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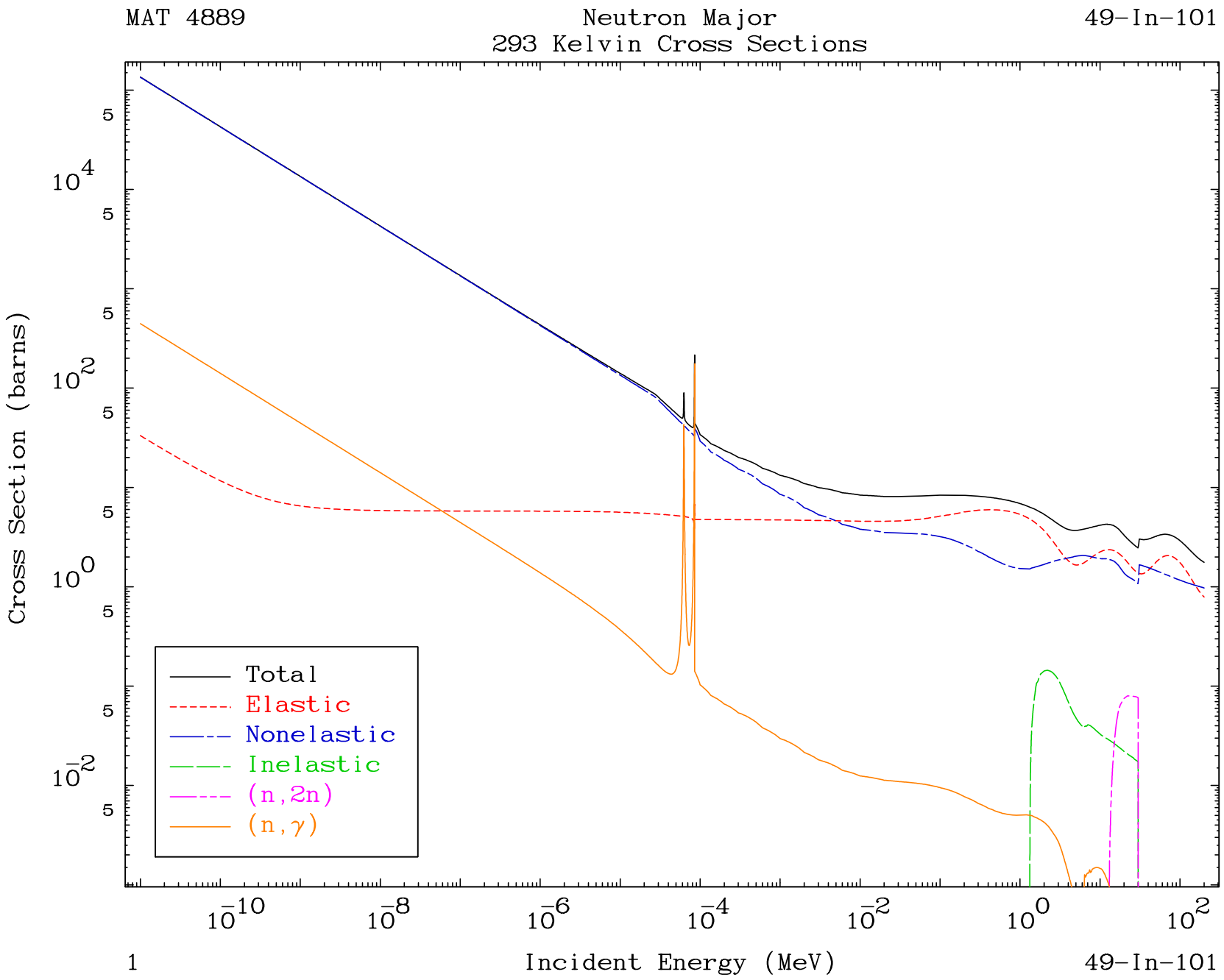
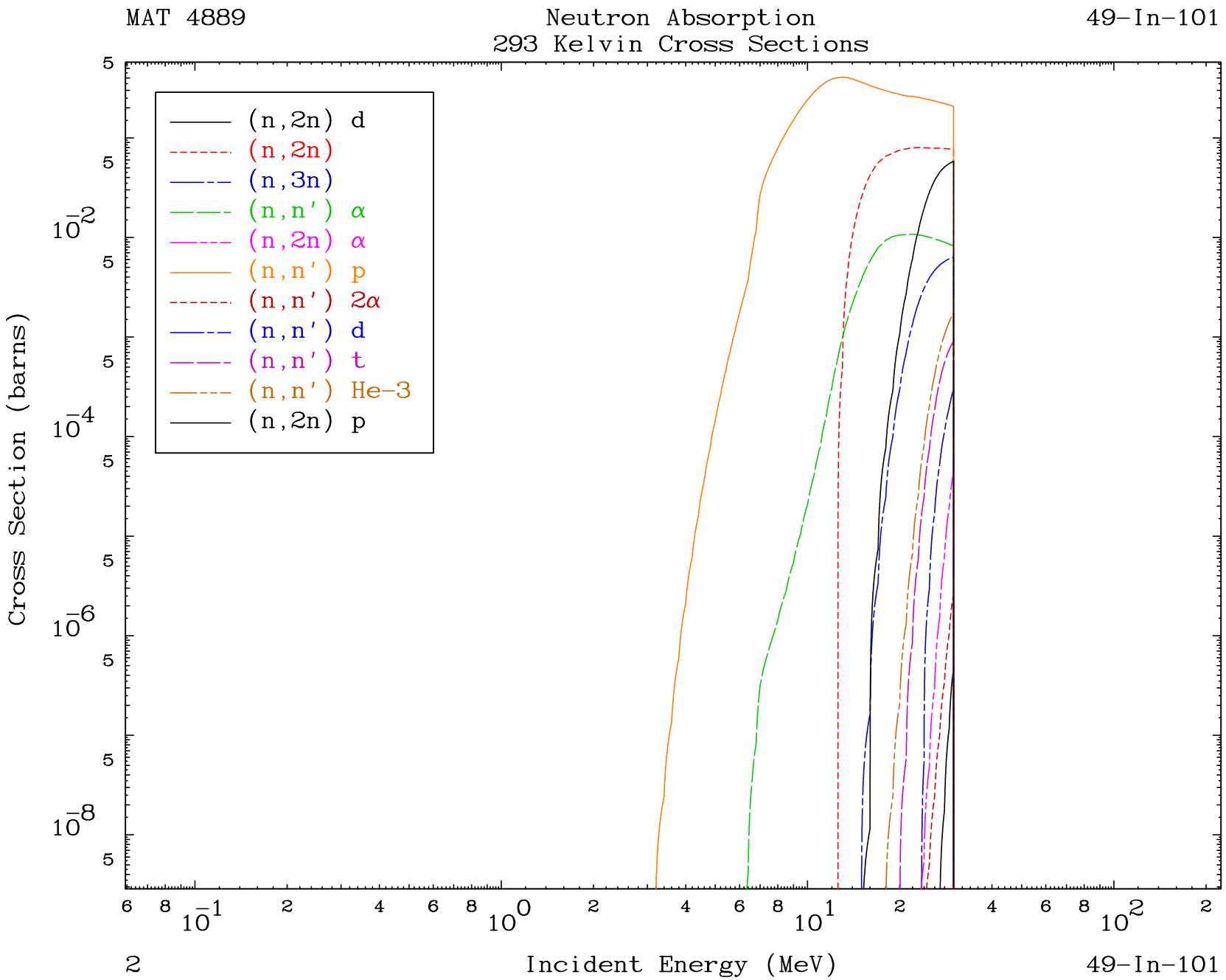
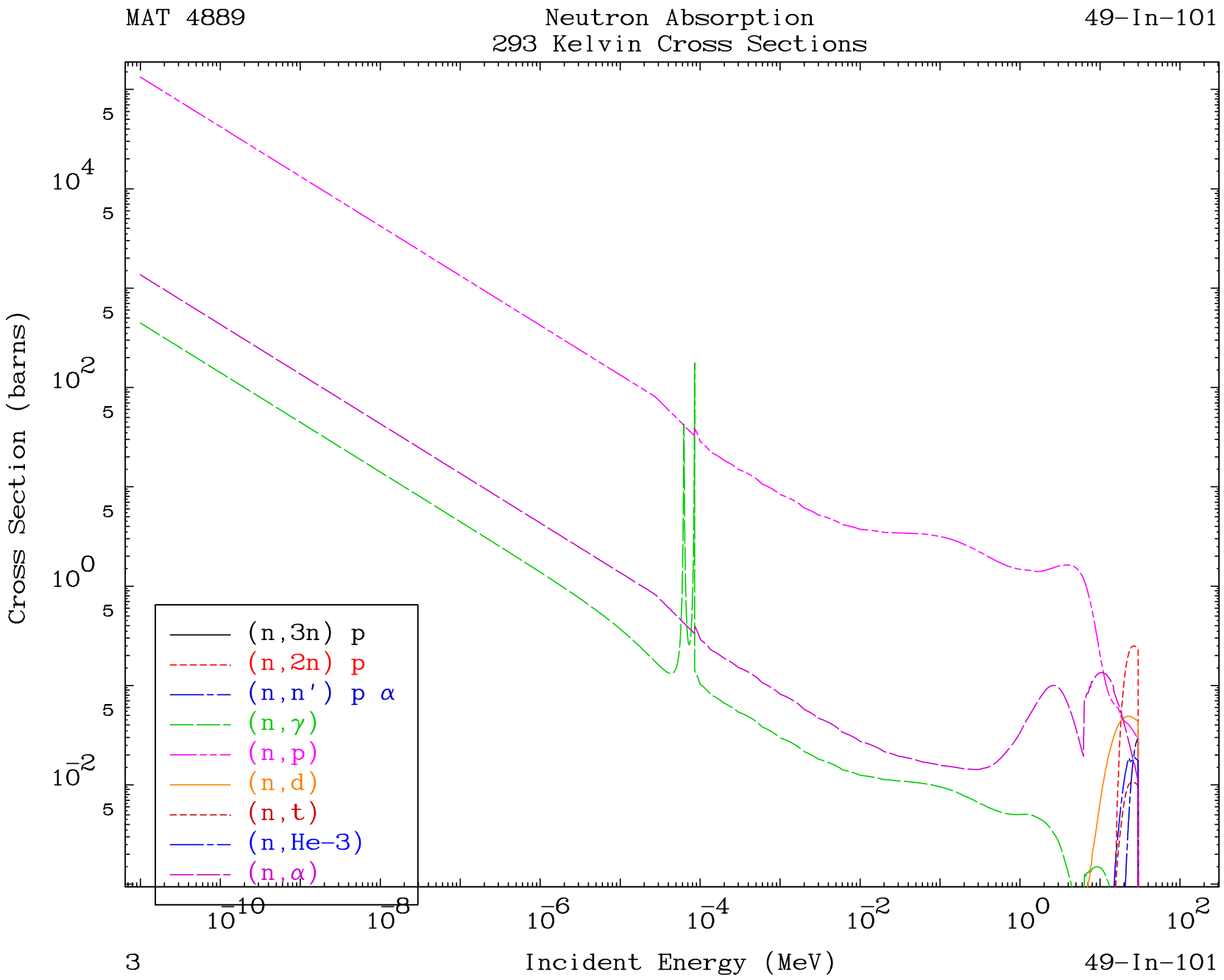
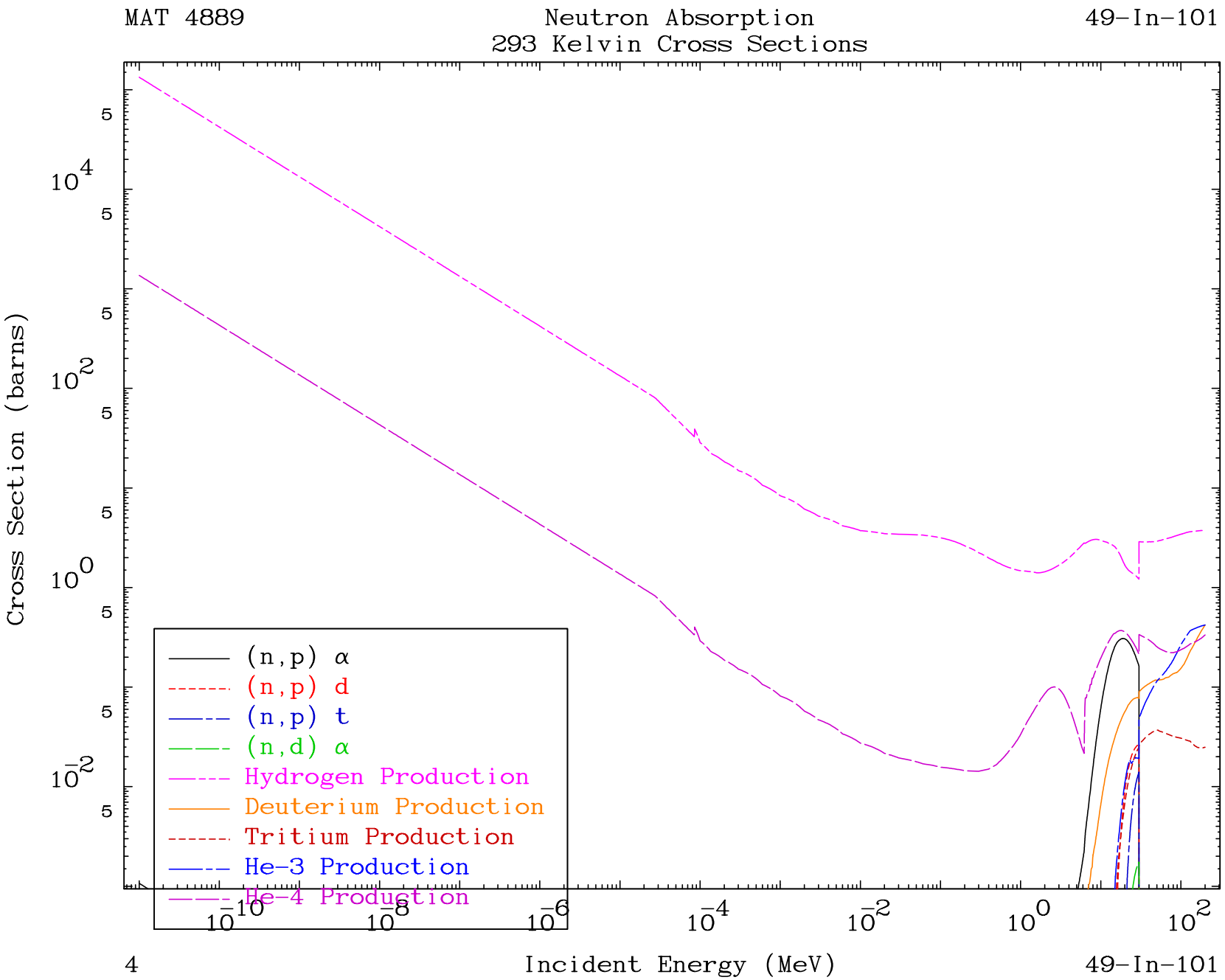
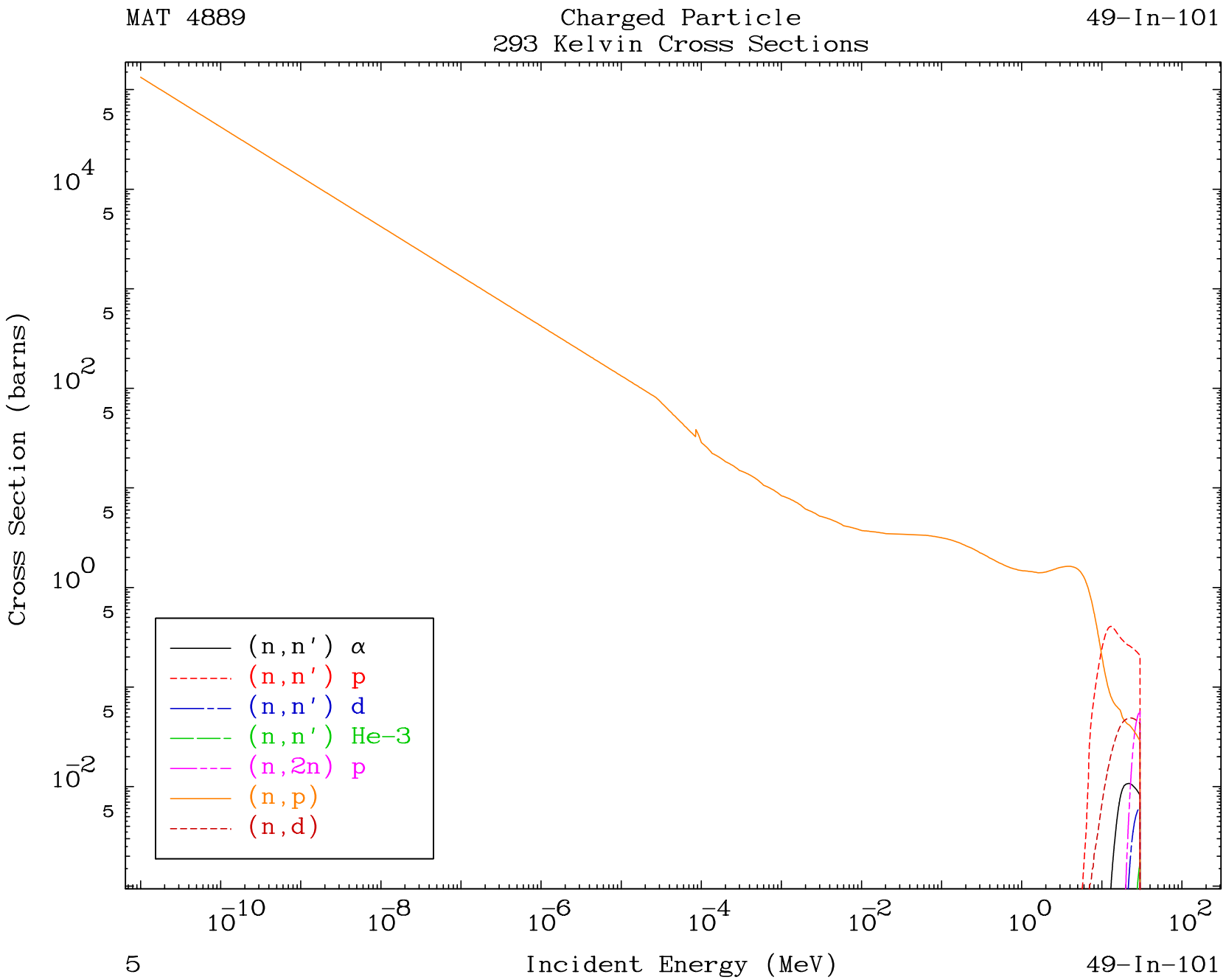
Press Mouse Button to Start

