Program EVALPLOT
(Version 2017-1)
by
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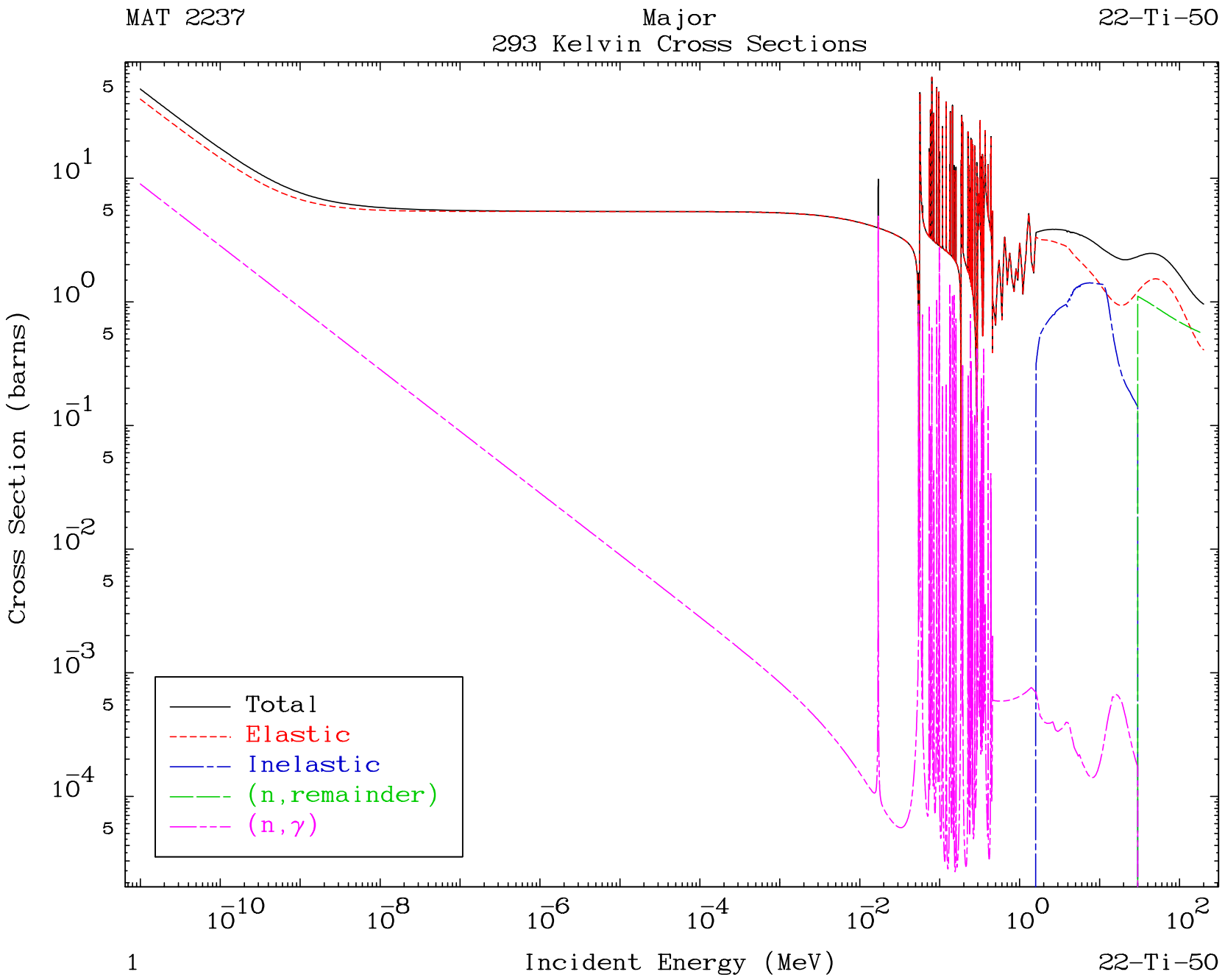
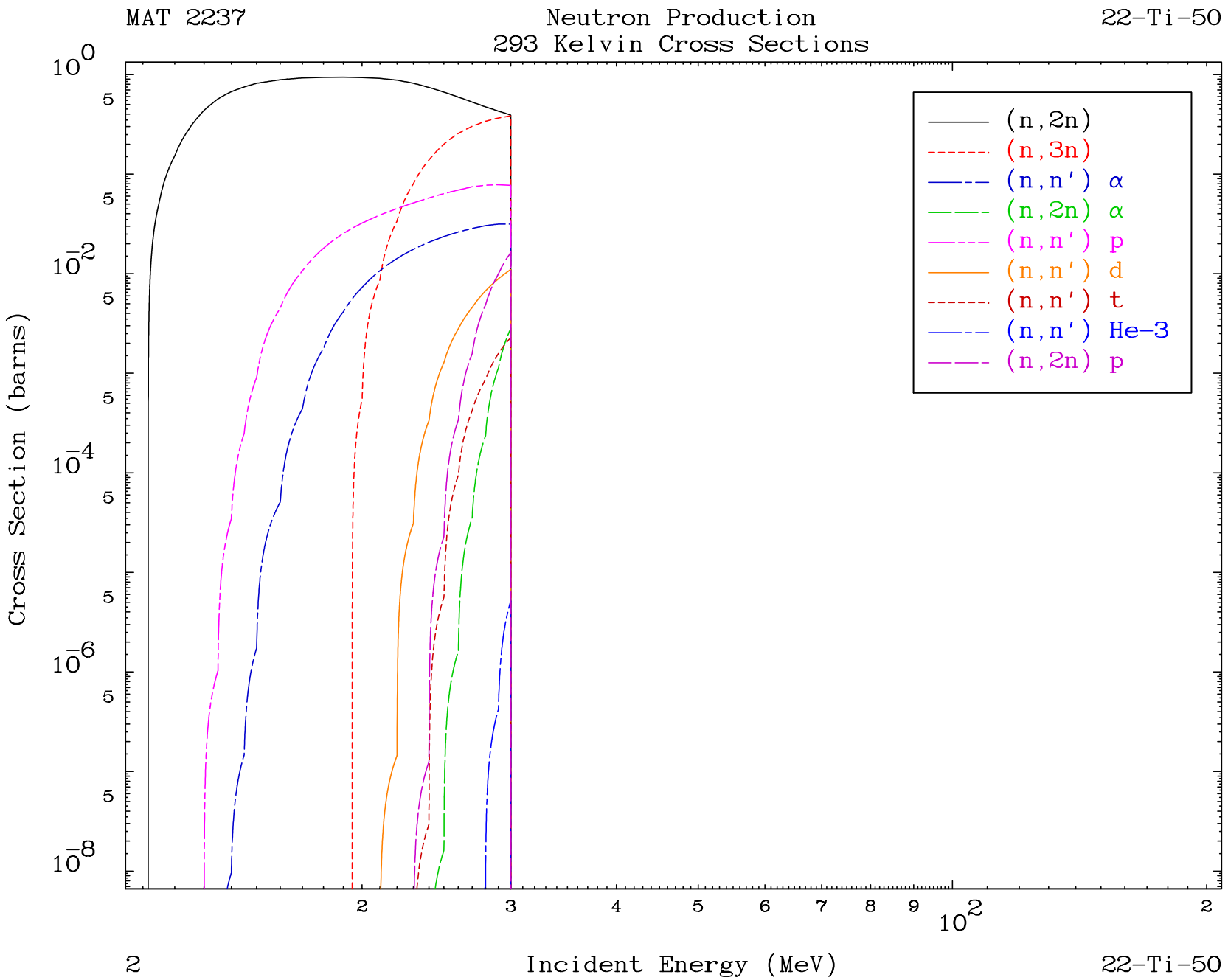
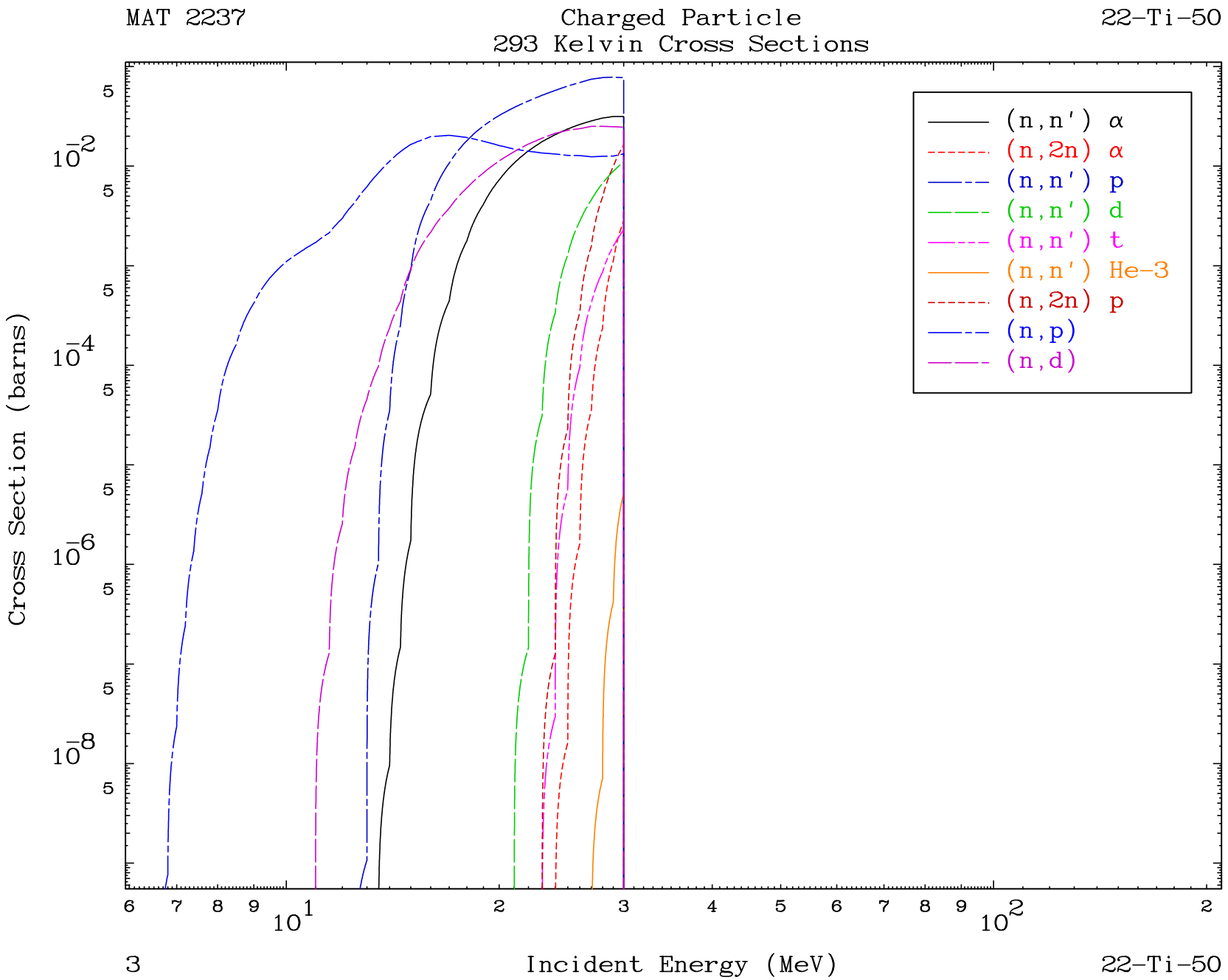
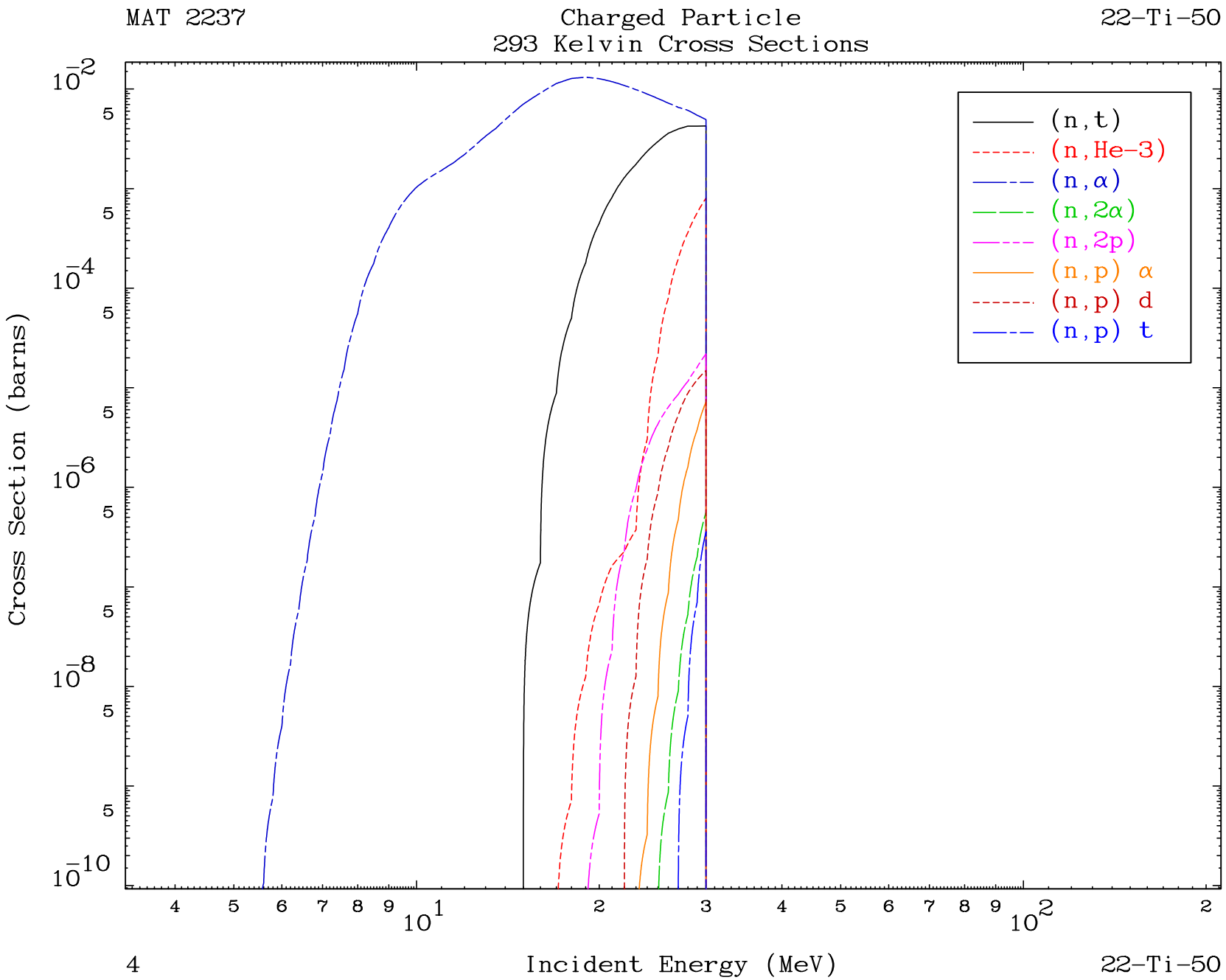
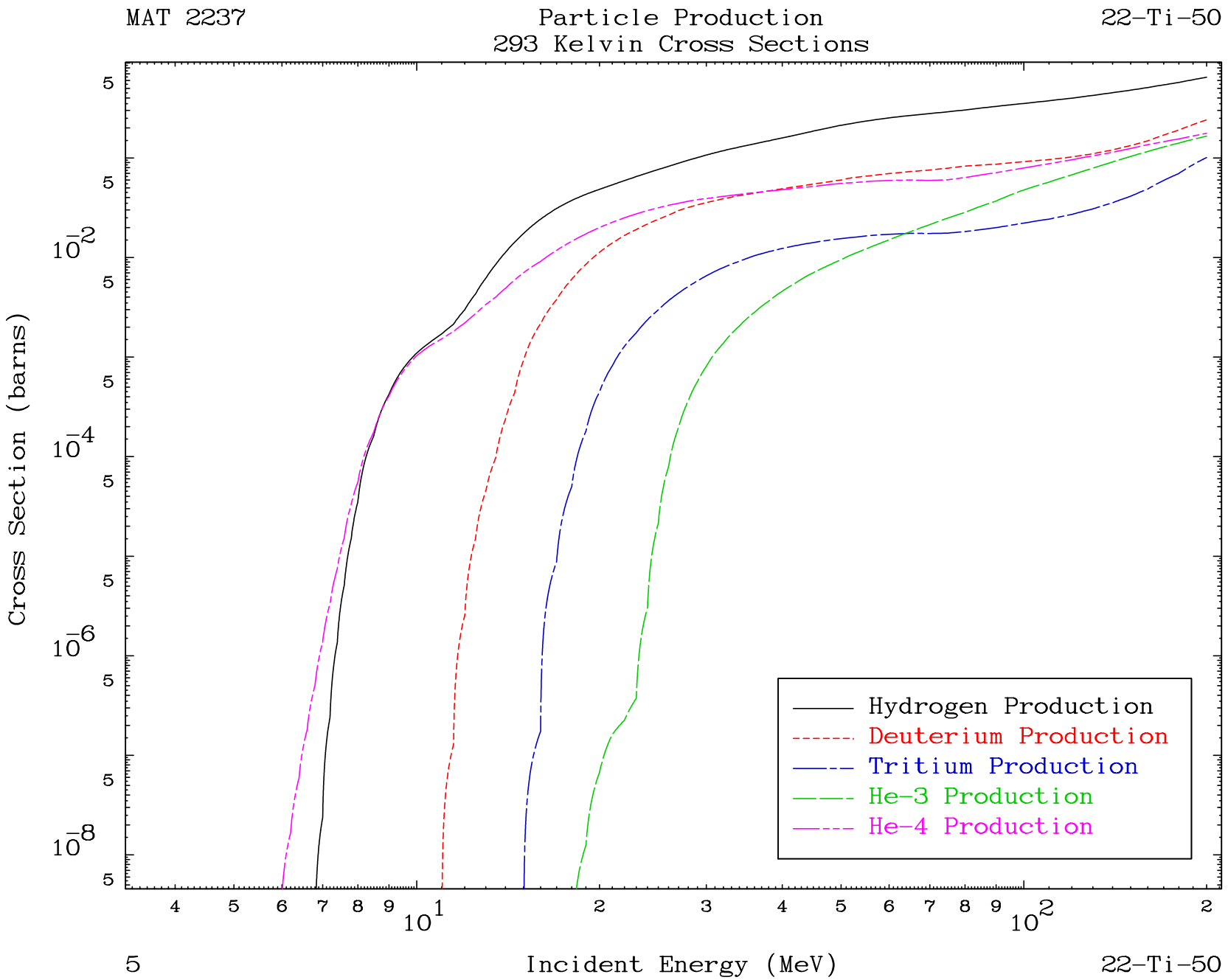
Press Mouse Button to Start

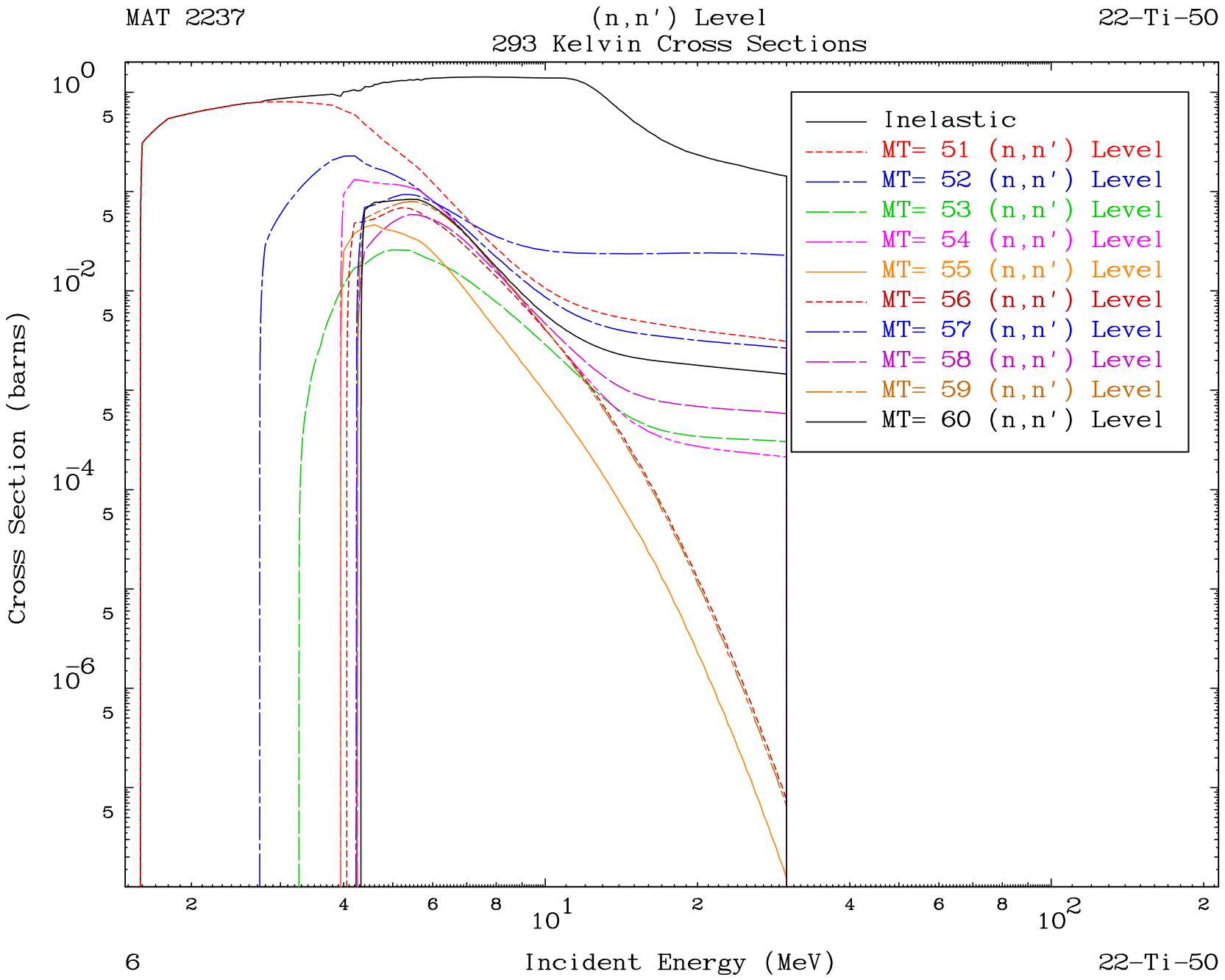

MAT 2237
Major
22-Ti-50
293 Kelvin Cross Sections
Cross Section (barns)
Incident Energy (MeV)
Total
Elastic
Inelastic
(n,remainder)
(n,γ)
1
22-Ti-50

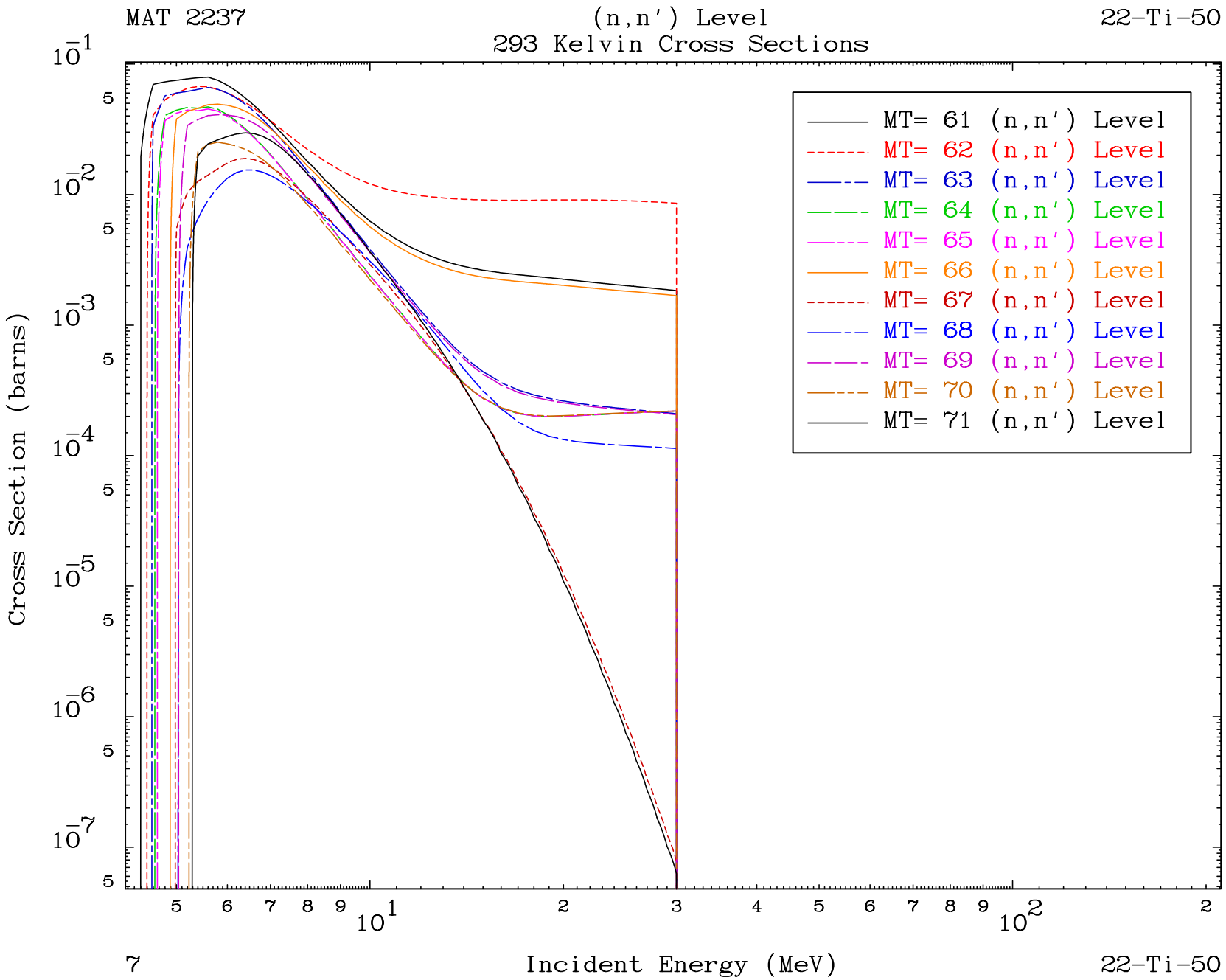

MAT 2237
Neutron Production
293 Kelvin Cross Sections
22-Ti-50
Cross Section (barns)
Incident Energy (MeV)
22-Ti-50
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,n') p
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p

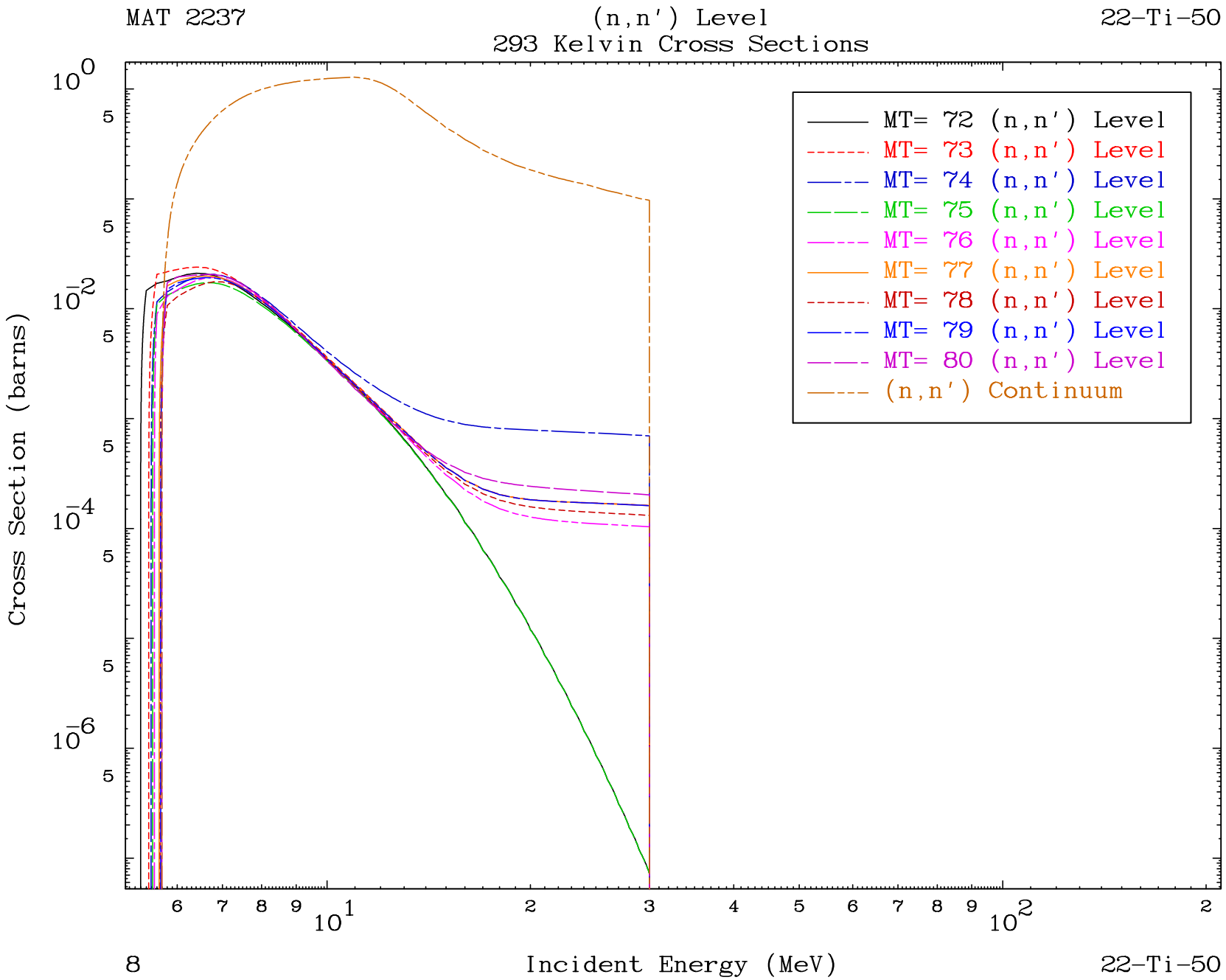

MAT 2237
Charged Particle
293 Kelvin Cross Sections
22-Ti-50
Cross Section (barns)
Incident Energy (MeV)
3
22-Ti-50
(n,n') α
(n,2n) α
(n,n') p
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
(n,p)
(n,d)

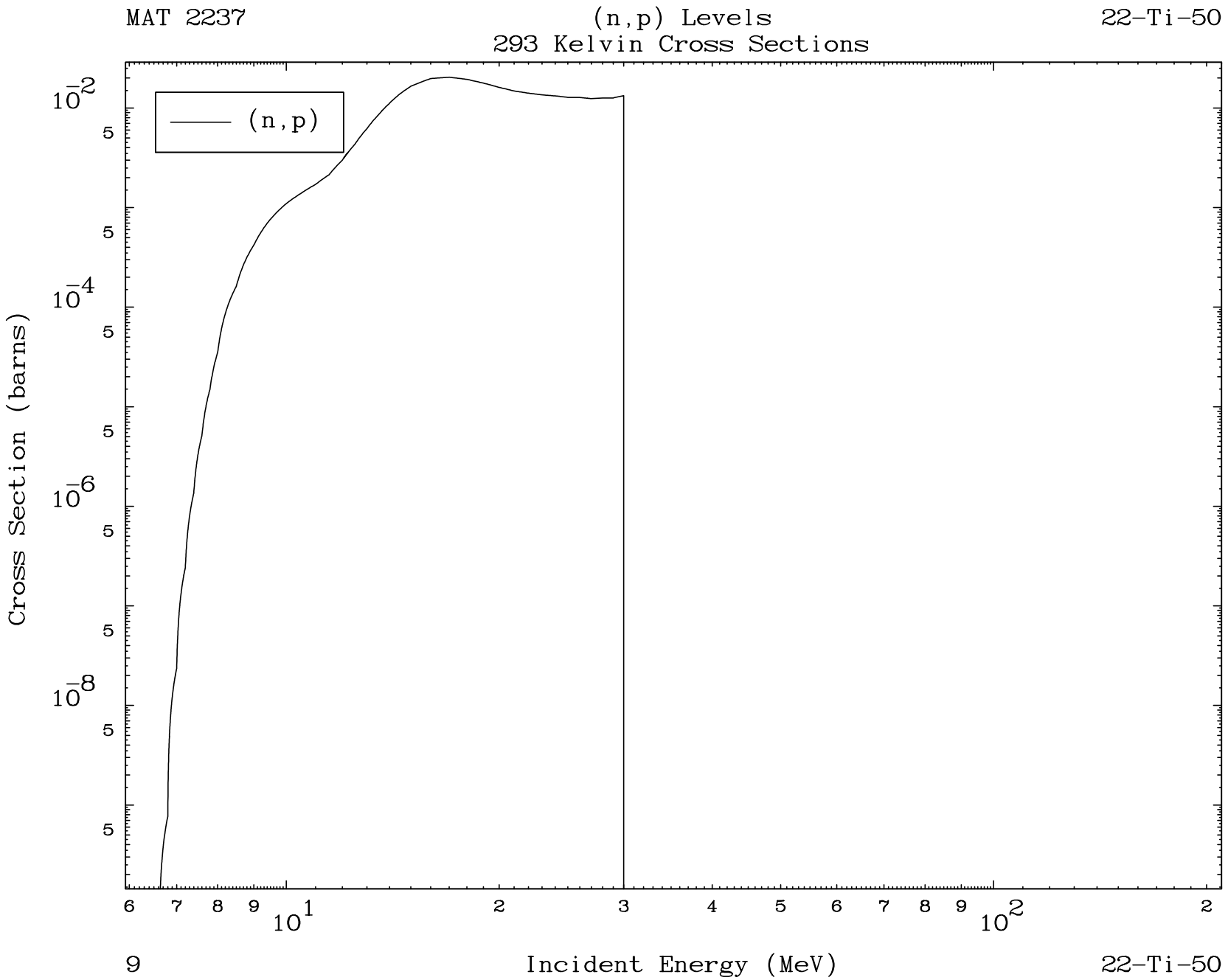

MAT 2237
Charged Particle
293 Kelvin Cross Sections
22-Ti-50
Cross Section (barns)
Incident Energy (MeV)
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
4
22-Ti-50

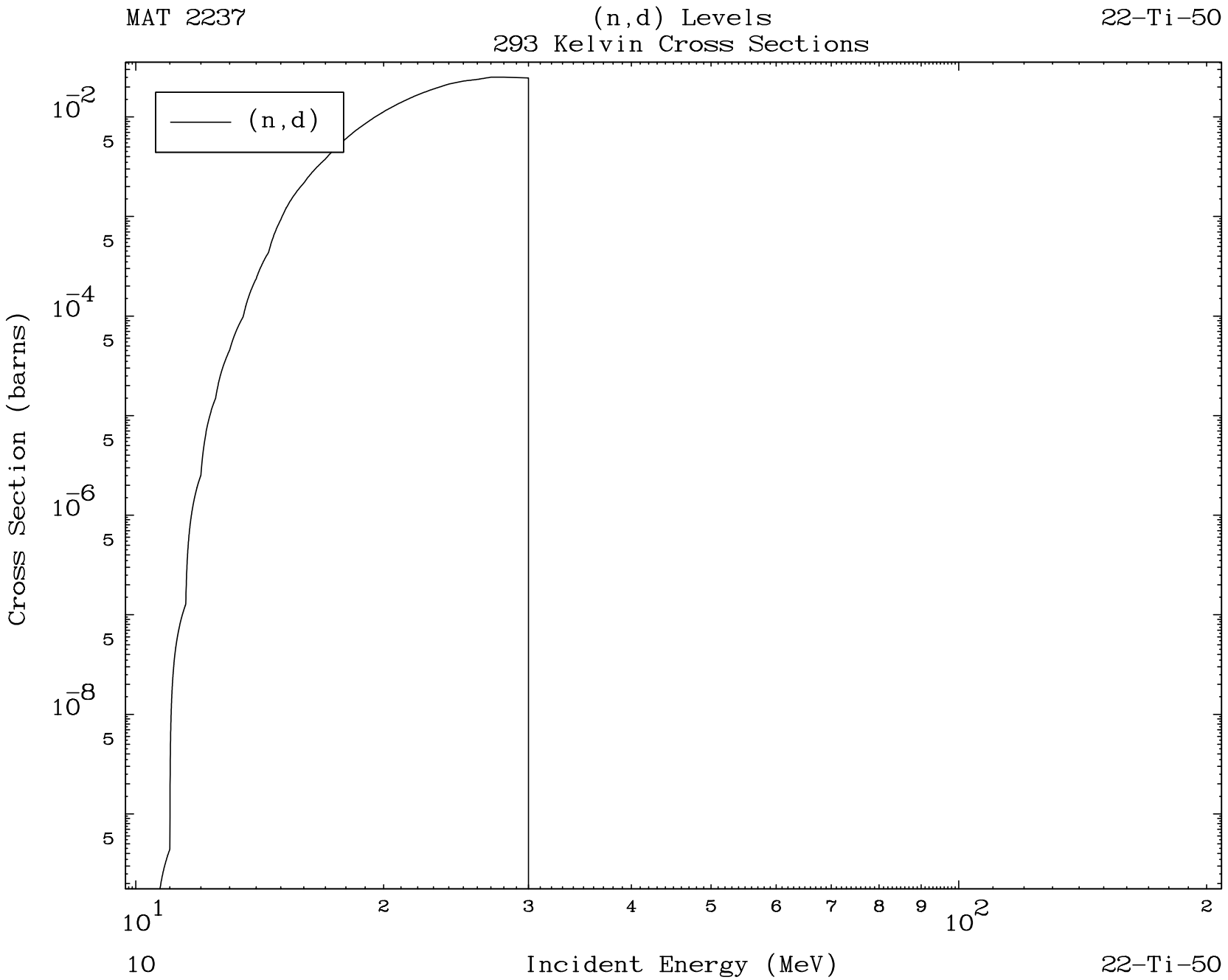

MAT 2237
Particle Production
293 Kelvin Cross Sections
22-Ti-50
Cross Section (barns)
Incident Energy (MeV)
22-Ti-50
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production

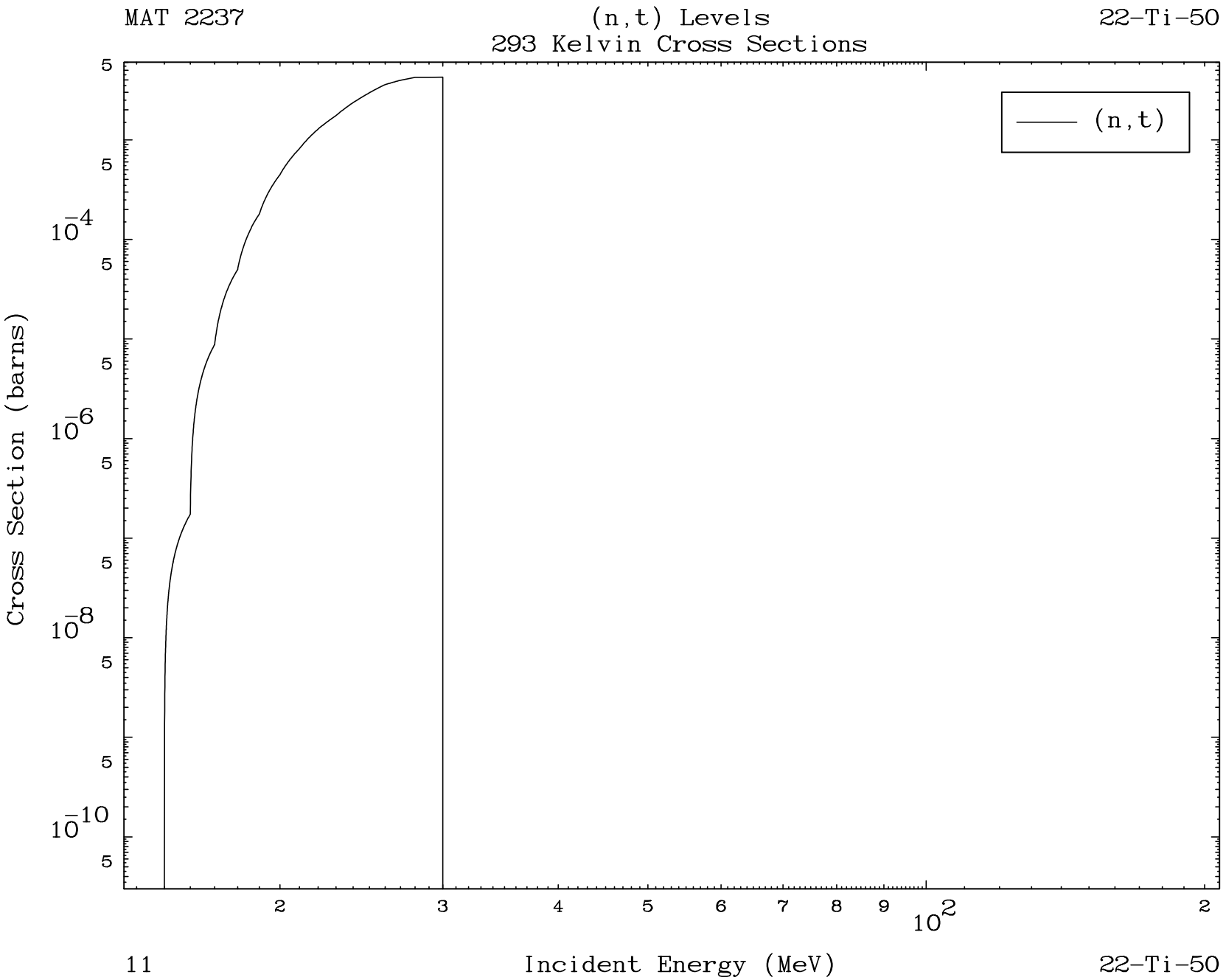

MAT 2237
(n,n') Level
22-Ti-50
293 Kelvin Cross Sections
Cross Section (barns)
Incident Energy (MeV)
Inelastic
MT= 51 (n,n') Level
MT= 52 (n,n') Level
MT= 53 (n,n') Level
MT= 54 (n,n') Level
MT= 55 (n,n') Level
MT= 56 (n,n') Level
MT= 57 (n,n') Level
MT= 58 (n,n') Level
MT= 59 (n,n') Level
MT= 60 (n,n') Level
6
22-Ti-50

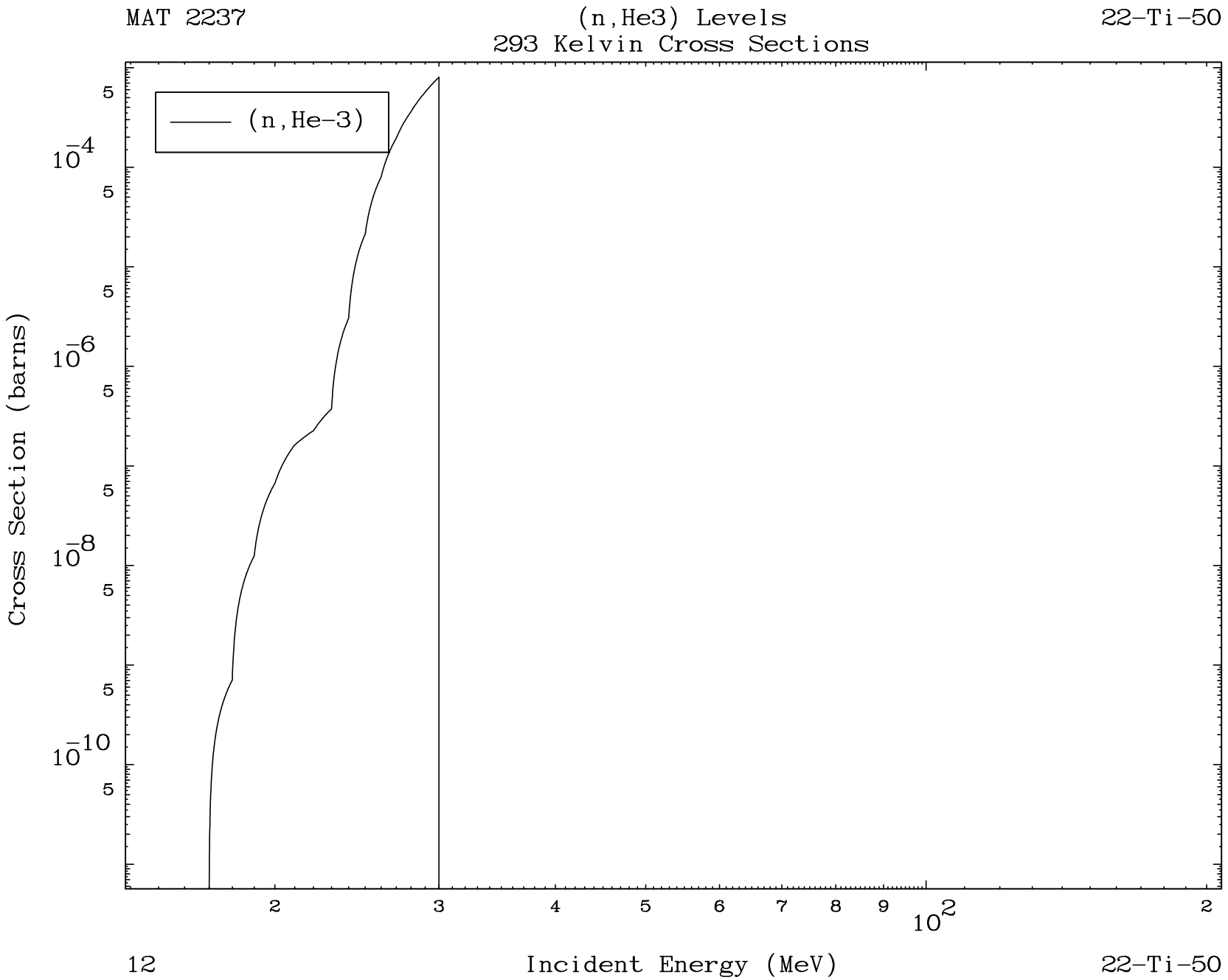

MAT 2237
(n,n') Level
293 Kelvin Cross Sections
22-Ti-50
Cross Section (barns)
Incident Energy (MeV)
MT= 61 (n,n') Level
MT= 62 (n,n') Level
MT= 63 (n,n') Level
MT= 64 (n,n') Level
MT= 65 (n,n') Level
MT= 66 (n,n') Level
MT= 67 (n,n') Level
MT= 68 (n,n') Level
MT= 69 (n,n') Level
MT= 70 (n,n') Level
MT= 71 (n,n') Level

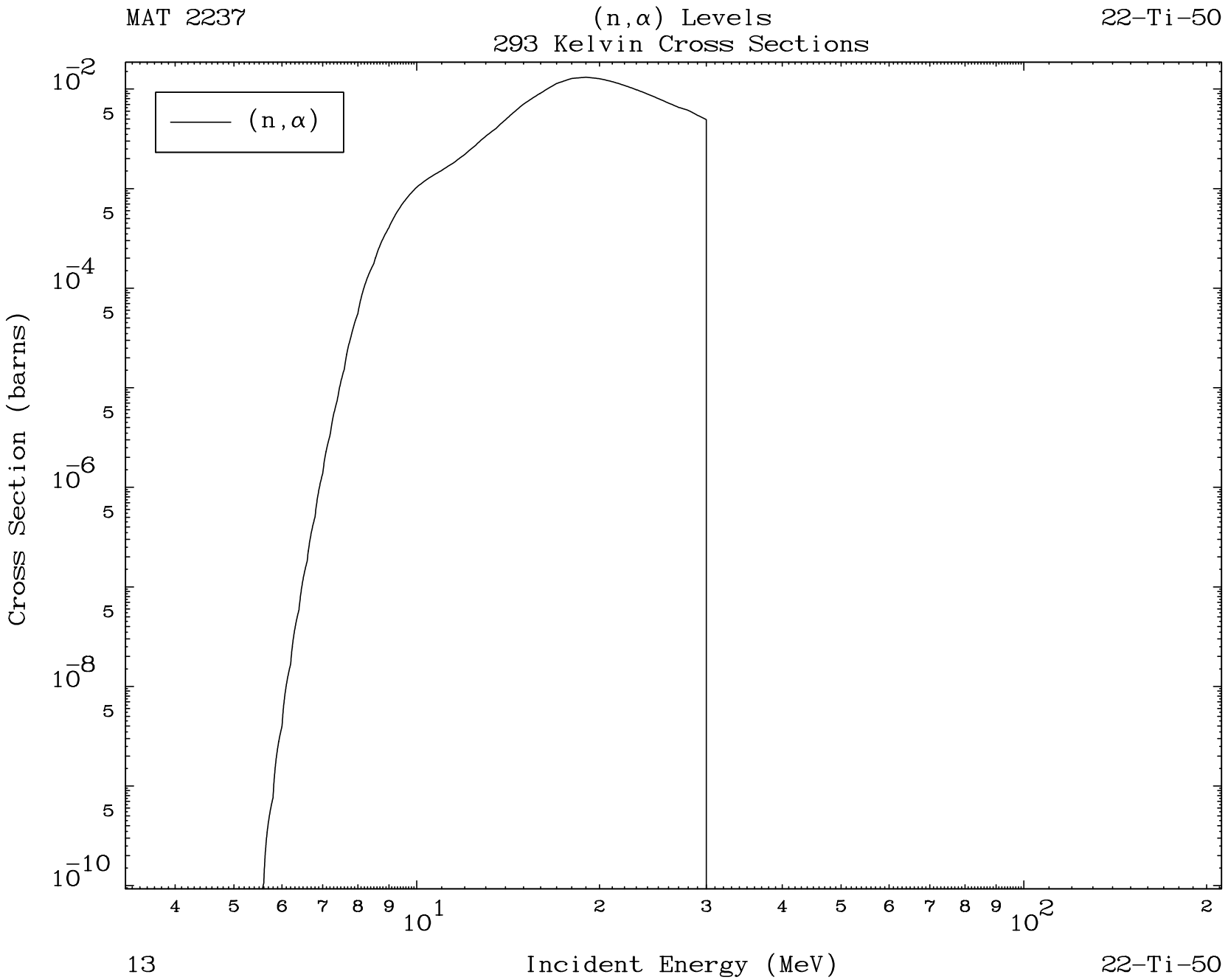

MAT 2237
(n,n') Level
293 Kelvin Cross Sections
22-Ti-50
Cross Section (barns)
Incident Energy (MeV)
MT= 72 (n,n') Level
MT= 73 (n,n') Level
MT= 74 (n,n') Level
MT= 75 (n,n') Level
MT= 76 (n,n') Level
MT= 77 (n,n') Level
MT= 78 (n,n') Level
MT= 79 (n,n') Level
MT= 80 (n,n') Level
(n,n') Continuum

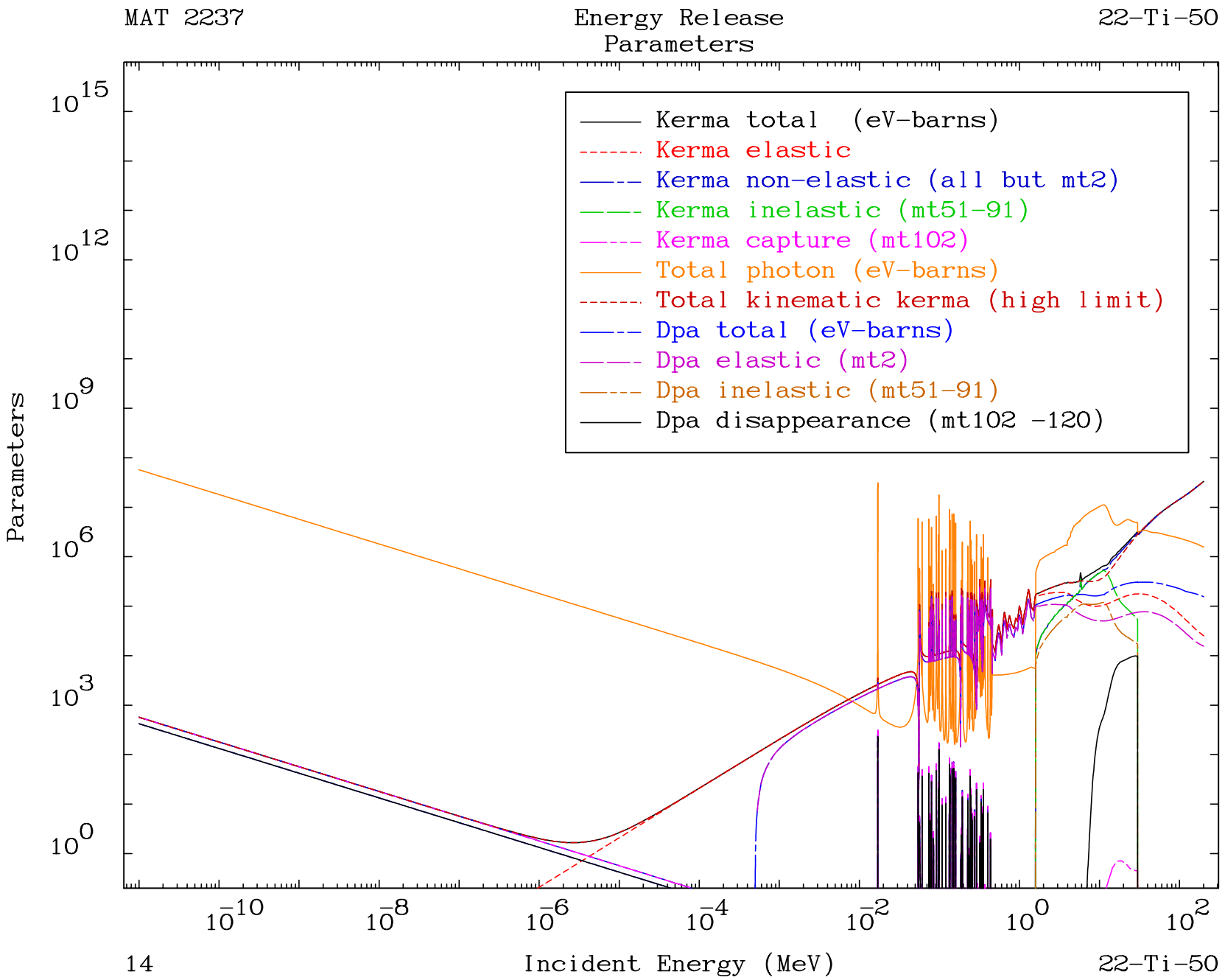

MAT 2237
(n,p) Levels
22-Ti-50
293 Kelvin Cross Sections
(n,p)
Cross Section (barns)
Incident Energy (MeV)
9
22-Ti-50

