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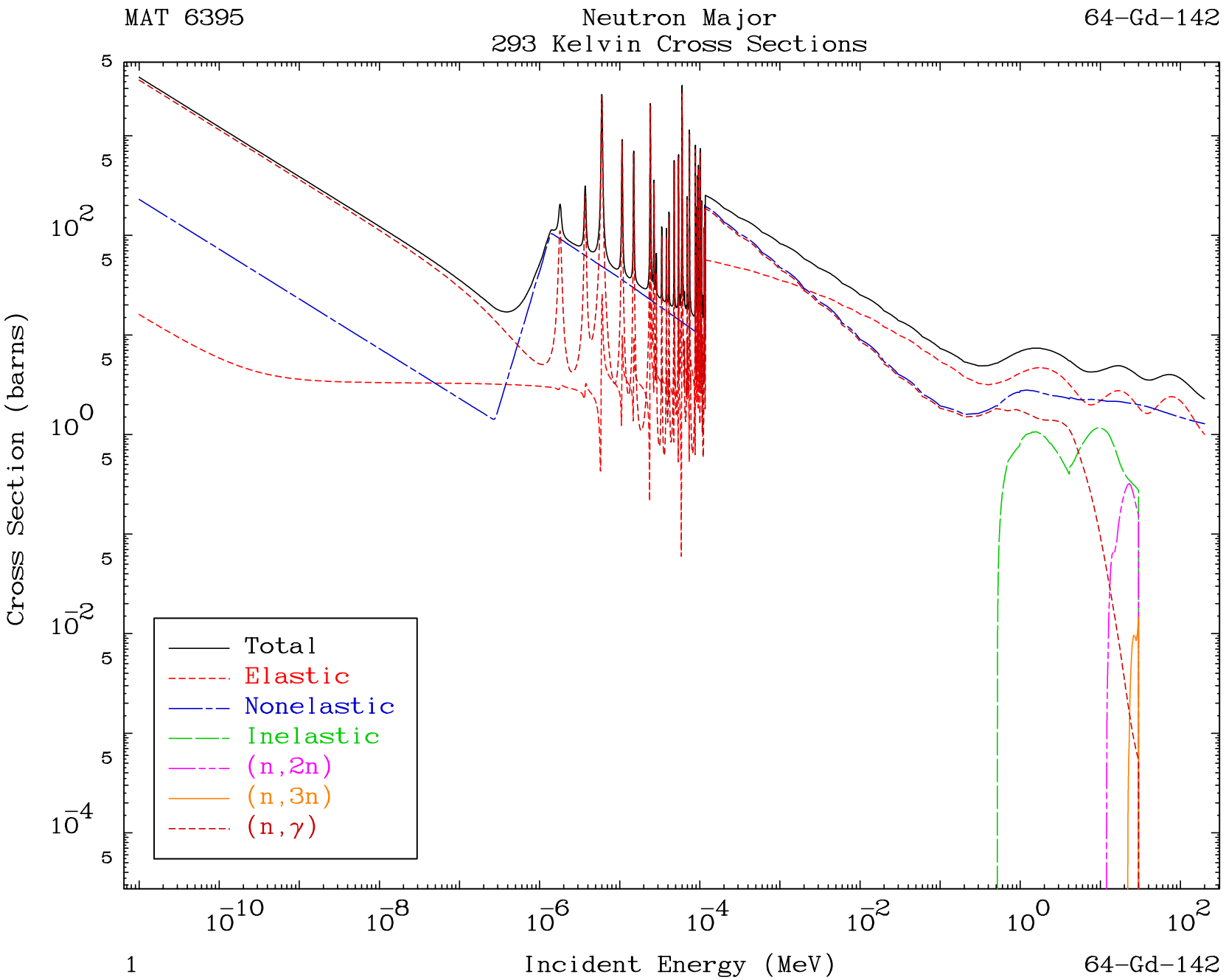
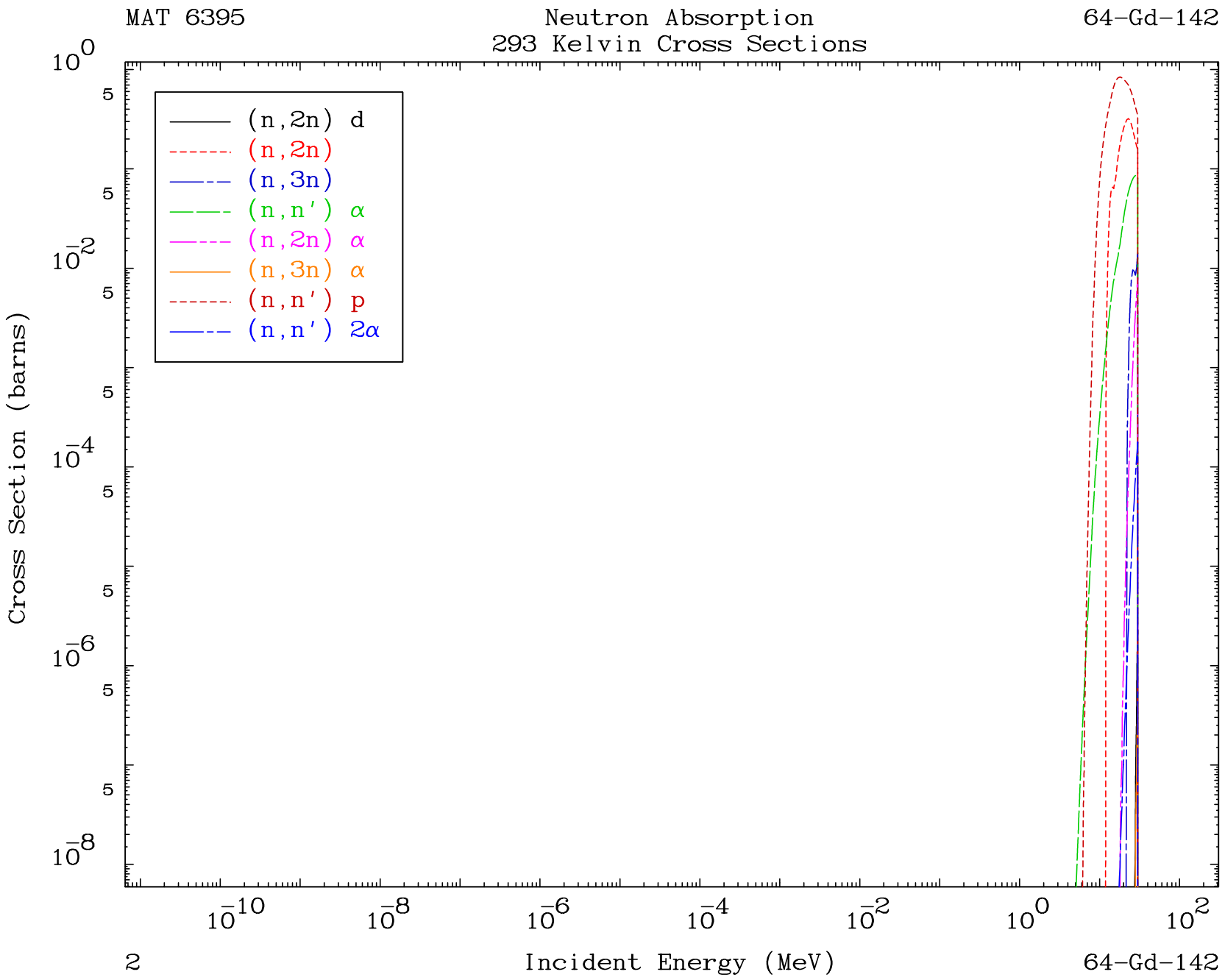
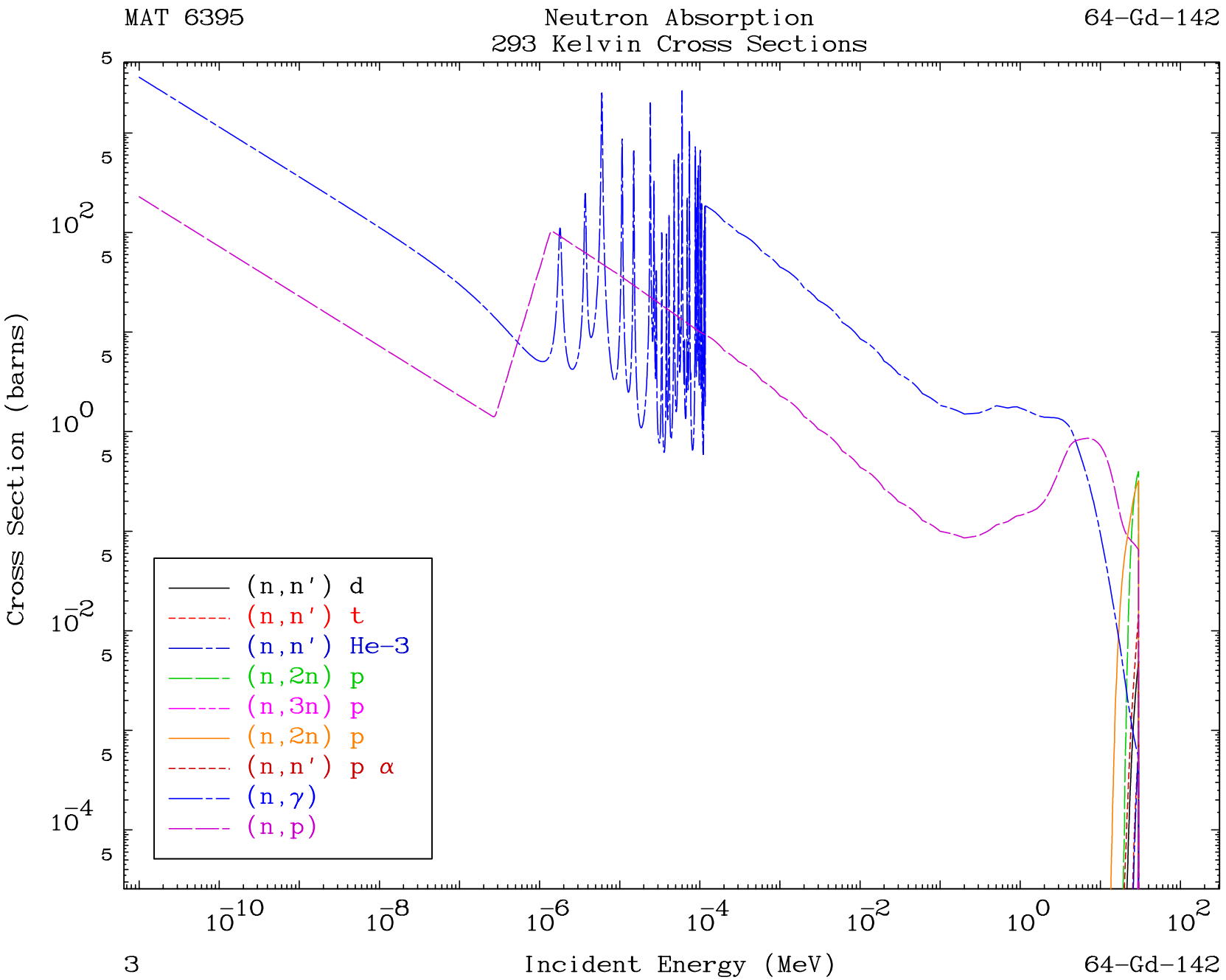
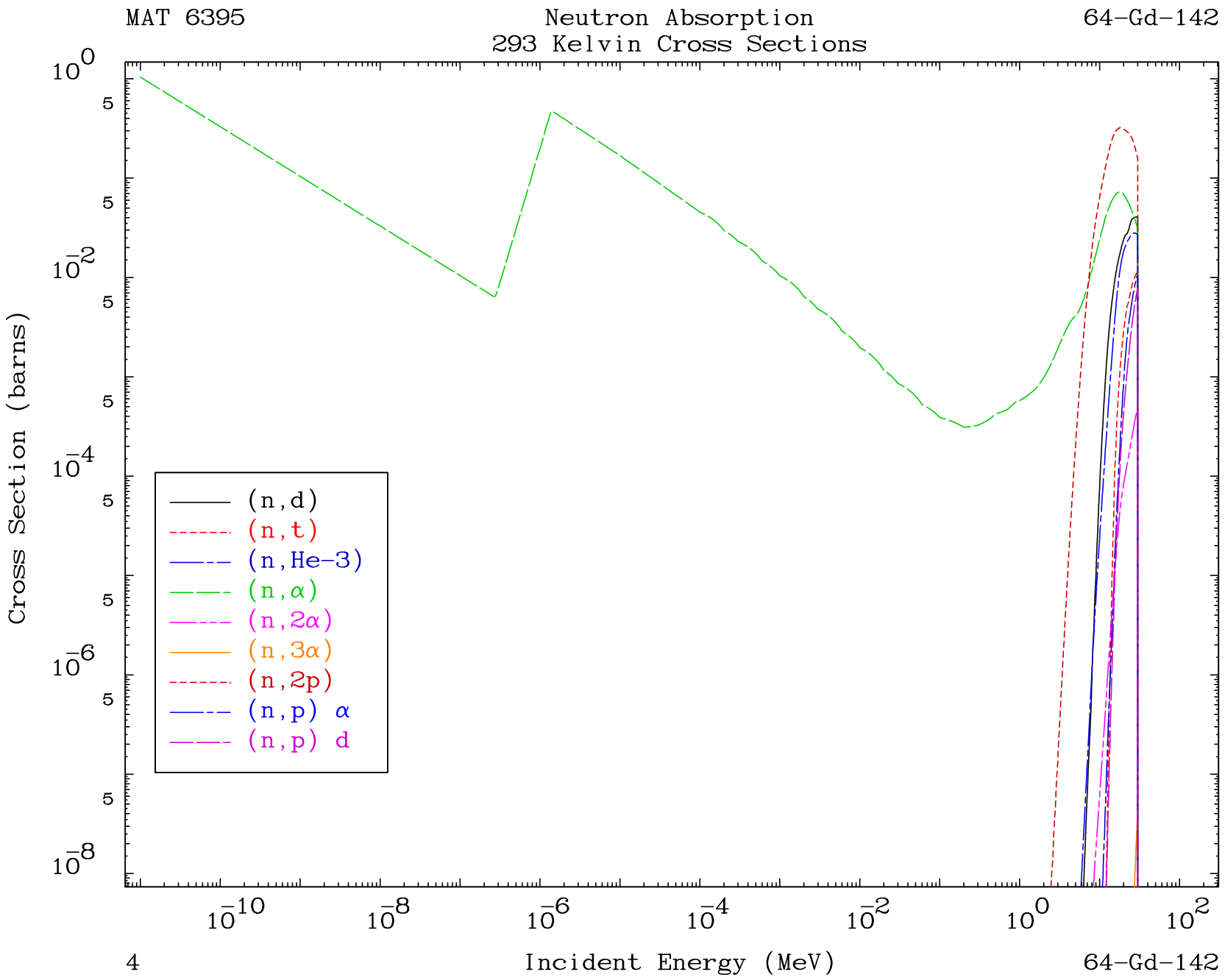
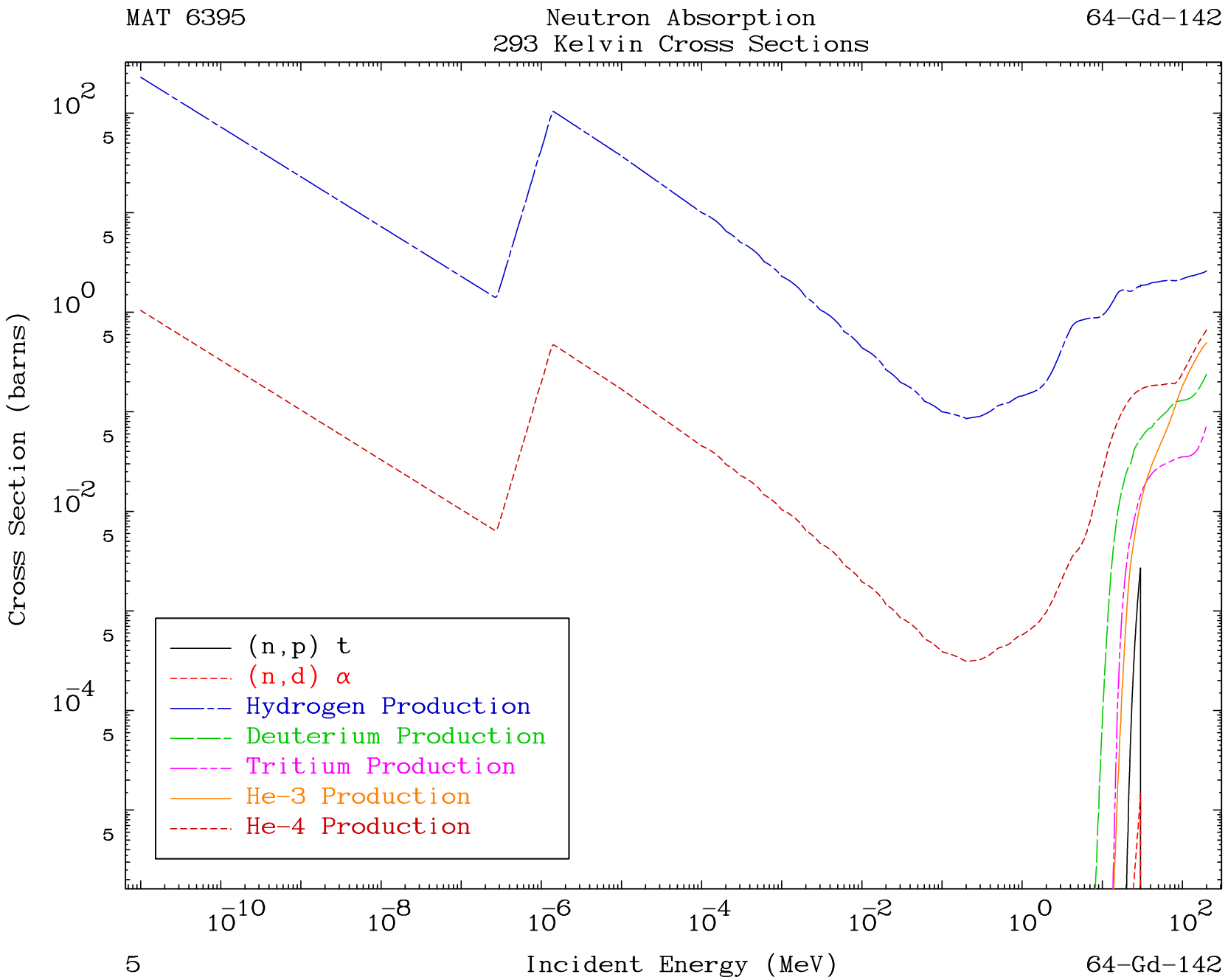
Press Mouse Button to Start

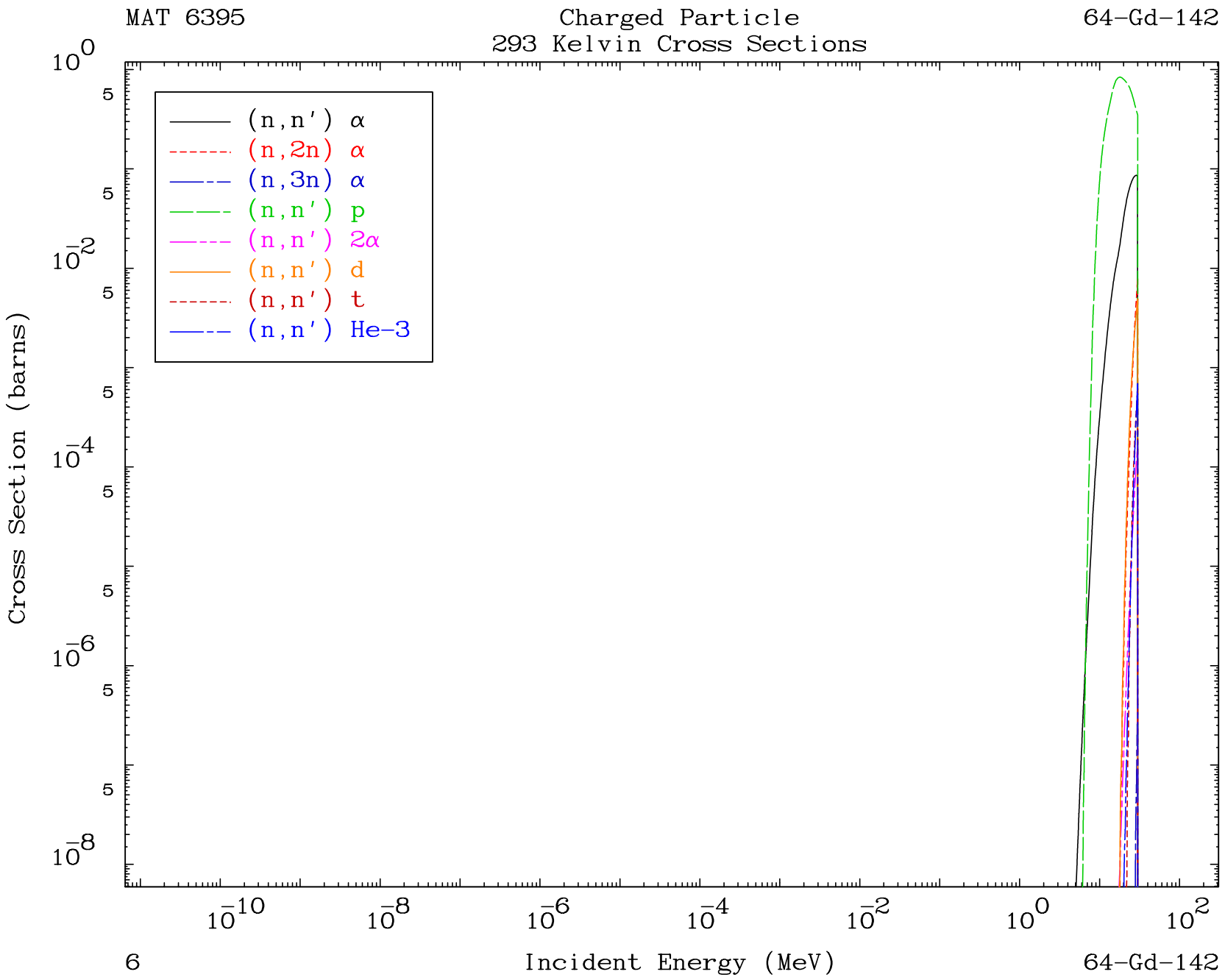

MAT 6395
Neutron Major
64-Gd-142
293 Kelvin Cross Sections
Cross Section (barns)
Incident Energy (MeV)
64-Gd-142
1
Total
Elastic
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)

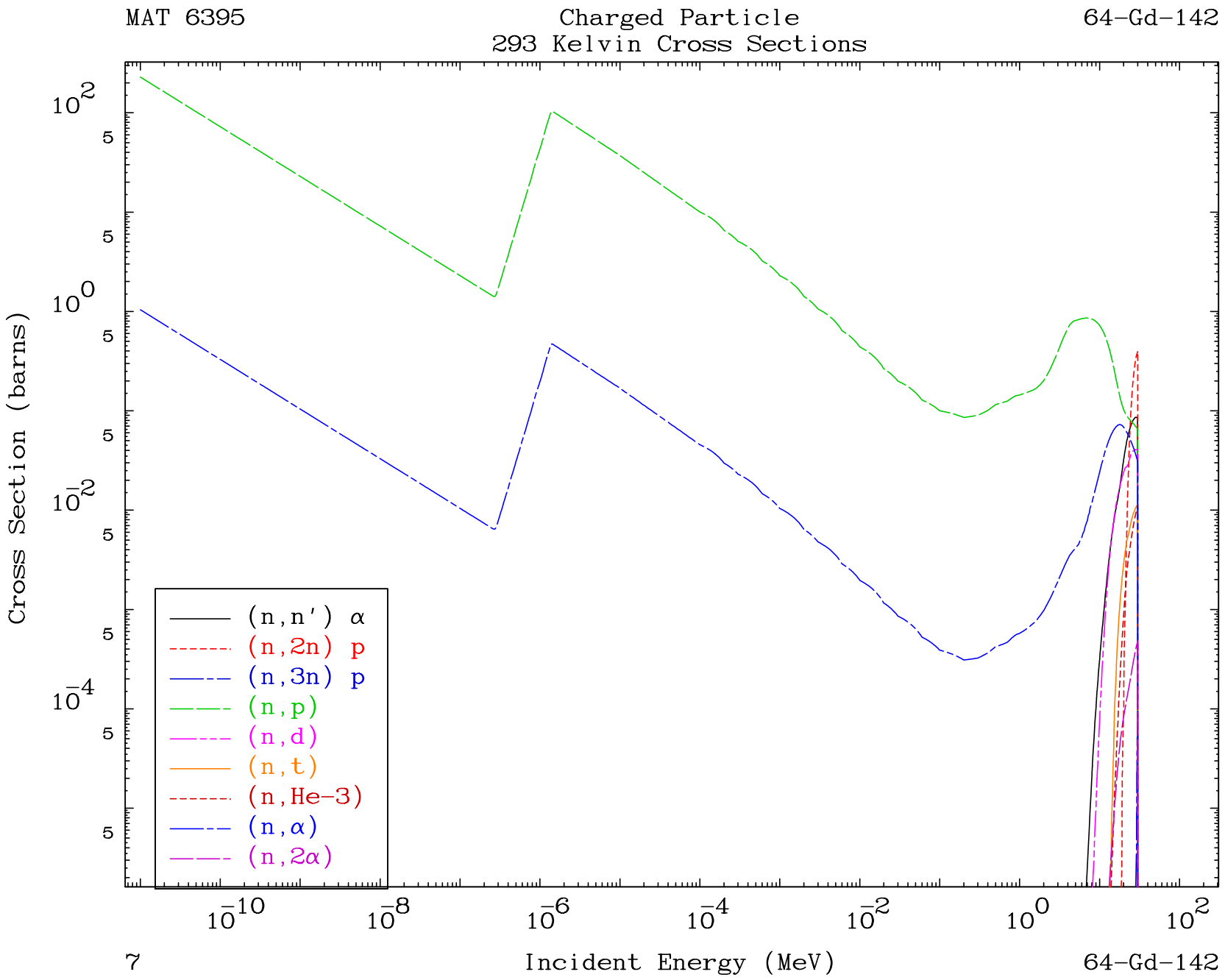

MAT 6395
Neutron Absorption
293 Kelvin Cross Sections
64-Gd-142
(n,2n) d
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
Cross Section (barns)
Incident Energy (MeV)
2
64-Gd-142

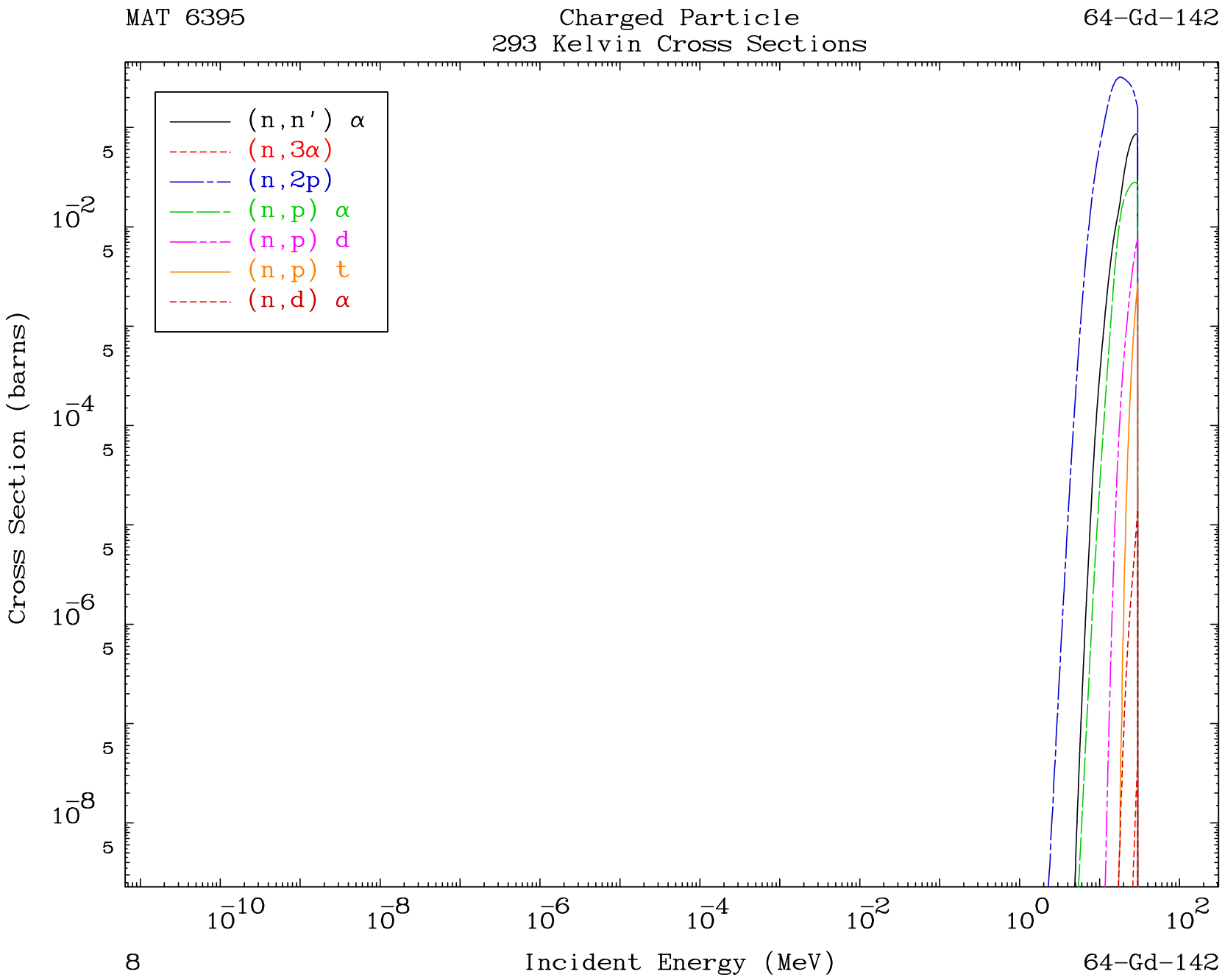

MAT 6395
Neutron Absorption
293 Kelvin Cross Sections
64-Gd-142
Cross Section (barns)
Incident Energy (MeV)
3
64-Gd-142
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
(n,3n) p
(n,2n) p
(n,n') p α
(n,γ)
(n,p)

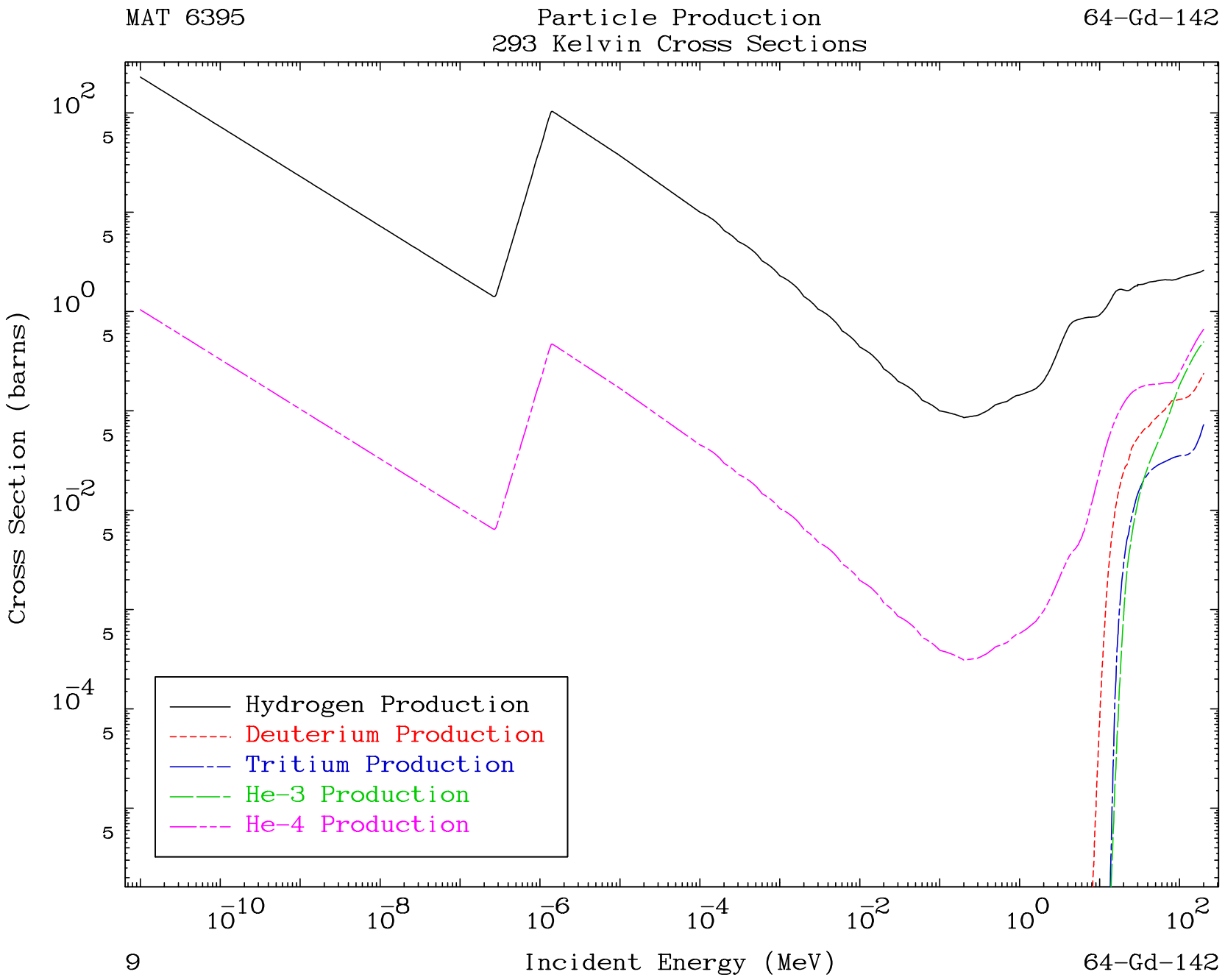

MAT 6395
Neutron Absorption
293 Kelvin Cross Sections
64-Gd-142
Cross Section (barns)
Incident Energy (MeV)
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,3α)
(n,2p)
(n,p) α
(n,p) d
4
64-Gd-142

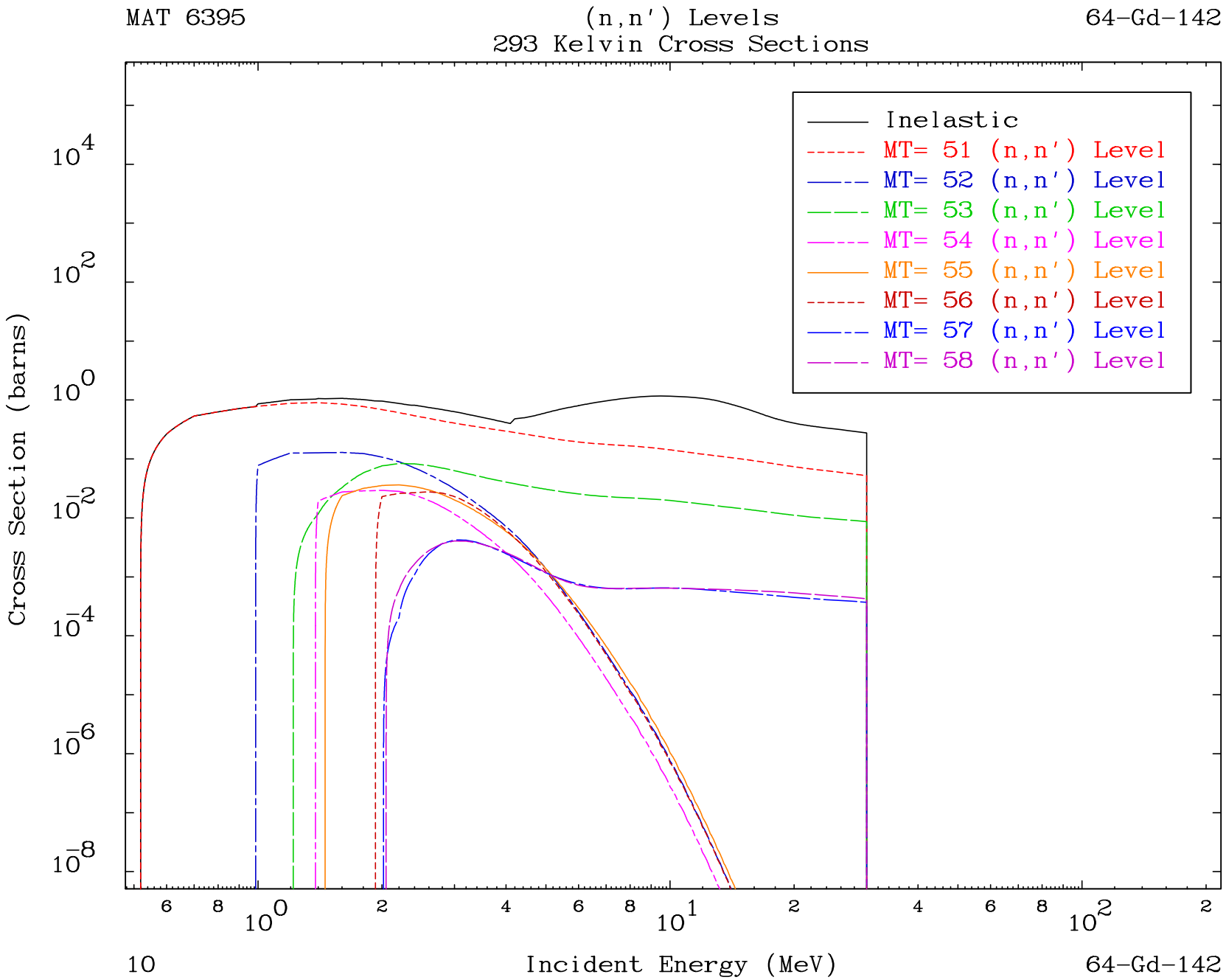

MAT 6395
Neutron Absorption
293 Kelvin Cross Sections
64-Gd-142
Cross Section (barns)
Incident Energy (MeV)
64-Gd-142
(n,p) t
(n,d) α
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production

