Program EVALPLOT
(Version 2018-1)
by
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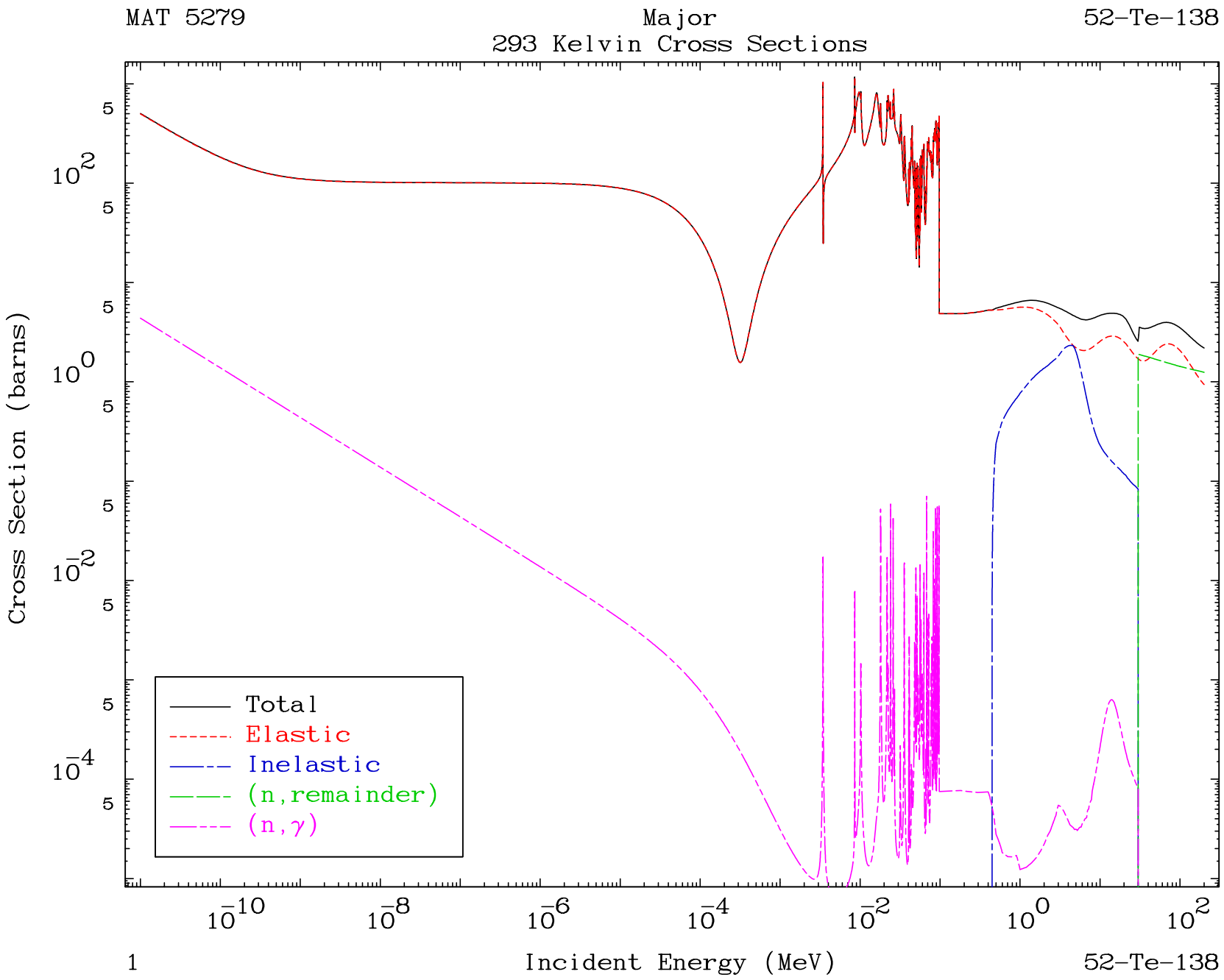
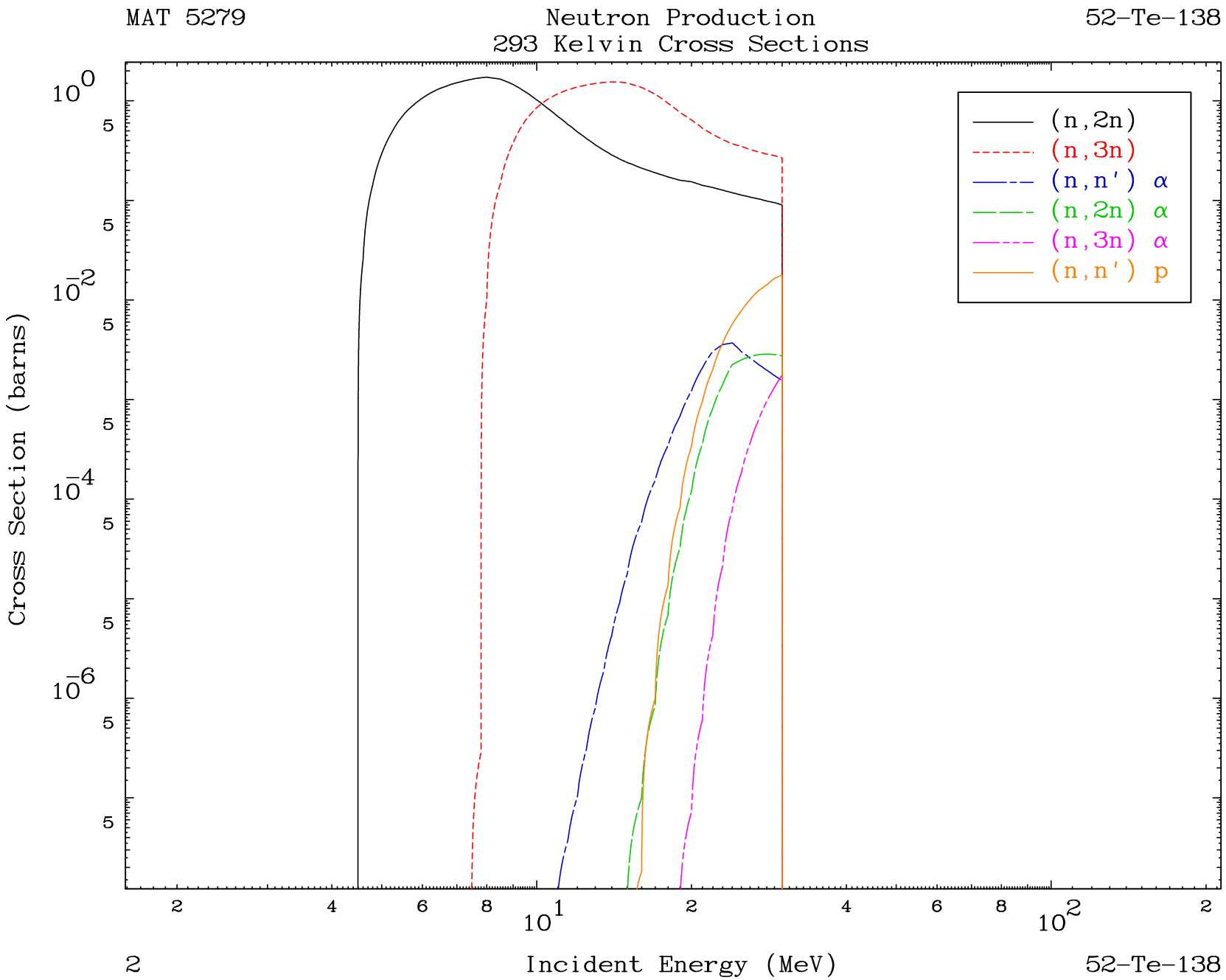
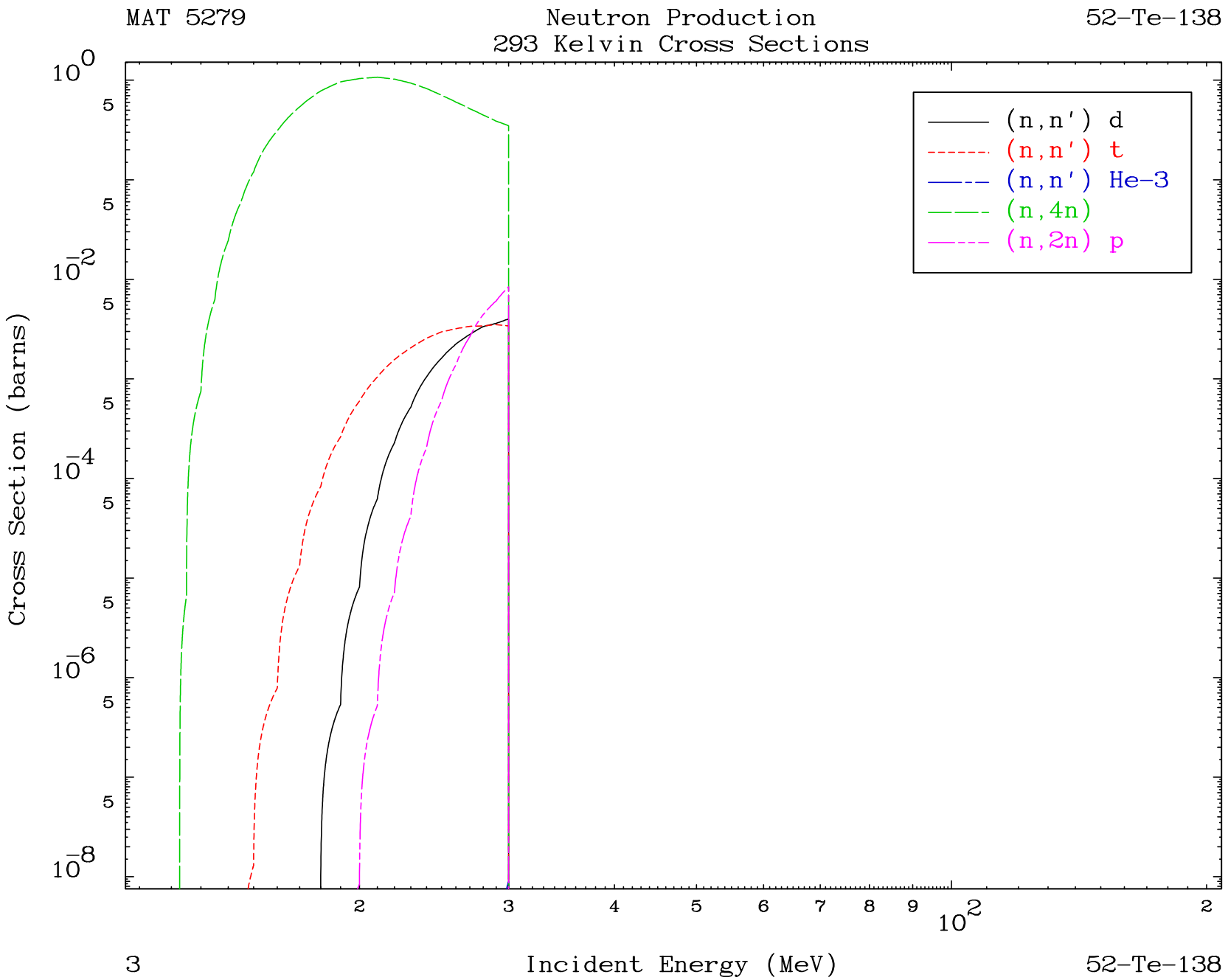
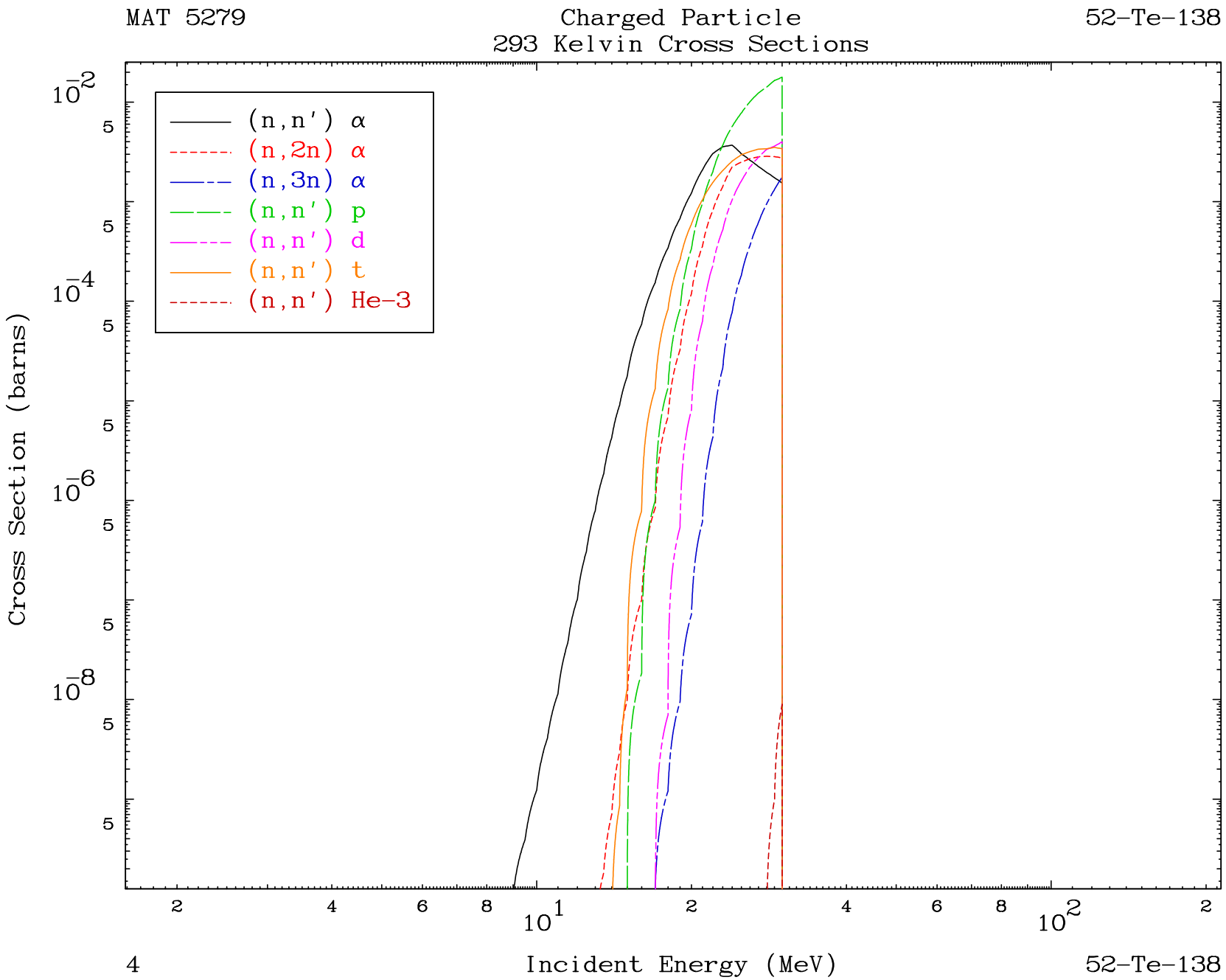
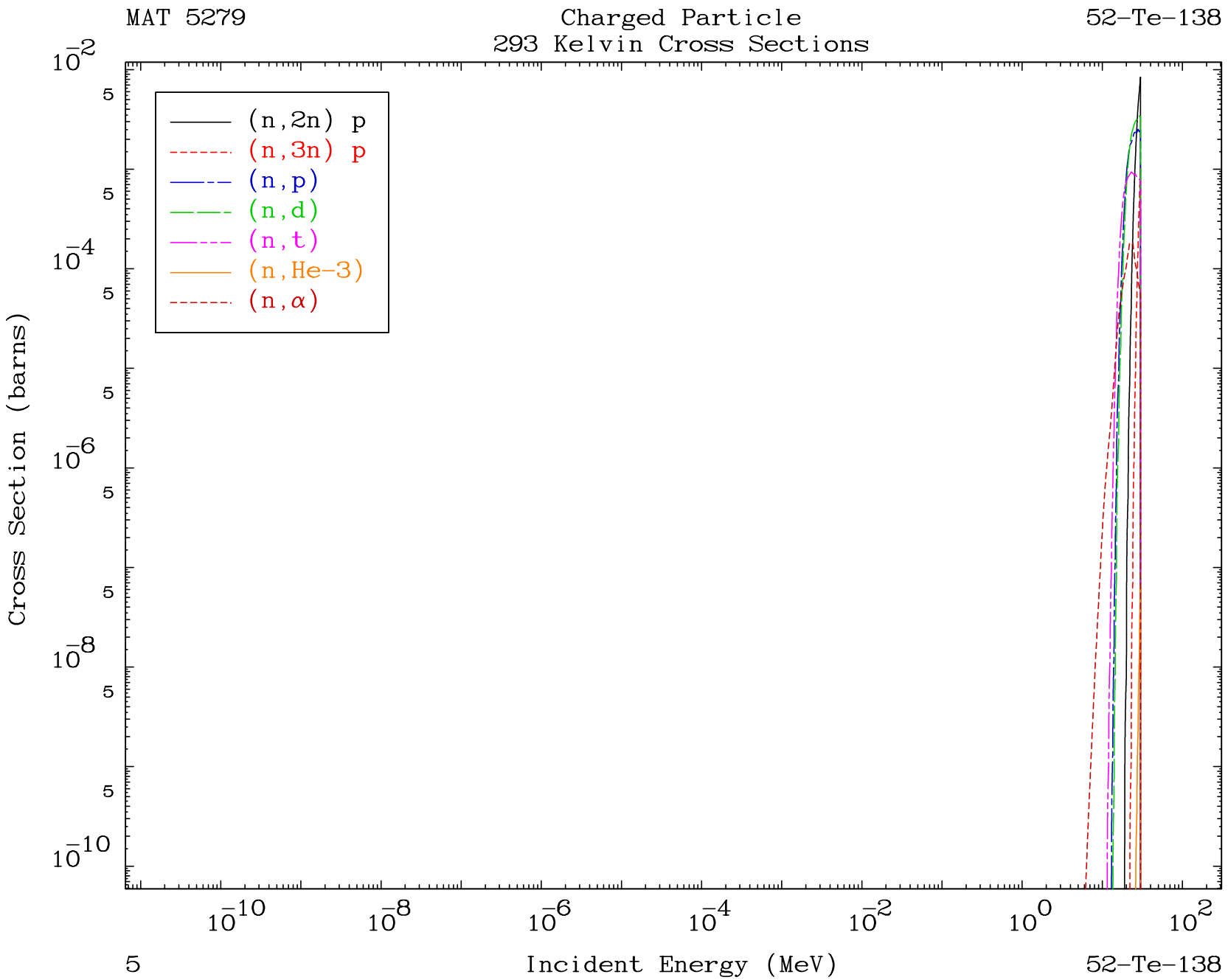
Press Mouse Button to Start

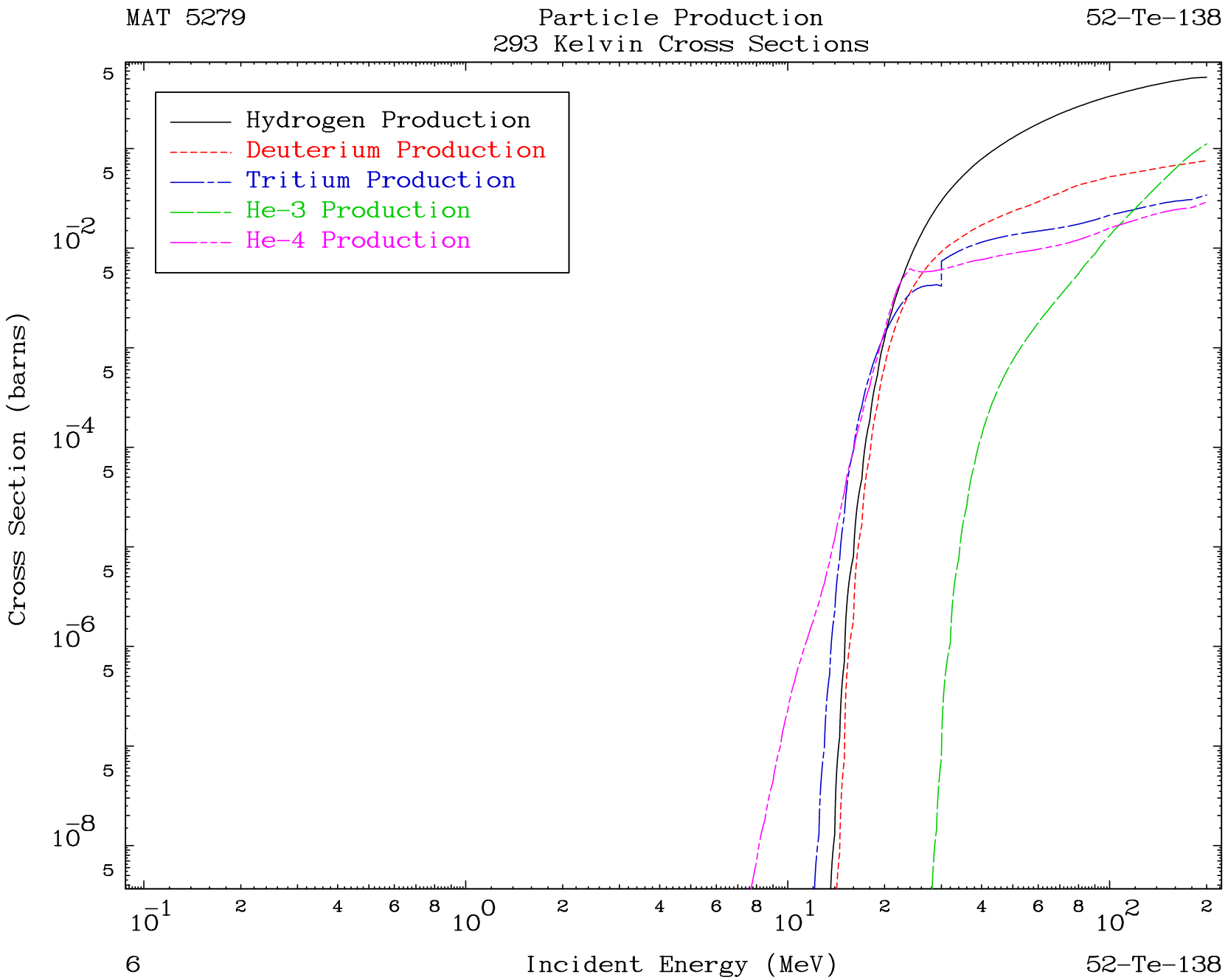

MAT 5279
Major
52-Te-138
293 Kelvin Cross Sections
Cross Section (barns)
Incident Energy (MeV)
Total
Elastic
Inelastic
(n,remainder)
(n,γ)
1
52-Te-138

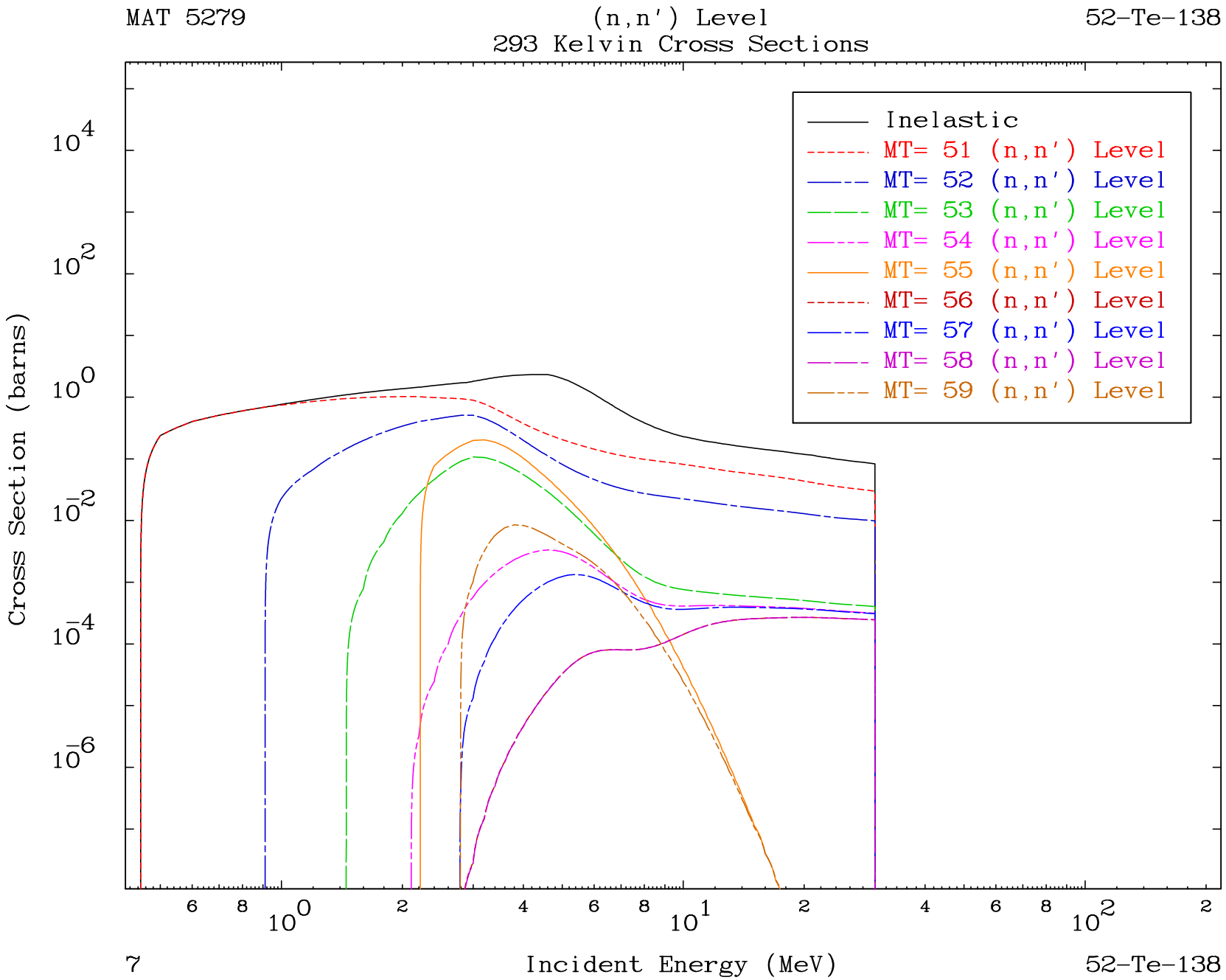

MAT 5279
Neutron Production
293 Kelvin Cross Sections
52-Te-138
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
Cross Section (barns)
Incident Energy (MeV)
52-Te-138

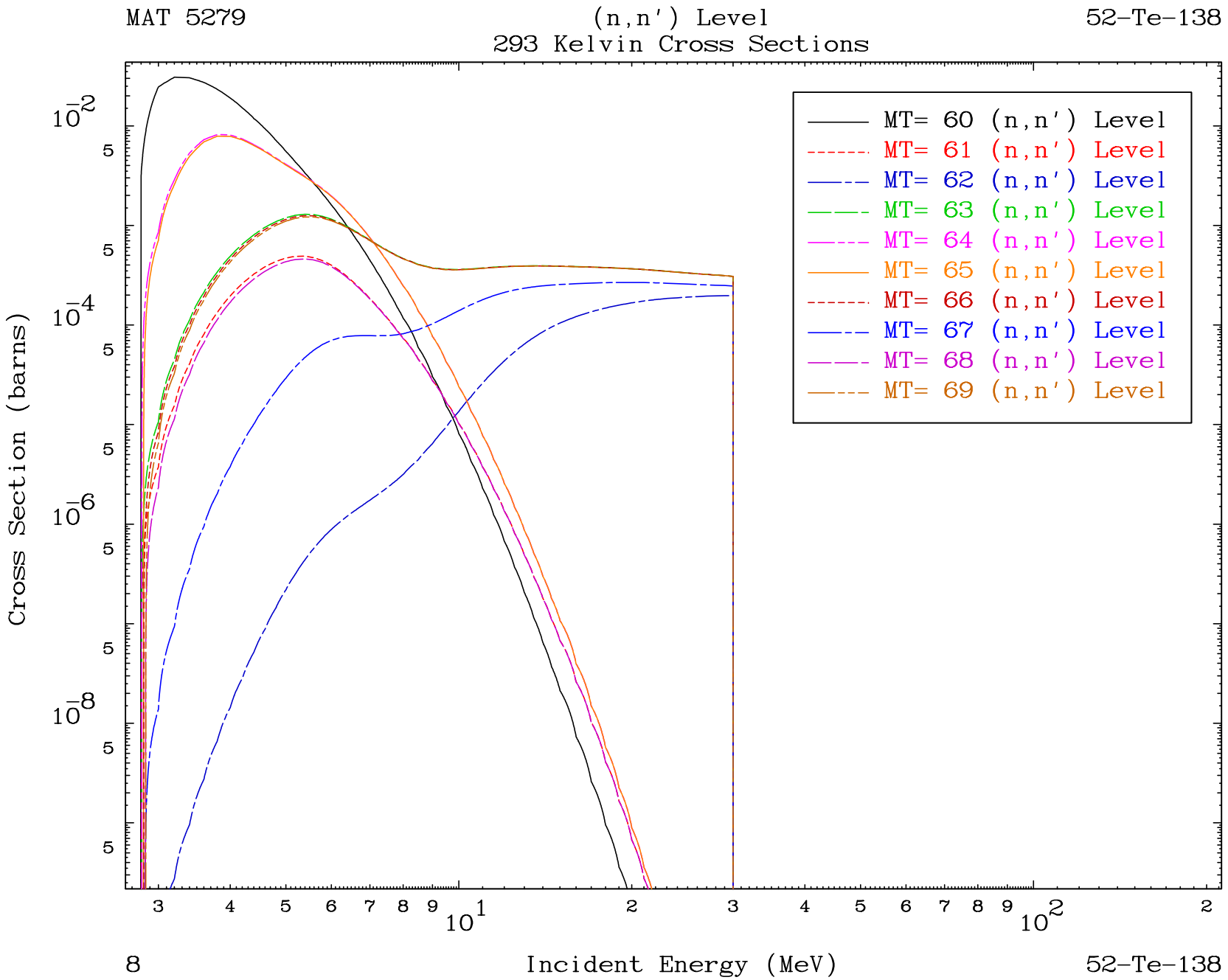

MAT 5279
Neutron Production
293 Kelvin Cross Sections
52-Te-138
(n,n') d
(n,n') t
(n,n') He-3
(n,4n)
(n,2n) p
Cross Section (barns)
Incident Energy (MeV)
3
52-Te-138

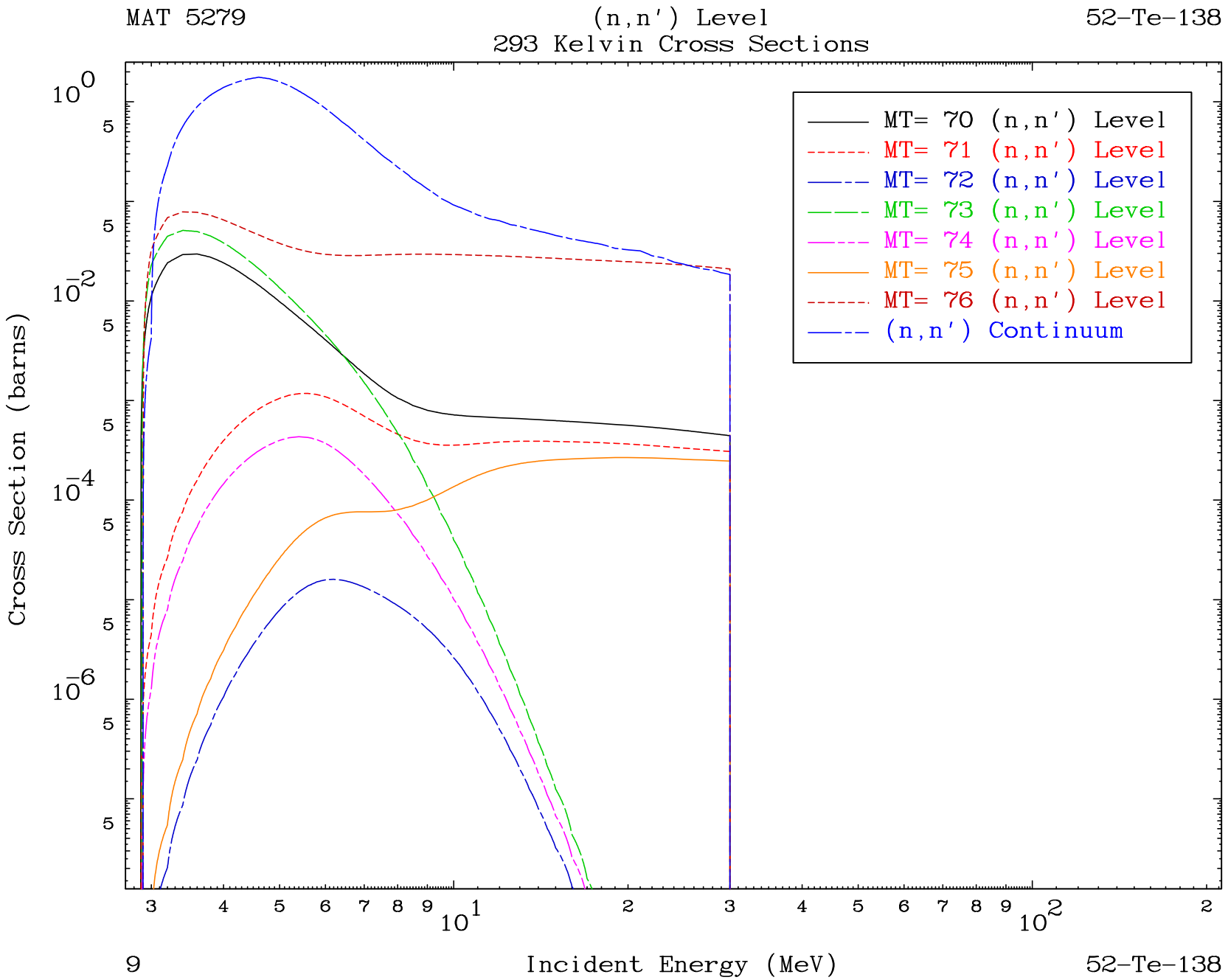

MAT 5279
Charged Particle
293 Kelvin Cross Sections
52-Te-138
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') d
(n,n') t
(n,n') He-3
Cross Section (barns)
Incident Energy (MeV)
52-Te-138
4

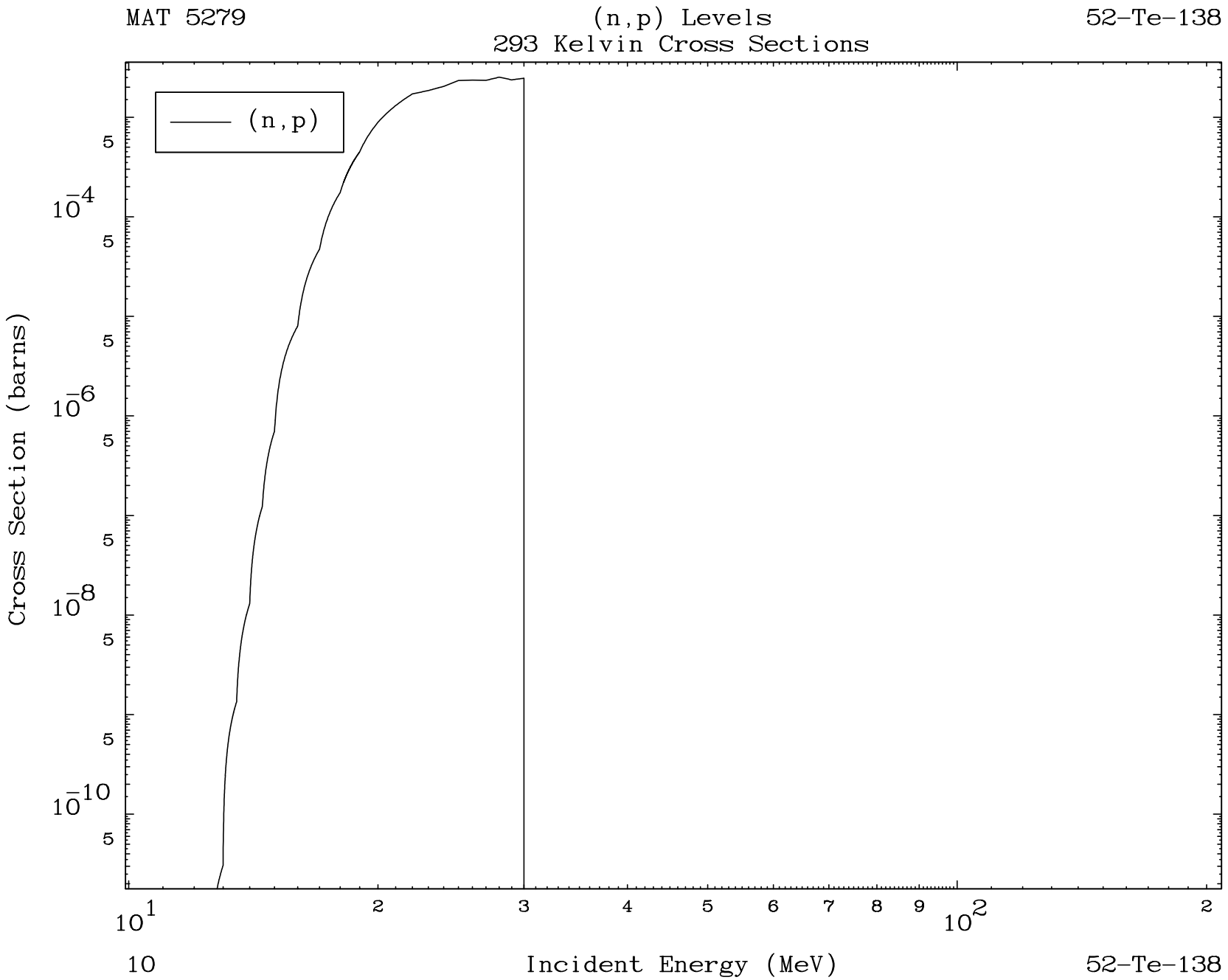

MAT 5279
Charged Particle
52-Te-138
293 Kelvin Cross Sections
(n,2n) p
(n,3n) p
(n,p)
(n,d)
(n,t)
(n,He-3)
(n,α)
Cross Section (barns)
Incident Energy (MeV)
52-Te-138
5

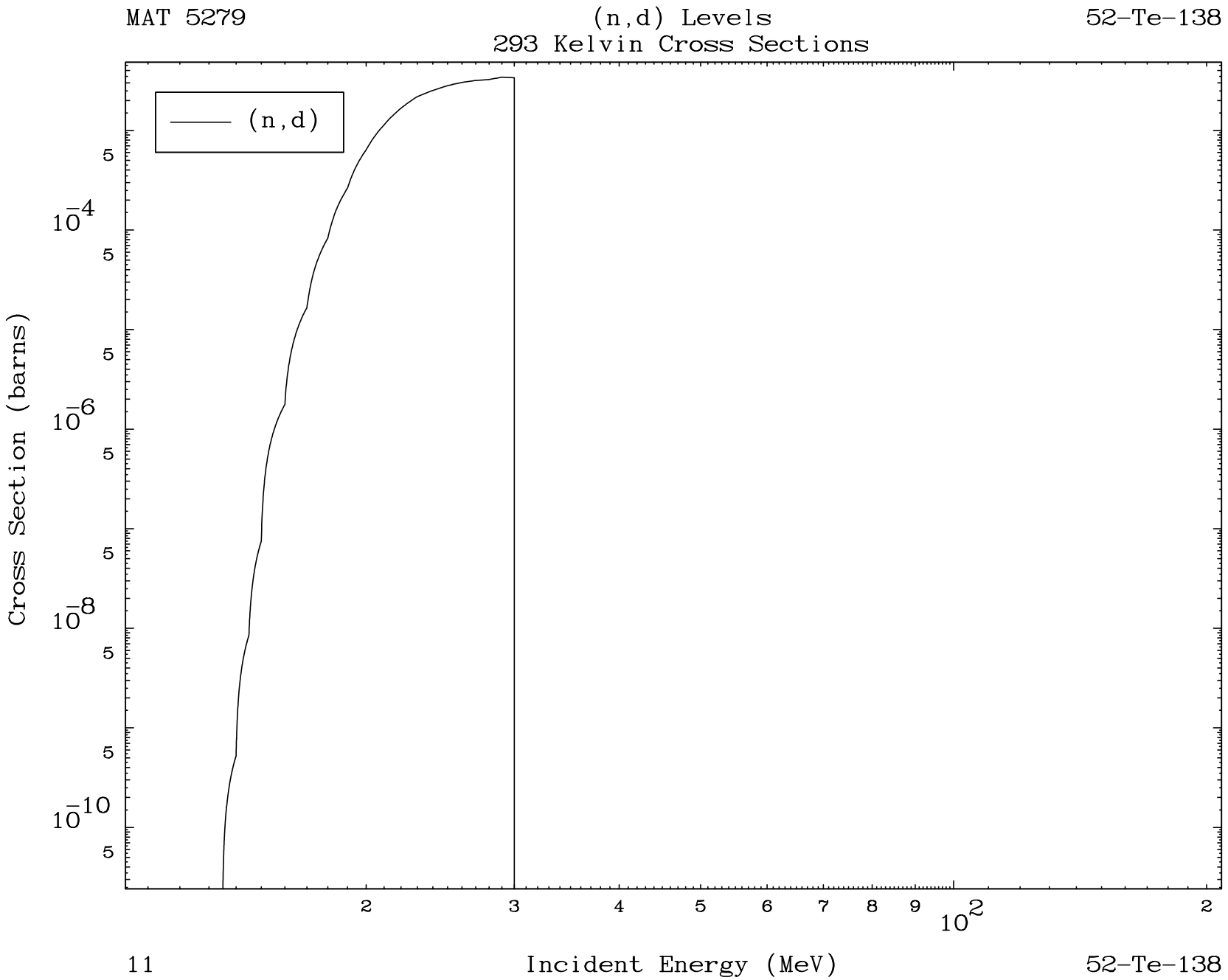

MAT 5279
Particle Production
293 Kelvin Cross Sections
52-Te-138
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production
Cross Section (barns)
Incident Energy (MeV)
52-Te-138
6

