Program EVALPLOT
(Version 2017-1)
by
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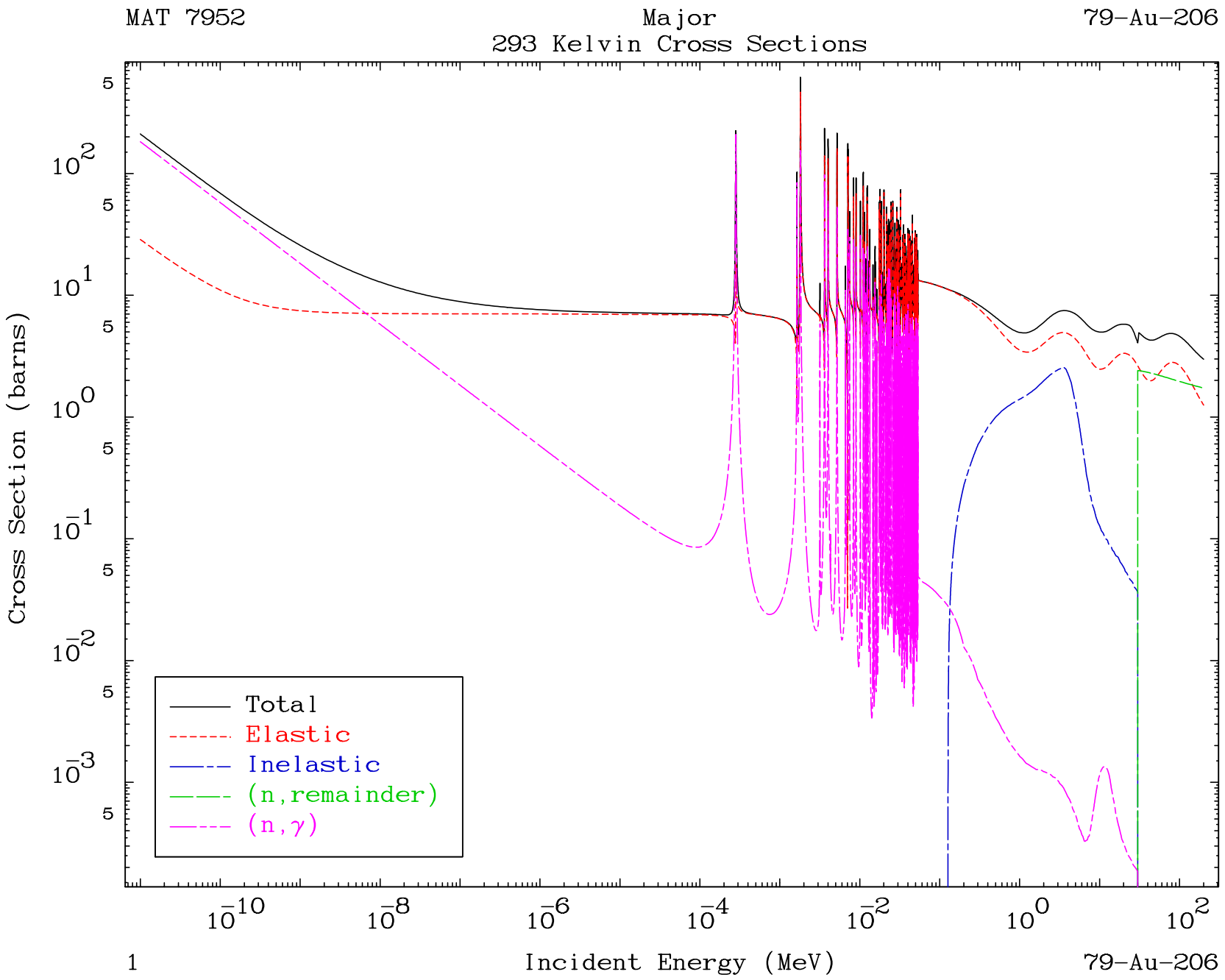
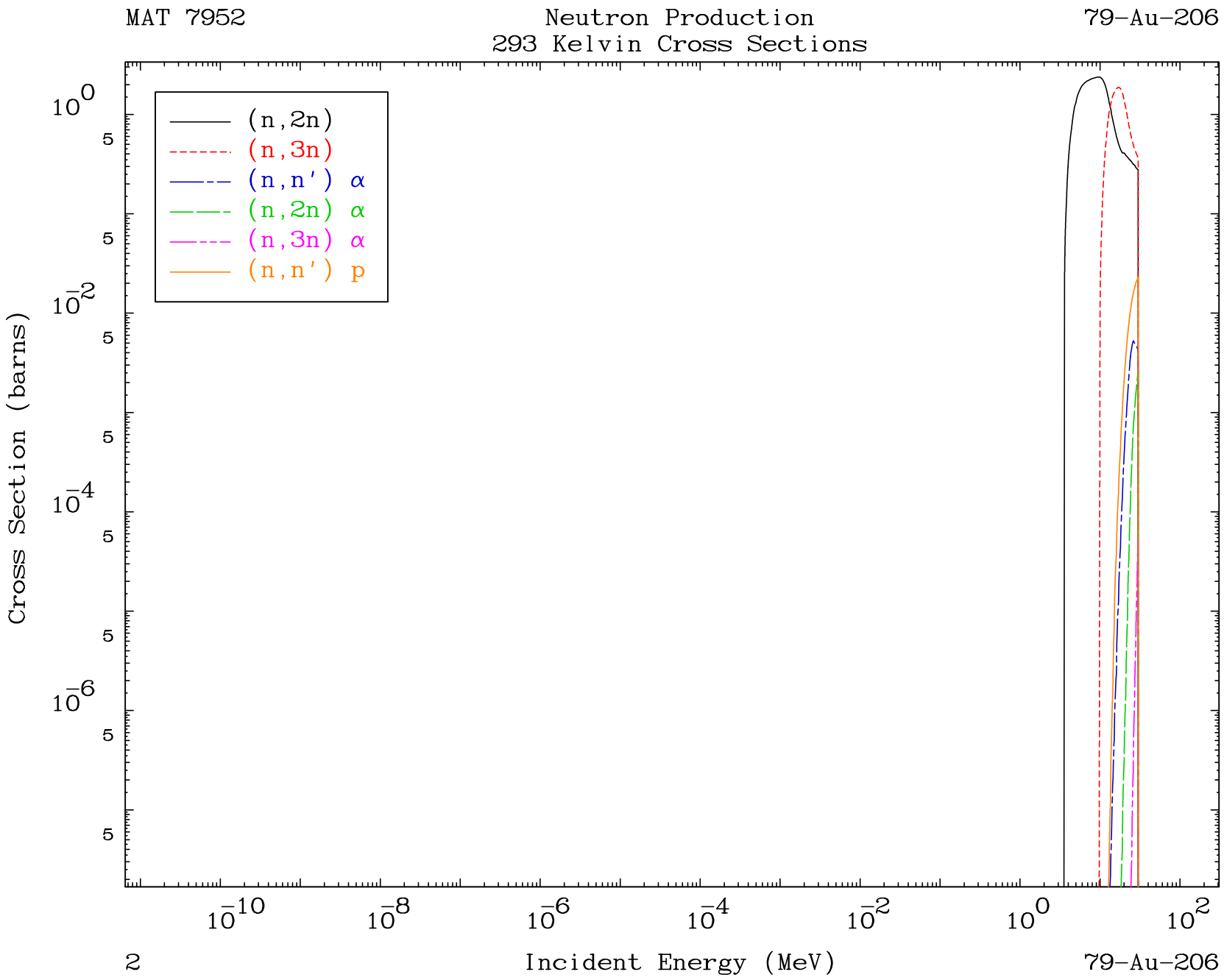