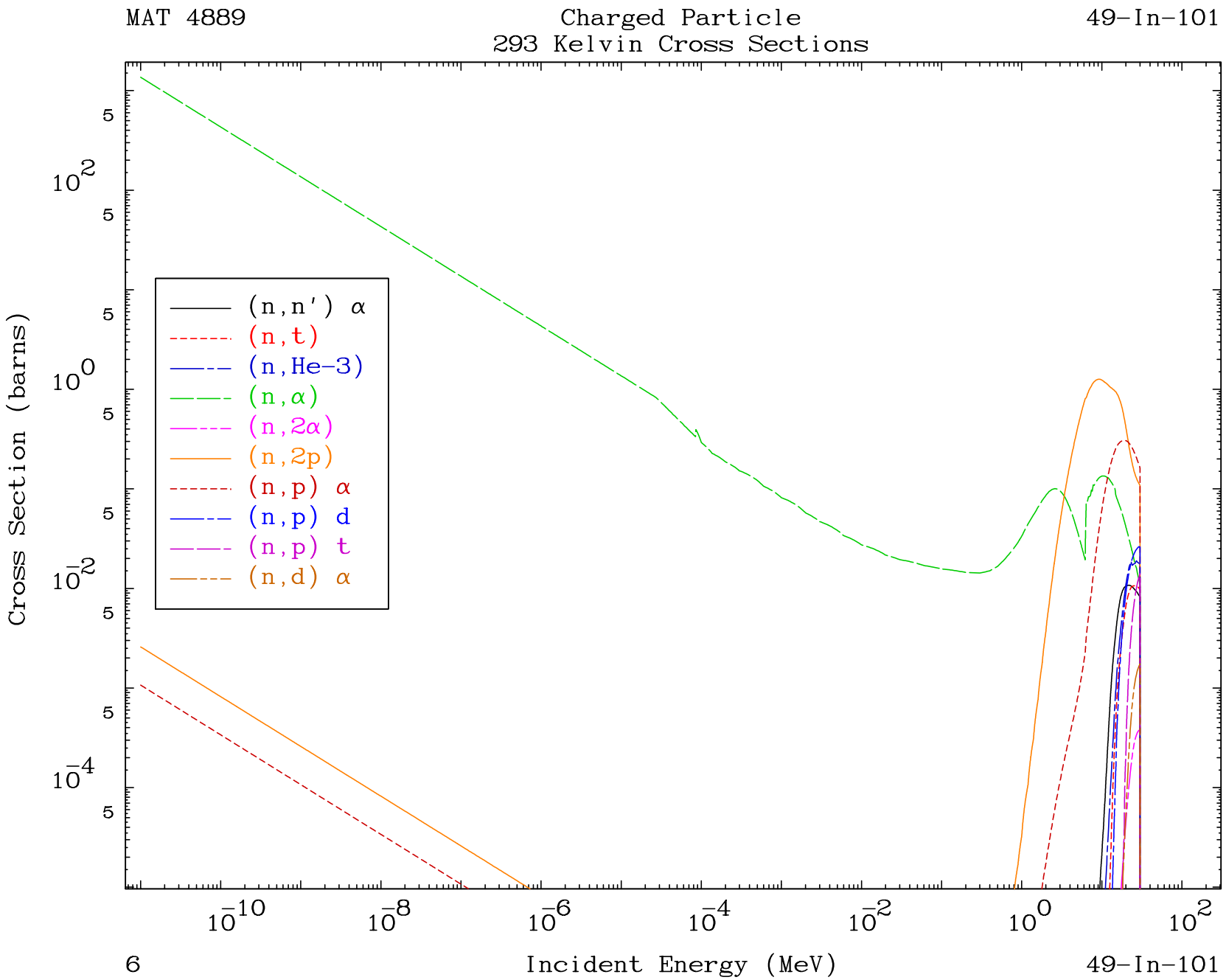

MAT 4889
Neutron Major
293 Kelvin Cross Sections
49-In-101
Cross Section (barns)
Incident Energy (MeV)
Total
Elastic
Nonelastic
Inelastic
(n,2n)
(n,γ)
1
49-In-101

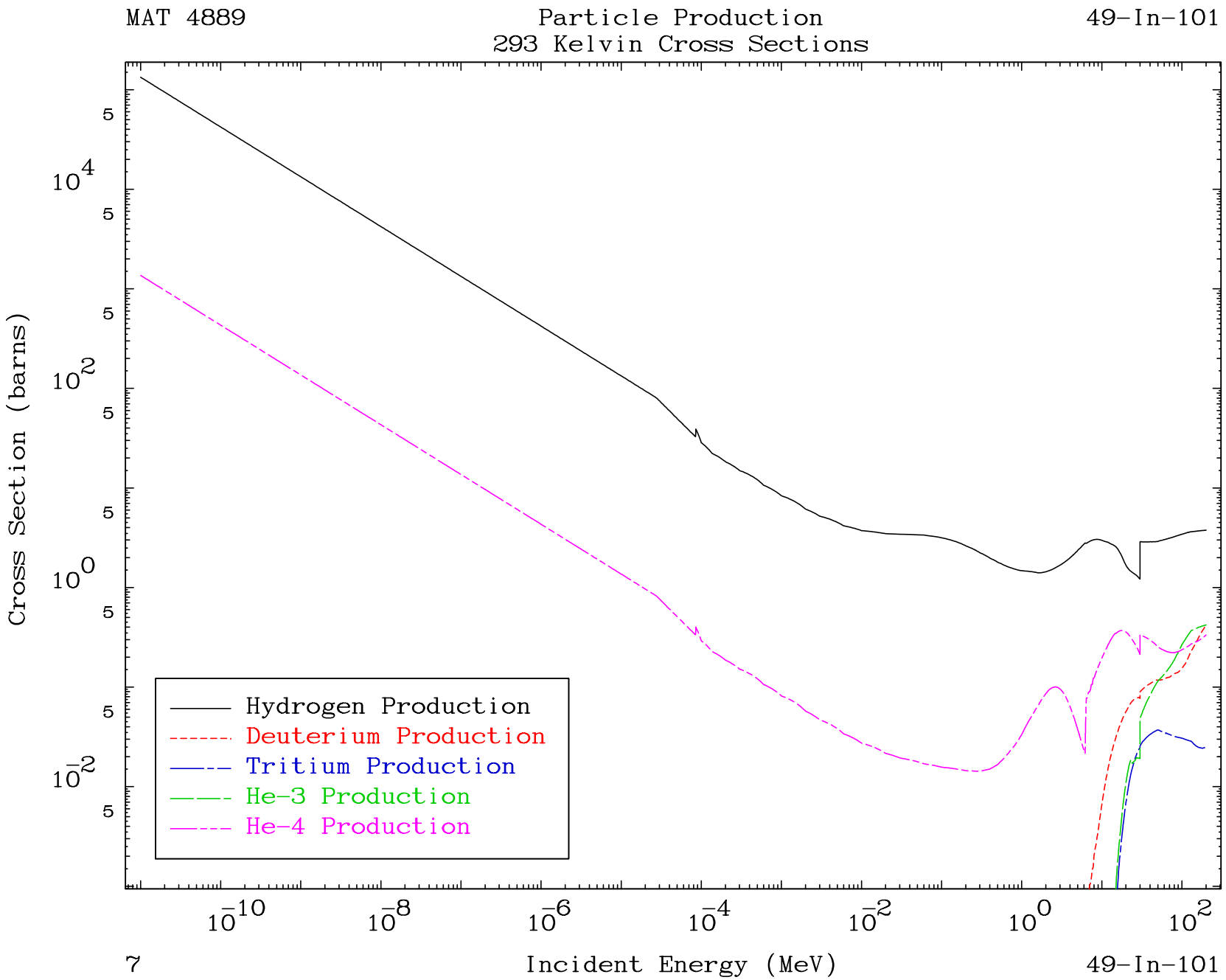

MAT 4889
Neutron Absorption
293 Kelvin Cross Sections
49-In-101
(n,2n) d
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
Cross Section (barns)
Incident Energy (MeV)
49-In-101
2

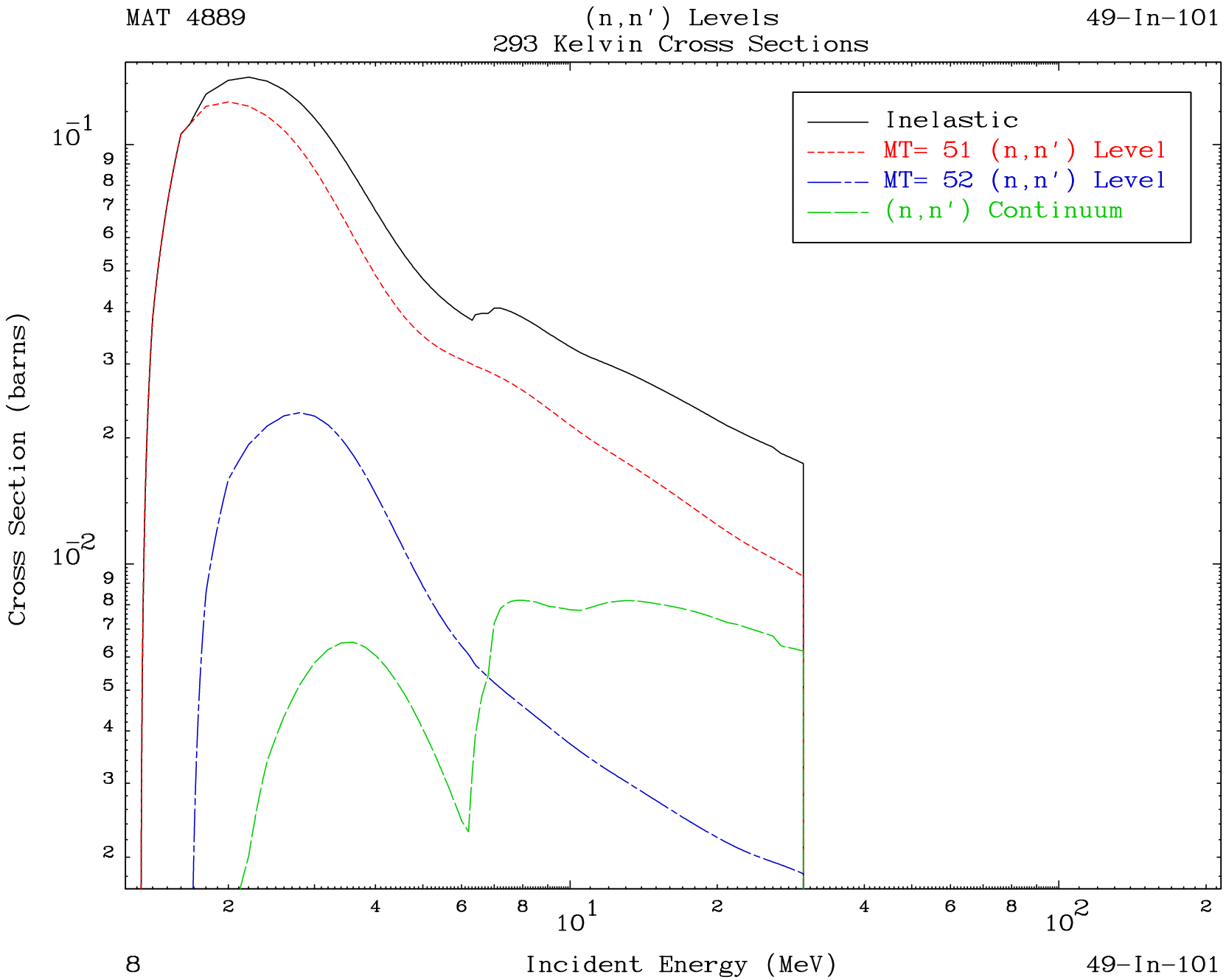

MAT 4889
Neutron Absorption
293 Kelvin Cross Sections
49-In-101
Cross Section (barns)
Incident Energy (MeV)
(n,3n) p
(n,2n) p
(n,n') p α
(n,γ)
(n,p)
(n,d)
(n,t)
(n,He-3)
(n,α)
3
49-In-101

