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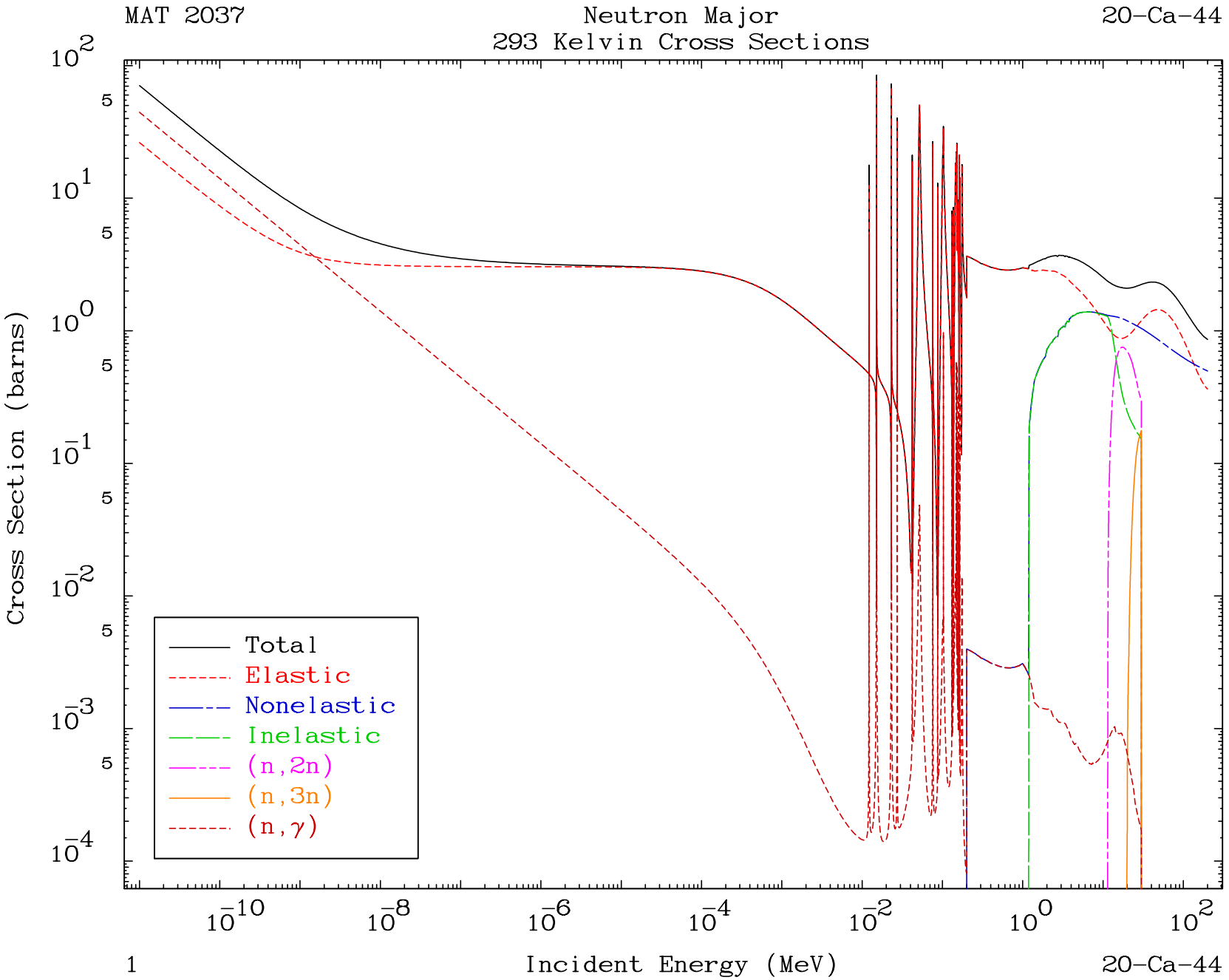
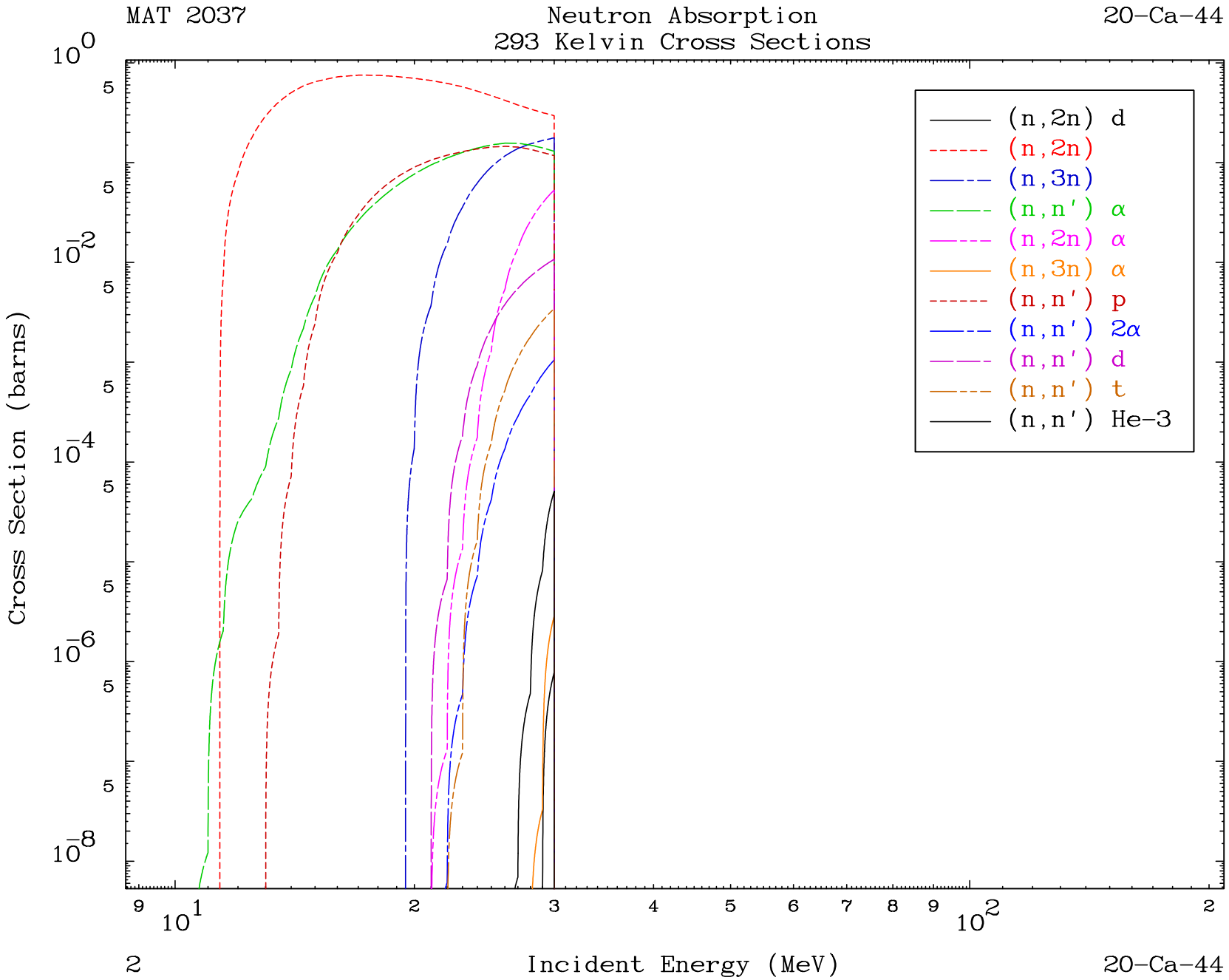
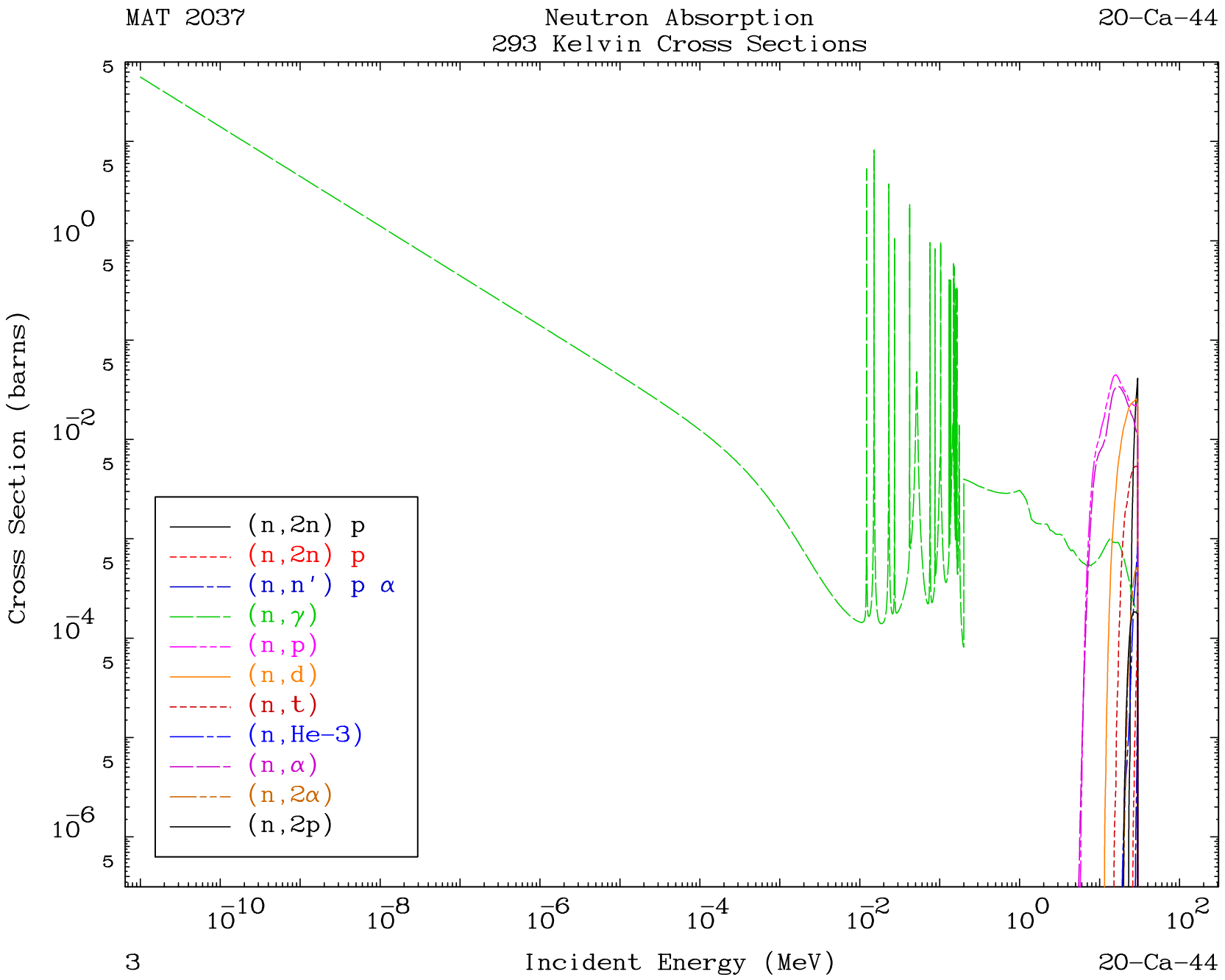
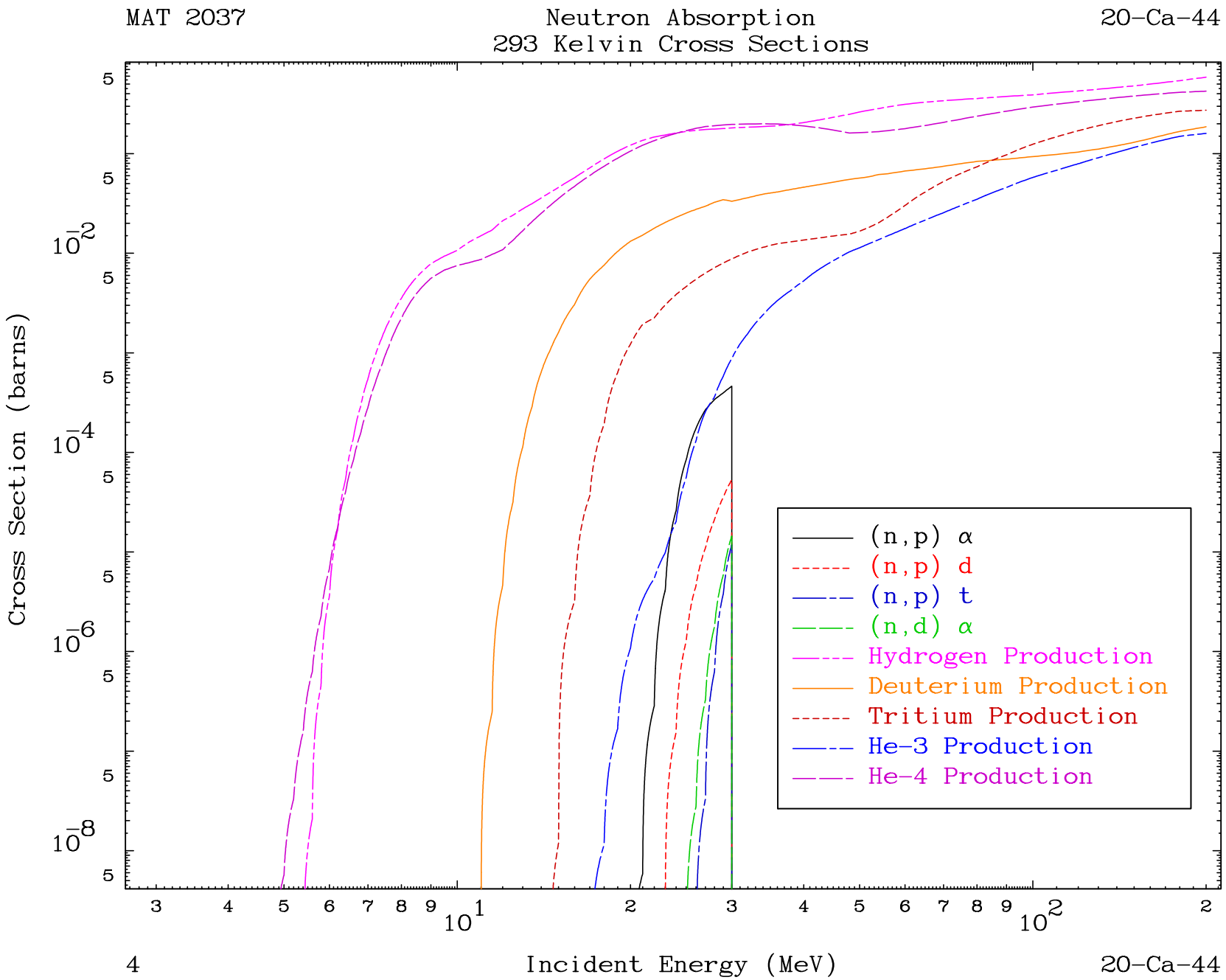
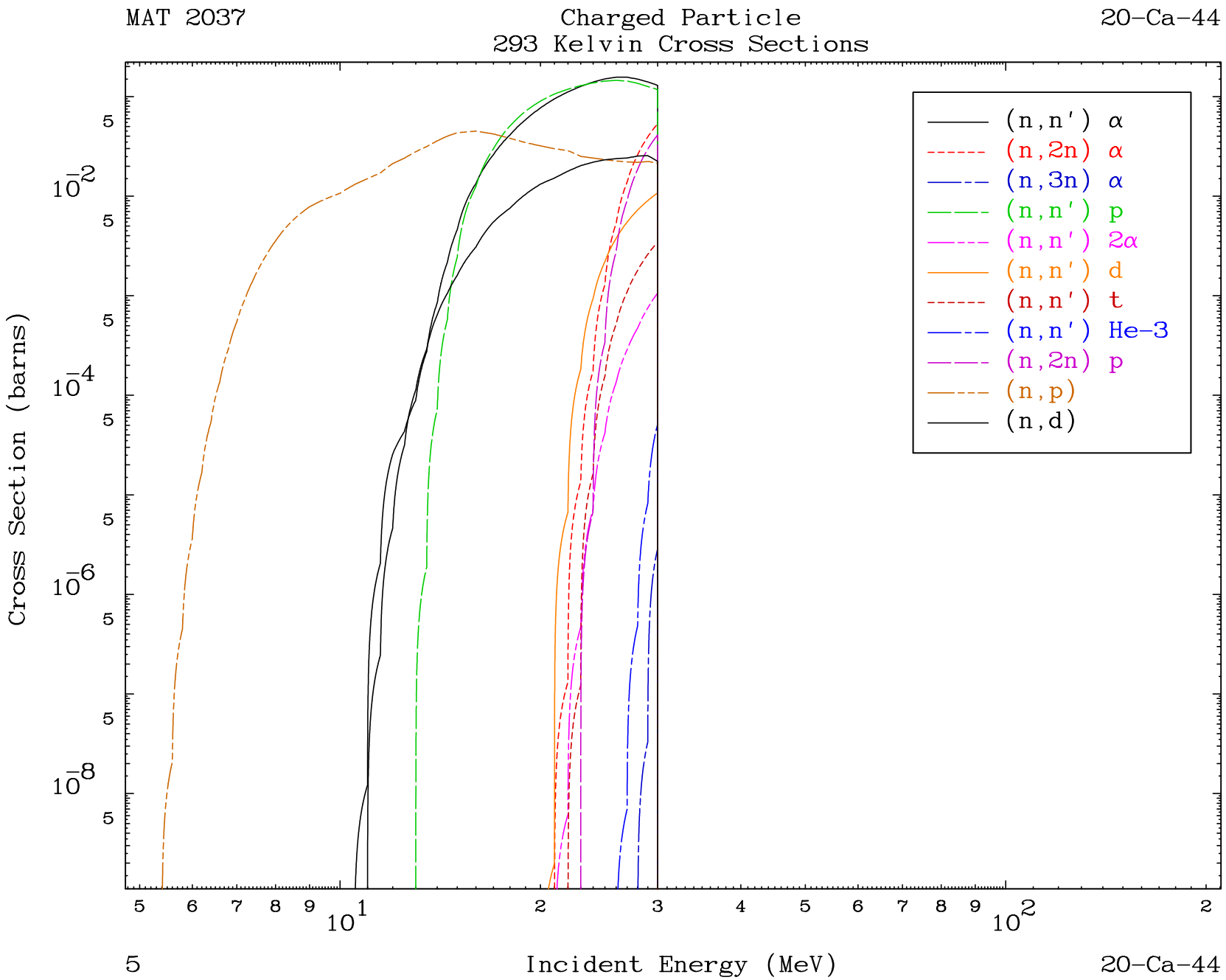
Press Mouse Button to Start

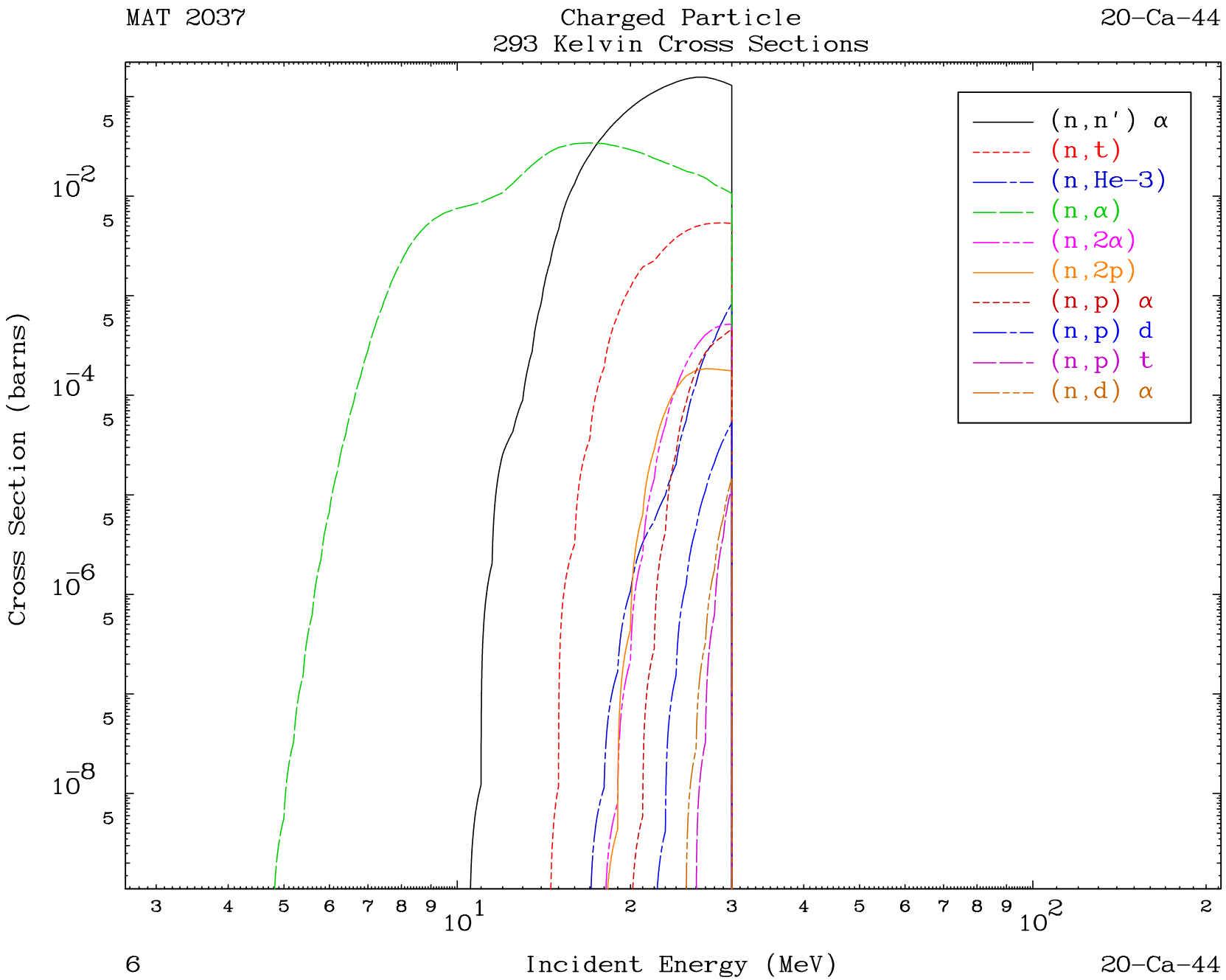

MAT 2037
Neutron Major
293 Kelvin Cross Sections
20-Ca-44
Cross Section (barns)
Incident Energy (MeV)
Total
Elastic
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)
1
20-Ca-44

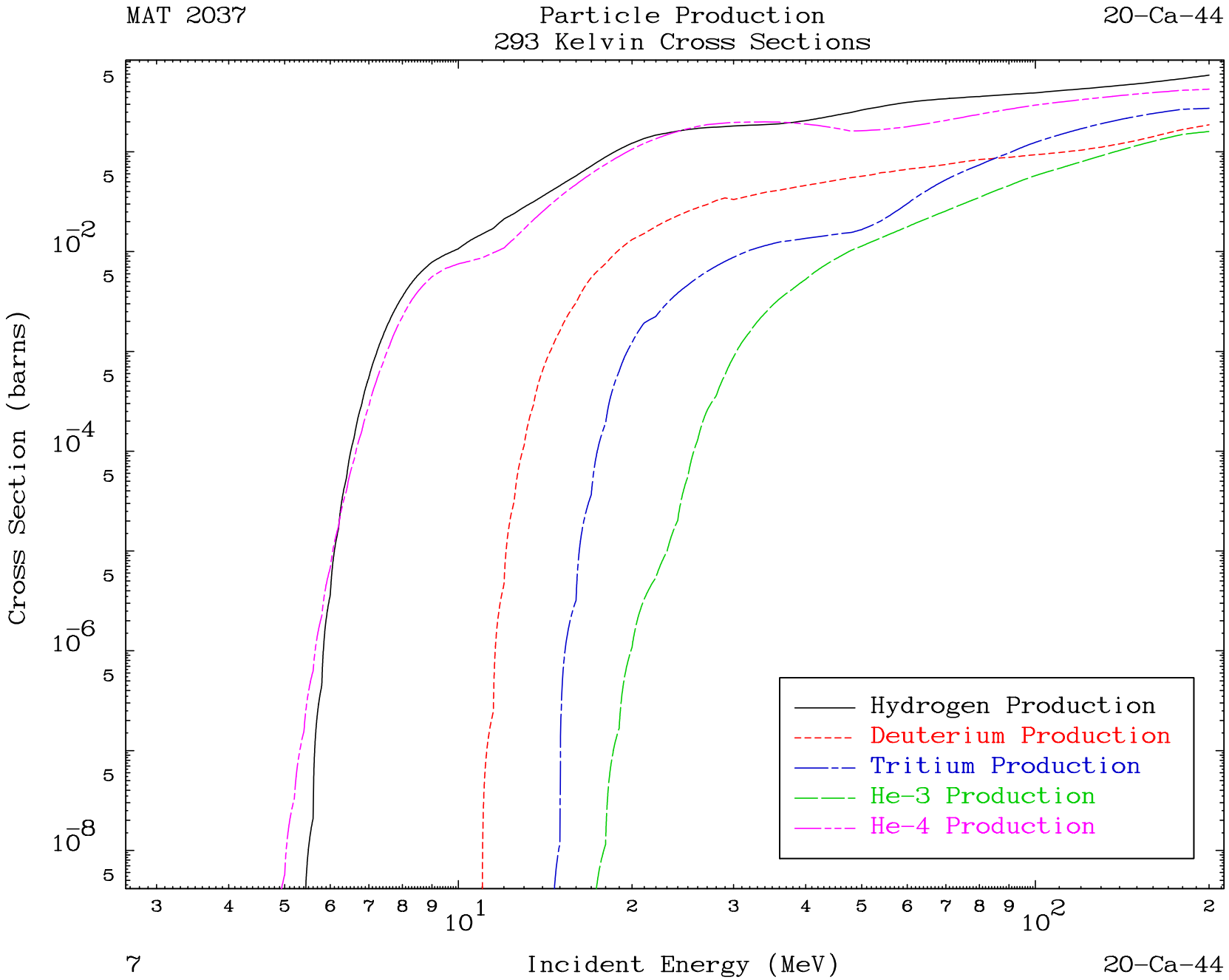

MAT 2037
Neutron Absorption
293 Kelvin Cross Sections
20-Ca-44
Cross Section (barns)
Incident Energy (MeV)
20-Ca-44
(n,2n) d
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
(n,n') He-3

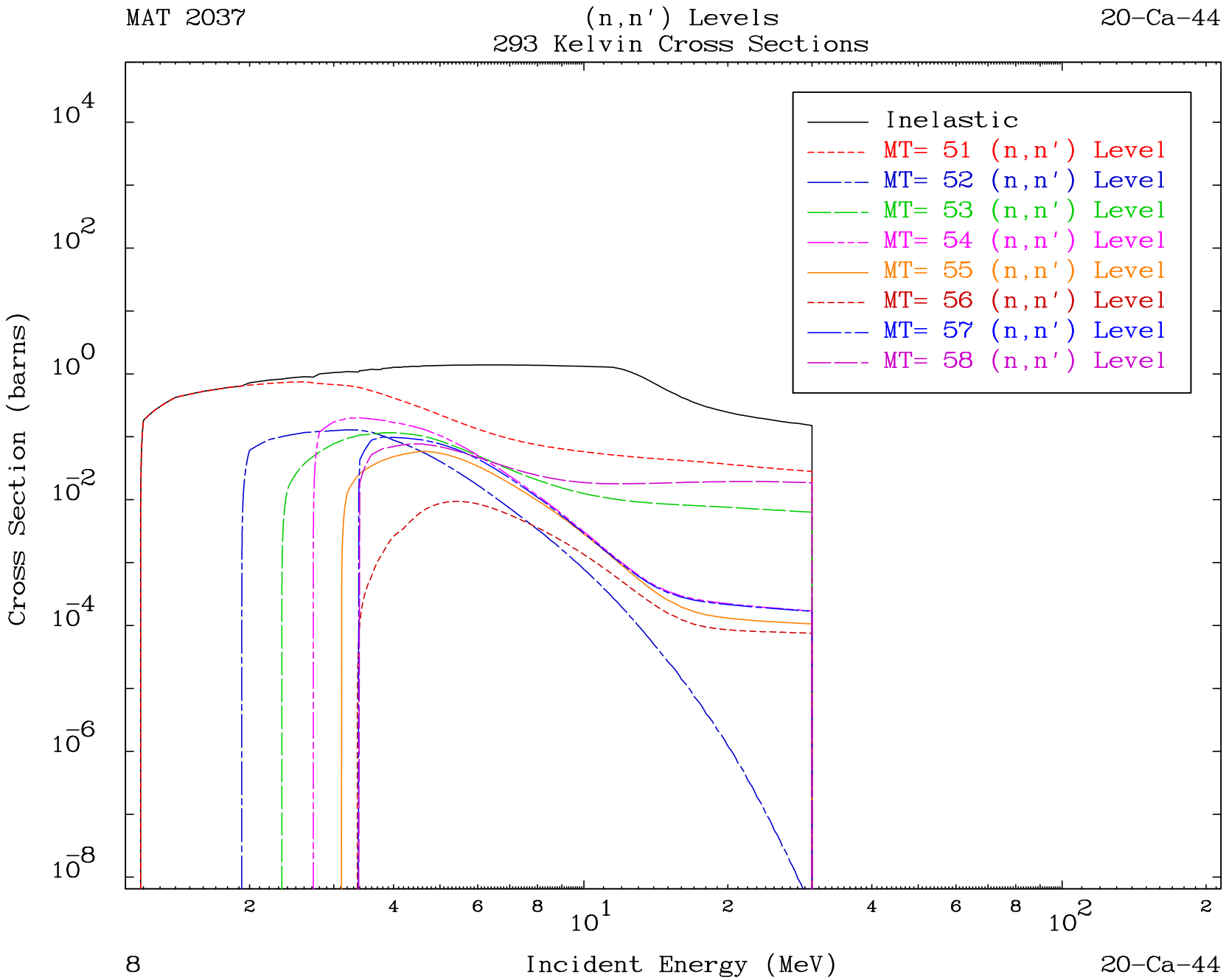

MAT 2037
Neutron Absorption
293 Kelvin Cross Sections
20-Ca-44
Cross Section (barns)
Incident Energy (MeV)
3
20-Ca-44
(n,2n) p
(n,2n) p
(n,n') p α
(n,γ)
(n,p)
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)

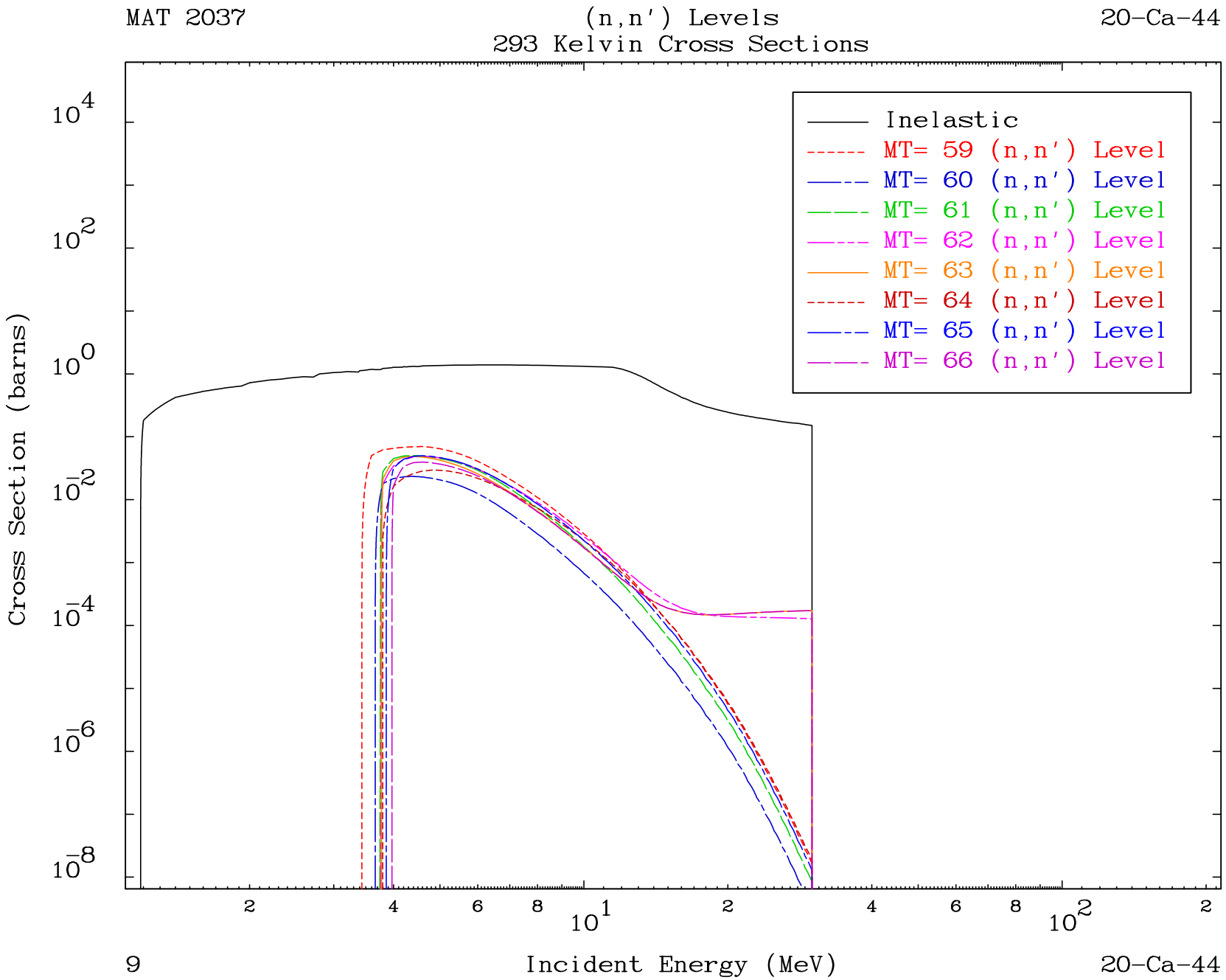

MAT 2037
Neutron Absorption
293 Kelvin Cross Sections
20-Ca-44
Cross Section (barns)
Incident Energy (MeV)
4
20-Ca-44
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production

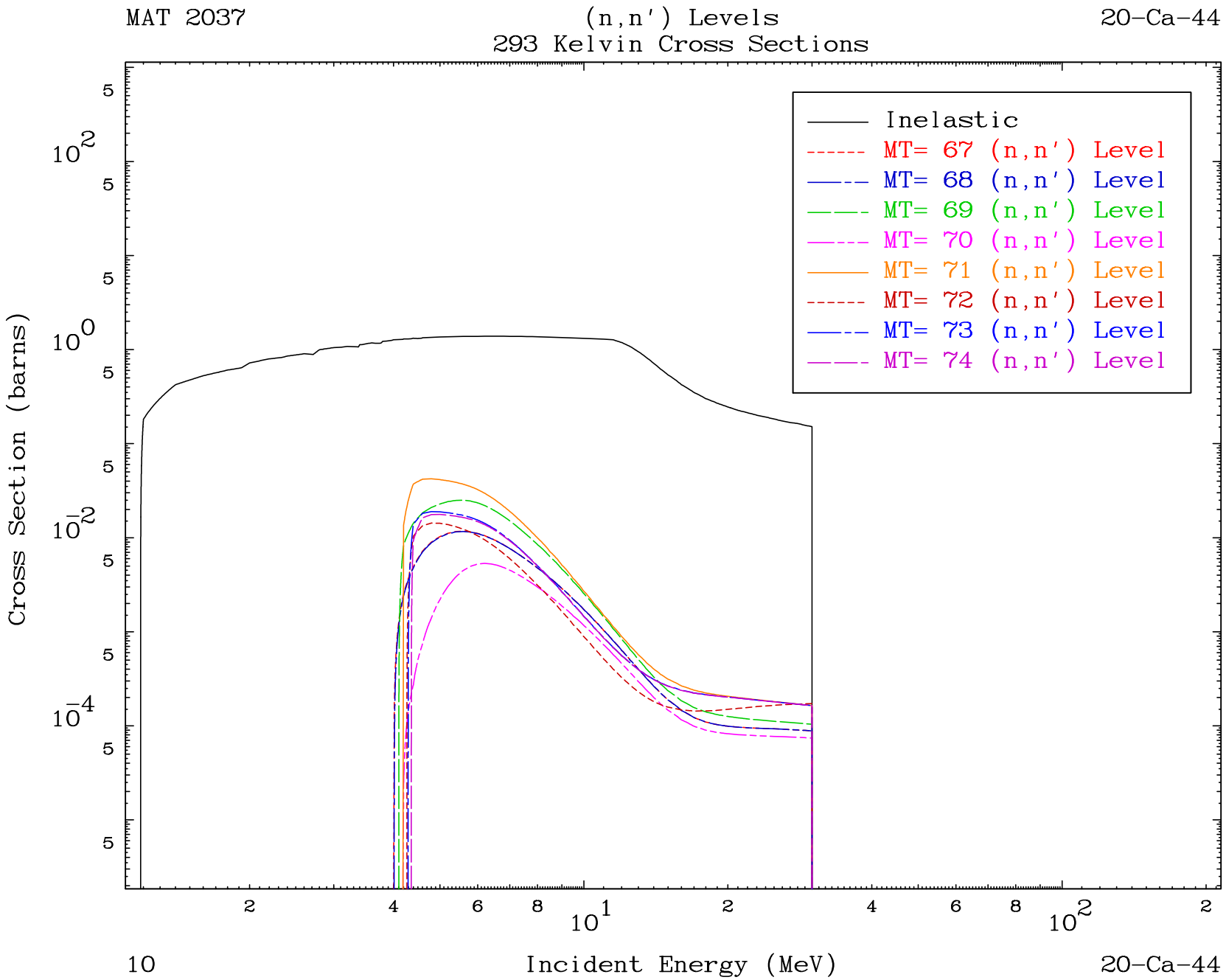

MAT 2037
Charged Particle
293 Kelvin Cross Sections
20-Ca-44
Cross Section (barns)
Incident Energy (MeV)
20-Ca-44
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
(n,p)
(n,d)

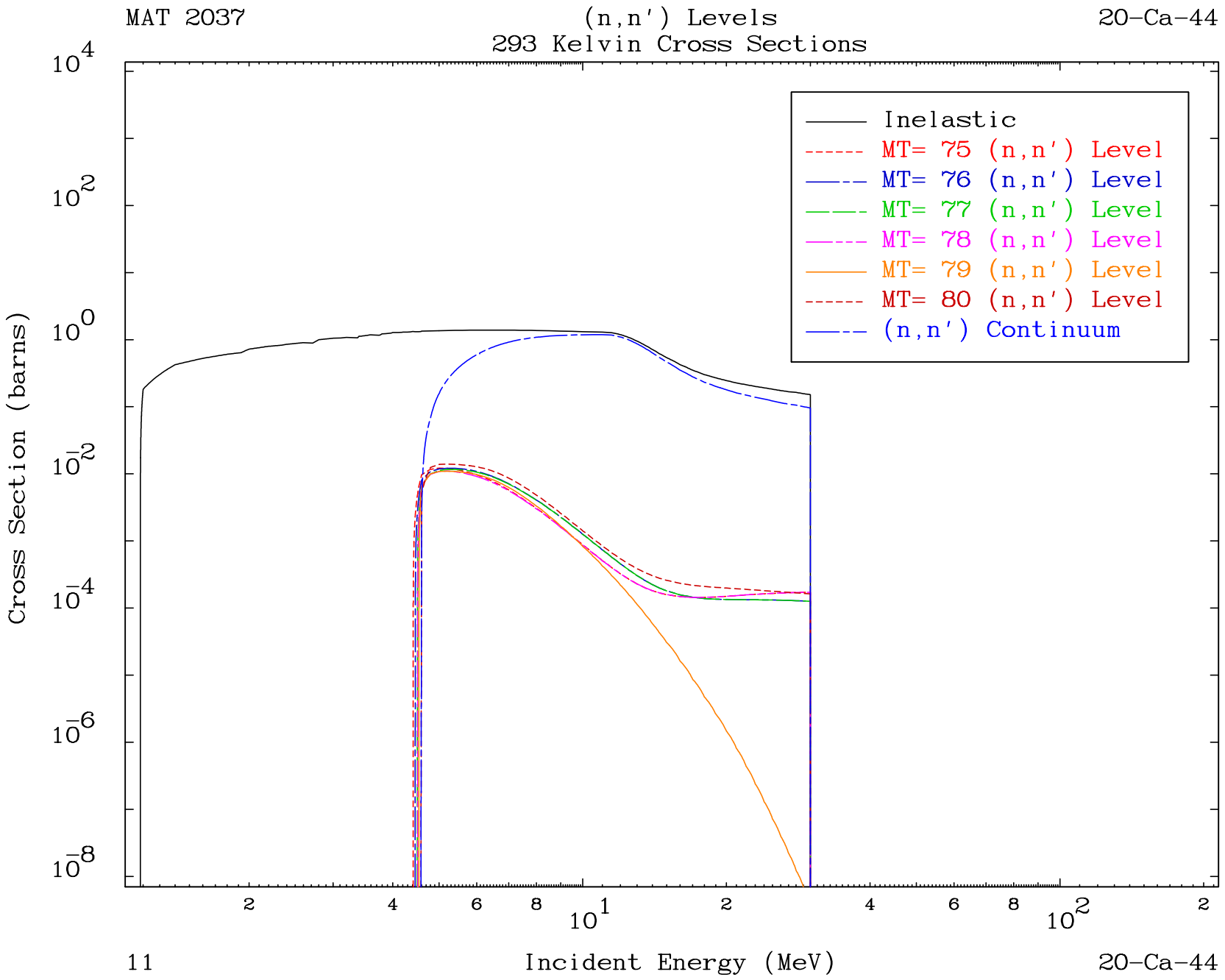

MAT 2037
Charged Particle
293 Kelvin Cross Sections
20-Ca-44
Cross Section (barns)
Incident Energy (MeV)
6
20-Ca-44
(n,n') α
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α

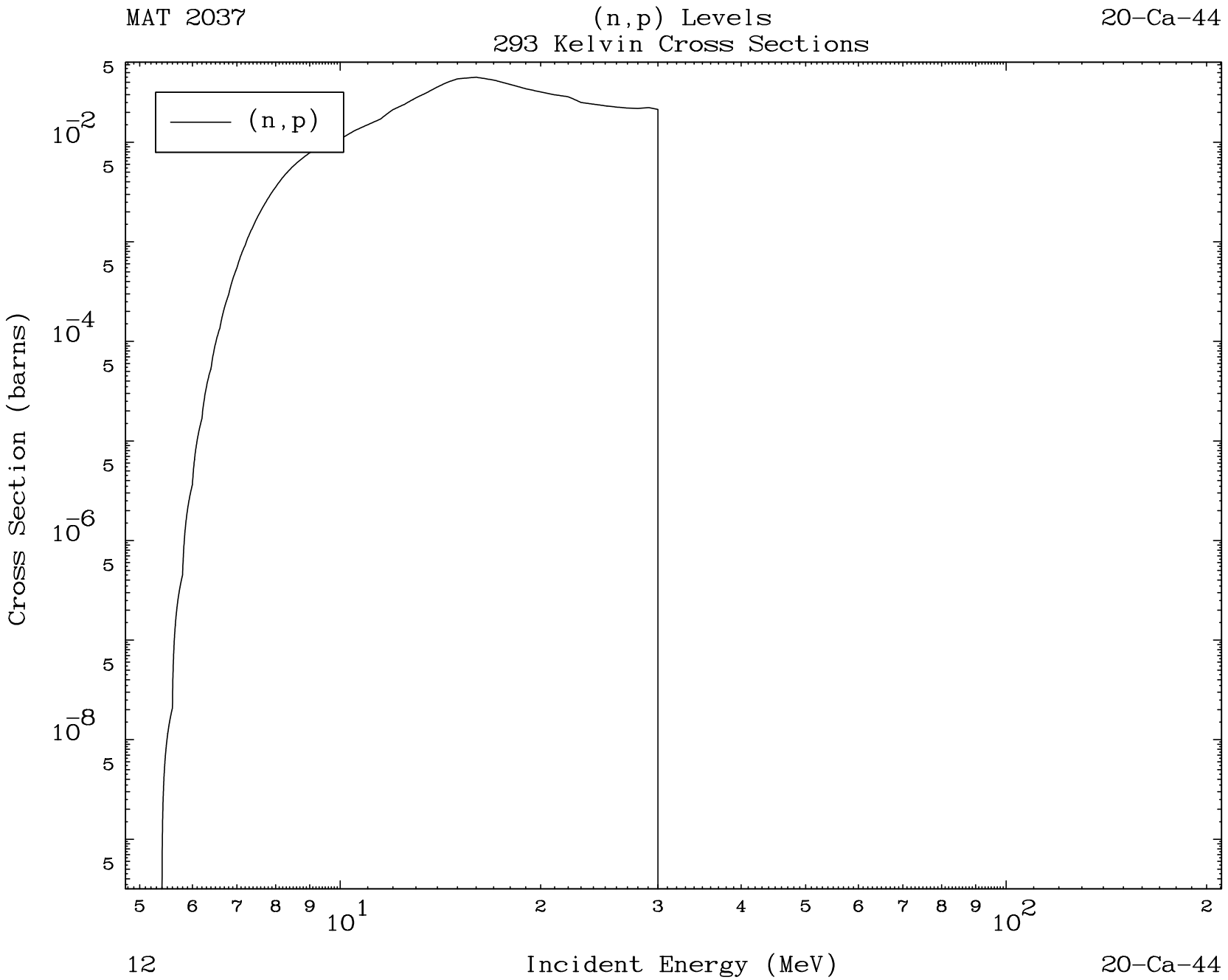

MAT 2037
Particle Production
293 Kelvin Cross Sections
20-Ca-44
Cross Section (barns)
10-2
10-4
10-6
10-8
5
3 4 5 6 7 8 9 10 1 2 3 4 5 6 7 8 9 10 2 2
Incident Energy (MeV)
7
20-Ca-44
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production

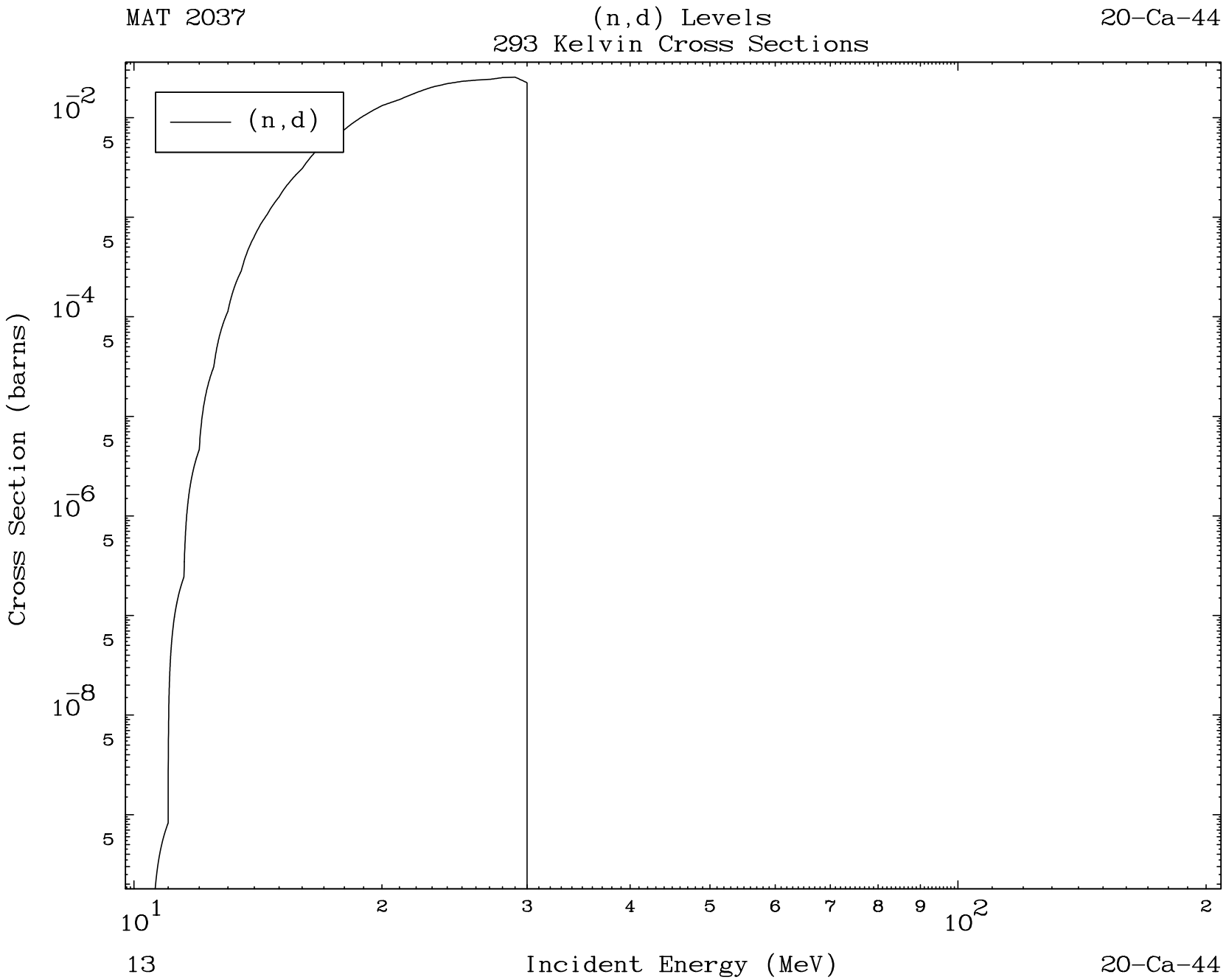

MAT 2037
(n,n') Levels
293 Kelvin Cross Sections
20-Ca-44
Inelastic
MT= 51 (n,n') Level
MT= 52 (n,n') Level
MT= 53 (n,n') Level
MT= 54 (n,n') Level
MT= 55 (n,n') Level
MT= 56 (n,n') Level
MT= 57 (n,n') Level
MT= 58 (n,n') Level
Cross Section (barns)
Incident Energy (MeV)
8
20-Ca-44

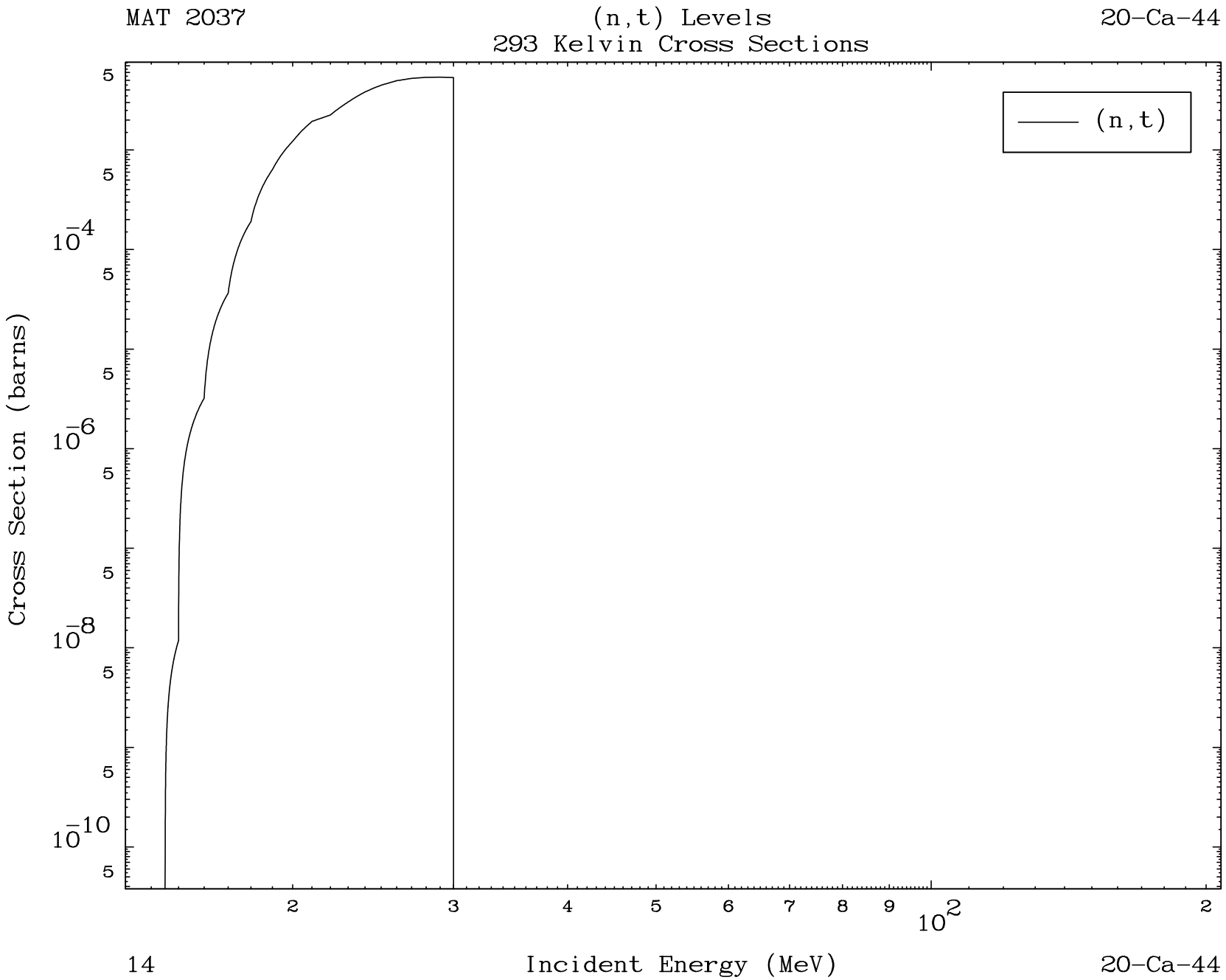

MAT 2037
(n,n') Levels
293 Kelvin Cross Sections
20-Ca-44
Inelastic
MT= 59 (n,n') Level
MT= 60 (n,n') Level
MT= 61 (n,n') Level
MT= 62 (n,n') Level
MT= 63 (n,n') Level
MT= 64 (n,n') Level
MT= 65 (n,n') Level
MT= 66 (n,n') Level
Cross Section (barns)
Incident Energy (MeV)
9
20-Ca-44

