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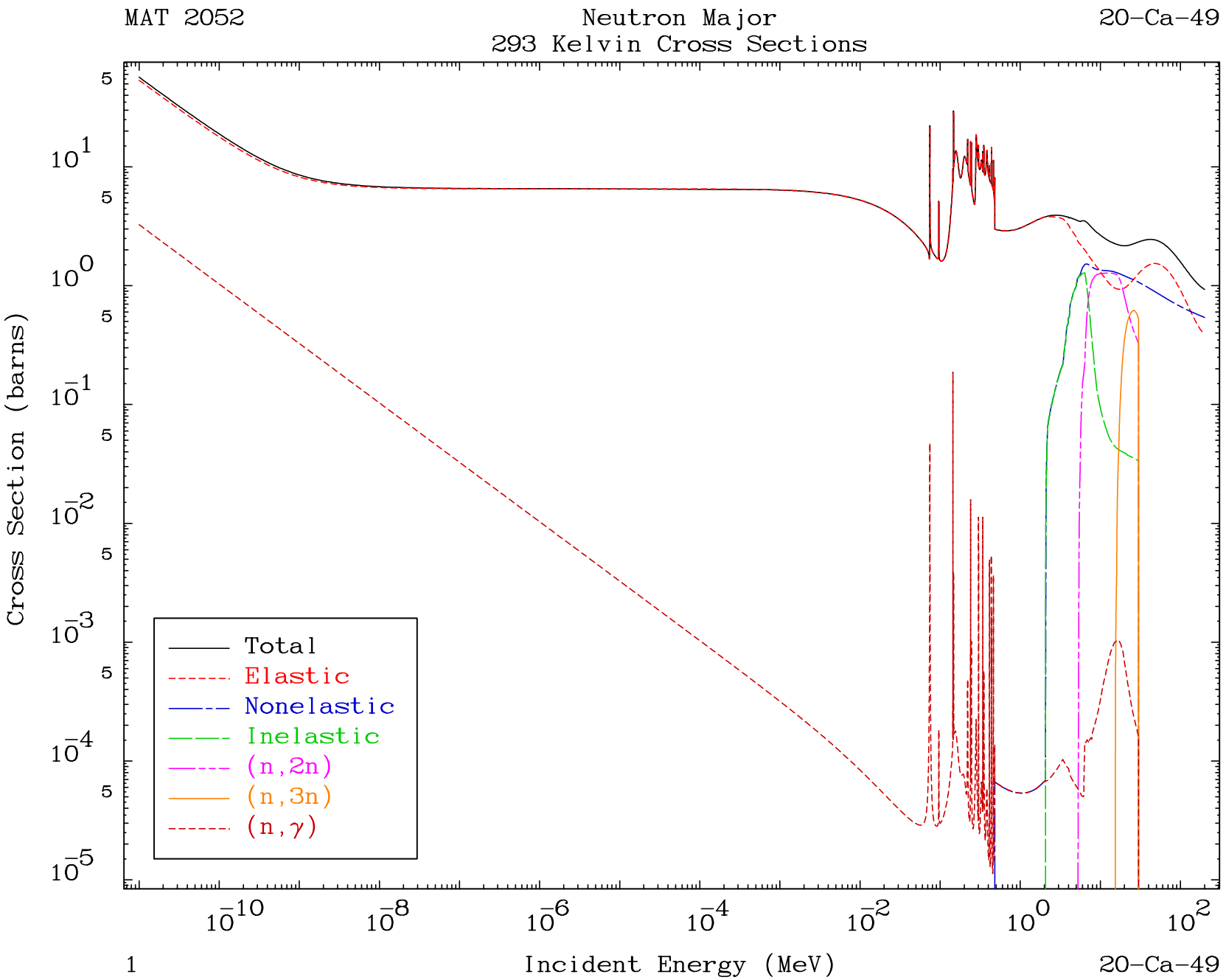
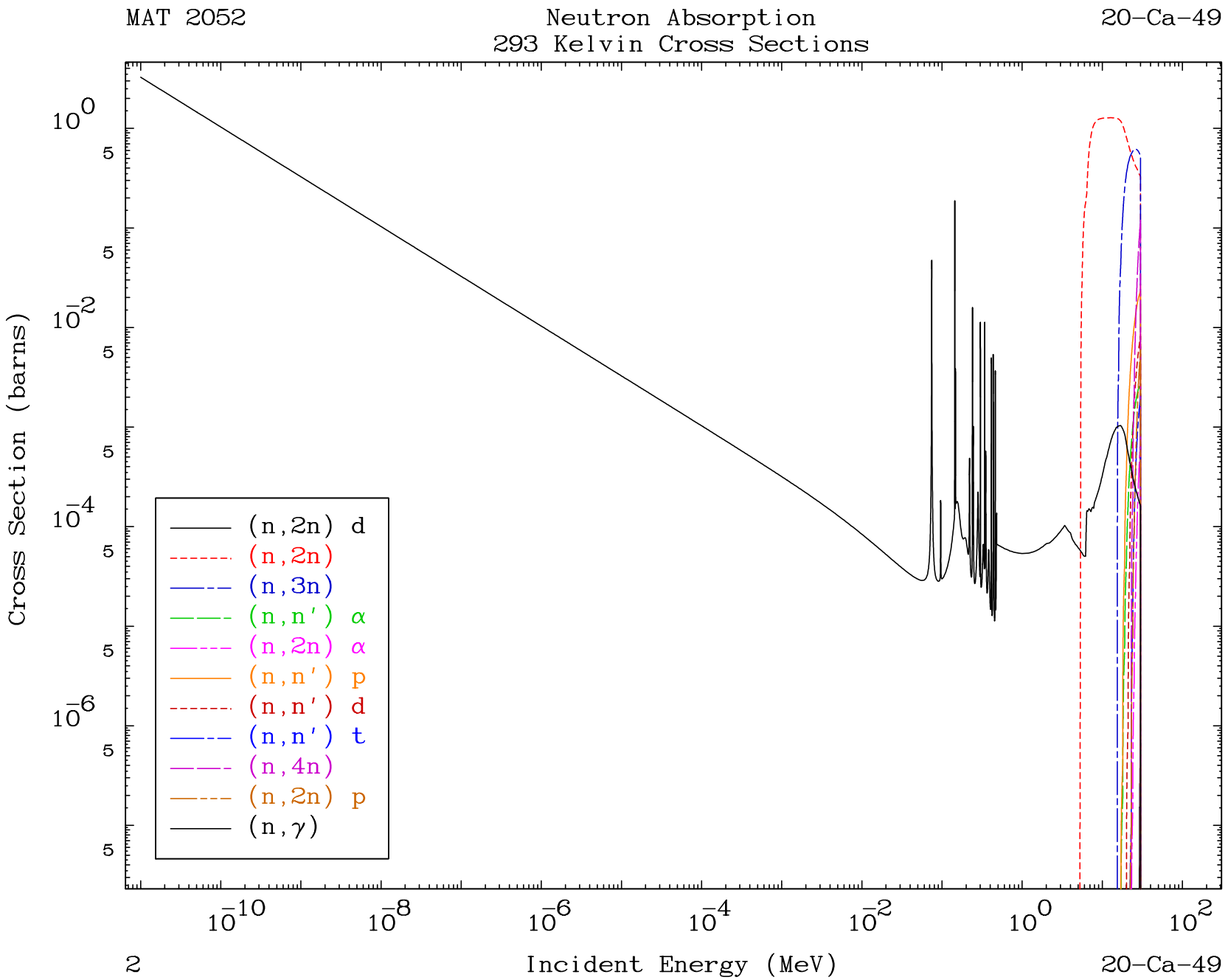
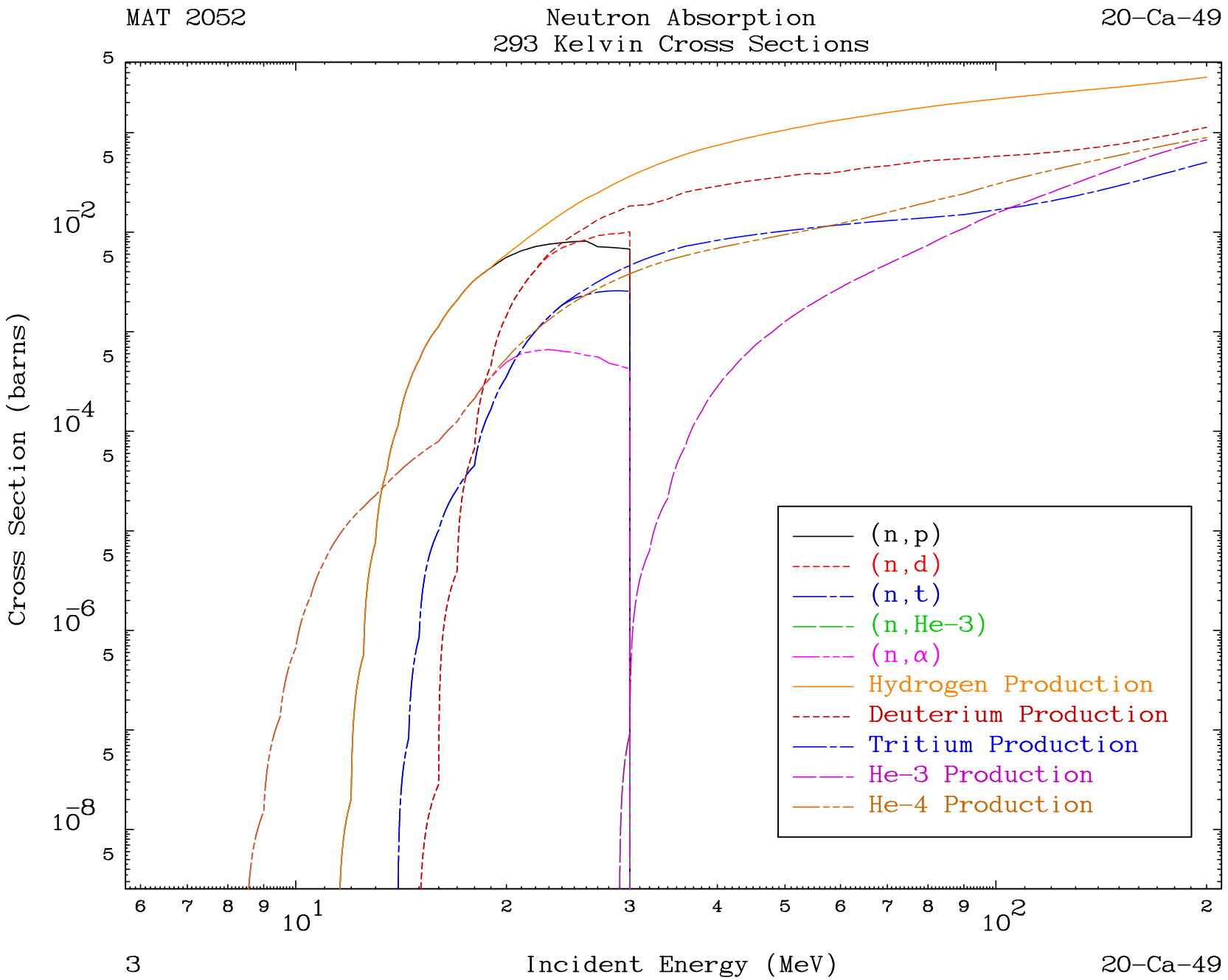
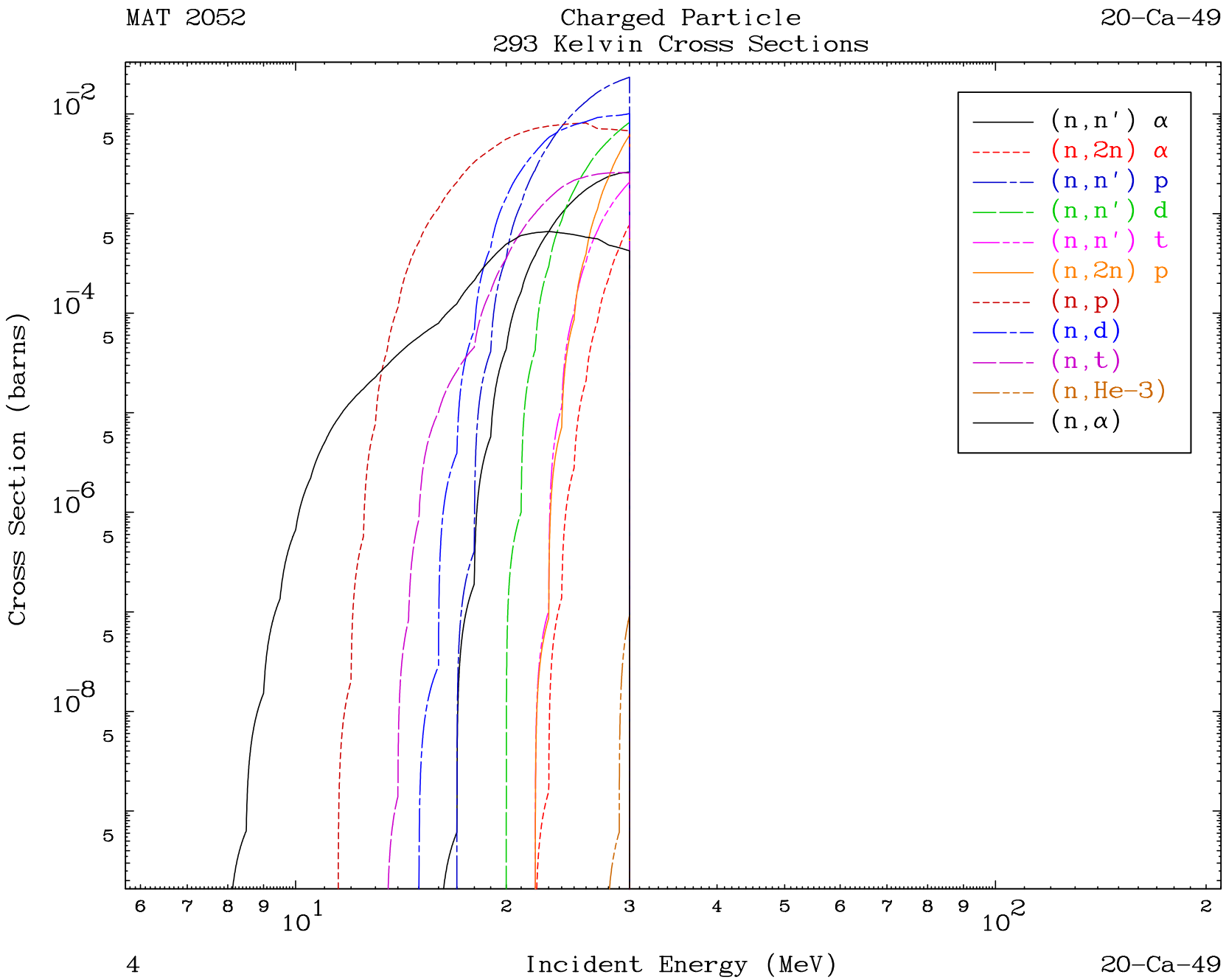
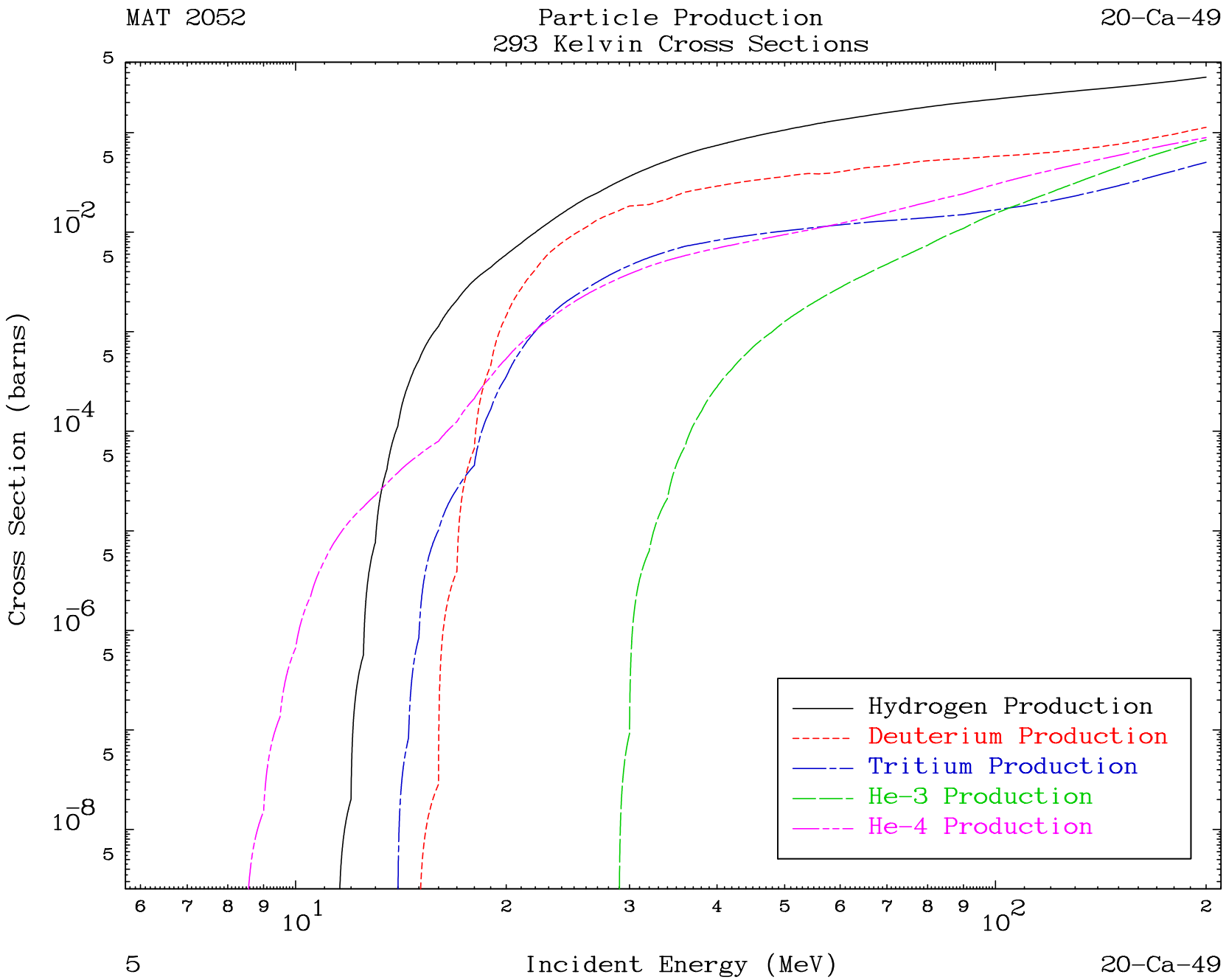
Press Mouse Button to Start

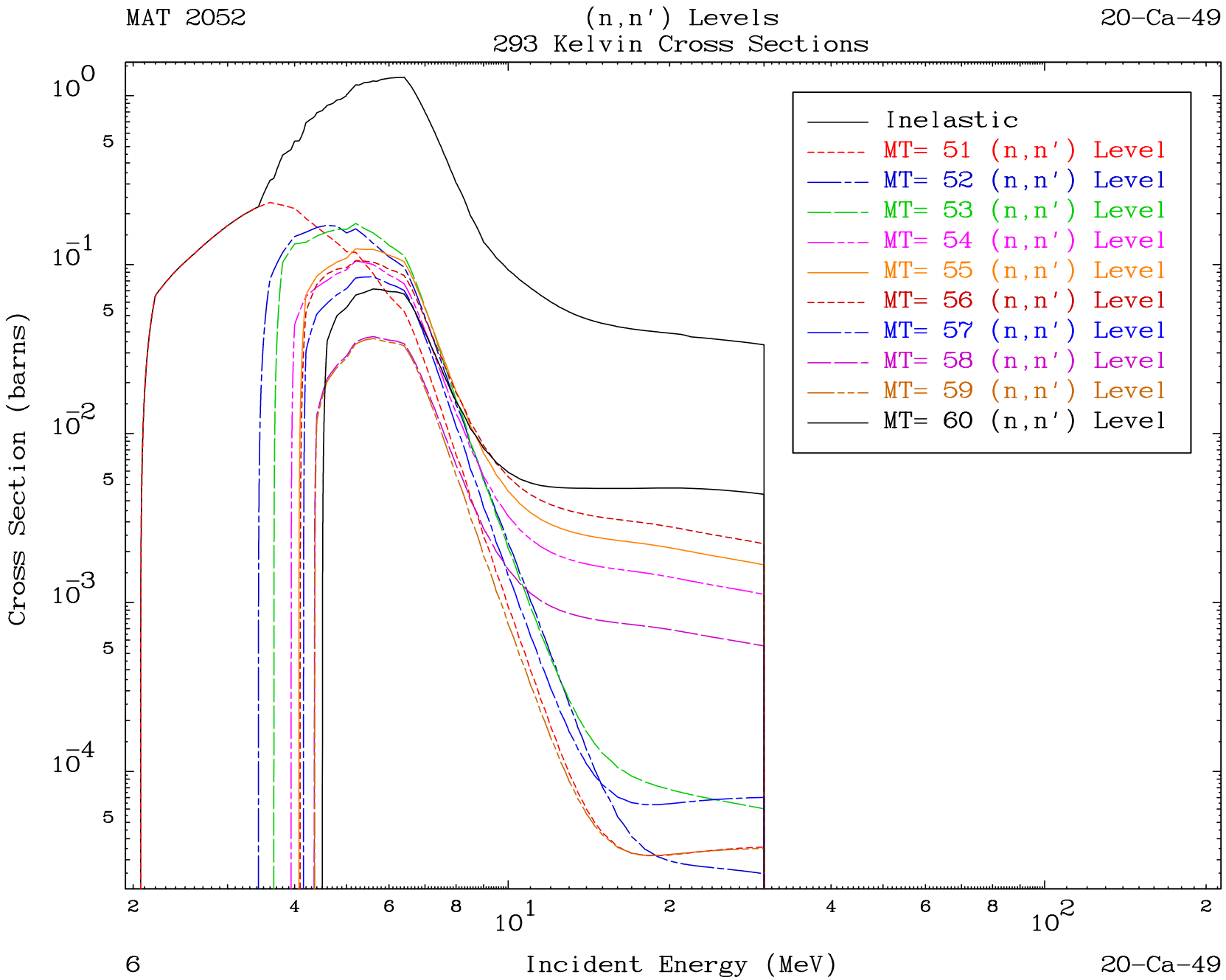

MAT 2052
Neutron Major
20-Ca-49
293 Kelvin Cross Sections
Cross Section (barns)
Incident Energy (MeV)
1
20-Ca-49
Total
Elastic
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)

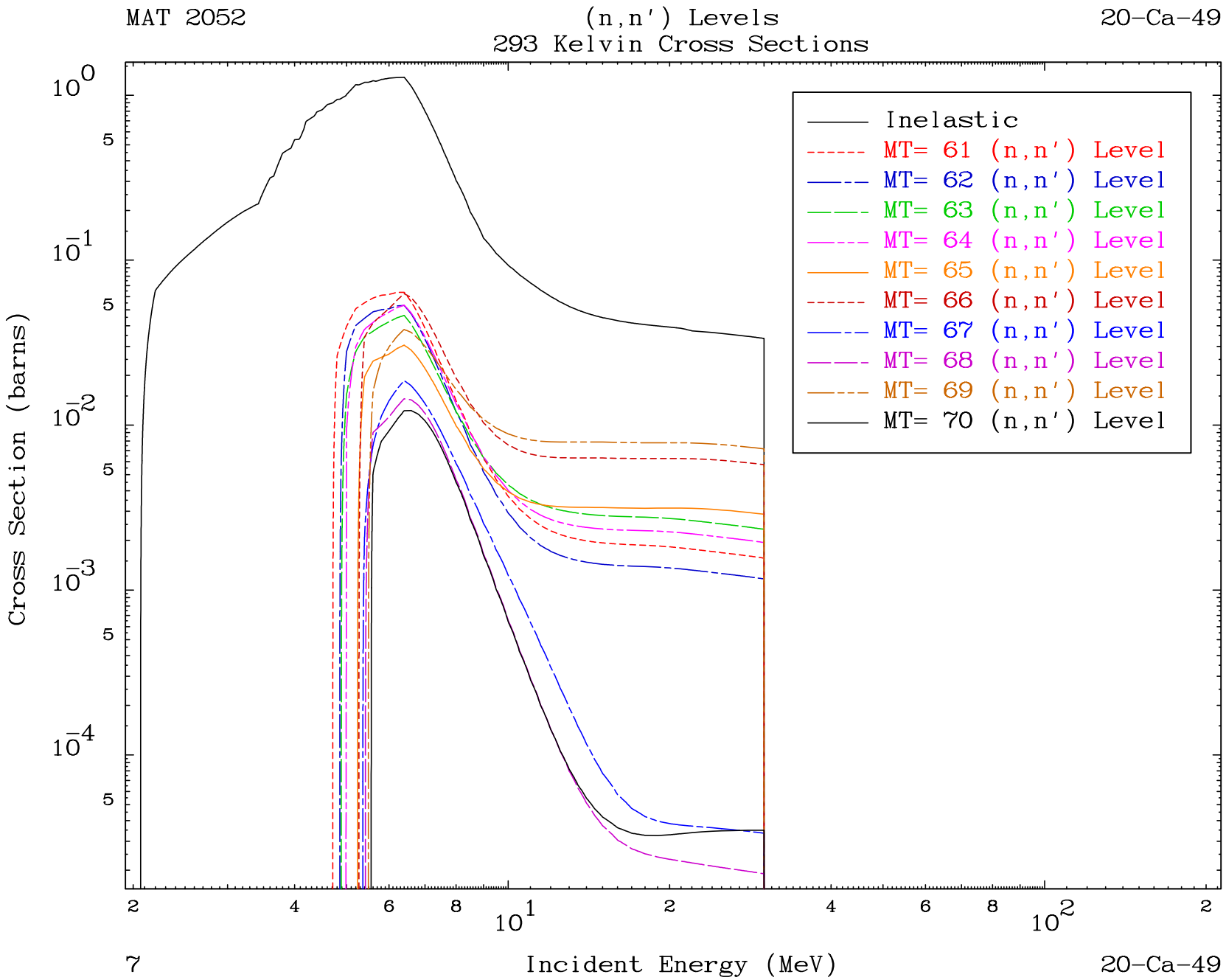

MAT 2052
Neutron Absorption
293 Kelvin Cross Sections
20-Ca-49
Cross Section (barns)
Incident Energy (MeV)
2
20-Ca-49
(n,2n) d
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,n') p
(n,n') d
(n,n') t
(n,4n)
(n,2n) p
(n,γ)

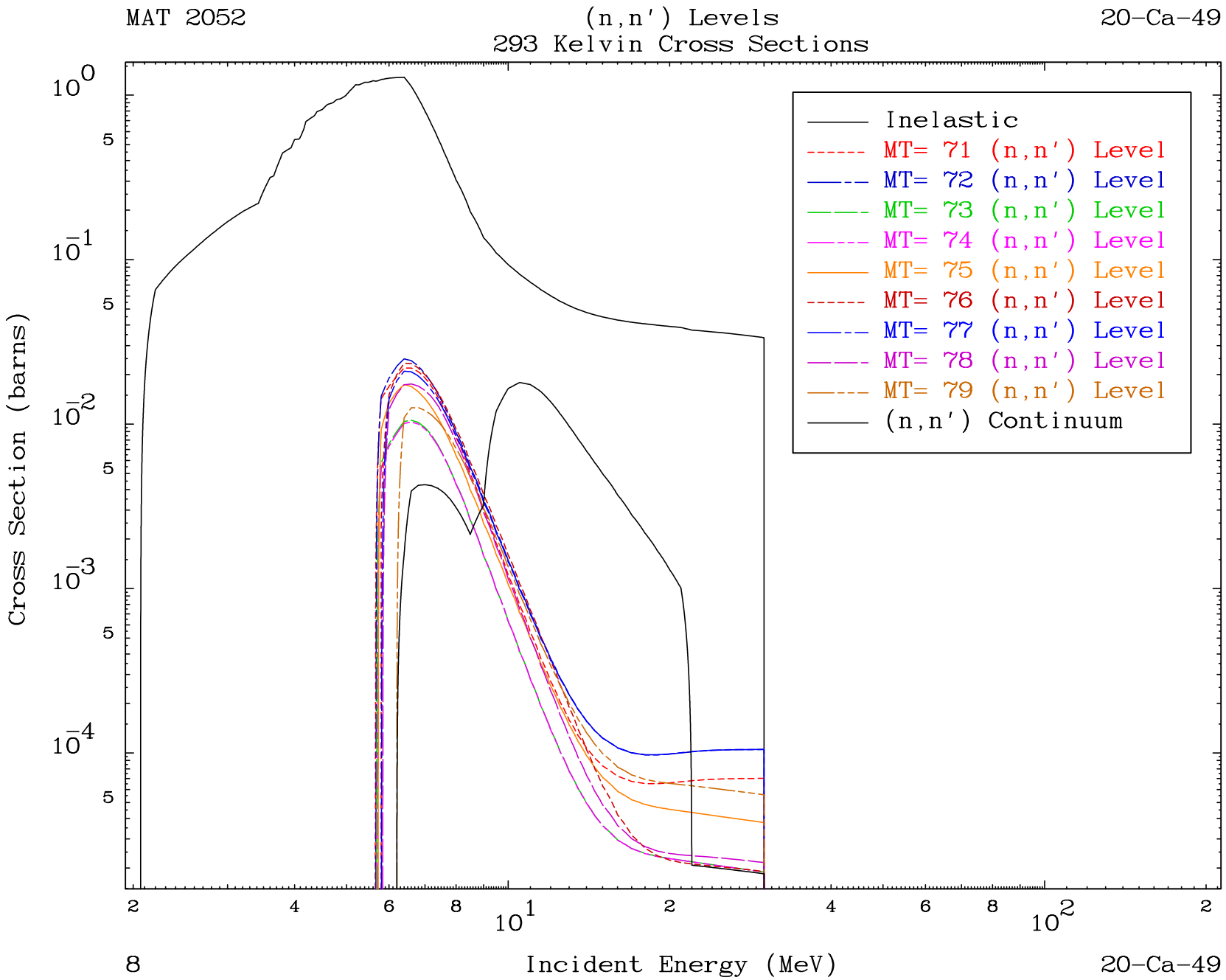

MAT 2052
Neutron Absorption
293 Kelvin Cross Sections
20-Ca-49
Cross Section (barns)
Incident Energy (MeV)
3
20-Ca-49
(n,p)
(n,d)
(n,t)
(n,He-3)
(n,α)
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production

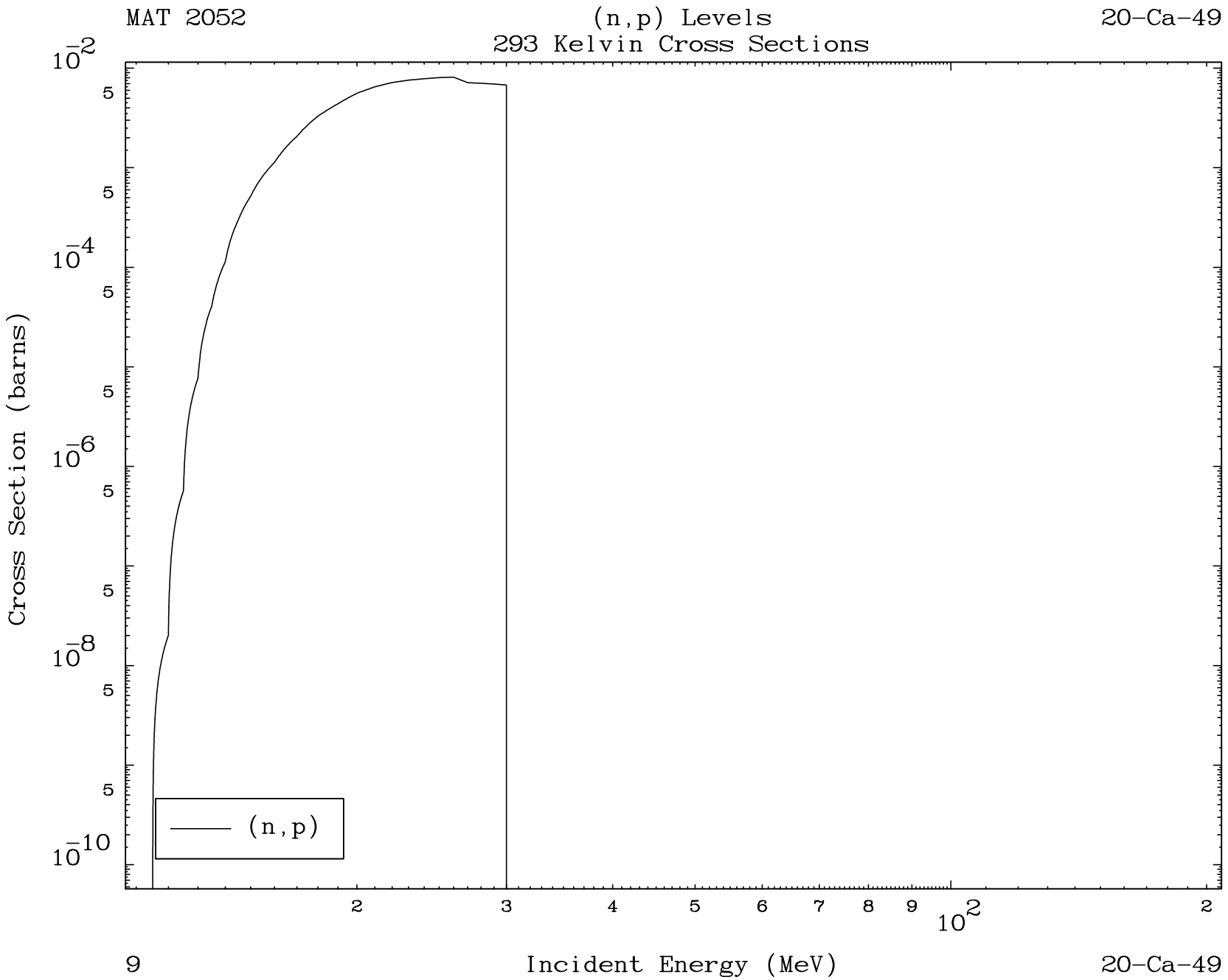

MAT 2052
Charged Particle
293 Kelvin Cross Sections
20-Ca-49
Cross Section (barns)
Incident Energy (MeV)
(n,n') α
(n,2n) α
(n,n') p
(n,n') d
(n,n') t
(n,2n) p
(n,p)
(n,d)
(n,t)
(n,He-3)
(n,α)
4
20-Ca-49

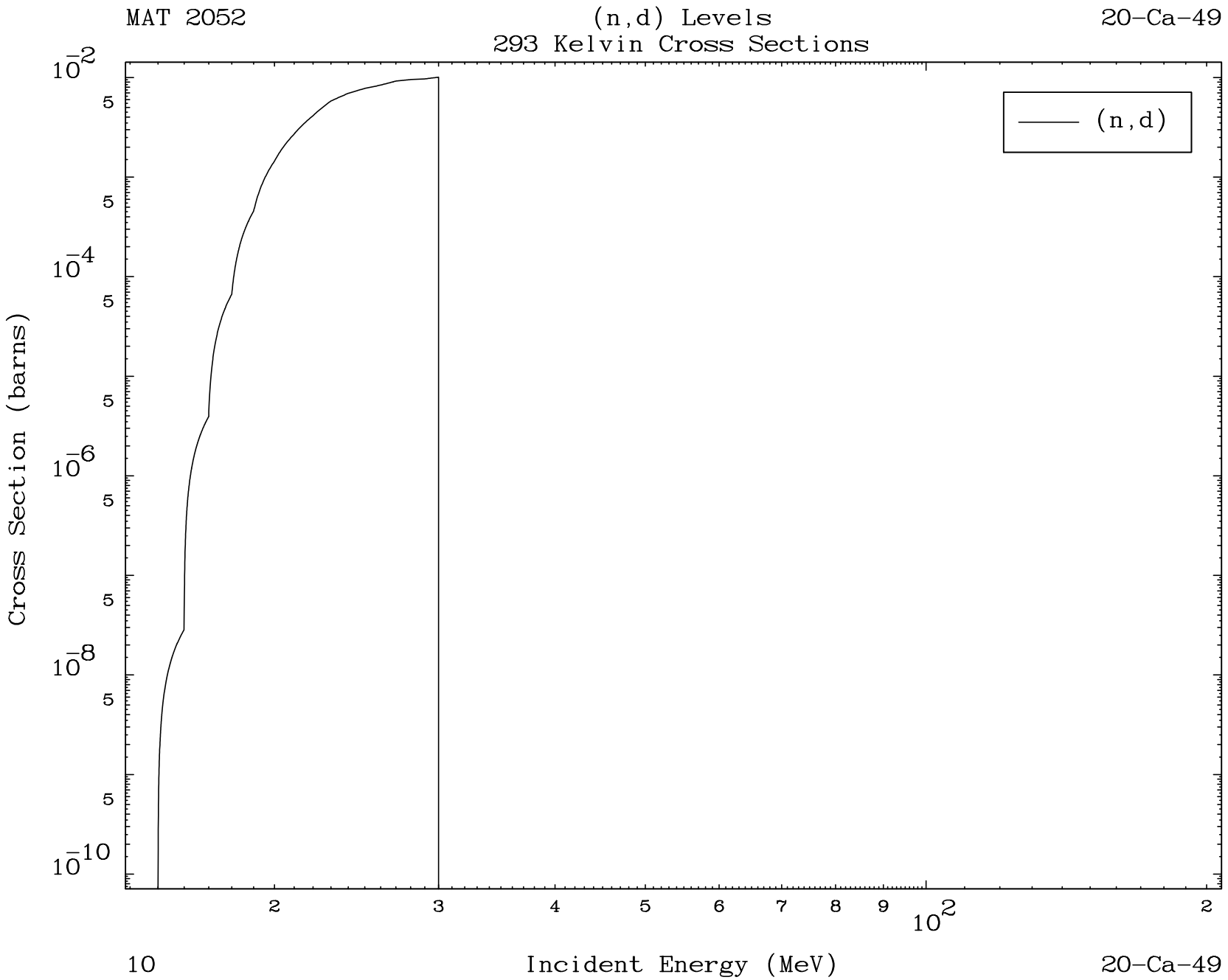

MAT 2052
Particle Production
293 Kelvin Cross Sections
20-Ca-49
Cross Section (barns)
Incident Energy (MeV)
20-Ca-49
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production

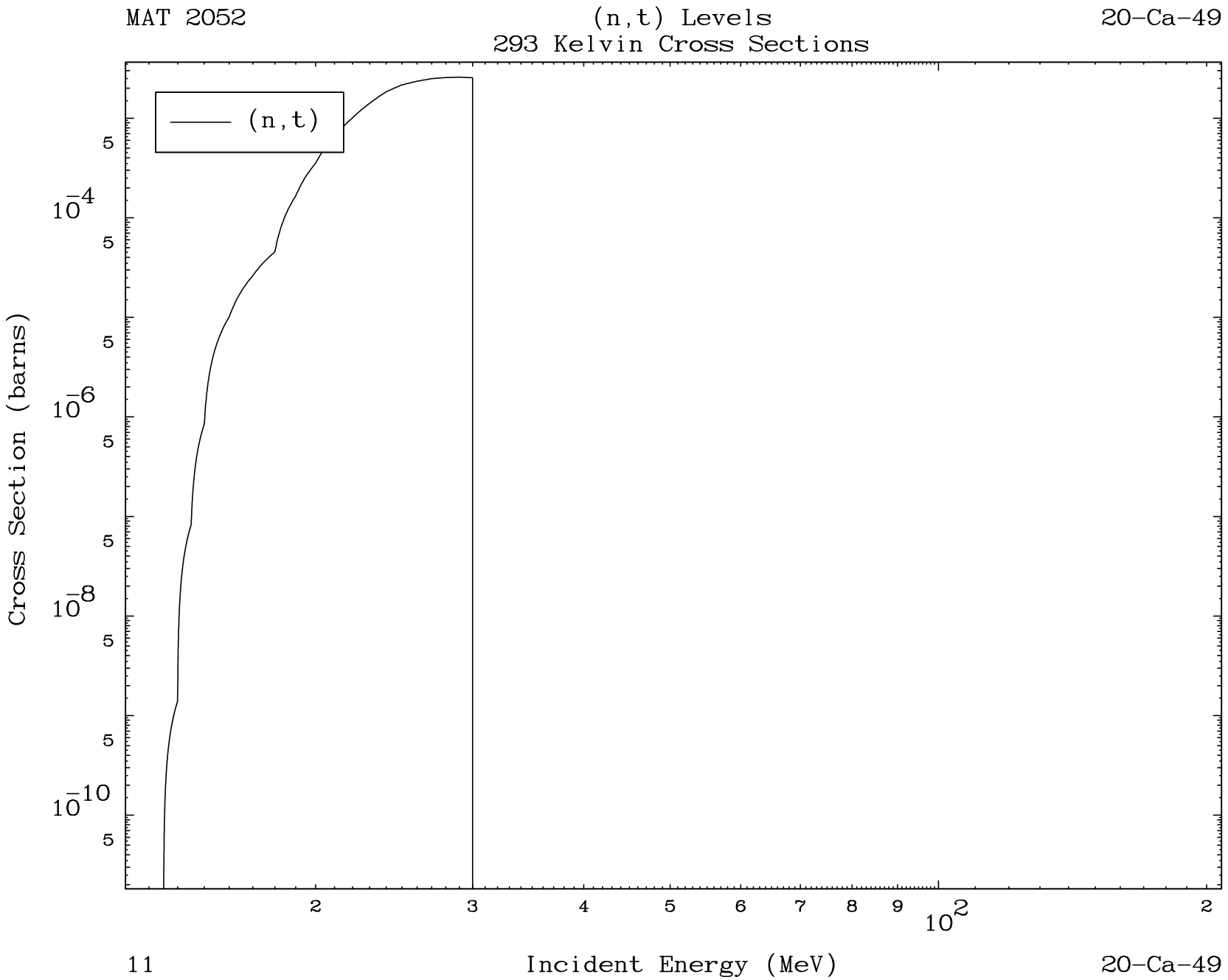

MAT 2052
(n,n') Levels
293 Kelvin Cross Sections
20-Ca-49
Cross Section (barns)
Incident Energy (MeV)
Inelastic
MT= 51 (n,n') Level
MT= 52 (n,n') Level
MT= 53 (n,n') Level
MT= 54 (n,n') Level
MT= 55 (n,n') Level
MT= 56 (n,n') Level
MT= 57 (n,n') Level
MT= 58 (n,n') Level
MT= 59 (n,n') Level
MT= 60 (n,n') Level
6
20-Ca-49

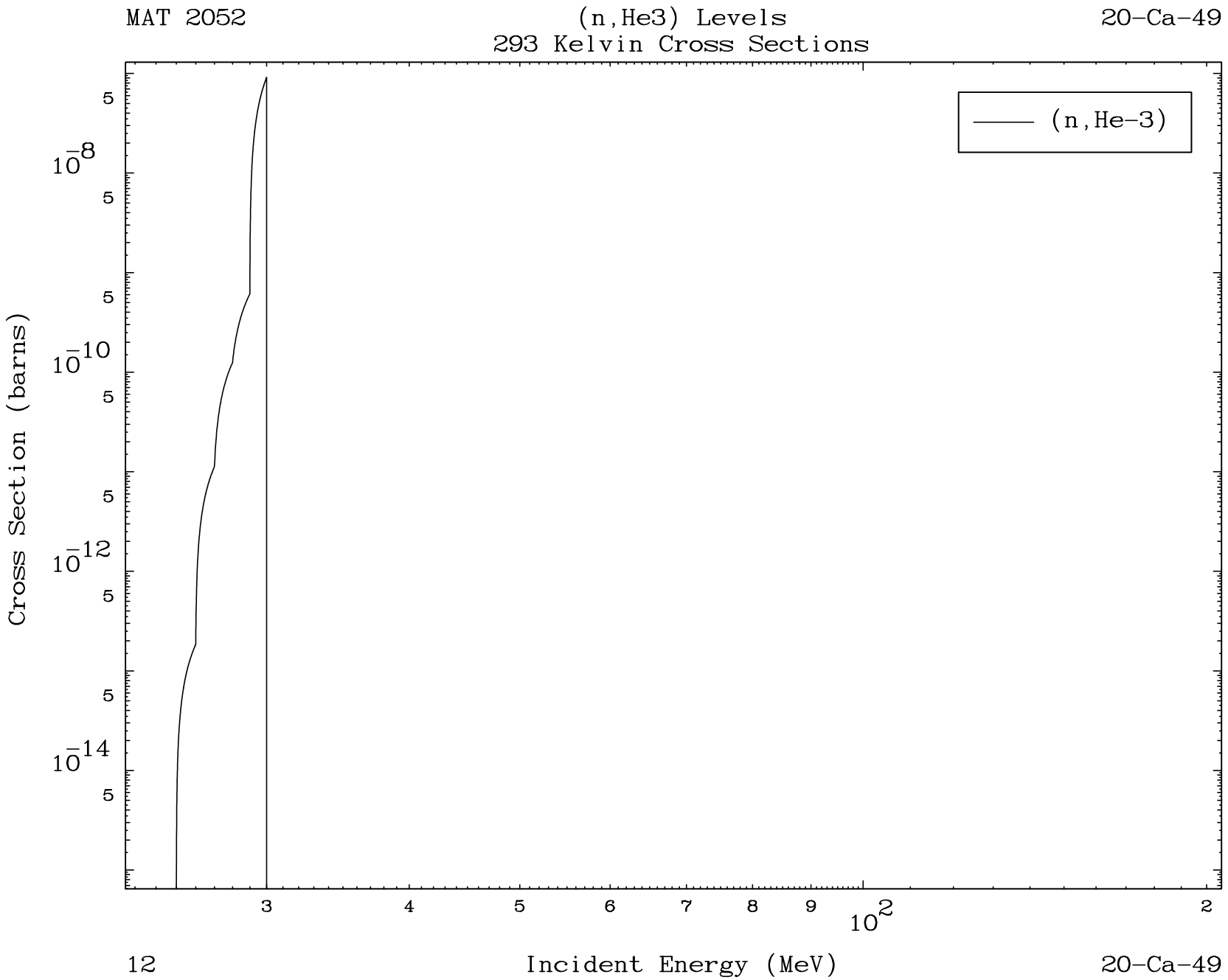

MAT 2052
(n,n') Levels
293 Kelvin Cross Sections
20-Ca-49
Cross Section (barns)
Incident Energy (MeV)
Inelastic
MT= 61 (n,n') Level
MT= 62 (n,n') Level
MT= 63 (n,n') Level
MT= 64 (n,n') Level
MT= 65 (n,n') Level
MT= 66 (n,n') Level
MT= 67 (n,n') Level
MT= 68 (n,n') Level
MT= 69 (n,n') Level
MT= 70 (n,n') Level
7
20-Ca-49


MAT 2052
(n,n') Levels
293 Kelvin Cross Sections
20-Ca-49
Cross Section (barns)
Incident Energy (MeV)
20-Ca-49
Inelastic
MT= 71 (n,n') Level
MT= 72 (n,n') Level
MT= 73 (n,n') Level
MT= 74 (n,n') Level
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
(n,n') Continuum

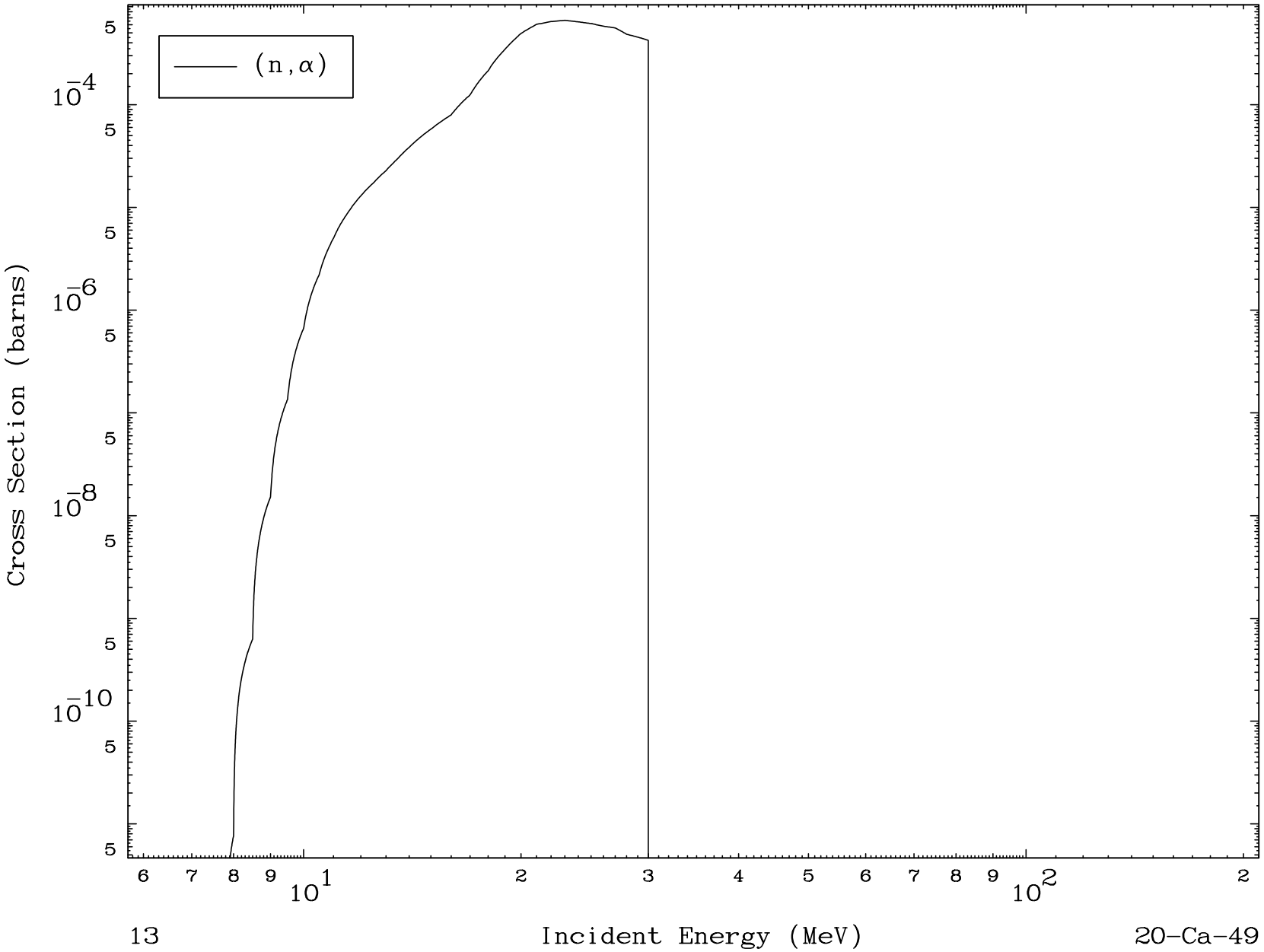

MAT 2052
(n,p) Levels
20-Ca-49
293 Kelvin Cross Sections
Cross Section (barns)
10-2
5
10-4
5
10-6
5
10-8
5
10-10
5
(n,p)
2
3
4
5
6
7
8
9
10 2
2
9
Incident Energy (MeV)
20-Ca-49

