Program EVALPLOT
(Version 2018-1)
by
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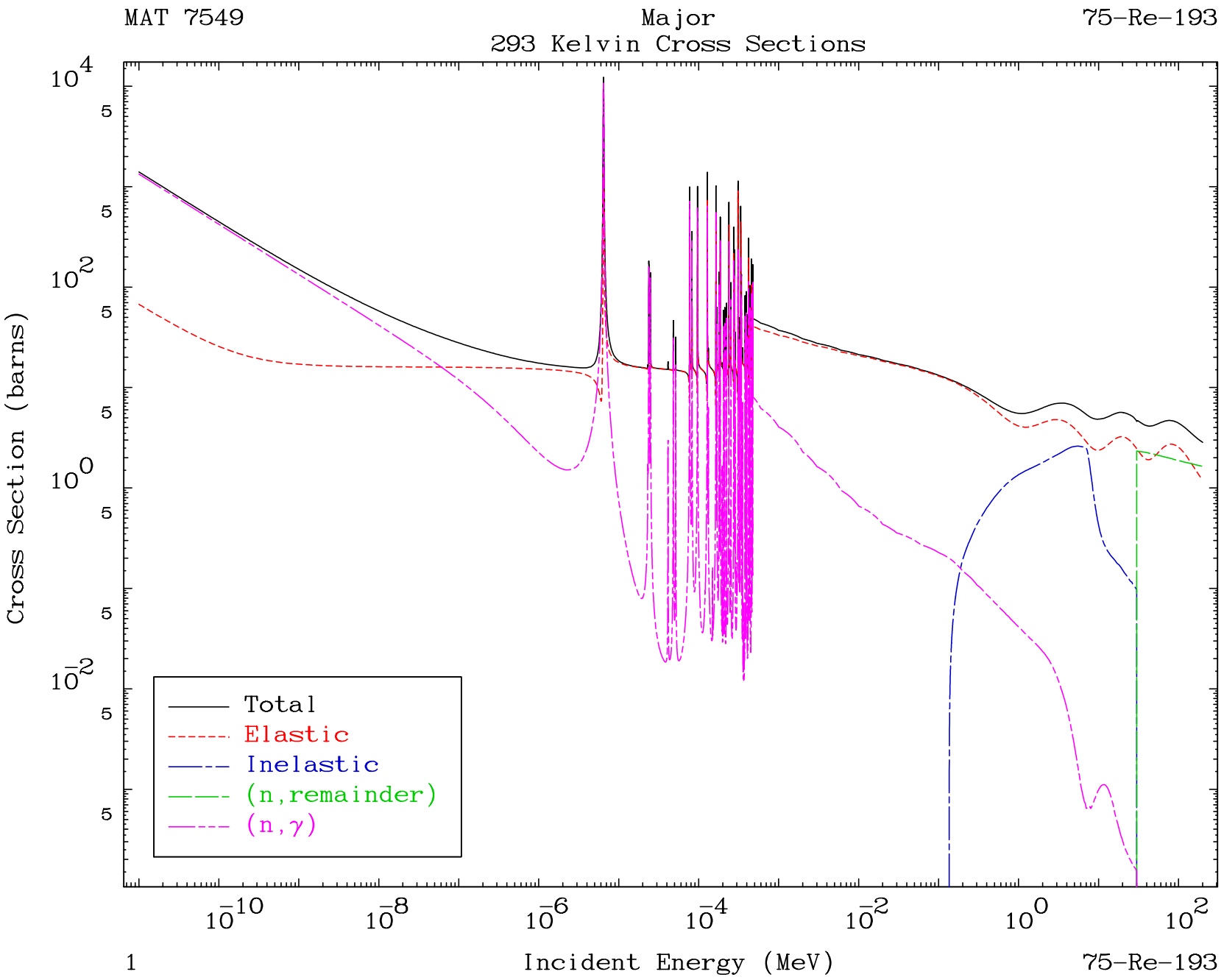
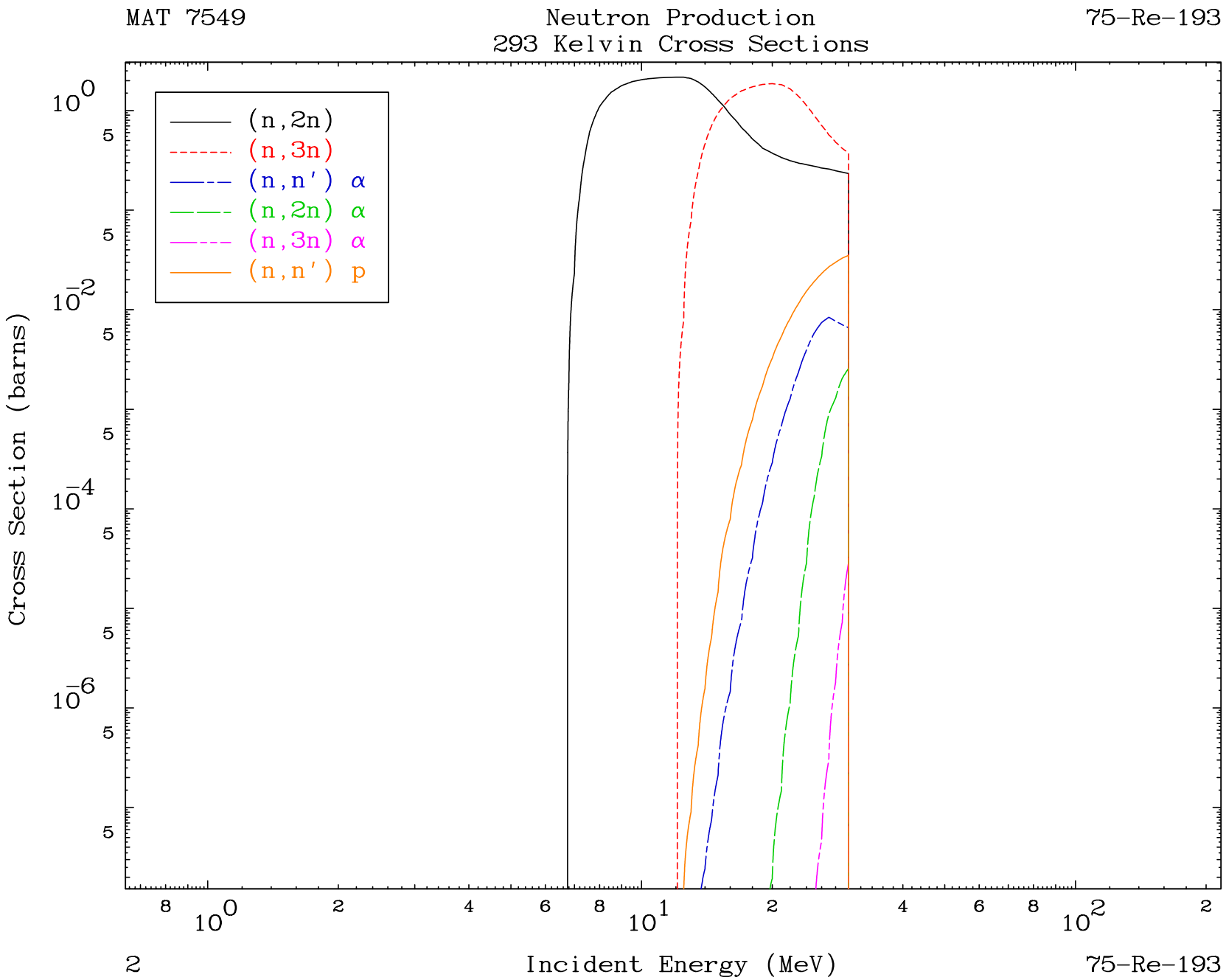
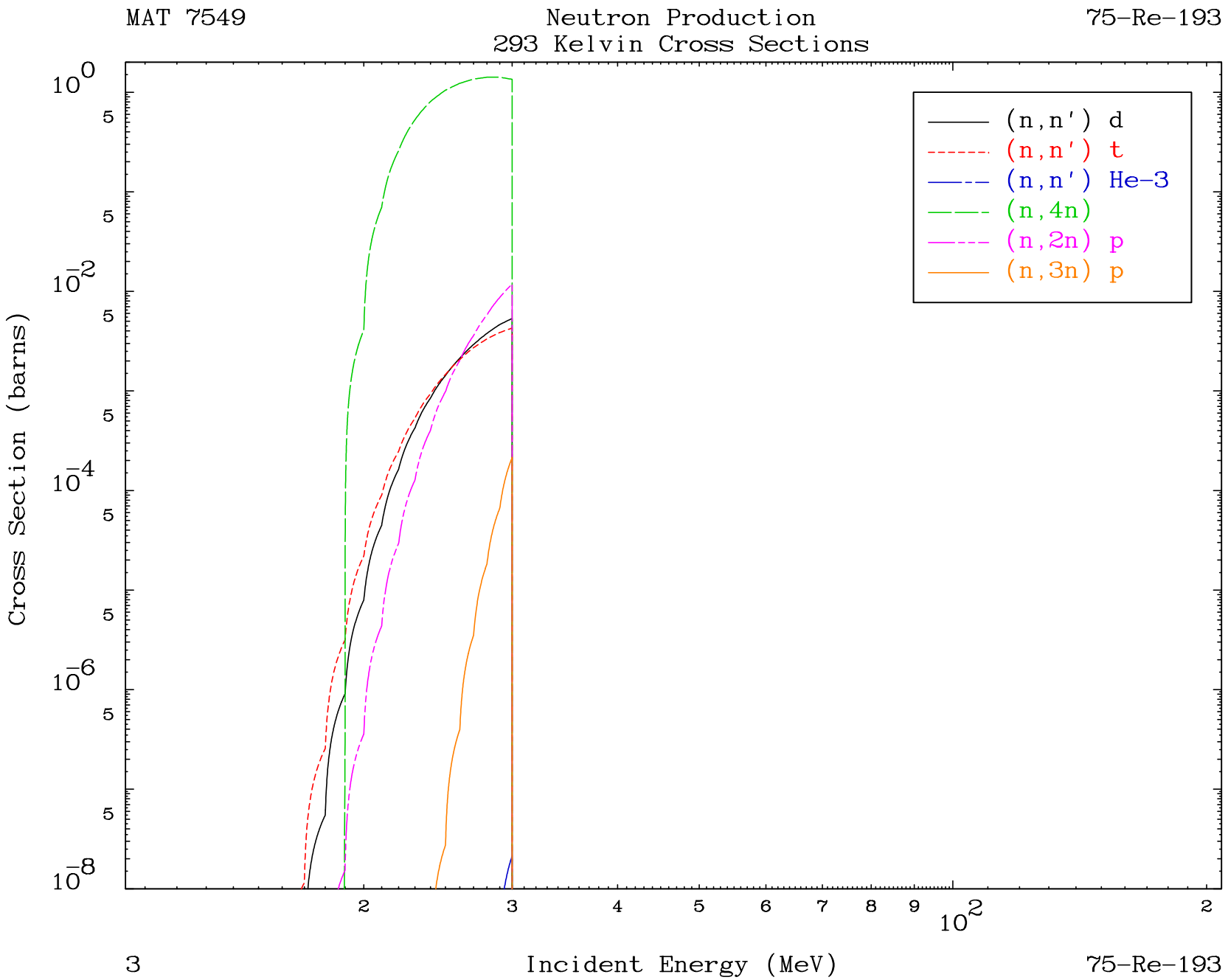
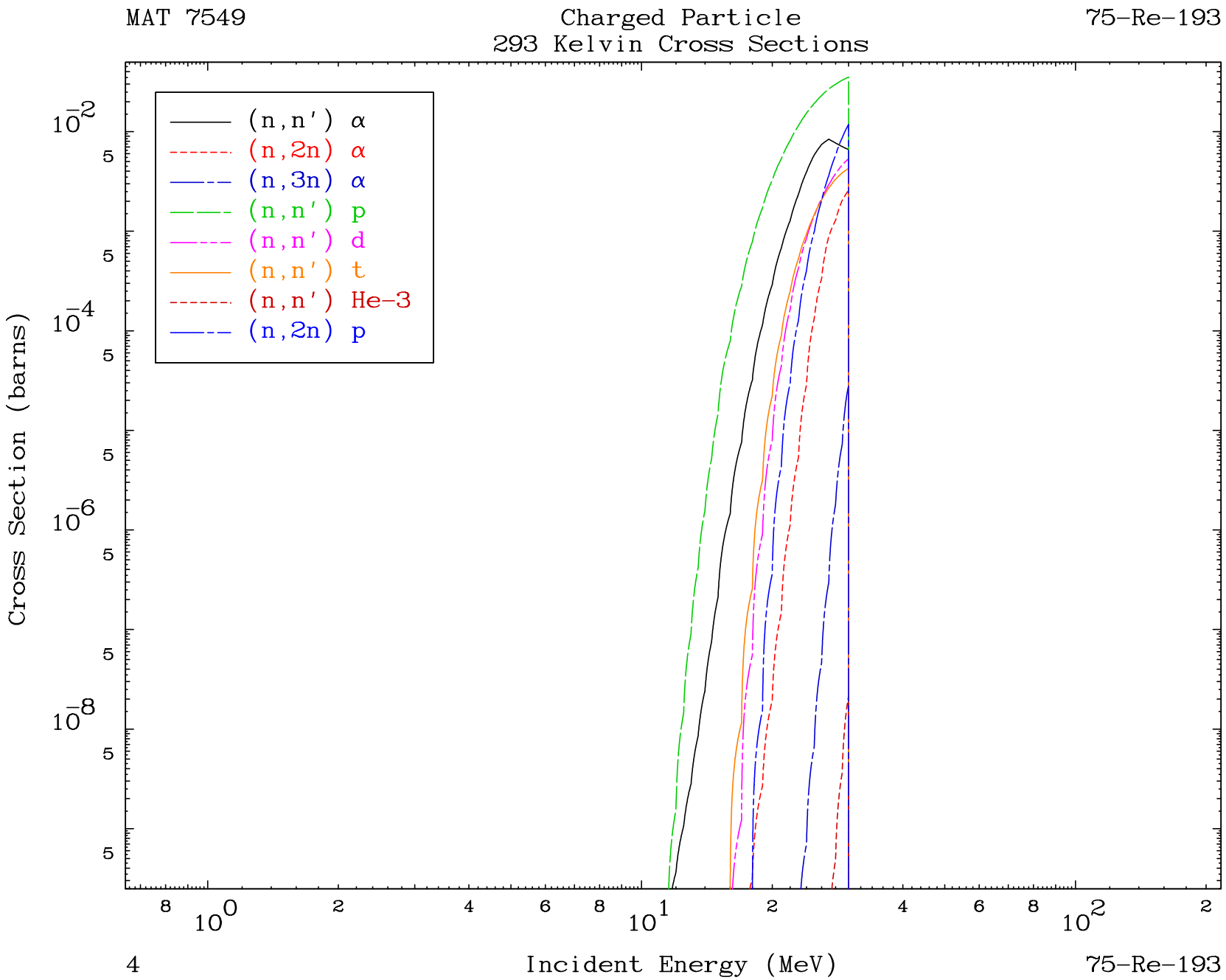
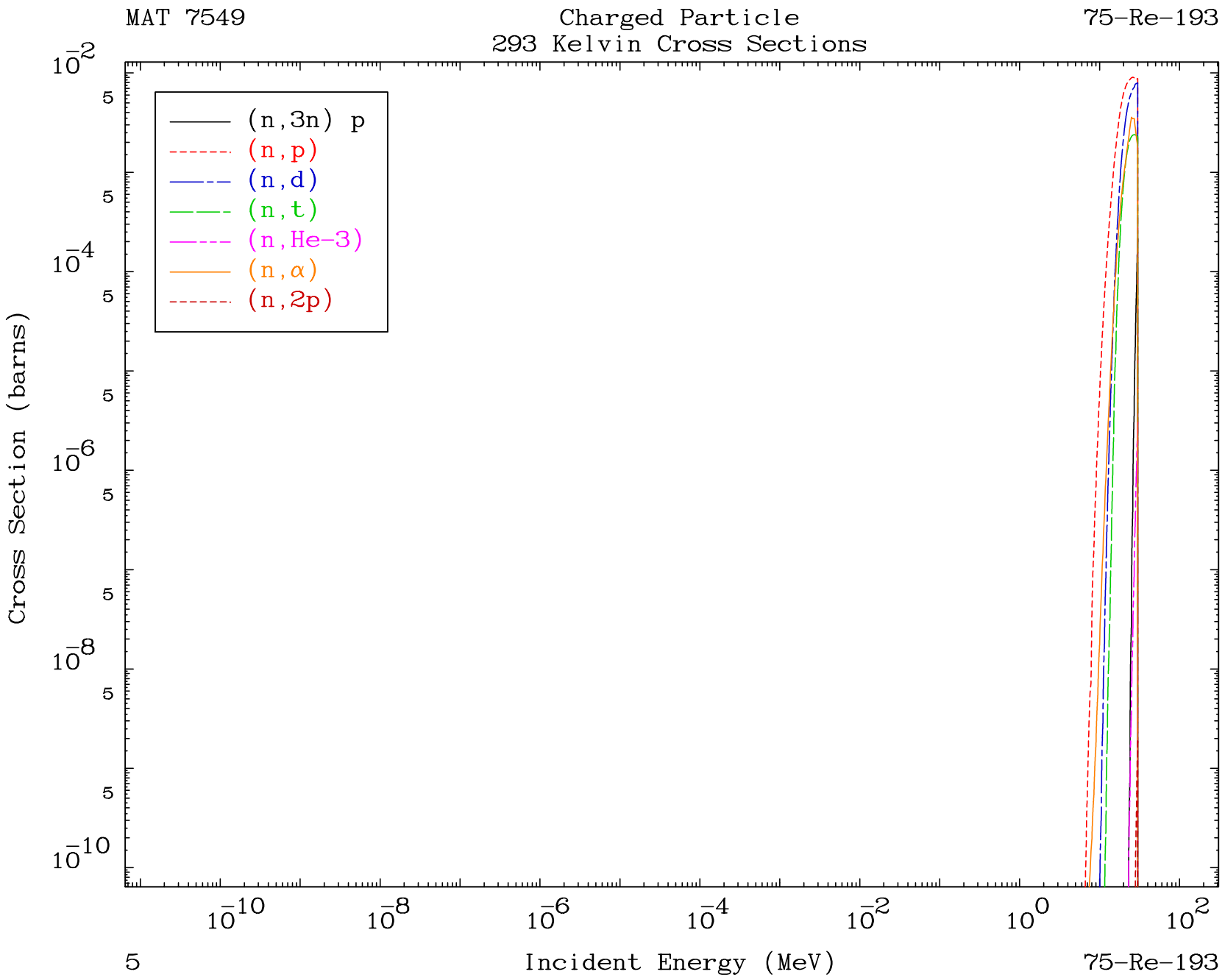
Press Mouse Button to Start