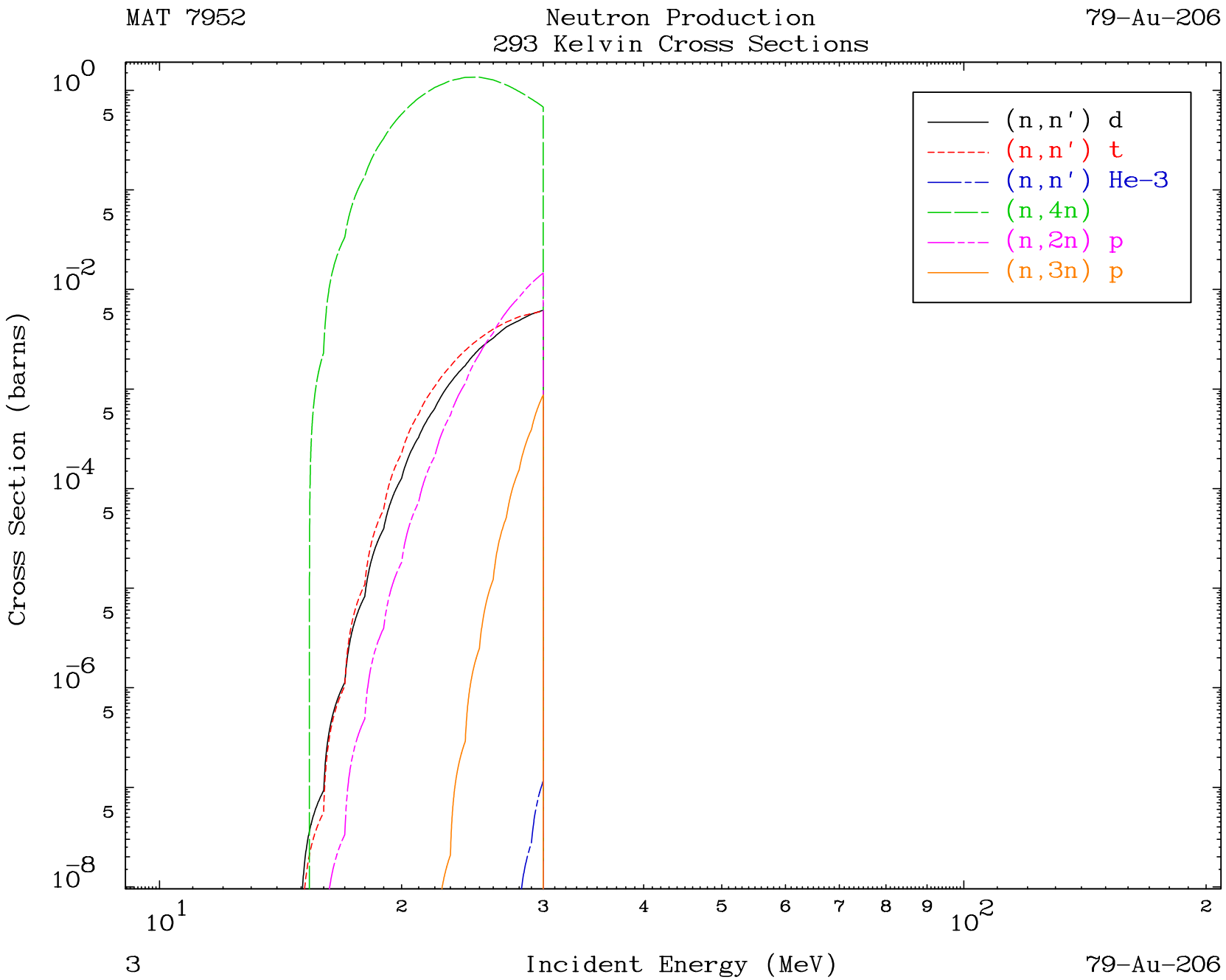
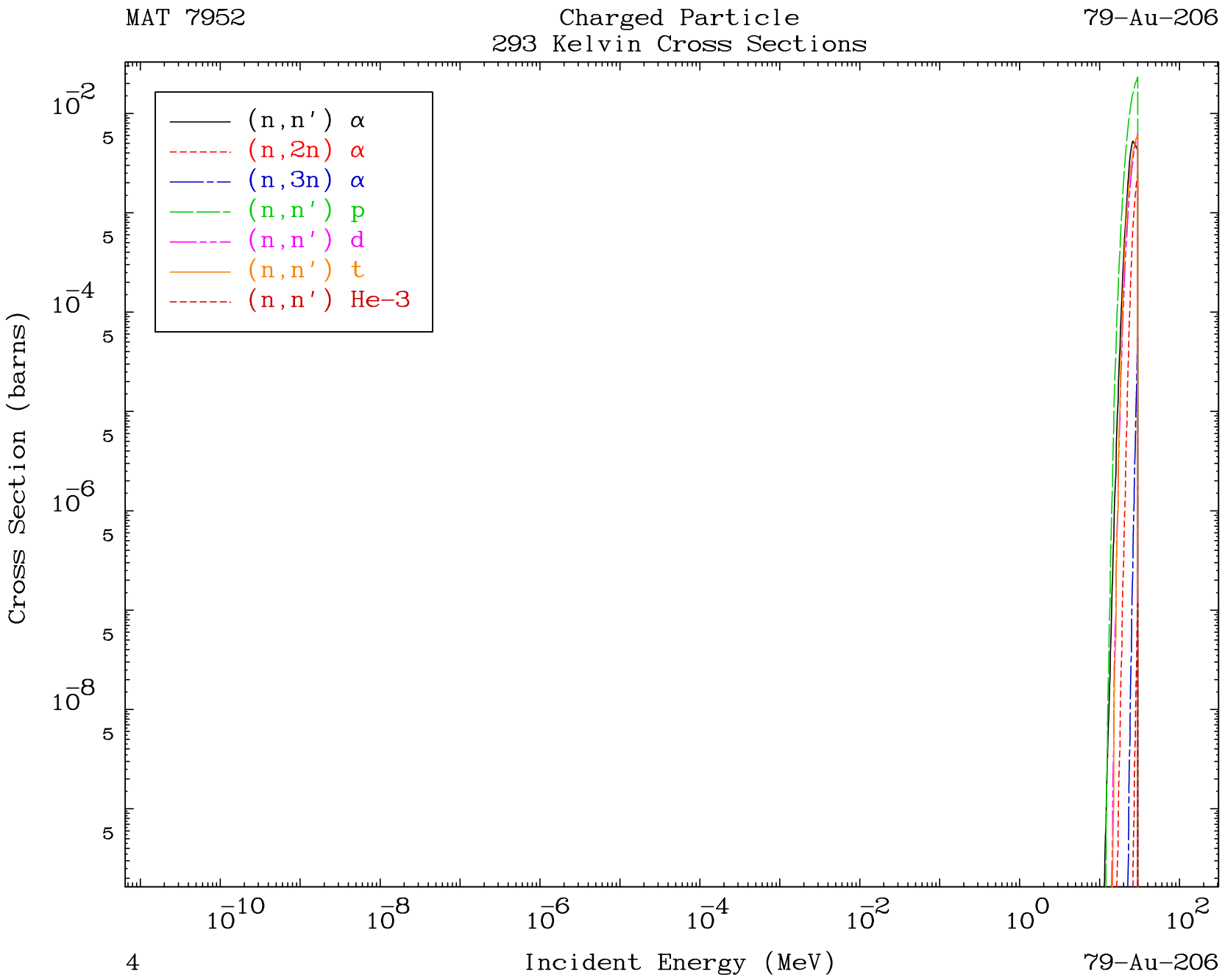
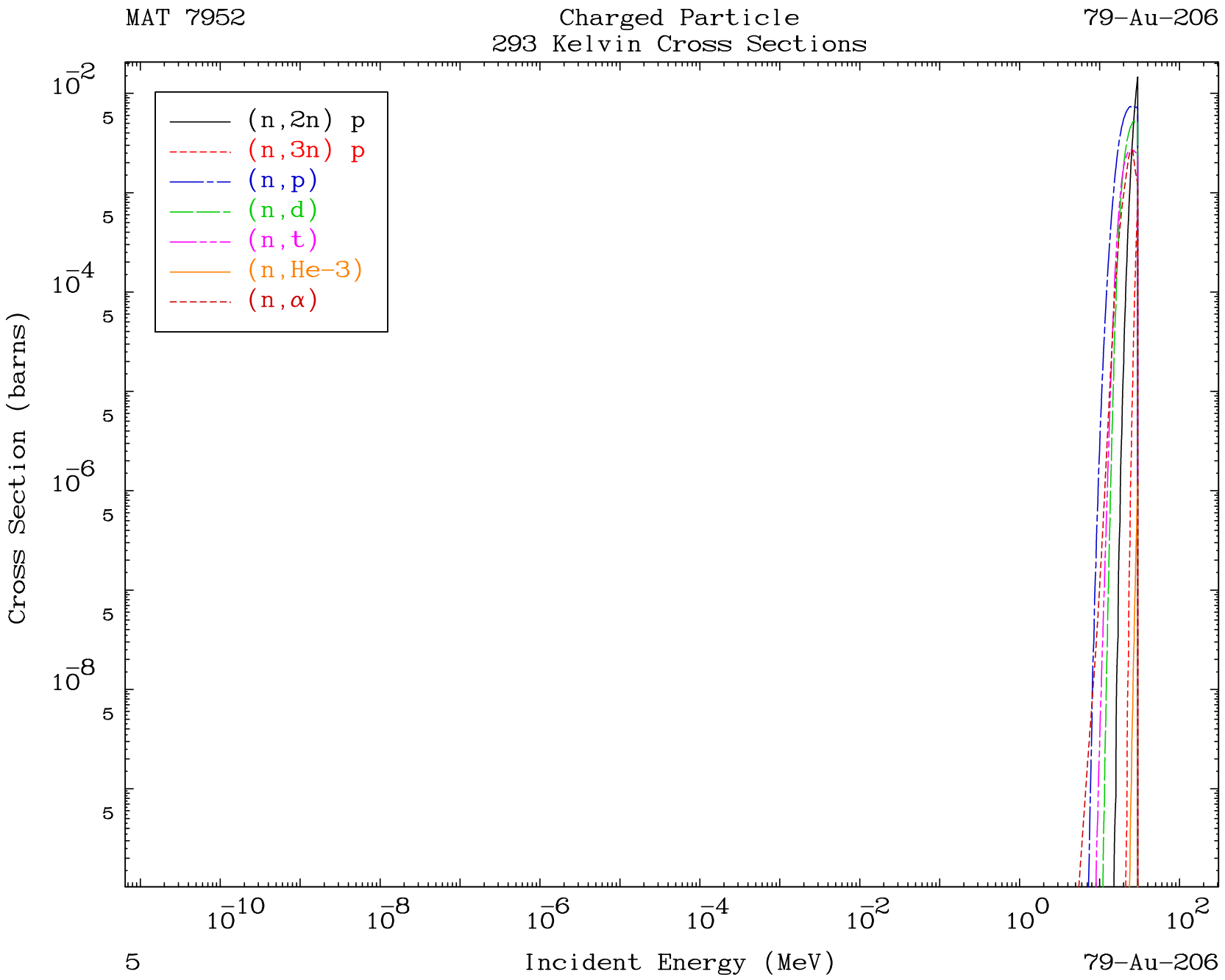
Press Mouse Button to Start

