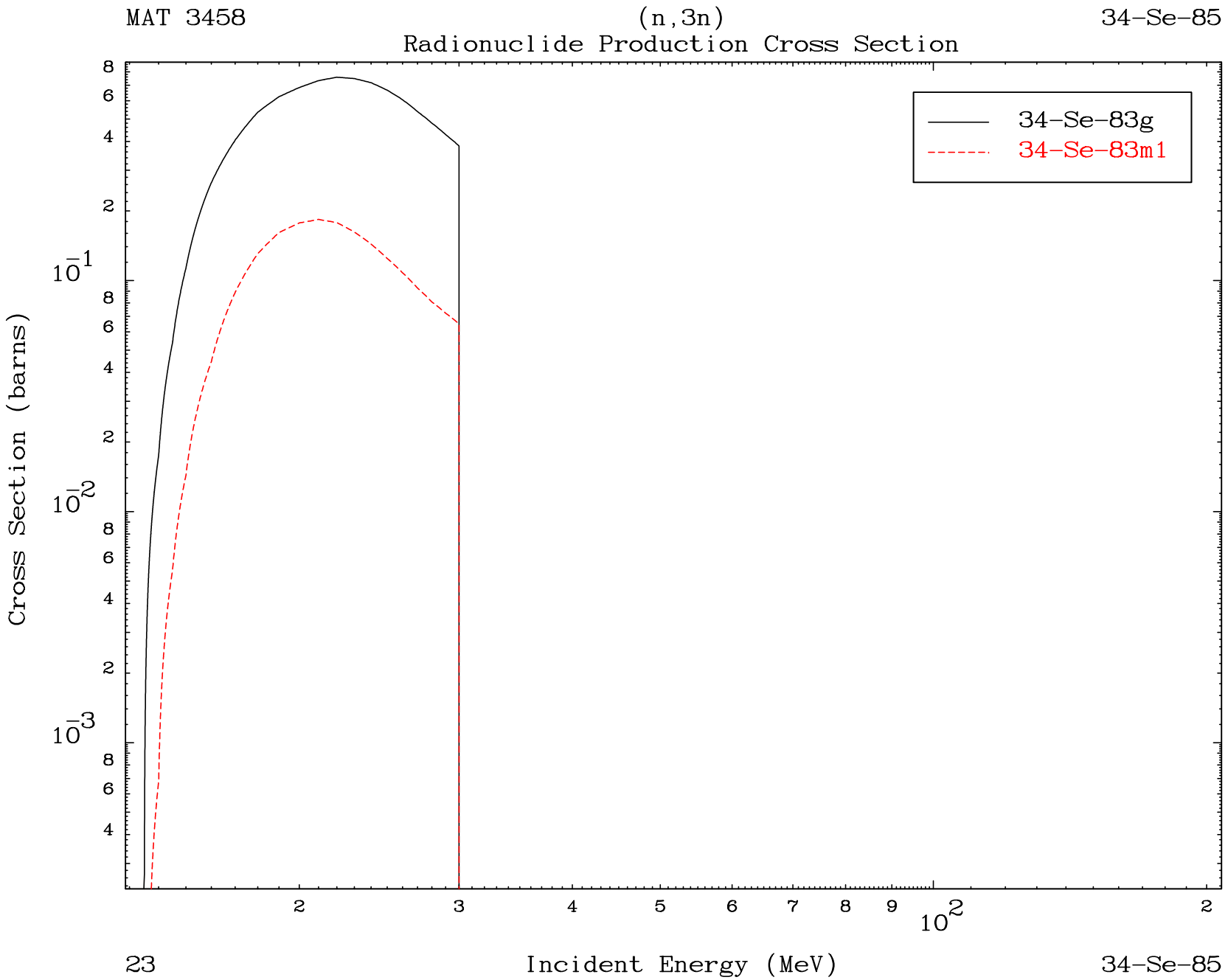

MAT 3458
305.9 keV (n,n') Level
Legendre Coefficients
34-Se-85
0.5
0.4
0.3
0.2
0.1
0.0
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
18
Incident Energy (MeV)
34-Se-85