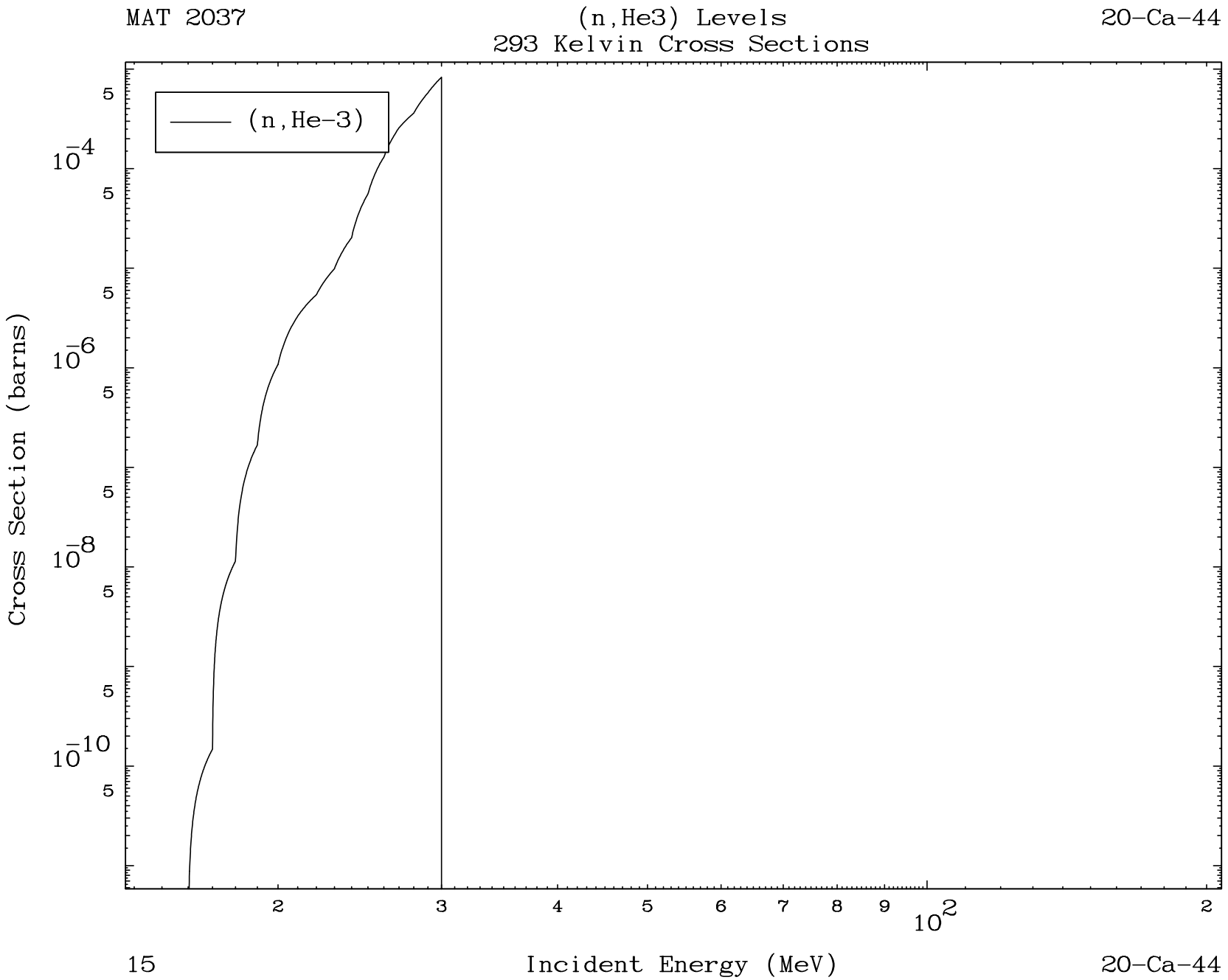

MAT 2037
(n,n') Levels
293 Kelvin Cross Sections
20-Ca-44
Inelastic
MT= 67 (n,n') Level
MT= 68 (n,n') Level
MT= 69 (n,n') Level
MT= 70 (n,n') Level
MT= 71 (n,n') Level
MT= 72 (n,n') Level
MT= 73 (n,n') Level
MT= 74 (n,n') Level
Cross Section (barns)
Incident Energy (MeV)
10
20-Ca-44

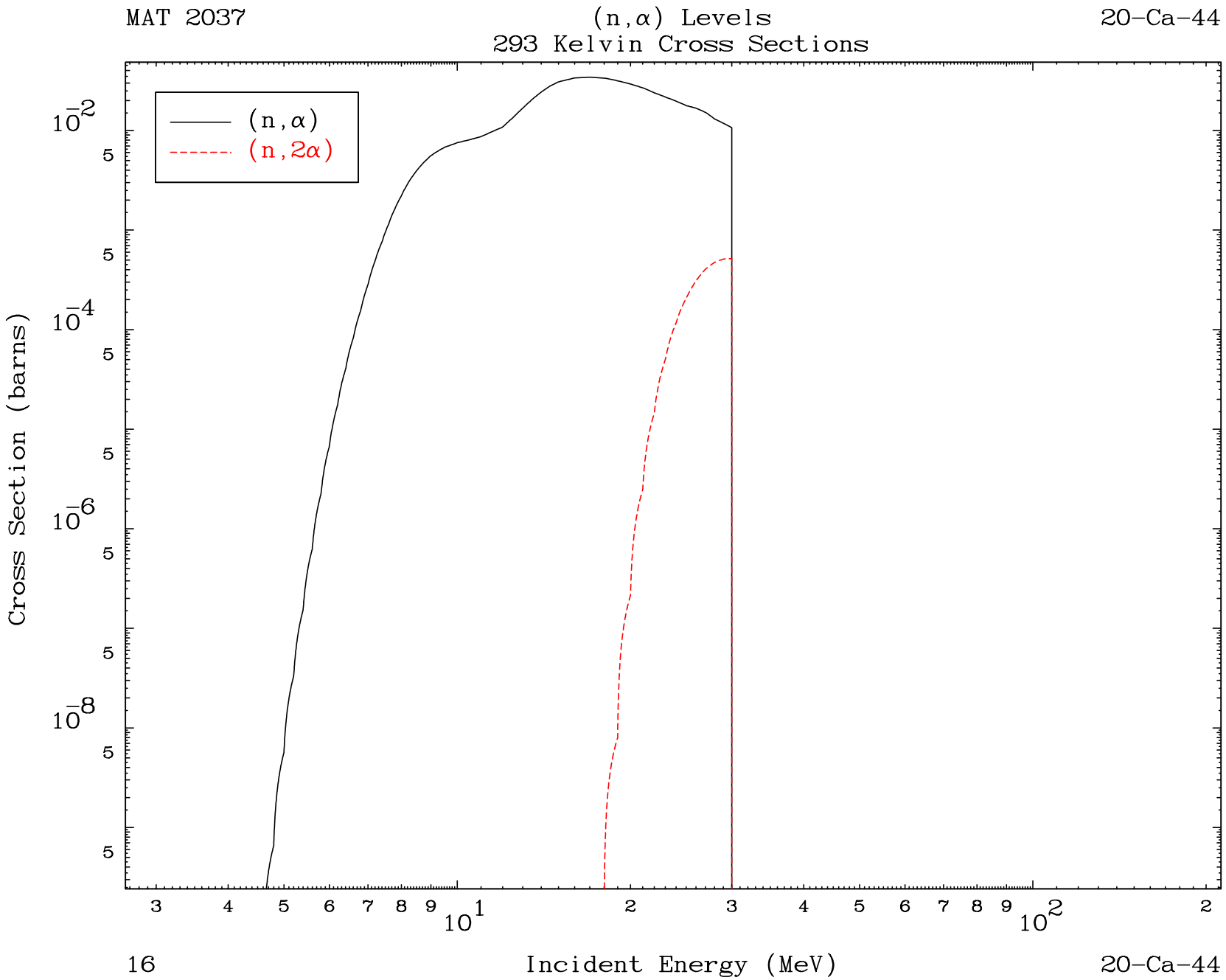

MAT 2037
(n,n') Levels
293 Kelvin Cross Sections
20-Ca-44
Inelastic
MT= 75 (n,n') Level
MT= 76 (n,n') Level
MT= 77 (n,n') Level
MT= 78 (n,n') Level
MT= 79 (n,n') Level
MT= 80 (n,n') Level
(n,n') Continuum
Cross Section (barns)
Incident Energy (MeV)
11
20-Ca-44

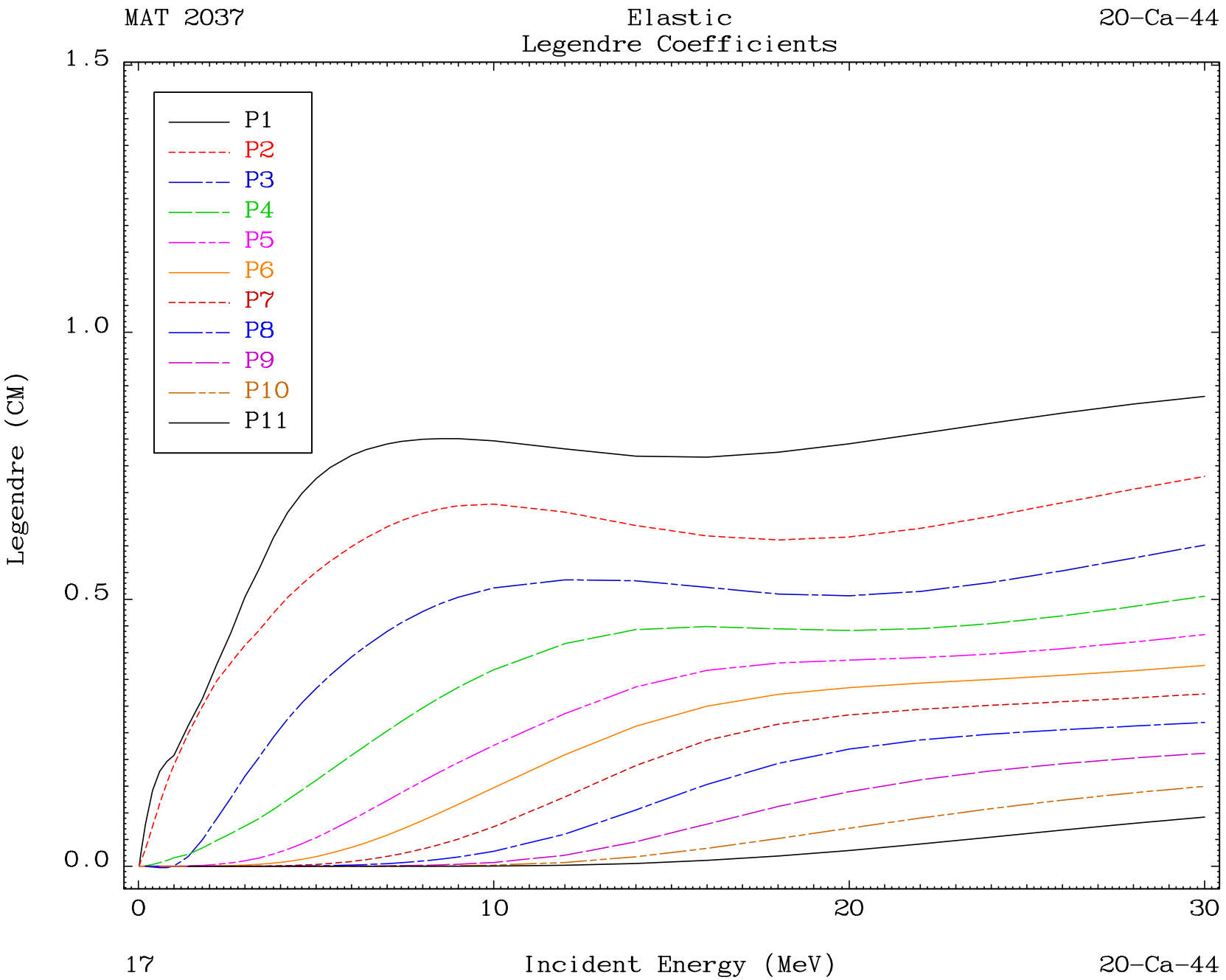

MAT 2037
(n,p) Levels
20-Ca-44
293 Kelvin Cross Sections
(n,p)
Cross Section (barns)
Incident Energy (MeV)
12
20-Ca-44

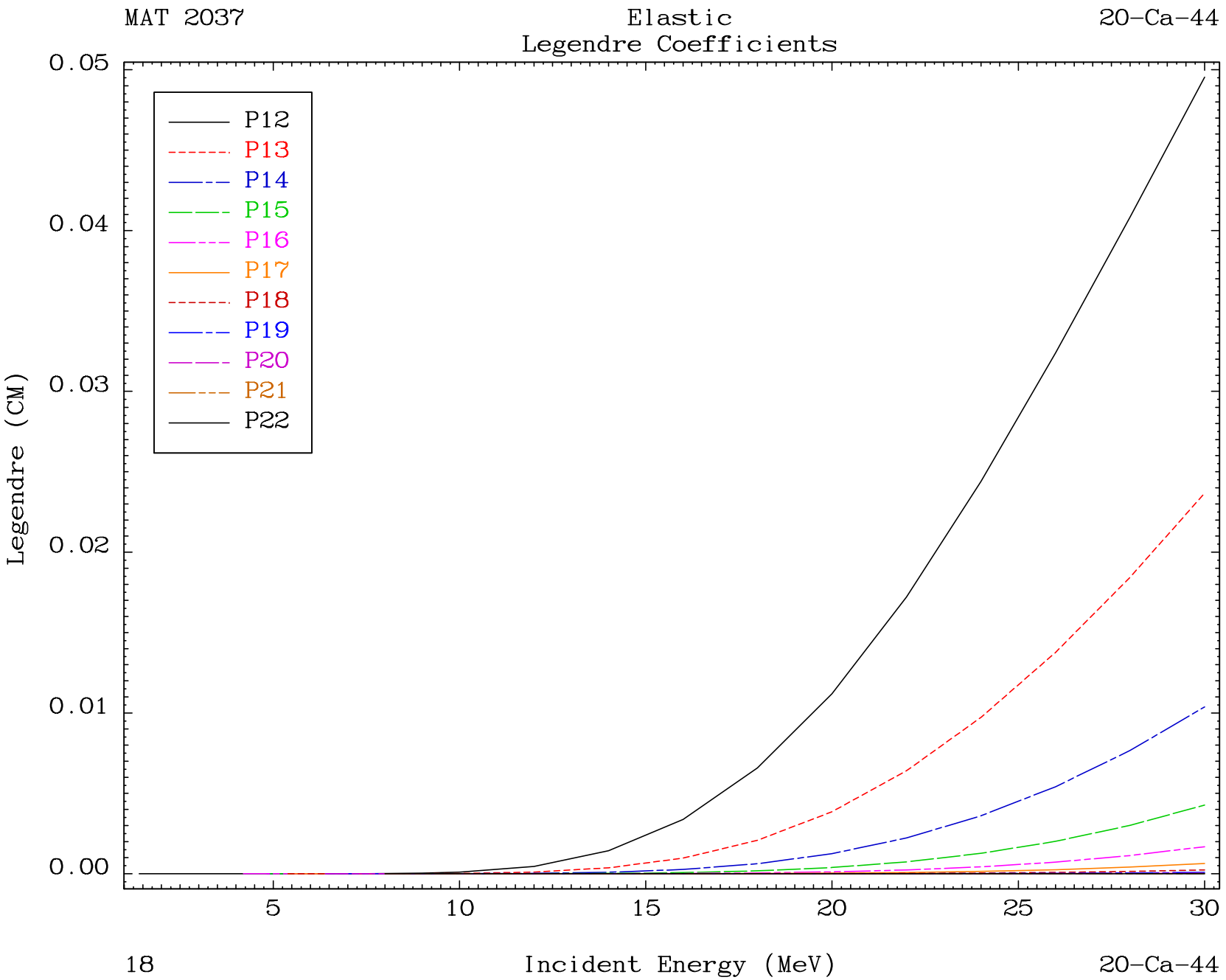

MAT 2037
(n,d) Levels
293 Kelvin Cross Sections
20-Ca-44
(n,d)
Cross Section (barns)
Incident Energy (MeV)
13
20-Ca-44

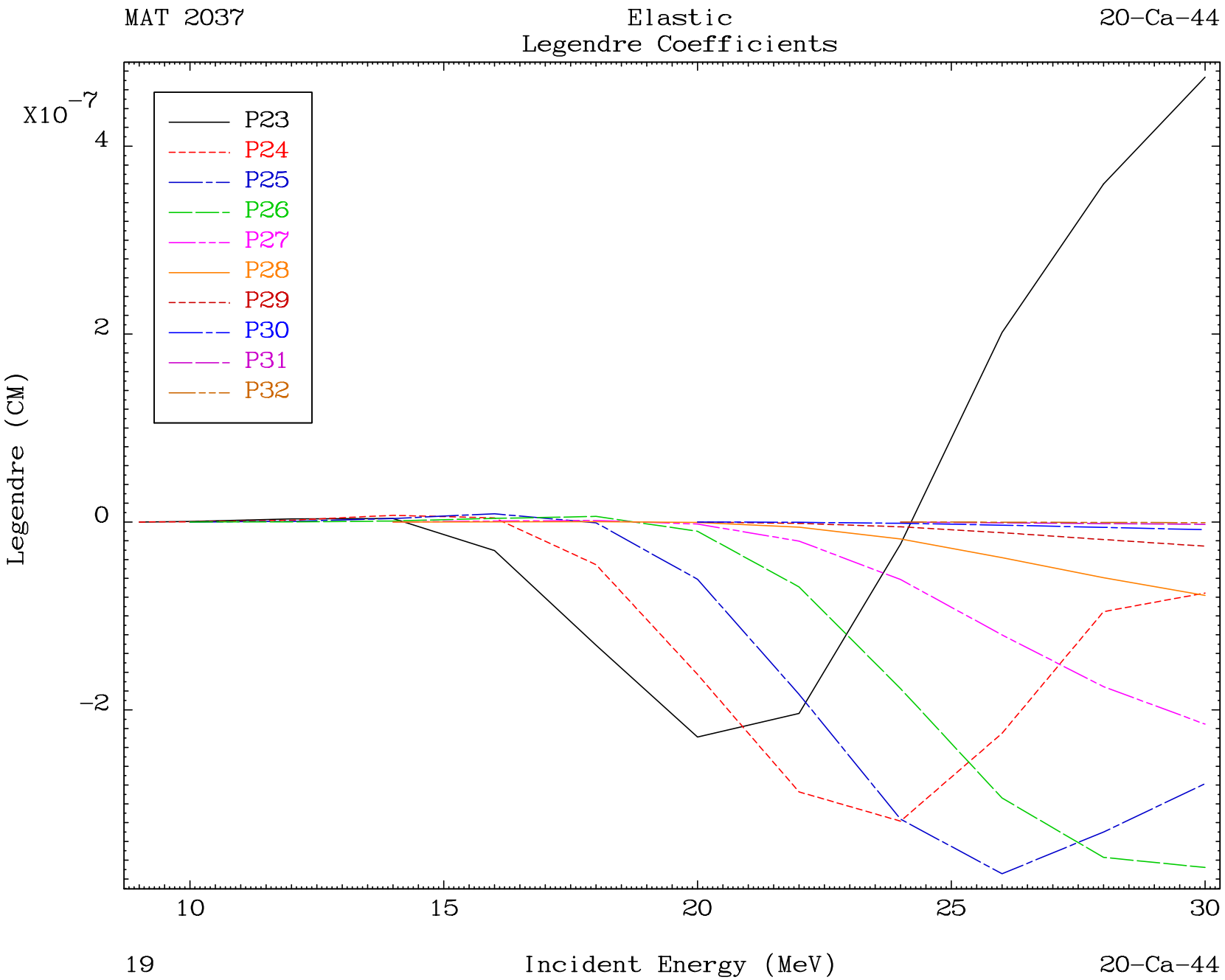

MAT 2037
(n,t) Levels
20-Ca-44
293 Kelvin Cross Sections
(n,t)
Cross Section (barns)
Incident Energy (MeV)
14
20-Ca-44

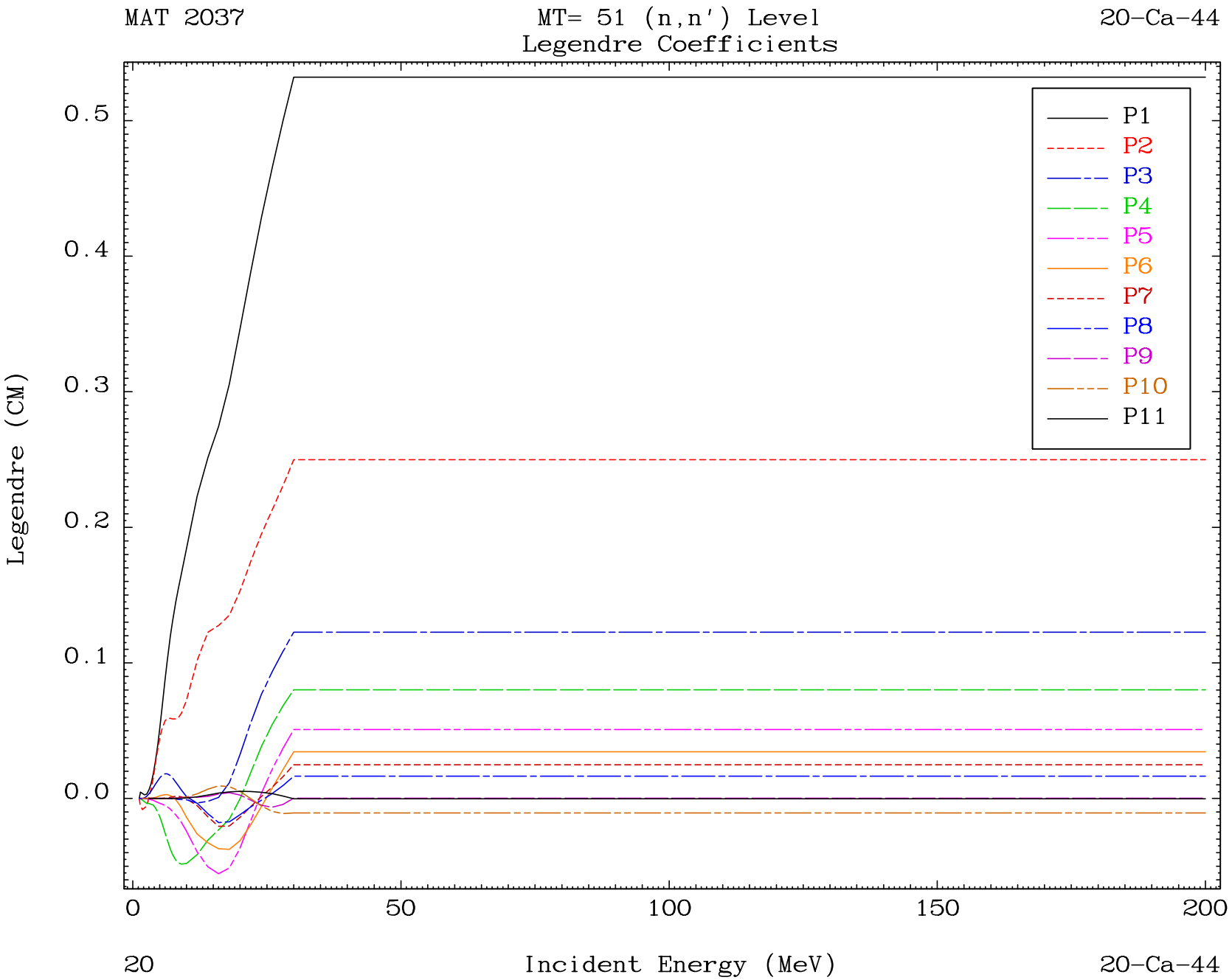

MAT 2037
(n,He3) Levels
20-Ca-44
293 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
10-4
10-6
10-8
10-10
5
2
3
4
5
6
7
8
9
10 2
2
15
Incident Energy (MeV)
20-Ca-44

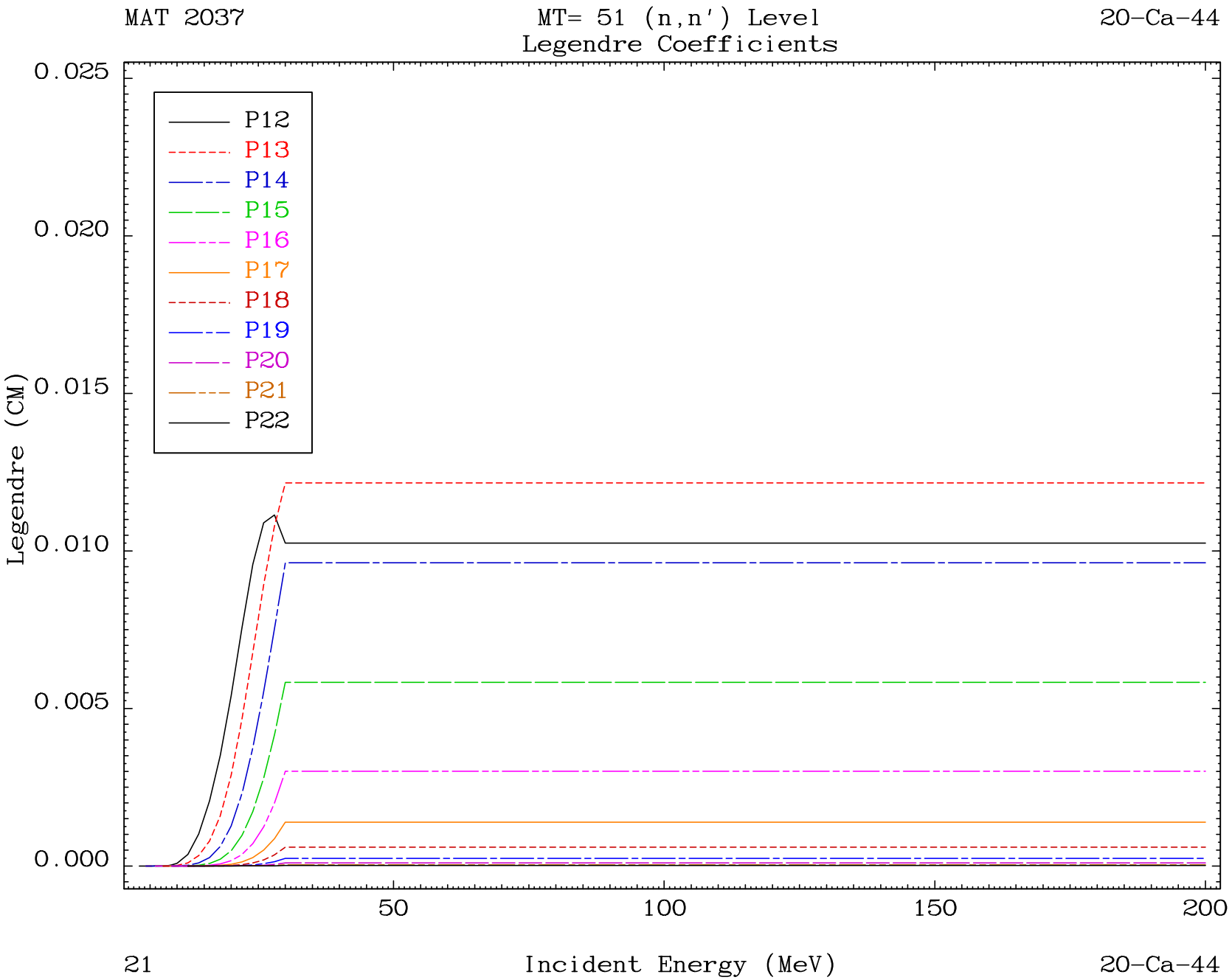

MAT 2037
(n,α) Levels
20-Ca-44
293 Kelvin Cross Sections
(n,α)
(n,2α)
Cross Section (barns)
Incident Energy (MeV)
16
20-Ca-44

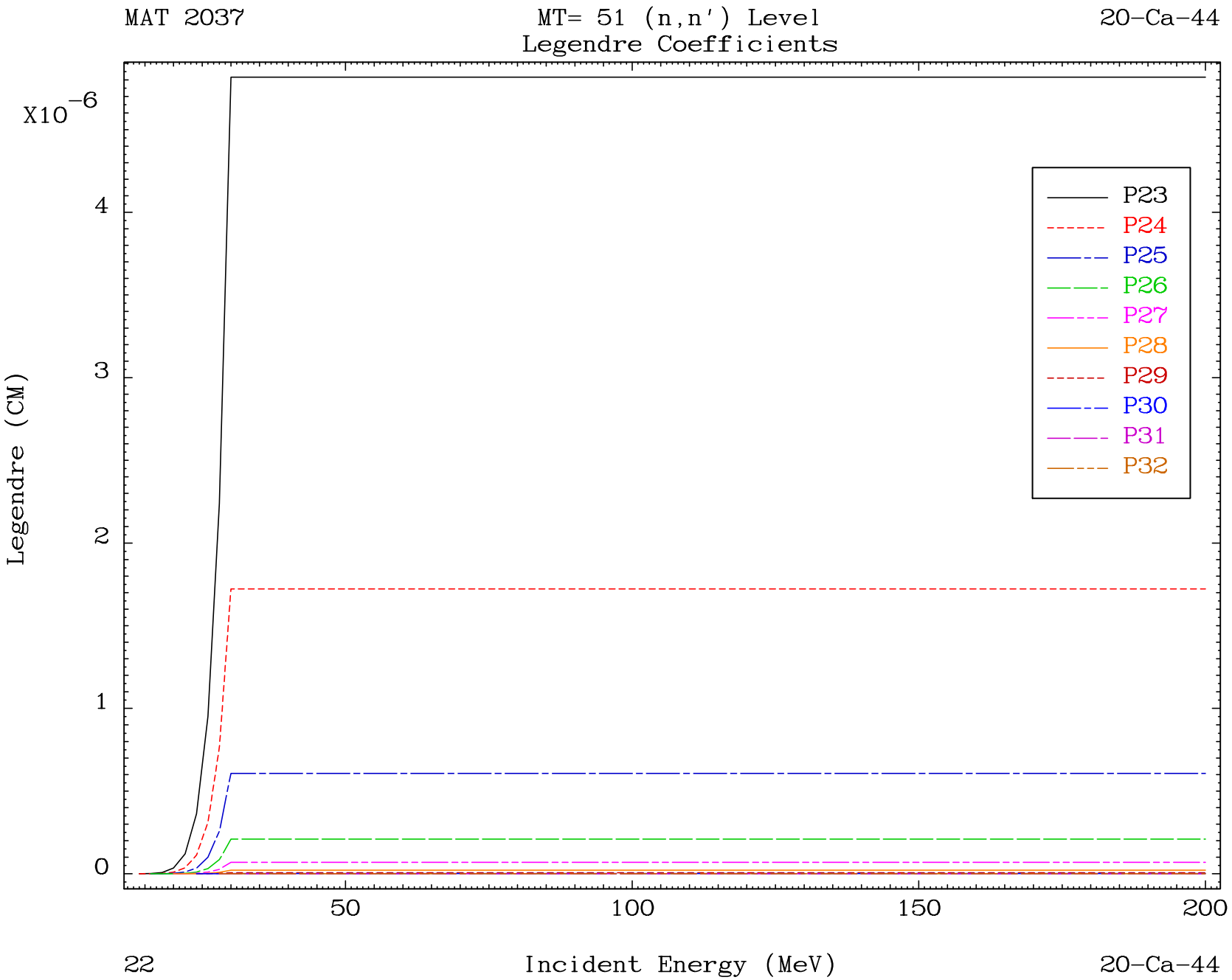

MAT 2037
Elastic
Legendre Coefficients
20-Ca-44
1.5
1.0
0.5
0.0
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11
0
10
20
30
17
Incident Energy (MeV)
20-Ca-44

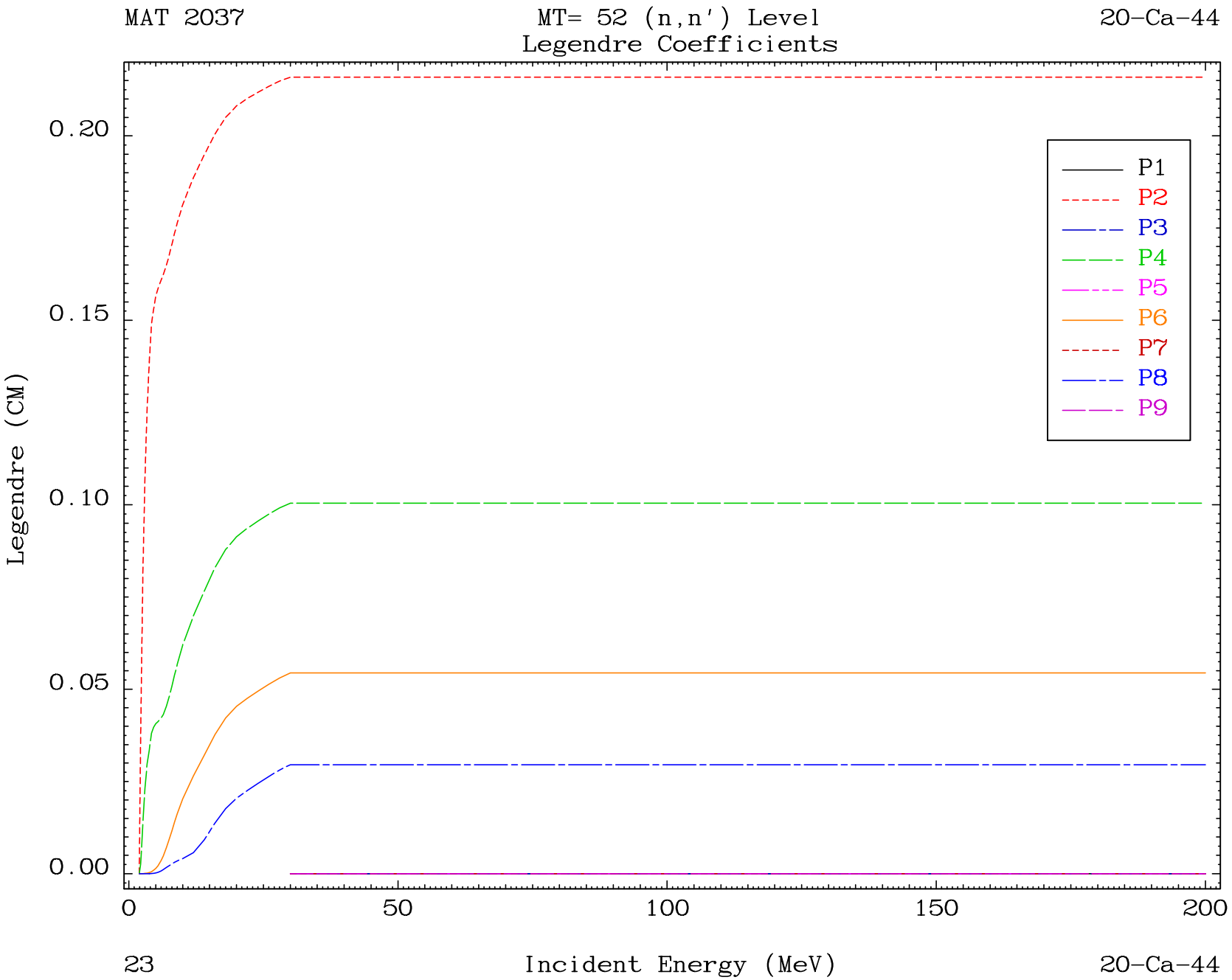

MAT 2037
Elastic
Legendre Coefficients
20-Ca-44
P12
P13
P14
P15
P16
P17
P18
P19
P20
P21
P22
Legendre (CM)
0.05
0.04
0.03
0.02
0.01
0.00
5
10
15
20
25
30
18
Incident Energy (MeV)
20-Ca-44

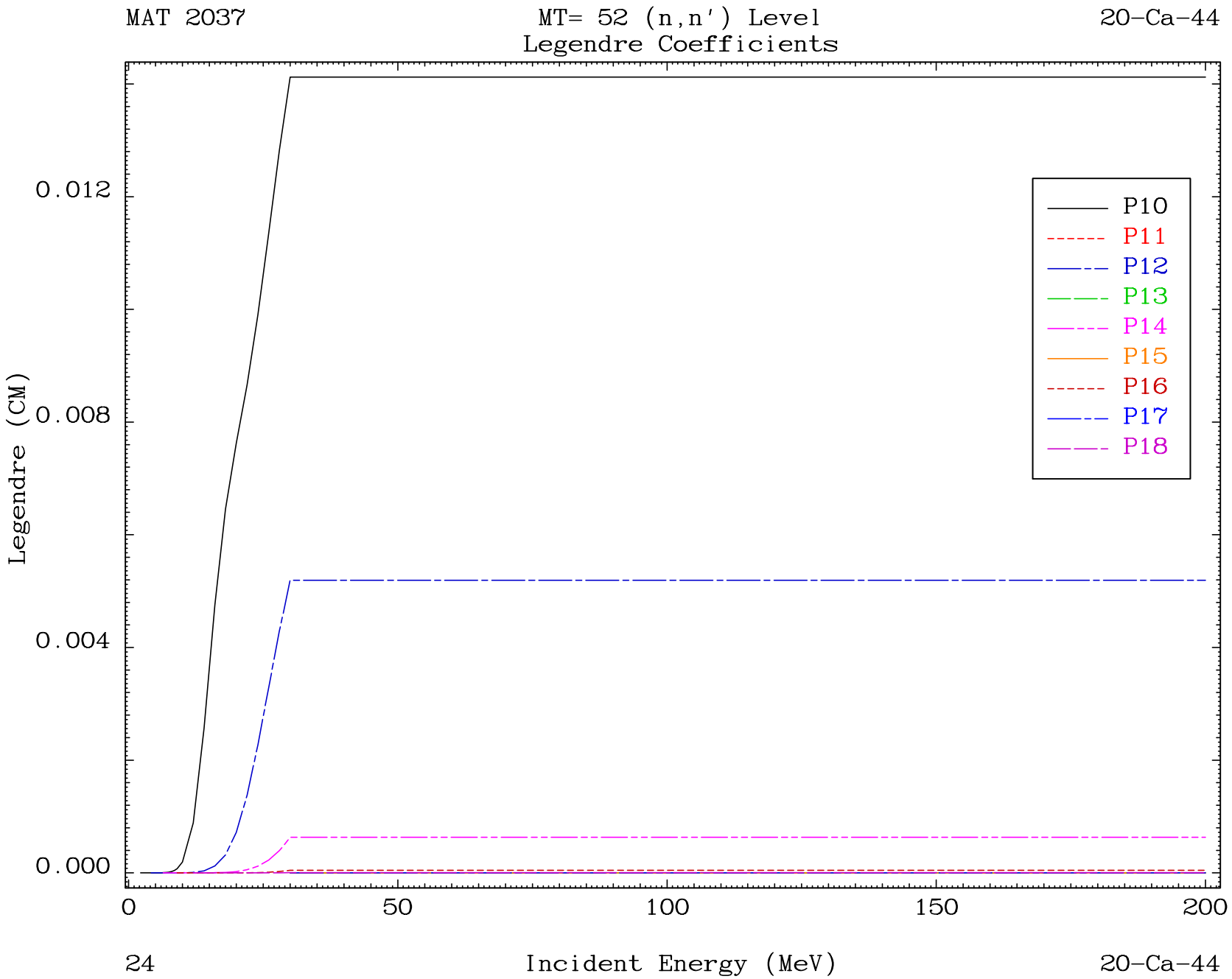

MAT 2037
Elastic
Legendre Coefficients
20-Ca-44
X10^-7
4
2
0
-2
Legendre (CM)
P23
P24
P25
P26
P27
P28
P29
P30
P31
P32
10
15
20
25
30
19
Incident Energy (MeV)
20-Ca-44

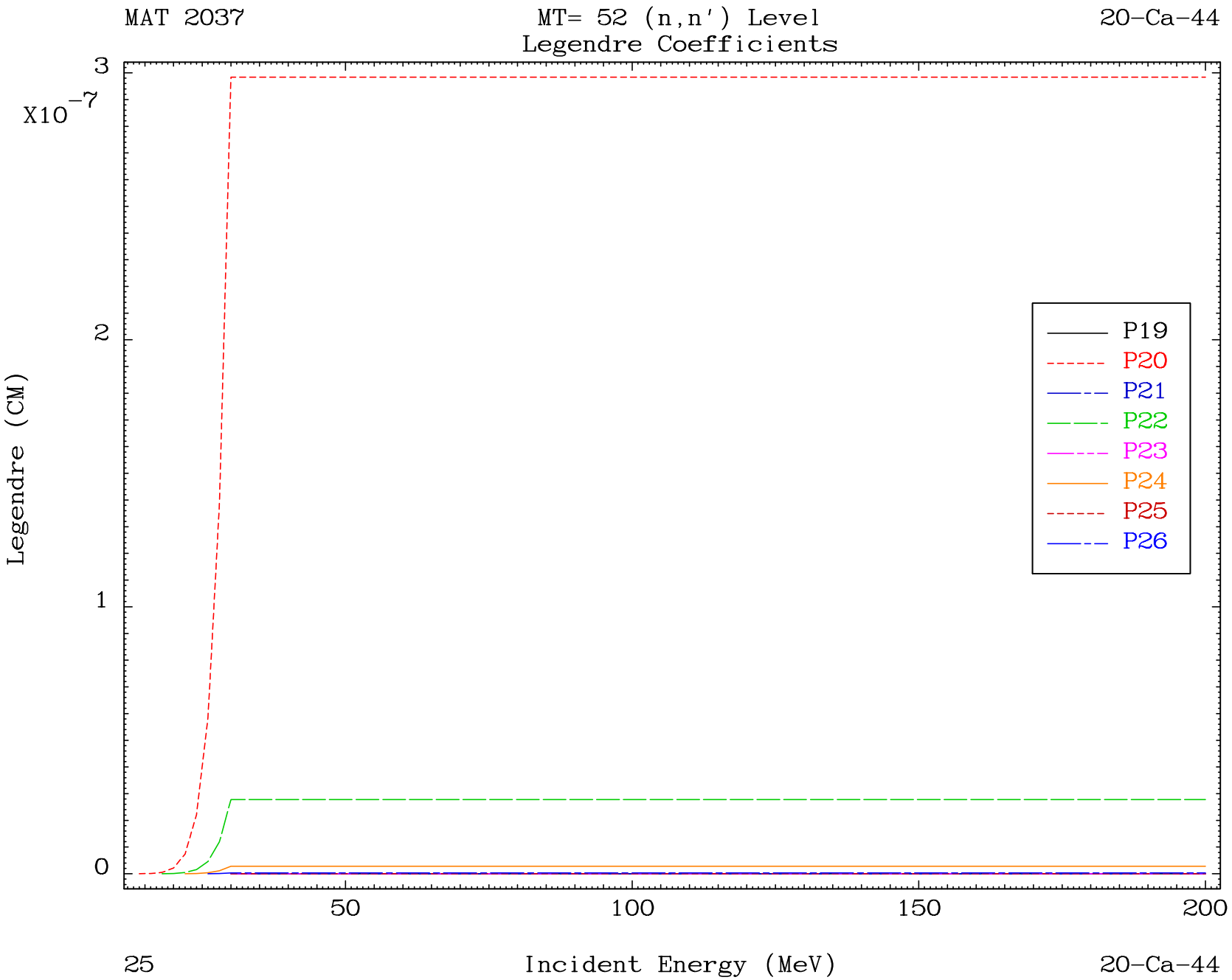

MAT 2037
MT= 51 (n,n') Level
Legendre Coefficients
20-Ca-44
Legendre (CM)
0.5
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
20
Incident Energy (MeV)
20-Ca-44
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11

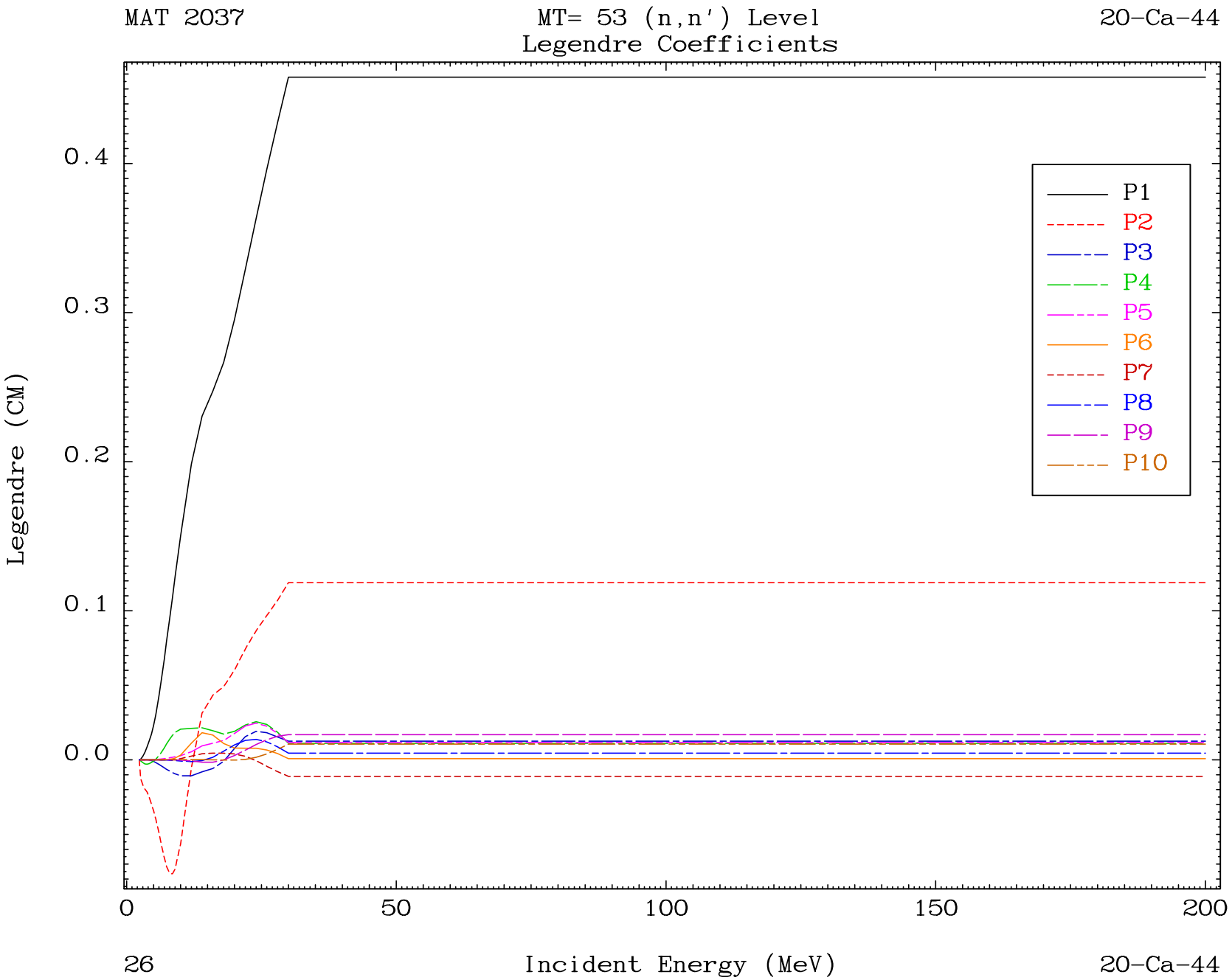

MAT 2037
MT= 51 (n,n') Level
Legendre Coefficients
20-Ca-44
0.025
0.020
0.015
0.010
0.005
0.000
Legendre (CM)
P12
P13
P14
P15
P16
P17
P18
P19
P20
P21
P22
50
100
150
200
21
Incident Energy (MeV)
20-Ca-44

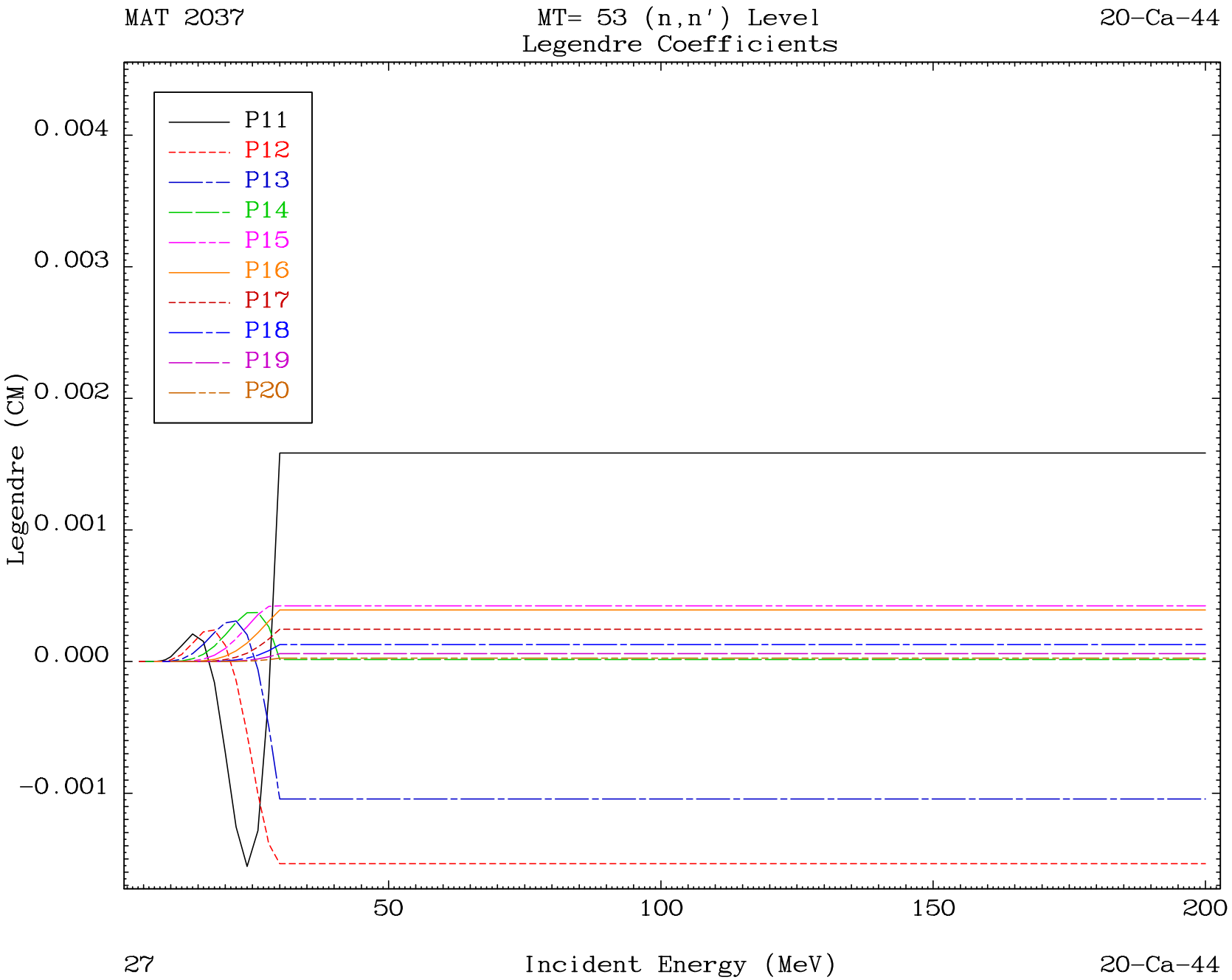

MAT 2037
MT= 51 (n,n') Level
Legendre Coefficients
20-Ca-44
X10^-6
4
3
2
1
0
Legendre (CM)
50
100
150
200
P23
P24
P25
P26
P27
P28
P29
P30
P31
P32
22
Incident Energy (MeV)
20-Ca-44

