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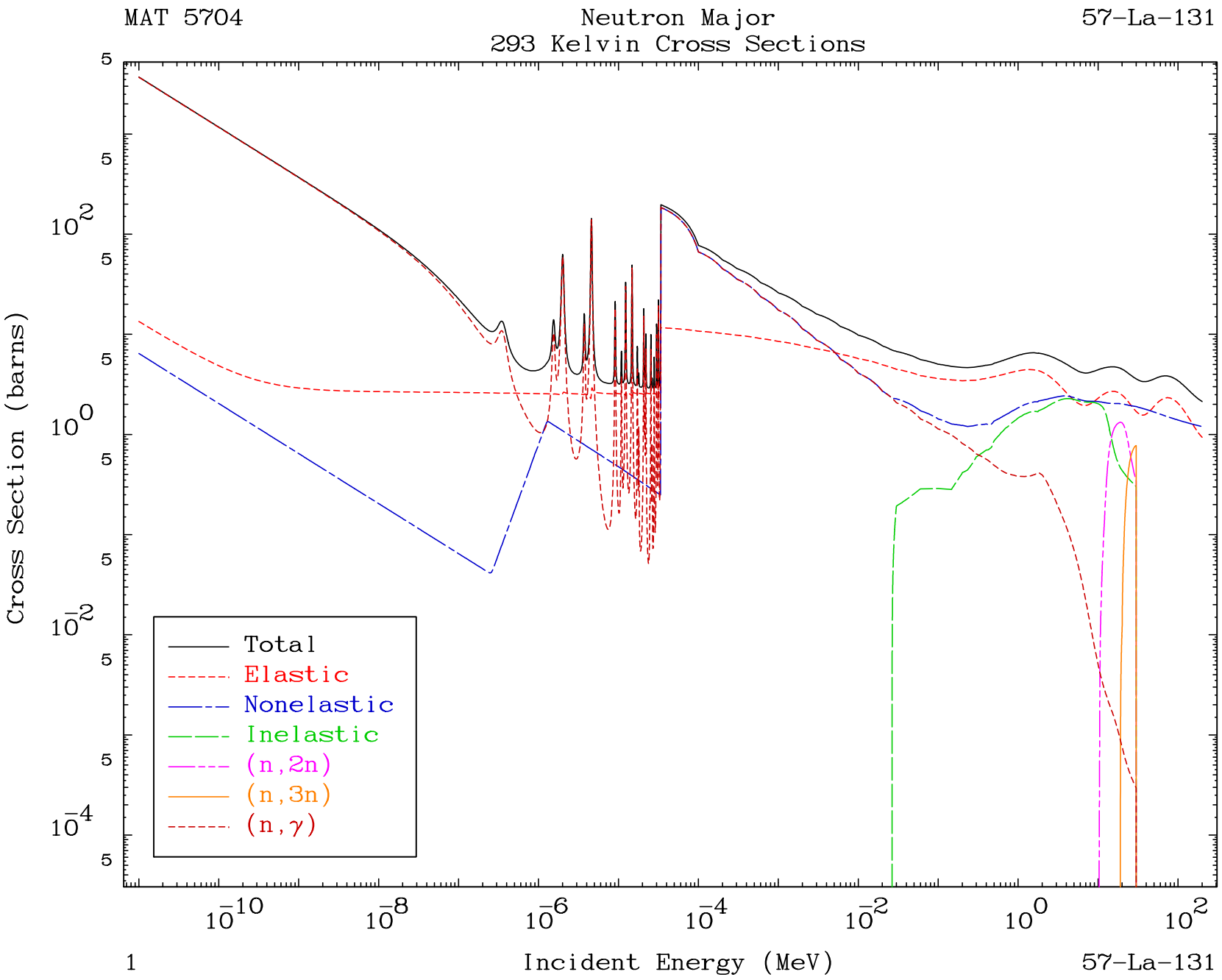
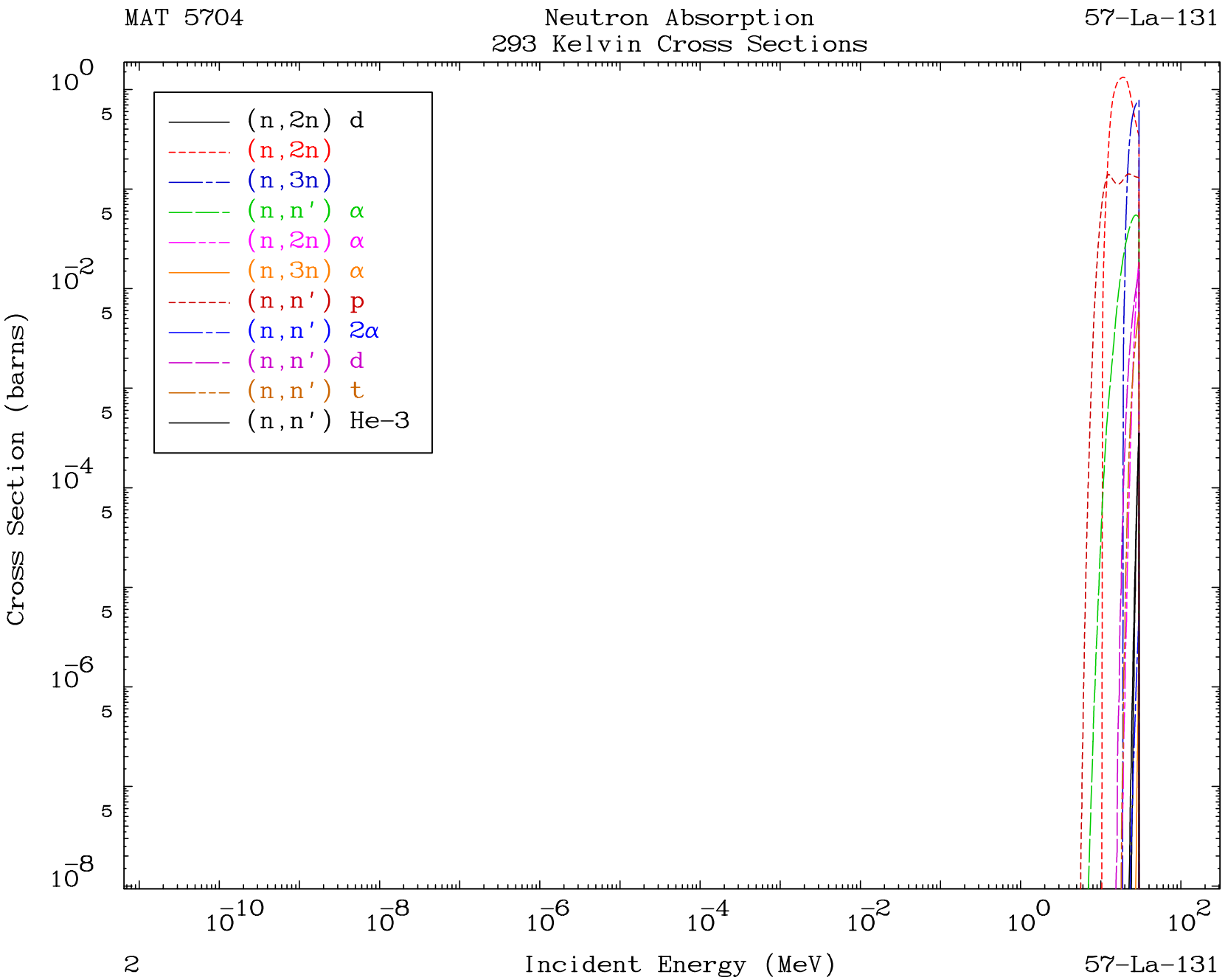
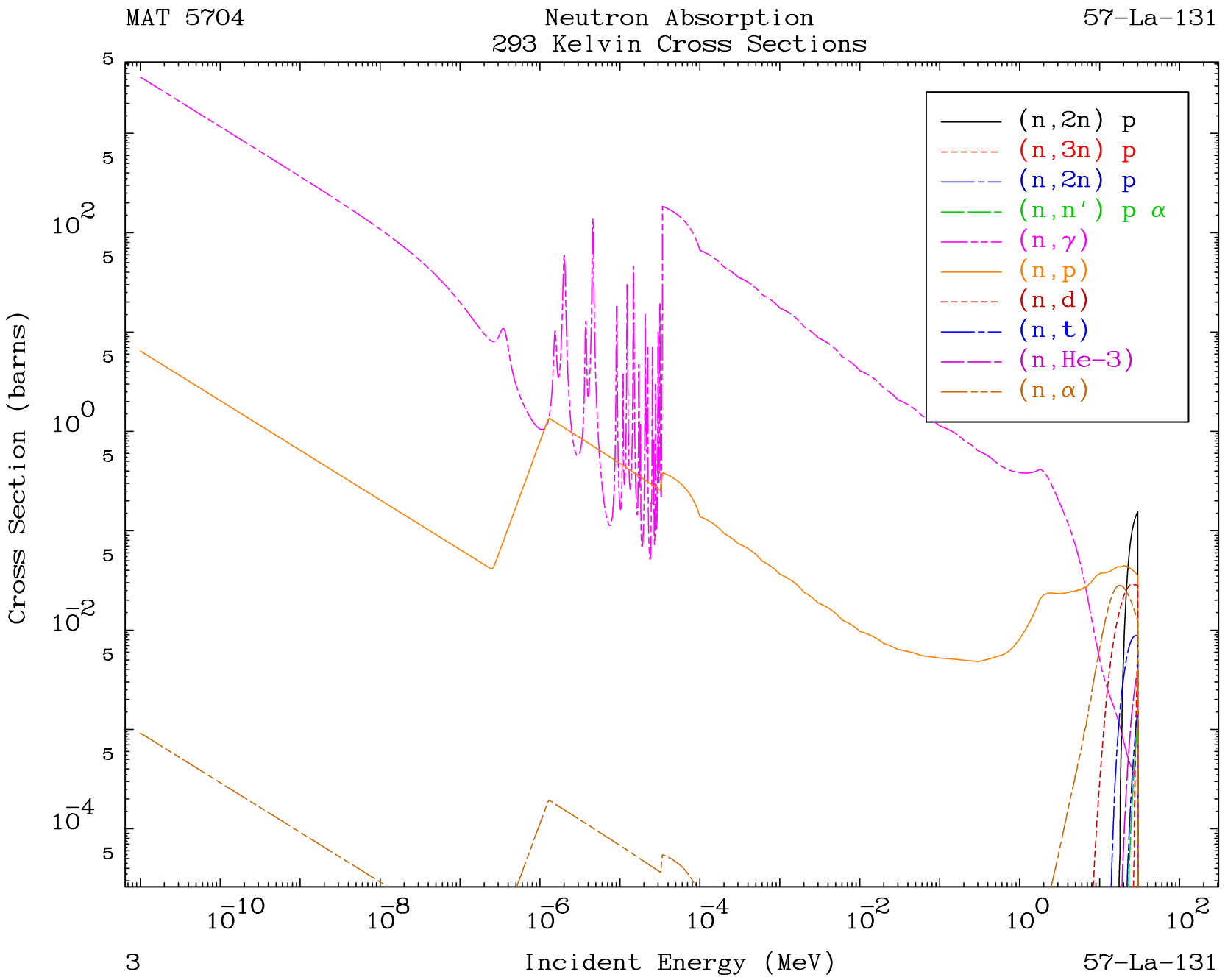
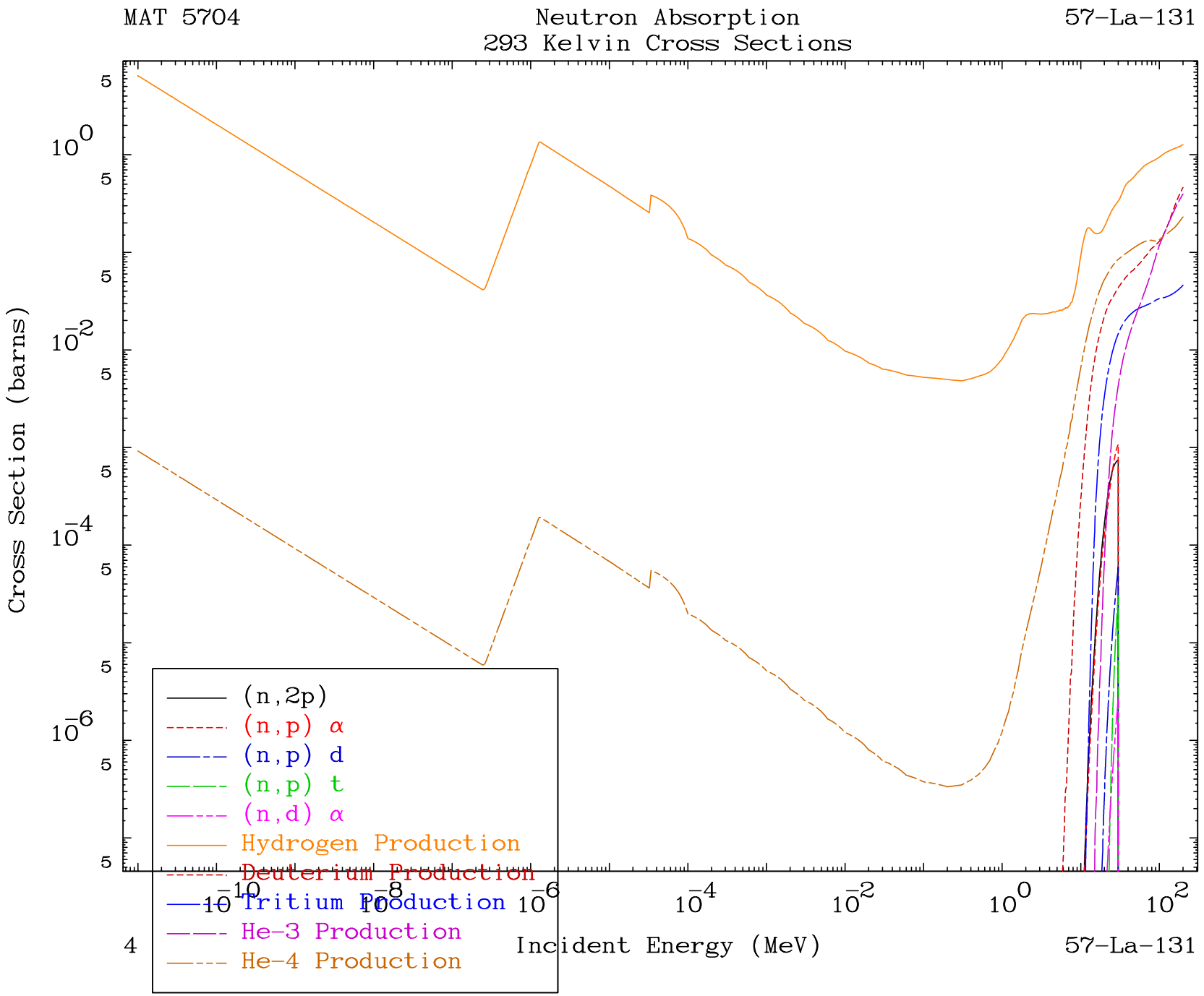
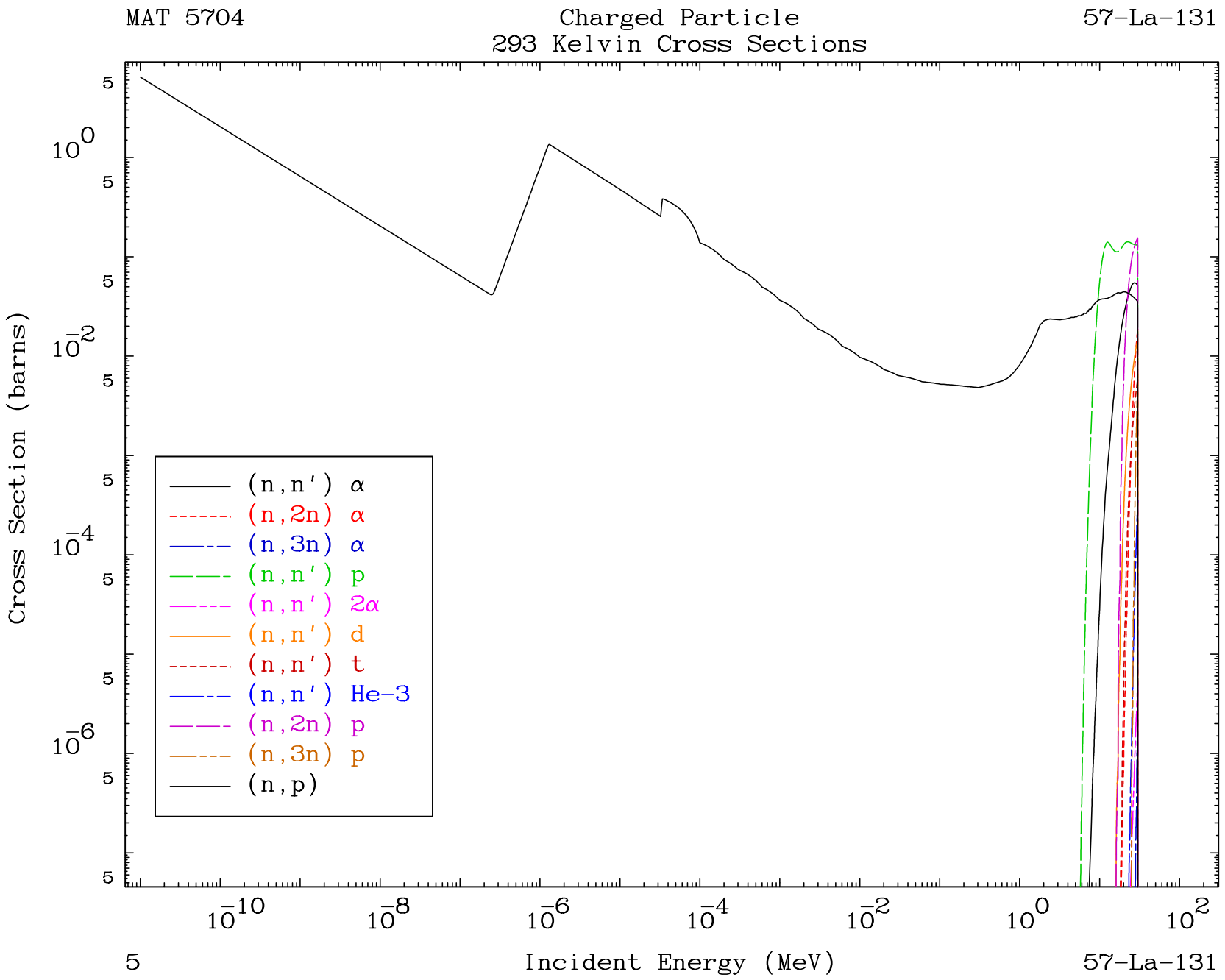
Press Mouse Button to Start

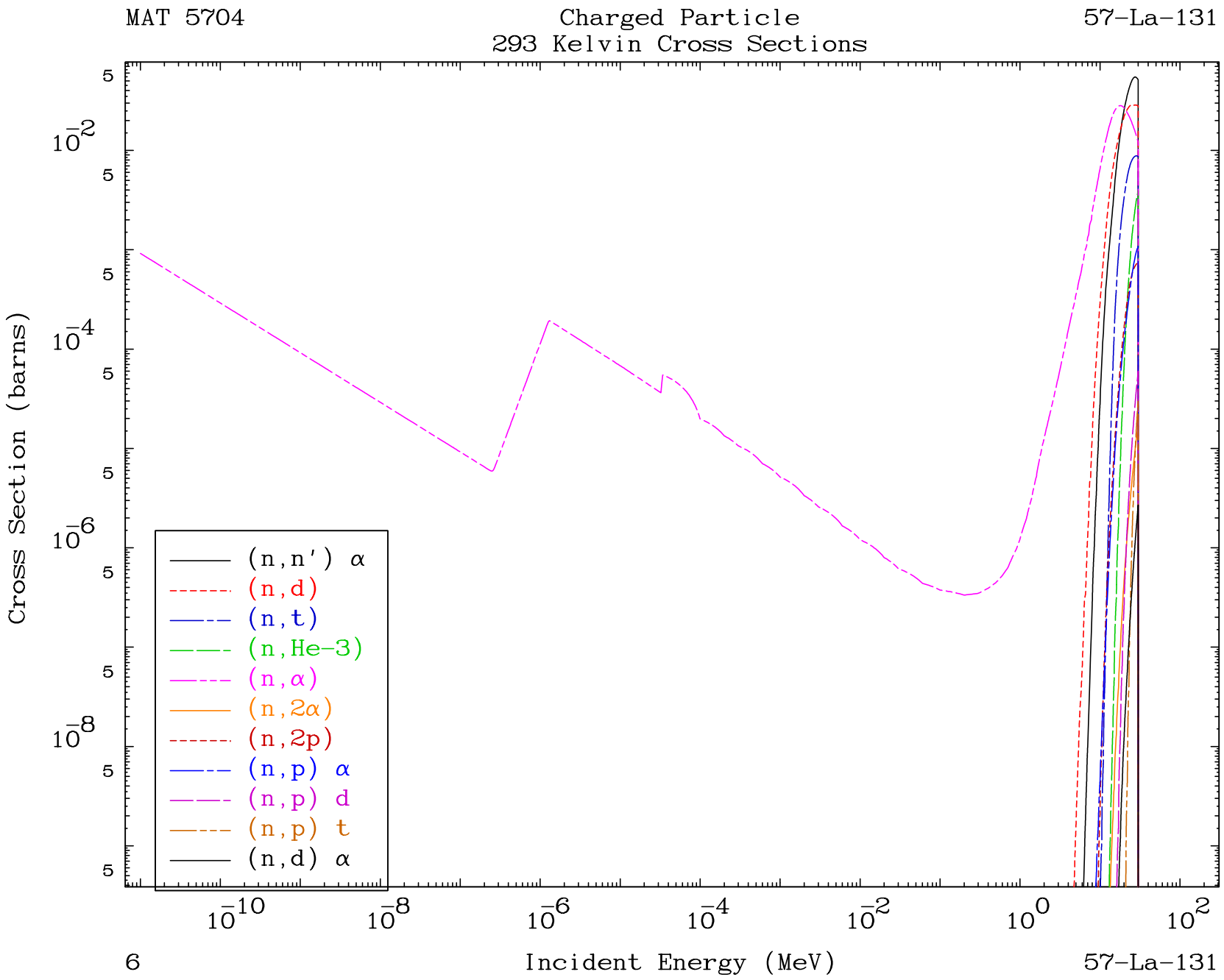

MAT 5704
Neutron Major
293 Kelvin Cross Sections
57-La-131
Cross Section (barns)
Incident Energy (MeV)
Total
Elastic
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)
1
57-La-131

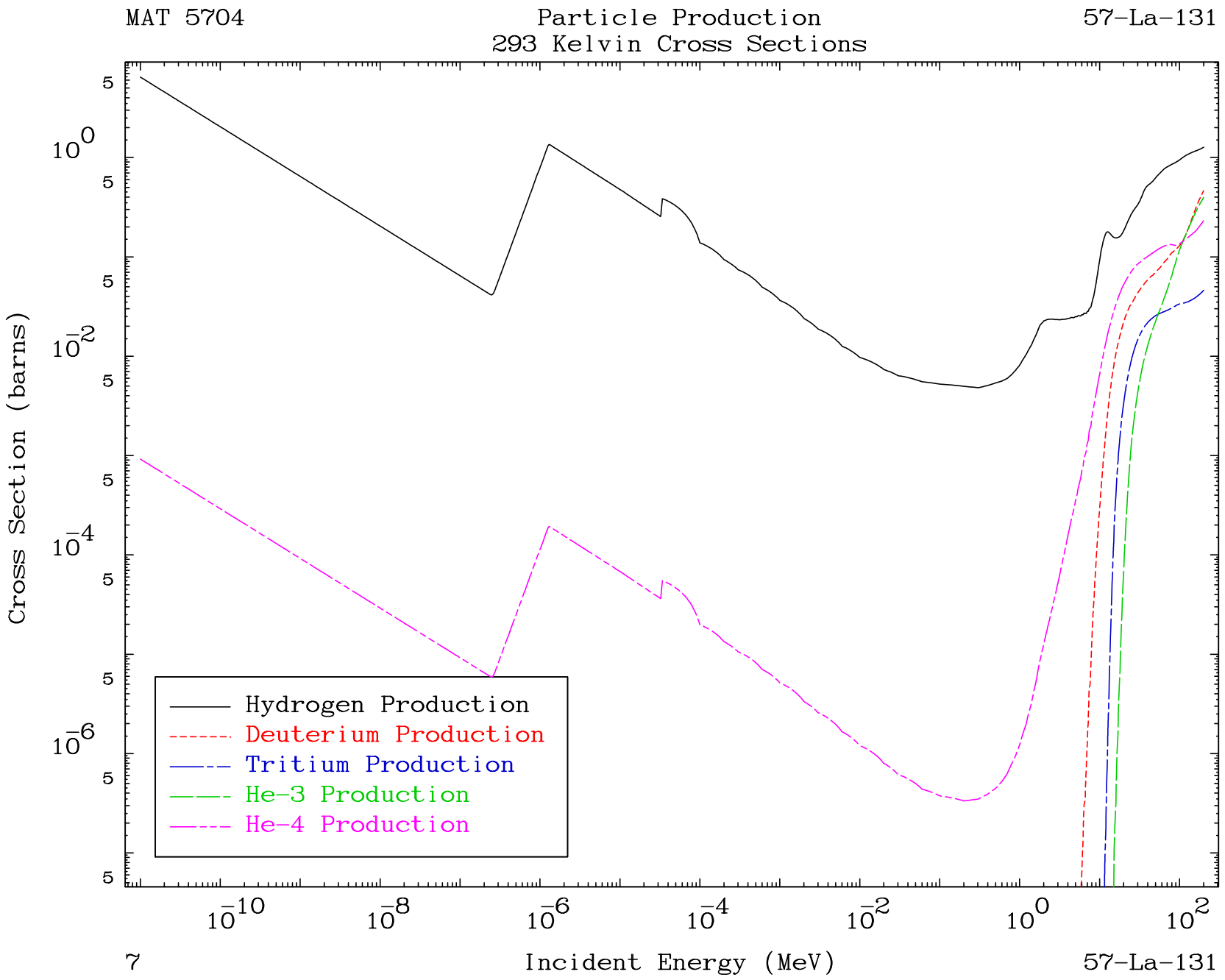

MAT 5704
Neutron Absorption
293 Kelvin Cross Sections
57-La-131
(n,2n) d
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
(n,n') He-3
Cross Section (barns)
Incident Energy (MeV)
2
57-La-131

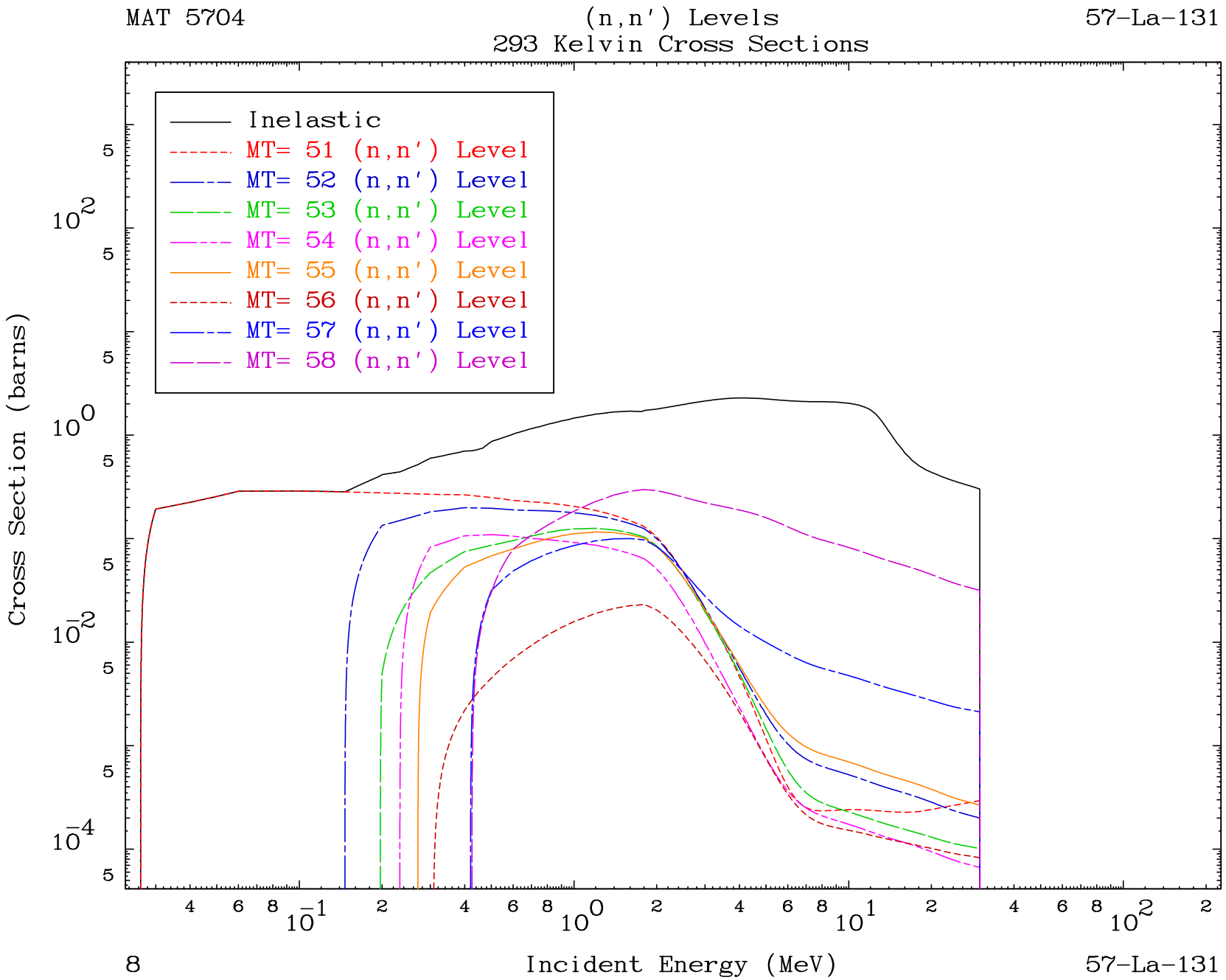

MAT 5704
Neutron Absorption
293 Kelvin Cross Sections
57-La-131
(n,2n) p
(n,3n) p
(n,2n) p
(n,n') p α
(n,γ)
(n,p)
(n,d)
(n,t)
(n,He-3)
(n,α)
Cross Section (barns)
Incident Energy (MeV)
3
57-La-131

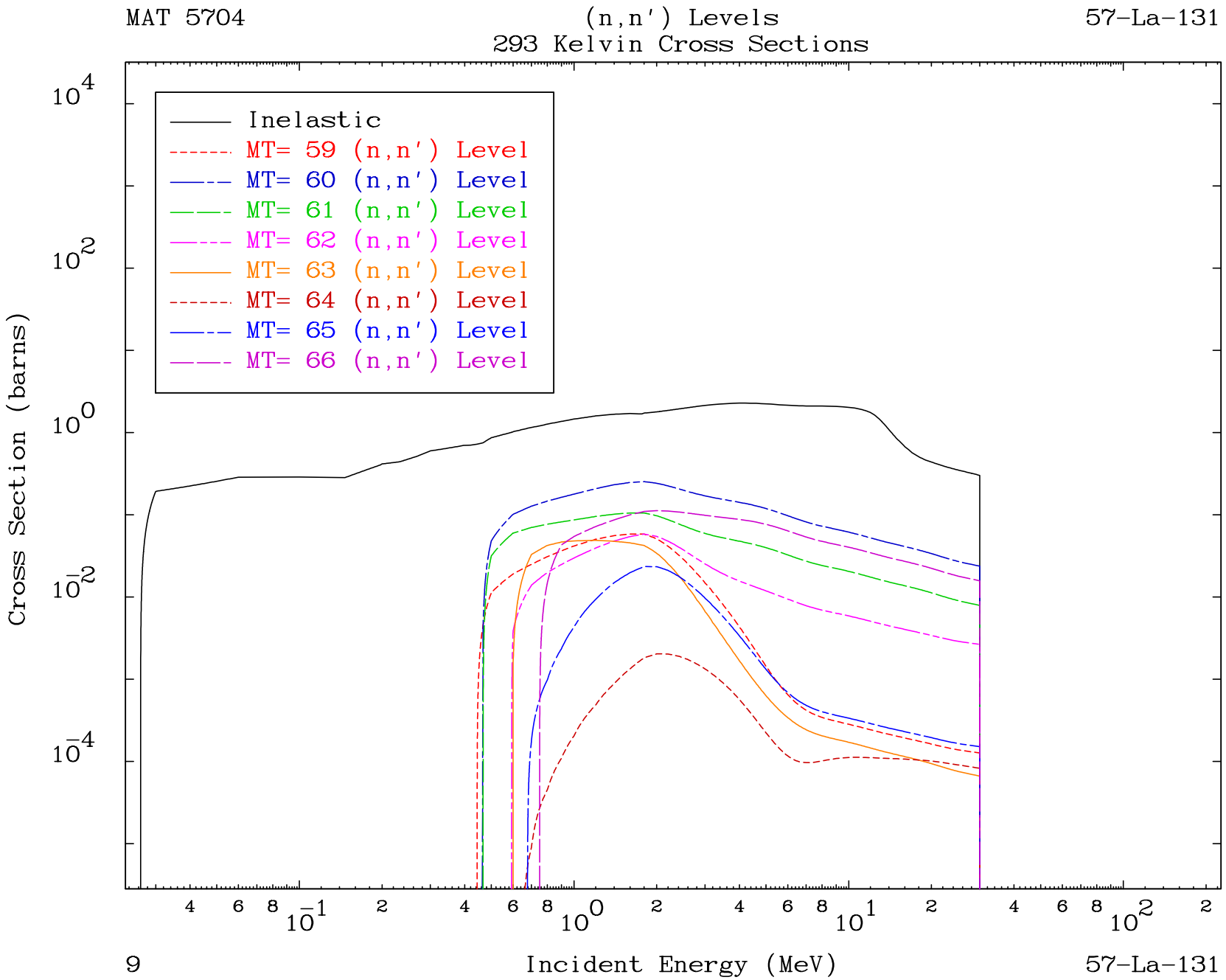

MAT 5704
Neutron Absorption
293 Kelvin Cross Sections
57-La-131
Cross Section (barns)
Incident Energy (MeV)
57-La-131
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production

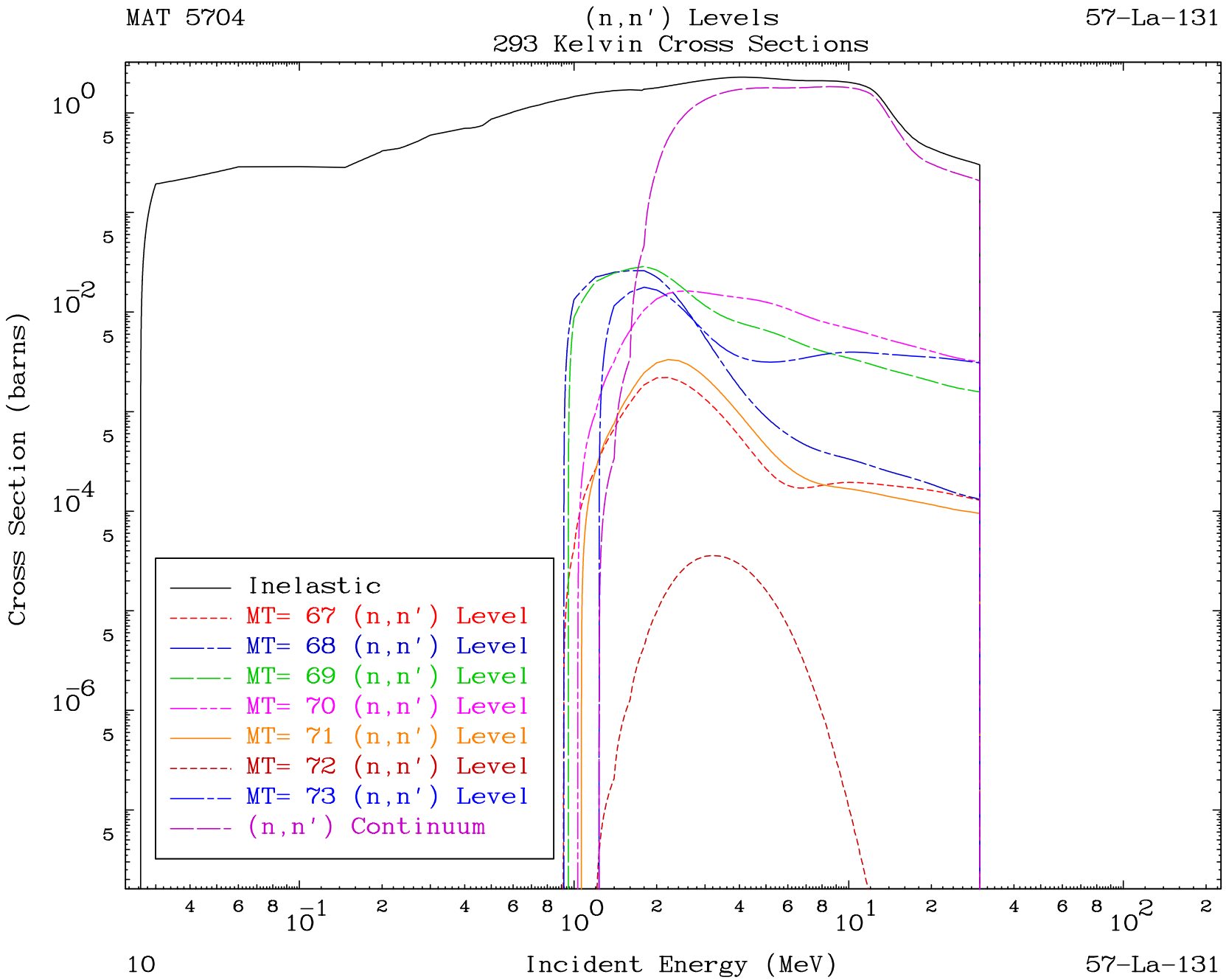

MAT 5704
Charged Particle
293 Kelvin Cross Sections
57-La-131
Cross Section (barns)
Incident Energy (MeV)
57-La-131
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
(n,3n) p
(n,p)

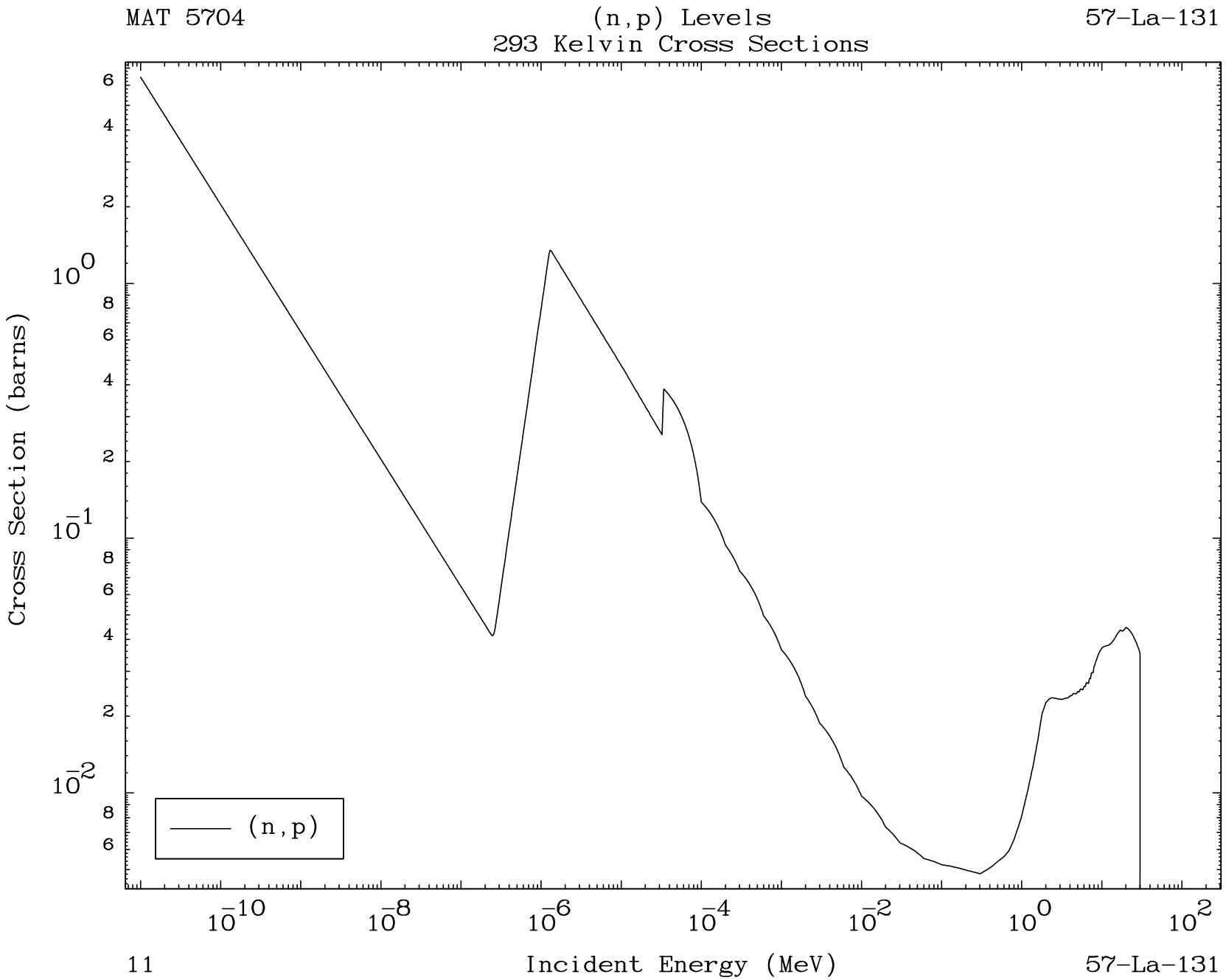

MAT 5704
Charged Particle
293 Kelvin Cross Sections
57-La-131
Cross Section (barns)
Incident Energy (MeV)
(n,n') α
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
6
57-La-131


MAT 5704
Particle Production
293 Kelvin Cross Sections
57-La-131
Cross Section (barns)
Incident Energy (MeV)
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production
7
57-La-131


MAT 5704
(n,n') Levels
57-La-131
293 Kelvin Cross Sections
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)
8
57-La-131


MAT 5704
(n,n') Levels
57-La-131
293 Kelvin Cross Sections
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
MT= 65 (n,n') Level
MT= 66 (n,n') Level
Cross Section (barns)
Incident Energy (MeV)
9
57-La-131


MAT 5704
(n,n') Levels
293 Kelvin Cross Sections
57-La-131
Cross Section (barns)
Incident Energy (MeV)
Inelastic
MT= 67 (n,n') Level
MT= 68 (n,n') Level
MT= 69 (n,n') Level
MT= 70 (n,n') Level
MT= 71 (n,n') Level
MT= 72 (n,n') Level
MT= 73 (n,n') Level
(n,n') Continuum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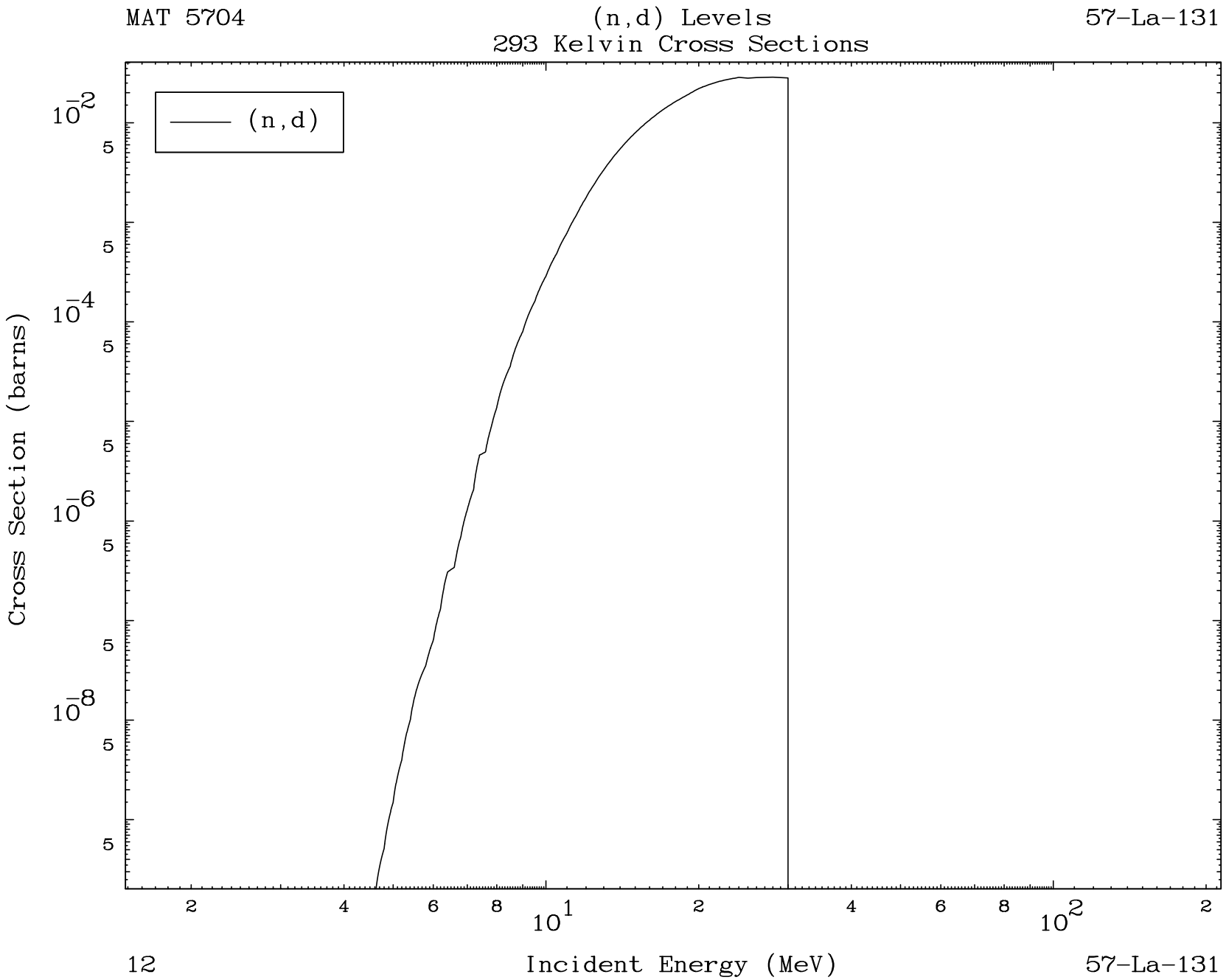
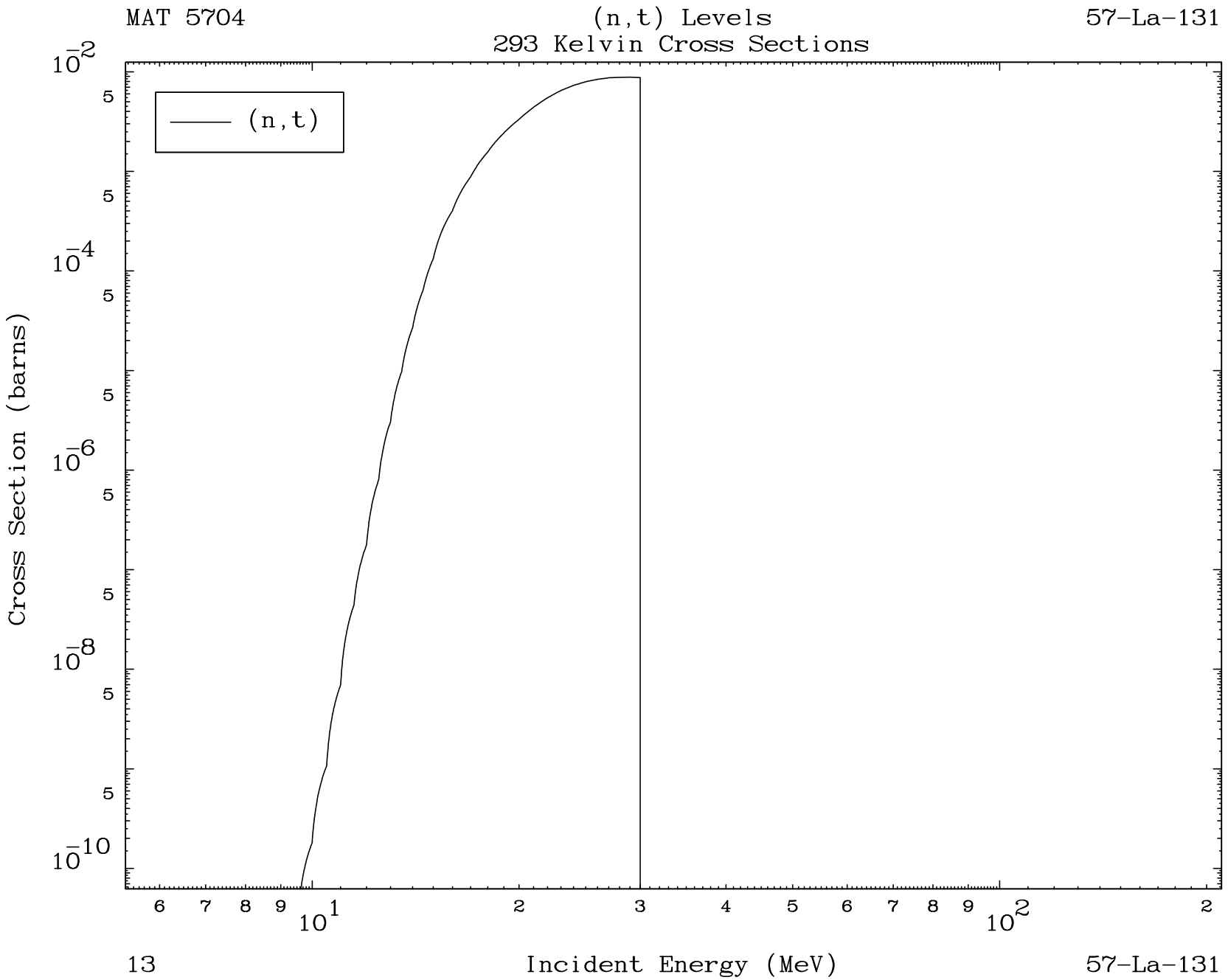
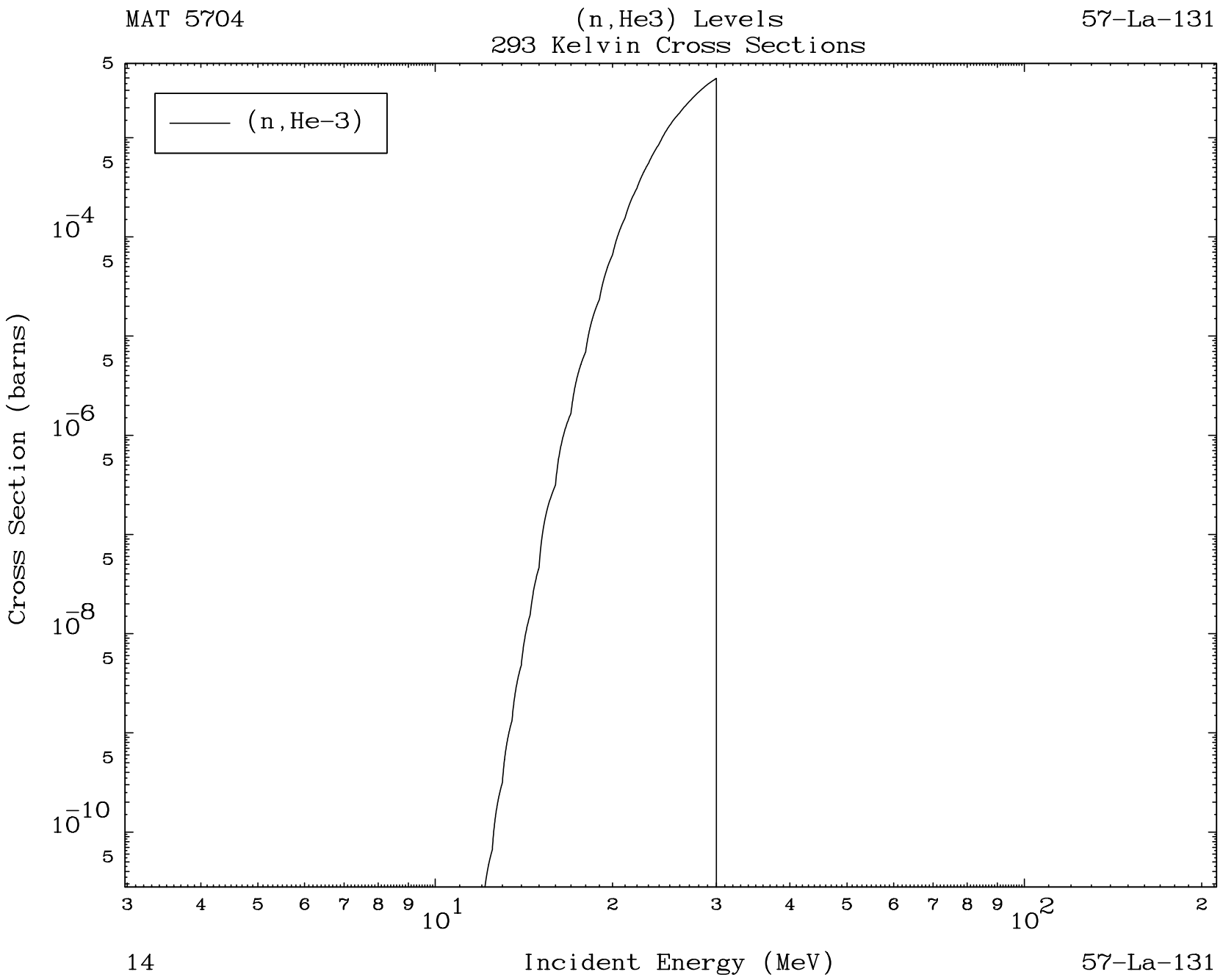
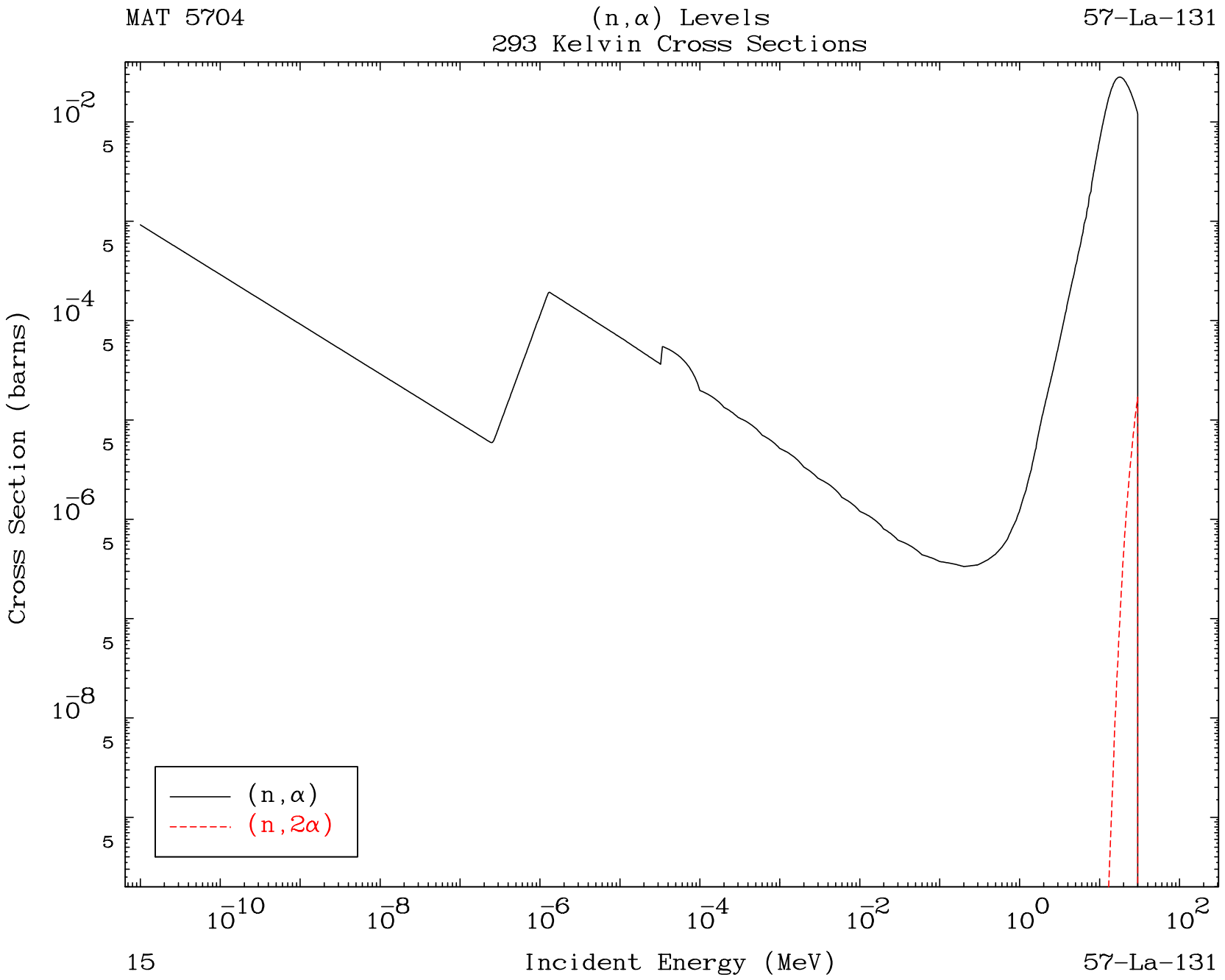
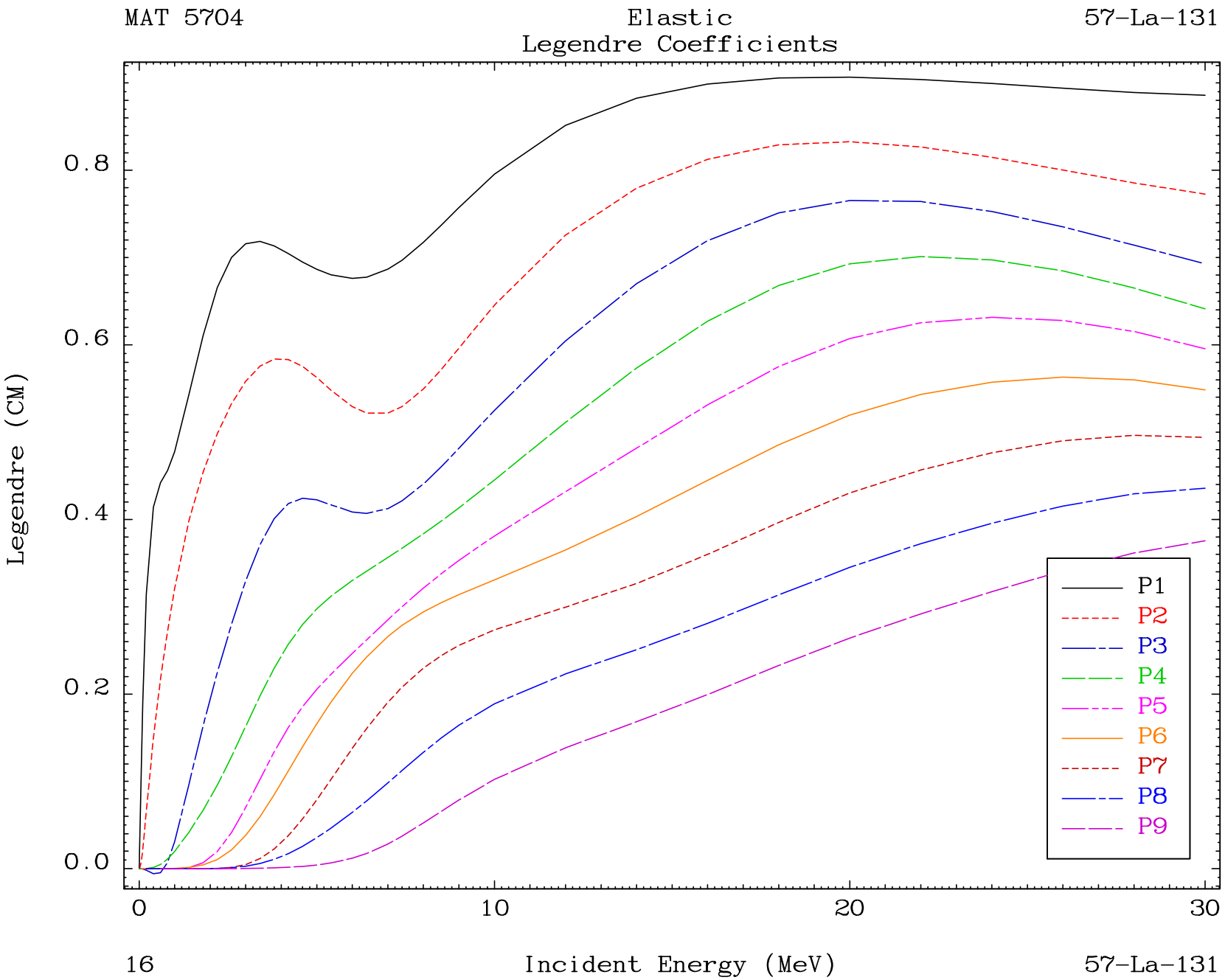
(n,p) Levels
57-La-131
293 Kelvin Cross Sections
Cross Section (barns)
(n,p)
11
Incident Energy (MeV)
57-La-131