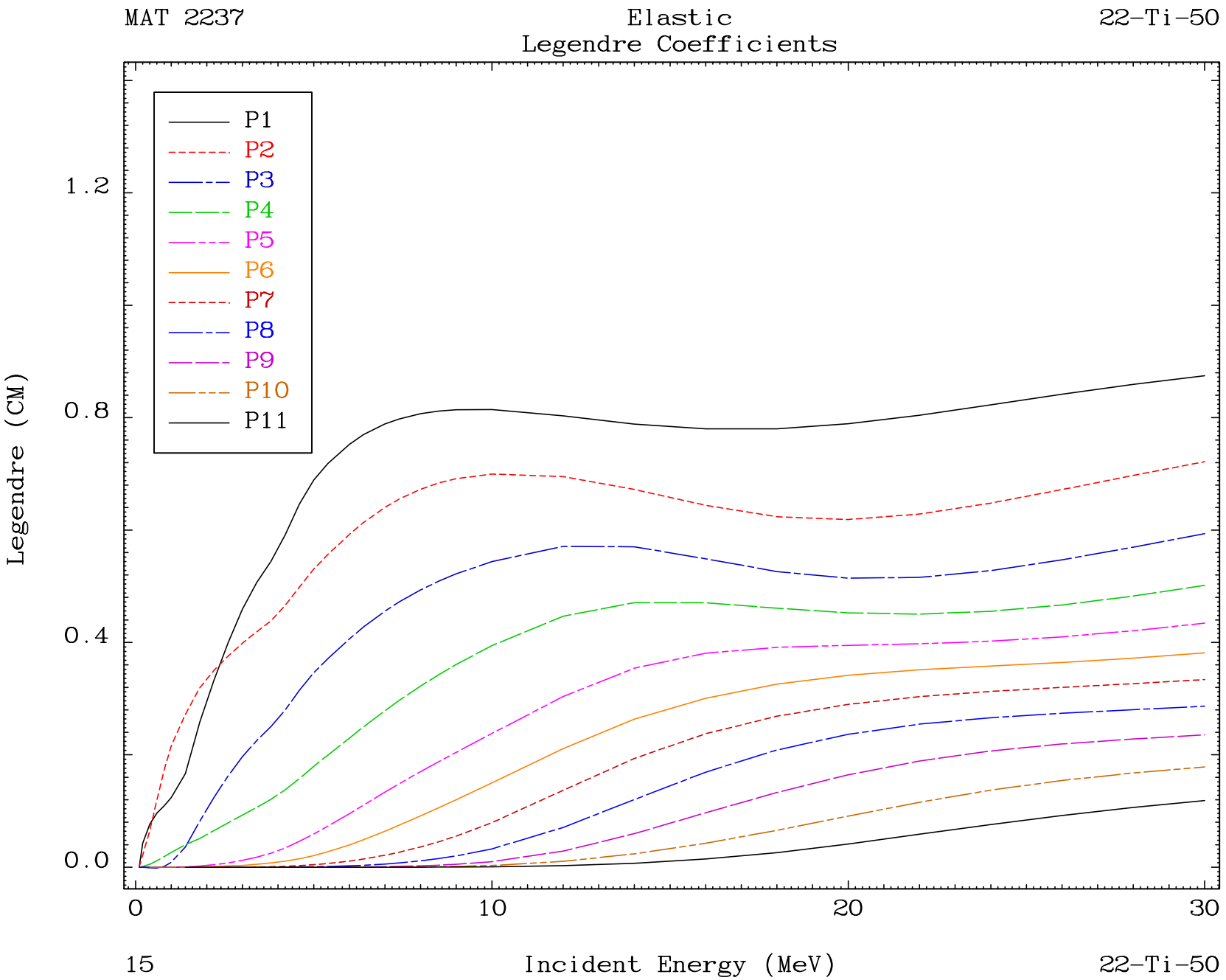

MAT 2237
(n,d) Levels
22-Ti-50
293 Kelvin Cross Sections
(n,d)
Cross Section (barns)
Incident Energy (MeV)
22-Ti-50

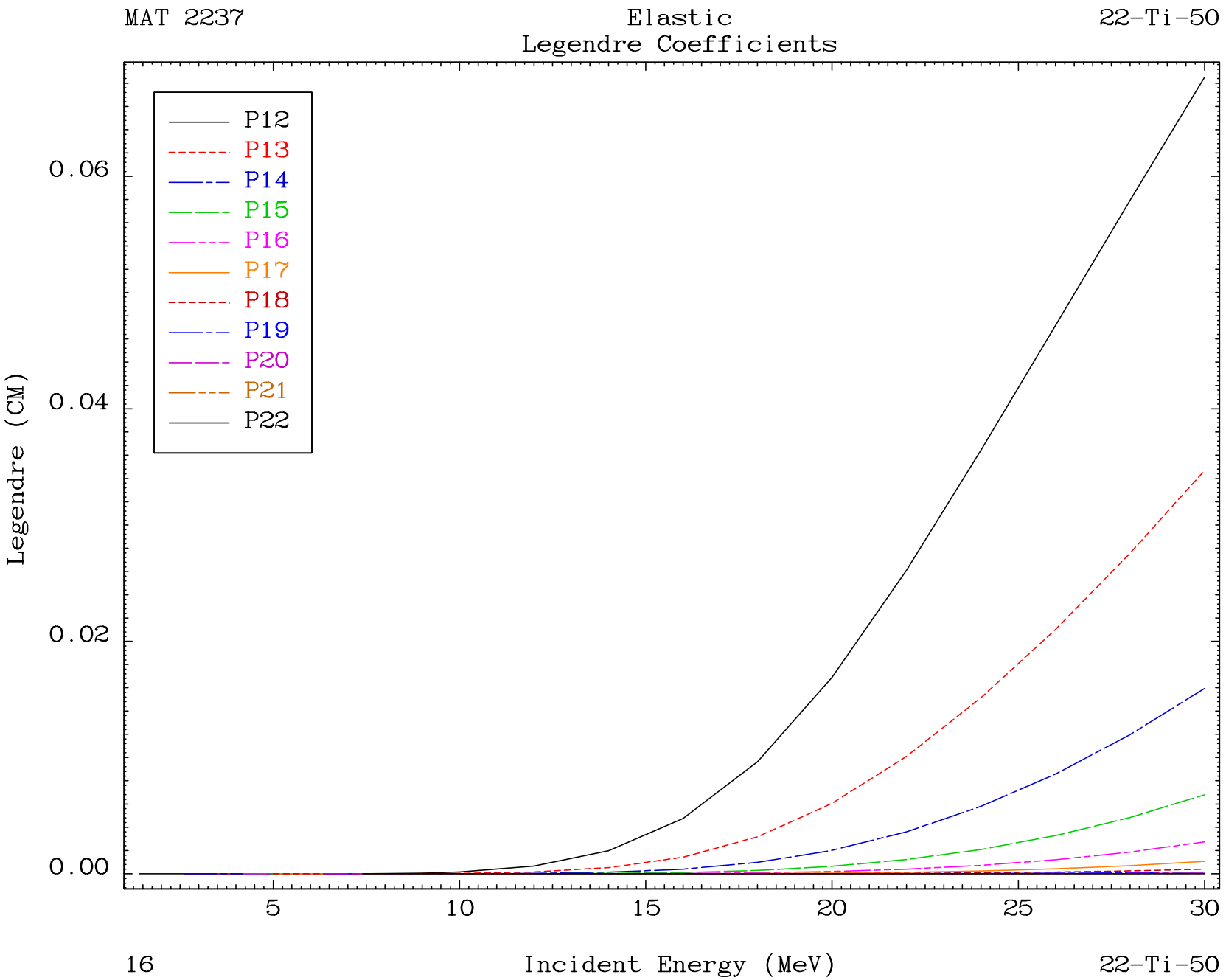

MAT 2237
(n,t) Levels
22-Ti-50
293 Kelvin Cross Sections
(n,t)
Cross Section (barns)
10-4
10-6
10-8
10-10
Incident Energy (MeV)
11
22-Ti-50

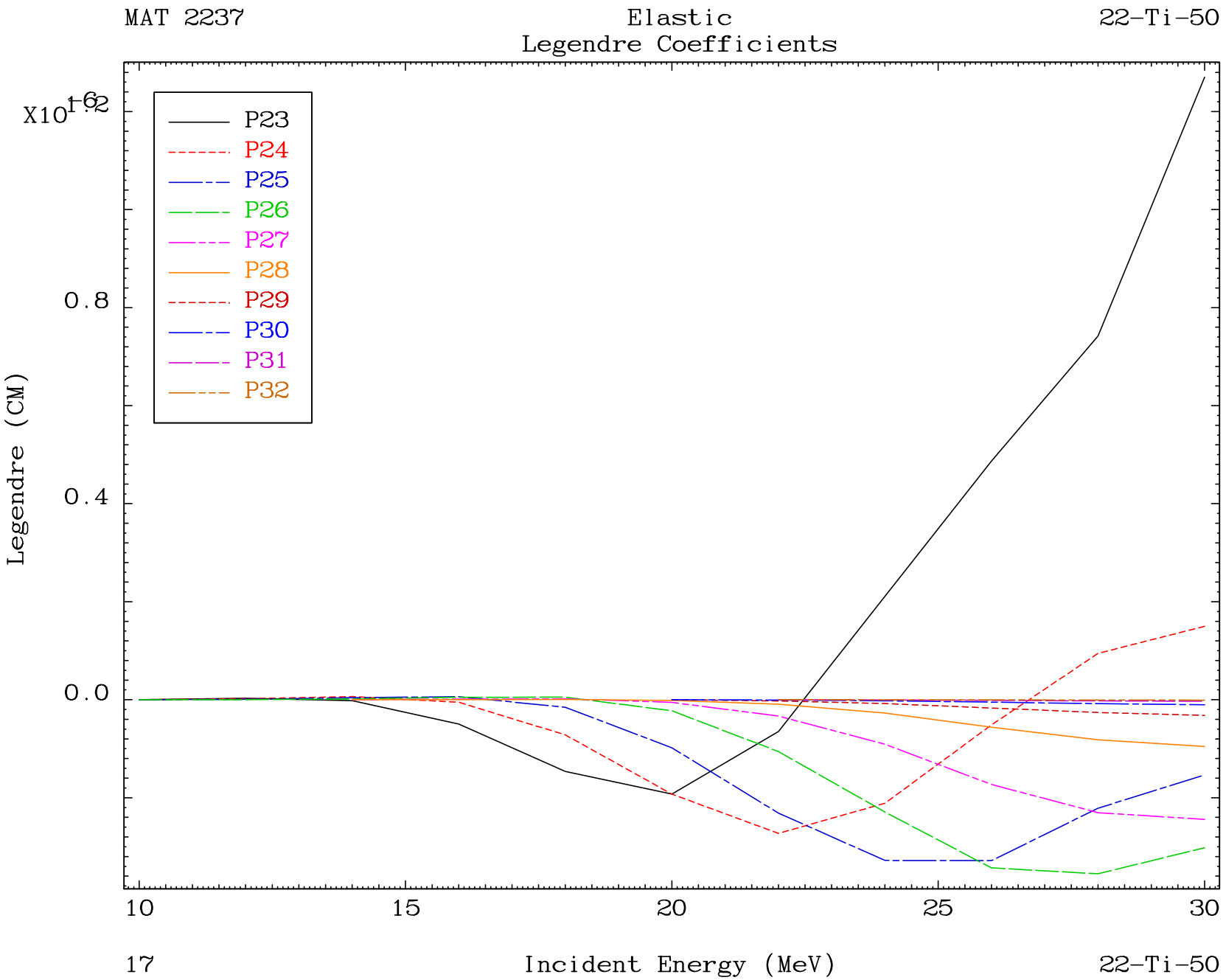

MAT 2237
(n,He3) Levels
22-Ti-50
293 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
10-4
10-6
10-8
10-10
5
2
3
4
5
6
7
8
9
10 2
2
12
Incident Energy (MeV)
22-Ti-50

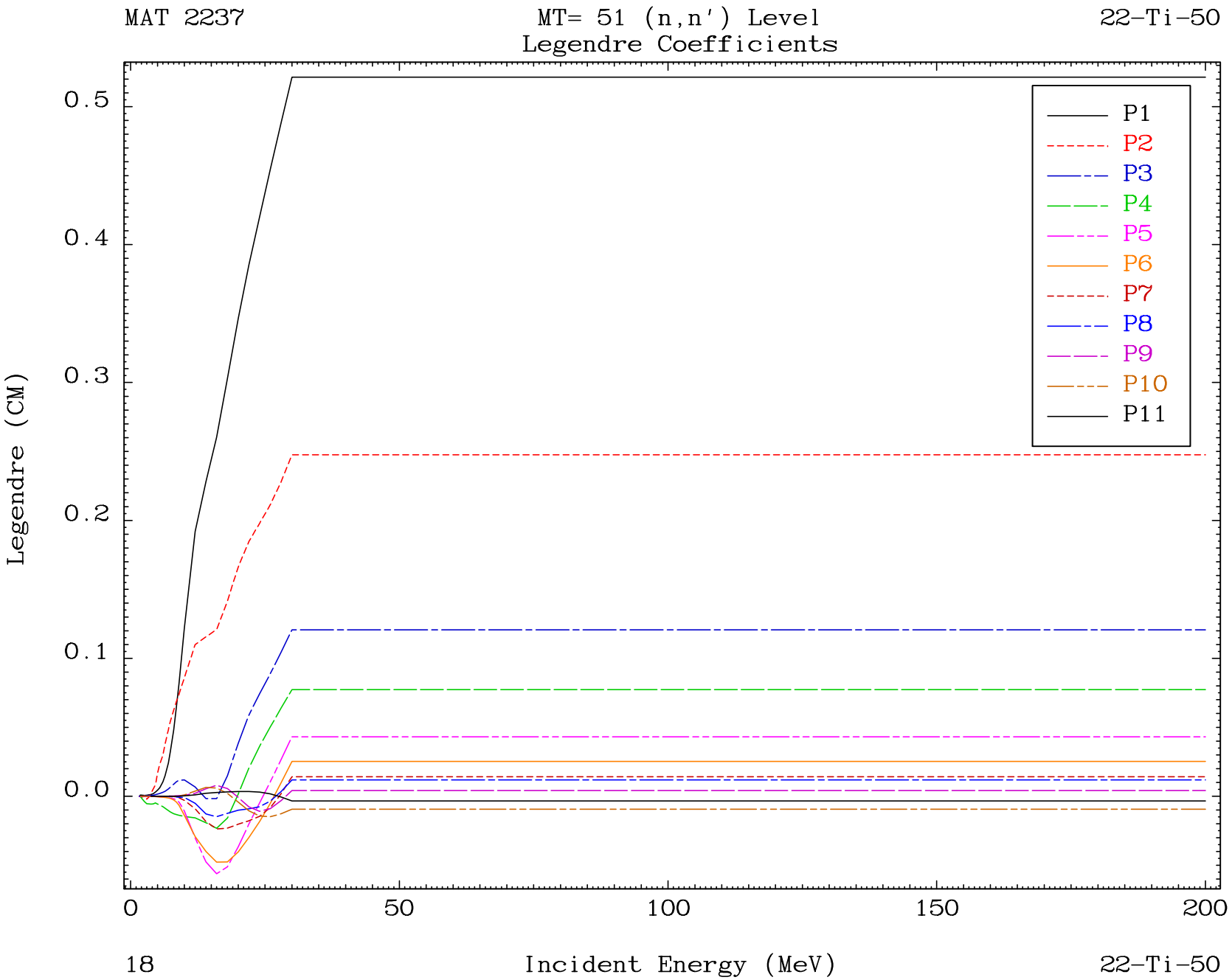

MAT 2237
(n,α) Levels
22-Ti-50
293 Kelvin Cross Sections
(n,α)
Cross Section (barns)
Incident Energy (MeV)
13
22-Ti-50

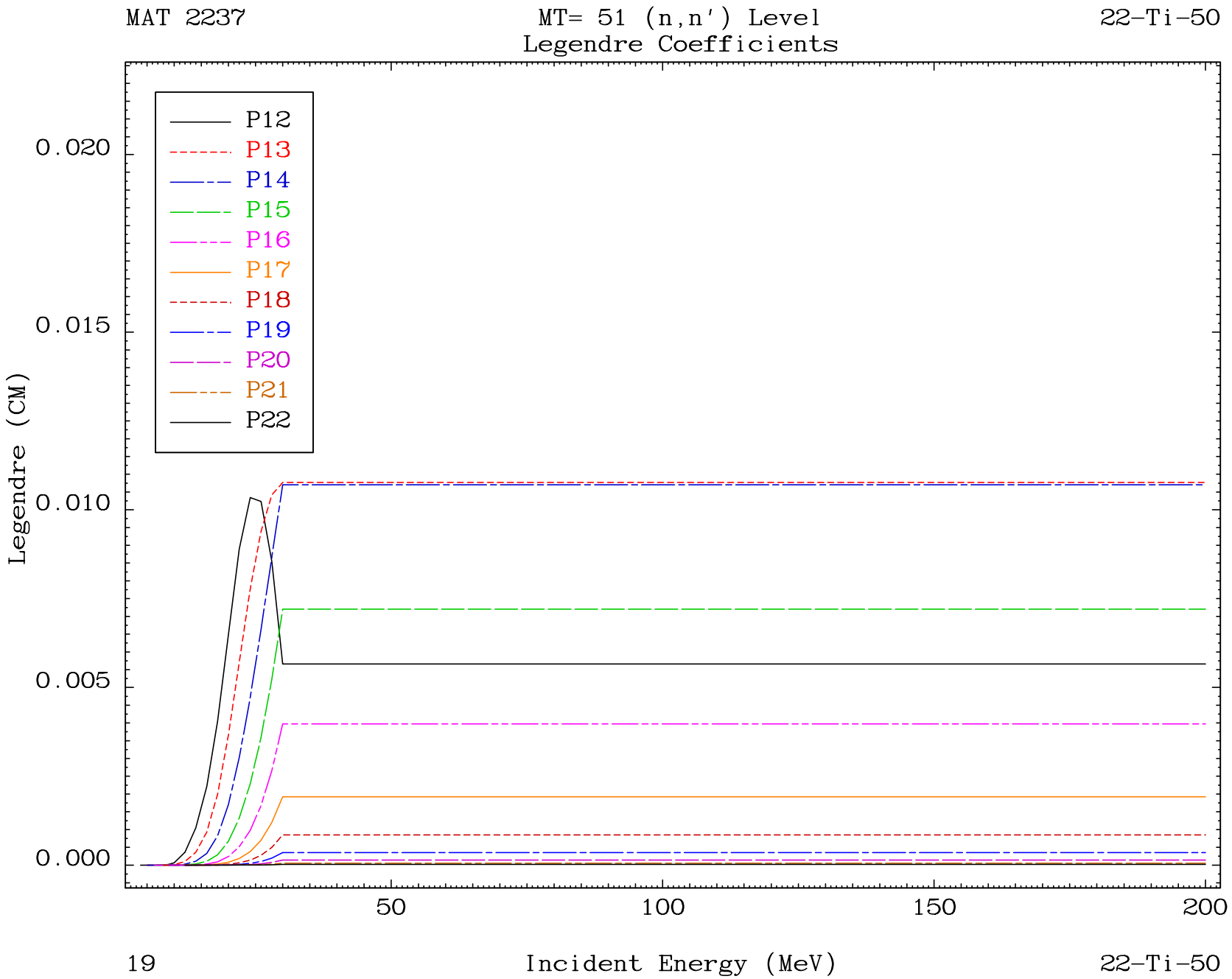

MAT 2237
Energy Release
Parameters
22-Ti-50
Kerma total (eV-barns)
Kerma elastic
Kerma non-elastic (all but mt2)
Kerma inelastic (mt51-91)
Kerma capture (mt102)
Total photon (eV-barns)
Total kinematic kerma (high limit)
Dpa total (eV-barns)
Dpa elastic (mt2)
Dpa inelastic (mt51-91)
Dpa disappearance (mt102 -120)
Parameters
10^{15}
10^{12}
10^{9}
10^{6}
10^{3}
10^{0}
10^{-10}
10^{-8}
10^{-6}
10^{-4}
10^{-2}
10^{0}
10^{2}
Incident Energy (MeV)
14
22-Ti-50

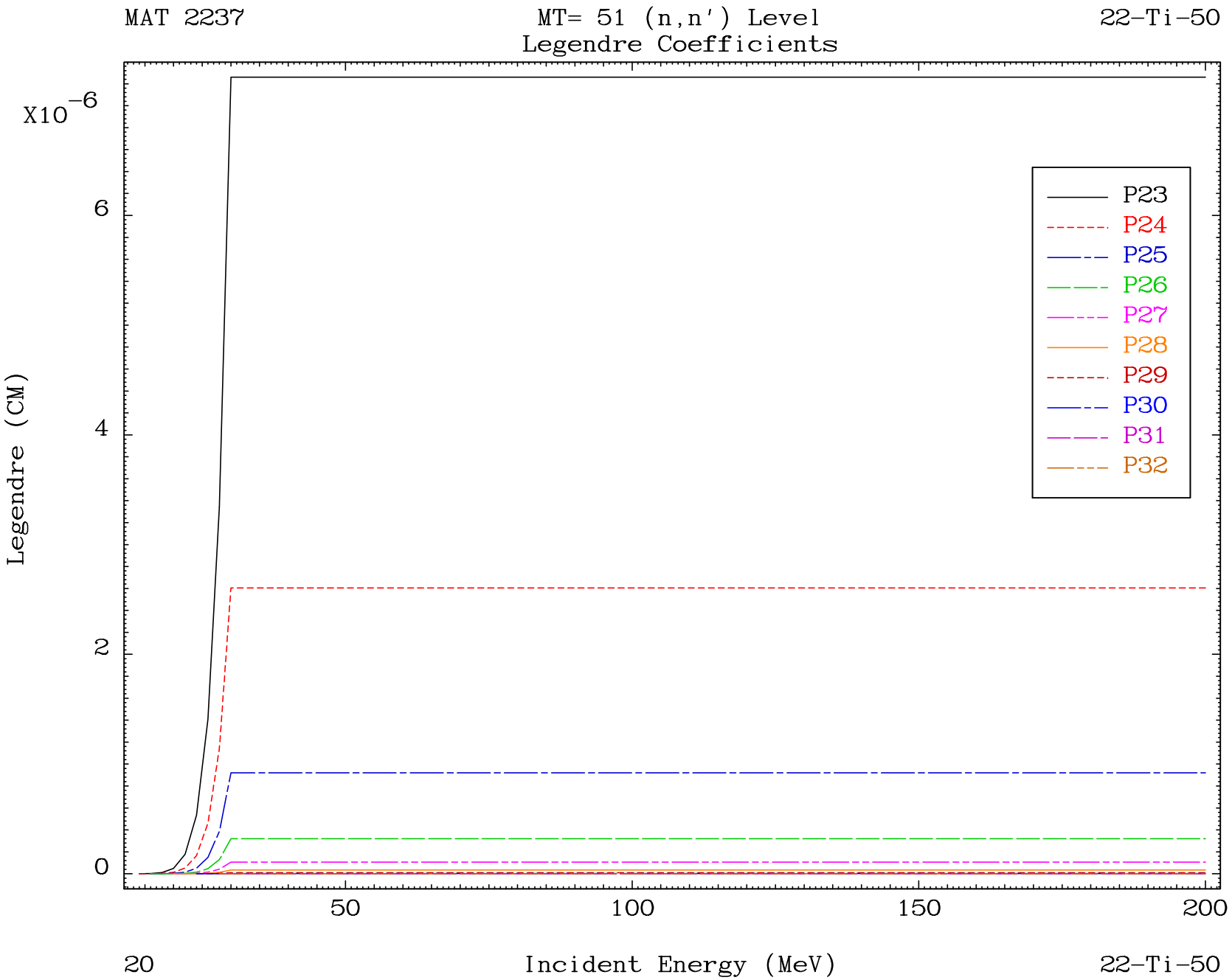

MAT 2237
Elastic
Legendre Coefficients
22-Ti-50
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11
Legendre (CM)
1.2
0.8
0.4
0.0
0
10
20
30
15
Incident Energy (MeV)
22-Ti-50

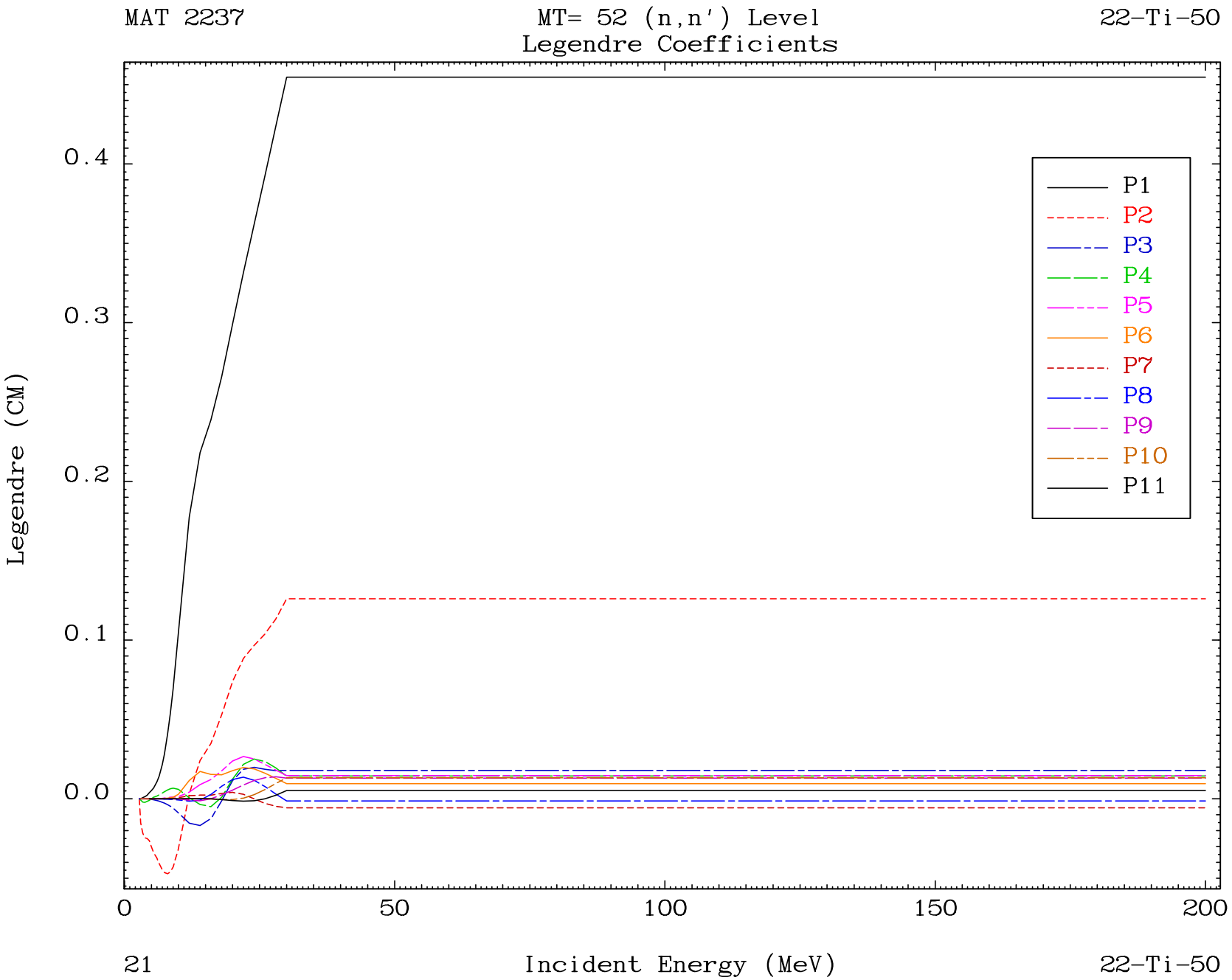

MAT 2237
Elastic
Legendre Coefficients
22-Ti-50
P12
P13
P14
P15
P16
P17
P18
P19
P20
P21
P22
0.06
0.04
0.02
0.00
Legendre (CM)
5
10
15
20
25
30
16
Incident Energy (MeV)
22-Ti-50

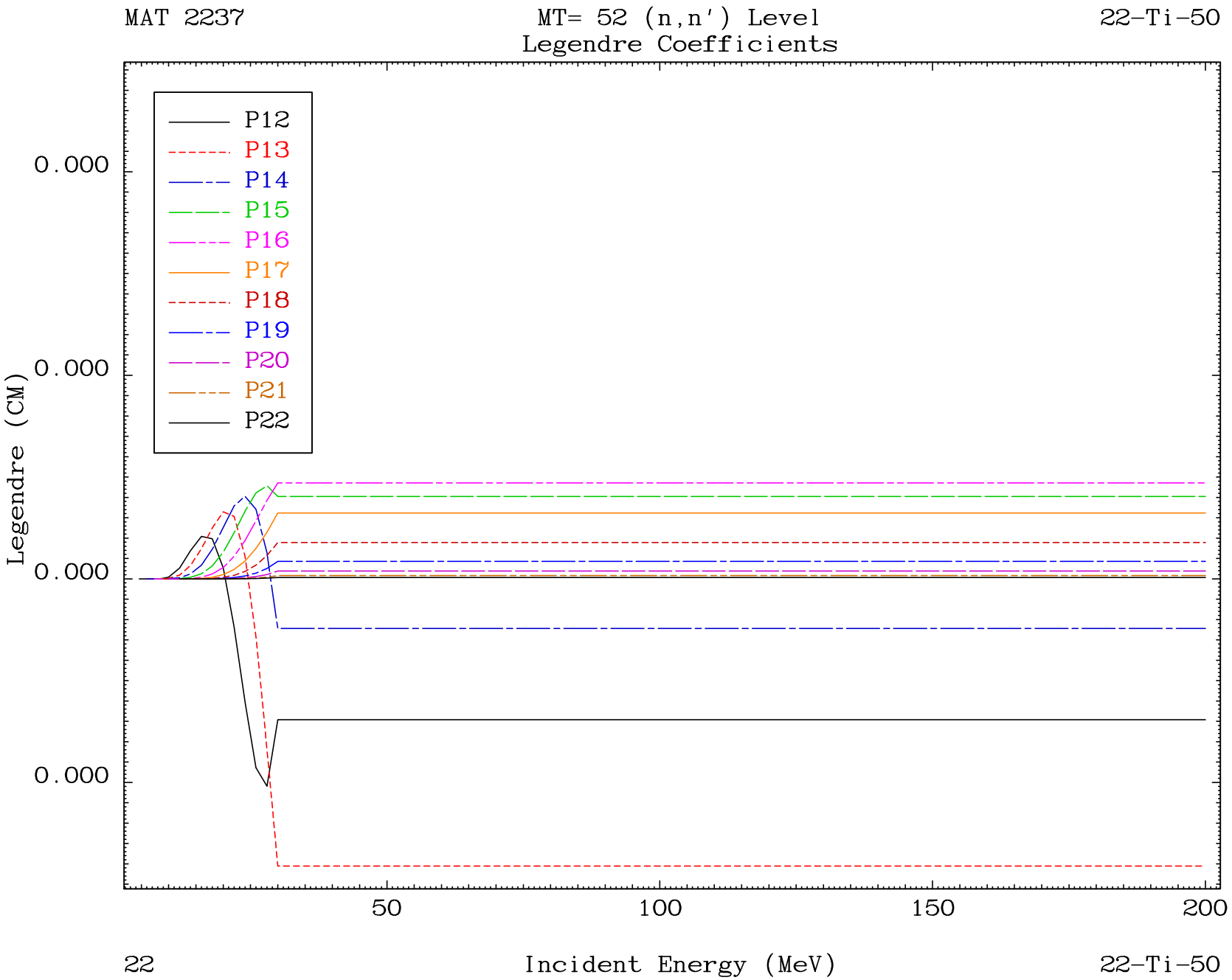

MAT 2237
Elastic
Legendre Coefficients
22-Ti-50
X10-2
1.6
0.8
0.4
0.0
Legendre (CM)
P23
P24
P25
P26
P27
P28
P29
P30
P31
P32
10
15
20
25
30
17
Incident Energy (MeV)
22-Ti-50

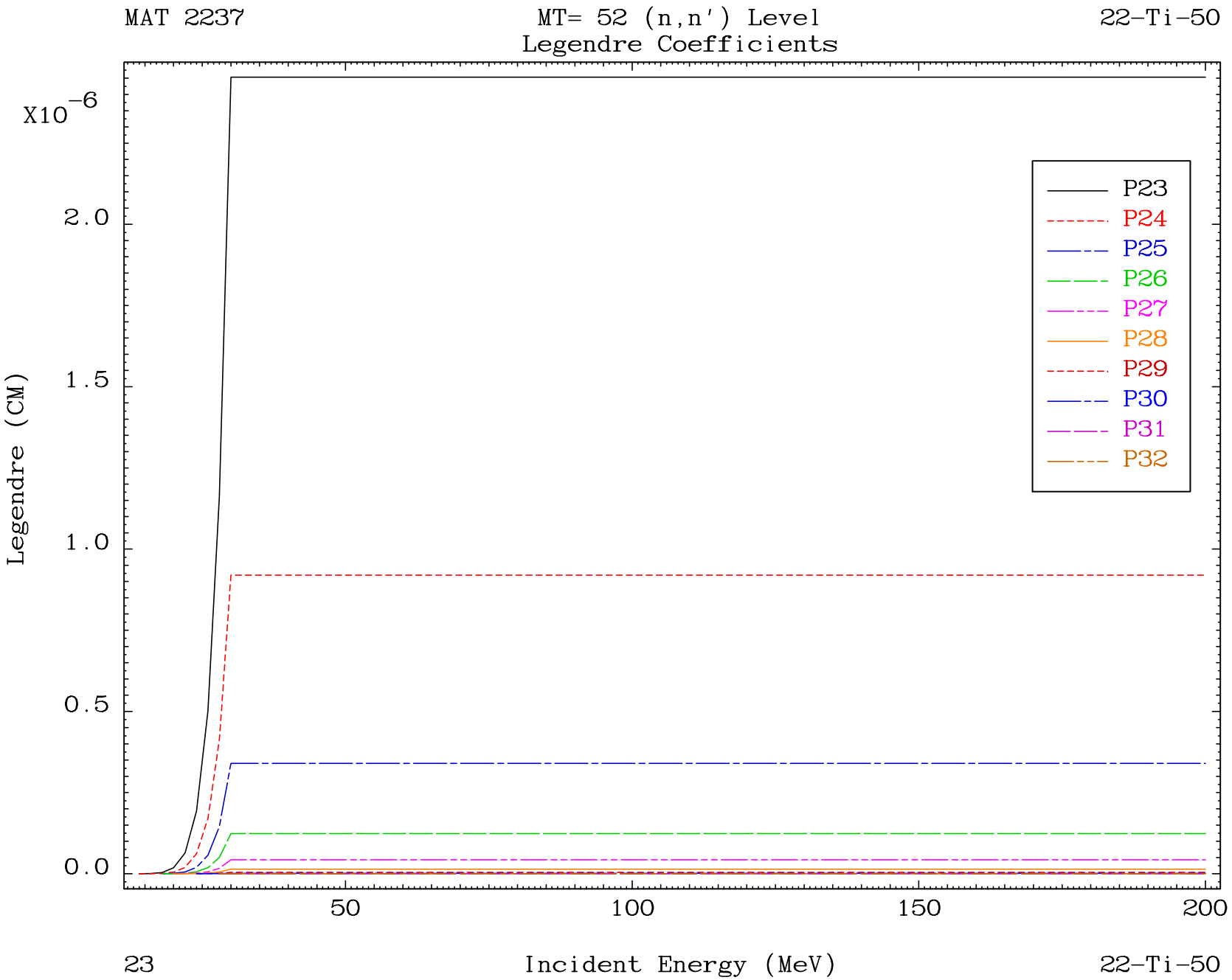

MAT 2237
MT= 51 (n,n') Level
Legendre Coefficients
22-Ti-50
Legendre (CM)
0.5
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
Incident Energy (MeV)
18
22-Ti-50
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11

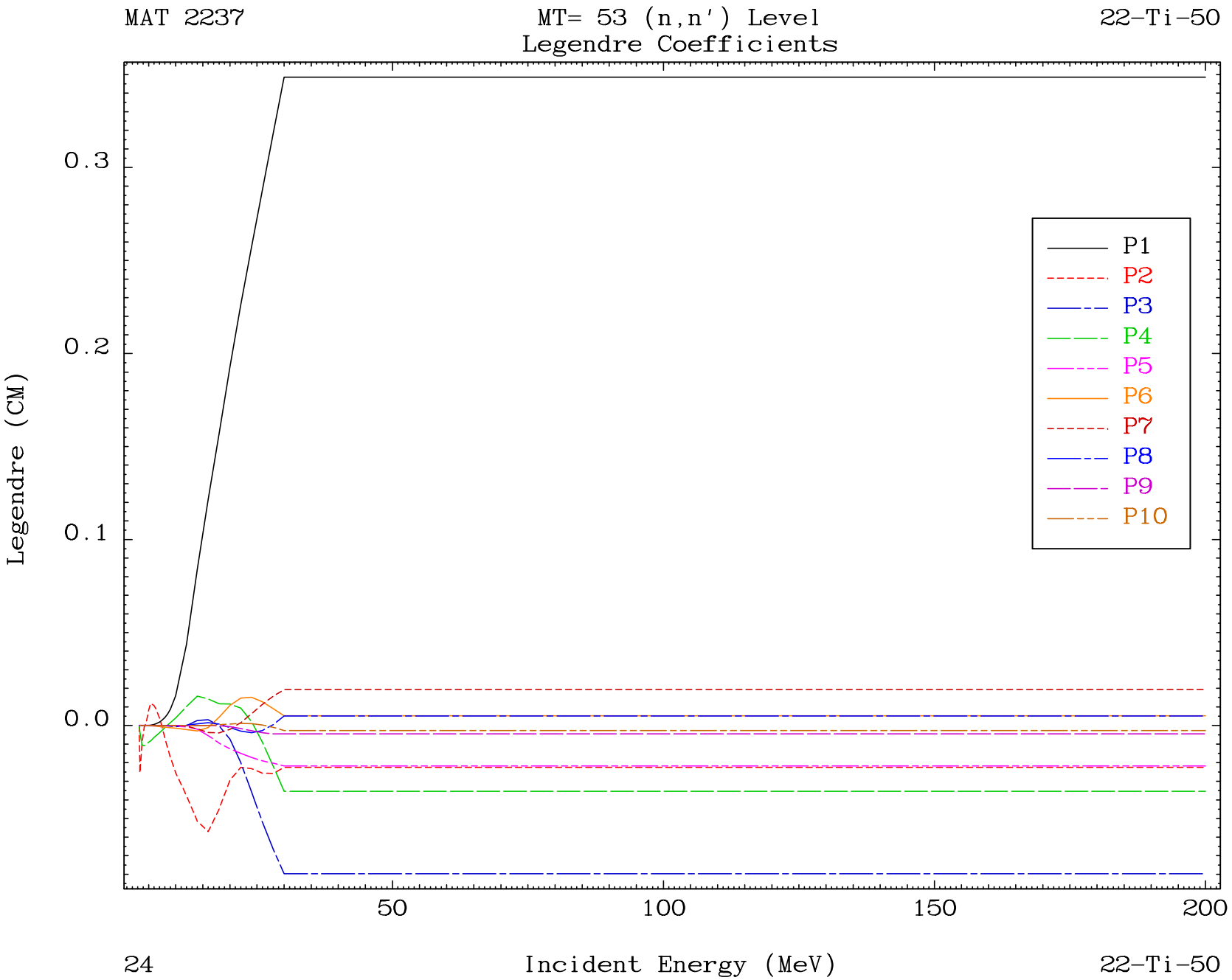

MAT 2237
MT= 51 (n,n') Level
Legendre Coefficients
22-Ti-50
P12
P13
P14
P15
P16
P17
P18
P19
P20
P21
P22
0.020
0.015
0.010
0.005
0.000
Legendre (CM)
50
100
150
200
19
Incident Energy (MeV)
22-Ti-50

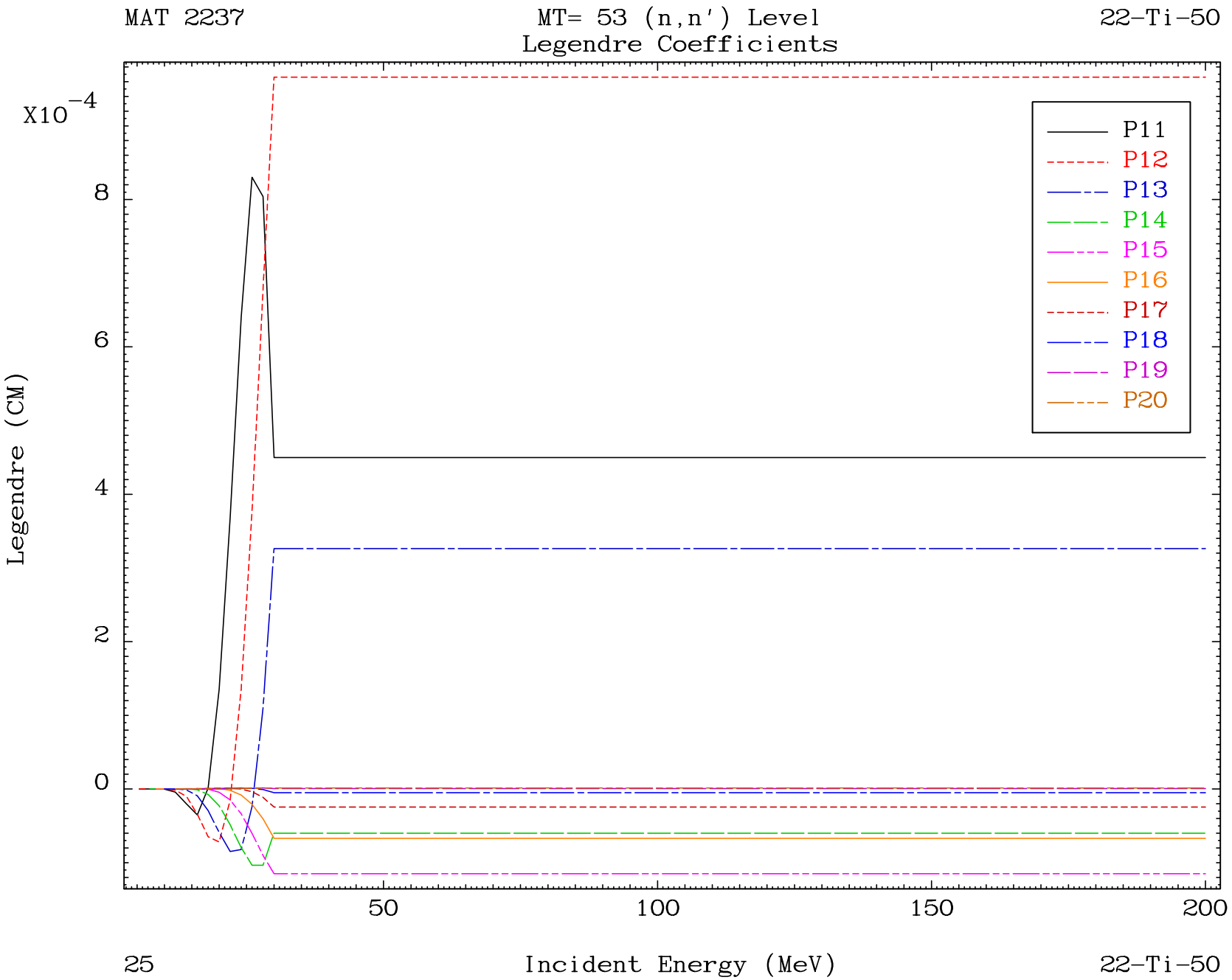

MAT 2237
MT= 51 (n,n') Level
Legendre Coefficients
22-Ti-50
X10^-6
6
4
2
0
Legendre (CM)
P23
P24
P25
P26
P27
P28
P29
P30
P31
P32
50
100
150
200
20
Incident Energy (MeV)
22-Ti-50

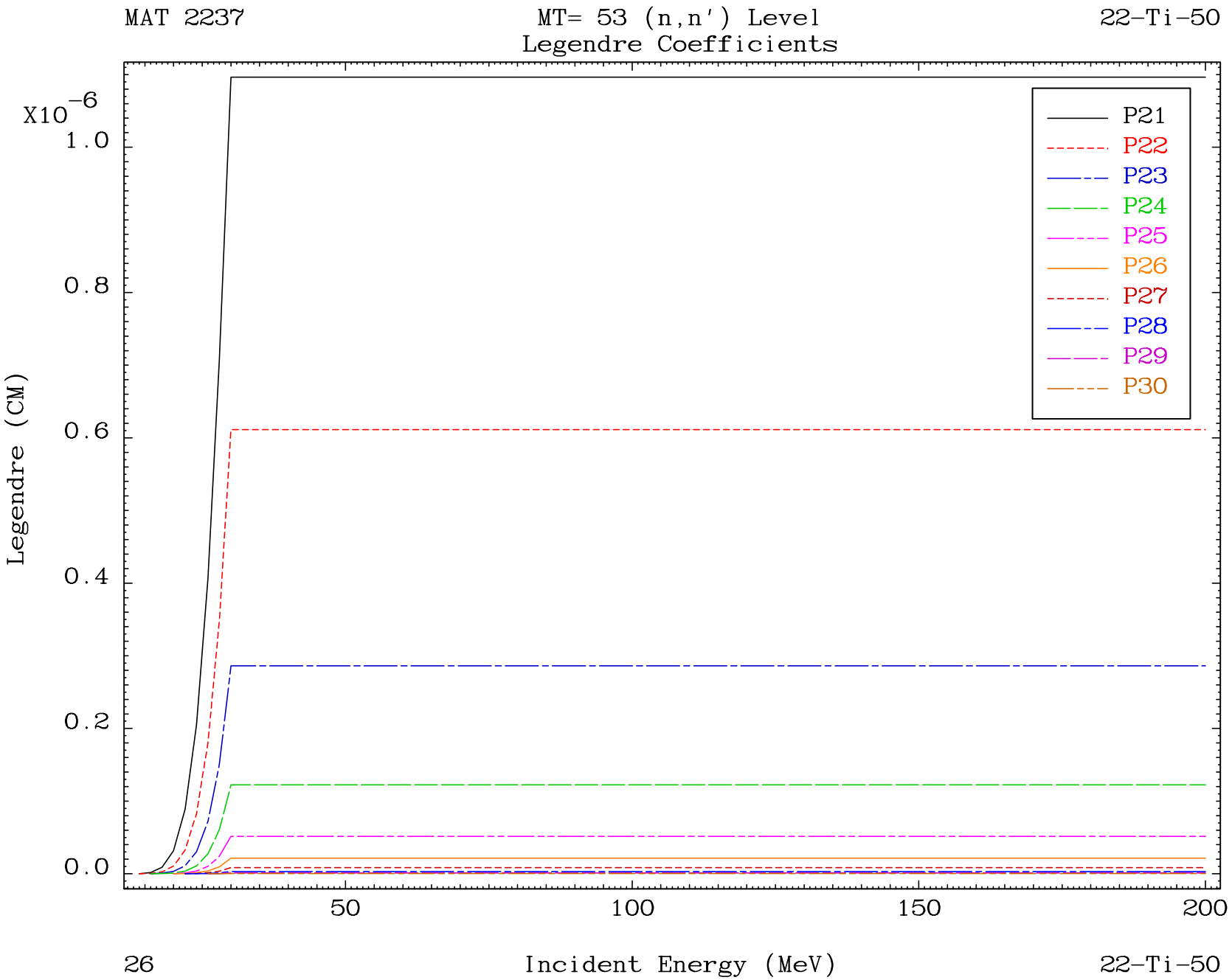

MAT 2237
MT= 52 (n,n') Level
Legendre Coefficients
22-Ti-50
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
Incident Energy (MeV)
21
22-Ti-50
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11

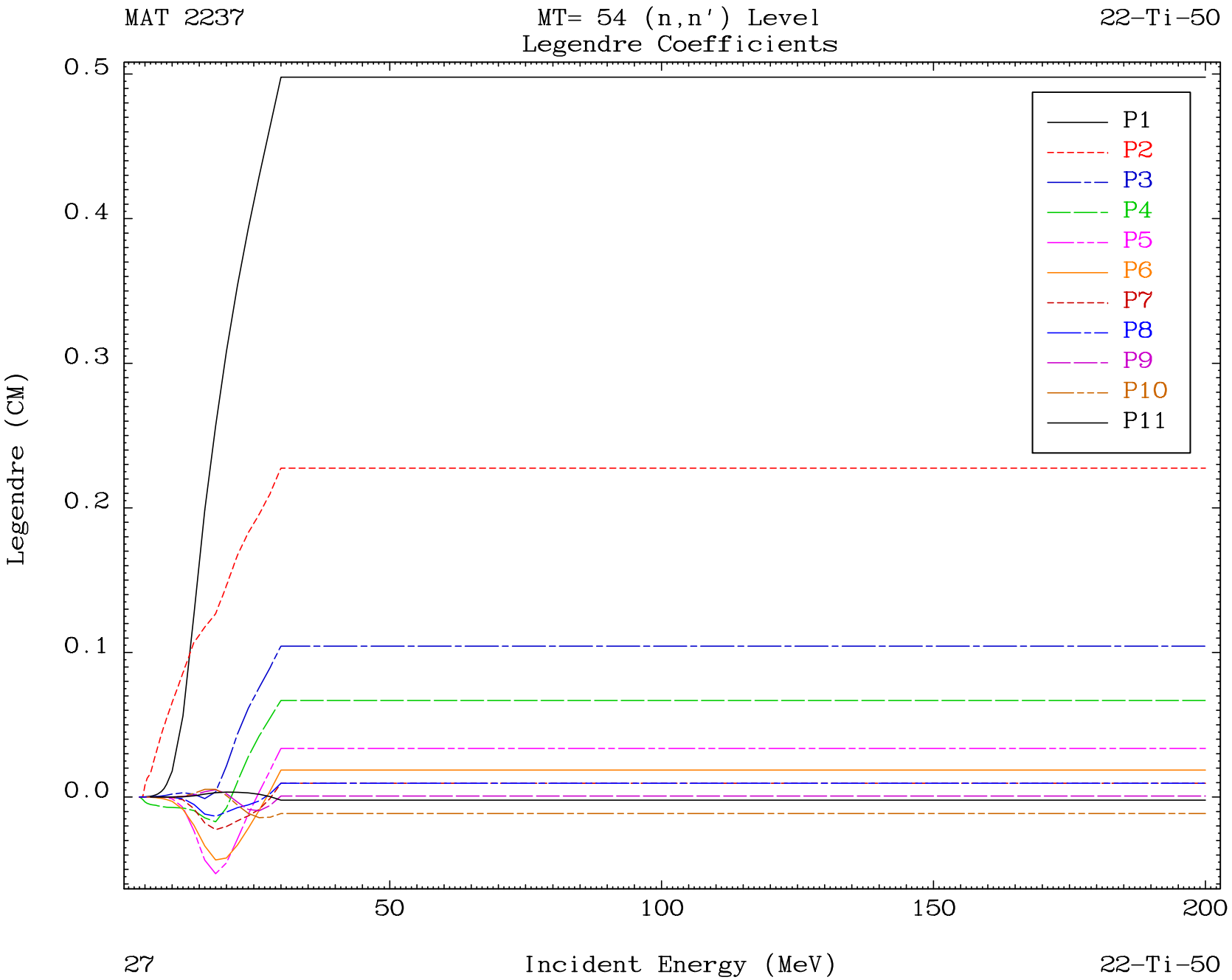

MAT 2237
MT= 52 (n,n') Level
Legendre Coefficients
22-Ti-50
P12
P13
P14
P15
P16
P17
P18
P19
P20
P21
P22
0.000
0.000
0.000
Legendre (CM)
50
100
150
200
22
Incident Energy (MeV)
22-Ti-50