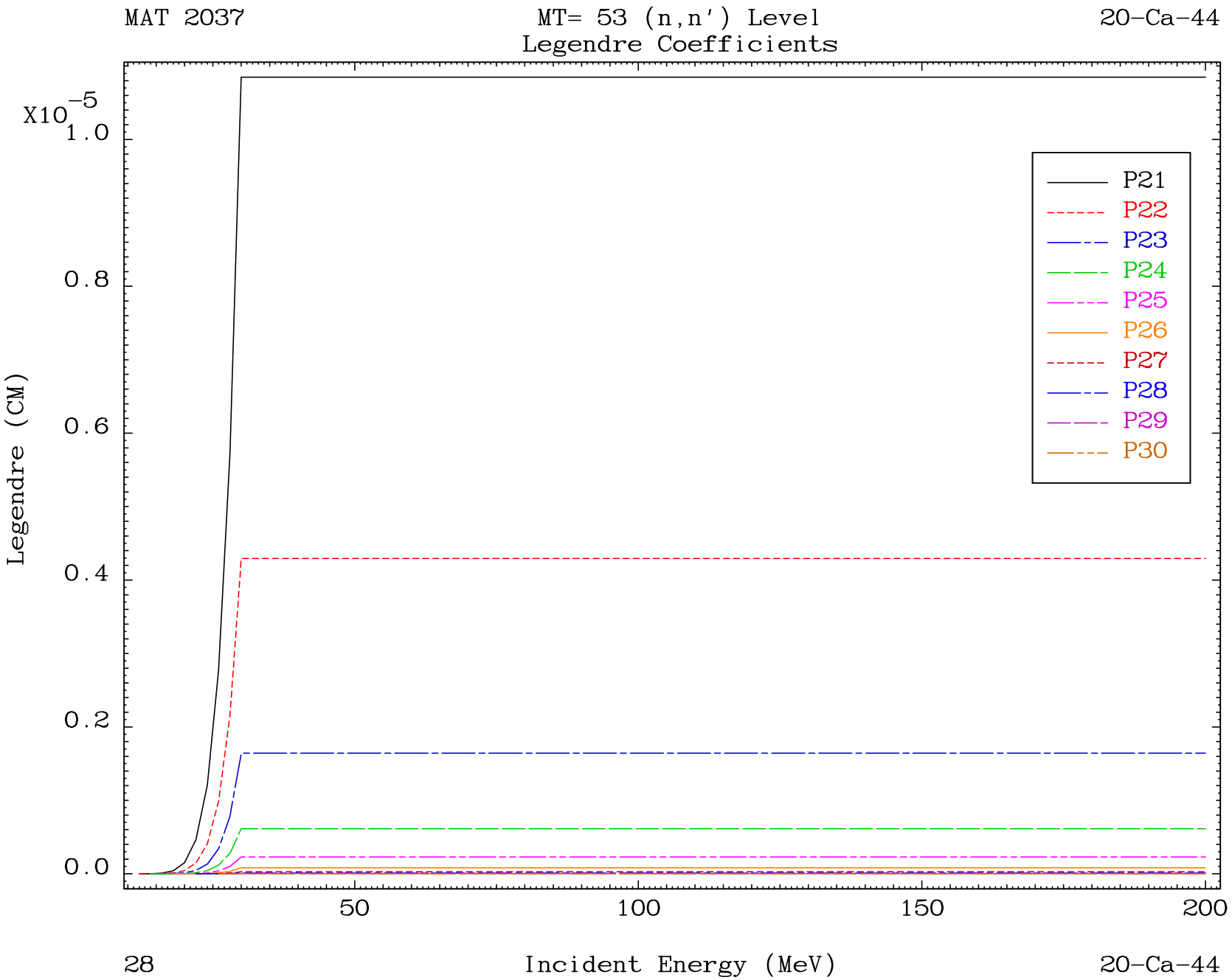

MAT 2037
MT= 52 (n,n') Level
Legendre Coefficients
20-Ca-44
0.20
0.15
0.10
0.05
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
23
Incident Energy (MeV)
20-Ca-44

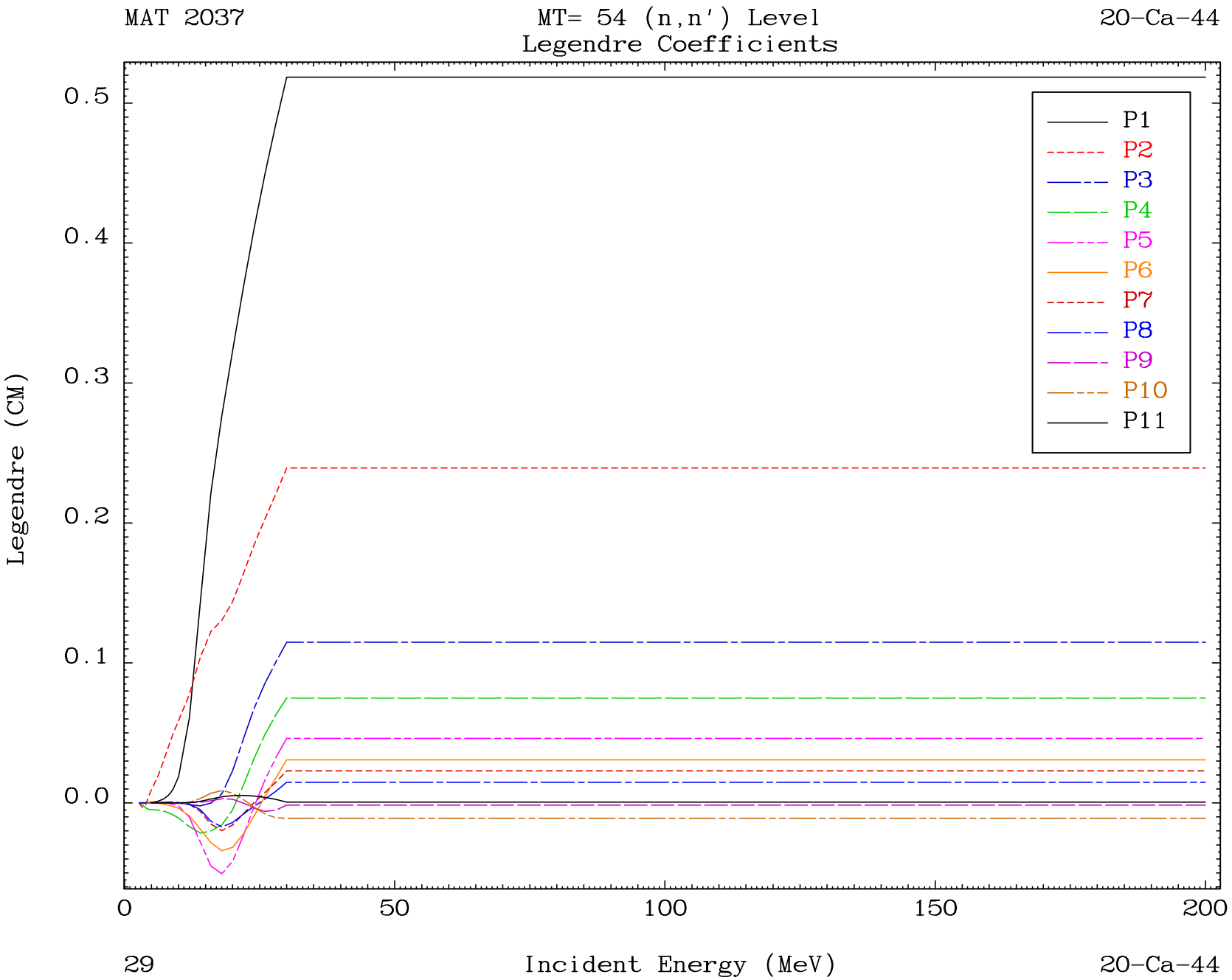

MAT 2037
MT= 52 (n,n') Level
Legendre Coefficients
20-Ca-44
0.012
0.008
0.004
0.000
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
24
Incident Energy (MeV)
20-Ca-44

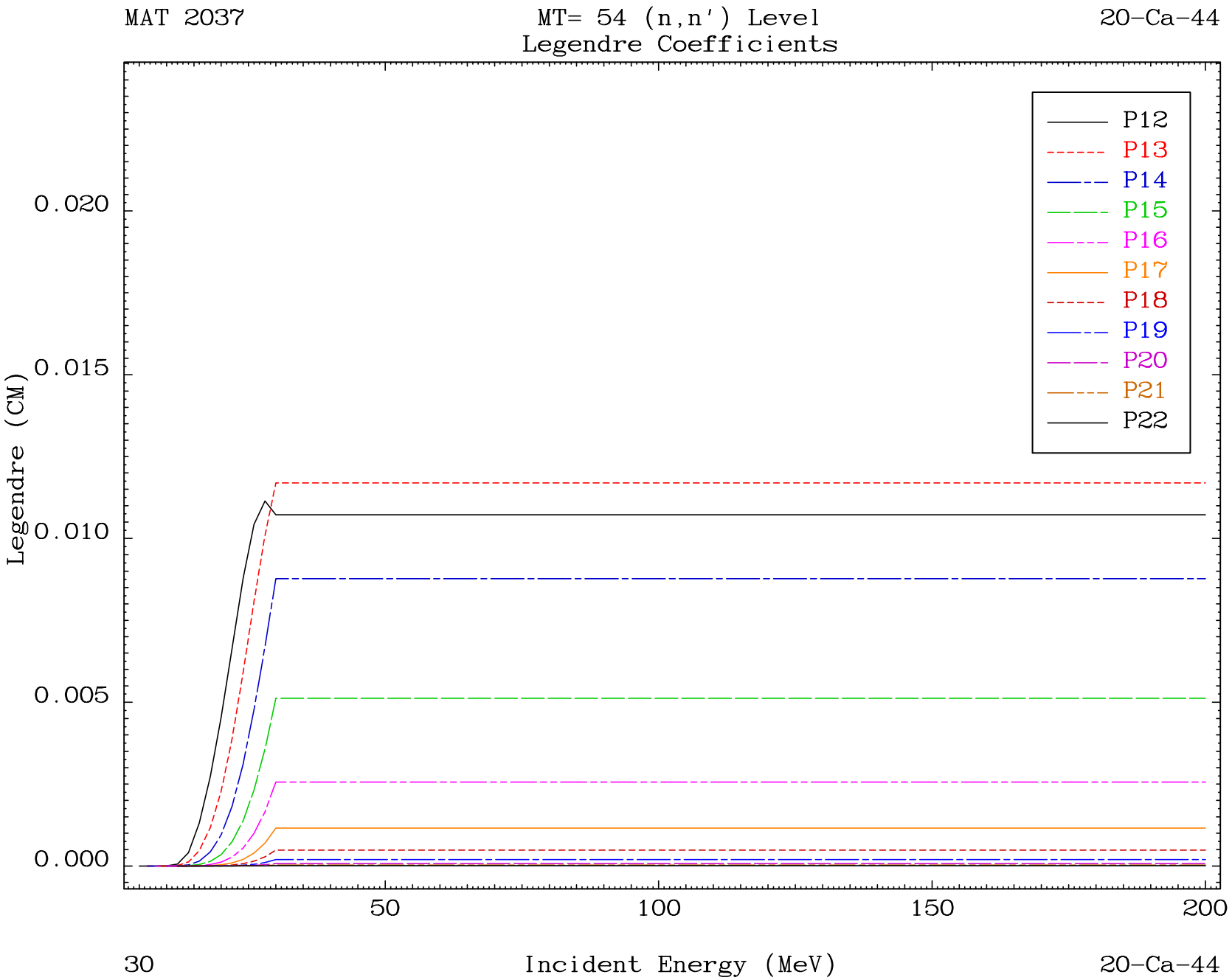

MAT 2037
MT= 52 (n,n') Level
Legendre Coefficients
20-Ca-44
X10-7
3
2
1
0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
50
100
150
200
25
Incident Energy (MeV)
20-Ca-44

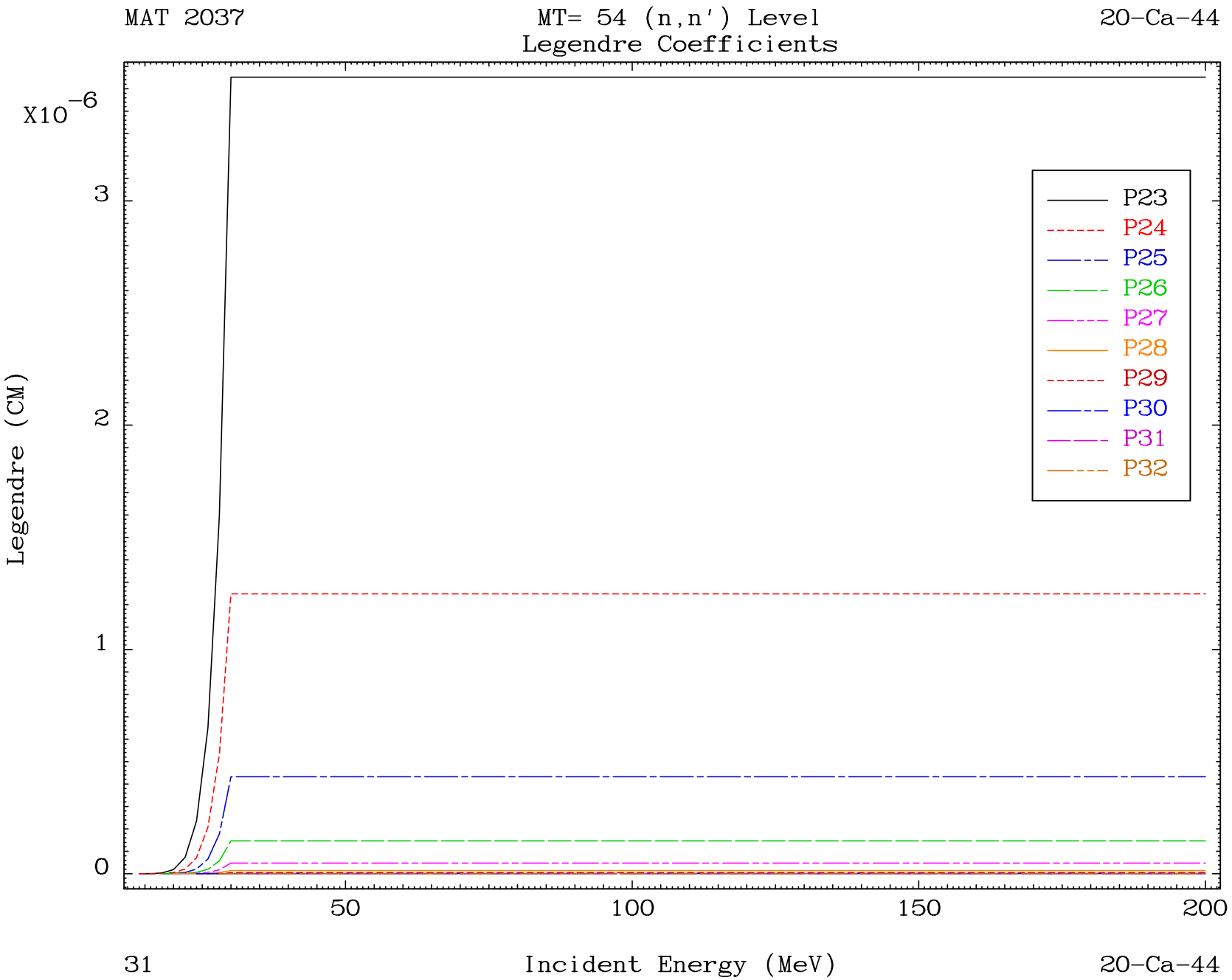

MAT 2037
MT= 53 (n,n') Level
Legendre Coefficients
20-Ca-44
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
Incident Energy (MeV)
26
20-Ca-44
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10

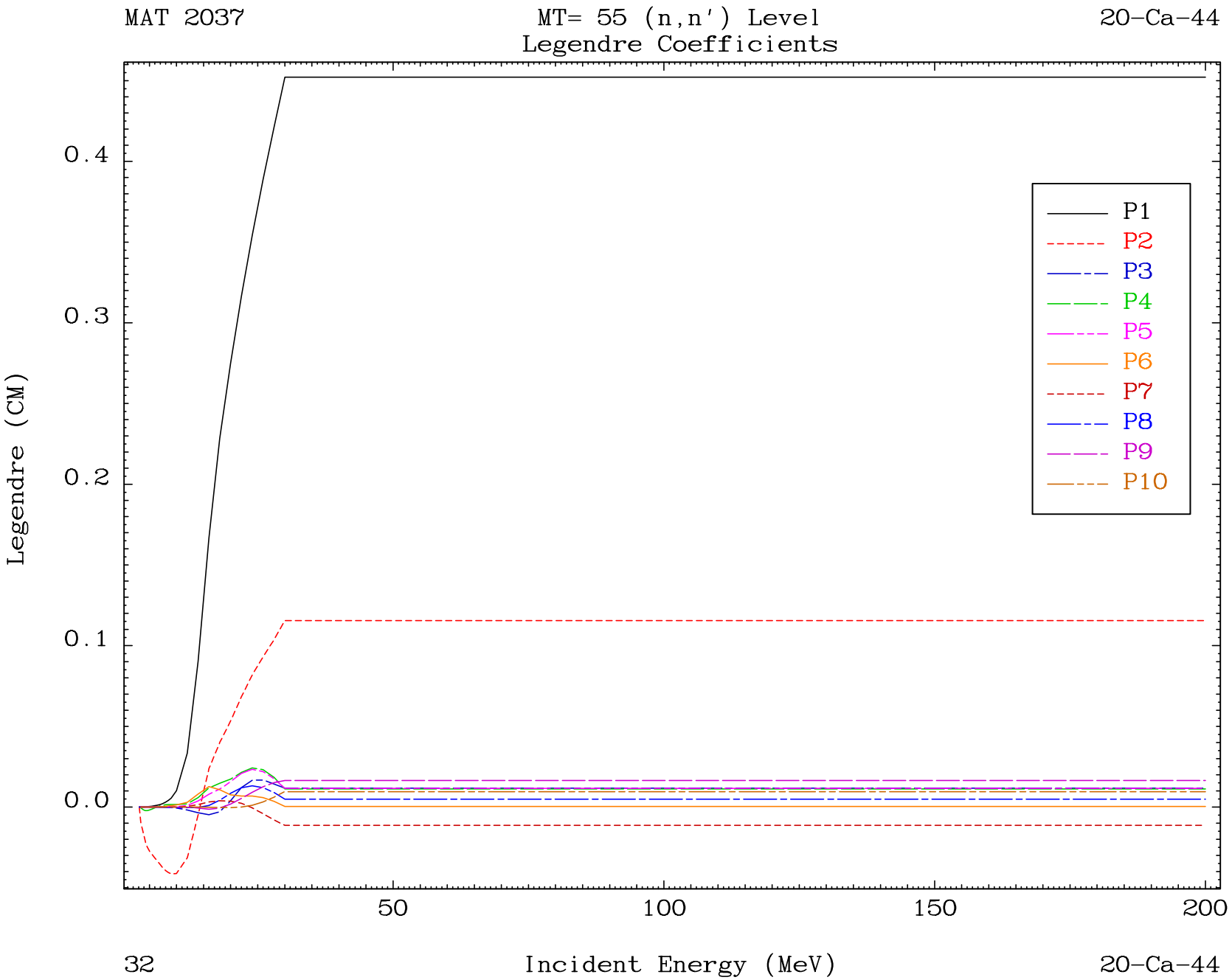

MAT 2037
MT= 53 (n,n') Level
Legendre Coefficients
20-Ca-44
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.004
0.003
0.002
0.001
0.000
-0.001
Legendre (CM)
50
100
150
200
27
Incident Energy (MeV)
20-Ca-44

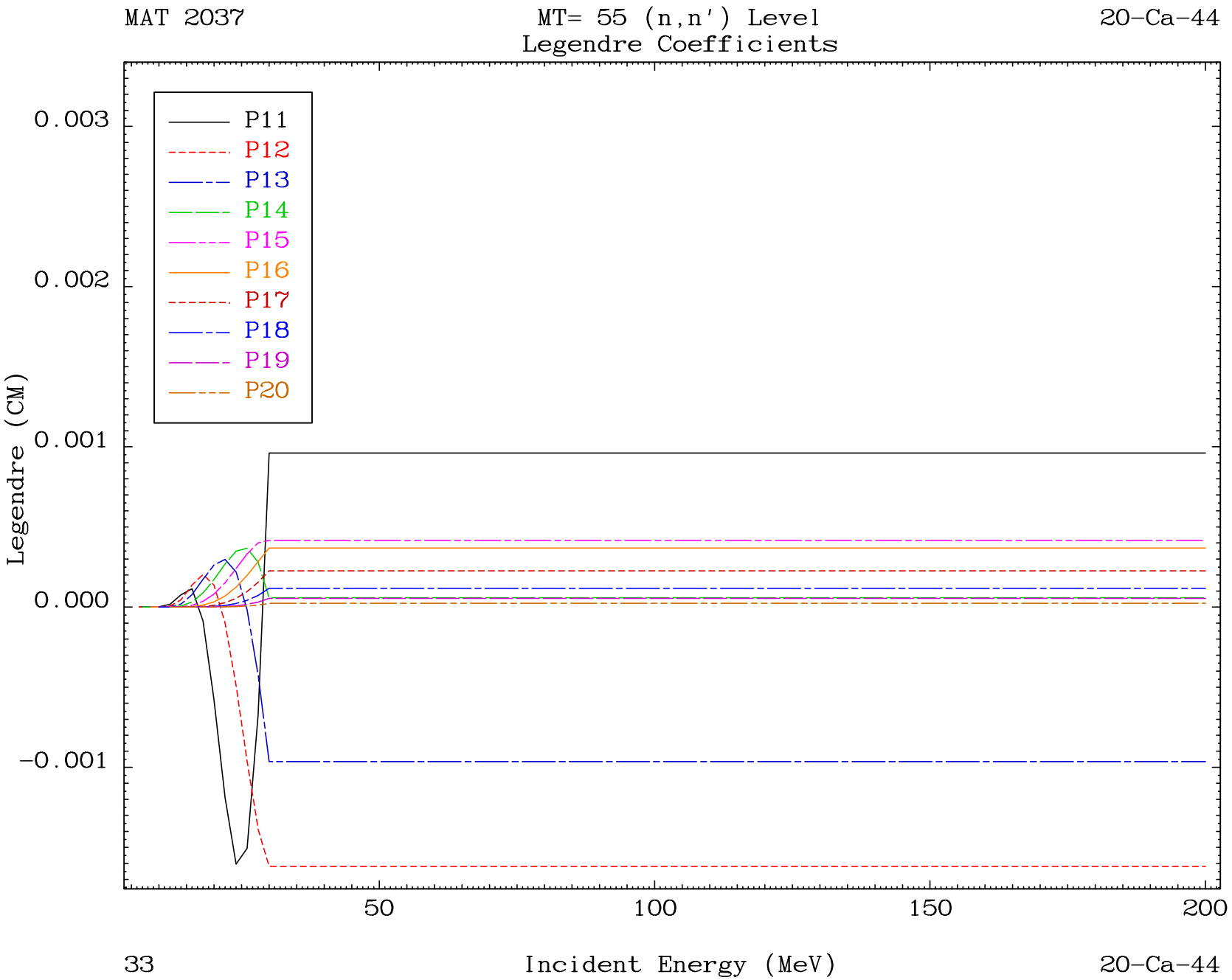

MAT 2037
MT= 53 (n,n') Level
Legendre Coefficients
20-Ca-44
X10-5
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
50
100
150
200
28
Incident Energy (MeV)
20-Ca-44

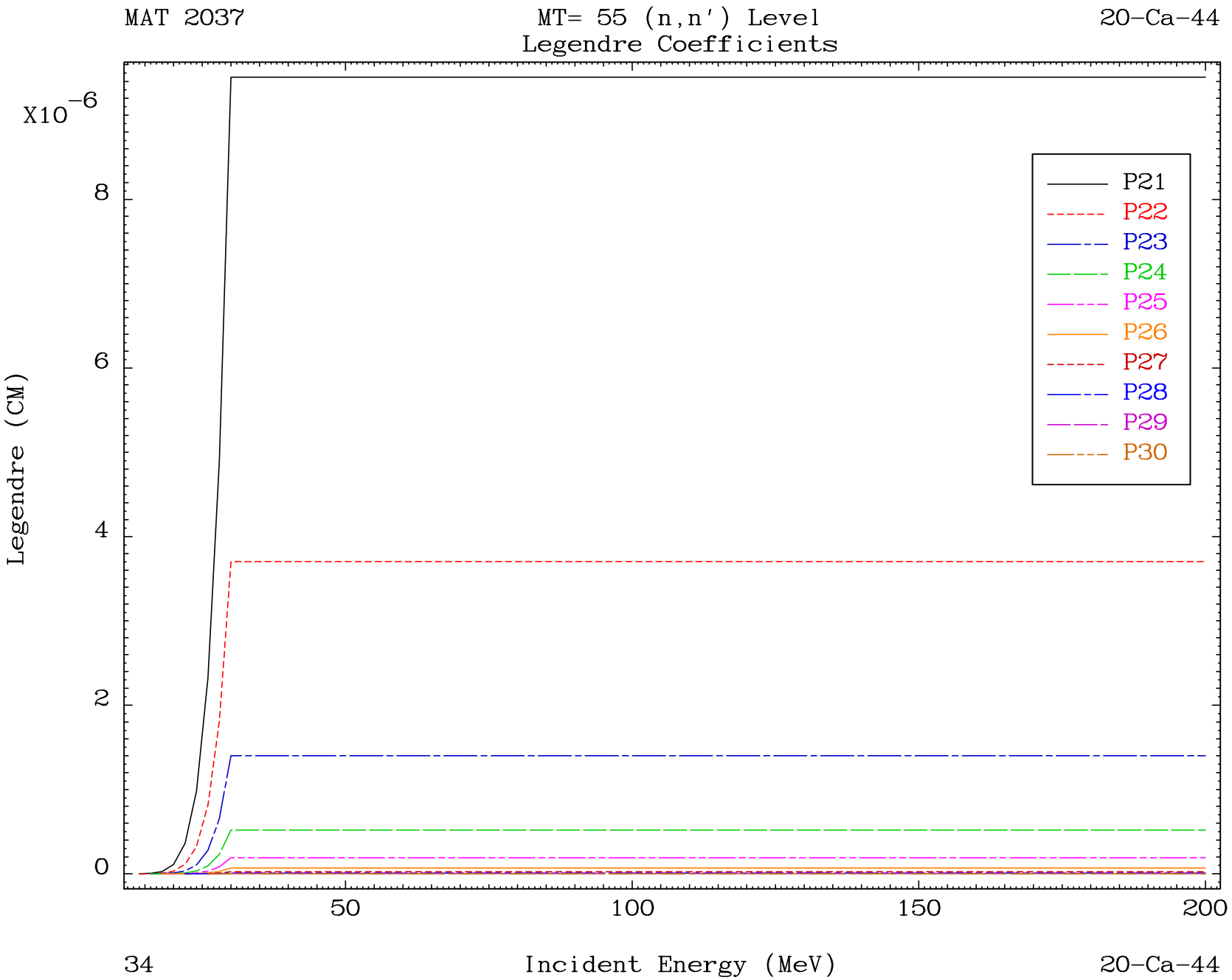

MAT 2037
MT= 54 (n,n') Level
Legendre Coefficients
20-Ca-44
Legendre (CM)
0.5
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
Incident Energy (MeV)
29
20-Ca-44
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11

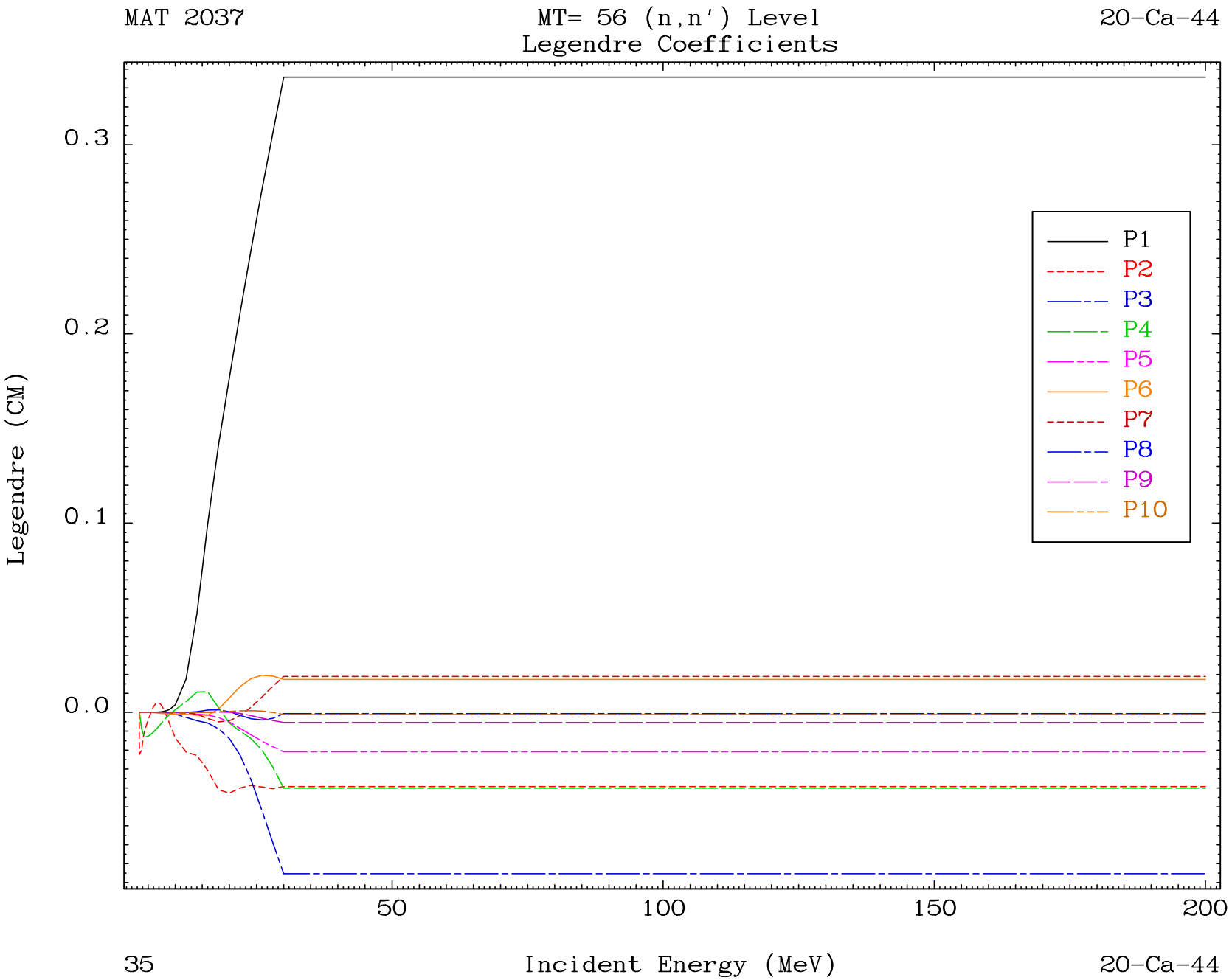

MAT 2037
MT= 54 (n,n') Level
Legendre Coefficients
20-Ca-44
P12
P13
P14
P15
P16
P17
P18
P19
P20
P21
P22
0.020
0.015
0.010
0.005
0.000
Legendre (CM)
30
50
100
150
200
Incident Energy (MeV)
20-Ca-44

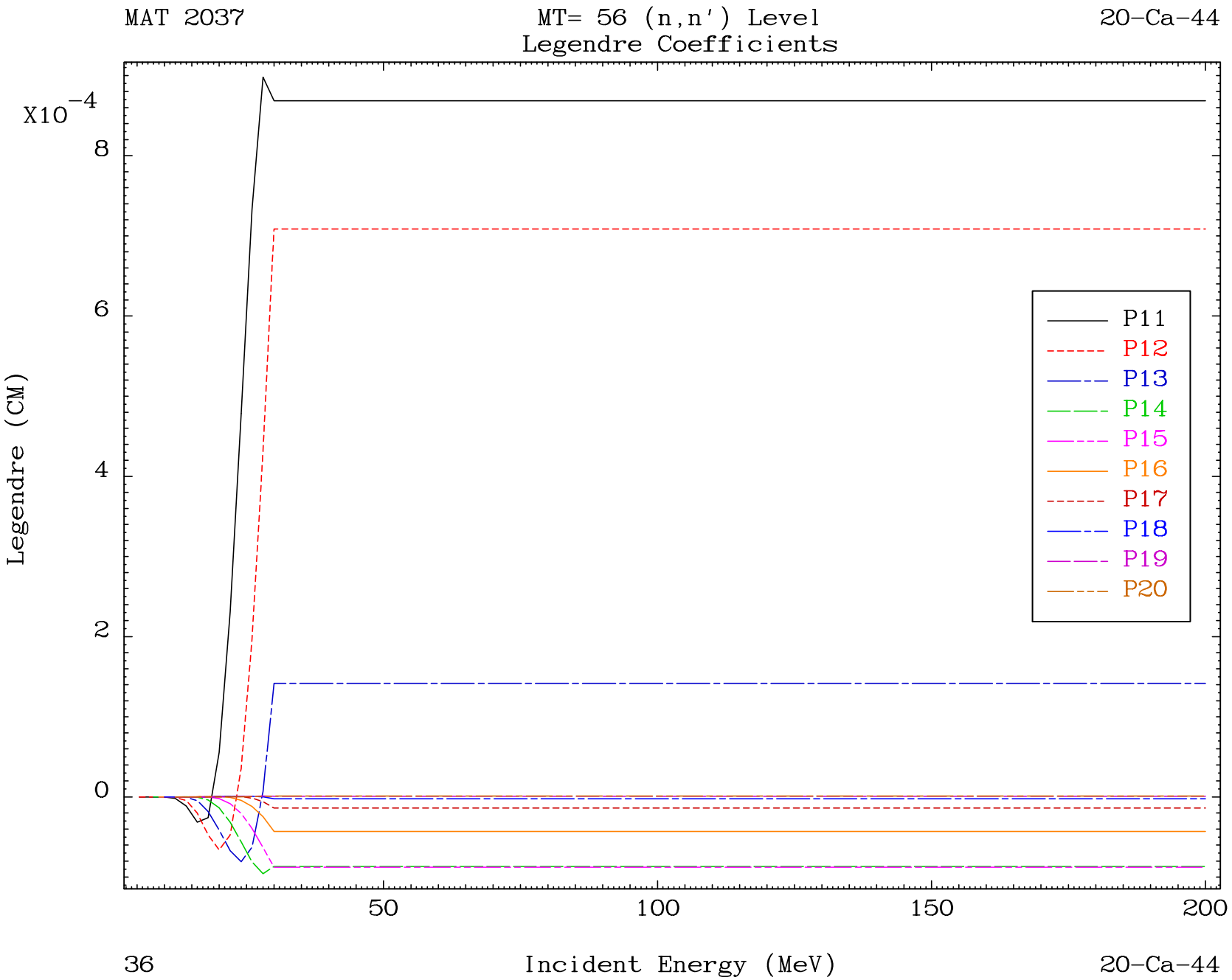

MAT 2037
MT= 54 (n,n') Level
Legendre Coefficients
20-Ca-44
X10^-6
3
2
1
0
Legendre (CM)
P23
P24
P25
P26
P27
P28
P29
P30
P31
P32
50
100
150
200
31
Incident Energy (MeV)
20-Ca-44

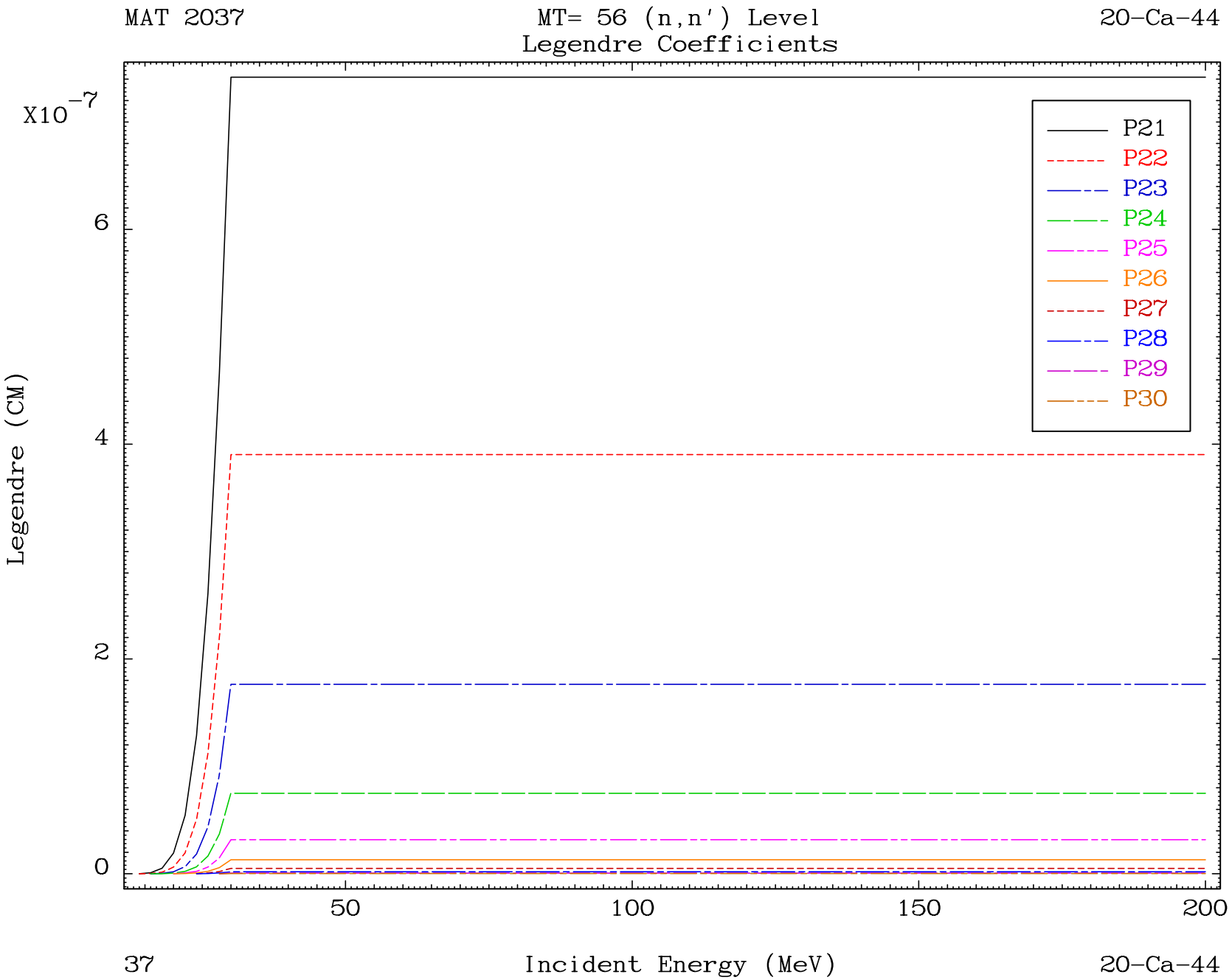

MAT 2037
MT= 55 (n,n') Level
Legendre Coefficients
20-Ca-44
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
50
100
150
200
32
Incident Energy (MeV)
20-Ca-44
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10

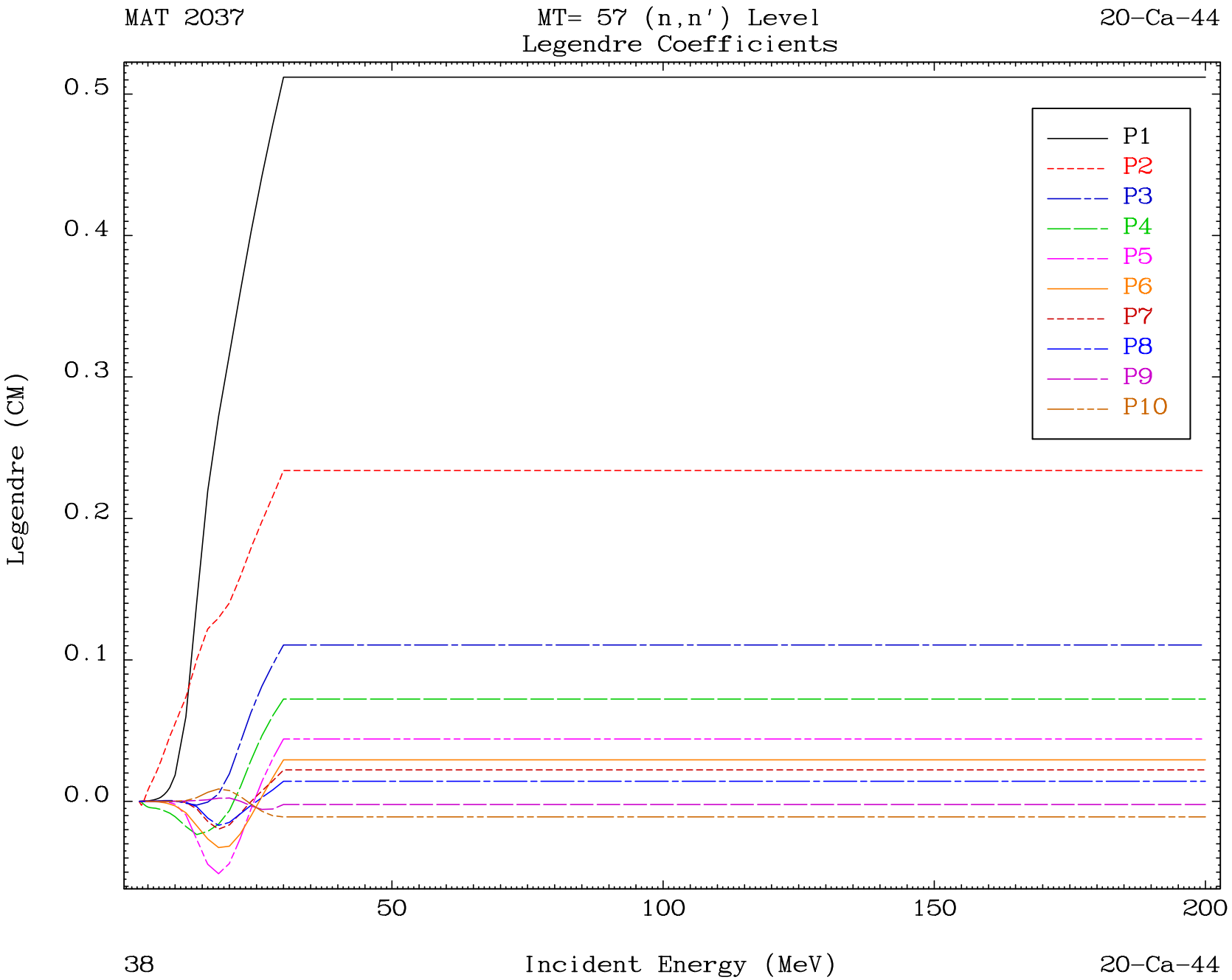

MAT 2037
MT= 55 (n,n') Level
Legendre Coefficients
20-Ca-44
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.003
0.002
0.001
0.000
-0.001
Legendre (CM)
50
100
150
200
33
Incident Energy (MeV)
20-Ca-44

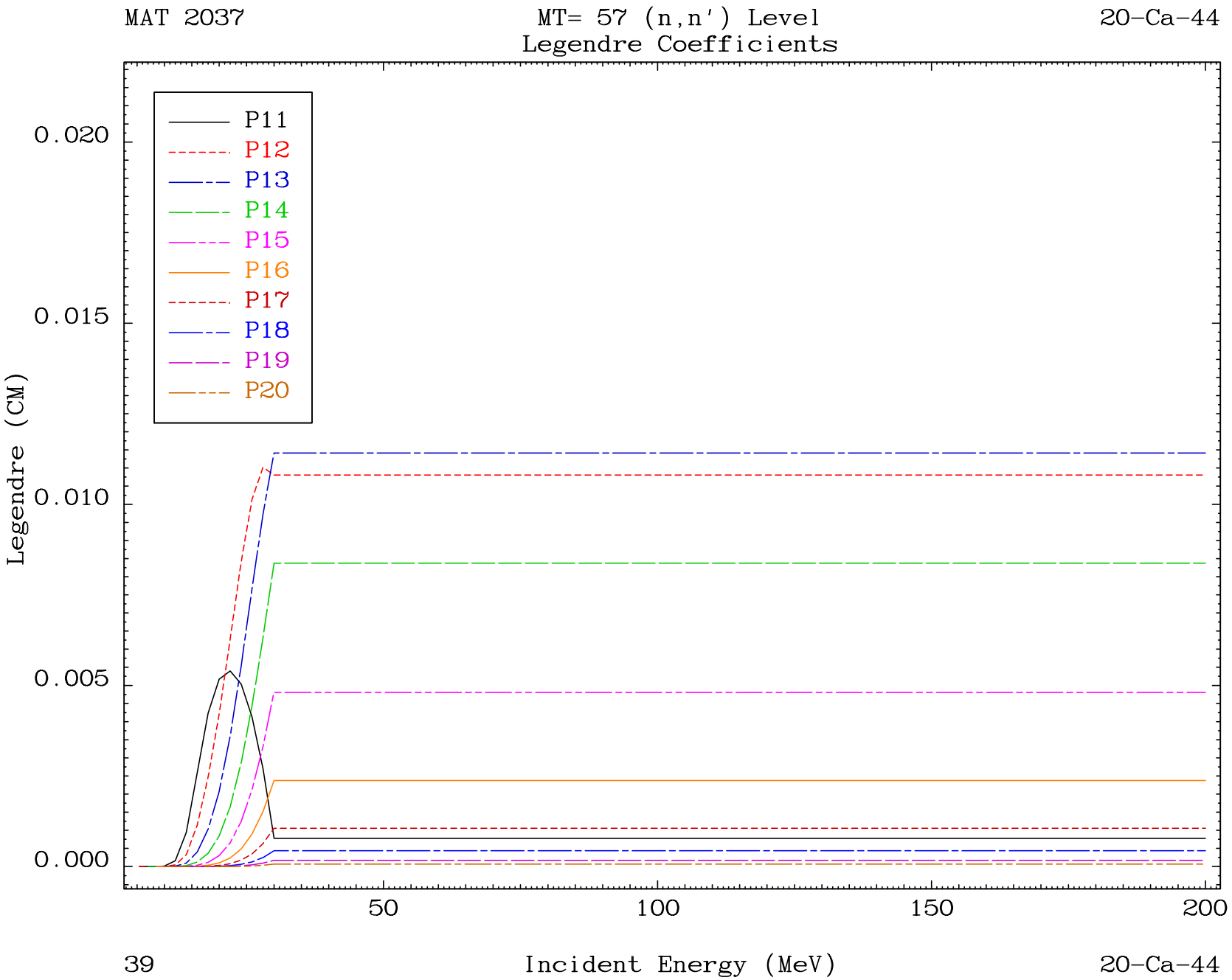

MAT 2037
MT= 55 (n,n') Level
Legendre Coefficients
20-Ca-44
X10-6
8
6
4
2
0
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
50
100
150
200
34
Incident Energy (MeV)
20-Ca-44

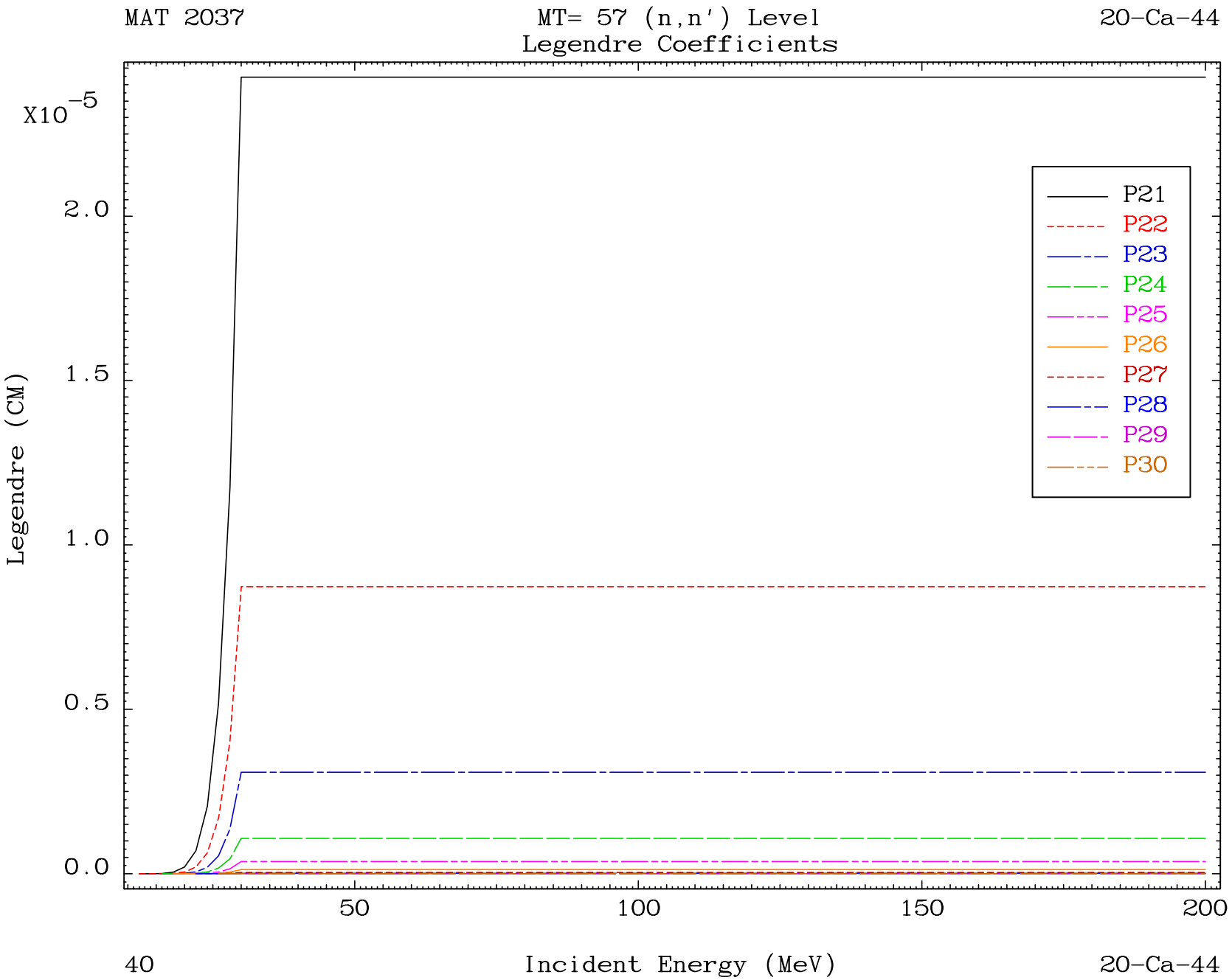

MAT 2037
MT= 56 (n,n') Level
Legendre Coefficients
20-Ca-44
Legendre (CM)
0.3
0.2
0.1
0.0
50
100
150
200
35
Incident Energy (MeV)
20-Ca-44
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10

