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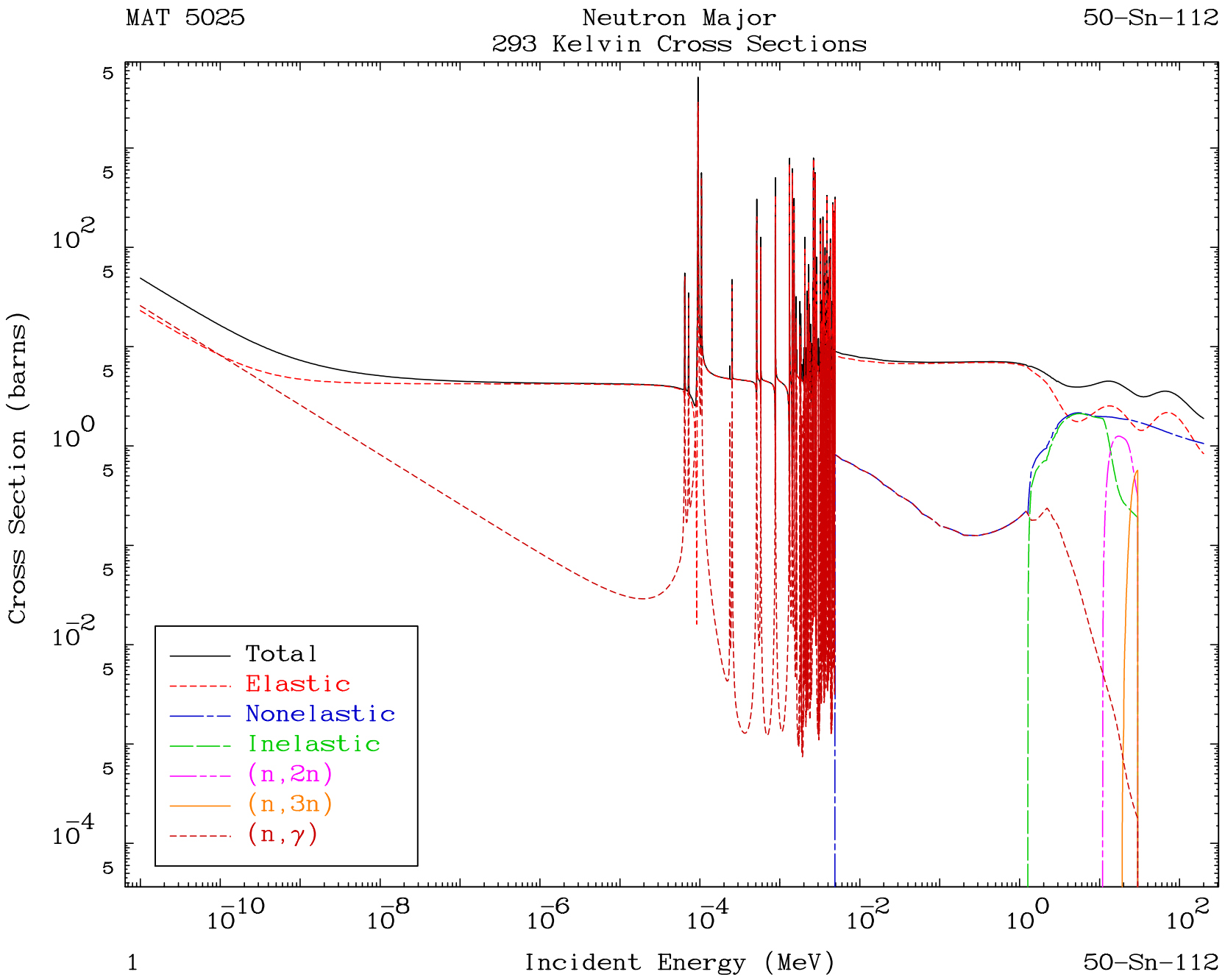
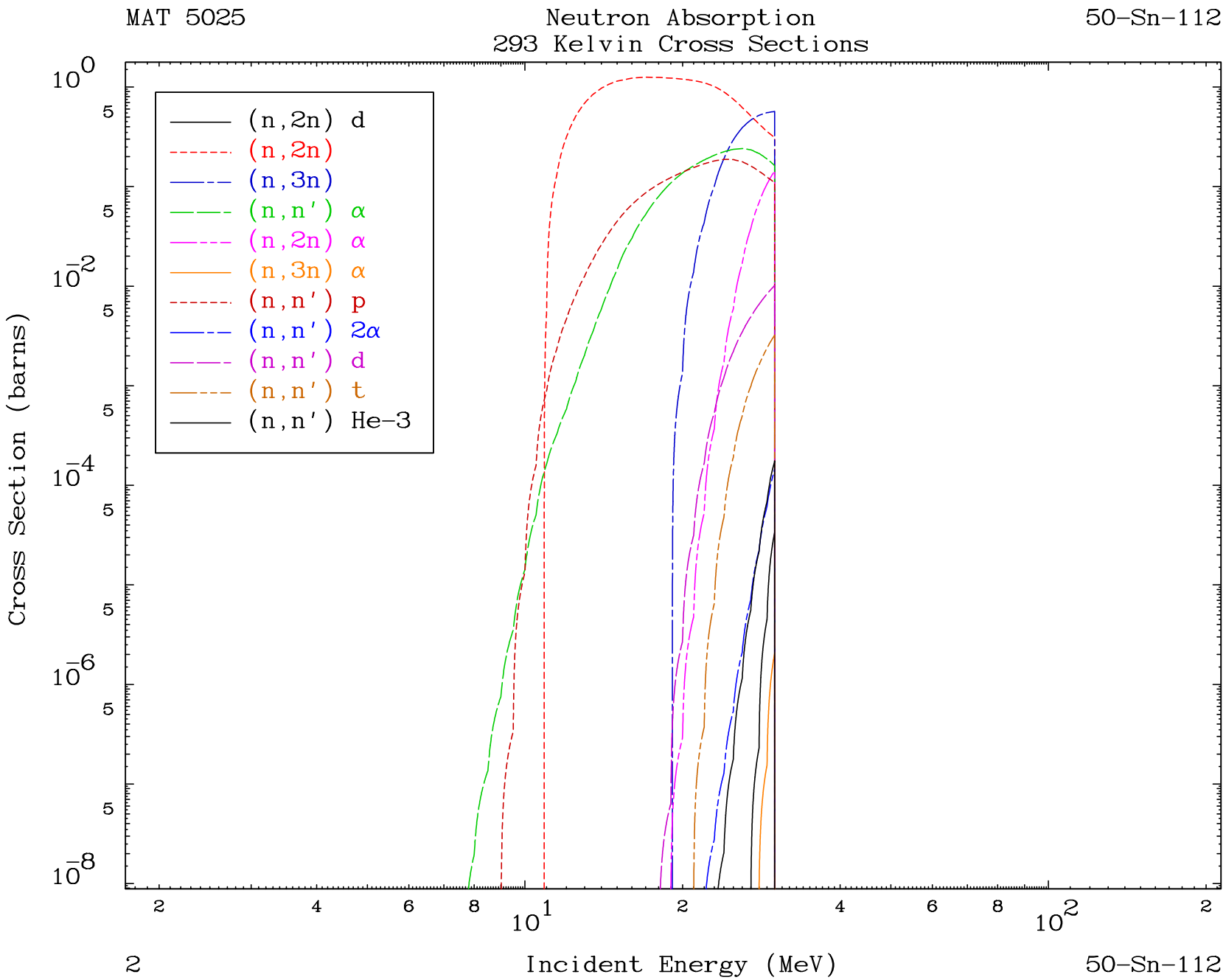
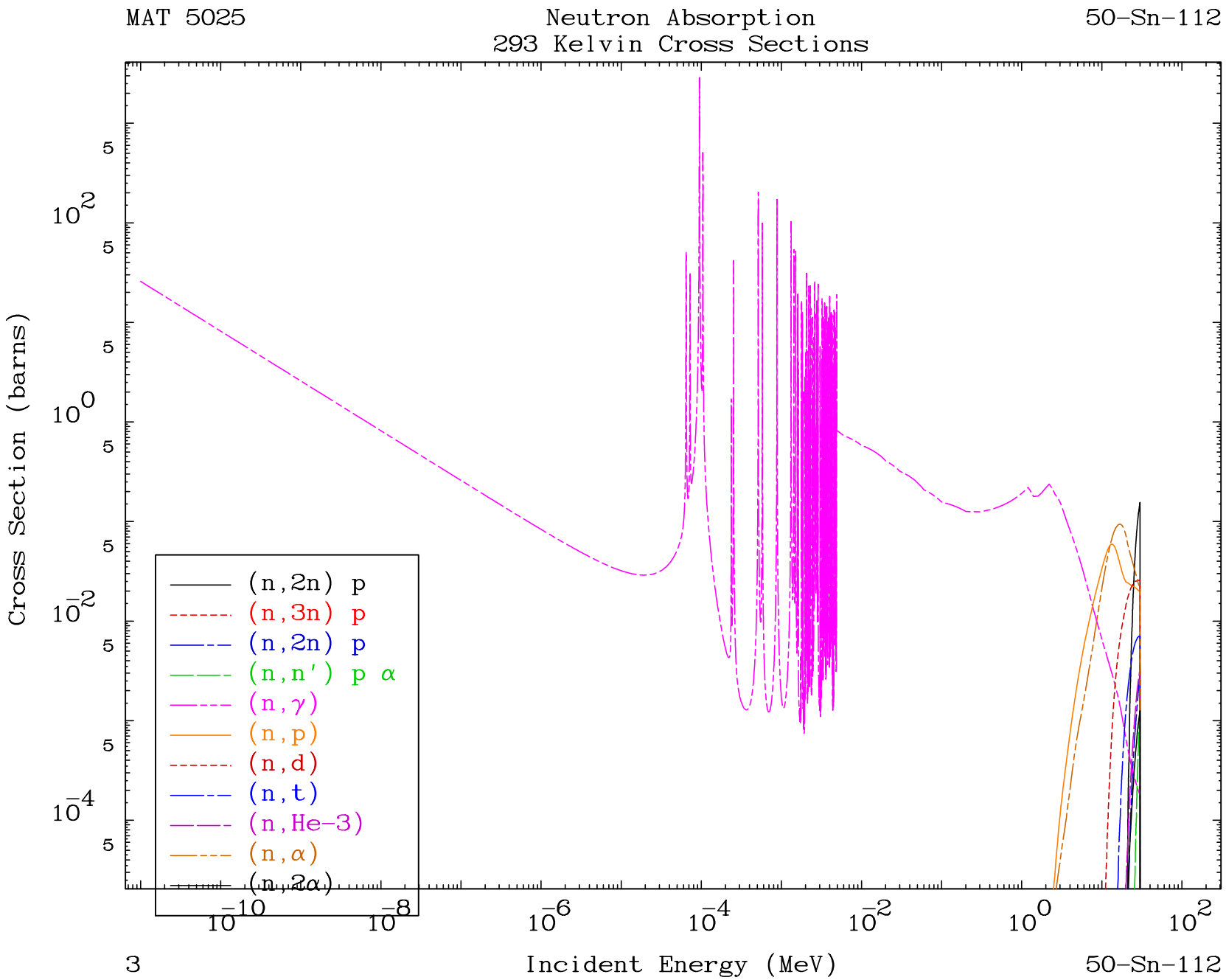
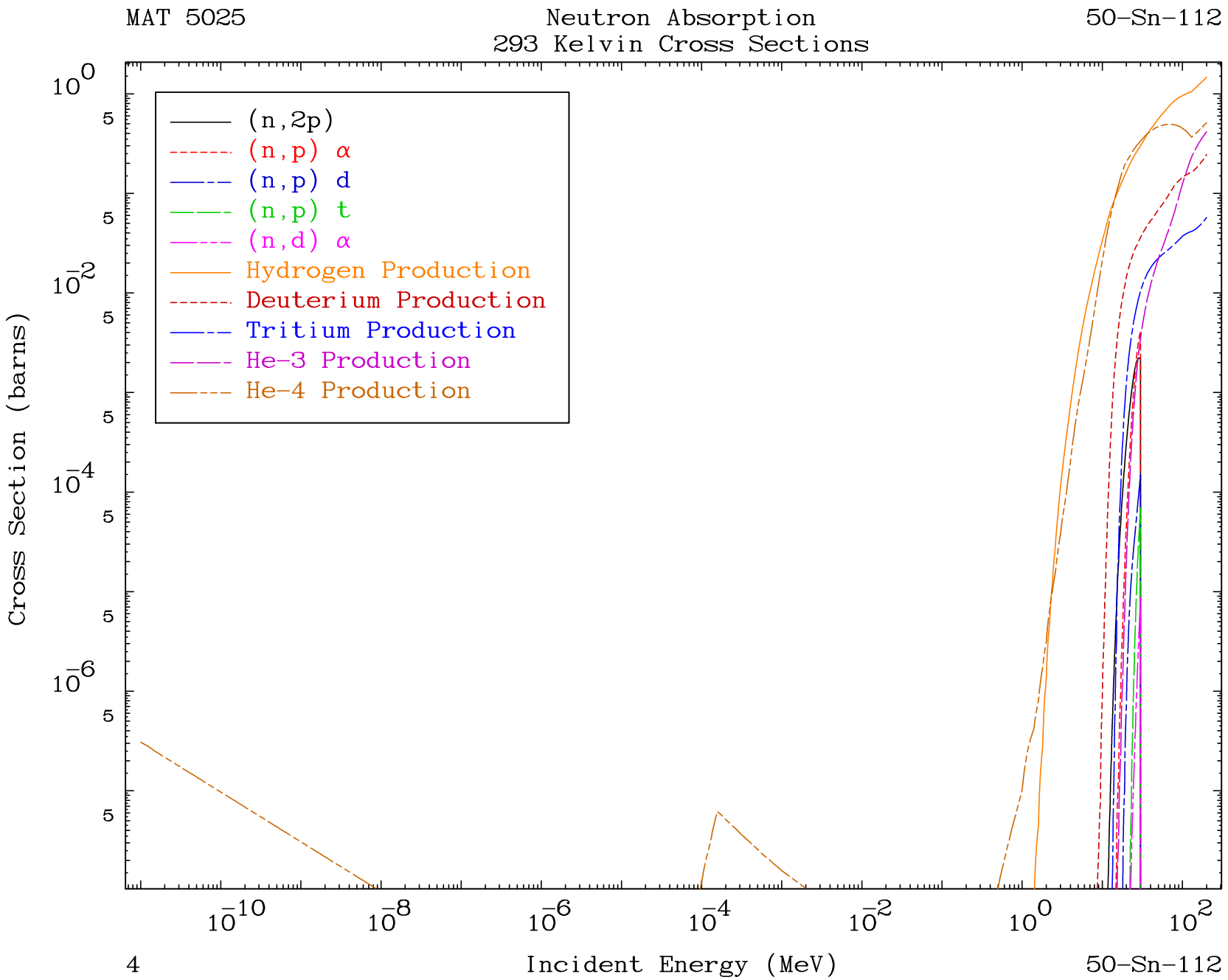
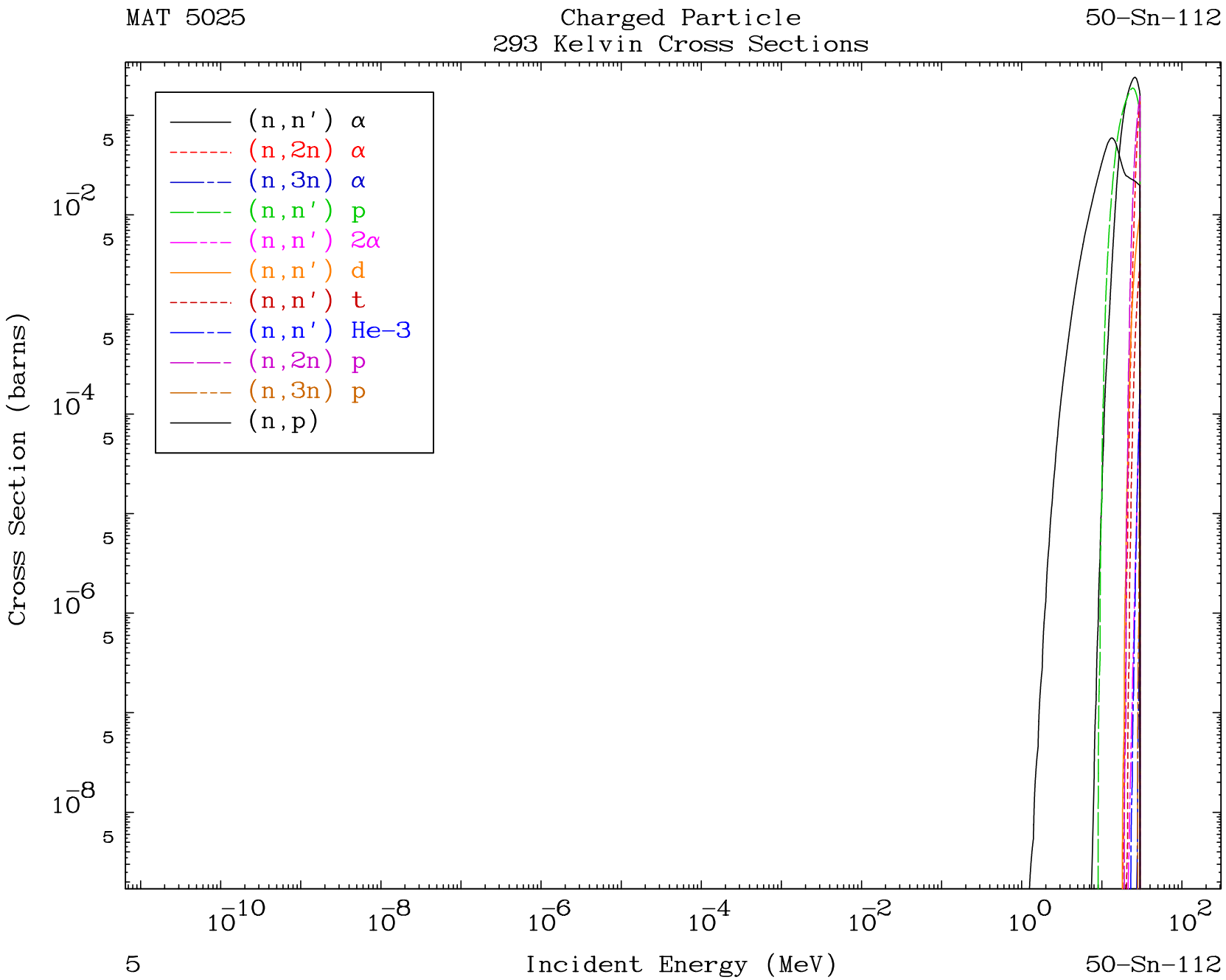
Press Mouse Button to Start

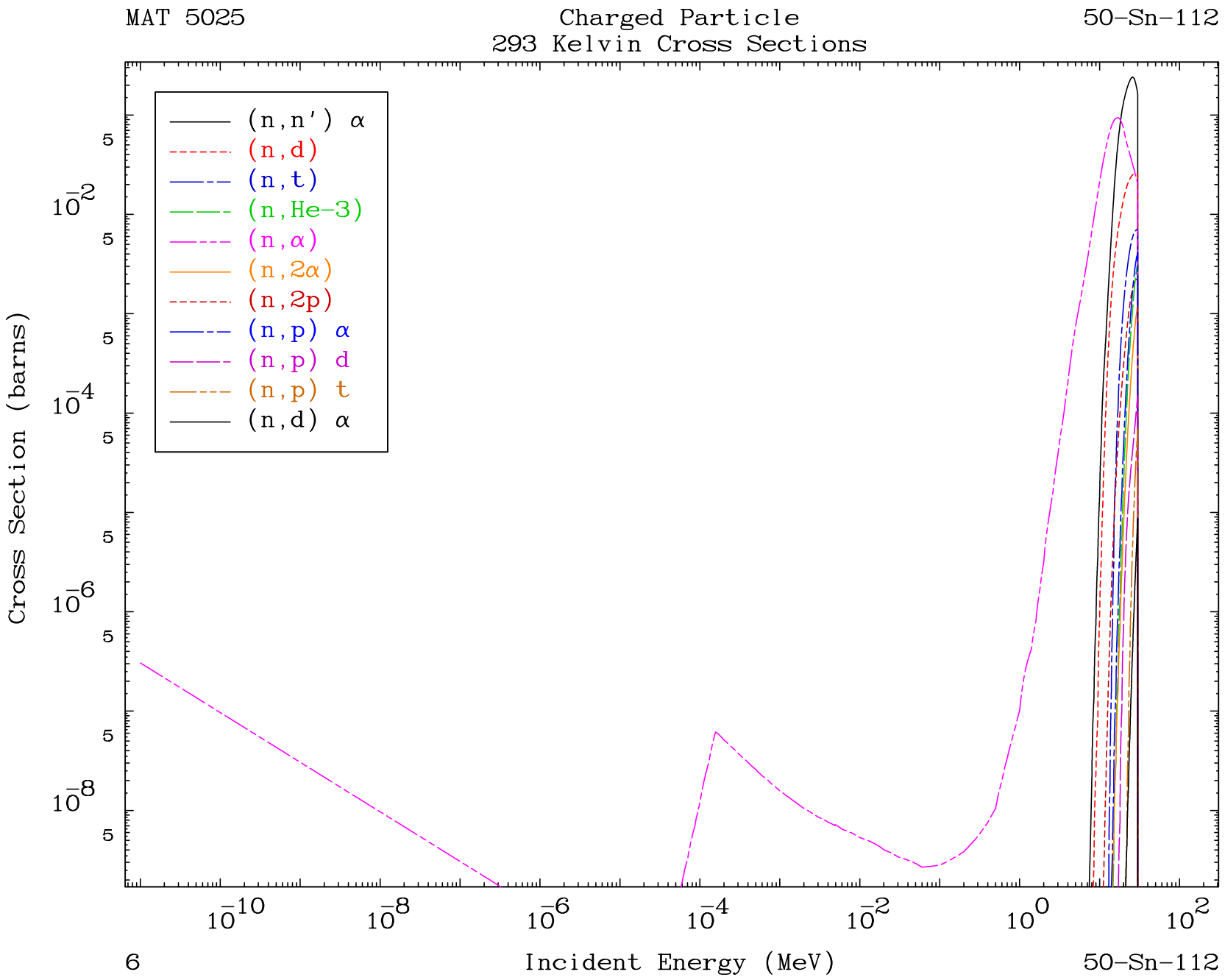

MAT 5025
Neutron Major
293 Kelvin Cross Sections
50-Sn-112
Cross Section (barns)
Incident Energy (MeV)
Total
Elastic
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)
1
50-Sn-112

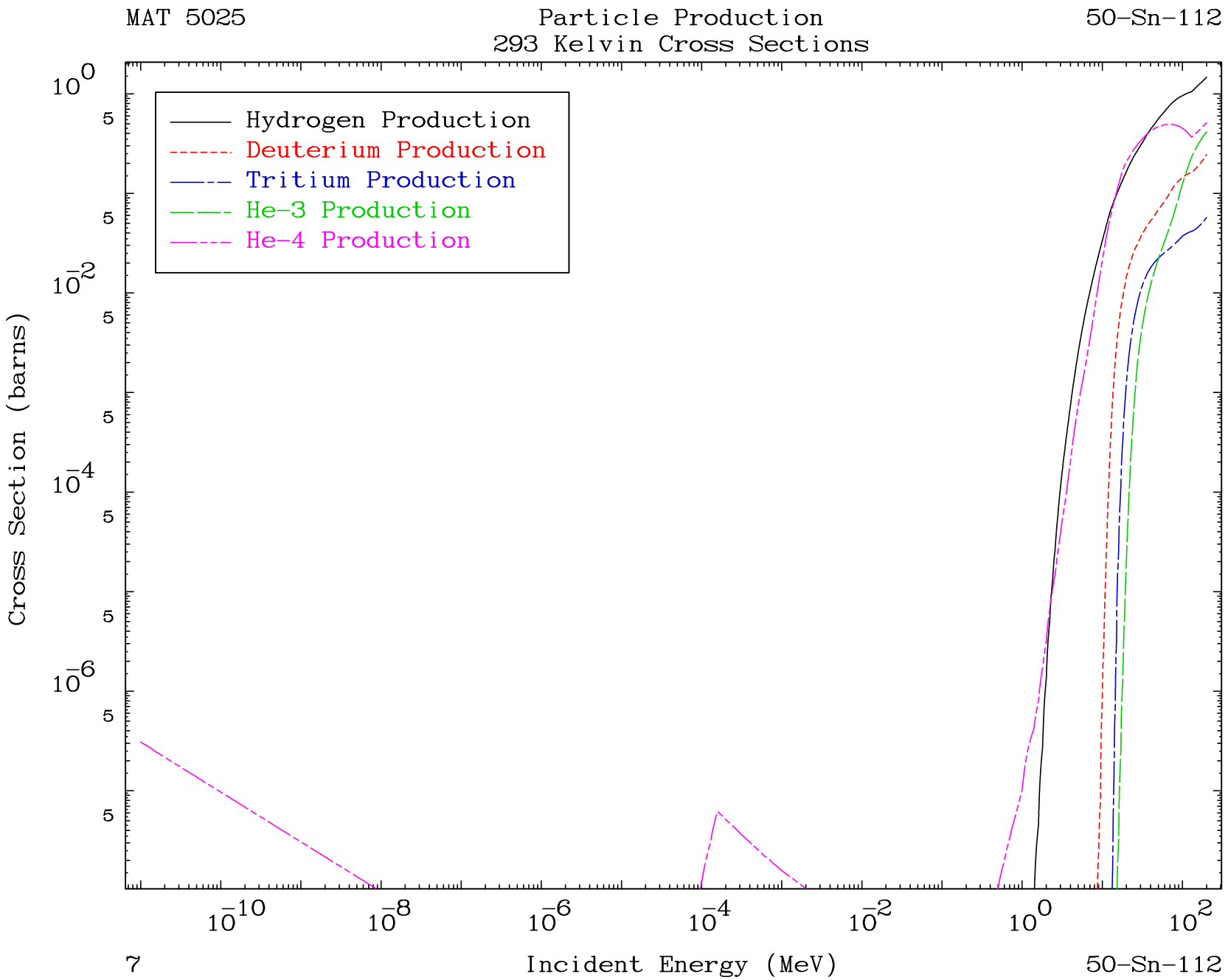

MAT 5025
Neutron Absorption
293 Kelvin Cross Sections
50-Sn-112
(n,2n) d
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
(n,n') He-3
Cross Section (barns)
Incident Energy (MeV)
50-Sn-112

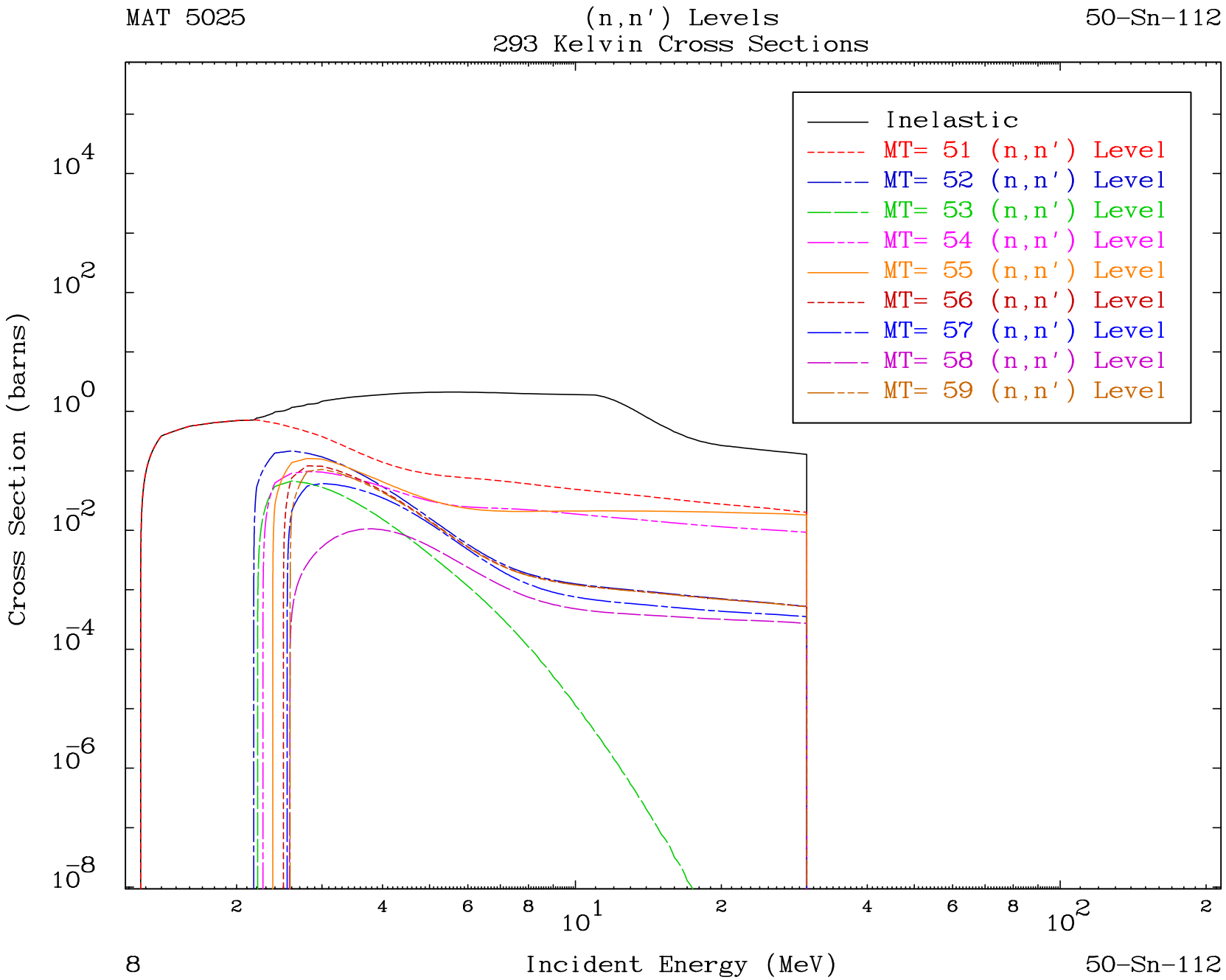

MAT 5025
Neutron Absorption
293 Kelvin Cross Sections
50-Sn-112
Cross Section (barns)
Incident Energy (MeV)
(n,2n) p
(n,3n) p
(n,2n) p
(n,n') p α
(n,γ)
(n,p)
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
3
50-Sn-112

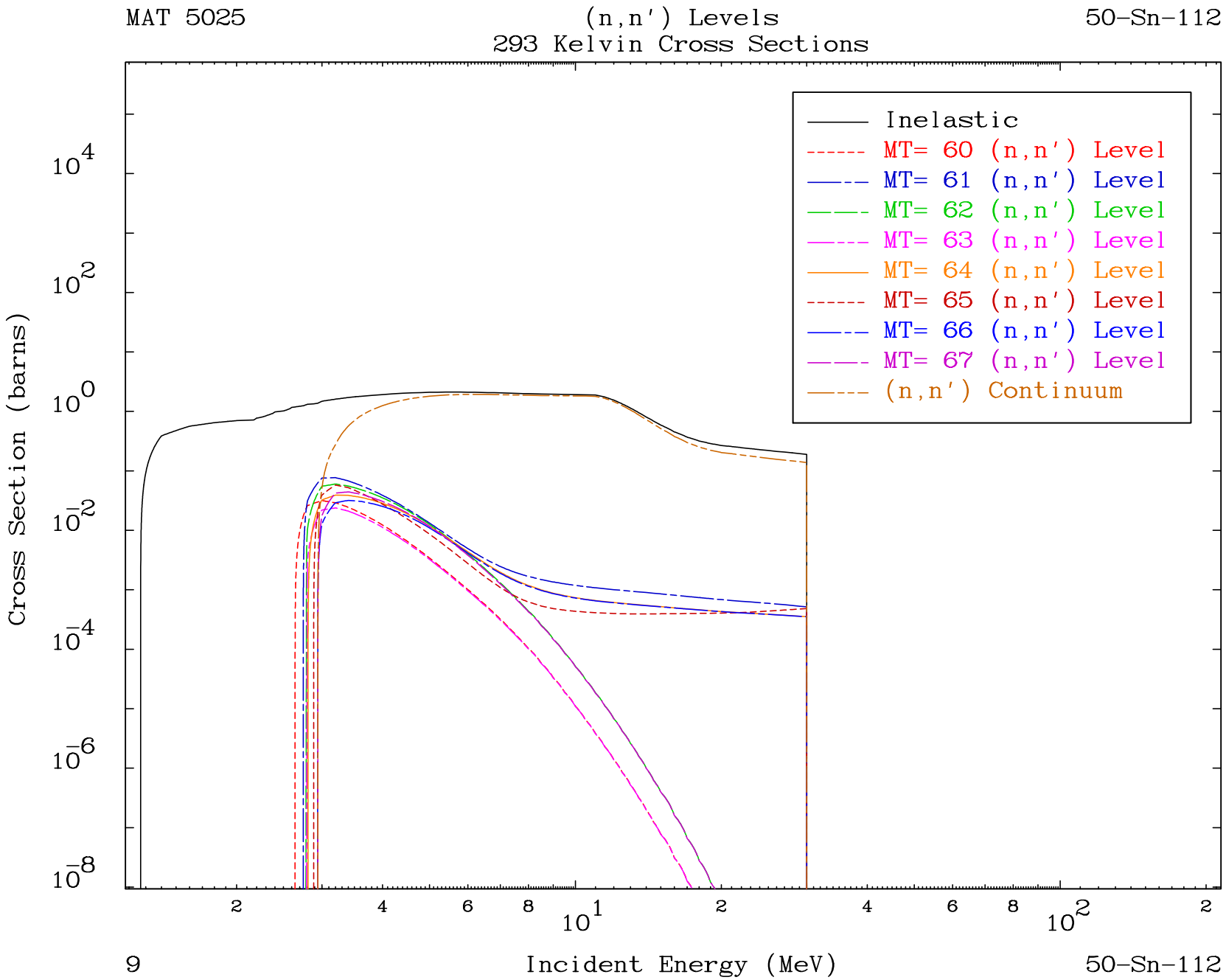

MAT 5025
Neutron Absorption
293 Kelvin Cross Sections
50-Sn-112
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production
Cross Section (barns)
Incident Energy (MeV)
4
50-Sn-112

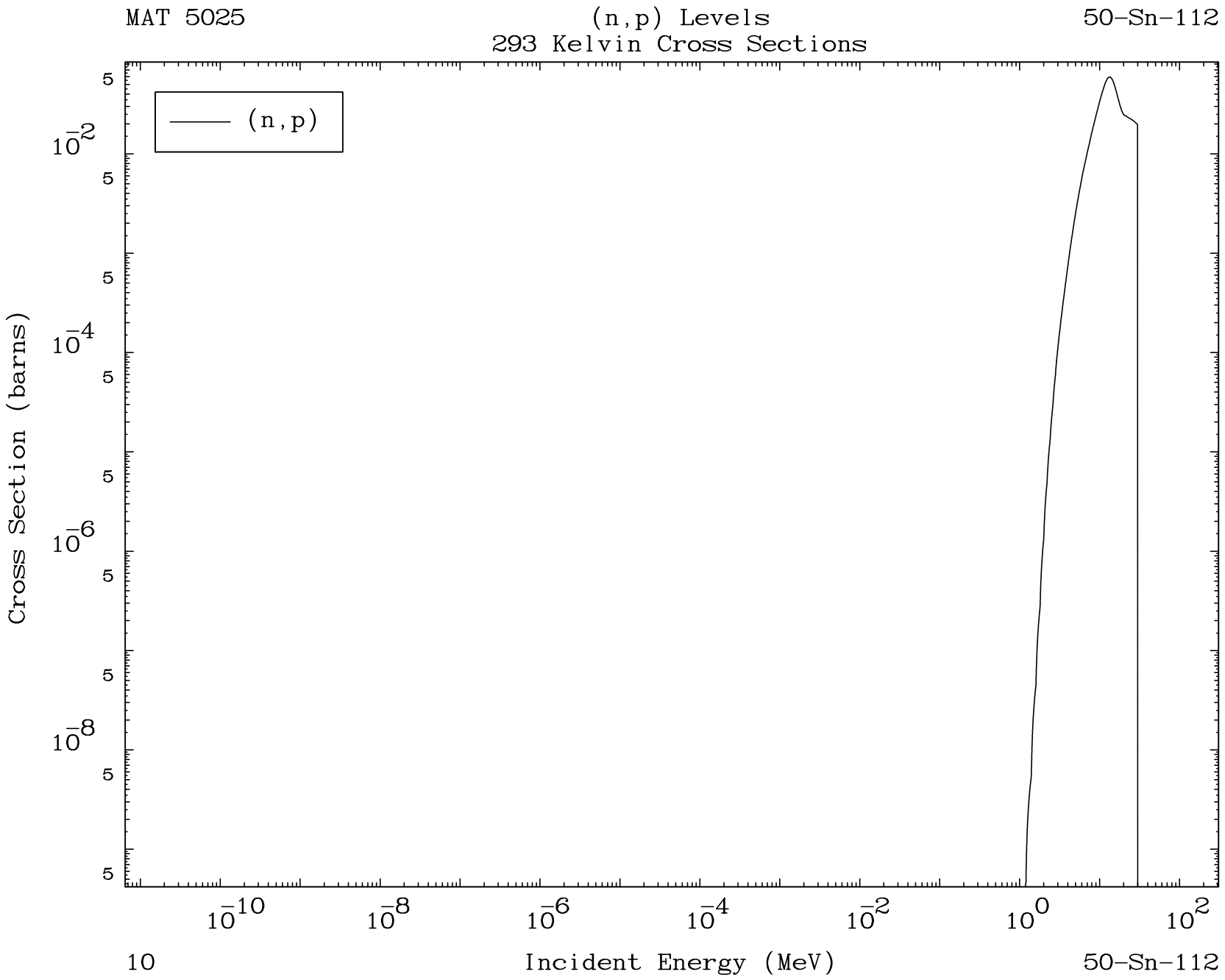

MAT 5025
Charged Particle
50-Sn-112
293 Kelvin Cross Sections
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
(n,3n) p
(n,p)
Cross Section (barns)
Incident Energy (MeV)
5
50-Sn-112

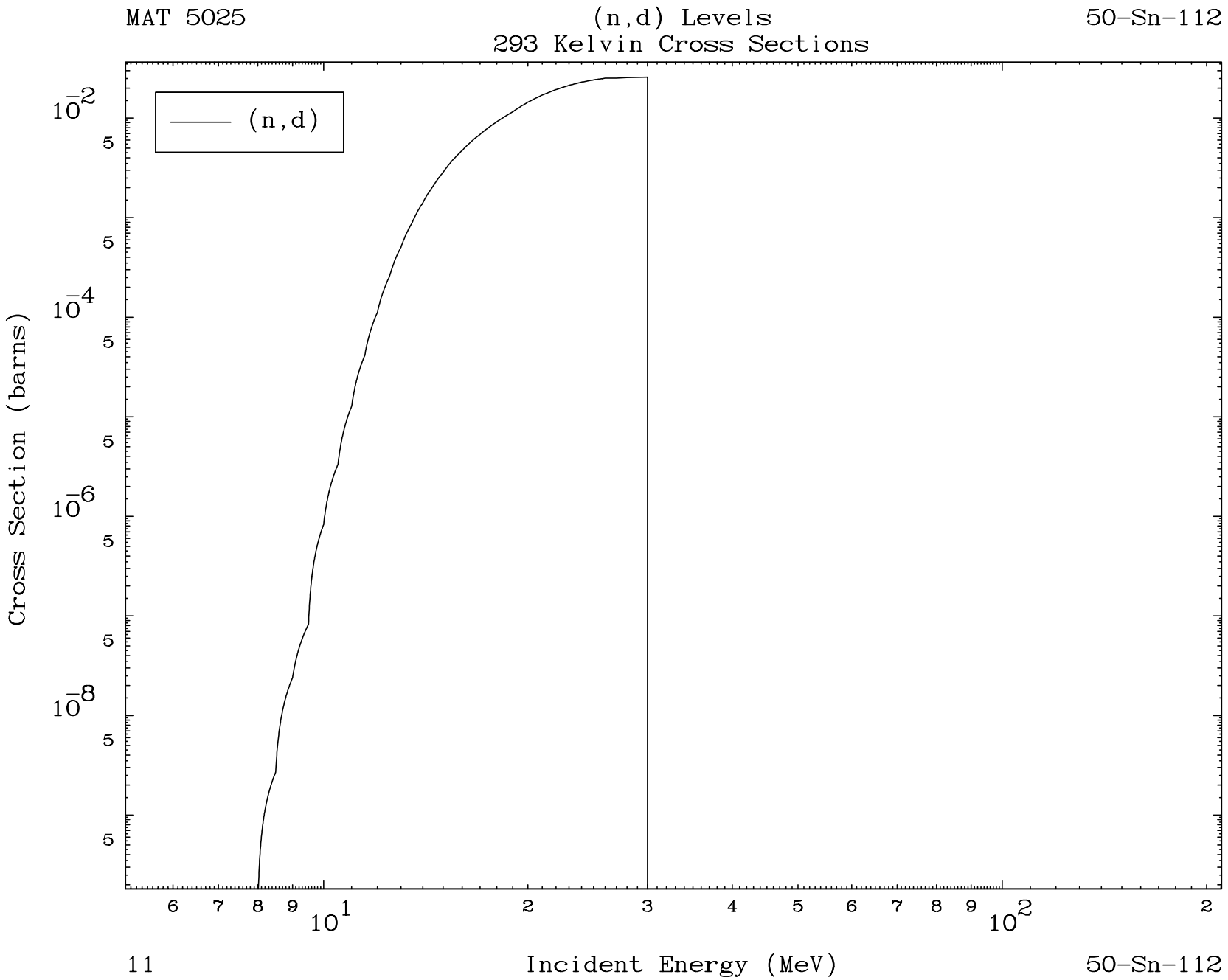

MAT 5025
Charged Particle
293 Kelvin Cross Sections
50-Sn-112
(n,n') α
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
6
50-Sn-112

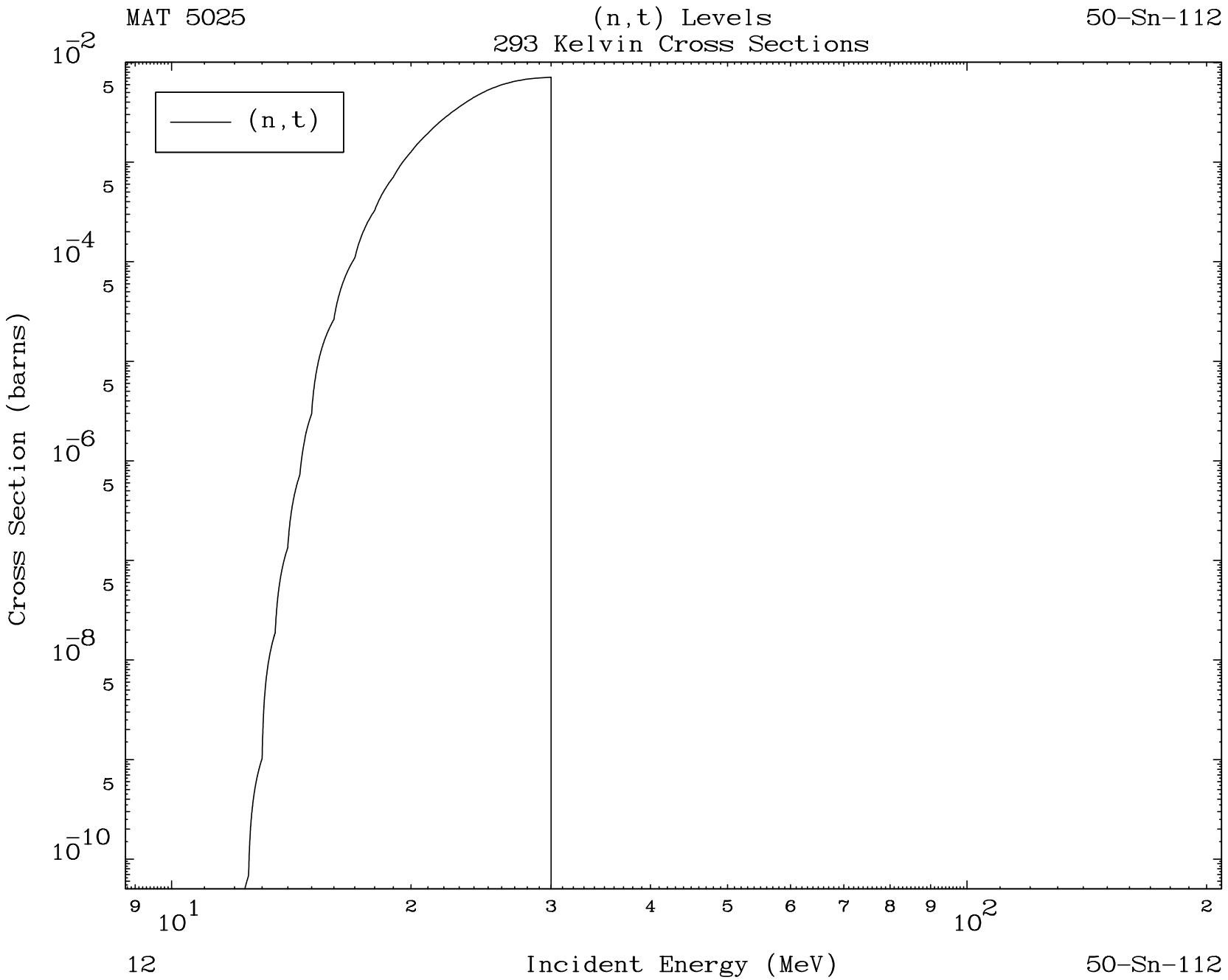

MAT 5025
Particle Production
293 Kelvin Cross Sections
50-Sn-112
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production
Cross Section (barns)
Incident Energy (MeV)
50-Sn-112
7