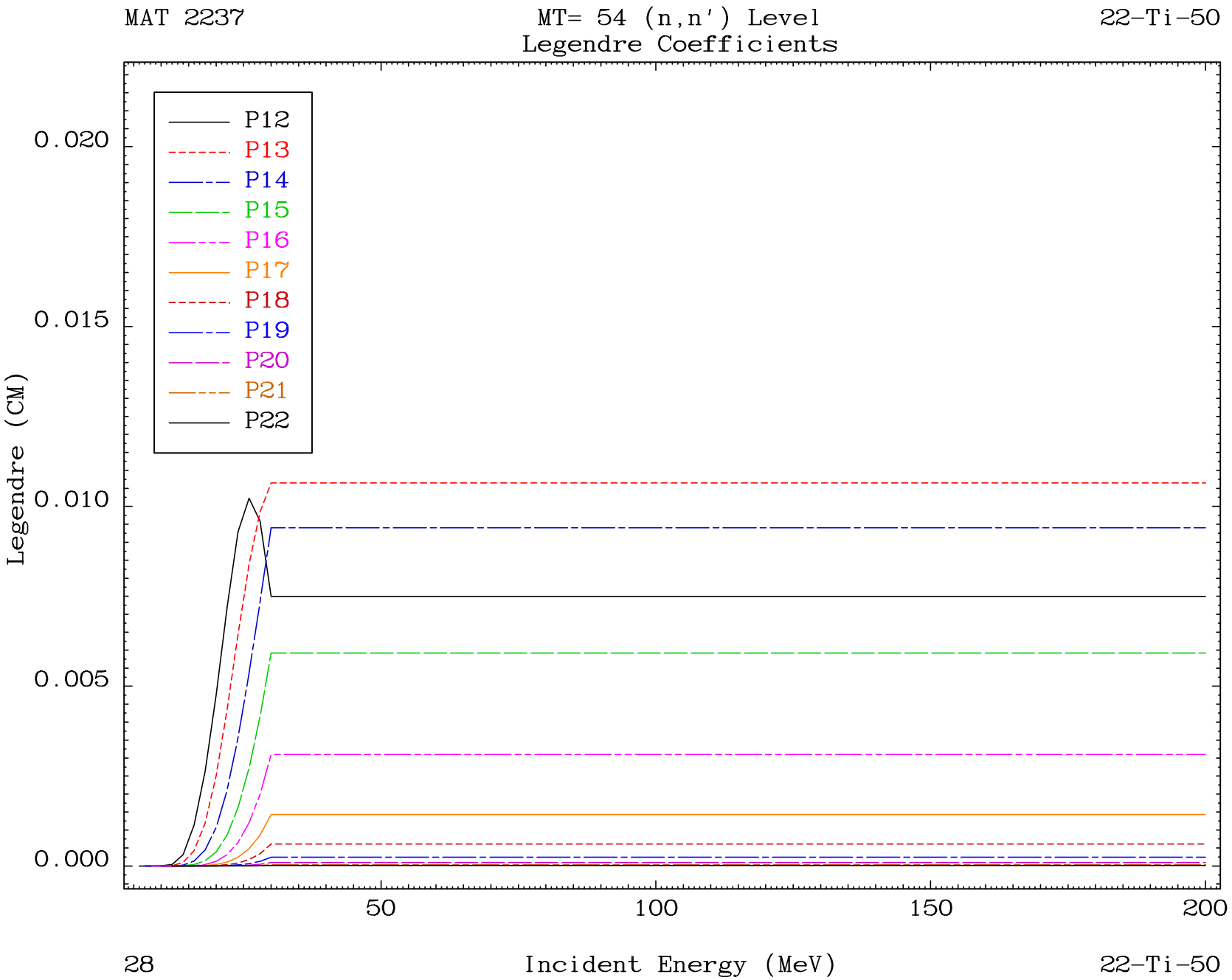

MAT 2237
MT= 52 (n,n') Level
Legendre Coefficients
22-Ti-50
X10^-6
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P23
P24
P25
P26
P27
P28
P29
P30
P31
P32
50
100
150
200
23
Incident Energy (MeV)
22-Ti-50

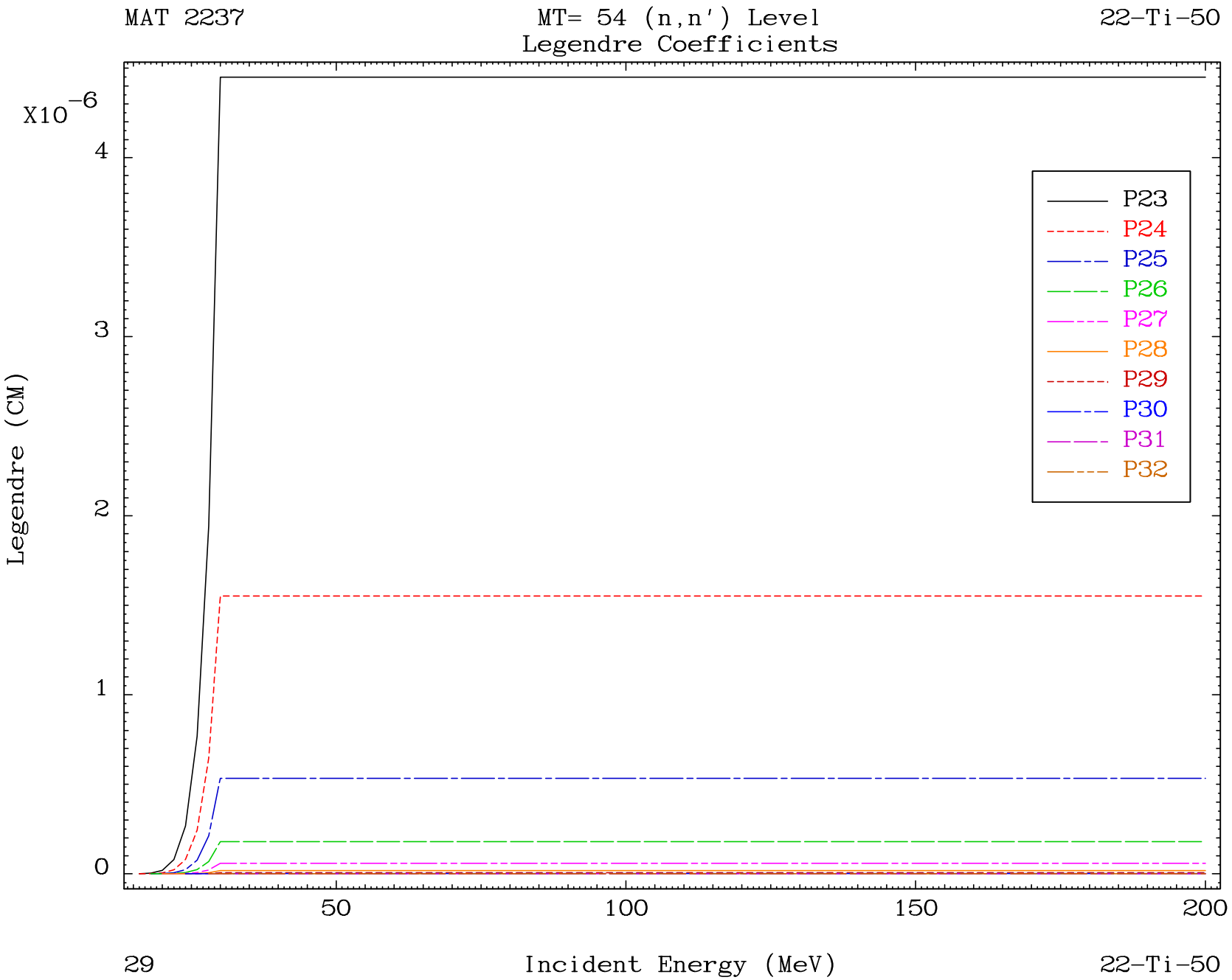

MAT 2237
MT= 53 (n,n') Level
Legendre Coefficients
22-Ti-50
Legendre (CM)
0.3
0.2
0.1
0.0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
24
Incident Energy (MeV)
22-Ti-50

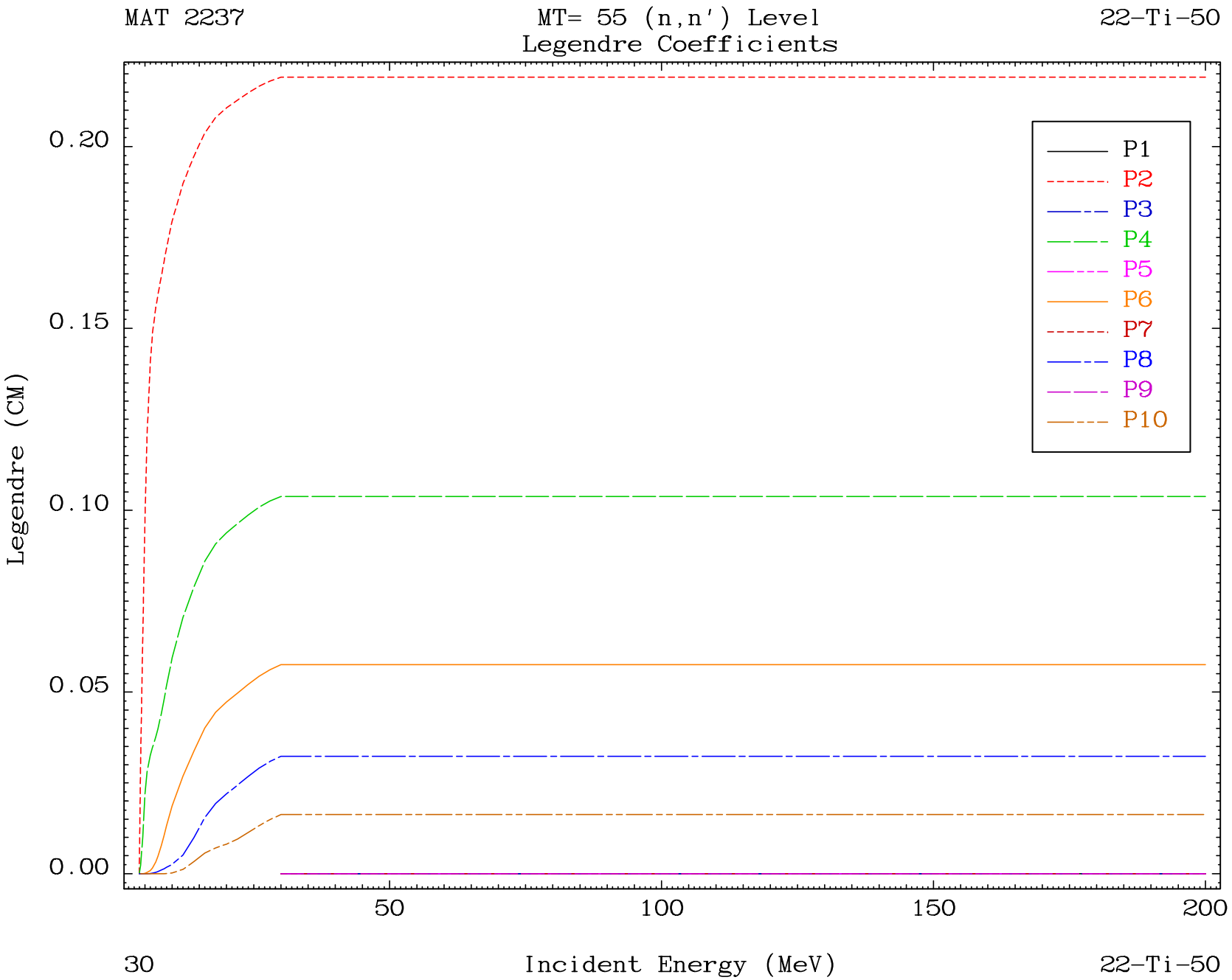

MAT 2237
MT= 53 (n,n') Level
Legendre Coefficients
22-Ti-50
X10^{-4}
8
6
4
2
0
Legendre (CM)
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
50
100
150
200
25
Incident Energy (MeV)
22-Ti-50

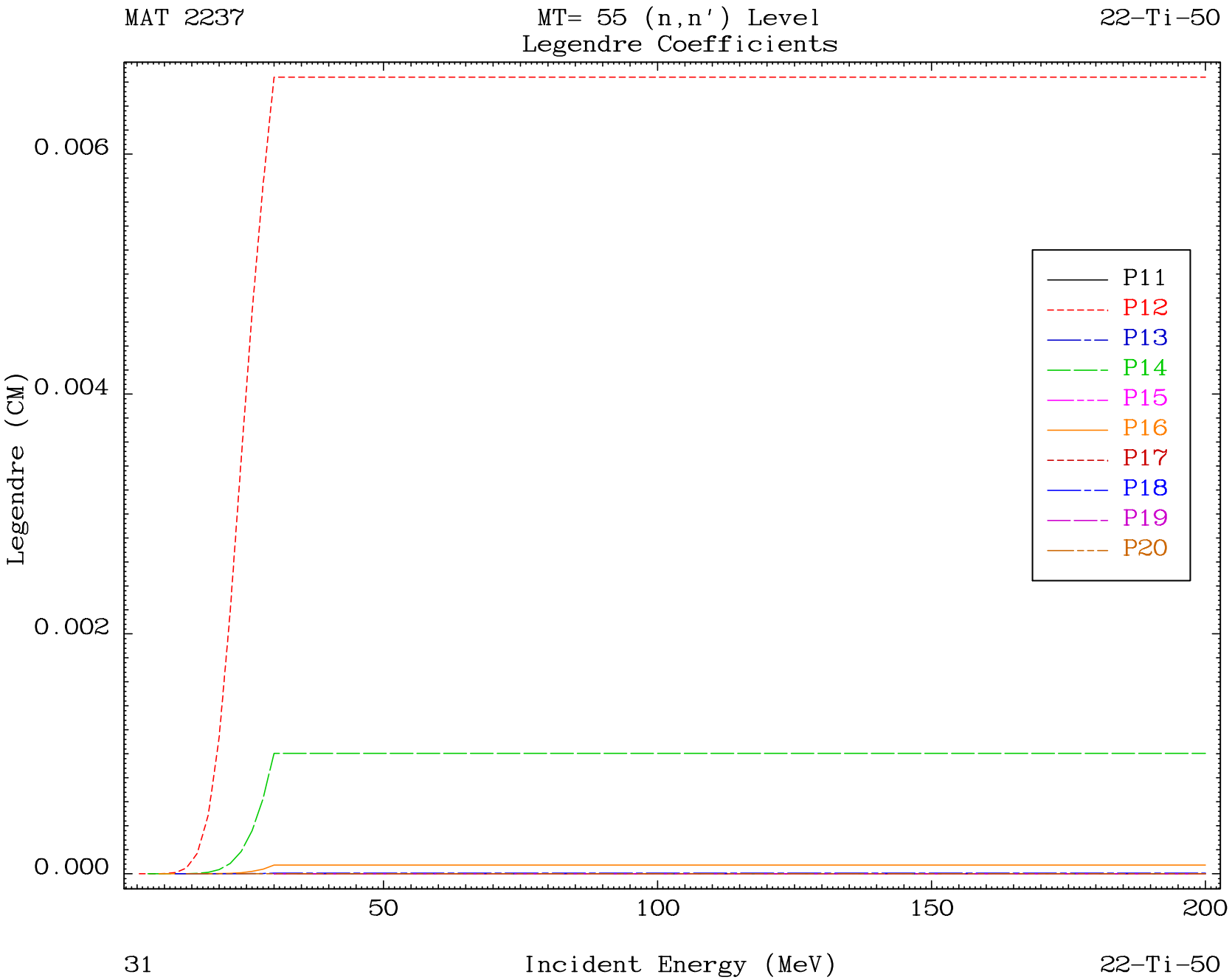

MAT 2237
MT= 53 (n,n') Level
Legendre Coefficients
22-Ti-50
X10^-6
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
50
100
150
200
26
Incident Energy (MeV)
22-Ti-50

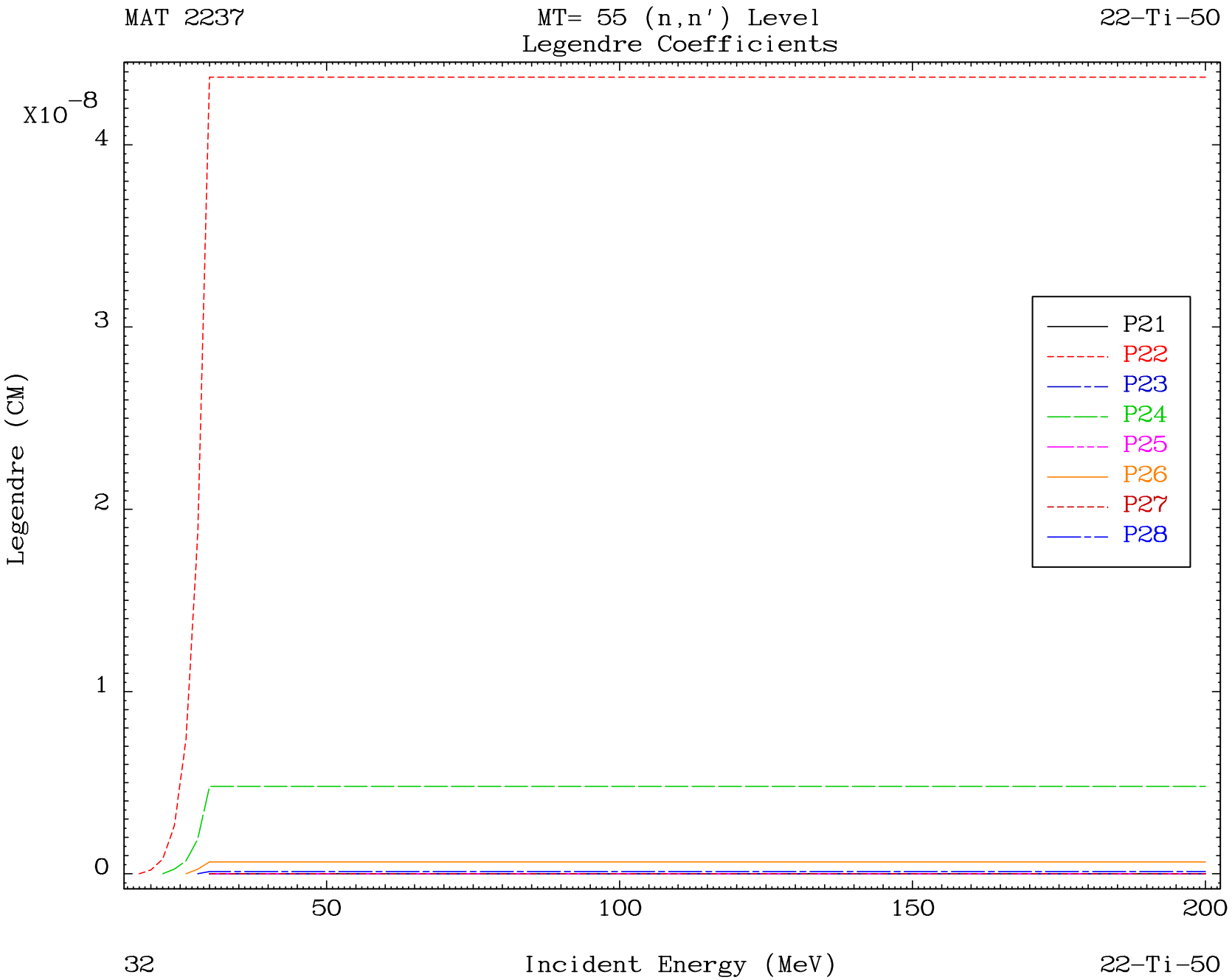

MAT 2237
MT= 54 (n,n') Level
Legendre Coefficients
22-Ti-50
0.5
0.4
0.3
0.2
0.1
0.0
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11
50
100
150
200
27
Incident Energy (MeV)
22-Ti-50

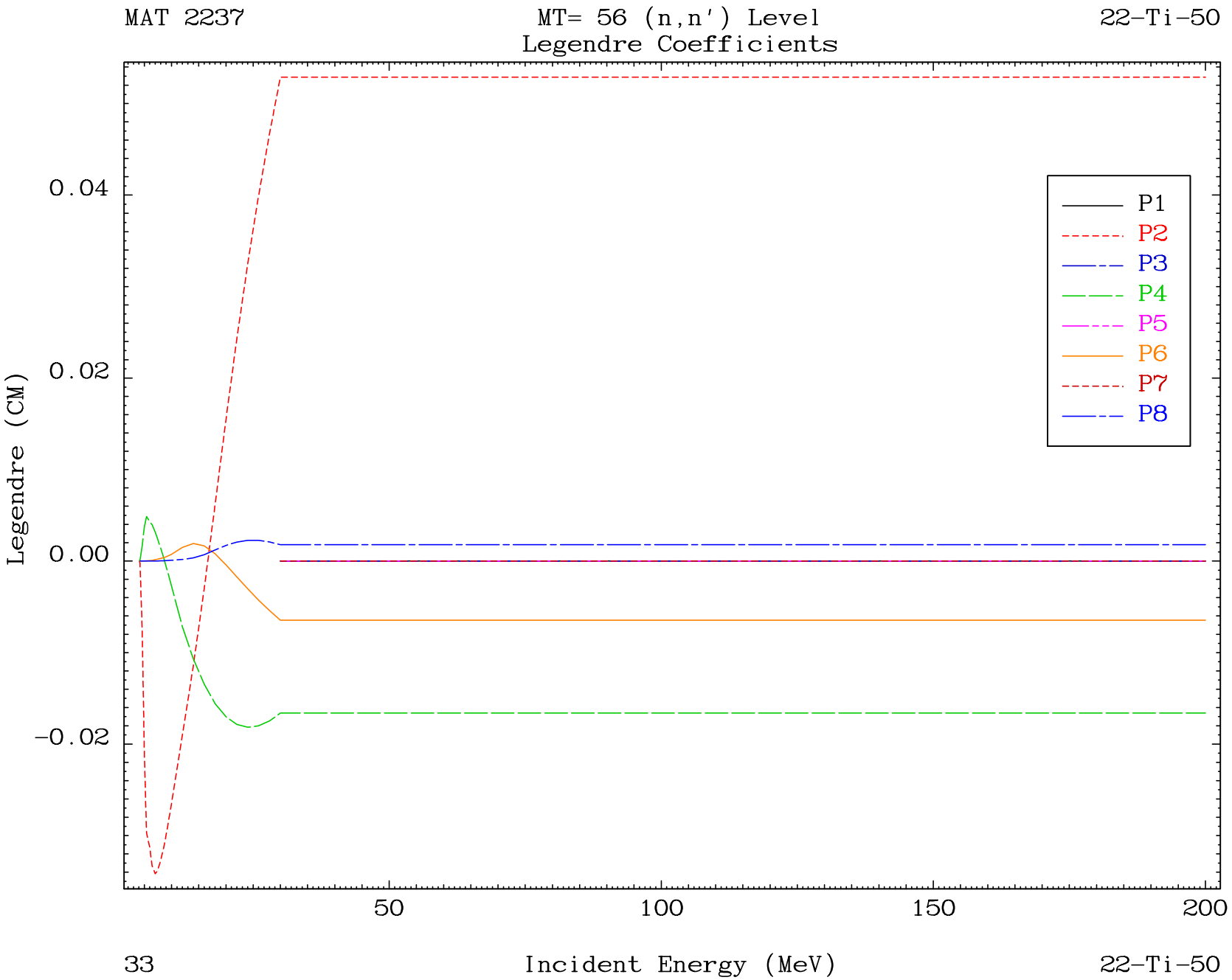

MAT 2237
MT= 54 (n,n') Level
Legendre Coefficients
22-Ti-50
P12
P13
P14
P15
P16
P17
P18
P19
P20
P21
P22
0.020
0.015
0.010
0.005
0.000
Legendre (CM)
50
100
150
200
28
Incident Energy (MeV)
22-Ti-50

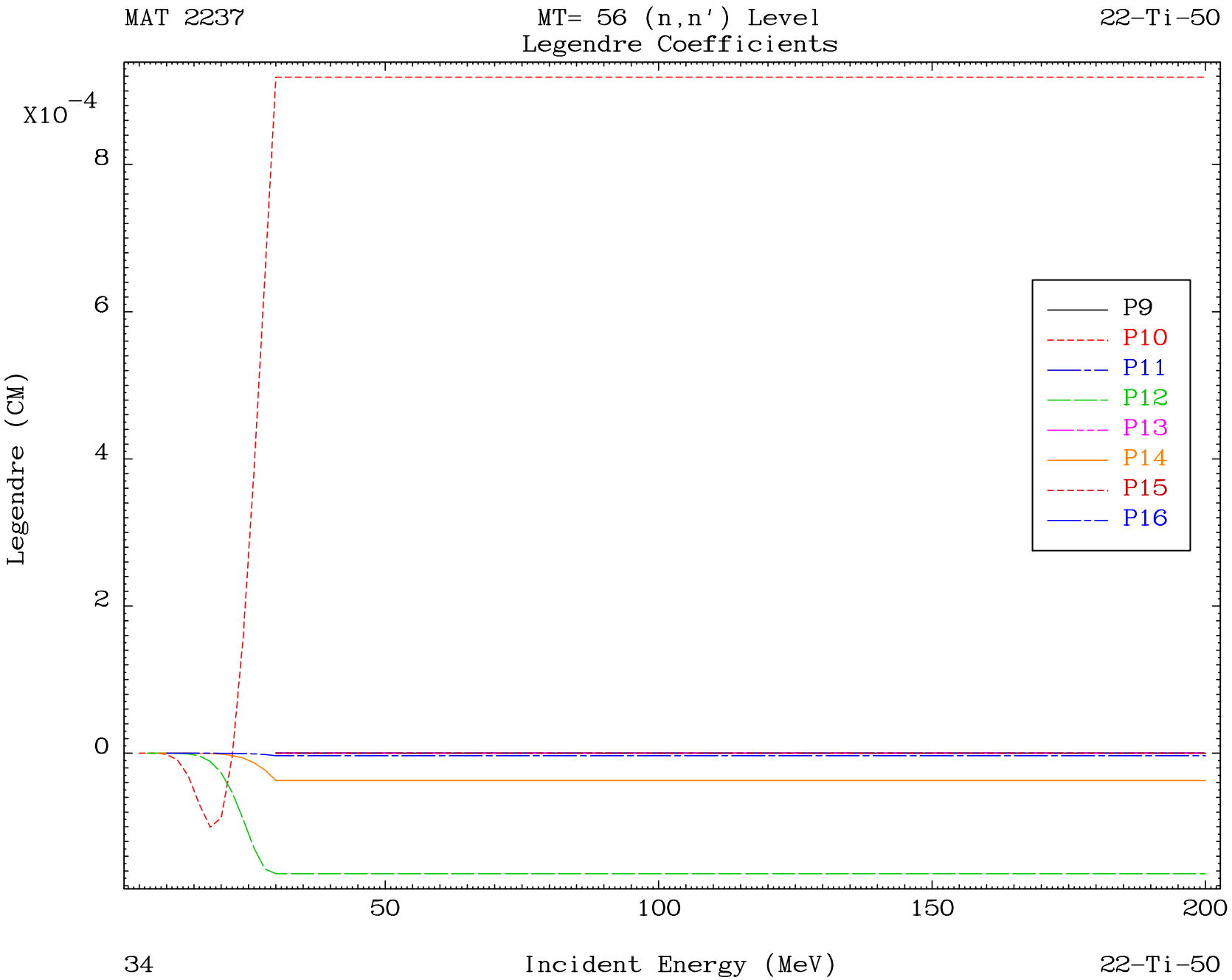

MAT 2237
MT= 54 (n,n') Level
Legendre Coefficients
22-Ti-50
X10^-6
4
3
2
1
0
Legendre (CM)
P23
P24
P25
P26
P27
P28
P29
P30
P31
P32
50
100
150
200
29
Incident Energy (MeV)
22-Ti-50

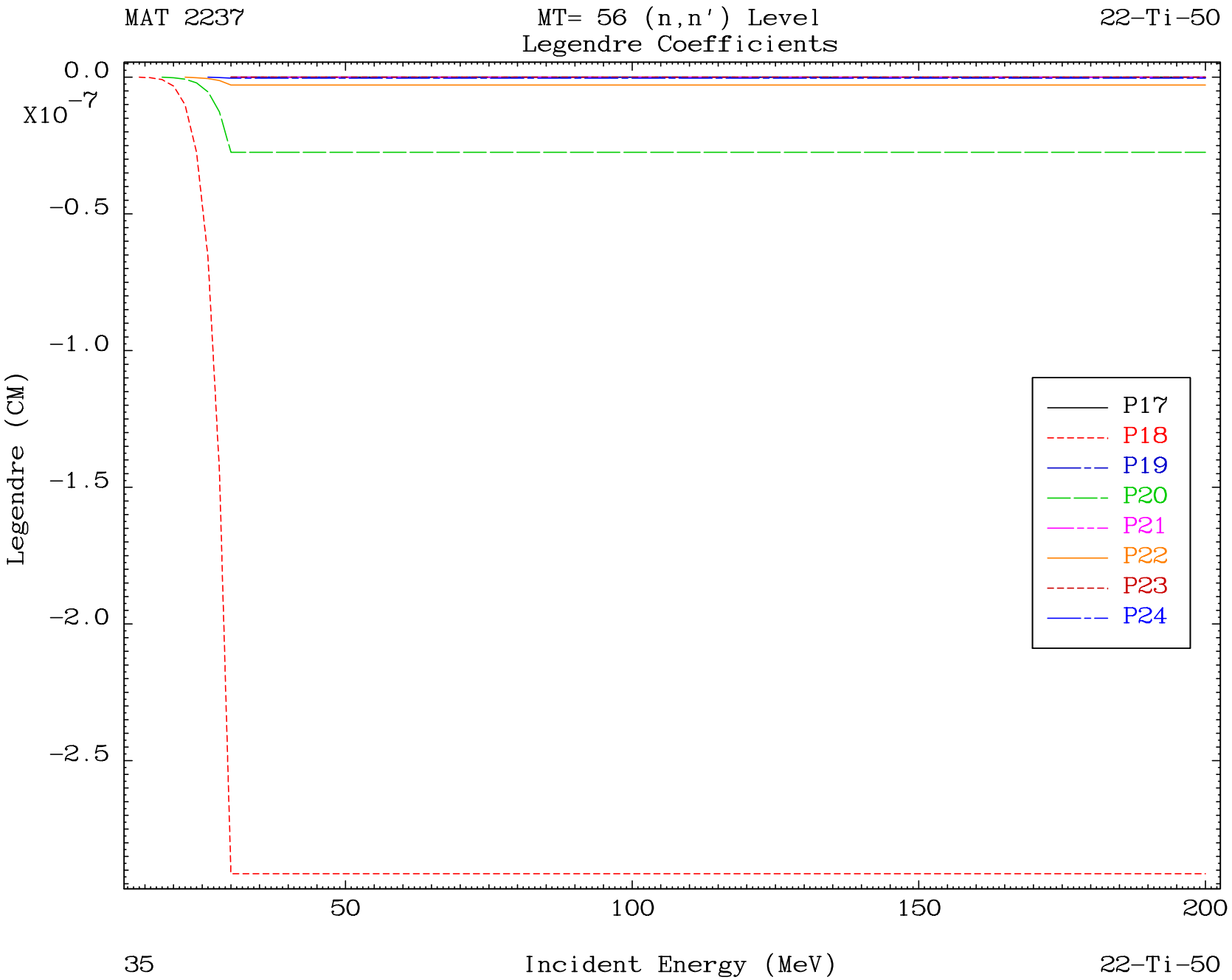

MAT 2237
MT= 55 (n,n') Level
Legendre Coefficients
22-Ti-50
0.20
0.15
0.10
0.05
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
50
100
150
200
30
Incident Energy (MeV)
22-Ti-50

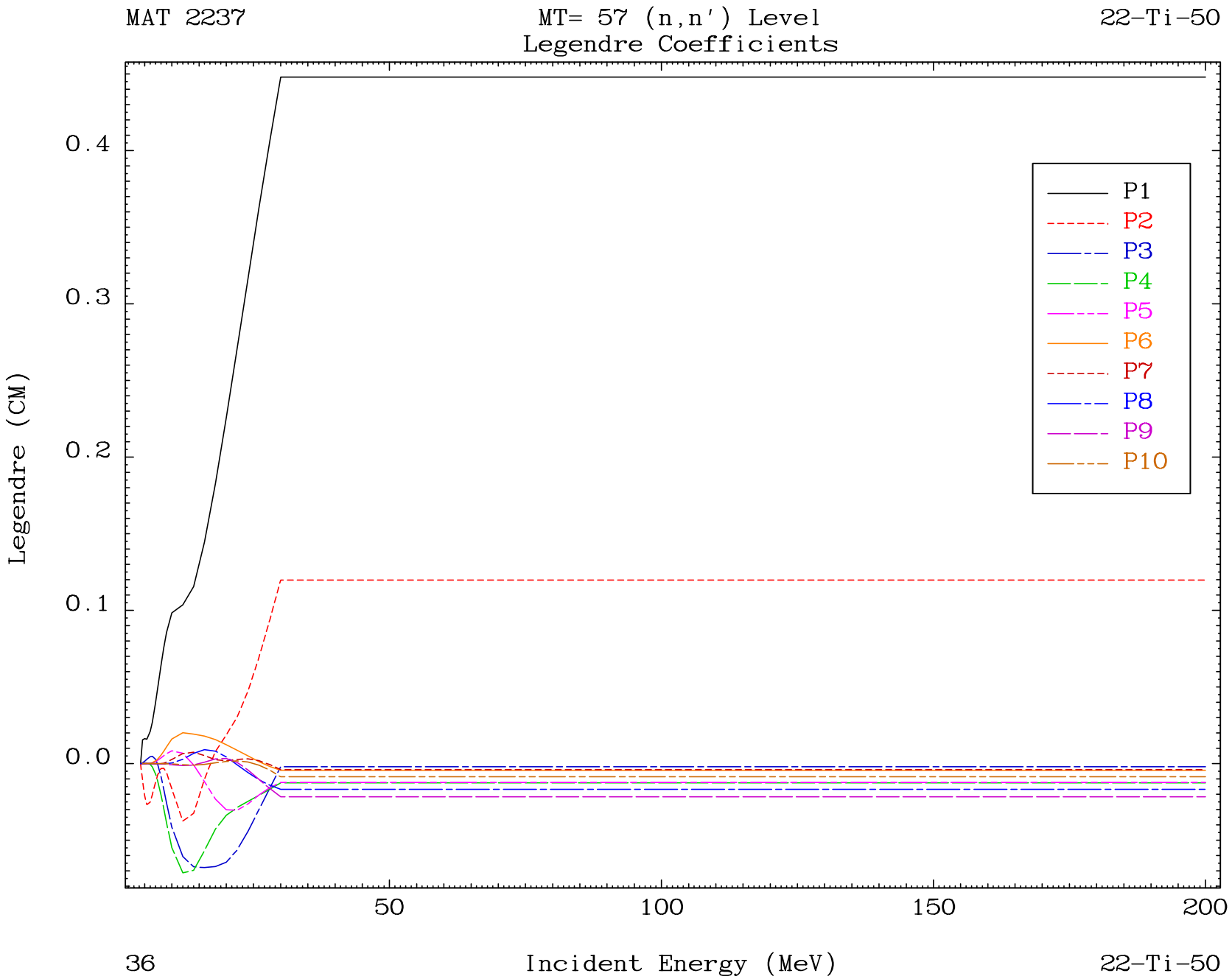

MAT 2237
MT= 55 (n,n') Level
Legendre Coefficients
22-Ti-50
0.006
0.004
0.002
0.000
Legendre (CM)
50
100
150
200
Incident Energy (MeV)
31
22-Ti-50
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20

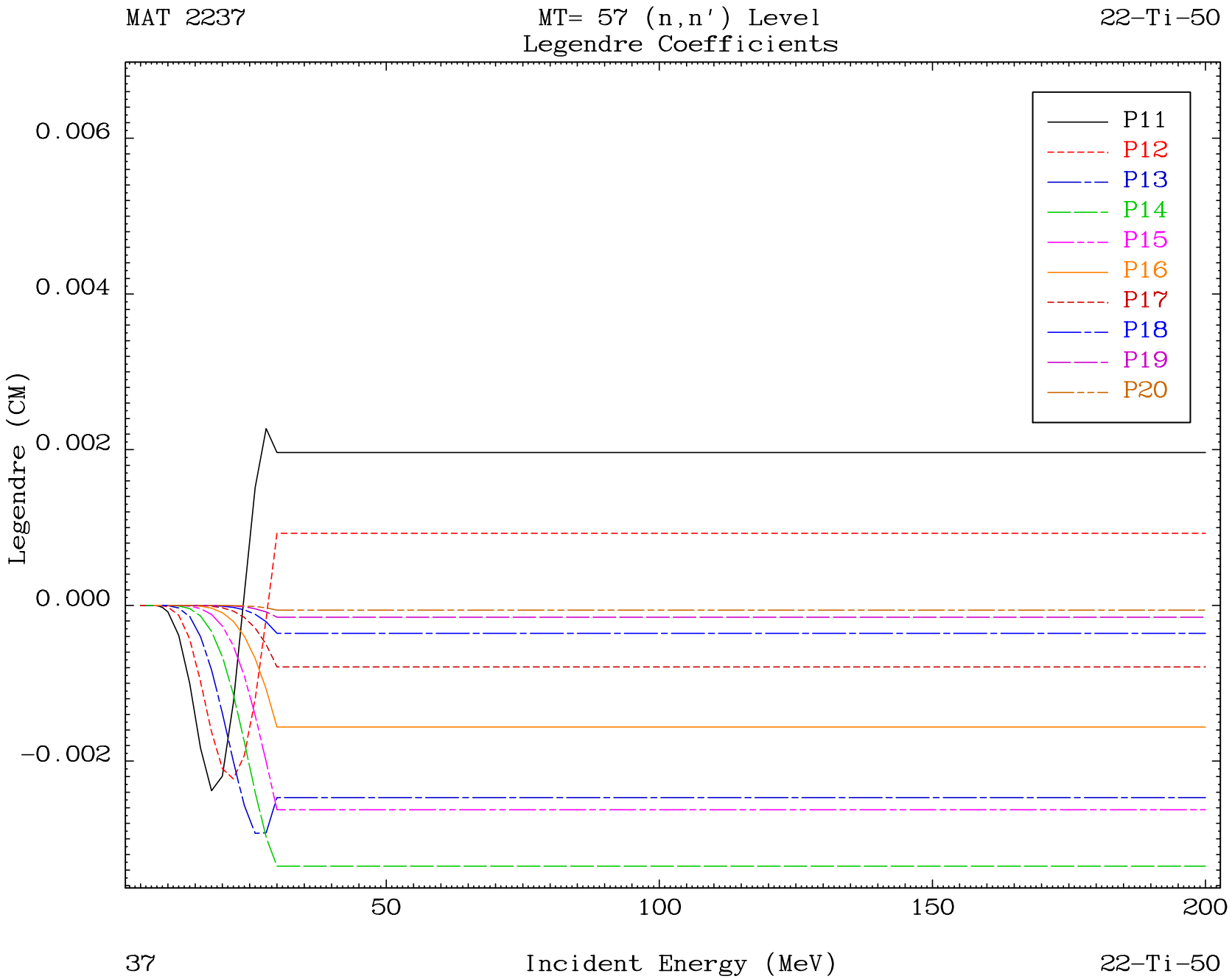

MAT 2237
MT= 55 (n,n') Level
Legendre Coefficients
22-Ti-50
X10-8
4
3
2
1
0
Legendre (CM)
50
100
150
200
32
Incident Energy (MeV)
22-Ti-50
P21
P22
P23
P24
P25
P26
P27
P28

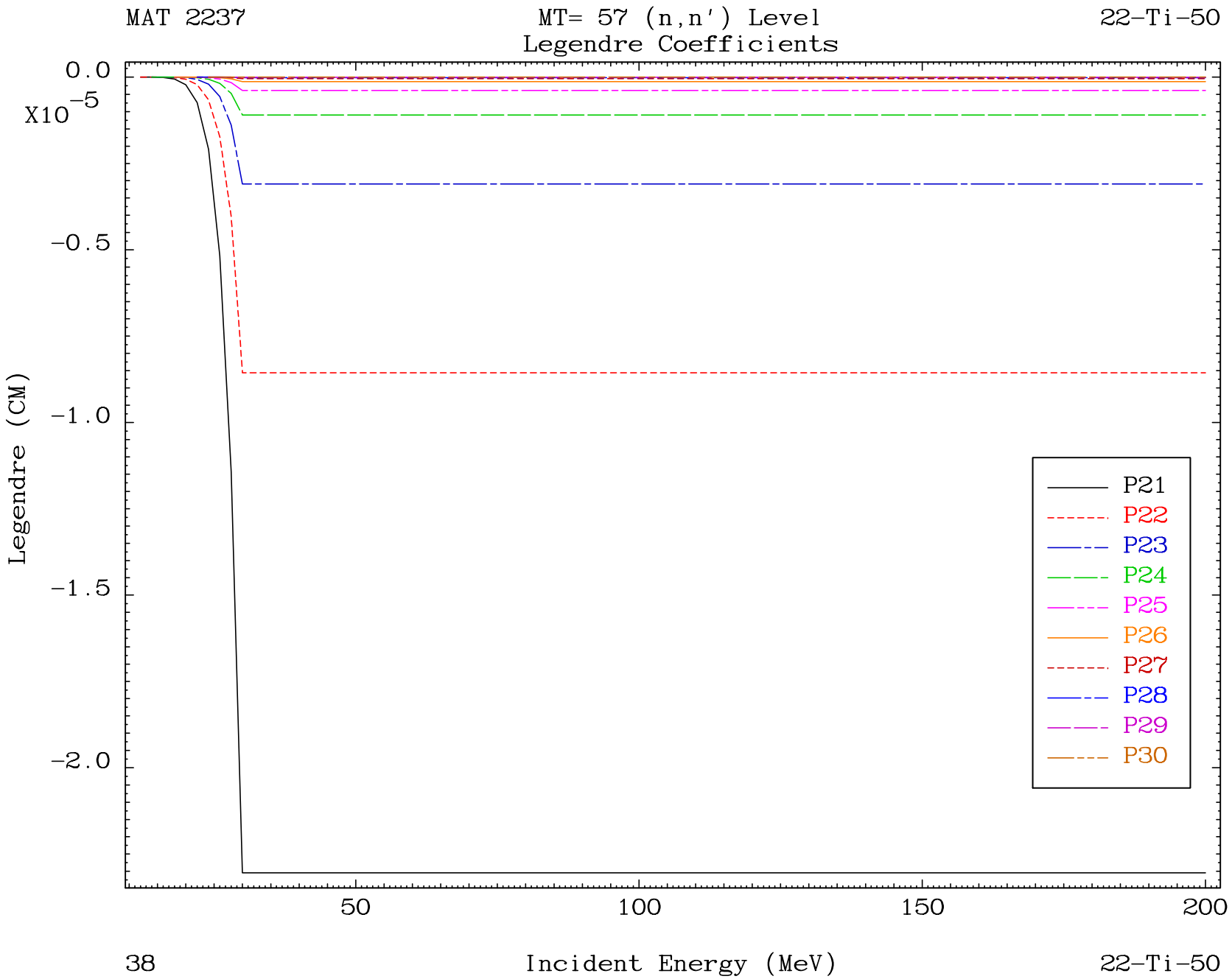

MAT 2237
MT= 56 (n,n') Level
Legendre Coefficients
22-Ti-50
0.04
0.02
0.00
-0.02
Legendre (CM)
50
100
150
200
Incident Energy (MeV)
P1
P2
P3
P4
P5
P6
P7
P8
33
22-Ti-50

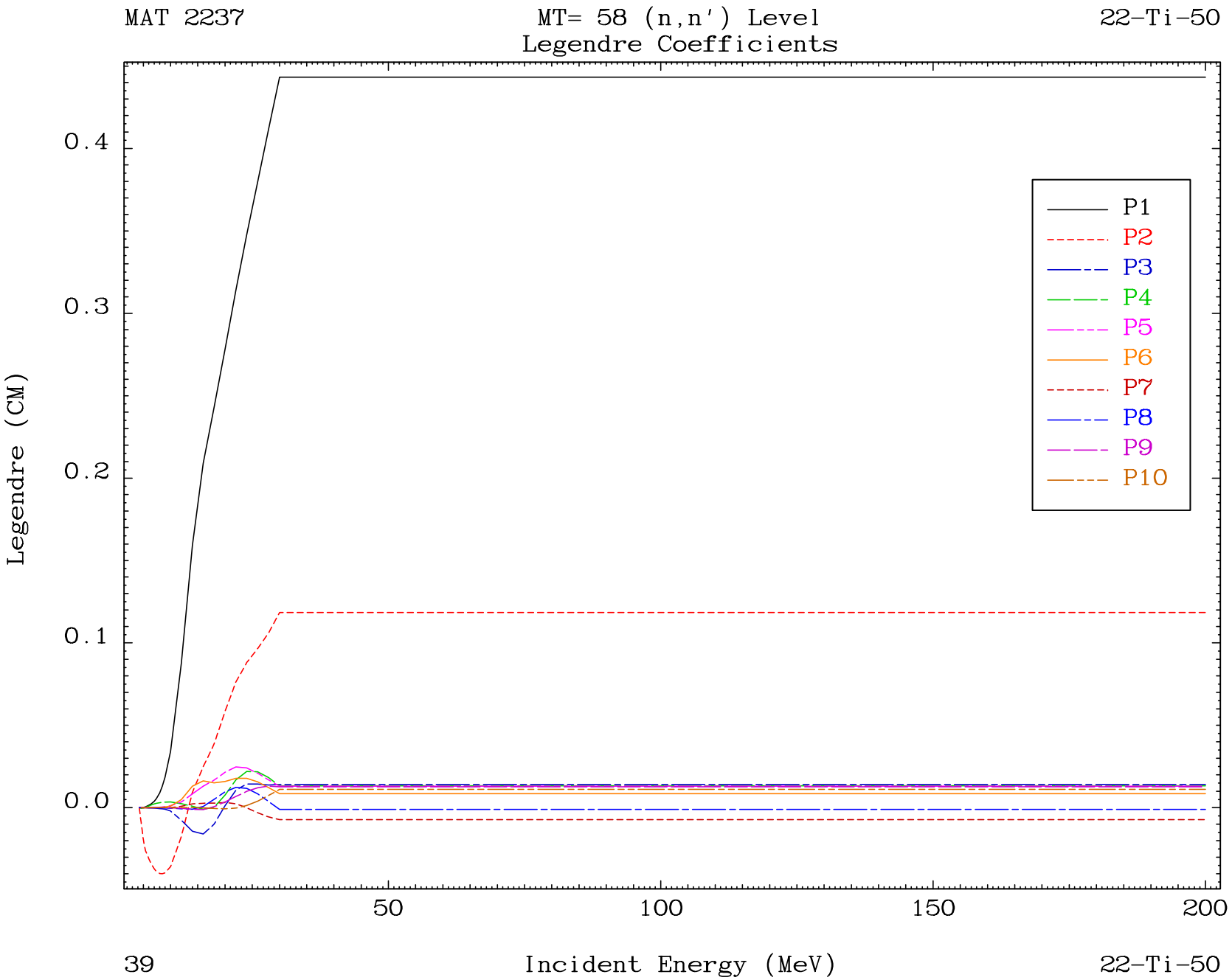

MAT 2237
MT= 56 (n,n') Level
Legendre Coefficients
22-Ti-50
X10^-4
8
6
4
2
0
Legendre (CM)
P9
P10
P11
P12
P13
P14
P15
P16
50
100
150
200
34
Incident Energy (MeV)
22-Ti-50

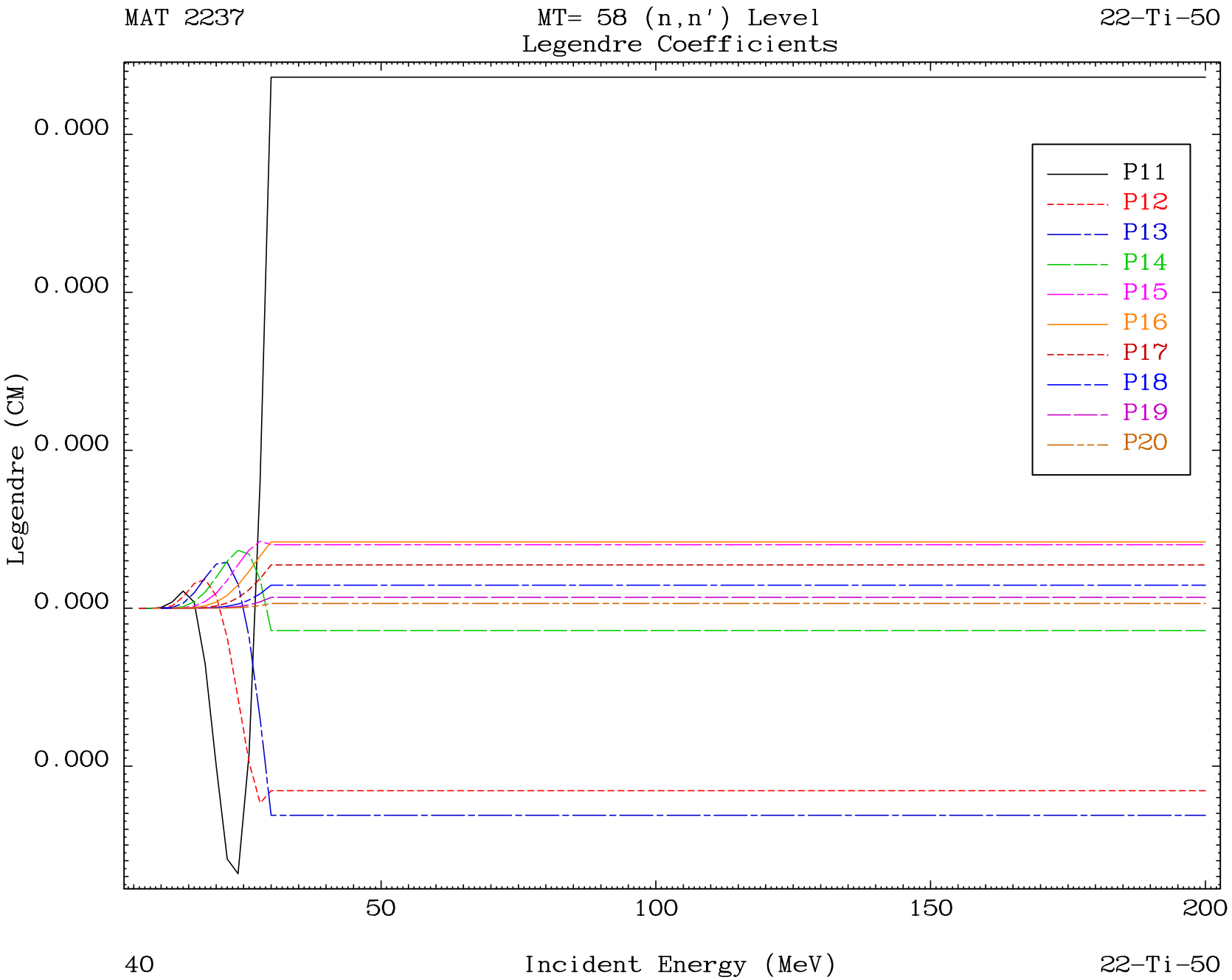

MAT 2237
MT= 56 (n,n') Level
Legendre Coefficients
22-Ti-50
0.0
X10^-7
-0.5
-1.0
-1.5
-2.0
-2.5
Legendre (CM)
50
100
150
200
35
Incident Energy (MeV)
22-Ti-50
P17
P18
P19
P20
P21
P22
P23
P24