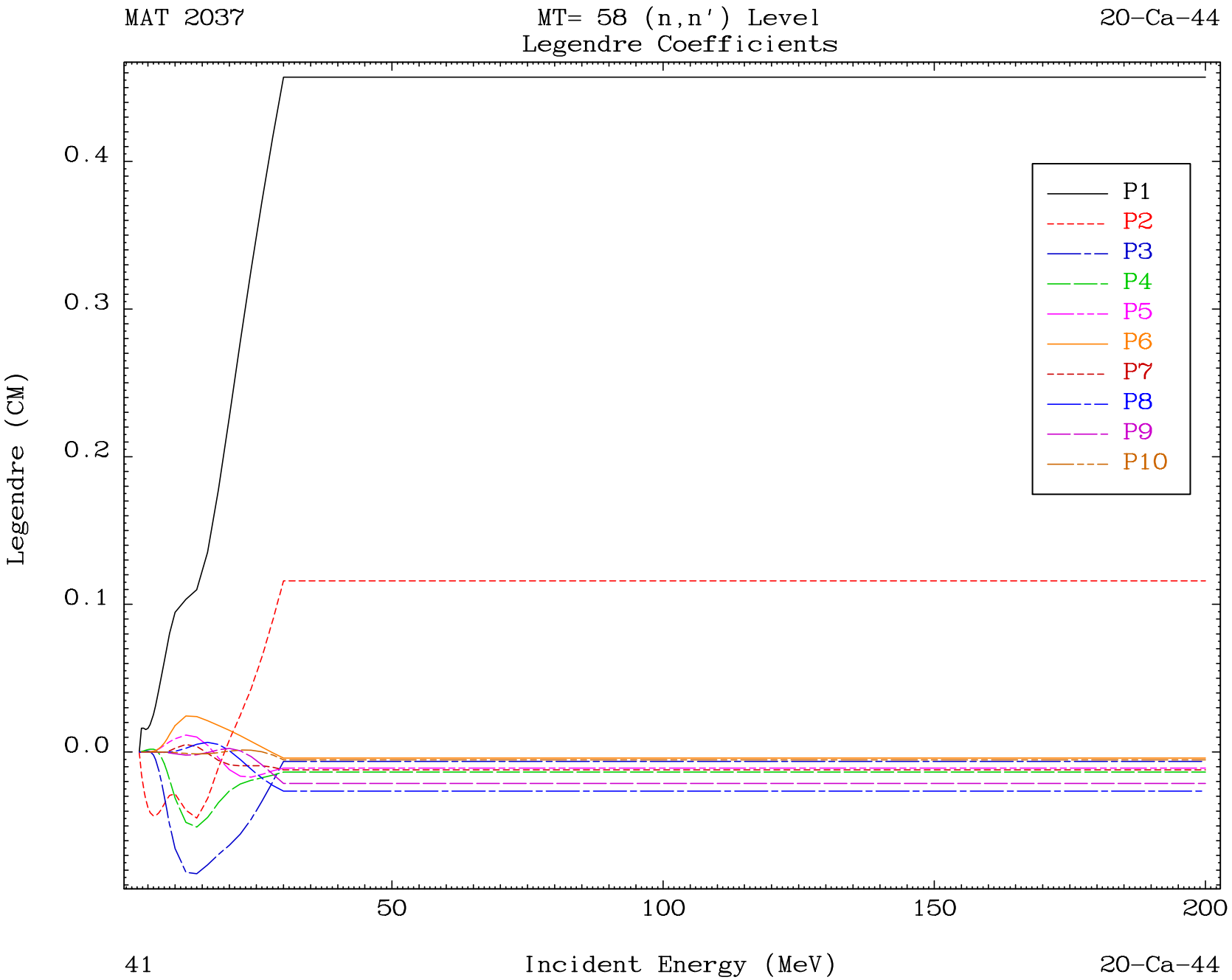

MAT 2037
MT= 56 (n,n') Level
Legendre Coefficients
20-Ca-44
X10 -4
8
6
4
2
0
Legendre (CM)
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
50
100
150
200
36
Incident Energy (MeV)
20-Ca-44

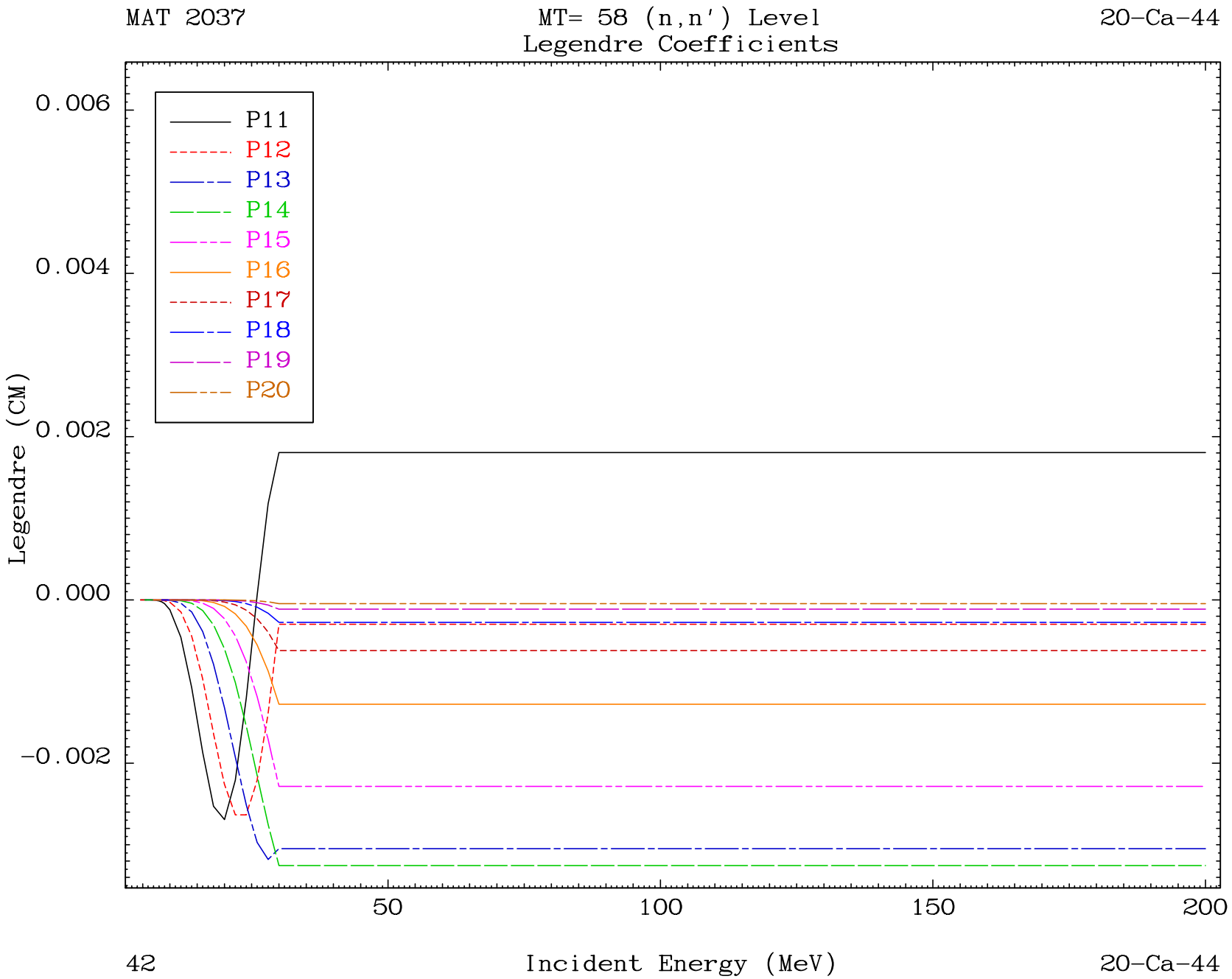

MAT 2037
MT= 56 (n,n') Level
Legendre Coefficients
20-Ca-44
X10-7
6
4
2
0
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
50
100
150
200
37
Incident Energy (MeV)
20-Ca-44

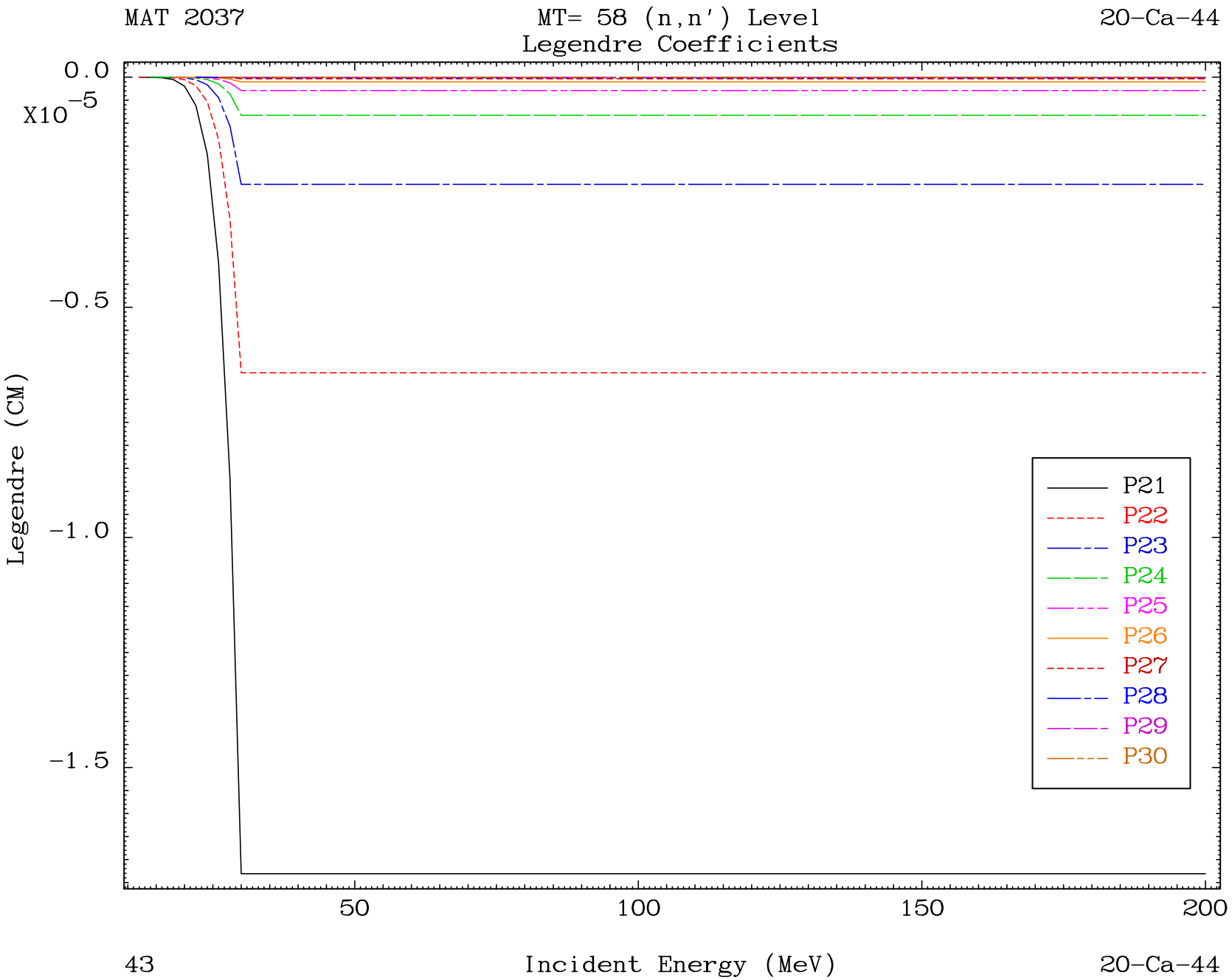

MAT 2037
MT= 57 (n,n') Level
Legendre Coefficients
20-Ca-44
Legendre (CM)
0.5
0.4
0.3
0.2
0.1
0.0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
38
Incident Energy (MeV)
20-Ca-44

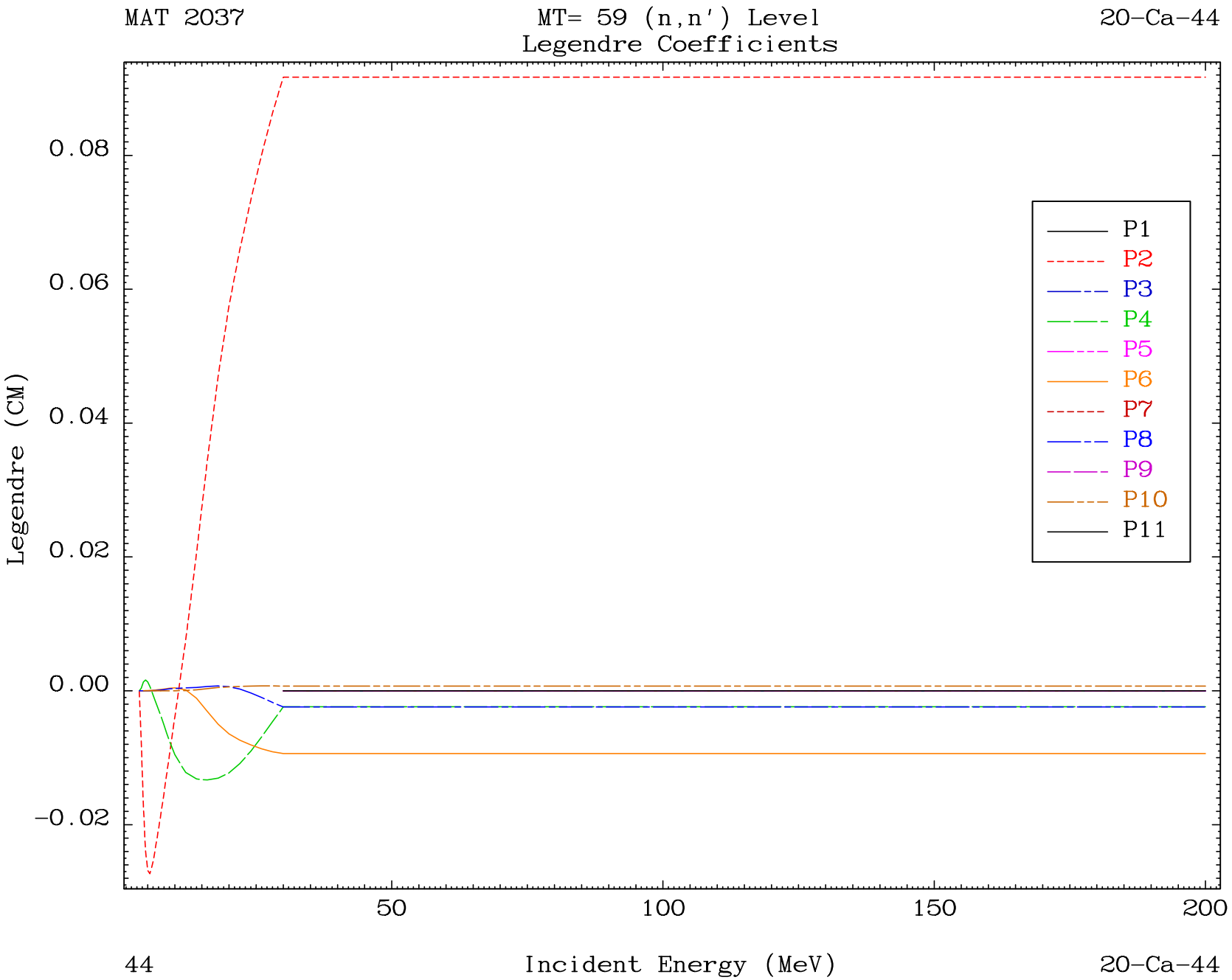

MAT 2037
MT= 57 (n,n') Level
Legendre Coefficients
20-Ca-44
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.020
0.015
0.010
0.005
0.000
Legendre (CM)
50
100
150
200
39
Incident Energy (MeV)
20-Ca-44

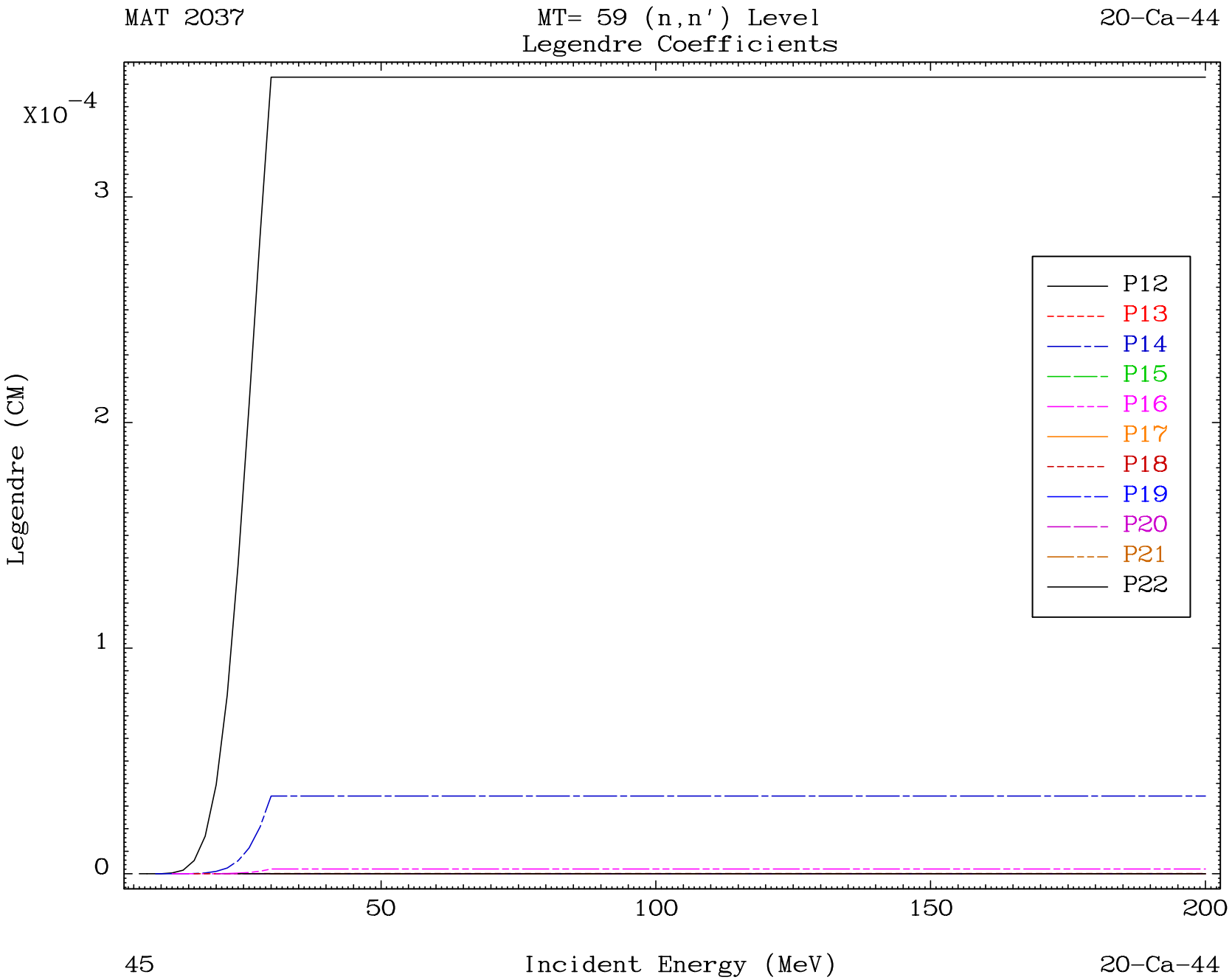

MAT 2037
MT= 57 (n,n') Level
Legendre Coefficients
20-Ca-44
X10-5
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
40
50
100
150
200
Incident Energy (MeV)
20-Ca-44

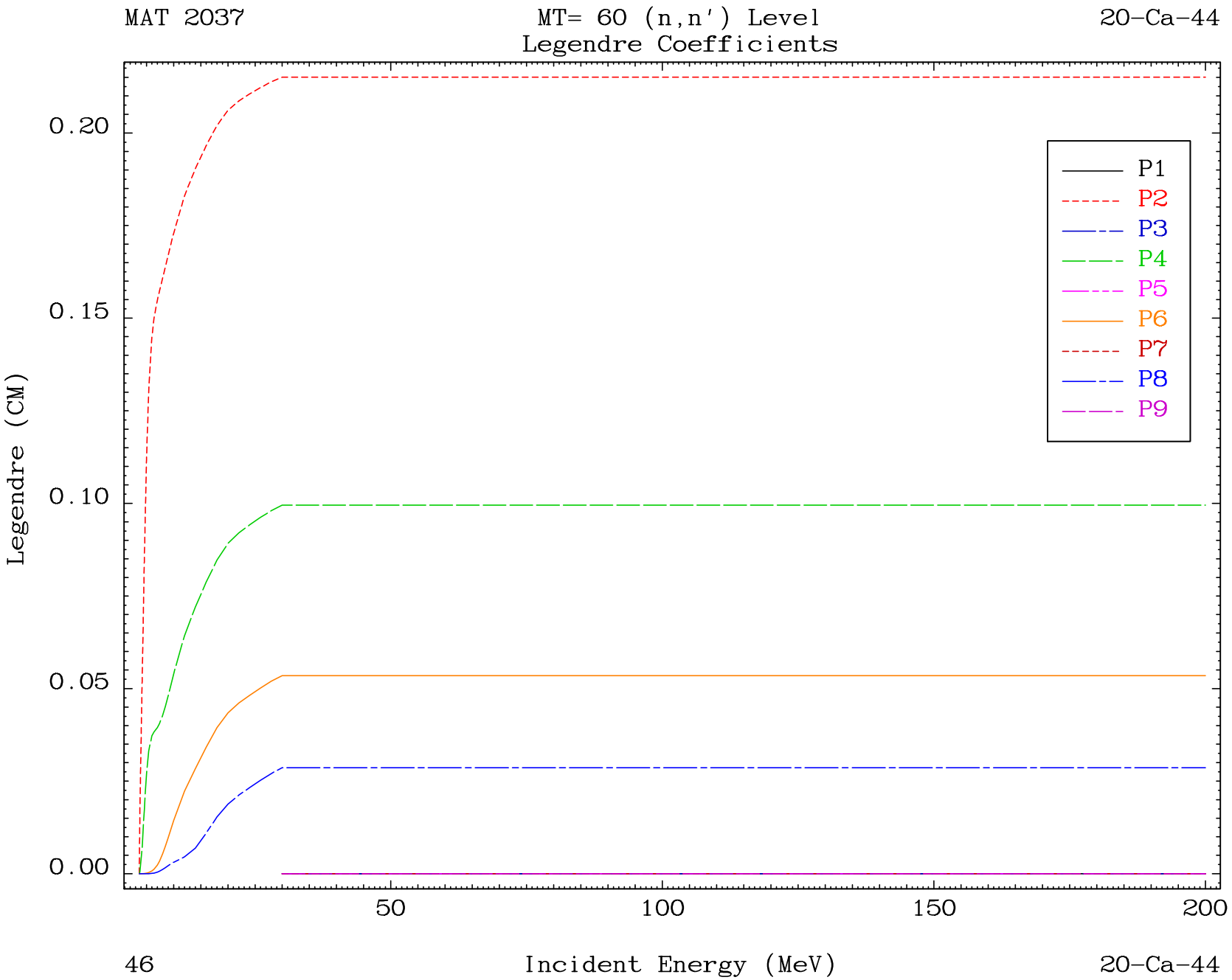

MAT 2037
MT= 58 (n,n') Level
Legendre Coefficients
20-Ca-44
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
50
100
150
200
Incident Energy (MeV)
41
20-Ca-44
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10

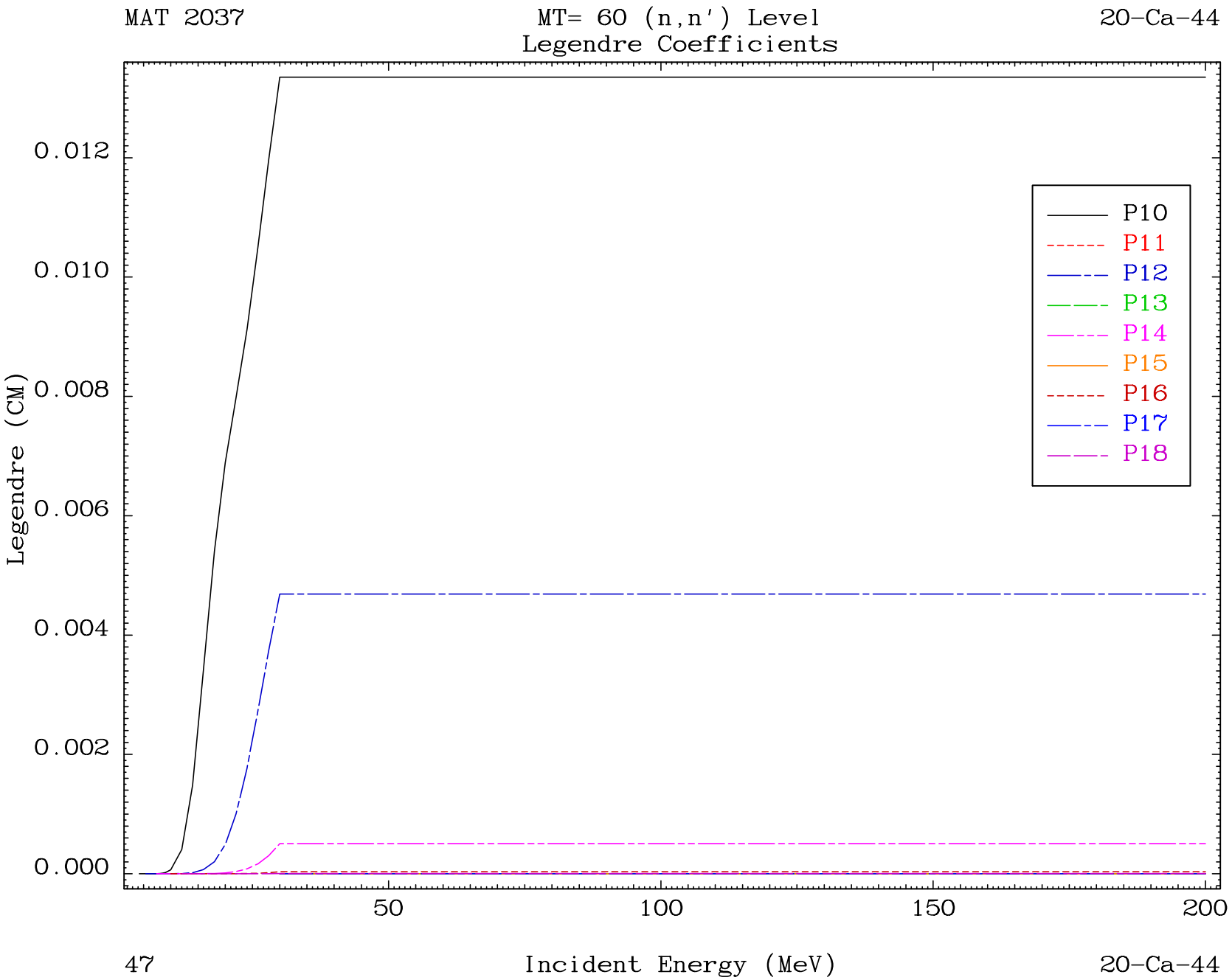

MAT 2037
MT= 58 (n,n') Level
Legendre Coefficients
20-Ca-44
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.006
0.004
0.002
0.000
-0.002
Legendre (CM)
50
100
150
200
42
Incident Energy (MeV)
20-Ca-44

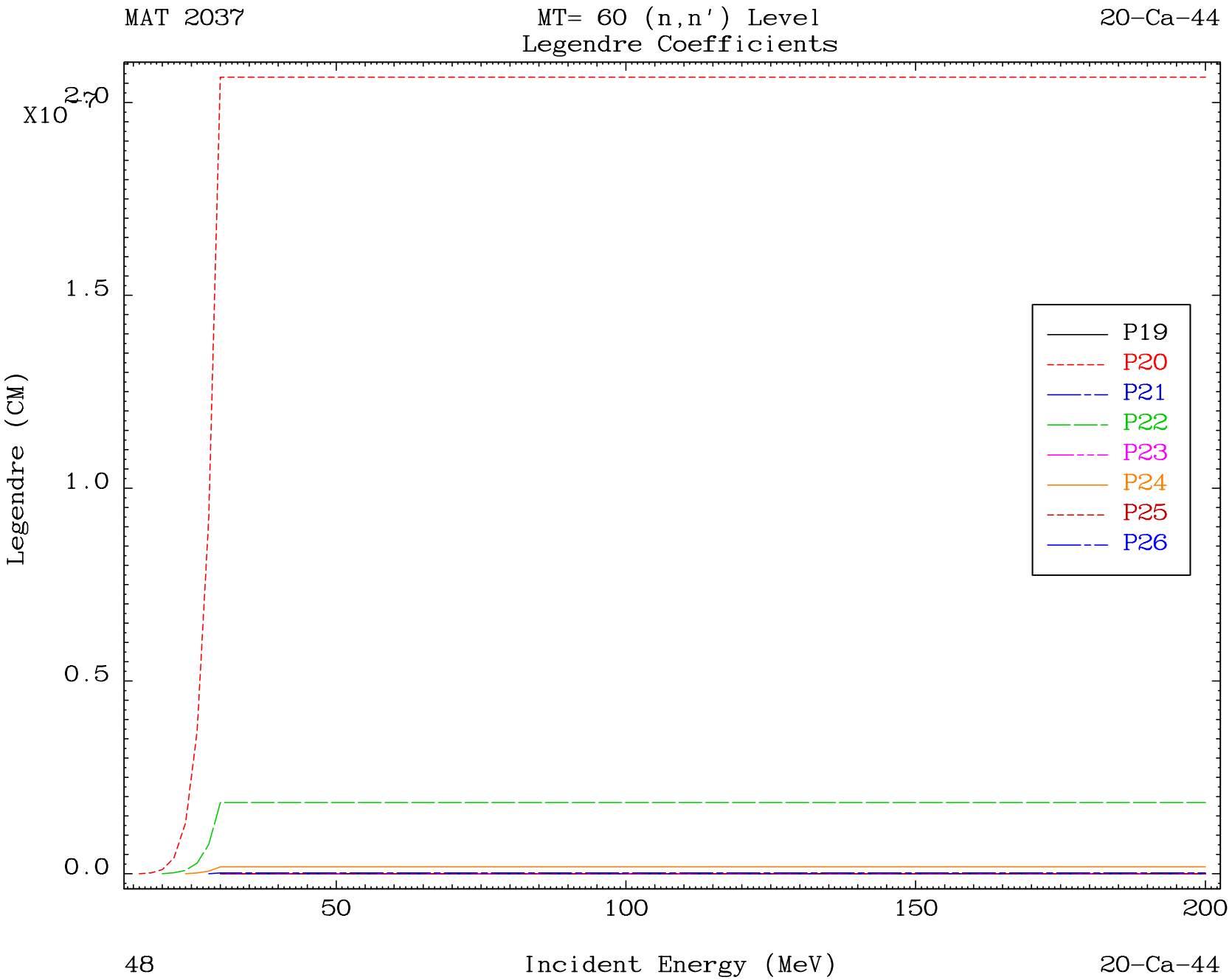

MAT 2037
MT= 58 (n,n') Level
Legendre Coefficients
20-Ca-44
0.0
X10^-5
-0.5
-1.0
-1.5
Legendre (CM)
50
100
150
200
43
Incident Energy (MeV)
20-Ca-44
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30

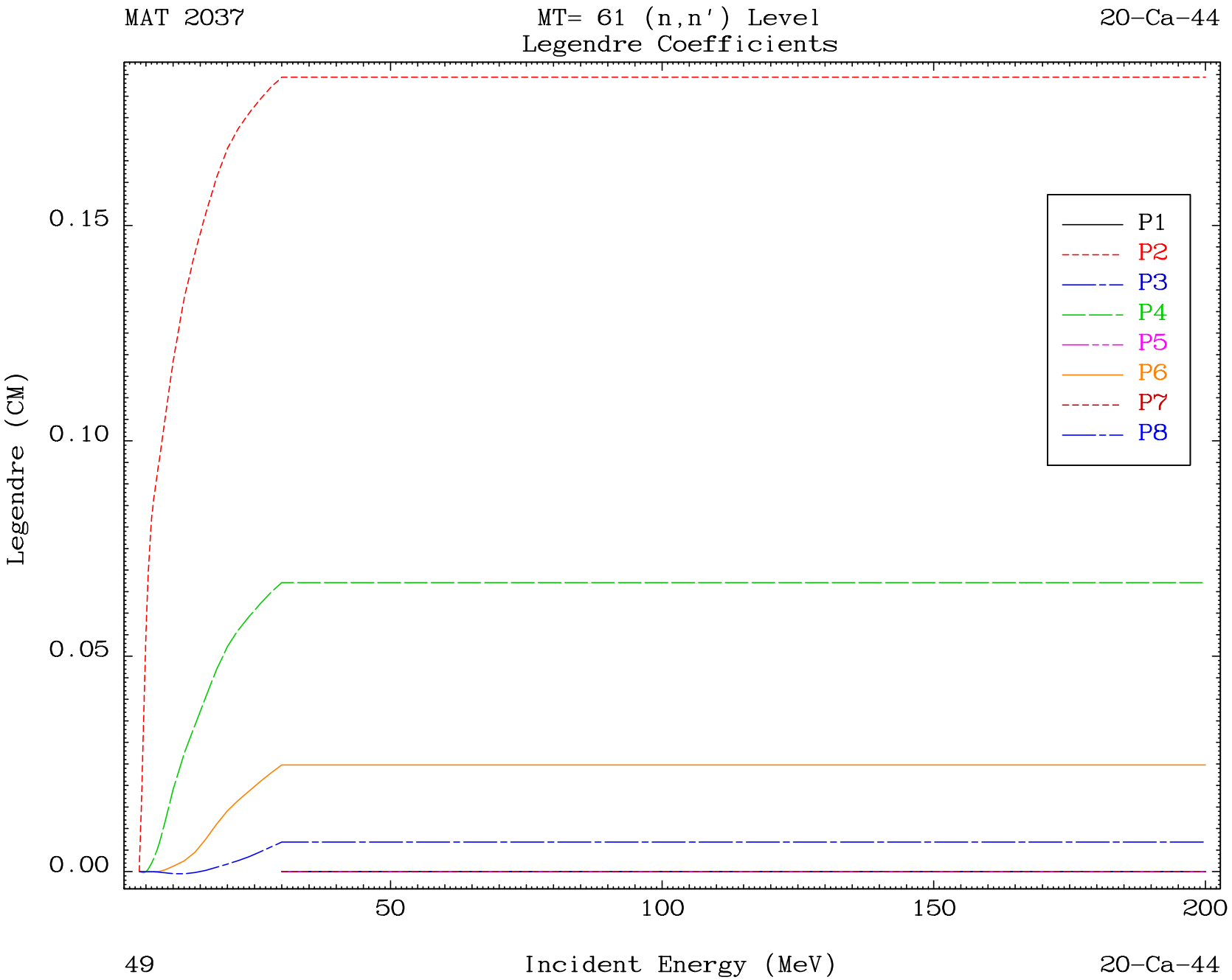

MAT 2037
MT= 59 (n,n') Level
Legendre Coefficients
20-Ca-44
0.08
0.06
0.04
0.02
0.00
-0.02
Legendre (CM)
50
100
150
200
44
Incident Energy (MeV)
20-Ca-44
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11

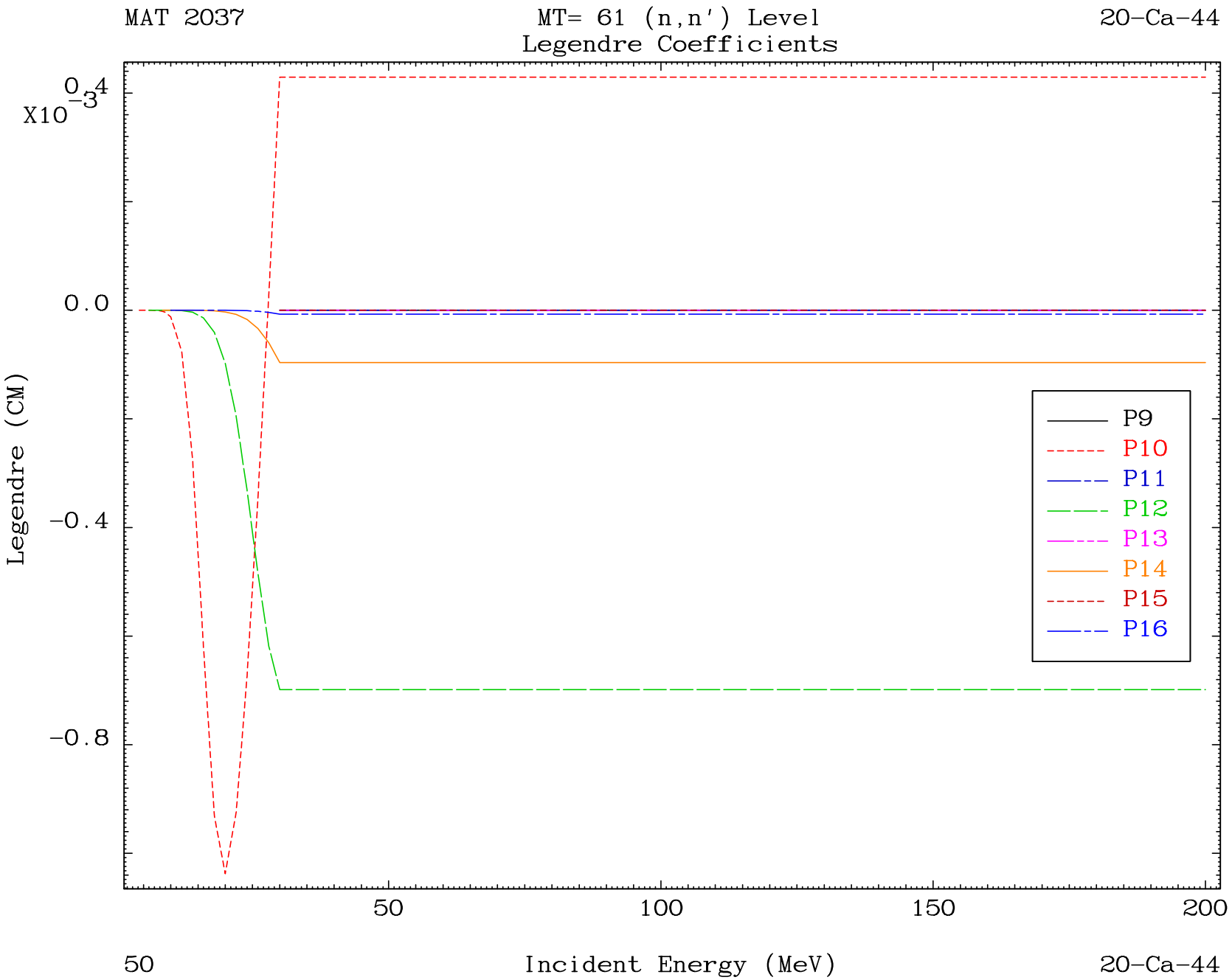

MAT 2037
MT= 59 (n,n') Level
Legendre Coefficients
20-Ca-44
X10^-4
3
2
1
0
Legendre (CM)
P12
P13
P14
P15
P16
P17
P18
P19
P20
P21
P22
50
100
150
200
45
Incident Energy (MeV)
20-Ca-44

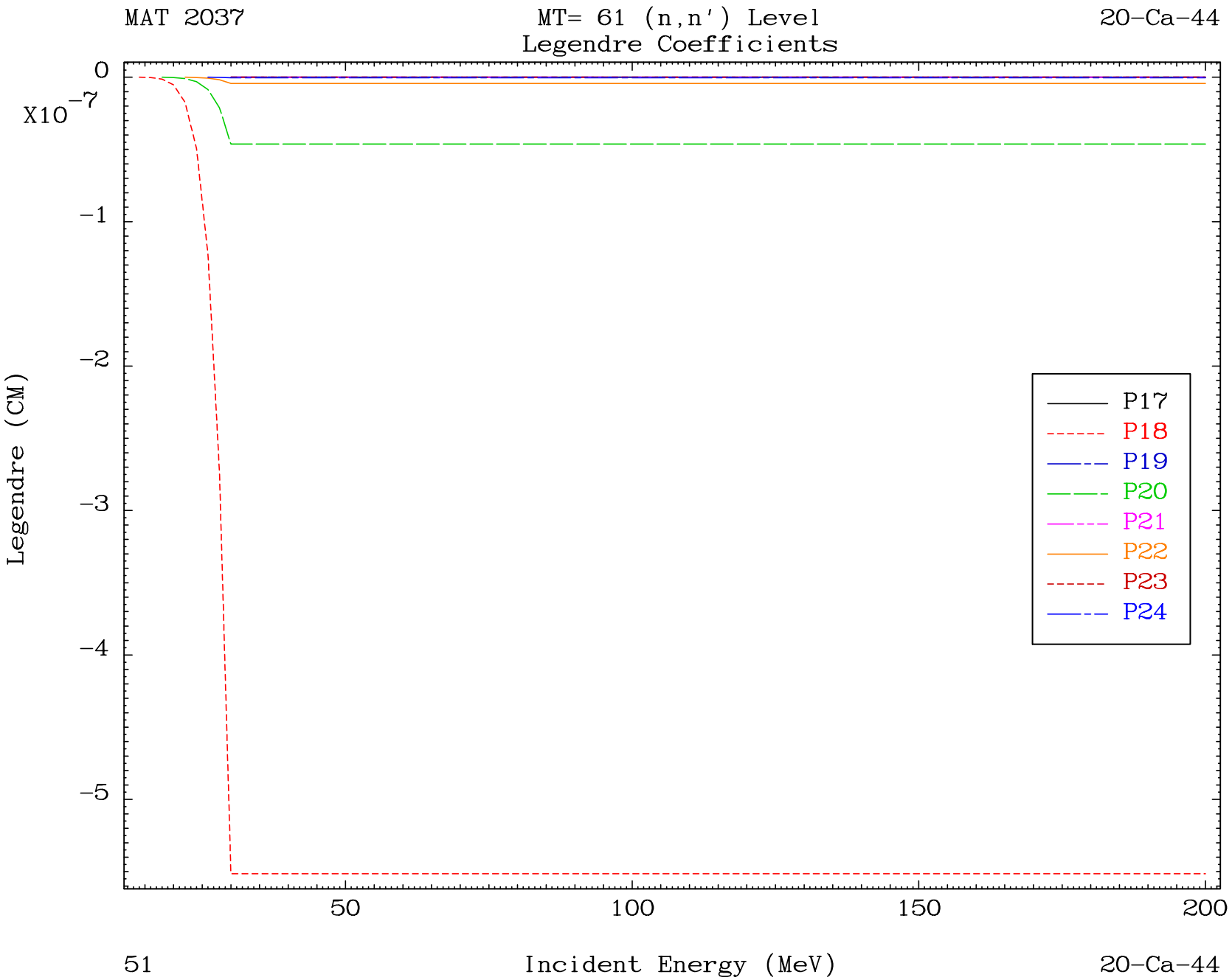

MAT 2037
MT= 60 (n,n') Level
Legendre Coefficients
20-Ca-44
0.20
0.15
0.10
0.05
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
50
100
150
200
46
Incident Energy (MeV)
20-Ca-44

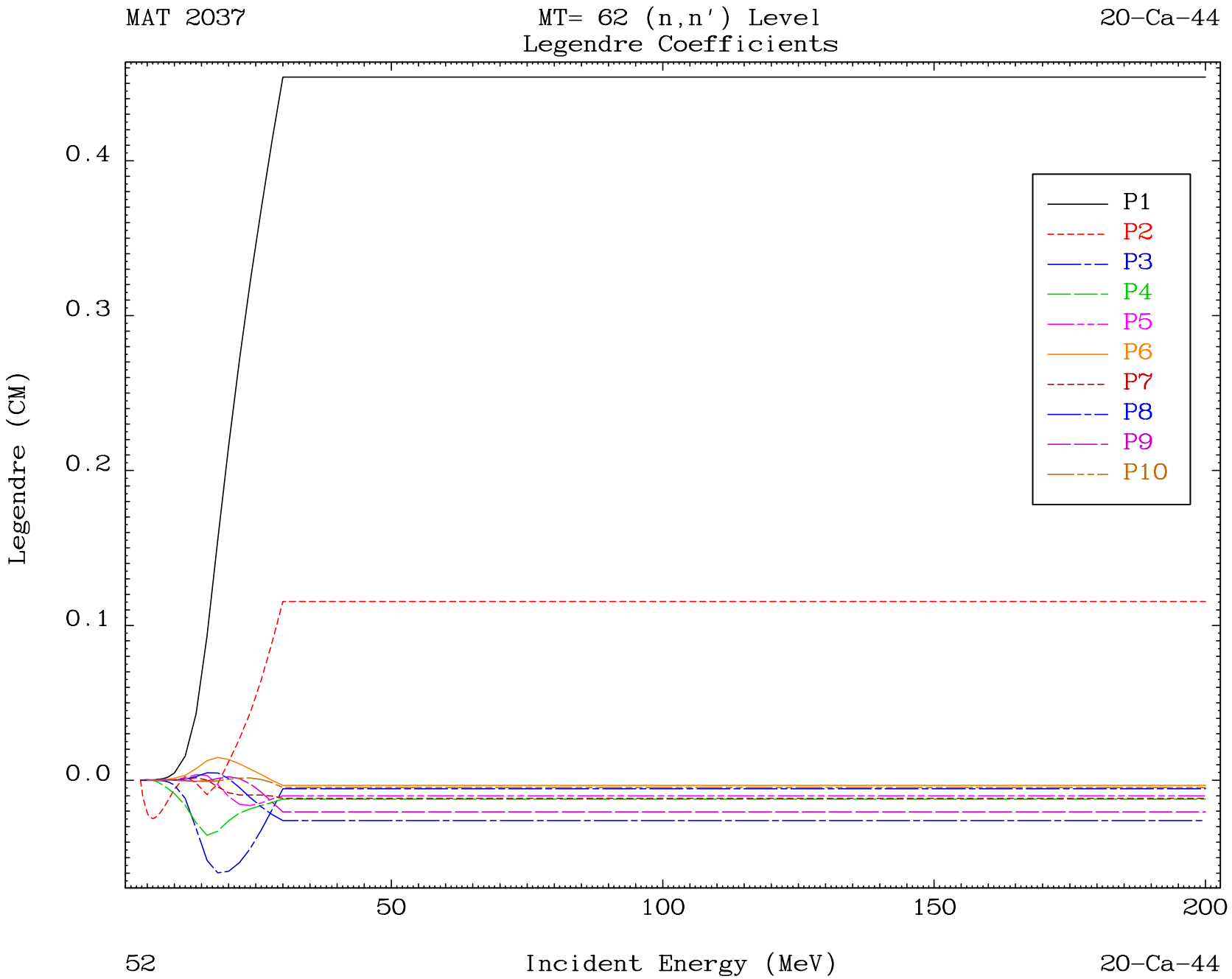

MAT 2037
MT= 60 (n,n') Level
Legendre Coefficients
20-Ca-44
0.012
0.010
0.008
0.006
0.004
0.002
0.000
Legendre (CM)
50
100
150
200
47
Incident Energy (MeV)
20-Ca-44
P10
P11
P12
P13
P14
P15
P16
P17
P18

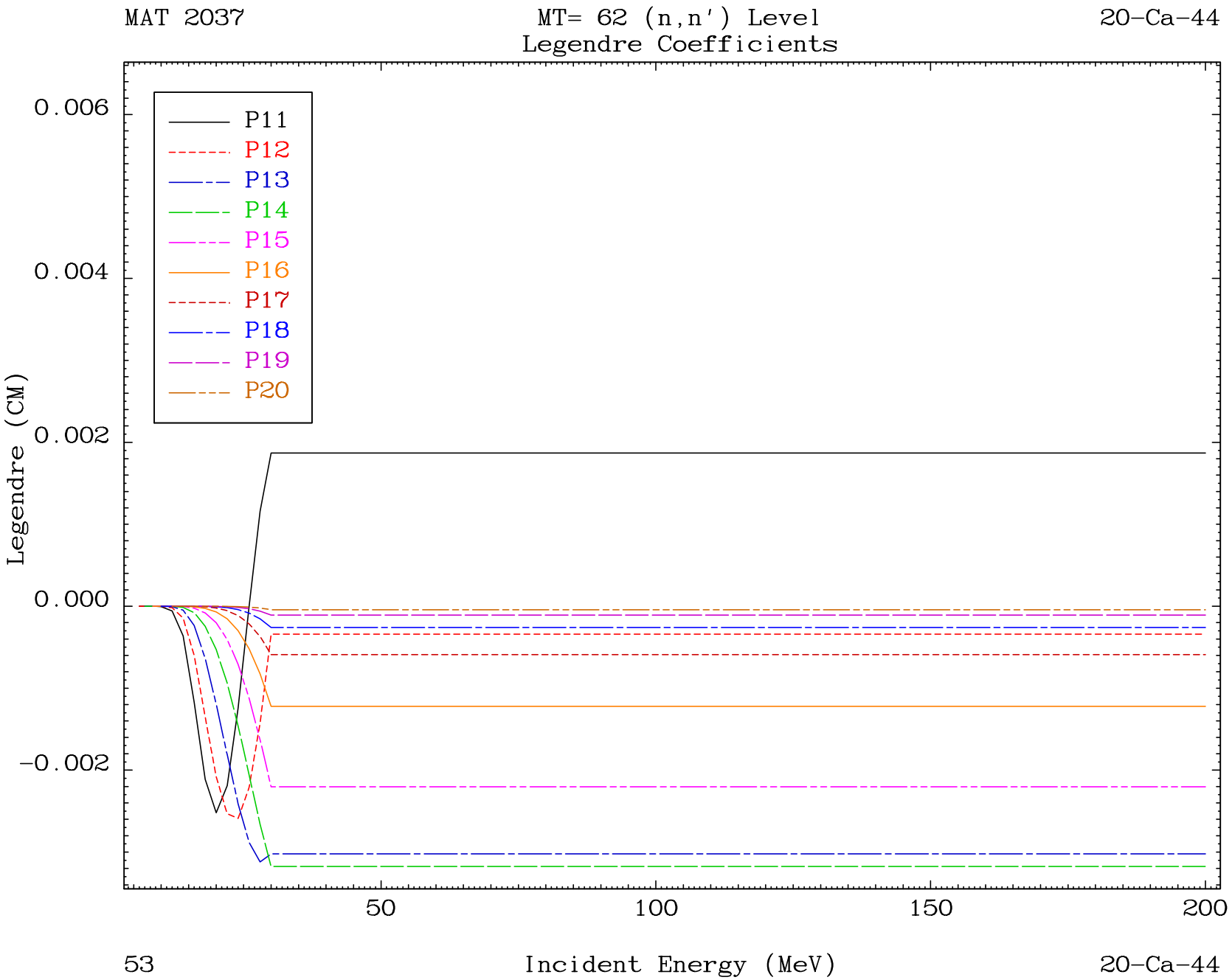

MAT 2037
MT= 60 (n,n') Level
Legendre Coefficients
20-Ca-44
X10^-2
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
50
100
150
200
48
Incident Energy (MeV)
20-Ca-44

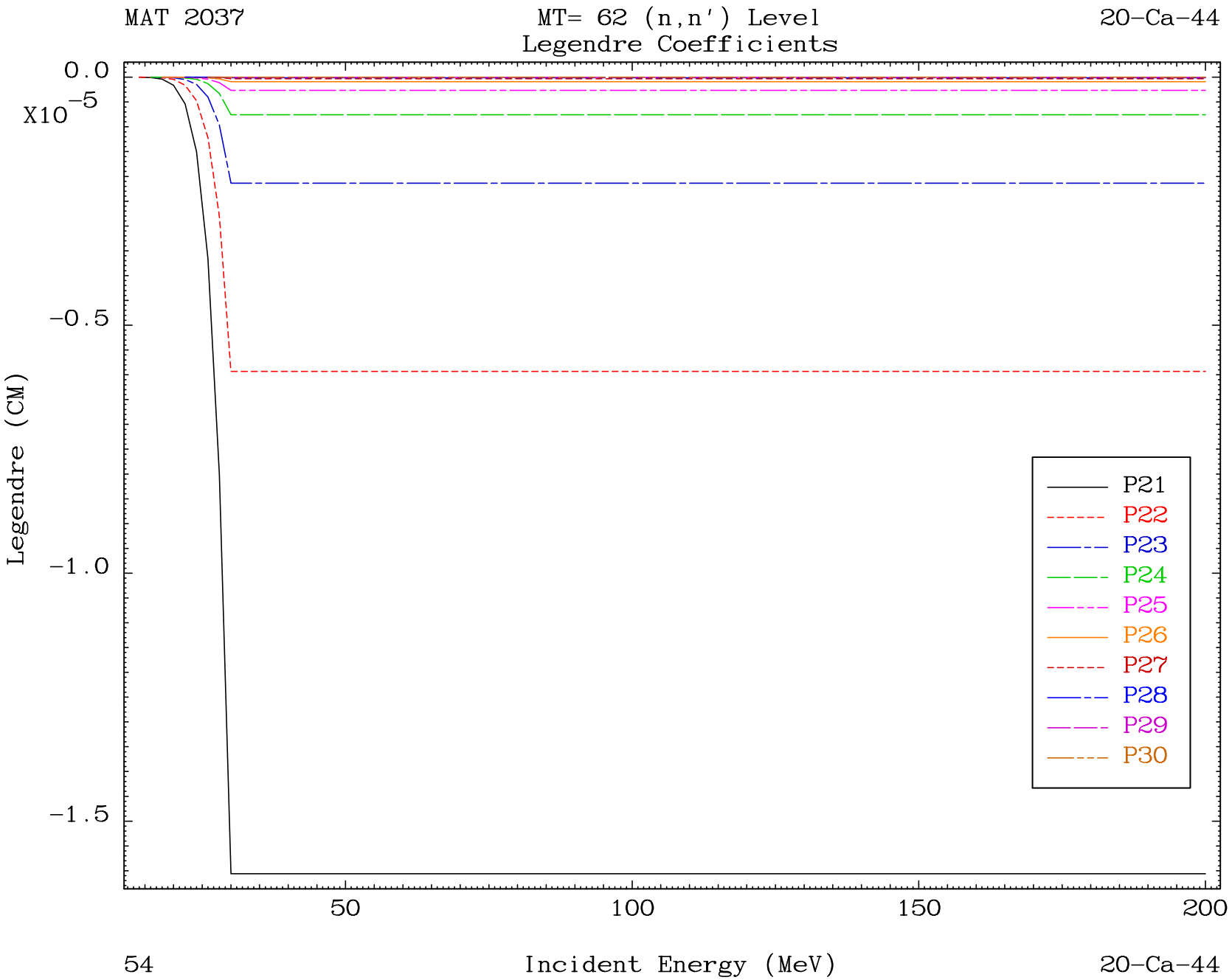

MAT 2037
MT= 61 (n,n') Level
Legendre Coefficients
20-Ca-44
0.15
0.10
0.05
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
50
100
150
200
49
Incident Energy (MeV)
20-Ca-44