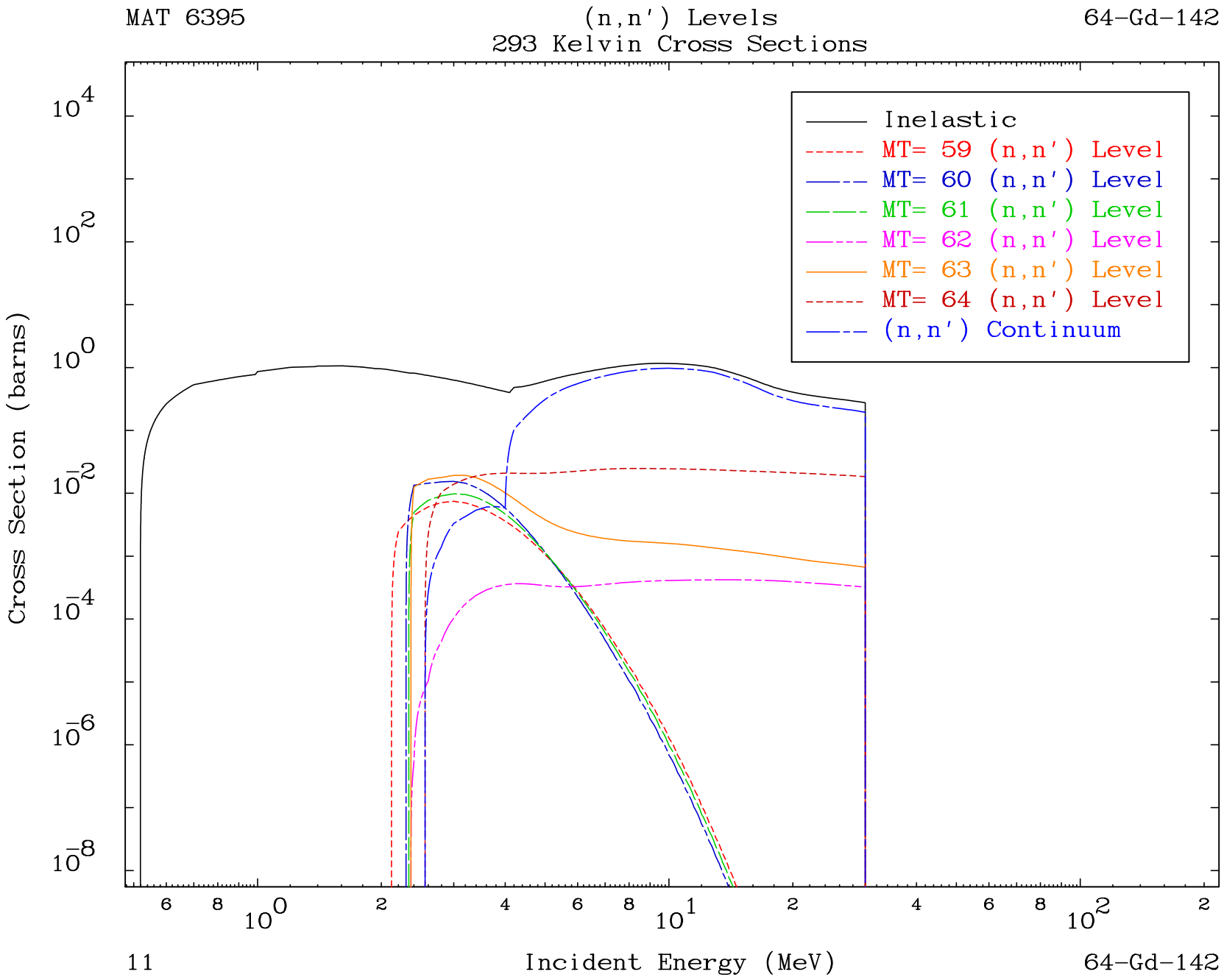

MAT 6395
Charged Particle
64-Gd-142
293 Kelvin Cross Sections
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
(n,n') He-3
Cross Section (barns)
Incident Energy (MeV)
6
64-Gd-142

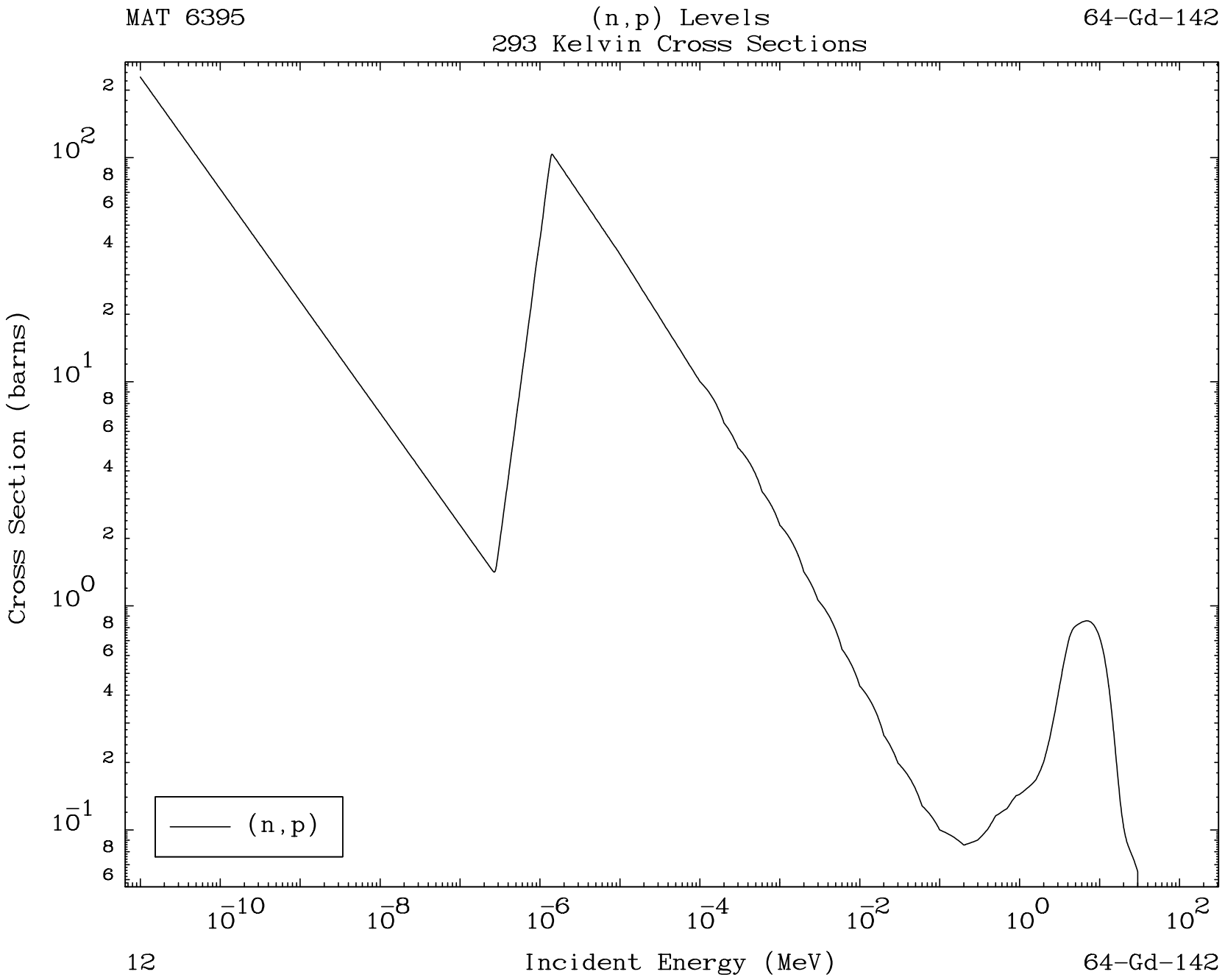

MAT 6395
Charged Particle
293 Kelvin Cross Sections
64-Gd-142
Cross Section (barns)
Incident Energy (MeV)
(n,n') α
(n,2n) p
(n,3n) p
(n,p)
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
7
64-Gd-142

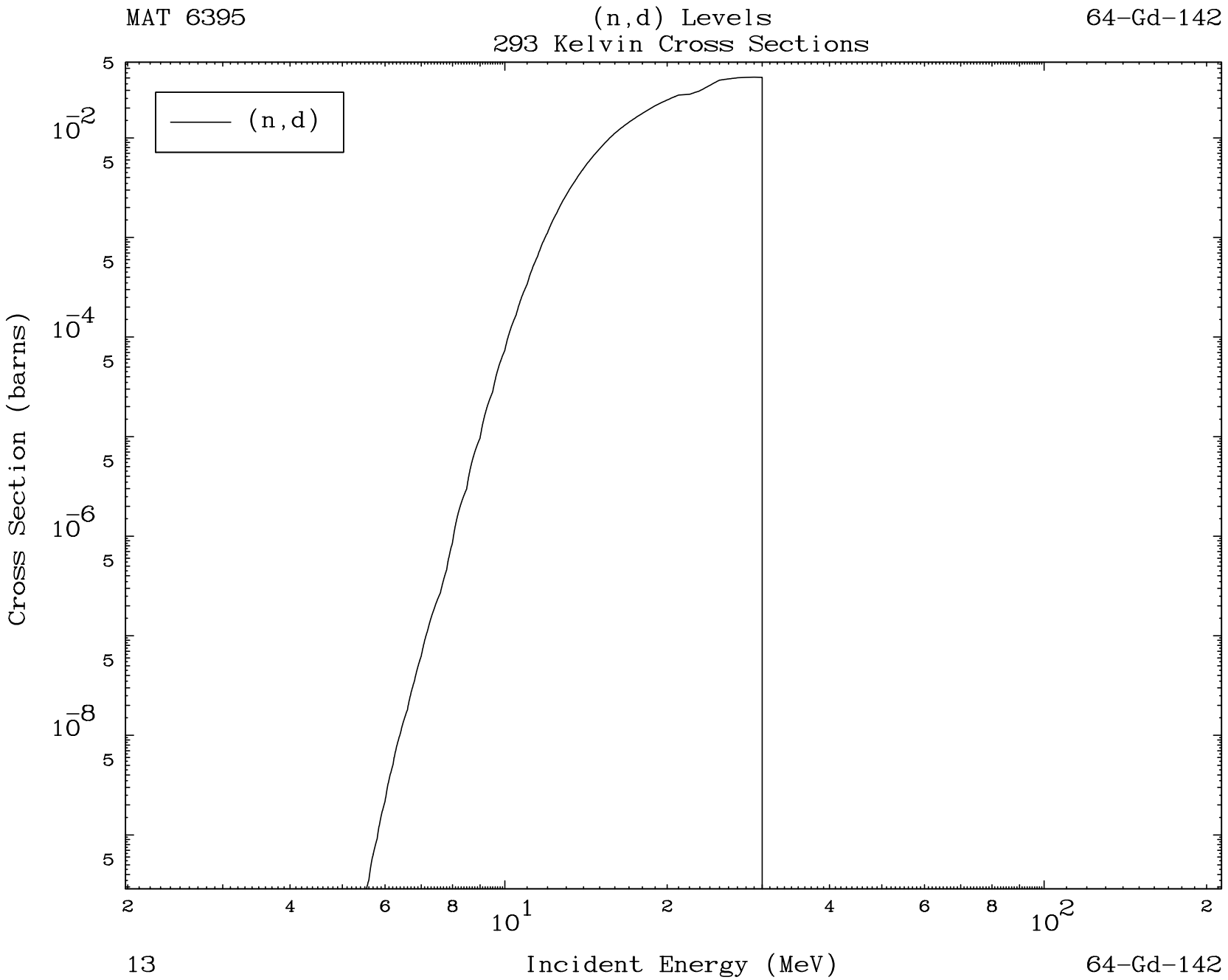

MAT 6395
Charged Particle
64-Gd-142
293 Kelvin Cross Sections
(n,n') α
(n,3α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
10^-2
10^-4
10^-6
10^-8
5
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
Incident Energy (MeV)
8
64-Gd-142

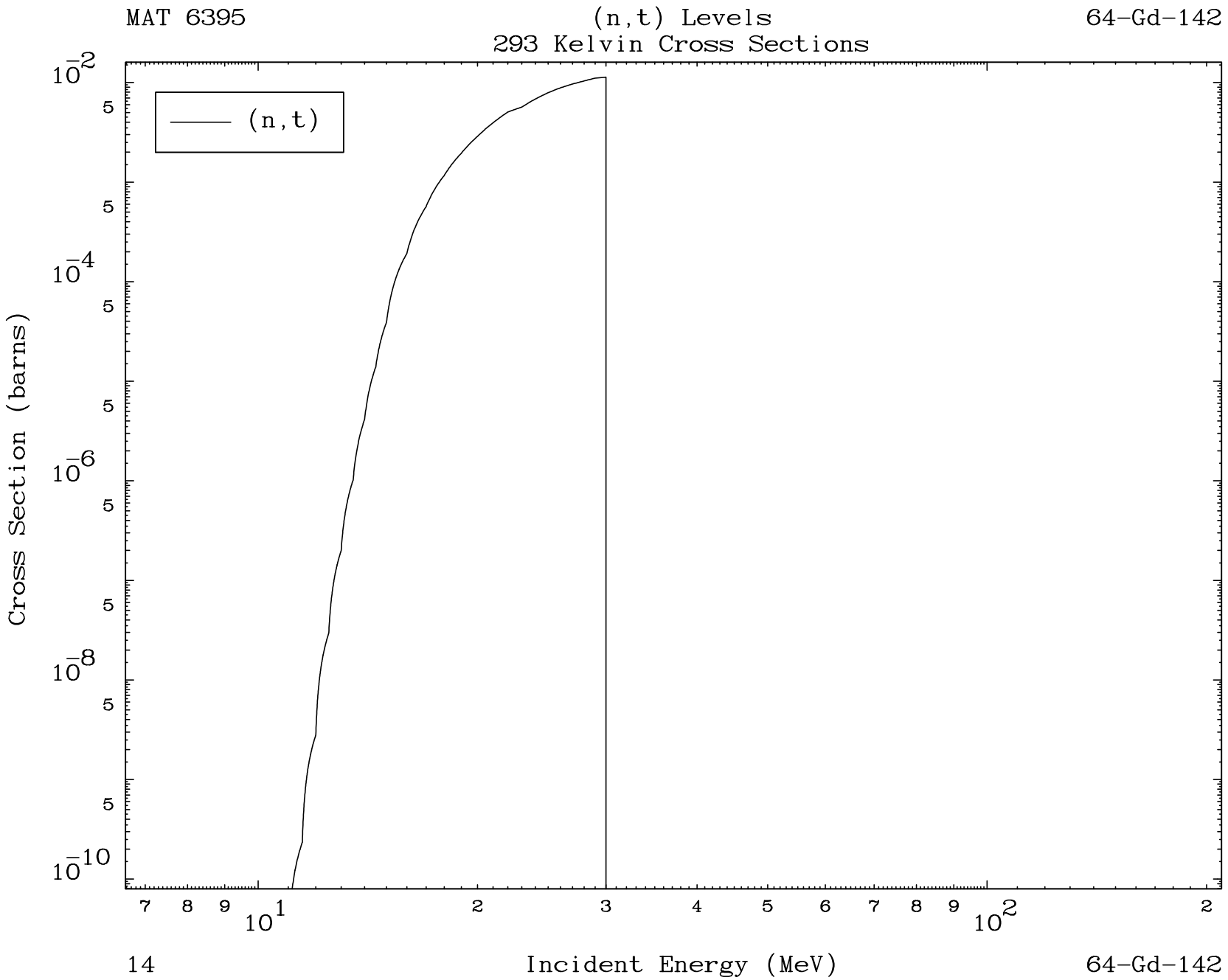

MAT 6395
Particle Production
64-Gd-142
293 Kelvin Cross Sections
Cross Section (barns)
Incident Energy (MeV)
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production
9
64-Gd-142

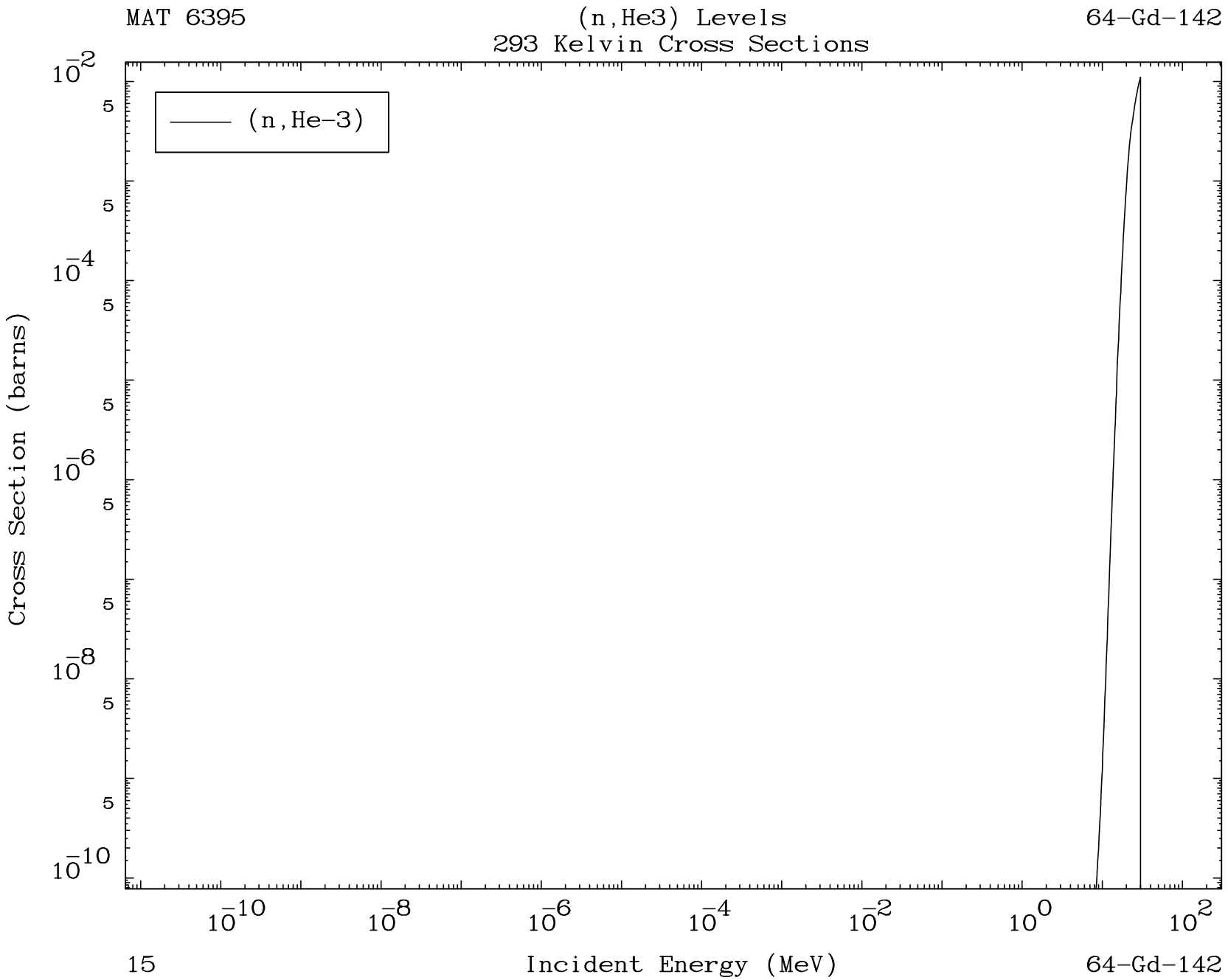

MAT 6395
(n,n') Levels
293 Kelvin Cross Sections
64-Gd-142
Inelastic
MT= 51 (n,n') Level
MT= 52 (n,n') Level
MT= 53 (n,n') Level
MT= 54 (n,n') Level
MT= 55 (n,n') Level
MT= 56 (n,n') Level
MT= 57 (n,n') Level
MT= 58 (n,n') Level
Cross Section (barns)
Incident Energy (MeV)
64-Gd-142

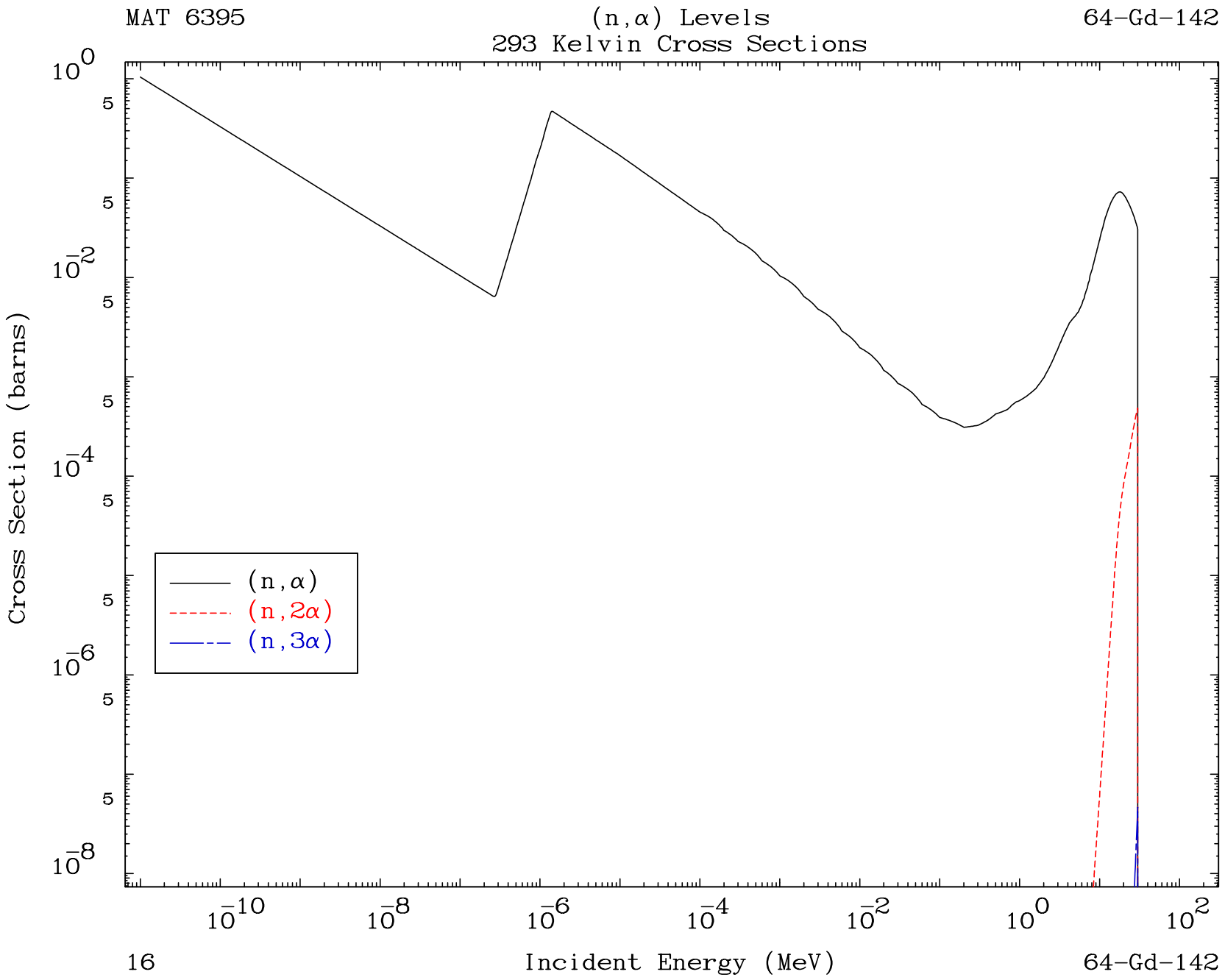

MAT 6395
(n,n') Levels
293 Kelvin Cross Sections
64-Gd-142
Inelastic
MT= 59 (n,n') Level
MT= 60 (n,n') Level
MT= 61 (n,n') Level
MT= 62 (n,n') Level
MT= 63 (n,n') Level
MT= 64 (n,n') Level
(n,n') Continuum
Cross Section (barns)
Incident Energy (MeV)
11
64-Gd-142

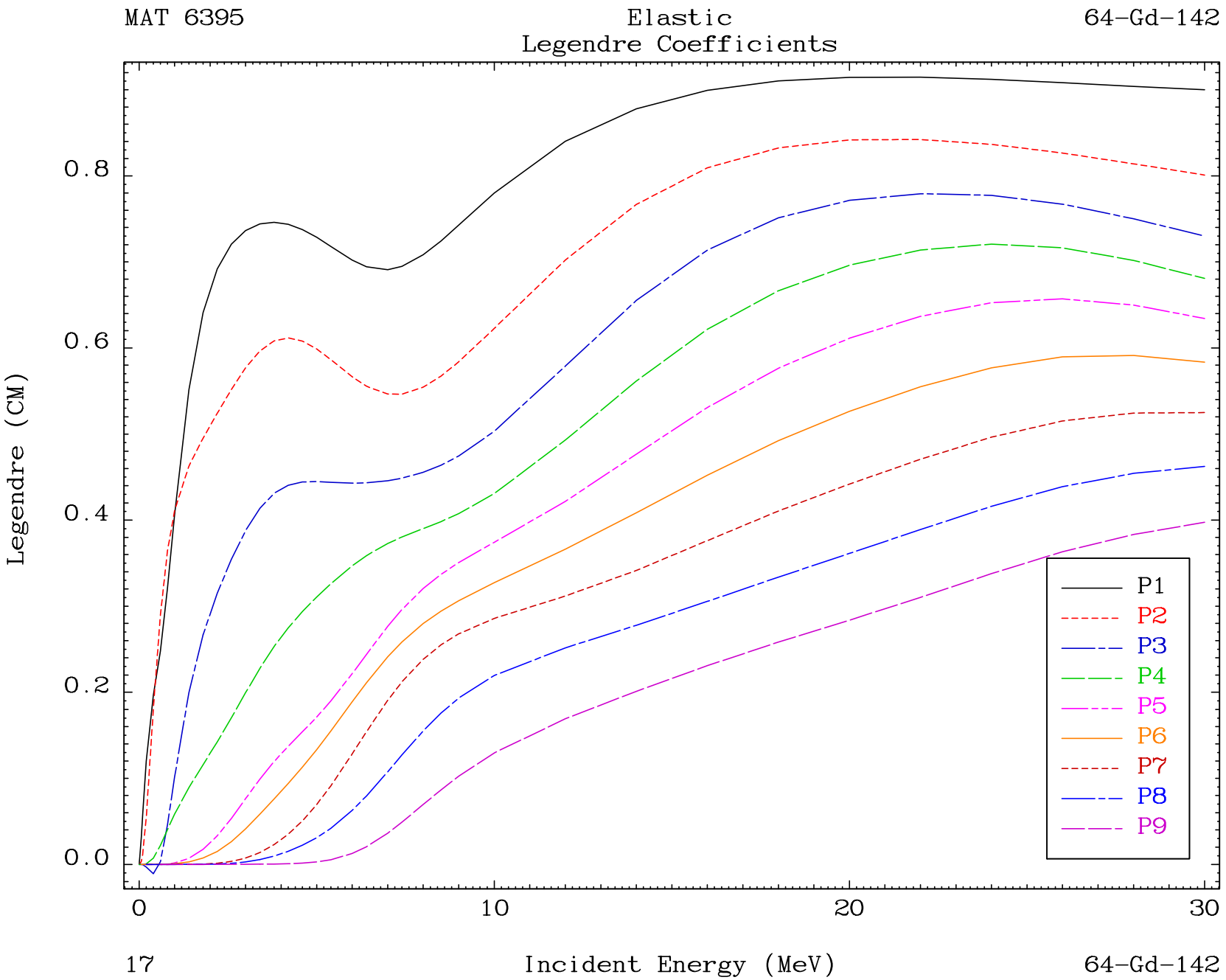

MAT 6395
(n,p) Levels
64-Gd-142
293 Kelvin Cross Sections
Cross Section (barns)
(n,p)
Incident Energy (MeV)
12
64-Gd-142

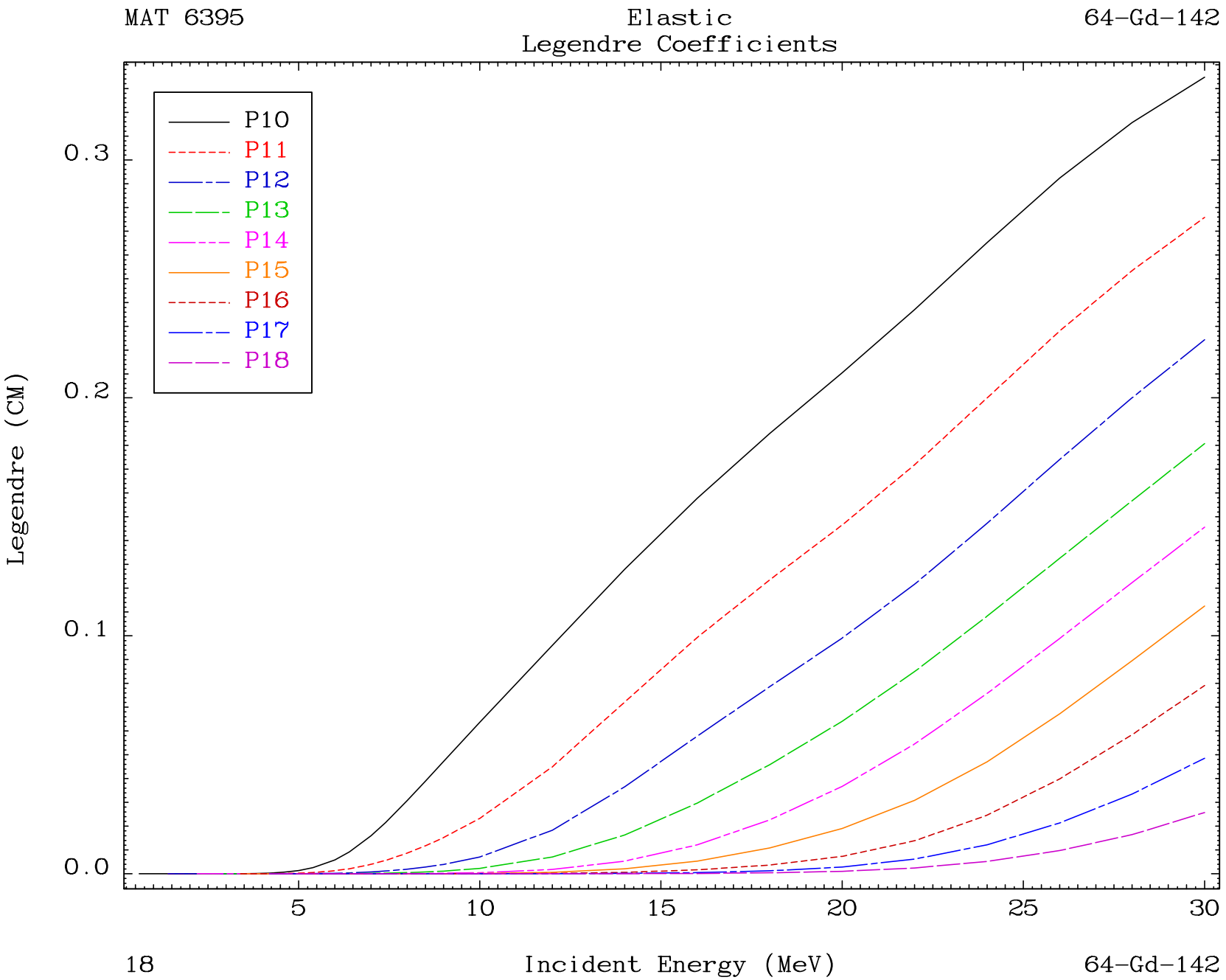

MAT 6395
(n,d) Levels
64-Gd-142
293 Kelvin Cross Sections
(n,d)
Cross Section (barns)
10^-2
10^-4
10^-6
10^-8
10^1
10^2
Incident Energy (MeV)
13
64-Gd-142

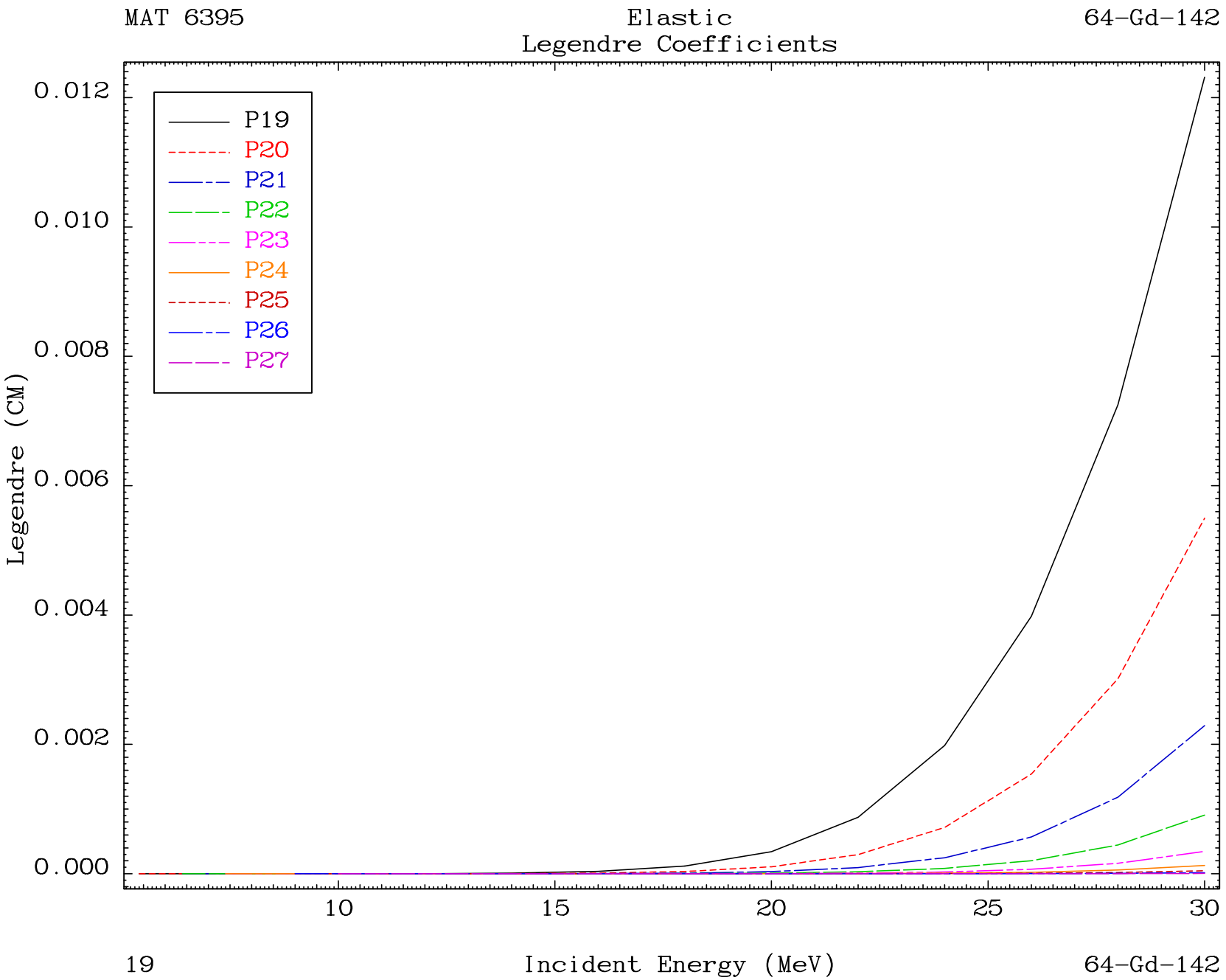

MAT 6395
(n,t) Levels
64-Gd-142
293 Kelvin Cross Sections
(n,t)
Cross Section (barns)
Incident Energy (MeV)
14
64-Gd-142

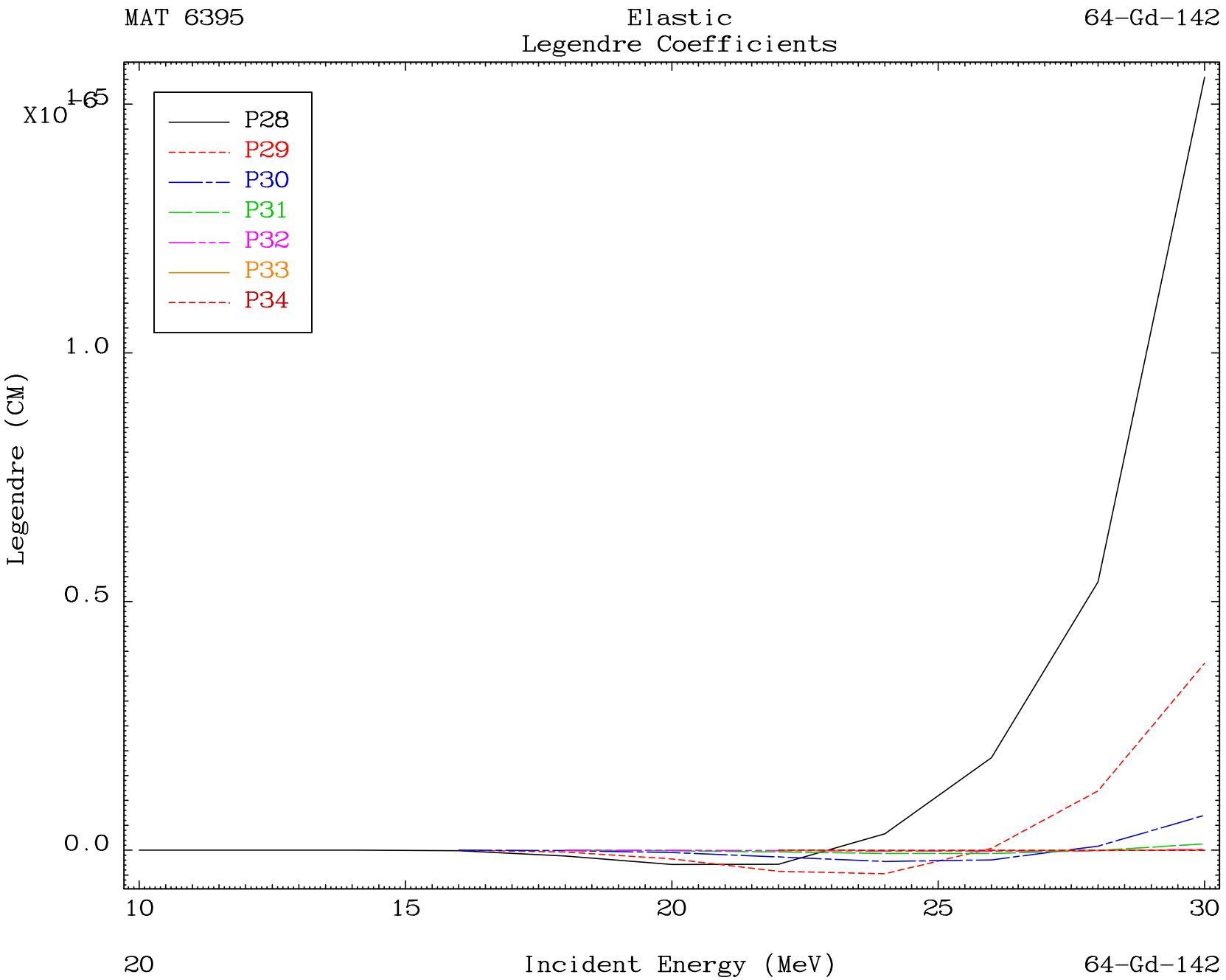

MAT 6395
(n,He3) Levels
64-Gd-142
293 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
Incident Energy (MeV)
15
64-Gd-142