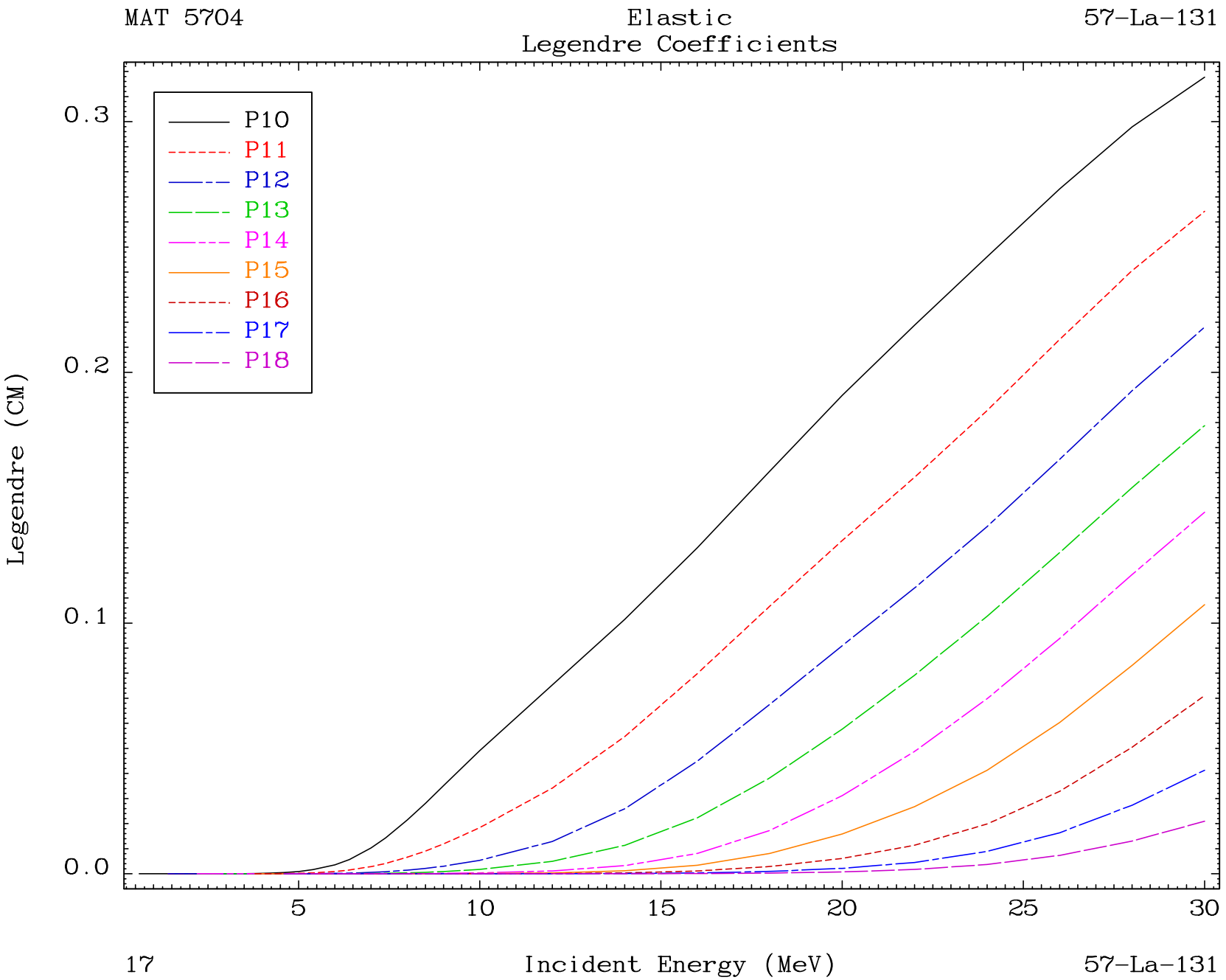

MAT 5704
(n,d) Levels
57-La-131
293 Kelvin Cross Sections
(n,d)
Cross Section (barns)
10^-2
10^-4
10^-6
10^-8
2
4
6
8
10^1
2
4
6
8
10^2
2
12
Incident Energy (MeV)
57-La-131

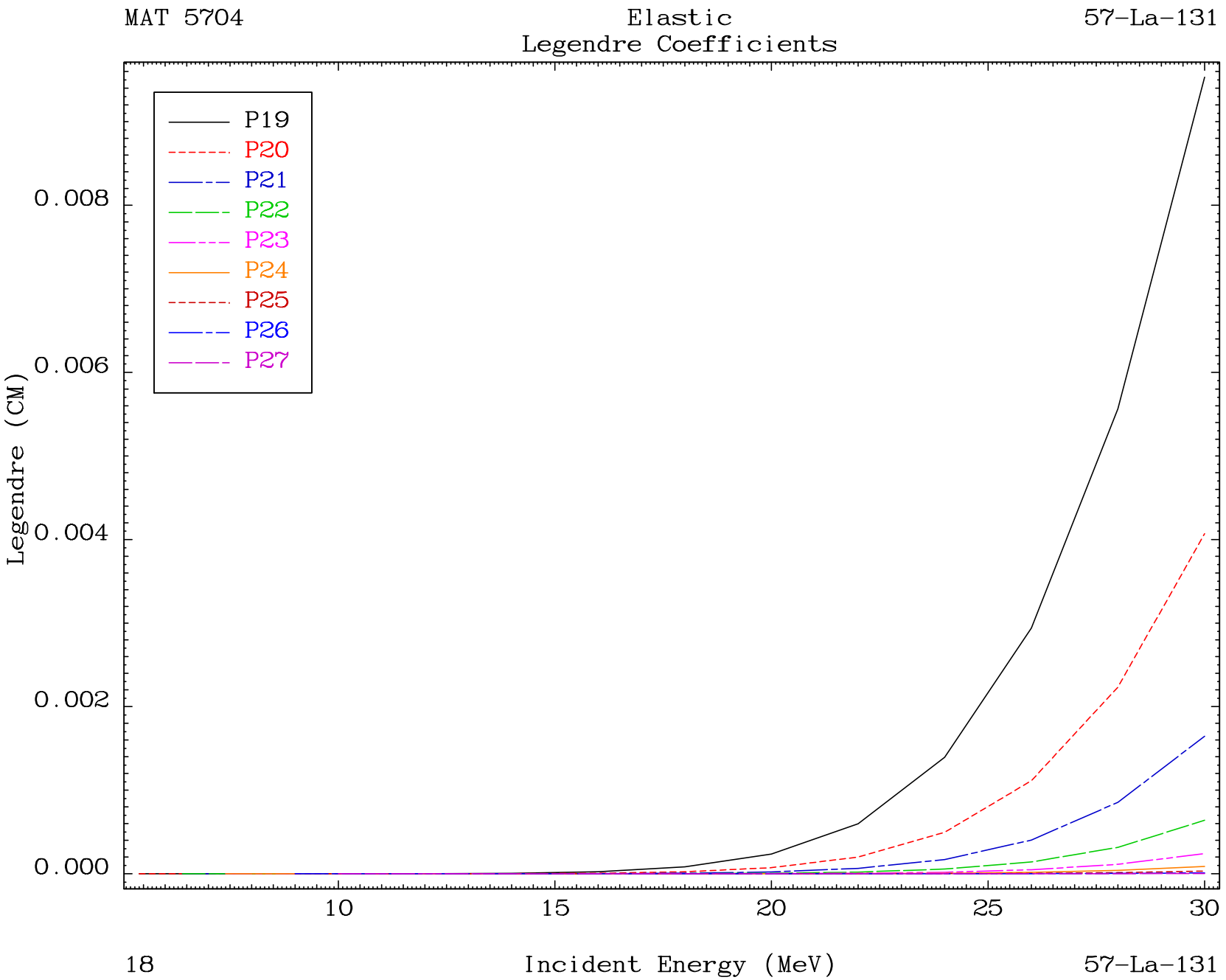

MAT 5704
(n,t) Levels
57-La-131
293 Kelvin Cross Sections
(n,t)
Cross Section (barns)
Incident Energy (MeV)
13
57-La-131

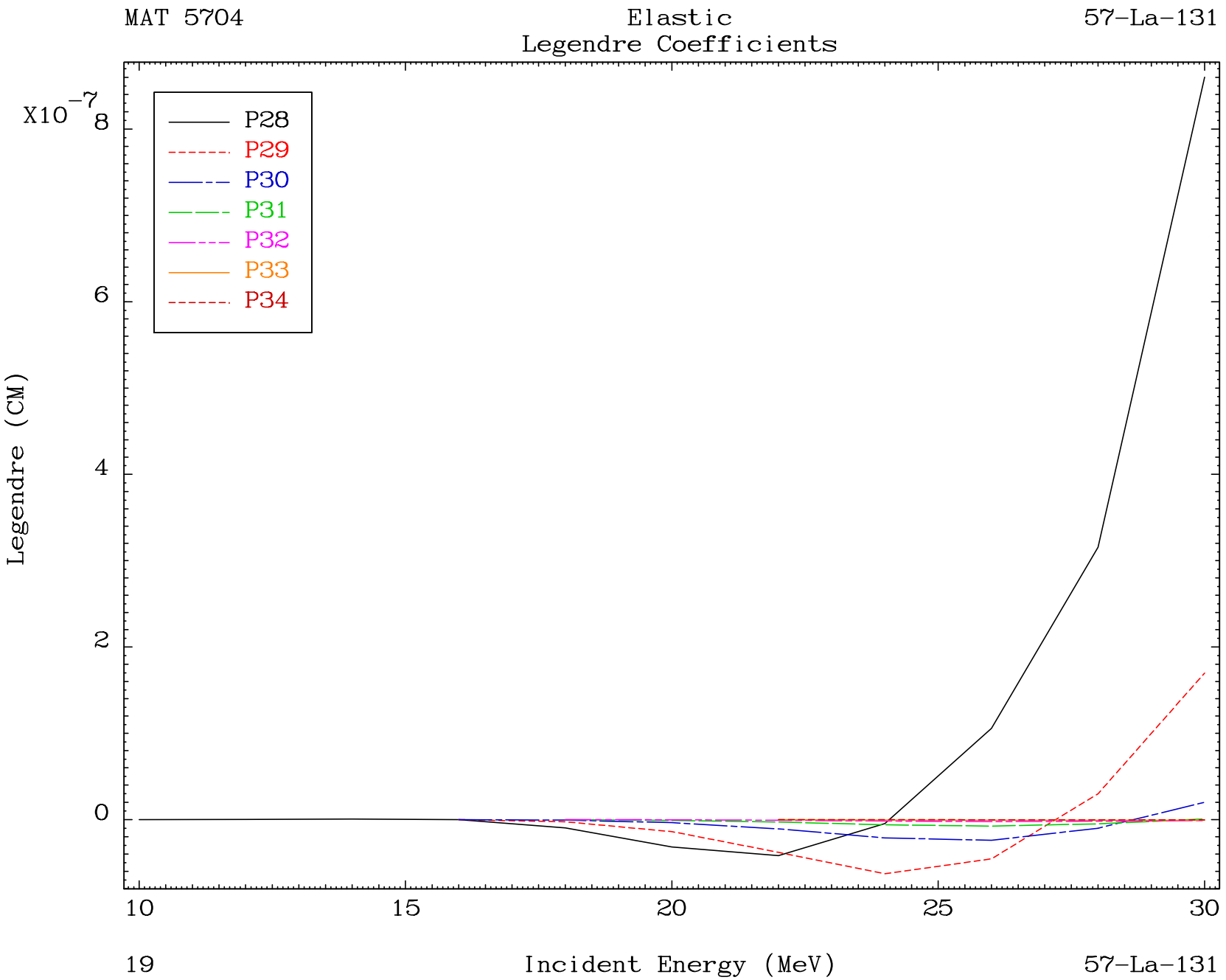

MAT 5704
(n,He3) Levels
57-La-131
293 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
Incident Energy (MeV)
14
57-La-131

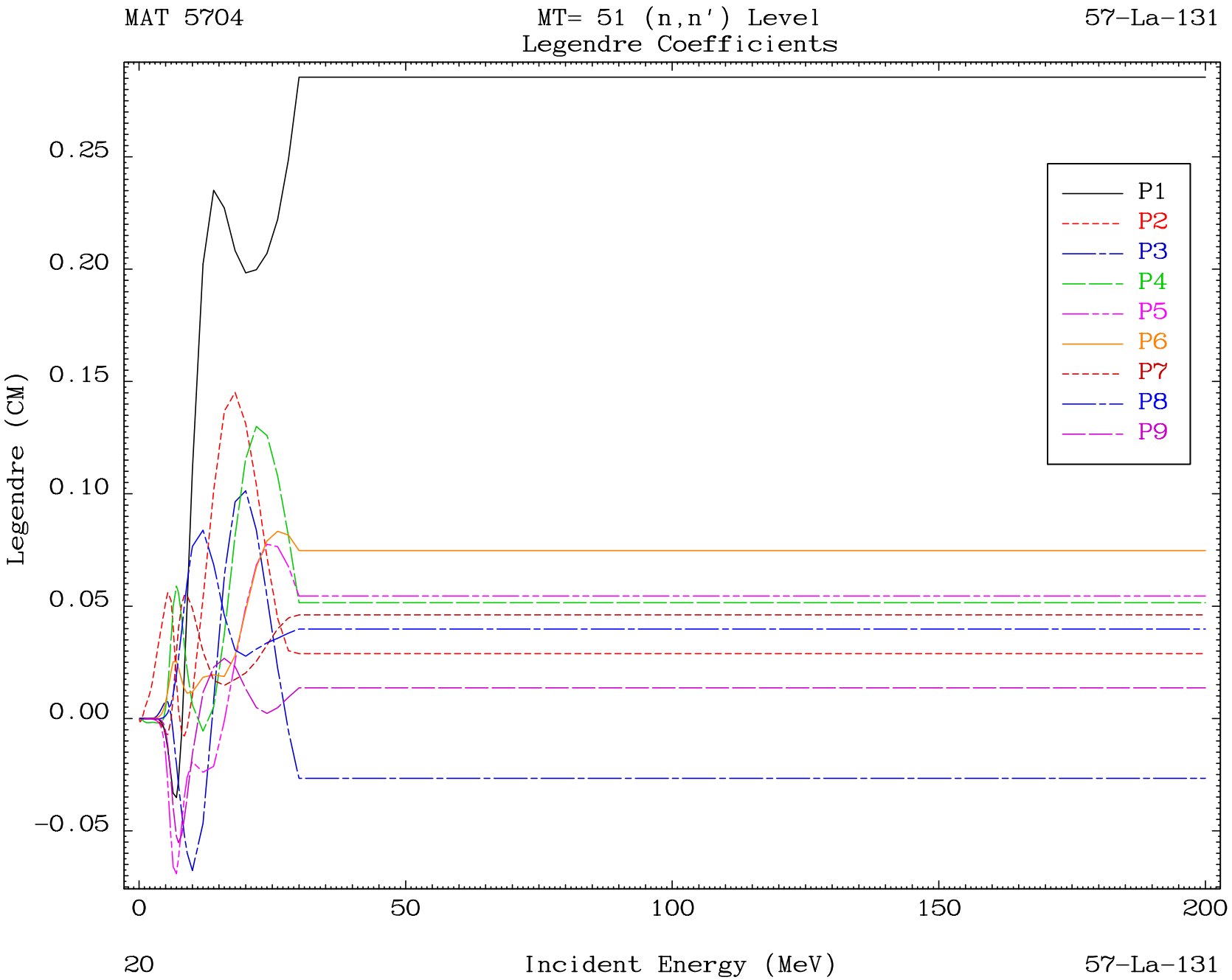

MAT 5704
(n,α) Levels
293 Kelvin Cross Sections
57-La-131
Cross Section (barns)
10-2
5
10-4
5
10-6
5
10-8
5
(n,α)
(n,2α)
10-10
10-8
10-6
10-4
10-2
100
102
15
Incident Energy (MeV)
57-La-131

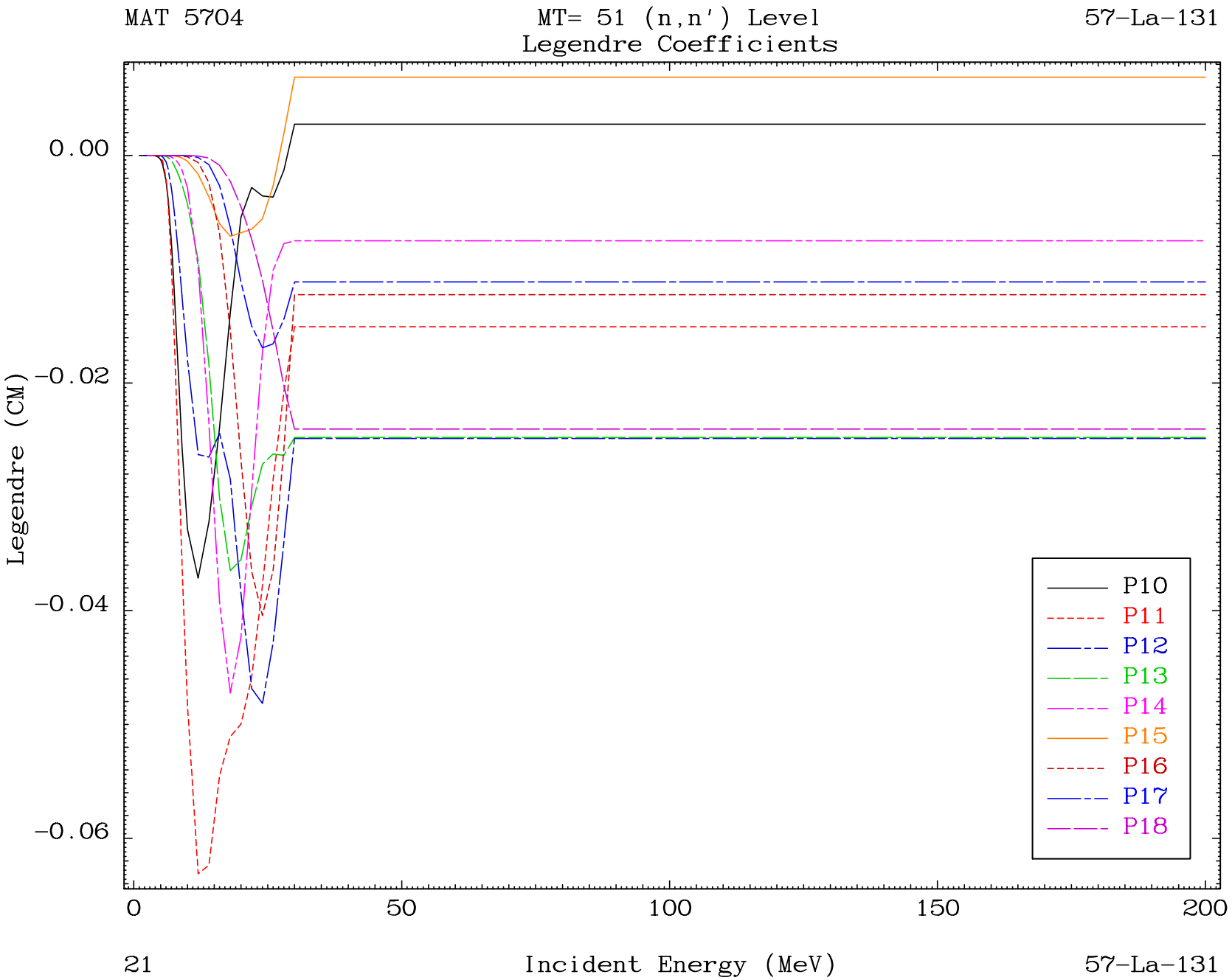

MAT 5704
Elastic
Legendre Coefficients
57-La-131
Legendre (CM)
0.0
0.2
0.4
0.6
0.8
0
10
20
30
16
Incident Energy (MeV)
57-La-131
P1
P2
P3
P4
P5
P6
P7
P8
P9

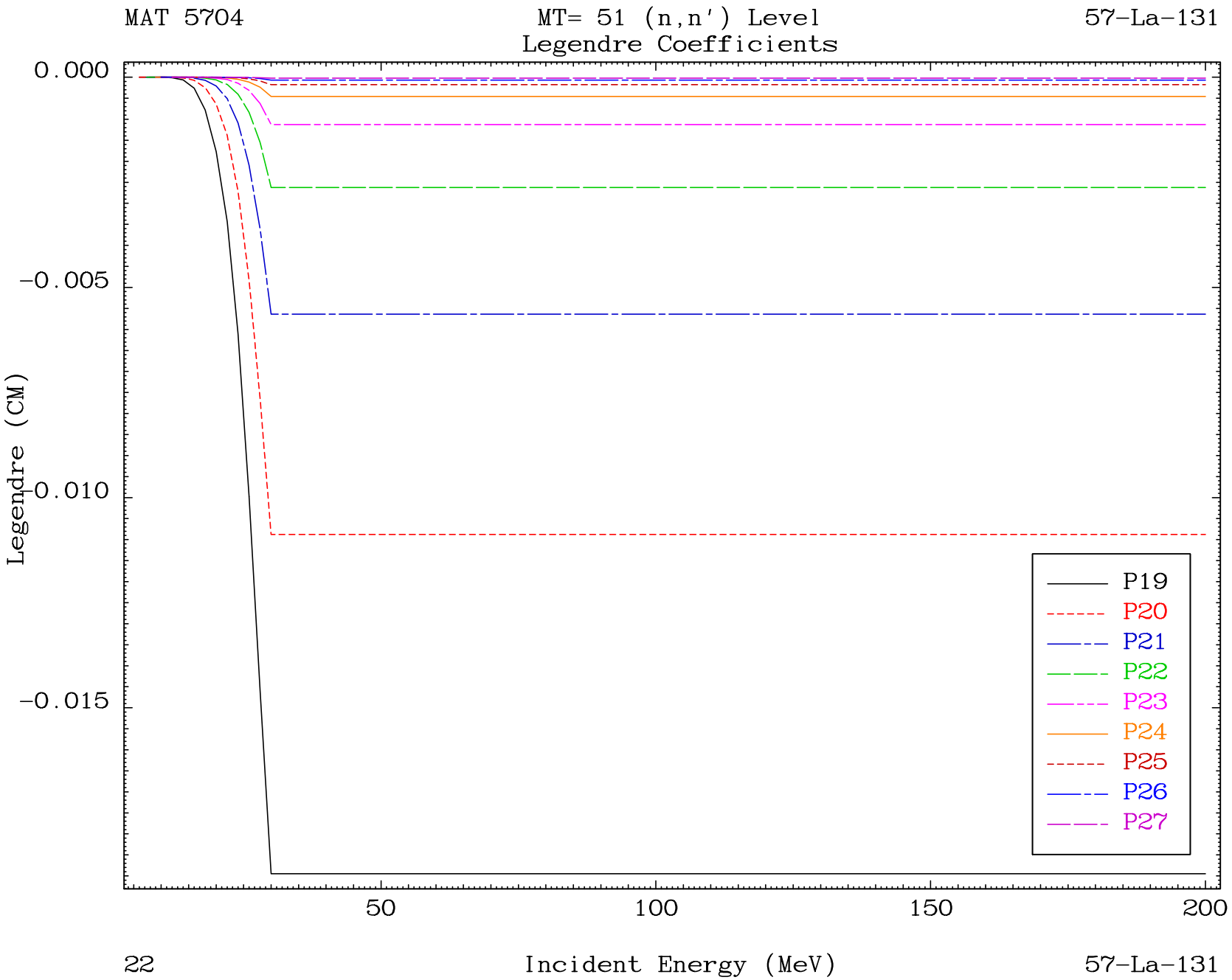

MAT 5704
Elastic
Legendre Coefficients
57-La-131
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.3
0.2
0.1
0.0
Legendre (CM)
5
10
15
20
25
30
17
Incident Energy (MeV)
57-La-131

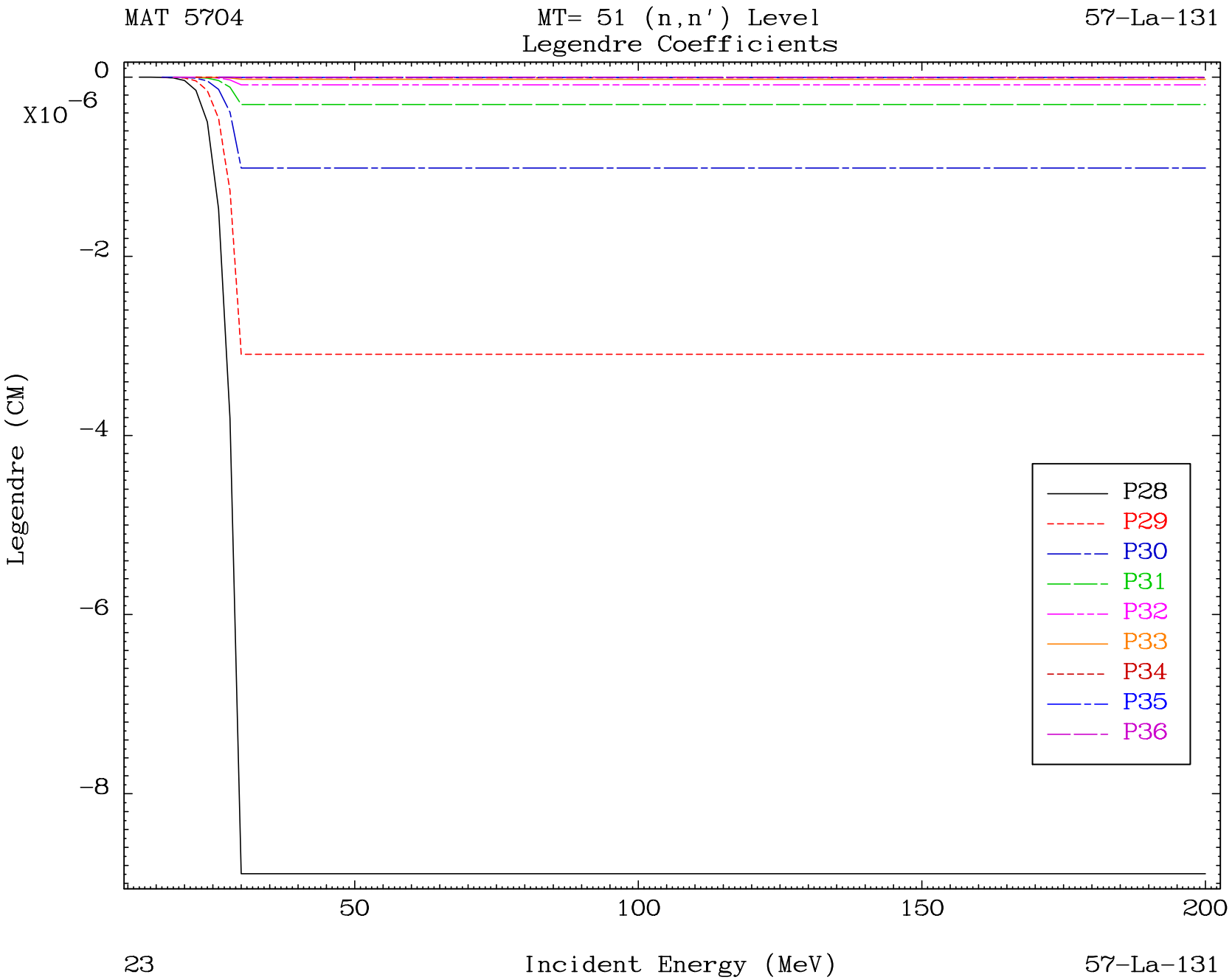

MAT 5704
Elastic
Legendre Coefficients
57-La-131
P19
P20
P21
P22
P23
P24
P25
P26
P27
0.008
0.006
0.004
0.002
0.000
Legendre (CM)
10
15
20
25
30
18
Incident Energy (MeV)
57-La-131

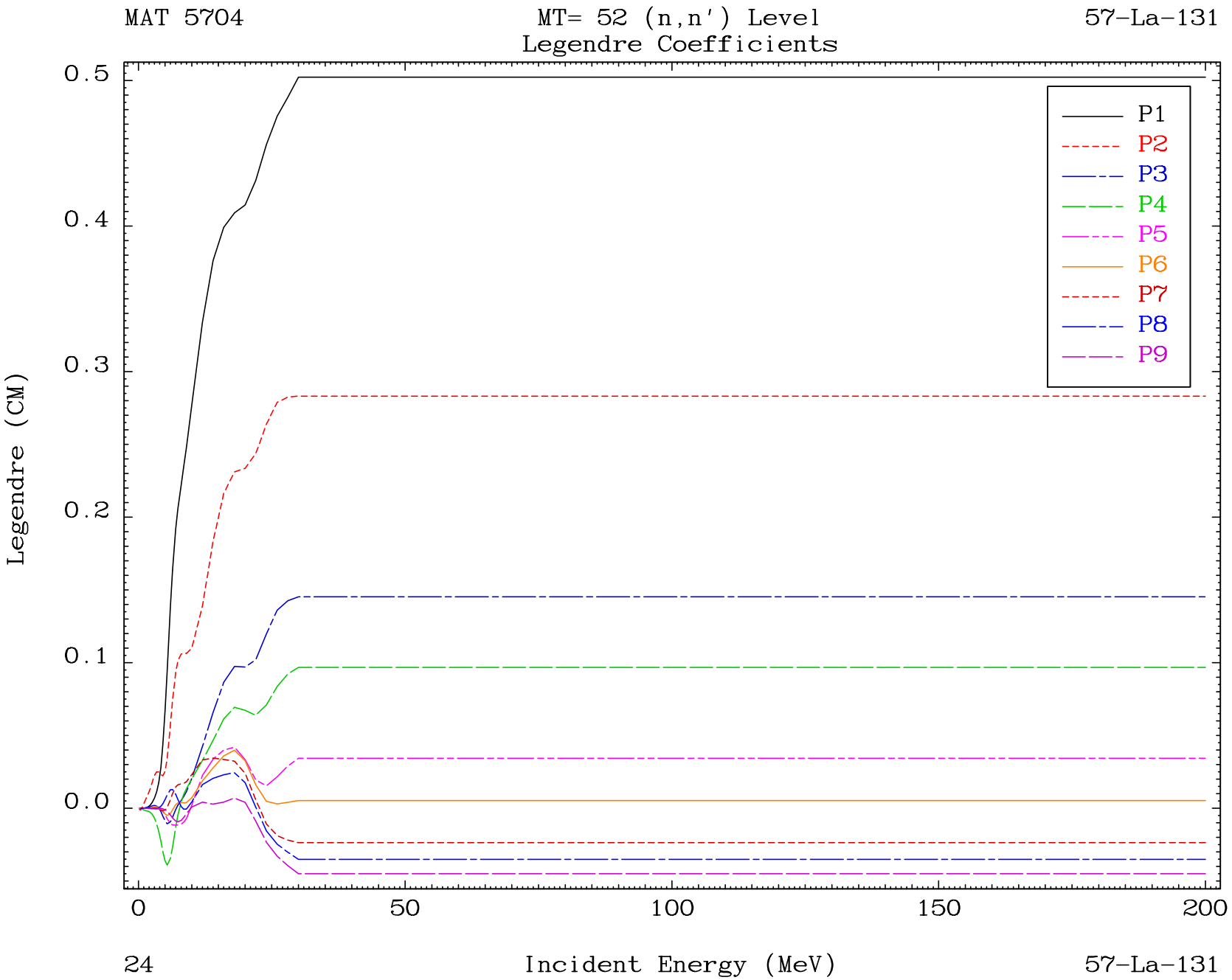

MAT 5704
Elastic
Legendre Coefficients
57-La-131
X10^-7
8
6
4
2
0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
10
15
20
25
30
19
Incident Energy (MeV)
57-La-131

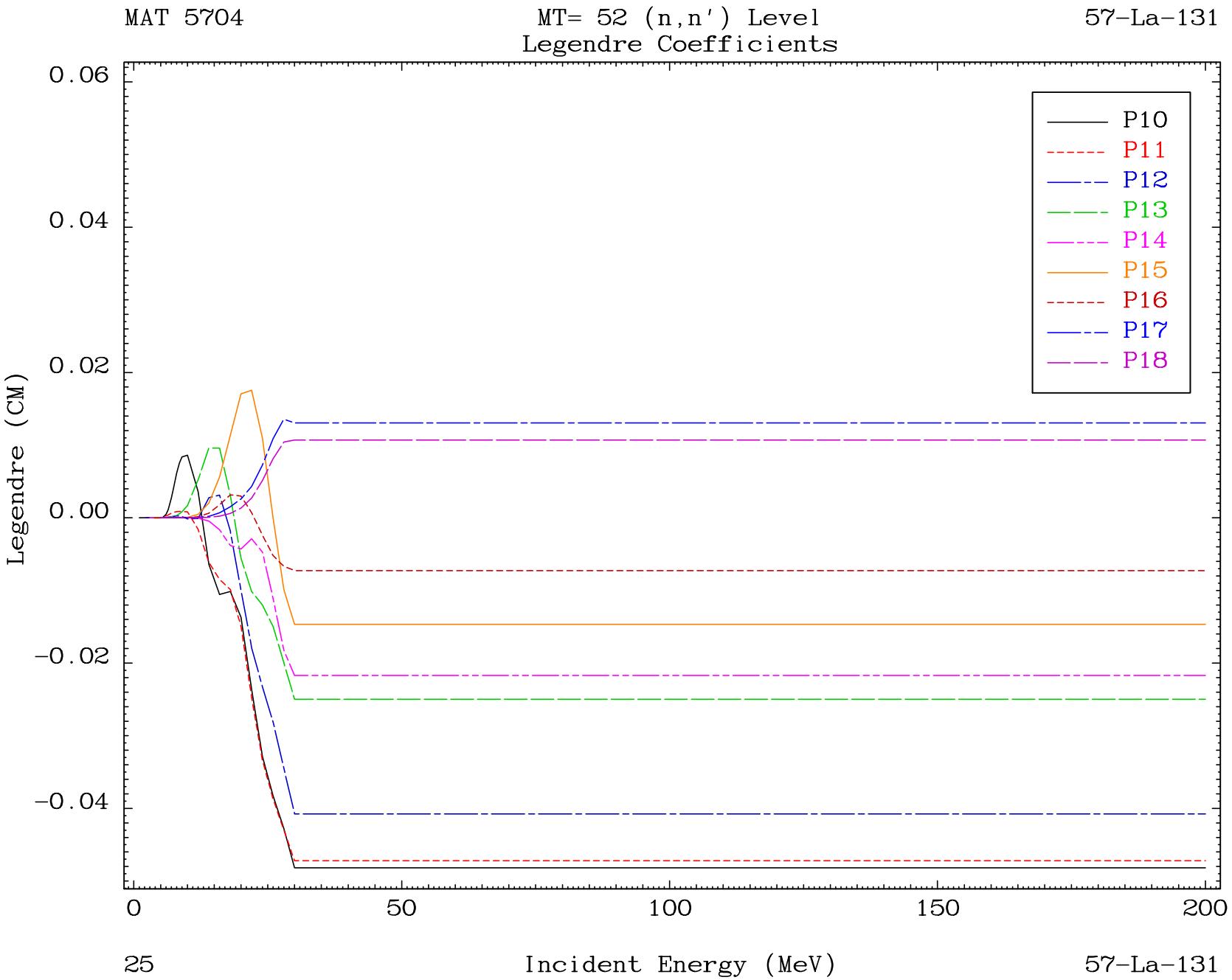

MAT 5704
MT= 51 (n,n') Level
Legendre Coefficients
57-La-131
0.25
0.20
0.15
0.10
0.05
0.00
-0.05
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
20
Incident Energy (MeV)
57-La-131

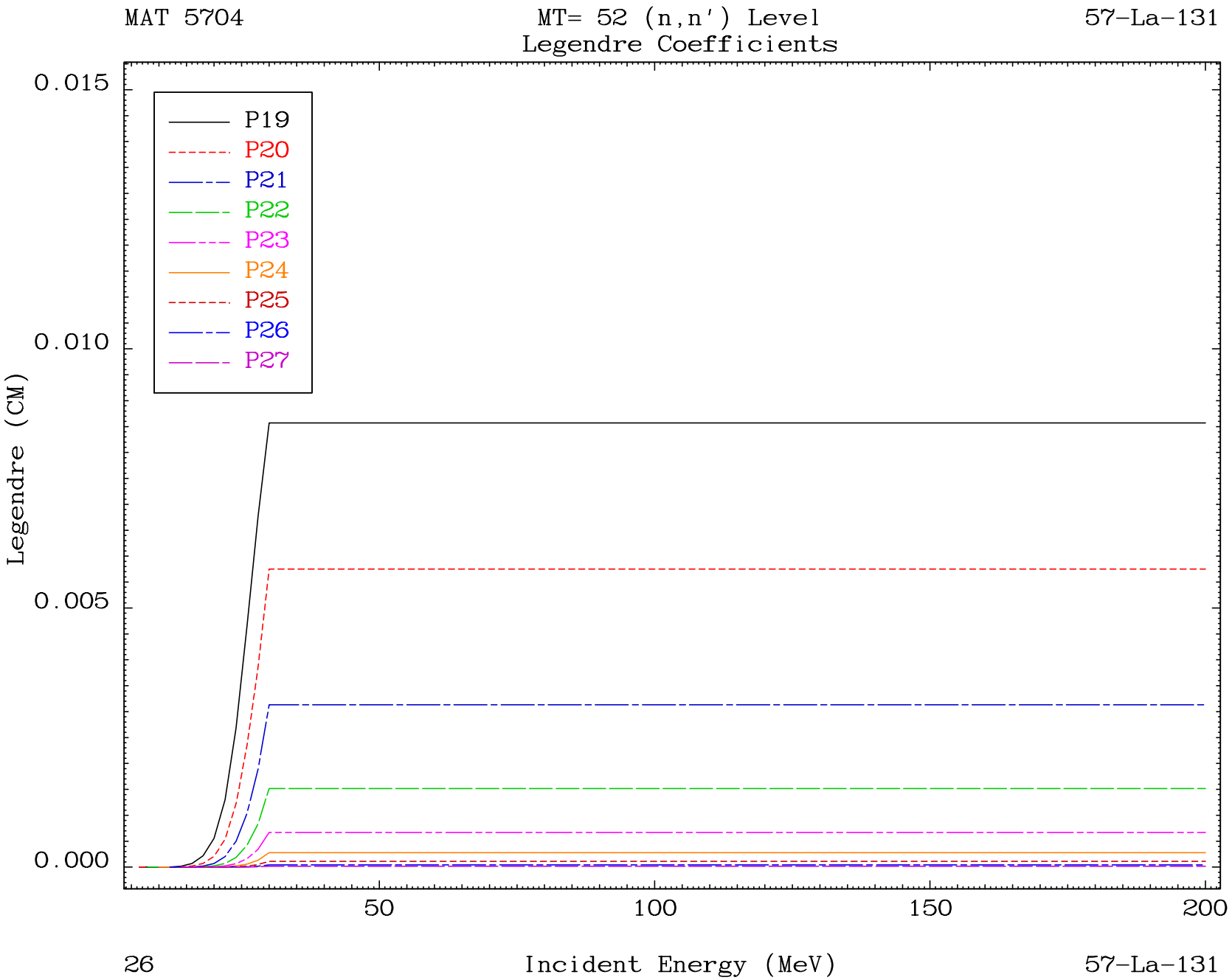

MAT 5704
MT= 51 (n,n') Level
Legendre Coefficients
57-La-131
0.00
-0.02
-0.04
-0.06
Legendre (CM)
0
50
100
150
200
Incident Energy (MeV)
21
57-La-131
P10
P11
P12
P13
P14
P15
P16
P17
P18

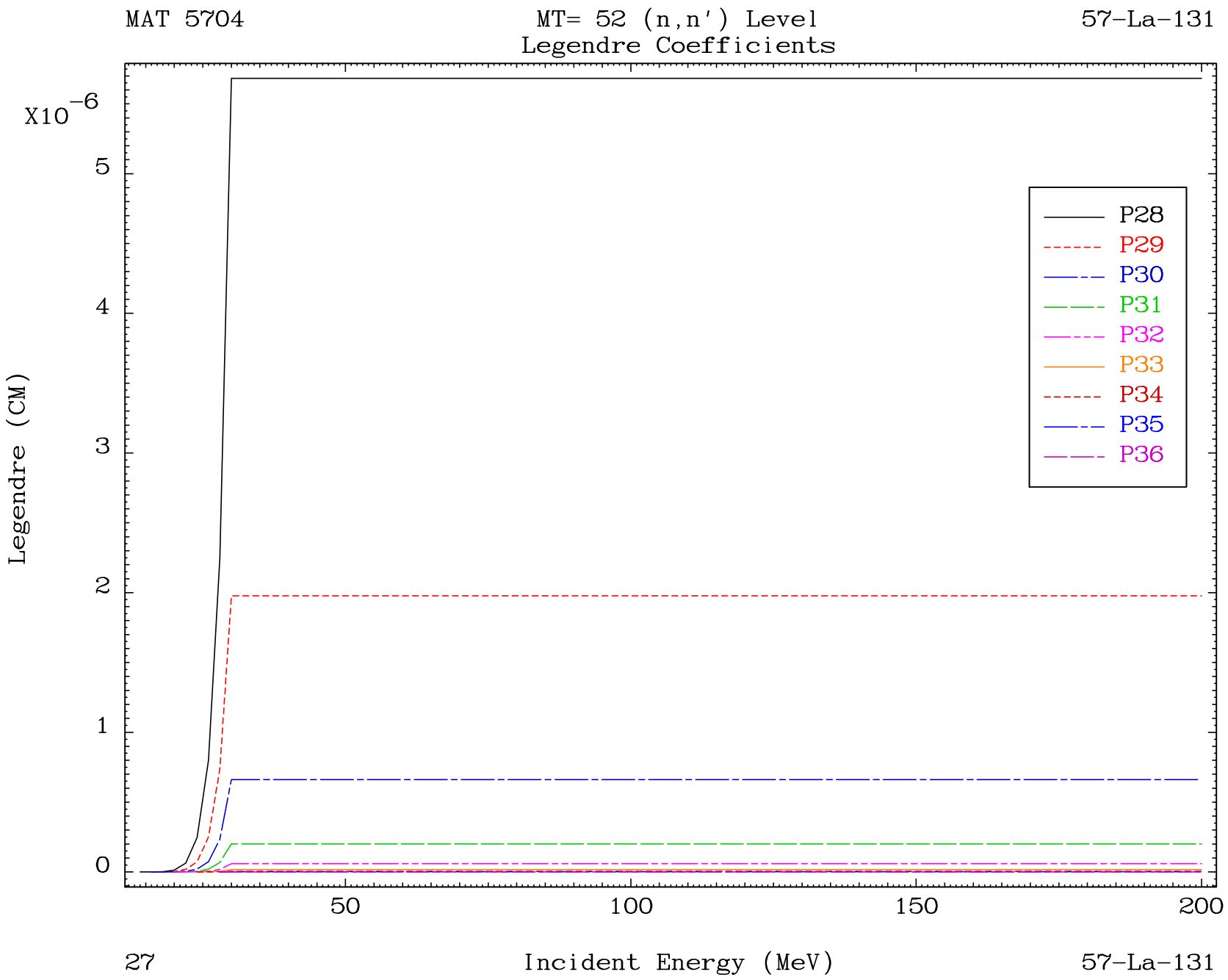

MAT 5704
MT= 51 (n,n') Level
Legendre Coefficients
57-La-131
0.000
-0.005
-0.010
-0.015
Legendre (CM)
50
100
150
200
22
Incident Energy (MeV)
57-La-131
P19
P20
P21
P22
P23
P24
P25
P26
P27

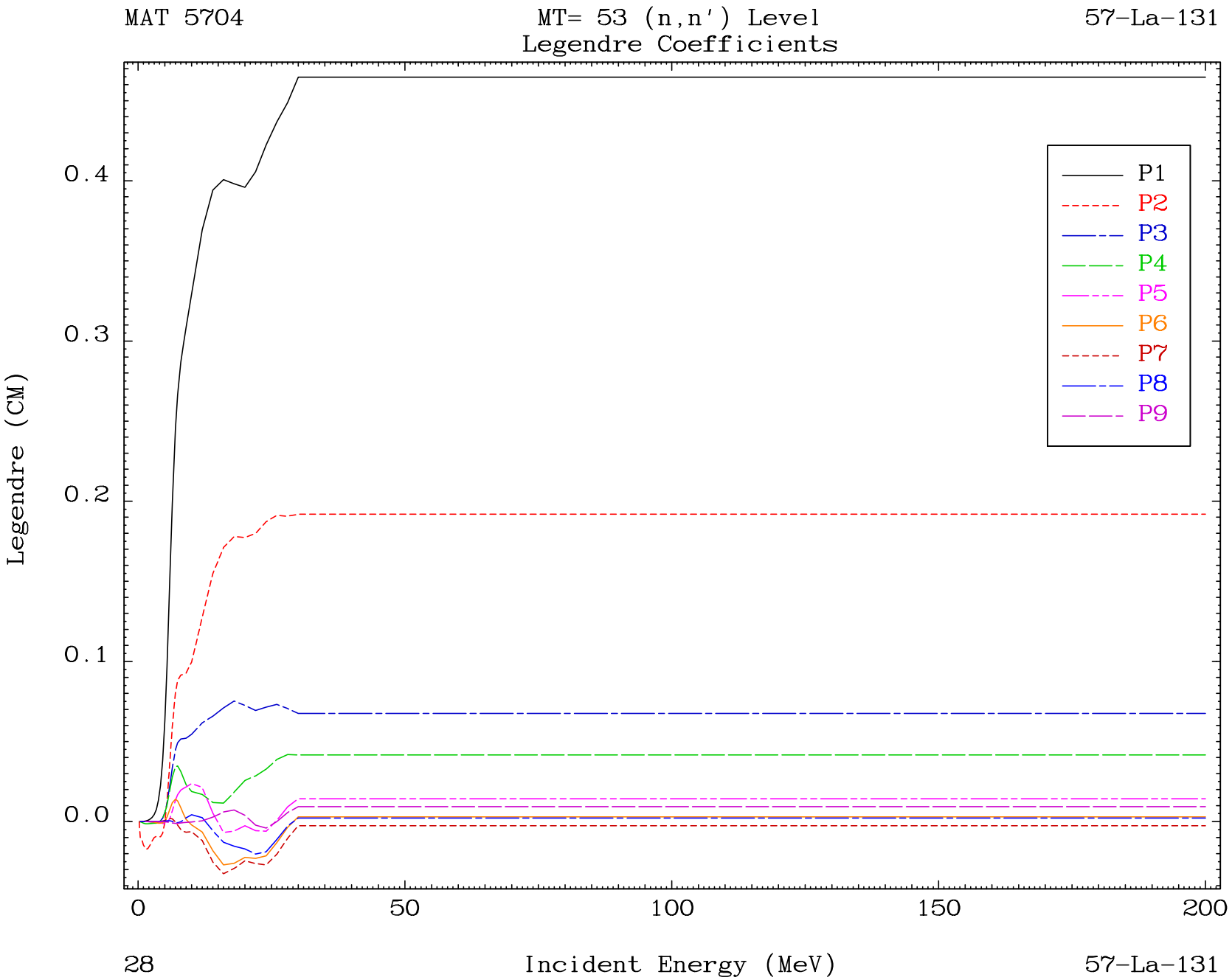

MAT 5704
MT= 51 (n,n') Level
Legendre Coefficients
57-La-131
0
X10 −6
−2
−4
−6
−8
Legendre (CM)
50
100
150
200
23
Incident Energy (MeV)
57-La-131
P28
P29
P30
P31
P32
P33
P34
P35
P36

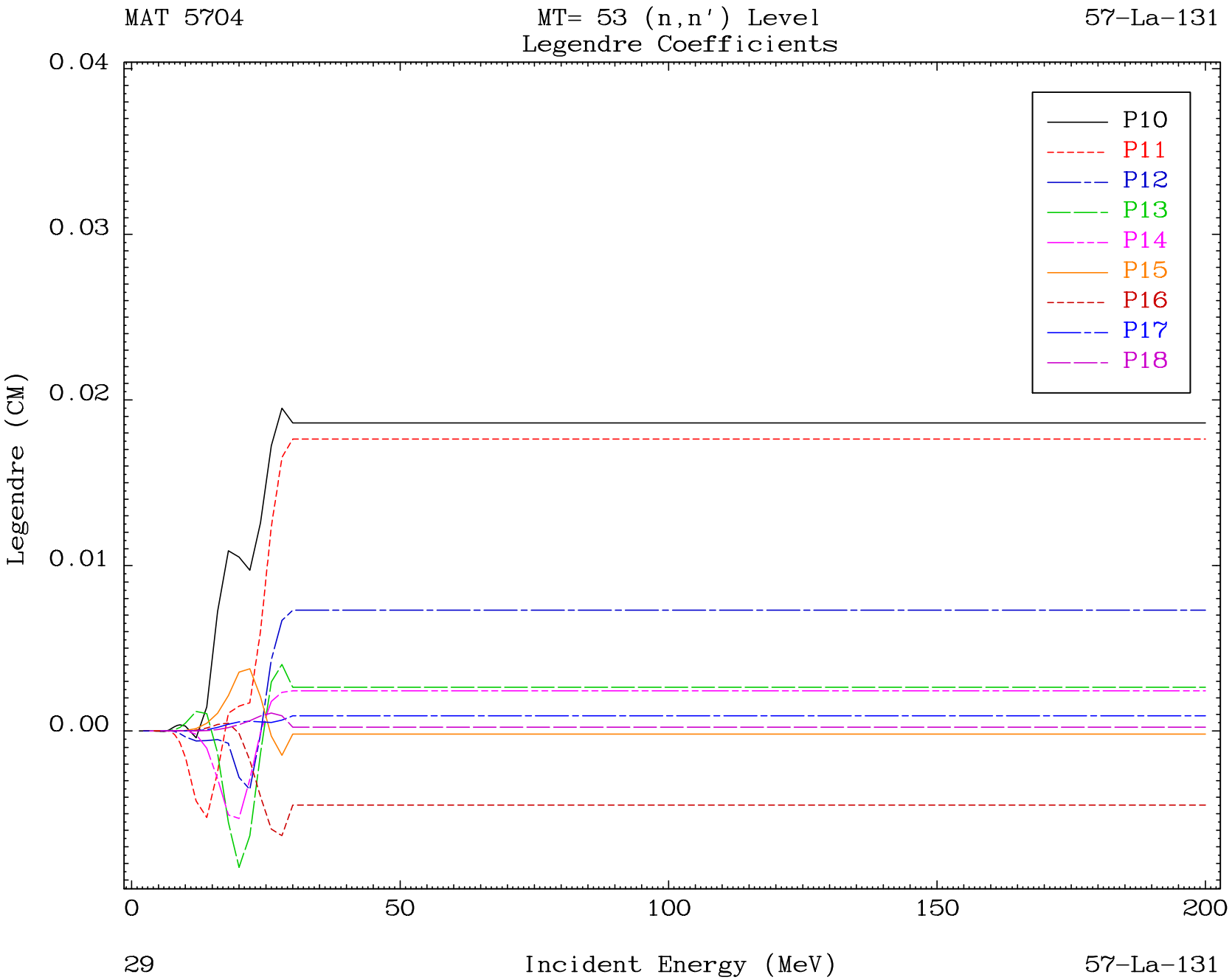

MAT 5704
MT= 52 (n,n') Level
Legendre Coefficients
57-La-131
0.5
0.4
0.3
0.2
0.1
0.0
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
24
Incident Energy (MeV)
57-La-131

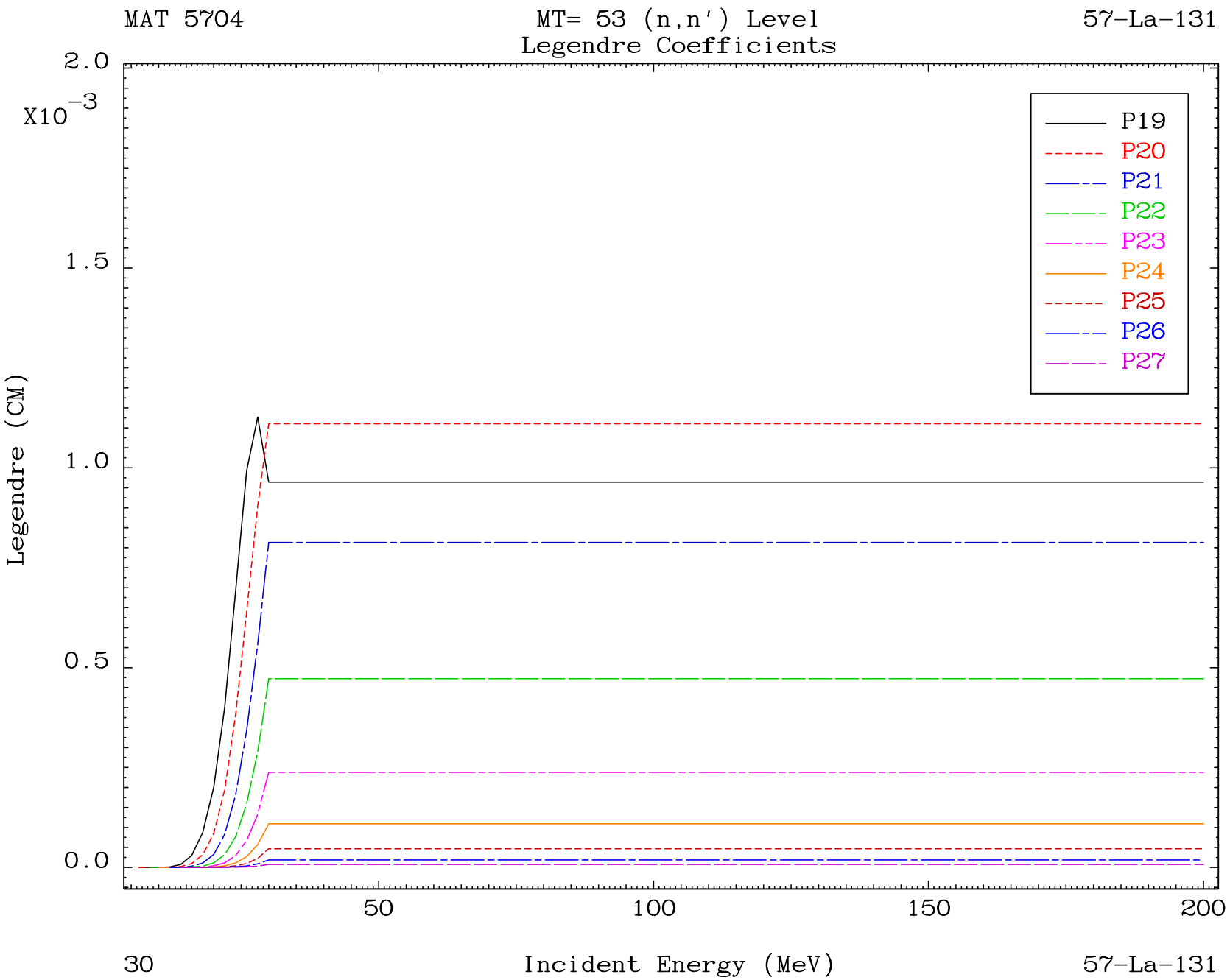

MAT 5704
MT= 52 (n,n') Level
Legendre Coefficients
57-La-131
0.06
0.04
0.02
0.00
-0.02
-0.04
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
25
Incident Energy (MeV)
57-La-131