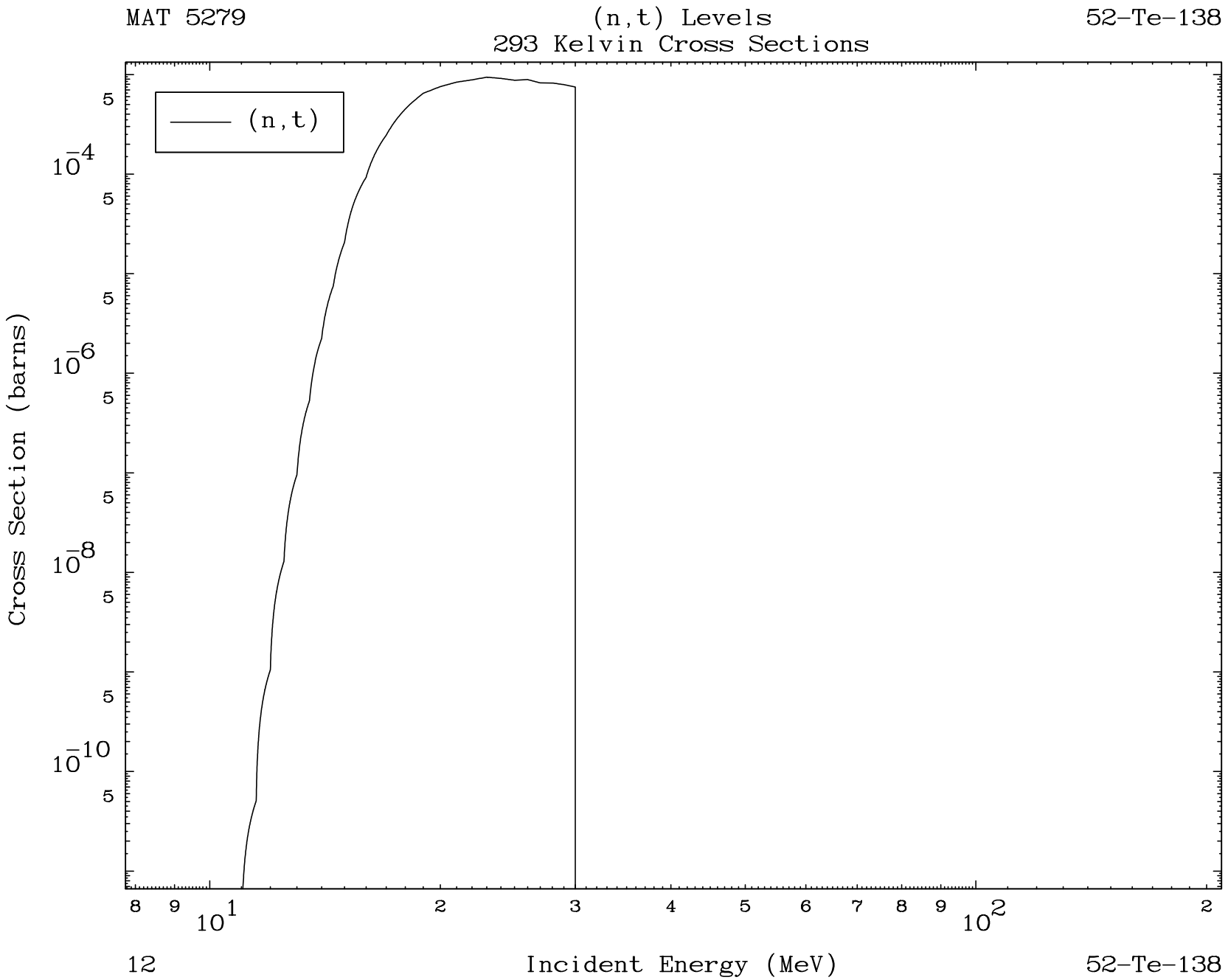

MAT 5279
(n,n') Level
293 Kelvin Cross Sections
52-Te-138
Inelastic
MT= 51 (n,n') Level
MT= 52 (n,n') Level
MT= 53 (n,n') Level
MT= 54 (n,n') Level
MT= 55 (n,n') Level
MT= 56 (n,n') Level
MT= 57 (n,n') Level
MT= 58 (n,n') Level
MT= 59 (n,n') Level
Cross Section (barns)
Incident Energy (MeV)
7
52-Te-138

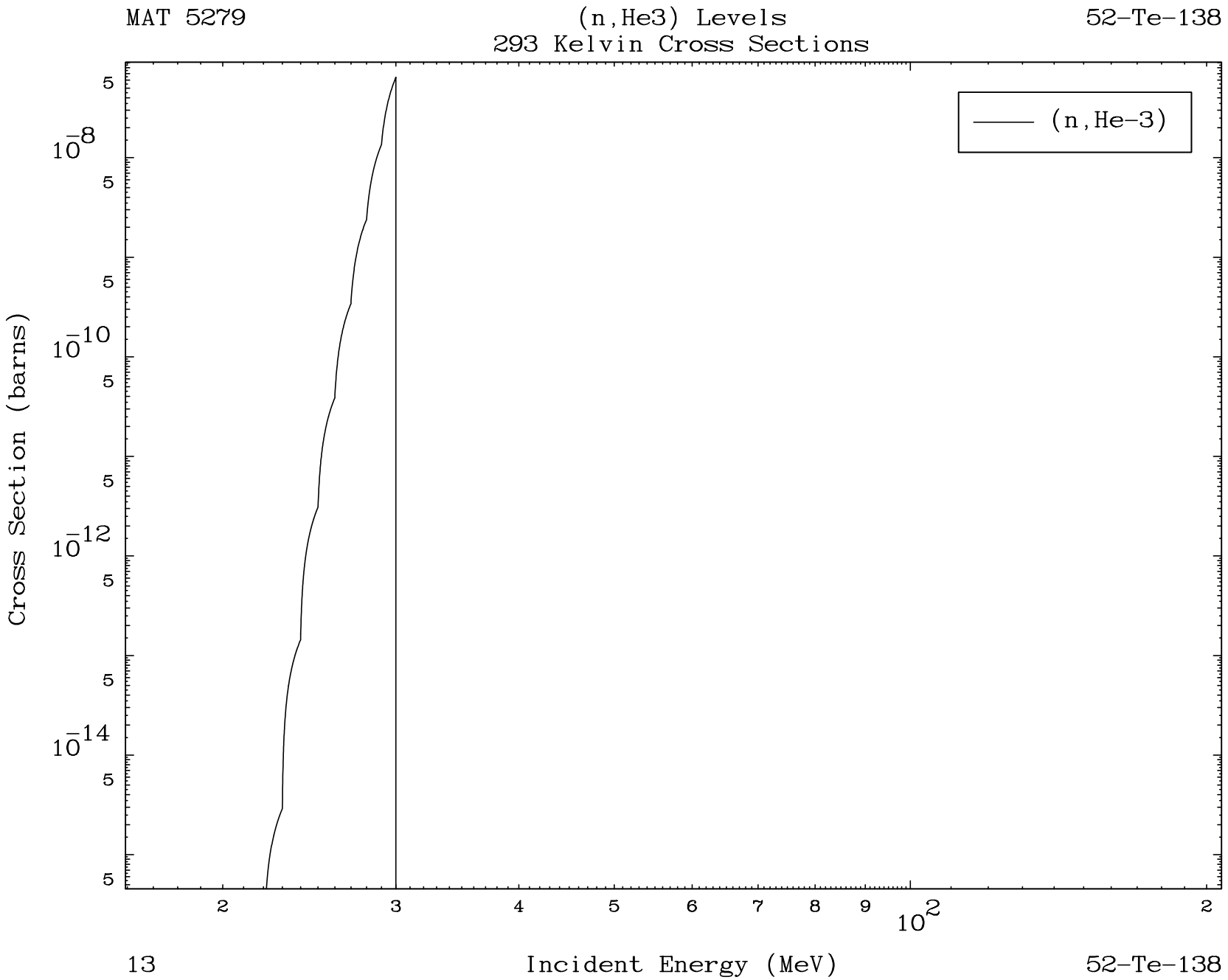

MAT 5279
(n,n') Level
293 Kelvin Cross Sections
52-Te-138
MT= 60 (n,n') Level
MT= 61 (n,n') Level
MT= 62 (n,n') Level
MT= 63 (n,n') Level
MT= 64 (n,n') Level
MT= 65 (n,n') Level
MT= 66 (n,n') Level
MT= 67 (n,n') Level
MT= 68 (n,n') Level
MT= 69 (n,n') Level
Cross Section (barns)
Incident Energy (MeV)
8
52-Te-138

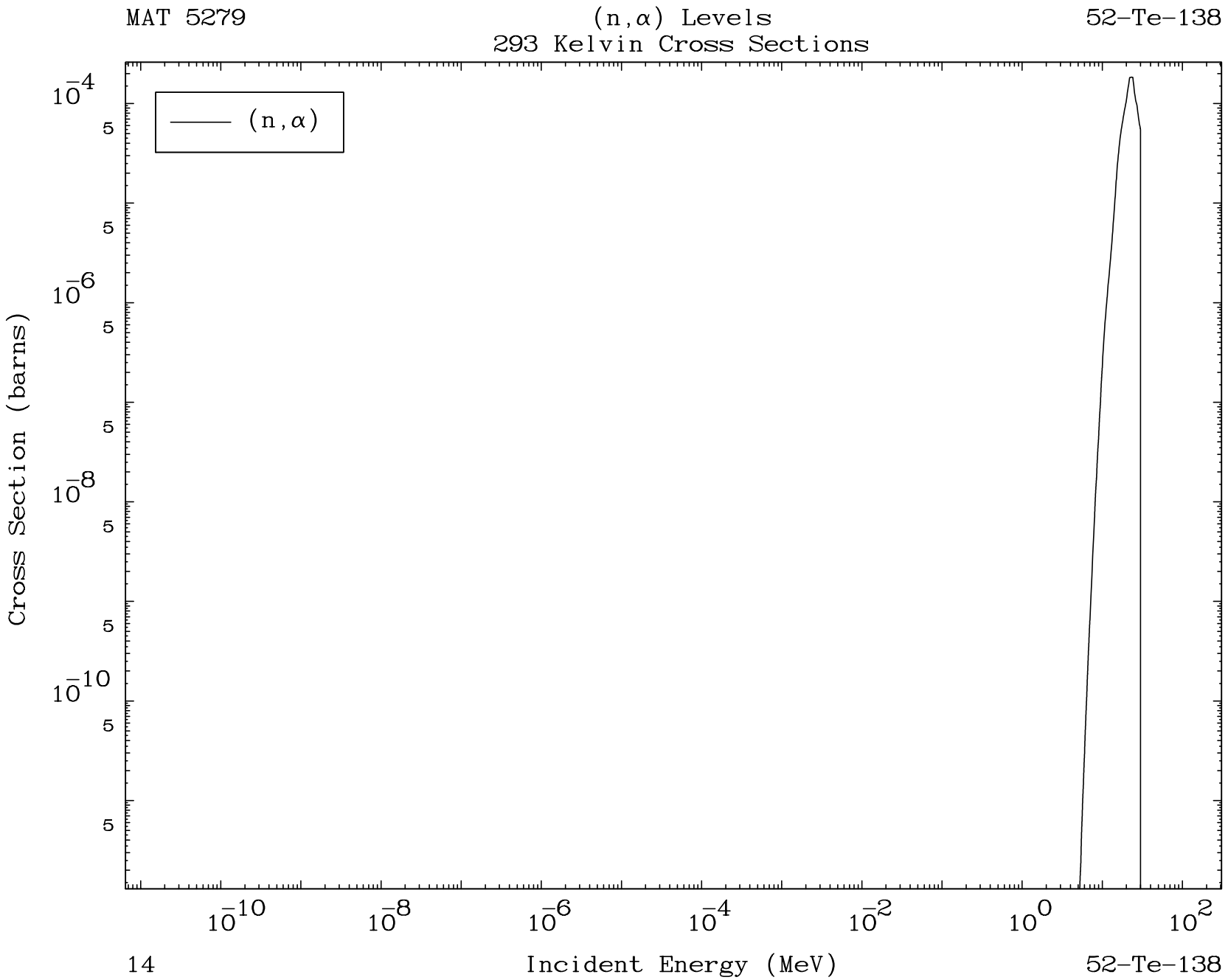

MAT 5279
(n,n') Level
293 Kelvin Cross Sections
52-Te-138
MT= 70 (n,n') Level
MT= 71 (n,n') Level
MT= 72 (n,n') Level
MT= 73 (n,n') Level
MT= 74 (n,n') Level
MT= 75 (n,n') Level
MT= 76 (n,n') Level
(n,n') Continuum
Cross Section (barns)
Incident Energy (MeV)
9
52-Te-138

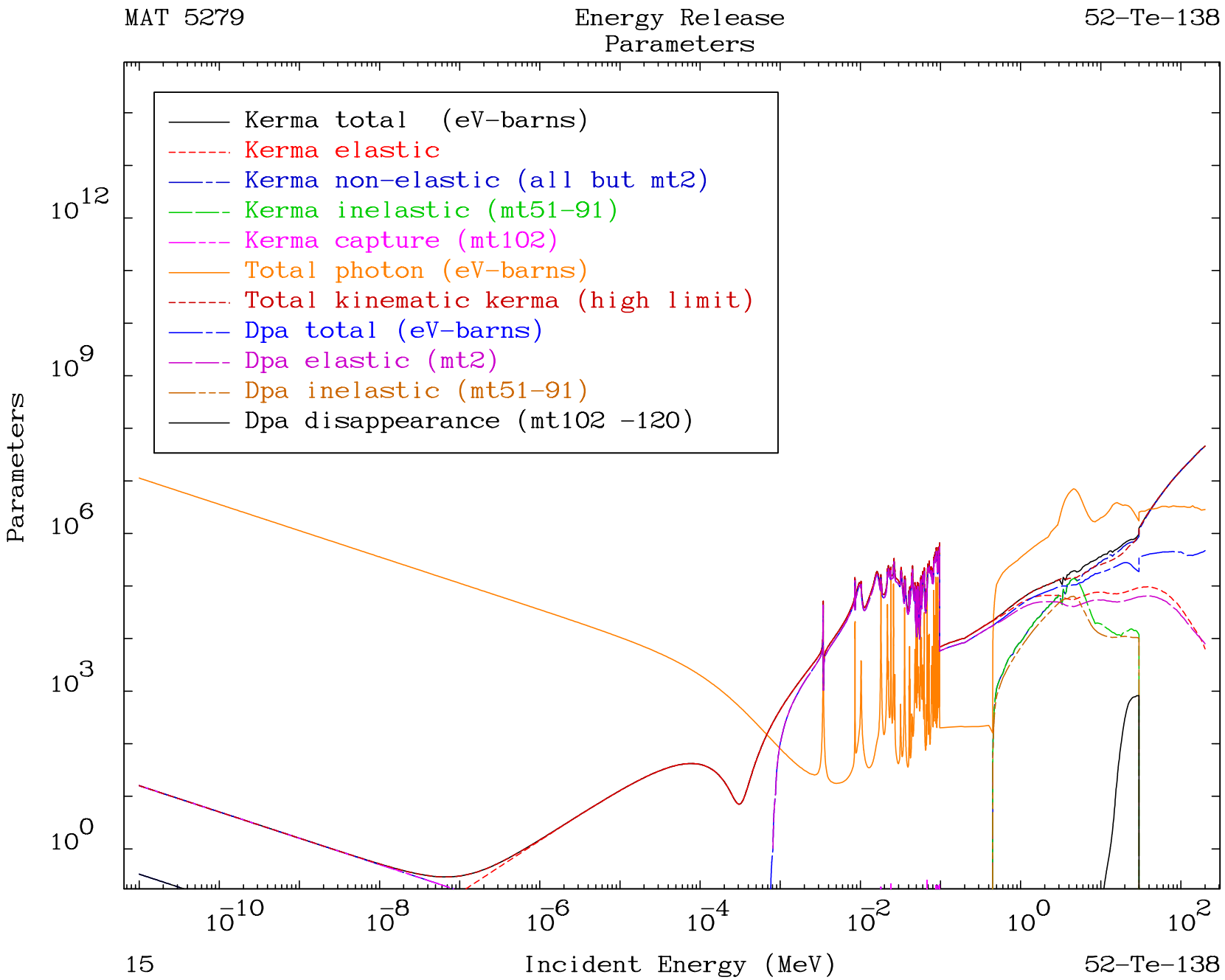

MAT 5279
(n,p) Levels
52-Te-138
293 Kelvin Cross Sections
(n,p)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
10^1
10
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)
52-Te-138

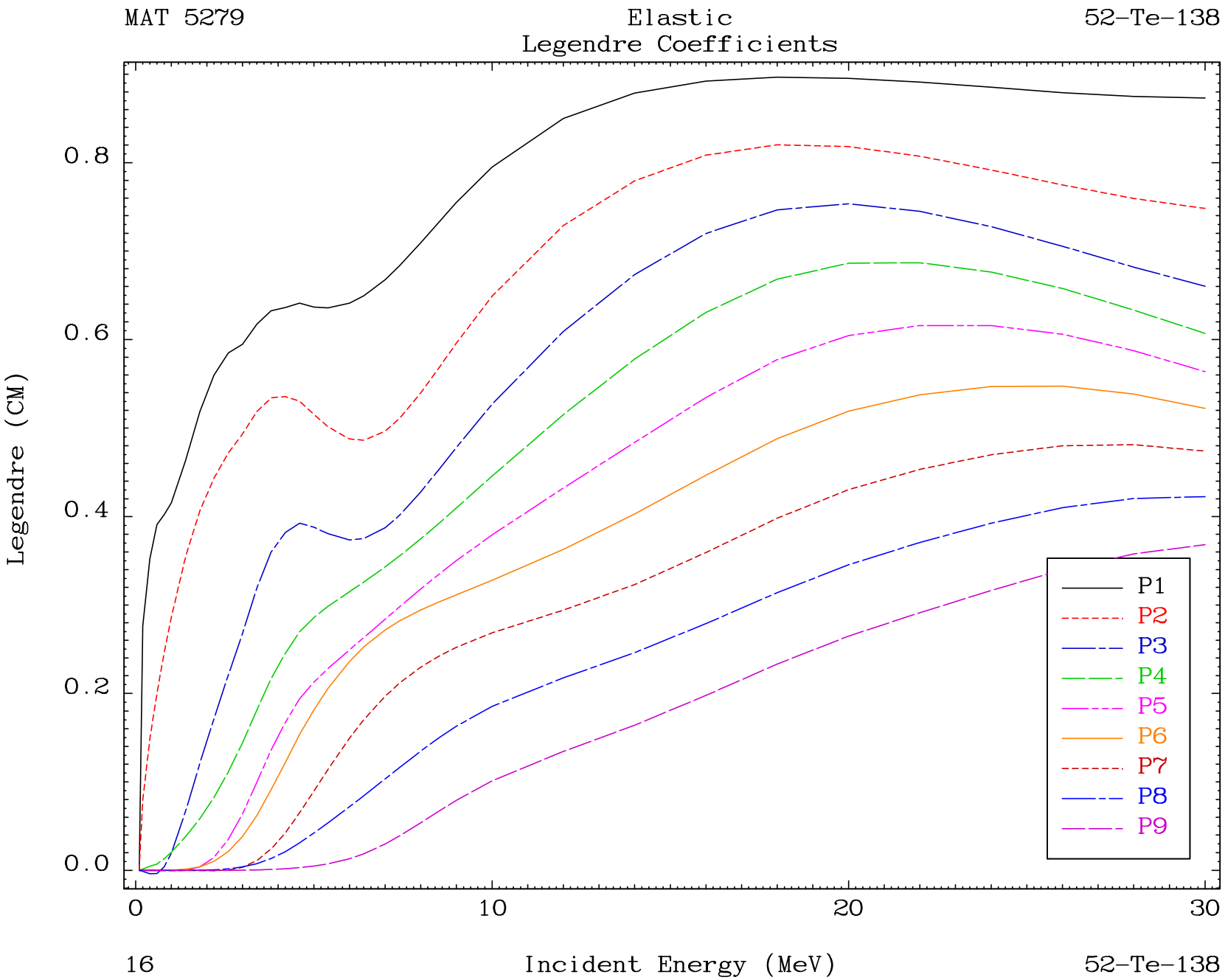

MAT 5279
(n,d) Levels
293 Kelvin Cross Sections
52-Te-138
(n,d)
Cross Section (barns)
$10^{-4}$
$10^{-6}$
$10^{-8}$
$10^{-10}$
5
2
3
4
5
6
7
8
9
$10^{2}$
2
Incident Energy (MeV)
11
52-Te-138

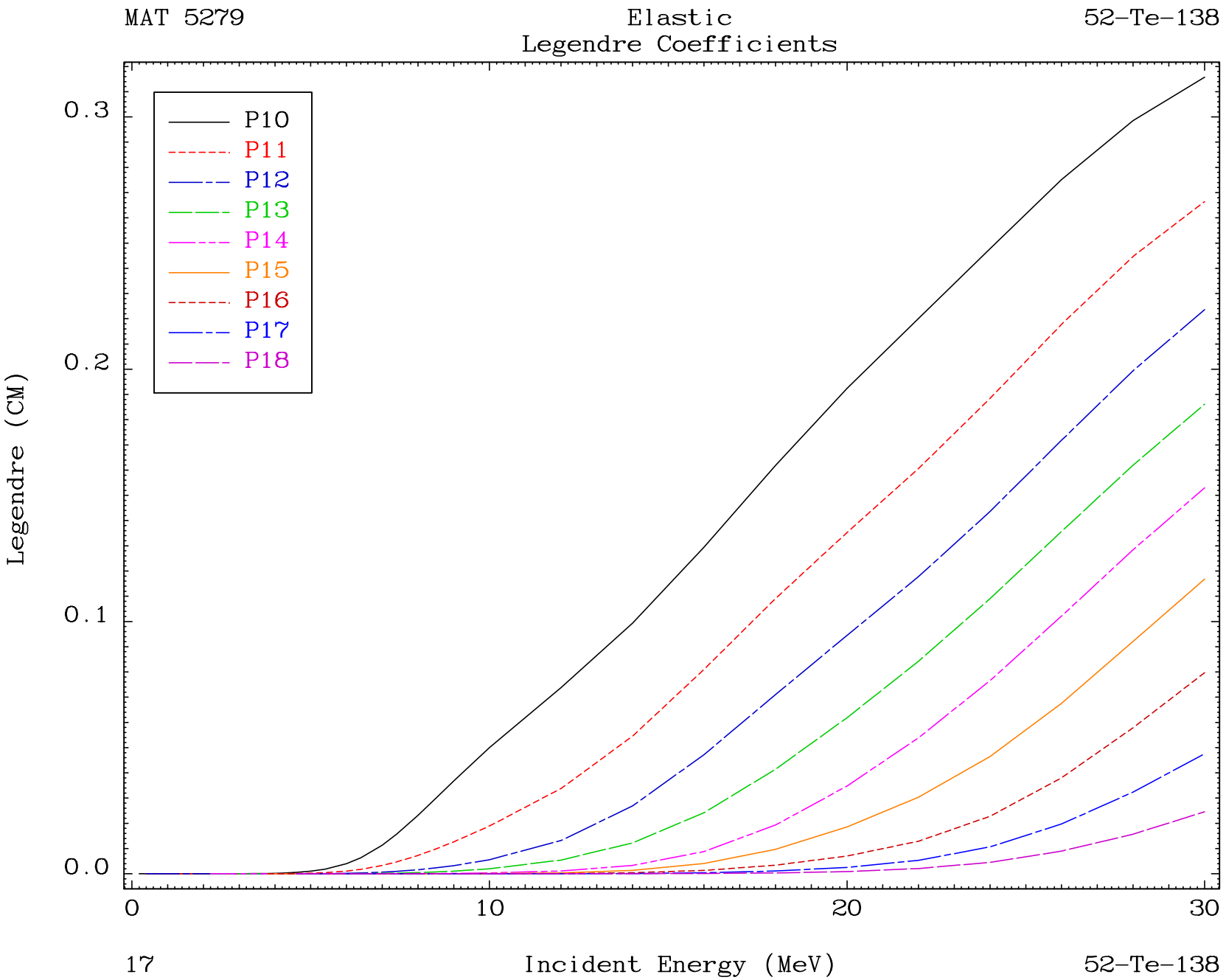

MAT 5279
(n,t) Levels
52-Te-138
293 Kelvin Cross Sections
(n,t)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
Incident Energy (MeV)
12
52-Te-138

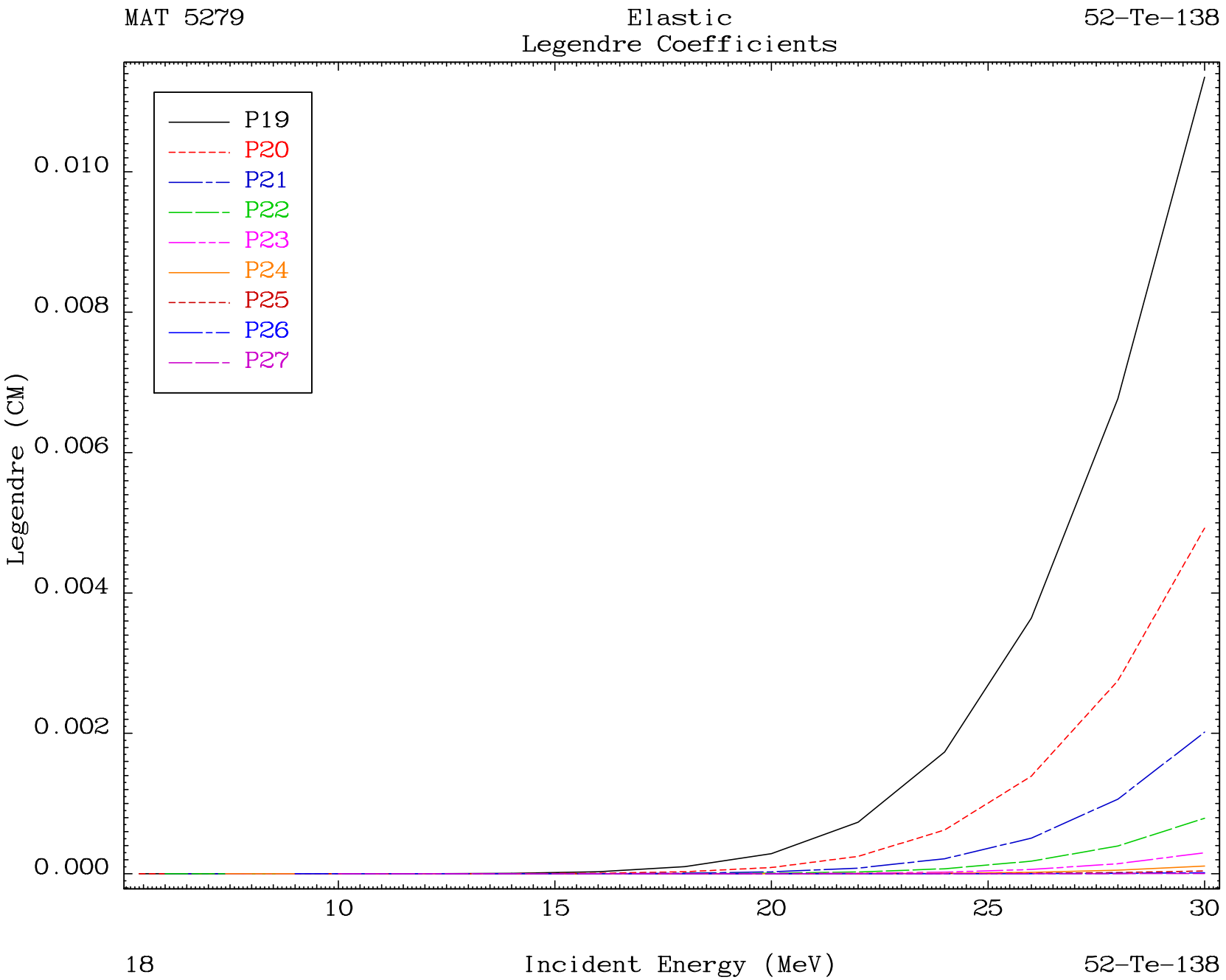

MAT 5279
(n,He3) Levels
52-Te-138
293 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
10-8
10-10
10-12
10-14
5
2
3
4
5
6
7
8
9
10 2
2
13
Incident Energy (MeV)
52-Te-138

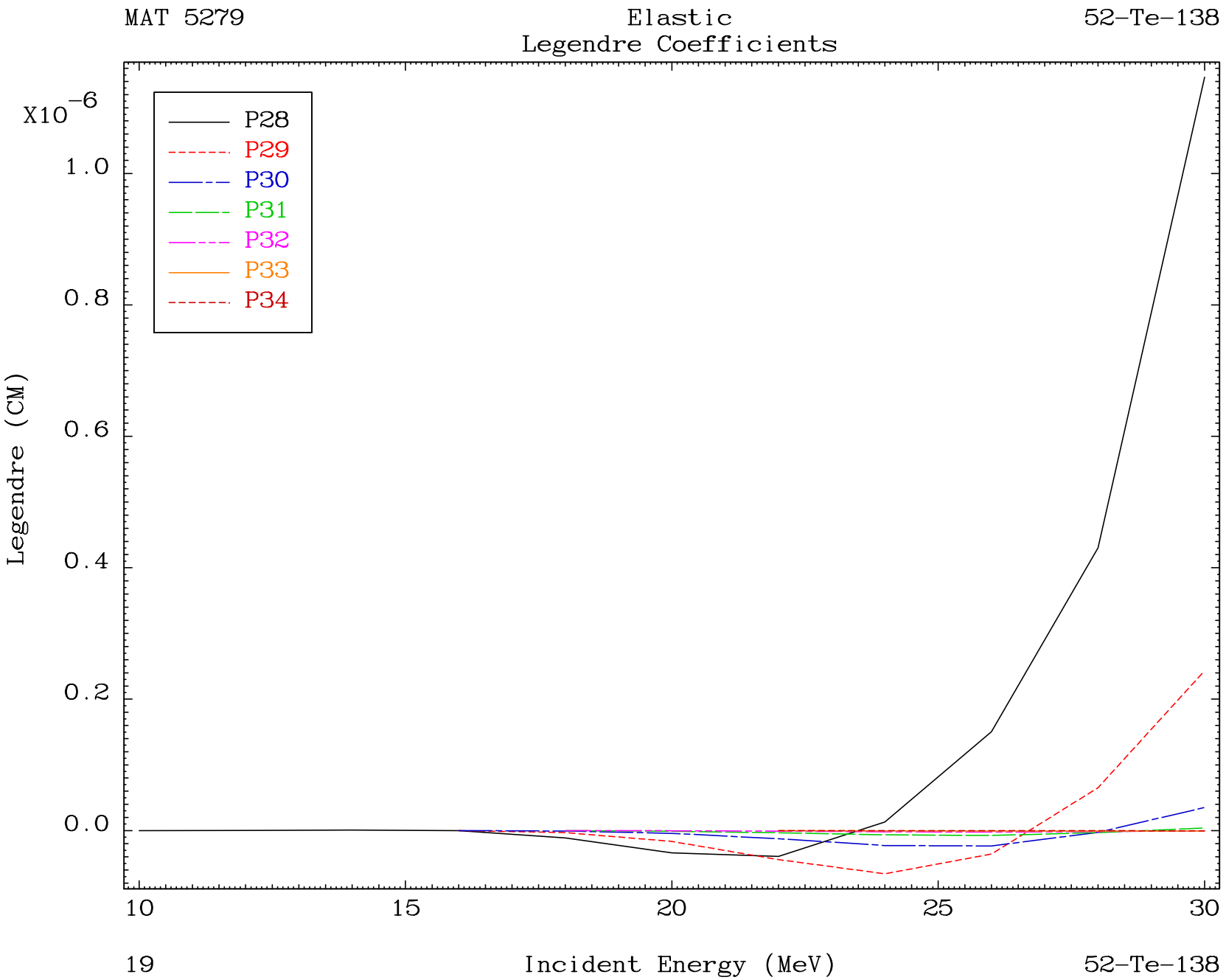

MAT 5279
(n,α) Levels
52-Te-138
293 Kelvin Cross Sections
(n,α)
Cross Section (barns)
10-4
5
10-6
5
10-8
5
10-10
5
5
10-10
10-8
10-6
10-4
10-2
100
102
14
Incident Energy (MeV)
52-Te-138

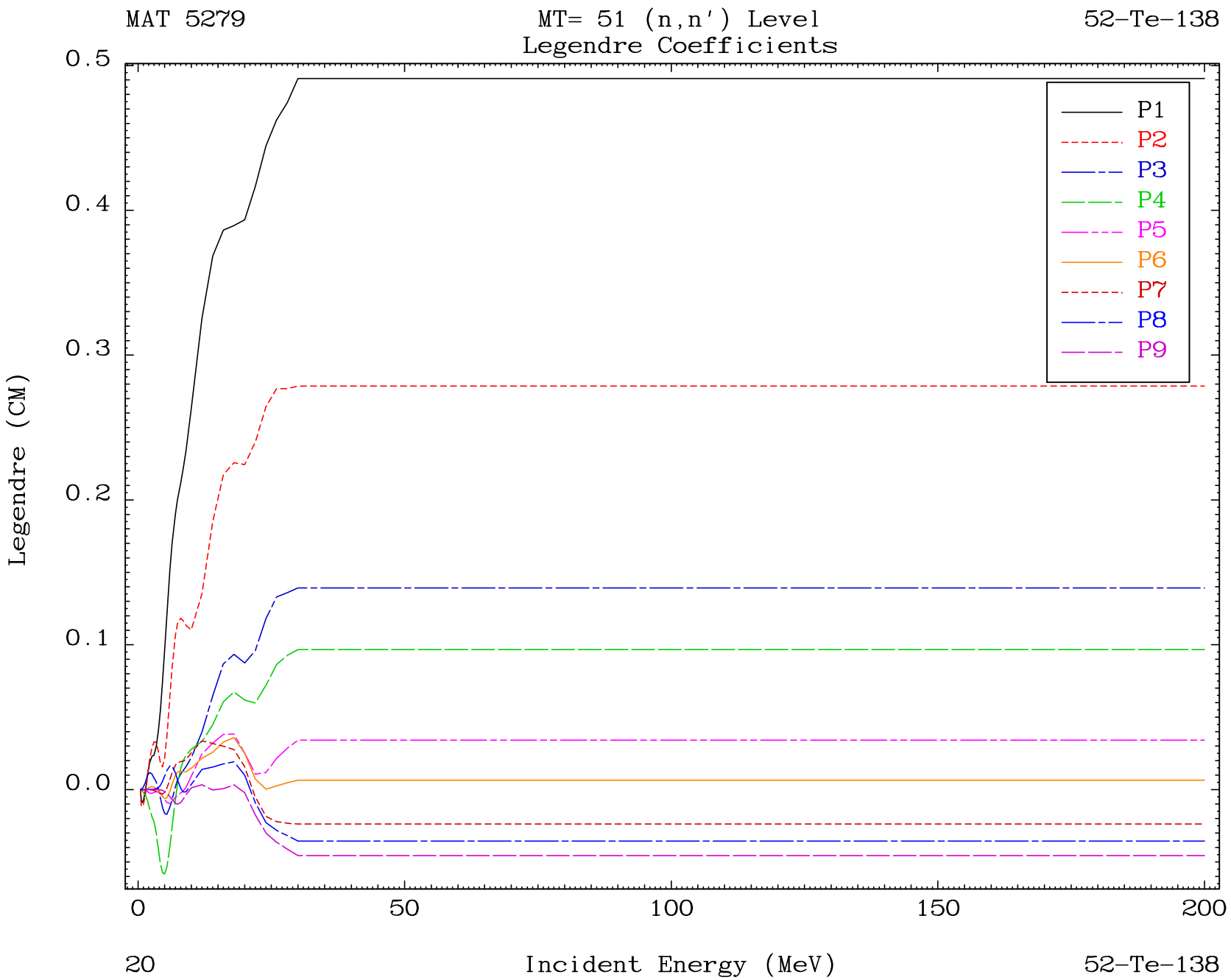

MAT 5279
Energy Release
Parameters
52-Te-138
Kerma total (eV-barns)
Kerma elastic
Kerma non-elastic (all but mt2)
Kerma inelastic (mt51-91)
Kerma capture (mt102)
Total photon (eV-barns)
Total kinematic kerma (high limit)
Dpa total (eV-barns)
Dpa elastic (mt2)
Dpa inelastic (mt51-91)
Dpa disappearance (mt102 -120)
Parameters
$10^{12}$
$10^{9}$
$10^{6}$
$10^{3}$
$10^{0}$
$10^{-10}$
$10^{-8}$
$10^{-6}$
$10^{-4}$
$10^{-2}$
$10^{0}$
$10^{2}$
15
Incident Energy (MeV)
52-Te-138

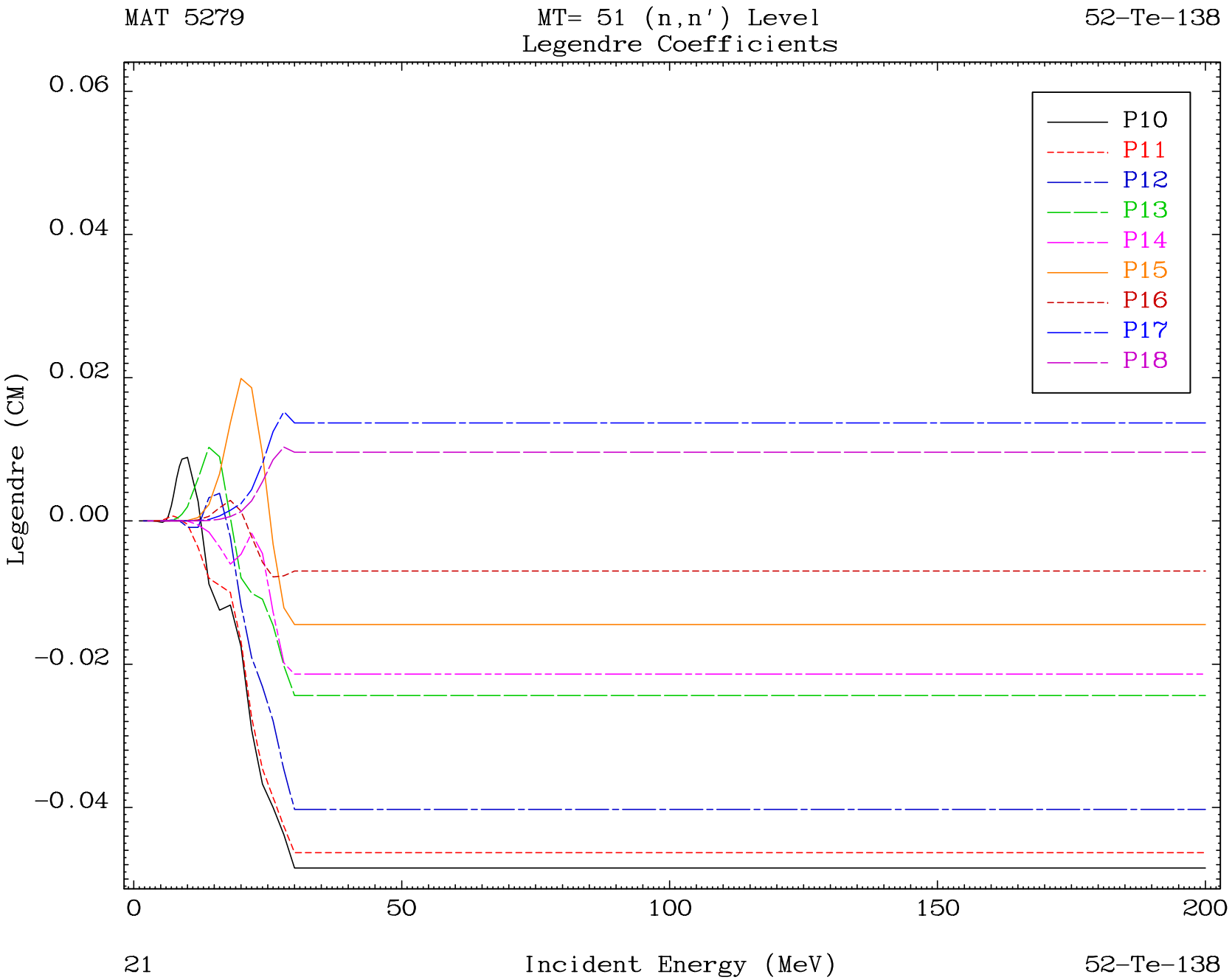

MAT 5279
Elastic
Legendre Coefficients
52-Te-138
Legendre (CM)
0.0
0.2
0.4
0.6
0.8
0
10
20
30
16
Incident Energy (MeV)
52-Te-138
P1
P2
P3
P4
P5
P6
P7
P8
P9