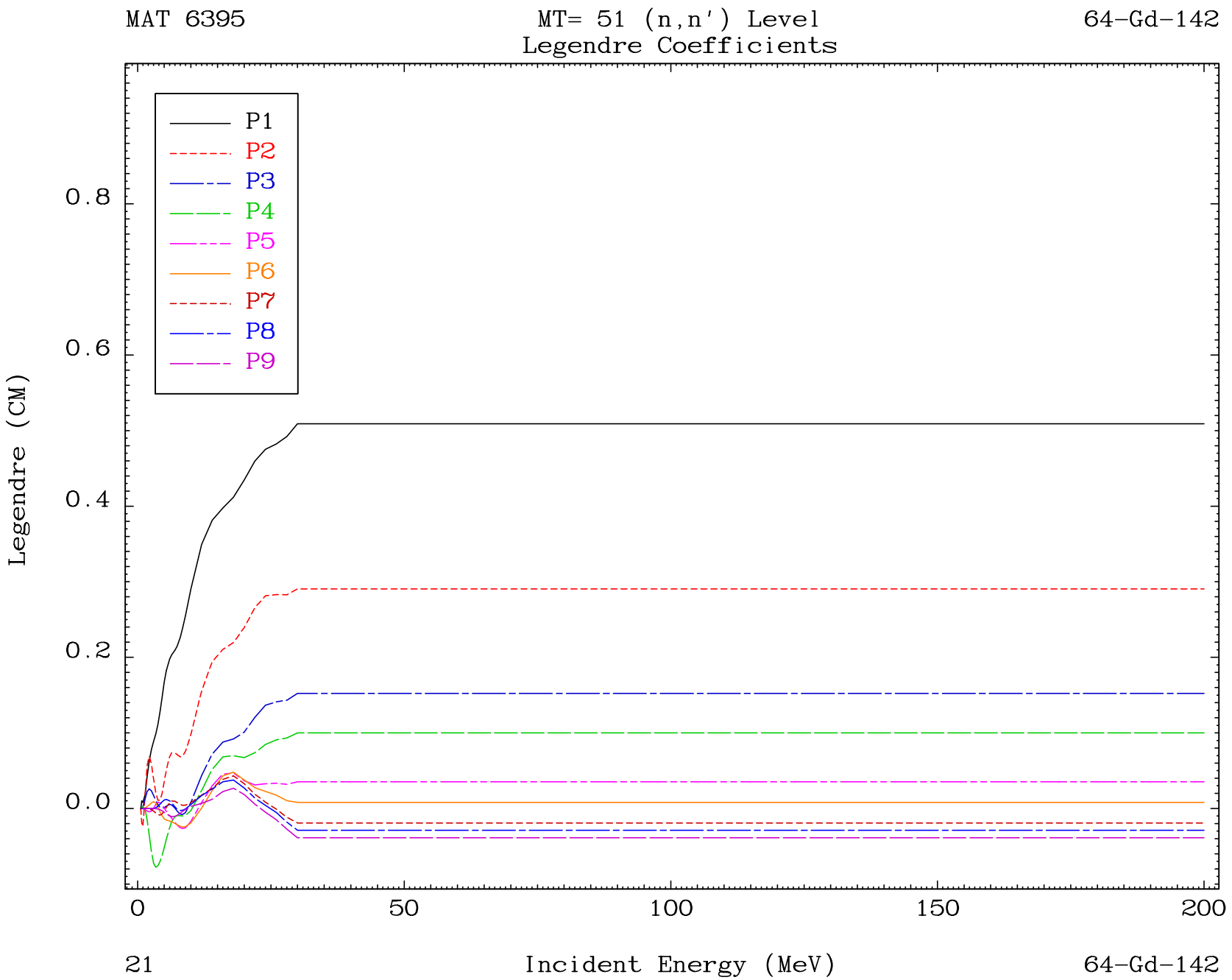

MAT 6395
(n,α) Levels
64-Gd-142
293 Kelvin Cross Sections
Cross Section (barns)
Incident Energy (MeV)
(n,α)
(n,2α)
(n,3α)
16
64-Gd-142

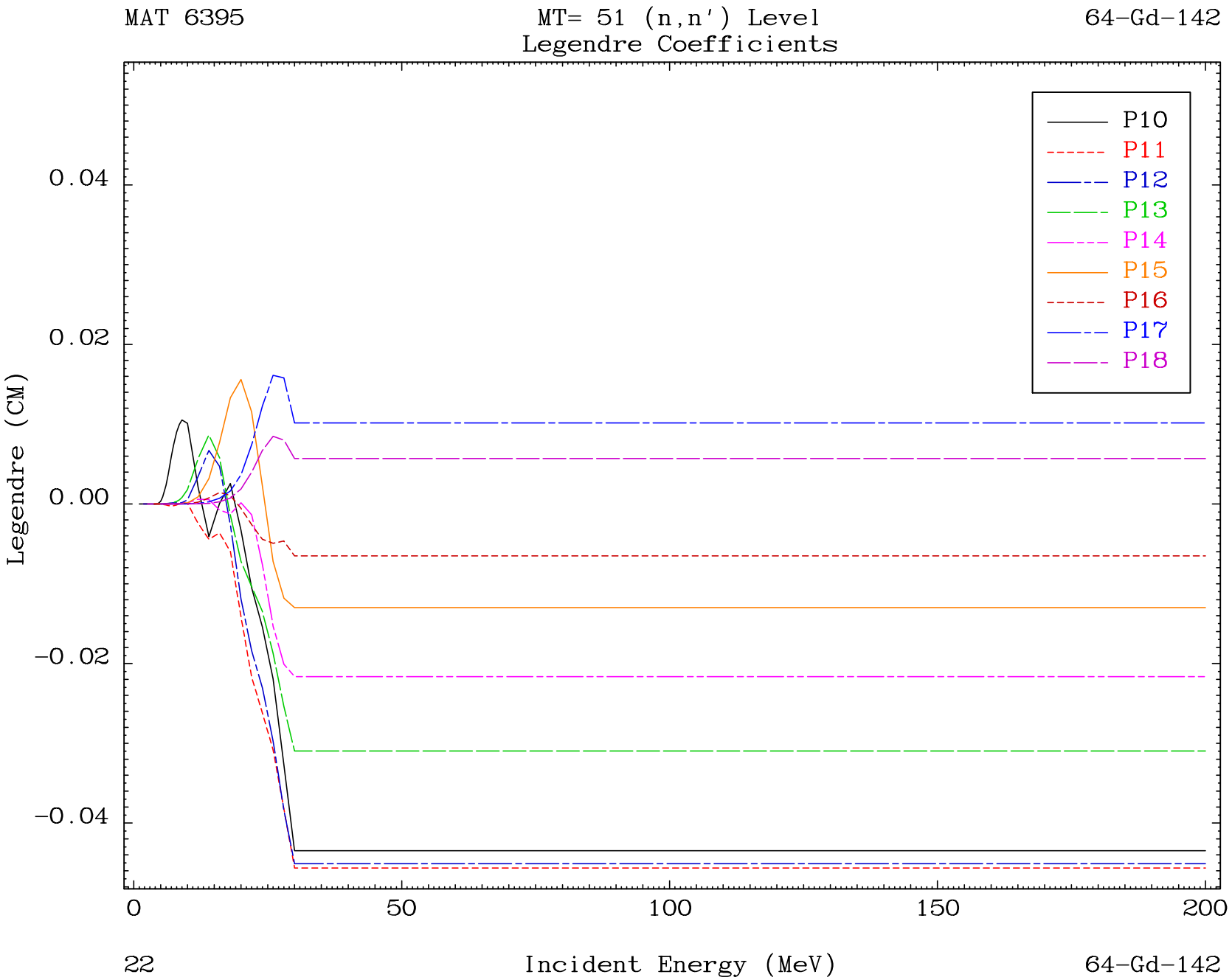

MAT 6395
Elastic
Legendre Coefficients
64-Gd-142
Legendre (CM)
0.0
0.2
0.4
0.6
0.8
0
10
20
30
17
Incident Energy (MeV)
64-Gd-142
P1
P2
P3
P4
P5
P6
P7
P8
P9

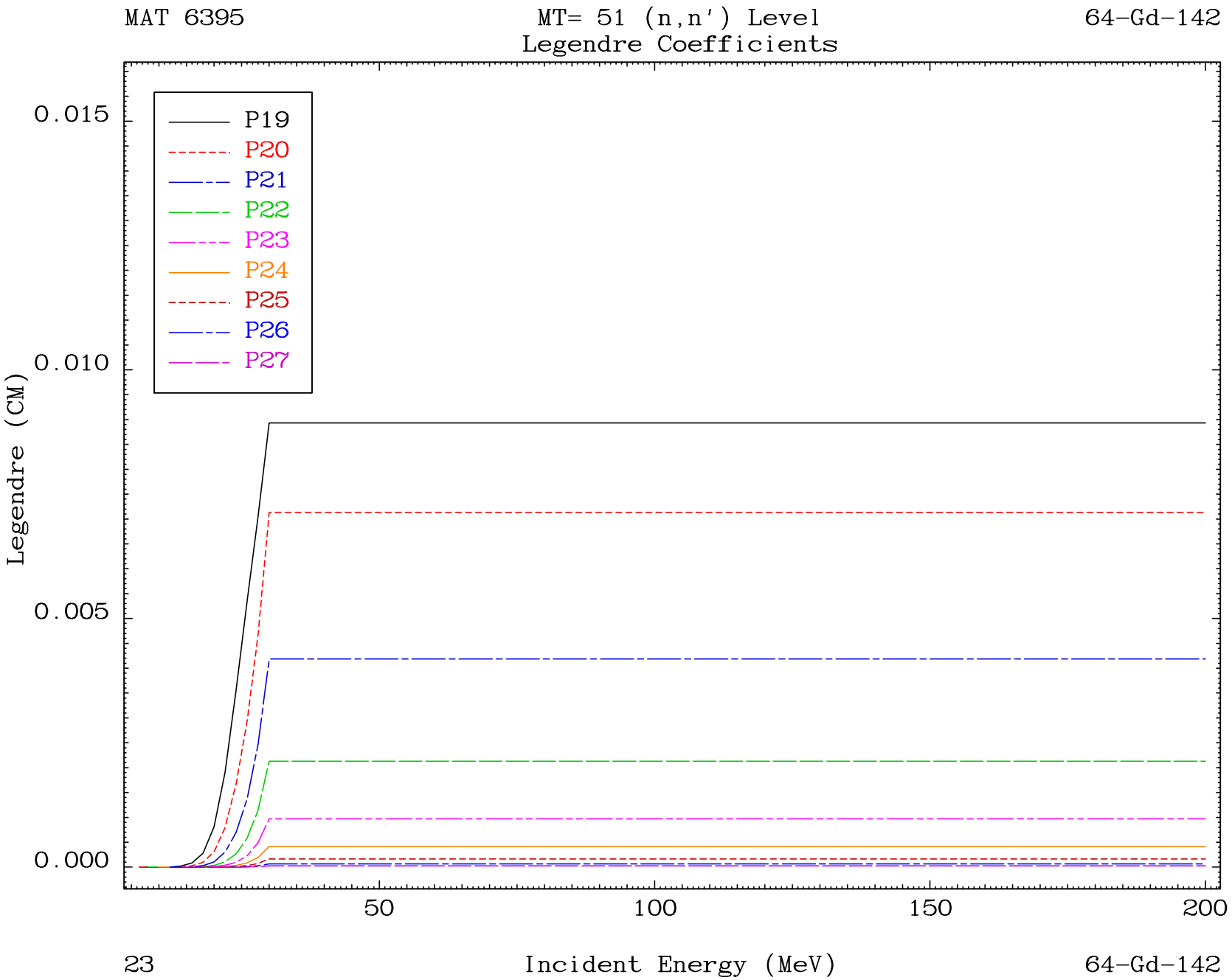

MAT 6395
Elastic
Legendre Coefficients
64-Gd-142
P10
P11
P12
P13
P14
P15
P16
P17
P18
Legendre (CM)
0.0
0.1
0.2
0.3
5
10
15
20
25
30
18
Incident Energy (MeV)
64-Gd-142

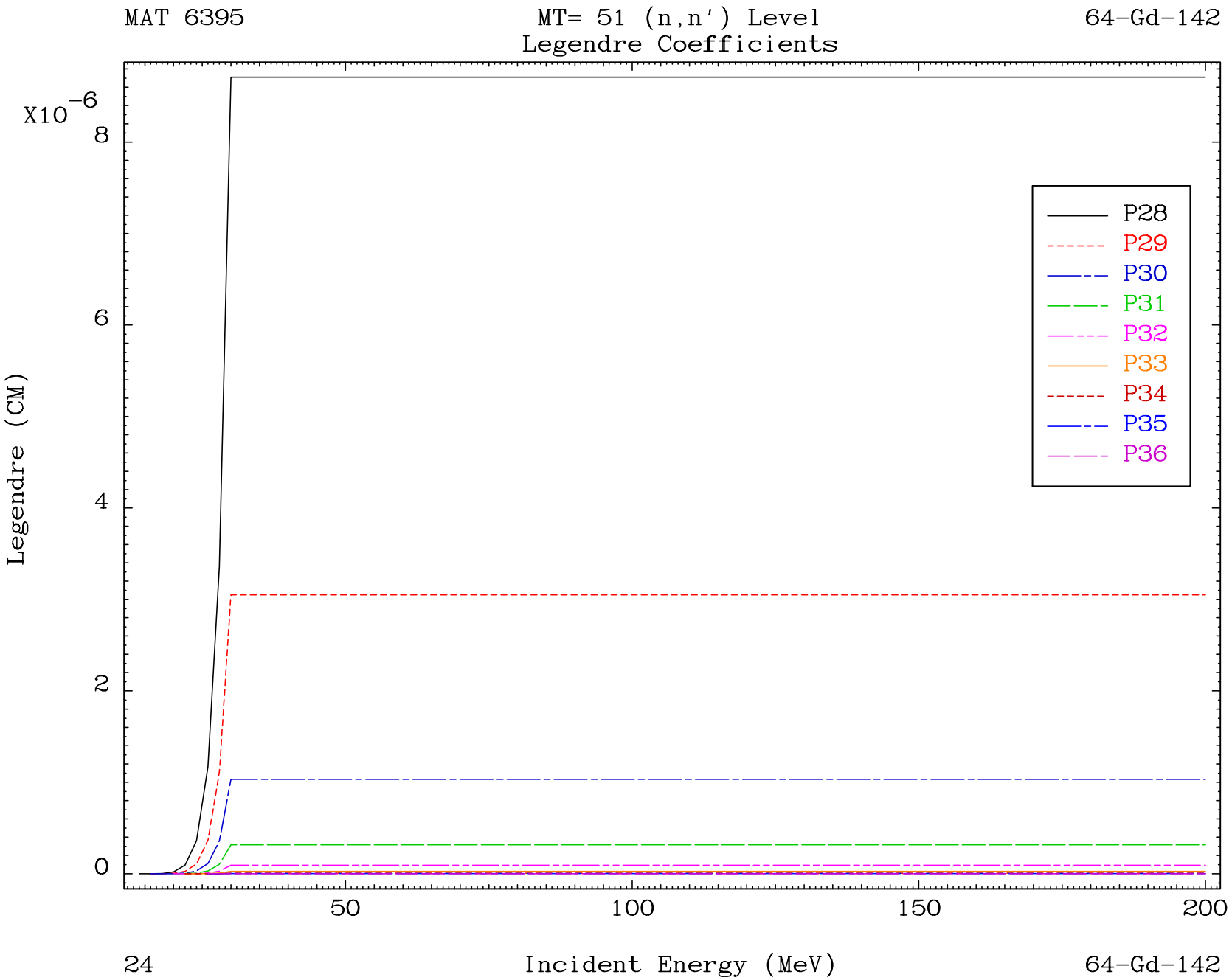

MAT 6395
Elastic
Legendre Coefficients
64-Gd-142
P19
P20
P21
P22
P23
P24
P25
P26
P27
0.012
0.010
0.008
0.006
0.004
0.002
0.000
Legendre (CM)
10
15
20
25
30
19
Incident Energy (MeV)
64-Gd-142

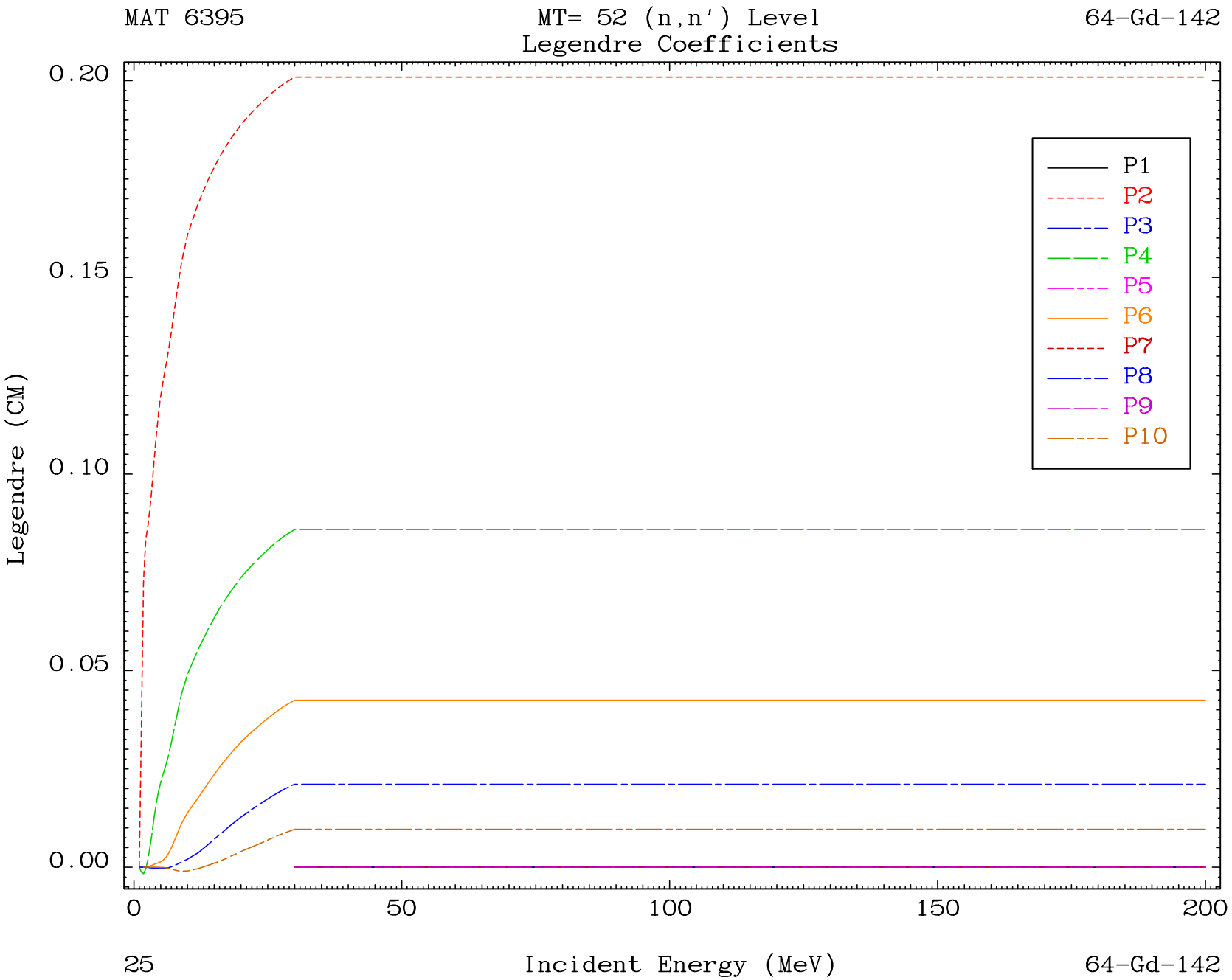

MAT 6395
Elastic
Legendre Coefficients
64-Gd-142
X10-5
1.5
1.0
0.5
0.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
10
15
20
25
30
20
Incident Energy (MeV)
64-Gd-142

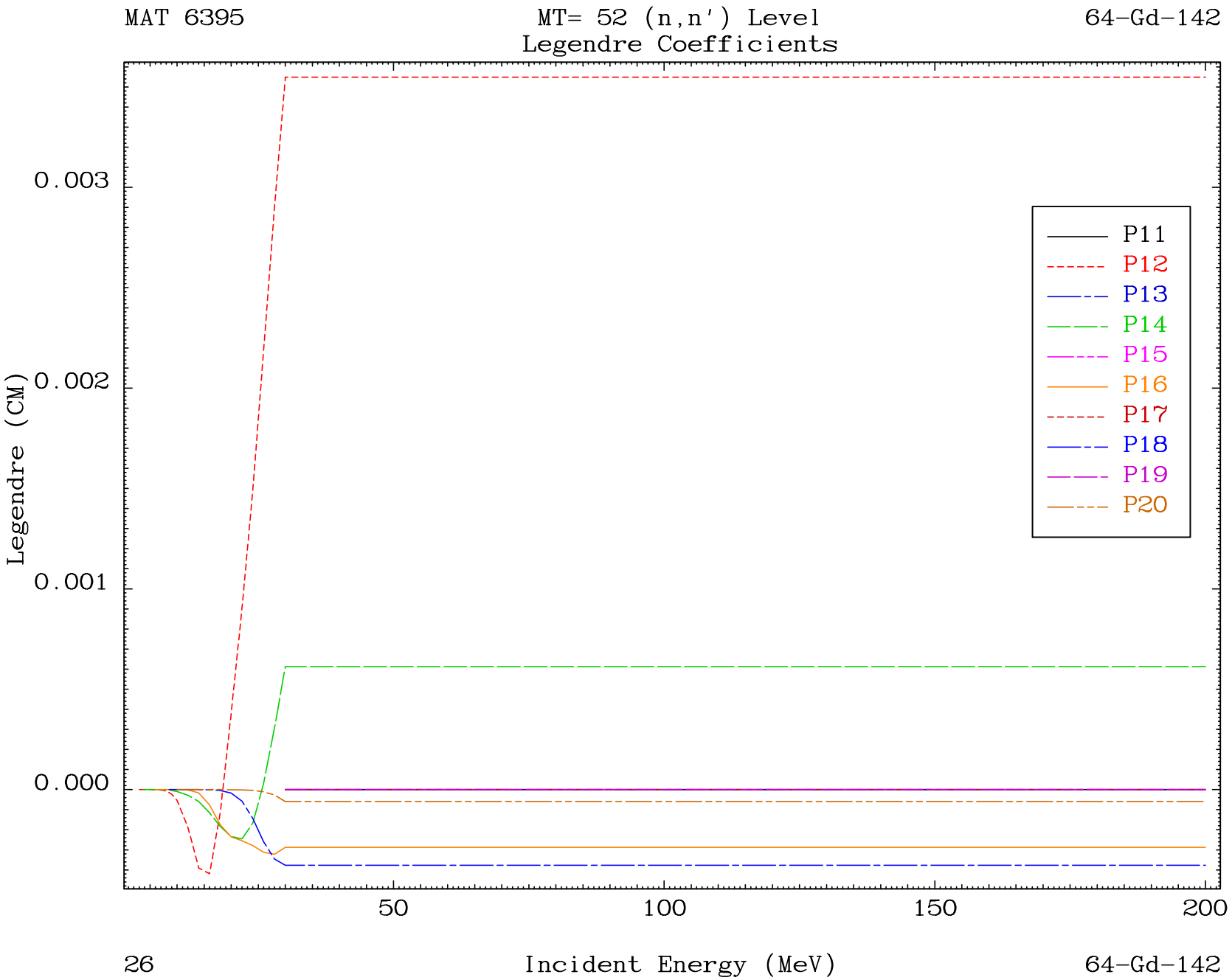

MAT 6395
MT= 51 (n,n') Level
Legendre Coefficients
64-Gd-142
P1
P2
P3
P4
P5
P6
P7
P8
P9
Legendre (CM)
0.8
0.6
0.4
0.2
0.0
0
50
100
150
200
21
Incident Energy (MeV)
64-Gd-142

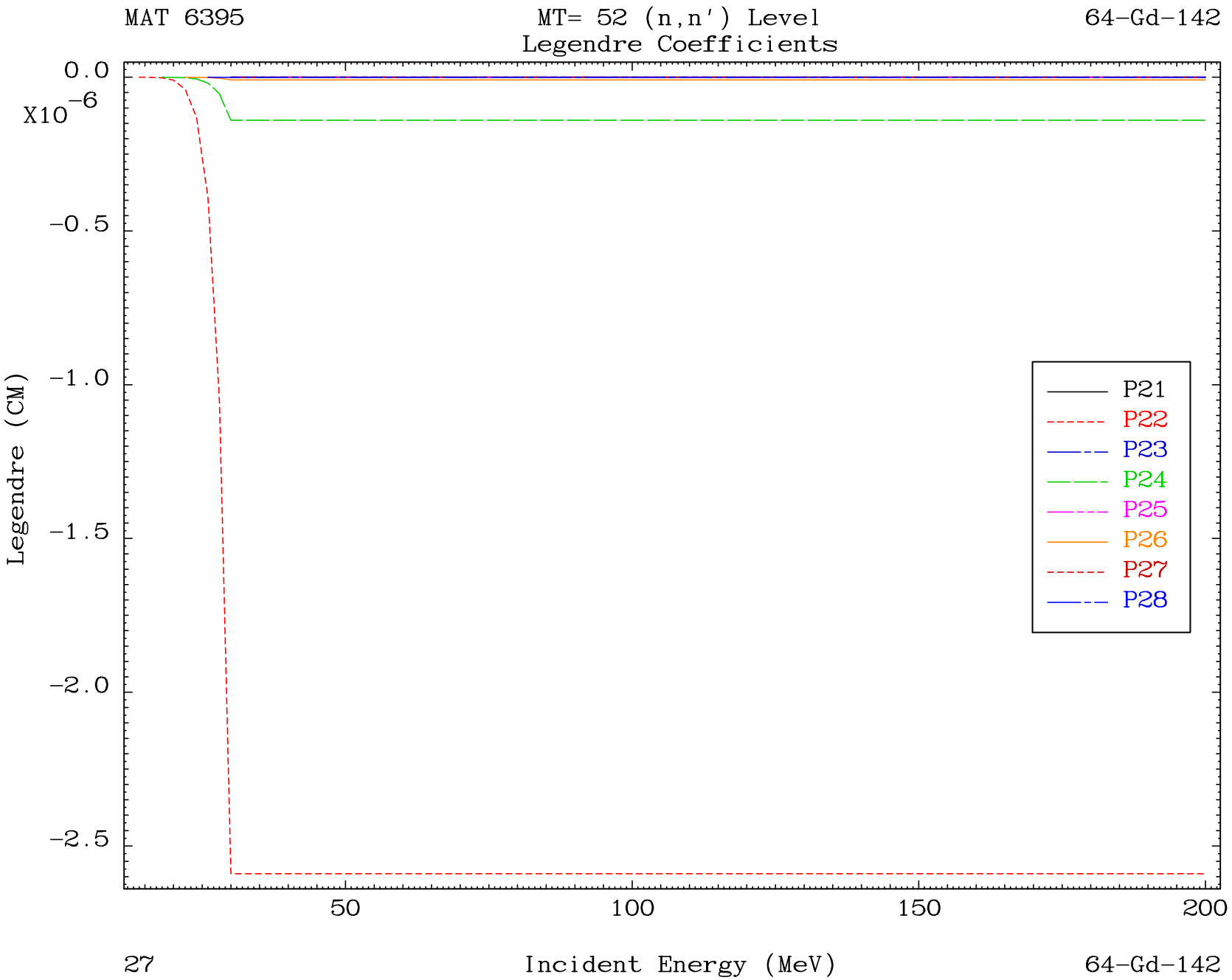

MAT 6395
MT= 51 (n,n') Level
Legendre Coefficients
64-Gd-142
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.04
0.02
0.00
-0.02
-0.04
Legendre (CM)
0
50
100
150
200
22
Incident Energy (MeV)
64-Gd-142

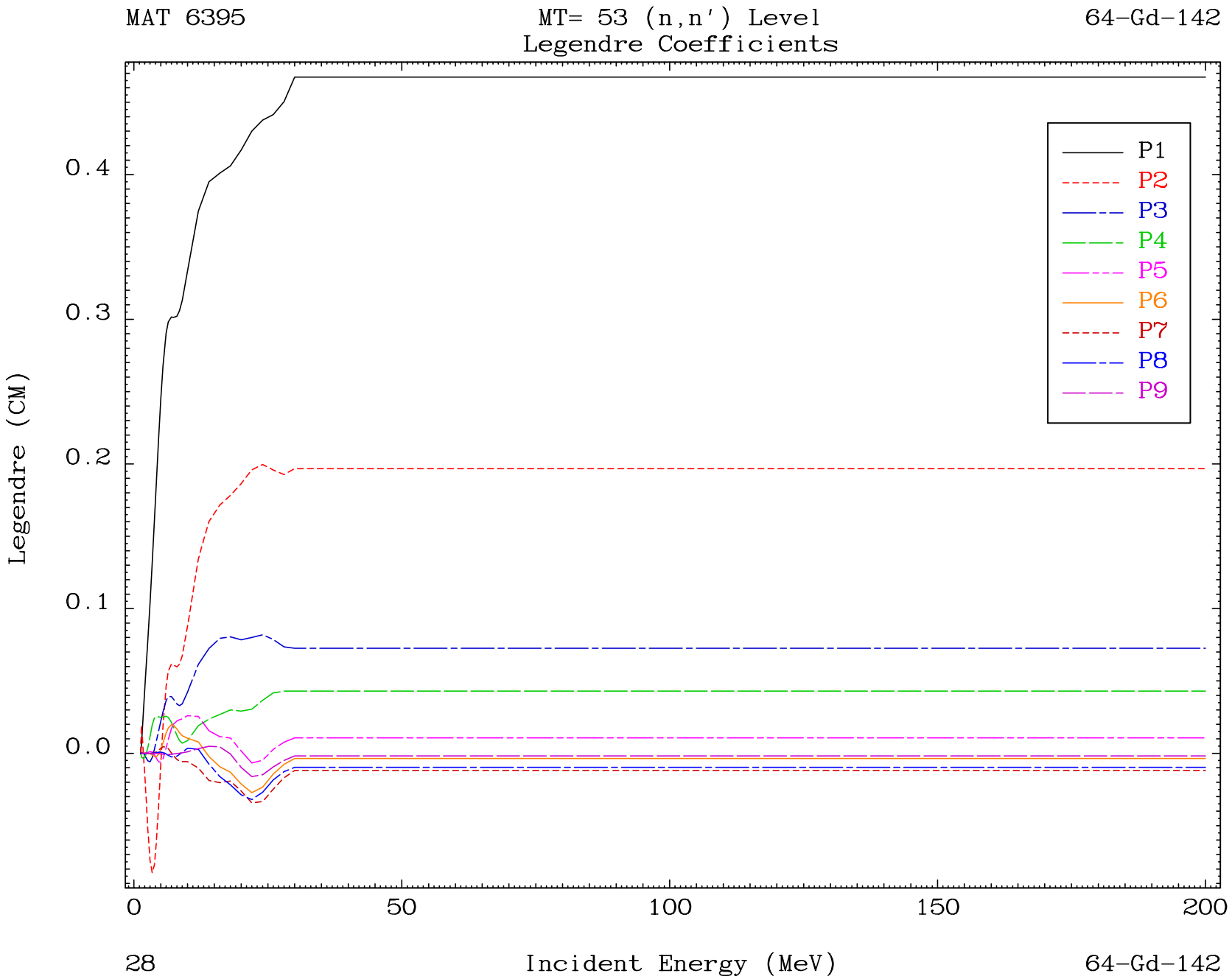

MAT 6395
MT= 51 (n,n') Level
Legendre Coefficients
64-Gd-142
P19
P20
P21
P22
P23
P24
P25
P26
P27
0.015
0.010
0.005
0.000
Legendre (CM)
50
100
150
200
23
Incident Energy (MeV)
64-Gd-142

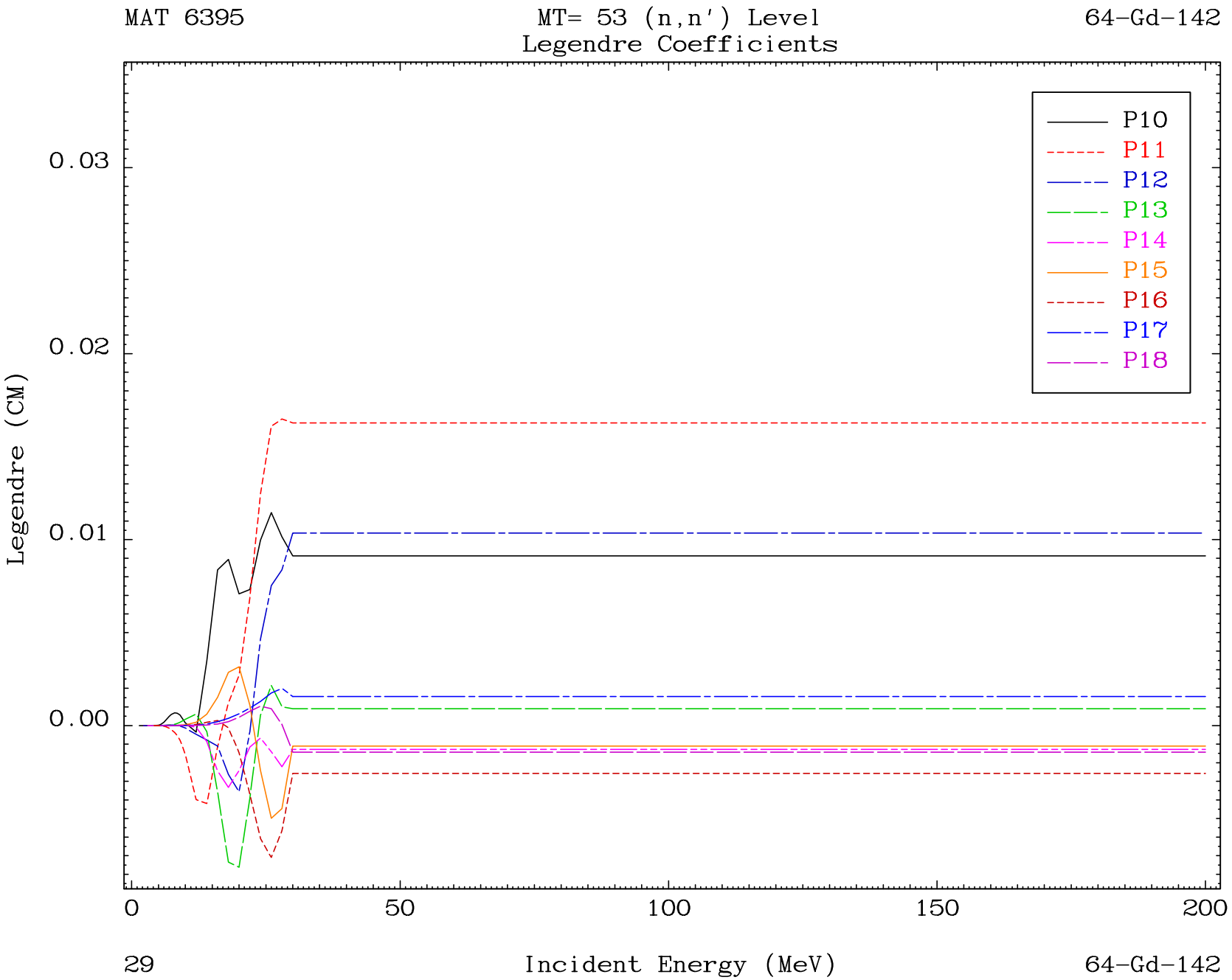

MAT 6395
MT= 51 (n,n') Level
Legendre Coefficients
64-Gd-142
X10^-6
8
6
4
2
0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
P35
P36
50
100
150
200
24
Incident Energy (MeV)
64-Gd-142

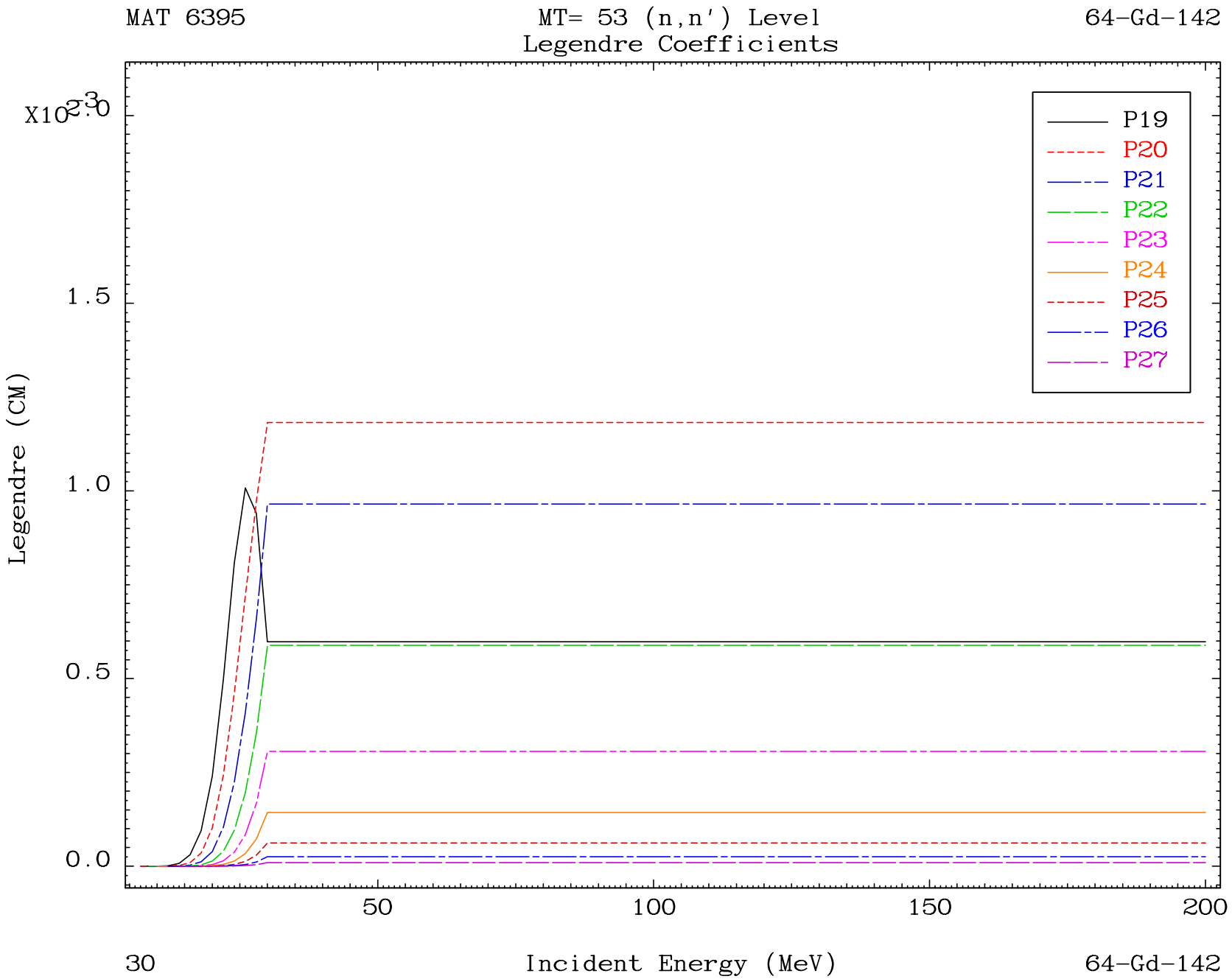

MAT 6395
MT= 52 (n,n') Level
Legendre Coefficients
64-Gd-142
0.20
0.15
0.10
0.05
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
0
50
100
150
200
25
Incident Energy (MeV)
64-Gd-142