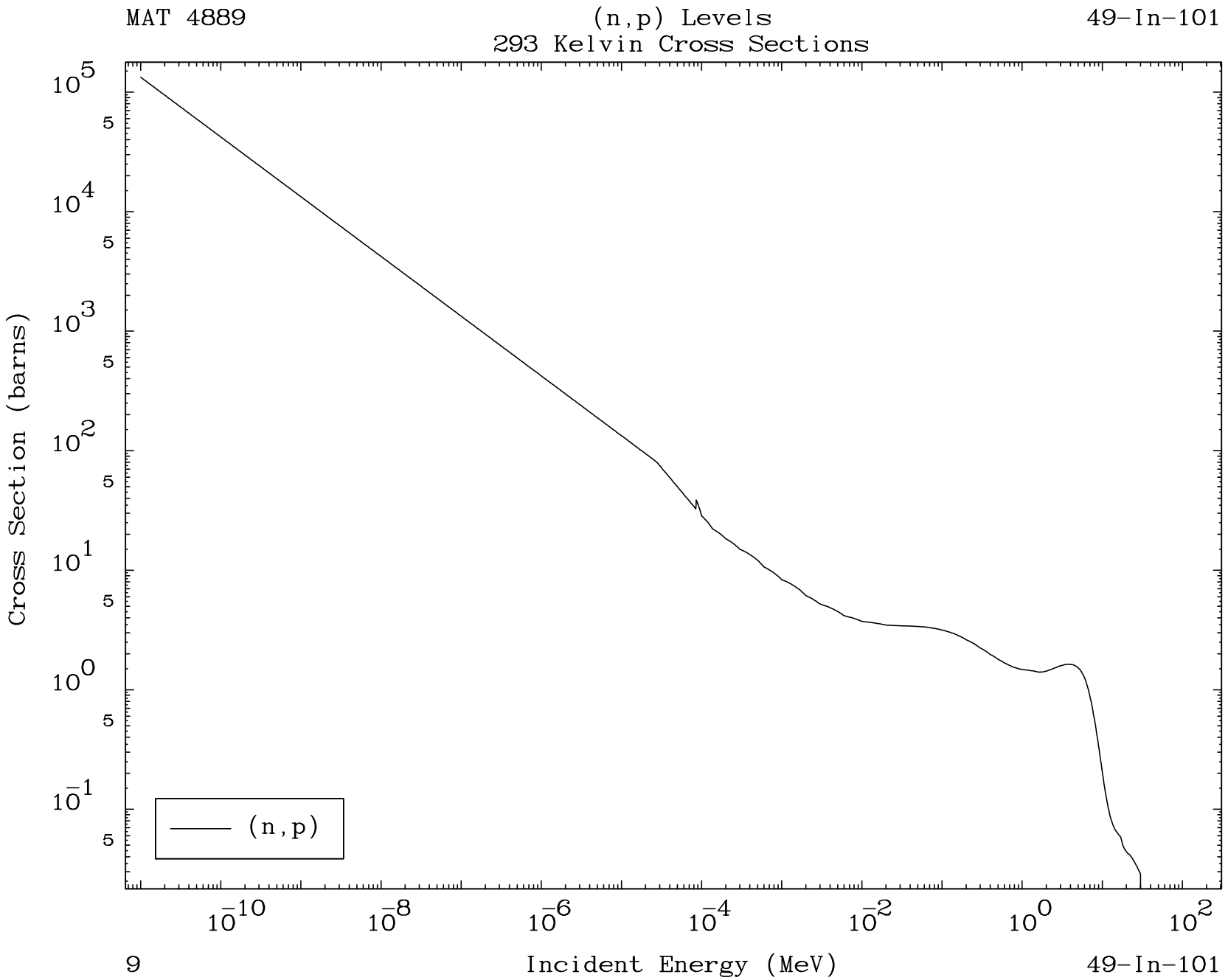

MAT 4889
Neutron Absorption
293 Kelvin Cross Sections
49-In-101
Cross Section (barns)
Incident Energy (MeV)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production
4
49-In-101

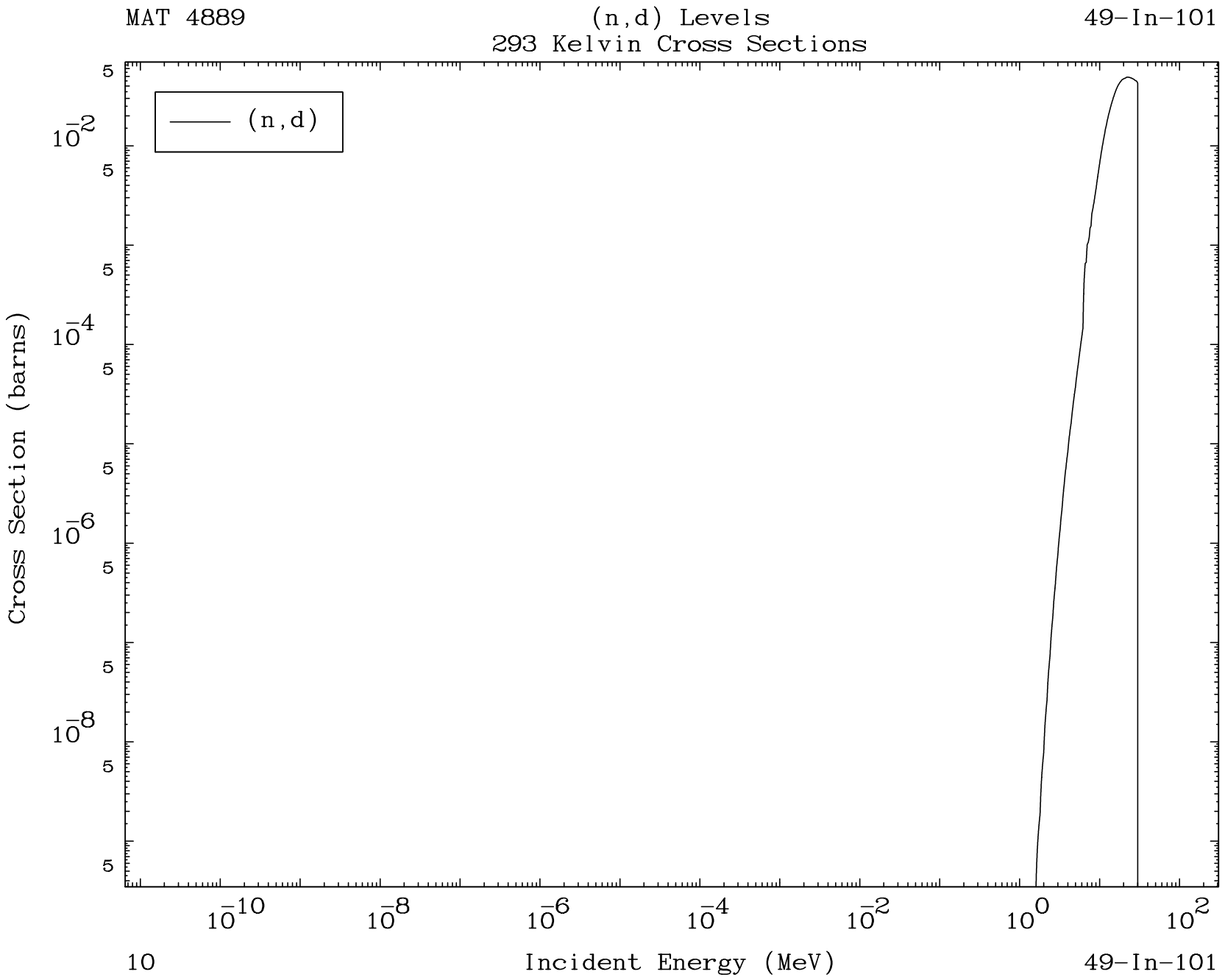

MAT 4889
Charged Particle
293 Kelvin Cross Sections
49-In-101
Cross Section (barns)
Incident Energy (MeV)
(n,n') α
(n,n') p
(n,n') d
(n,n') He-3
(n,2n) p
(n,p)
(n,d)
5
49-In-101

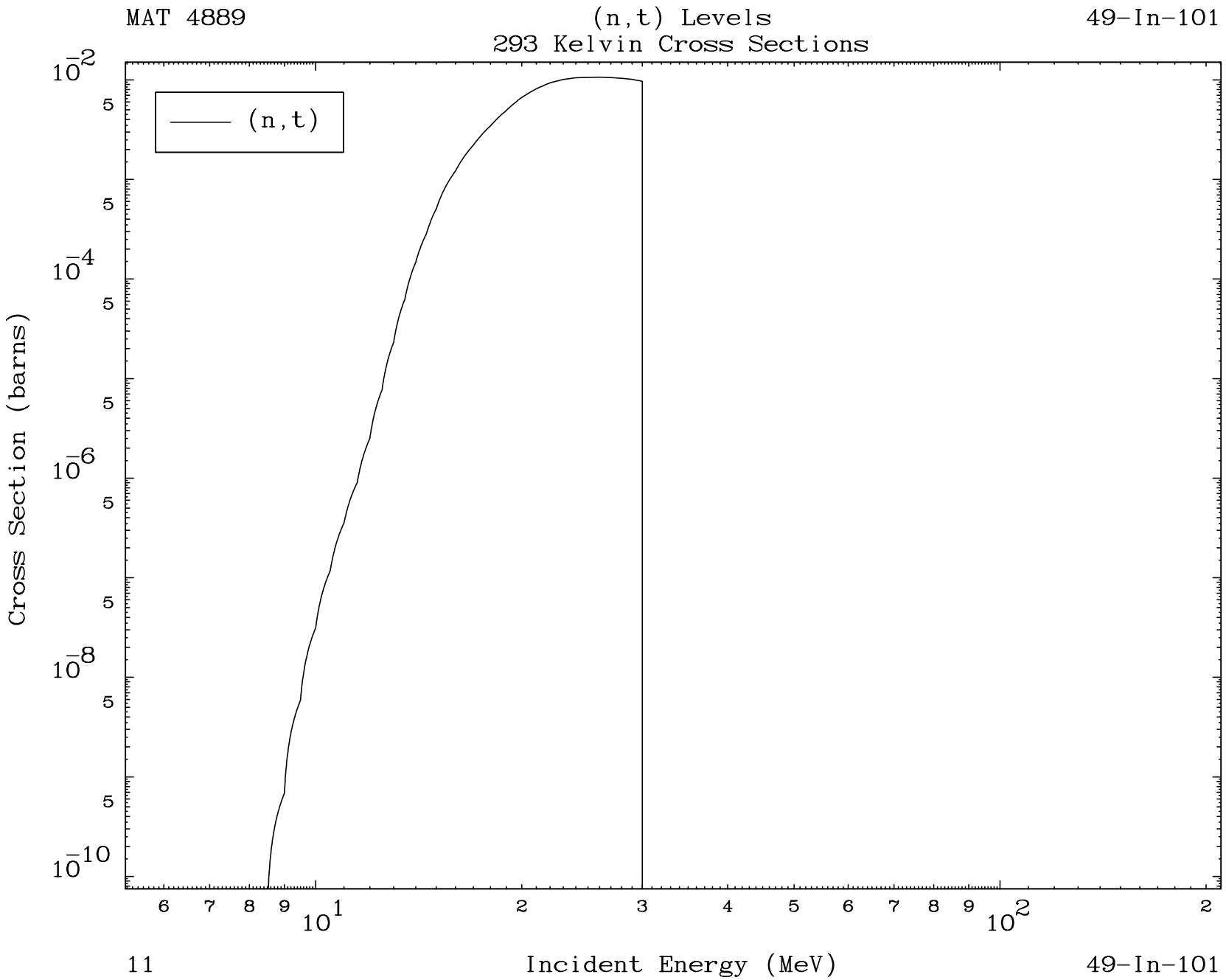

MAT 4889
Charged Particle
293 Kelvin Cross Sections
49-In-101
Cross Section (barns)
Incident Energy (MeV)
(n,n') α
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
6
49-In-101

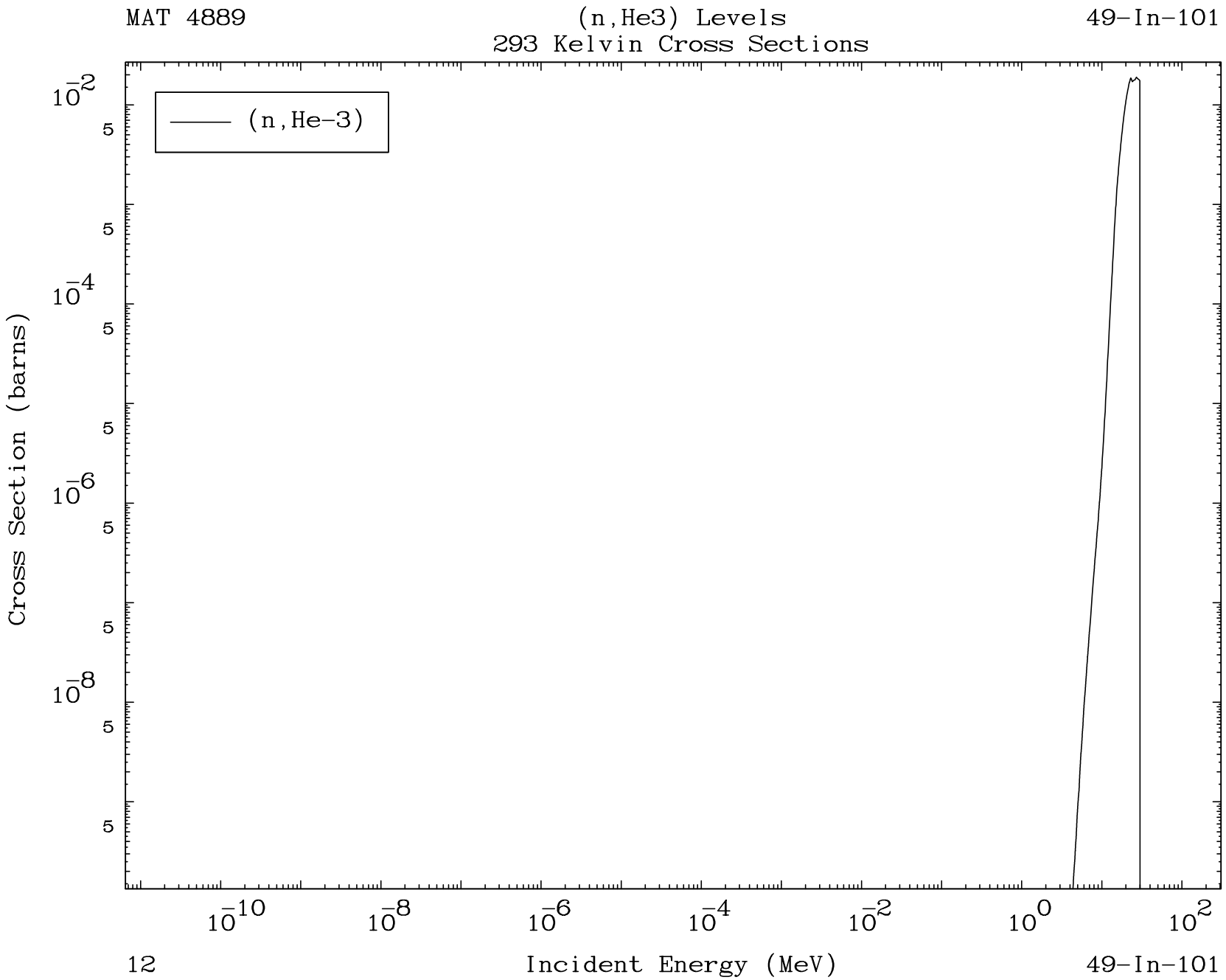

MAT 4889
Particle Production
293 Kelvin Cross Sections
49-In-101
Cross Section (barns)
Incident Energy (MeV)
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production
7
49-In-101