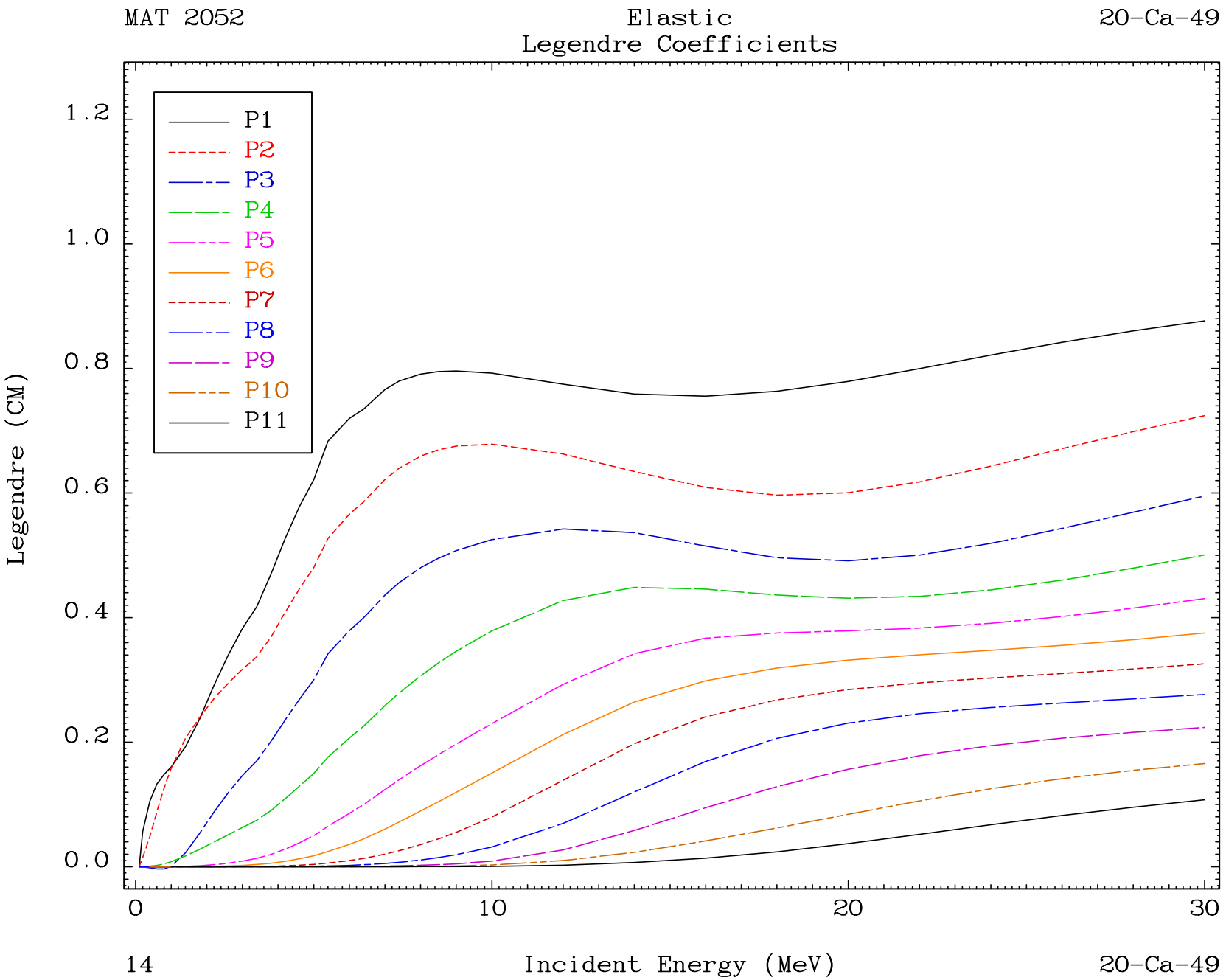

MAT 2052
(n,d) Levels
20-Ca-49
293 Kelvin Cross Sections
(n,d)
Cross Section (barns)
Incident Energy (MeV)
20-Ca-49
10
2
3
4
5
6
7
8
9
2

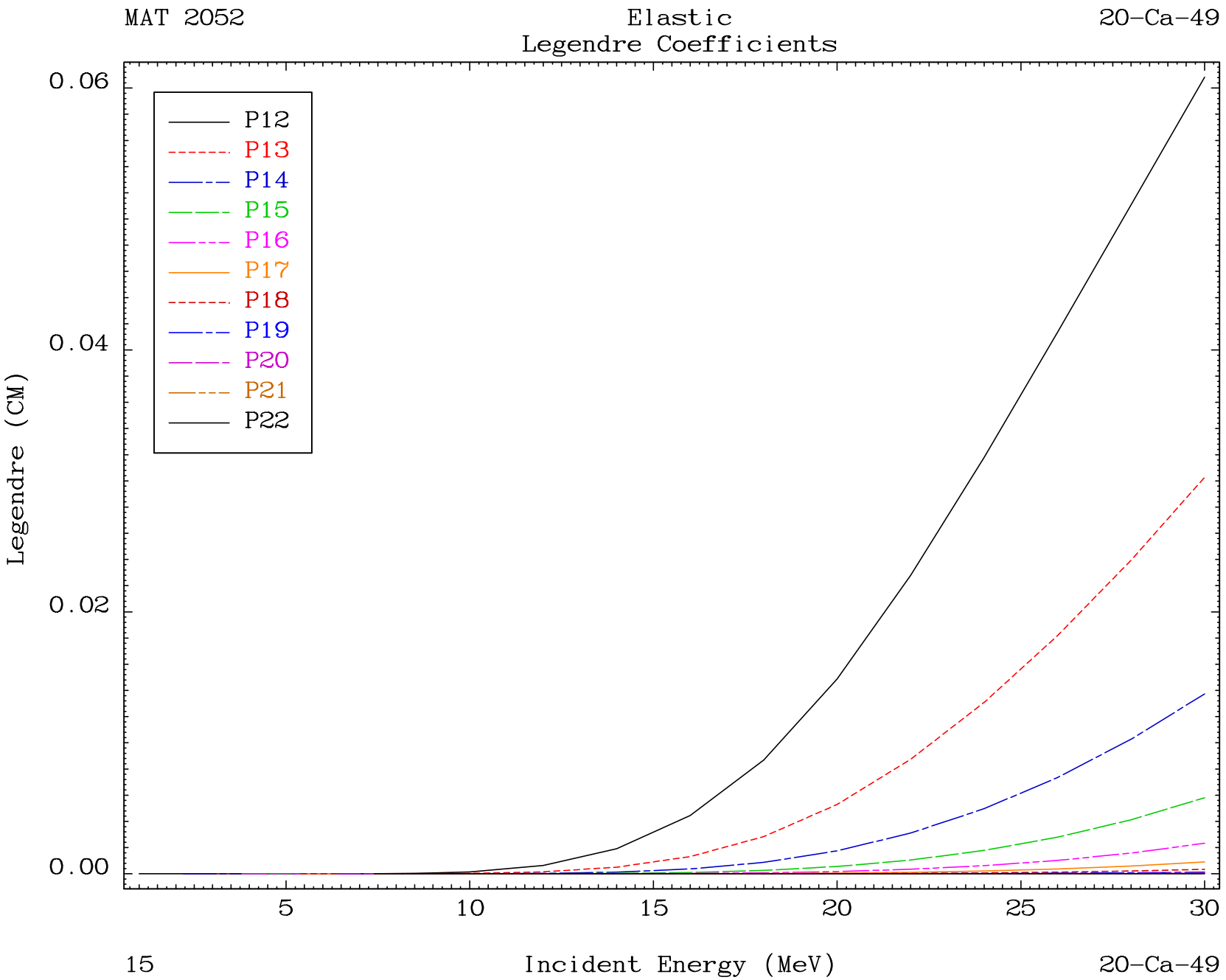

MAT 2052
(n,t) Levels
20-Ca-49
293 Kelvin Cross Sections
(n,t)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
2
3
4
5
6
7
8
9
10^2
2
11
Incident Energy (MeV)
20-Ca-49

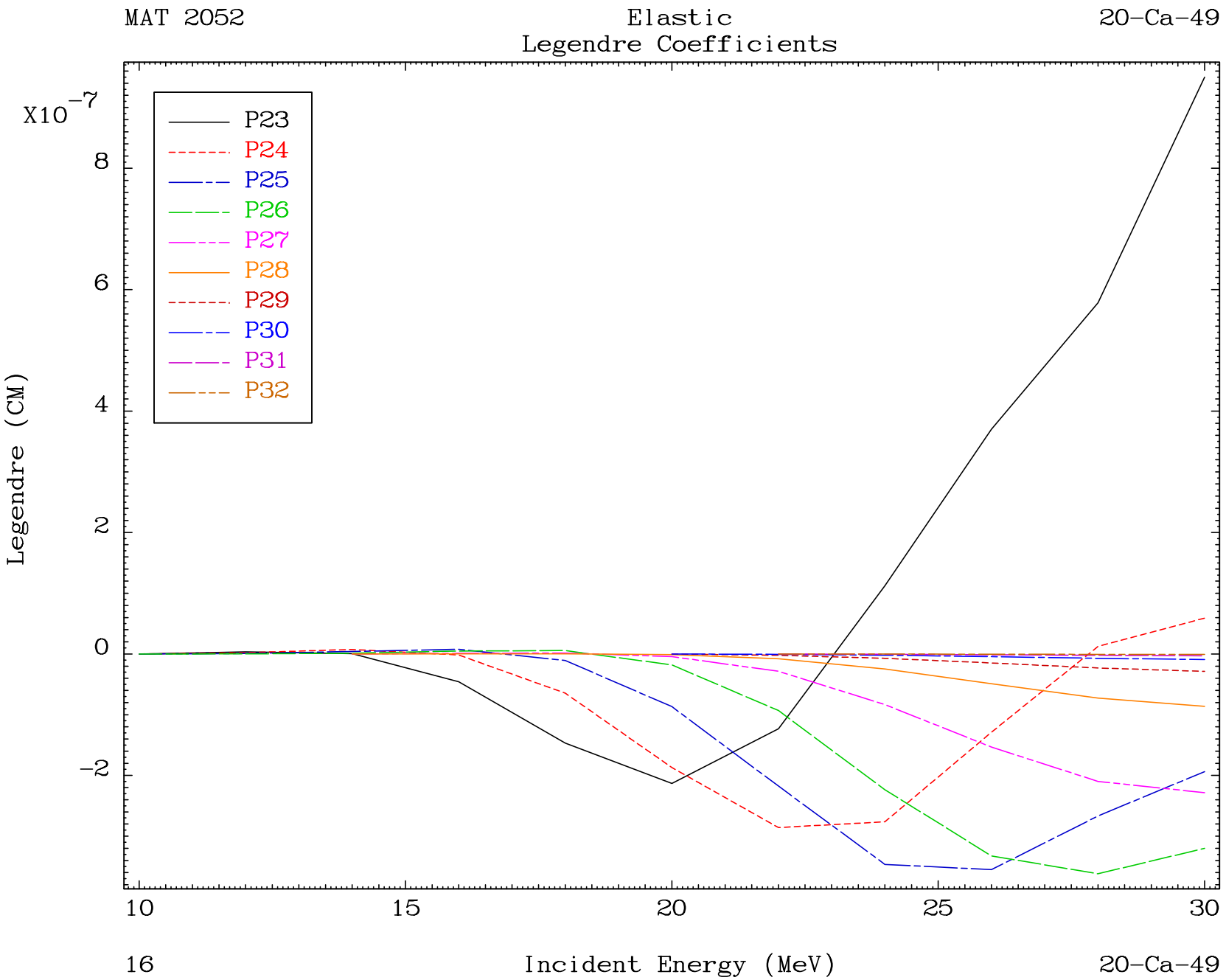

MAT 2052
(n,He3) Levels
20-Ca-49
293 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
10-8
10-10
10-12
10-14
5
3
4
5
6
7
8
9
10 2
2
12
Incident Energy (MeV)
20-Ca-49

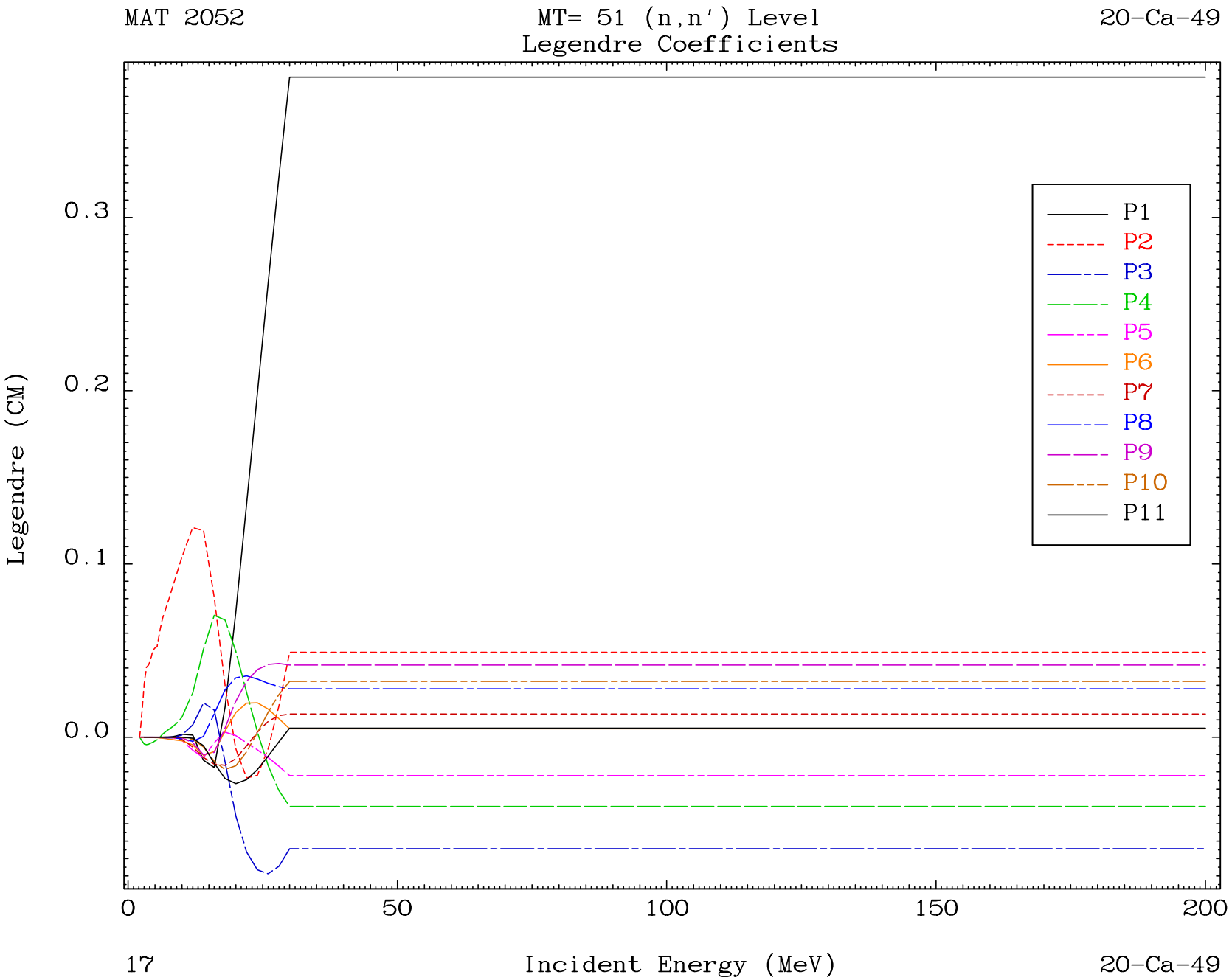
293 Kelvin Cross Sections

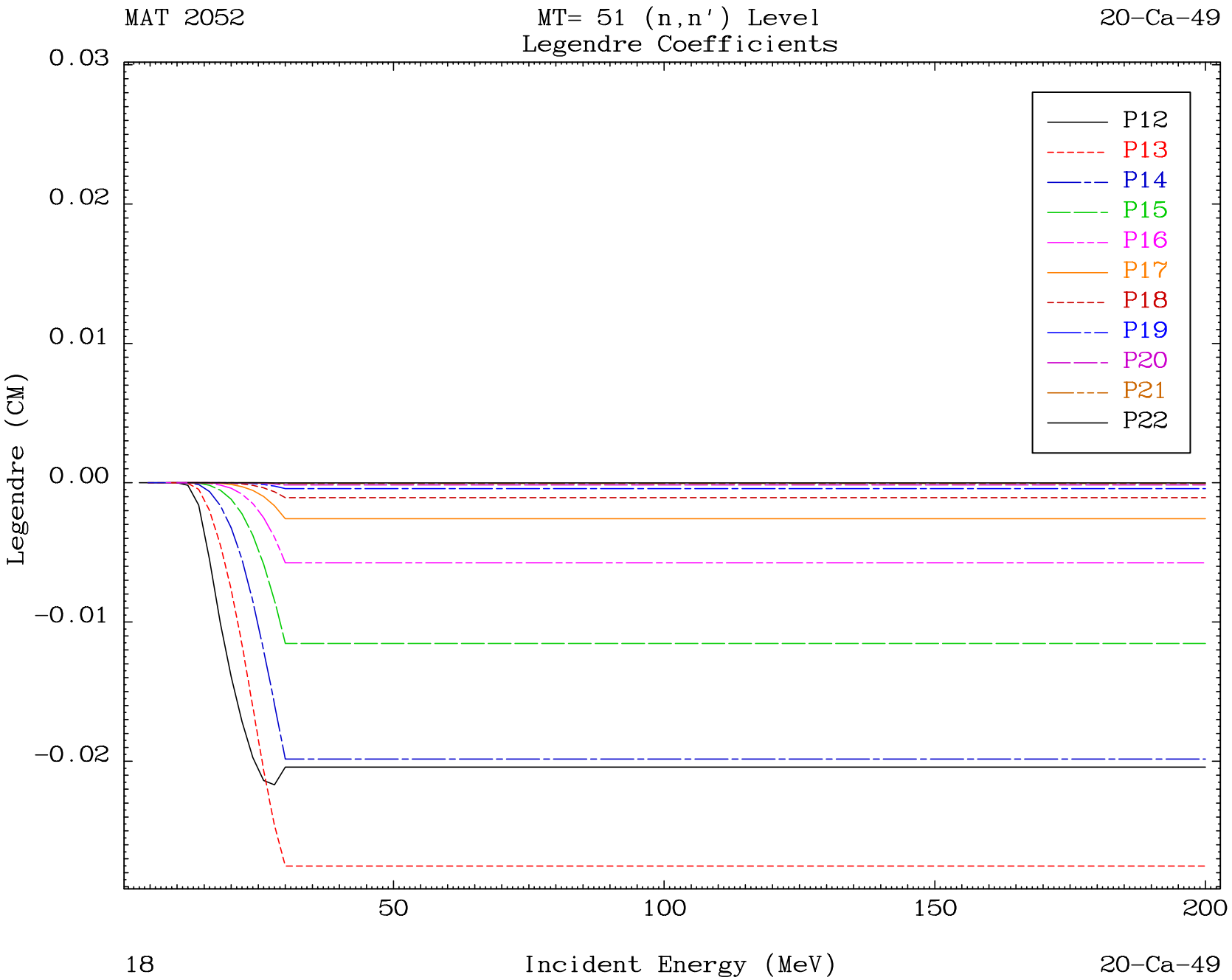


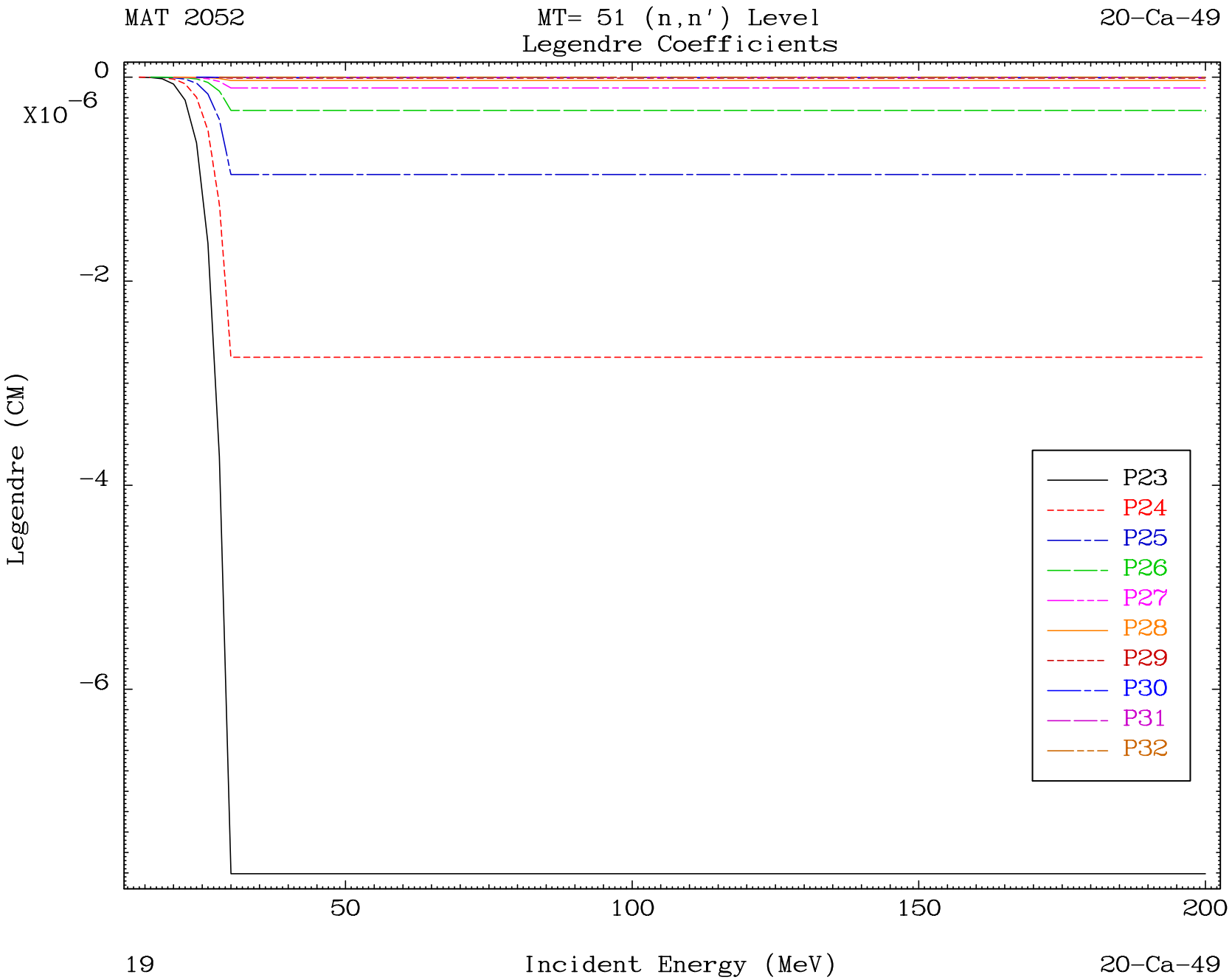

MAT 2052
Elastic
Legendre Coefficients
20-Ca-49
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11
Legendre (CM)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
14
Incident Energy (MeV)
20-Ca-49

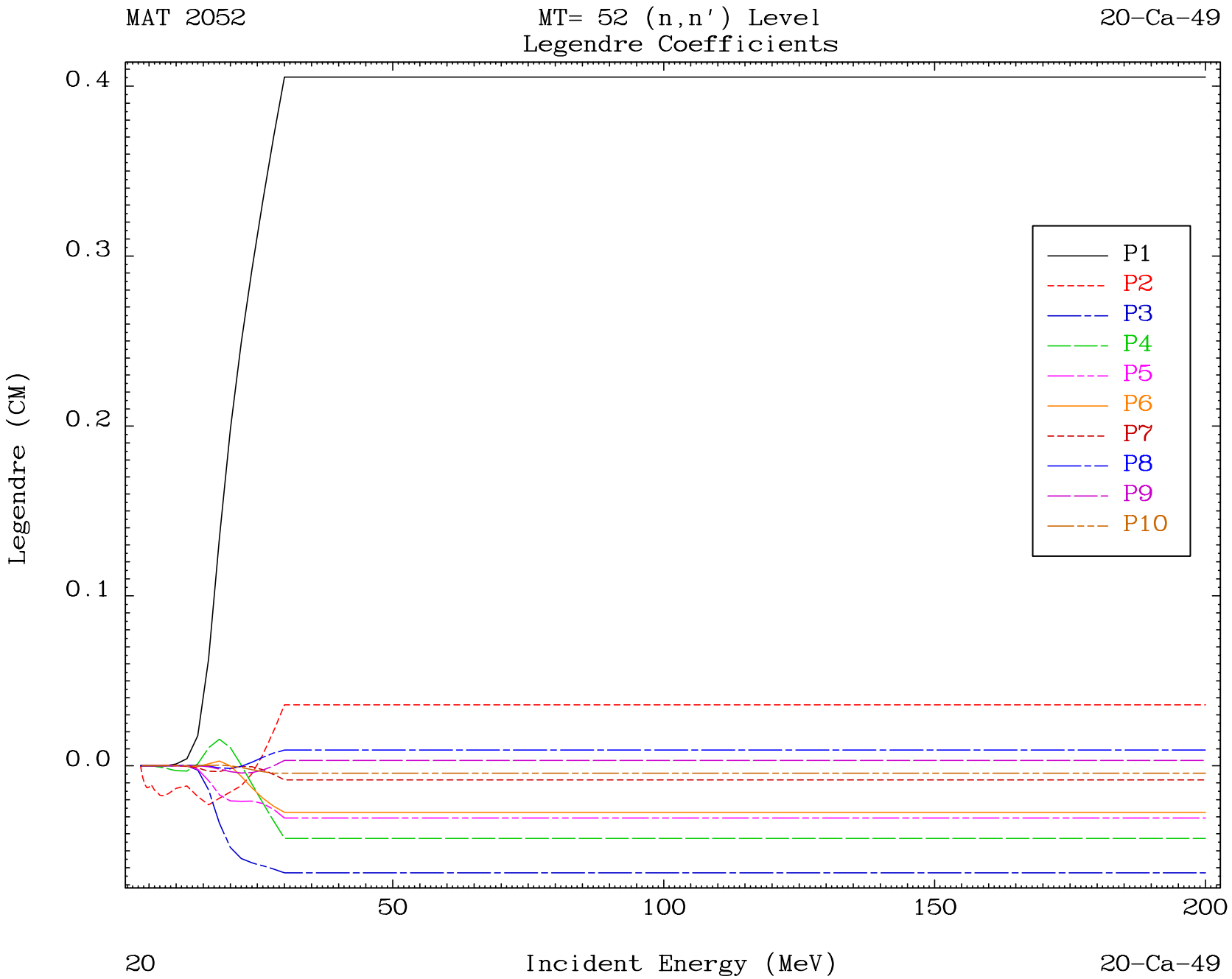

MAT 2052
Elastic
Legendre Coefficients
20-Ca-49
P12
P13
P14
P15
P16
P17
P18
P19
P20
P21
P22
0.06
0.04
0.02
0.00
Legendre (CM)
5
10
15
20
25
30
15
Incident Energy (MeV)
20-Ca-49

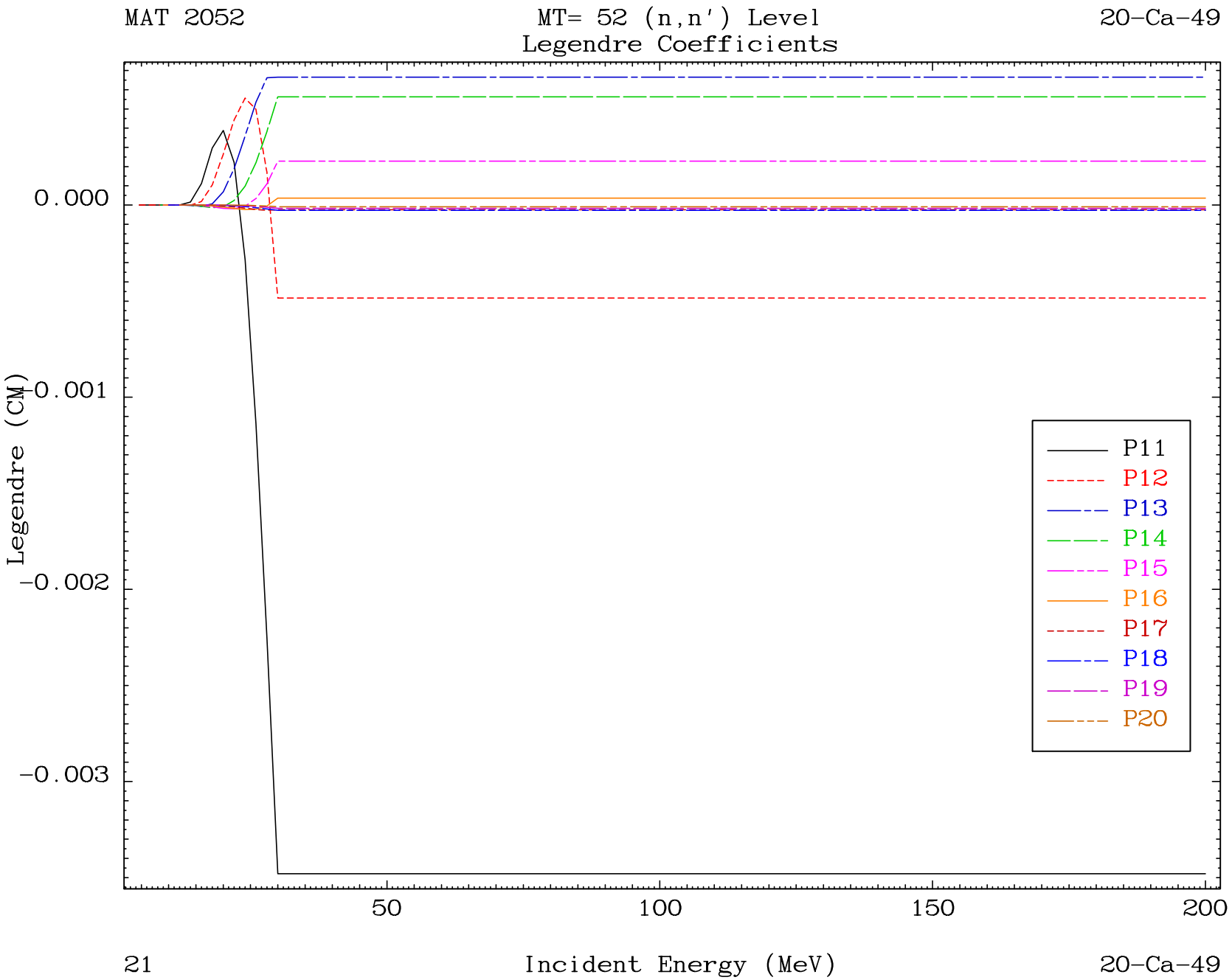

MAT 2052
Elastic
Legendre Coefficients
20-Ca-49
X10-7
8
6
4
2
0
-2
Legendre (CM)
P23
P24
P25
P26
P27
P28
P29
P30
P31
P32
10
15
20
25
30
16
Incident Energy (MeV)
20-Ca-49

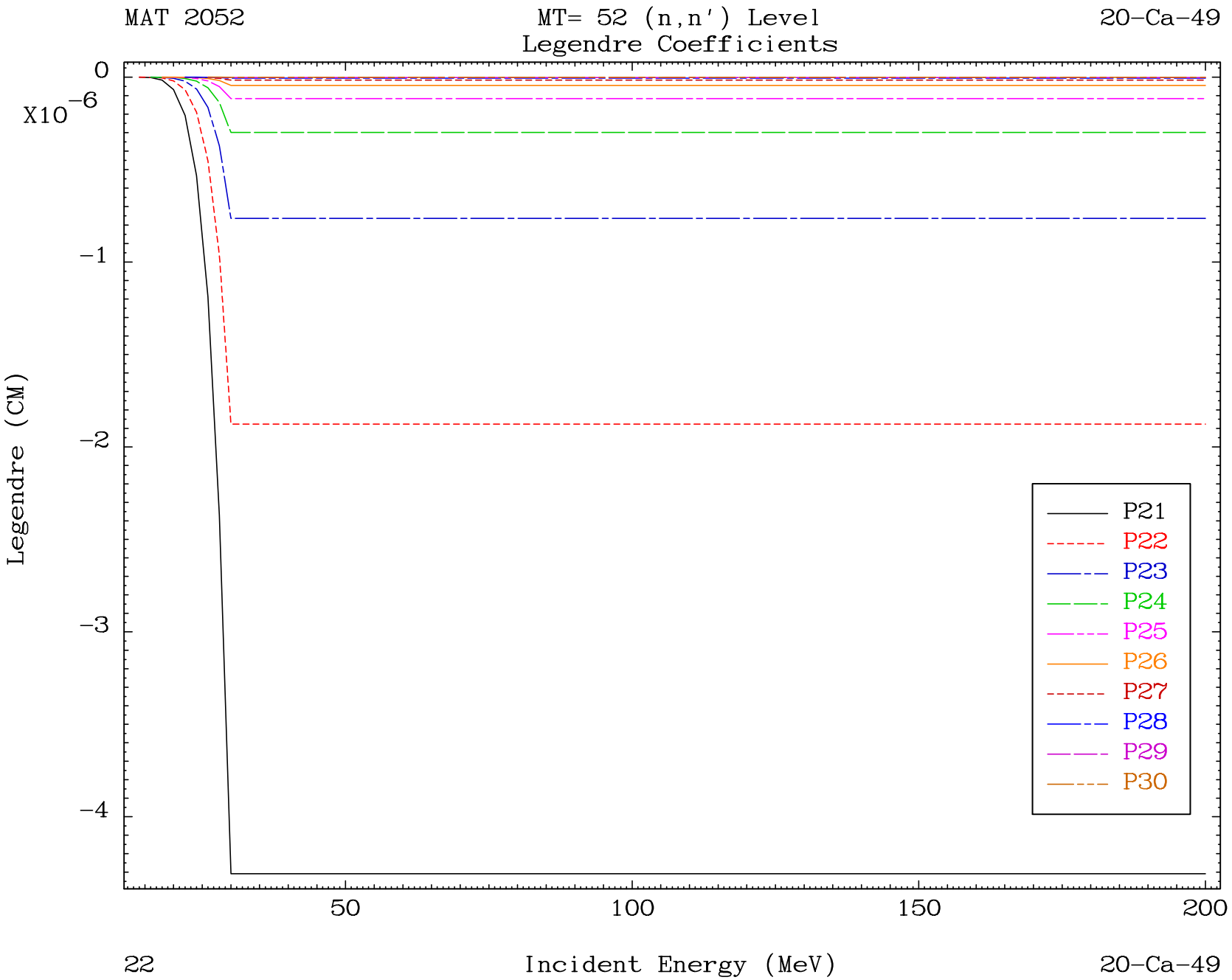

MAT 2052
MT= 51 (n,n') Level
Legendre Coefficients
20-Ca-49
Legendre (CM)
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11
17
Incident Energy (MeV)
20-Ca-49

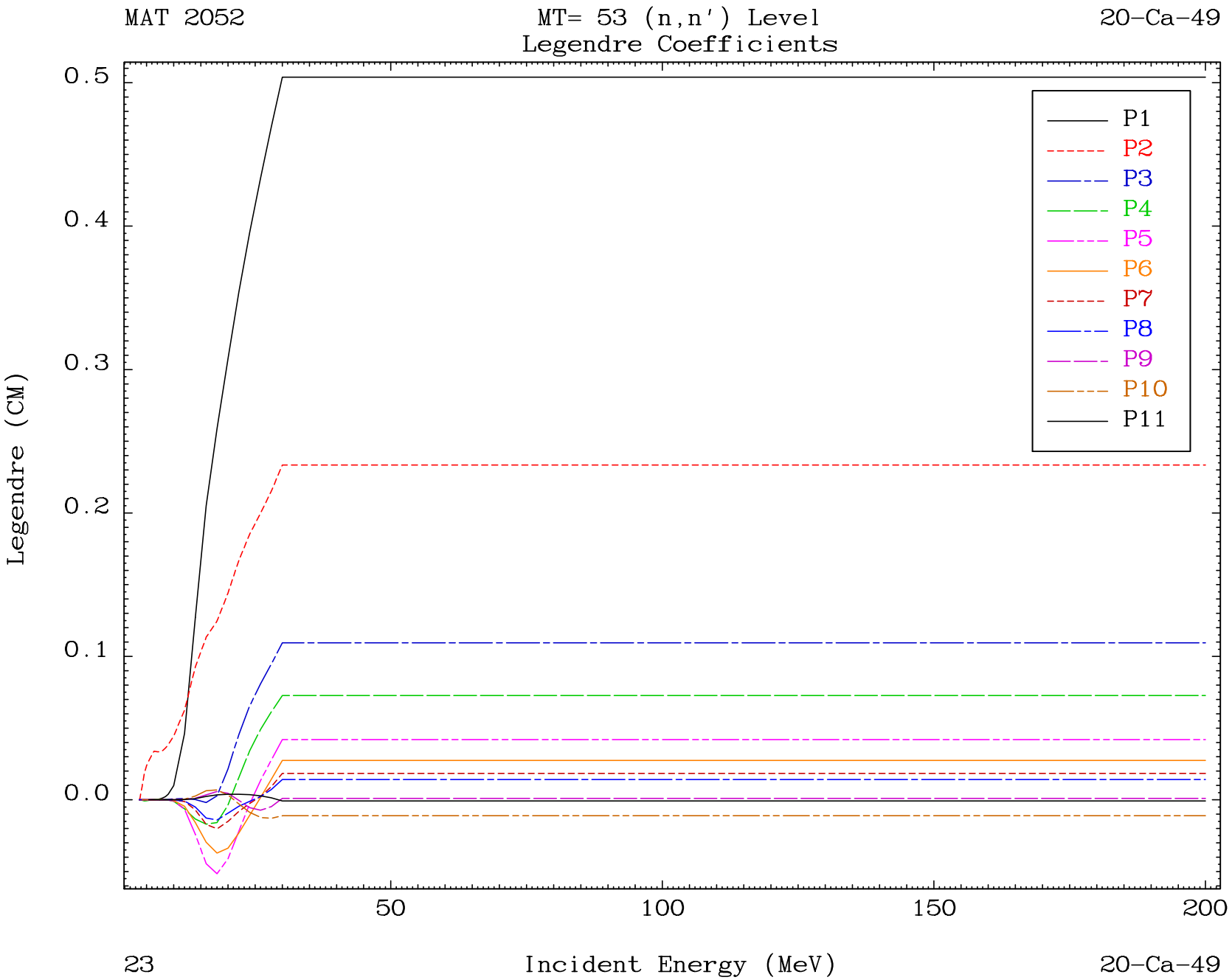

MAT 2052
MT= 51 (n,n') Level
Legendre Coefficients
20-Ca-49
0.03
0.02
0.01
0.00
-0.01
-0.02
Legendre (CM)
P12
P13
P14
P15
P16
P17
P18
P19
P20
P21
P22
50
100
150
200
18
Incident Energy (MeV)
20-Ca-49

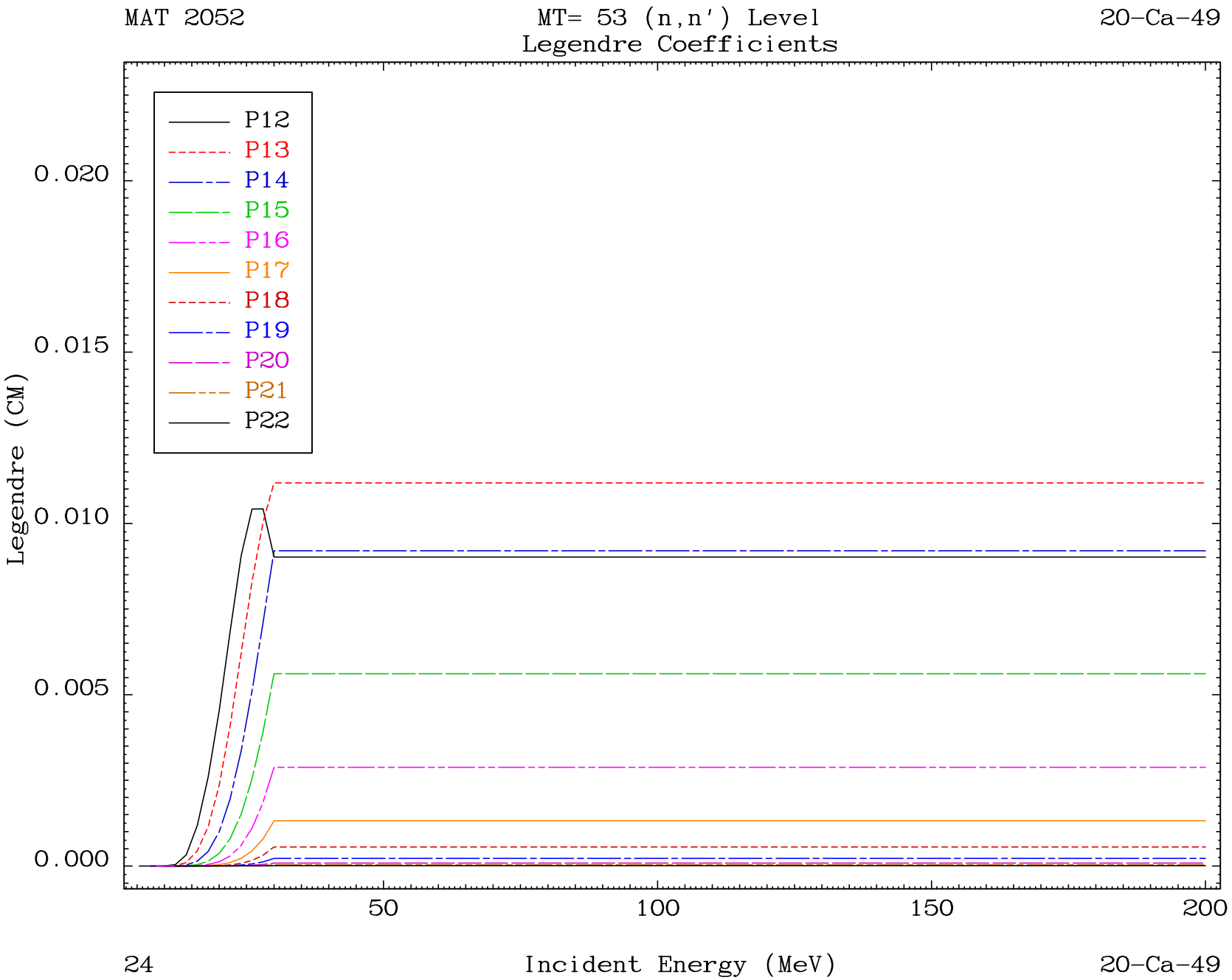

MAT 2052
MT= 51 (n,n') Level
Legendre Coefficients
20-Ca-49
0
X10^-6
-2
-4
-6
Legendre (CM)
50
100
150
200
P23
P24
P25
P26
P27
P28
P29
P30
P31
P32
19
Incident Energy (MeV)
20-Ca-49

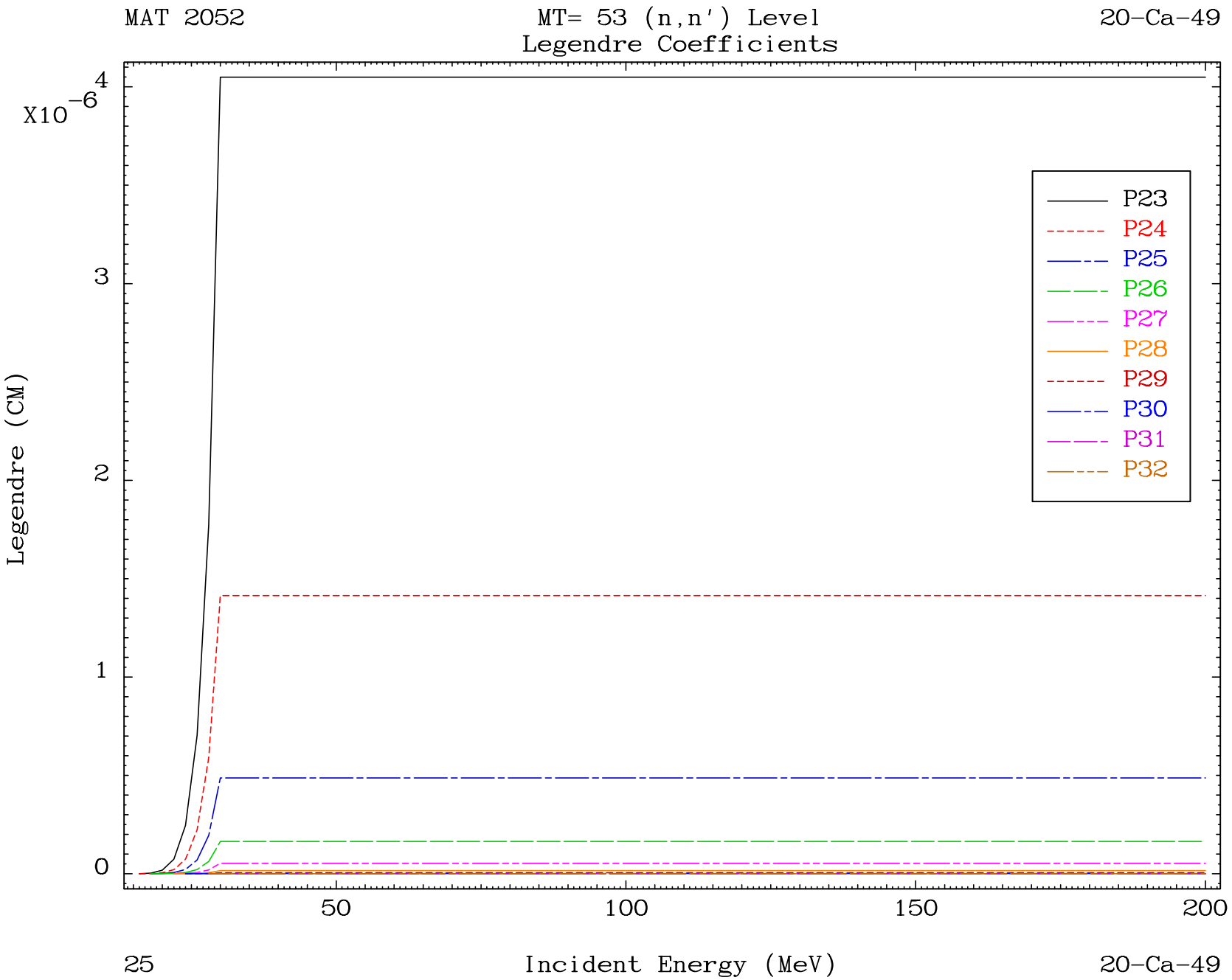

MAT 2052
MT= 52 (n,n') Level
Legendre Coefficients
20-Ca-49
0.4
0.3
0.2
0.1
0.0
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
50
100
150
200
20
Incident Energy (MeV)
20-Ca-49

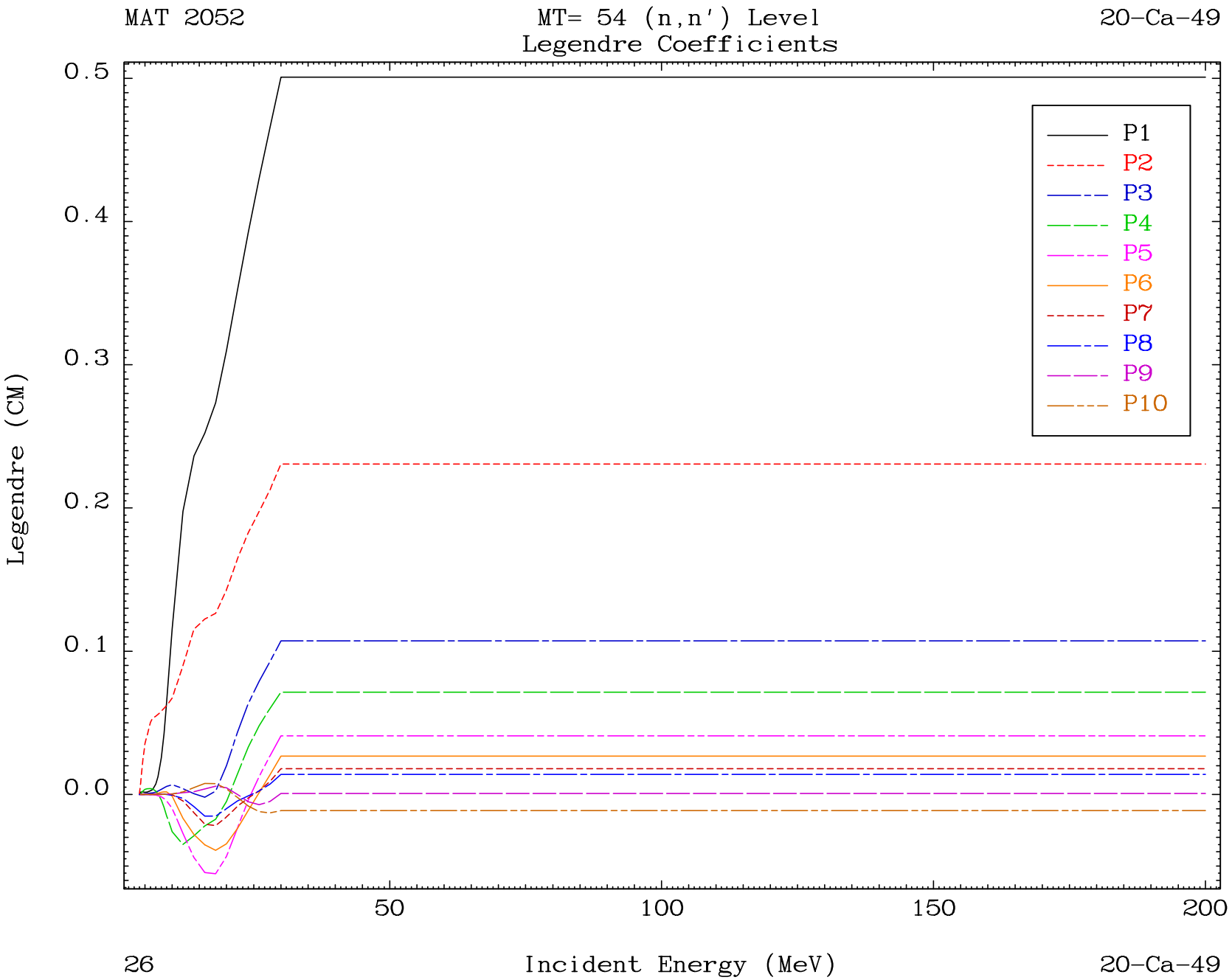

MAT 2052
MT= 52 (n,n') Level
Legendre Coefficients
20-Ca-49
0.000
-0.001
-0.002
-0.003
Legendre (CM)
50
100
150
200
Incident Energy (MeV)
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20