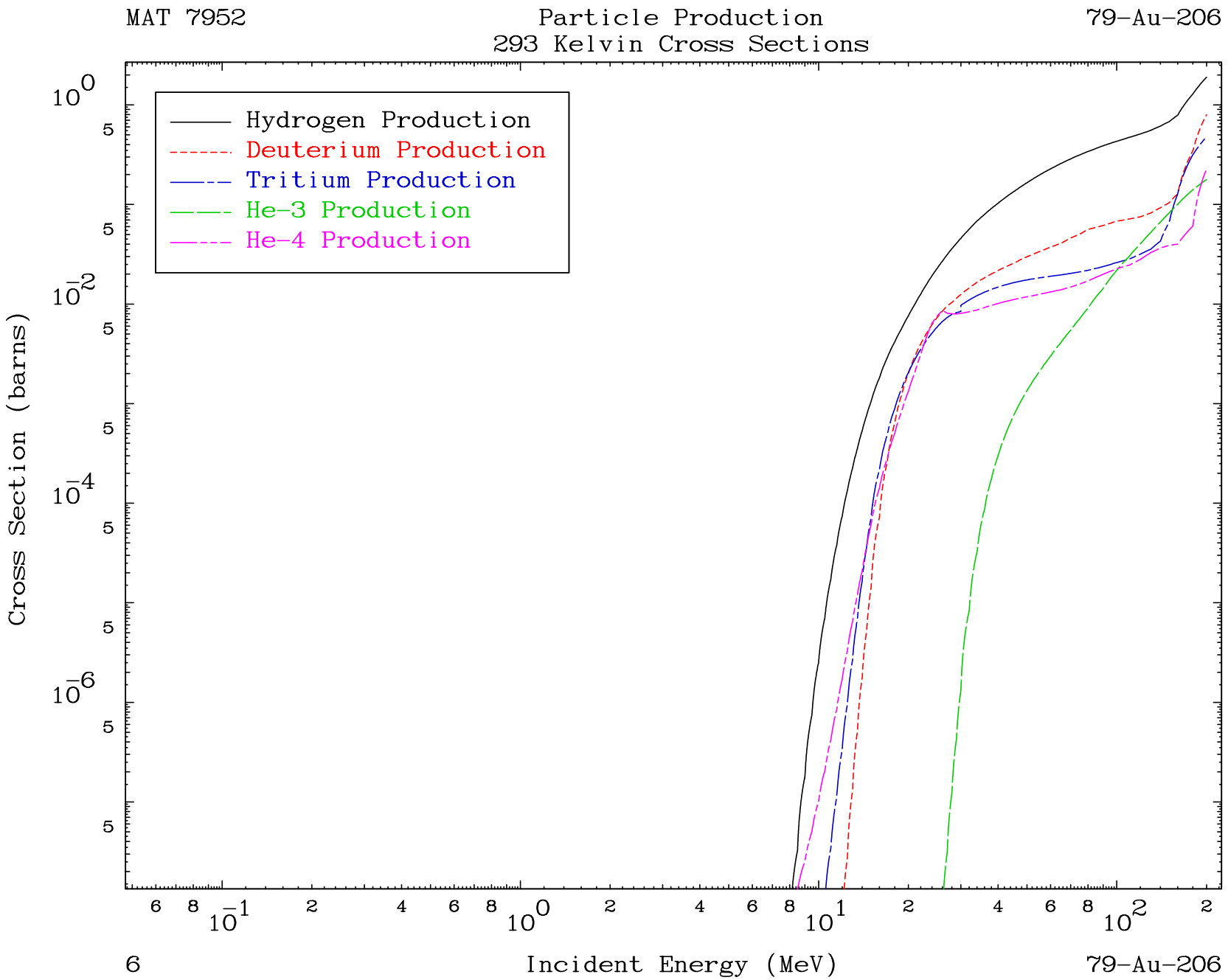

MAT 7952
Major
79-Au-206
293 Kelvin Cross Sections
Cross Section (barns)
Incident Energy (MeV)
Total
Elastic
Inelastic
(n,remainder)
(n,γ)
1
79-Au-206

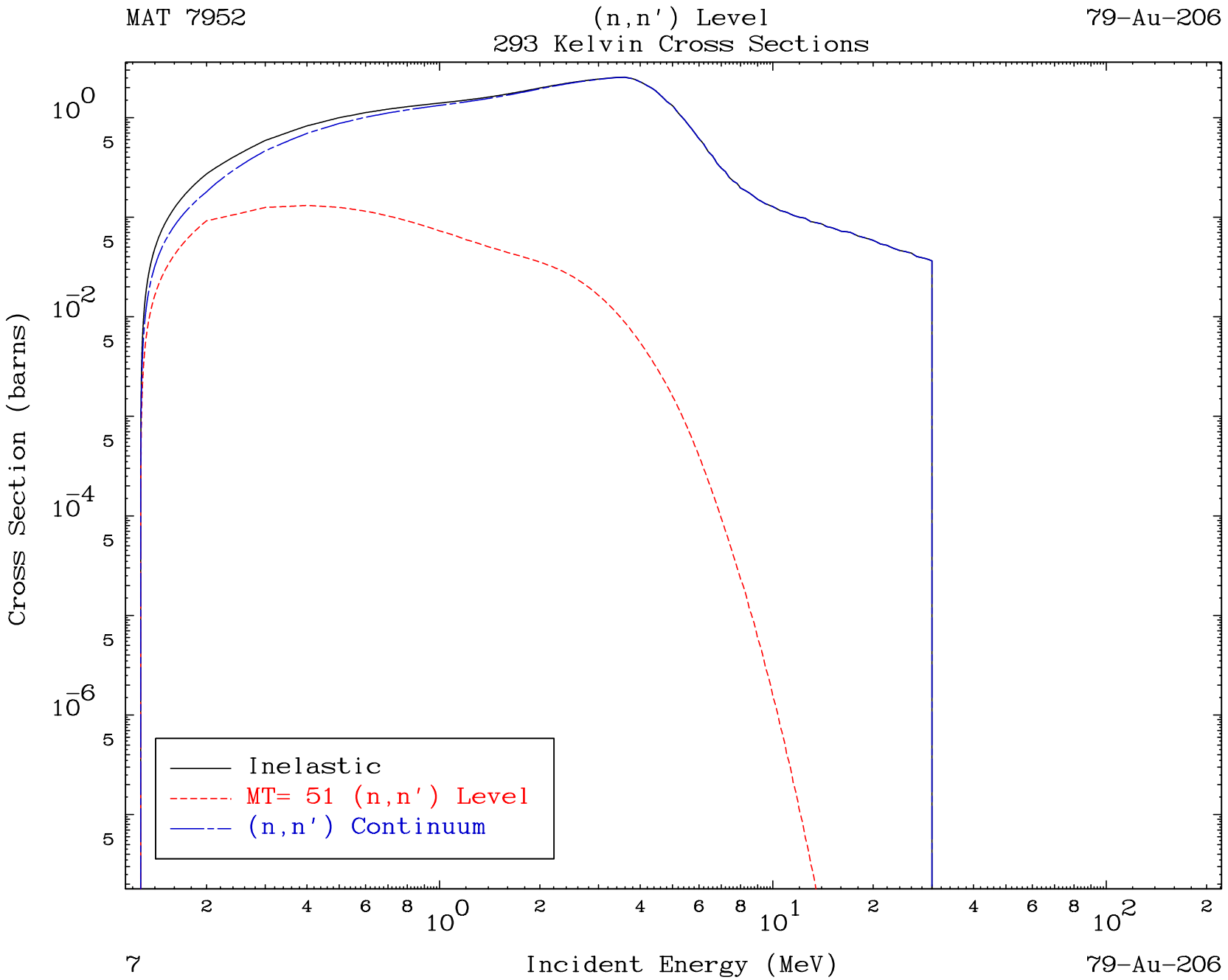

MAT 7952
Neutron Production
293 Kelvin Cross Sections
79-Au-206
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
Cross Section (barns)
Incident Energy (MeV)
2
79-Au-206

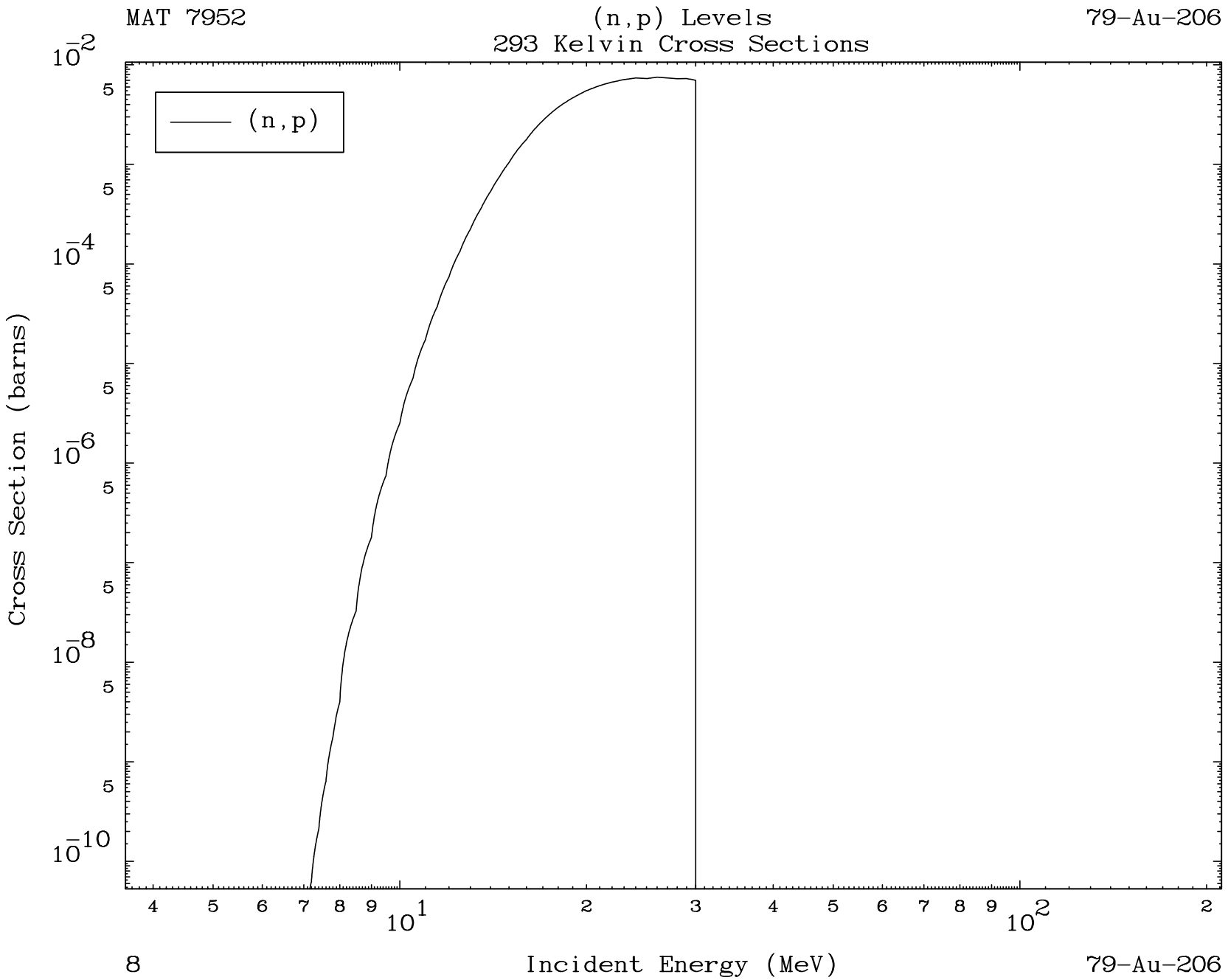

MAT 7952
Neutron Production
293 Kelvin Cross Sections
79-Au-206
(n,n') d
(n,n') t
(n,n') He-3
(n,4n)
(n,2n) p
(n,3n) p
Cross Section (barns)
Incident Energy (MeV)
3
79-Au-206