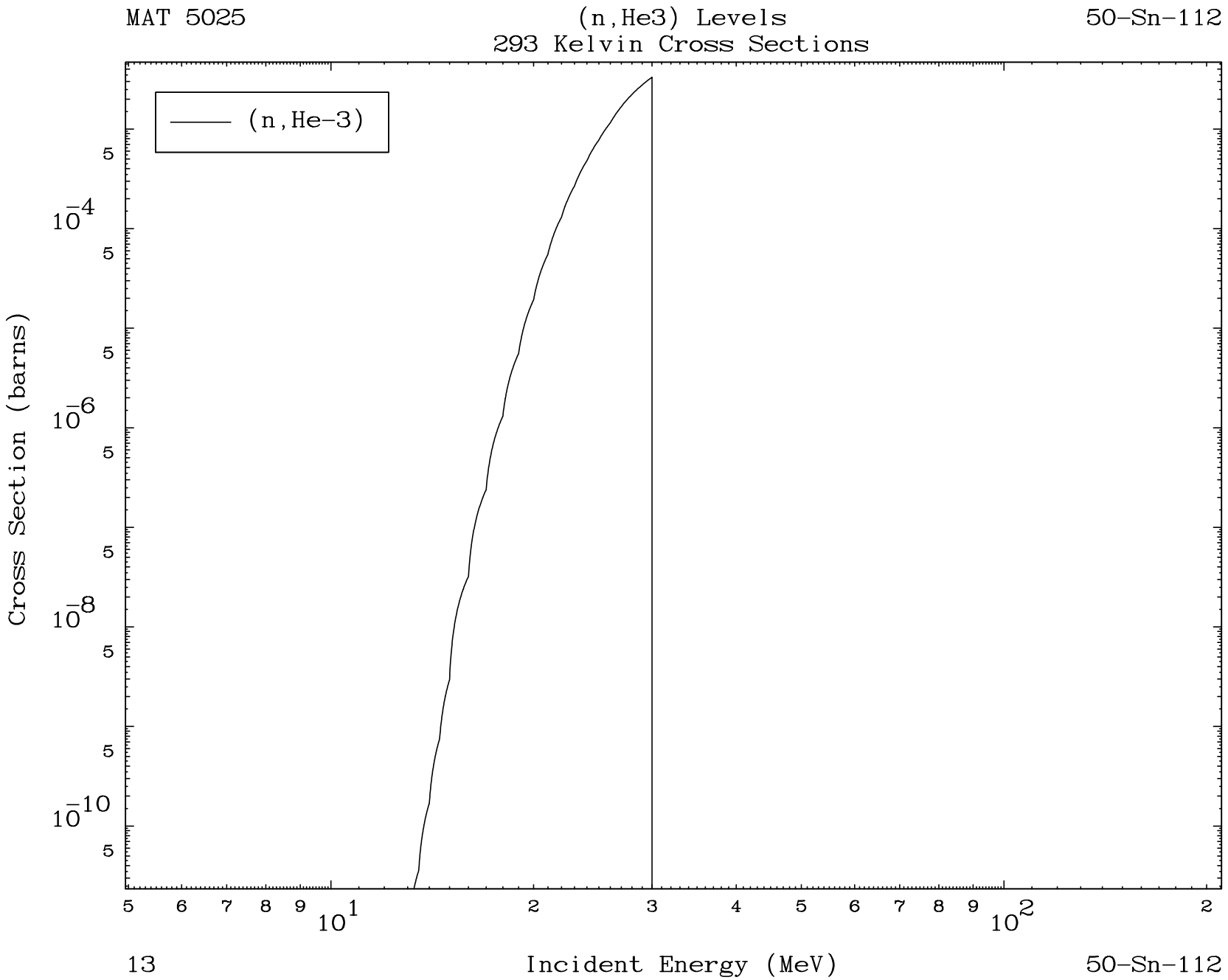

MAT 5025
(n,n') Levels
293 Kelvin Cross Sections
50-Sn-112
Inelastic
MT= 51 (n,n') Level
MT= 52 (n,n') Level
MT= 53 (n,n') Level
MT= 54 (n,n') Level
MT= 55 (n,n') Level
MT= 56 (n,n') Level
MT= 57 (n,n') Level
MT= 58 (n,n') Level
MT= 59 (n,n') Level
Cross Section (barns)
10^4
10^2
10^0
10^-2
10^-4
10^-6
10^-8
2
4
6
8
10^1
2
4
6
8
10^2
2
Incident Energy (MeV)
8
50-Sn-112

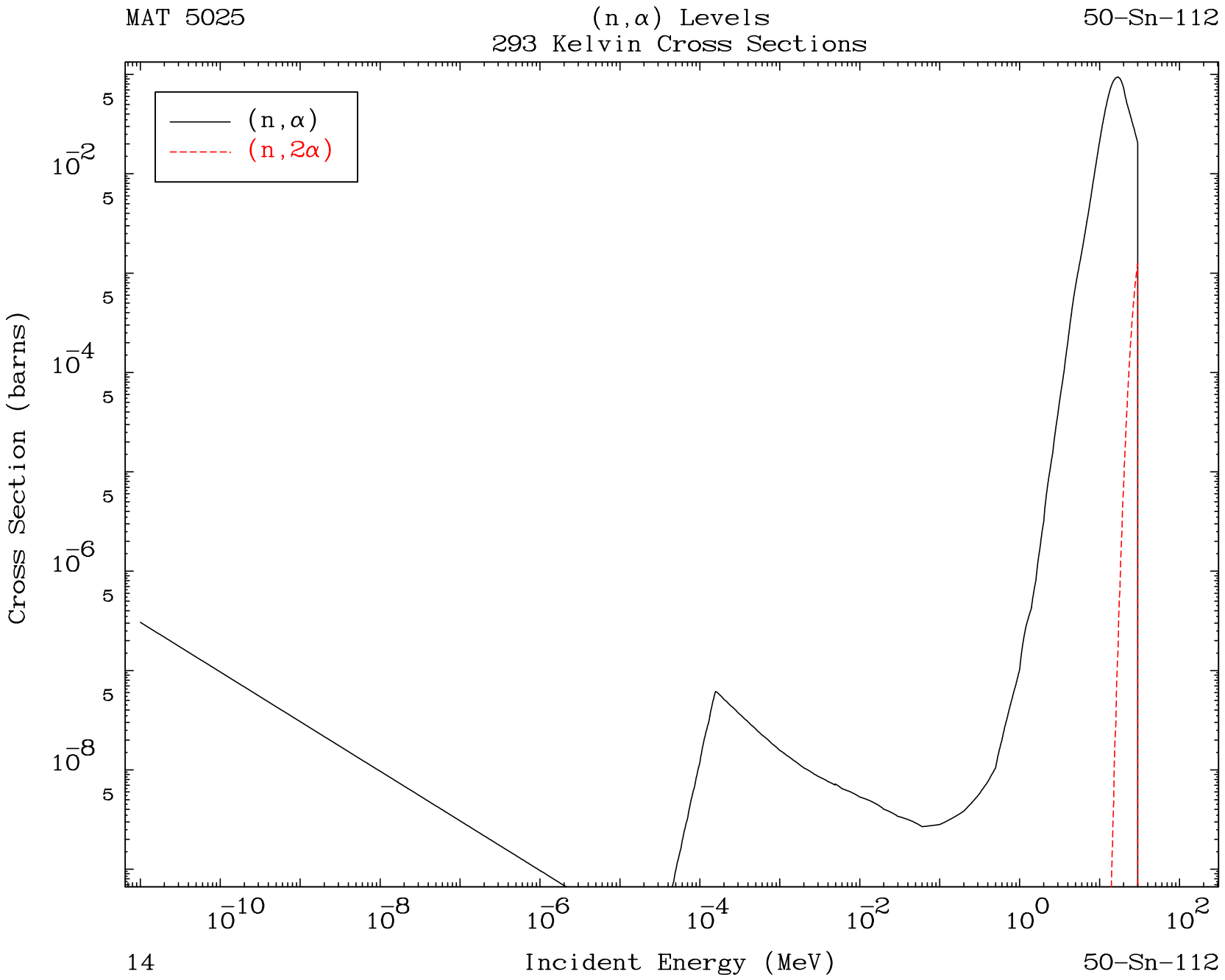

MAT 5025
(n,n') Levels
293 Kelvin Cross Sections
50-Sn-112
Inelastic
MT= 60 (n,n') Level
MT= 61 (n,n') Level
MT= 62 (n,n') Level
MT= 63 (n,n') Level
MT= 64 (n,n') Level
MT= 65 (n,n') Level
MT= 66 (n,n') Level
MT= 67 (n,n') Level
(n,n') Continuum
Cross Section (barns)
Incident Energy (MeV)
9
50-Sn-112

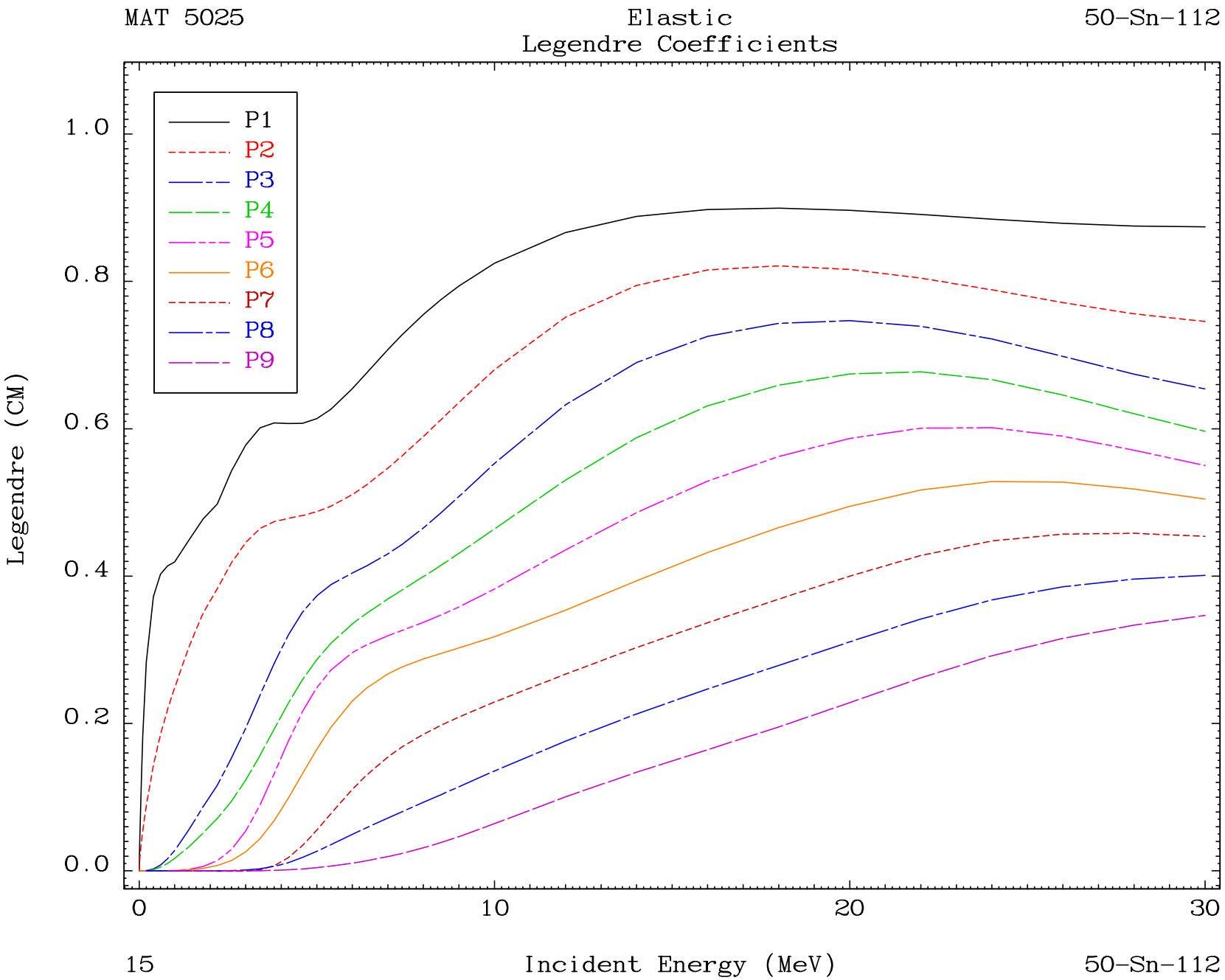

MAT 5025
(n,p) Levels
50-Sn-112
293 Kelvin Cross Sections
(n,p)
Cross Section (barns)
Incident Energy (MeV)
50-Sn-112
10

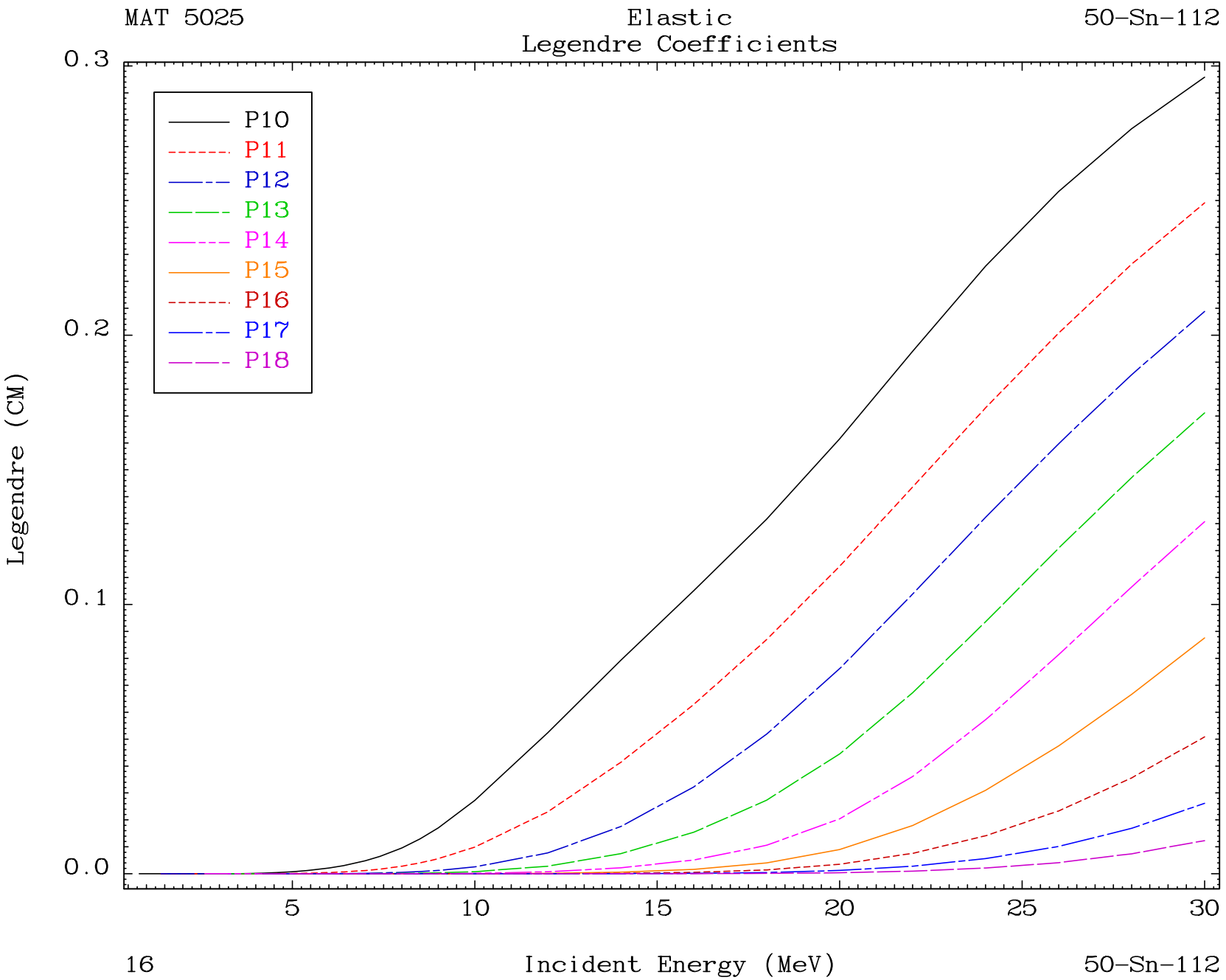

MAT 5025
(n,d) Levels
50-Sn-112
293 Kelvin Cross Sections
(n,d)
Cross Section (barns)
10^-2
10^-4
10^-6
10^-8
5
6 7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
11
Incident Energy (MeV)
50-Sn-112

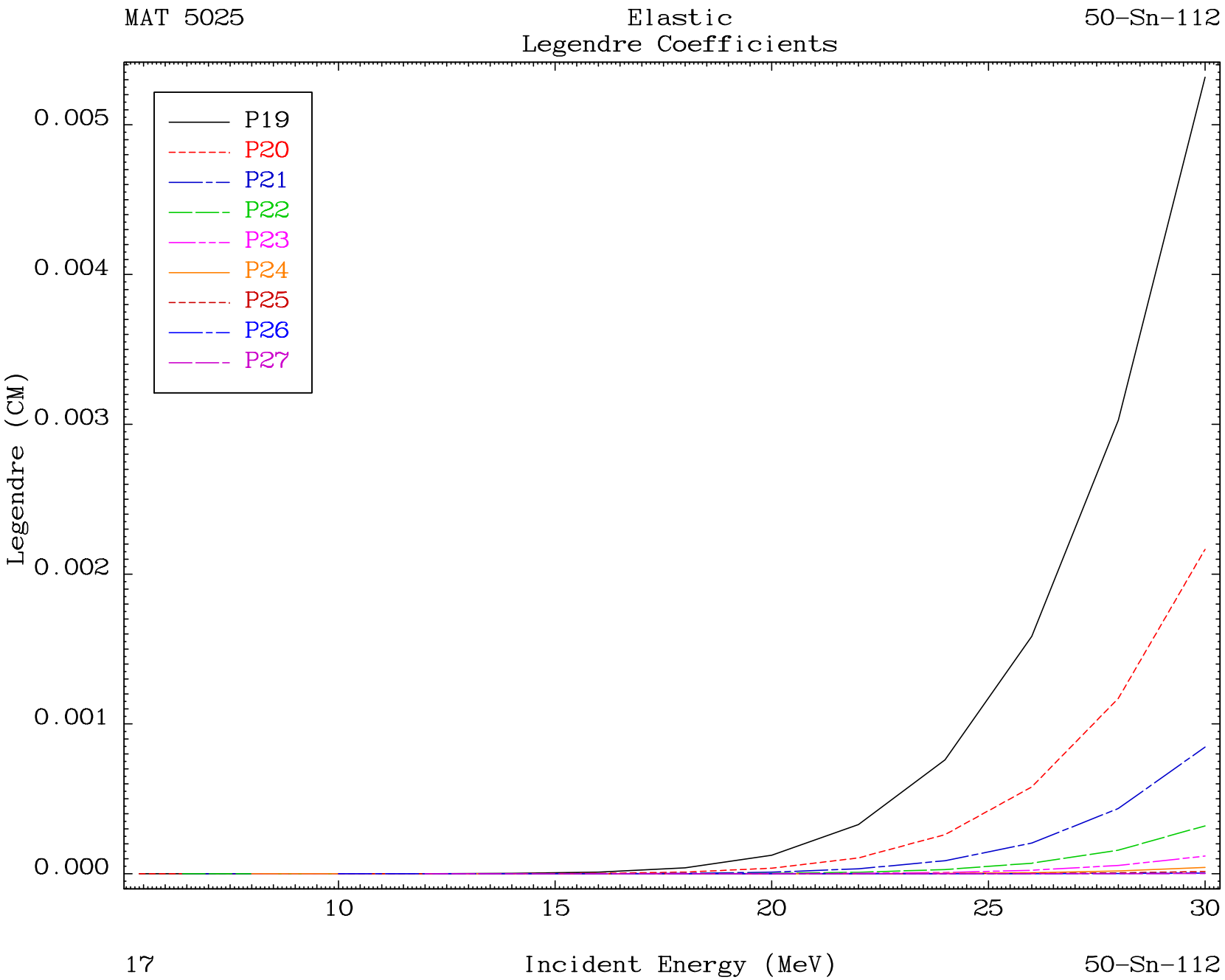

MAT 5025
(n,t) Levels
50-Sn-112
293 Kelvin Cross Sections
(n,t)
Cross Section (barns)
Incident Energy (MeV)
12
50-Sn-112

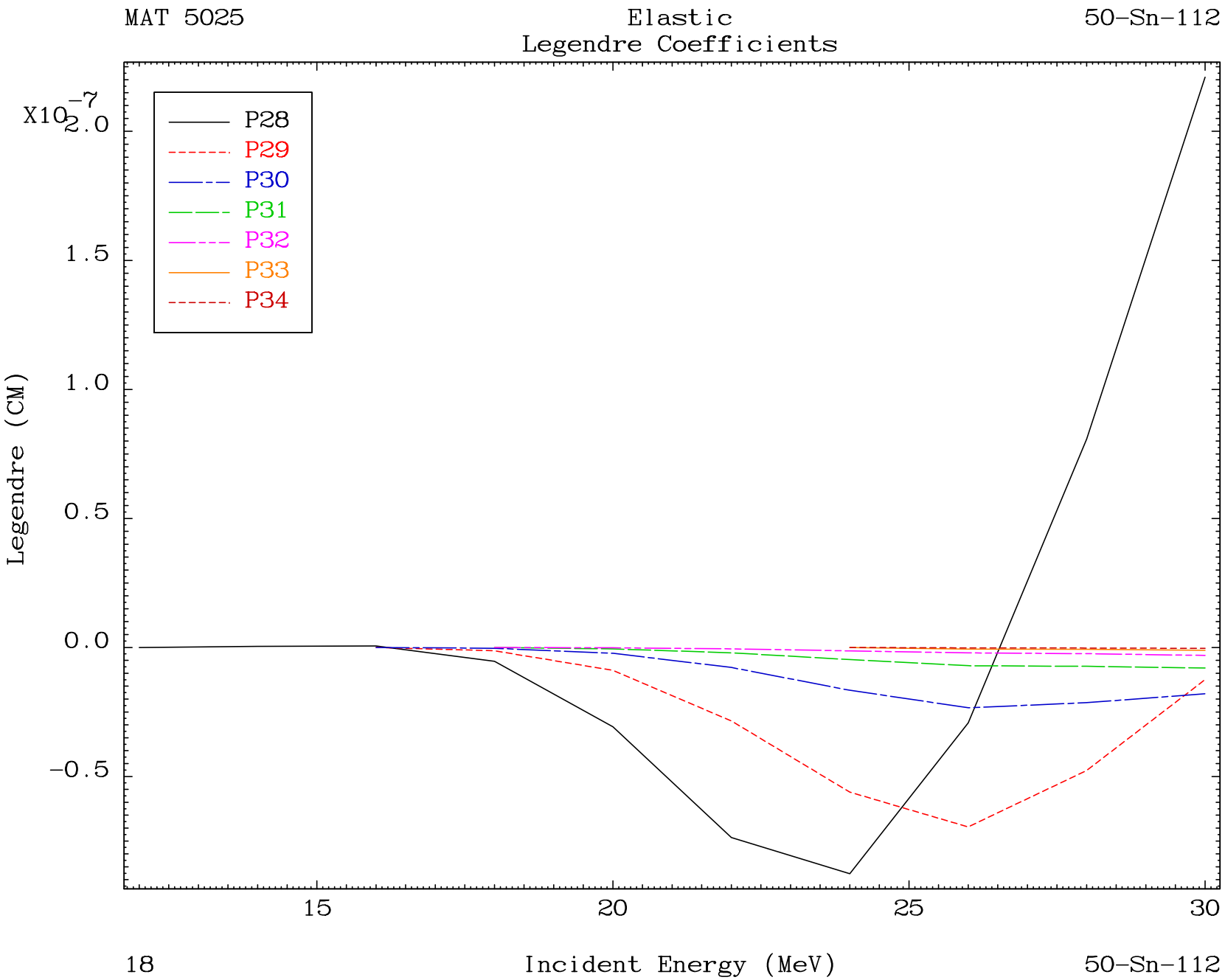

MAT 5025
(n,He3) Levels
293 Kelvin Cross Sections
50-Sn-112
(n,He-3)
Cross Section (barns)
Incident Energy (MeV)
13
50-Sn-112

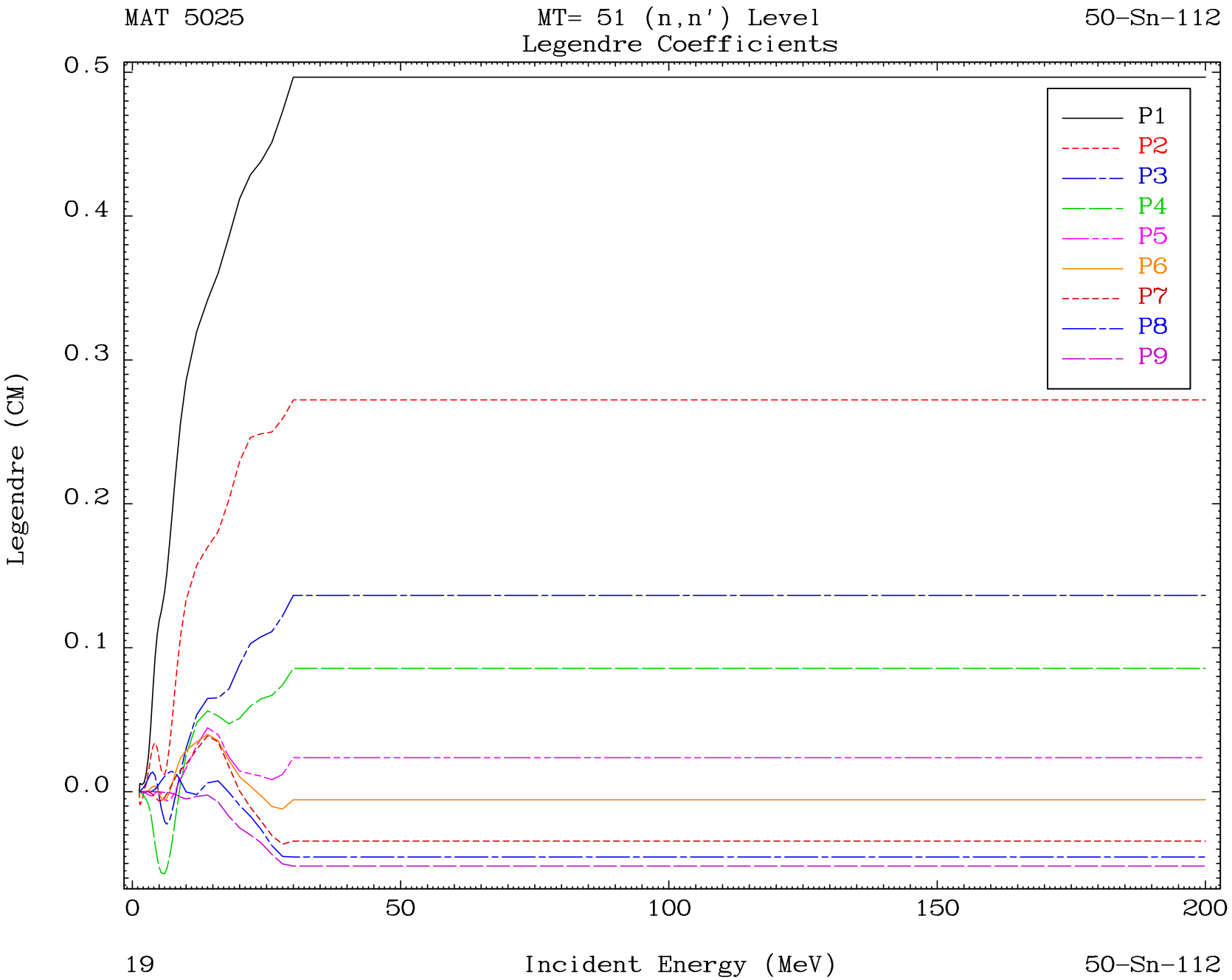

MAT 5025
(n,α) Levels
50-Sn-112
293 Kelvin Cross Sections
(n,α)
(n,2α)
Cross Section (barns)
Incident Energy (MeV)
14
50-Sn-112

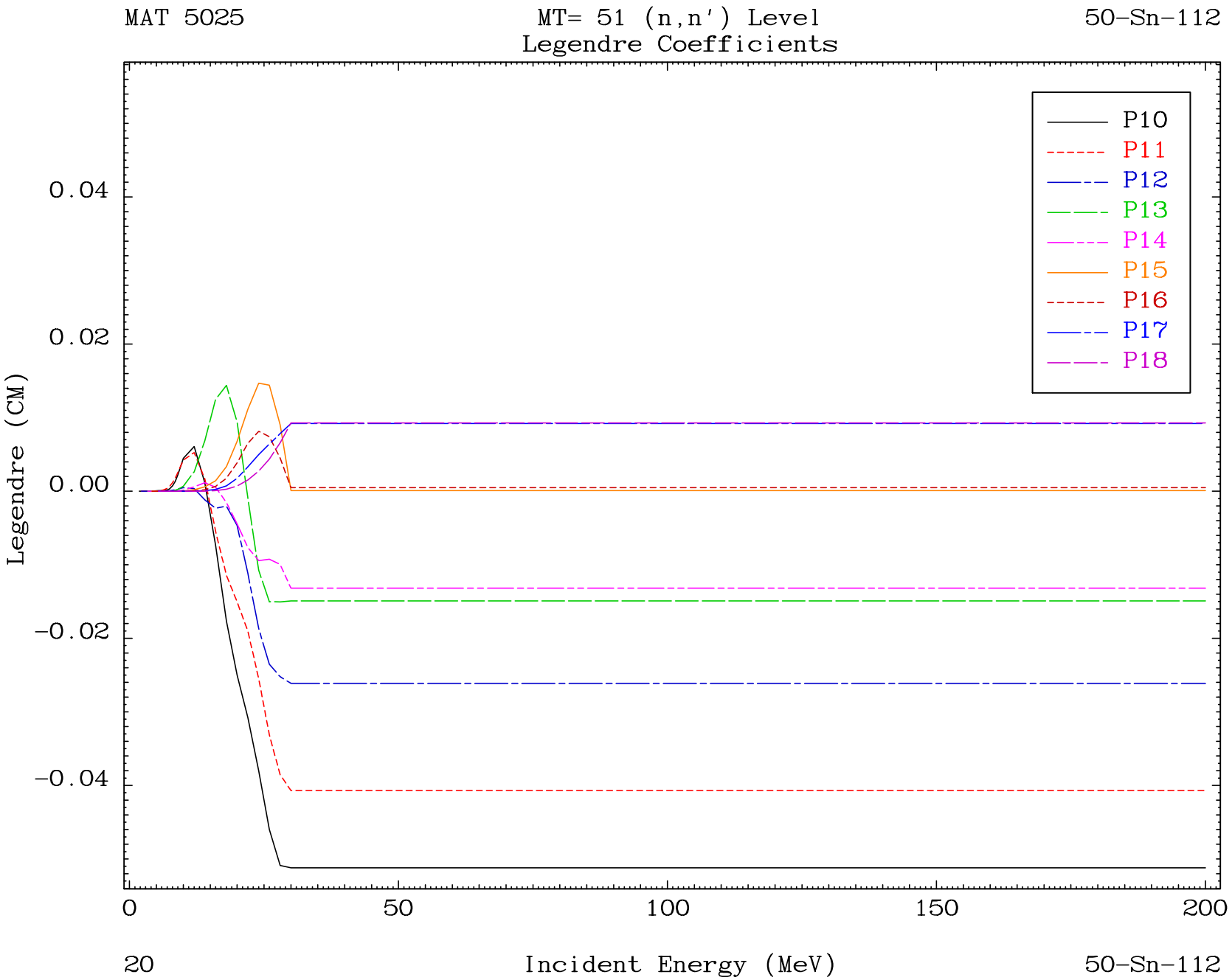

MAT 5025
Elastic
Legendre Coefficients
50-Sn-112
P1
P2
P3
P4
P5
P6
P7
P8
P9
Legendre (CM)
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
15
Incident Energy (MeV)
50-Sn-112

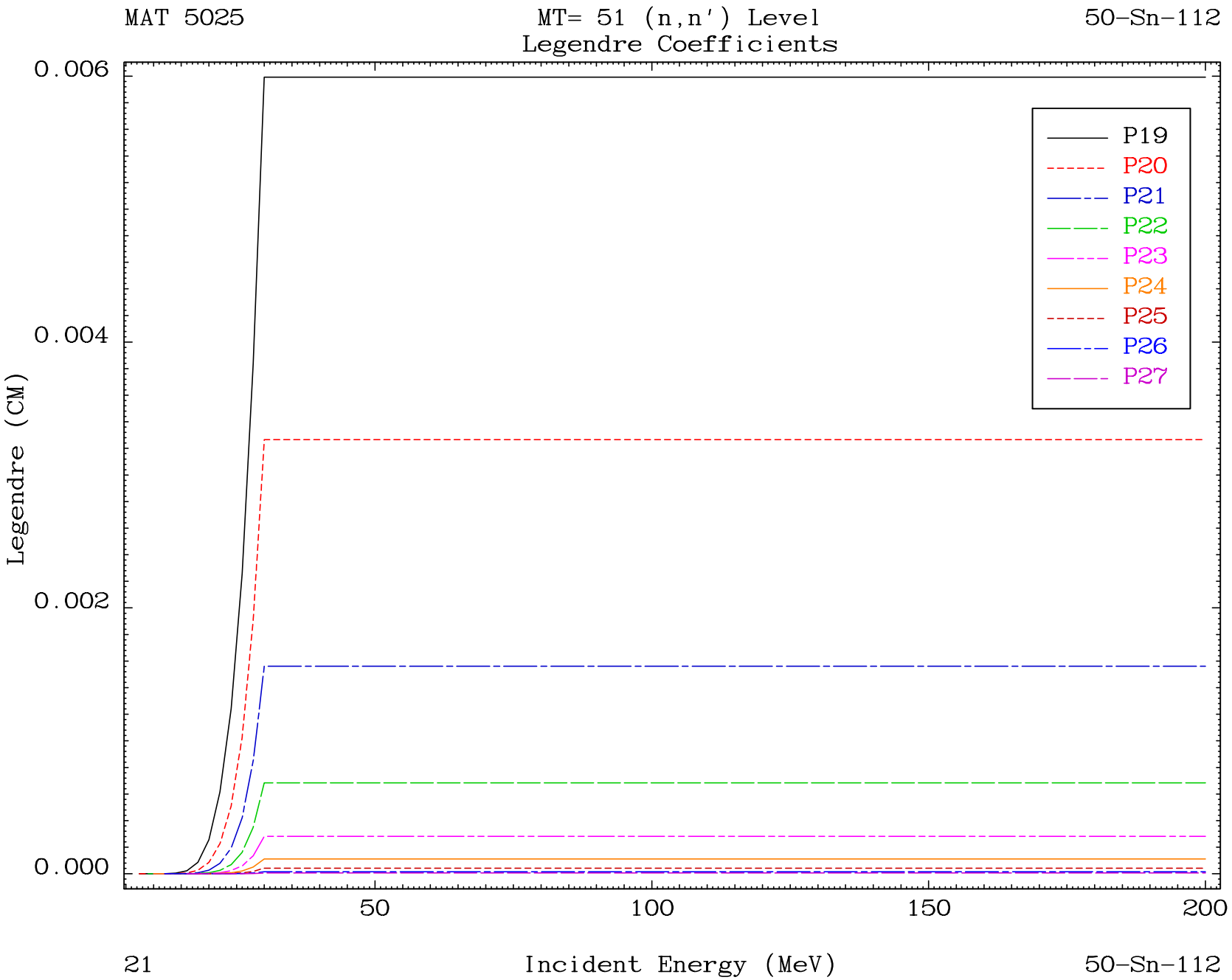

MAT 5025
Elastic
Legendre Coefficients
50-Sn-112
P10
P11
P12
P13
P14
P15
P16
P17
P18
Legendre (CM)
0.3
0.2
0.1
0.0
5
10
15
20
25
30
16
Incident Energy (MeV)
50-Sn-112

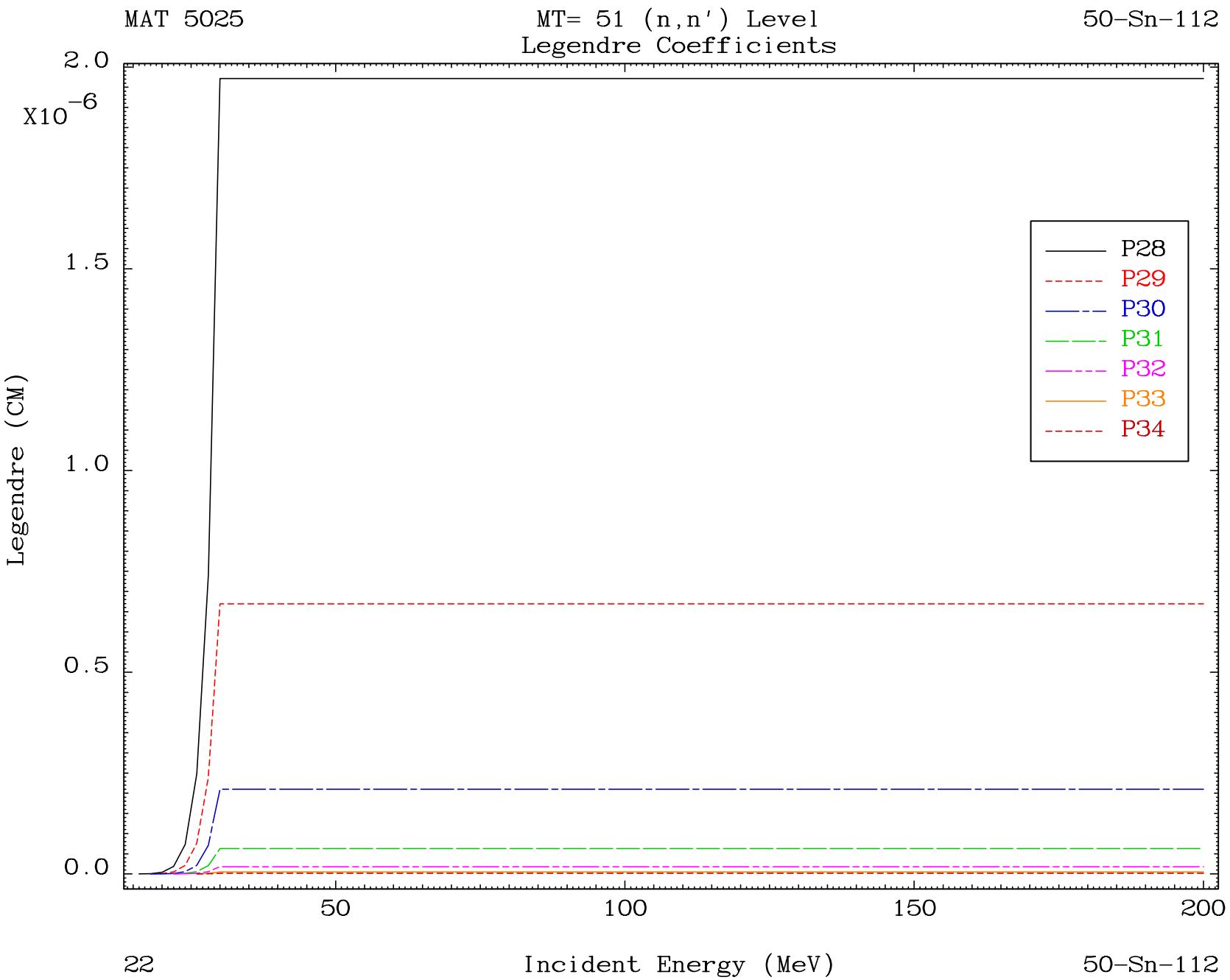

MAT 5025
Elastic
Legendre Coefficients
50-Sn-112
P19
P20
P21
P22
P23
P24
P25
P26
P27
0.005
0.004
0.003
0.002
0.001
0.000
Legendre (CM)
10
15
20
25
30
17
Incident Energy (MeV)
50-Sn-112

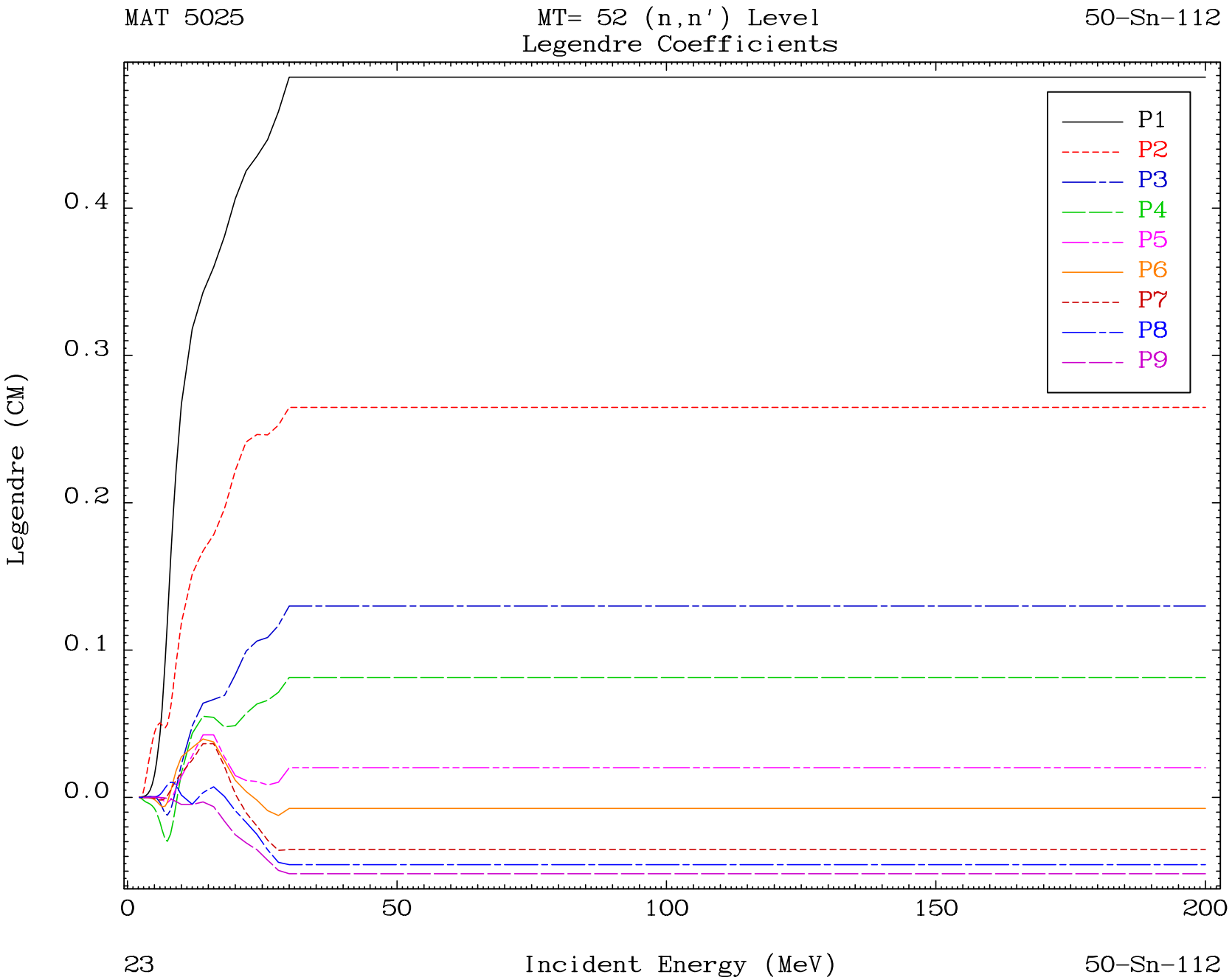

MAT 5025
Elastic
Legendre Coefficients
50-Sn-112
X10-7
2.0
1.5
1.0
0.5
0.0
-0.5
P28
P29
P30
P31
P32
P33
P34
Legendre (CM)
15
20
25
30
18
Incident Energy (MeV)
50-Sn-112

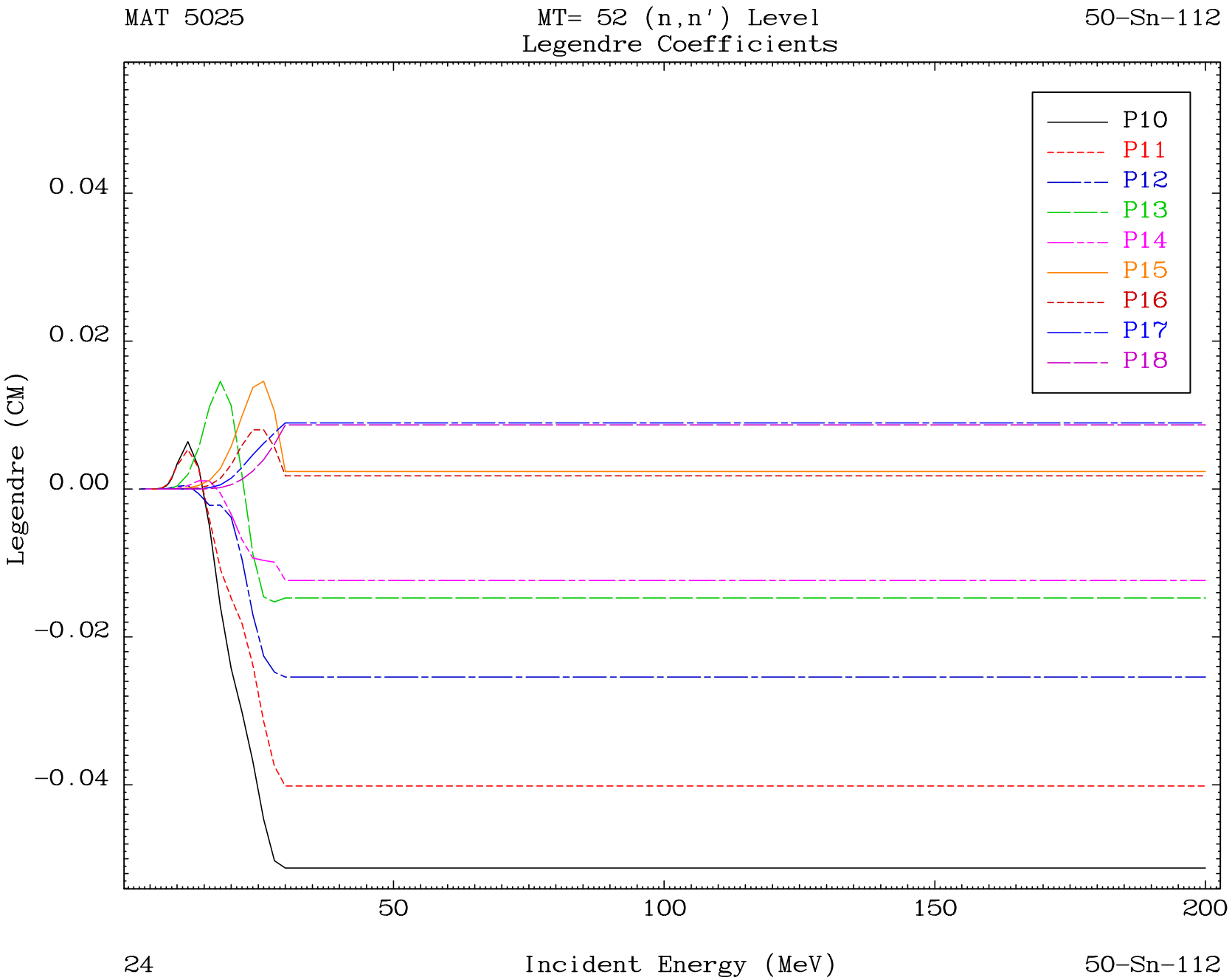

MAT 5025
MT= 51 (n,n') Level
Legendre Coefficients
50-Sn-112
0.5
0.4
0.3
0.2
0.1
0.0
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
19
Incident Energy (MeV)
50-Sn-112