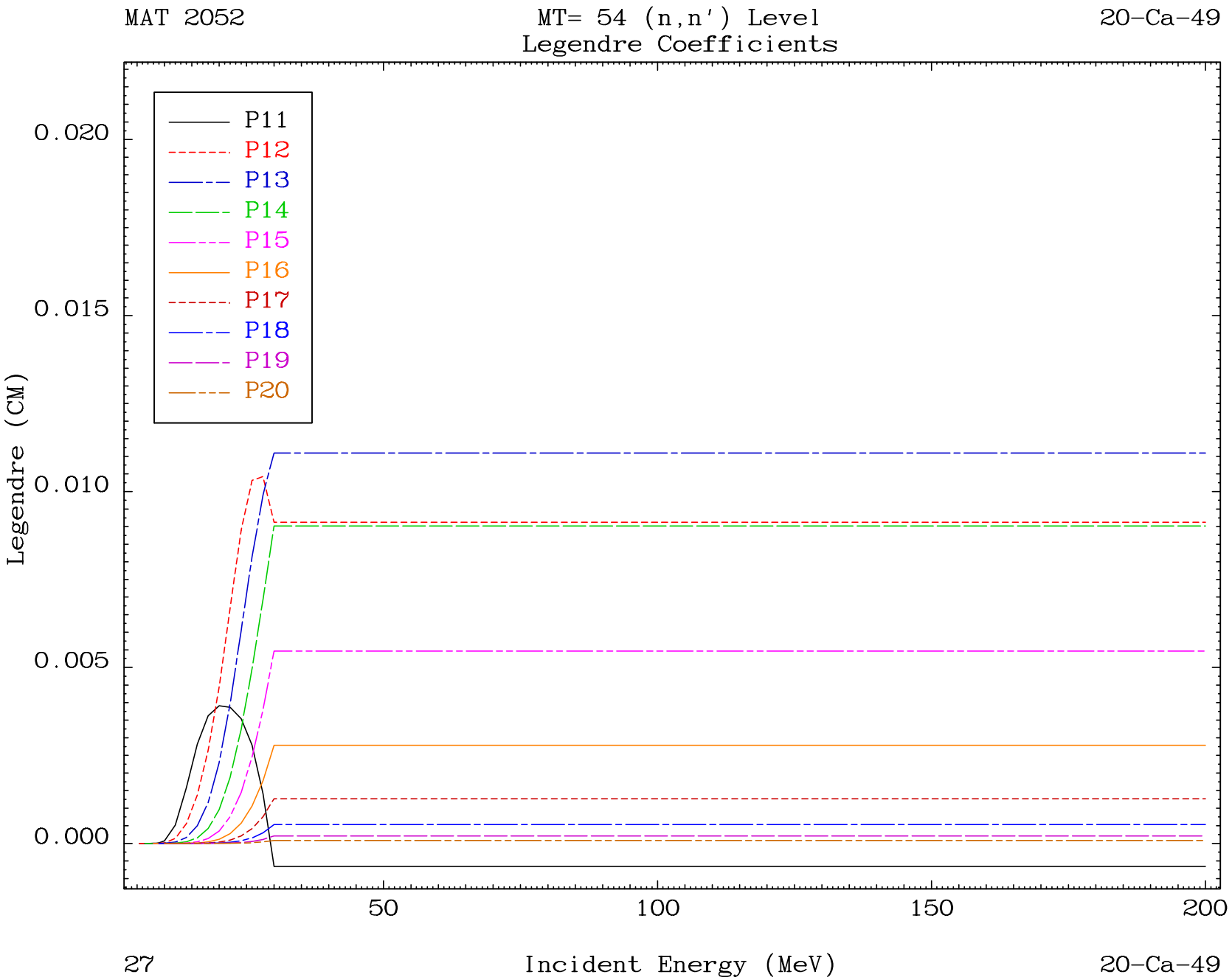

MAT 2052
MT= 52 (n,n') Level
Legendre Coefficients
20-Ca-49
0
X10^-6
-1
-2
-3
-4
Legendre (CM)
50
100
150
200
22
Incident Energy (MeV)
20-Ca-49
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30

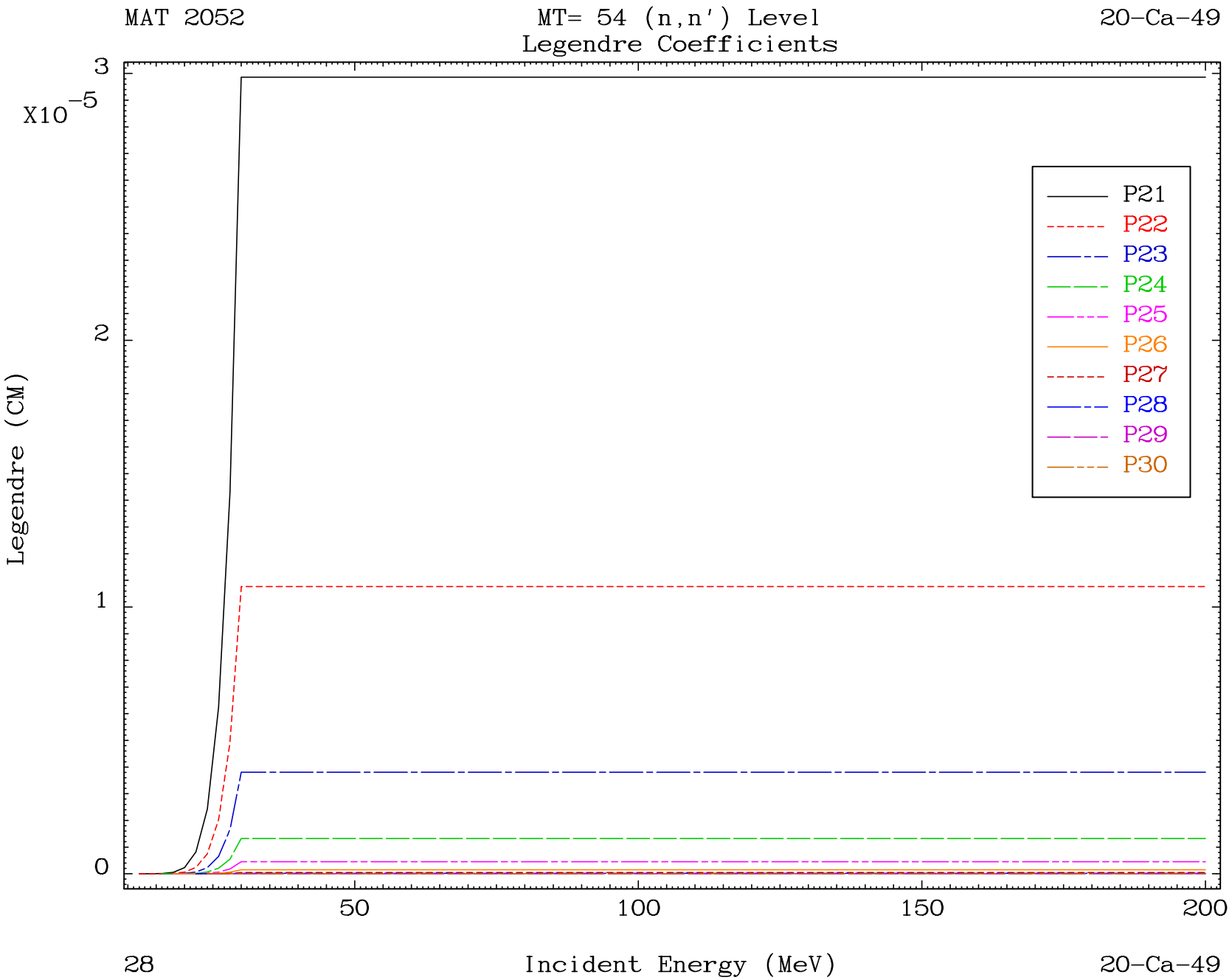

MAT 2052
MT= 53 (n,n') Level
Legendre Coefficients
20-Ca-49
Legendre (CM)
0.5
0.4
0.3
0.2
0.1
0.0
50
100
150
200
Incident Energy (MeV)
23
20-Ca-49
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11

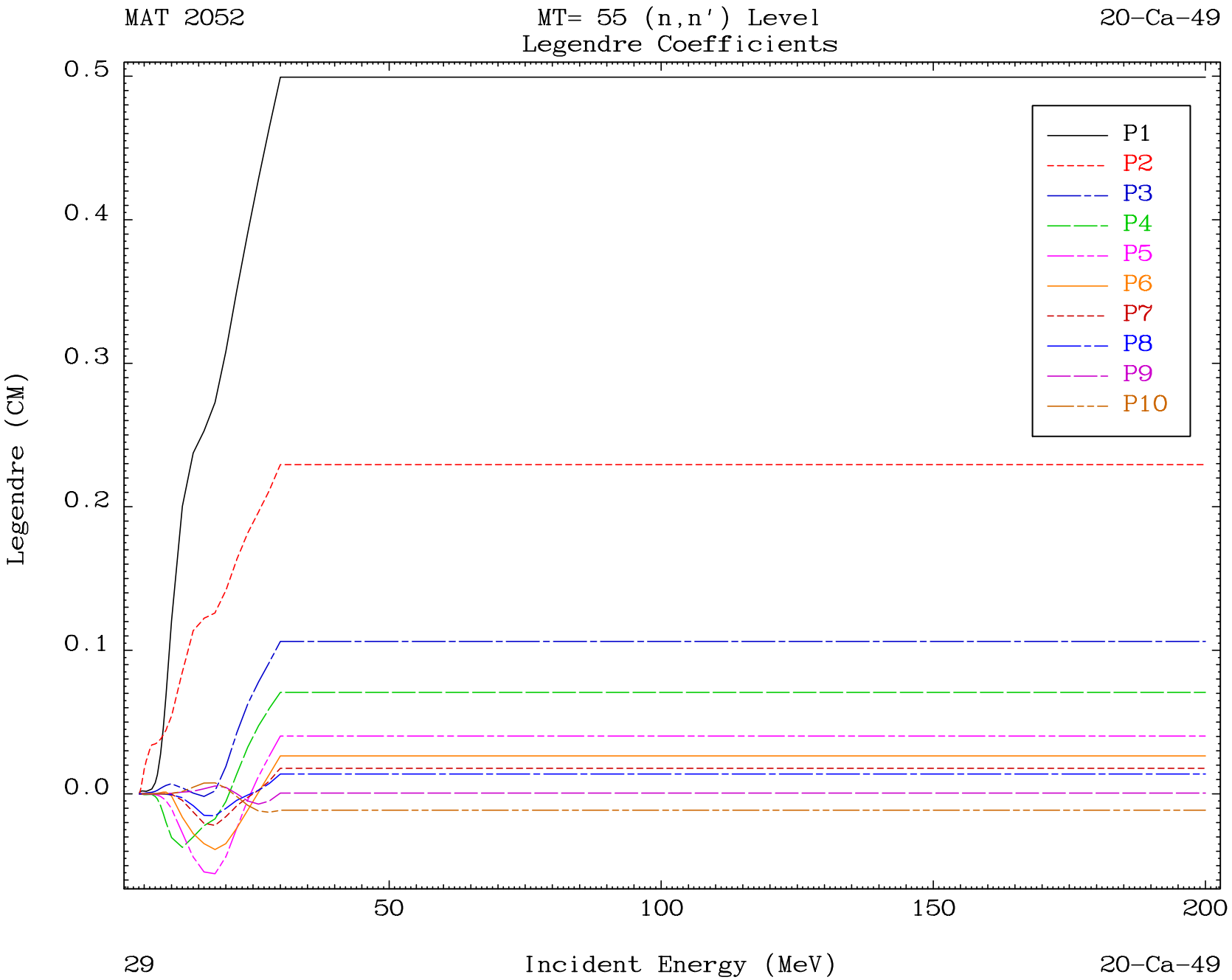

MAT 2052
MT= 53 (n,n') Level
Legendre Coefficients
20-Ca-49
P12
P13
P14
P15
P16
P17
P18
P19
P20
P21
P22
0.020
0.015
0.010
0.005
0.000
Legendre (CM)
50
100
150
200
24
Incident Energy (MeV)
20-Ca-49

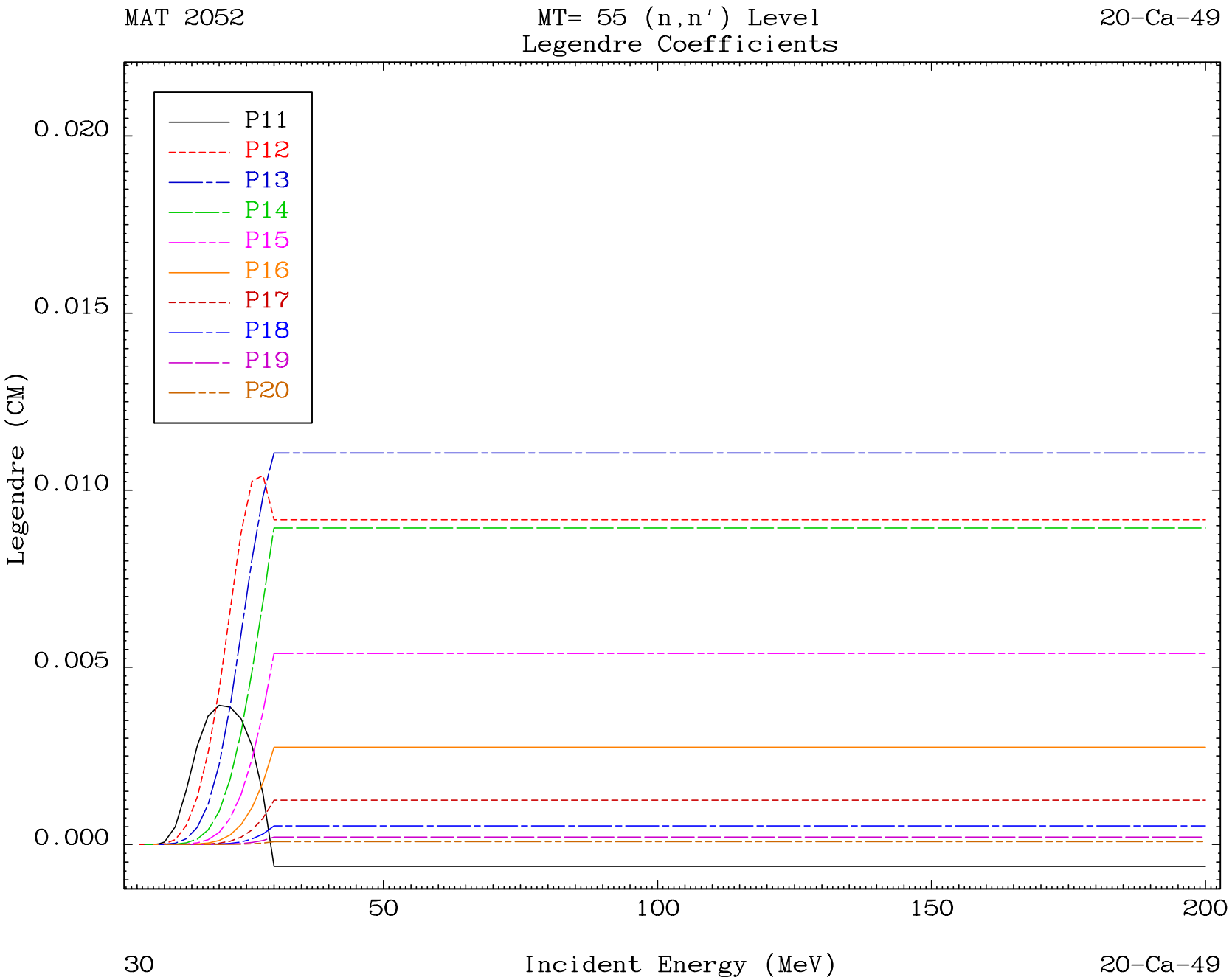

MAT 2052
MT= 53 (n,n') Level
Legendre Coefficients
20-Ca-49
X10 -6
4
3
2
1
0
Legendre (CM)
P23
P24
P25
P26
P27
P28
P29
P30
P31
P32
50
100
150
200
25
Incident Energy (MeV)
20-Ca-49

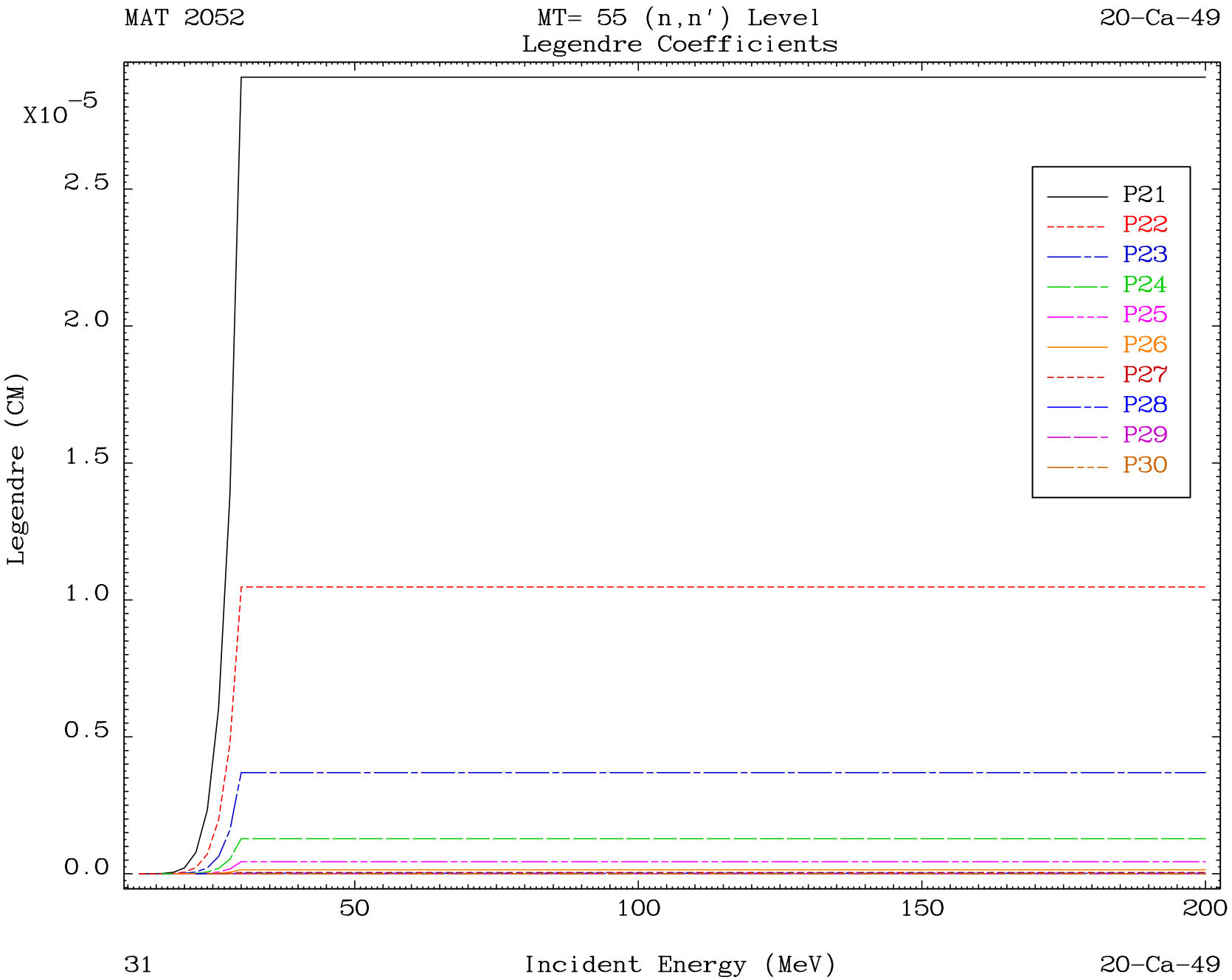

MAT 2052
MT= 54 (n,n') Level
Legendre Coefficients
20-Ca-49
Legendre (CM)
0.5
0.4
0.3
0.2
0.1
0.0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
26
Incident Energy (MeV)
20-Ca-49

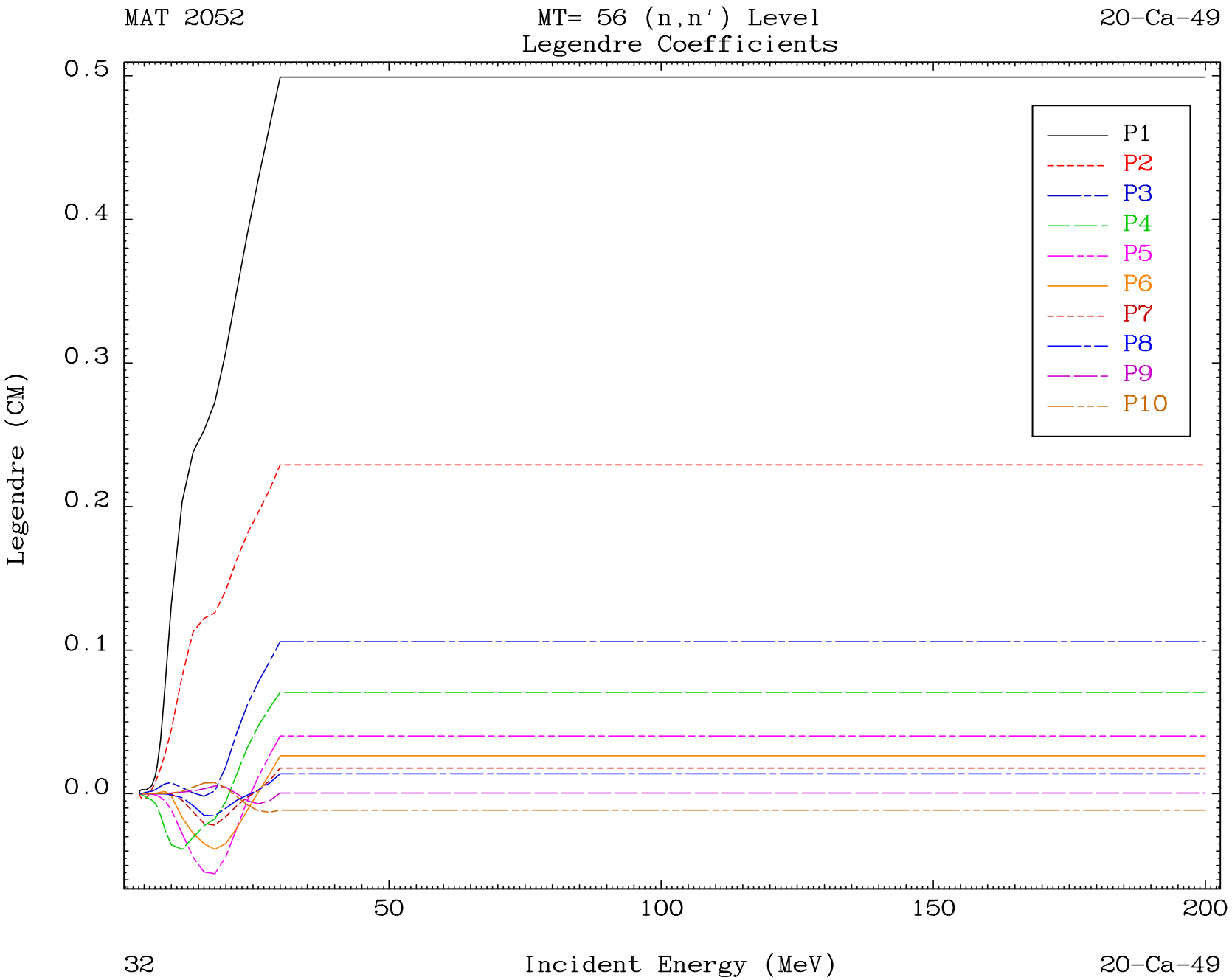

MAT 2052
MT= 54 (n,n') Level
Legendre Coefficients
20-Ca-49
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.020
0.015
0.010
0.005
0.000
Legendre (CM)
50
100
150
200
27
Incident Energy (MeV)
20-Ca-49

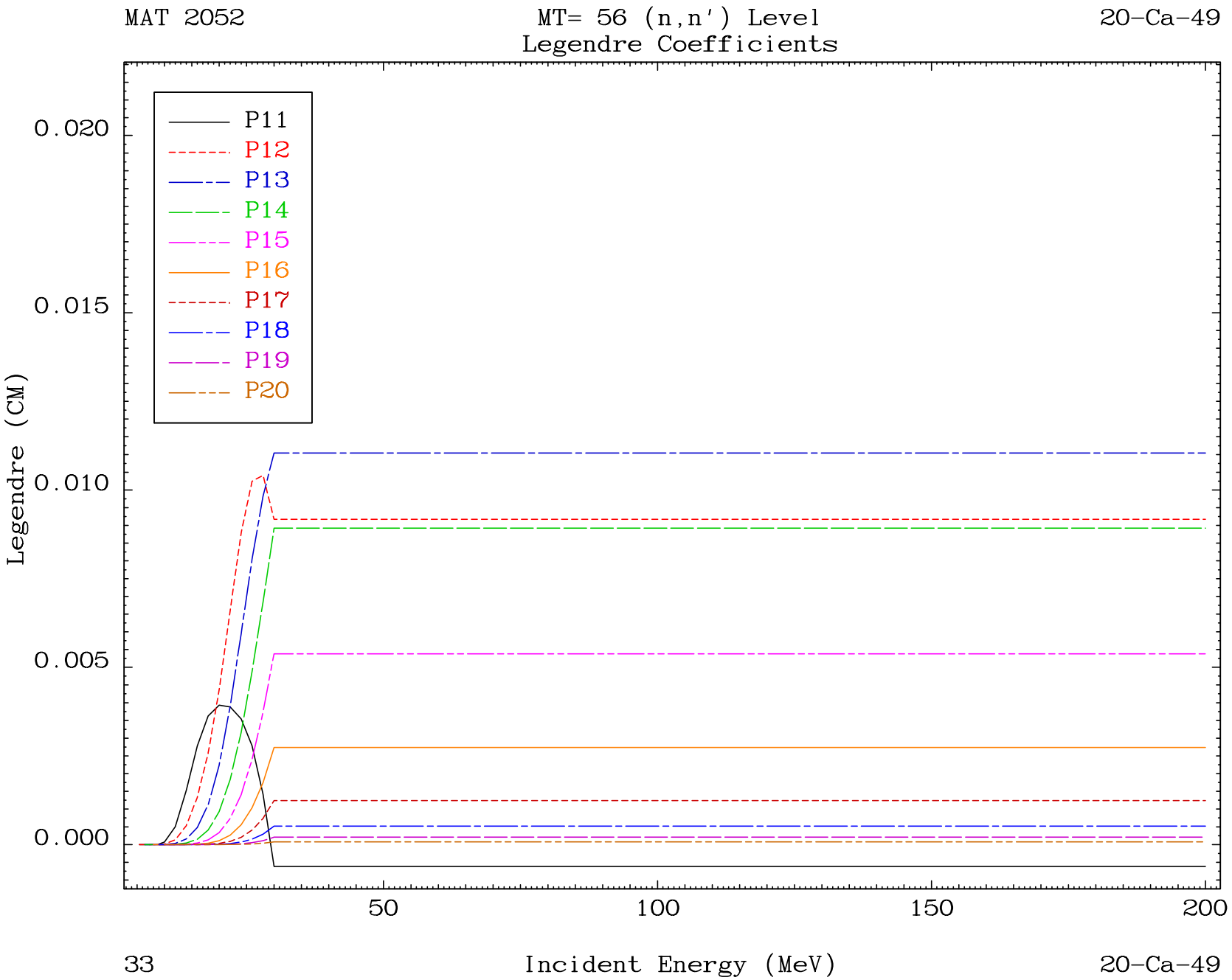

MAT 2052
MT= 54 (n,n') Level
Legendre Coefficients
20-Ca-49
X10 -5
3
2
1
0
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
50
100
150
200
28
Incident Energy (MeV)
20-Ca-49

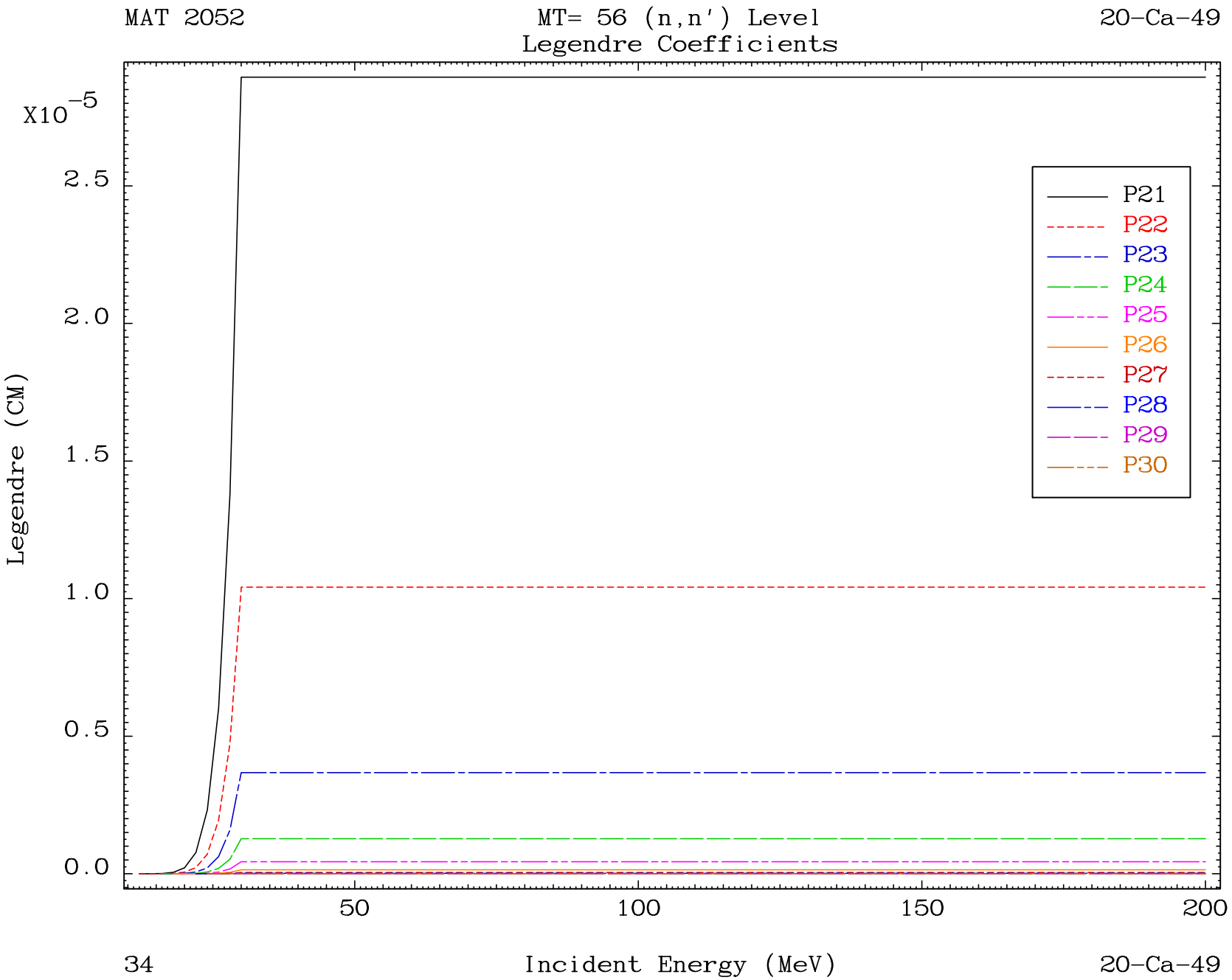

MAT 2052
MT= 55 (n,n') Level
Legendre Coefficients
20-Ca-49
0.5
0.4
0.3
0.2
0.1
0.0
Legendre (CM)
50
100
150
200
29
Incident Energy (MeV)
20-Ca-49
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10

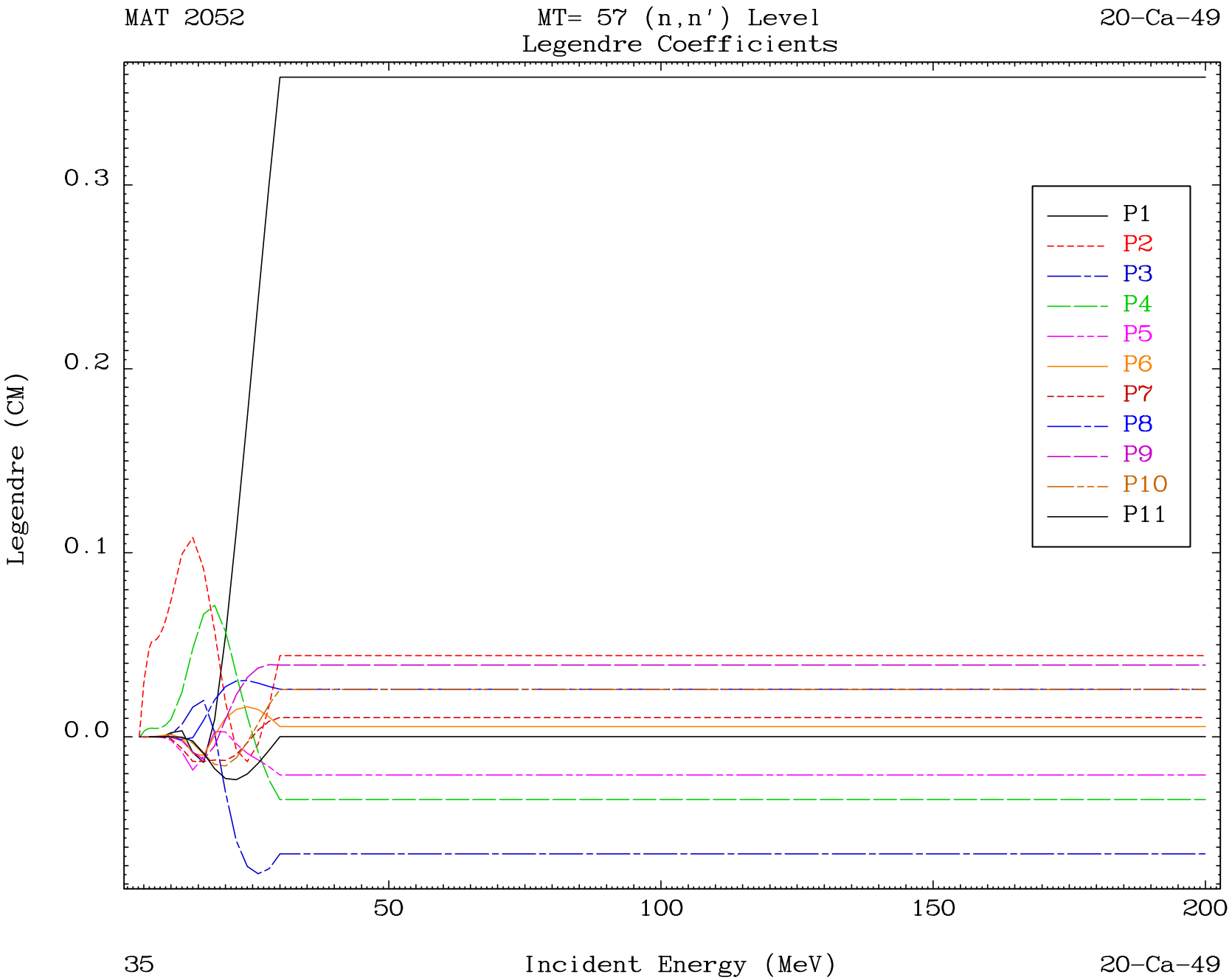

MAT 2052
MT= 55 (n,n') Level
Legendre Coefficients
20-Ca-49
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.020
0.015
0.010
0.005
0.000
Legendre (CM)
30
50
100
150
200
Incident Energy (MeV)
20-Ca-49

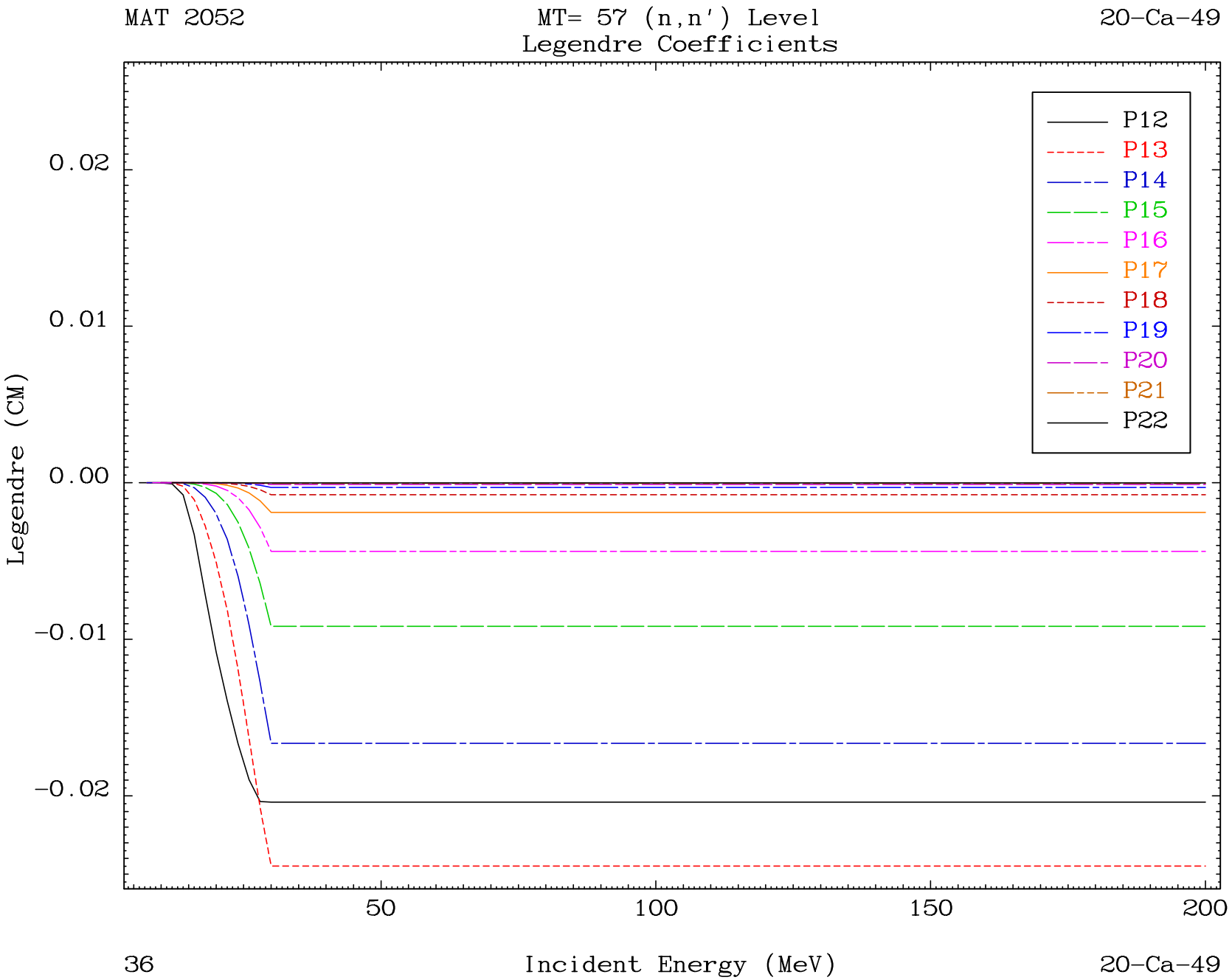

MAT 2052
MT= 55 (n,n') Level
Legendre Coefficients
20-Ca-49
X10-5
2.5
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
50
100
150
200
31
Incident Energy (MeV)
20-Ca-49

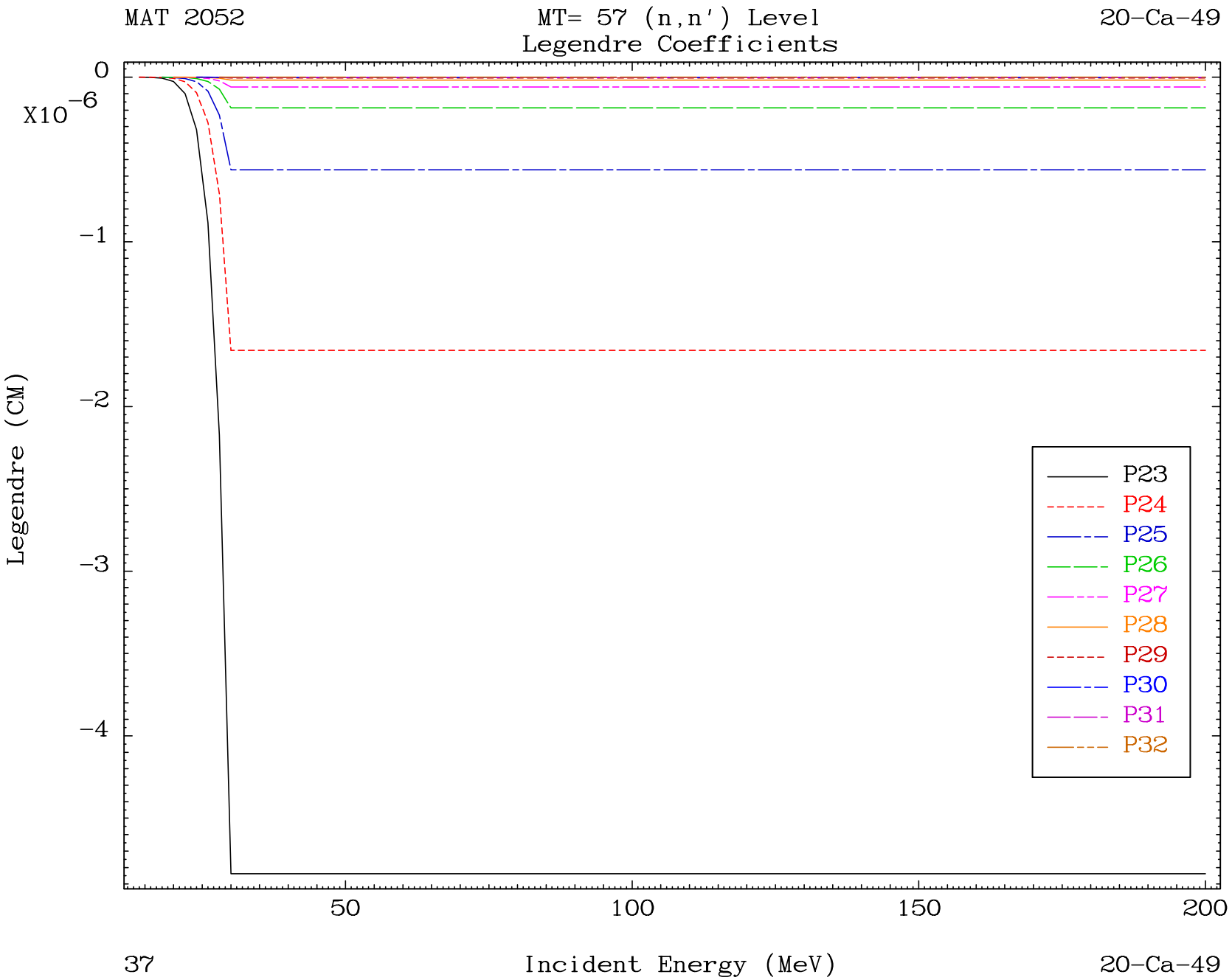

MAT 2052
MT= 56 (n,n') Level
Legendre Coefficients
20-Ca-49
0.5
0.4
0.3
0.2
0.1
0.0
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
50
100
150
200
32
Incident Energy (MeV)
20-Ca-49

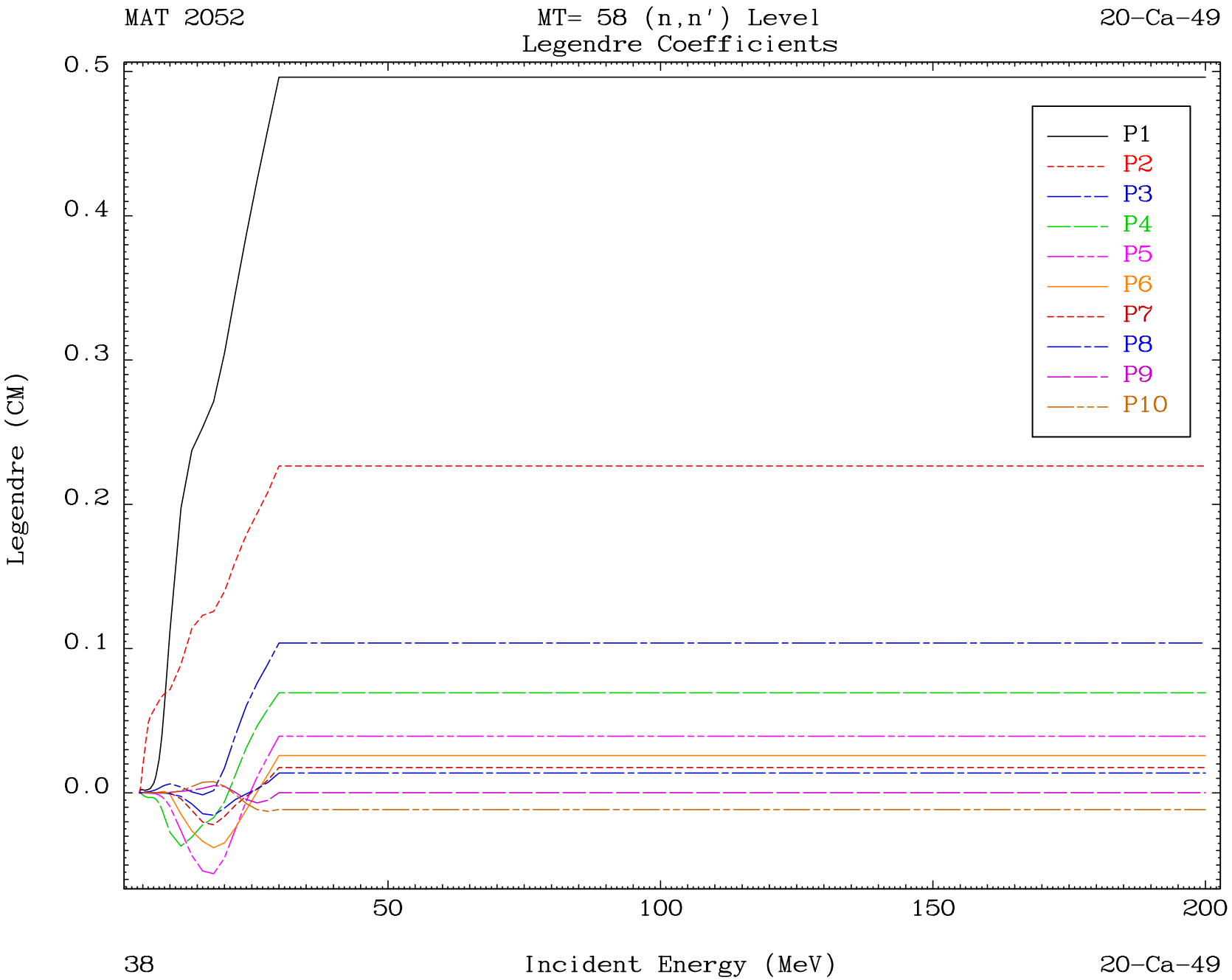

MAT 2052
MT= 56 (n,n') Level
Legendre Coefficients
20-Ca-49
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.020
0.015
0.010
0.005
0.000
Legendre (CM)
50
100
150
200
33
Incident Energy (MeV)
20-Ca-49

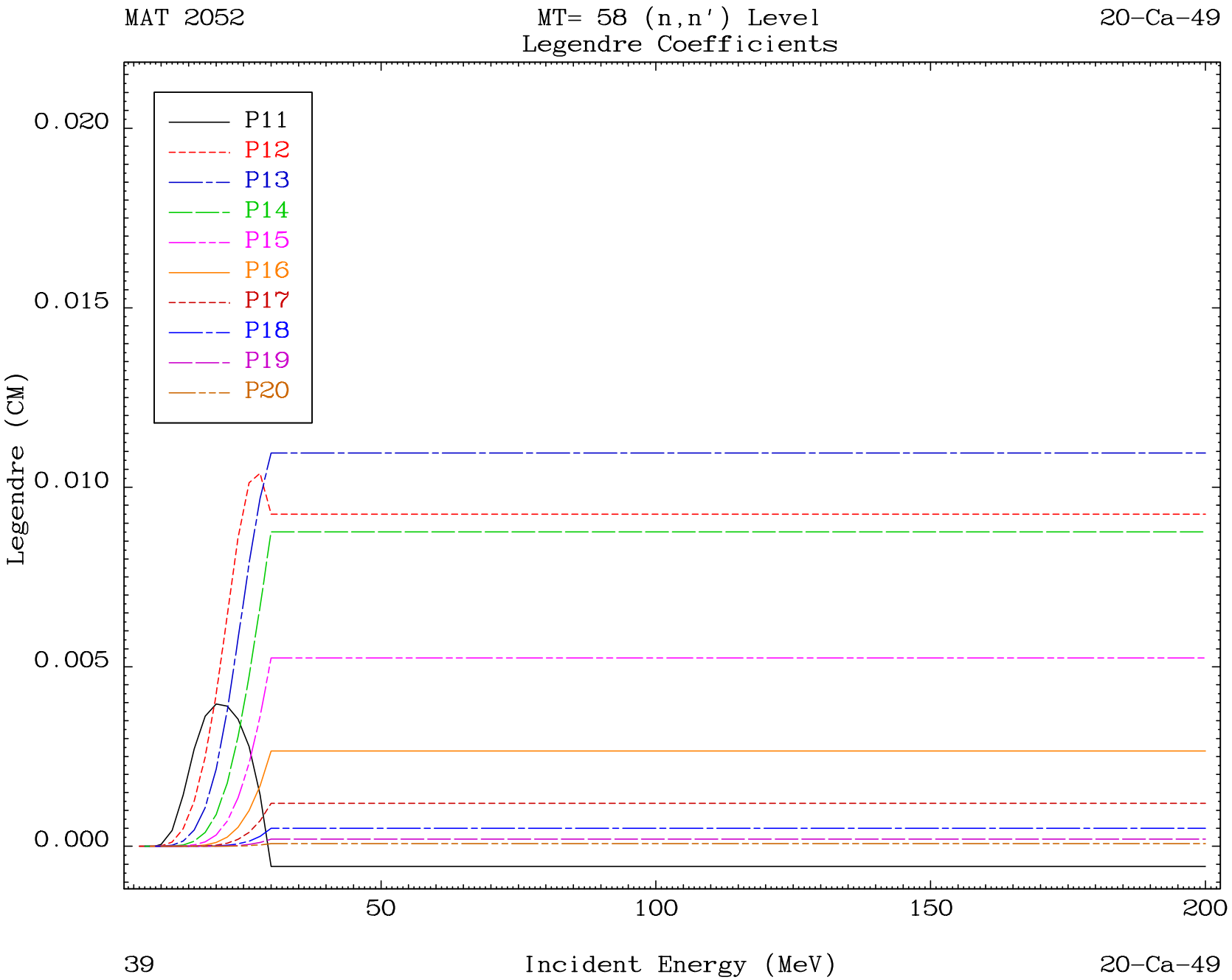

MAT 2052
MT= 56 (n,n') Level
Legendre Coefficients
20-Ca-49
X10-5
2.5
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
50
100
150
200
34
Incident Energy (MeV)
20-Ca-49