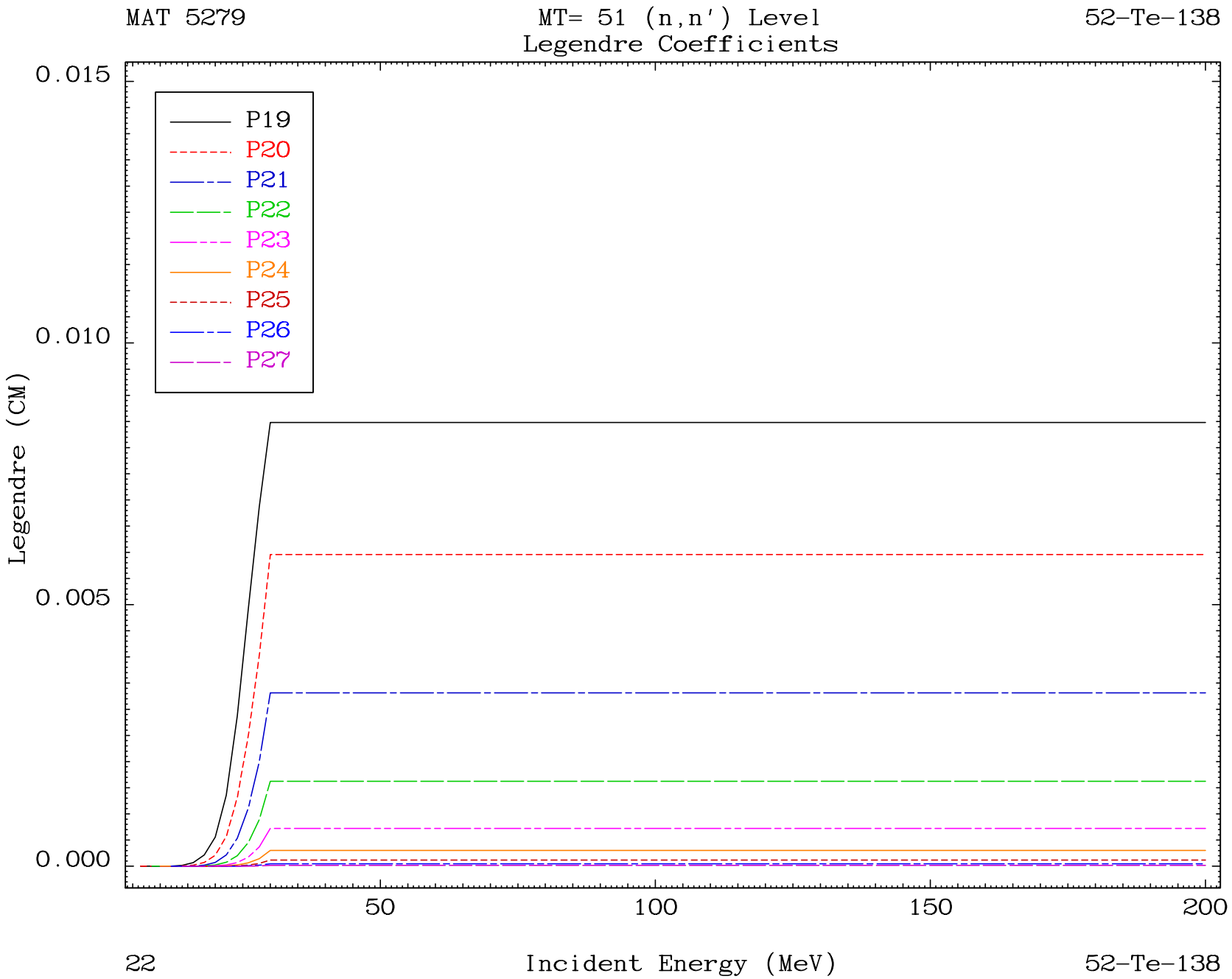

MAT 5279
Elastic
Legendre Coefficients
52-Te-138
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.3
0.2
0.1
0.0
Legendre (CM)
0
10
20
30
17
Incident Energy (MeV)
52-Te-138

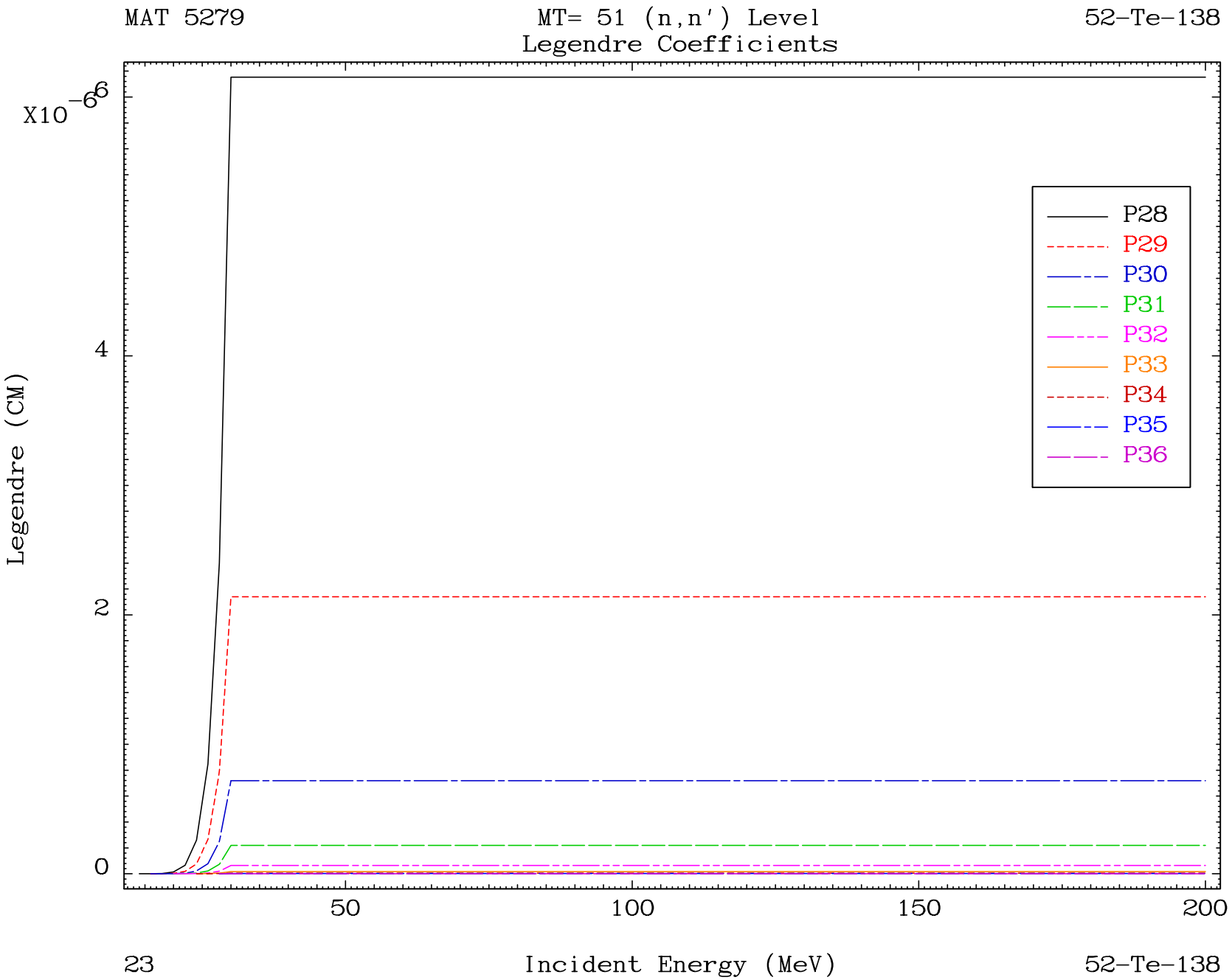

MAT 5279
Elastic
Legendre Coefficients
52-Te-138
P19
P20
P21
P22
P23
P24
P25
P26
P27
0.010
0.008
0.006
0.004
0.002
0.000
Legendre (CM)
10
15
20
25
30
18
Incident Energy (MeV)
52-Te-138

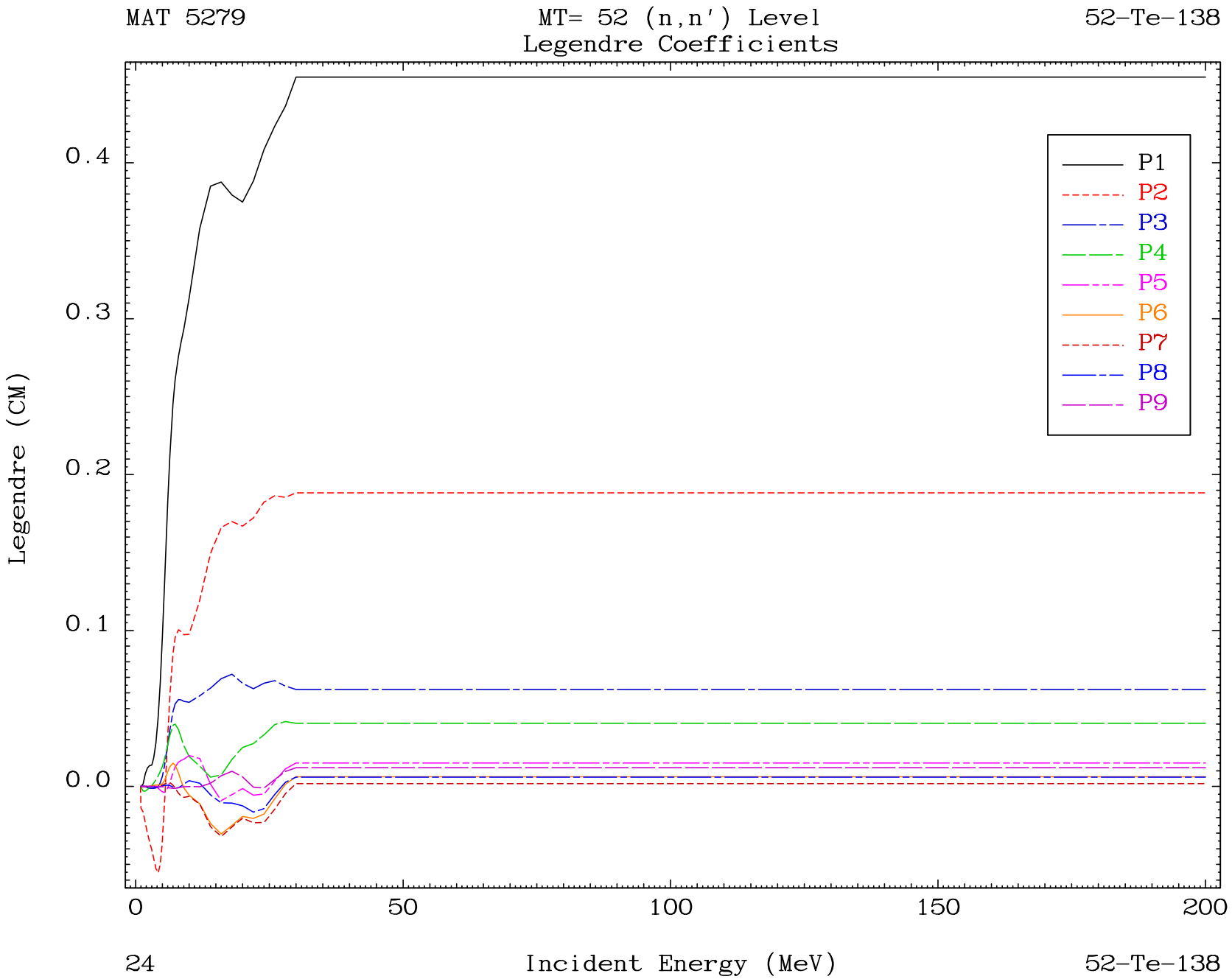

MAT 5279
Elastic
Legendre Coefficients
52-Te-138
X10 −6
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
10
15
20
25
30
19
Incident Energy (MeV)
52-Te-138

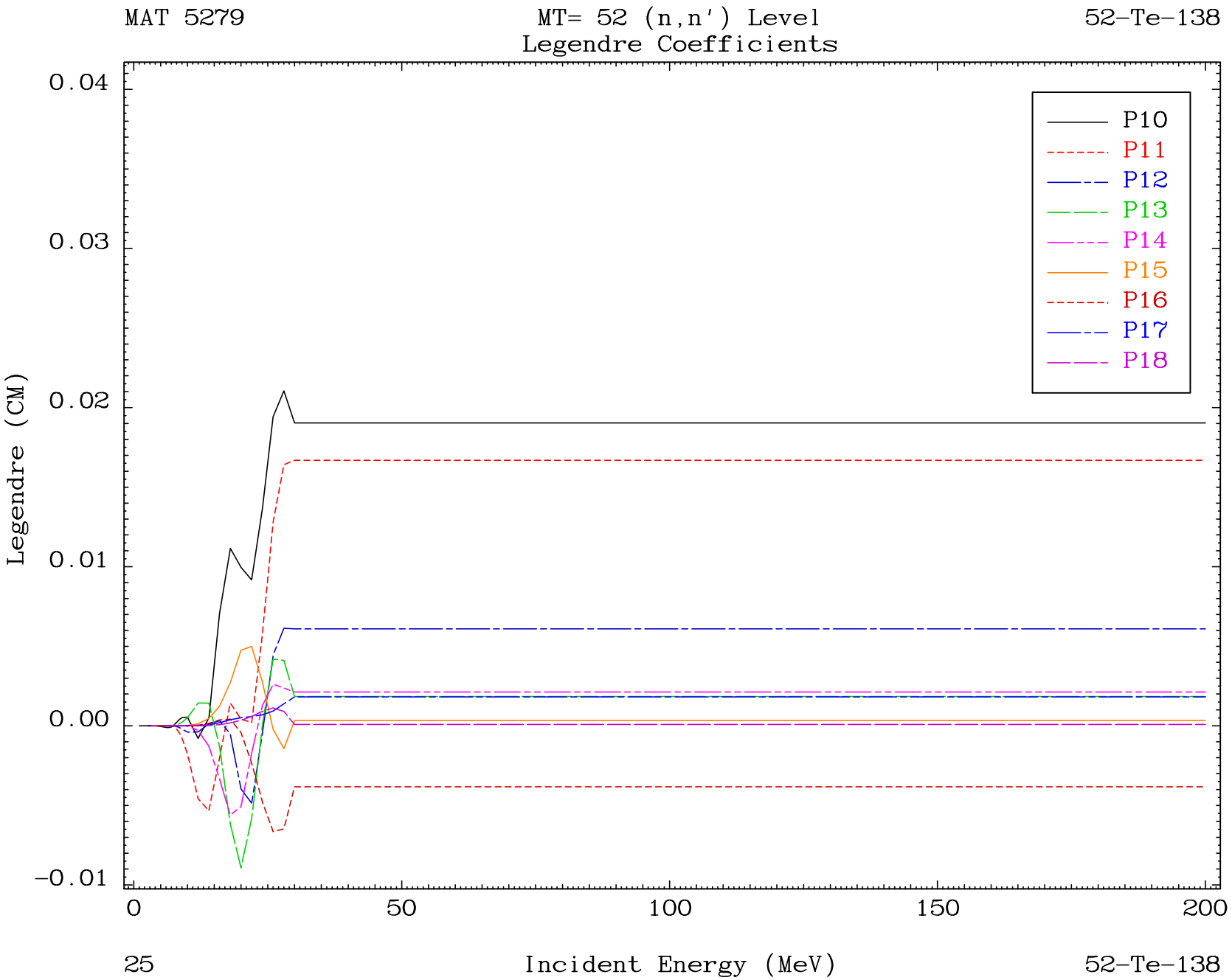

MAT 5279
MT= 51 (n,n') Level
Legendre Coefficients
52-Te-138
0.5
0.4
0.3
0.2
0.1
0.0
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
20
Incident Energy (MeV)
52-Te-138

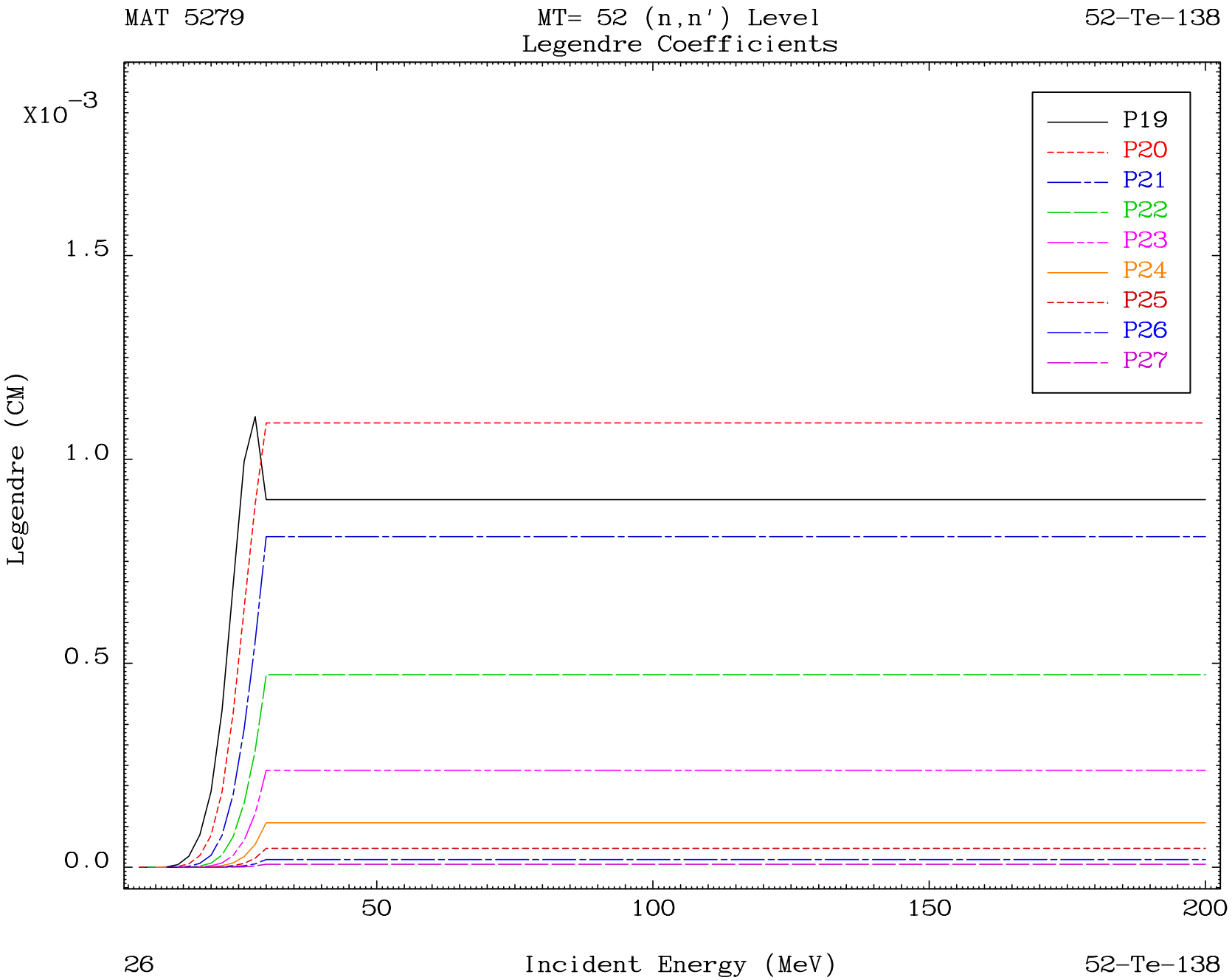

MAT 5279
MT= 51 (n,n') Level
Legendre Coefficients
52-Te-138
0.06
0.04
0.02
0.00
-0.02
-0.04
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
21
Incident Energy (MeV)
52-Te-138

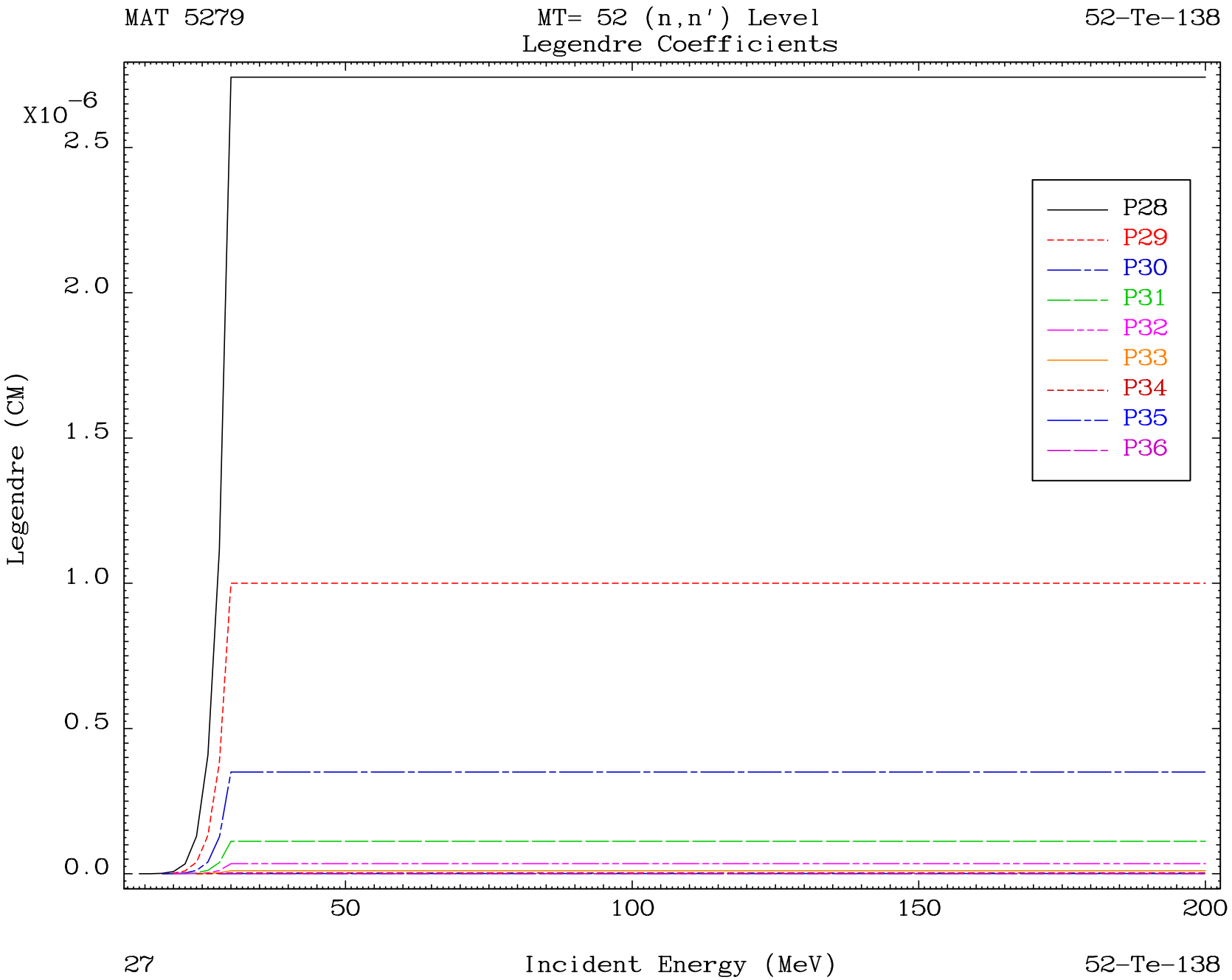

MAT 5279
MT= 51 (n,n') Level
Legendre Coefficients
52-Te-138
P19
P20
P21
P22
P23
P24
P25
P26
P27
0.015
0.010
0.005
0.000
Legendre (CM)
50
100
150
200
22
Incident Energy (MeV)
52-Te-138

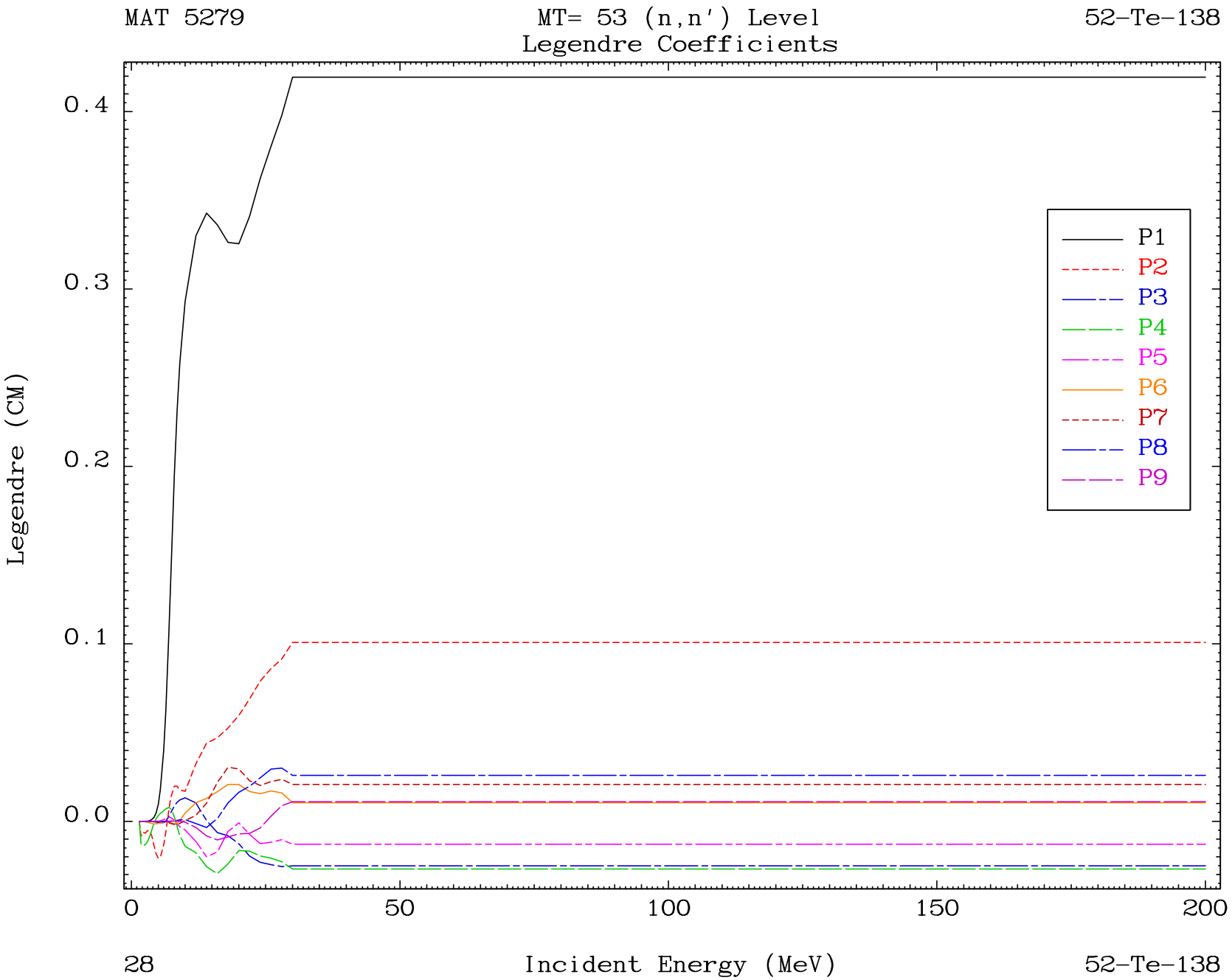

MAT 5279
MT= 51 (n,n') Level
Legendre Coefficients
52-Te-138
X10^-6
6
4
2
0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
P35
P36
50
100
150
200
23
Incident Energy (MeV)
52-Te-138

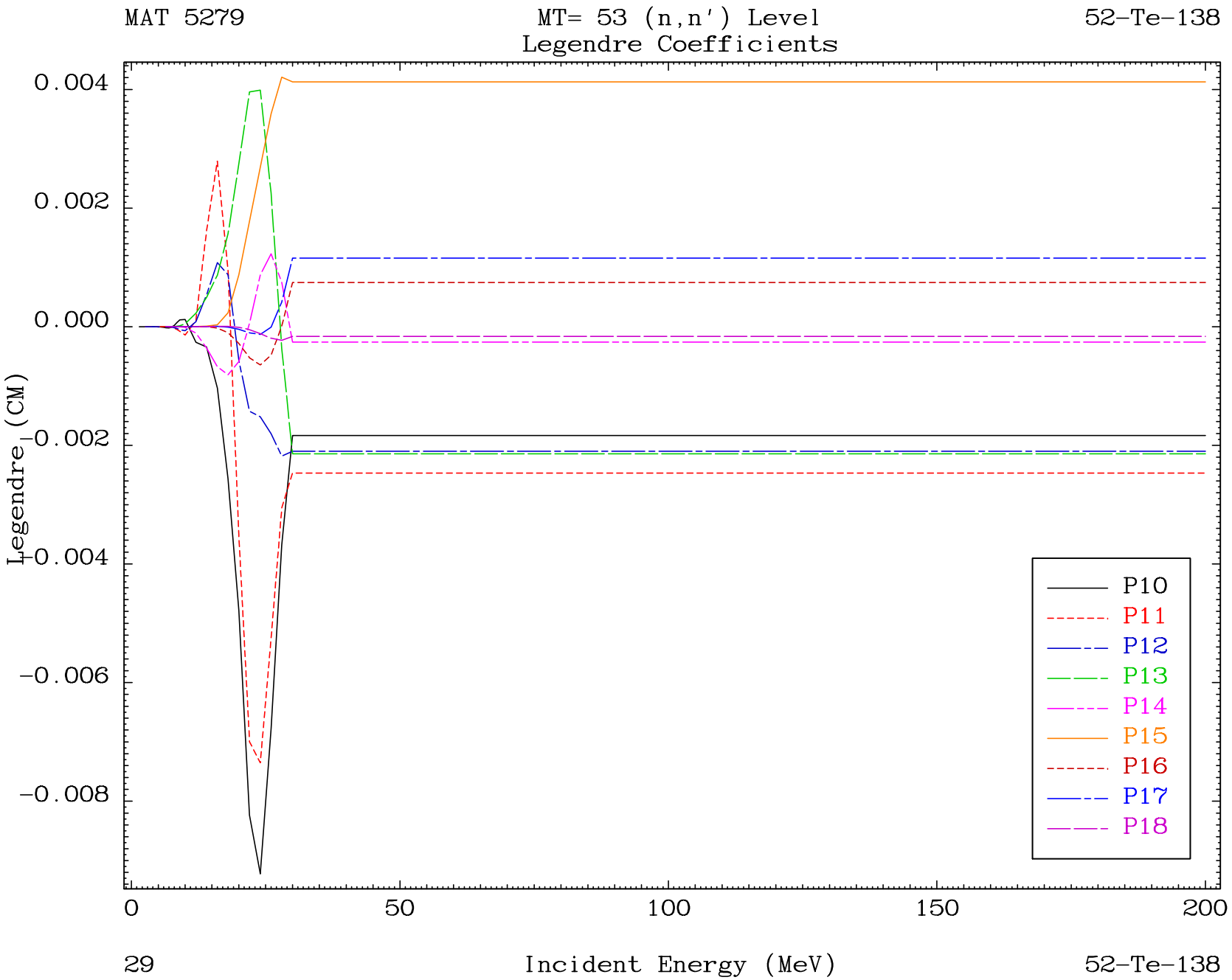

MAT 5279
MT= 52 (n,n') Level
Legendre Coefficients
52-Te-138
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
Incident Energy (MeV)
24
52-Te-138
P1
P2
P3
P4
P5
P6
P7
P8
P9

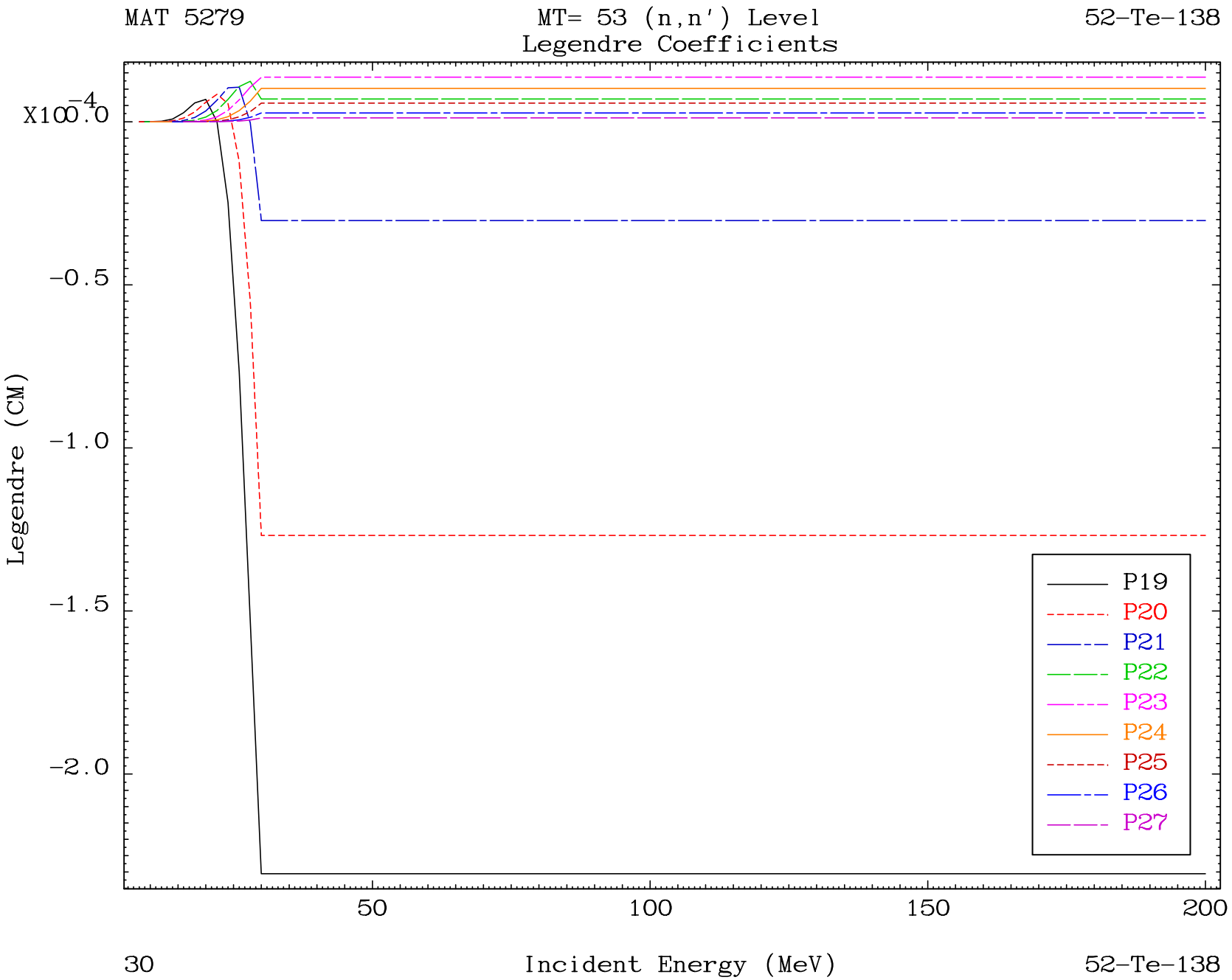

MAT 5279
MT= 52 (n,n') Level
Legendre Coefficients
52-Te-138
0.04
0.03
0.02
0.01
0.00
-0.01
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
25
Incident Energy (MeV)
52-Te-138

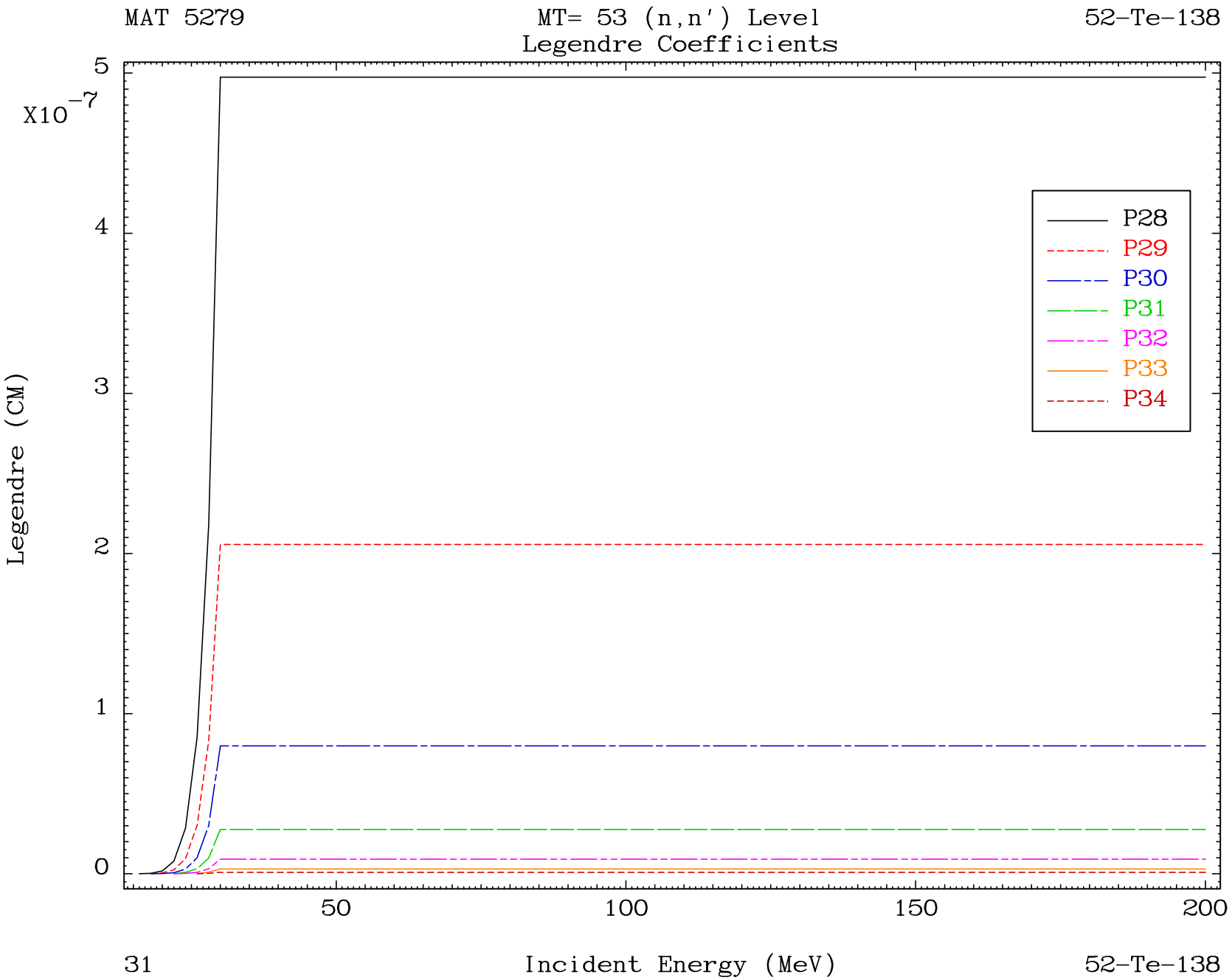

MAT 5279
MT= 52 (n,n') Level
Legendre Coefficients
52-Te-138
X10^-3
1.5
1.0
0.5
0.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
26
Incident Energy (MeV)
52-Te-138