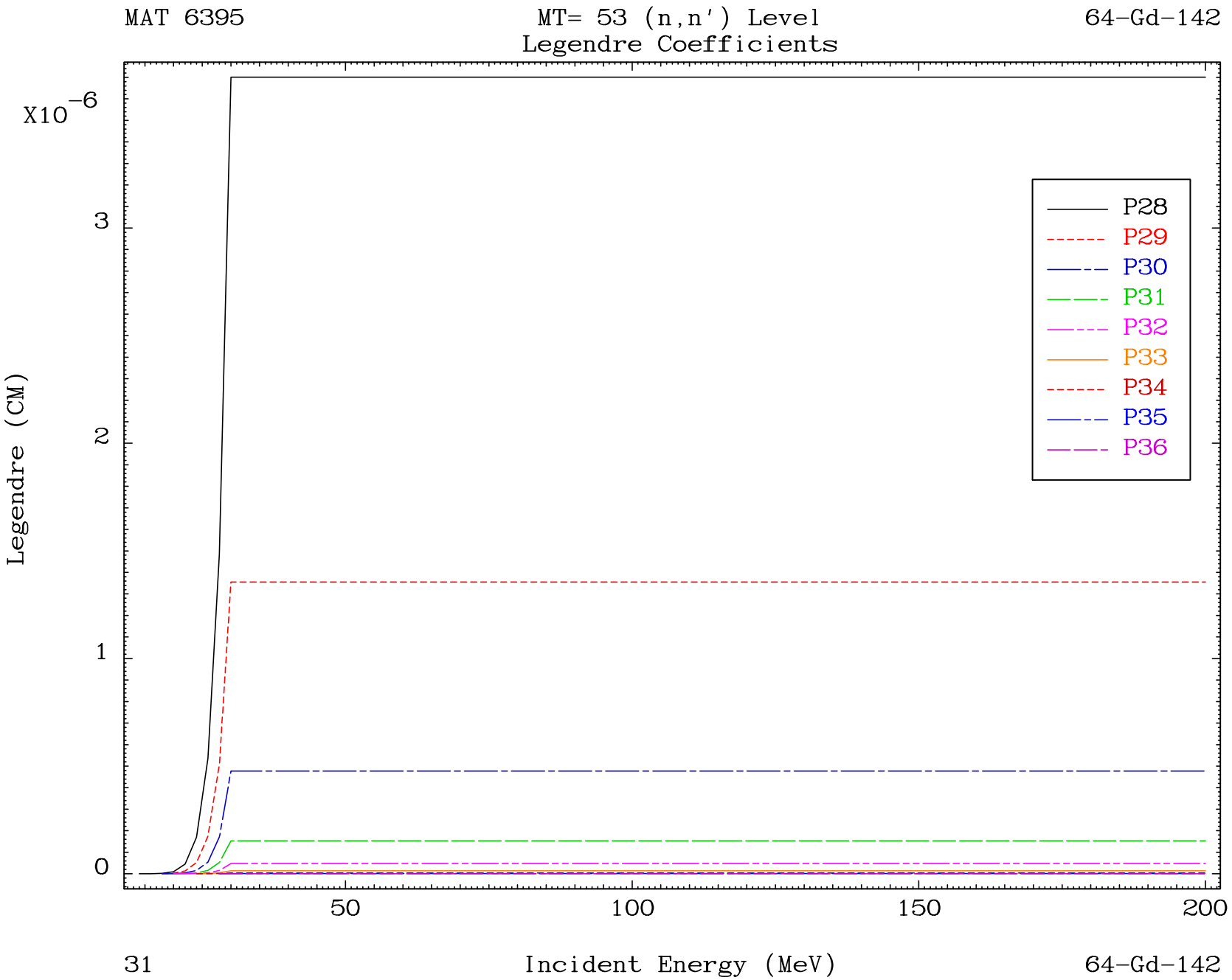

MAT 6395
MT= 52 (n,n') Level
Legendre Coefficients
64-Gd-142
0.003
0.002
0.001
0.000
Legendre (CM)
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
50
100
150
200
26
Incident Energy (MeV)
64-Gd-142

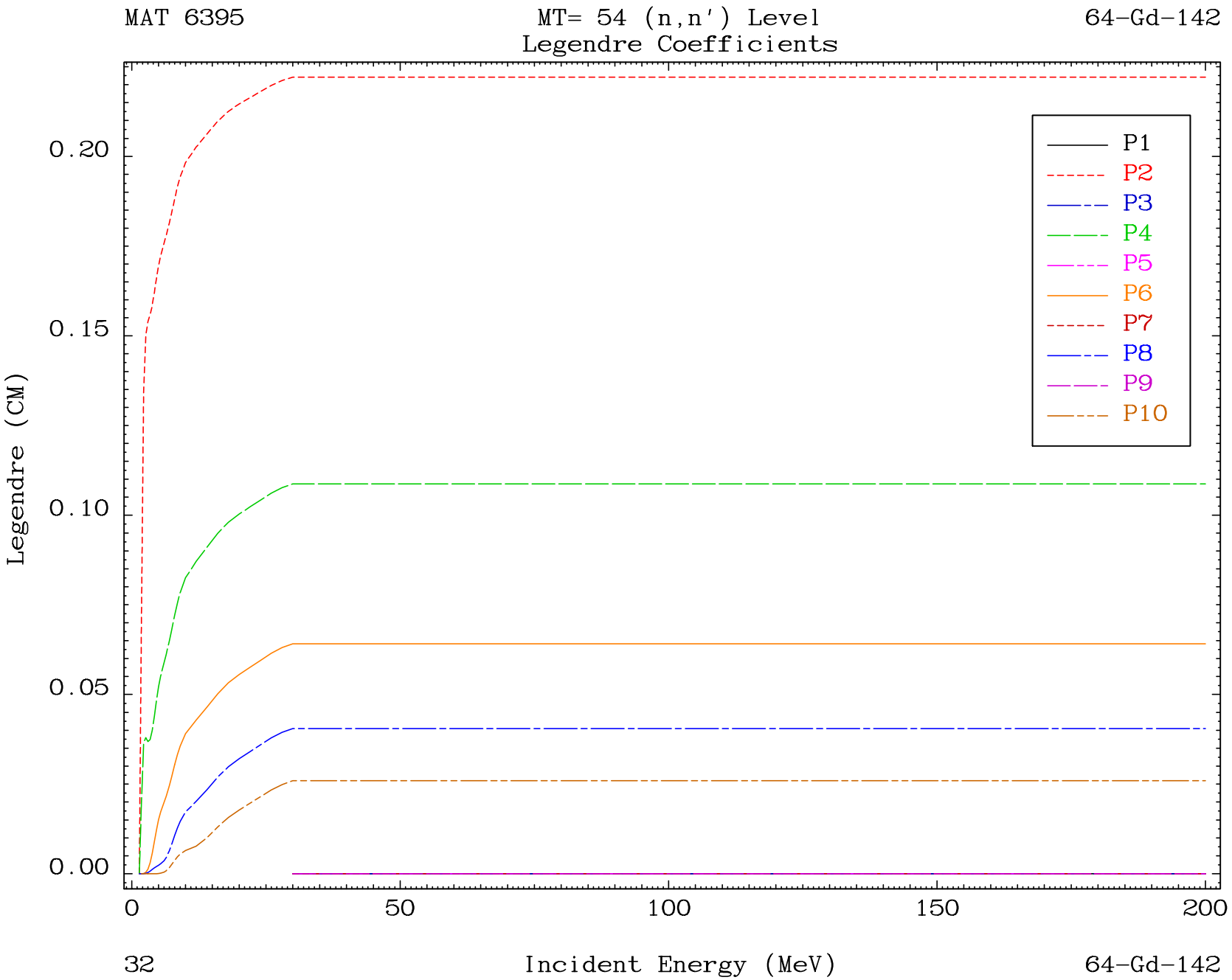

MAT 6395
MT= 52 (n,n') Level
Legendre Coefficients
64-Gd-142
0.0
X10^-6
-0.5
-1.0
-1.5
-2.0
-2.5
Legendre (CM)
50
100
150
200
27
Incident Energy (MeV)
64-Gd-142
P21
P22
P23
P24
P25
P26
P27
P28

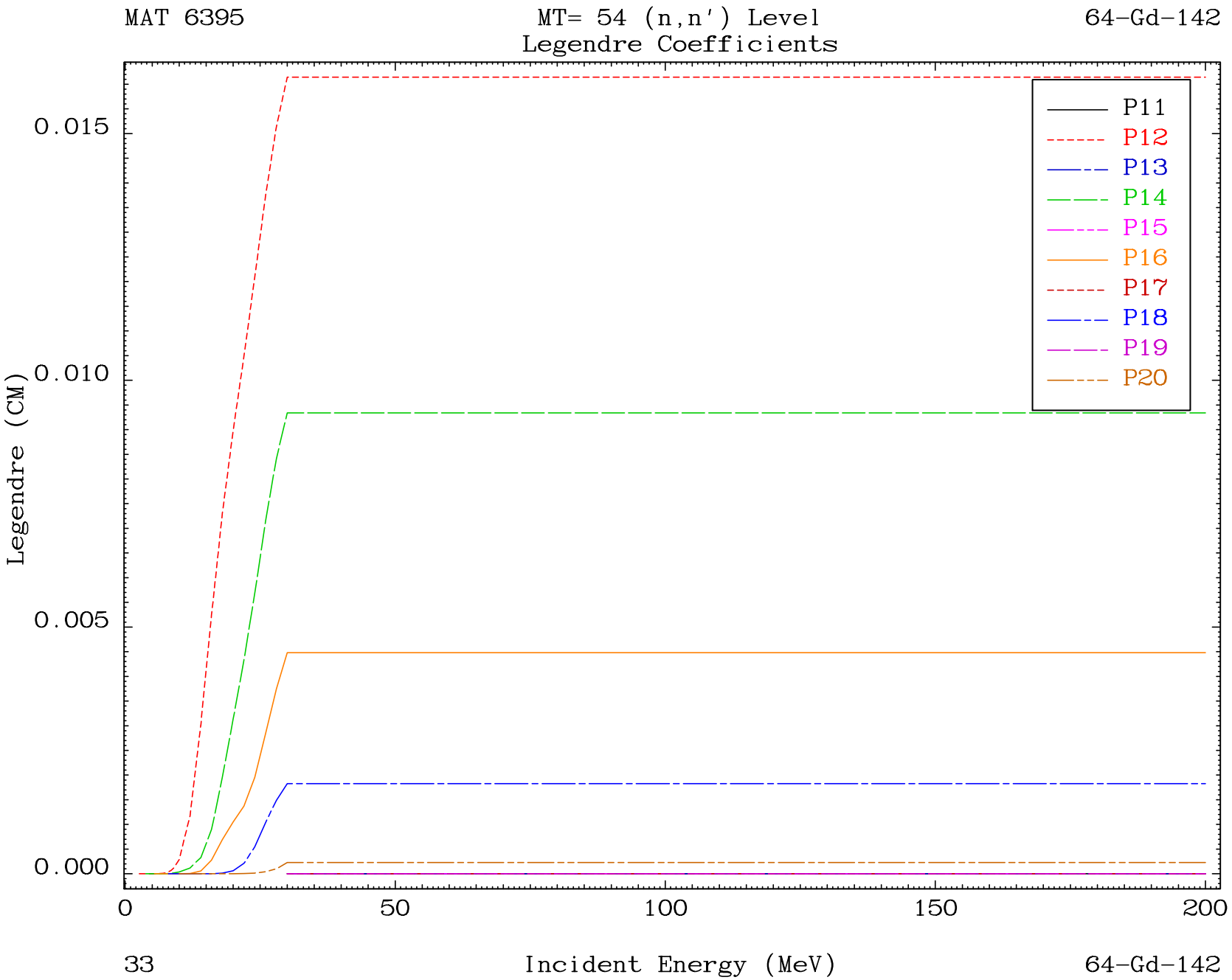

MAT 6395
MT= 53 (n,n') Level
Legendre Coefficients
64-Gd-142
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
28
Incident Energy (MeV)
64-Gd-142

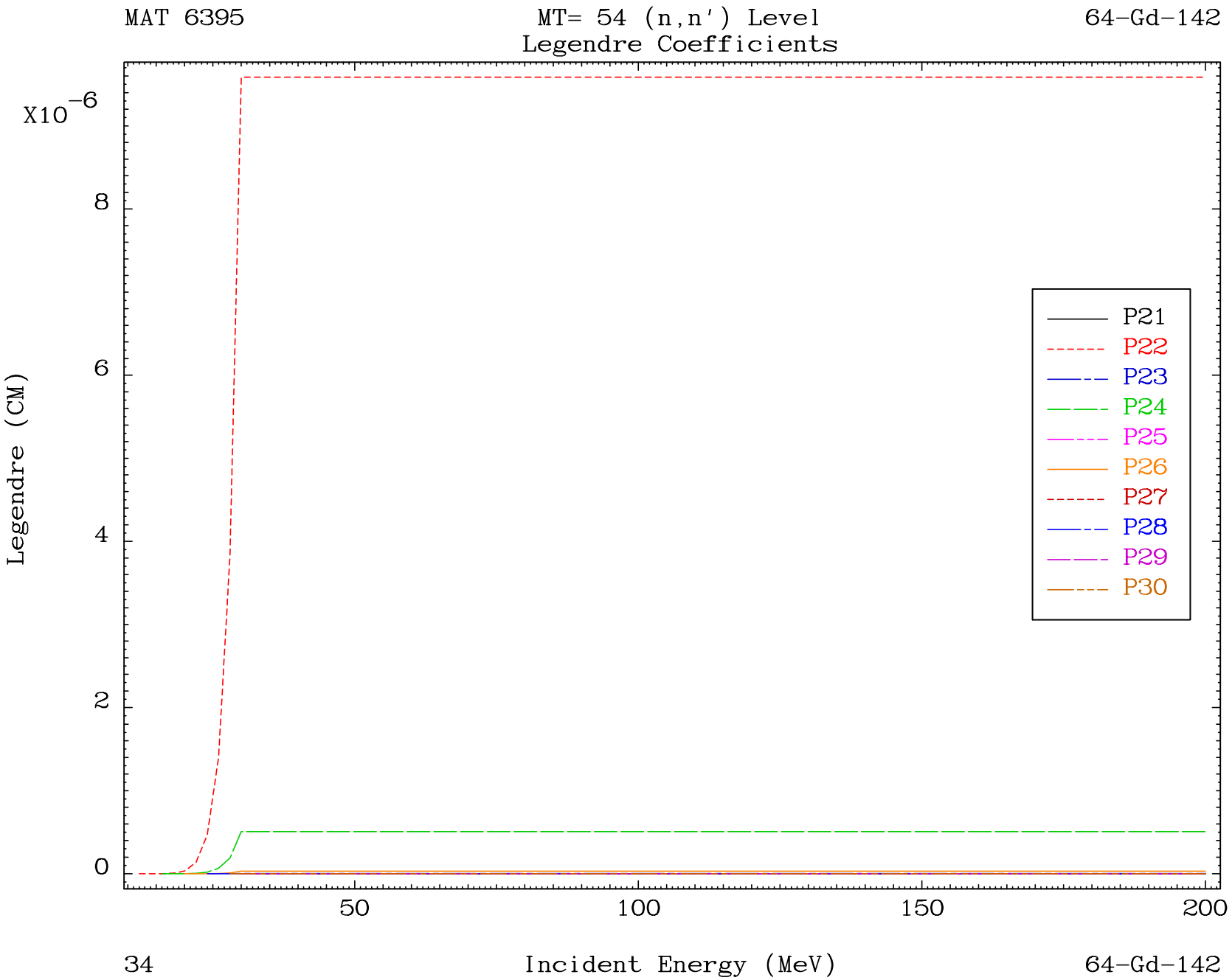

MAT 6395
MT= 53 (n,n') Level
Legendre Coefficients
64-Gd-142
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.03
0.02
0.01
0.00
Legendre (CM)
0
50
100
150
200
29
Incident Energy (MeV)
64-Gd-142

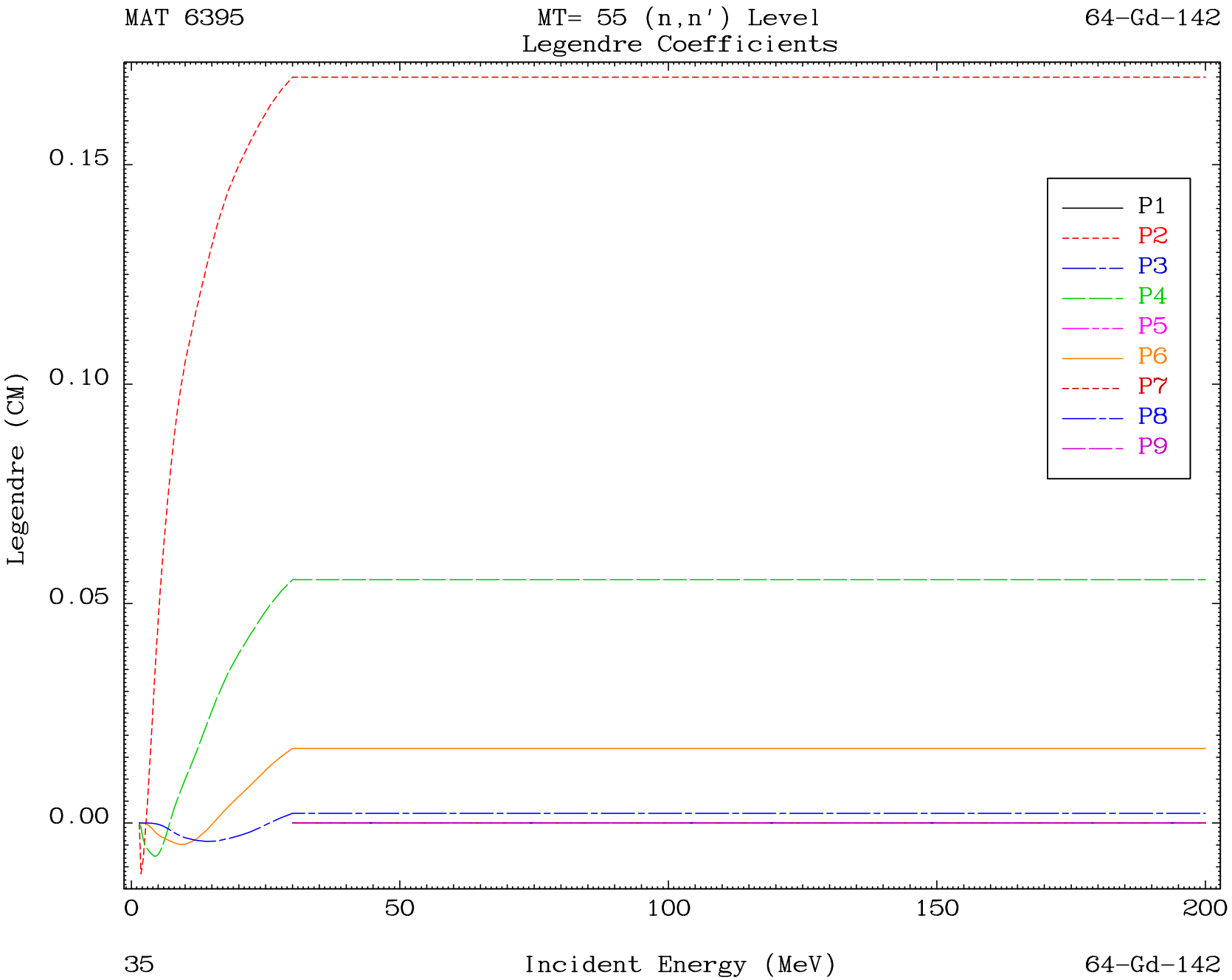

MAT 6395
MT= 53 (n,n') Level
Legendre Coefficients
64-Gd-142
X10^-3
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
30
Incident Energy (MeV)
64-Gd-142

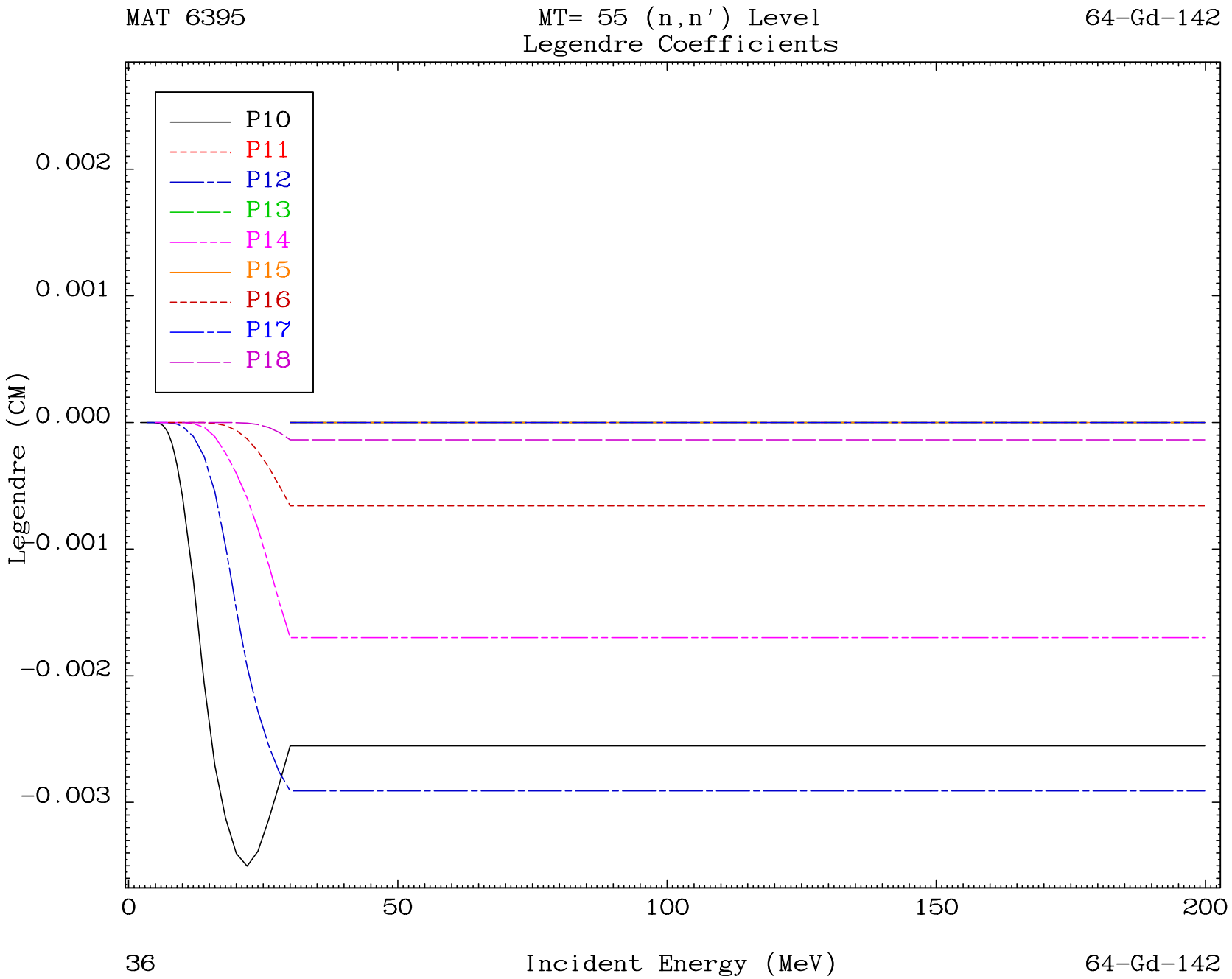

MAT 6395
MT= 53 (n,n') Level
Legendre Coefficients
64-Gd-142
X10^-6
3
2
1
0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
P35
P36
50
100
150
200
31
Incident Energy (MeV)
64-Gd-142

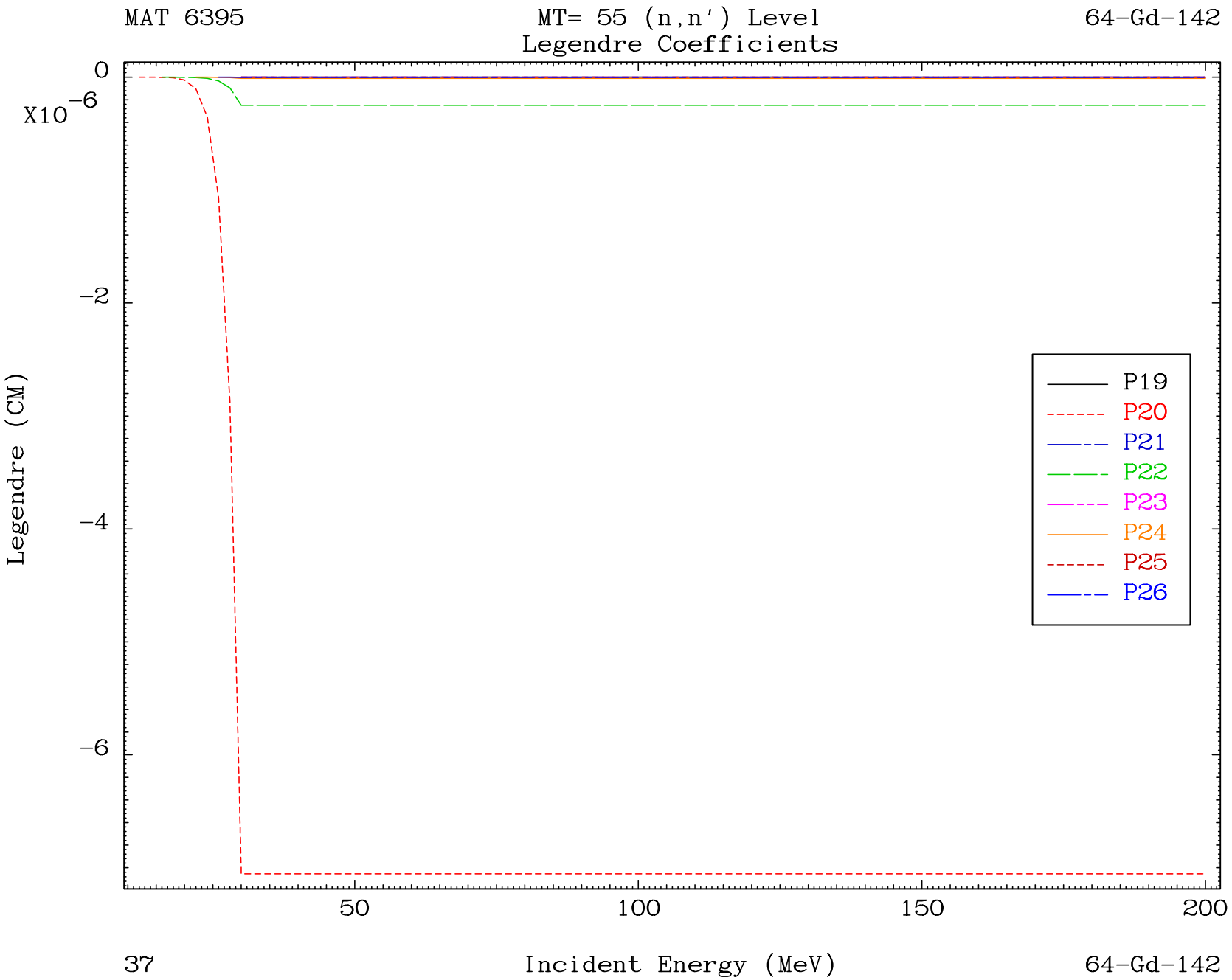

MAT 6395
MT= 54 (n,n') Level
Legendre Coefficients
64-Gd-142
Legendre (CM)
0.20
0.15
0.10
0.05
0.00
0
50
100
150
200
Incident Energy (MeV)
32
64-Gd-142
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10

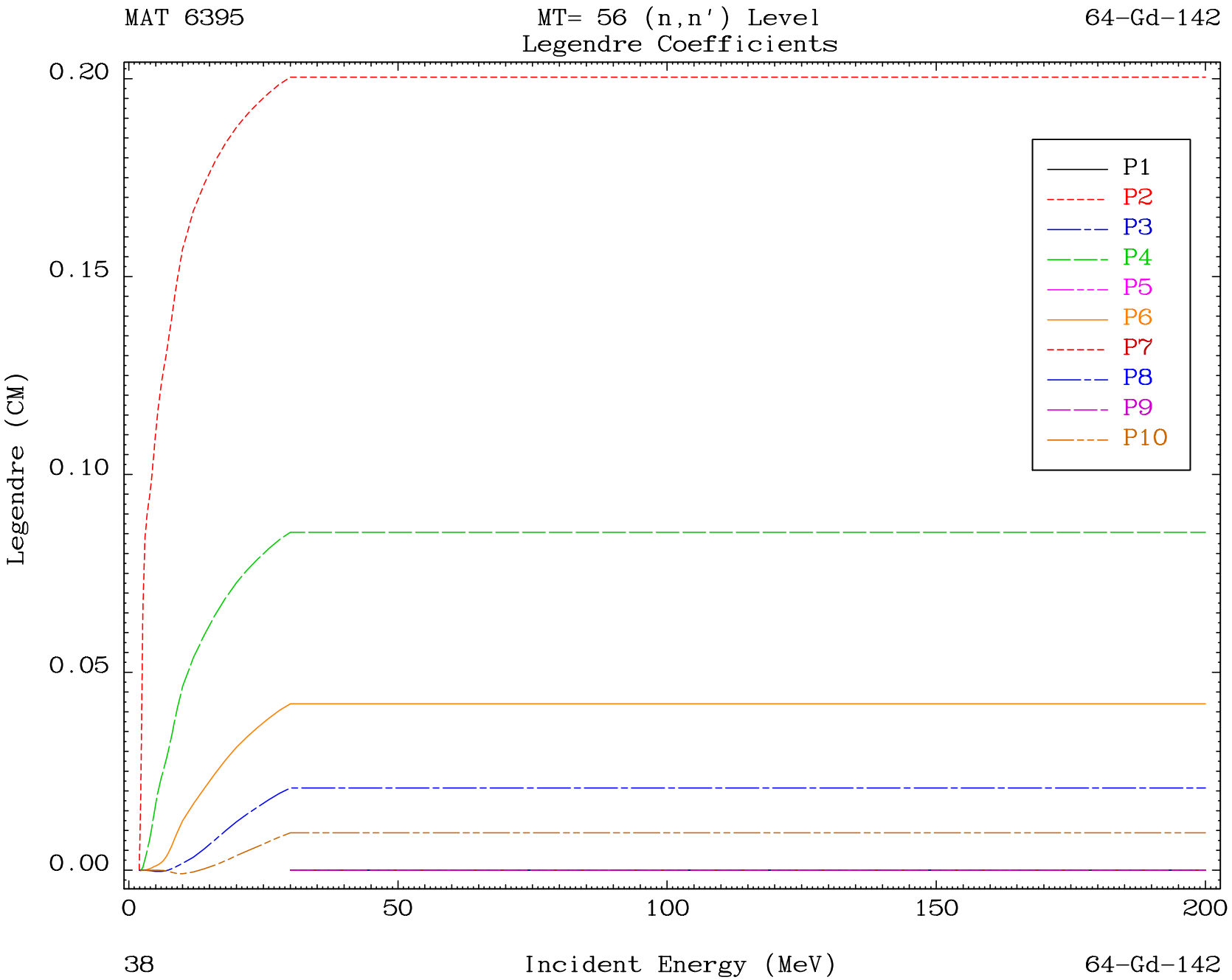

MAT 6395
MT= 54 (n,n') Level
Legendre Coefficients
64-Gd-142
0.015
0.010
0.005
0.000
Legendre (CM)
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0
50
100
150
200
33
Incident Energy (MeV)
64-Gd-142

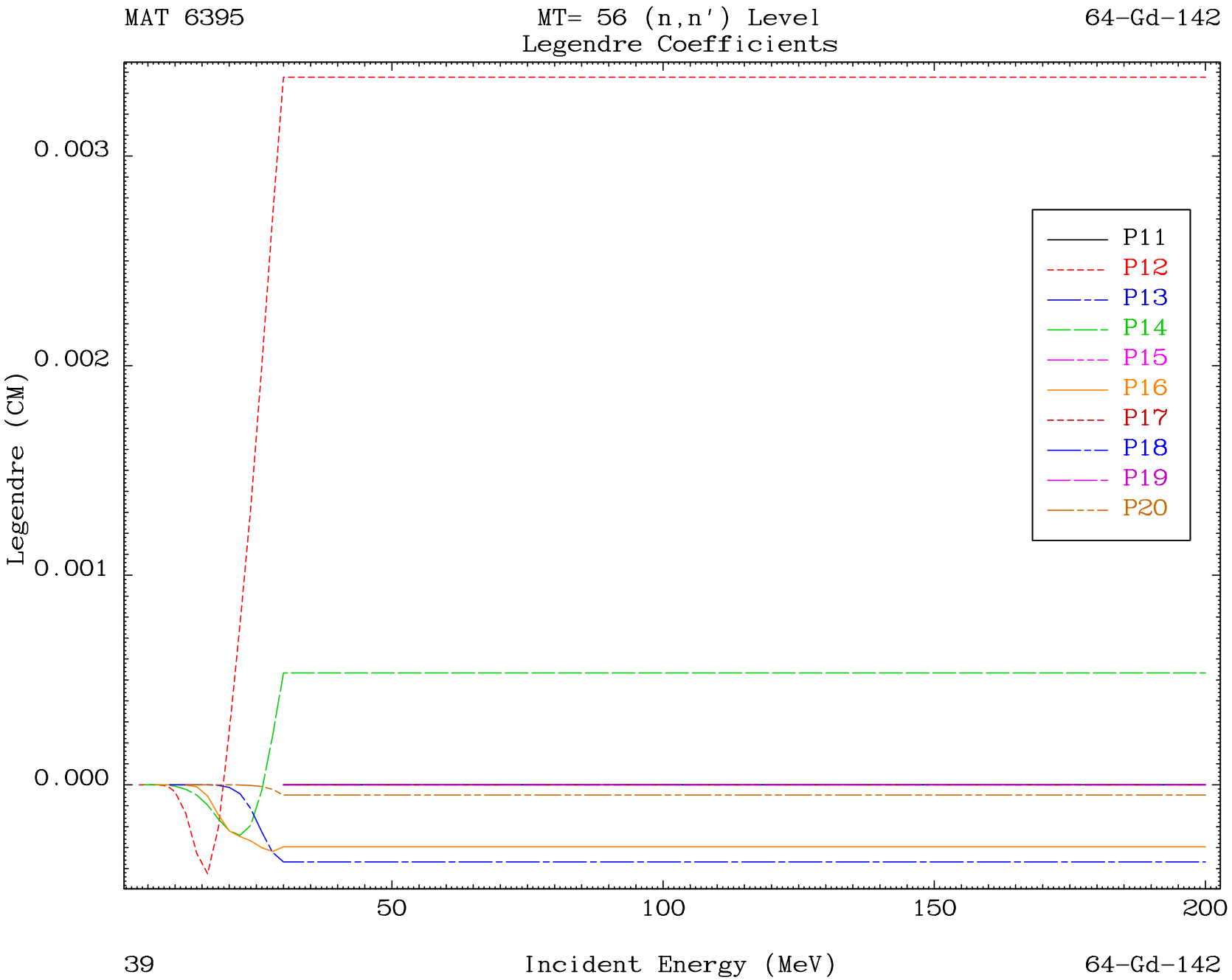

MAT 6395
MT= 54 (n,n') Level
Legendre Coefficients
64-Gd-142
X10^-6
8
6
4
2
0
Legendre (CM)
50
100
150
200
34
Incident Energy (MeV)
64-Gd-142
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30

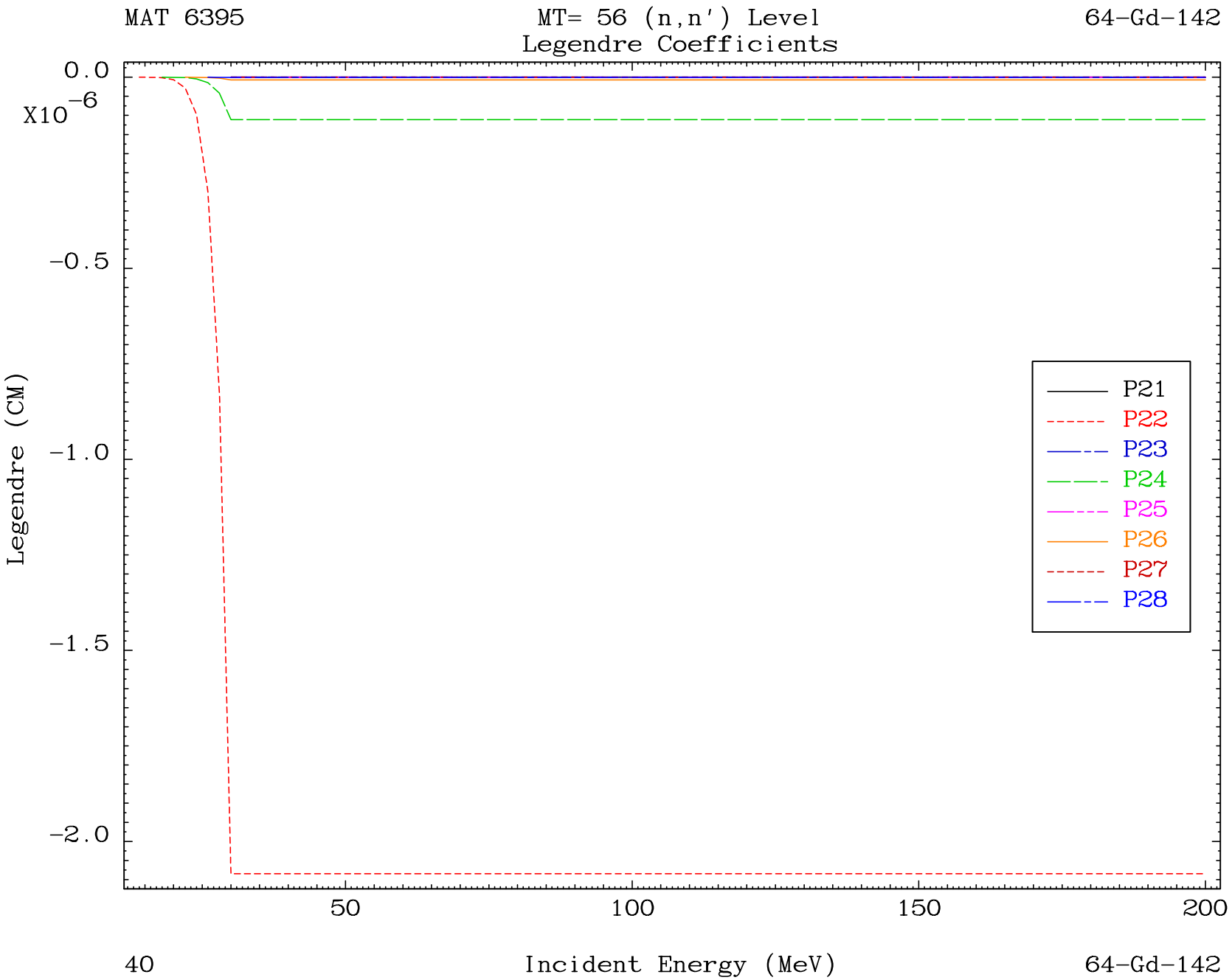

MAT 6395
MT= 55 (n,n') Level
Legendre Coefficients
64-Gd-142
0.15
0.10
0.05
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
35
Incident Energy (MeV)
64-Gd-142