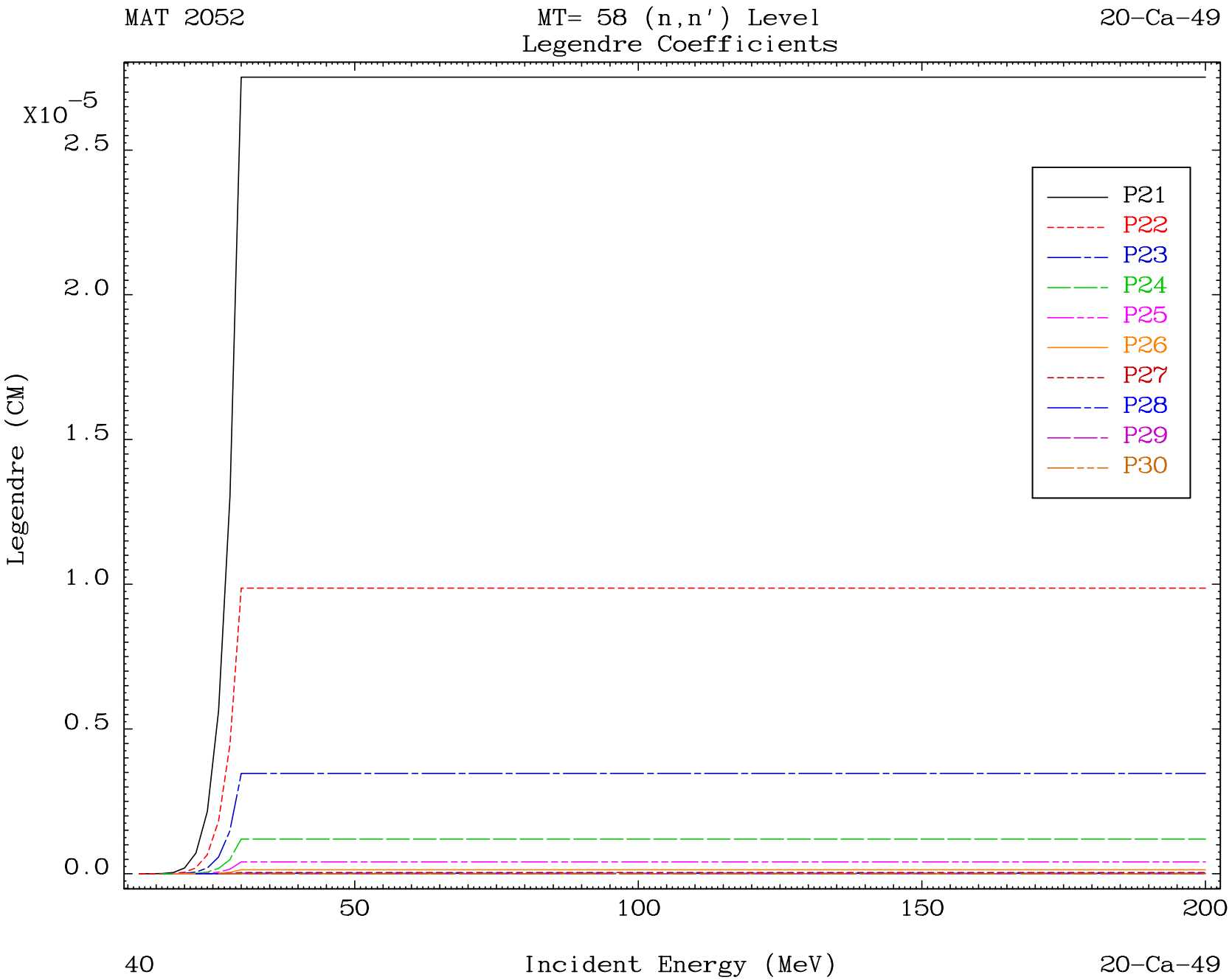

MAT 2052
MT= 57 (n,n') Level
Legendre Coefficients
20-Ca-49
Legendre (CM)
0.3
0.2
0.1
0.0
50
100
150
200
35
Incident Energy (MeV)
20-Ca-49
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11

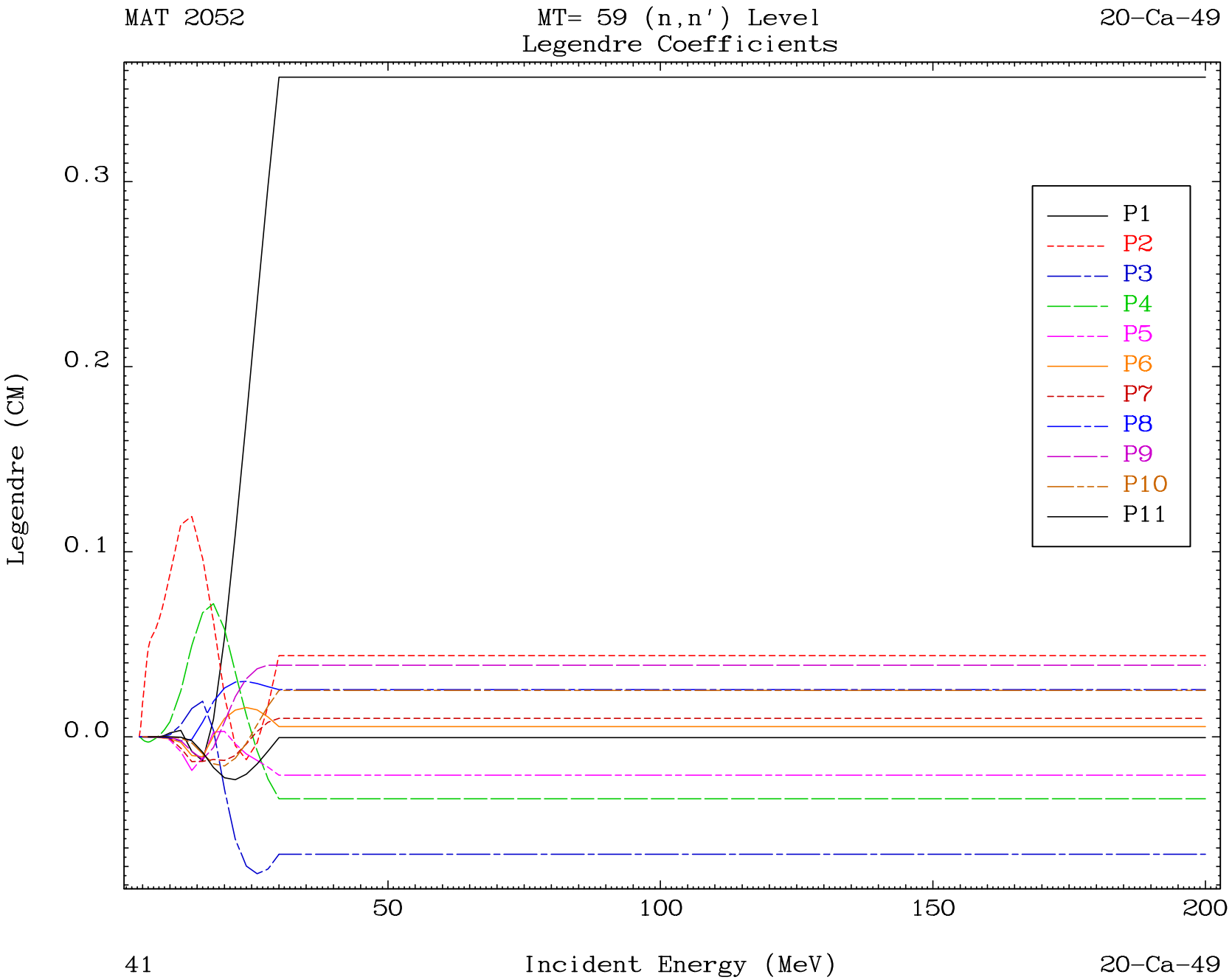

MAT 2052
MT= 57 (n,n') Level
Legendre Coefficients
20-Ca-49
P12
P13
P14
P15
P16
P17
P18
P19
P20
P21
P22
0.02
0.01
0.00
-0.01
-0.02
Legendre (CM)
50
100
150
200
36
Incident Energy (MeV)
20-Ca-49

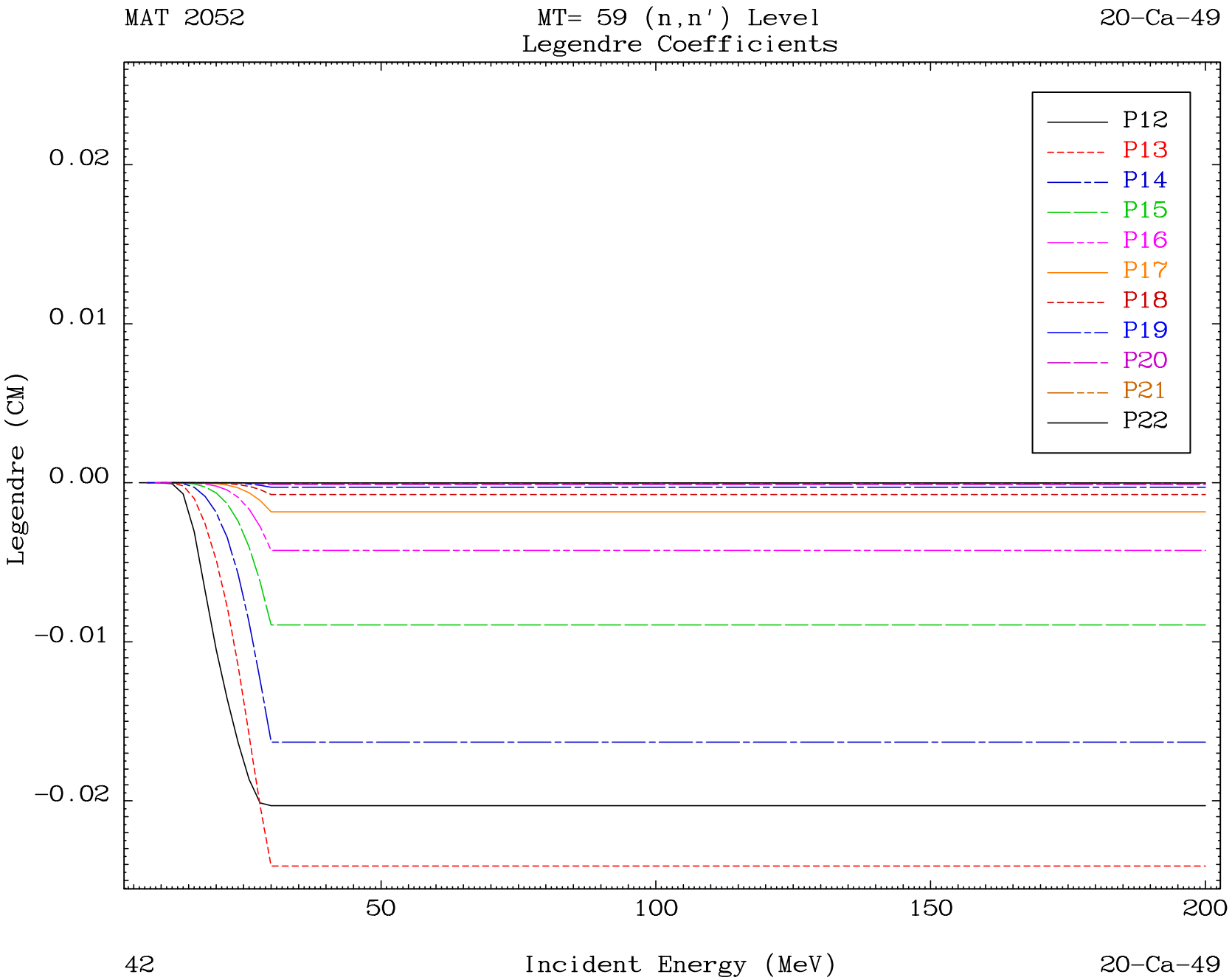

MAT 2052
MT= 57 (n,n') Level
Legendre Coefficients
20-Ca-49
0
X10 −6
−1
−2
−3
−4
Legendre (CM)
50
100
150
200
37
Incident Energy (MeV)
20-Ca-49
P23
P24
P25
P26
P27
P28
P29
P30
P31
P32

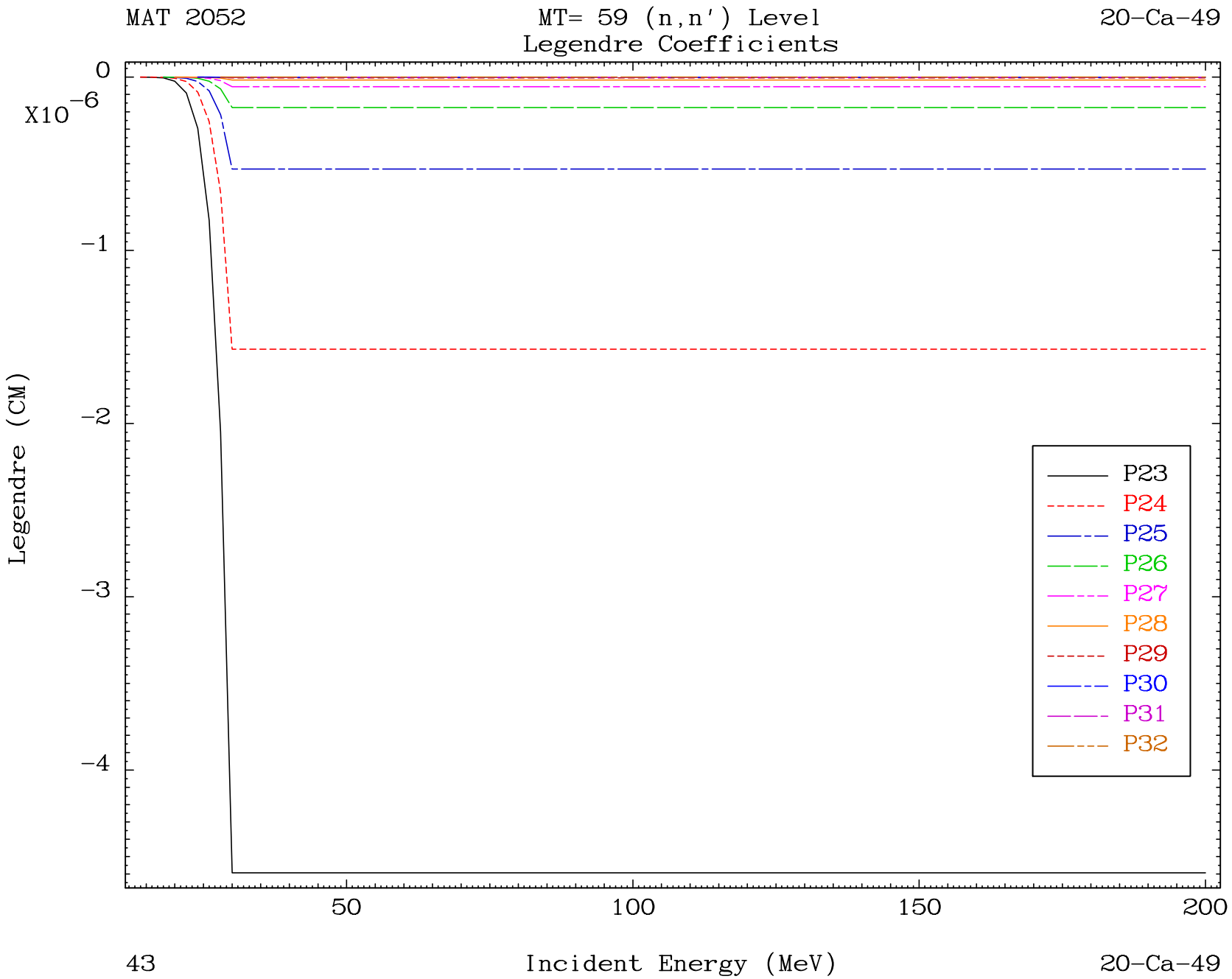

MAT 2052
MT= 58 (n,n') Level
Legendre Coefficients
20-Ca-49
Legendre (CM)
0.5
0.4
0.3
0.2
0.1
0.0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
38
Incident Energy (MeV)
20-Ca-49

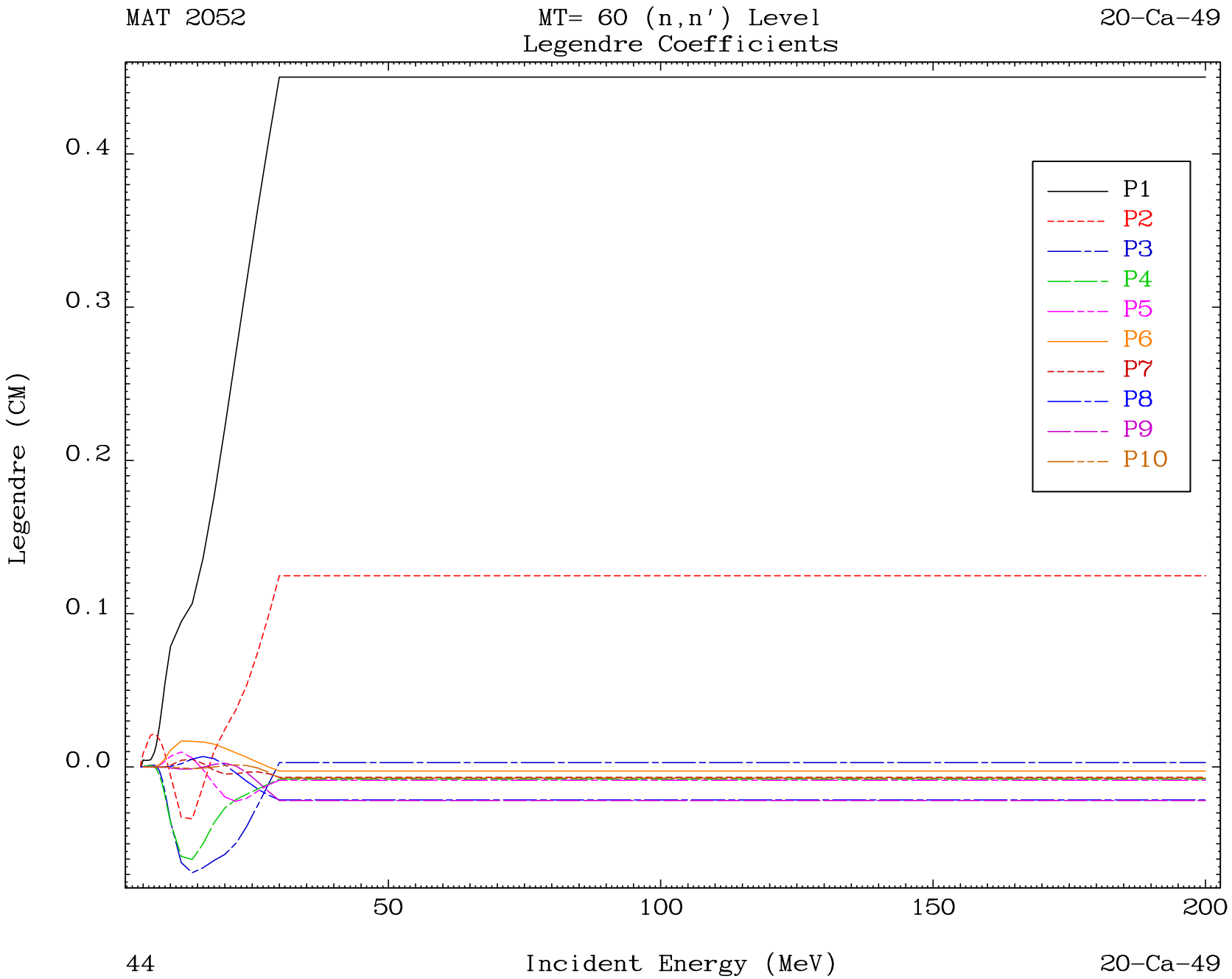

MAT 2052
MT= 58 (n,n') Level
Legendre Coefficients
20-Ca-49
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.020
0.015
0.010
0.005
0.000
Legendre (CM)
50
100
150
200
39
Incident Energy (MeV)
20-Ca-49

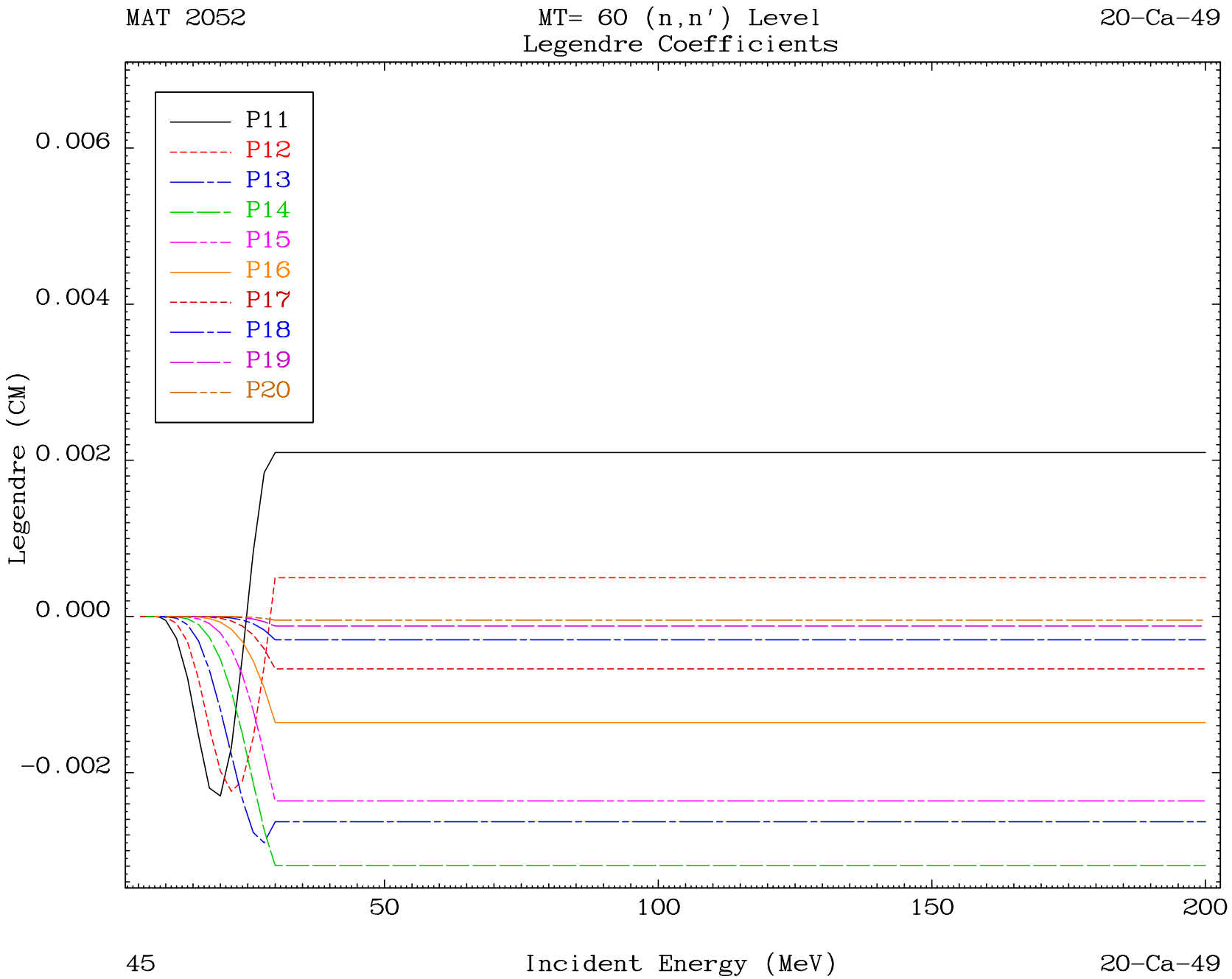

MAT 2052
MT= 58 (n,n') Level
Legendre Coefficients
20-Ca-49
X10-5
2.5
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
40
50
100
150
200
Incident Energy (MeV)
20-Ca-49

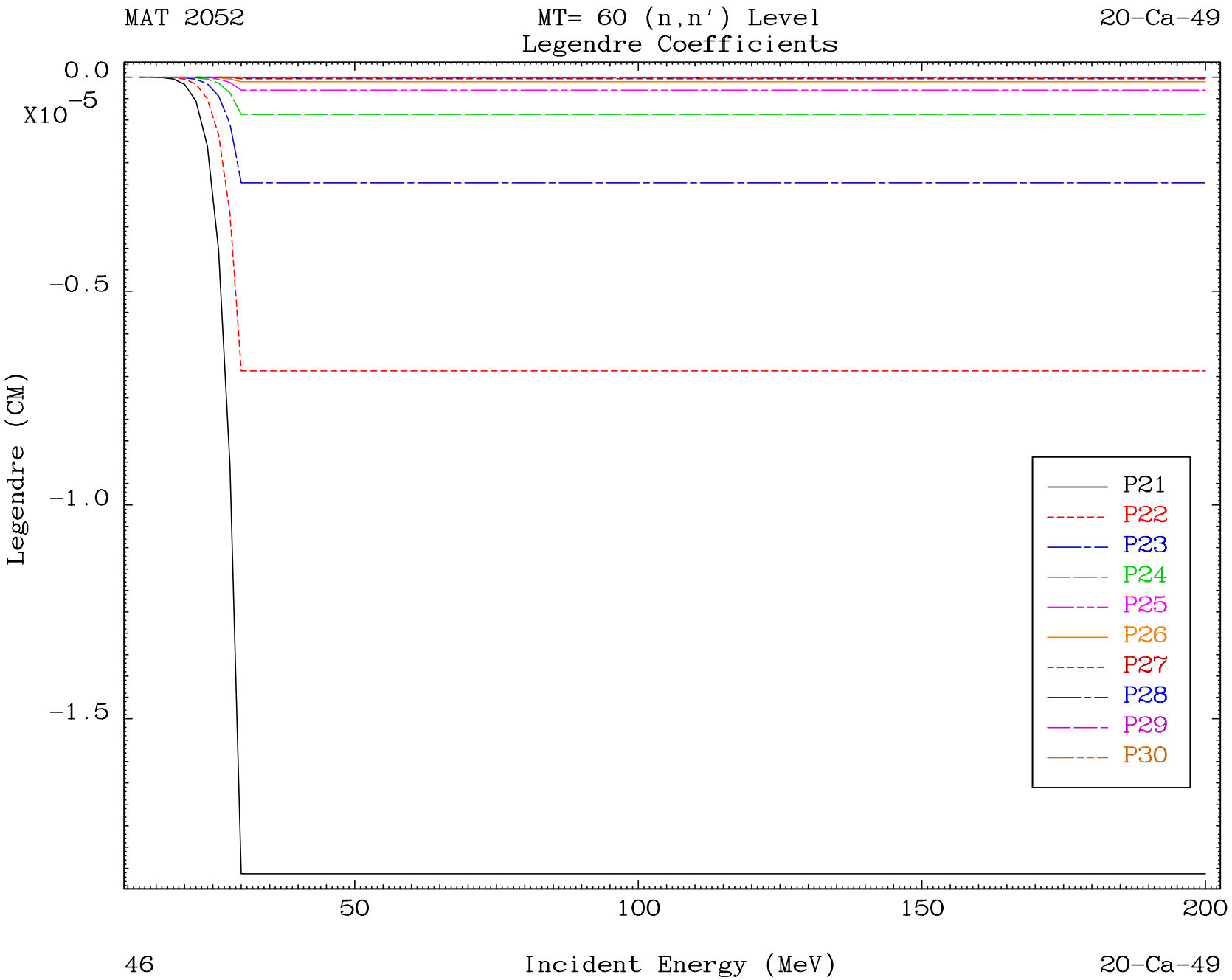

MAT 2052
MT= 59 (n,n') Level
Legendre Coefficients
20-Ca-49
Legendre (CM)
0.3
0.2
0.1
0.0
50
100
150
200
Incident Energy (MeV)
41
20-Ca-49
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11

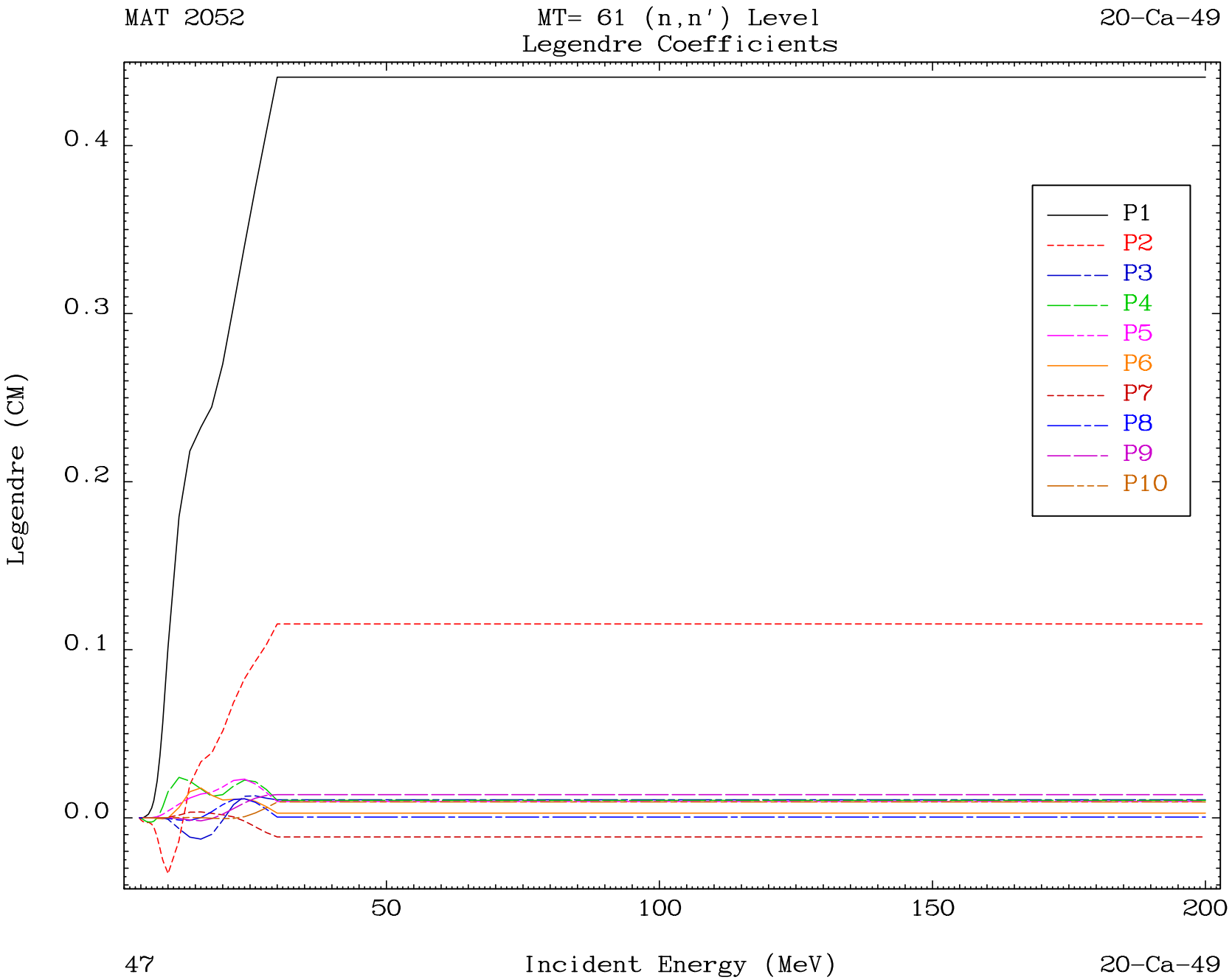

MAT 2052
MT= 59 (n,n') Level
Legendre Coefficients
20-Ca-49
P12
P13
P14
P15
P16
P17
P18
P19
P20
P21
P22
0.02
0.01
0.00
-0.01
-0.02
Legendre (CM)
50
100
150
200
42
Incident Energy (MeV)
20-Ca-49

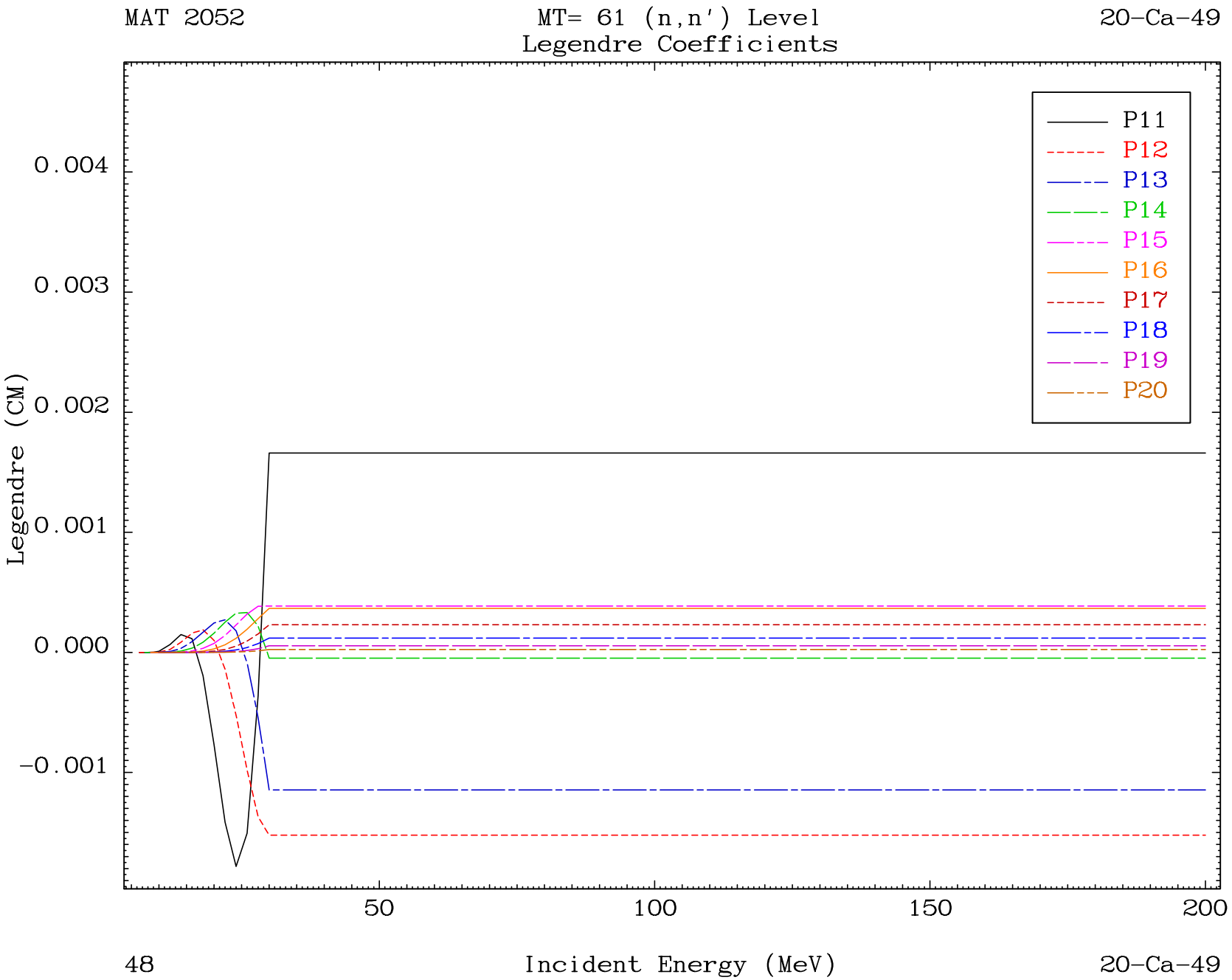

MAT 2052
MT= 59 (n,n') Level
Legendre Coefficients
20-Ca-49
0
X10 −6
−1
−2
−3
−4
Legendre (CM)
50
100
150
200
P23
P24
P25
P26
P27
P28
P29
P30
P31
P32
43
Incident Energy (MeV)
20-Ca-49

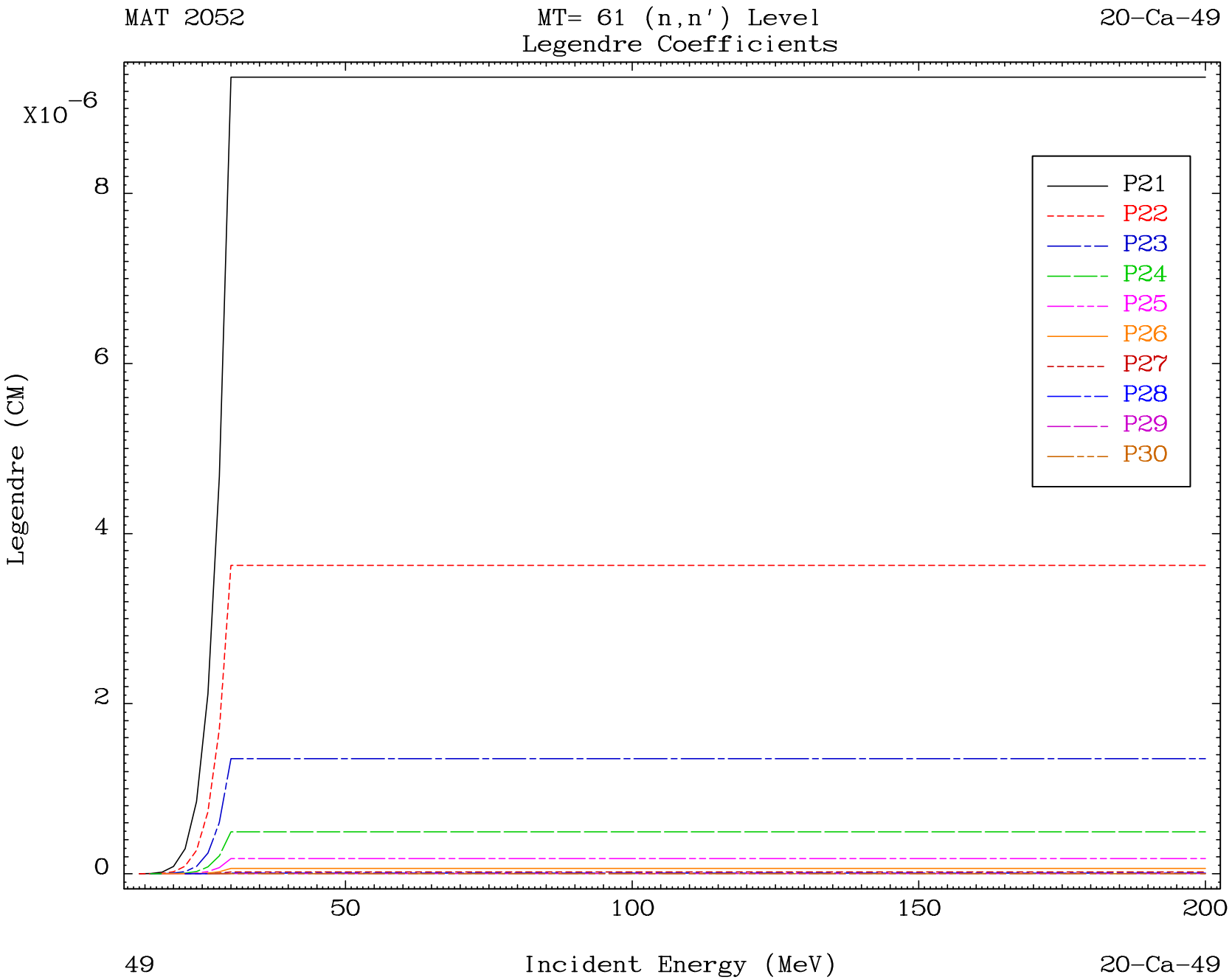

MAT 2052
MT= 60 (n,n') Level
Legendre Coefficients
20-Ca-49
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
44
Incident Energy (MeV)
20-Ca-49

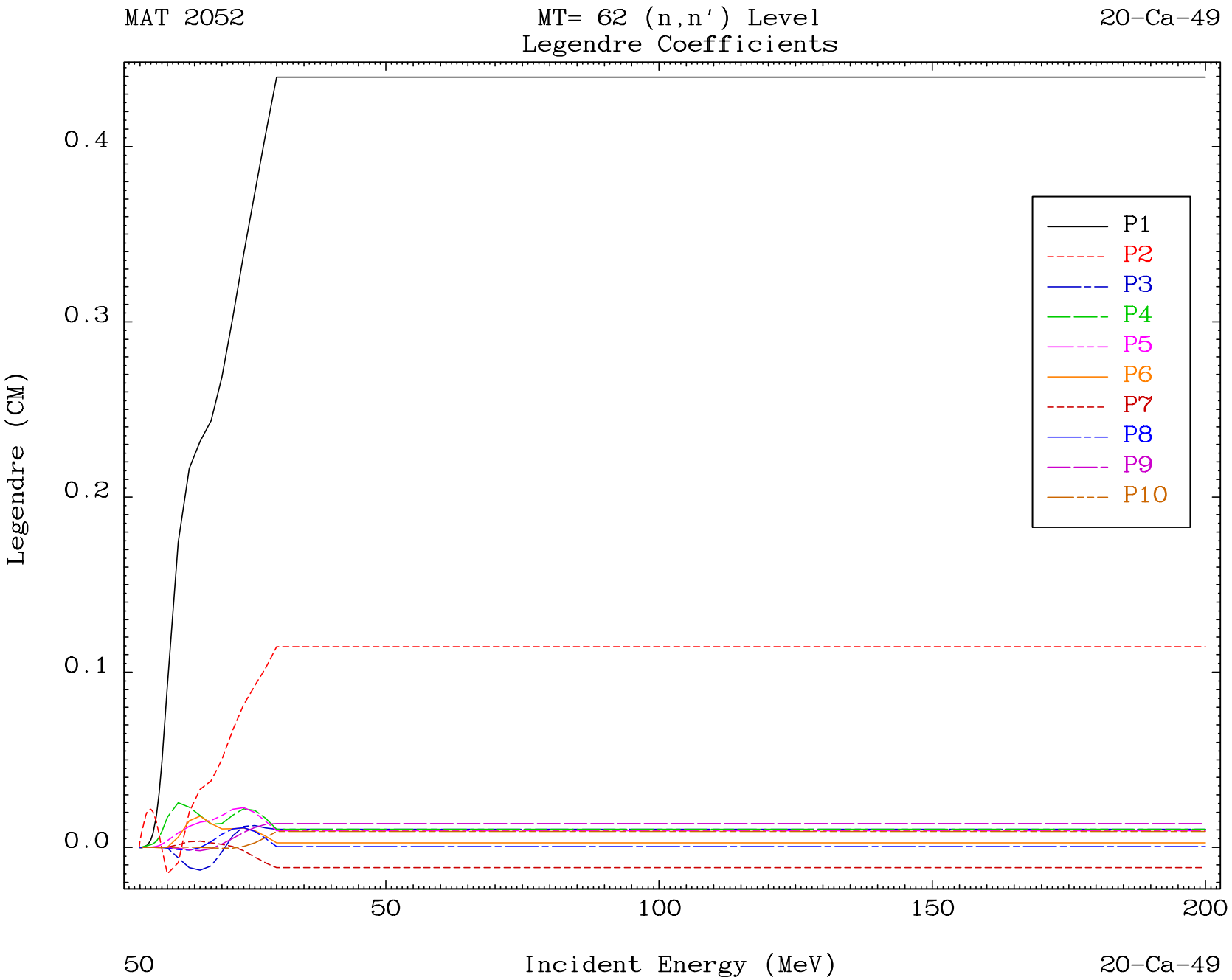

MAT 2052
MT= 60 (n,n') Level
Legendre Coefficients
20-Ca-49
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.006
0.004
0.002
0.000
-0.002
Legendre (CM)
50
100
150
200
45
Incident Energy (MeV)
20-Ca-49

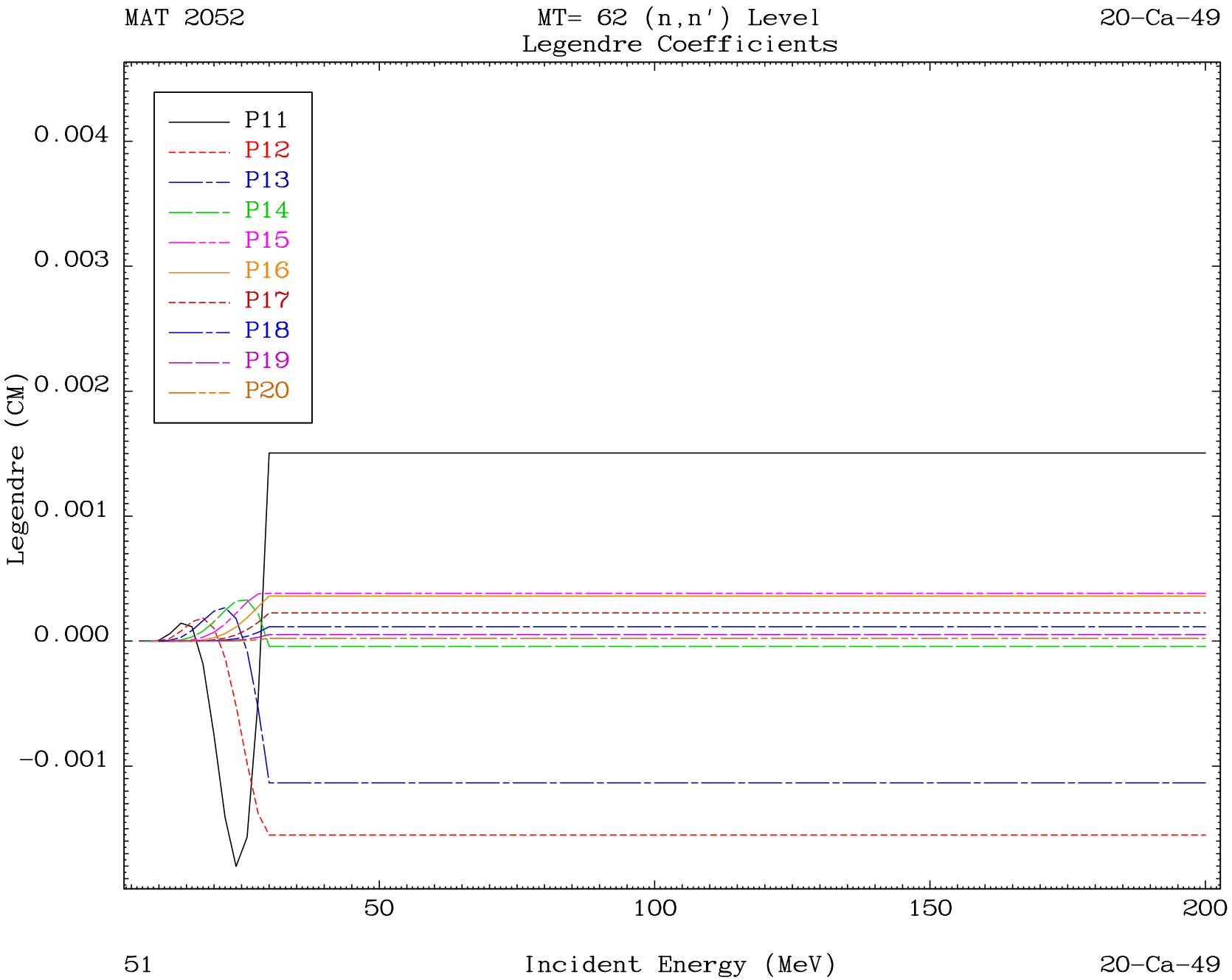

MAT 2052
MT= 60 (n,n') Level
Legendre Coefficients
20-Ca-49
0.0
X10^-5
-0.5
-1.0
-1.5
Legendre (CM)
50
100
150
200
46
Incident Energy (MeV)
20-Ca-49
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30

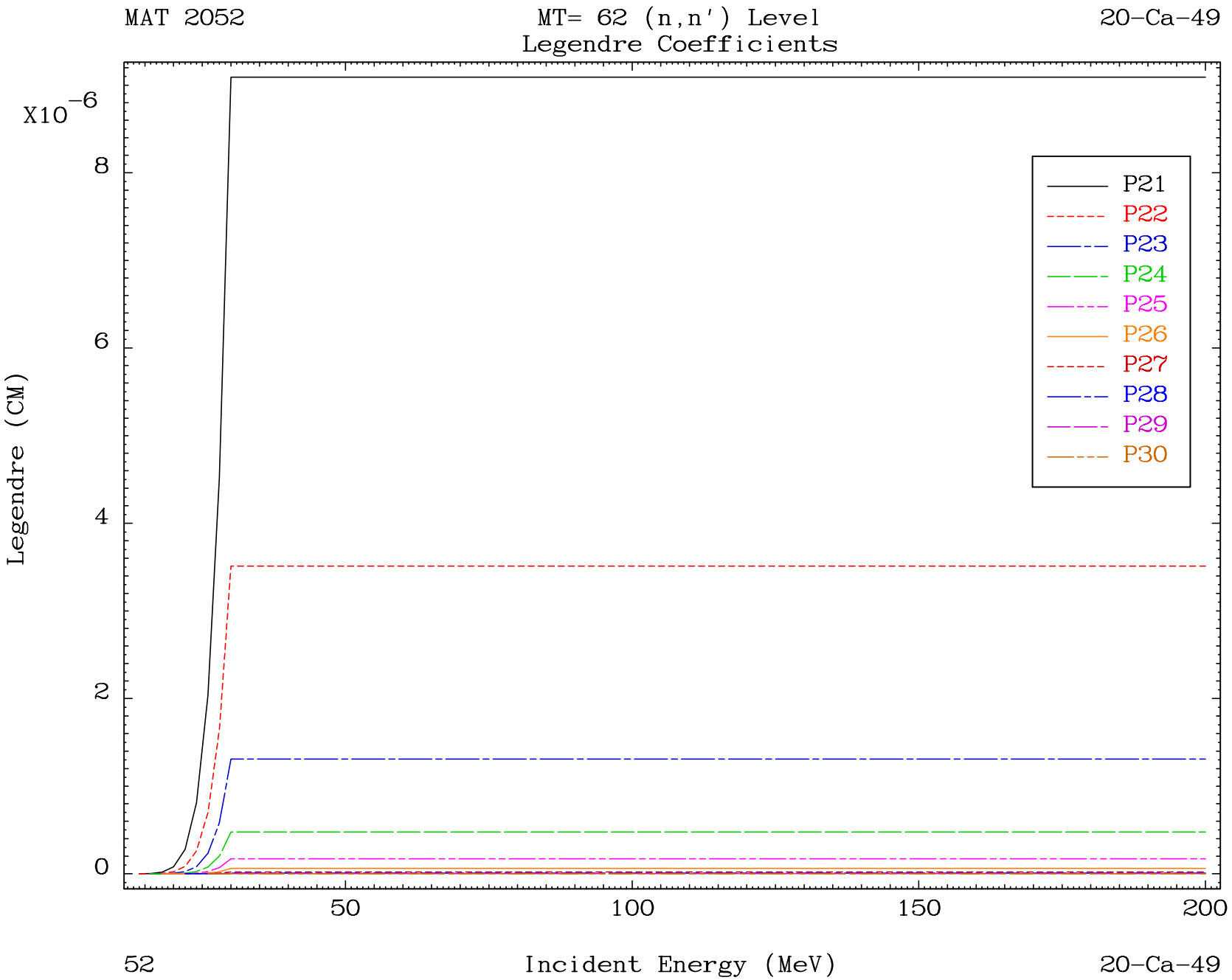

MAT 2052
MT= 61 (n,n') Level
Legendre Coefficients
20-Ca-49
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
50
100
150
200
47
Incident Energy (MeV)
20-Ca-49
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10