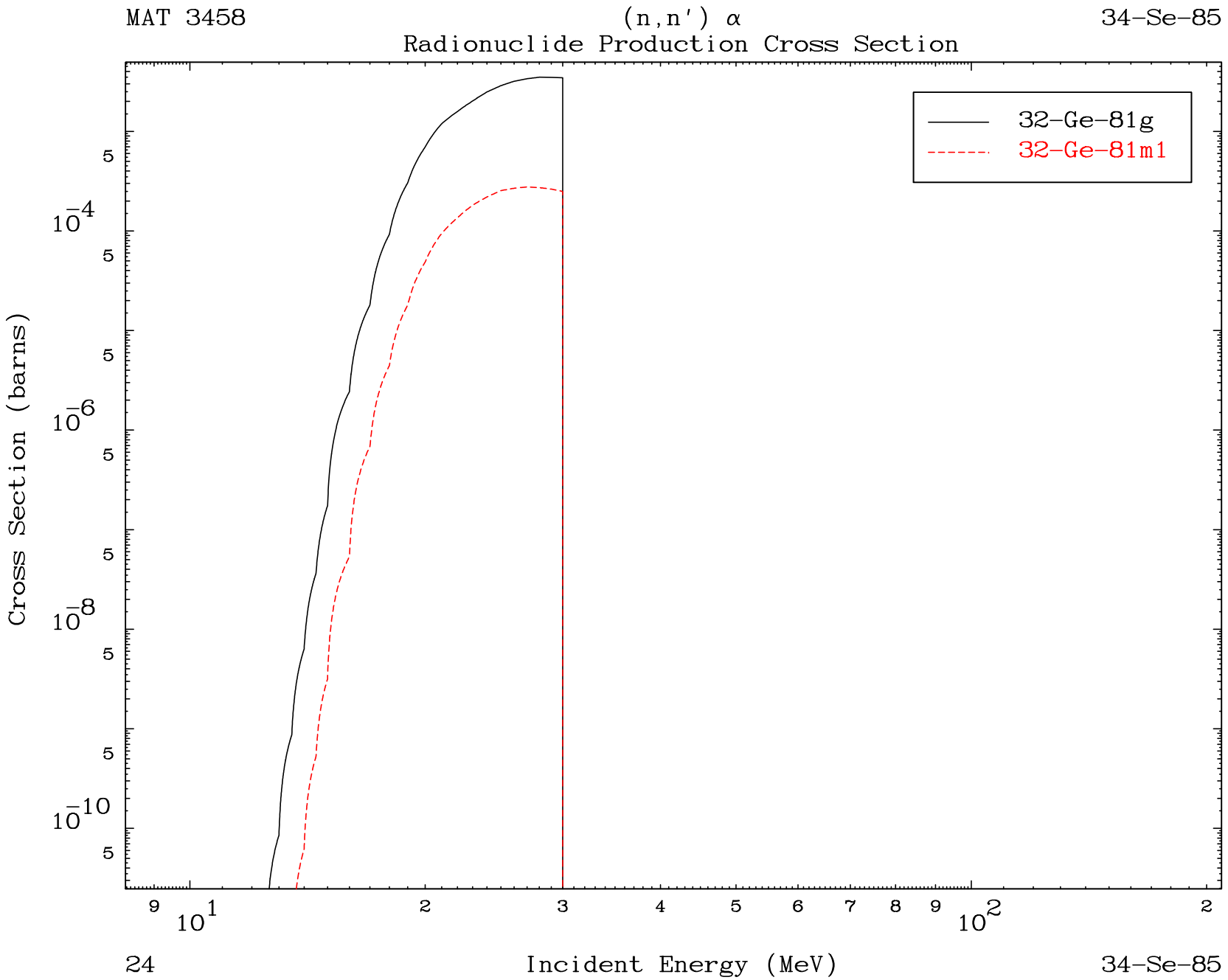

MAT 3458
305.9 keV (n,n') Level
Legendre Coefficients
34-Se-85
0.04
0.02
0.00
-0.02
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
19
Incident Energy (MeV)
34-Se-85