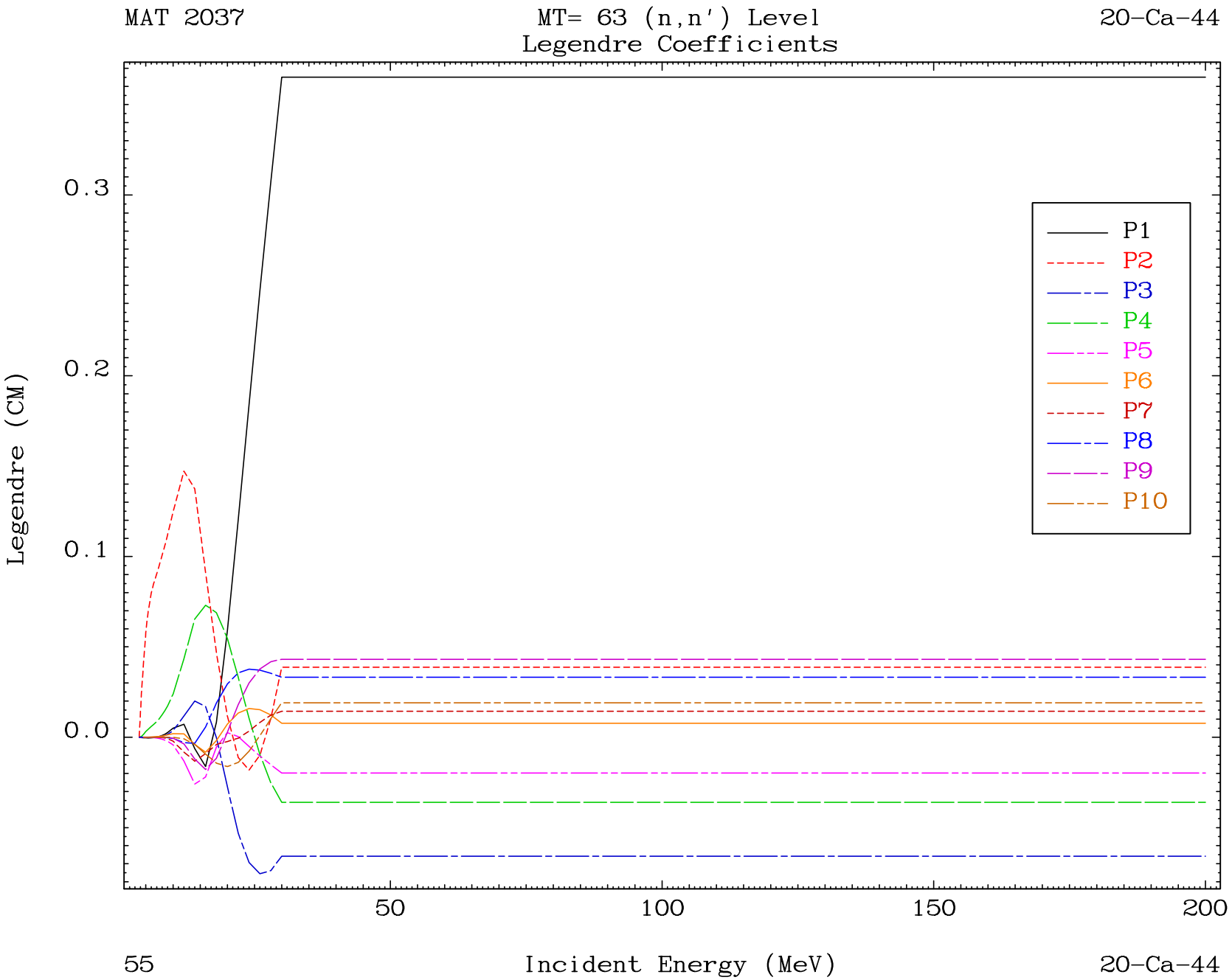

MAT 2037
MT= 61 (n,n') Level
Legendre Coefficients
20-Ca-44
X10-3
0.4
0.0
-0.4
-0.8
Legendre (CM)
50
100
150
200
50
Incident Energy (MeV)
20-Ca-44
P9
P10
P11
P12
P13
P14
P15
P16

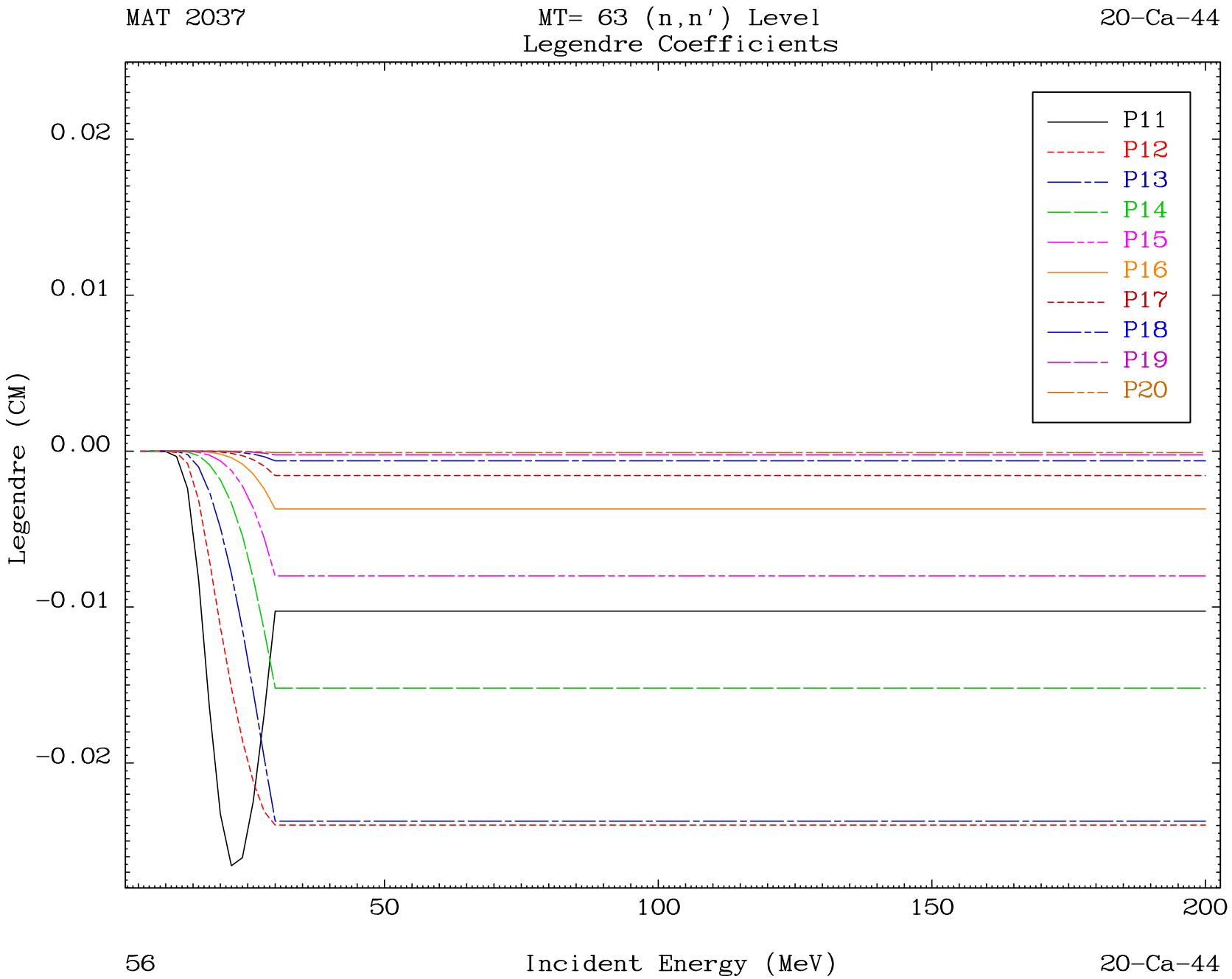

MAT 2037
MT= 61 (n,n') Level
Legendre Coefficients
20-Ca-44
X10-7
0
-1
-2
-3
-4
-5
Legendre (CM)
50
100
150
200
P17
P18
P19
P20
P21
P22
P23
P24
51
Incident Energy (MeV)
20-Ca-44

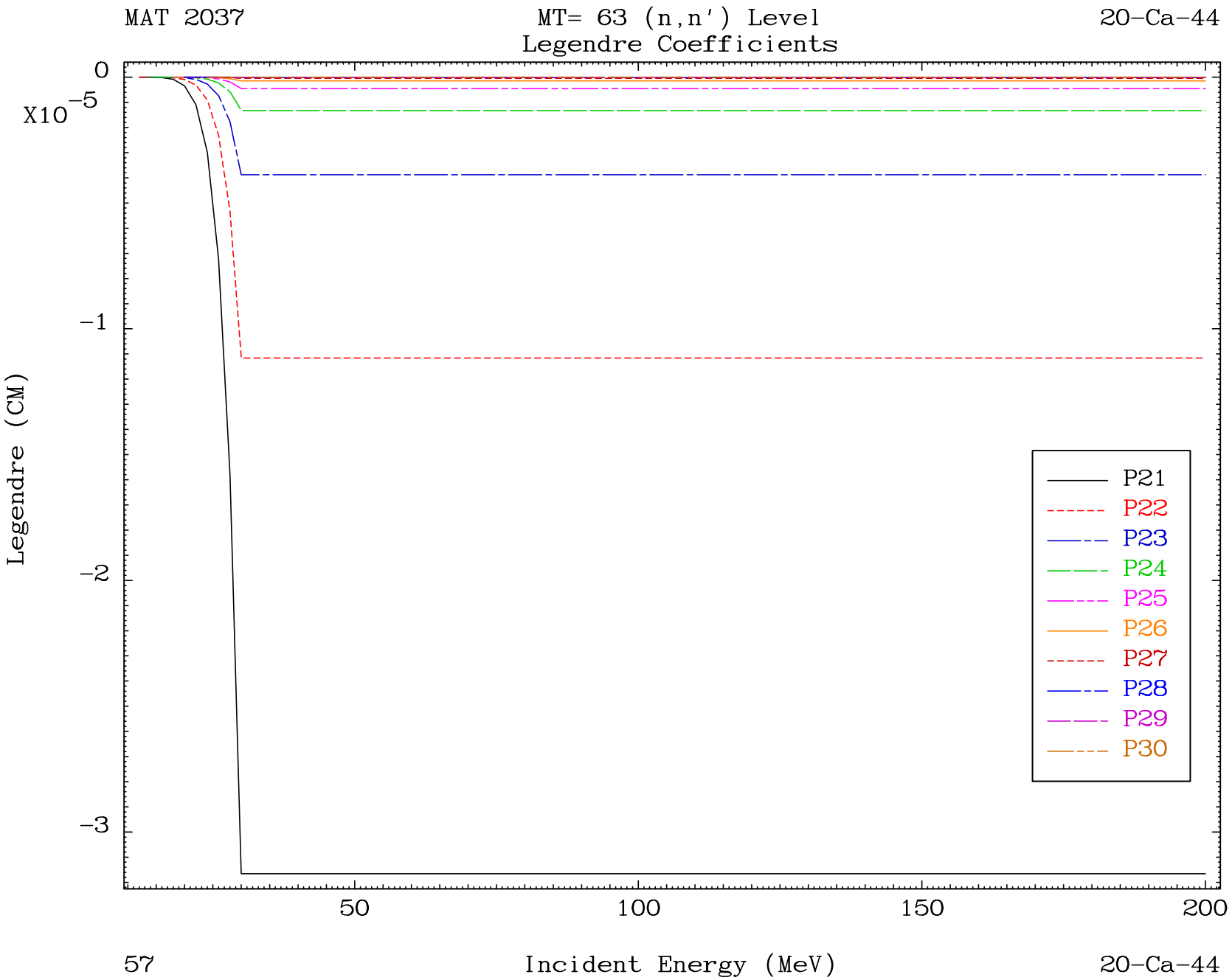

MAT 2037
MT= 62 (n,n') Level
Legendre Coefficients
20-Ca-44
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
52
Incident Energy (MeV)
20-Ca-44

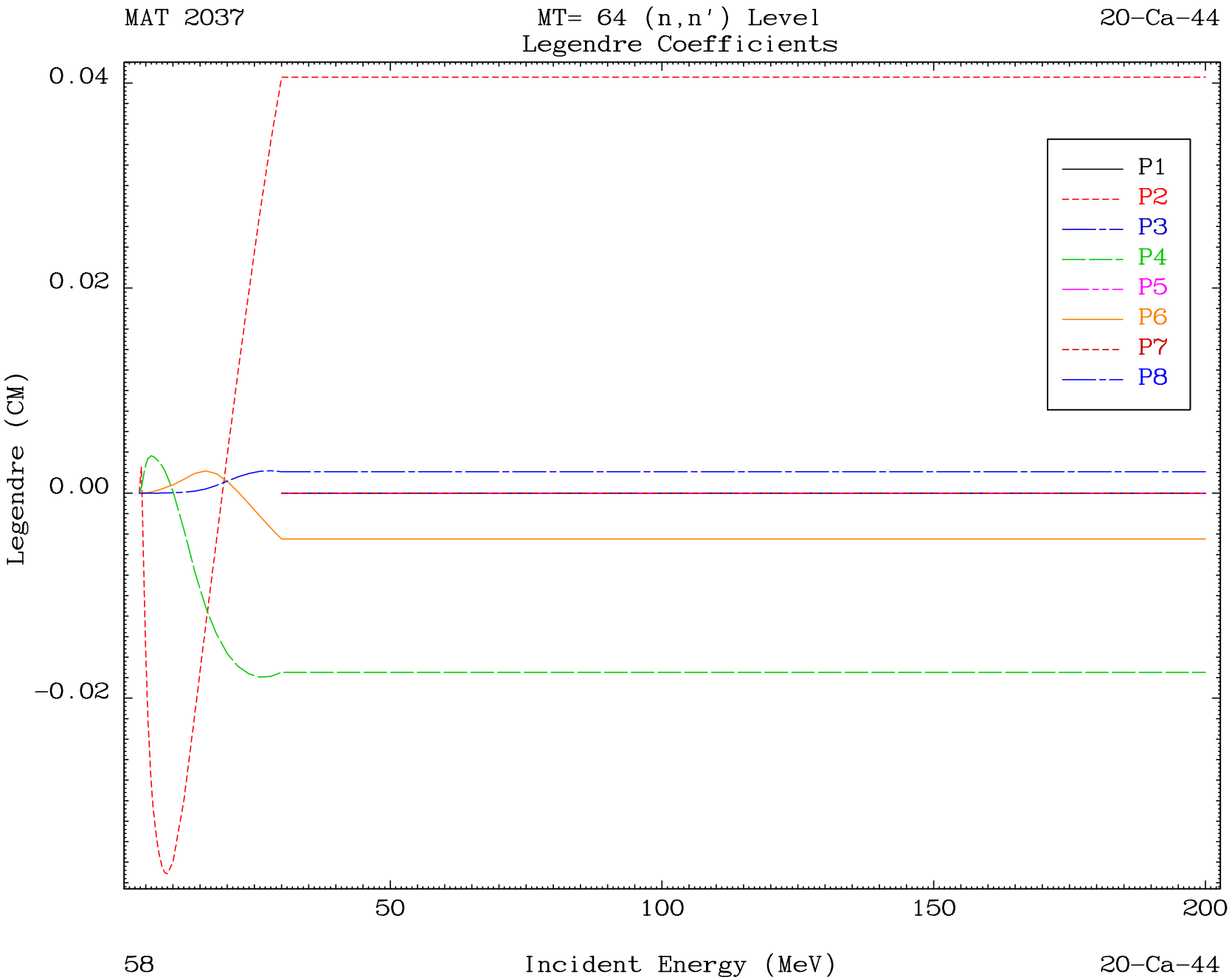

MAT 2037
MT= 62 (n,n') Level
Legendre Coefficients
20-Ca-44
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.006
0.004
0.002
0.000
-0.002
Legendre (CM)
50
100
150
200
Incident Energy (MeV)
53
20-Ca-44

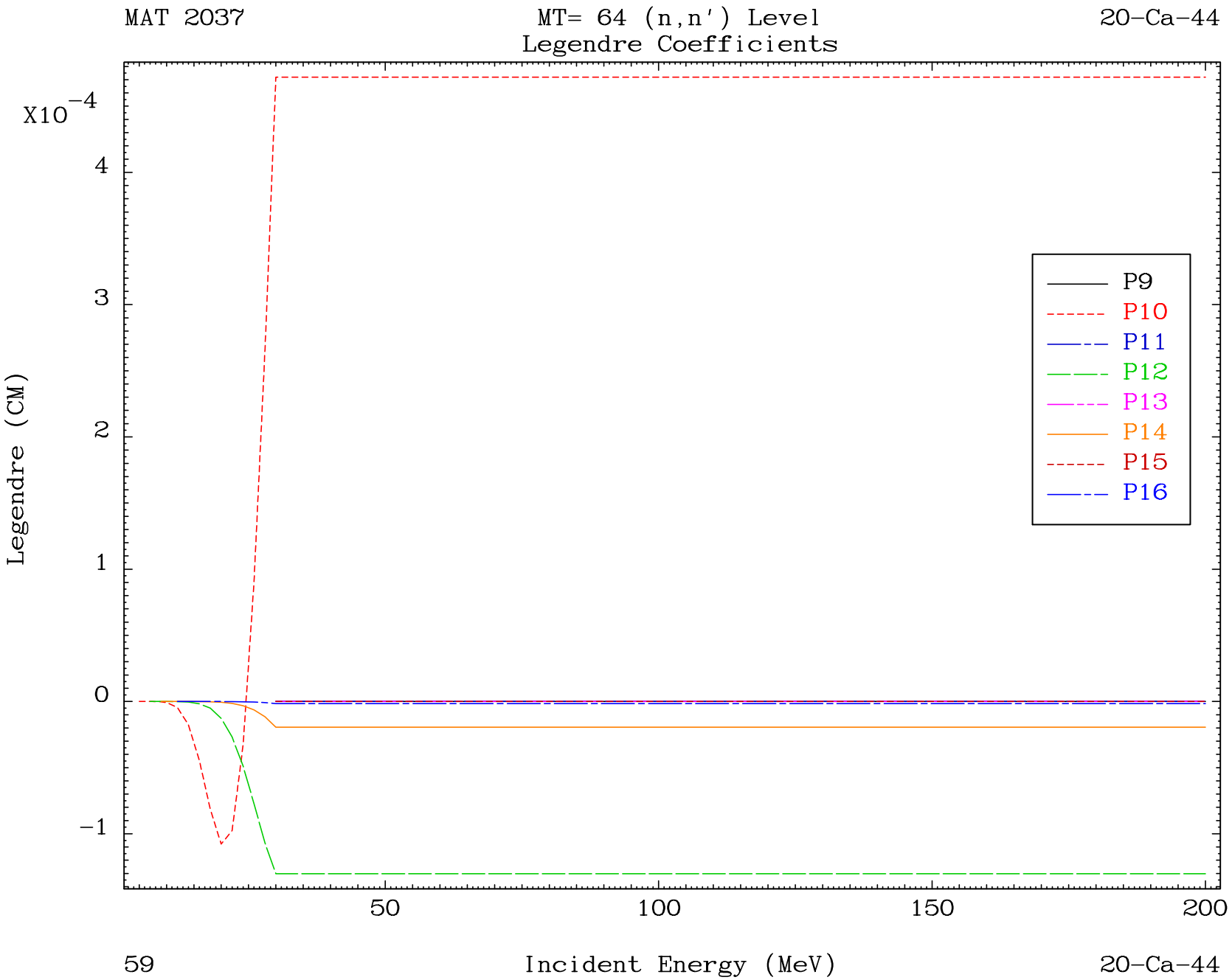

MAT 2037
MT= 62 (n,n') Level
Legendre Coefficients
20-Ca-44
0.0
X10^-5
-0.5
-1.0
-1.5
Legendre (CM)
50
100
150
200
54
Incident Energy (MeV)
20-Ca-44
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30

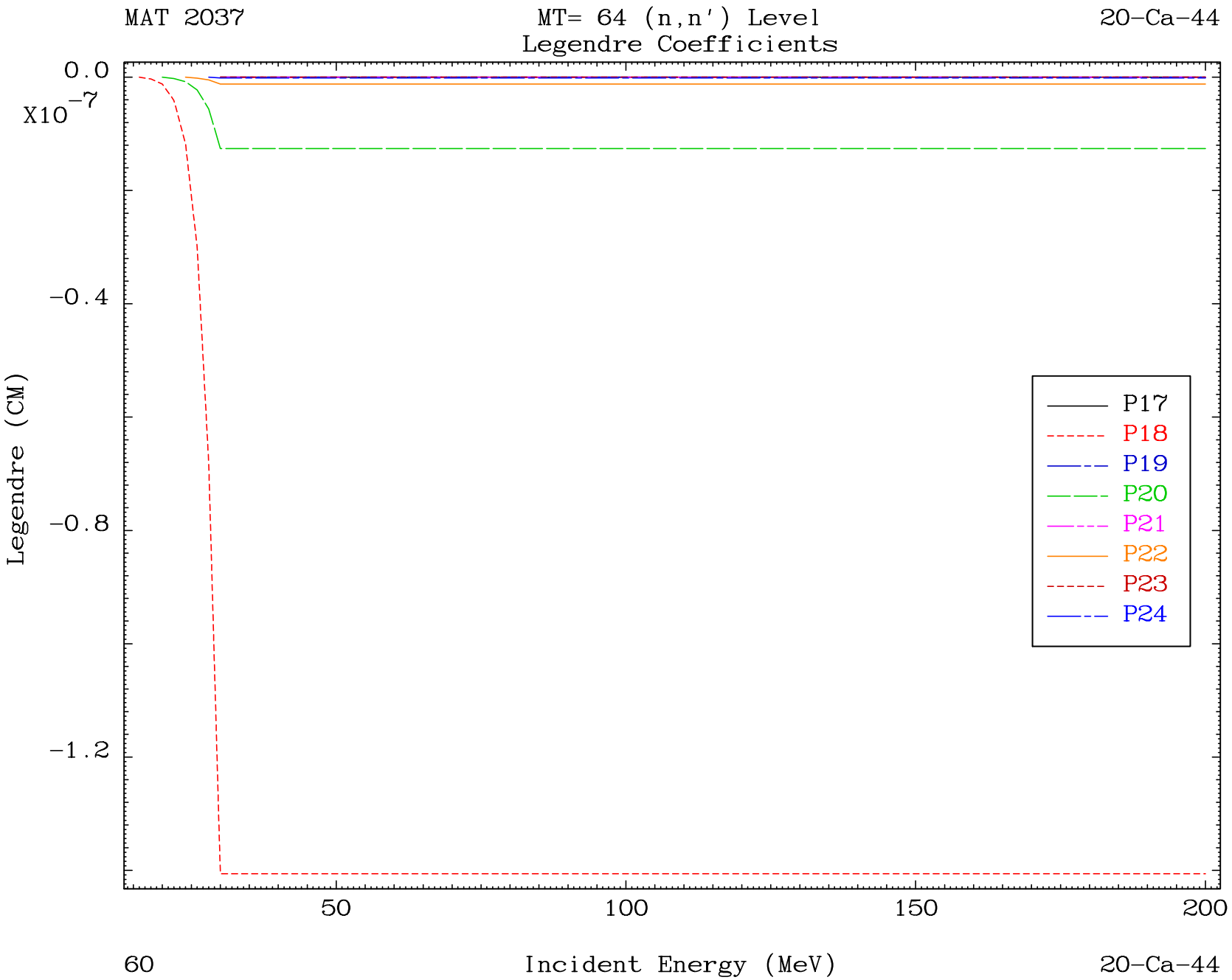

MAT 2037
MT= 63 (n,n') Level
Legendre Coefficients
20-Ca-44
Legendre (CM)
0.3
0.2
0.1
0.0
50
100
150
200
55
Incident Energy (MeV)
20-Ca-44
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10

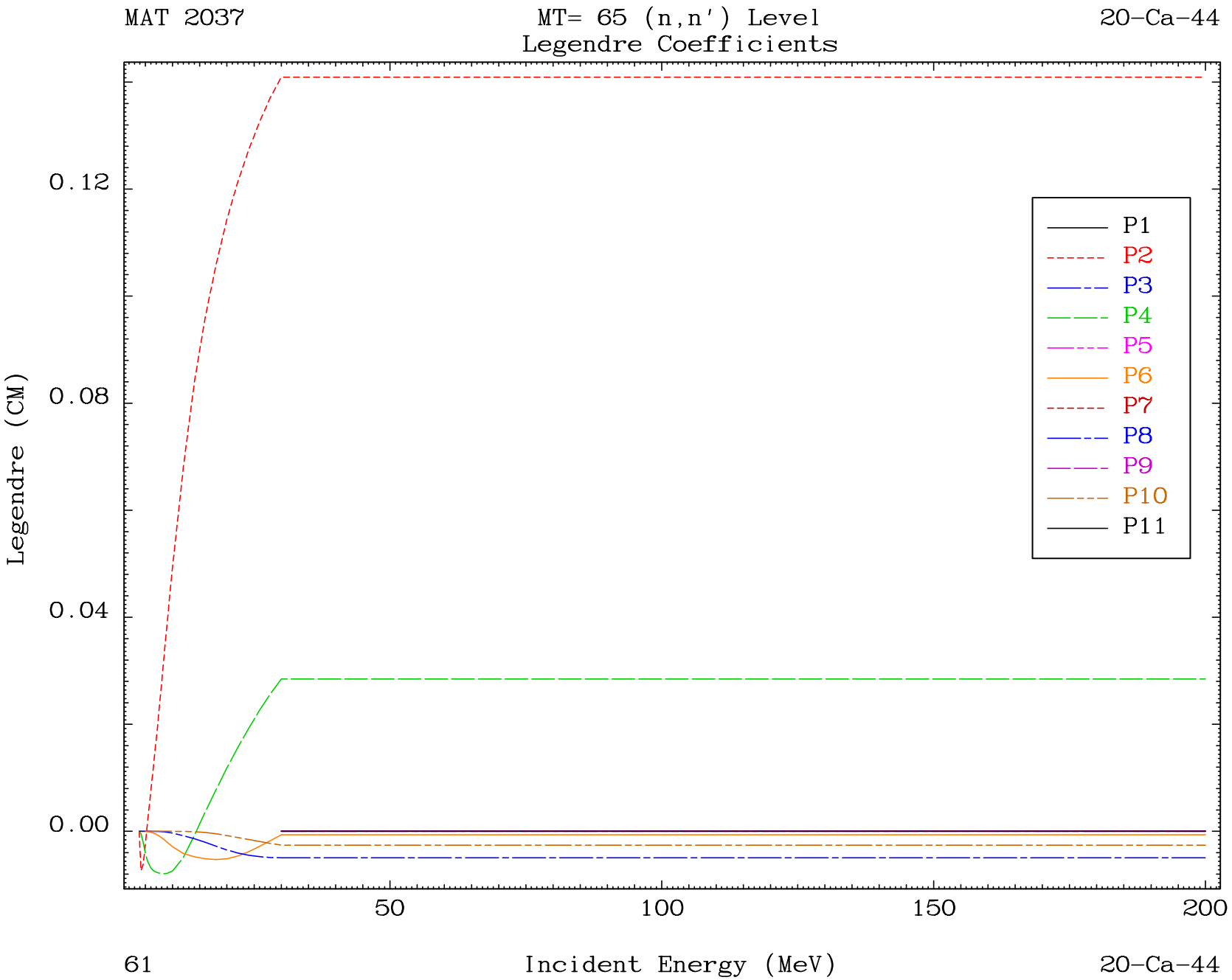

MAT 2037
MT= 63 (n,n') Level
Legendre Coefficients
20-Ca-44
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.02
0.01
0.00
-0.01
-0.02
Legendre (CM)
50
100
150
200
56
Incident Energy (MeV)
20-Ca-44

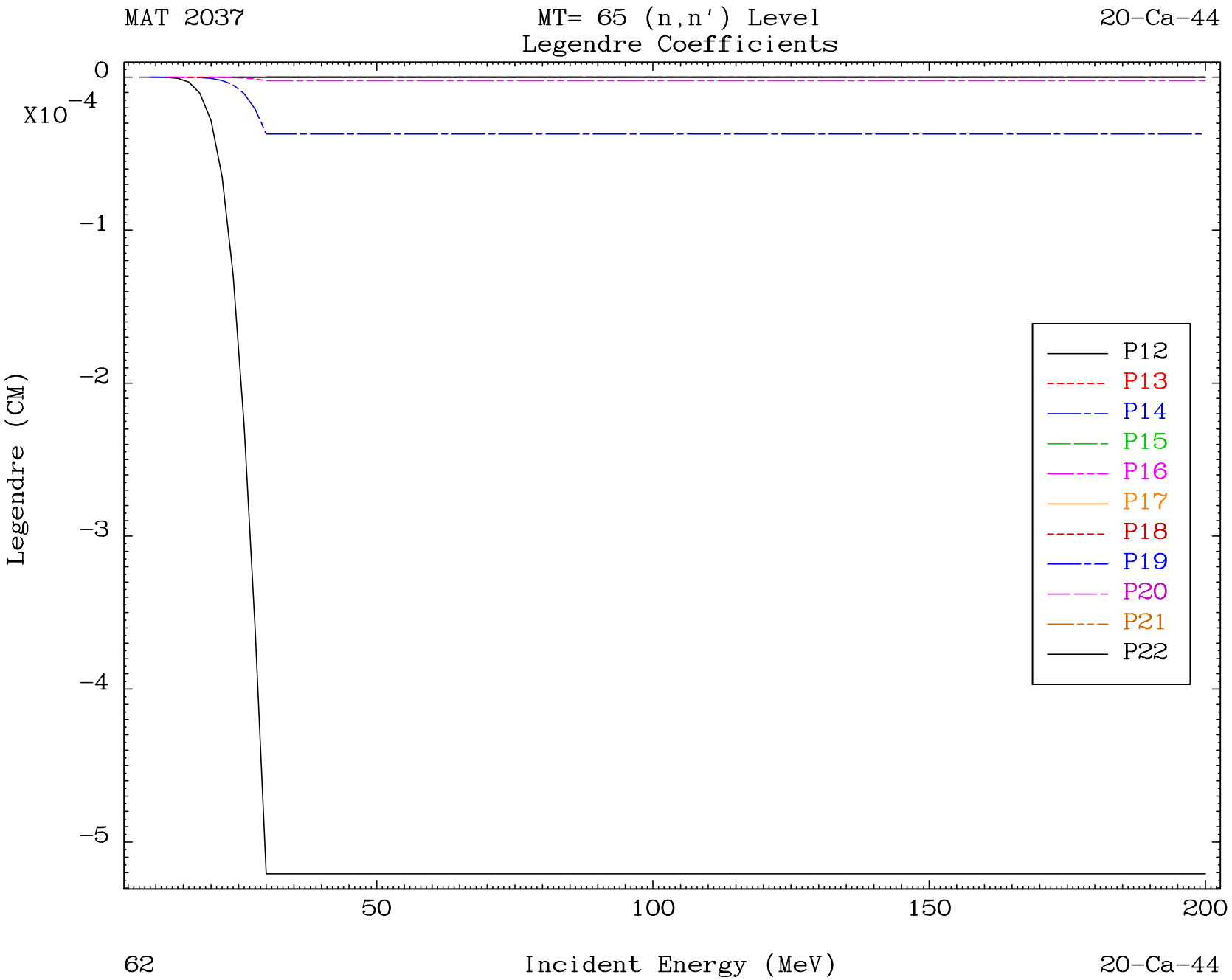

MAT 2037
MT= 63 (n,n') Level
Legendre Coefficients
20-Ca-44
0
X10^-5
-1
-2
-3
Legendre (CM)
50
100
150
200
57
Incident Energy (MeV)
20-Ca-44
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30

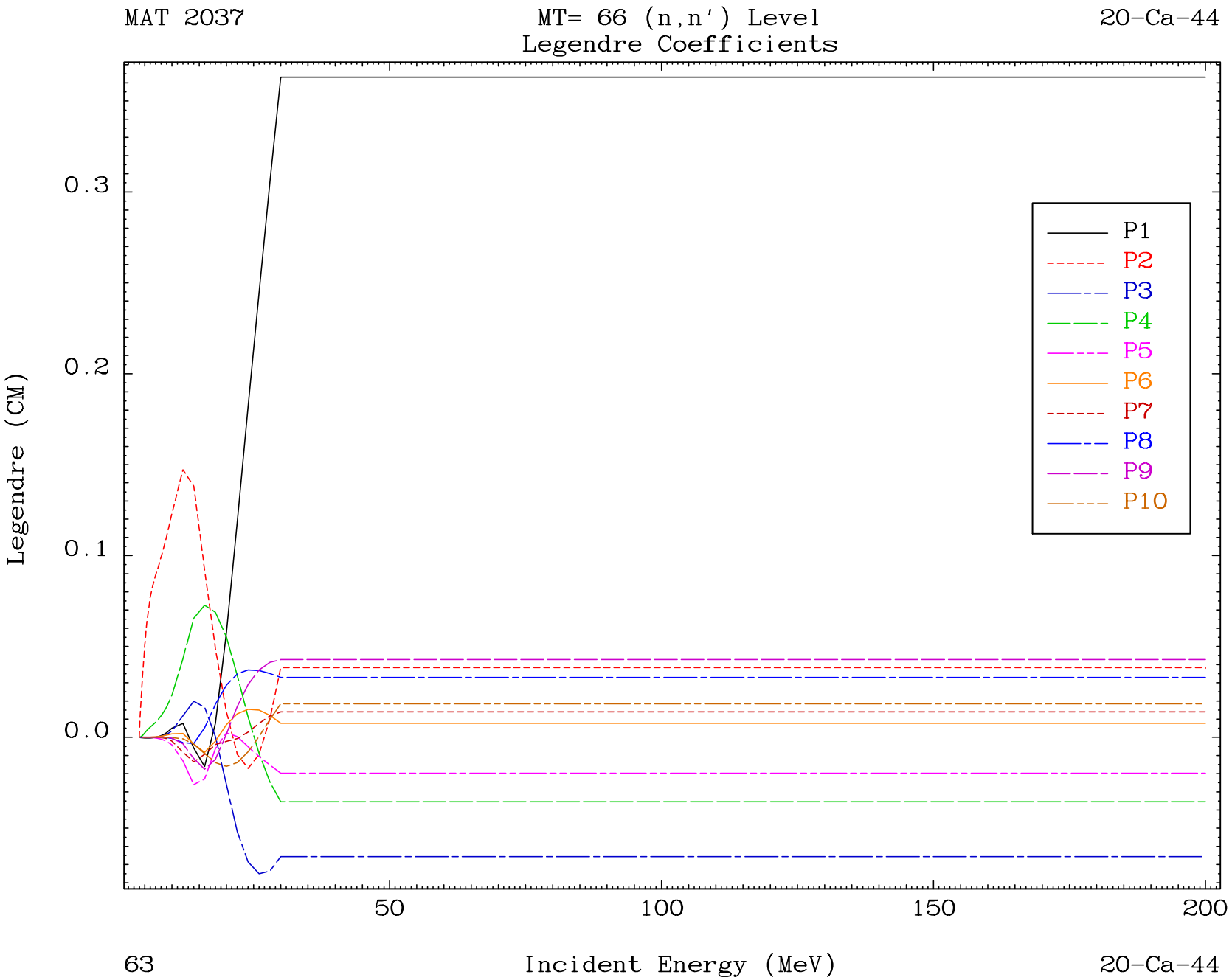

MAT 2037
MT= 64 (n,n') Level
Legendre Coefficients
20-Ca-44
0.04
0.02
0.00
-0.02
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
50
100
150
200
58
Incident Energy (MeV)
20-Ca-44

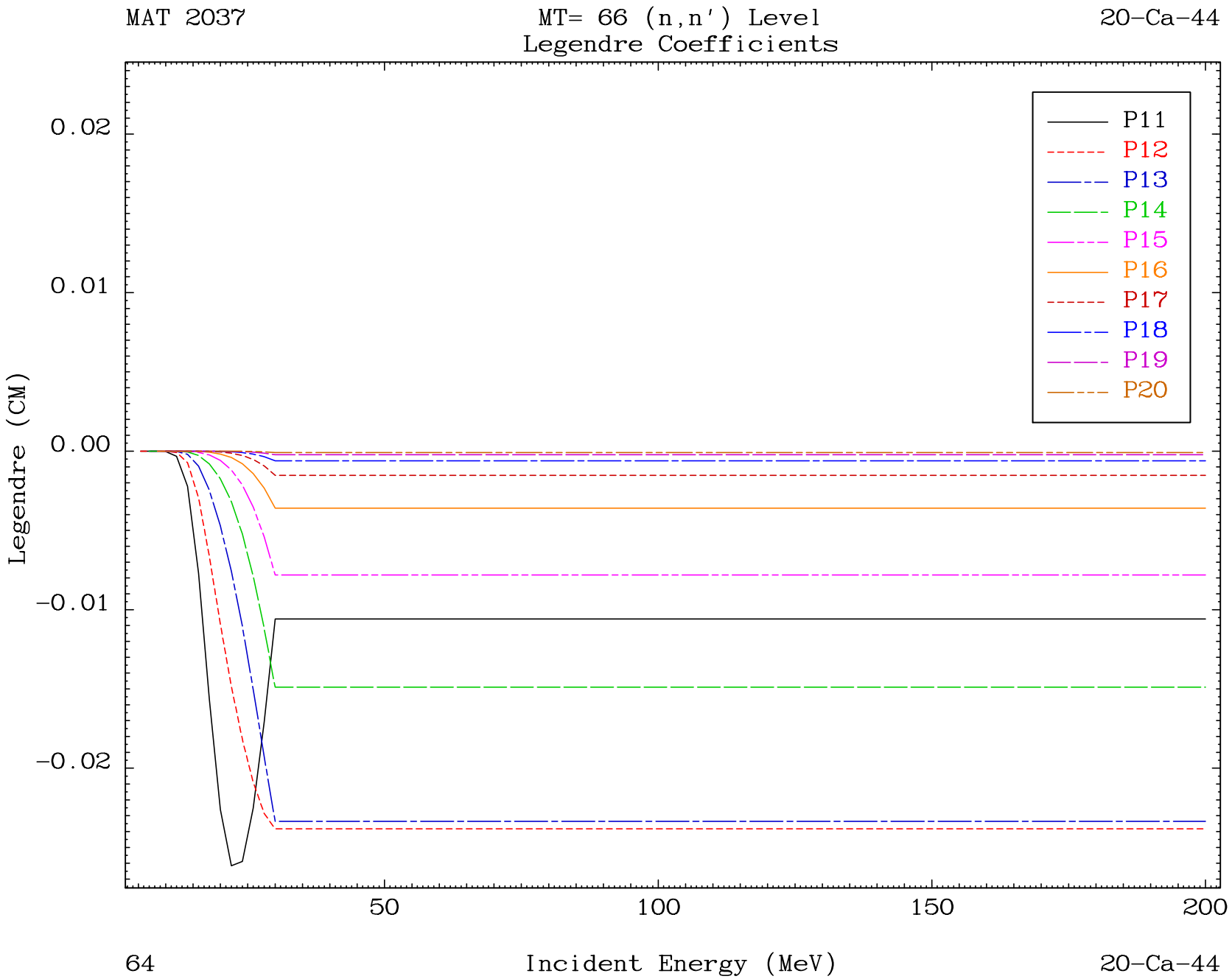

MAT 2037
MT= 64 (n,n') Level
Legendre Coefficients
20-Ca-44
X10^-4
4
3
2
1
0
-1
Legendre (CM)
P9
P10
P11
P12
P13
P14
P15
P16
50
100
150
200
59
Incident Energy (MeV)
20-Ca-44

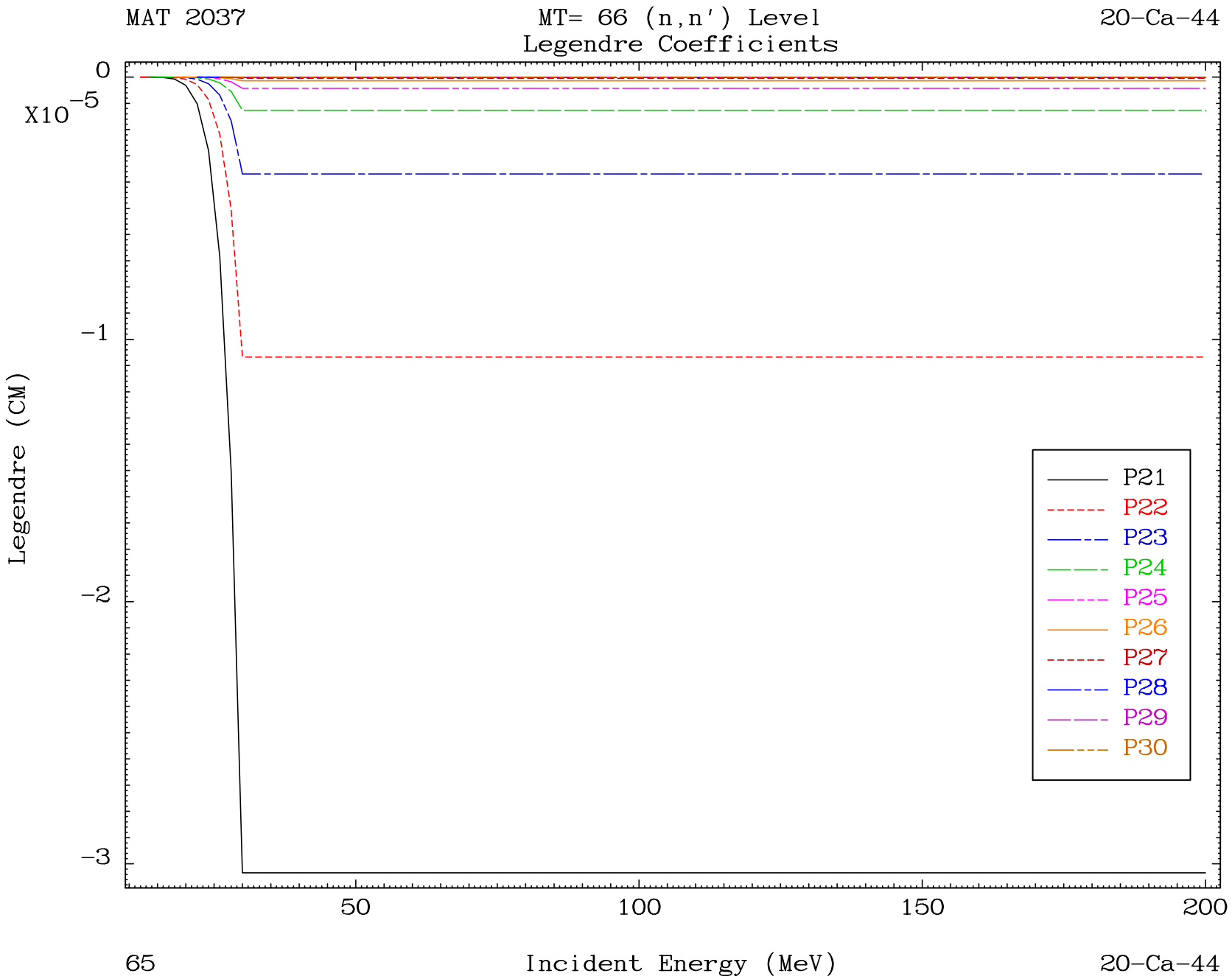

MAT 2037
MT= 64 (n,n') Level
Legendre Coefficients
20-Ca-44
0.0
X10^-7
-0.4
-0.8
-1.2
Legendre (CM)
P17
P18
P19
P20
P21
P22
P23
P24
50
100
150
200
60
Incident Energy (MeV)
20-Ca-44

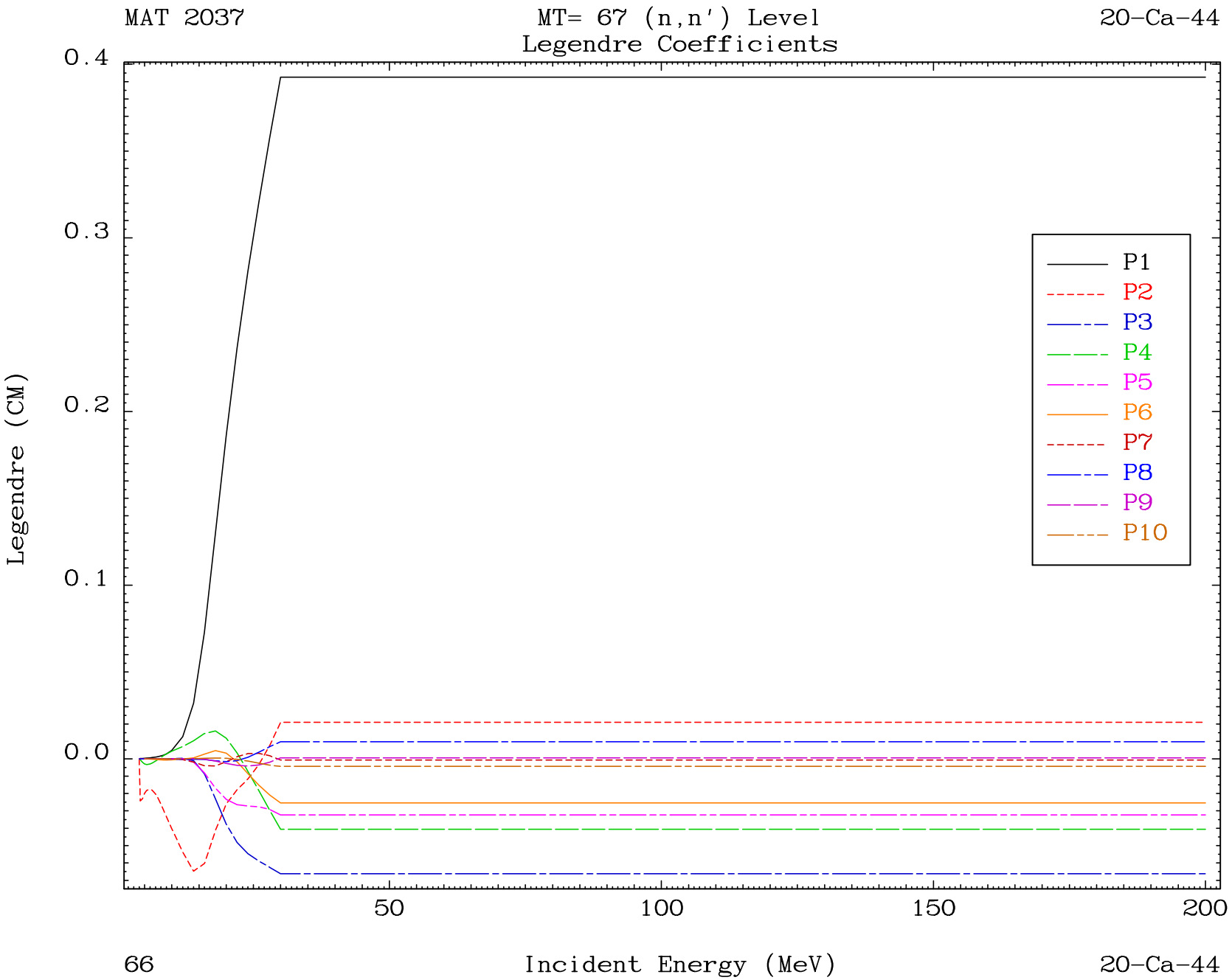

MAT 2037
MT= 65 (n,n') Level
Legendre Coefficients
20-Ca-44
0.12
0.08
0.04
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11
50
100
150
200
61
Incident Energy (MeV)
20-Ca-44

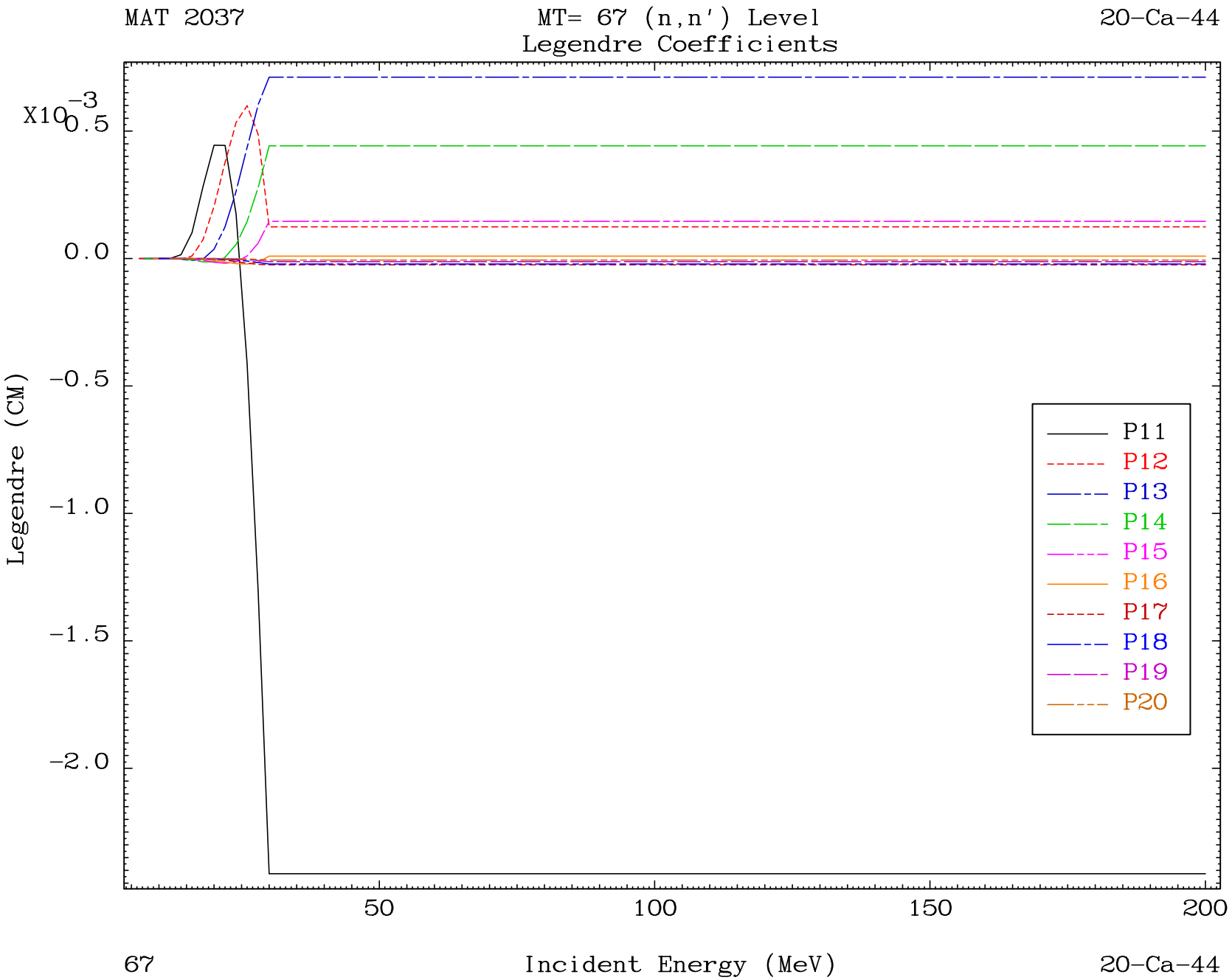

MAT 2037
MT= 65 (n,n') Level
Legendre Coefficients
20-Ca-44
0
X10^-4
-1
-2
-3
-4
-5
Legendre (CM)
50
100
150
200
62
Incident Energy (MeV)
20-Ca-44
P12
P13
P14
P15
P16
P17
P18
P19
P20
P21
P22