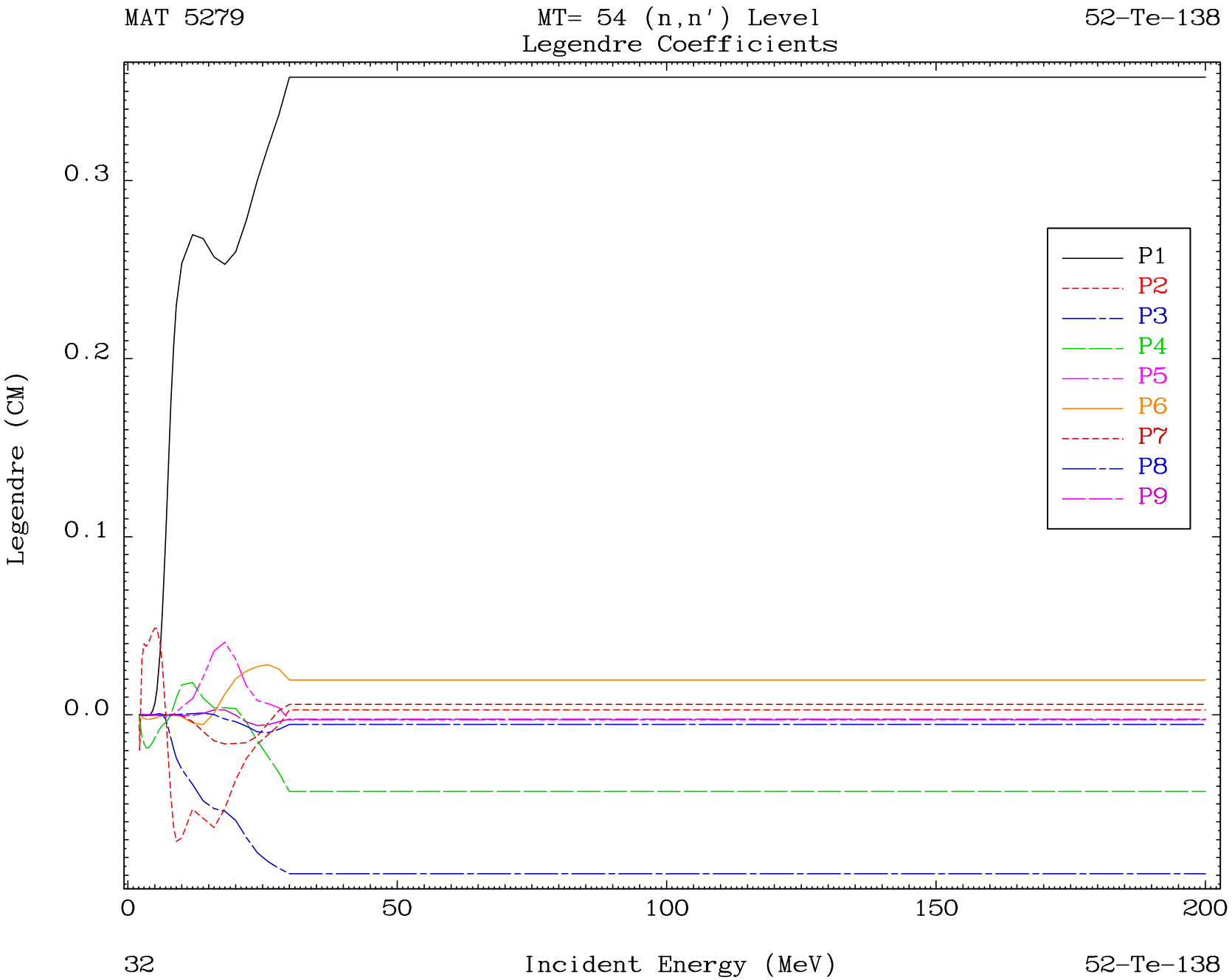

MAT 5279
MT= 52 (n,n') Level
Legendre Coefficients
52-Te-138
X10^-6
2.5
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
P35
P36
50
100
150
200
27
Incident Energy (MeV)
52-Te-138

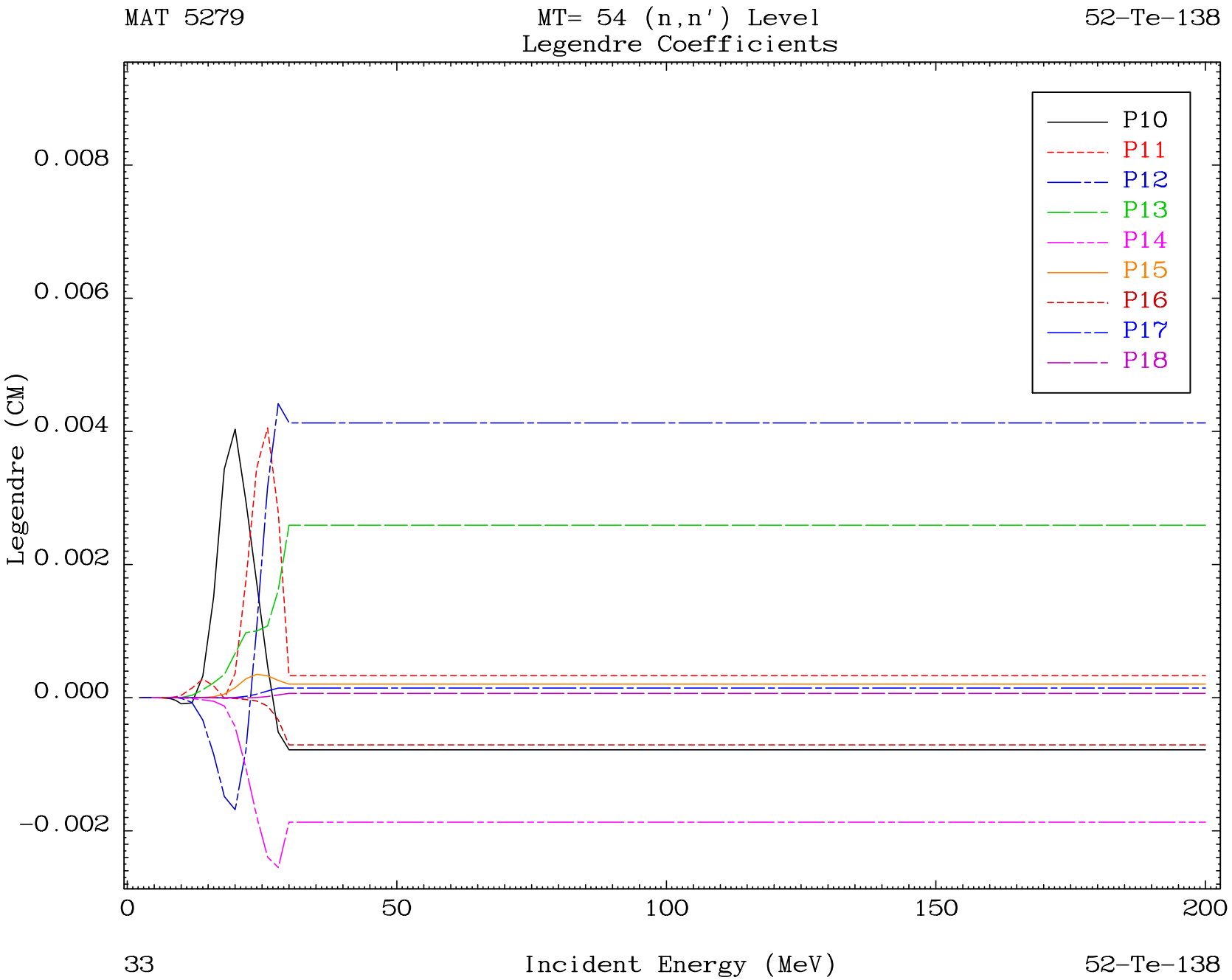

MAT 5279
MT= 53 (n,n') Level
Legendre Coefficients
52-Te-138
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
28
Incident Energy (MeV)
52-Te-138
P1
P2
P3
P4
P5
P6
P7
P8
P9

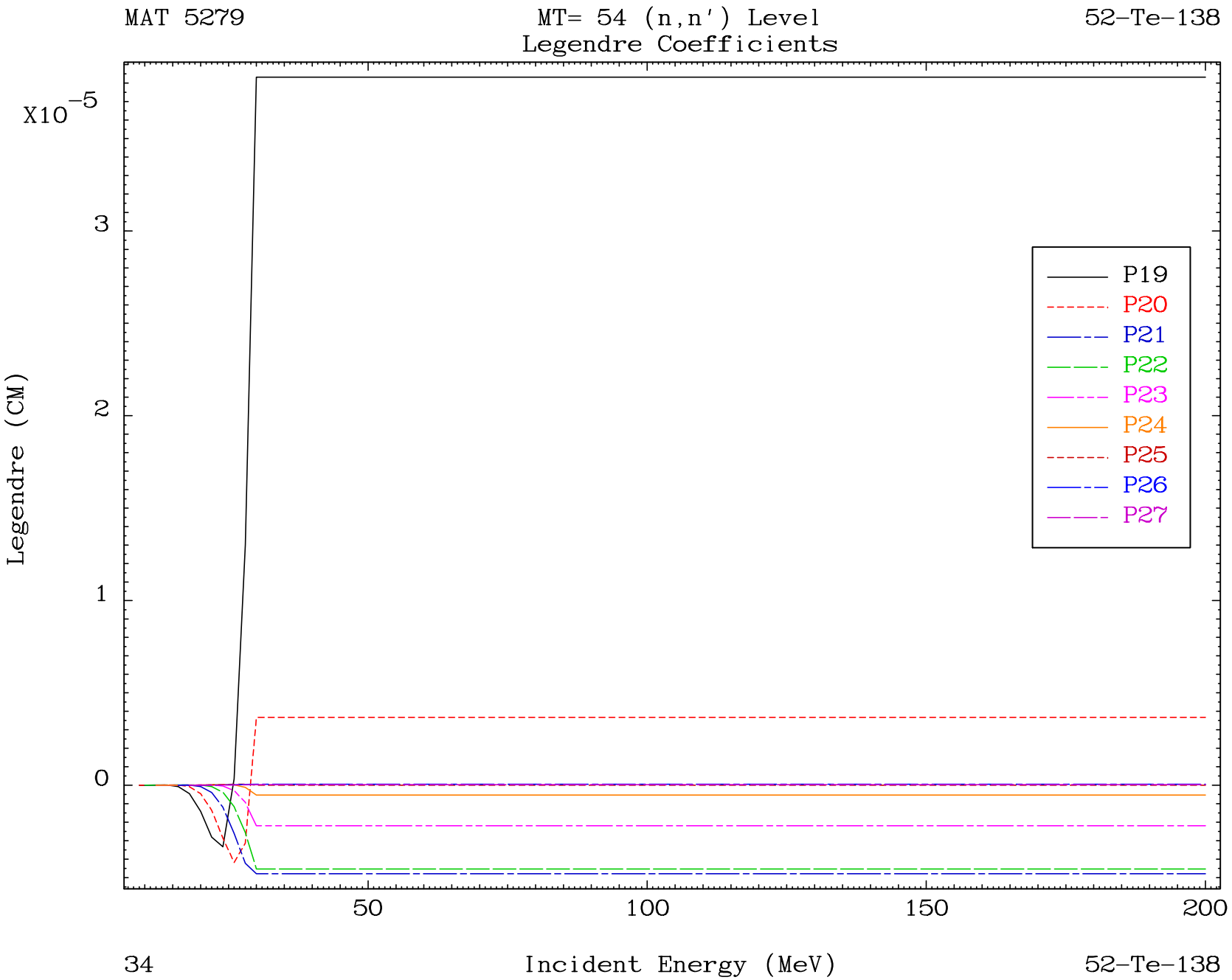

MAT 5279
MT= 53 (n,n') Level
Legendre Coefficients
52-Te-138
0.004
0.002
0.000
−0.002
−0.004
−0.006
−0.008
Legendre$_l$ (CM)
0
50
100
150
200
29
Incident Energy (MeV)
52-Te-138
P10
P11
P12
P13
P14
P15
P16
P17
P18

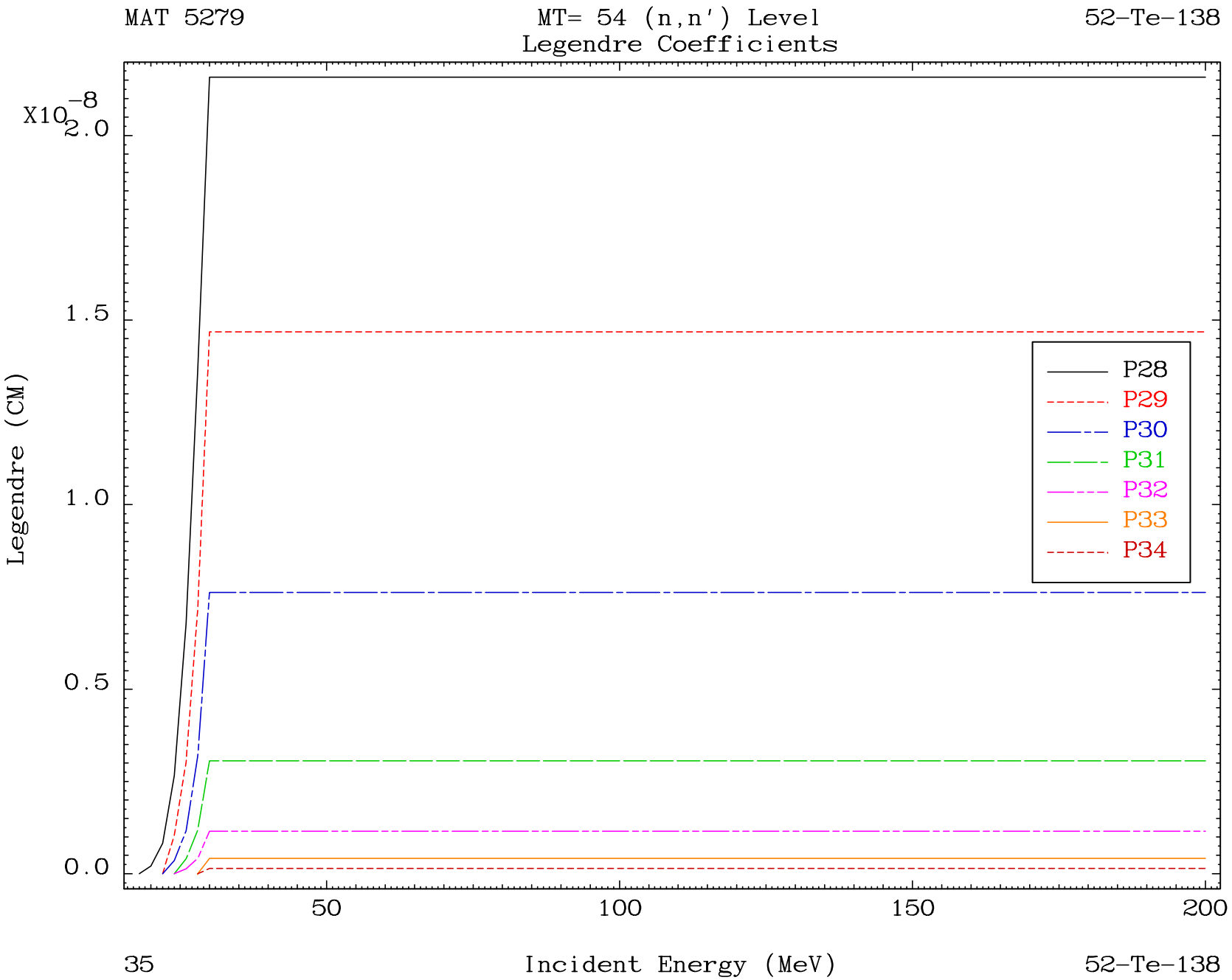

MAT 5279
MT= 53 (n,n') Level
Legendre Coefficients
52-Te-138
X10^-4
0.0
-0.5
-1.0
-1.5
-2.0
Legendre (CM)
50
100
150
200
30
Incident Energy (MeV)
52-Te-138
P19
P20
P21
P22
P23
P24
P25
P26
P27

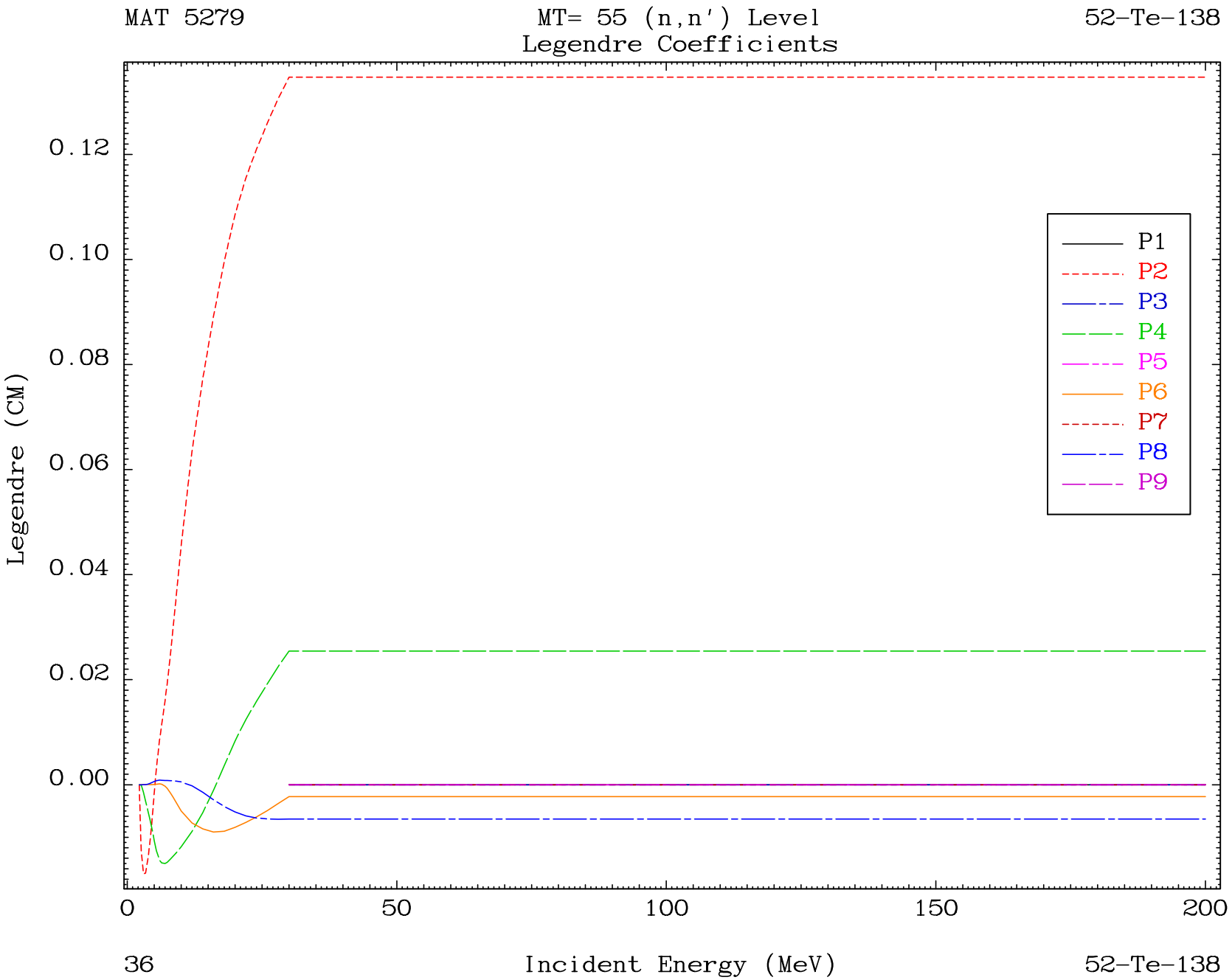

MAT 5279
MT= 53 (n,n') Level
Legendre Coefficients
52-Te-138
X10^-7
5
4
3
2
1
0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
31
Incident Energy (MeV)
52-Te-138

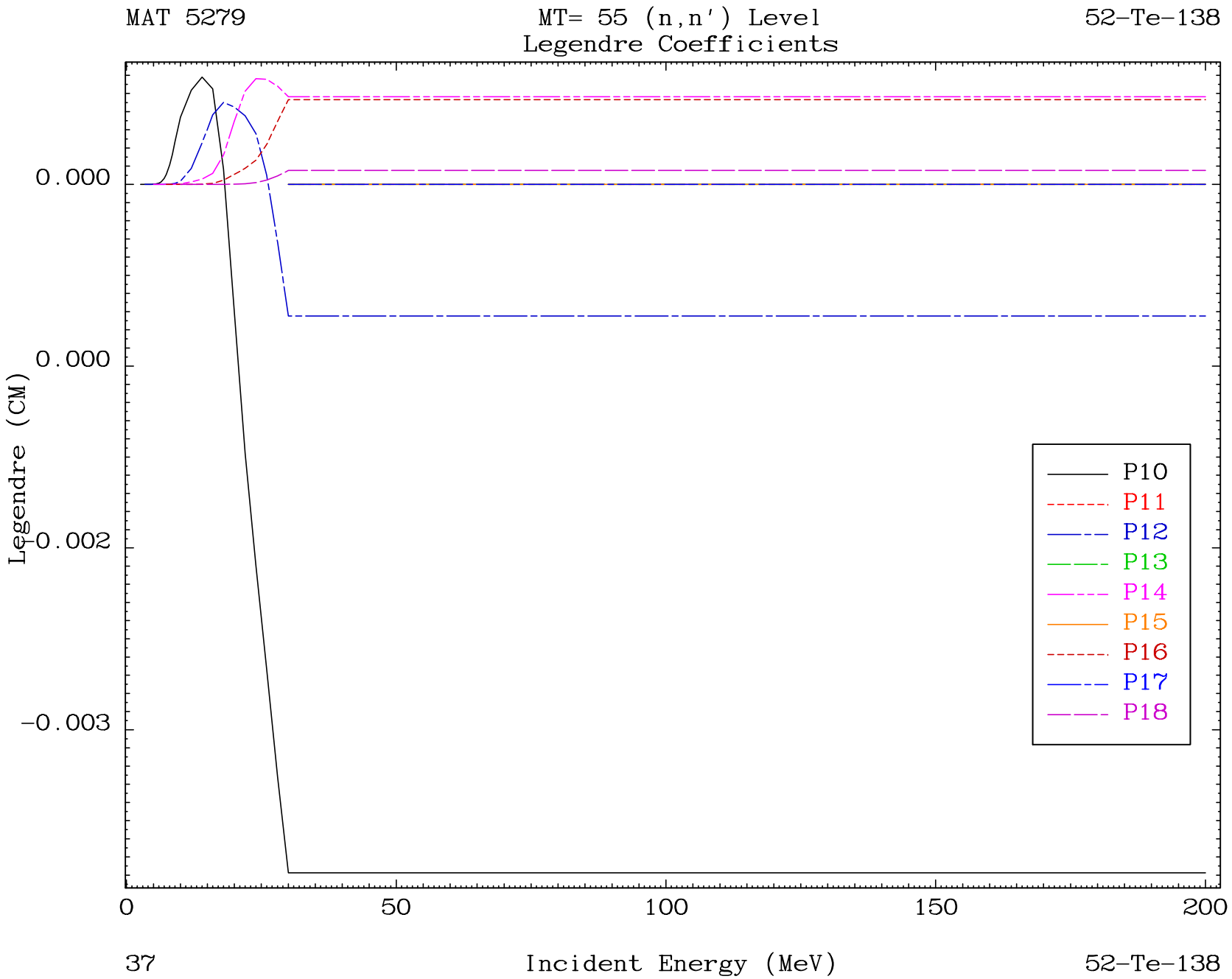

MAT 5279
MT= 54 (n,n') Level
Legendre Coefficients
52-Te-138
Legendre (CM)
0.3
0.2
0.1
0.0
0
50
100
150
200
32
Incident Energy (MeV)
52-Te-138
P1
P2
P3
P4
P5
P6
P7
P8
P9

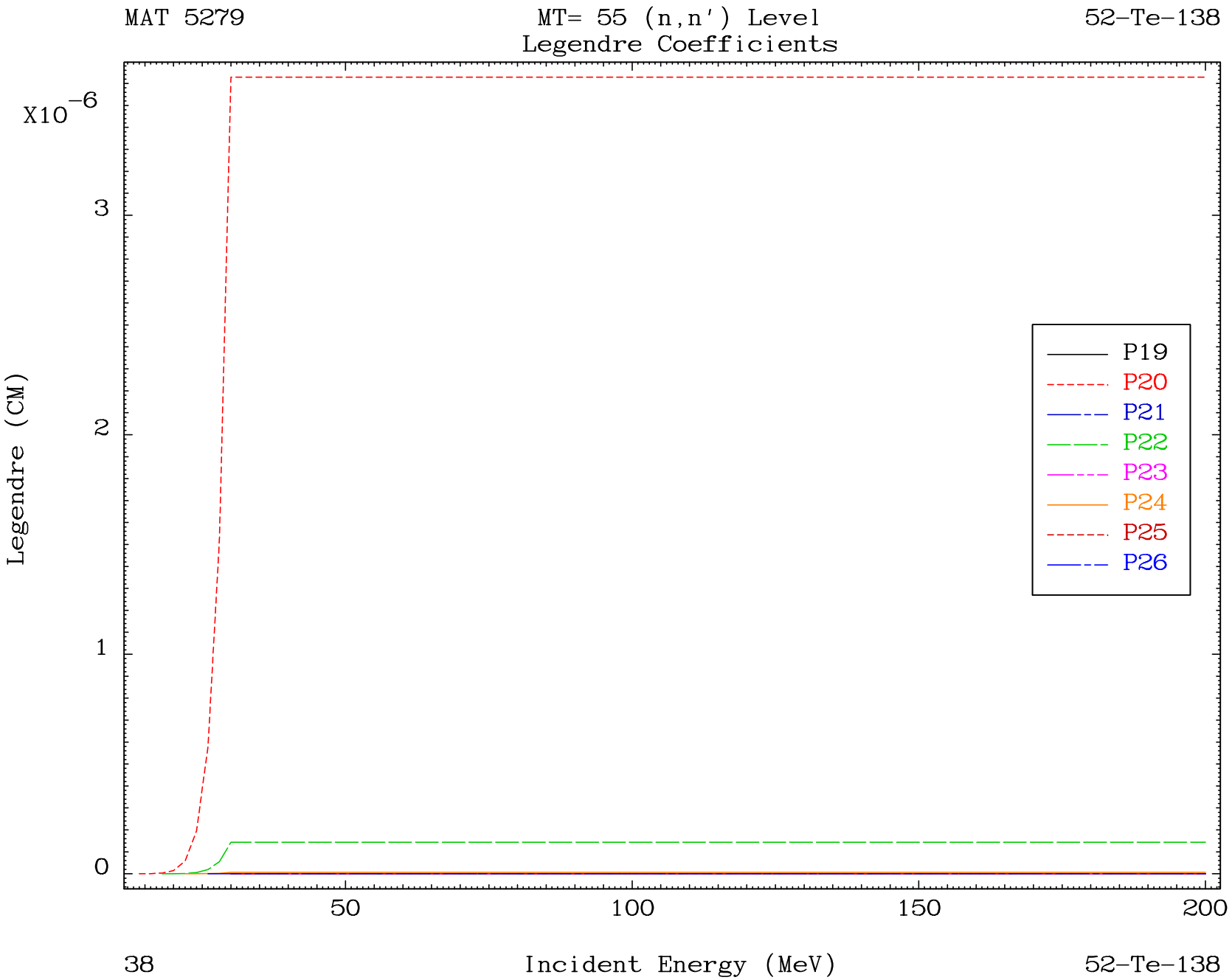

MAT 5279
MT= 54 (n,n') Level
Legendre Coefficients
52-Te-138
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.008
0.006
0.004
0.002
0.000
-0.002
Legendre (CM)
0
50
100
150
200
33
Incident Energy (MeV)
52-Te-138

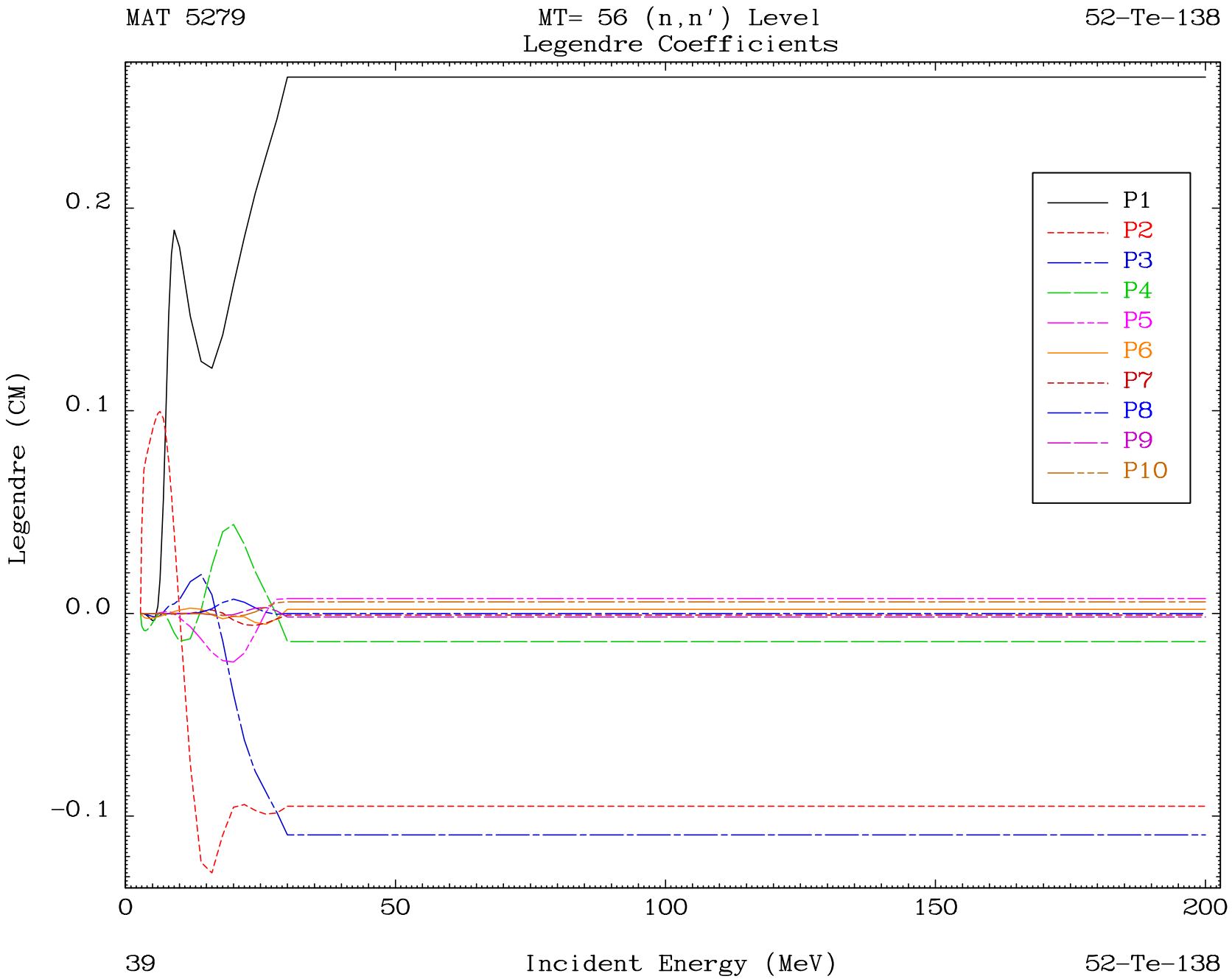

MAT 5279
MT= 54 (n,n') Level
Legendre Coefficients
52-Te-138
X10 −5
3
2
1
0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
34
Incident Energy (MeV)
52-Te-138

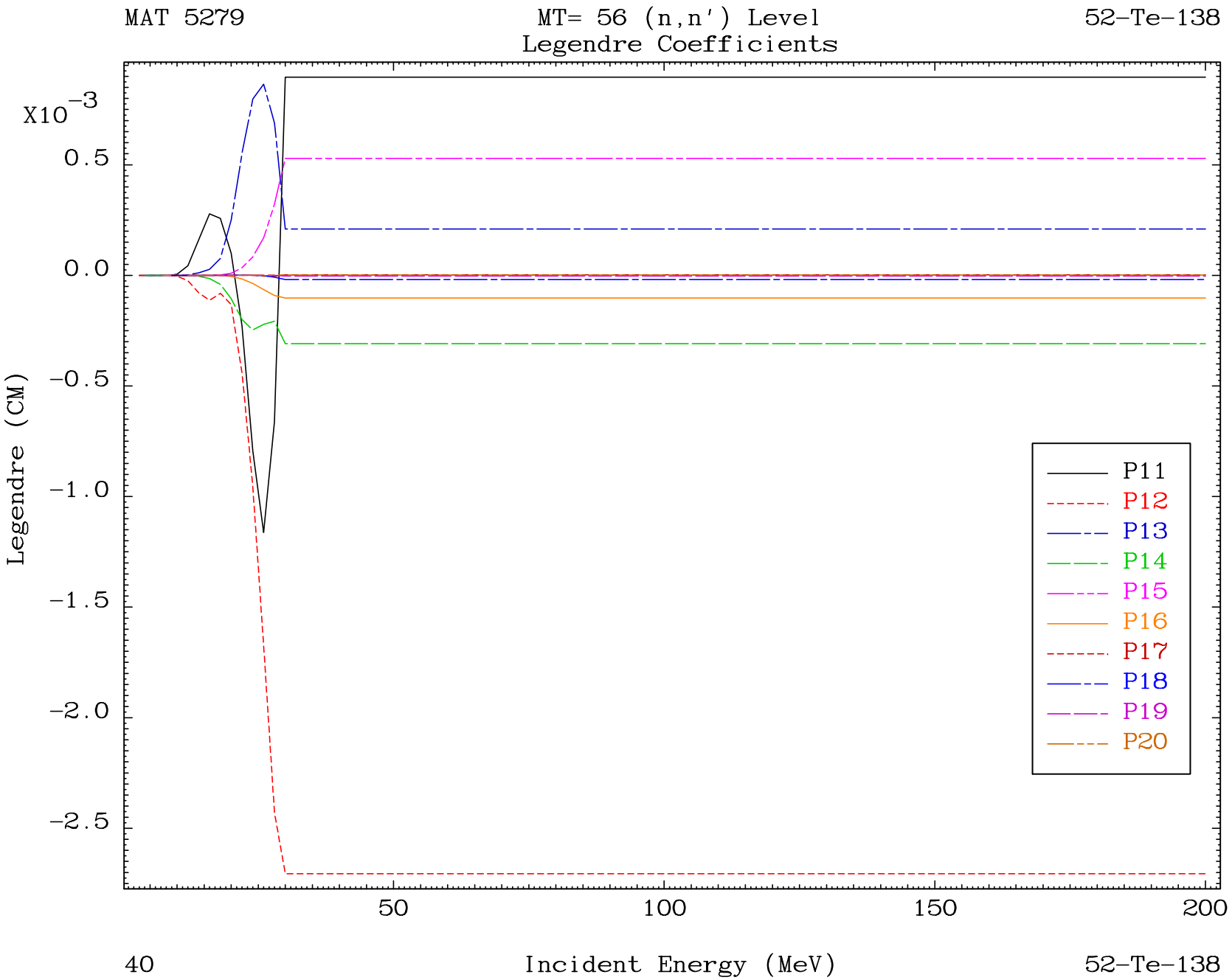

MAT 5279
MT= 54 (n,n') Level
Legendre Coefficients
52-Te-138
X10-8
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
35
Incident Energy (MeV)
52-Te-138

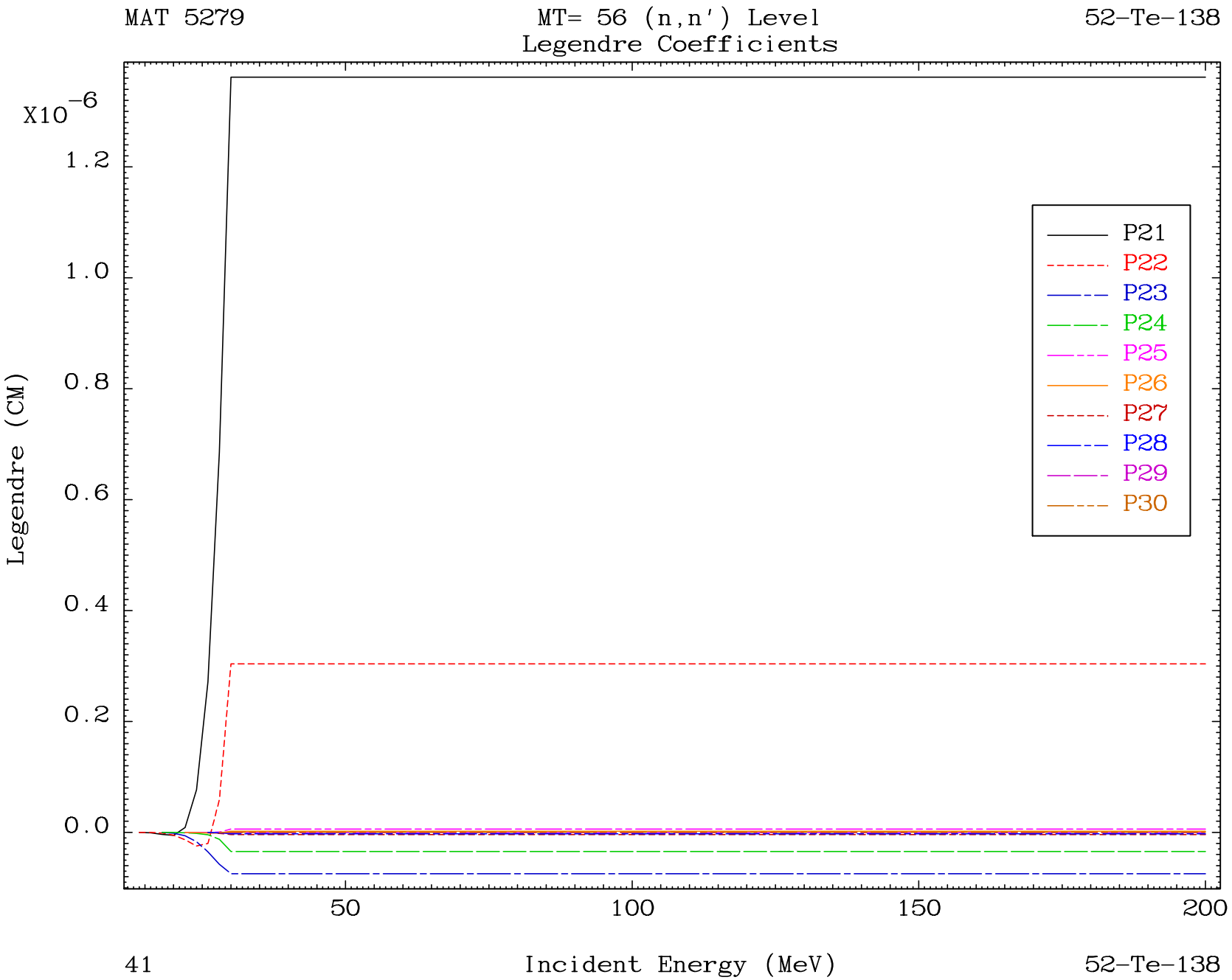

MAT 5279
MT= 55 (n,n') Level
Legendre Coefficients
52-Te-138
0.12
0.10
0.08
0.06
0.04
0.02
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
36
Incident Energy (MeV)
52-Te-138

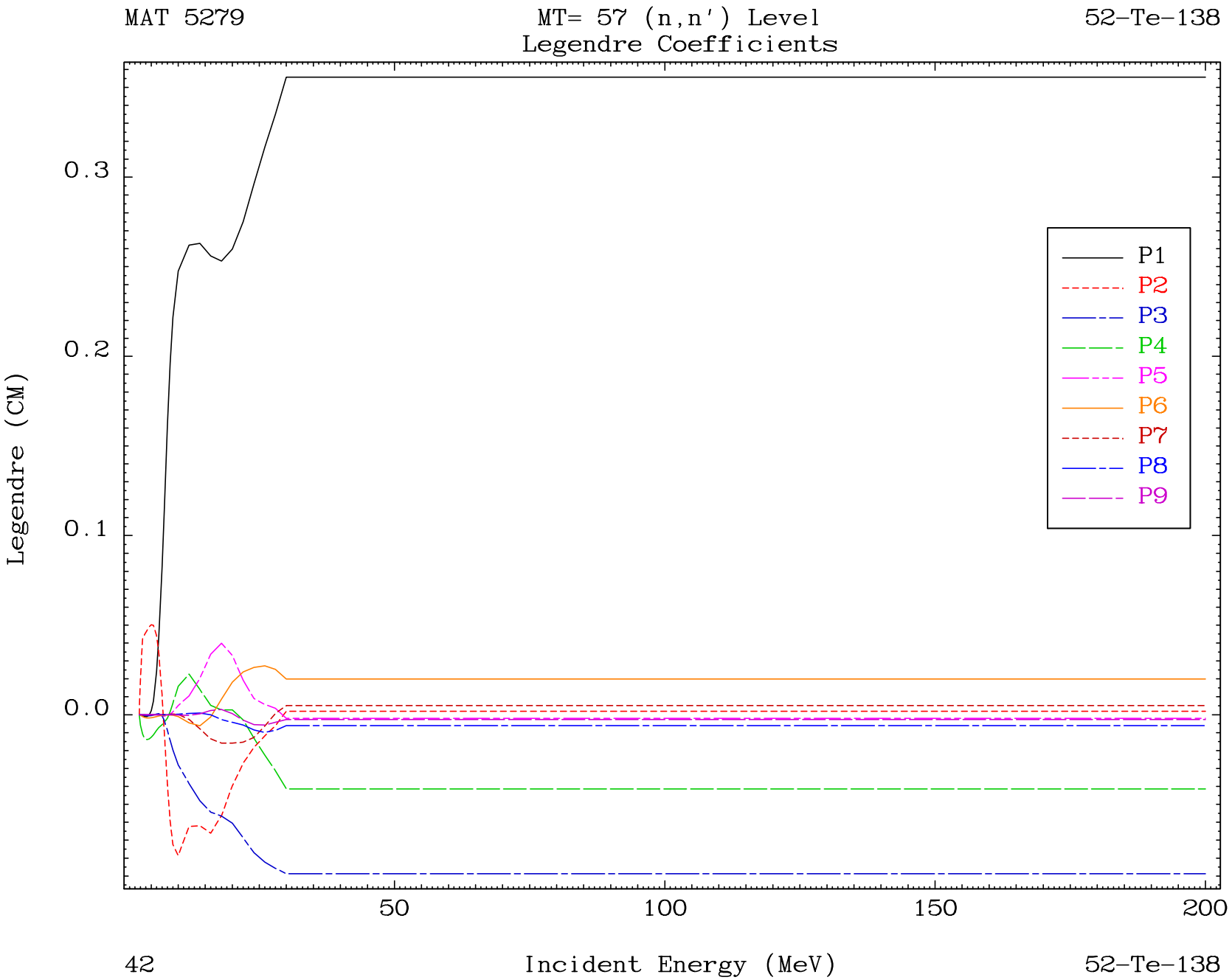

MAT 5279
MT= 55 (n,n') Level
Legendre Coefficients
52-Te-138
0.000
0.000
-0.002
-0.003
Legendre (CM)
0
50
100
150
200
37
Incident Energy (MeV)
52-Te-138
P10
P11
P12
P13
P14
P15
P16
P17
P18