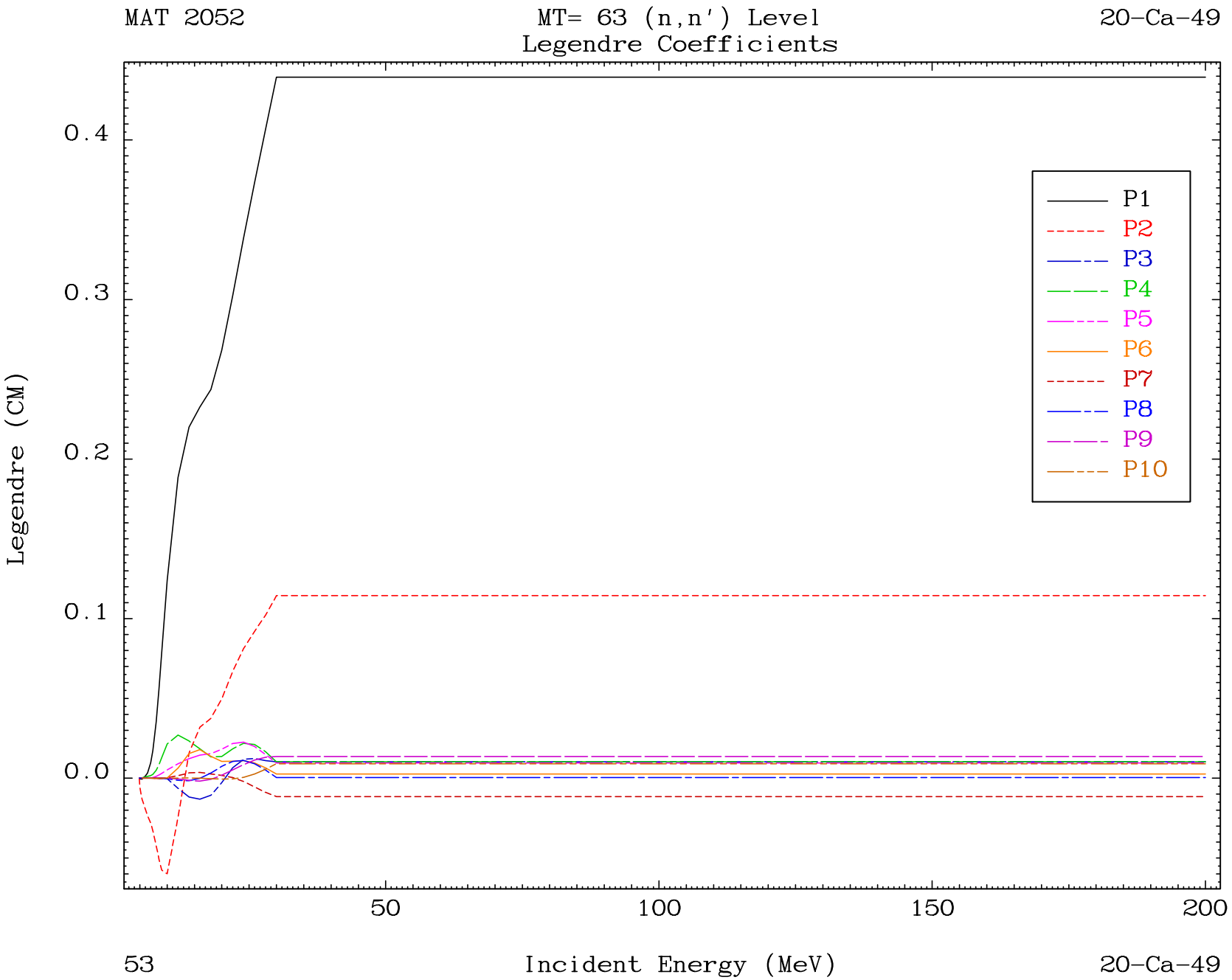

MAT 2052
MT= 61 (n,n') Level
Legendre Coefficients
20-Ca-49
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.004
0.003
0.002
0.001
0.000
-0.001
Legendre (CM)
50
100
150
200
48
Incident Energy (MeV)
20-Ca-49

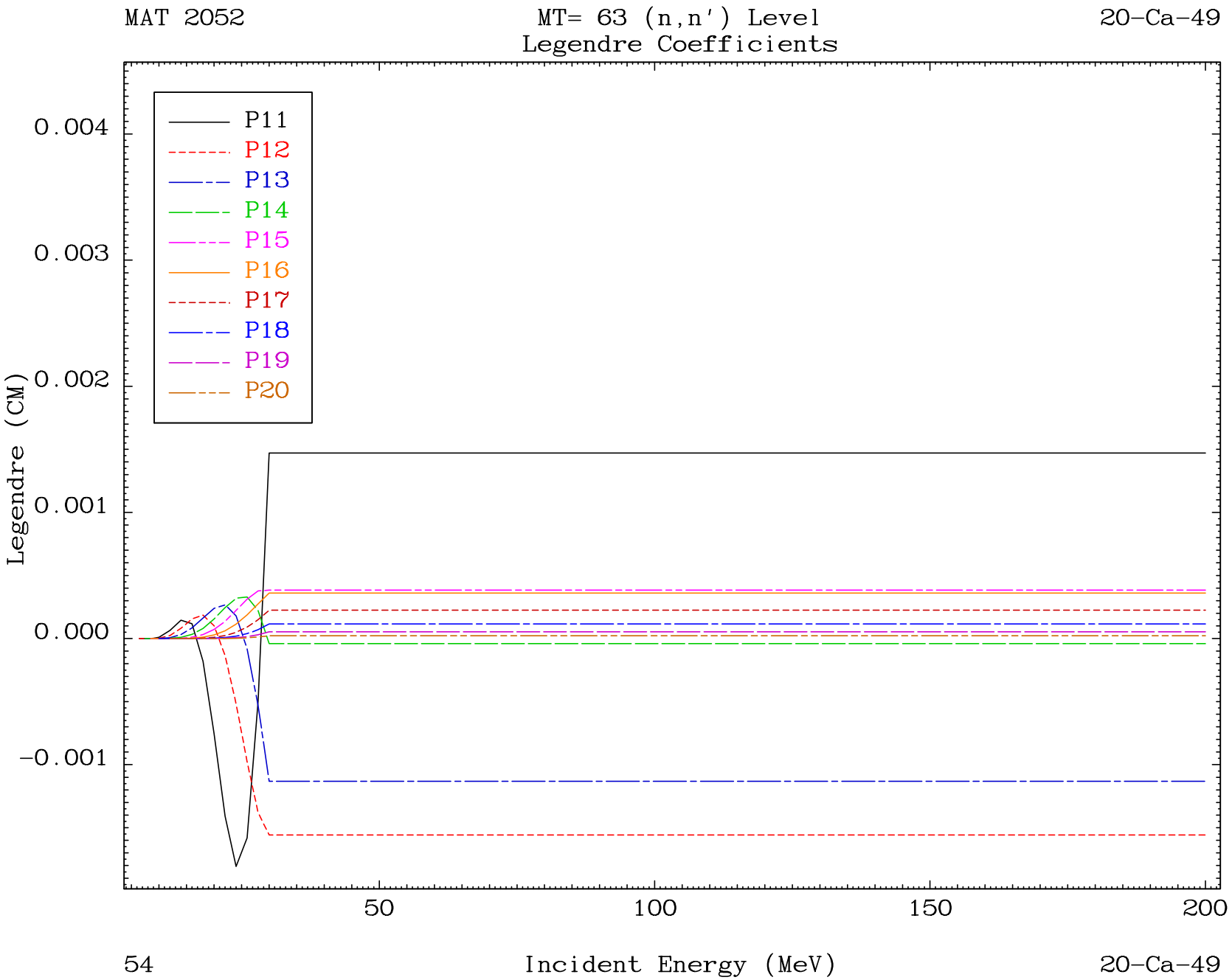

MAT 2052
MT= 61 (n,n') Level
Legendre Coefficients
20-Ca-49
X10^-6
8
6
4
2
0
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
50
100
150
200
49
Incident Energy (MeV)
20-Ca-49

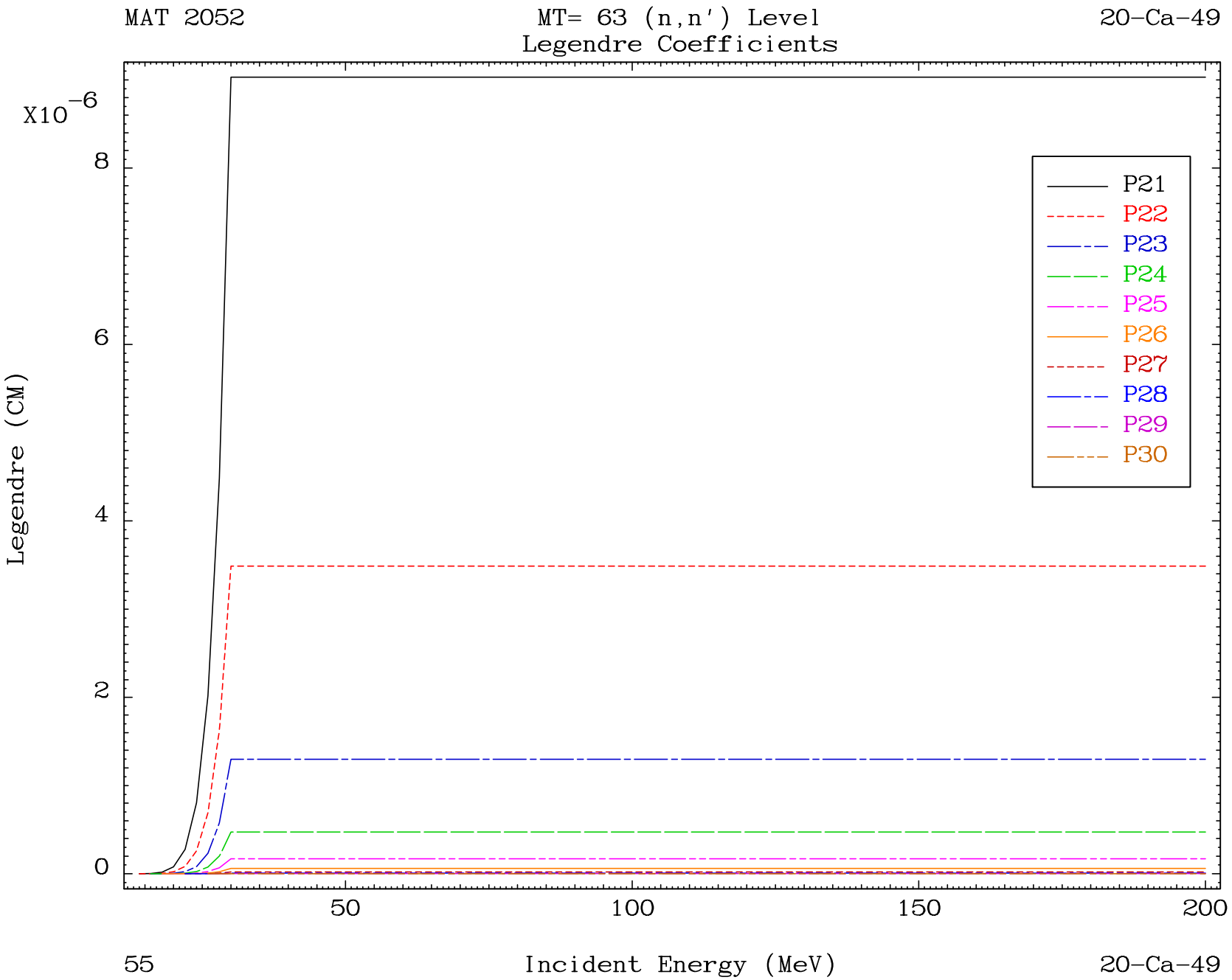

MAT 2052
MT= 62 (n,n') Level
Legendre Coefficients
20-Ca-49
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
50
Incident Energy (MeV)
20-Ca-49

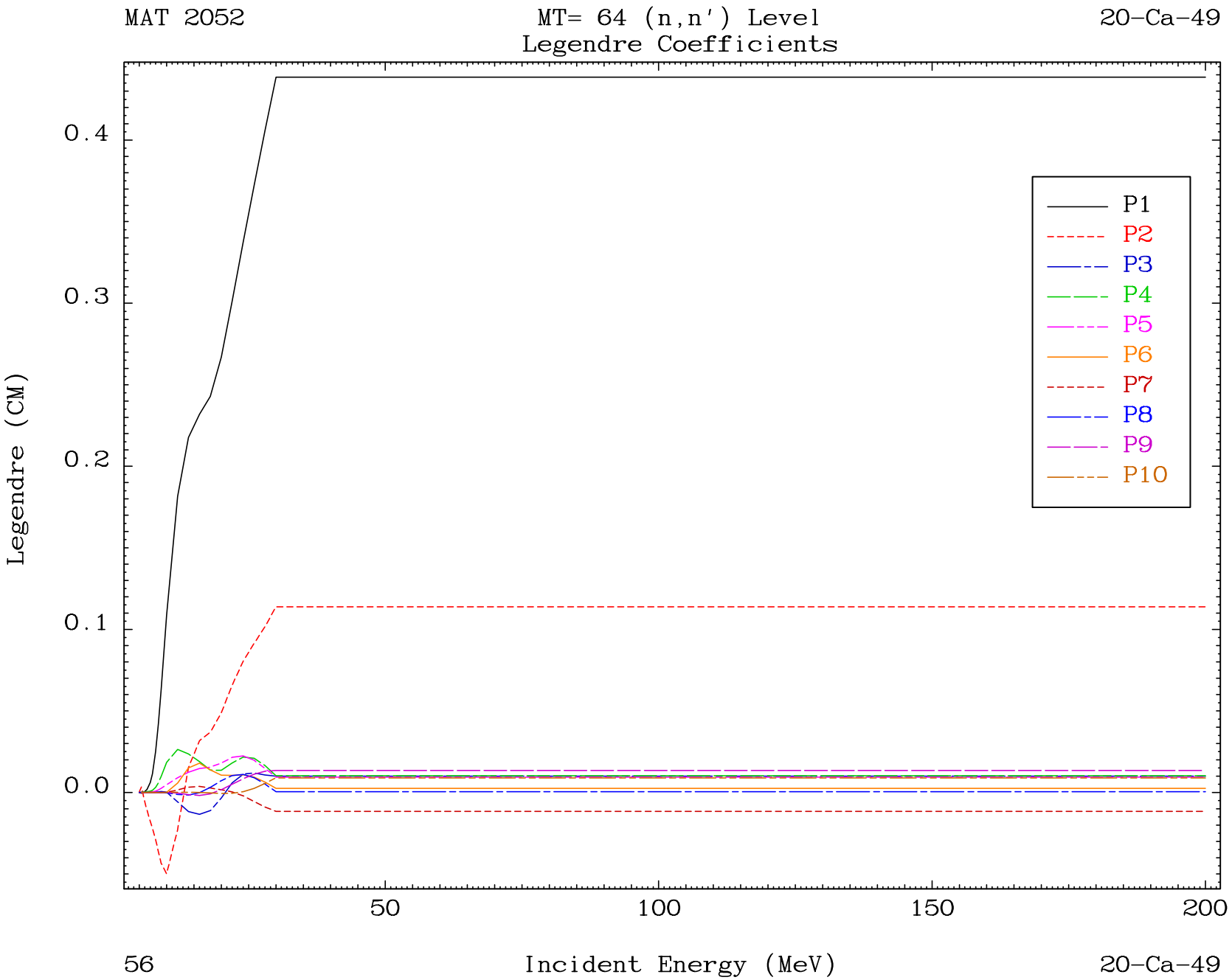

MAT 2052
MT= 62 (n,n') Level
Legendre Coefficients
20-Ca-49
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.004
0.003
0.002
0.001
0.000
-0.001
Legendre (CM)
50
100
150
200
51
Incident Energy (MeV)
20-Ca-49

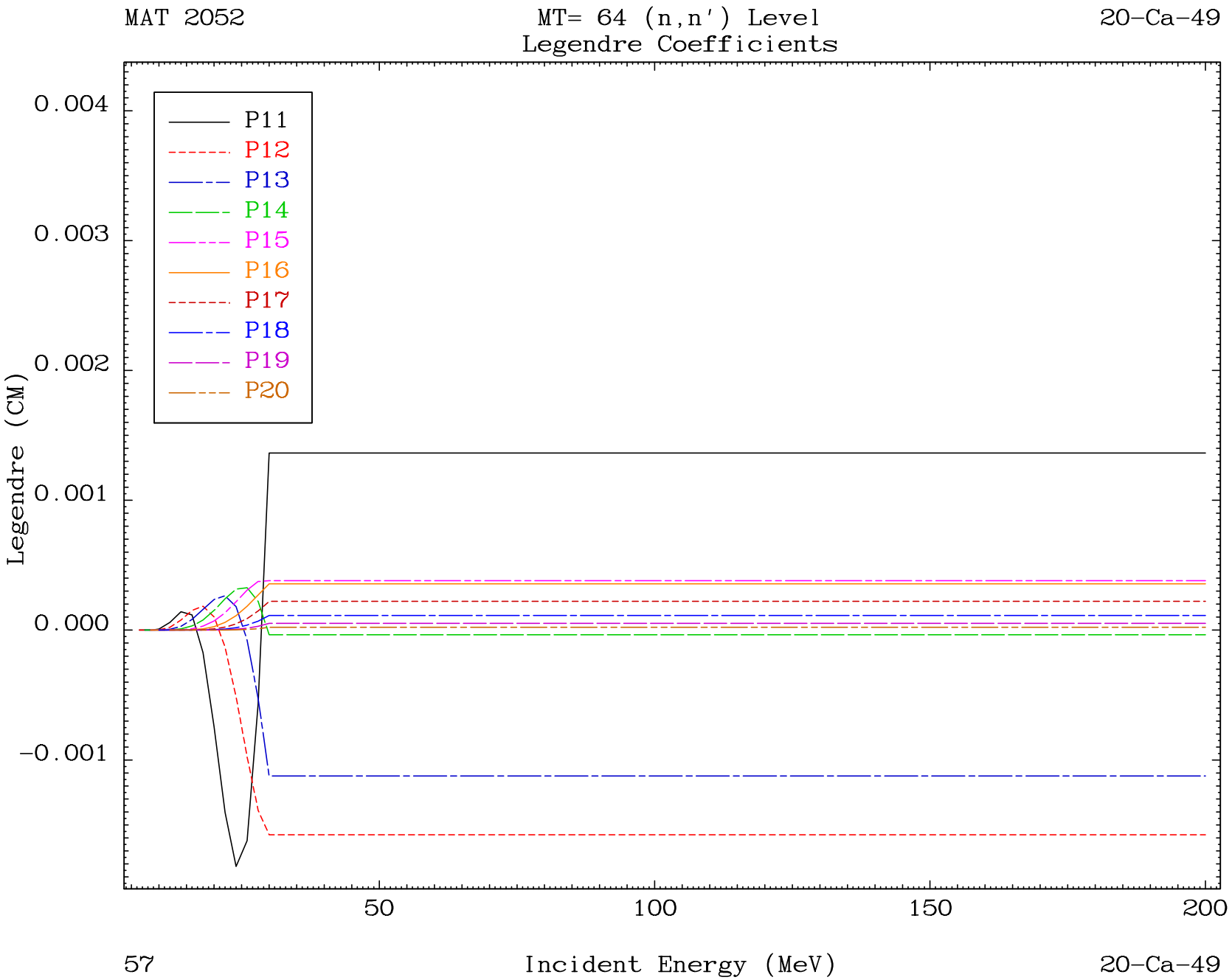

MAT 2052
MT= 62 (n,n') Level
Legendre Coefficients
20-Ca-49
X10^-6
8
6
4
2
0
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
50
100
150
200
52
Incident Energy (MeV)
20-Ca-49

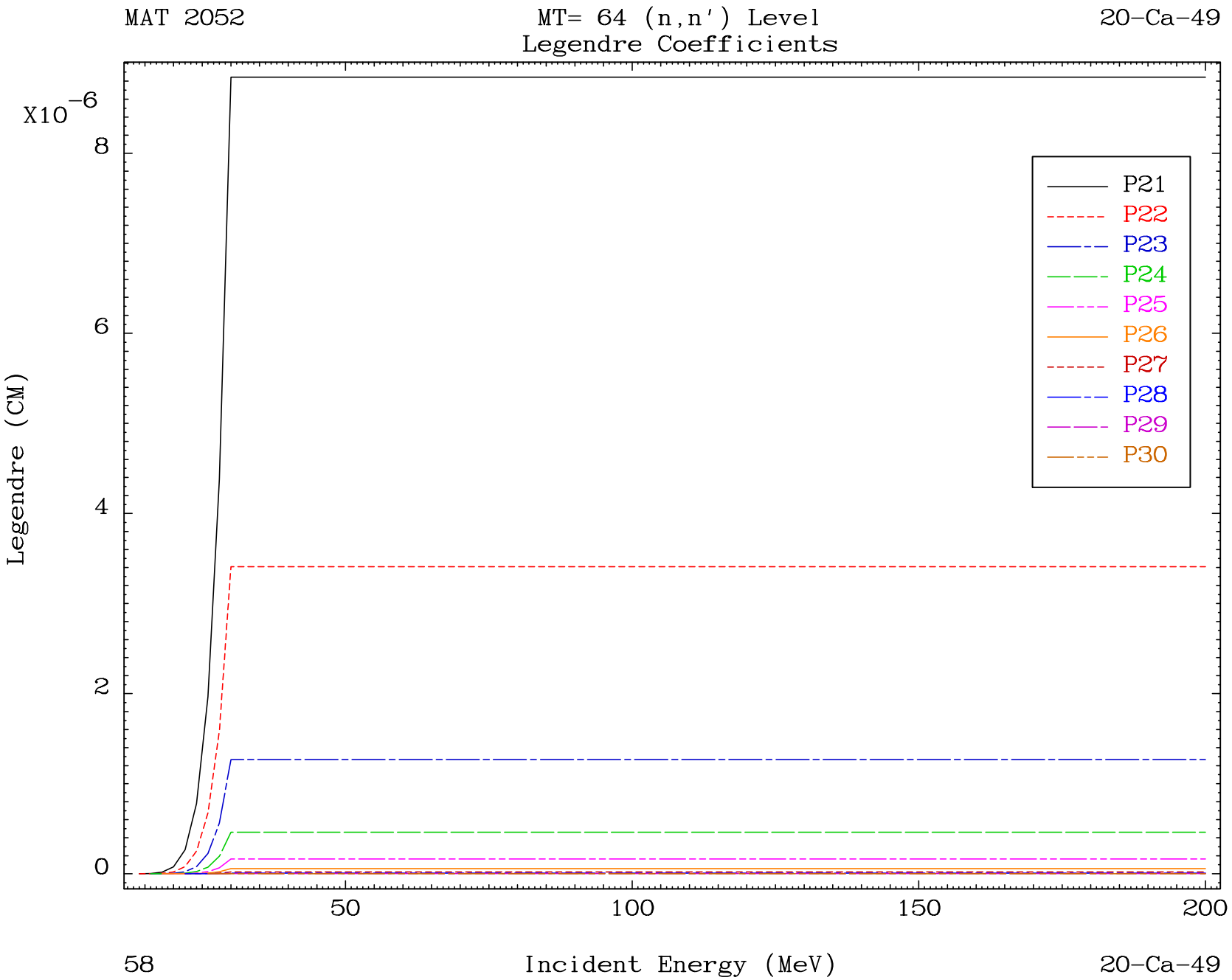

MAT 2052
MT= 63 (n,n') Level
Legendre Coefficients
20-Ca-49
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
53
Incident Energy (MeV)
20-Ca-49

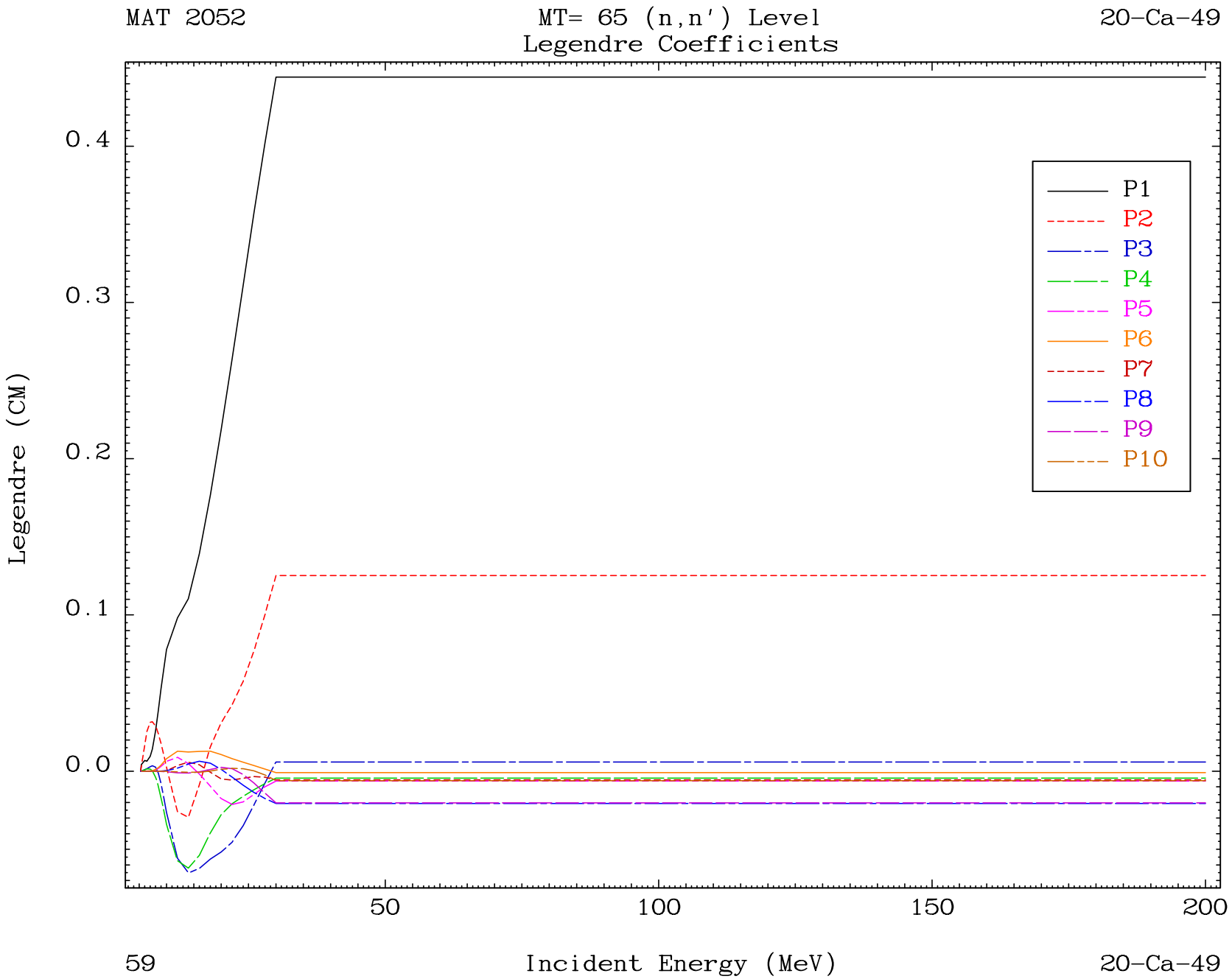

MAT 2052
MT= 63 (n,n') Level
Legendre Coefficients
20-Ca-49
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.004
0.003
0.002
0.001
0.000
-0.001
Legendre (CM)
50
100
150
200
54
Incident Energy (MeV)
20-Ca-49

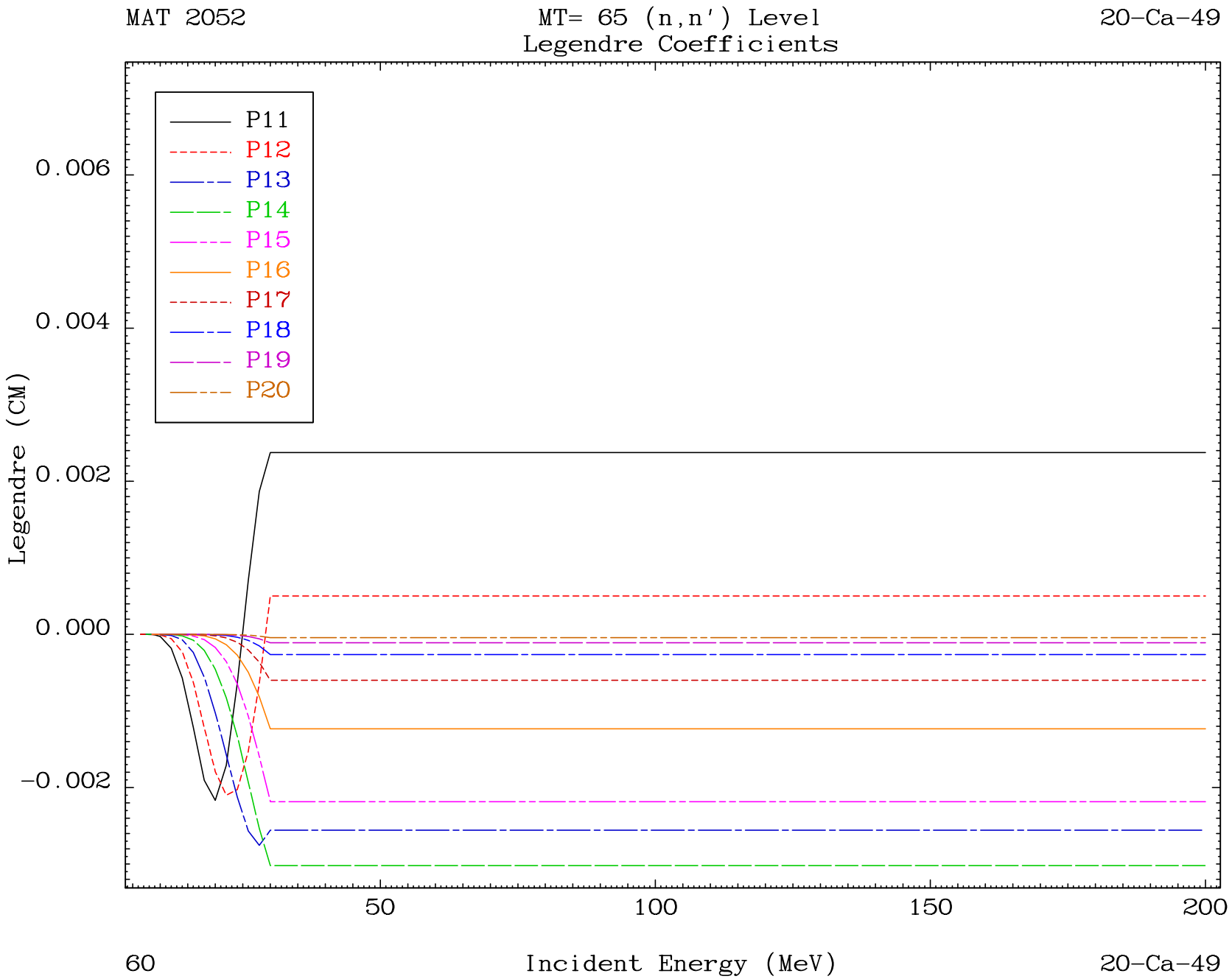

MAT 2052
MT= 63 (n,n') Level
Legendre Coefficients
20-Ca-49
X10^-6
8
6
4
2
0
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
50
100
150
200
55
Incident Energy (MeV)
20-Ca-49

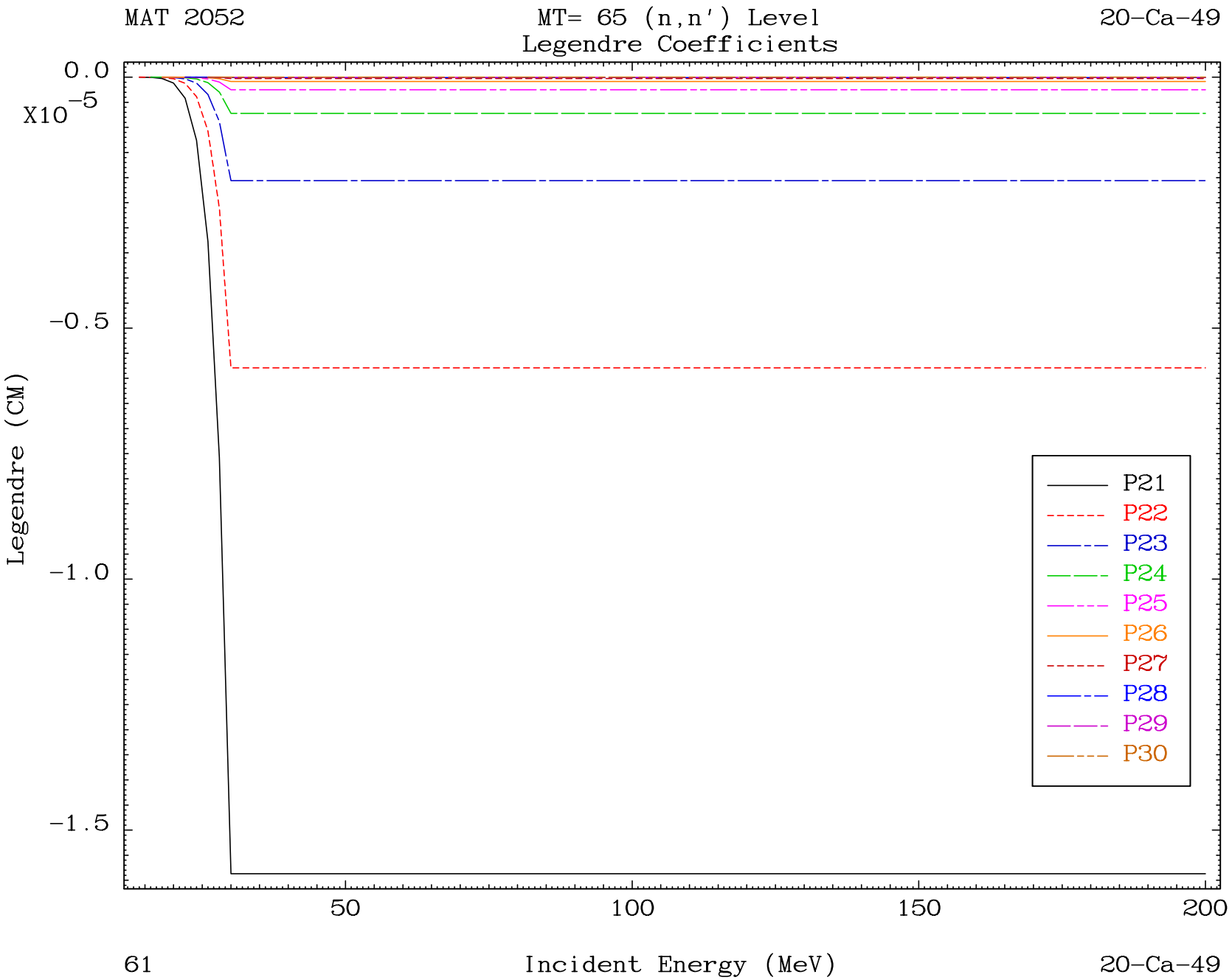

MAT 2052
MT= 64 (n,n') Level
Legendre Coefficients
20-Ca-49
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
56
Incident Energy (MeV)
20-Ca-49

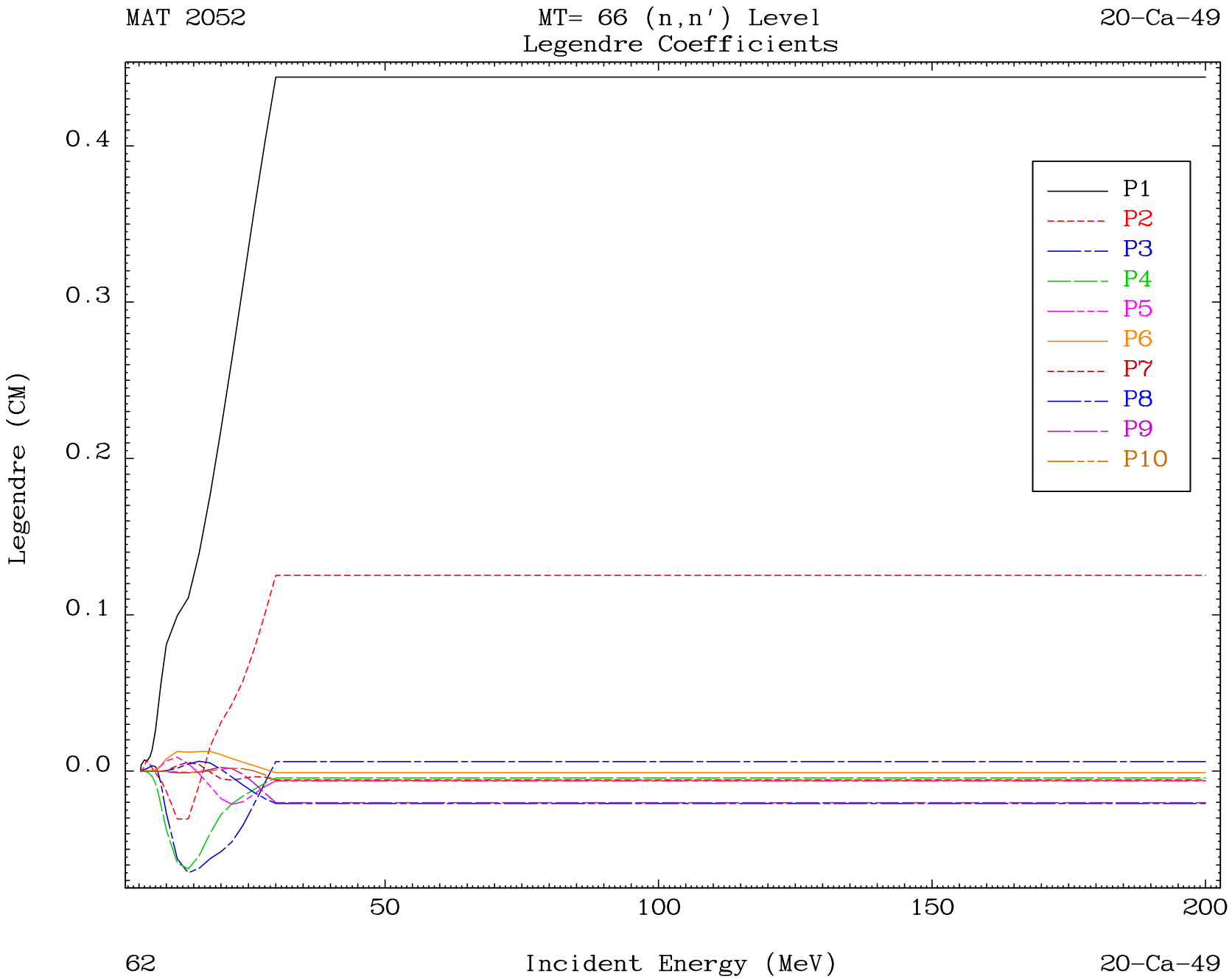

MAT 2052
MT= 64 (n,n') Level
Legendre Coefficients
20-Ca-49
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.004
0.003
0.002
0.001
0.000
-0.001
Legendre (CM)
50
100
150
200
57
Incident Energy (MeV)
20-Ca-49

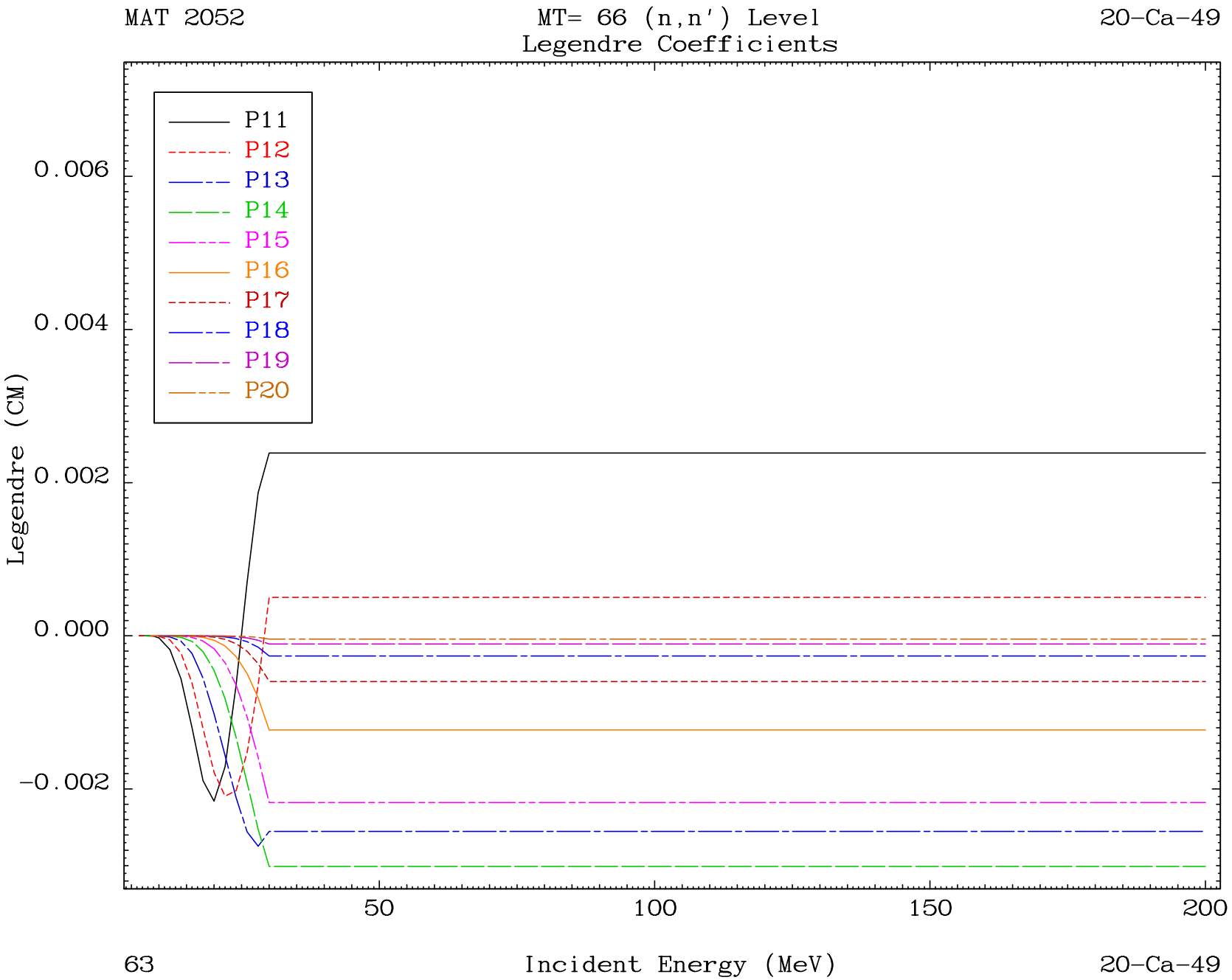

MAT 2052
MT= 64 (n,n') Level
Legendre Coefficients
20-Ca-49
X10^-6
8
6
4
2
0
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
50
100
150
200
58
Incident Energy (MeV)
20-Ca-49

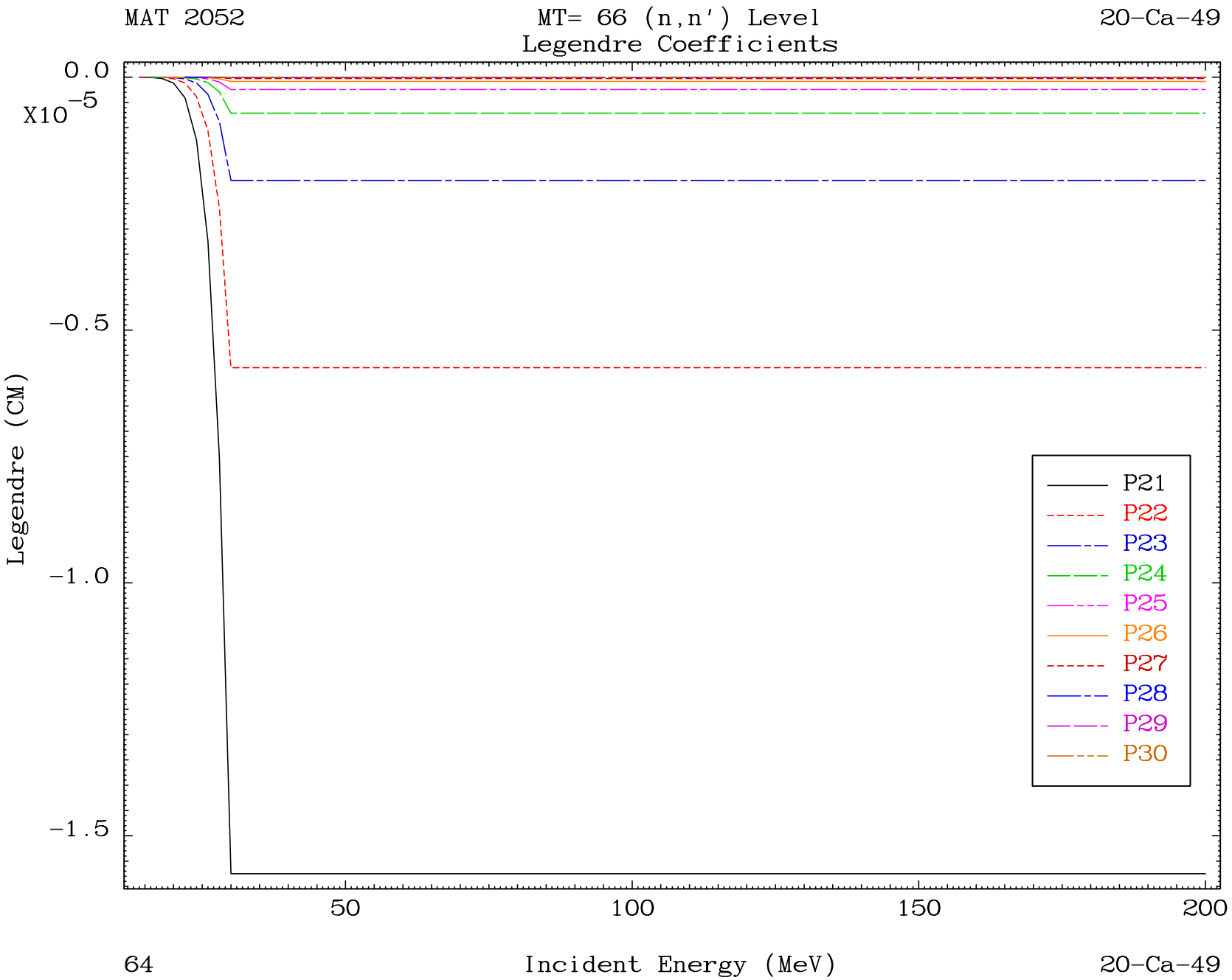

MAT 2052
MT= 65 (n,n') Level
Legendre Coefficients
20-Ca-49
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
59
Incident Energy (MeV)
20-Ca-49

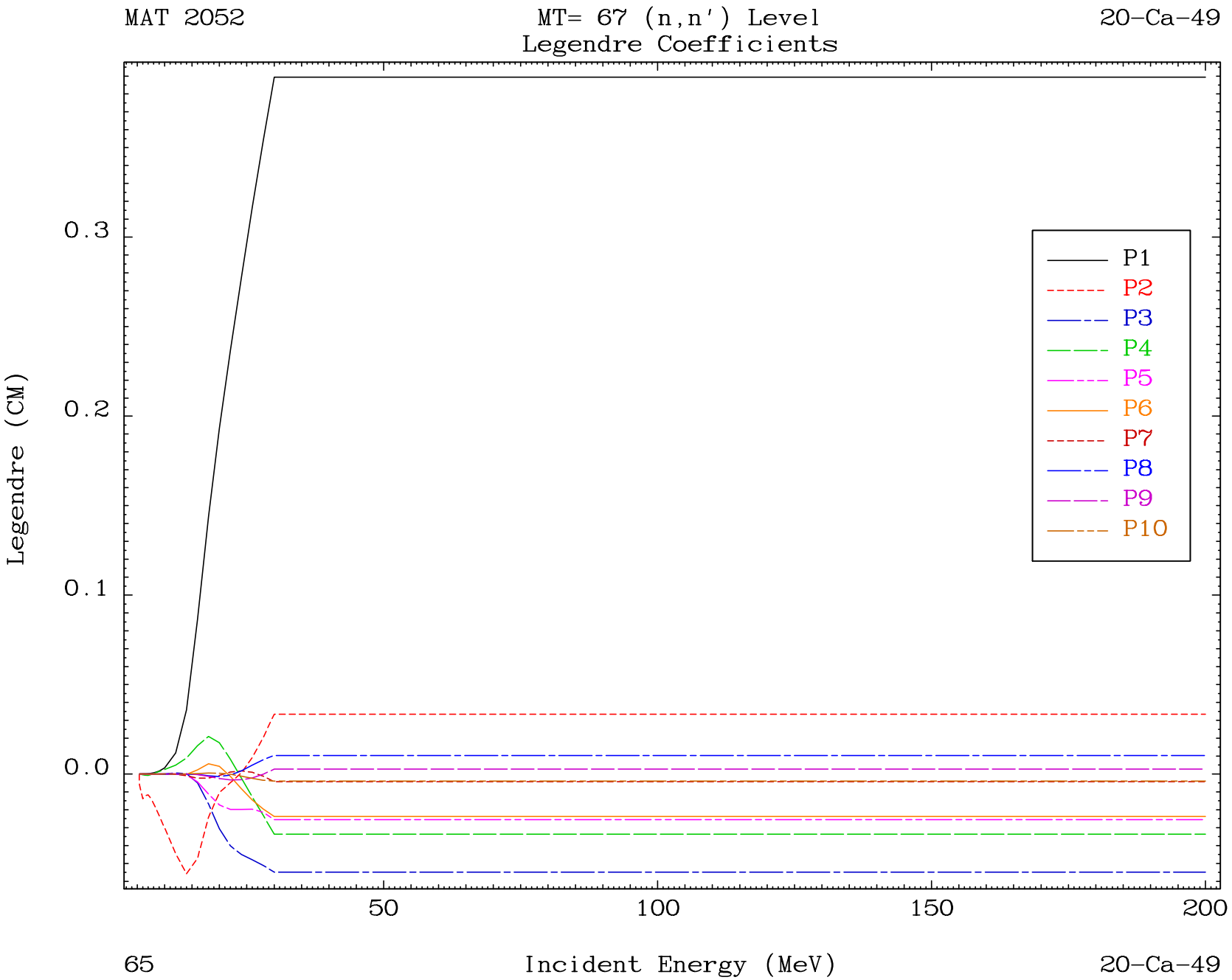

MAT 2052
MT= 65 (n,n') Level
Legendre Coefficients
20-Ca-49
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.006
0.004
0.002
0.000
-0.002
Legendre (CM)
50
100
150
200
60
Incident Energy (MeV)
20-Ca-49