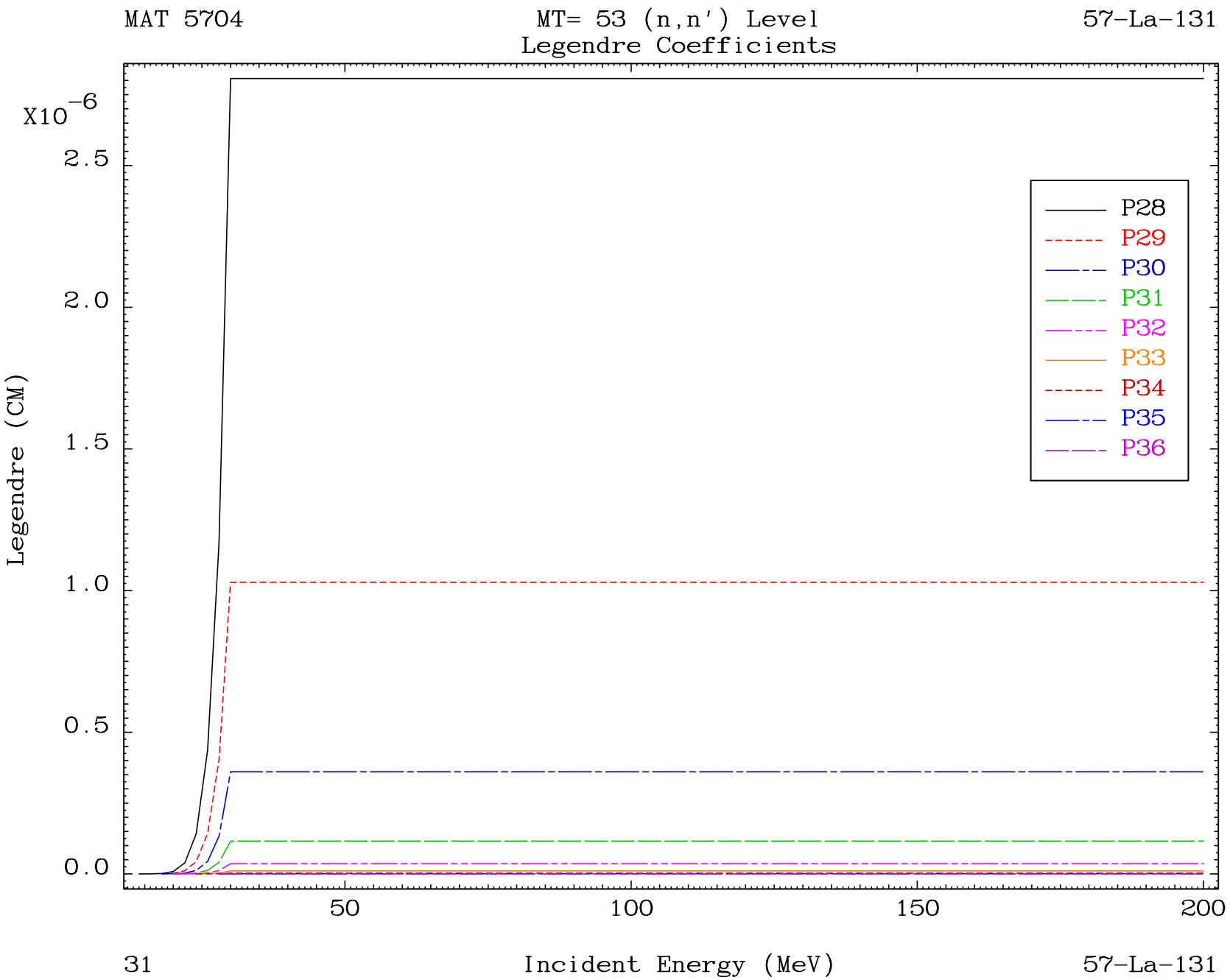

MAT 5704
MT= 52 (n,n') Level
Legendre Coefficients
57-La-131
P19
P20
P21
P22
P23
P24
P25
P26
P27
0.015
0.010
0.005
0.000
Legendre (CM)
50
100
150
200
26
Incident Energy (MeV)
57-La-131

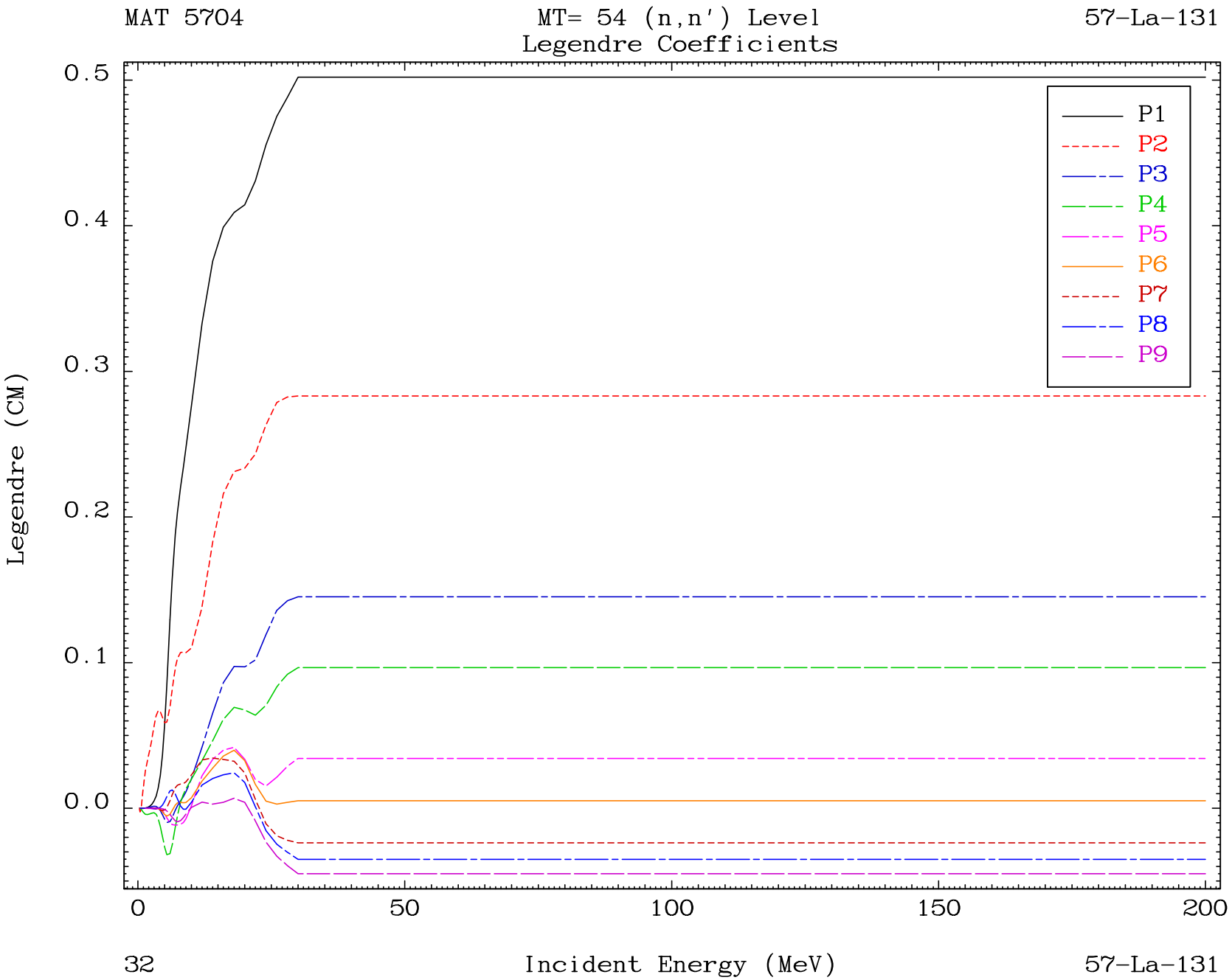

MAT 5704
MT= 52 (n,n') Level
Legendre Coefficients
57-La-131
X10 -6
5
4
3
2
1
0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
P35
P36
50
100
150
200
27
Incident Energy (MeV)
57-La-131

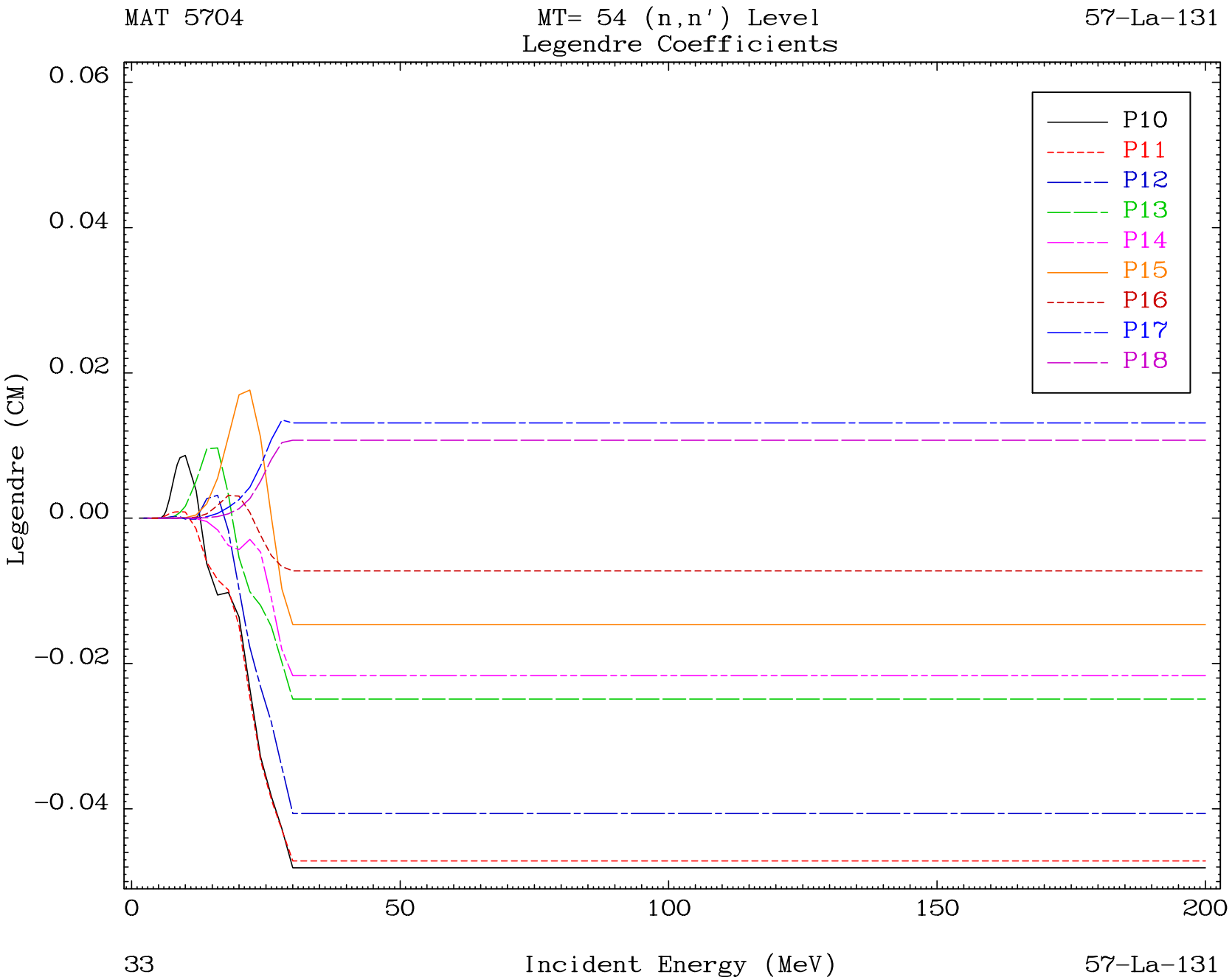

MAT 5704
MT= 53 (n,n') Level
Legendre Coefficients
57-La-131
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
28
Incident Energy (MeV)
57-La-131

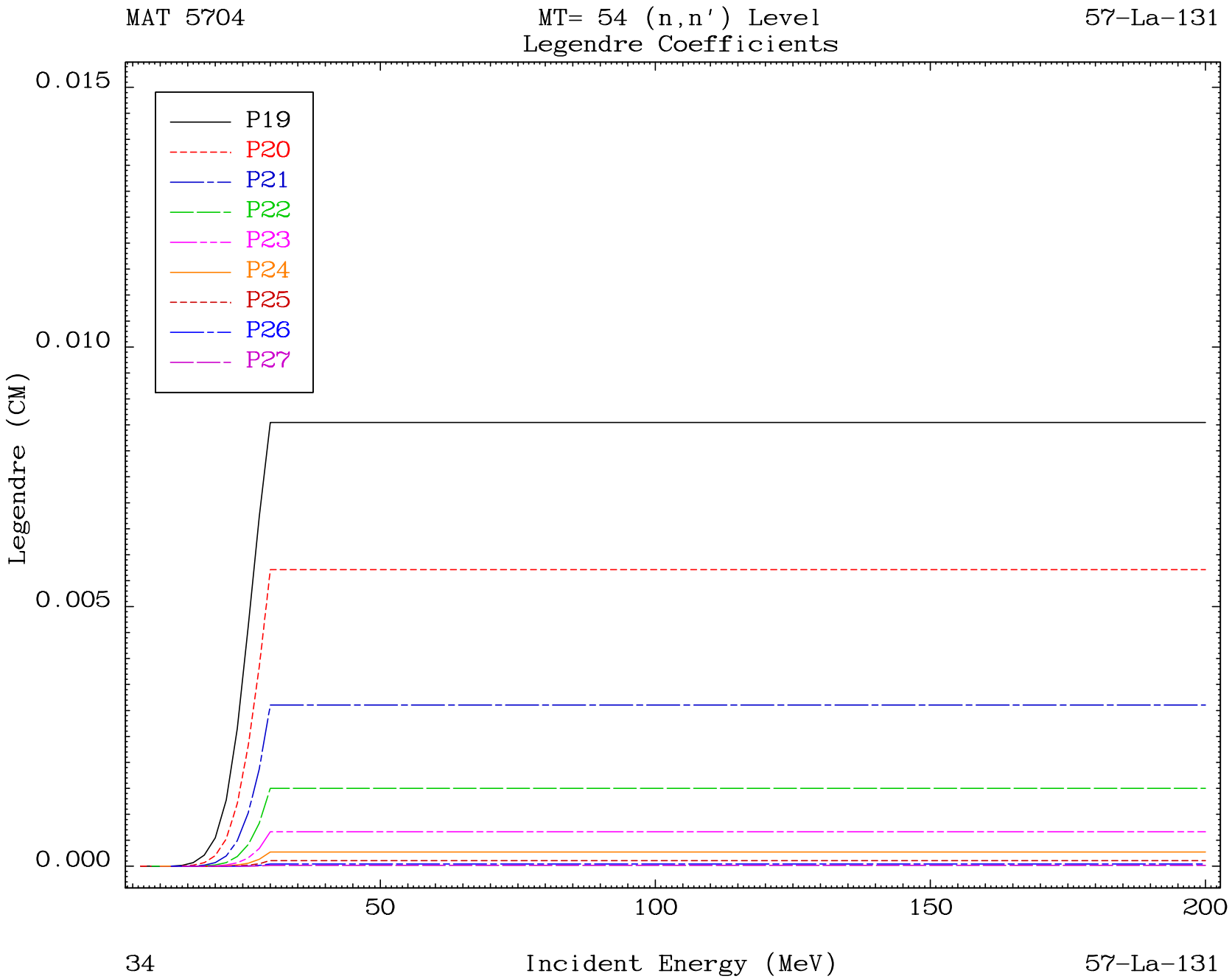

MAT 5704
MT= 53 (n,n') Level
Legendre Coefficients
57-La-131
0.04
0.03
0.02
0.01
0.00
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
29
Incident Energy (MeV)
57-La-131

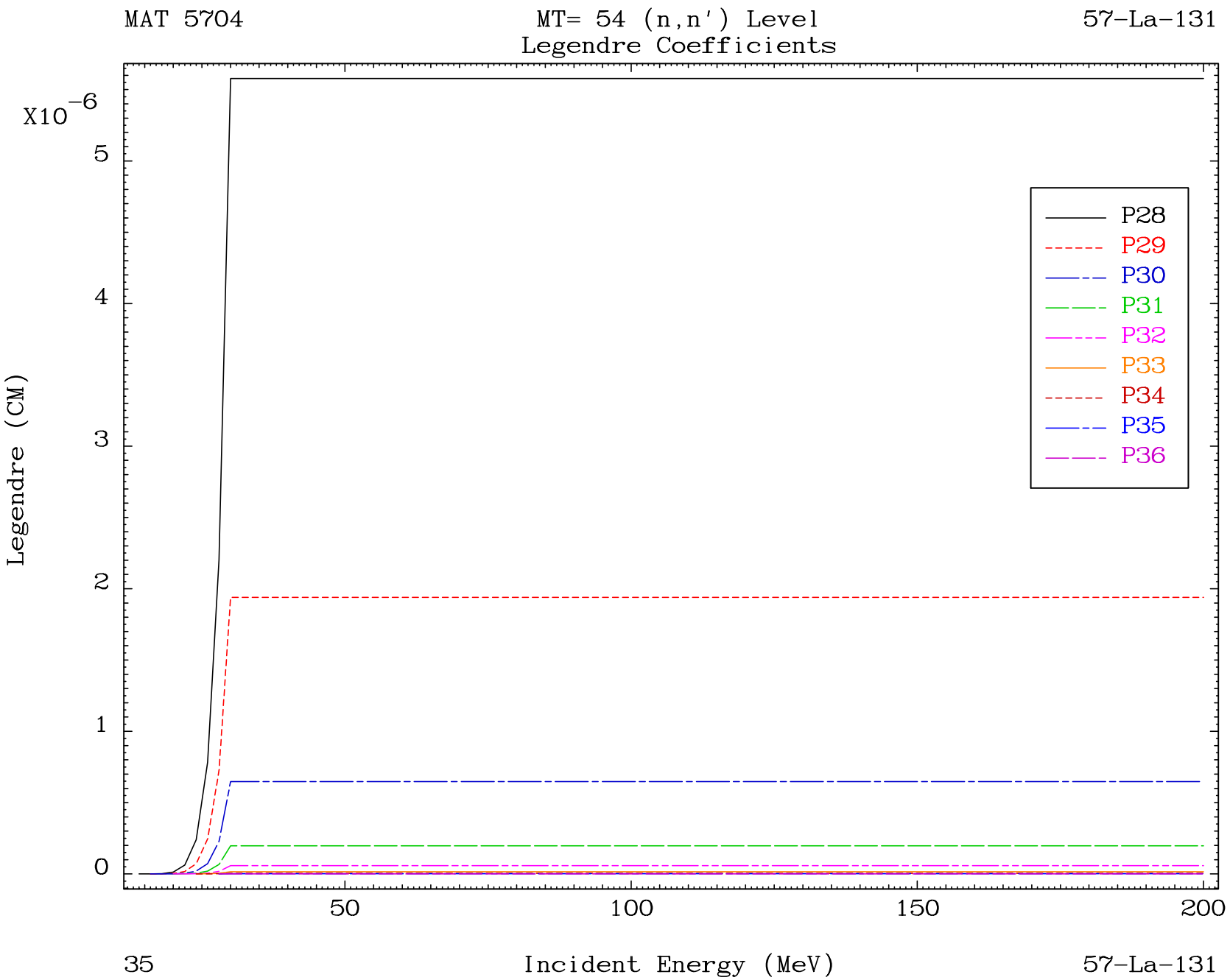

MAT 5704
MT= 53 (n,n') Level
Legendre Coefficients
57-La-131
2.0
X10^-3
1.5
1.0
0.5
0.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
30
Incident Energy (MeV)
57-La-131

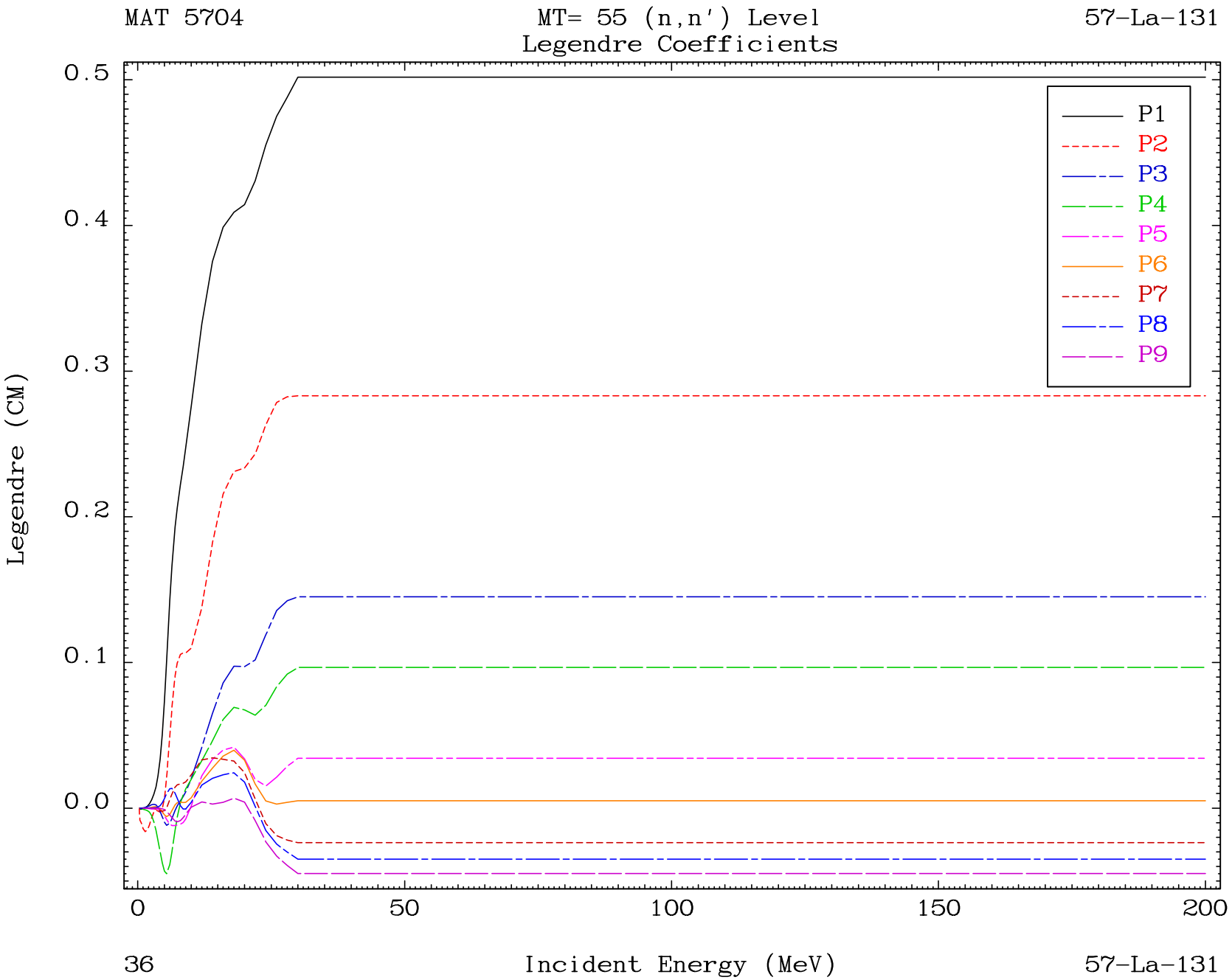

MAT 5704
MT= 53 (n,n') Level
Legendre Coefficients
57-La-131
X10^-6
2.5
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
P35
P36
50
100
150
200
31
Incident Energy (MeV)
57-La-131

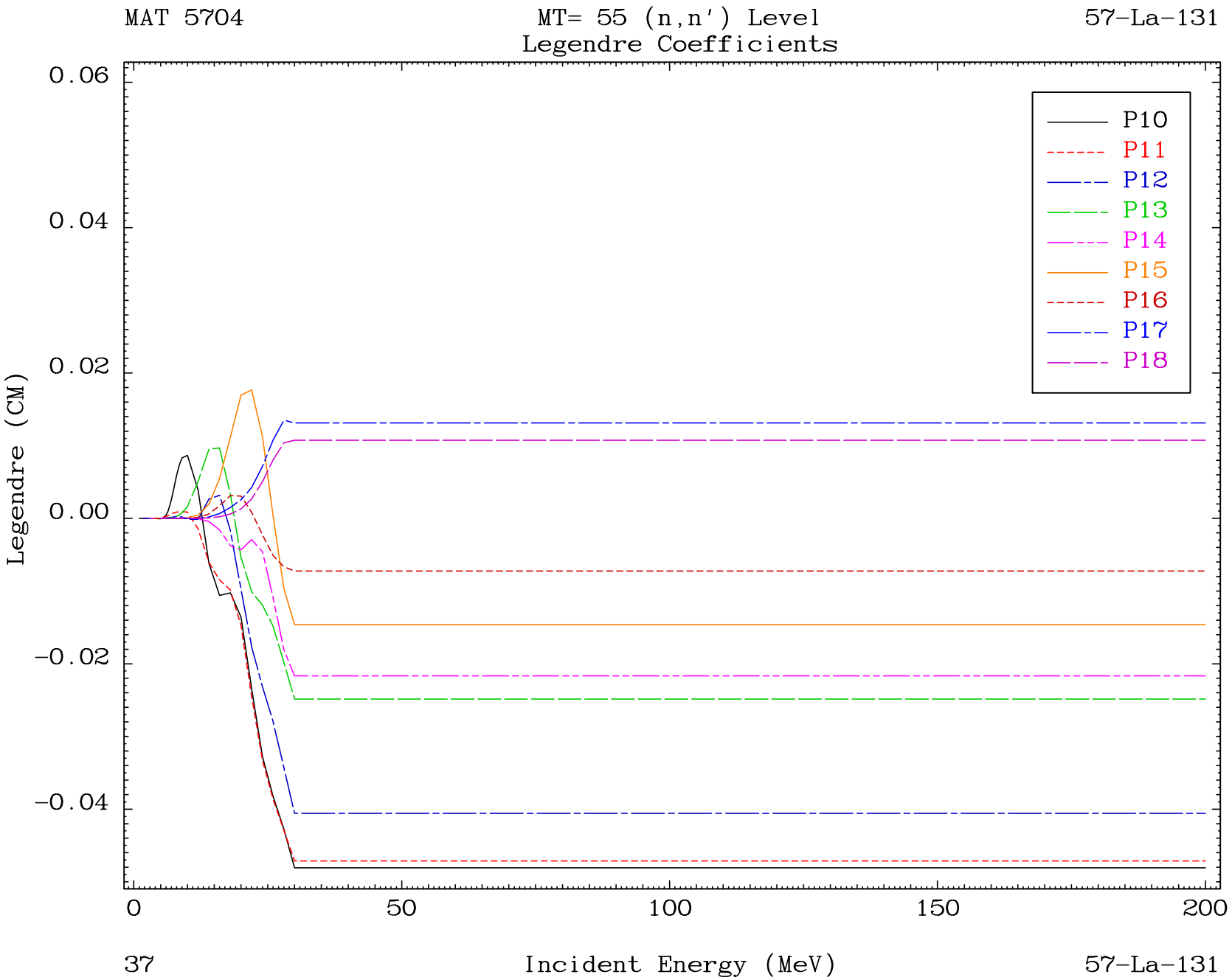

MAT 5704
MT= 54 (n,n') Level
Legendre Coefficients
57-La-131
0.5
0.4
0.3
0.2
0.1
0.0
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
32
Incident Energy (MeV)
57-La-131

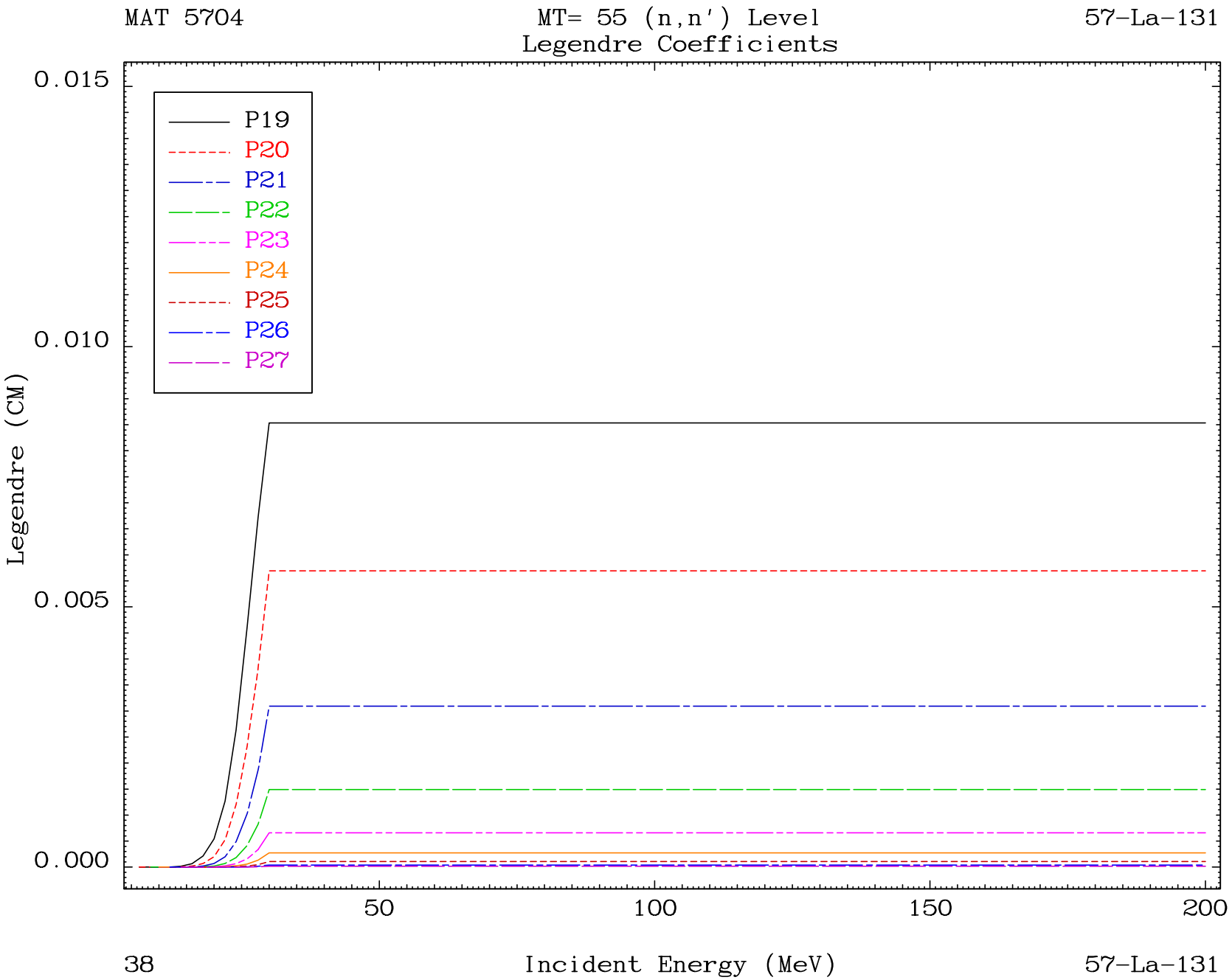

MAT 5704
MT= 54 (n,n') Level
Legendre Coefficients
57-La-131
0.06
0.04
0.02
0.00
-0.02
-0.04
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
33
Incident Energy (MeV)
57-La-131

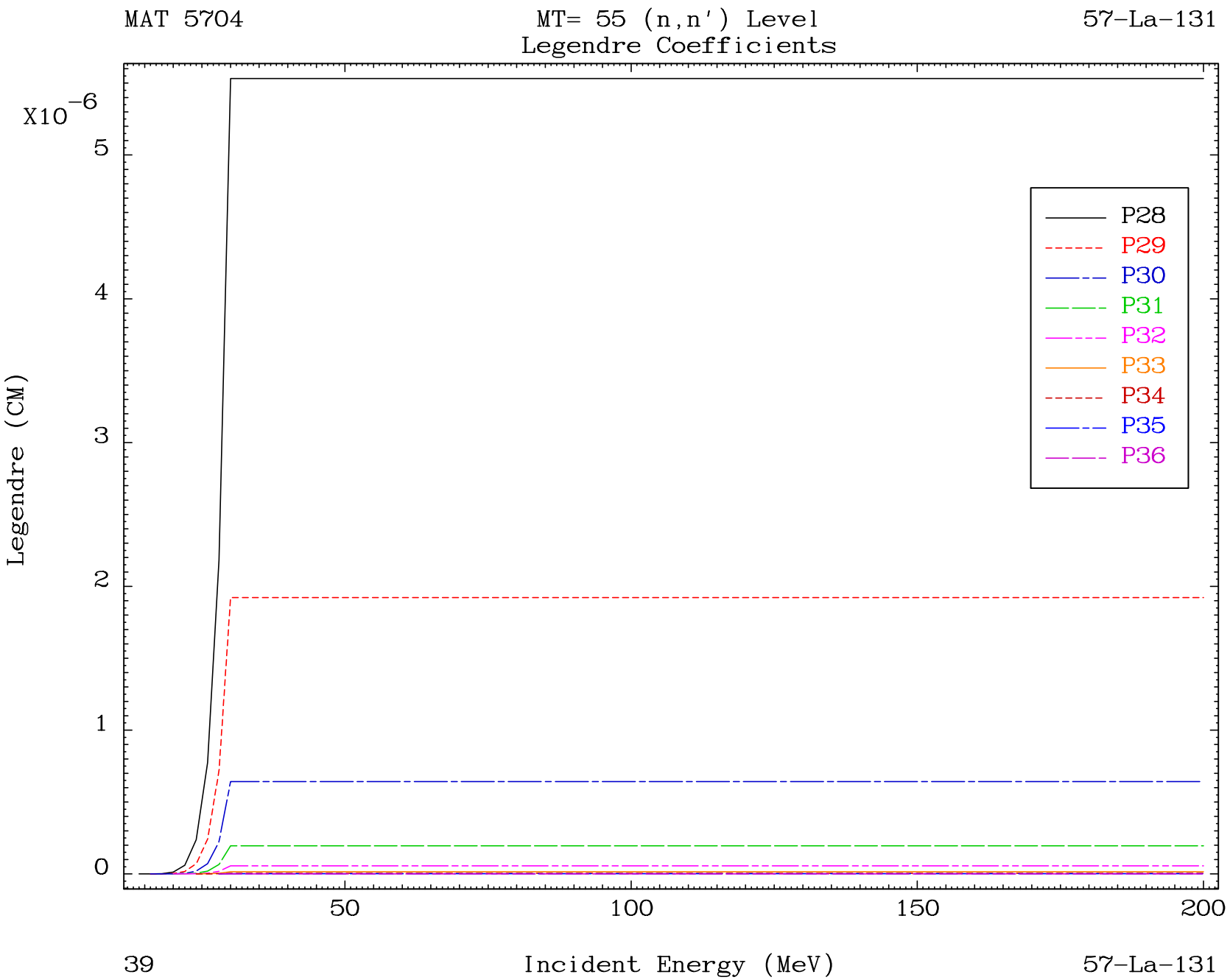

MAT 5704
MT= 54 (n,n') Level
Legendre Coefficients
57-La-131
P19
P20
P21
P22
P23
P24
P25
P26
P27
0.015
0.010
0.005
0.000
Legendre (CM)
50
100
150
200
34
Incident Energy (MeV)
57-La-131

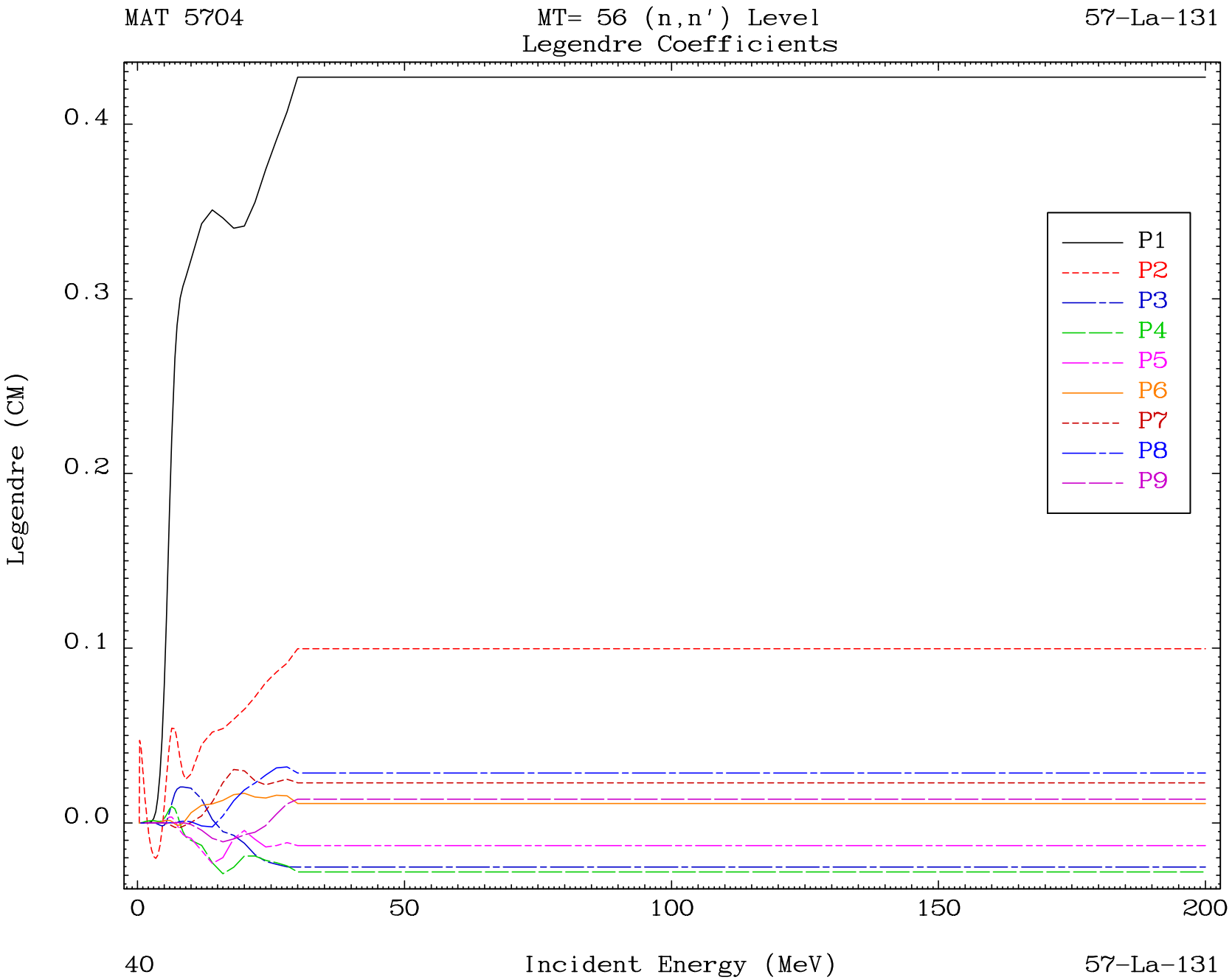

MAT 5704
MT= 54 (n,n') Level
Legendre Coefficients
57-La-131
X10^-6
5
4
3
2
1
0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
P35
P36
50
100
150
200
35
Incident Energy (MeV)
57-La-131

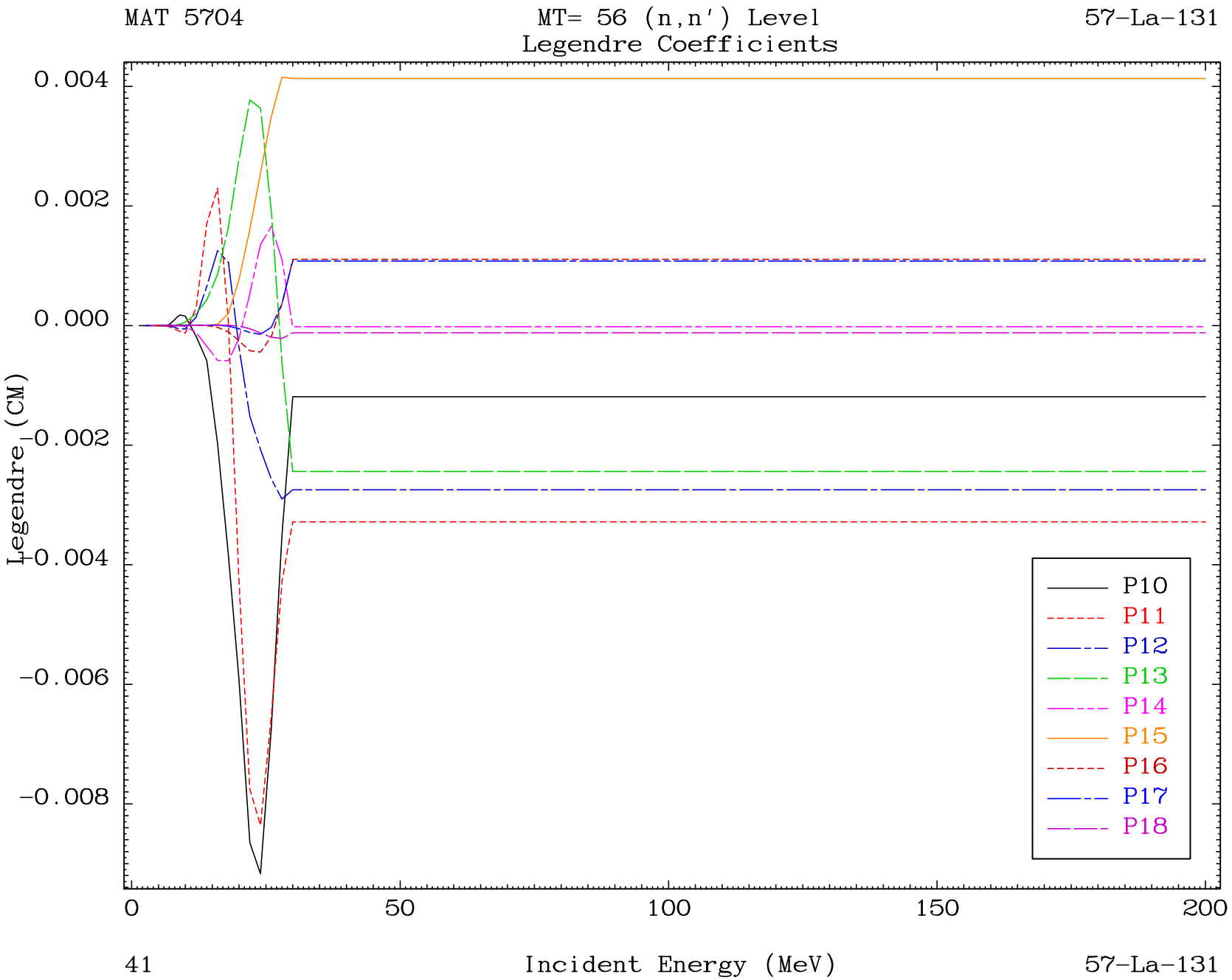

MAT 5704
MT= 55 (n,n') Level
Legendre Coefficients
57-La-131
0.5
0.4
0.3
0.2
0.1
0.0
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
36
Incident Energy (MeV)
57-La-131

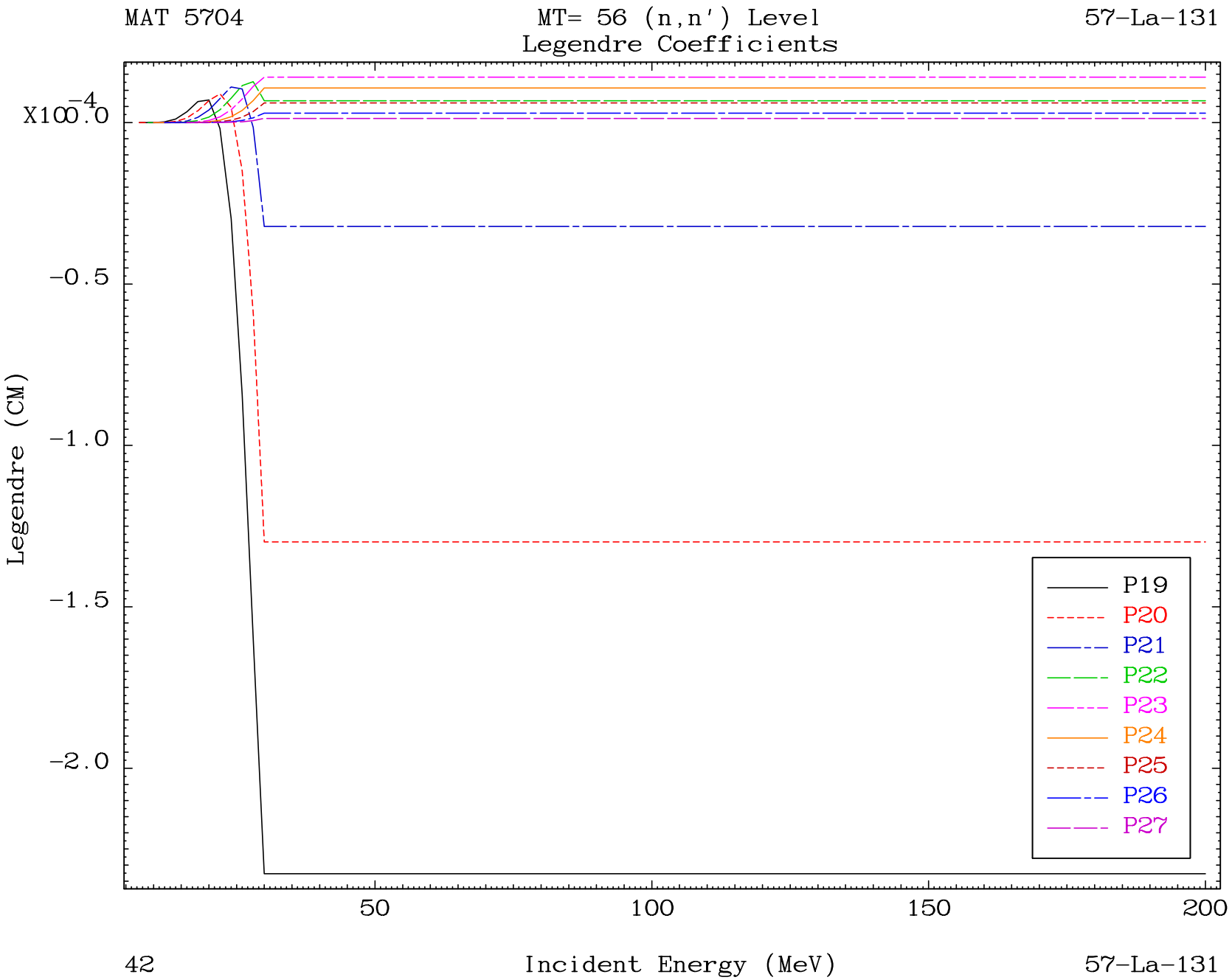

MAT 5704
MT= 55 (n,n') Level
Legendre Coefficients
57-La-131
0.06
0.04
0.02
0.00
-0.02
-0.04
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
37
Incident Energy (MeV)
57-La-131

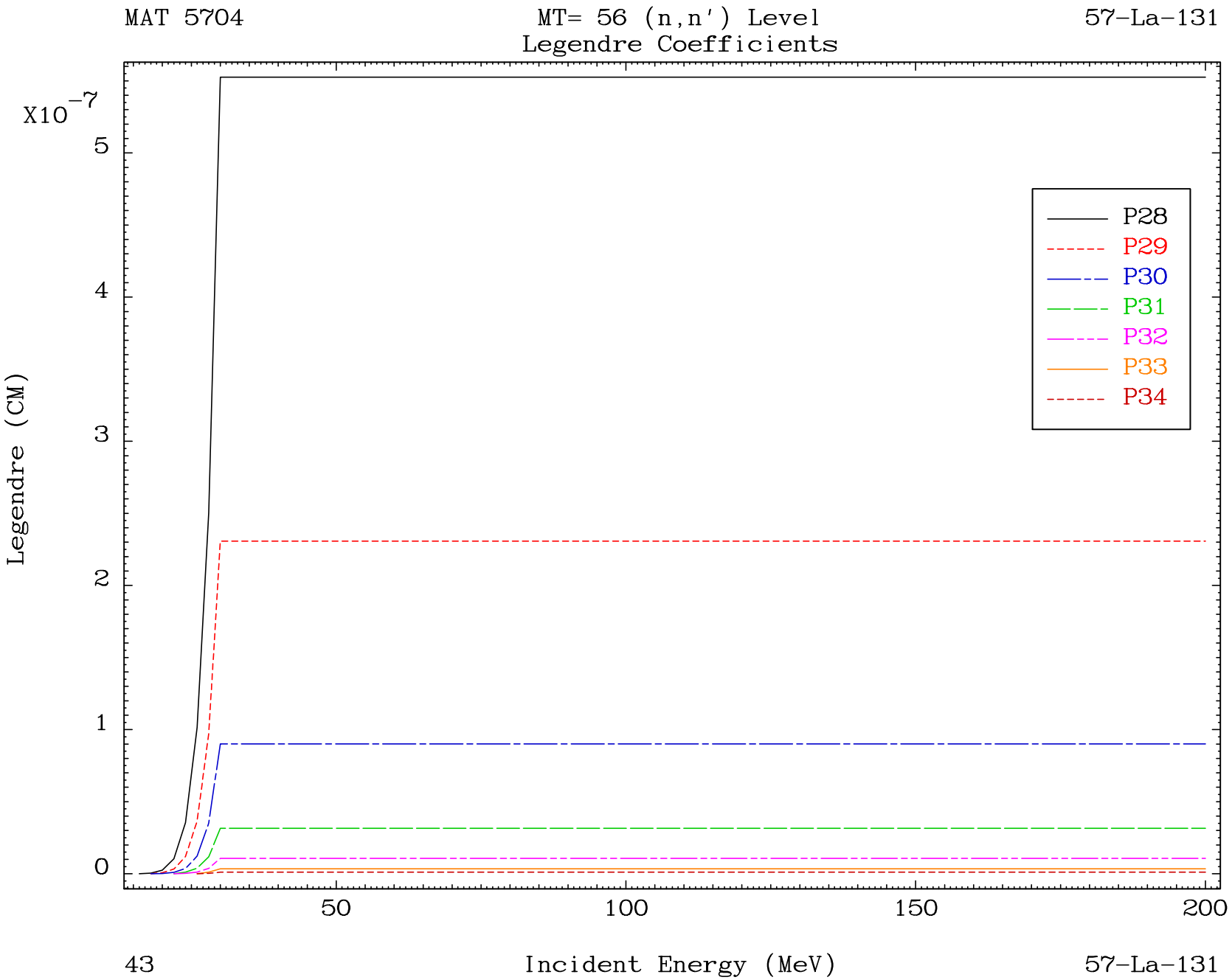

MAT 5704
MT= 55 (n,n') Level
Legendre Coefficients
57-La-131
P19
P20
P21
P22
P23
P24
P25
P26
P27
0.015
0.010
0.005
0.000
Legendre (CM)
50
100
150
200
38
Incident Energy (MeV)
57-La-131

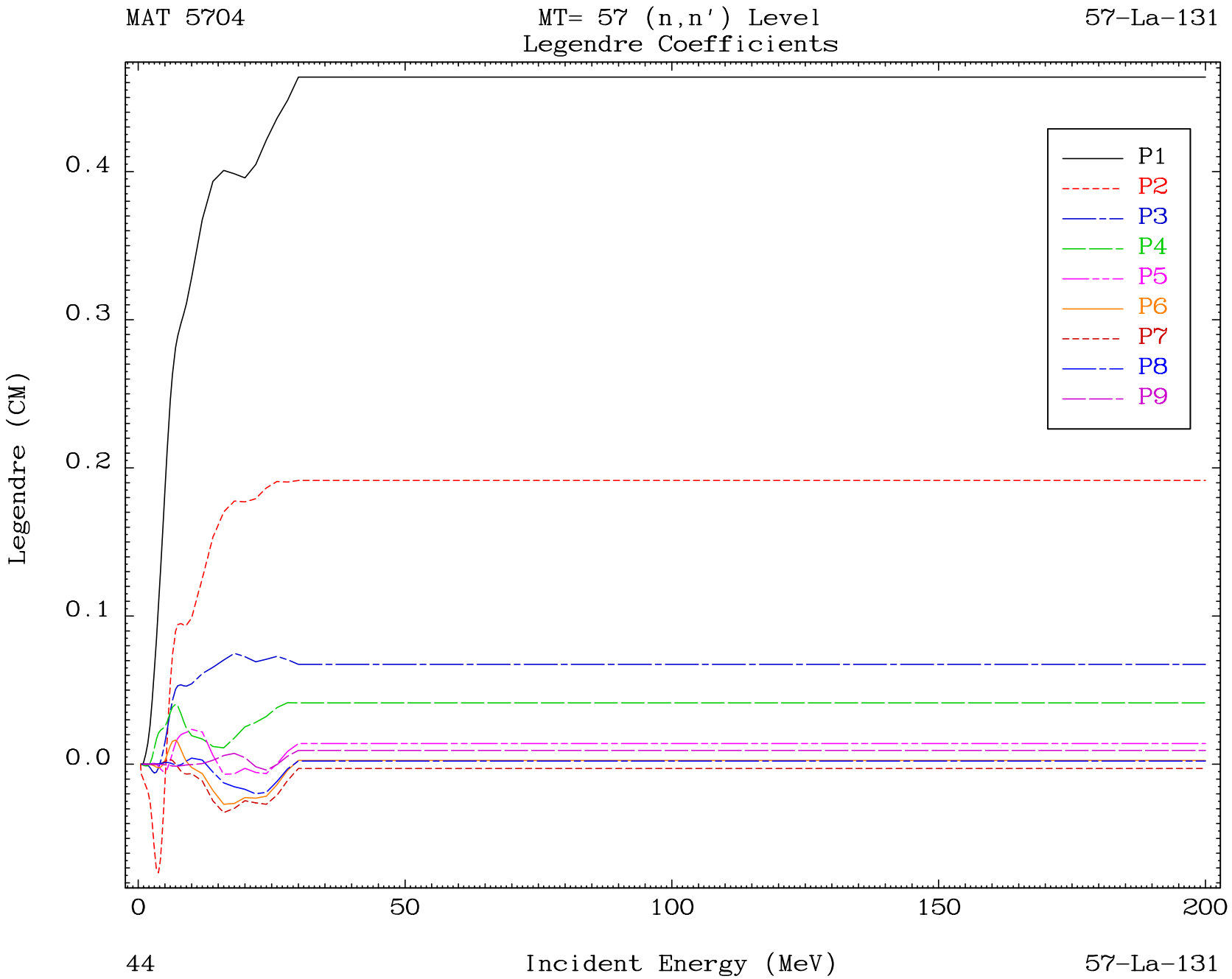

MAT 5704
MT= 55 (n,n') Level
Legendre Coefficients
57-La-131
X10 -6
5
4
3
2
1
0
Legendre (CM)
50
100
150
200
39
Incident Energy (MeV)
57-La-131
P28
P29
P30
P31
P32
P33
P34
P35
P36

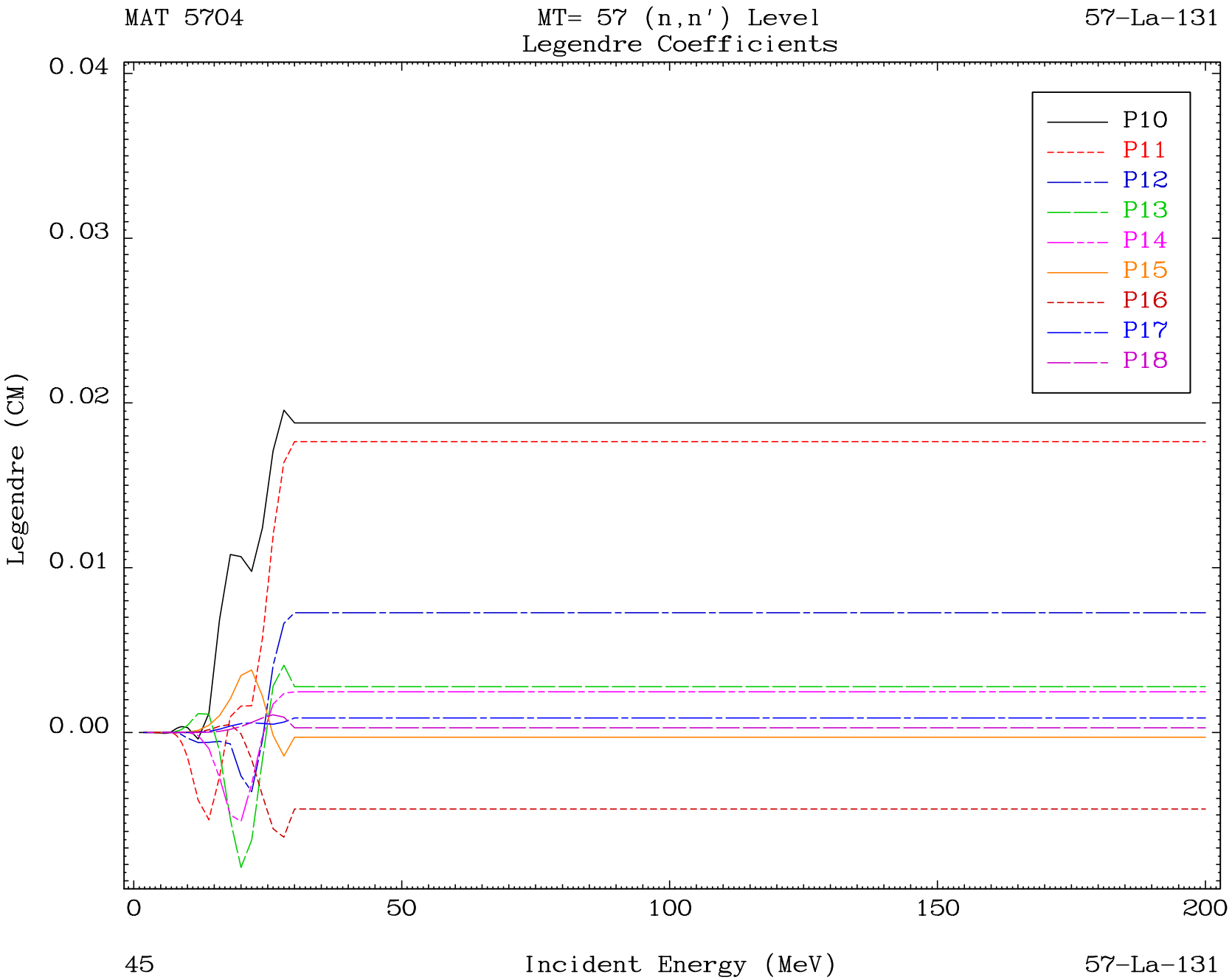

MAT 5704
MT= 56 (n,n') Level
Legendre Coefficients
57-La-131
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
40
Incident Energy (MeV)
57-La-131