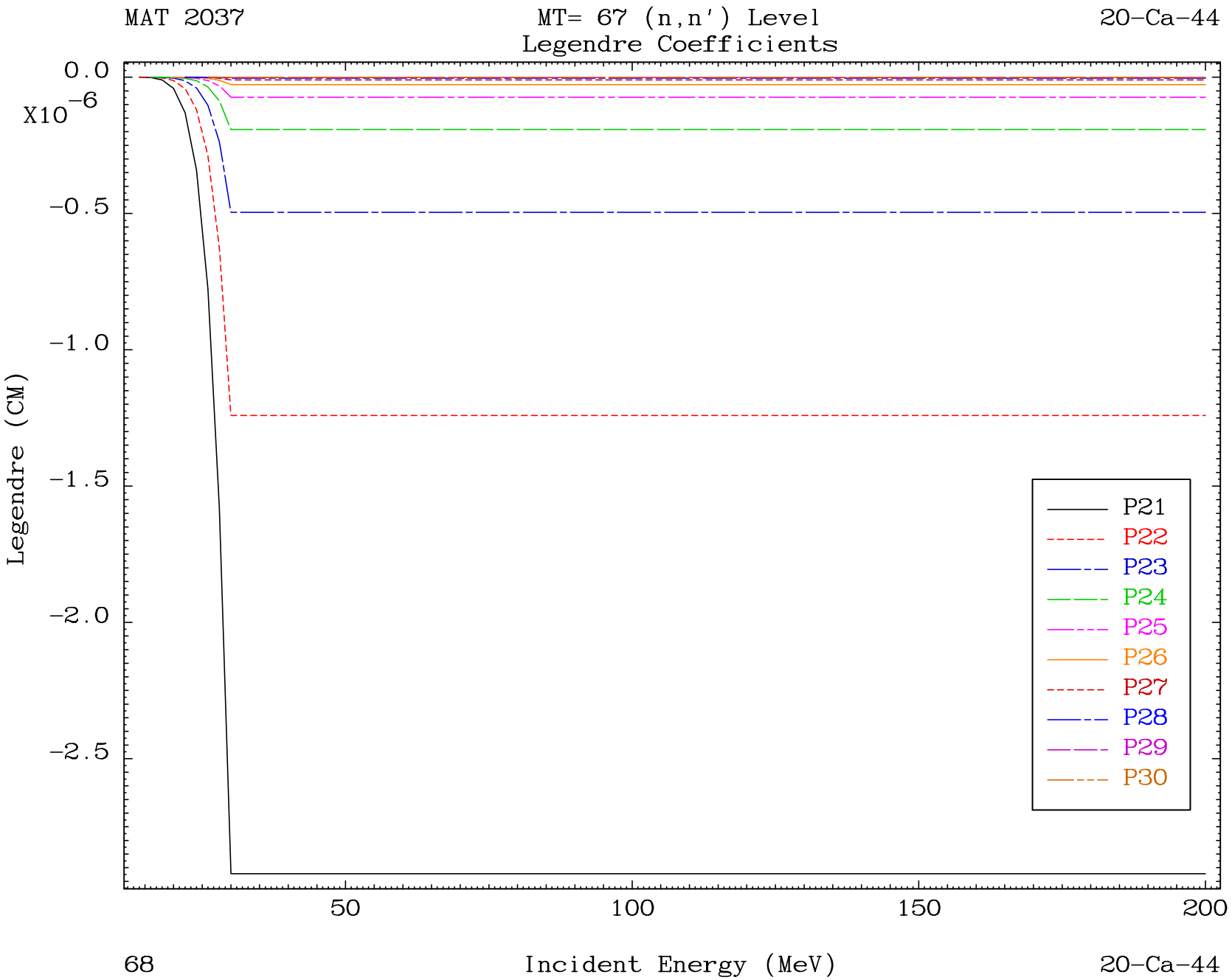

MAT 2037
MT= 66 (n,n') Level
Legendre Coefficients
20-Ca-44
Legendre (CM)
0.3
0.2
0.1
0.0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
63
Incident Energy (MeV)
20-Ca-44

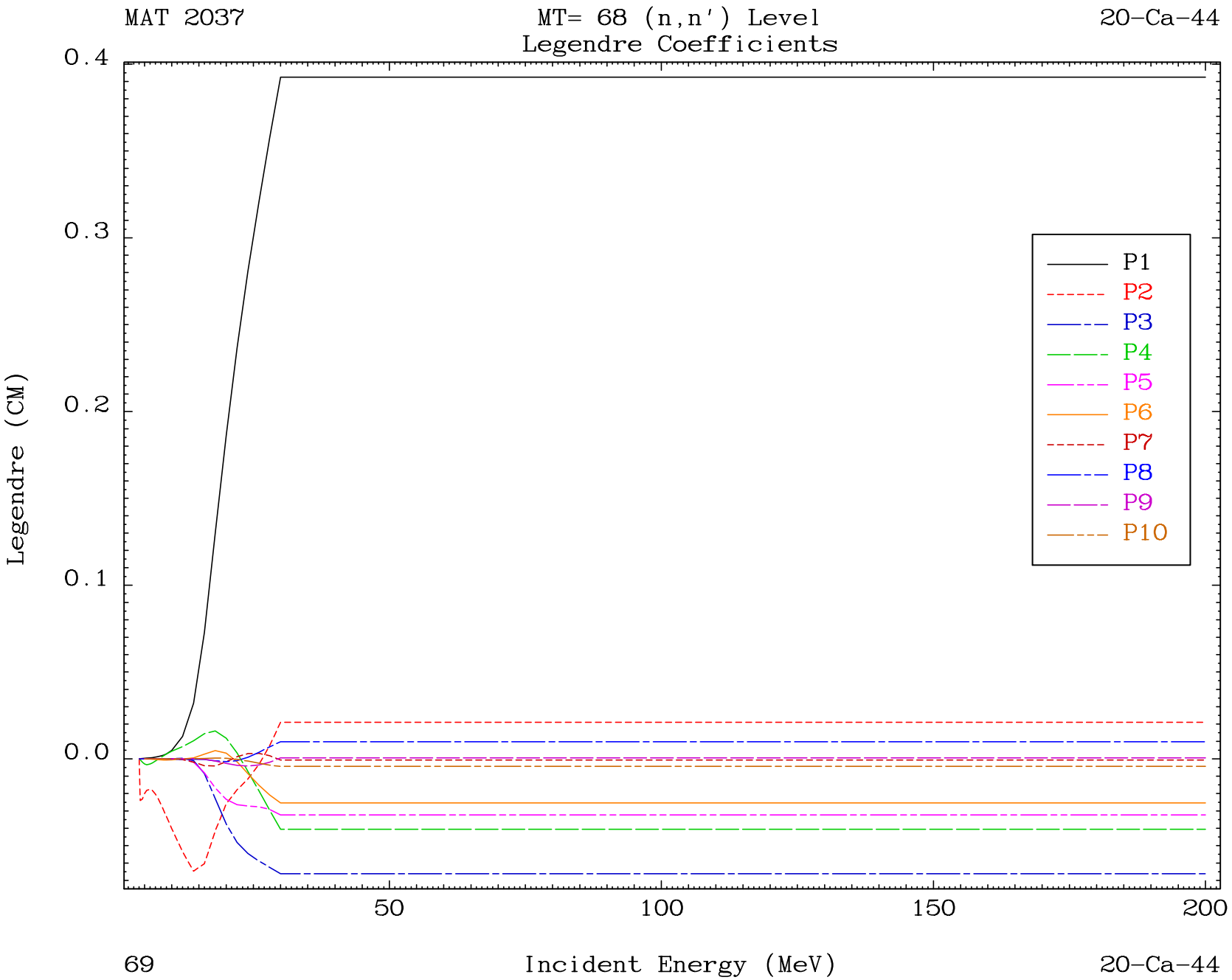

MAT 2037
MT= 66 (n,n') Level
Legendre Coefficients
20-Ca-44
0.02
0.01
0.00
-0.01
-0.02
Legendre (CM)
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
50
100
150
200
64
Incident Energy (MeV)
20-Ca-44

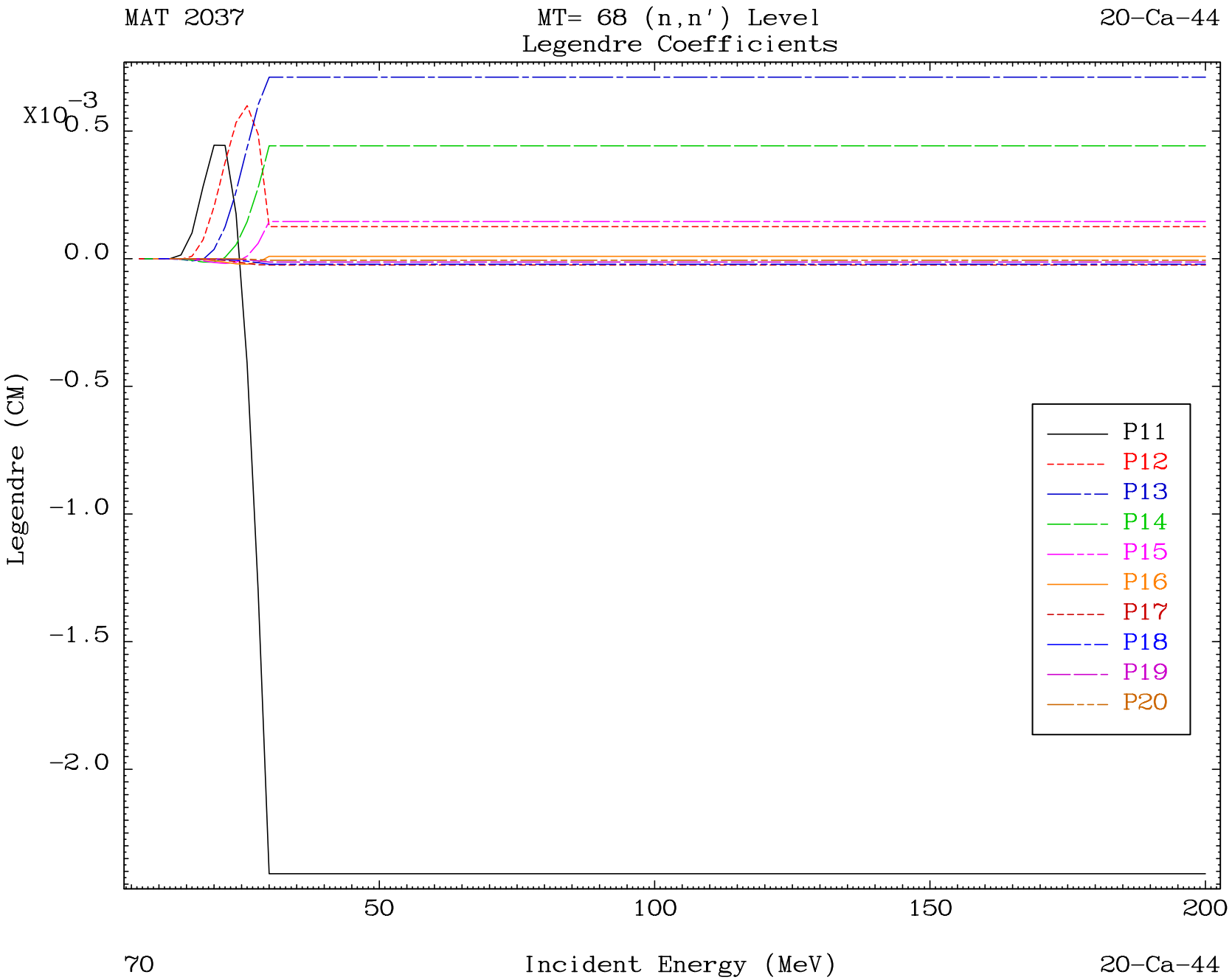

MAT 2037
MT= 66 (n,n') Level
Legendre Coefficients
20-Ca-44
0
X10^-5
-1
-2
-3
Legendre (CM)
50
100
150
200
65
Incident Energy (MeV)
20-Ca-44
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30

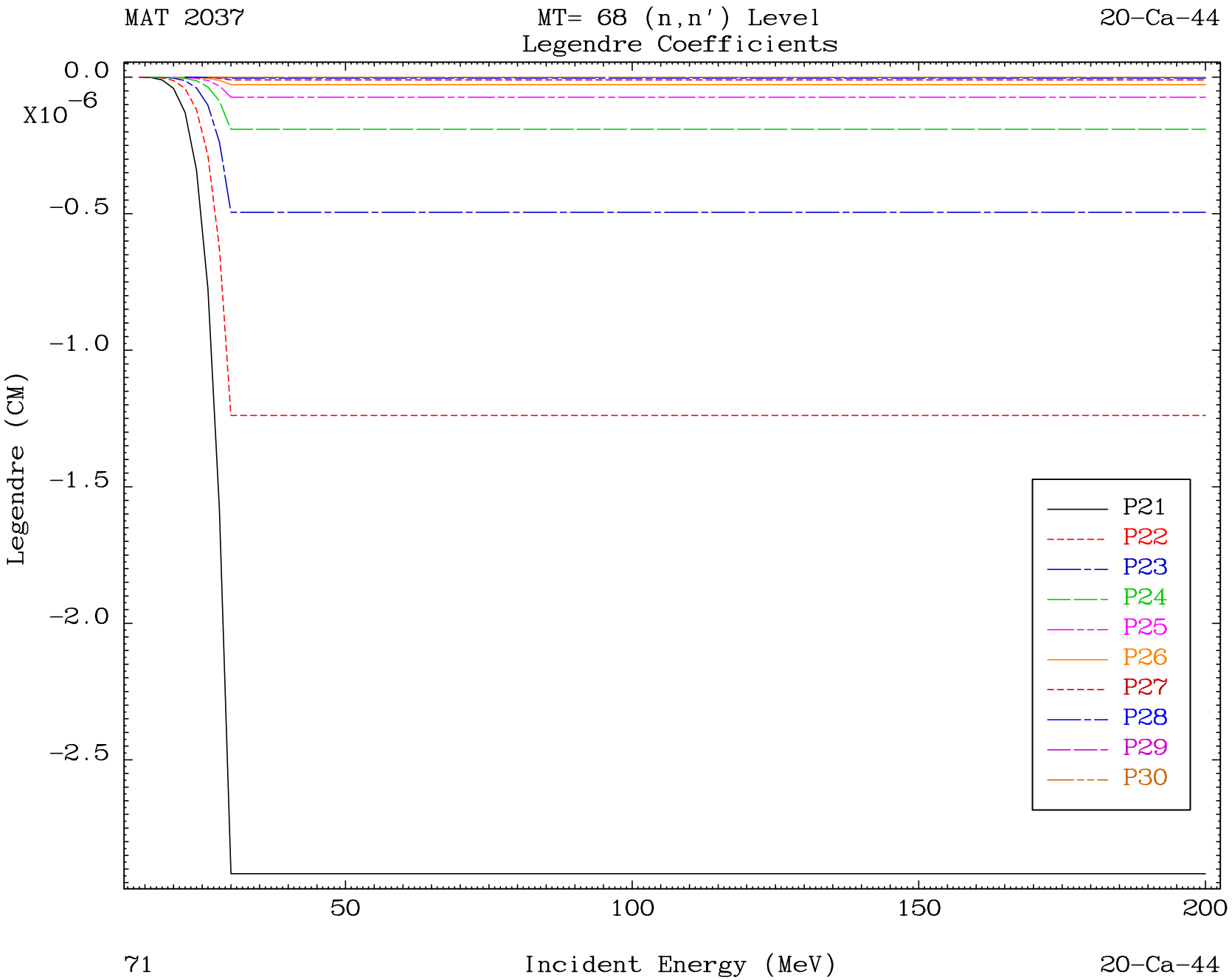

MAT 2037
MT= 67 (n,n') Level
Legendre Coefficients
20-Ca-44
0.4
0.3
0.2
0.1
0.0
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
50
100
150
200
66
Incident Energy (MeV)
20-Ca-44

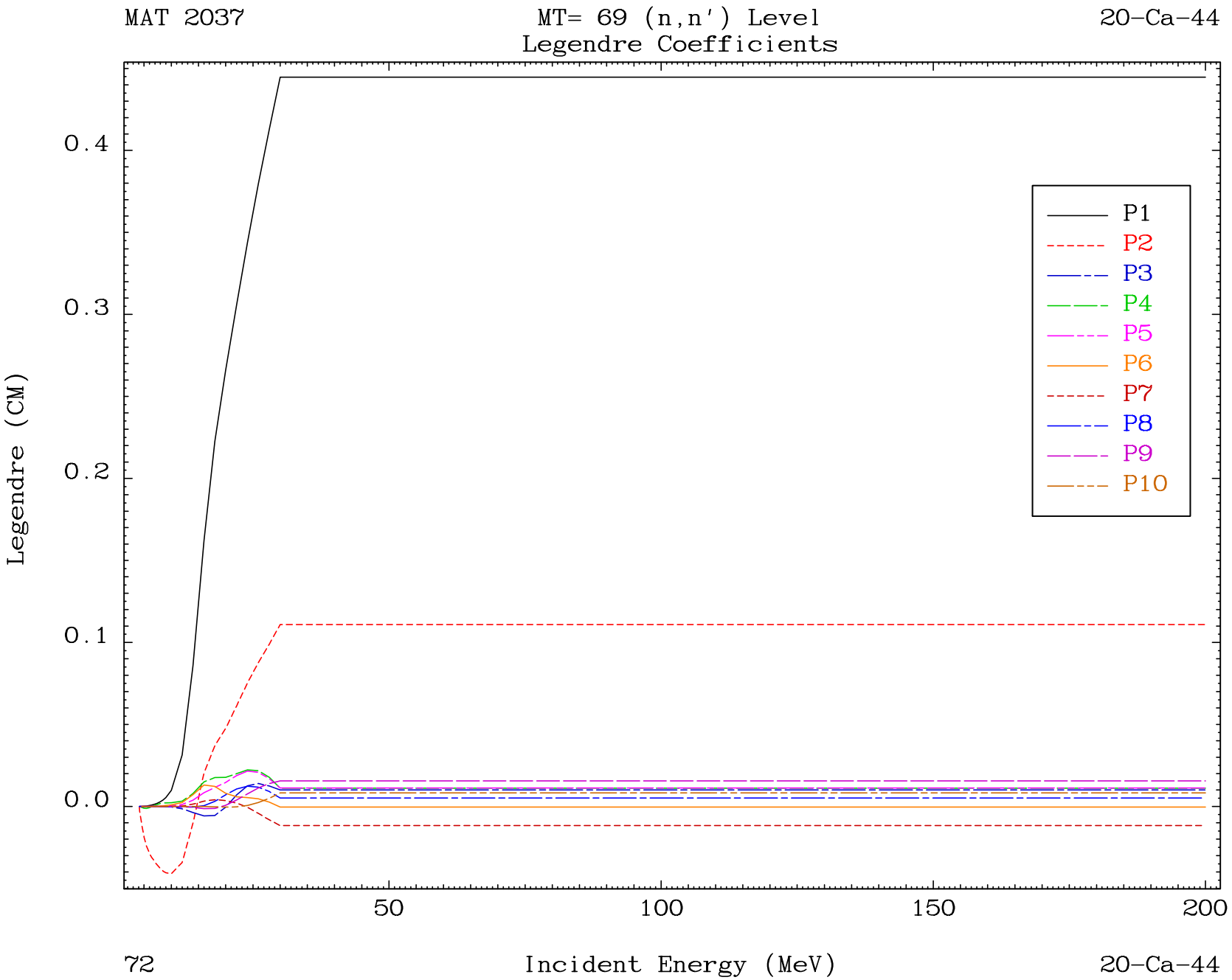

MAT 2037
MT= 67 (n,n') Level
Legendre Coefficients
20-Ca-44
X10-3
0.5
0.0
-0.5
-1.0
-1.5
-2.0
Legendre (CM)
50
100
150
200
67
Incident Energy (MeV)
20-Ca-44
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20

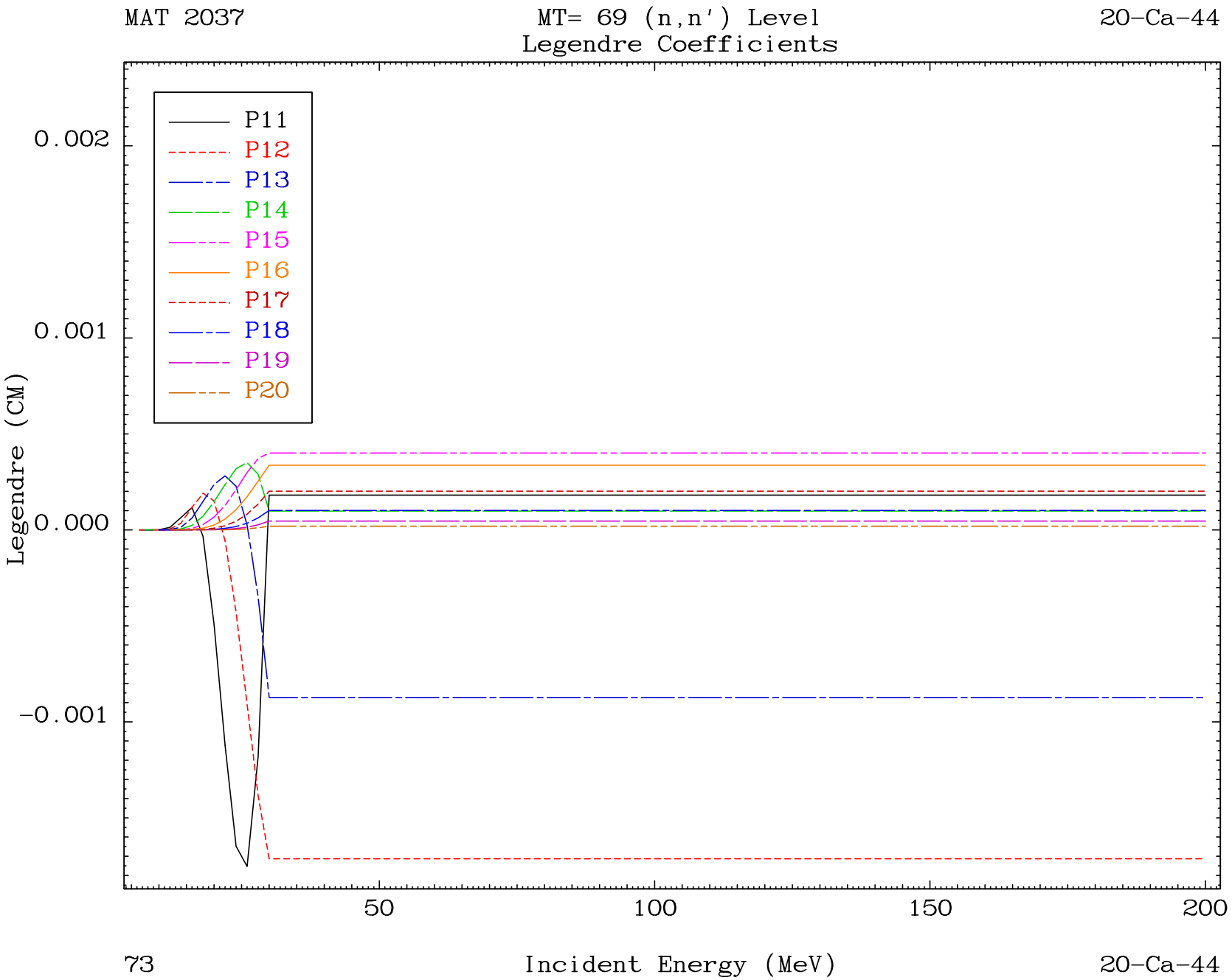

MAT 2037
MT= 67 (n,n') Level
Legendre Coefficients
20-Ca-44
0.0
X10^-6
-0.5
-1.0
-1.5
-2.0
-2.5
Legendre (CM)
50
100
150
200
68
Incident Energy (MeV)
20-Ca-44
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30

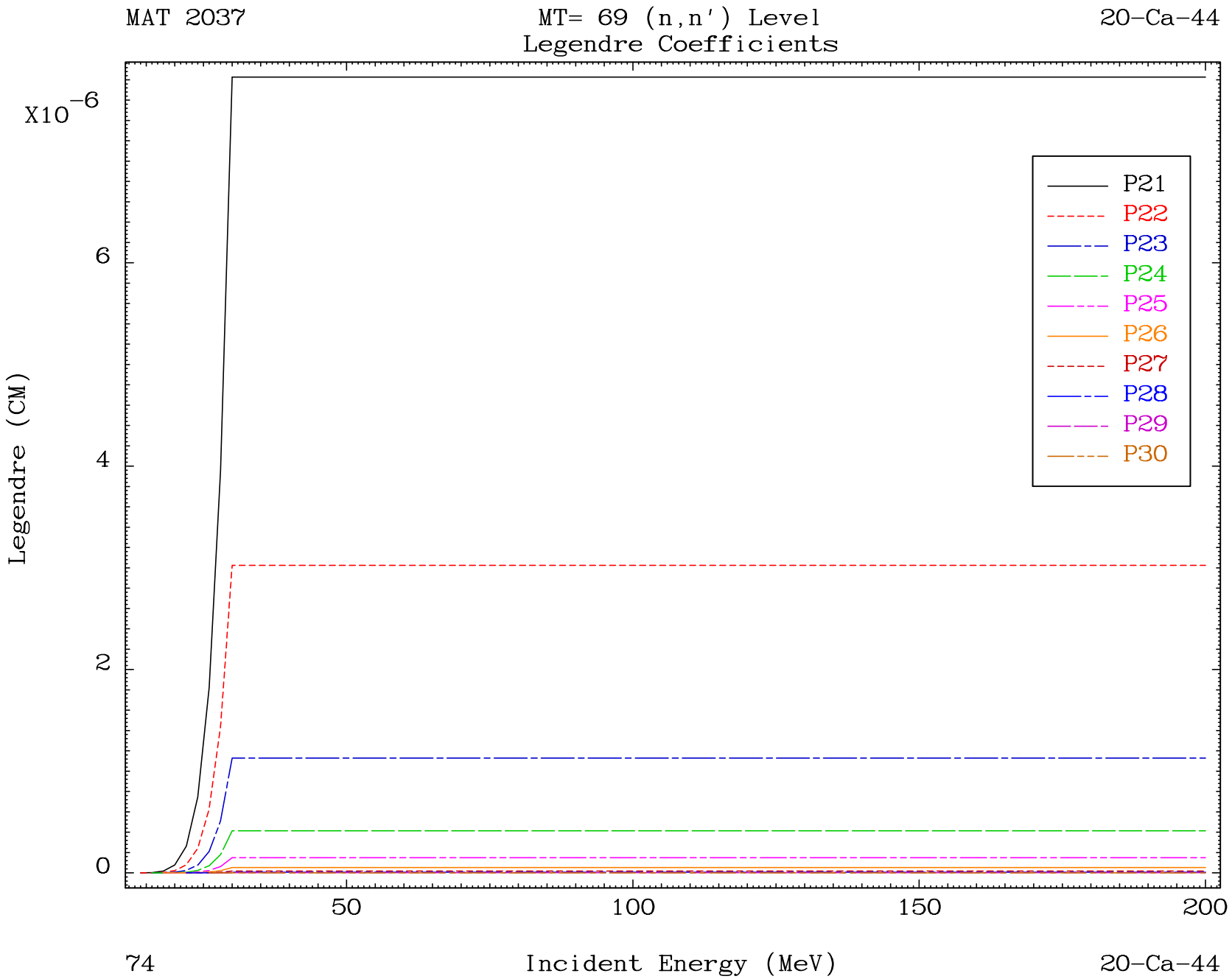

MAT 2037
MT= 68 (n,n') Level
Legendre Coefficients
20-Ca-44
0.4
0.3
0.2
0.1
0.0
Legendre (CM)
50
100
150
200
69
Incident Energy (MeV)
20-Ca-44
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10

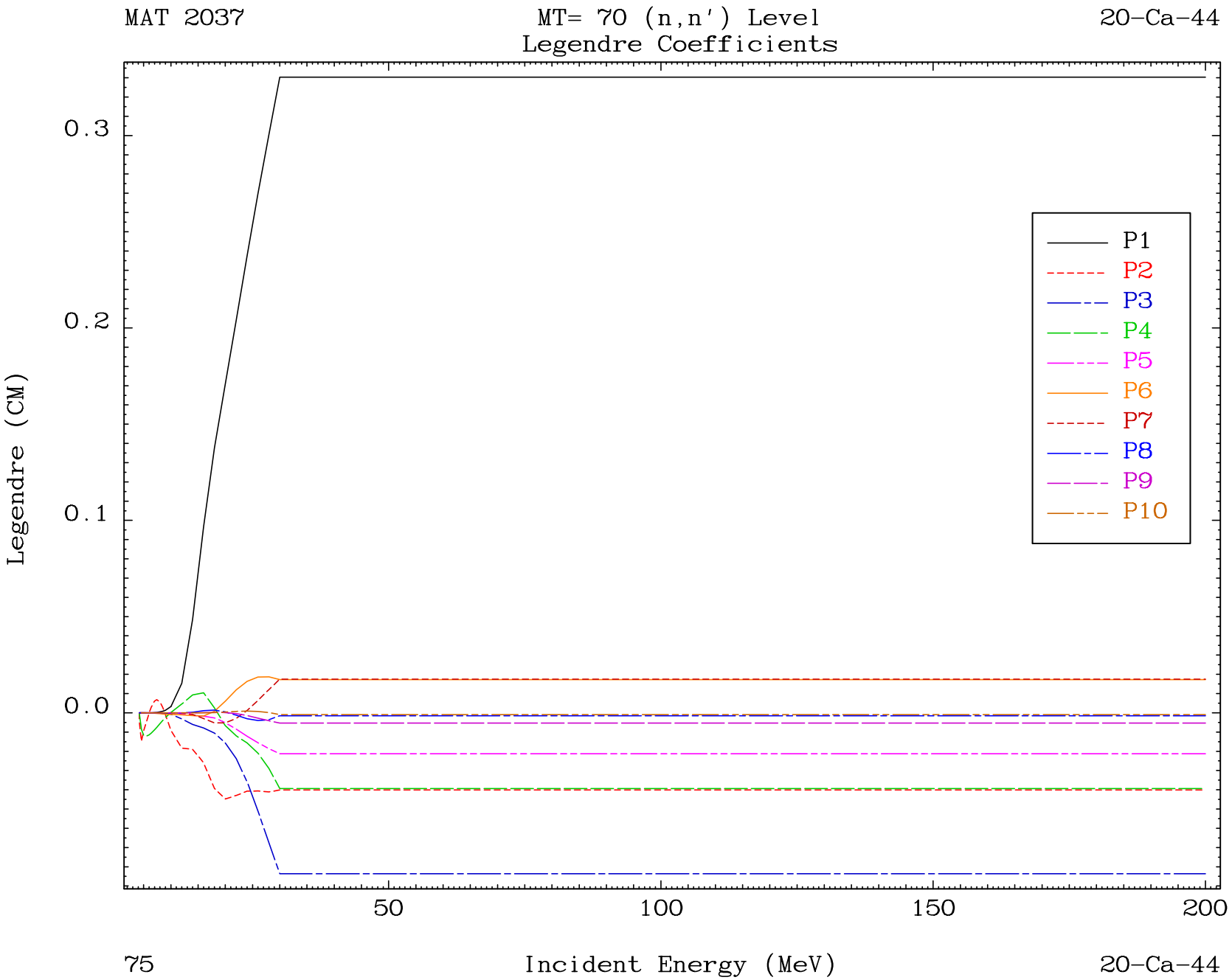

MAT 2037
MT= 68 (n,n') Level
Legendre Coefficients
20-Ca-44
X10-3
0.5
0.0
-0.5
-1.0
-1.5
-2.0
Legendre (CM)
50
100
150
200
70
Incident Energy (MeV)
20-Ca-44
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20

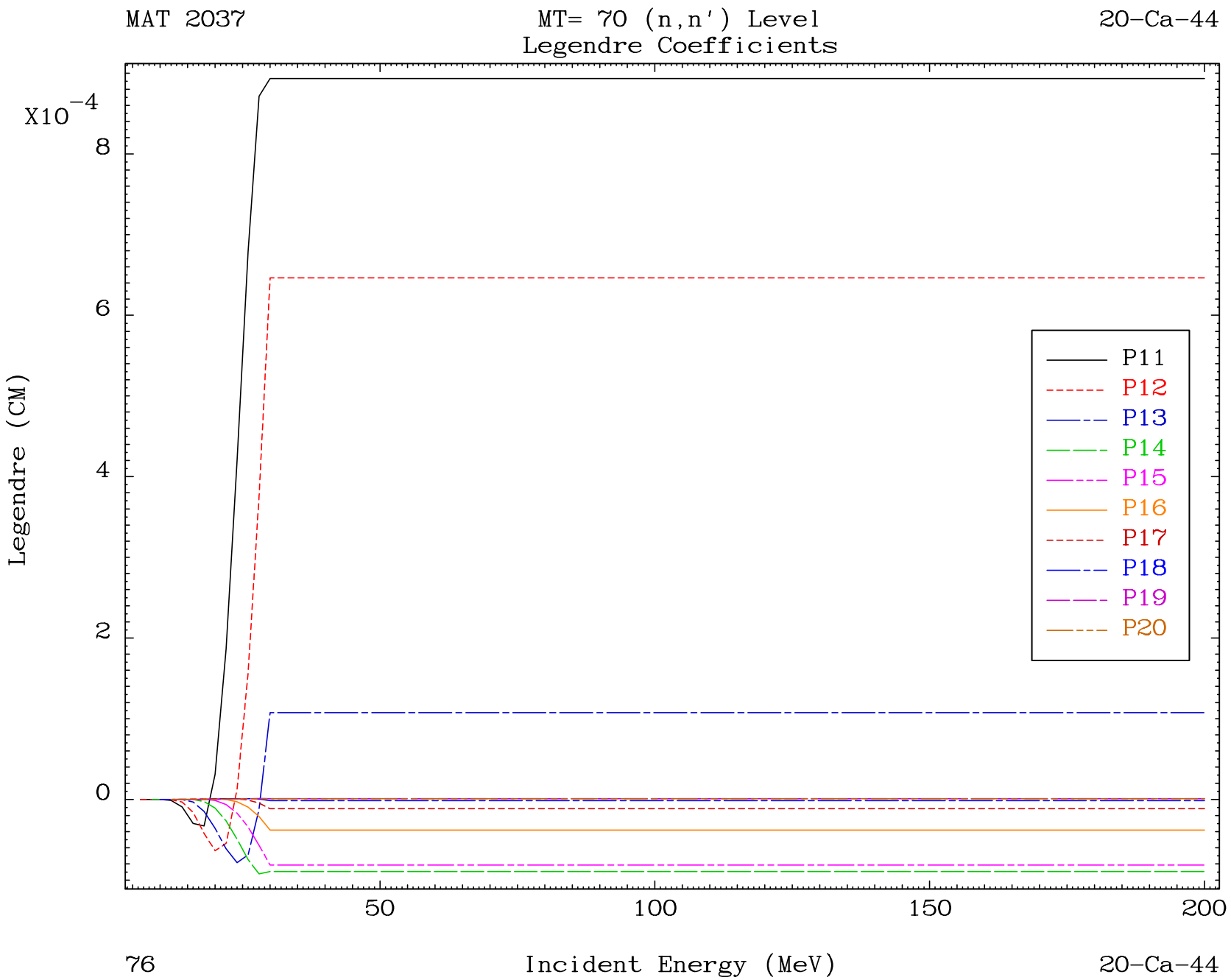

MAT 2037
MT= 68 (n,n') Level
Legendre Coefficients
20-Ca-44
0.0
X10^-6
-0.5
-1.0
-1.5
-2.0
-2.5
Legendre (CM)
50
100
150
200
71
Incident Energy (MeV)
20-Ca-44
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30

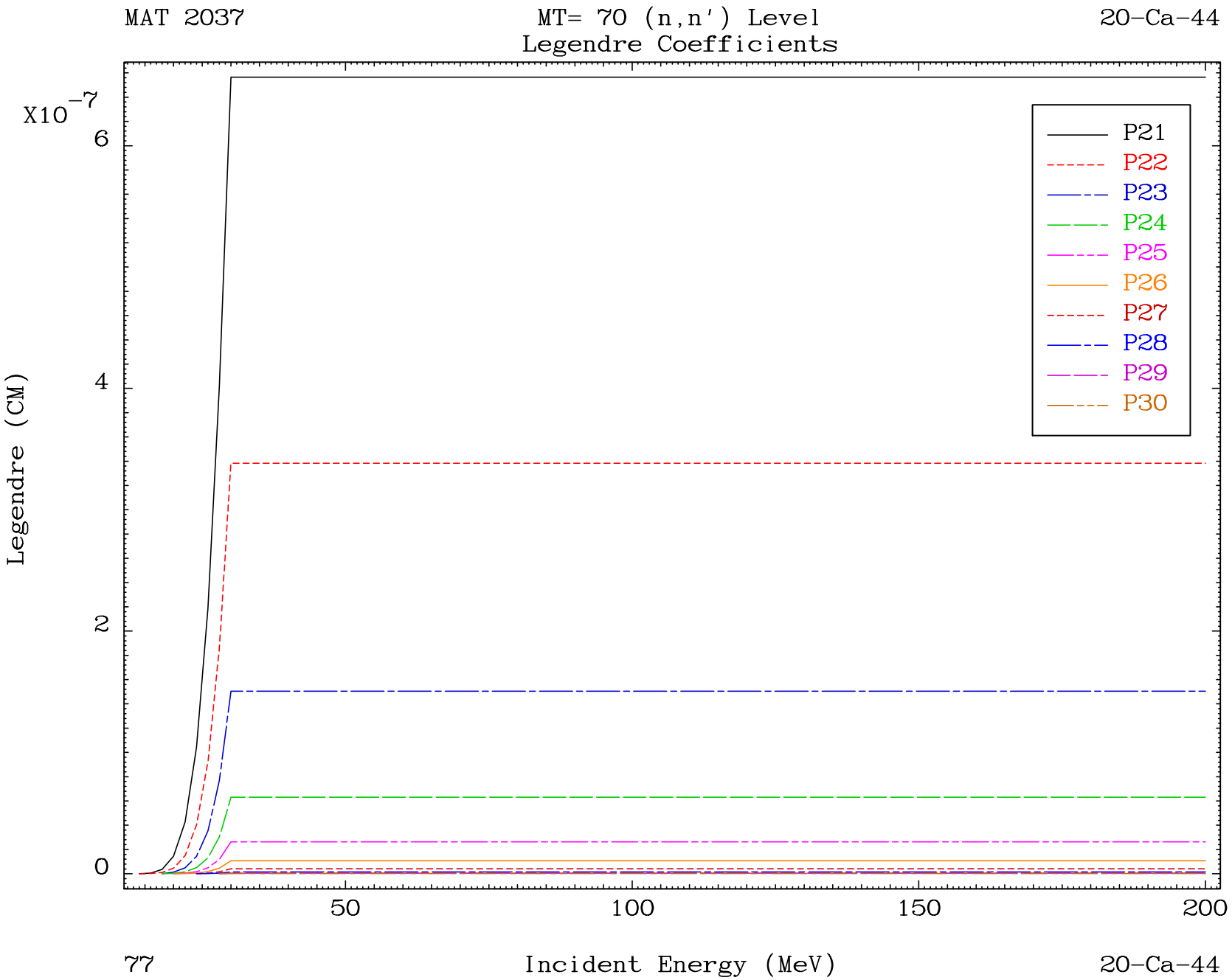

MAT 2037
MT= 69 (n,n') Level
Legendre Coefficients
20-Ca-44
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
72
Incident Energy (MeV)
20-Ca-44

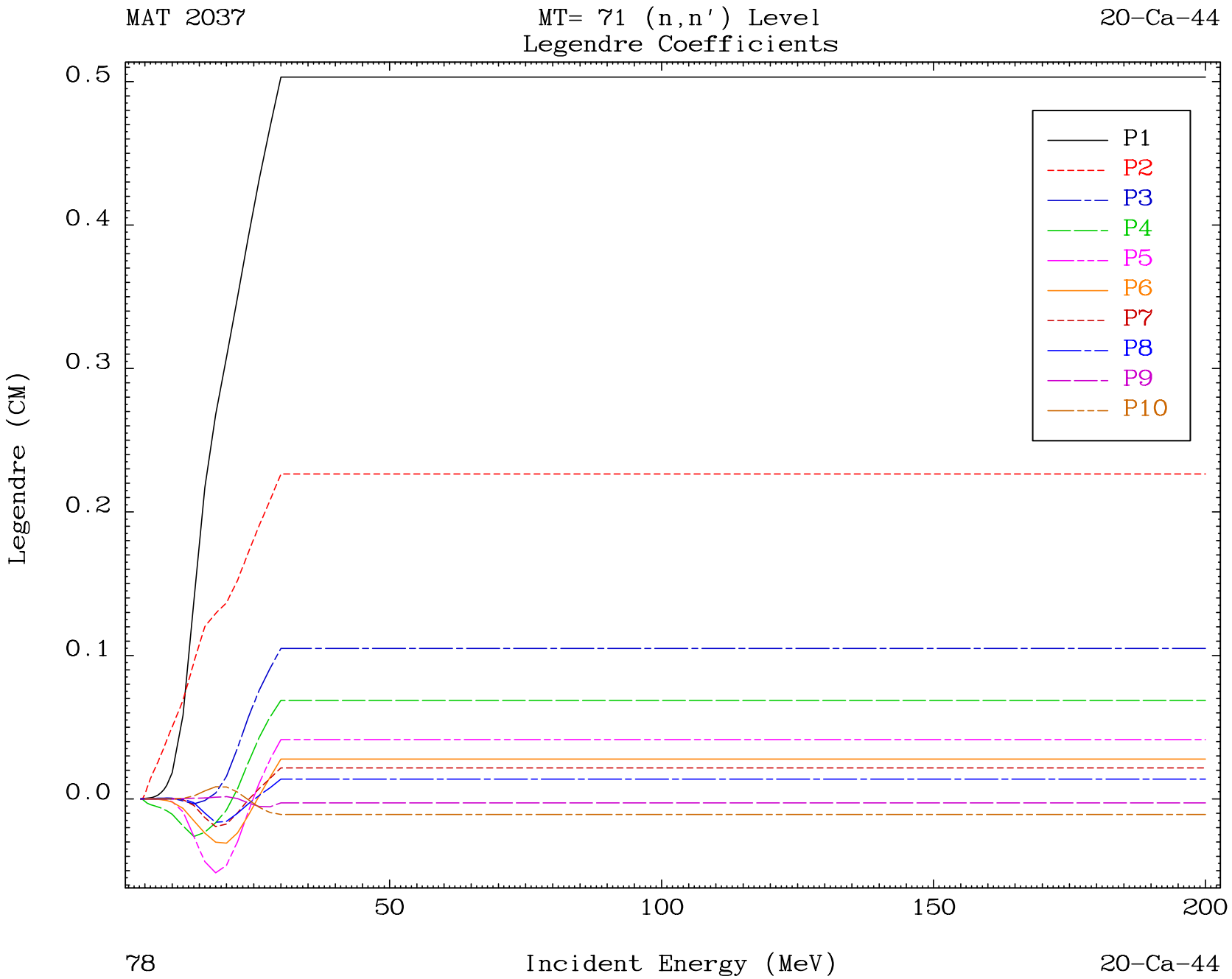

MAT 2037
MT= 69 (n,n') Level
Legendre Coefficients
20-Ca-44
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.002
0.001
0.000
-0.001
Legendre (CM)
50
100
150
200
73
Incident Energy (MeV)
20-Ca-44

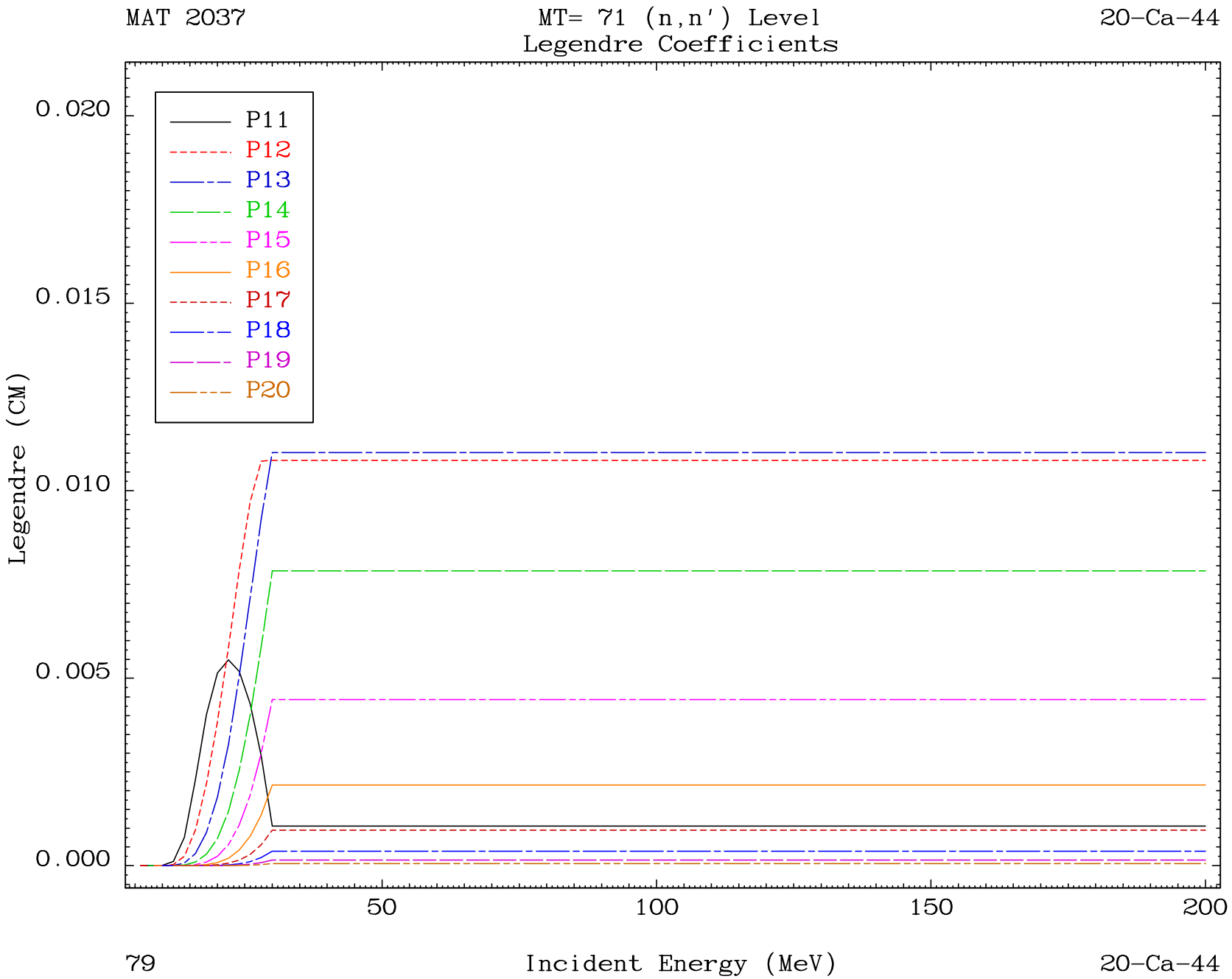

MAT 2037
MT= 69 (n,n') Level
Legendre Coefficients
20-Ca-44
X10^-6
6
4
2
0
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
50
100
150
200
74
Incident Energy (MeV)
20-Ca-44

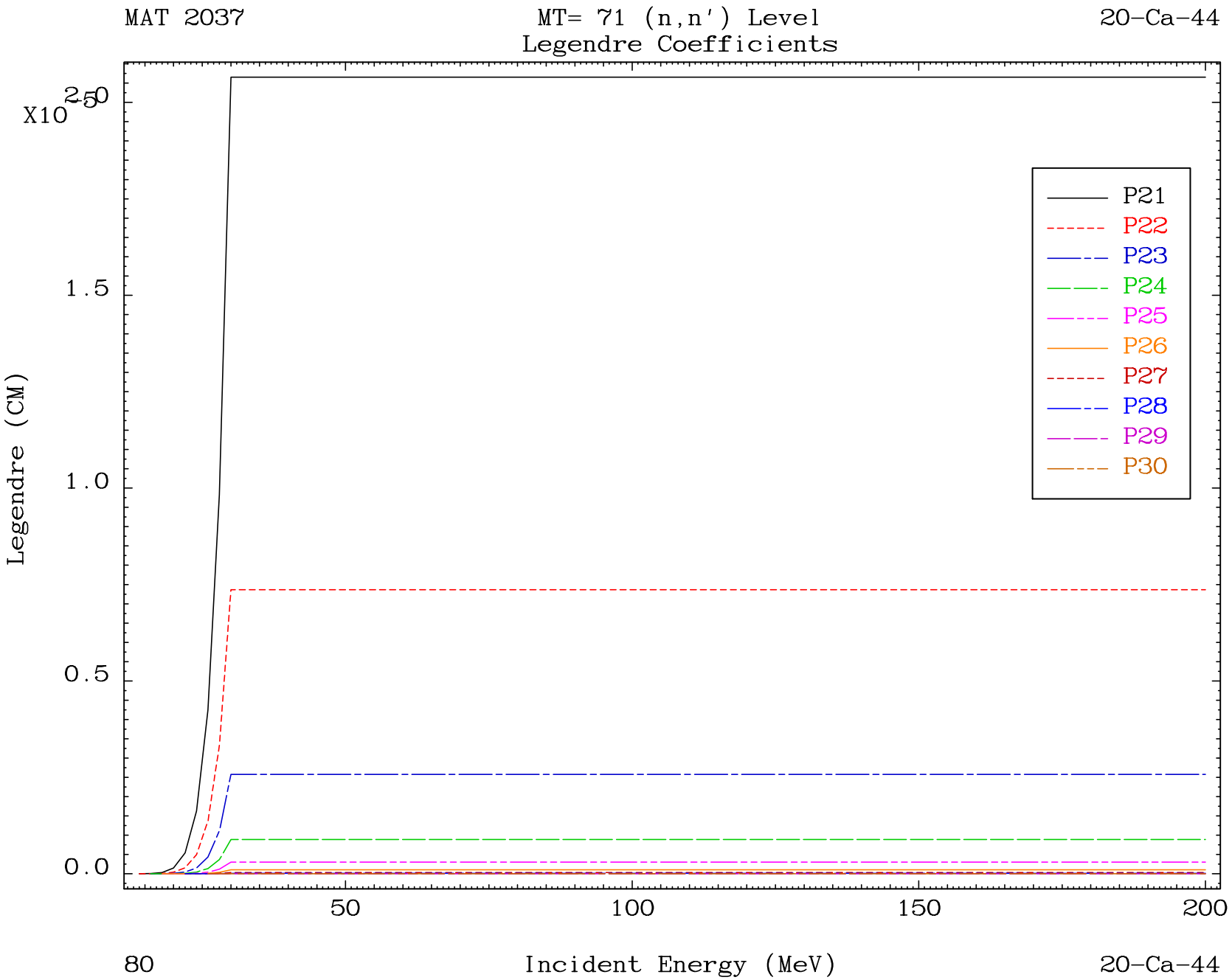

MAT 2037
MT= 70 (n,n') Level
Legendre Coefficients
20-Ca-44
0.3
0.2
0.1
0.0
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
50
100
150
200
75
Incident Energy (MeV)
20-Ca-44