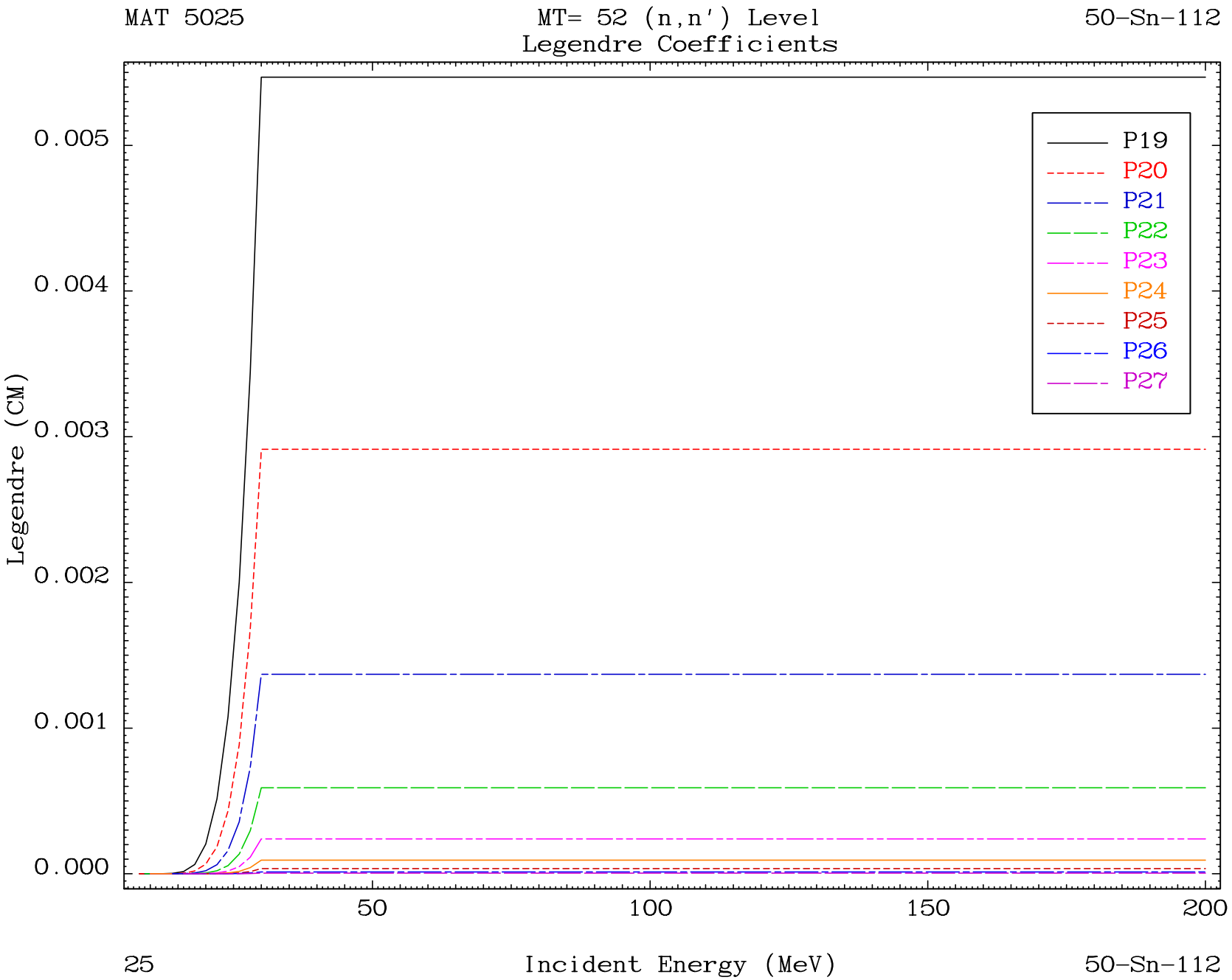

MAT 5025
MT= 51 (n,n') Level
Legendre Coefficients
50-Sn-112
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.04
0.02
0.00
-0.02
-0.04
Legendre (CM)
0
50
100
150
200
20
Incident Energy (MeV)
50-Sn-112

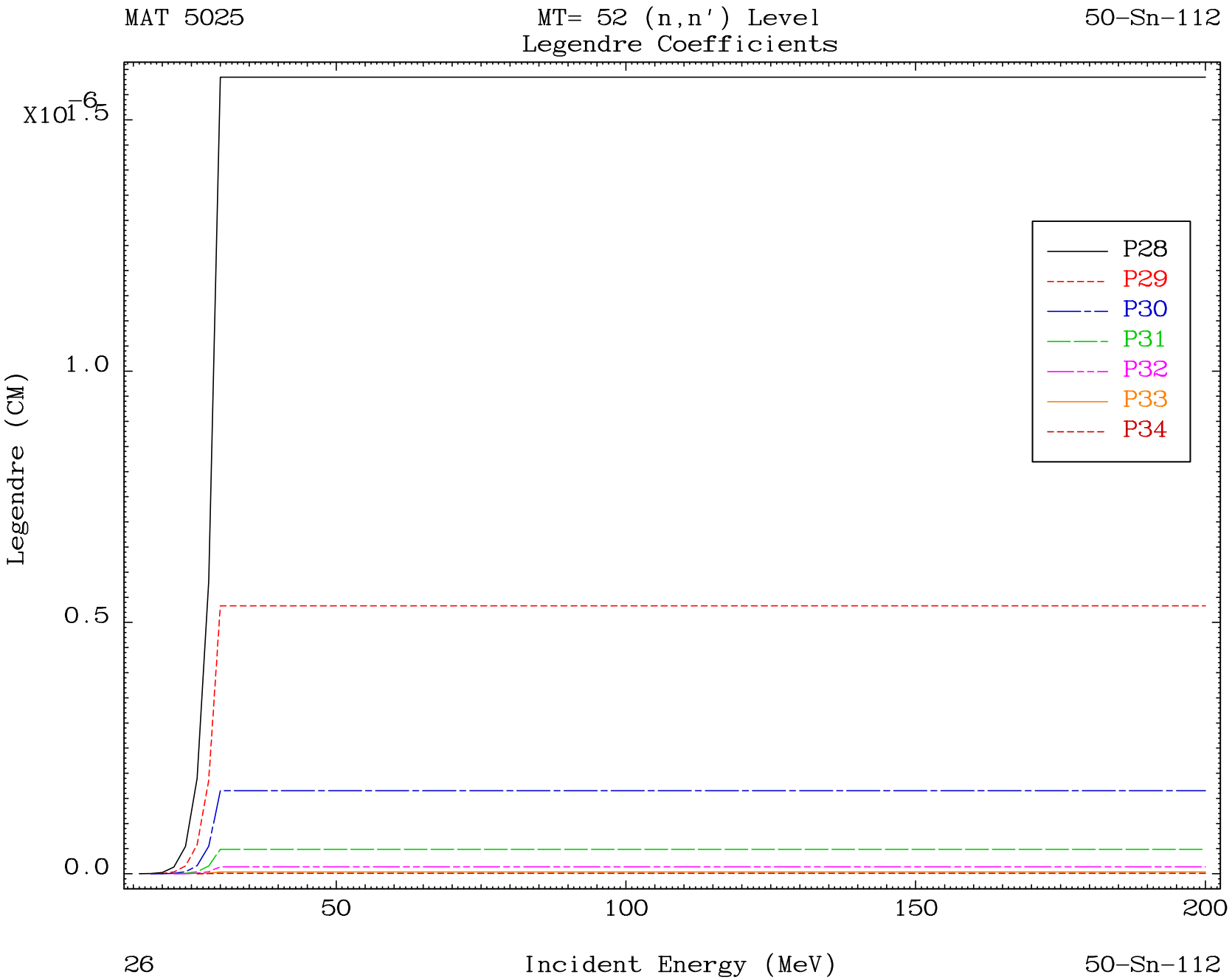

MAT 5025
MT= 51 (n,n') Level
Legendre Coefficients
50-Sn-112
0.006
0.004
0.002
0.000
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
21
Incident Energy (MeV)
50-Sn-112

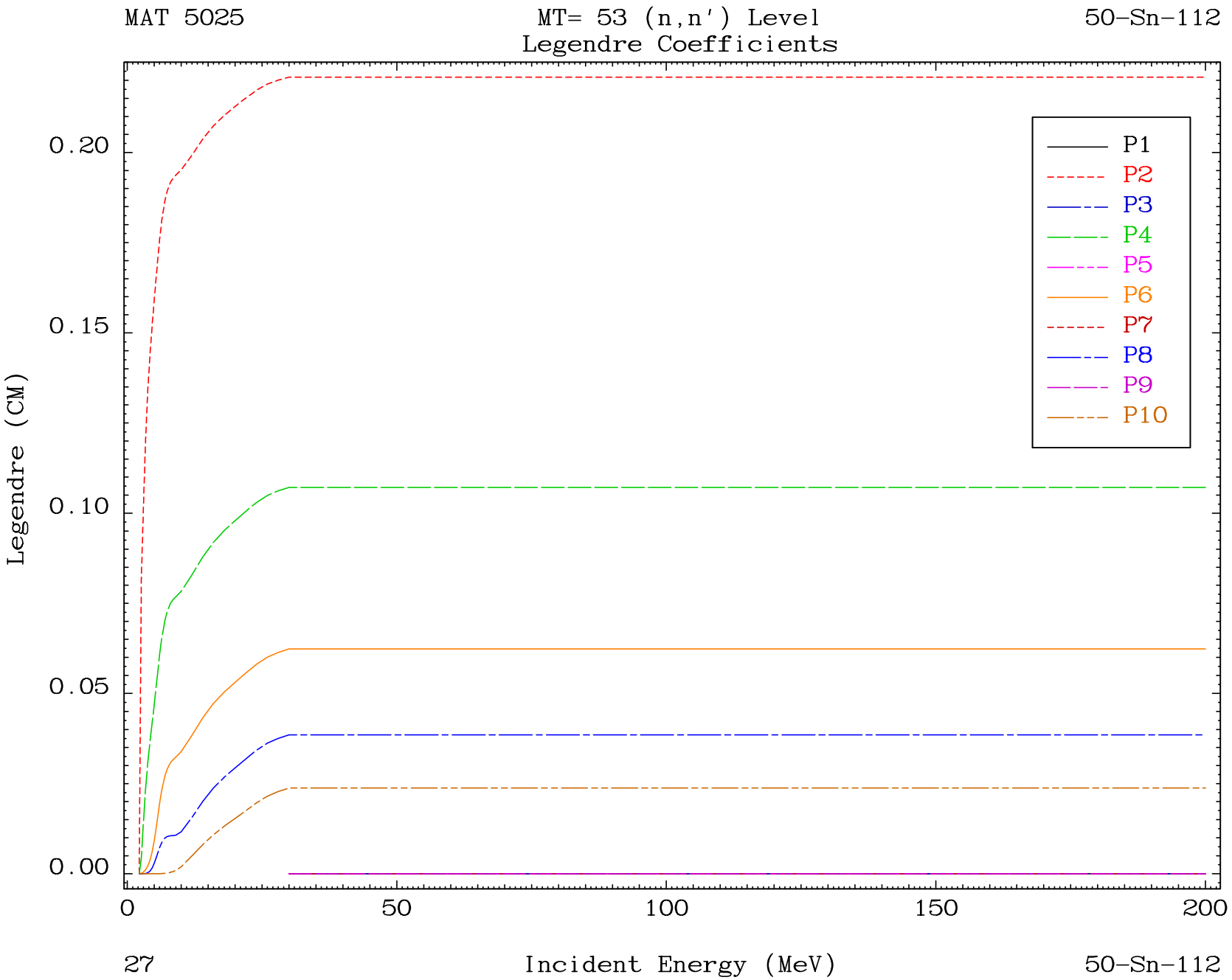

MAT 5025
MT= 51 (n,n') Level
Legendre Coefficients
50-Sn-112
2.0
X10^-6
1.5
1.0
0.5
0.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
22
Incident Energy (MeV)
50-Sn-112

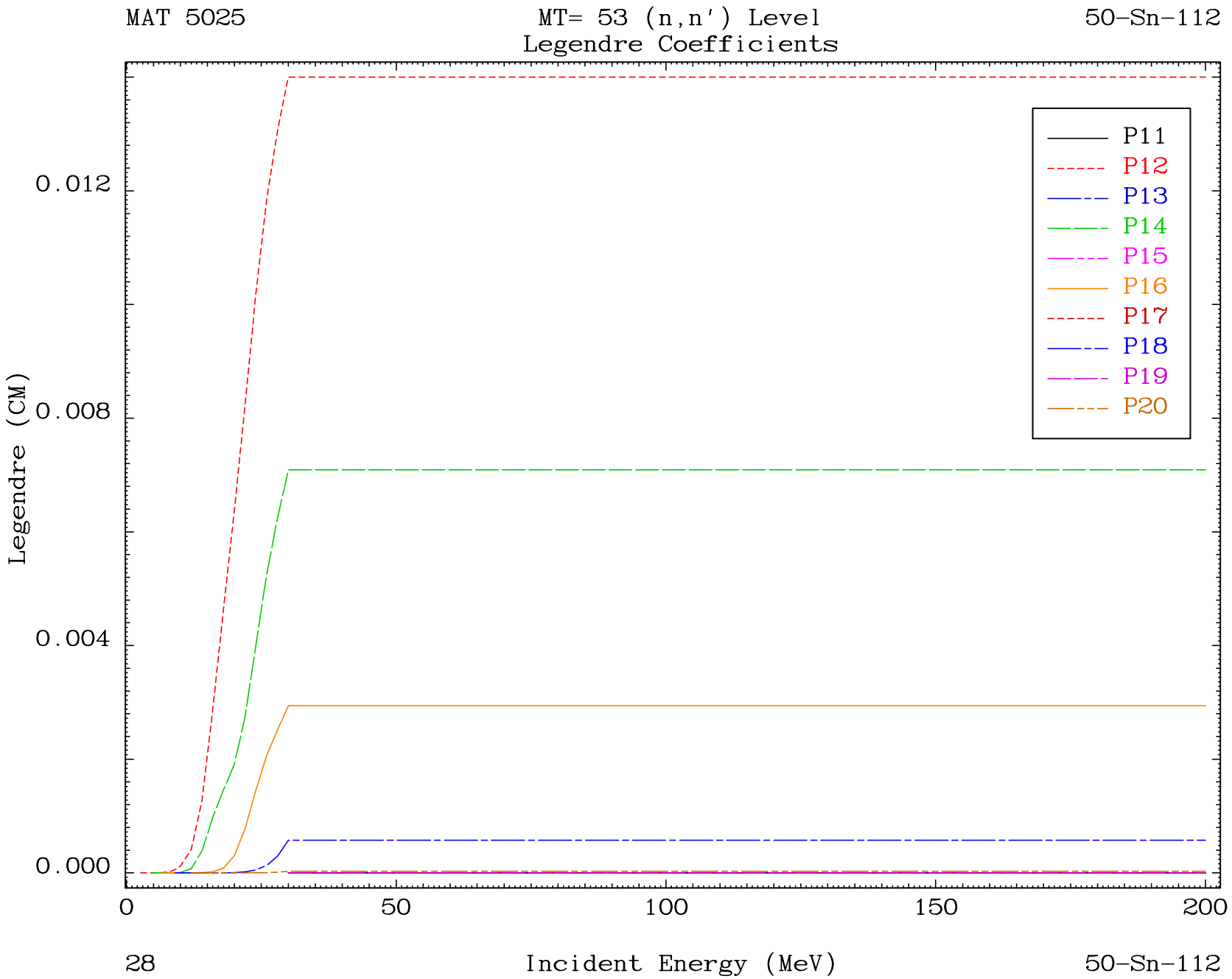

MAT 5025
MT= 52 (n,n') Level
Legendre Coefficients
50-Sn-112
P1
P2
P3
P4
P5
P6
P7
P8
P9
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
23
Incident Energy (MeV)
50-Sn-112

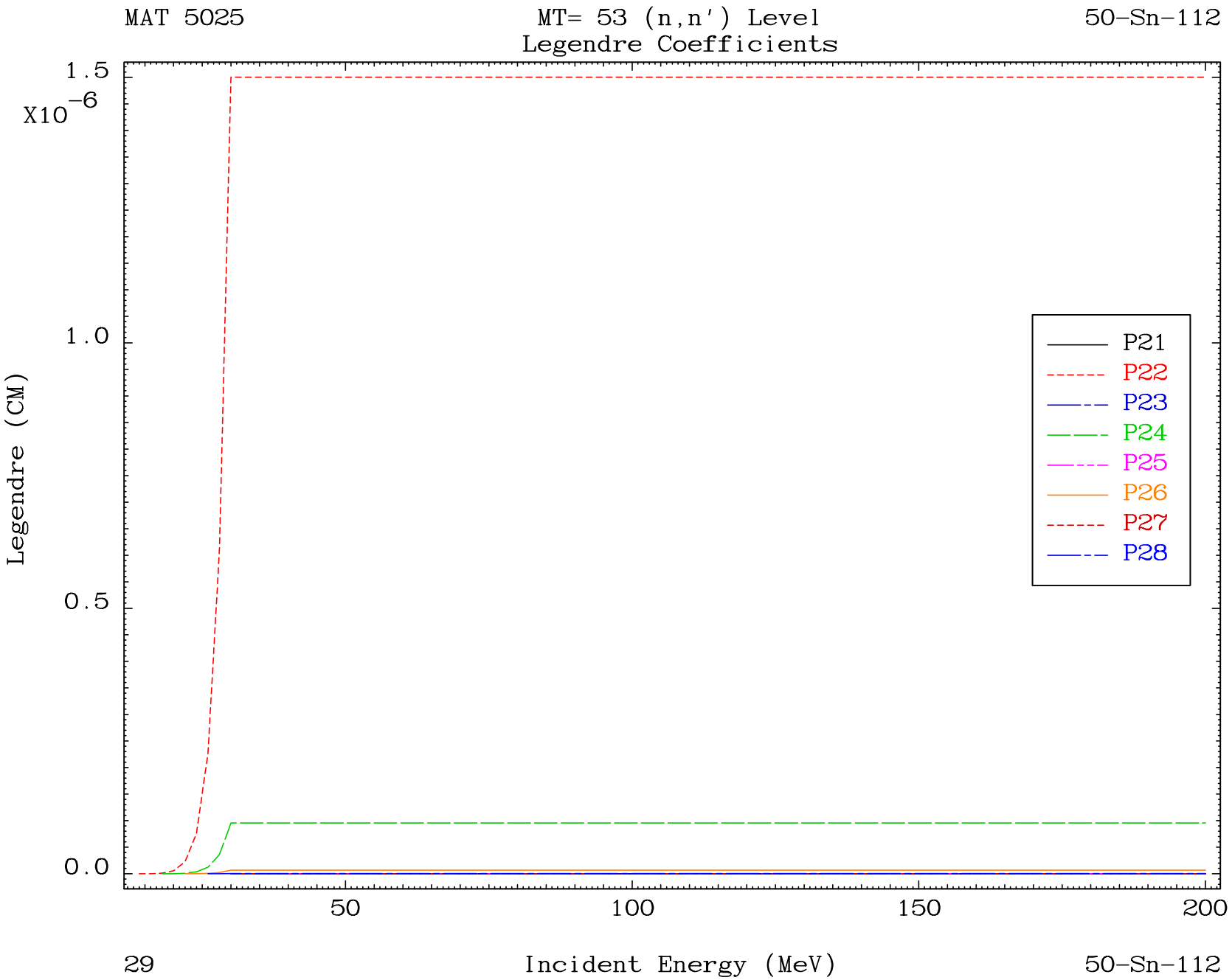

MAT 5025
MT= 52 (n,n') Level
Legendre Coefficients
50-Sn-112
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.04
0.02
0.00
-0.02
-0.04
Legendre (CM)
50
100
150
200
Incident Energy (MeV)
24
50-Sn-112

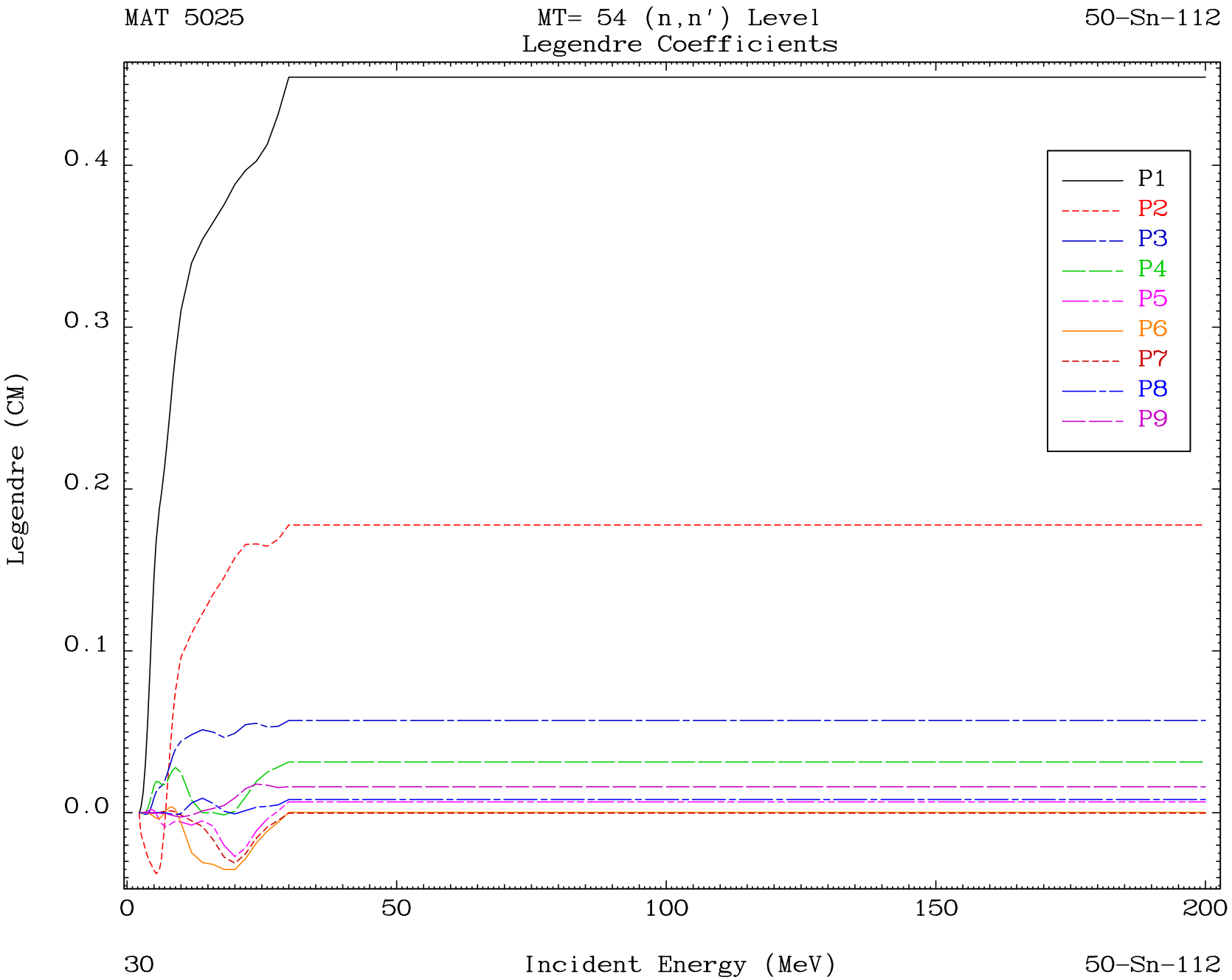

MAT 5025
MT= 52 (n,n') Level
Legendre Coefficients
50-Sn-112
0.005
0.004
0.003
0.002
0.001
0.000
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
25
Incident Energy (MeV)
50-Sn-112

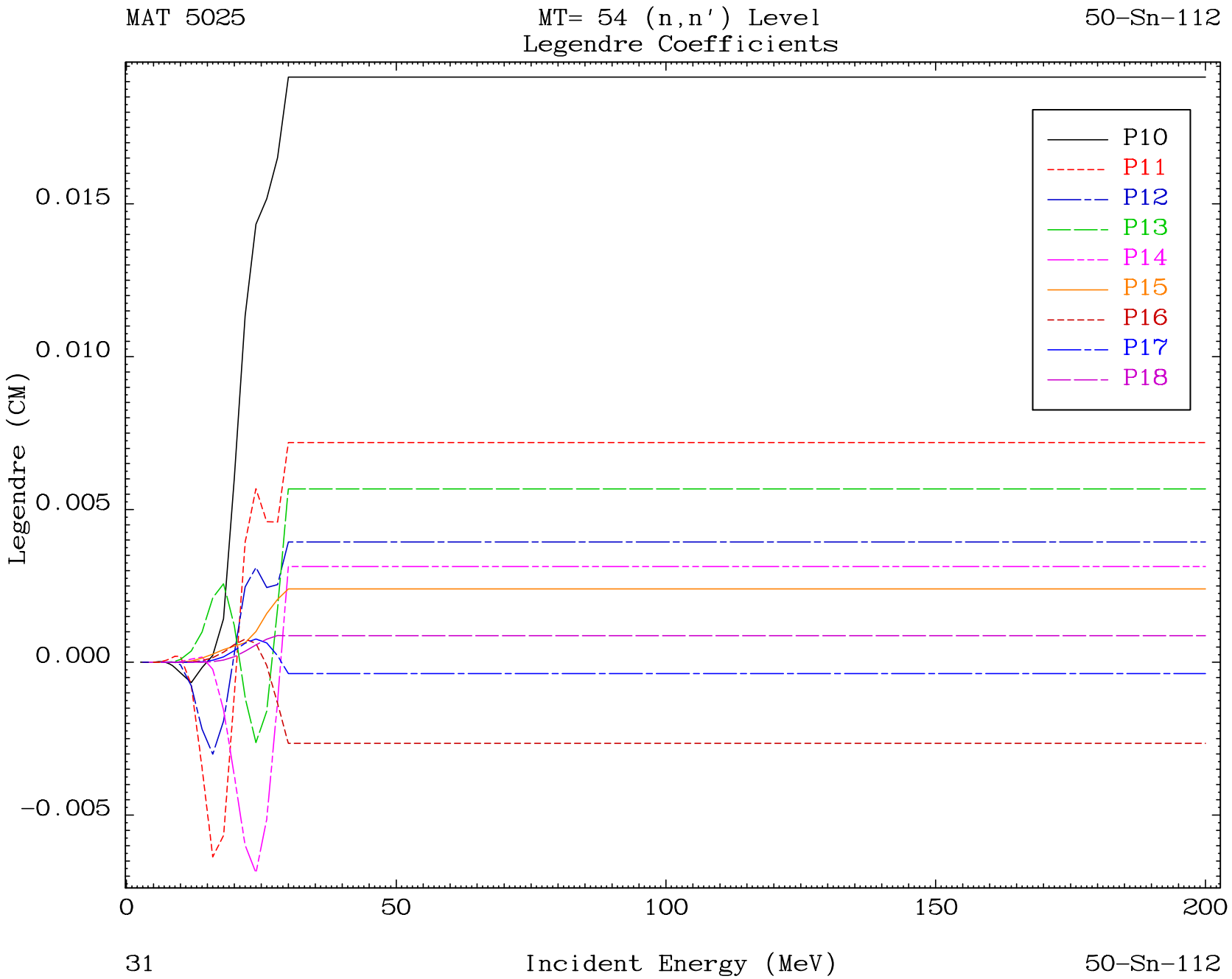

MAT 5025
MT= 52 (n,n') Level
Legendre Coefficients
50-Sn-112
X10-6
1.5
1.0
0.5
0.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
26
Incident Energy (MeV)
50-Sn-112

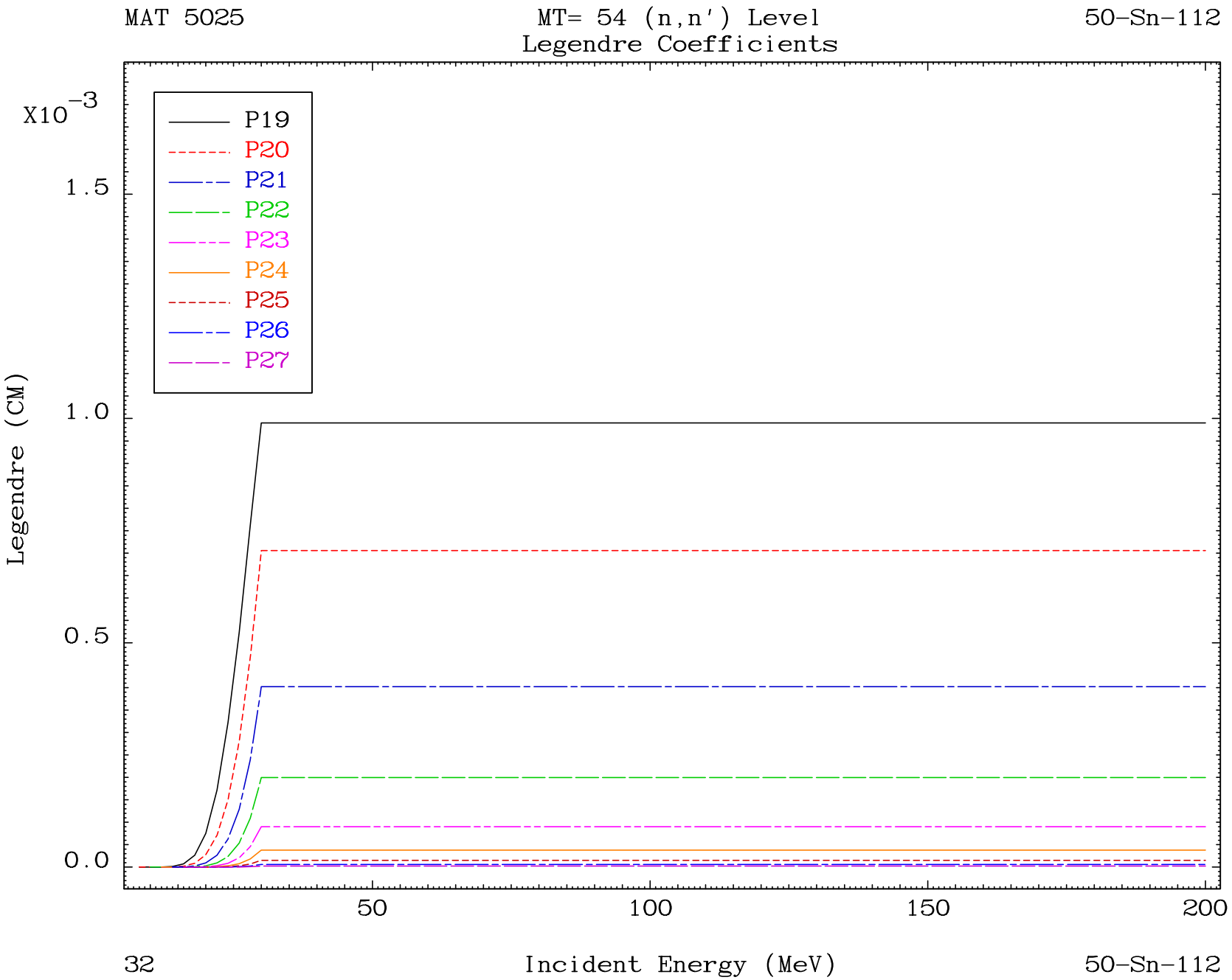

MAT 5025
MT= 53 (n,n') Level
Legendre Coefficients
50-Sn-112
Legendre (CM)
0.20
0.15
0.10
0.05
0.00
0
50
100
150
200
Incident Energy (MeV)
27
50-Sn-112
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10

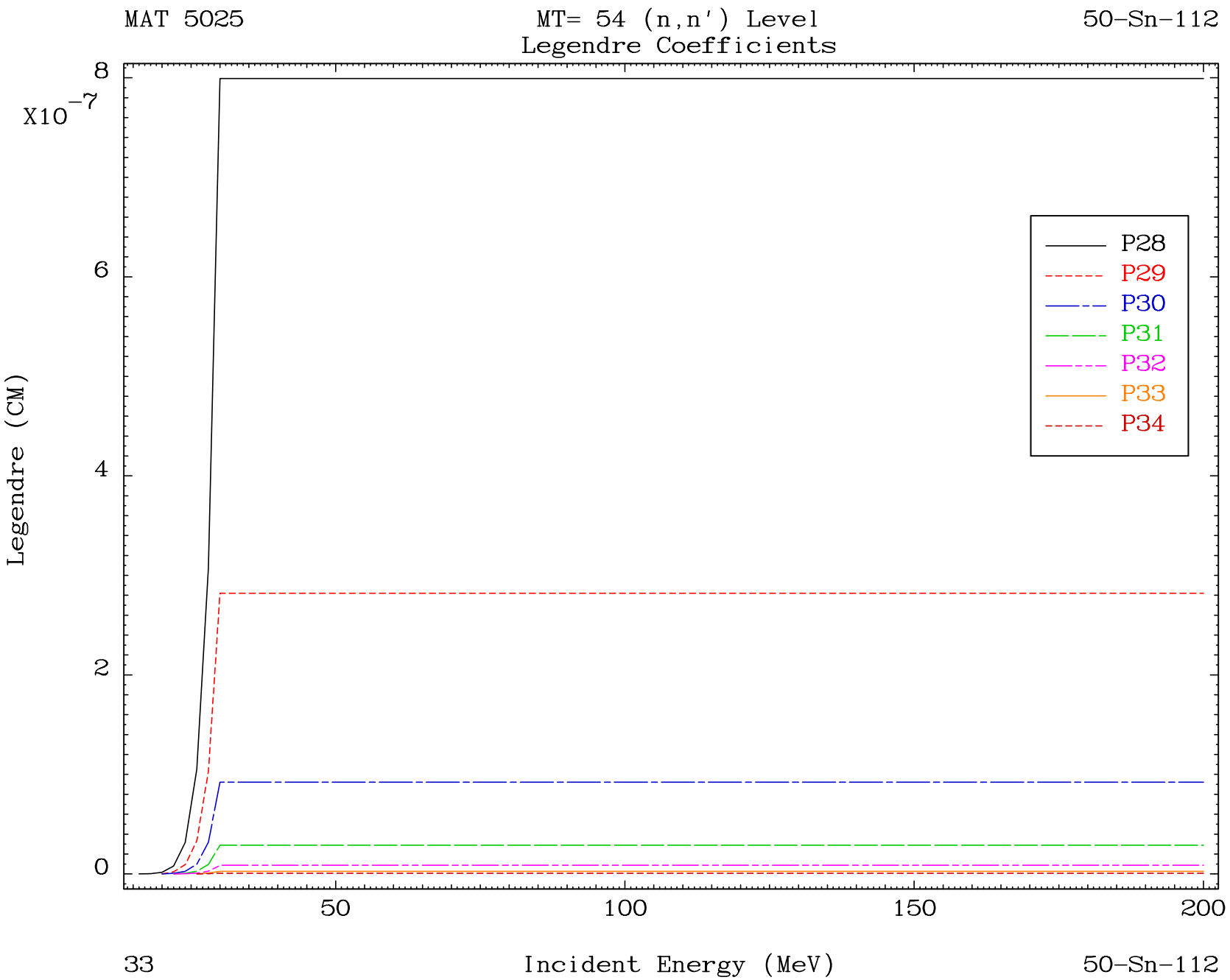

MAT 5025
MT= 53 (n,n') Level
Legendre Coefficients
50-Sn-112
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.012
0.008
0.004
0.000
Legendre (CM)
0
50
100
150
200
28
Incident Energy (MeV)
50-Sn-112

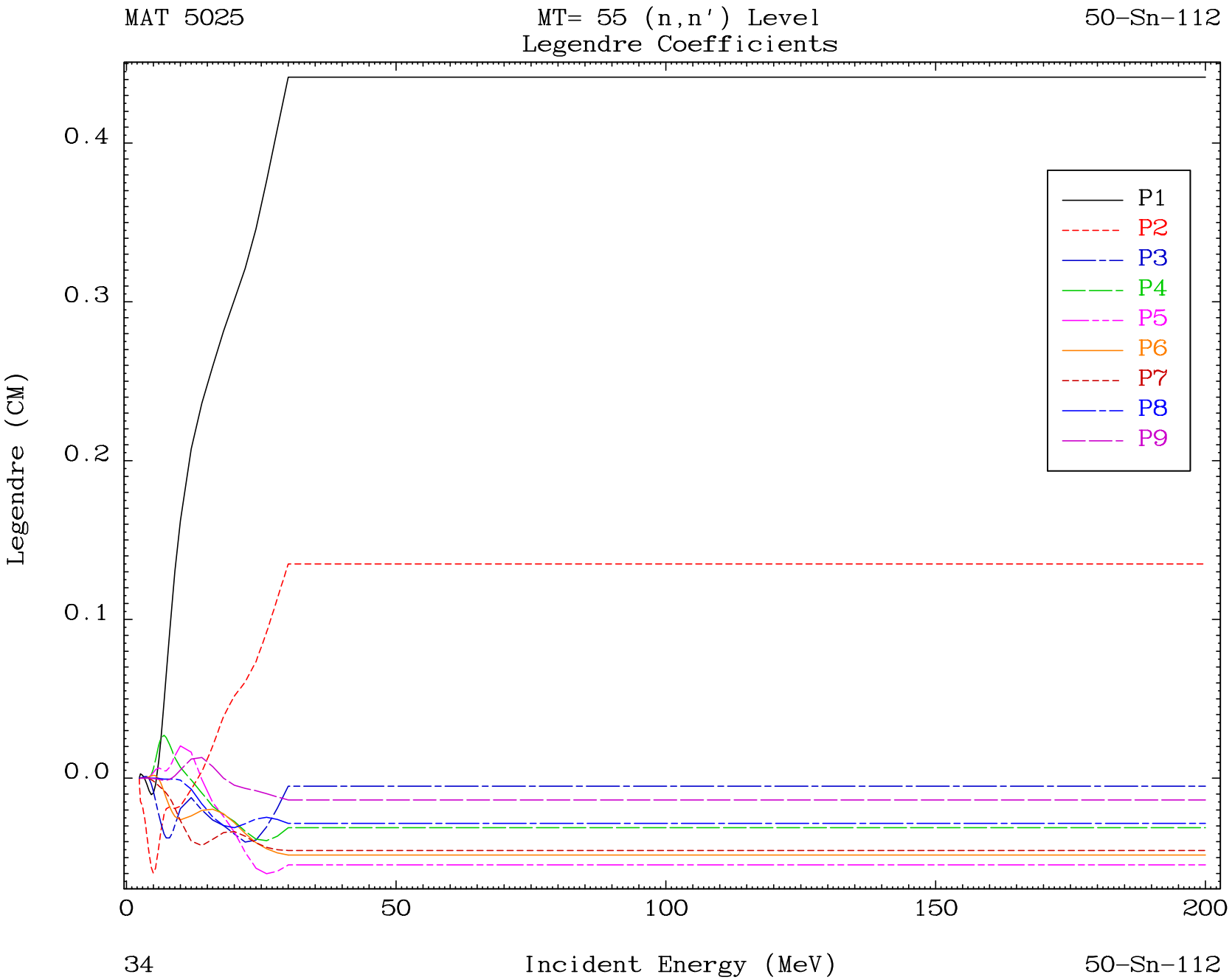

MAT 5025
MT= 53 (n,n') Level
Legendre Coefficients
50-Sn-112
1.5
X10 -6
1.0
0.5
0.0
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
50
100
150
200
29
Incident Energy (MeV)
50-Sn-112

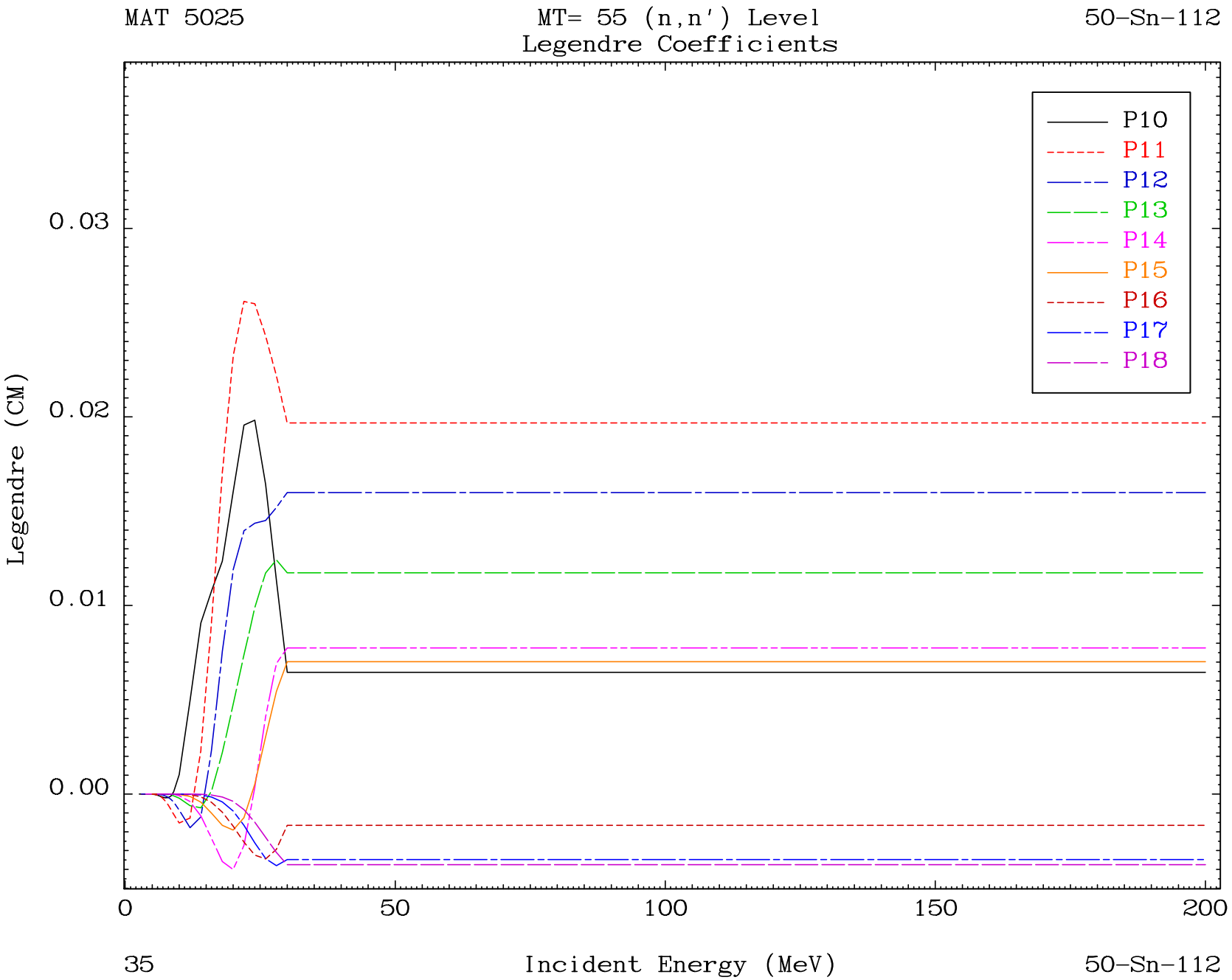

MAT 5025
MT= 54 (n,n') Level
Legendre Coefficients
50-Sn-112
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
30
Incident Energy (MeV)
50-Sn-112
P1
P2
P3
P4
P5
P6
P7
P8
P9

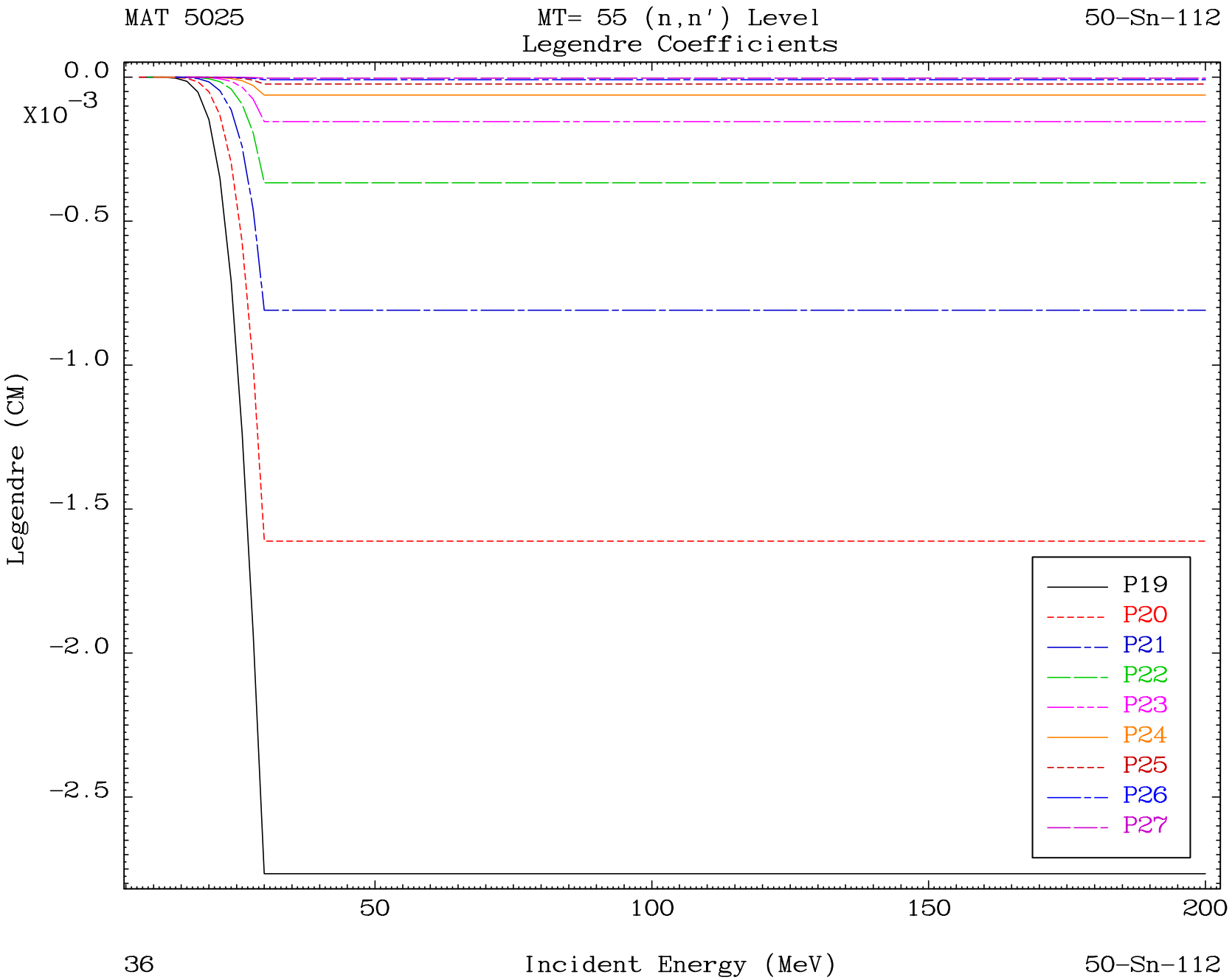

MAT 5025
MT= 54 (n,n') Level
Legendre Coefficients
50-Sn-112
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.015
0.010
0.005
0.000
-0.005
Legendre (CM)
0
50
100
150
200
31
Incident Energy (MeV)
50-Sn-112