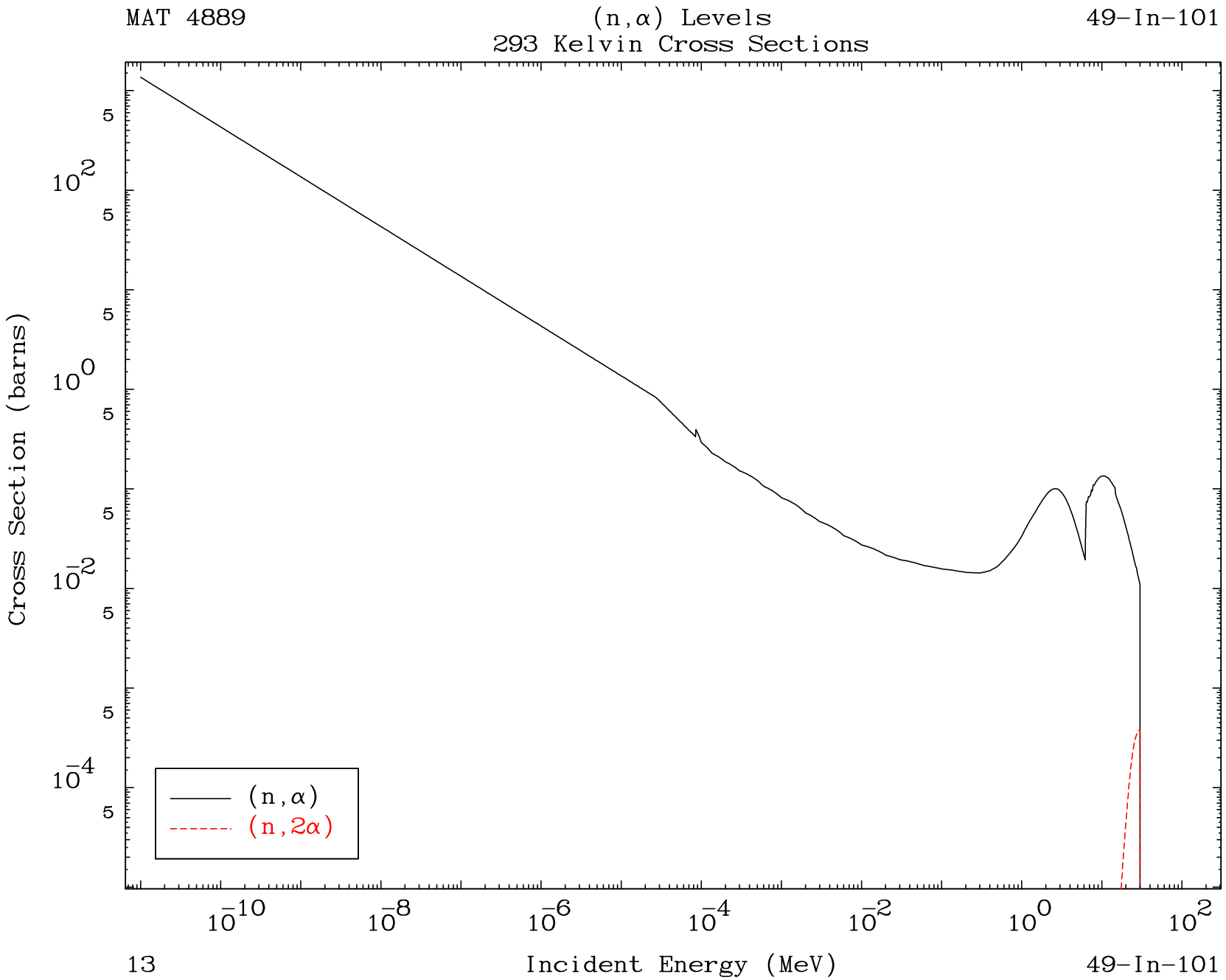

MAT 4889
(n,n') Levels
293 Kelvin Cross Sections
49-In-101
Inelastic
MT= 51 (n,n') Level
MT= 52 (n,n') Level
(n,n') Continuum
Cross Section (barns)
Incident Energy (MeV)
8
49-In-101

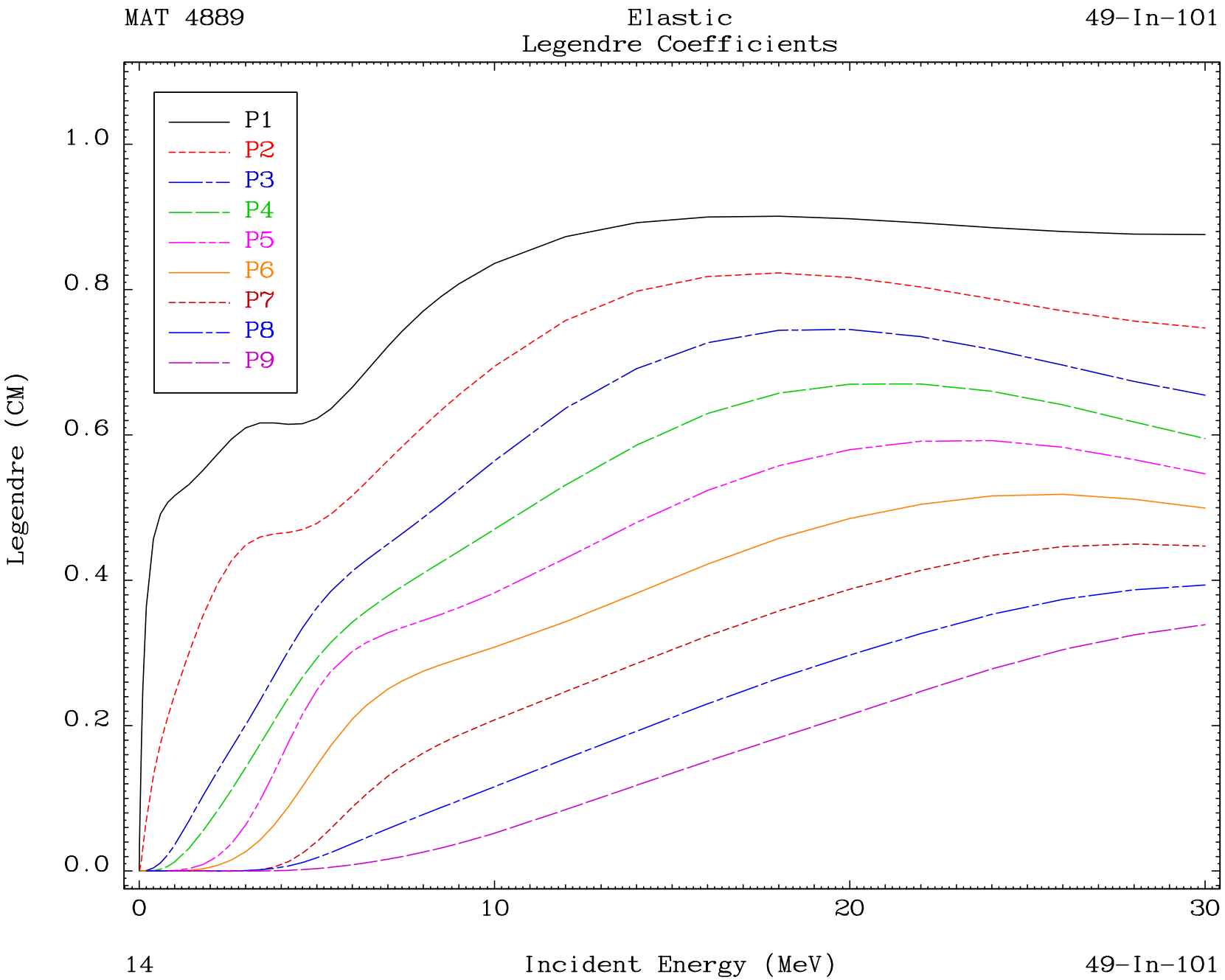

MAT 4889
(n,p) Levels
49-In-101
293 Kelvin Cross Sections
Cross Section (barns)
10^5
10^4
10^3
10^2
10^1
10^0
10^-1
(n,p)
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
Incident Energy (MeV)
9
49-In-101

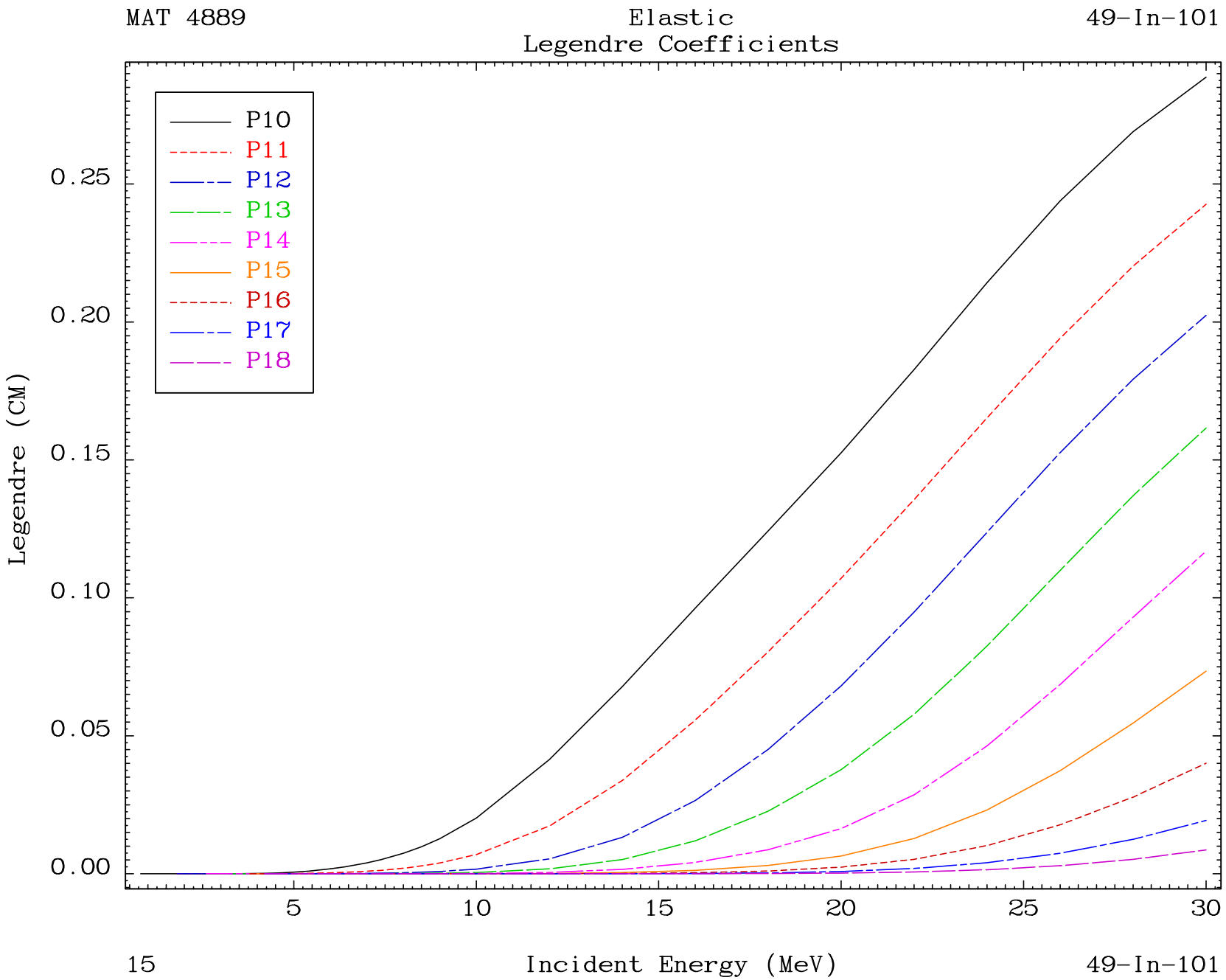

MAT 4889
(n,d) Levels
49-In-101
293 Kelvin Cross Sections
(n,d)
Cross Section (barns)
Incident Energy (MeV)
10
49-In-101

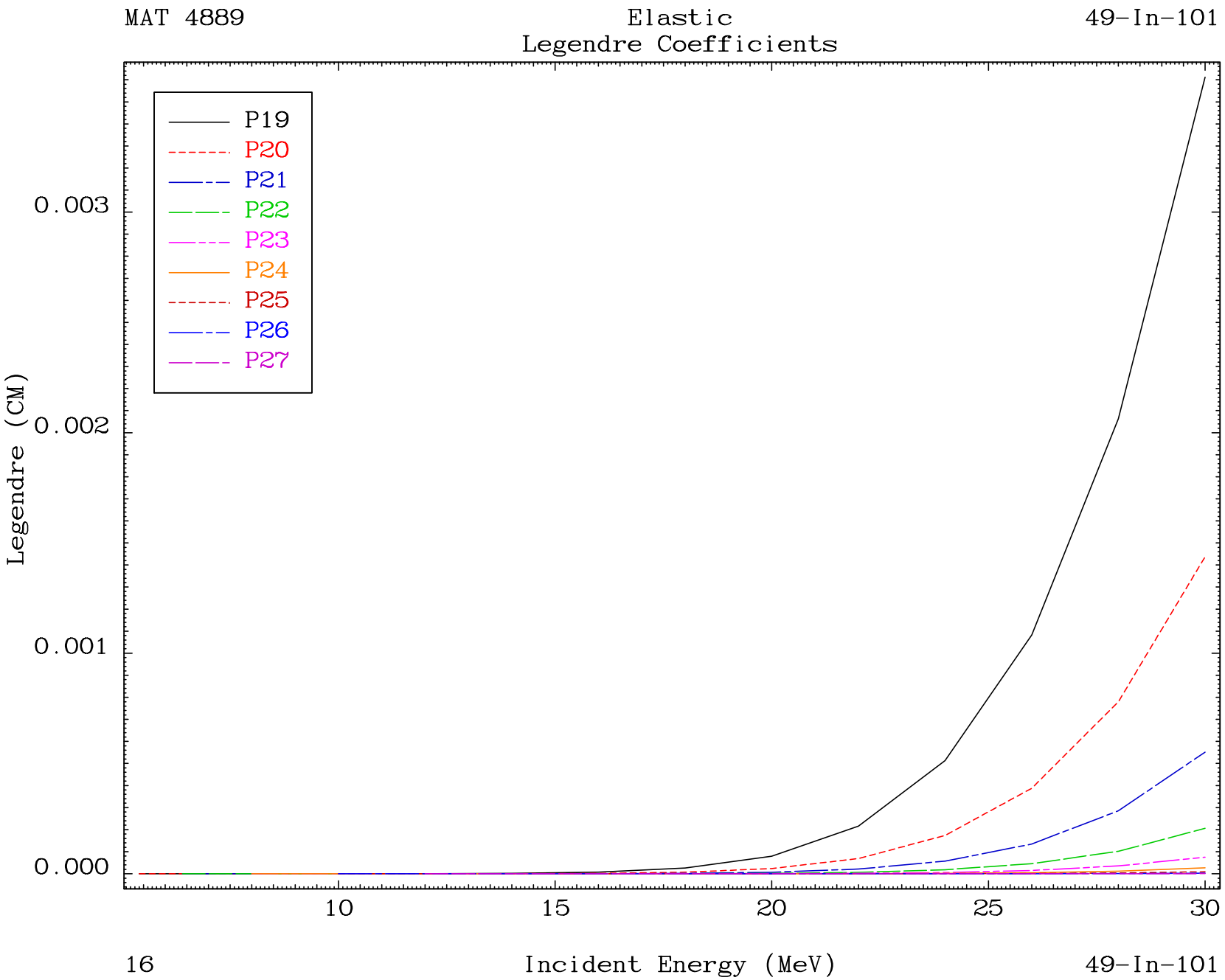

MAT 4889
(n,t) Levels
49-In-101
293 Kelvin Cross Sections
(n,t)
Cross Section (barns)
Incident Energy (MeV)
11
49-In-101