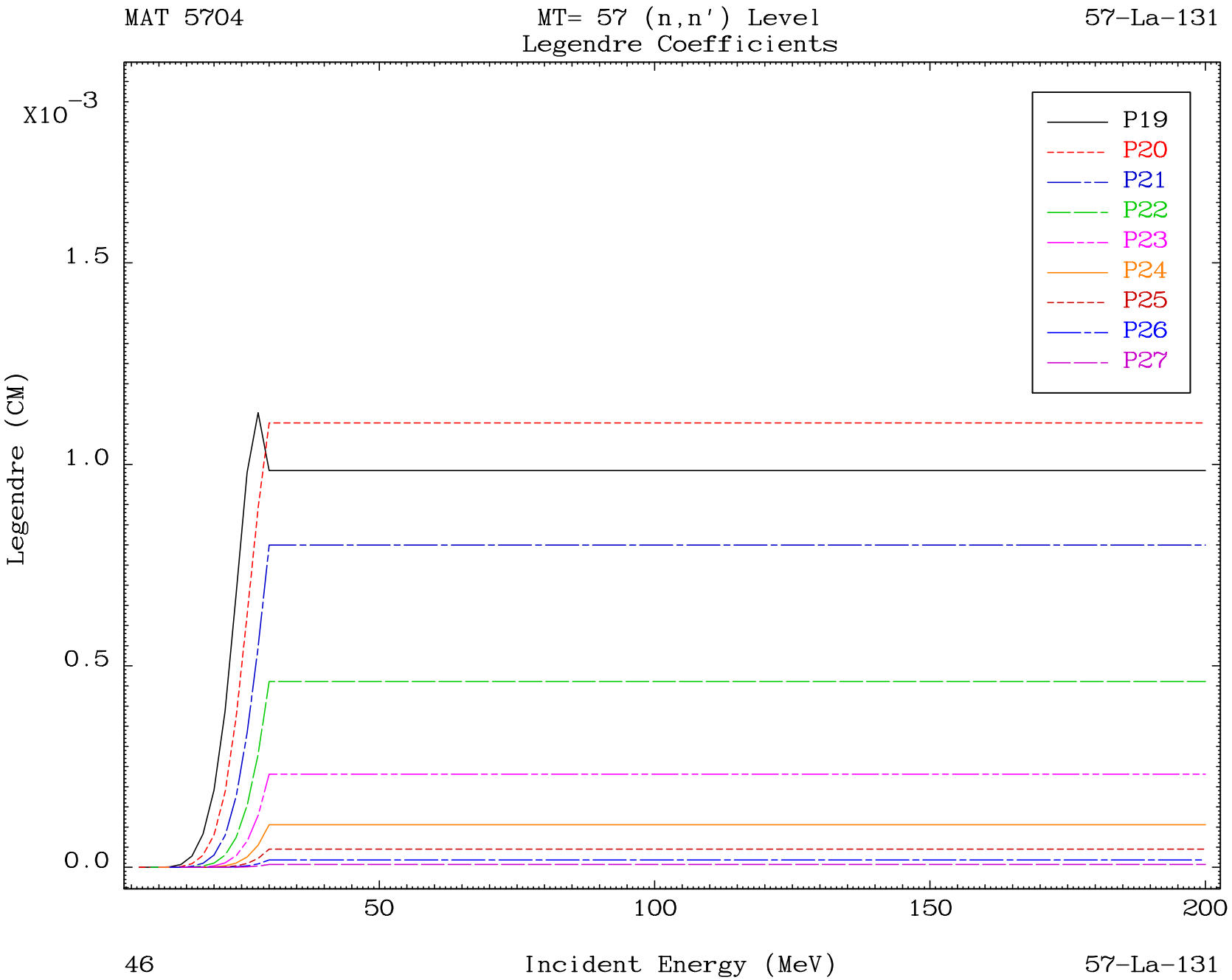

MAT 5704
MT= 56 (n,n') Level
Legendre Coefficients
57-La-131
0.004
0.002
0.000
−0.002
−0.004
−0.006
−0.008
Legendre_l (CM)
0
50
100
150
200
41
Incident Energy (MeV)
57-La-131
P10
P11
P12
P13
P14
P15
P16
P17
P18

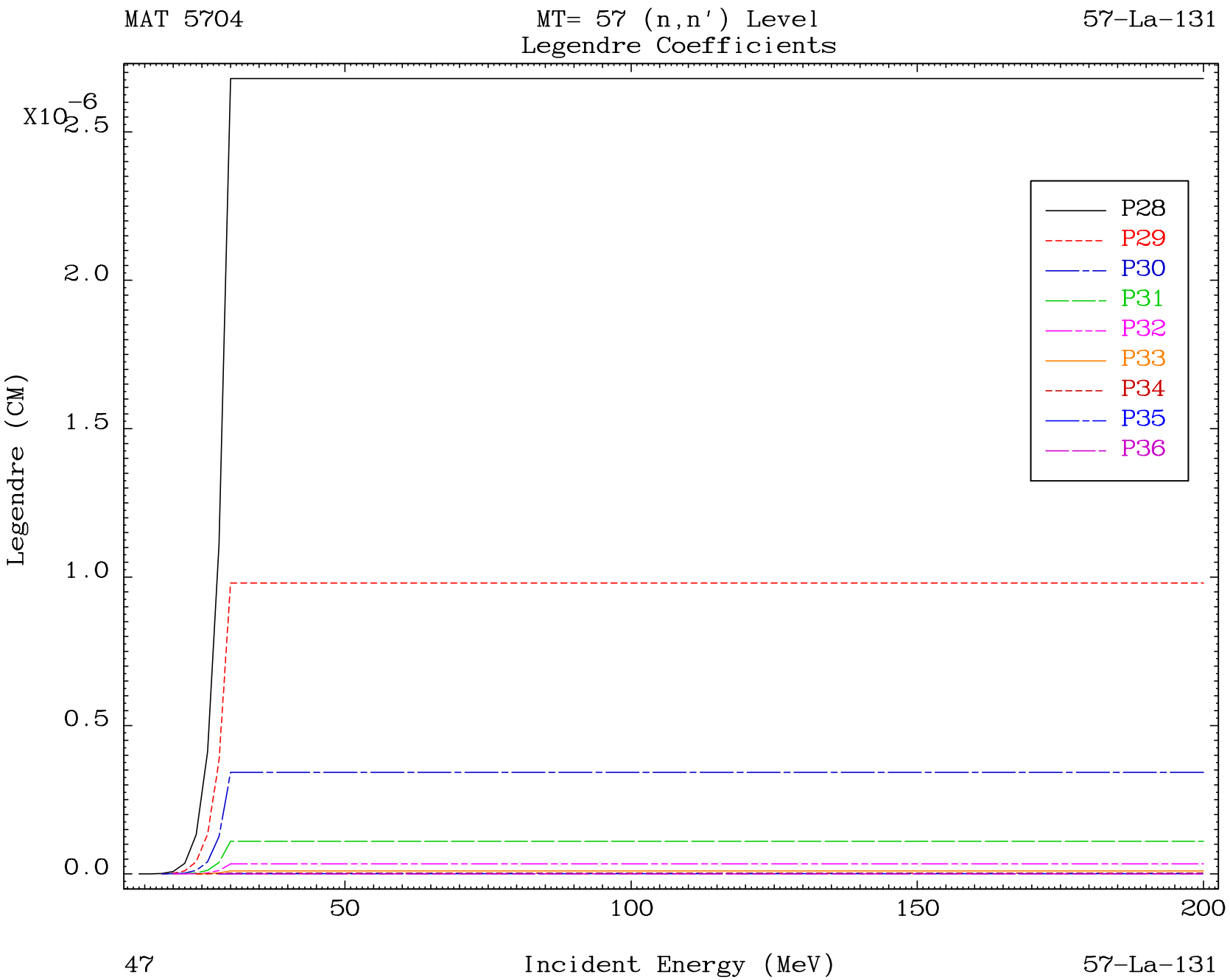

MAT 5704
MT= 56 (n,n') Level
Legendre Coefficients
57-La-131
X10^-4
0.0
-0.5
-1.0
-1.5
-2.0
Legendre (CM)
50
100
150
200
Incident Energy (MeV)
42
57-La-131
P19
P20
P21
P22
P23
P24
P25
P26
P27

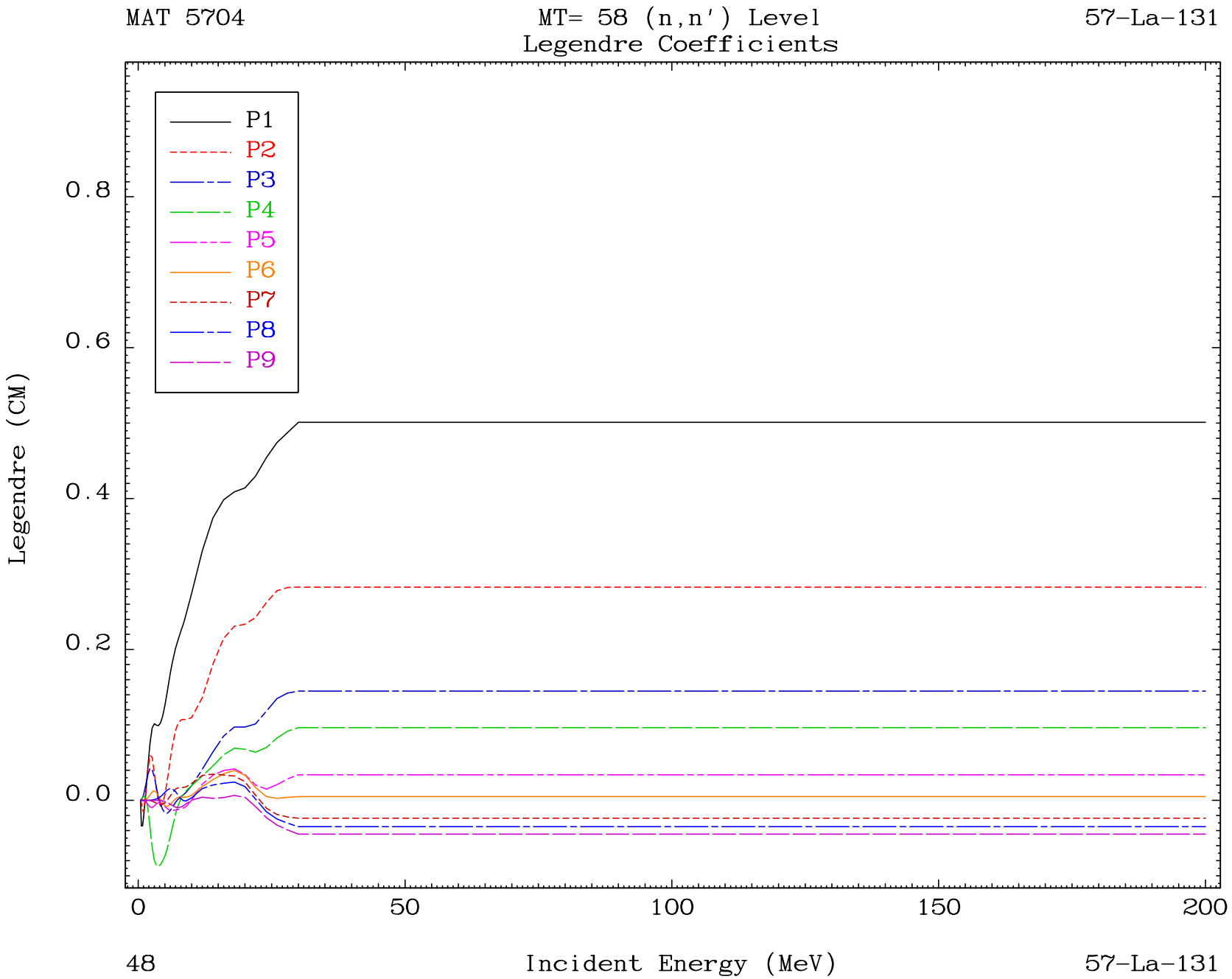

MAT 5704
MT= 56 (n,n') Level
Legendre Coefficients
57-La-131
X10^-7
5
4
3
2
1
0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
43
Incident Energy (MeV)
57-La-131

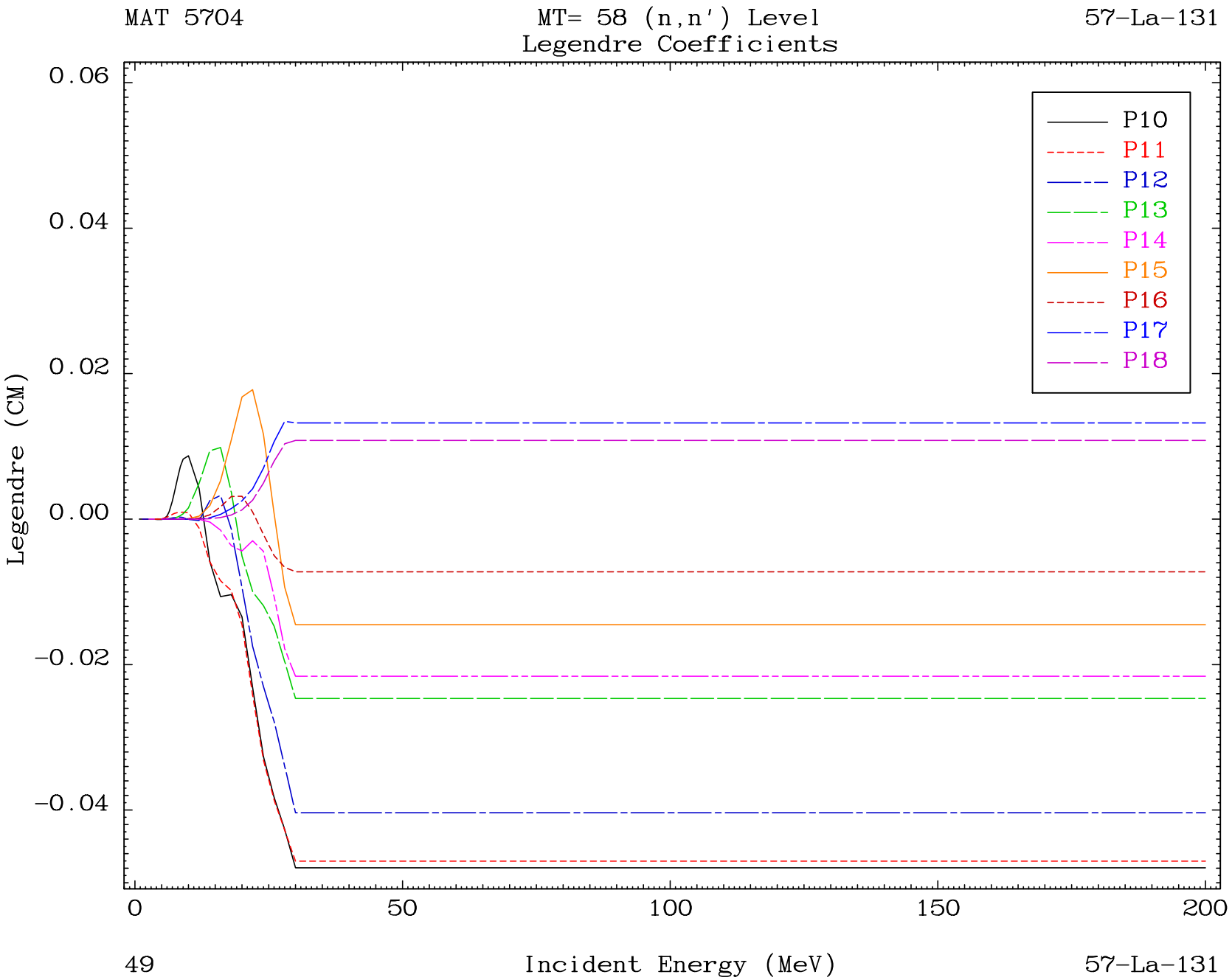

MAT 5704
MT= 57 (n,n') Level
Legendre Coefficients
57-La-131
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
44
Incident Energy (MeV)
57-La-131

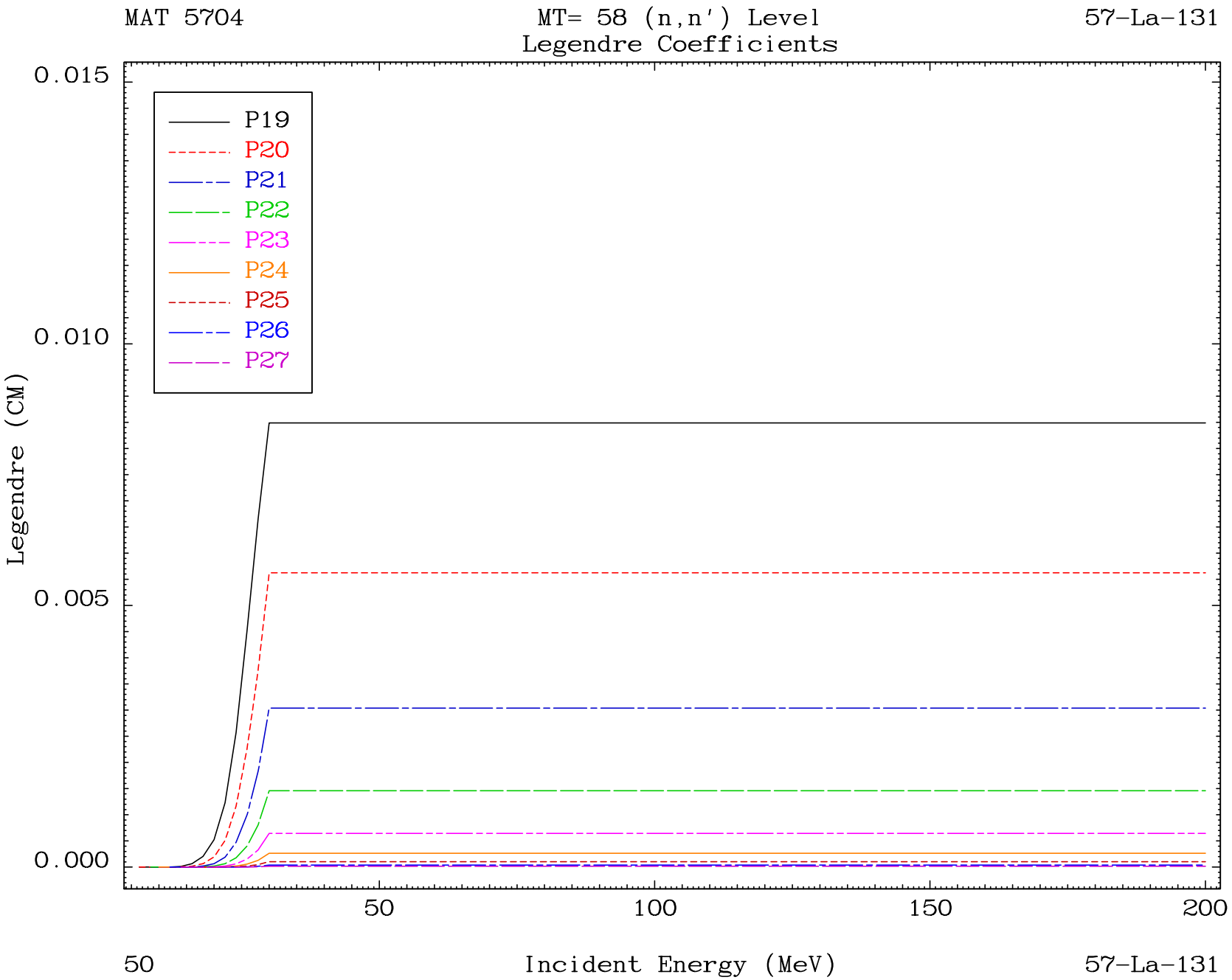

MAT 5704
MT= 57 (n,n') Level
Legendre Coefficients
57-La-131
0.04
0.03
0.02
0.01
0.00
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
45
Incident Energy (MeV)
57-La-131

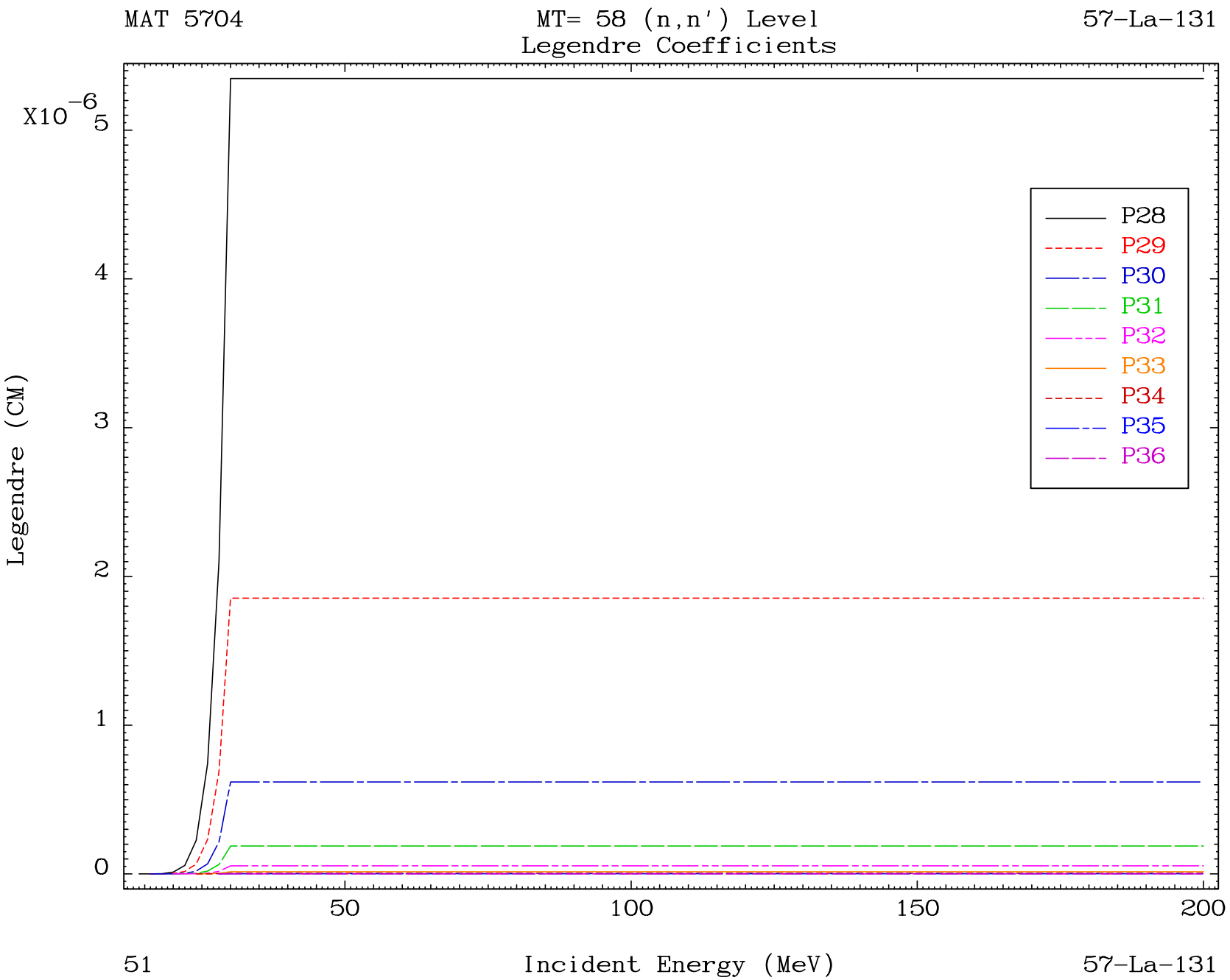

MAT 5704
MT= 57 (n,n') Level
Legendre Coefficients
57-La-131
X10^-3
1.5
1.0
0.5
0.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
46
Incident Energy (MeV)
57-La-131

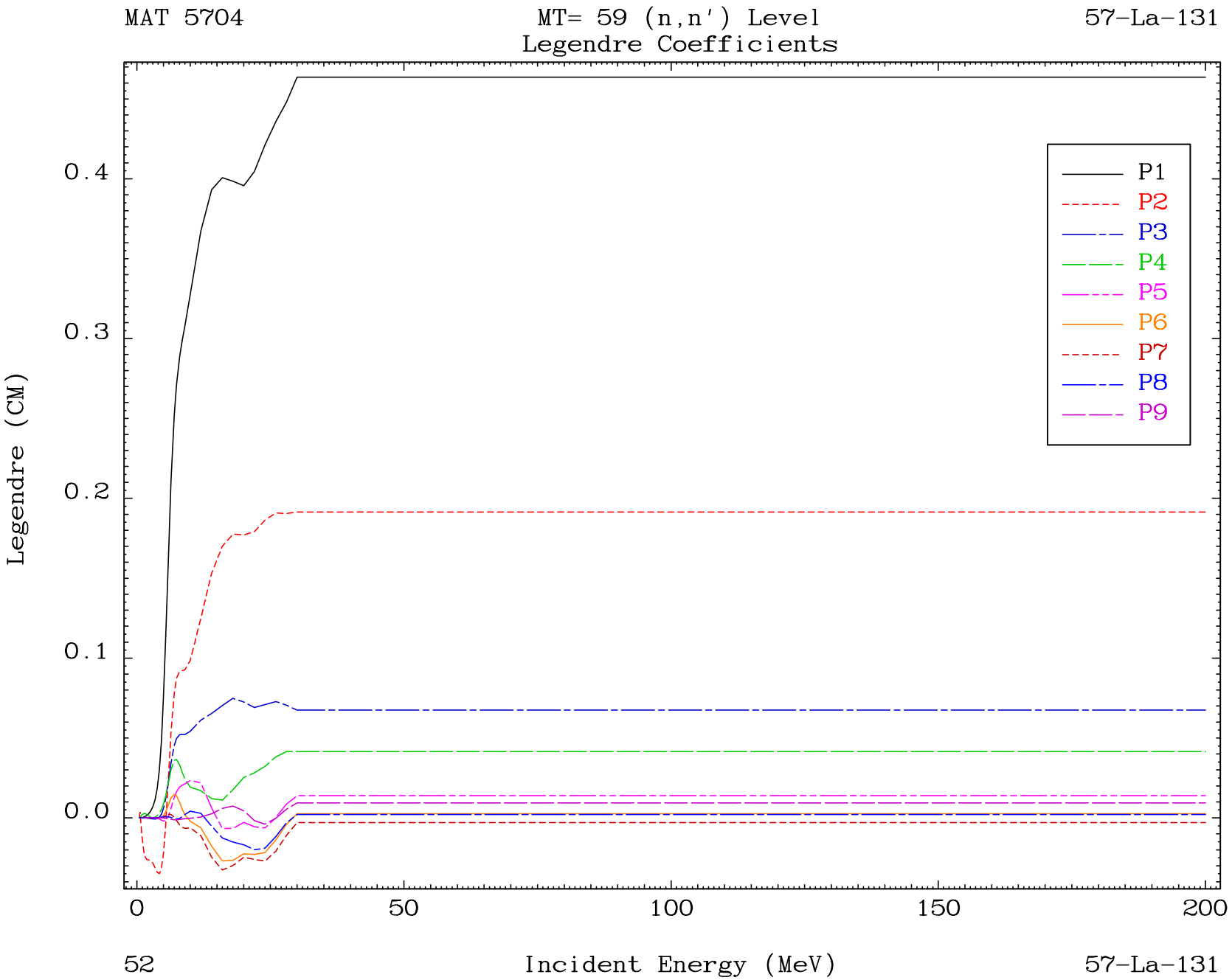

MAT 5704
MT= 57 (n,n') Level
Legendre Coefficients
57-La-131
X10 -6
2.5
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
P35
P36
50
100
150
200
47
Incident Energy (MeV)
57-La-131

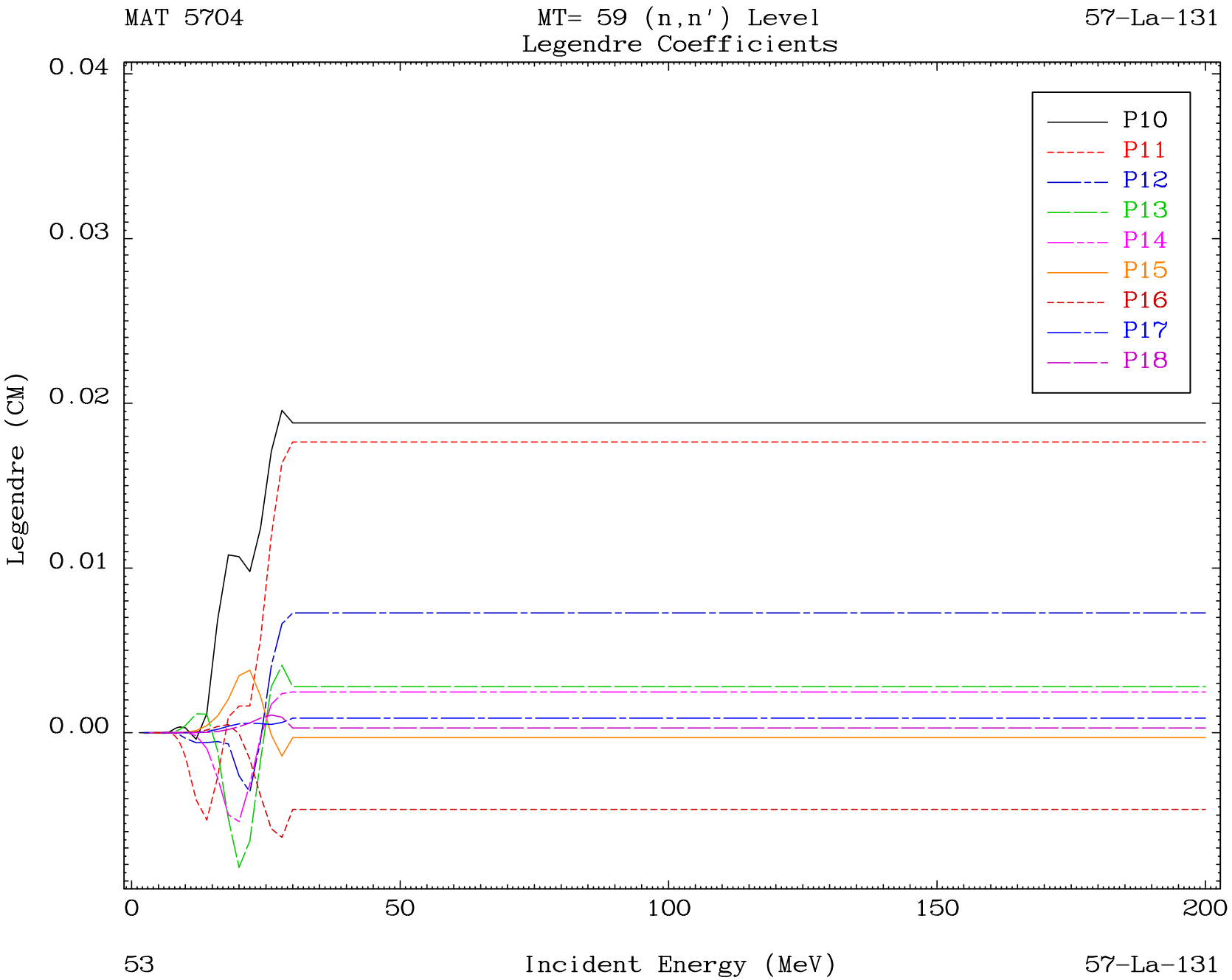

MAT 5704
MT= 58 (n,n') Level
Legendre Coefficients
57-La-131
P1
P2
P3
P4
P5
P6
P7
P8
P9
Legendre (CM)
0.8
0.6
0.4
0.2
0.0
0
50
100
150
200
48
Incident Energy (MeV)
57-La-131

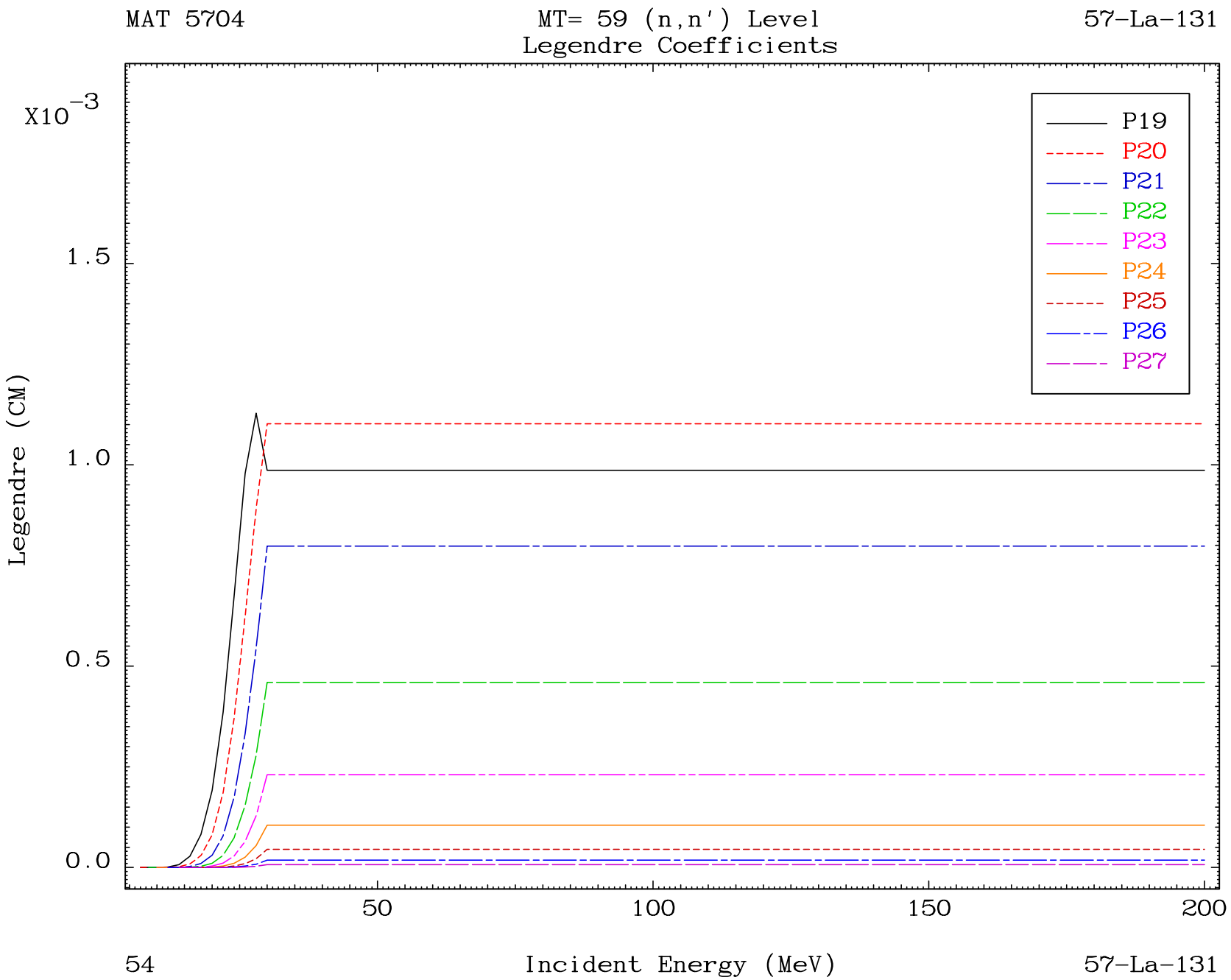

MAT 5704
MT= 58 (n,n') Level
Legendre Coefficients
57-La-131
0.06
0.04
0.02
0.00
-0.02
-0.04
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
49
Incident Energy (MeV)
57-La-131

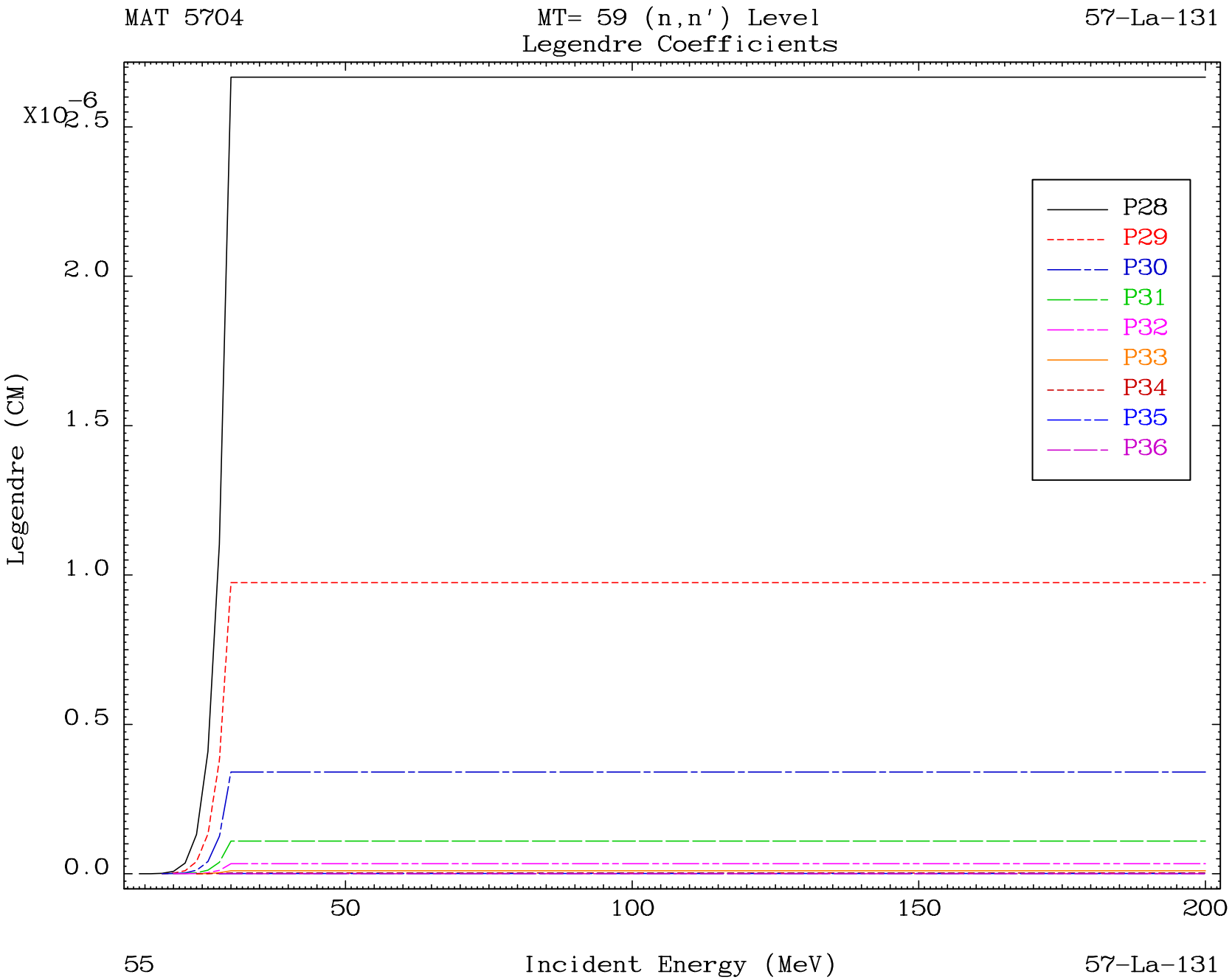

MAT 5704
MT= 58 (n,n') Level
Legendre Coefficients
57-La-131
P19
P20
P21
P22
P23
P24
P25
P26
P27
0.015
0.010
0.005
0.000
Legendre (CM)
50
100
150
200
50
Incident Energy (MeV)
57-La-131

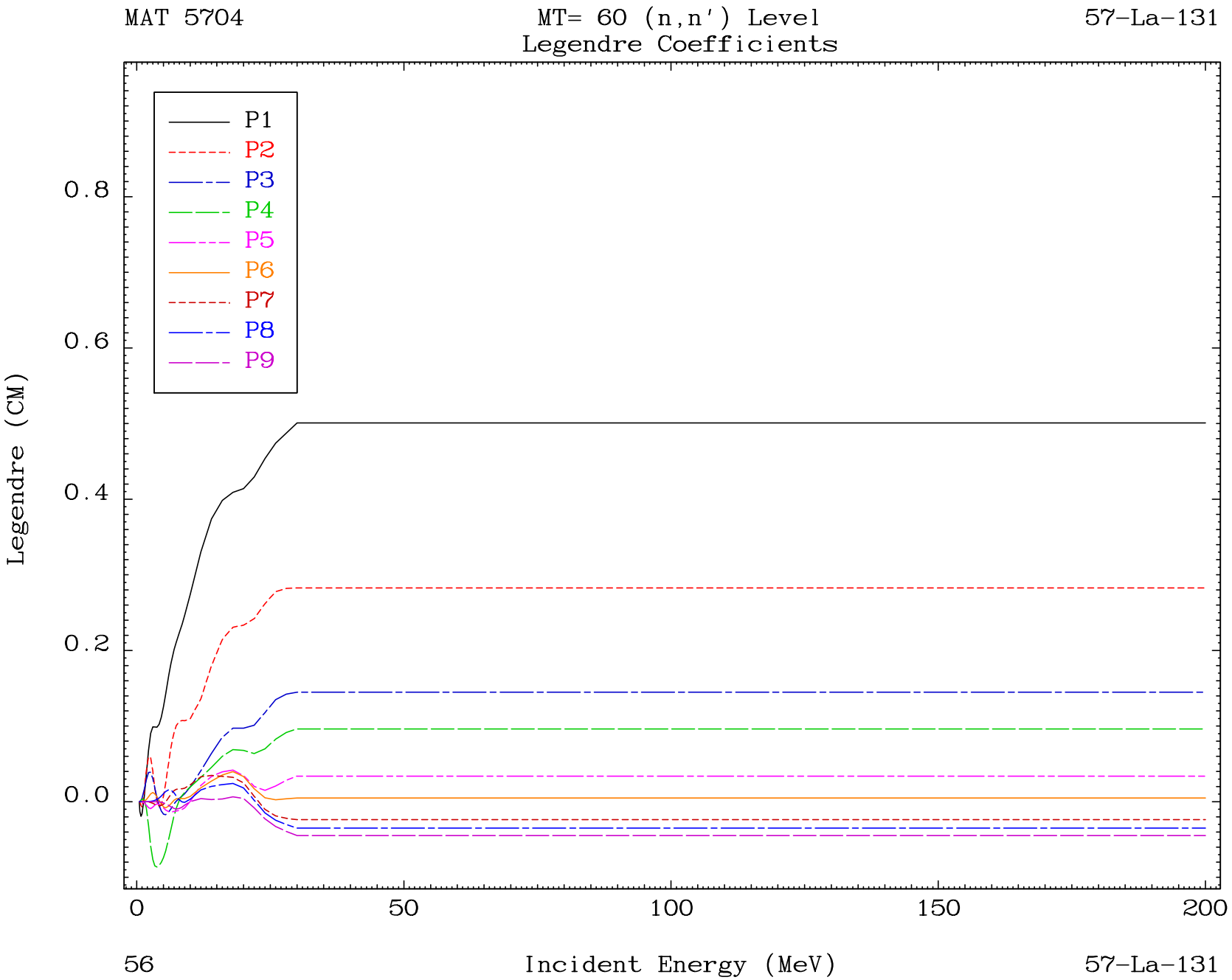

MAT 5704
MT= 58 (n,n') Level
Legendre Coefficients
57-La-131
X10 −6
5
4
3
2
1
0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
P35
P36
50
100
150
200
51
Incident Energy (MeV)
57-La-131

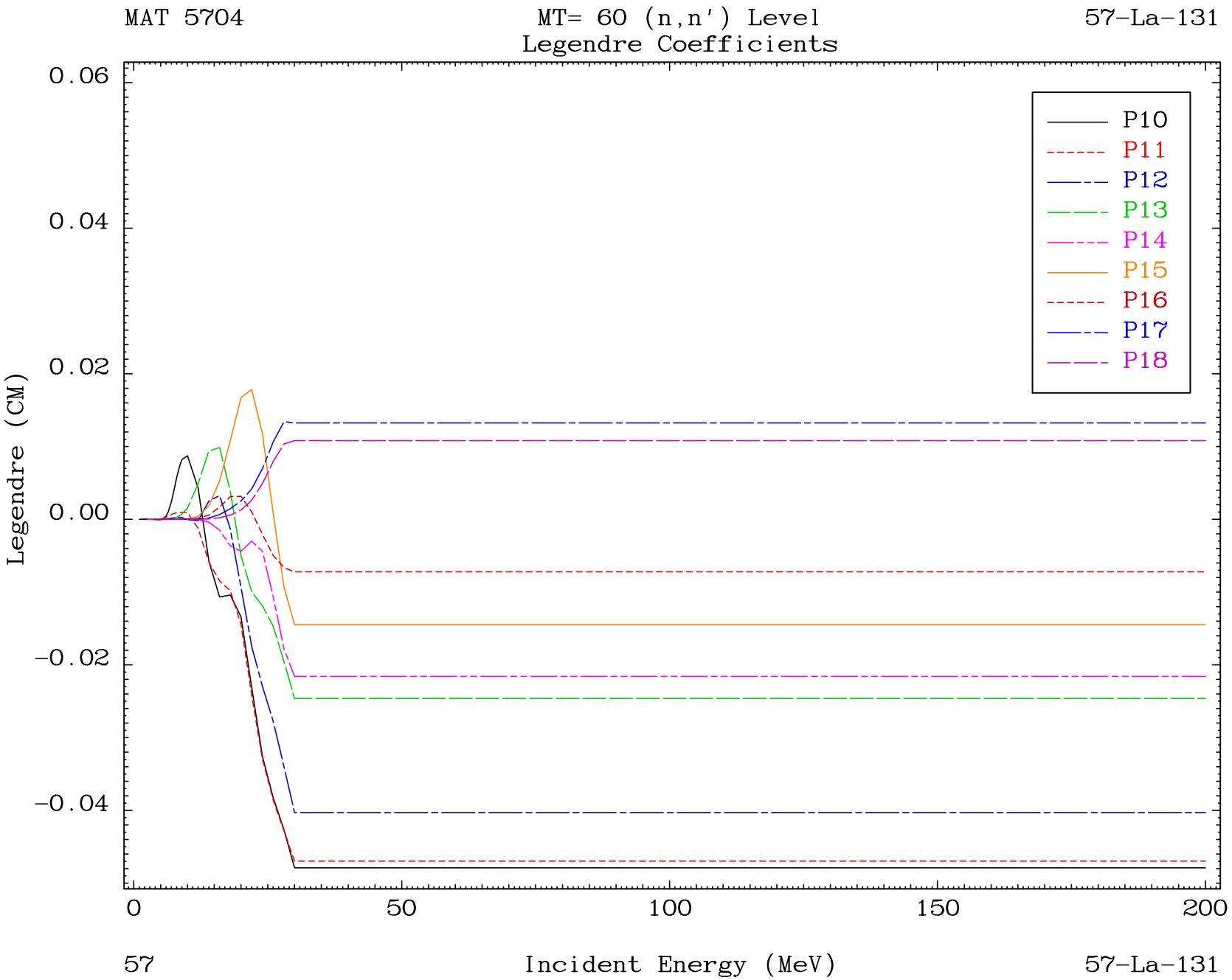

MAT 5704
MT= 59 (n,n') Level
Legendre Coefficients
57-La-131
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
52
Incident Energy (MeV)
57-La-131

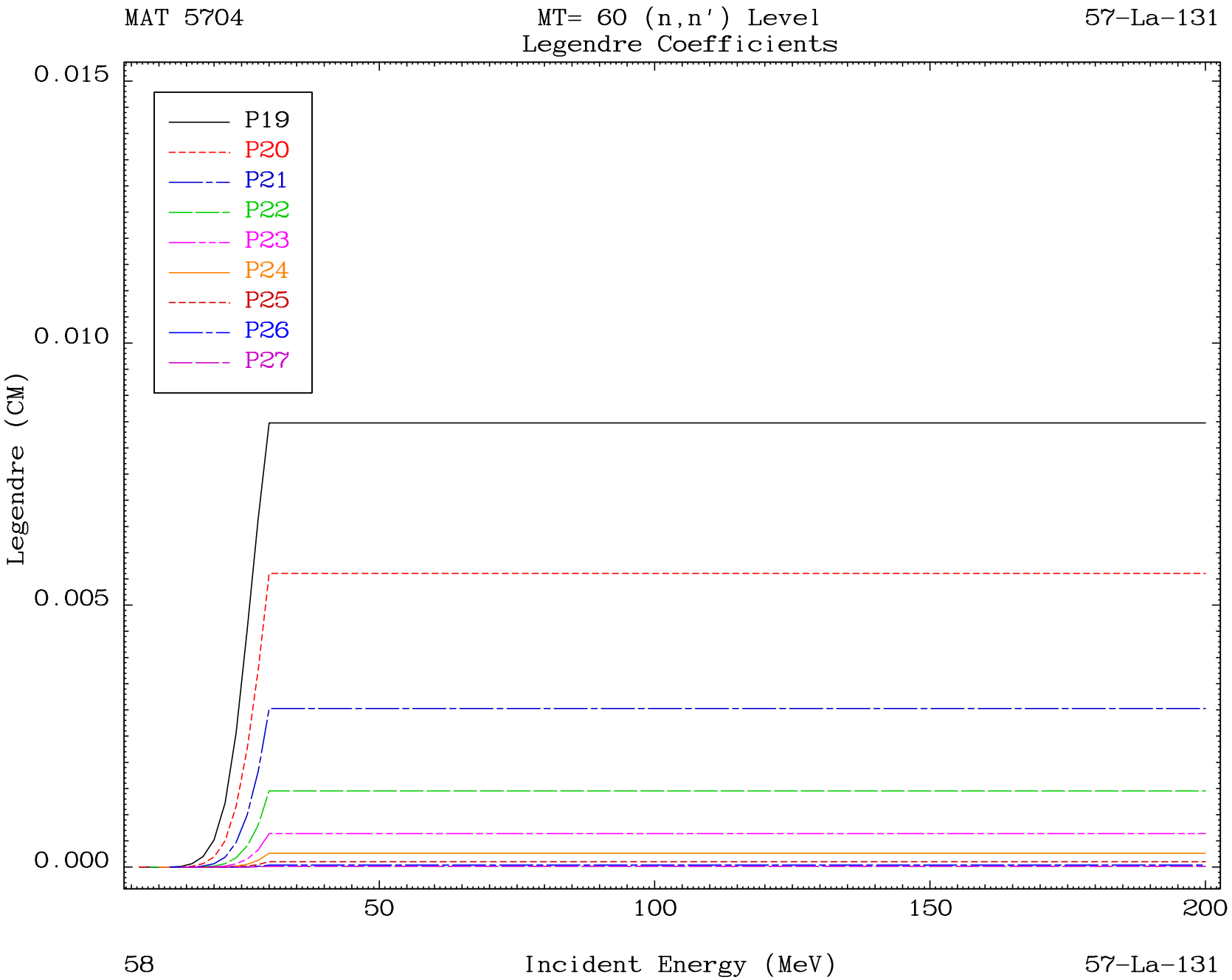

MAT 5704
MT= 59 (n,n') Level
Legendre Coefficients
57-La-131
0.04
0.03
0.02
0.01
0.00
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
53
Incident Energy (MeV)
57-La-131

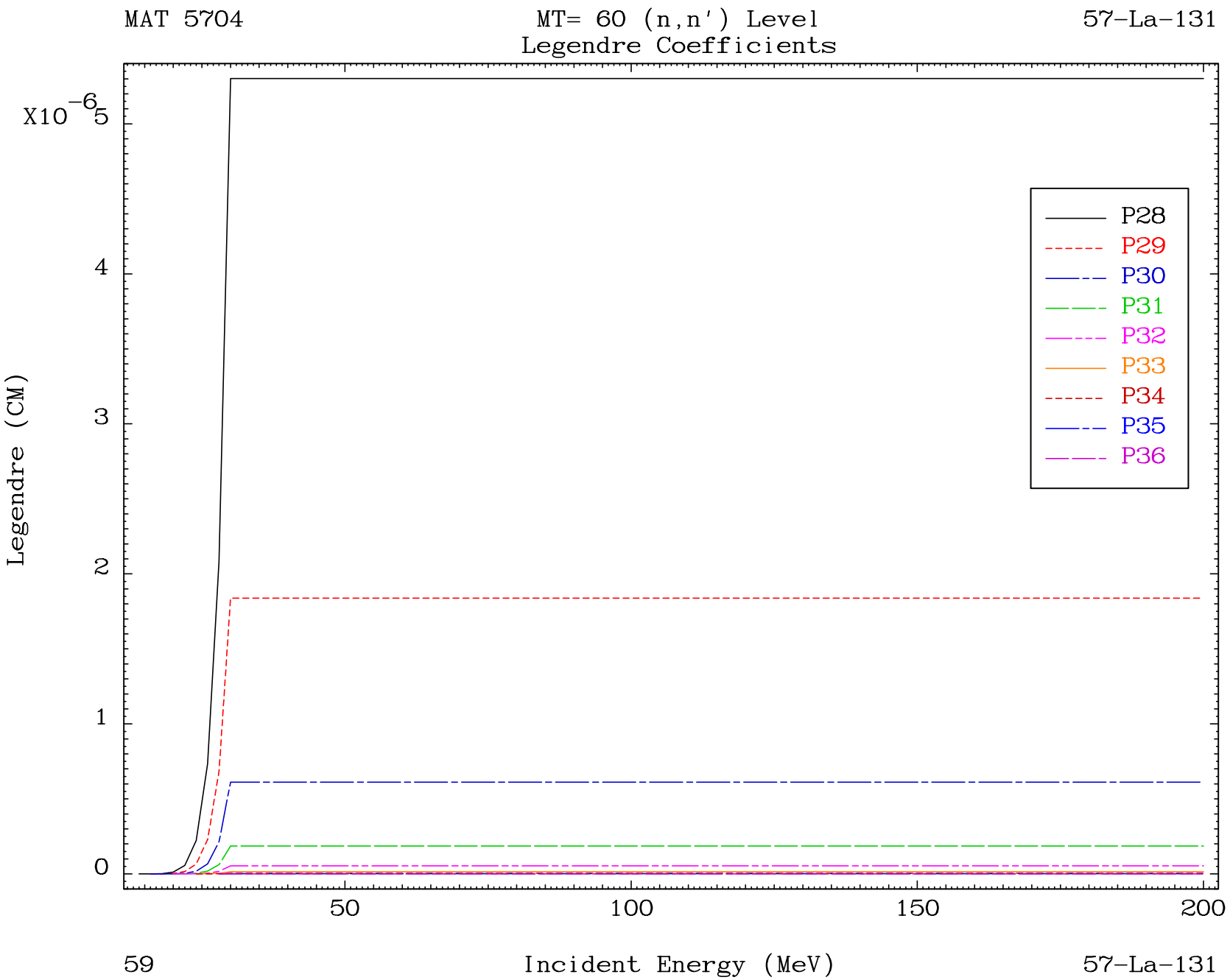

MAT 5704
MT= 59 (n,n') Level
Legendre Coefficients
57-La-131
X10^-3
1.5
1.0
0.5
0.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
54
Incident Energy (MeV)
57-La-131

