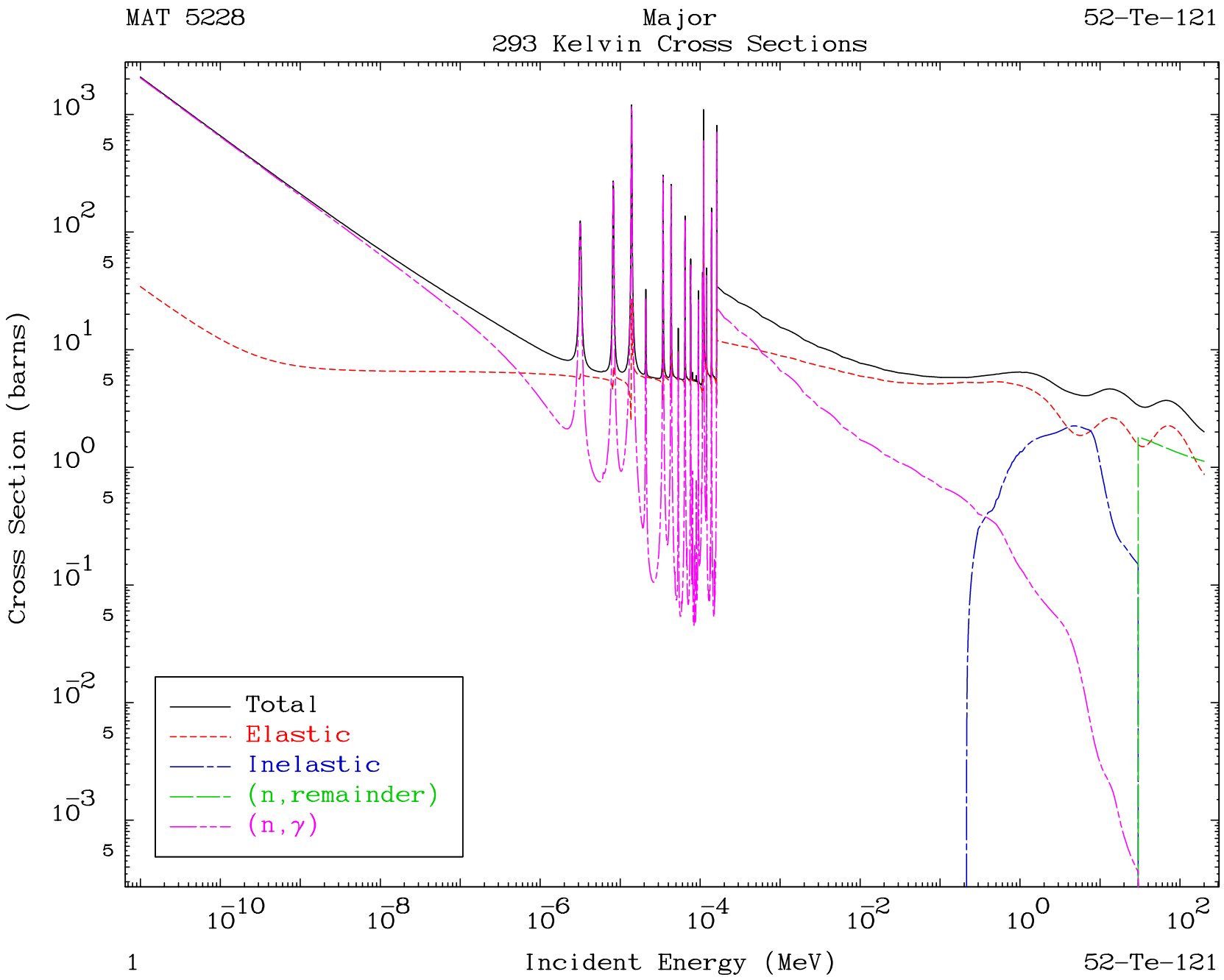
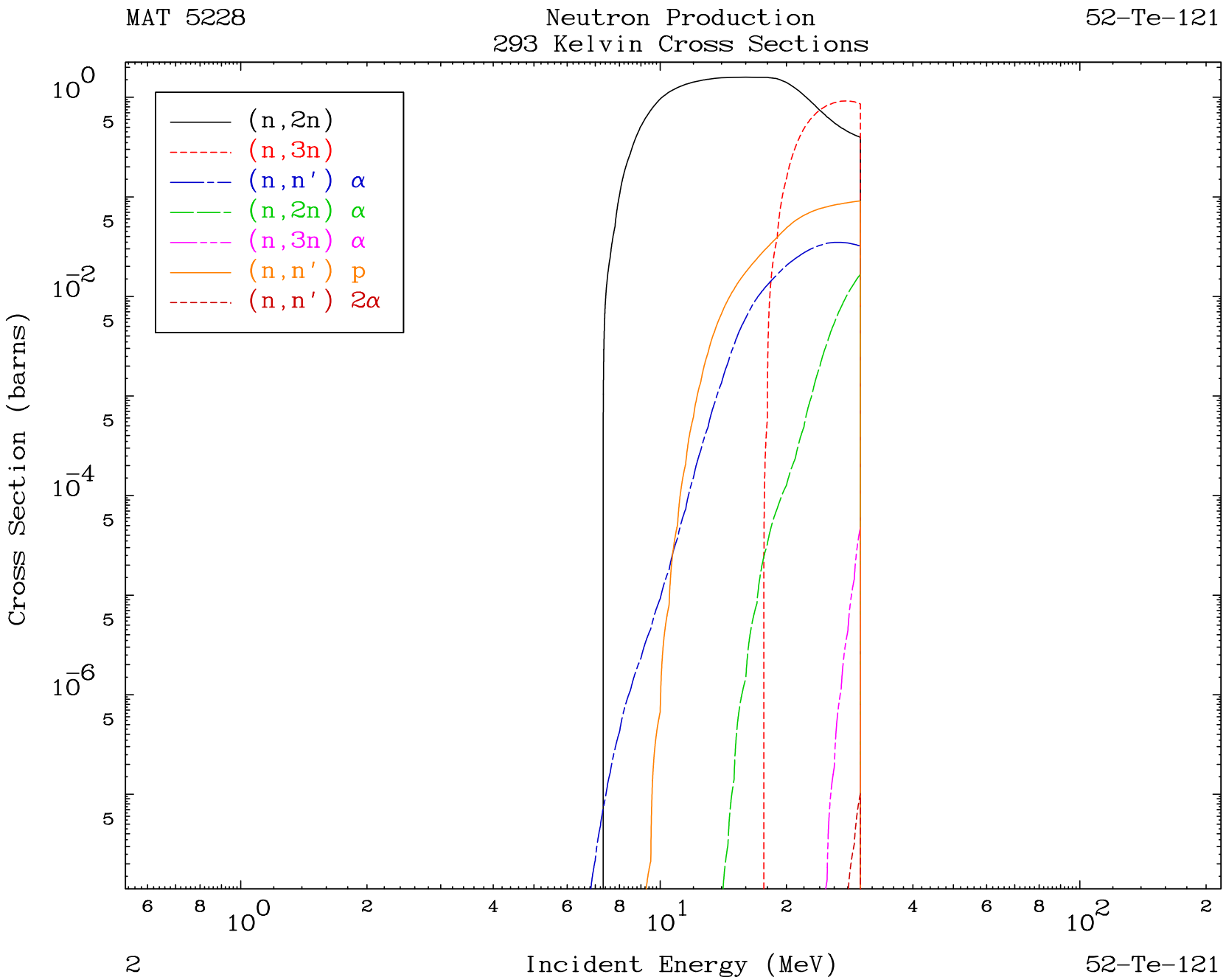
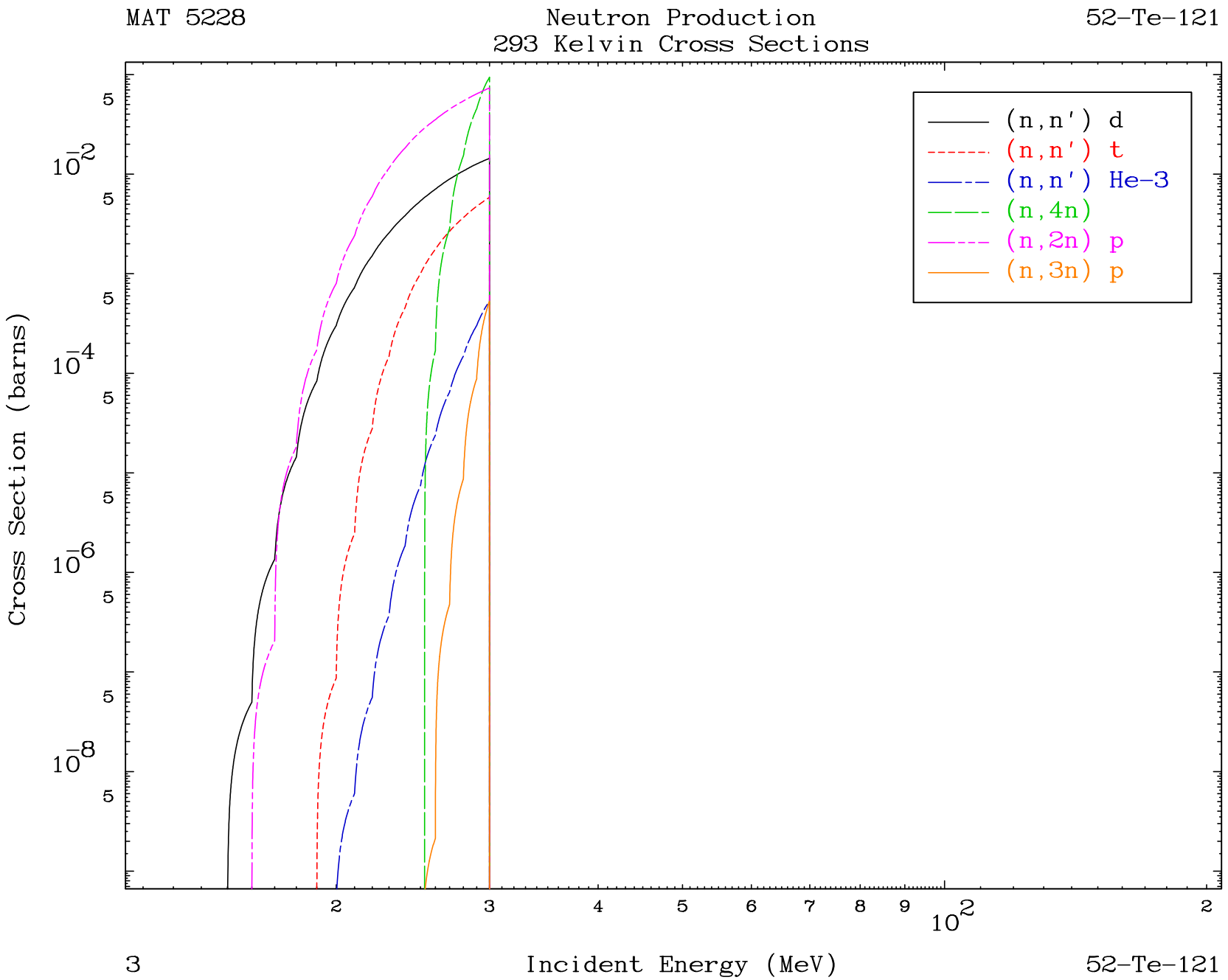
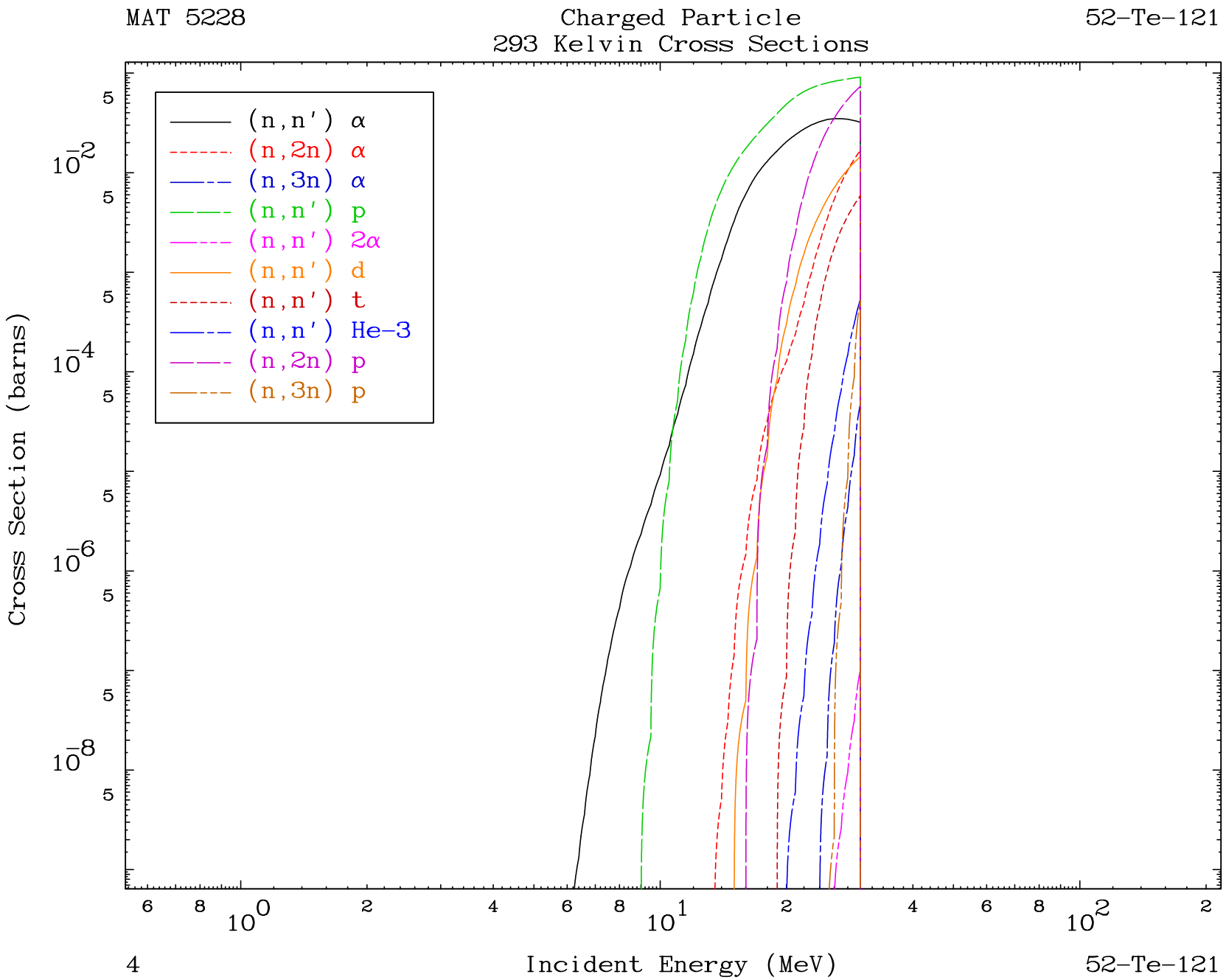
Program EVALPLOT
(Version 2017-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

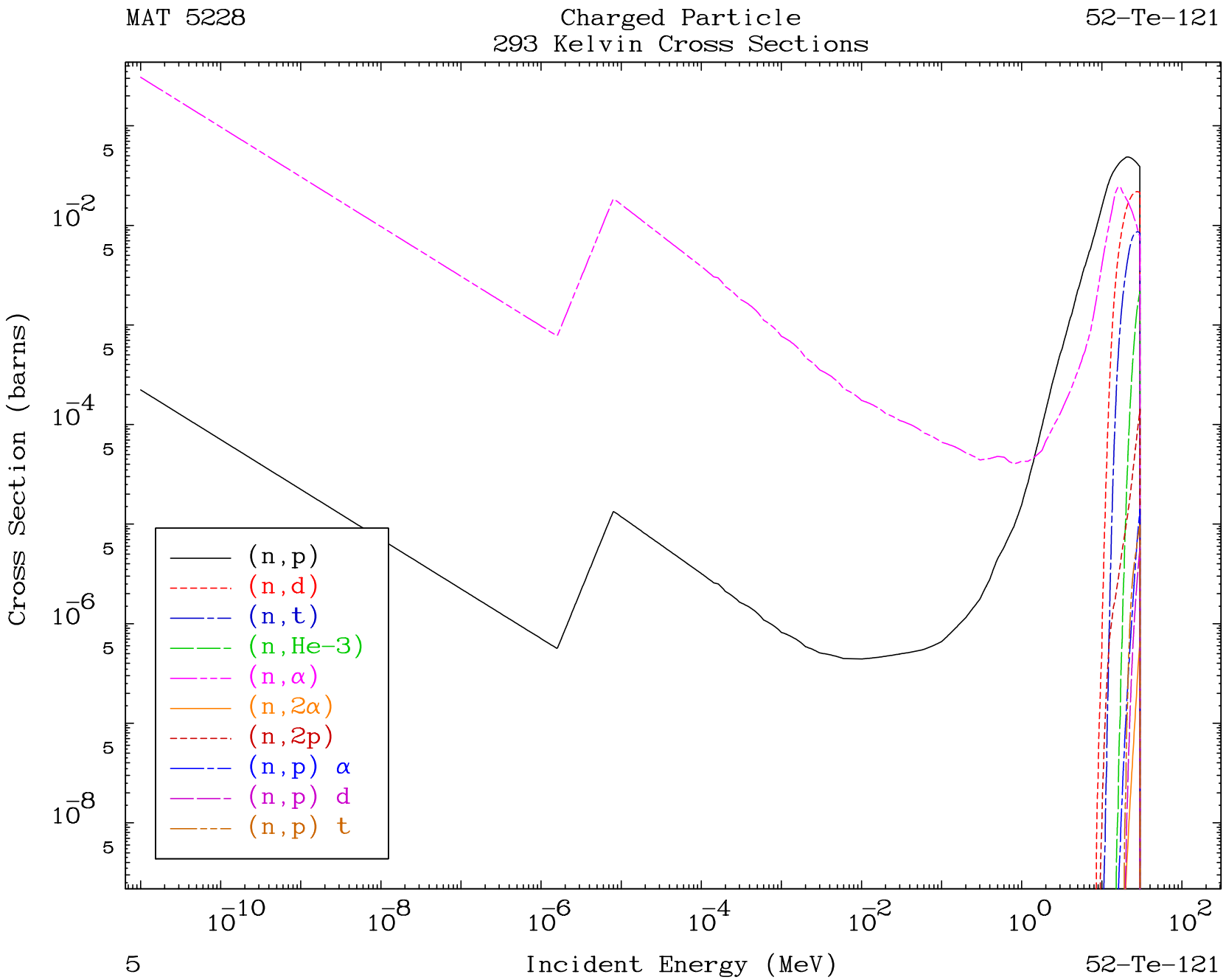
Press Mouse Button to Start

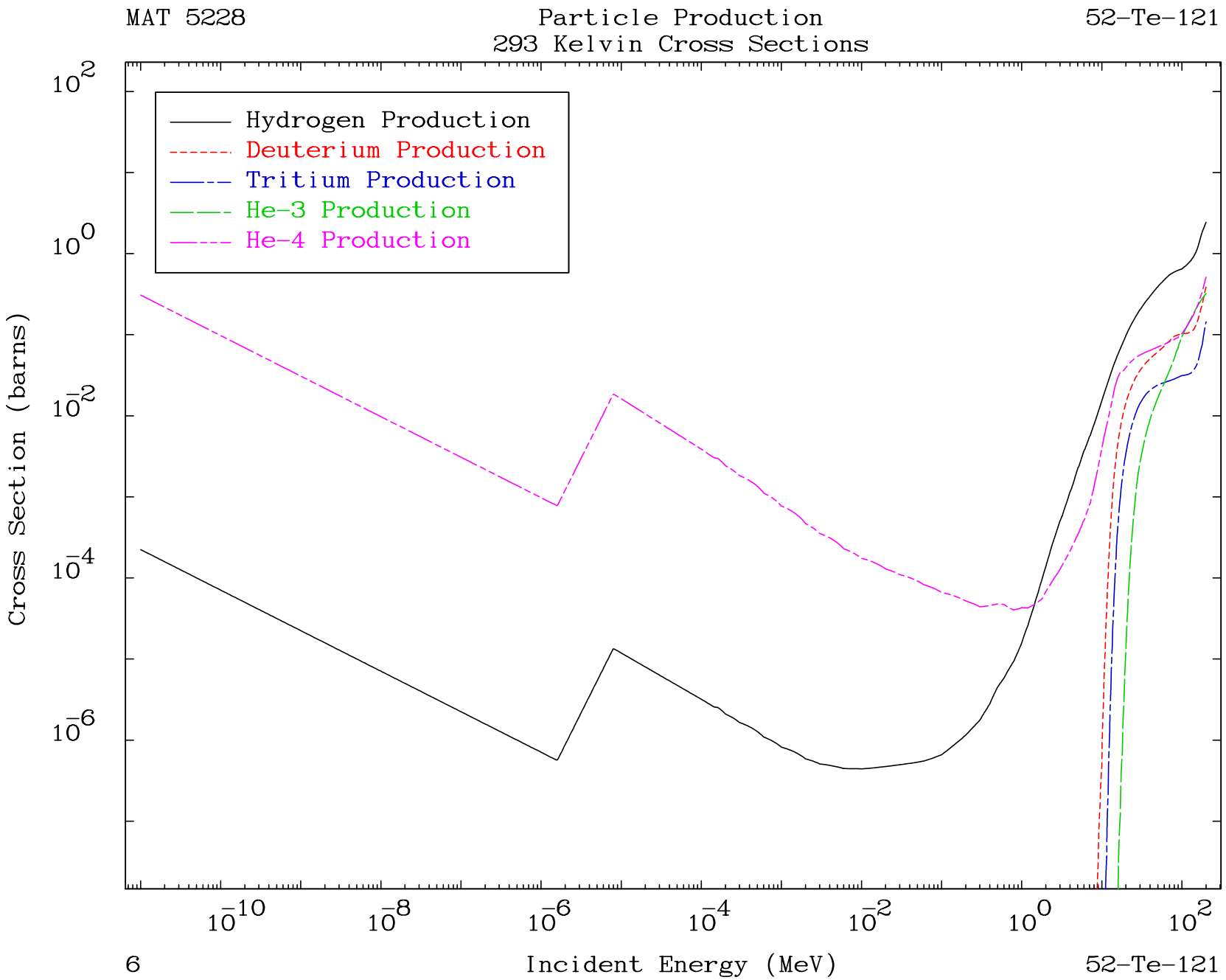

MAT 5228
Major
52-Te-121
293 Kelvin Cross Sections
Cross Section (barns)
Incident Energy (MeV)
Total
Elastic
Inelastic
(n,remainder)
(n,γ)
1
52-Te-121

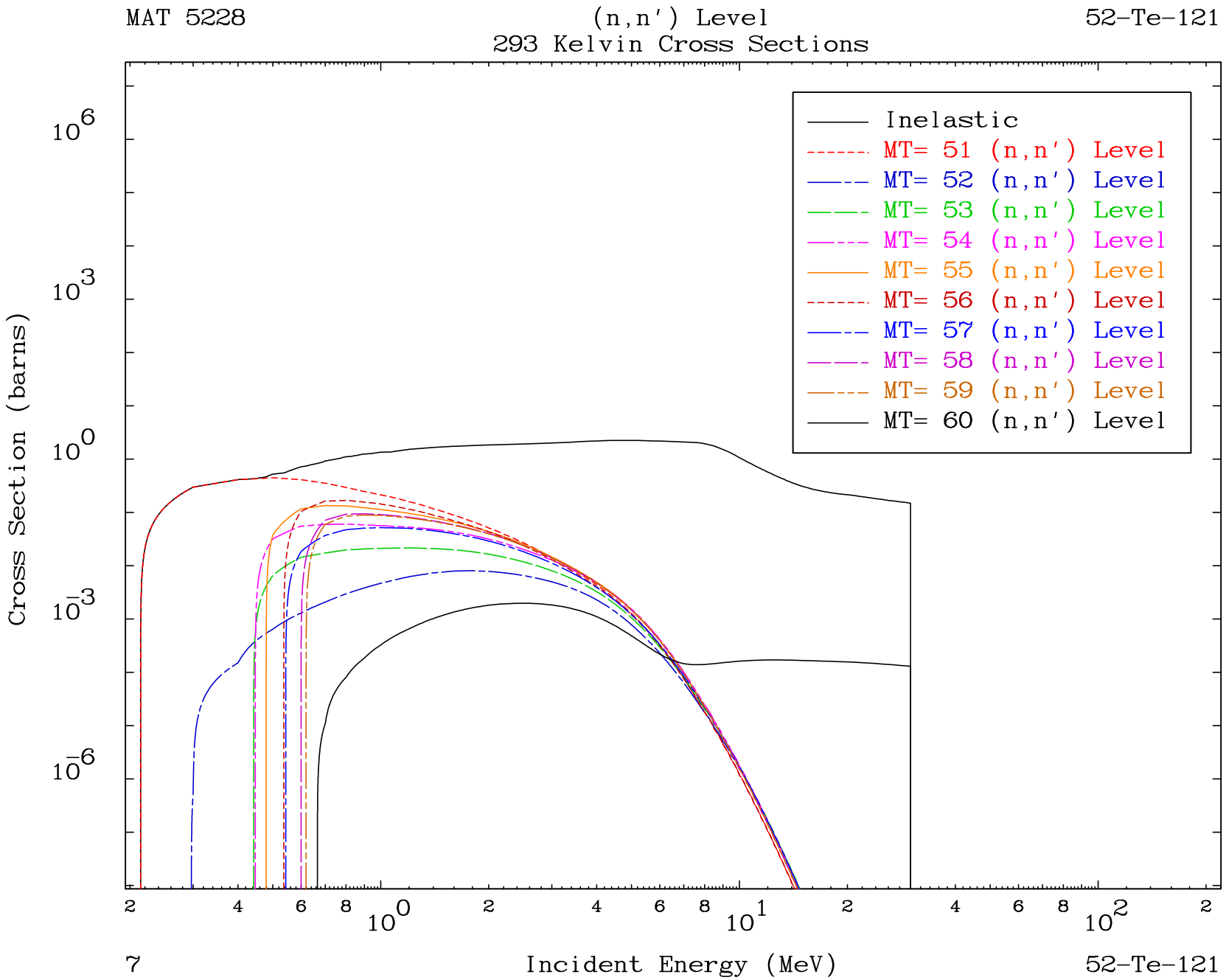

MAT 5228
Neutron Production
293 Kelvin Cross Sections
52-Te-121
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
Cross Section (barns)
Incident Energy (MeV)
52-Te-121

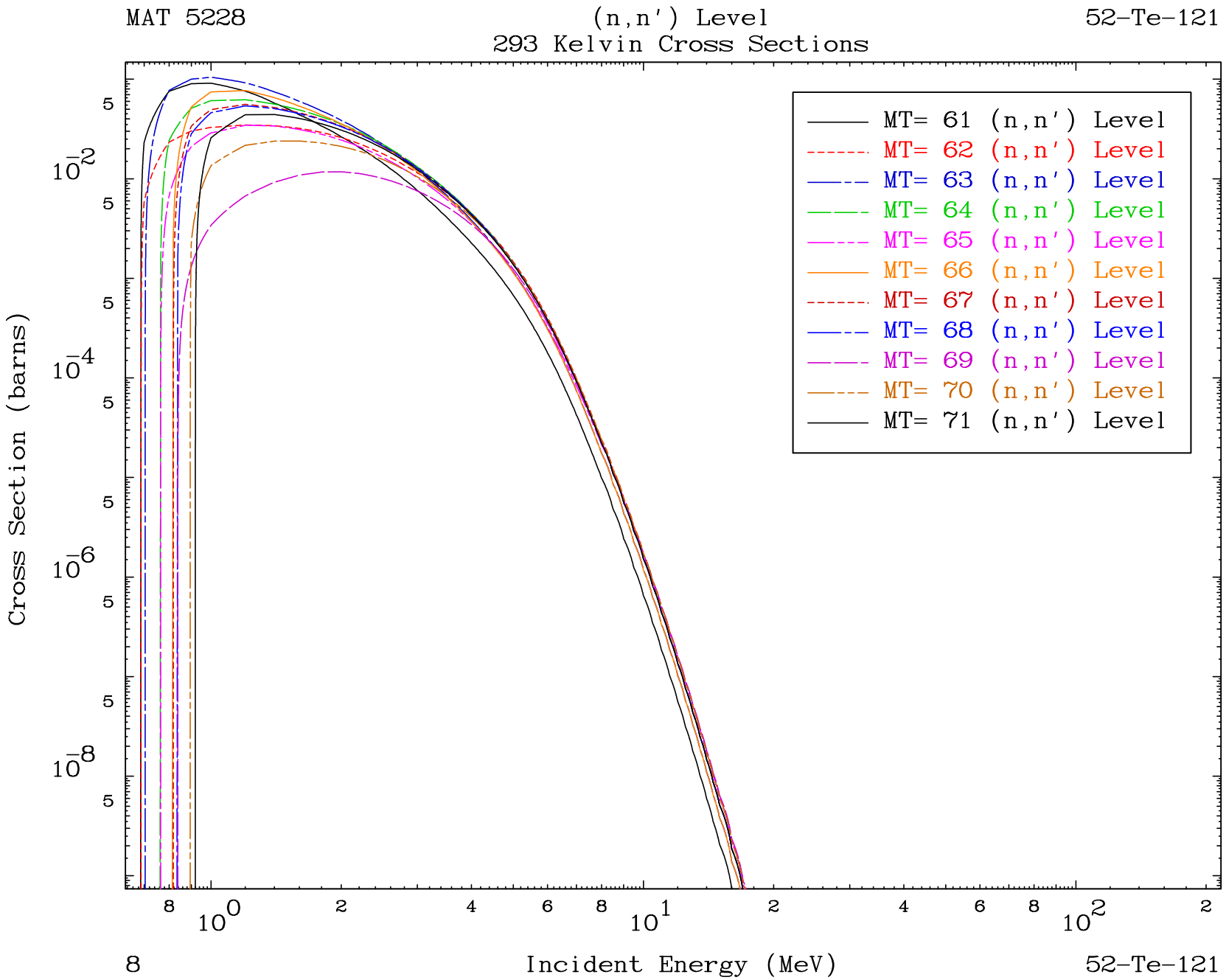

MAT 5228
Neutron Production
293 Kelvin Cross Sections
52-Te-121
(n,n') d
(n,n') t
(n,n') He-3
(n,4n)
(n,2n) p
(n,3n) p
Cross Section (barns)
10-2
10-4
10-6
10-8
5
2
3
4
5
6
7
8
9
10 2
2
Incident Energy (MeV)
3
52-Te-121

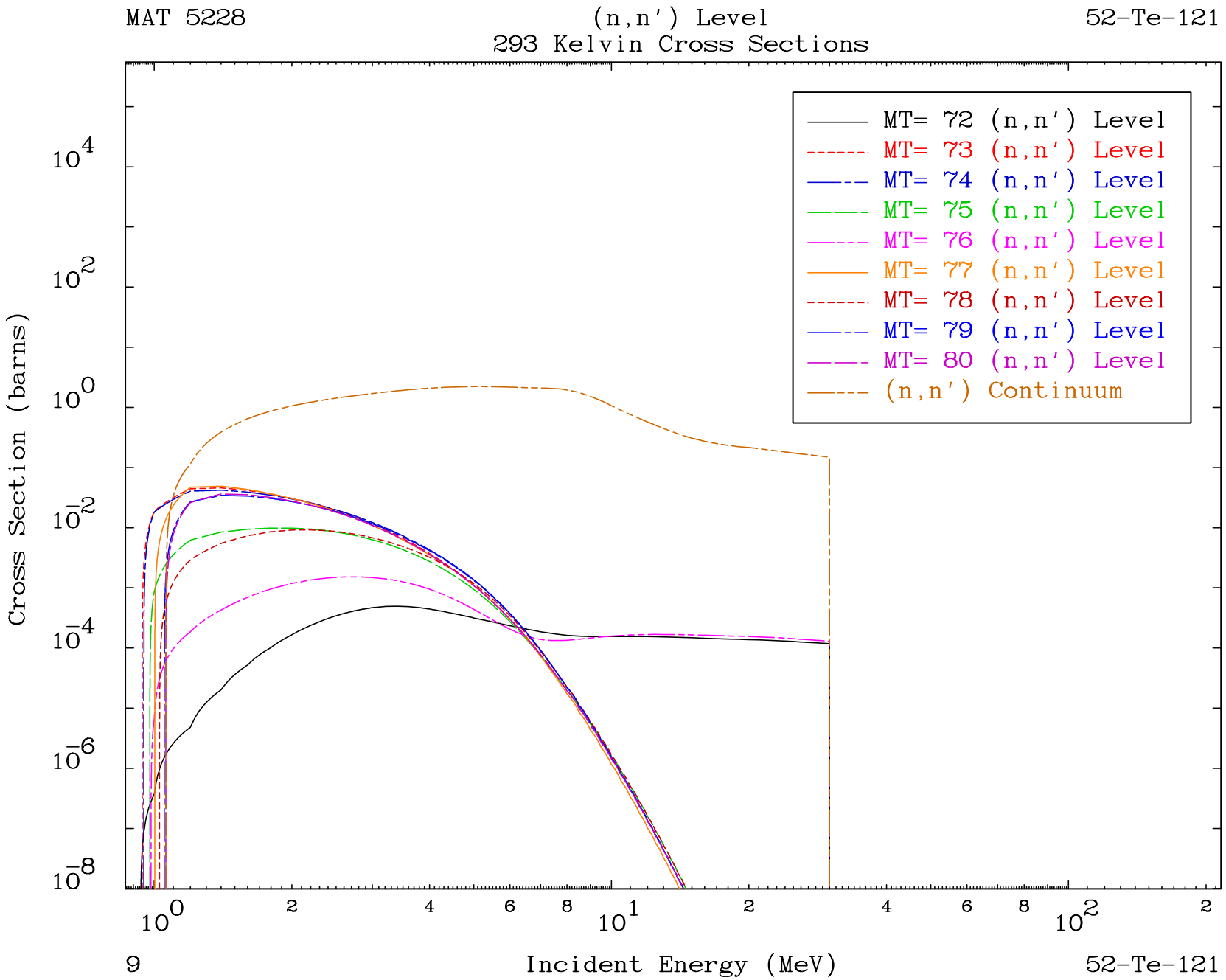

MAT 5228
Charged Particle
293 Kelvin Cross Sections
52-Te-121
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
(n,3n) p
Cross Section (barns)
Incident Energy (MeV)
4
52-Te-121

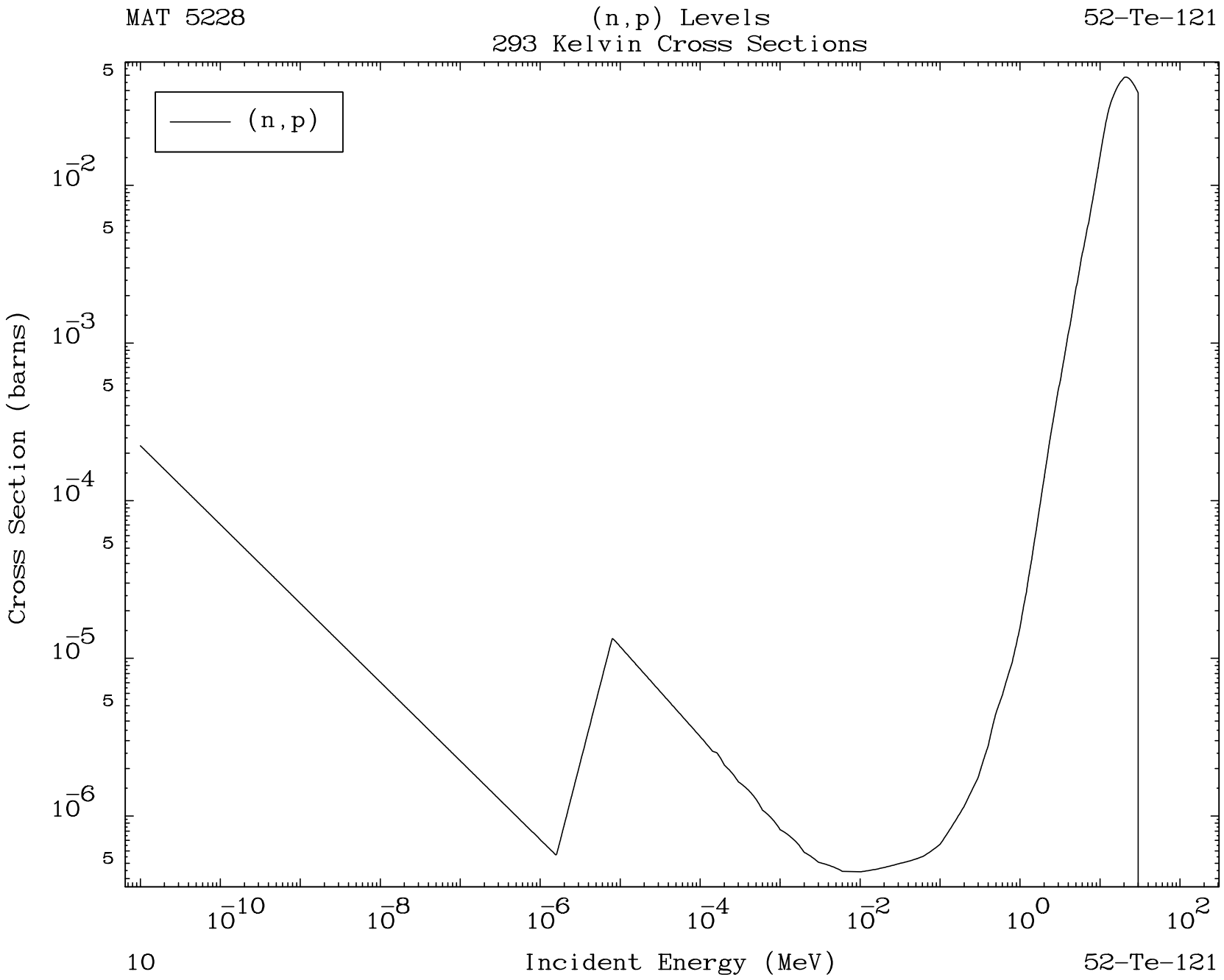

MAT 5228
Charged Particle
293 Kelvin Cross Sections
52-Te-121
Cross Section (barns)
Incident Energy (MeV)
52-Te-121
5
(n,p)
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t

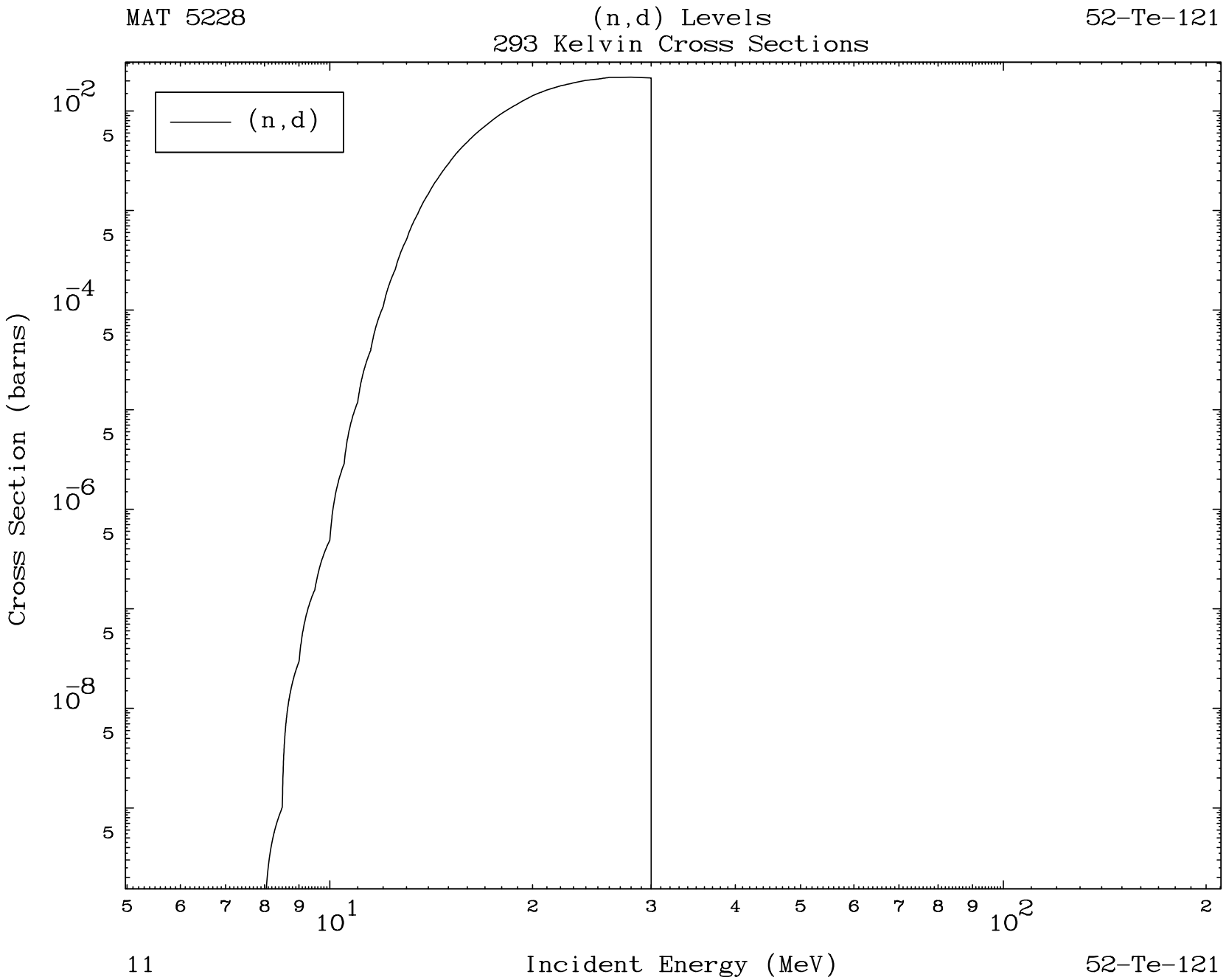

MAT 5228
Particle Production
293 Kelvin Cross Sections
52-Te-121
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production
Cross Section (barns)
10^2
10^0
10^-2
10^-4
10^-6
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
Incident Energy (MeV)
6
52-Te-121

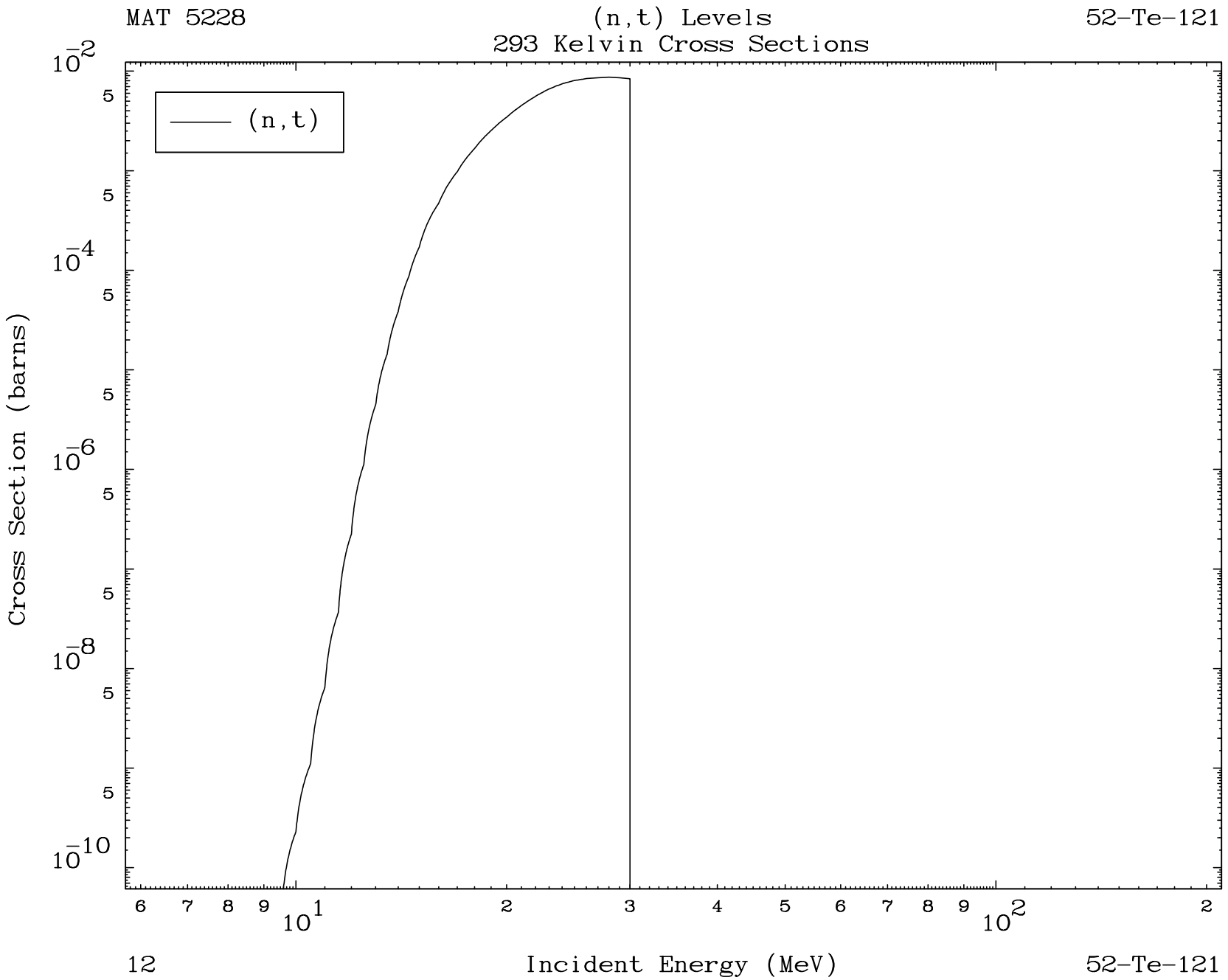

MAT 5228
(n,n') Level
293 Kelvin Cross Sections
52-Te-121
Inelastic
MT= 51 (n,n') Level
MT= 52 (n,n') Level
MT= 53 (n,n') Level
MT= 54 (n,n') Level
MT= 55 (n,n') Level
MT= 56 (n,n') Level
MT= 57 (n,n') Level
MT= 58 (n,n') Level
MT= 59 (n,n') Level
MT= 60 (n,n') Level
Cross Section (barns)
Incident Energy (MeV)
7
52-Te-121

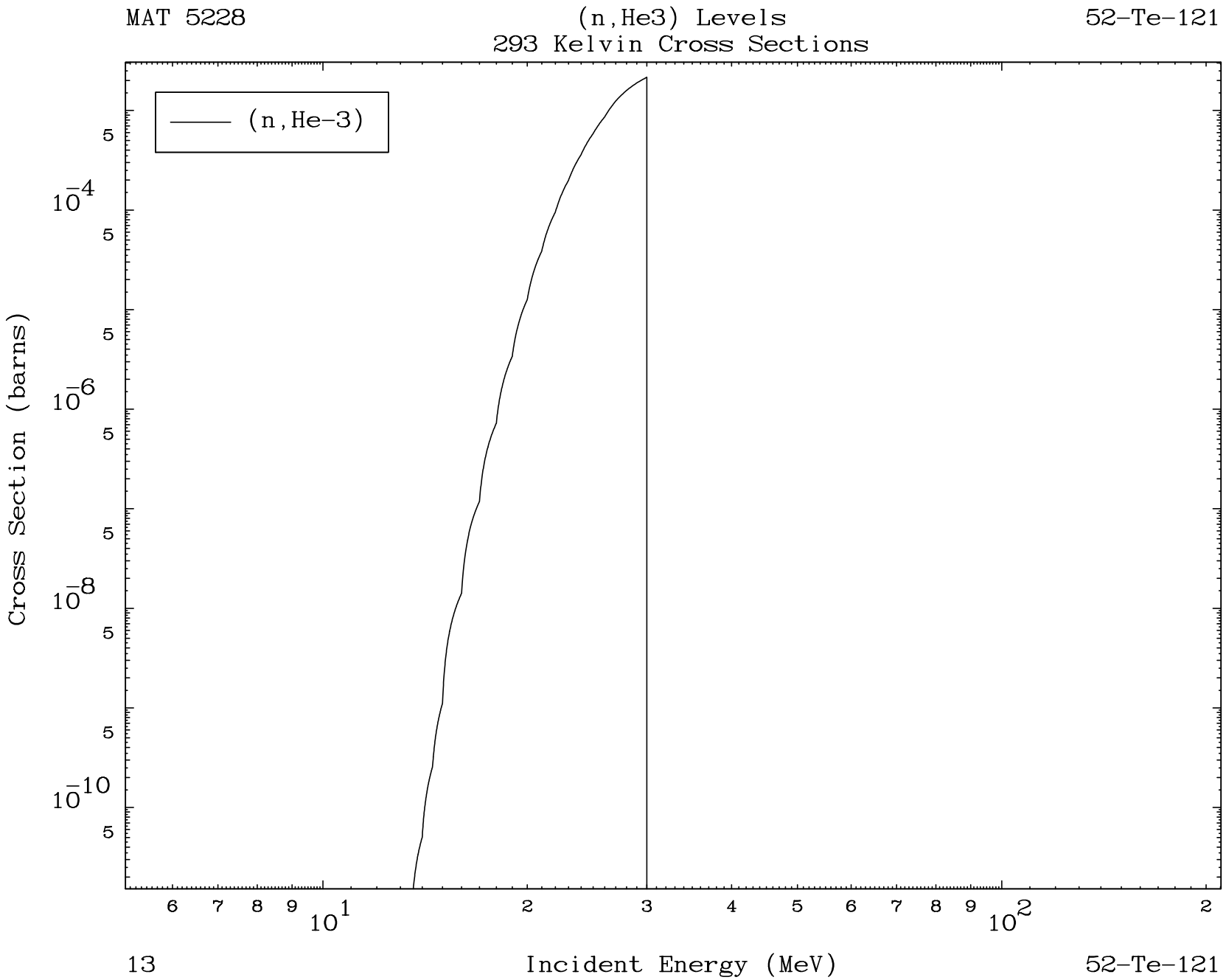

MAT 5228
(n,n') Level
293 Kelvin Cross Sections
52-Te-121
MT= 61 (n,n') Level
MT= 62 (n,n') Level
MT= 63 (n,n') Level
MT= 64 (n,n') Level
MT= 65 (n,n') Level
MT= 66 (n,n') Level
MT= 67 (n,n') Level
MT= 68 (n,n') Level
MT= 69 (n,n') Level
MT= 70 (n,n') Level
MT= 71 (n,n') Level
Cross Section (barns)
Incident Energy (MeV)
52-Te-121


MAT 5228
(n,n') Level
293 Kelvin Cross Sections
52-Te-121
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
Cross Section (barns)
Incident Energy (MeV)
9
52-Te-121

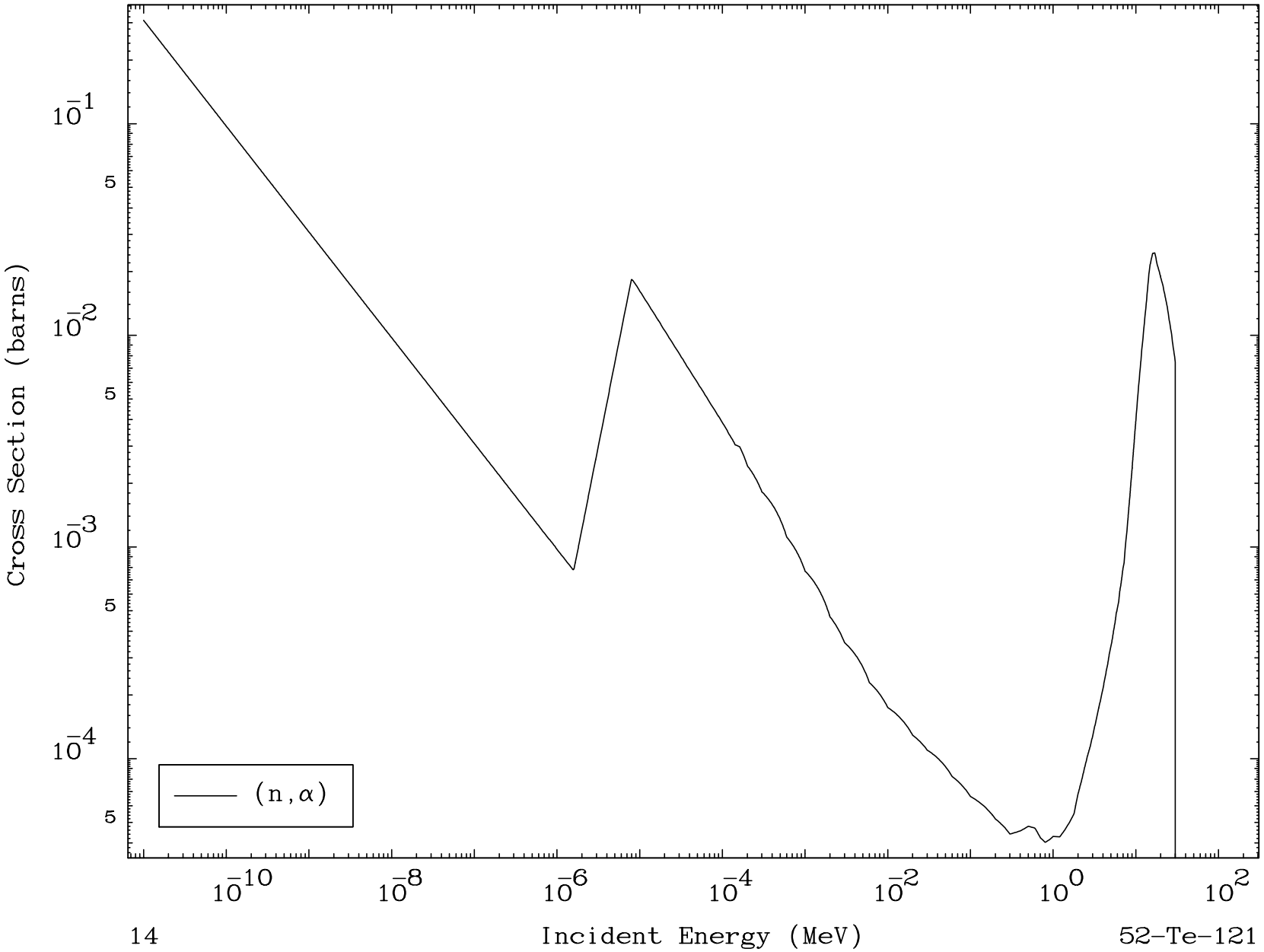

MAT 5228
(n,p) Levels
52-Te-121
293 Kelvin Cross Sections
(n,p)
Cross Section (barns)
Incident Energy (MeV)
52-Te-121
10

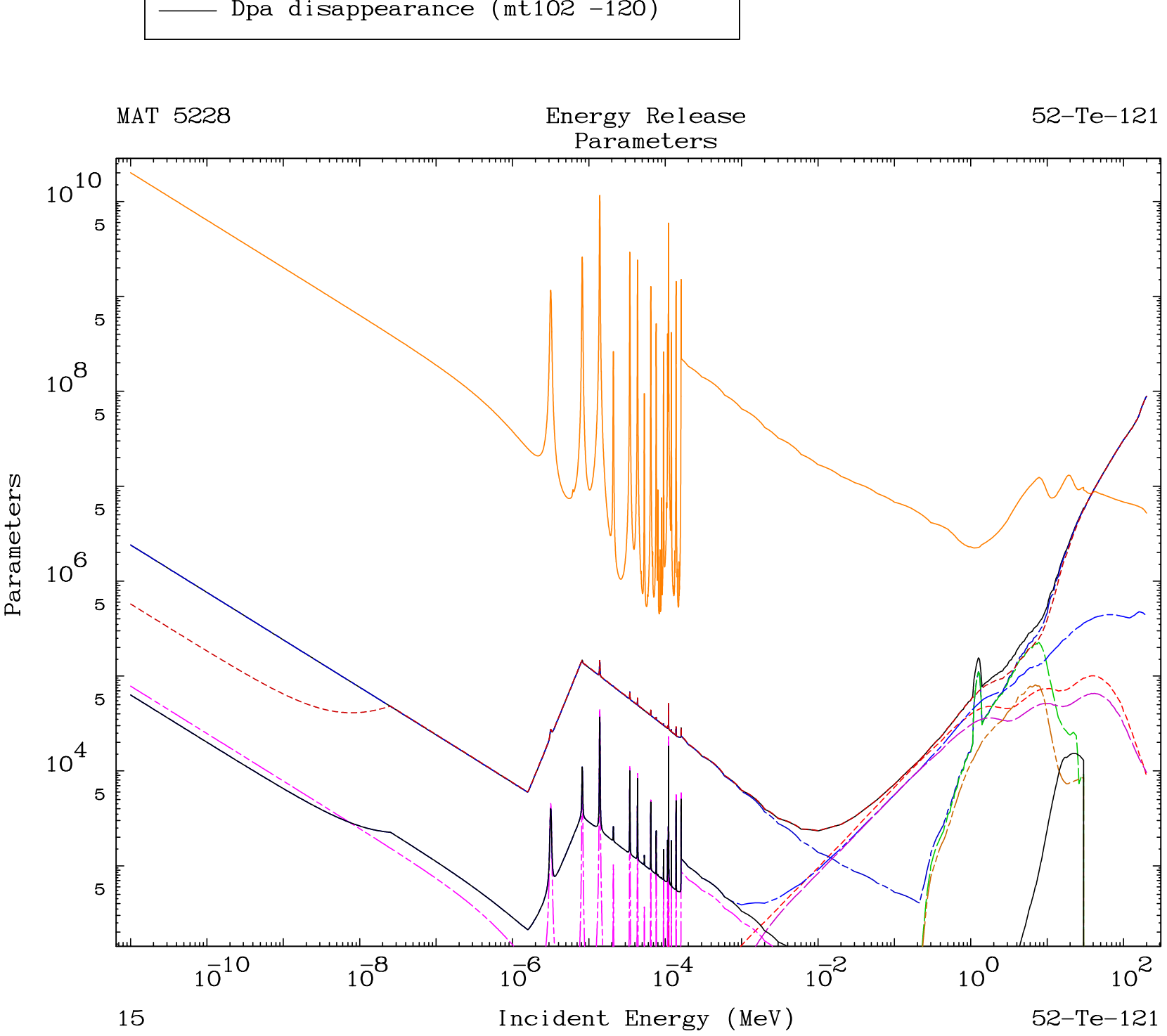

MAT 5228
(n,d) Levels
52-Te-121
293 Kelvin Cross Sections
(n,d)
Cross Section (barns)
10^-2
10^-4
10^-6
10^-8
5
5
5
5
5
5
5
5
5 6 7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
Incident Energy (MeV)
11
52-Te-121

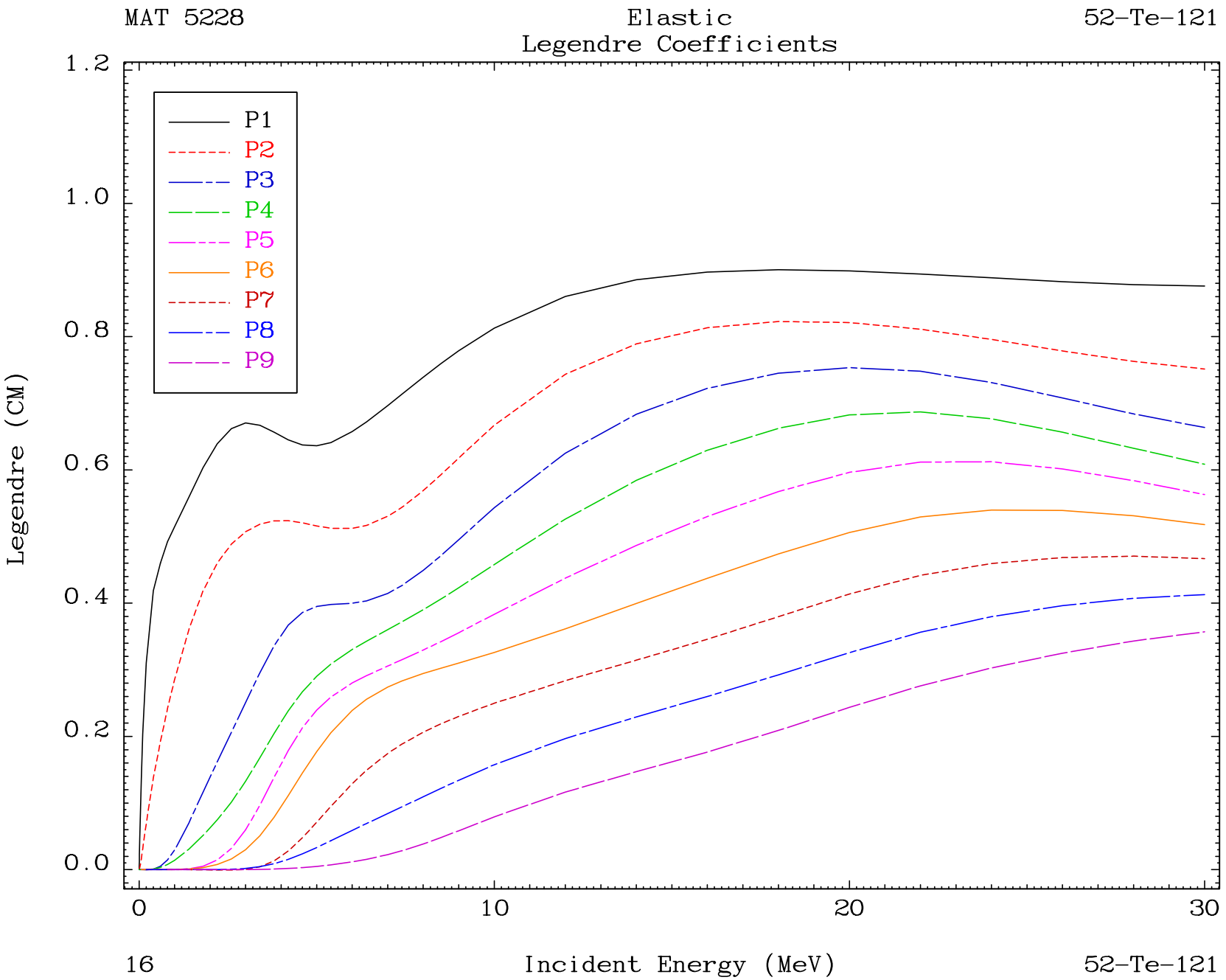

MAT 5228
(n,t) Levels
52-Te-121
293 Kelvin Cross Sections
(n,t)
Cross Section (barns)
Incident Energy (MeV)
12
52-Te-121