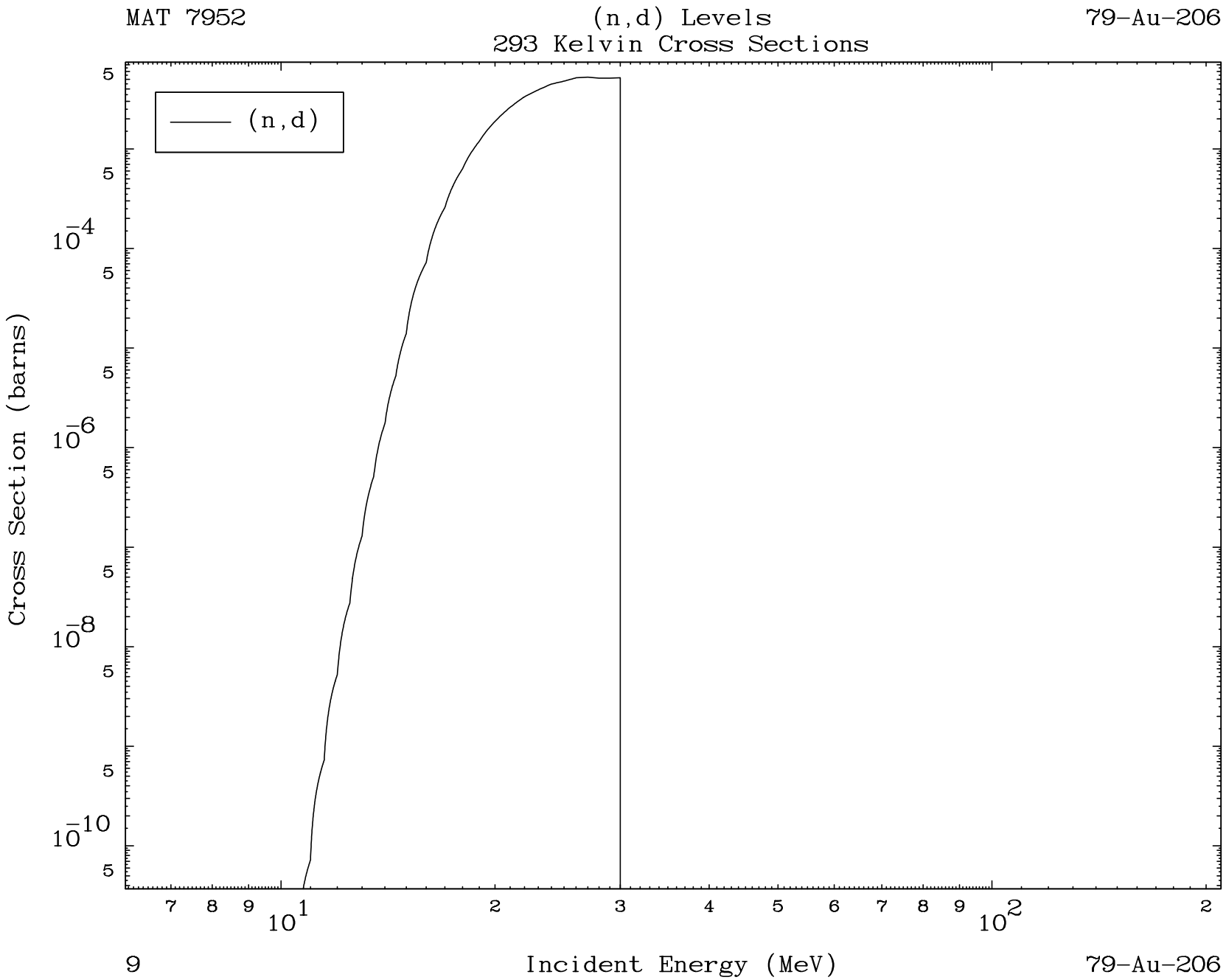

MAT 7952
Charged Particle
79-Au-206
293 Kelvin Cross Sections
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') d
(n,n') t
(n,n') He-3
Cross Section (barns)
Incident Energy (MeV)
4
79-Au-206

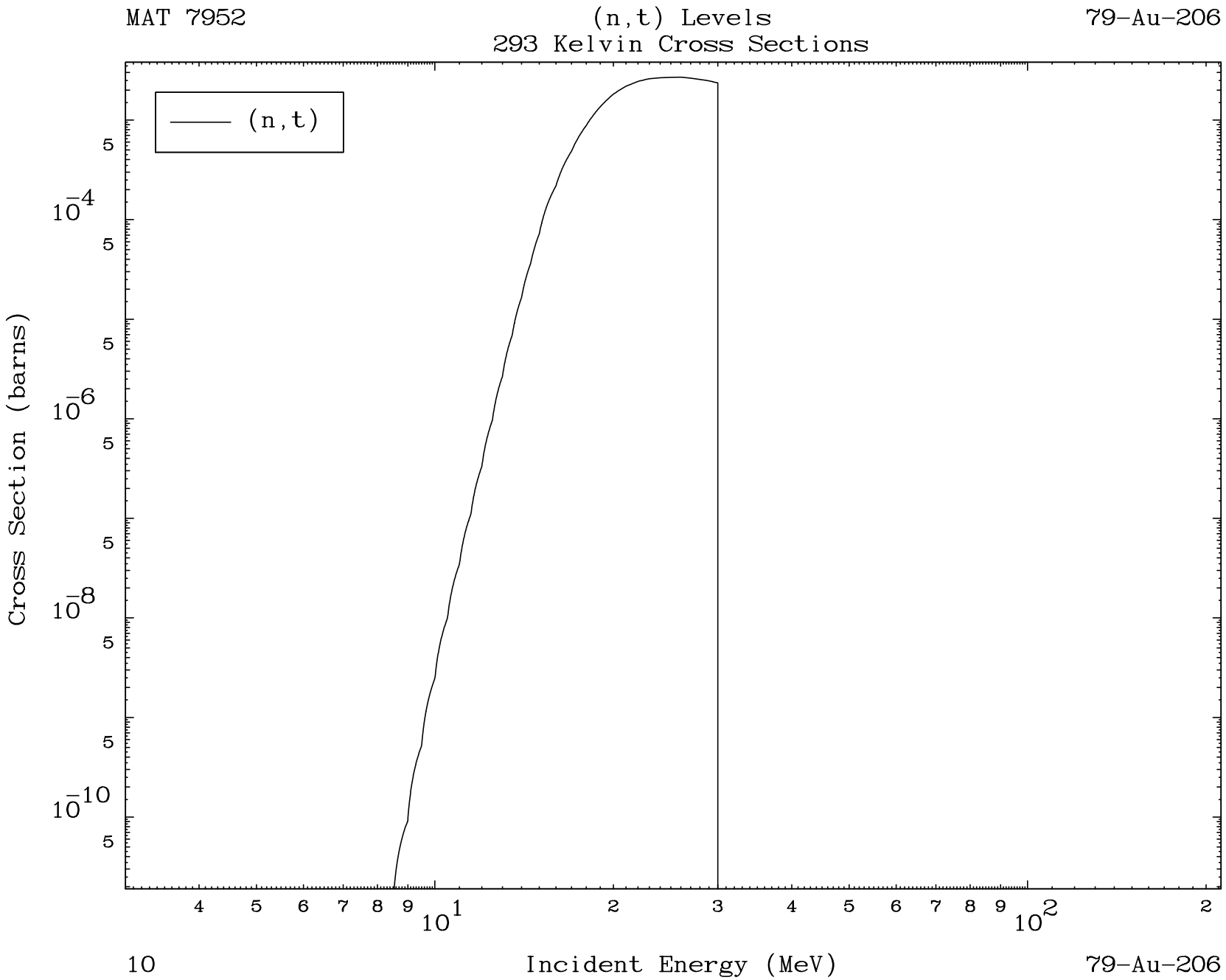

MAT 7952
Charged Particle
293 Kelvin Cross Sections
79-Au-206
(n,2n) p
(n,3n) p
(n,p)
(n,d)
(n,t)
(n,He-3)
(n,α)
Cross Section (barns)
Incident Energy (MeV)
79-Au-206

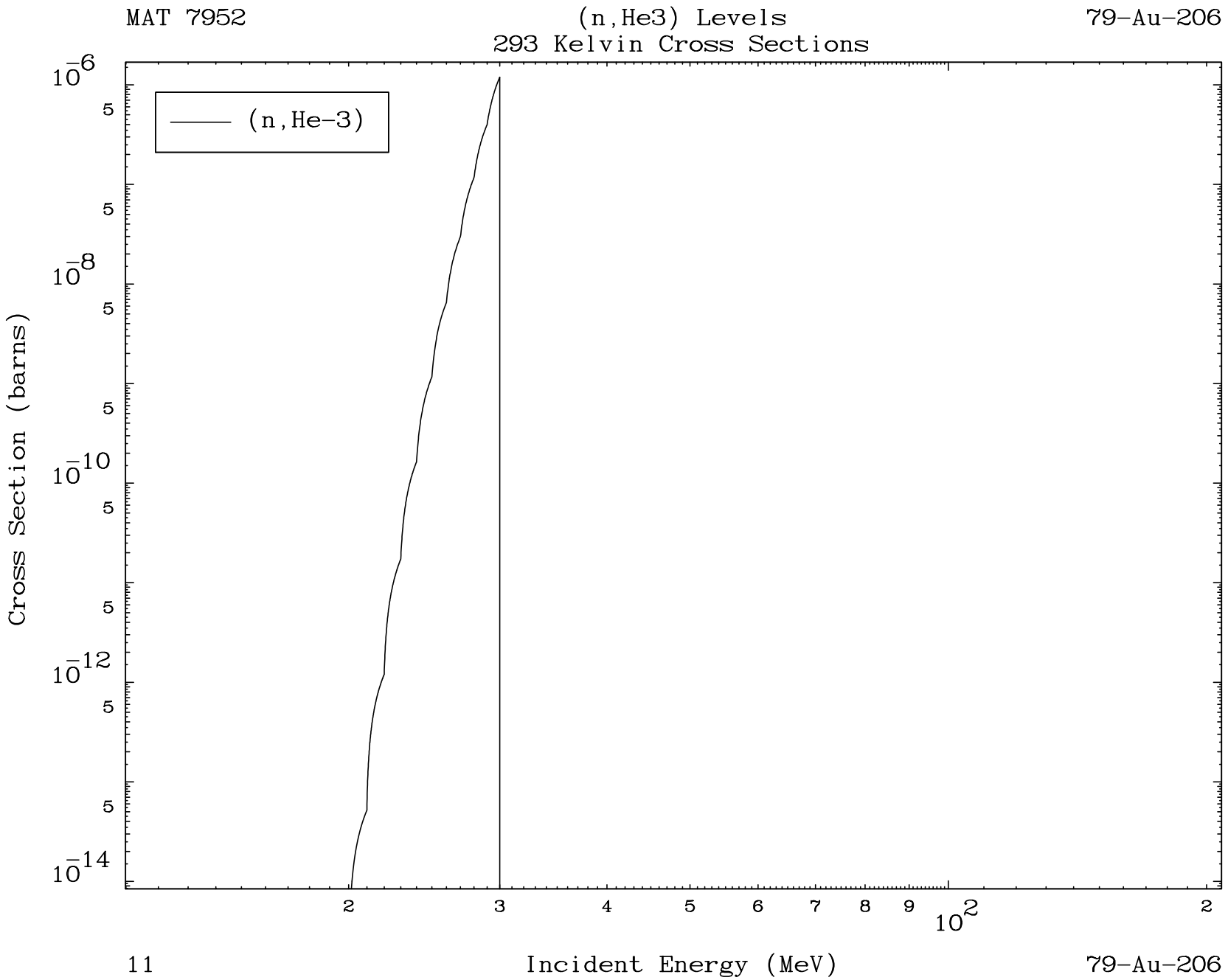

MAT 7952
Particle Production
293 Kelvin Cross Sections
79-Au-206
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production
Cross Section (barns)
Incident Energy (MeV)
79-Au-206
6