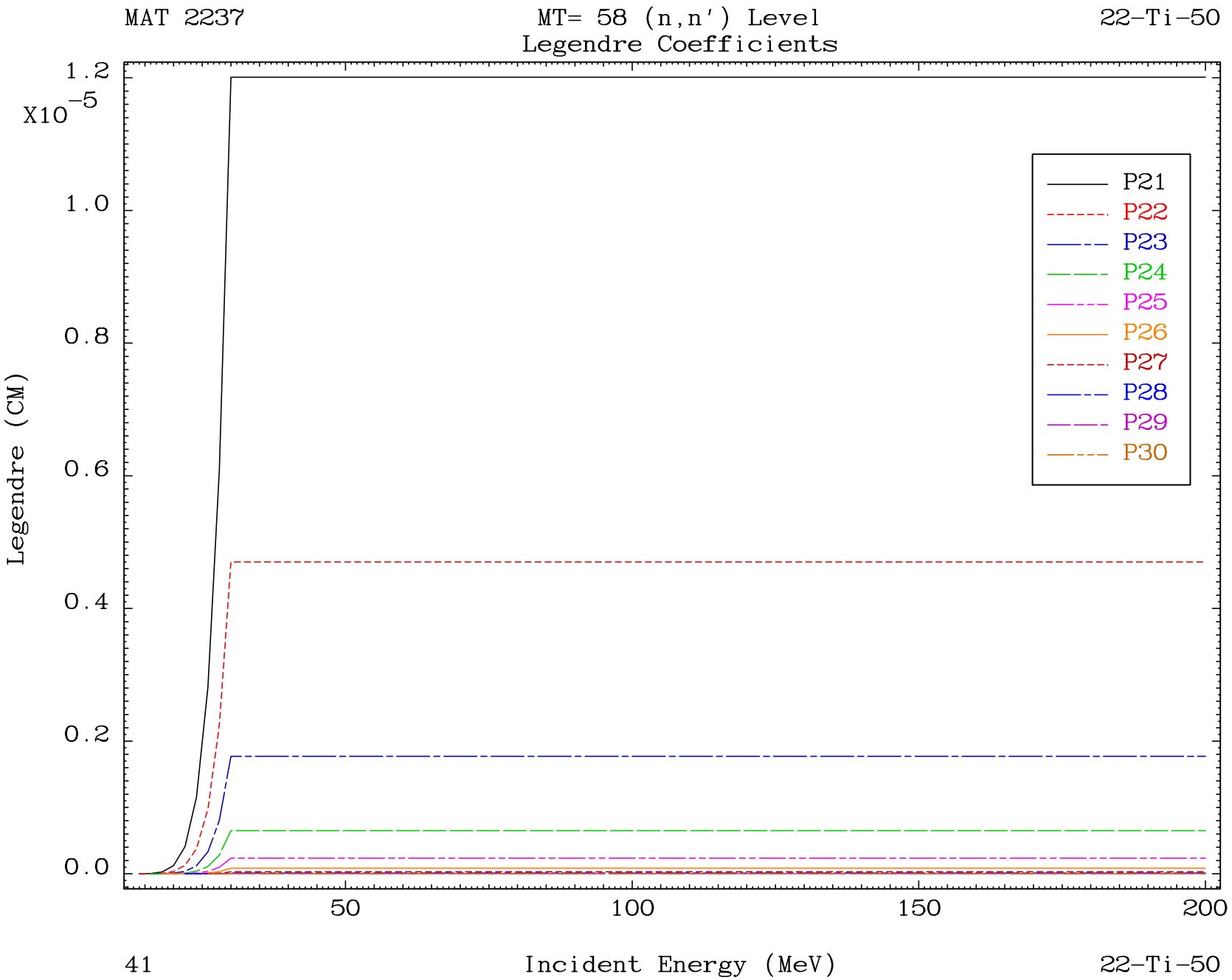

MAT 2237
MT= 57 (n,n') Level
Legendre Coefficients
22-Ti-50
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
36
Incident Energy (MeV)
22-Ti-50

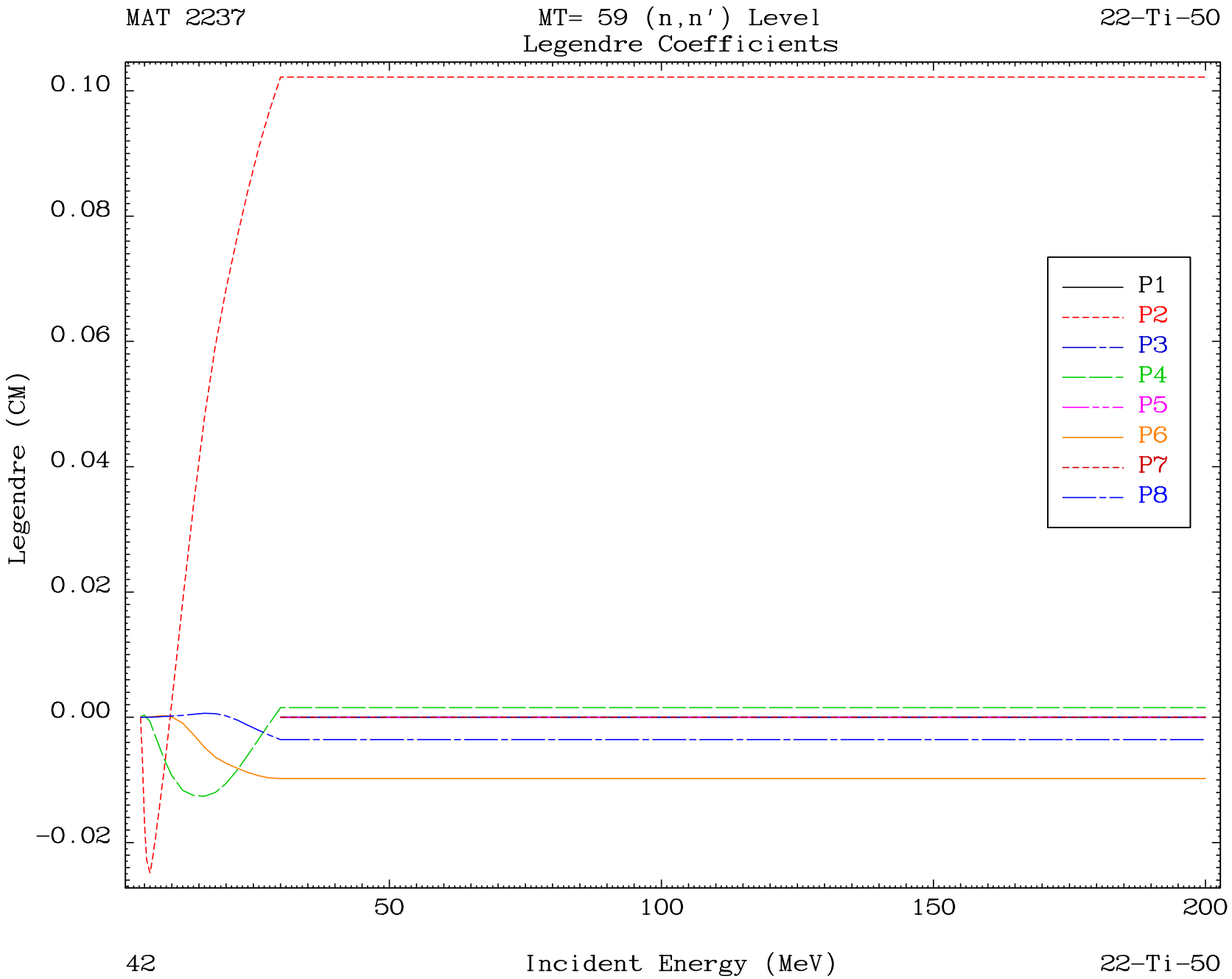

MAT 2237
MT= 57 (n,n') Level
Legendre Coefficients
22-Ti-50
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.006
0.004
0.002
0.000
-0.002
Legendre (CM)
50
100
150
200
37
Incident Energy (MeV)
22-Ti-50

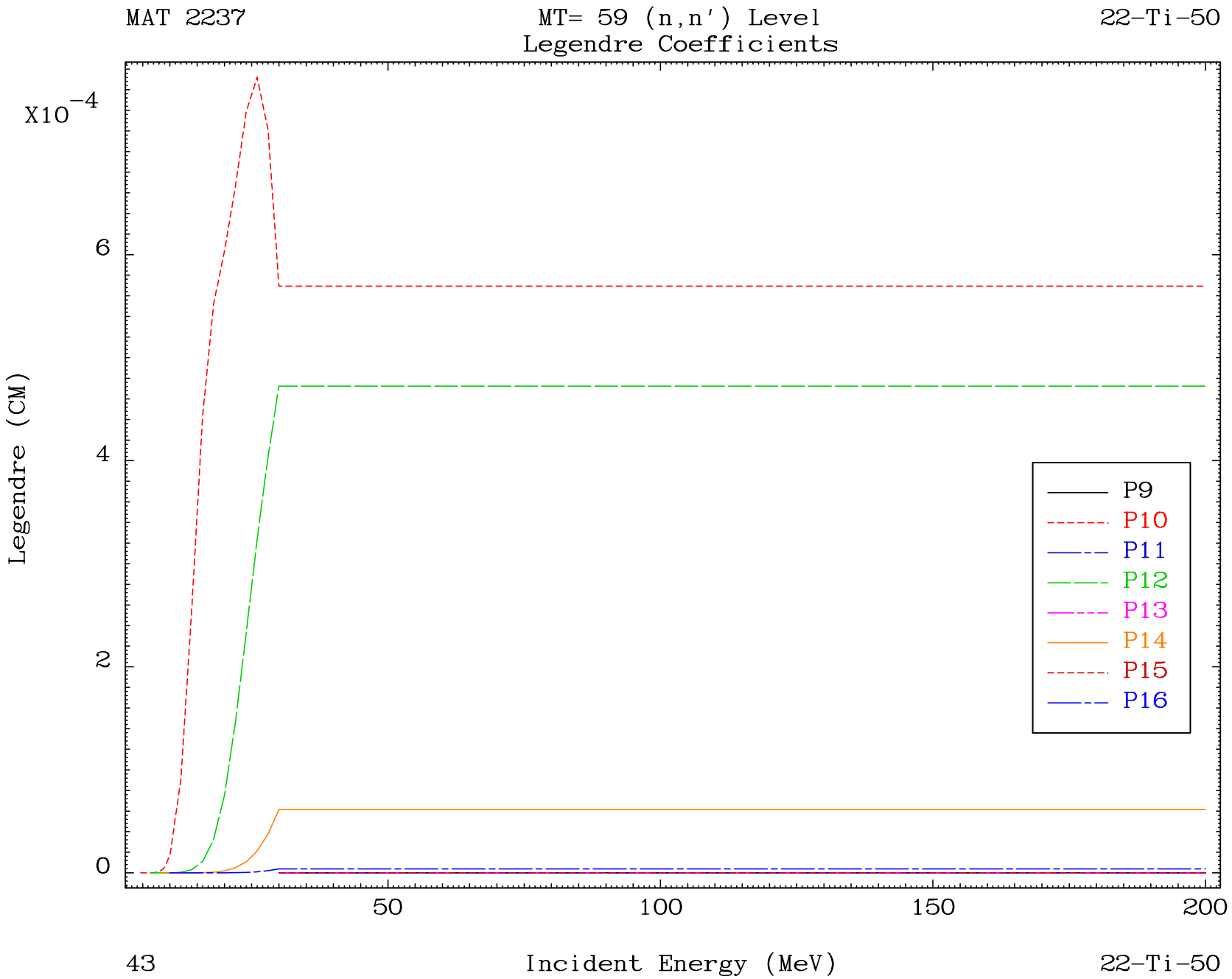

MAT 2237
MT= 57 (n,n') Level
Legendre Coefficients
22-Ti-50
0.0
X10^-5
-0.5
-1.0
-1.5
-2.0
Legendre (CM)
50
100
150
200
38
Incident Energy (MeV)
22-Ti-50
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30

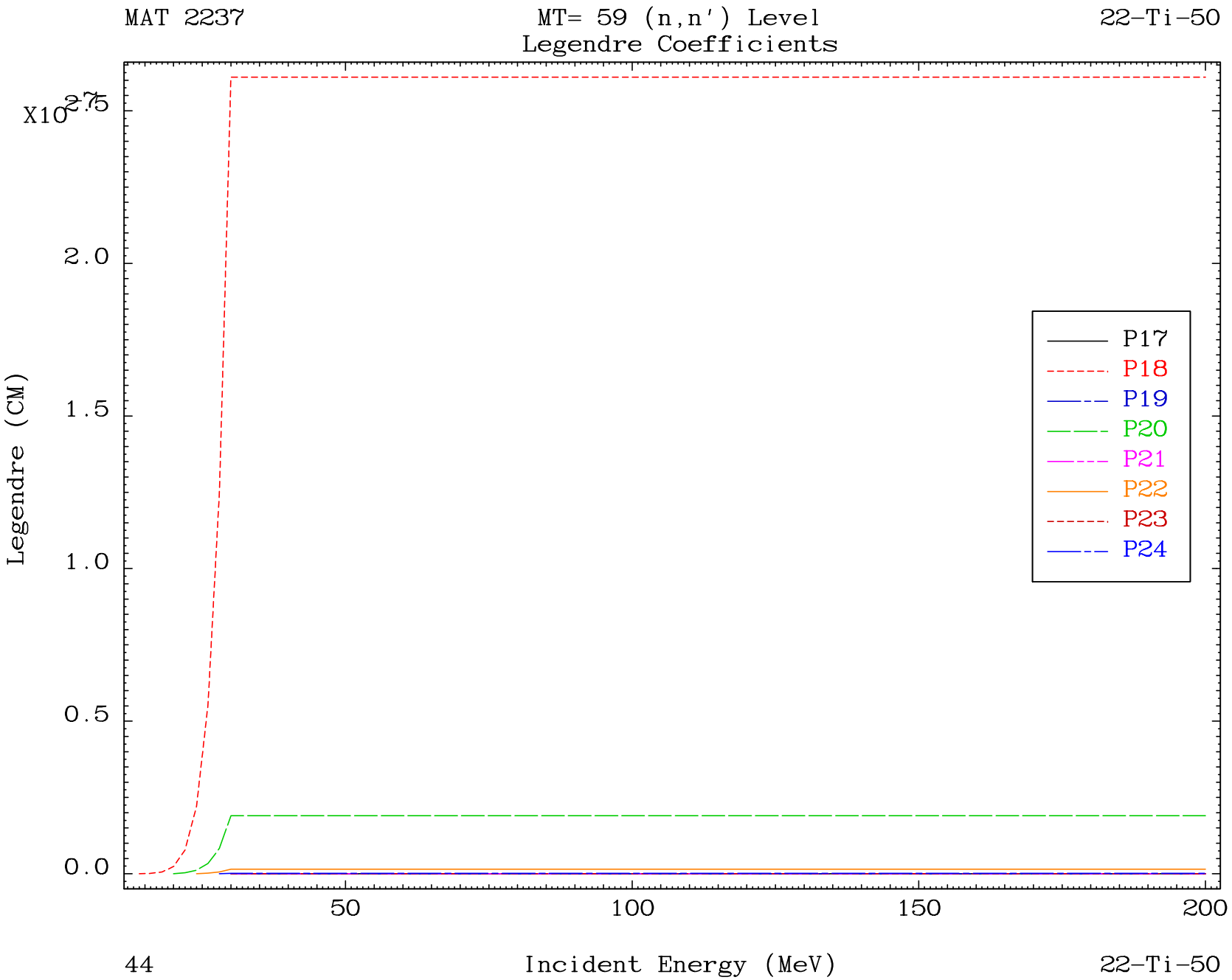

MAT 2237
MT= 58 (n,n') Level
Legendre Coefficients
22-Ti-50
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
39
Incident Energy (MeV)
22-Ti-50

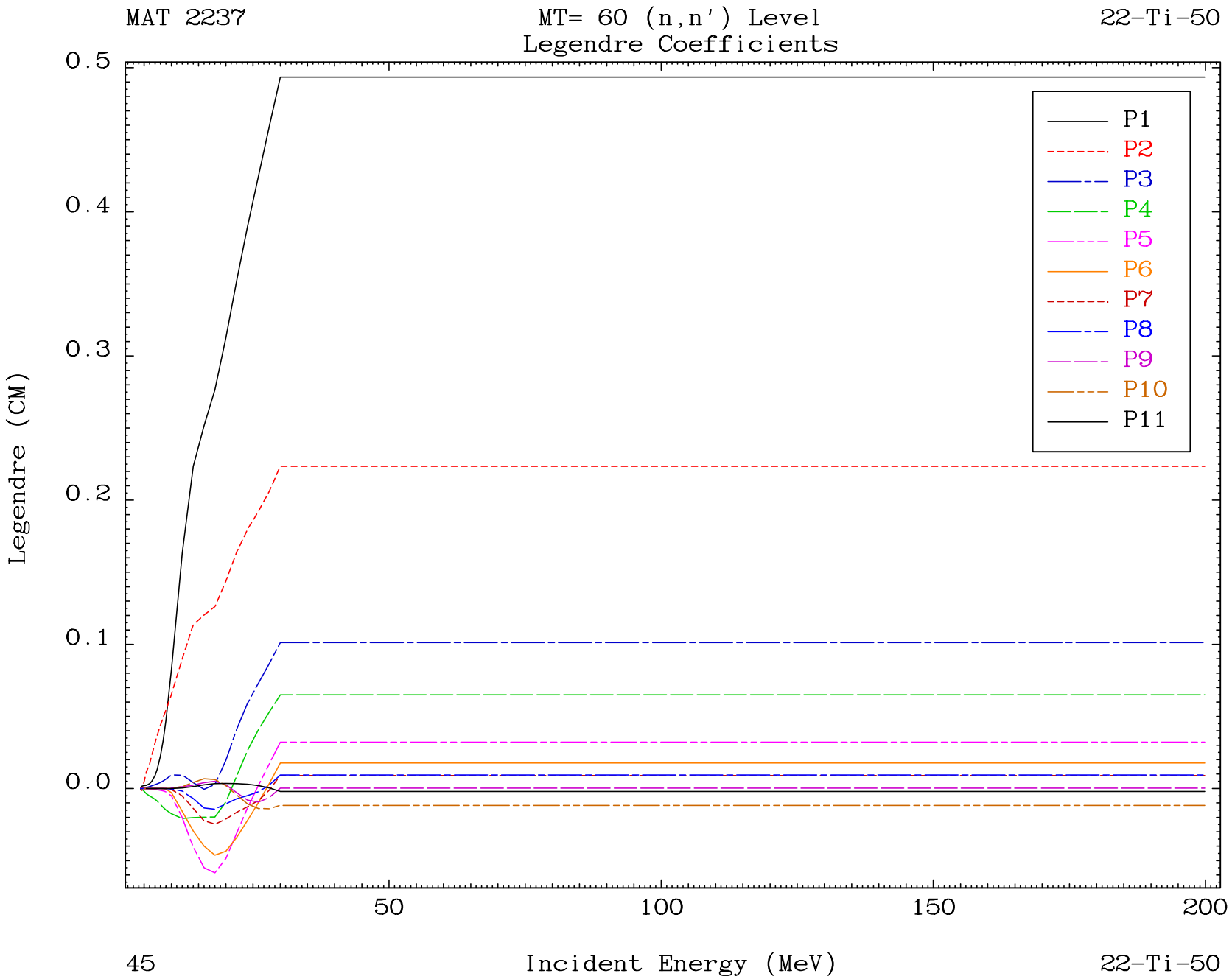

MAT 2237
MT= 58 (n,n') Level
Legendre Coefficients
22-Ti-50
0.000
0.000
0.000
0.000
Legendre (CM)
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
50
100
150
200
40
Incident Energy (MeV)
22-Ti-50

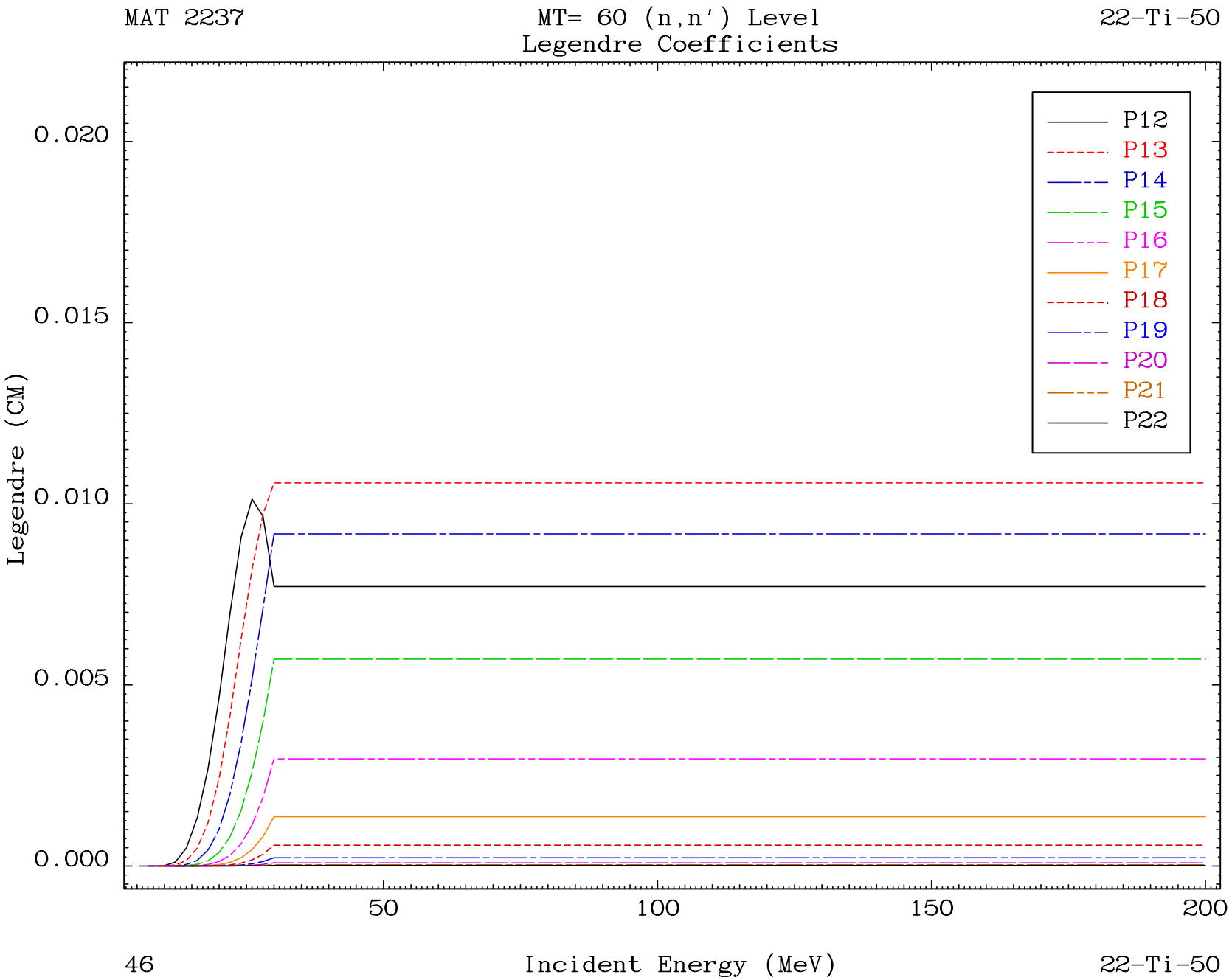

MAT 2237
MT= 58 (n,n') Level
Legendre Coefficients
22-Ti-50
X10 -5
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
50
100
150
200
41
Incident Energy (MeV)
22-Ti-50

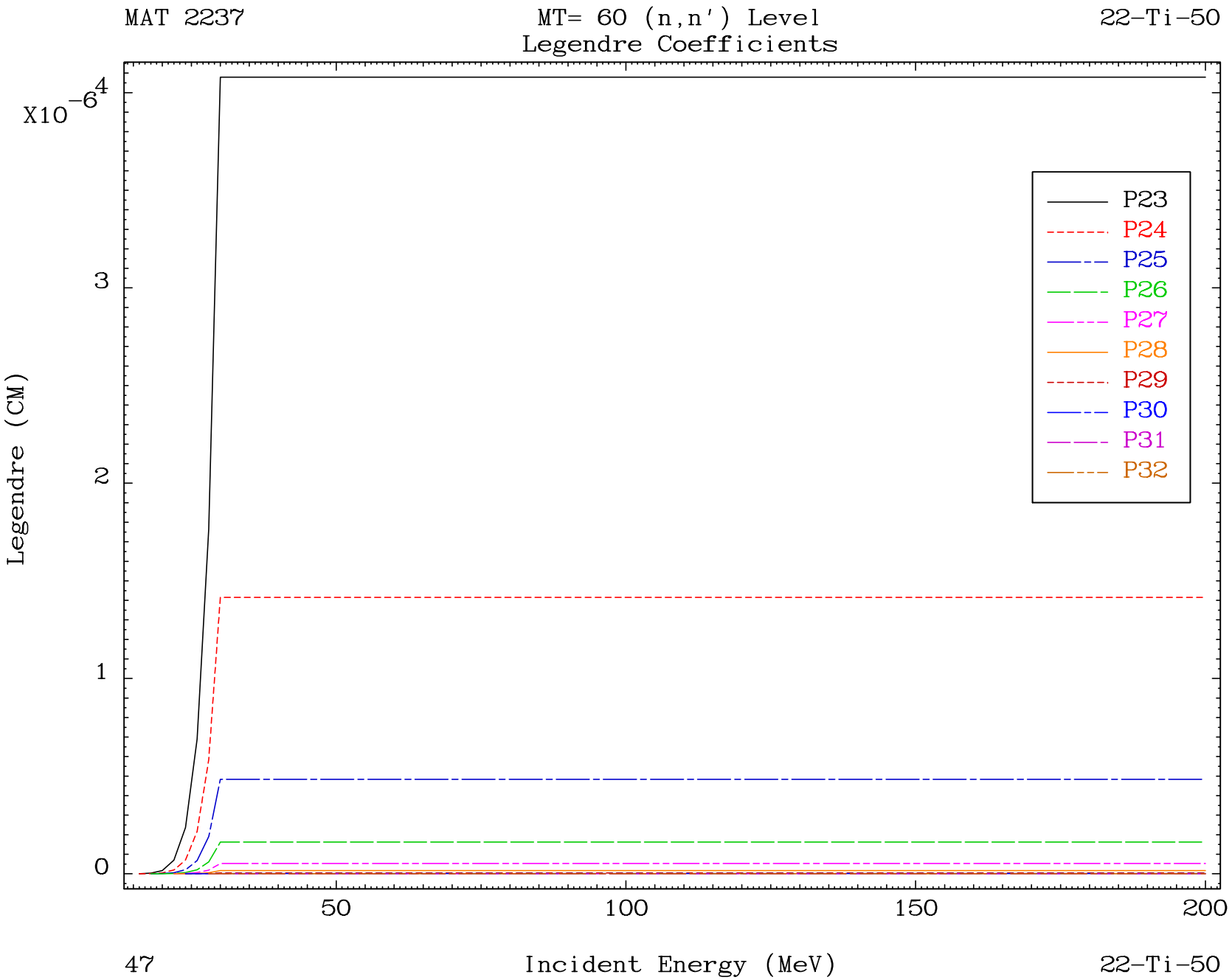

MAT 2237
MT= 59 (n,n') Level
Legendre Coefficients
22-Ti-50
0.10
0.08
0.06
0.04
0.02
0.00
-0.02
Legendre (CM)
50
100
150
200
42
Incident Energy (MeV)
22-Ti-50
P1
P2
P3
P4
P5
P6
P7
P8

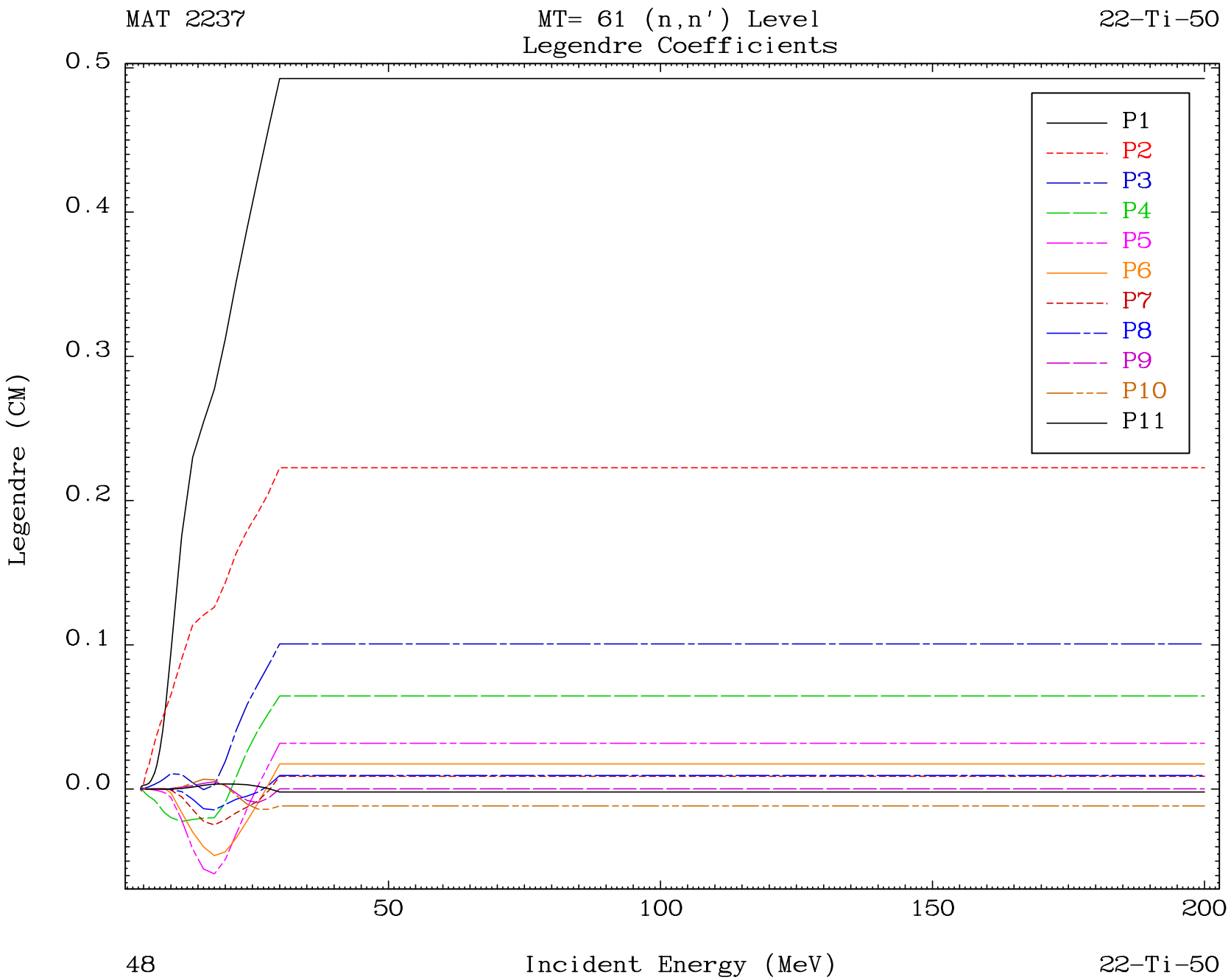

MAT 2237
MT= 59 (n,n') Level
Legendre Coefficients
22-Ti-50
X10^-4
6
4
2
0
Legendre (CM)
50
100
150
200
P9
P10
P11
P12
P13
P14
P15
P16
43
Incident Energy (MeV)
22-Ti-50

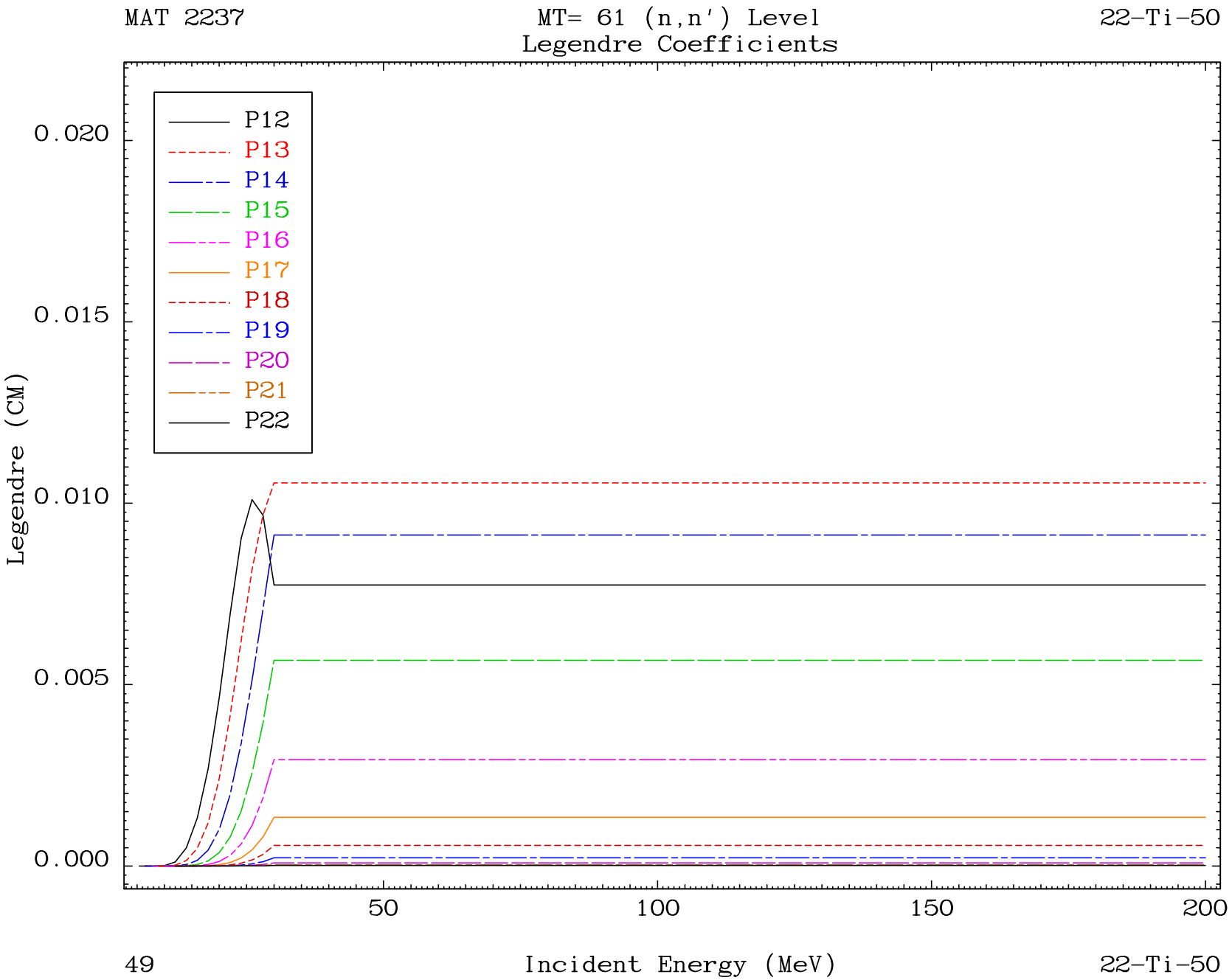

MAT 2237
MT= 59 (n,n') Level
Legendre Coefficients
22-Ti-50
X10-27
2.5
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
50
100
150
200
Incident Energy (MeV)
44
22-Ti-50
P17
P18
P19
P20
P21
P22
P23
P24

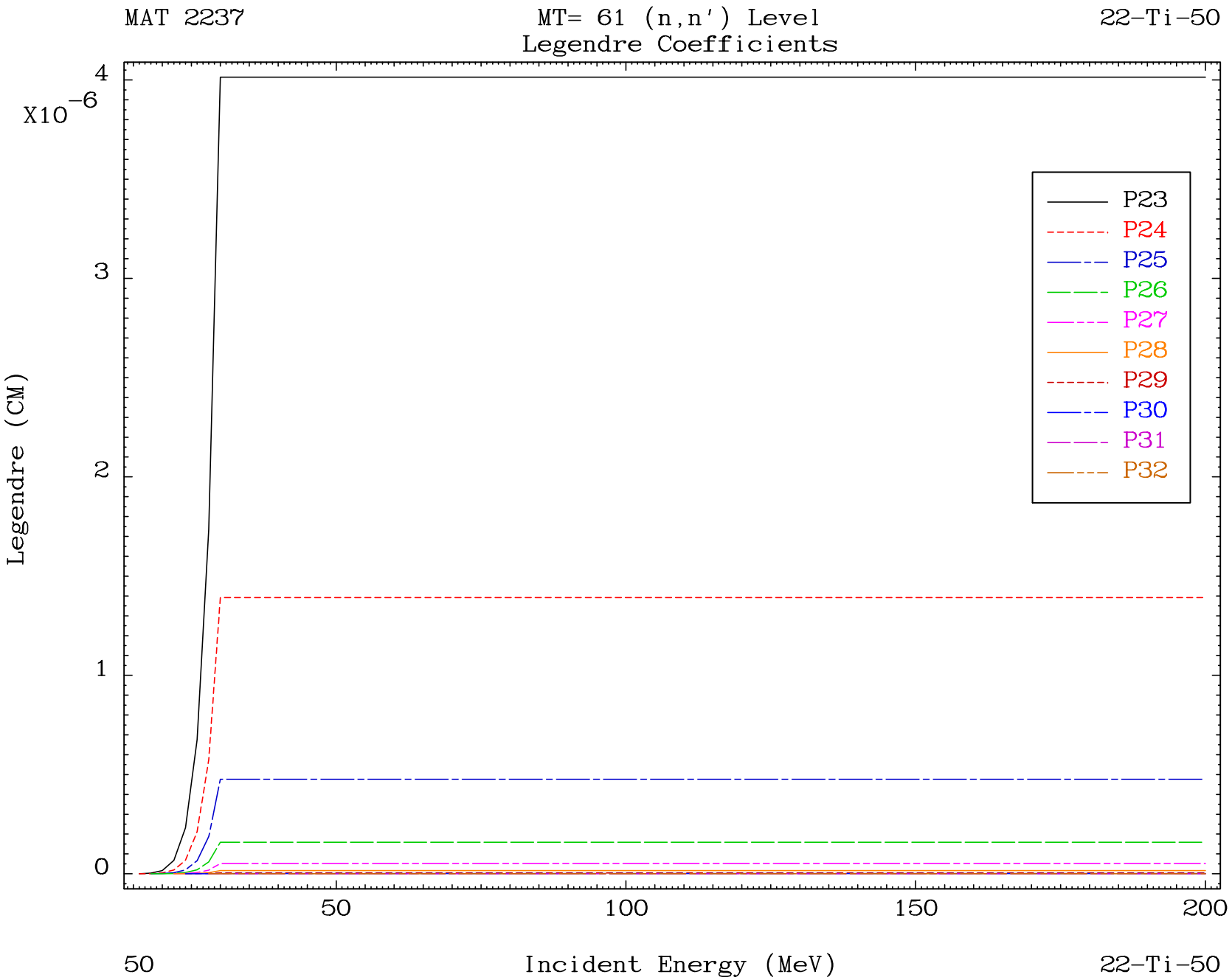

MAT 2237
MT= 60 (n,n') Level
Legendre Coefficients
22-Ti-50
0.5
0.4
0.3
0.2
0.1
0.0
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11
50
100
150
200
45
Incident Energy (MeV)
22-Ti-50

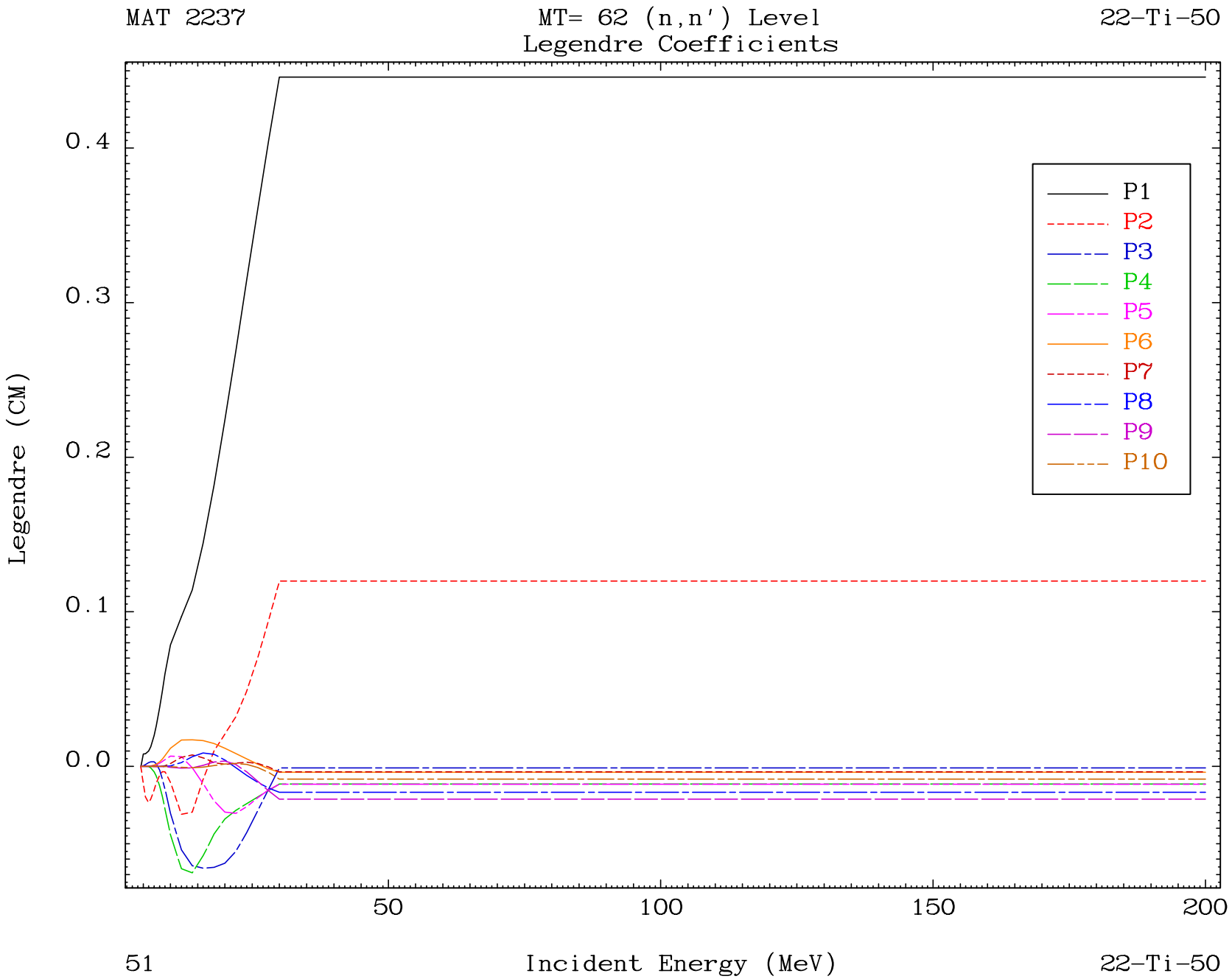

MAT 2237
MT= 60 (n,n') Level
Legendre Coefficients
22-Ti-50
P12
P13
P14
P15
P16
P17
P18
P19
P20
P21
P22
0.020
0.015
0.010
0.005
0.000
Legendre (CM)
50
100
150
200
46
Incident Energy (MeV)
22-Ti-50

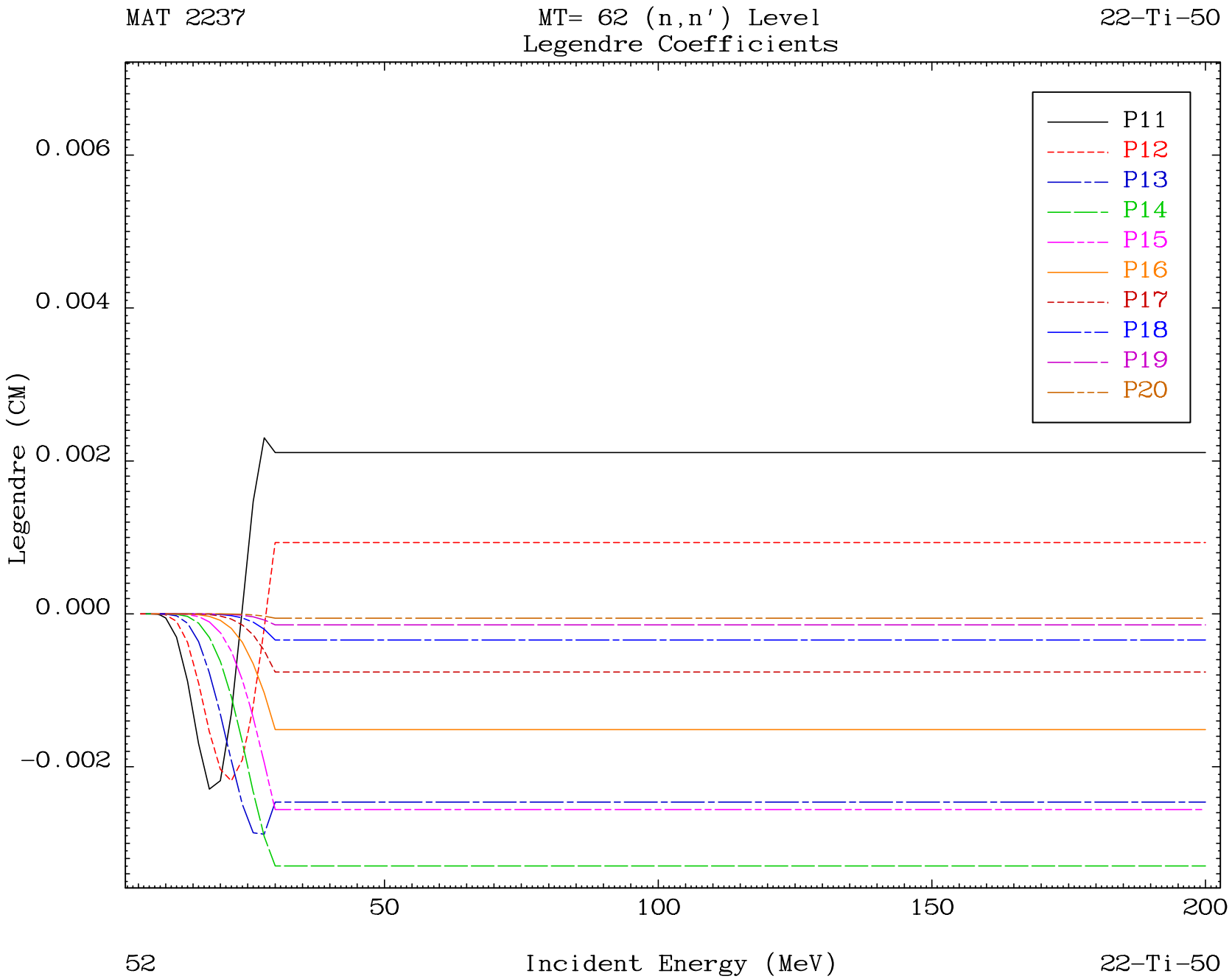

MAT 2237
MT= 60 (n,n') Level
Legendre Coefficients
22-Ti-50
X10^-6
4
3
2
1
0
Legendre (CM)
P23
P24
P25
P26
P27
P28
P29
P30
P31
P32
50
100
150
200
47
Incident Energy (MeV)
22-Ti-50

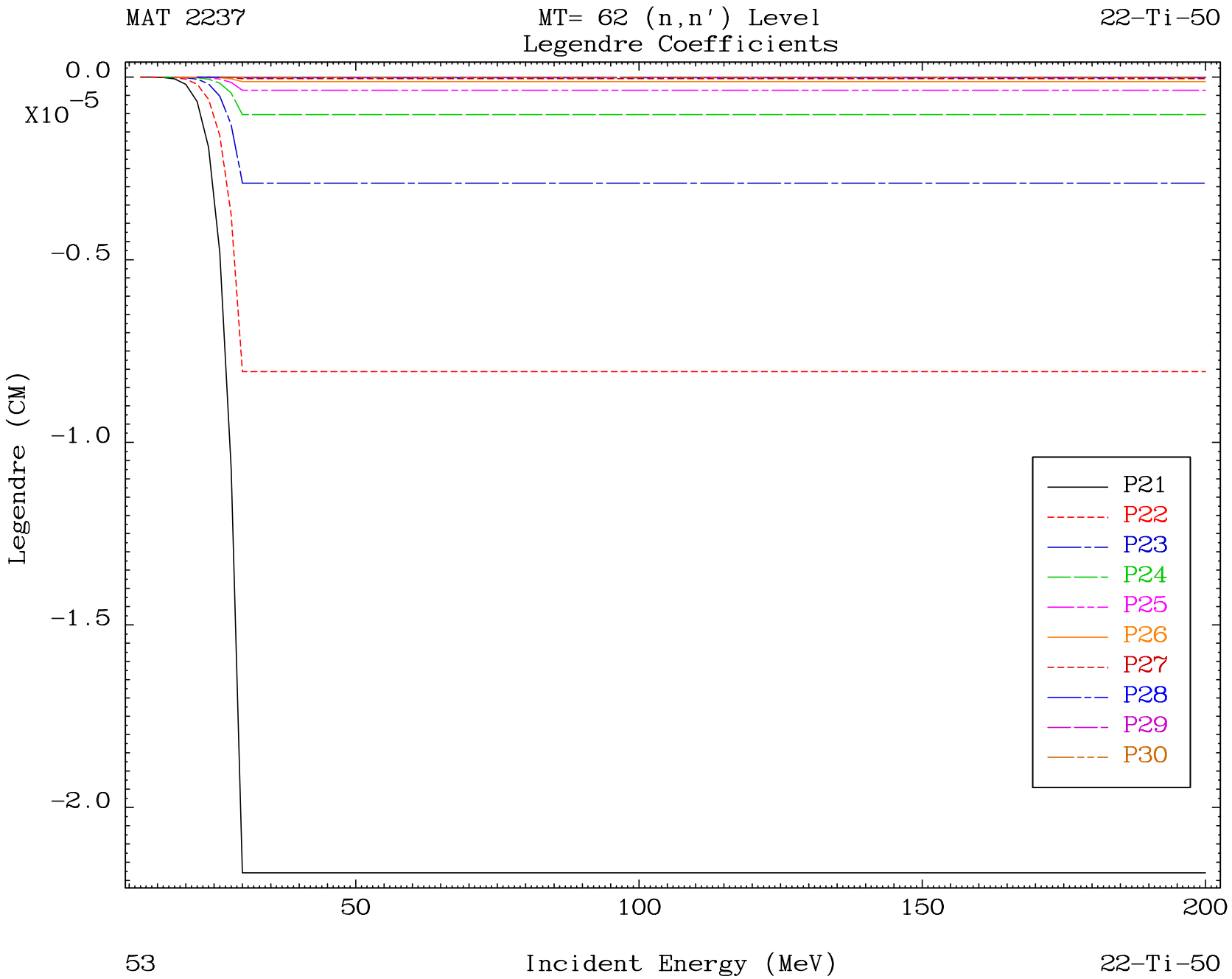

MAT 2237
MT= 61 (n,n') Level
Legendre Coefficients
22-Ti-50
0.5
0.4
0.3
0.2
0.1
0.0
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11
50
100
150
200
48
Incident Energy (MeV)
22-Ti-50

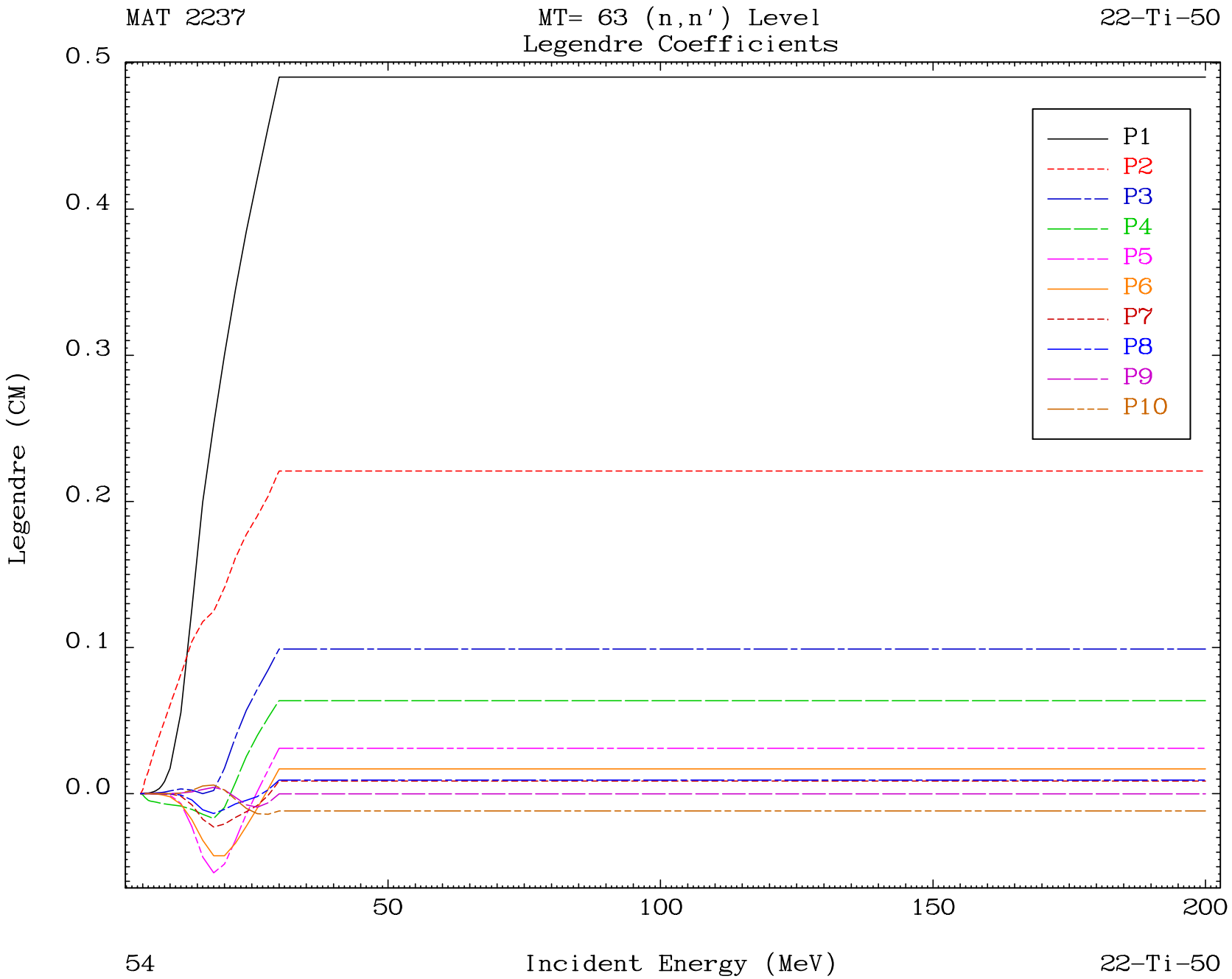

MAT 2237
MT= 61 (n,n') Level
Legendre Coefficients
22-Ti-50
P12
P13
P14
P15
P16
P17
P18
P19
P20
P21
P22
0.020
0.015
0.010
0.005
0.000
Legendre (CM)
50
100
150
200
49
Incident Energy (MeV)
22-Ti-50