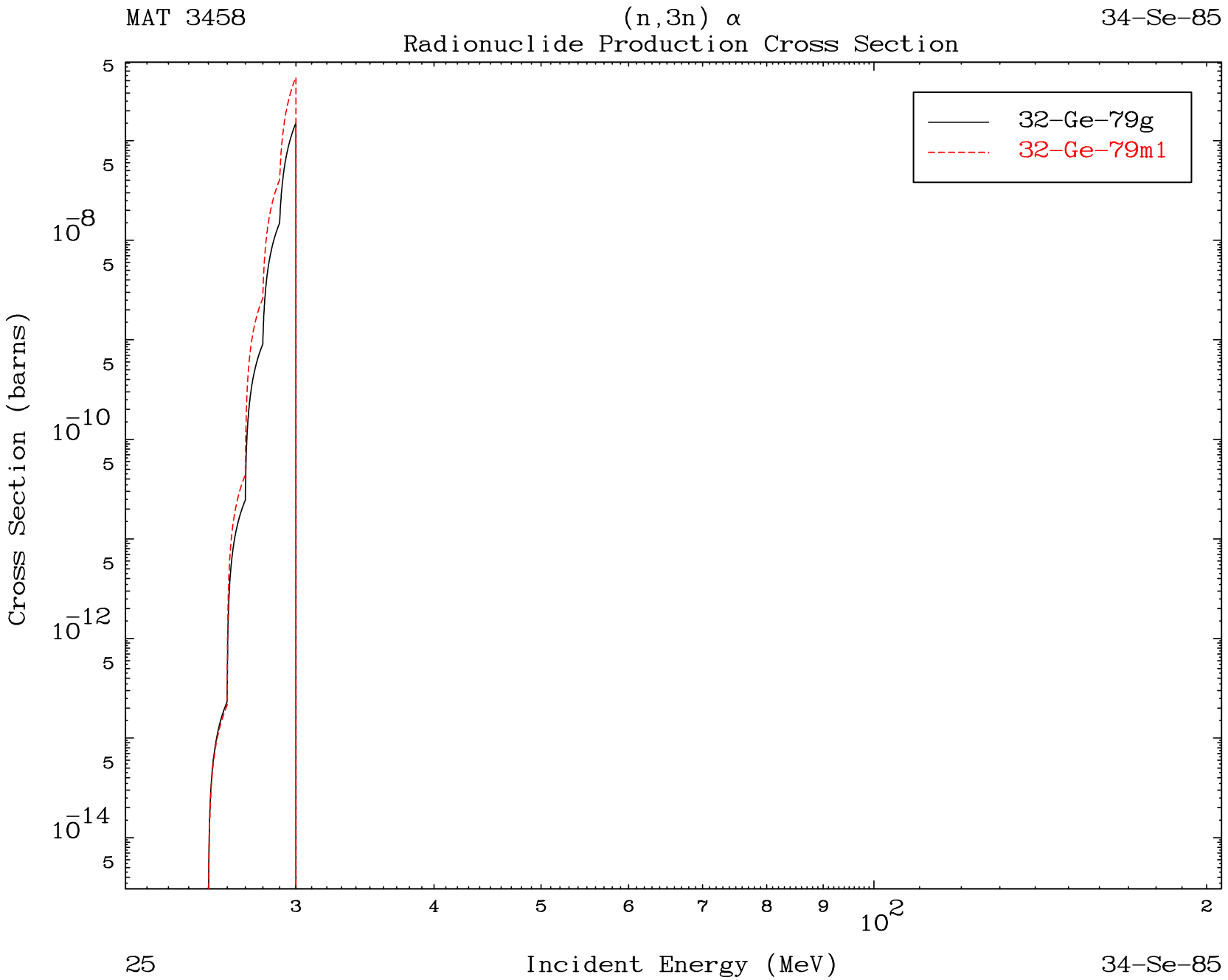

MAT 3458
305.9 keV (n,n') Level
Legendre Coefficients
34-Se-85
X10-3
2.5
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
20
Incident Energy (MeV)
34-Se-85