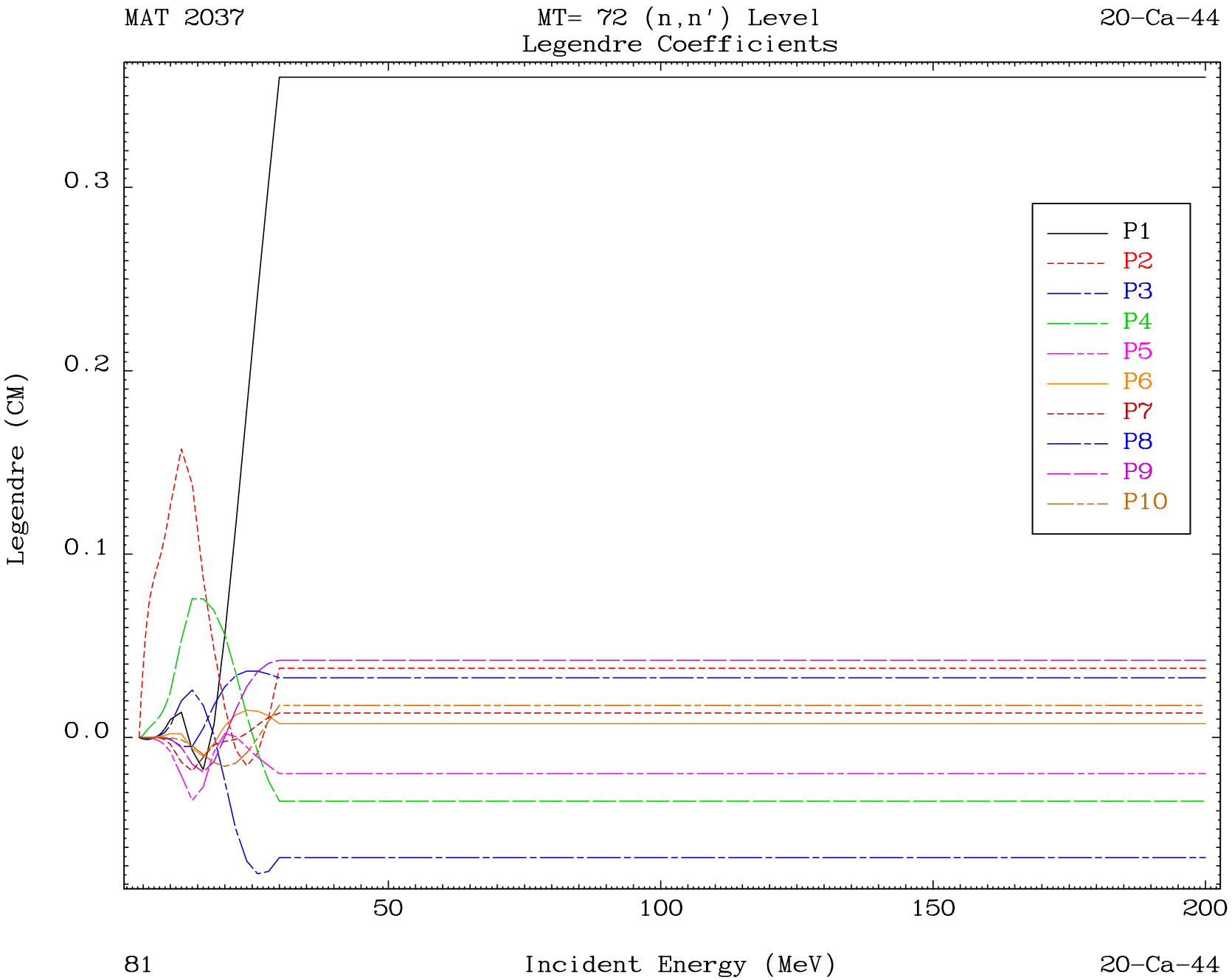

MAT 2037
MT= 70 (n,n') Level
Legendre Coefficients
20-Ca-44
X10^-4
8
6
4
2
0
Legendre (CM)
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
50
100
150
200
76
Incident Energy (MeV)
20-Ca-44

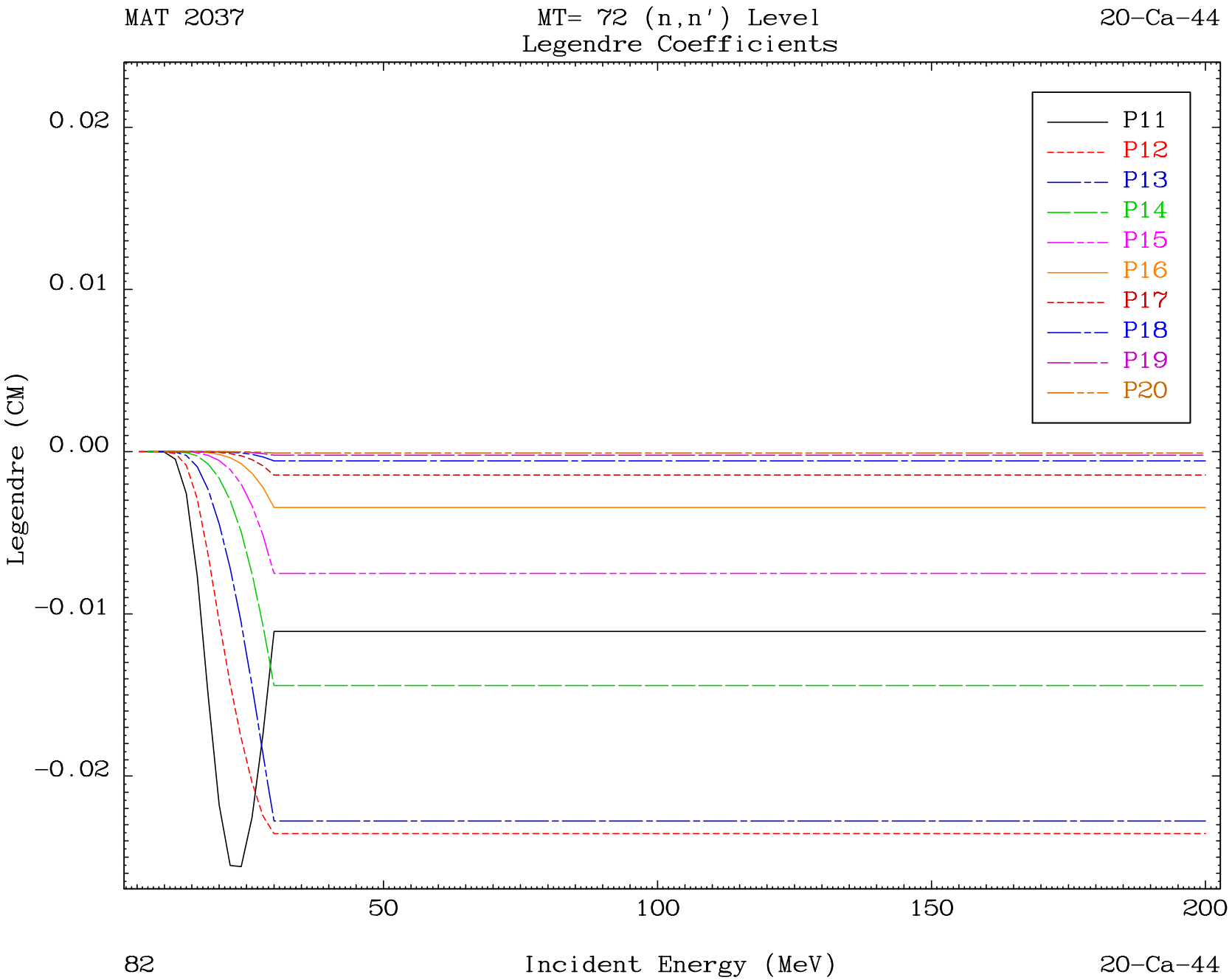

MAT 2037
MT= 70 (n,n') Level
Legendre Coefficients
20-Ca-44
X10-7
6
4
2
0
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
50
100
150
200
77
Incident Energy (MeV)
20-Ca-44

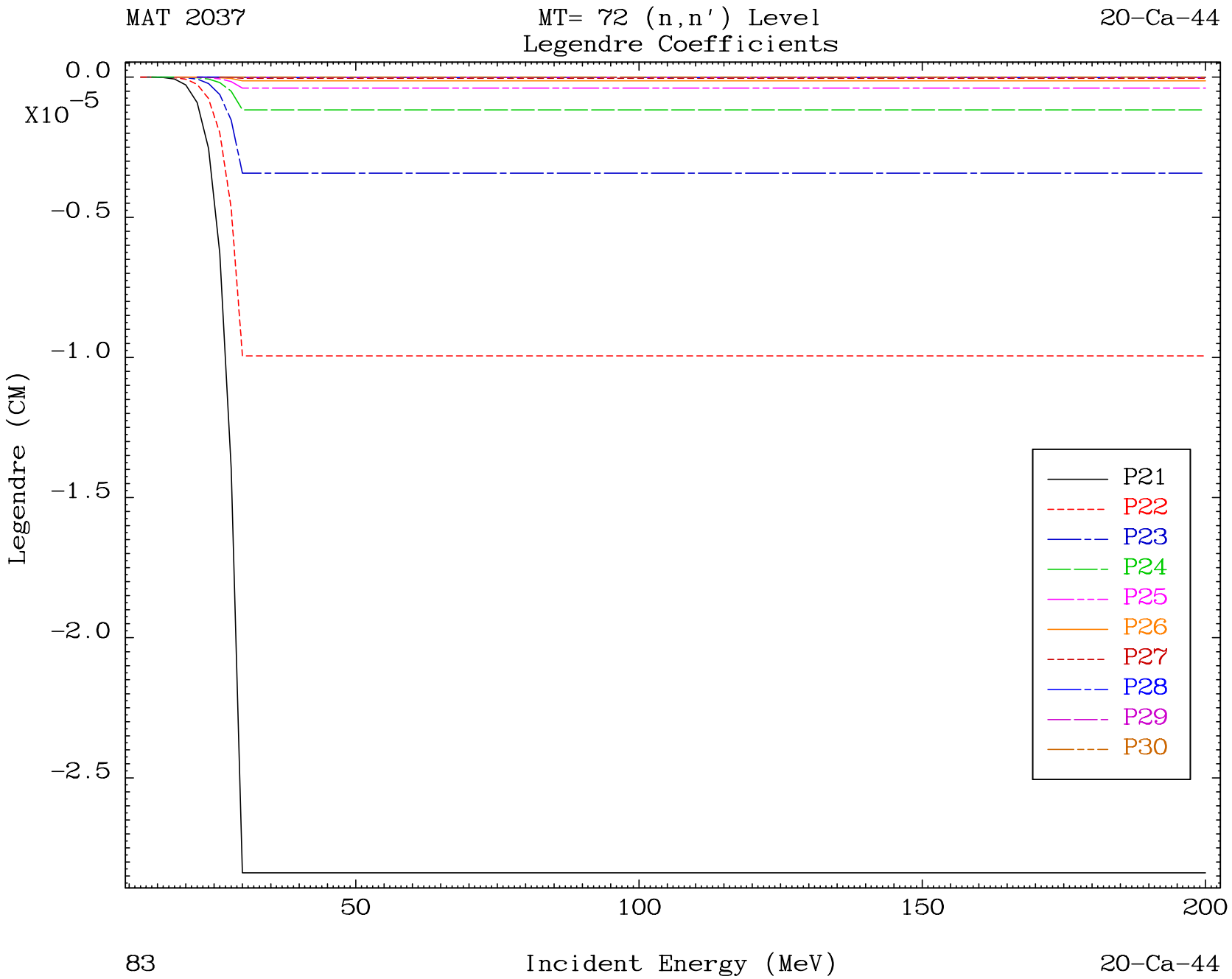

MAT 2037
MT= 71 (n,n') Level
Legendre Coefficients
20-Ca-44
Legendre (CM)
0.5
0.4
0.3
0.2
0.1
0.0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
78
Incident Energy (MeV)
20-Ca-44

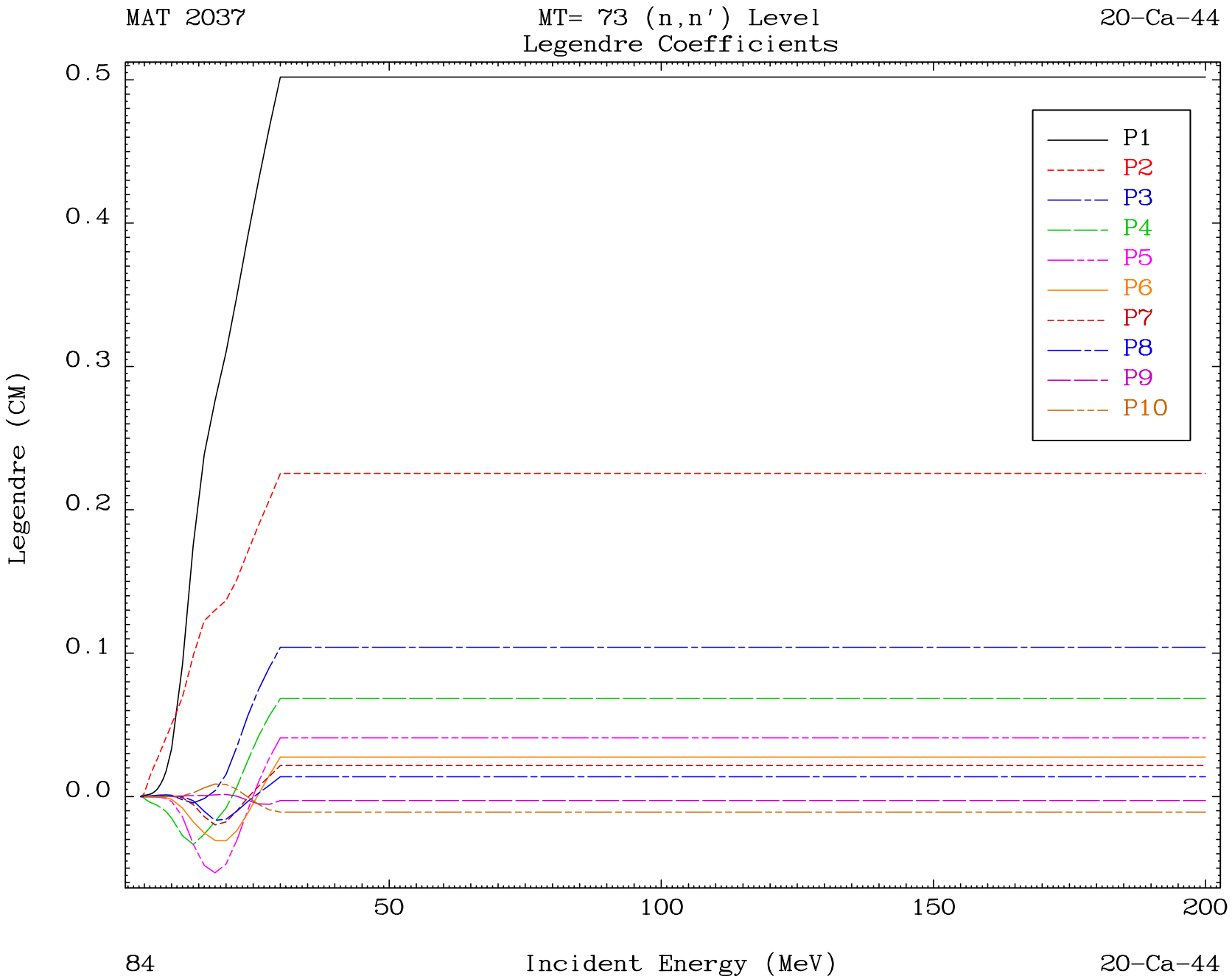

MAT 2037
MT= 71 (n,n') Level
Legendre Coefficients
20-Ca-44
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.020
0.015
0.010
0.005
0.000
Legendre (CM)
50
100
150
200
79
Incident Energy (MeV)
20-Ca-44

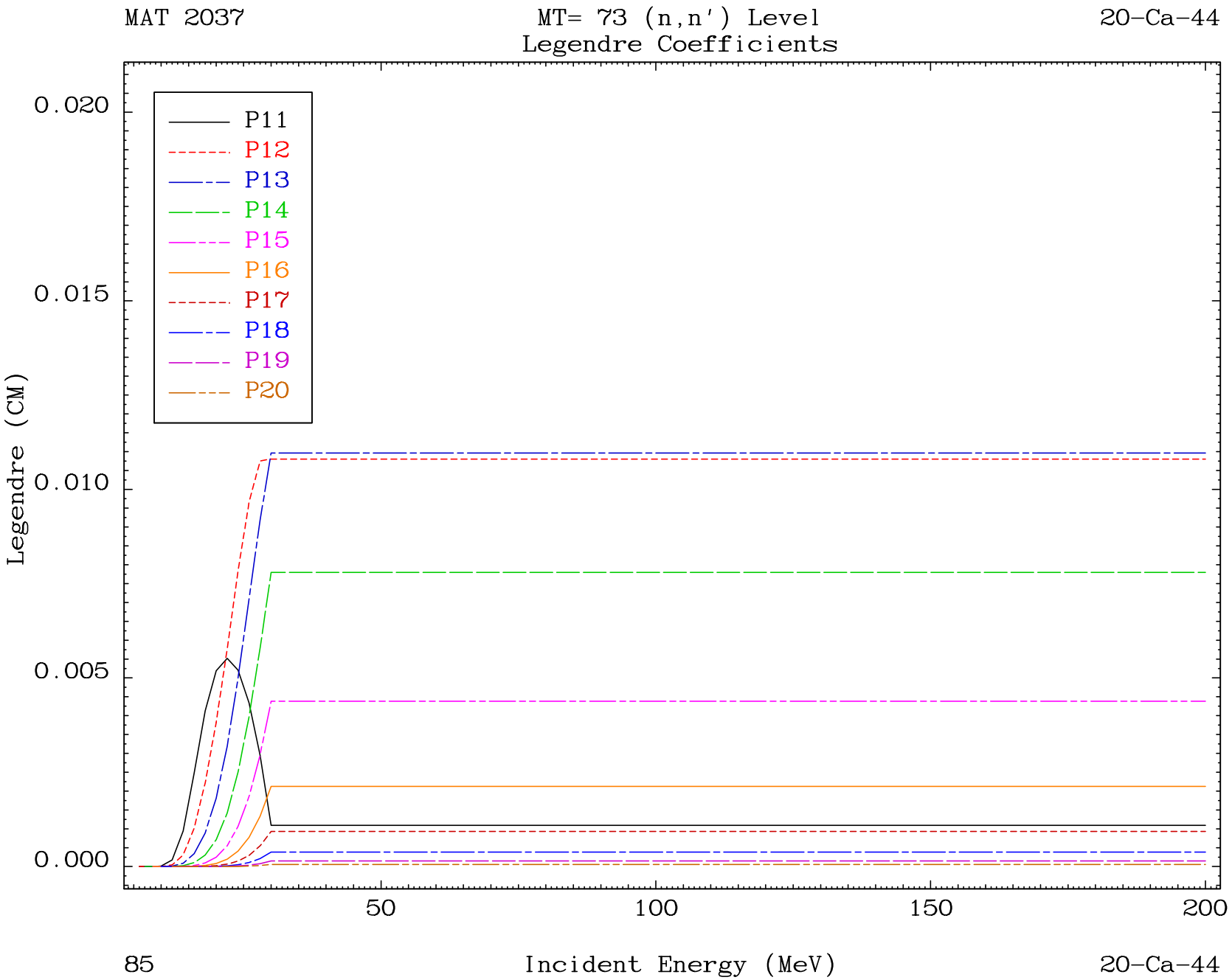

MAT 2037
MT= 71 (n,n') Level
Legendre Coefficients
20-Ca-44
X10-2
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
50
100
150
200
80
Incident Energy (MeV)
20-Ca-44

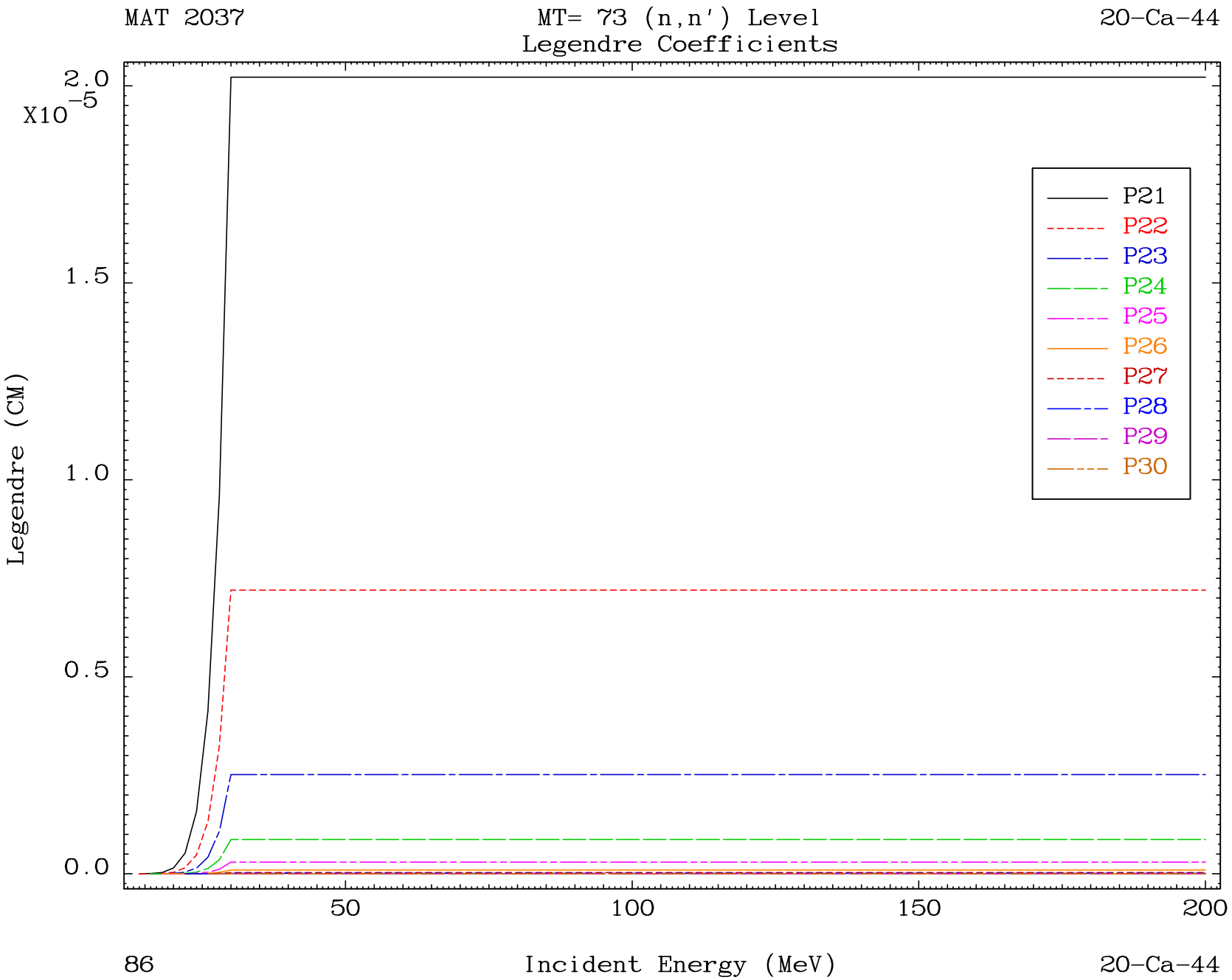

MAT 2037
MT= 72 (n,n') Level
Legendre Coefficients
20-Ca-44
Legendre (CM)
0.3
0.2
0.1
0.0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
81
Incident Energy (MeV)
20-Ca-44

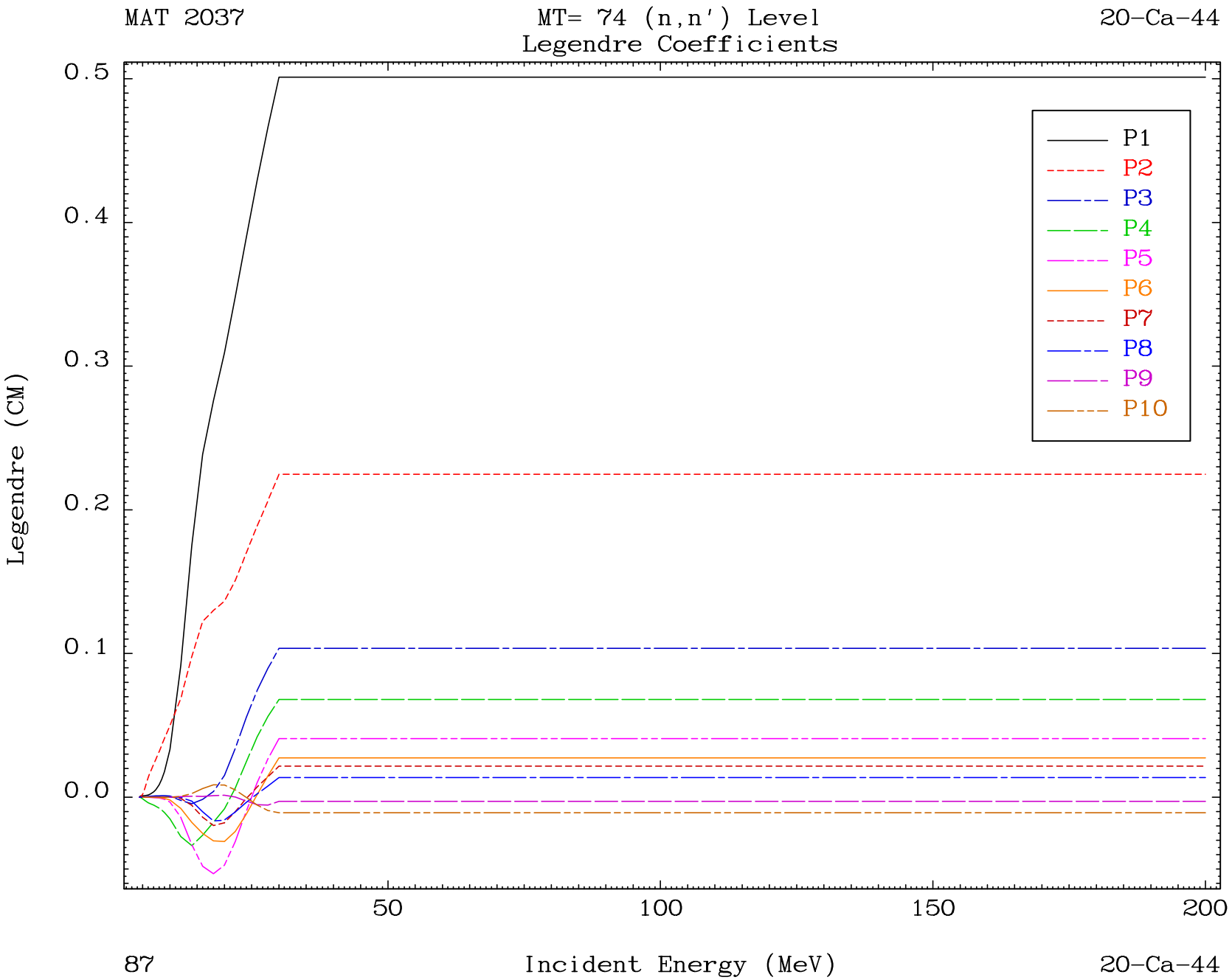

MAT 2037
MT= 72 (n,n') Level
Legendre Coefficients
20-Ca-44
0.02
0.01
0.00
-0.01
-0.02
Legendre (CM)
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
50
100
150
200
82
Incident Energy (MeV)
20-Ca-44

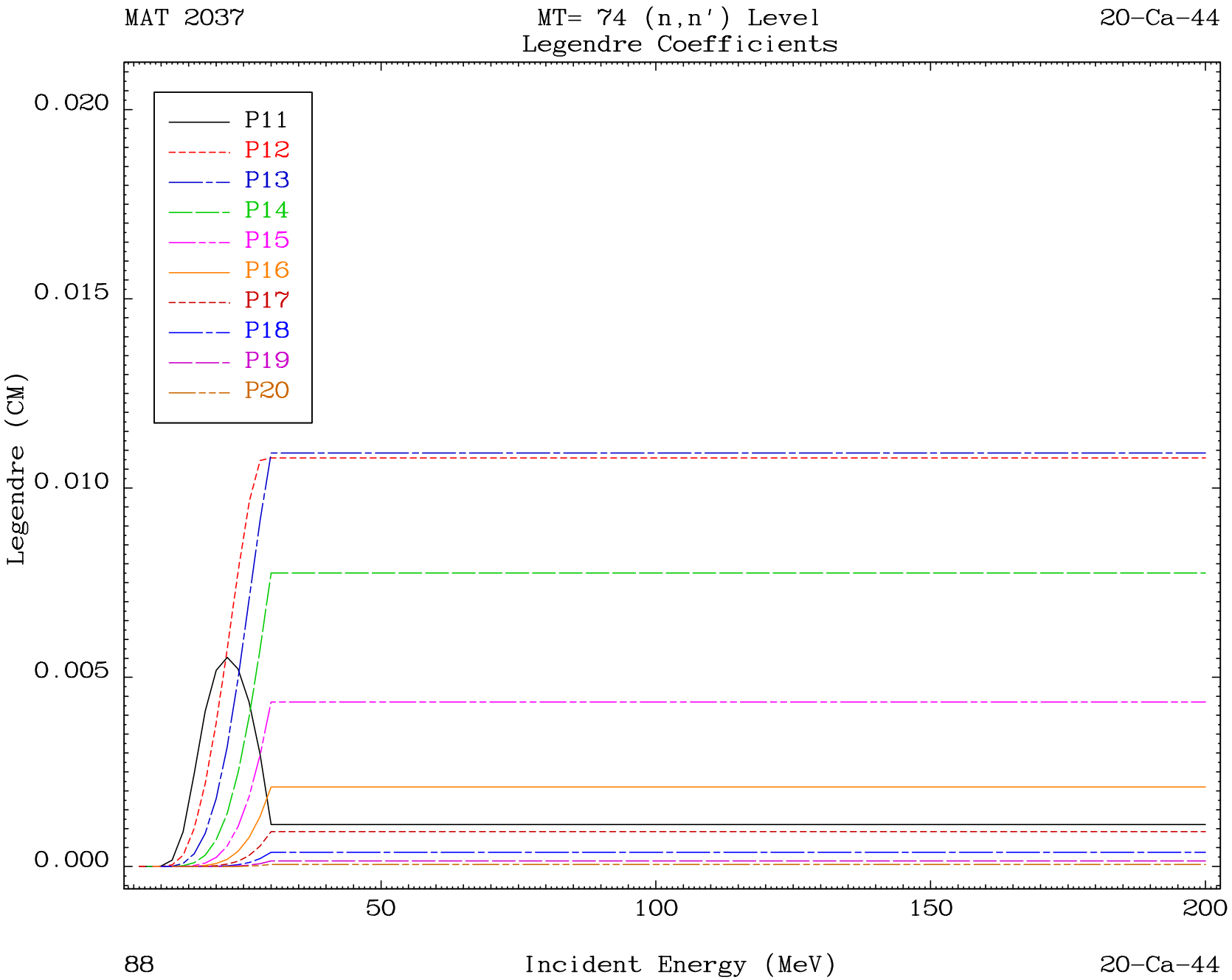

MAT 2037
MT= 72 (n,n') Level
Legendre Coefficients
20-Ca-44
0.0
X10^-5
-0.5
-1.0
-1.5
-2.0
-2.5
Legendre (CM)
50
100
150
200
Incident Energy (MeV)
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30

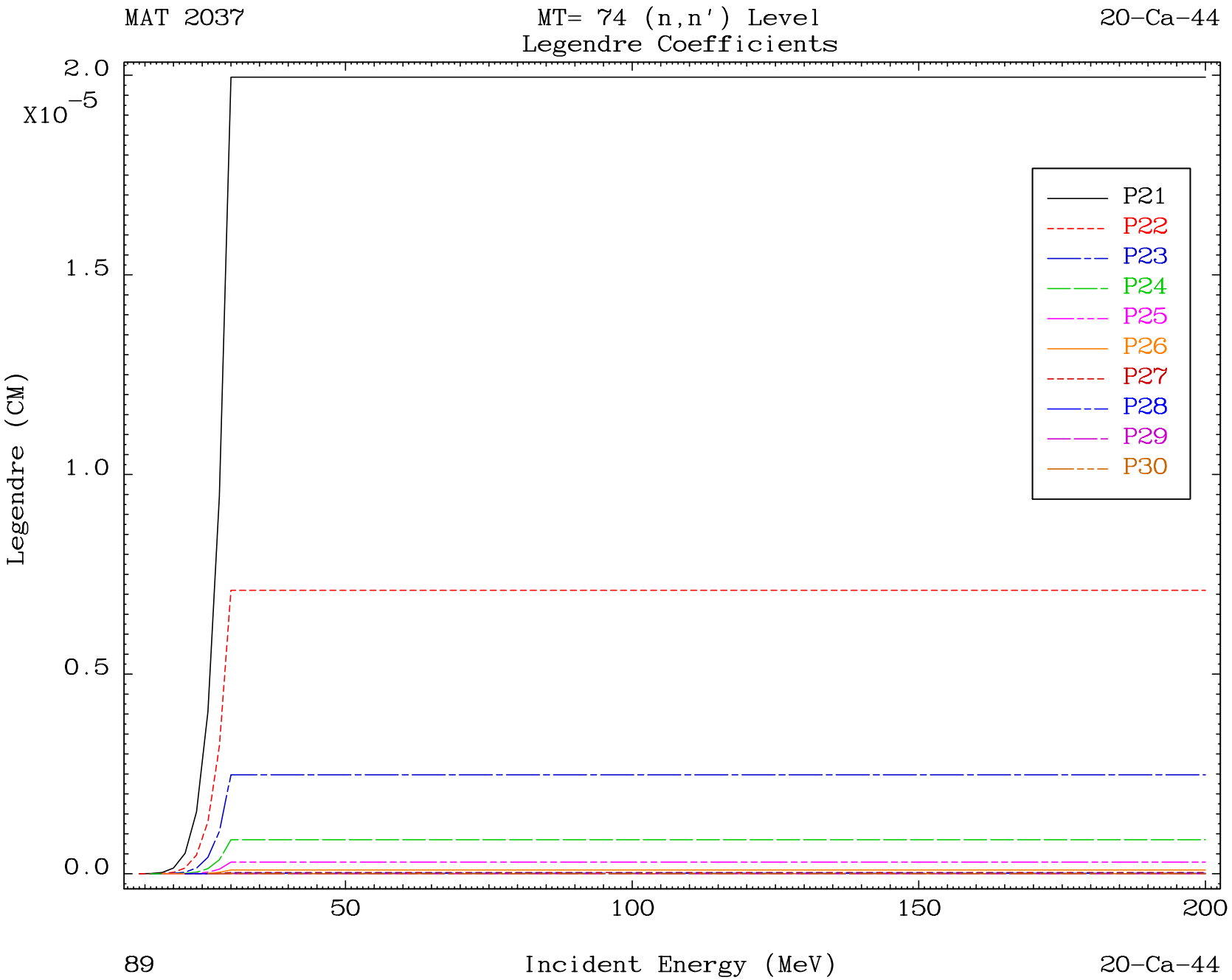

MAT 2037
MT= 73 (n,n') Level
Legendre Coefficients
20-Ca-44
Legendre (CM)
0.5
0.4
0.3
0.2
0.1
0.0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
84
Incident Energy (MeV)
20-Ca-44

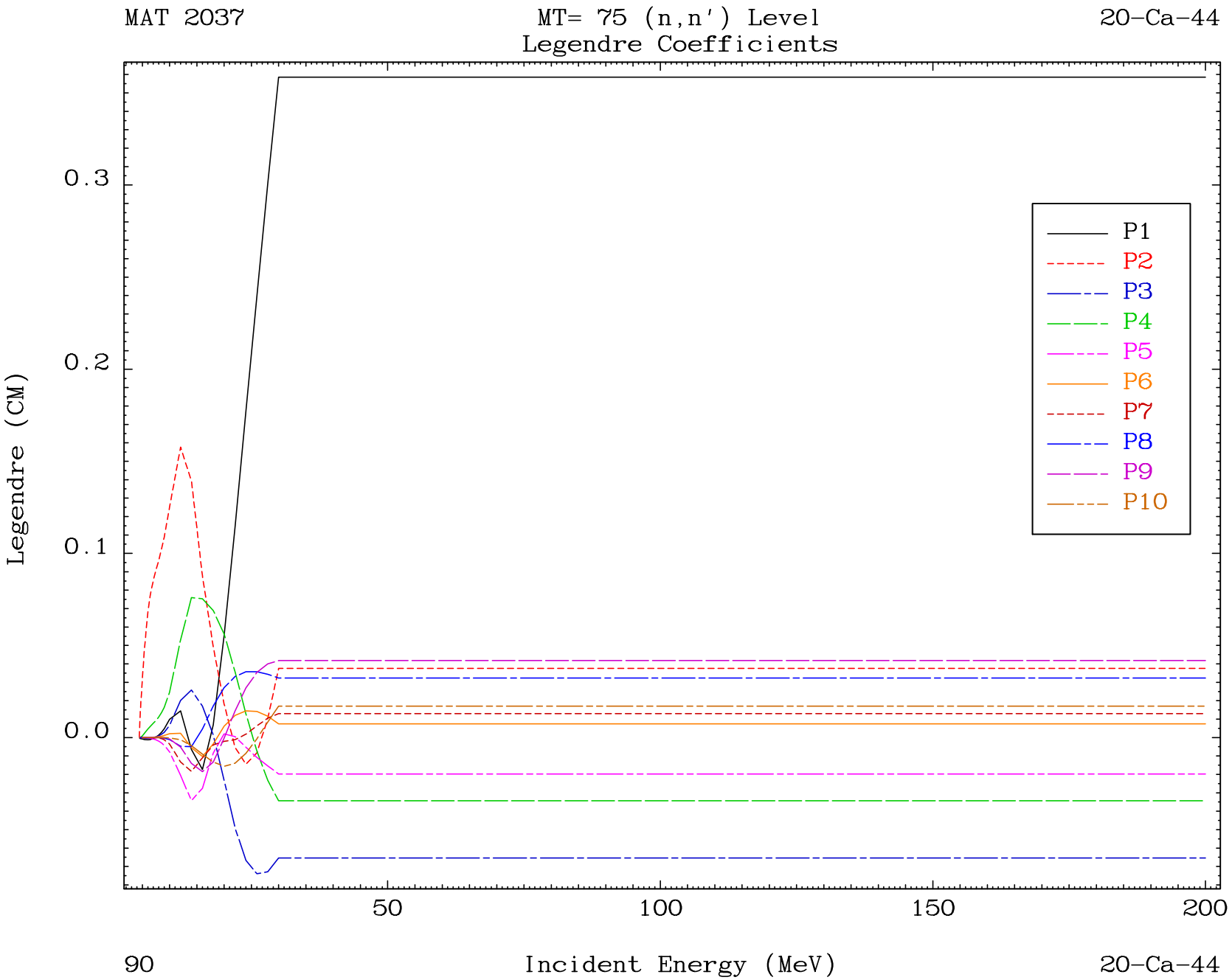

MAT 2037
MT= 73 (n,n') Level
Legendre Coefficients
20-Ca-44
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.020
0.015
0.010
0.005
0.000
Legendre (CM)
50
100
150
200
85
Incident Energy (MeV)
20-Ca-44

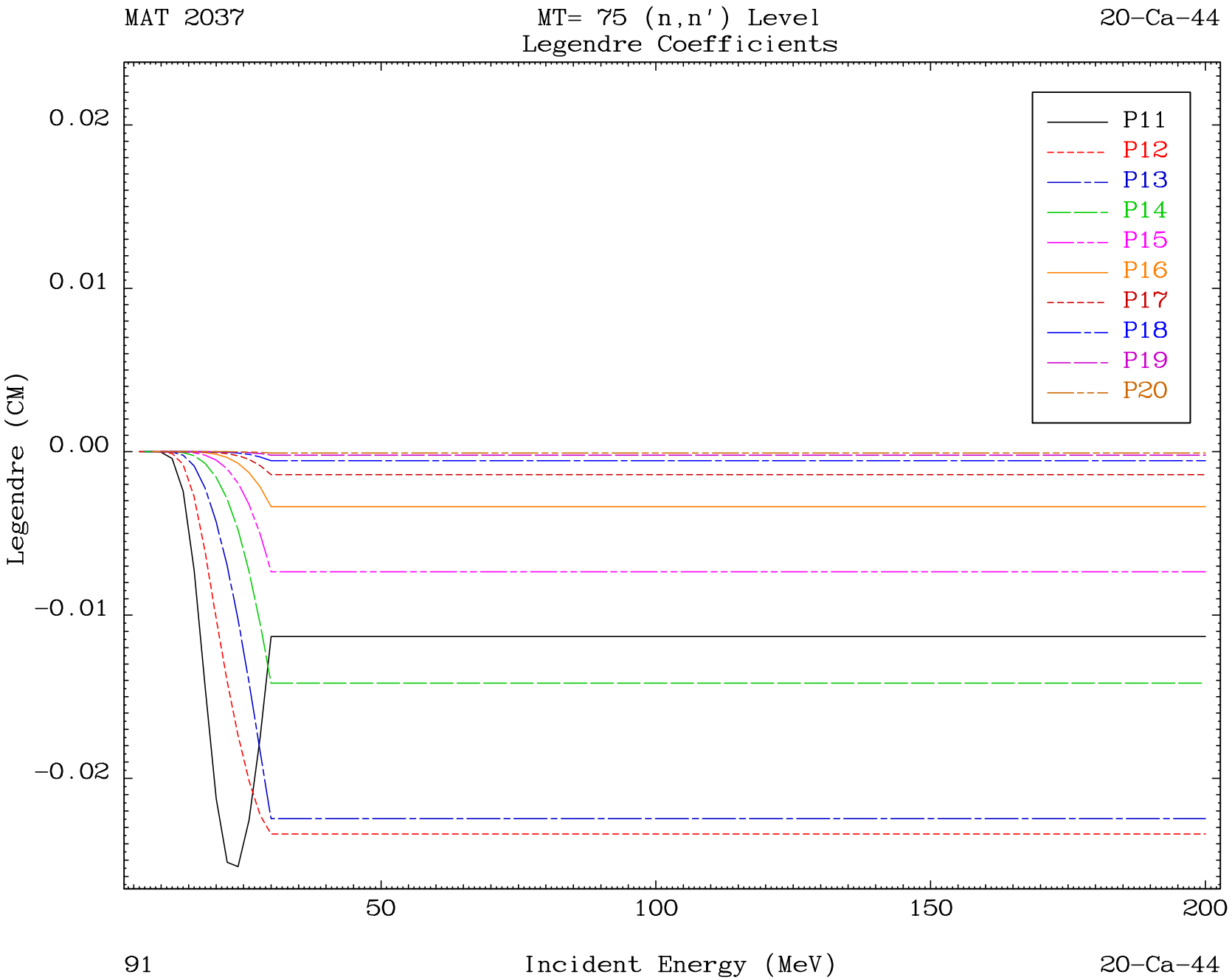

MAT 2037
MT= 73 (n,n') Level
Legendre Coefficients
20-Ca-44
X10 -5
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
50
100
150
200
86
Incident Energy (MeV)
20-Ca-44

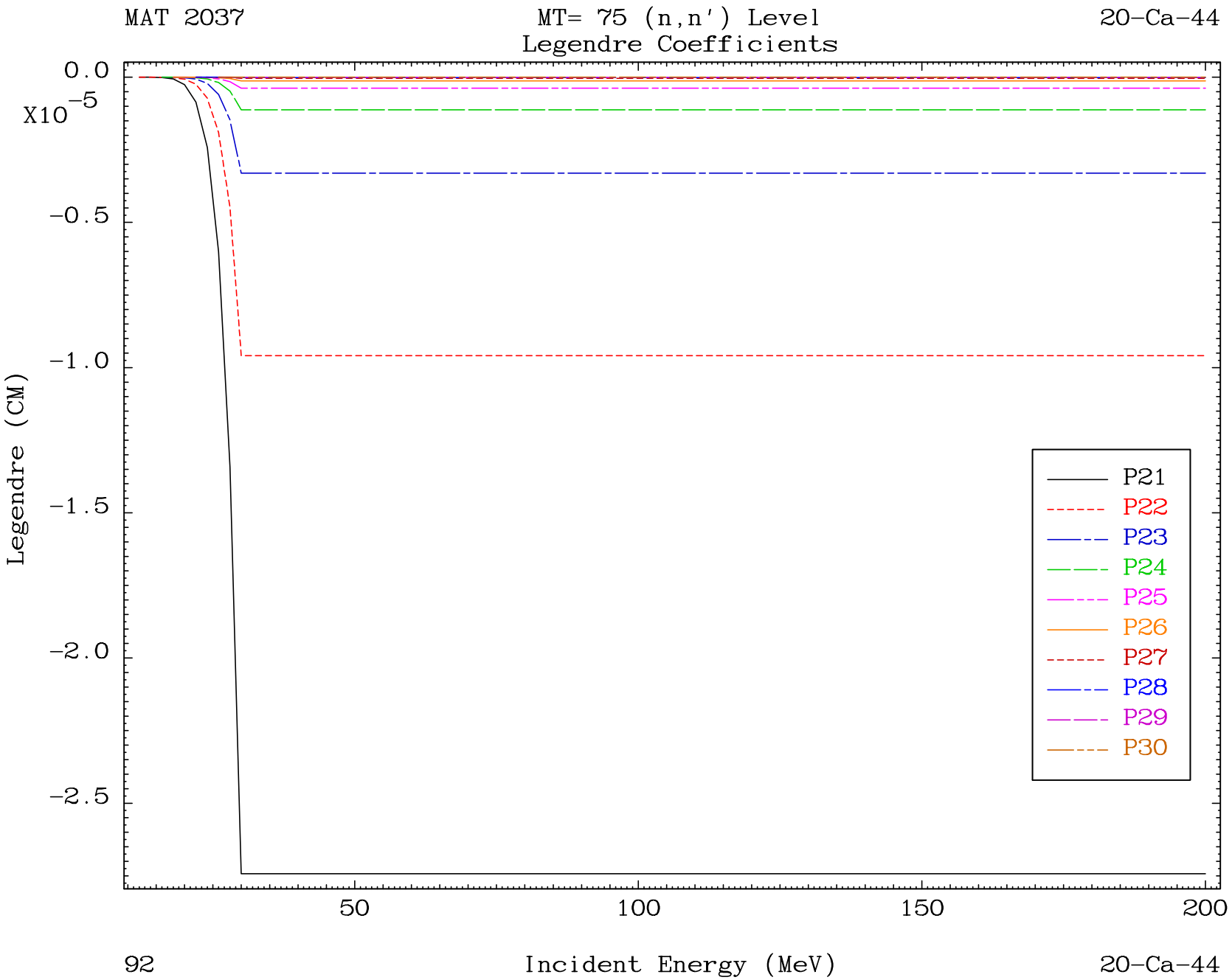

MAT 2037
MT= 74 (n,n') Level
Legendre Coefficients
20-Ca-44
0.5
0.4
0.3
0.2
0.1
0.0
Legendre (CM)
50
100
150
200
87
Incident Energy (MeV)
20-Ca-44
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10

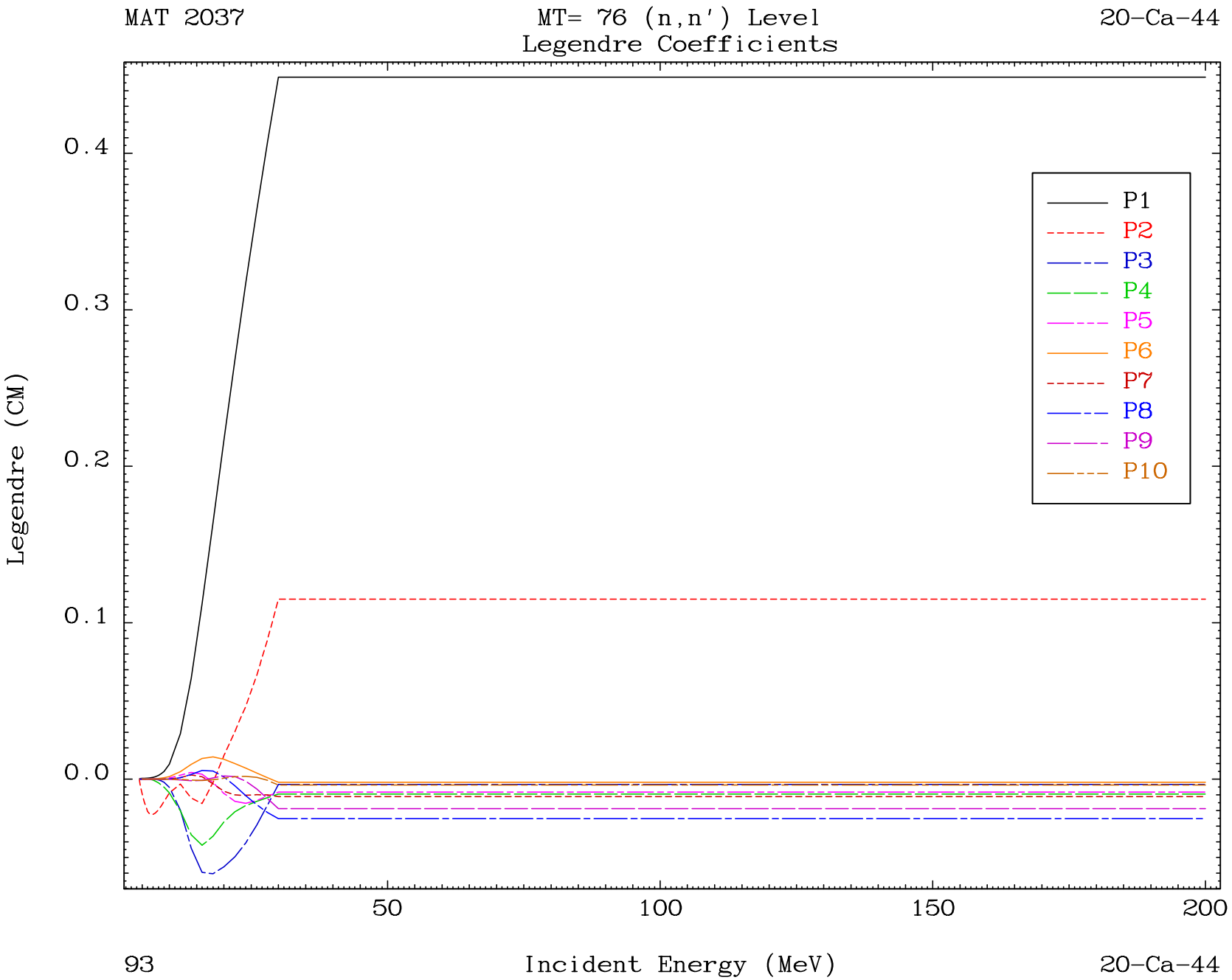

MAT 2037
MT= 74 (n,n') Level
Legendre Coefficients
20-Ca-44
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.020
0.015
0.010
0.005
0.000
Legendre (CM)
50
100
150
200
88
Incident Energy (MeV)
20-Ca-44

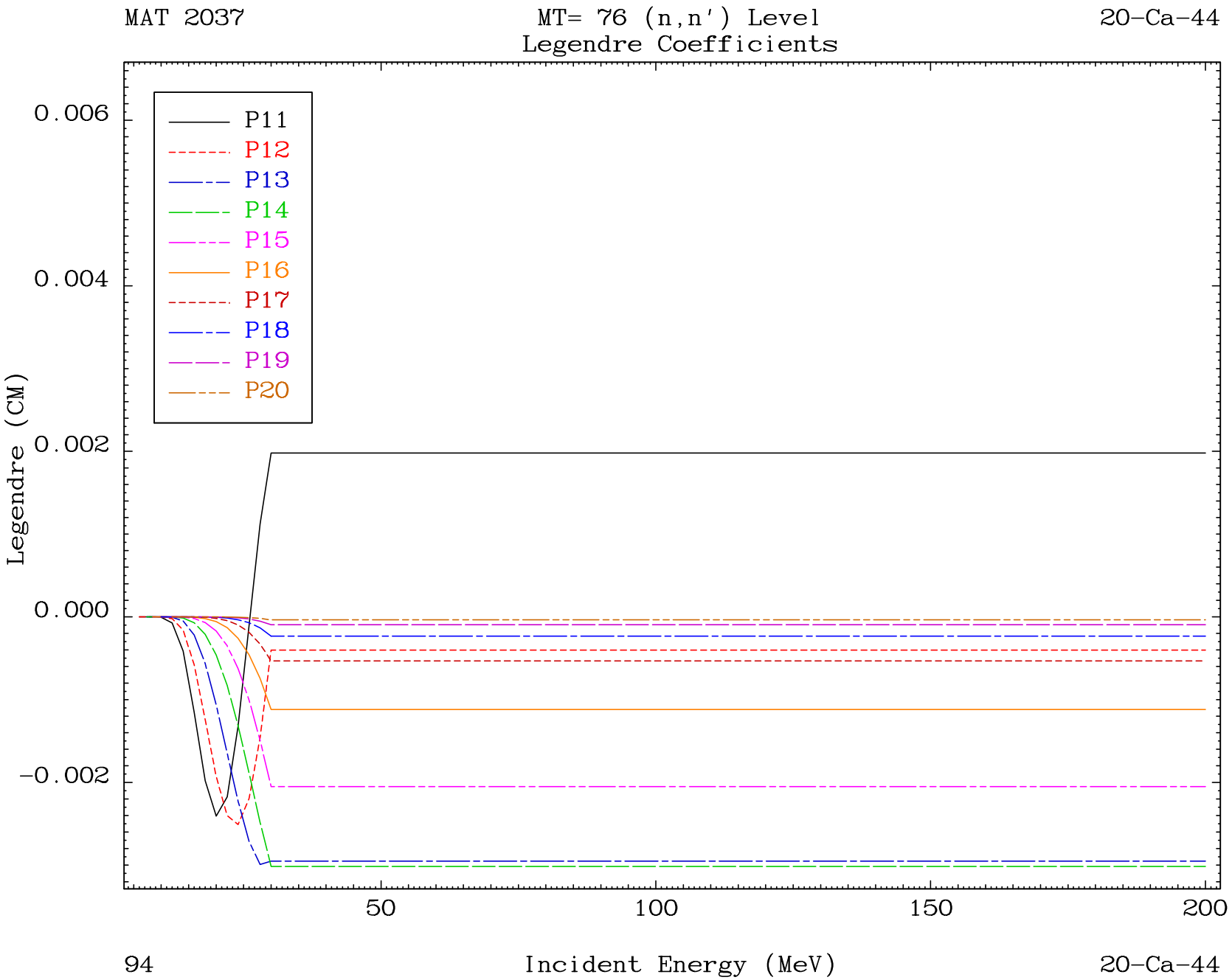

MAT 2037
MT= 74 (n,n') Level
Legendre Coefficients
20-Ca-44
X10 -5
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
50
100
150
200
89
Incident Energy (MeV)
20-Ca-44