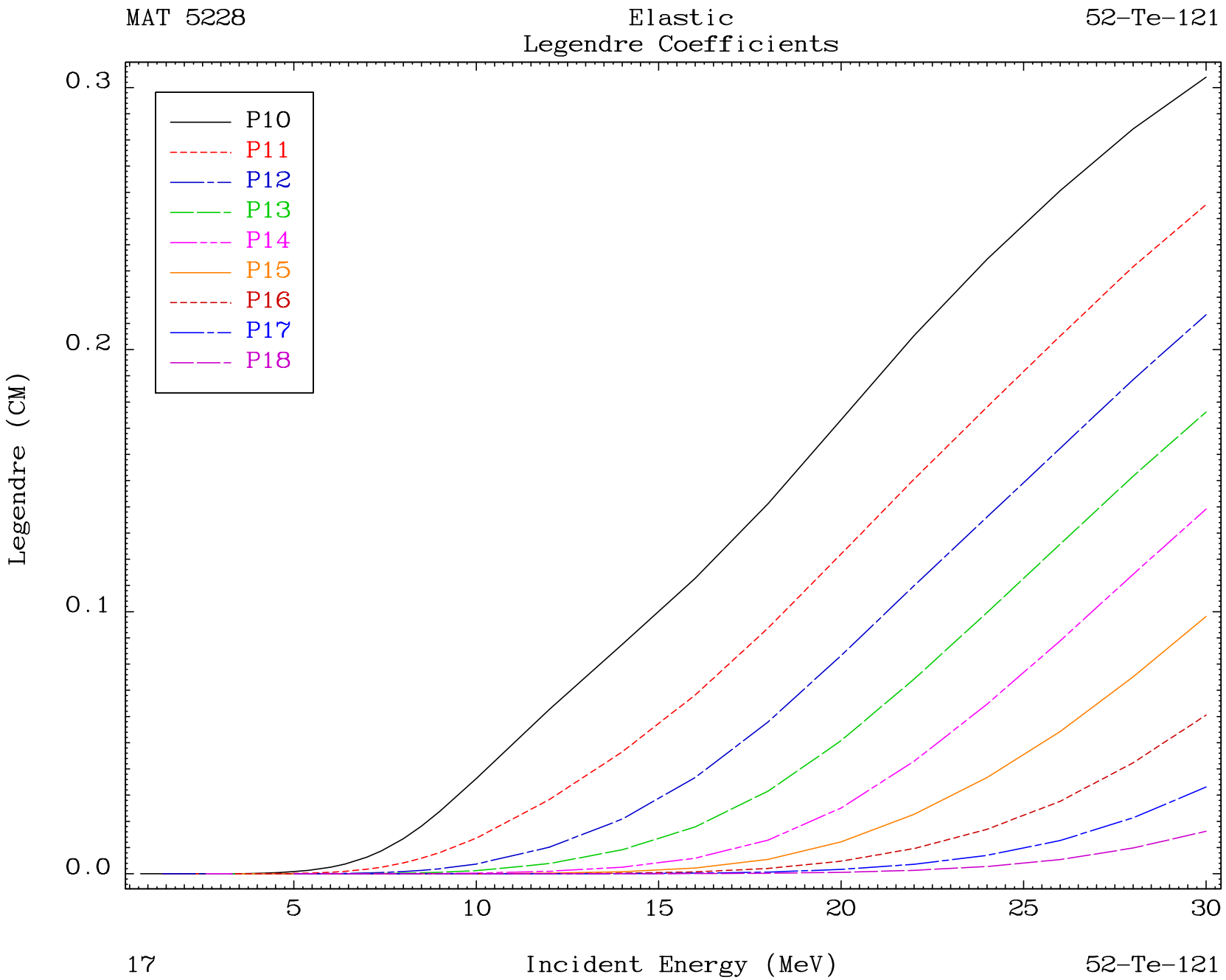

MAT 5228
(n,He3) Levels
52-Te-121
293 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
10-4
10-6
10-8
10-10
6 7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
13
Incident Energy (MeV)
52-Te-121

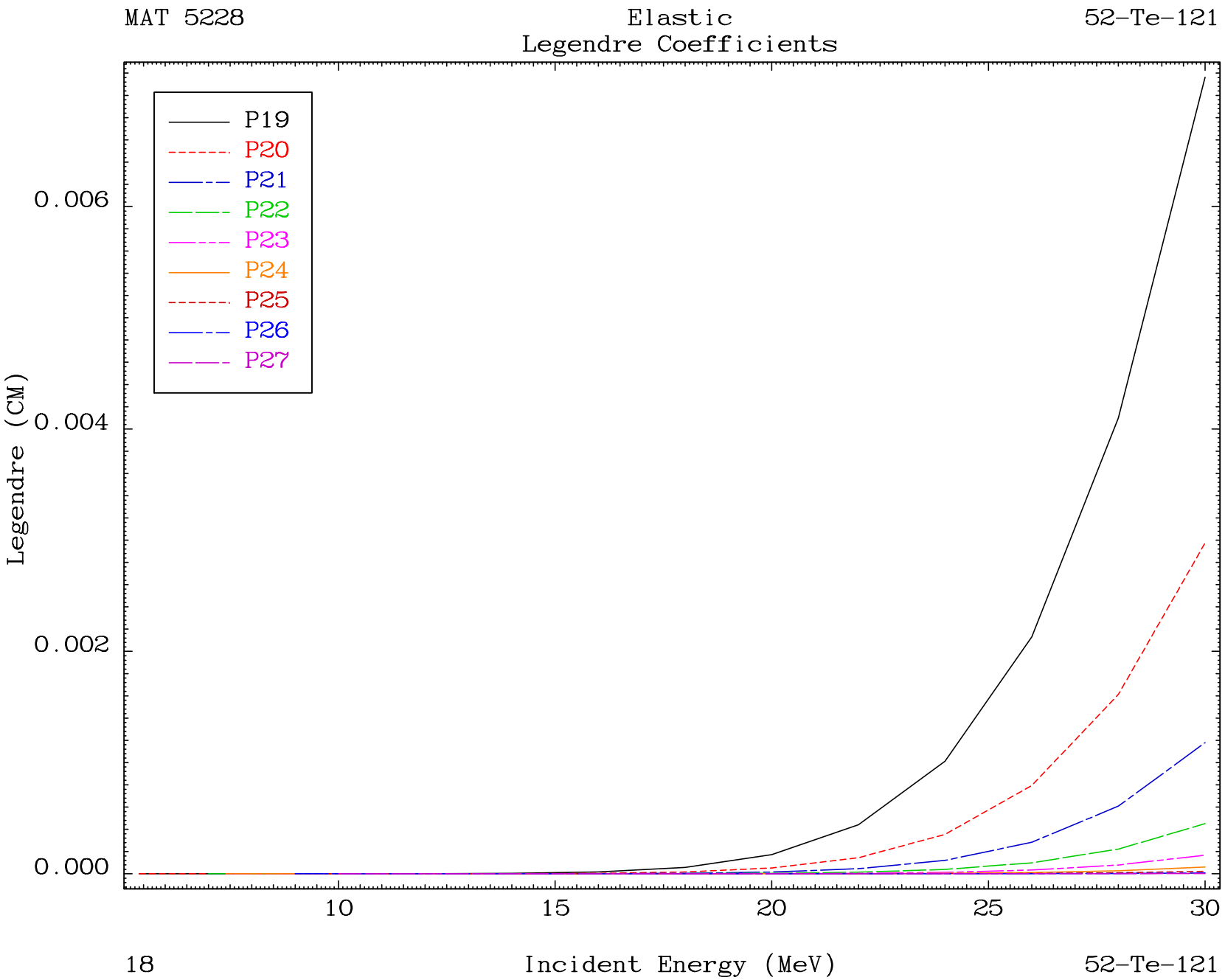
293 Kelvin Cross Sections

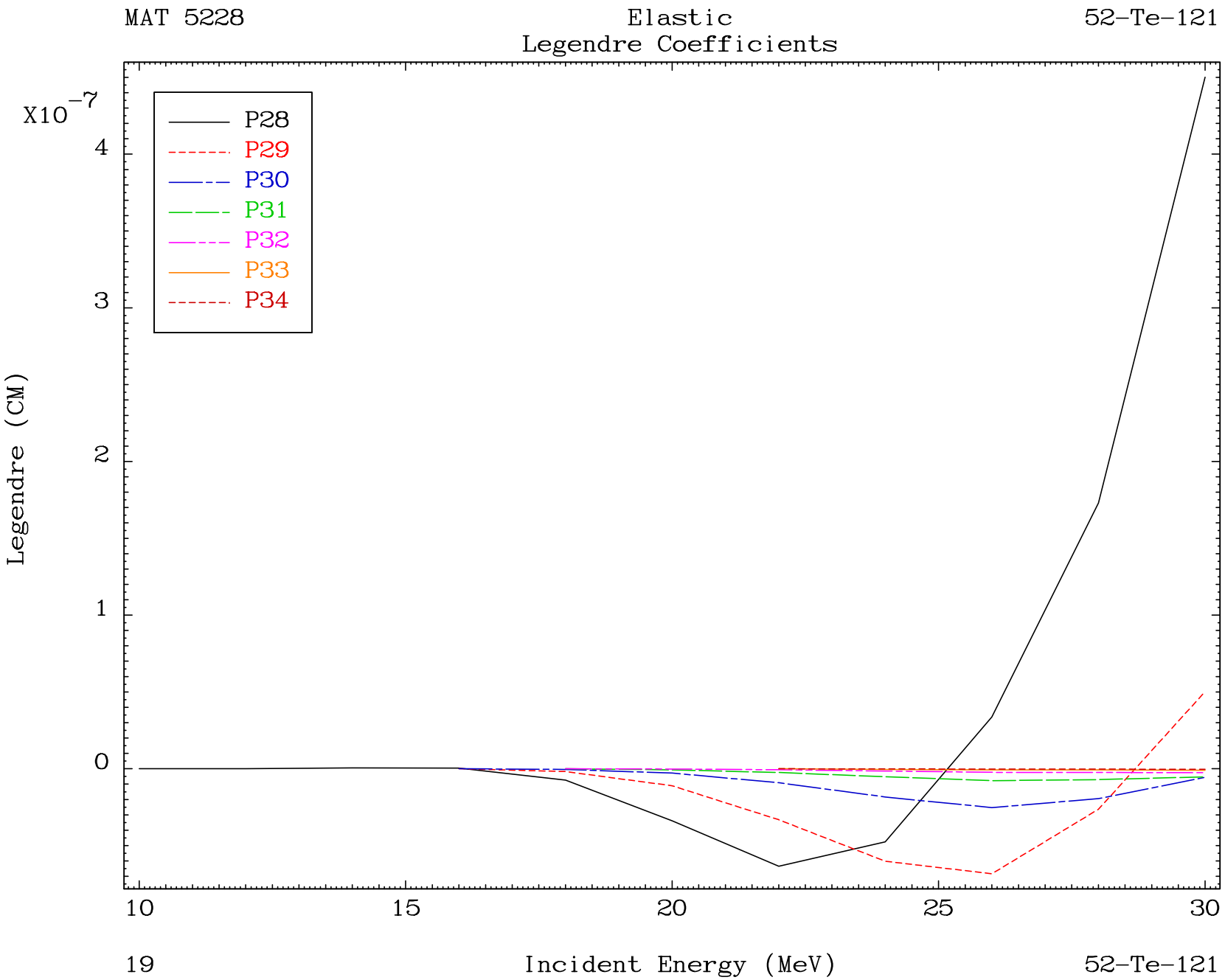


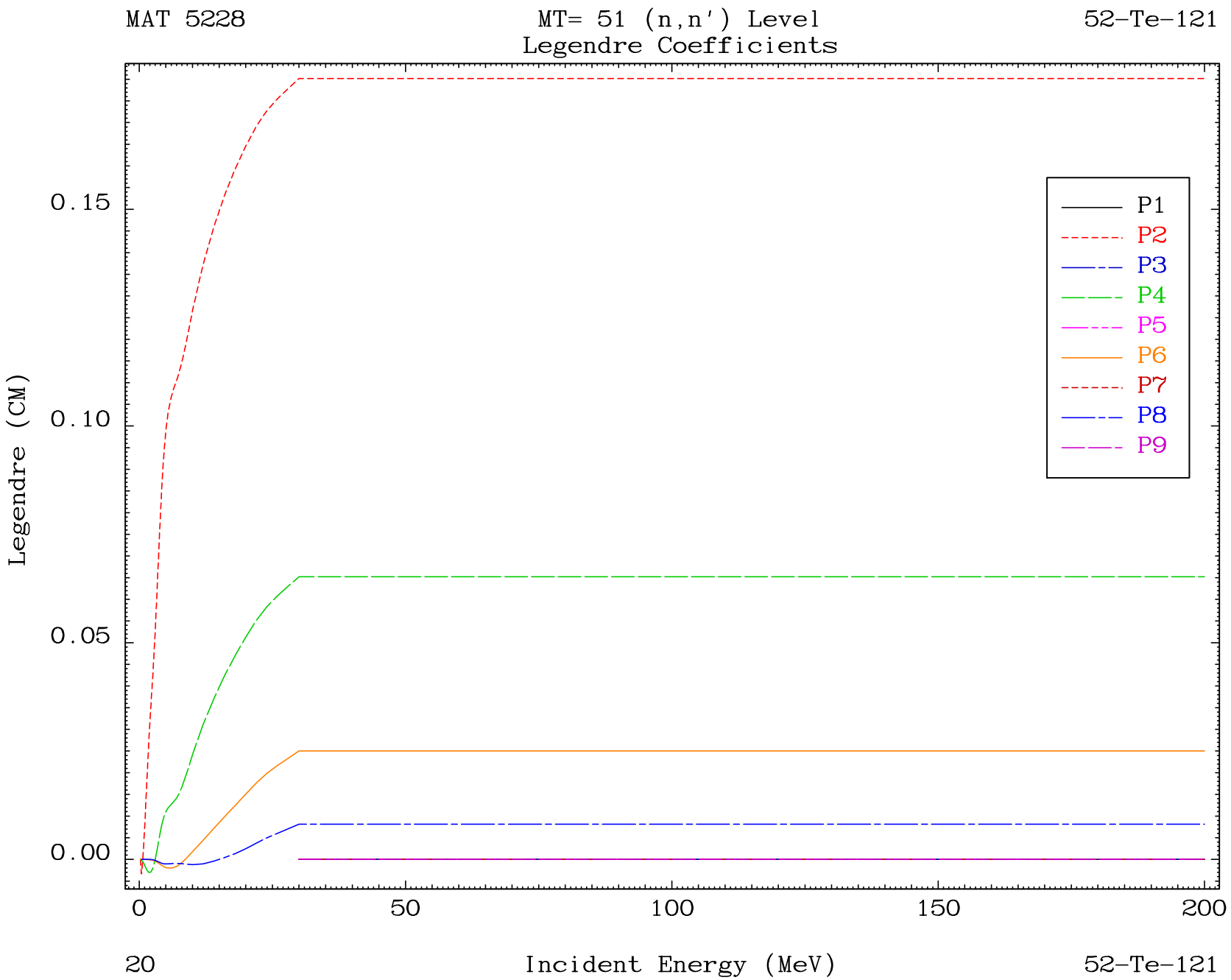

Dpa disappearance (mt102 -120)
MAT 5228
Energy Release
Parameters
52-Te-121
Parameters
Incident Energy (MeV)
15
52-Te-121

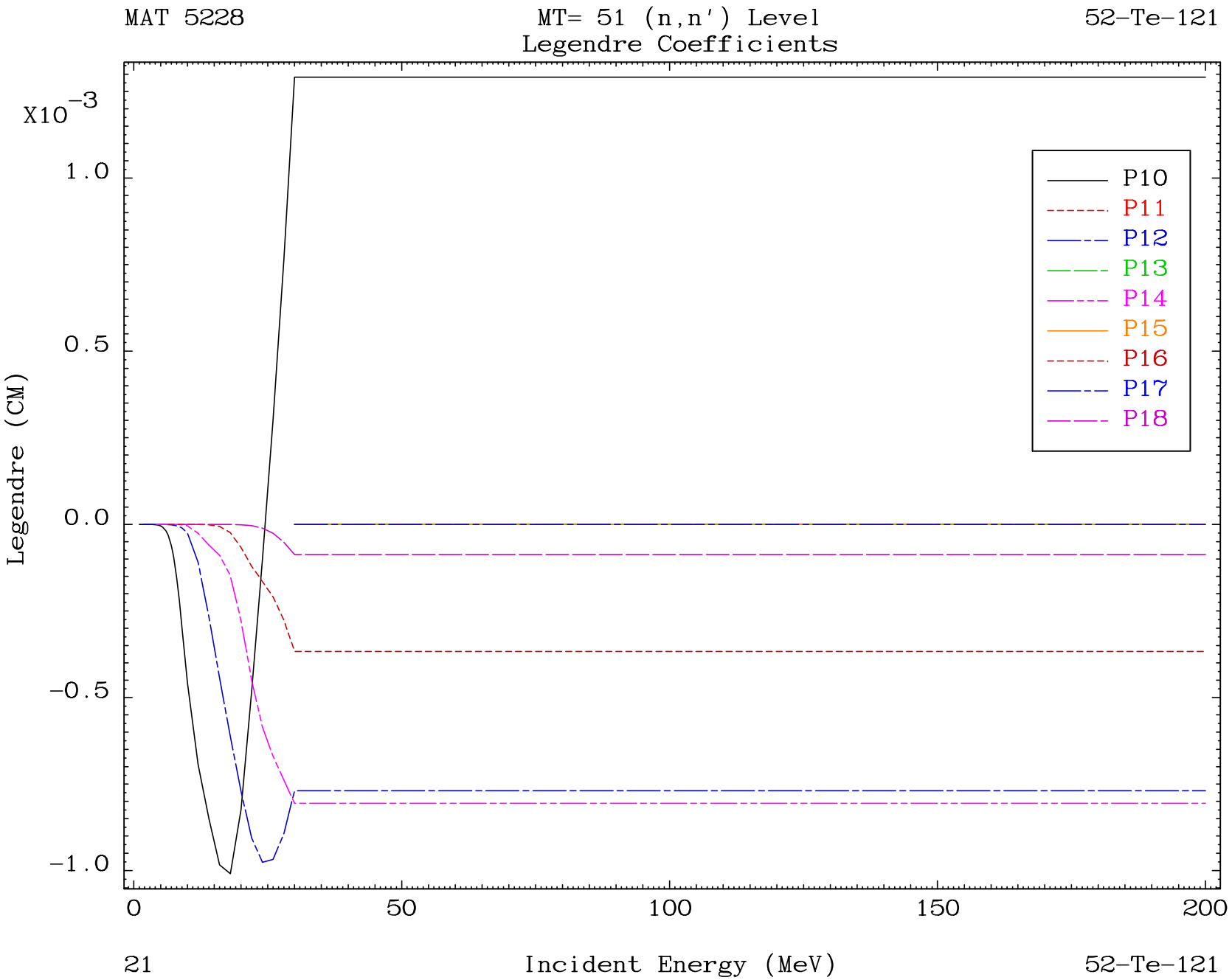

MAT 5228
Elastic
Legendre Coefficients
52-Te-121
P1
P2
P3
P4
P5
P6
P7
P8
P9
Legendre (CM)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
16
Incident Energy (MeV)
52-Te-121

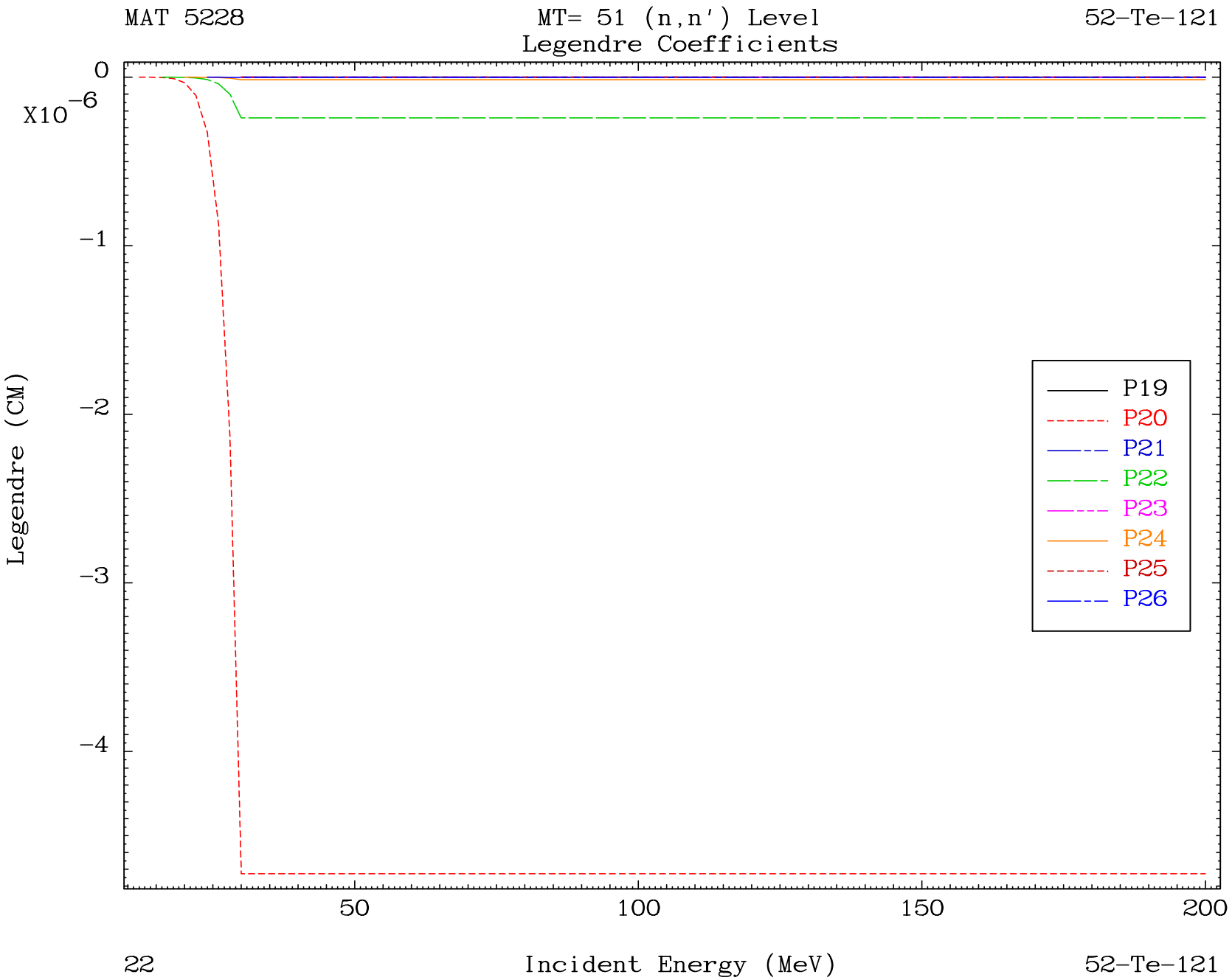

MAT 5228
Elastic
Legendre Coefficients
52-Te-121
P10
P11
P12
P13
P14
P15
P16
P17
P18
Legendre (CM)
0.3
0.2
0.1
0.0
5
10
15
20
25
30
17
Incident Energy (MeV)
52-Te-121


MAT 5228
Elastic
Legendre Coefficients
52-Te-121
P19
P20
P21
P22
P23
P24
P25
P26
P27
0.006
0.004
0.002
0.000
Legendre (CM)
10
15
20
25
30
18
Incident Energy (MeV)
52-Te-121


MAT 5228
Elastic
Legendre Coefficients
52-Te-121
X10-7
P28
P29
P30
P31
P32
P33
P34
Legendre (CM)
4
3
2
1
0
10
15
20
25
30
19
Incident Energy (MeV)
52-Te-121


MAT 5228
MT= 51 (n,n') Level
Legendre Coefficients
52-Te-121
Legendre (CM)
0.15
0.10
0.05
0.00
0
50
100
150
200
20
Incident Energy (MeV)
52-Te-121
P1
P2
P3
P4
P5
P6
P7
P8
P9


MAT 5228
MT= 51 (n,n') Level
Legendre Coefficients
52-Te-121
X10-3
1.0
0.5
0.0
-0.5
-1.0
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
21
Incident Energy (MeV)
52-Te-121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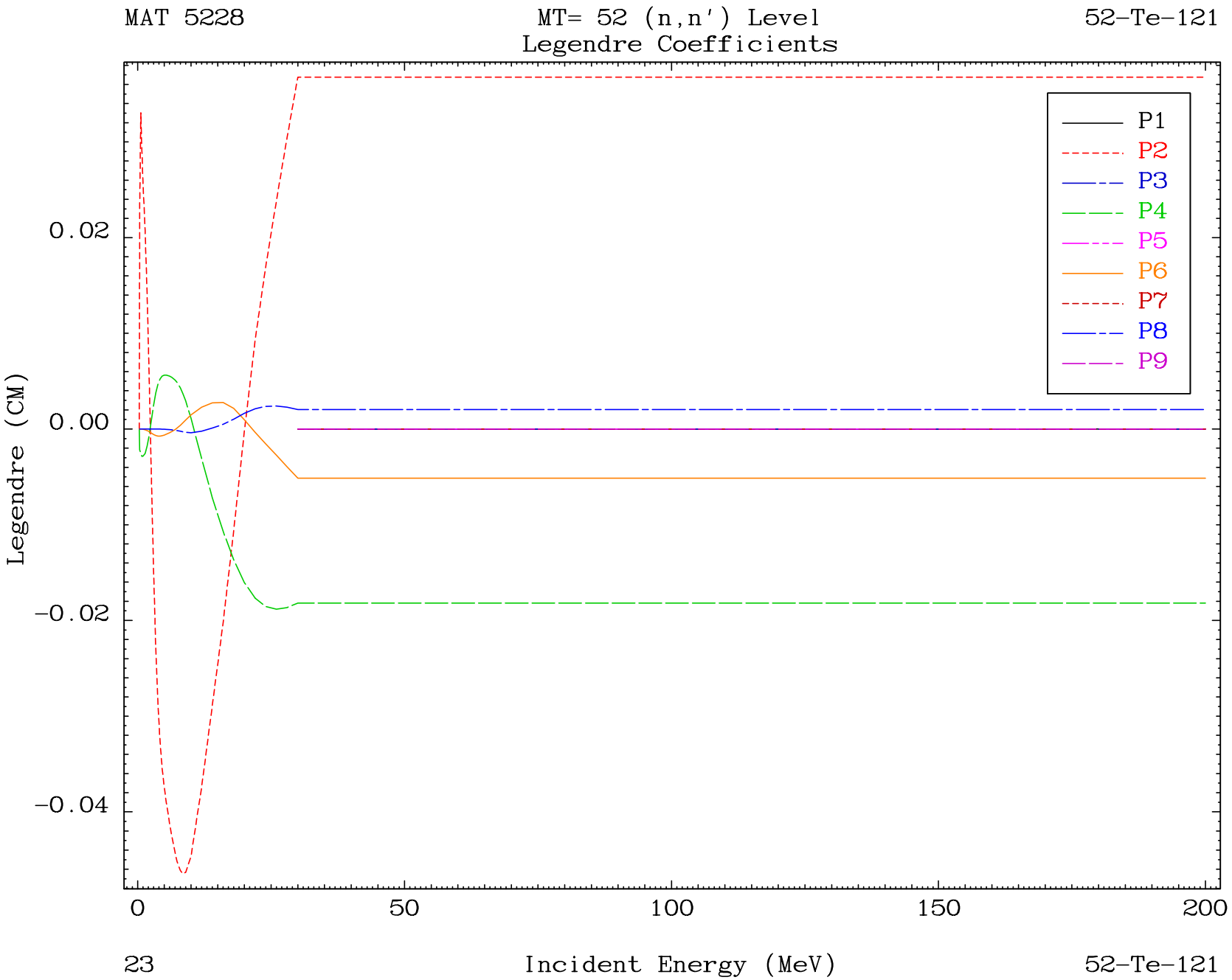
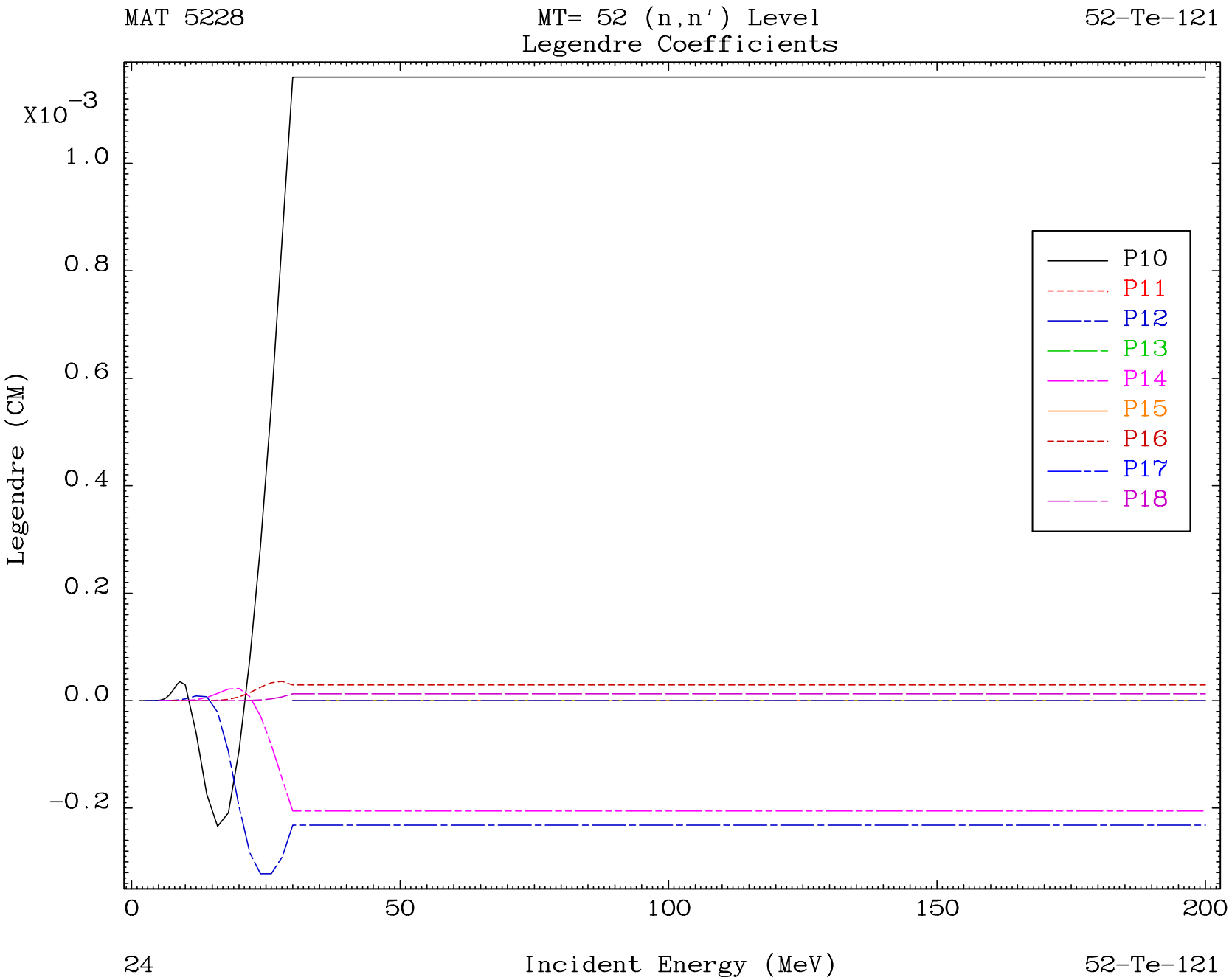
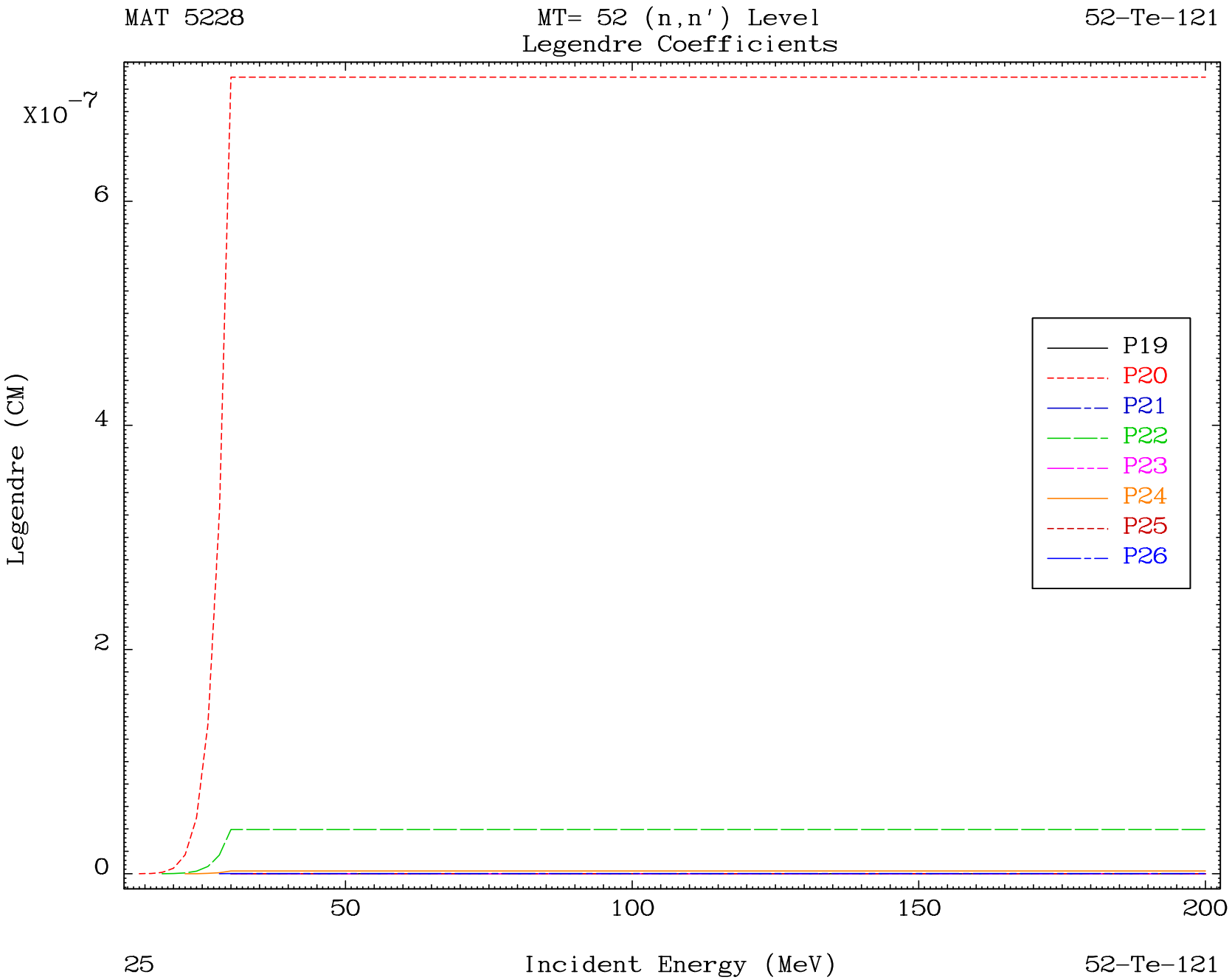
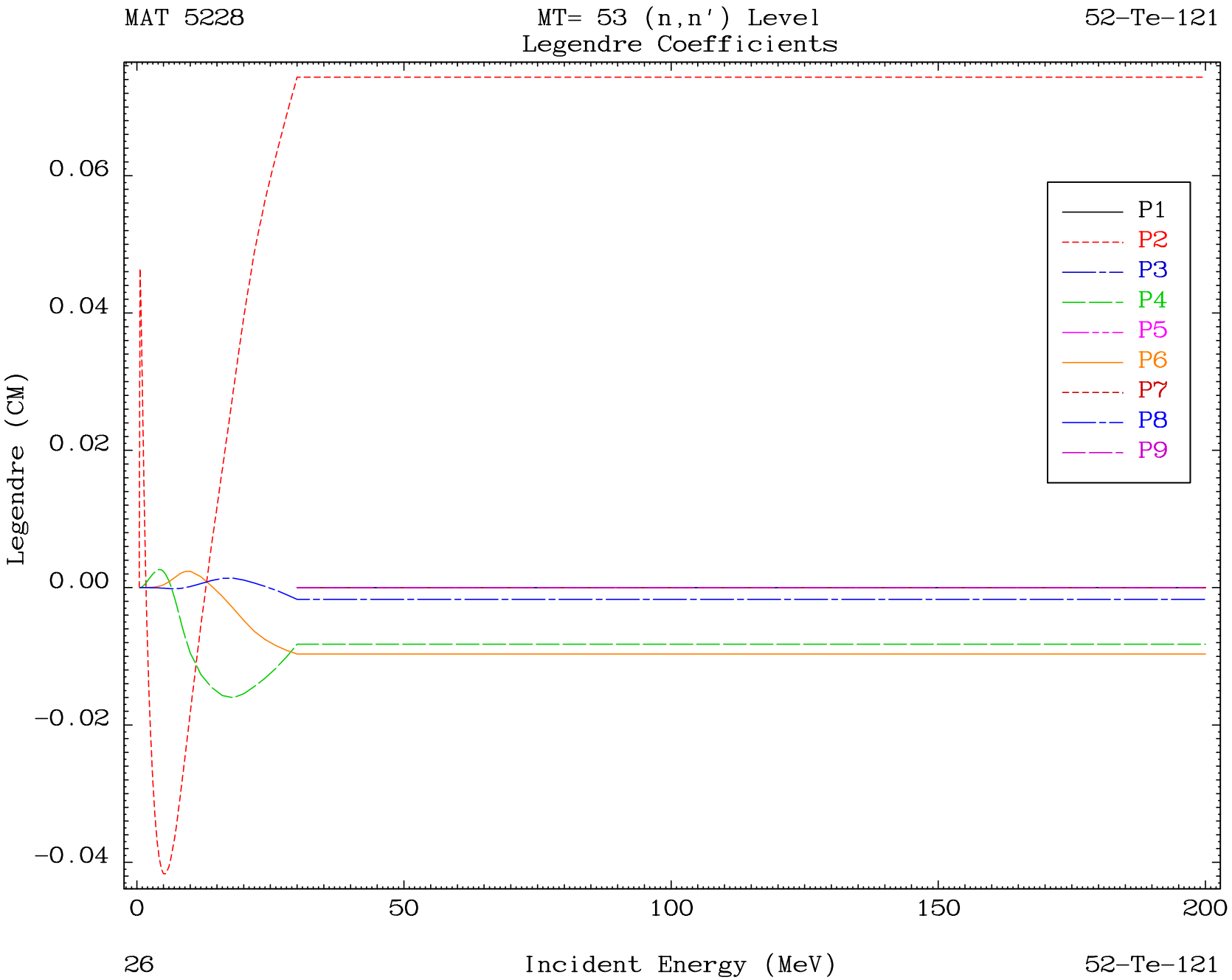
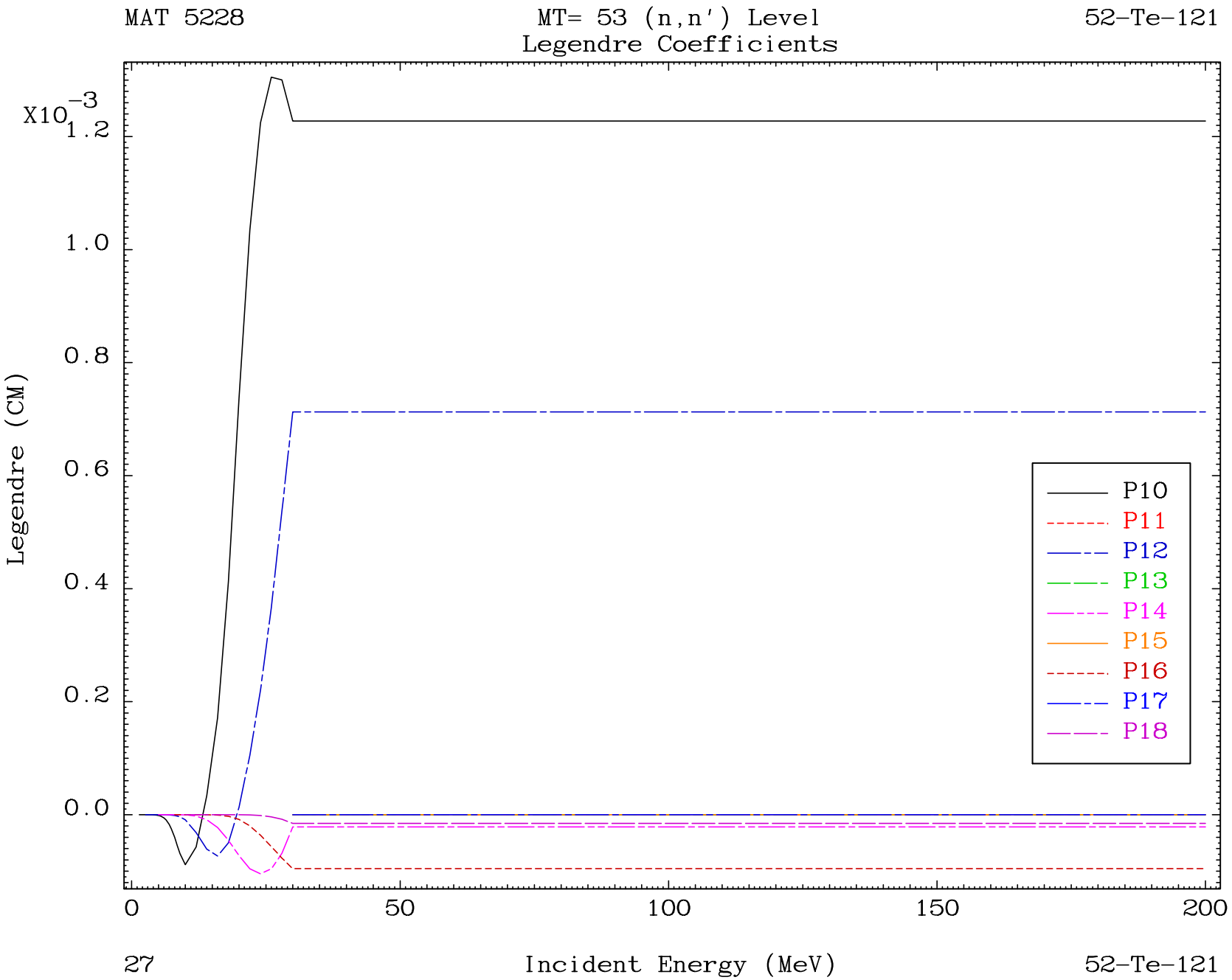
MT= 51 (n,n') Level
Legendre Coefficients
52-Te-121
0
X10^-6
-1
-2
-3
-4
Legendre (CM)
50
100
150
200
22
Incident Energy (MeV)
52-Te-121
P19
P20
P21
P22
P23
P24
P25
P26

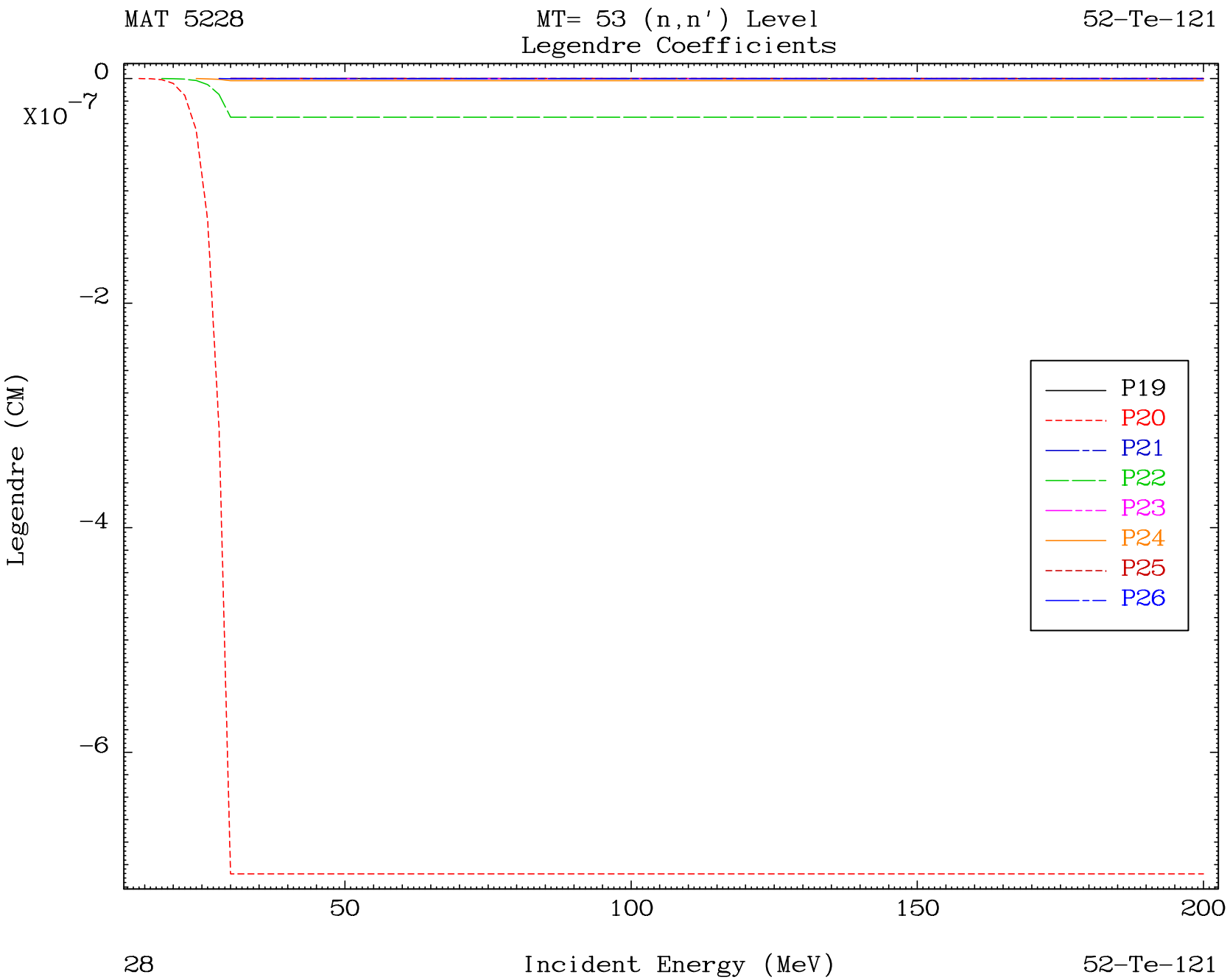

MAT 5228
MT= 52 (n,n') Level
Legendre Coefficients
52-Te-121
P1
P2
P3
P4
P5
P6
P7
P8
P9
0.02
0.00
-0.02
-0.04
Legendre (CM)
0
50
100
150
200
23
Incident Energy (MeV)
52-Te-121

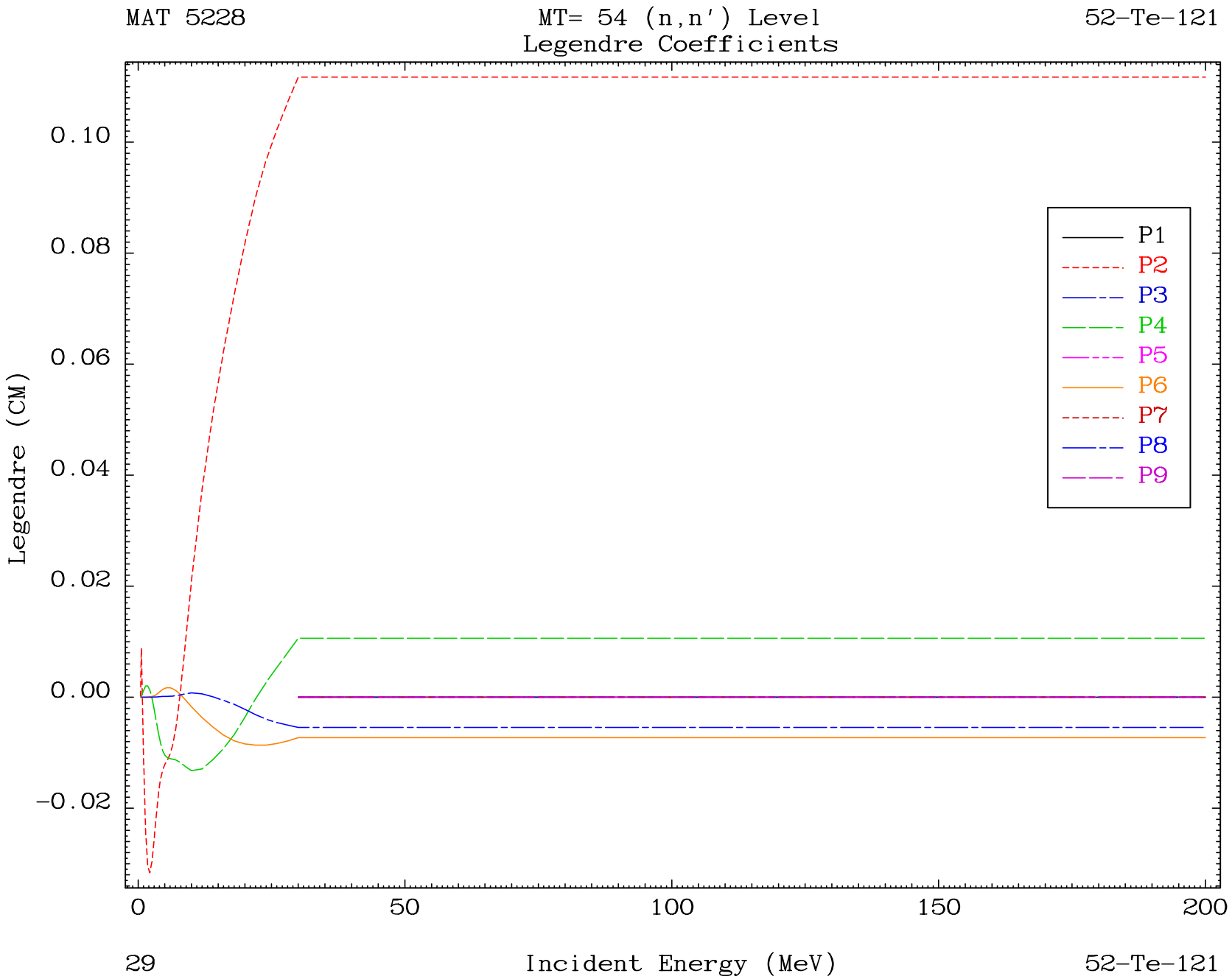

MAT 5228
MT= 52 (n,n') Level
Legendre Coefficients
52-Te-121
X10^-3
1.0
0.8
0.6
0.4
0.2
0.0
-0.2
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
24
Incident Energy (MeV)
52-Te-121

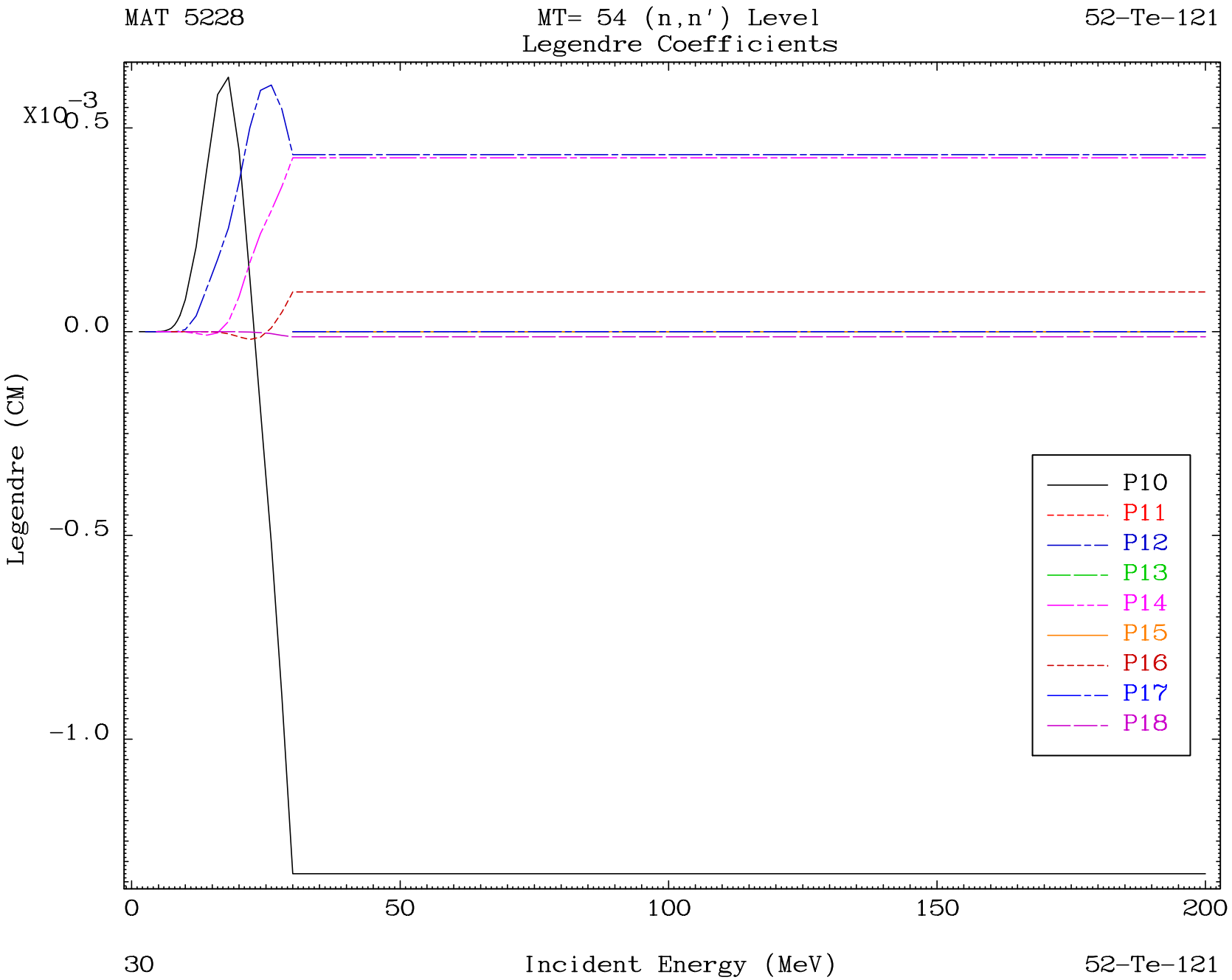

MAT 5228
MT= 52 (n,n') Level
Legendre Coefficients
52-Te-121
X10-7
6
4
2
0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
50
100
150
200
25
Incident Energy (MeV)
52-Te-121

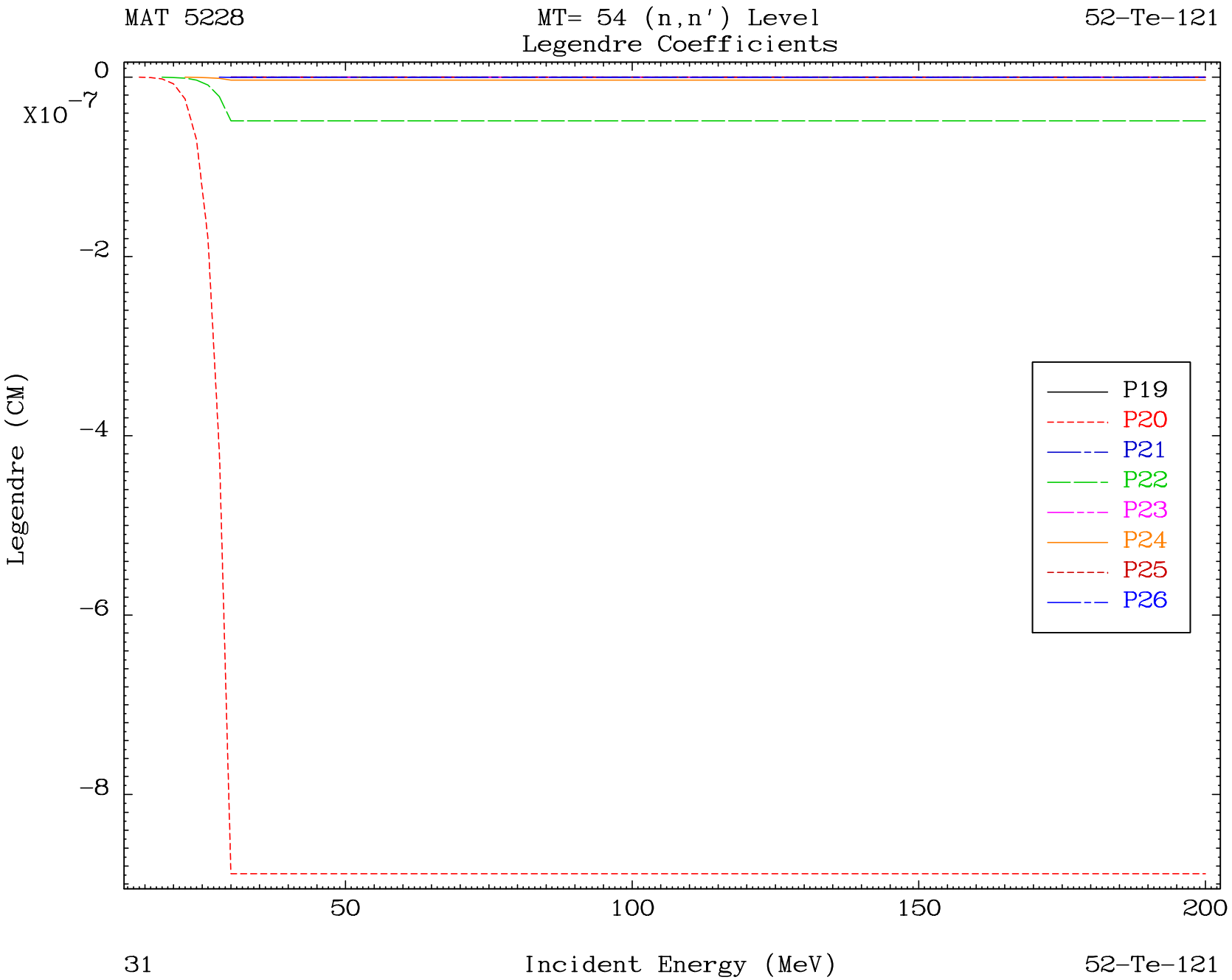

MAT 5228
MT= 53 (n,n') Level
Legendre Coefficients
52-Te-121
0.06
0.04
0.02
0.00
-0.02
-0.04
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
26
Incident Energy (MeV)
52-Te-121

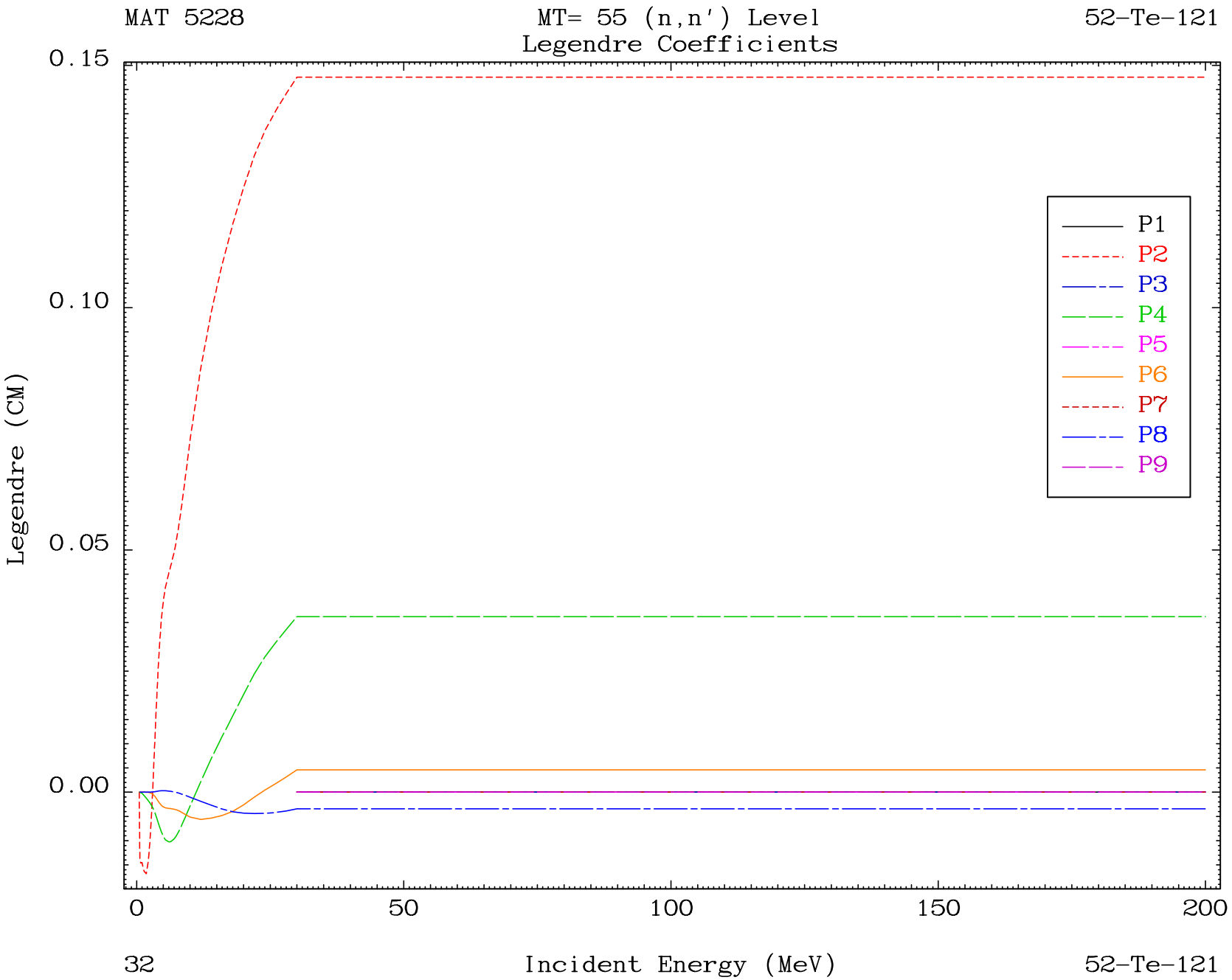

MAT 5228
MT= 53 (n,n') Level
Legendre Coefficients
52-Te-121
X10^-3
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
0
50
100
150
200
Incident Energy (MeV)
27
52-Te-121
P10
P11
P12
P13
P14
P15
P16
P17
P18