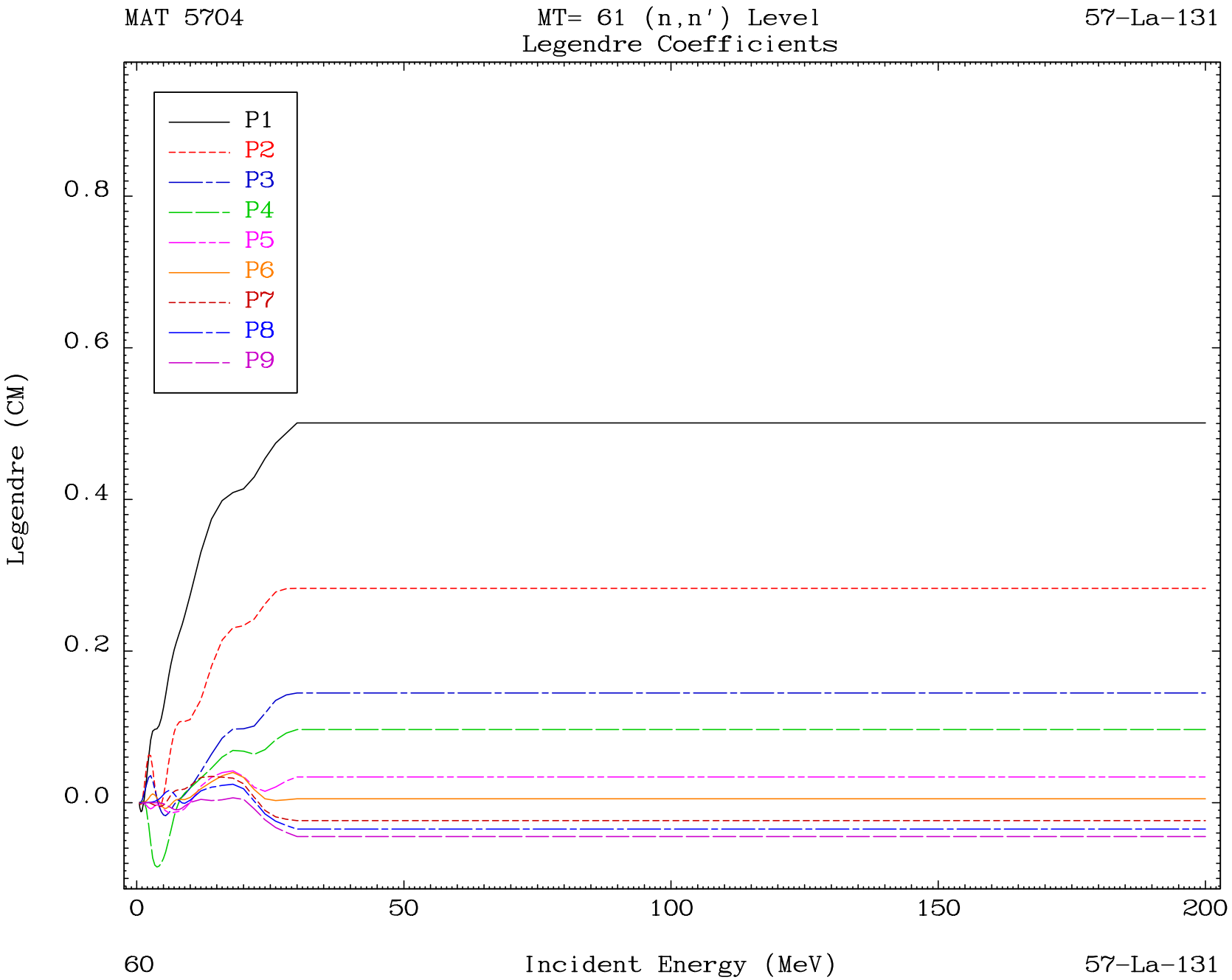

MAT 5704
MT= 59 (n,n') Level
Legendre Coefficients
57-La-131
X10-6
2.5
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
50
100
150
200
55
Incident Energy (MeV)
57-La-131
P28
P29
P30
P31
P32
P33
P34
P35
P36

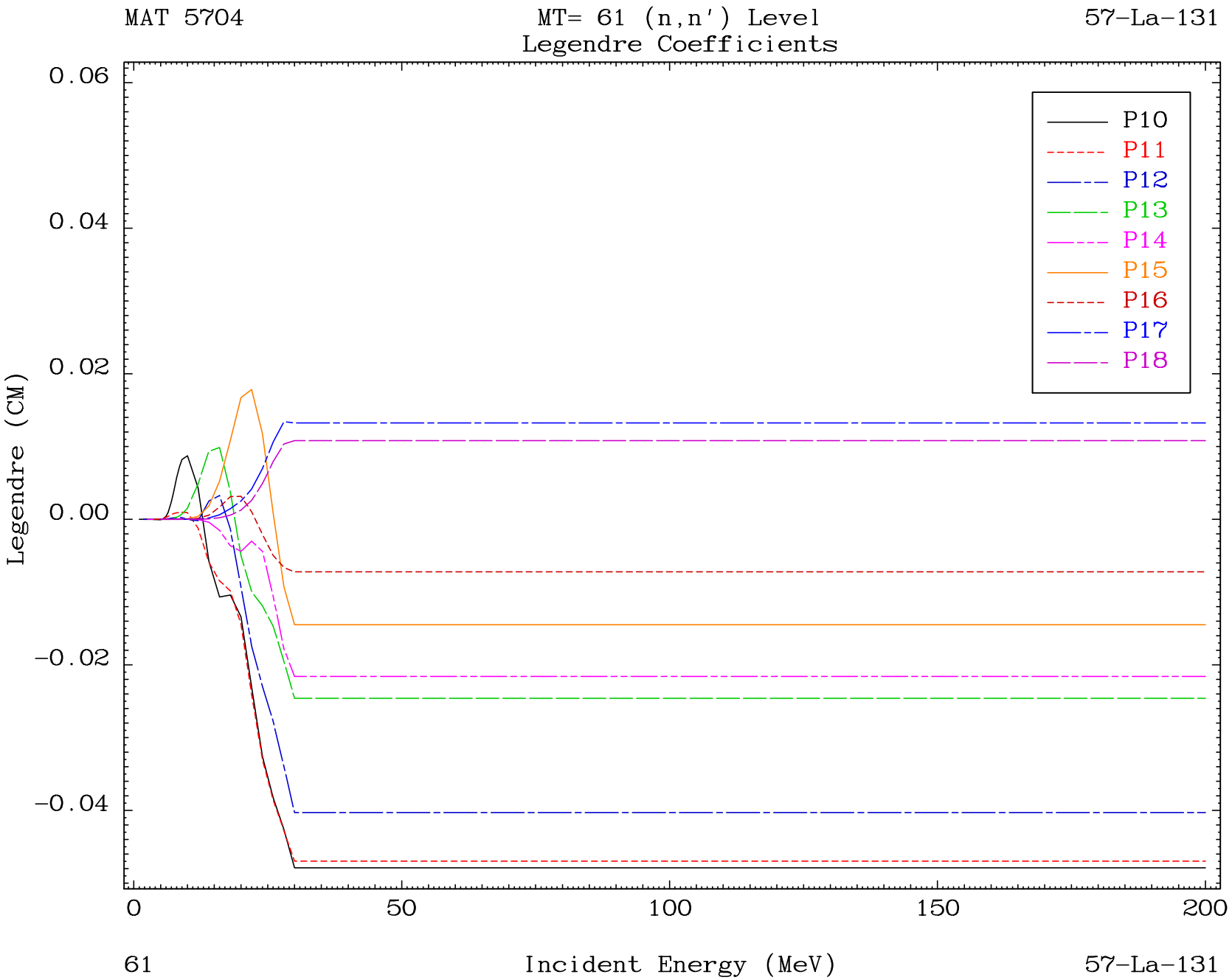

MAT 5704
MT= 60 (n,n') Level
Legendre Coefficients
57-La-131
P1
P2
P3
P4
P5
P6
P7
P8
P9
Legendre (CM)
0.8
0.6
0.4
0.2
0.0
0
50
100
150
200
56
Incident Energy (MeV)
57-La-131

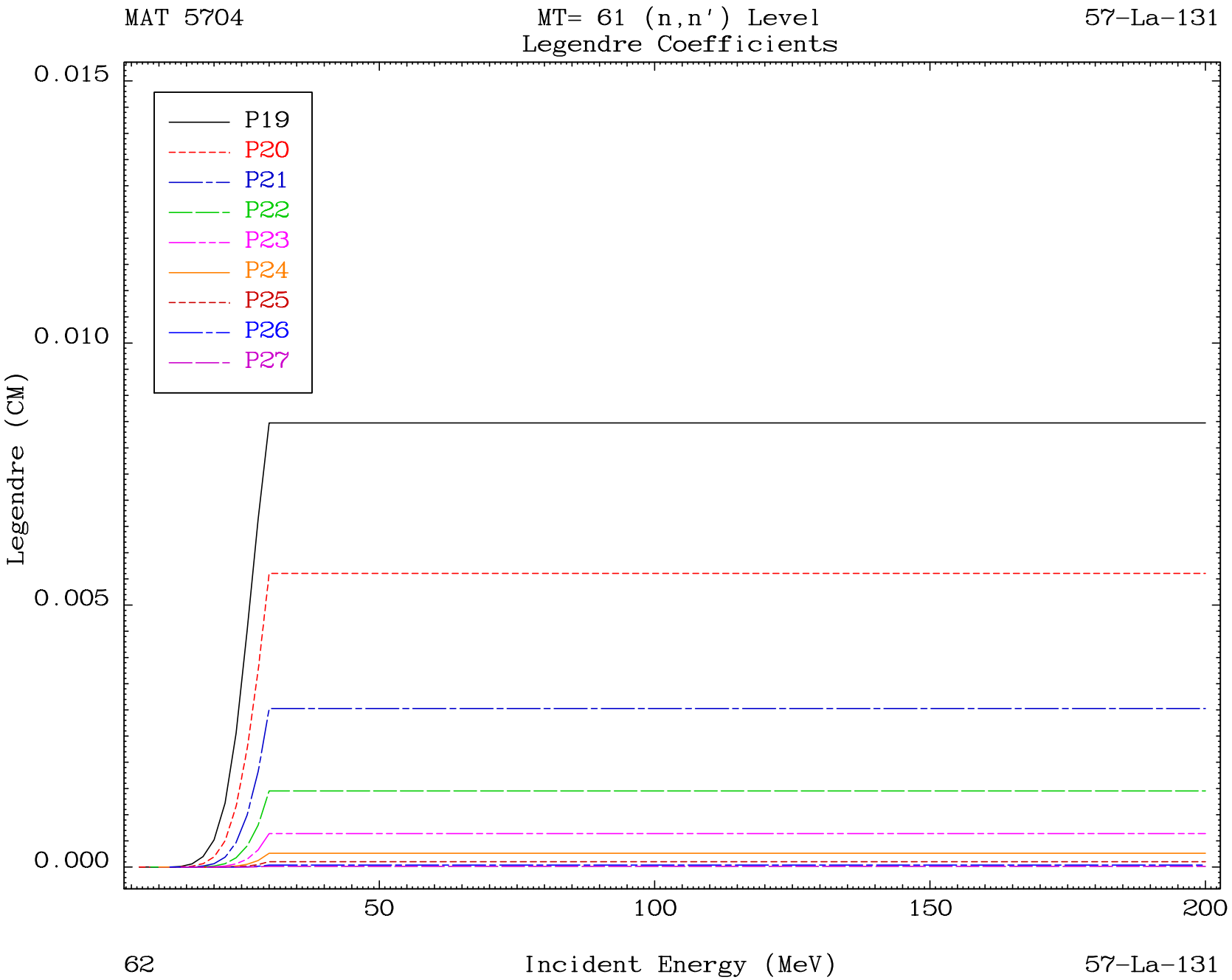

MAT 5704
MT= 60 (n,n') Level
Legendre Coefficients
57-La-131
0.06
0.04
0.02
0.00
-0.02
-0.04
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
57
Incident Energy (MeV)
57-La-131

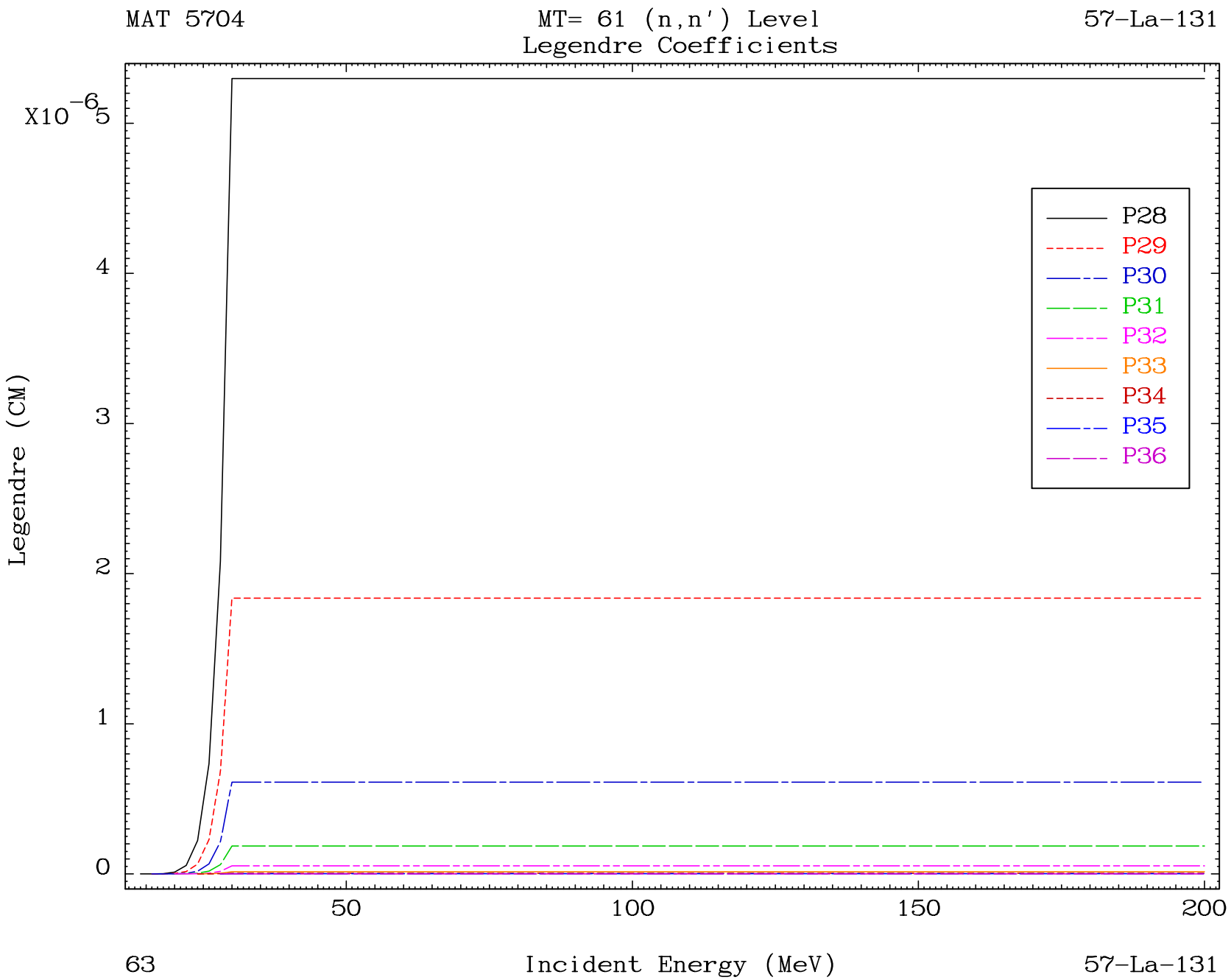

MAT 5704
MT= 60 (n,n') Level
Legendre Coefficients
57-La-131
P19
P20
P21
P22
P23
P24
P25
P26
P27
0.015
0.010
0.005
0.000
Legendre (CM)
50
100
150
200
58
Incident Energy (MeV)
57-La-131

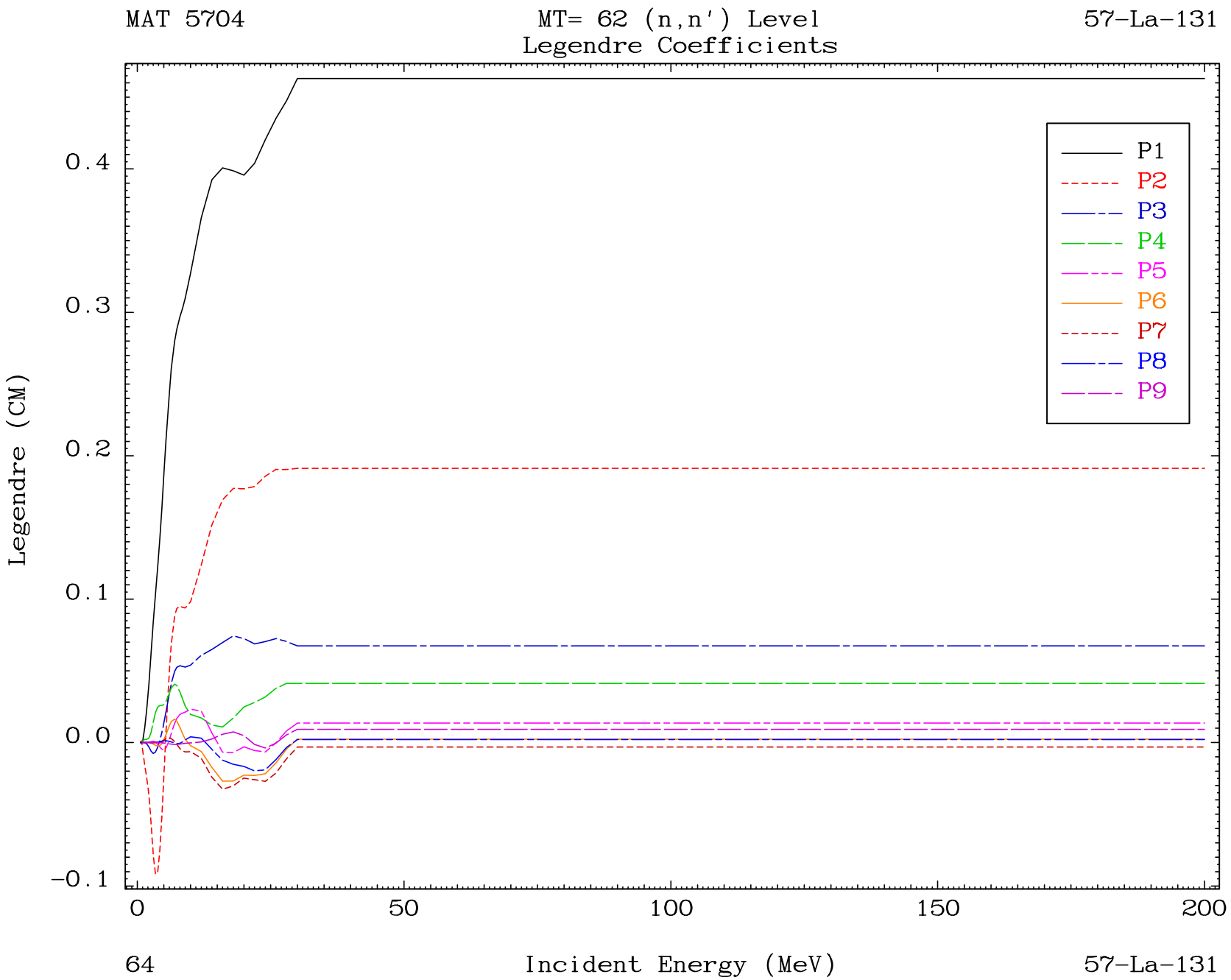

MAT 5704
MT= 60 (n,n') Level
Legendre Coefficients
57-La-131
X10 -6
5
4
3
2
1
0
Legendre (CM)
50
100
150
200
59
Incident Energy (MeV)
57-La-131
P28
P29
P30
P31
P32
P33
P34
P35
P36

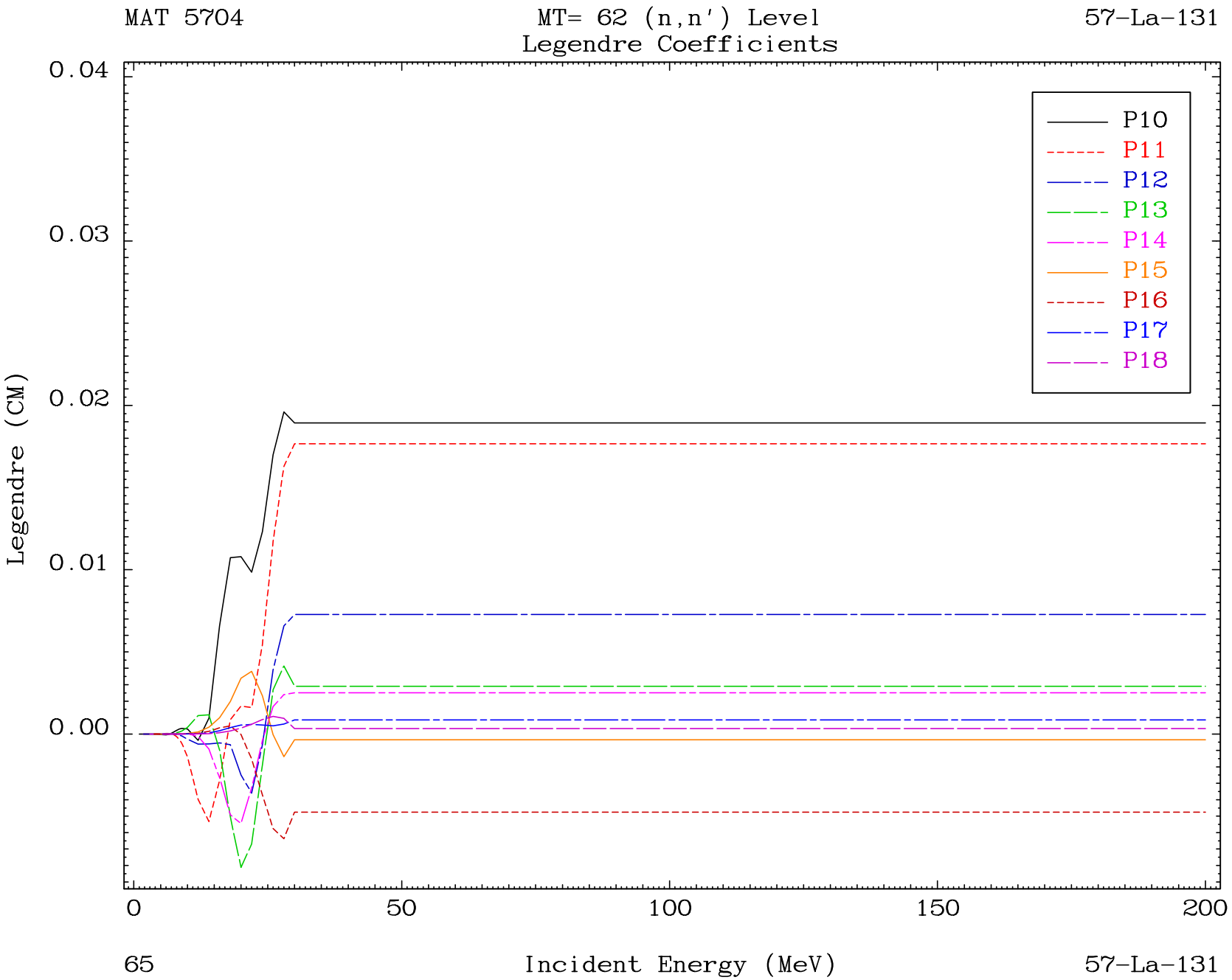

MAT 5704
MT= 61 (n,n') Level
Legendre Coefficients
57-La-131
P1
P2
P3
P4
P5
P6
P7
P8
P9
Legendre (CM)
0.8
0.6
0.4
0.2
0.0
0
50
100
150
200
60
Incident Energy (MeV)
57-La-131

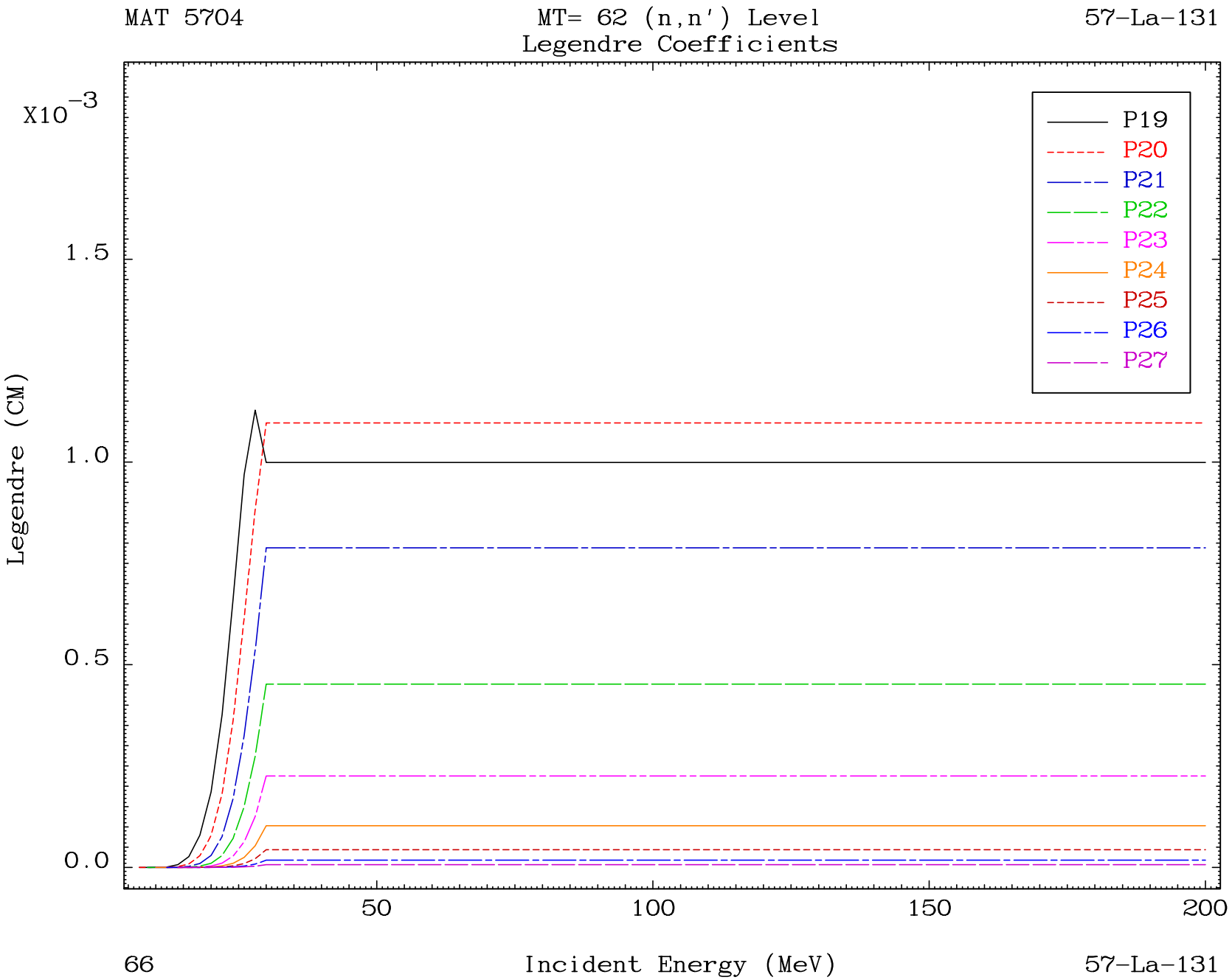

MAT 5704
MT= 61 (n,n') Level
Legendre Coefficients
57-La-131
0.06
0.04
0.02
0.00
-0.02
-0.04
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
61
Incident Energy (MeV)
57-La-131

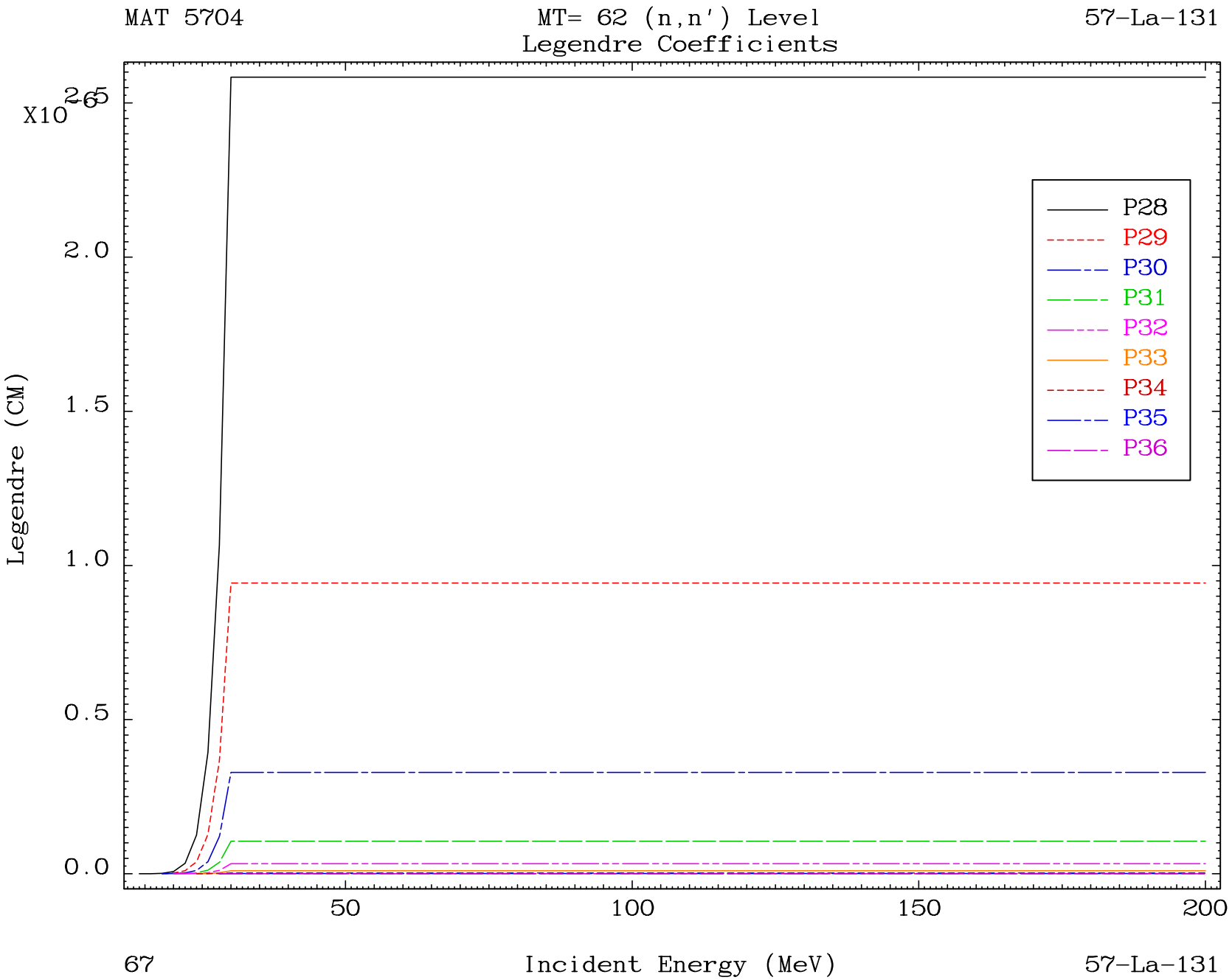

MAT 5704
MT= 61 (n,n') Level
Legendre Coefficients
57-La-131
P19
P20
P21
P22
P23
P24
P25
P26
P27
0.015
0.010
0.005
0.000
Legendre (CM)
50
100
150
200
62
Incident Energy (MeV)
57-La-131

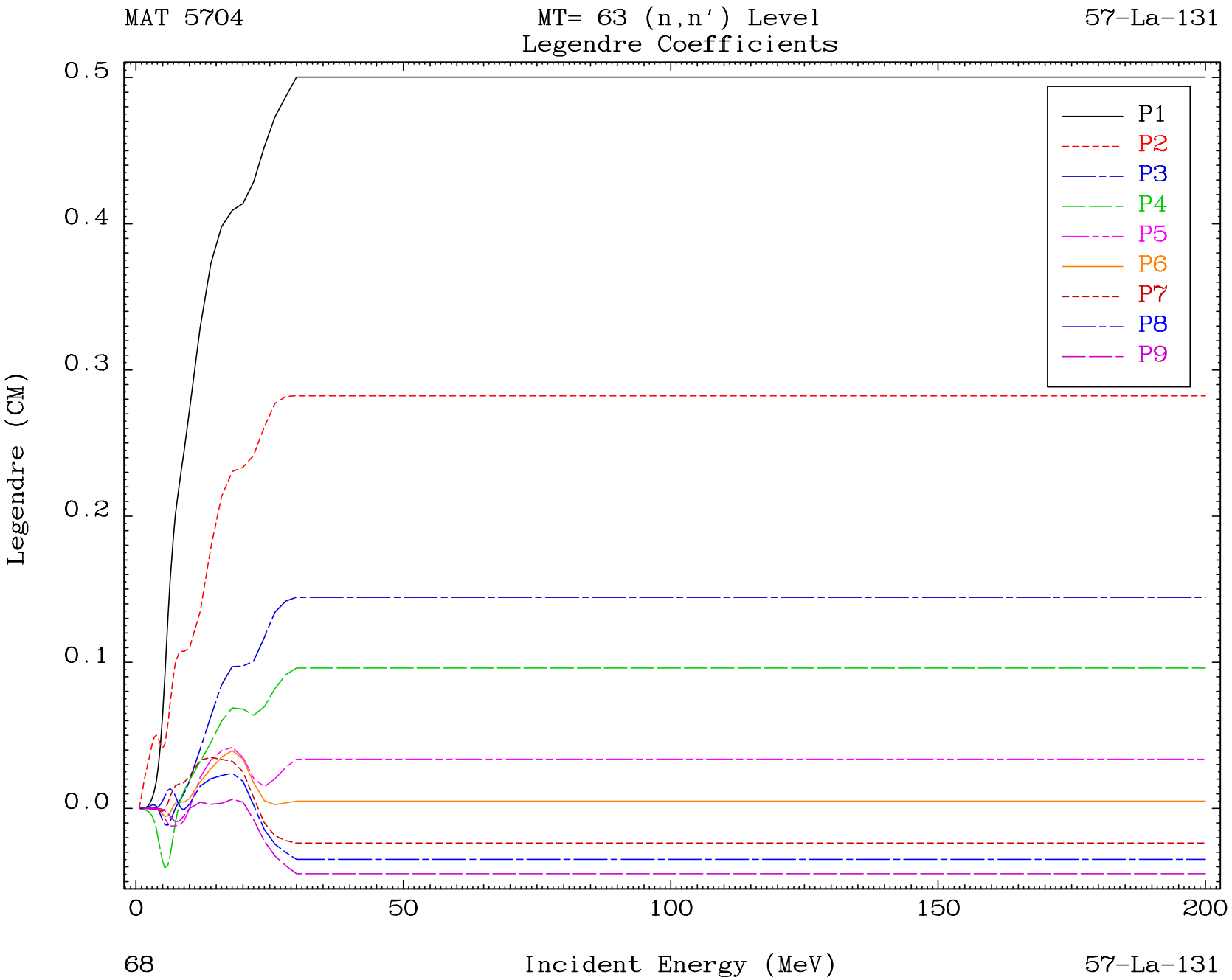

MAT 5704
MT= 61 (n,n') Level
Legendre Coefficients
57-La-131
X10 -6
5
4
3
2
1
0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
P35
P36
50
100
150
200
63
Incident Energy (MeV)
57-La-131

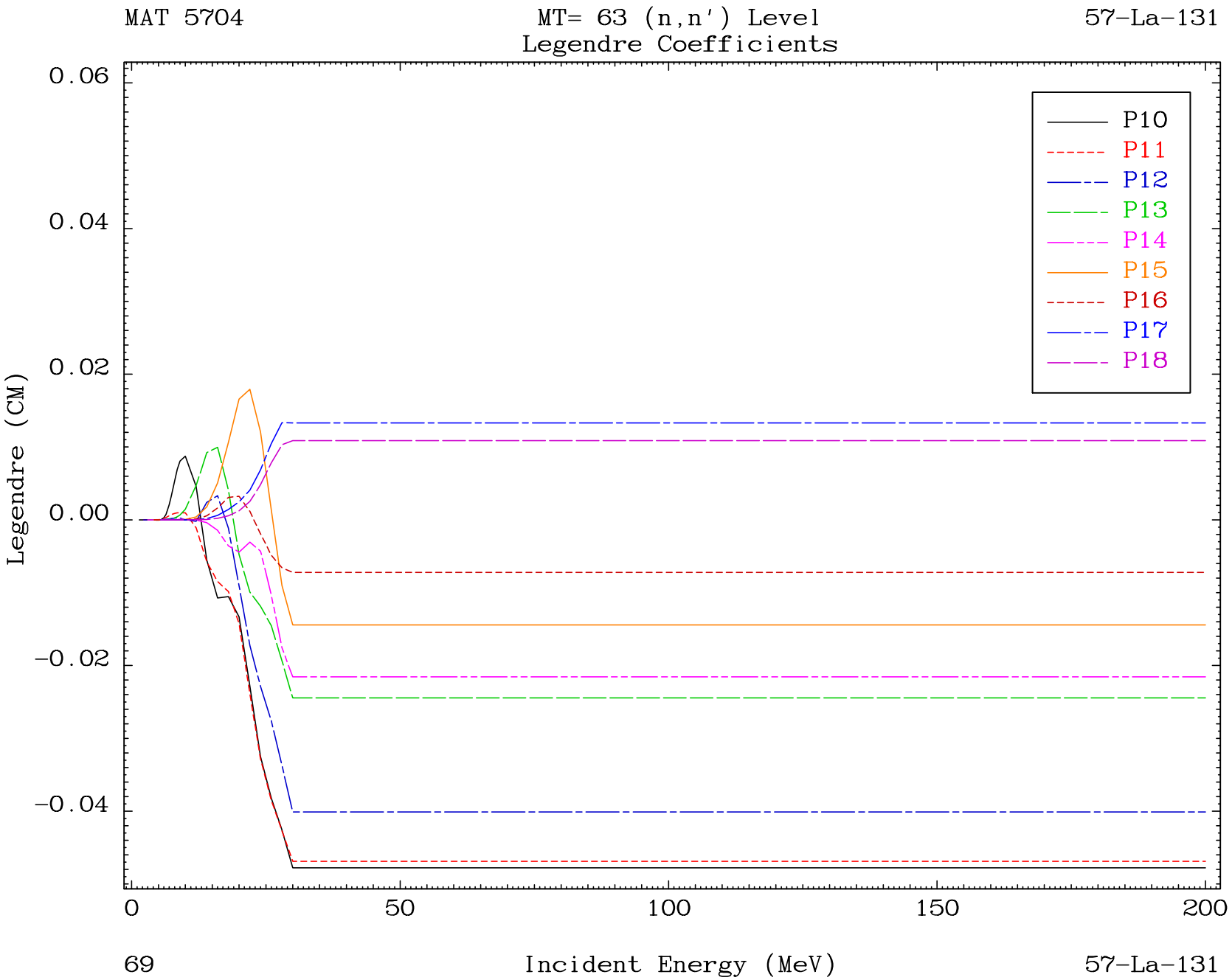

MAT 5704
MT= 62 (n,n') Level
Legendre Coefficients
57-La-131
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
-0.1
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
64
Incident Energy (MeV)
57-La-131

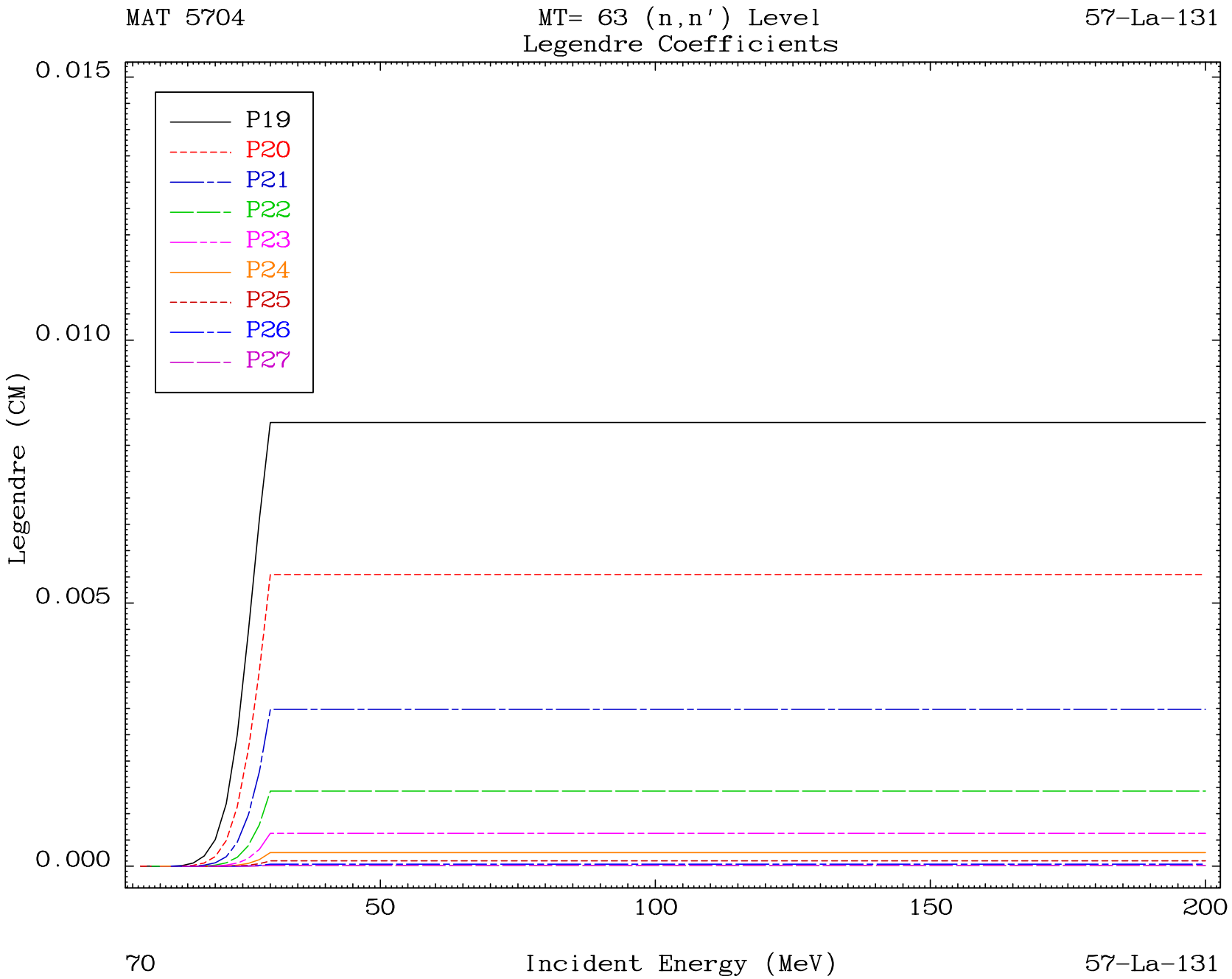

MAT 5704
MT= 62 (n,n') Level
Legendre Coefficients
57-La-131
0.04
0.03
0.02
0.01
0.00
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
65
Incident Energy (MeV)
57-La-131

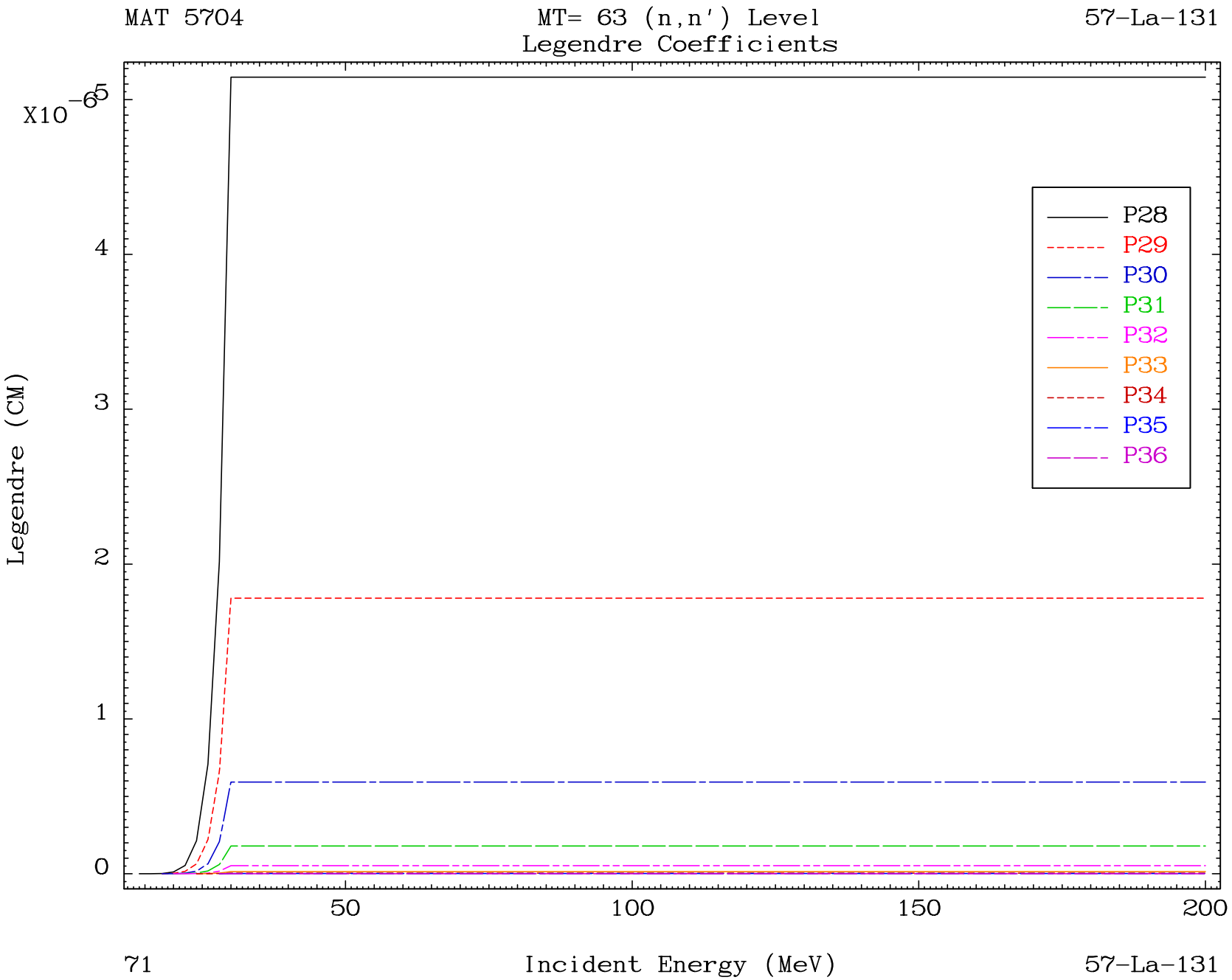

MAT 5704
MT= 62 (n,n') Level
Legendre Coefficients
57-La-131
X10-3
1.5
1.0
0.5
0.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
66
Incident Energy (MeV)
57-La-131

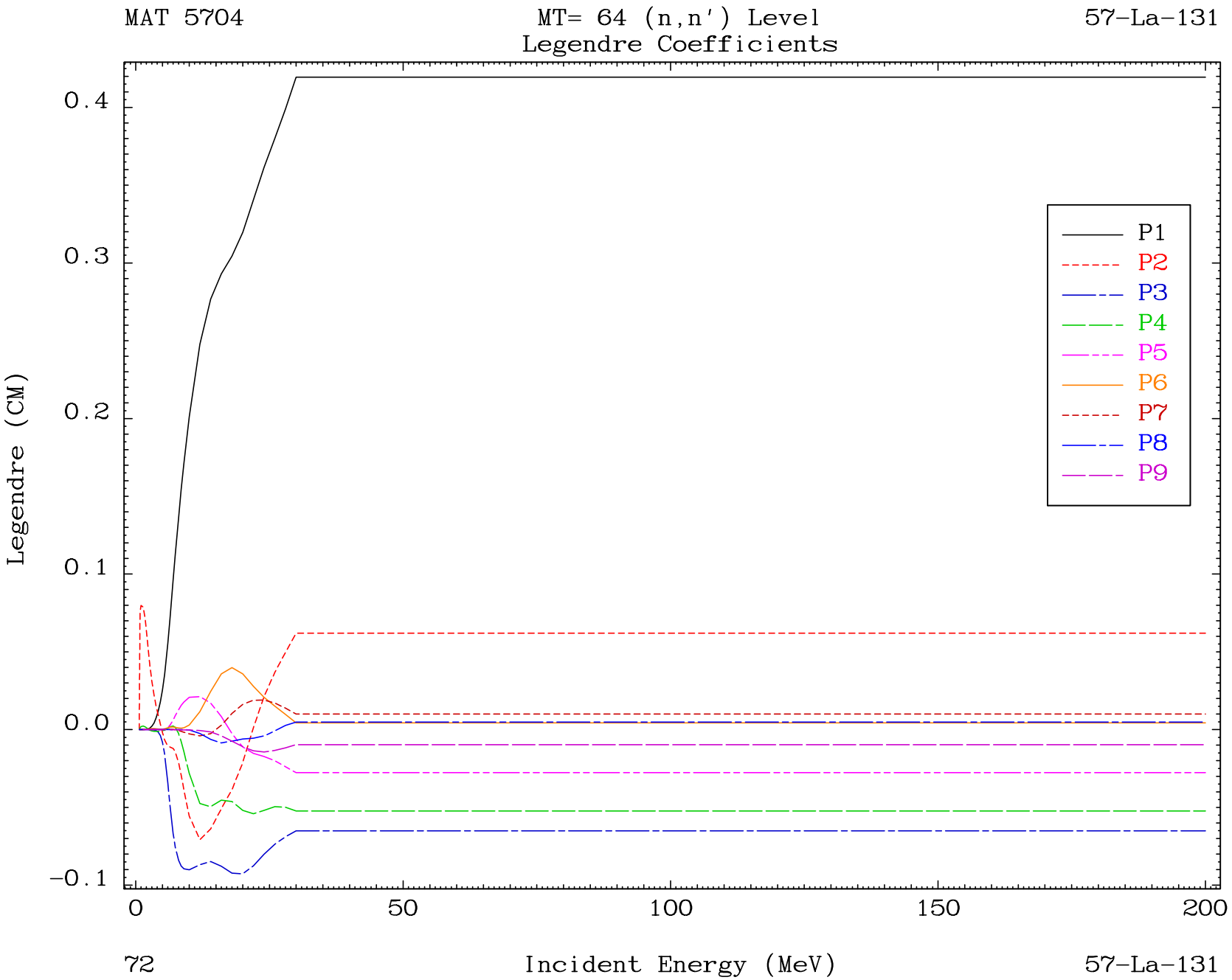

MAT 5704
MT= 62 (n,n') Level
Legendre Coefficients
57-La-131
X10-25
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
50
100
150
200
67
Incident Energy (MeV)
57-La-131
P28
P29
P30
P31
P32
P33
P34
P35
P36

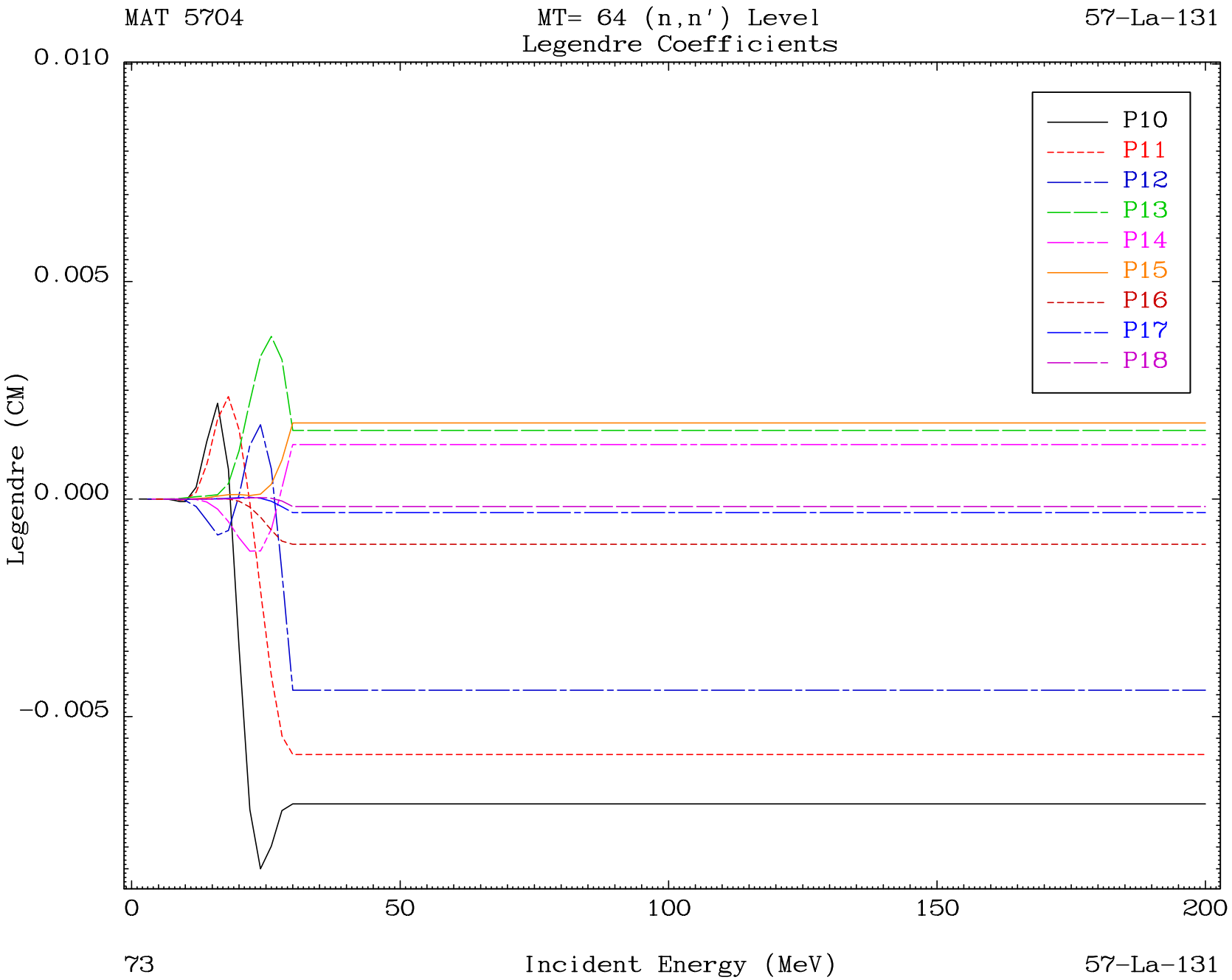

MAT 5704
MT= 63 (n,n') Level
Legendre Coefficients
57-La-131
0.5
0.4
0.3
0.2
0.1
0.0
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
68
Incident Energy (MeV)
57-La-131

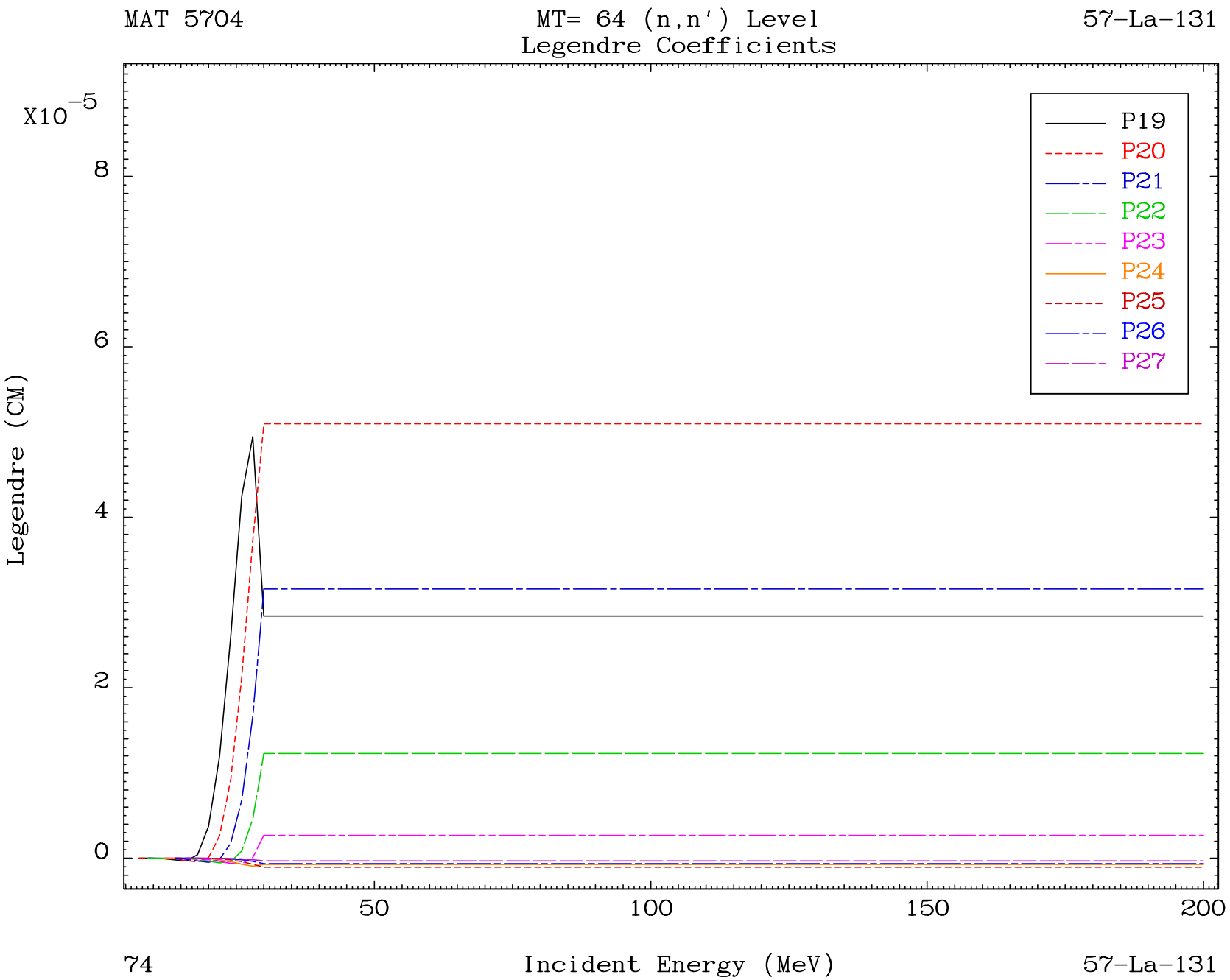

MAT 5704
MT= 63 (n,n') Level
Legendre Coefficients
57-La-131
0.06
0.04
0.02
0.00
-0.02
-0.04
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
69
Incident Energy (MeV)
57-La-131