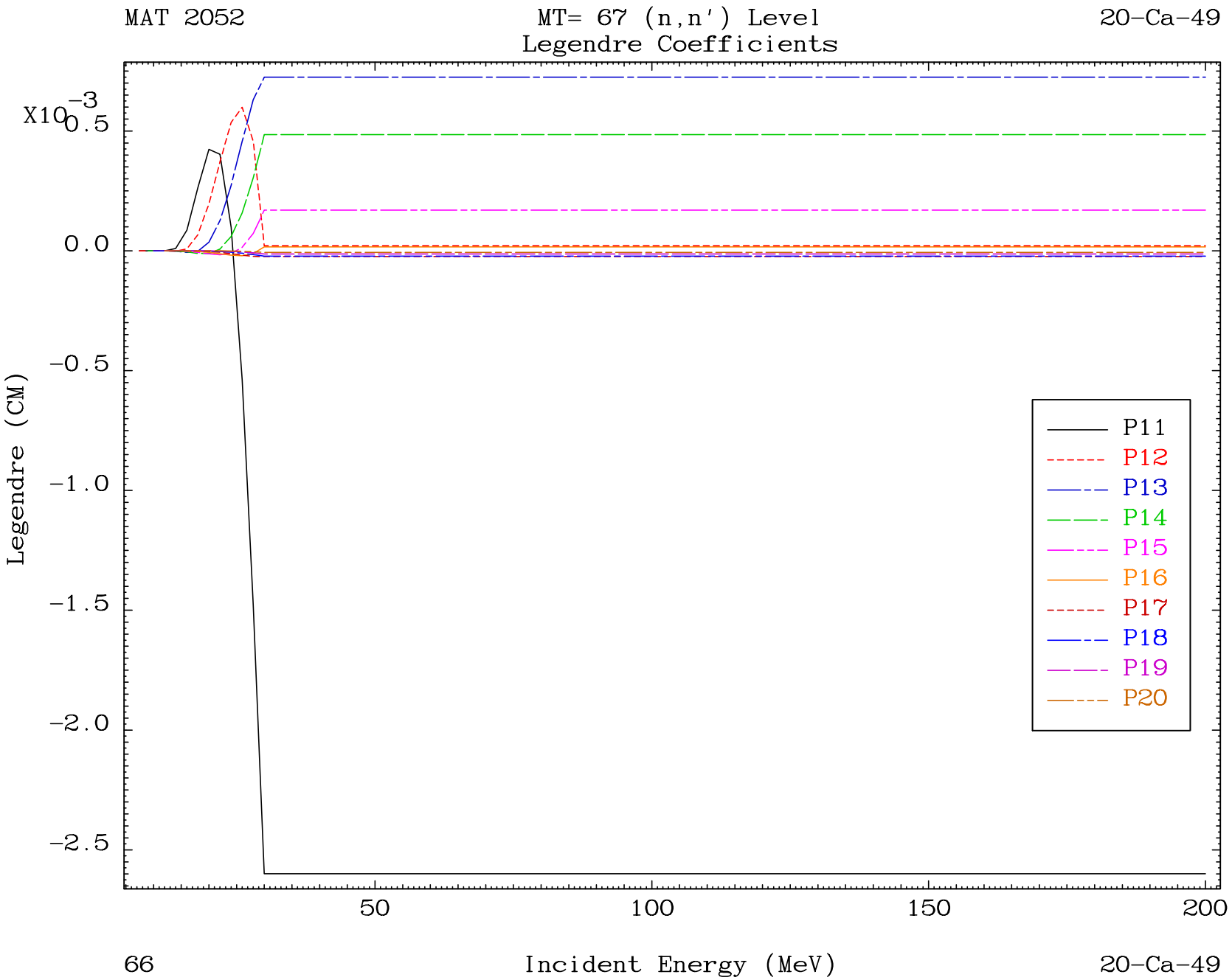

MAT 2052
MT= 65 (n,n') Level
Legendre Coefficients
20-Ca-49
0.0
X10^-5
-0.5
-1.0
-1.5
Legendre (CM)
50
100
150
200
61
Incident Energy (MeV)
20-Ca-49
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30

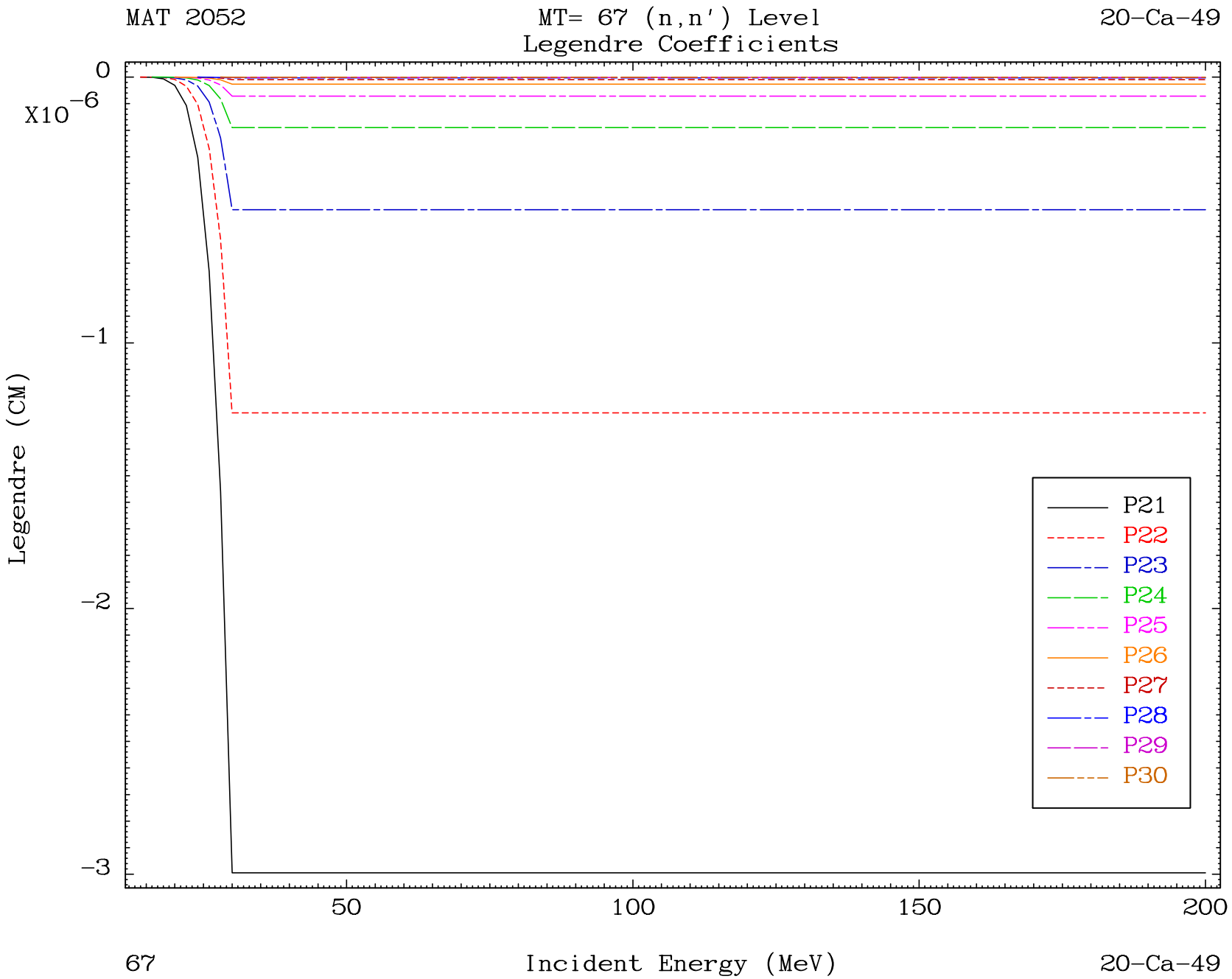

MAT 2052
MT= 66 (n,n') Level
Legendre Coefficients
20-Ca-49
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
50
100
150
200
62
Incident Energy (MeV)
20-Ca-49
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10

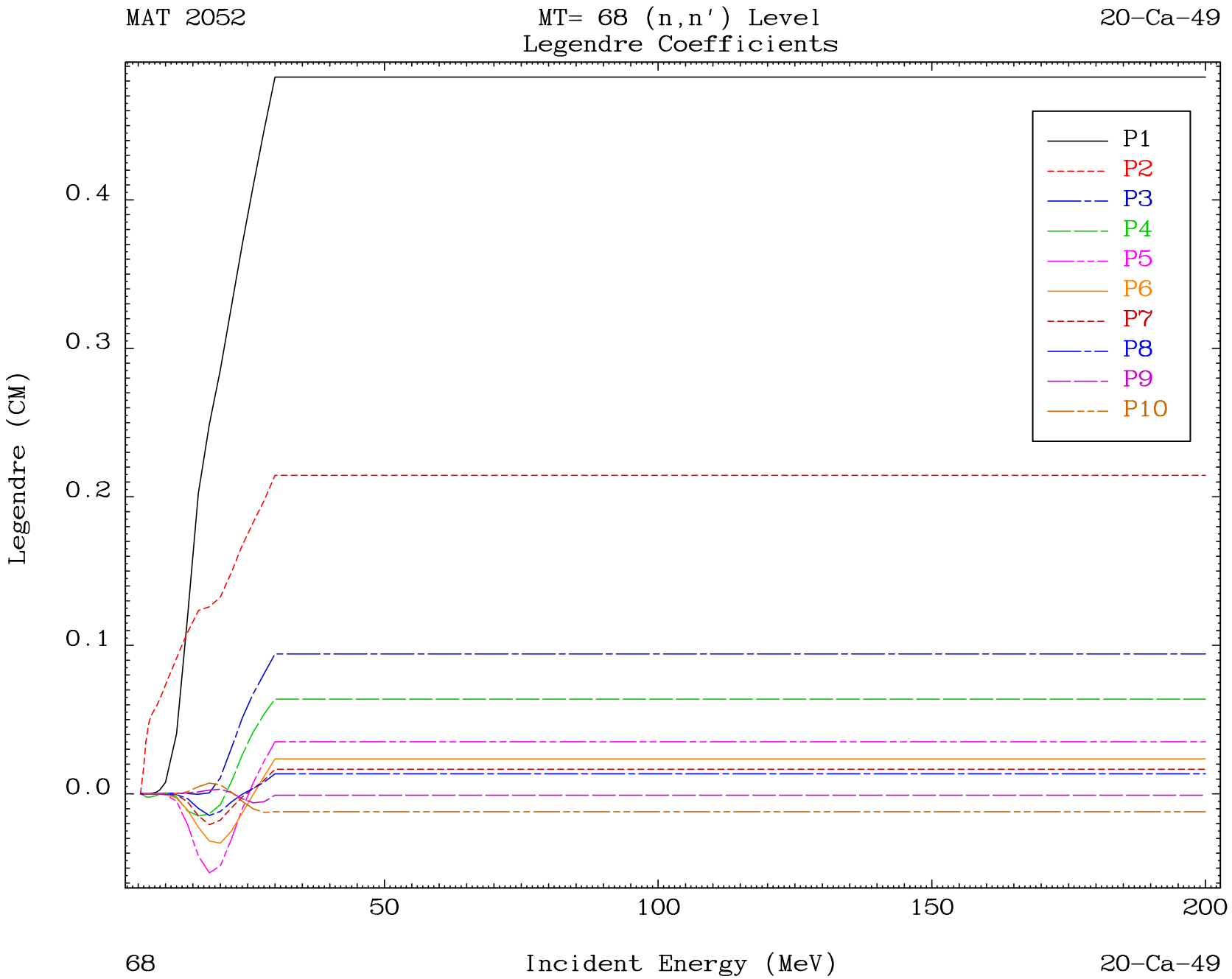

MAT 2052
MT= 66 (n,n') Level
Legendre Coefficients
20-Ca-49
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.006
0.004
0.002
0.000
-0.002
Legendre (CM)
50
100
150
200
63
Incident Energy (MeV)
20-Ca-49

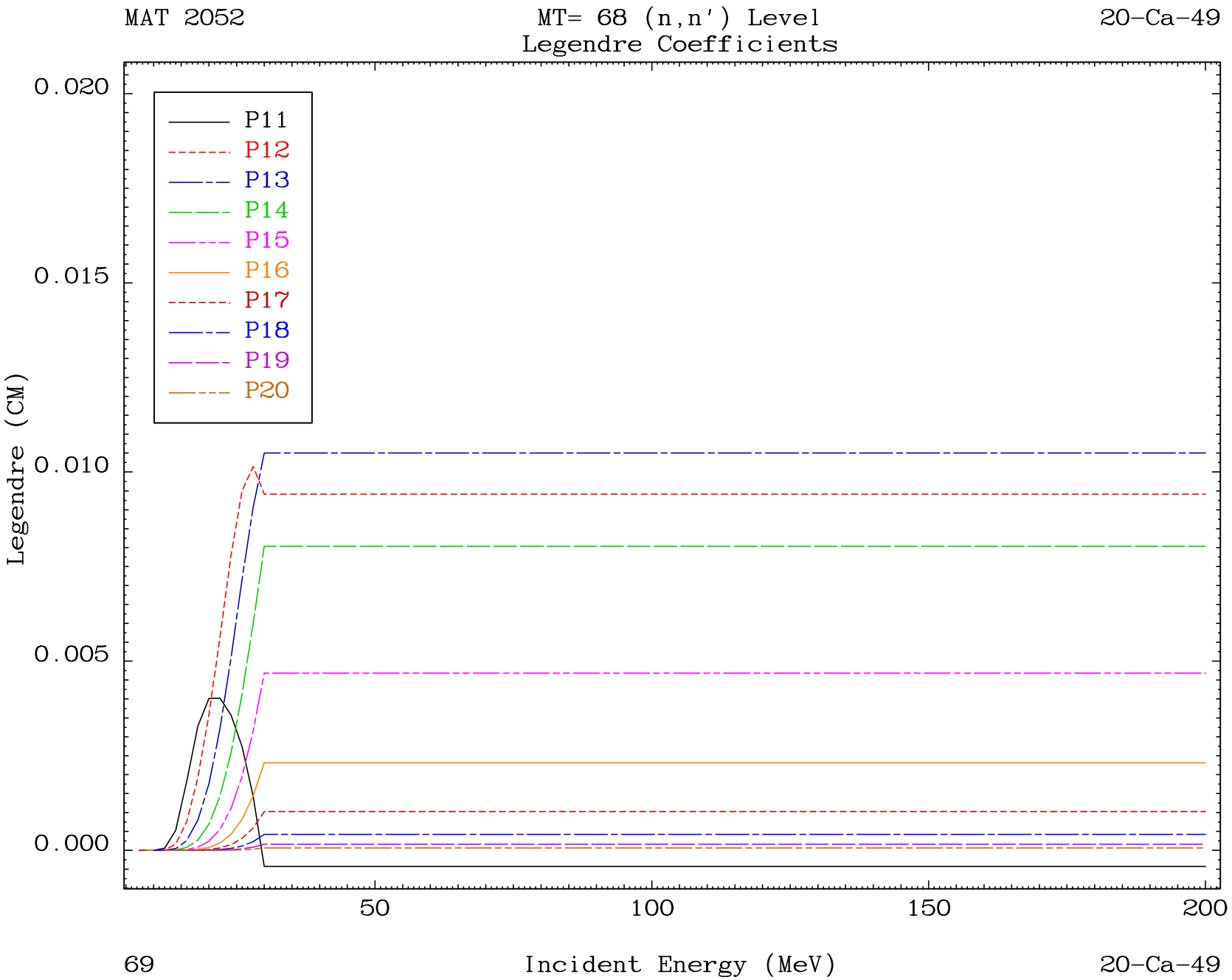

MAT 2052
MT= 66 (n,n') Level
Legendre Coefficients
20-Ca-49
0.0
X10^-5
-0.5
-1.0
-1.5
Legendre (CM)
50
100
150
200
64
Incident Energy (MeV)
20-Ca-49
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30

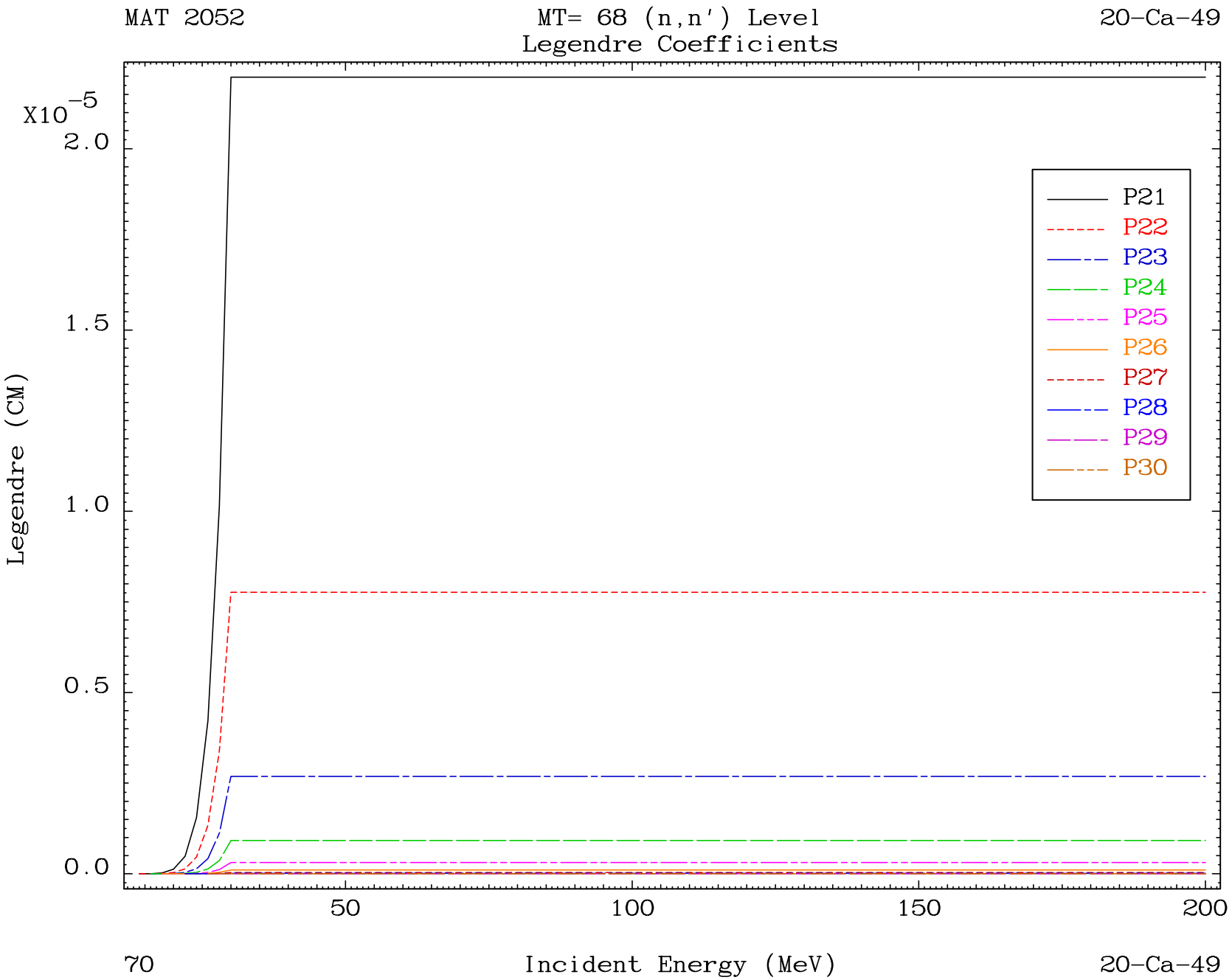

MAT 2052
MT= 67 (n,n') Level
Legendre Coefficients
20-Ca-49
Legendre (CM)
0.3
0.2
0.1
0.0
50
100
150
200
65
Incident Energy (MeV)
20-Ca-49
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10

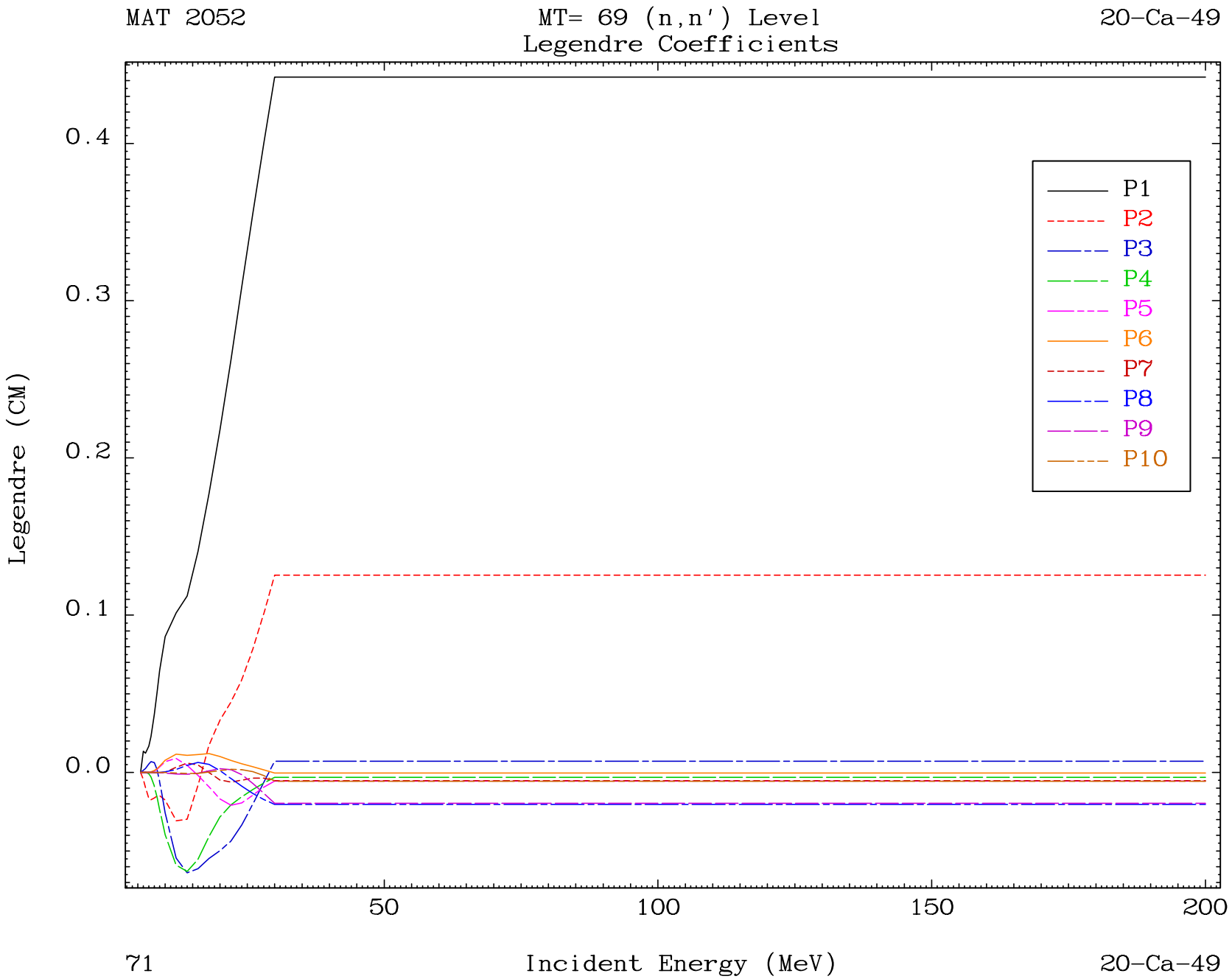

MAT 2052
MT= 67 (n,n') Level
Legendre Coefficients
20-Ca-49
X10-3
0.5
0.0
-0.5
-1.0
-1.5
-2.0
-2.5
Legendre (CM)
50
100
150
200
66
Incident Energy (MeV)
20-Ca-49
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20

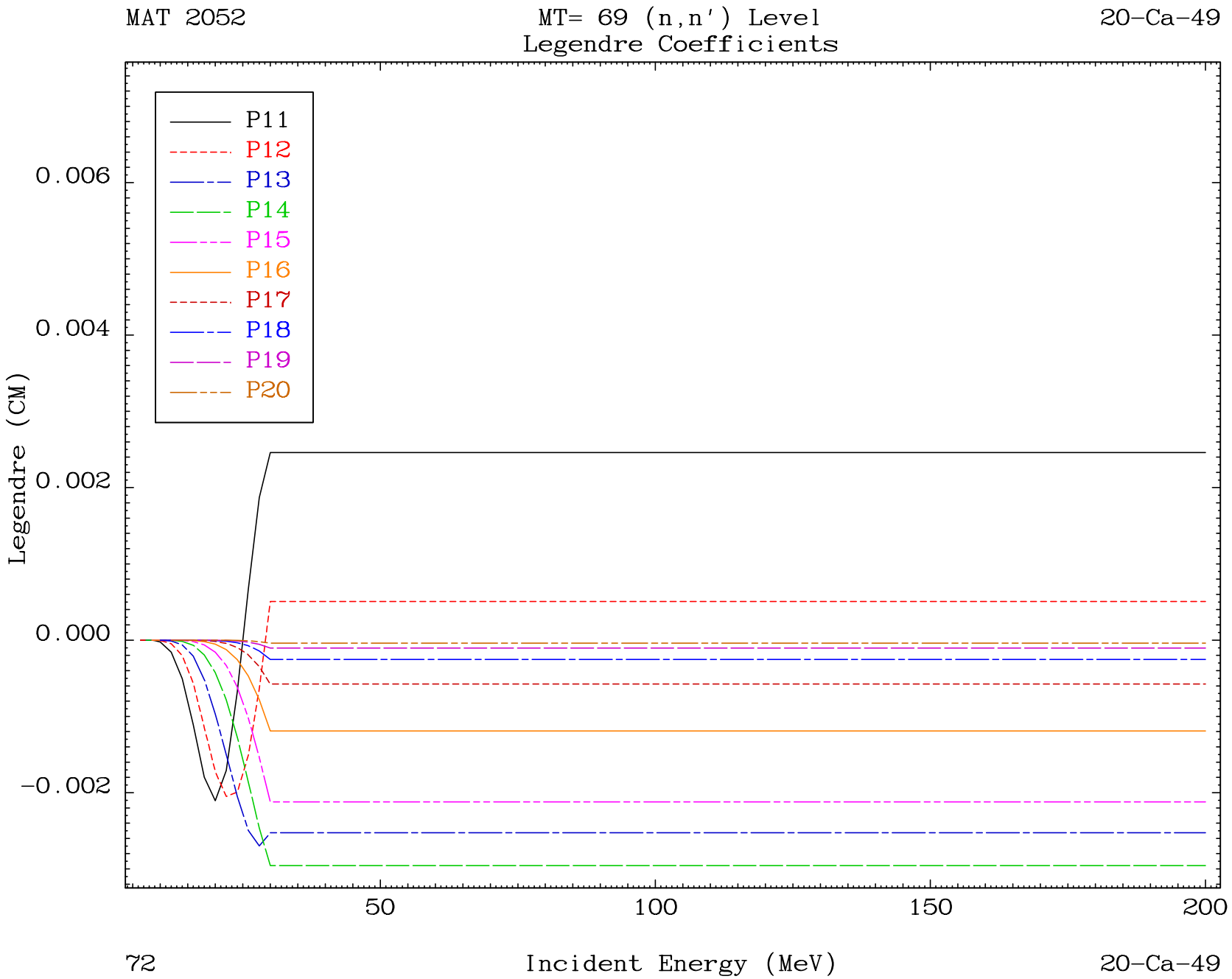

MAT 2052
MT= 67 (n,n') Level
Legendre Coefficients
20-Ca-49
0
X10^-6
-1
-2
-3
Legendre (CM)
50
100
150
200
67
Incident Energy (MeV)
20-Ca-49
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30

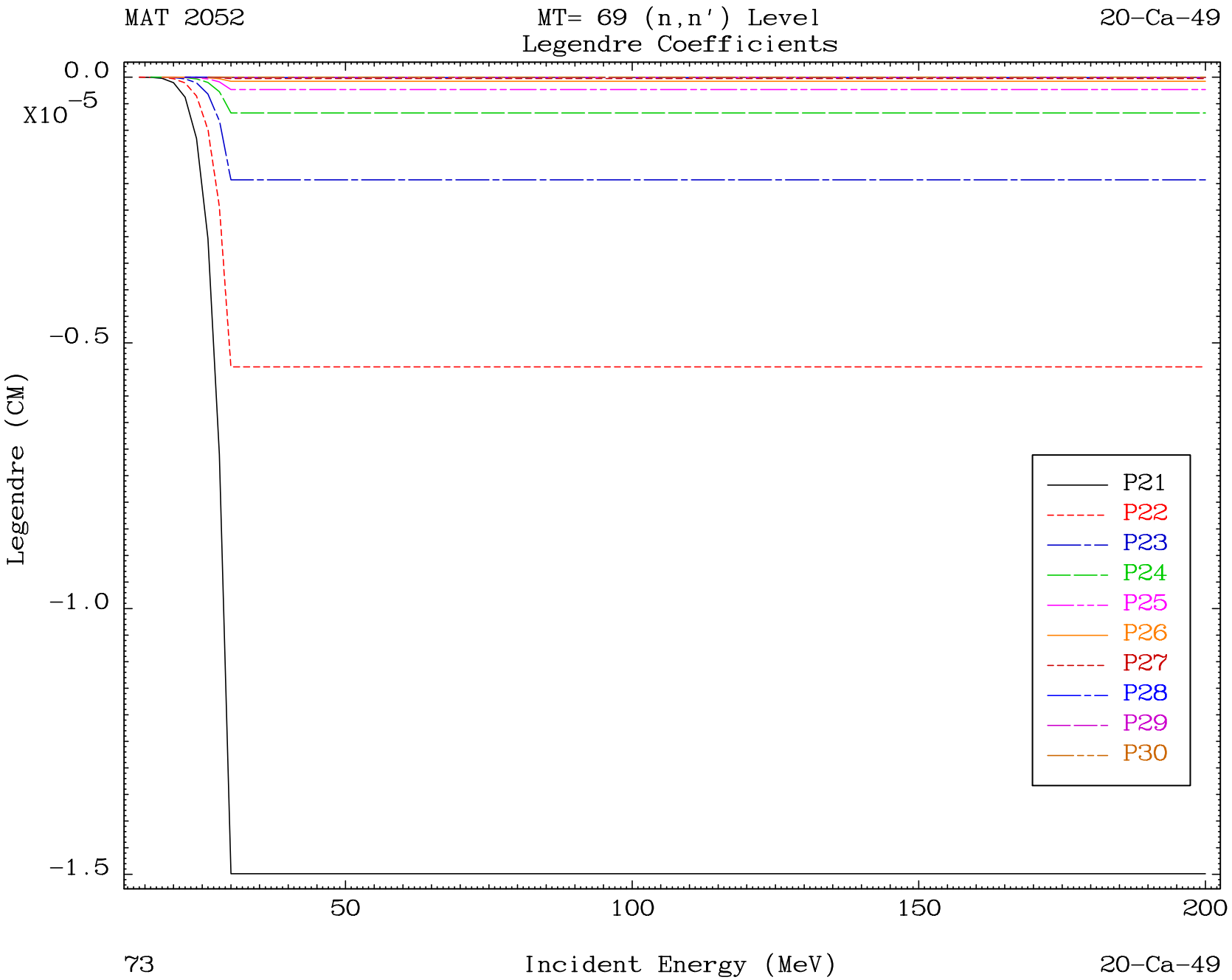

MAT 2052
MT= 68 (n,n') Level
Legendre Coefficients
20-Ca-49
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
50
100
150
200
68
Incident Energy (MeV)
20-Ca-49
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10

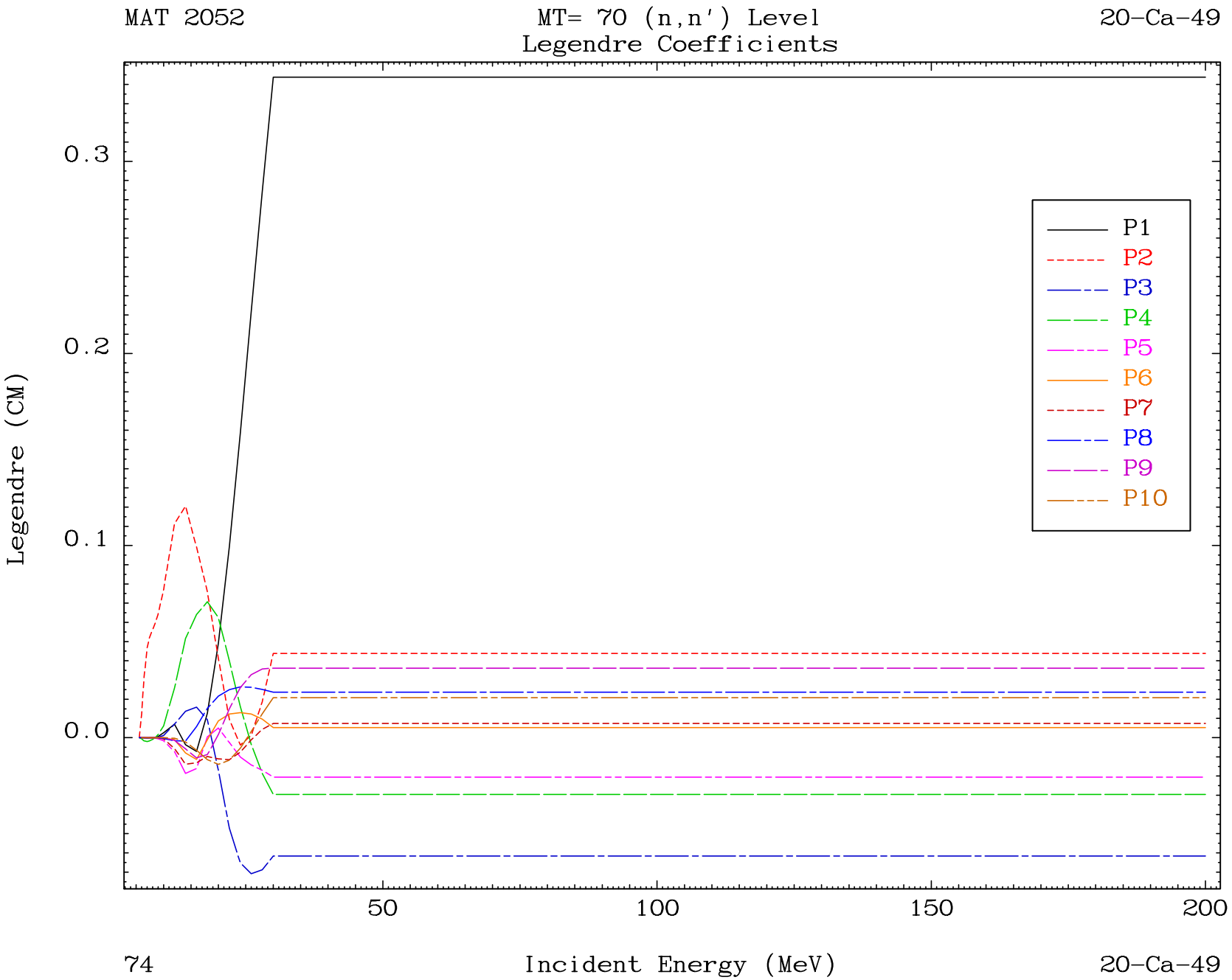

MAT 2052
MT= 68 (n,n') Level
Legendre Coefficients
20-Ca-49
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.020
0.015
0.010
0.005
0.000
Legendre (CM)
50
100
150
200
69
Incident Energy (MeV)
20-Ca-49

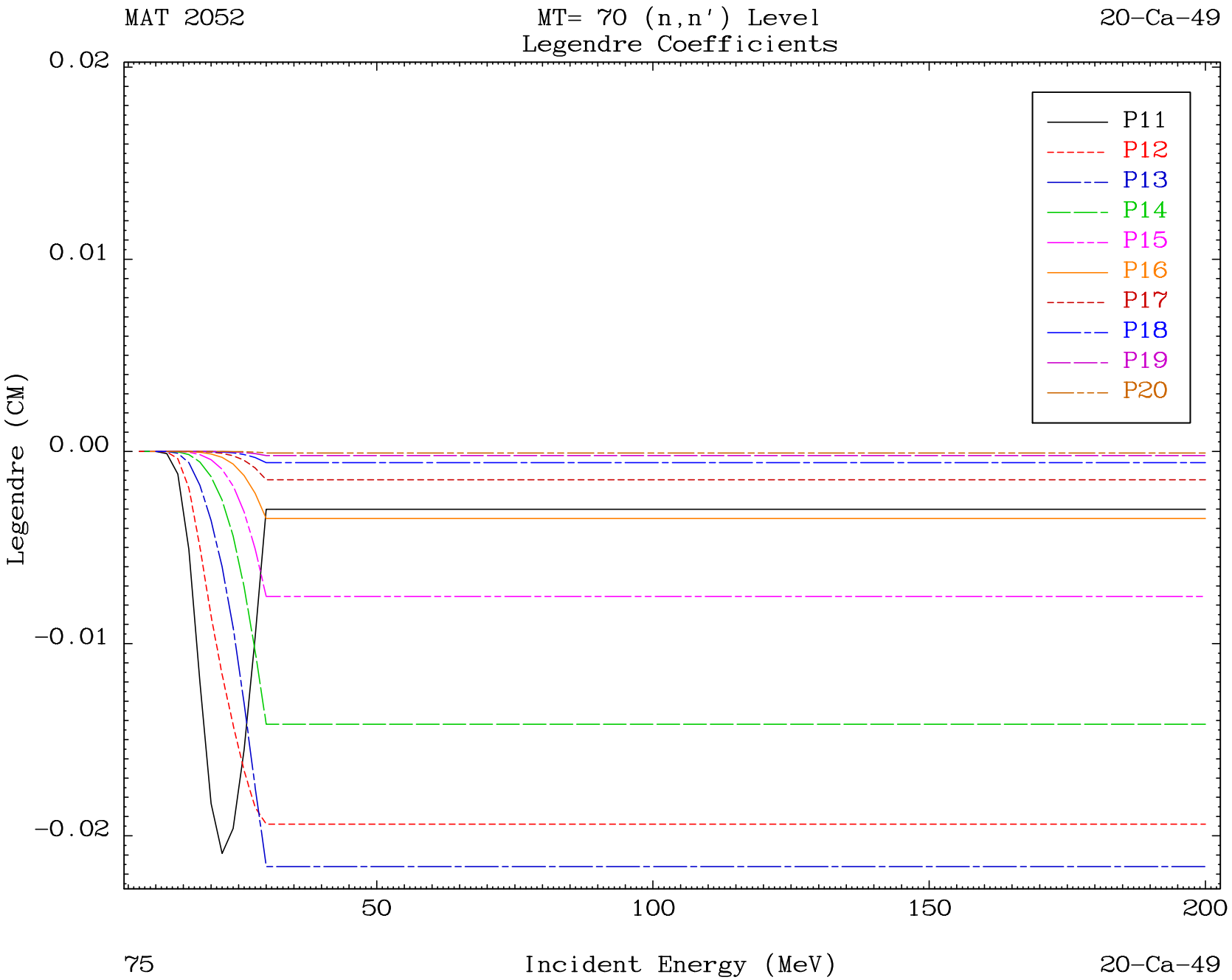

MAT 2052
MT= 68 (n,n') Level
Legendre Coefficients
20-Ca-49
X10-5
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
50
100
150
200
70
Incident Energy (MeV)
20-Ca-49

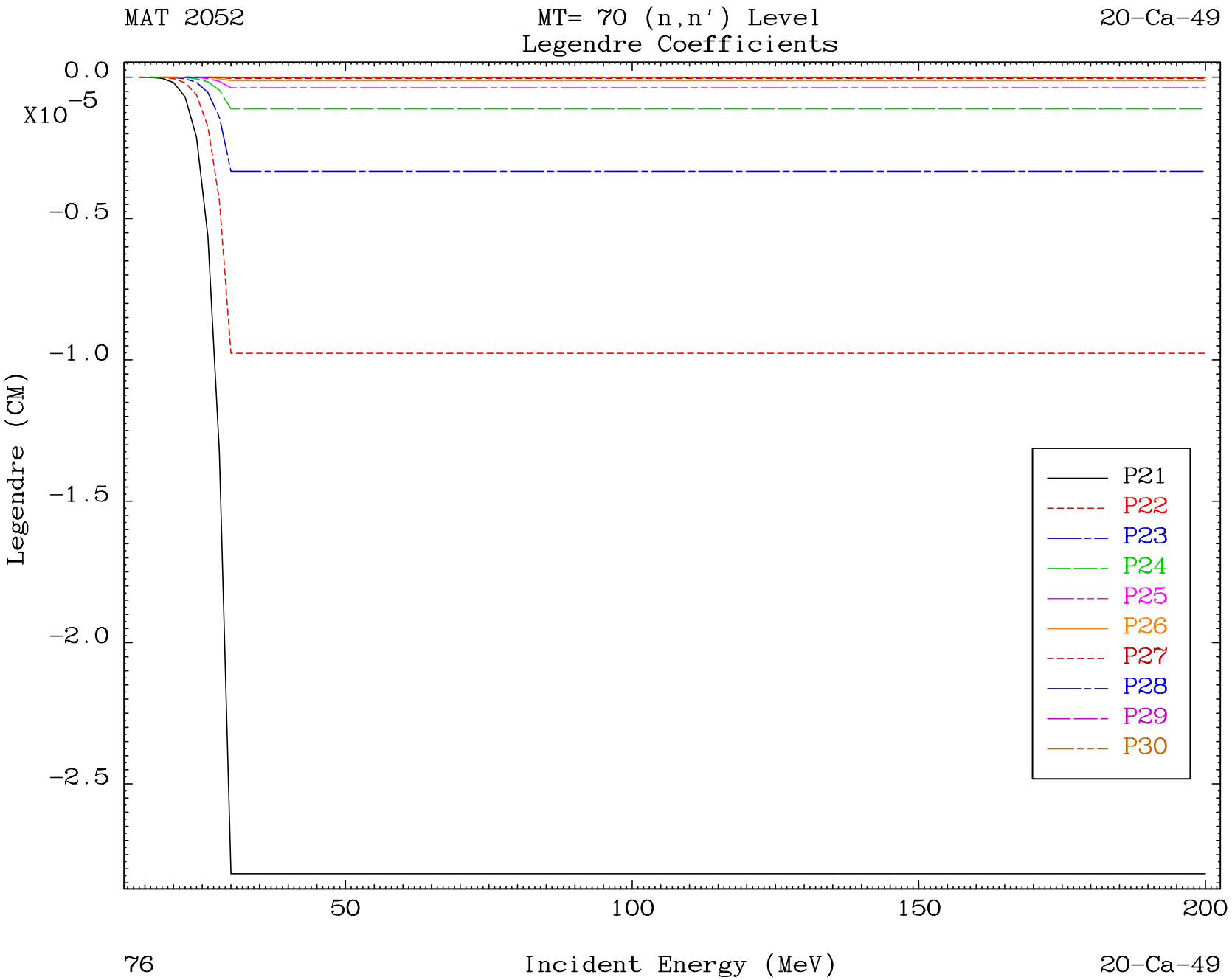

MAT 2052
MT= 69 (n,n') Level
Legendre Coefficients
20-Ca-49
0.4
0.3
0.2
0.1
0.0
Legendre (CM)
50
100
150
200
71
Incident Energy (MeV)
20-Ca-49
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10

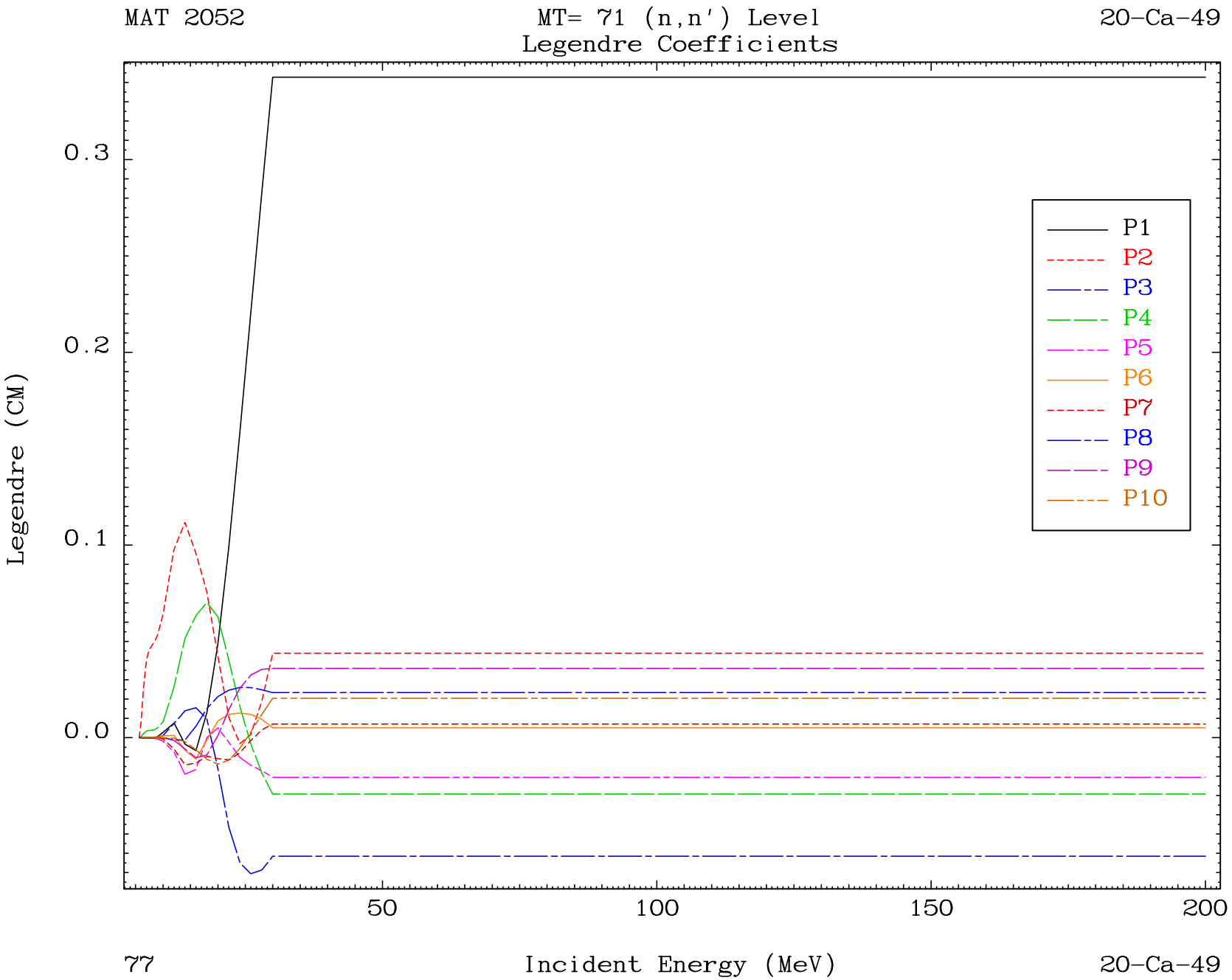

MAT 2052
MT= 69 (n,n') Level
Legendre Coefficients
20-Ca-49
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.006
0.004
0.002
0.000
-0.002
Legendre (CM)
50
100
150
200
72
Incident Energy (MeV)
20-Ca-49