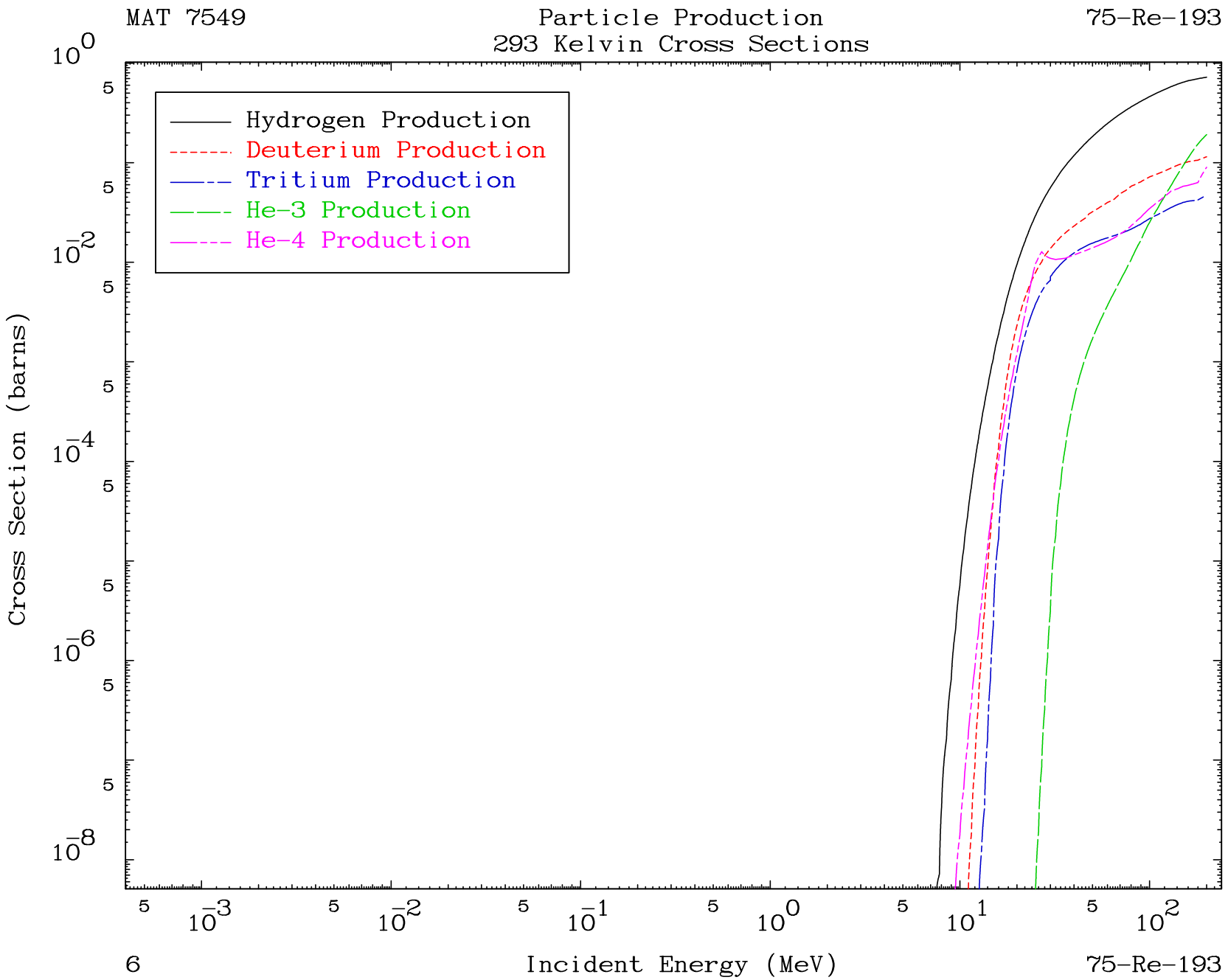

MAT 7549
Major
75-Re-193
293 Kelvin Cross Sections
Cross Section (barns)
Incident Energy (MeV)
Total
Elastic
Inelastic
(n,remainder)
(n,γ)
1
75-Re-193