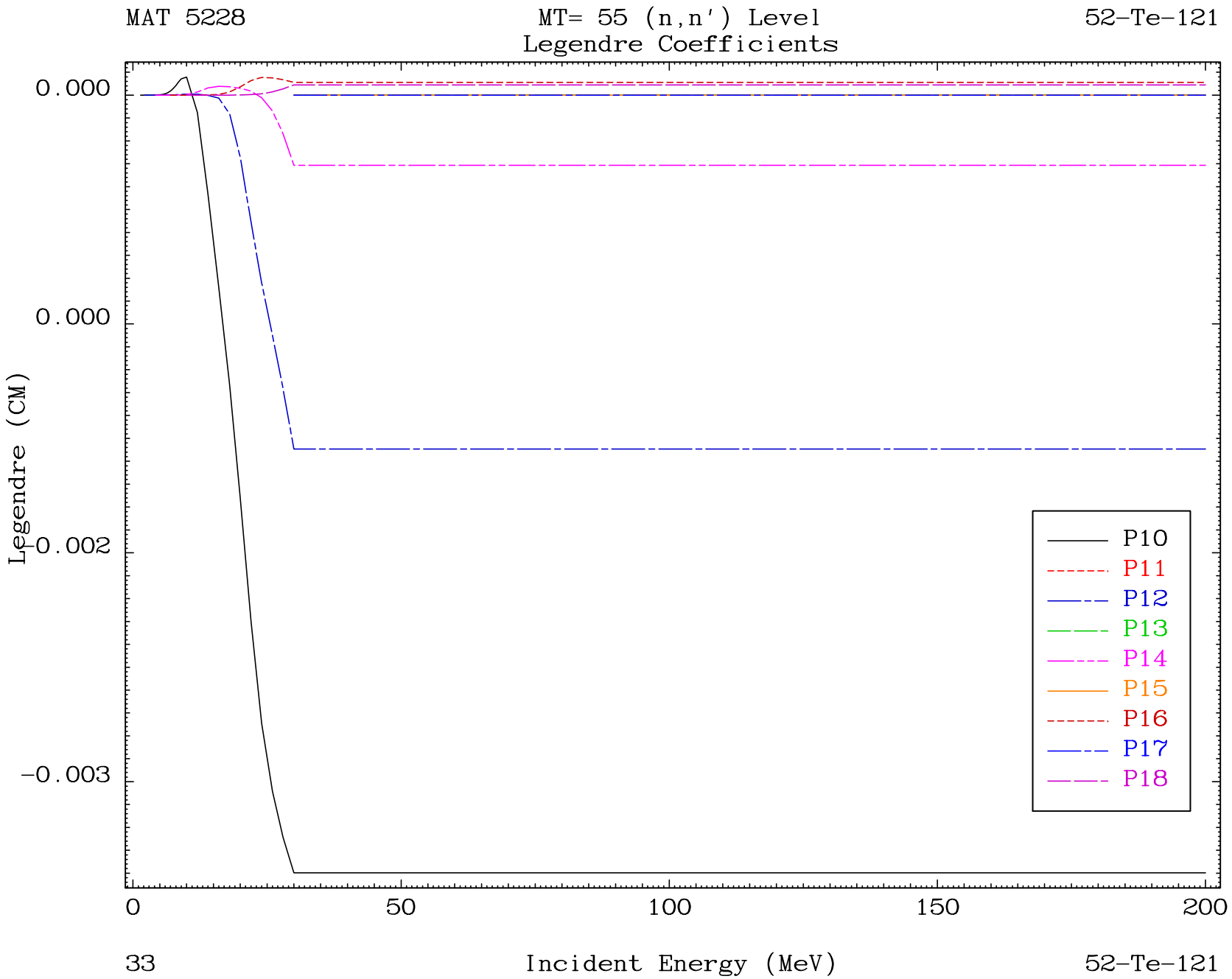

MAT 5228
MT= 53 (n,n') Level
Legendre Coefficients
52-Te-121
0
X10-7
-2
-4
-6
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
50
100
150
200
28
Incident Energy (MeV)
52-Te-121

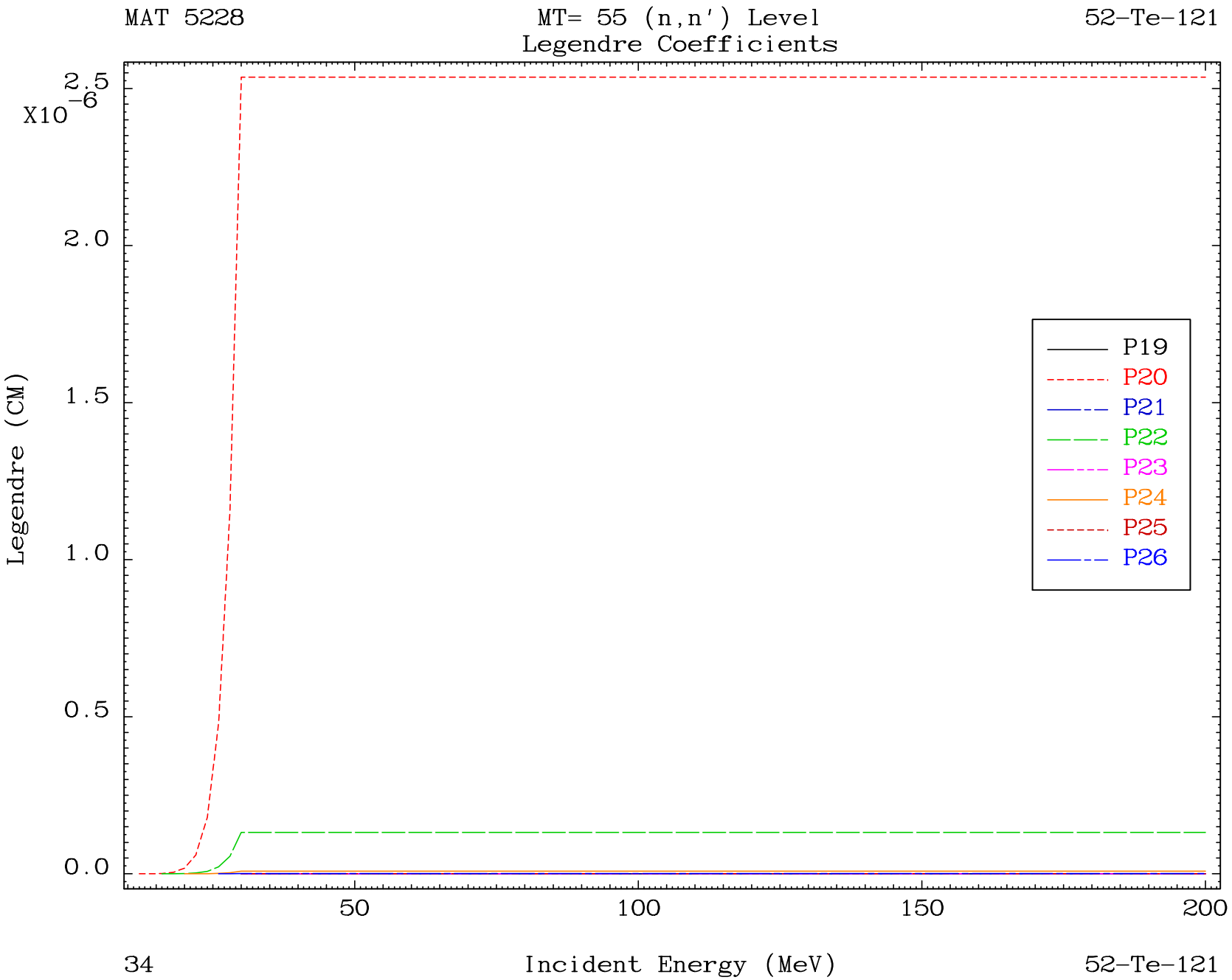

MAT 5228
MT= 54 (n,n') Level
Legendre Coefficients
52-Te-121
0.10
0.08
0.06
0.04
0.02
0.00
-0.02
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
29
Incident Energy (MeV)
52-Te-121

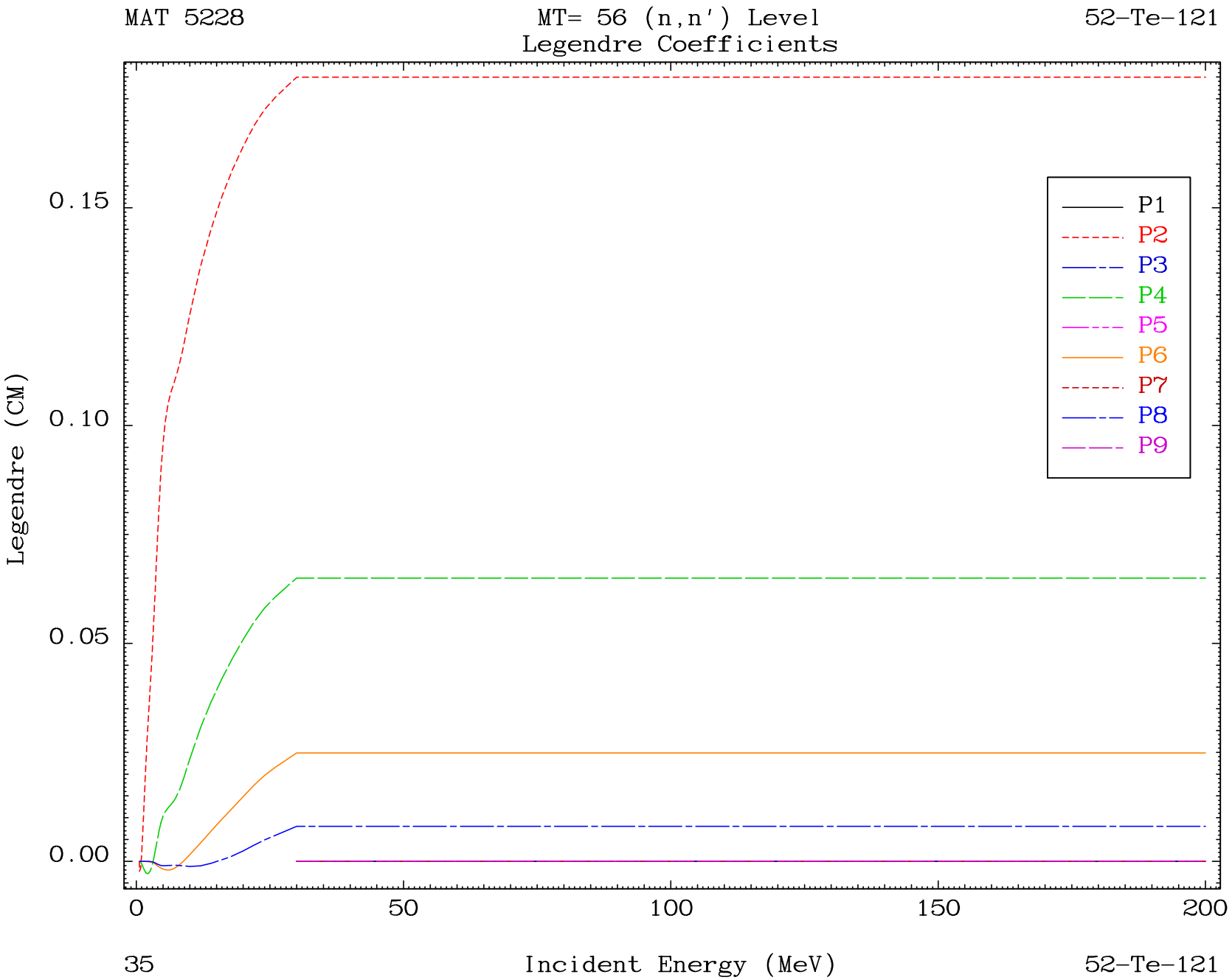

MAT 5228
MT= 54 (n,n') Level
Legendre Coefficients
52-Te-121
X10-3
0.5
0.0
-0.5
-1.0
Legendre (CM)
0
50
100
150
200
30
Incident Energy (MeV)
52-Te-121
P10
P11
P12
P13
P14
P15
P16
P17
P18

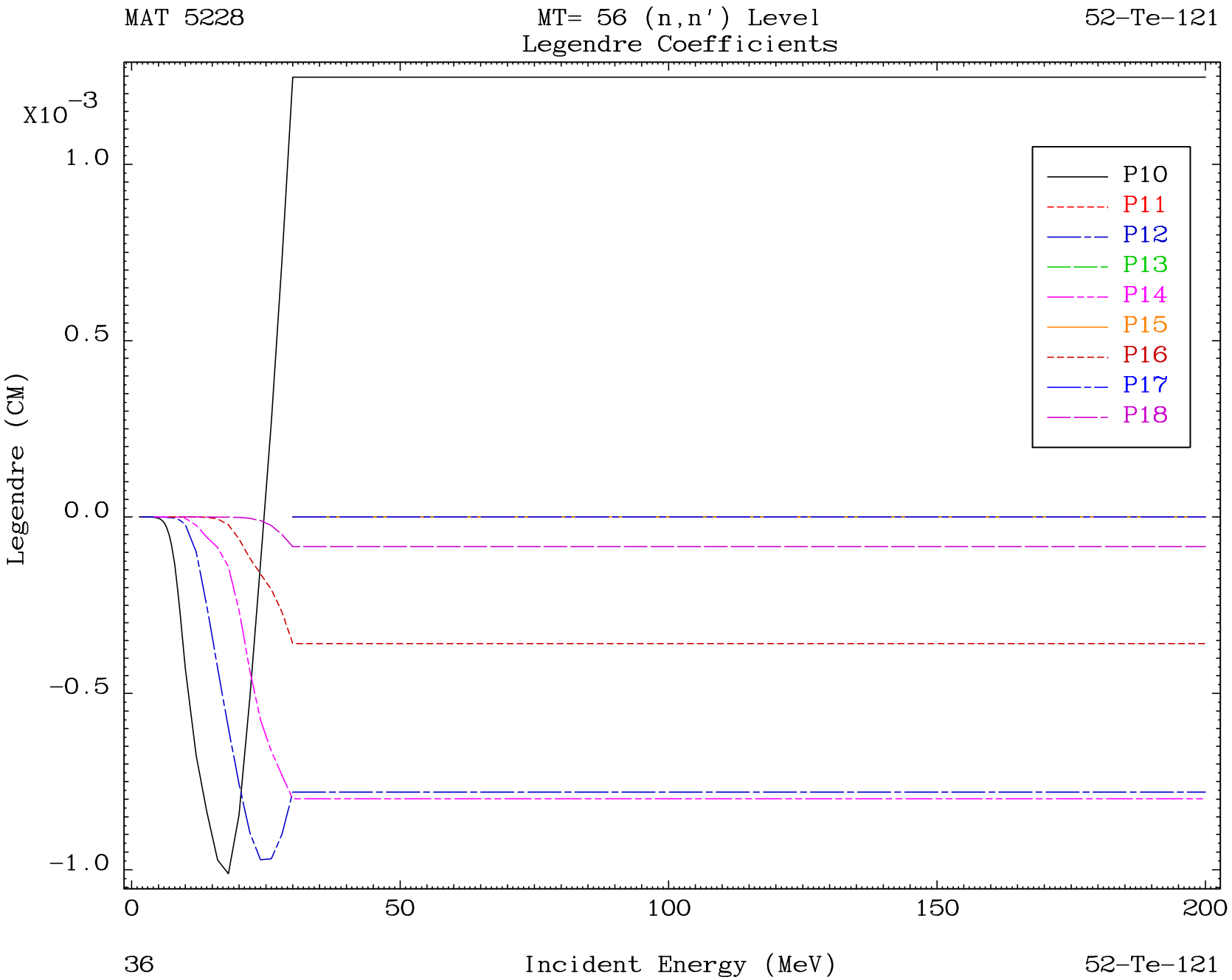

MAT 5228
MT= 54 (n,n') Level
Legendre Coefficients
52-Te-121
0
X10-7
-2
-4
-6
-8
Legendre (CM)
50
100
150
200
P19
P20
P21
P22
P23
P24
P25
P26
31
Incident Energy (MeV)
52-Te-121

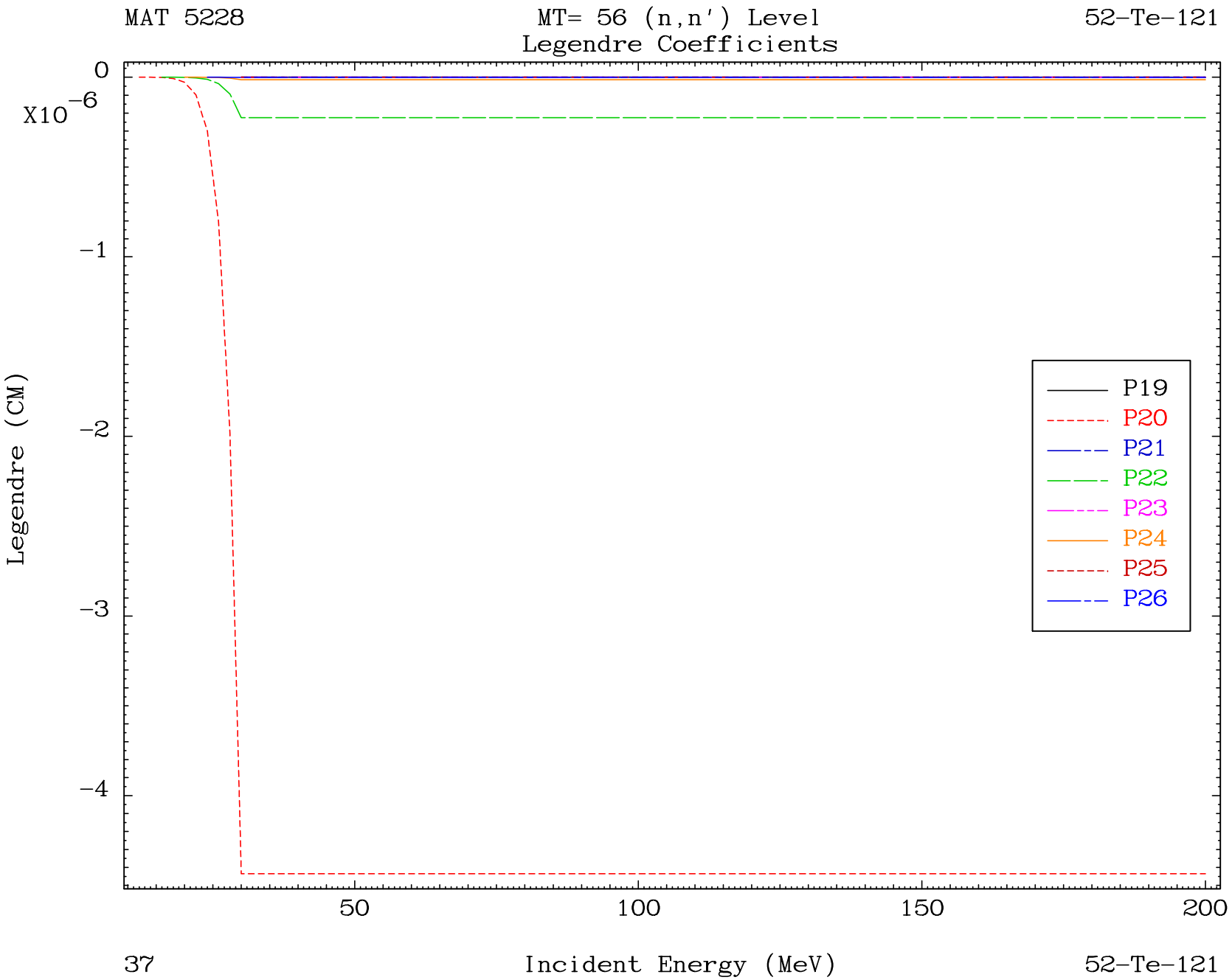

MAT 5228
MT= 55 (n,n') Level
Legendre Coefficients
52-Te-121
0.15
0.10
0.05
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
32
Incident Energy (MeV)
52-Te-121

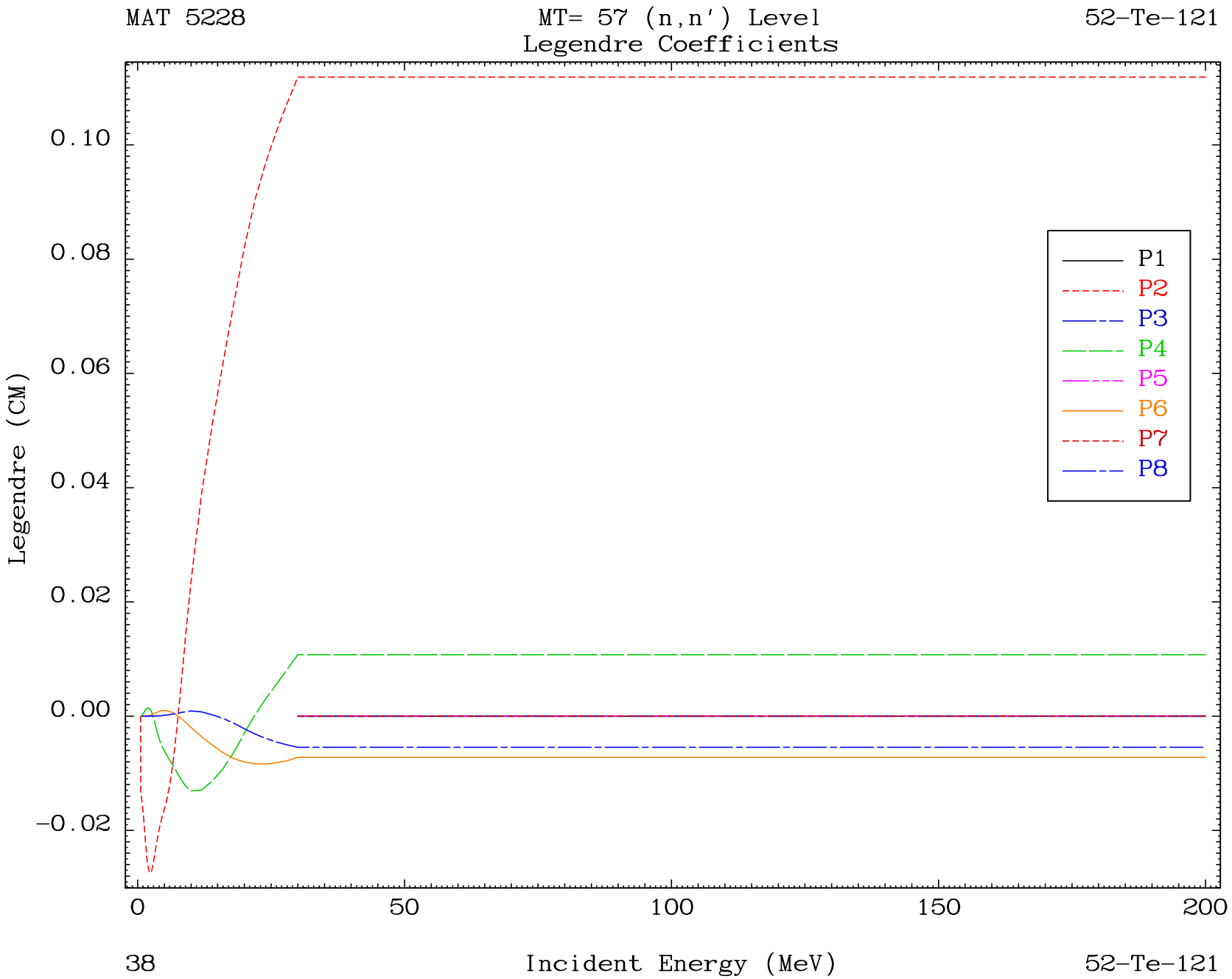

MAT 5228
MT= 55 (n,n') Level
Legendre Coefficients
52-Te-121
0.000
0.000
-0.002
-0.003
Legendre (CM)
0
50
100
150
200
33
Incident Energy (MeV)
52-Te-121
P10
P11
P12
P13
P14
P15
P16
P17
P18

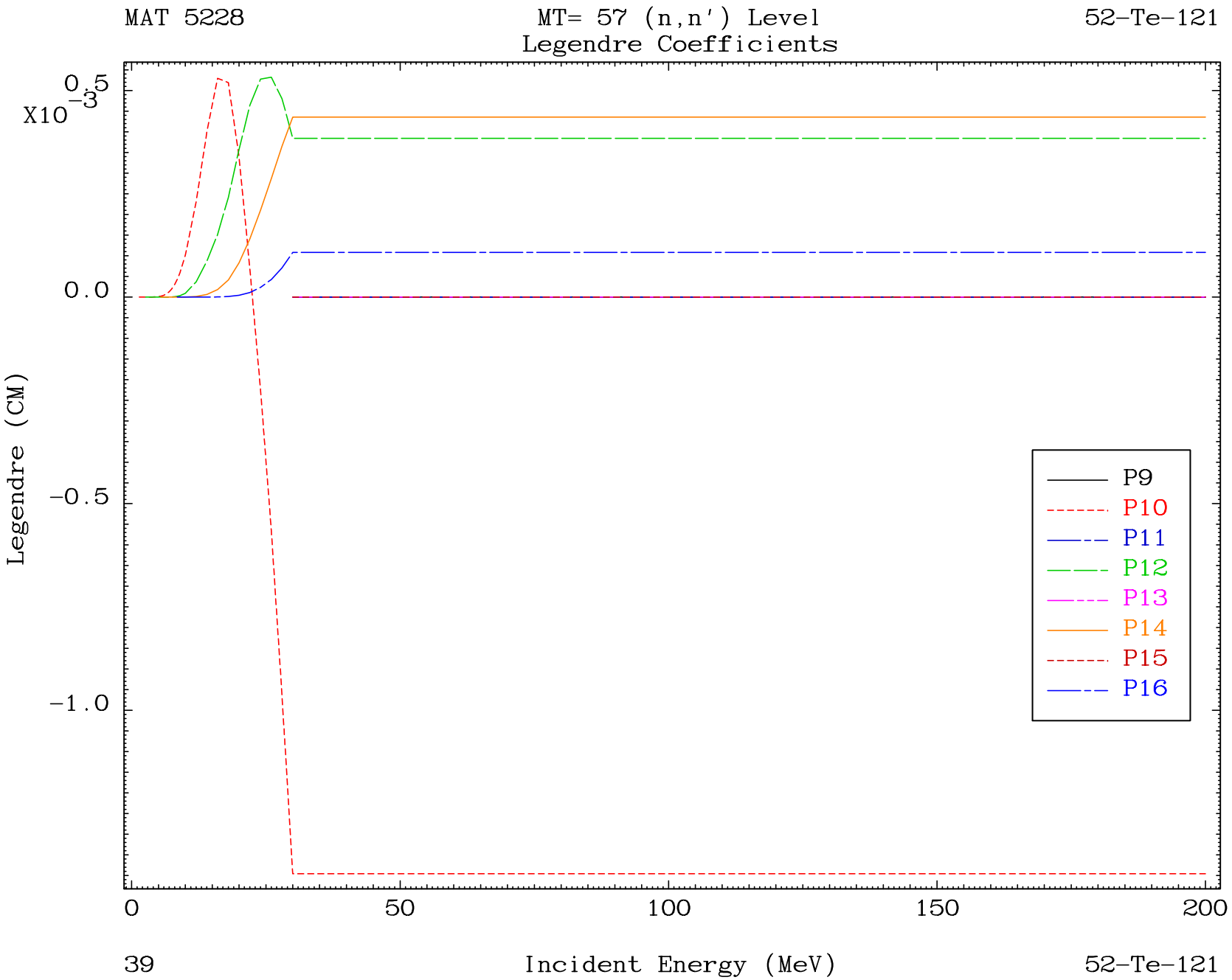

MAT 5228
MT= 55 (n,n') Level
Legendre Coefficients
52-Te-121
X10 -6
2.5
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
50
100
150
200
34
Incident Energy (MeV)
52-Te-121
P19
P20
P21
P22
P23
P24
P25
P26

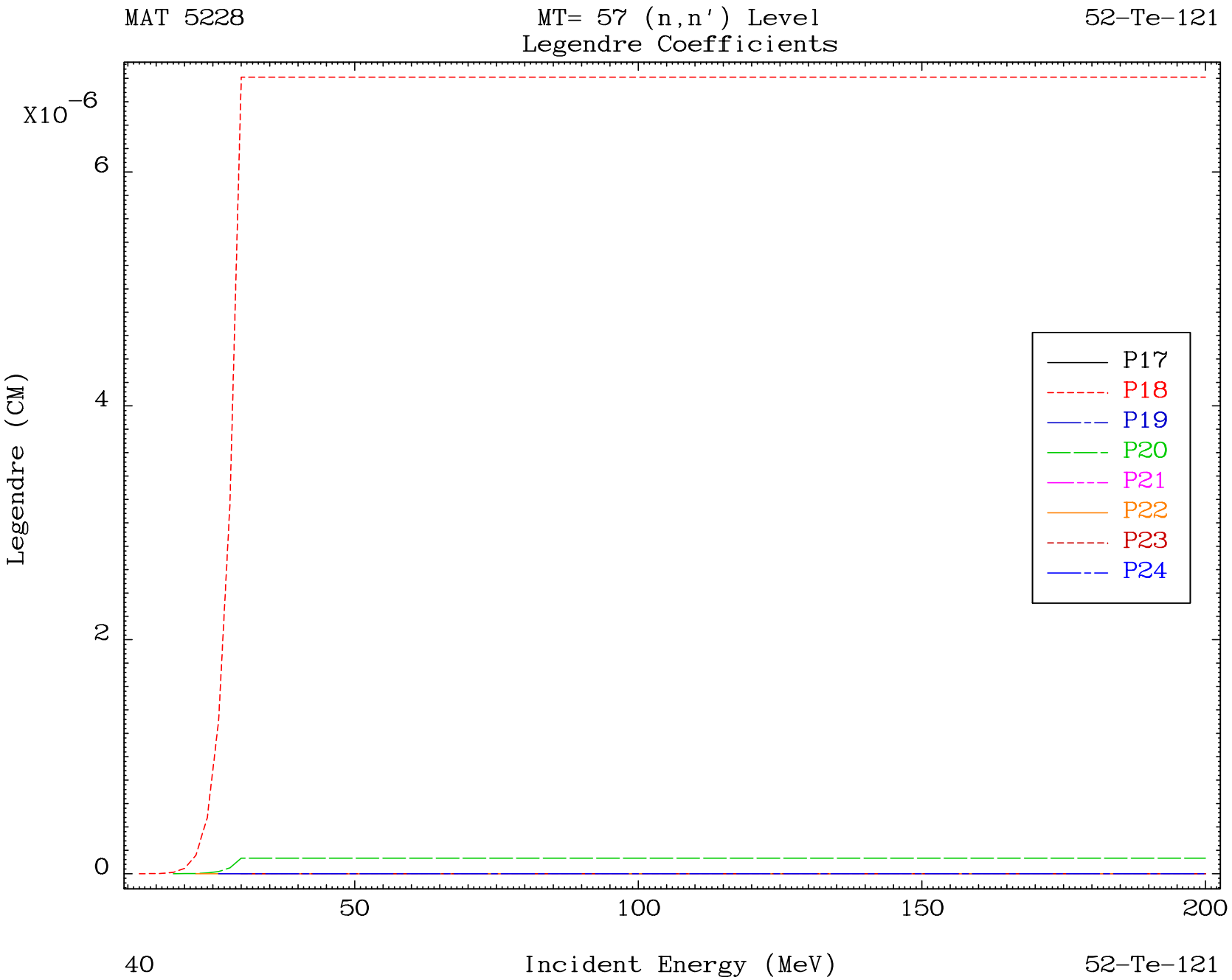

MAT 5228
MT= 56 (n,n') Level
Legendre Coefficients
52-Te-121
Legendre (CM)
0.15
0.10
0.05
0.00
0
50
100
150
200
35
Incident Energy (MeV)
52-Te-121
P1
P2
P3
P4
P5
P6
P7
P8
P9

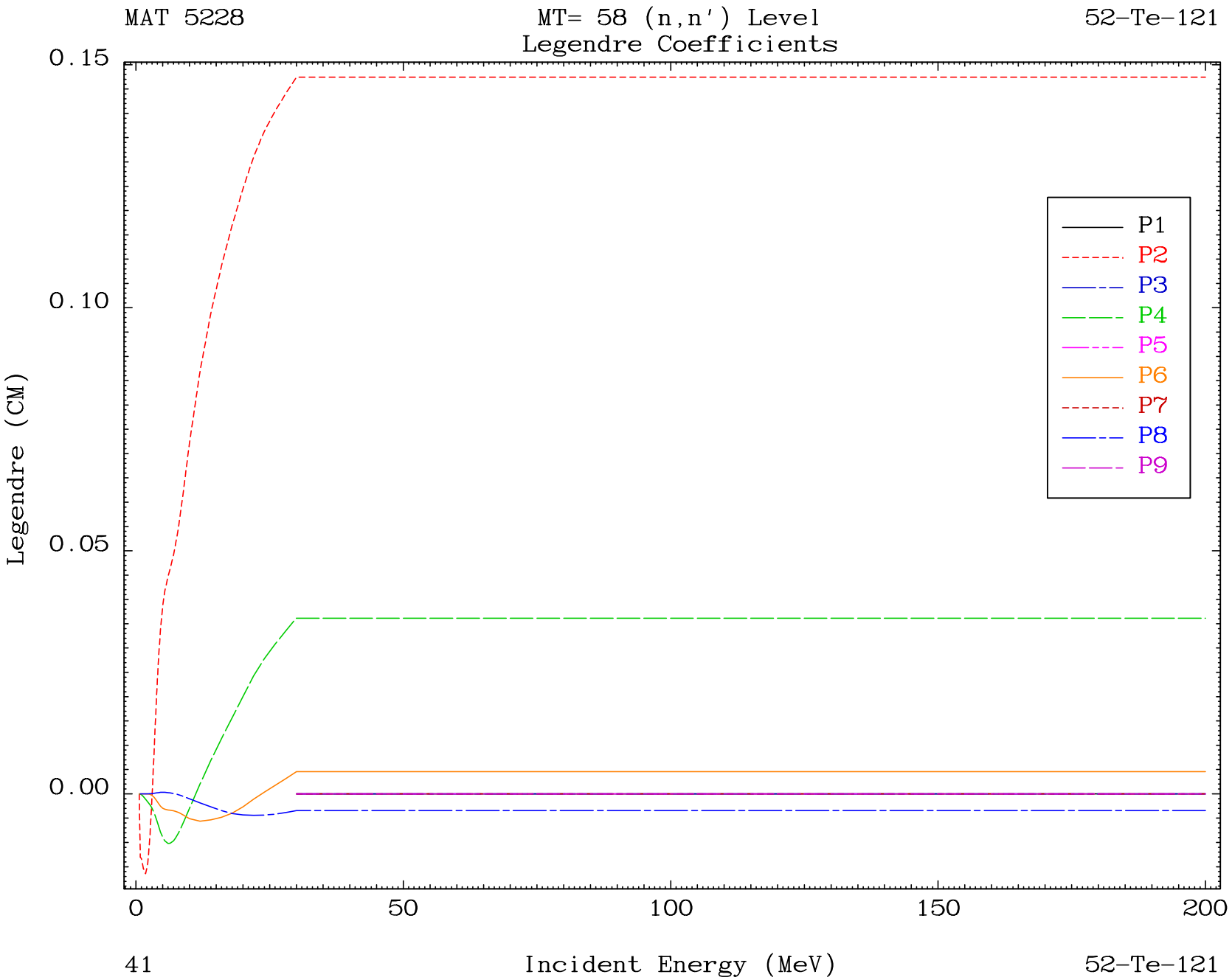

MAT 5228
MT= 56 (n,n') Level
Legendre Coefficients
52-Te-121
X10^-3
1.0
0.5
0.0
-0.5
-1.0
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
36
Incident Energy (MeV)
52-Te-121

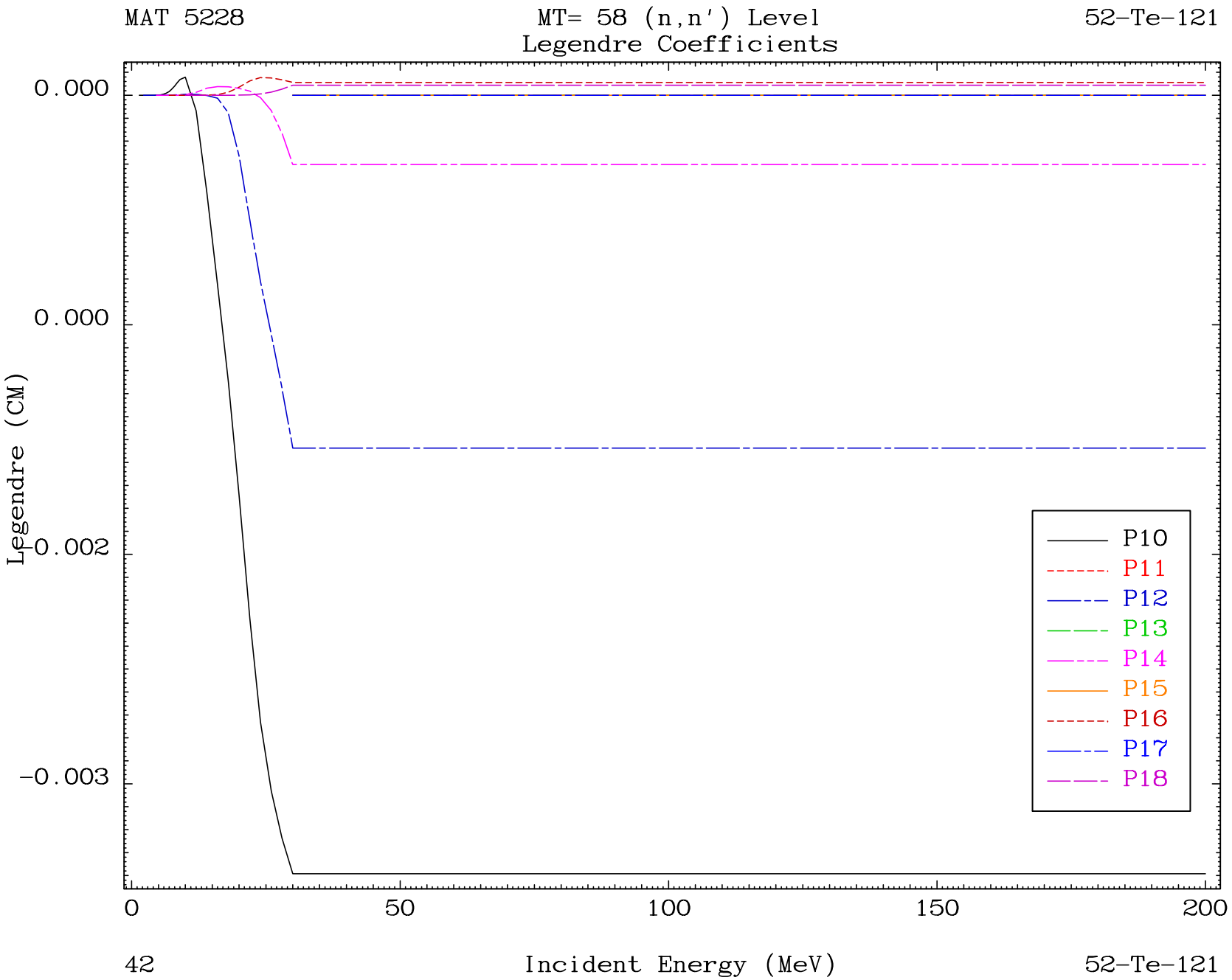

MAT 5228
MT= 56 (n,n') Level
Legendre Coefficients
52-Te-121
0
X10−6
−1
−2
−3
−4
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
50
100
150
200
37
Incident Energy (MeV)
52-Te-121

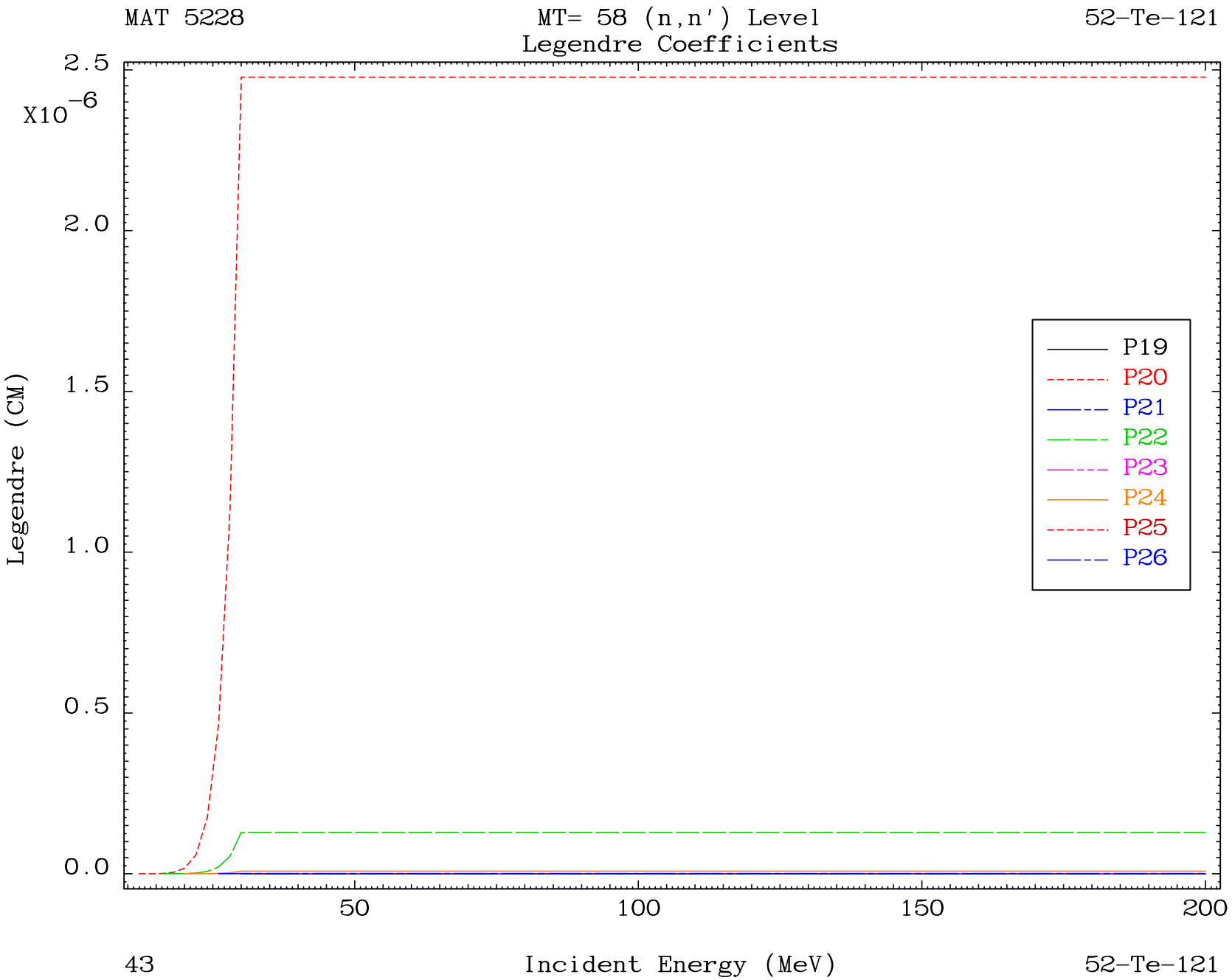

MAT 5228
MT= 57 (n,n') Level
Legendre Coefficients
52-Te-121
0.10
0.08
0.06
0.04
0.02
0.00
-0.02
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
0
50
100
150
200
38
Incident Energy (MeV)
52-Te-121

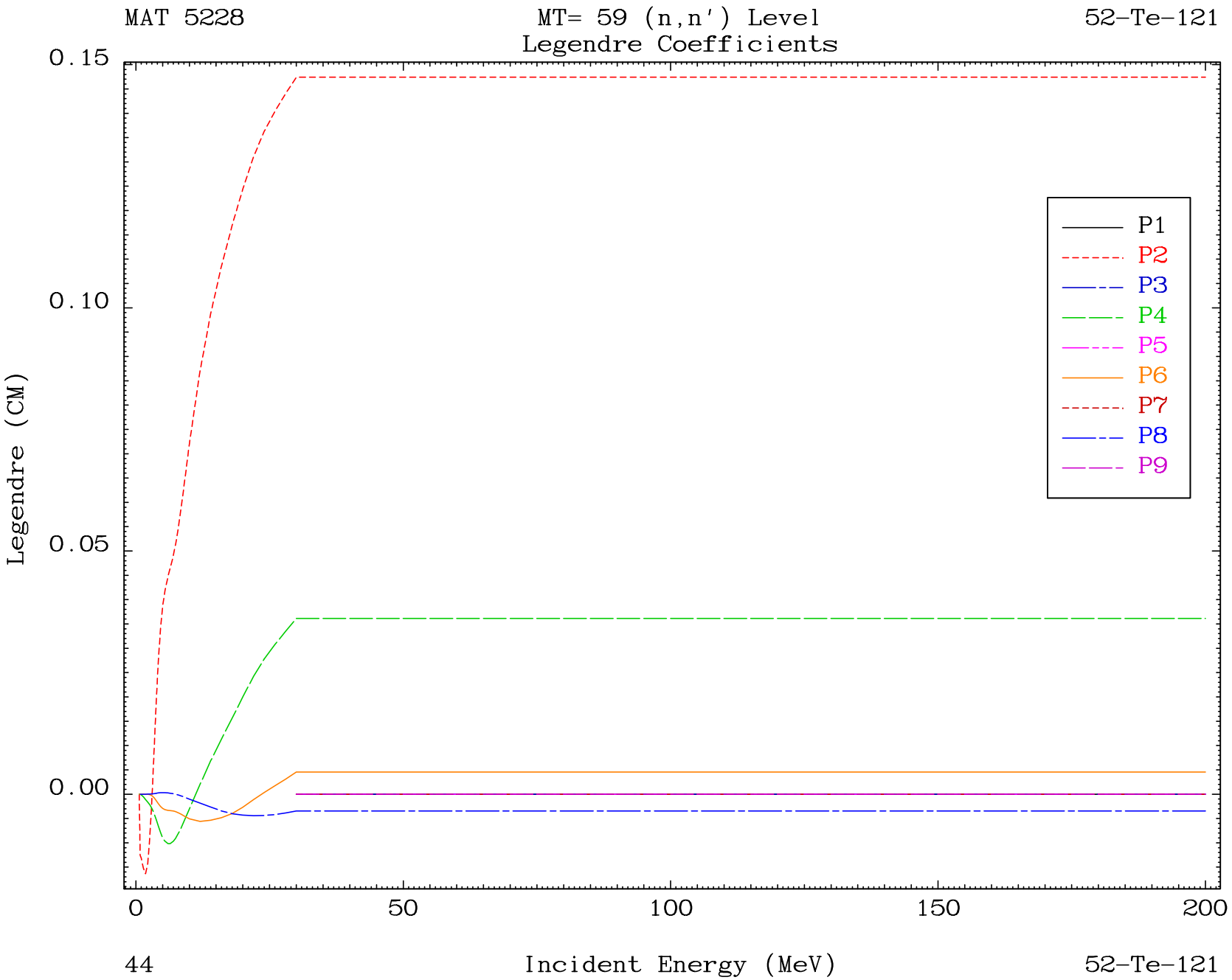

MAT 5228
MT= 57 (n,n') Level
Legendre Coefficients
52-Te-121
X10-3
0.5
0.0
-0.5
-1.0
Legendre (CM)
0
50
100
150
200
39
Incident Energy (MeV)
52-Te-121
P9
P10
P11
P12
P13
P14
P15
P16

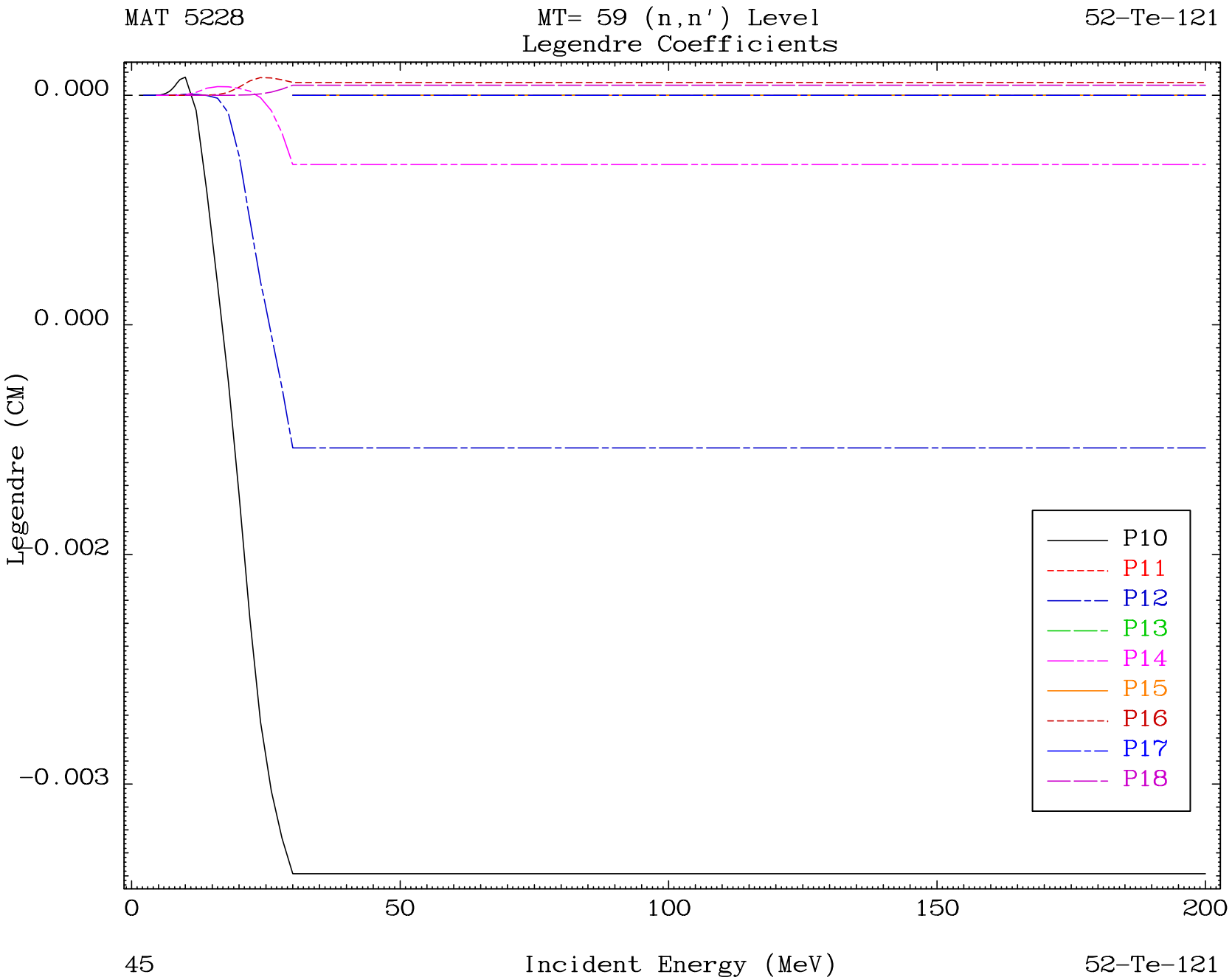

MAT 5228
MT= 57 (n,n') Level
Legendre Coefficients
52-Te-121
X10^-6
6
4
2
0
Legendre (CM)
50
100
150
200
40
Incident Energy (MeV)
52-Te-121
P17
P18
P19
P20
P21
P22
P23
P24

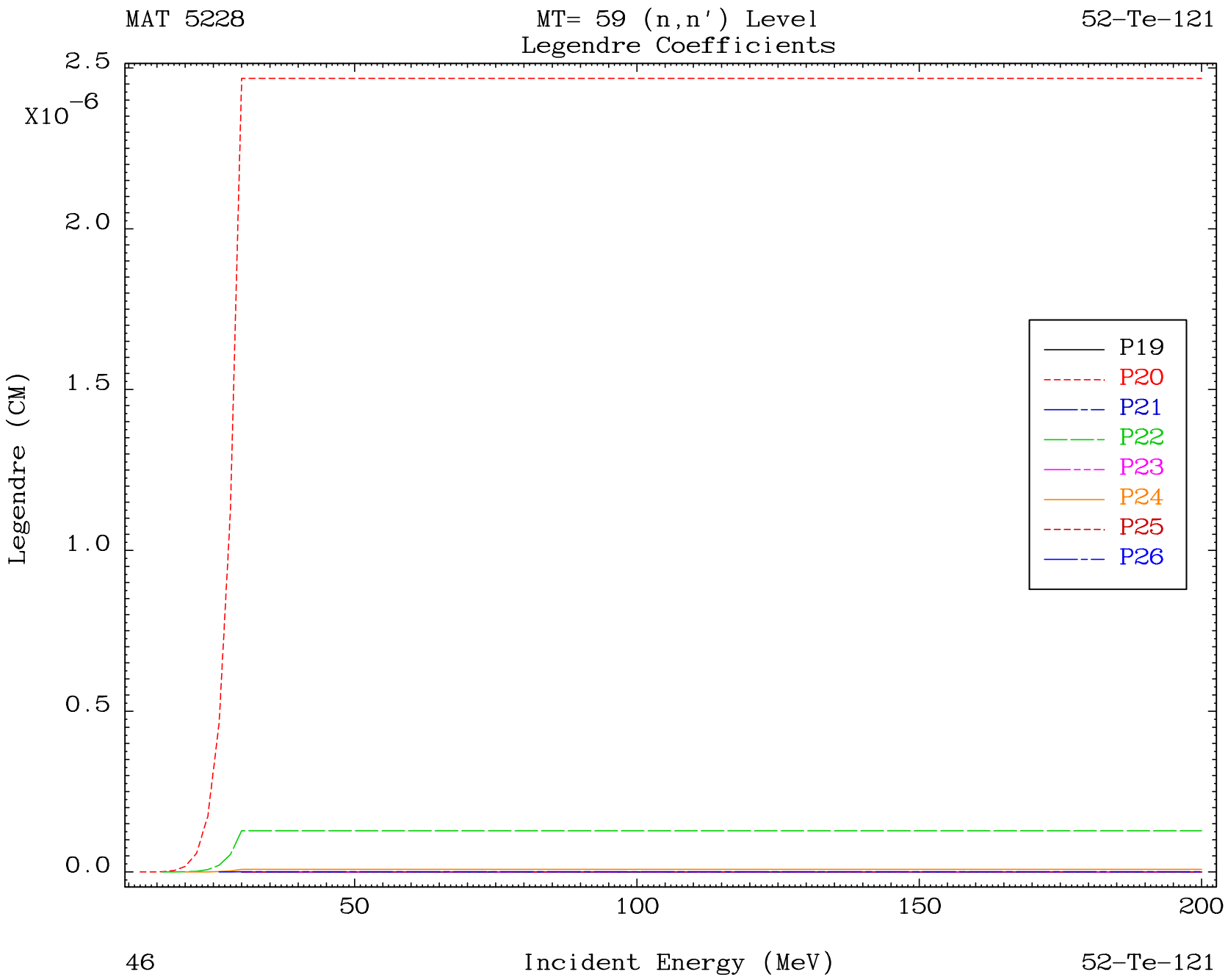

MAT 5228
MT= 58 (n,n') Level
Legendre Coefficients
52-Te-121
0.15
0.10
0.05
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
41
Incident Energy (MeV)
52-Te-121

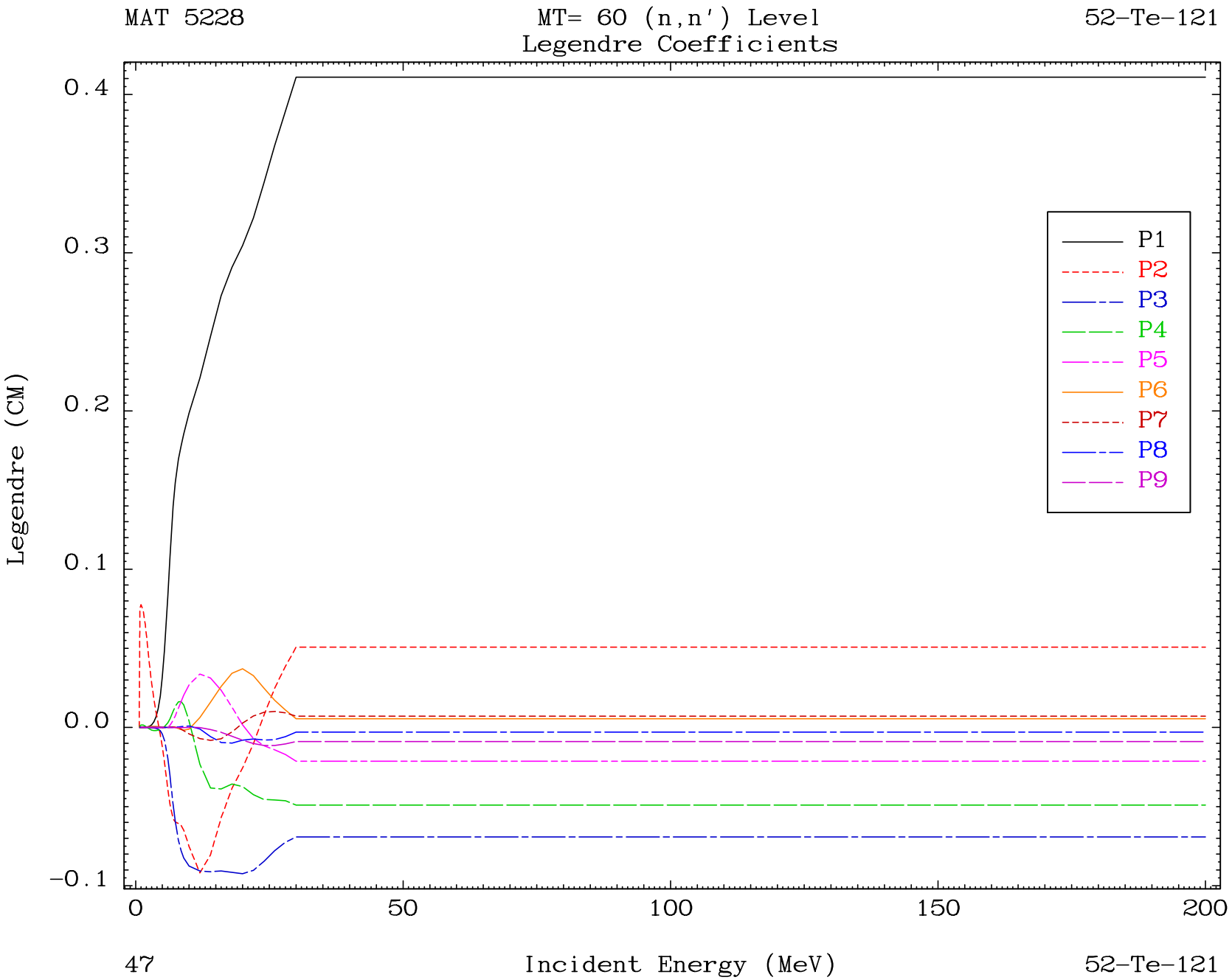

MAT 5228
MT= 58 (n,n') Level
Legendre Coefficients
52-Te-121
0.000
0.000
-0.002
-0.003
Legendre (CM)
0
50
100
150
200
42
Incident Energy (MeV)
52-Te-121
P10
P11
P12
P13
P14
P15
P16
P17
P18