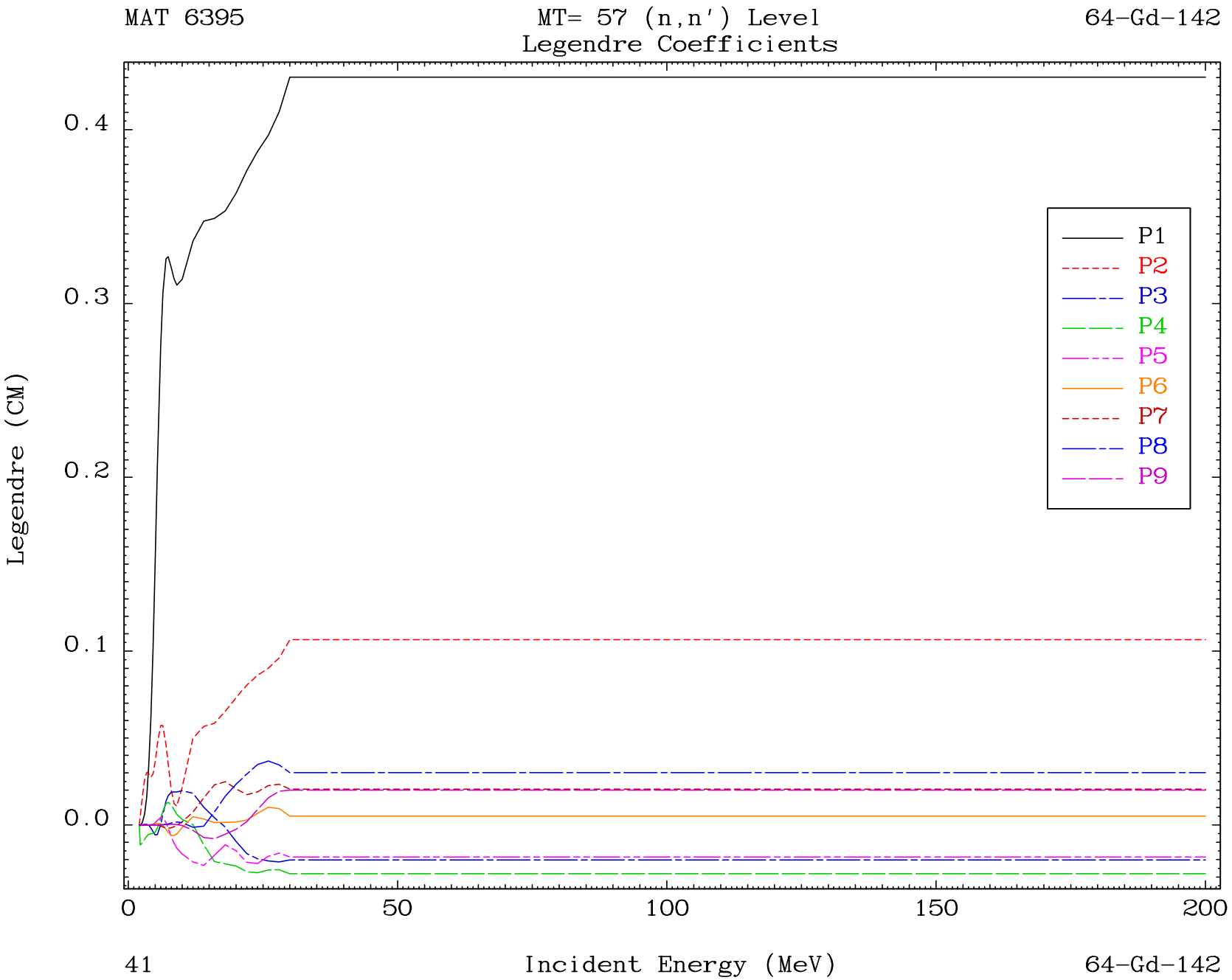

MAT 6395
MT= 55 (n,n') Level
Legendre Coefficients
64-Gd-142
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.002
0.001
0.000
-0.001
-0.002
-0.003
Legendre (CM)
0
50
100
150
200
36
Incident Energy (MeV)
64-Gd-142

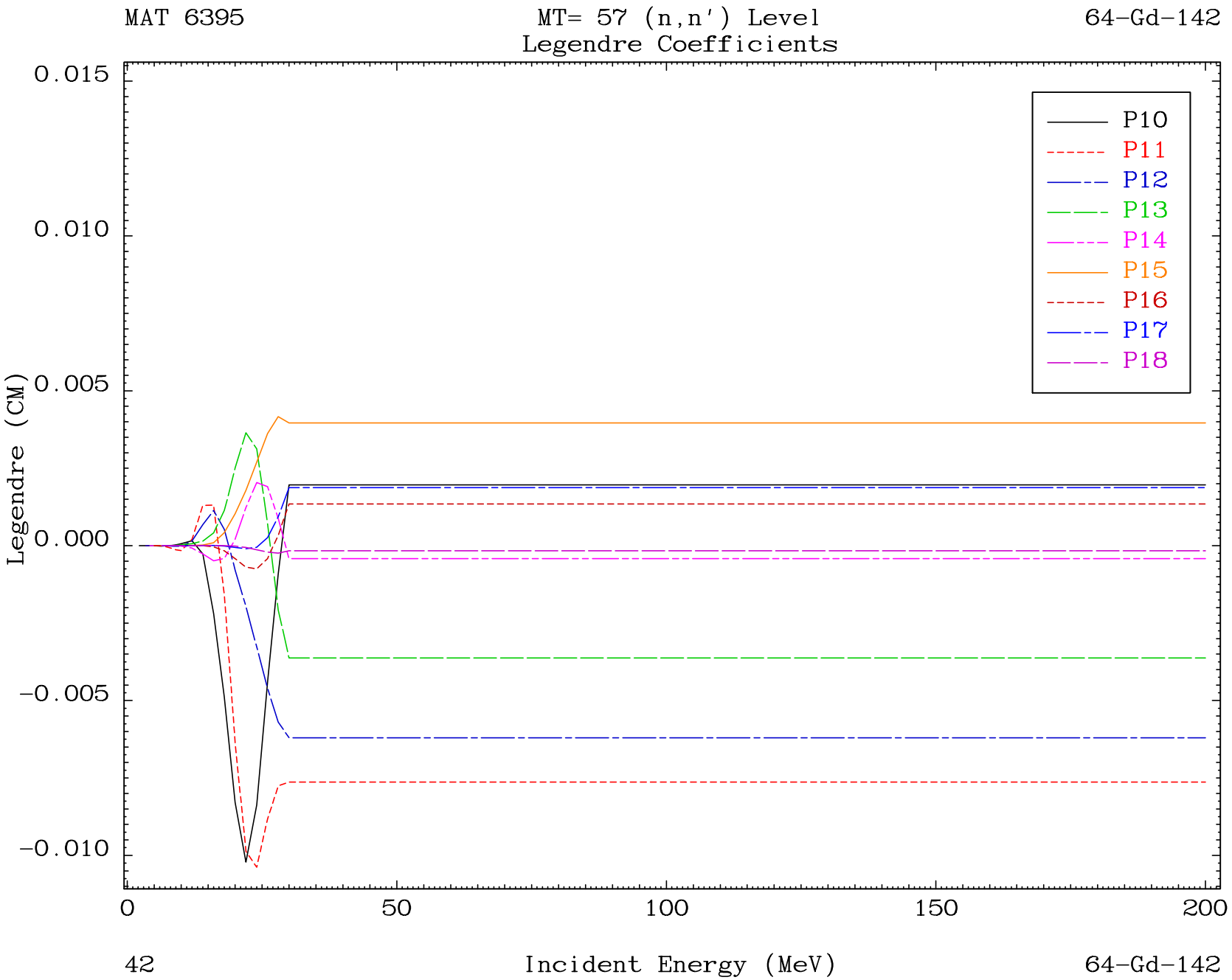

MAT 6395
MT= 55 (n,n') Level
Legendre Coefficients
64-Gd-142
0
X10 −6
−2
−4
−6
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
50
100
150
200
37
Incident Energy (MeV)
64-Gd-142

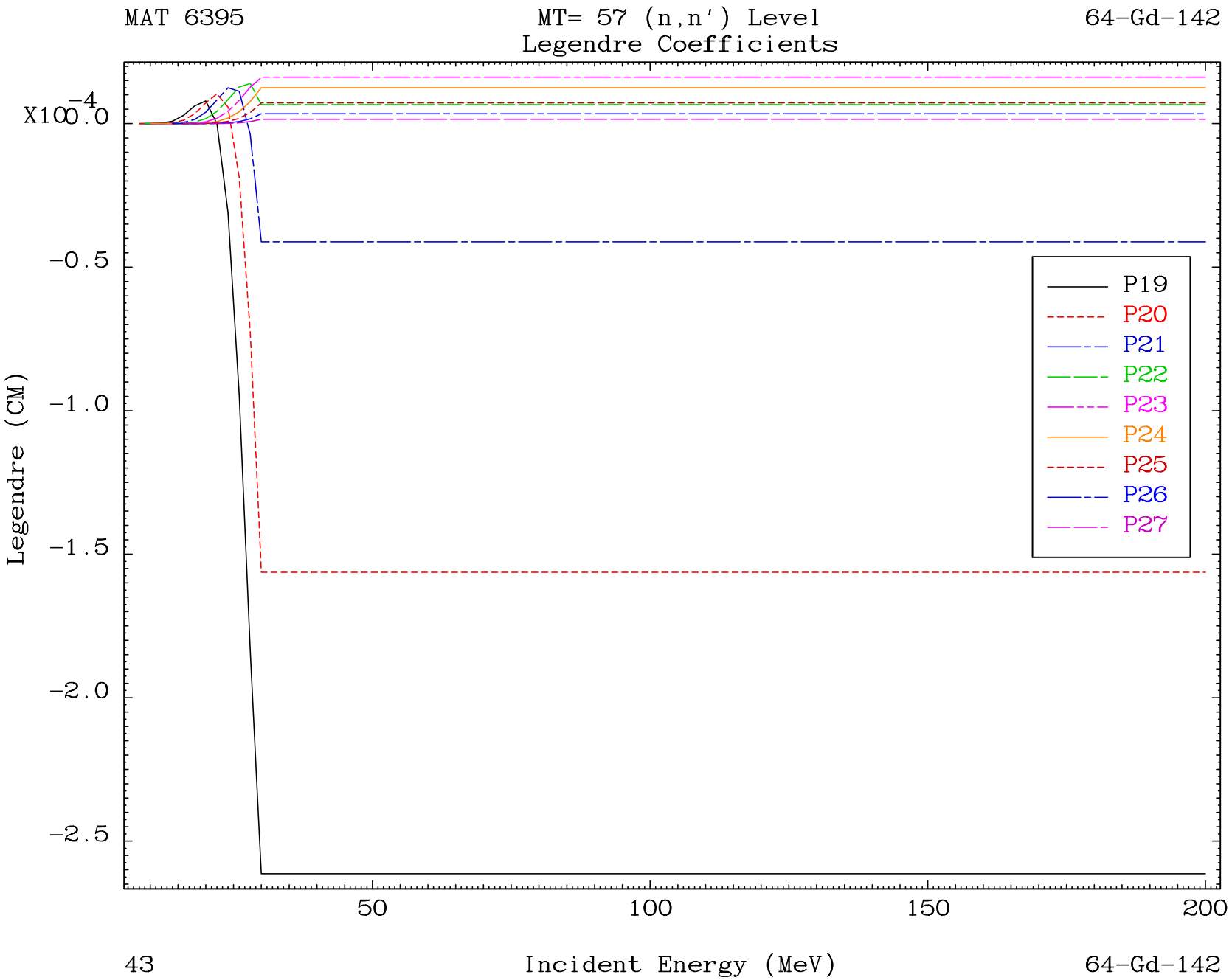

MAT 6395
MT= 56 (n,n') Level
Legendre Coefficients
64-Gd-142
0.20
0.15
0.10
0.05
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
0
50
100
150
200
38
Incident Energy (MeV)
64-Gd-142

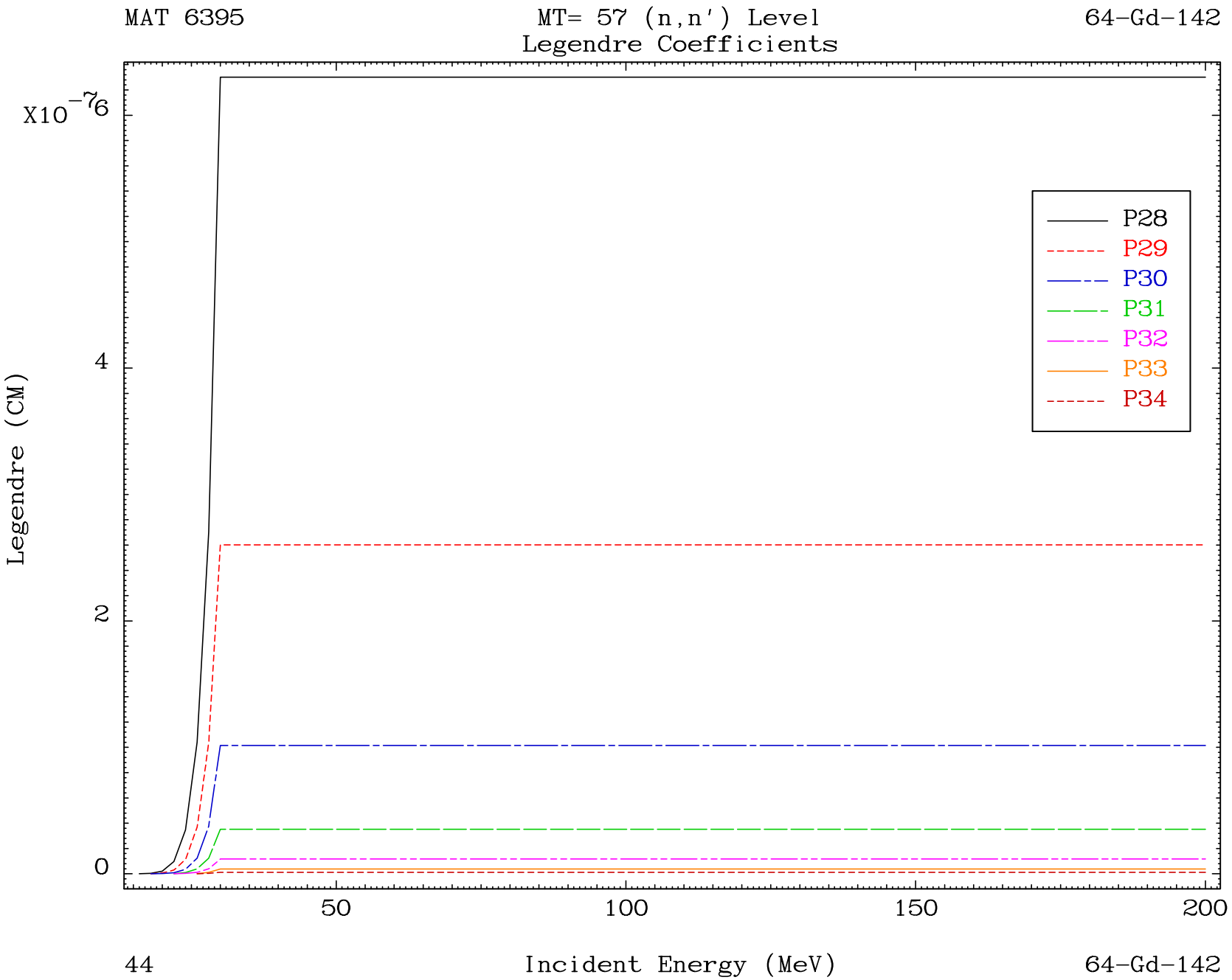

MAT 6395
MT= 56 (n,n') Level
Legendre Coefficients
64-Gd-142
0.003
0.002
0.001
0.000
Legendre (CM)
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
50
100
150
200
39
Incident Energy (MeV)
64-Gd-142

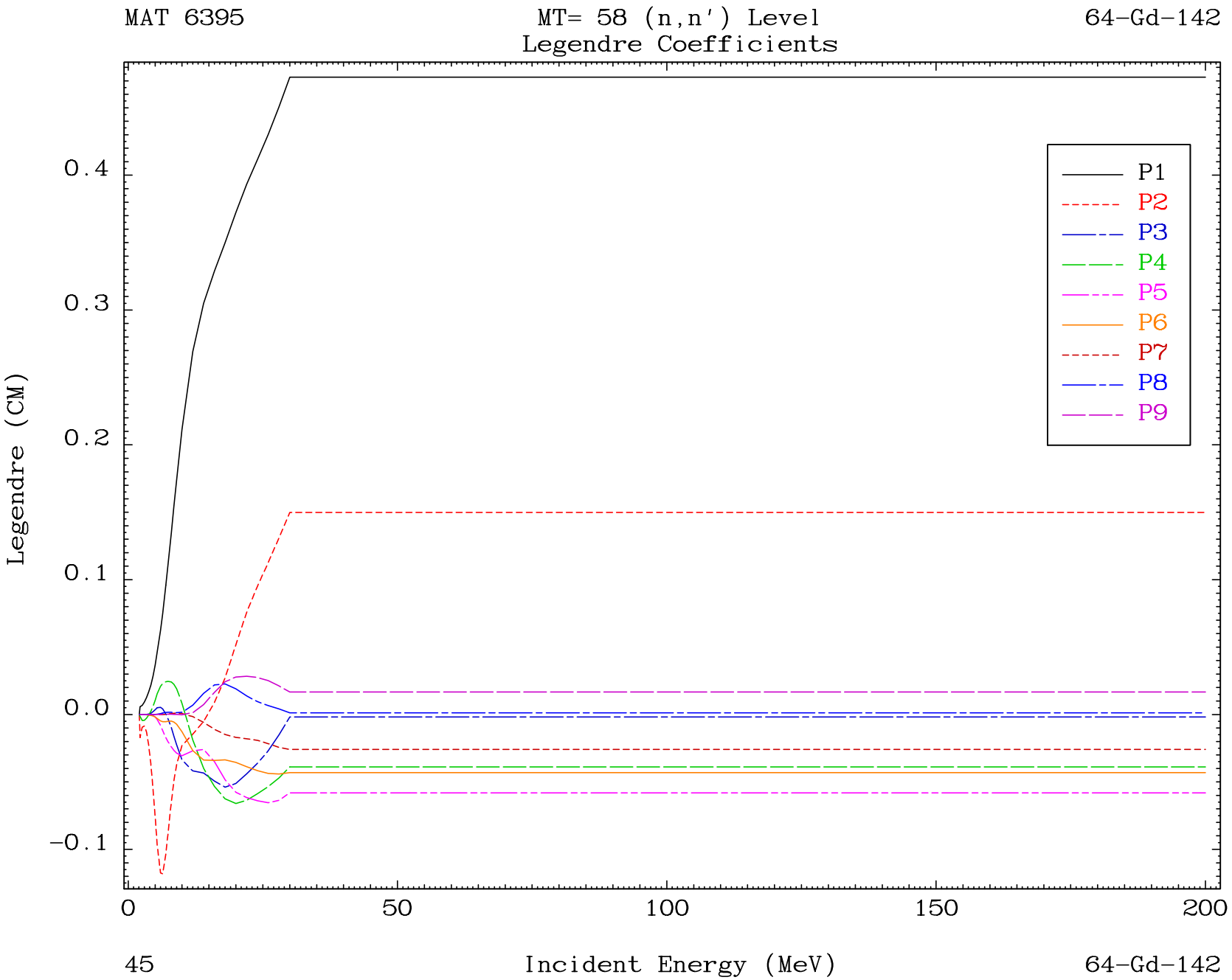

MAT 6395
MT= 56 (n,n') Level
Legendre Coefficients
64-Gd-142
0.0
X10^-6
-0.5
-1.0
-1.5
-2.0
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
40
50
100
150
200
Incident Energy (MeV)
64-Gd-142

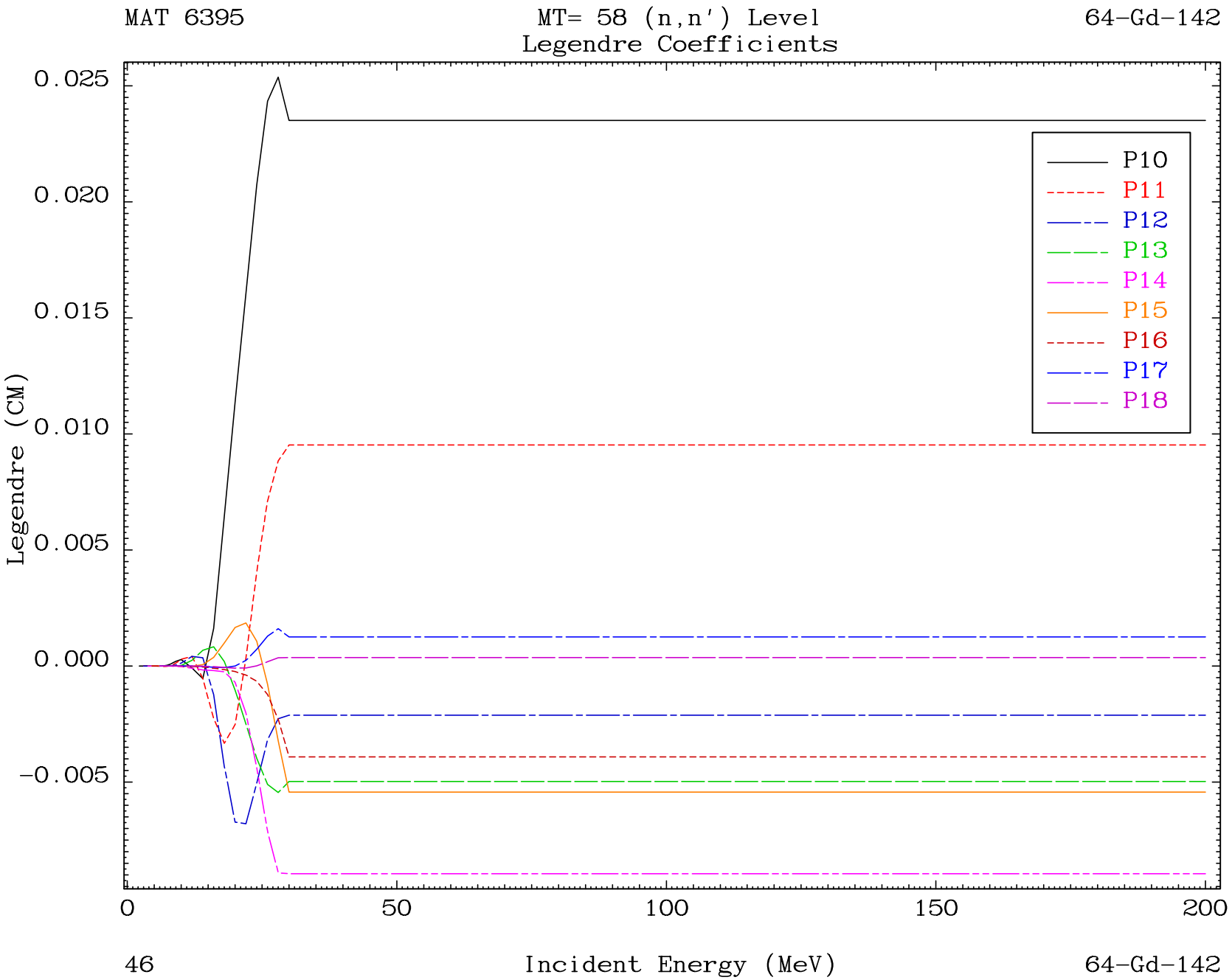

MAT 6395
MT= 57 (n,n') Level
Legendre Coefficients
64-Gd-142
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
41
Incident Energy (MeV)
64-Gd-142

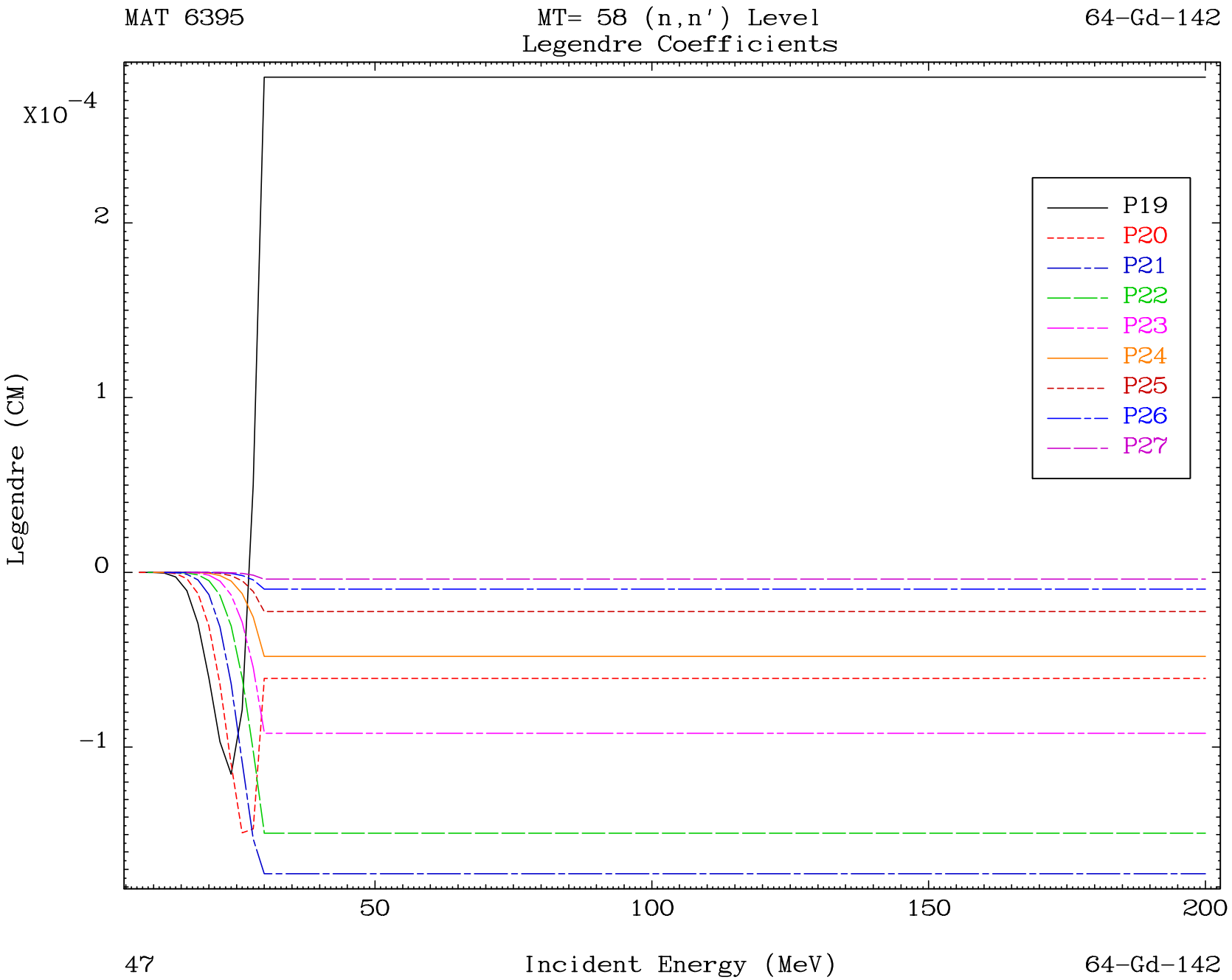

MAT 6395
MT= 57 (n,n') Level
Legendre Coefficients
64-Gd-142
0.015
0.010
0.005
0.000
-0.005
-0.010
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
42
Incident Energy (MeV)
64-Gd-142

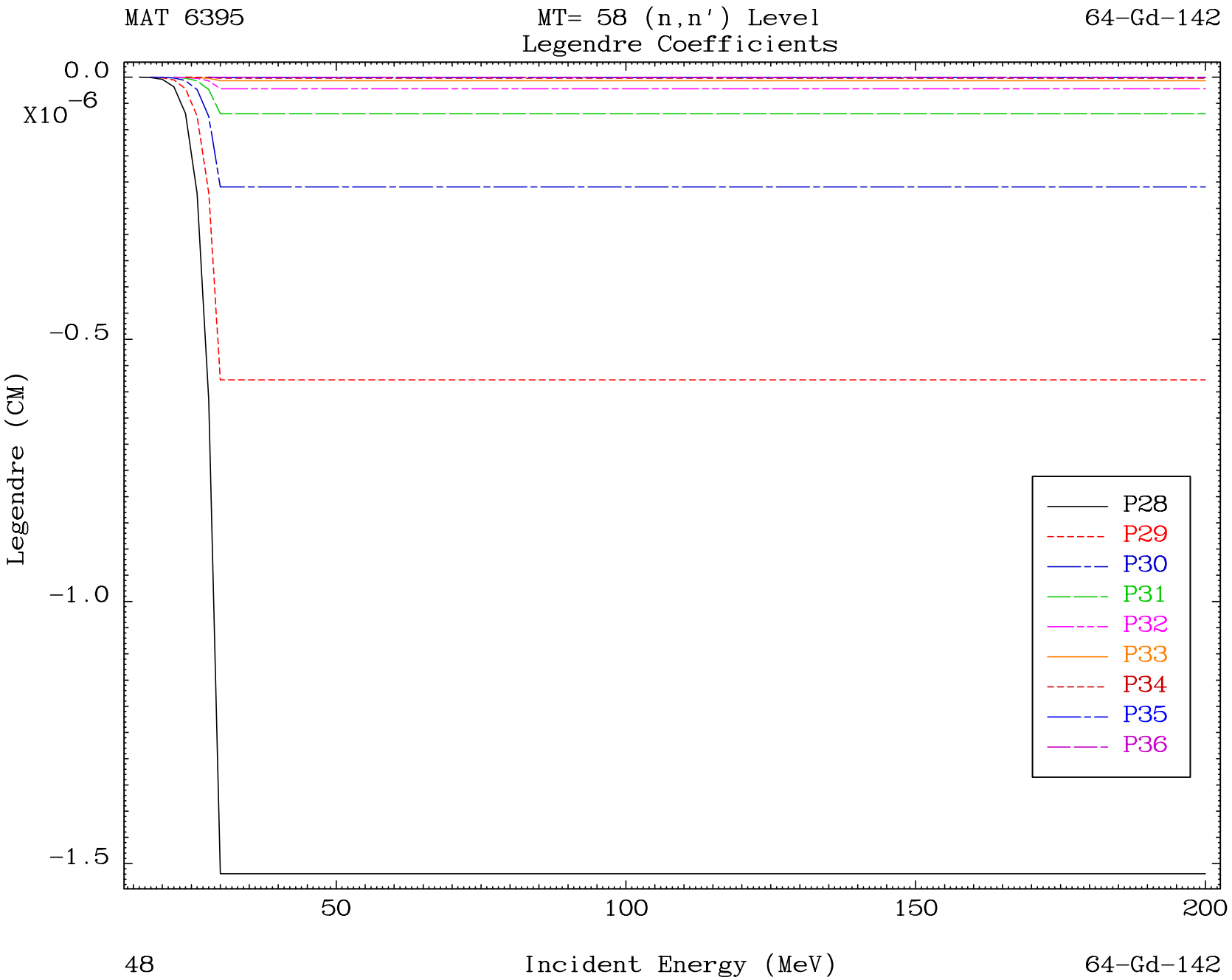

MAT 6395
MT= 57 (n,n') Level
Legendre Coefficients
64-Gd-142
X10^-4
0.0
-0.5
-1.0
-1.5
-2.0
-2.5
Legendre (CM)
50
100
150
200
Incident Energy (MeV)
P19
P20
P21
P22
P23
P24
P25
P26
P27
43
64-Gd-142

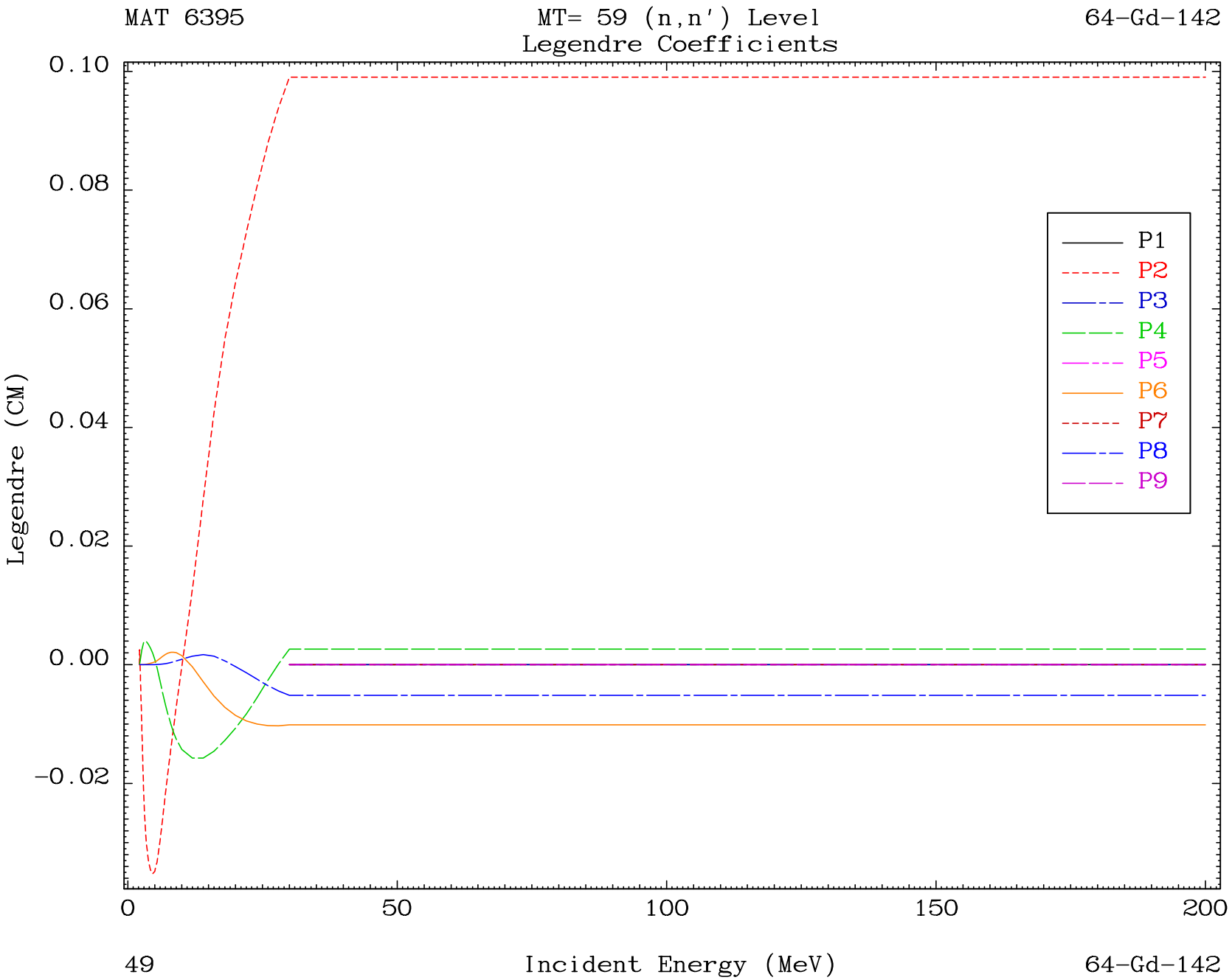

MAT 6395
MT= 57 (n,n') Level
Legendre Coefficients
64-Gd-142
X10^-7
6
4
2
0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
44
Incident Energy (MeV)
64-Gd-142

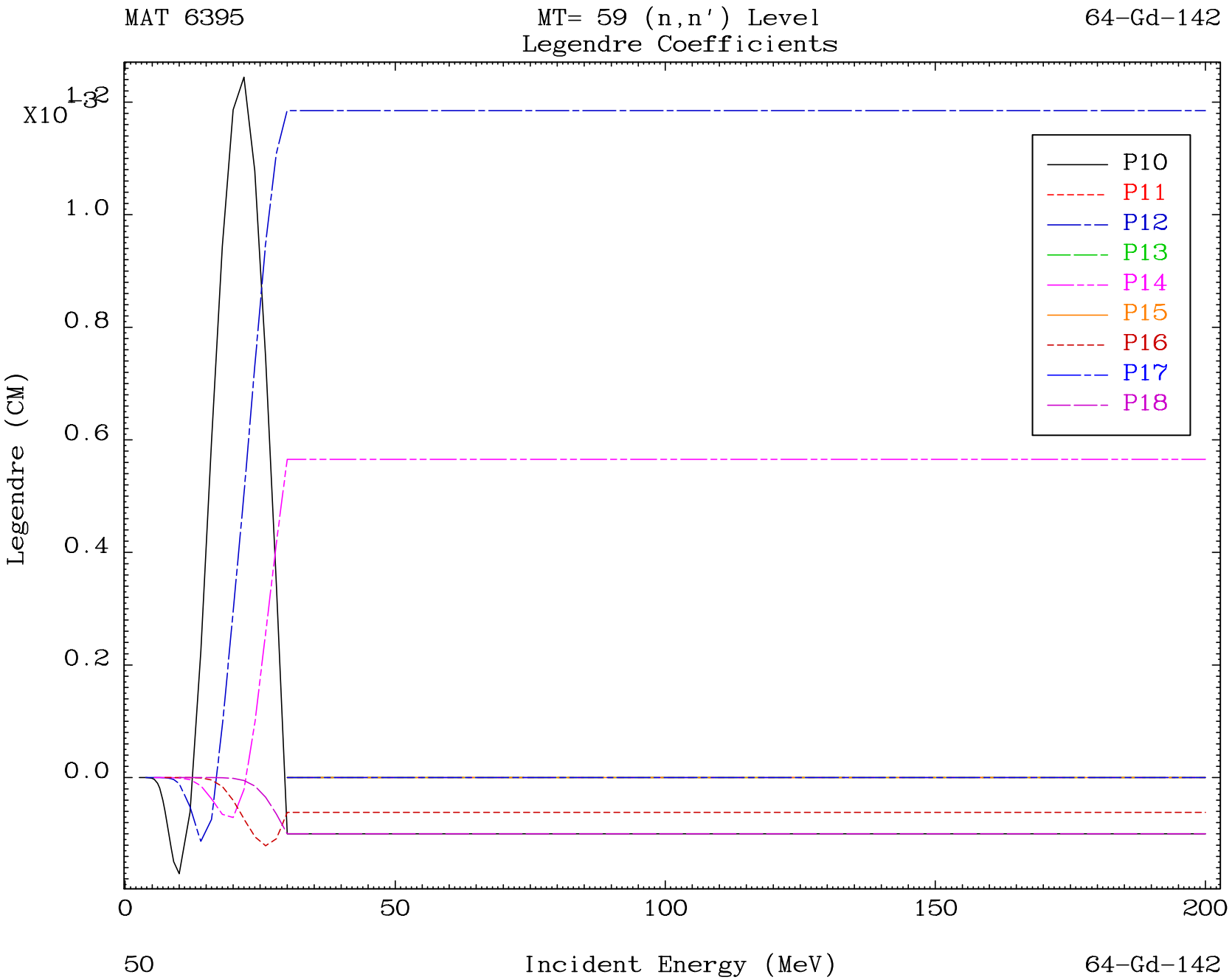

MAT 6395
MT= 58 (n,n') Level
Legendre Coefficients
64-Gd-142
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
-0.1
0
50
100
150
200
45
Incident Energy (MeV)
64-Gd-142
P1
P2
P3
P4
P5
P6
P7
P8
P9