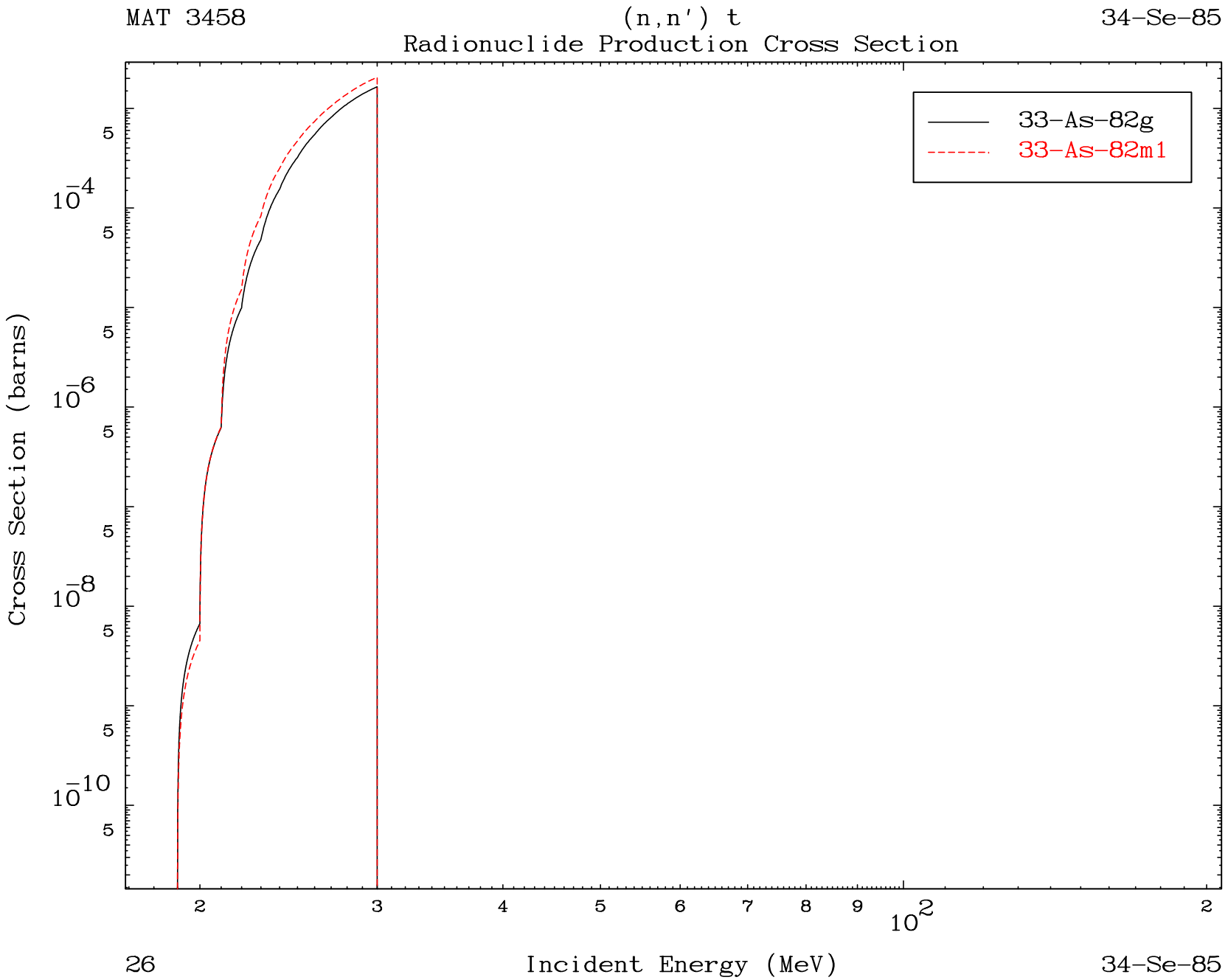

MAT 3458
305.9 keV (n,n') Level
Legendre Coefficients
34-Se-85
X10^-7
5
4
3
2
1
0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
21
Incident Energy (MeV)
34-Se-85