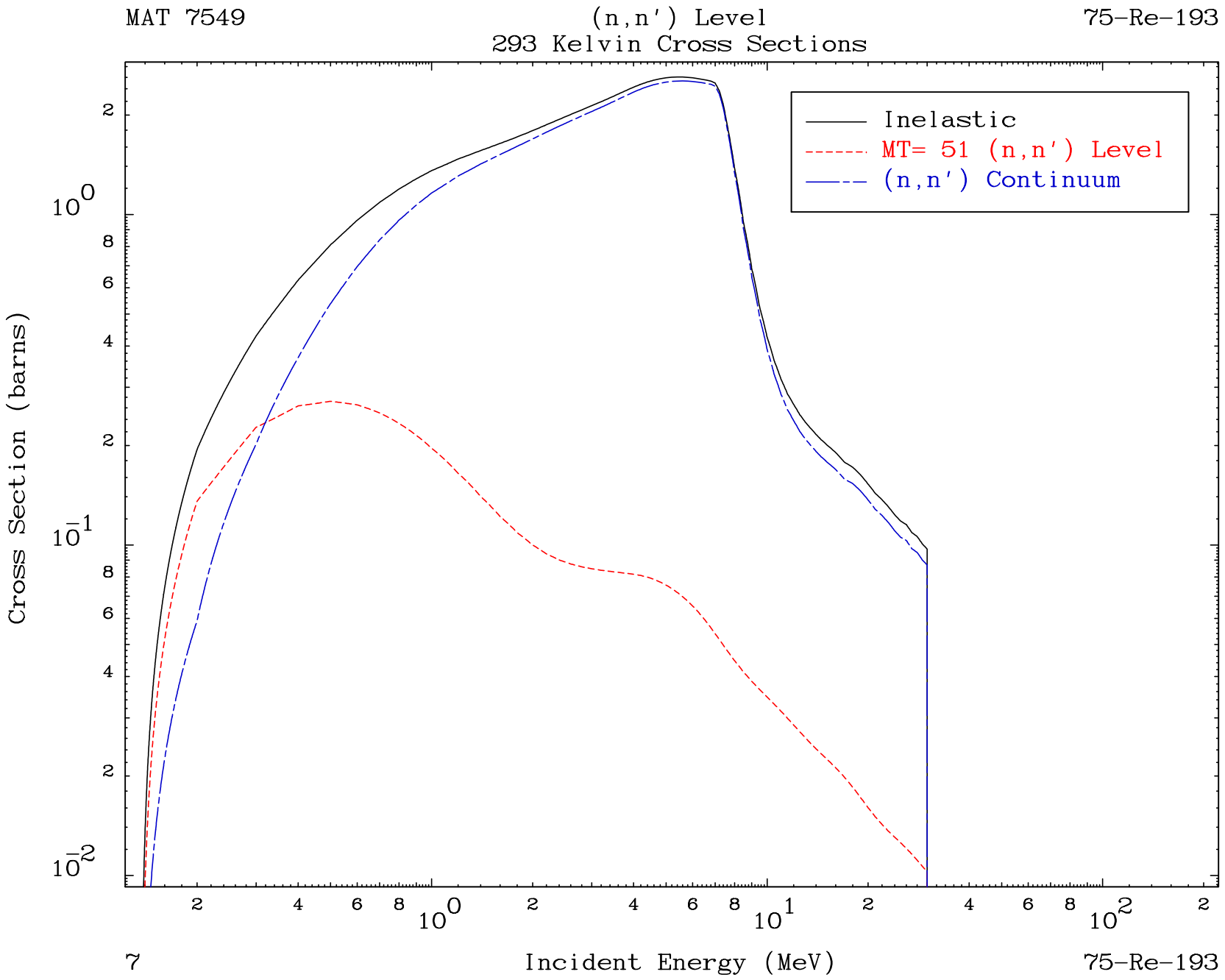

MAT 7549
Neutron Production
293 Kelvin Cross Sections
75-Re-193
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
Cross Section (barns)
Incident Energy (MeV)
75-Re-193

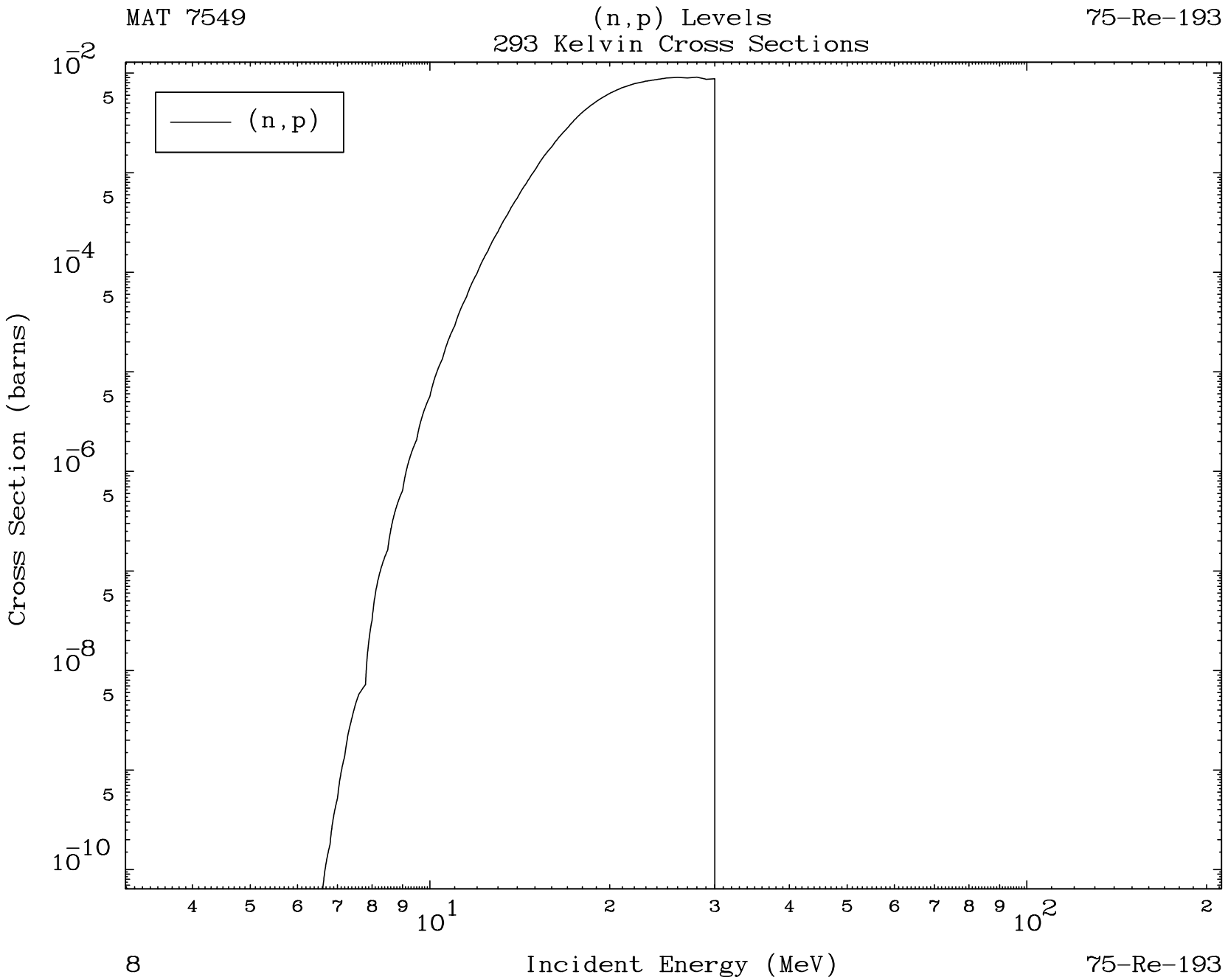

MAT 7549
Neutron Production
293 Kelvin Cross Sections
75-Re-193
(n,n') d
(n,n') t
(n,n') He-3
(n,4n)
(n,2n) p
(n,3n) p
Cross Section (barns)
Incident Energy (MeV)
3
75-Re-193

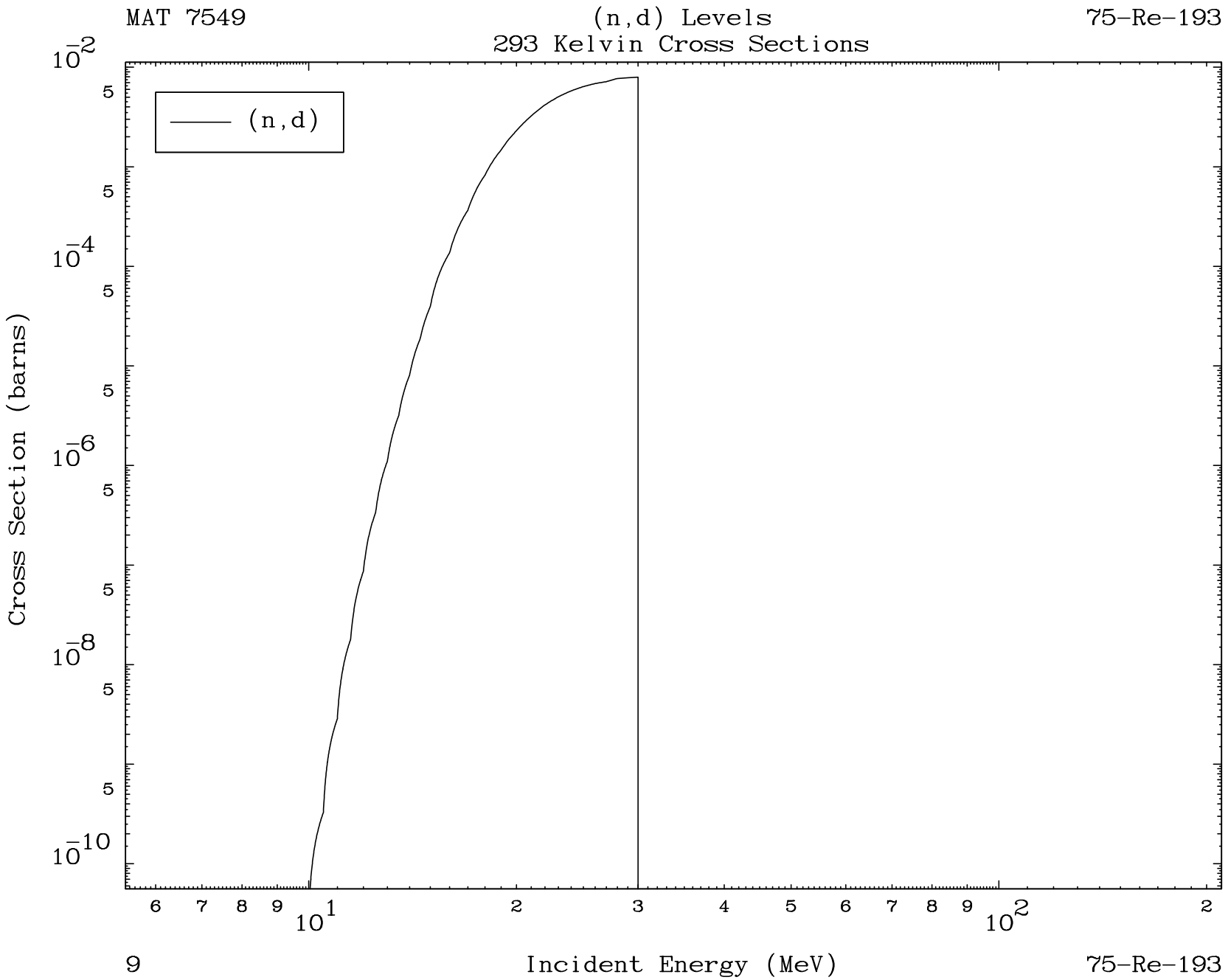

MAT 7549
Charged Particle
293 Kelvin Cross Sections
75-Re-193
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
Cross Section (barns)
Incident Energy (MeV)
4
75-Re-193