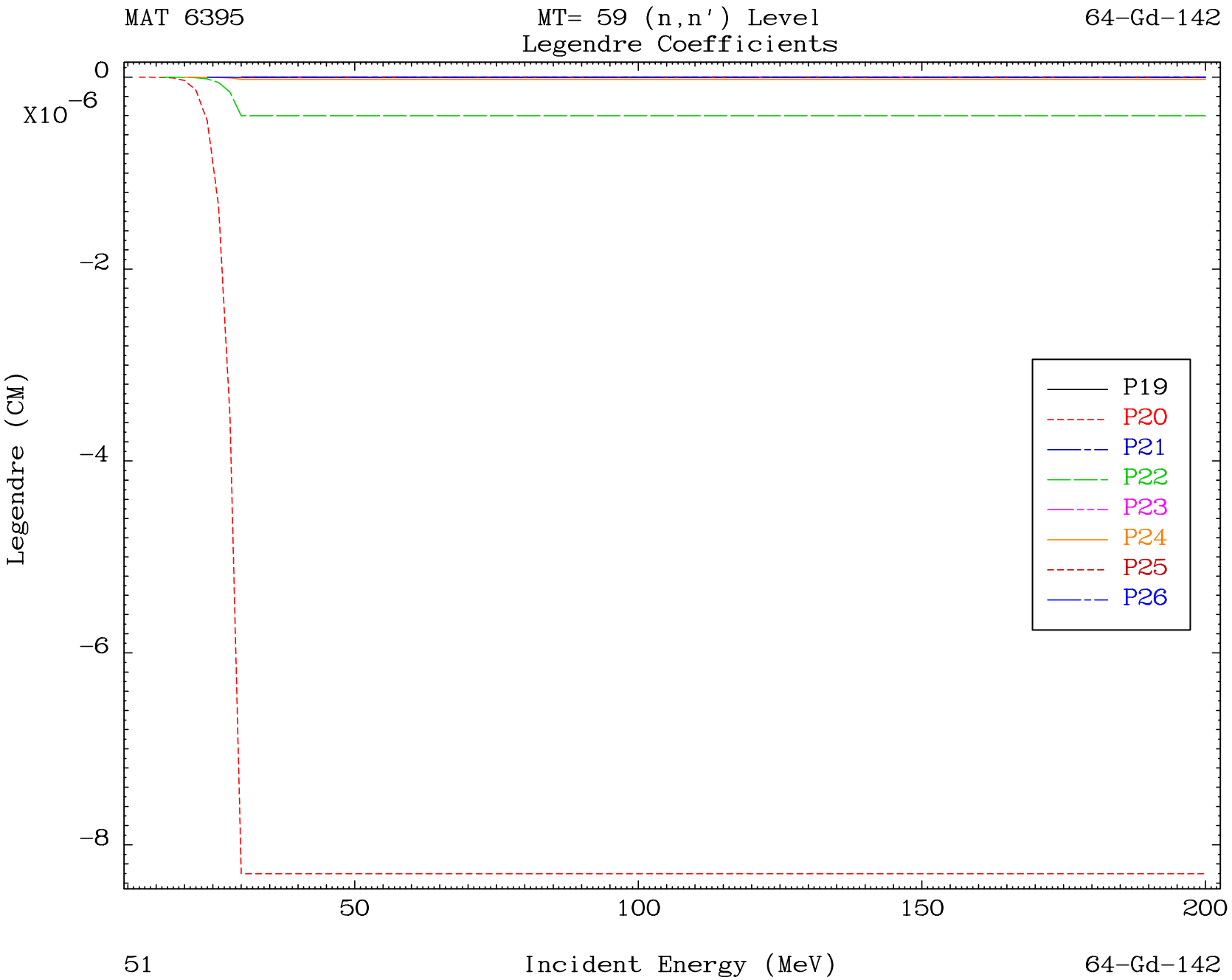

MAT 6395
MT= 58 (n,n') Level
Legendre Coefficients
64-Gd-142
0.025
0.020
0.015
0.010
0.005
0.000
-0.005
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
46
Incident Energy (MeV)
64-Gd-142

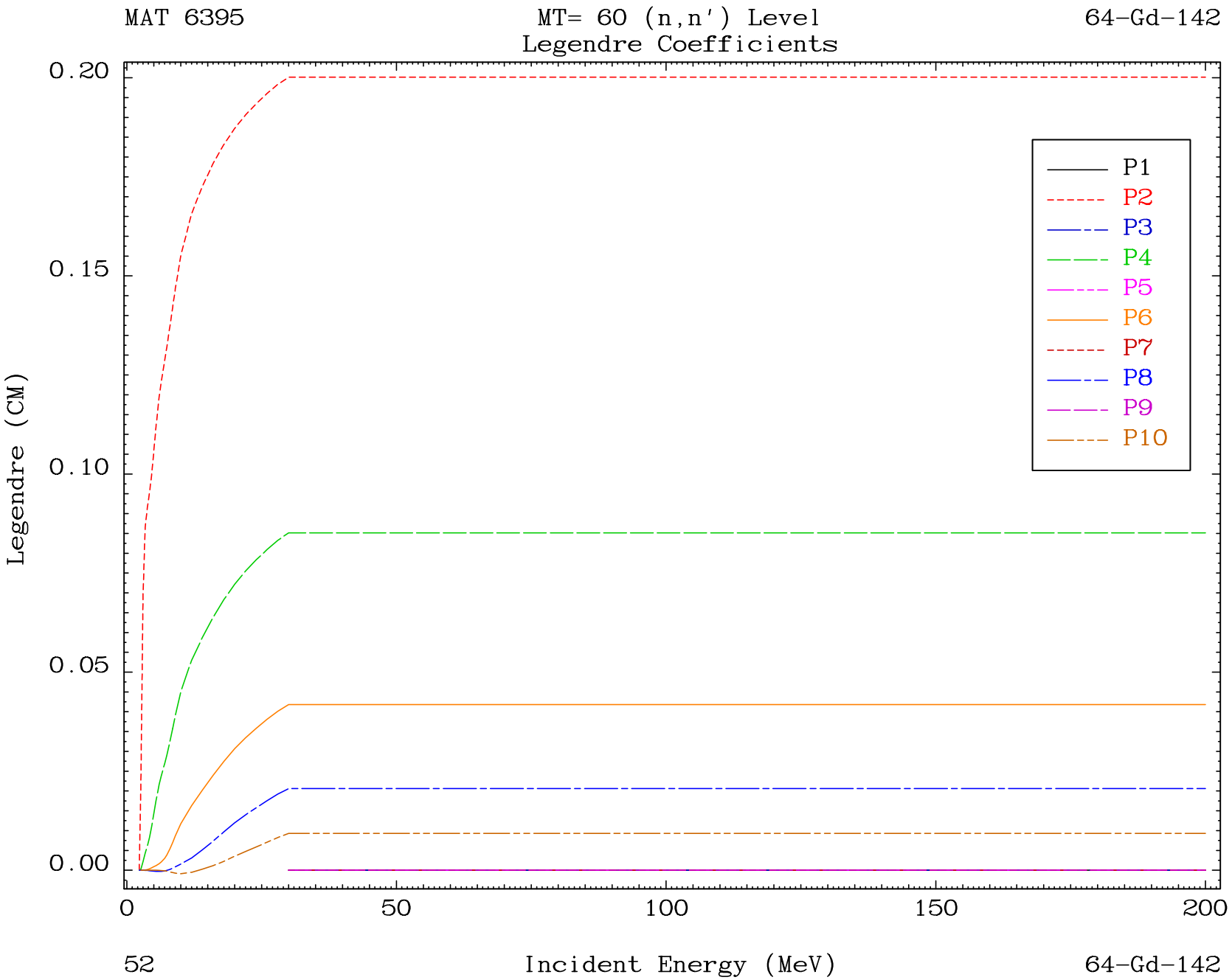

MAT 6395
MT= 58 (n,n') Level
Legendre Coefficients
64-Gd-142
X10^-4
2
1
0
-1
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
47
Incident Energy (MeV)
64-Gd-142

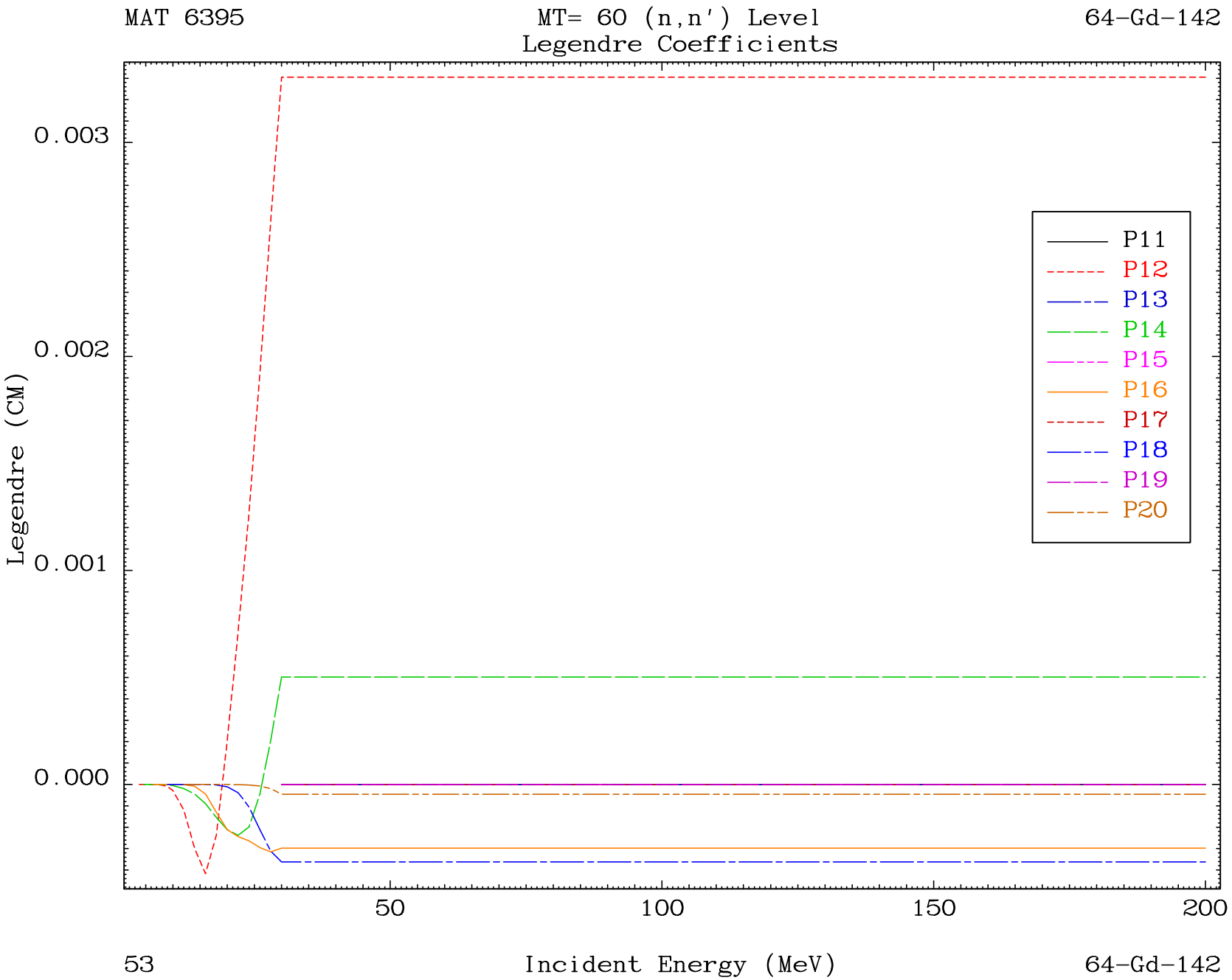

MAT 6395
MT= 58 (n,n') Level
Legendre Coefficients
64-Gd-142
0.0
X10^-6
-0.5
-1.0
-1.5
Legendre (CM)
50
100
150
200
48
Incident Energy (MeV)
64-Gd-142
P28
P29
P30
P31
P32
P33
P34
P35
P36

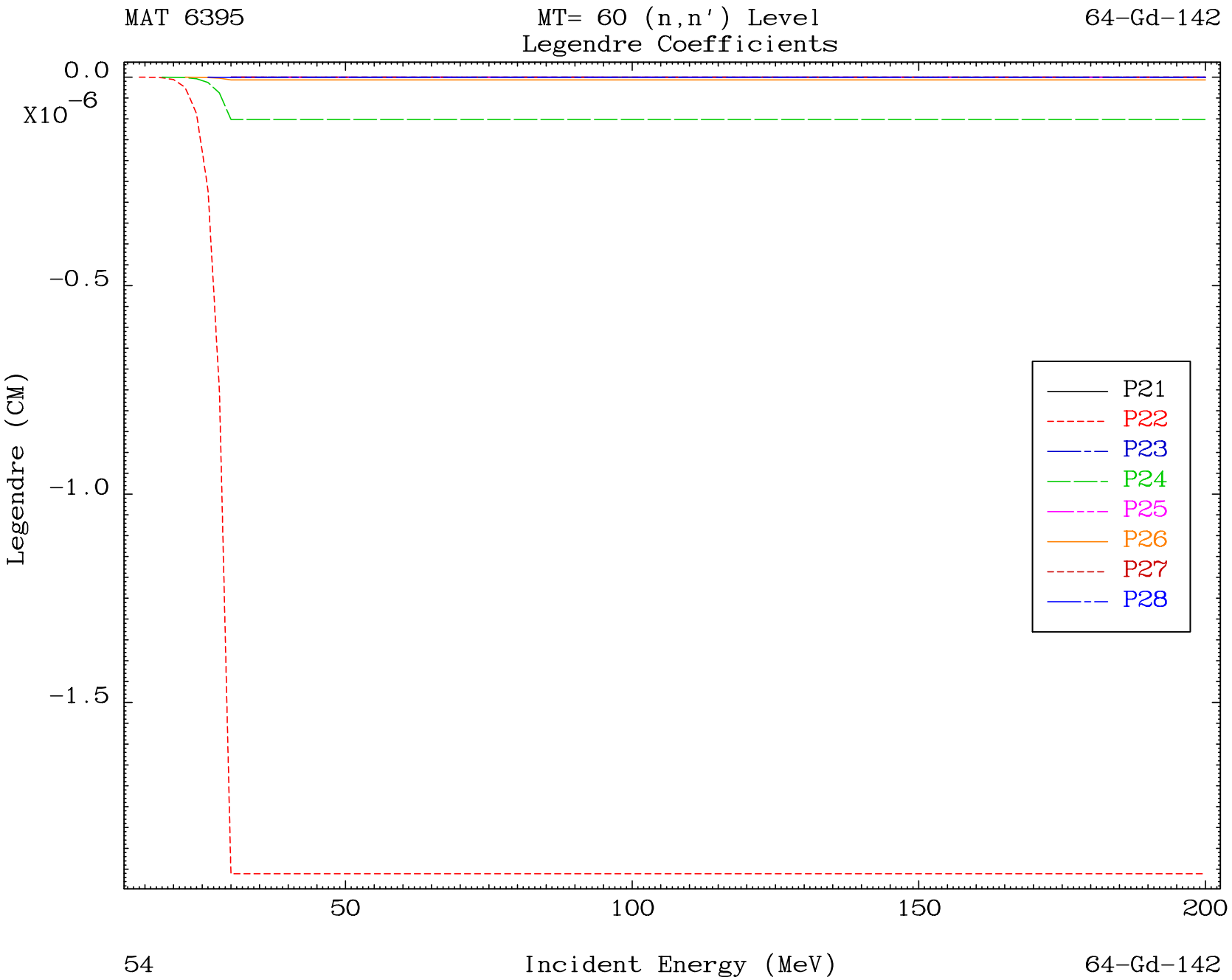

MAT 6395
MT= 59 (n,n') Level
Legendre Coefficients
64-Gd-142
0.10
0.08
0.06
0.04
0.02
0.00
-0.02
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
49
Incident Energy (MeV)
64-Gd-142

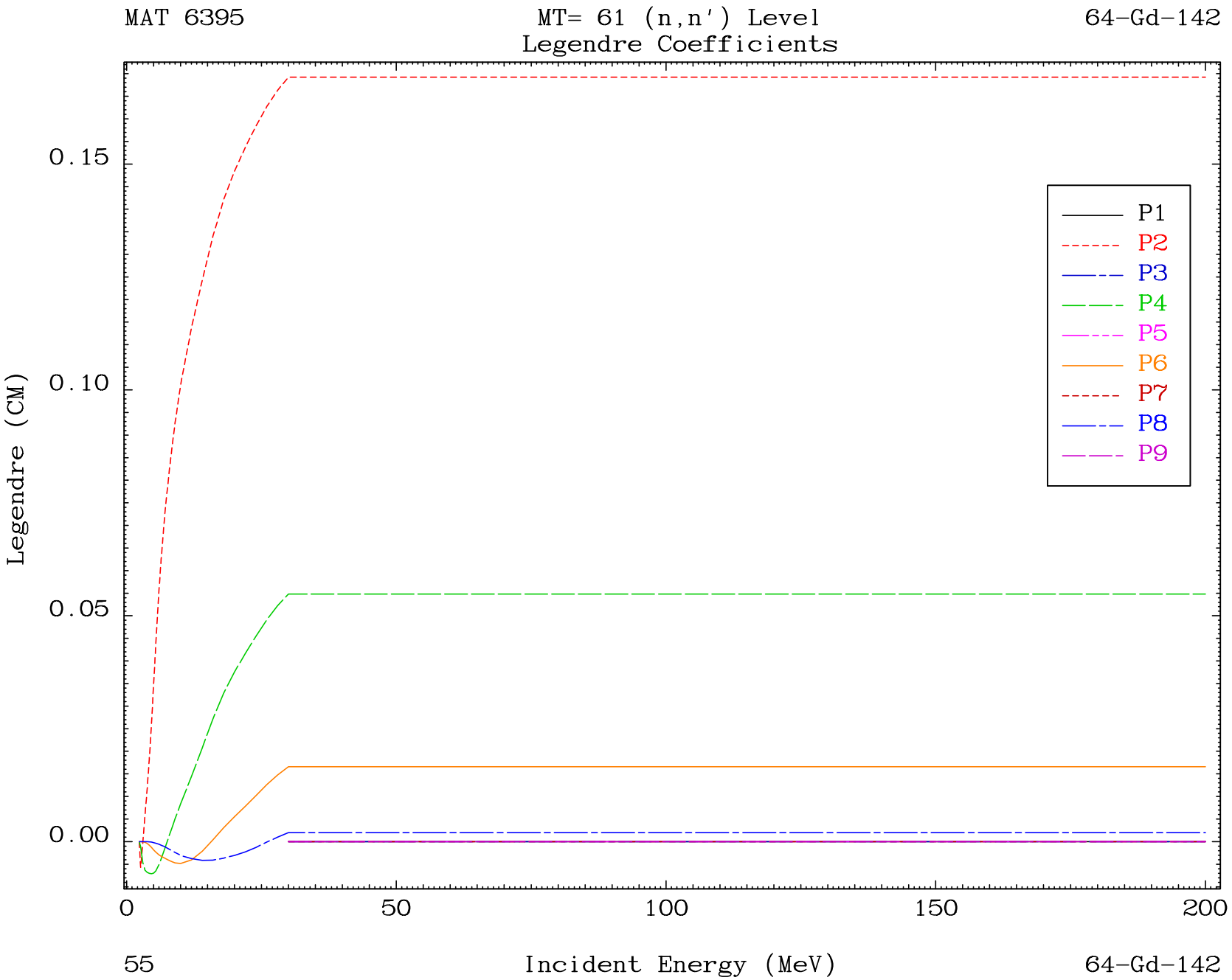

MAT 6395
MT= 59 (n,n') Level
Legendre Coefficients
64-Gd-142
X10-3
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
50
Incident Energy (MeV)
64-Gd-142

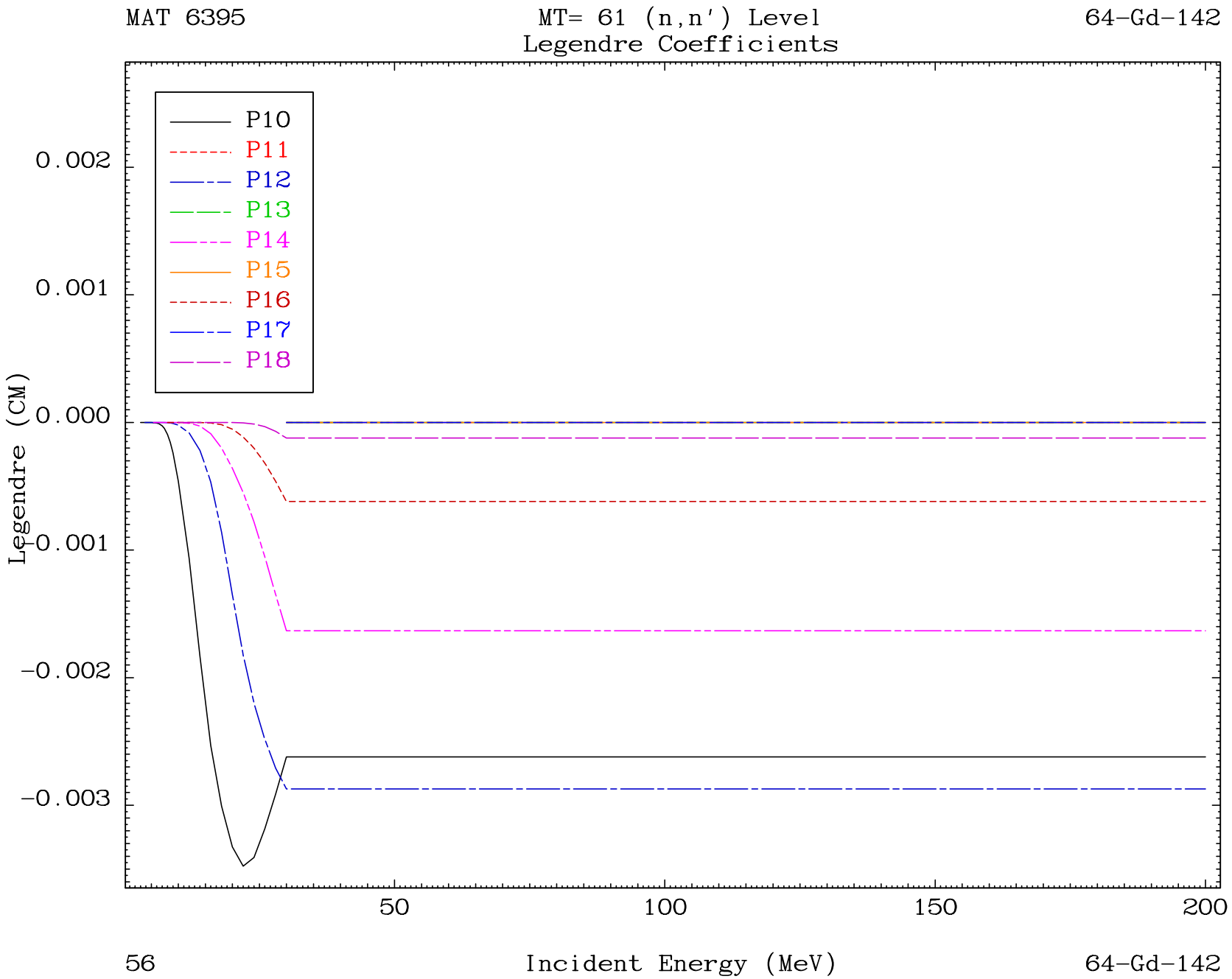

MAT 6395
MT= 59 (n,n') Level
Legendre Coefficients
64-Gd-142
0
X10^-6
-2
-4
-6
-8
Legendre (CM)
50
100
150
200
P19
P20
P21
P22
P23
P24
P25
P26
51
Incident Energy (MeV)
64-Gd-142

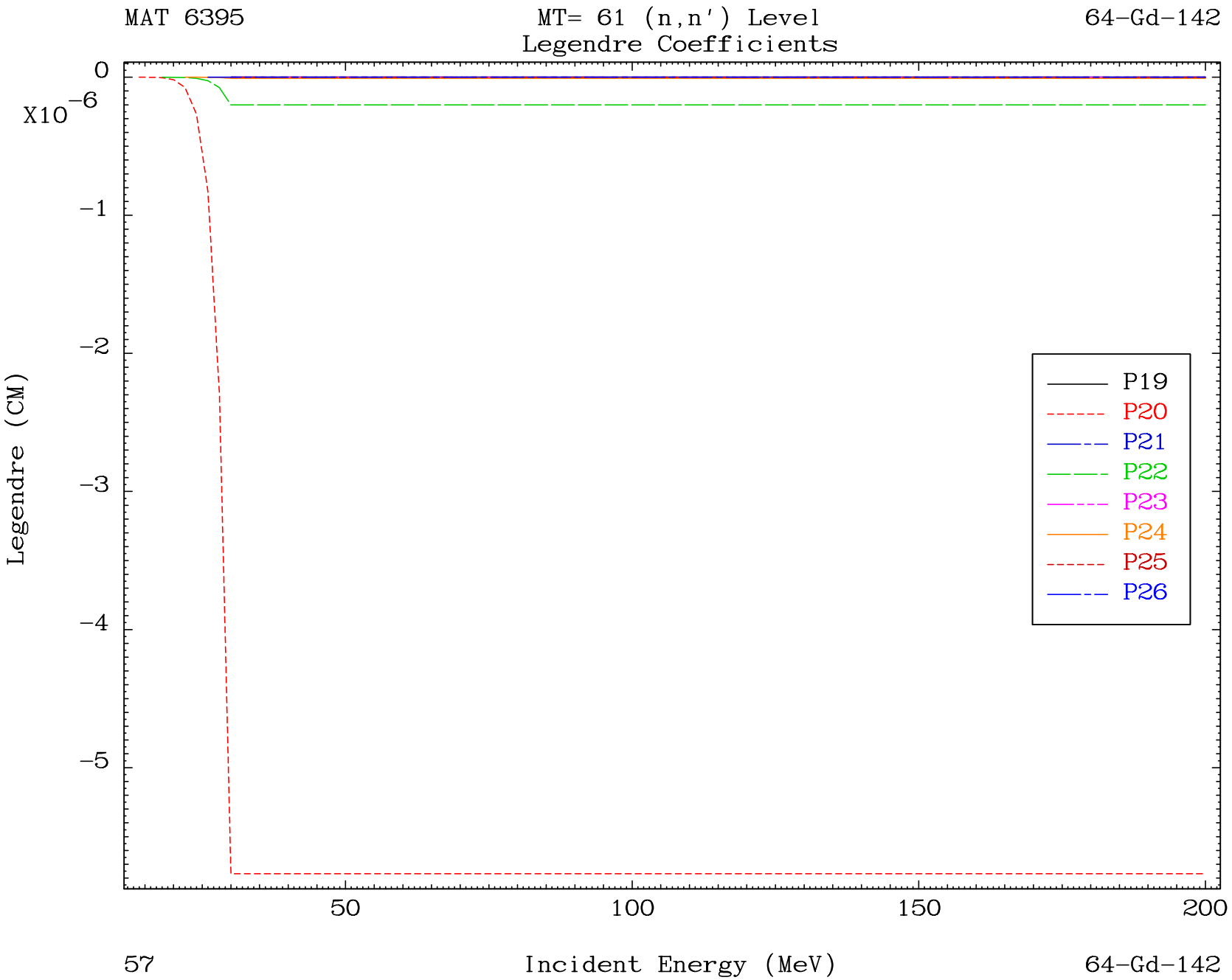

MAT 6395
MT= 60 (n,n') Level
Legendre Coefficients
64-Gd-142
0.20
0.15
0.10
0.05
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
0
50
100
150
200
52
Incident Energy (MeV)
64-Gd-142

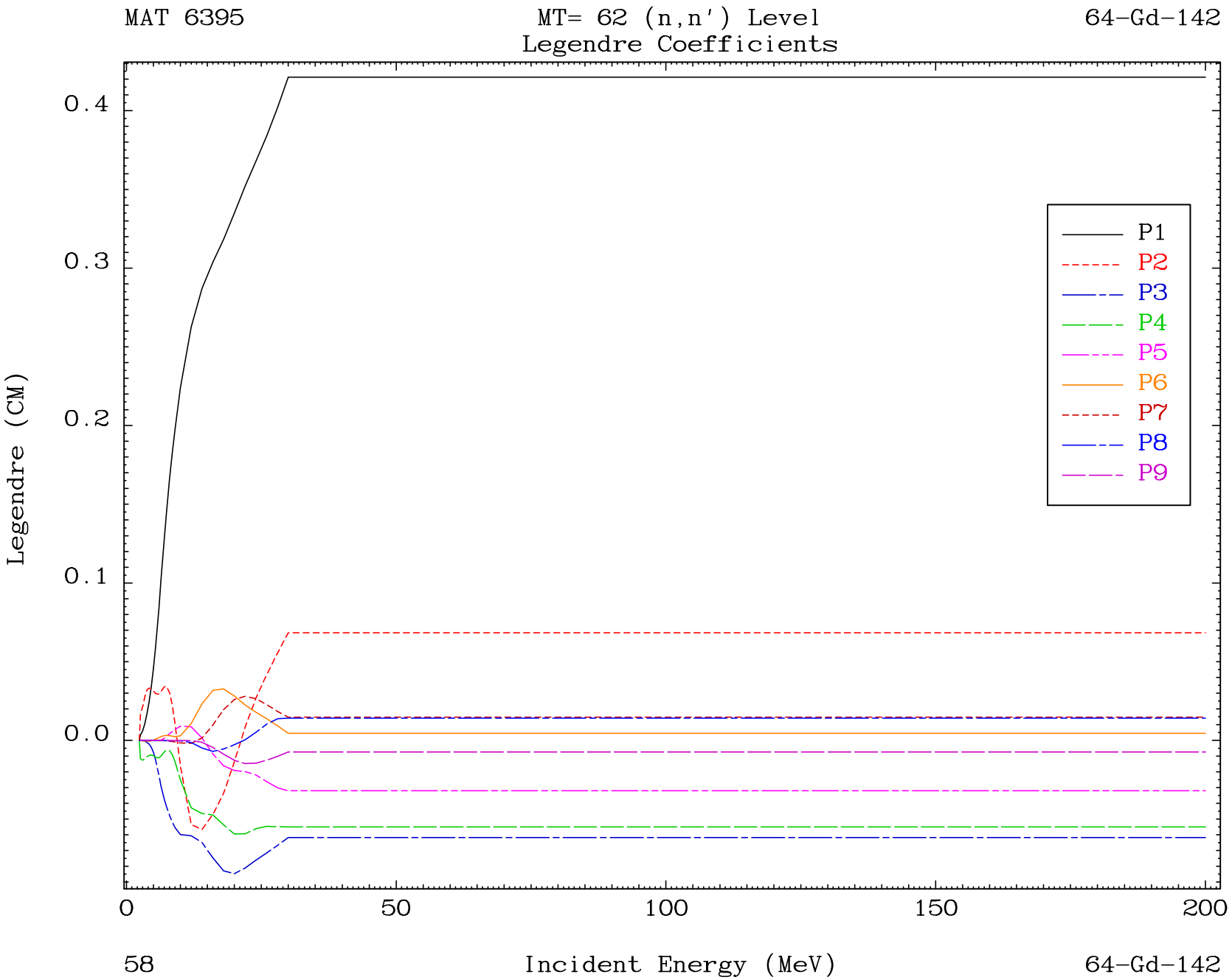

MAT 6395
MT= 60 (n,n') Level
Legendre Coefficients
64-Gd-142
0.003
0.002
0.001
0.000
Legendre (CM)
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
50
100
150
200
53
Incident Energy (MeV)
64-Gd-142

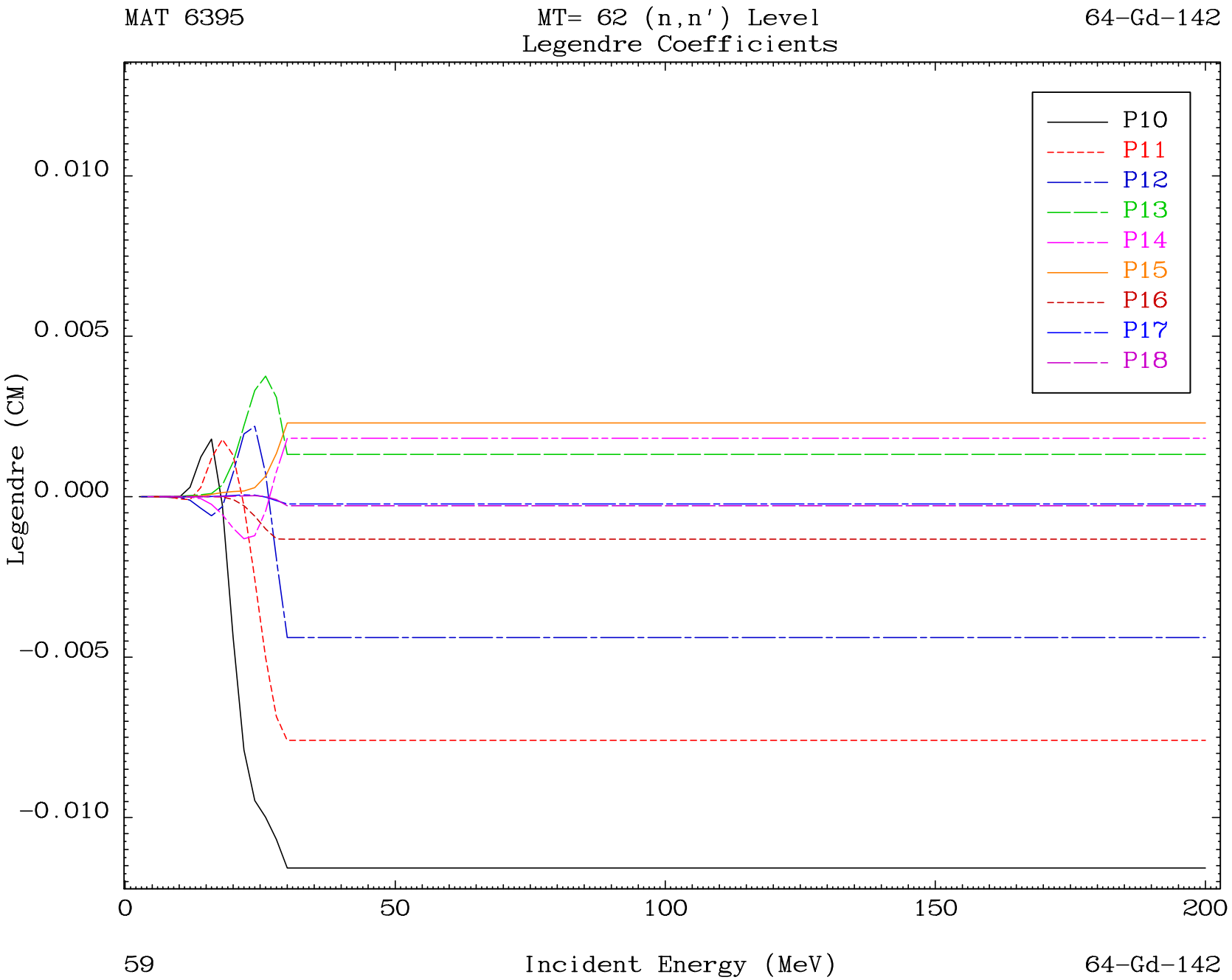

MAT 6395
MT= 60 (n,n') Level
Legendre Coefficients
64-Gd-142
0.0
X10^-6
-0.5
-1.0
-1.5
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
50
100
150
200
54
Incident Energy (MeV)
64-Gd-142

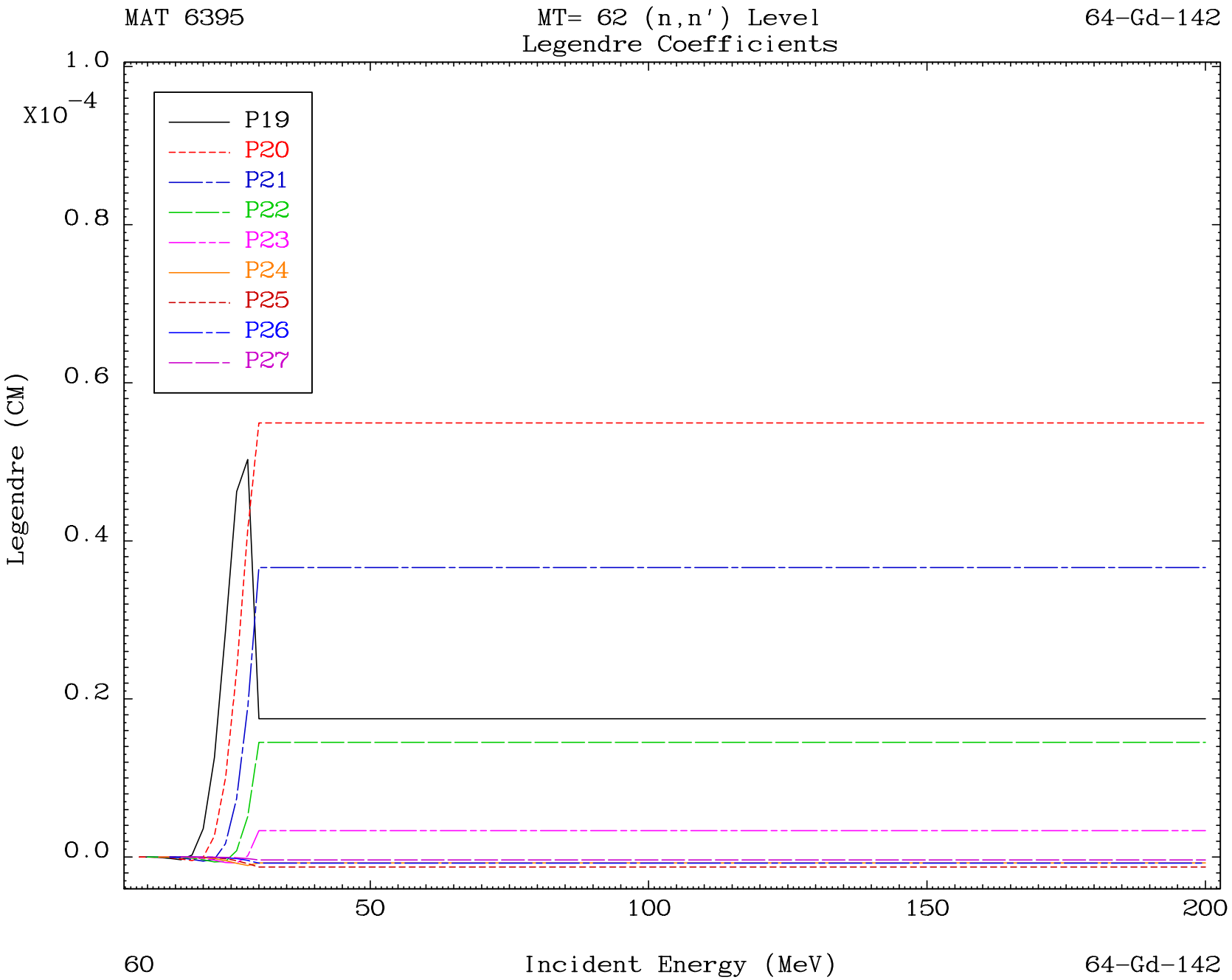

MAT 6395
MT= 61 (n,n') Level
Legendre Coefficients
64-Gd-142
0.15
0.10
0.05
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
55
Incident Energy (MeV)
64-Gd-142