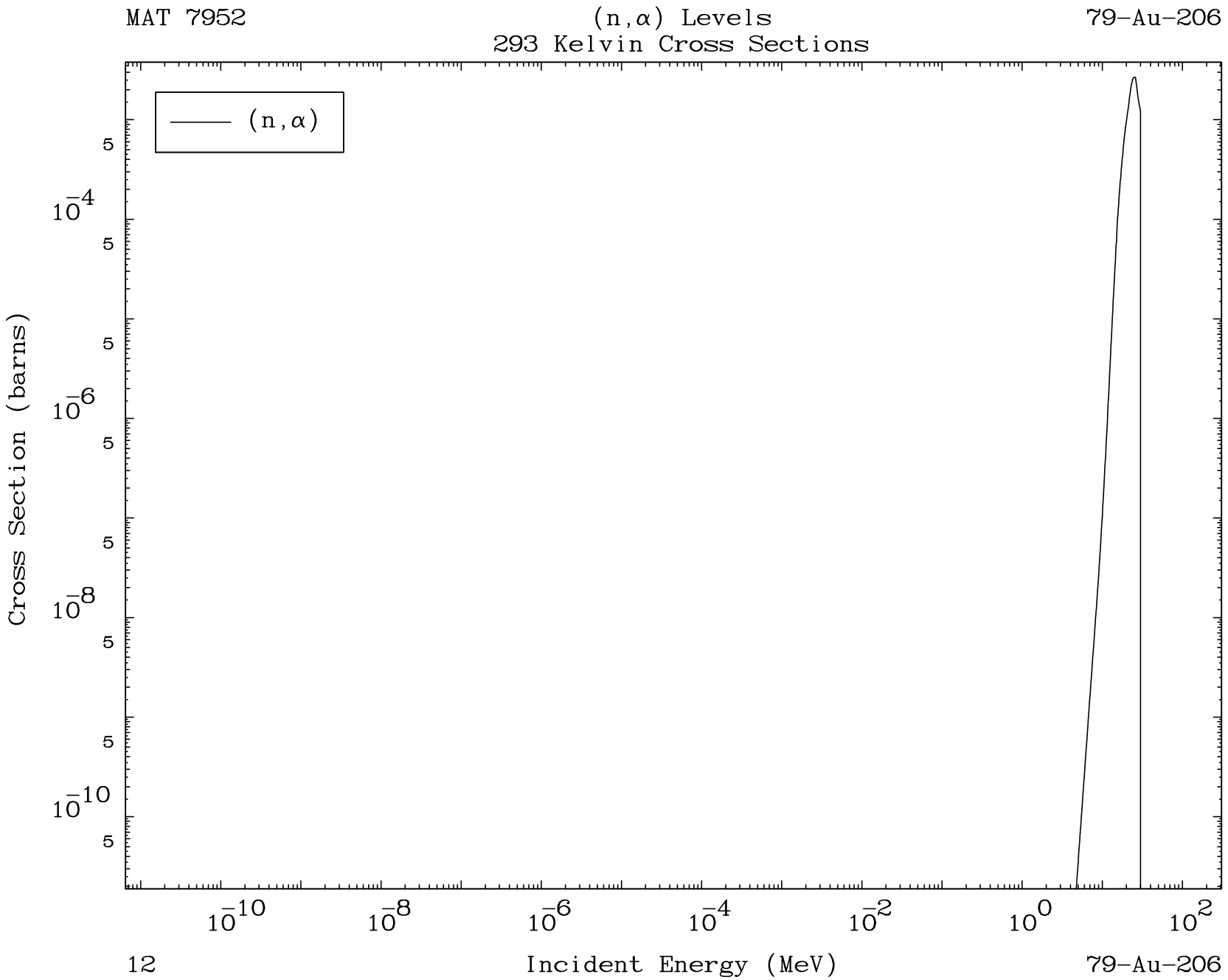

MAT 7952
(n,n') Level
79-Au-206
293 Kelvin Cross Sections
Cross Section (barns)
10^0
10^-2
10^-4
10^-6
Inelastic
MT= 51 (n,n') Level
(n,n') Continuum
10^0
10^1
10^2
Incident Energy (MeV)
7
79-Au-206

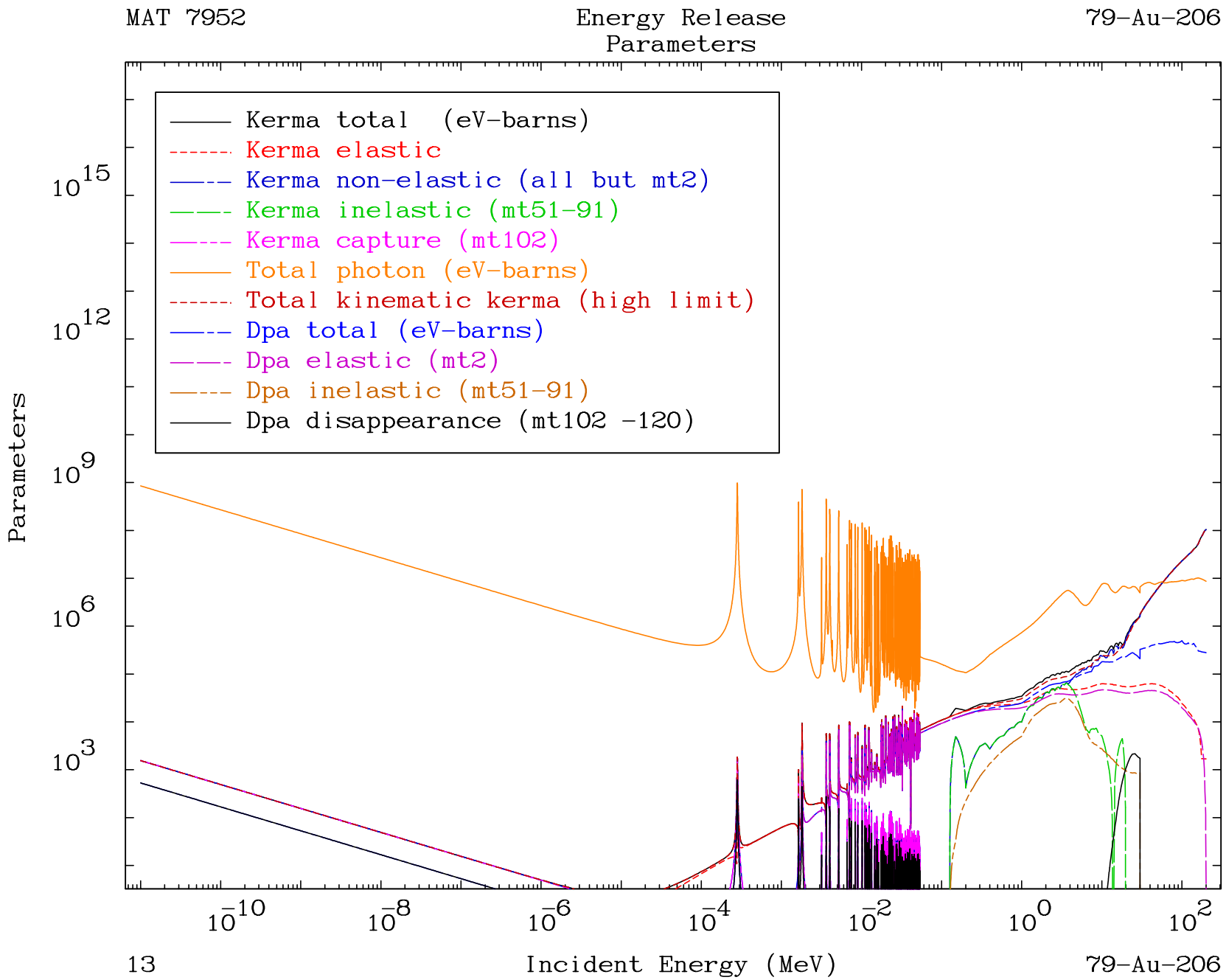

MAT 7952
(n,p) Levels
79-Au-206
293 Kelvin Cross Sections
(n,p)
Cross Section (barns)
Incident Energy (MeV)
8
79-Au-206