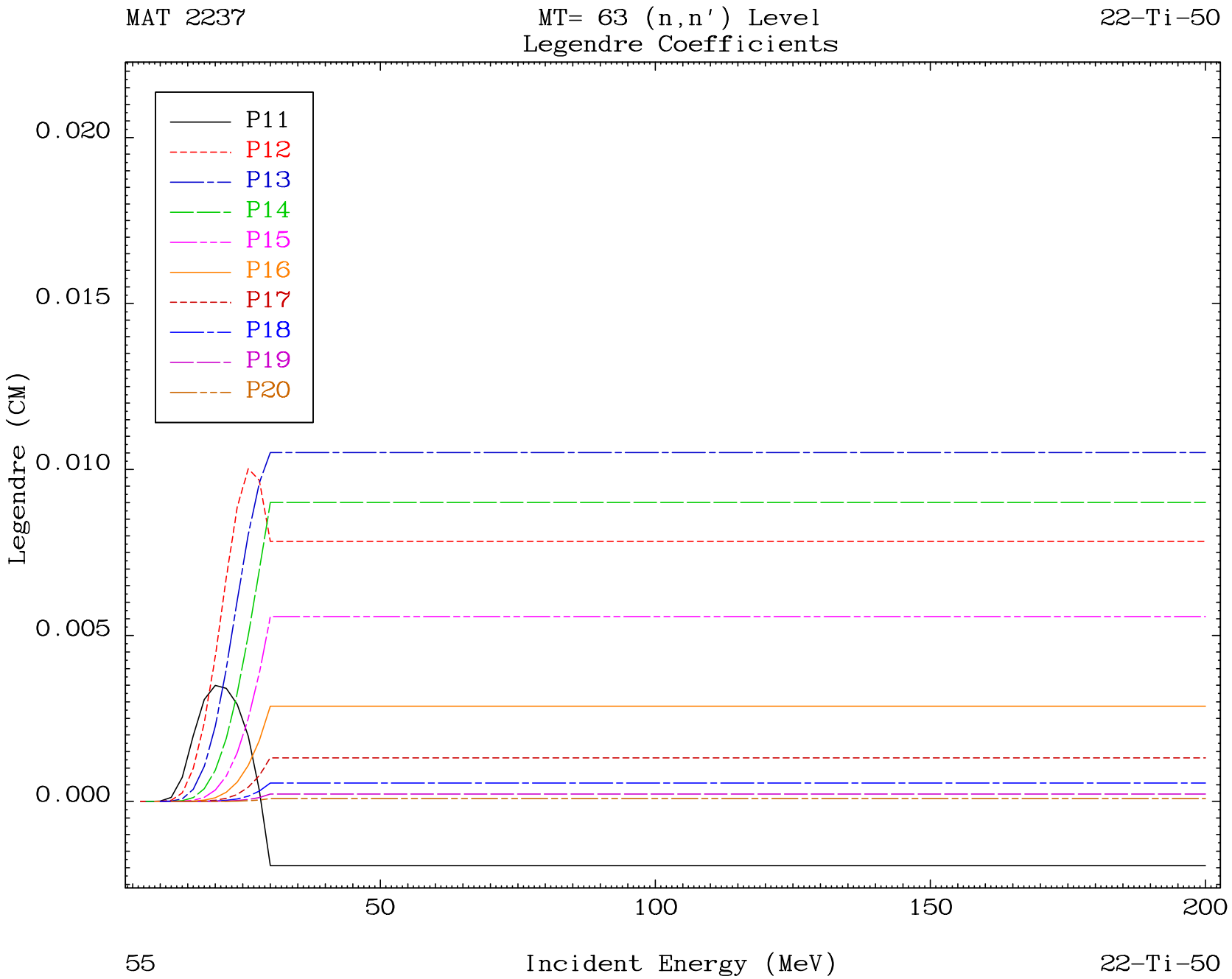

MAT 2237
MT= 61 (n,n') Level
Legendre Coefficients
22-Ti-50
X10 −6
4
3
2
1
0
Legendre (CM)
P23
P24
P25
P26
P27
P28
P29
P30
P31
P32
50
100
150
200
50
Incident Energy (MeV)
22-Ti-50

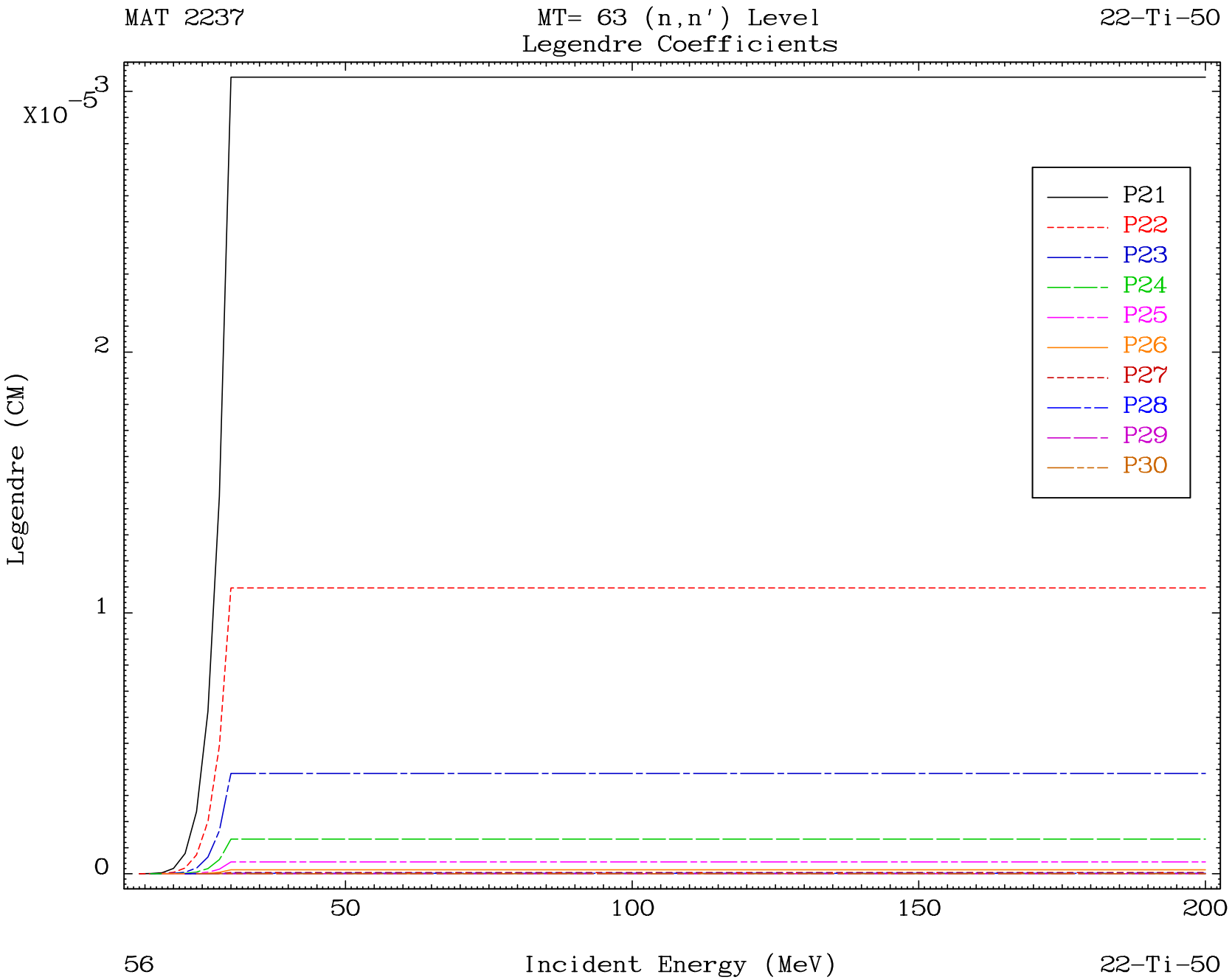

MAT 2237
MT= 62 (n,n') Level
Legendre Coefficients
22-Ti-50
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
51
Incident Energy (MeV)
22-Ti-50

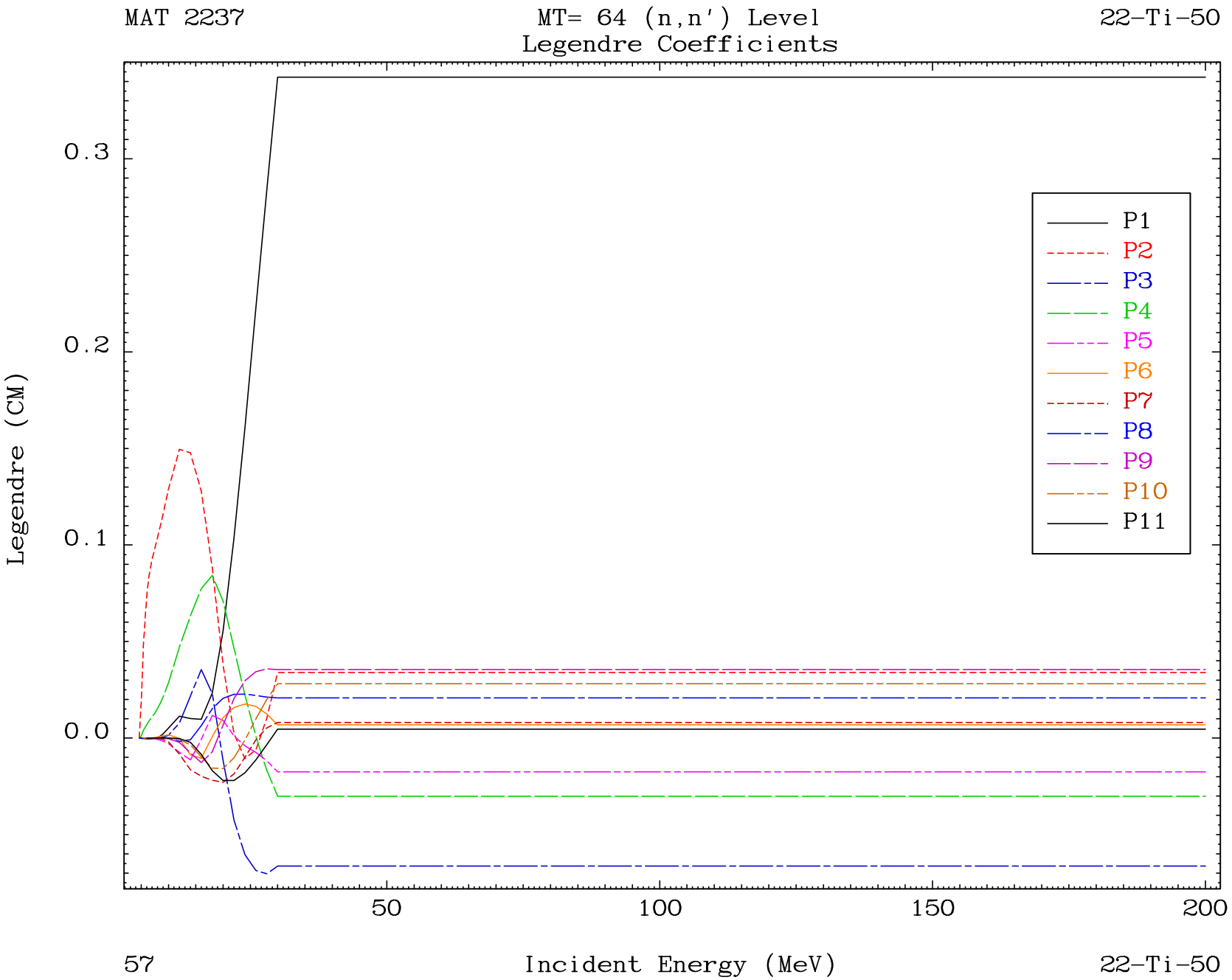

MAT 2237
MT= 62 (n,n') Level
Legendre Coefficients
22-Ti-50
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.006
0.004
0.002
0.000
-0.002
Legendre (CM)
50
100
150
200
52
Incident Energy (MeV)
22-Ti-50

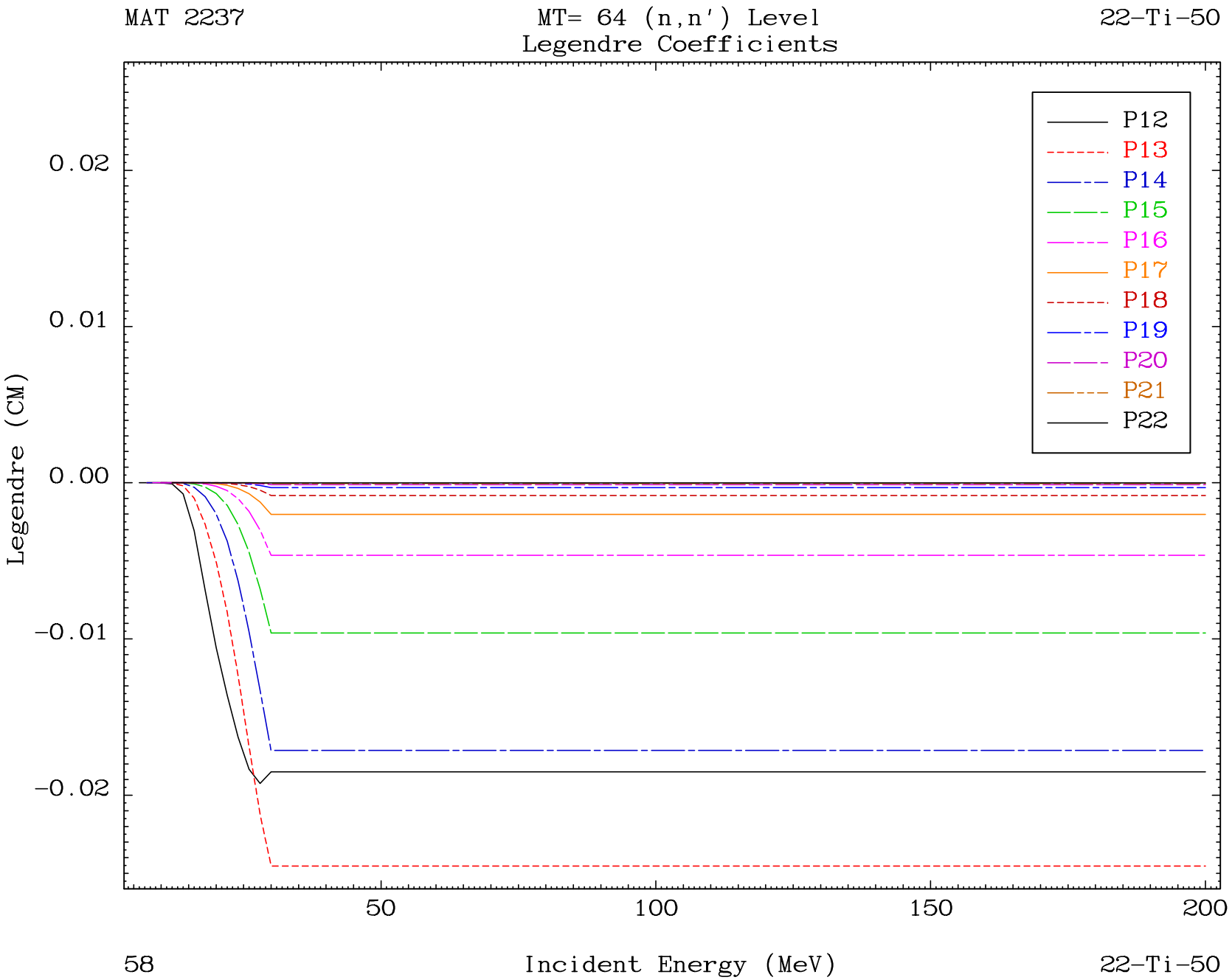

MAT 2237
MT= 62 (n,n') Level
Legendre Coefficients
22-Ti-50
0.0
X10^-5
-0.5
-1.0
-1.5
-2.0
Legendre (CM)
50
100
150
200
53
Incident Energy (MeV)
22-Ti-50
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30

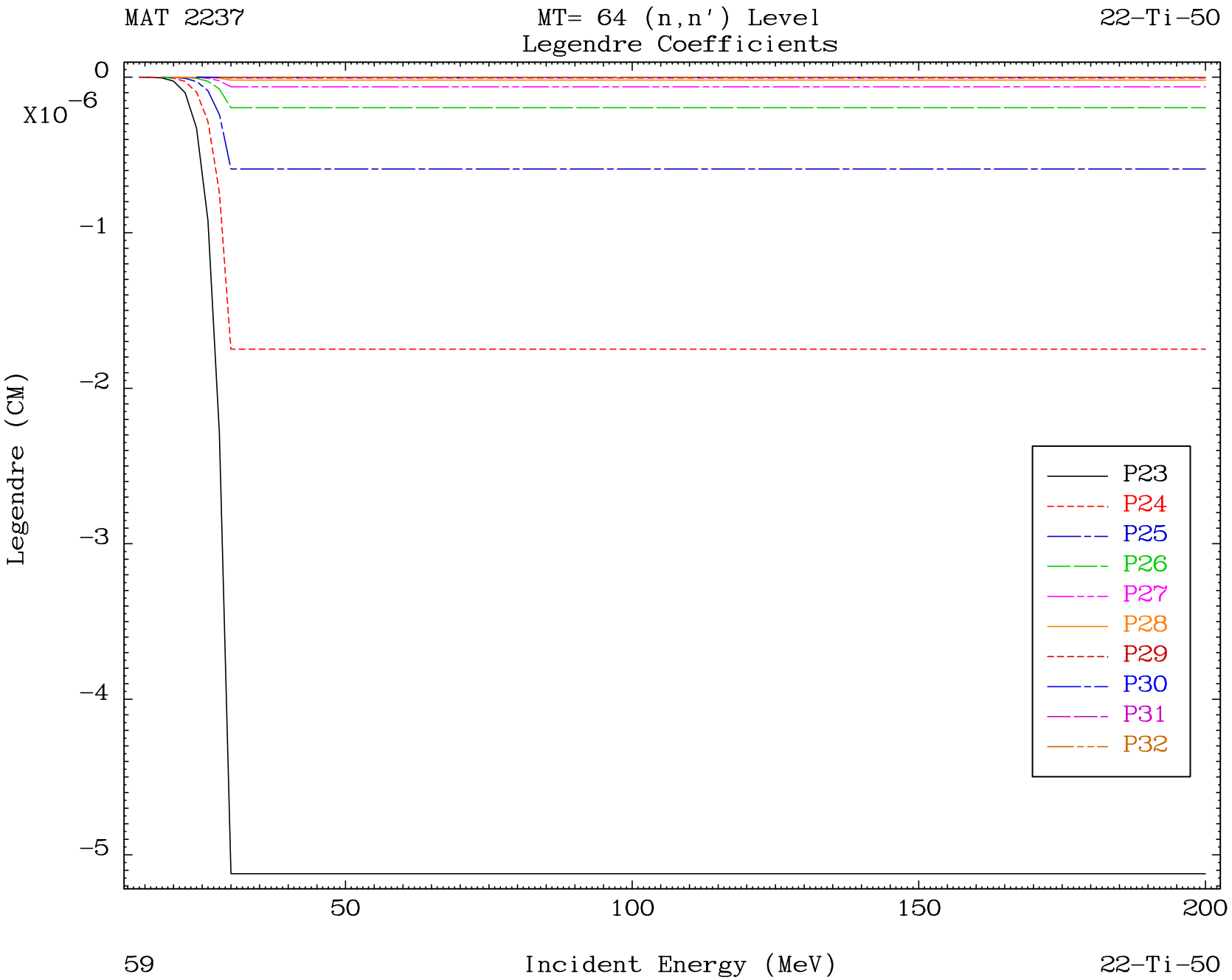

MAT 2237
MT= 63 (n,n') Level
Legendre Coefficients
22-Ti-50
0.5
0.4
0.3
0.2
0.1
0.0
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
50
100
150
200
54
Incident Energy (MeV)
22-Ti-50

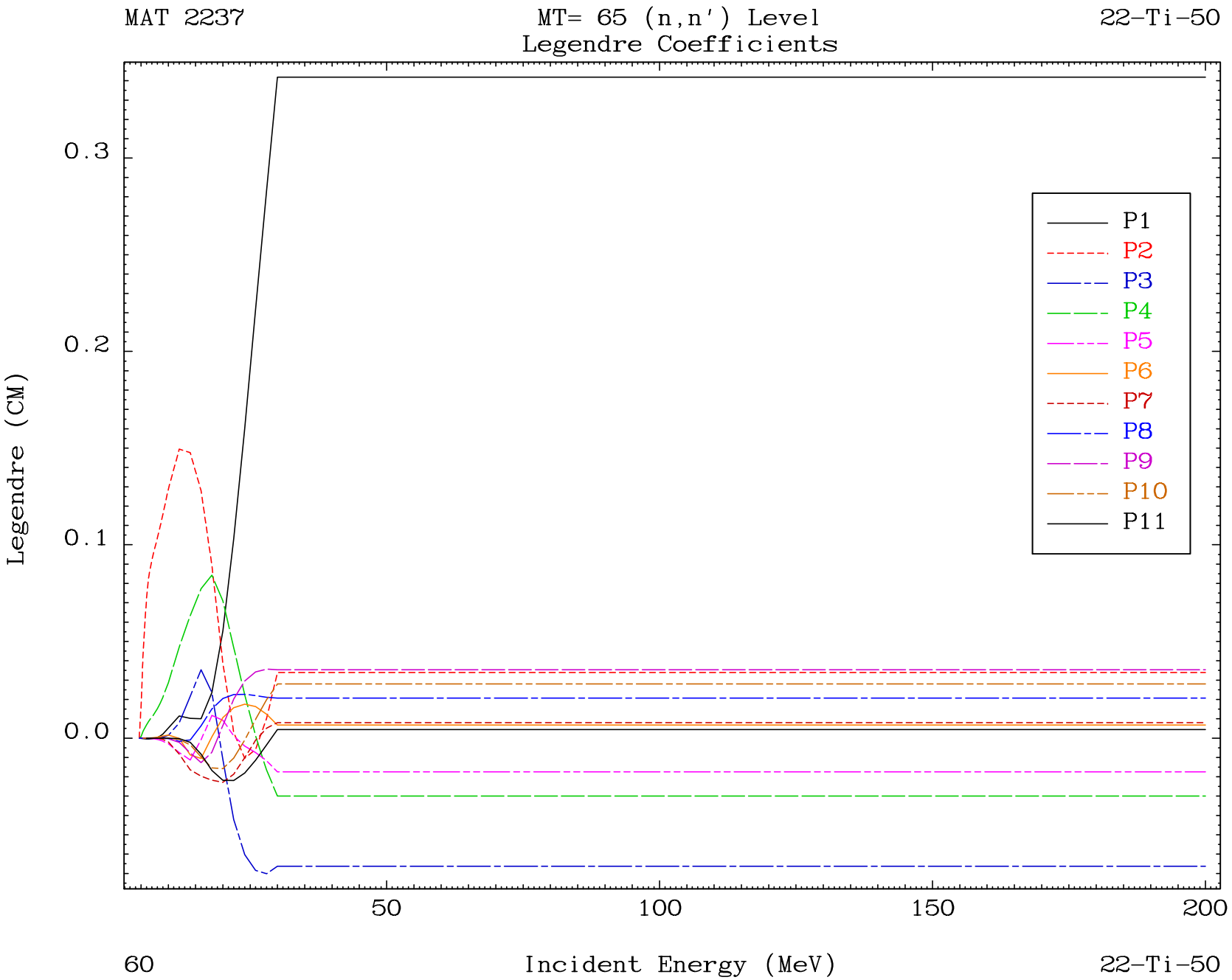

MAT 2237
MT= 63 (n,n') Level
Legendre Coefficients
22-Ti-50
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.020
0.015
0.010
0.005
0.000
Legendre (CM)
50
100
150
200
55
Incident Energy (MeV)
22-Ti-50

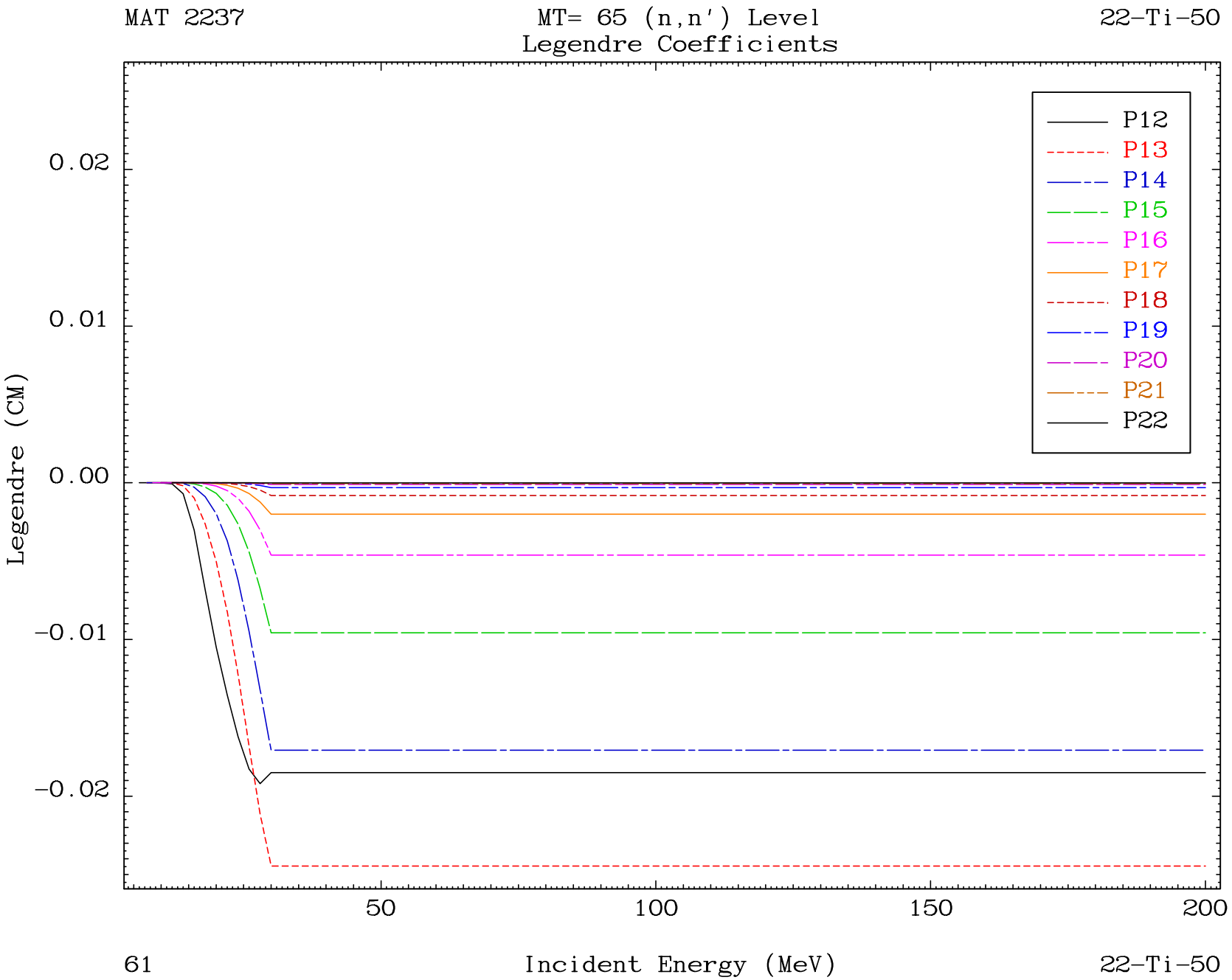

MAT 2237
MT= 63 (n,n') Level
Legendre Coefficients
22-Ti-50
X10 -5
3
2
1
0
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
50
100
150
200
56
Incident Energy (MeV)
22-Ti-50

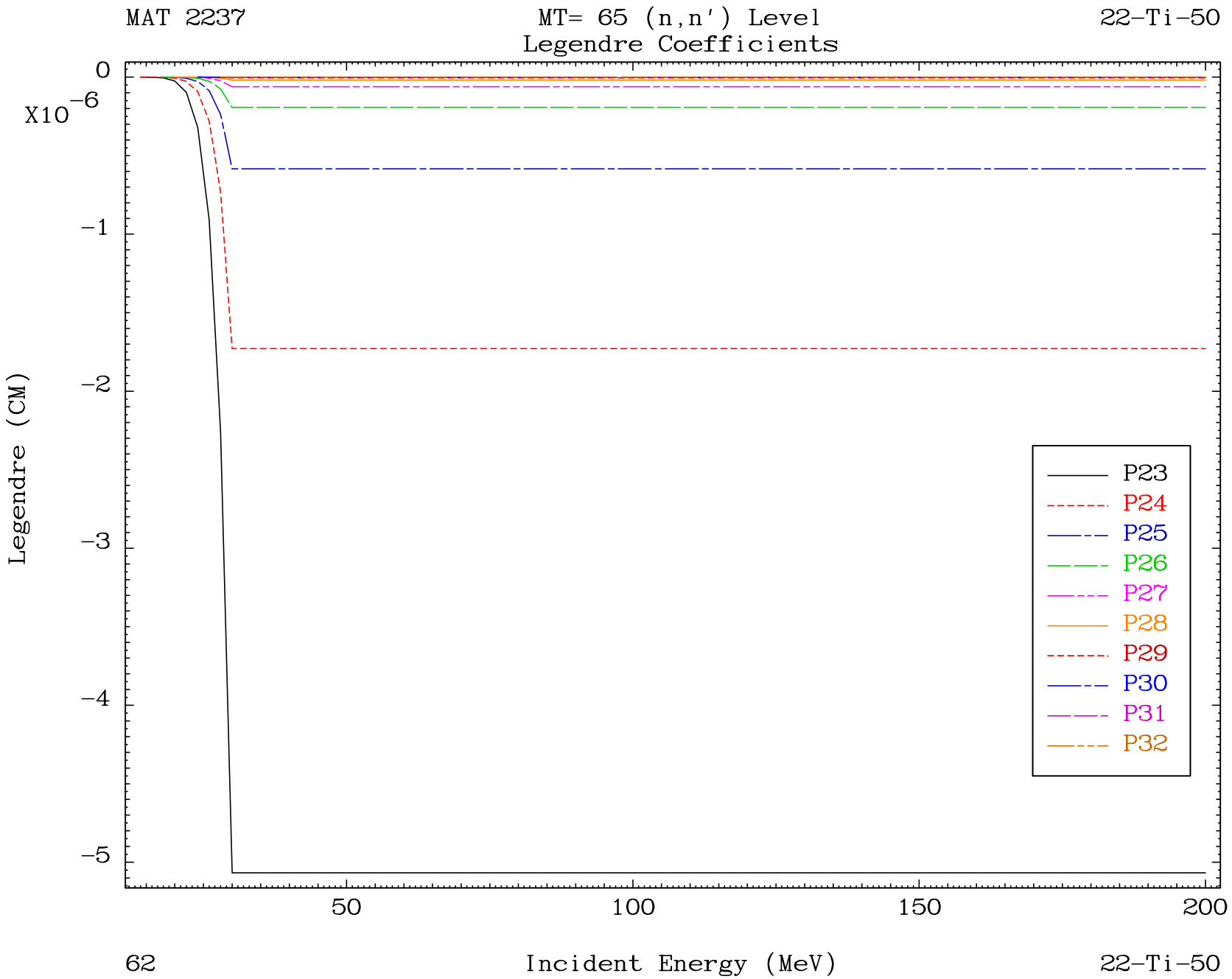

MAT 2237
MT= 64 (n,n') Level
Legendre Coefficients
22-Ti-50
Legendre (CM)
0.3
0.2
0.1
0.0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11
57
Incident Energy (MeV)
22-Ti-50

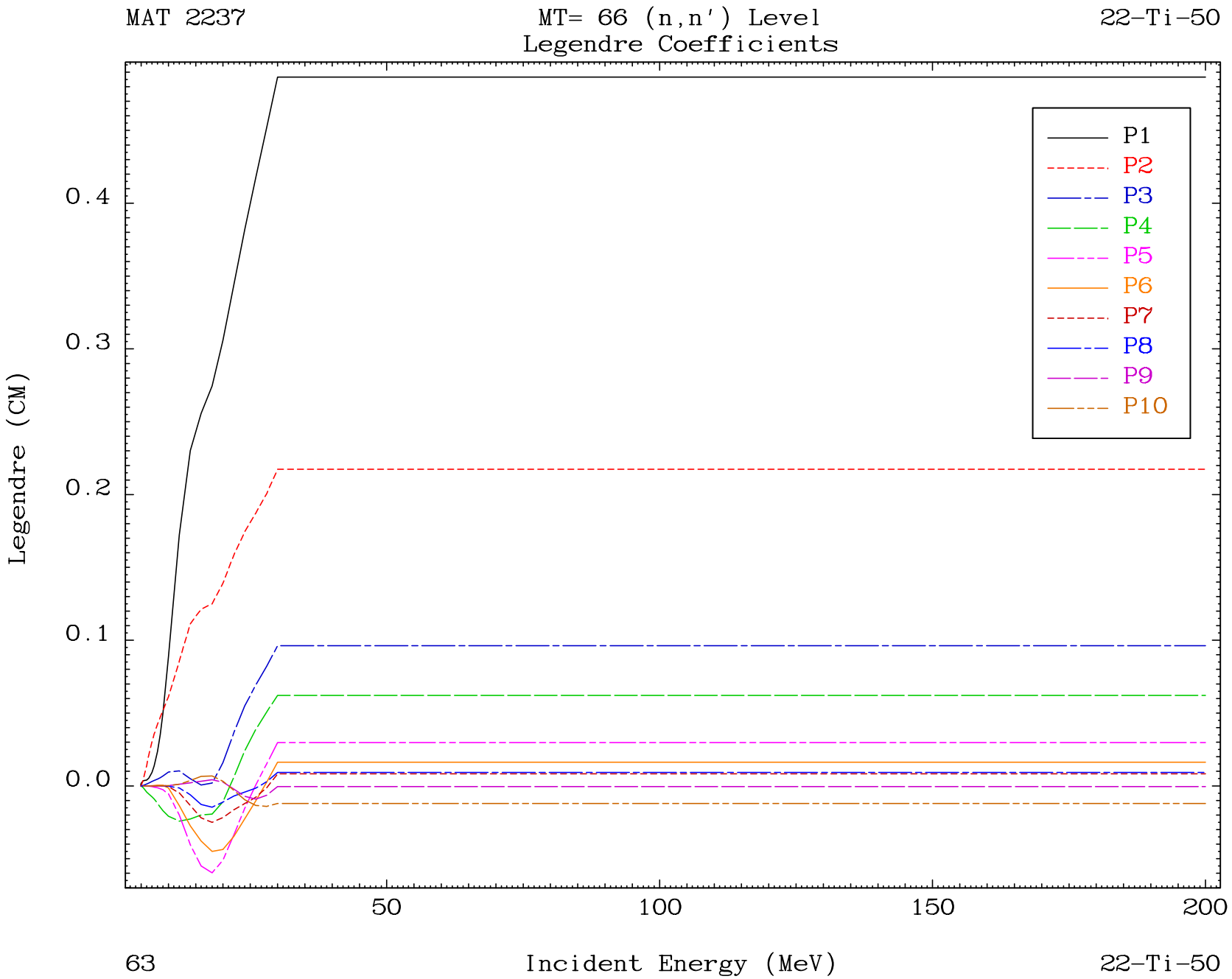

MAT 2237
MT= 64 (n,n') Level
Legendre Coefficients
22-Ti-50
P12
P13
P14
P15
P16
P17
P18
P19
P20
P21
P22
0.02
0.01
0.00
-0.01
-0.02
Legendre (CM)
50
100
150
200
58
Incident Energy (MeV)
22-Ti-50

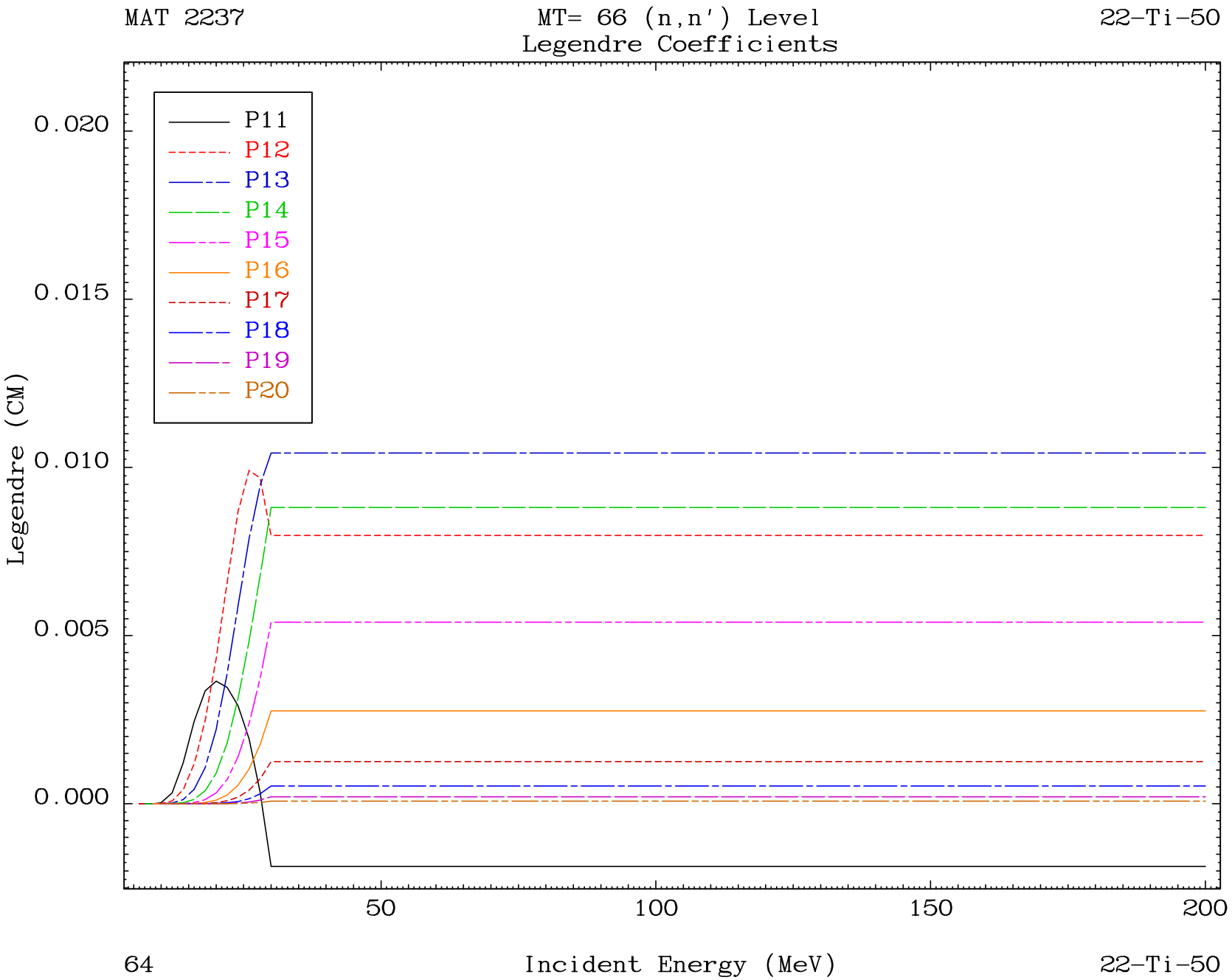

MAT 2237
MT= 64 (n,n') Level
Legendre Coefficients
22-Ti-50
X10−6
0
−1
−2
−3
−4
−5
Legendre (CM)
50
100
150
200
P23
P24
P25
P26
P27
P28
P29
P30
P31
P32
59
Incident Energy (MeV)
22-Ti-50

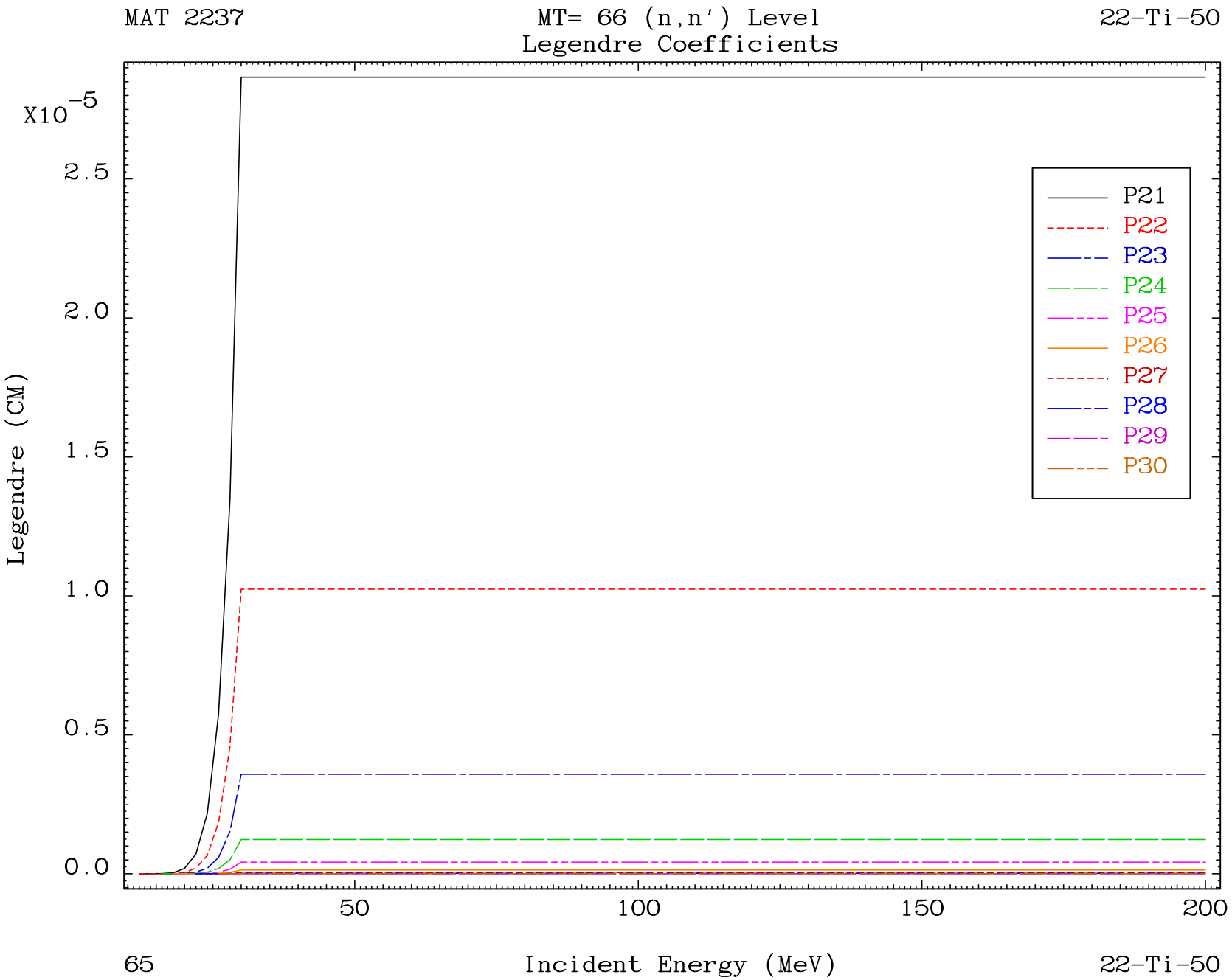

MAT 2237
MT= 65 (n,n') Level
Legendre Coefficients
22-Ti-50
Legendre (CM)
0.3
0.2
0.1
0.0
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11
50
100
150
200
60
Incident Energy (MeV)
22-Ti-50

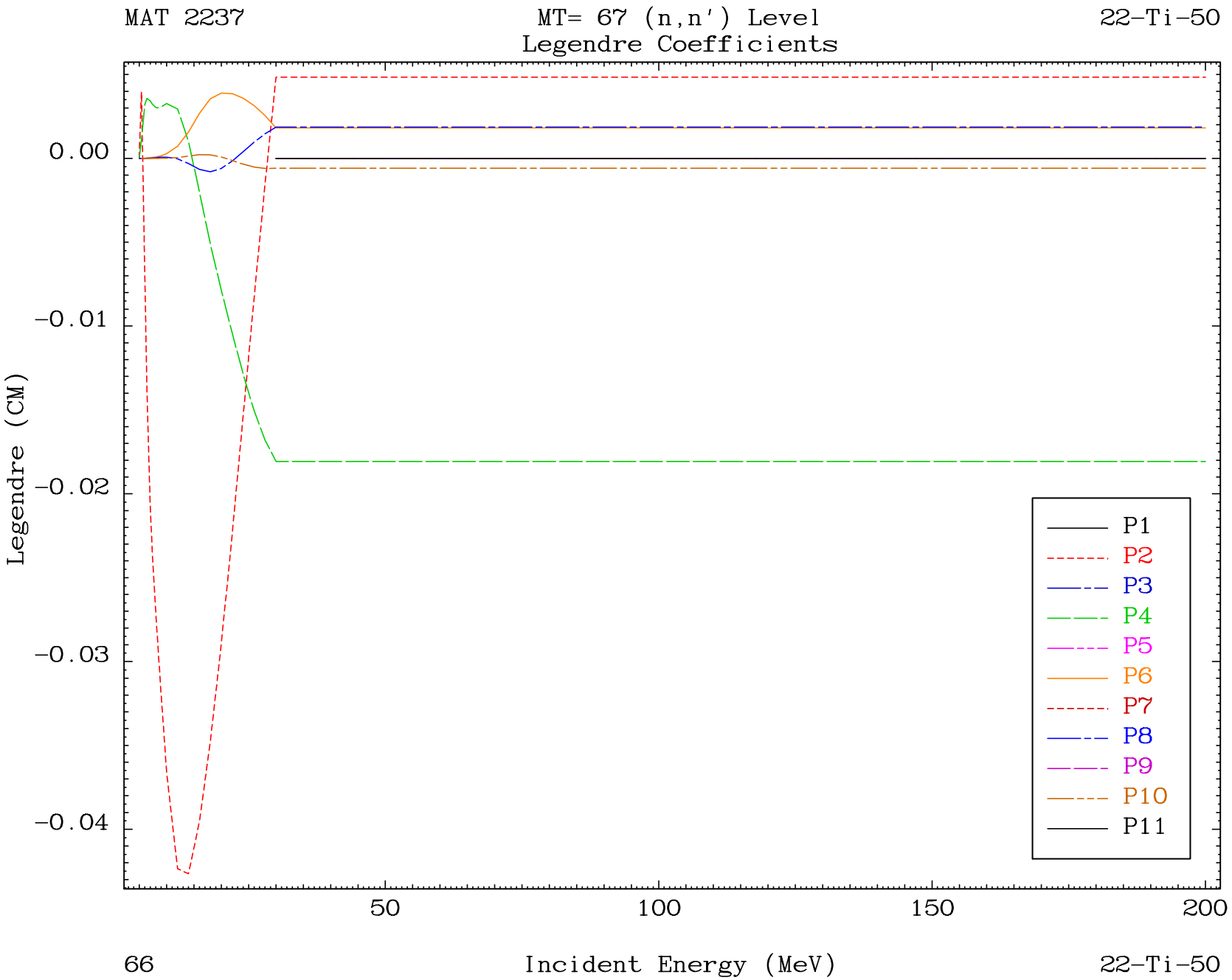

MAT 2237
MT= 65 (n,n') Level
Legendre Coefficients
22-Ti-50
P12
P13
P14
P15
P16
P17
P18
P19
P20
P21
P22
0.02
0.01
0.00
-0.01
-0.02
Legendre (CM)
50
100
150
200
61
Incident Energy (MeV)
22-Ti-50

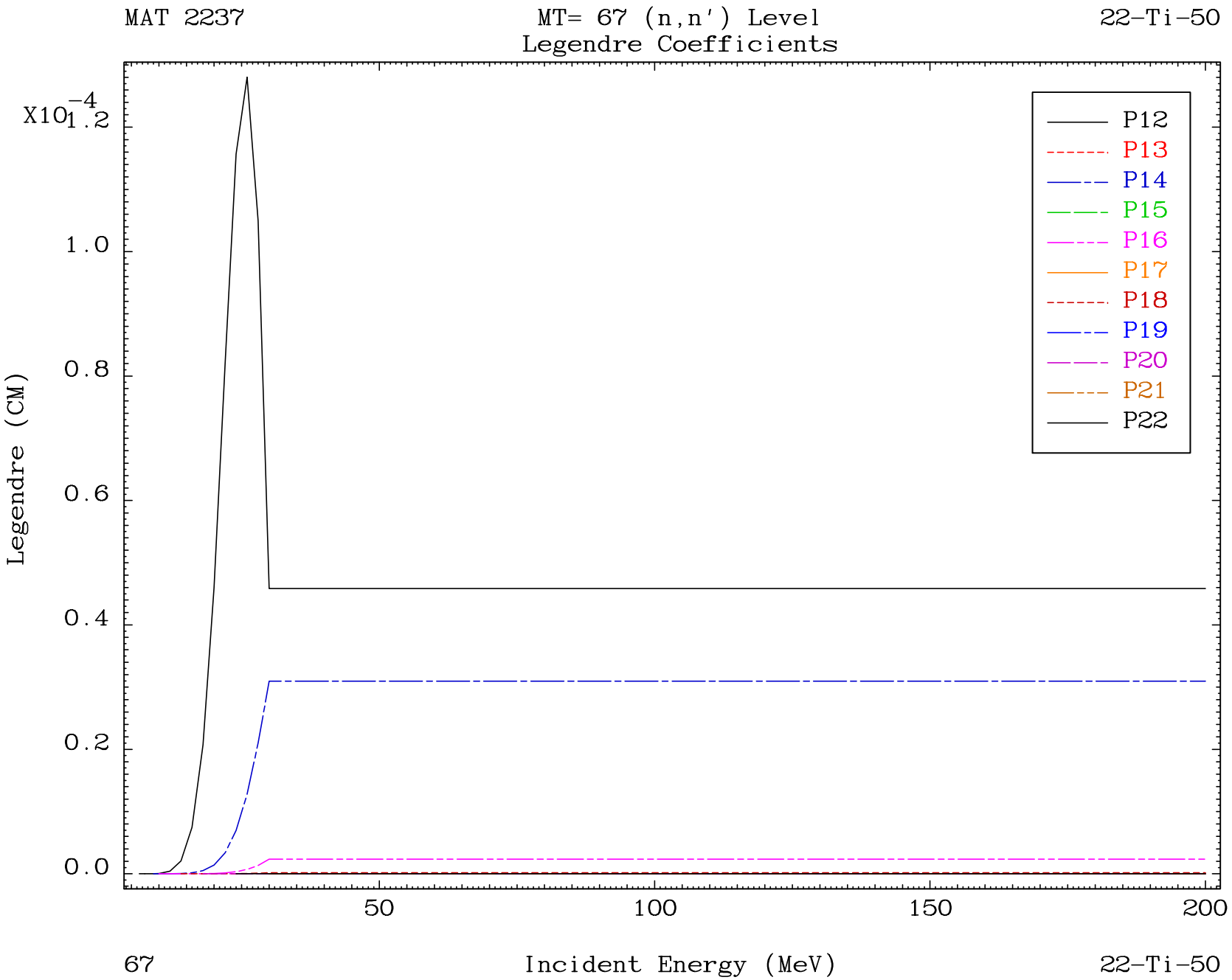

MAT 2237
MT= 65 (n,n') Level
Legendre Coefficients
22-Ti-50
X10^-6
0
-1
-2
-3
-4
-5
Legendre (CM)
50
100
150
200
62
Incident Energy (MeV)
22-Ti-50
P23
P24
P25
P26
P27
P28
P29
P30
P31
P32