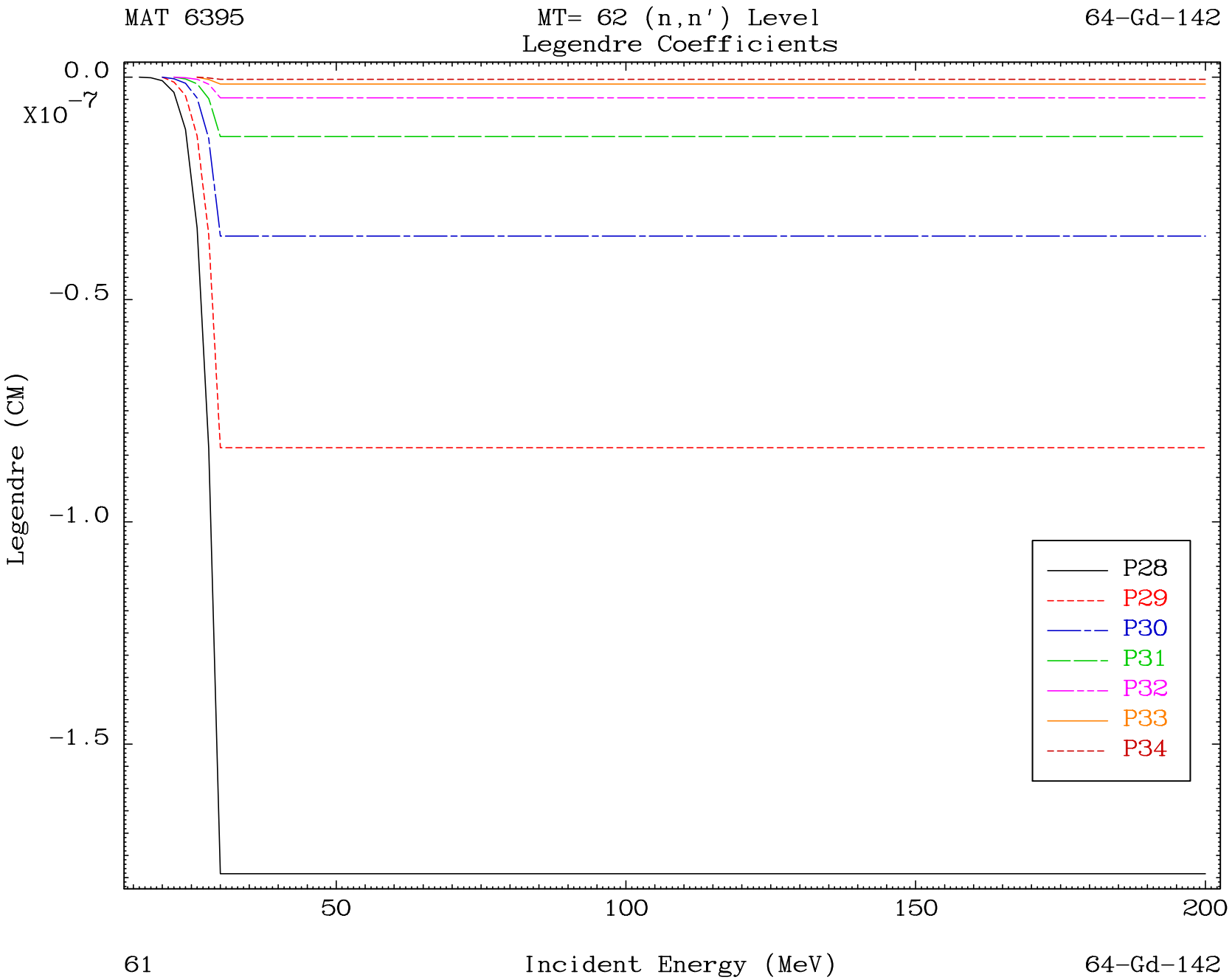

MAT 6395
MT= 61 (n,n') Level
Legendre Coefficients
64-Gd-142
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.002
0.001
0.000
-0.001
-0.002
-0.003
Legendre (CM)
50
100
150
200
56
Incident Energy (MeV)
64-Gd-142

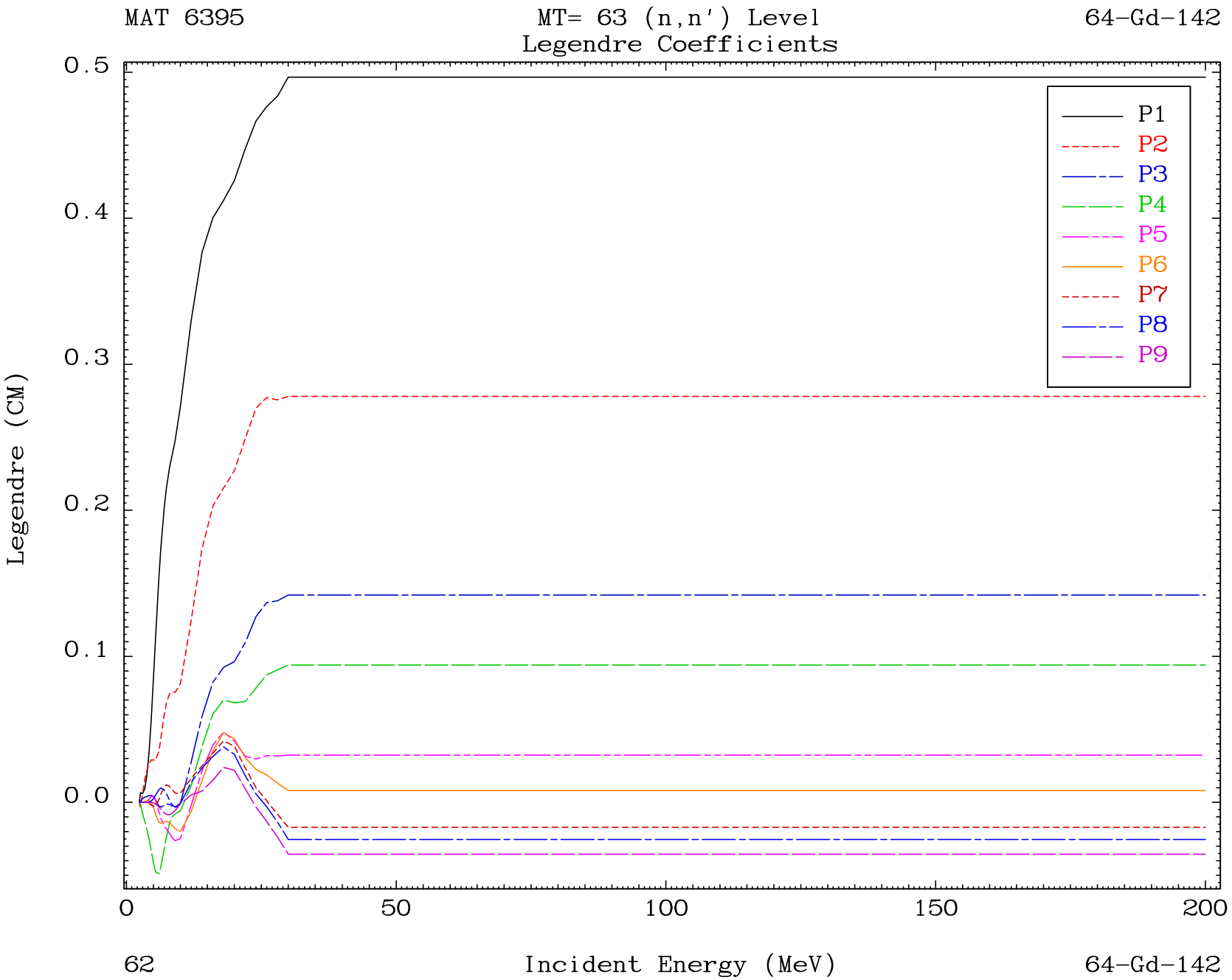

MAT 6395
MT= 61 (n,n') Level
Legendre Coefficients
64-Gd-142
0
X10 −6
−1
−2
−3
−4
−5
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
50
100
150
200
57
Incident Energy (MeV)
64-Gd-142

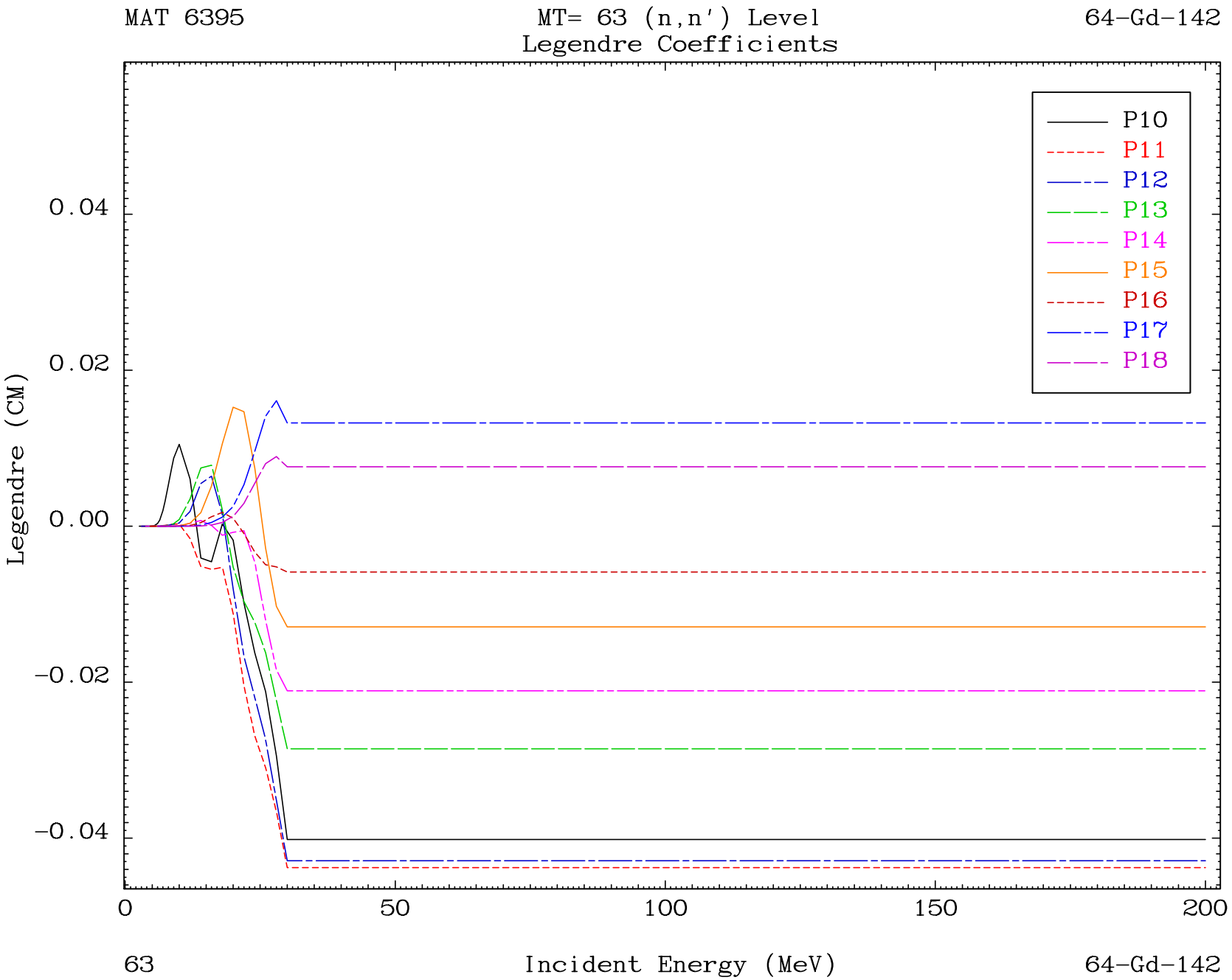

MAT 6395
MT= 62 (n,n') Level
Legendre Coefficients
64-Gd-142
0.4
0.3
0.2
0.1
0.0
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
58
Incident Energy (MeV)
64-Gd-142

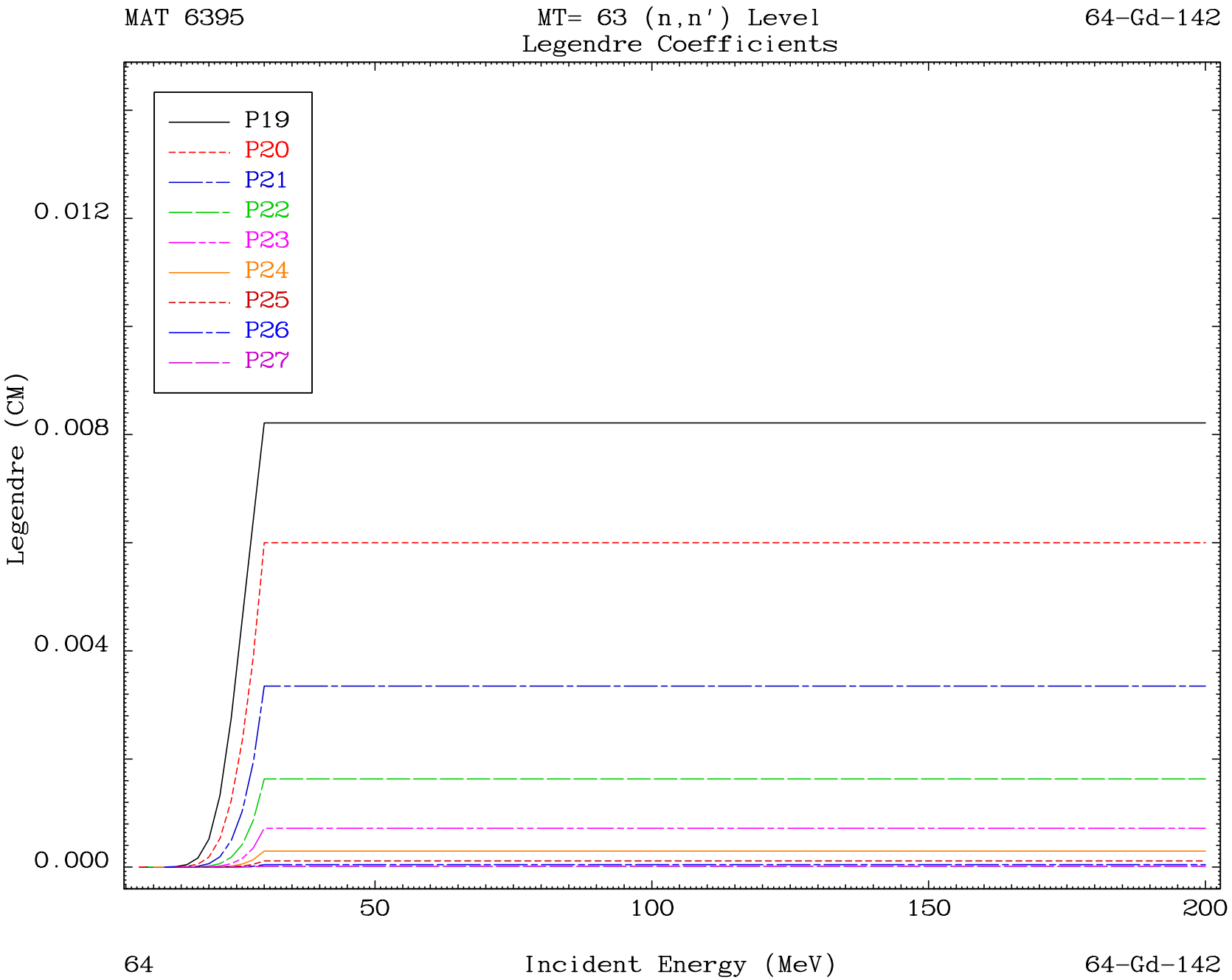

MAT 6395
MT= 62 (n,n') Level
Legendre Coefficients
64-Gd-142
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.010
0.005
0.000
-0.005
-0.010
Legendre (CM)
0
50
100
150
200
59
Incident Energy (MeV)
64-Gd-142

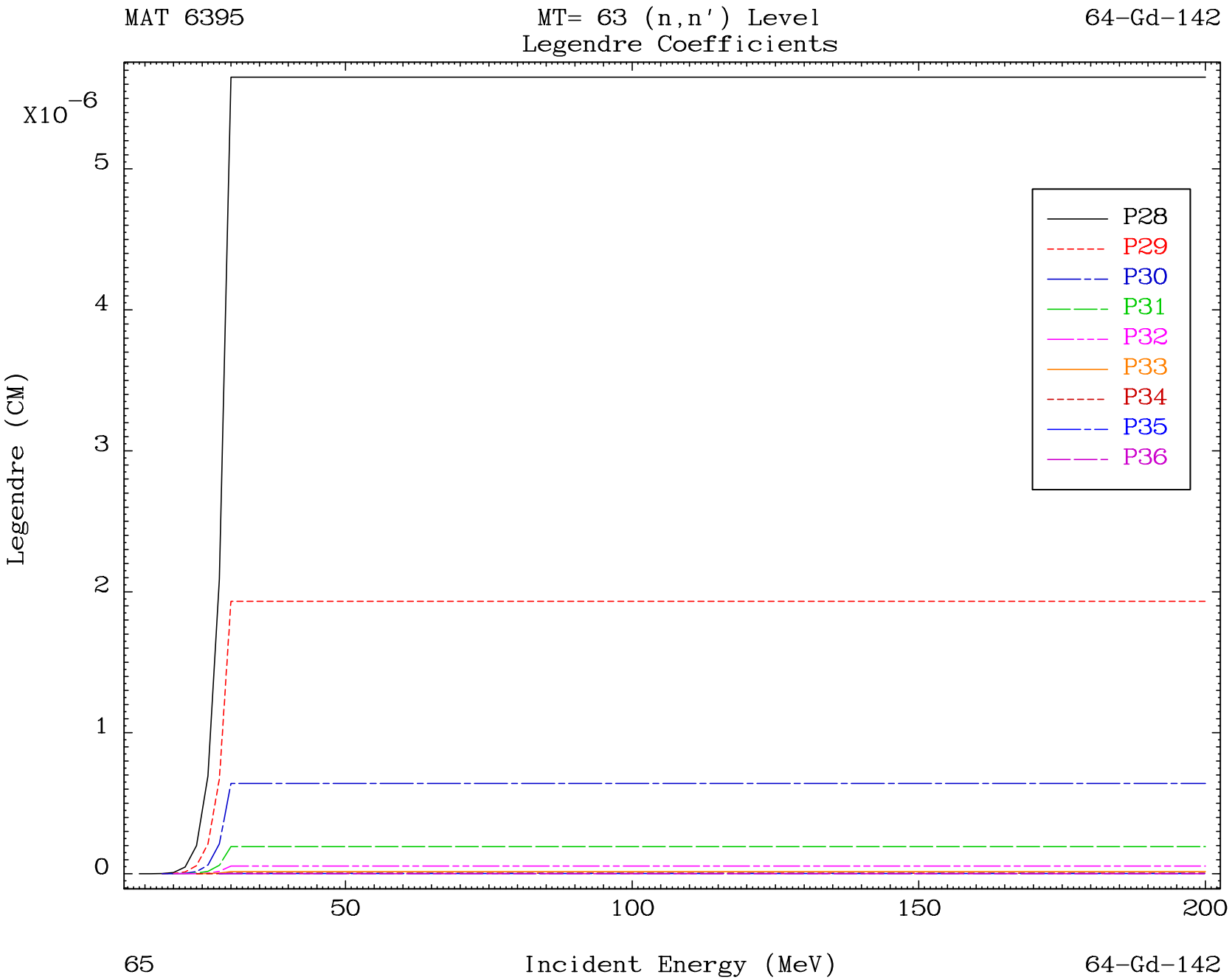

MAT 6395
MT= 62 (n,n') Level
Legendre Coefficients
64-Gd-142
X10^-4
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
60
50
100
150
200
Incident Energy (MeV)
64-Gd-142

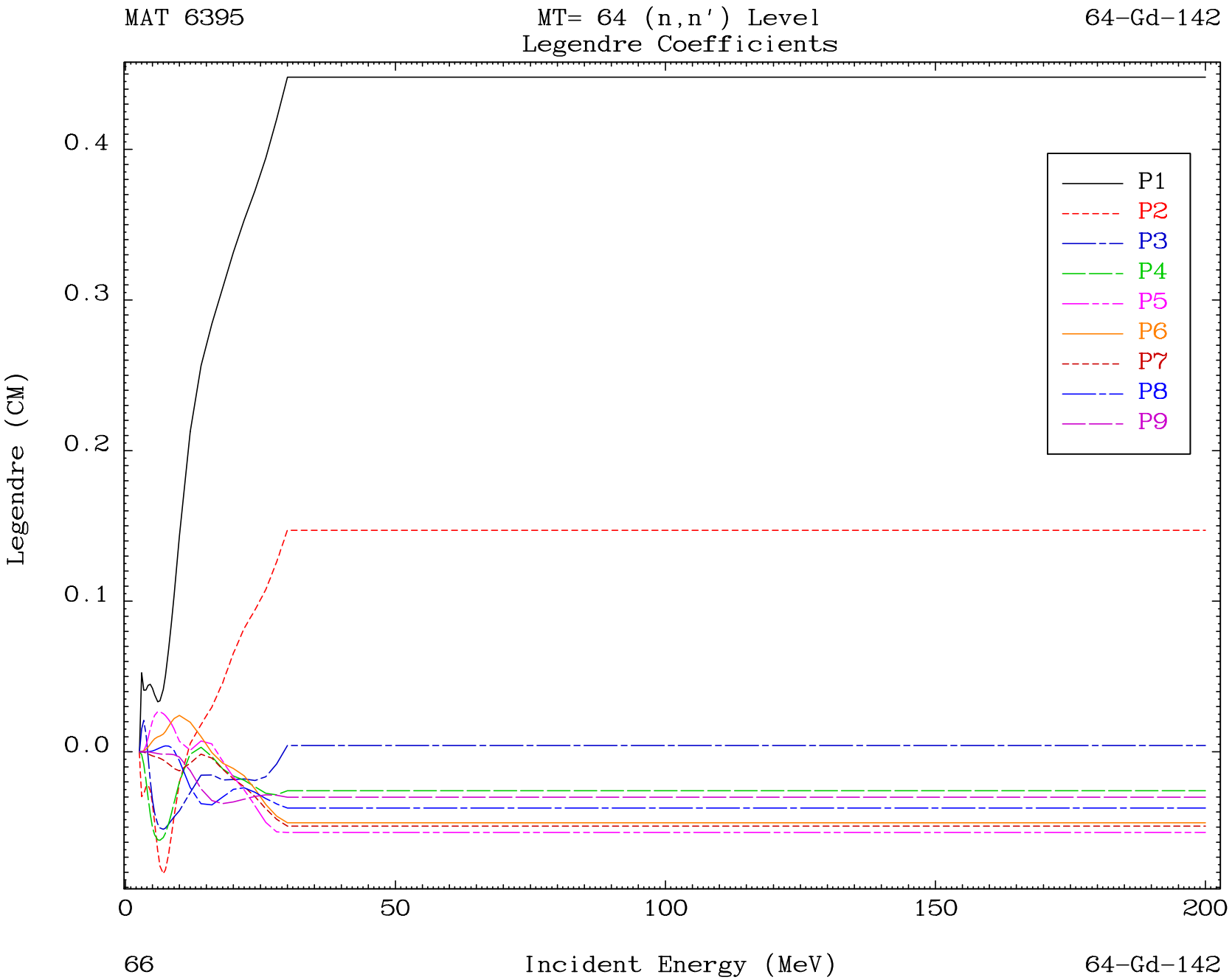

MAT 6395
MT= 62 (n,n') Level
Legendre Coefficients
64-Gd-142
0.0
X10-7
-0.5
-1.0
-1.5
Legendre (CM)
50
100
150
200
61
Incident Energy (MeV)
64-Gd-142
P28
P29
P30
P31
P32
P33
P34

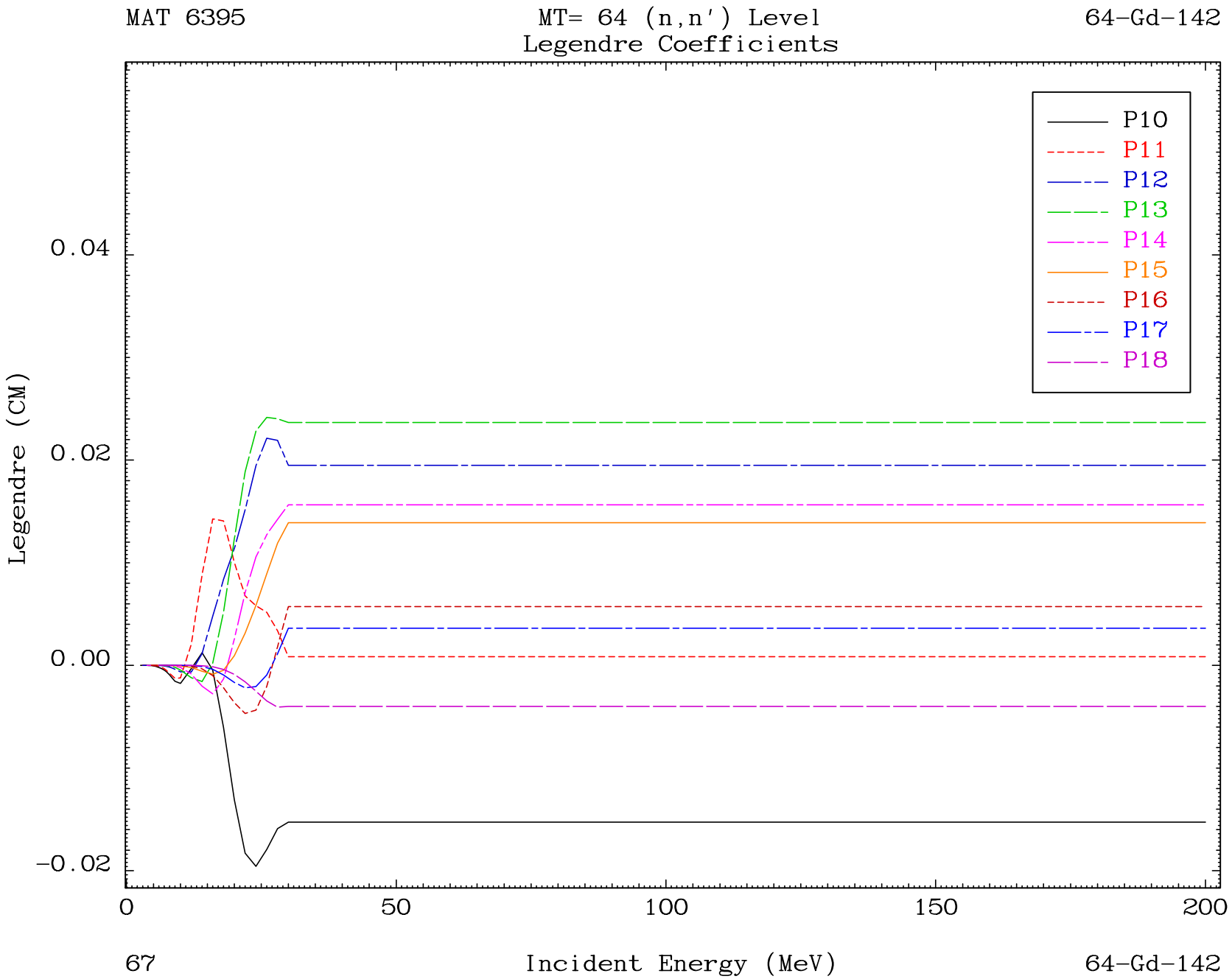

MAT 6395
MT= 63 (n,n') Level
Legendre Coefficients
64-Gd-142
0.5
0.4
0.3
0.2
0.1
0.0
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
62
Incident Energy (MeV)
64-Gd-142

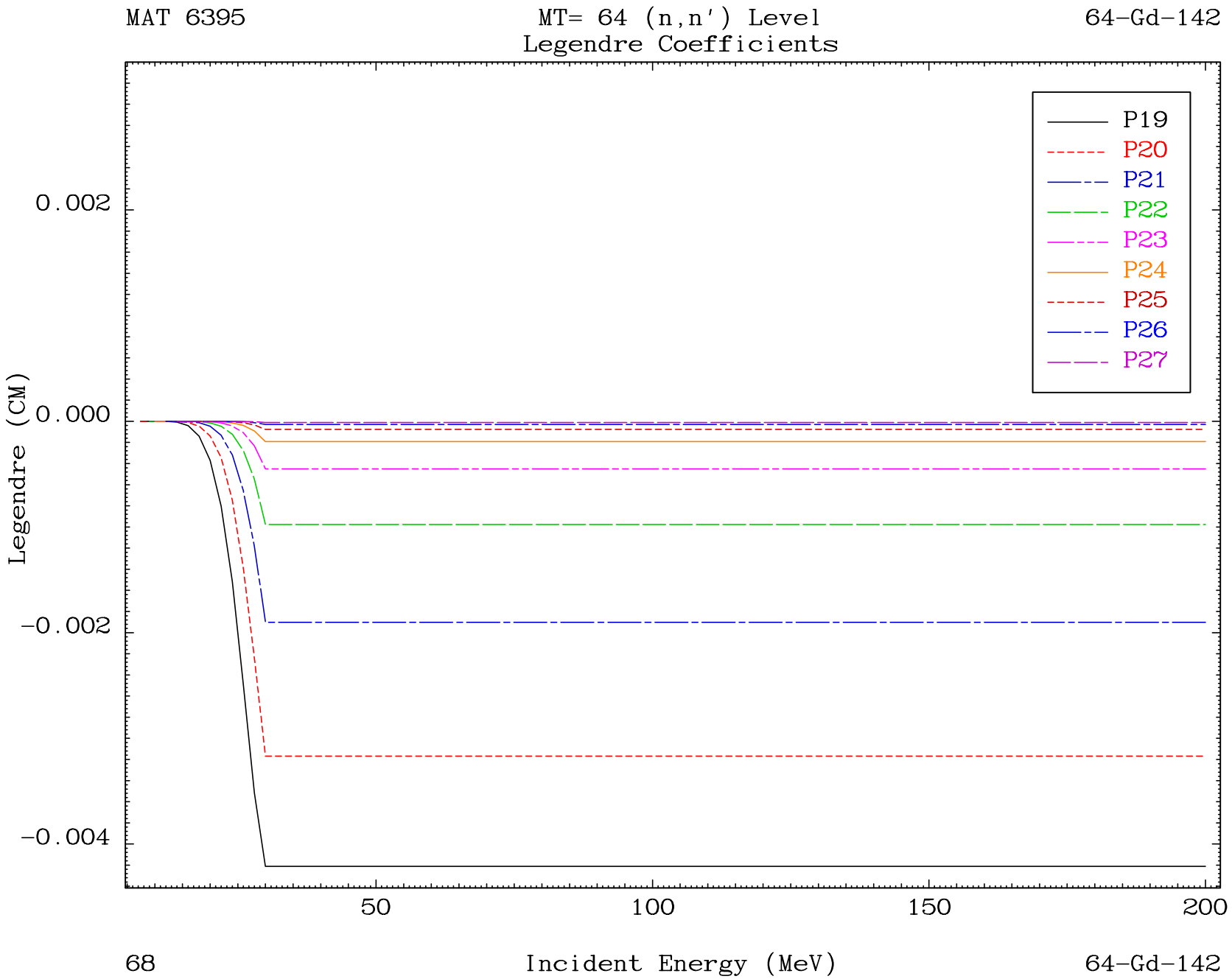

MAT 6395
MT= 63 (n,n') Level
Legendre Coefficients
64-Gd-142
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.04
0.02
0.00
-0.02
-0.04
Legendre (CM)
0
50
100
150
200
63
Incident Energy (MeV)
64-Gd-142

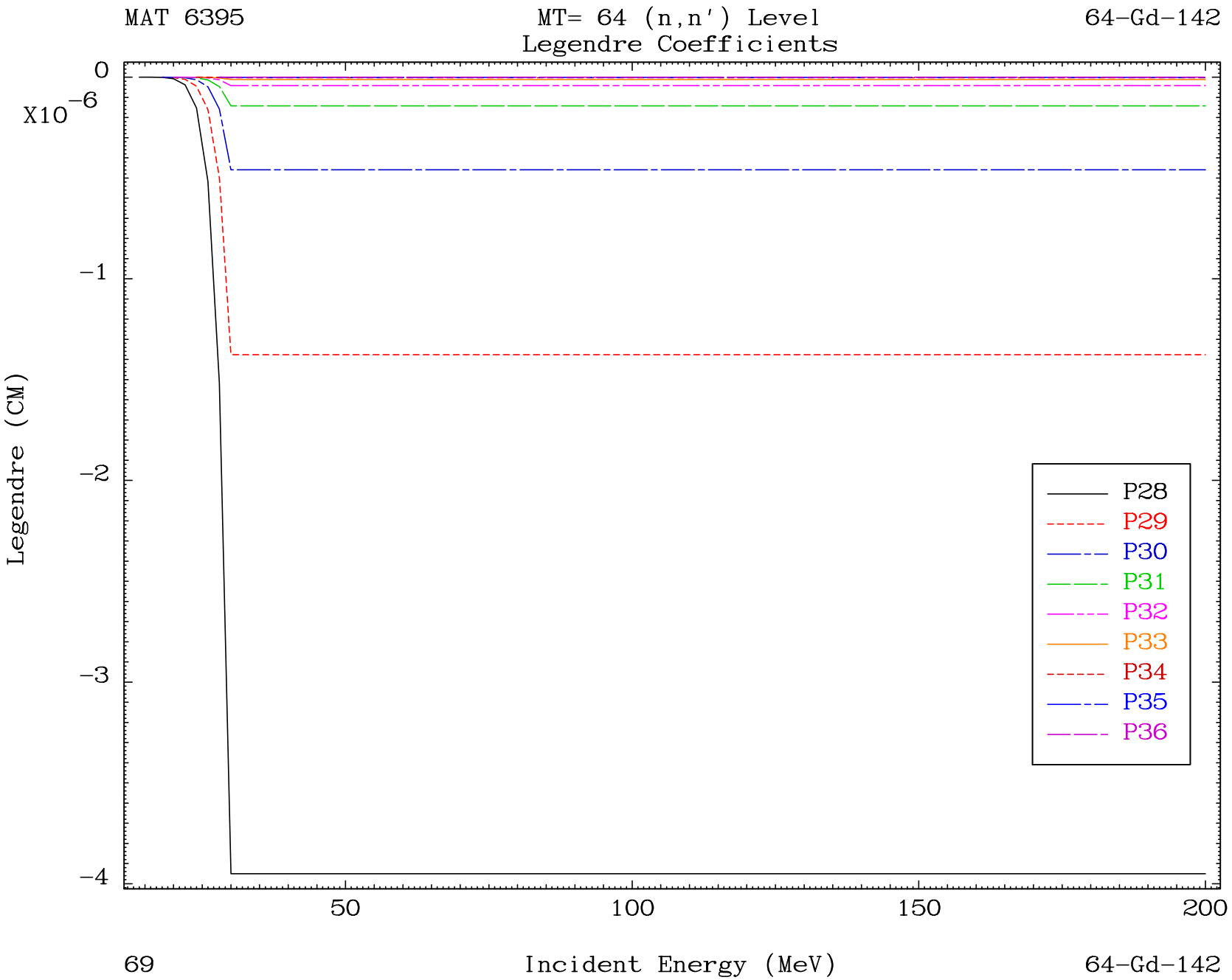

MAT 6395
MT= 63 (n,n') Level
Legendre Coefficients
64-Gd-142
P19
P20
P21
P22
P23
P24
P25
P26
P27
0.012
0.008
0.004
0.000
Legendre (CM)
50
100
150
200
64
Incident Energy (MeV)
64-Gd-142

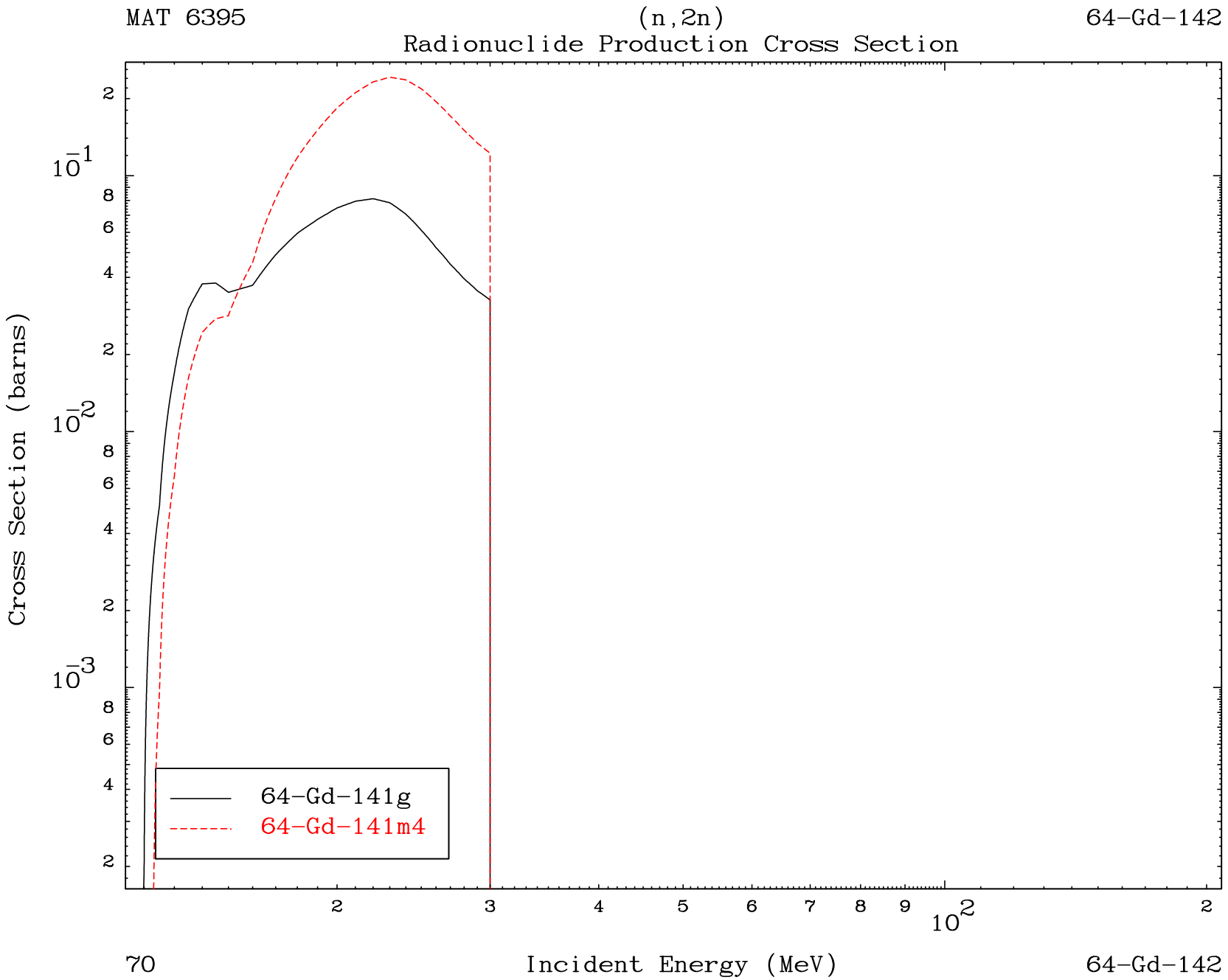

MAT 6395
MT= 63 (n,n') Level
Legendre Coefficients
64-Gd-142
X10^-6
5
4
3
2
1
0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
P35
P36
50
100
150
200
65
Incident Energy (MeV)
64-Gd-142