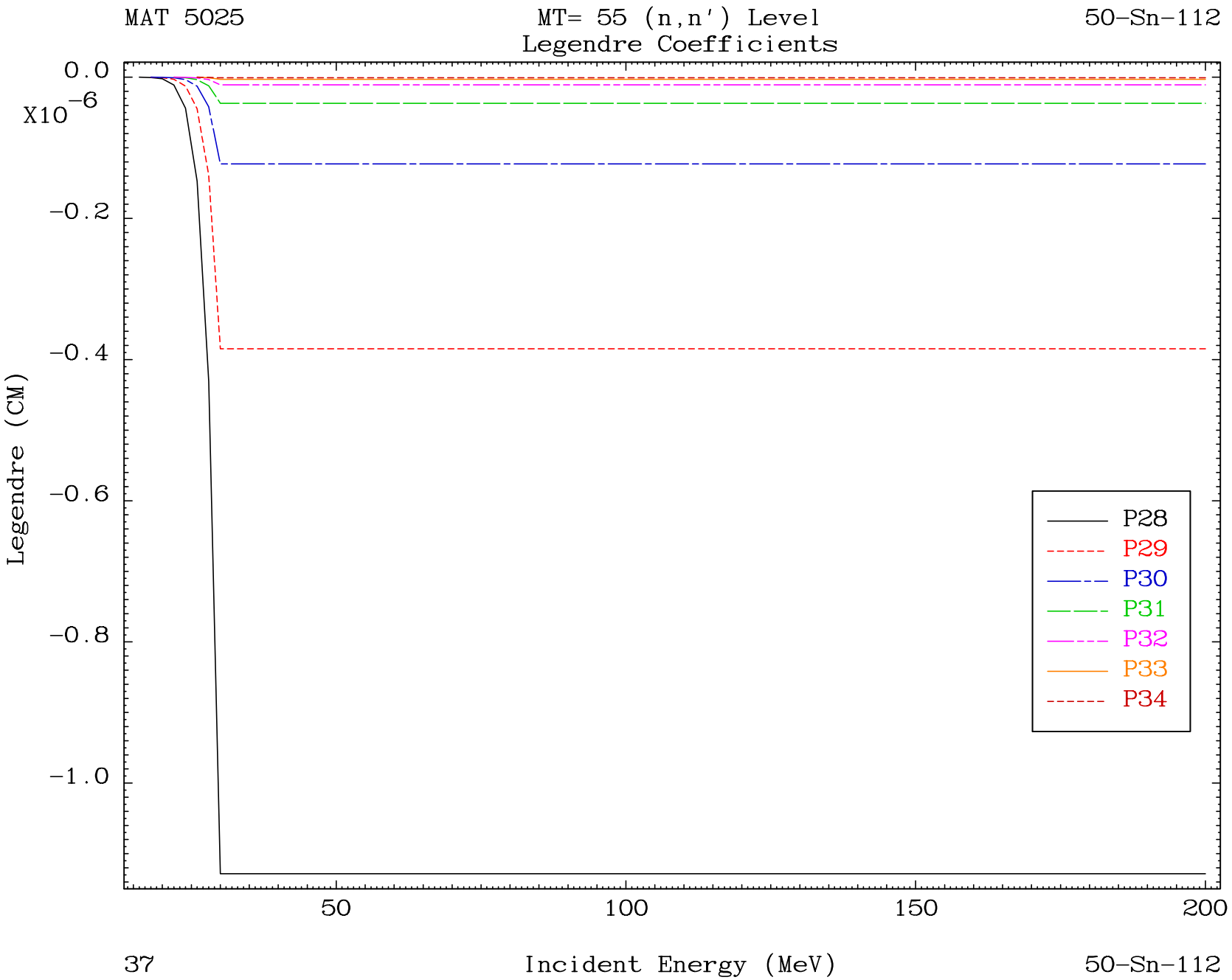

MAT 5025
MT= 54 (n,n') Level
Legendre Coefficients
50-Sn-112
X10-3
1.5
1.0
0.5
0.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
32
Incident Energy (MeV)
50-Sn-112

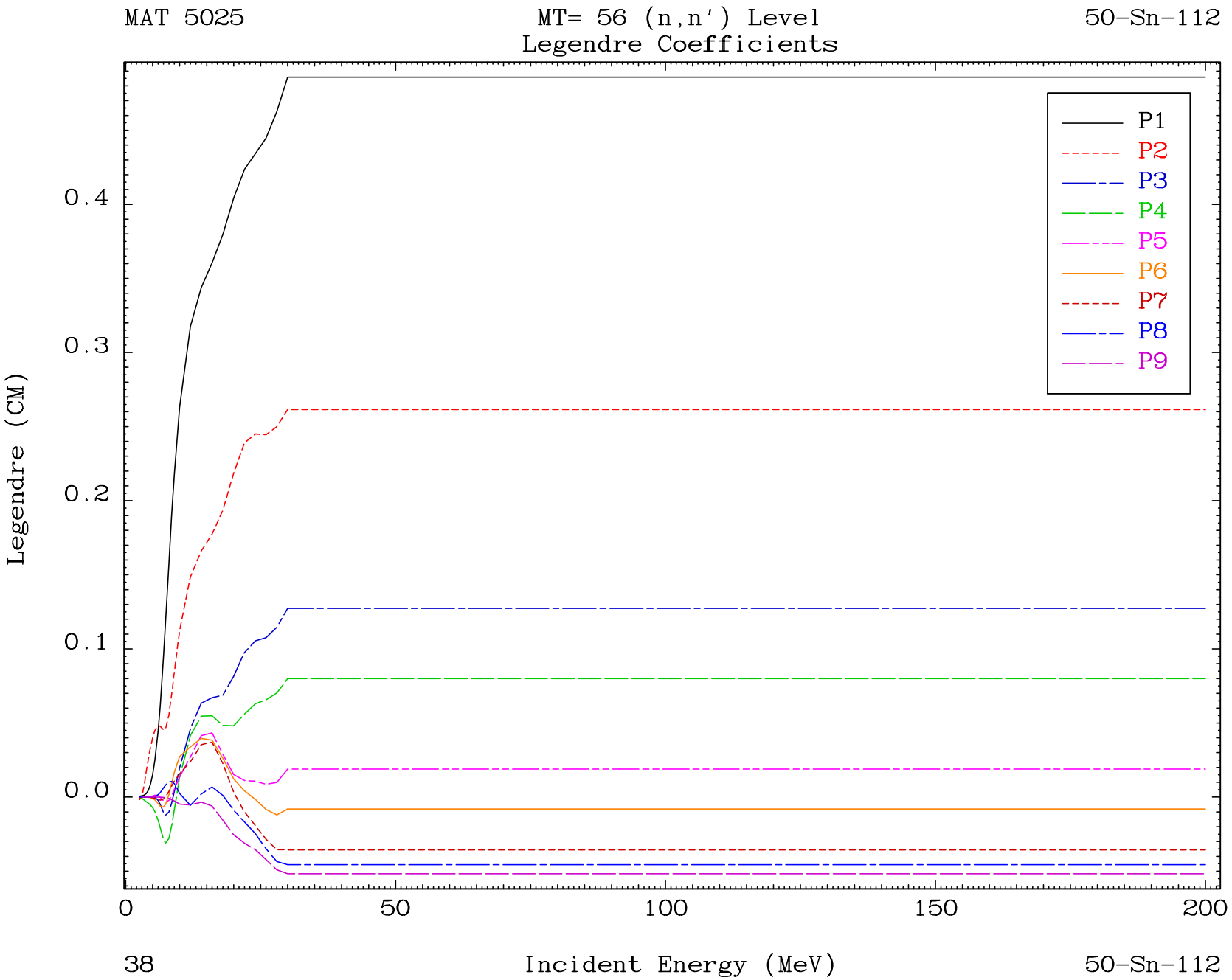

MAT 5025
MT= 54 (n,n') Level
Legendre Coefficients
50-Sn-112
X10-7
8
6
4
2
0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
33
Incident Energy (MeV)
50-Sn-112

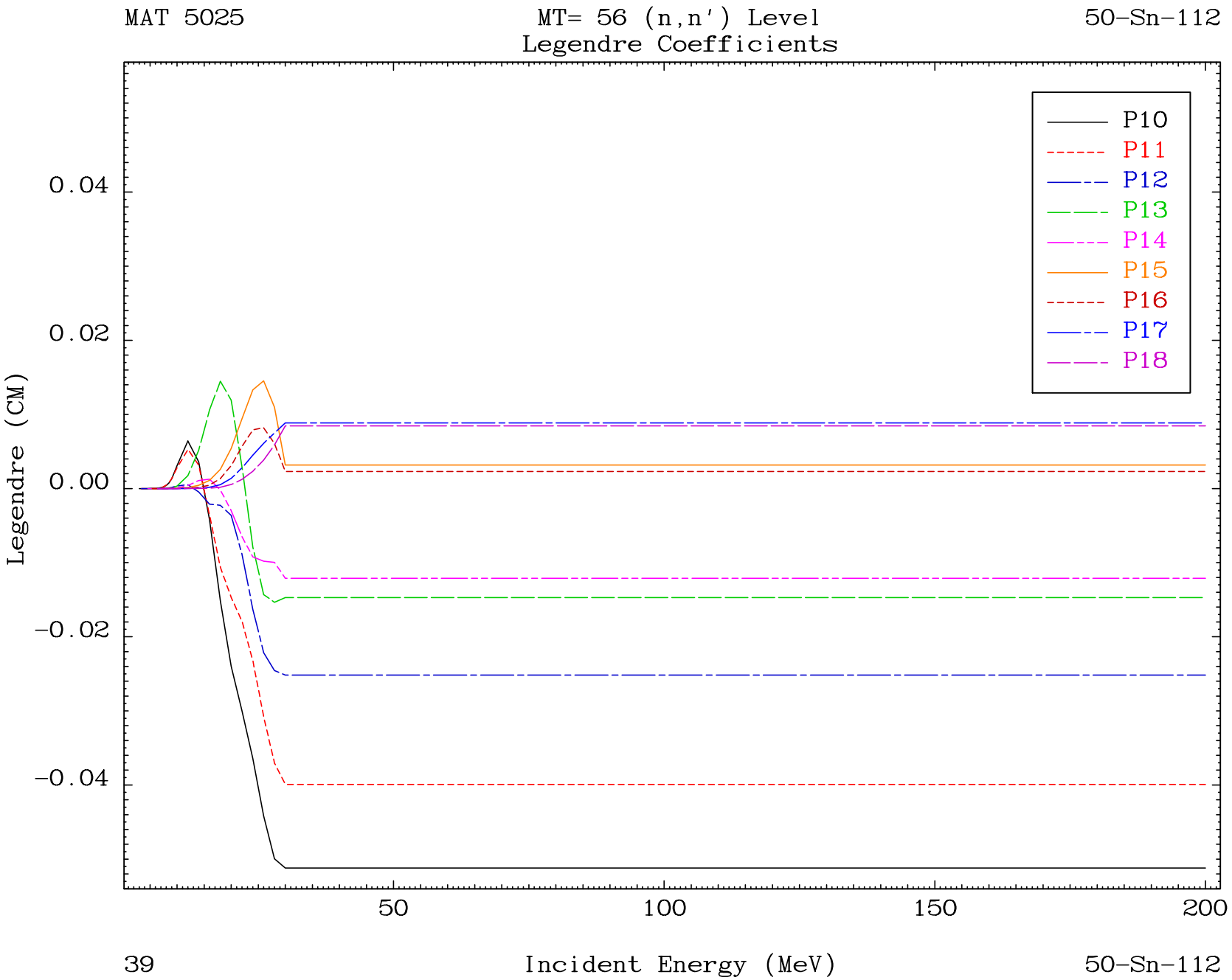

MAT 5025
MT= 55 (n,n') Level
Legendre Coefficients
50-Sn-112
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
34
Incident Energy (MeV)
50-Sn-112

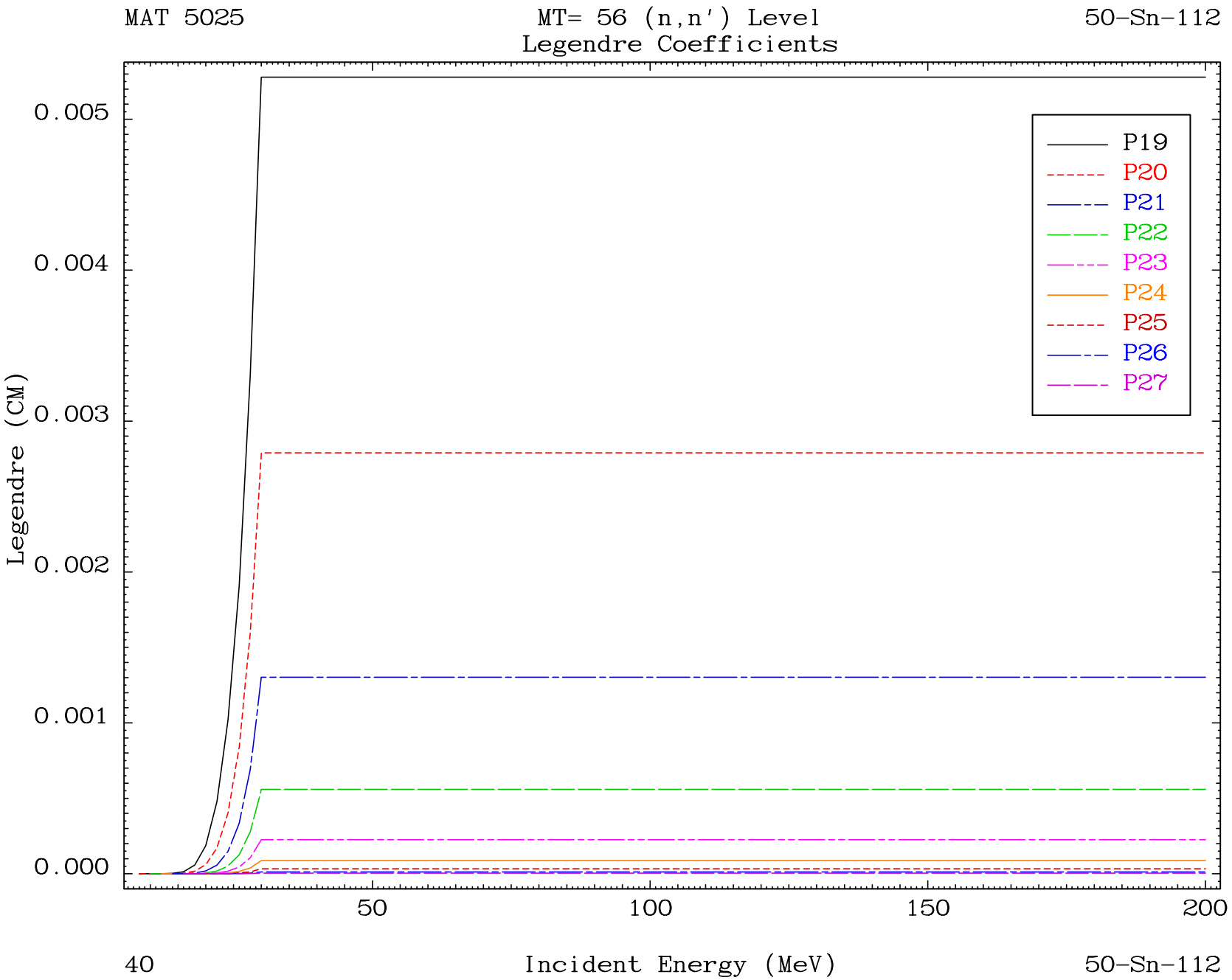

MAT 5025
MT= 55 (n,n') Level
Legendre Coefficients
50-Sn-112
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.03
0.02
0.01
0.00
Legendre (CM)
0
50
100
150
200
35
Incident Energy (MeV)
50-Sn-112

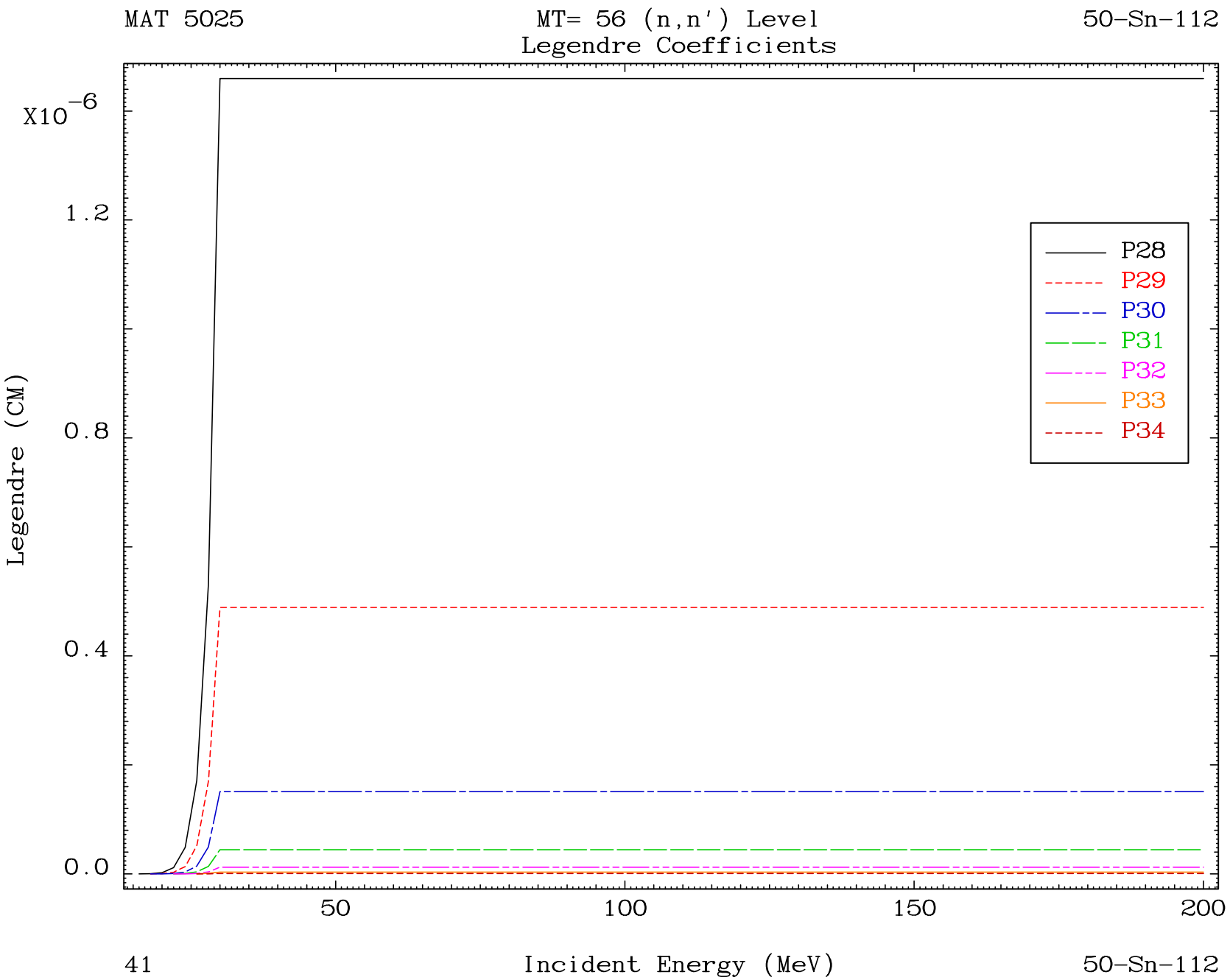

MAT 5025
MT= 55 (n,n') Level
Legendre Coefficients
50-Sn-112
0.0
X10^-3
-0.5
-1.0
-1.5
-2.0
-2.5
Legendre (CM)
50
100
150
200
36
Incident Energy (MeV)
50-Sn-112
P19
P20
P21
P22
P23
P24
P25
P26
P27

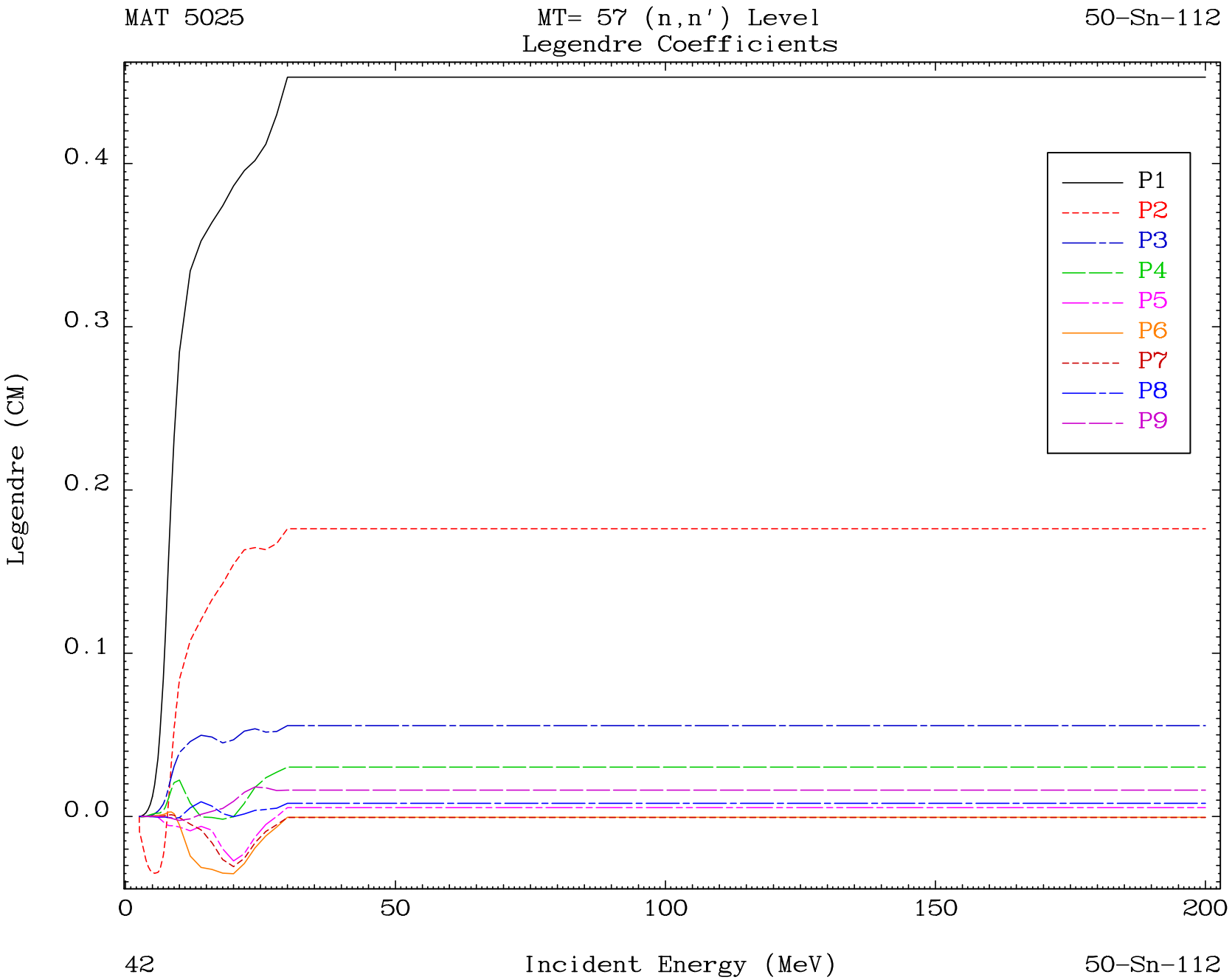

MAT 5025
MT= 55 (n,n') Level
Legendre Coefficients
50-Sn-112
0.0
X10^-6
-0.2
-0.4
-0.6
-0.8
-1.0
Legendre (CM)
50
100
150
200
37
Incident Energy (MeV)
50-Sn-112
P28
P29
P30
P31
P32
P33
P34

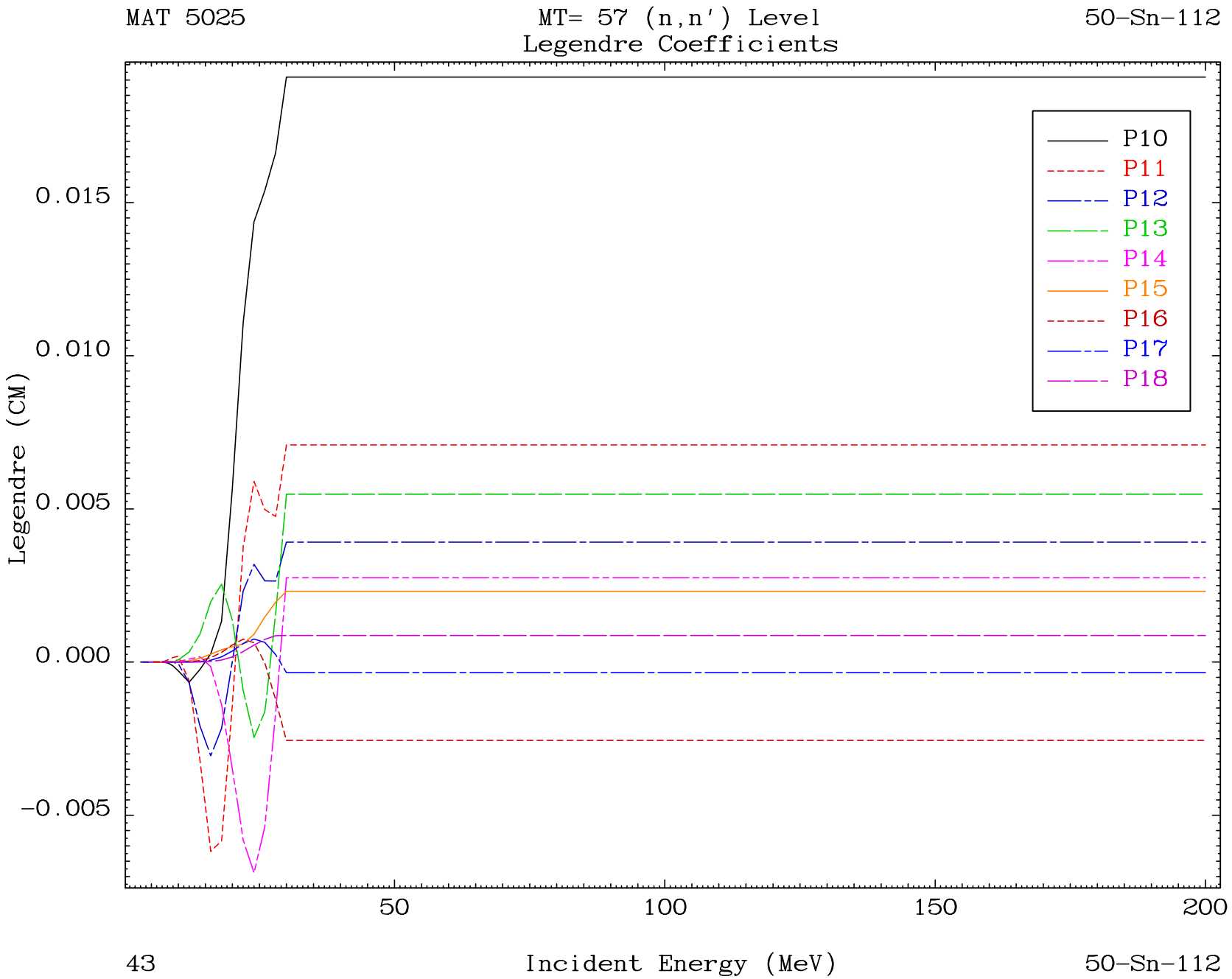

MAT 5025
MT= 56 (n,n') Level
Legendre Coefficients
50-Sn-112
P1
P2
P3
P4
P5
P6
P7
P8
P9
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
38
Incident Energy (MeV)
50-Sn-112

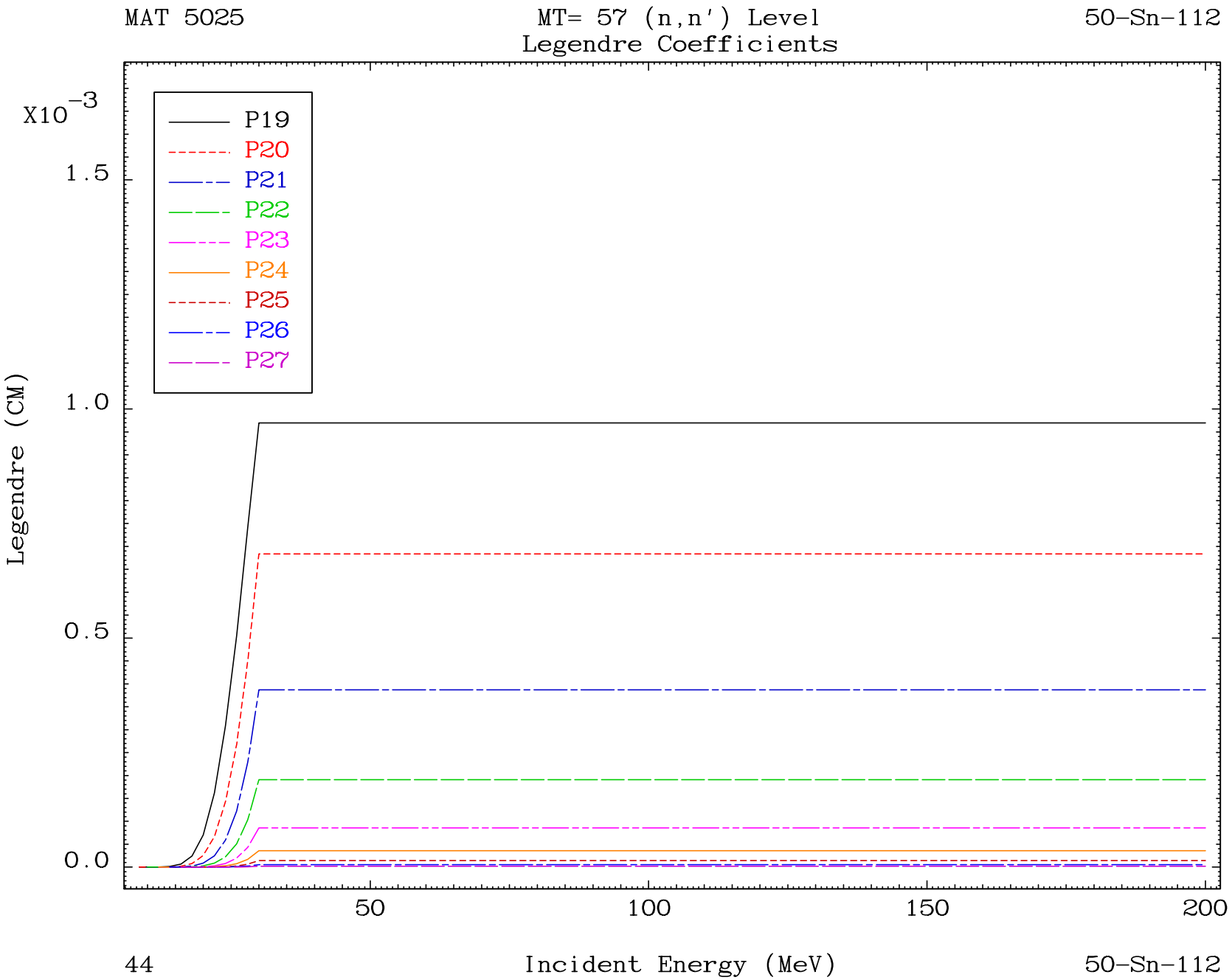

MAT 5025
MT= 56 (n,n') Level
Legendre Coefficients
50-Sn-112
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.04
0.02
0.00
-0.02
-0.04
Legendre (CM)
50
100
150
200
39
Incident Energy (MeV)
50-Sn-112

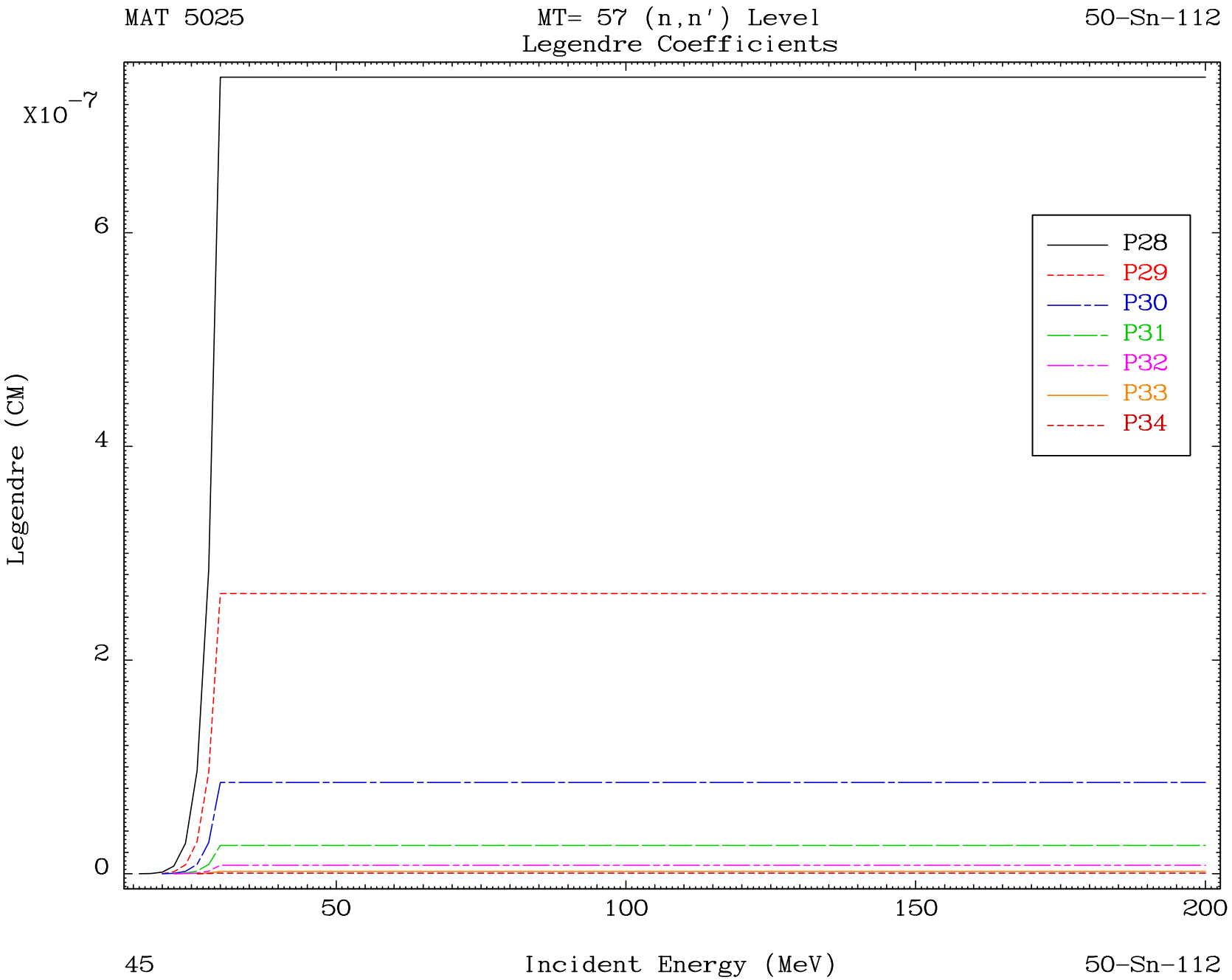

MAT 5025
MT= 56 (n,n') Level
Legendre Coefficients
50-Sn-112
0.005
0.004
0.003
0.002
0.001
0.000
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
40
50
100
150
200
Incident Energy (MeV)
50-Sn-112

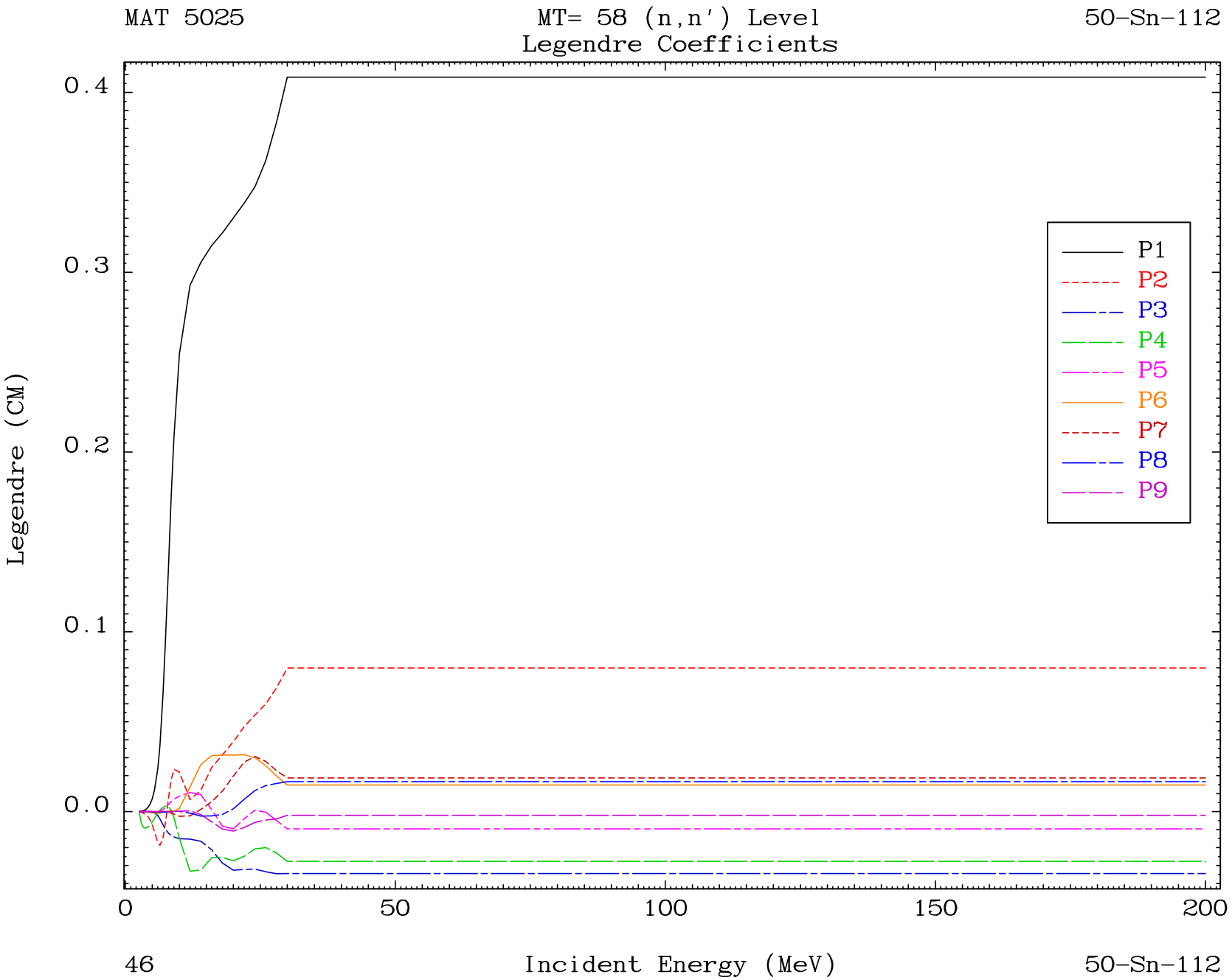

MAT 5025
MT= 56 (n,n') Level
Legendre Coefficients
50-Sn-112
X10-6
1.2
0.8
0.4
0.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
41
Incident Energy (MeV)
50-Sn-112

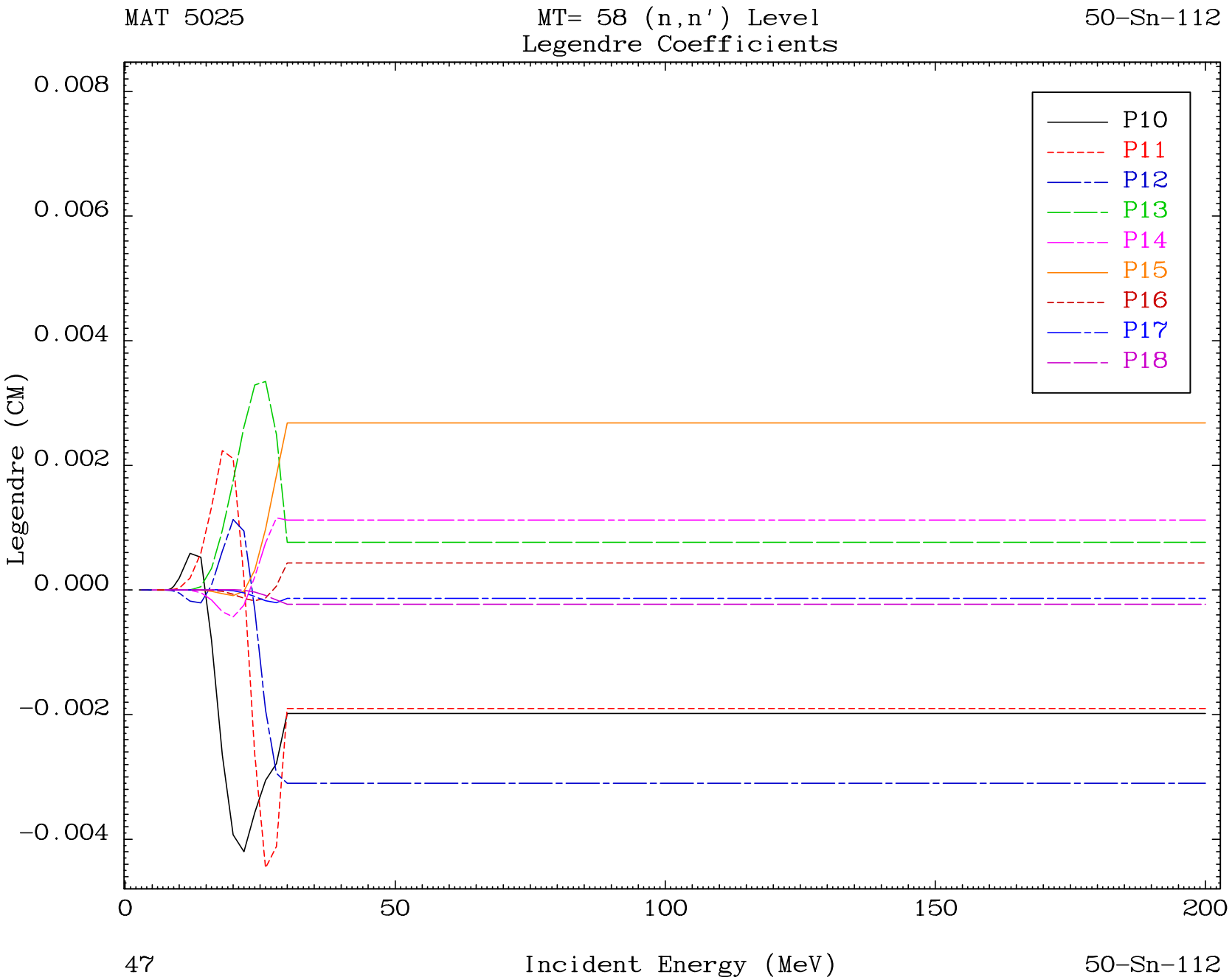

MAT 5025
MT= 57 (n,n') Level
Legendre Coefficients
50-Sn-112
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
42
Incident Energy (MeV)
50-Sn-112

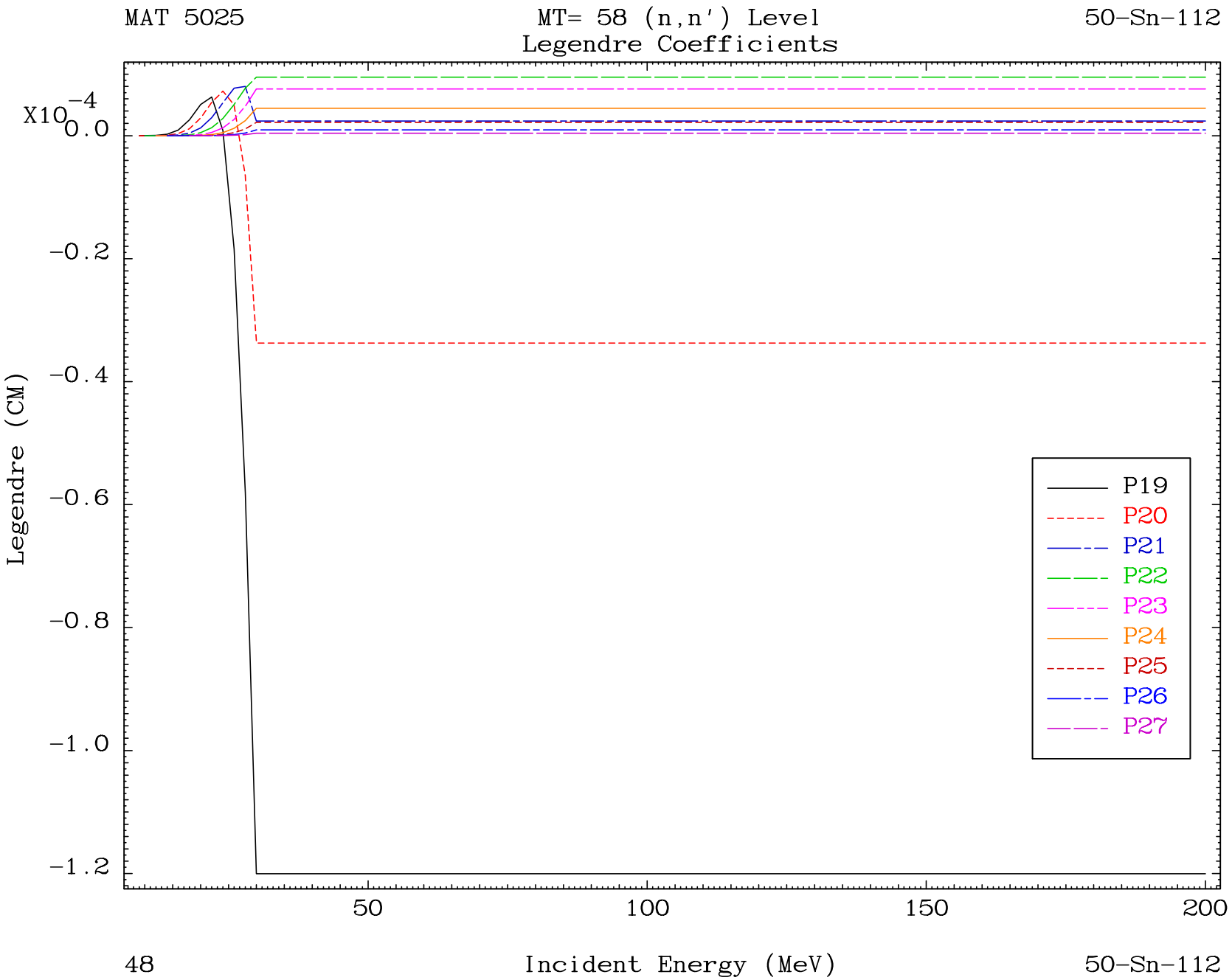

MAT 5025
MT= 57 (n,n') Level
Legendre Coefficients
50-Sn-112
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.015
0.010
0.005
0.000
-0.005
Legendre (CM)
50
100
150
200
43
Incident Energy (MeV)
50-Sn-112