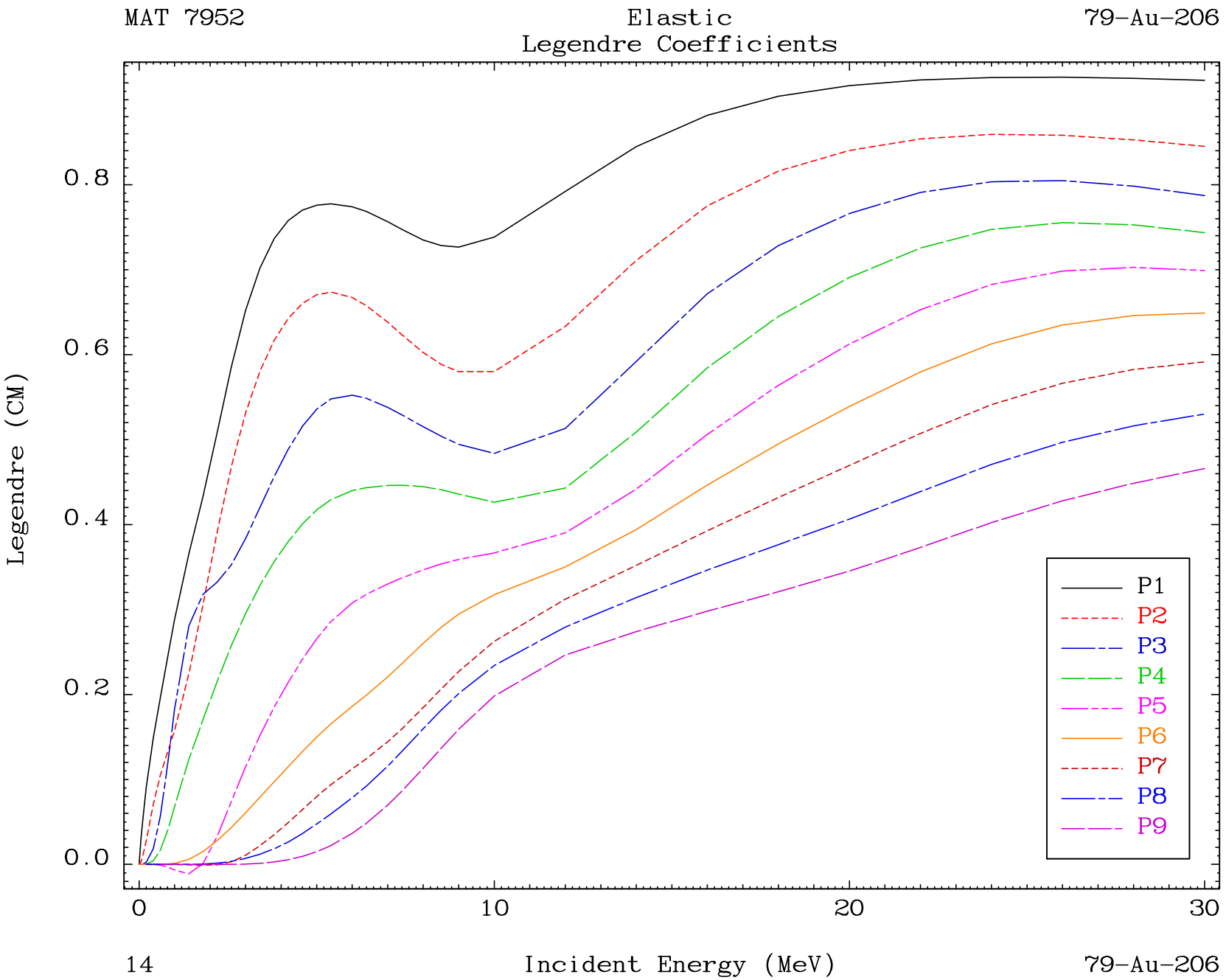

MAT 7952
(n,d) Levels
79-Au-206
293 Kelvin Cross Sections
(n,d)
Cross Section (barns)
Incident Energy (MeV)
9
79-Au-206

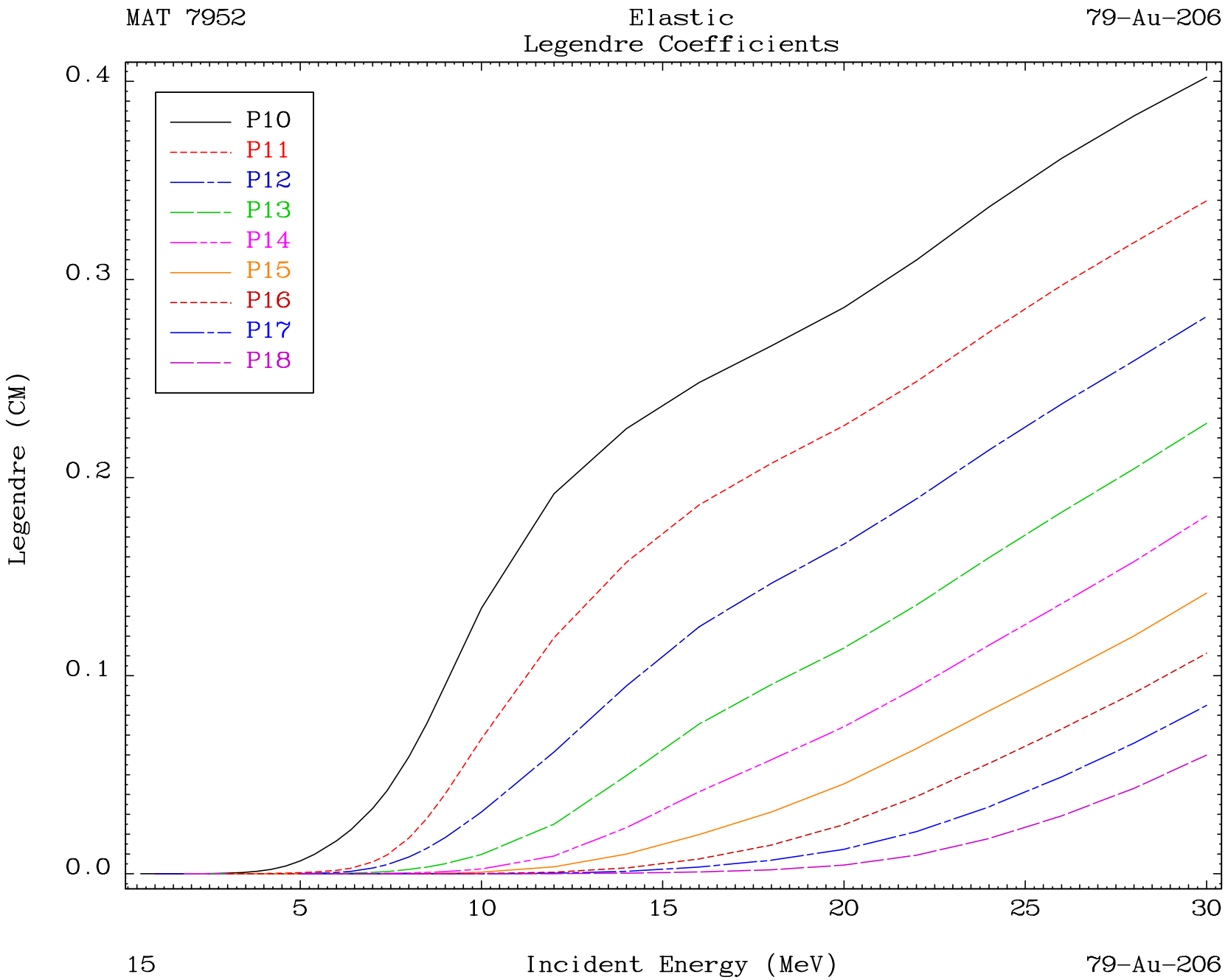

MAT 7952
(n,t) Levels
79-Au-206
293 Kelvin Cross Sections
(n,t)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
Incident Energy (MeV)
10
79-Au-206

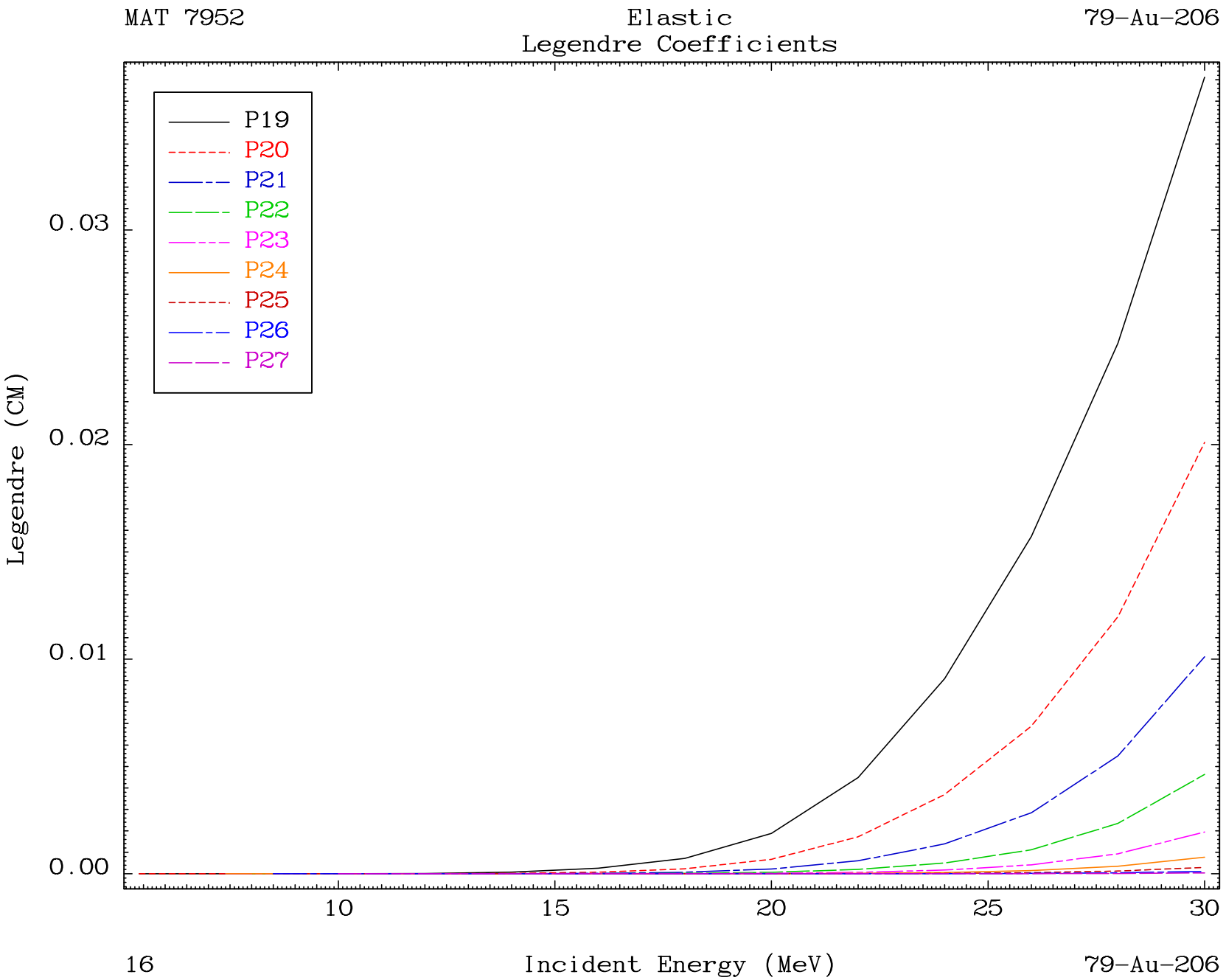

MAT 7952
(n,He3) Levels
79-Au-206
293 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
10-6
5
10-8
5
10-10
5
10-12
5
10-14
5
2
3
4
5
6
7
8
9
10 2
2
11
Incident Energy (MeV)
79-Au-206