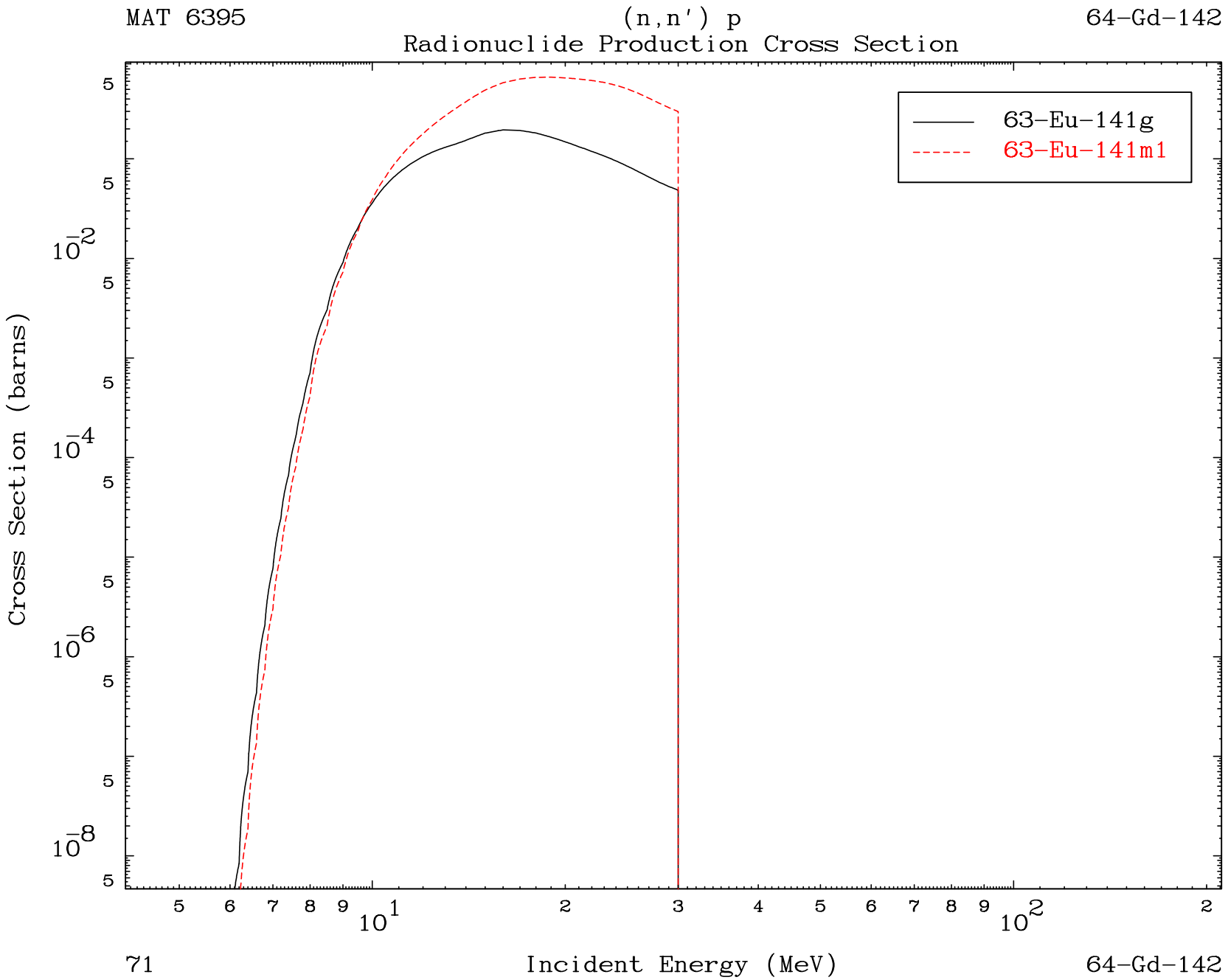

MAT 6395
MT= 64 (n,n') Level
Legendre Coefficients
64-Gd-142
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
66
Incident Energy (MeV)
64-Gd-142

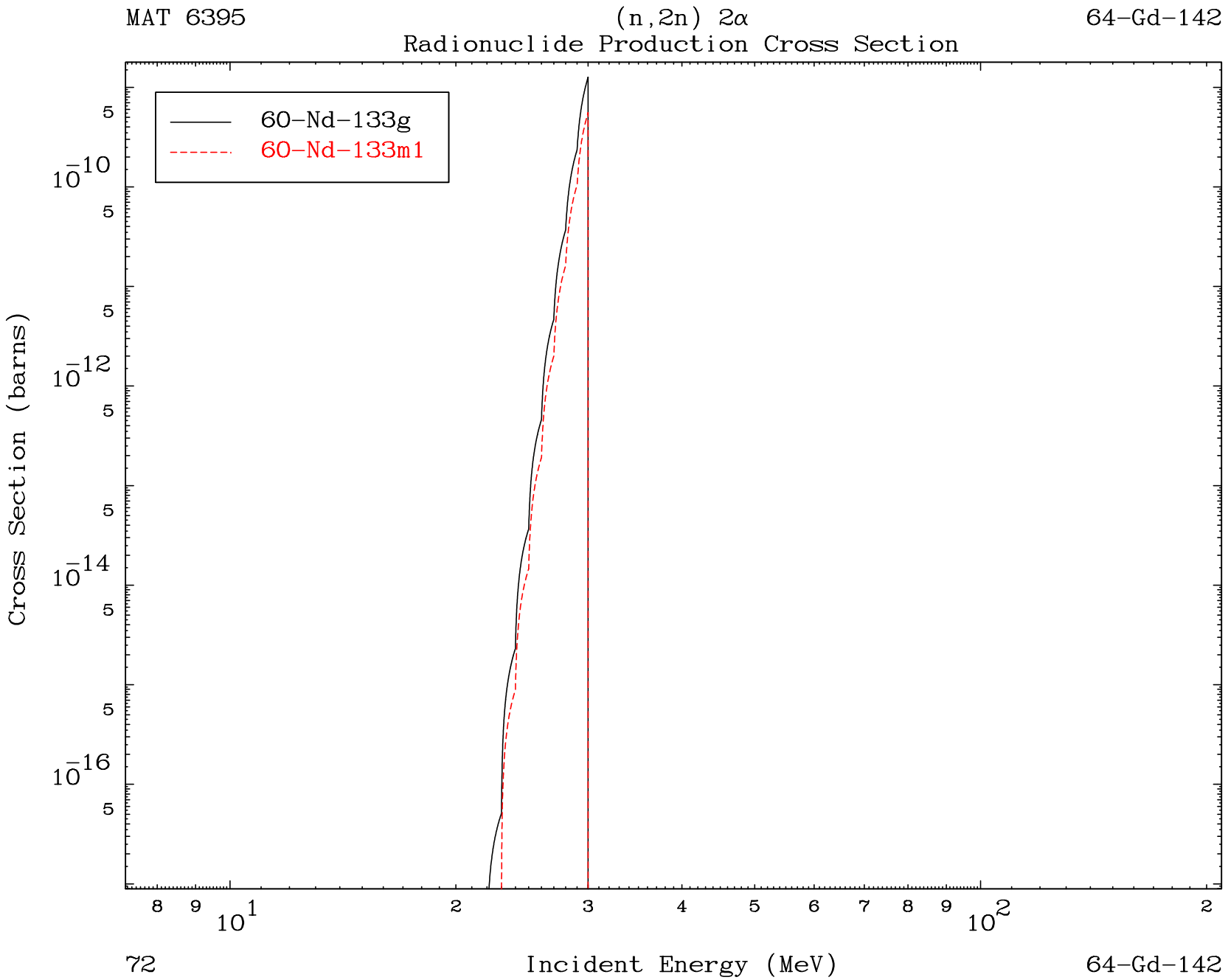

MAT 6395
MT= 64 (n,n') Level
Legendre Coefficients
64-Gd-142
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.04
0.02
0.00
-0.02
Legendre (CM)
0
50
100
150
200
67
Incident Energy (MeV)
64-Gd-142

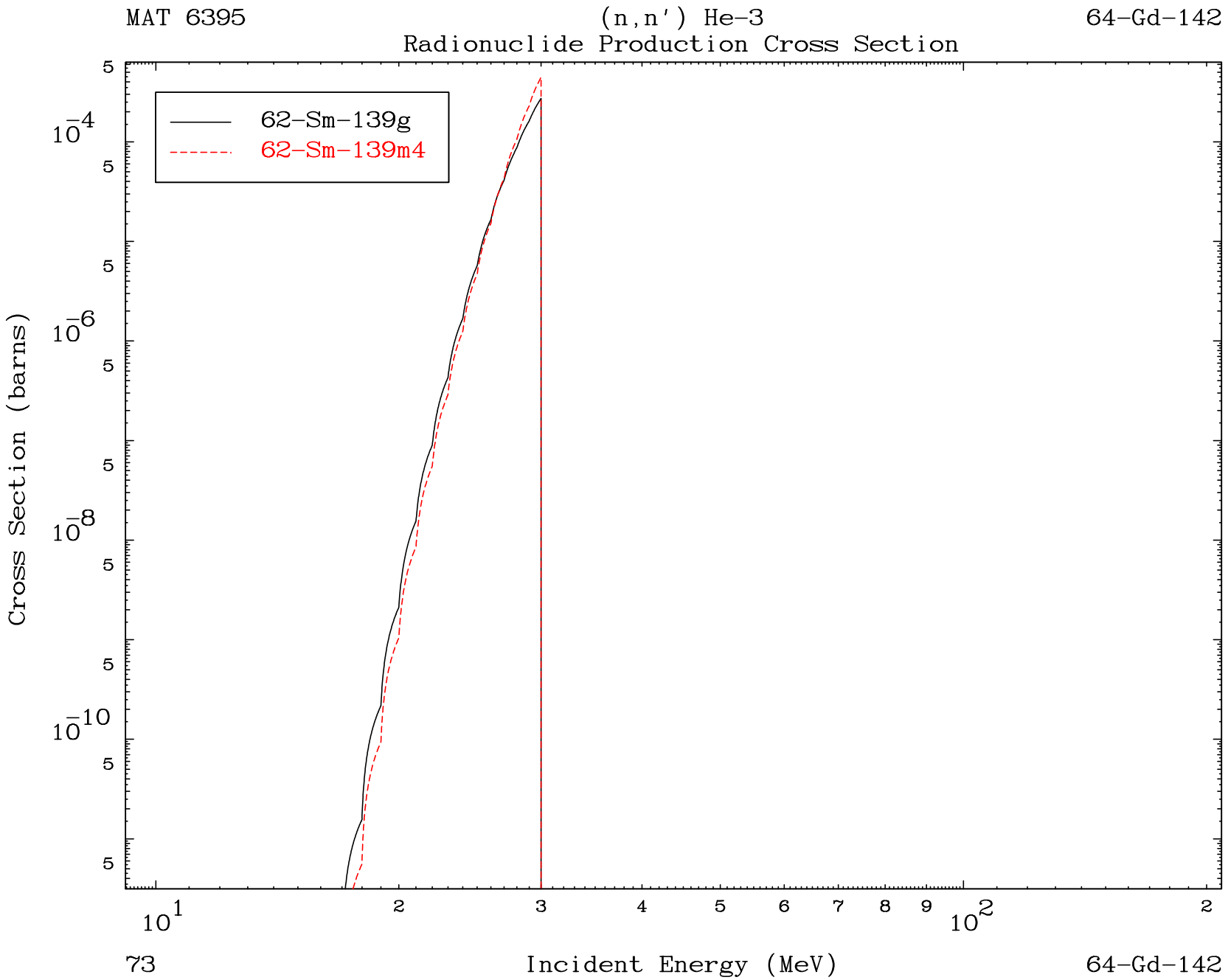

MAT 6395
MT= 64 (n,n') Level
Legendre Coefficients
64-Gd-142
P19
P20
P21
P22
P23
P24
P25
P26
P27
0.002
0.000
-0.002
-0.004
Legendre (CM)
50
100
150
200
68
Incident Energy (MeV)
64-Gd-142

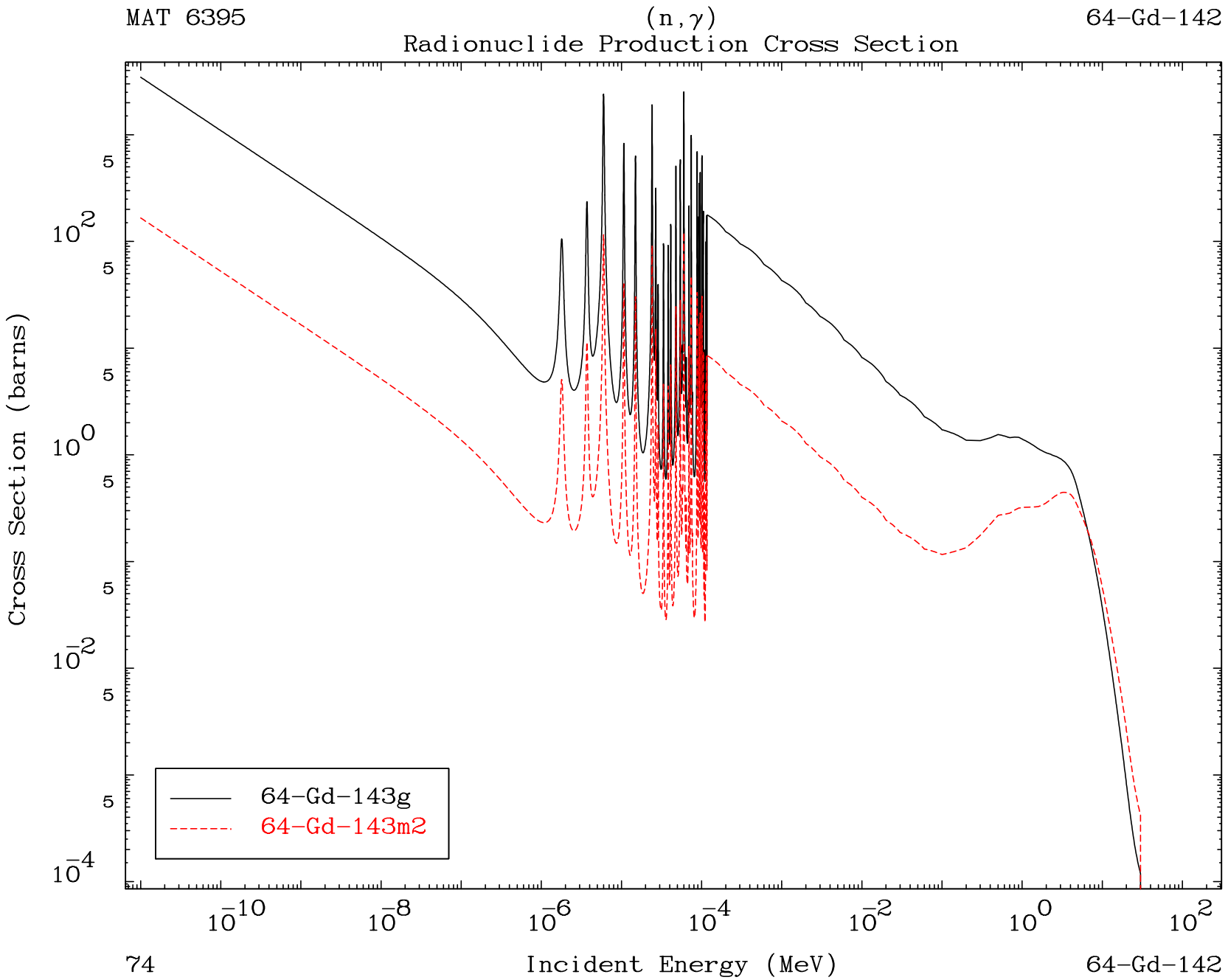

MAT 6395
MT= 64 (n,n') Level
Legendre Coefficients
64-Gd-142
0
X10 −6
−1
−2
−3
−4
Legendre (CM)
50
100
150
200
69
Incident Energy (MeV)
64-Gd-142
P28
P29
P30
P31
P32
P33
P34
P35
P36

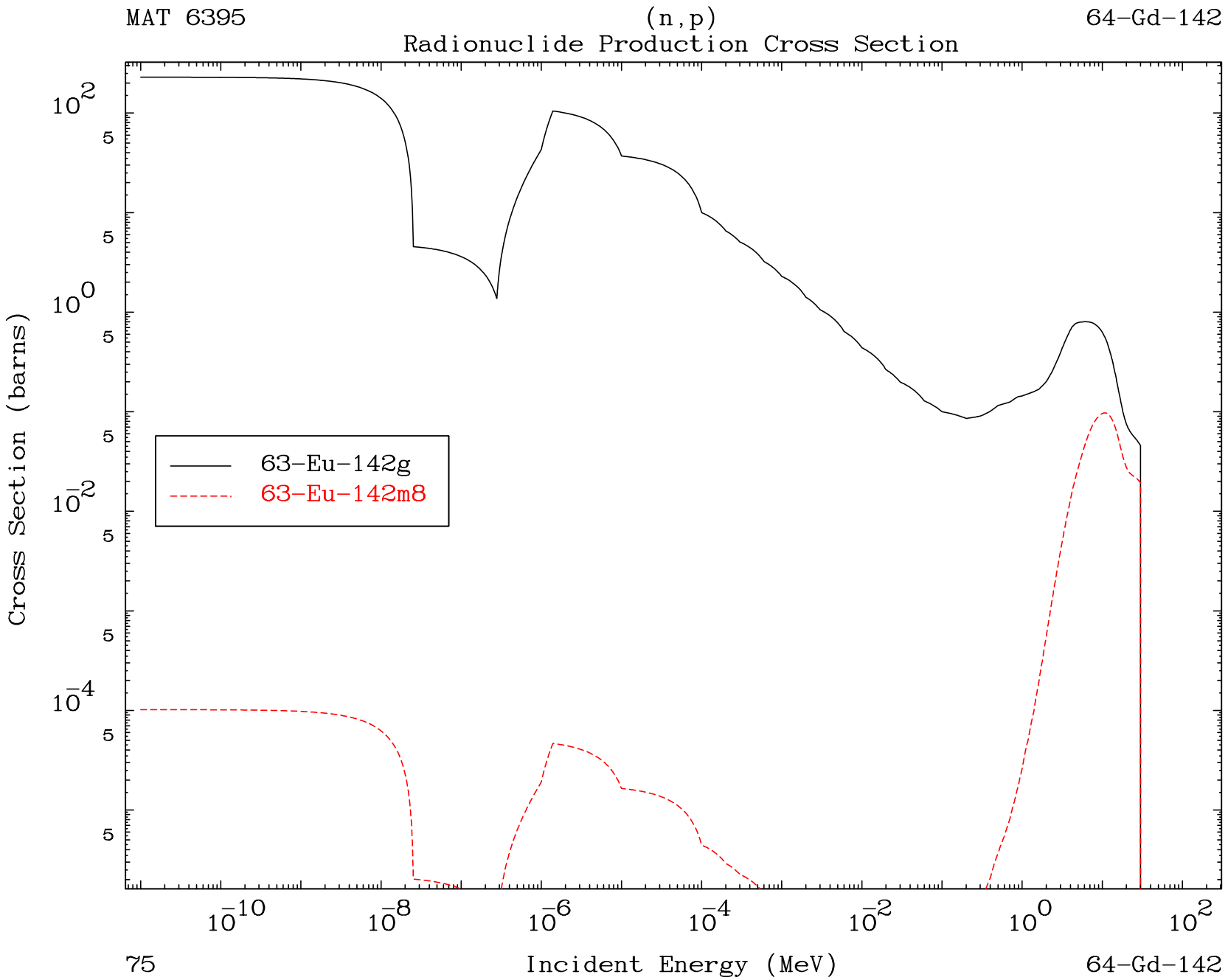

MAT 6395
(n,2n)
64-Gd-142
Radionuclide Production Cross Section
Cross Section (barns)
Incident Energy (MeV)
64-Gd-141g
64-Gd-141m4
70
64-Gd-142

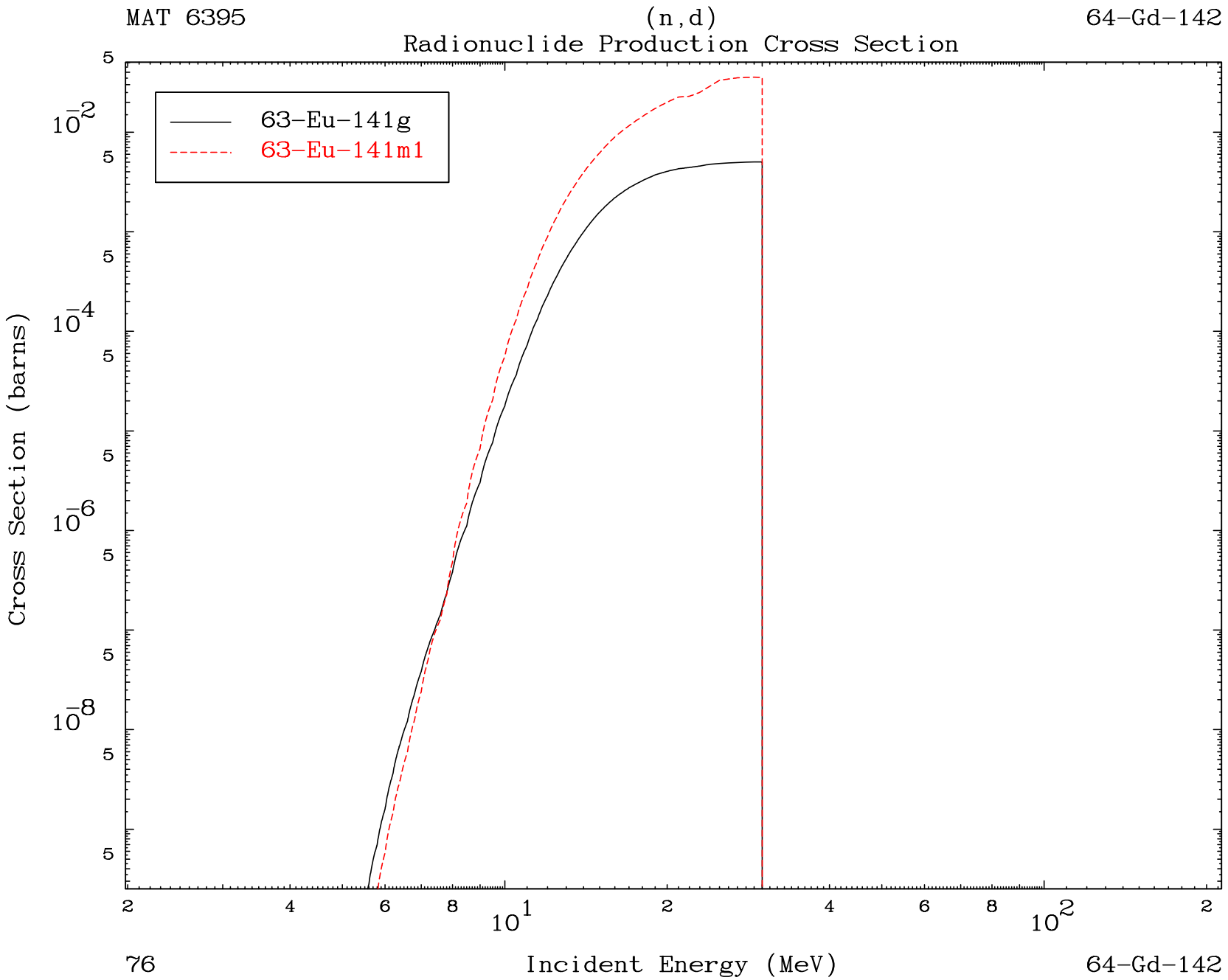

MAT 6395
(n,n') p
64-Gd-142
Radionuclide Production Cross Section
63-Eu-141g
63-Eu-141m1
Cross Section (barns)
Incident Energy (MeV)
71
64-Gd-142

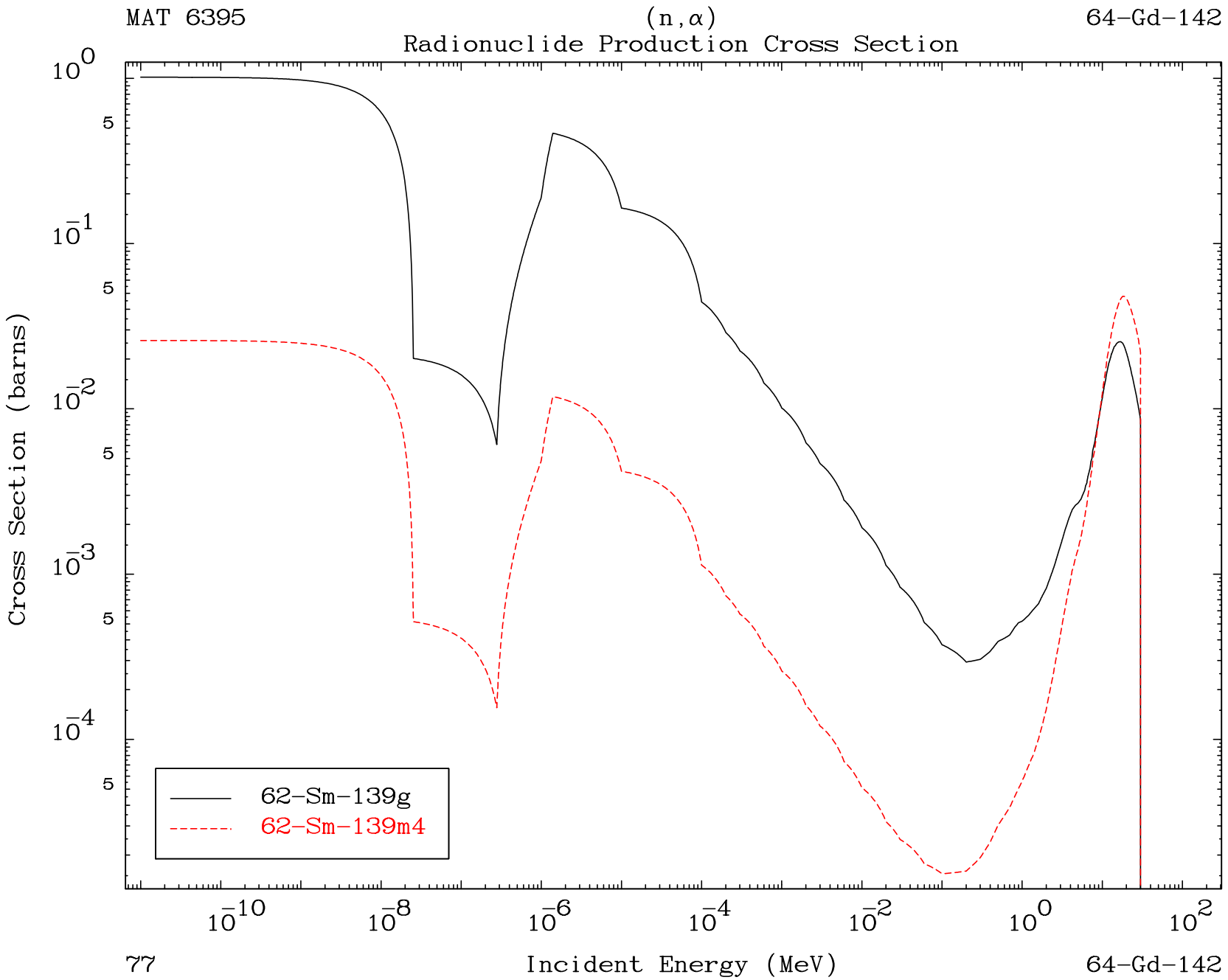

MAT 6395
(n,2n) 2α
64-Gd-142
Radionuclide Production Cross Section
60-Nd-133g
60-Nd-133m1
Cross Section (barns)
10^-10
10^-12
10^-14
10^-16
5
8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
72
Incident Energy (MeV)
64-Gd-142

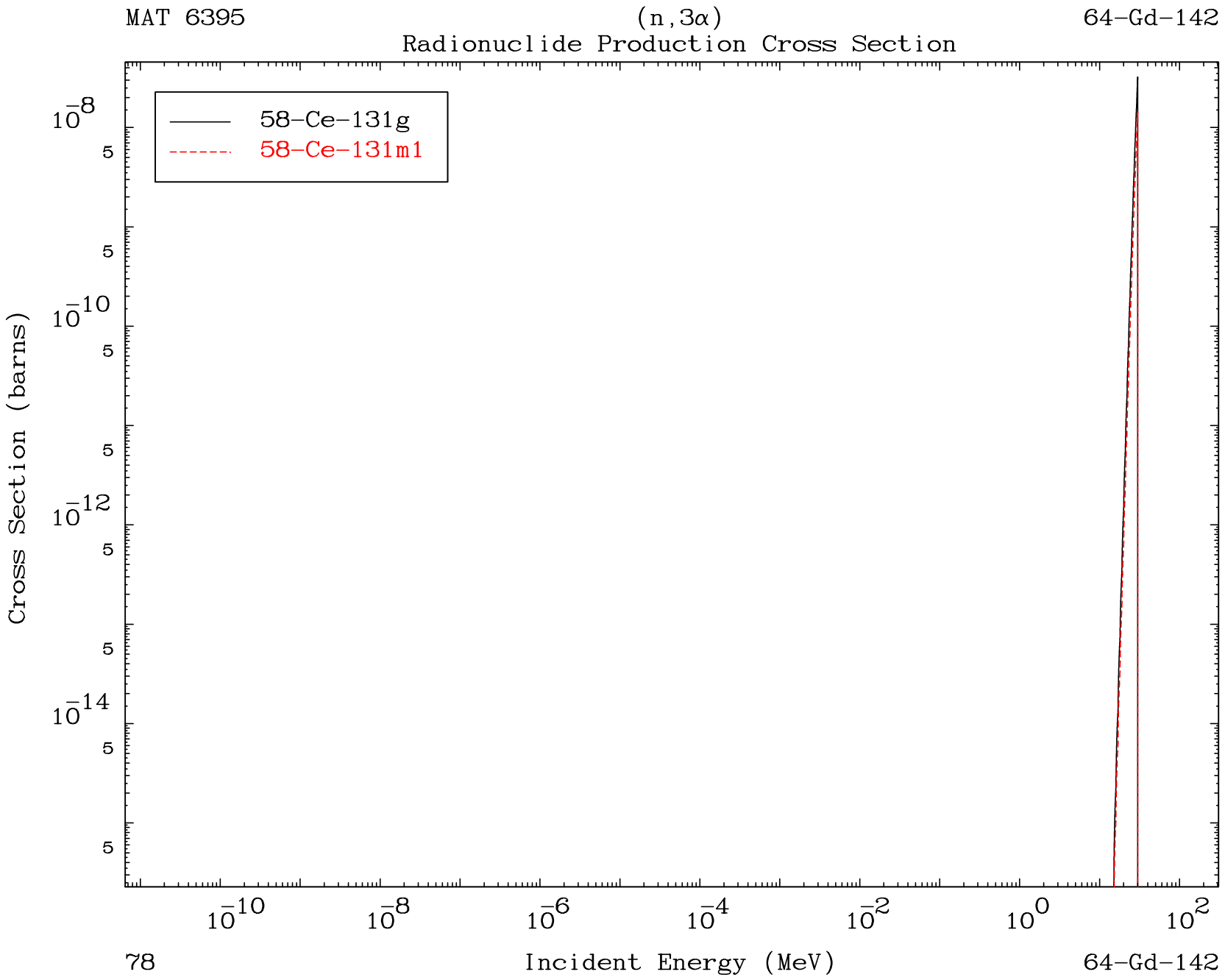

MAT 6395
(n,n') He-3
64-Gd-142
Radionuclide Production Cross Section
62-Sm-139g
62-Sm-139m4
Cross Section (barns)
Incident Energy (MeV)
73
64-Gd-142

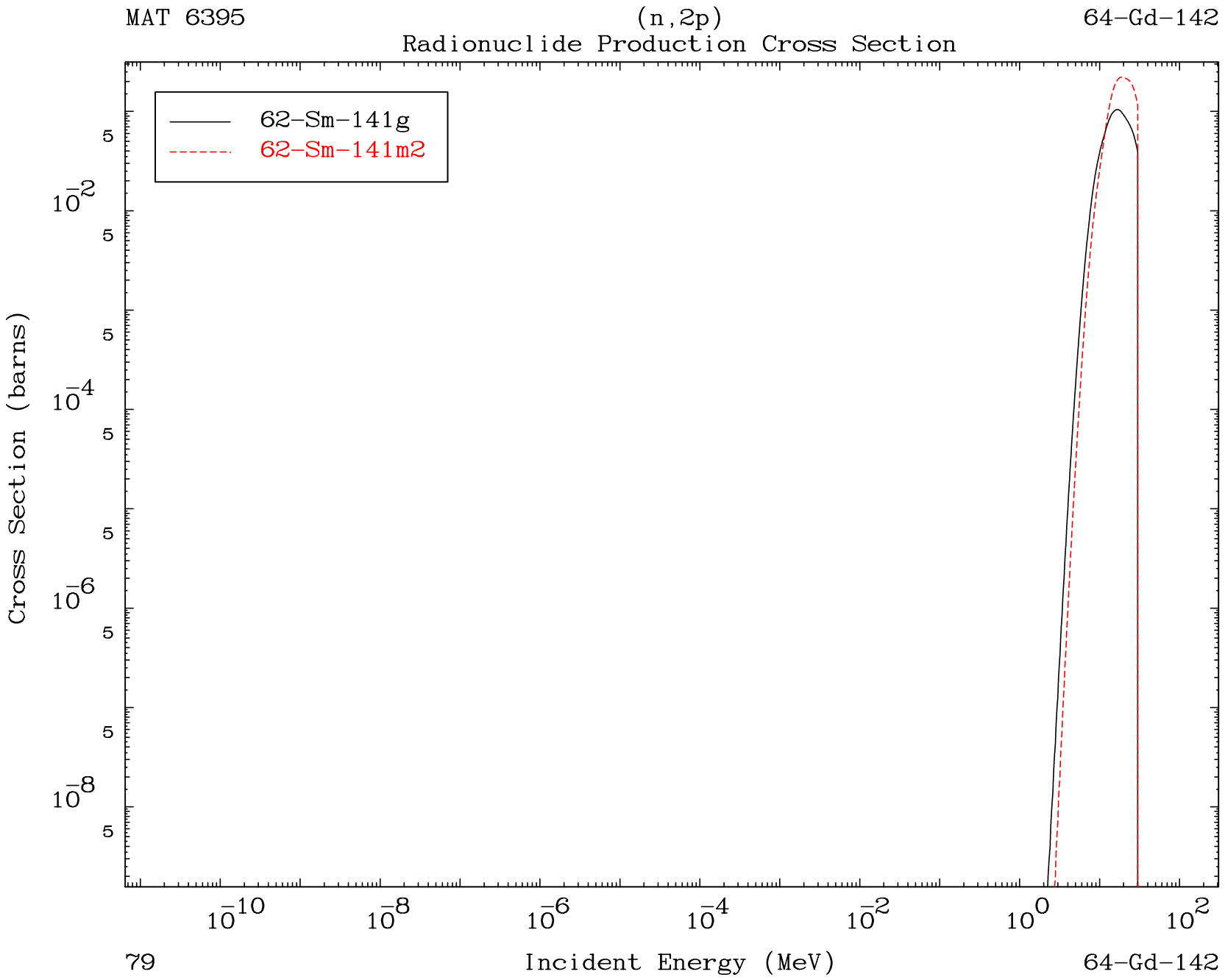

MAT 6395
(n,γ)
64-Gd-142
Radionuclide Production Cross Section
Cross Section (barns)
10^2
10^0
10^-2
10^-4
5
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
64-Gd-143g
64-Gd-143m2
74
Incident Energy (MeV)
64-Gd-142

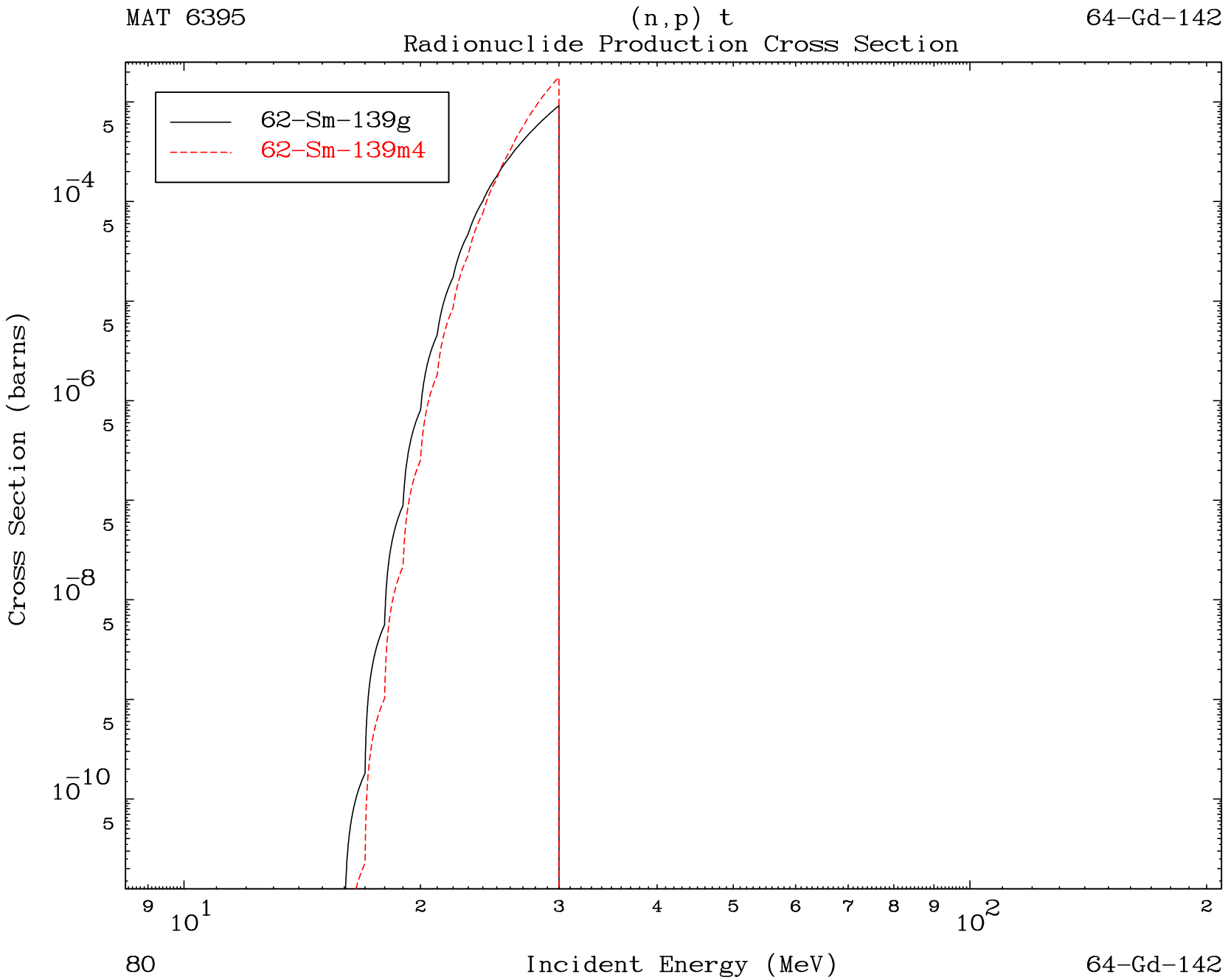

MAT 6395
(n,p)
64-Gd-142
Radionuclide Production Cross Section
Cross Section (barns)
10^2
10^0
10^-2
10^-4
63-Eu-142g
63-Eu-142m8
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
75
Incident Energy (MeV)
64-Gd-142


MAT 6395
(n,d)
64-Gd-142
Radionuclide Production Cross Section
63-Eu-141g
63-Eu-141m1
Cross Section (barns)
Incident Energy (MeV)
76
64-Gd-142


MAT 6395
(n,α)
64-Gd-142
Radionuclide Production Cross Section
Cross Section (barns)
10^0
5
10^-1
5
10^-2
5
10^-3
5
10^-4
5
62-Sm-139g
62-Sm-139m4
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
77
Incident Energy (MeV)
64-Gd-142


MAT 6395
(n,3α)
64-Gd-142
Radionuclide Production Cross Section
58-Ce-131g
58-Ce-131m1
Cross Section (barns)
10^-8
10^-10
10^-12
10^-14
5
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
78
Incident Energy (MeV)
64-Gd-142


MAT 6395
(n,2p)
64-Gd-142
Radionuclide Production Cross Section
62-Sm-141g
62-Sm-141m2
Cross Section (barns)
Incident Energy (MeV)
79
64-Gd-142


MAT 6395
(n,p) t
64-Gd-142
Radionuclide Production Cross Section
62-Sm-139g
62-Sm-139m4
Cross Section (barns)
10-4
10-6
10-8
10-10
Incident Energy (MeV)
80
64-Gd-142