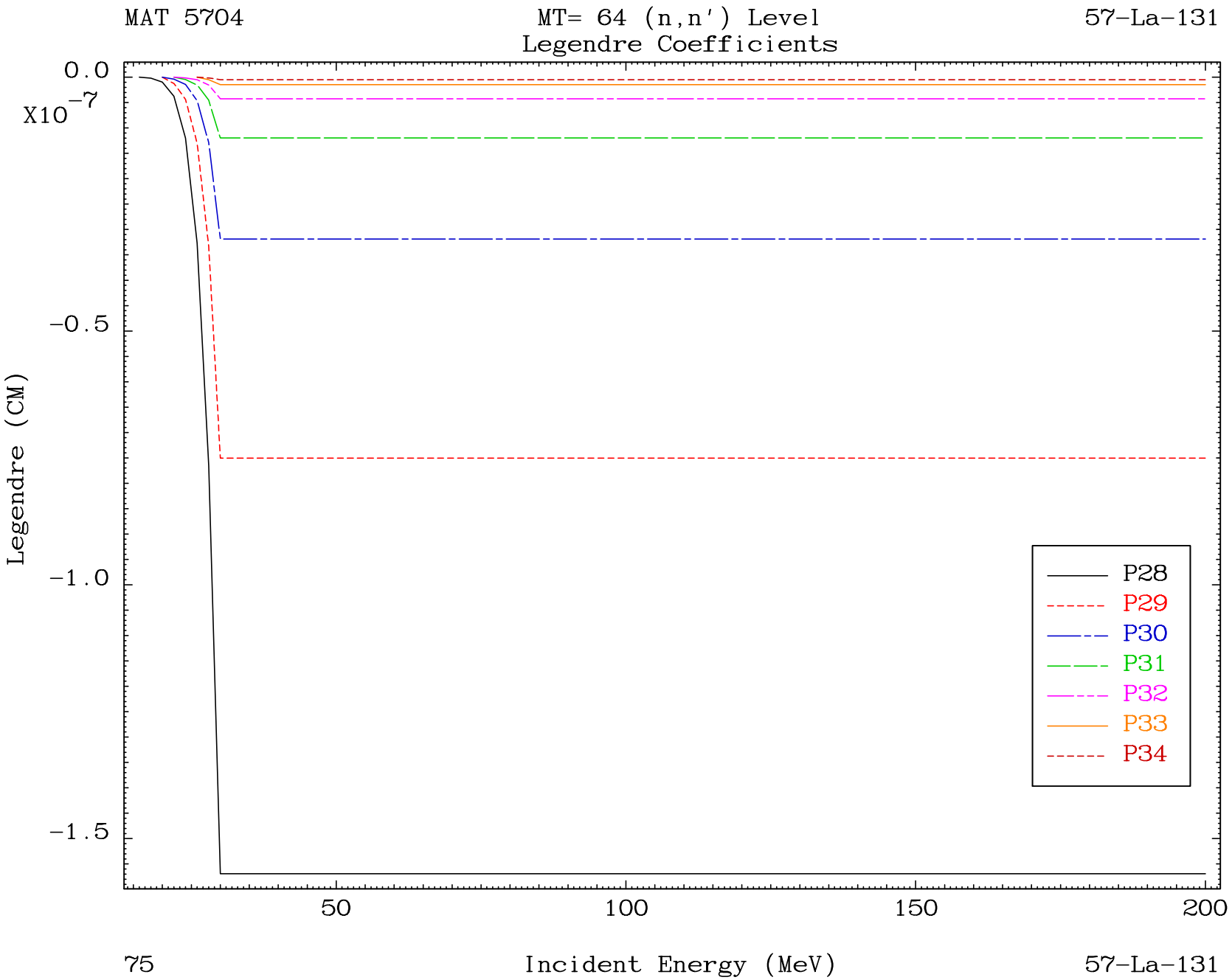

MAT 5704
MT= 63 (n,n') Level
Legendre Coefficients
57-La-131
P19
P20
P21
P22
P23
P24
P25
P26
P27
0.015
0.010
0.005
0.000
Legendre (CM)
50
100
150
200
70
Incident Energy (MeV)
57-La-131

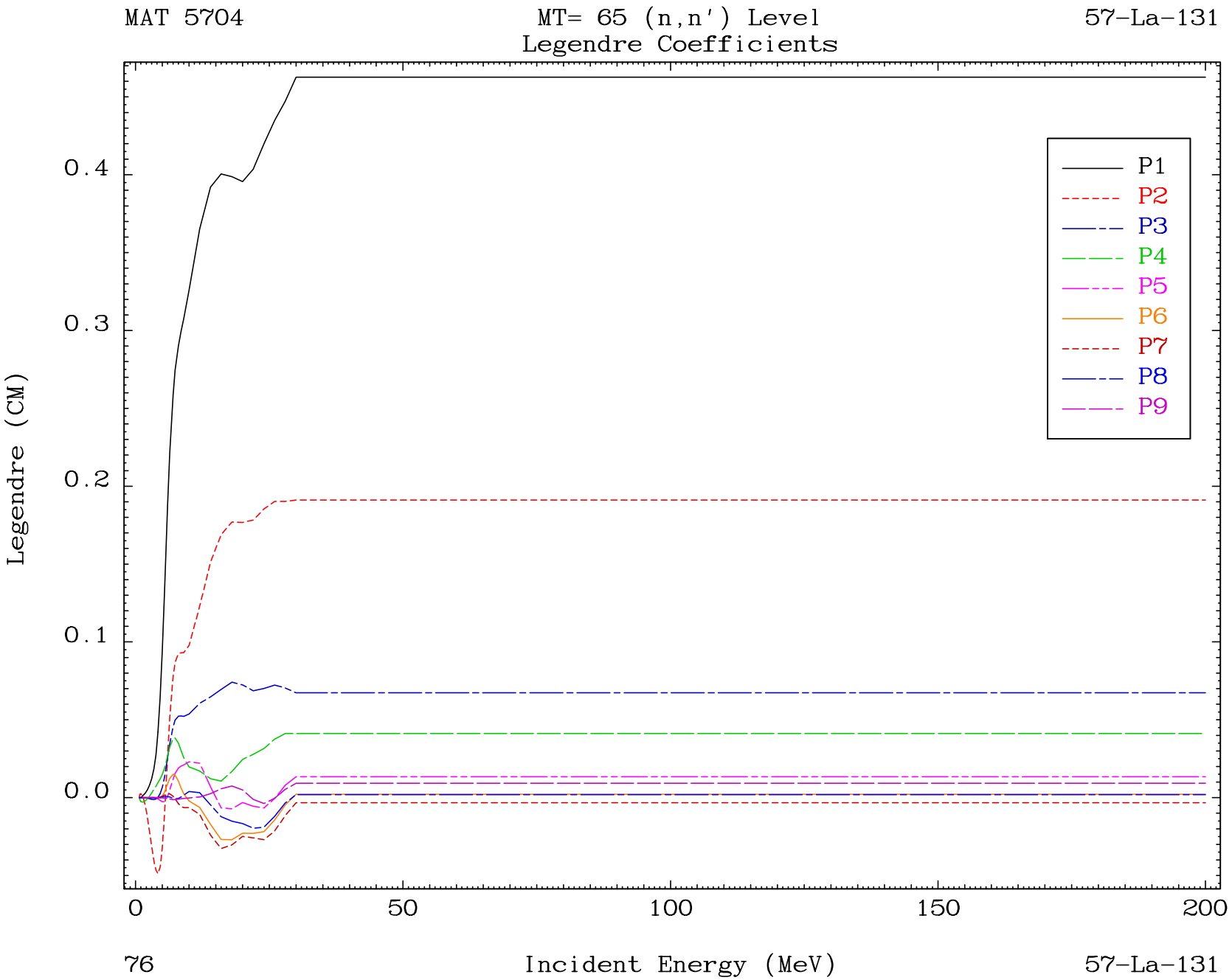

MAT 5704
MT= 63 (n,n') Level
Legendre Coefficients
57-La-131
X10 -6
5
4
3
2
1
0
Legendre (CM)
50
100
150
200
71
Incident Energy (MeV)
57-La-131
P28
P29
P30
P31
P32
P33
P34
P35
P36

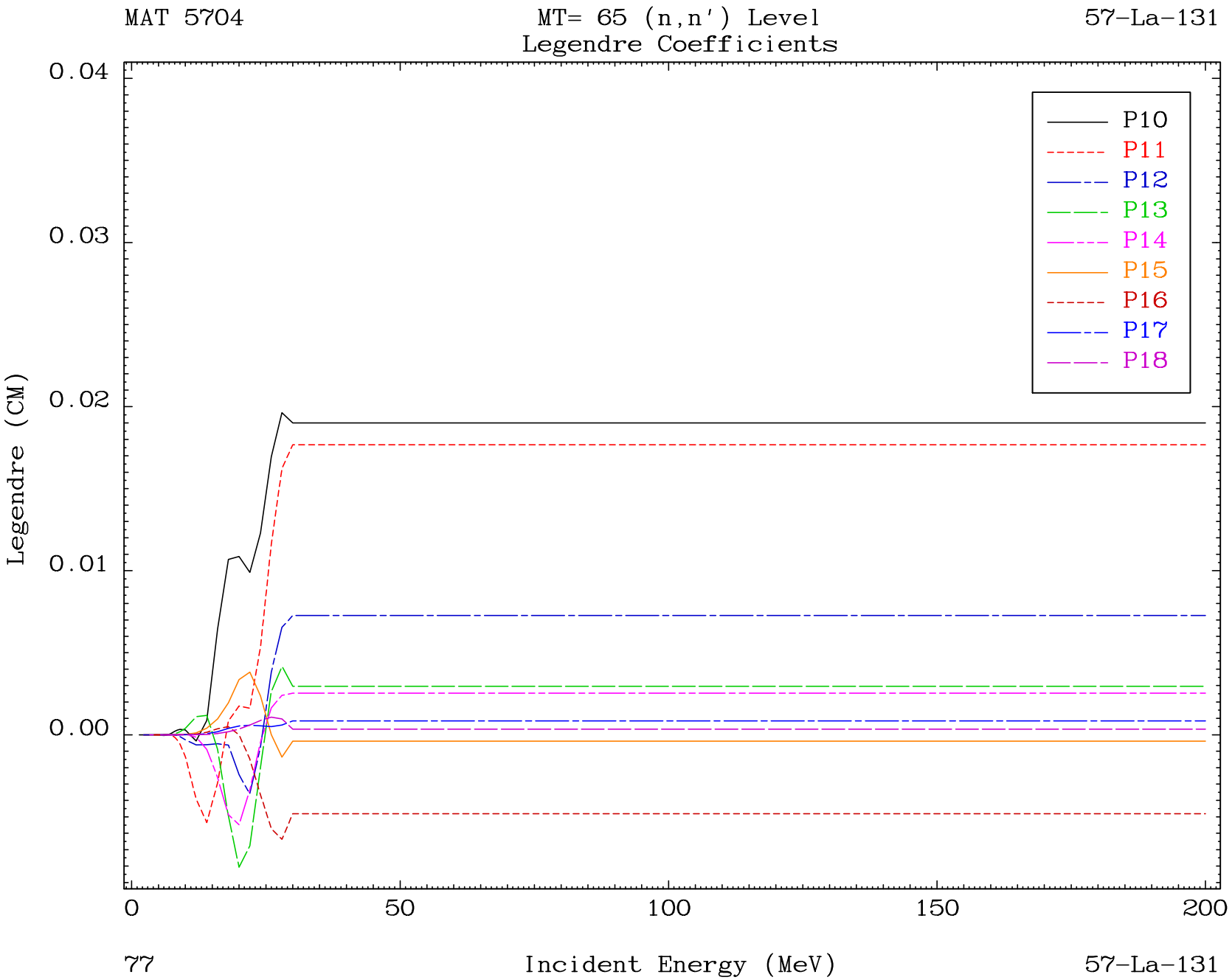

MAT 5704
MT= 64 (n,n') Level
Legendre Coefficients
57-La-131
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
-0.1
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
72
Incident Energy (MeV)
57-La-131

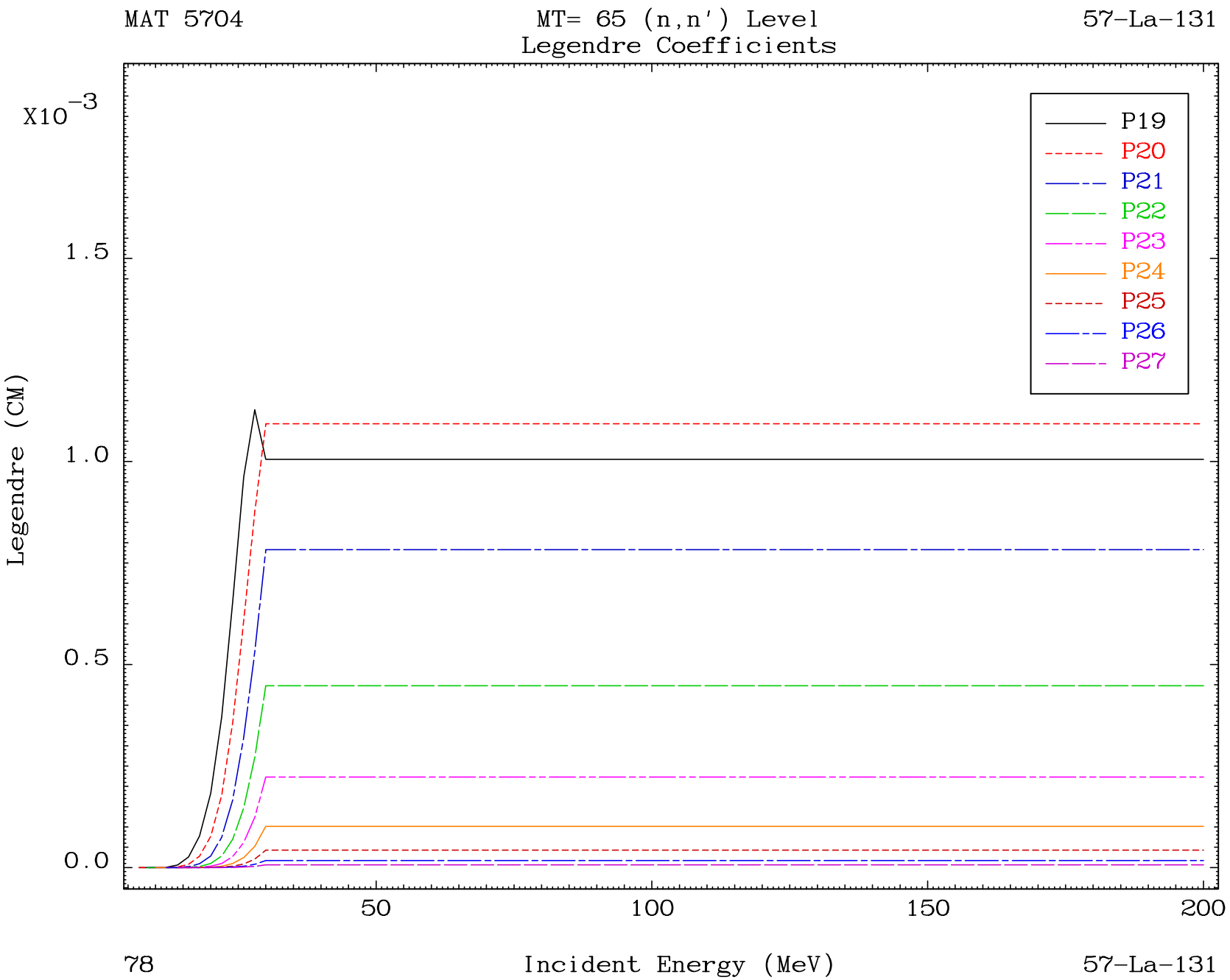

MAT 5704
MT= 64 (n,n') Level
Legendre Coefficients
57-La-131
0.010
0.005
0.000
-0.005
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
73
Incident Energy (MeV)
57-La-131

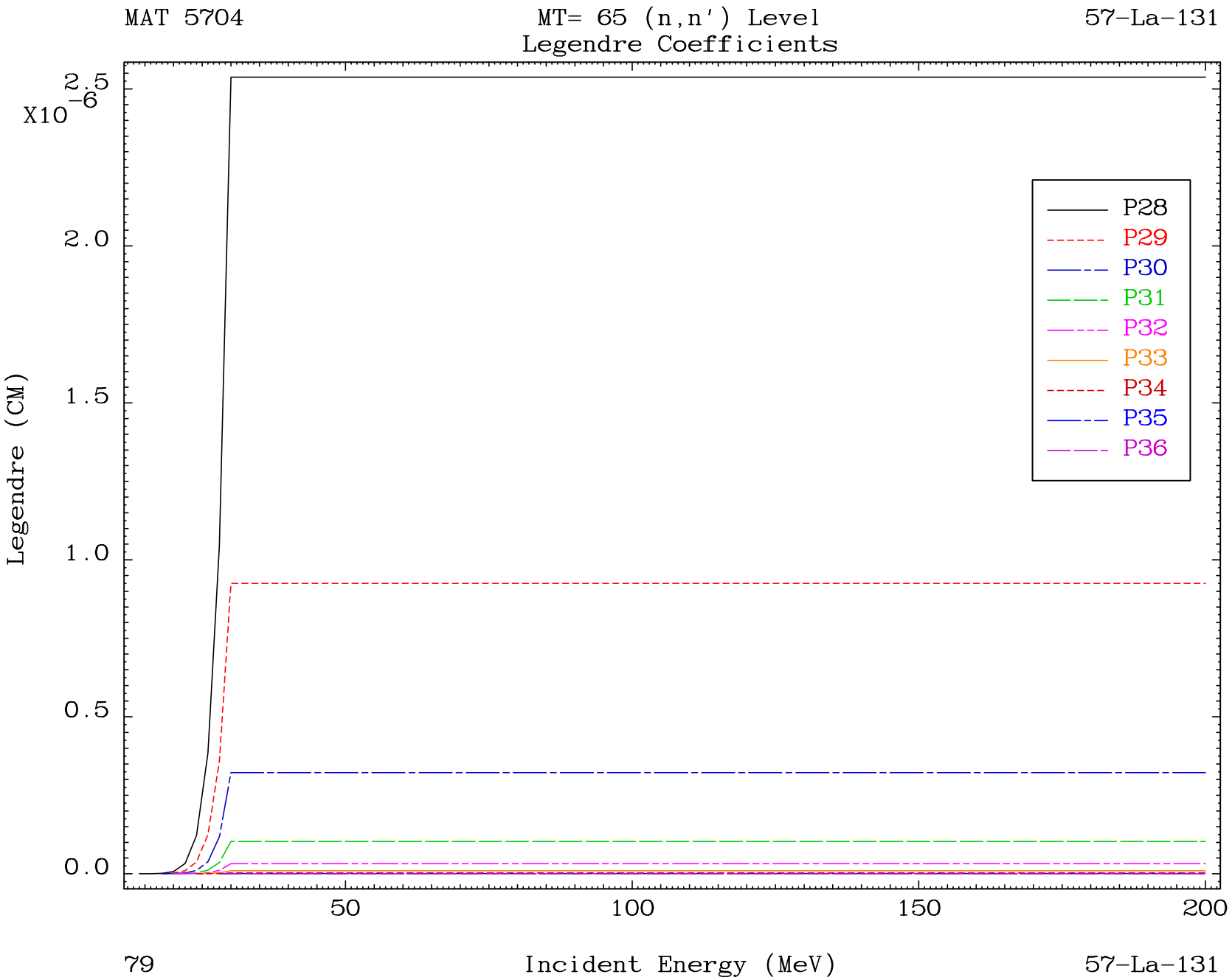

MAT 5704
MT= 64 (n,n') Level
Legendre Coefficients
57-La-131
X10 −5
8
6
4
2
0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
74
Incident Energy (MeV)
57-La-131

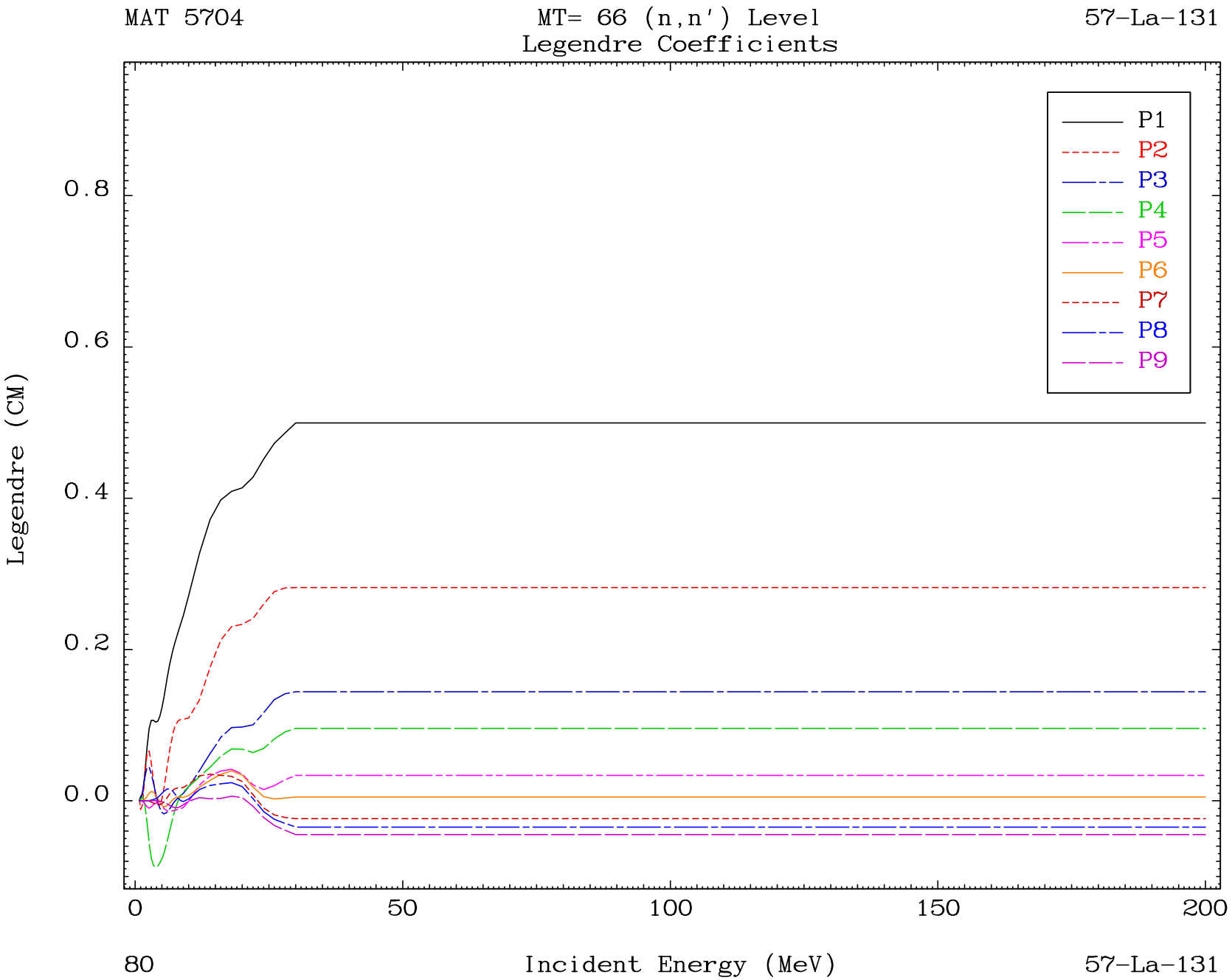

MAT 5704
MT= 64 (n,n') Level
Legendre Coefficients
57-La-131
0.0
X10^-7
-0.5
-1.0
-1.5
Legendre (CM)
50
100
150
200
75
Incident Energy (MeV)
57-La-131
P28
P29
P30
P31
P32
P33
P34

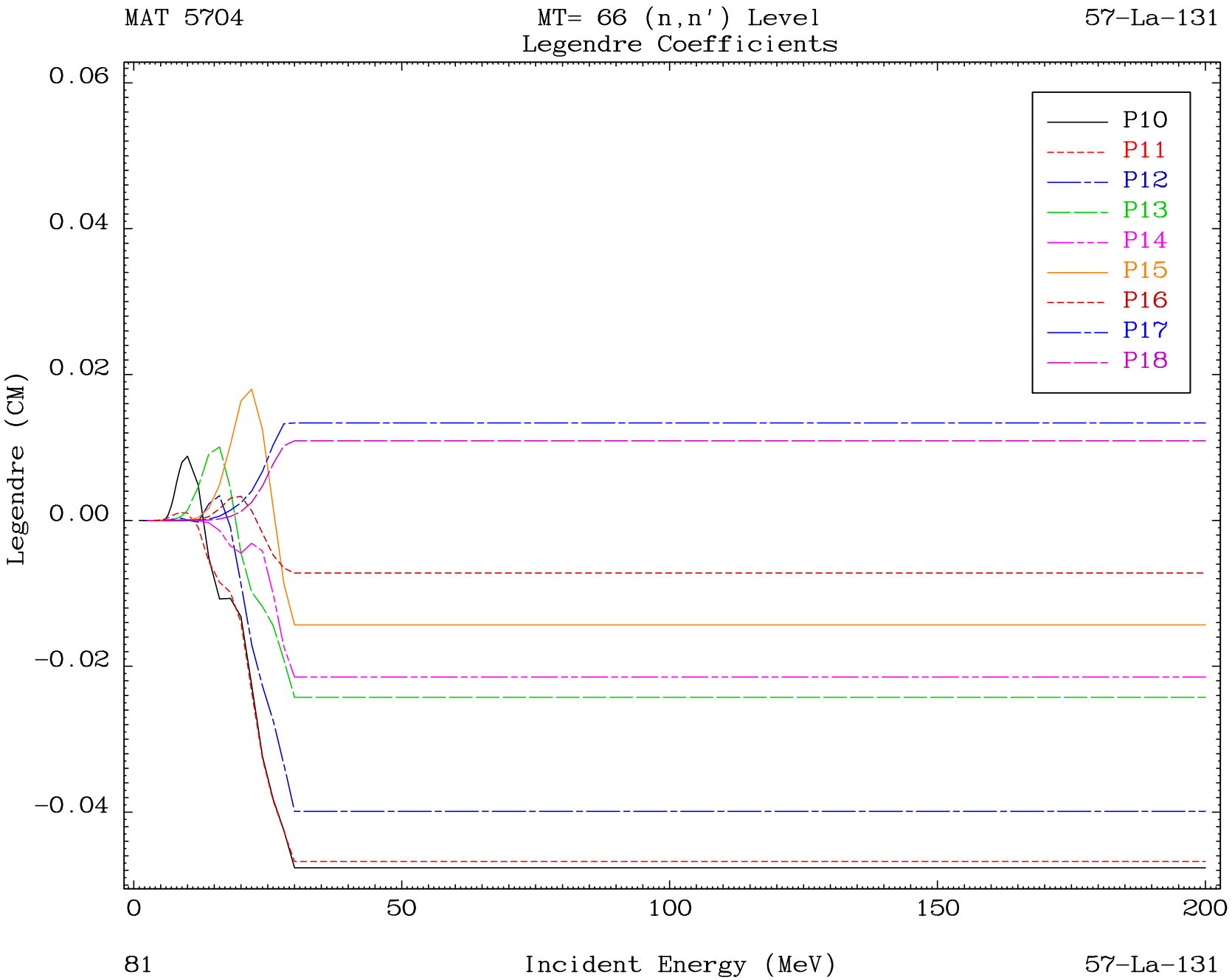

MAT 5704
MT= 65 (n,n') Level
Legendre Coefficients
57-La-131
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
76
Incident Energy (MeV)
57-La-131

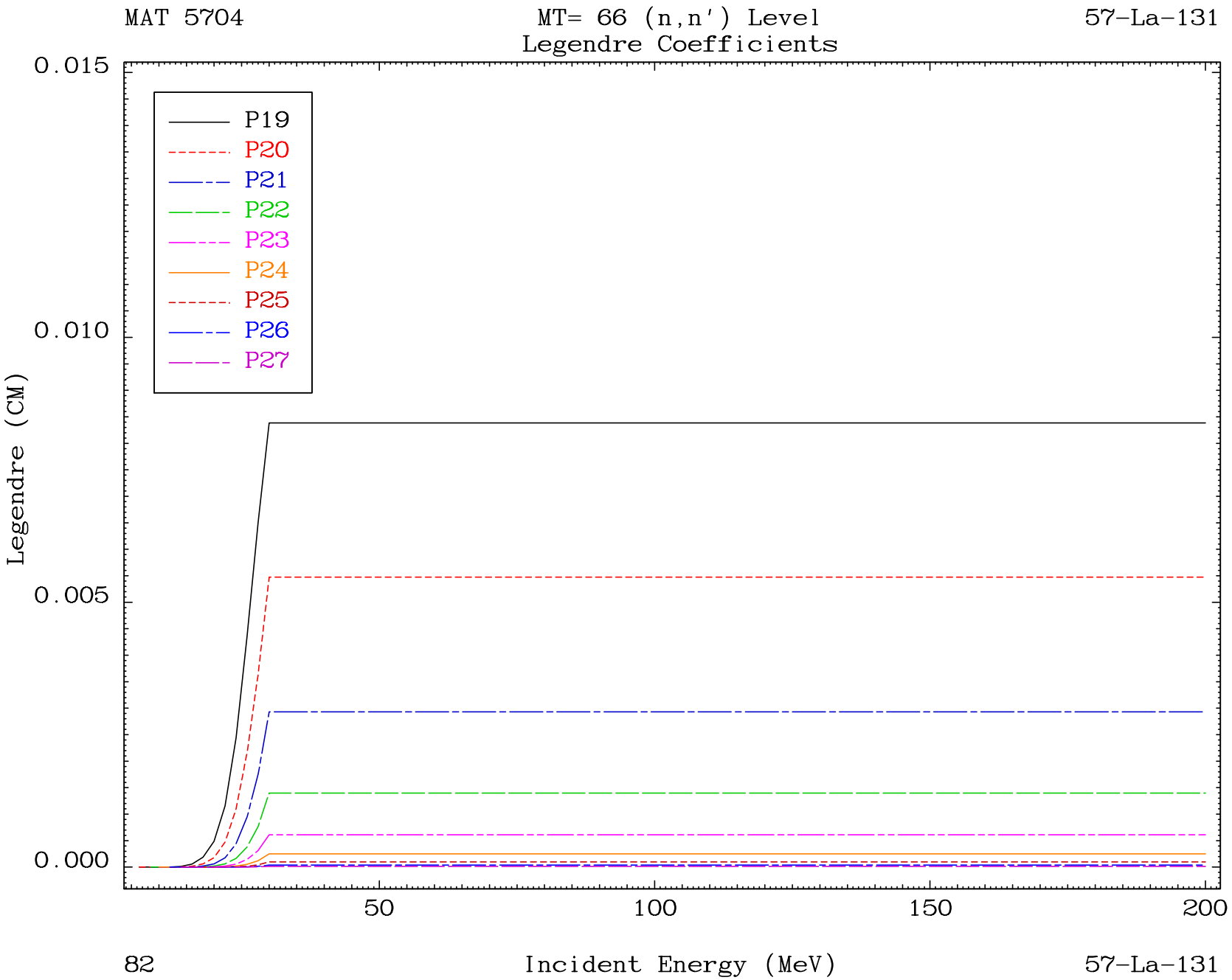

MAT 5704
MT= 65 (n,n') Level
Legendre Coefficients
57-La-131
0.04
0.03
0.02
0.01
0.00
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
77
Incident Energy (MeV)
57-La-131

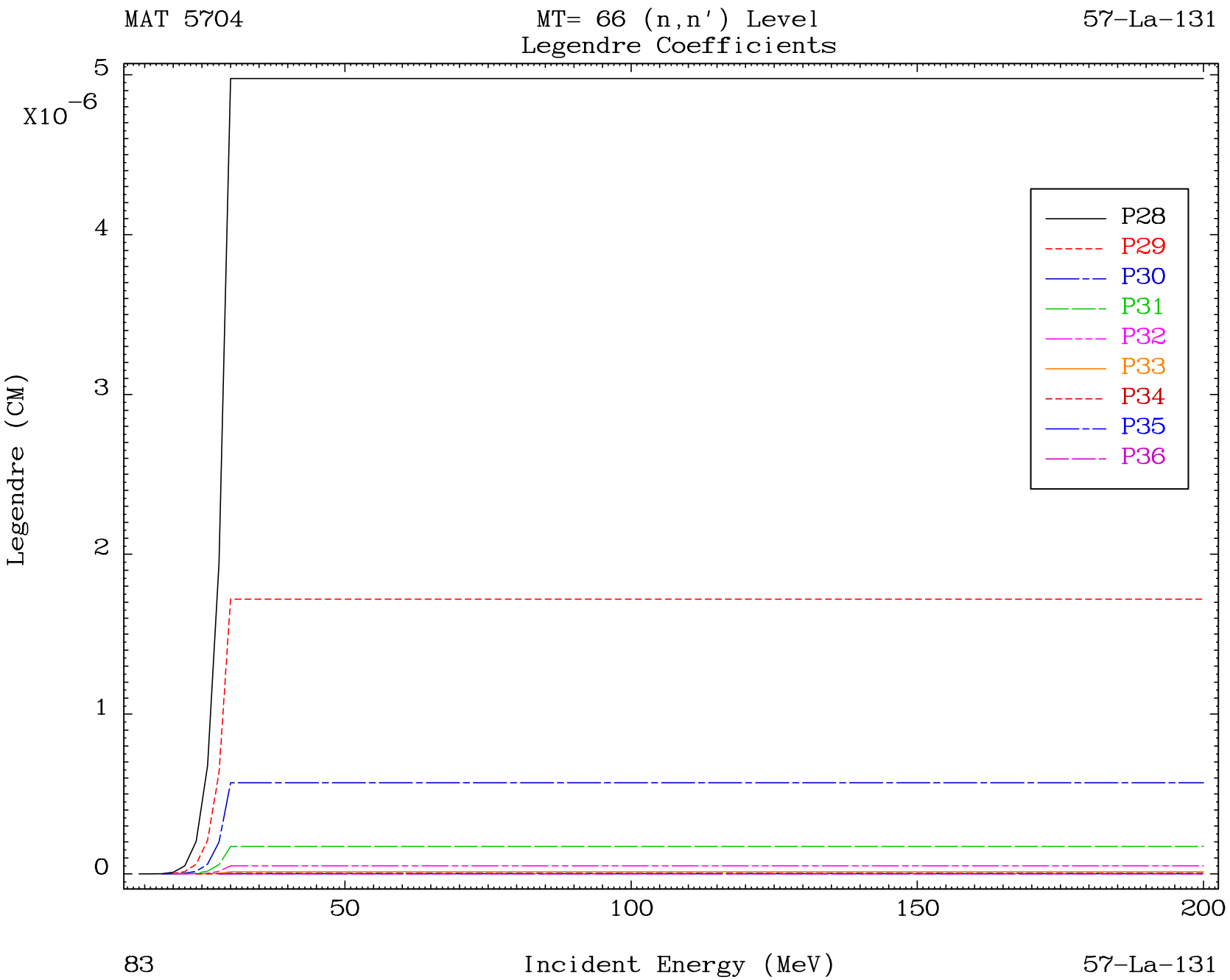

MAT 5704
MT= 65 (n,n') Level
Legendre Coefficients
57-La-131
X10^-3
1.5
1.0
0.5
0.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
78
Incident Energy (MeV)
57-La-131

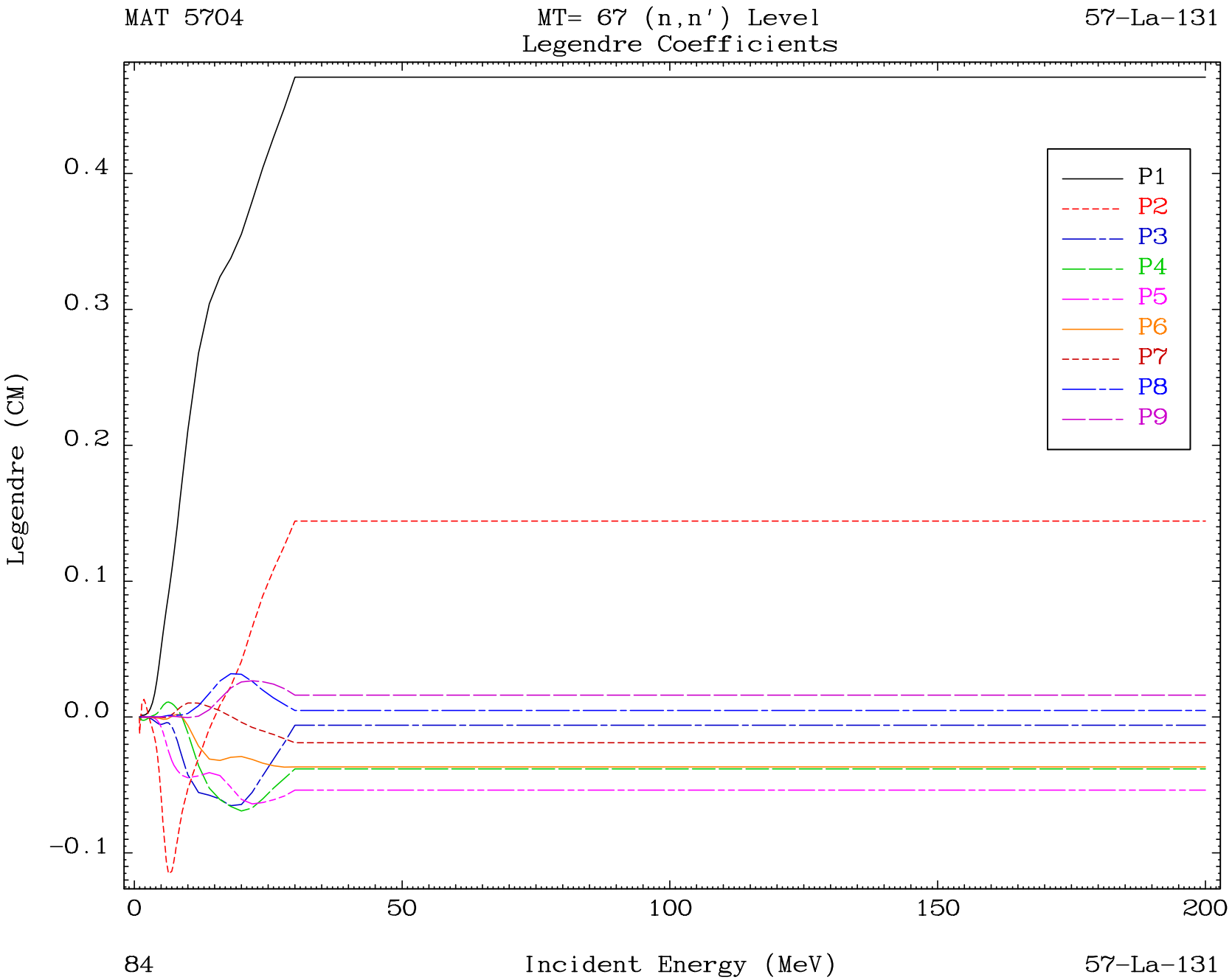

MAT 5704
MT= 65 (n,n') Level
Legendre Coefficients
57-La-131
X10 -6
2.5
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
P35
P36
50
100
150
200
79
Incident Energy (MeV)
57-La-131

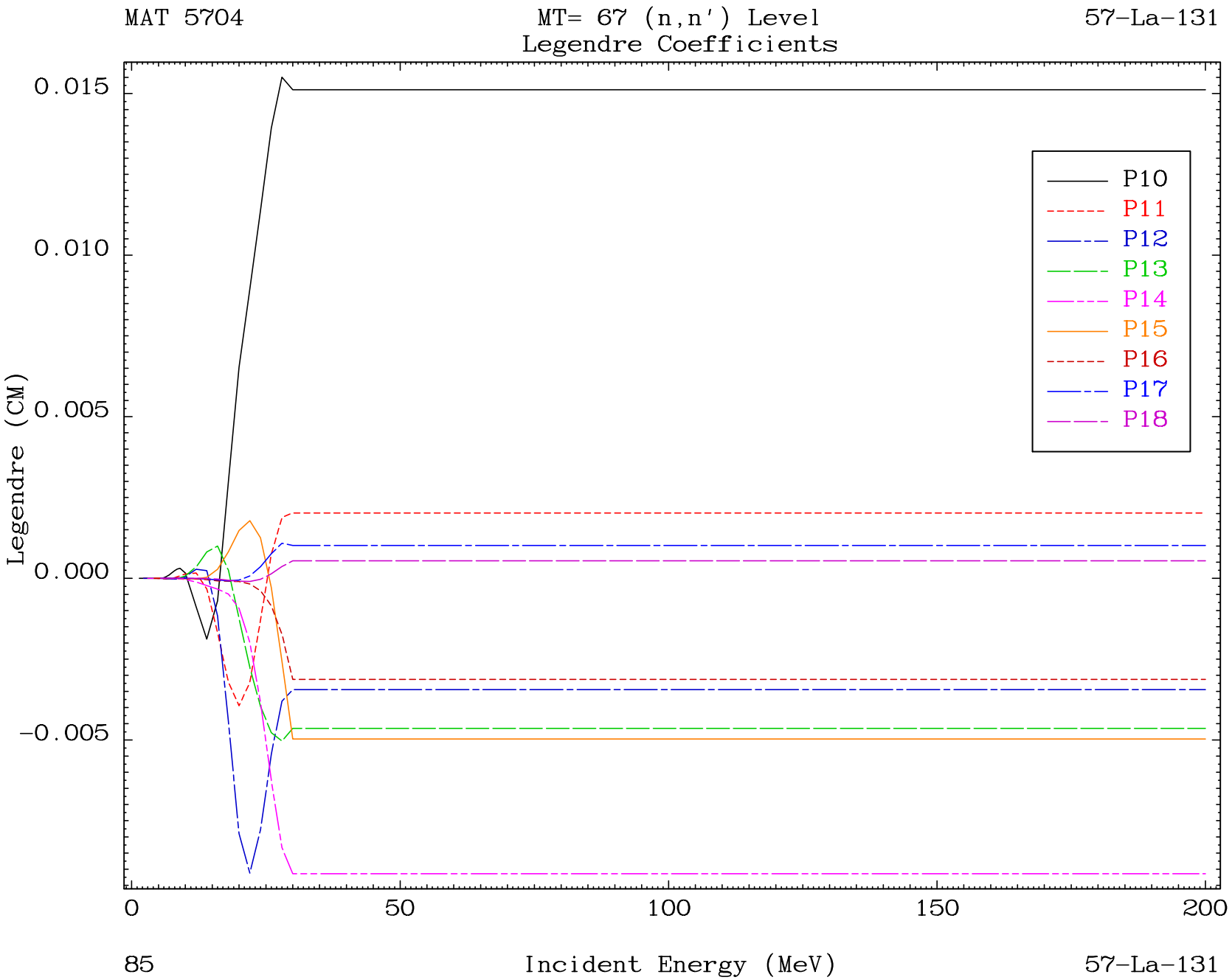

MAT 5704
MT= 66 (n,n') Level
Legendre Coefficients
57-La-131
P1
P2
P3
P4
P5
P6
P7
P8
P9
Legendre (CM)
0.8
0.6
0.4
0.2
0.0
0
50
100
150
200
80
Incident Energy (MeV)
57-La-131

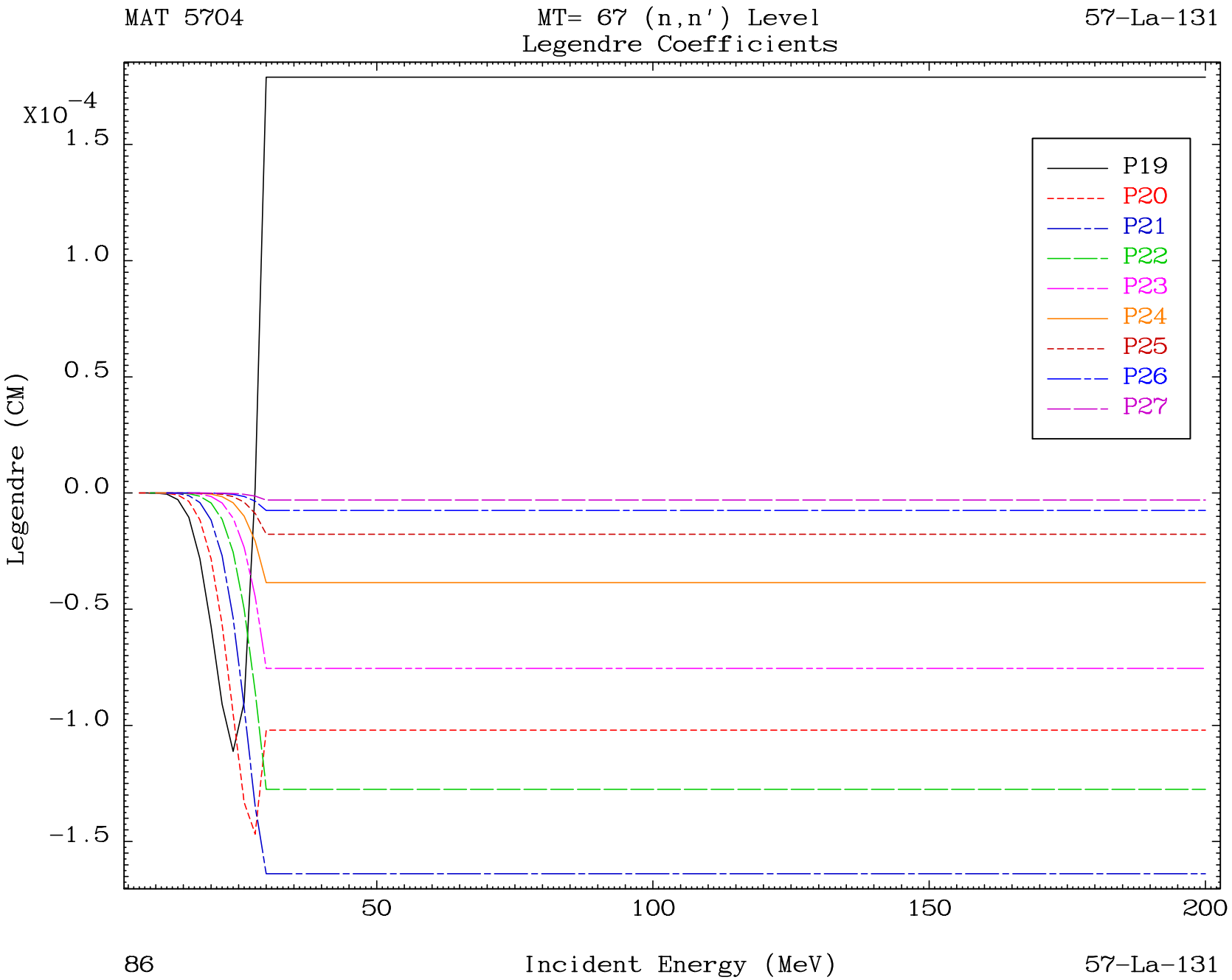

MAT 5704
MT= 66 (n,n') Level
Legendre Coefficients
57-La-131
0.06
0.04
0.02
0.00
-0.02
-0.04
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
81
Incident Energy (MeV)
57-La-131

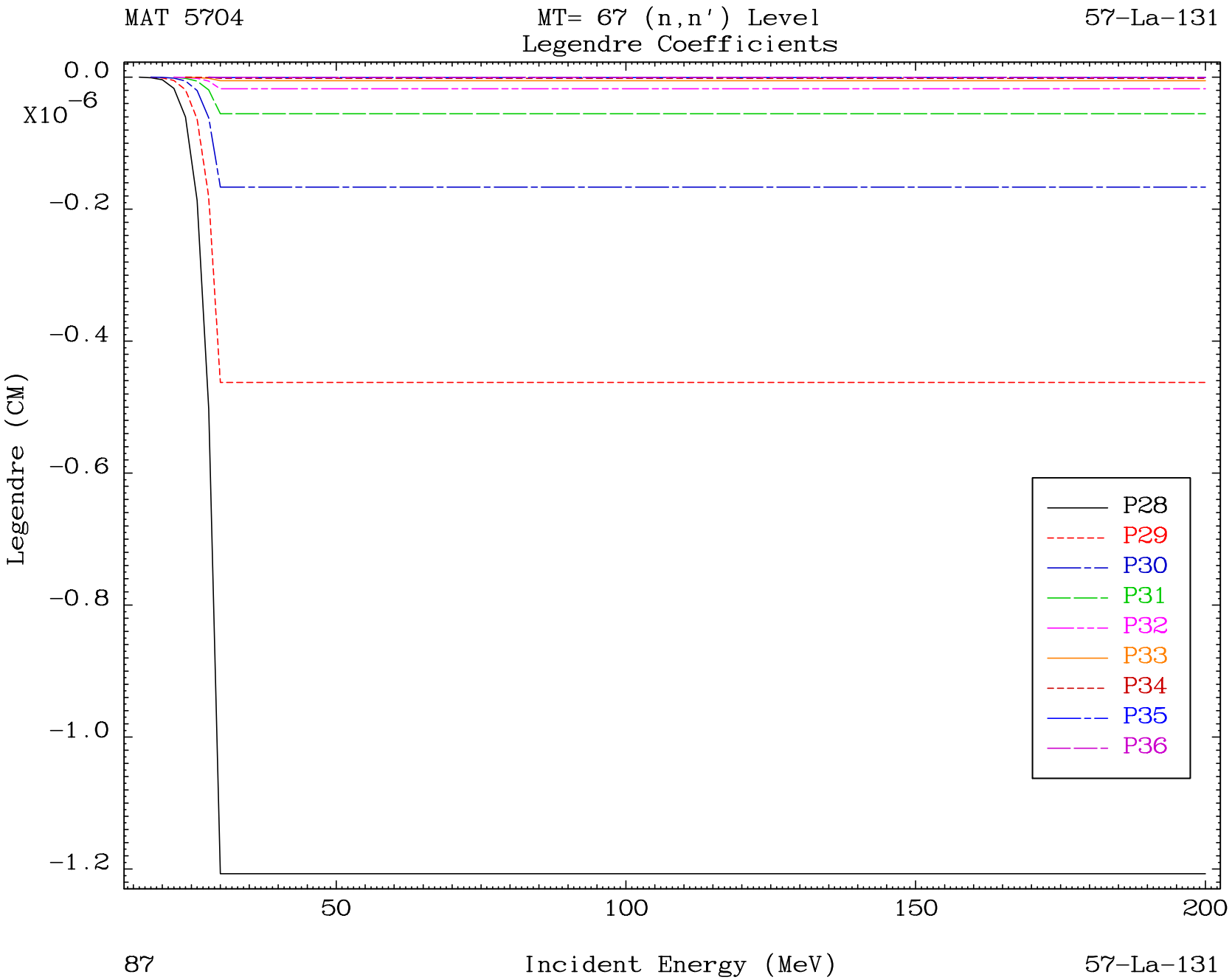

MAT 5704
MT= 66 (n,n') Level
Legendre Coefficients
57-La-131
P19
P20
P21
P22
P23
P24
P25
P26
P27
0.015
0.010
0.005
0.000
Legendre (CM)
50
100
150
200
82
Incident Energy (MeV)
57-La-131

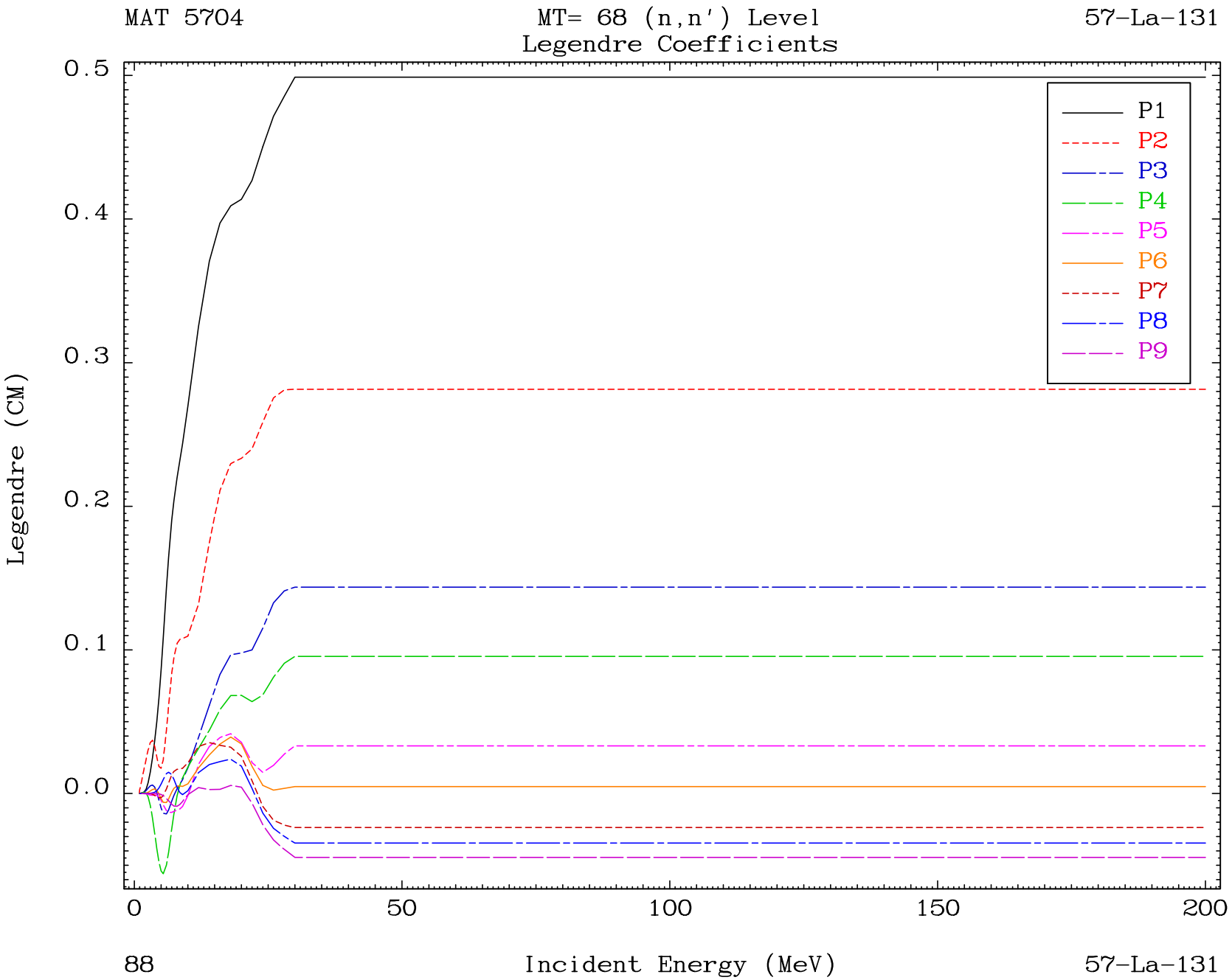

MAT 5704
MT= 66 (n,n') Level
Legendre Coefficients
57-La-131
X10^-6
5
4
3
2
1
0
Legendre (CM)
50
100
150
200
83
Incident Energy (MeV)
57-La-131
P28
P29
P30
P31
P32
P33
P34
P35
P36

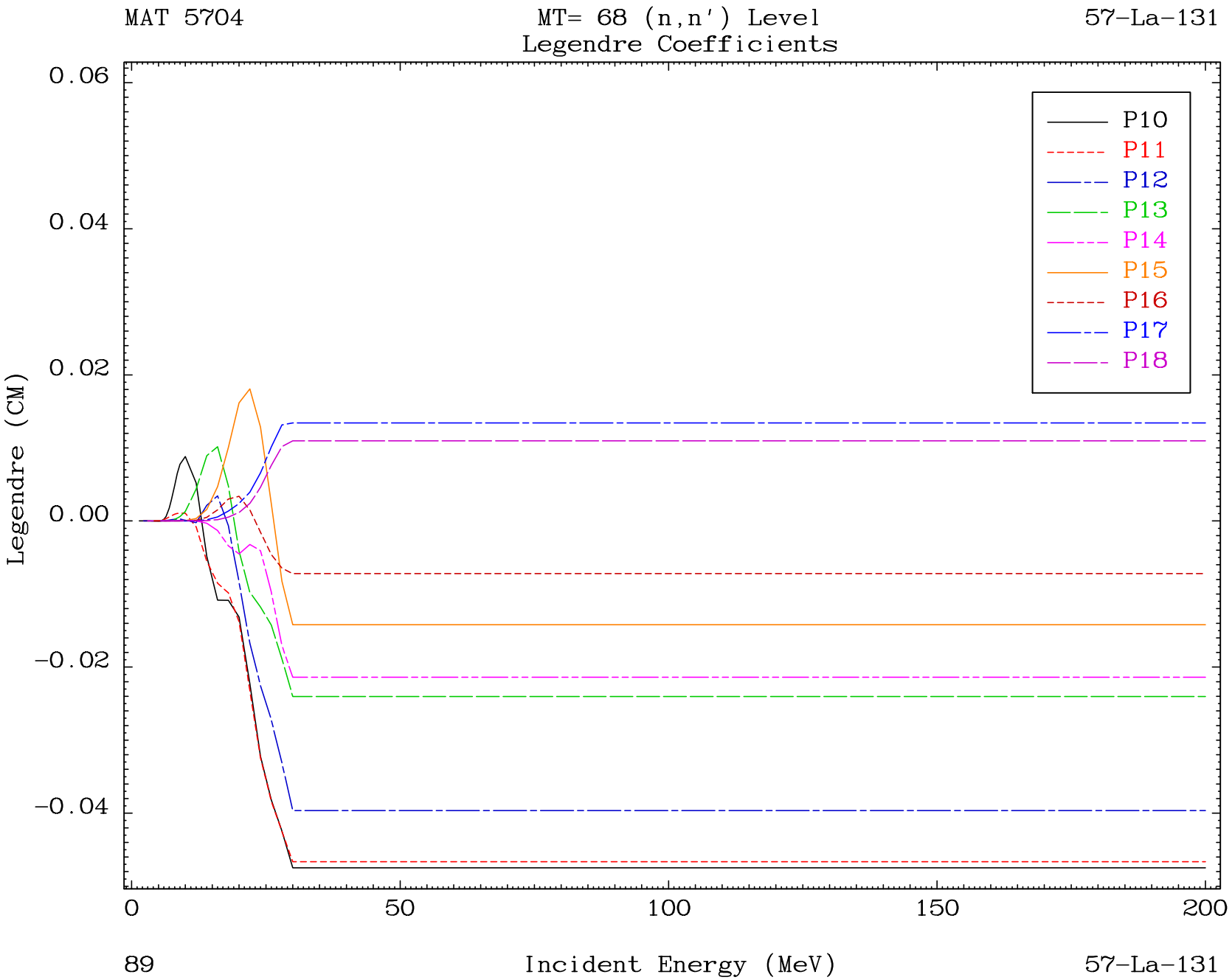

MAT 5704
MT= 67 (n,n') Level
Legendre Coefficients
57-La-131
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
-0.1
0
50
100
150
200
84
Incident Energy (MeV)
57-La-131
P1
P2
P3
P4
P5
P6
P7
P8
P9