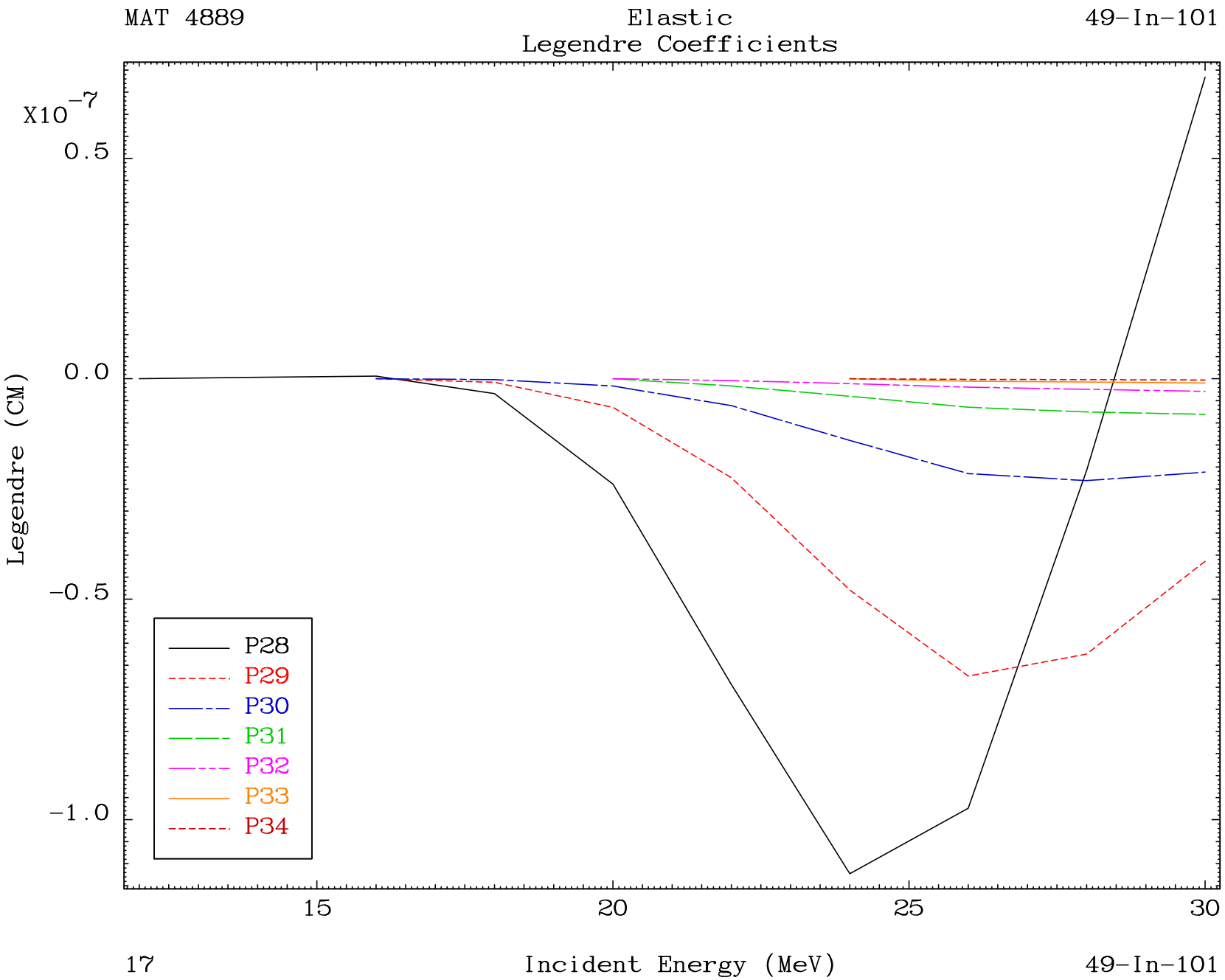

MAT 4889
(n,He3) Levels
293 Kelvin Cross Sections
49-In-101
(n,He-3)
Cross Section (barns)
Incident Energy (MeV)
12
49-In-101

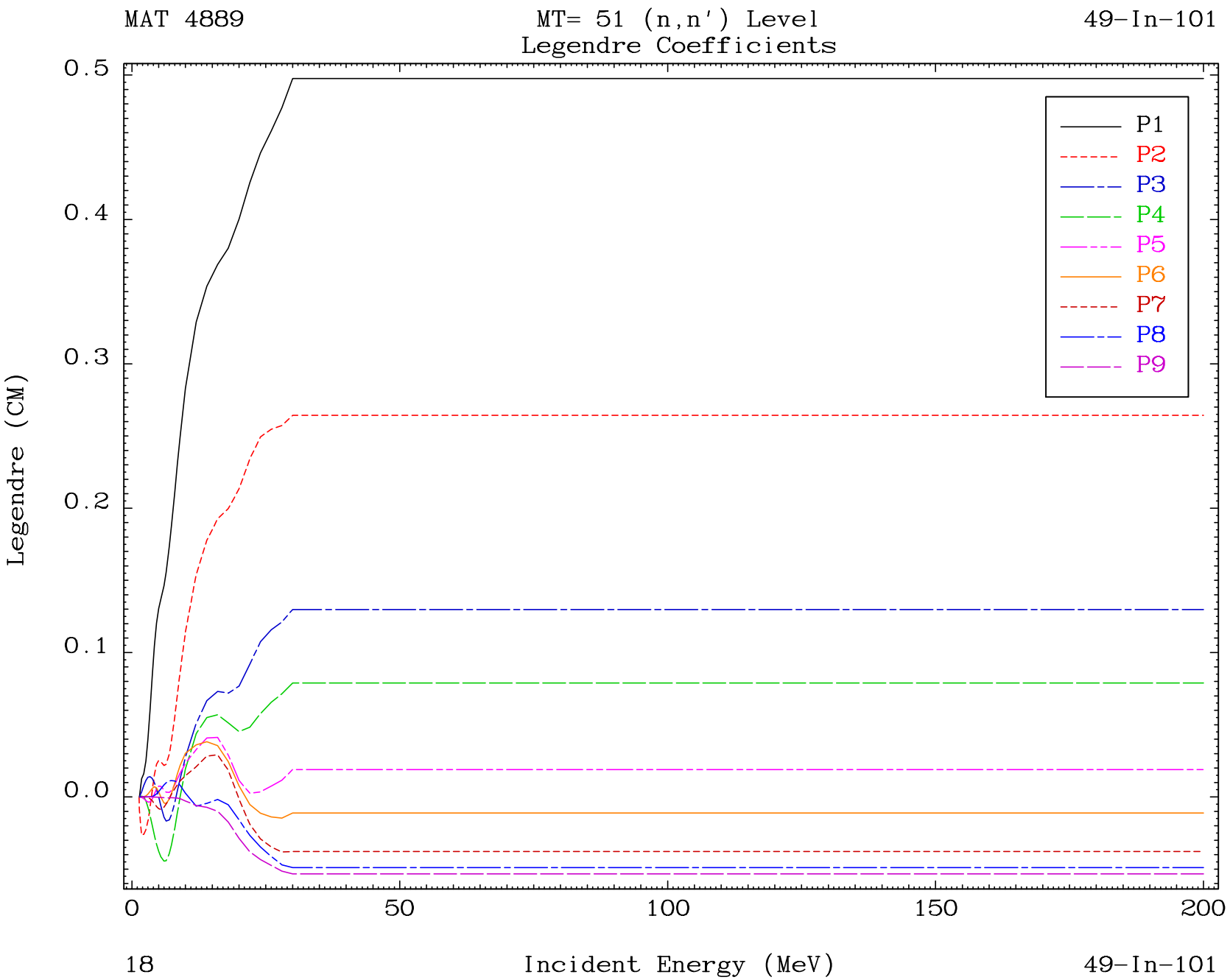

MAT 4889
(n,α) Levels
49-In-101
293 Kelvin Cross Sections
Cross Section (barns)
10^2
10^0
10^-2
10^-4
(n,α)
(n,2α)
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
13
Incident Energy (MeV)
49-In-101

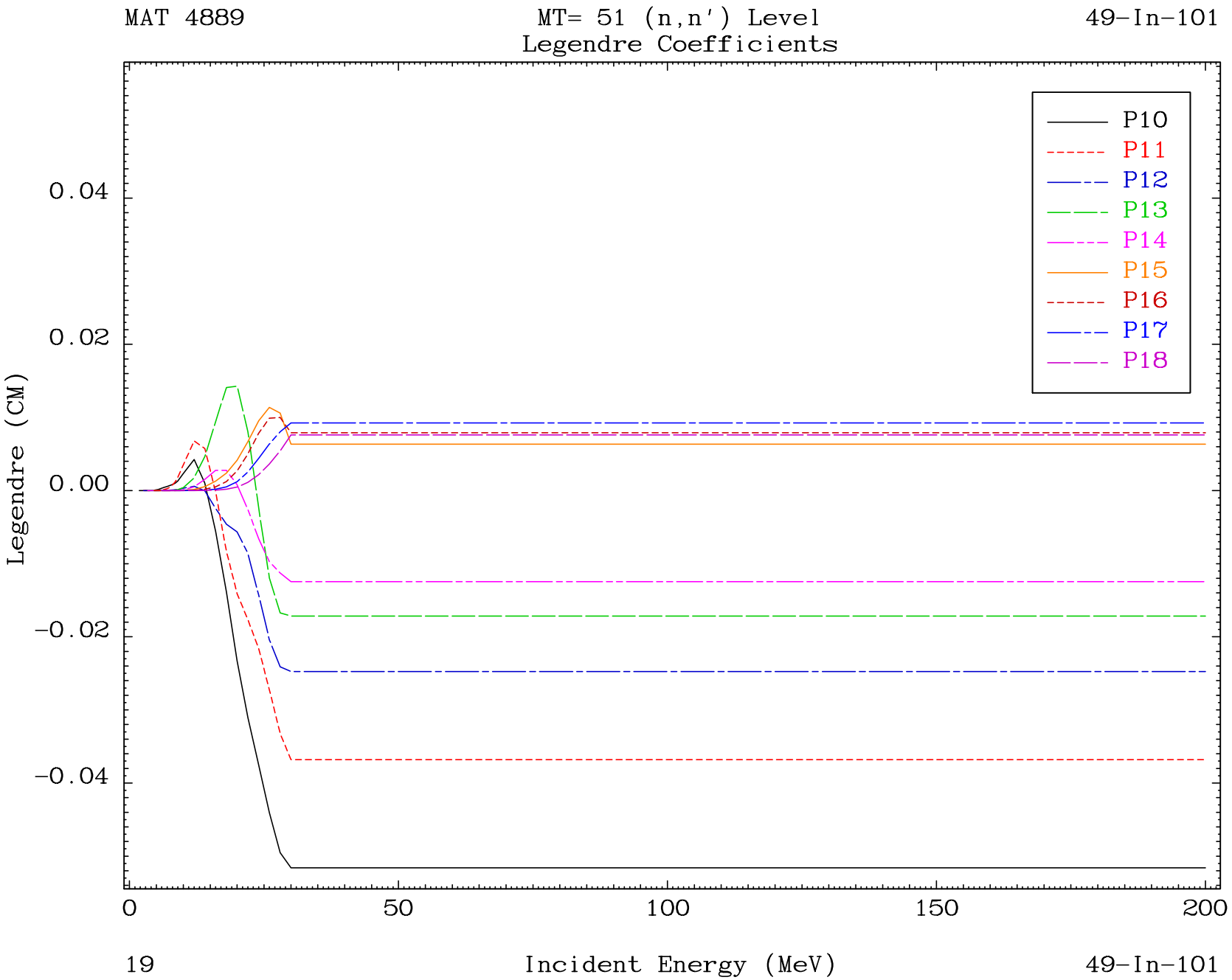

MAT 4889
Elastic
Legendre Coefficients
49-In-101
P1
P2
P3
P4
P5
P6
P7
P8
P9
Legendre (CM)
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
14
Incident Energy (MeV)
49-In-101

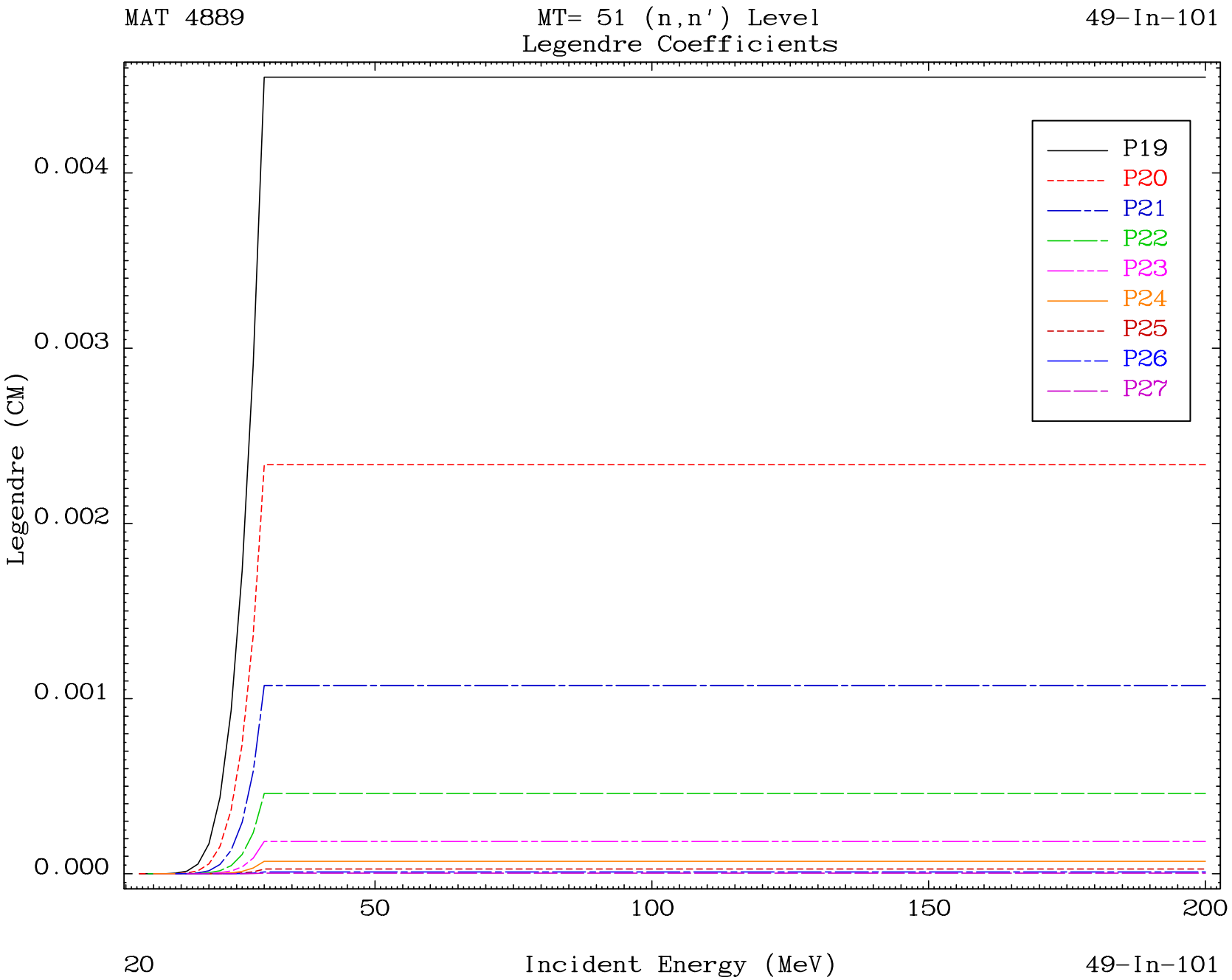

MAT 4889
Elastic
Legendre Coefficients
49-In-101
P10
P11
P12
P13
P14
P15
P16
P17
P18
Legendre (CM)
0.25
0.20
0.15
0.10
0.05
0.00
5
10
15
20
25
30
15
Incident Energy (MeV)
49-In-101