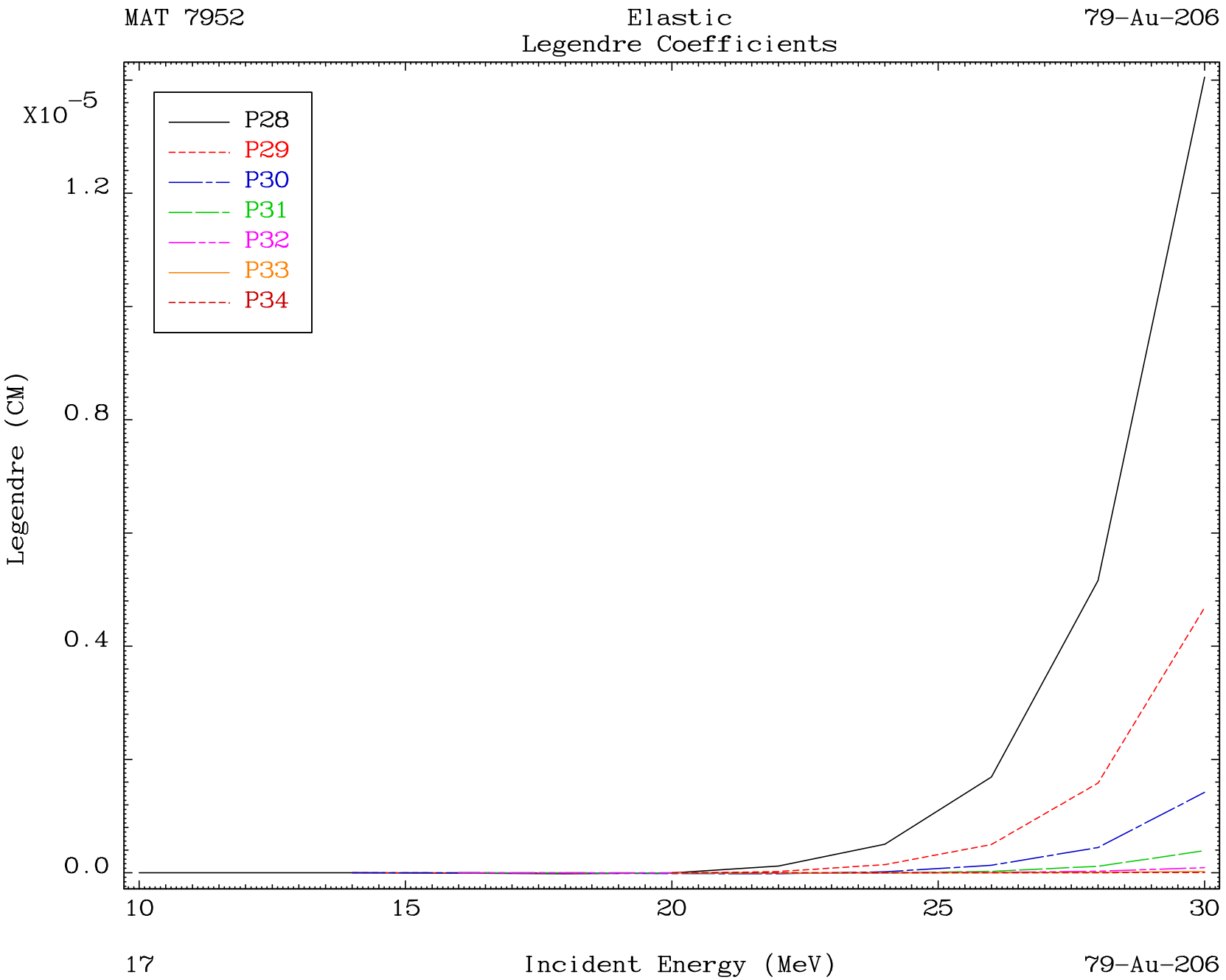

MAT 7952
(n,α) Levels
79-Au-206
293 Kelvin Cross Sections
(n,α)
Cross Section (barns)
Incident Energy (MeV)
12
79-Au-206

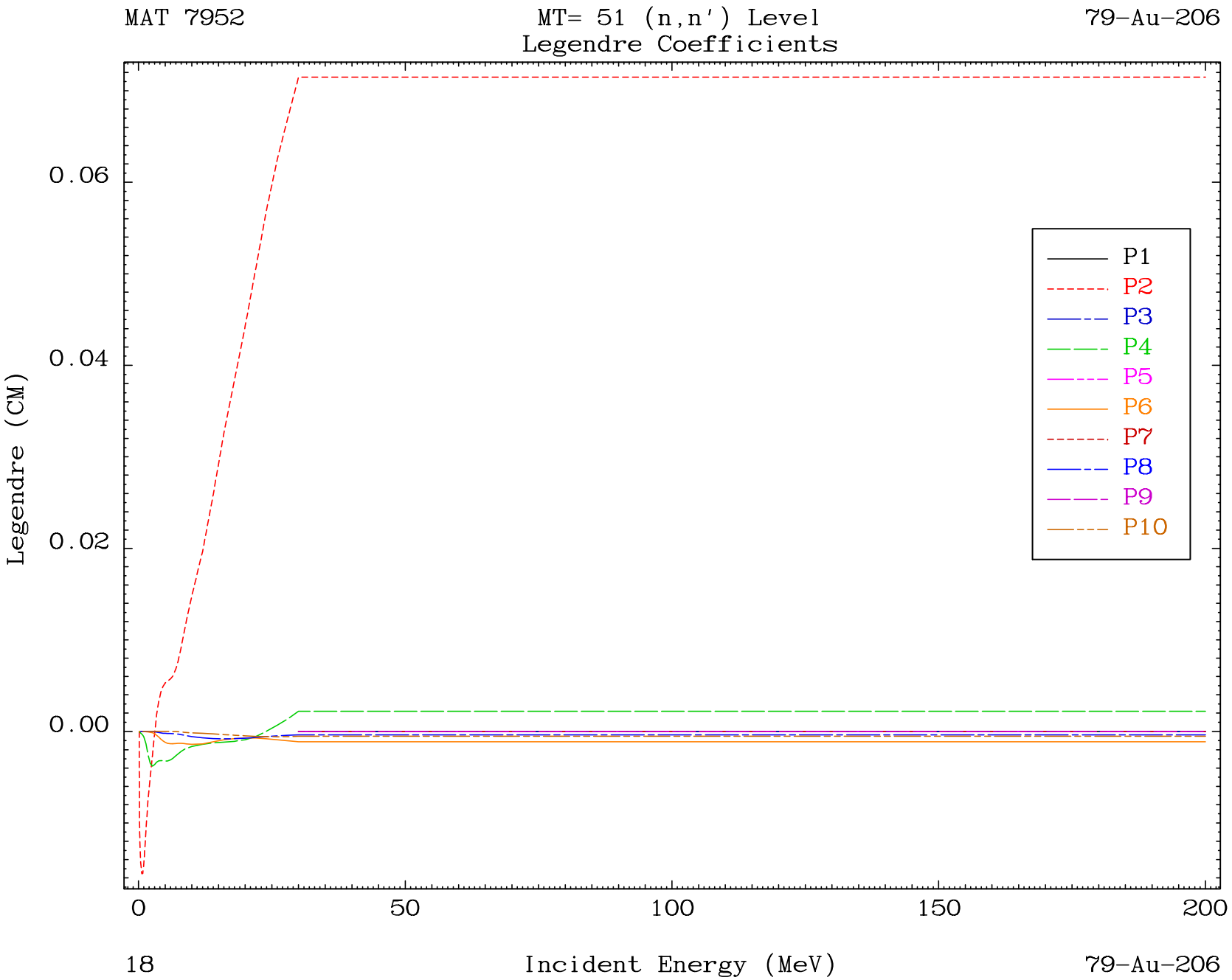

MAT 7952
Energy Release
Parameters
79-Au-206
Kerma total (eV-barns)
Kerma elastic
Kerma non-elastic (all but mt2)
Kerma inelastic (mt51-91)
Kerma capture (mt102)
Total photon (eV-barns)
Total kinematic kerma (high limit)
Dpa total (eV-barns)
Dpa elastic (mt2)
Dpa inelastic (mt51-91)
Dpa disappearance (mt102 -120)
Parameters
10^15
10^12
10^9
10^6
10^3
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
13
Incident Energy (MeV)
79-Au-206

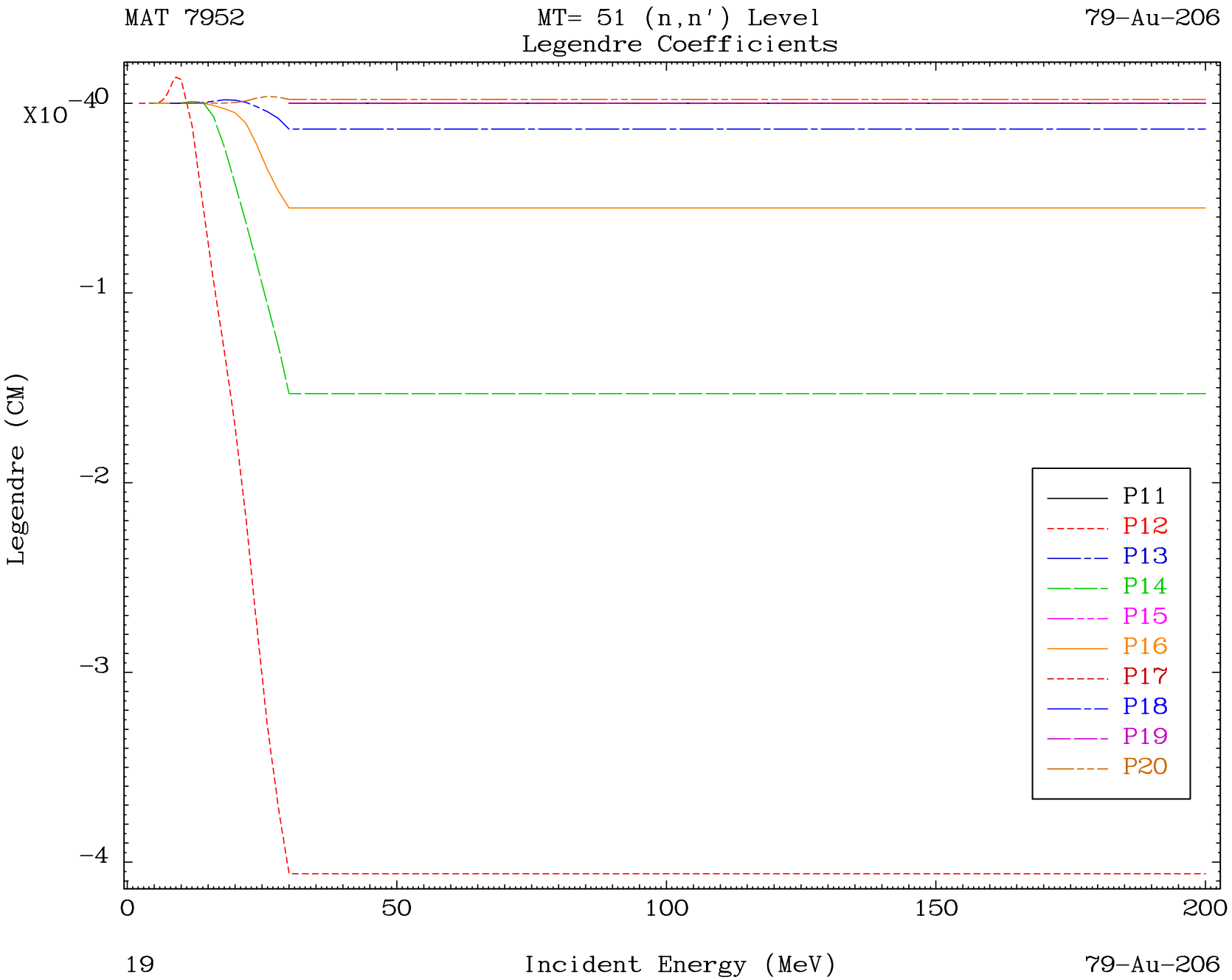

MAT 7952
Elastic
Legendre Coefficients
79-Au-206
Legendre (CM)
0.0
0.2
0.4
0.6
0.8
0
10
20
30
14
Incident Energy (MeV)
79-Au-206
P1
P2
P3
P4
P5
P6
P7
P8
P9