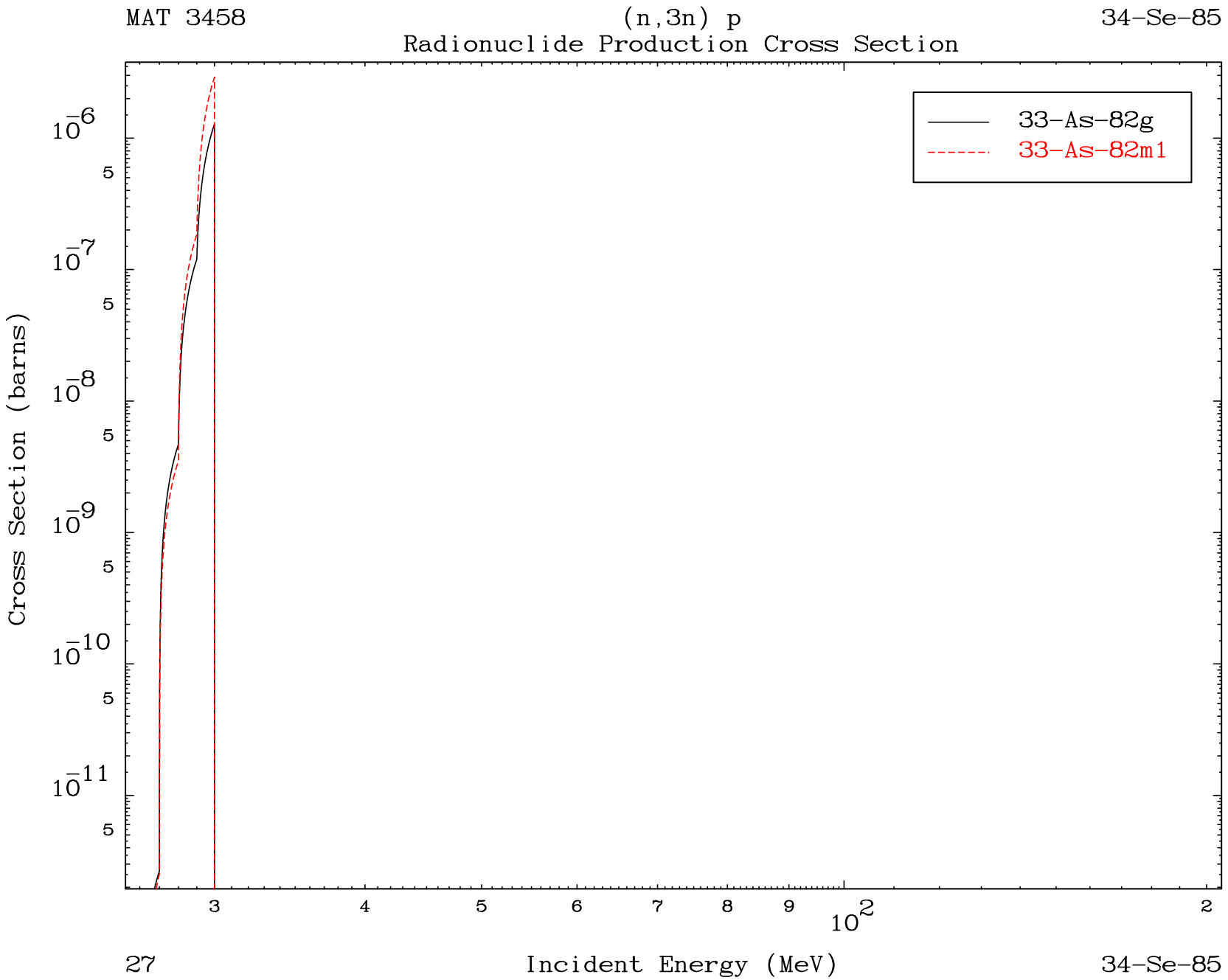

MAT 3458
(n,2n) d
34-Se-85
Radionuclide Production Cross Section
33-As-82g
33-As-82m1
Cross Section (barns)
Incident Energy (MeV)
22
34-Se-85


MAT 3458
(n,3n)
34-Se-85
Radionuclide Production Cross Section
34-Se-83g
34-Se-83m1
Cross Section (barns)
Incident Energy (MeV)
23
34-Se-85


MAT 3458
(n,n') α
34-Se-85
Radionuclide Production Cross Section
32-Ge-81g
32-Ge-81m1
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
9
10^1
2
3
4
5
6
7
8
9
10^2
2
24
Incident Energy (MeV)
34-Se-85


MAT 3458
(n,3n) α
34-Se-85
Radionuclide Production Cross Section
32-Ge-79g
32-Ge-79m1
Cross Section (barns)
10^-8
10^-10
10^-12
10^-14
5
3
4
5
6
7
8
9
10^2
2
25
Incident Energy (MeV)
34-Se-85


MAT 3458
(n,n') t
34-Se-85
Radionuclide Production Cross Section
33-As-82g
33-As-82m1
Cross Section (barns)
10-4
10-6
10-8
10-10
2
3
4
5
6
7
8
9
10 2
2
26
Incident Energy (MeV)
34-Se-85


MAT 3458
(n,3n) p
34-Se-85
Radionuclide Production Cross Section
33-As-82g
33-As-82m1
Cross Section (barns)
10-6
10-7
10-8
10-9
10-10
10-11
3
4
5
6
7
8
9
10 2
2
27
Incident Energy (MeV)
34-Se-85