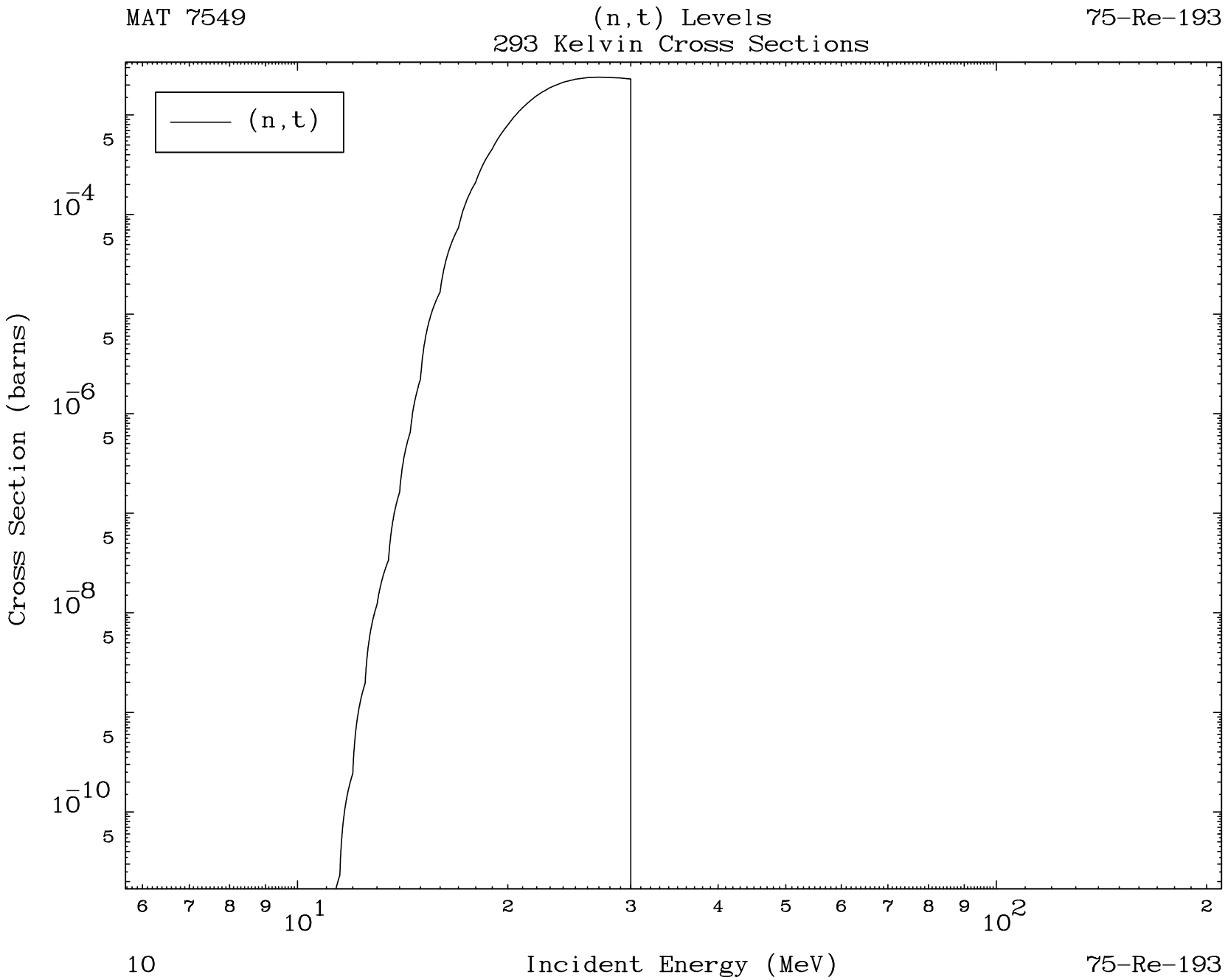

MAT 7549
Charged Particle
293 Kelvin Cross Sections
75-Re-193
(n,3n) p
(n,p)
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2p)
Cross Section (barns)
Incident Energy (MeV)
75-Re-193
5

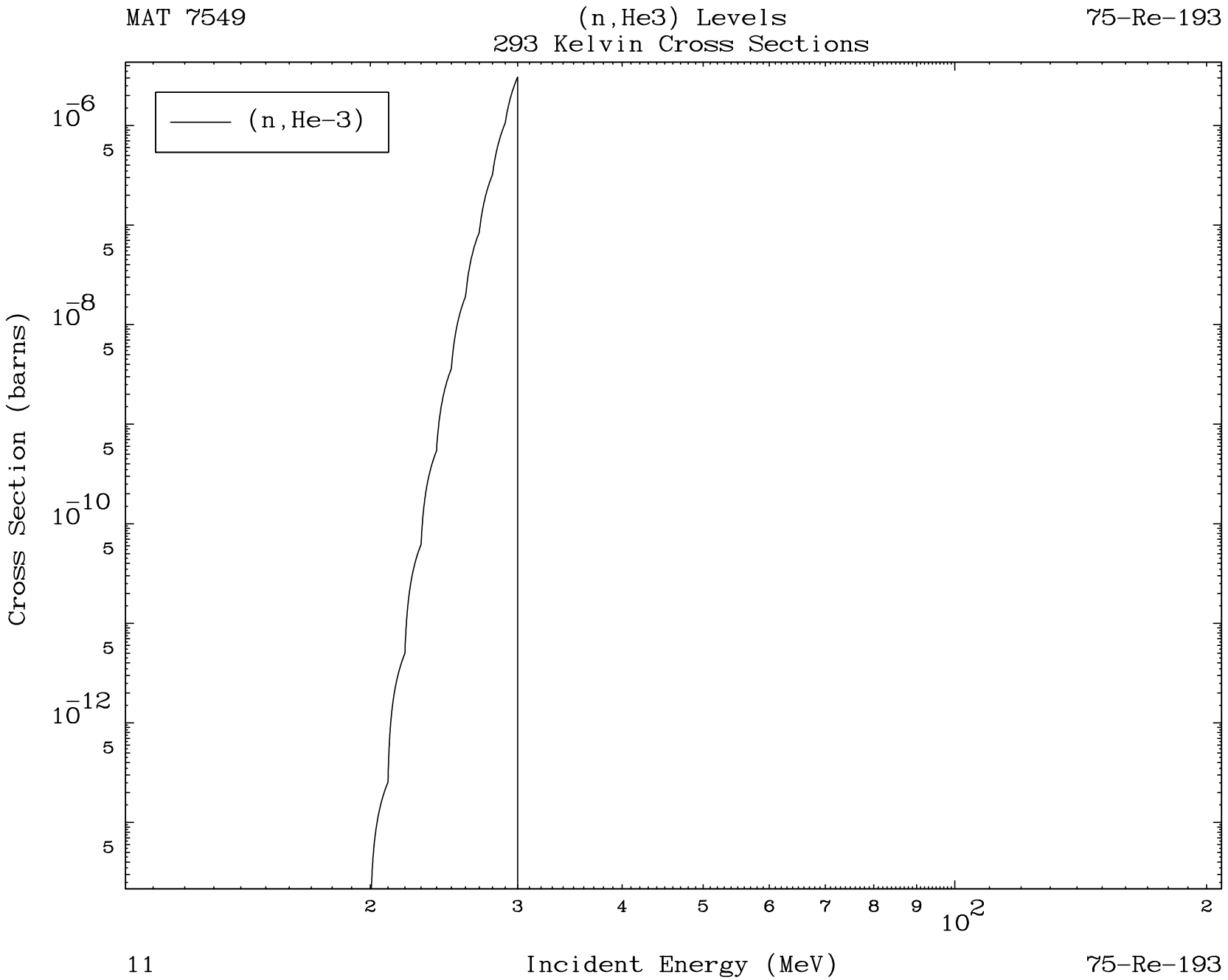

MAT 7549
Particle Production
293 Kelvin Cross Sections
75-Re-193
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production
Cross Section (barns)
Incident Energy (MeV)
75-Re-193
6

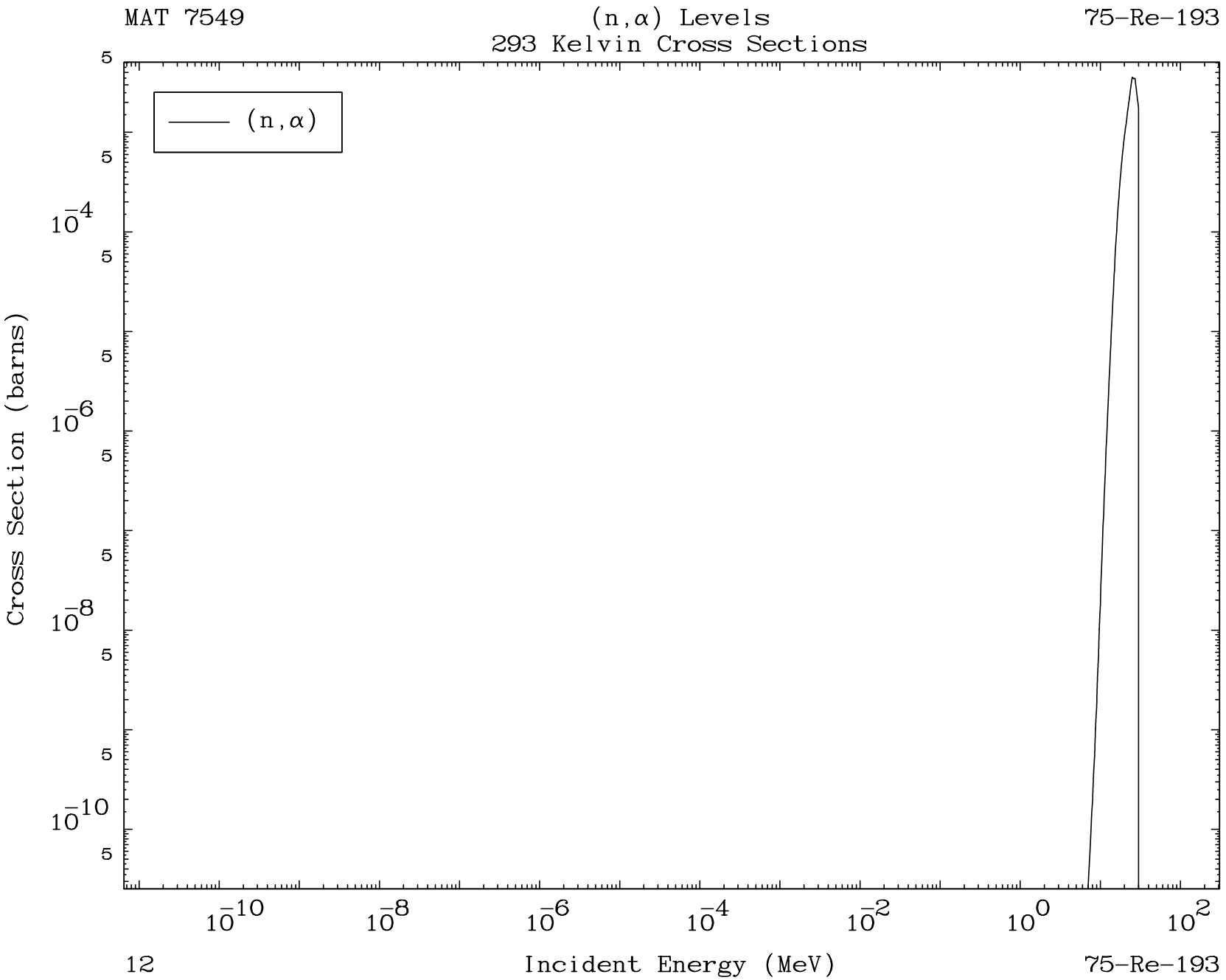

MAT 7549
(n,n') Level
75-Re-193
293 Kelvin Cross Sections
Inelastic
MT= 51 (n,n') Level
(n,n') Continuum
Cross Section (barns)
Incident Energy (MeV)
7
75-Re-193