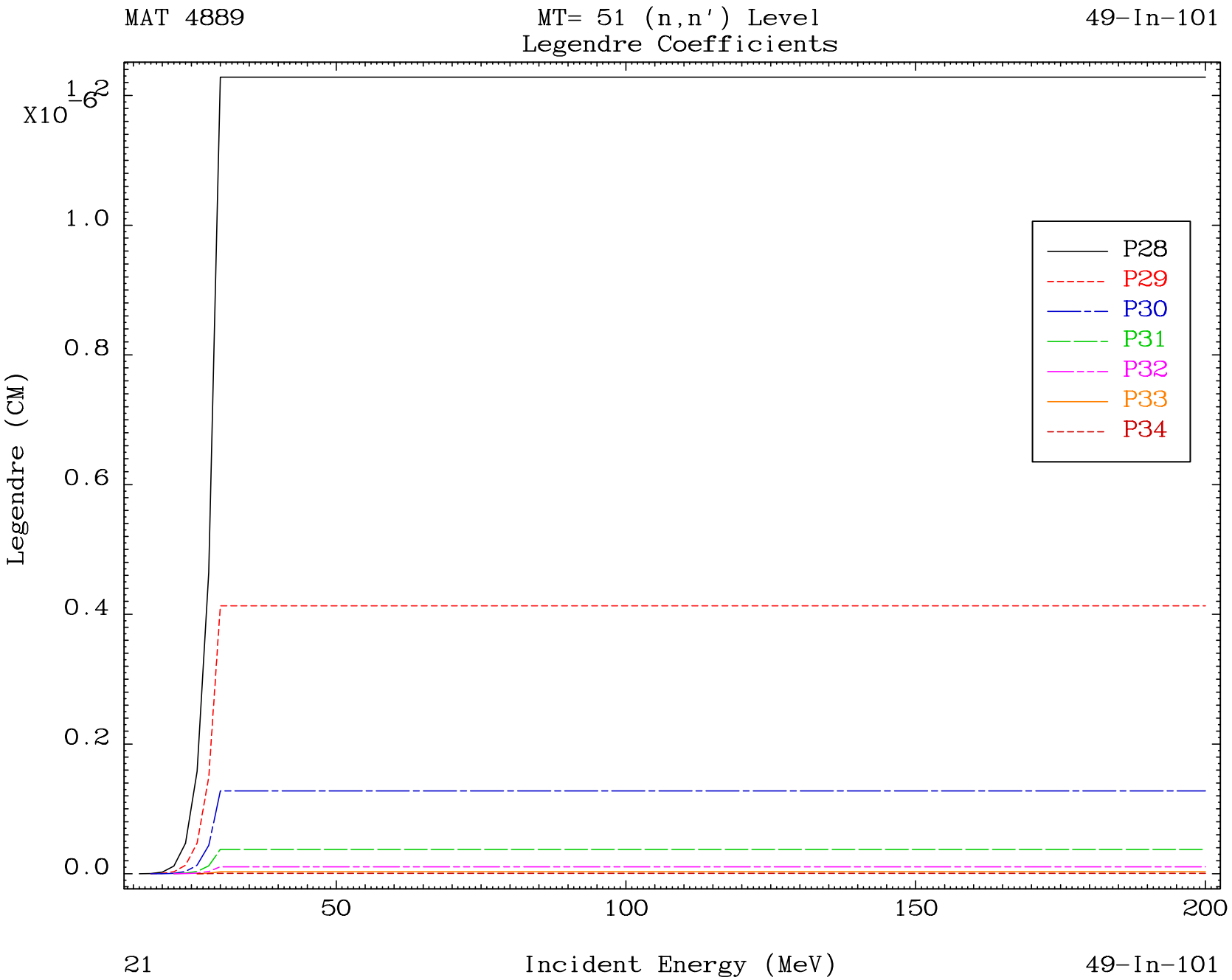

MAT 4889
Elastic
Legendre Coefficients
49-In-101
P19
P20
P21
P22
P23
P24
P25
P26
P27
0.003
0.002
0.001
0.000
Legendre (CM)
10
15
20
25
30
16
Incident Energy (MeV)
49-In-101

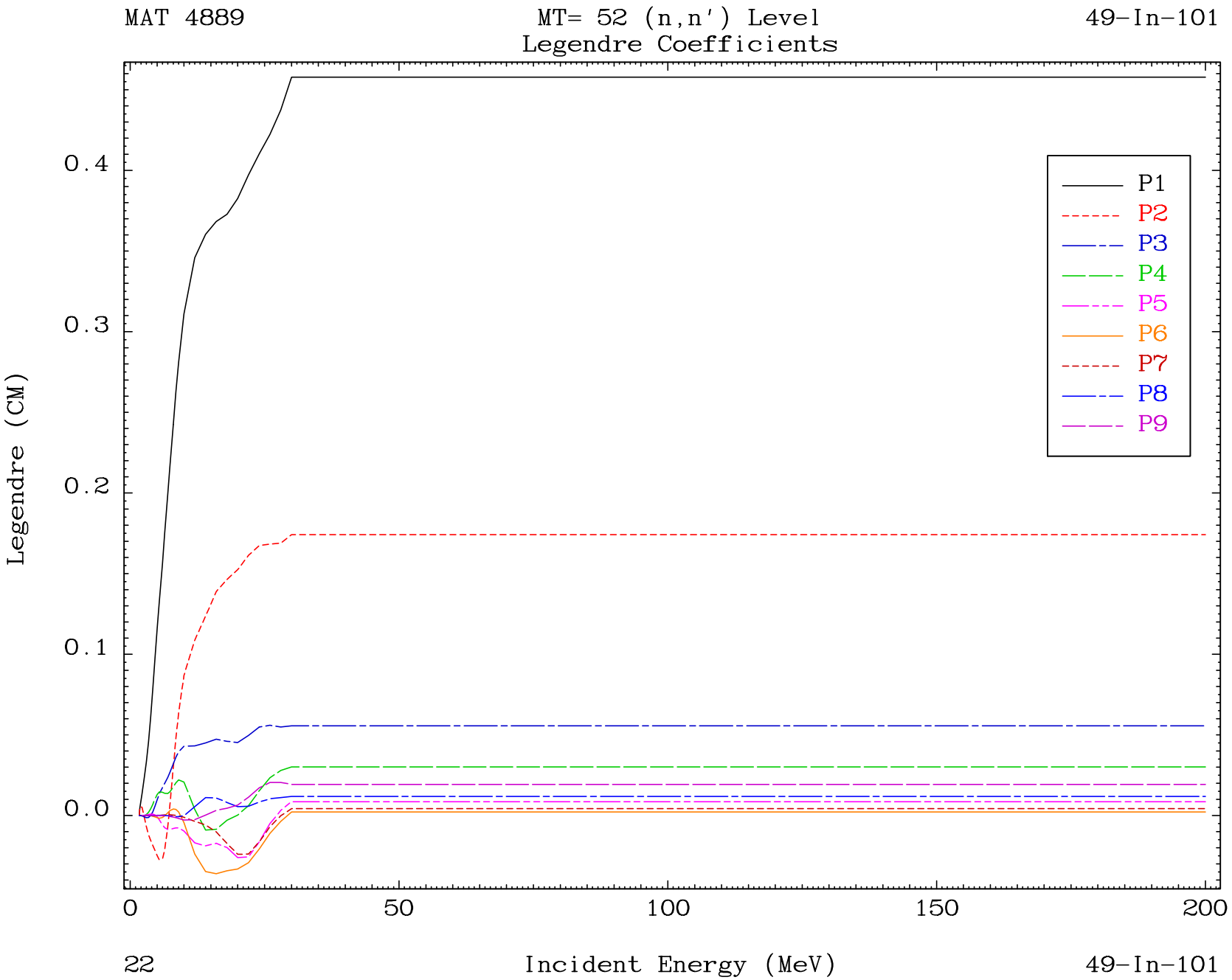

MAT 4889
Elastic
Legendre Coefficients
49-In-101
X10^-7
0.5
0.0
-0.5
-1.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
15
20
25
30
17
Incident Energy (MeV)
49-In-101

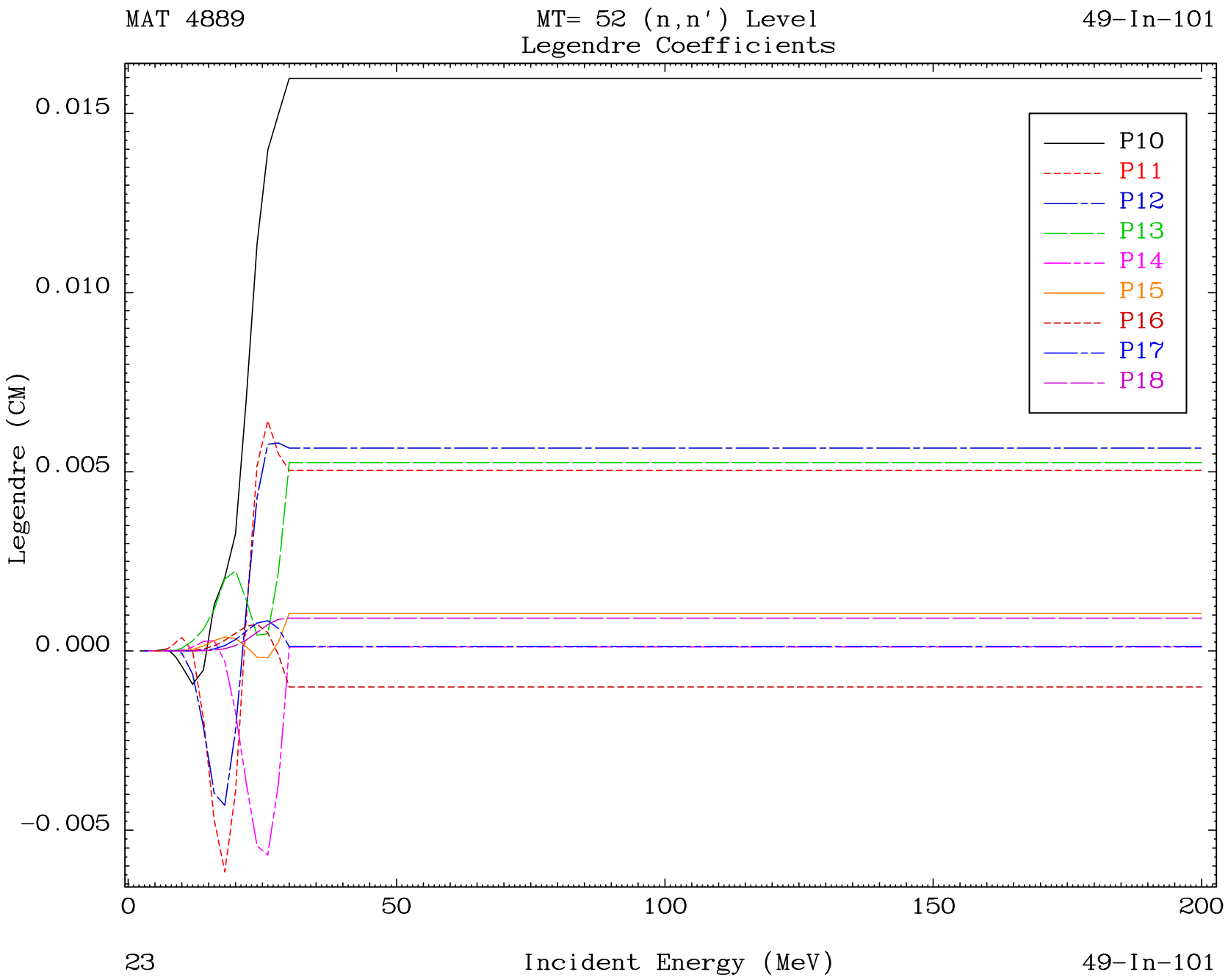

MAT 4889
MT= 51 (n,n') Level
Legendre Coefficients
49-In-101
Legendre (CM)
0.5
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
Incident Energy (MeV)
18
49-In-101
P1
P2
P3
P4
P5
P6
P7
P8
P9