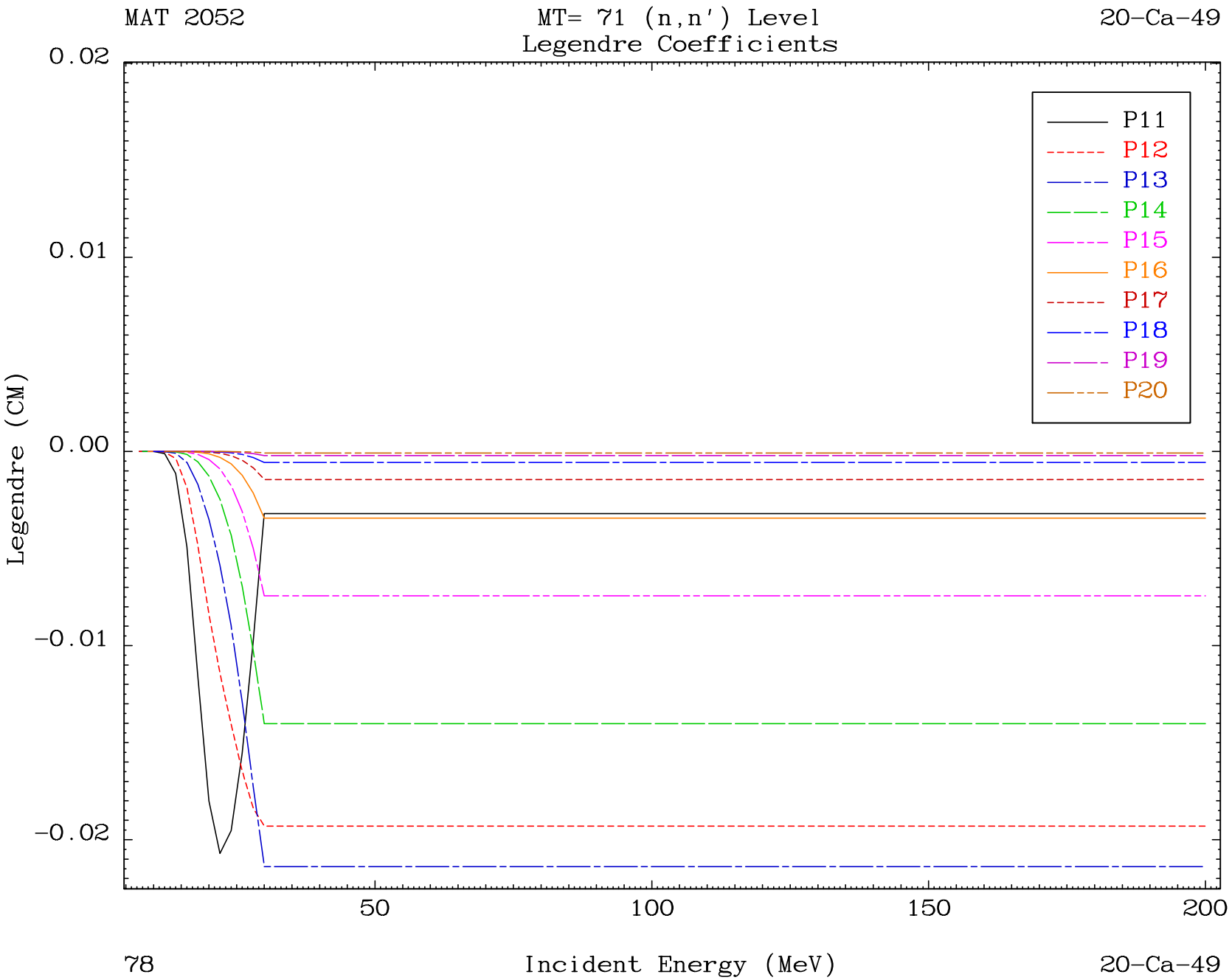

MAT 2052
MT= 69 (n,n') Level
Legendre Coefficients
20-Ca-49
0.0
X10^-5
-0.5
-1.0
-1.5
Legendre (CM)
50
100
150
200
73
Incident Energy (MeV)
20-Ca-49
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30

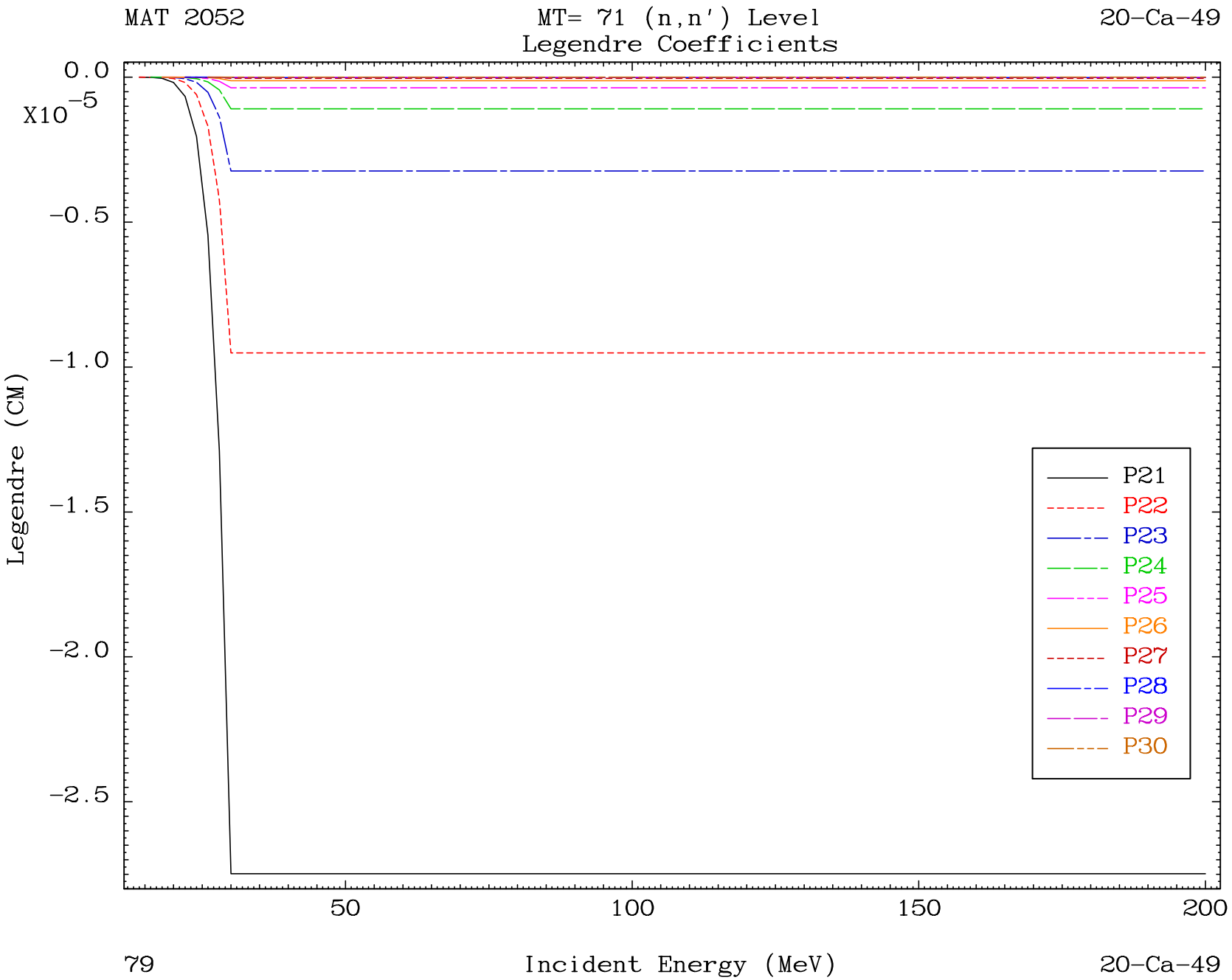

MAT 2052
MT= 70 (n,n') Level
Legendre Coefficients
20-Ca-49
Legendre (CM)
0.3
0.2
0.1
0.0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
74
Incident Energy (MeV)
20-Ca-49

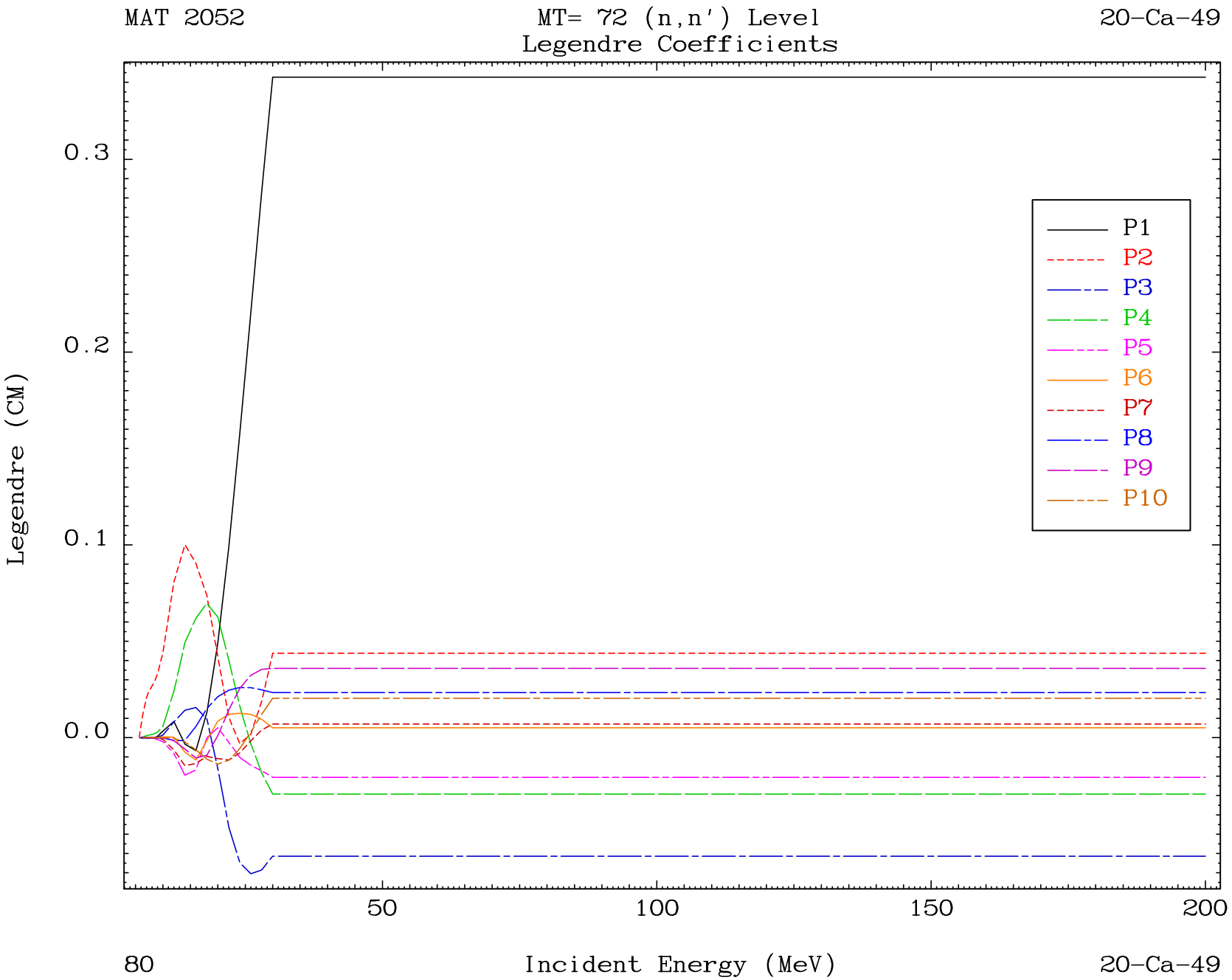

MAT 2052
MT= 70 (n,n') Level
Legendre Coefficients
20-Ca-49
0.02
0.01
0.00
-0.01
-0.02
Legendre (CM)
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
50
100
150
200
75
Incident Energy (MeV)
20-Ca-49

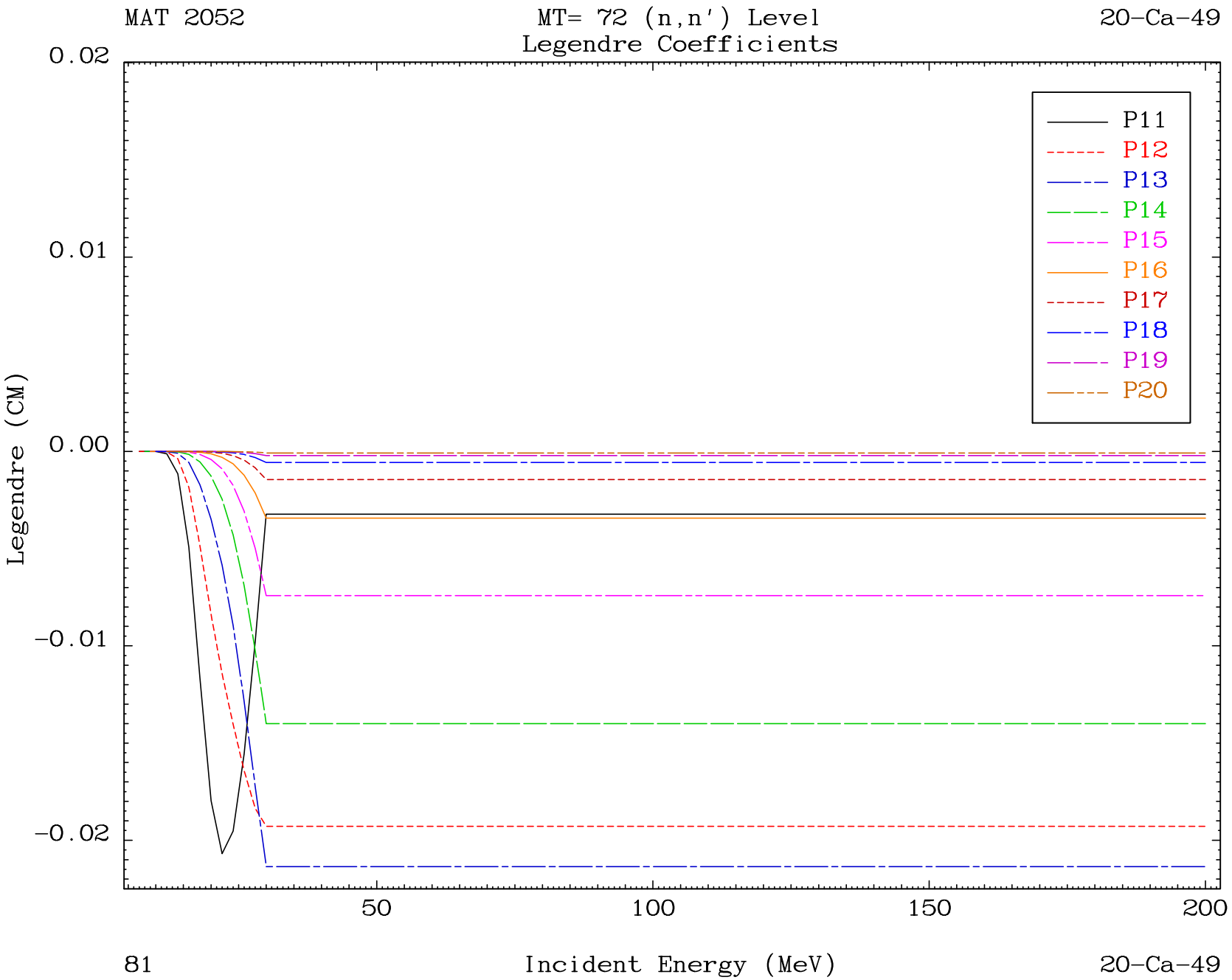

MAT 2052
MT= 70 (n,n') Level
Legendre Coefficients
20-Ca-49
0.0
X10^-5
-0.5
-1.0
-1.5
-2.0
-2.5
Legendre (CM)
50
100
150
200
76
Incident Energy (MeV)
20-Ca-49
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30

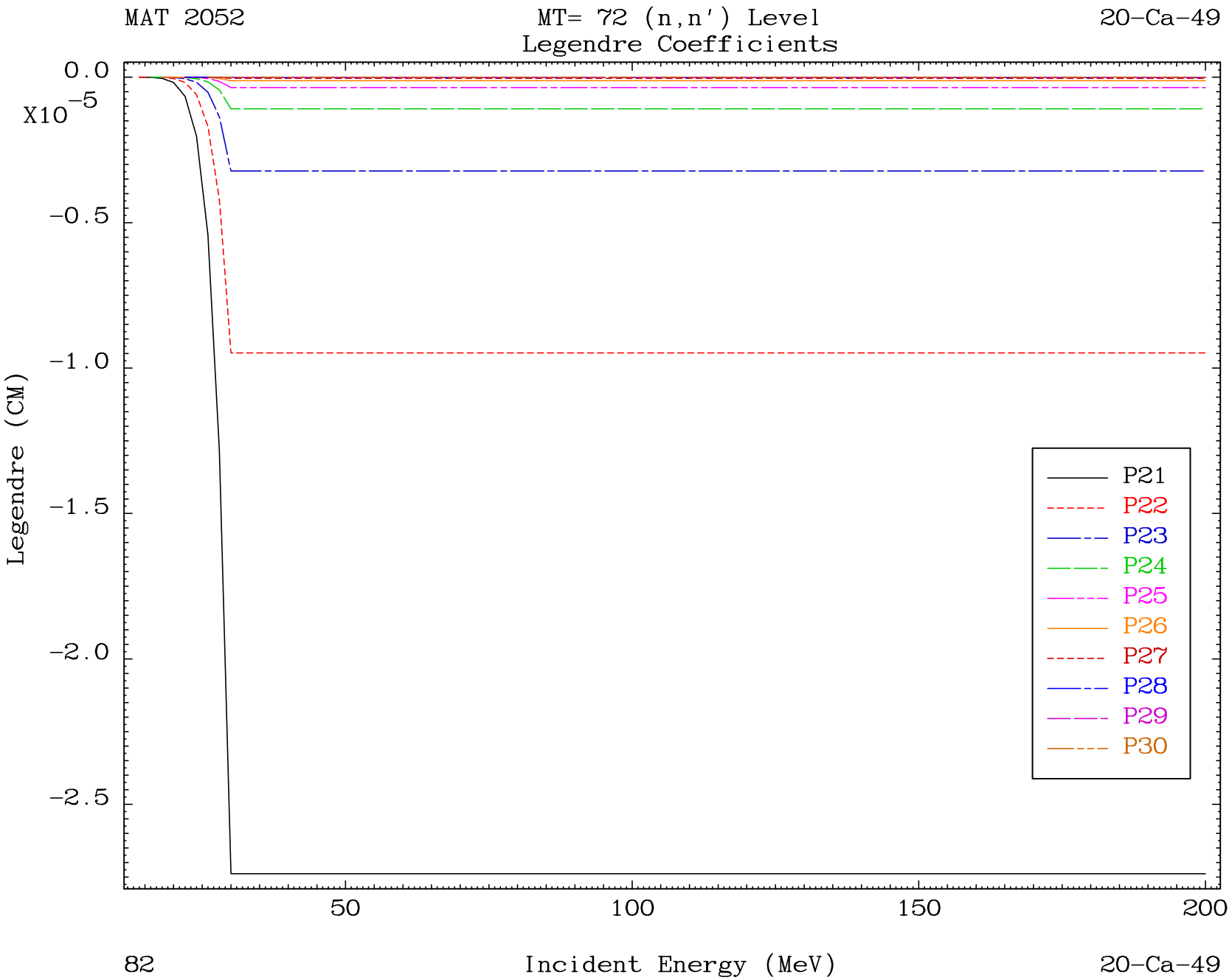

MAT 2052
MT= 71 (n,n') Level
Legendre Coefficients
20-Ca-49
Legendre (CM)
0.3
0.2
0.1
0.0
50
100
150
200
77
Incident Energy (MeV)
20-Ca-49
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10

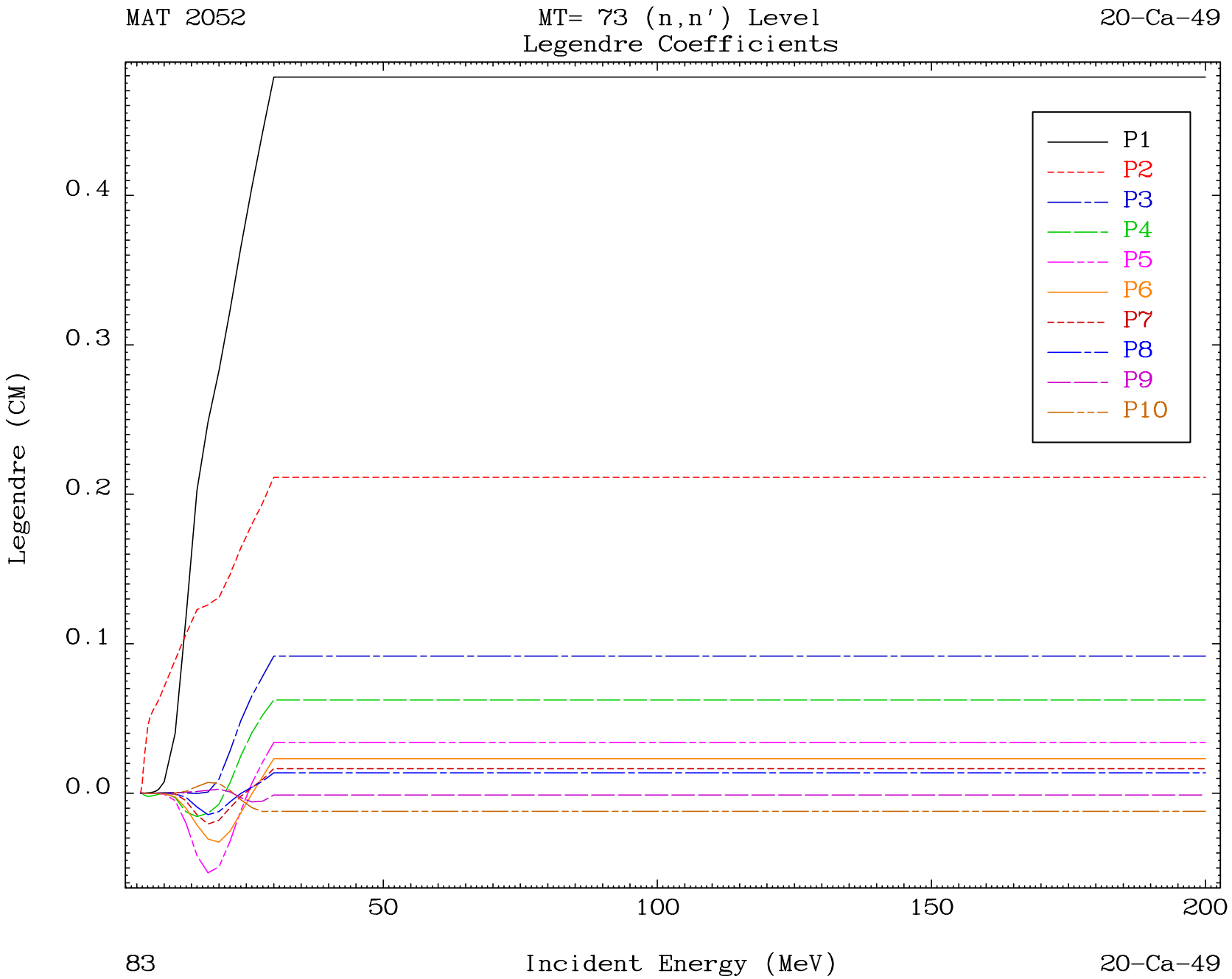

MAT 2052
MT= 71 (n,n') Level
Legendre Coefficients
20-Ca-49
0.02
0.01
0.00
-0.01
-0.02
Legendre (CM)
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
50
100
150
200
78
Incident Energy (MeV)
20-Ca-49

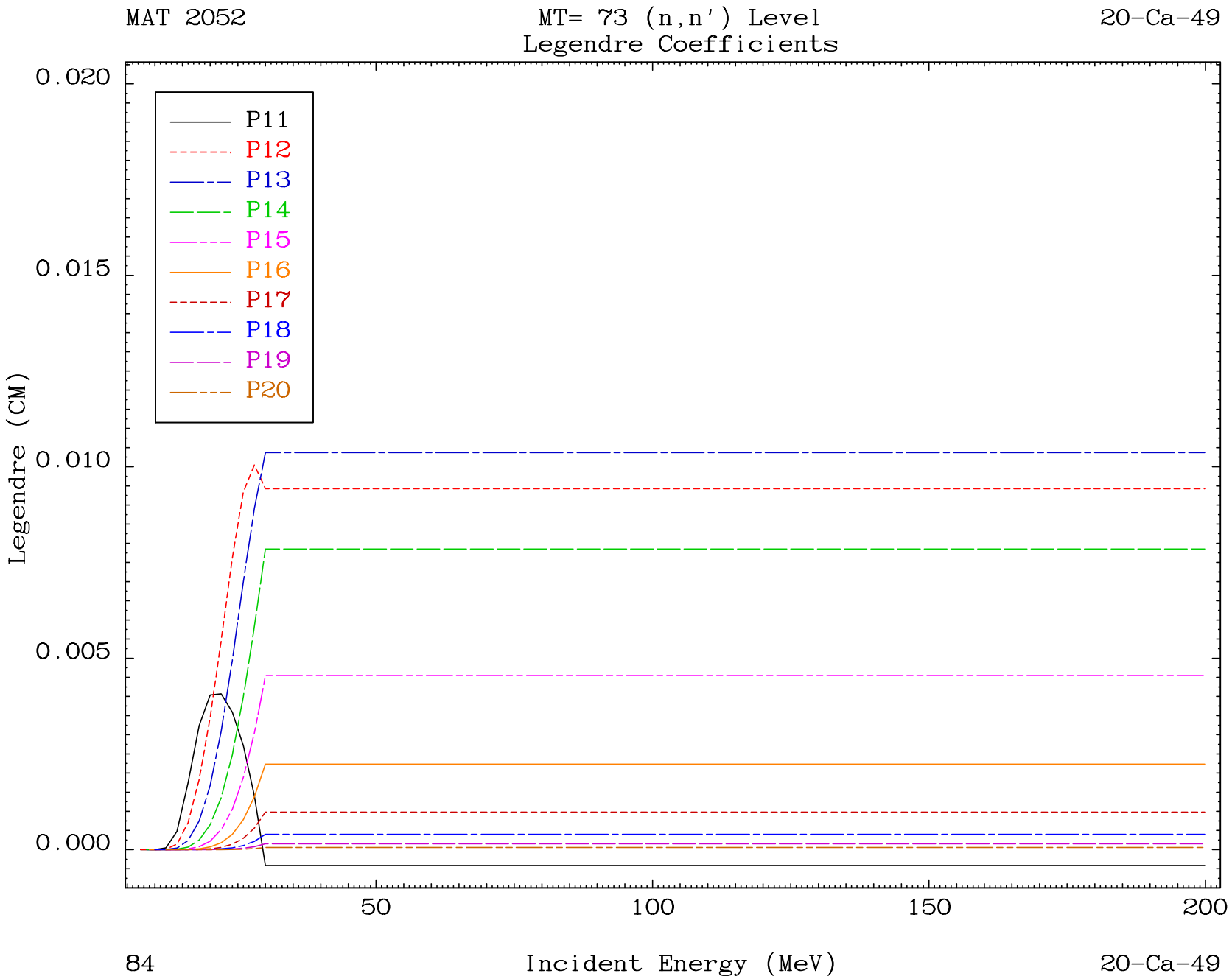

MAT 2052
MT= 71 (n,n') Level
Legendre Coefficients
20-Ca-49
0.0
X10^-5
-0.5
-1.0
-1.5
-2.0
-2.5
Legendre (CM)
50
100
150
200
79
Incident Energy (MeV)
20-Ca-49
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30

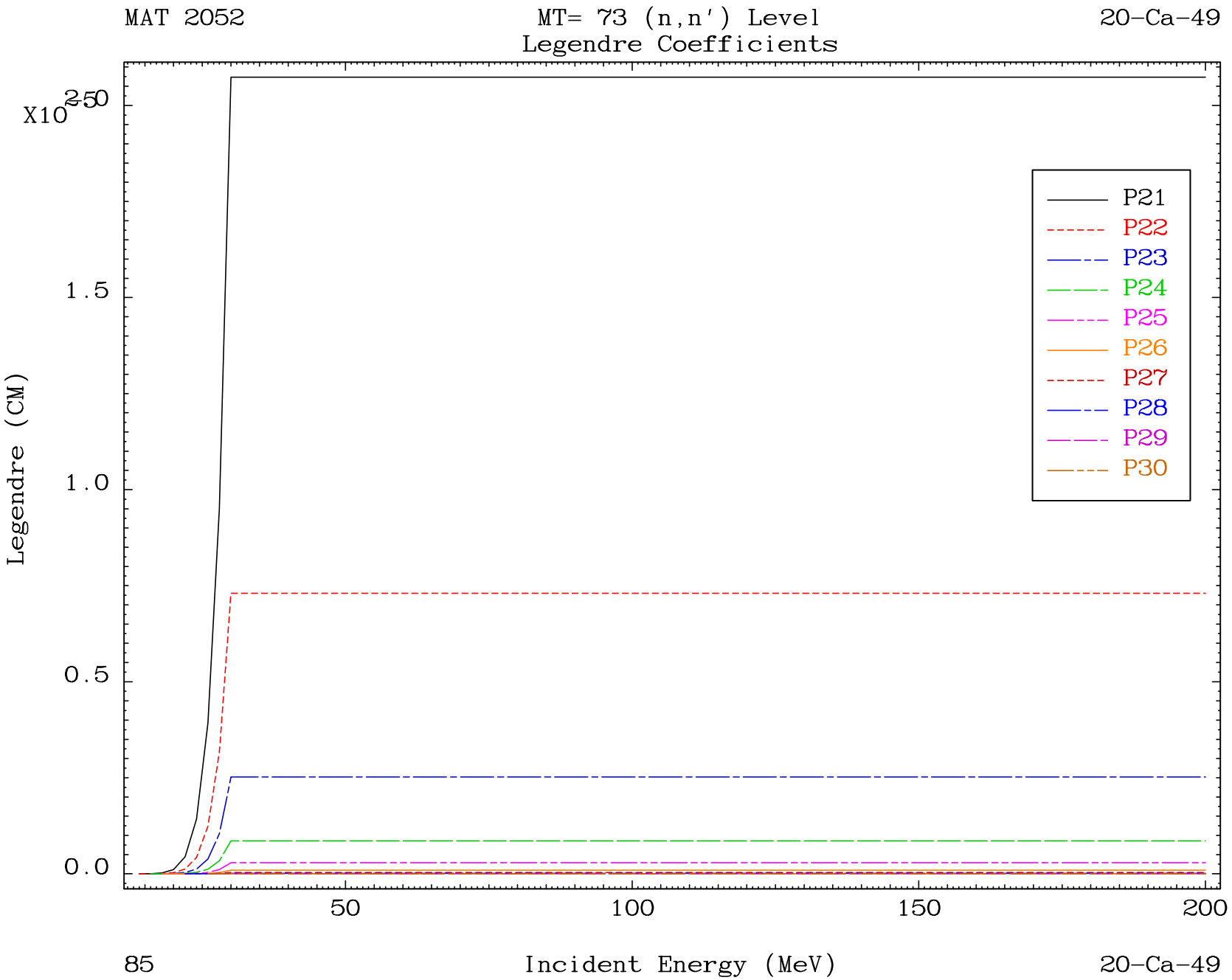

MAT 2052
MT= 72 (n,n') Level
Legendre Coefficients
20-Ca-49
Legendre (CM)
0.3
0.2
0.1
0.0
50
100
150
200
80
Incident Energy (MeV)
20-Ca-49
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10

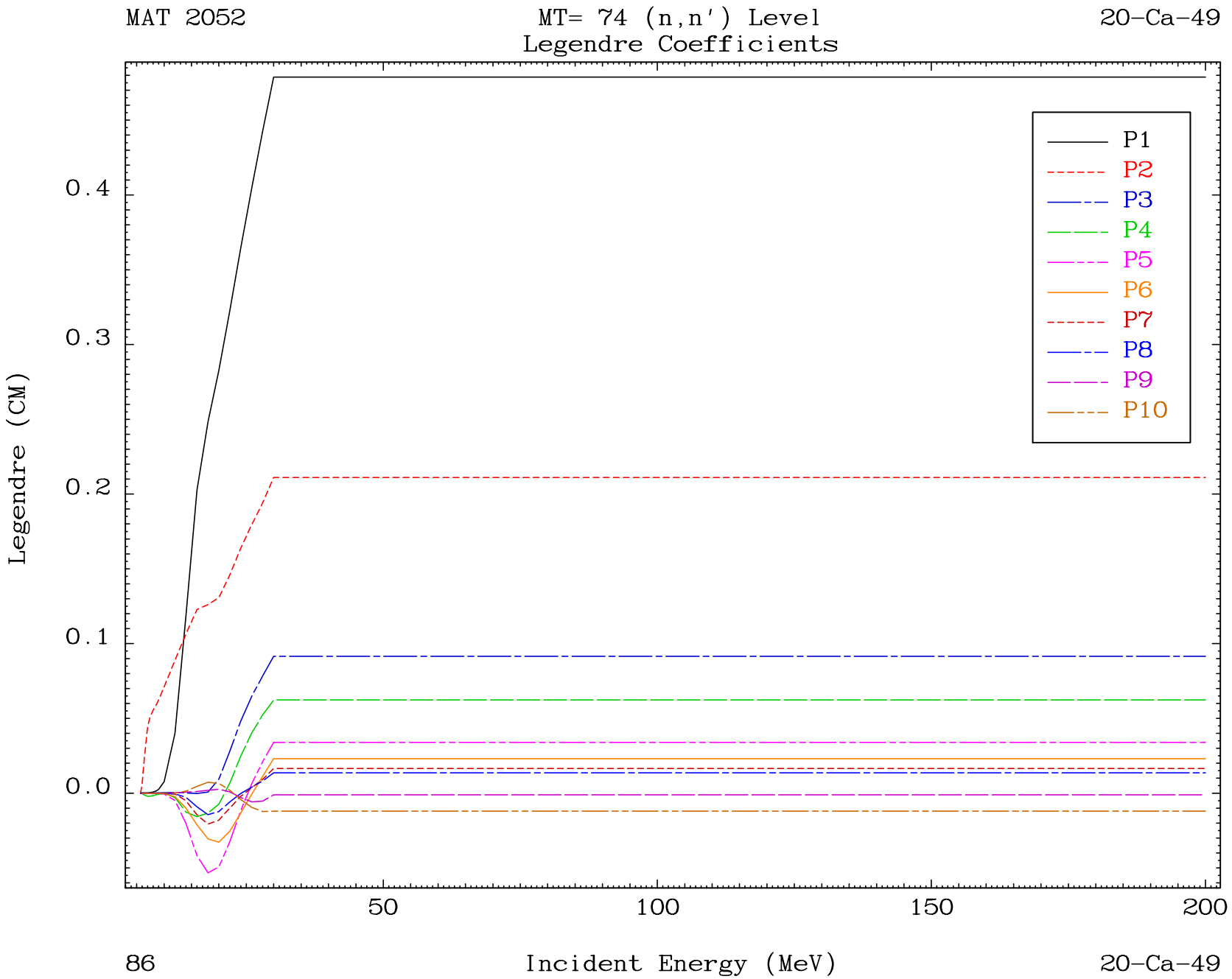

MAT 2052
MT= 72 (n,n') Level
Legendre Coefficients
20-Ca-49
0.02
0.01
0.00
-0.01
-0.02
Legendre (CM)
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
50
100
150
200
81
Incident Energy (MeV)
20-Ca-49

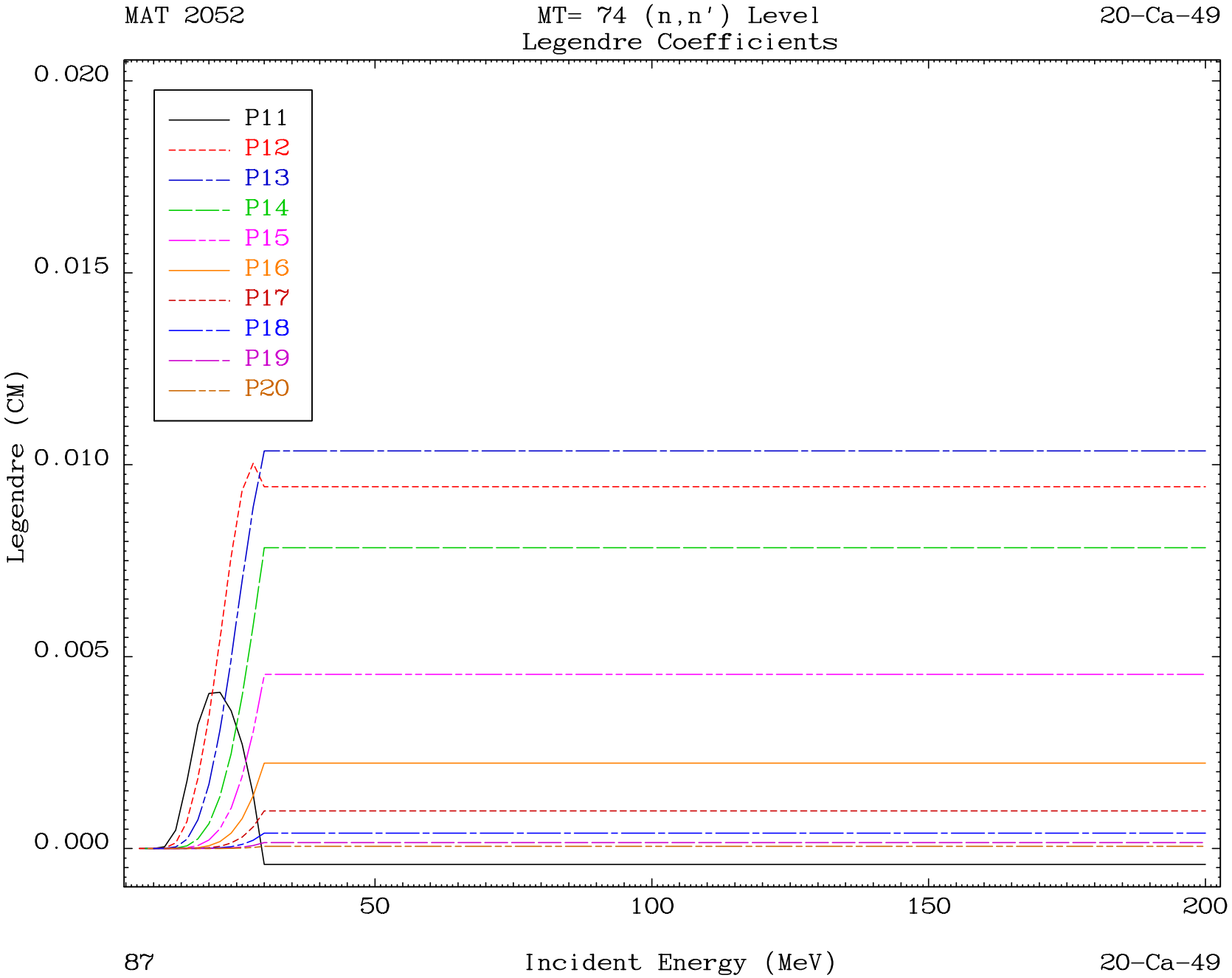

MAT 2052
MT= 72 (n,n') Level
Legendre Coefficients
20-Ca-49
0.0
X10^-5
-0.5
-1.0
-1.5
-2.0
-2.5
Legendre (CM)
50
100
150
200
82
Incident Energy (MeV)
20-Ca-49
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30

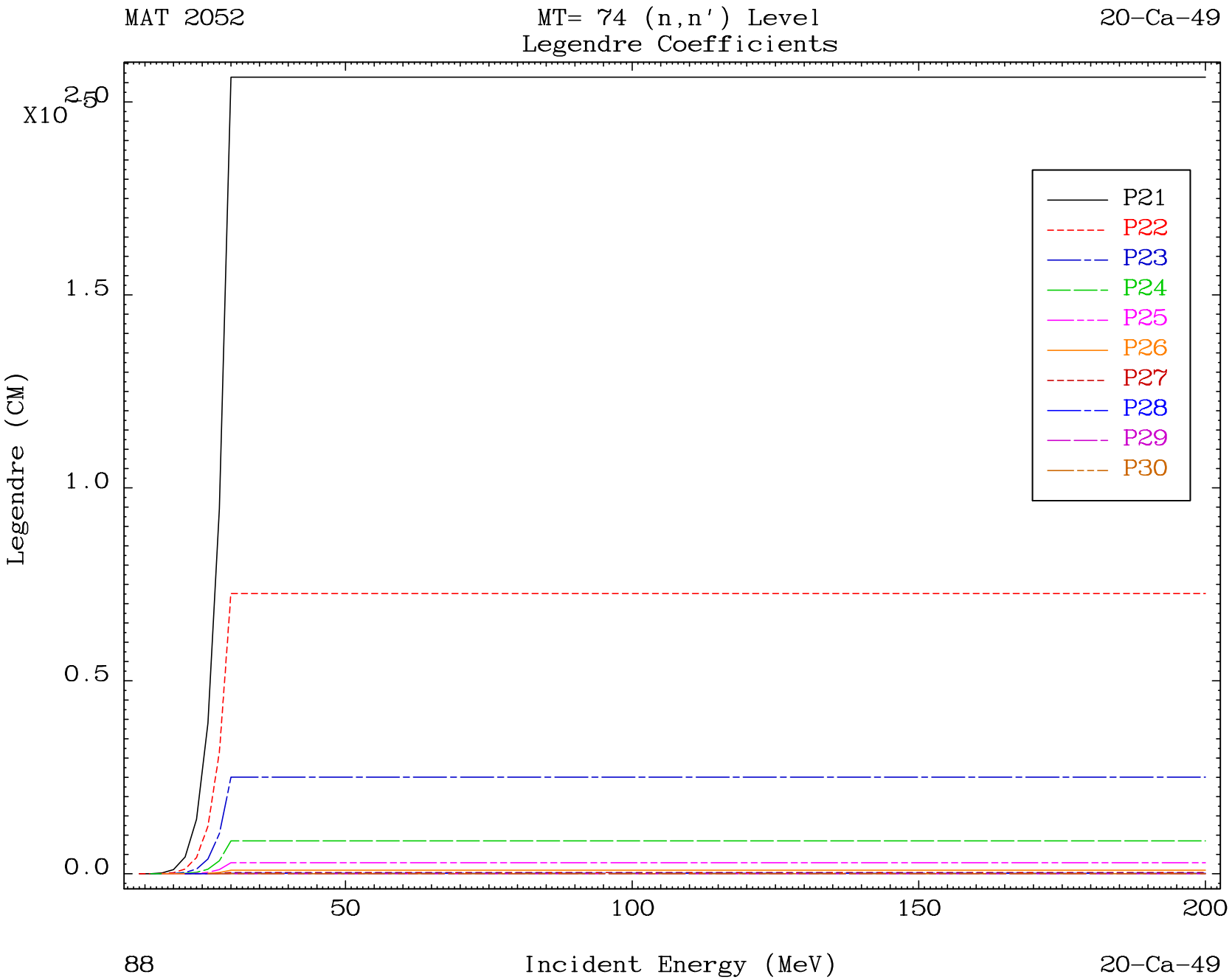

MAT 2052
MT= 73 (n,n') Level
Legendre Coefficients
20-Ca-49
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
83
Incident Energy (MeV)
20-Ca-49

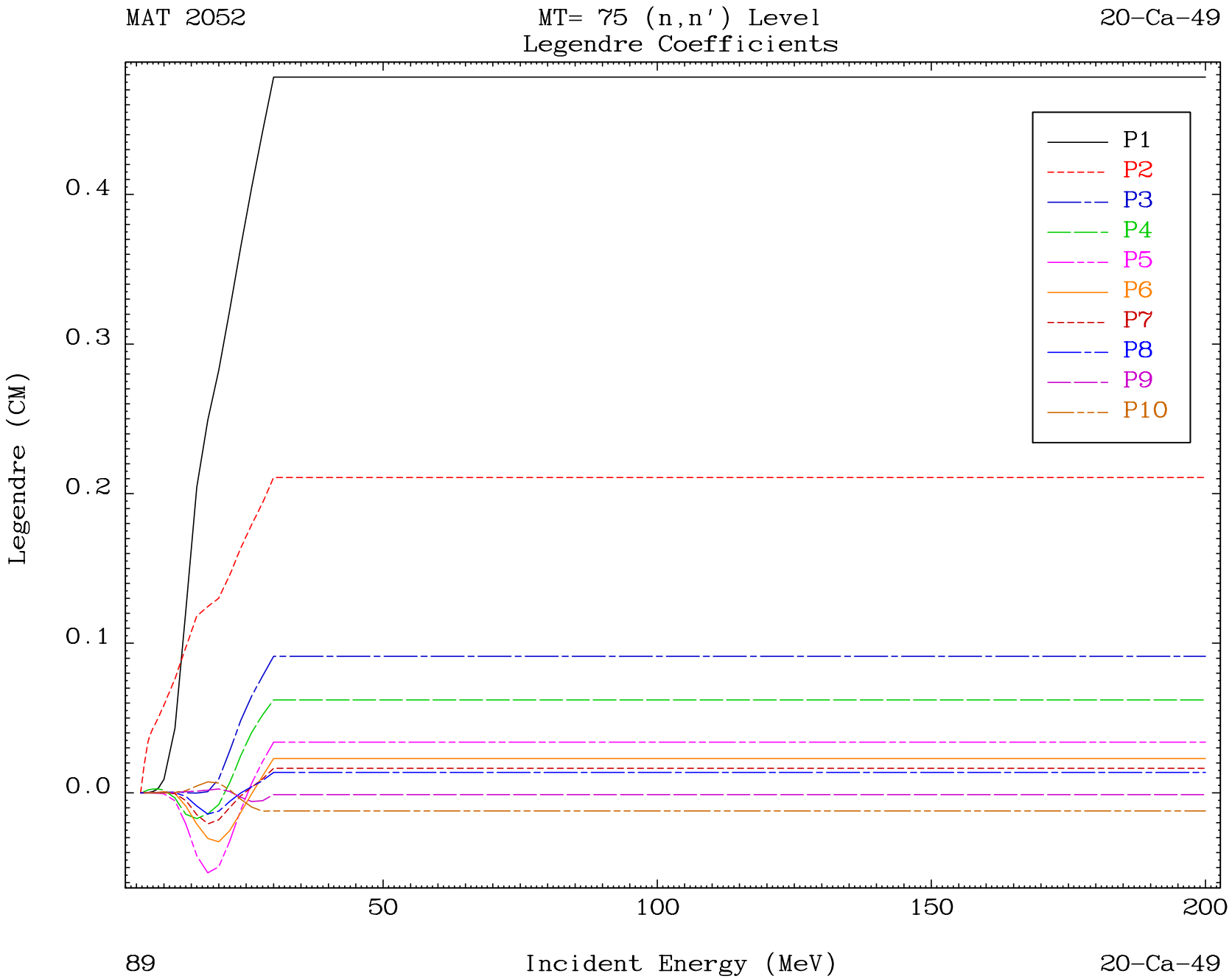

MAT 2052
MT= 73 (n,n') Level
Legendre Coefficients
20-Ca-49
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.020
0.015
0.010
0.005
0.000
Legendre (CM)
50
100
150
200
84
Incident Energy (MeV)
20-Ca-49

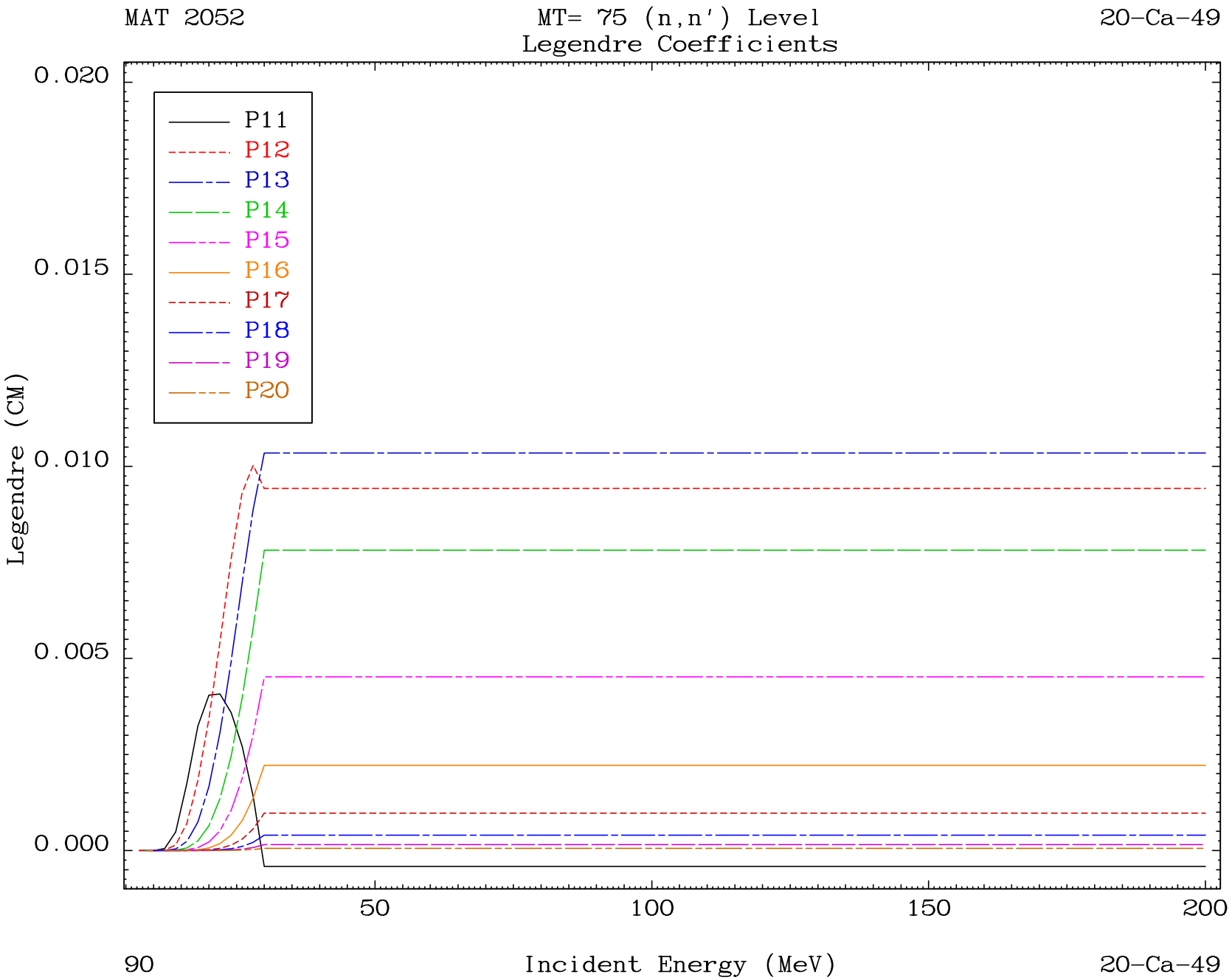

MAT 2052
MT= 73 (n,n') Level
Legendre Coefficients
20-Ca-49
X10-2
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
50
100
150
200
85
Incident Energy (MeV)
20-Ca-49