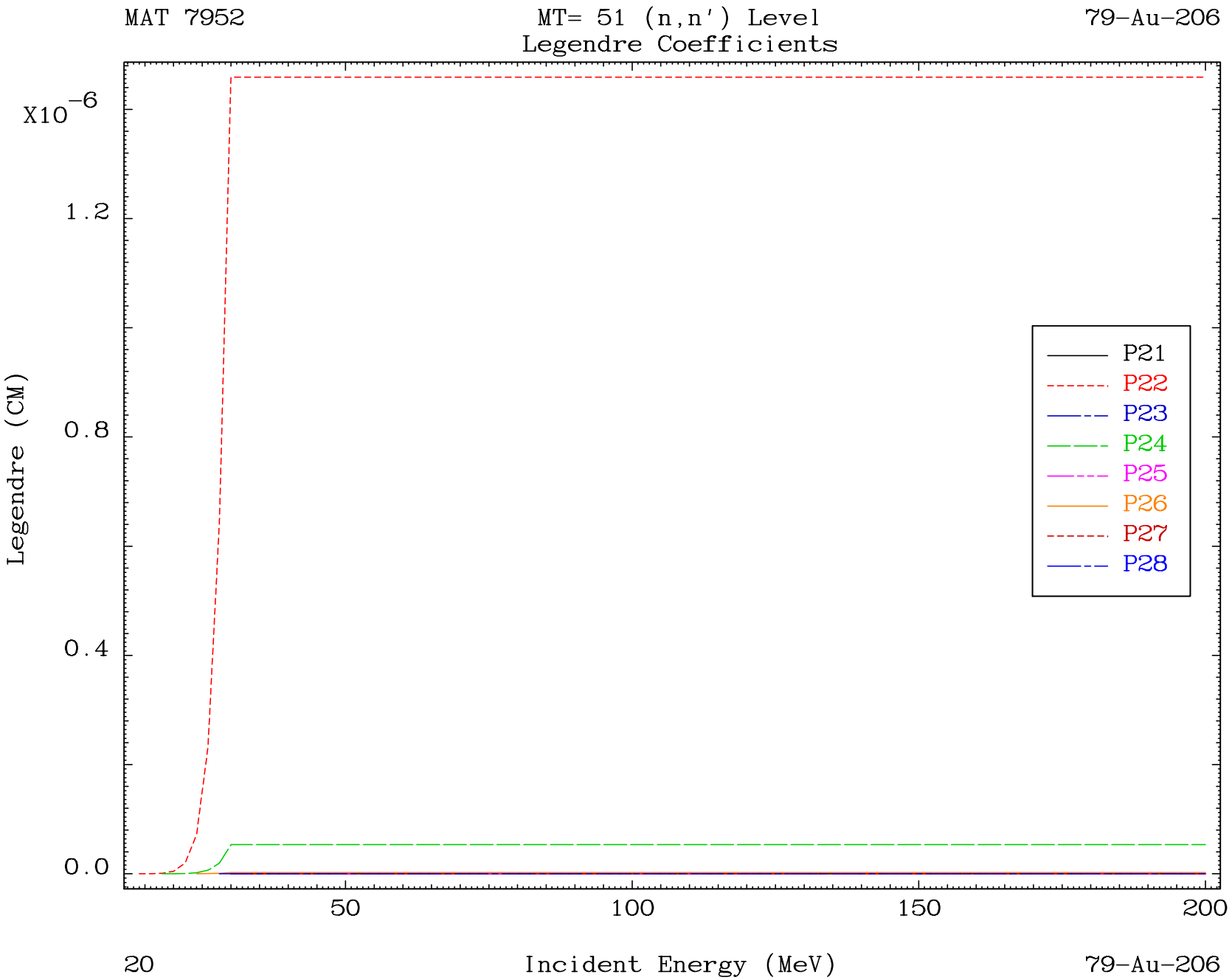

MAT 7952
Elastic
Legendre Coefficients
79-Au-206
P10
P11
P12
P13
P14
P15
P16
P17
P18
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
5
10
15
20
25
30
15
Incident Energy (MeV)
79-Au-206

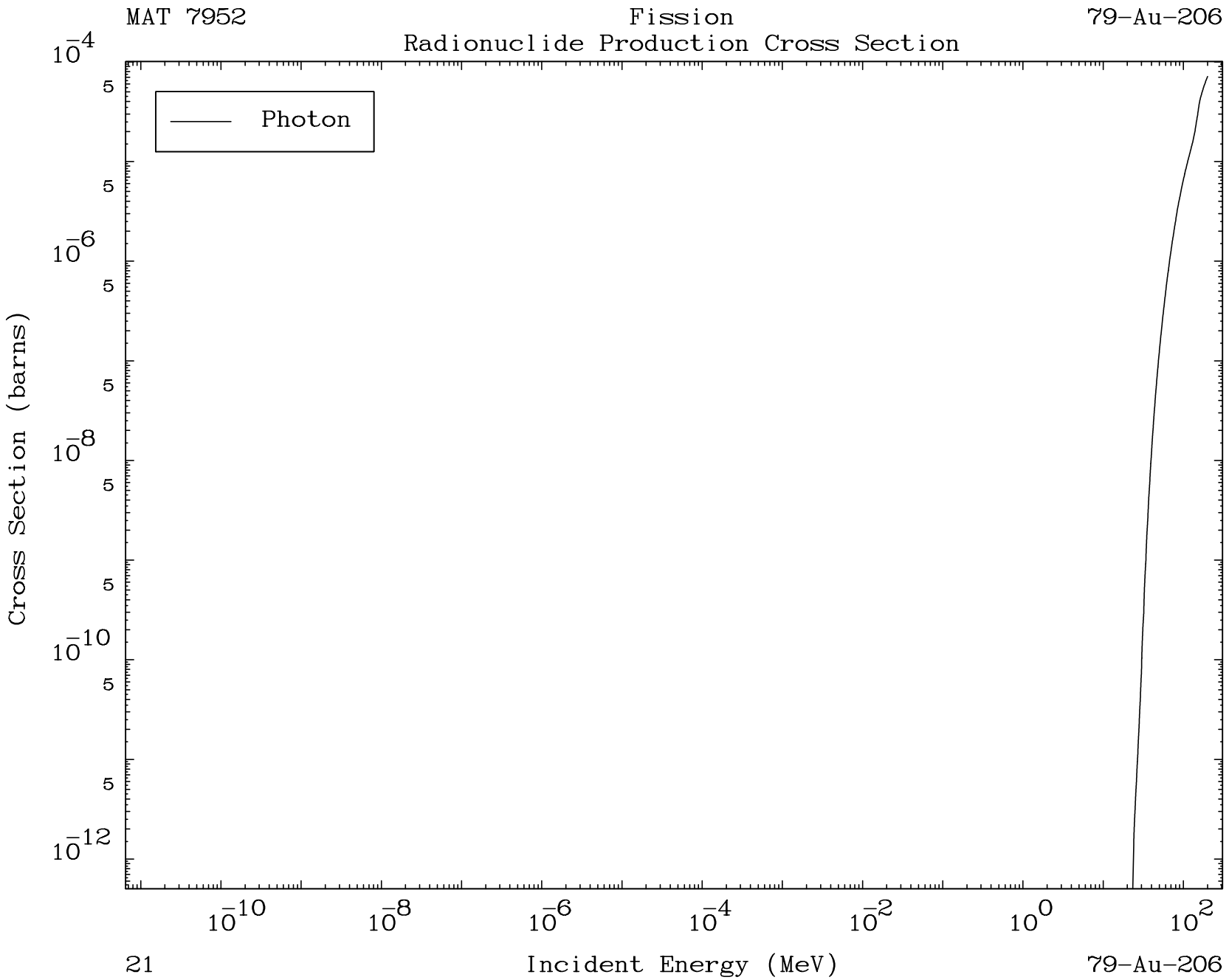

MAT 7952
Elastic
Legendre Coefficients
79-Au-206
P19
P20
P21
P22
P23
P24
P25
P26
P27
0.03
0.02
0.01
0.00
Legendre (CM)
10
15
20
25
30
16
Incident Energy (MeV)
79-Au-206


MAT 7952
Elastic
Legendre Coefficients
79-Au-206
X10 -5
1.2
0.8
0.4
0.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
10
15
20
25
30
17
Incident Energy (MeV)
79-Au-206


MAT 7952
MT= 51 (n,n') Level
Legendre Coefficients
79-Au-206
0.06
0.04
0.02
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
0
50
100
150
200
18
Incident Energy (MeV)
79-Au-206


MAT 7952
MT= 51 (n,n') Level
Legendre Coefficients
79-Au-206
X10^-4
0
-1
-2
-3
-4
Legendre (CM)
0
50
100
150
200
19
Incident Energy (MeV)
79-Au-206
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20


MAT 7952
MT= 51 (n,n') Level
Legendre Coefficients
79-Au-206
X10^-6
1.2
0.8
0.4
0.0
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
20
50
100
150
200
Incident Energy (MeV)
79-Au-206


MAT 7952
Fission
79-Au-206
Radionuclide Production Cross Section
Photon
Cross Section (barns)
Incident Energy (MeV)
21
79-Au-206