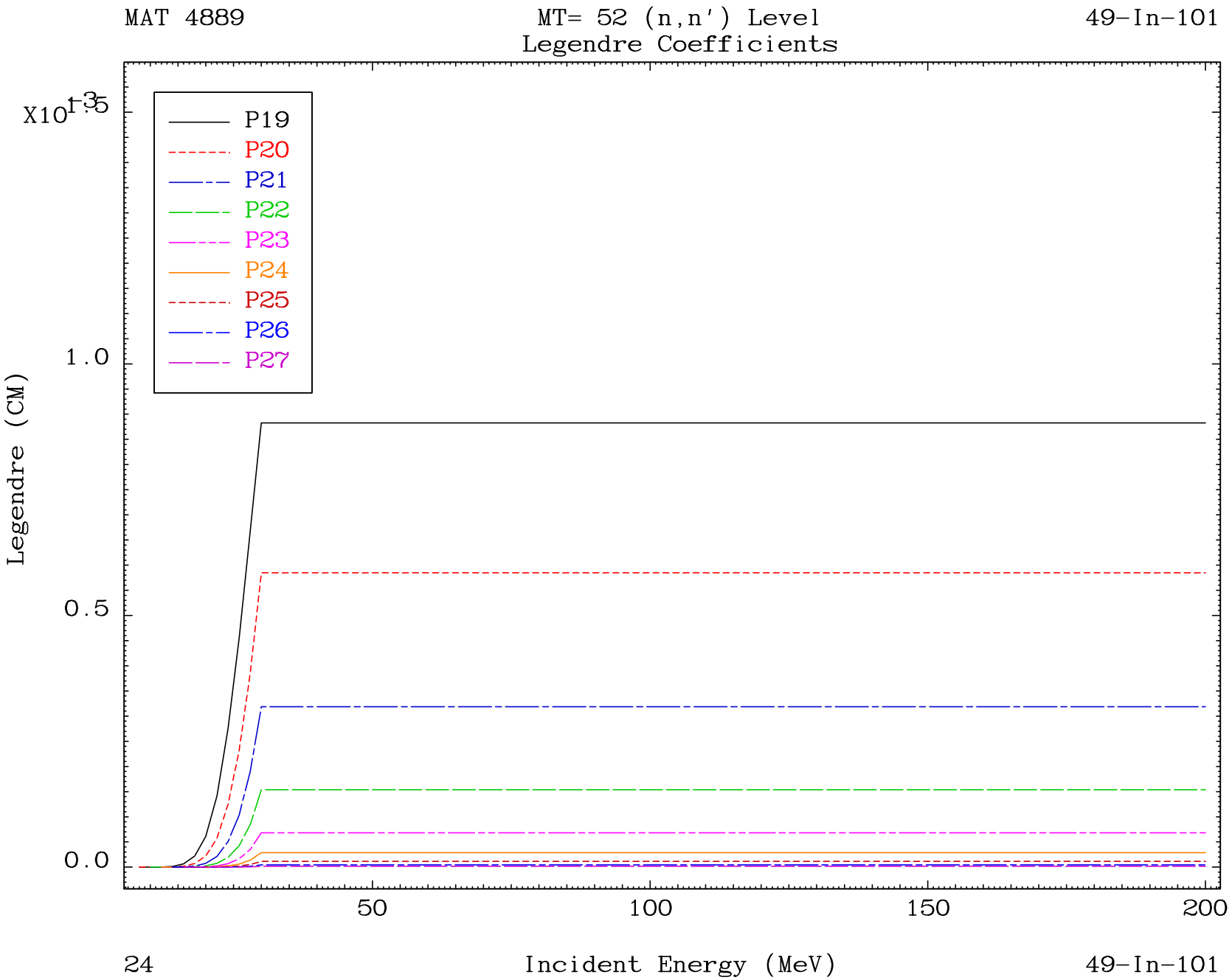

MAT 4889
MT= 51 (n,n') Level
Legendre Coefficients
49-In-101
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.04
0.02
0.00
-0.02
-0.04
Legendre (CM)
0
50
100
150
200
19
Incident Energy (MeV)
49-In-101

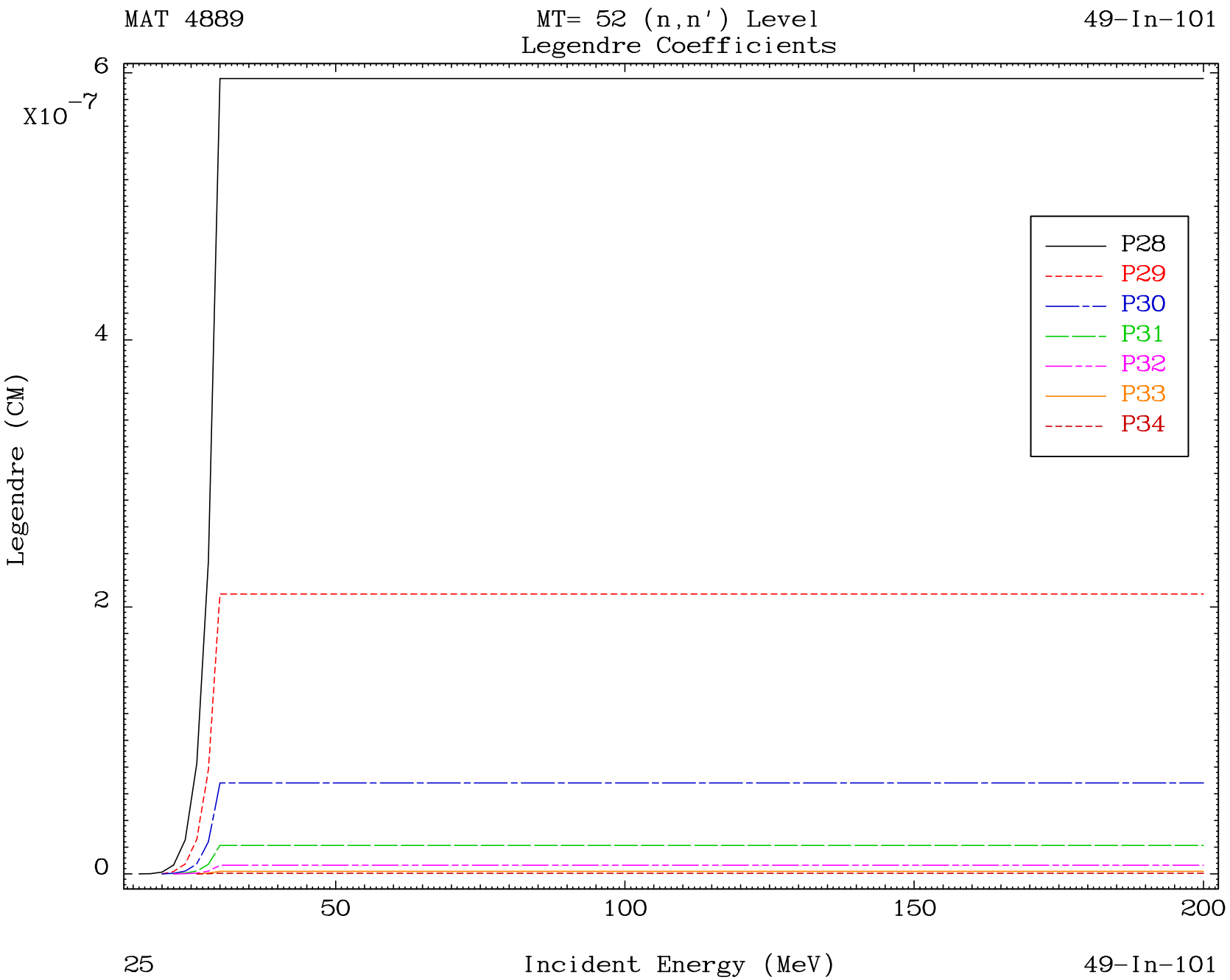

MAT 4889
MT= 51 (n,n') Level
Legendre Coefficients
49-In-101
0.004
0.003
0.002
0.001
0.000
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
20
Incident Energy (MeV)
49-In-101

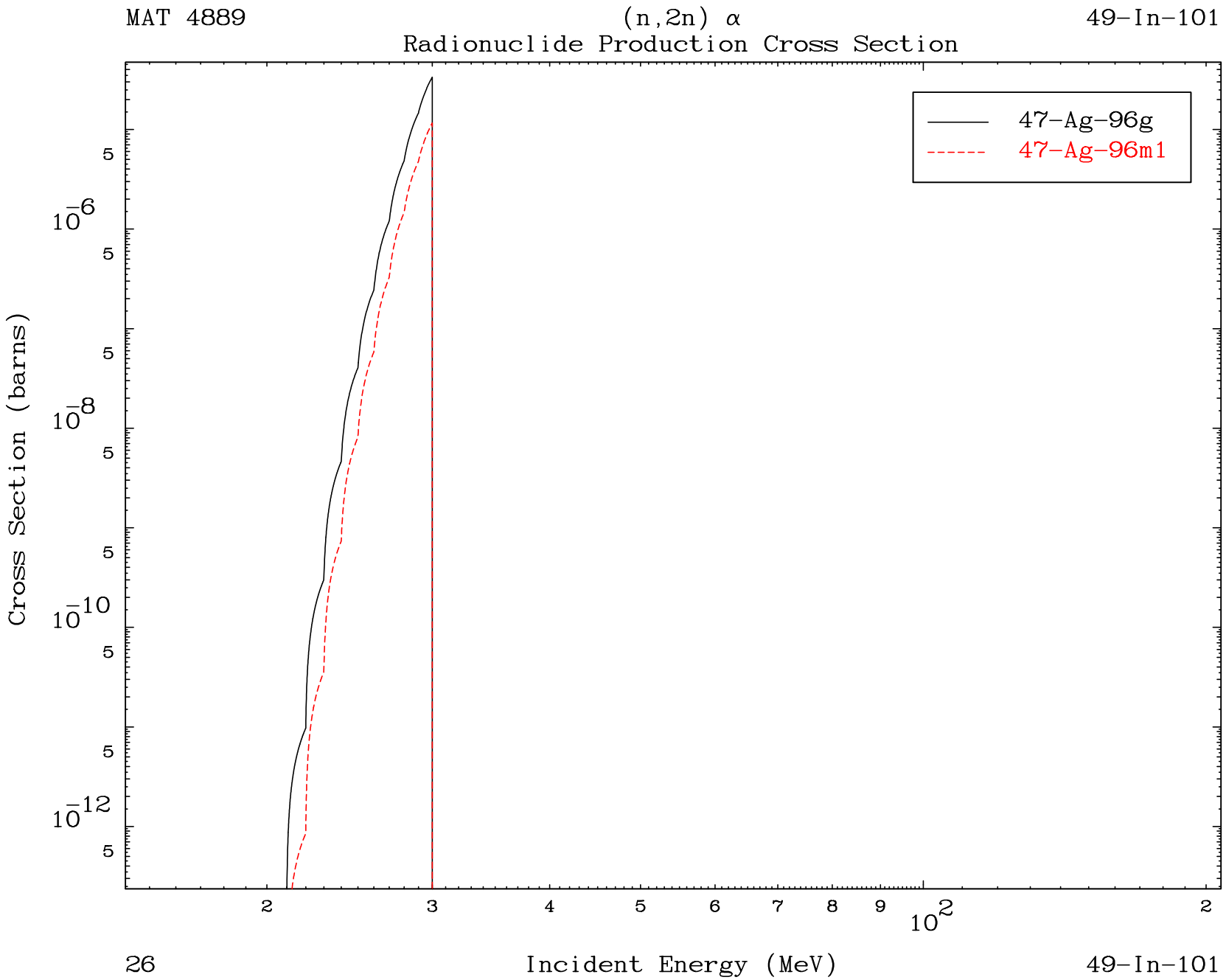

MAT 4889
MT= 51 (n,n') Level
Legendre Coefficients
49-In-101
X10-2
1
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
21
Incident Energy (MeV)
49-In-101

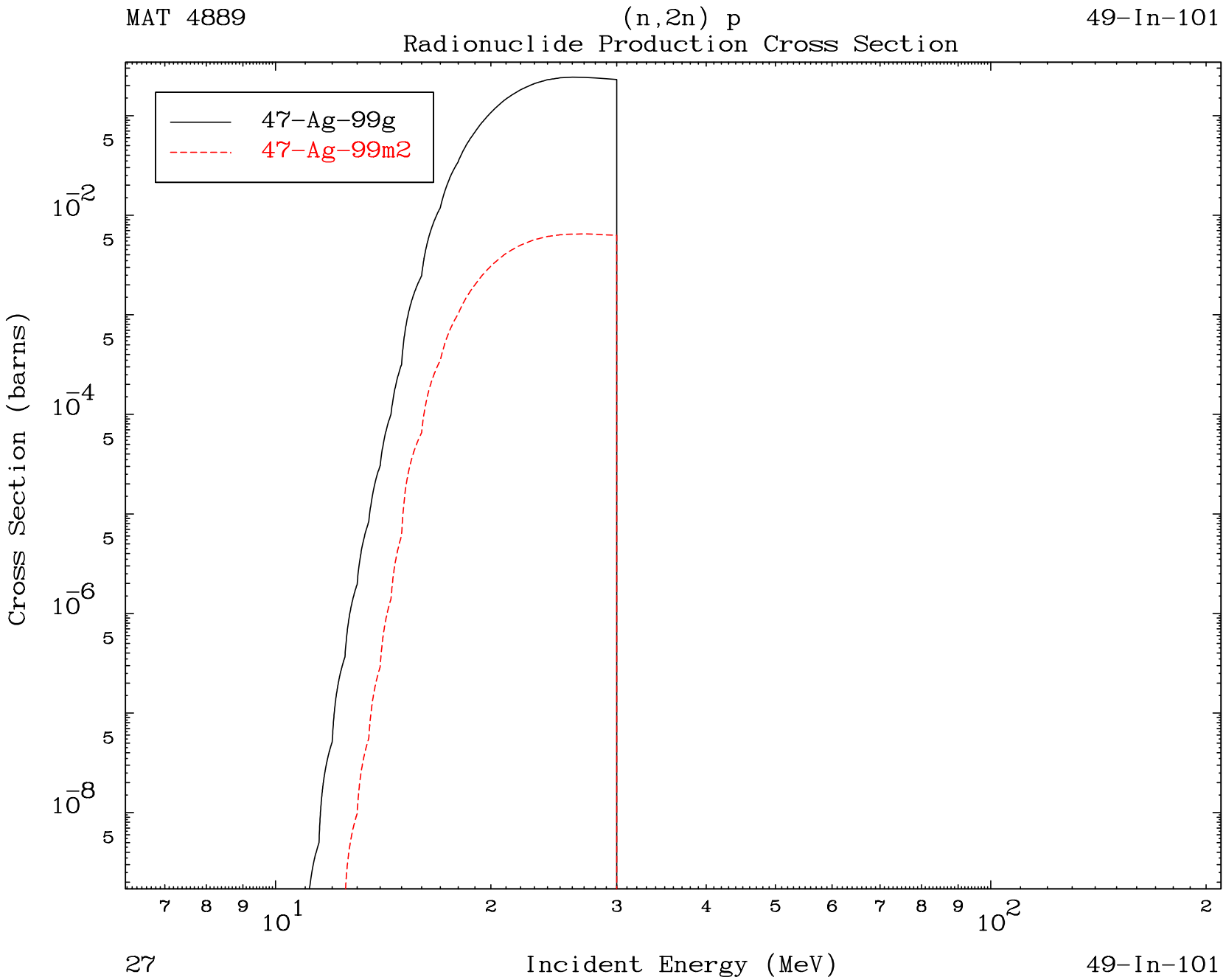

MAT 4889
MT= 52 (n,n') Level
Legendre Coefficients
49-In-101
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
22
Incident Energy (MeV)
49-In-101