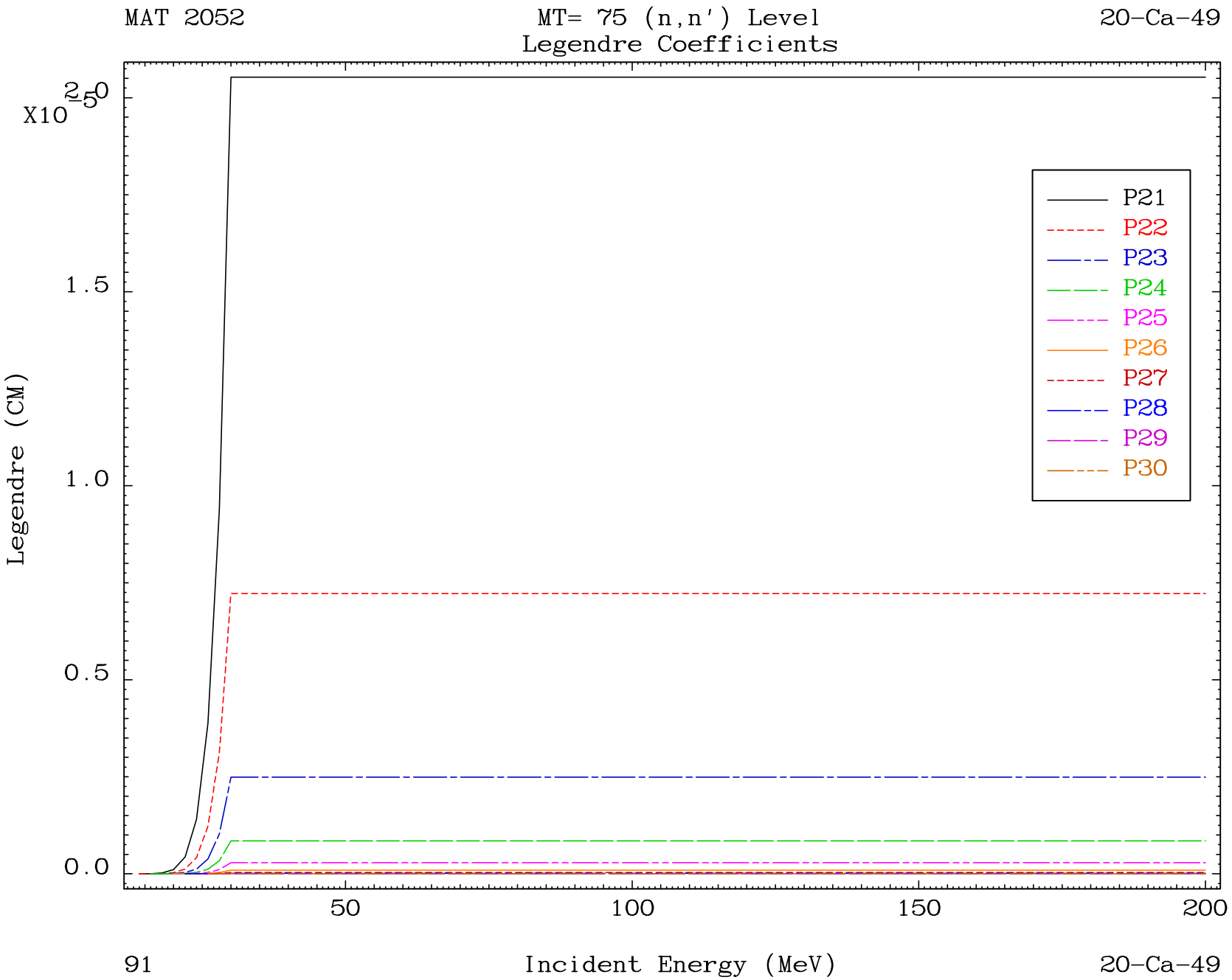

MAT 2052
MT= 74 (n,n') Level
Legendre Coefficients
20-Ca-49
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
86
Incident Energy (MeV)
20-Ca-49

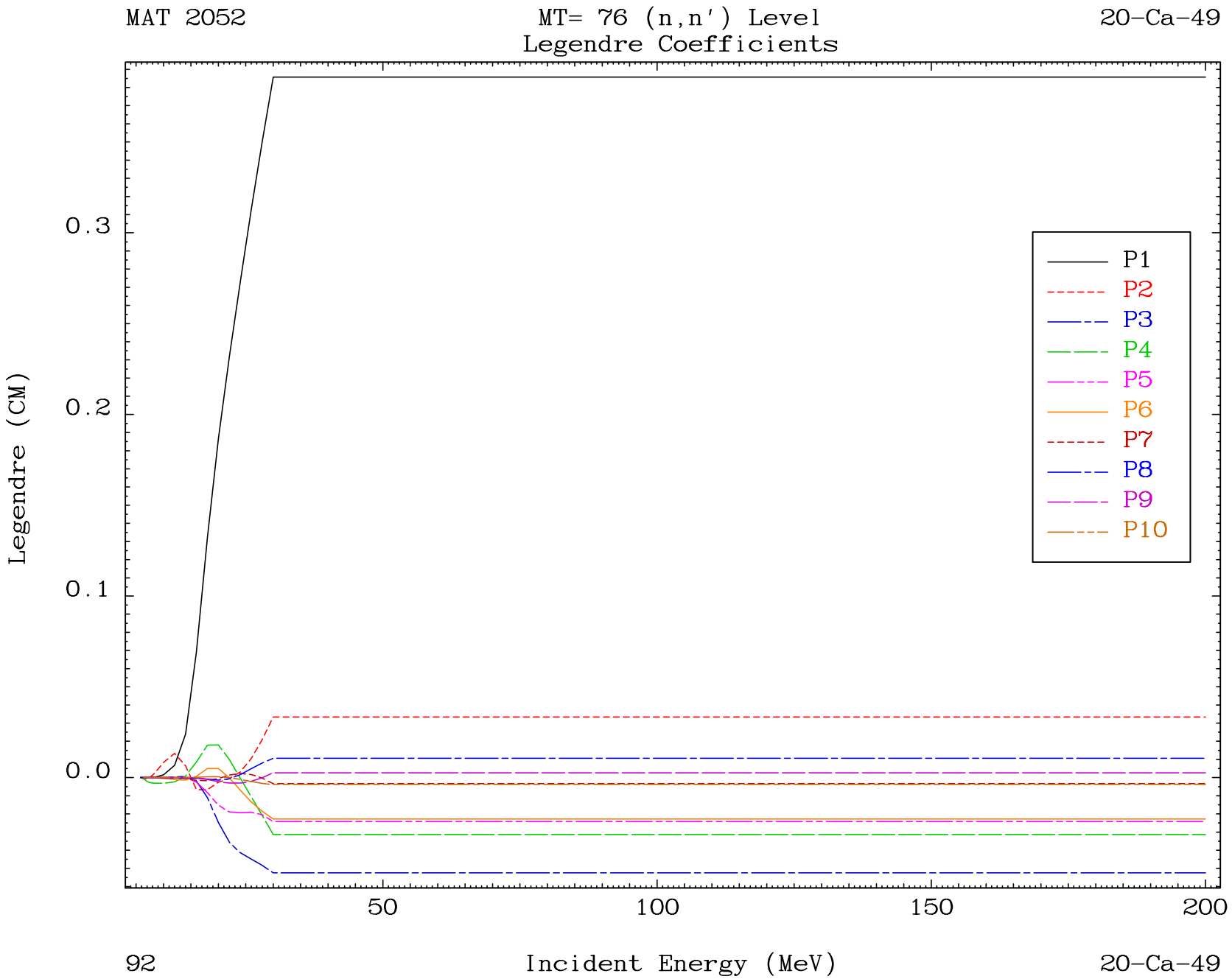

MAT 2052
MT= 74 (n,n') Level
Legendre Coefficients
20-Ca-49
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.020
0.015
0.010
0.005
0.000
Legendre (CM)
50
100
150
200
87
Incident Energy (MeV)
20-Ca-49

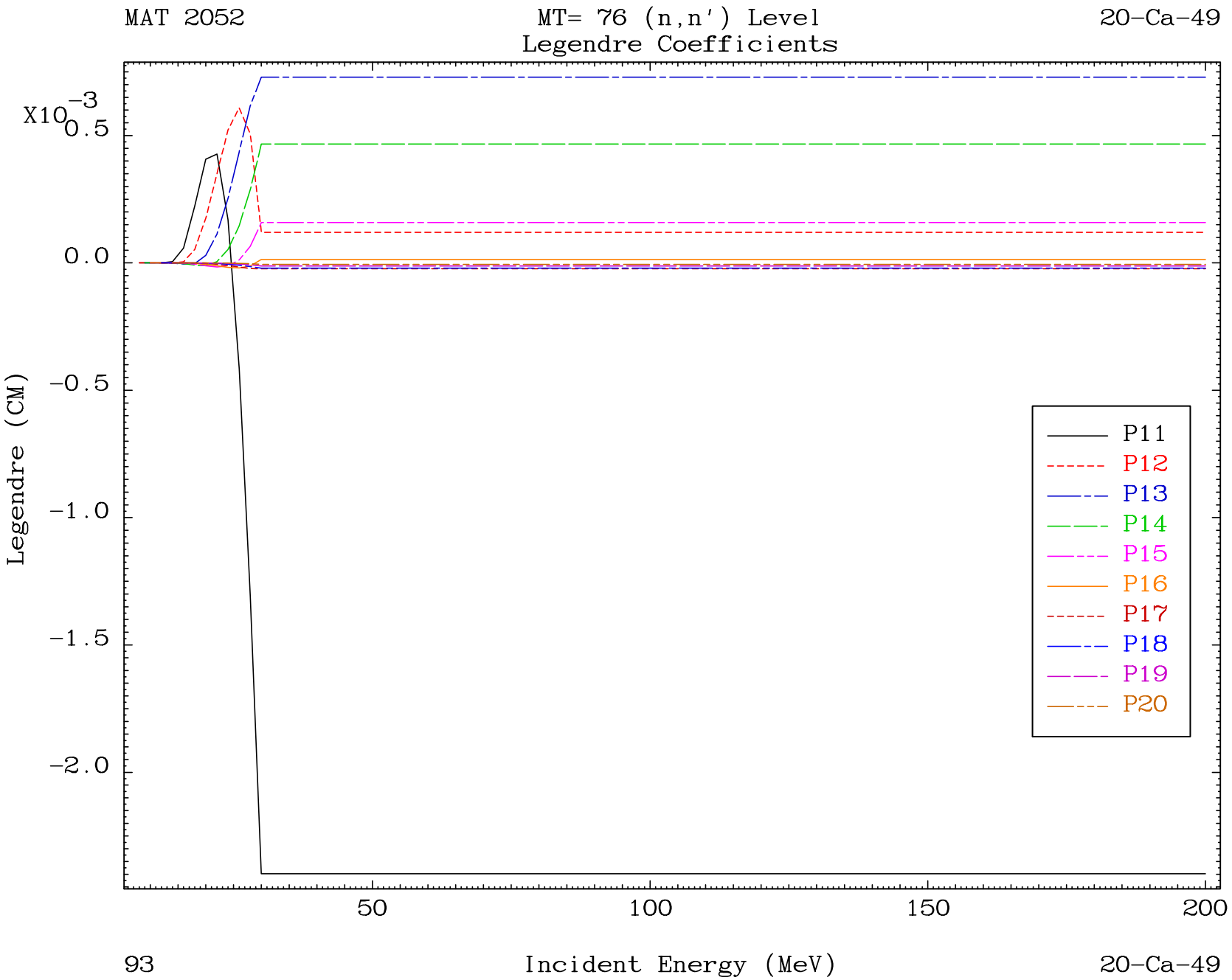

MAT 2052
MT= 74 (n,n') Level
Legendre Coefficients
20-Ca-49
X10
2.5
1.5
1.0
0.5
0.0
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
50
100
150
200
88
Incident Energy (MeV)
20-Ca-49

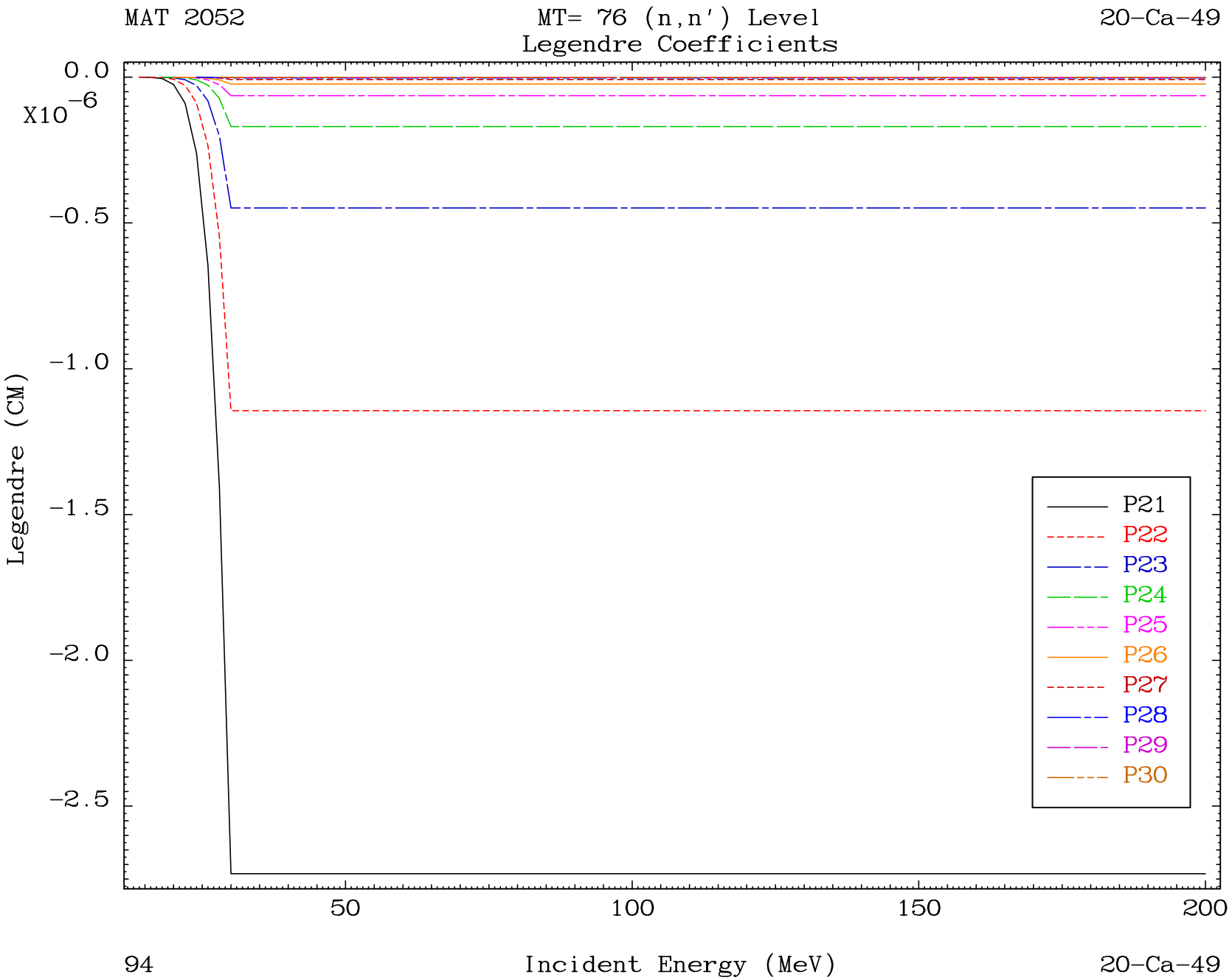

MAT 2052
MT= 75 (n,n') Level
Legendre Coefficients
20-Ca-49
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
89
Incident Energy (MeV)
20-Ca-49

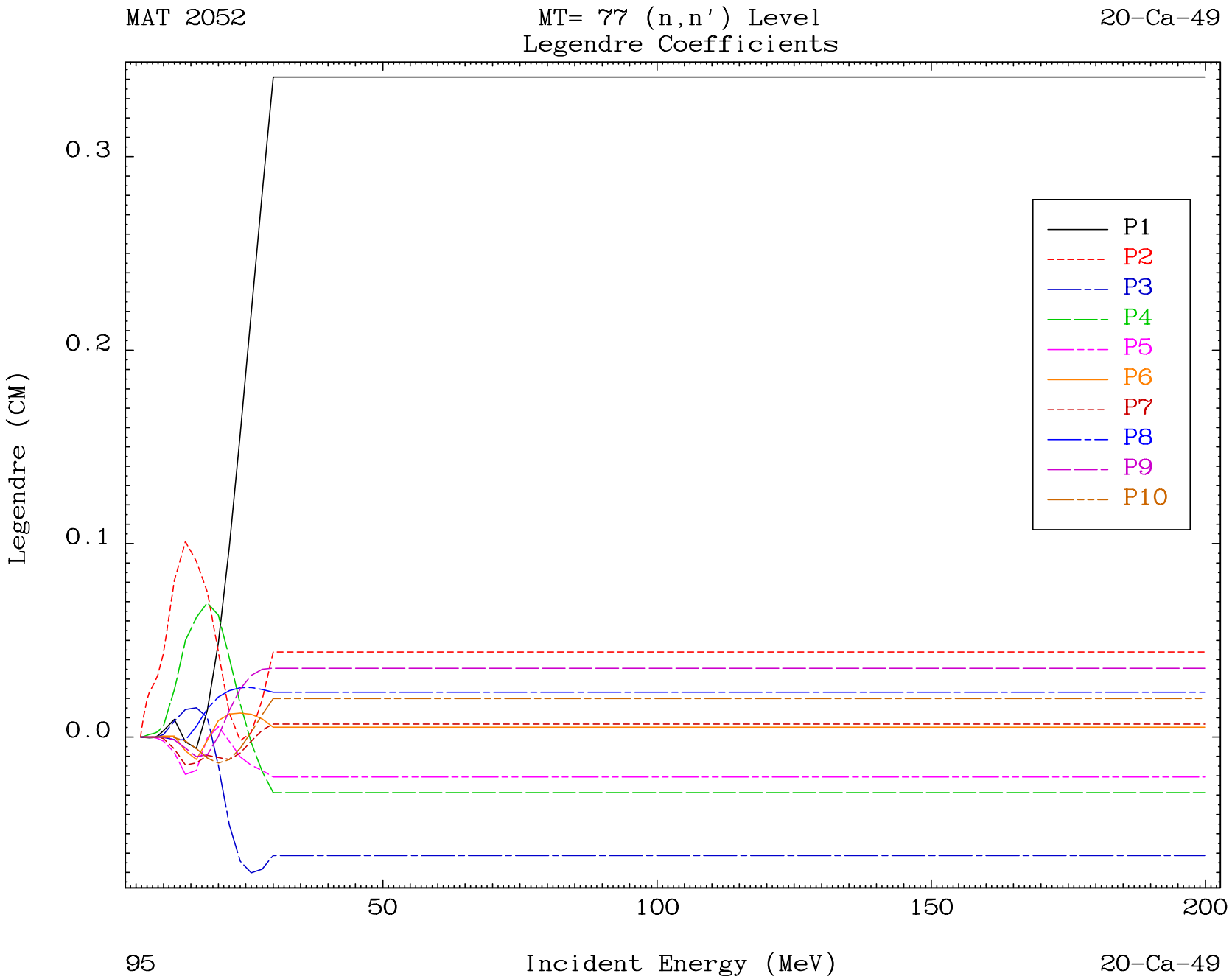

MAT 2052
MT= 75 (n,n') Level
Legendre Coefficients
20-Ca-49
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.020
0.015
0.010
0.005
0.000
Legendre (CM)
50
100
150
200
90
Incident Energy (MeV)
20-Ca-49

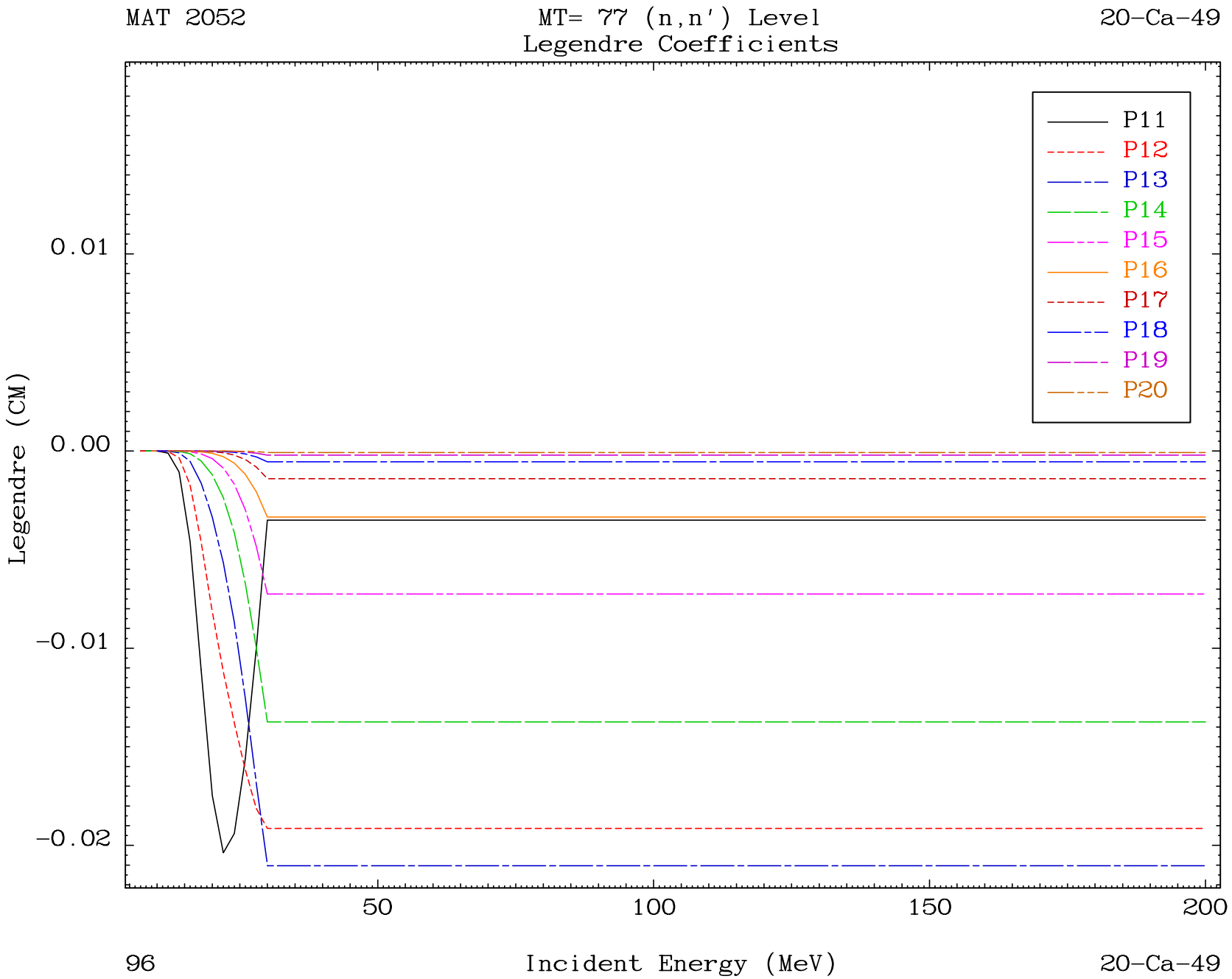

MAT 2052
MT= 75 (n,n') Level
Legendre Coefficients
20-Ca-49
X10
2.5
1.5
1.0
0.5
0.0
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
50
100
150
200
91
Incident Energy (MeV)
20-Ca-49

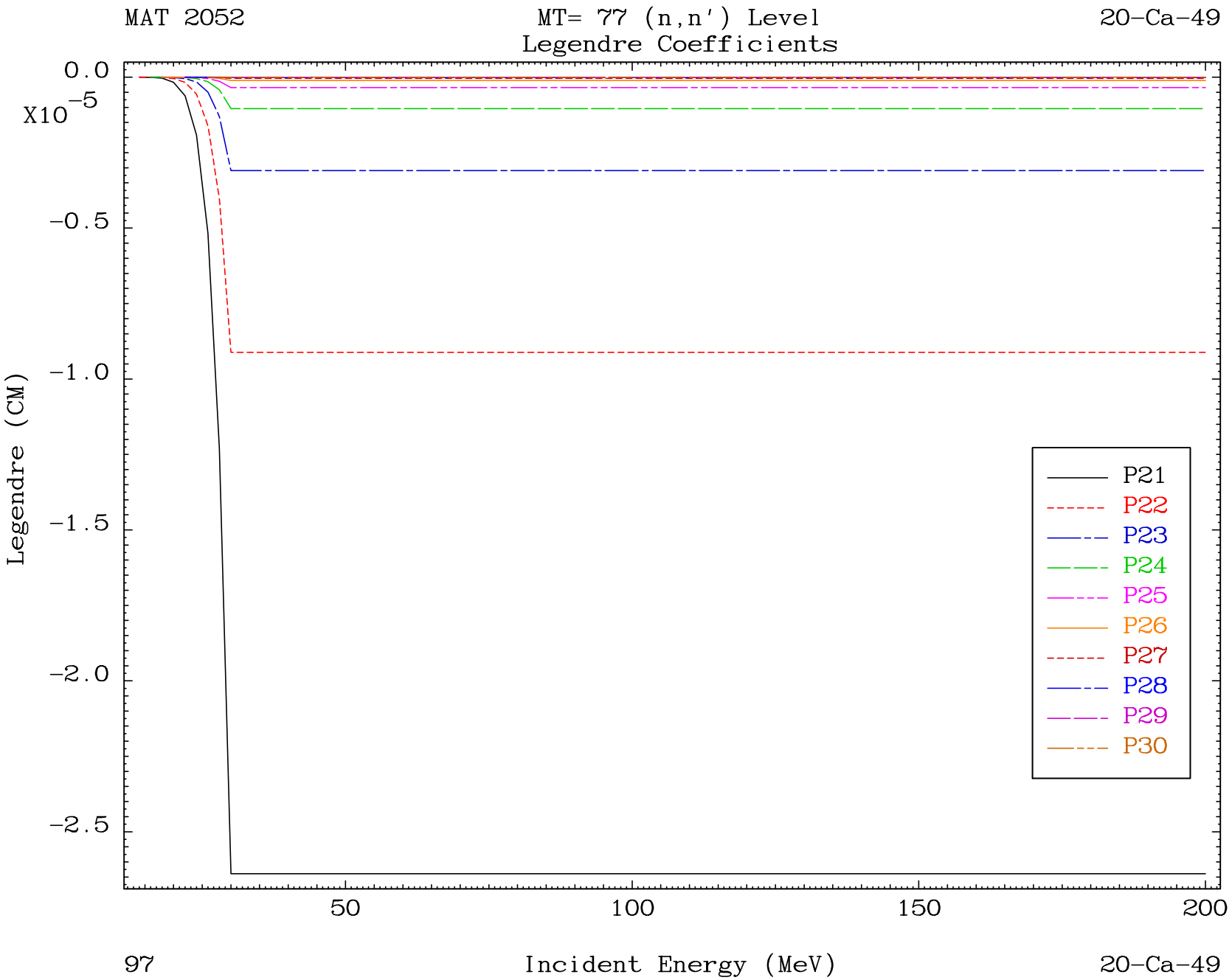

MAT 2052
MT= 76 (n,n') Level
Legendre Coefficients
20-Ca-49
Legendre (CM)
0.3
0.2
0.1
0.0
50
100
150
200
92
Incident Energy (MeV)
20-Ca-49
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10

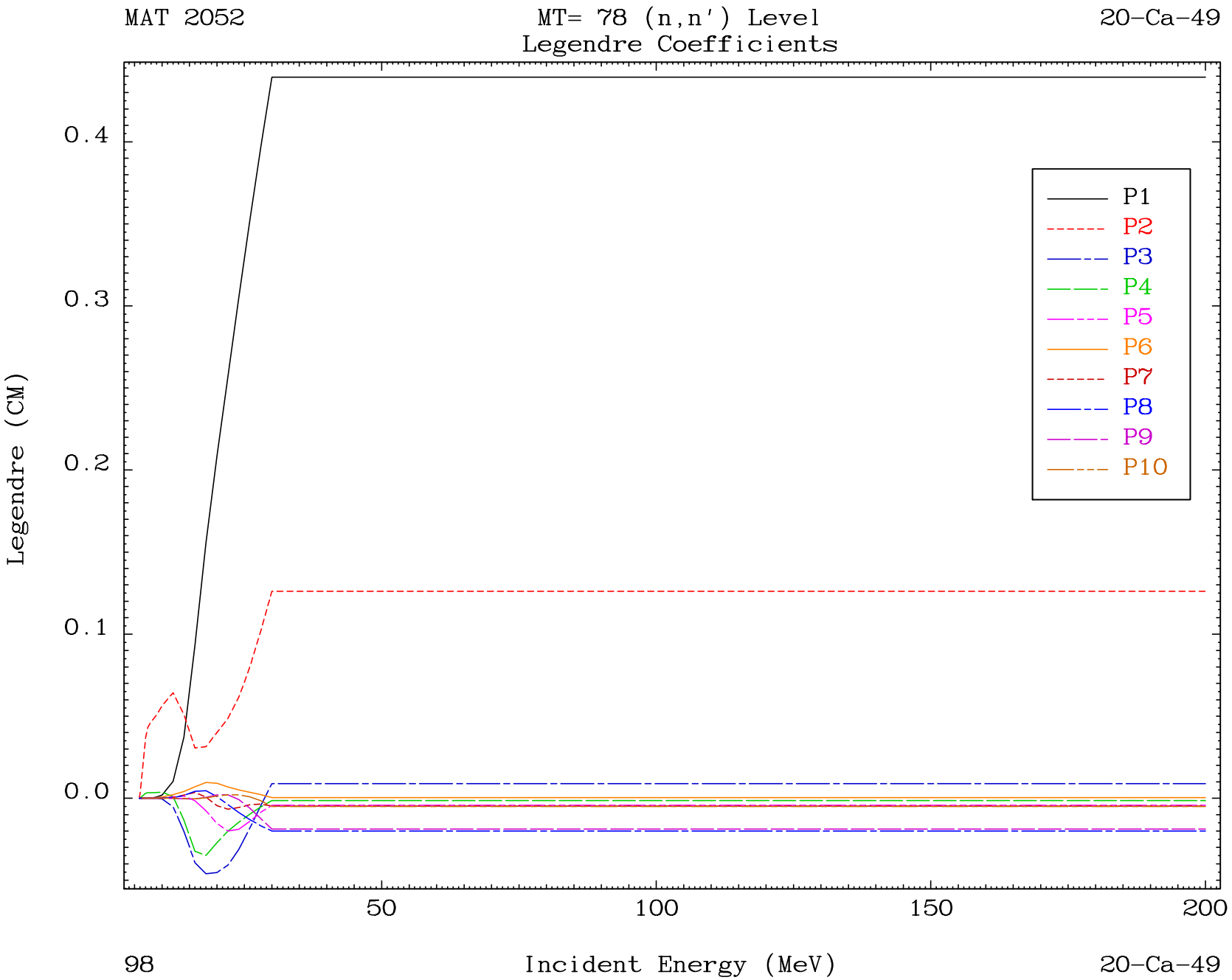

MAT 2052
MT= 76 (n,n') Level
Legendre Coefficients
20-Ca-49
X10-3
0.5
0.0
-0.5
-1.0
-1.5
-2.0
Legendre (CM)
50
100
150
200
93
Incident Energy (MeV)
20-Ca-49
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20

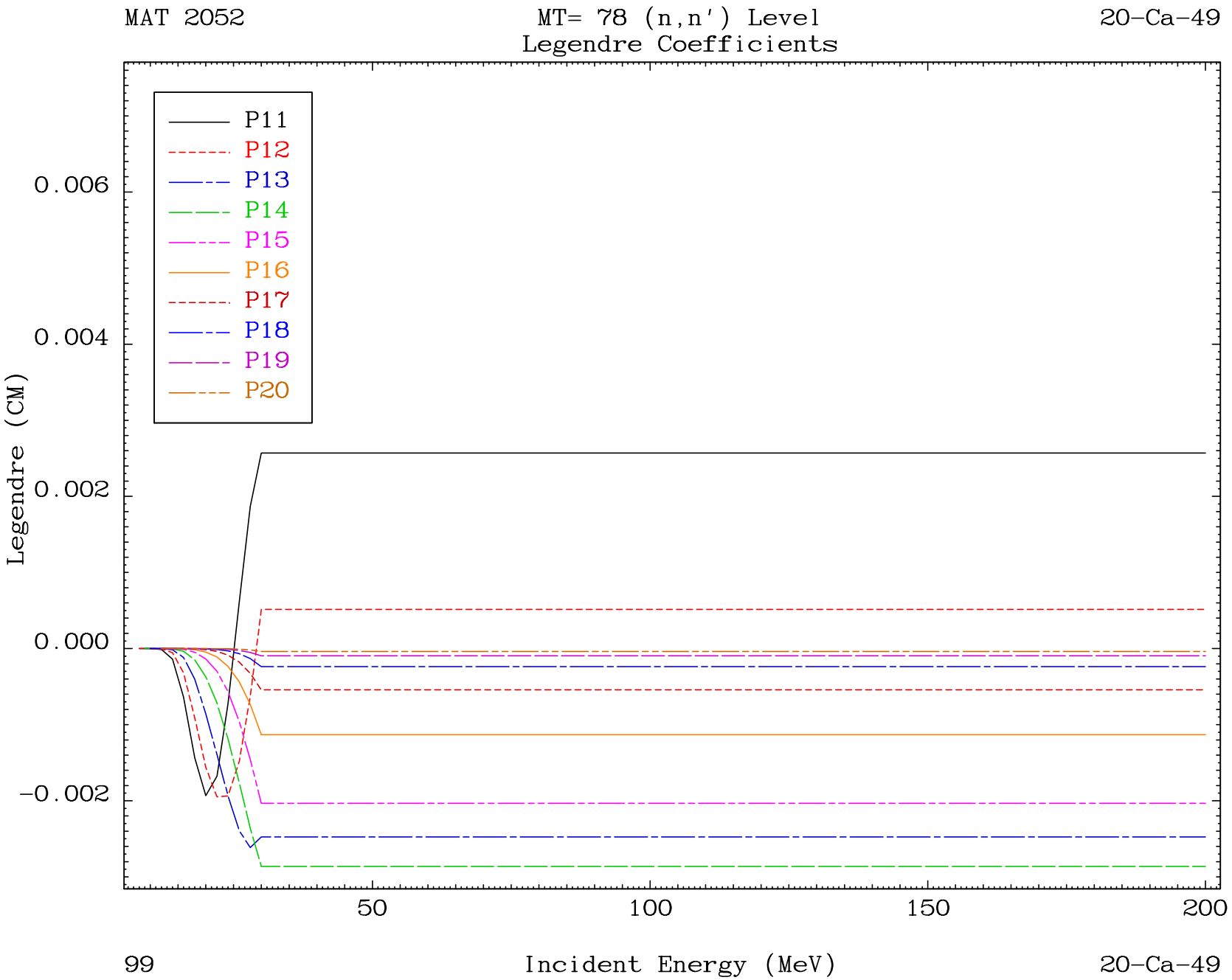

MAT 2052
MT= 76 (n,n') Level
Legendre Coefficients
20-Ca-49
0.0
X10^-6
-0.5
-1.0
-1.5
-2.0
-2.5
Legendre (CM)
50
100
150
200
94
Incident Energy (MeV)
20-Ca-49
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30

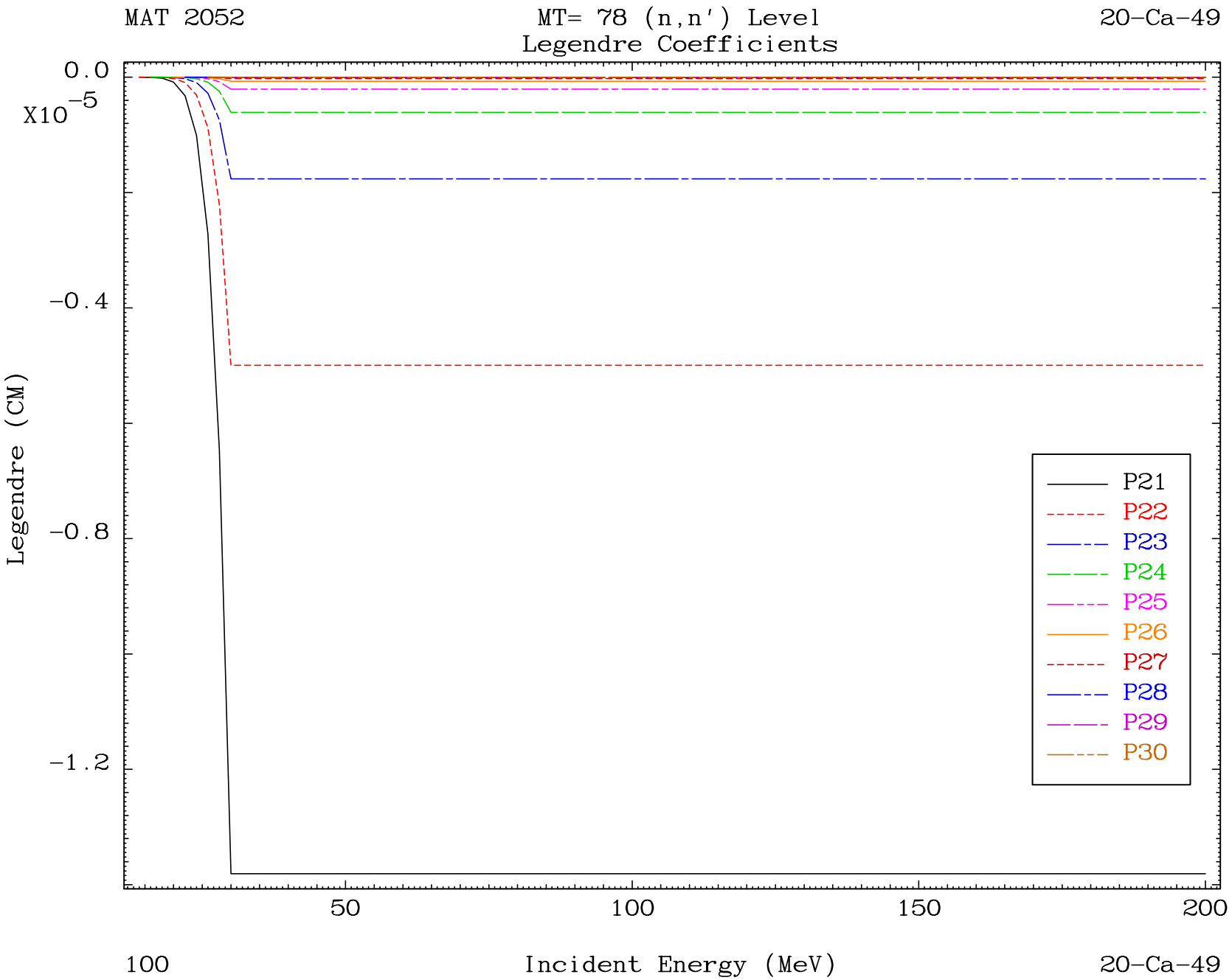

MAT 2052
MT= 77 (n,n') Level
Legendre Coefficients
20-Ca-49
Legendre (CM)
0.3
0.2
0.1
0.0
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
50
100
150
200
95
Incident Energy (MeV)
20-Ca-49

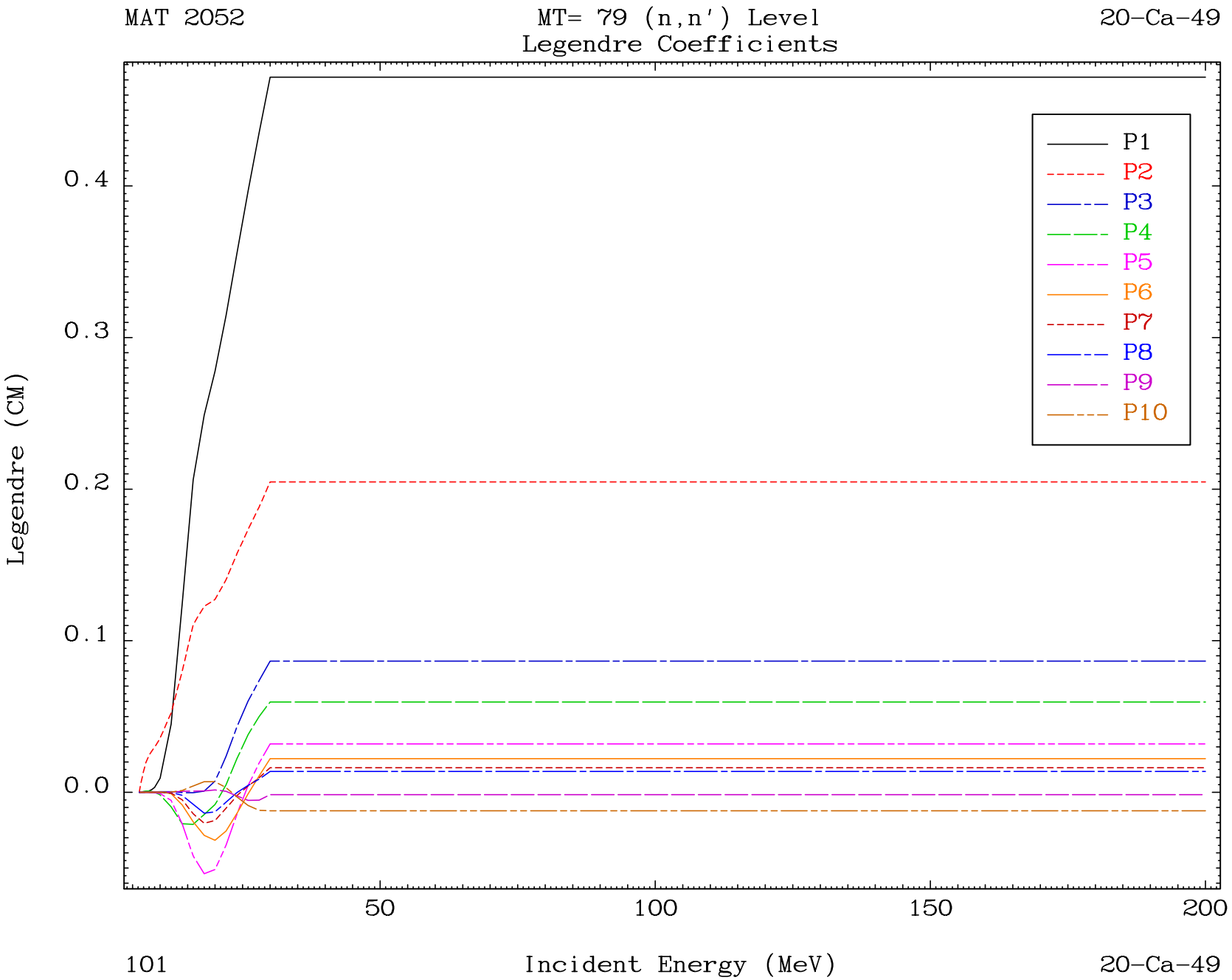

MAT 2052
MT= 77 (n,n') Level
Legendre Coefficients
20-Ca-49
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.01
0.00
-0.01
-0.02
Legendre (CM)
50
100
150
200
96
Incident Energy (MeV)
20-Ca-49

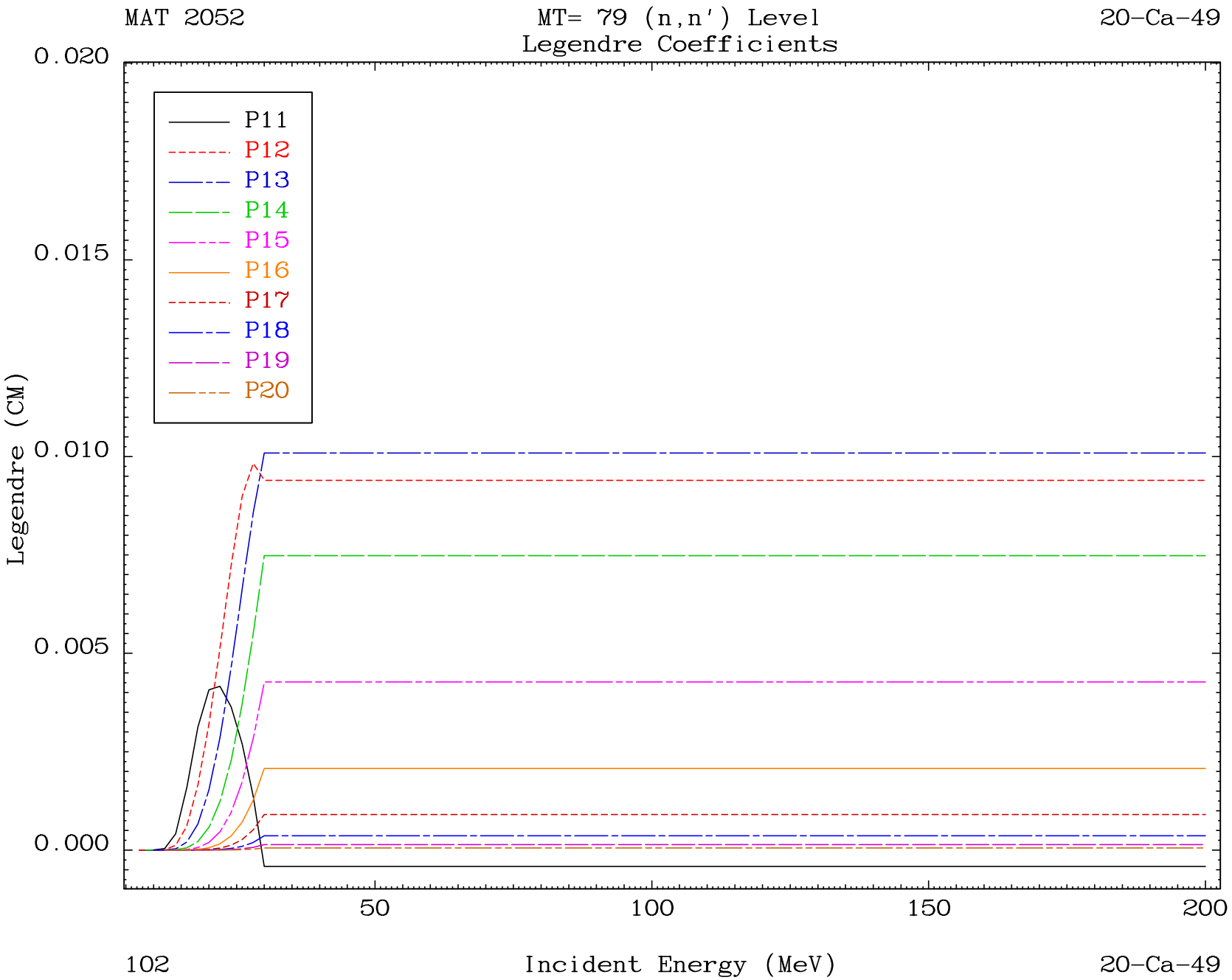

MAT 2052
MT= 77 (n,n') Level
Legendre Coefficients
20-Ca-49
0.0
X10^-5
-0.5
-1.0
-1.5
-2.0
-2.5
Legendre (CM)
50
100
150
200
97
Incident Energy (MeV)
20-Ca-49
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30

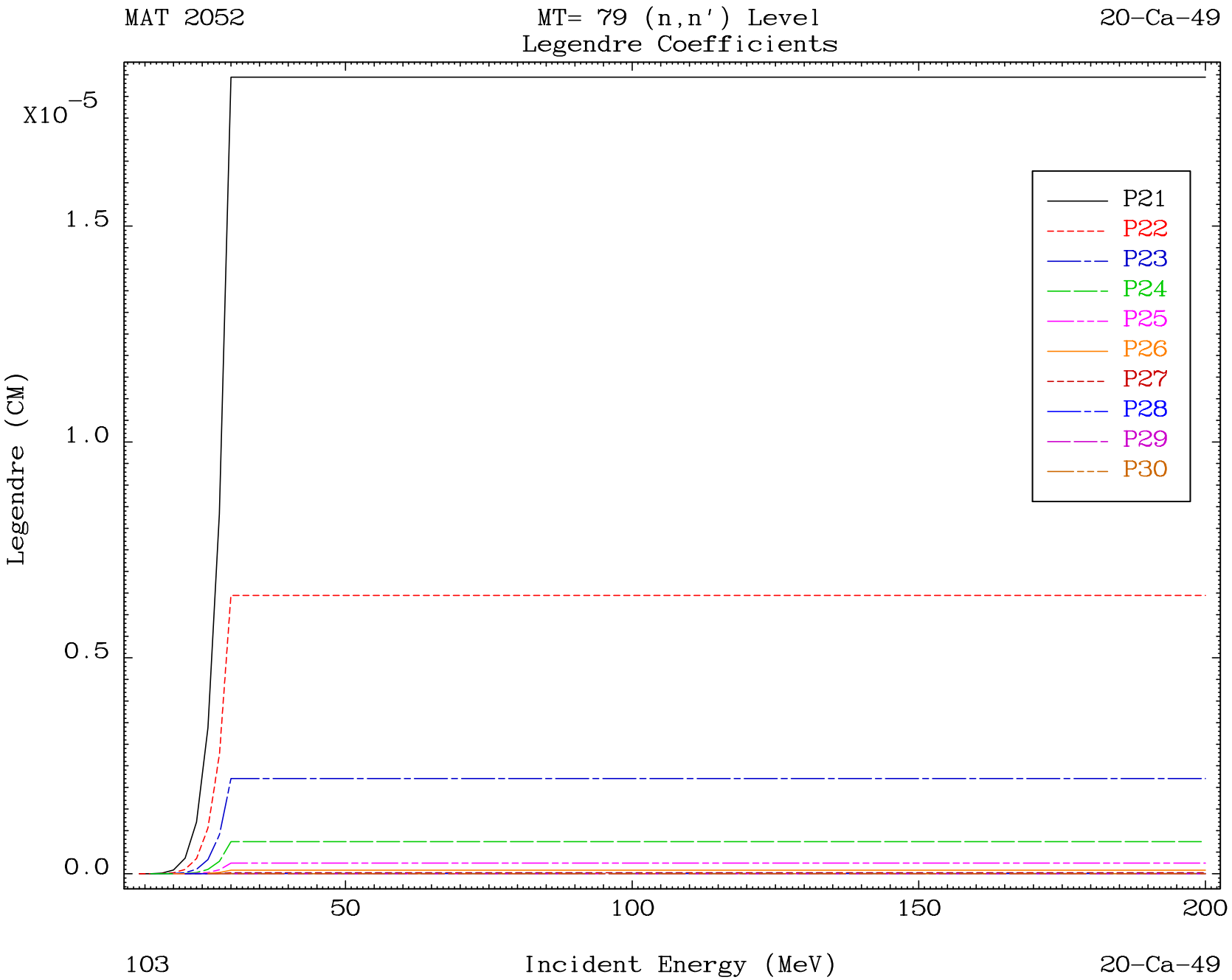

MAT 2052
MT= 78 (n,n') Level
Legendre Coefficients
20-Ca-49
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
50
100
150
200
Incident Energy (MeV)
98
20-Ca-49
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10


MAT 2052
MT= 78 (n,n') Level
Legendre Coefficients
20-Ca-49
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
99
Incident Energy (MeV)
20-Ca-49


MAT 2052
MT= 78 (n,n') Level
Legendre Coefficients
20-Ca-49
0.0
X10^-5
-0.4
-0.8
-1.2
Legendre (CM)
50
100
150
200
100
Incident Energy (MeV)
20-Ca-49
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30


MAT 2052
MT= 79 (n,n') Level
Legendre Coefficients
20-Ca-49
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
101
Incident Energy (MeV)
20-Ca-49


MAT 2052
MT= 79 (n,n') Level
Legendre Coefficients
20-Ca-49
0.020
0.015
0.010
0.005
0.000
Legendre (CM)
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
50
100
150
200
102
Incident Energy (MeV)
20-Ca-49


MAT 2052
MT= 79 (n,n') Level
Legendre Coefficients
20-Ca-49
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
103
Incident Energy (MeV)
20-Ca-49