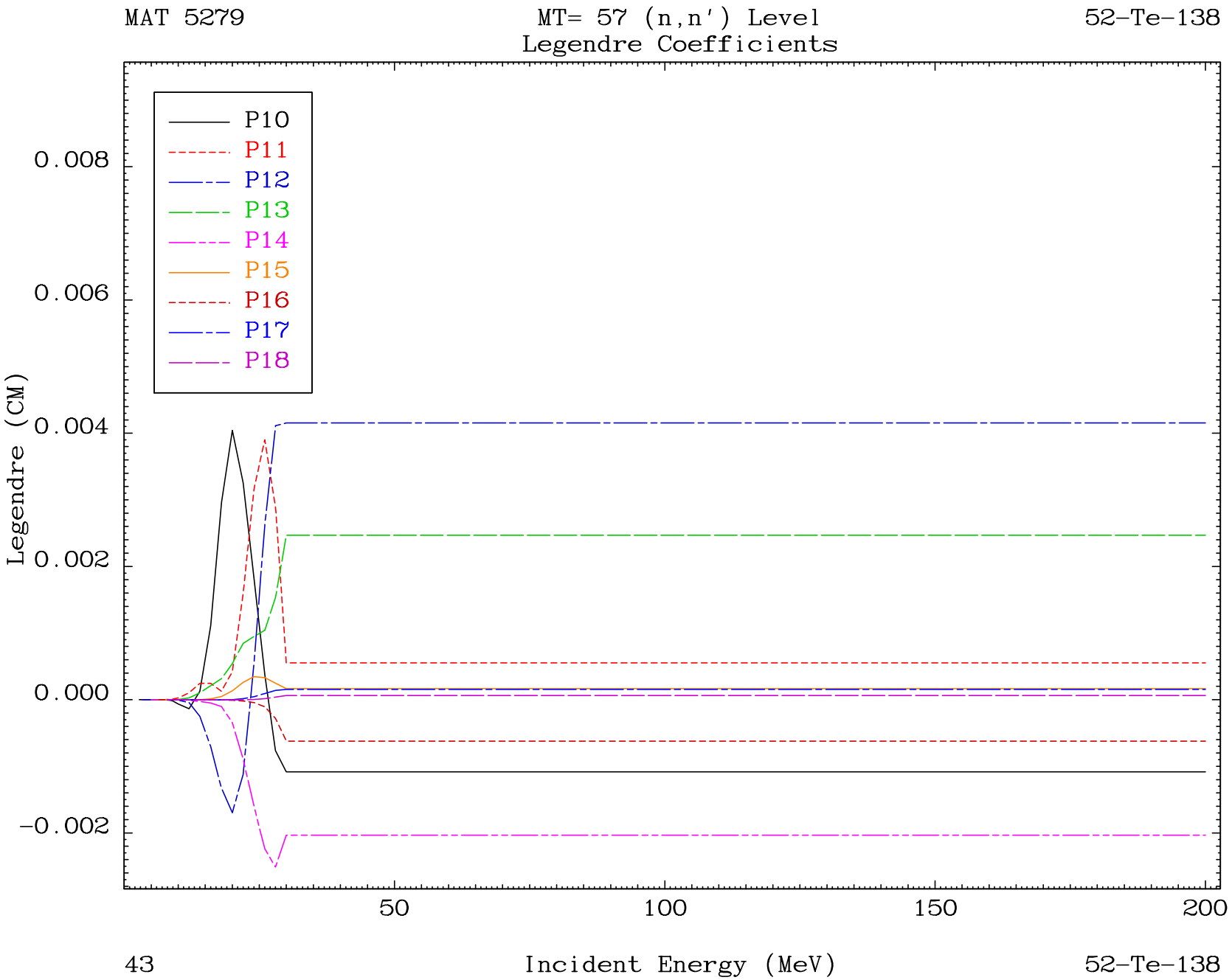

MAT 5279
MT= 55 (n,n') Level
Legendre Coefficients
52-Te-138
X10^-6
3
2
1
0
Legendre (CM)
50
100
150
200
38
Incident Energy (MeV)
52-Te-138
P19
P20
P21
P22
P23
P24
P25
P26

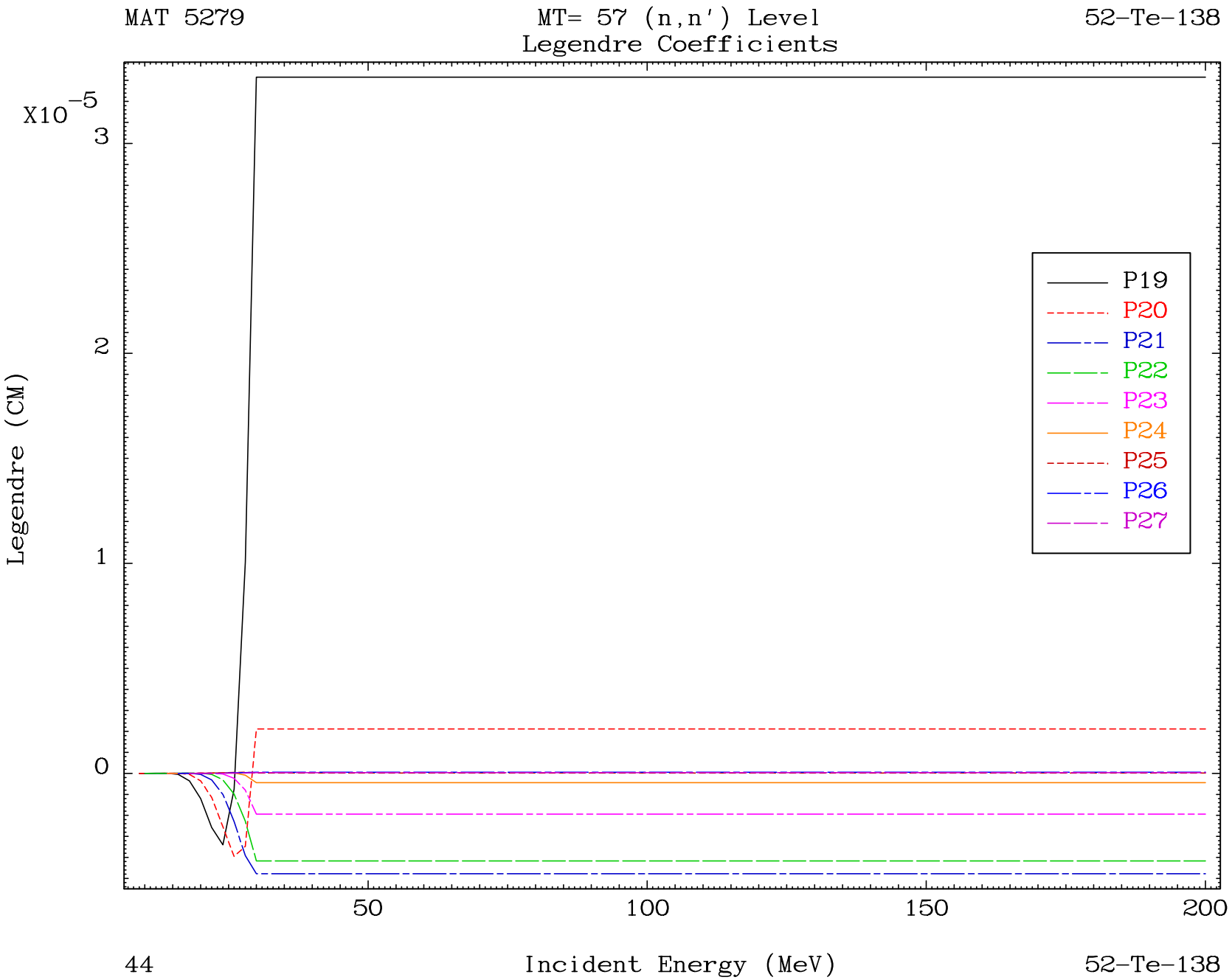

MAT 5279
MT= 56 (n,n') Level
Legendre Coefficients
52-Te-138
Legendre (CM)
0.2
0.1
0.0
-0.1
0
50
100
150
200
39
Incident Energy (MeV)
52-Te-138
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10

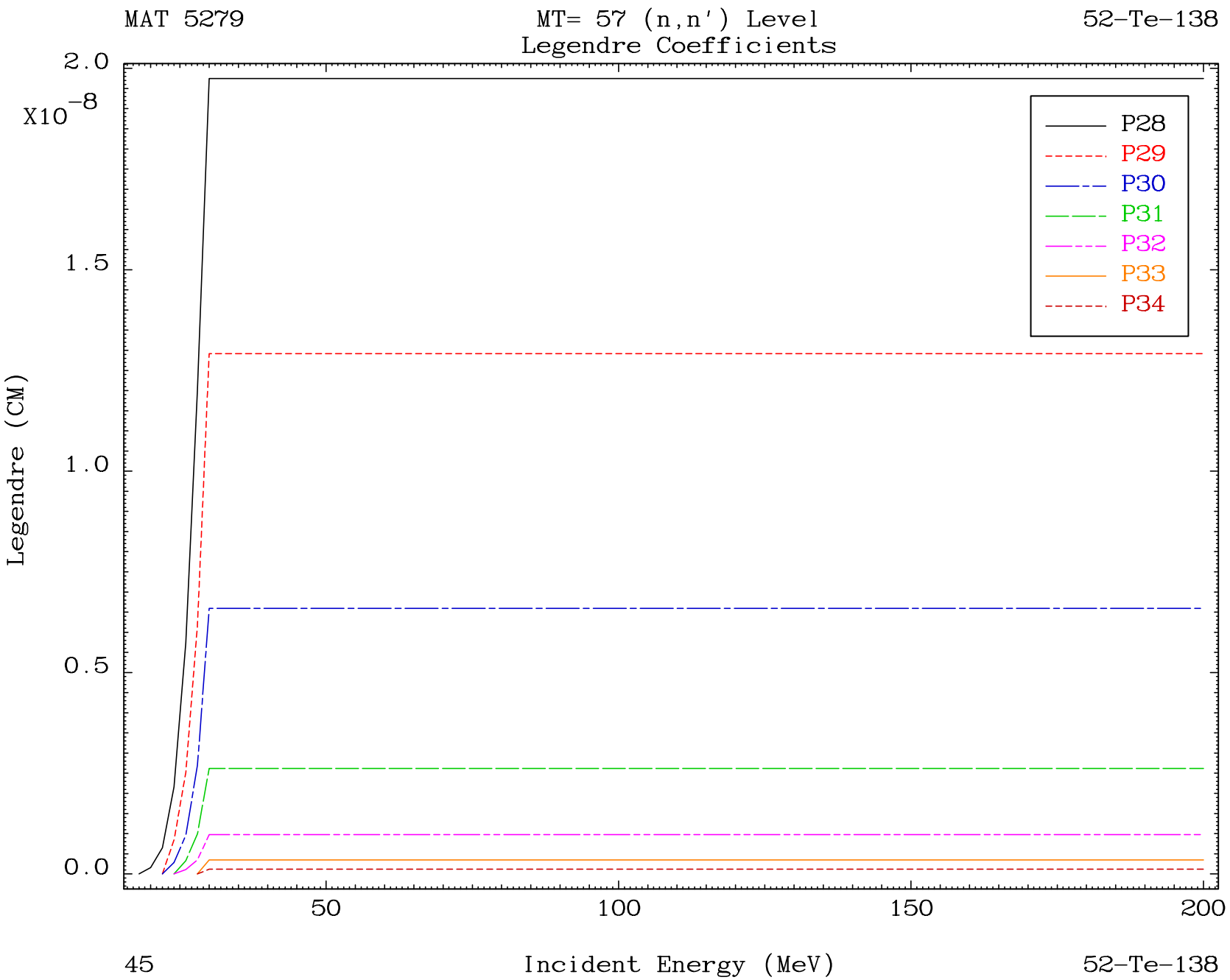

MAT 5279
MT= 56 (n,n') Level
Legendre Coefficients
52-Te-138
X10^-3
0.5
0.0
-0.5
-1.0
-1.5
-2.0
-2.5
Legendre (CM)
50
100
150
200
40
Incident Energy (MeV)
52-Te-138
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20

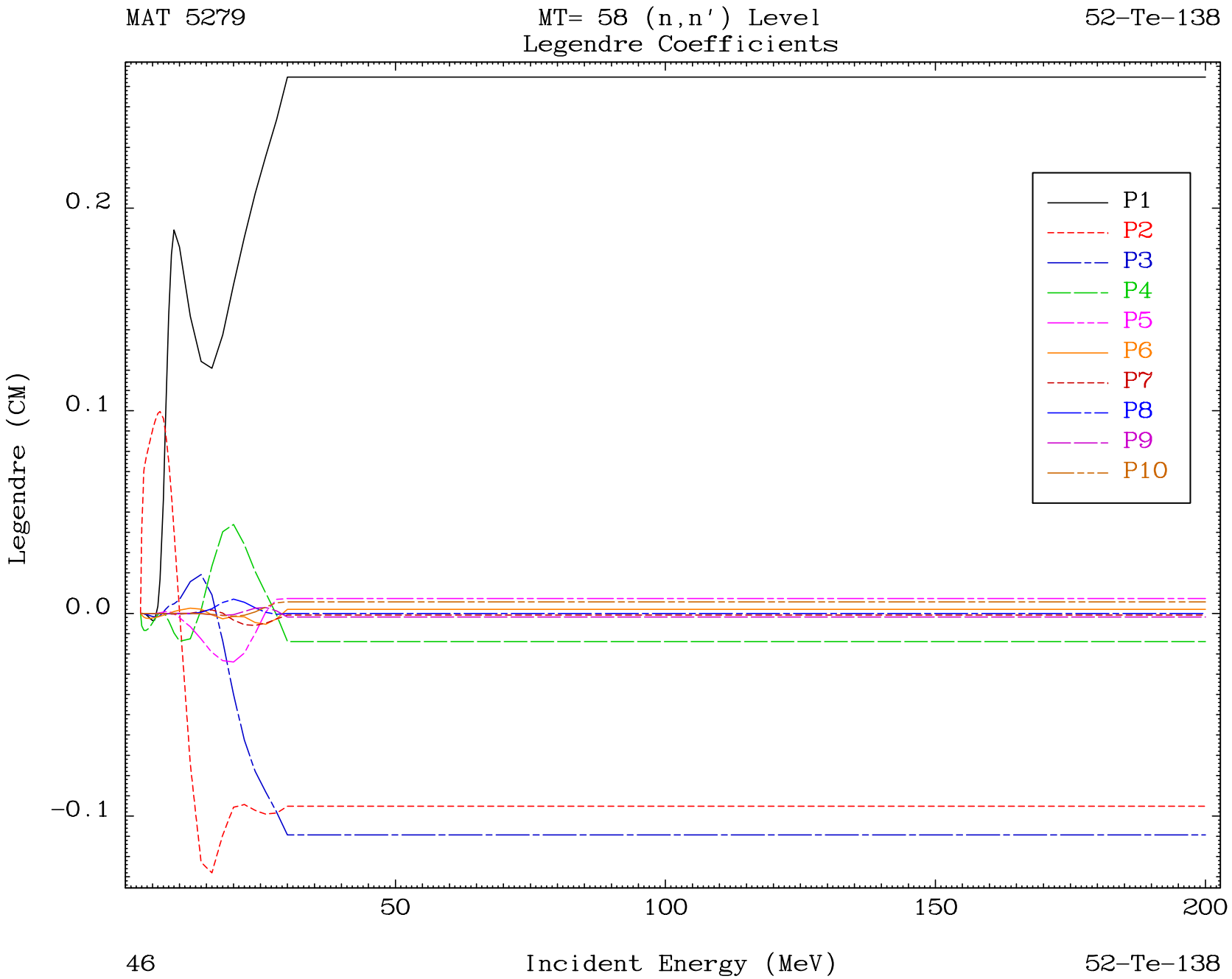

MAT 5279
MT= 56 (n,n') Level
Legendre Coefficients
52-Te-138
X10^-6
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
50
100
150
200
41
Incident Energy (MeV)
52-Te-138

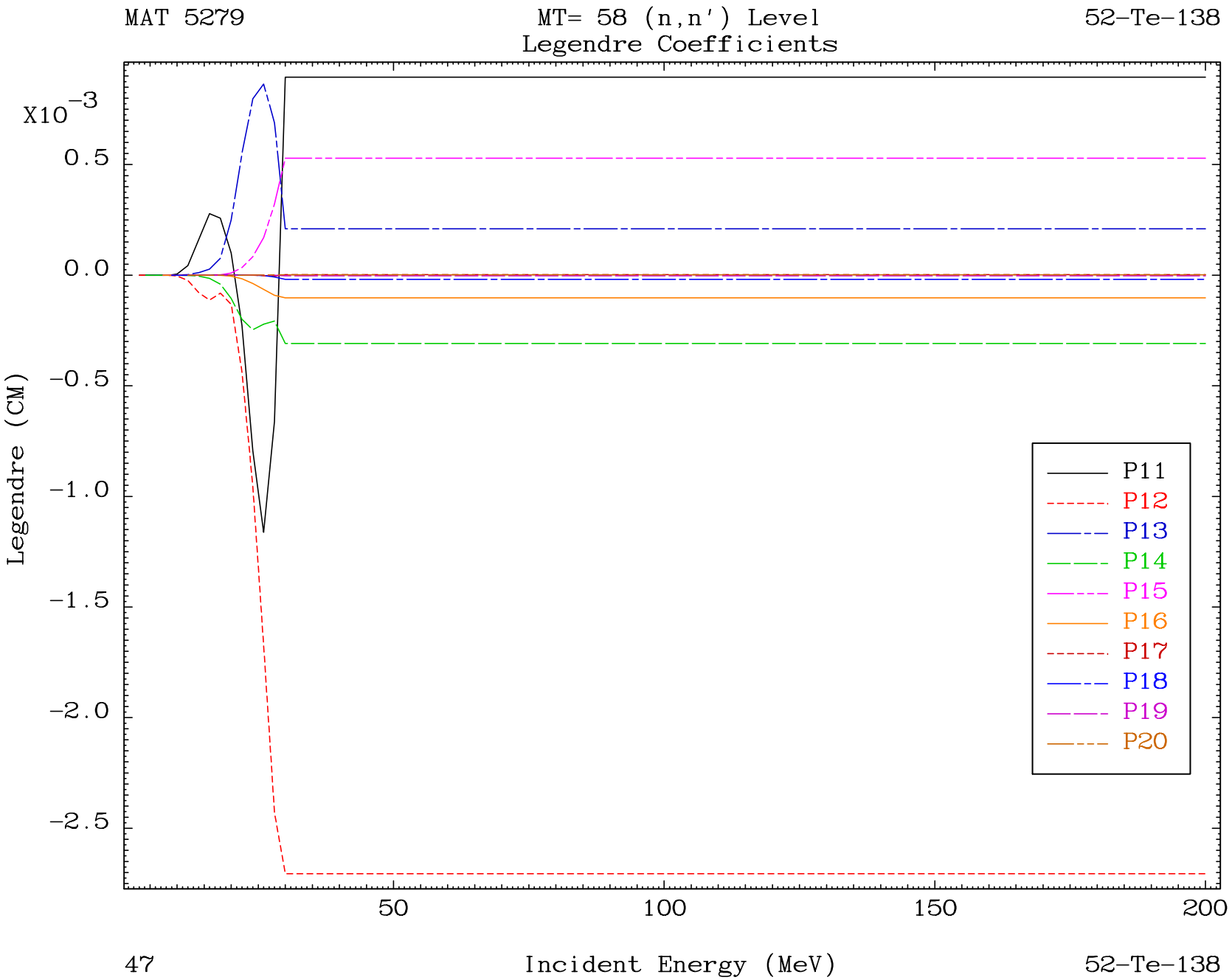

MAT 5279
MT= 57 (n,n') Level
Legendre Coefficients
52-Te-138
Legendre (CM)
0.3
0.2
0.1
0.0
50
100
150
200
Incident Energy (MeV)
42
52-Te-138
P1
P2
P3
P4
P5
P6
P7
P8
P9

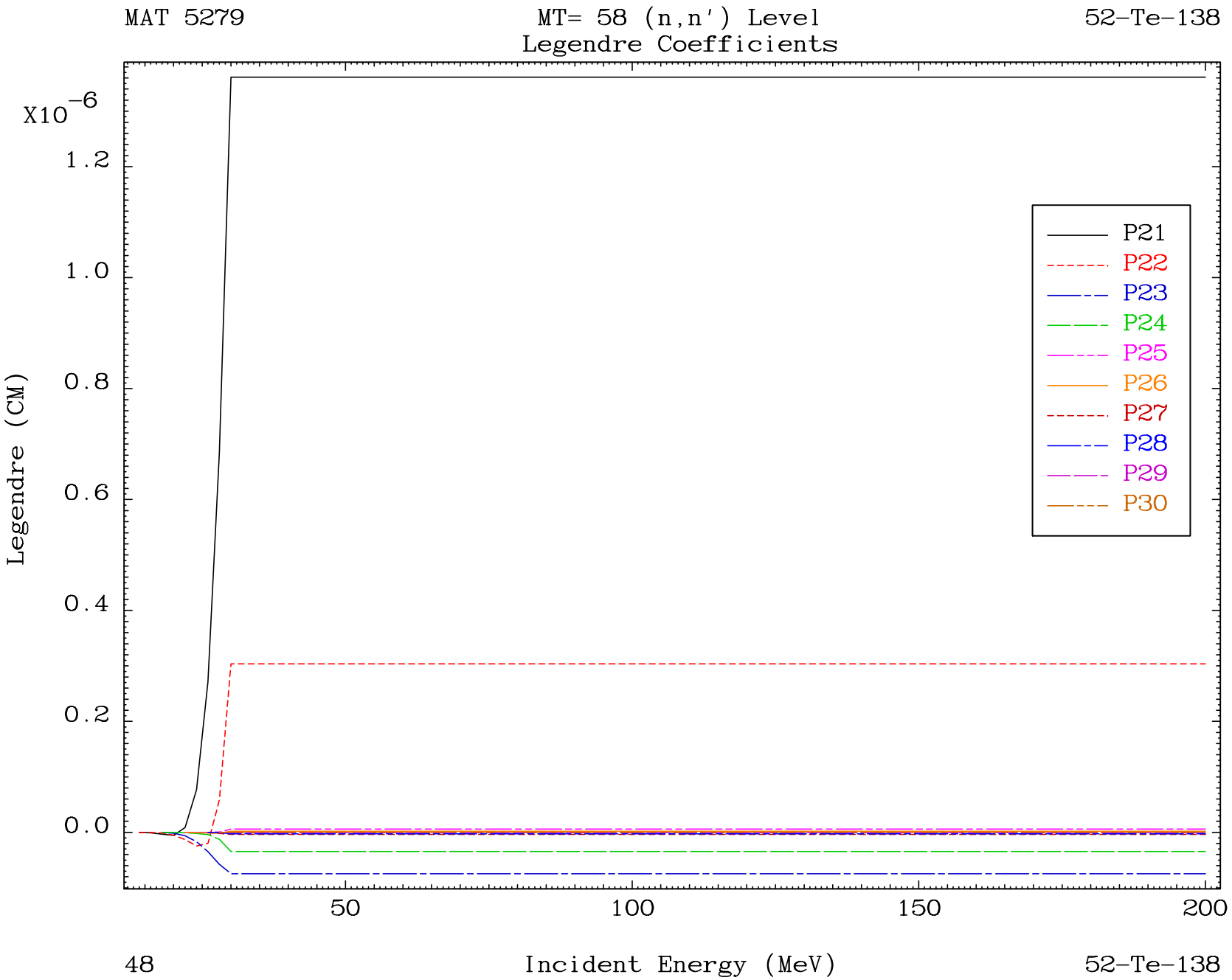

MAT 5279
MT= 57 (n,n') Level
Legendre Coefficients
52-Te-138
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.008
0.006
0.004
0.002
0.000
-0.002
Legendre (CM)
50
100
150
200
43
Incident Energy (MeV)
52-Te-138

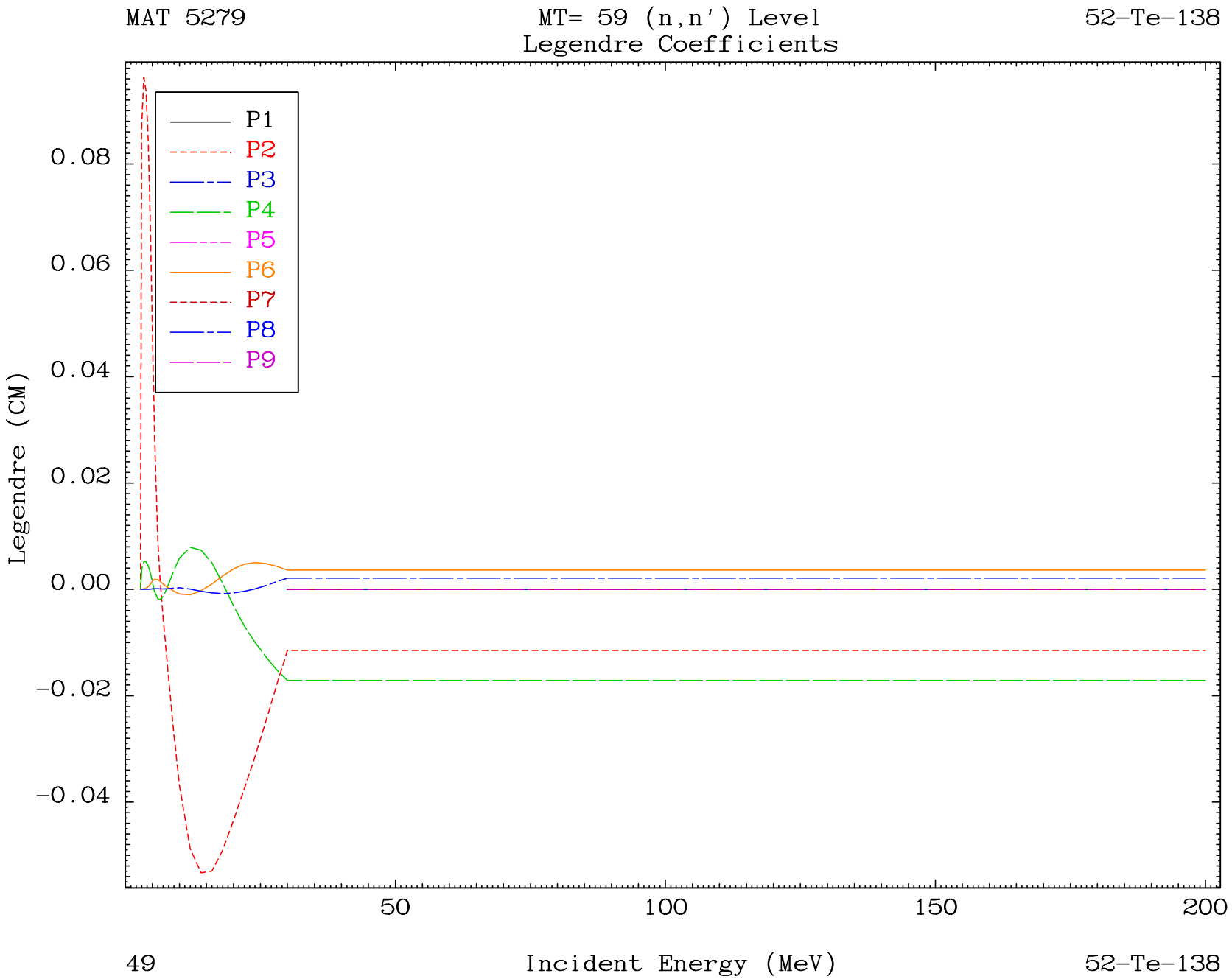

MAT 5279
MT= 57 (n,n') Level
Legendre Coefficients
52-Te-138
X10 −5
3
2
1
0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
44
Incident Energy (MeV)
52-Te-138

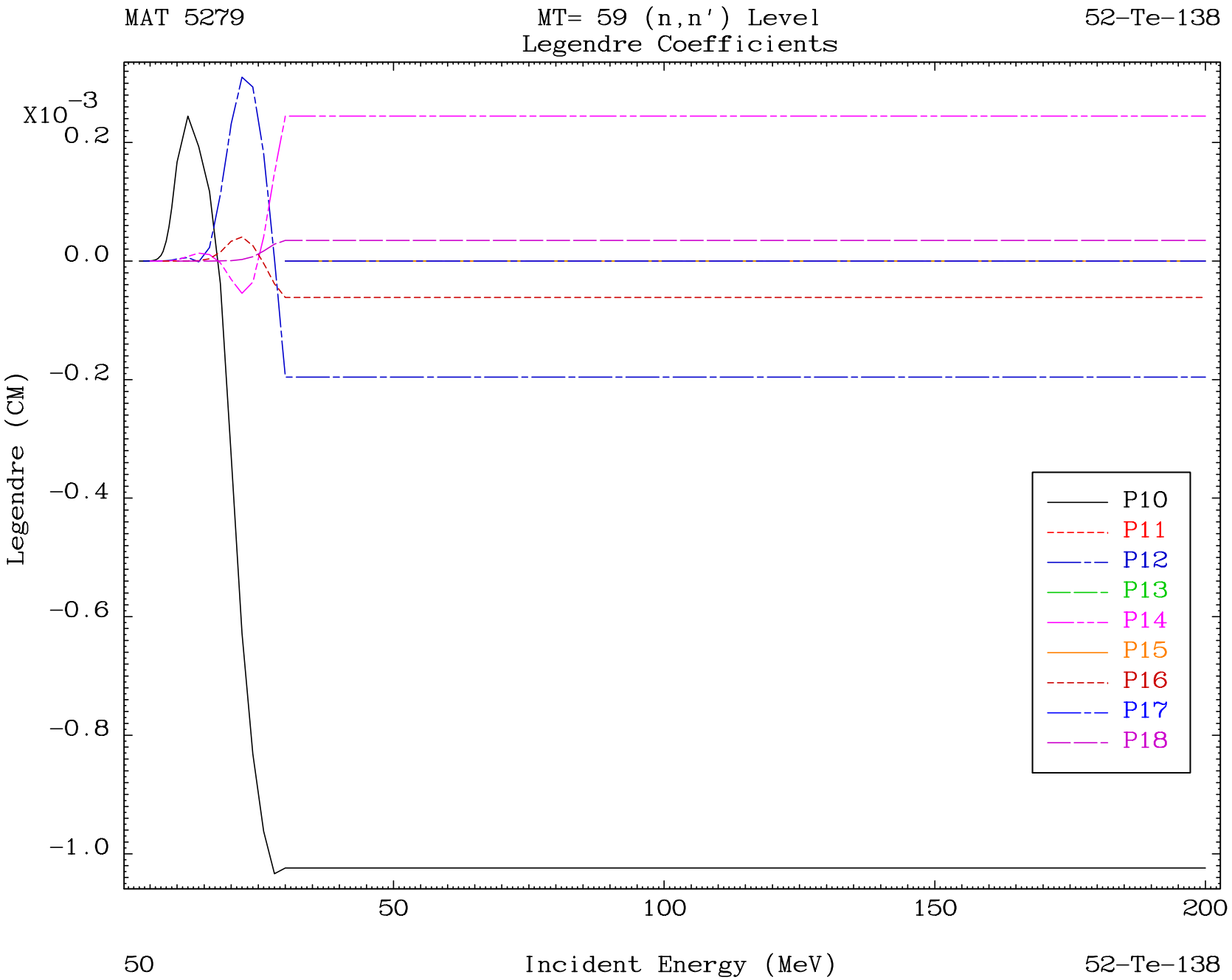

MAT 5279
MT= 57 (n,n') Level
Legendre Coefficients
52-Te-138
2.0
X10 −8
1.5
1.0
0.5
0.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
45
Incident Energy (MeV)
52-Te-138

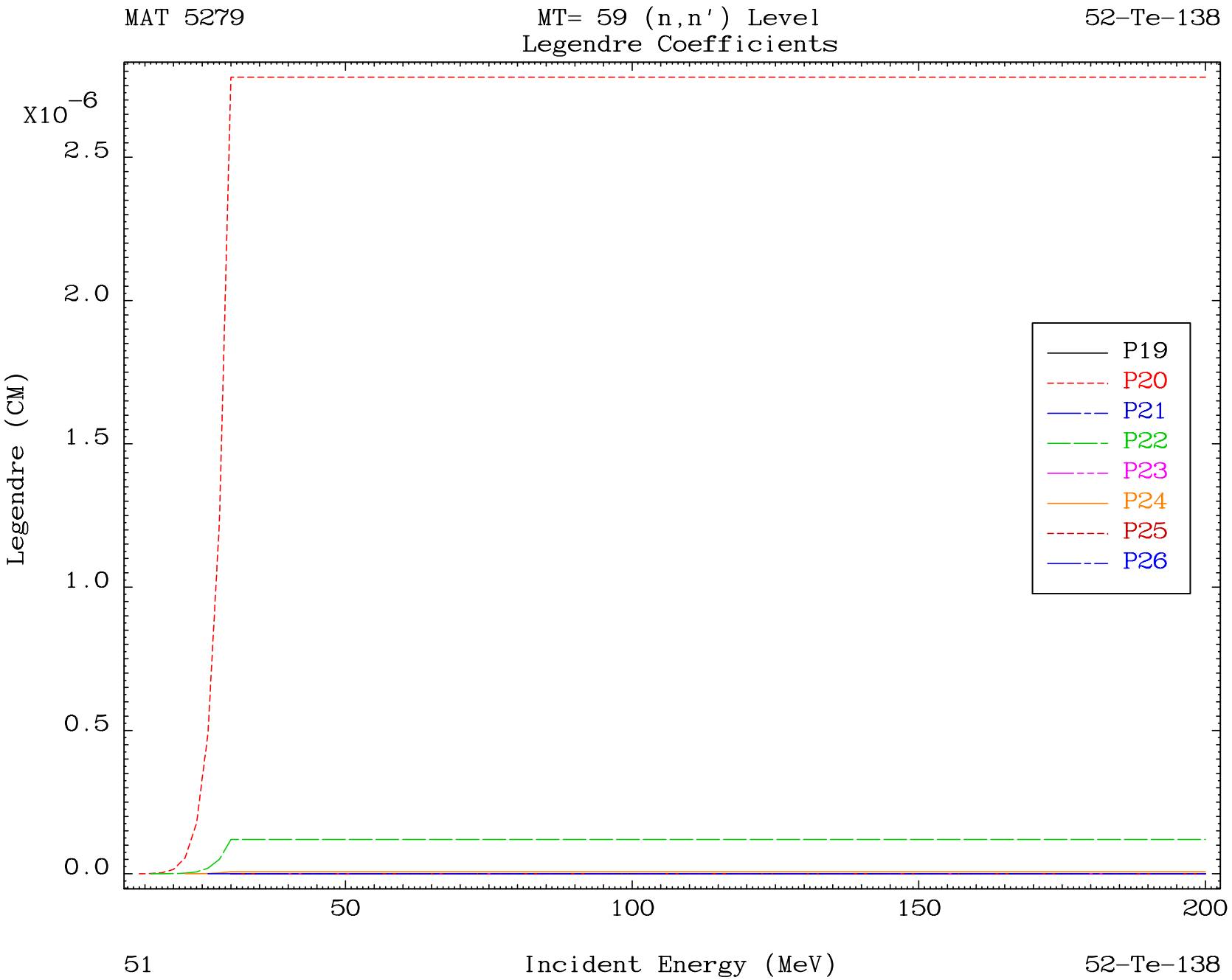

MAT 5279
MT= 58 (n,n') Level
Legendre Coefficients
52-Te-138
0.2
0.1
0.0
-0.1
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
50
100
150
200
46
Incident Energy (MeV)
52-Te-138

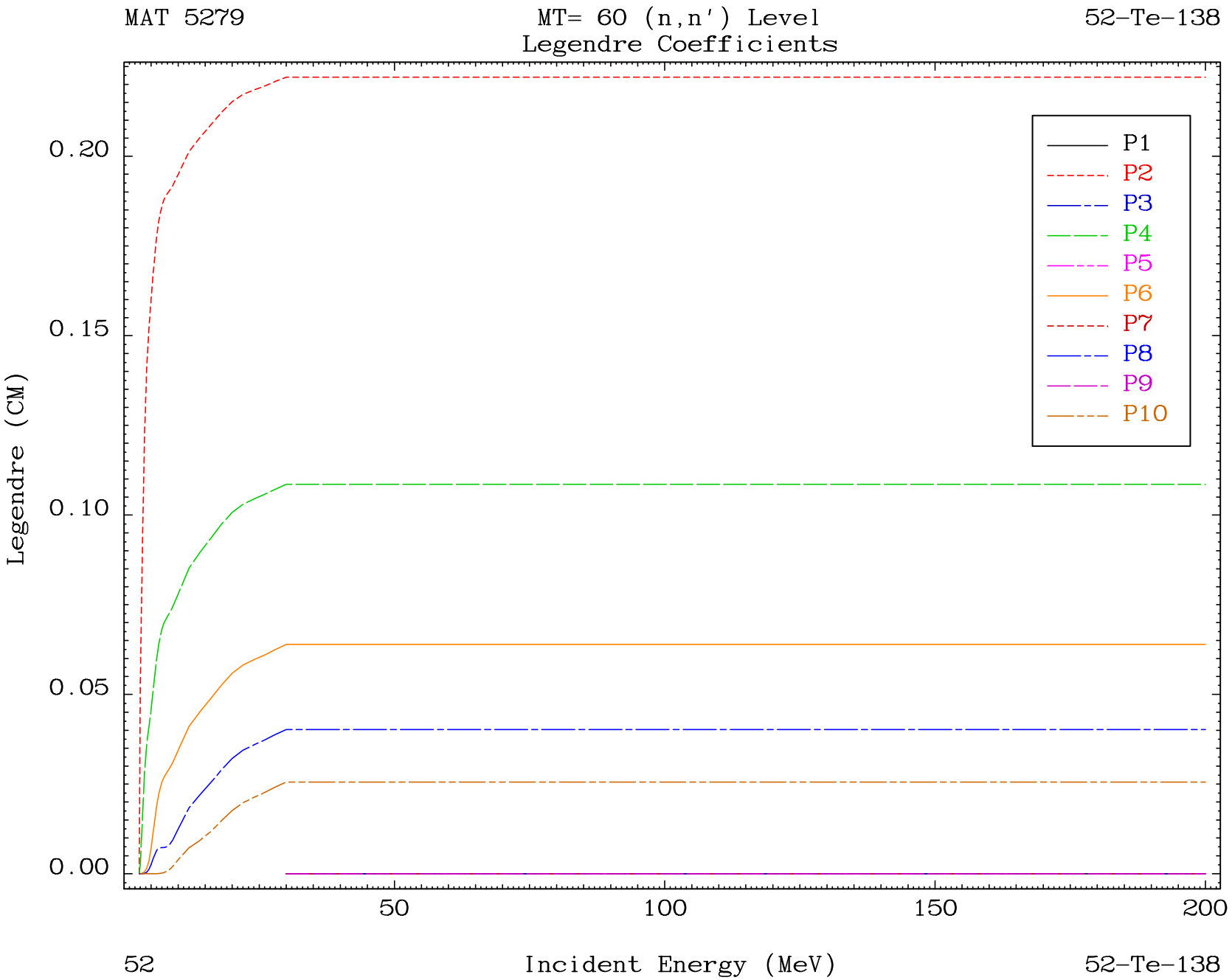

MAT 5279
MT= 58 (n,n') Level
Legendre Coefficients
52-Te-138
X10^-3
0.5
0.0
-0.5
-1.0
-1.5
-2.0
-2.5
Legendre (CM)
50
100
150
200
47
Incident Energy (MeV)
52-Te-138
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20