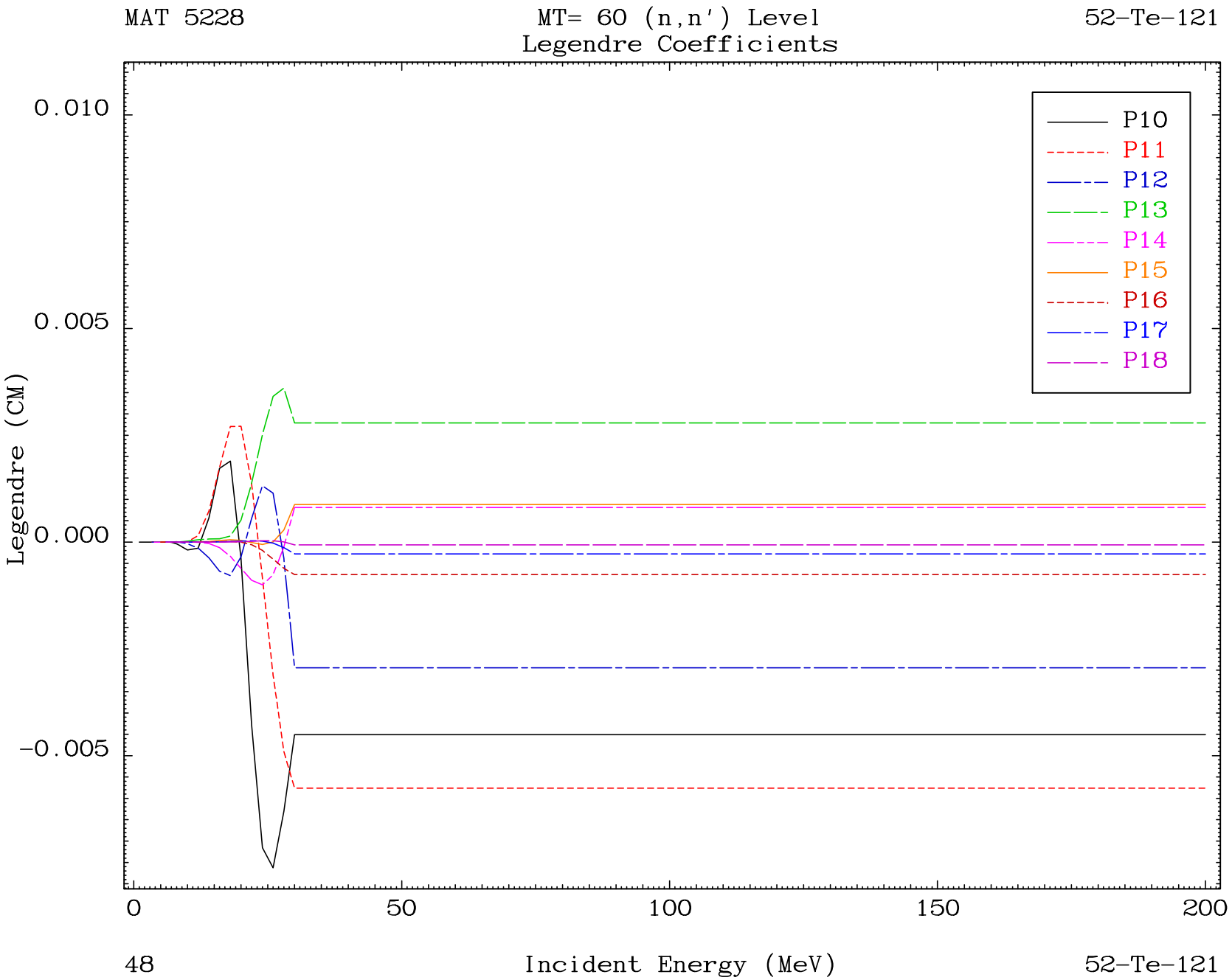

MAT 5228
MT= 58 (n,n') Level
Legendre Coefficients
52-Te-121
X10 −6
2.5
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
50
100
150
200
Incident Energy (MeV)
P19
P20
P21
P22
P23
P24
P25
P26
43
52-Te-121

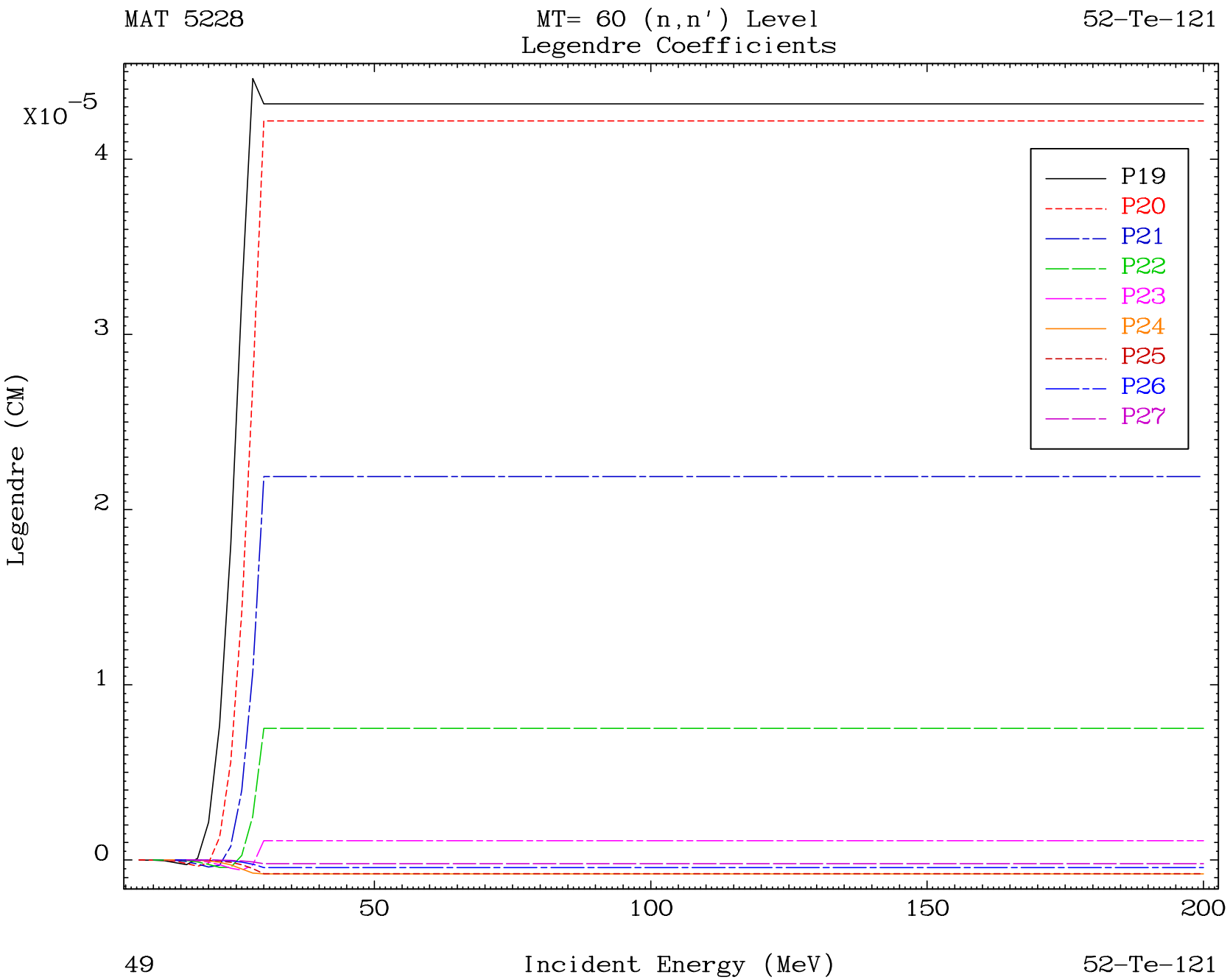

MAT 5228
MT= 59 (n,n') Level
Legendre Coefficients
52-Te-121
0.15
0.10
0.05
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
44
Incident Energy (MeV)
52-Te-121

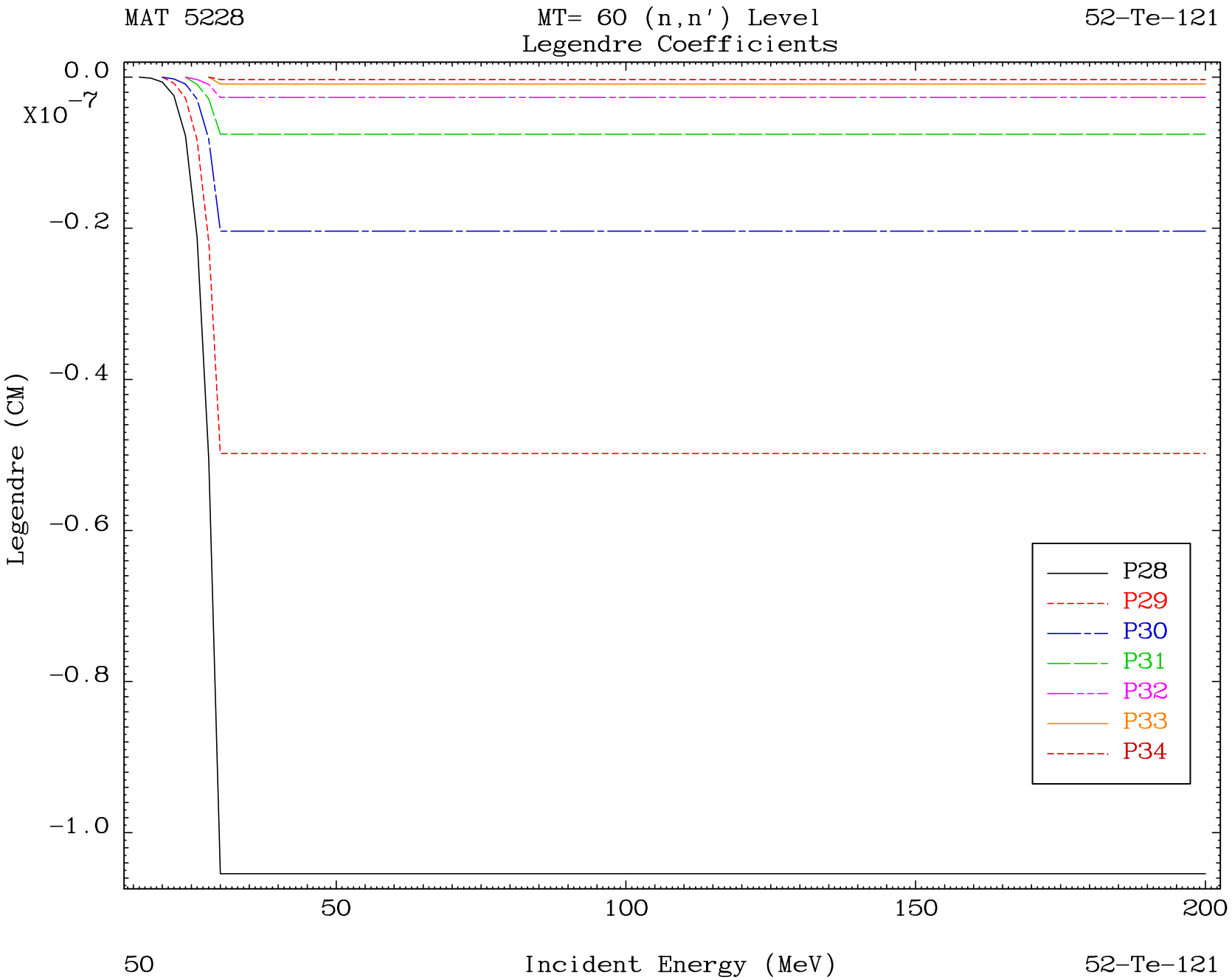

MAT 5228
MT= 59 (n,n') Level
Legendre Coefficients
52-Te-121
0.000
0.000
-0.002
-0.003
Legendre (CM)
0
50
100
150
200
45
Incident Energy (MeV)
52-Te-121
P10
P11
P12
P13
P14
P15
P16
P17
P18

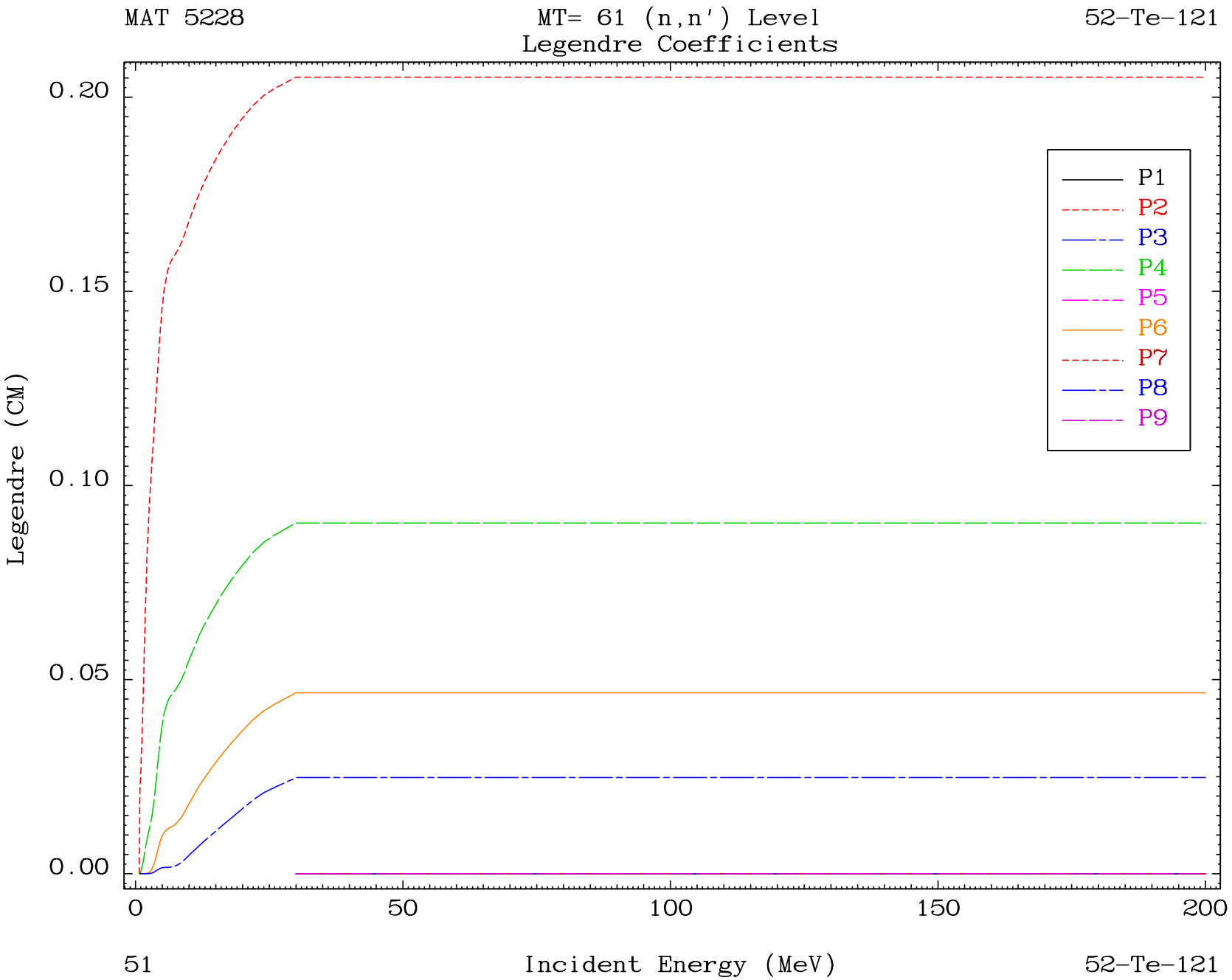

MAT 5228
MT= 59 (n,n') Level
Legendre Coefficients
52-Te-121
X10^-6
2.5
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
50
100
150
200
Incident Energy (MeV)
46
52-Te-121
P19
P20
P21
P22
P23
P24
P25
P26

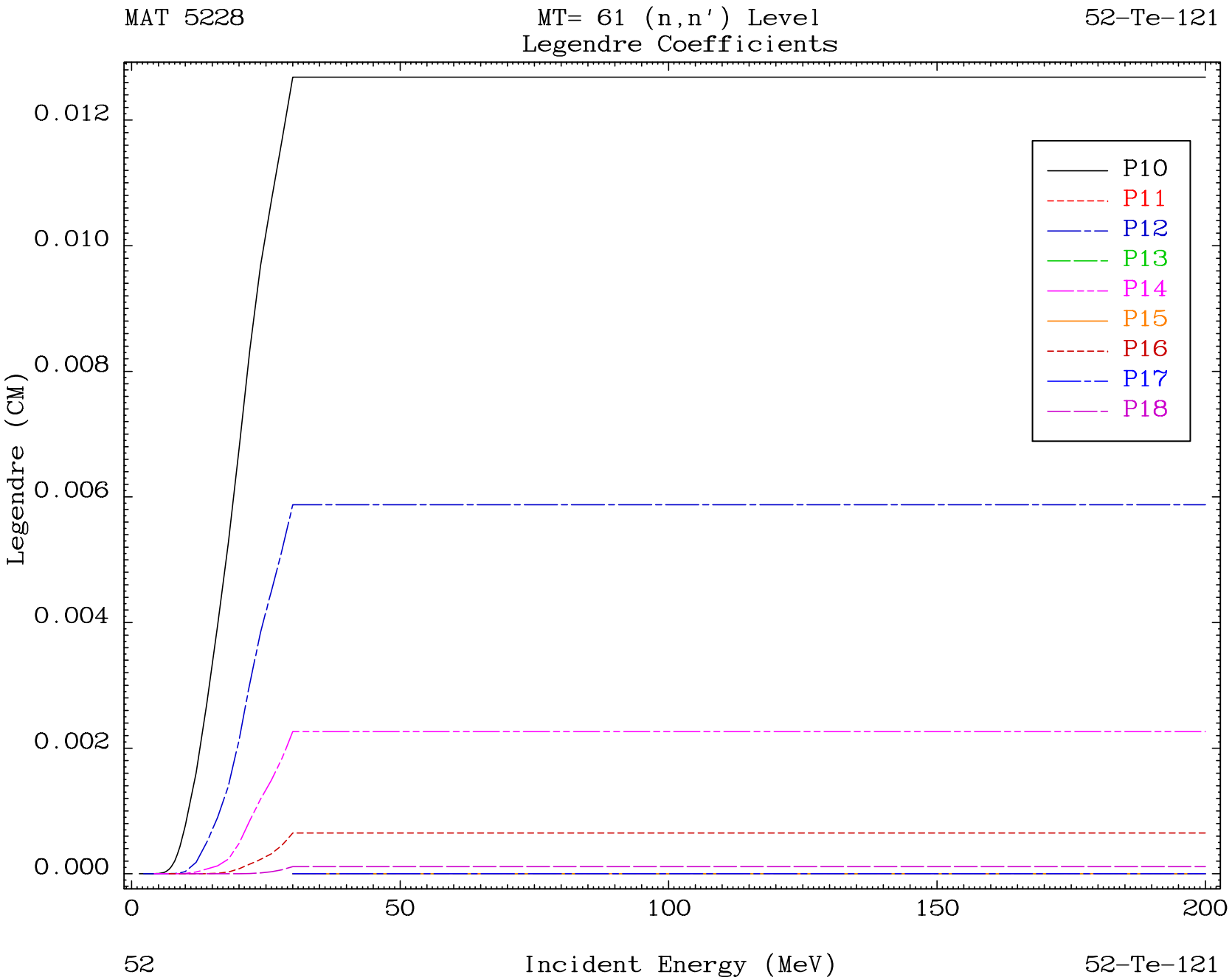

MAT 5228
MT= 60 (n,n') Level
Legendre Coefficients
52-Te-121
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
-0.1
0
50
100
150
200
47
Incident Energy (MeV)
52-Te-121
P1
P2
P3
P4
P5
P6
P7
P8
P9

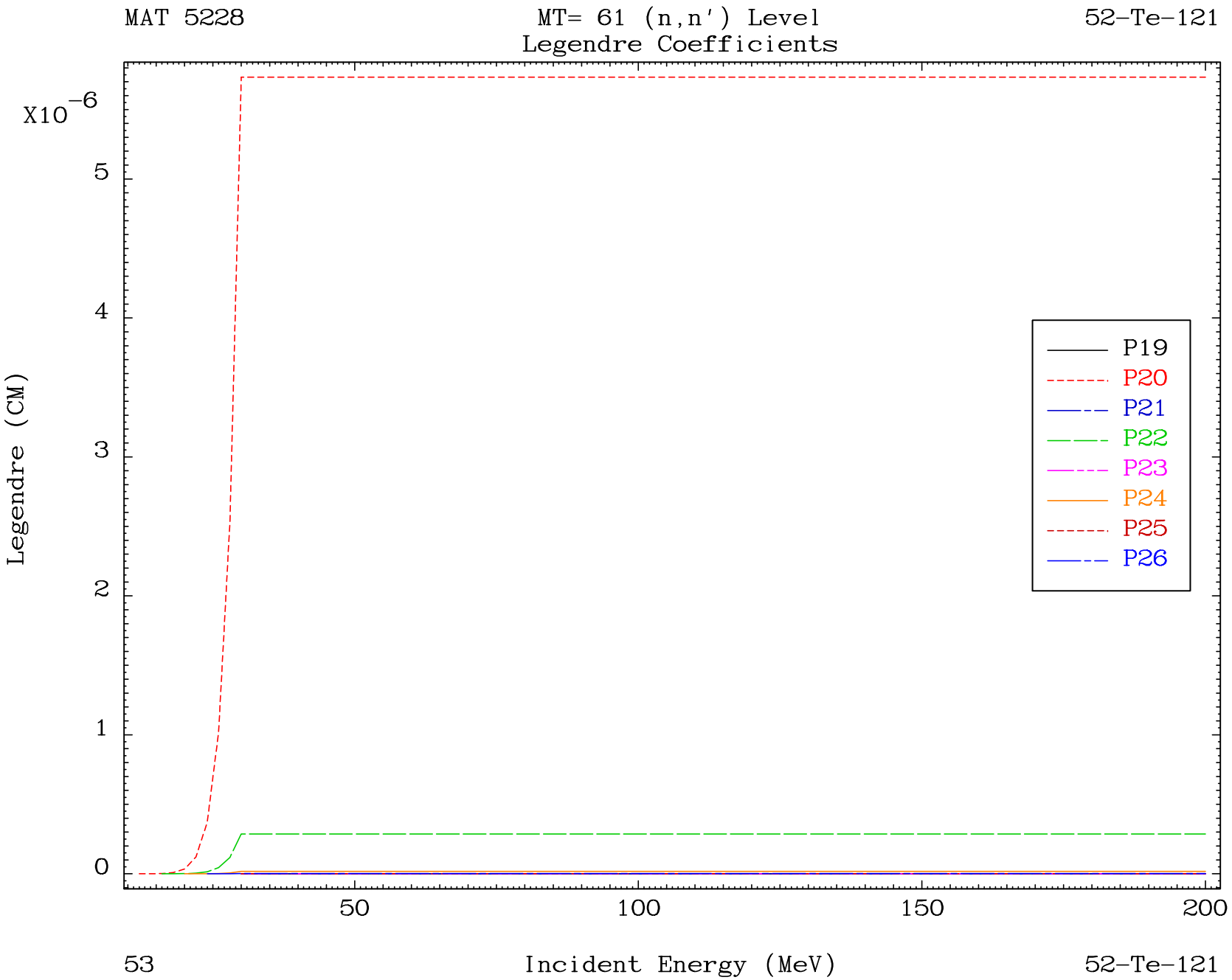

MAT 5228
MT= 60 (n,n') Level
Legendre Coefficients
52-Te-121
0.010
0.005
0.000
-0.005
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
48
Incident Energy (MeV)
52-Te-121

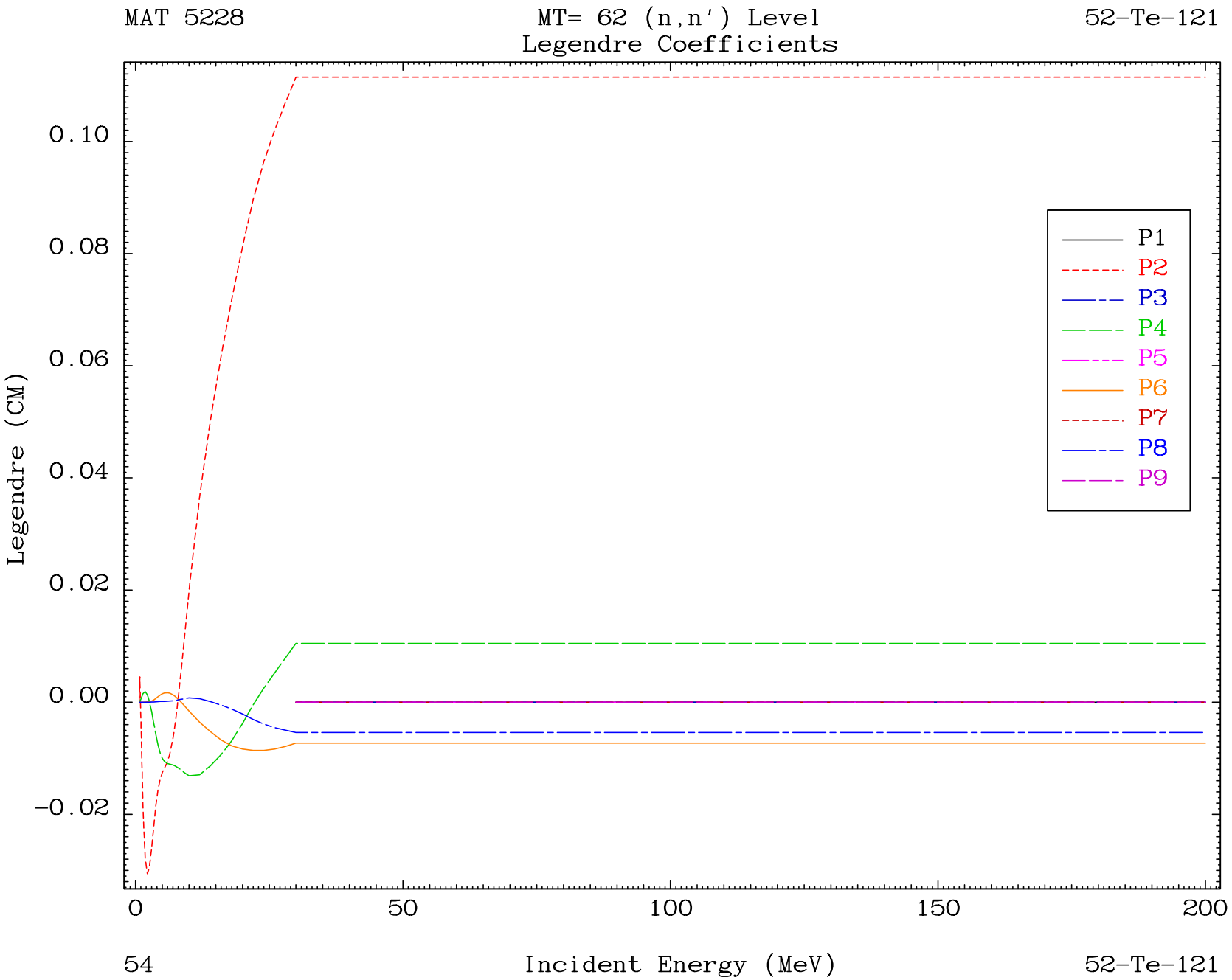

MAT 5228
MT= 60 (n,n') Level
Legendre Coefficients
52-Te-121
X10 -5
4
3
2
1
0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
49
Incident Energy (MeV)
52-Te-121

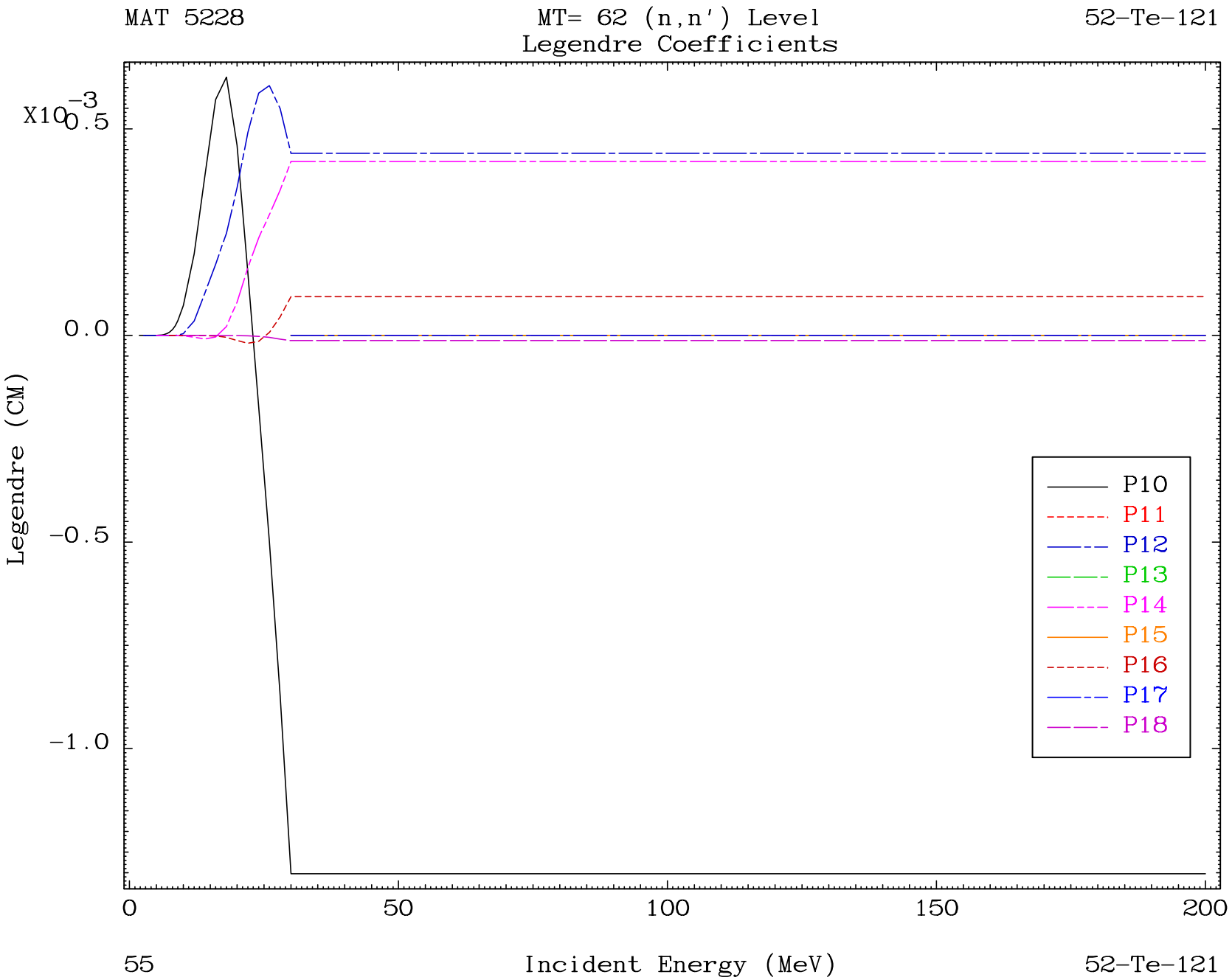

MAT 5228
MT= 60 (n,n') Level
Legendre Coefficients
52-Te-121
0.0
X10^-7
-0.2
-0.4
-0.6
-0.8
-1.0
Legendre (CM)
50
100
150
200
50
Incident Energy (MeV)
52-Te-121
P28
P29
P30
P31
P32
P33
P34

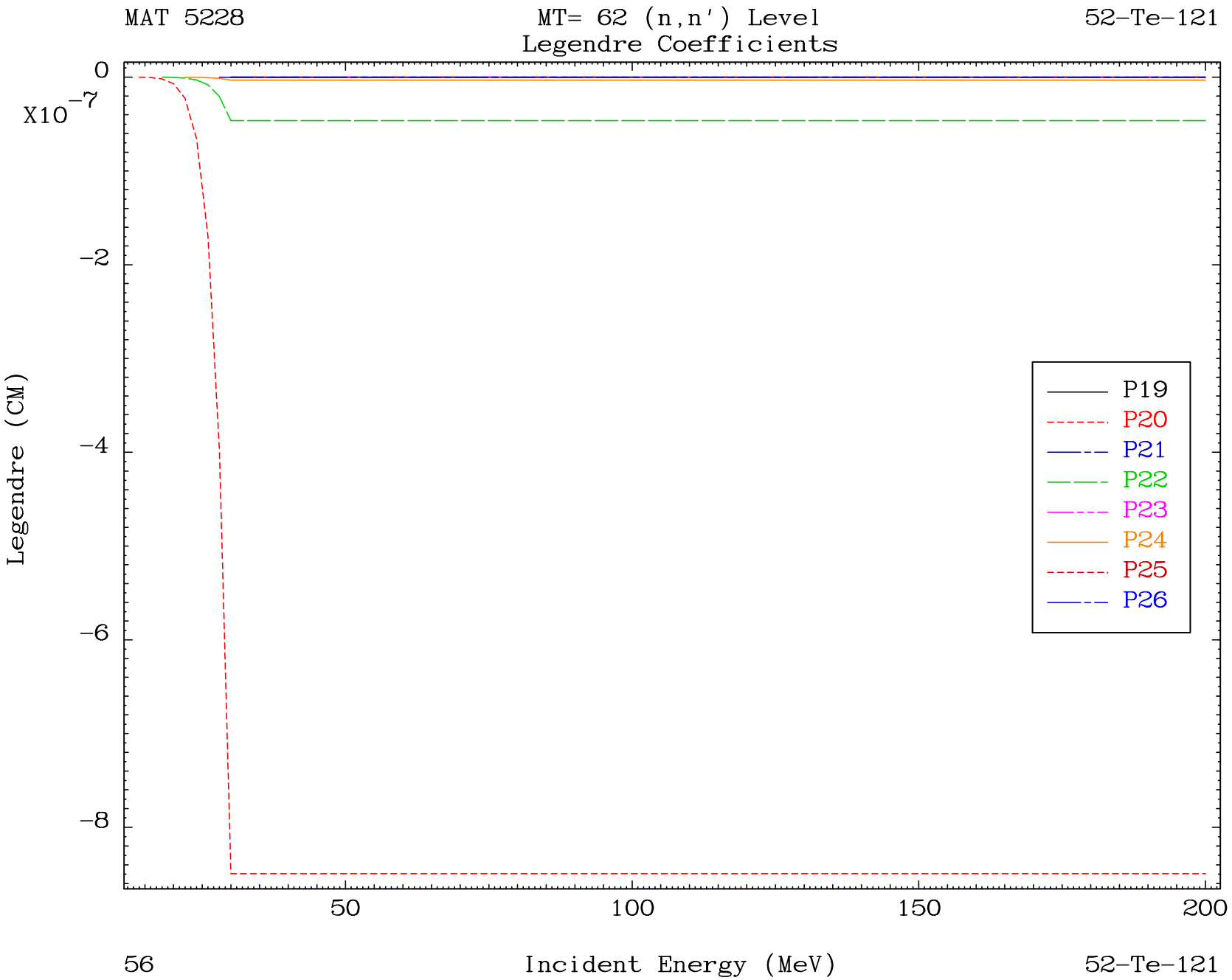

MAT 5228
MT= 61 (n,n') Level
Legendre Coefficients
52-Te-121
0.20
0.15
0.10
0.05
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
51
Incident Energy (MeV)
52-Te-121

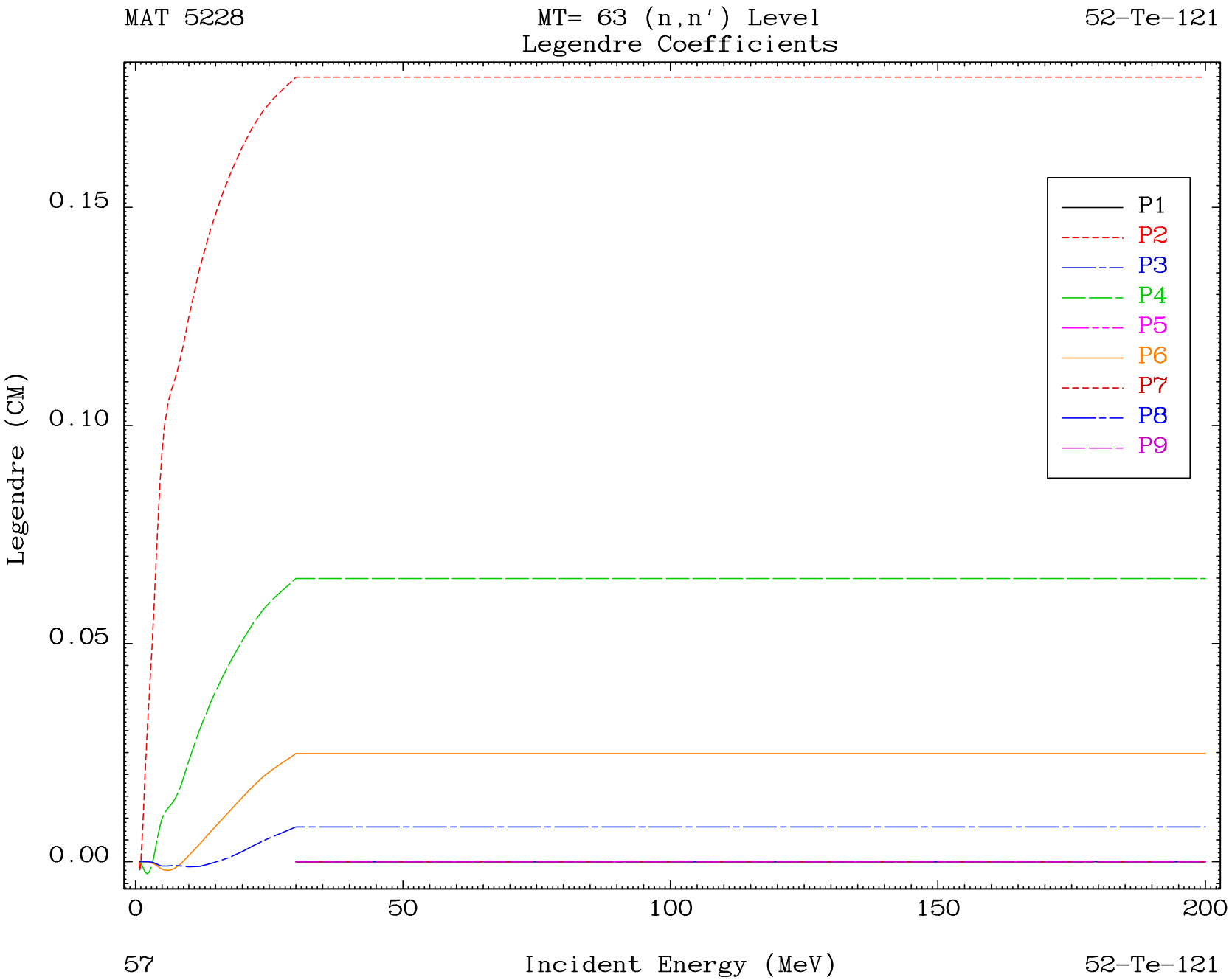

MAT 5228
MT= 61 (n,n') Level
Legendre Coefficients
52-Te-121
0.012
0.010
0.008
0.006
0.004
0.002
0.000
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
52
Incident Energy (MeV)
52-Te-121

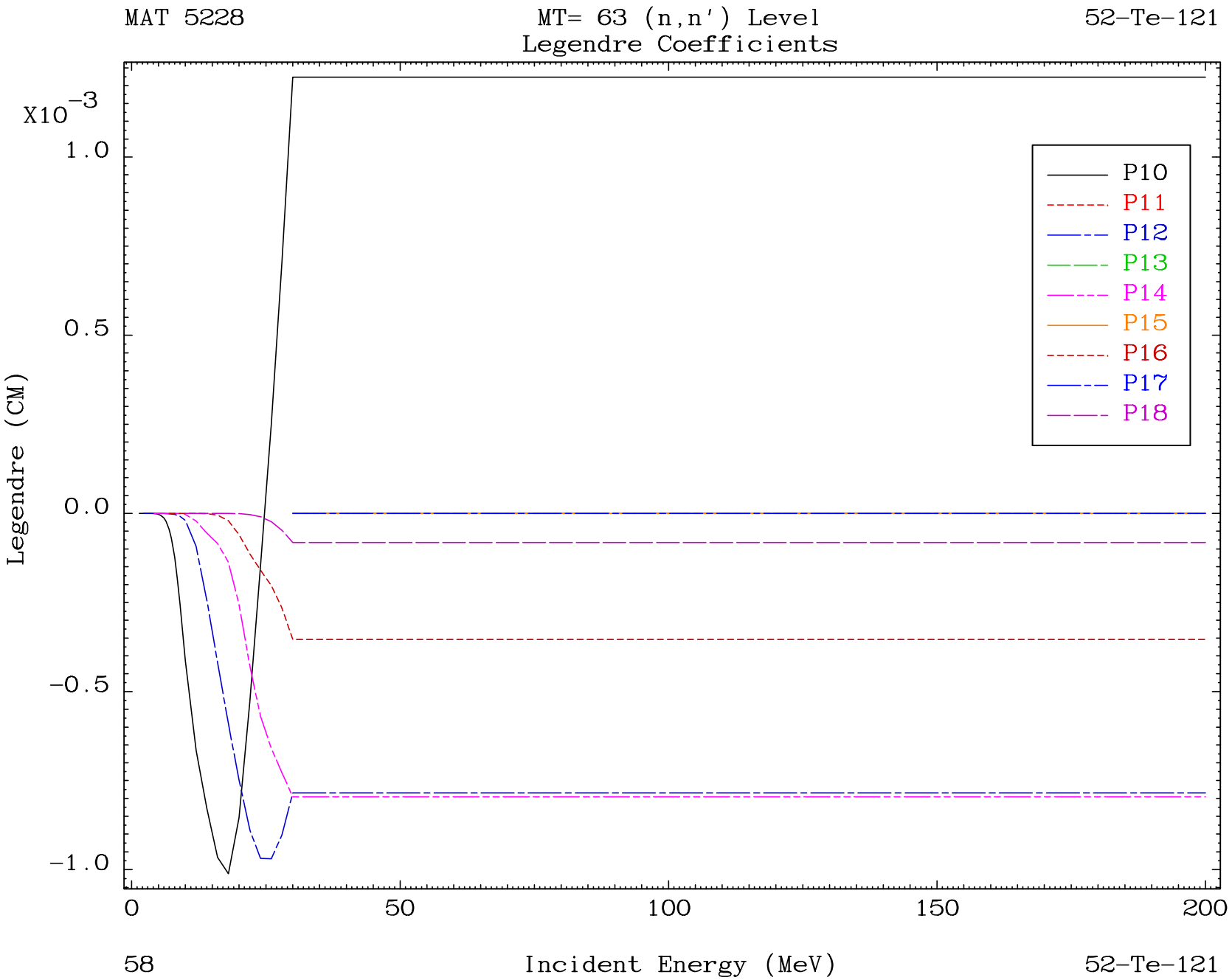

MAT 5228
MT= 61 (n,n') Level
Legendre Coefficients
52-Te-121
X10^-6
5
4
3
2
1
0
Legendre (CM)
50
100
150
200
P19
P20
P21
P22
P23
P24
P25
P26
53
Incident Energy (MeV)
52-Te-121

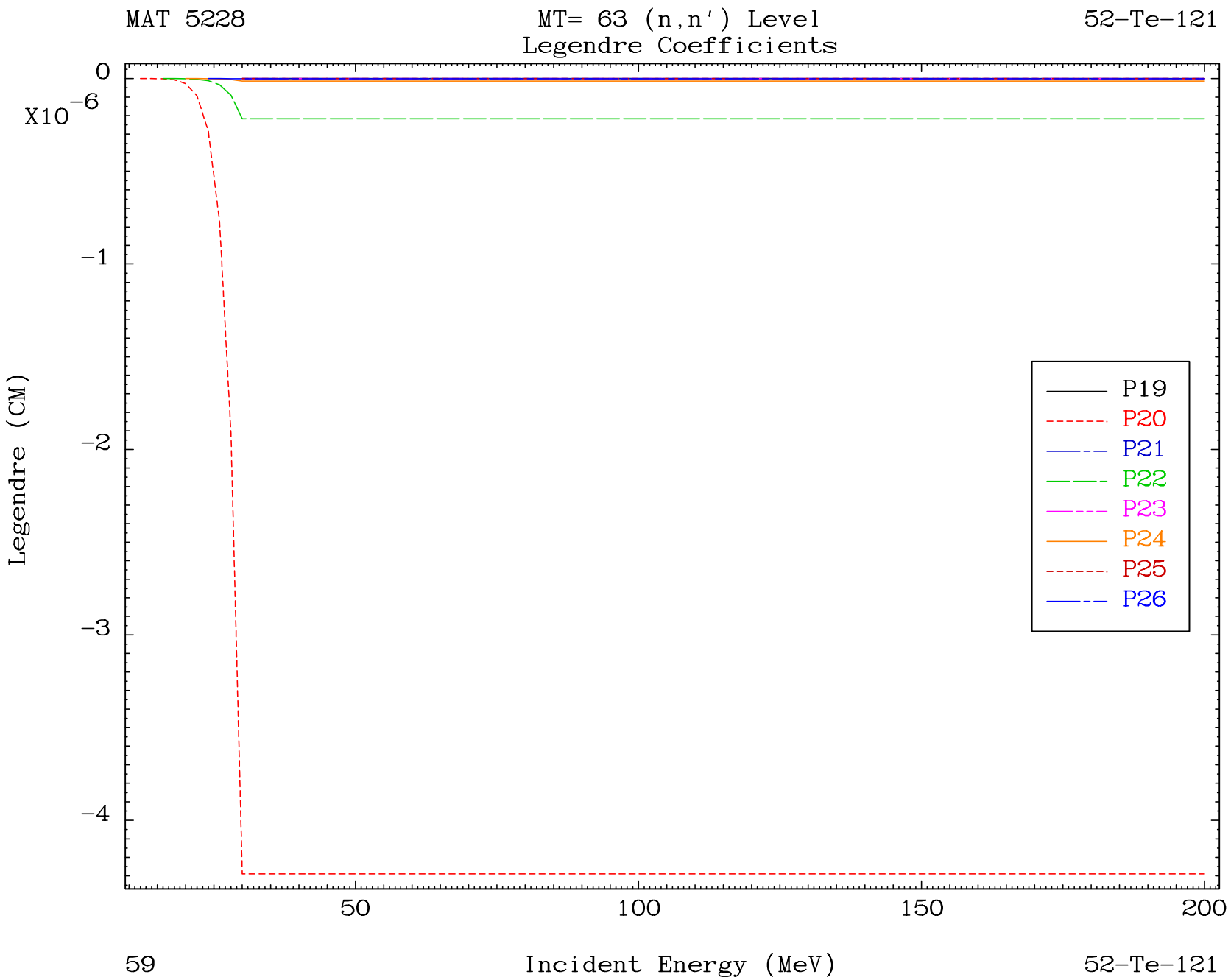

MAT 5228
MT= 62 (n,n') Level
Legendre Coefficients
52-Te-121
0.10
0.08
0.06
0.04
0.02
0.00
-0.02
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
54
Incident Energy (MeV)
52-Te-121

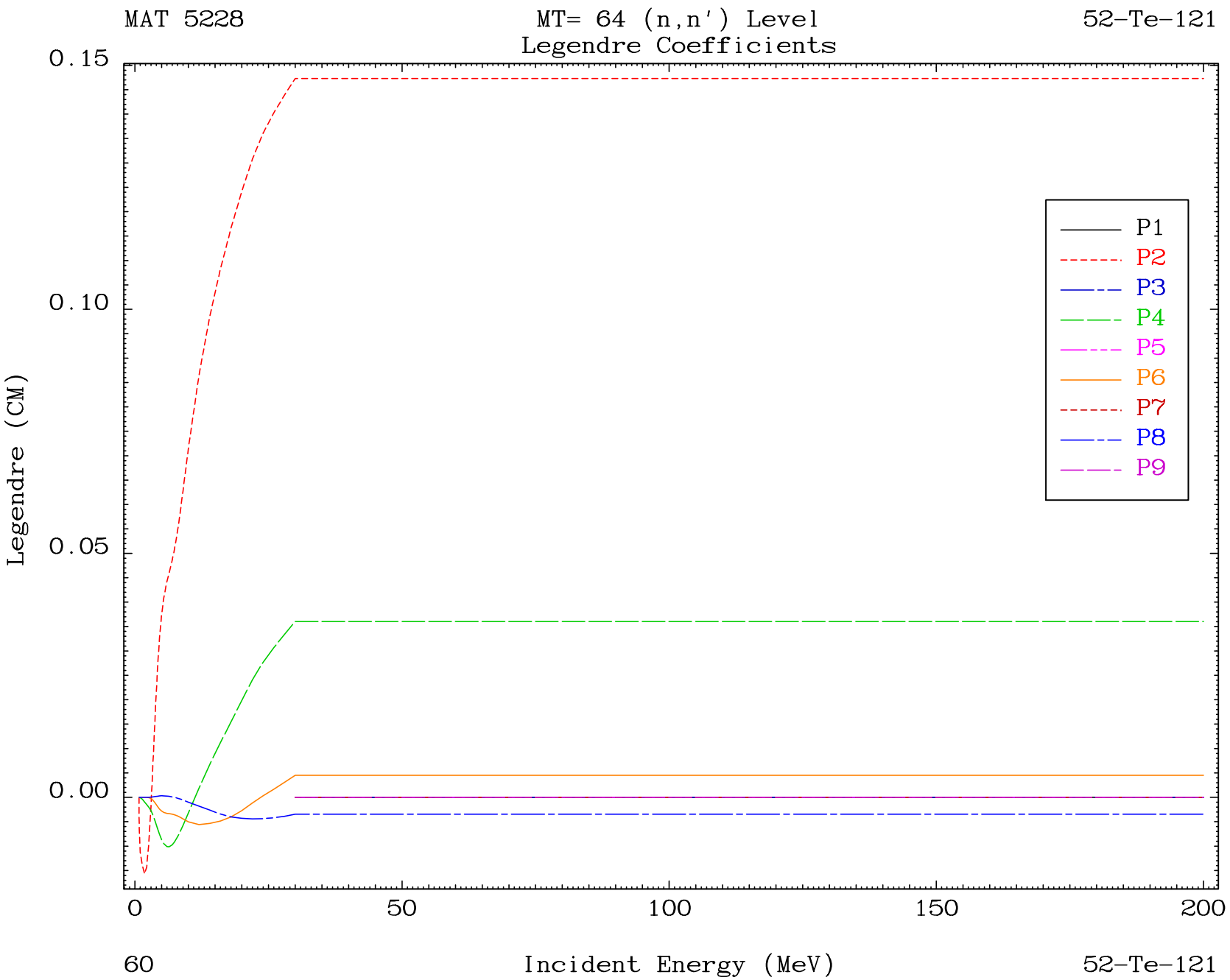

MAT 5228
MT= 62 (n,n') Level
Legendre Coefficients
52-Te-121
X10-3
0.5
0.0
-0.5
-1.0
Legendre (CM)
0
50
100
150
200
55
Incident Energy (MeV)
52-Te-121
P10
P11
P12
P13
P14
P15
P16
P17
P18

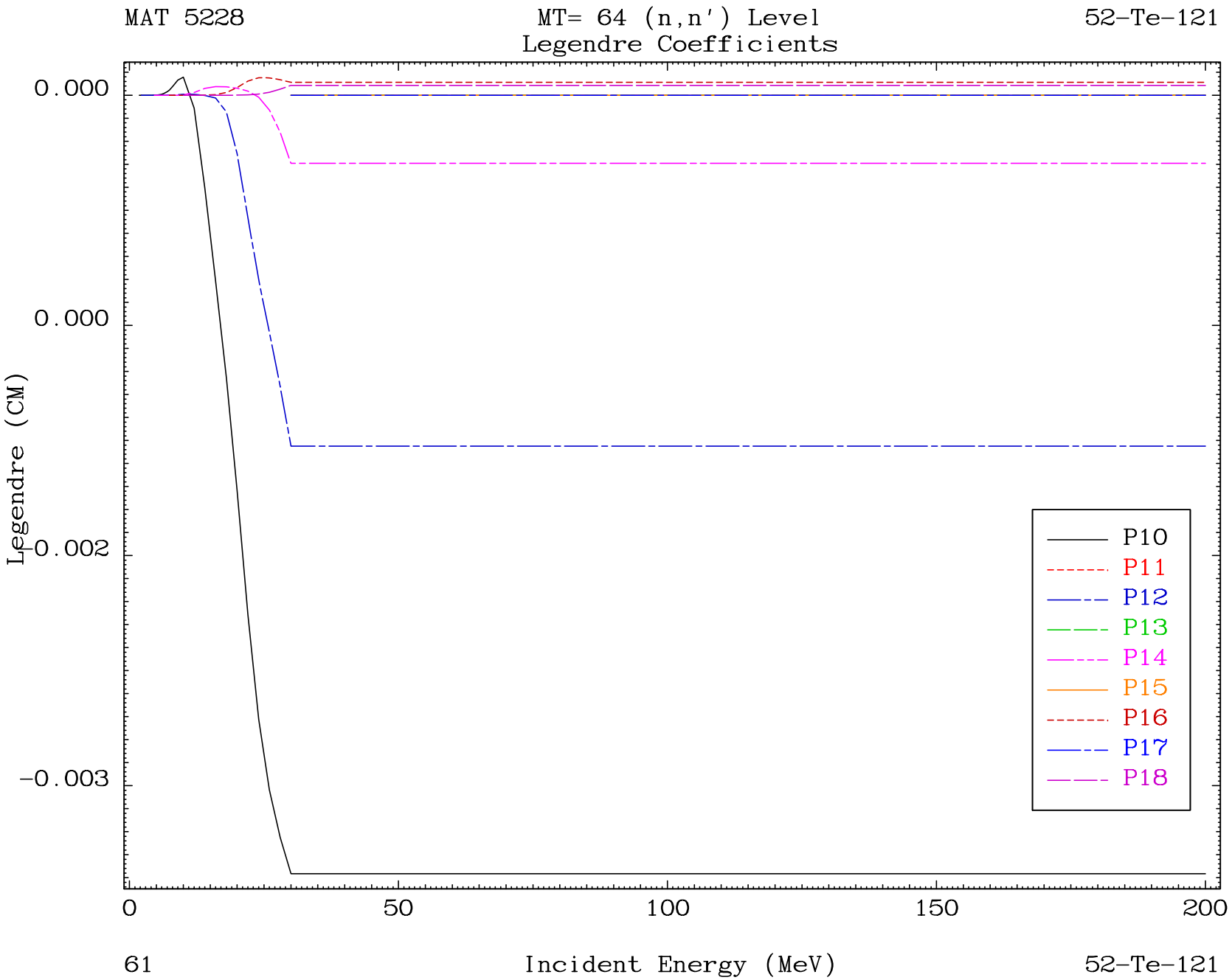

MAT 5228
MT= 62 (n,n') Level
Legendre Coefficients
52-Te-121
0
X10-7
-2
-4
-6
-8
Legendre (CM)
50
100
150
200
56
Incident Energy (MeV)
52-Te-121
P19
P20
P21
P22
P23
P24
P25
P26

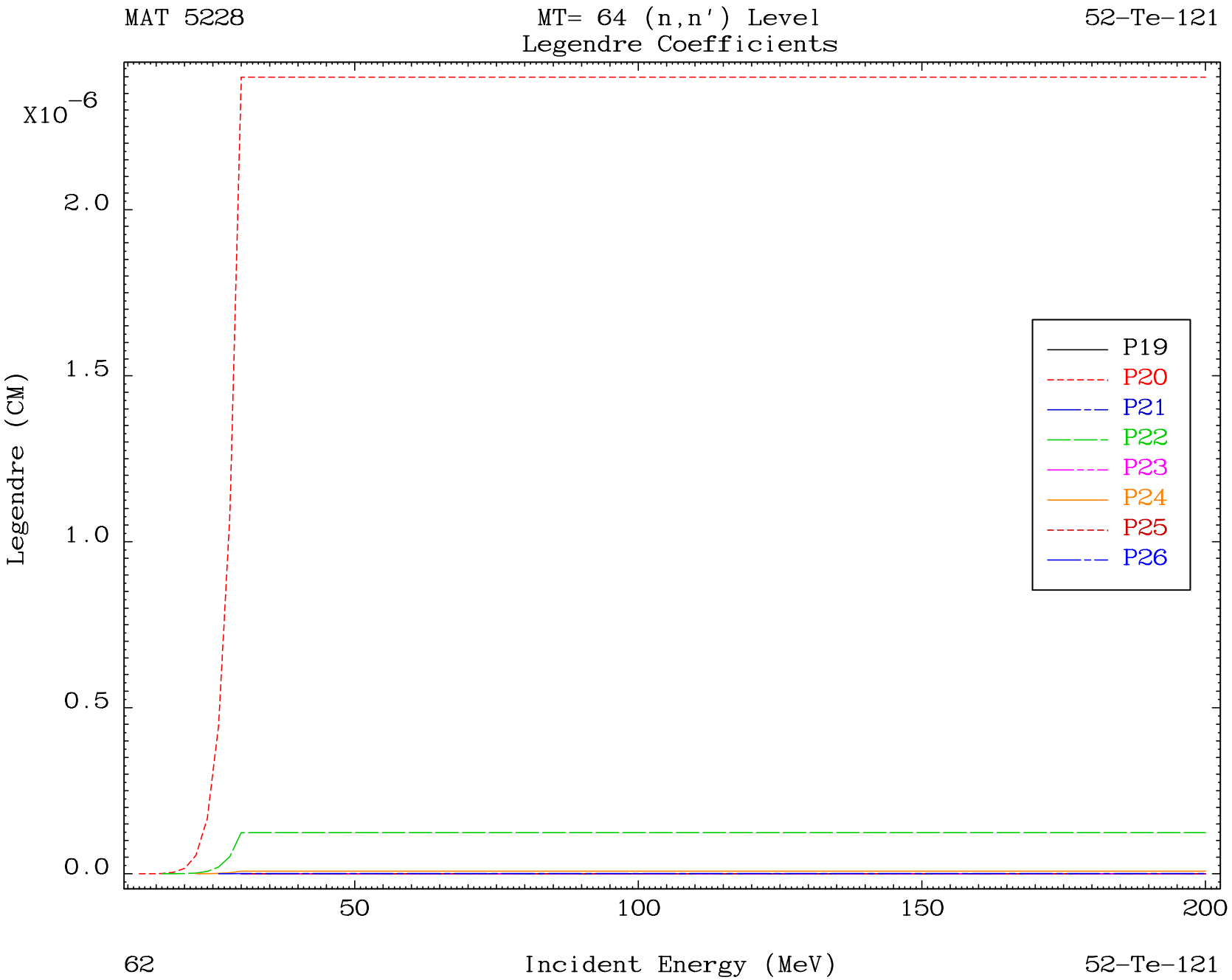

MAT 5228
MT= 63 (n,n') Level
Legendre Coefficients
52-Te-121
Legendre (CM)
0.15
0.10
0.05
0.00
0
50
100
150
200
57
Incident Energy (MeV)
52-Te-121
P1
P2
P3
P4
P5
P6
P7
P8
P9

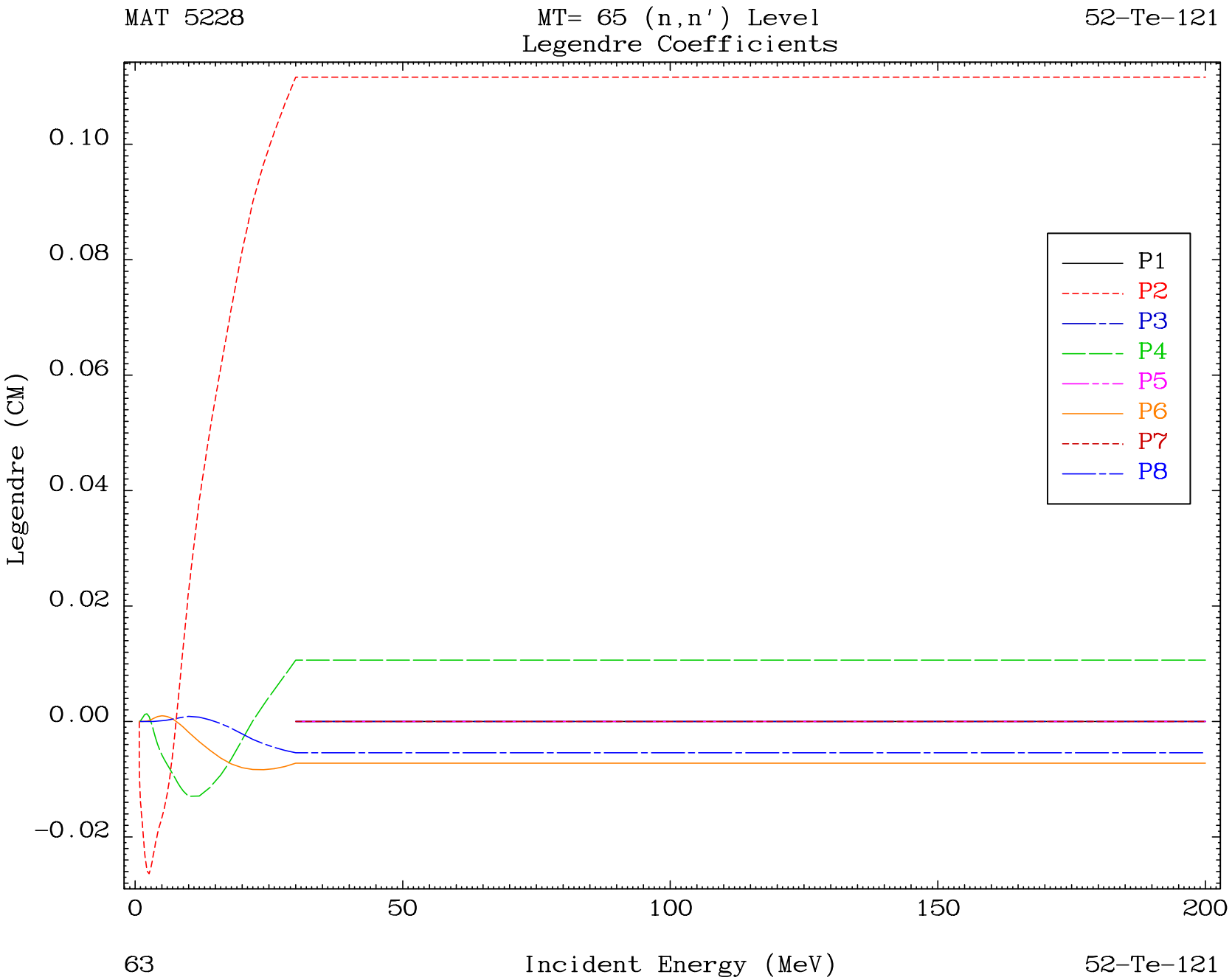

MAT 5228
MT= 63 (n,n') Level
Legendre Coefficients
52-Te-121
X10^-3
1.0
0.5
0.0
-0.5
-1.0
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
58
Incident Energy (MeV)
52-Te-121