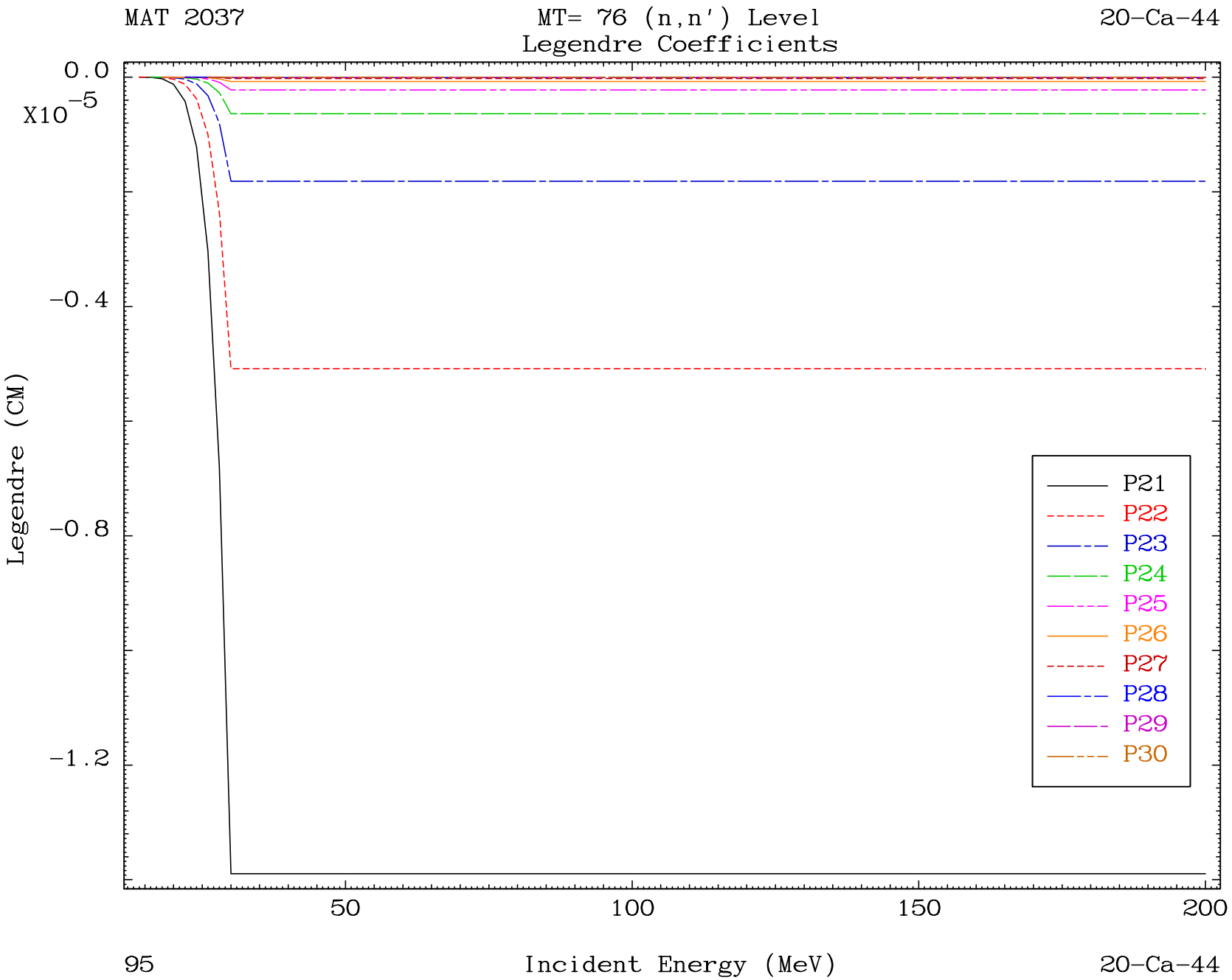

MAT 2037
MT= 75 (n,n') Level
Legendre Coefficients
20-Ca-44
Legendre (CM)
0.3
0.2
0.1
0.0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
90
Incident Energy (MeV)
20-Ca-44

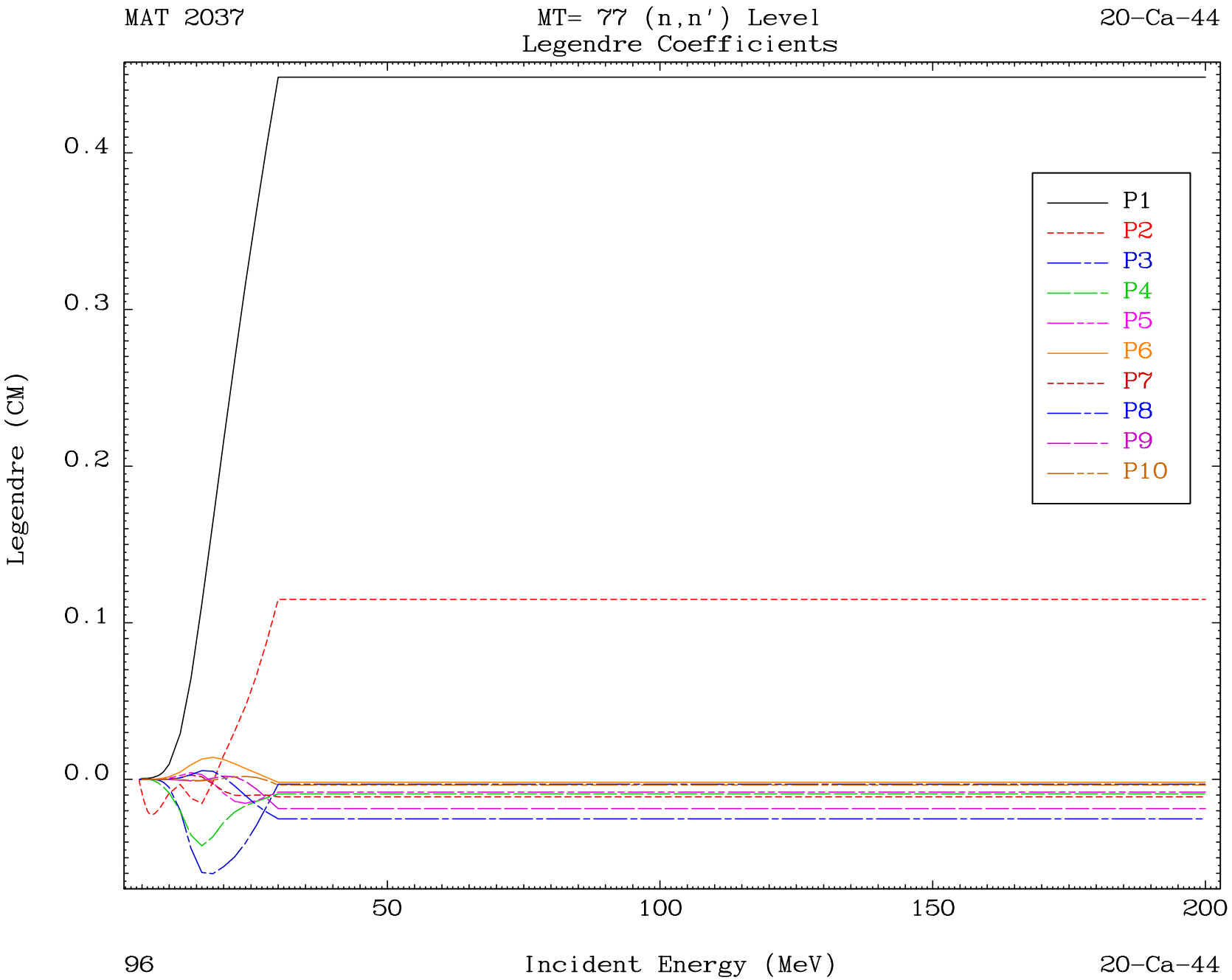

MAT 2037
MT= 75 (n,n') Level
Legendre Coefficients
20-Ca-44
0.02
0.01
0.00
-0.01
-0.02
Legendre (CM)
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
50
100
150
200
91
Incident Energy (MeV)
20-Ca-44

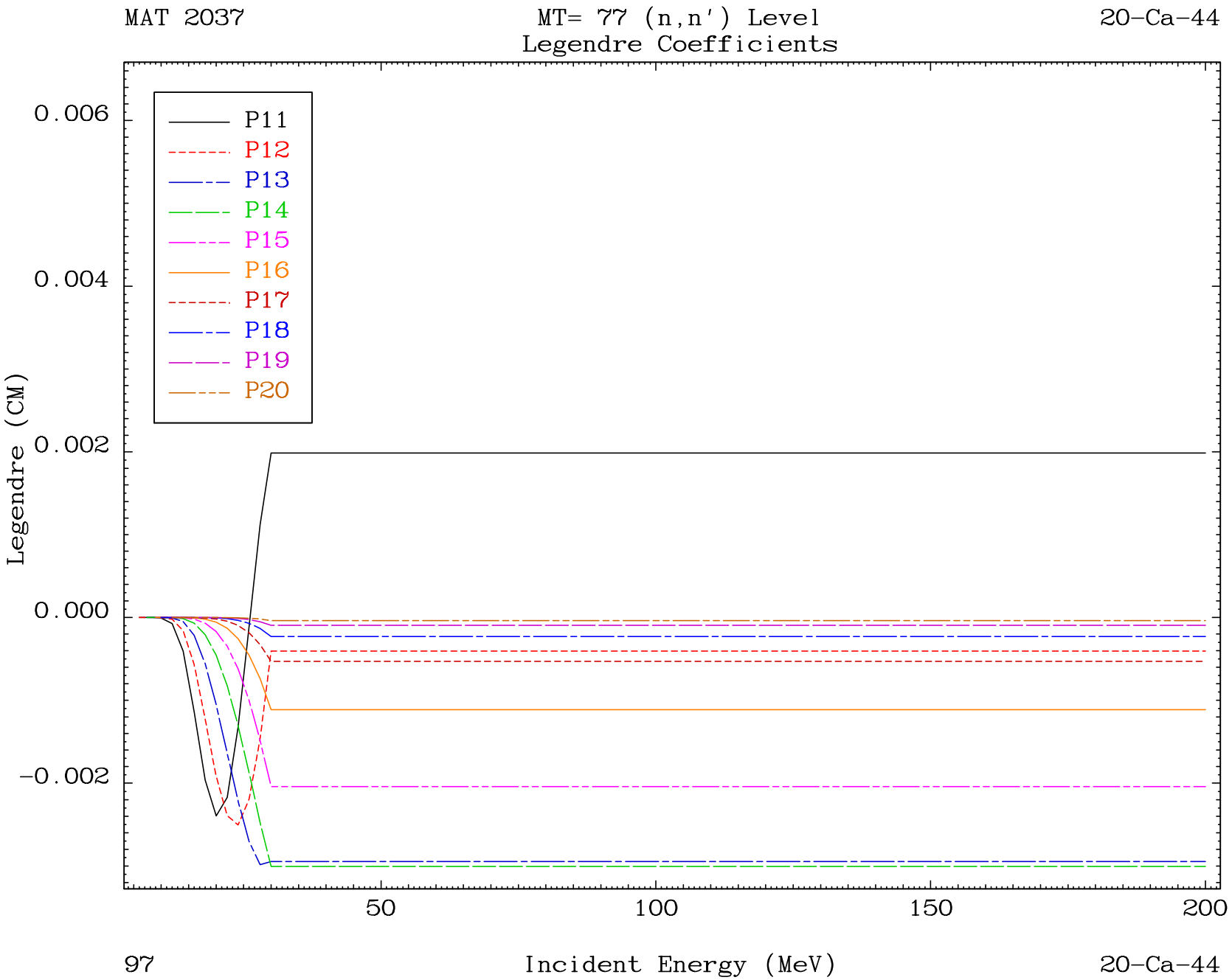

MAT 2037
MT= 75 (n,n') Level
Legendre Coefficients
20-Ca-44
0.0
X10^-5
-0.5
-1.0
-1.5
-2.0
-2.5
Legendre (CM)
50
100
150
200
92
Incident Energy (MeV)
20-Ca-44
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30

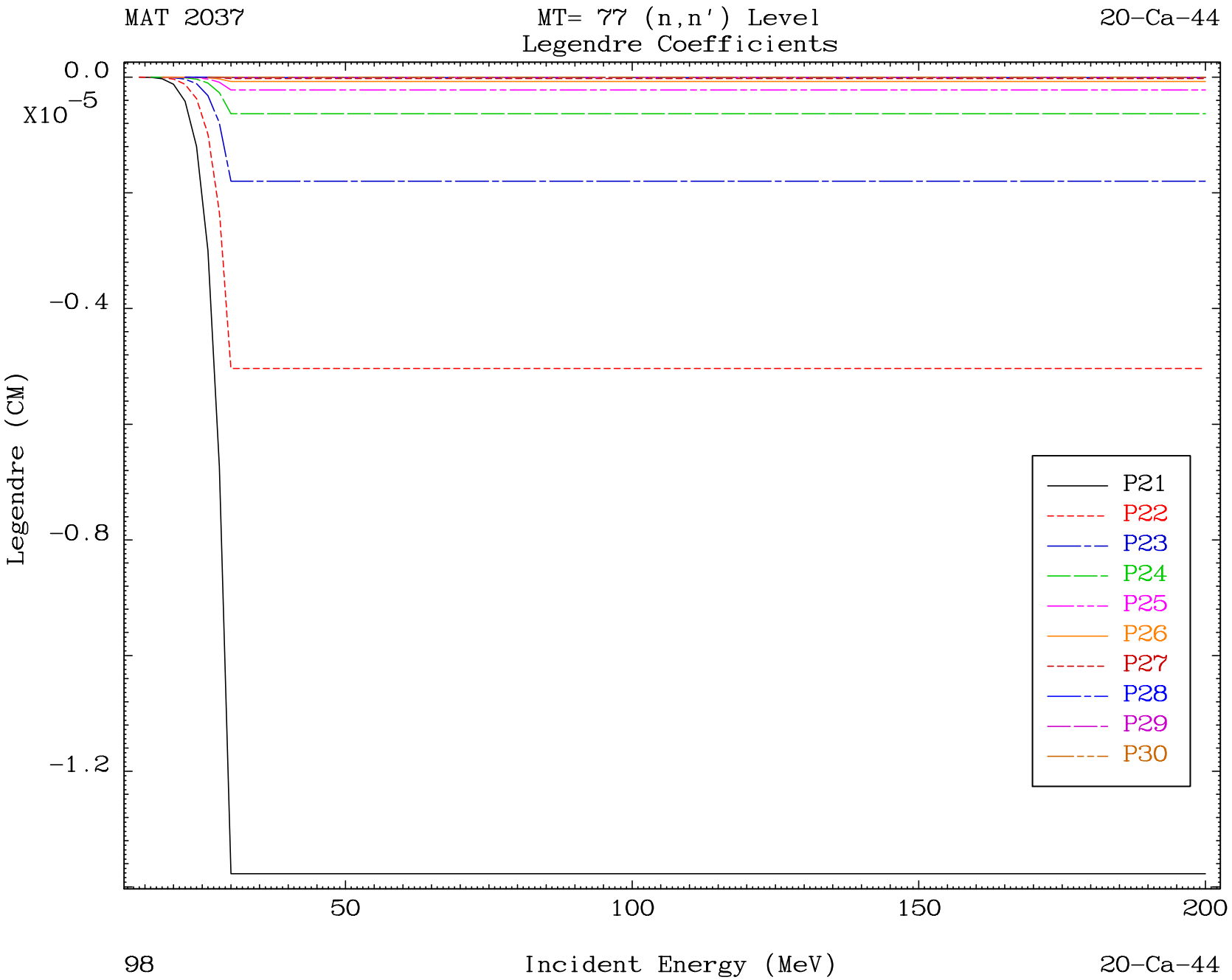

MAT 2037
MT= 76 (n,n') Level
Legendre Coefficients
20-Ca-44
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
93
Incident Energy (MeV)
20-Ca-44

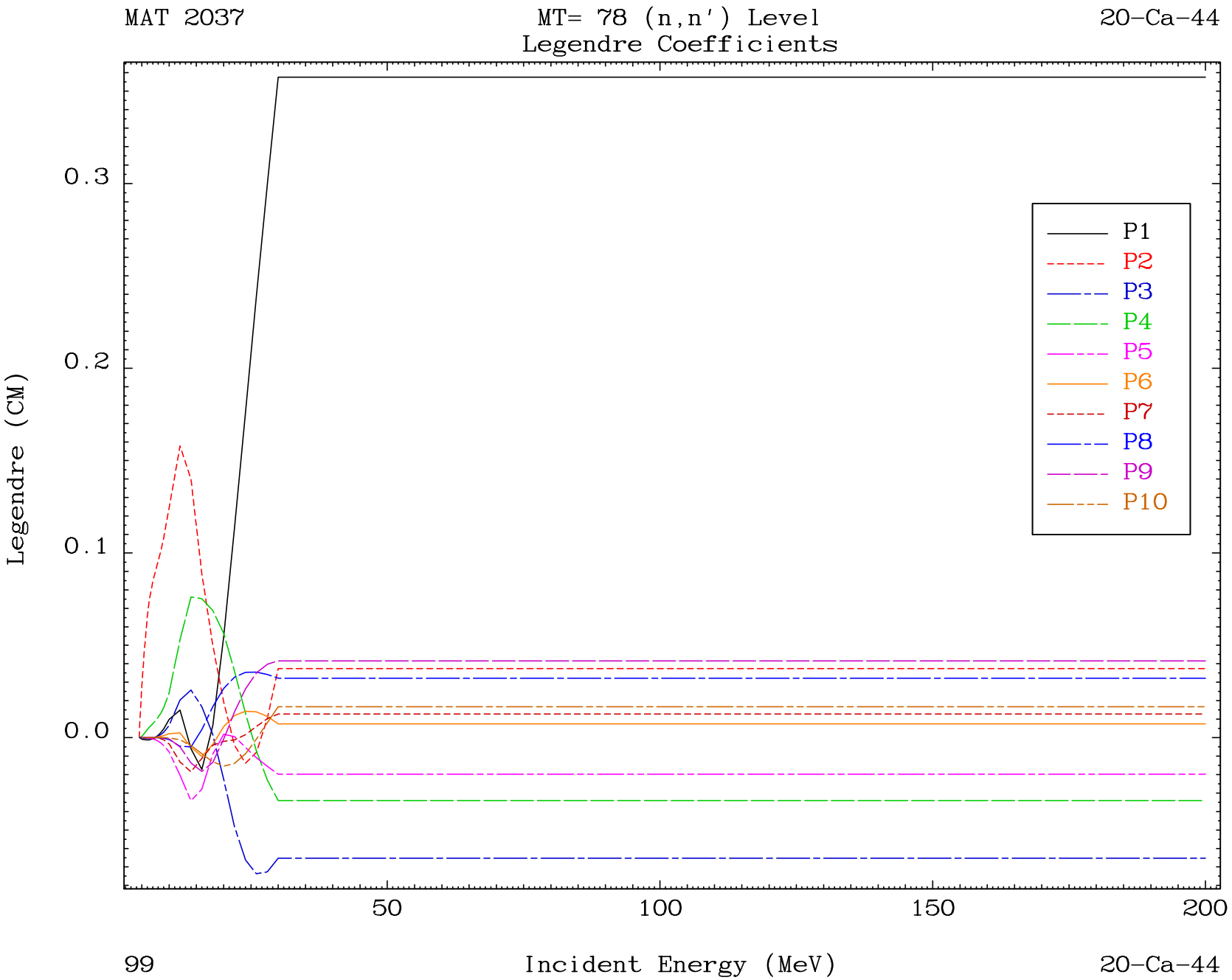

MAT 2037
MT= 76 (n,n') Level
Legendre Coefficients
20-Ca-44
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.006
0.004
0.002
0.000
-0.002
Legendre (CM)
50
100
150
200
94
Incident Energy (MeV)
20-Ca-44

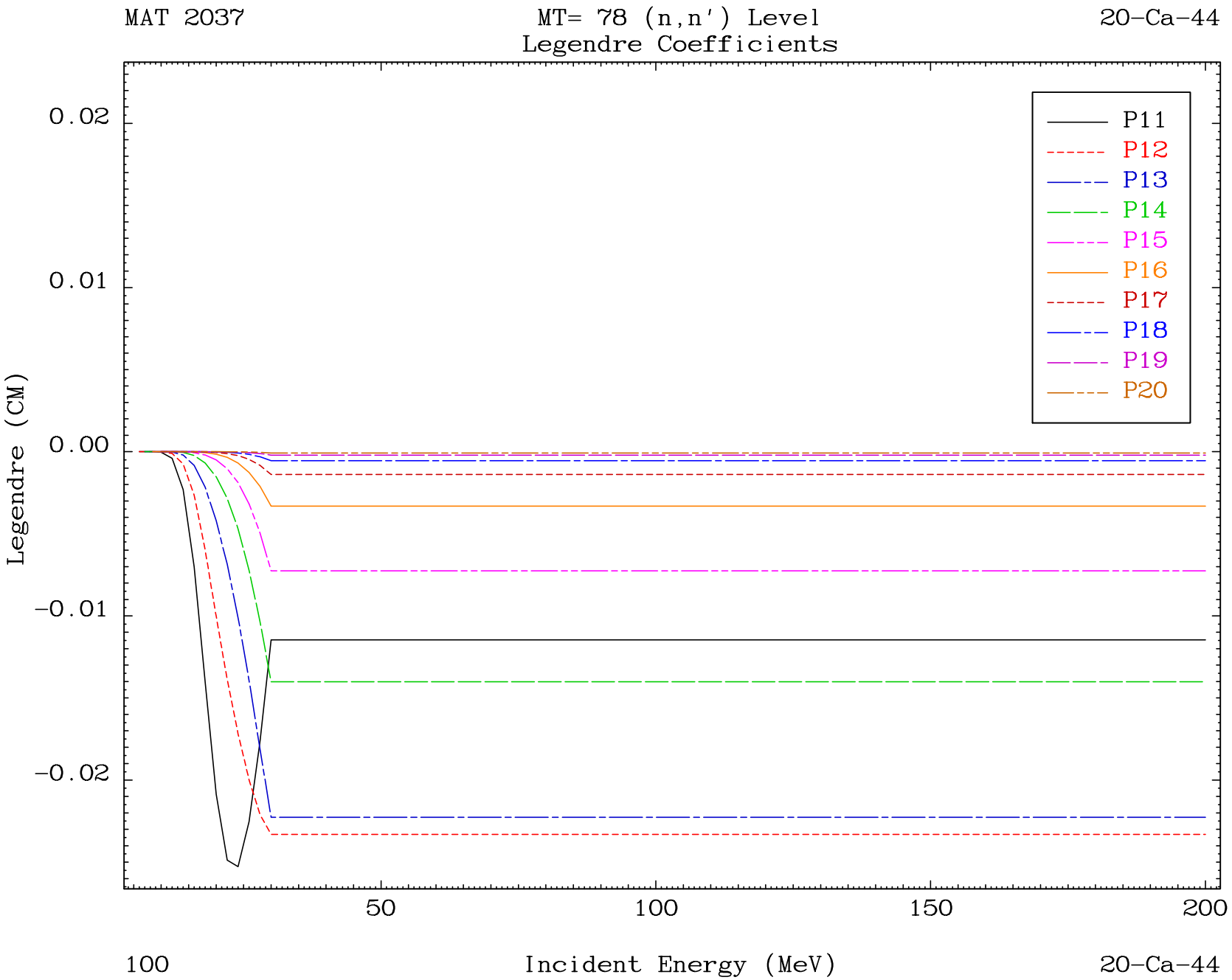

MAT 2037
MT= 76 (n,n') Level
Legendre Coefficients
20-Ca-44
0.0
X10^-5
-0.4
-0.8
-1.2
Legendre (CM)
50
100
150
200
95
Incident Energy (MeV)
20-Ca-44
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30

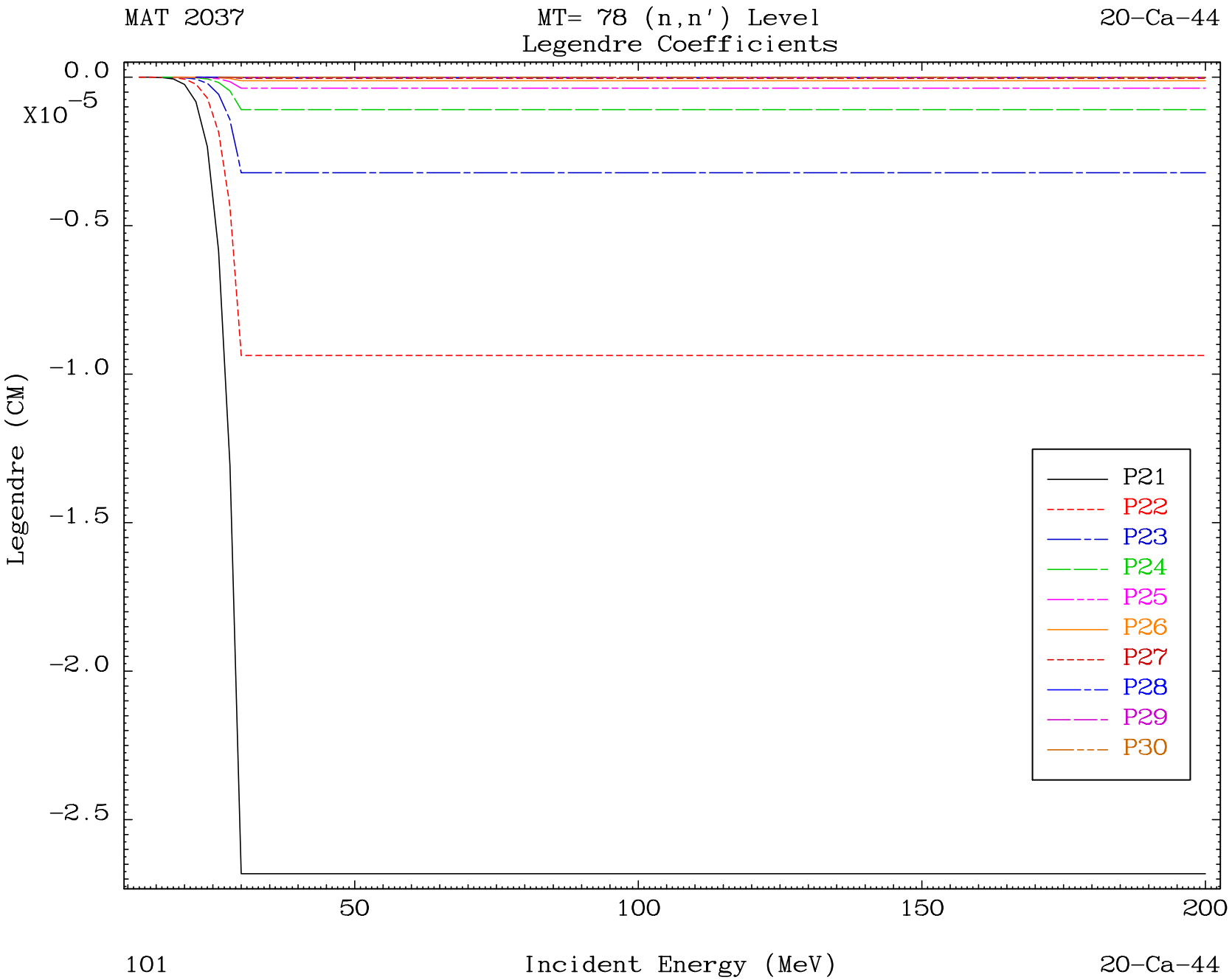

MAT 2037
MT= 77 (n,n') Level
Legendre Coefficients
20-Ca-44
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
96
Incident Energy (MeV)
20-Ca-44

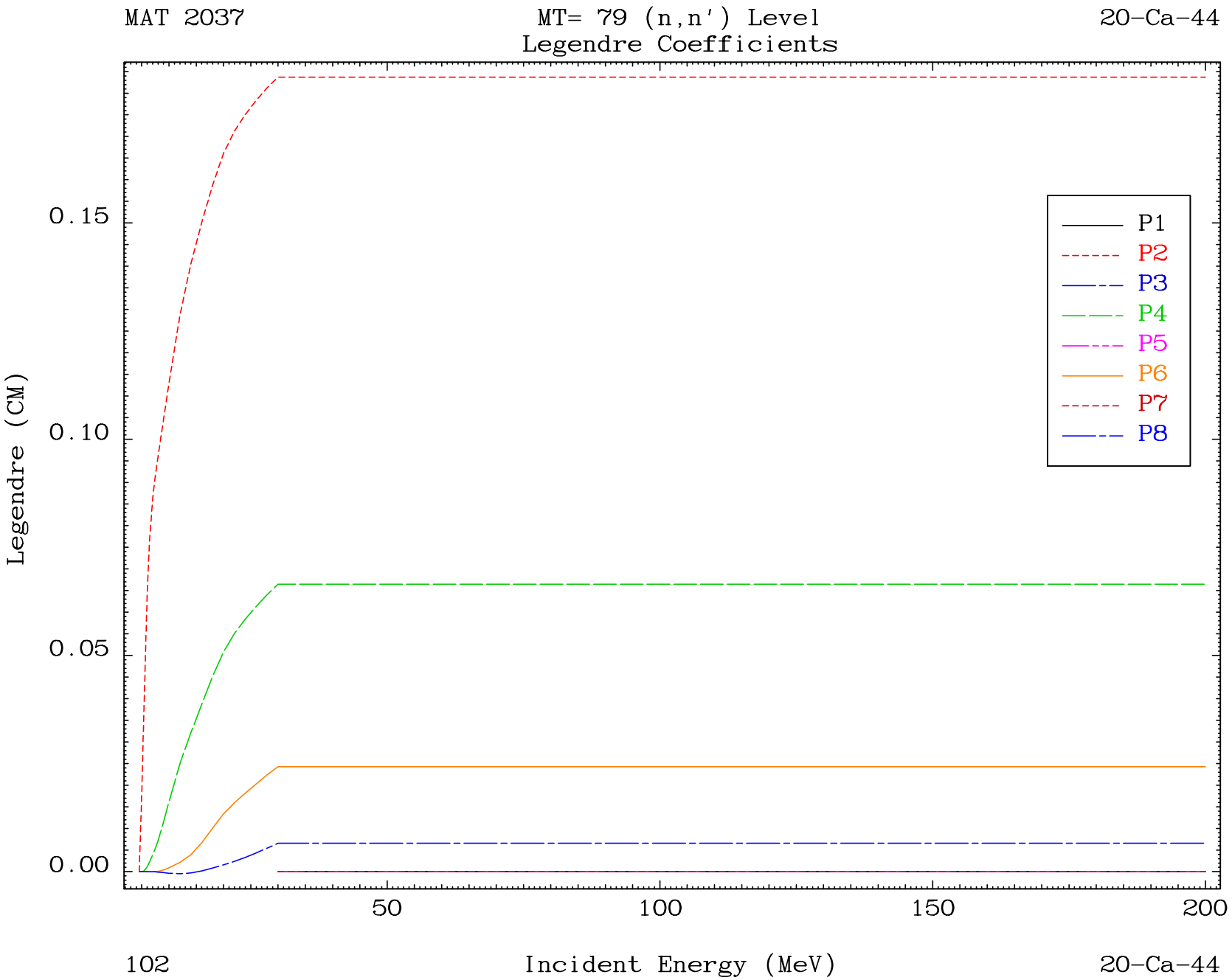

MAT 2037
MT= 77 (n,n') Level
Legendre Coefficients
20-Ca-44
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.006
0.004
0.002
0.000
-0.002
Legendre (CM)
50
100
150
200
97
Incident Energy (MeV)
20-Ca-44

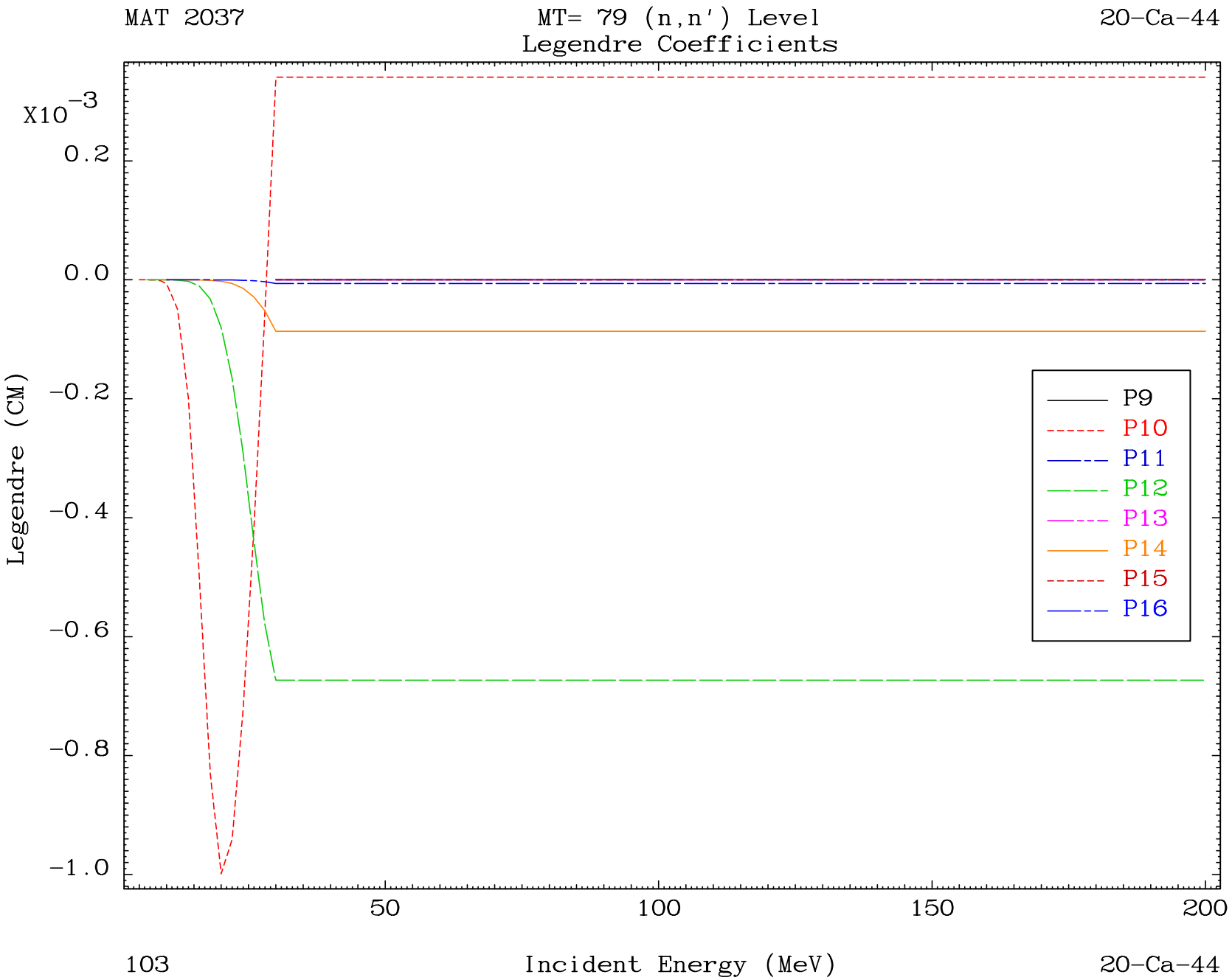

MAT 2037
MT= 77 (n,n') Level
Legendre Coefficients
20-Ca-44
0.0
X10^-5
-0.4
-0.8
-1.2
Legendre (CM)
50
100
150
200
98
Incident Energy (MeV)
20-Ca-44
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30

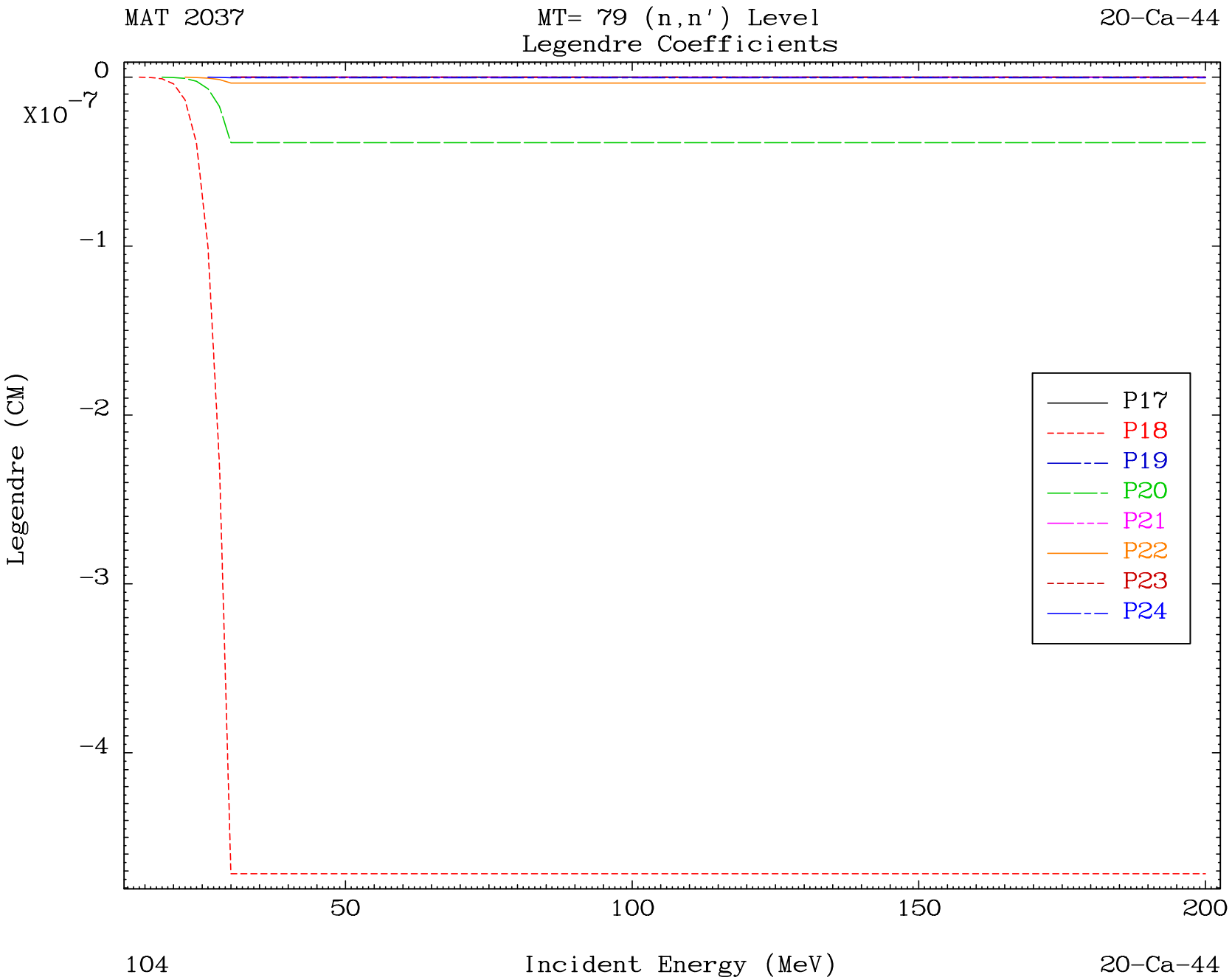

MAT 2037
MT= 78 (n,n') Level
Legendre Coefficients
20-Ca-44
Legendre (CM)
0.3
0.2
0.1
0.0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
99
Incident Energy (MeV)
20-Ca-44

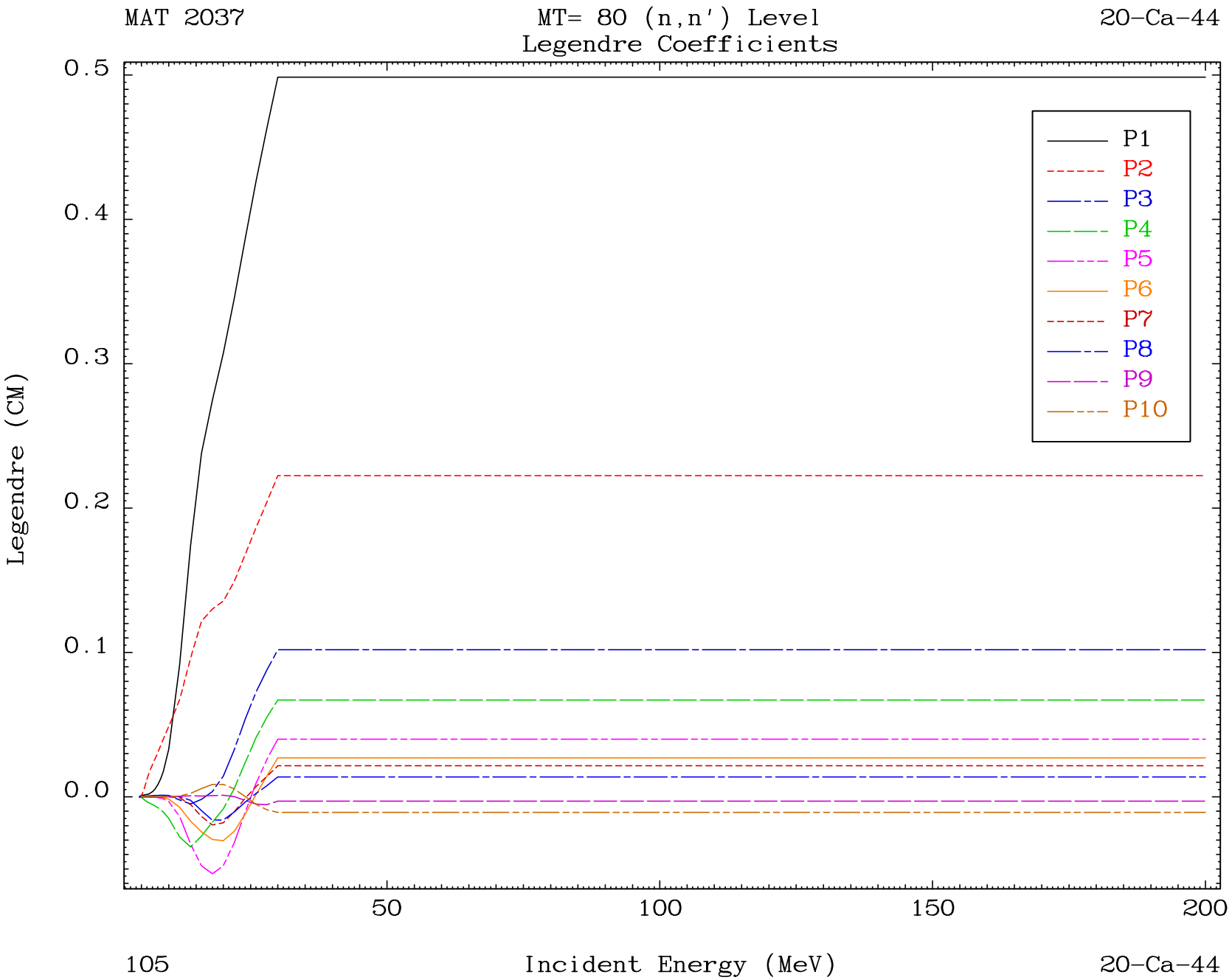

MAT 2037
MT= 78 (n,n') Level
Legendre Coefficients
20-Ca-44
0.02
0.01
0.00
-0.01
-0.02
Legendre (CM)
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
50
100
150
200
100
Incident Energy (MeV)
20-Ca-44

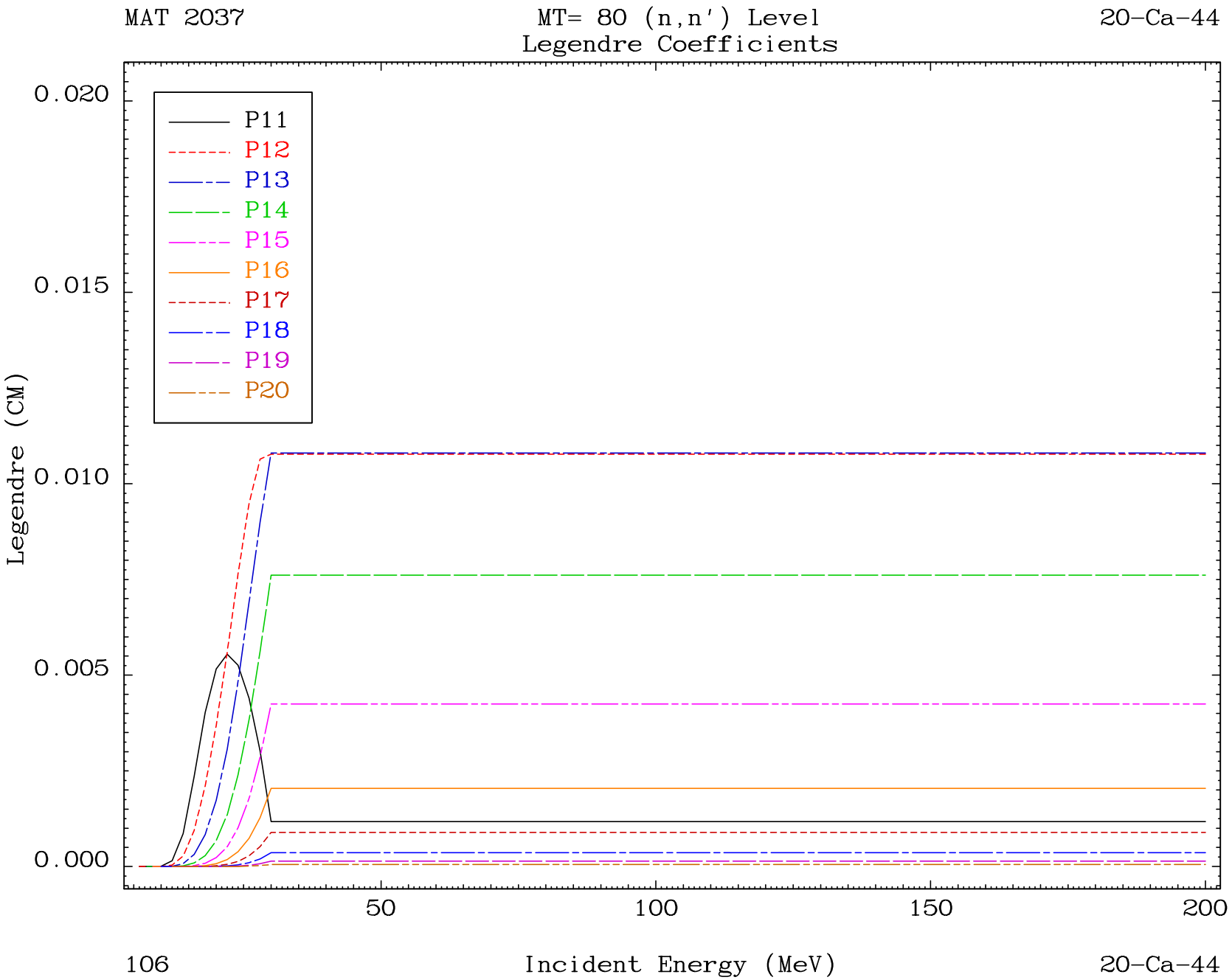

MAT 2037
MT= 78 (n,n') Level
Legendre Coefficients
20-Ca-44
0.0
X10^-5
-0.5
-1.0
-1.5
-2.0
-2.5
Legendre (CM)
50
100
150
200
101
Incident Energy (MeV)
20-Ca-44
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30

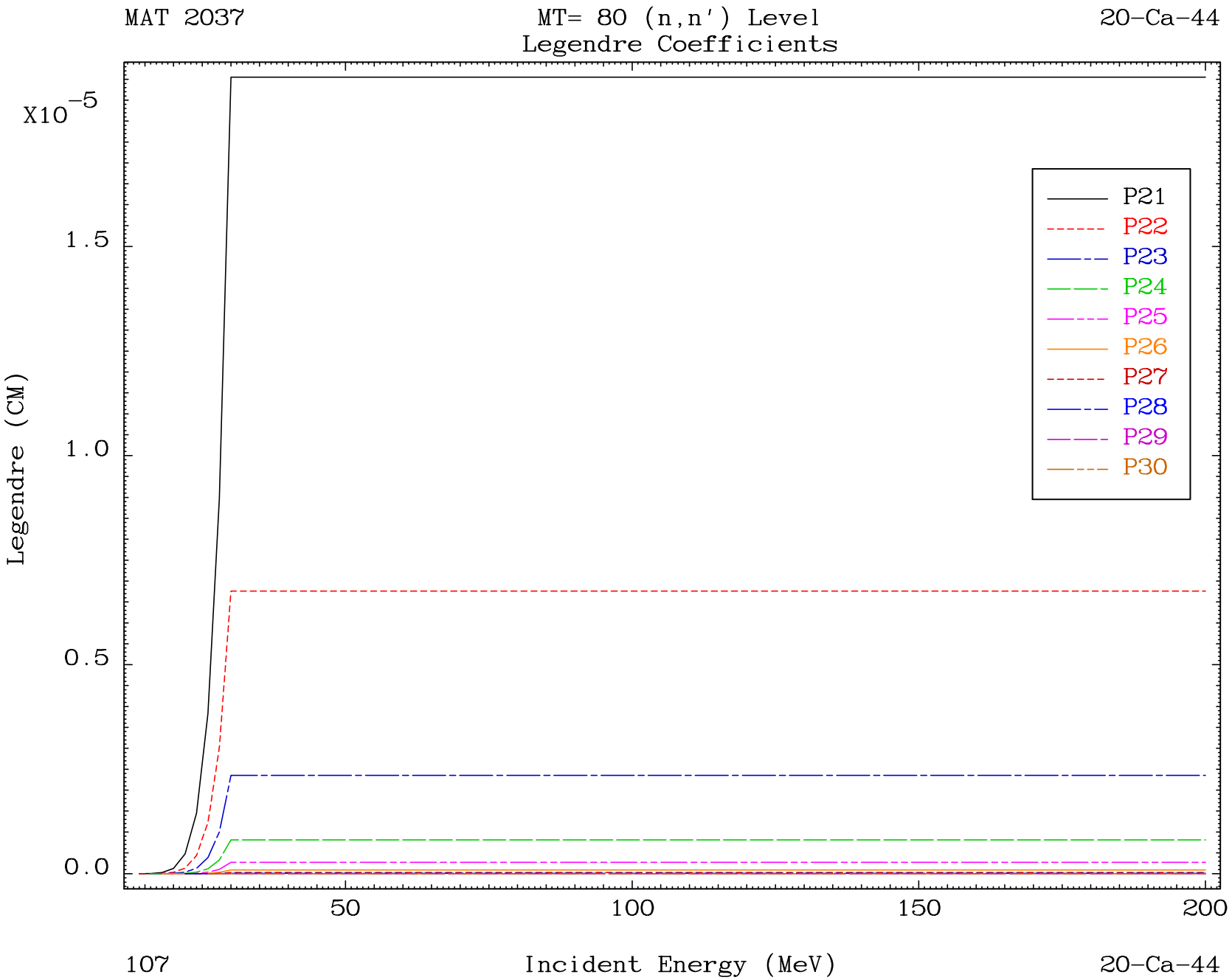

MAT 2037
MT= 79 (n,n') Level
Legendre Coefficients
20-Ca-44
0.15
0.10
0.05
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
50
100
150
200
102
Incident Energy (MeV)
20-Ca-44


MAT 2037
MT= 79 (n,n') Level
Legendre Coefficients
20-Ca-44
X10^-3
0.2
0.0
-0.2
-0.4
-0.6
-0.8
-1.0
Legendre (CM)
50
100
150
200
P9
P10
P11
P12
P13
P14
P15
P16
103
Incident Energy (MeV)
20-Ca-44


MAT 2037
MT= 79 (n,n') Level
Legendre Coefficients
20-Ca-44
X10-7
0
-1
-2
-3
-4
Legendre (CM)
50
100
150
200
104
Incident Energy (MeV)
20-Ca-44
P17
P18
P19
P20
P21
P22
P23
P24


MAT 2037
MT= 80 (n,n') Level
Legendre Coefficients
20-Ca-44
Legendre (CM)
0.5
0.4
0.3
0.2
0.1
0.0
50
100
150
200
105
Incident Energy (MeV)
20-Ca-44
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10


MAT 2037
MT= 80 (n,n') Level
Legendre Coefficients
20-Ca-44
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.020
0.015
0.010
0.005
0.000
Legendre (CM)
50
100
150
200
106
Incident Energy (MeV)
20-Ca-44


MAT 2037
MT= 80 (n,n') Level
Legendre Coefficients
20-Ca-44
X10-5
1.5
1.0
0.5
0.0
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
50
100
150
200
107
Incident Energy (MeV)
20-Ca-44