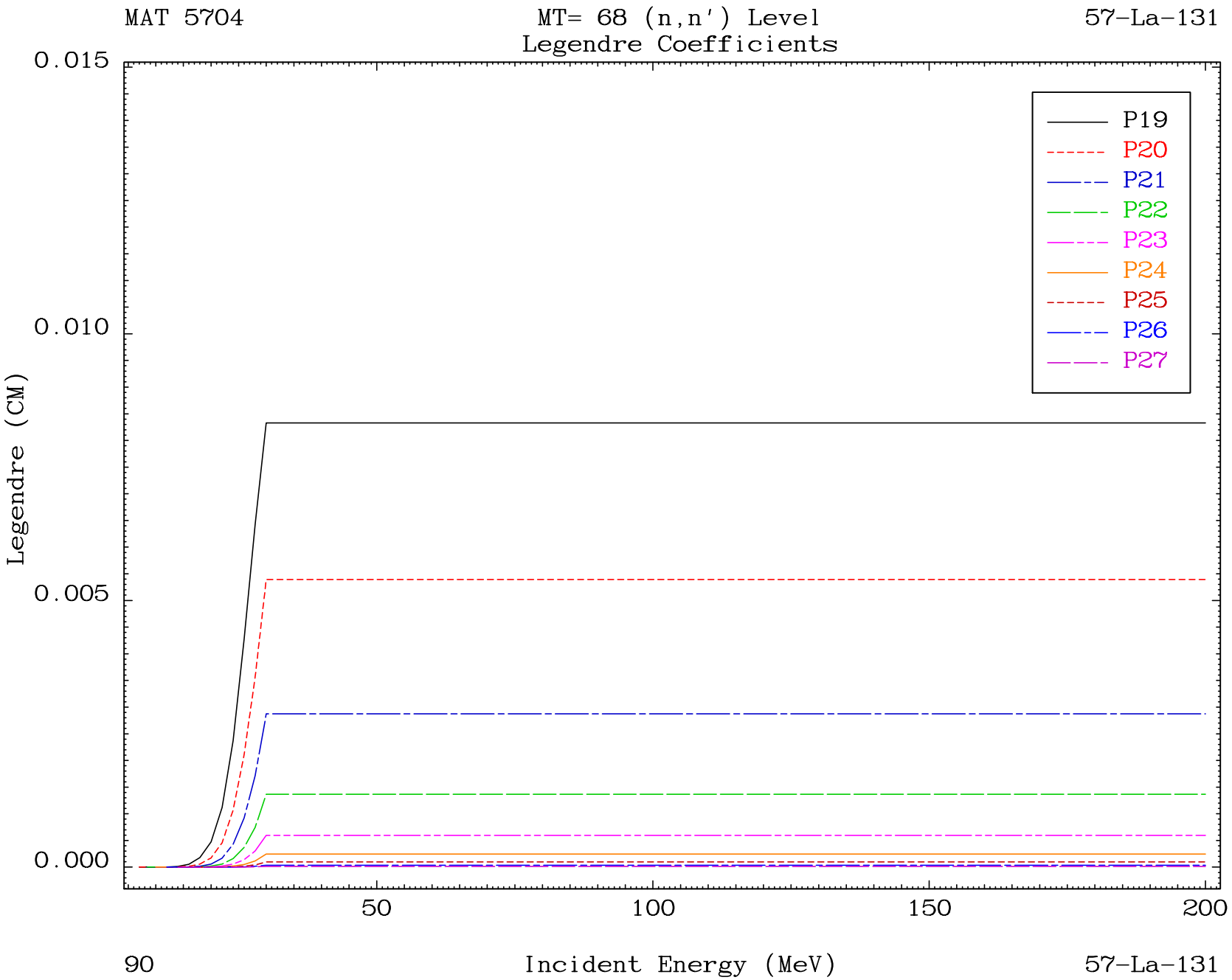

MAT 5704
MT= 67 (n,n') Level
Legendre Coefficients
57-La-131
0.015
0.010
0.005
0.000
-0.005
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
85
Incident Energy (MeV)
57-La-131

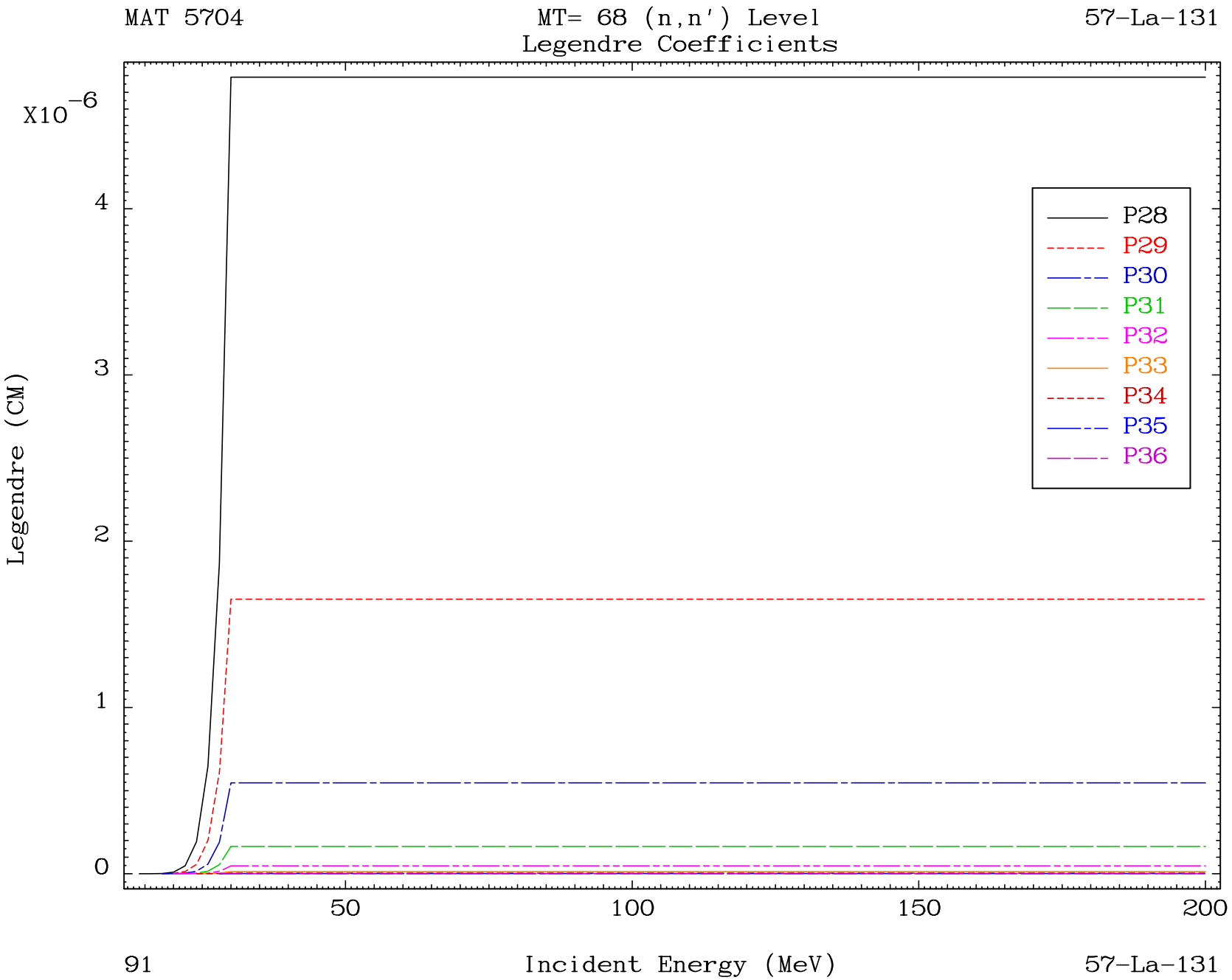

MAT 5704
MT= 67 (n,n') Level
Legendre Coefficients
57-La-131
X10^-4
1.5
1.0
0.5
0.0
-0.5
-1.0
-1.5
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
86
Incident Energy (MeV)
57-La-131

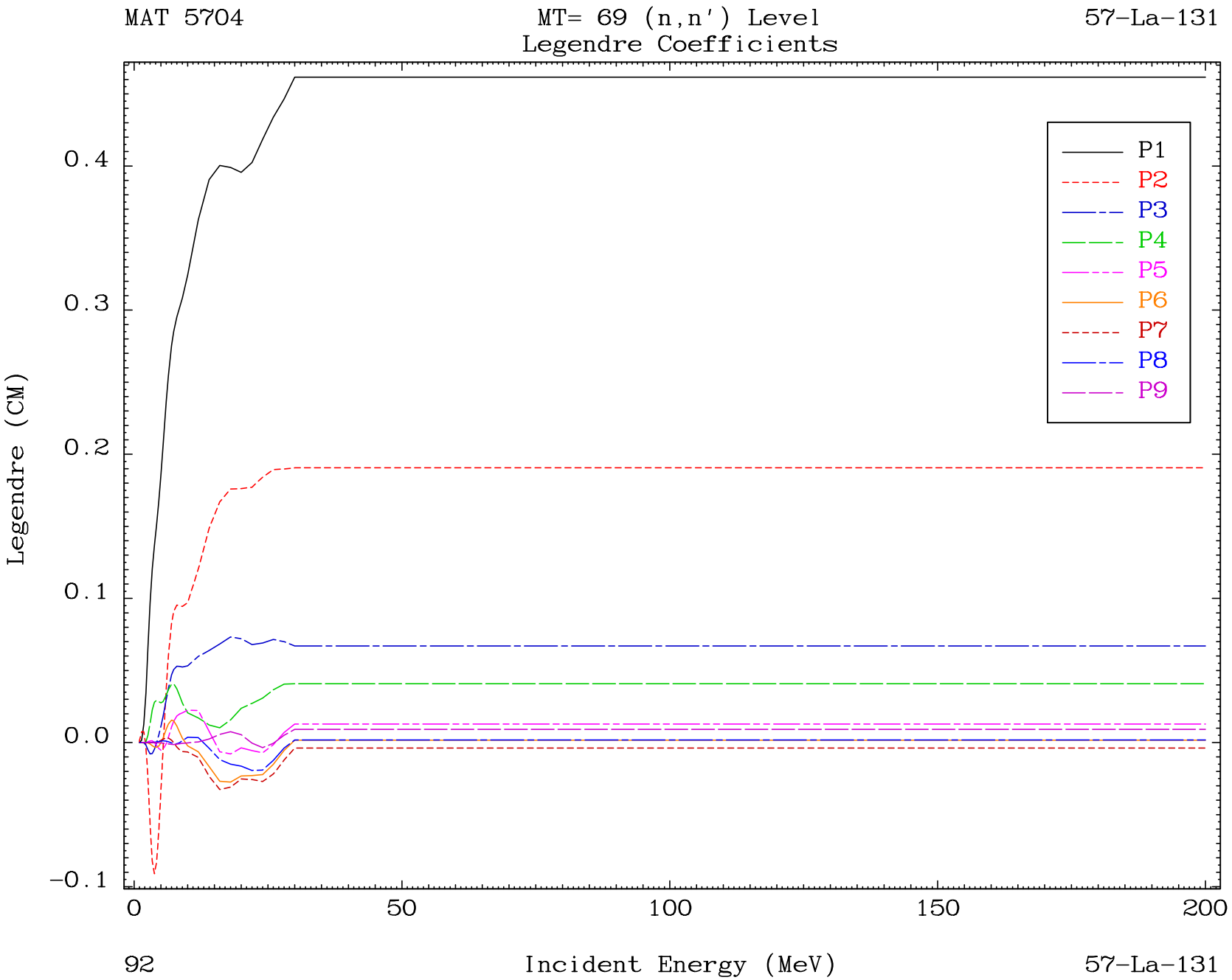

MAT 5704
MT= 67 (n,n') Level
Legendre Coefficients
57-La-131
0.0
X10^-6
-0.2
-0.4
-0.6
-0.8
-1.0
-1.2
Legendre (CM)
50
100
150
200
87
Incident Energy (MeV)
57-La-131
P28
P29
P30
P31
P32
P33
P34
P35
P36

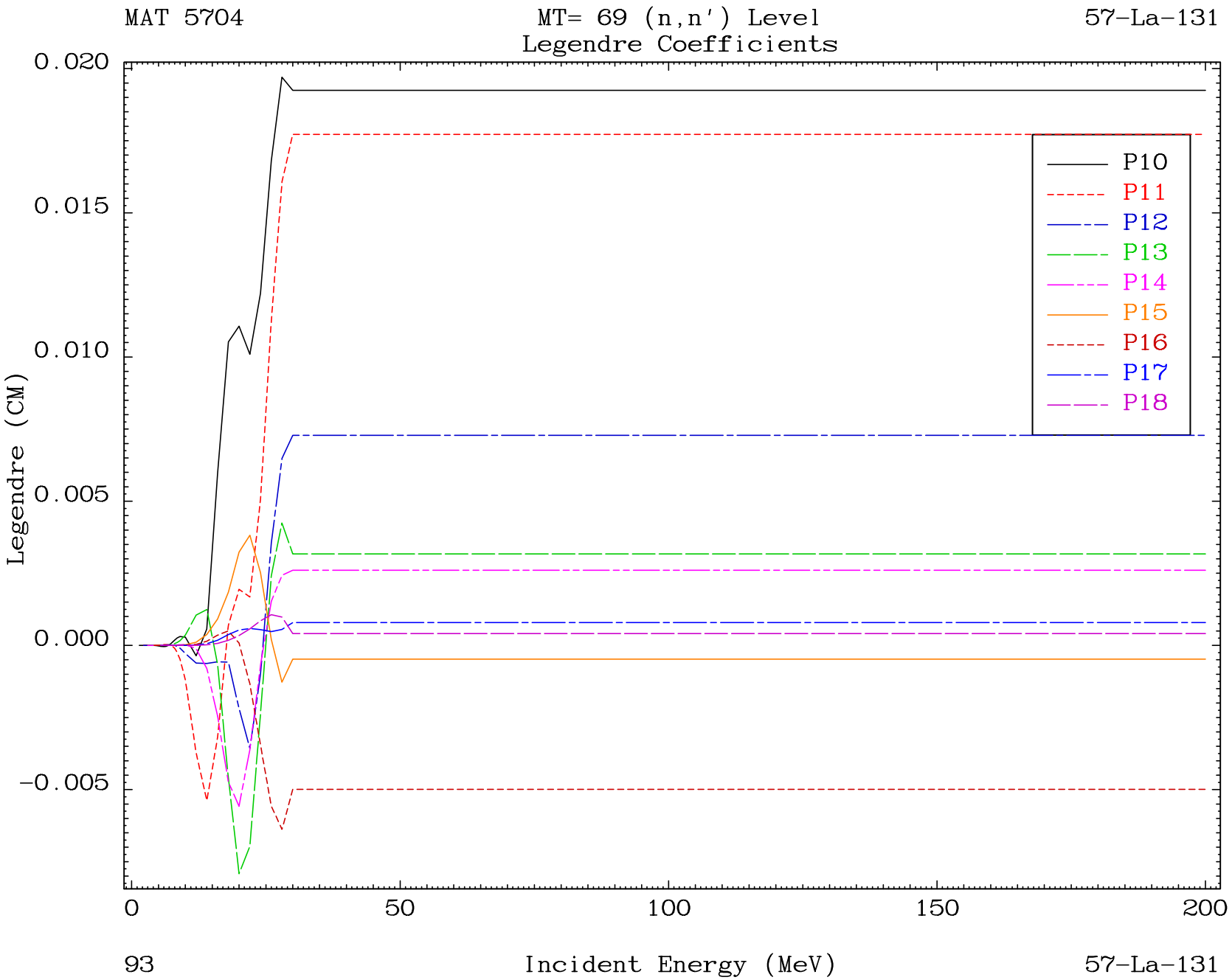

MAT 5704
MT= 68 (n,n') Level
Legendre Coefficients
57-La-131
Legendre (CM)
0.5
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
88
Incident Energy (MeV)
57-La-131

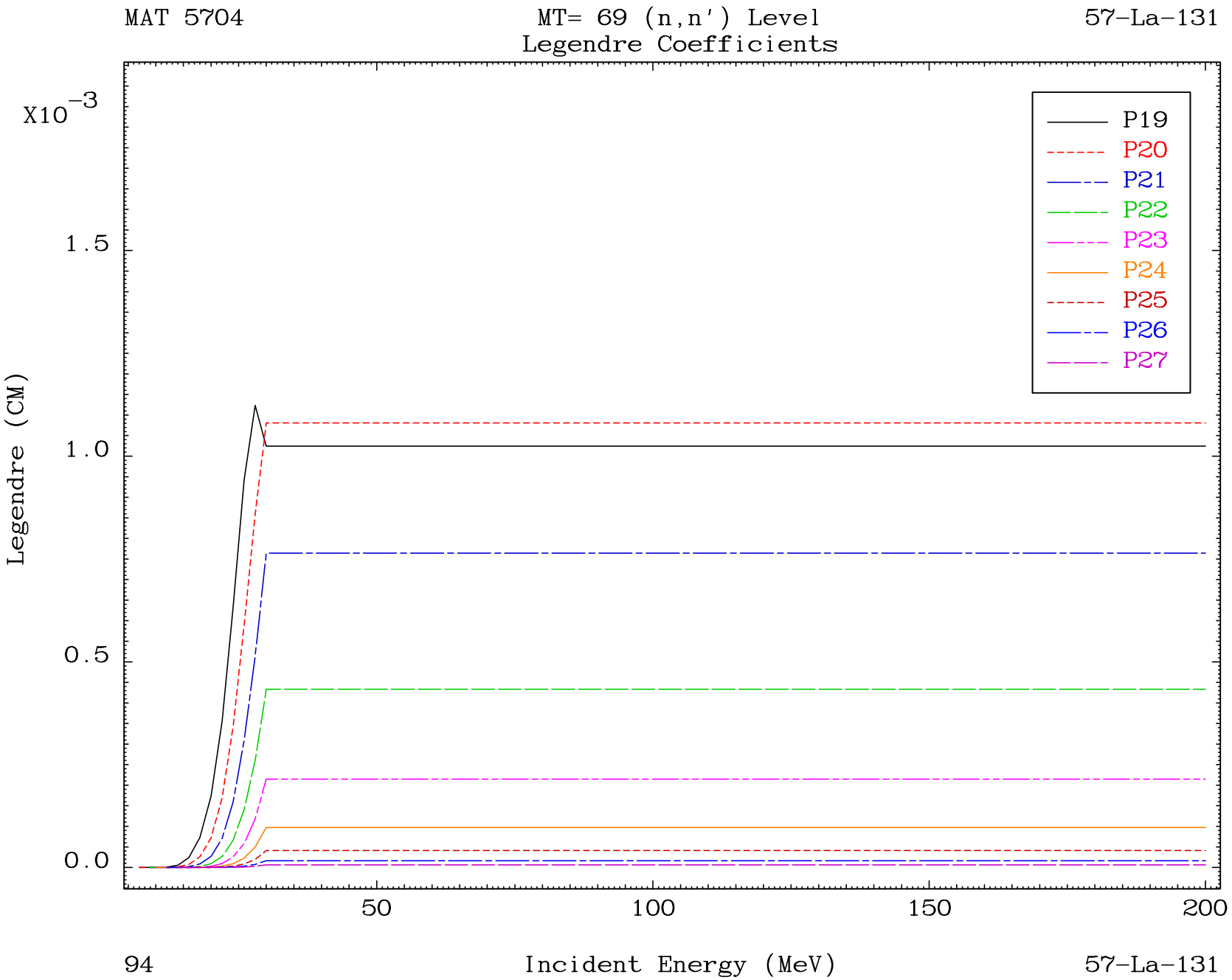

MAT 5704
MT= 68 (n,n') Level
Legendre Coefficients
57-La-131
0.06
0.04
0.02
0.00
-0.02
-0.04
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
89
Incident Energy (MeV)
57-La-131

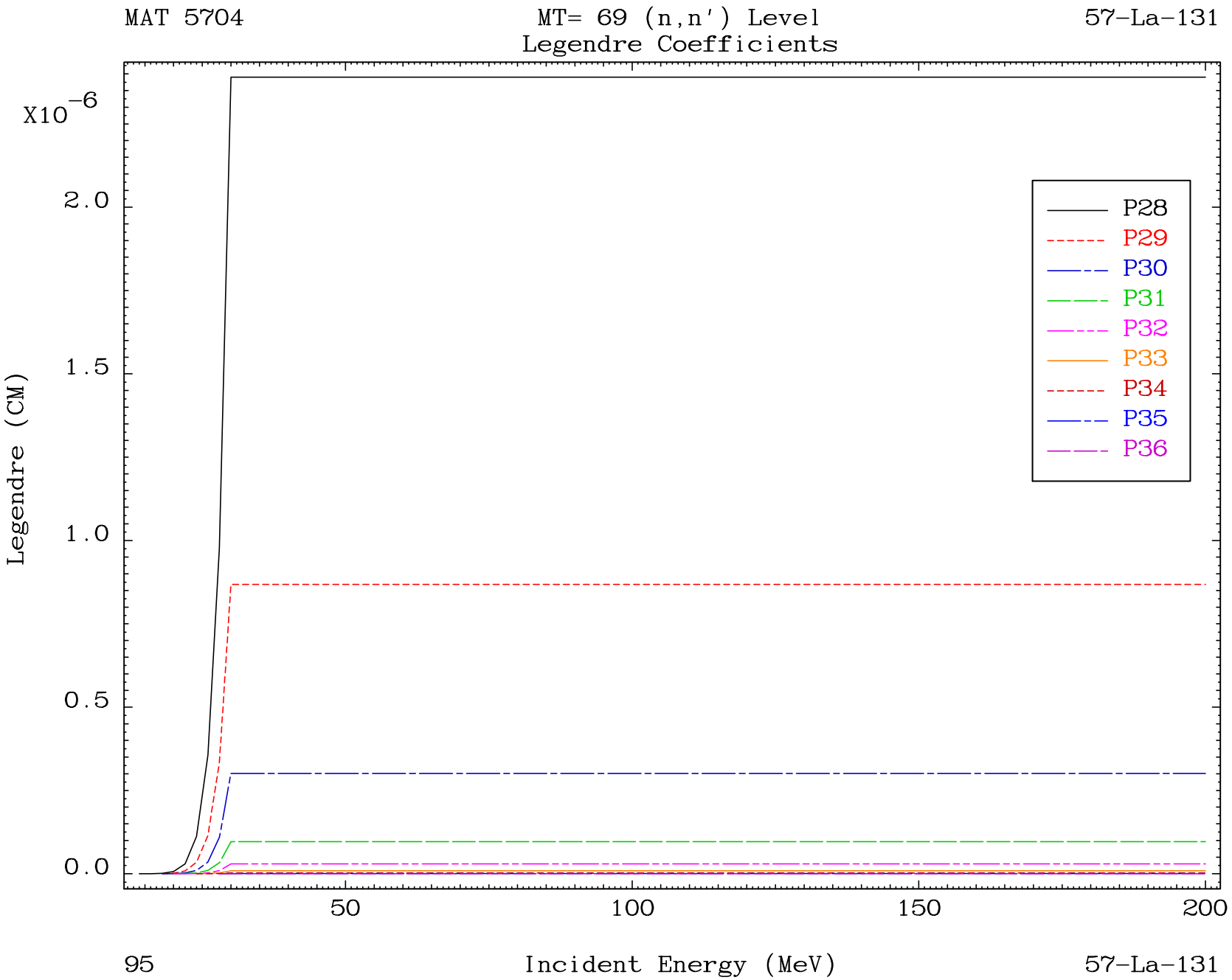

MAT 5704
MT= 68 (n,n') Level
Legendre Coefficients
57-La-131
0.015
0.010
0.005
0.000
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
90
Incident Energy (MeV)
57-La-131

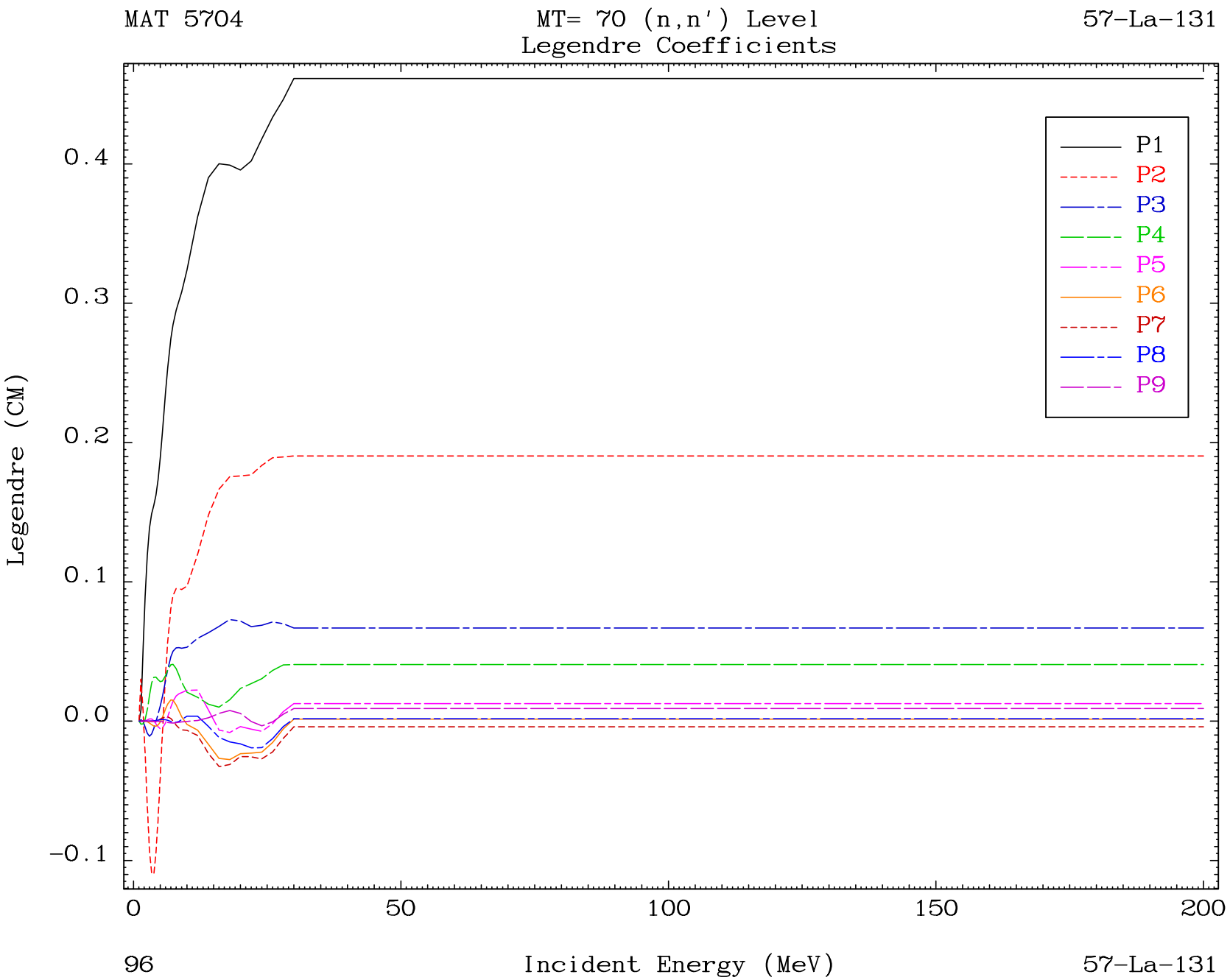

MAT 5704
MT= 68 (n,n') Level
Legendre Coefficients
57-La-131
X10 −6
4
3
2
1
0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
P35
P36
50
100
150
200
91
Incident Energy (MeV)
57-La-131

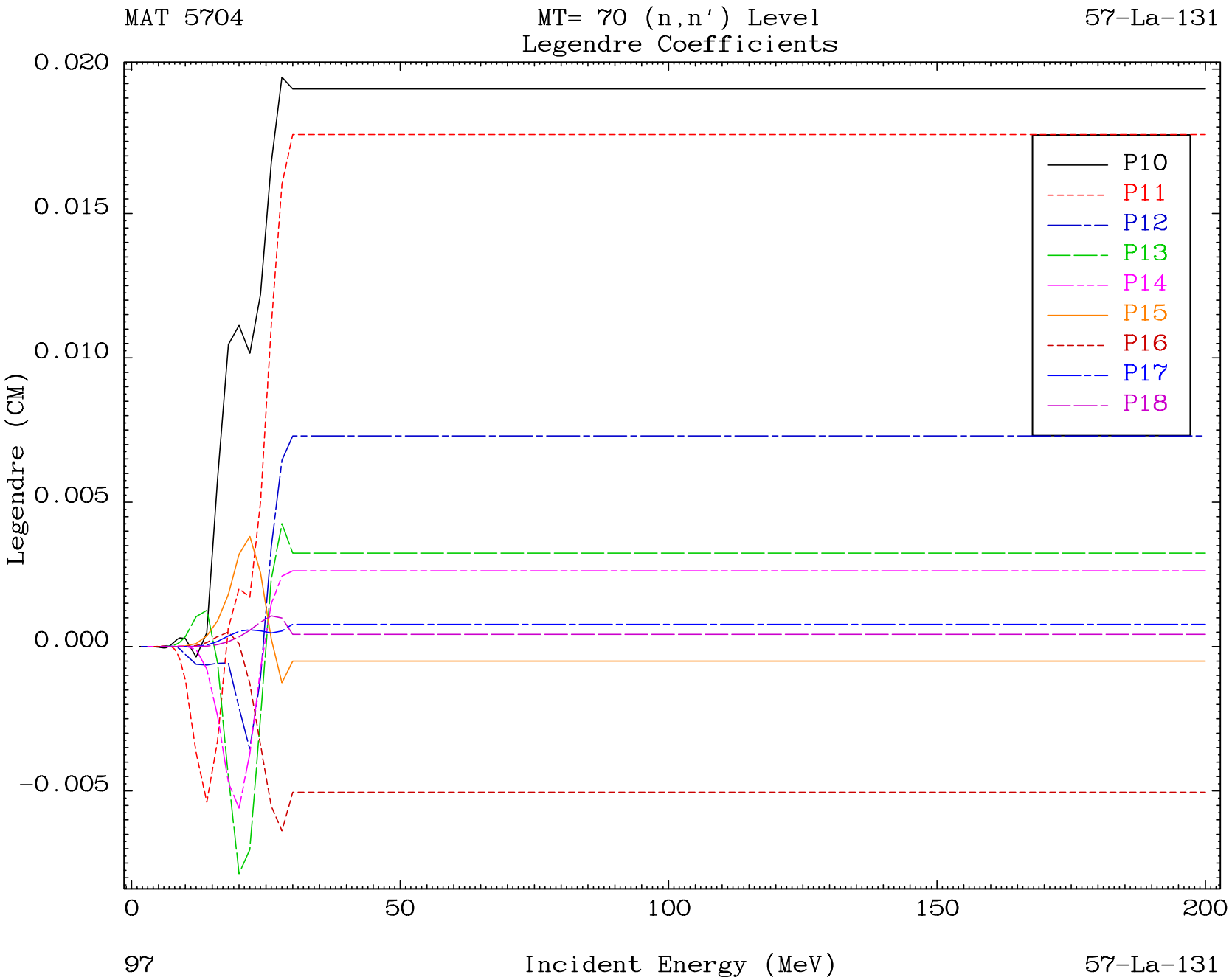

MAT 5704
MT= 69 (n,n') Level
Legendre Coefficients
57-La-131
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
-0.1
0
50
100
150
200
92
Incident Energy (MeV)
57-La-131
P1
P2
P3
P4
P5
P6
P7
P8
P9

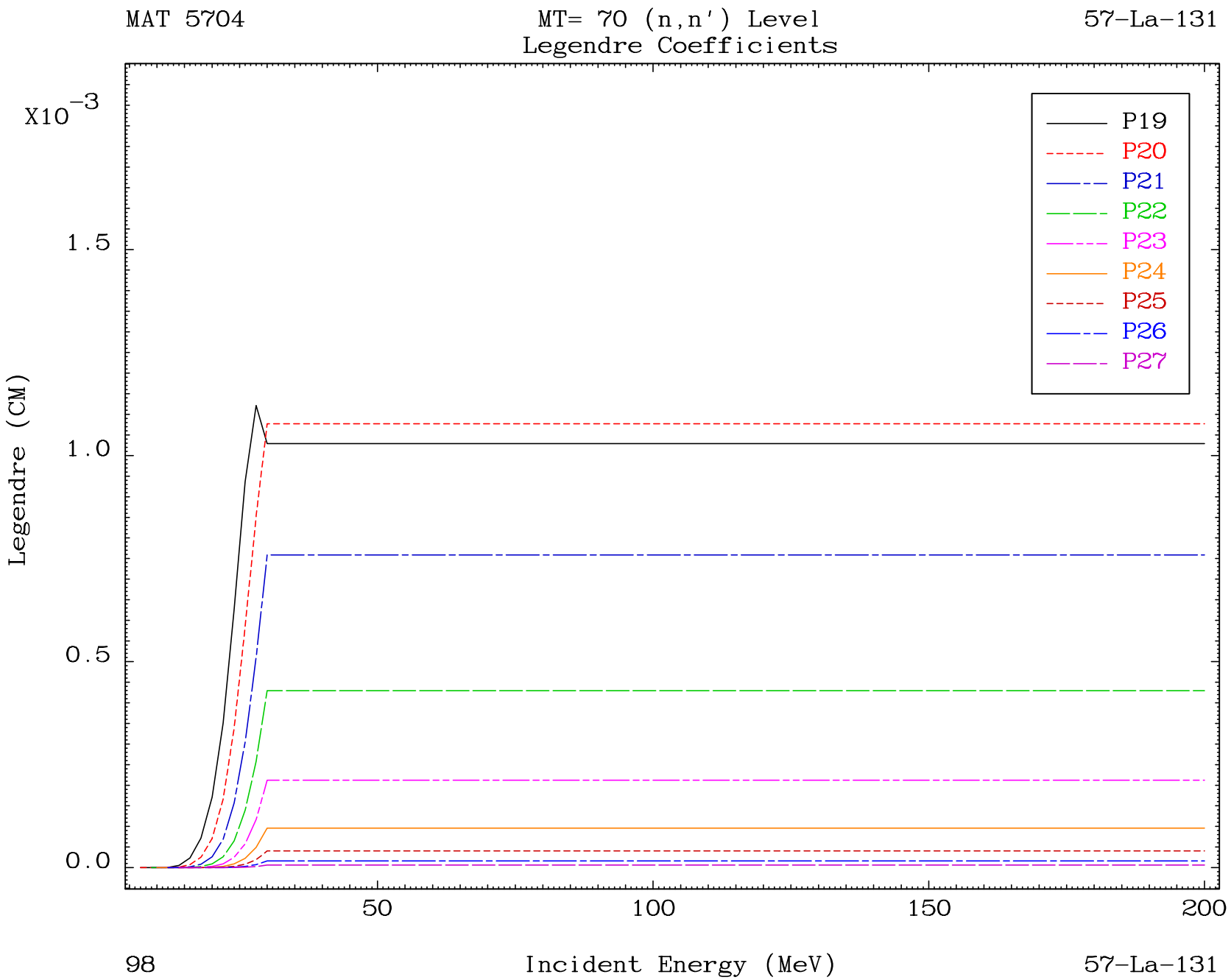

MAT 5704
MT= 69 (n,n') Level
Legendre Coefficients
57-La-131
0.020
0.015
0.010
0.005
0.000
-0.005
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
93
Incident Energy (MeV)
57-La-131

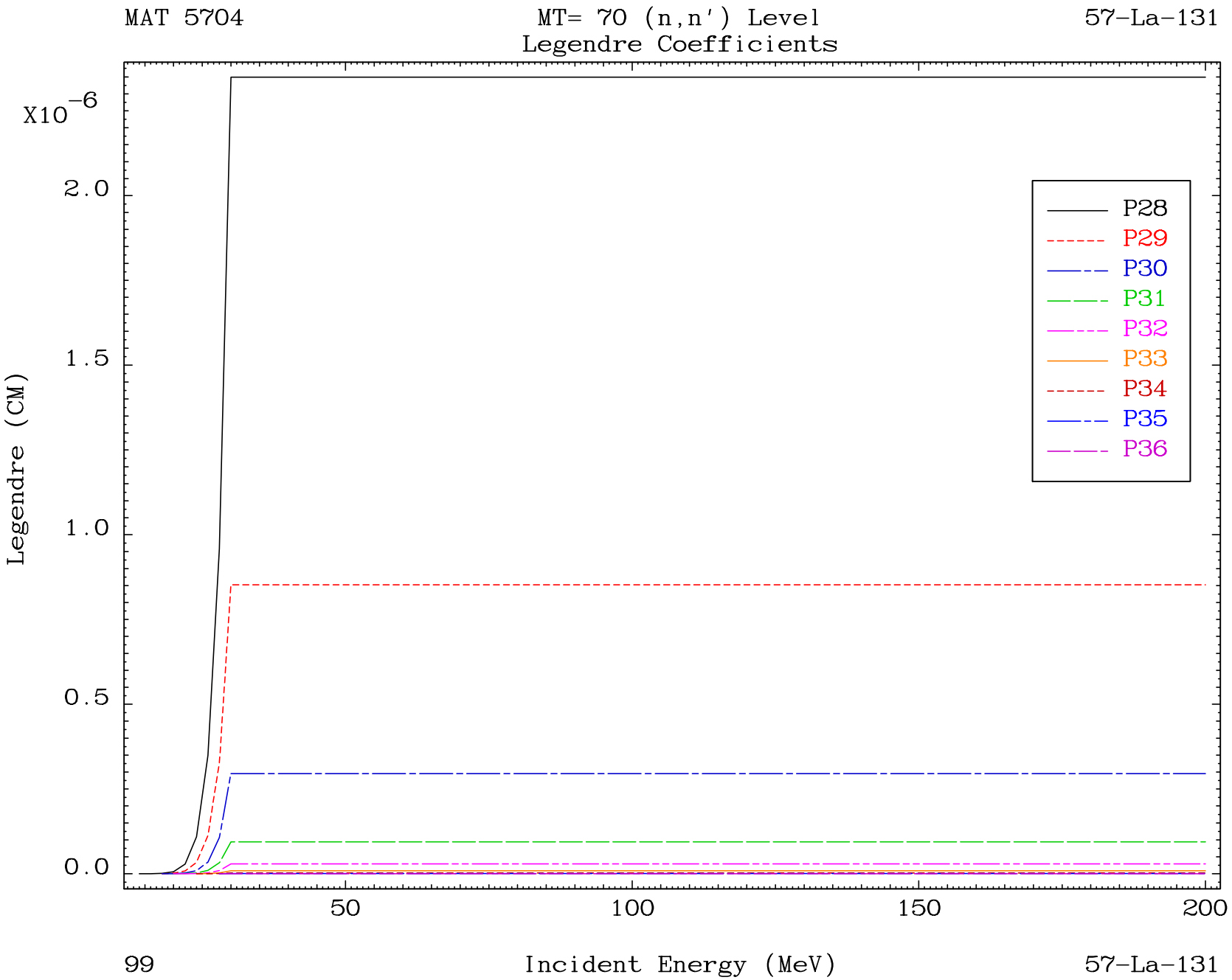

MAT 5704
MT= 69 (n,n') Level
Legendre Coefficients
57-La-131
X10^-3
1.5
1.0
0.5
0.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
94
Incident Energy (MeV)
57-La-131

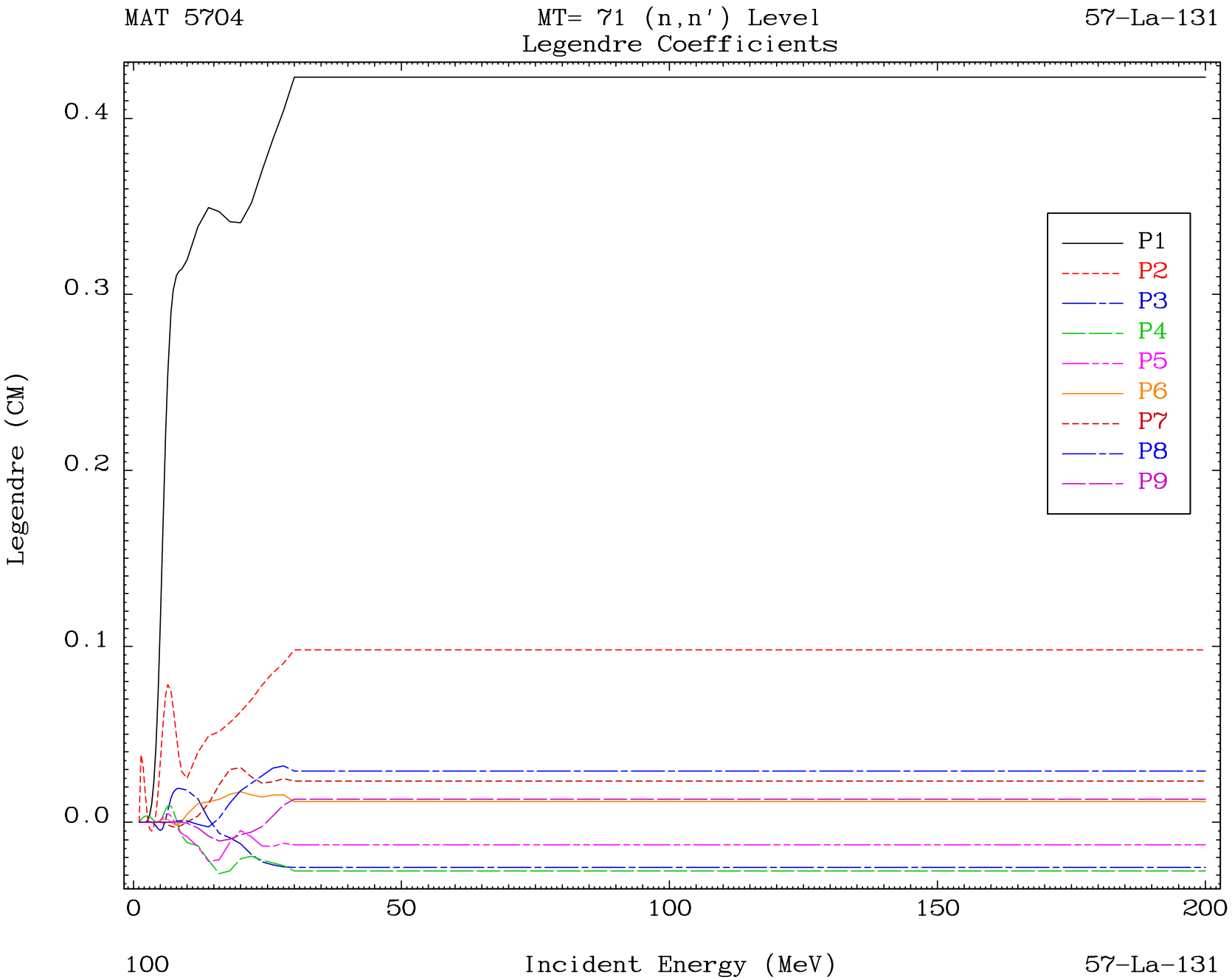

MAT 5704
MT= 69 (n,n') Level
Legendre Coefficients
57-La-131
X10^-6
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
P35
P36
50
100
150
200
95
Incident Energy (MeV)
57-La-131

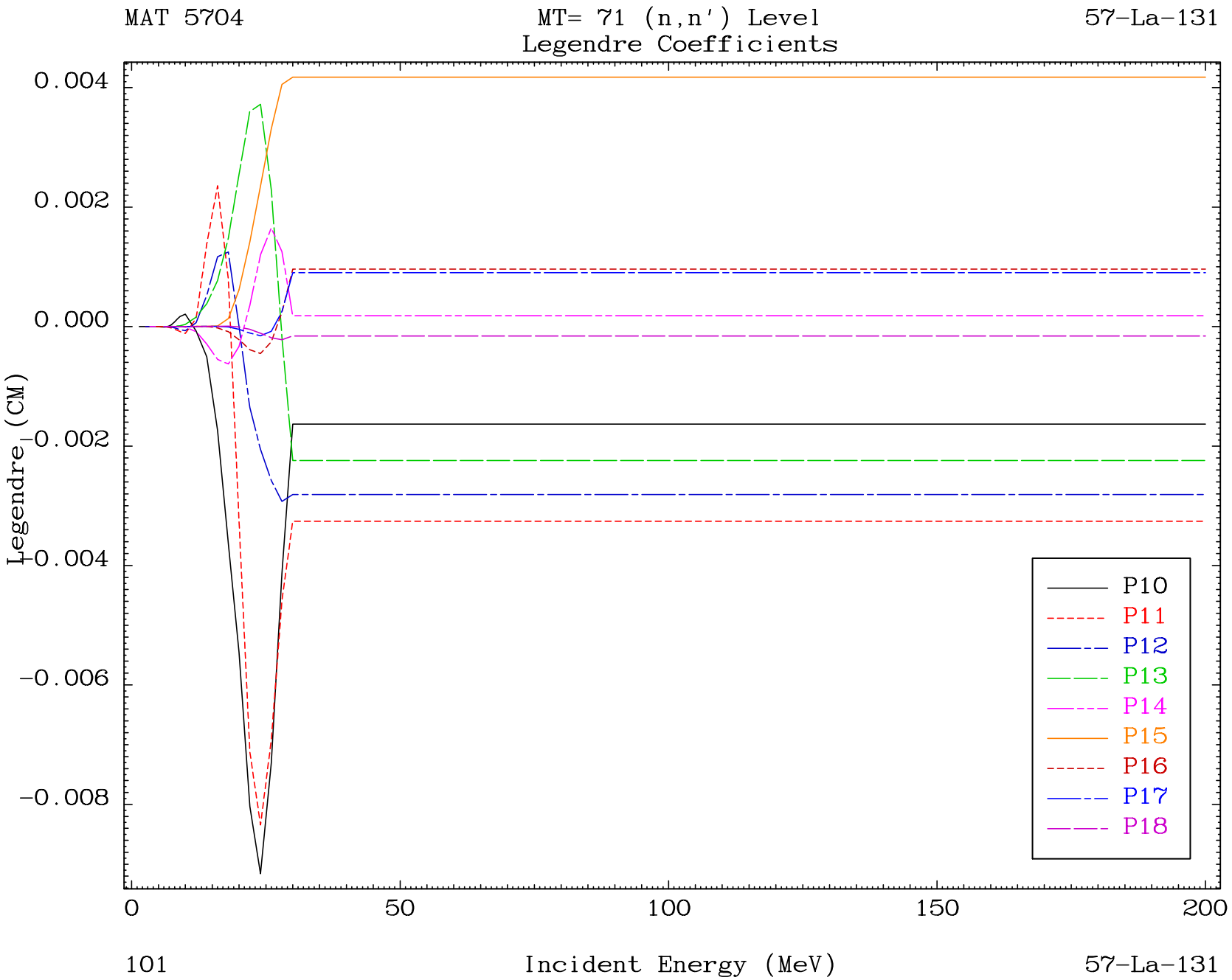

MAT 5704
MT= 70 (n,n') Level
Legendre Coefficients
57-La-131
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
-0.1
0
50
100
150
200
96
Incident Energy (MeV)
57-La-131
P1
P2
P3
P4
P5
P6
P7
P8
P9

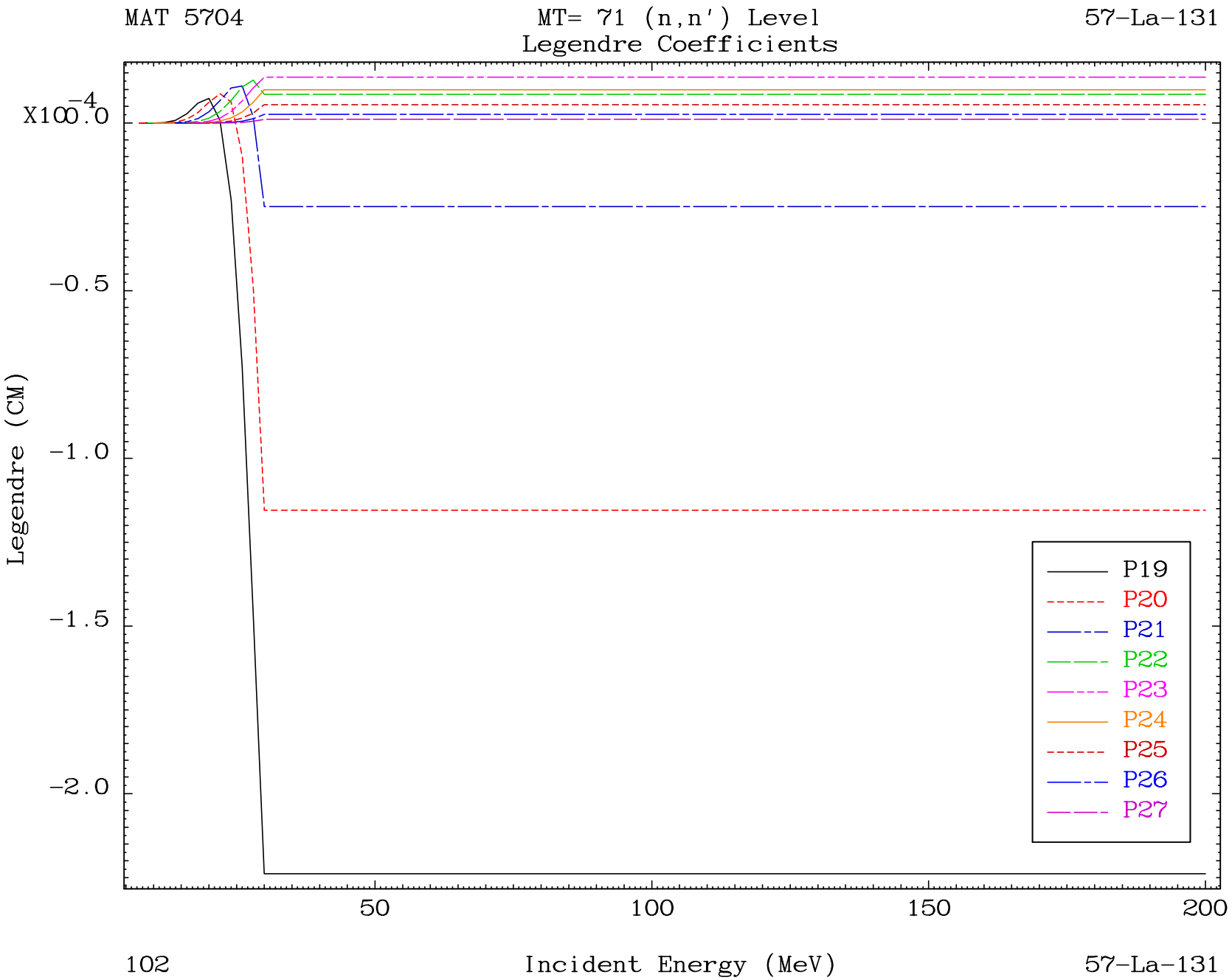

MAT 5704
MT= 70 (n,n') Level
Legendre Coefficients
57-La-131
0.020
0.015
0.010
0.005
0.000
-0.005
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
97
Incident Energy (MeV)
57-La-131

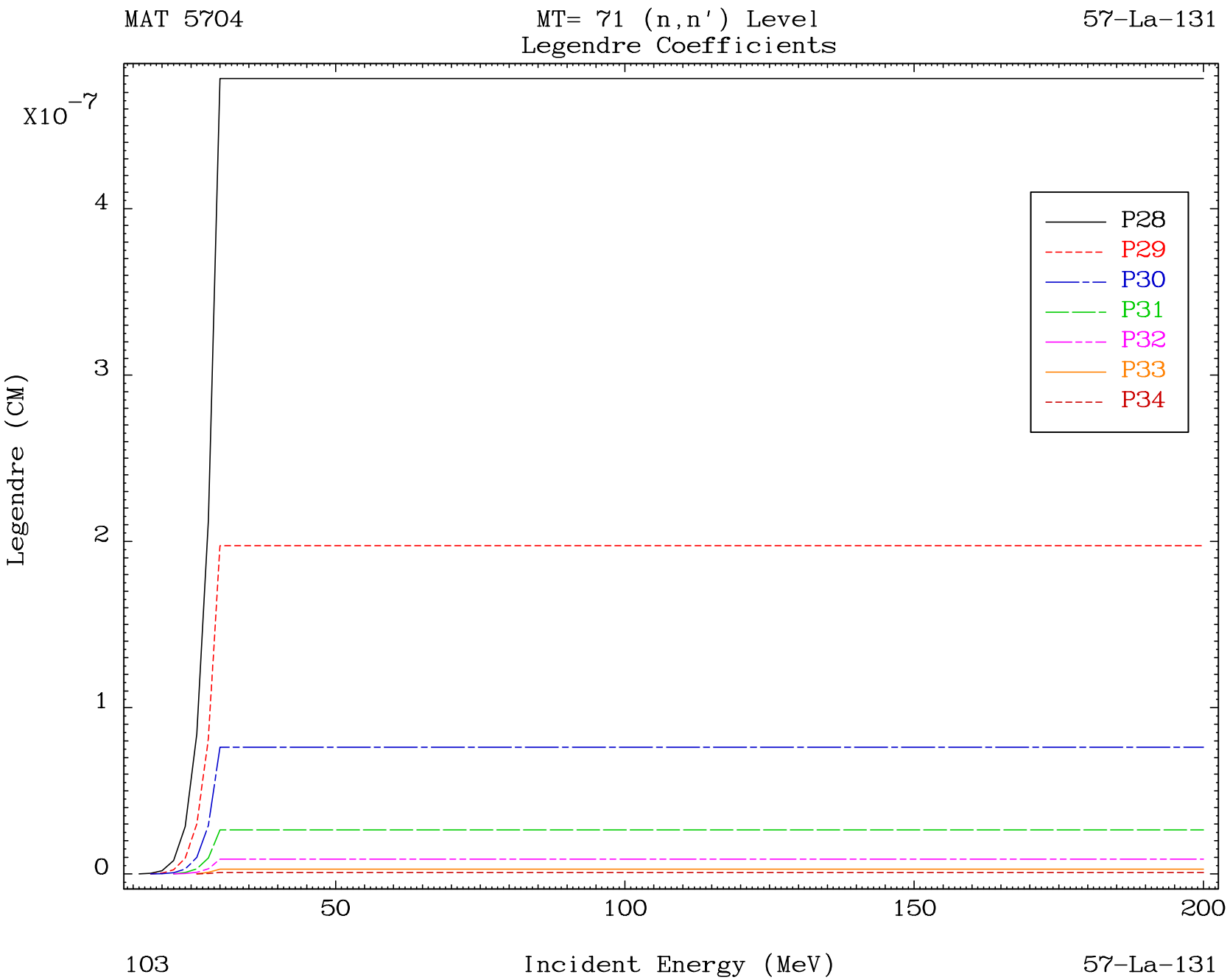

MAT 5704
MT= 70 (n,n') Level
Legendre Coefficients
57-La-131
X10-3
1.5
1.0
0.5
0.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
98
Incident Energy (MeV)
57-La-131

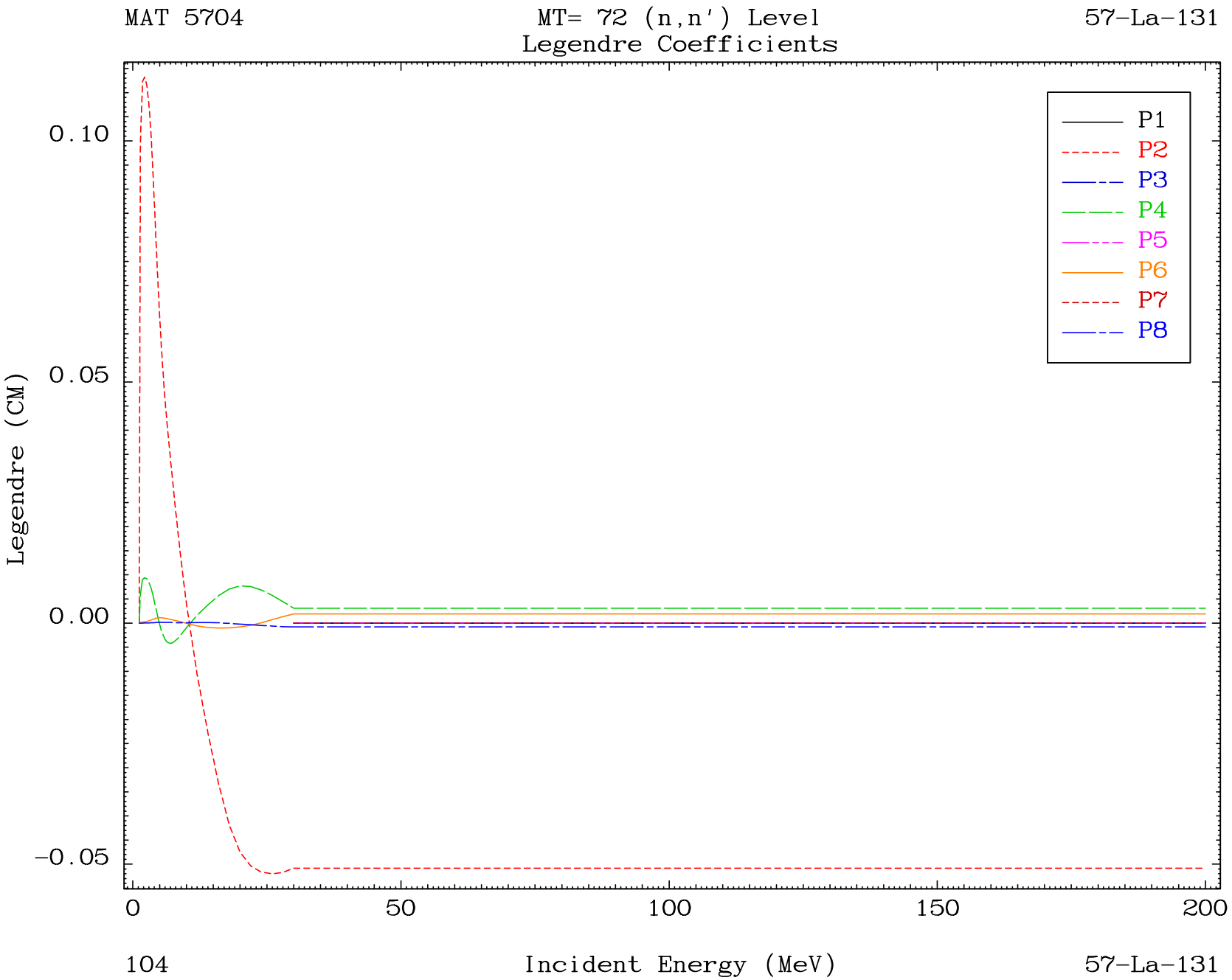

MAT 5704
MT= 70 (n,n') Level
Legendre Coefficients
57-La-131
X10^-6
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
P35
P36
50
100
150
200
99
Incident Energy (MeV)
57-La-131