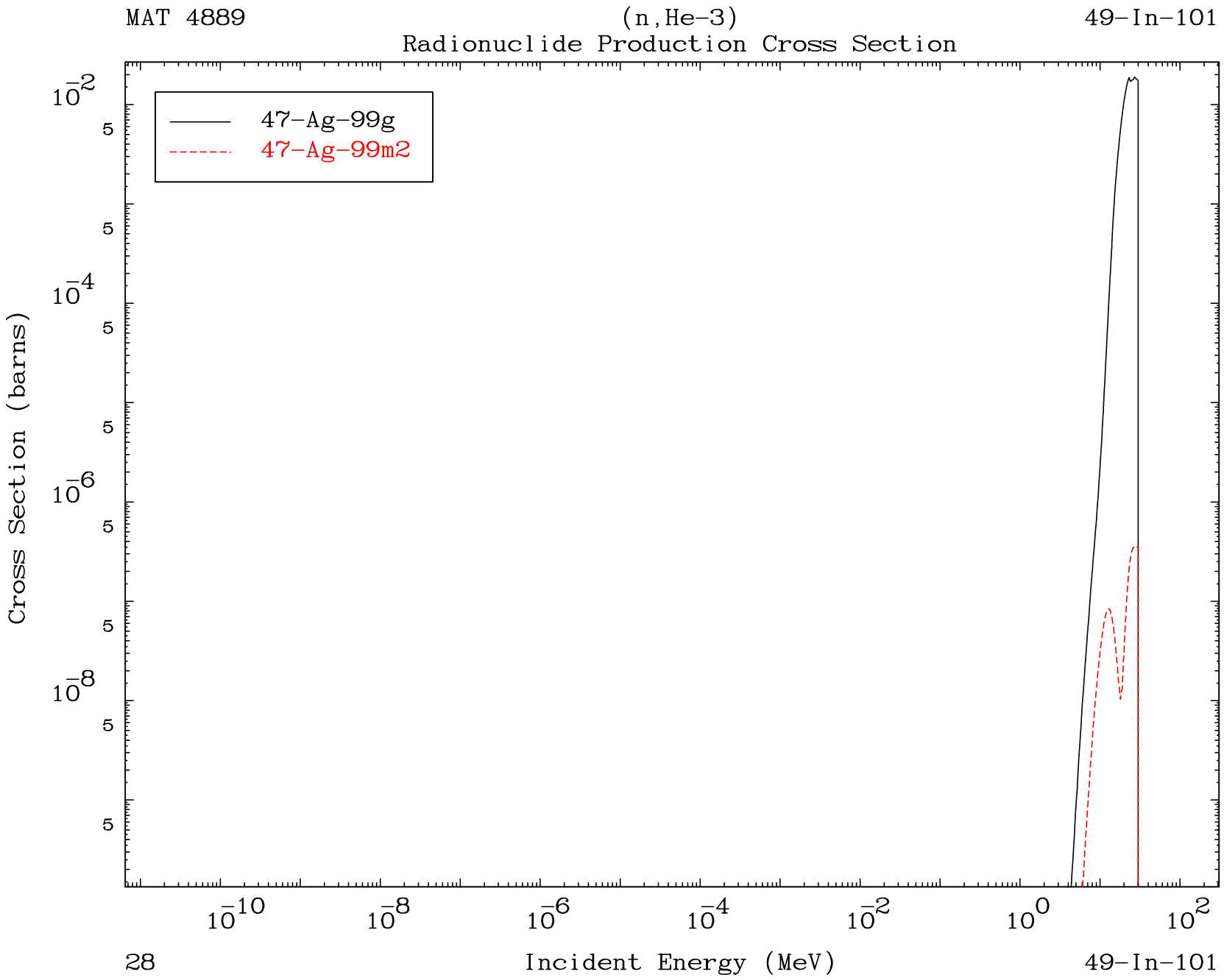

MAT 4889
MT= 52 (n,n') Level
Legendre Coefficients
49-In-101
0.015
0.010
0.005
0.000
-0.005
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
23
Incident Energy (MeV)
49-In-101

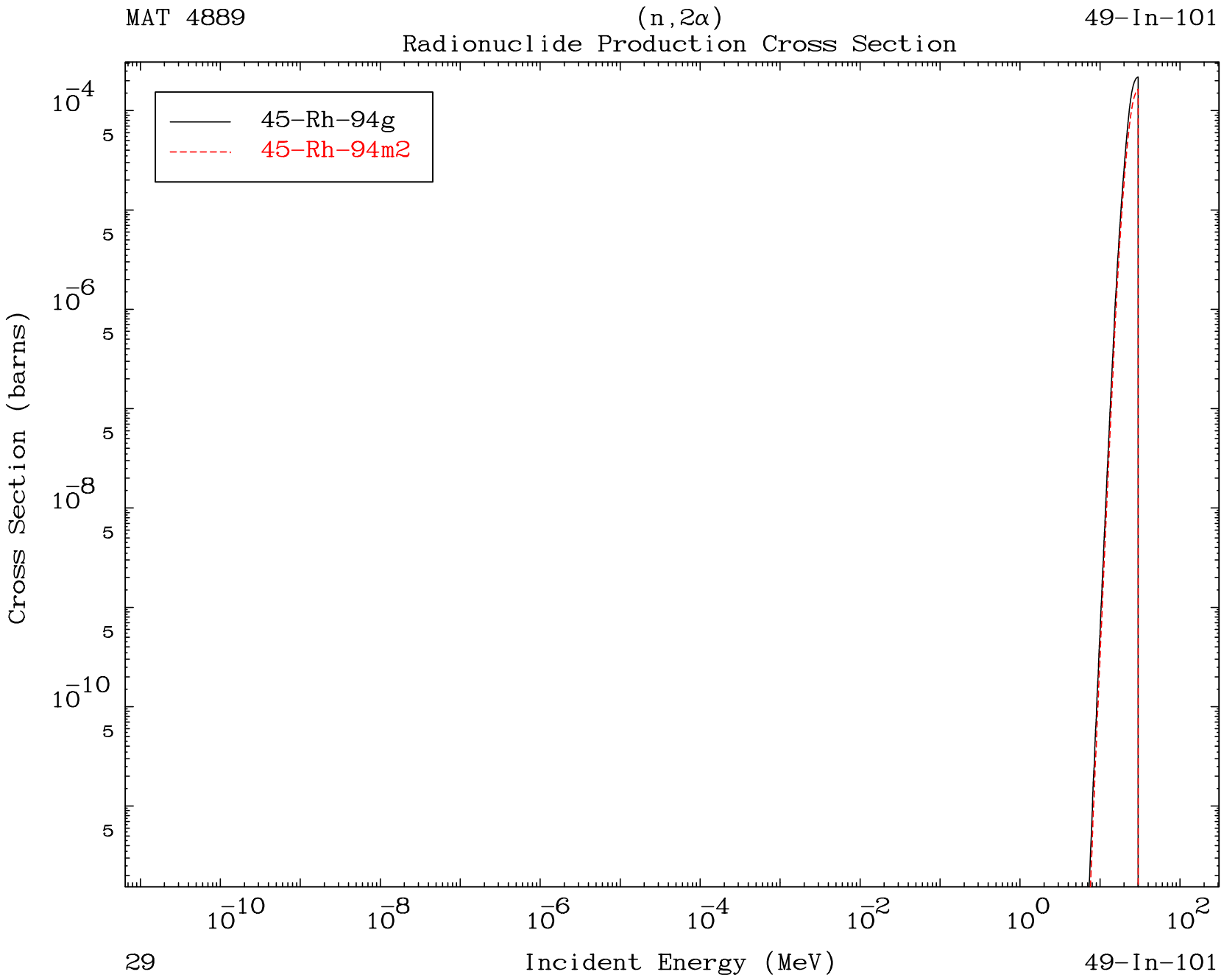

MAT 4889
MT= 52 (n,n') Level
Legendre Coefficients
49-In-101
X10-3
P19
P20
P21
P22
P23
P24
P25
P26
P27
1.5
1.0
0.5
0.0
Legendre (CM)
50
100
150
200
24
Incident Energy (MeV)
49-In-101

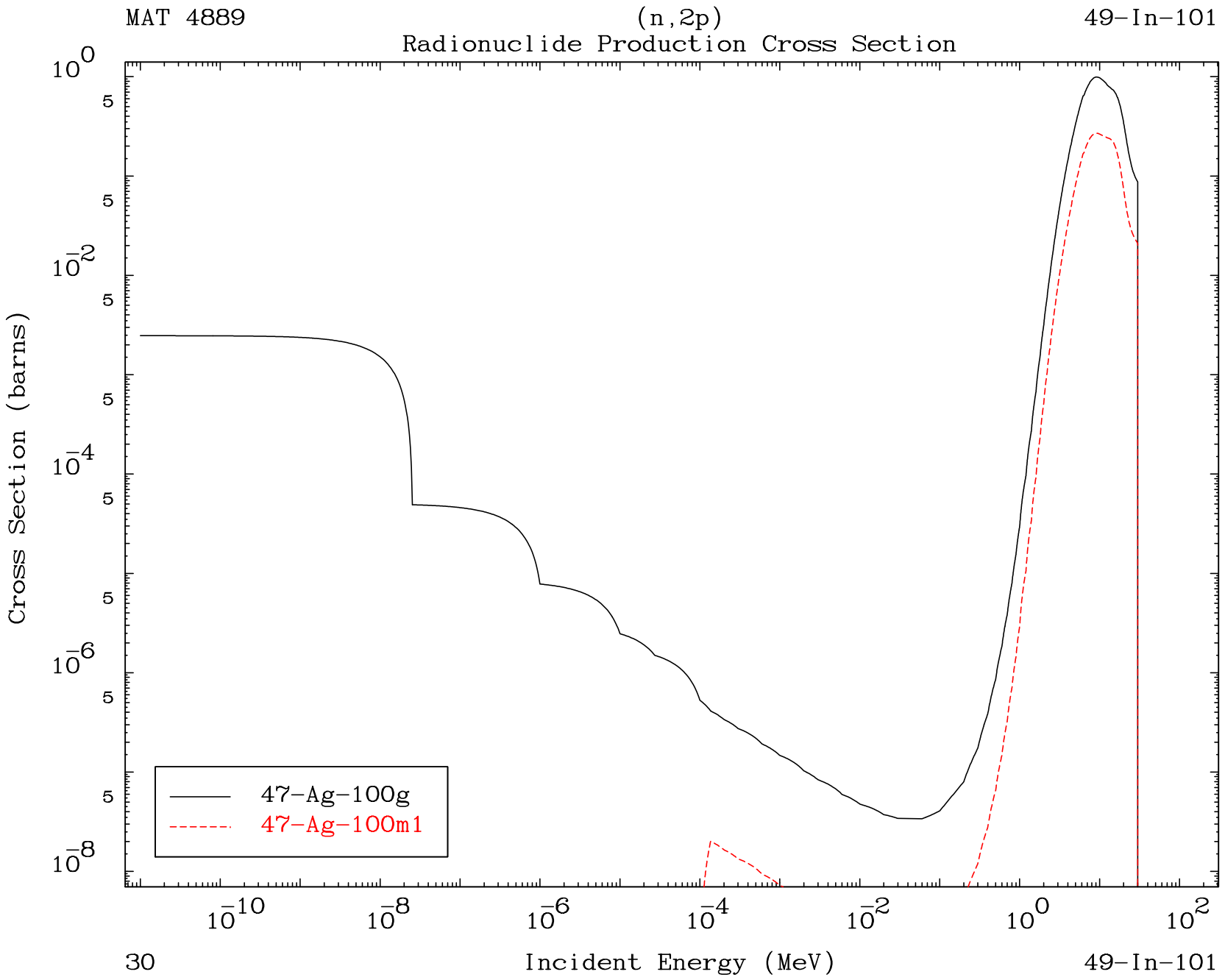

MAT 4889
MT= 52 (n,n') Level
Legendre Coefficients
49-In-101
X10^-7
6
4
2
0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
25
Incident Energy (MeV)
49-In-101

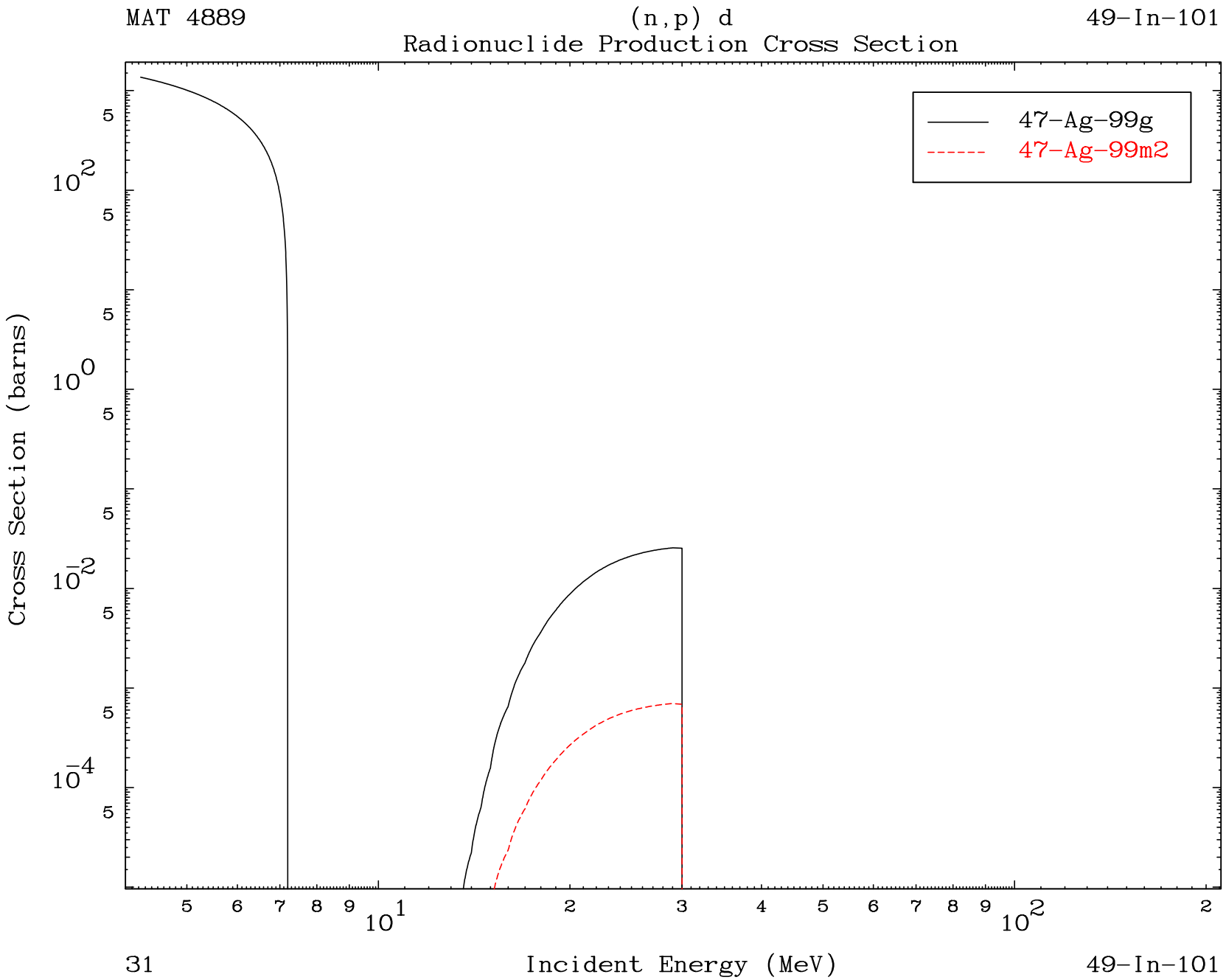

MAT 4889
(n,2n) α
49-In-101
Radionuclide Production Cross Section
47-Ag-96g
47-Ag-96m1
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
2
3
4
6
7
8
9
10^2
Incident Energy (MeV)
26
49-In-101


MAT 4889
(n,2n) p
49-In-101
Radionuclide Production Cross Section
47-Ag-99g
47-Ag-99m2
Cross Section (barns)
10-2
10-4
10-6
10-8
5
7 8 9
10 1
2 3 4 5 6 7 8 9
10 2
2
27
Incident Energy (MeV)
49-In-101


MAT 4889
(n,He-3)
49-In-101
Radionuclide Production Cross Section
47-Ag-99g
47-Ag-99m2
Cross Section (barns)
Incident Energy (MeV)
28
49-In-101


MAT 4889
(n,2α)
49-In-101
Radionuclide Production Cross Section
45-Rh-94g
45-Rh-94m2
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
29
Incident Energy (MeV)
49-In-101


MAT 4889
(n,2p)
49-In-101
Radionuclide Production Cross Section
Cross Section (barns)
Incident Energy (MeV)
47-Ag-100g
47-Ag-100m1
30
49-In-101


MAT 4889
(n,p) d
49-In-101
Radionuclide Production Cross Section
47-Ag-99g
47-Ag-99m2
Cross Section (barns)
Incident Energy (MeV)
31
49-In-101