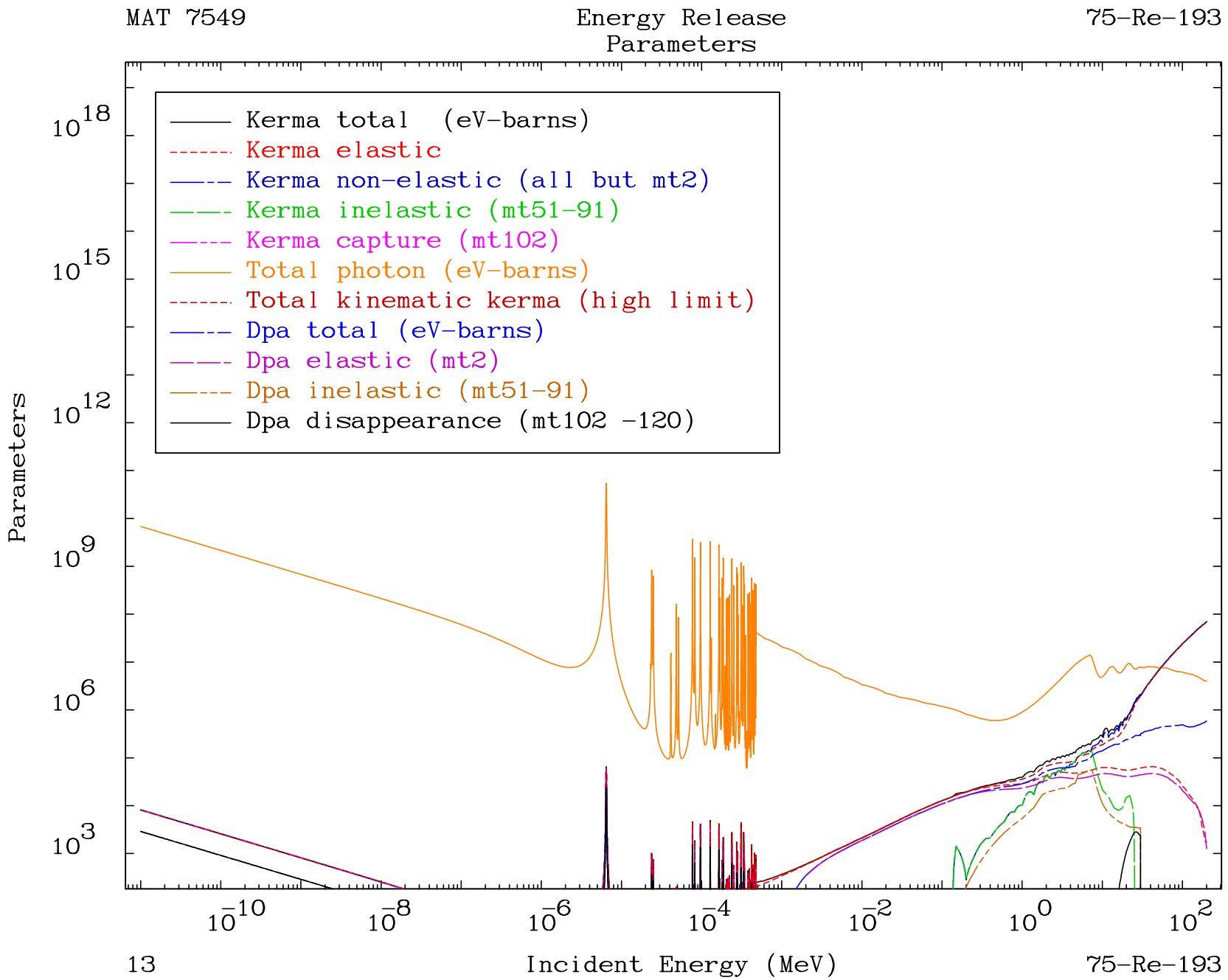

MAT 7549
(n,p) Levels
75-Re-193
293 Kelvin Cross Sections
(n,p)
Cross Section (barns)
Incident Energy (MeV)
8
75-Re-193

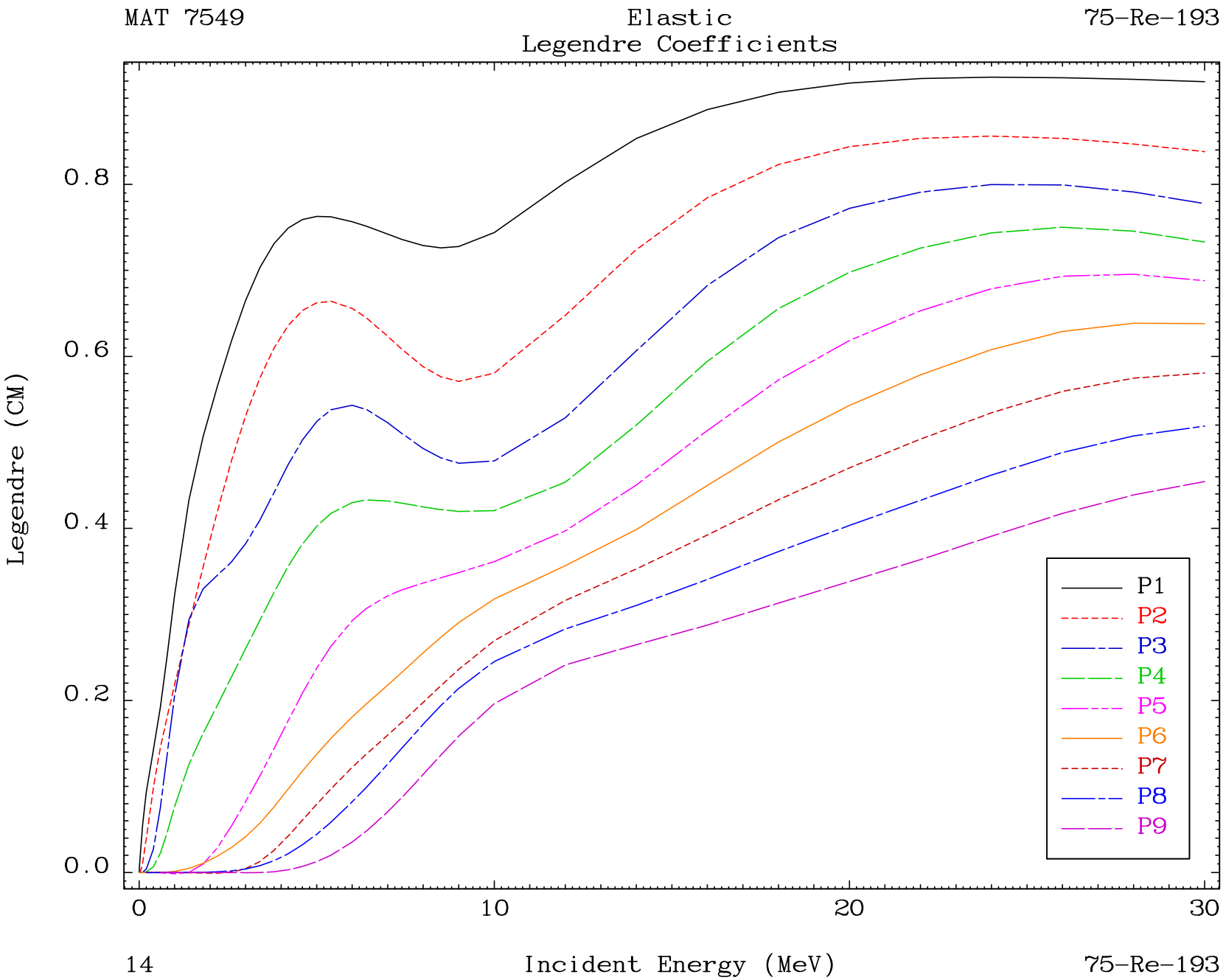

MAT 7549
(n,d) Levels
75-Re-193
293 Kelvin Cross Sections
(n,d)
Cross Section (barns)
Incident Energy (MeV)
9
75-Re-193

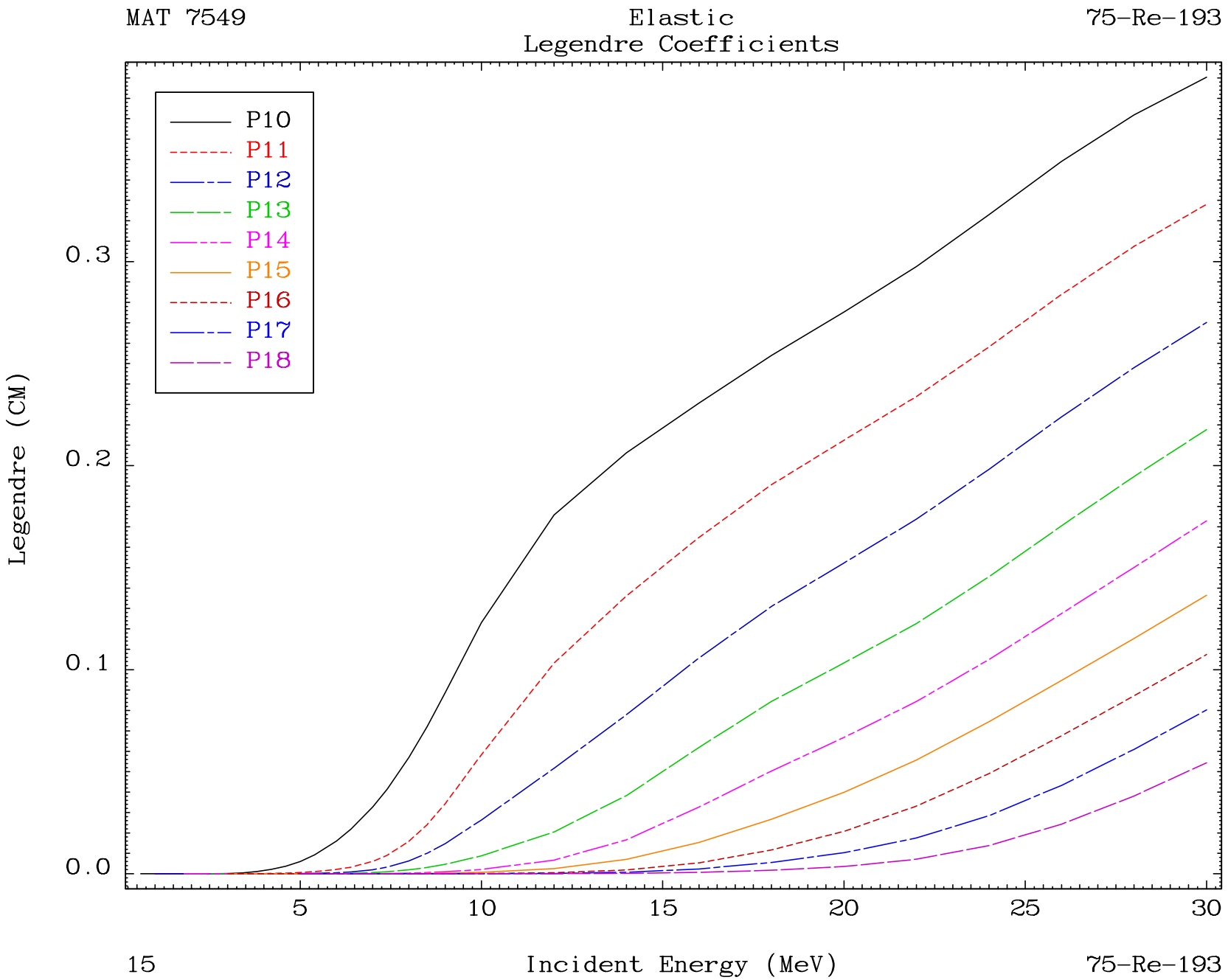

MAT 7549
(n,t) Levels
75-Re-193
293 Kelvin Cross Sections
(n,t)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
6 7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
10
Incident Energy (MeV)
75-Re-193