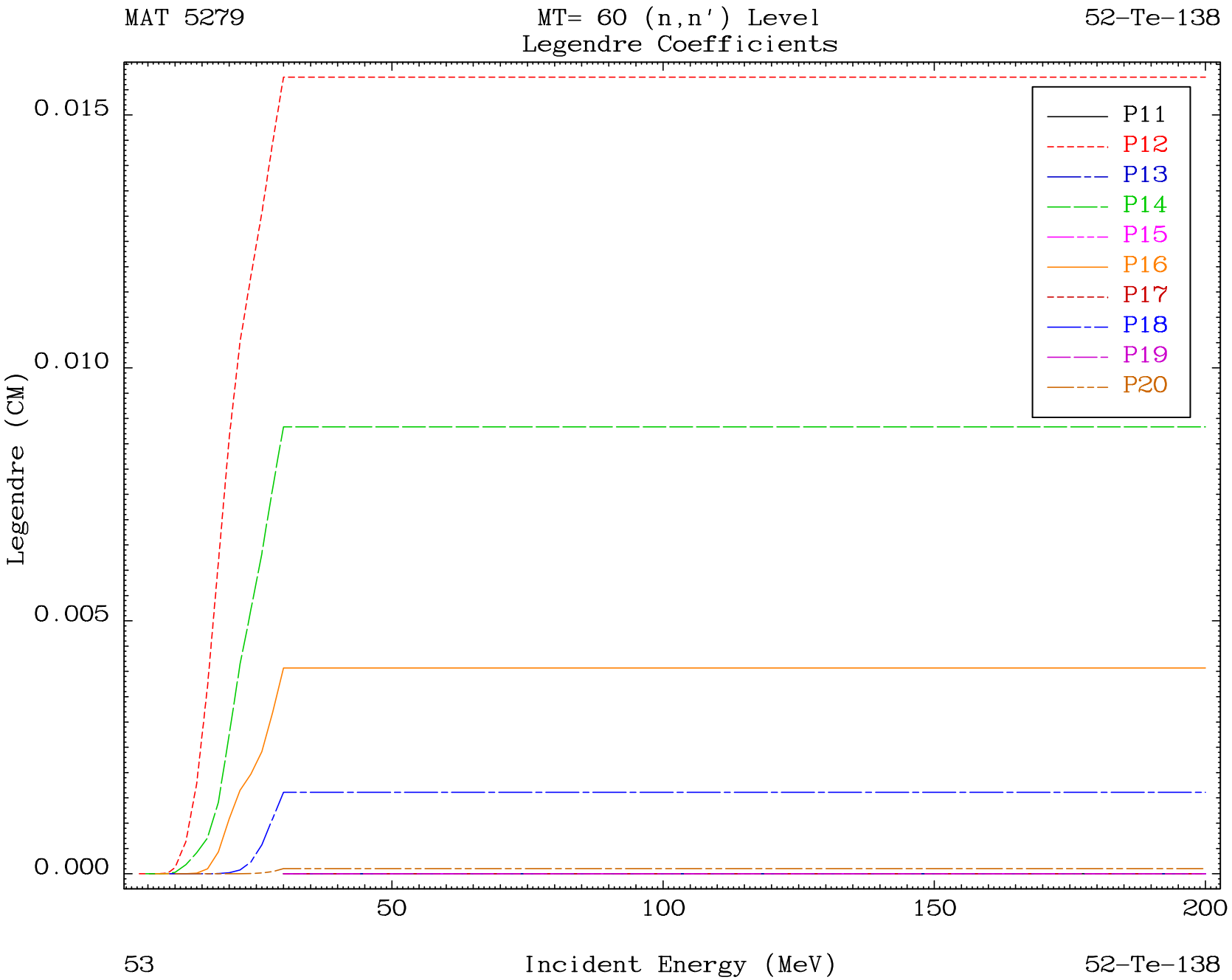

MAT 5279
MT= 58 (n,n') Level
Legendre Coefficients
52-Te-138
X10^-6
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
50
100
150
200
48
Incident Energy (MeV)
52-Te-138

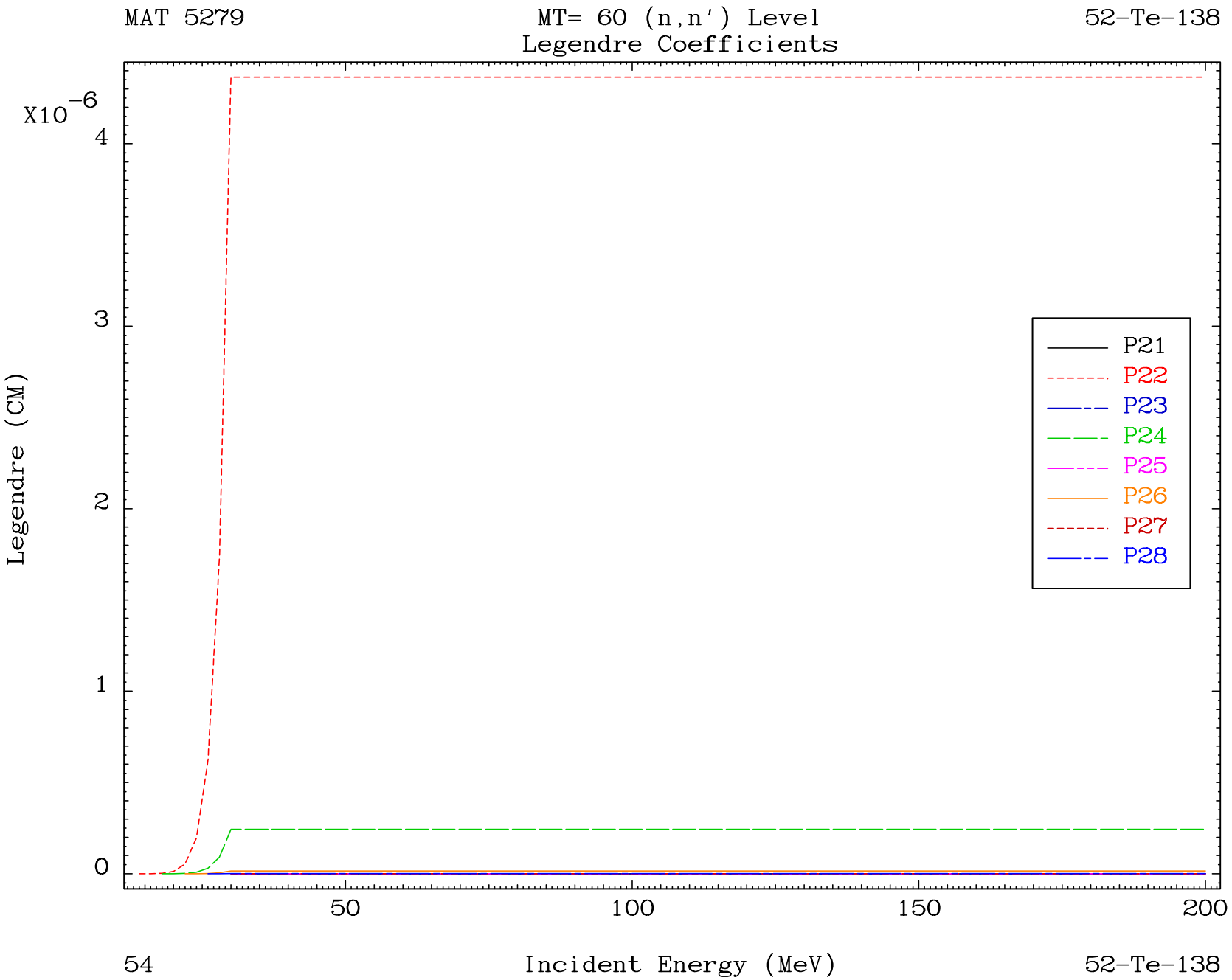

MAT 5279
MT= 59 (n,n') Level
Legendre Coefficients
52-Te-138
P1
P2
P3
P4
P5
P6
P7
P8
P9
0.08
0.06
0.04
0.02
0.00
-0.02
-0.04
Legendre (CM)
50
100
150
200
49
Incident Energy (MeV)
52-Te-138

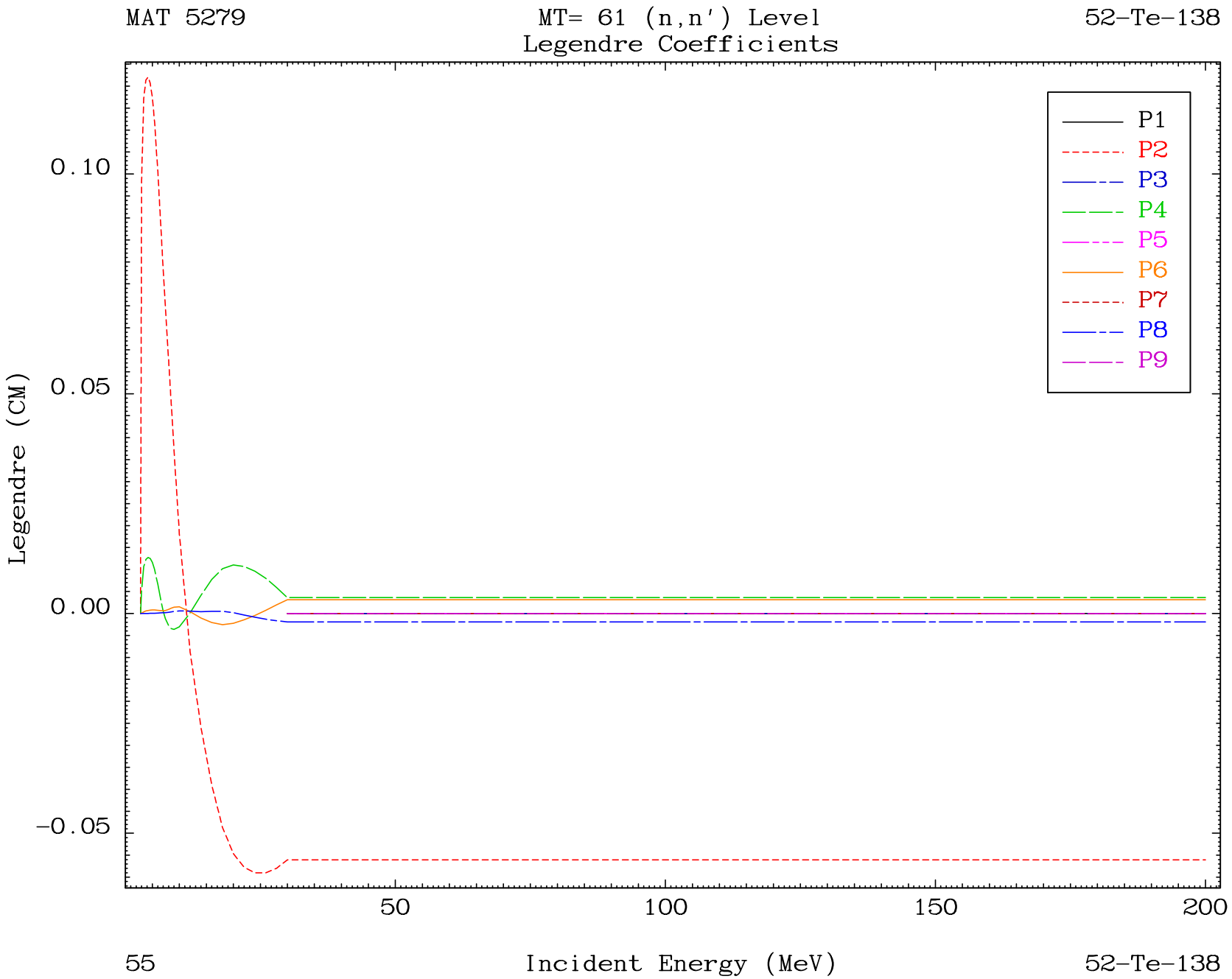

MAT 5279
MT= 59 (n,n') Level
Legendre Coefficients
52-Te-138
X10^-3
0.2
0.0
-0.2
-0.4
-0.6
-0.8
-1.0
Legendre (CM)
50
100
150
200
Incident Energy (MeV)
50
52-Te-138
P10
P11
P12
P13
P14
P15
P16
P17
P18

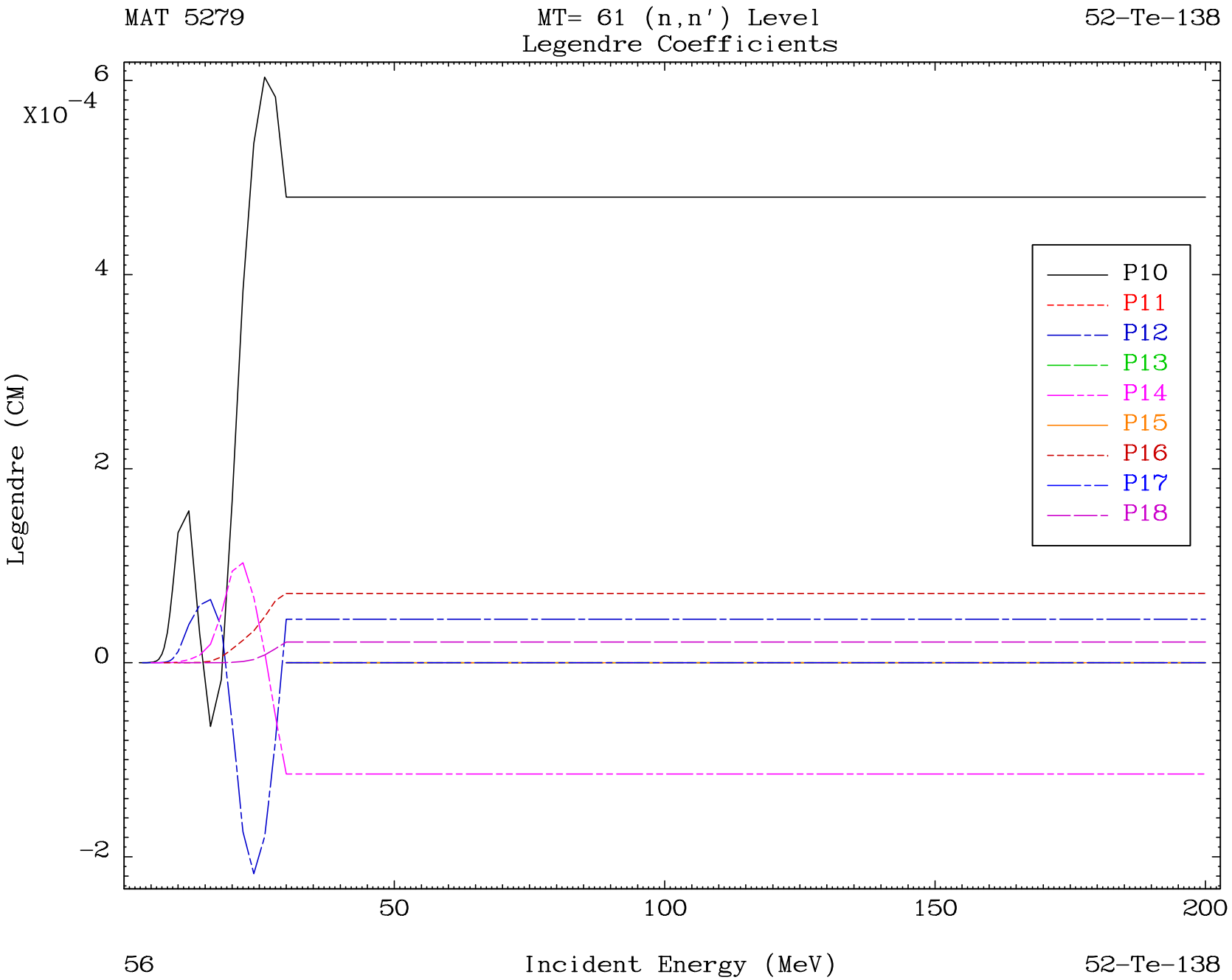

MAT 5279
MT= 59 (n,n') Level
Legendre Coefficients
52-Te-138
X10^-6
2.5
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
50
100
150
200
P19
P20
P21
P22
P23
P24
P25
P26
51
Incident Energy (MeV)
52-Te-138

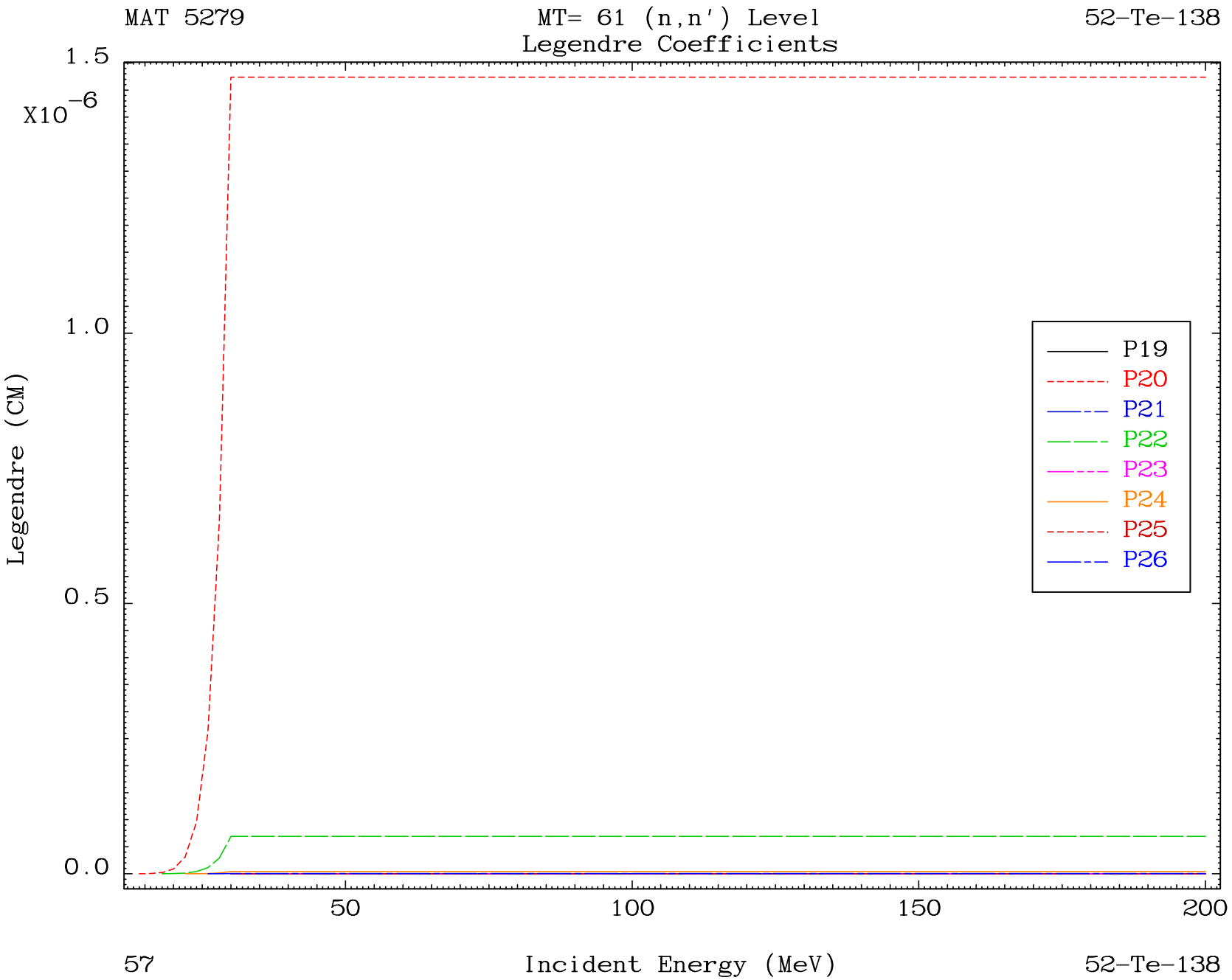

MAT 5279
MT= 60 (n,n') Level
Legendre Coefficients
52-Te-138
Legendre (CM)
0.20
0.15
0.10
0.05
0.00
50
100
150
200
52
Incident Energy (MeV)
52-Te-138
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10

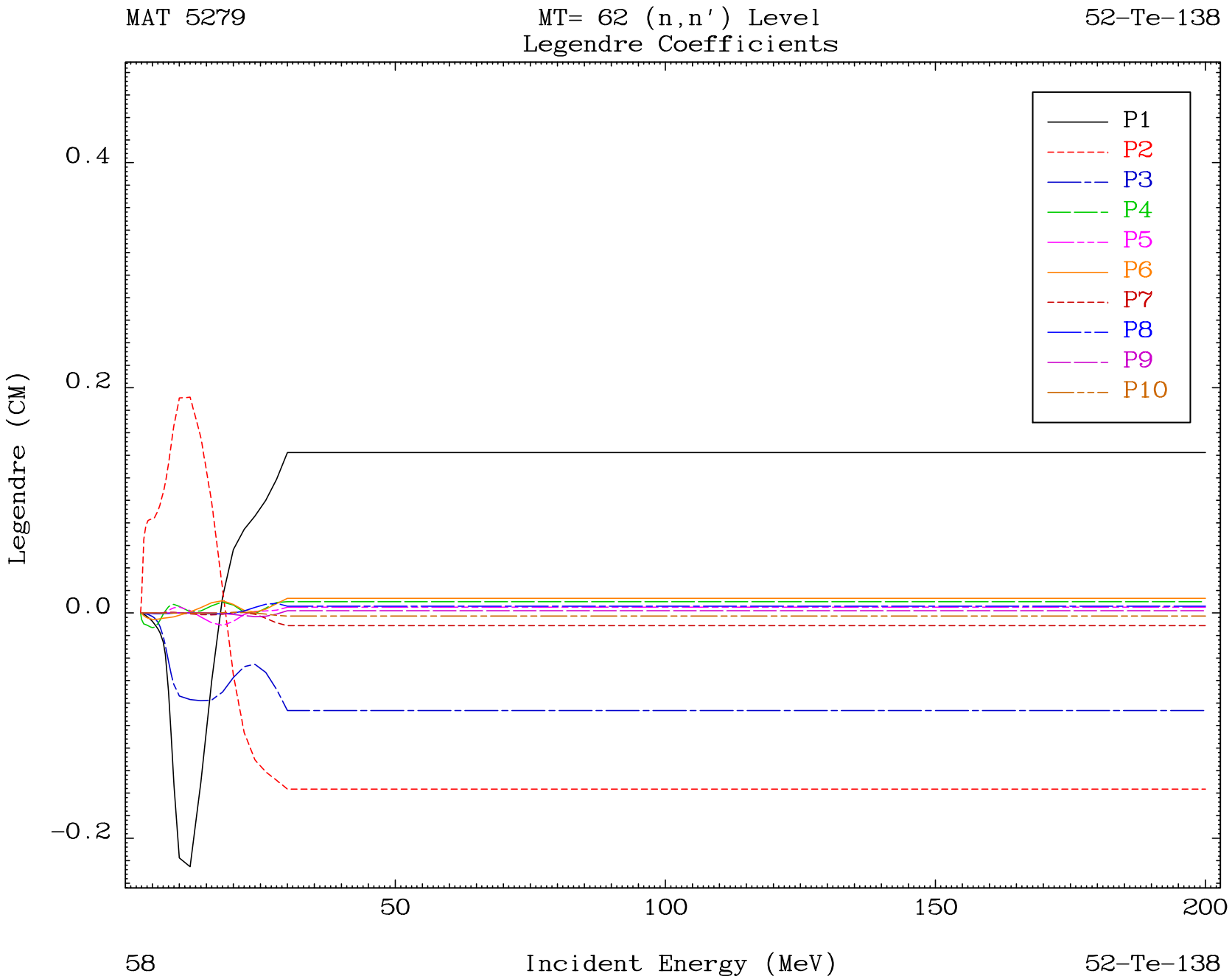

MAT 5279
MT= 60 (n,n') Level
Legendre Coefficients
52-Te-138
0.015
0.010
0.005
0.000
Legendre (CM)
50
100
150
200
53
Incident Energy (MeV)
52-Te-138
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20

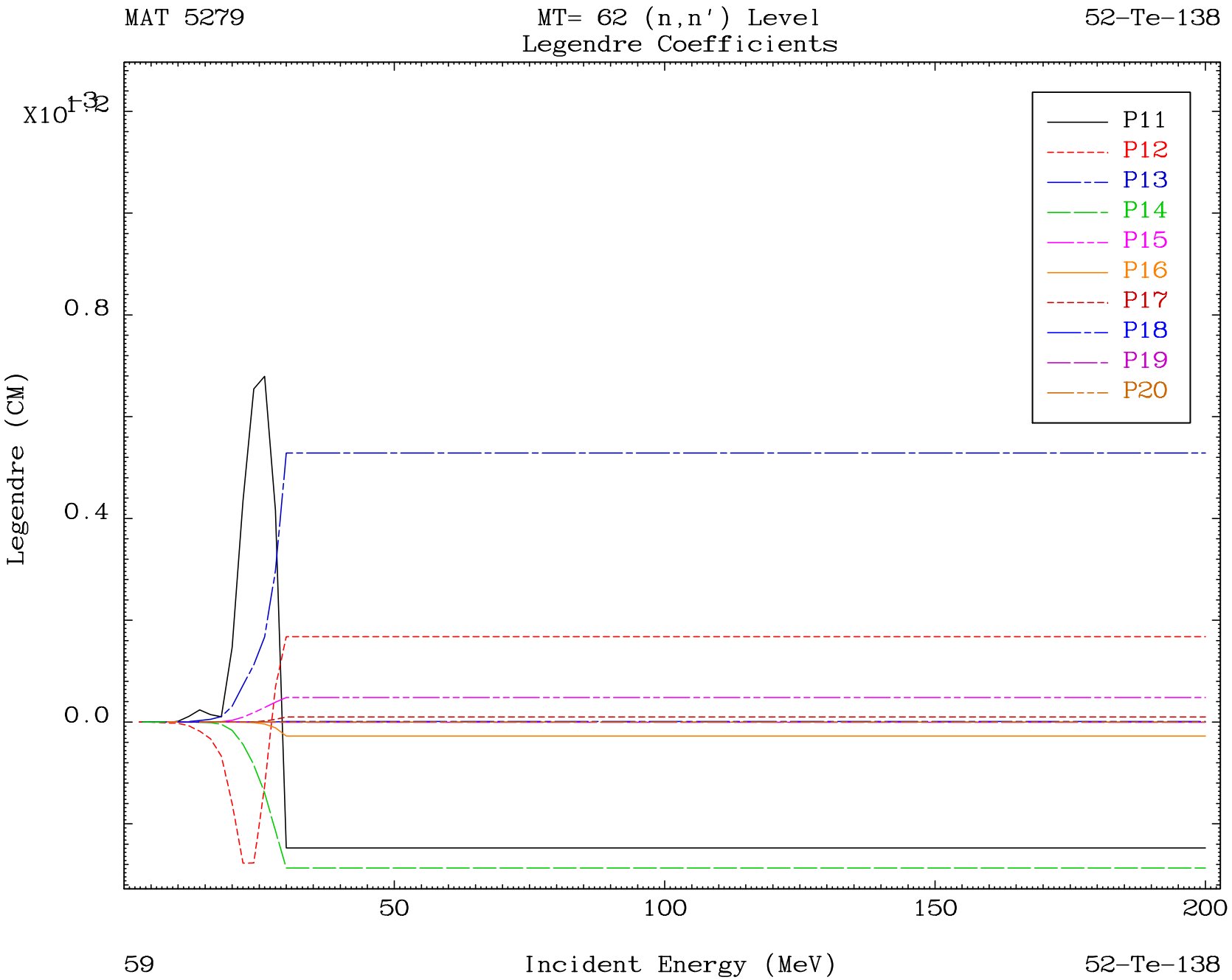

MAT 5279
MT= 60 (n,n') Level
Legendre Coefficients
52-Te-138
X10 −6
4
3
2
1
0
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
50
100
150
200
54
Incident Energy (MeV)
52-Te-138

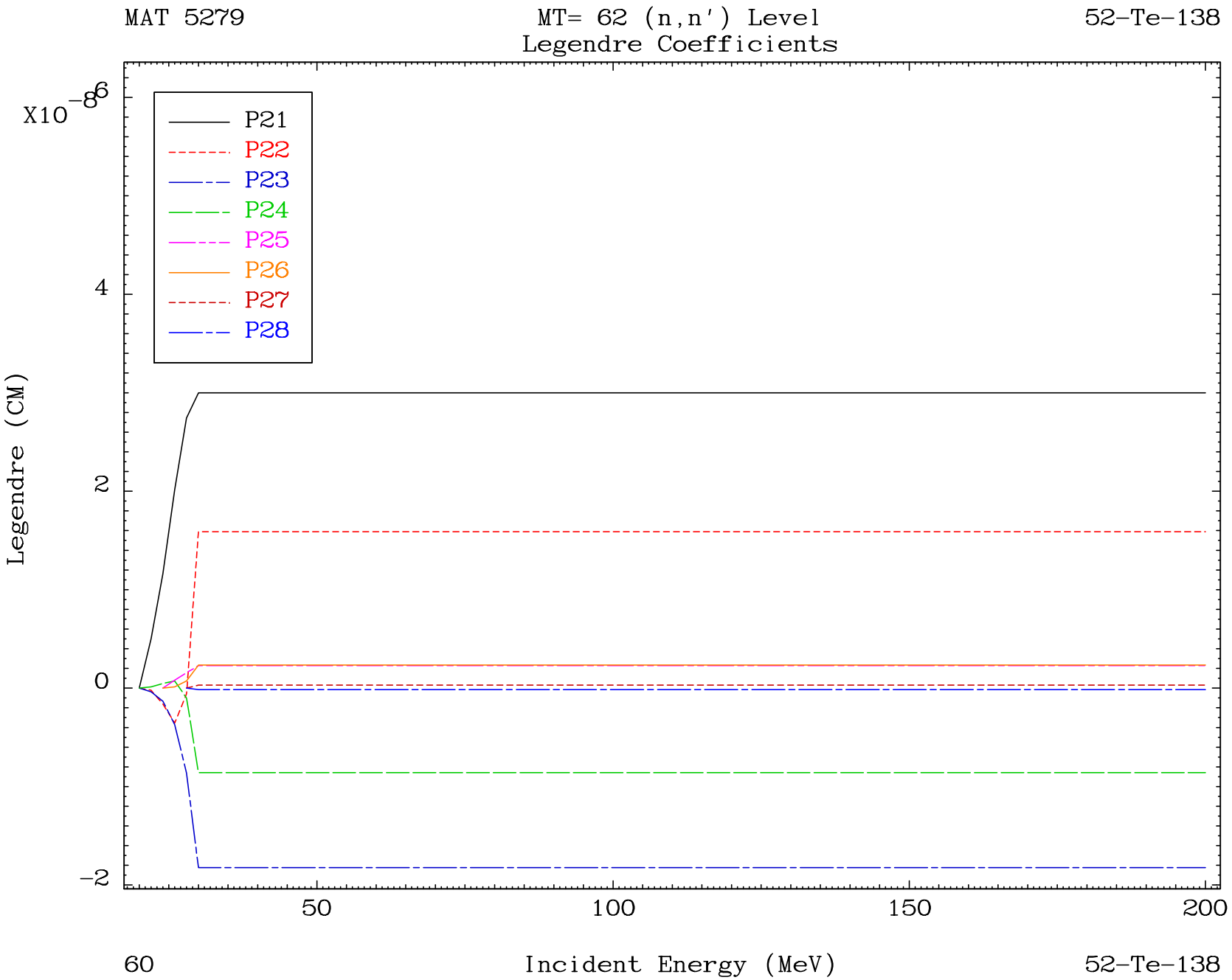

MAT 5279
MT= 61 (n,n') Level
Legendre Coefficients
52-Te-138
P1
P2
P3
P4
P5
P6
P7
P8
P9
0.10
0.05
0.00
-0.05
Legendre (CM)
50
100
150
200
55
Incident Energy (MeV)
52-Te-138

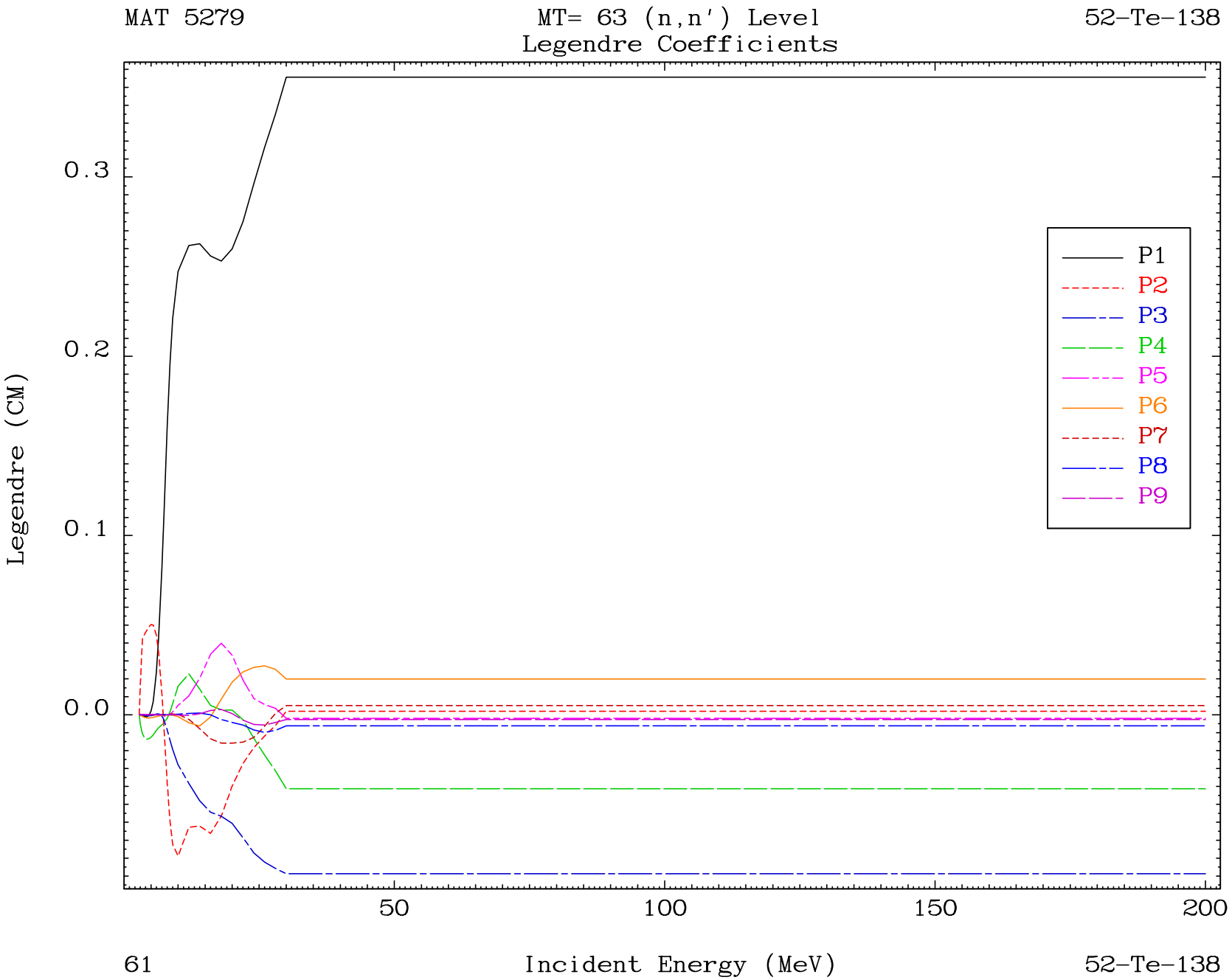

MAT 5279
MT= 61 (n,n') Level
Legendre Coefficients
52-Te-138
X10 -4
6
4
2
0
-2
Legendre (CM)
50
100
150
200
56
Incident Energy (MeV)
52-Te-138
P10
P11
P12
P13
P14
P15
P16
P17
P18

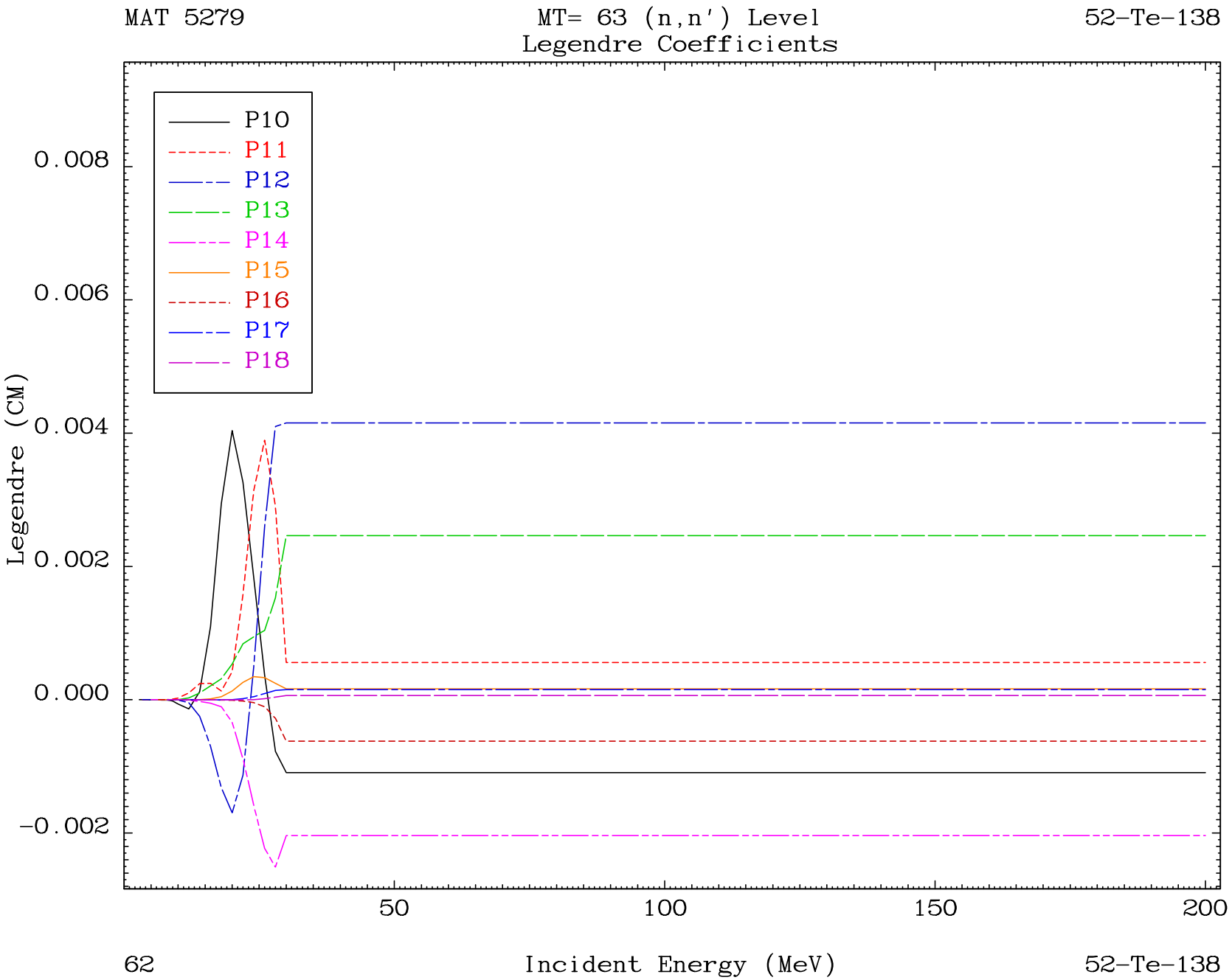

MAT 5279
MT= 61 (n,n') Level
Legendre Coefficients
52-Te-138
1.5
X10−6
1.0
0.5
0.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
50
100
150
200
57
Incident Energy (MeV)
52-Te-138