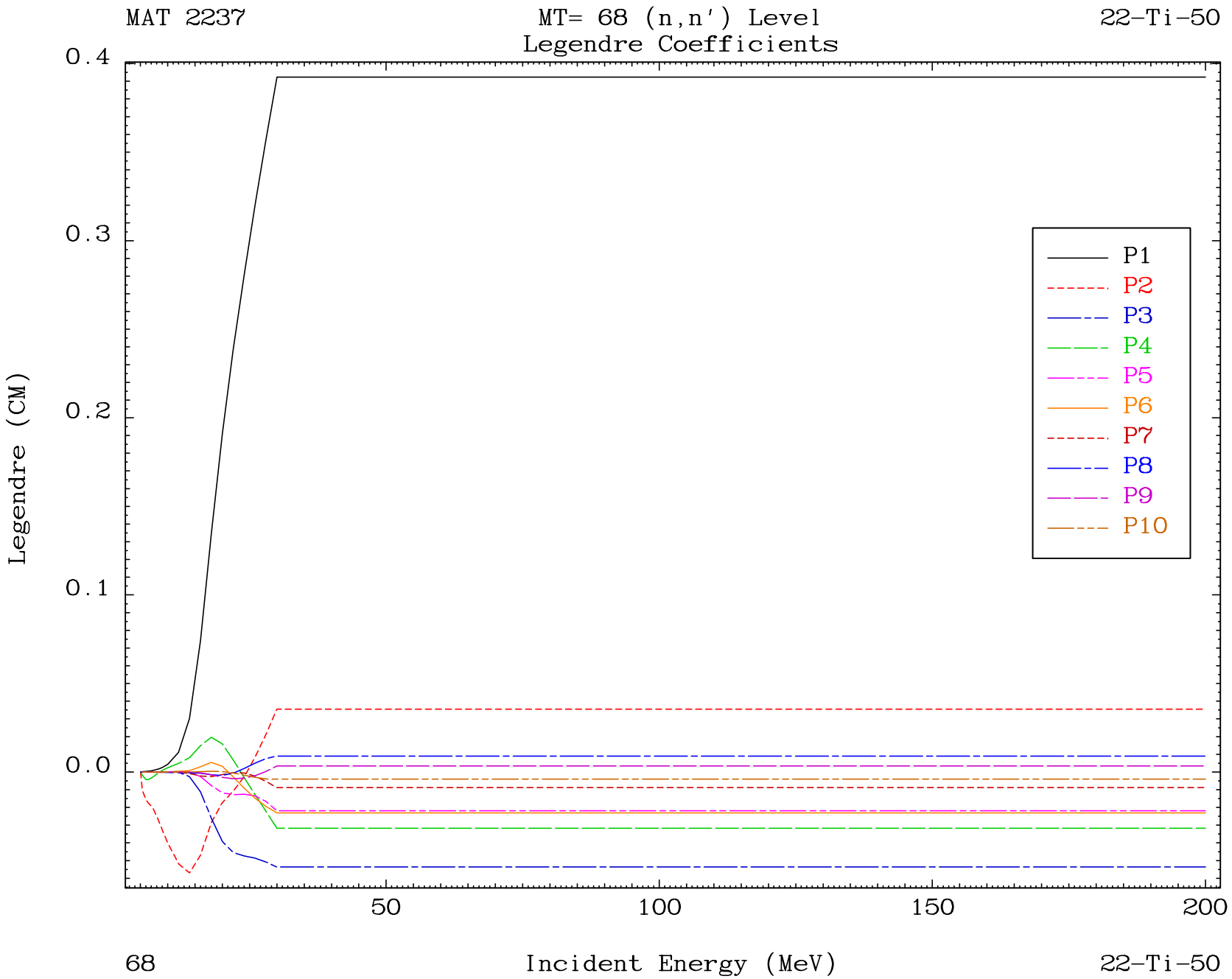

MAT 2237
MT= 66 (n,n') Level
Legendre Coefficients
22-Ti-50
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
50
100
150
200
63
Incident Energy (MeV)
22-Ti-50
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10

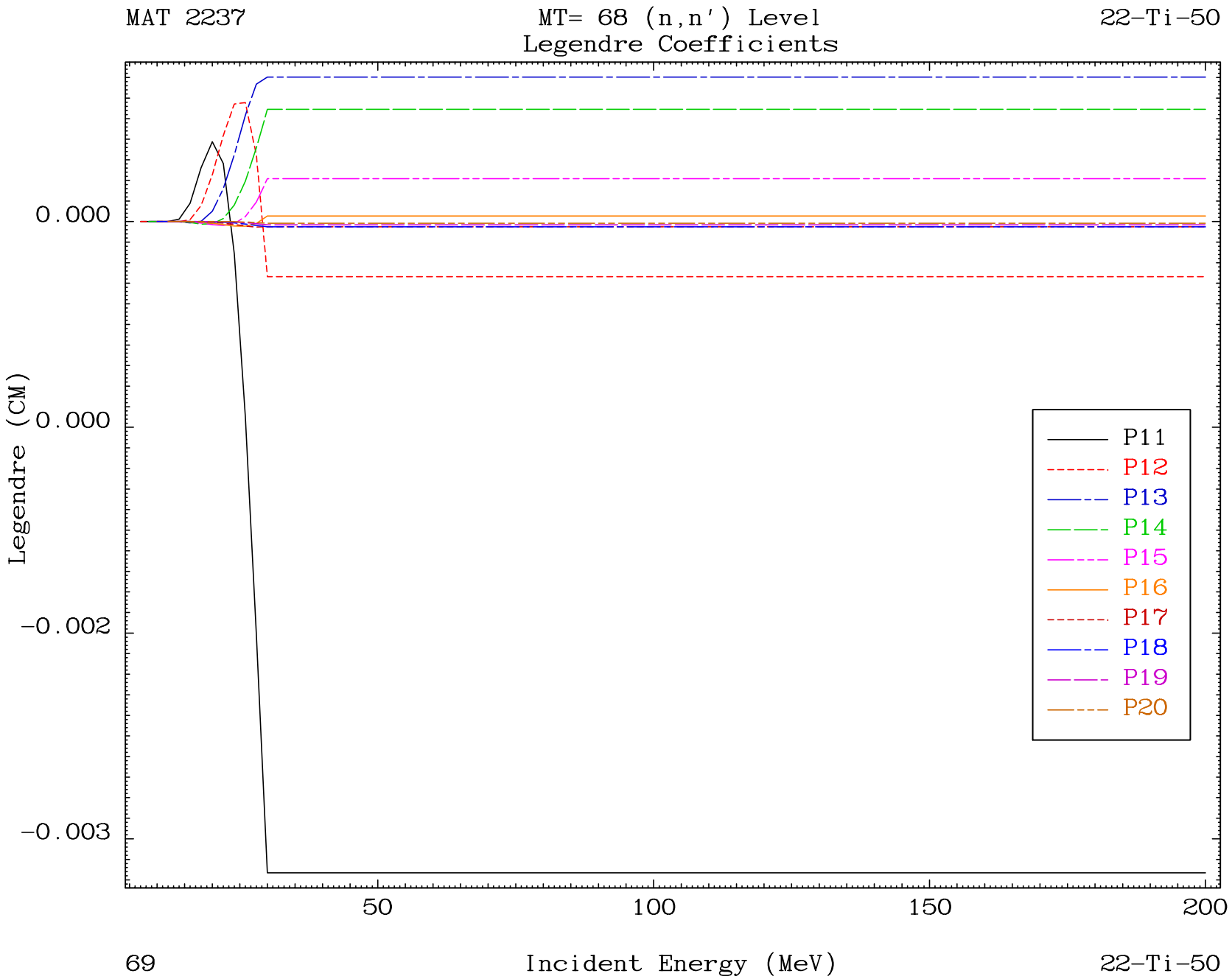

MAT 2237
MT= 66 (n,n') Level
Legendre Coefficients
22-Ti-50
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.020
0.015
0.010
0.005
0.000
Legendre (CM)
50
100
150
200
64
Incident Energy (MeV)
22-Ti-50

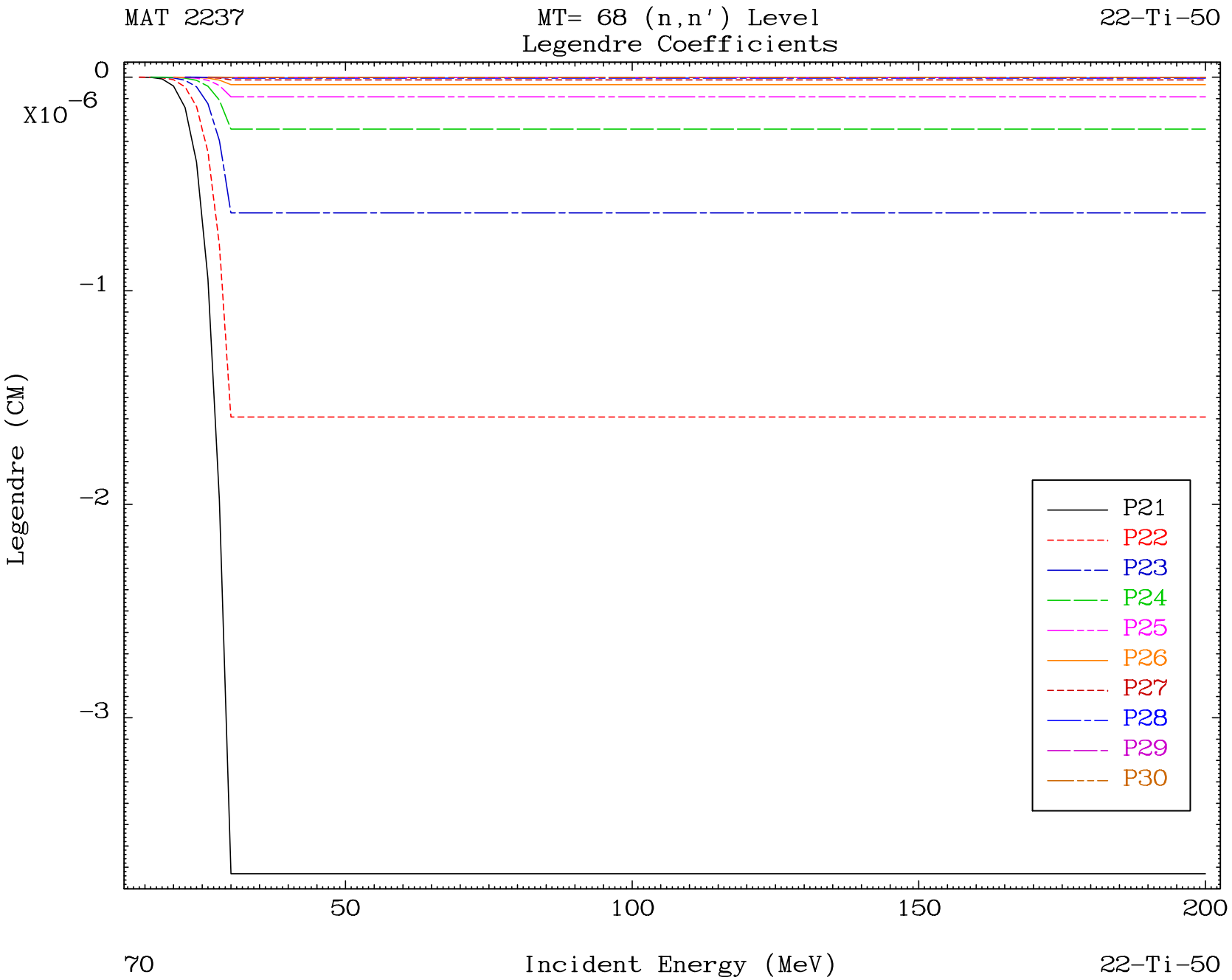

MAT 2237
MT= 66 (n,n') Level
Legendre Coefficients
22-Ti-50
X10^-5
2.5
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
50
100
150
200
65
Incident Energy (MeV)
22-Ti-50

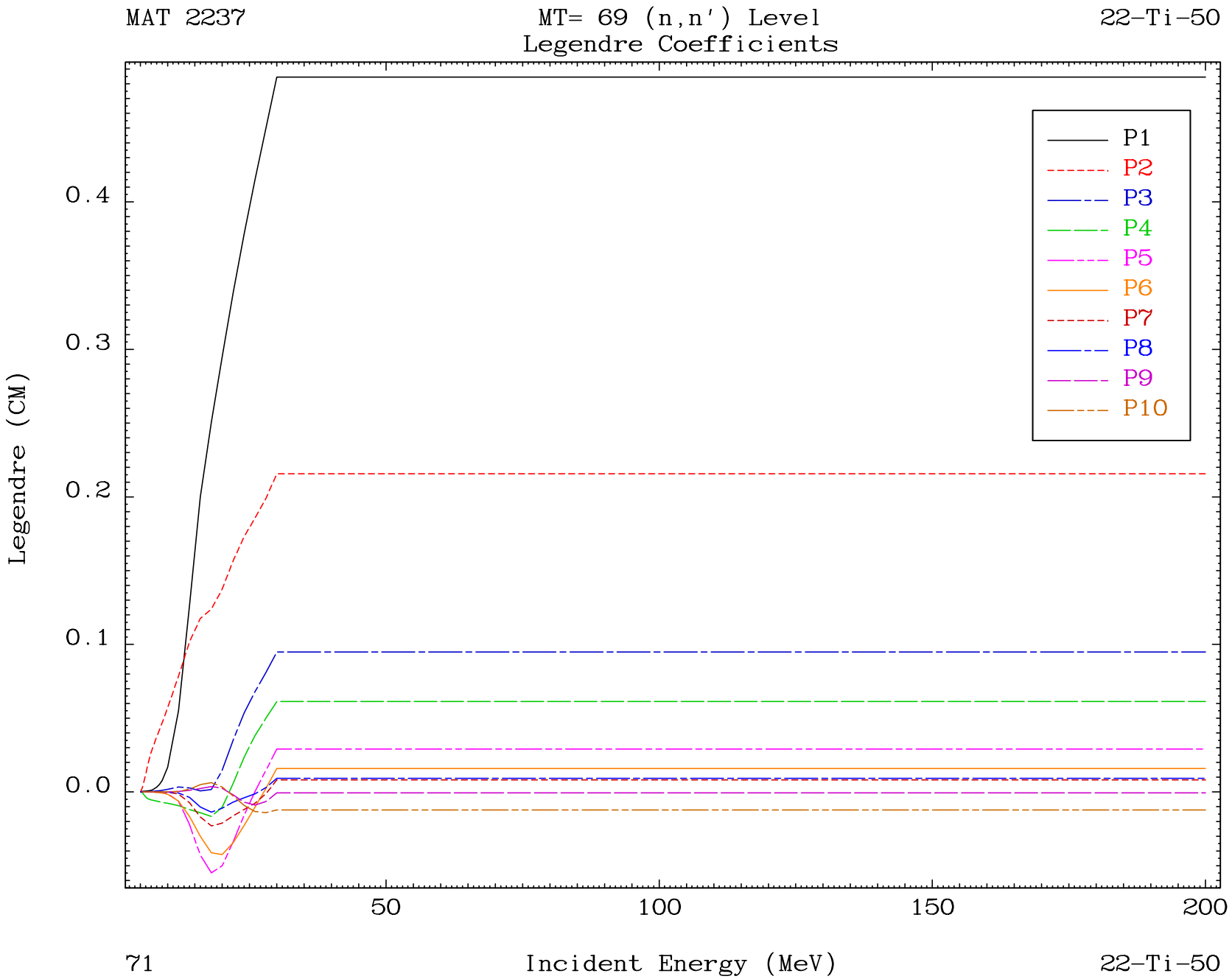

MAT 2237
MT= 67 (n,n') Level
Legendre Coefficients
22-Ti-50
0.00
-0.01
-0.02
-0.03
-0.04
Legendre (CM)
50
100
150
200
66
Incident Energy (MeV)
22-Ti-50
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11

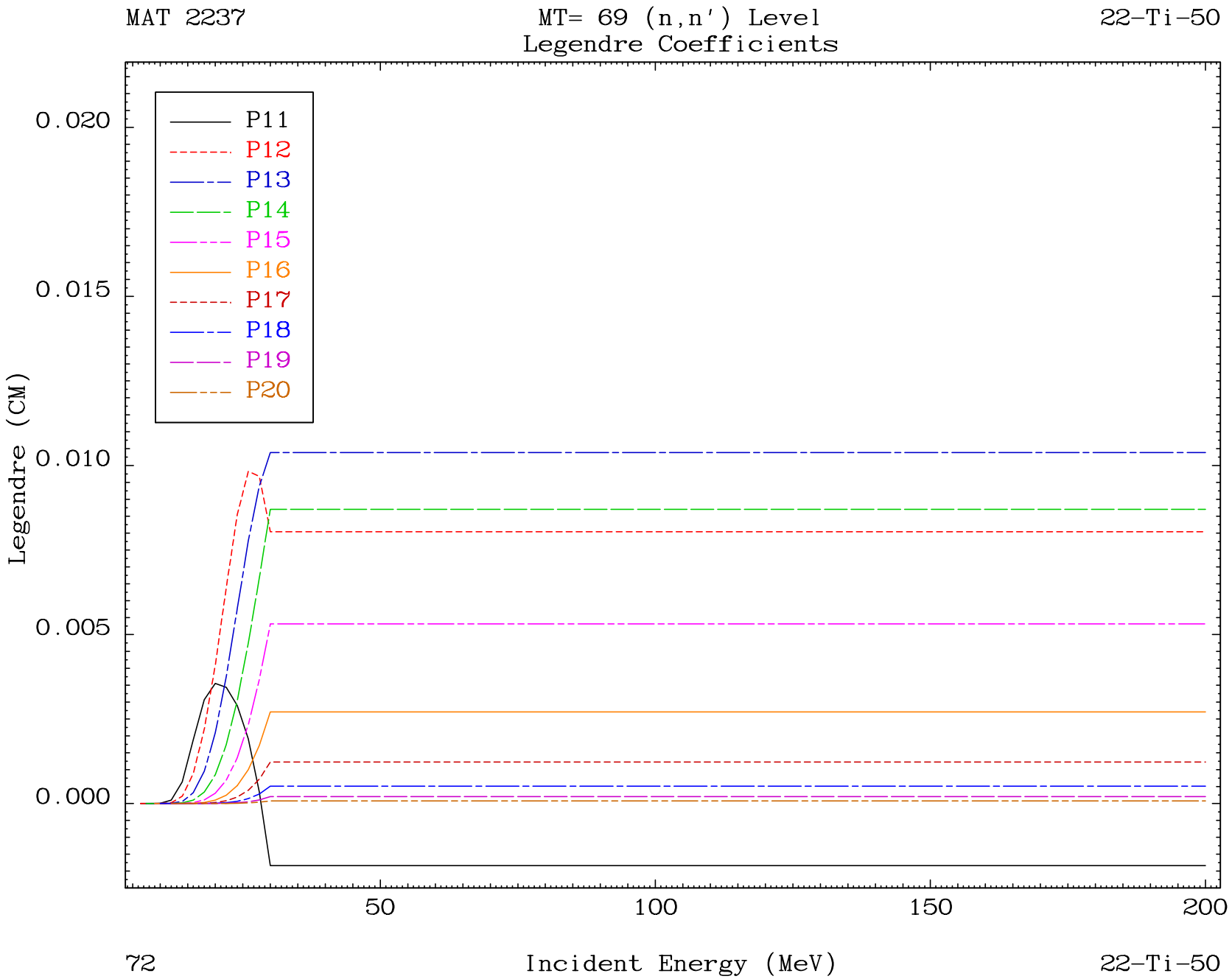

MAT 2237
MT= 67 (n,n') Level
Legendre Coefficients
22-Ti-50
X10^-4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
P12
P13
P14
P15
P16
P17
P18
P19
P20
P21
P22
50
100
150
200
67
Incident Energy (MeV)
22-Ti-50

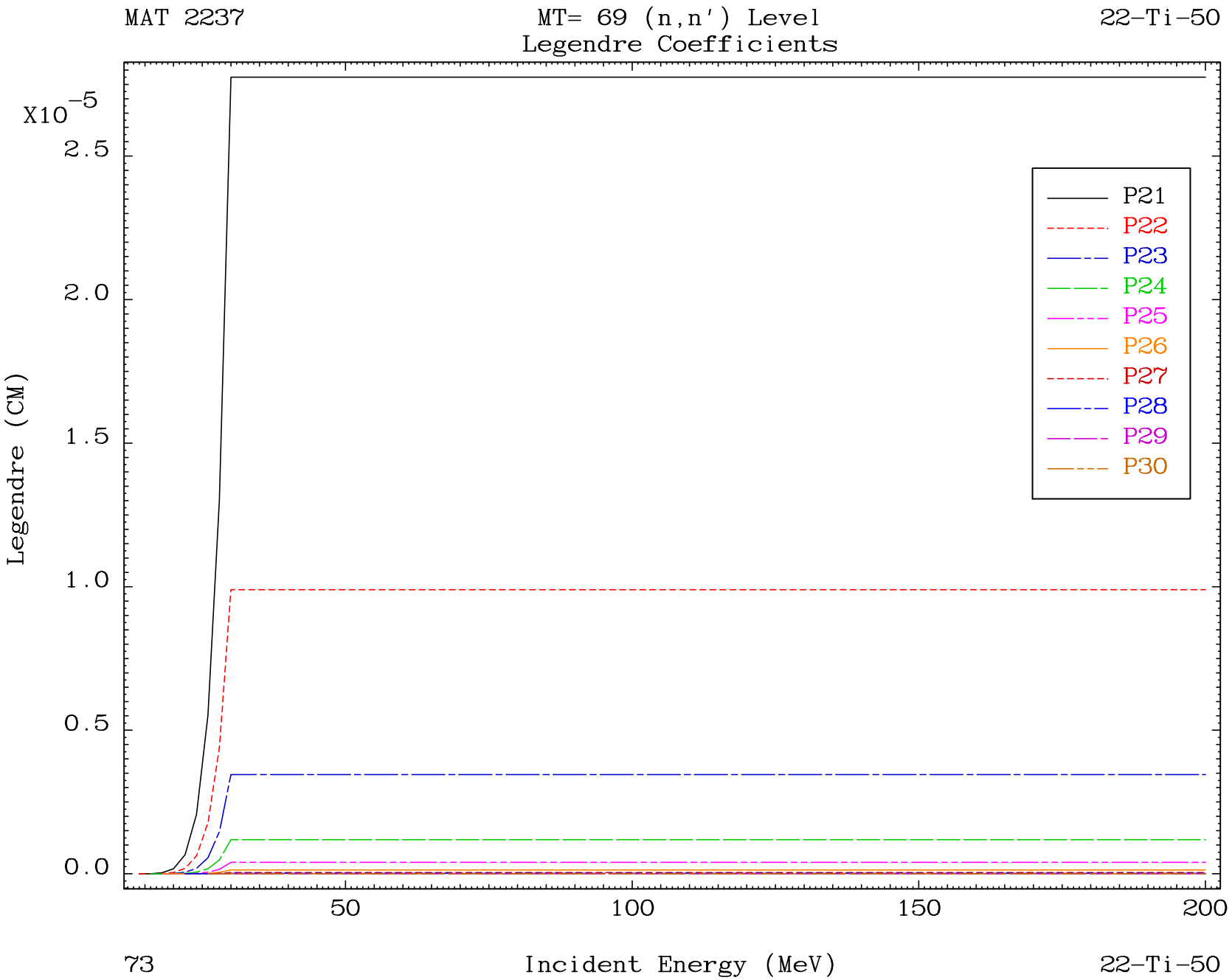

MAT 2237
MT= 68 (n,n') Level
Legendre Coefficients
22-Ti-50
0.4
0.3
0.2
0.1
0.0
Legendre (CM)
50
100
150
200
68
Incident Energy (MeV)
22-Ti-50
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10

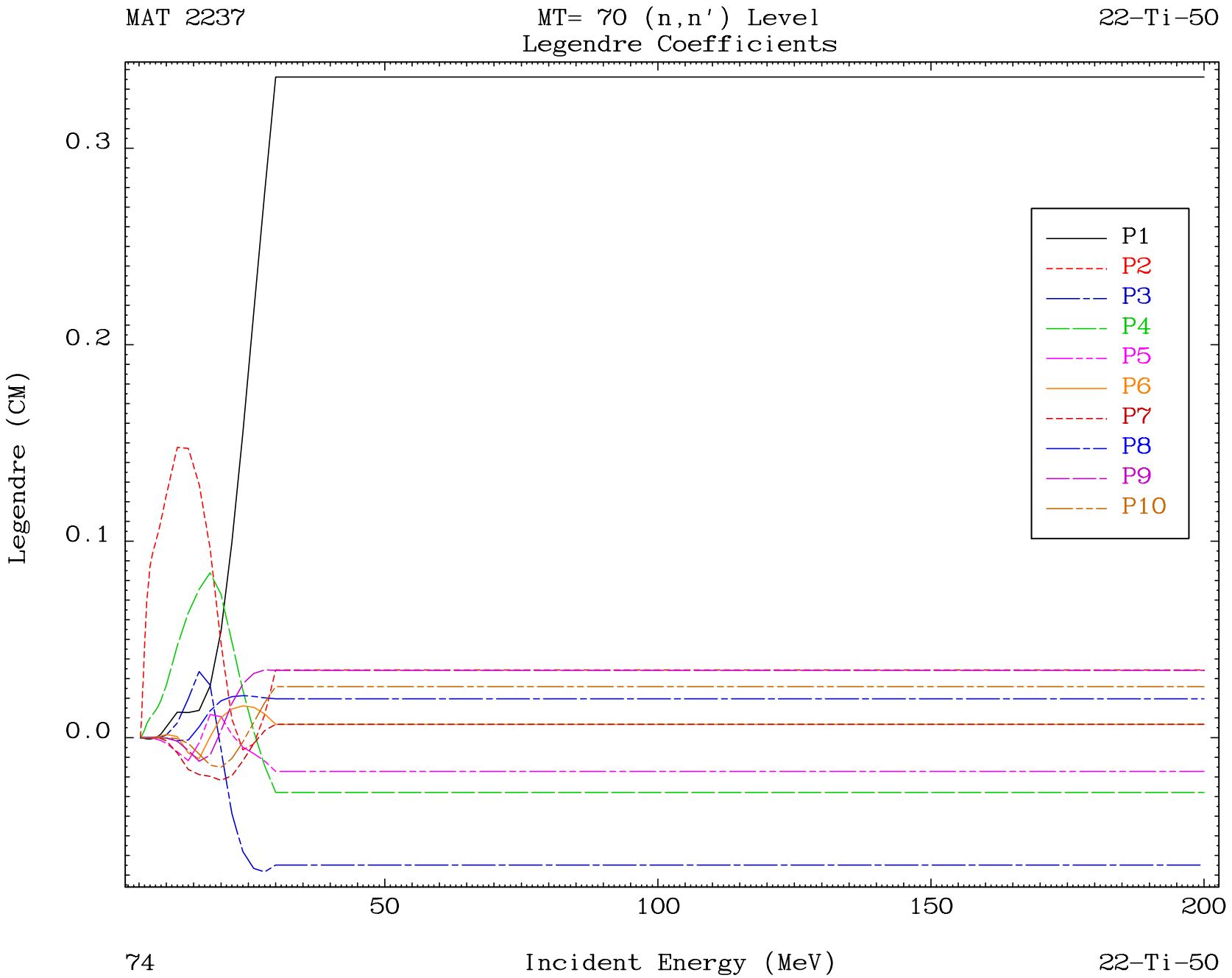

MAT 2237
MT= 68 (n,n') Level
Legendre Coefficients
22-Ti-50
0.000
0.000
-0.002
-0.003
Legendre (CM)
50
100
150
200
69
Incident Energy (MeV)
22-Ti-50
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20

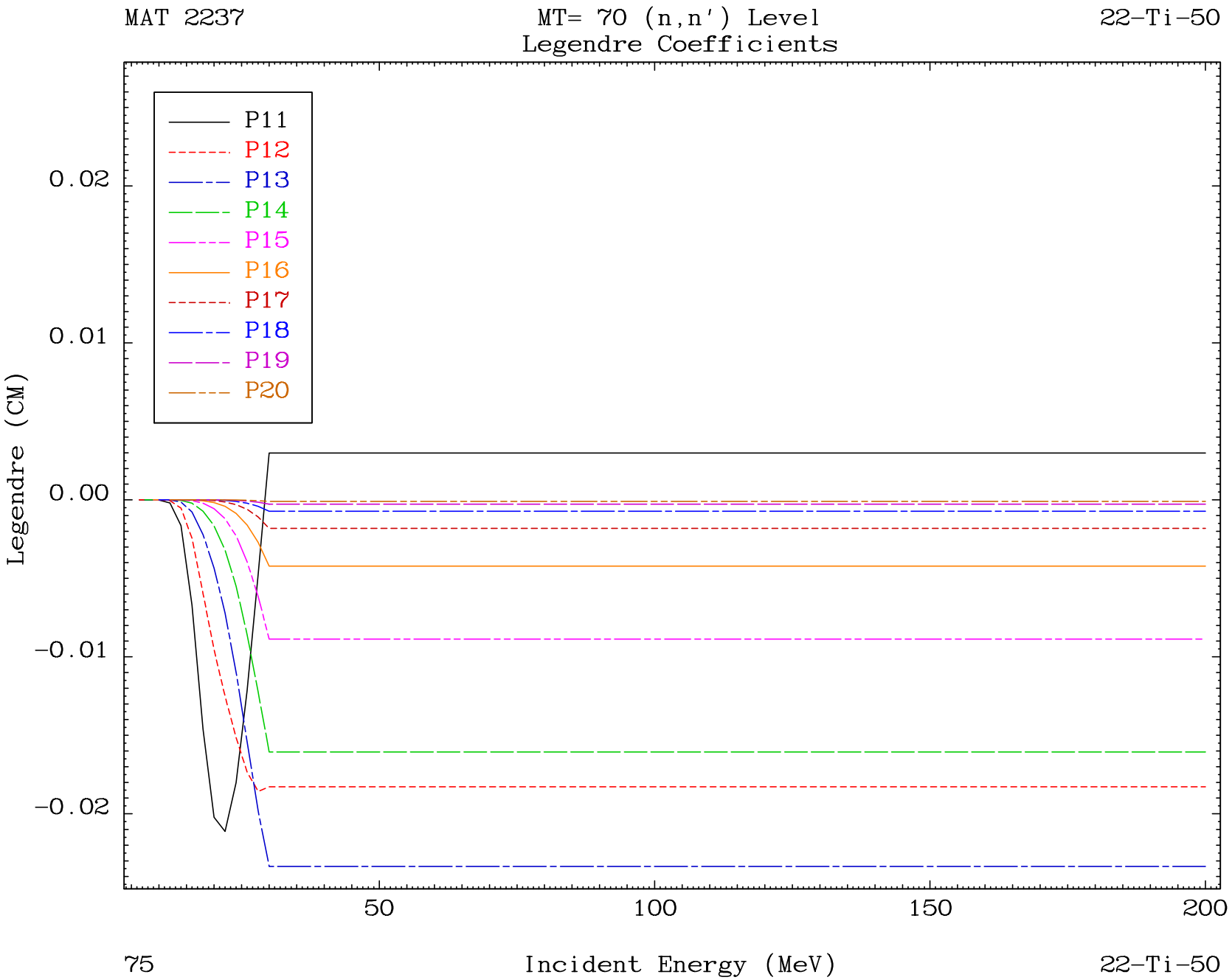

MAT 2237
MT= 68 (n,n') Level
Legendre Coefficients
22-Ti-50
0
X10−6
−1
−2
−3
Legendre (CM)
50
100
150
200
70
Incident Energy (MeV)
22-Ti-50
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30

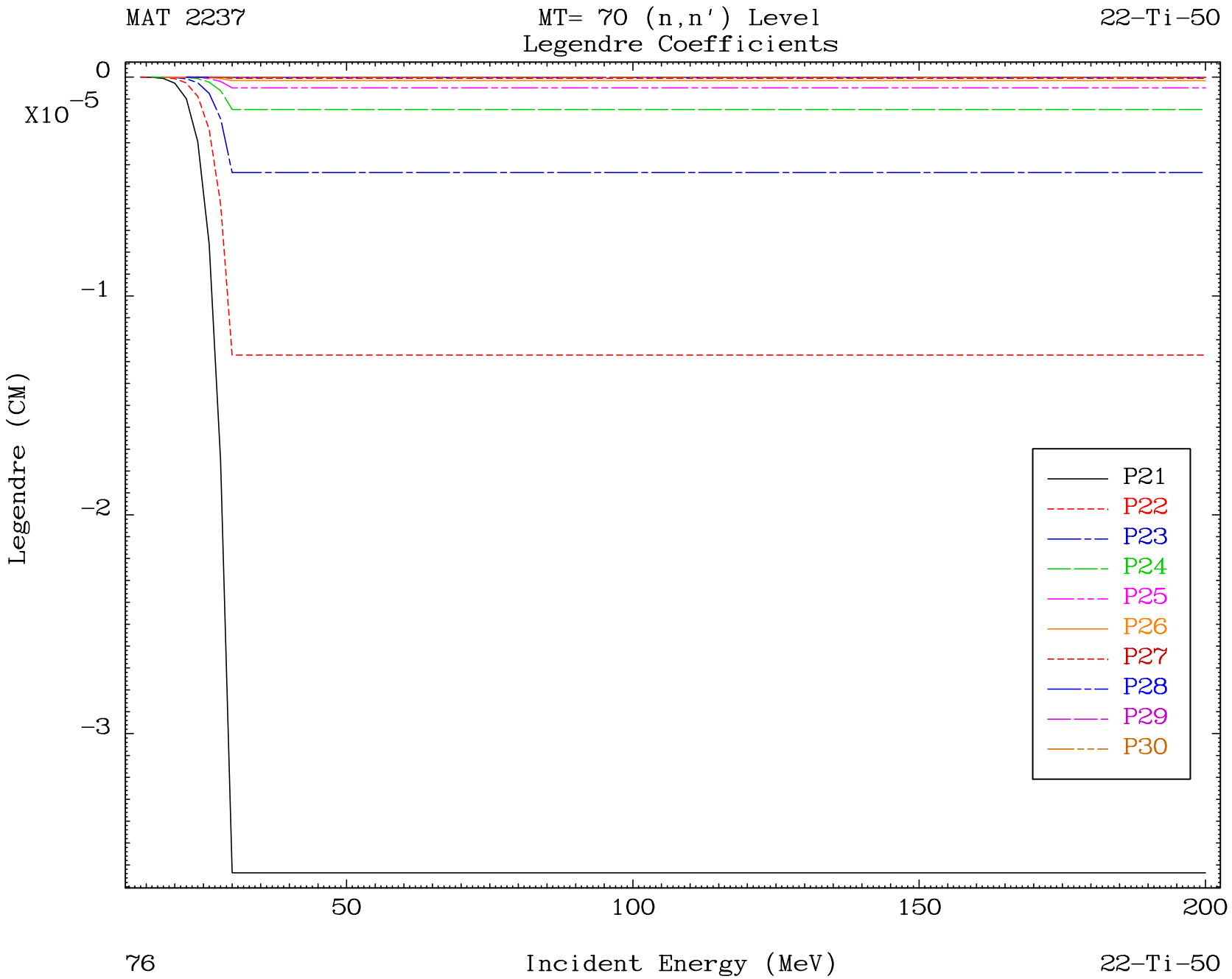

MAT 2237
MT= 69 (n,n') Level
Legendre Coefficients
22-Ti-50
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
71
Incident Energy (MeV)
22-Ti-50

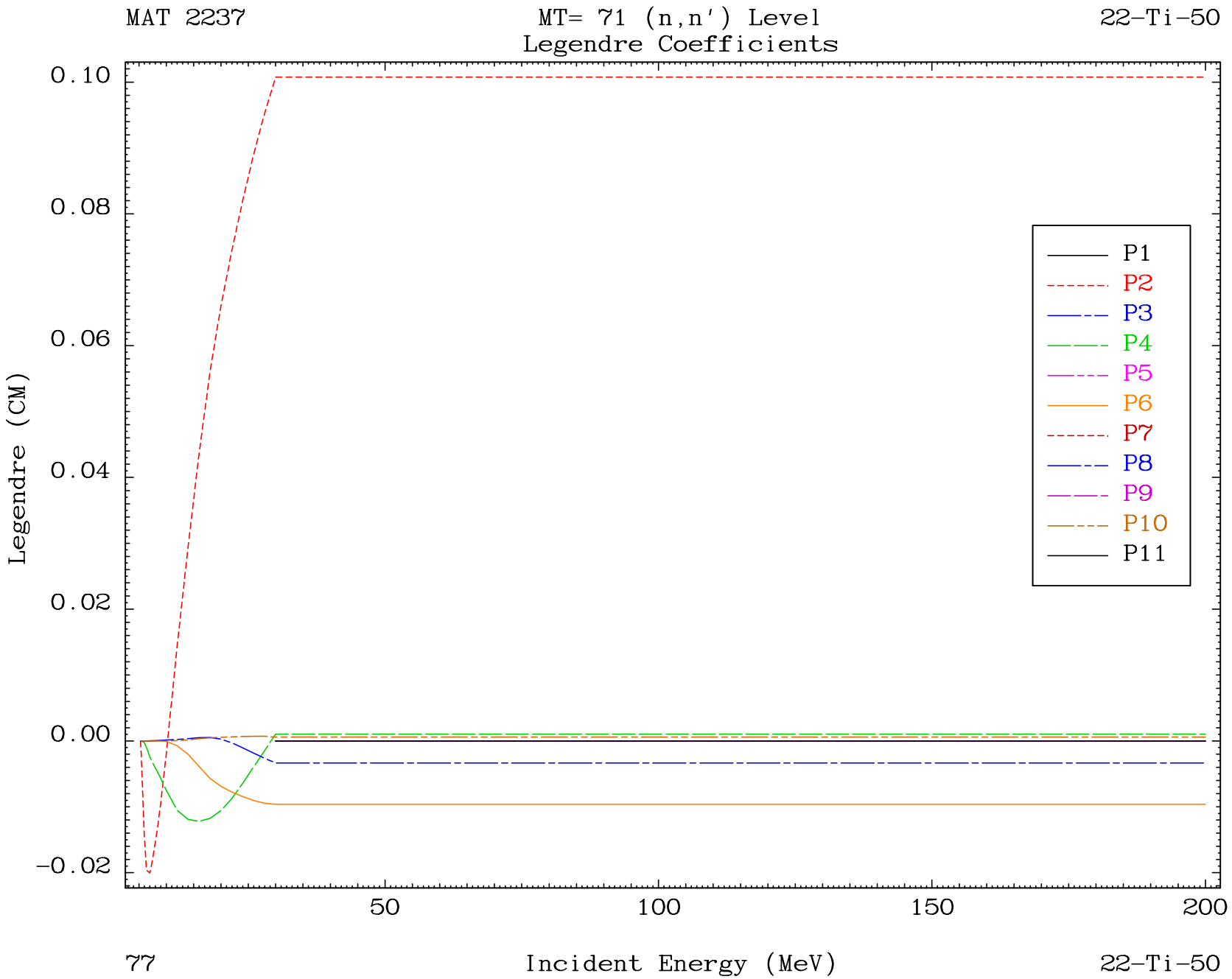

MAT 2237
MT= 69 (n,n') Level
Legendre Coefficients
22-Ti-50
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.020
0.015
0.010
0.005
0.000
Legendre (CM)
50
100
150
200
72
Incident Energy (MeV)
22-Ti-50

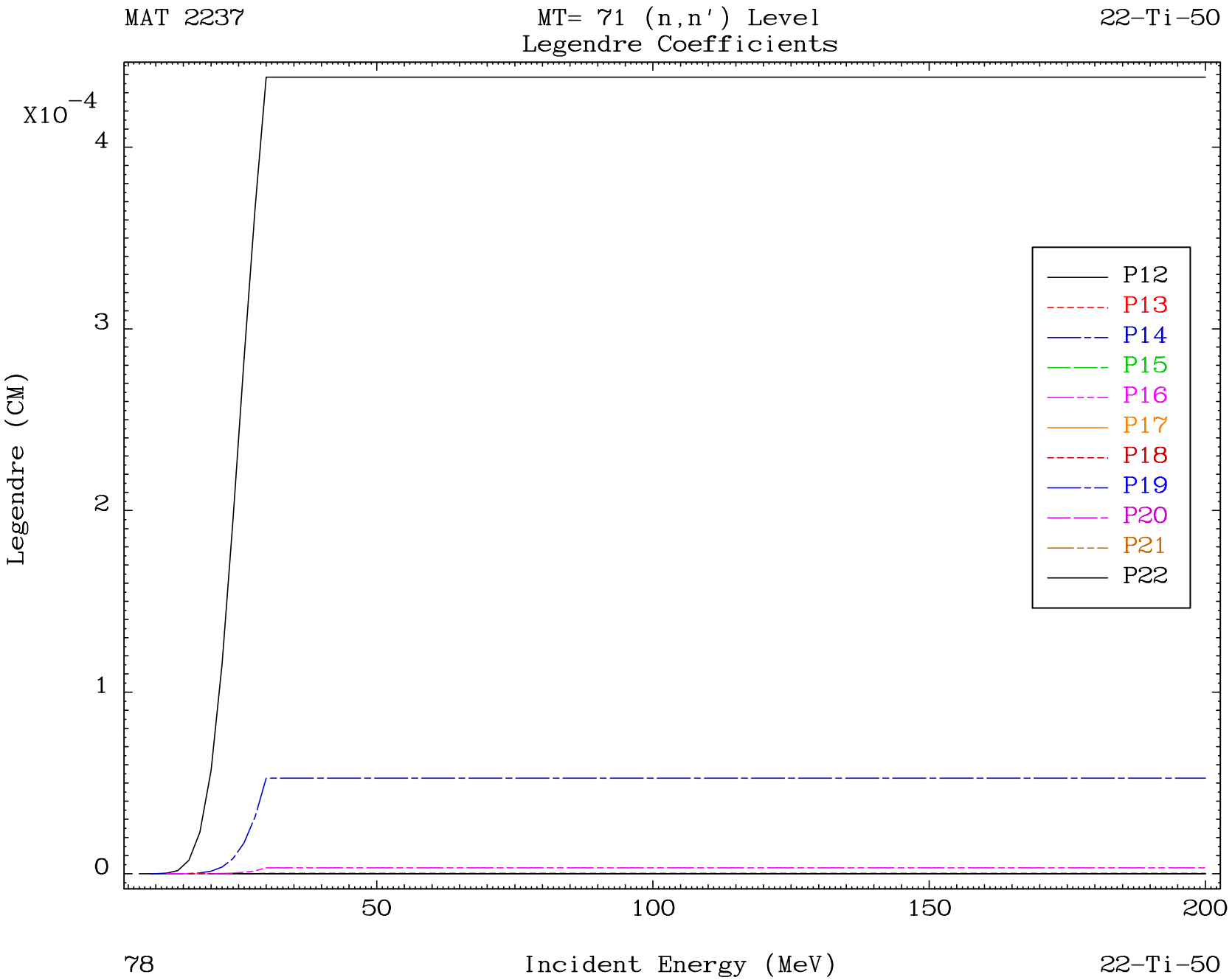

MAT 2237
MT= 69 (n,n') Level
Legendre Coefficients
22-Ti-50
X10^-5
2.5
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
50
100
150
200
73
Incident Energy (MeV)
22-Ti-50
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30

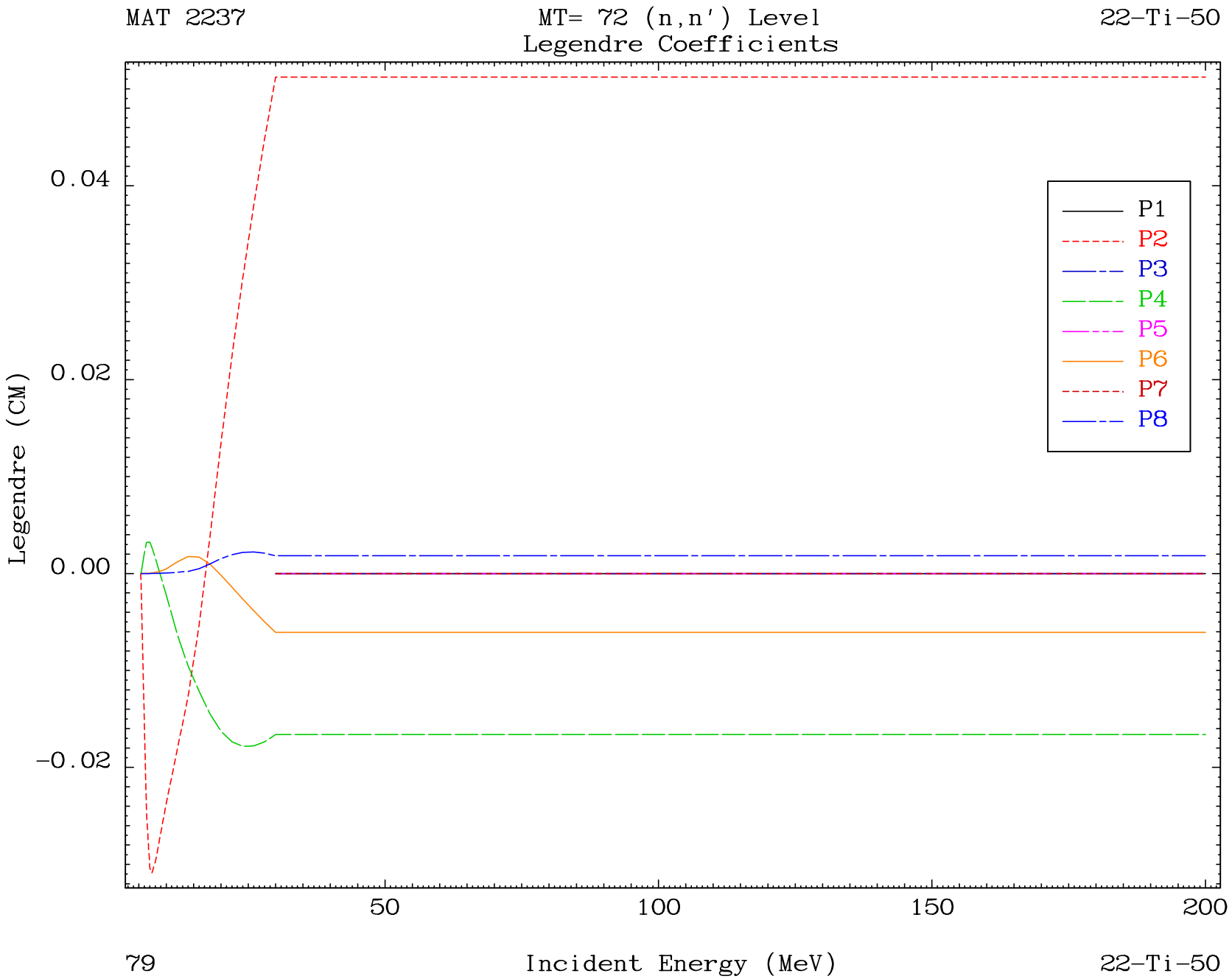

MAT 2237
MT= 70 (n,n') Level
Legendre Coefficients
22-Ti-50
Legendre (CM)
0.3
0.2
0.1
0.0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
74
Incident Energy (MeV)
22-Ti-50

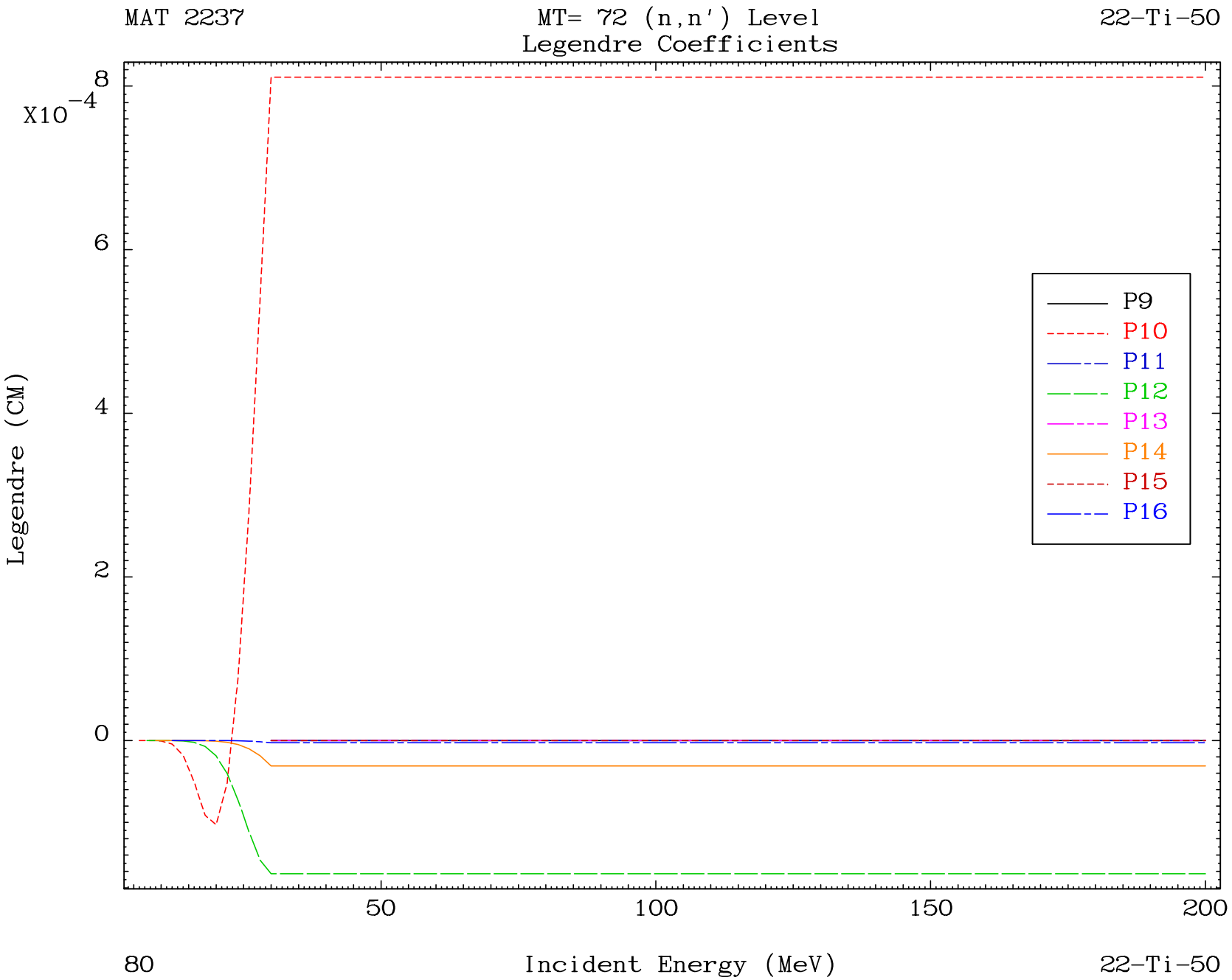

MAT 2237
MT= 70 (n,n') Level
Legendre Coefficients
22-Ti-50
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.02
0.01
0.00
-0.01
-0.02
Legendre (CM)
50
100
150
200
75
Incident Energy (MeV)
22-Ti-50