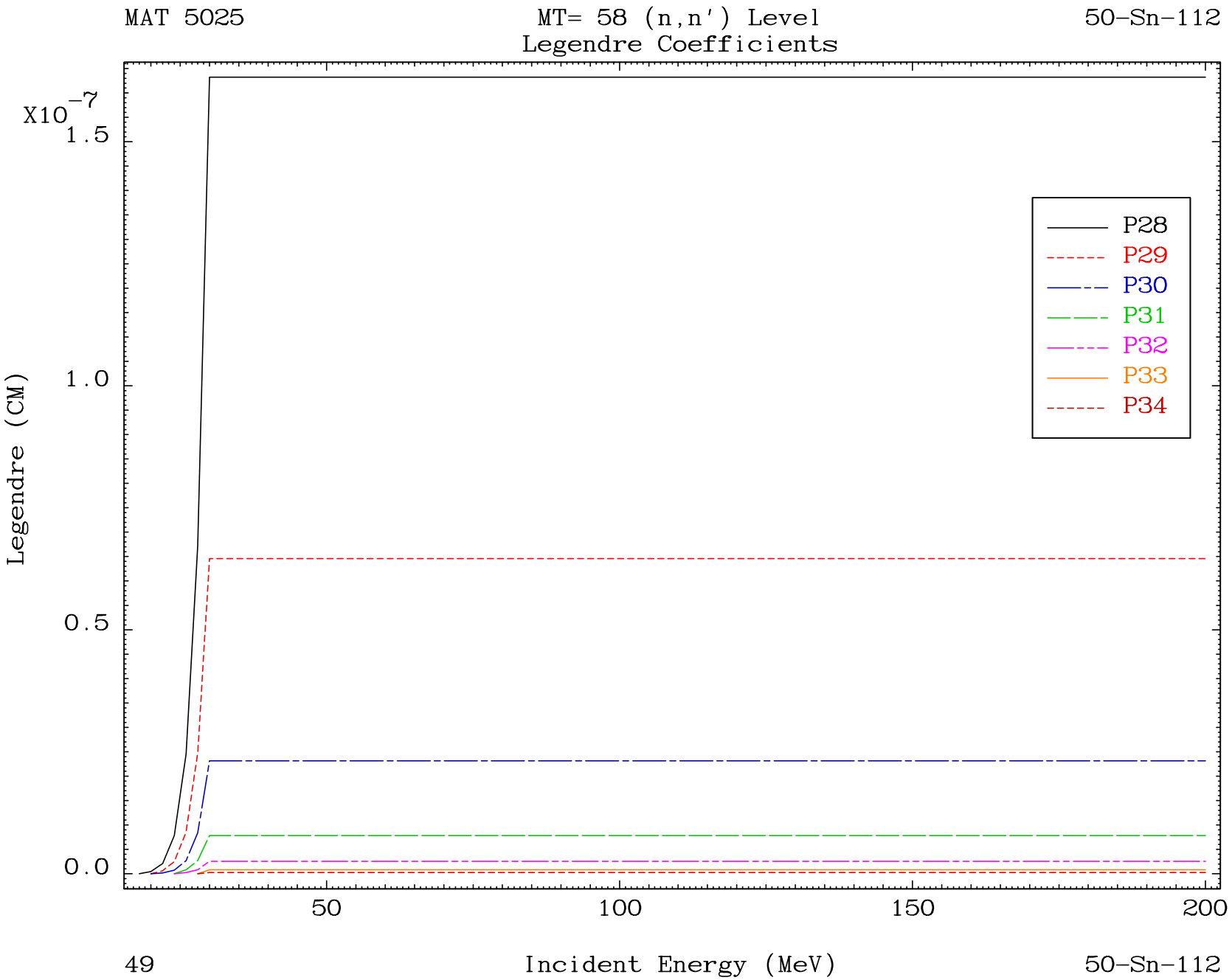

MAT 5025
MT= 57 (n,n') Level
Legendre Coefficients
50-Sn-112
X10-3
1.5
1.0
0.5
0.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
44
Incident Energy (MeV)
50-Sn-112

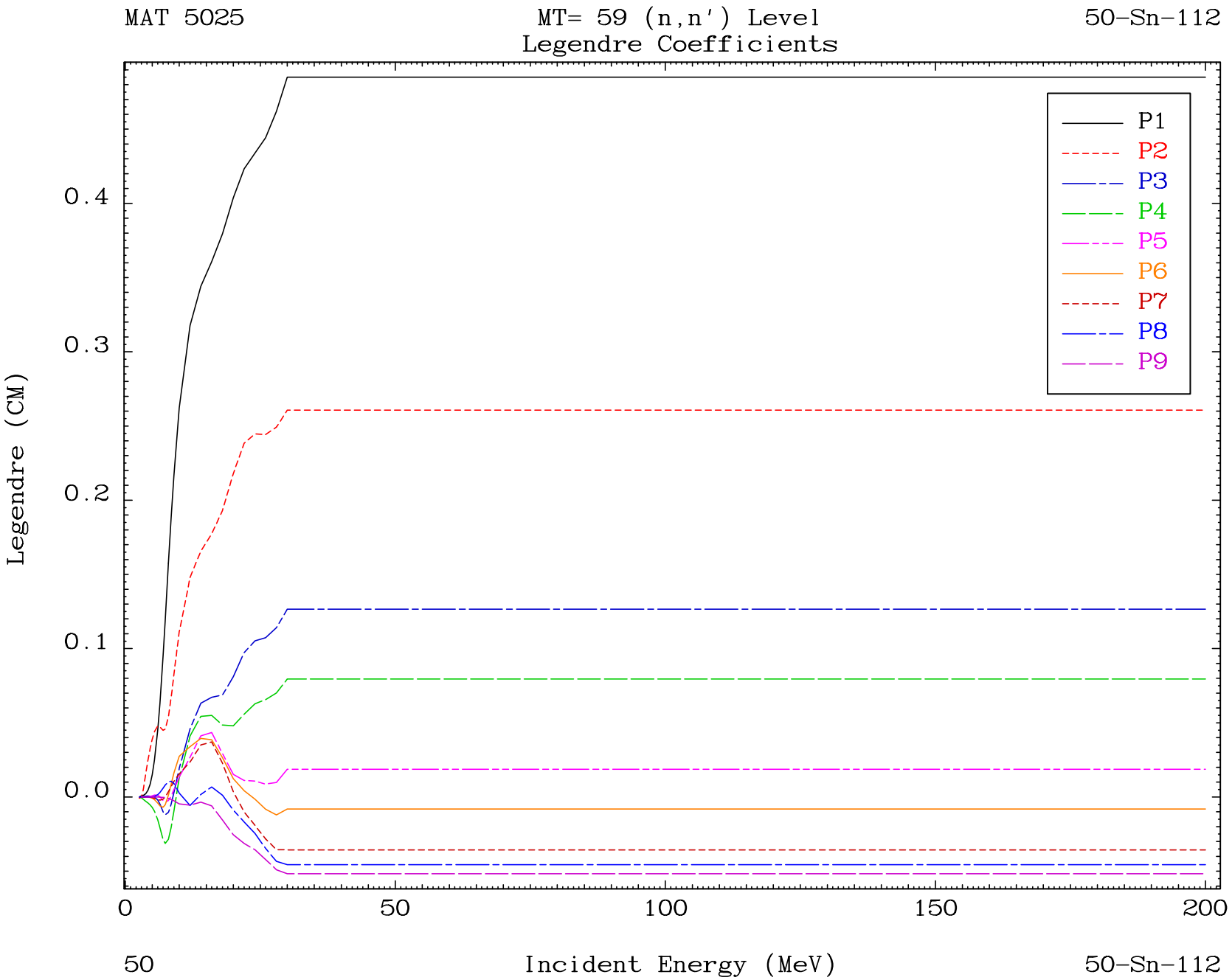

MAT 5025
MT= 57 (n,n') Level
Legendre Coefficients
50-Sn-112
X10^-7
6
4
2
0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
45
Incident Energy (MeV)
50-Sn-112

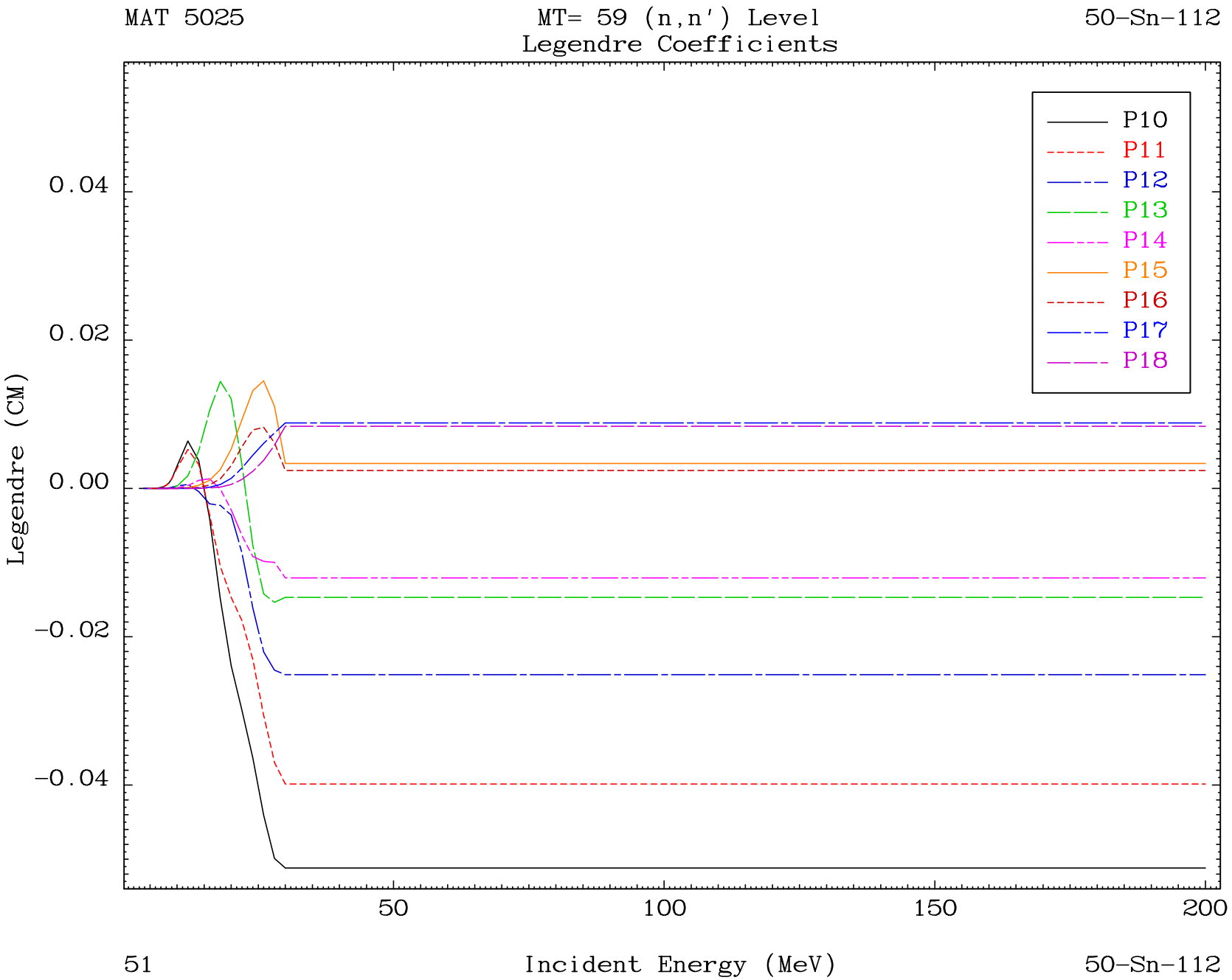

MAT 5025
MT= 58 (n,n') Level
Legendre Coefficients
50-Sn-112
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
46
Incident Energy (MeV)
50-Sn-112

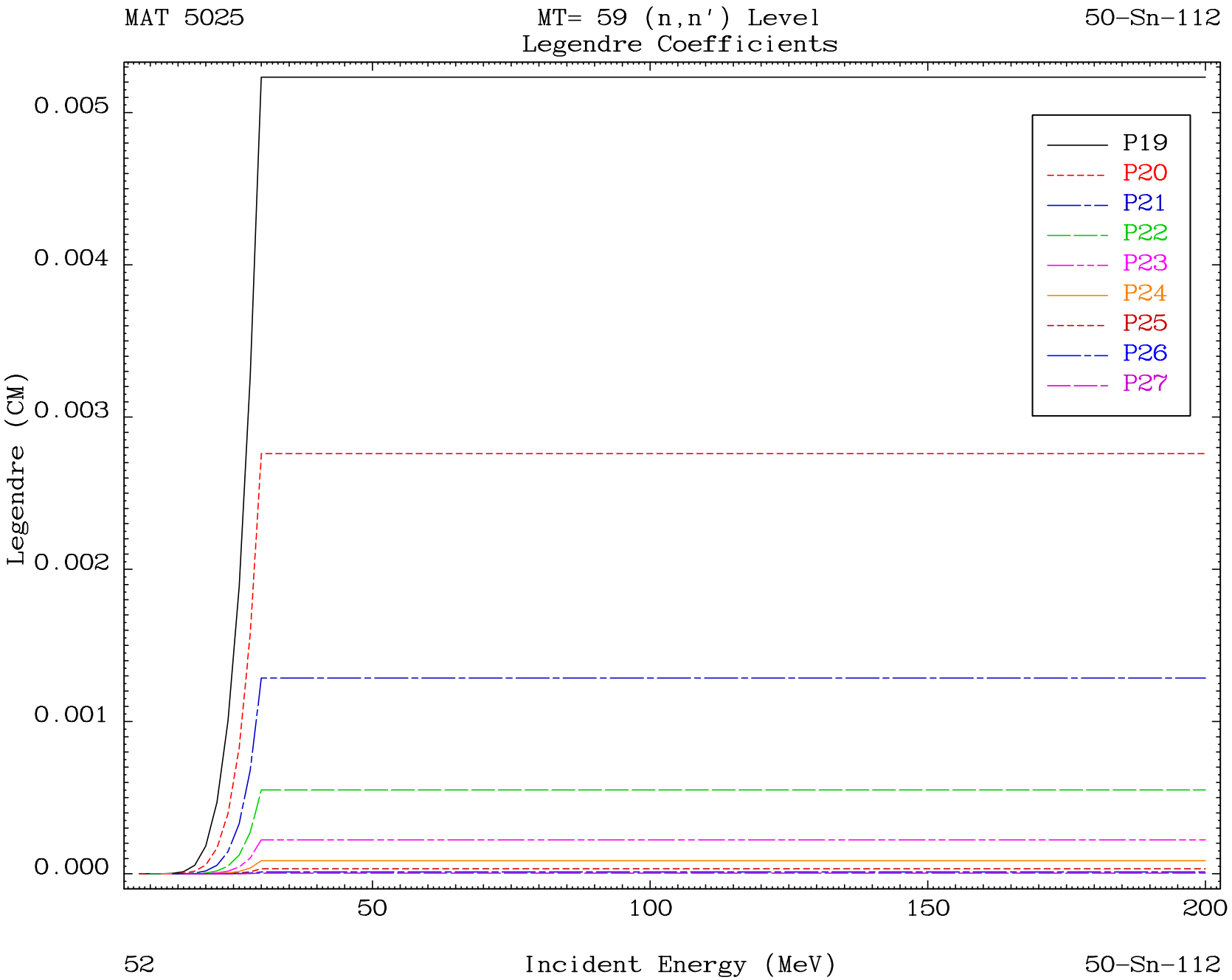

MAT 5025
MT= 58 (n,n') Level
Legendre Coefficients
50-Sn-112
0.008
0.006
0.004
0.002
0.000
-0.002
-0.004
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
47
Incident Energy (MeV)
50-Sn-112

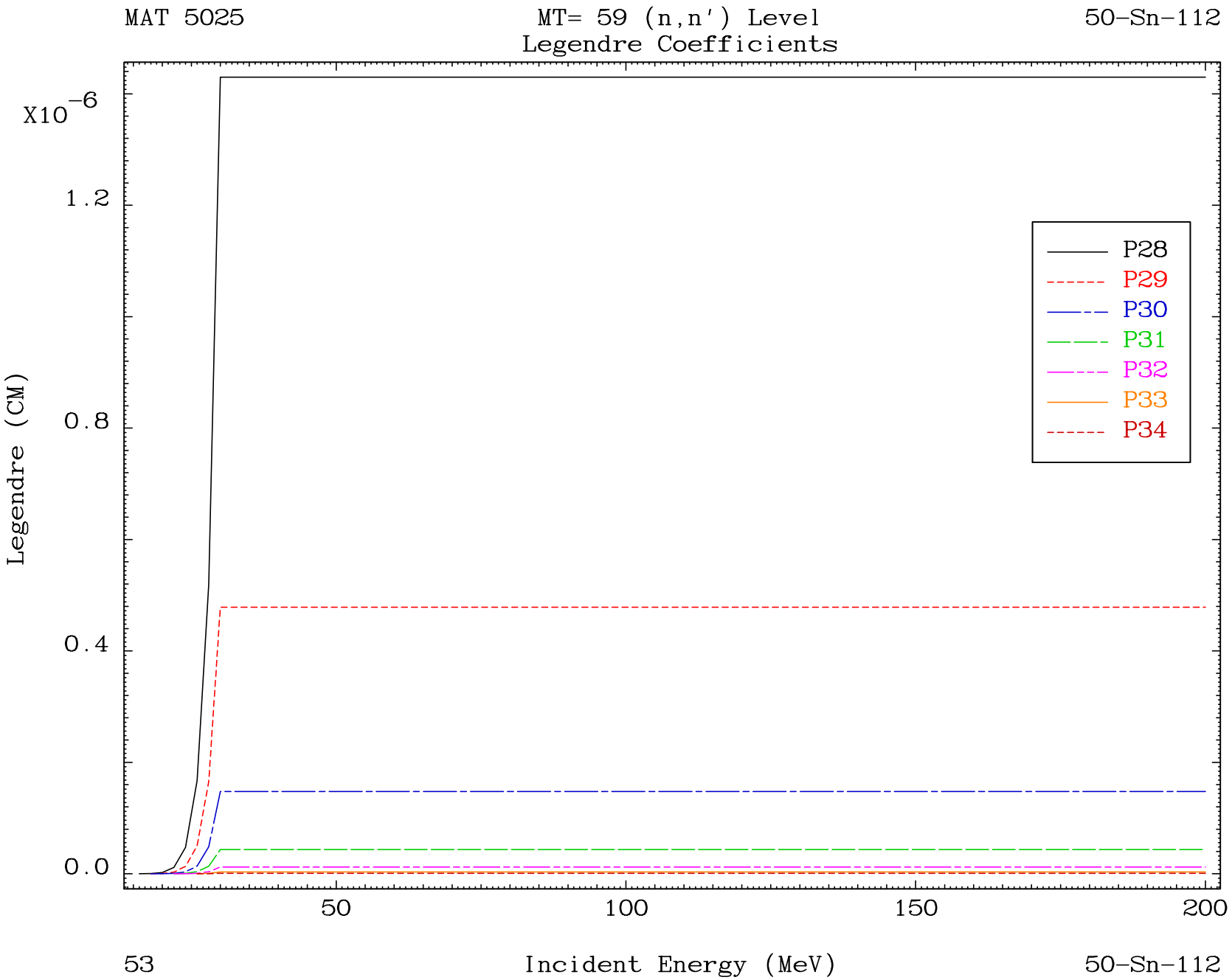

MAT 5025
MT= 58 (n,n') Level
Legendre Coefficients
50-Sn-112
X10^-4
0.0
-0.2
-0.4
-0.6
-0.8
-1.0
-1.2
Legendre (CM)
50
100
150
200
48
Incident Energy (MeV)
50-Sn-112
P19
P20
P21
P22
P23
P24
P25
P26
P27

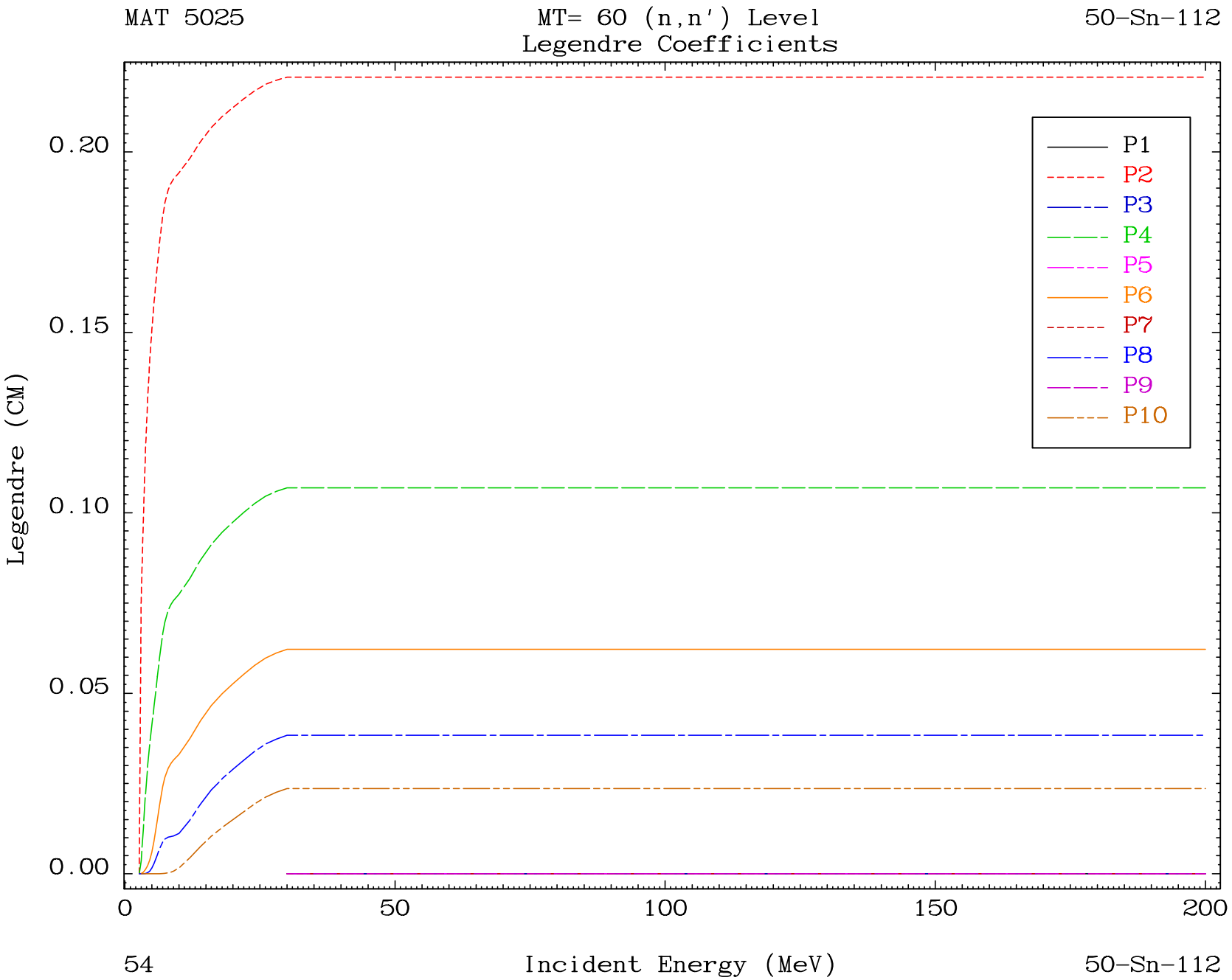

MAT 5025
MT= 58 (n,n') Level
Legendre Coefficients
50-Sn-112
X10-7
1.5
1.0
0.5
0.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
49
Incident Energy (MeV)
50-Sn-112

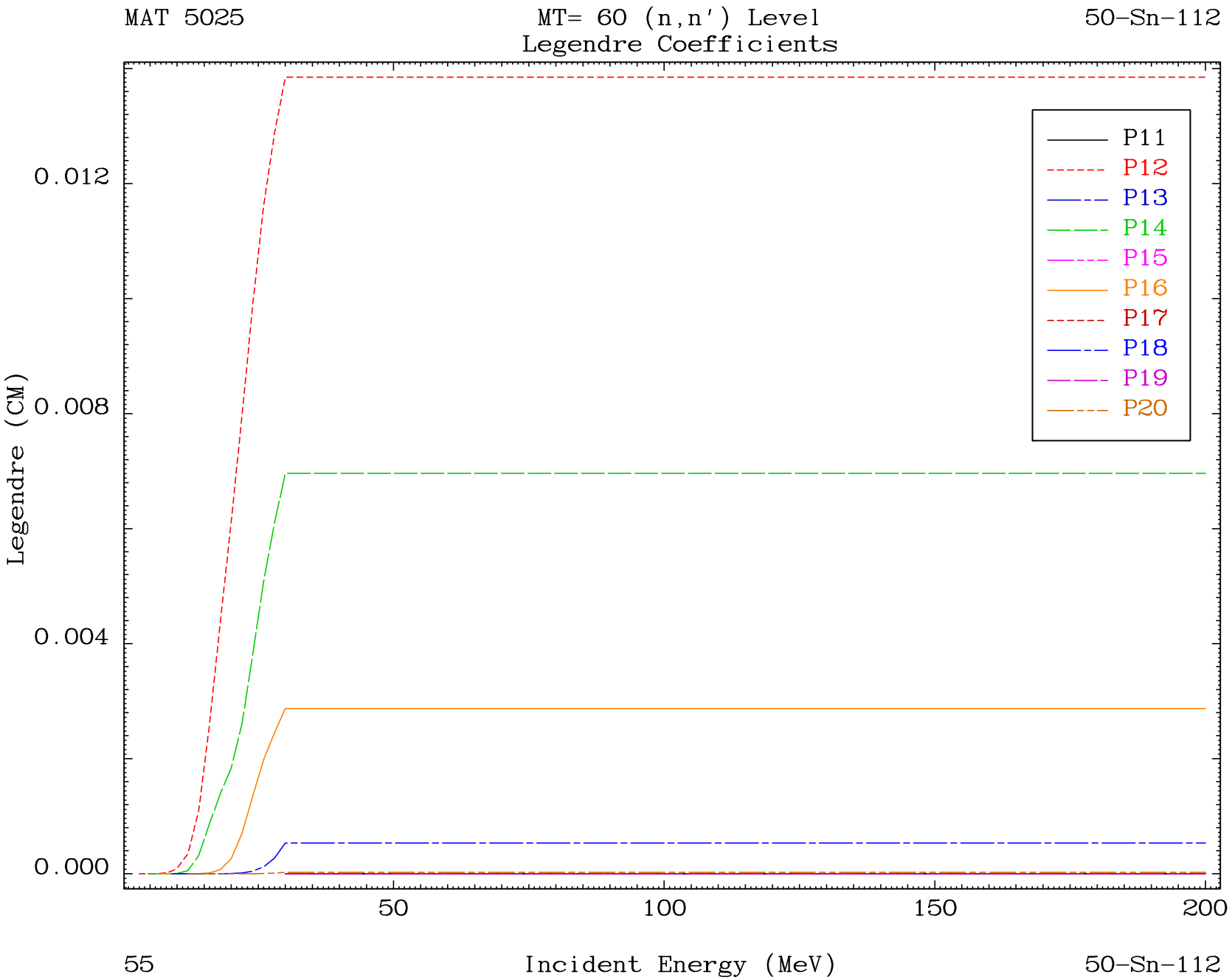

MAT 5025
MT= 59 (n,n') Level
Legendre Coefficients
50-Sn-112
P1
P2
P3
P4
P5
P6
P7
P8
P9
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
50
Incident Energy (MeV)
50-Sn-112

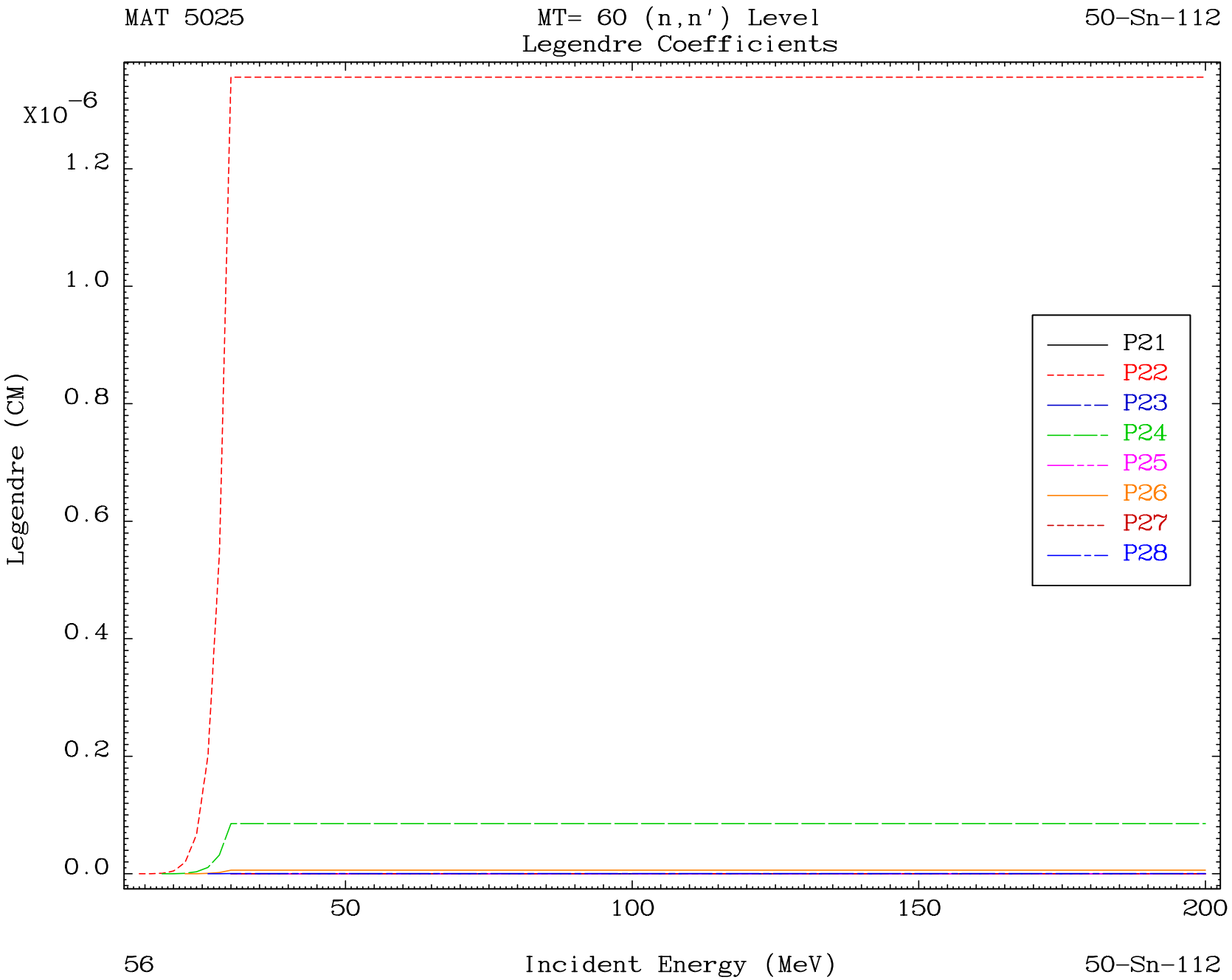

MAT 5025
MT= 59 (n,n') Level
Legendre Coefficients
50-Sn-112
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.04
0.02
0.00
-0.02
-0.04
Legendre (CM)
50
100
150
200
51
Incident Energy (MeV)
50-Sn-112

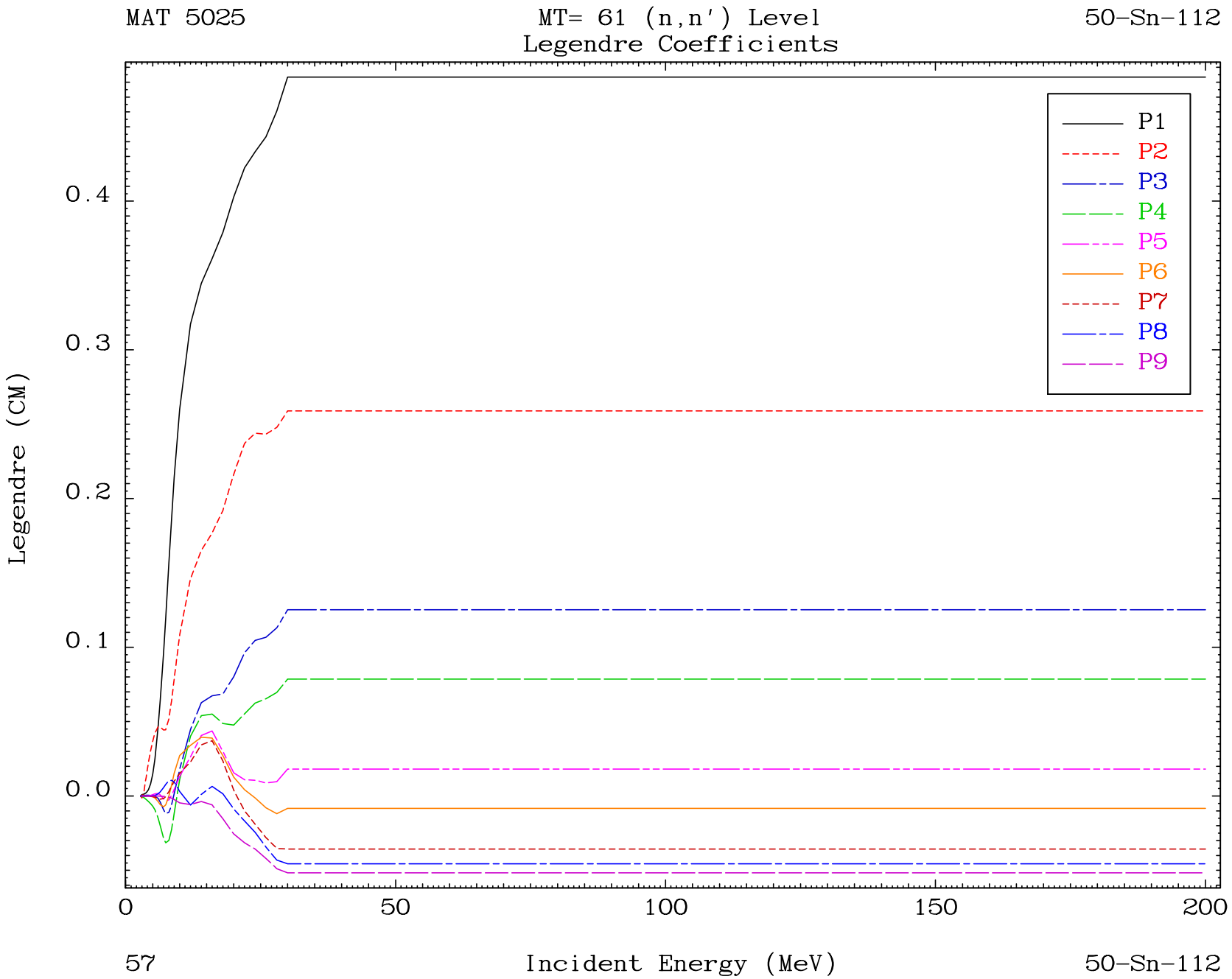

MAT 5025
MT= 59 (n,n') Level
Legendre Coefficients
50-Sn-112
0.005
0.004
0.003
0.002
0.001
0.000
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
52
Incident Energy (MeV)
50-Sn-112

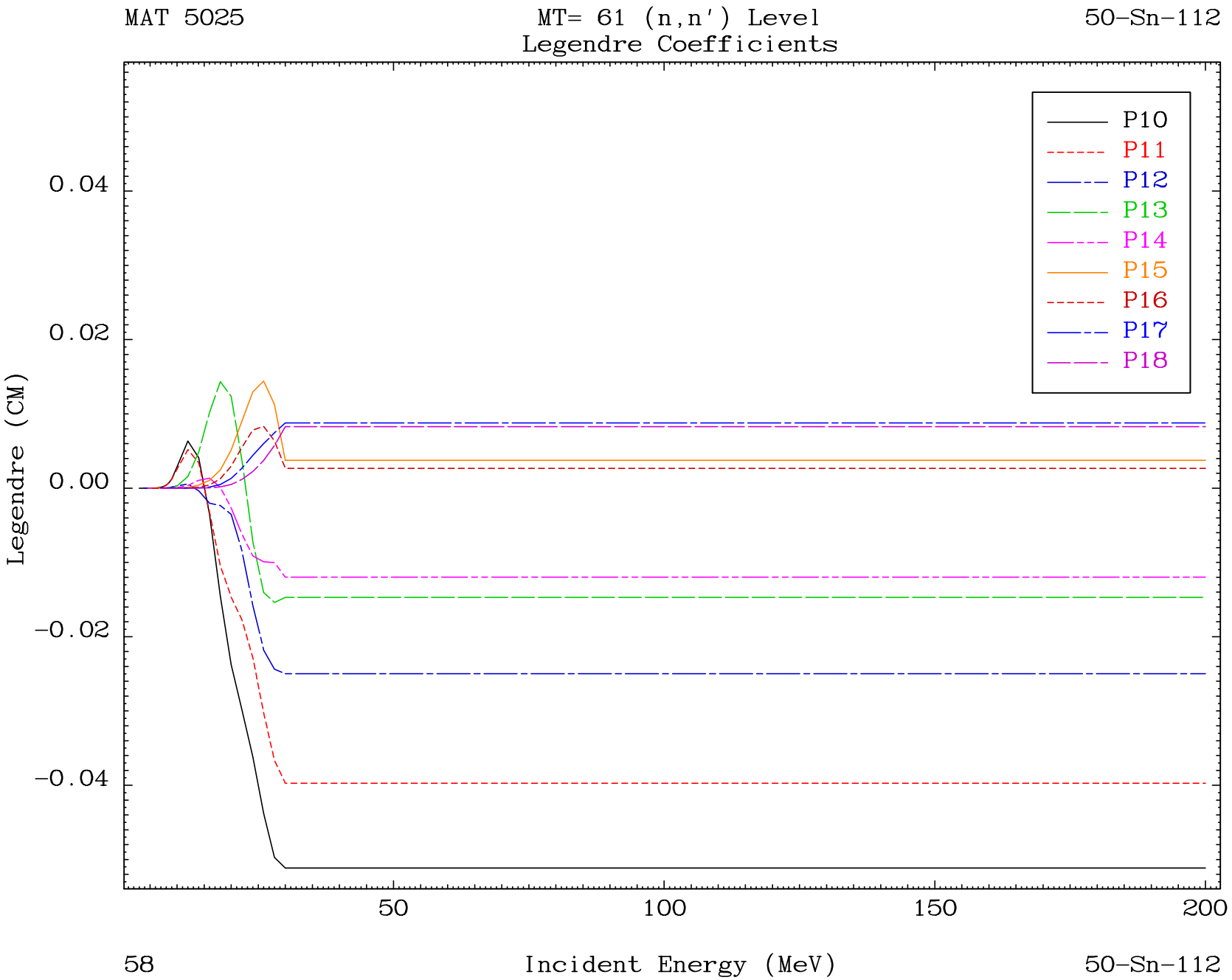

MAT 5025
MT= 59 (n,n') Level
Legendre Coefficients
50-Sn-112
X10^-6
1.2
0.8
0.4
0.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
53
Incident Energy (MeV)
50-Sn-112

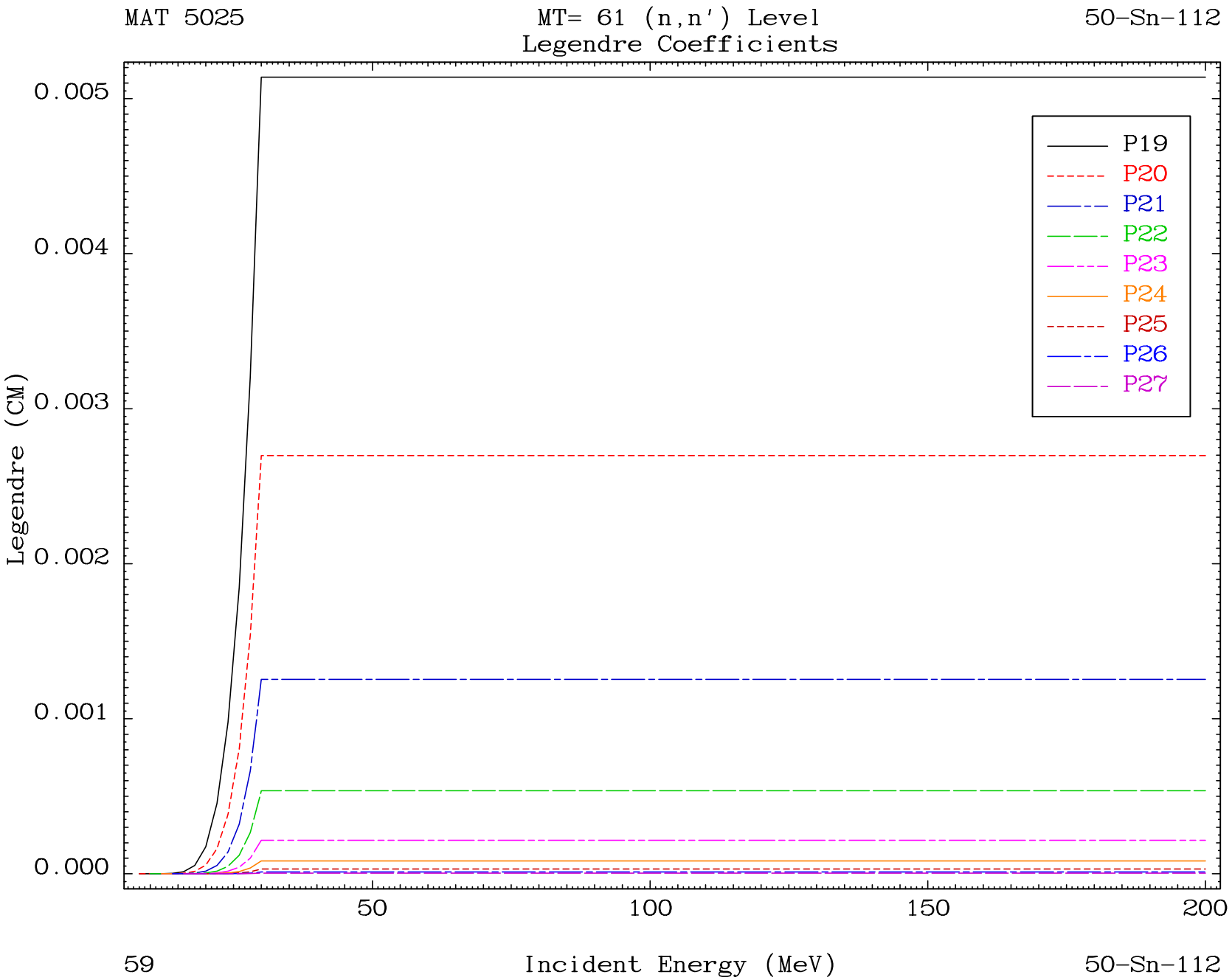

MAT 5025
MT= 60 (n,n') Level
Legendre Coefficients
50-Sn-112
Legendre (CM)
0.20
0.15
0.10
0.05
0.00
0
50
100
150
200
Incident Energy (MeV)
54
50-Sn-112
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10

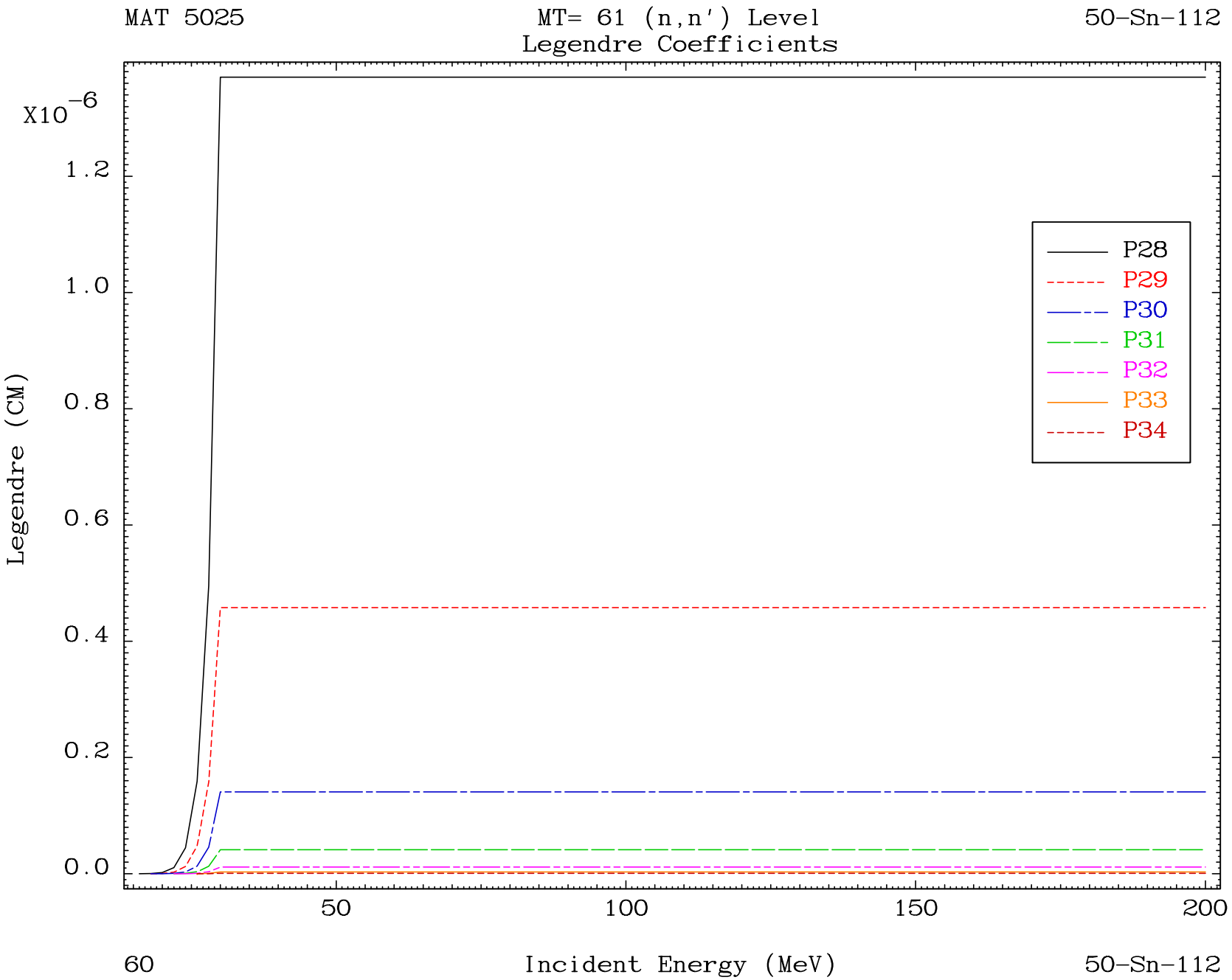

MAT 5025
MT= 60 (n,n') Level
Legendre Coefficients
50-Sn-112
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.012
0.008
0.004
0.000
Legendre (CM)
50
100
150
200
55
Incident Energy (MeV)
50-Sn-112