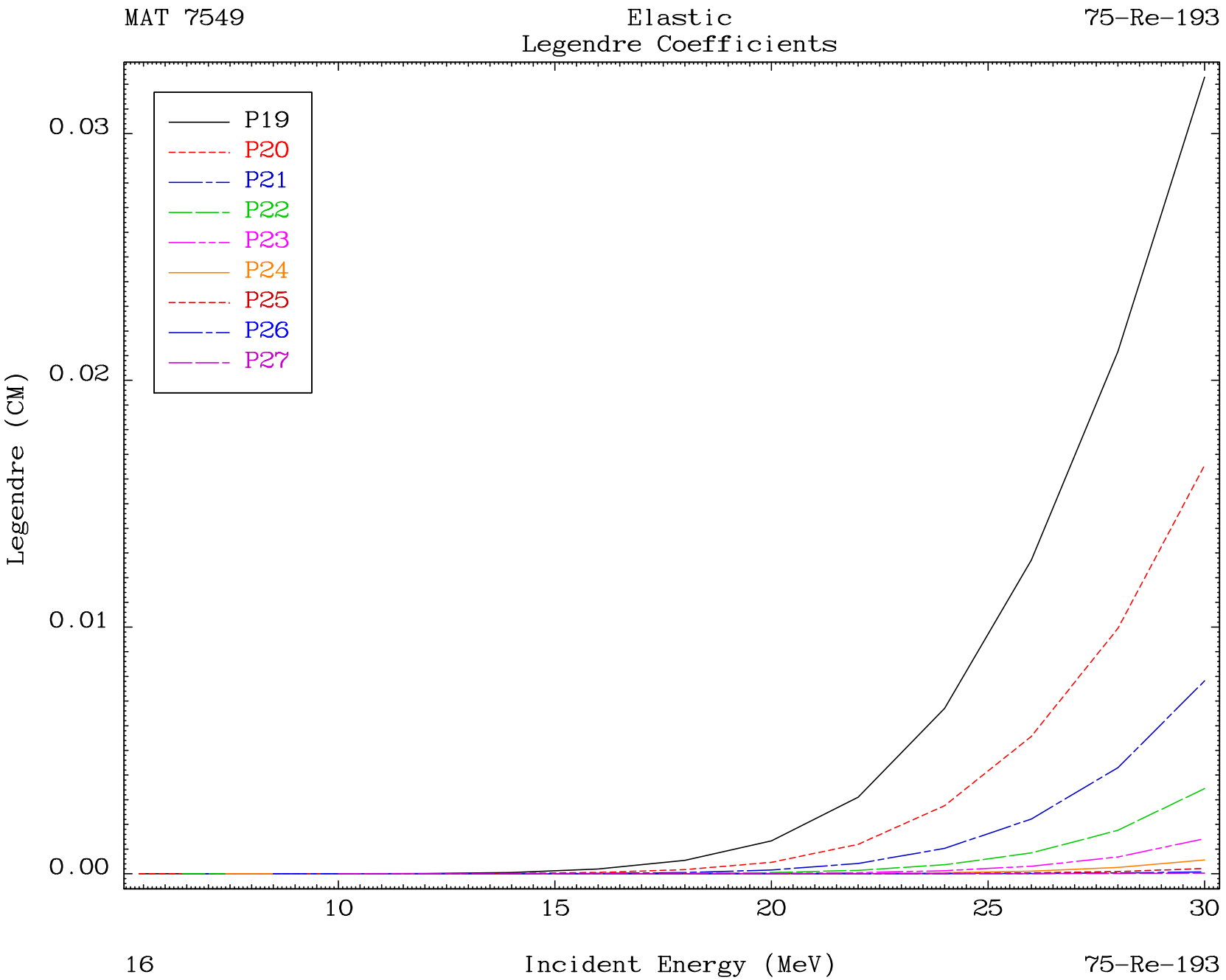

MAT 7549
(n,He3) Levels
75-Re-193
293 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
2
3
4
5
6
7
8
9
10^2
2
11
Incident Energy (MeV)
75-Re-193

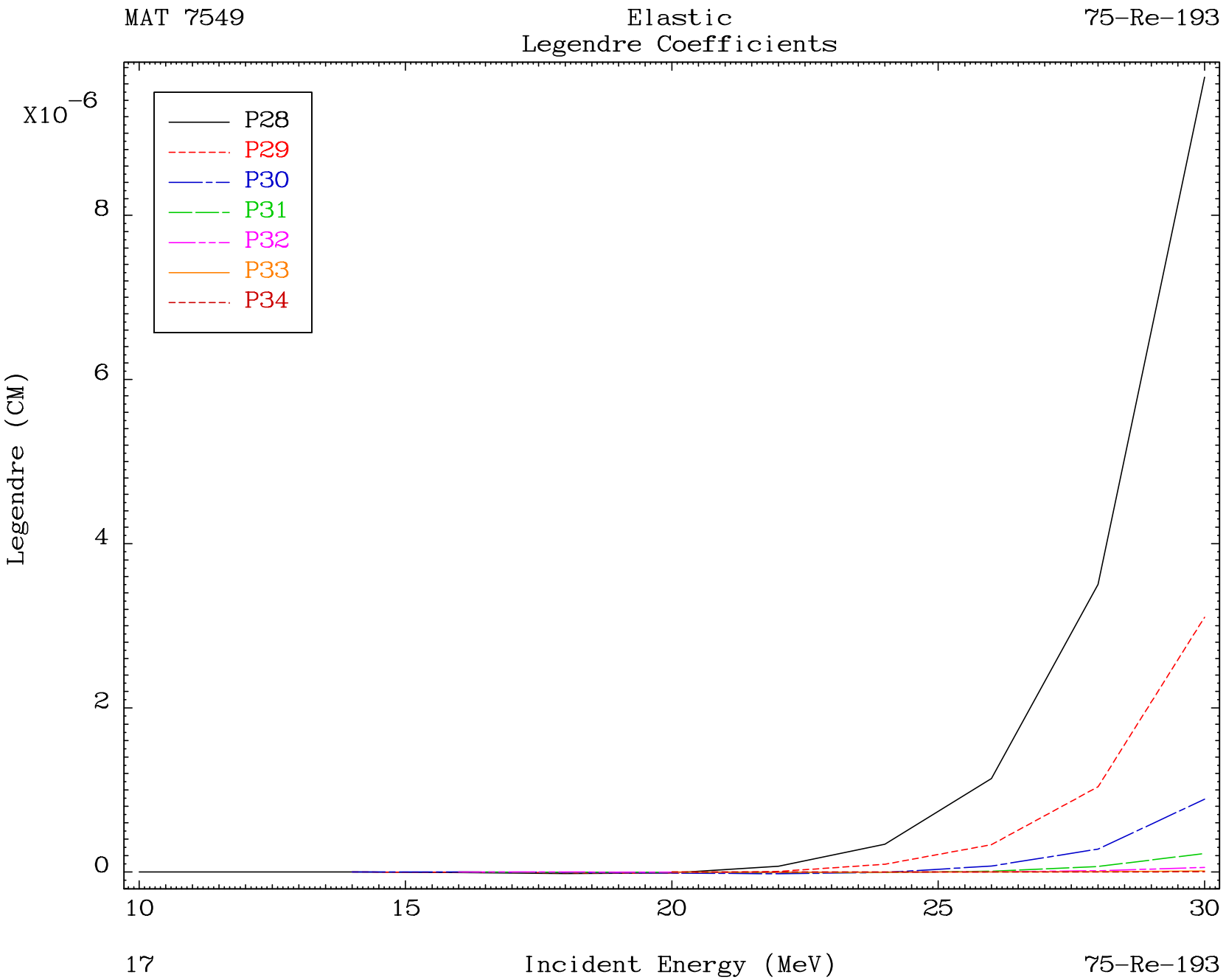

MAT 7549
(n,α) Levels
75-Re-193
293 Kelvin Cross Sections
(n,α)
Cross Section (barns)
Incident Energy (MeV)
12
75-Re-193

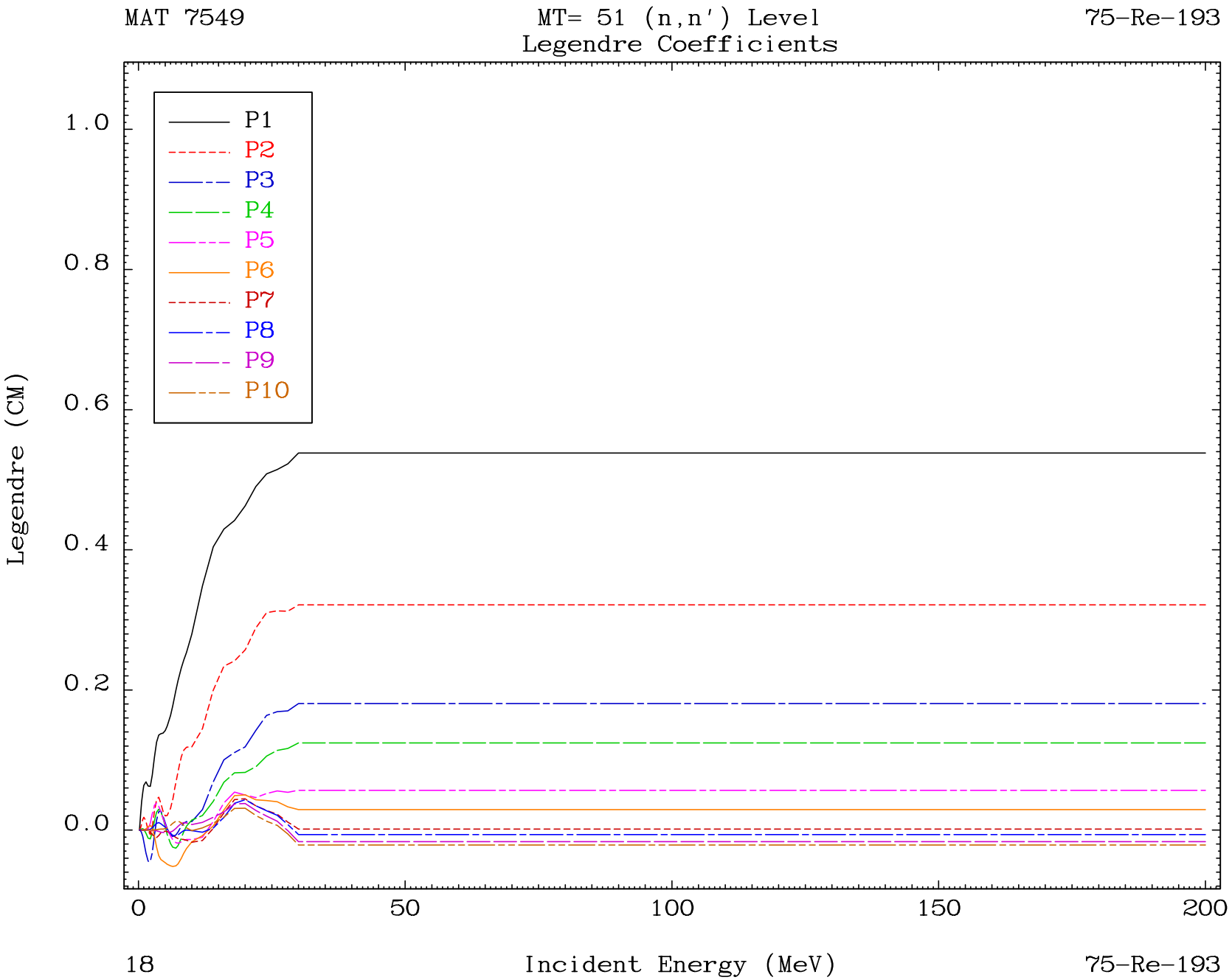

MAT 7549
Energy Release
Parameters
75-Re-193
Kerma total (eV-barns)
Kerma elastic
Kerma non-elastic (all but mt2)
Kerma inelastic (mt51-91)
Kerma capture (mt102)
Total photon (eV-barns)
Total kinematic kerma (high limit)
Dpa total (eV-barns)
Dpa elastic (mt2)
Dpa inelastic (mt51-91)
Dpa disappearance (mt102 -120)
Parameters
10^{18}
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)
75-Re-193