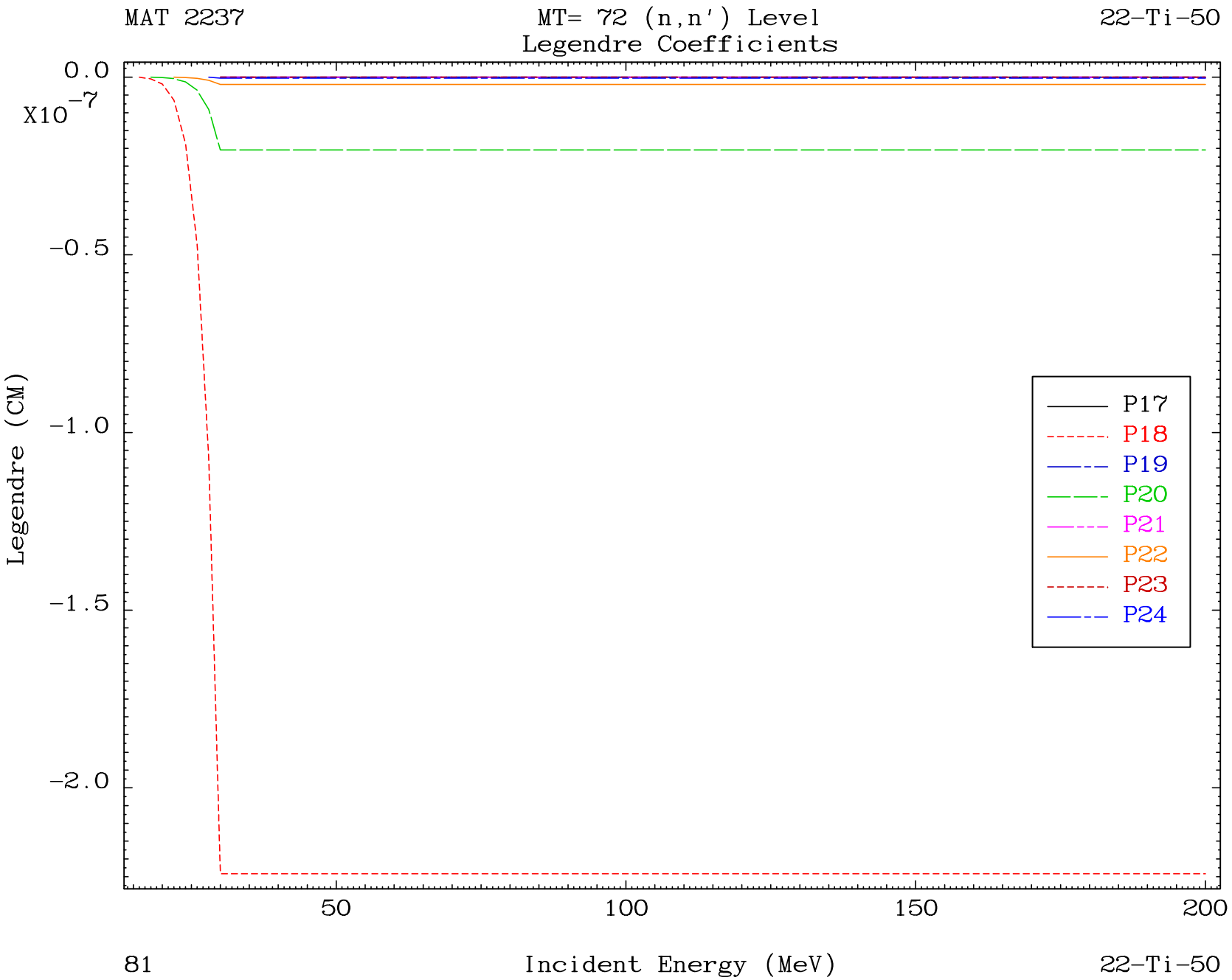

MAT 2237
MT= 70 (n,n') Level
Legendre Coefficients
22-Ti-50
0
X10^-5
-1
-2
-3
Legendre (CM)
50
100
150
200
76
Incident Energy (MeV)
22-Ti-50
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30

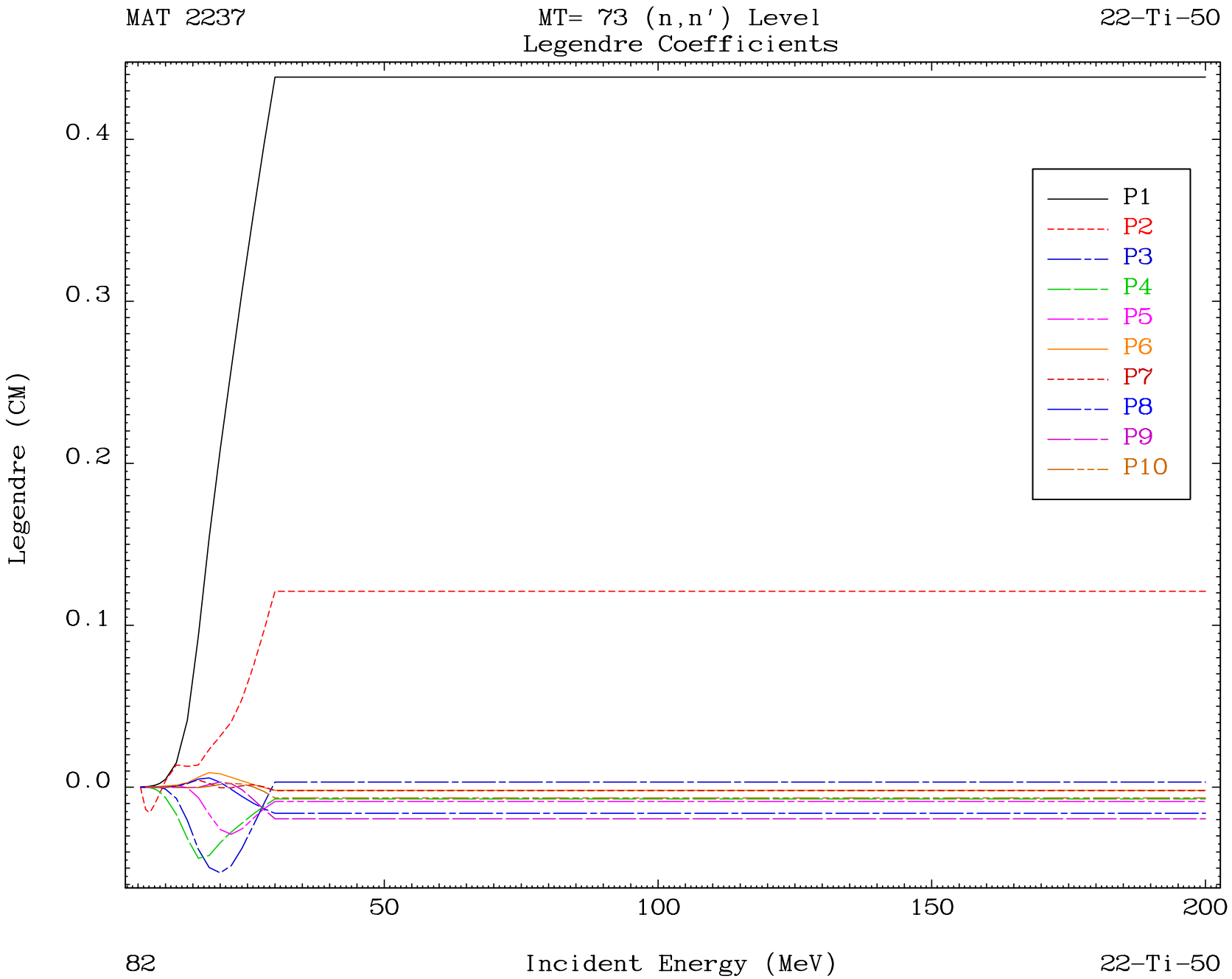

MAT 2237
MT= 71 (n,n') Level
Legendre Coefficients
22-Ti-50
0.10
0.08
0.06
0.04
0.02
0.00
-0.02
Legendre (CM)
50
100
150
200
77
Incident Energy (MeV)
22-Ti-50
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11

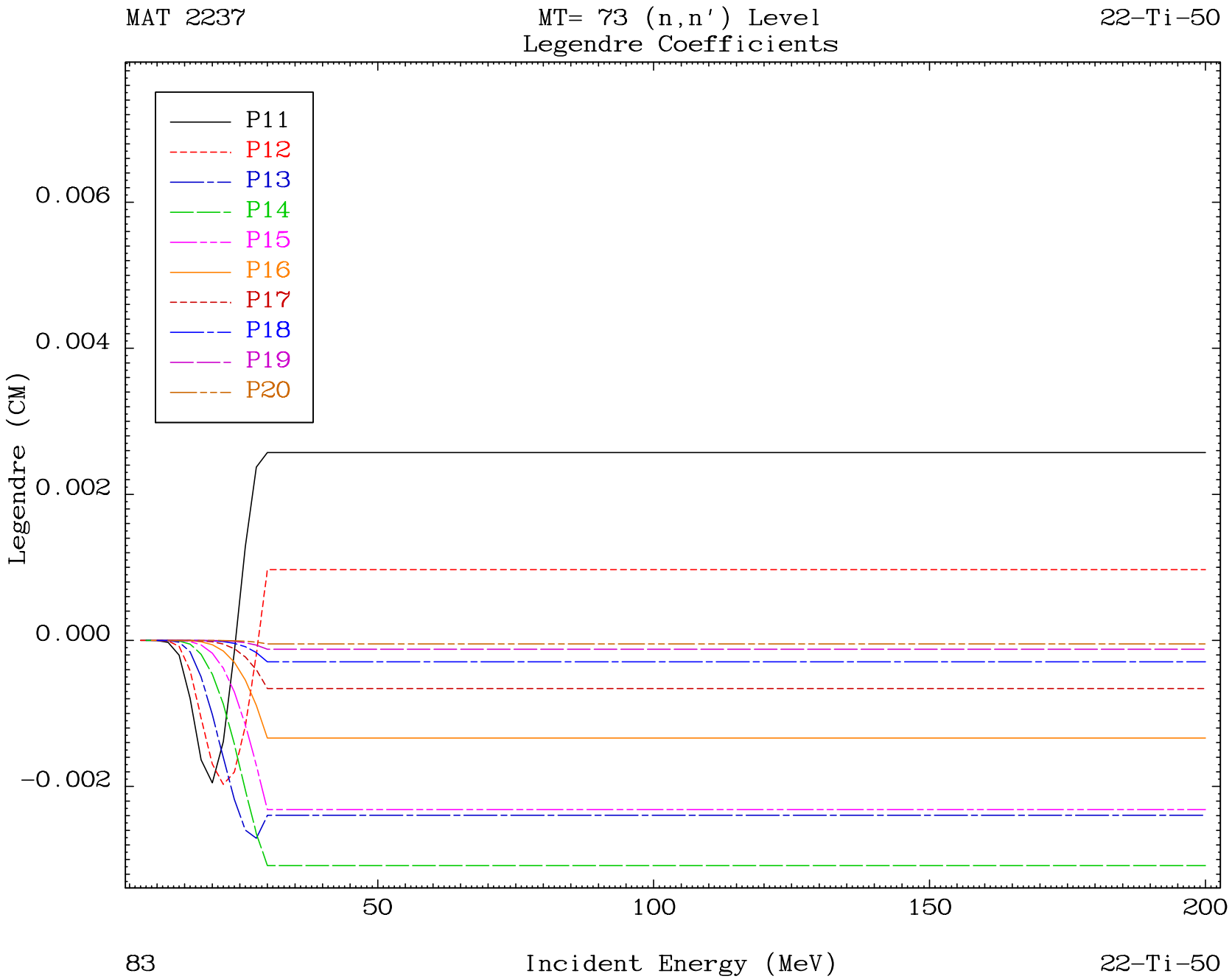

MAT 2237
MT= 71 (n,n') Level
Legendre Coefficients
22-Ti-50
X10^-4
4
3
2
1
0
Legendre (CM)
50
100
150
200
78
Incident Energy (MeV)
22-Ti-50
P12
P13
P14
P15
P16
P17
P18
P19
P20
P21
P22

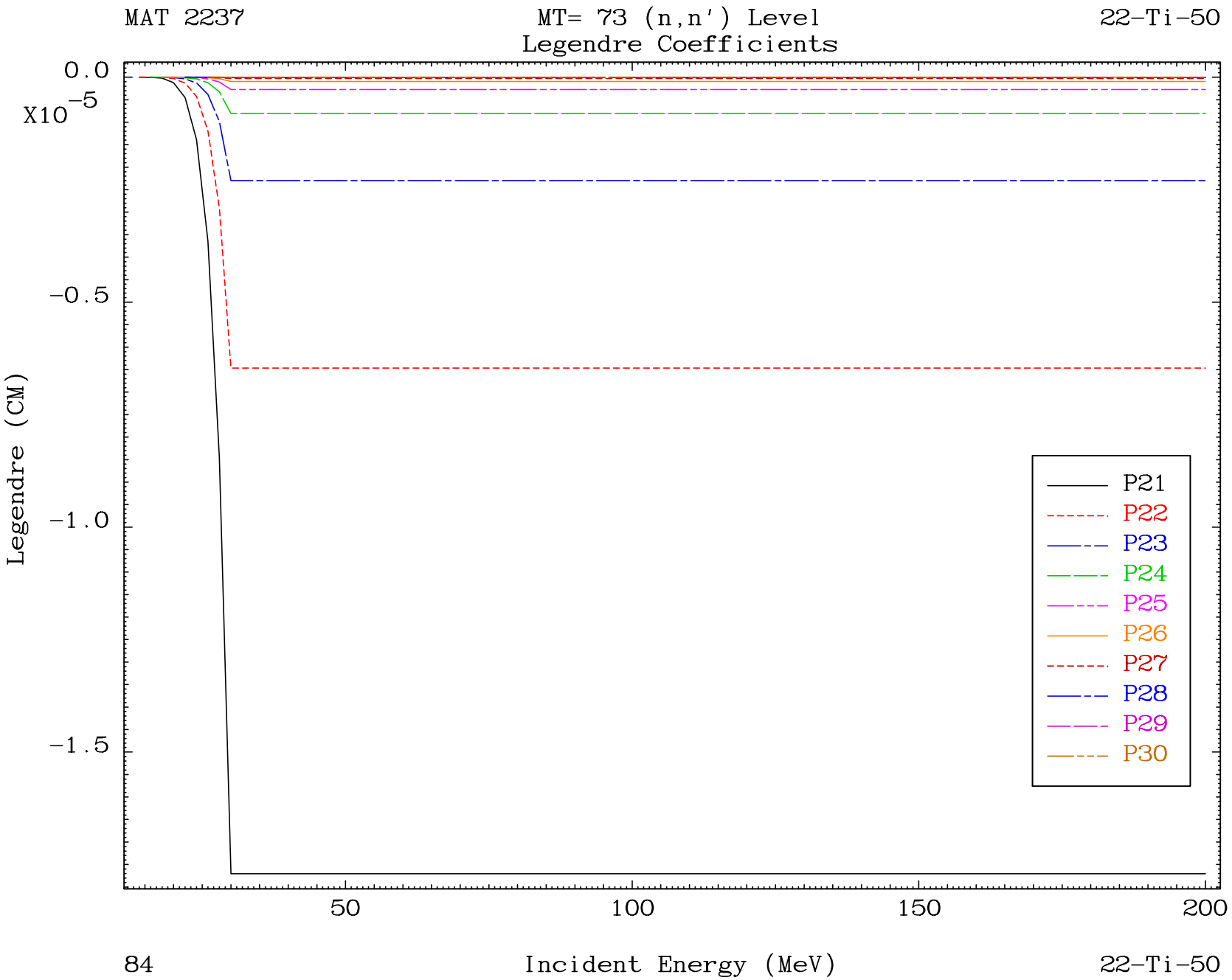

MAT 2237
MT= 72 (n,n') Level
Legendre Coefficients
22-Ti-50
0.04
0.02
0.00
-0.02
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
50
100
150
200
79
Incident Energy (MeV)
22-Ti-50

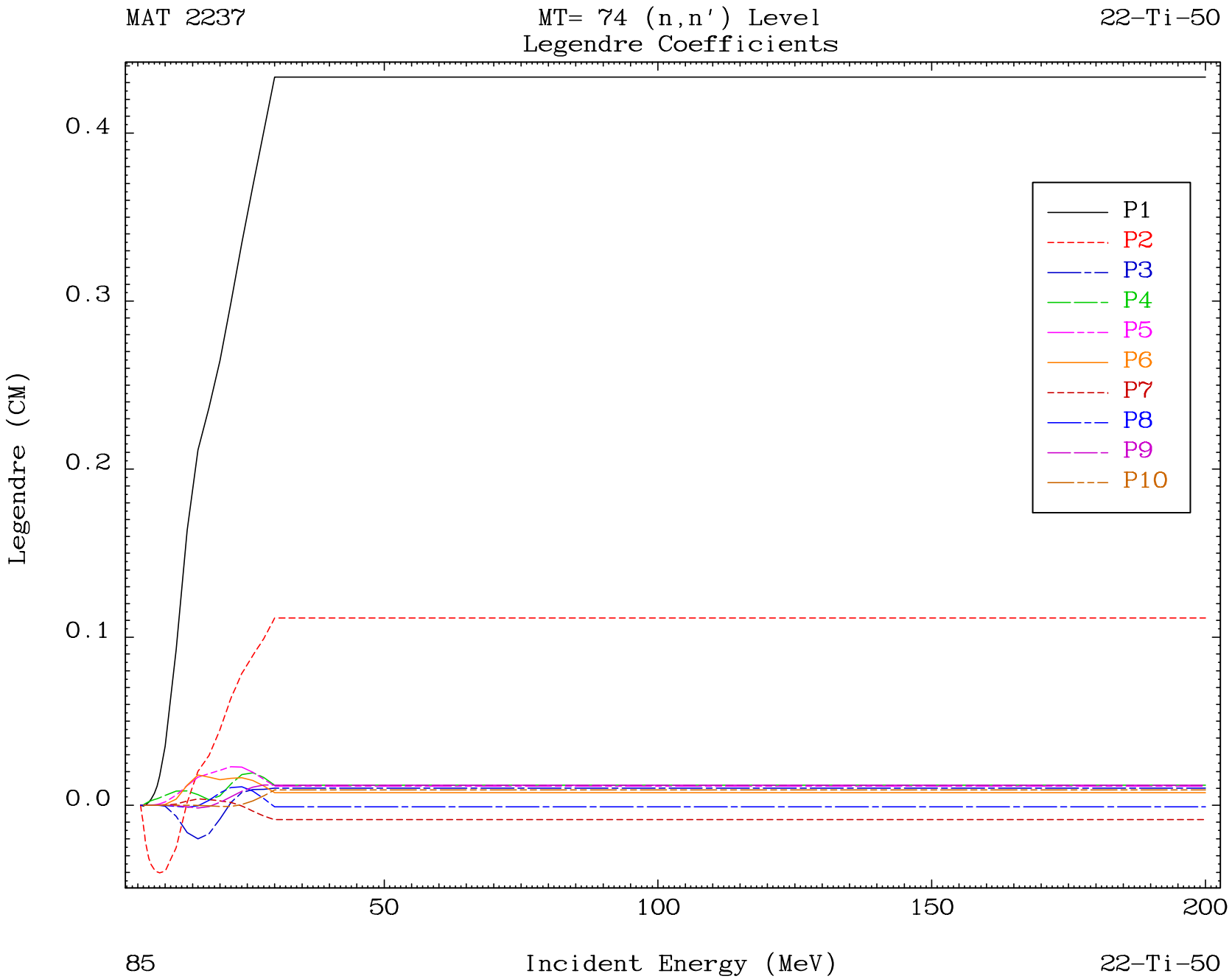

MAT 2237
MT= 72 (n,n') Level
Legendre Coefficients
22-Ti-50
X10^-4
8
6
4
2
0
Legendre (CM)
P9
P10
P11
P12
P13
P14
P15
P16
50
100
150
200
80
Incident Energy (MeV)
22-Ti-50

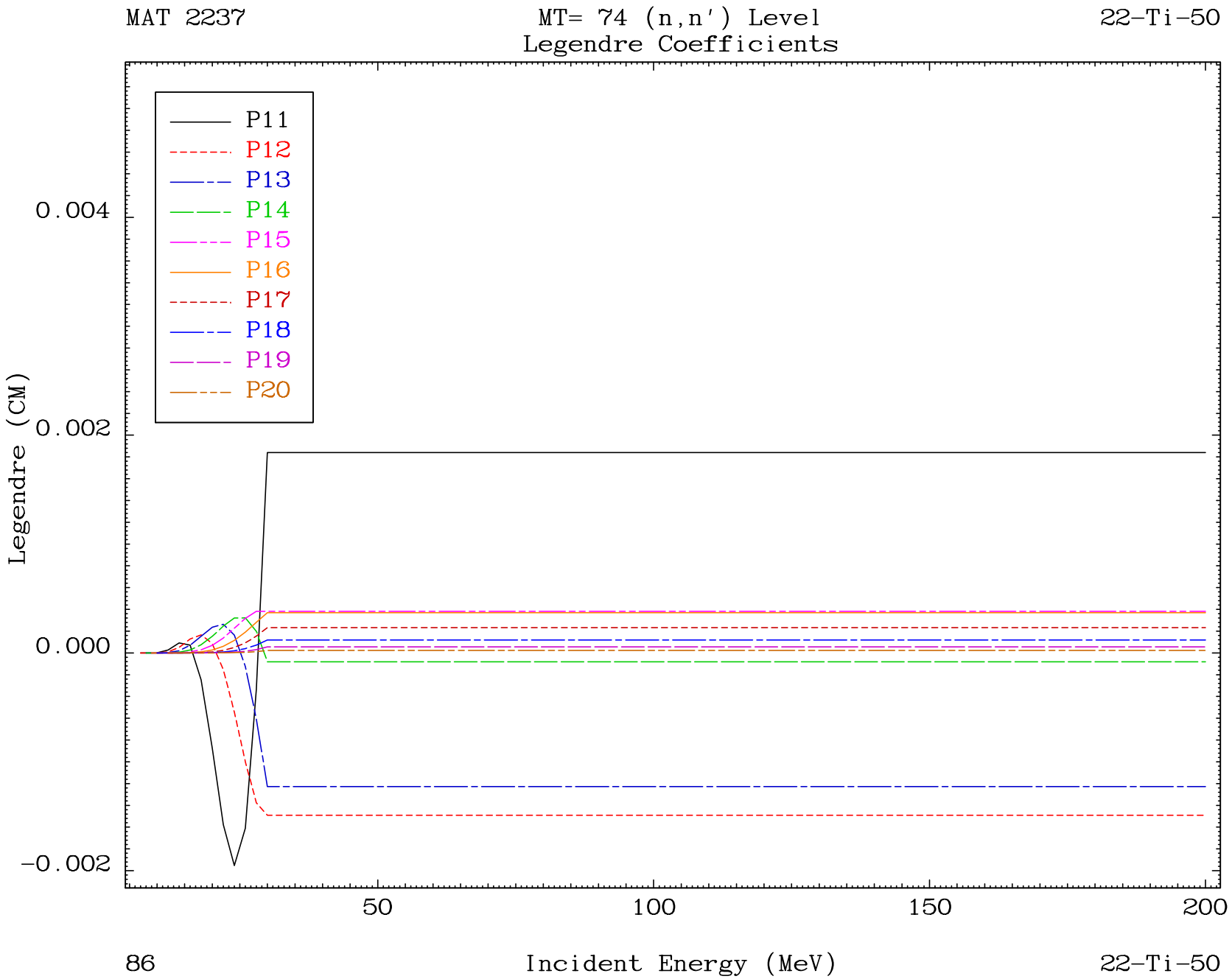

MAT 2237
MT= 72 (n,n') Level
Legendre Coefficients
22-Ti-50
0.0
X10^-7
-0.5
-1.0
-1.5
-2.0
Legendre (CM)
50
100
150
200
81
Incident Energy (MeV)
22-Ti-50
P17
P18
P19
P20
P21
P22
P23
P24

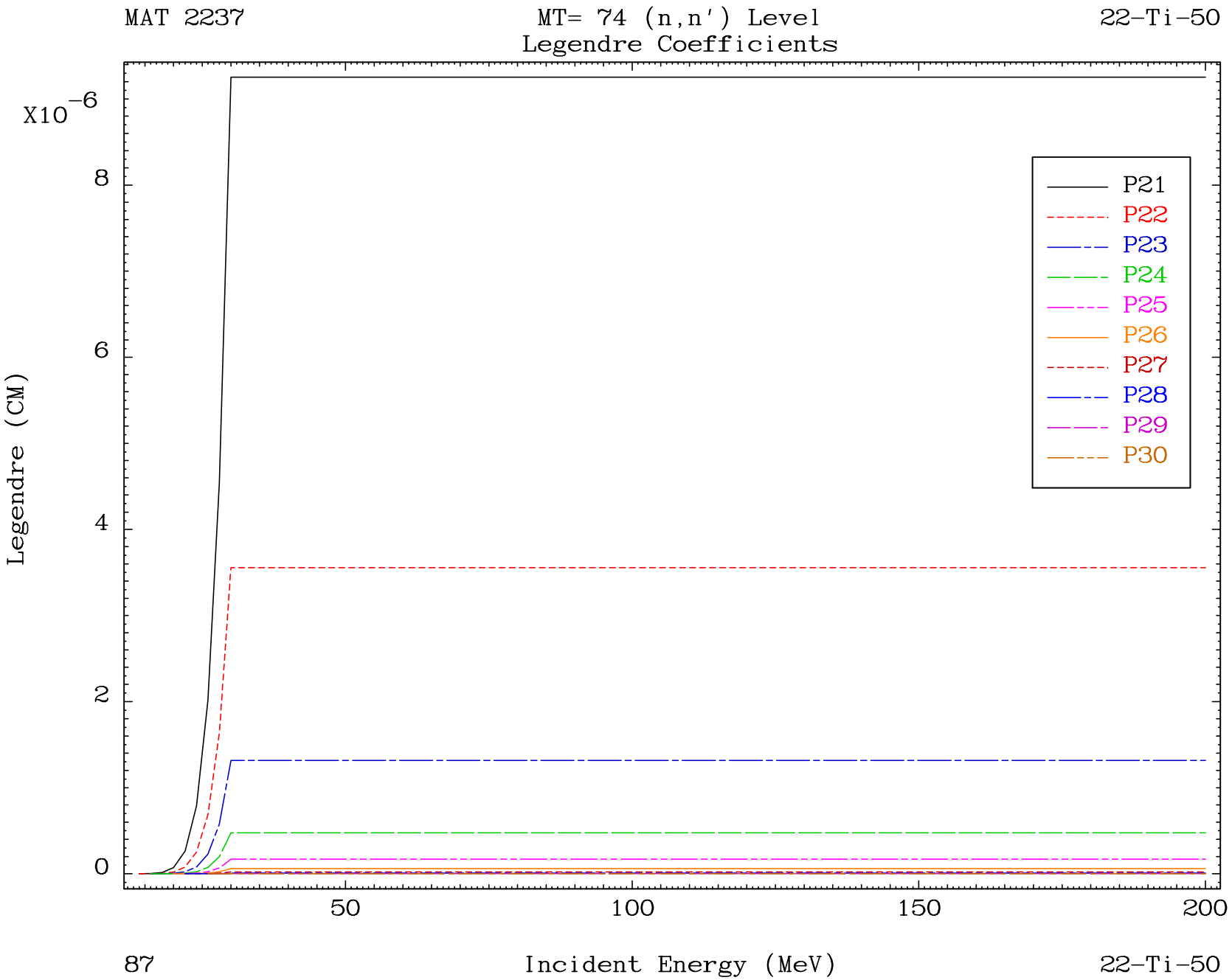

MAT 2237
MT= 73 (n,n') Level
Legendre Coefficients
22-Ti-50
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
50
100
150
200
82
Incident Energy (MeV)
22-Ti-50
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10

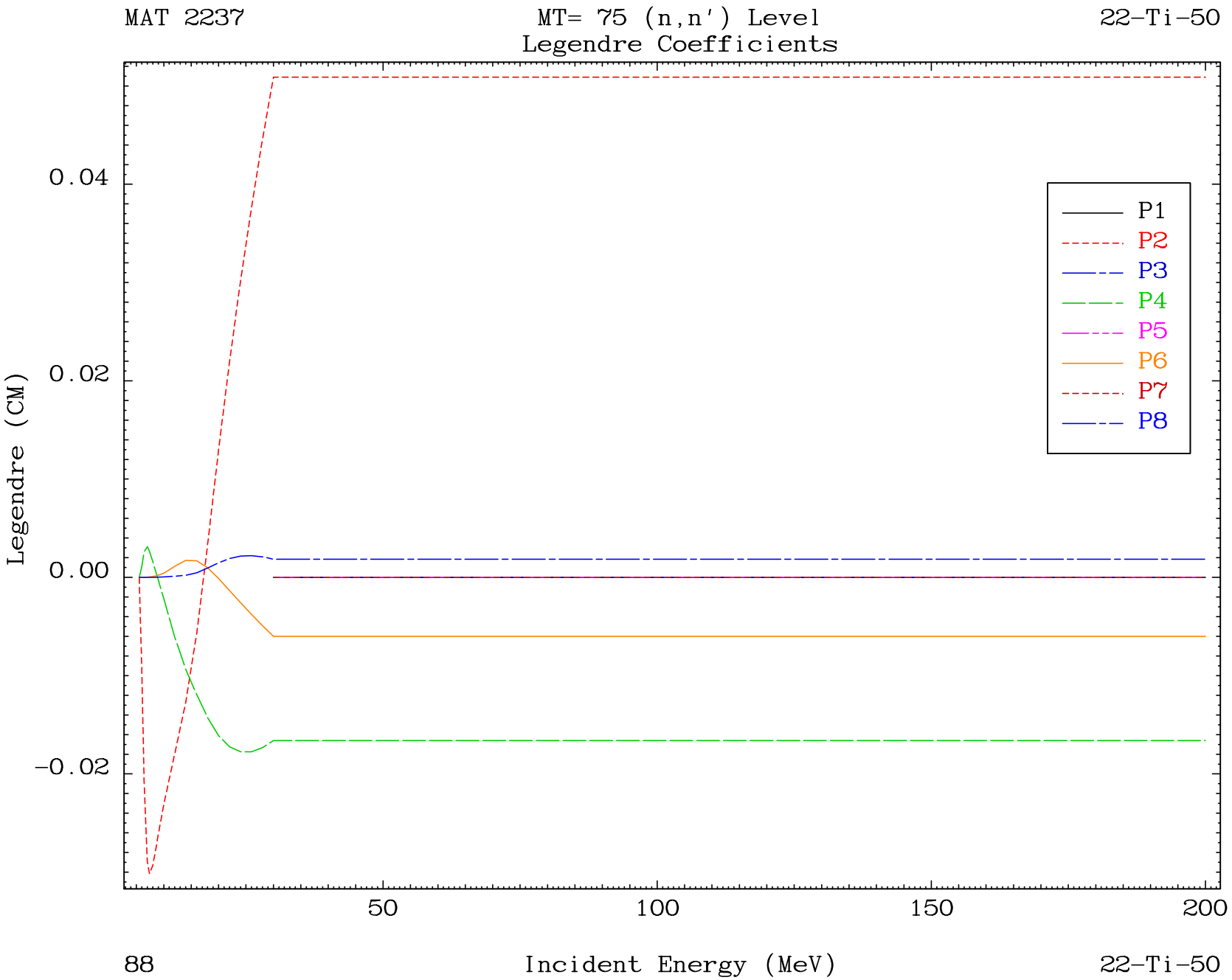

MAT 2237
MT= 73 (n,n') Level
Legendre Coefficients
22-Ti-50
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.006
0.004
0.002
0.000
-0.002
Legendre (CM)
50
100
150
200
83
Incident Energy (MeV)
22-Ti-50

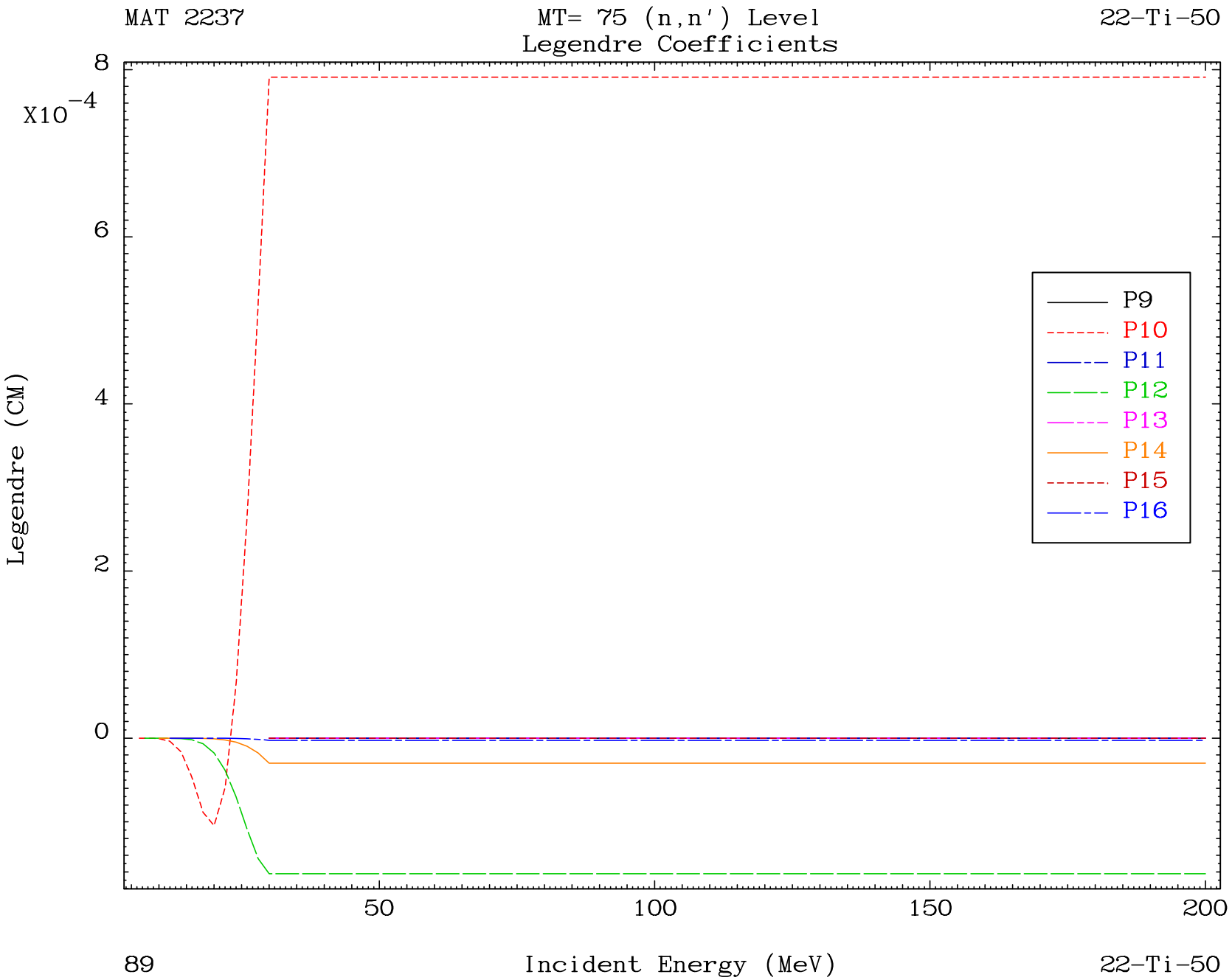

MAT 2237
MT= 73 (n,n') Level
Legendre Coefficients
22-Ti-50
0.0
X10^-5
-0.5
-1.0
-1.5
Legendre (CM)
50
100
150
200
84
Incident Energy (MeV)
22-Ti-50
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30

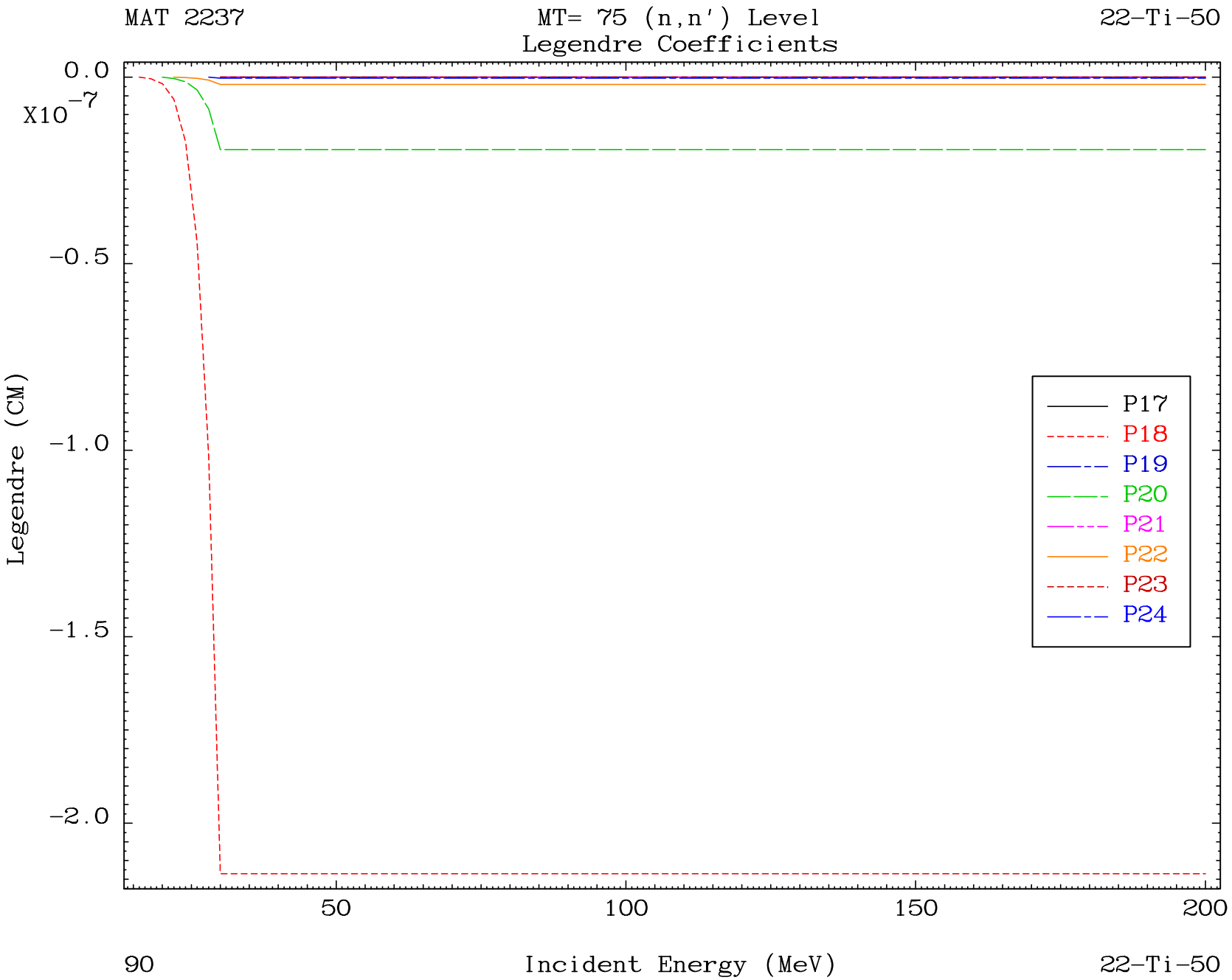

MAT 2237
MT= 74 (n,n') Level
Legendre Coefficients
22-Ti-50
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
85
Incident Energy (MeV)
22-Ti-50

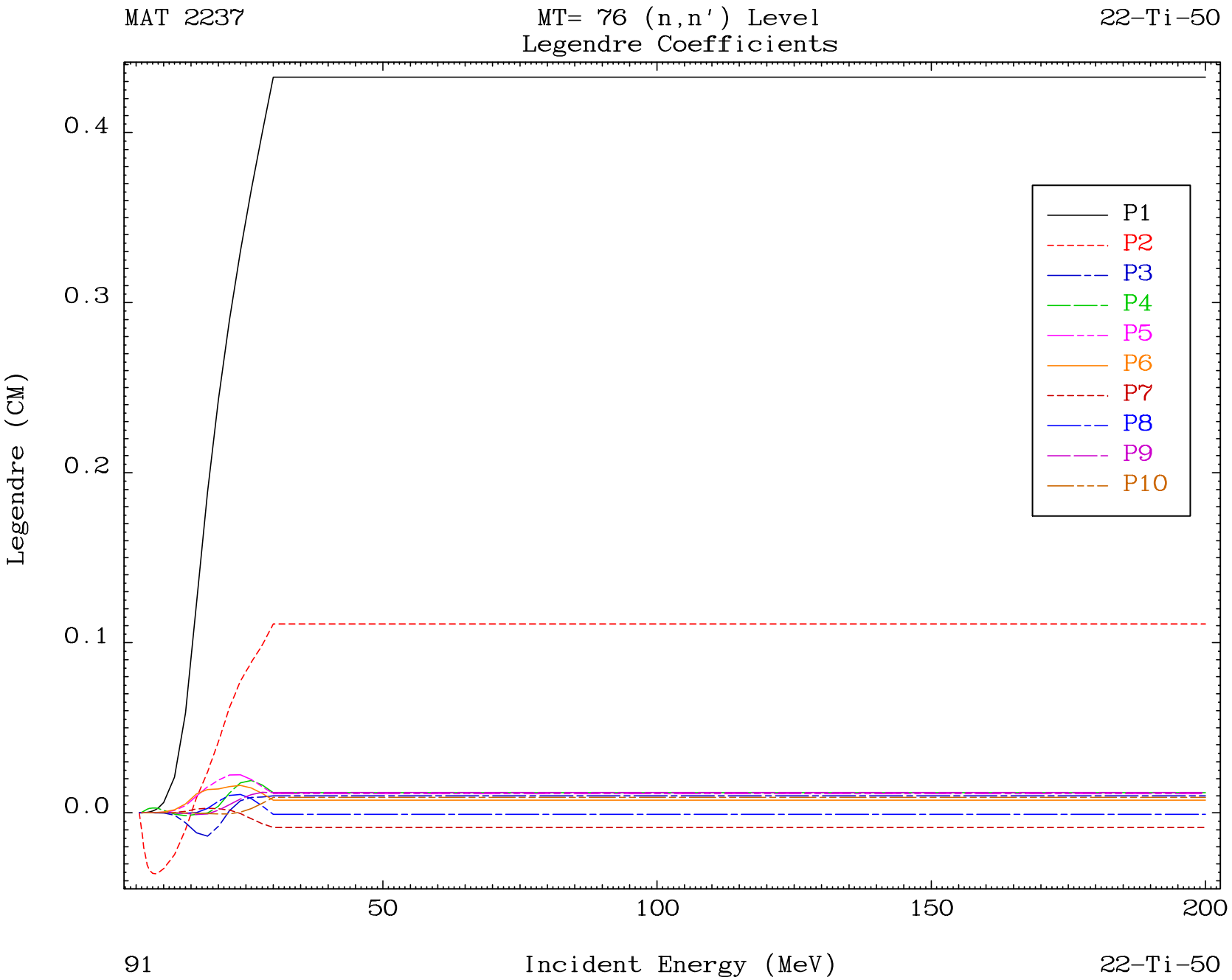

MAT 2237
MT= 74 (n,n') Level
Legendre Coefficients
22-Ti-50
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.004
0.002
0.000
-0.002
Legendre (CM)
50
100
150
200
86
Incident Energy (MeV)
22-Ti-50

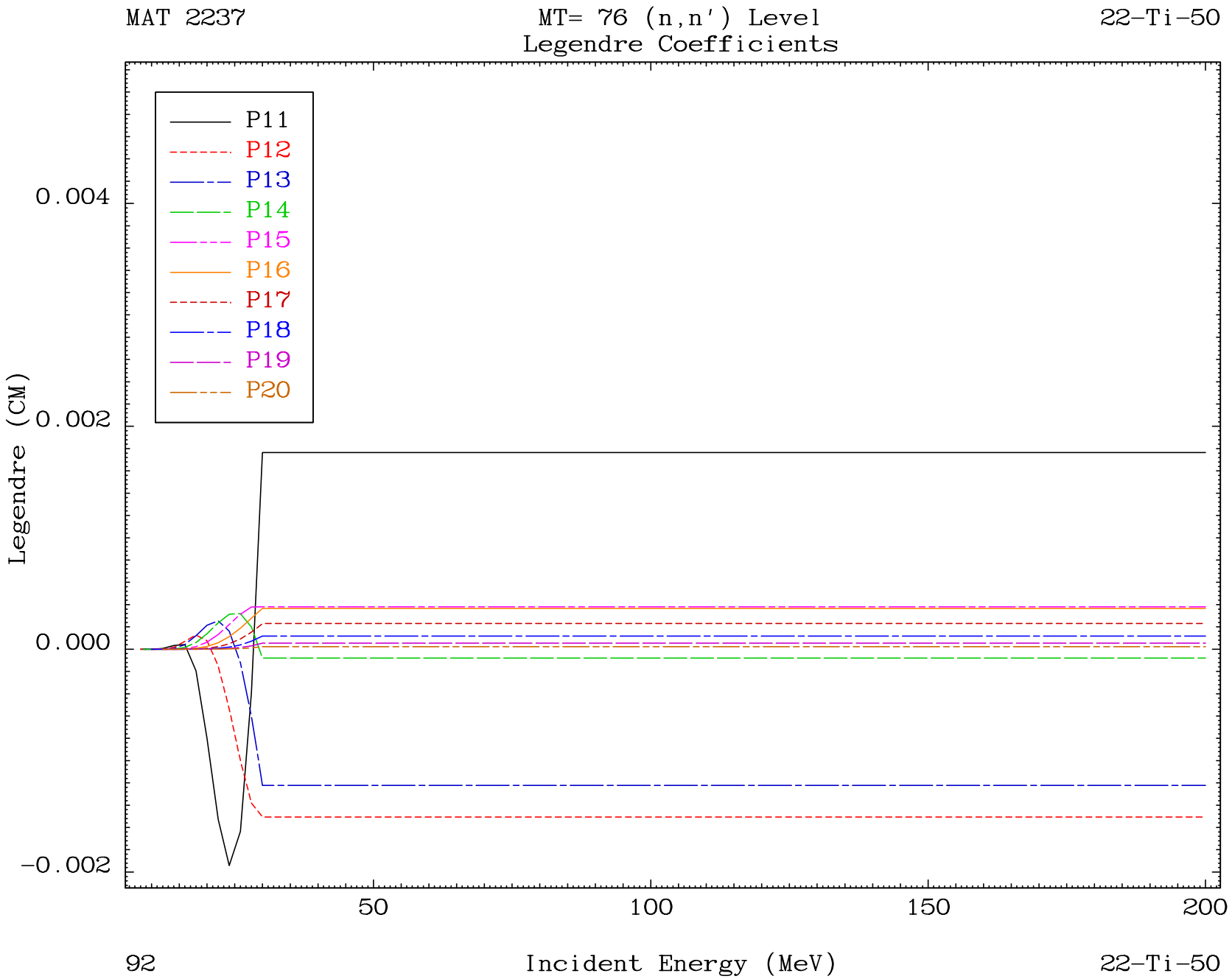

MAT 2237
MT= 74 (n,n') Level
Legendre Coefficients
22-Ti-50
X10^-6
8
6
4
2
0
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
50
100
150
200
87
Incident Energy (MeV)
22-Ti-50

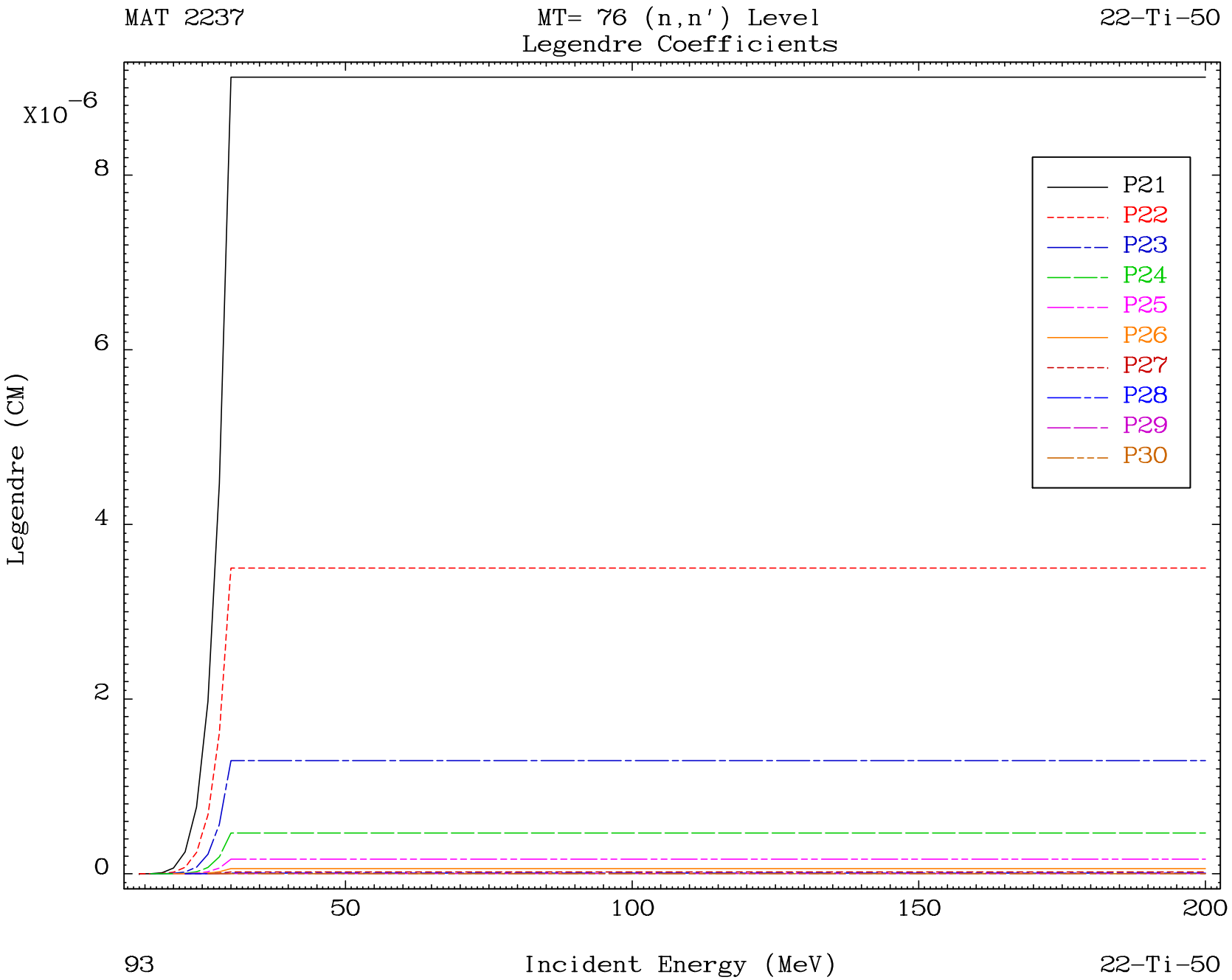

MAT 2237
MT= 75 (n,n') Level
Legendre Coefficients
22-Ti-50
0.04
0.02
0.00
-0.02
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
50
100
150
200
88
Incident Energy (MeV)
22-Ti-50

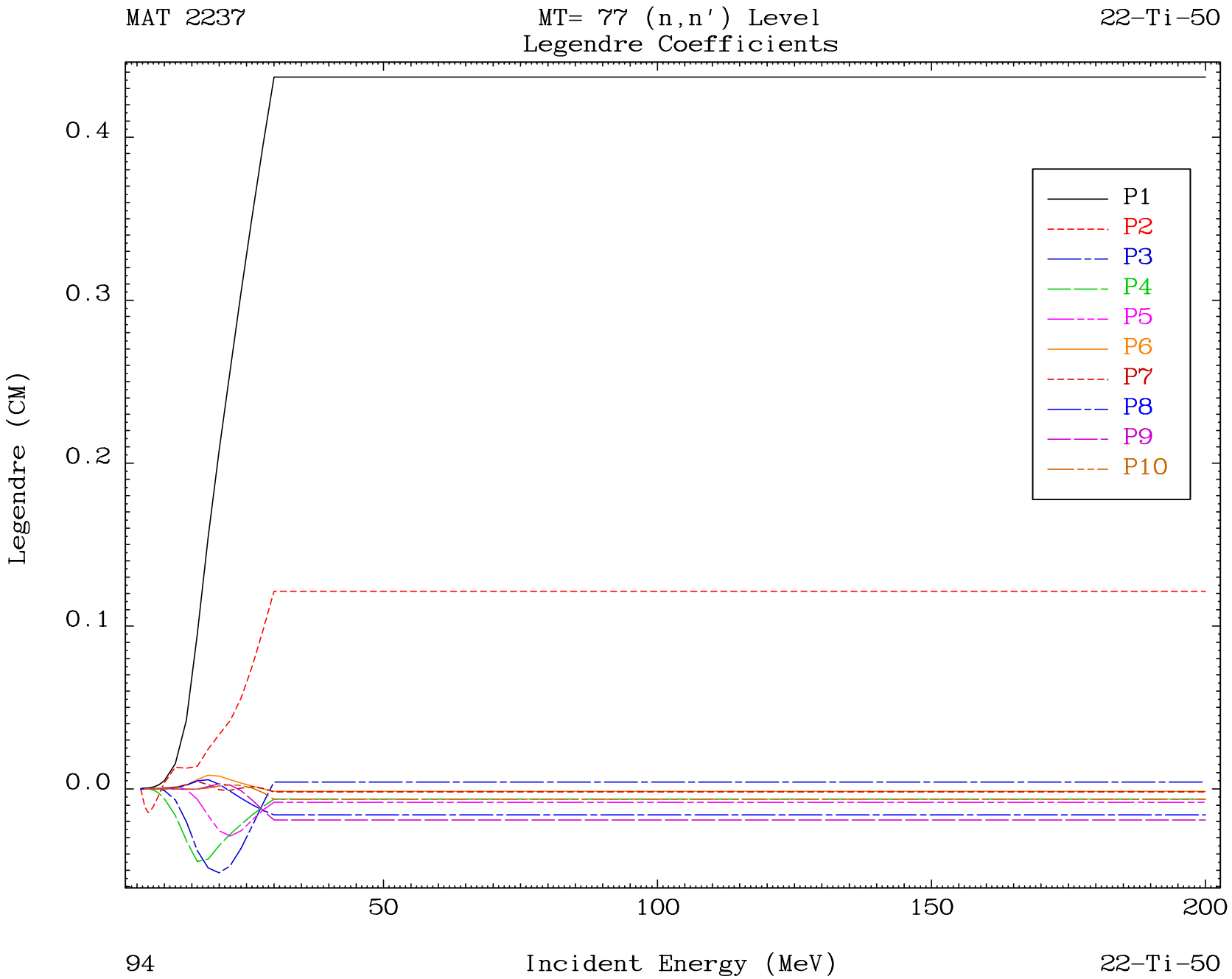

MAT 2237
MT= 75 (n,n') Level
Legendre Coefficients
22-Ti-50
X10^-4
8
6
4
2
0
Legendre (CM)
50
100
150
200
89
Incident Energy (MeV)
22-Ti-50
P9
P10
P11
P12
P13
P14
P15
P16