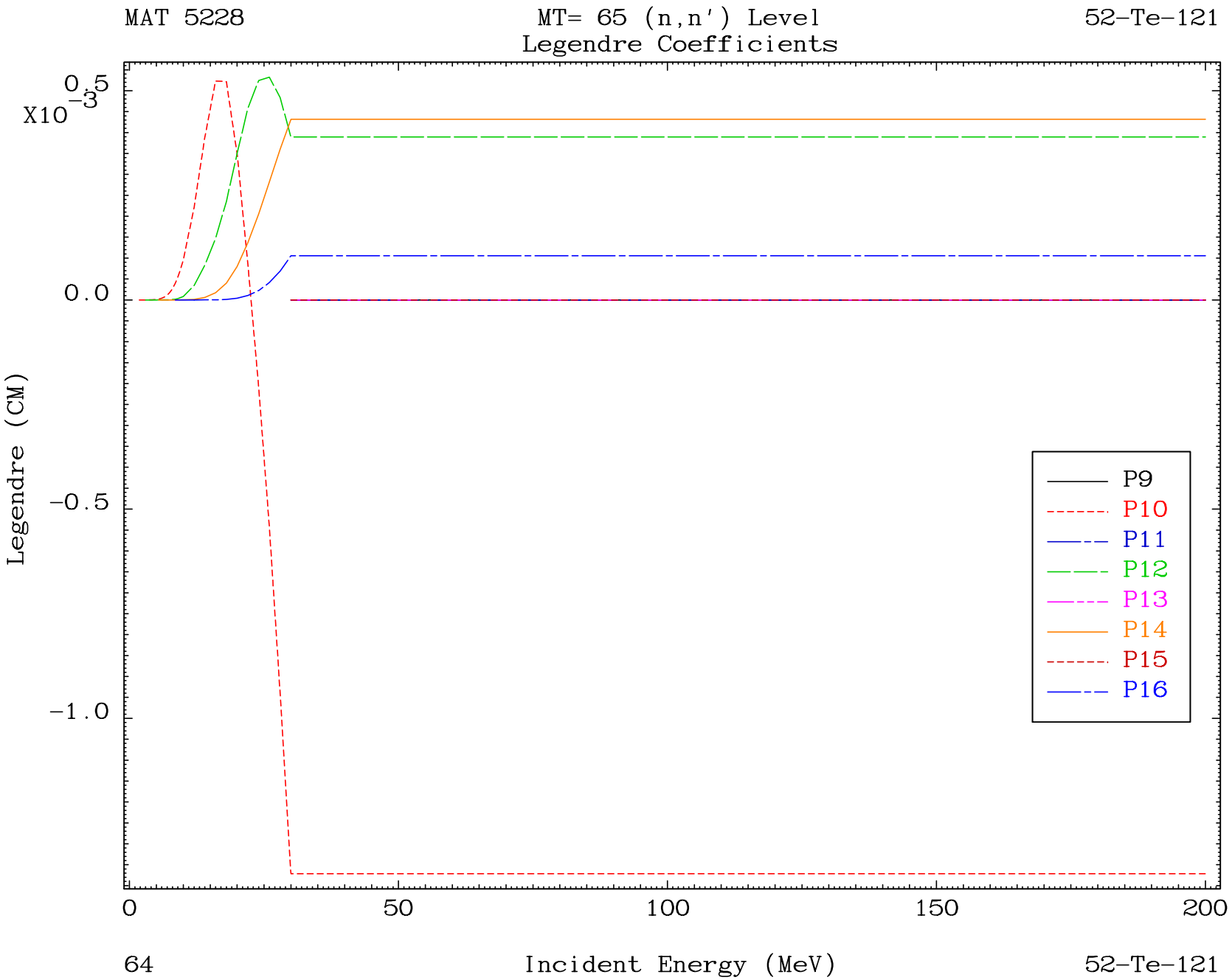

MAT 5228
MT= 63 (n,n') Level
Legendre Coefficients
52-Te-121
0
X10 −6
−1
−2
−3
−4
Legendre (CM)
50
100
150
200
P19
P20
P21
P22
P23
P24
P25
P26
59
Incident Energy (MeV)
52-Te-121

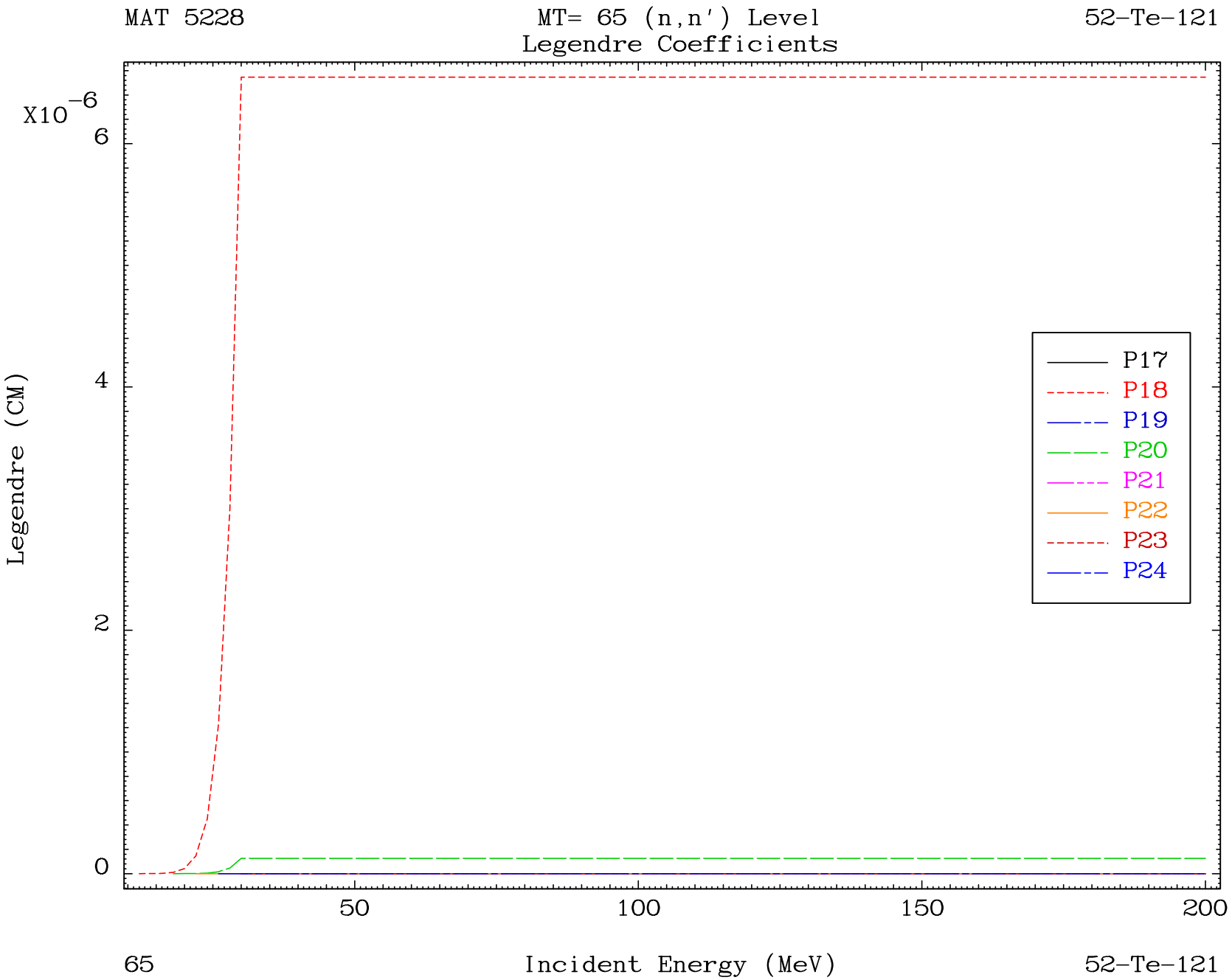

MAT 5228
MT= 64 (n,n') Level
Legendre Coefficients
52-Te-121
0.15
0.10
0.05
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
60
Incident Energy (MeV)
52-Te-121

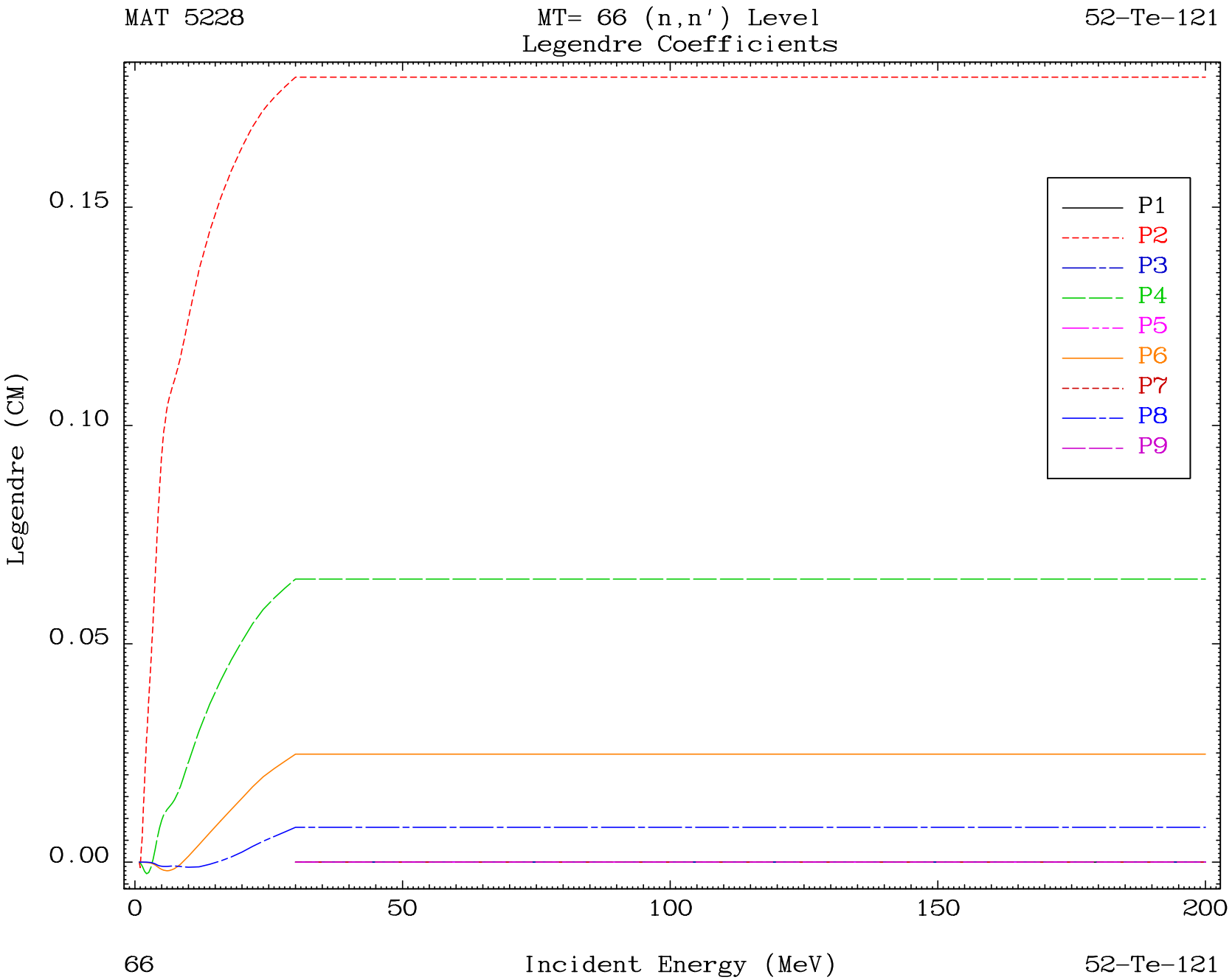

MAT 5228
MT= 64 (n,n') Level
Legendre Coefficients
52-Te-121
0.000
0.000
-0.002
-0.003
Legendre (CM)
0
50
100
150
200
61
Incident Energy (MeV)
52-Te-121
P10
P11
P12
P13
P14
P15
P16
P17
P18

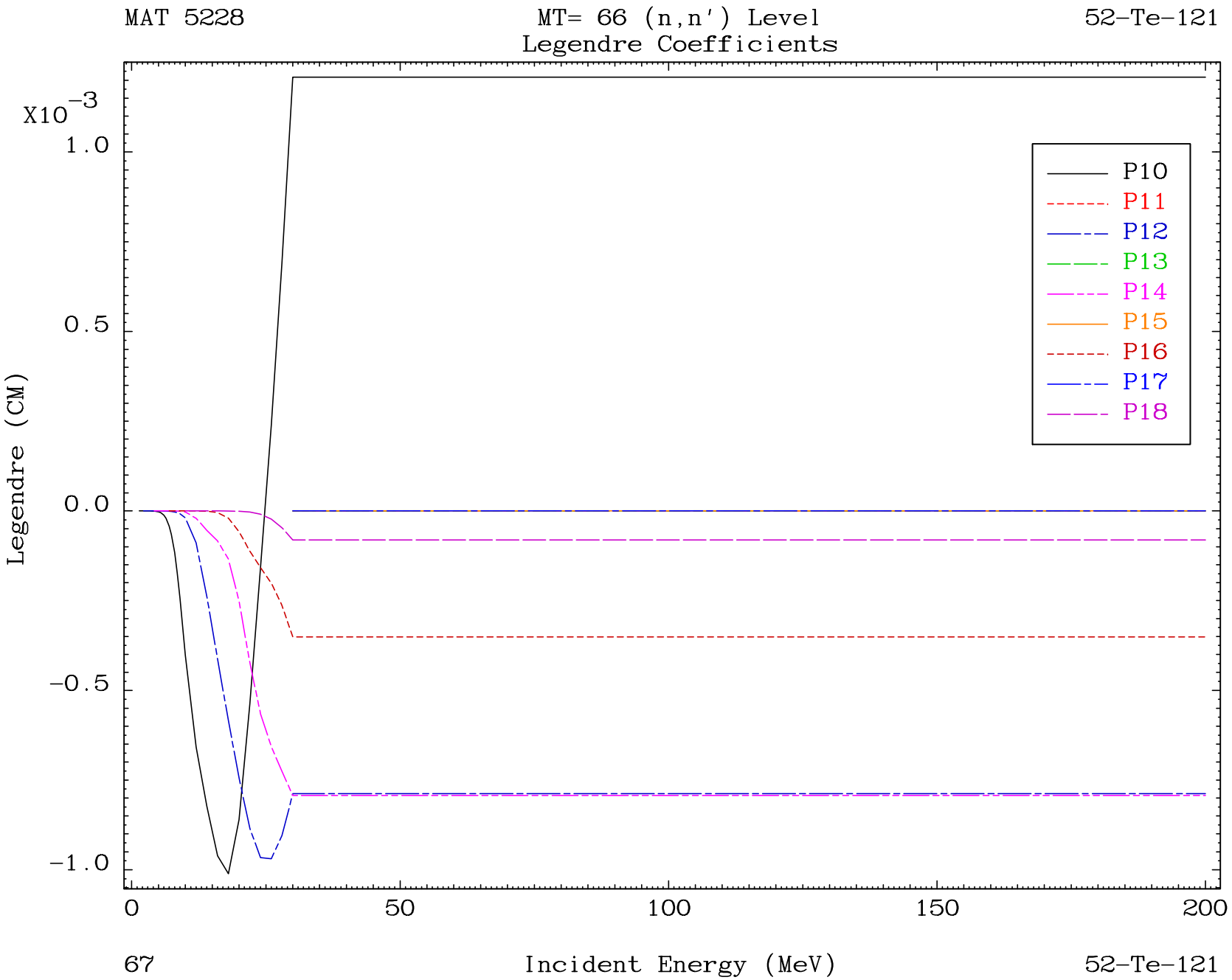

MAT 5228
MT= 64 (n,n') Level
Legendre Coefficients
52-Te-121
X10^-6
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
50
100
150
200
62
Incident Energy (MeV)
52-Te-121

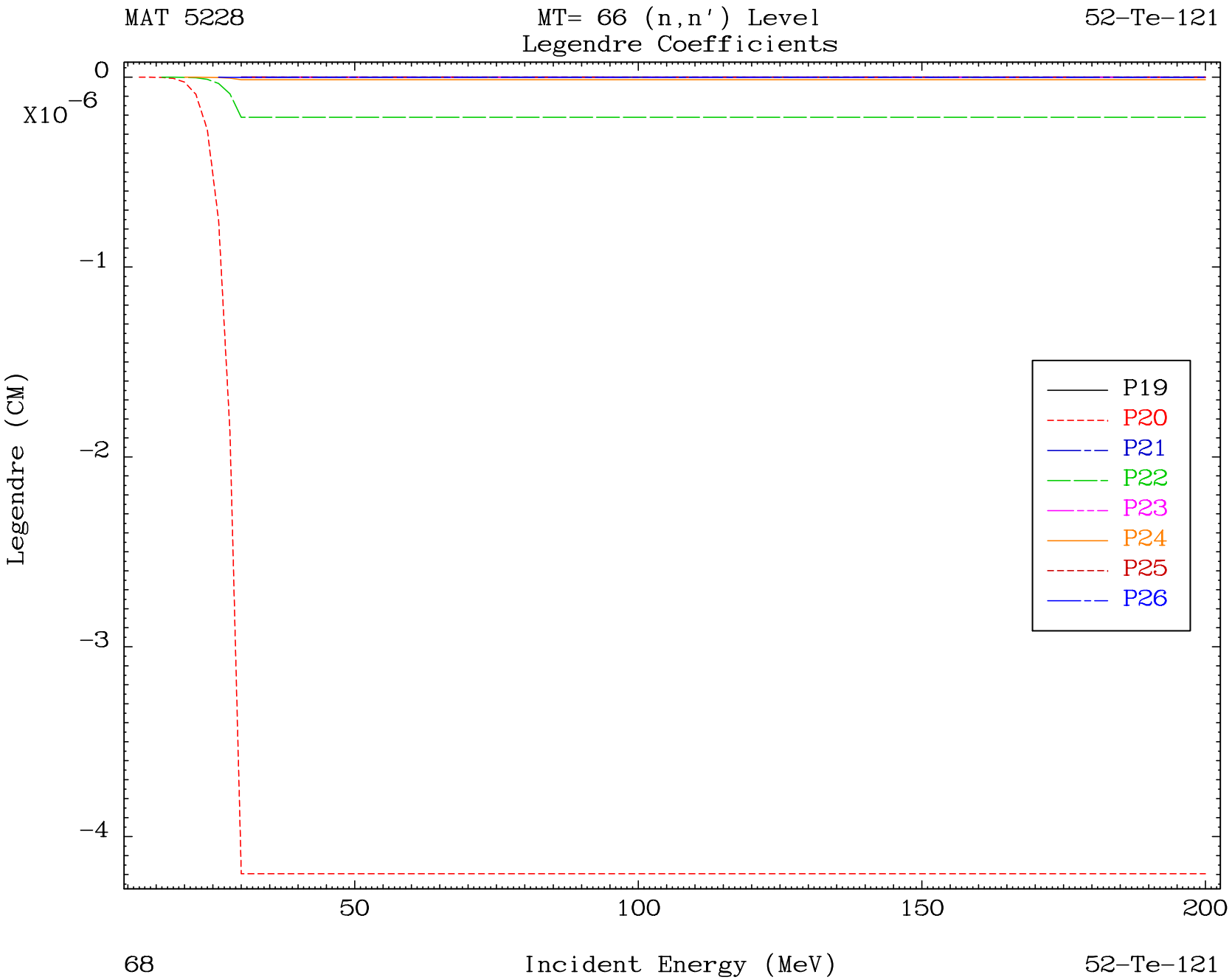

MAT 5228
MT= 65 (n,n') Level
Legendre Coefficients
52-Te-121
0.10
0.08
0.06
0.04
0.02
0.00
-0.02
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
0
50
100
150
200
63
Incident Energy (MeV)
52-Te-121

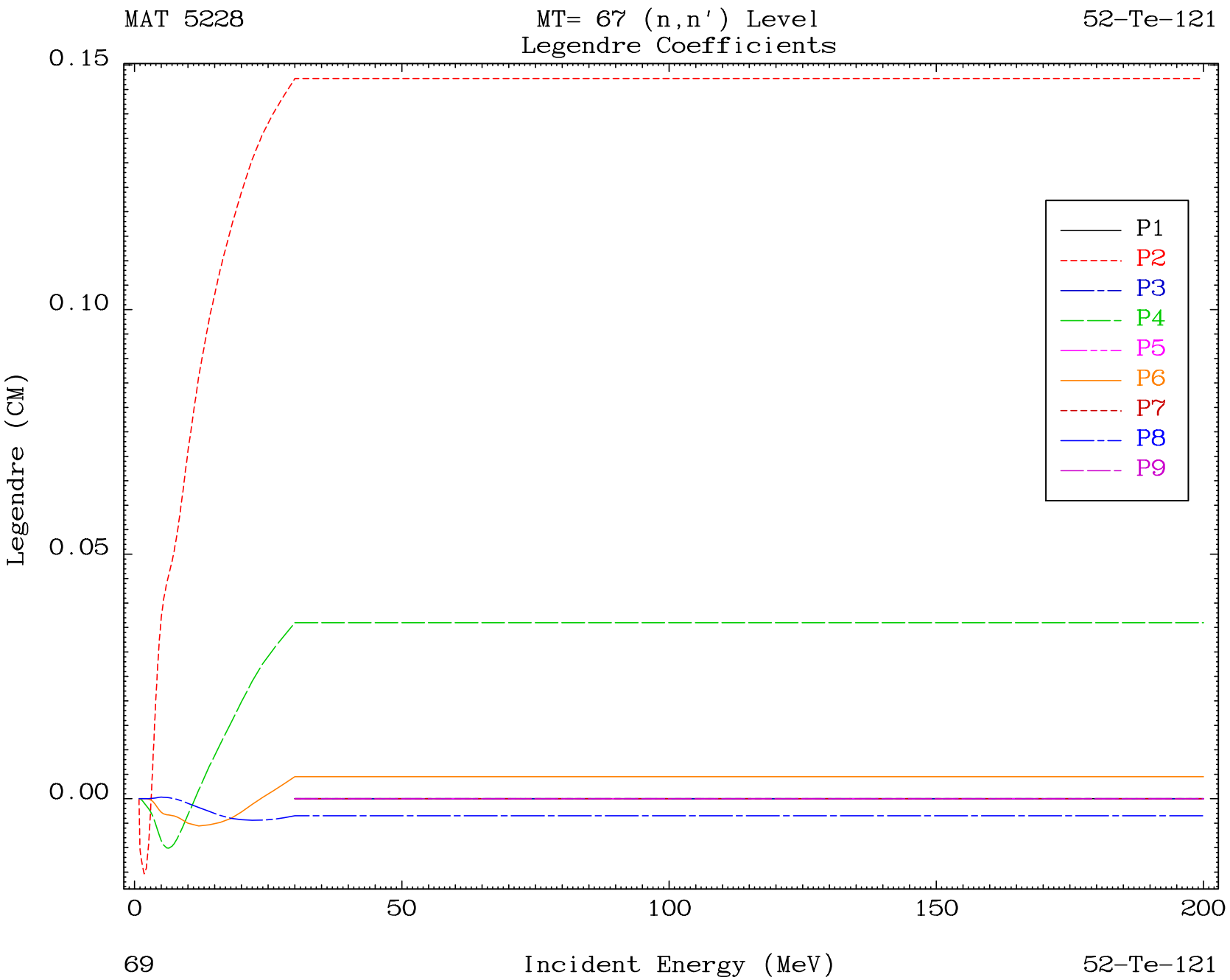

MAT 5228
MT= 65 (n,n') Level
Legendre Coefficients
52-Te-121
X10-3
0.5
0.0
-0.5
-1.0
Legendre (CM)
0
50
100
150
200
64
Incident Energy (MeV)
52-Te-121
P9
P10
P11
P12
P13
P14
P15
P16

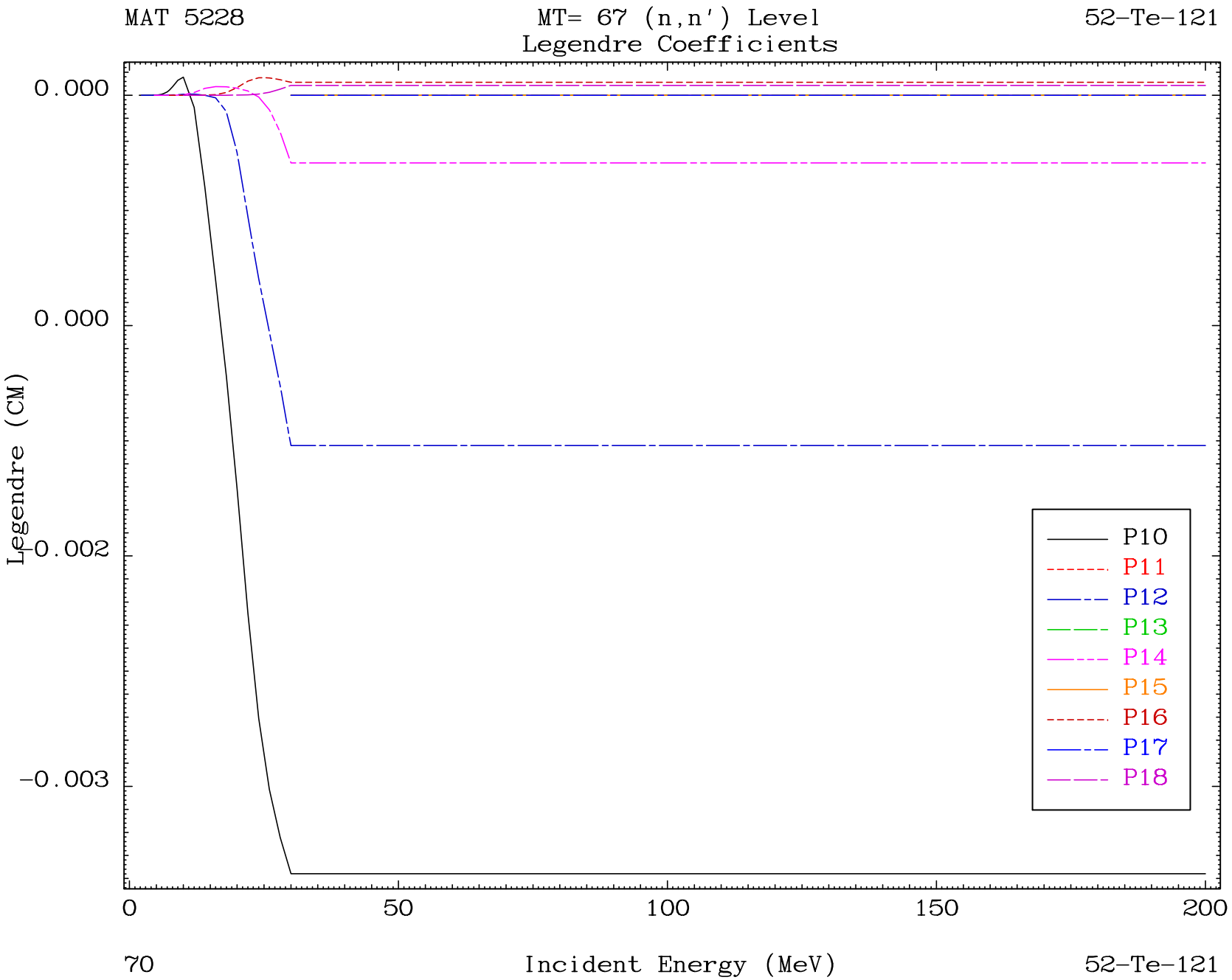

MAT 5228
MT= 65 (n,n') Level
Legendre Coefficients
52-Te-121
X10 −6
6
4
2
0
Legendre (CM)
50
100
150
200
65
Incident Energy (MeV)
52-Te-121
P17
P18
P19
P20
P21
P22
P23
P24

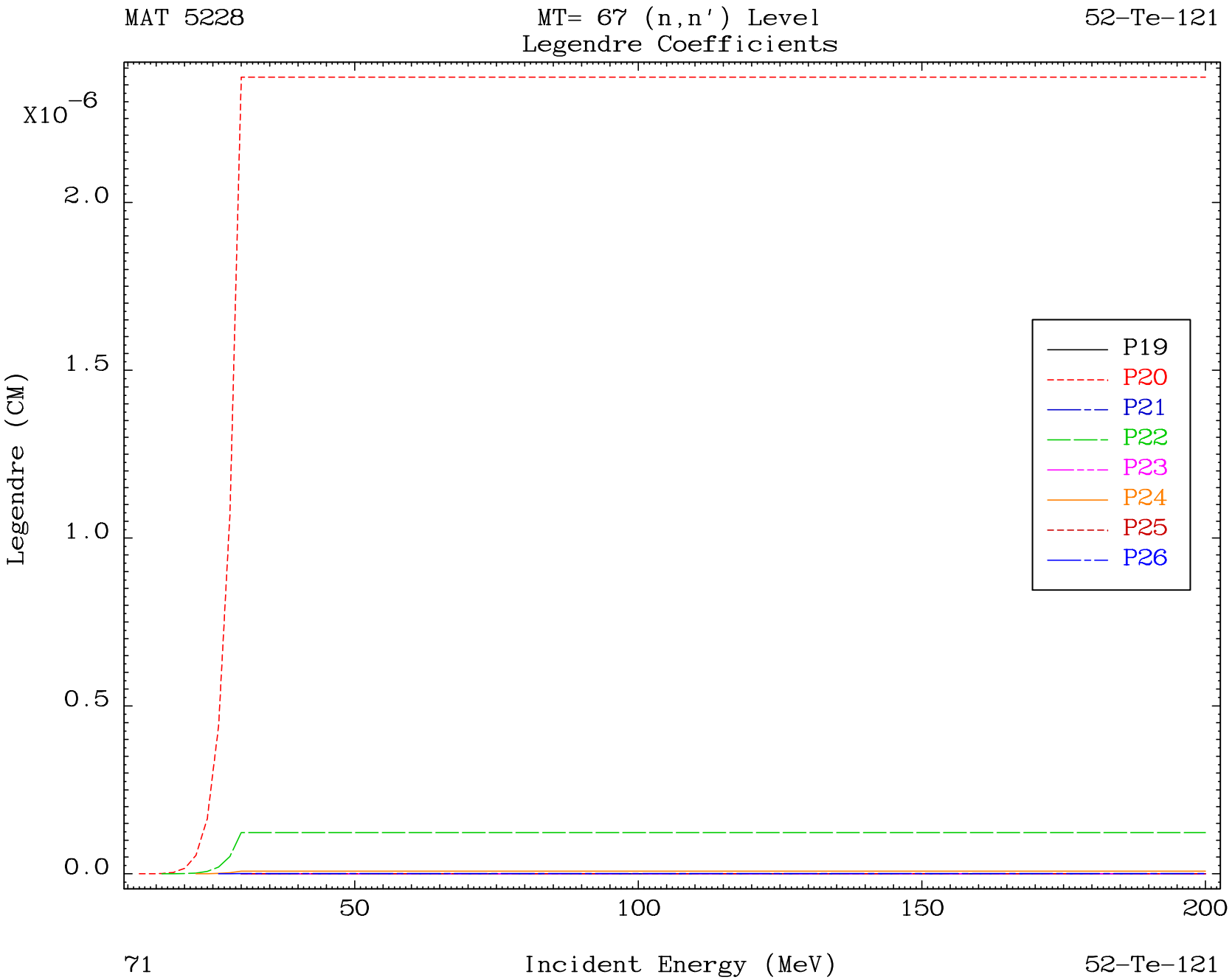

MAT 5228
MT= 66 (n,n') Level
Legendre Coefficients
52-Te-121
Legendre (CM)
0.15
0.10
0.05
0.00
0
50
100
150
200
66
Incident Energy (MeV)
52-Te-121
P1
P2
P3
P4
P5
P6
P7
P8
P9

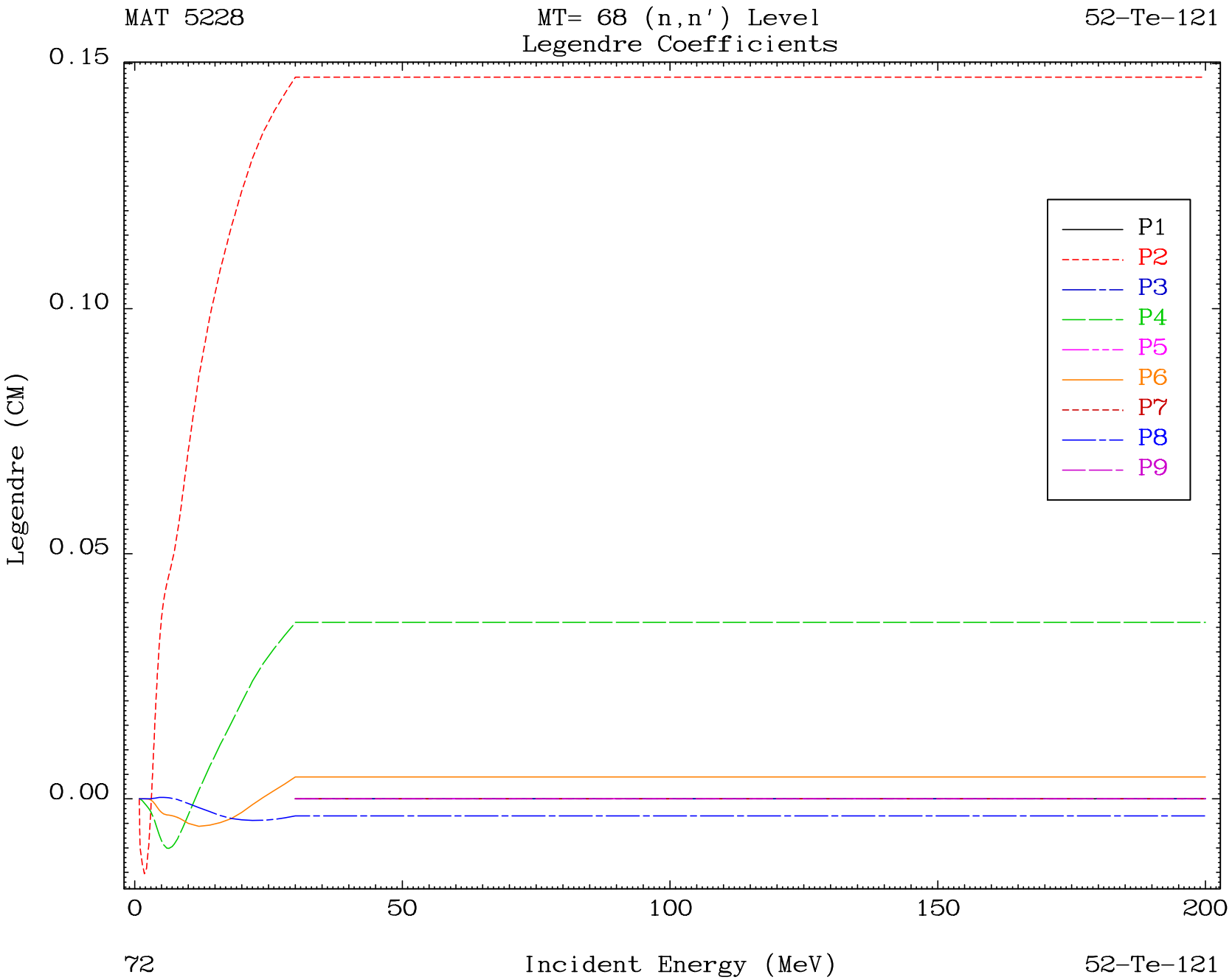

MAT 5228
MT= 66 (n,n') Level
Legendre Coefficients
52-Te-121
X10^-3
1.0
0.5
0.0
-0.5
-1.0
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
67
Incident Energy (MeV)
52-Te-121

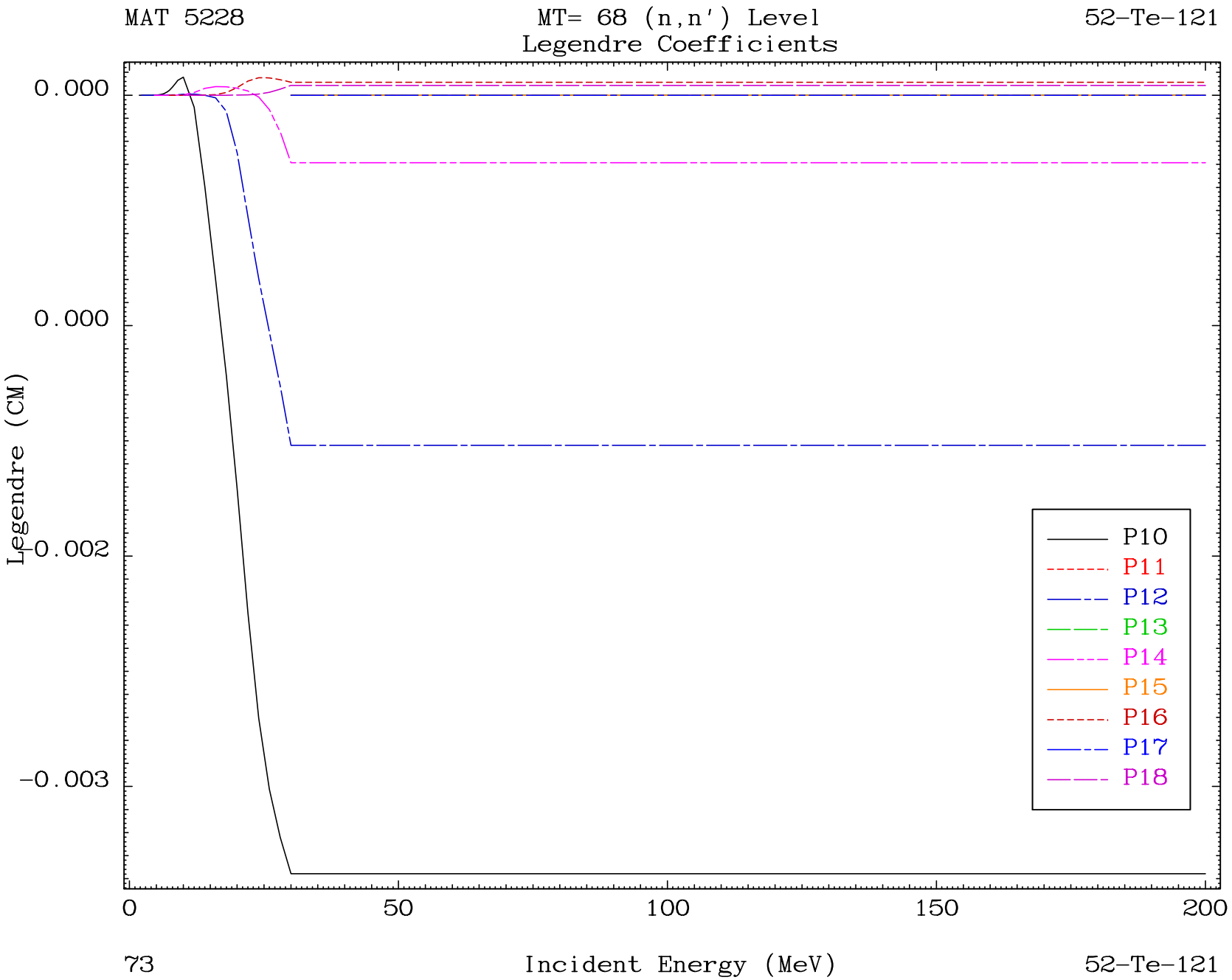

MAT 5228
MT= 66 (n,n') Level
Legendre Coefficients
52-Te-121
0
X10−6
−1
−2
−3
−4
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
50
100
150
200
68
Incident Energy (MeV)
52-Te-121

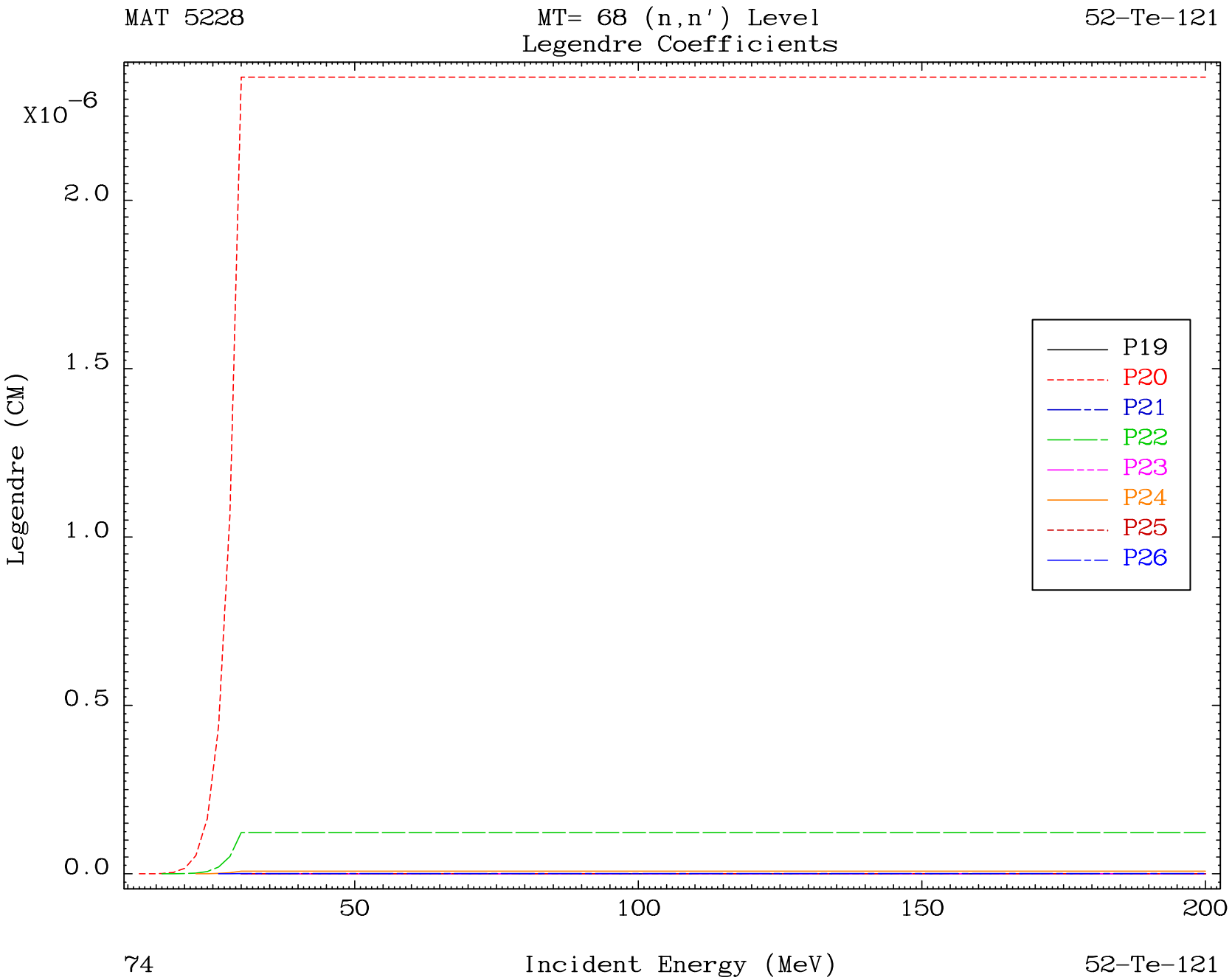

MAT 5228
MT= 67 (n,n') Level
Legendre Coefficients
52-Te-121
0.15
0.10
0.05
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
69
Incident Energy (MeV)
52-Te-121

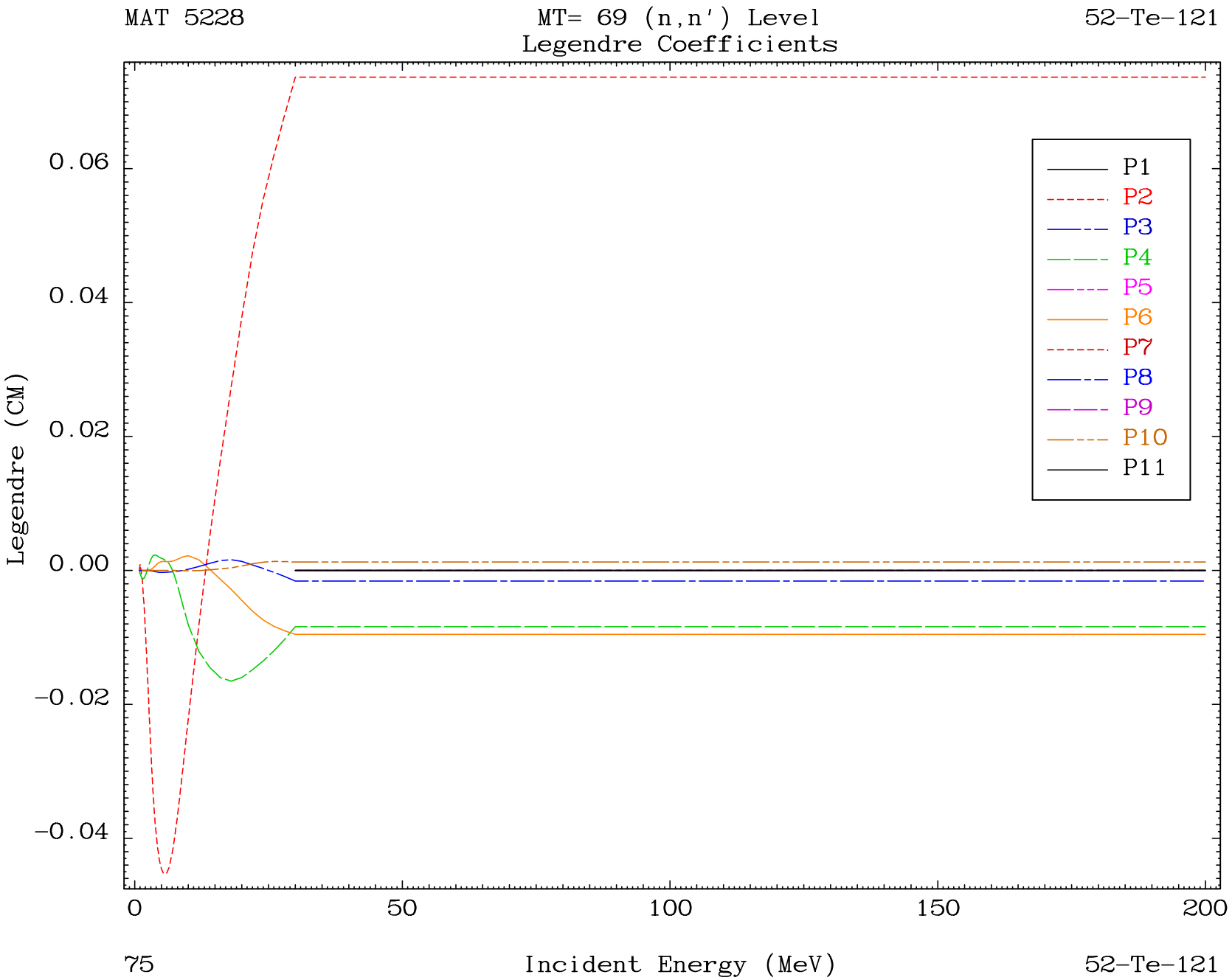

MAT 5228
MT= 67 (n,n') Level
Legendre Coefficients
52-Te-121
0.000
0.000
-0.002
-0.003
Legendre (CM)
0
50
100
150
200
70
Incident Energy (MeV)
52-Te-121
P10
P11
P12
P13
P14
P15
P16
P17
P18

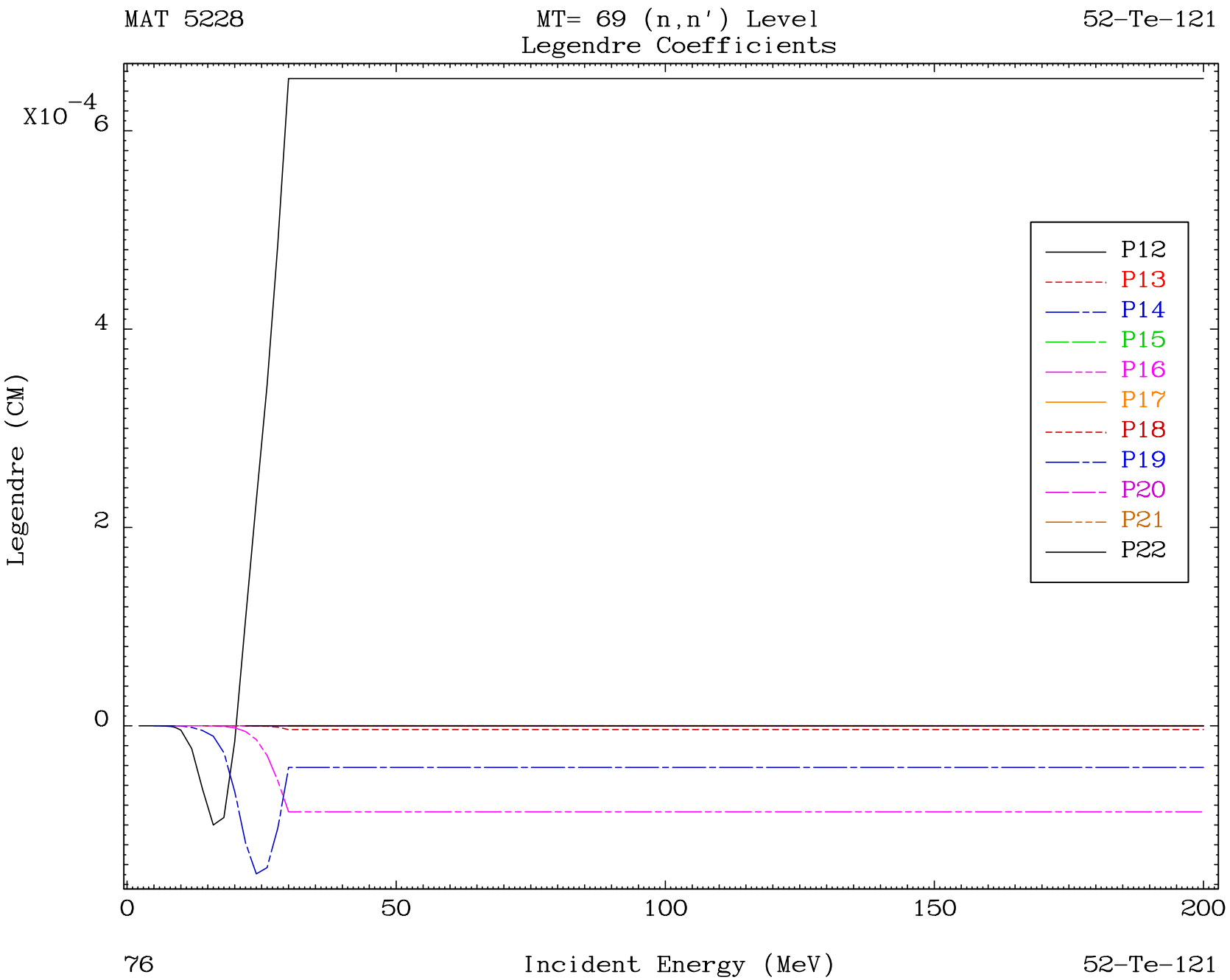

MAT 5228
MT= 67 (n,n') Level
Legendre Coefficients
52-Te-121
X10^-6
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
50
100
150
200
71
Incident Energy (MeV)
52-Te-121

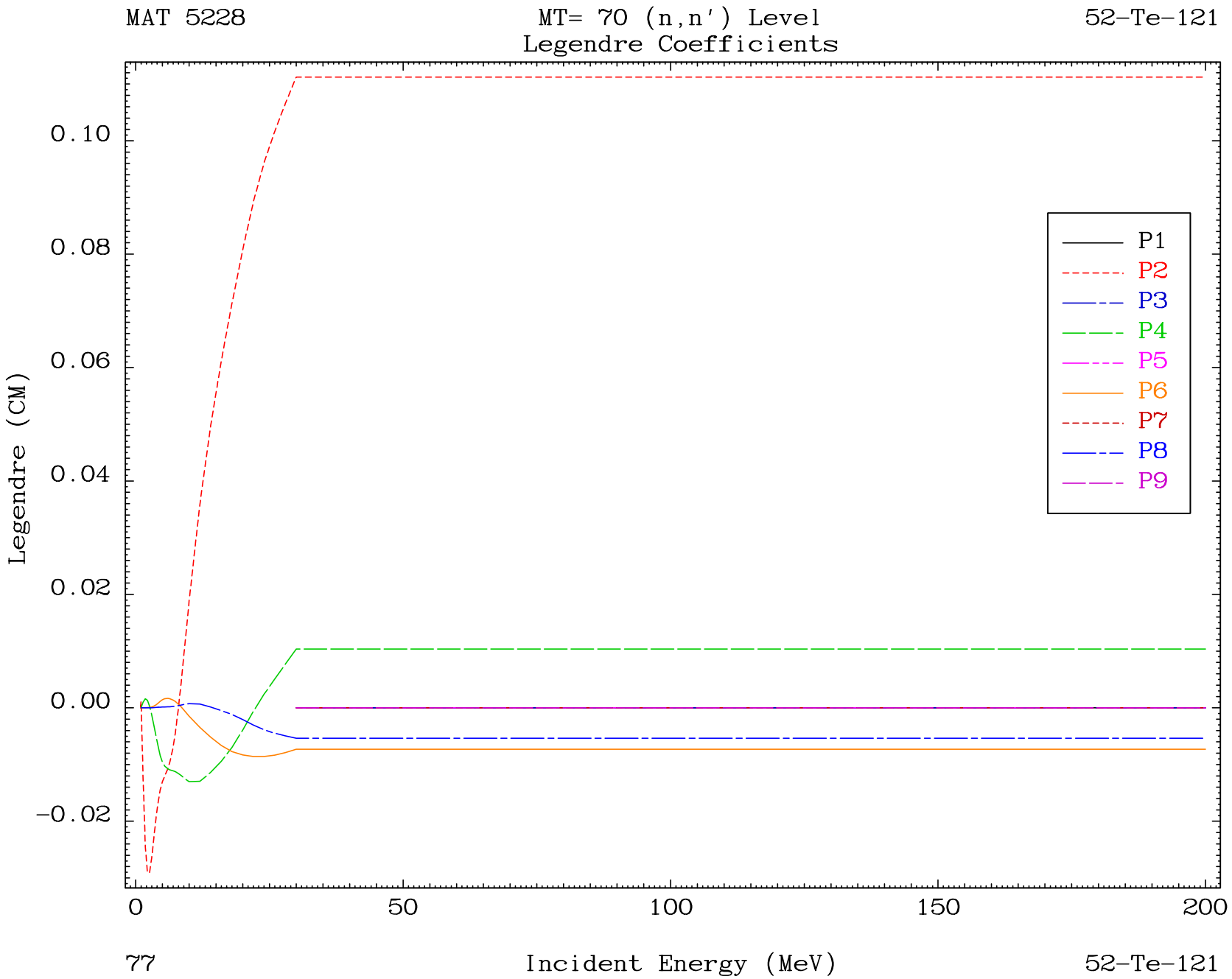

MAT 5228
MT= 68 (n,n') Level
Legendre Coefficients
52-Te-121
0.15
0.10
0.05
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
72
Incident Energy (MeV)
52-Te-121

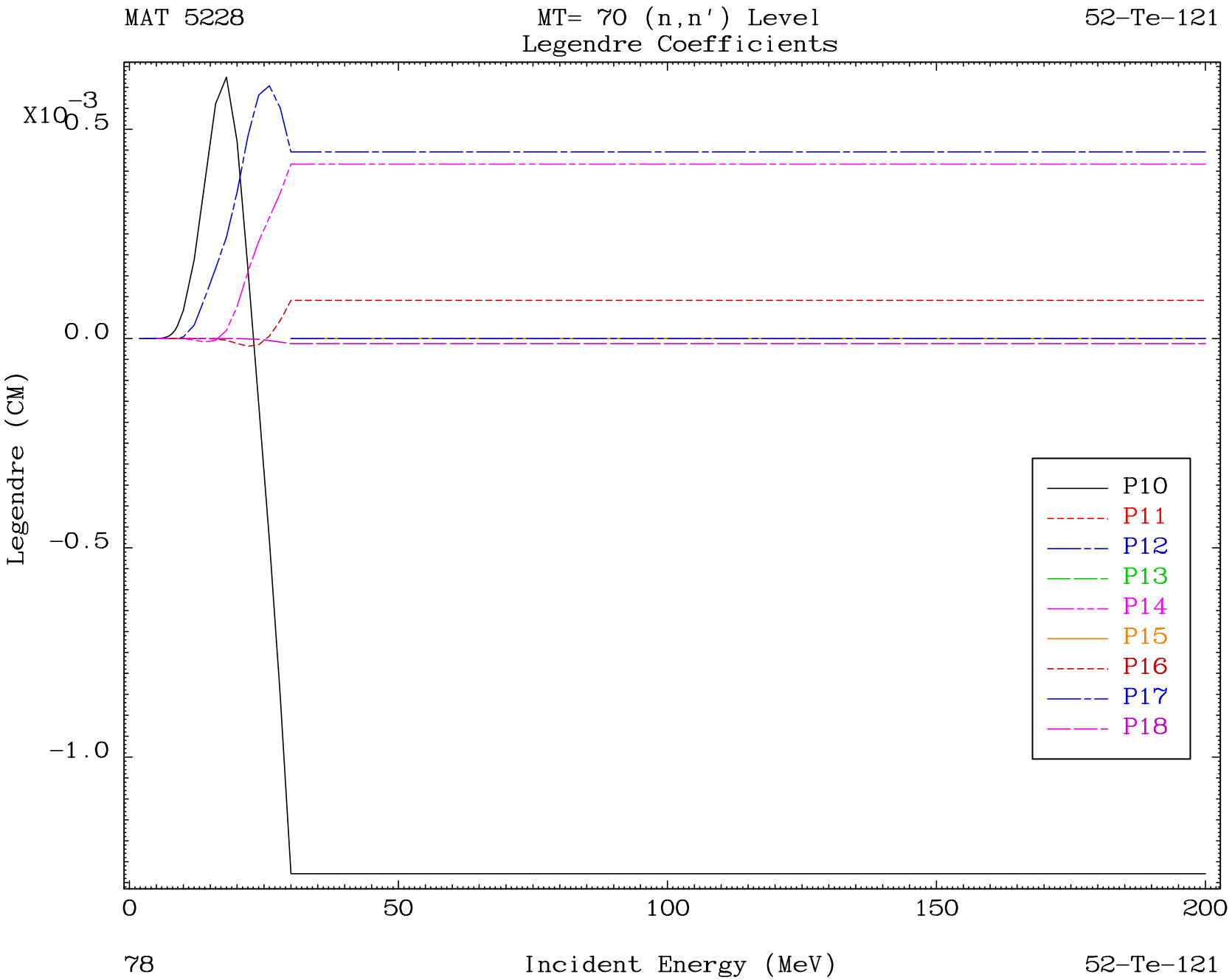

MAT 5228
MT= 68 (n,n') Level
Legendre Coefficients
52-Te-121
0.000
0.000
-0.002
-0.003
Legendre (CM)
0
50
100
150
200
73
Incident Energy (MeV)
52-Te-121
P10
P11
P12
P13
P14
P15
P16
P17
P18