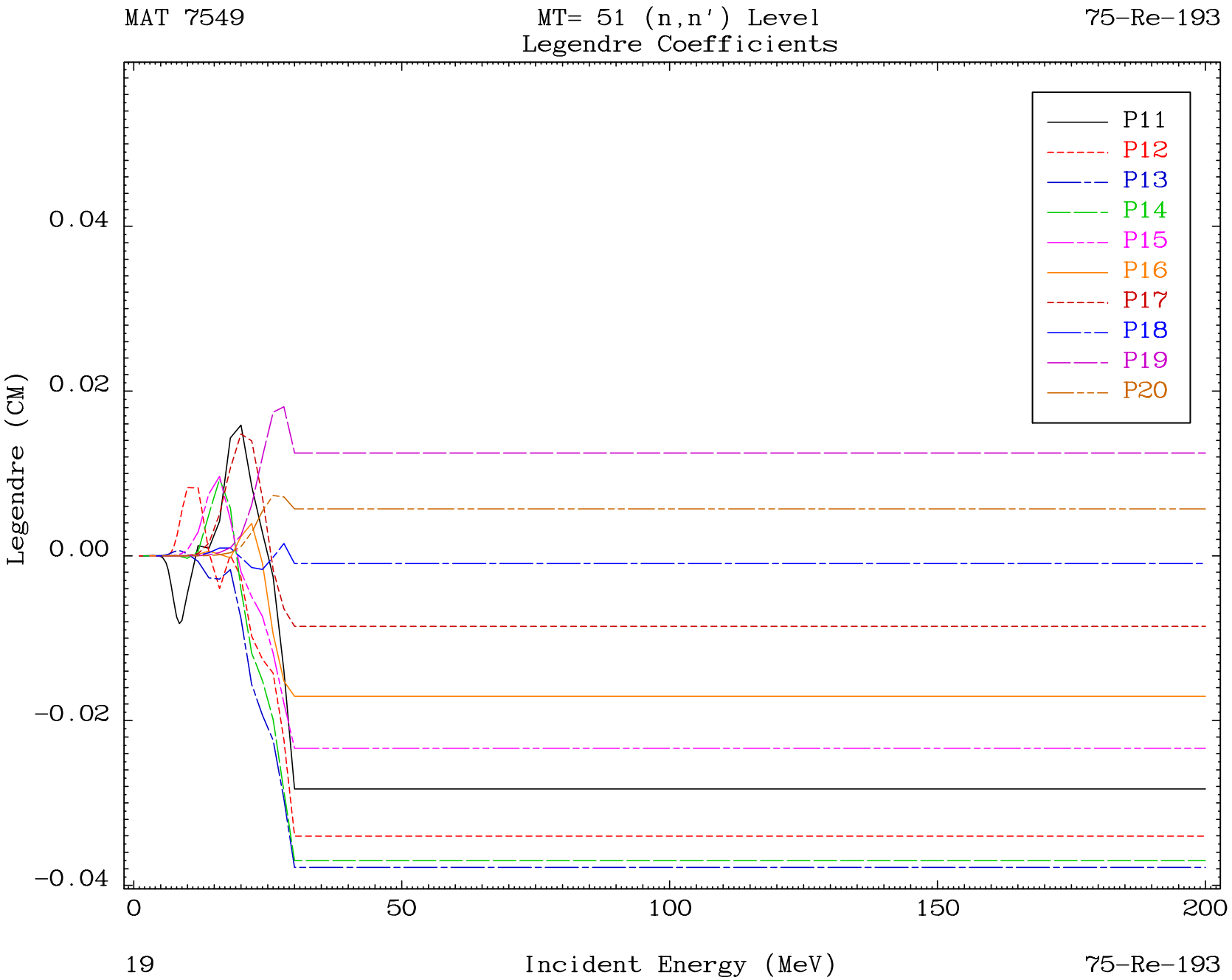

MAT 7549
Elastic
Legendre Coefficients
75-Re-193
Legendre (CM)
0.0
0.2
0.4
0.6
0.8
0
10
20
30
14
Incident Energy (MeV)
75-Re-193
P1
P2
P3
P4
P5
P6
P7
P8
P9

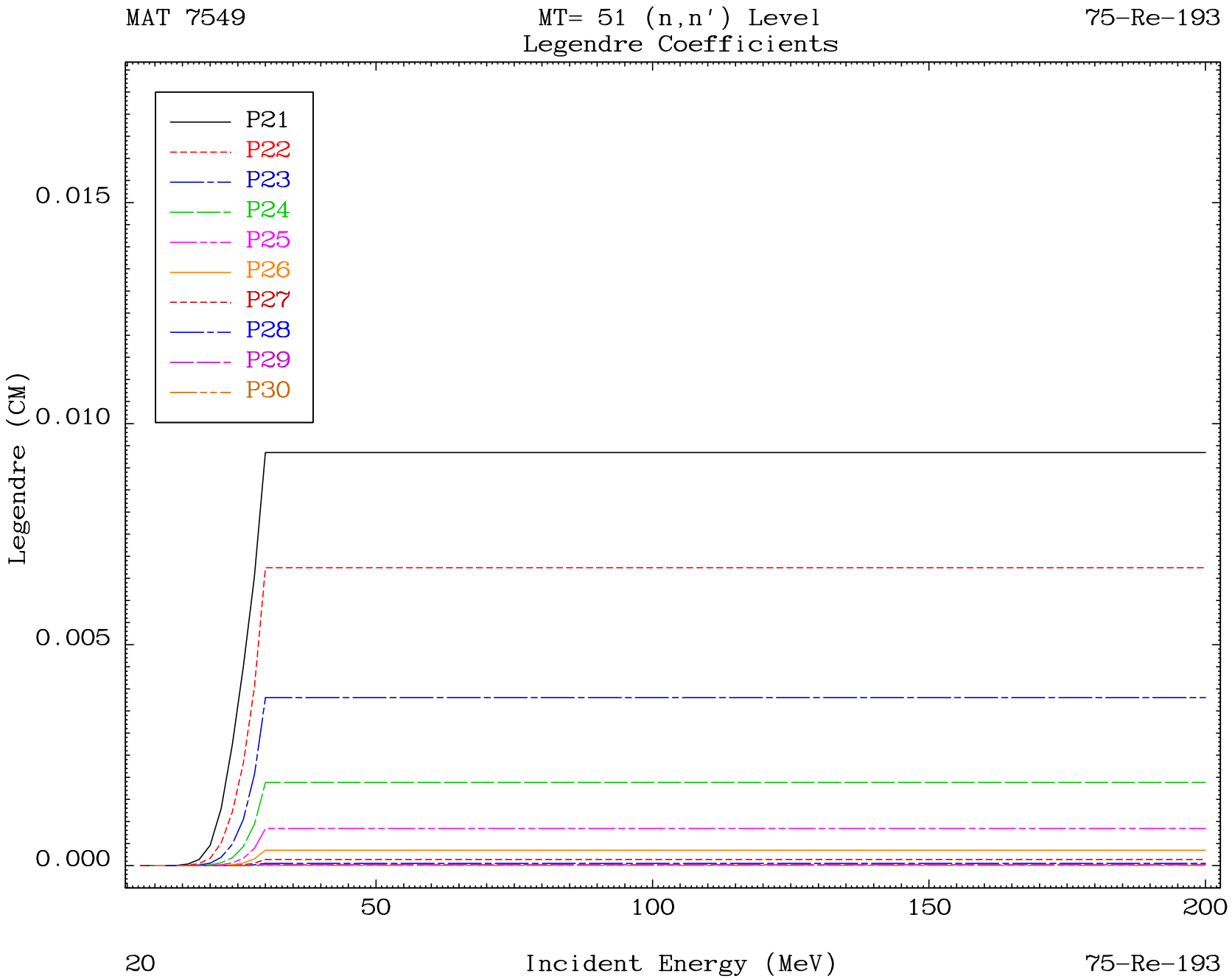

MAT 7549
Elastic
Legendre Coefficients
75-Re-193
P10
P11
P12
P13
P14
P15
P16
P17
P18
Legendre (CM)
0.0
0.1
0.2
0.3
5
10
15
20
25
30
15
Incident Energy (MeV)
75-Re-193

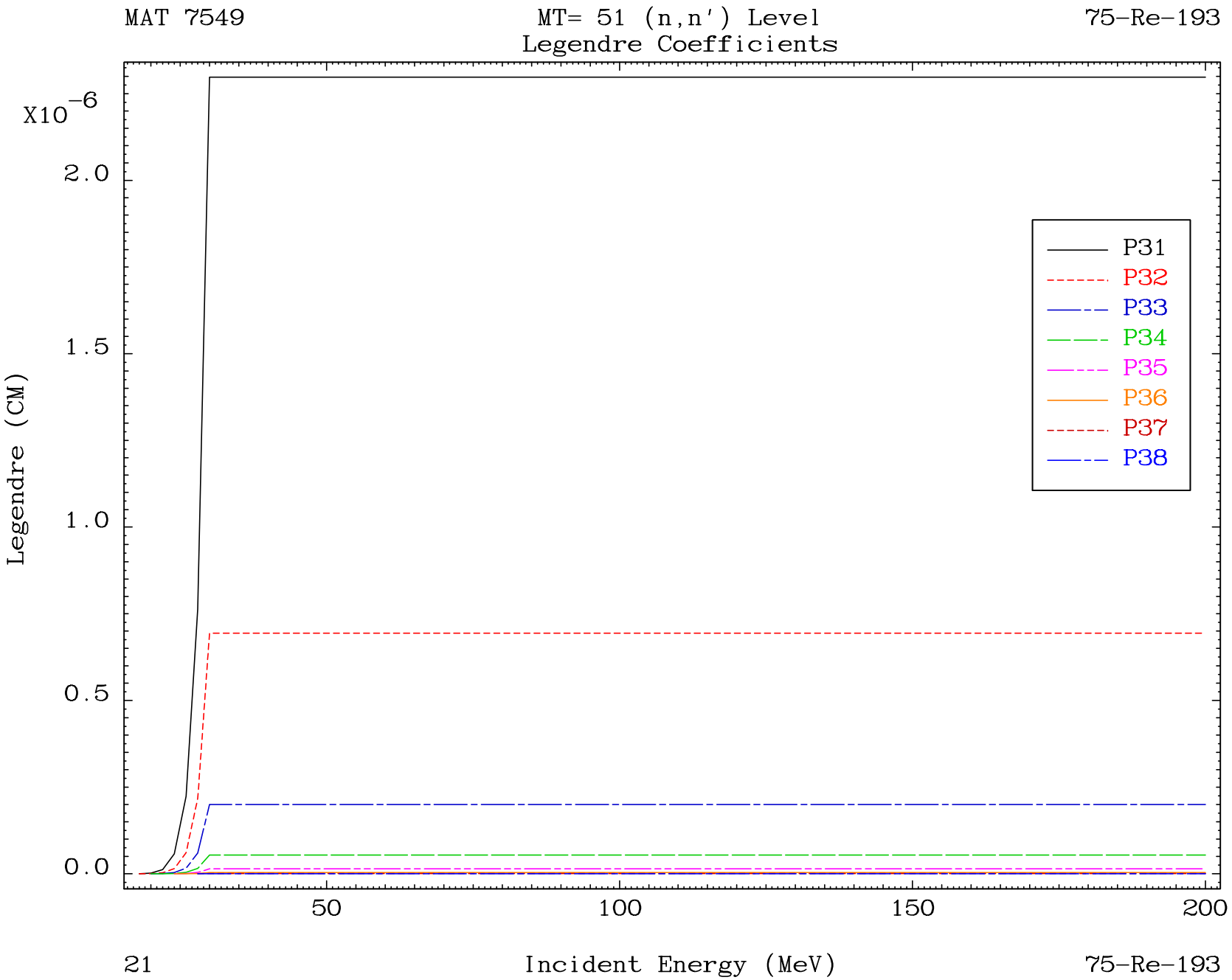

MAT 7549
Elastic
Legendre Coefficients
75-Re-193
P19
P20
P21
P22
P23
P24
P25
P26
P27
0.03
0.02
0.01
0.00
Legendre (CM)
10
15
20
25
30
16
Incident Energy (MeV)
75-Re-193