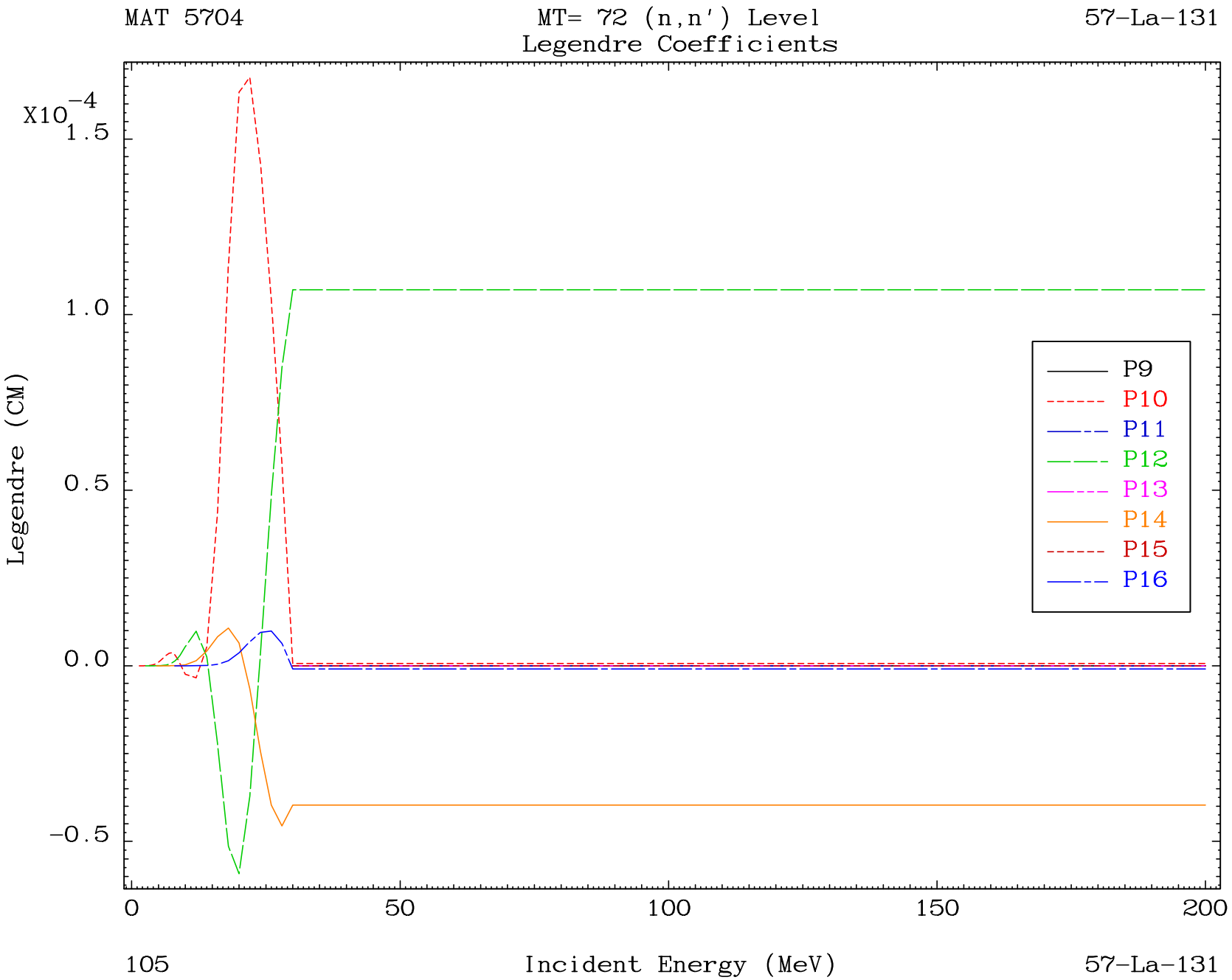

MAT 5704
MT= 71 (n,n') Level
Legendre Coefficients
57-La-131
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
100
Incident Energy (MeV)
57-La-131

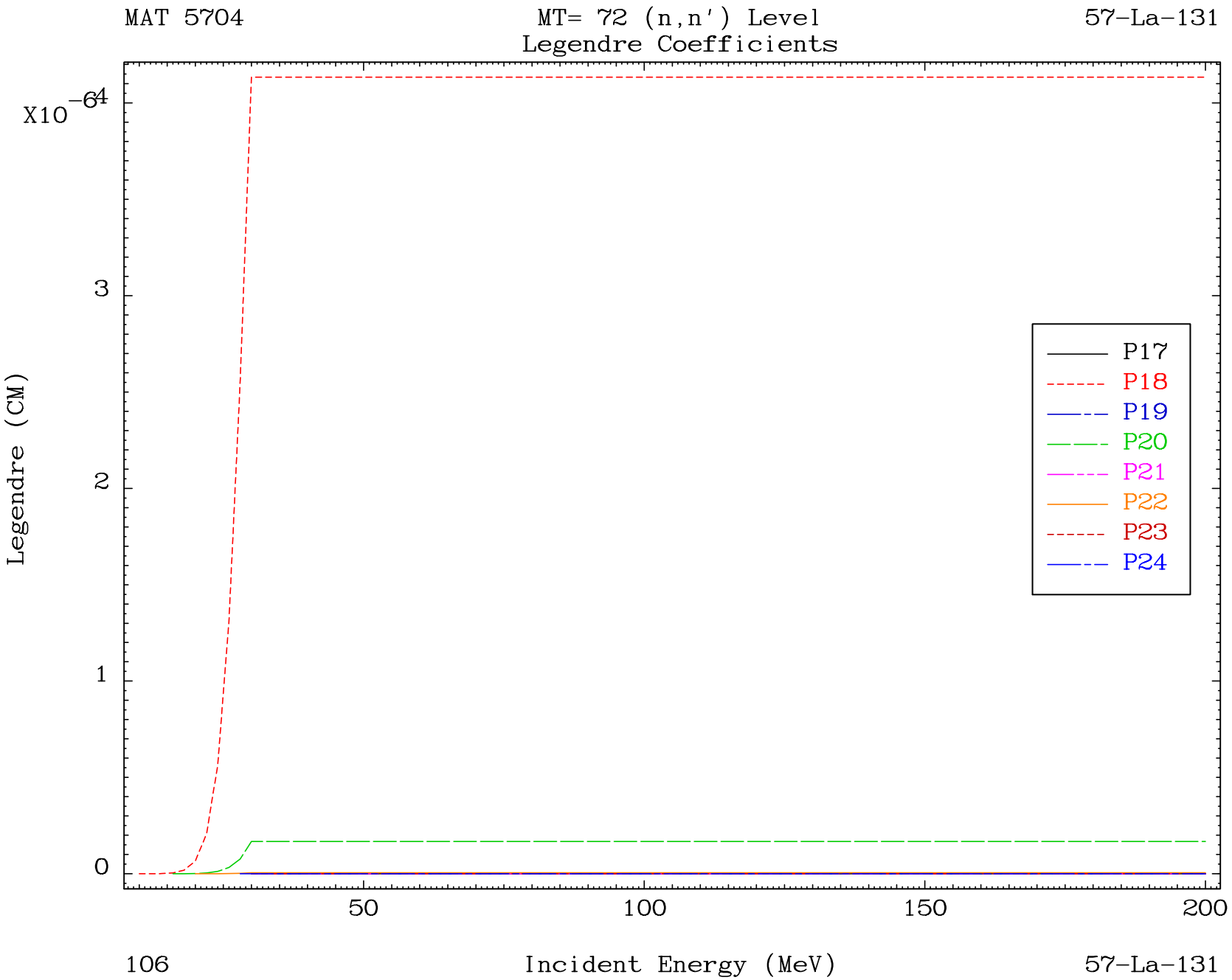

MAT 5704
MT= 71 (n,n') Level
Legendre Coefficients
57-La-131
0.004
0.002
0.000
−0.002
−0.004
−0.006
−0.008
Legendre$_l$ (CM)
0
50
100
150
200
101
Incident Energy (MeV)
57-La-131
P10
P11
P12
P13
P14
P15
P16
P17
P18

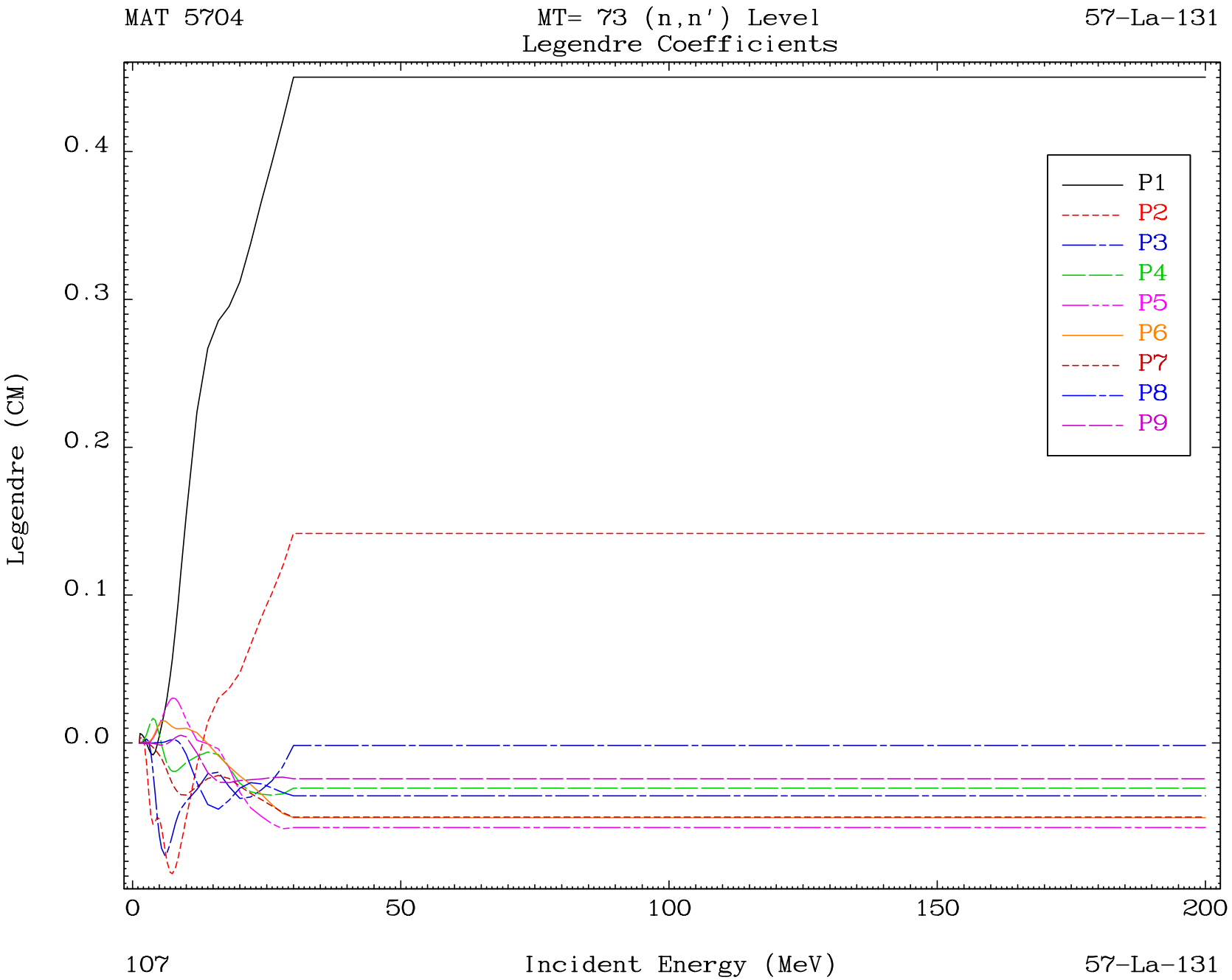

MAT 5704
MT= 71 (n,n') Level
Legendre Coefficients
57-La-131
X10^-4
0.0
-0.5
-1.0
-1.5
-2.0
Legendre (CM)
50
100
150
200
102
Incident Energy (MeV)
57-La-131
P19
P20
P21
P22
P23
P24
P25
P26
P27

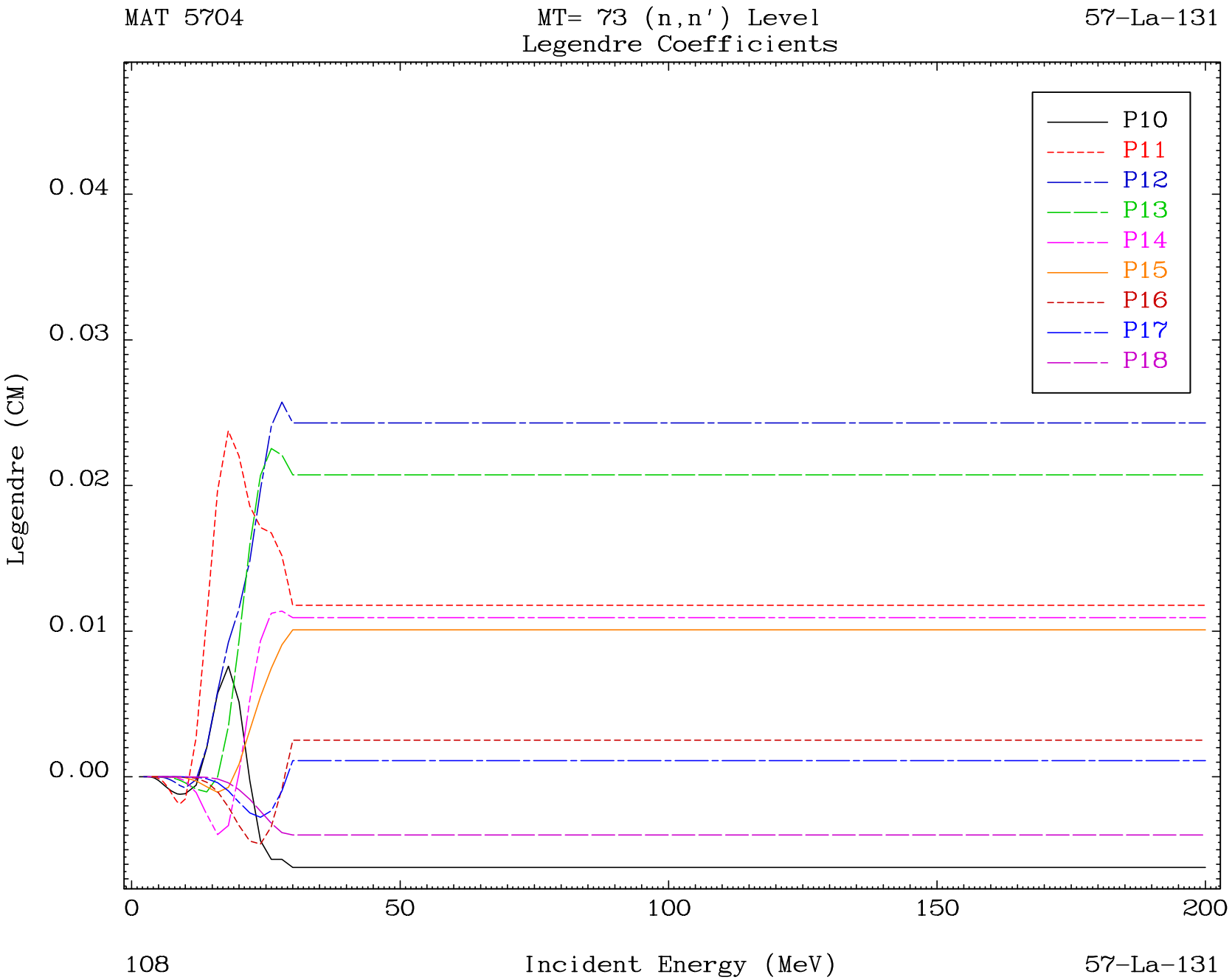

MAT 5704
MT= 71 (n,n') Level
Legendre Coefficients
57-La-131
X10-7
4
3
2
1
0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
103
Incident Energy (MeV)
57-La-131

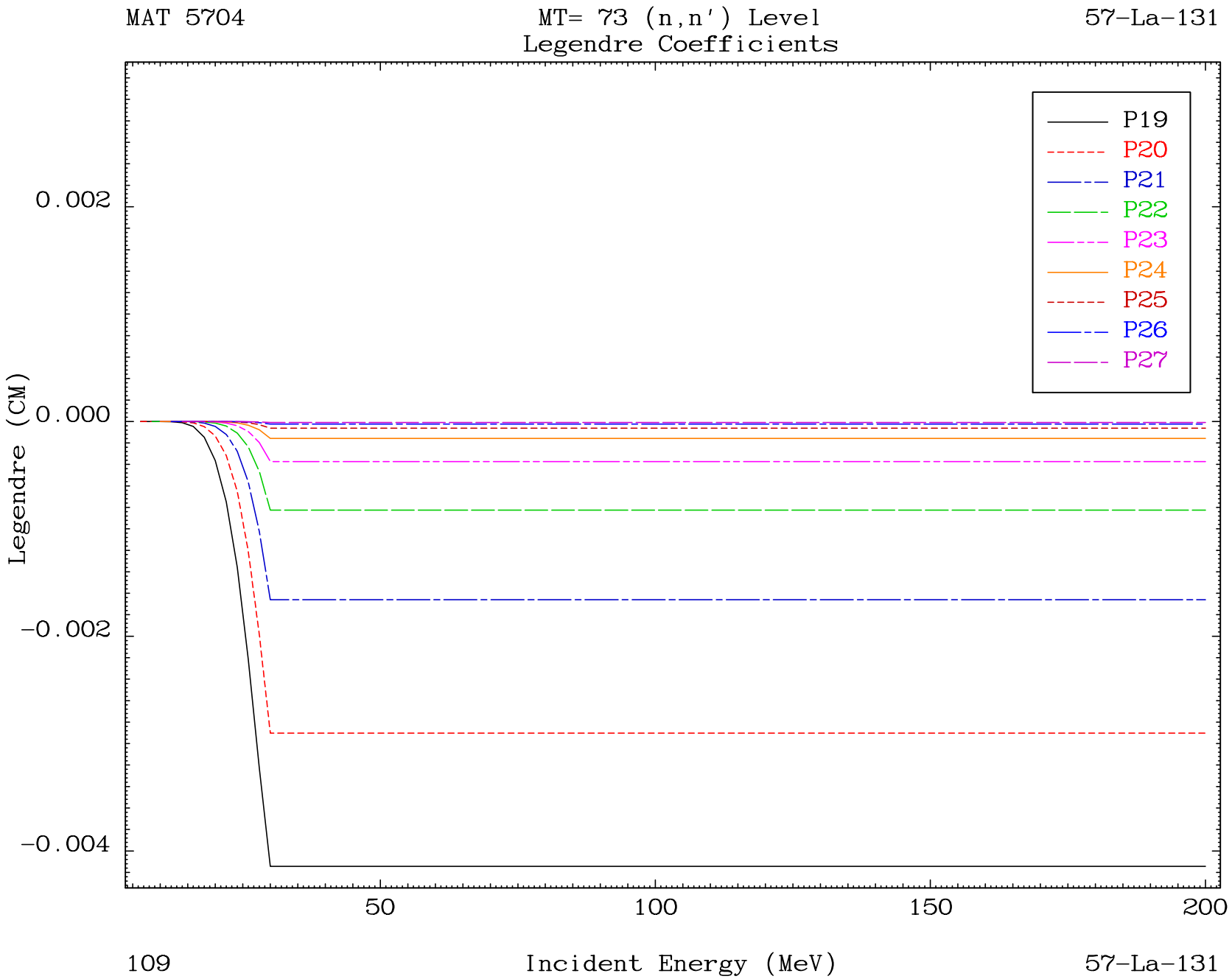

MAT 5704
MT= 72 (n,n') Level
Legendre Coefficients
57-La-131
0.10
0.05
0.00
-0.05
Legendre (CM)
0
50
100
150
200
104
Incident Energy (MeV)
57-La-131
P1
P2
P3
P4
P5
P6
P7
P8

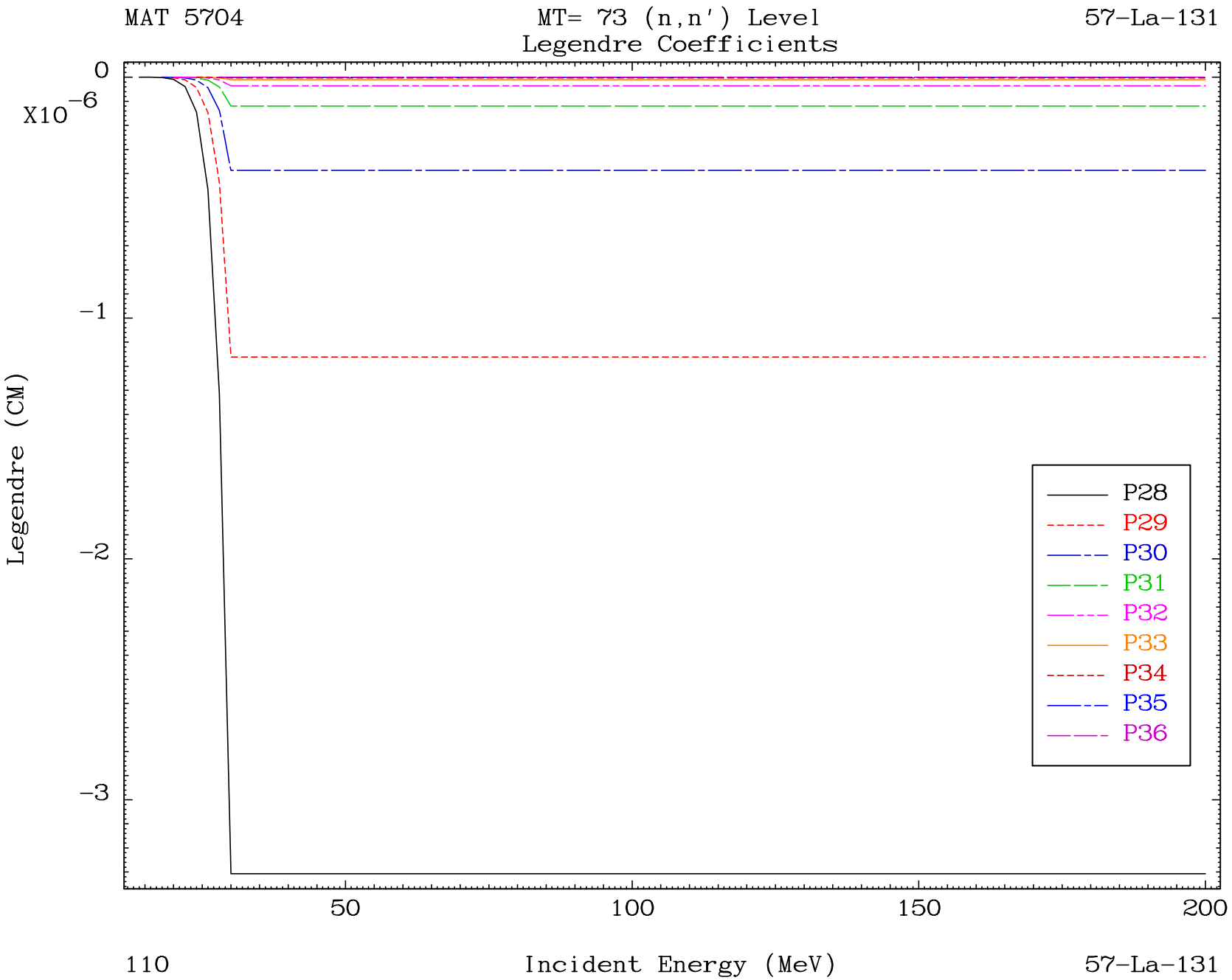

MAT 5704
MT= 72 (n,n') Level
Legendre Coefficients
57-La-131
X10^-4
1.5
1.0
0.5
0.0
-0.5
Legendre (CM)
P9
P10
P11
P12
P13
P14
P15
P16
0
50
100
150
200
105
Incident Energy (MeV)
57-La-131

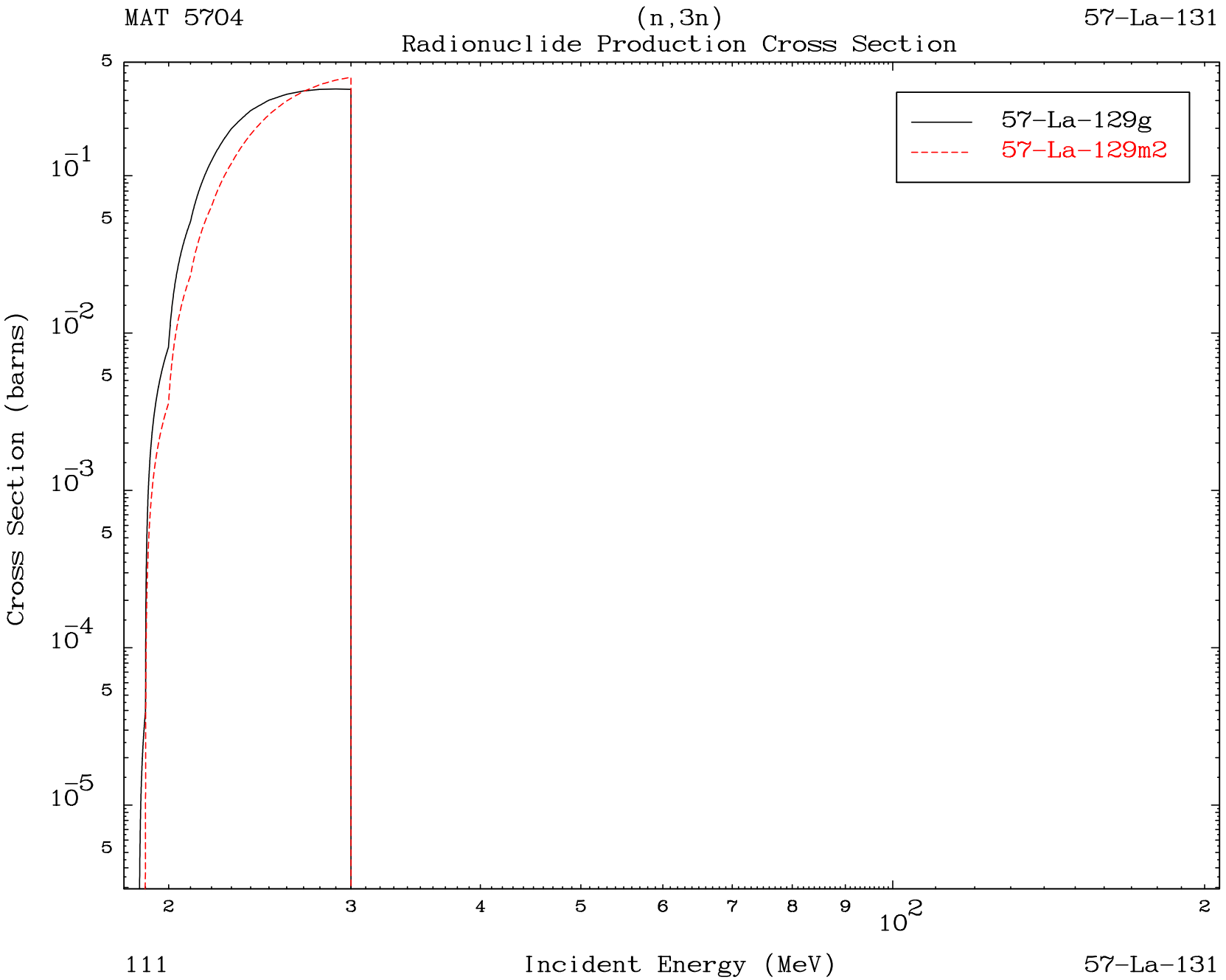

MAT 5704
MT= 72 (n,n') Level
Legendre Coefficients
57-La-131
X10 -6 4
3
2
1
0
Legendre (CM)
50
100
150
200
106
Incident Energy (MeV)
57-La-131
P17
P18
P19
P20
P21
P22
P23
P24

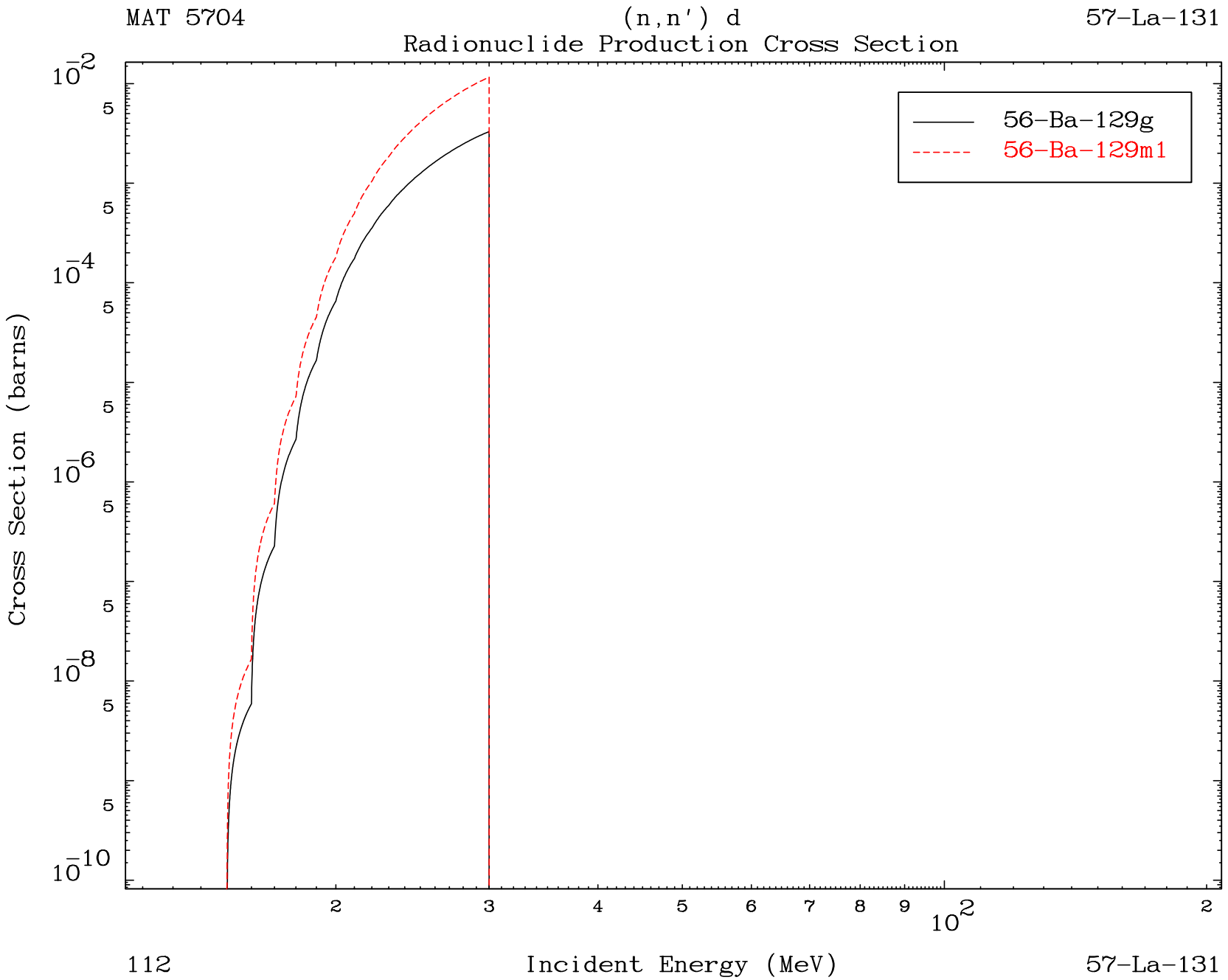

MAT 5704
MT= 73 (n,n') Level
Legendre Coefficients
57-La-131
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
107
Incident Energy (MeV)
57-La-131

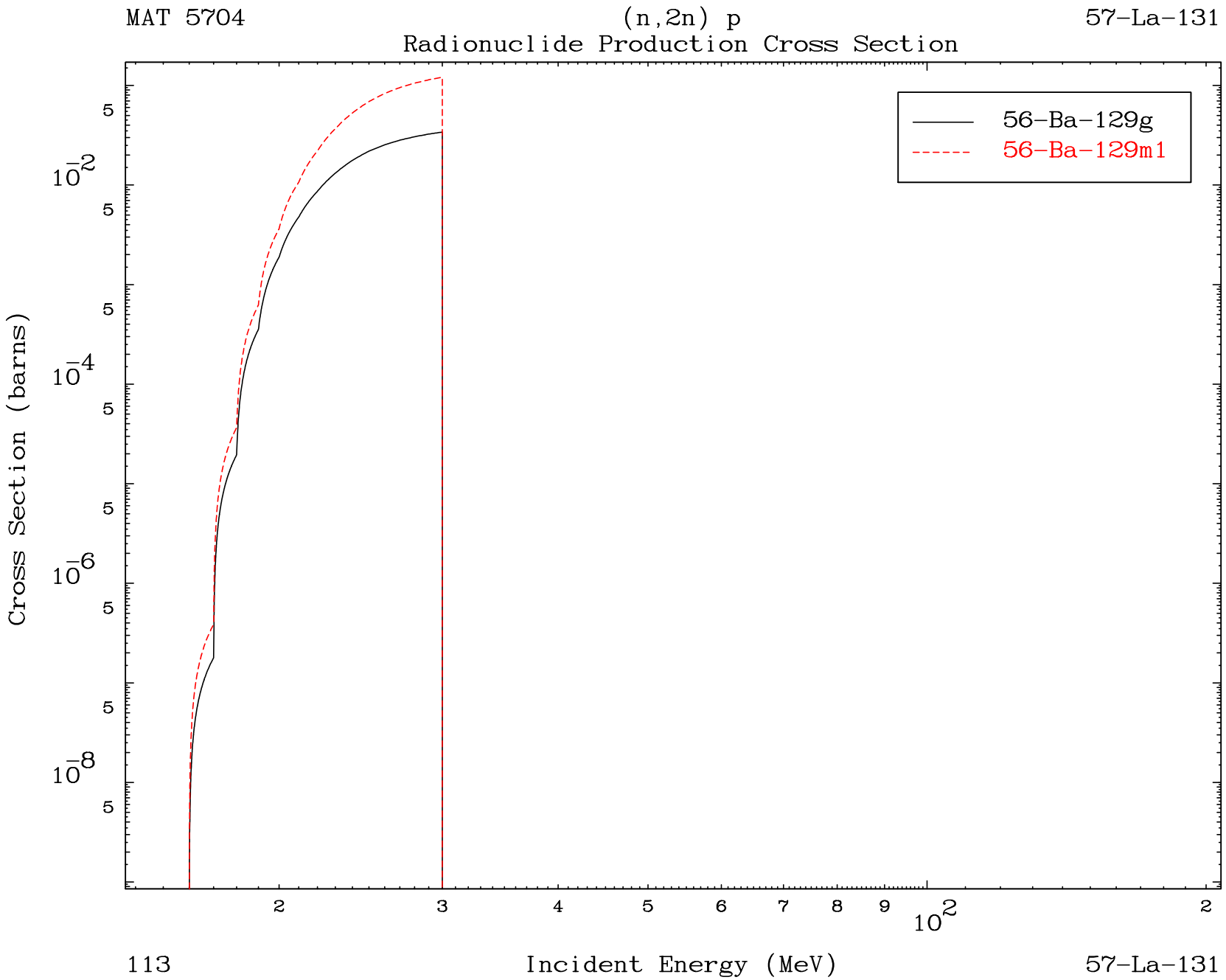

MAT 5704
MT= 73 (n,n') Level
Legendre Coefficients
57-La-131
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.04
0.03
0.02
0.01
0.00
Legendre (CM)
0
50
100
150
200
108
Incident Energy (MeV)
57-La-131

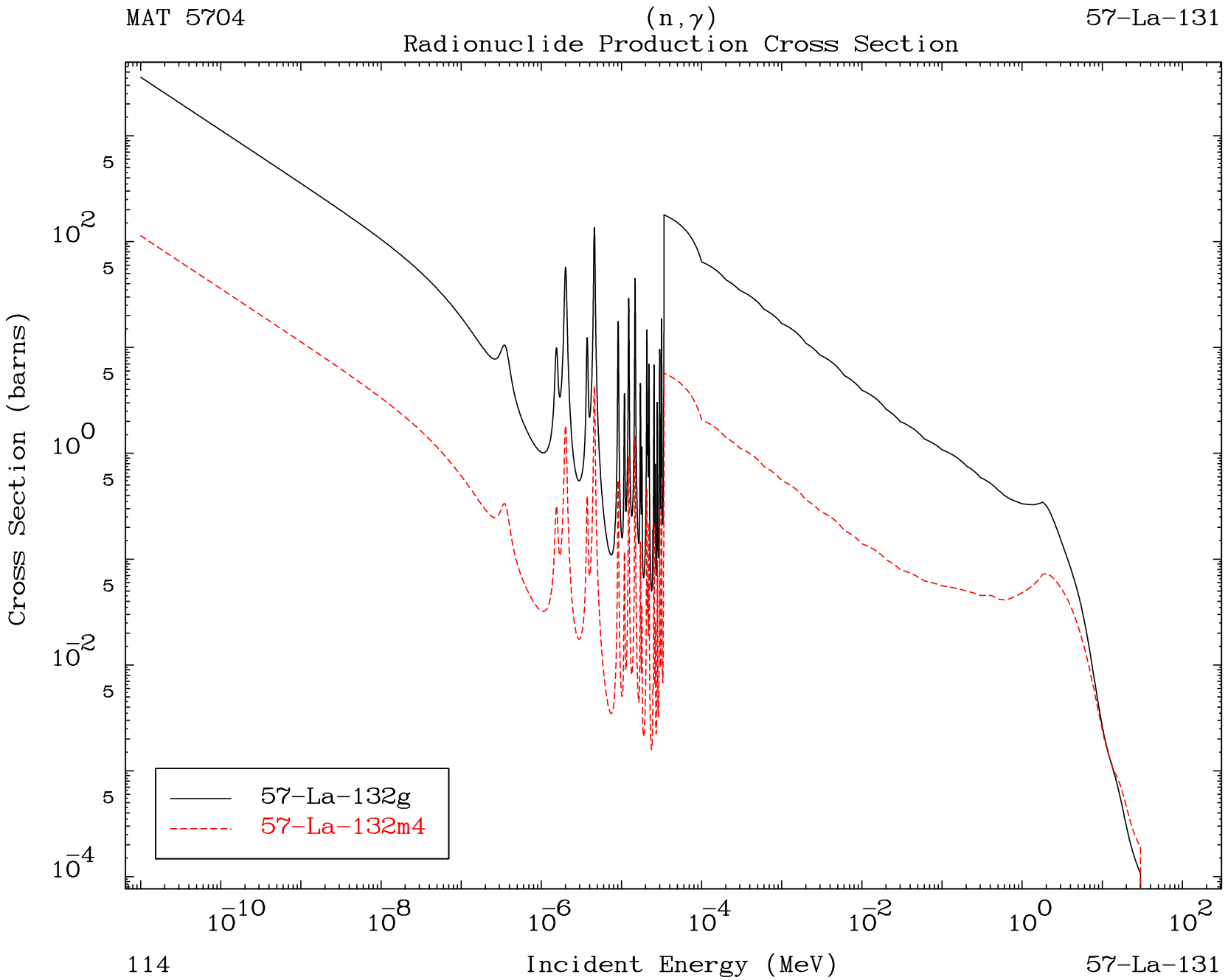

MAT 5704
MT= 73 (n,n') Level
Legendre Coefficients
57-La-131
P19
P20
P21
P22
P23
P24
P25
P26
P27
0.002
0.000
−0.002
−0.004
Legendre (CM)
50
100
150
200
109
Incident Energy (MeV)
57-La-131

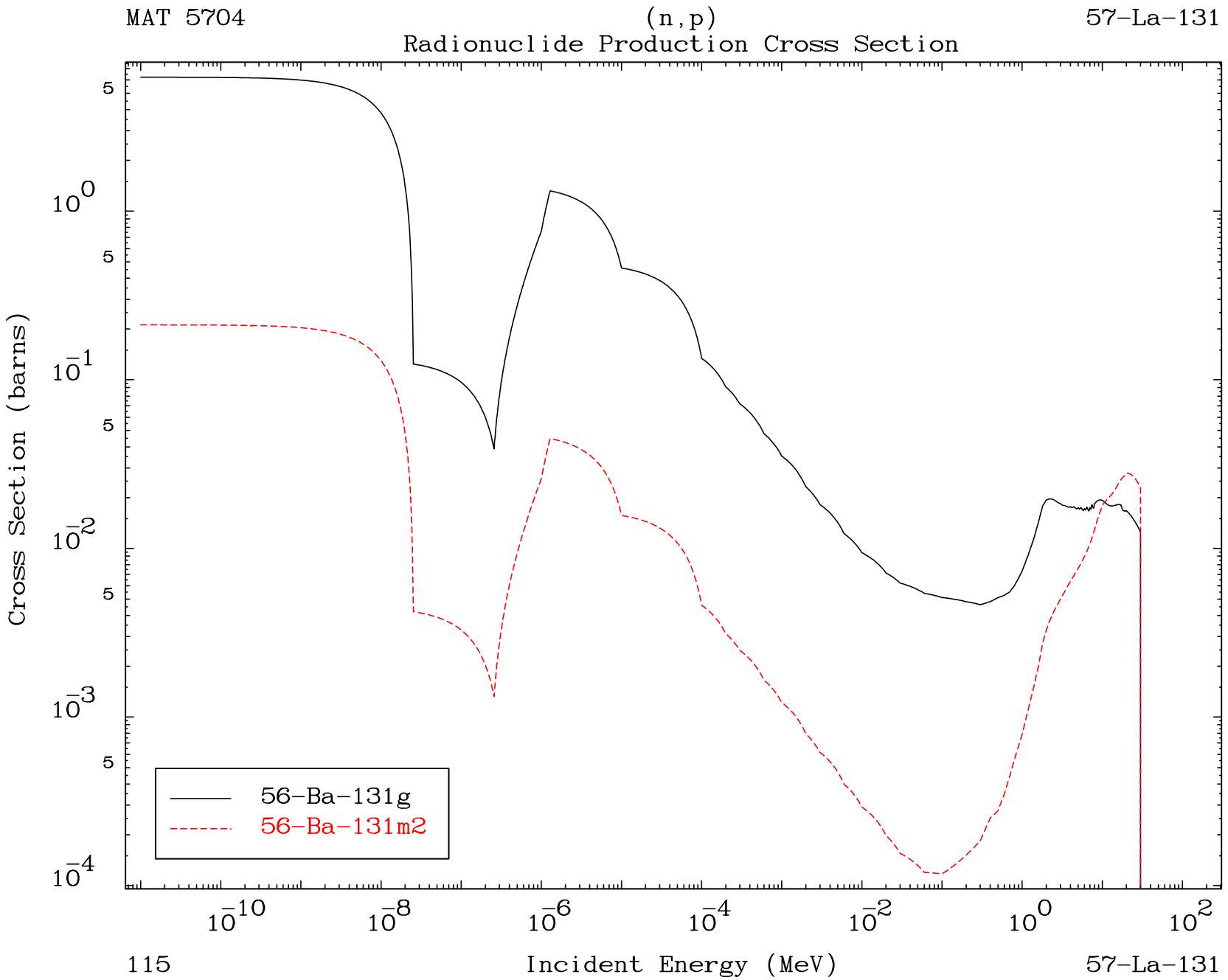

MAT 5704
MT= 73 (n,n') Level
Legendre Coefficients
57-La-131
0
X10^-6
-1
-2
-3
Legendre (CM)
50
100
150
200
110
Incident Energy (MeV)
57-La-131
P28
P29
P30
P31
P32
P33
P34
P35
P36

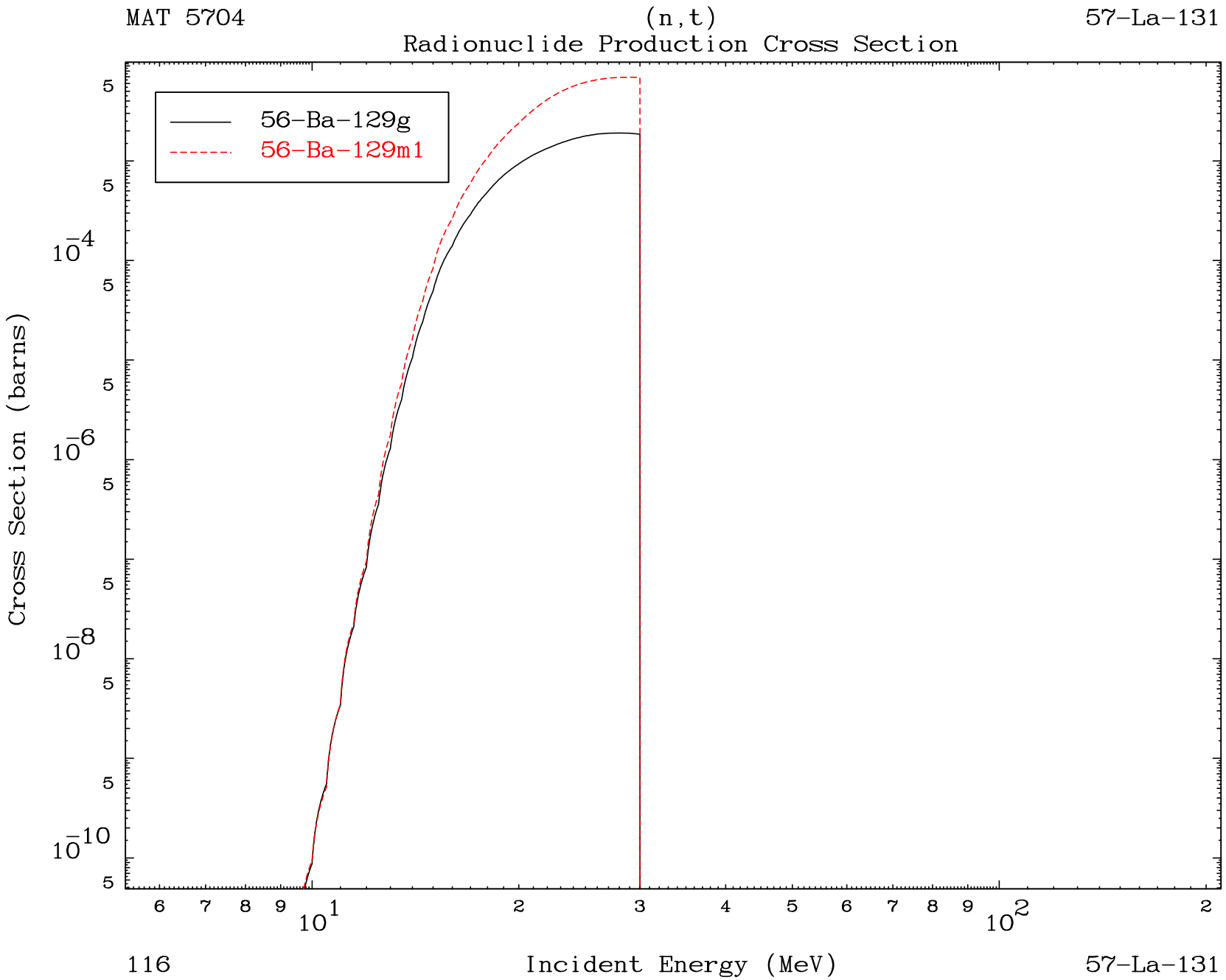

MAT 5704
(n,3n)
57-La-131
Radionuclide Production Cross Section
57-La-129g
57-La-129m2
Cross Section (barns)
Incident Energy (MeV)
111
57-La-131

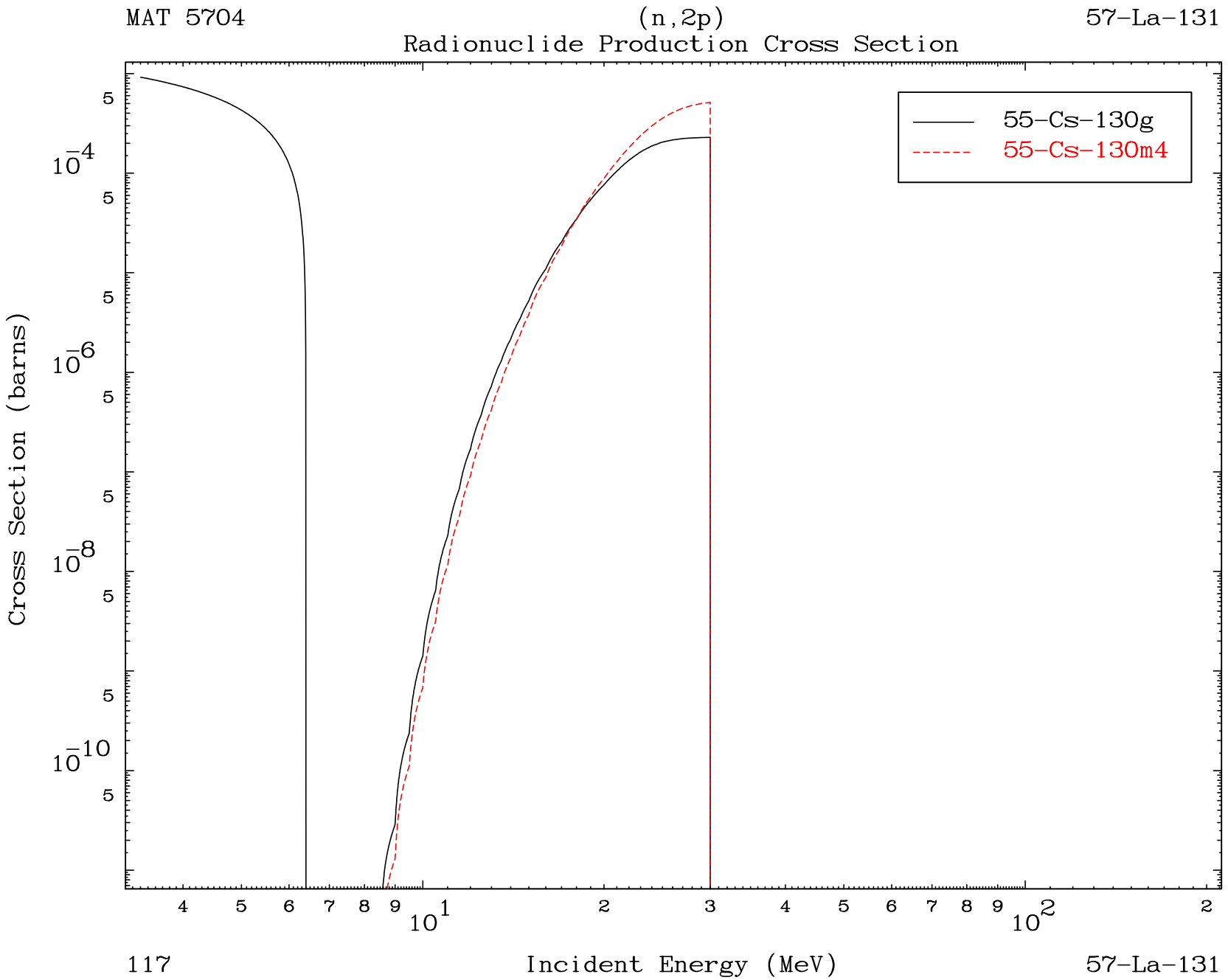

MAT 5704
(n,n') d
57-La-131
Radionuclide Production Cross Section
56-Ba-129g
56-Ba-129m1
Cross Section (barns)
Incident Energy (MeV)
112
57-La-131

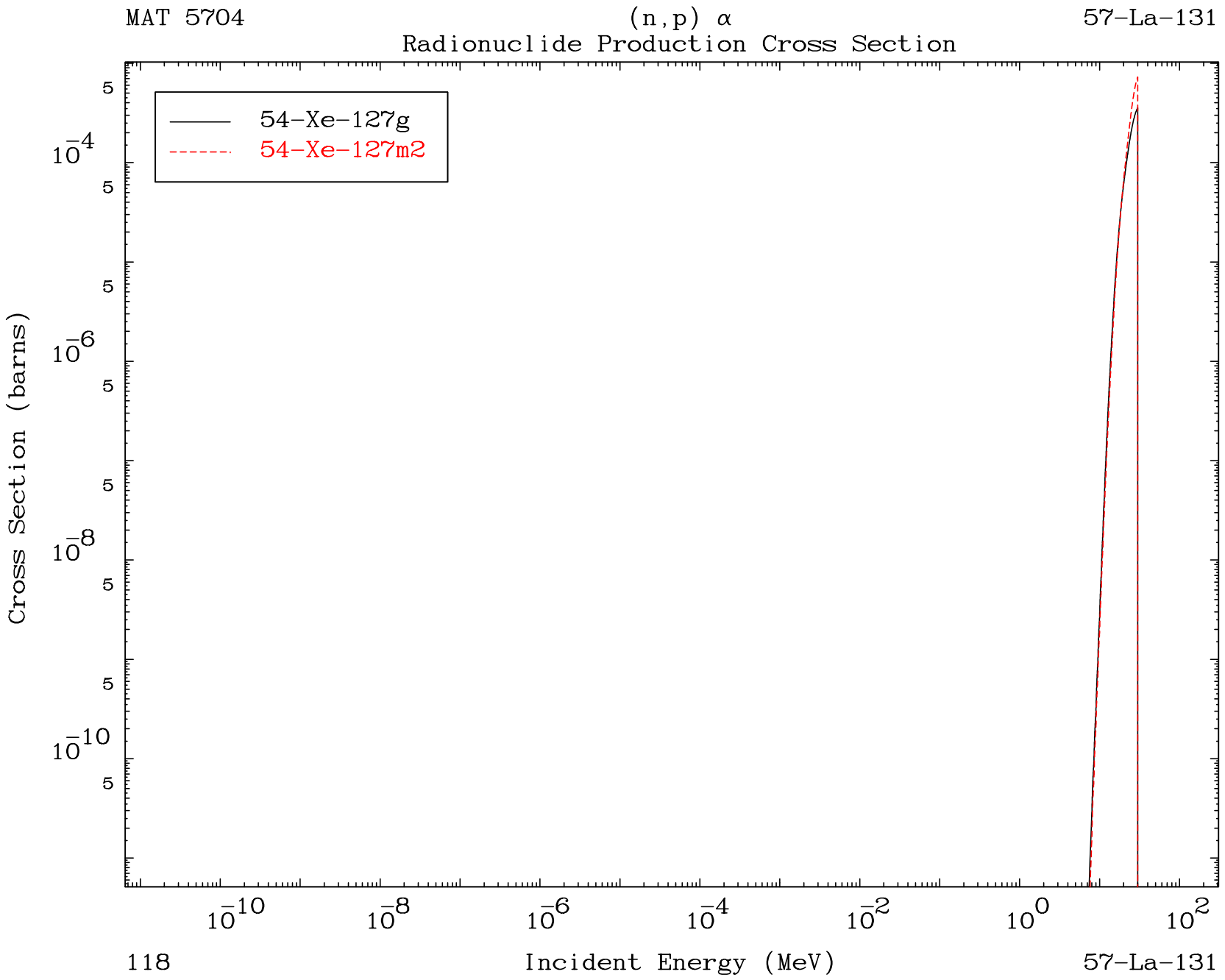

MAT 5704
(n,2n) p
57-La-131
Radionuclide Production Cross Section
56-Ba-129g
56-Ba-129m1
Cross Section (barns)
10-2
10-4
10-6
10-8
5
2
3
4
5
6
7
8
9
102
2
113
Incident Energy (MeV)
57-La-131


MAT 5704
(n,γ)
57-La-131
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
Incident Energy (MeV)
57-La-132g
57-La-132m4
114
57-La-131


MAT 5704
(n,p)
57-La-131
Radionuclide Production Cross Section
Cross Section (barns)
Incident Energy (MeV)
56-Ba-131g
56-Ba-131m2
115
57-La-131


MAT 5704
(n,t)
57-La-131
Radionuclide Production Cross Section
56-Ba-129g
56-Ba-129m1
Cross Section (barns)
Incident Energy (MeV)
116
57-La-131


MAT 5704
(n,2p)
57-La-131
Radionuclide Production Cross Section
55-Cs-130g
55-Cs-130m4
Cross Section (barns)
Incident Energy (MeV)
117
57-La-131


MAT 5704
(n,p) α
57-La-131
Radionuclide Production Cross Section
54-Xe-127g
54-Xe-127m2
Cross Section (barns)
Incident Energy (MeV)
118
57-La-131