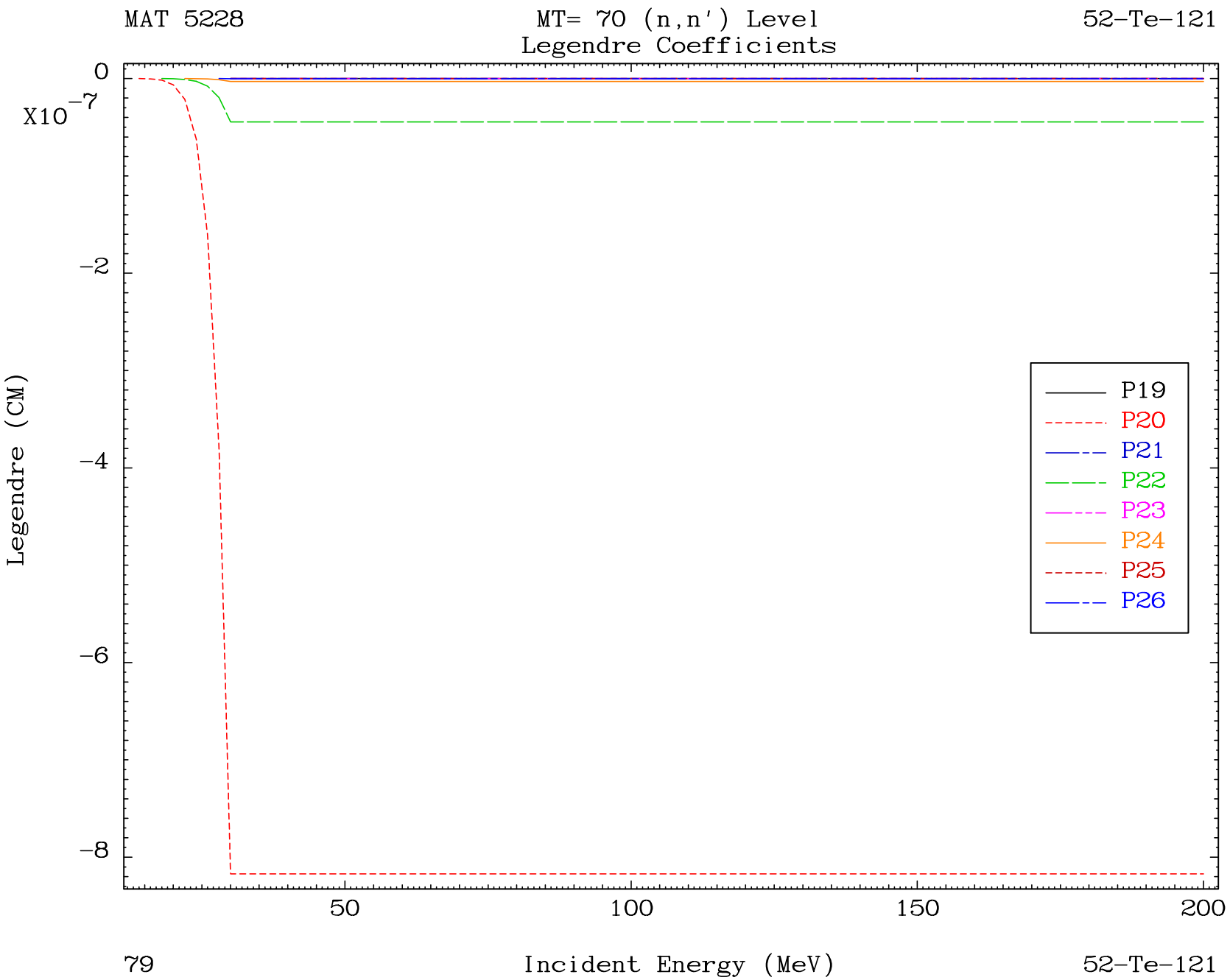

MAT 5228
MT= 68 (n,n') Level
Legendre Coefficients
52-Te-121
X10^-6
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
50
100
150
200
74
Incident Energy (MeV)
52-Te-121

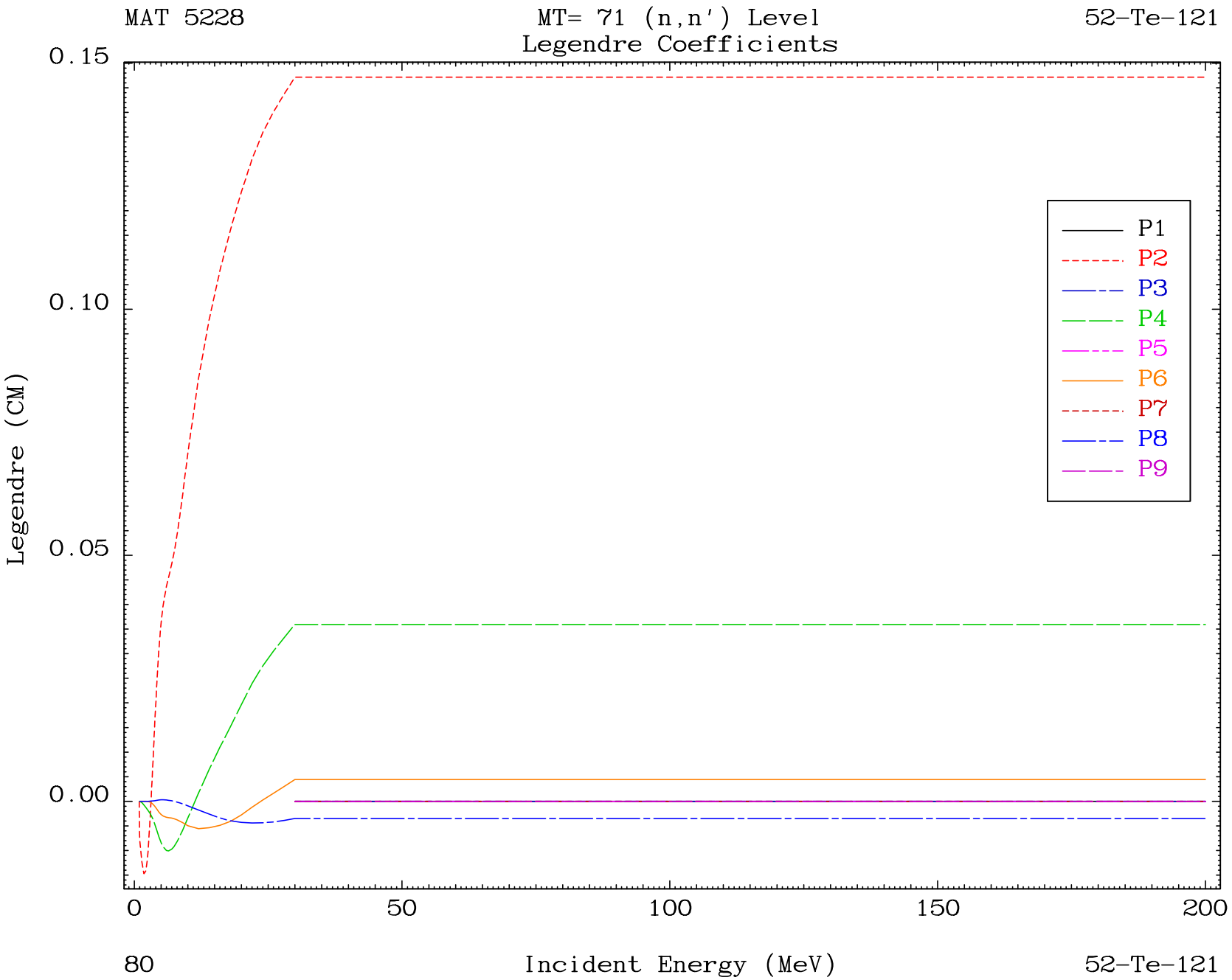

MAT 5228
MT= 69 (n,n') Level
Legendre Coefficients
52-Te-121
0.06
0.04
0.02
0.00
-0.02
-0.04
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11
0
50
100
150
200
75
Incident Energy (MeV)
52-Te-121

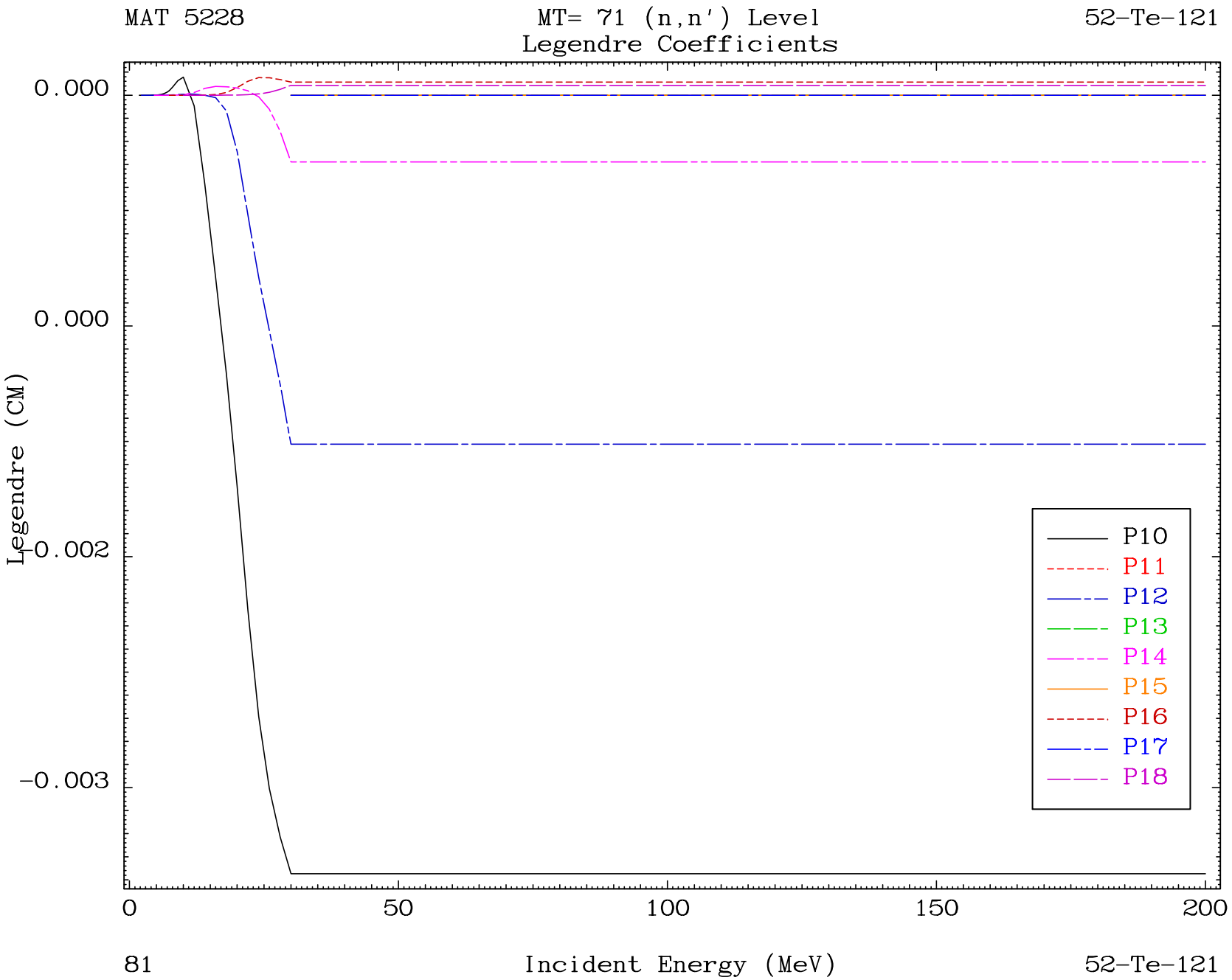

MAT 5228
MT= 69 (n,n') Level
Legendre Coefficients
52-Te-121
X10 -4
6
4
2
0
Legendre (CM)
P12
P13
P14
P15
P16
P17
P18
P19
P20
P21
P22
0
50
100
150
200
76
Incident Energy (MeV)
52-Te-121

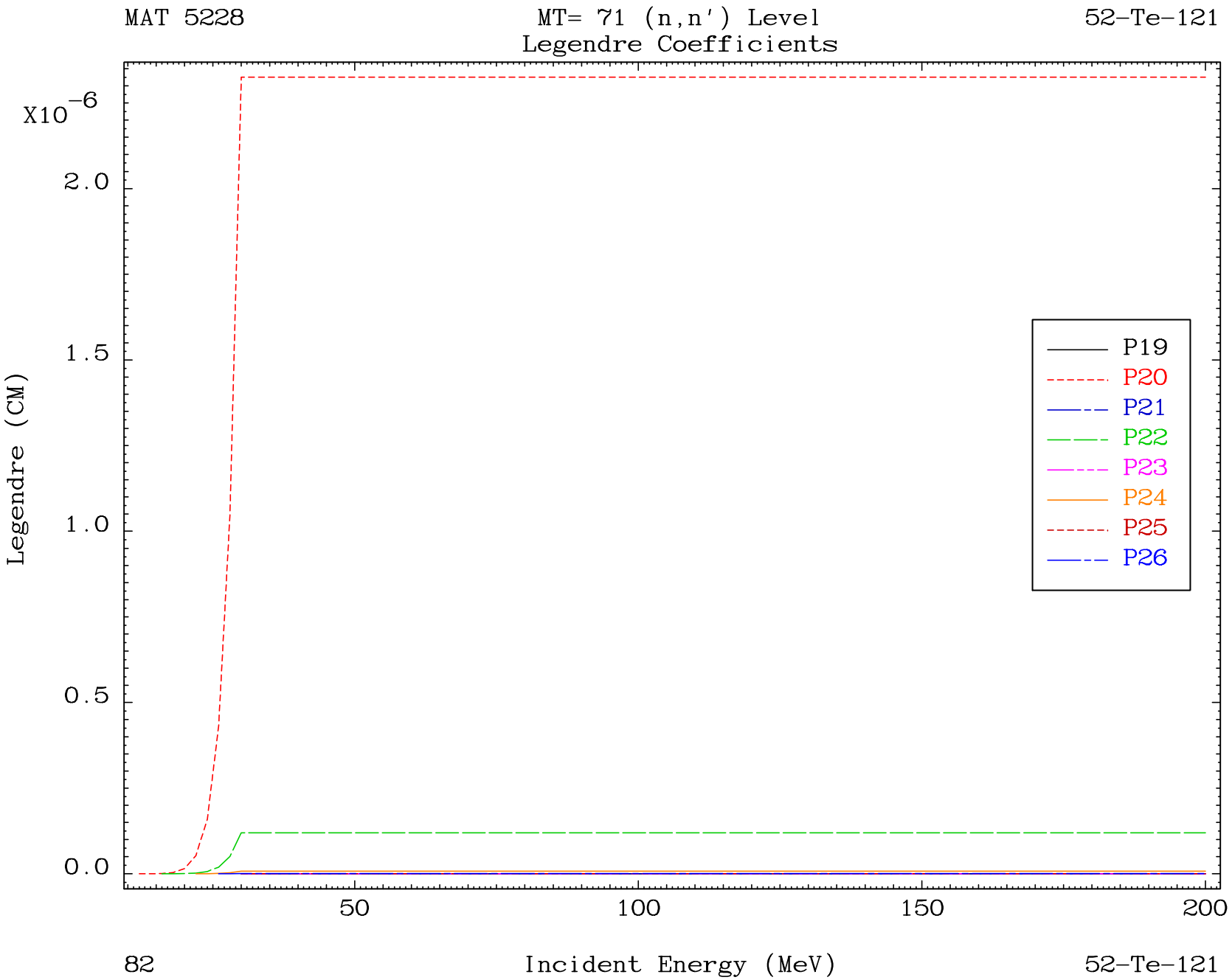

MAT 5228
MT= 70 (n,n') Level
Legendre Coefficients
52-Te-121
0.10
0.08
0.06
0.04
0.02
0.00
-0.02
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
77
Incident Energy (MeV)
52-Te-121

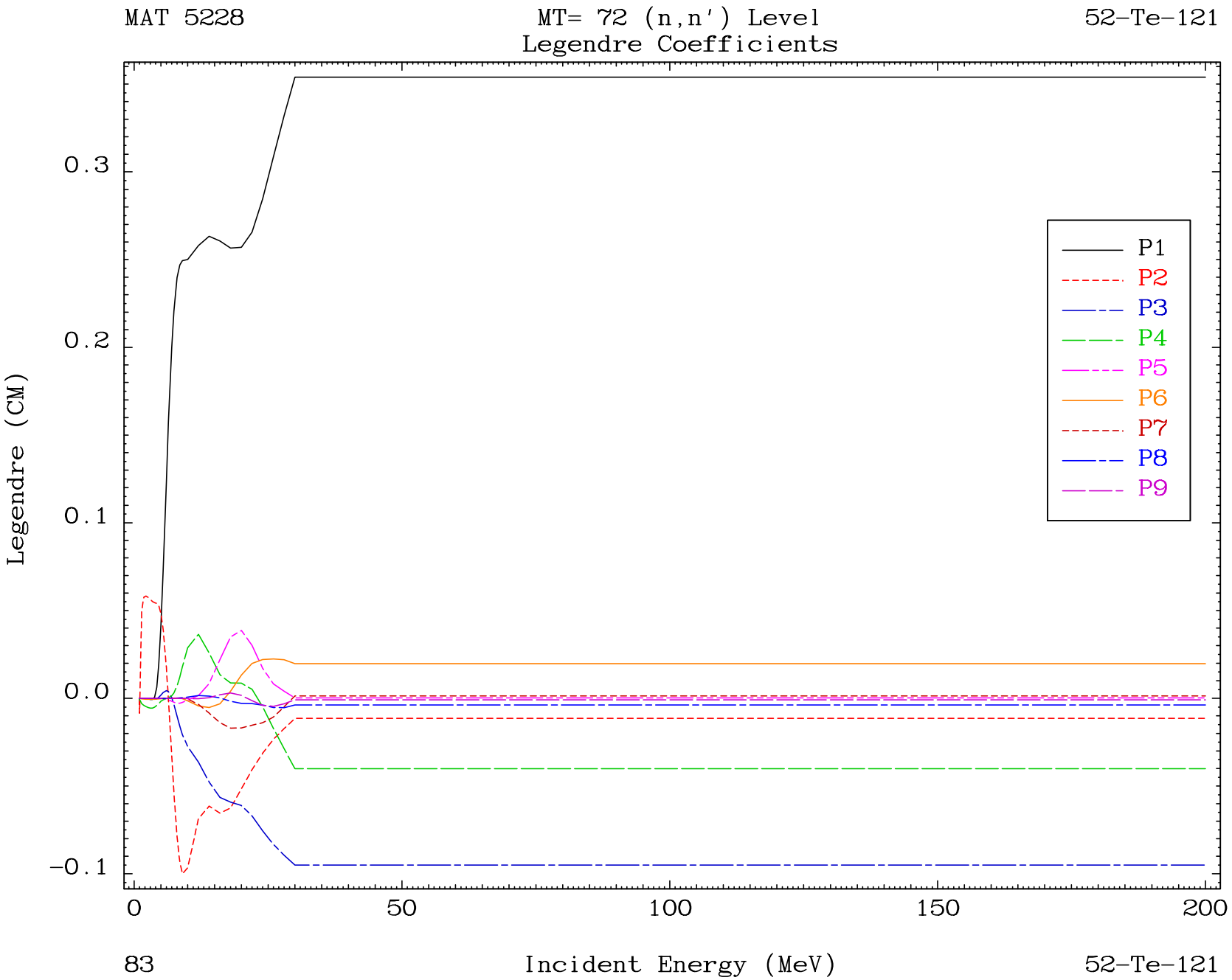

MAT 5228
MT= 70 (n,n') Level
Legendre Coefficients
52-Te-121
X10^-3
0.5
0.0
-0.5
-1.0
Legendre (CM)
0
50
100
150
200
78
Incident Energy (MeV)
52-Te-121
P10
P11
P12
P13
P14
P15
P16
P17
P18

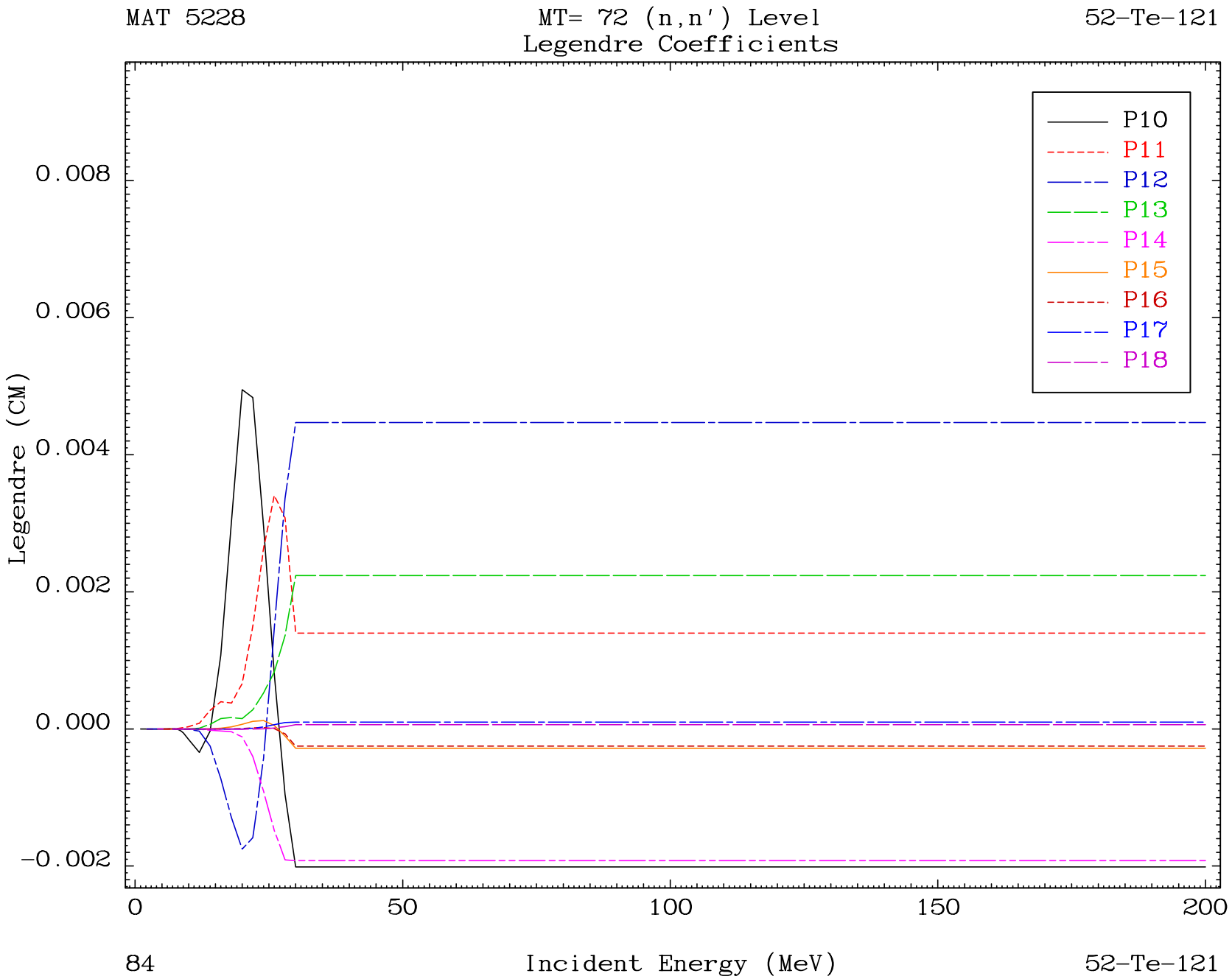

MAT 5228
MT= 70 (n,n') Level
Legendre Coefficients
52-Te-121
0
X10-7
-2
-4
-6
-8
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
50
100
150
200
79
Incident Energy (MeV)
52-Te-121

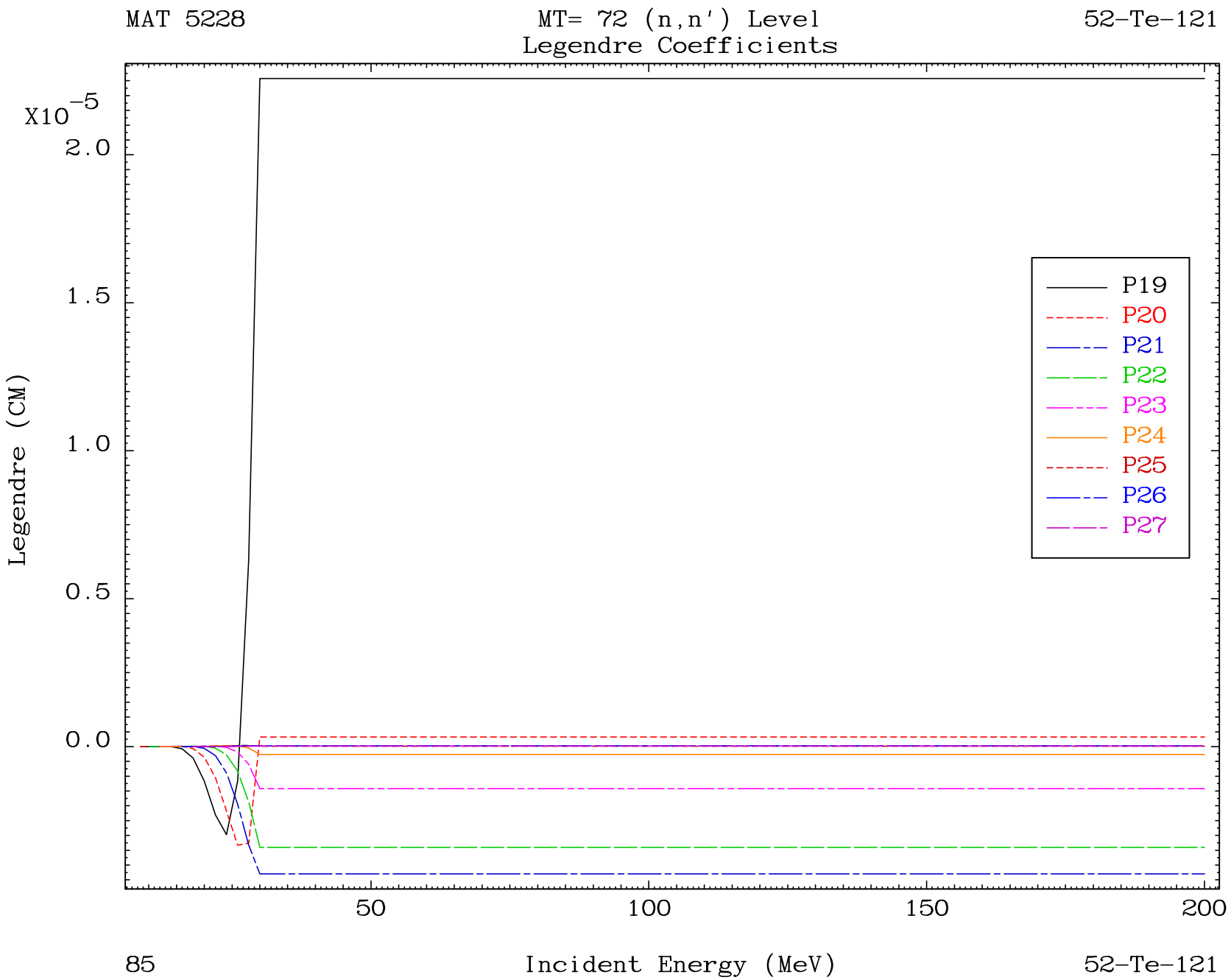

MAT 5228
MT= 71 (n,n') Level
Legendre Coefficients
52-Te-121
0.15
0.10
0.05
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
80
Incident Energy (MeV)
52-Te-121

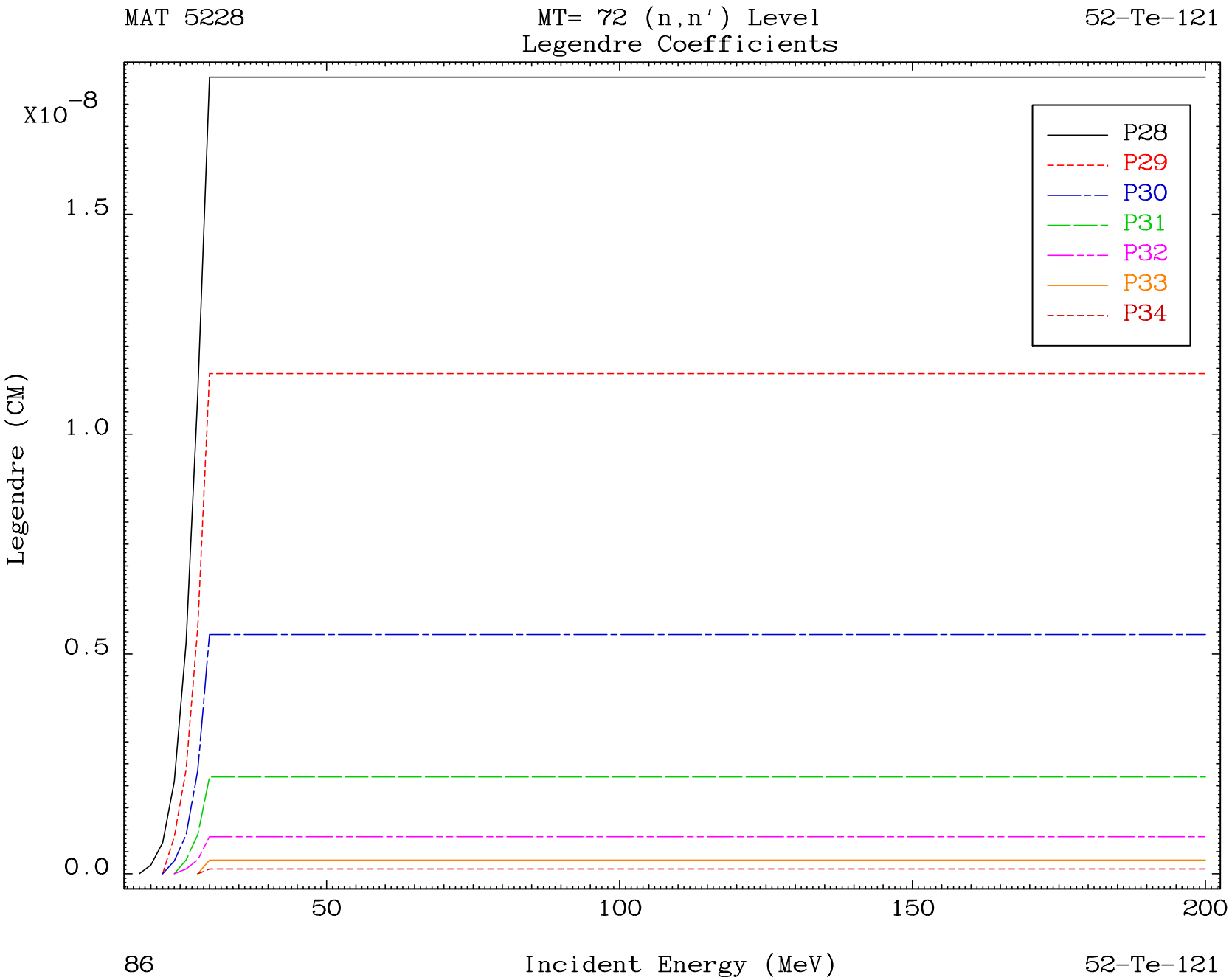

MAT 5228
MT= 71 (n,n') Level
Legendre Coefficients
52-Te-121
0.000
0.000
−0.002
−0.003
Legendre (CM)
0
50
100
150
200
81
Incident Energy (MeV)
52-Te-121
P10
P11
P12
P13
P14
P15
P16
P17
P18

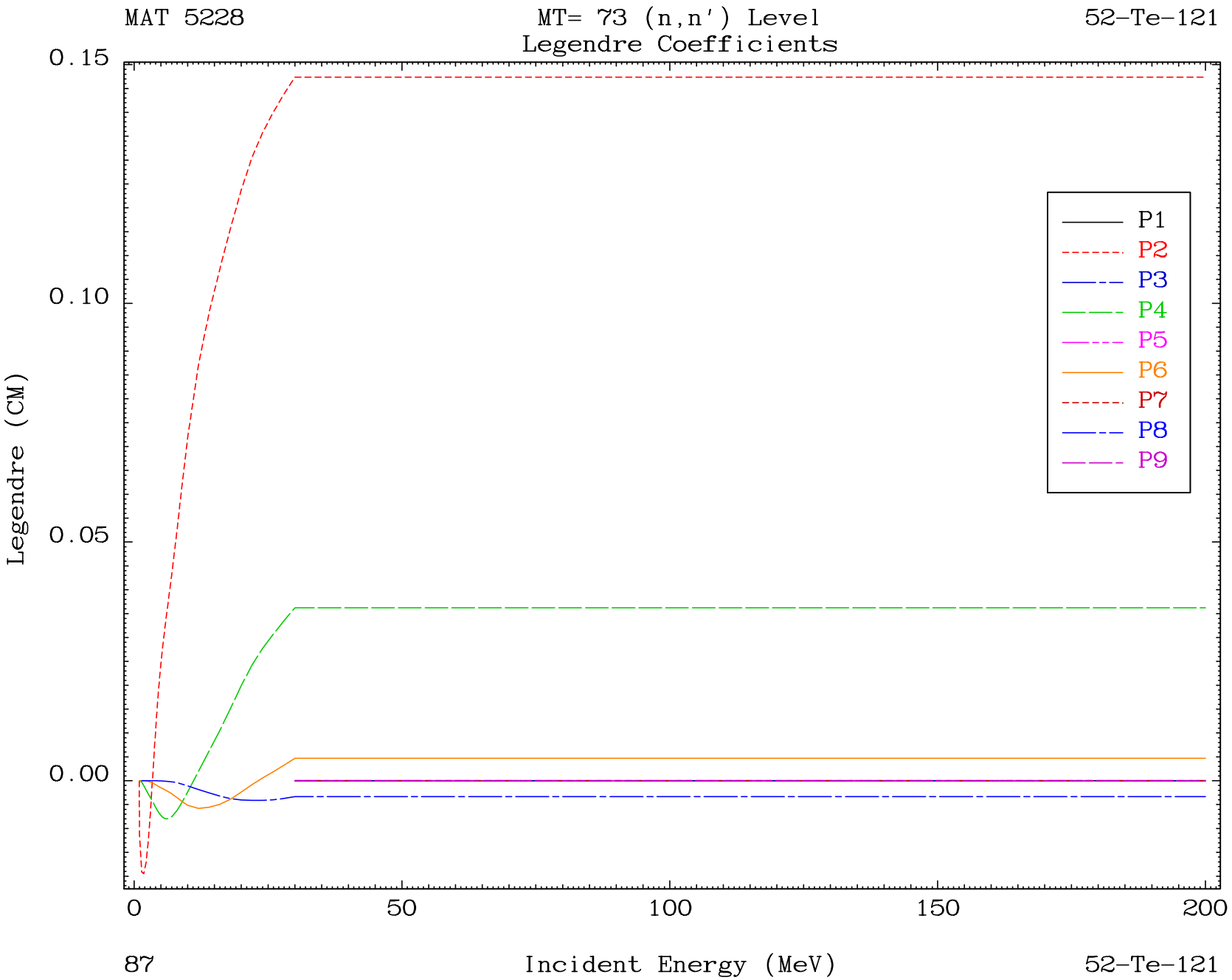

MAT 5228
MT= 71 (n,n') Level
Legendre Coefficients
52-Te-121
X10^-6
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
50
100
150
200
82
Incident Energy (MeV)
52-Te-121

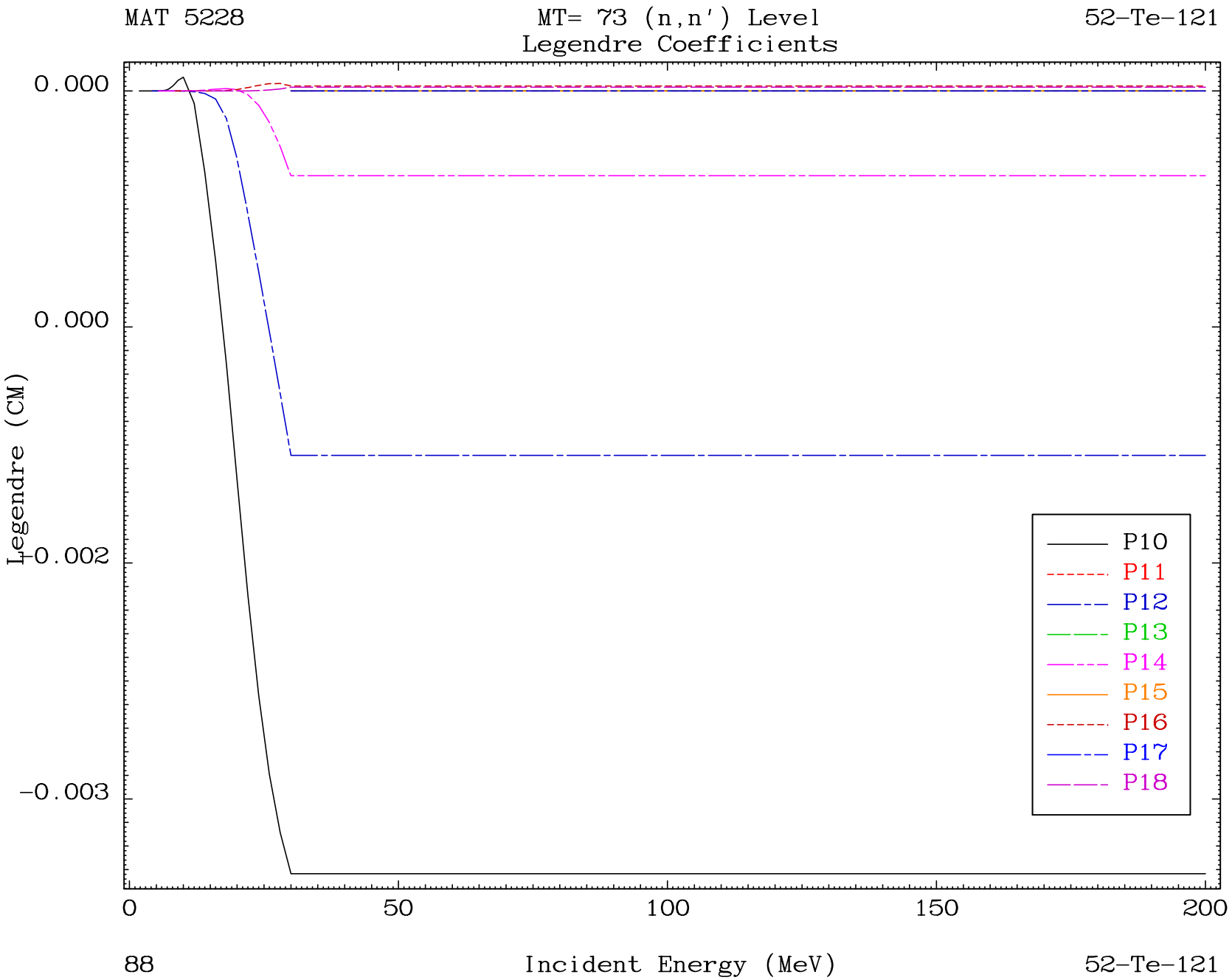

MAT 5228
MT= 72 (n,n') Level
Legendre Coefficients
52-Te-121
Legendre (CM)
0.3
0.2
0.1
0.0
-0.1
0
50
100
150
200
Incident Energy (MeV)
83
52-Te-121
P1
P2
P3
P4
P5
P6
P7
P8
P9

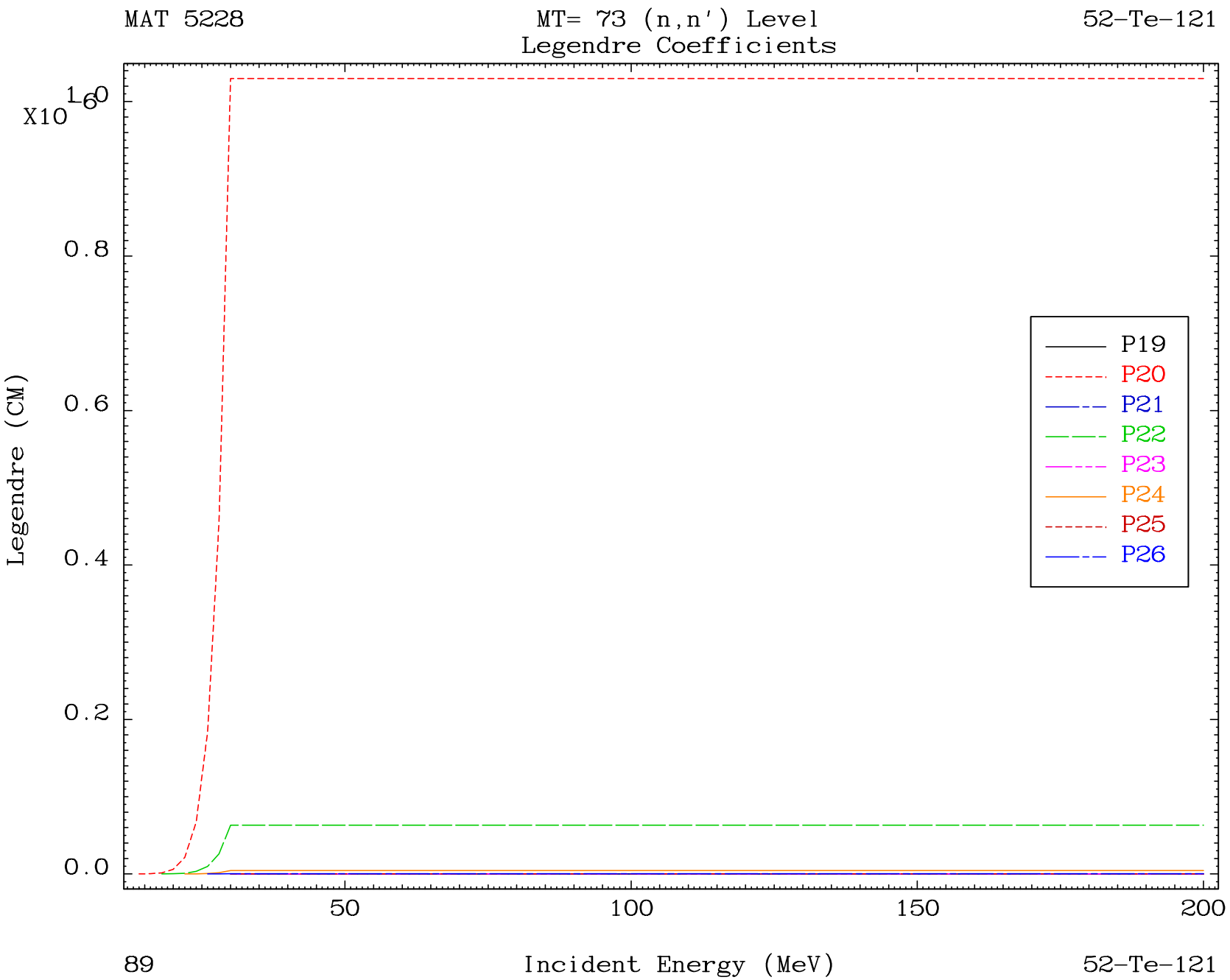

MAT 5228
MT= 72 (n,n') Level
Legendre Coefficients
52-Te-121
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.008
0.006
0.004
0.002
0.000
-0.002
Legendre (CM)
0
50
100
150
200
84
Incident Energy (MeV)
52-Te-121

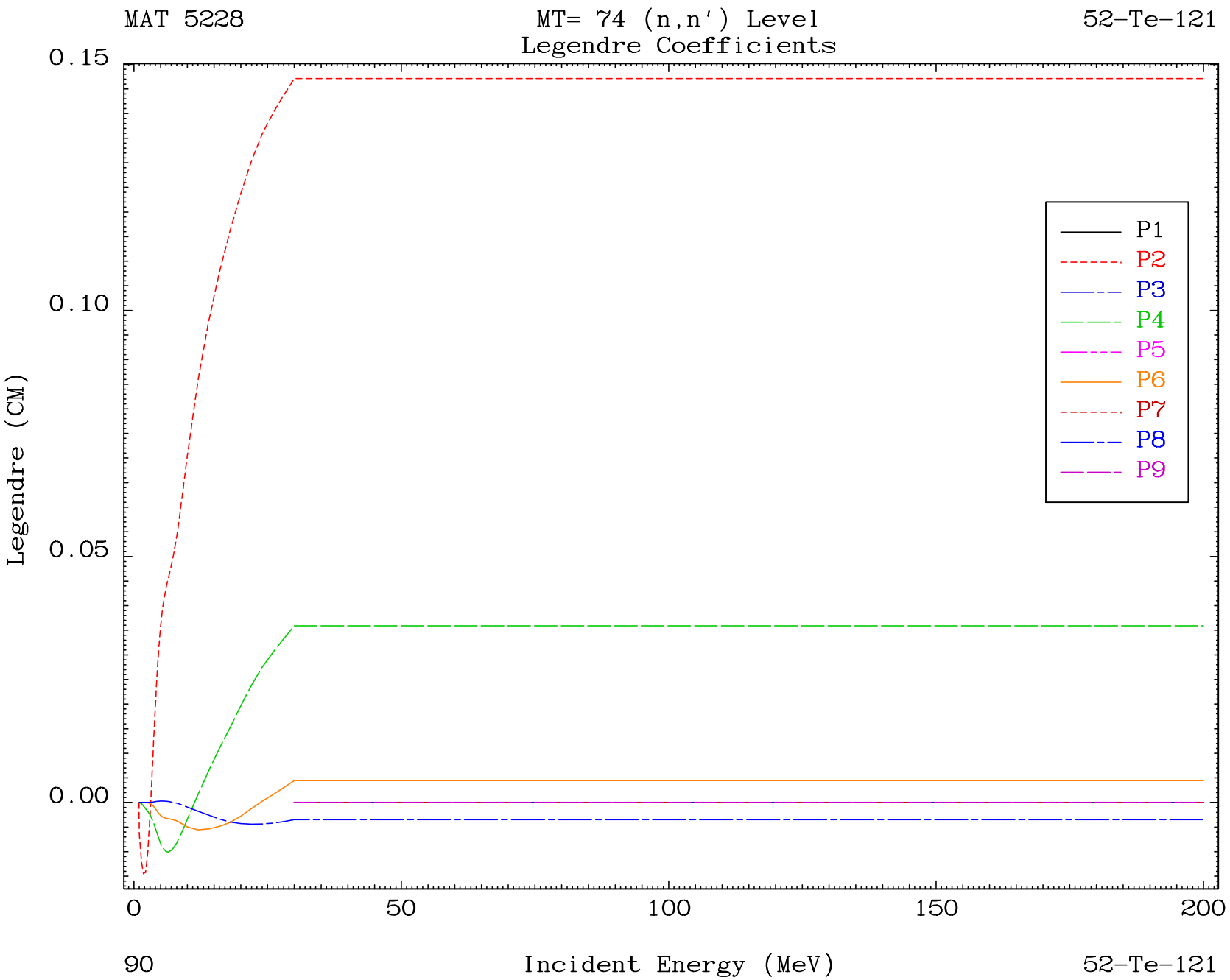

MAT 5228
MT= 72 (n,n') Level
Legendre Coefficients
52-Te-121
X10^-5
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
85
Incident Energy (MeV)
52-Te-121

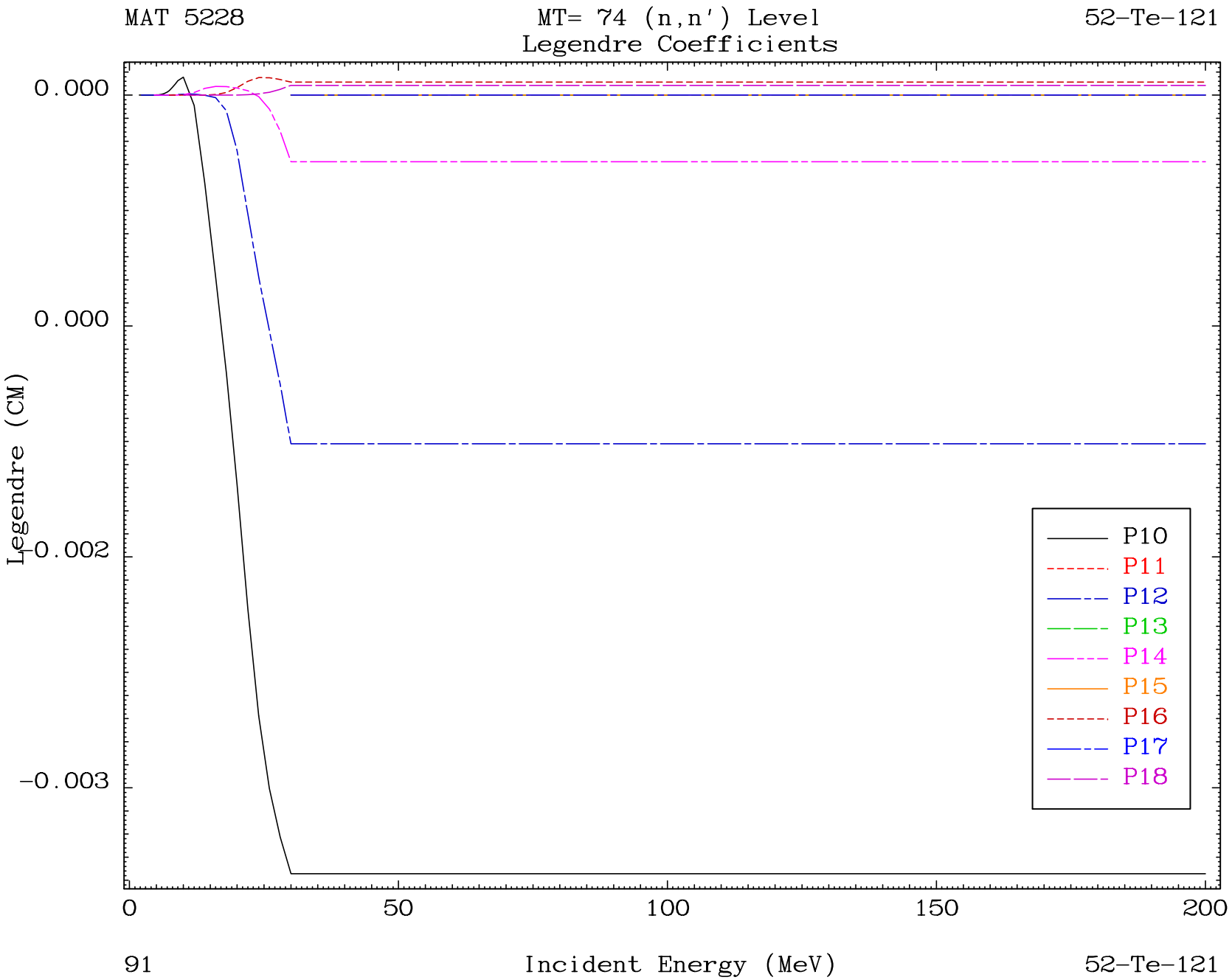

MAT 5228
MT= 72 (n,n') Level
Legendre Coefficients
52-Te-121
X10−8
1.5
1.0
0.5
0.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
86
Incident Energy (MeV)
52-Te-121

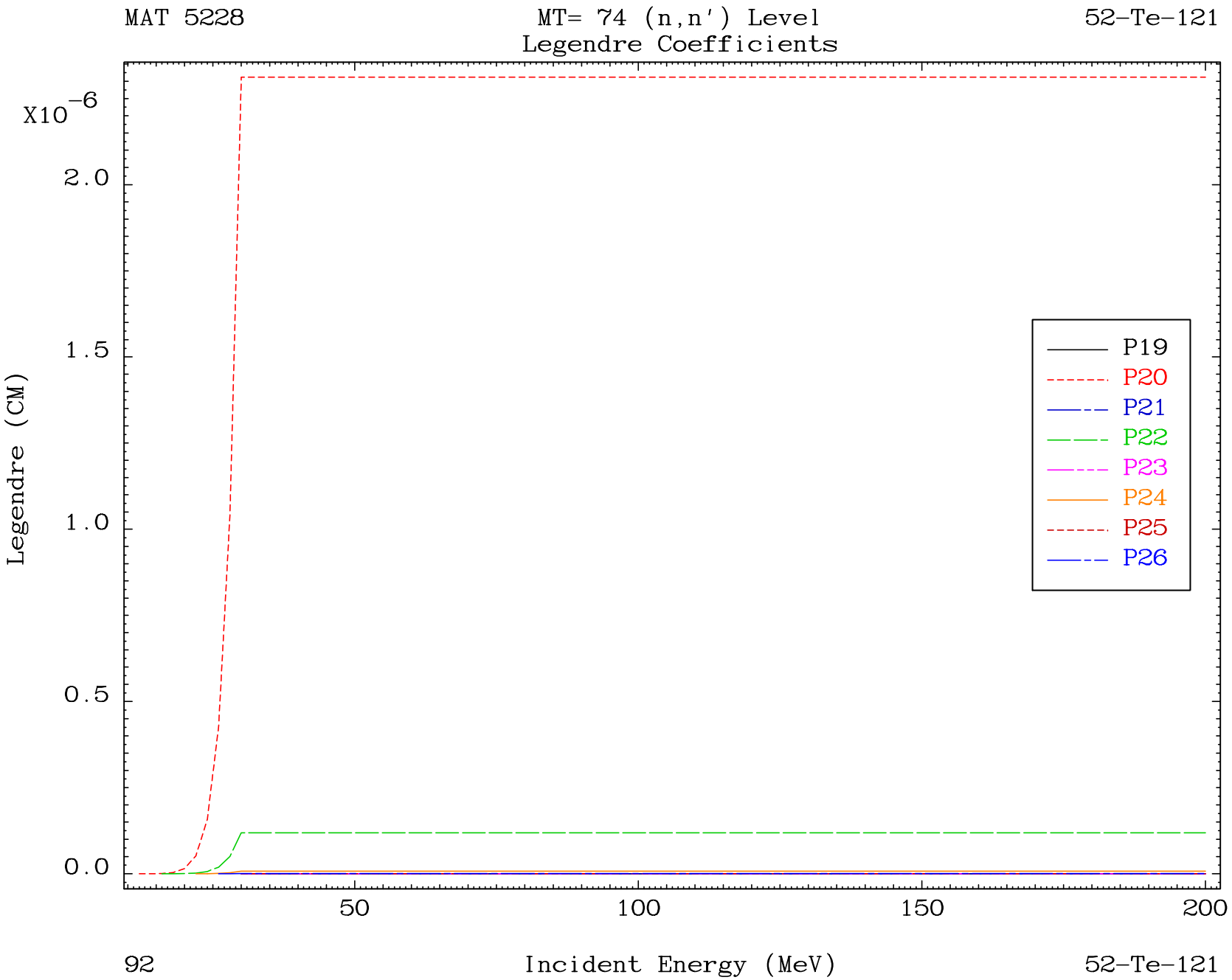

MAT 5228
MT= 73 (n,n') Level
Legendre Coefficients
52-Te-121
0.15
0.10
0.05
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
87
Incident Energy (MeV)
52-Te-121

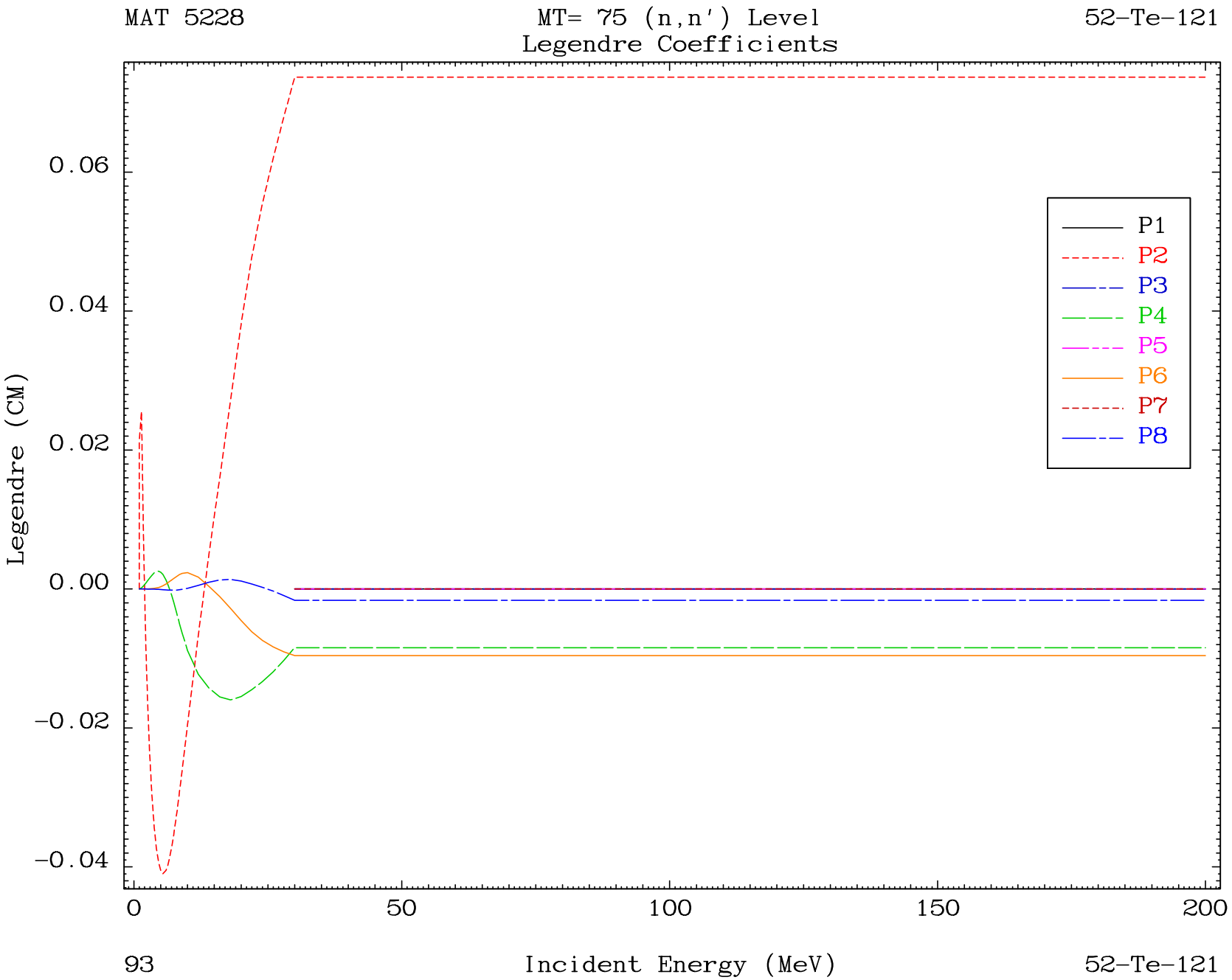

MAT 5228
MT= 73 (n,n') Level
Legendre Coefficients
52-Te-121
0.000
0.000
-0.002
-0.003
Legendre (CM)
0
50
100
150
200
88
Incident Energy (MeV)
52-Te-121
P10
P11
P12
P13
P14
P15
P16
P17
P18

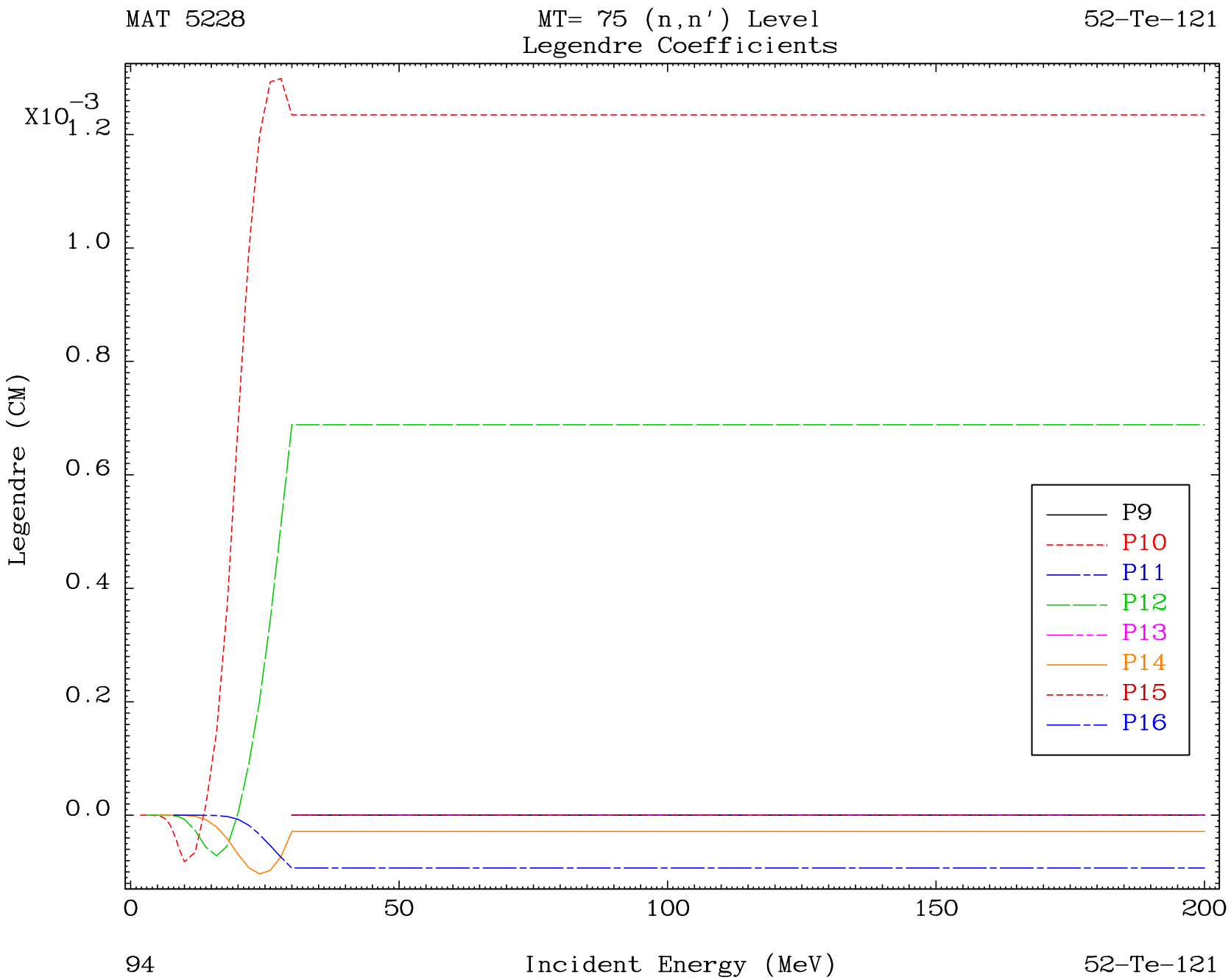

MAT 5228
MT= 73 (n,n') Level
Legendre Coefficients
52-Te-121
X10^0
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
50
100
150
200
89
Incident Energy (MeV)
52-Te-121
P19
P20
P21
P22
P23
P24
P25
P26