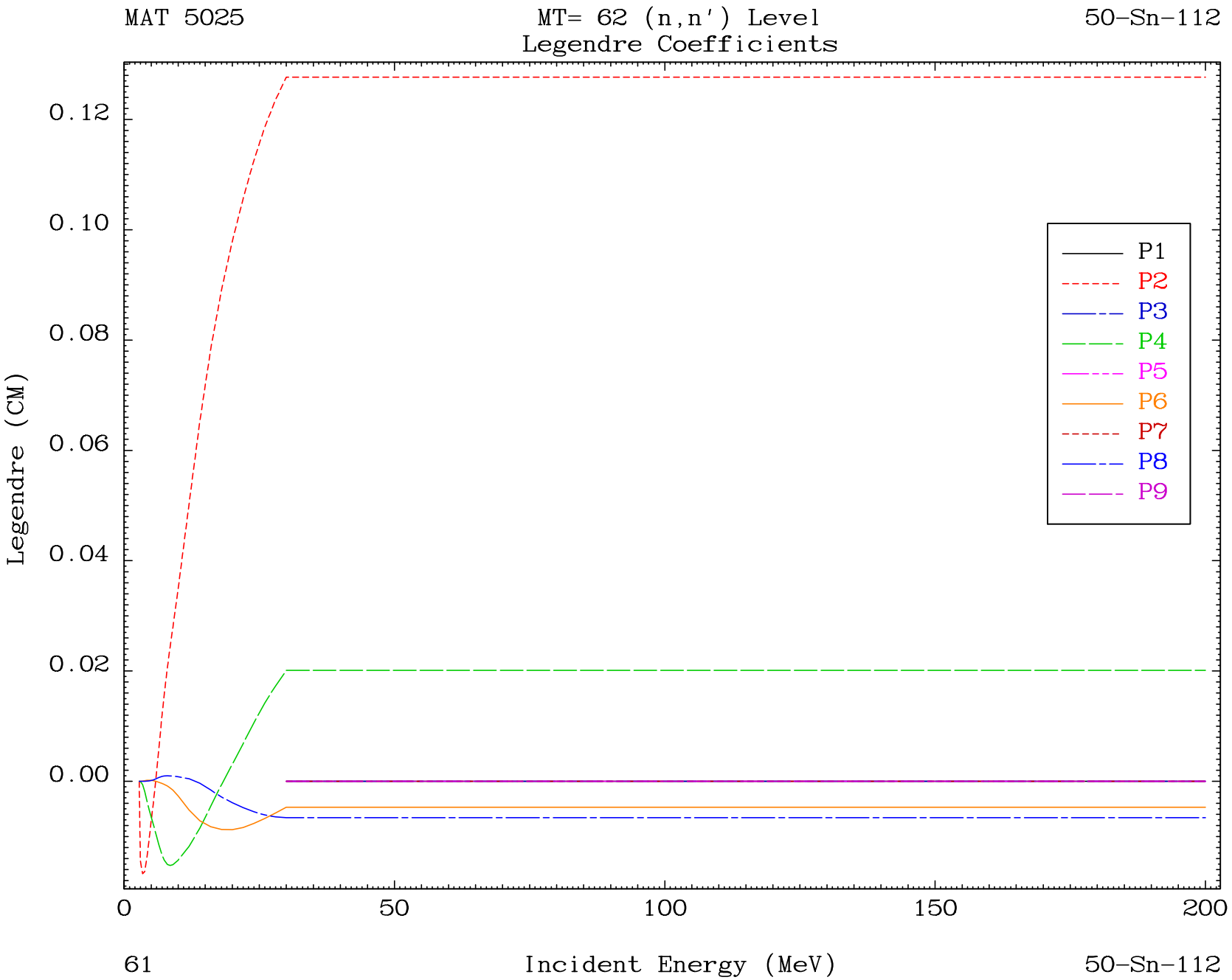

MAT 5025
MT= 60 (n,n') Level
Legendre Coefficients
50-Sn-112
X10^-6
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
50
100
150
200
56
Incident Energy (MeV)
50-Sn-112

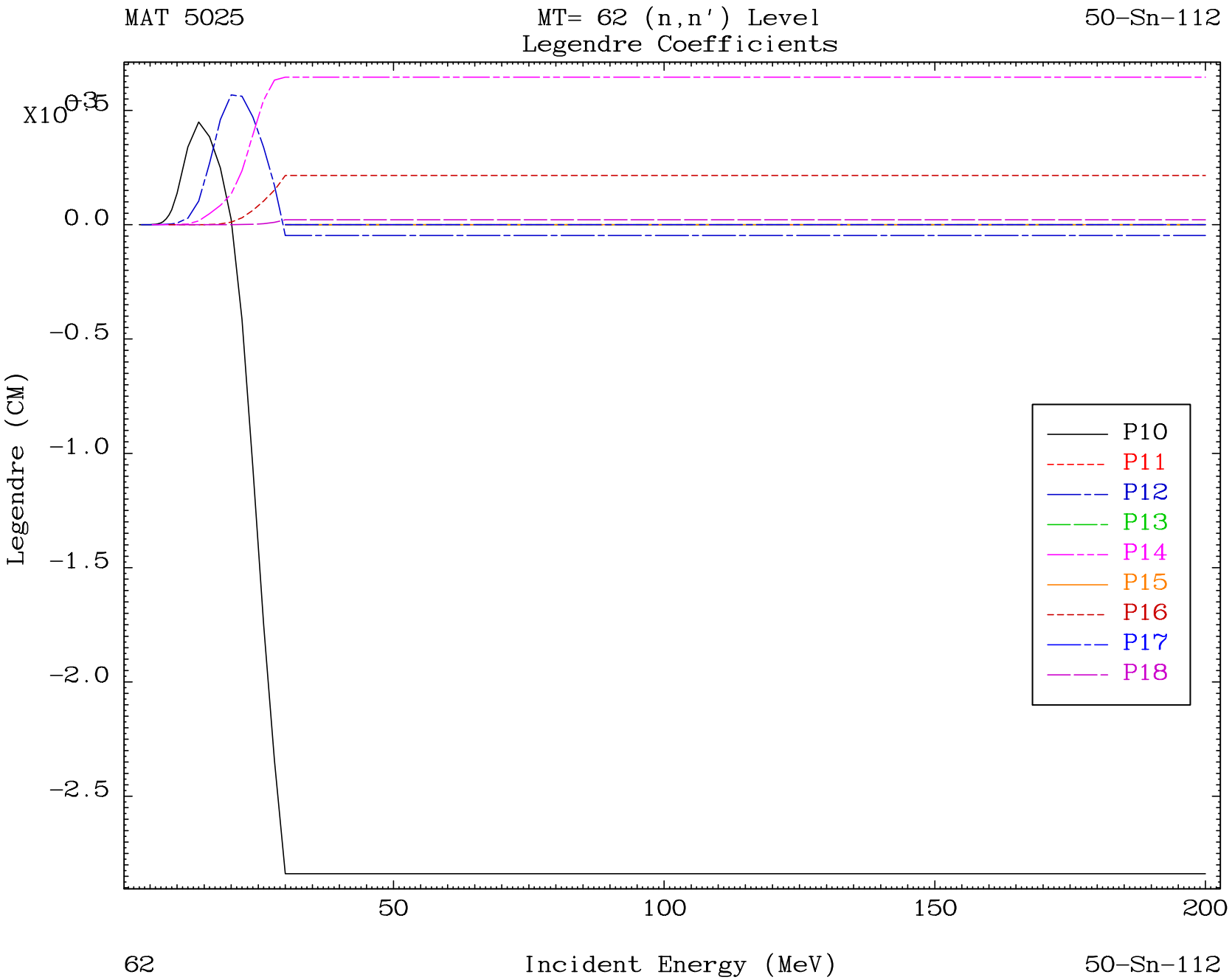

MAT 5025
MT= 61 (n,n') Level
Legendre Coefficients
50-Sn-112
P1
P2
P3
P4
P5
P6
P7
P8
P9
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
57
Incident Energy (MeV)
50-Sn-112

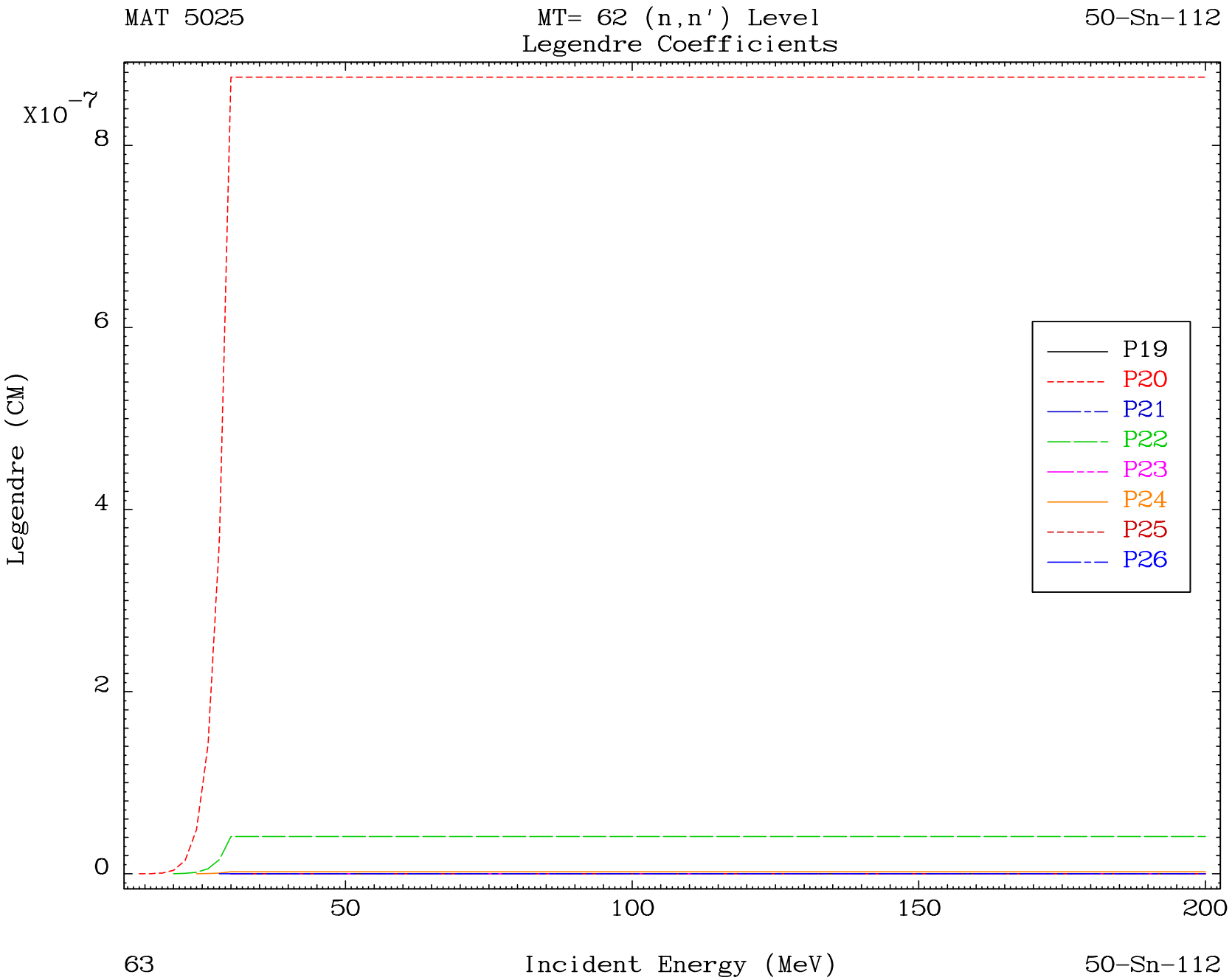

MAT 5025
MT= 61 (n,n') Level
Legendre Coefficients
50-Sn-112
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.04
0.02
0.00
-0.02
-0.04
Legendre (CM)
50
100
150
200
58
Incident Energy (MeV)
50-Sn-112

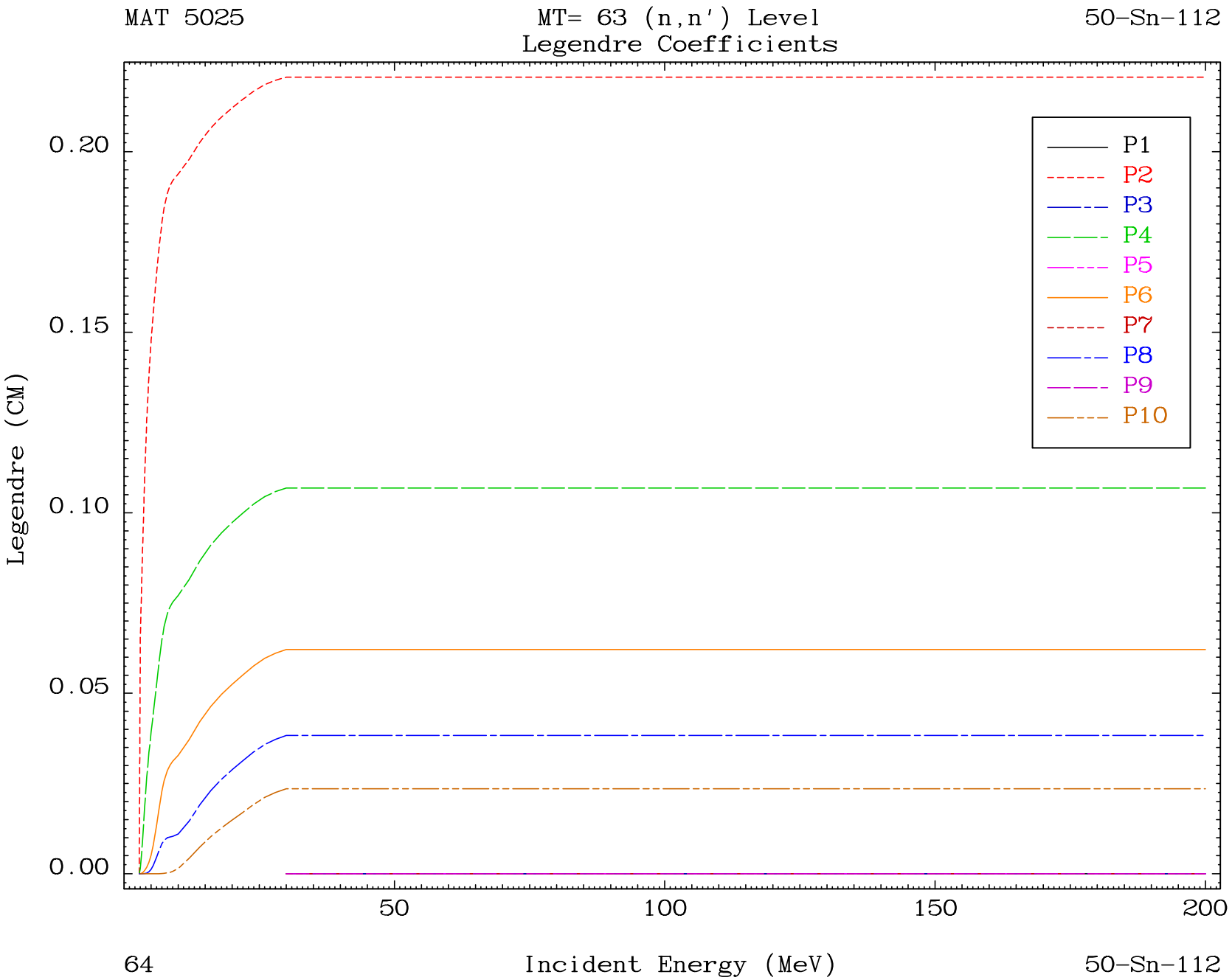

MAT 5025
MT= 61 (n,n') Level
Legendre Coefficients
50-Sn-112
0.005
0.004
0.003
0.002
0.001
0.000
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
59
Incident Energy (MeV)
50-Sn-112

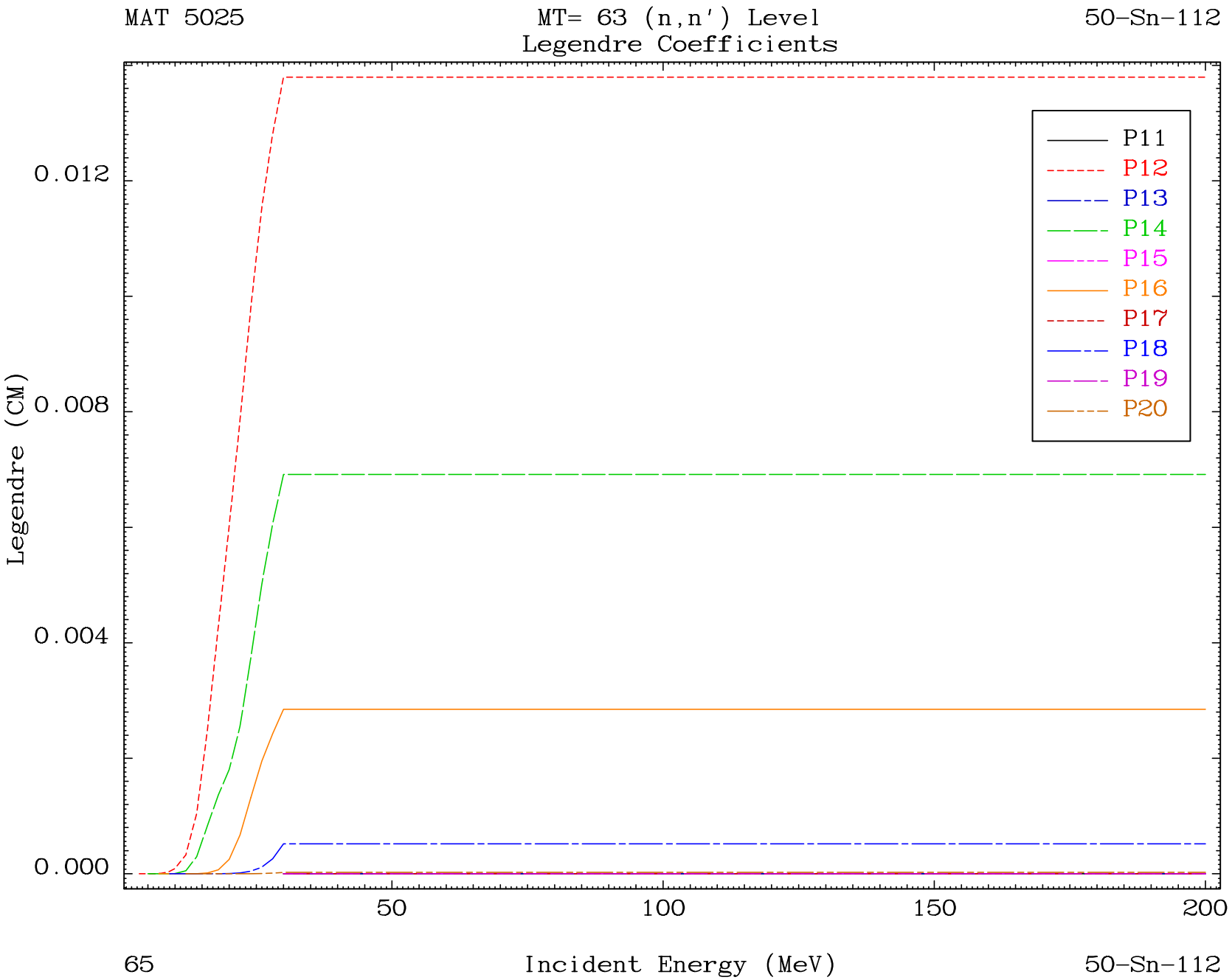

MAT 5025
MT= 61 (n,n') Level
Legendre Coefficients
50-Sn-112
X10^-6
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
60
Incident Energy (MeV)
50-Sn-112

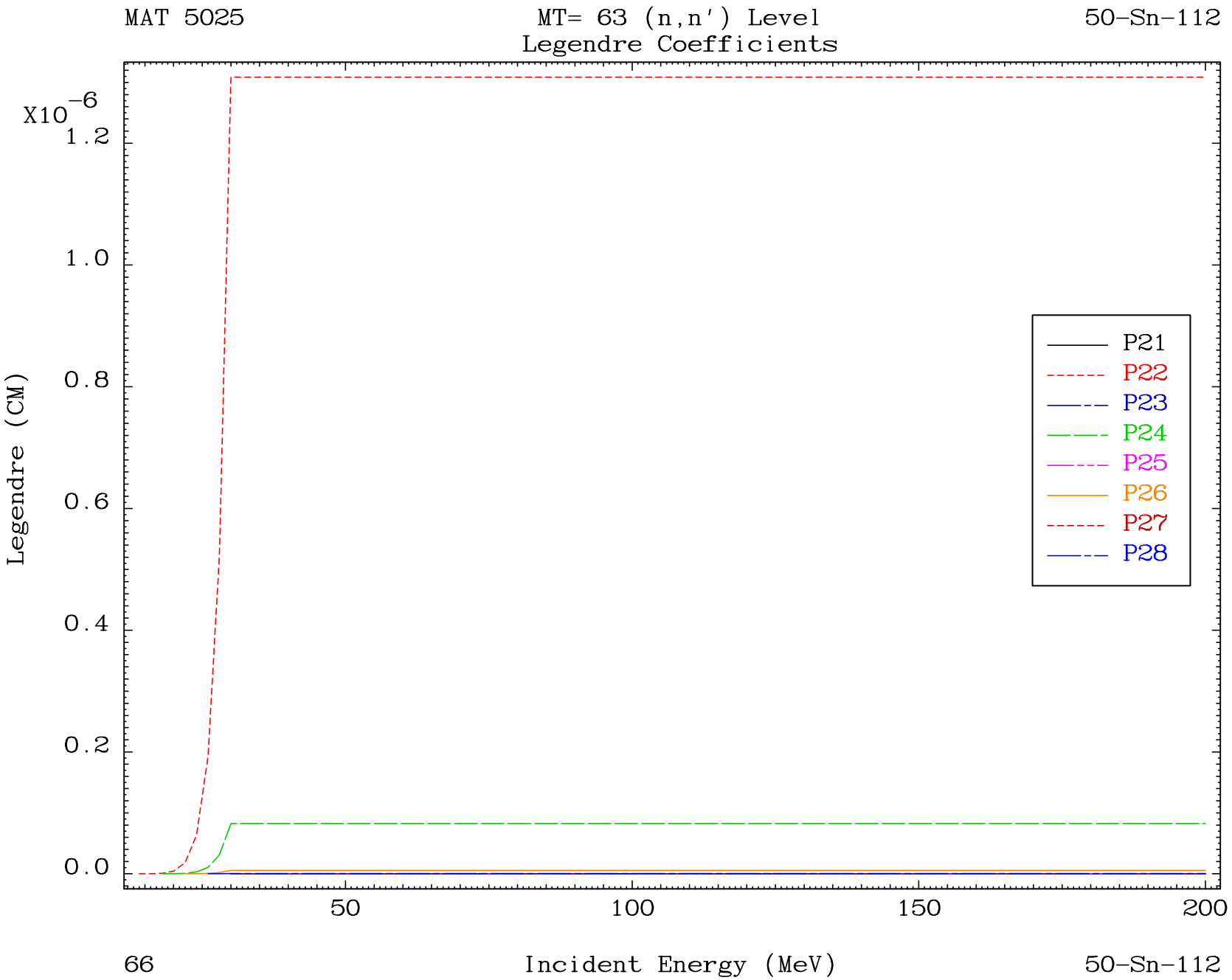

MAT 5025
MT= 62 (n,n') Level
Legendre Coefficients
50-Sn-112
0.12
0.10
0.08
0.06
0.04
0.02
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
61
Incident Energy (MeV)
50-Sn-112

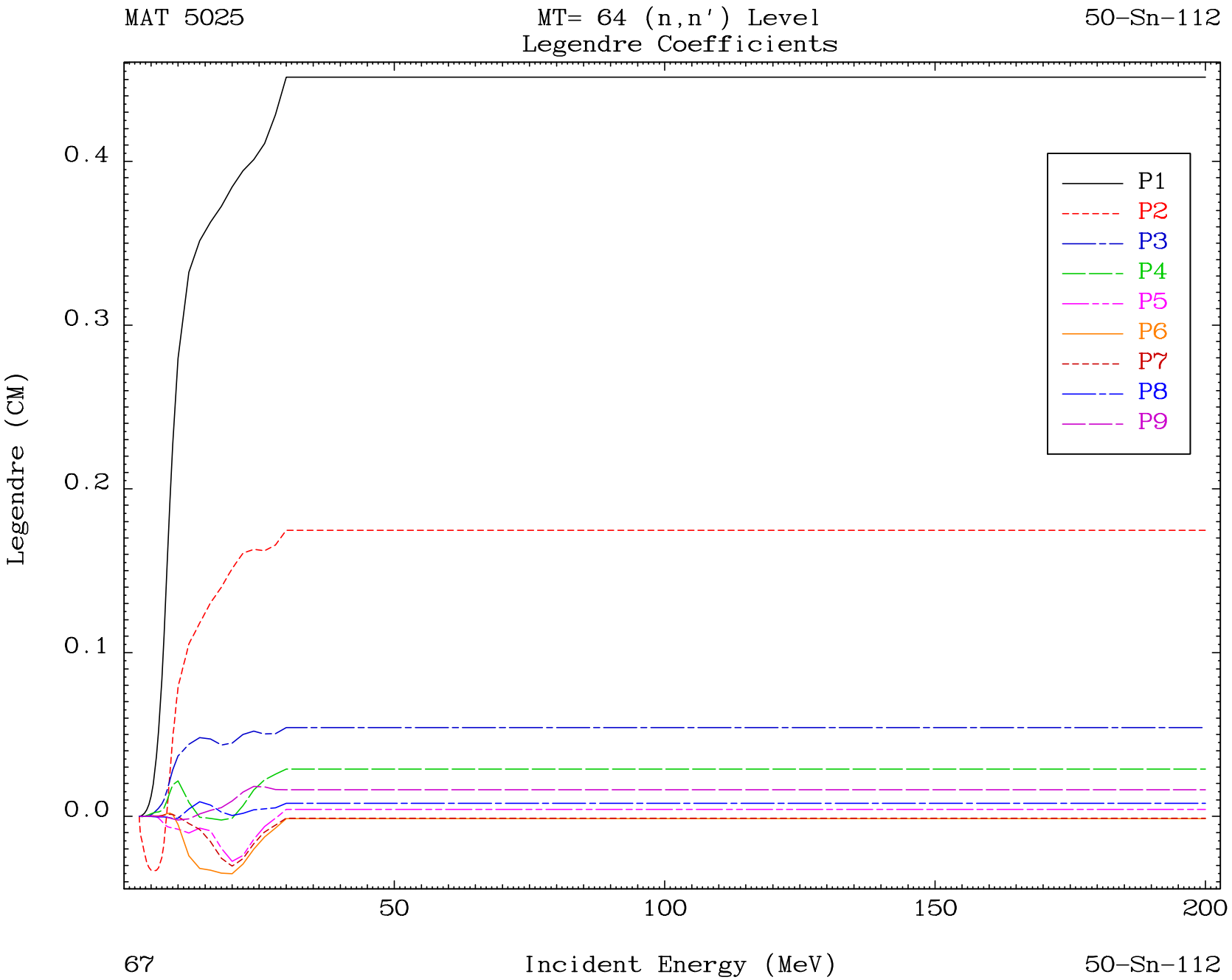

MAT 5025
MT= 62 (n,n') Level
Legendre Coefficients
50-Sn-112
X10^-3
0.5
0.0
-0.5
-1.0
-1.5
-2.0
-2.5
Legendre (CM)
50
100
150
200
62
Incident Energy (MeV)
50-Sn-112
P10
P11
P12
P13
P14
P15
P16
P17
P18

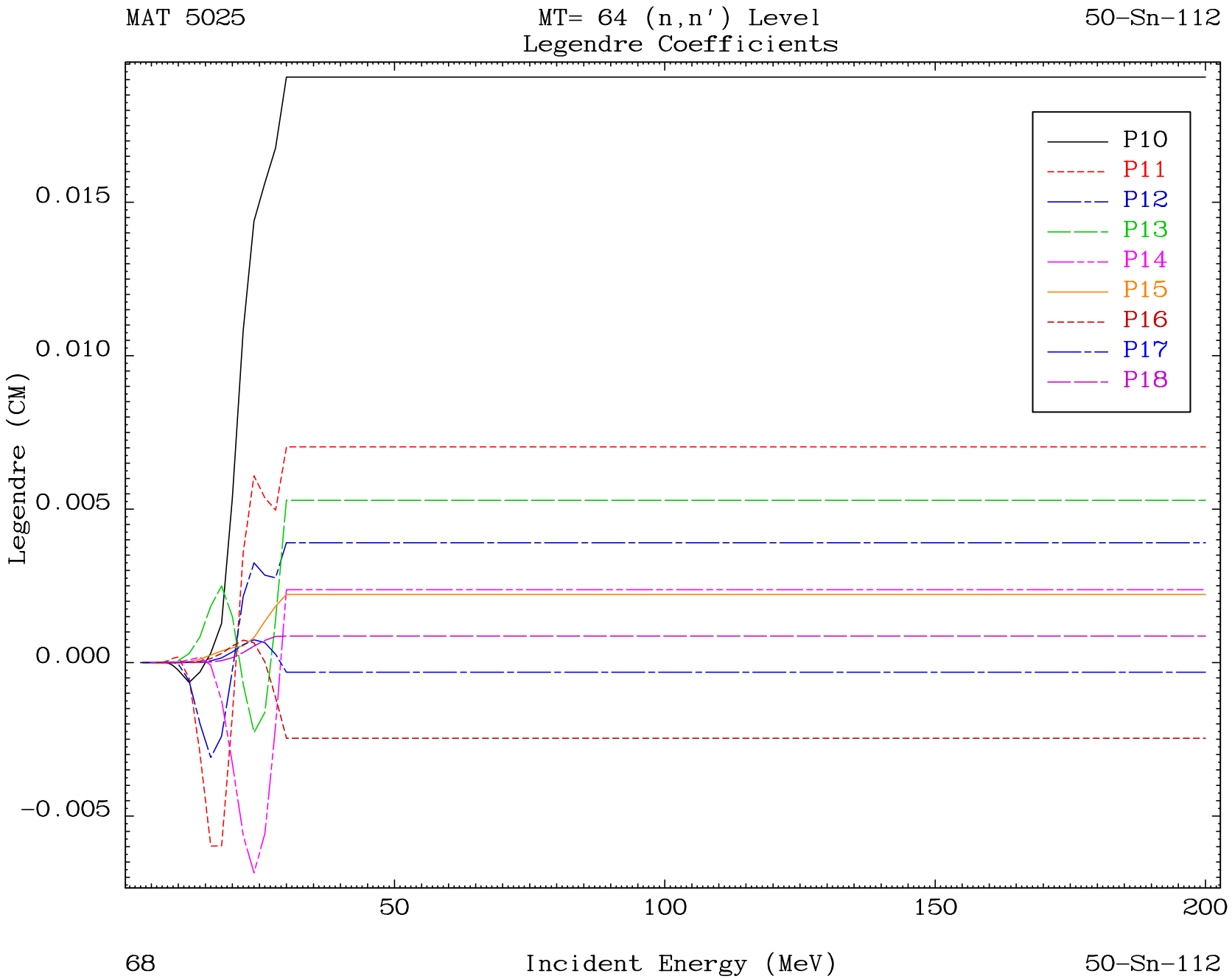

MAT 5025
MT= 62 (n,n') Level
Legendre Coefficients
50-Sn-112
X10^-7
8
6
4
2
0
Legendre (CM)
50
100
150
200
P19
P20
P21
P22
P23
P24
P25
P26
63
Incident Energy (MeV)
50-Sn-112

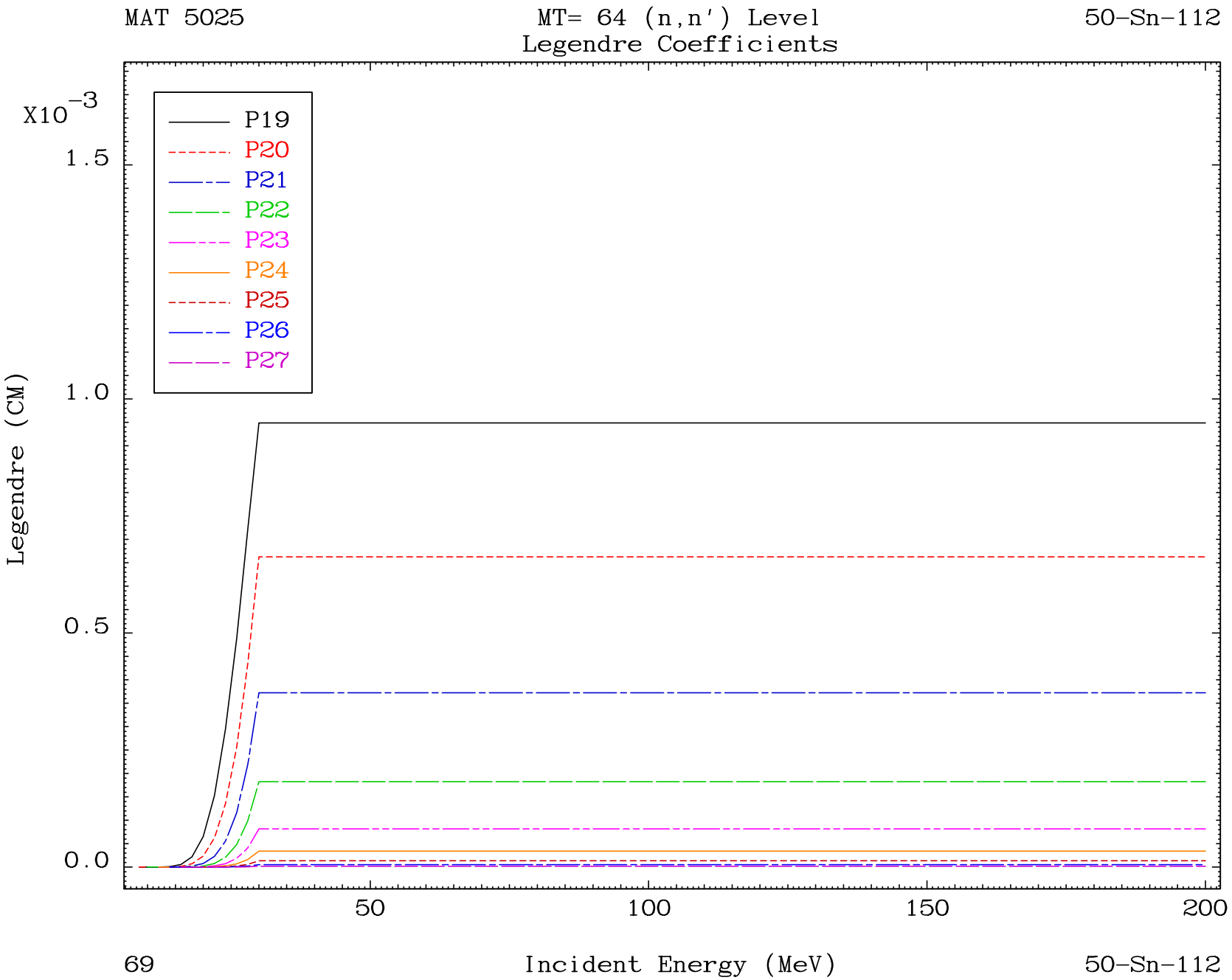

MAT 5025
MT= 63 (n,n') Level
Legendre Coefficients
50-Sn-112
Legendre (CM)
0.20
0.15
0.10
0.05
0.00
50
100
150
200
64
Incident Energy (MeV)
50-Sn-112
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10

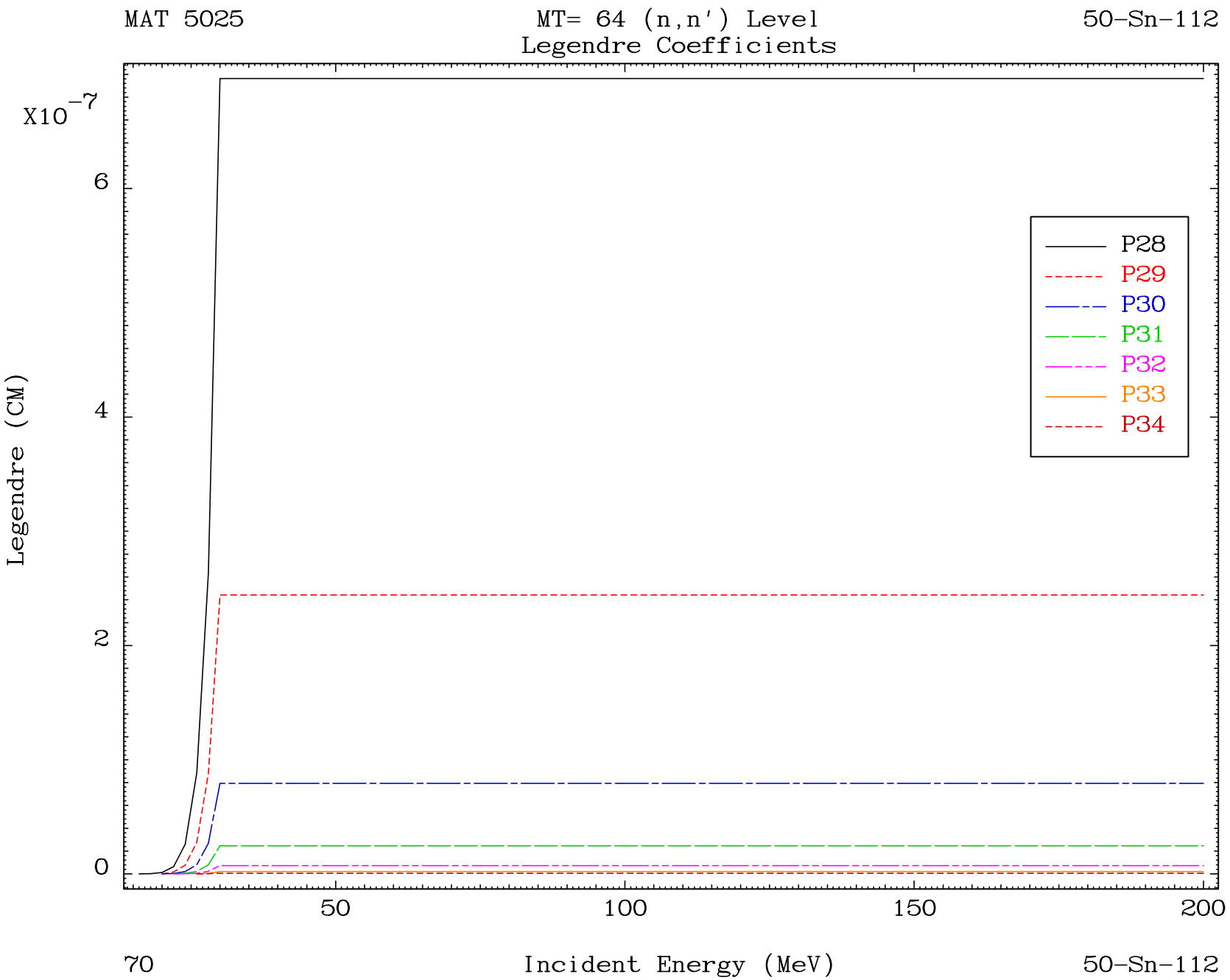

MAT 5025
MT= 63 (n,n') Level
Legendre Coefficients
50-Sn-112
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.012
0.008
0.004
0.000
Legendre (CM)
50
100
150
200
65
Incident Energy (MeV)
50-Sn-112

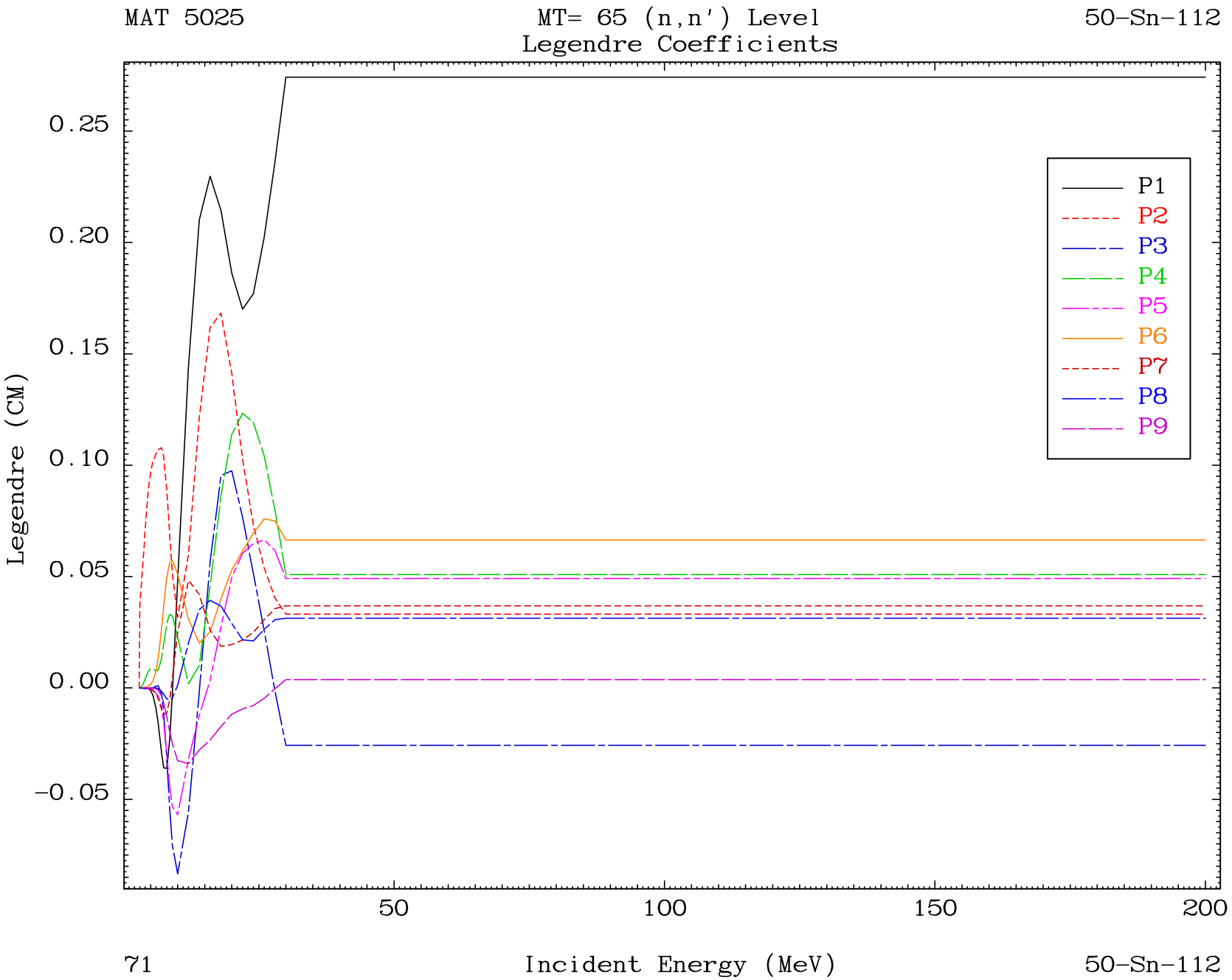

MAT 5025
MT= 63 (n,n') Level
Legendre Coefficients
50-Sn-112
X10^-6
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
50
100
150
200
66
Incident Energy (MeV)
50-Sn-112

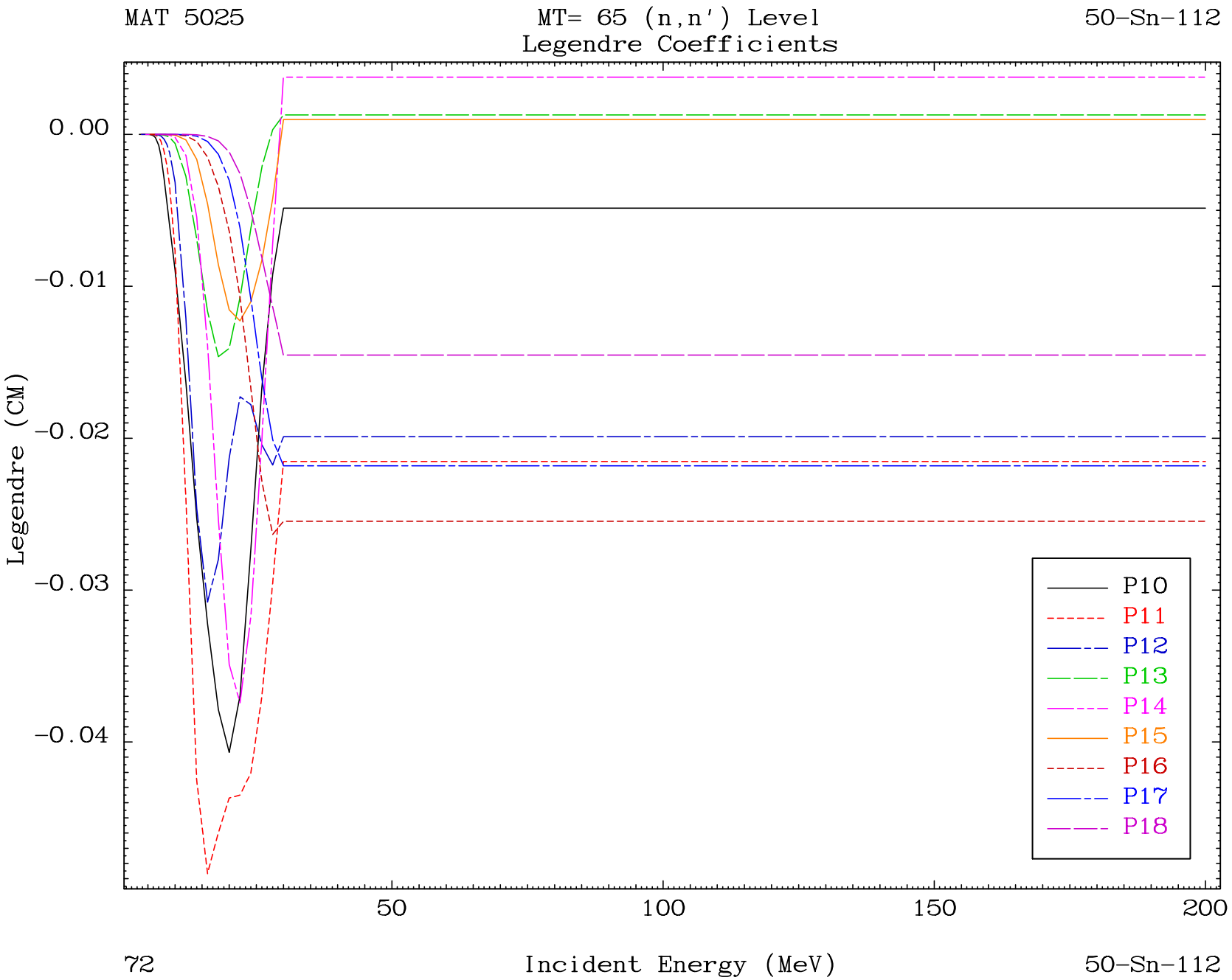

MAT 5025
MT= 64 (n,n') Level
Legendre Coefficients
50-Sn-112
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
67
Incident Energy (MeV)
50-Sn-112