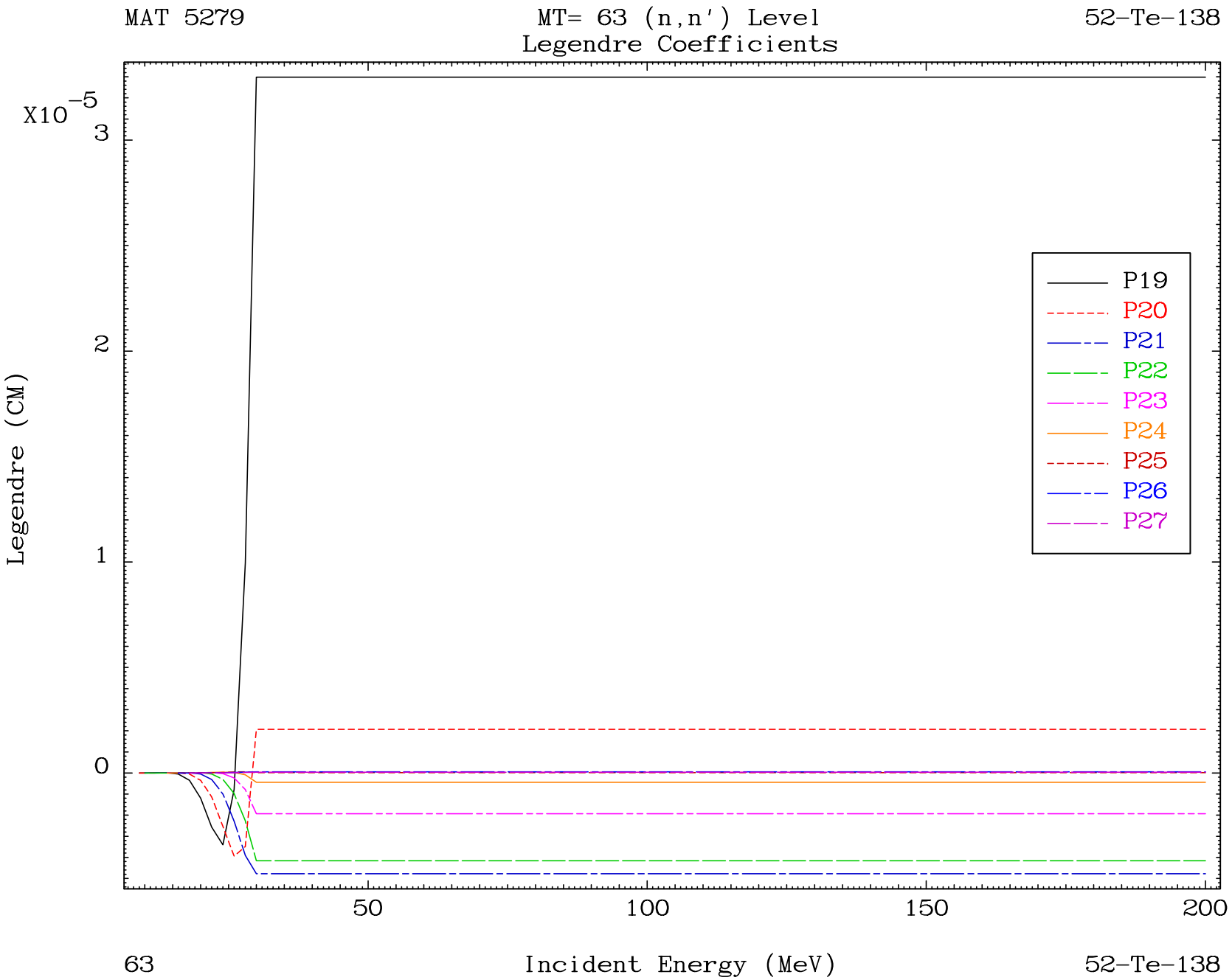

MAT 5279
MT= 62 (n,n') Level
Legendre Coefficients
52-Te-138
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
0.4
0.2
0.0
-0.2
Legendre (CM)
50
100
150
200
58
Incident Energy (MeV)
52-Te-138

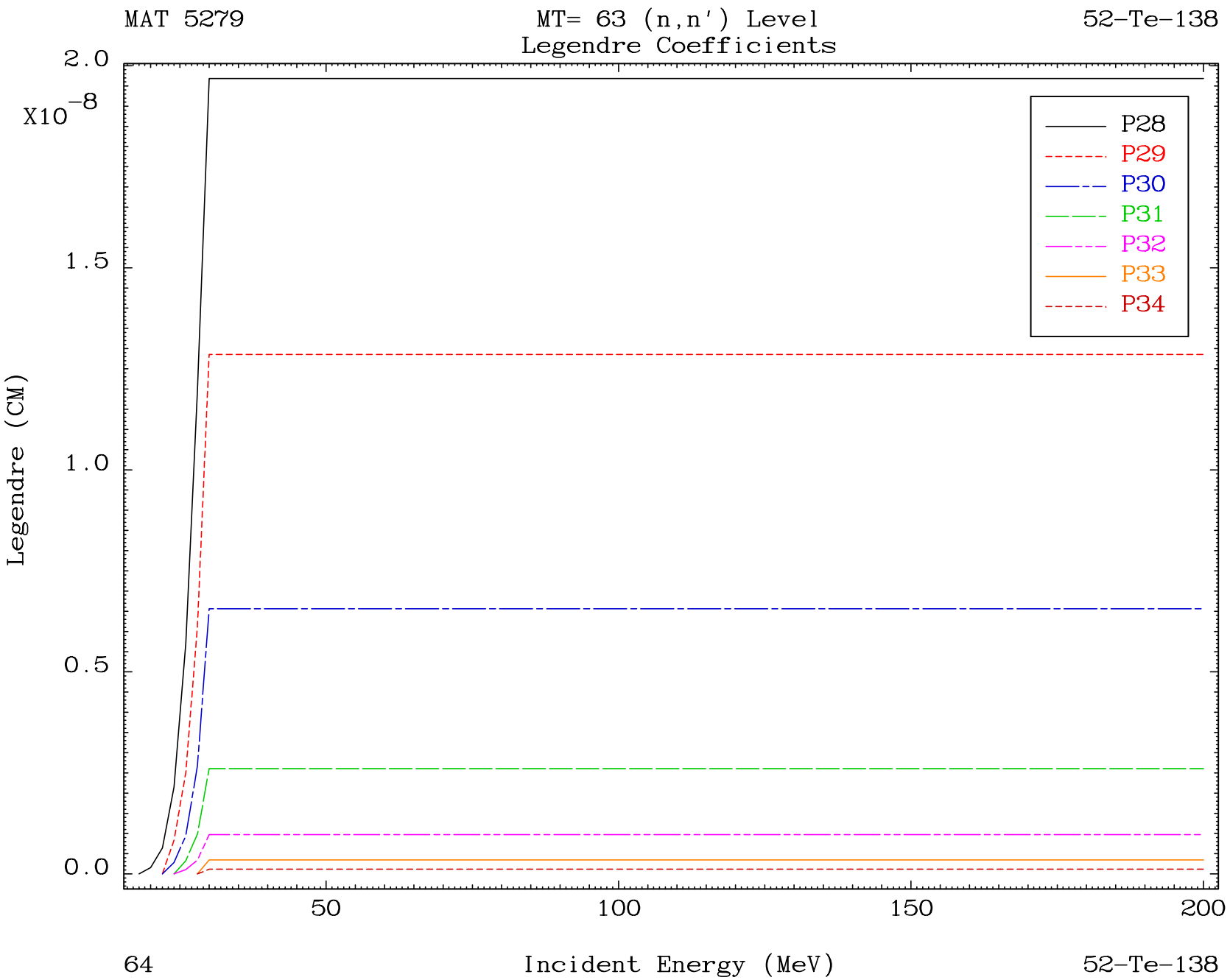

MAT 5279
MT= 62 (n,n') Level
Legendre Coefficients
52-Te-138
X10+3
2
0.8
0.4
0.0
Legendre (CM)
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
50
100
150
200
59
Incident Energy (MeV)
52-Te-138

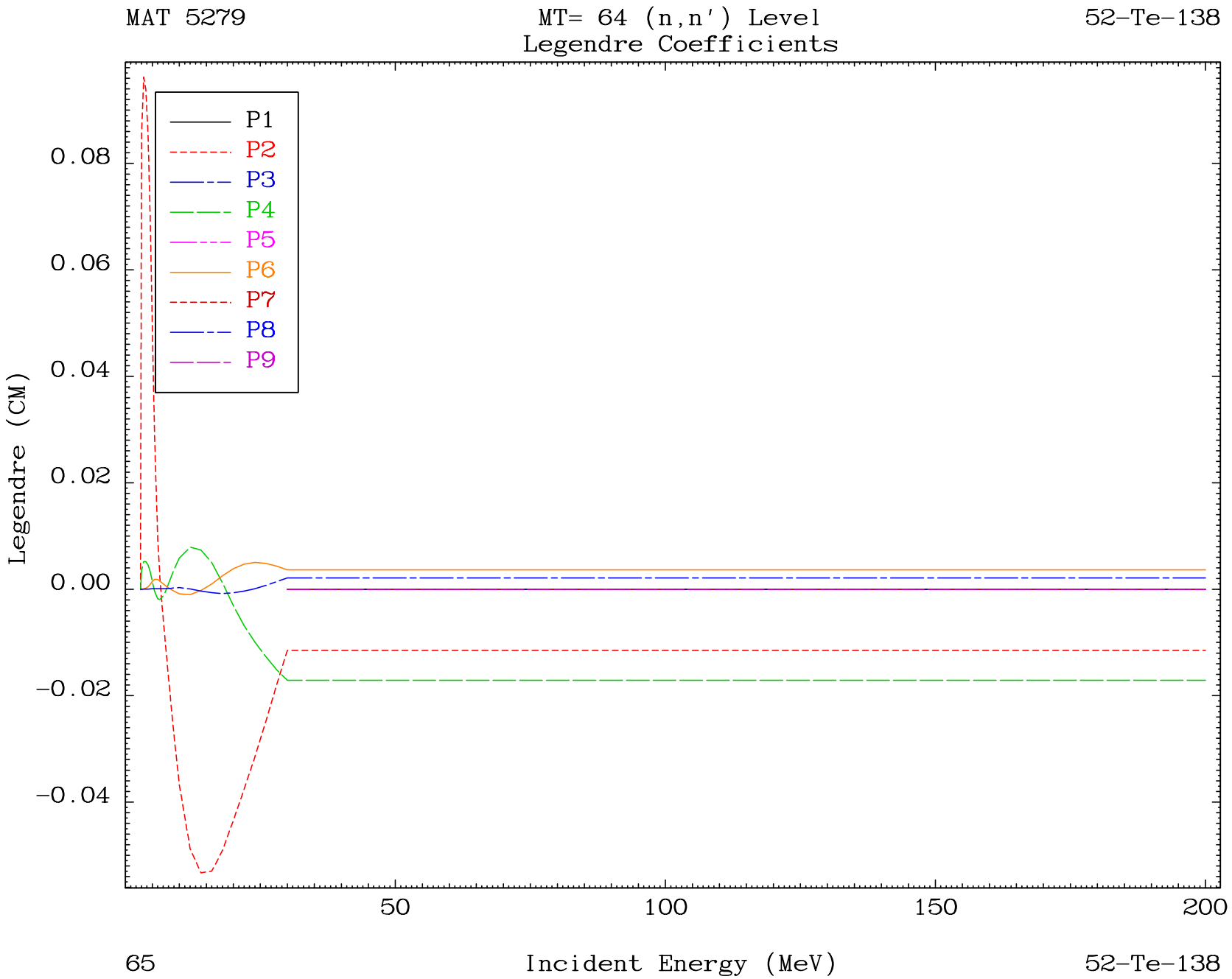

MAT 5279
MT= 62 (n,n') Level
Legendre Coefficients
52-Te-138
X10 -8
6
4
2
0
-2
P21
P22
P23
P24
P25
P26
P27
P28
Legendre (CM)
50
100
150
200
60
Incident Energy (MeV)
52-Te-138

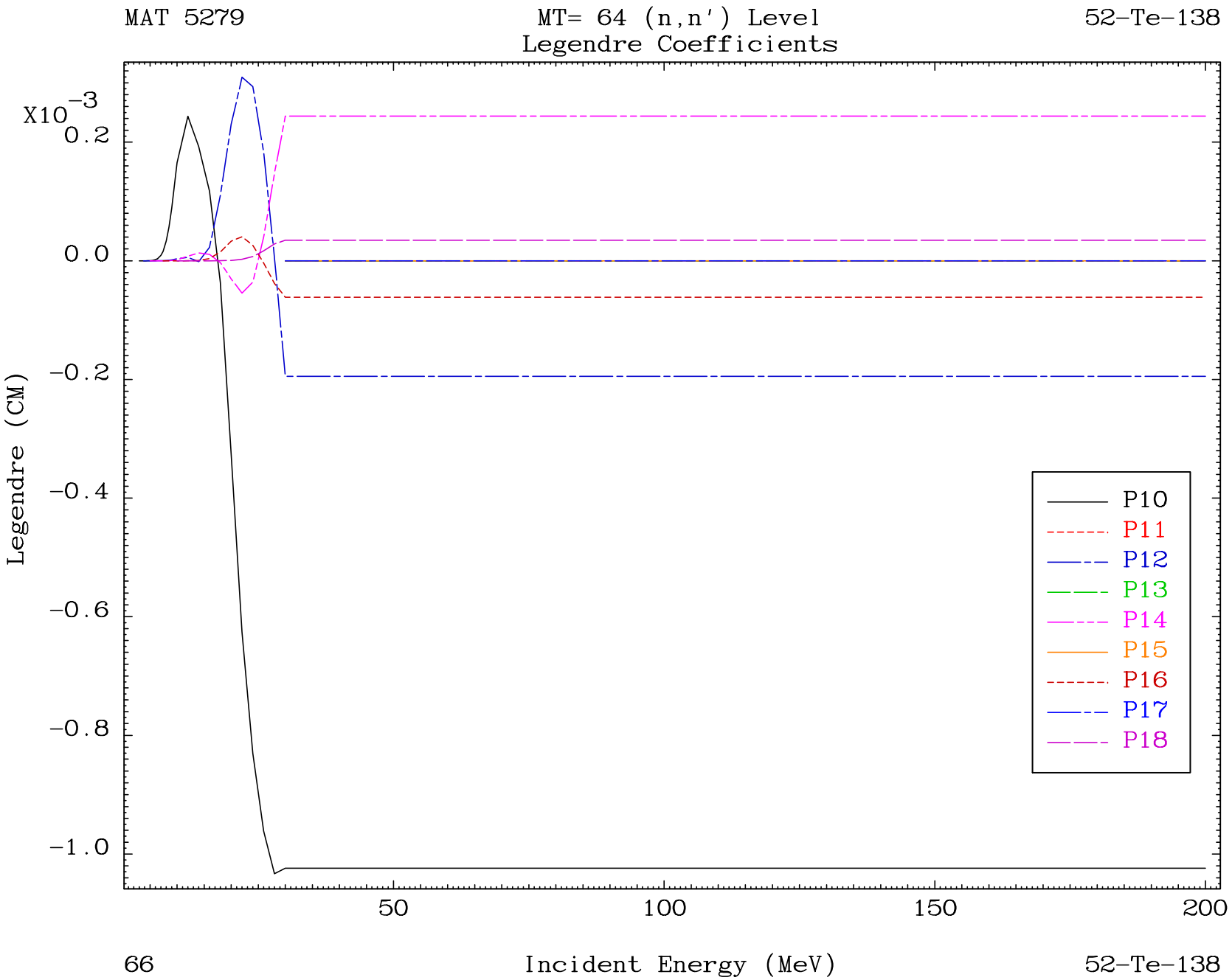

MAT 5279
MT= 63 (n,n') Level
Legendre Coefficients
52-Te-138
Legendre (CM)
0.3
0.2
0.1
0.0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
61
Incident Energy (MeV)
52-Te-138

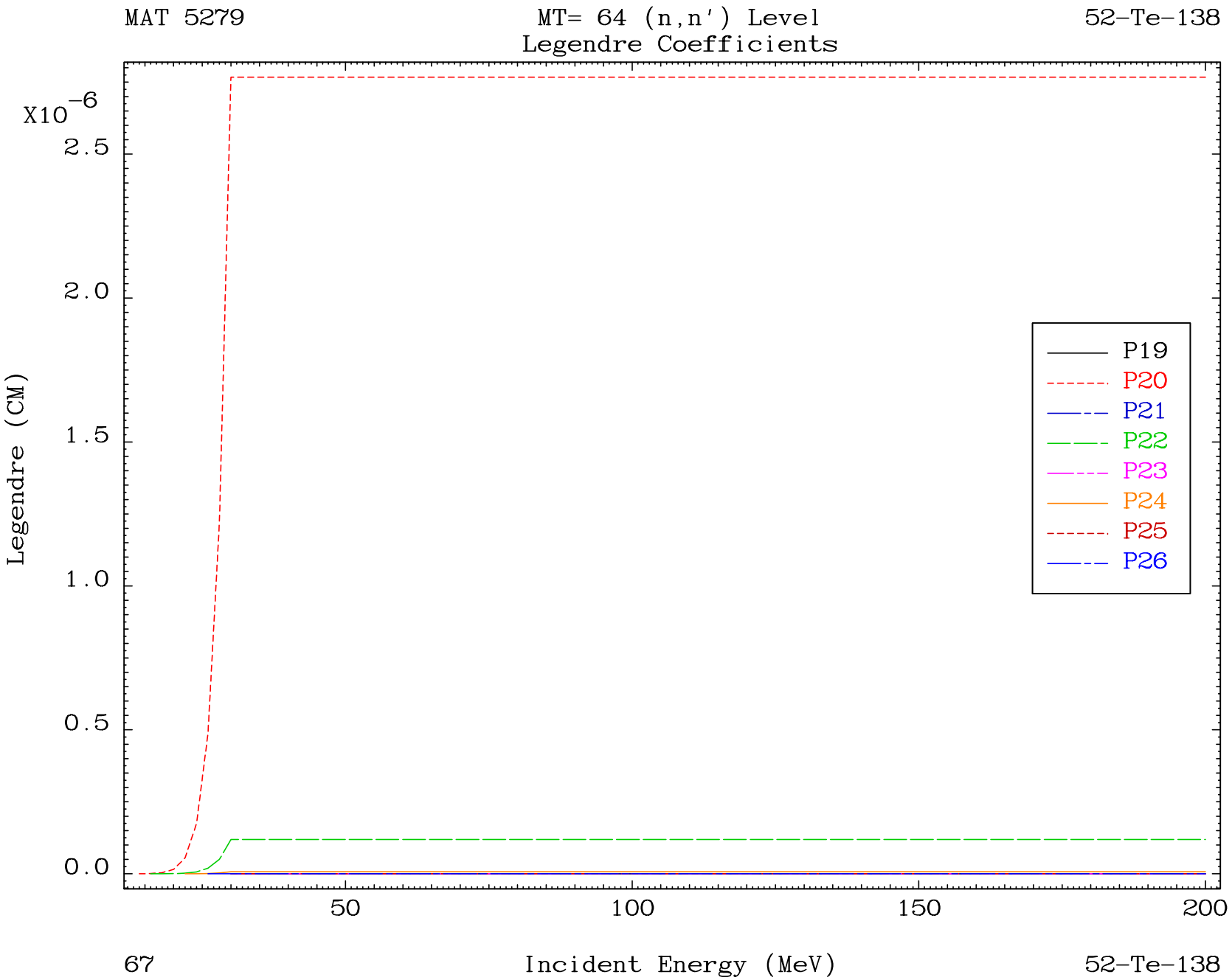

MAT 5279
MT= 63 (n,n') Level
Legendre Coefficients
52-Te-138
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.008
0.006
0.004
0.002
0.000
-0.002
Legendre (CM)
50
100
150
200
62
Incident Energy (MeV)
52-Te-138

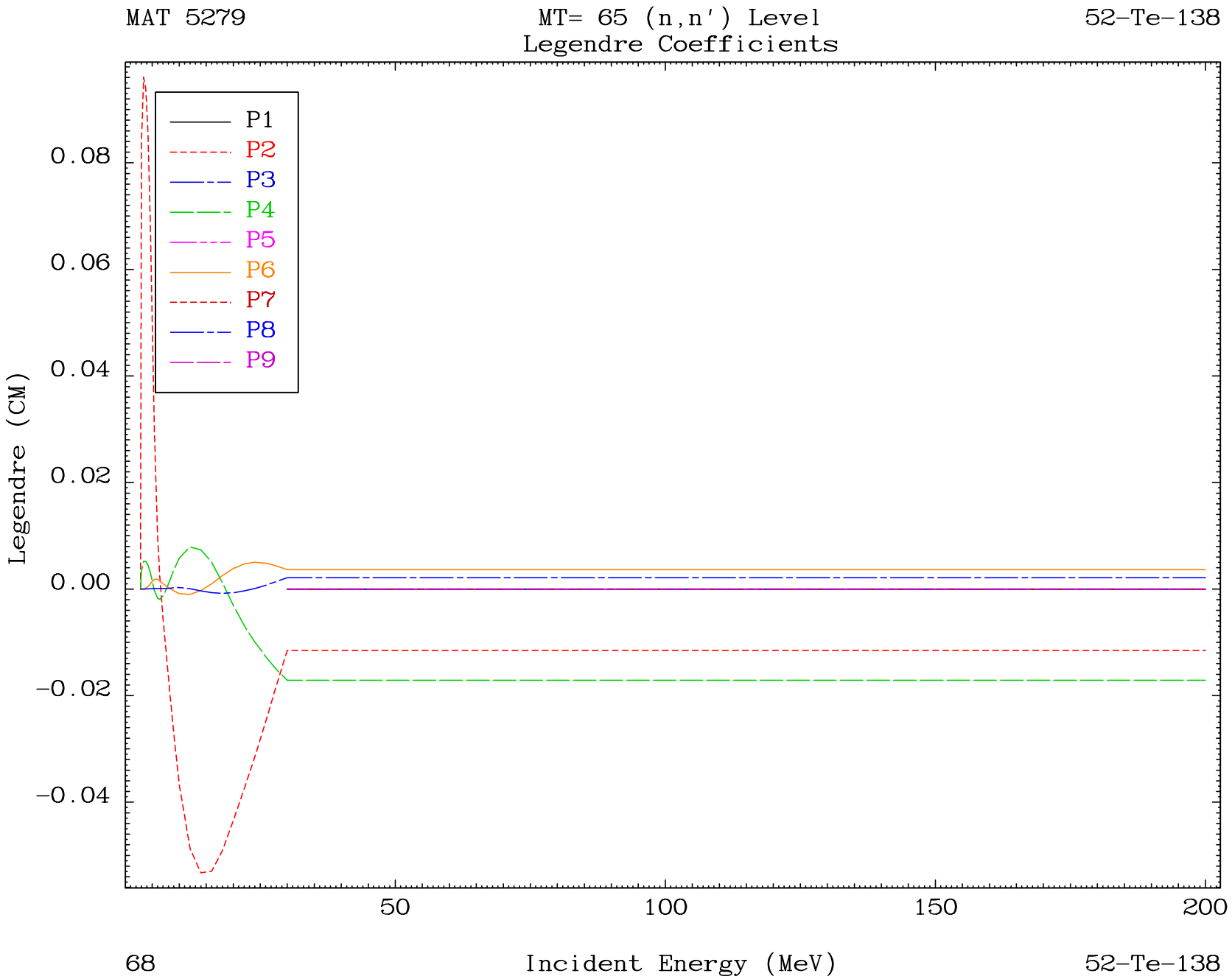

MAT 5279
MT= 63 (n,n') Level
Legendre Coefficients
52-Te-138
X10 -5
3
2
1
0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
63
Incident Energy (MeV)
52-Te-138

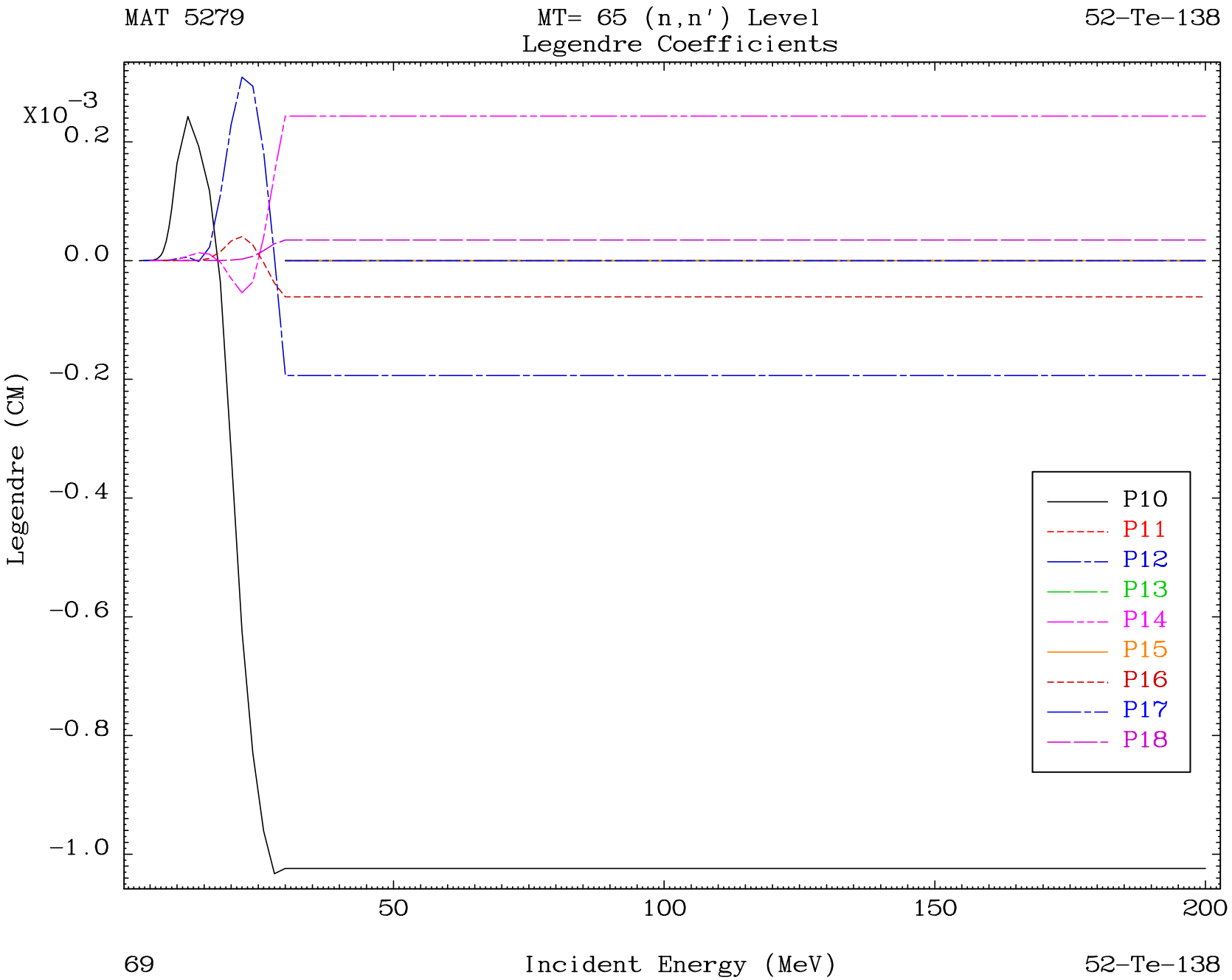

MAT 5279
MT= 63 (n,n') Level
Legendre Coefficients
52-Te-138
2.0
X10−8
1.5
1.0
0.5
0.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
64
Incident Energy (MeV)
52-Te-138

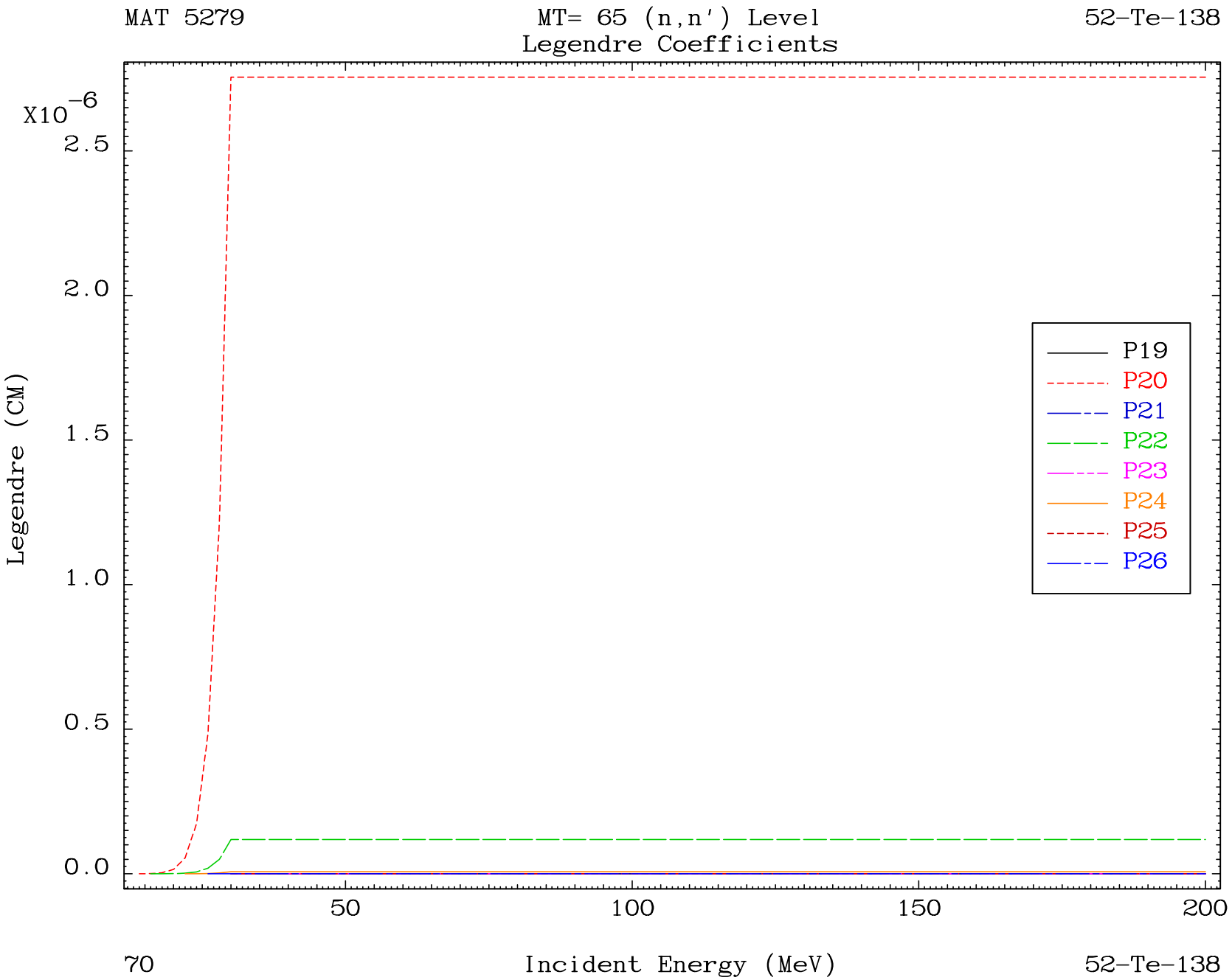

MAT 5279
MT= 64 (n,n') Level
Legendre Coefficients
52-Te-138
P1
P2
P3
P4
P5
P6
P7
P8
P9
0.08
0.06
0.04
0.02
0.00
-0.02
-0.04
Legendre (CM)
50
100
150
200
65
Incident Energy (MeV)
52-Te-138

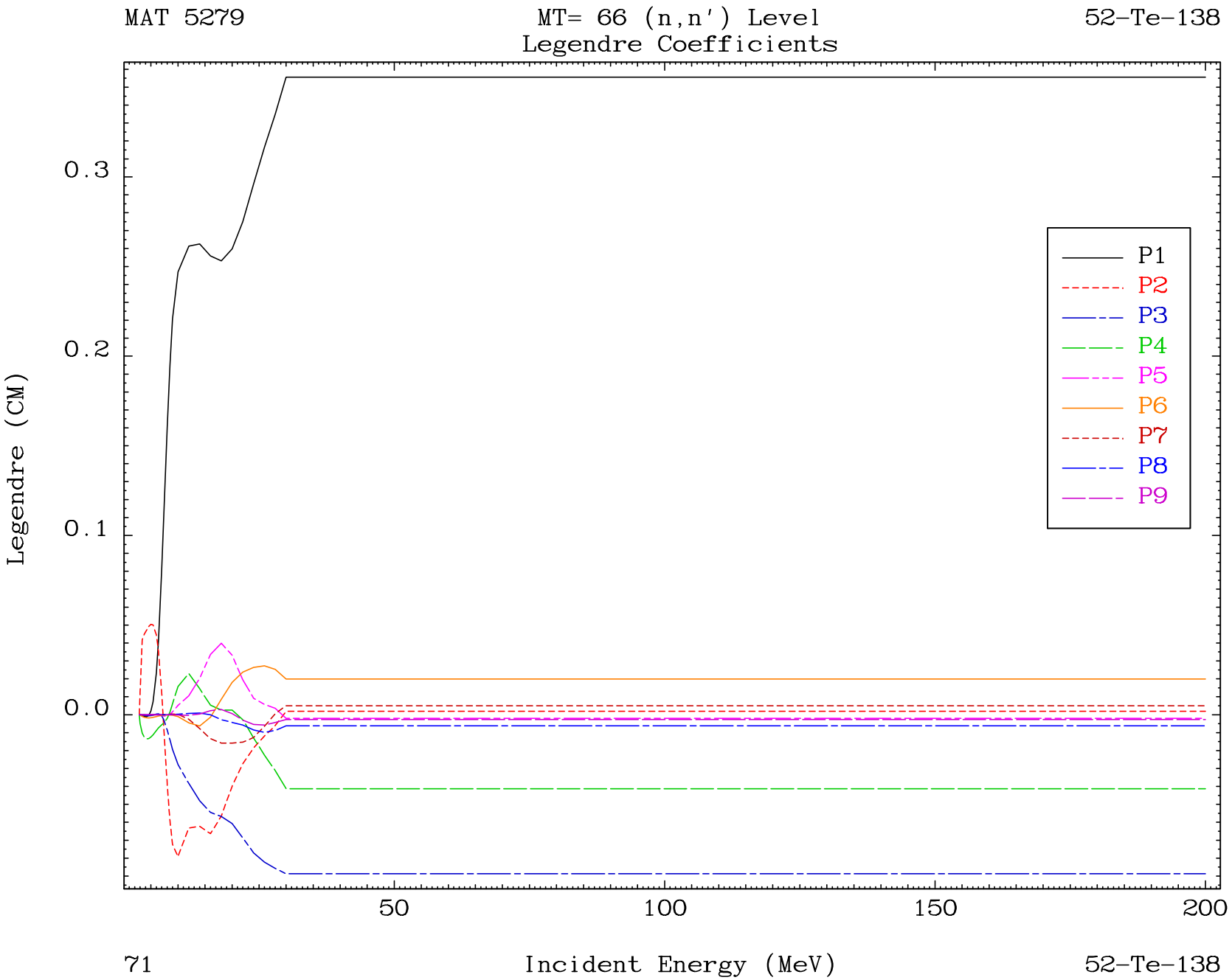

MAT 5279
MT= 64 (n,n') Level
Legendre Coefficients
52-Te-138
X10^-3
0.2
0.0
-0.2
-0.4
-0.6
-0.8
-1.0
Legendre (CM)
50
100
150
200
66
Incident Energy (MeV)
52-Te-138
P10
P11
P12
P13
P14
P15
P16
P17
P18

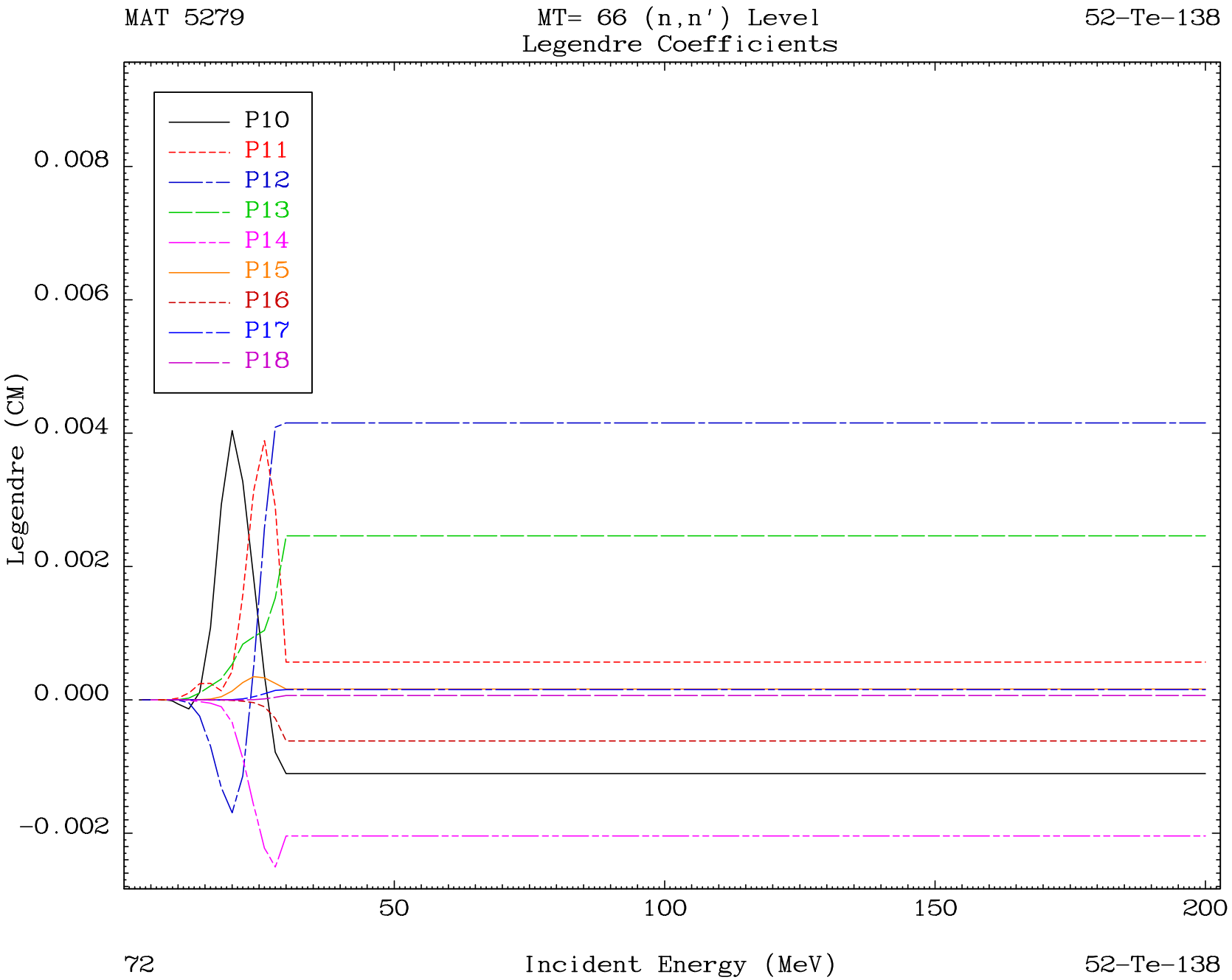

MAT 5279
MT= 64 (n,n') Level
Legendre Coefficients
52-Te-138
X10^-6
2.5
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
50
100
150
200
67
Incident Energy (MeV)
52-Te-138

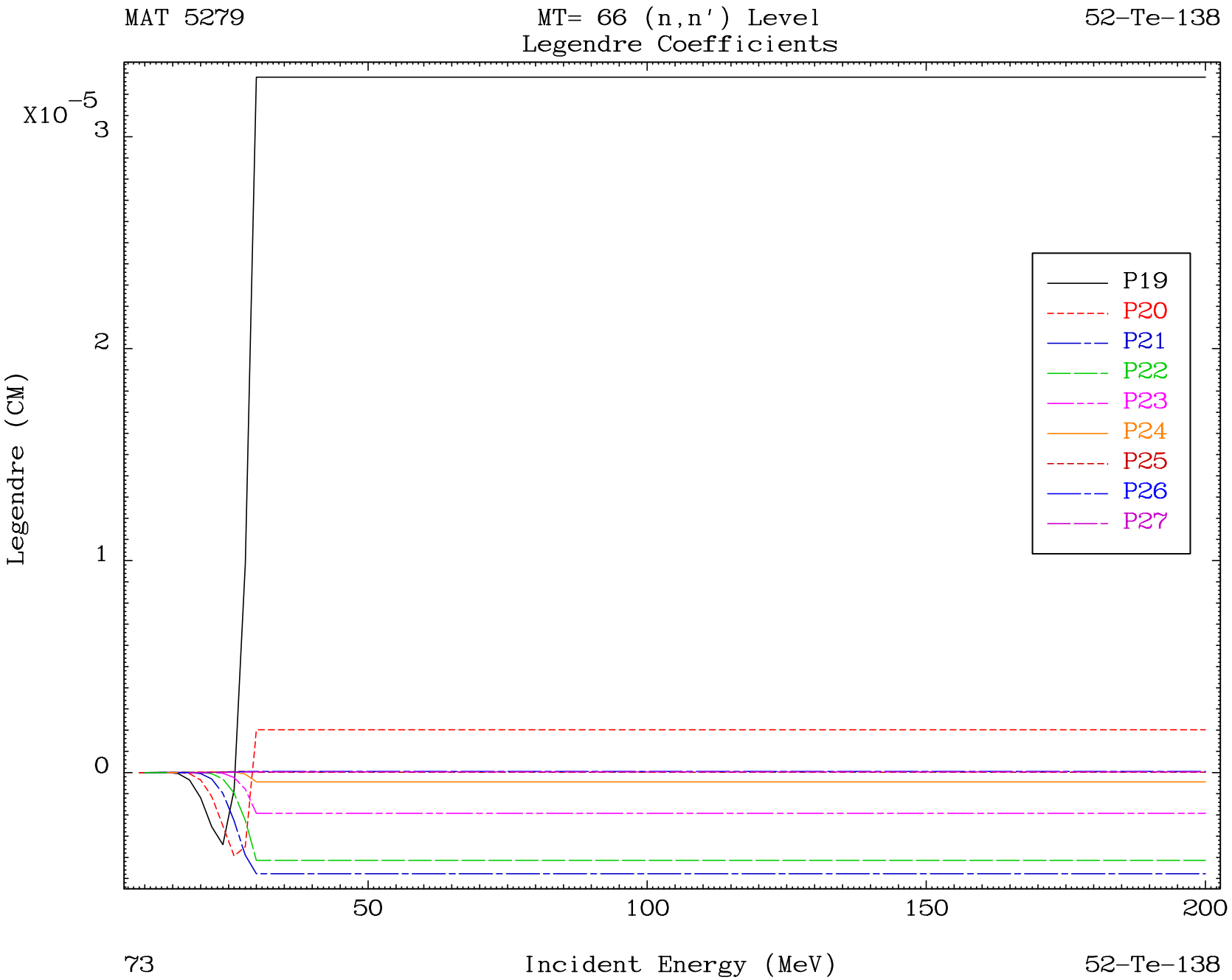

MAT 5279
MT= 65 (n,n') Level
Legendre Coefficients
52-Te-138
P1
P2
P3
P4
P5
P6
P7
P8
P9
0.08
0.06
0.04
0.02
0.00
-0.02
-0.04
Legendre (CM)
50
100
150
200
68
Incident Energy (MeV)
52-Te-138