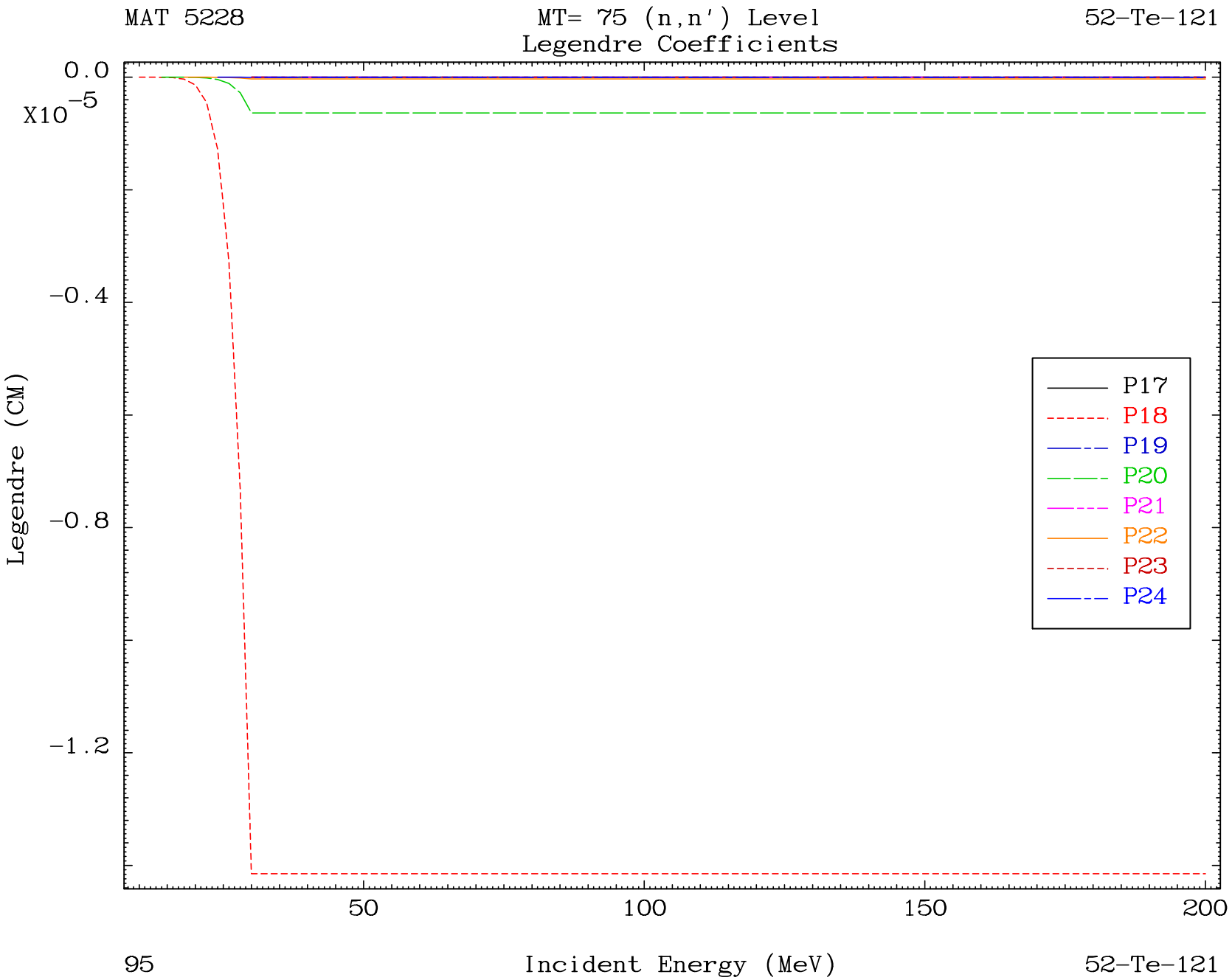

MAT 5228
MT= 74 (n,n') Level
Legendre Coefficients
52-Te-121
0.15
0.10
0.05
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
90
Incident Energy (MeV)
52-Te-121

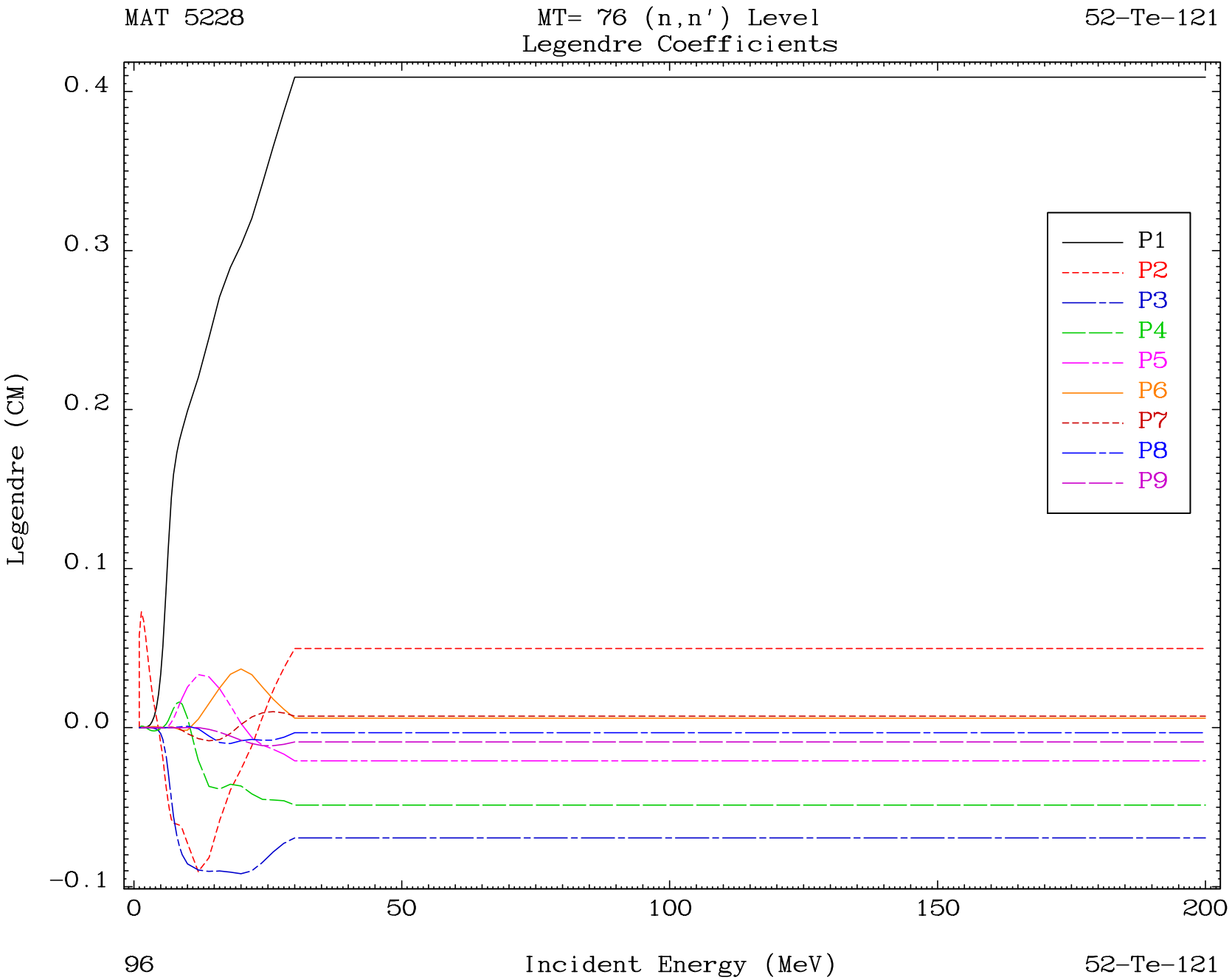

MAT 5228
MT= 74 (n,n') Level
Legendre Coefficients
52-Te-121
0.000
0.000
-0.002
-0.003
Legendre (CM)
0
50
100
150
200
91
Incident Energy (MeV)
52-Te-121
P10
P11
P12
P13
P14
P15
P16
P17
P18

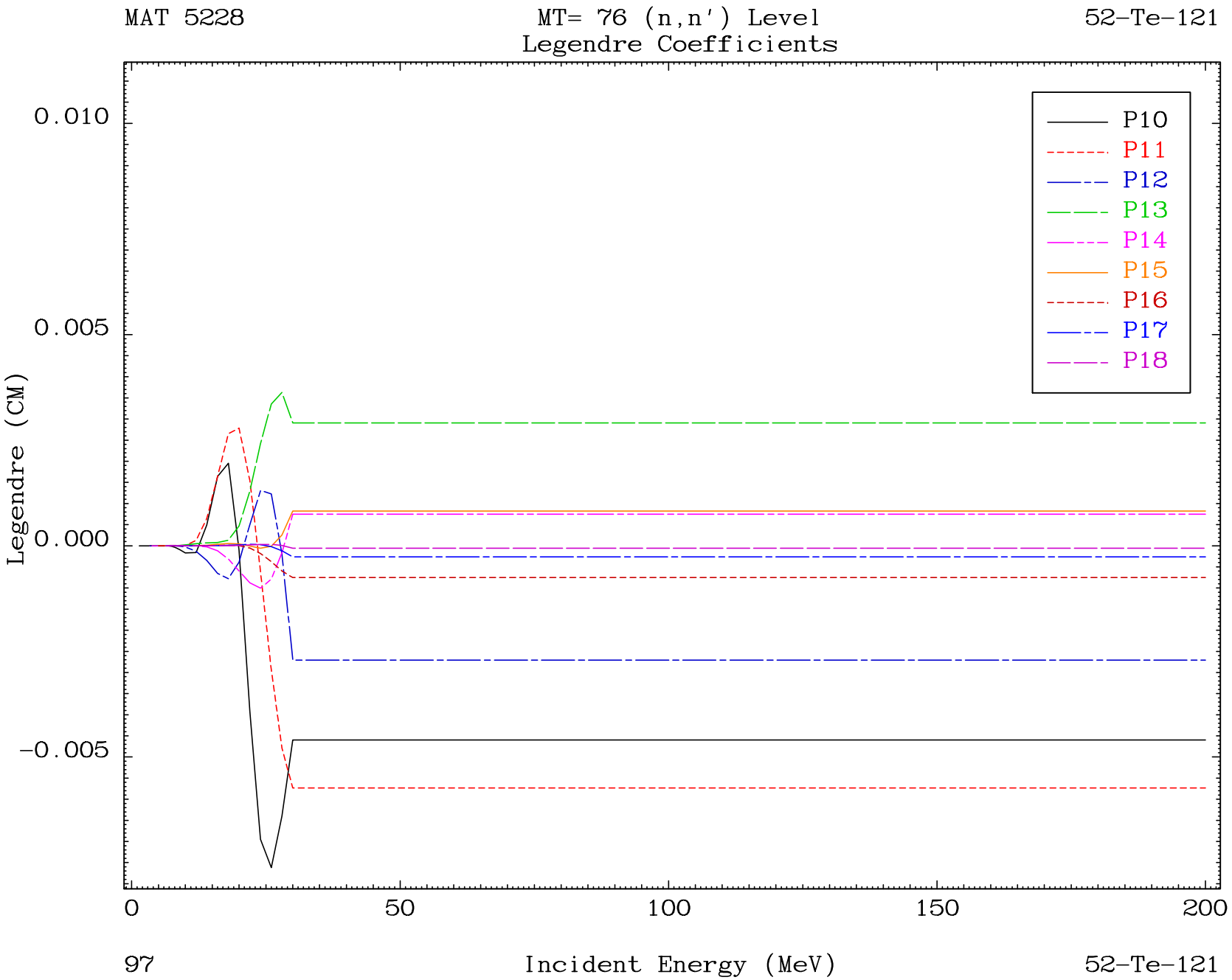

MAT 5228
MT= 74 (n,n') Level
Legendre Coefficients
52-Te-121
X10^-6
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
50
100
150
200
92
Incident Energy (MeV)
52-Te-121

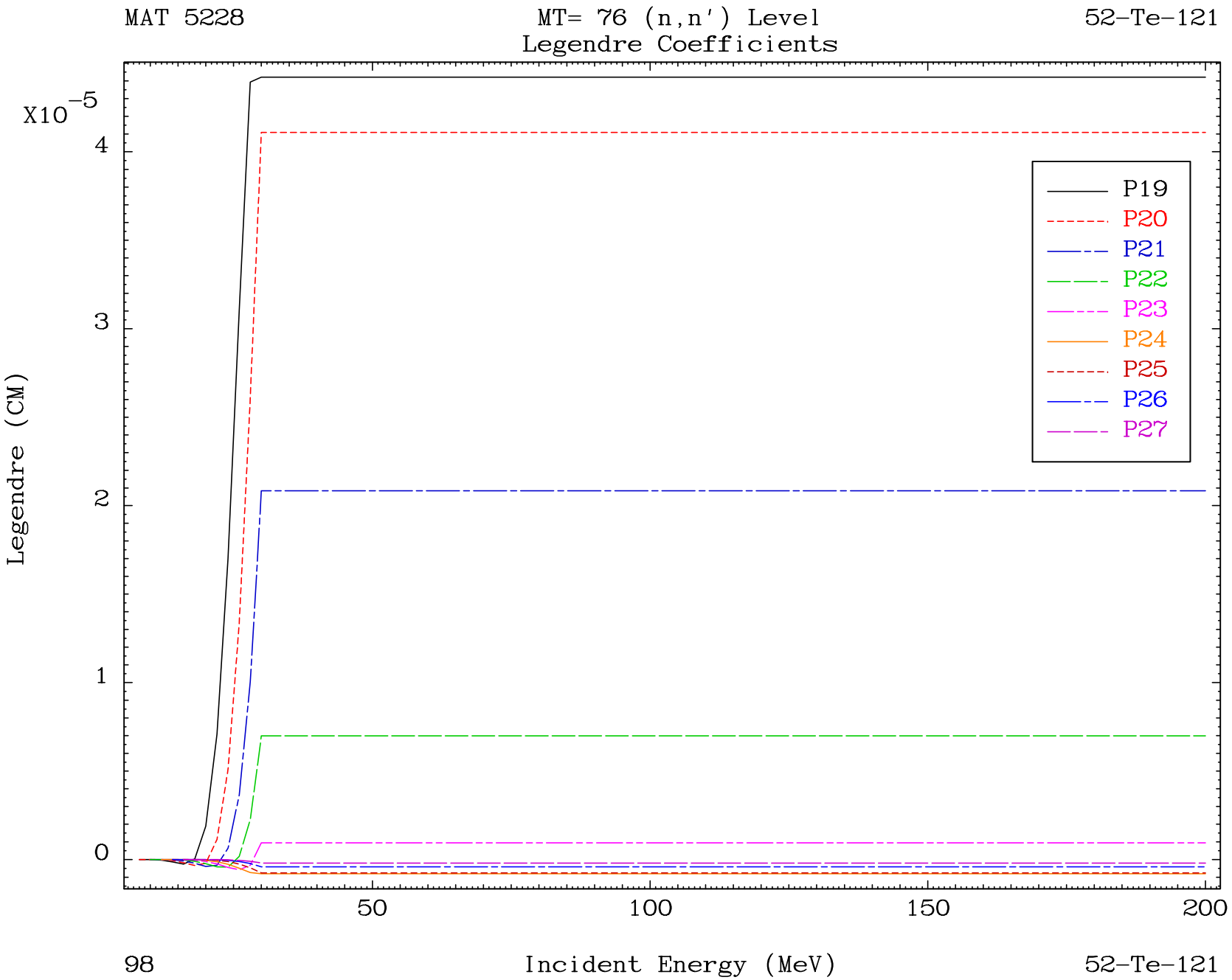

MAT 5228
MT= 75 (n,n') Level
Legendre Coefficients
52-Te-121
0.06
0.04
0.02
0.00
-0.02
-0.04
Legendre (CM)
0
50
100
150
200
93
Incident Energy (MeV)
52-Te-121
P1
P2
P3
P4
P5
P6
P7
P8

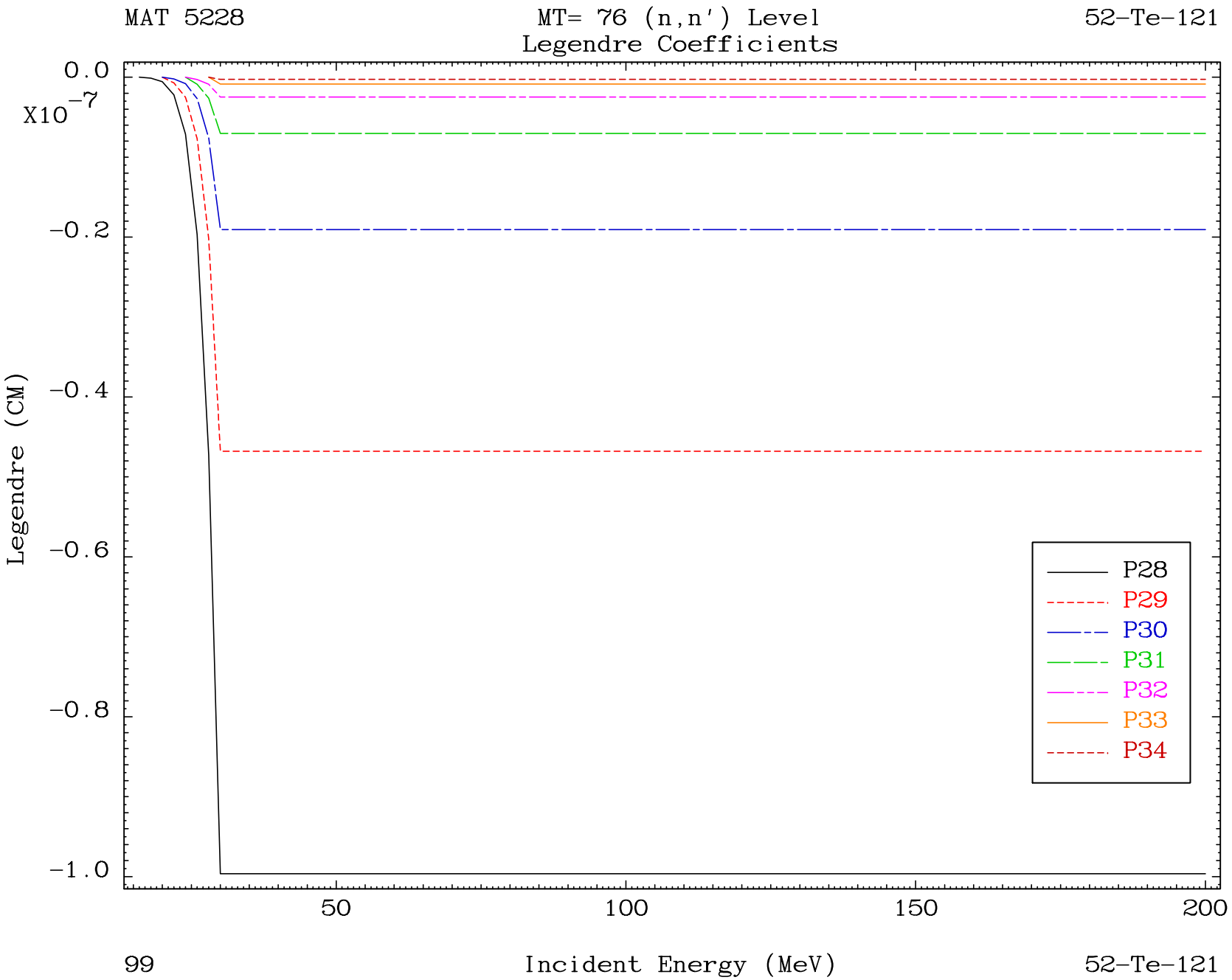

MAT 5228
MT= 75 (n,n') Level
Legendre Coefficients
52-Te-121
X10-3
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
0
50
100
150
200
94
Incident Energy (MeV)
52-Te-121
P9
P10
P11
P12
P13
P14
P15
P16

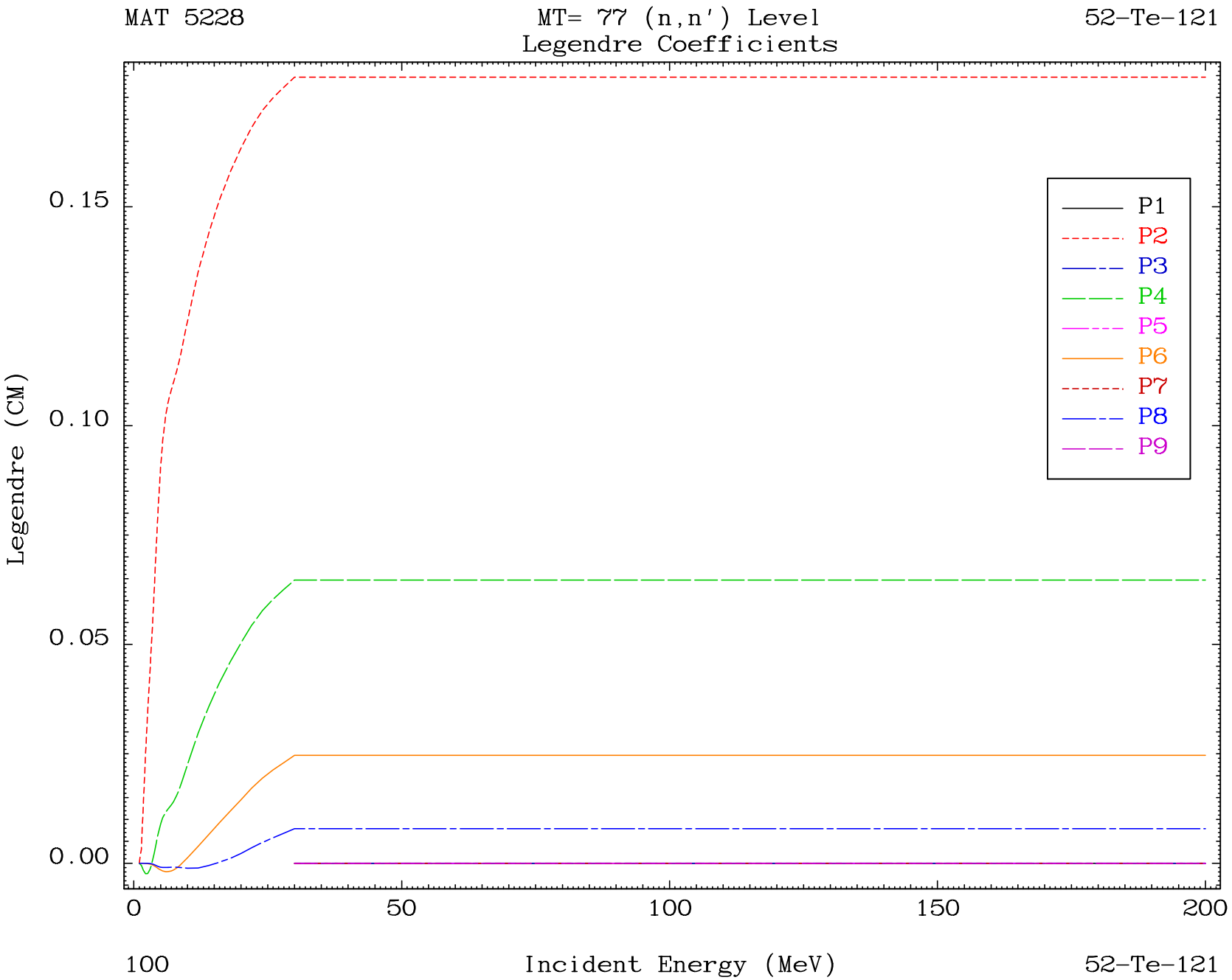

MAT 5228
MT= 75 (n,n') Level
Legendre Coefficients
52-Te-121
0.0
X10^-5
-0.4
-0.8
-1.2
Legendre (CM)
P17
P18
P19
P20
P21
P22
P23
P24
50
100
150
200
95
Incident Energy (MeV)
52-Te-121

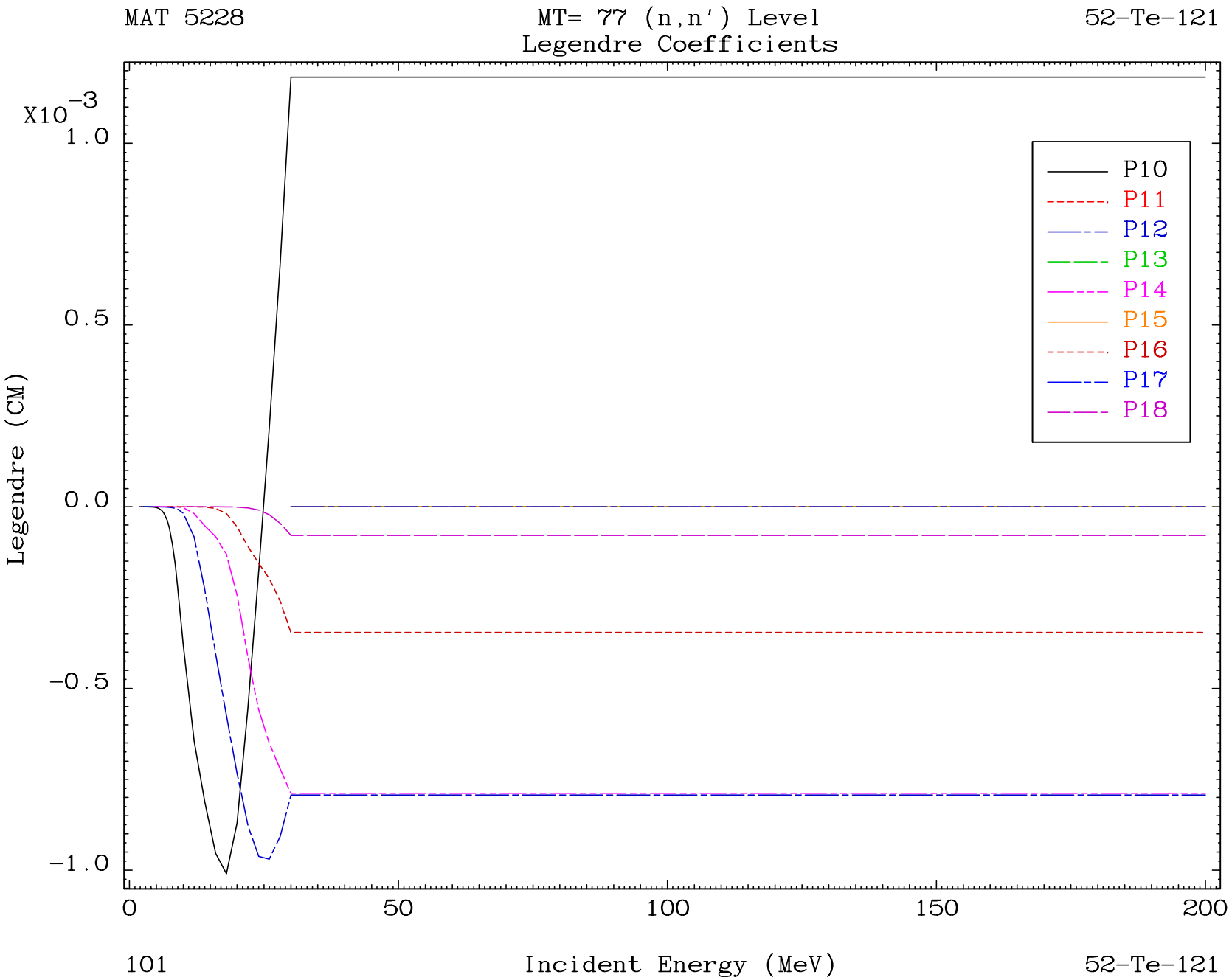

MAT 5228
MT= 76 (n,n') Level
Legendre Coefficients
52-Te-121
0.4
0.3
0.2
0.1
0.0
-0.1
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
96
Incident Energy (MeV)
52-Te-121

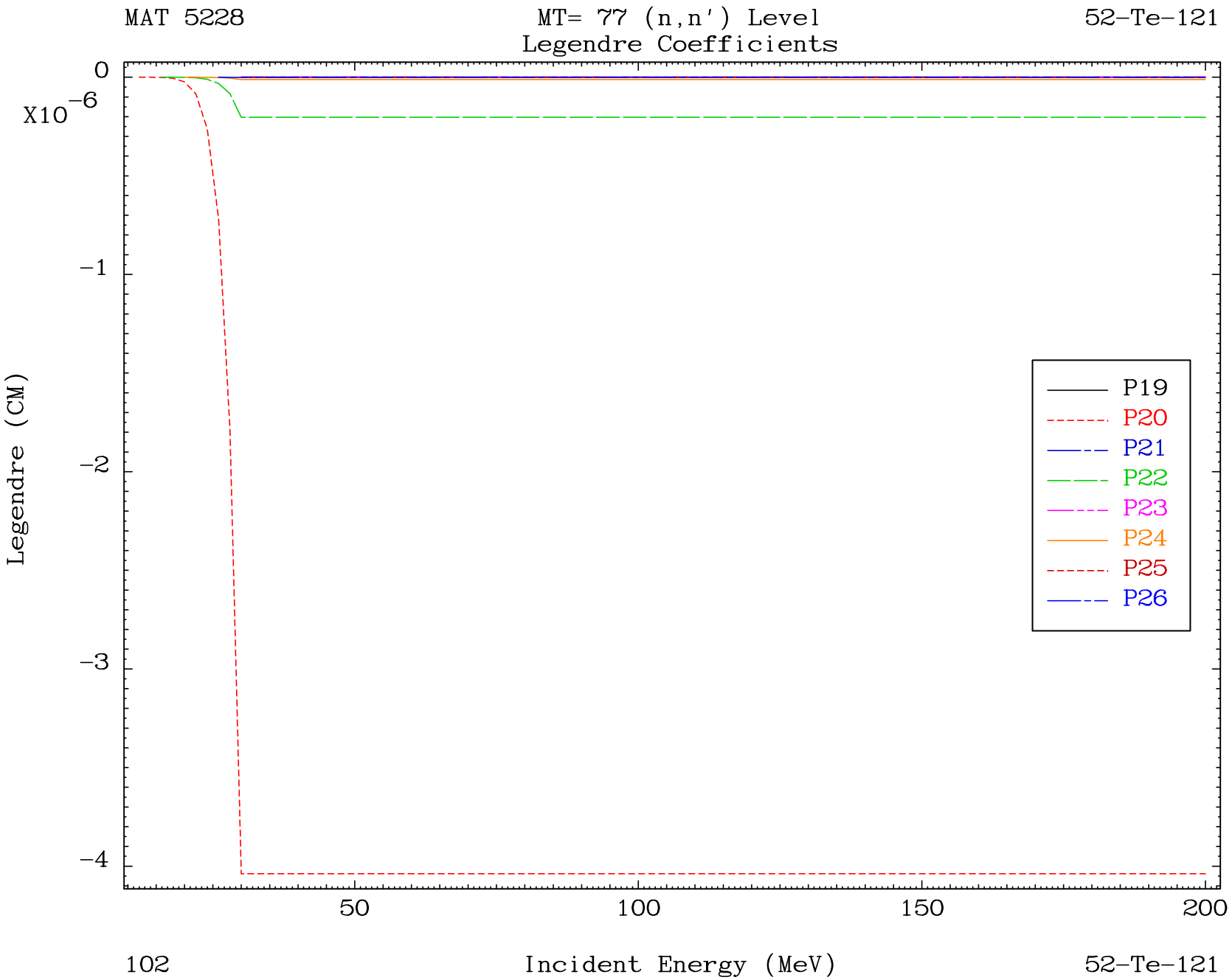

MAT 5228
MT= 76 (n,n') Level
Legendre Coefficients
52-Te-121
0.010
0.005
0.000
-0.005
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
97
Incident Energy (MeV)
52-Te-121

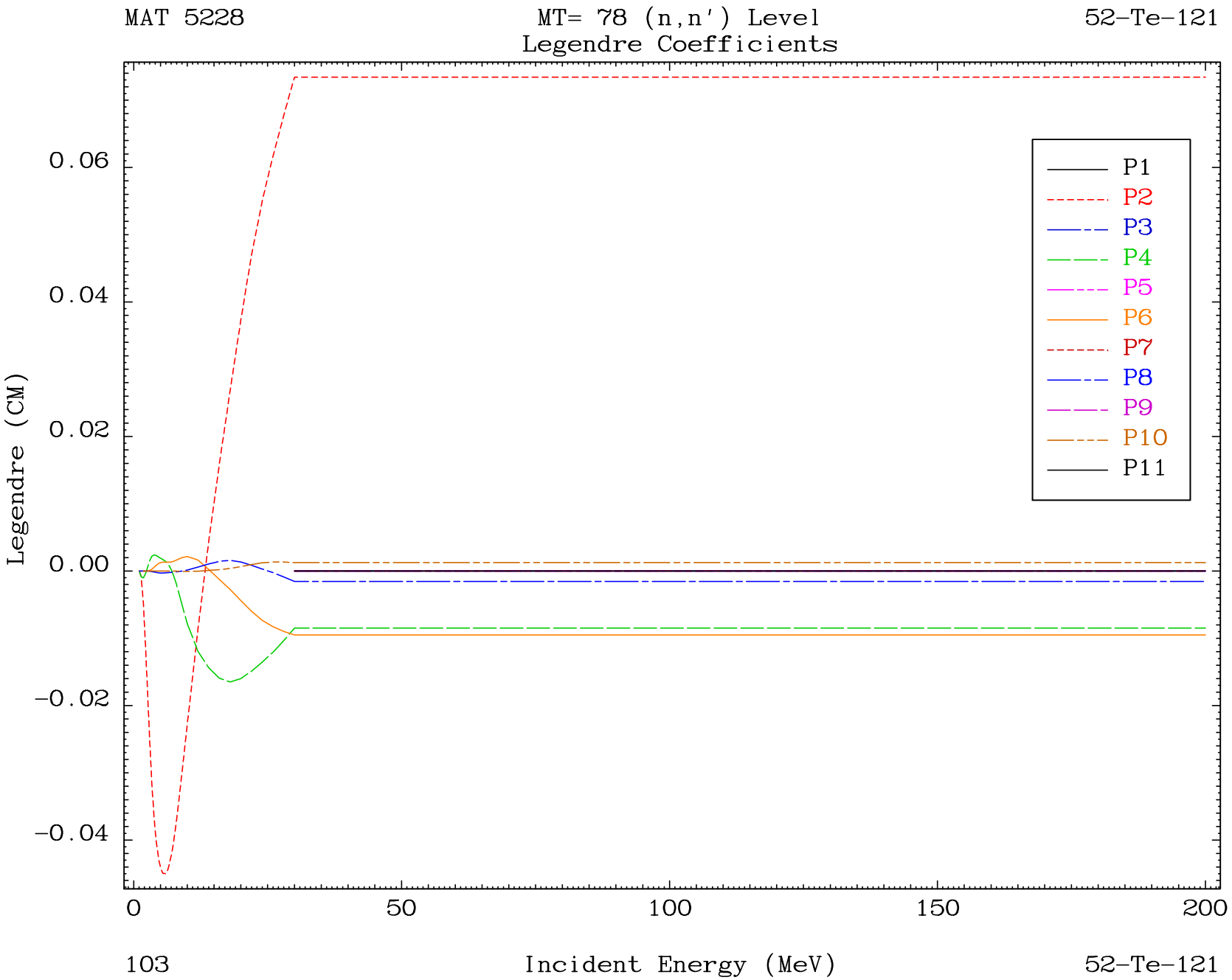

MAT 5228
MT= 76 (n,n') Level
Legendre Coefficients
52-Te-121
X10 −5
4
3
2
1
0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
98
Incident Energy (MeV)
52-Te-121

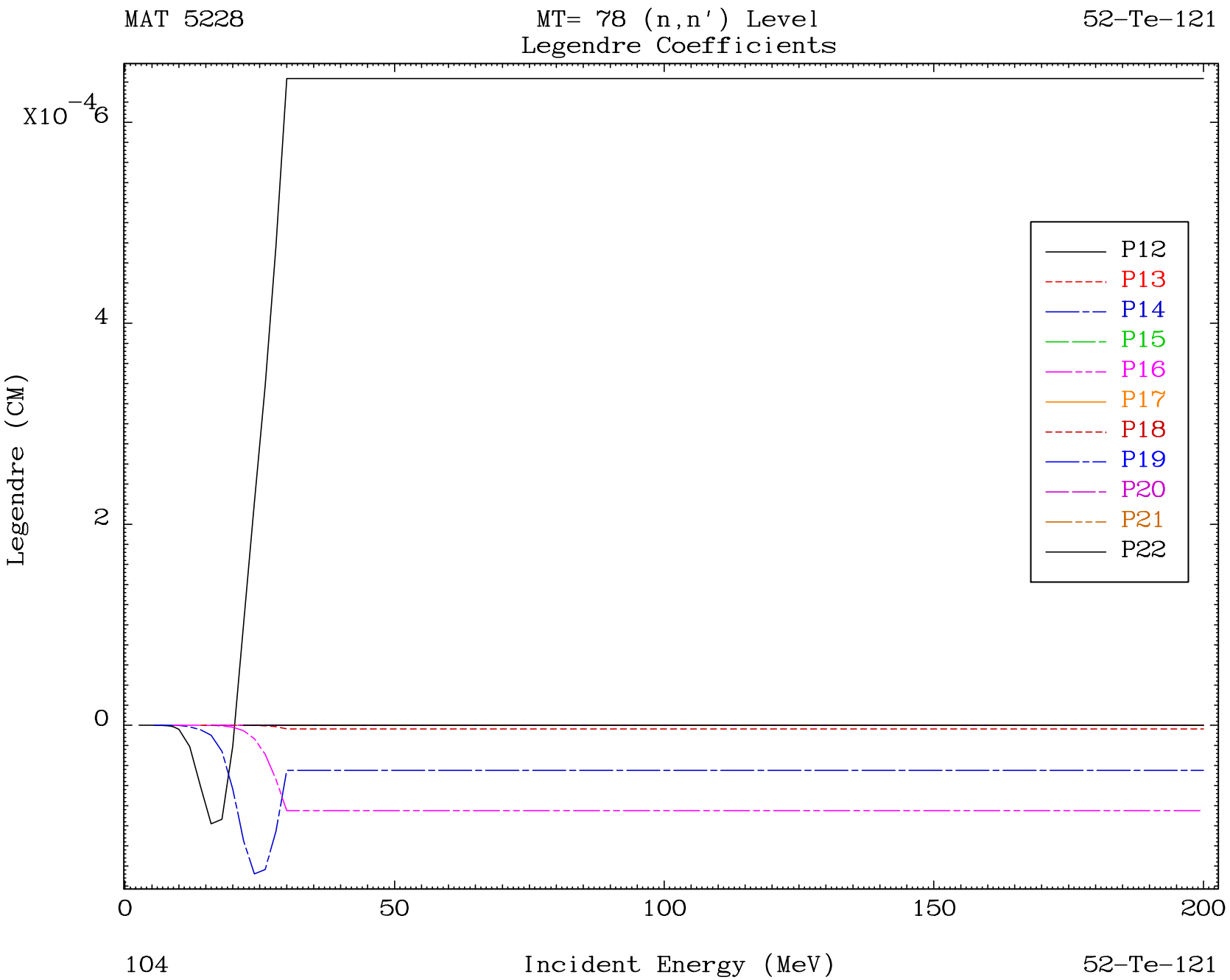

MAT 5228
MT= 76 (n,n') Level
Legendre Coefficients
52-Te-121
0.0
X10^-7
-0.2
-0.4
-0.6
-0.8
-1.0
Legendre (CM)
50
100
150
200
99
Incident Energy (MeV)
52-Te-121
P28
P29
P30
P31
P32
P33
P34

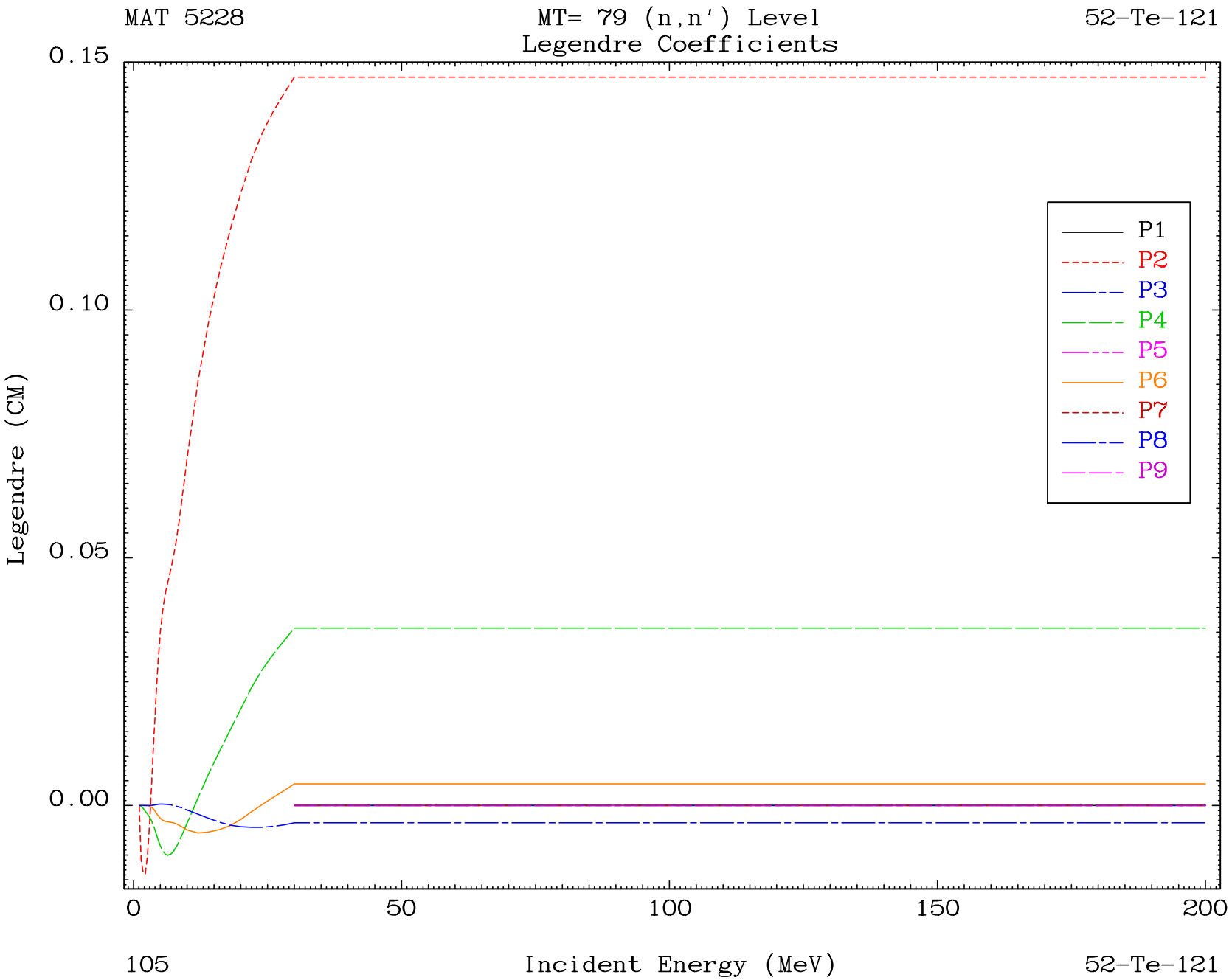

MAT 5228
MT= 77 (n,n') Level
Legendre Coefficients
52-Te-121
Legendre (CM)
0.15
0.10
0.05
0.00
0
50
100
150
200
100
Incident Energy (MeV)
52-Te-121
P1
P2
P3
P4
P5
P6
P7
P8
P9

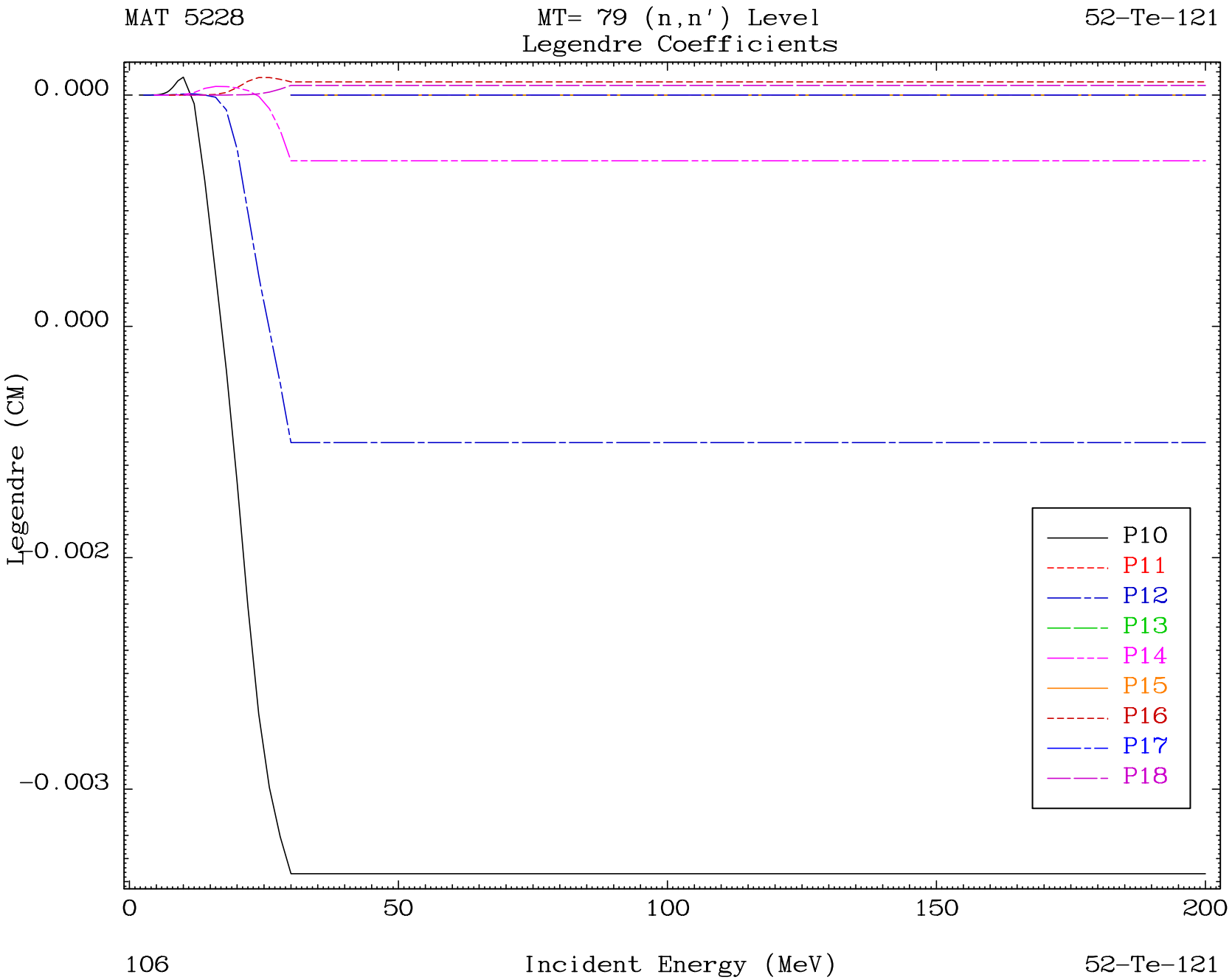

MAT 5228
MT= 77 (n,n') Level
Legendre Coefficients
52-Te-121
X10^-3
1.0
0.5
0.0
-0.5
-1.0
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
101
Incident Energy (MeV)
52-Te-121

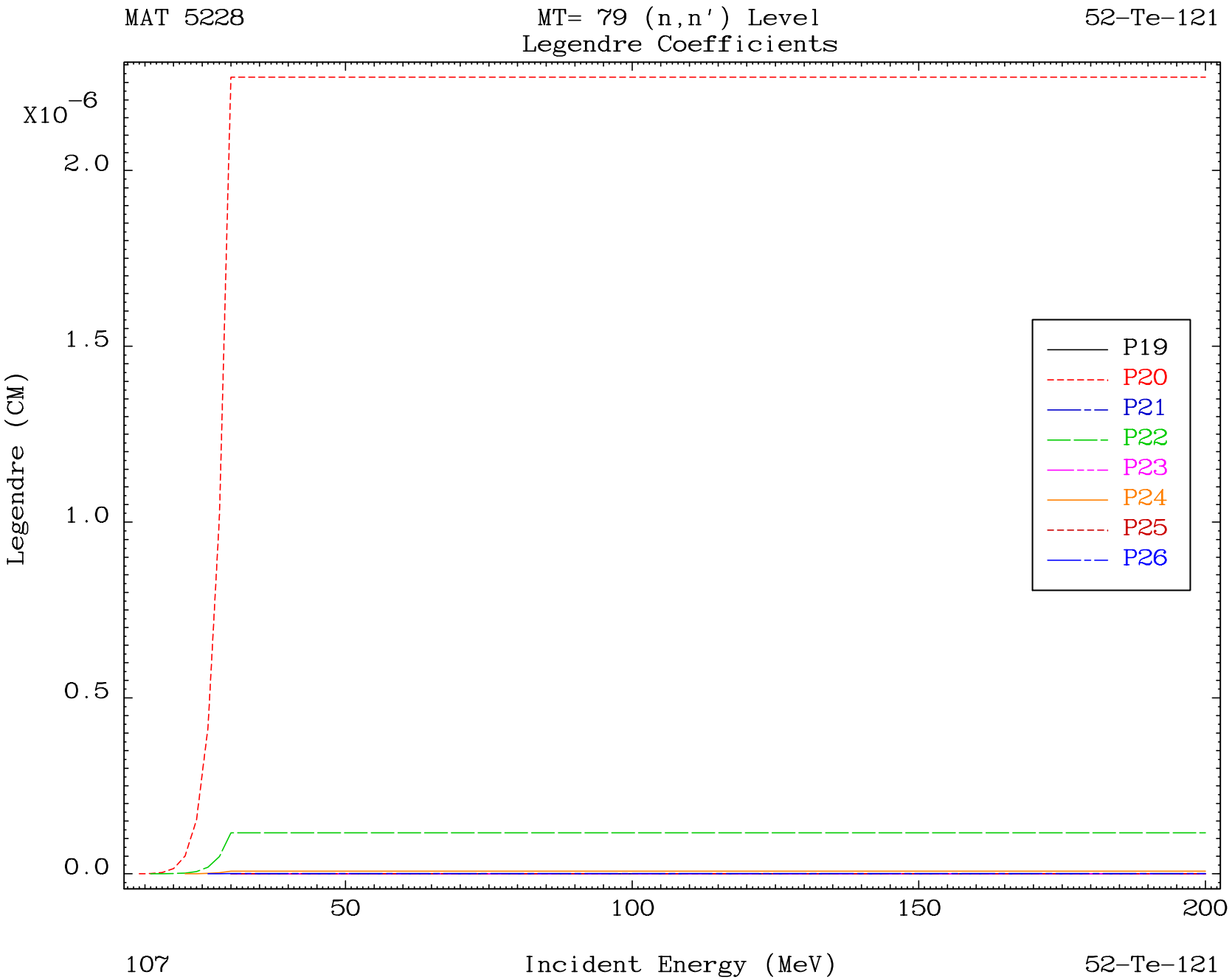

MAT 5228
MT= 77 (n,n') Level
Legendre Coefficients
52-Te-121
0
X10−6
−1
−2
−3
−4
Legendre (CM)
50
100
150
200
102
Incident Energy (MeV)
52-Te-121
P19
P20
P21
P22
P23
P24
P25
P26

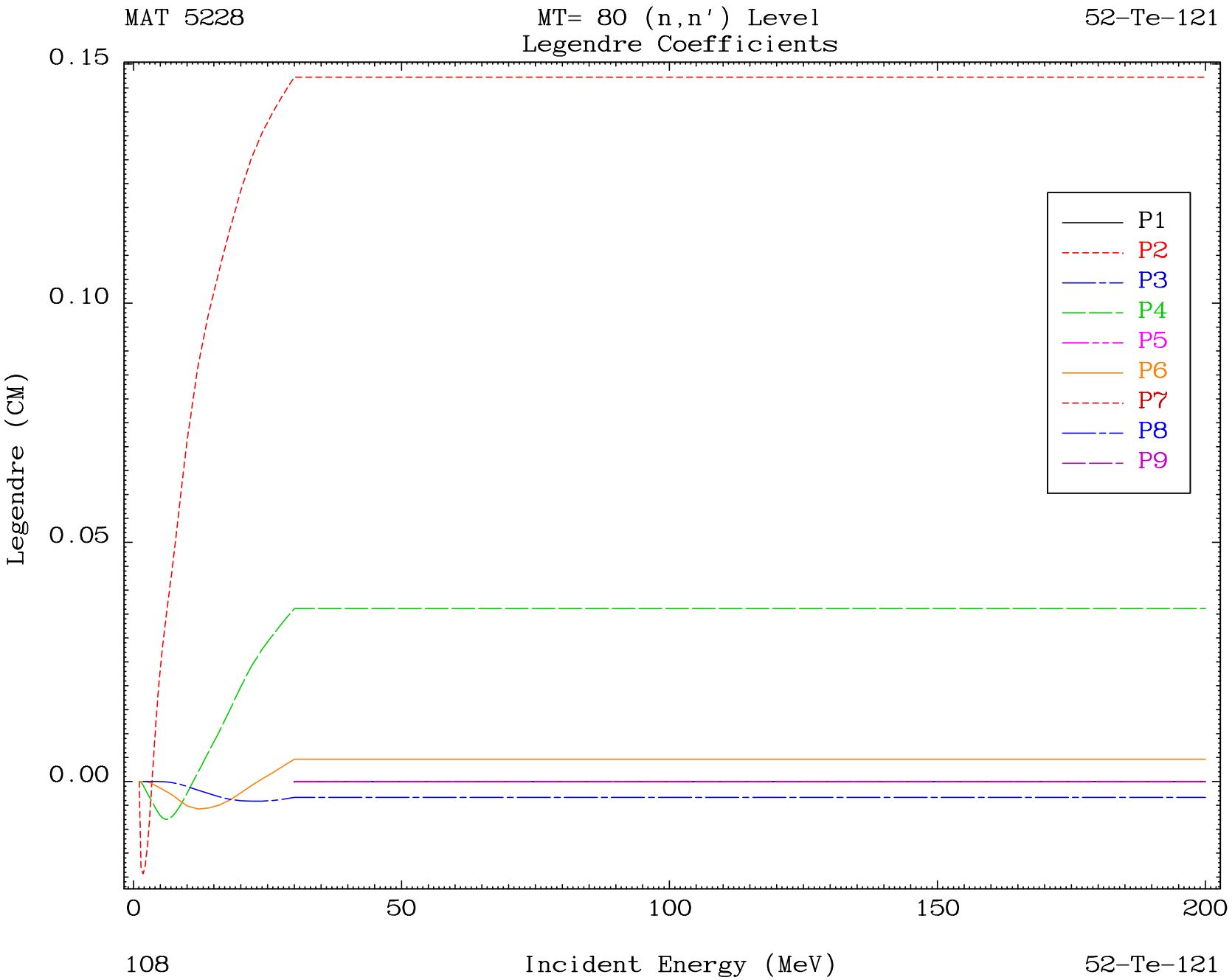

MAT 5228
MT= 78 (n,n') Level
Legendre Coefficients
52-Te-121
0.06
0.04
0.02
0.00
-0.02
-0.04
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11
0
50
100
150
200
103
Incident Energy (MeV)
52-Te-121

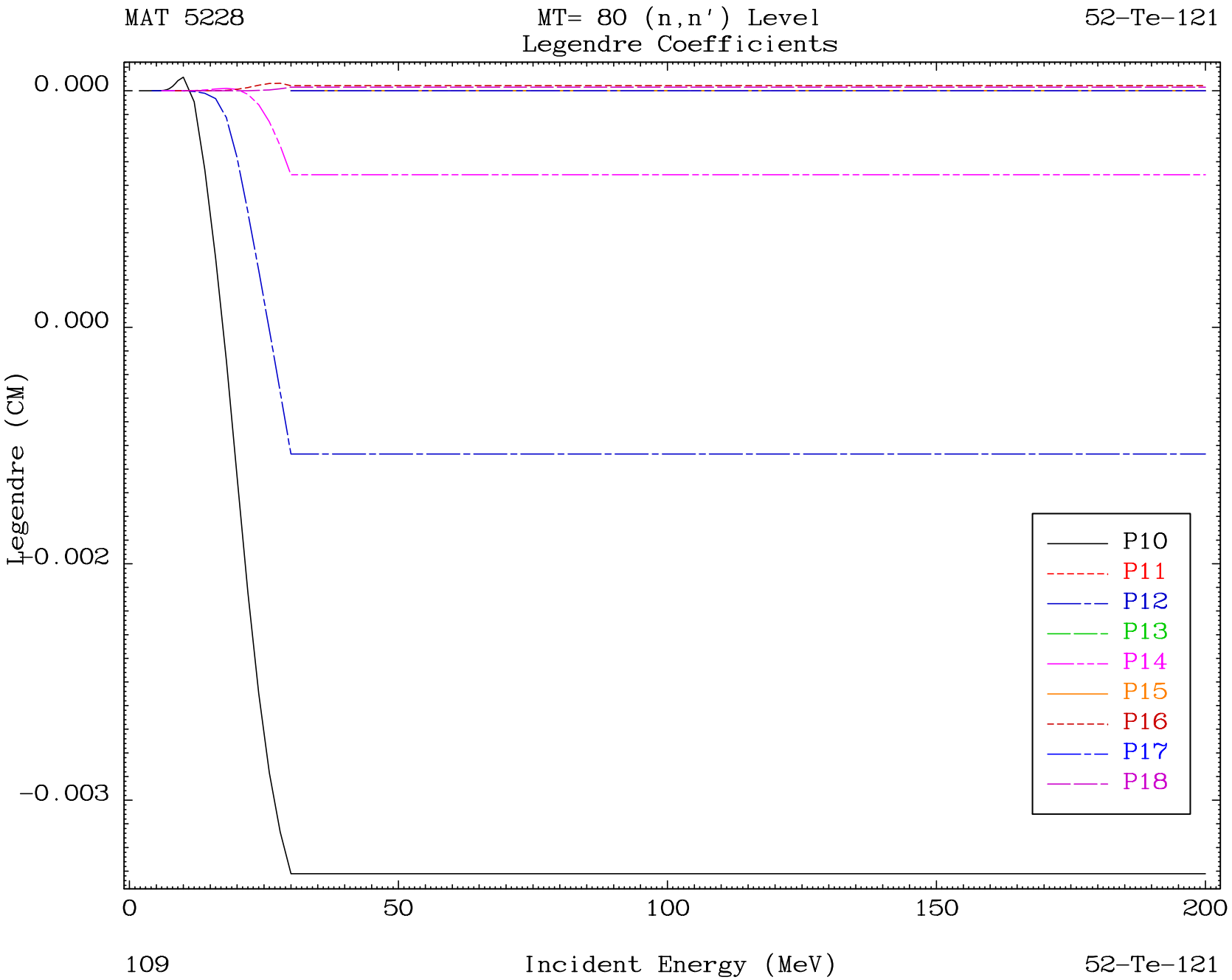

MAT 5228
MT= 78 (n,n') Level
Legendre Coefficients
52-Te-121
X10^-4
6
4
2
0
Legendre (CM)
P12
P13
P14
P15
P16
P17
P18
P19
P20
P21
P22
0
50
100
150
200
104
Incident Energy (MeV)
52-Te-121

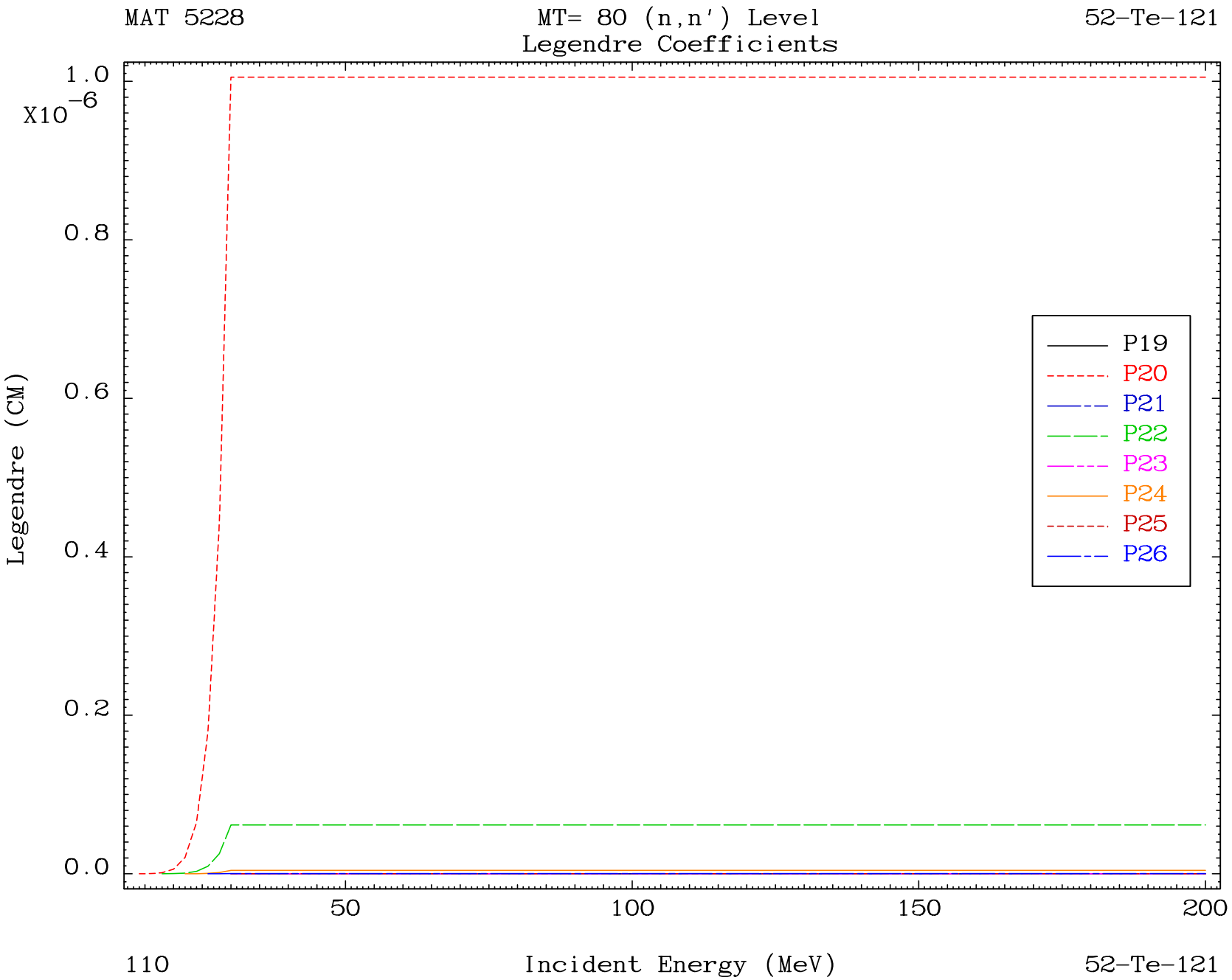

MAT 5228
MT= 79 (n,n') Level
Legendre Coefficients
52-Te-121
0.15
0.10
0.05
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
105
Incident Energy (MeV)
52-Te-121