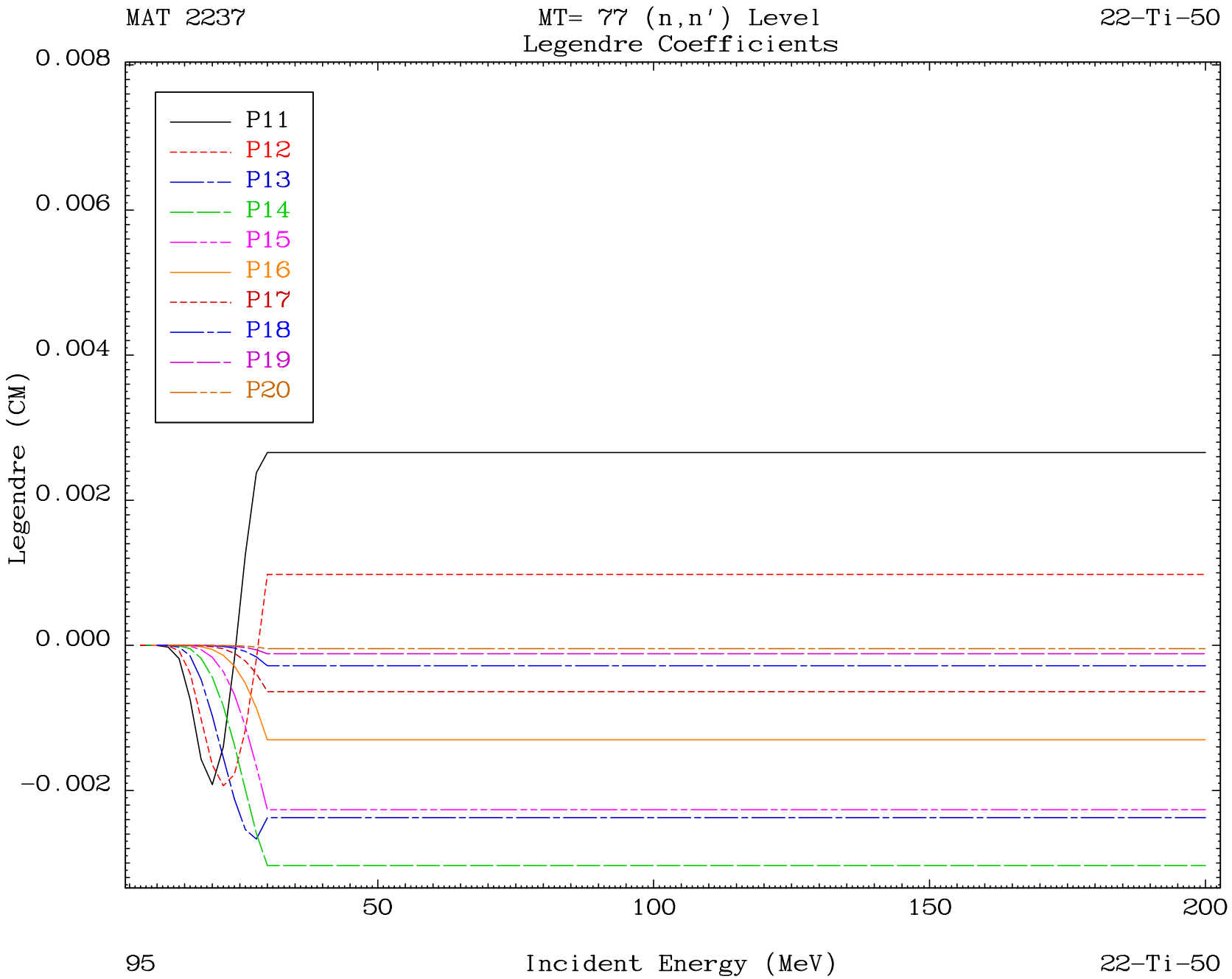

MAT 2237
MT= 75 (n,n') Level
Legendre Coefficients
22-Ti-50
0.0
X10-7
-0.5
-1.0
-1.5
-2.0
Legendre (CM)
50
100
150
200
90
Incident Energy (MeV)
22-Ti-50
P17
P18
P19
P20
P21
P22
P23
P24

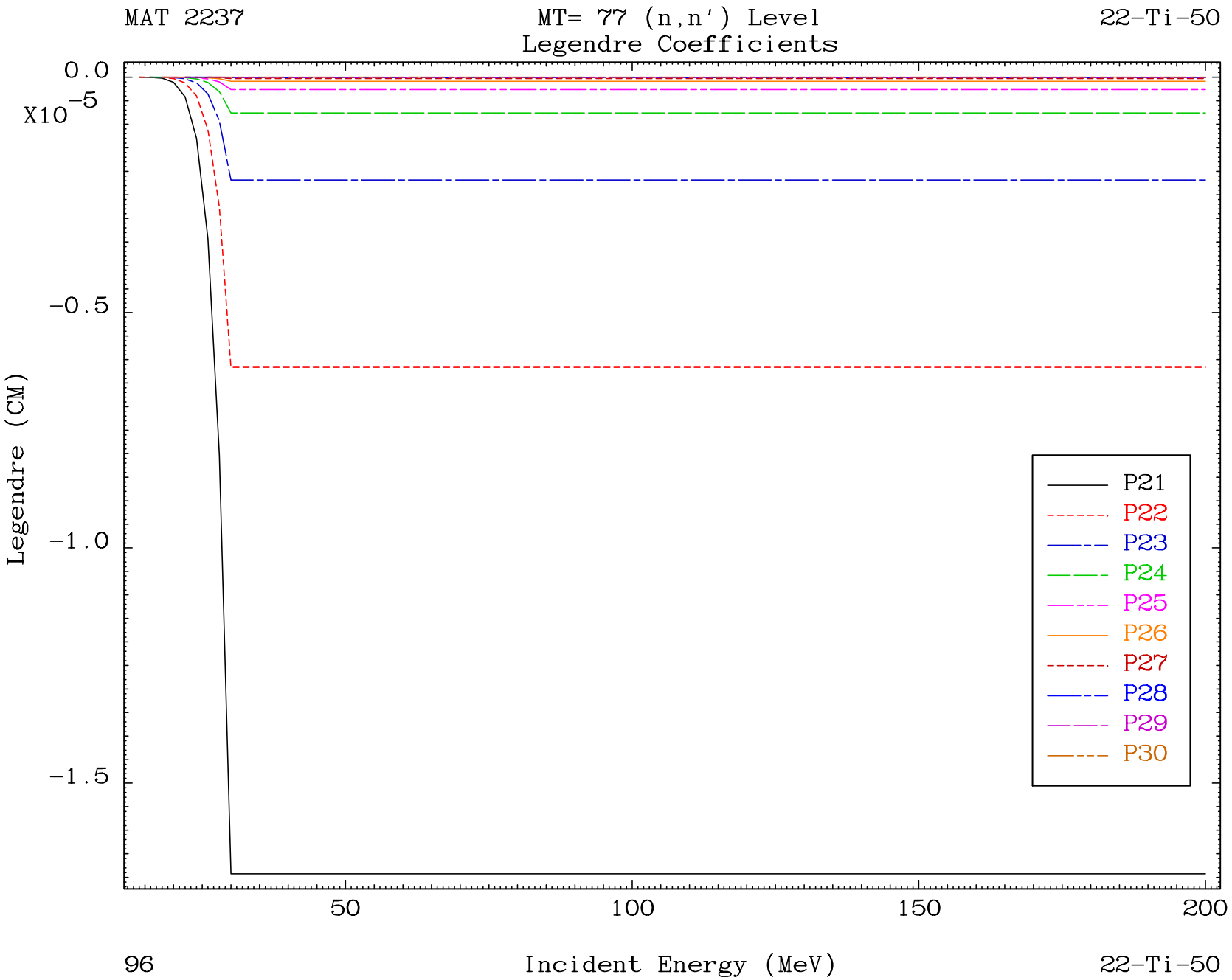

MAT 2237
MT= 76 (n,n') Level
Legendre Coefficients
22-Ti-50
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
91
Incident Energy (MeV)
22-Ti-50

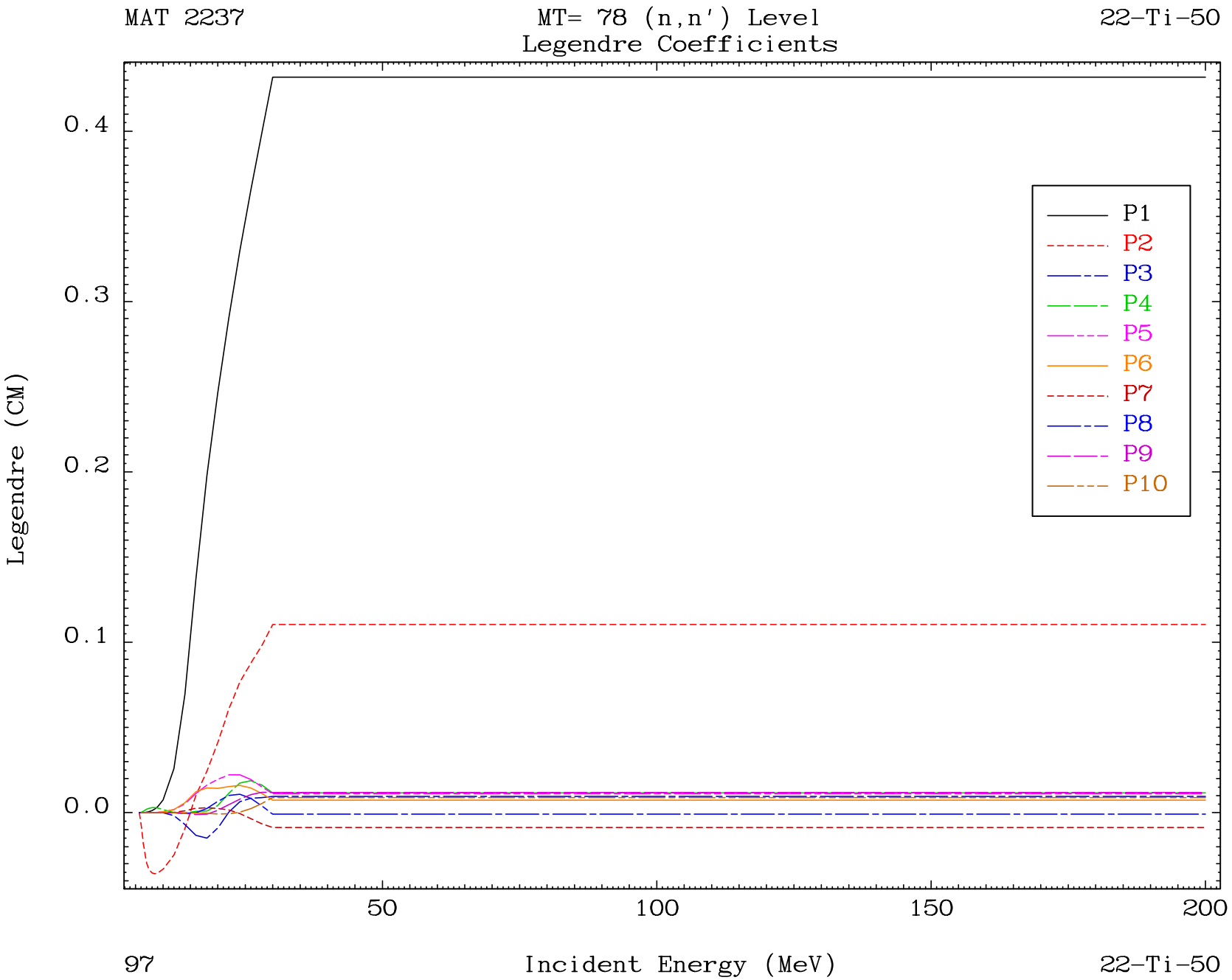

MAT 2237
MT= 76 (n,n') Level
Legendre Coefficients
22-Ti-50
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.004
0.002
0.000
-0.002
Legendre (CM)
50
100
150
200
92
Incident Energy (MeV)
22-Ti-50

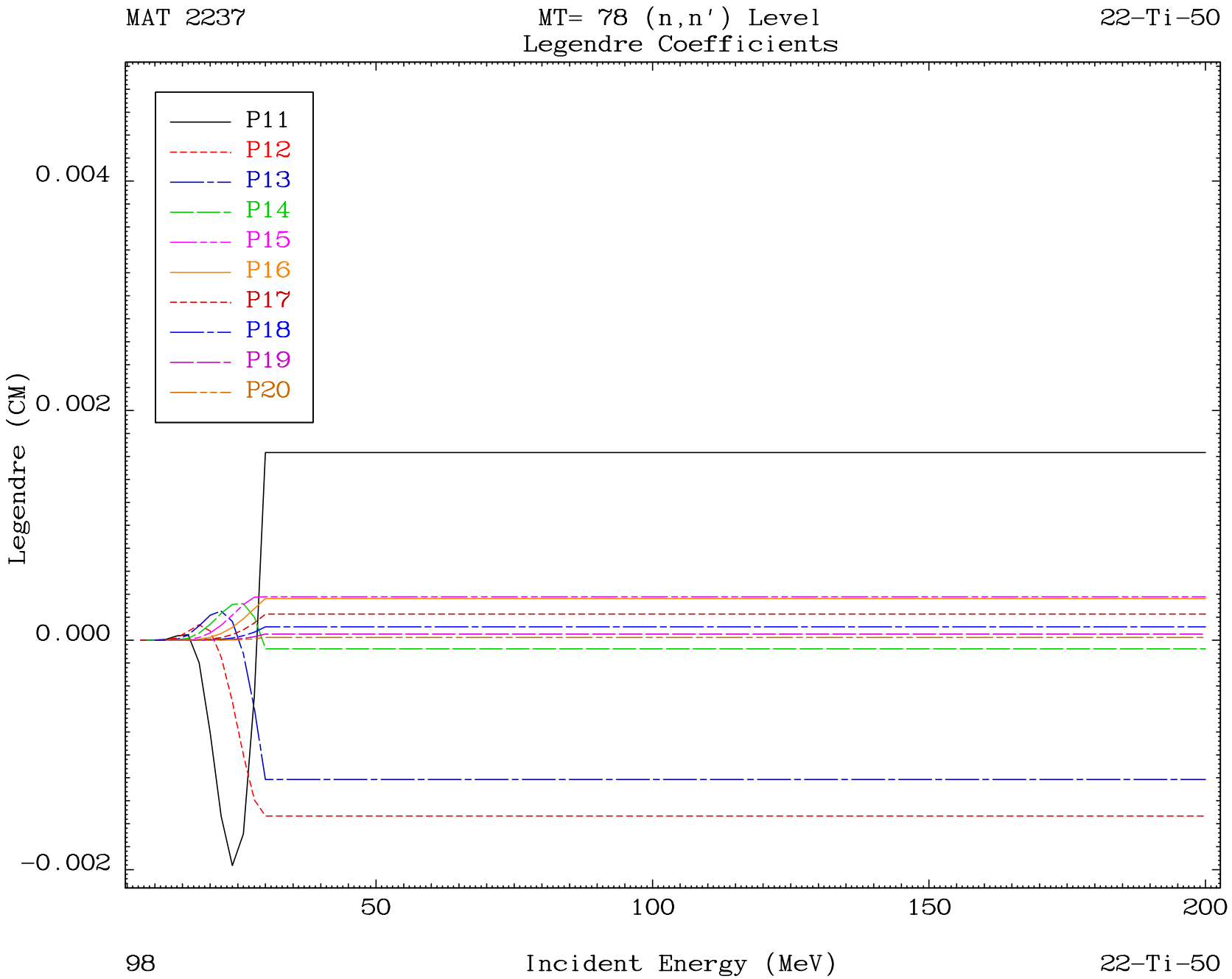

MAT 2237
MT= 76 (n,n') Level
Legendre Coefficients
22-Ti-50
X10^-6
8
6
4
2
0
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
50
100
150
200
93
Incident Energy (MeV)
22-Ti-50

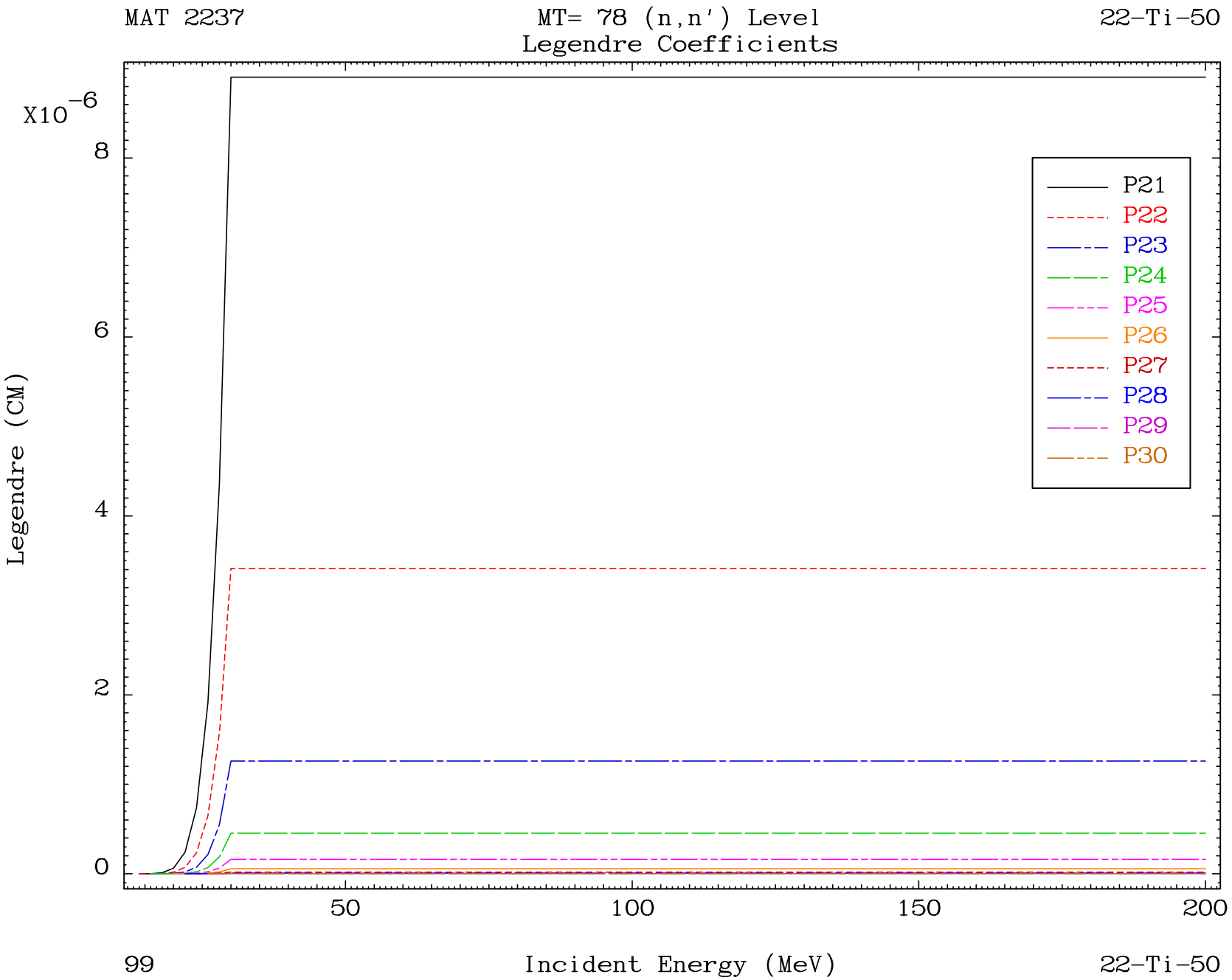

MAT 2237
MT= 77 (n,n') Level
Legendre Coefficients
22-Ti-50
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
94
Incident Energy (MeV)
22-Ti-50

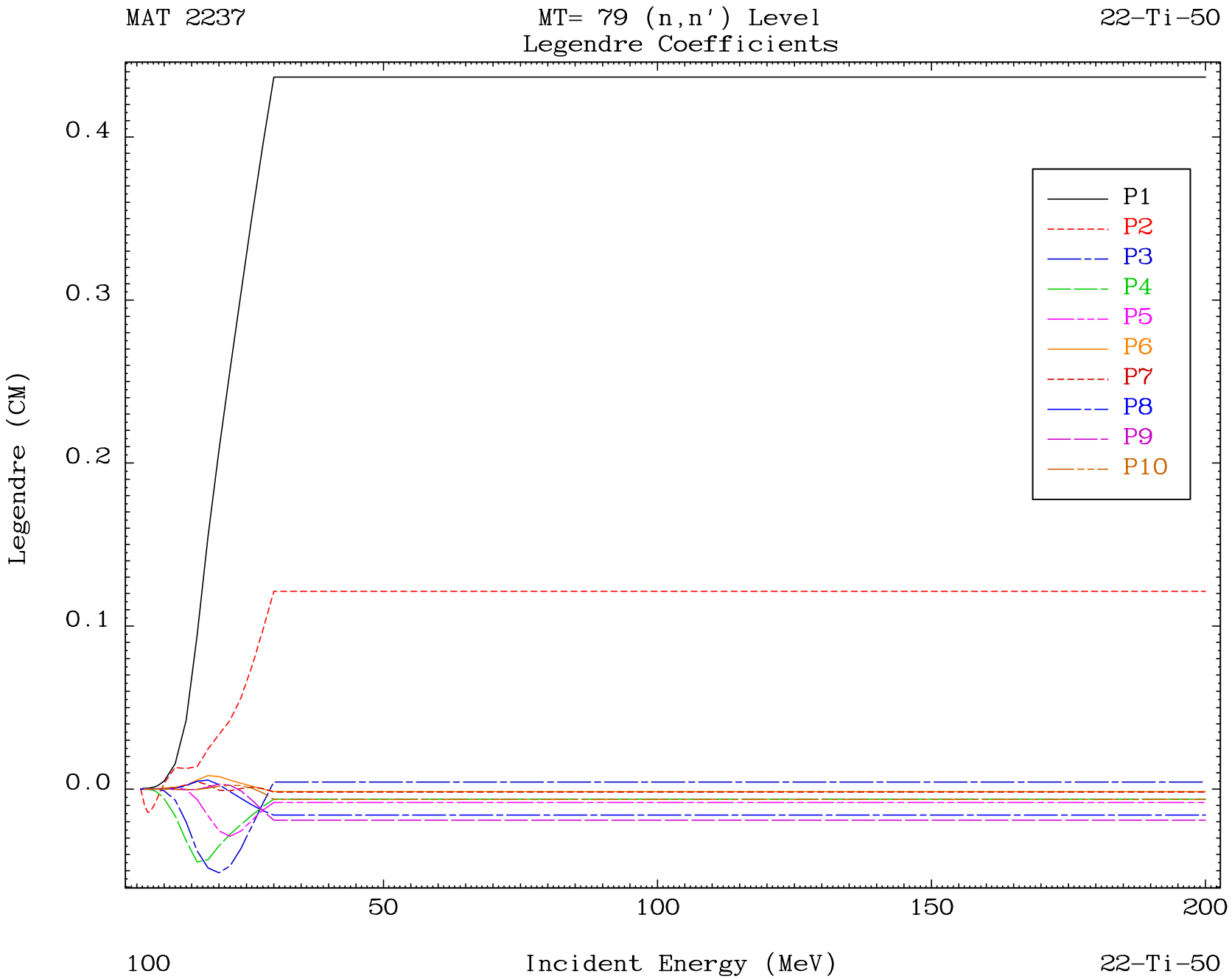

MAT 2237
MT= 77 (n,n') Level
Legendre Coefficients
22-Ti-50
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.008
0.006
0.004
0.002
0.000
-0.002
Legendre (CM)
50
100
150
200
95
Incident Energy (MeV)
22-Ti-50

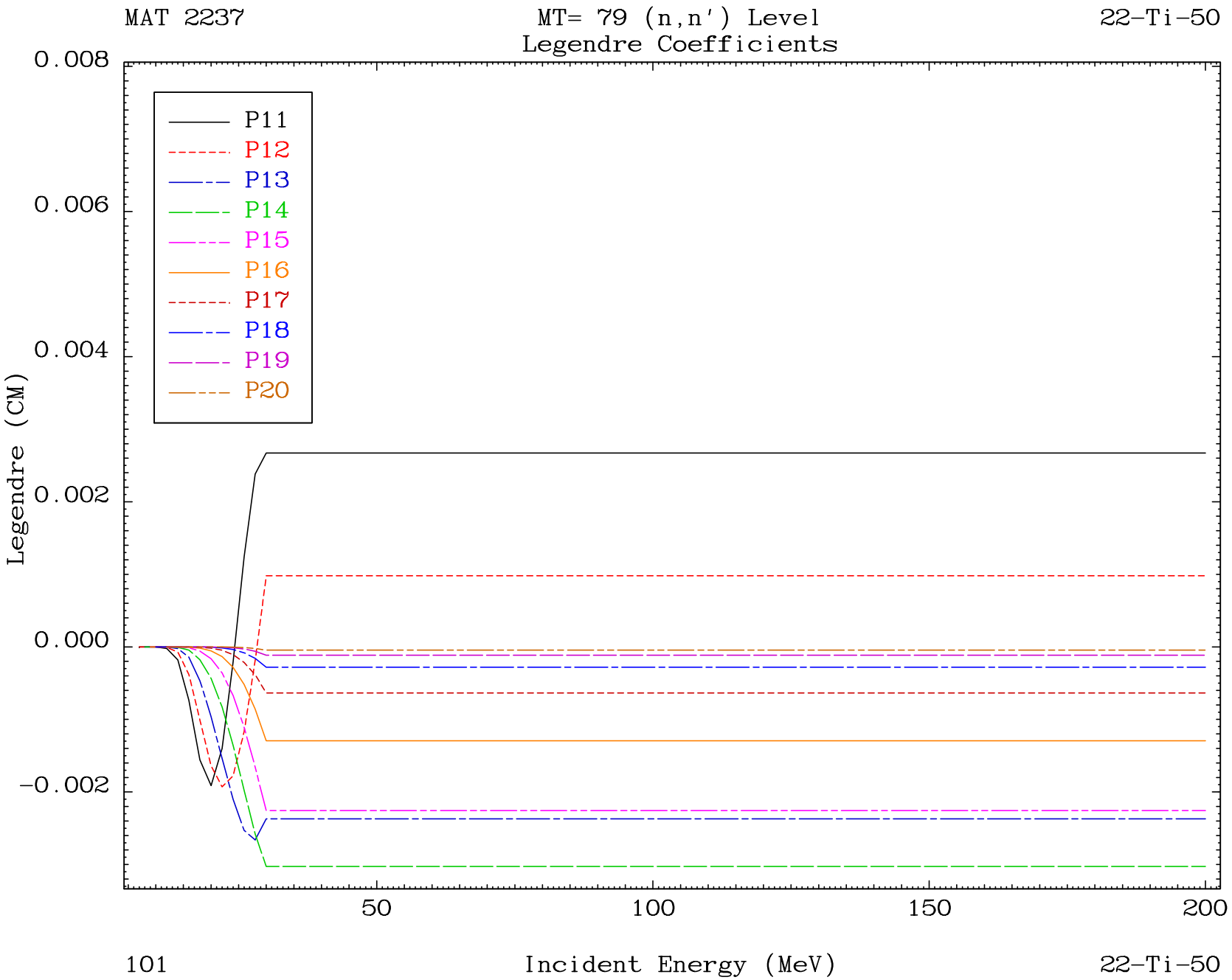

MAT 2237
MT= 77 (n,n') Level
Legendre Coefficients
22-Ti-50
0.0
X10^-5
-0.5
-1.0
-1.5
Legendre (CM)
50
100
150
200
96
Incident Energy (MeV)
22-Ti-50
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30

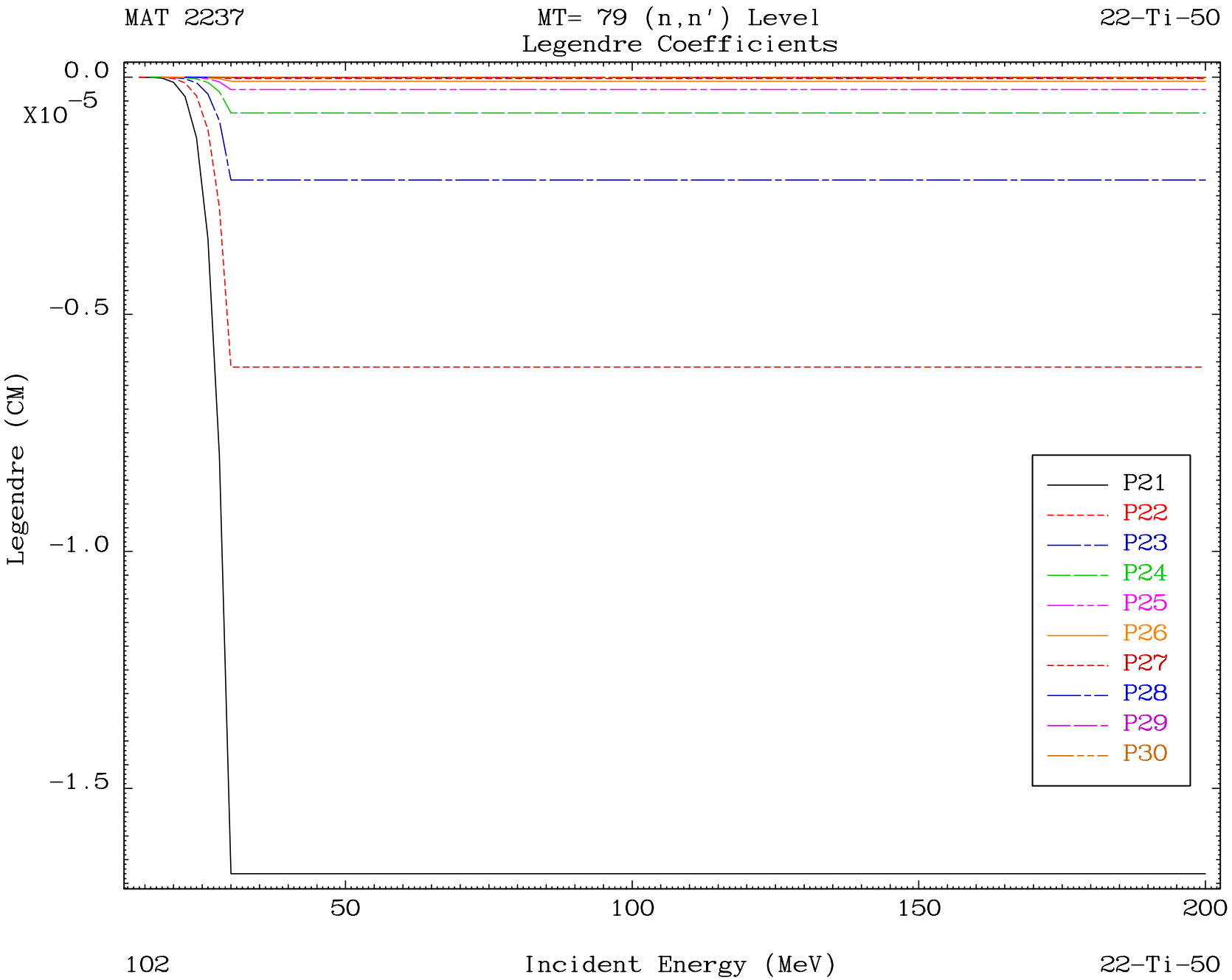

MAT 2237
MT= 78 (n,n') Level
Legendre Coefficients
22-Ti-50
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
50
100
150
200
97
Incident Energy (MeV)
22-Ti-50
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10

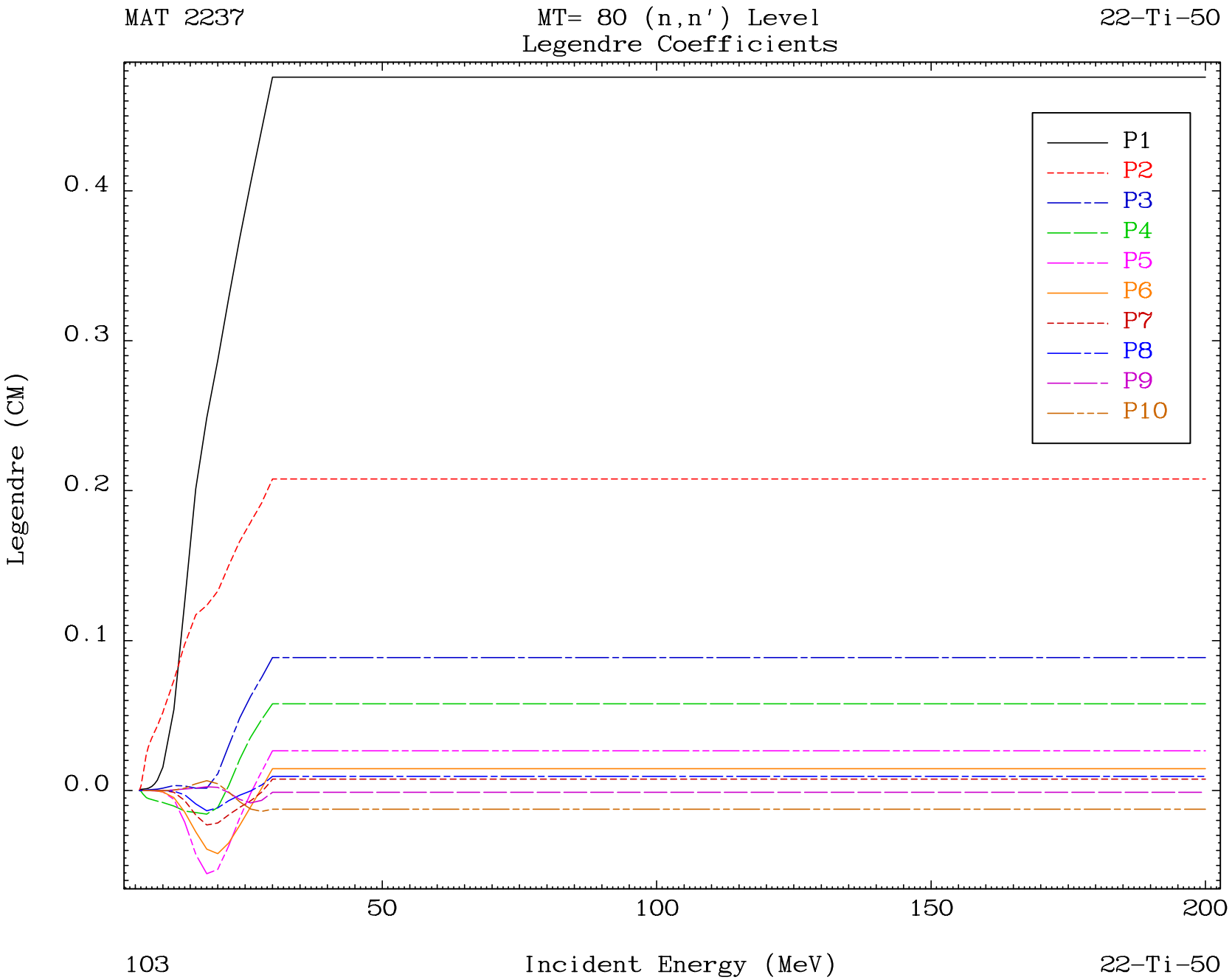

MAT 2237
MT= 78 (n,n') Level
Legendre Coefficients
22-Ti-50
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.004
0.002
0.000
-0.002
Legendre (CM)
50
100
150
200
98
Incident Energy (MeV)
22-Ti-50

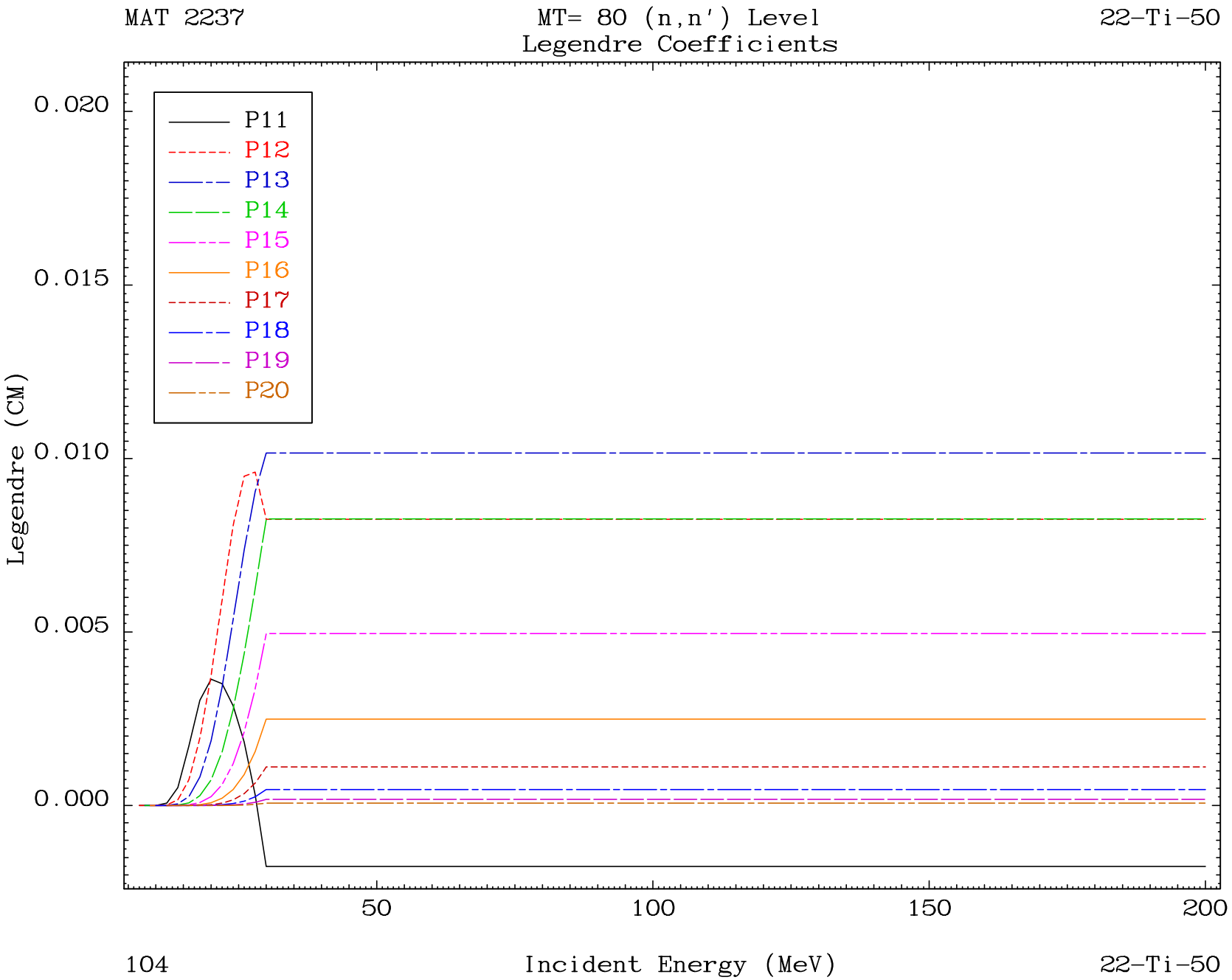

MAT 2237
MT= 78 (n,n') Level
Legendre Coefficients
22-Ti-50
X10^-6
8
6
4
2
0
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
50
100
150
200
99
Incident Energy (MeV)
22-Ti-50

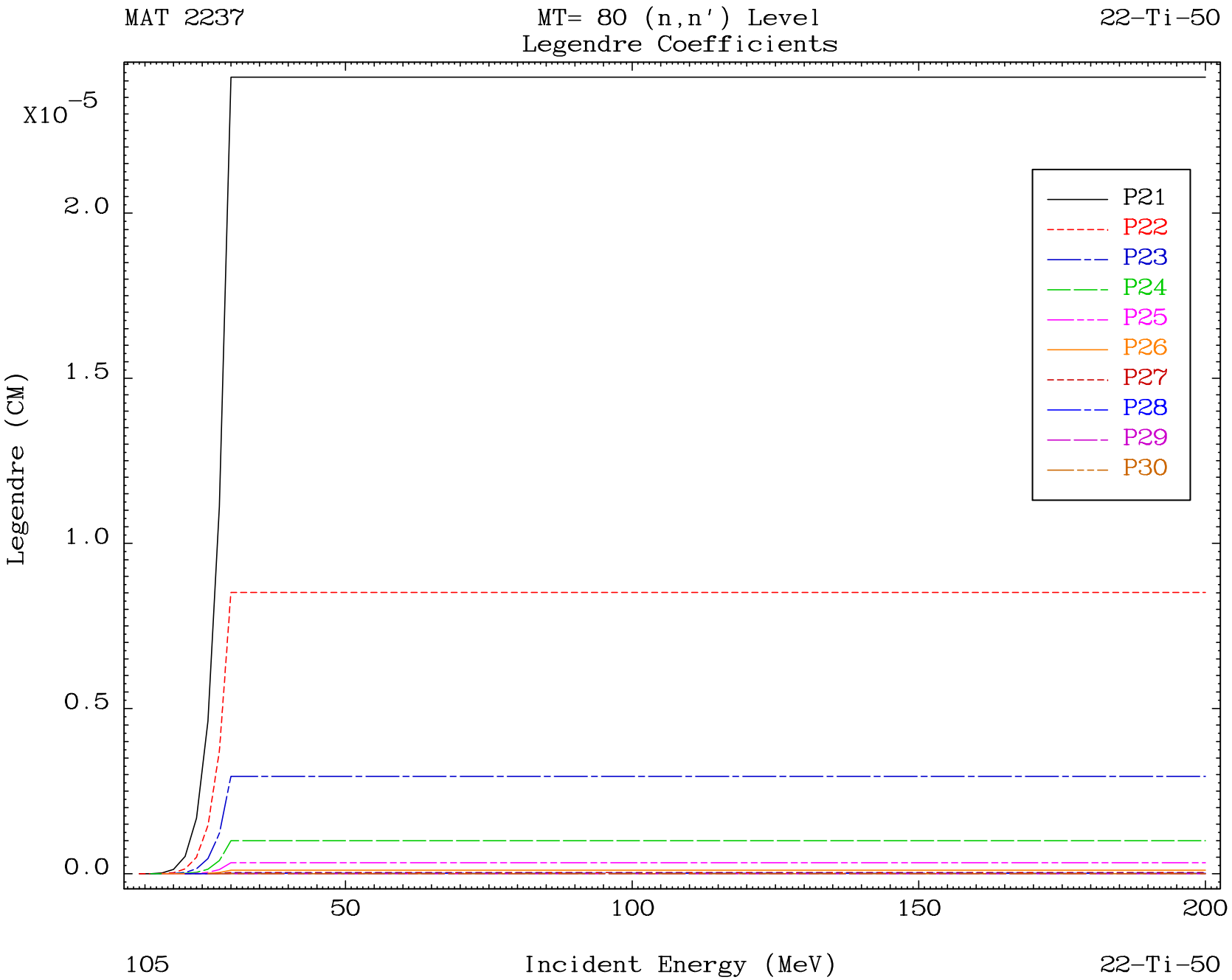

MAT 2237
MT= 79 (n,n') Level
Legendre Coefficients
22-Ti-50
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
100
Incident Energy (MeV)
22-Ti-50

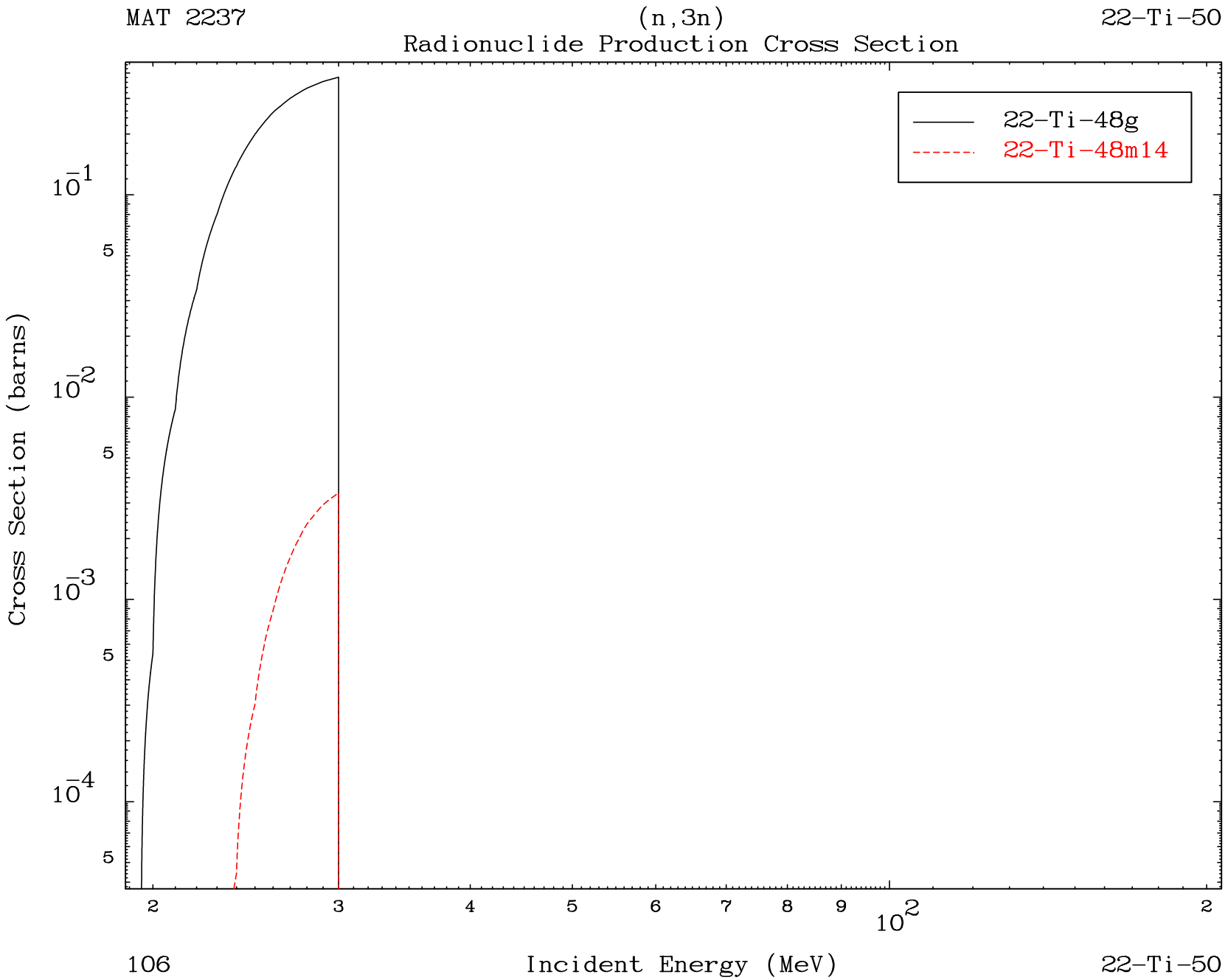

MAT 2237
MT= 79 (n,n') Level
Legendre Coefficients
22-Ti-50
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.008
0.006
0.004
0.002
0.000
-0.002
Legendre (CM)
50
100
150
200
101
Incident Energy (MeV)
22-Ti-50

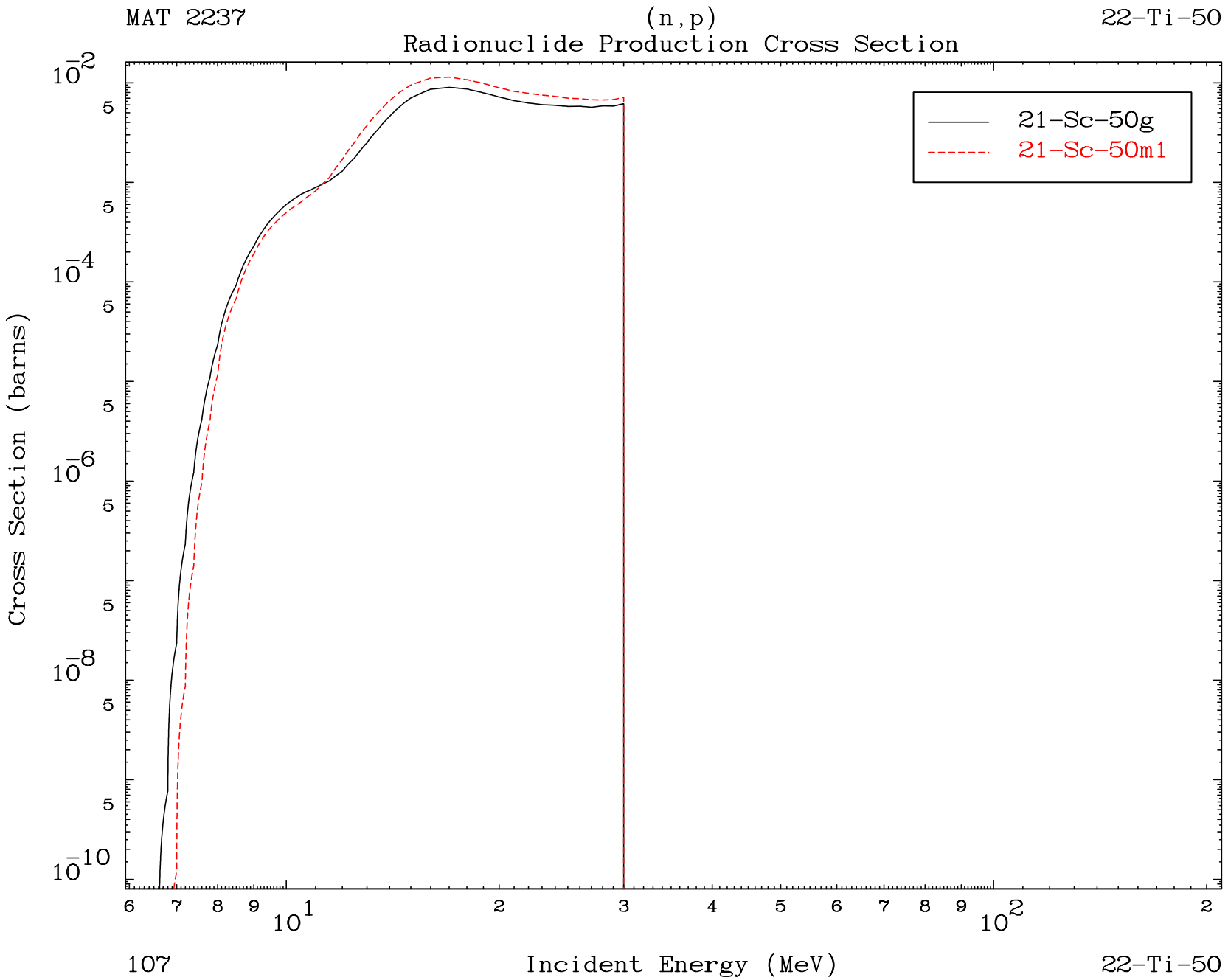

MAT 2237
MT= 79 (n,n') Level
Legendre Coefficients
22-Ti-50
0.0
X10^-5
-0.5
-1.0
-1.5
Legendre (CM)
50
100
150
200
102
Incident Energy (MeV)
22-Ti-50
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30


MAT 2237
MT= 80 (n,n') Level
Legendre Coefficients
22-Ti-50
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
103
Incident Energy (MeV)
22-Ti-50


MAT 2237
MT= 80 (n,n') Level
Legendre Coefficients
22-Ti-50
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
104
Incident Energy (MeV)
22-Ti-50


MAT 2237
MT= 80 (n,n') Level
Legendre Coefficients
22-Ti-50
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
105
Incident Energy (MeV)
22-Ti-50


MAT 2237
(n,3n)
22-Ti-50
Radionuclide Production Cross Section
22-Ti-48g
22-Ti-48m14
Cross Section (barns)
10-1
10-2
10-3
10-4
5
2
3
4
5
6
7
8
9
102
106
Incident Energy (MeV)
22-Ti-50


MAT 2237
(n,p)
22-Ti-50
Radionuclide Production Cross Section
21-Sc-50g
21-Sc-50m1
Cross Section (barns)
Incident Energy (MeV)
107
22-Ti-50