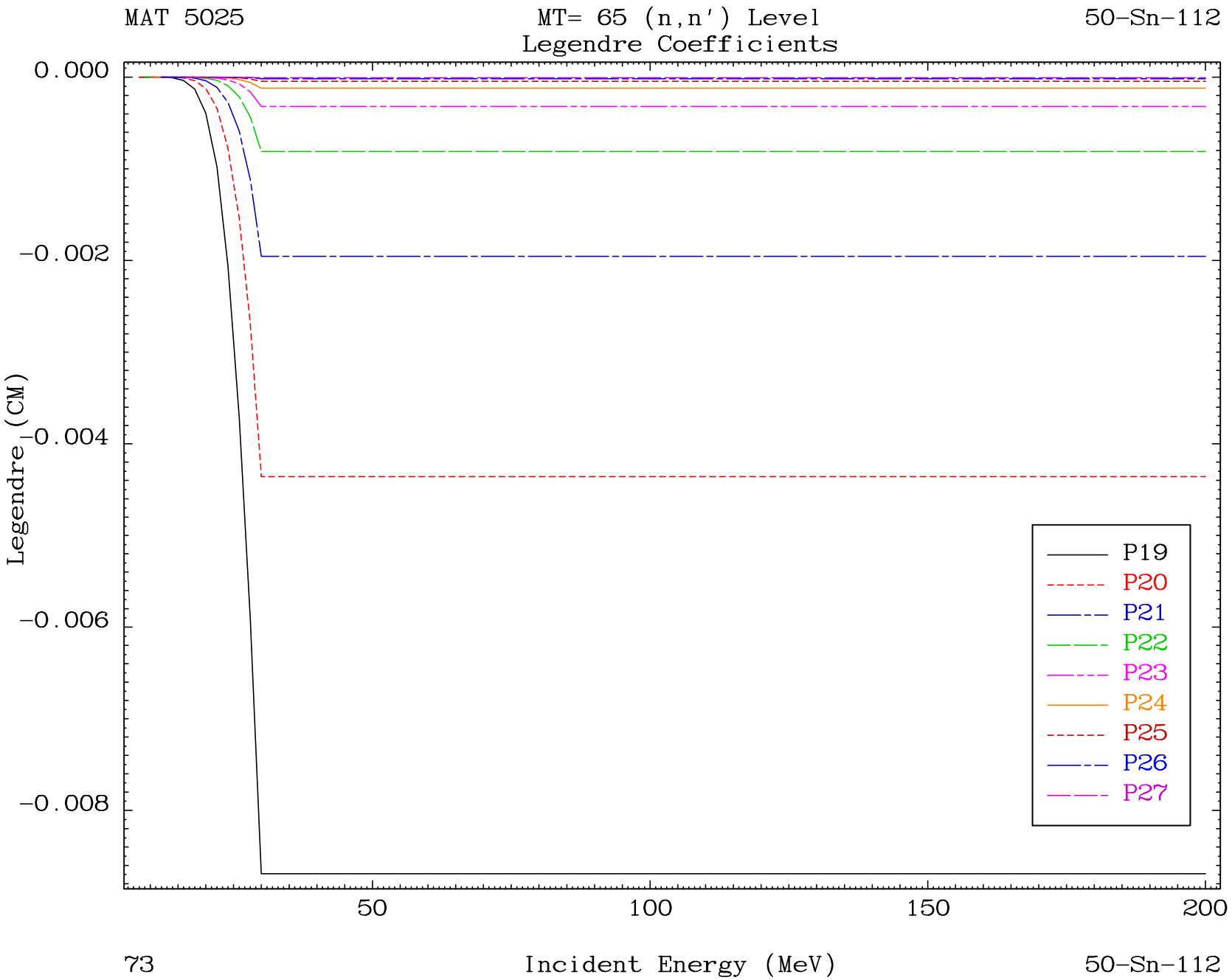

MAT 5025
MT= 64 (n,n') Level
Legendre Coefficients
50-Sn-112
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.015
0.010
0.005
0.000
-0.005
Legendre (CM)
50
100
150
200
68
Incident Energy (MeV)
50-Sn-112

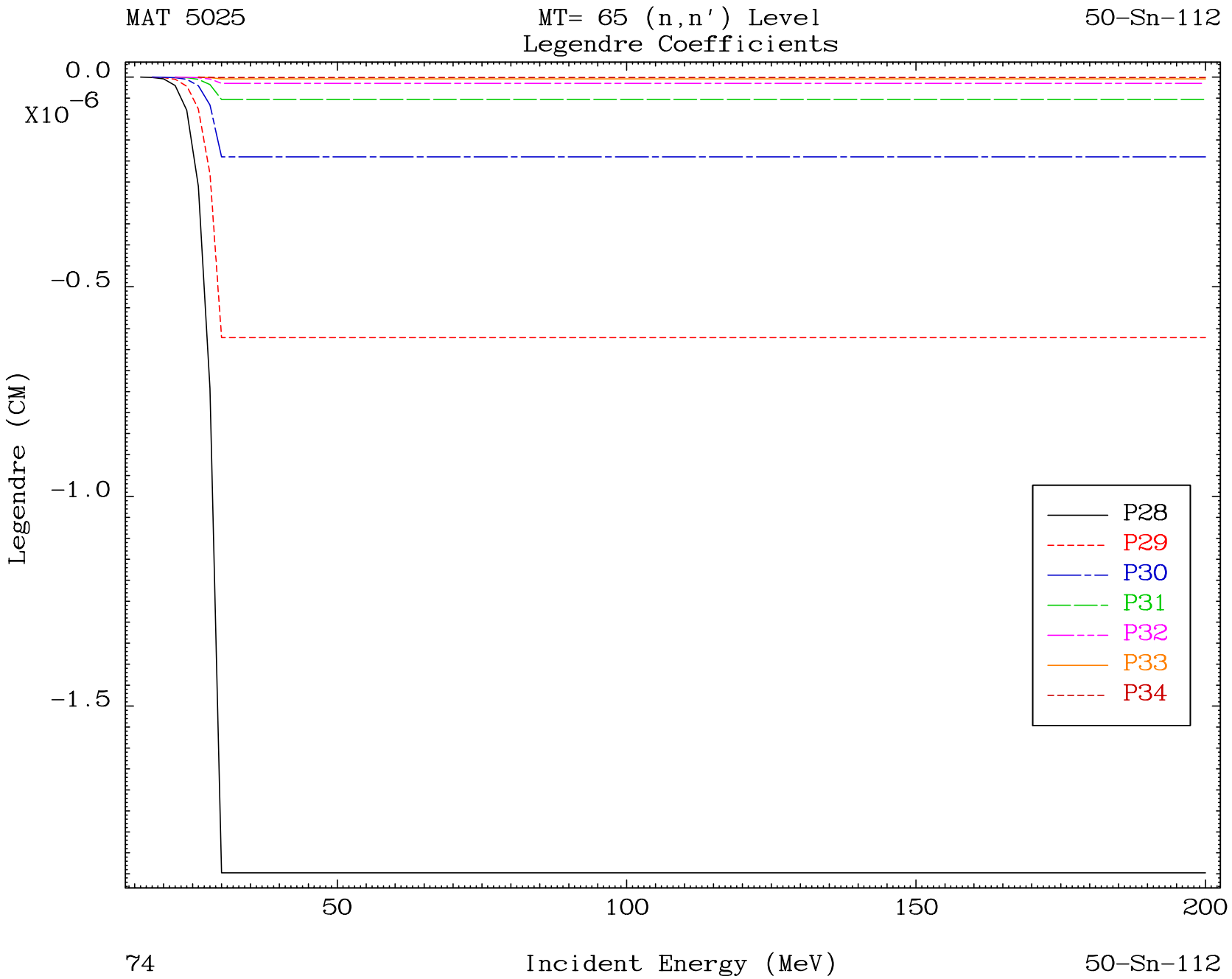

MAT 5025
MT= 64 (n,n') Level
Legendre Coefficients
50-Sn-112
X10-3
1.5
1.0
0.5
0.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
69
Incident Energy (MeV)
50-Sn-112

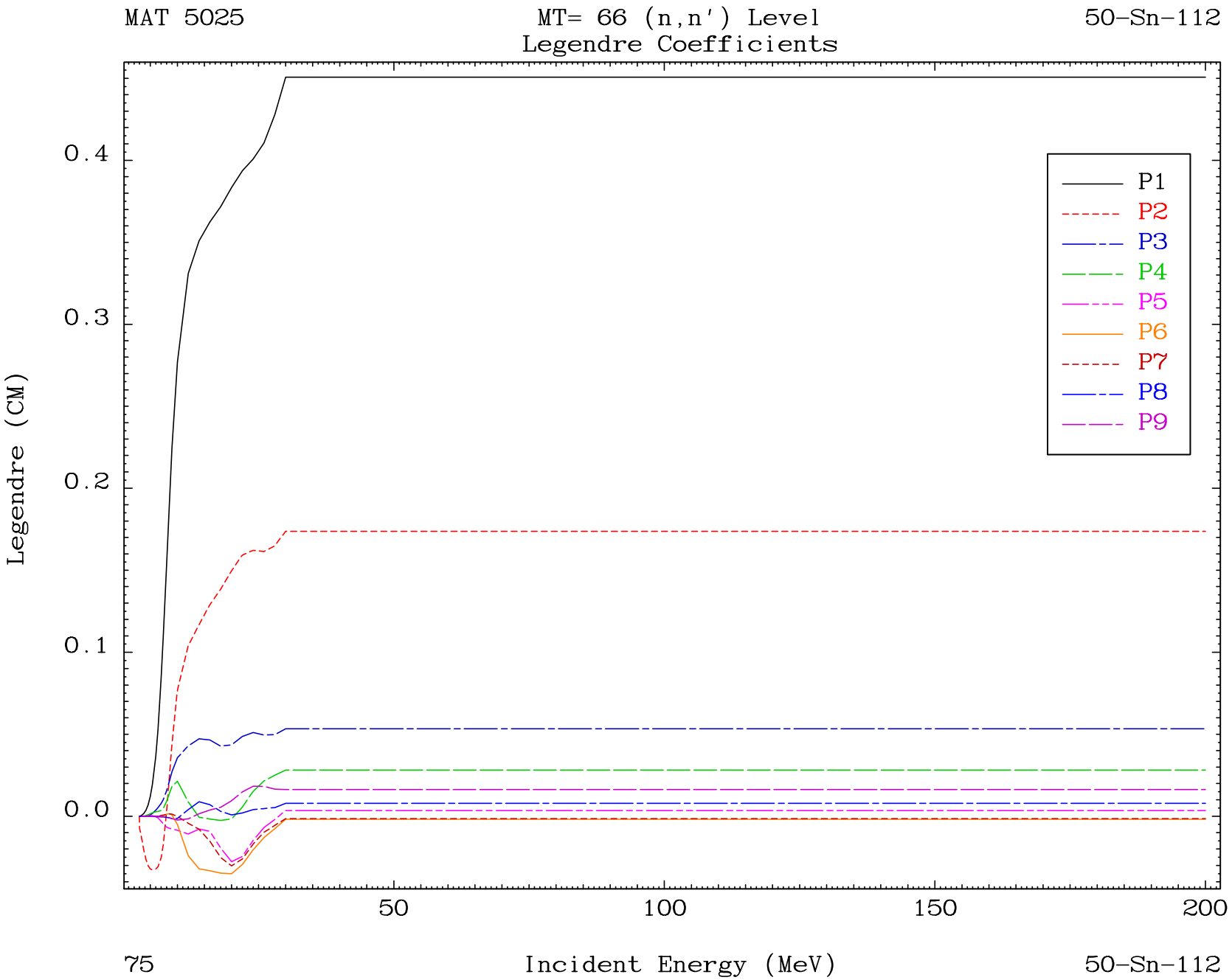

MAT 5025
MT= 64 (n,n') Level
Legendre Coefficients
50-Sn-112
X10-7
6
4
2
0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
70
Incident Energy (MeV)
50-Sn-112

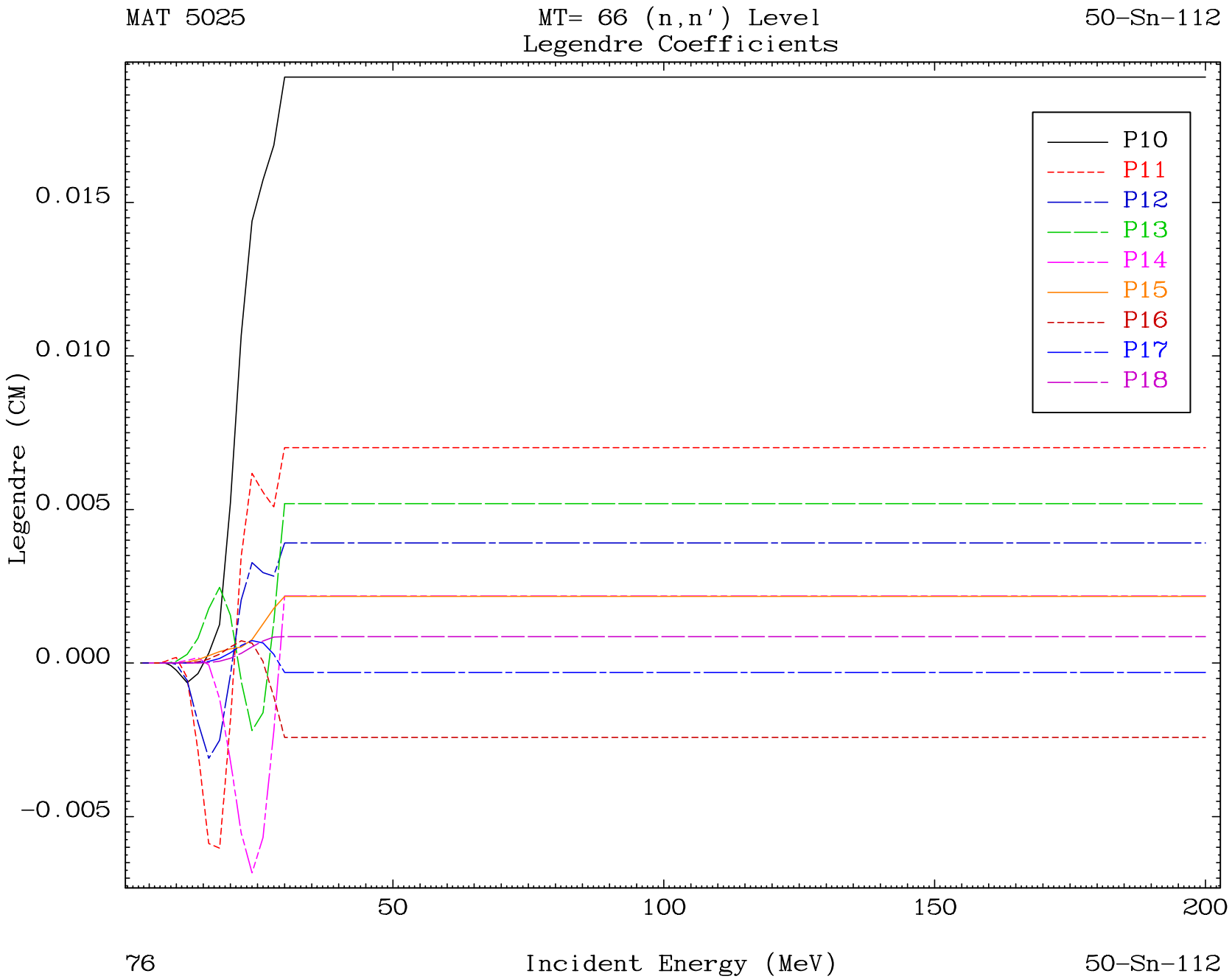

MAT 5025
MT= 65 (n,n') Level
Legendre Coefficients
50-Sn-112
0.25
0.20
0.15
0.10
0.05
0.00
-0.05
Legendre (CM)
50
100
150
200
71
Incident Energy (MeV)
50-Sn-112
P1
P2
P3
P4
P5
P6
P7
P8
P9

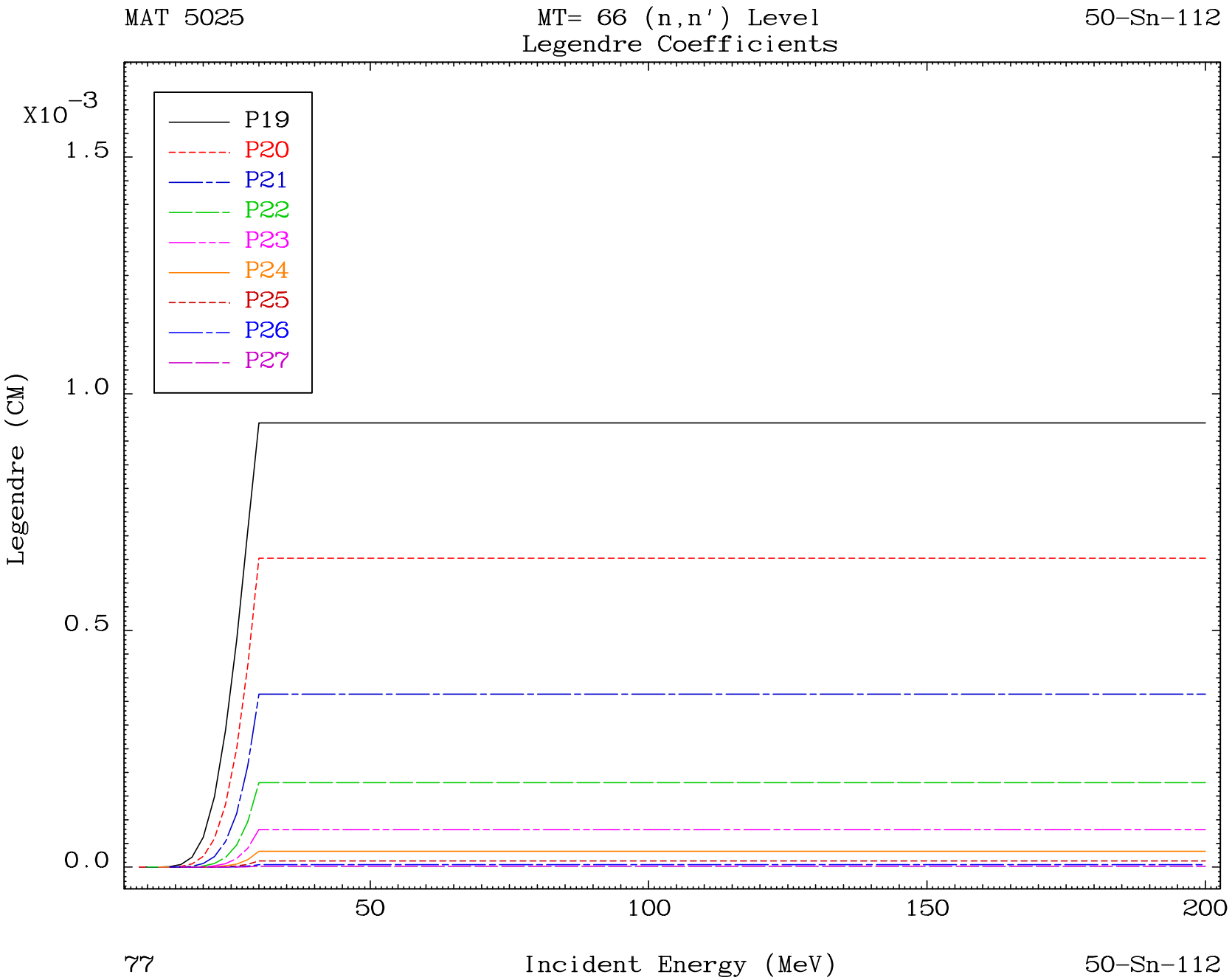

MAT 5025
MT= 65 (n,n') Level
Legendre Coefficients
50-Sn-112
0.00
-0.01
-0.02
-0.03
-0.04
Legendre (CM)
50
100
150
200
72
Incident Energy (MeV)
50-Sn-112
P10
P11
P12
P13
P14
P15
P16
P17
P18

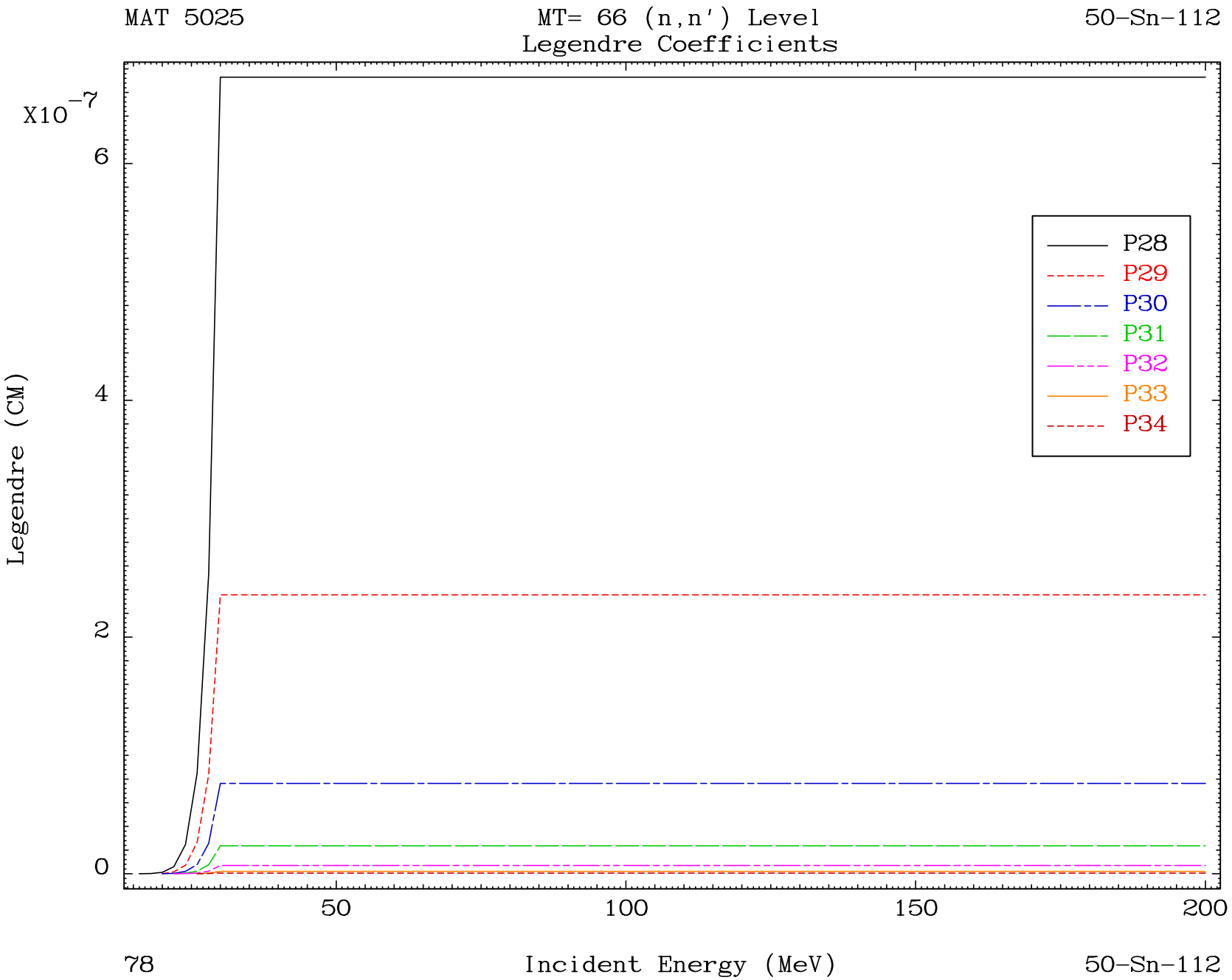

MAT 5025
MT= 65 (n,n') Level
Legendre Coefficients
50-Sn-112
0.000
-0.002
-0.004
-0.006
-0.008
Legendre (CM)
50
100
150
200
73
Incident Energy (MeV)
50-Sn-112
P19
P20
P21
P22
P23
P24
P25
P26
P27

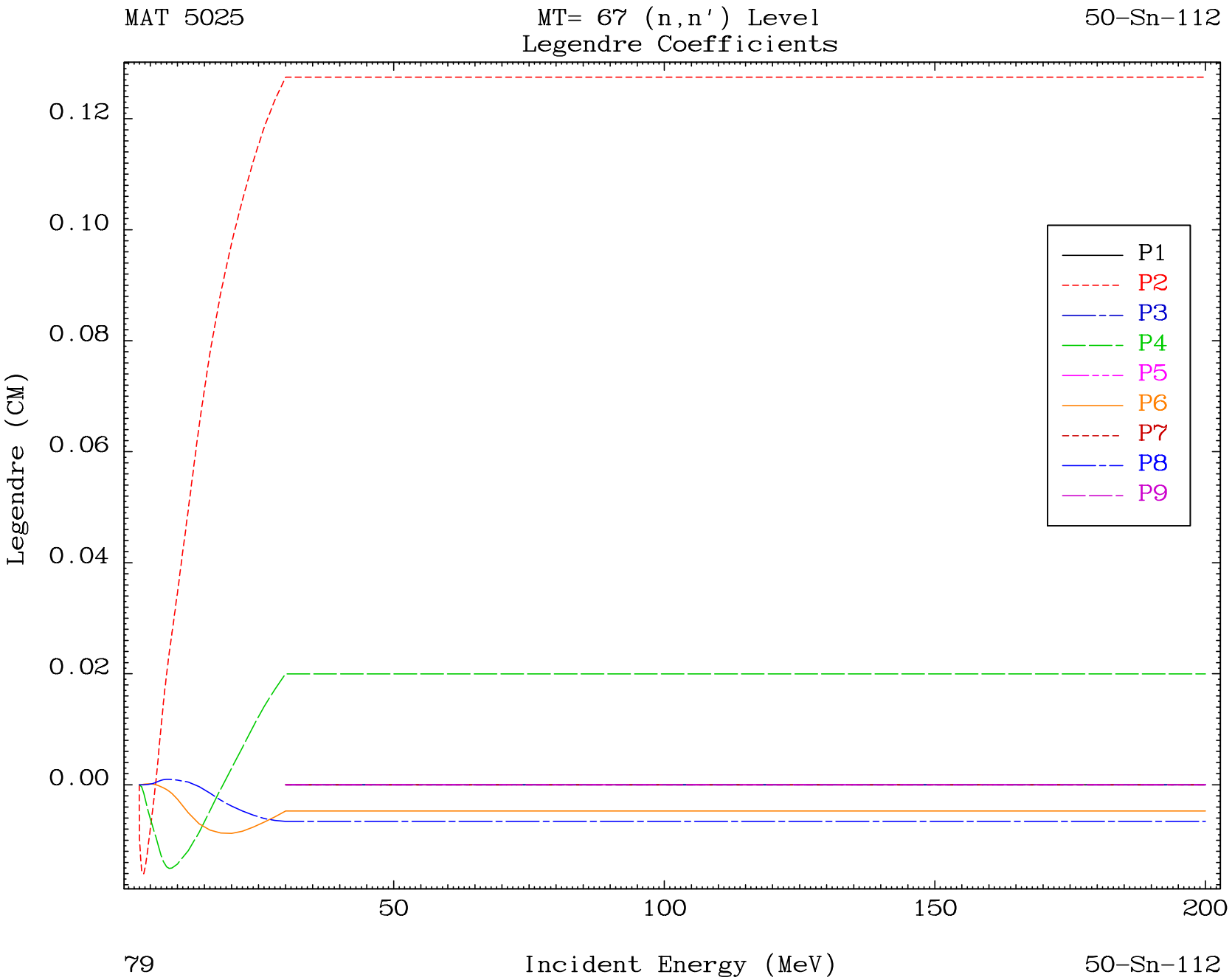

MAT 5025
MT= 65 (n,n') Level
Legendre Coefficients
50-Sn-112
0.0
X10^-6
-0.5
-1.0
-1.5
Legendre (CM)
50
100
150
200
74
Incident Energy (MeV)
50-Sn-112
P28
P29
P30
P31
P32
P33
P34

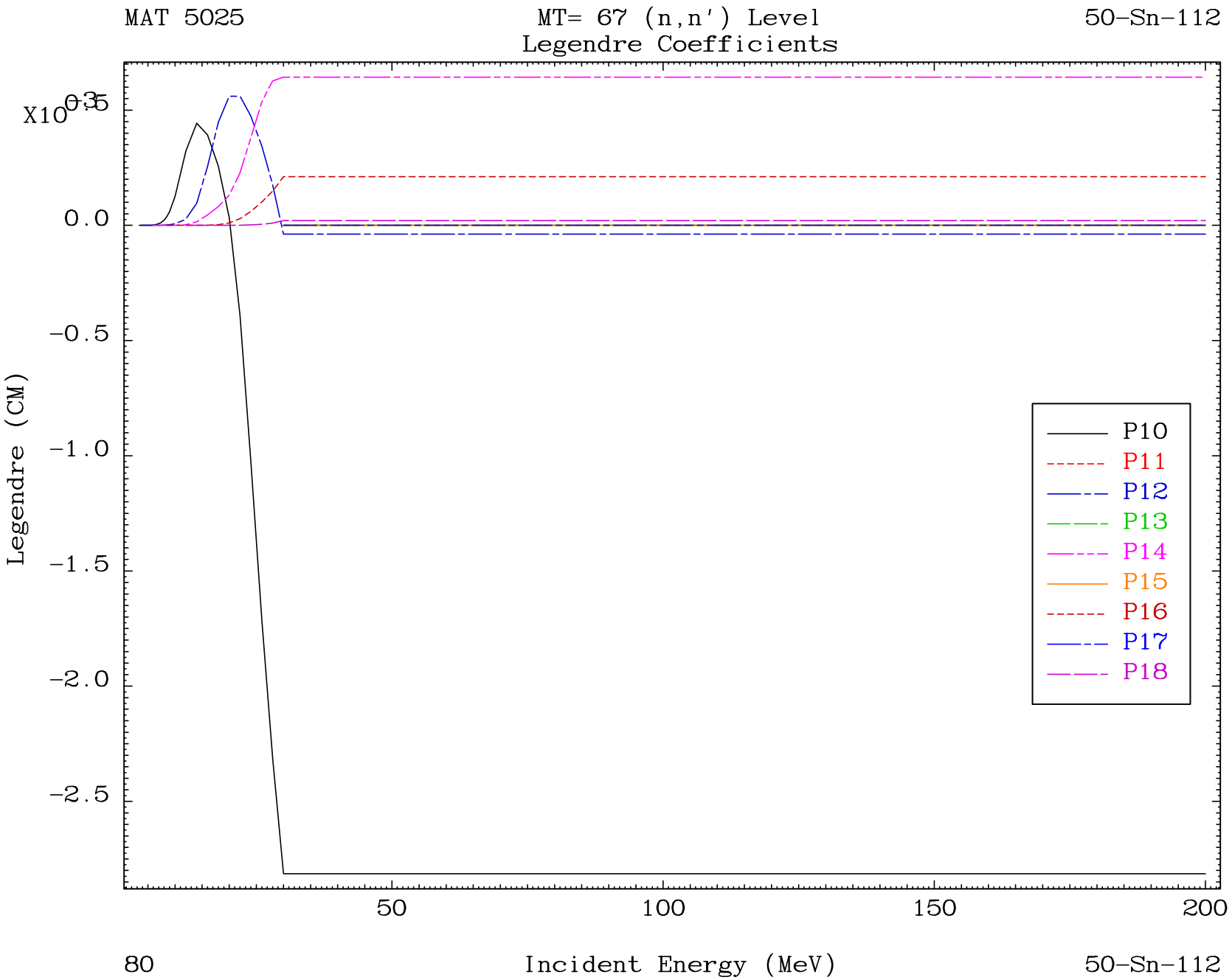

MAT 5025
MT= 66 (n,n') Level
Legendre Coefficients
50-Sn-112
0.4
0.3
0.2
0.1
0.0
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
50
100
150
200
75
Incident Energy (MeV)
50-Sn-112

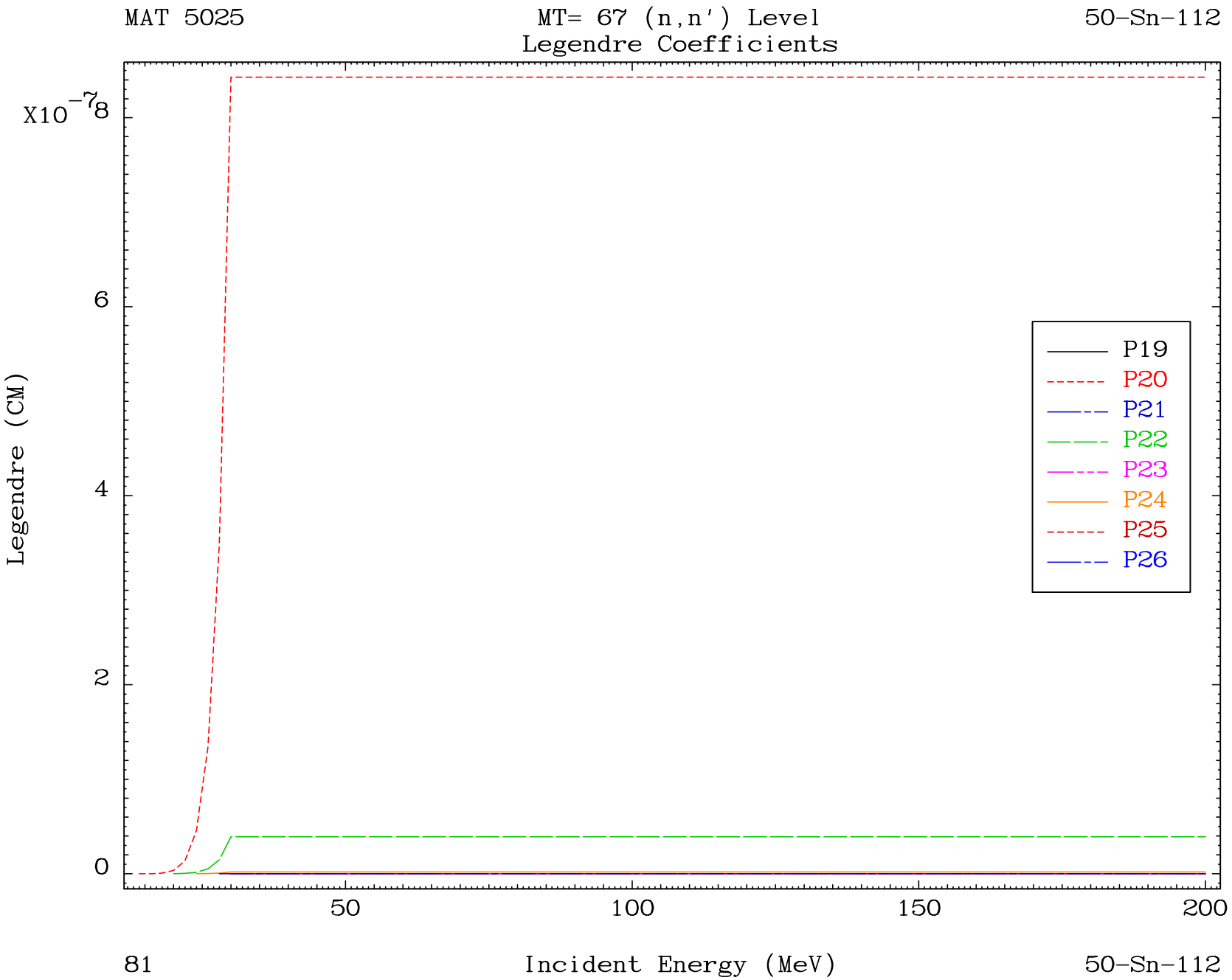

MAT 5025
MT= 66 (n,n') Level
Legendre Coefficients
50-Sn-112
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.015
0.010
0.005
0.000
-0.005
Legendre (CM)
50
100
150
200
76
Incident Energy (MeV)
50-Sn-112

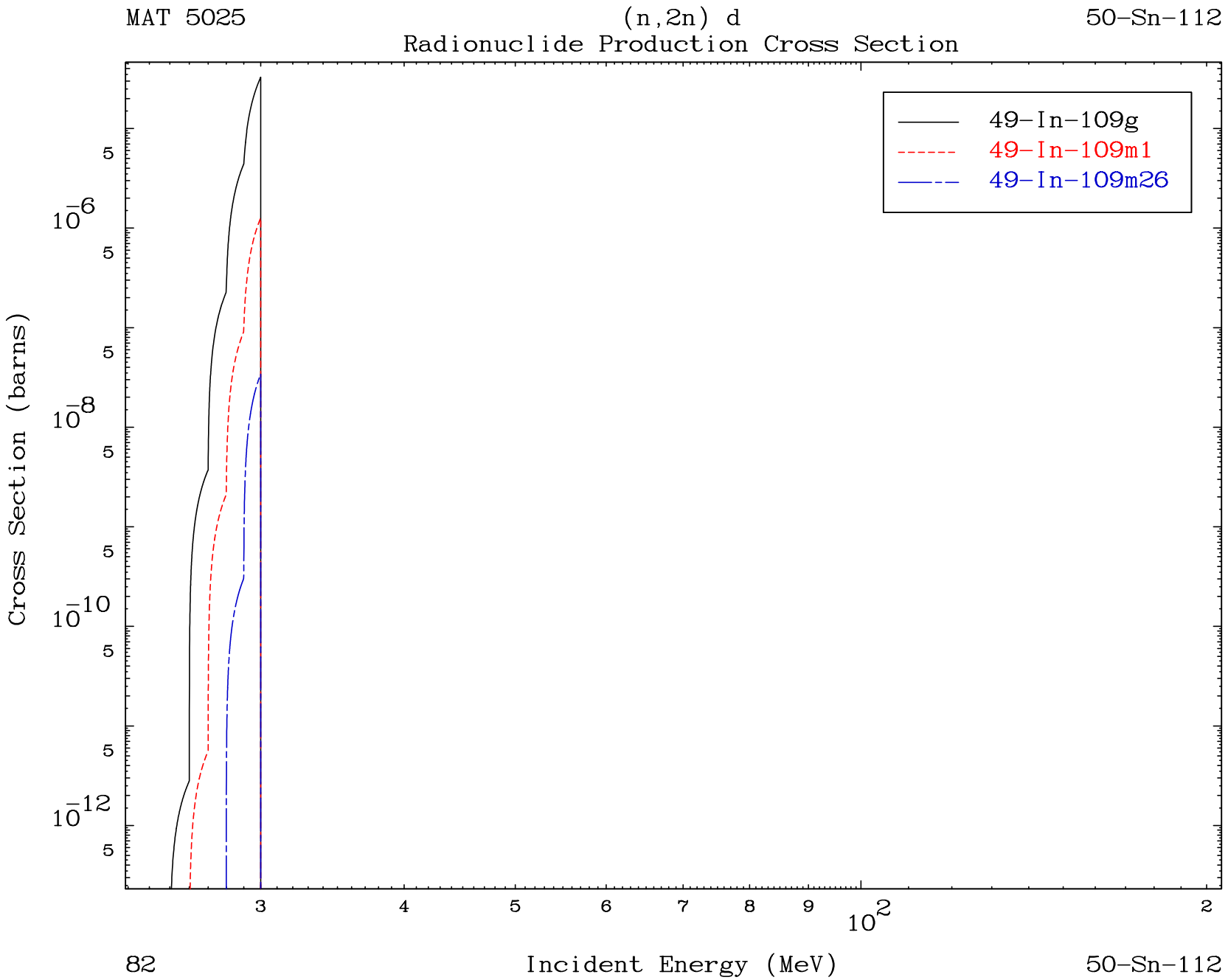

MAT 5025
MT= 66 (n,n') Level
Legendre Coefficients
50-Sn-112
X10^-3
1.5
1.0
0.5
0.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
77
Incident Energy (MeV)
50-Sn-112

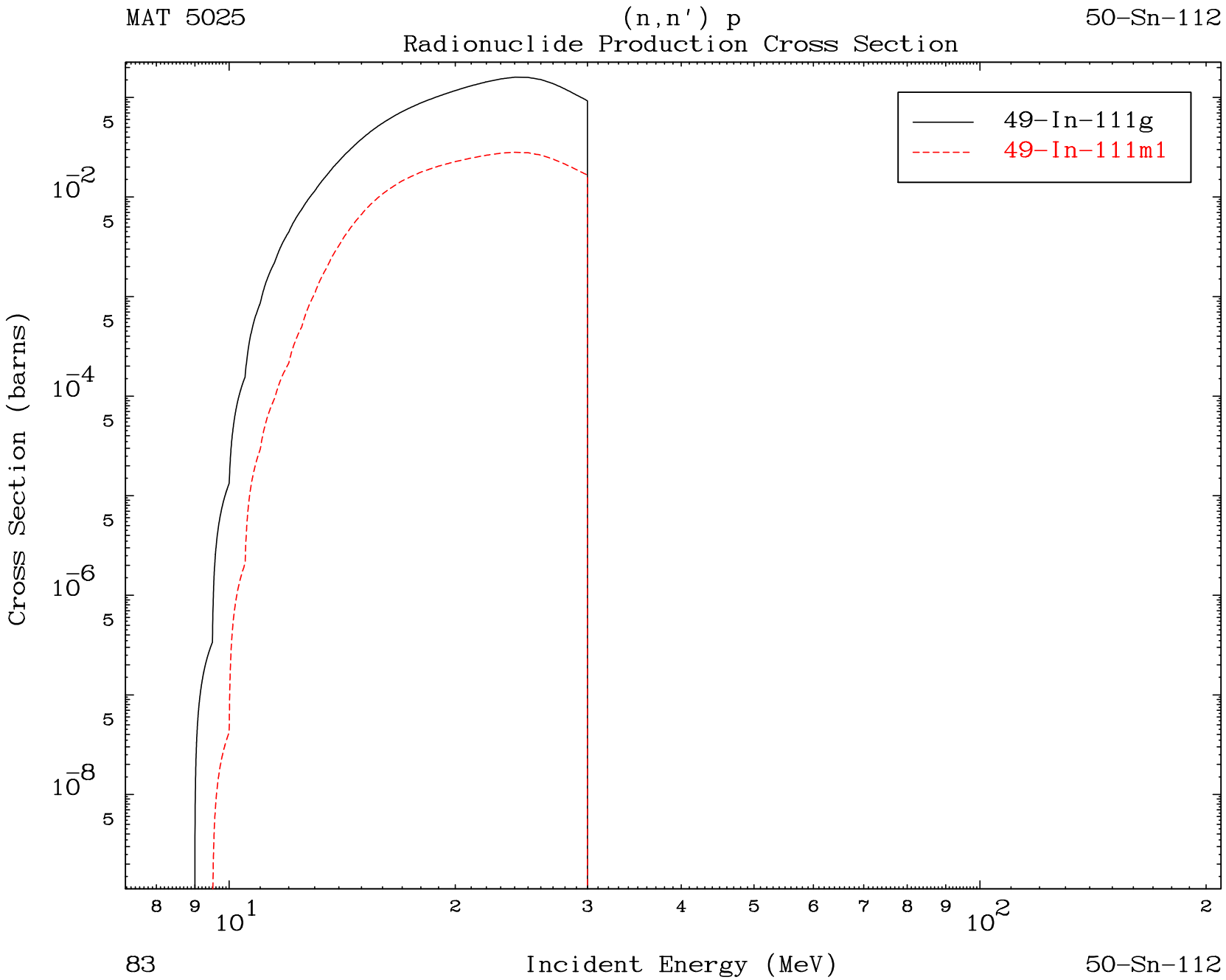

MAT 5025
MT= 66 (n,n') Level
Legendre Coefficients
50-Sn-112
X10^-7
6
4
2
0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
78
Incident Energy (MeV)
50-Sn-112