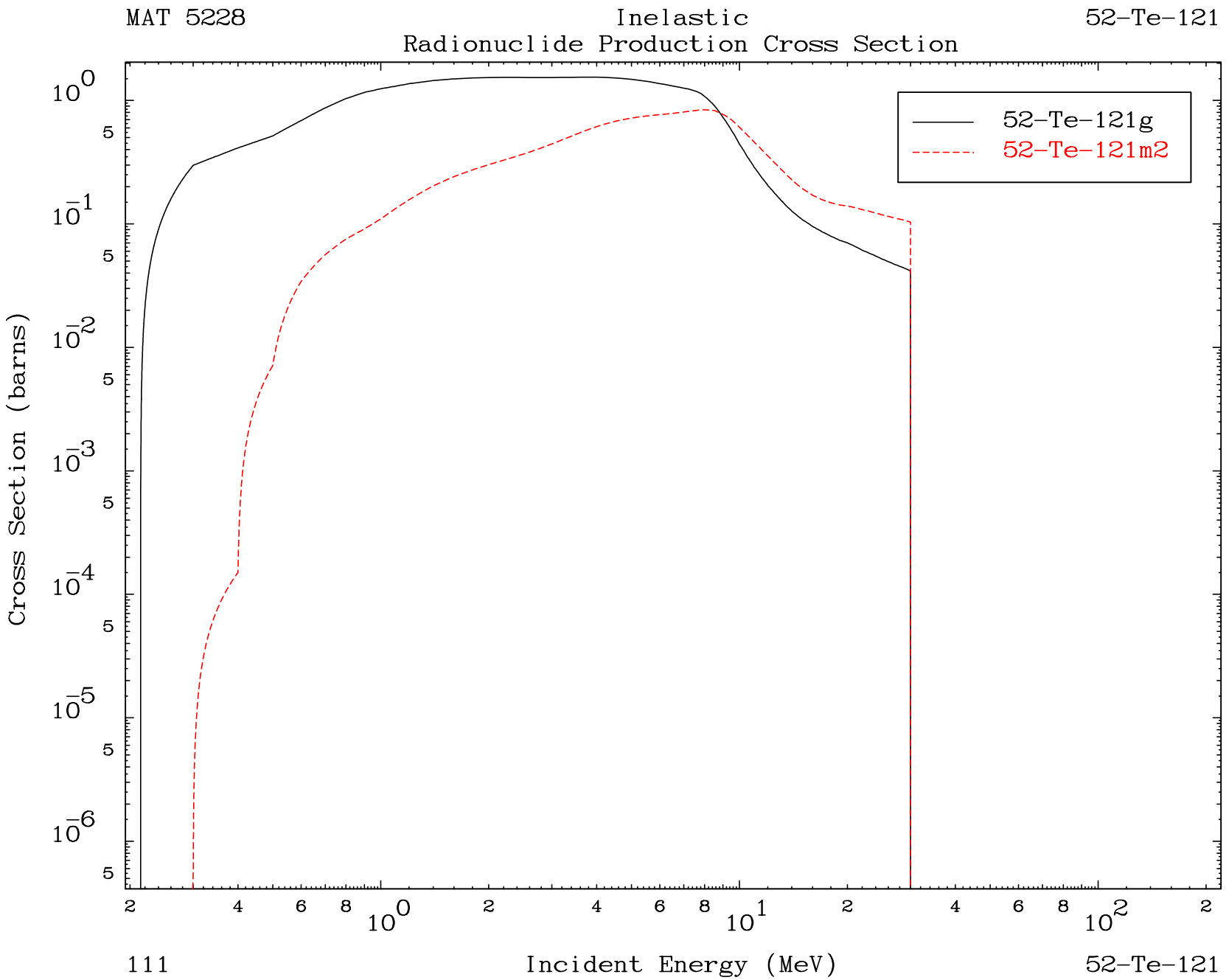

MAT 5228
MT= 79 (n,n') Level
Legendre Coefficients
52-Te-121
0.000
0.000
-0.002
-0.003
Legendre (CM)
0
50
100
150
200
106
Incident Energy (MeV)
52-Te-121
P10
P11
P12
P13
P14
P15
P16
P17
P18

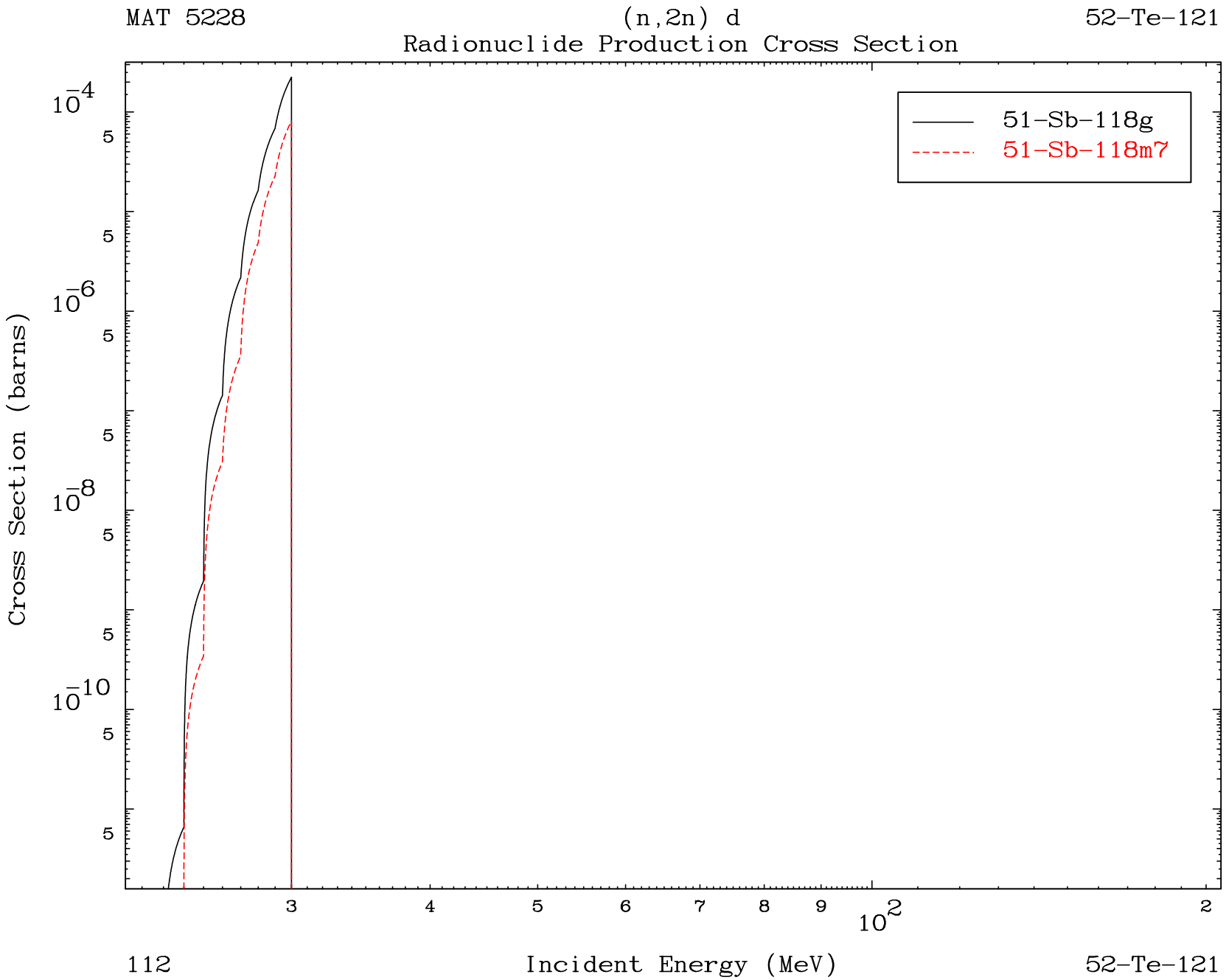

MAT 5228
MT= 79 (n,n') Level
Legendre Coefficients
52-Te-121
X10^-6
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
50
100
150
200
107
Incident Energy (MeV)
52-Te-121

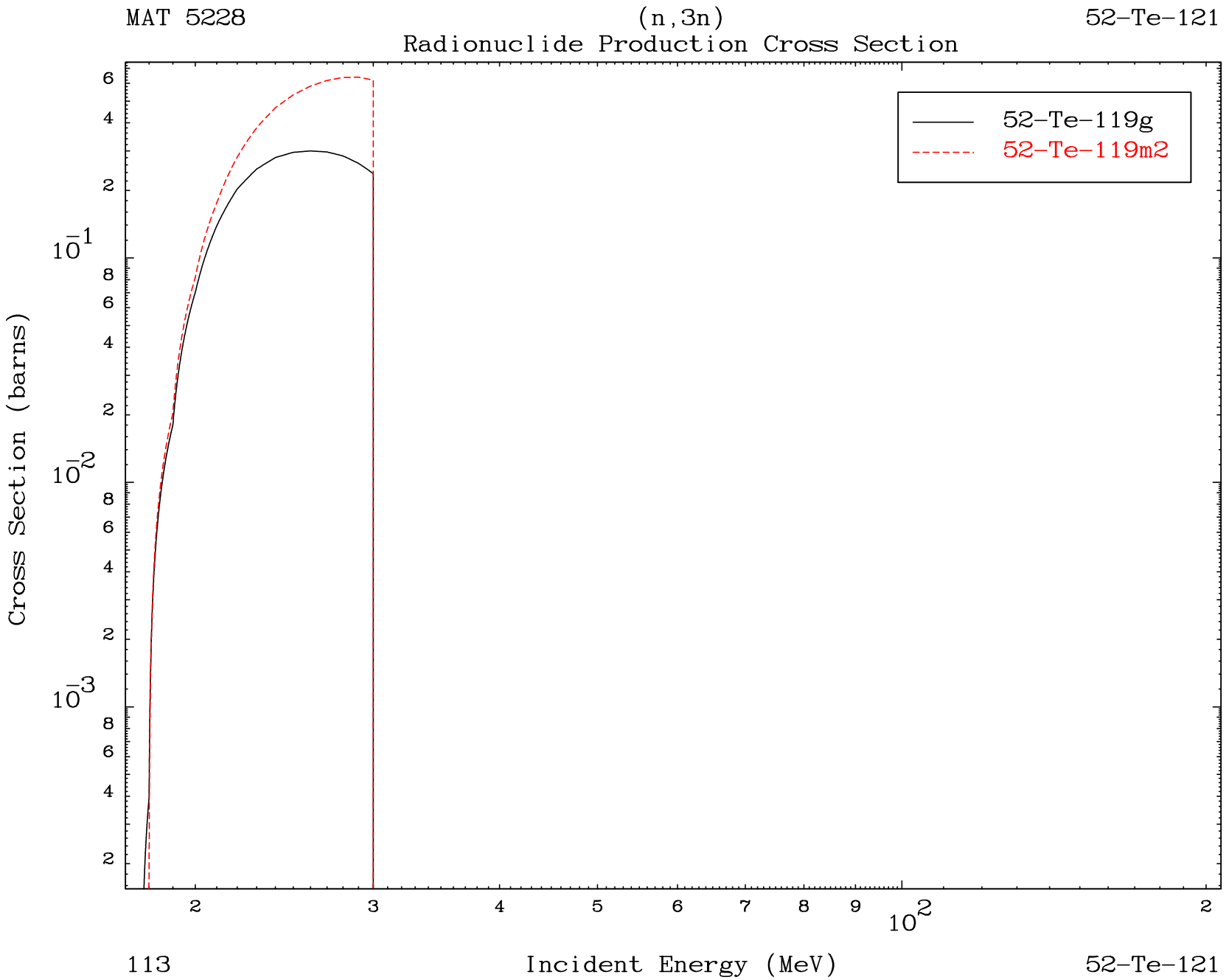

MAT 5228
MT= 80 (n,n') Level
Legendre Coefficients
52-Te-121
0.15
0.10
0.05
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
108
Incident Energy (MeV)
52-Te-121

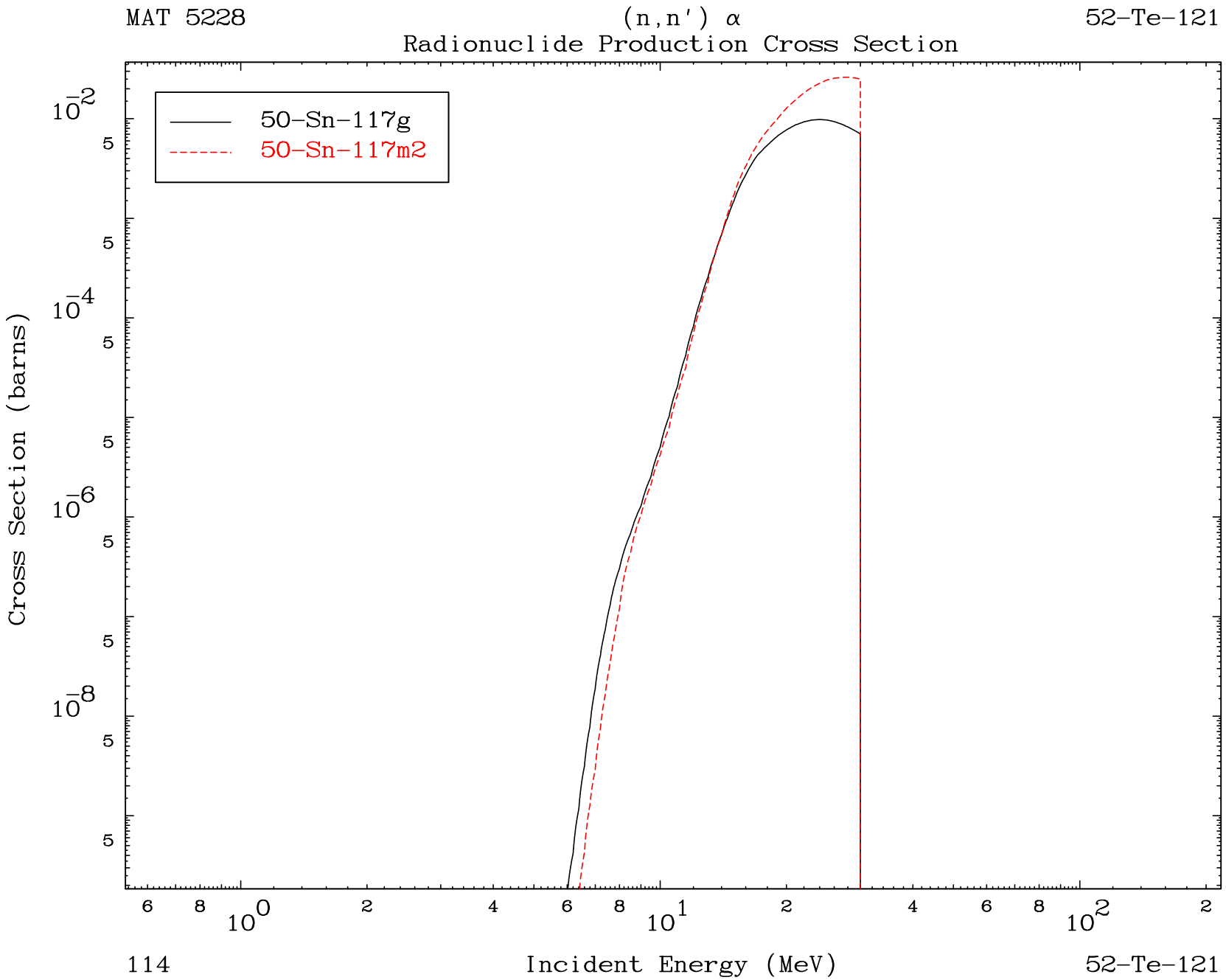

MAT 5228
MT= 80 (n,n') Level
Legendre Coefficients
52-Te-121
0.000
0.000
-0.002
-0.003
Legendre (CM)
0
50
100
150
200
109
Incident Energy (MeV)
52-Te-121
P10
P11
P12
P13
P14
P15
P16
P17
P18

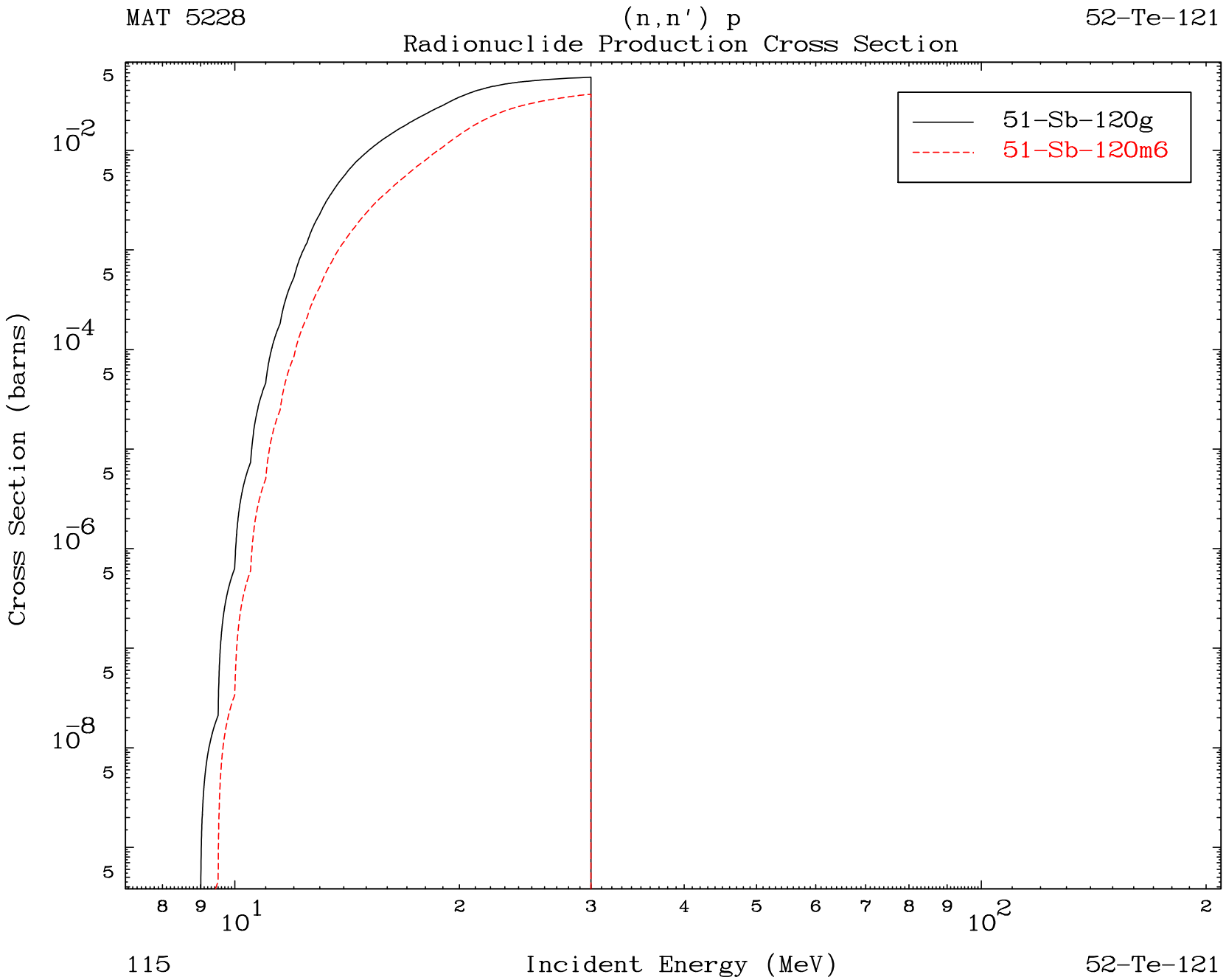

MAT 5228
MT= 80 (n,n') Level
Legendre Coefficients
52-Te-121
1.0
X10 −6
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
50
100
150
200
110
Incident Energy (MeV)
52-Te-121

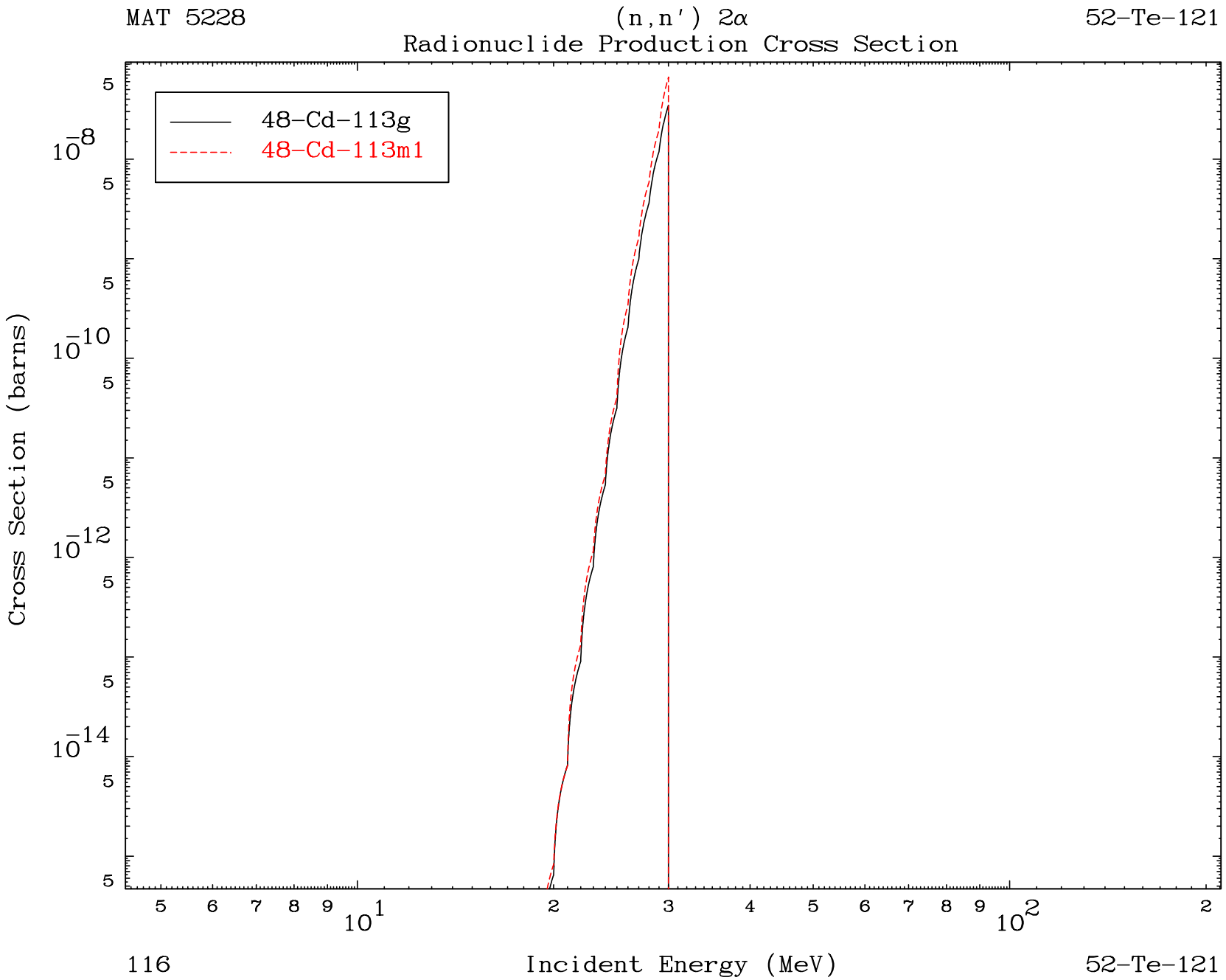

MAT 5228
Inelastic
52-Te-121
Radionuclide Production Cross Section
52-Te-121g
52-Te-121m2
Cross Section (barns)
Incident Energy (MeV)
111
52-Te-121

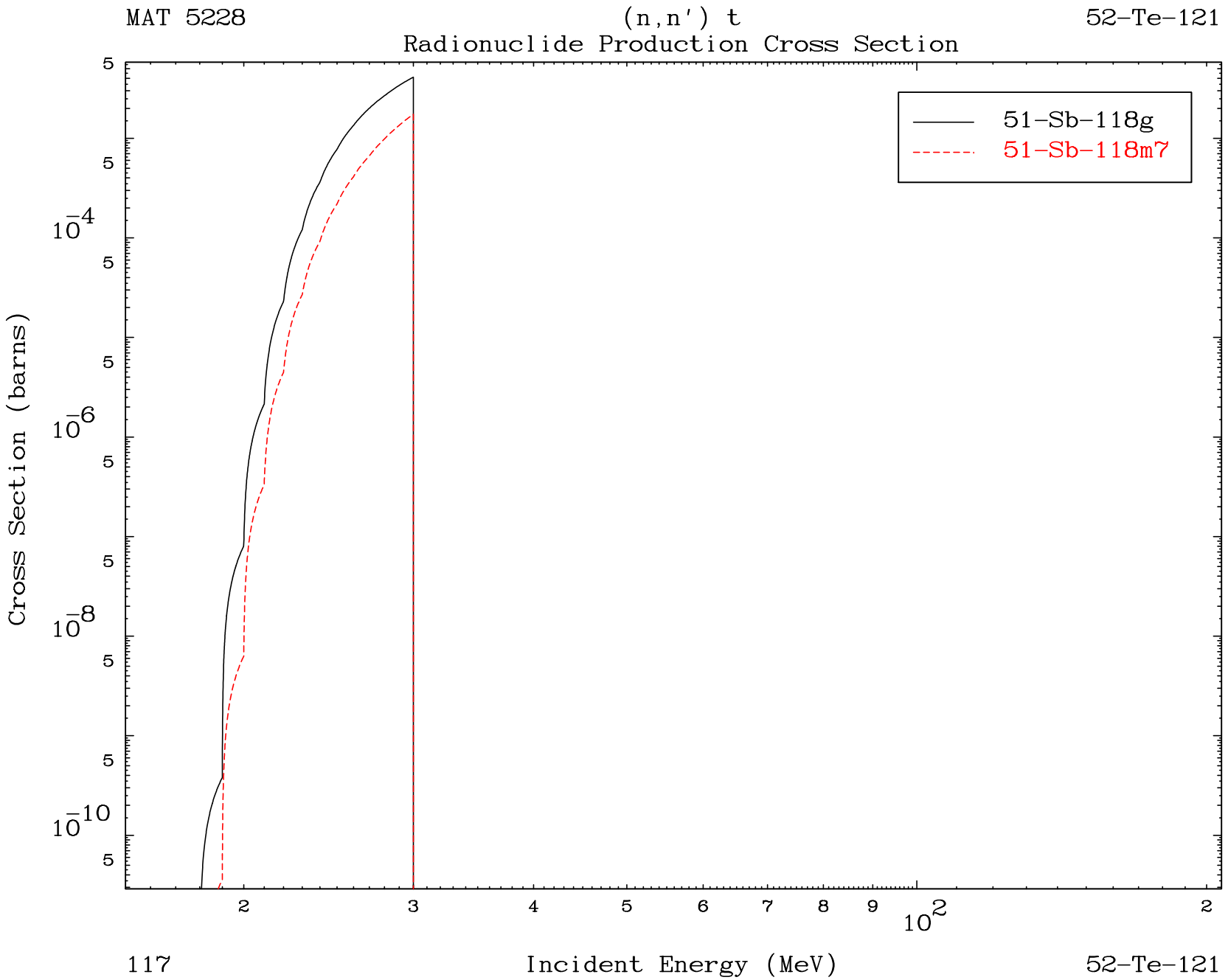

MAT 5228
(n,2n) d
52-Te-121
Radionuclide Production Cross Section
51-Sb-118g
51-Sb-118m7
Cross Section (barns)
10-4
10-6
10-8
10-10
5
3
4
5
6
7
8
9
10 2
2
112
Incident Energy (MeV)
52-Te-121

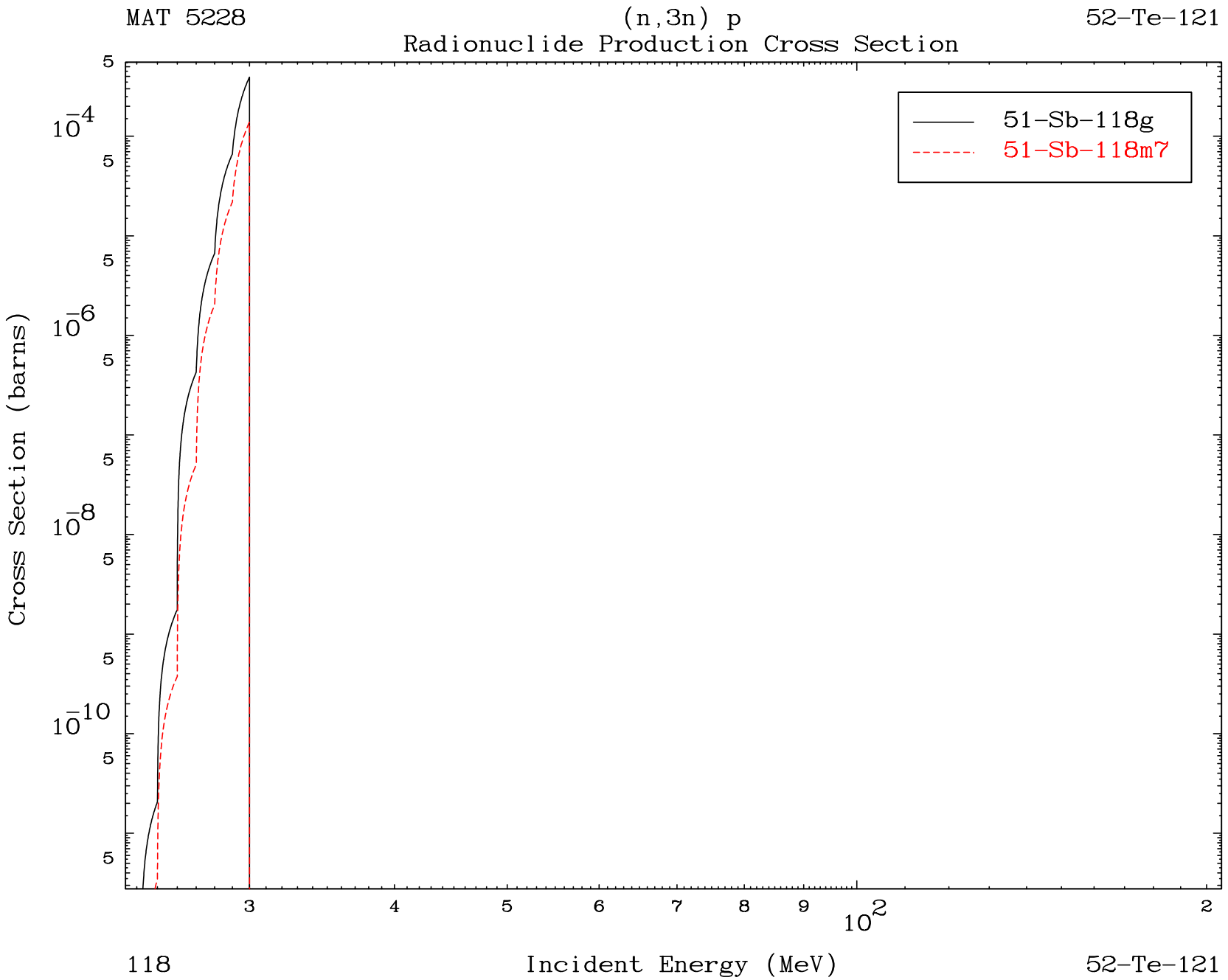

MAT 5228
(n,3n)
52-Te-121
Radionuclide Production Cross Section
52-Te-119g
52-Te-119m2
Cross Section (barns)
Incident Energy (MeV)
113
52-Te-121

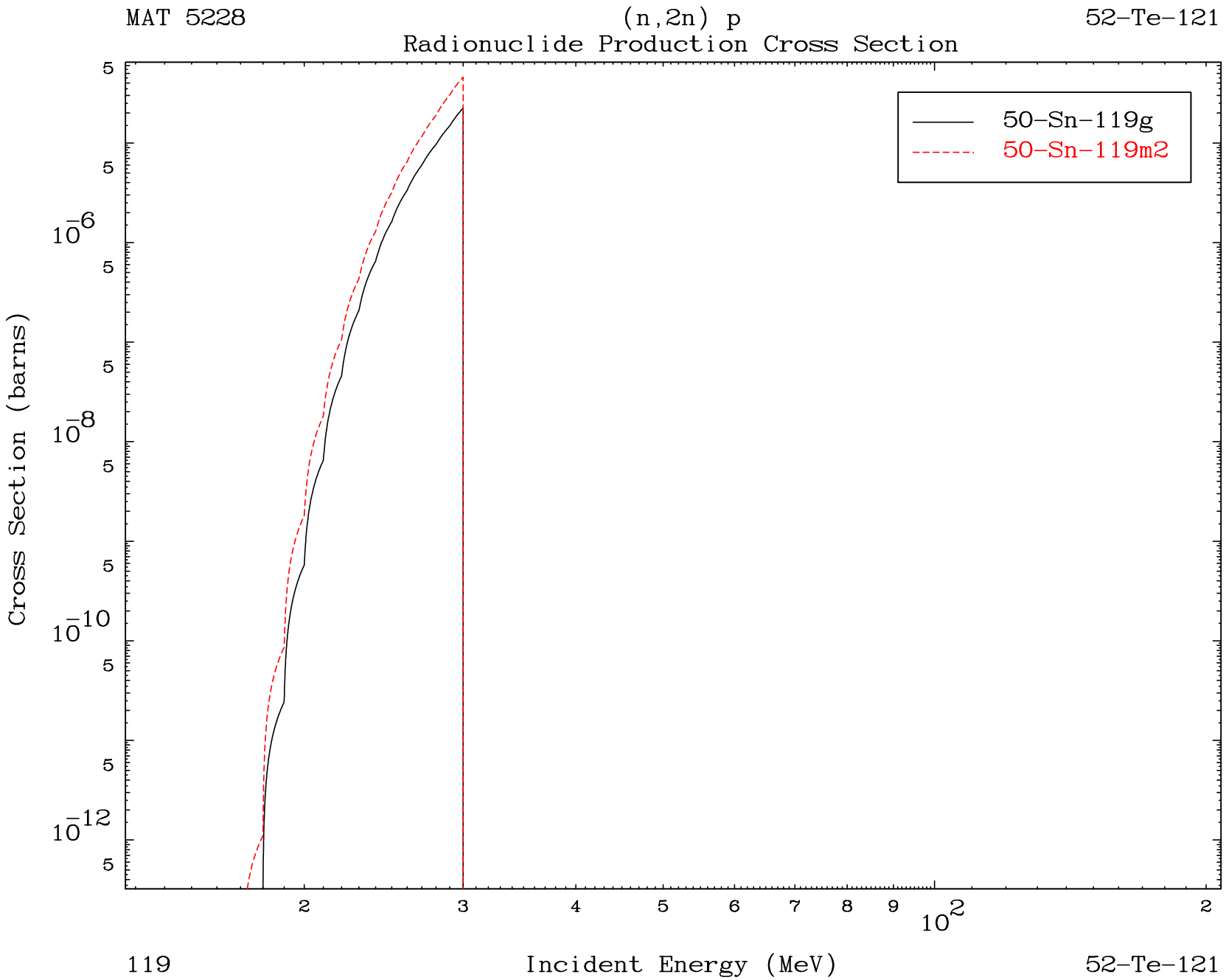

MAT 5228
(n,n') α
52-Te-121
Radionuclide Production Cross Section
50-Sn-117g
50-Sn-117m2
Cross Section (barns)
Incident Energy (MeV)
114
52-Te-121

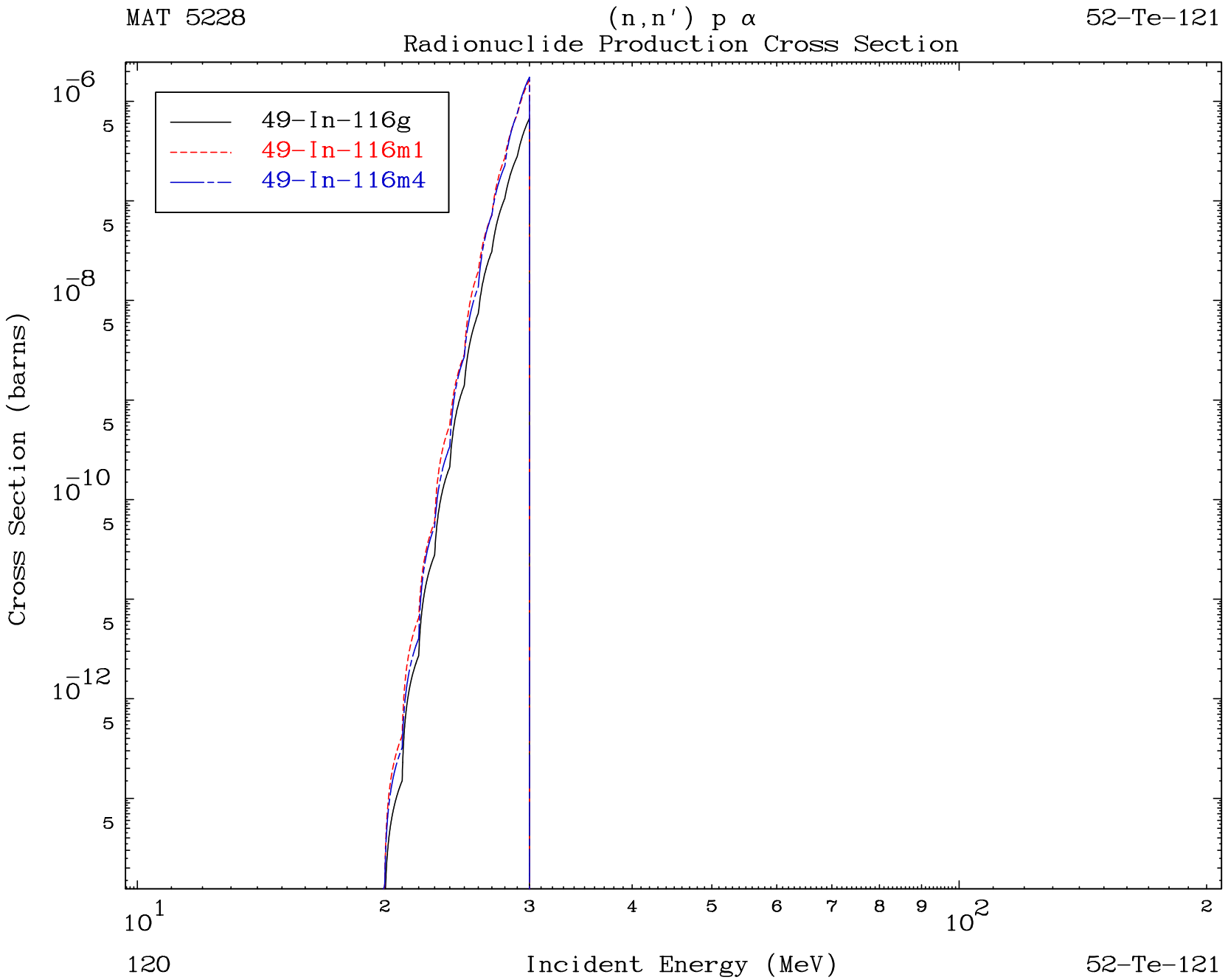

MAT 5228
(n,n') p
52-Te-121
Radionuclide Production Cross Section
51-Sb-120g
51-Sb-120m6
Cross Section (barns)
Incident Energy (MeV)
115
52-Te-121

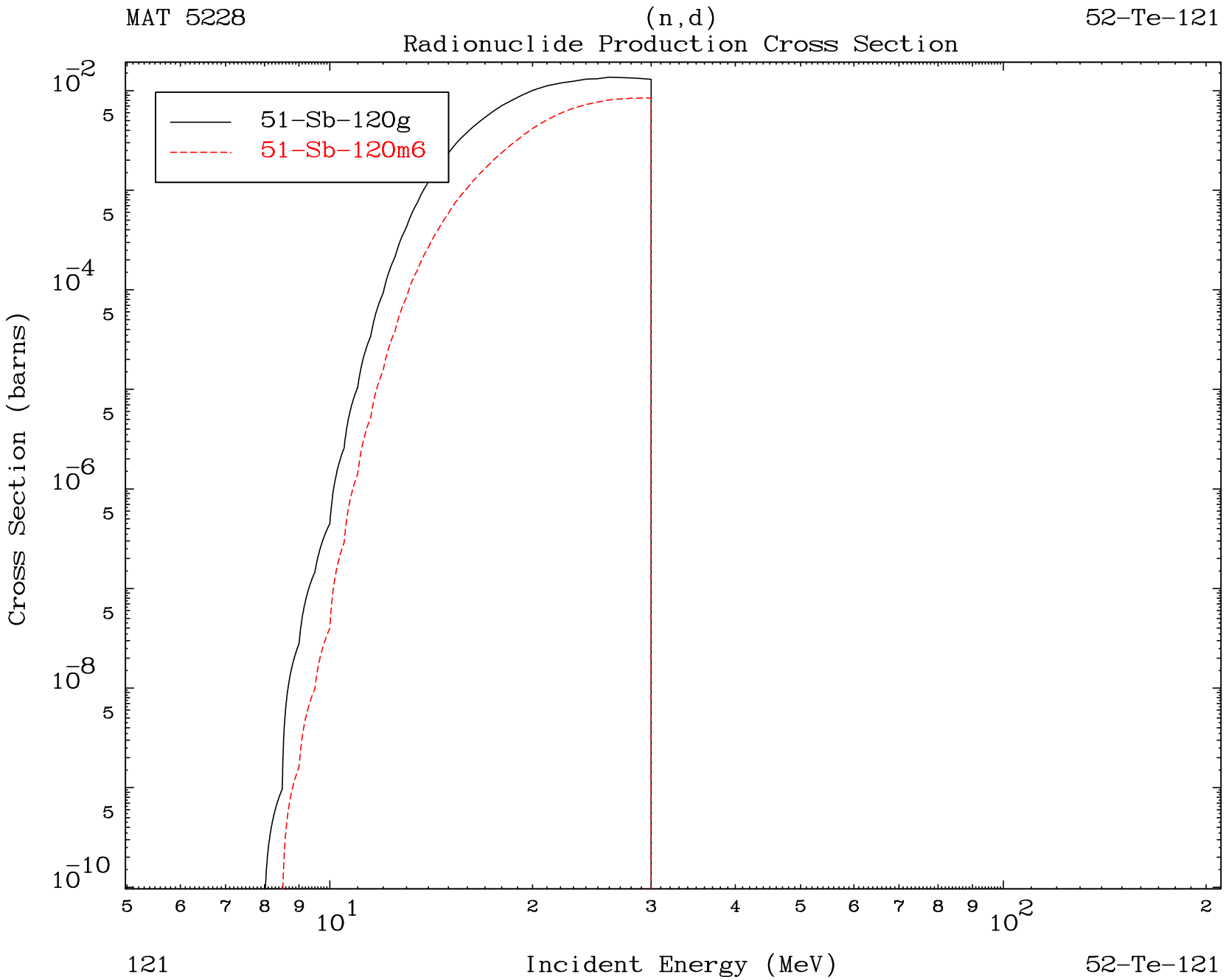

MAT 5228
(n,n') 2α
52-Te-121
Radionuclide Production Cross Section
48-Cd-113g
48-Cd-113m1
Cross Section (barns)
Incident Energy (MeV)
116
52-Te-121

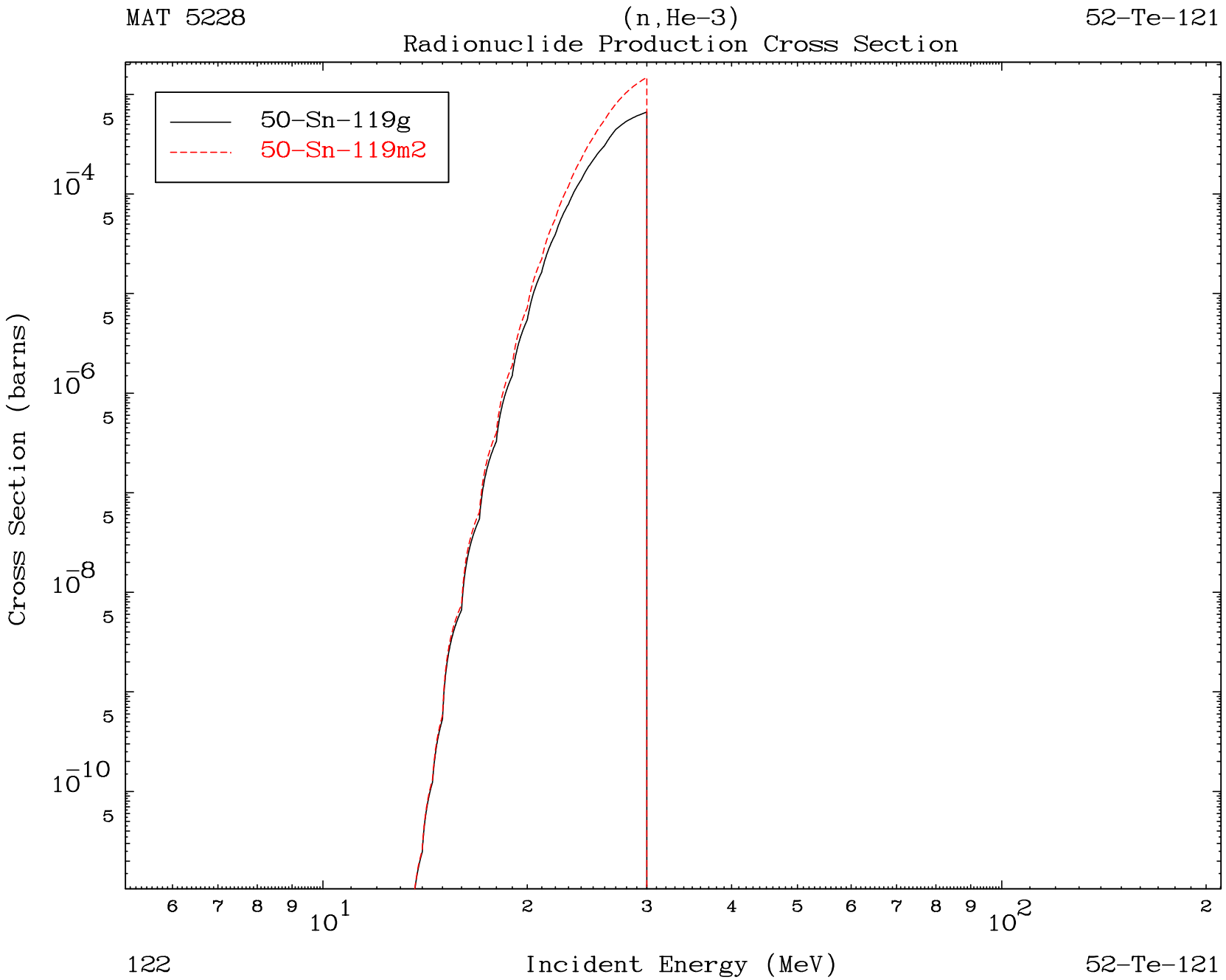

MAT 5228
(n,n') t
52-Te-121
Radionuclide Production Cross Section
51-Sb-118g
51-Sb-118m7
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
2
3
4
5
6
7
8
9
10^2
2
117
Incident Energy (MeV)
52-Te-121

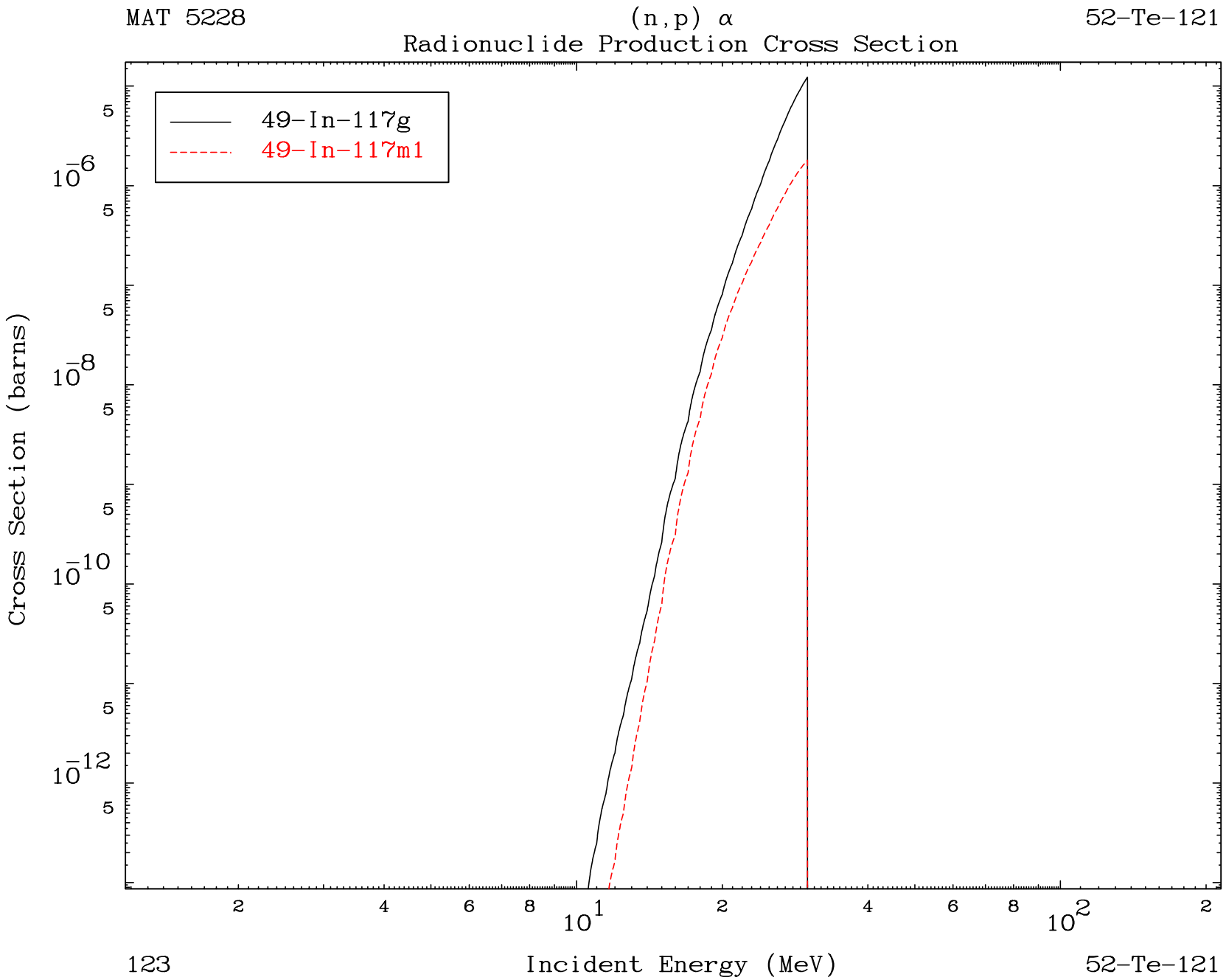

MAT 5228
(n,3n) p
52-Te-121
Radionuclide Production Cross Section
51-Sb-118g
51-Sb-118m7
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
3
4
5
6
7
8
9
10^2
2
118
Incident Energy (MeV)
52-Te-121

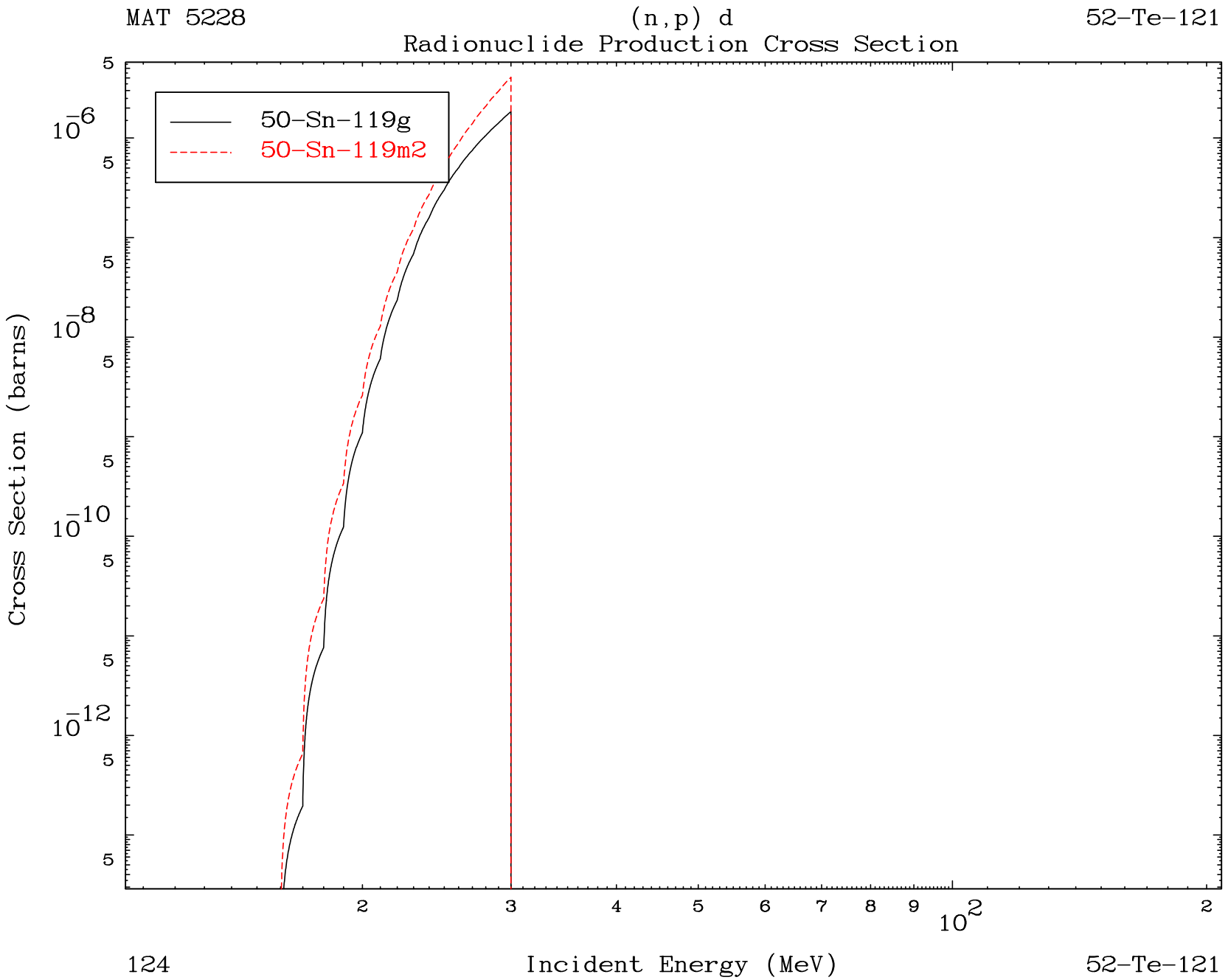

MAT 5228
(n,2n) p
52-Te-121
Radionuclide Production Cross Section
50-Sn-119g
50-Sn-119m2
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
2
3
4
5
6
7
8
9
10^2
119
Incident Energy (MeV)
52-Te-121

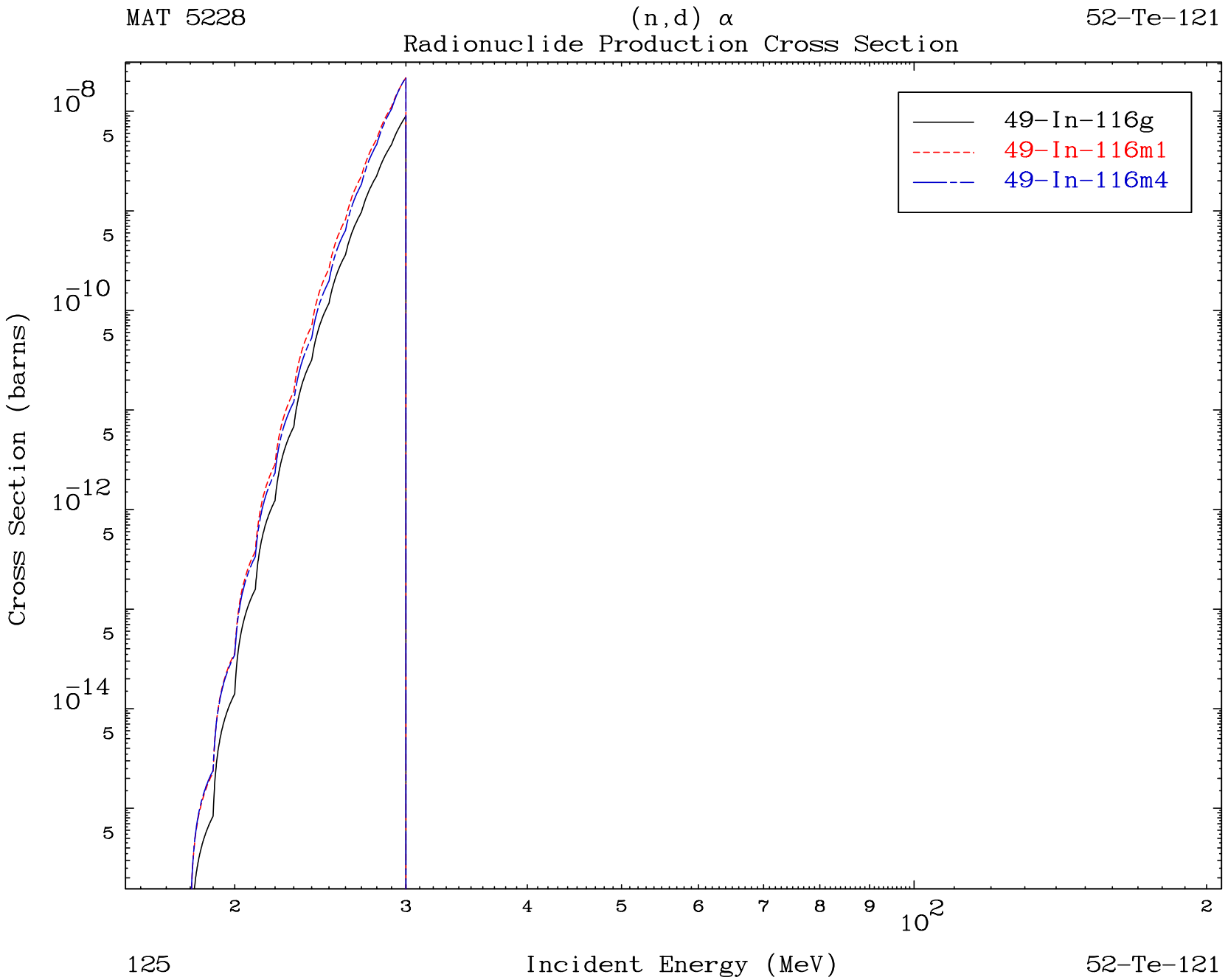

MAT 5228
(n,n') p α
52-Te-121
Radionuclide Production Cross Section
49-In-116g
49-In-116m1
49-In-116m4
Cross Section (barns)
Incident Energy (MeV)
120
52-Te-121


MAT 5228
(n,d)
52-Te-121
Radionuclide Production Cross Section
51-Sb-120g
51-Sb-120m6
Cross Section (barns)
Incident Energy (MeV)
121
52-Te-121


MAT 5228
(n,He-3)
52-Te-121
Radionuclide Production Cross Section
50-Sn-119g
50-Sn-119m2
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^1
10^2
Incident Energy (MeV)
122
52-Te-121


MAT 5228
(n,p) α
52-Te-121
Radionuclide Production Cross Section
49-In-117g
49-In-117m1
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
2
4
6
8
10^1
10^2
123
Incident Energy (MeV)
52-Te-121


MAT 5228
(n,p) d
52-Te-121
Radionuclide Production Cross Section
50-Sn-119g
50-Sn-119m2
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
2
3
4
5
6
7
8
9
10^2
2
124
Incident Energy (MeV)
52-Te-121


MAT 5228
(n,d) α
52-Te-121
Radionuclide Production Cross Section
49-In-116g
49-In-116m1
49-In-116m4
Cross Section (barns)
10-8
10-10
10-12
10-14
5
2
3
4
5
6
7
8
9
10 2
2
125
Incident Energy (MeV)
52-Te-121