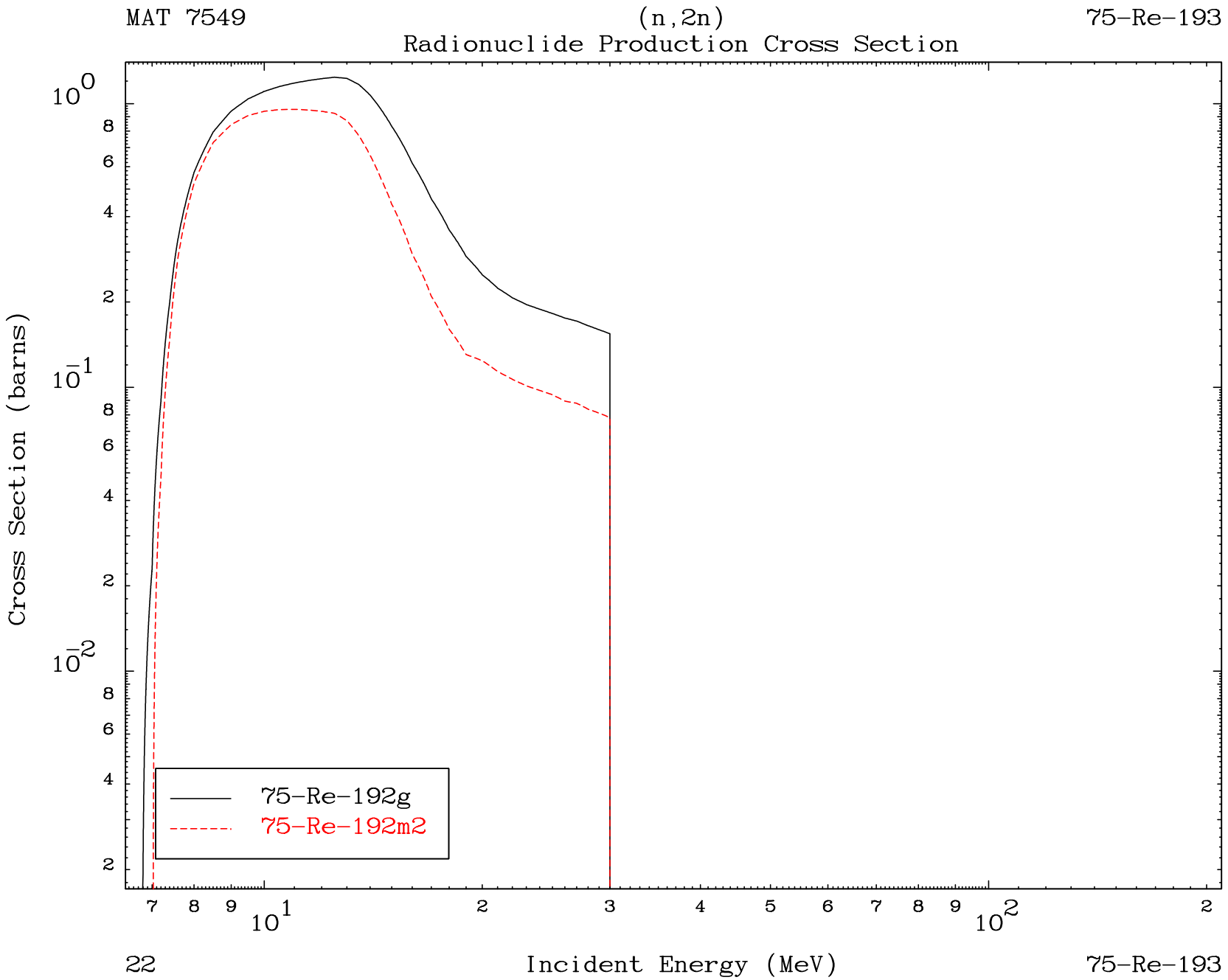

MAT 7549
Elastic
Legendre Coefficients
75-Re-193
X10 −6
8
6
4
2
0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
10
15
20
25
30
17
Incident Energy (MeV)
75-Re-193

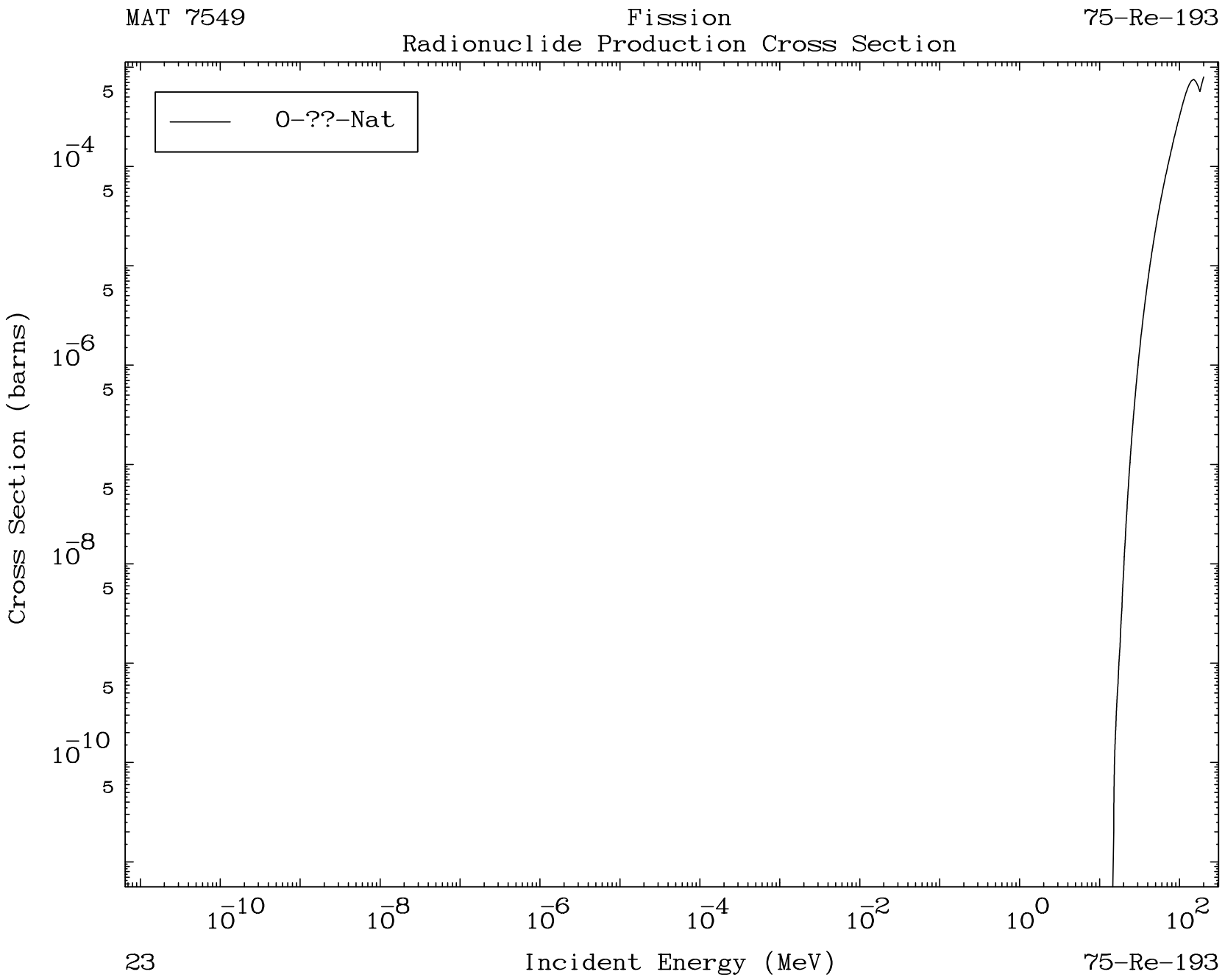

MAT 7549
MT= 51 (n,n') Level
Legendre Coefficients
75-Re-193
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
Legendre (CM)
1.0
0.8
0.6
0.4
0.2
0.0
0
50
100
150
200
18
Incident Energy (MeV)
75-Re-193

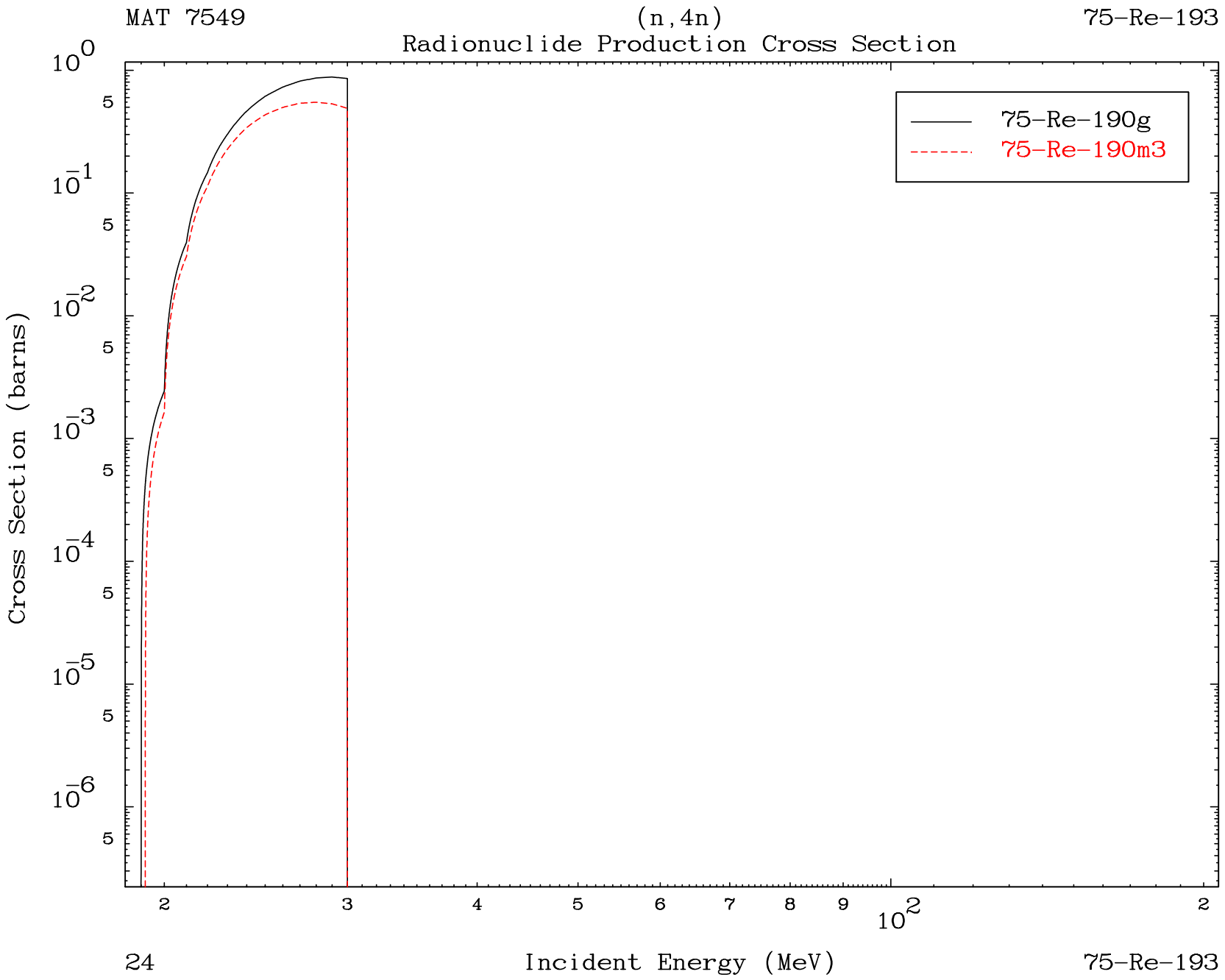

MAT 7549
MT= 51 (n,n') Level
Legendre Coefficients
75-Re-193
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.04
0.02
0.00
-0.02
-0.04
Legendre (CM)
0
50
100
150
200
19
Incident Energy (MeV)
75-Re-193


MAT 7549
MT= 51 (n,n') Level
Legendre Coefficients
75-Re-193
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
0.015
0.010
0.005
0.000
Legendre (CM)
50
100
150
200
20
Incident Energy (MeV)
75-Re-193


MAT 7549
MT= 51 (n,n') Level
Legendre Coefficients
75-Re-193
X10^-6
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P31
P32
P33
P34
P35
P36
P37
P38
50
100
150
200
21
Incident Energy (MeV)
75-Re-193


MAT 7549
(n,2n)
75-Re-193
Radionuclide Production Cross Section
Cross Section (barns)
10^0
10^-1
10^-2
75-Re-192g
75-Re-192m2
7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
22
Incident Energy (MeV)
75-Re-193


MAT 7549
Fission
75-Re-193
Radionuclide Production Cross Section
0-??-Nat
Cross Section (barns)
Incident Energy (MeV)
23
75-Re-193


MAT 7549
(n,4n)
75-Re-193
Radionuclide Production Cross Section
75-Re-190g
75-Re-190m3
Cross Section (barns)
Incident Energy (MeV)
24
75-Re-193