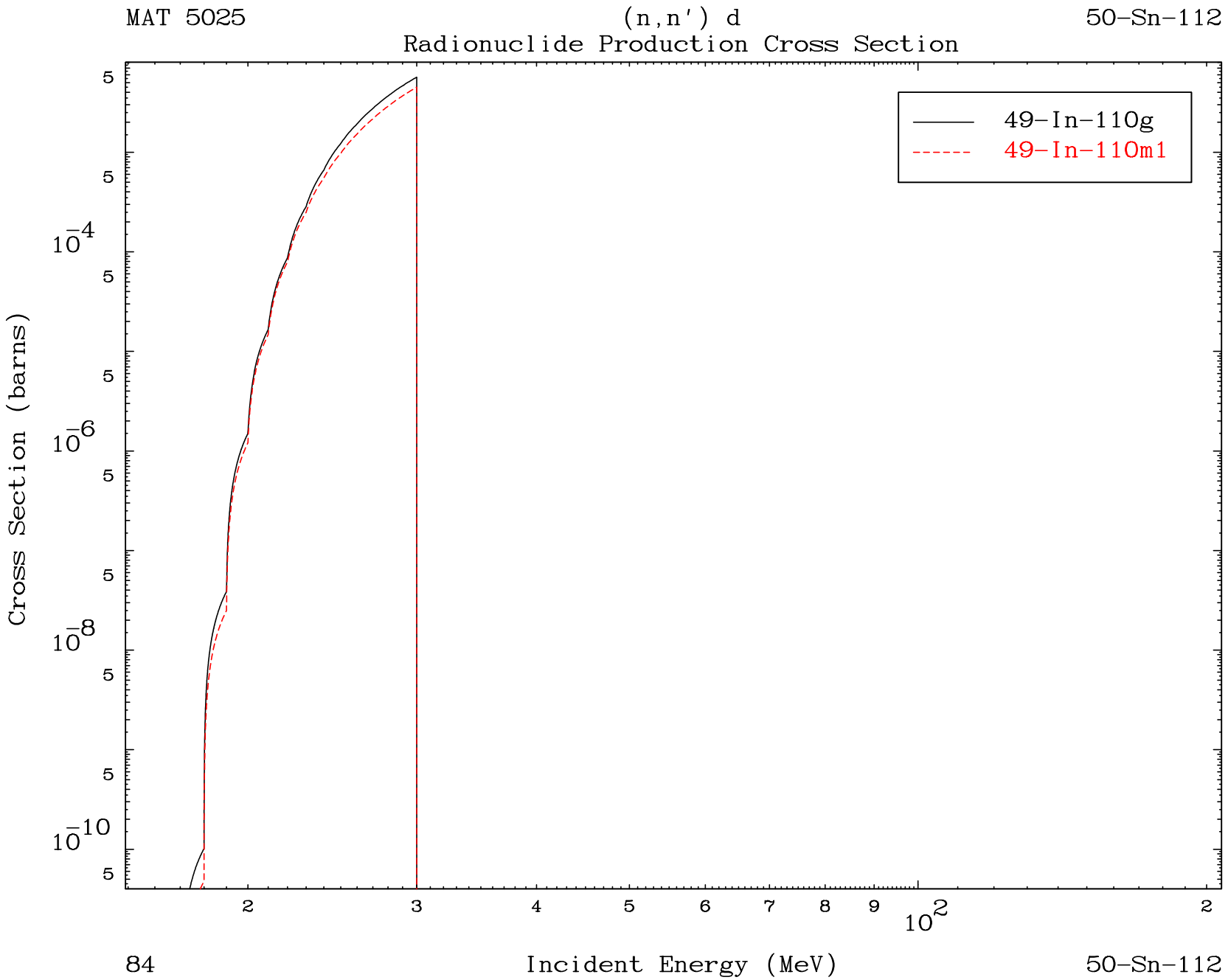

MAT 5025
MT= 67 (n,n') Level
Legendre Coefficients
50-Sn-112
0.12
0.10
0.08
0.06
0.04
0.02
0.00
Legendre (CM)
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
79
Incident Energy (MeV)
50-Sn-112

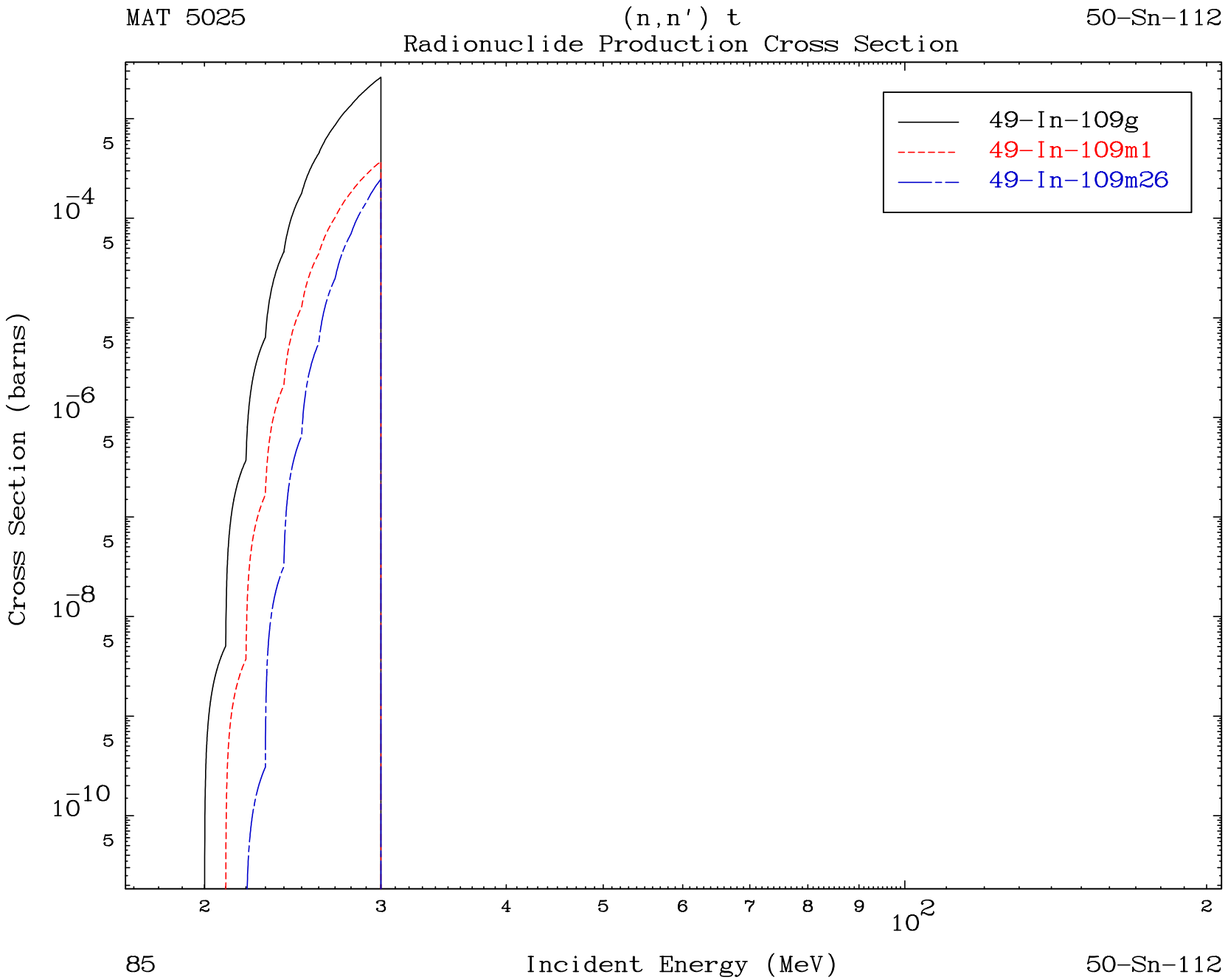

MAT 5025
MT= 67 (n,n') Level
Legendre Coefficients
50-Sn-112
X10^-3
0.5
0.0
-0.5
-1.0
-1.5
-2.0
-2.5
Legendre (CM)
50
100
150
200
80
Incident Energy (MeV)
50-Sn-112
P10
P11
P12
P13
P14
P15
P16
P17
P18

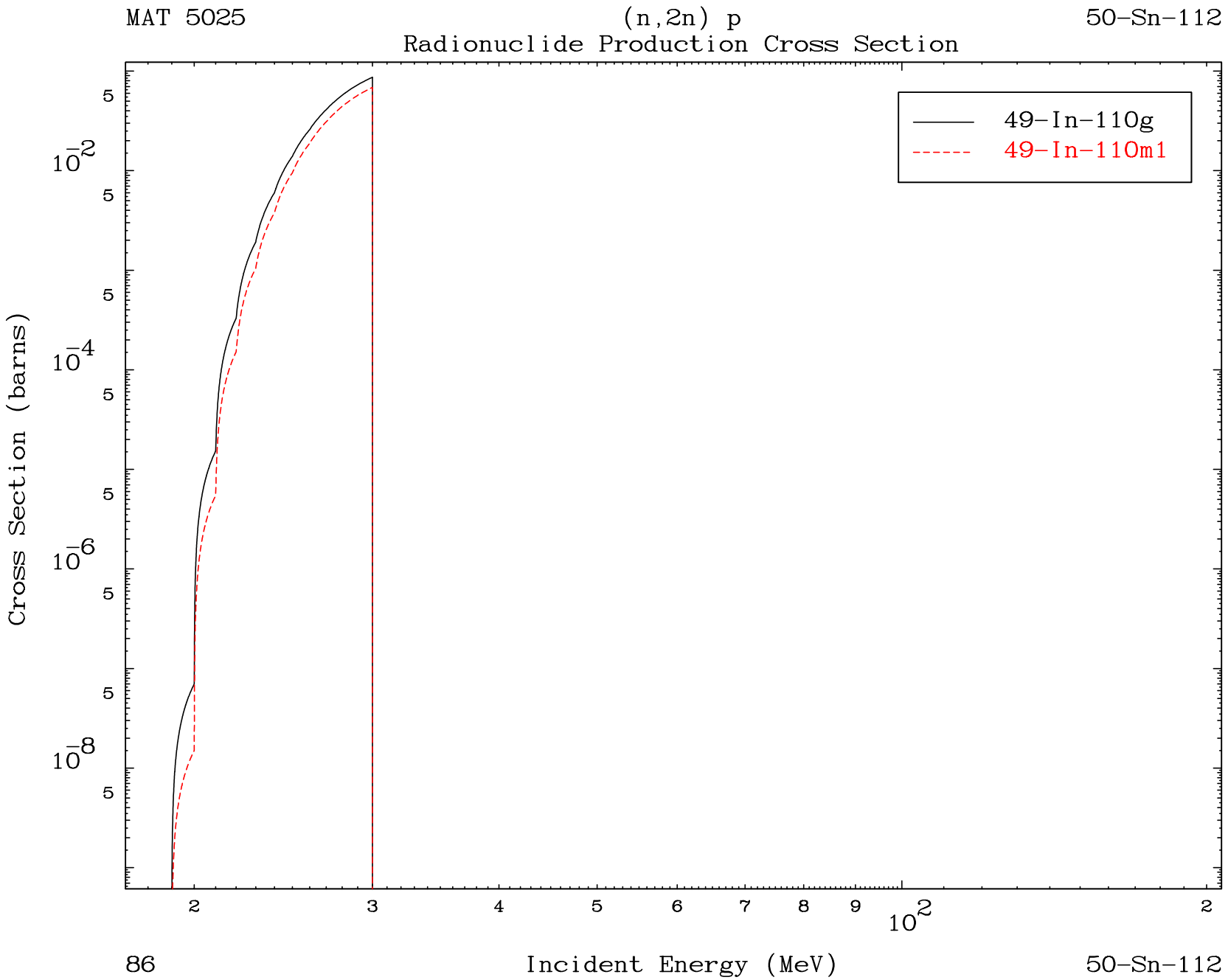

MAT 5025
MT= 67 (n,n') Level
Legendre Coefficients
50-Sn-112
X10^-7
8
6
4
2
0
Legendre (CM)
50
100
150
200
P19
P20
P21
P22
P23
P24
P25
P26
81
Incident Energy (MeV)
50-Sn-112

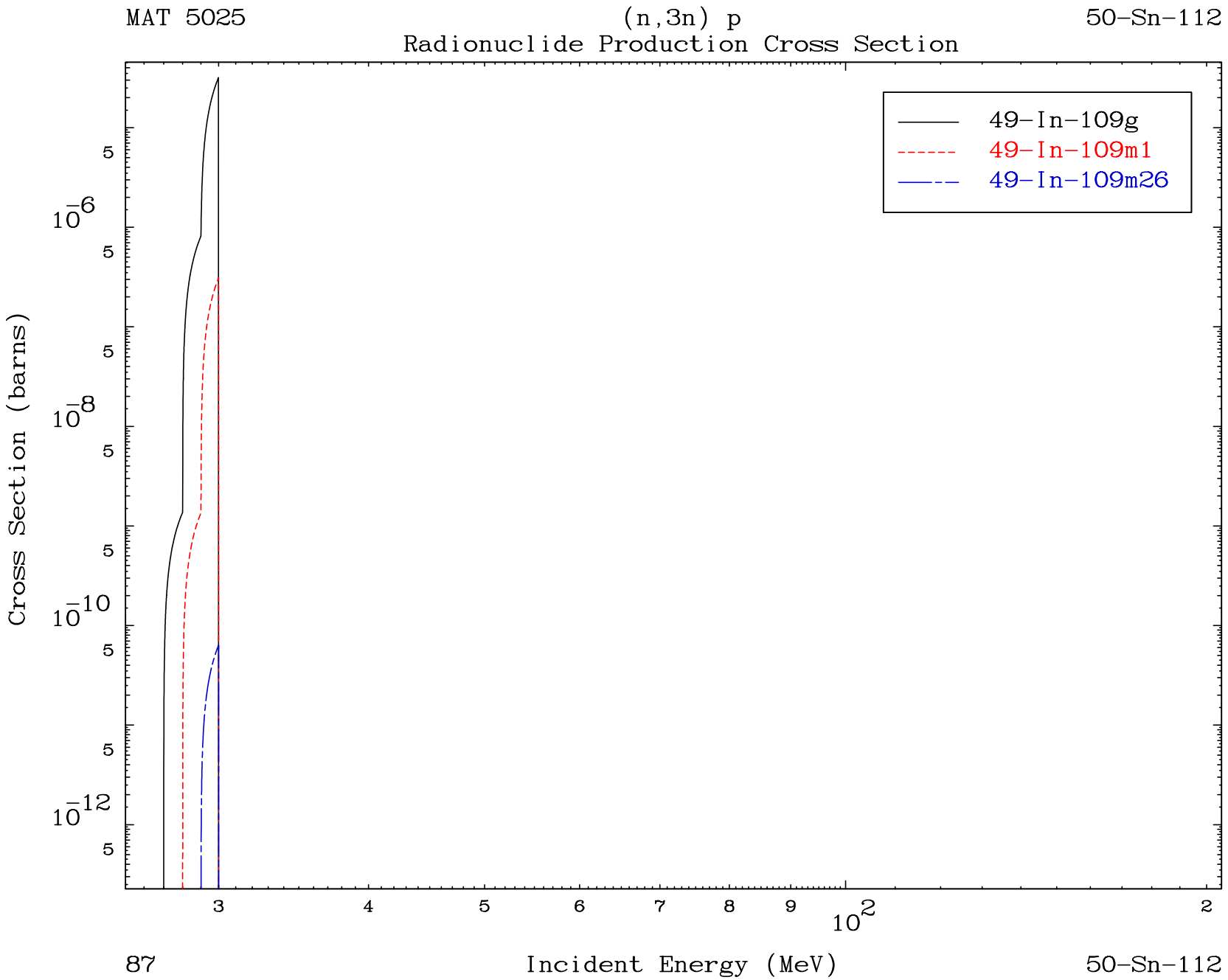

MAT 5025
(n,2n) d
50-Sn-112
Radionuclide Production Cross Section
49-In-109g
49-In-109m1
49-In-109m26
Cross Section (barns)
10-6
10-8
10-10
10-12
5
3
4
5
6
7
8
9
10^2
2
82
Incident Energy (MeV)
50-Sn-112

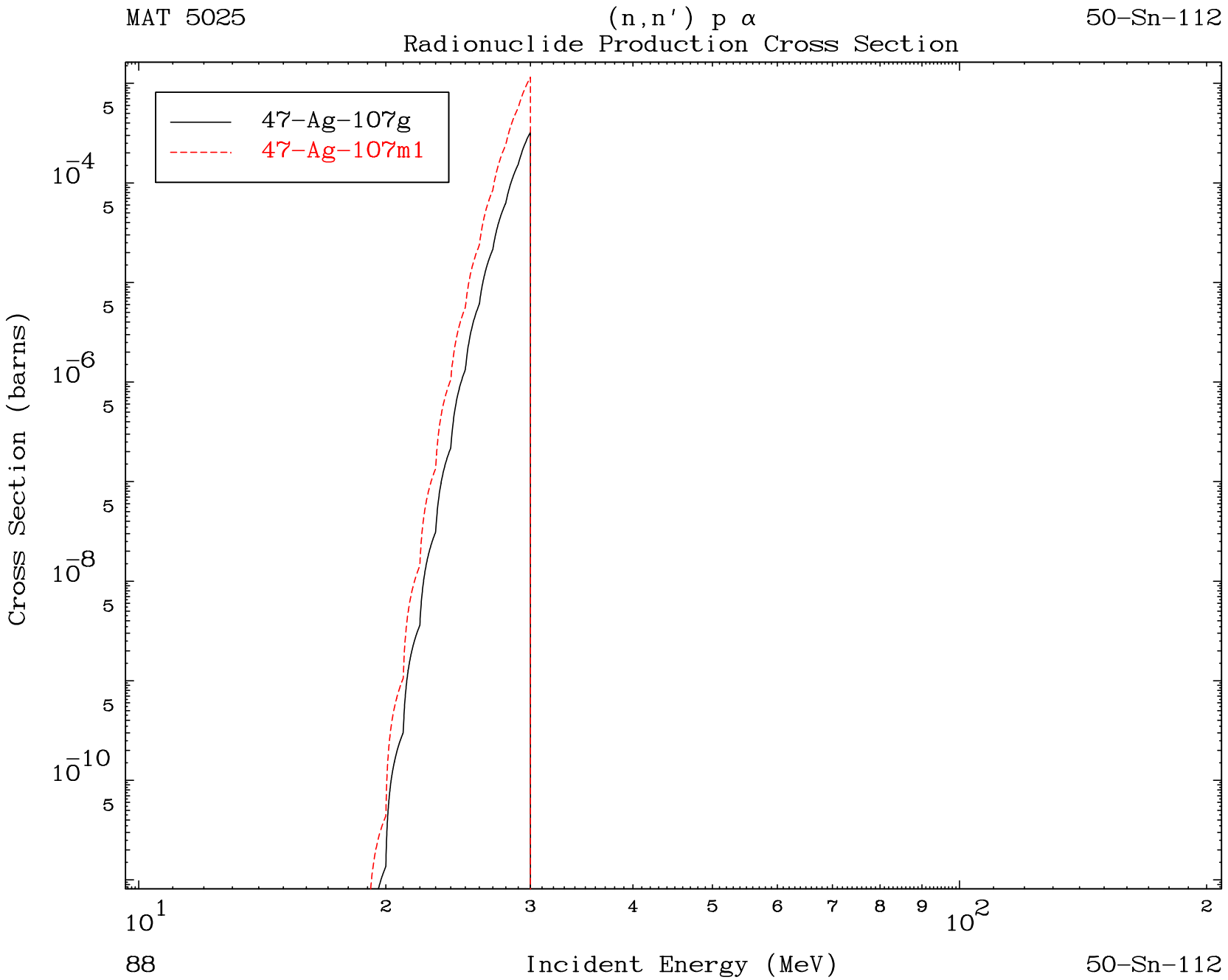

MAT 5025
(n,n') p
50-Sn-112
Radionuclide Production Cross Section
49-In-111g
49-In-111m1
Cross Section (barns)
Incident Energy (MeV)
83
50-Sn-112

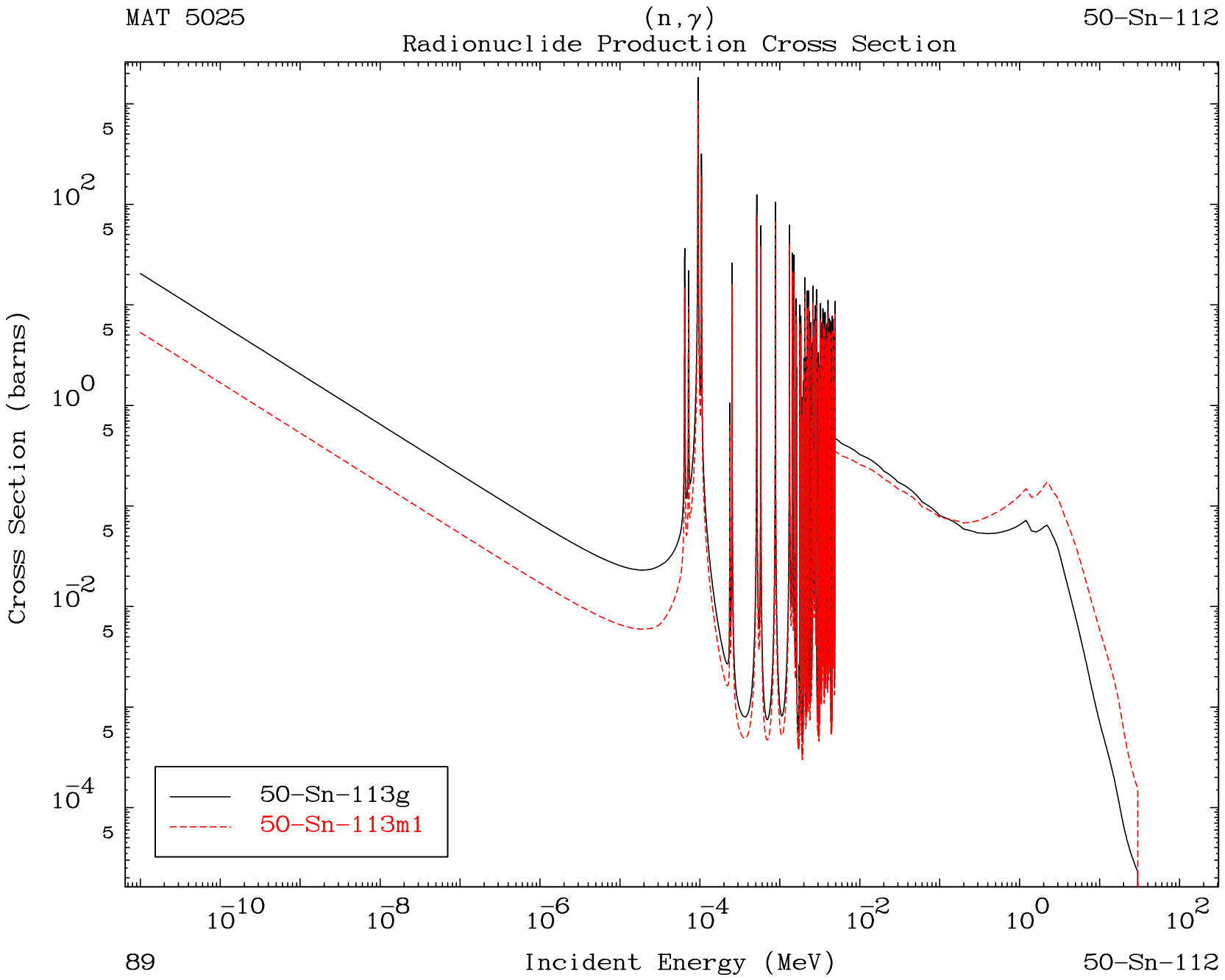

MAT 5025
(n,n') d
50-Sn-112
Radionuclide Production Cross Section
49-In-110g
49-In-110m1
Cross Section (barns)
Incident Energy (MeV)
84
50-Sn-112

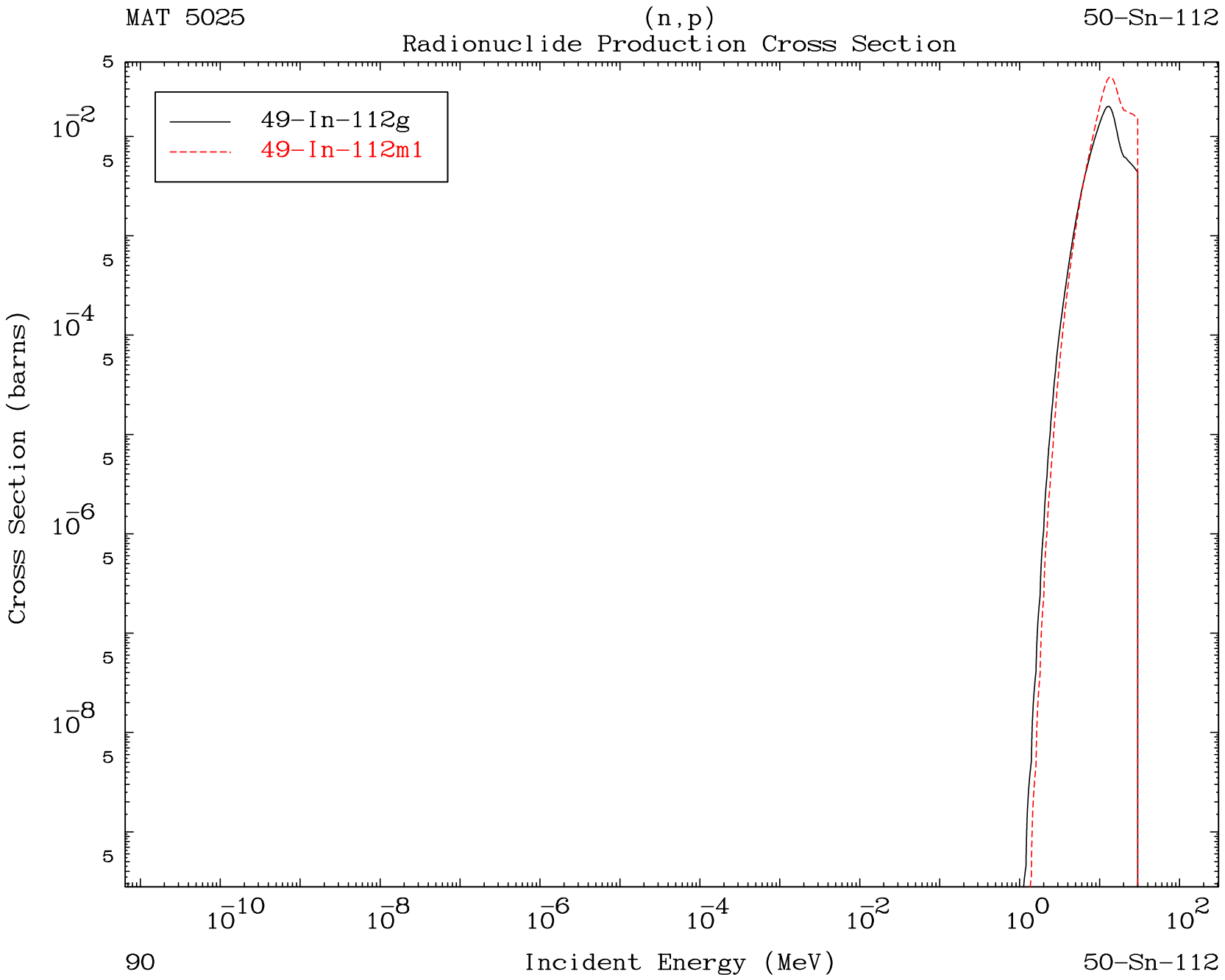

MAT 5025
(n,n') t
50-Sn-112
Radionuclide Production Cross Section
49-In-109g
49-In-109m1
49-In-109m26
Cross Section (barns)
10-4
10-6
10-8
10-10
2
3
4
5
6
7
8
9
10 2
Incident Energy (MeV)
85
50-Sn-112

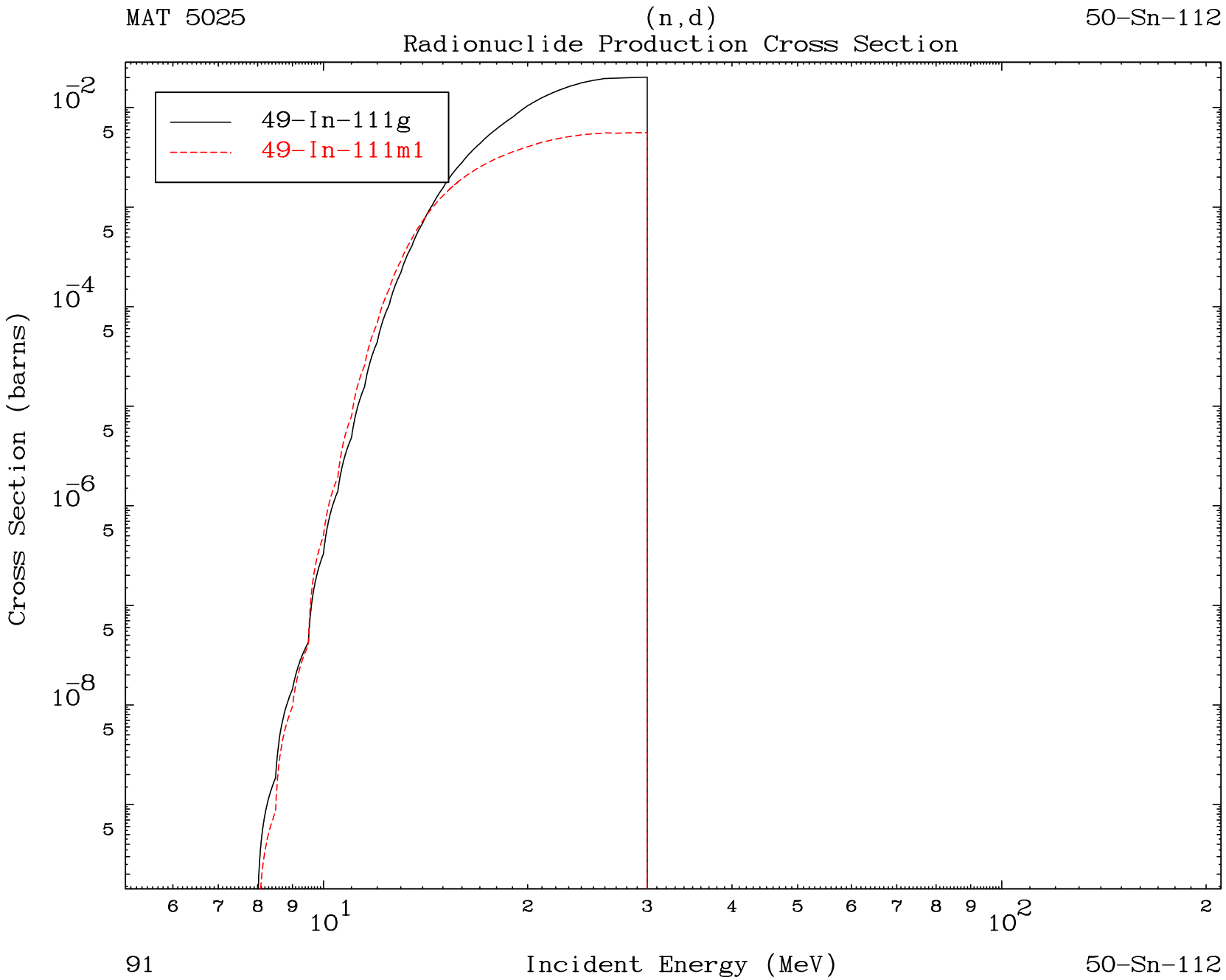

MAT 5025
(n,2n) p
50-Sn-112
Radionuclide Production Cross Section
49-In-110g
49-In-110m1
Cross Section (barns)
Incident Energy (MeV)
86
50-Sn-112

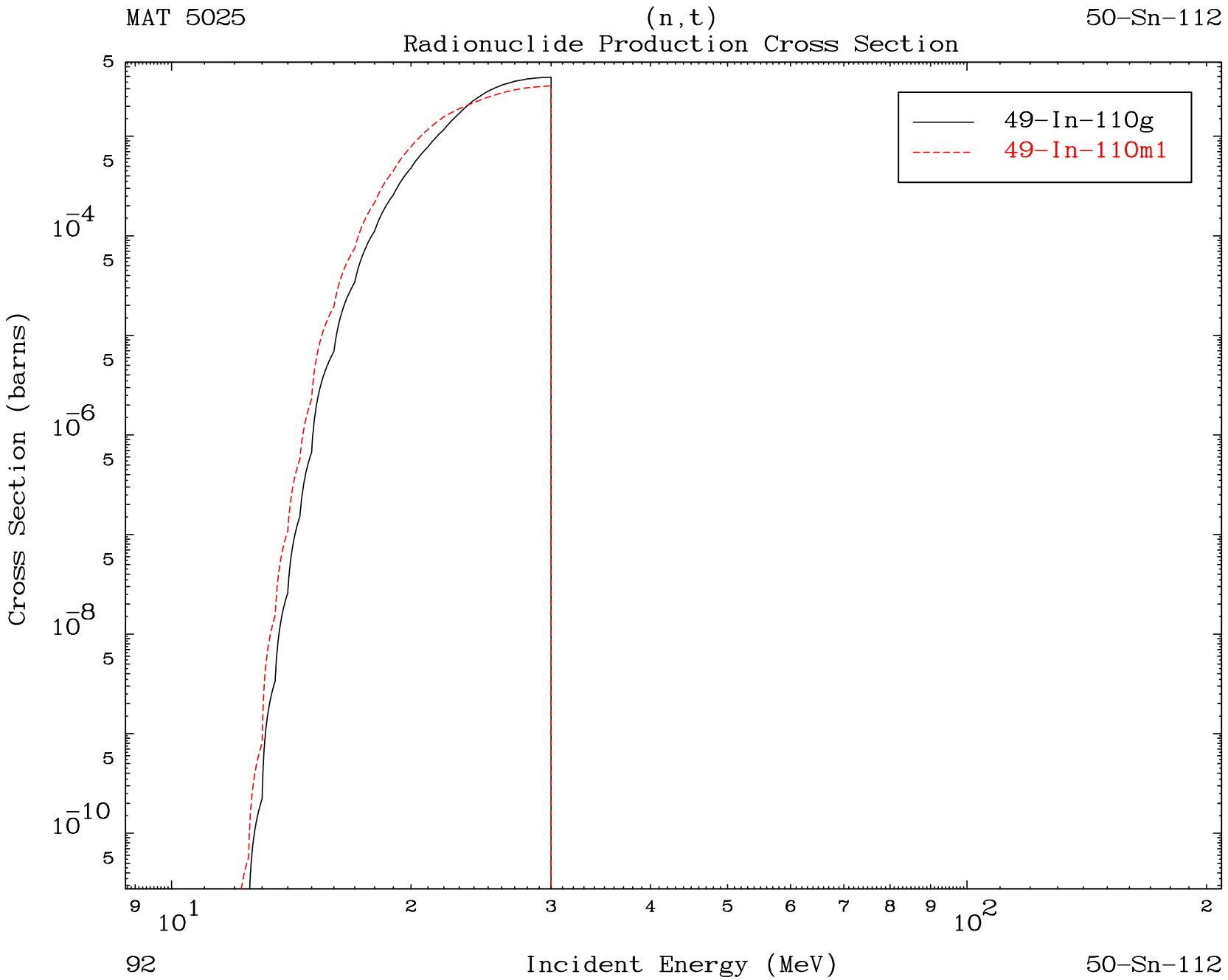

MAT 5025
(n,3n) p
50-Sn-112
Radionuclide Production Cross Section
49-In-109g
49-In-109m1
49-In-109m26
Cross Section (barns)
10-6
10-8
10-10
10-12
5
3
4
5
6
7
8
9
10^2
2
87
Incident Energy (MeV)
50-Sn-112

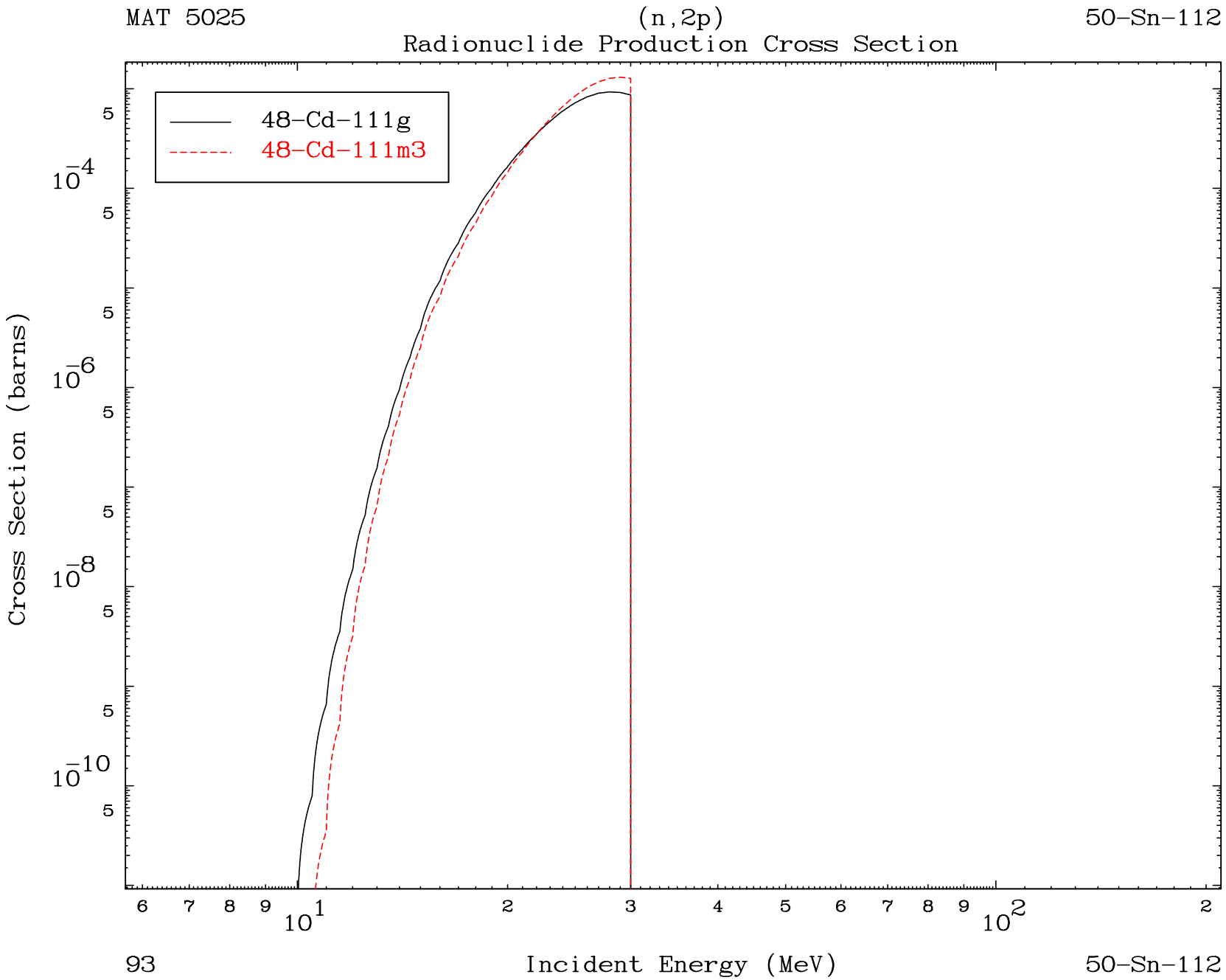

MAT 5025
(n,n') p α
50-Sn-112
Radionuclide Production Cross Section
47-Ag-107g
47-Ag-107m1
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^1
10^2
Incident Energy (MeV)
88
50-Sn-112

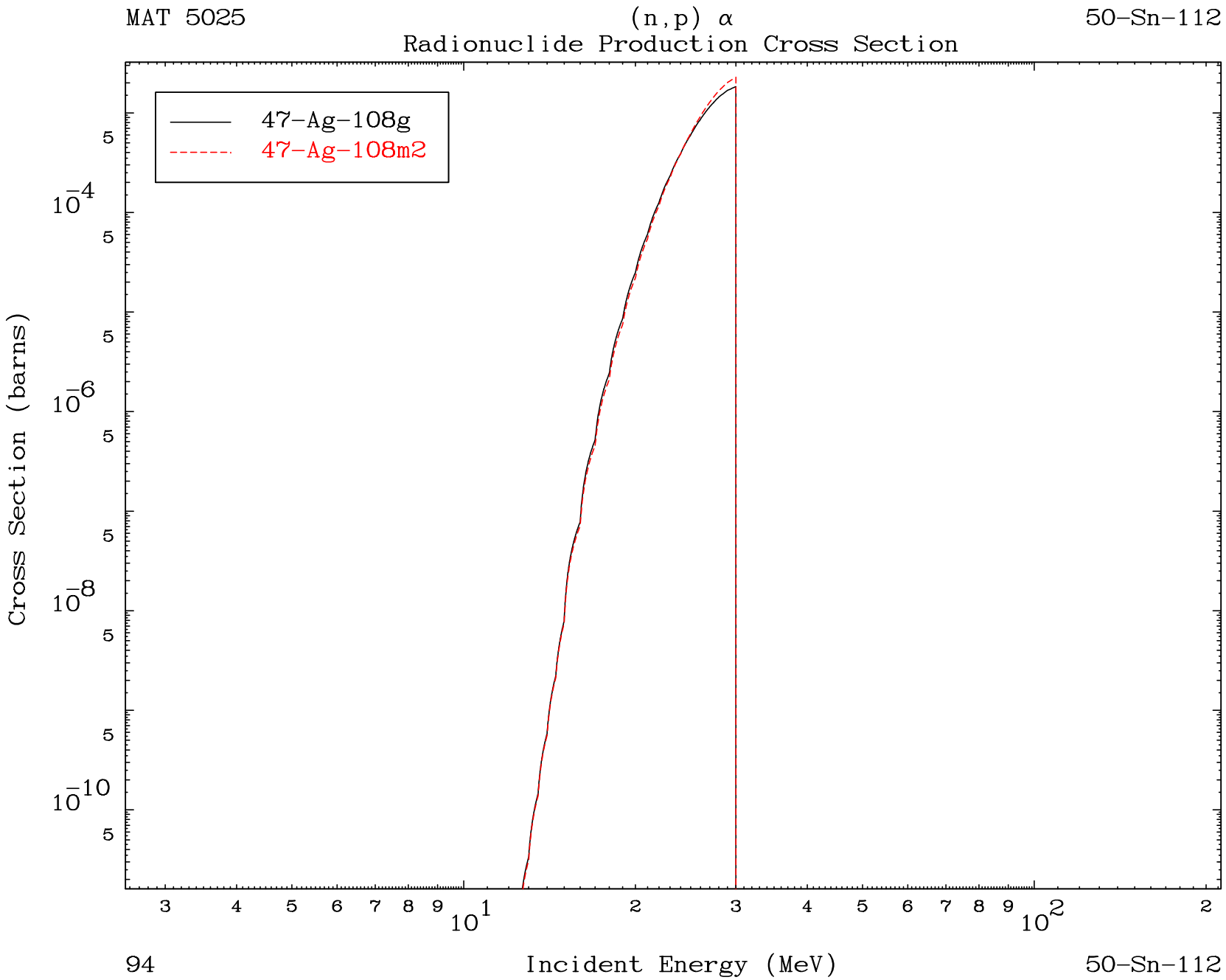

MAT 5025
(n,γ)
50-Sn-112
Radionuclide Production Cross Section
Cross Section (barns)
10^2
10^0
10^-2
10^-4
5
Incident Energy (MeV)
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
50-Sn-113g
50-Sn-113m1
89
50-Sn-112

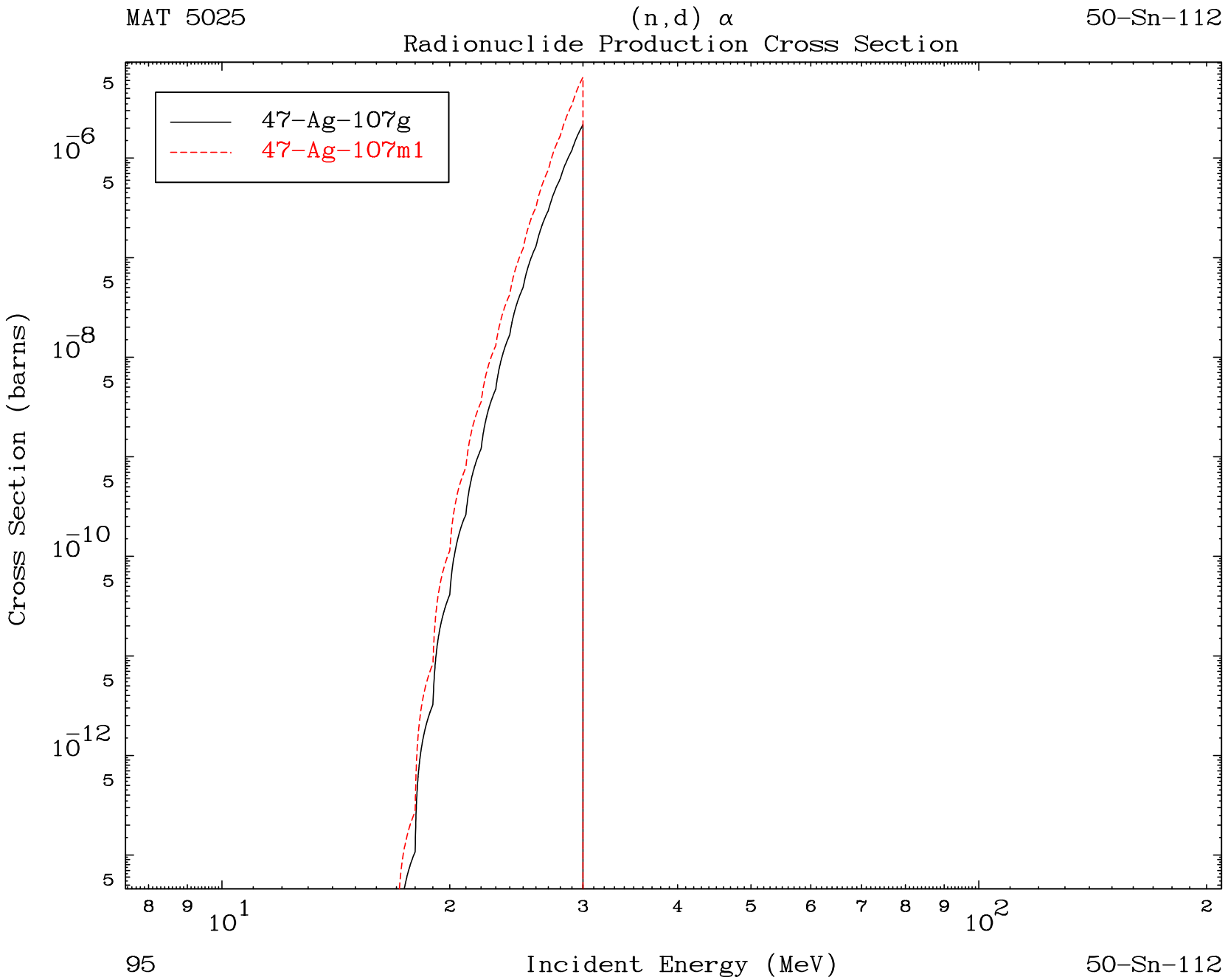

MAT 5025
(n,p)
50-Sn-112
Radionuclide Production Cross Section
49-In-112g
49-In-112m1
Cross Section (barns)
Incident Energy (MeV)
90
50-Sn-112


MAT 5025
(n,d)
50-Sn-112
Radionuclide Production Cross Section
49-In-111g
49-In-111m1
Cross Section (barns)
Incident Energy (MeV)
91
50-Sn-112


MAT 5025
(n,t)
50-Sn-112
Radionuclide Production Cross Section
49-In-110g
49-In-110m1
Cross Section (barns)
Incident Energy (MeV)
92
50-Sn-112


MAT 5025
(n,2p)
50-Sn-112
Radionuclide Production Cross Section
48-Cd-111g
48-Cd-111m3
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^1
10^2
Incident Energy (MeV)
93
50-Sn-112


MAT 5025
(n,p) α
50-Sn-112
Radionuclide Production Cross Section
47-Ag-108g
47-Ag-108m2
Cross Section (barns)
10-4
10-6
10-8
10-10
3 4 5 6 7 8 9 10 1 2 3 4 5 6 7 8 9 10 2 2
94
Incident Energy (MeV)
50-Sn-112


MAT 5025
(n,d) α
50-Sn-112
Radionuclide Production Cross Section
47-Ag-107g
47-Ag-107m1
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
95
Incident Energy (MeV)
50-Sn-112