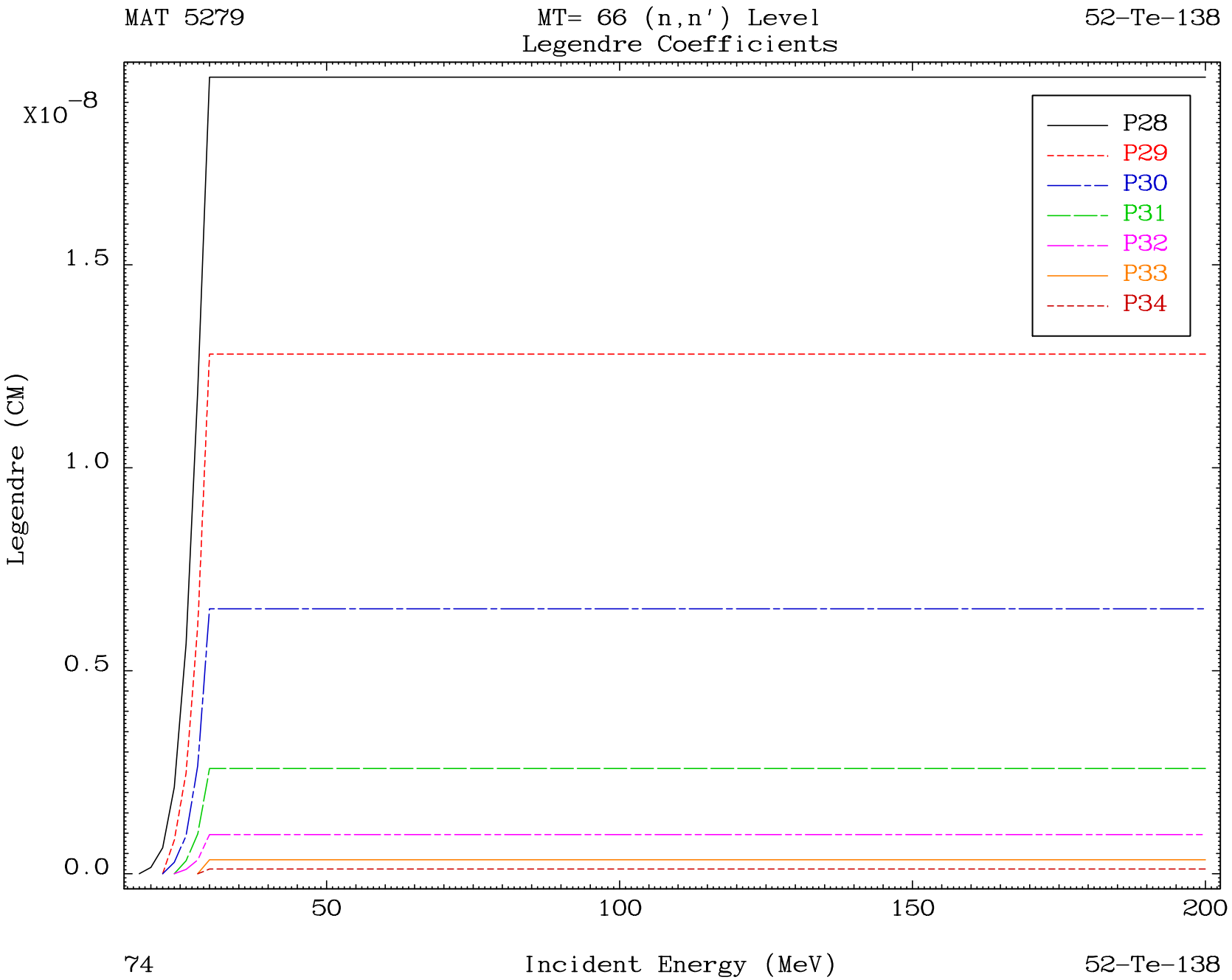

MAT 5279
MT= 65 (n,n') Level
Legendre Coefficients
52-Te-138
X10^-3
0.2
0.0
-0.2
-0.4
-0.6
-0.8
-1.0
Legendre (CM)
50
100
150
200
P10
P11
P12
P13
P14
P15
P16
P17
P18
69
Incident Energy (MeV)
52-Te-138

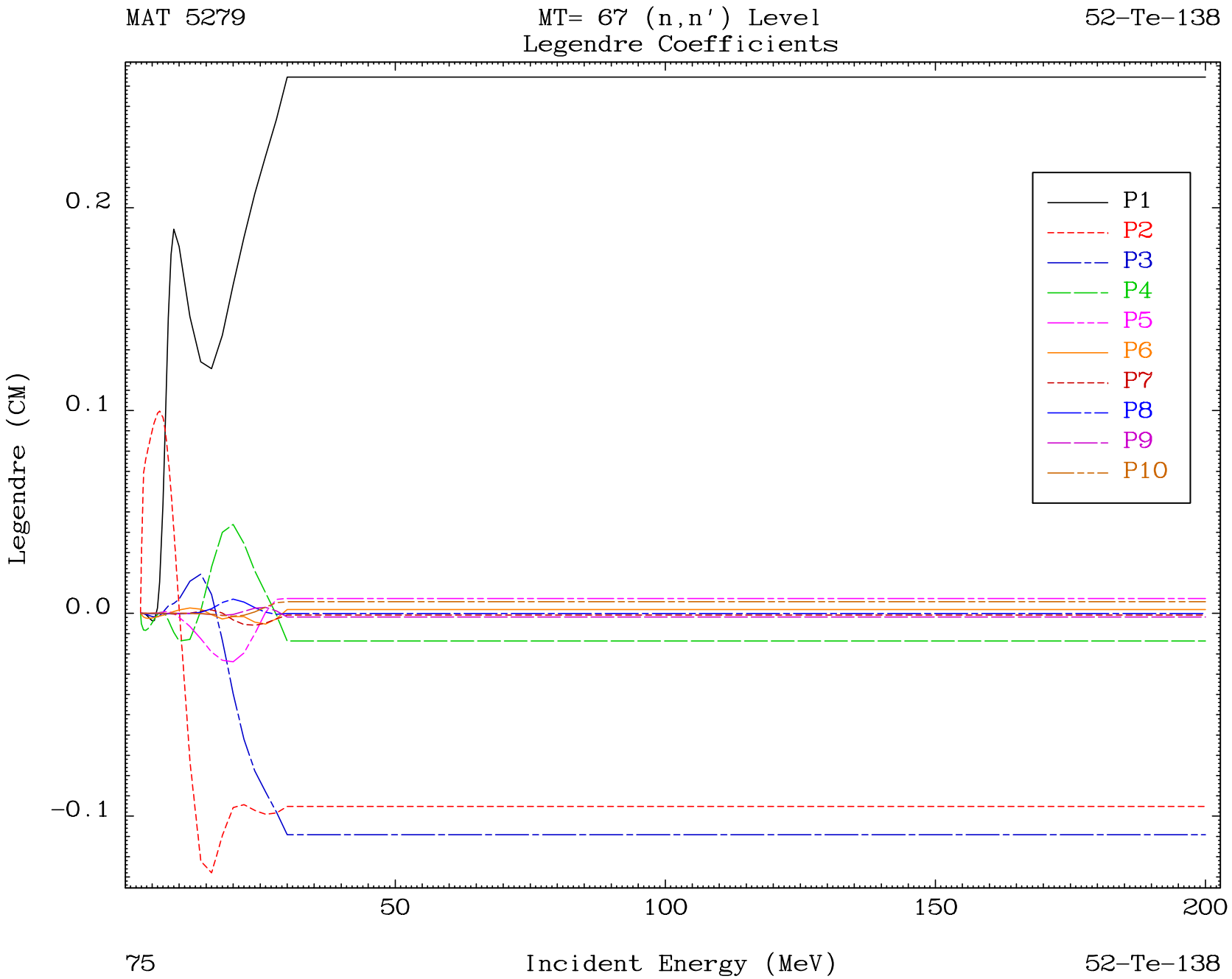

MAT 5279
MT= 65 (n,n') Level
Legendre Coefficients
52-Te-138
X10^-6
2.5
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
50
100
150
200
70
Incident Energy (MeV)
52-Te-138

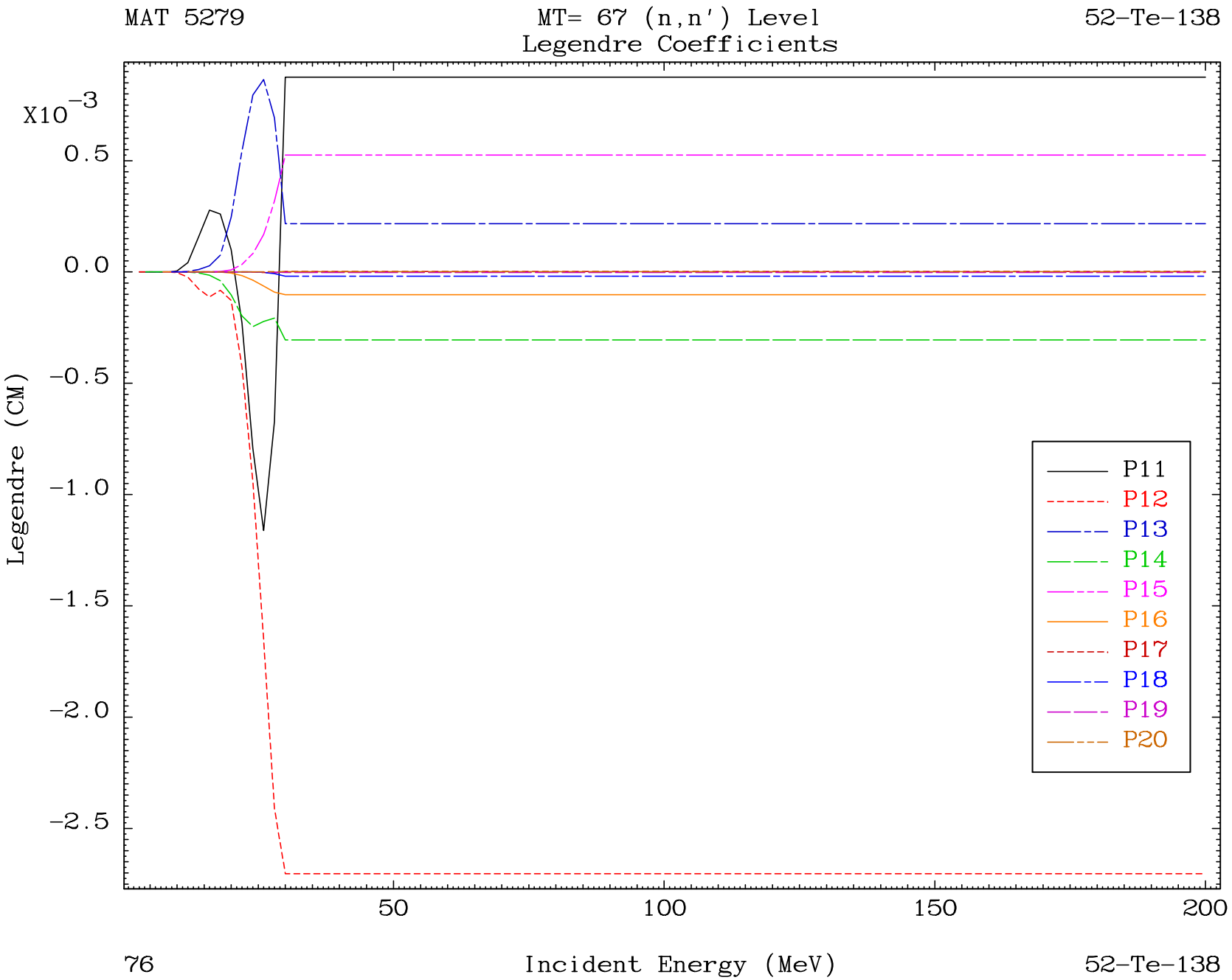

MAT 5279
MT= 66 (n,n') Level
Legendre Coefficients
52-Te-138
Legendre (CM)
0.3
0.2
0.1
0.0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
71
Incident Energy (MeV)
52-Te-138

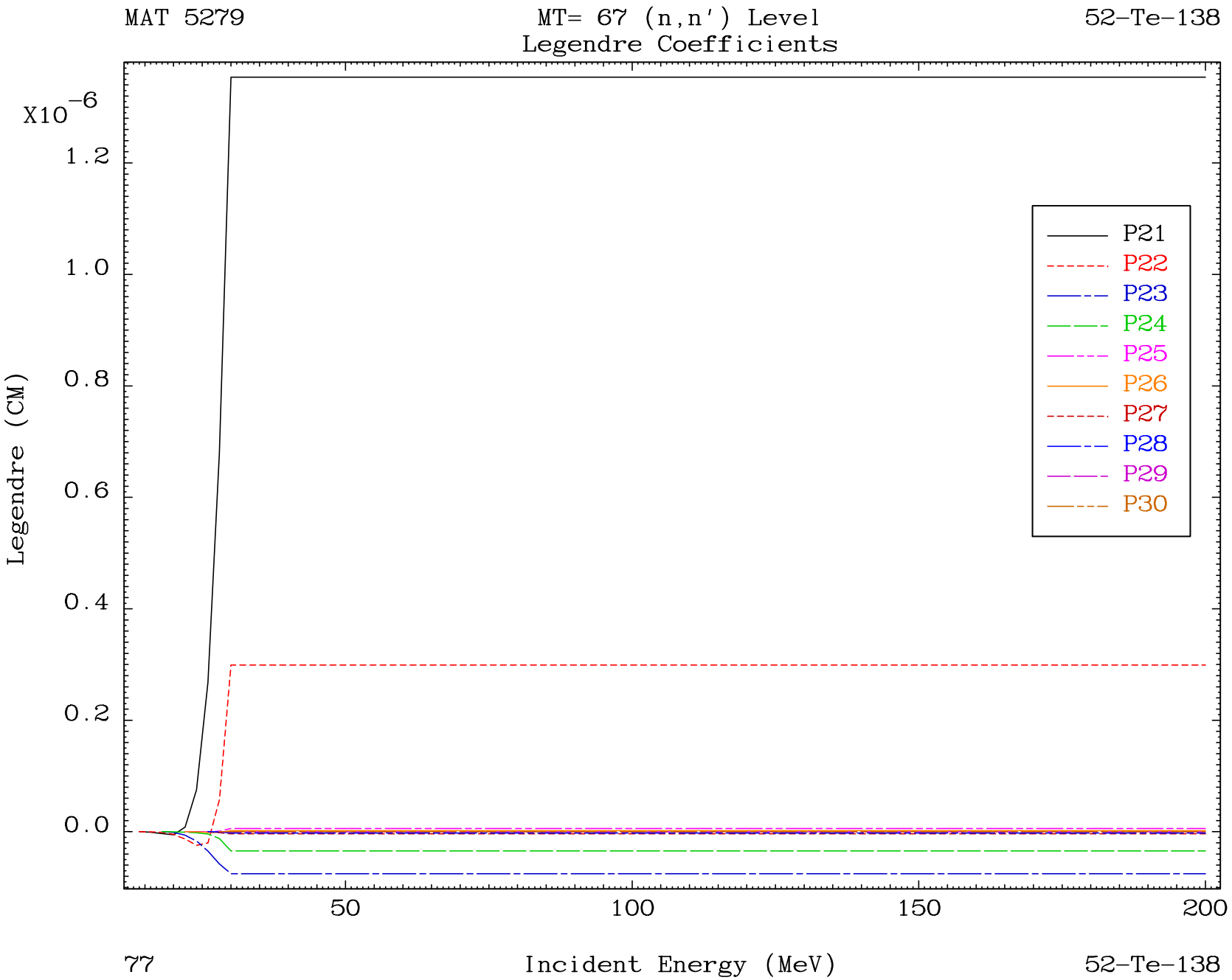

MAT 5279
MT= 66 (n,n') Level
Legendre Coefficients
52-Te-138
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.008
0.006
0.004
0.002
0.000
-0.002
Legendre (CM)
50
100
150
200
72
Incident Energy (MeV)
52-Te-138

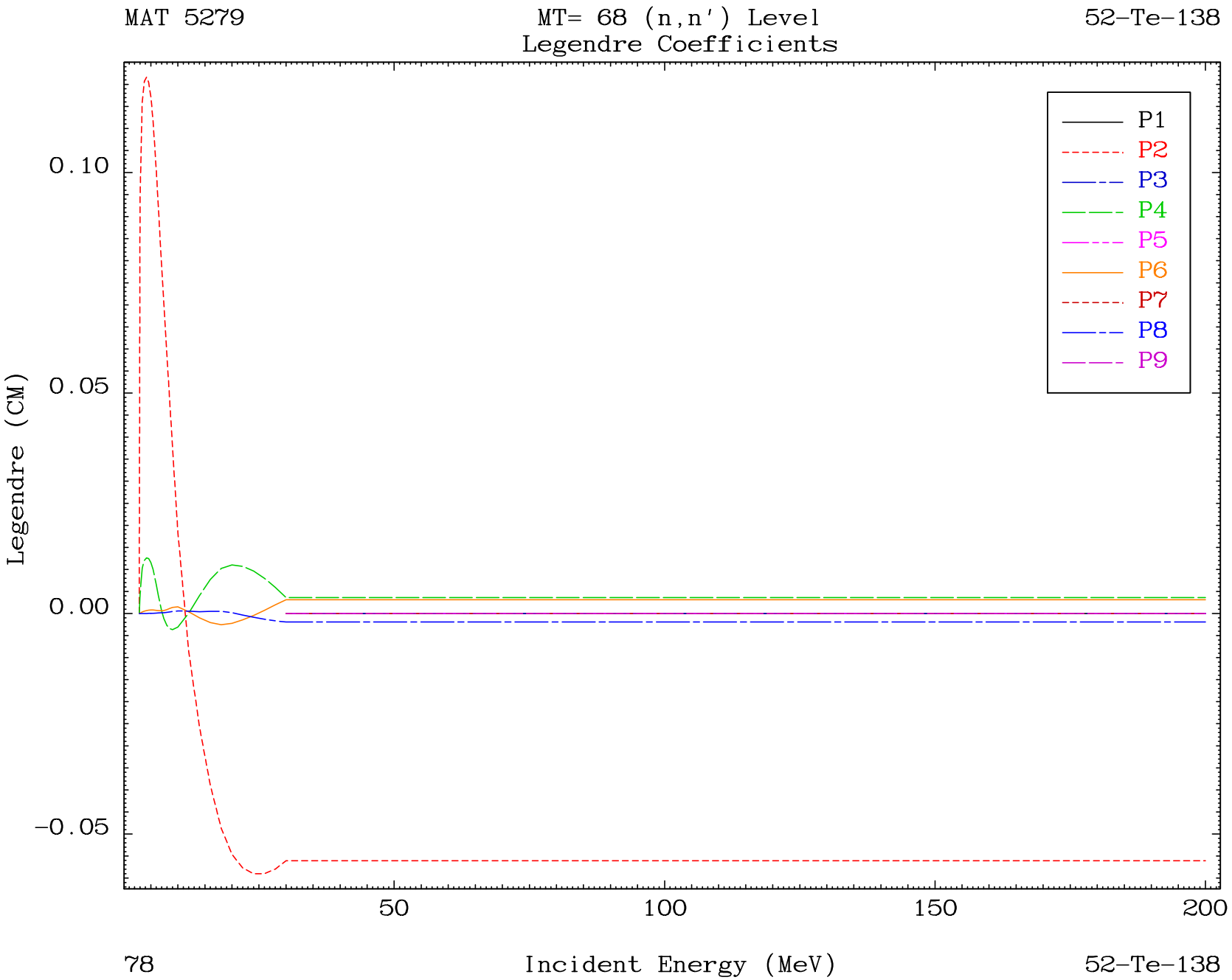

MAT 5279
MT= 66 (n,n') Level
Legendre Coefficients
52-Te-138
X10 -5
3
2
1
0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
73
Incident Energy (MeV)
52-Te-138

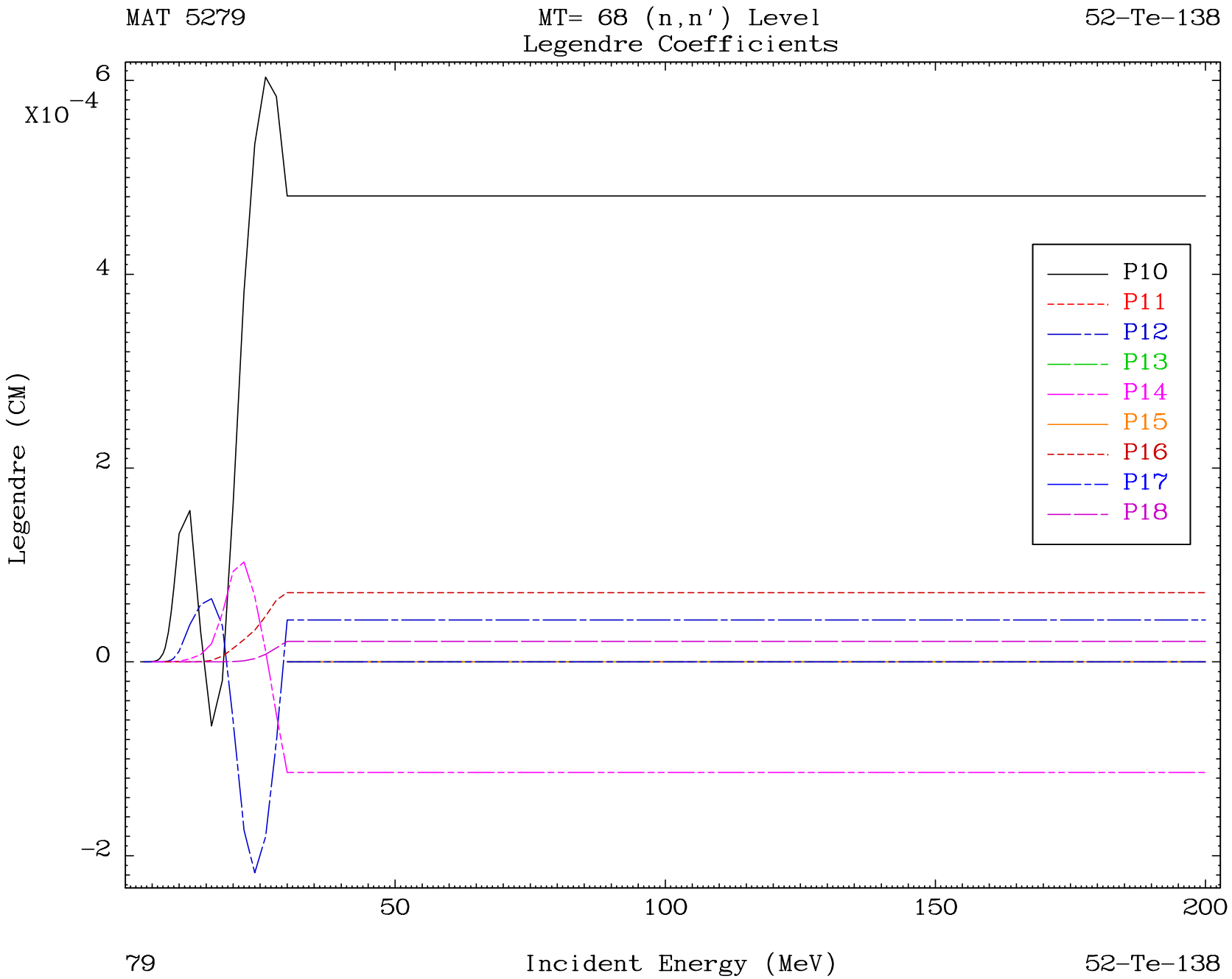

MAT 5279
MT= 66 (n,n') Level
Legendre Coefficients
52-Te-138
X10^-8
1.5
1.0
0.5
0.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
74
Incident Energy (MeV)
52-Te-138

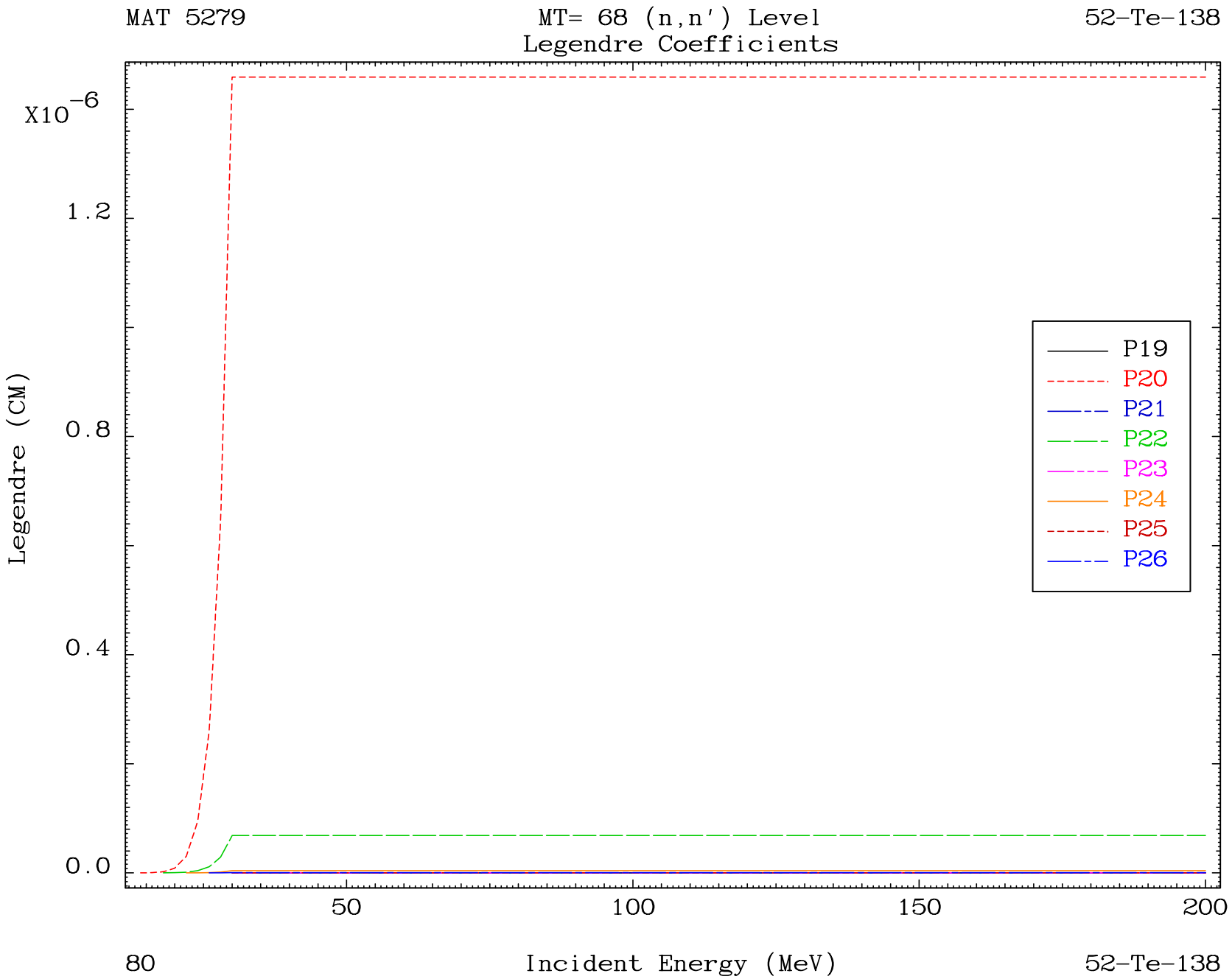

MAT 5279
MT= 67 (n,n') Level
Legendre Coefficients
52-Te-138
0.2
0.1
0.0
-0.1
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
50
100
150
200
75
Incident Energy (MeV)
52-Te-138

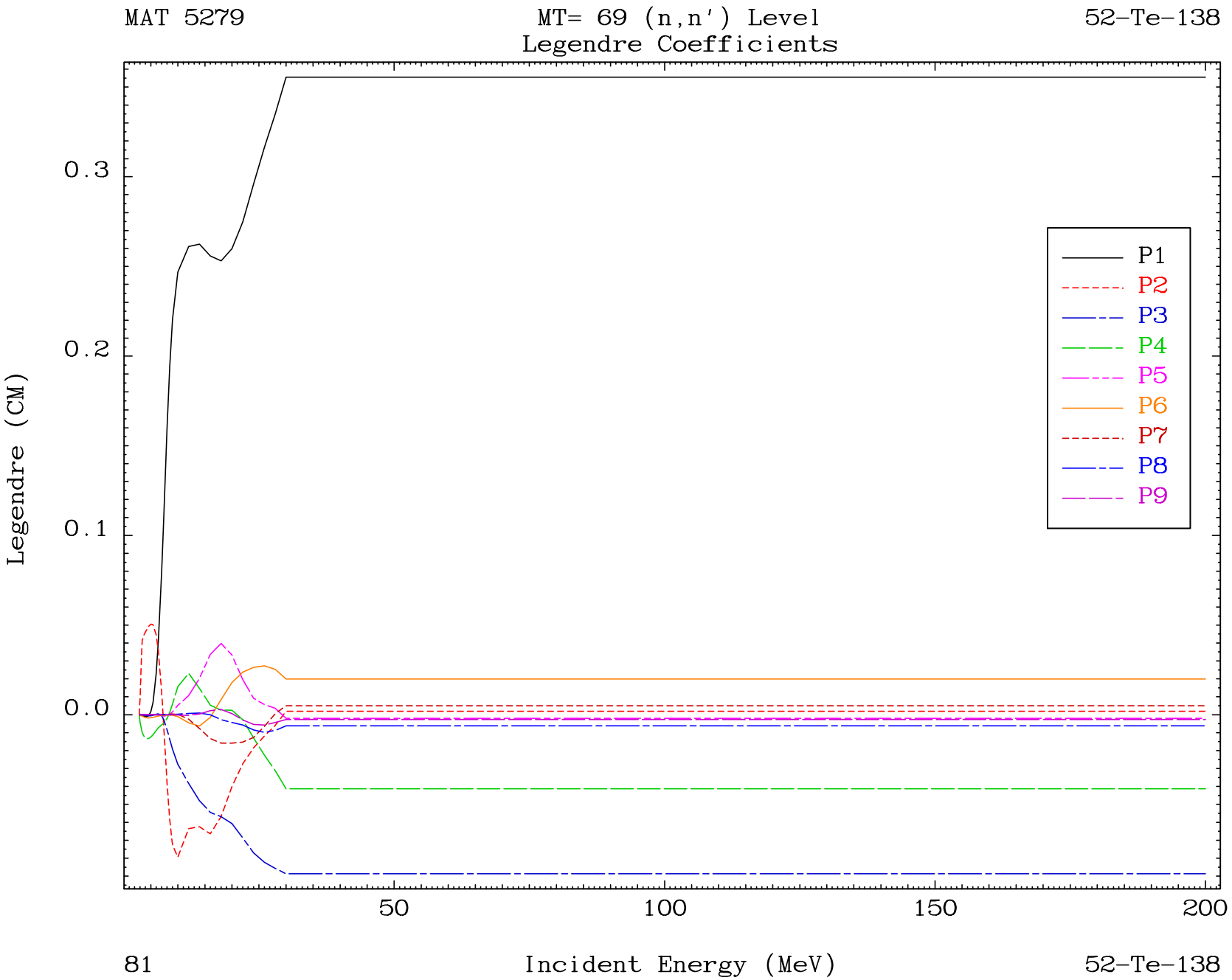

MAT 5279
MT= 67 (n,n') Level
Legendre Coefficients
52-Te-138
X10^-3
0.5
0.0
-0.5
-1.0
-1.5
-2.0
-2.5
Legendre (CM)
50
100
150
200
76
Incident Energy (MeV)
52-Te-138
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20

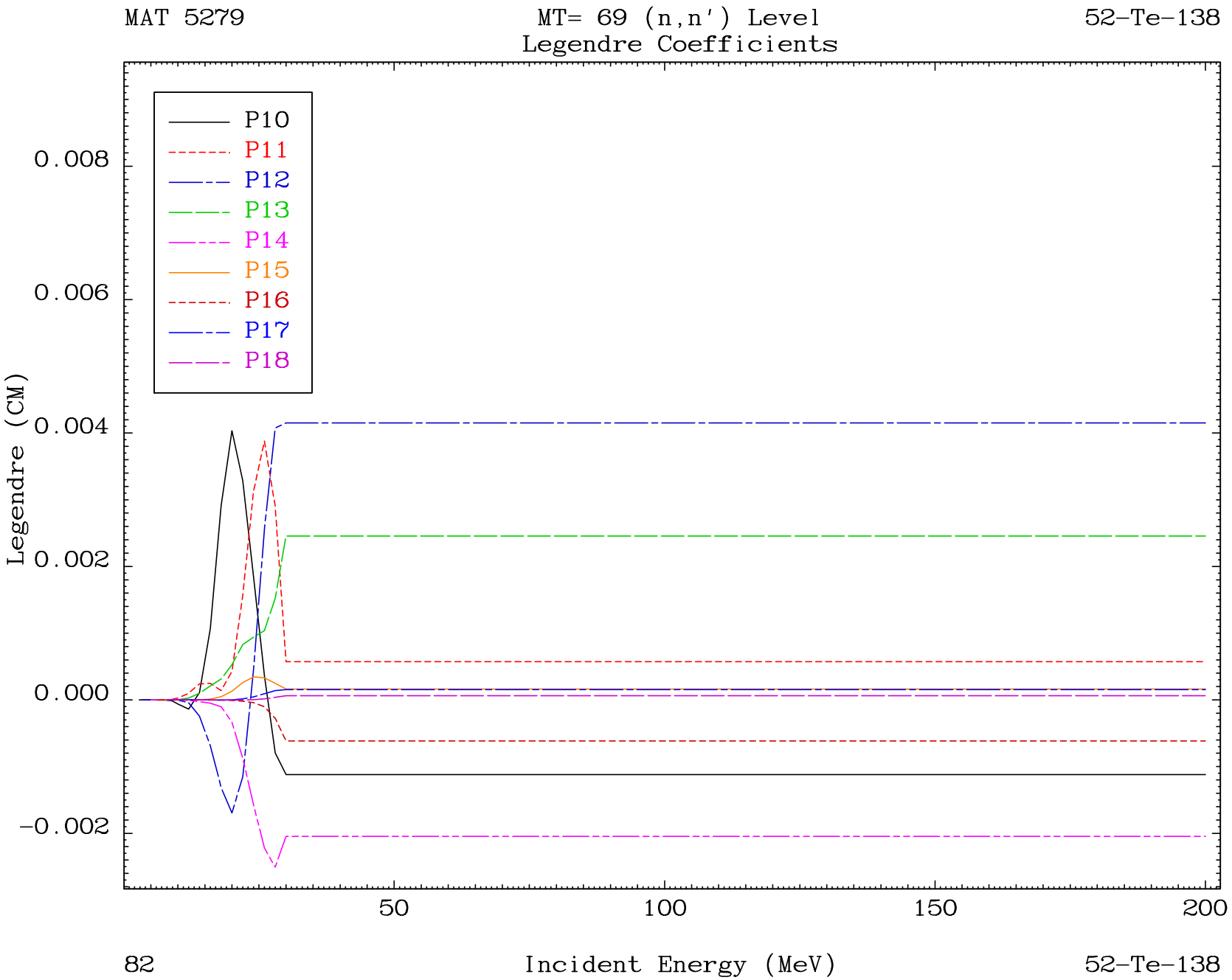

MAT 5279
MT= 67 (n,n') Level
Legendre Coefficients
52-Te-138
X10^-6
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
50
100
150
200
77
Incident Energy (MeV)
52-Te-138

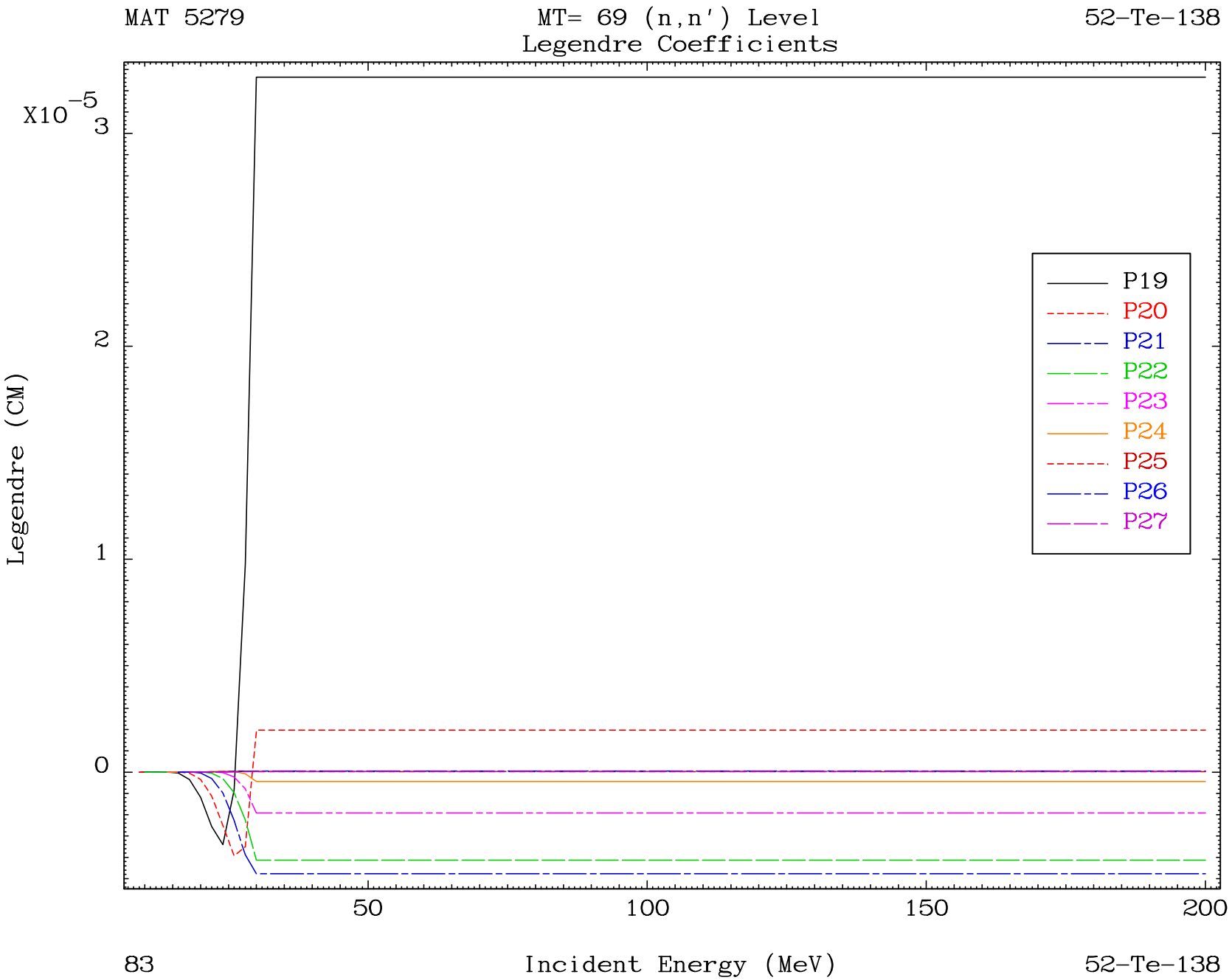

MAT 5279
MT= 68 (n,n') Level
Legendre Coefficients
52-Te-138
P1
P2
P3
P4
P5
P6
P7
P8
P9
0.10
0.05
0.00
-0.05
Legendre (CM)
50
100
150
200
78
Incident Energy (MeV)
52-Te-138

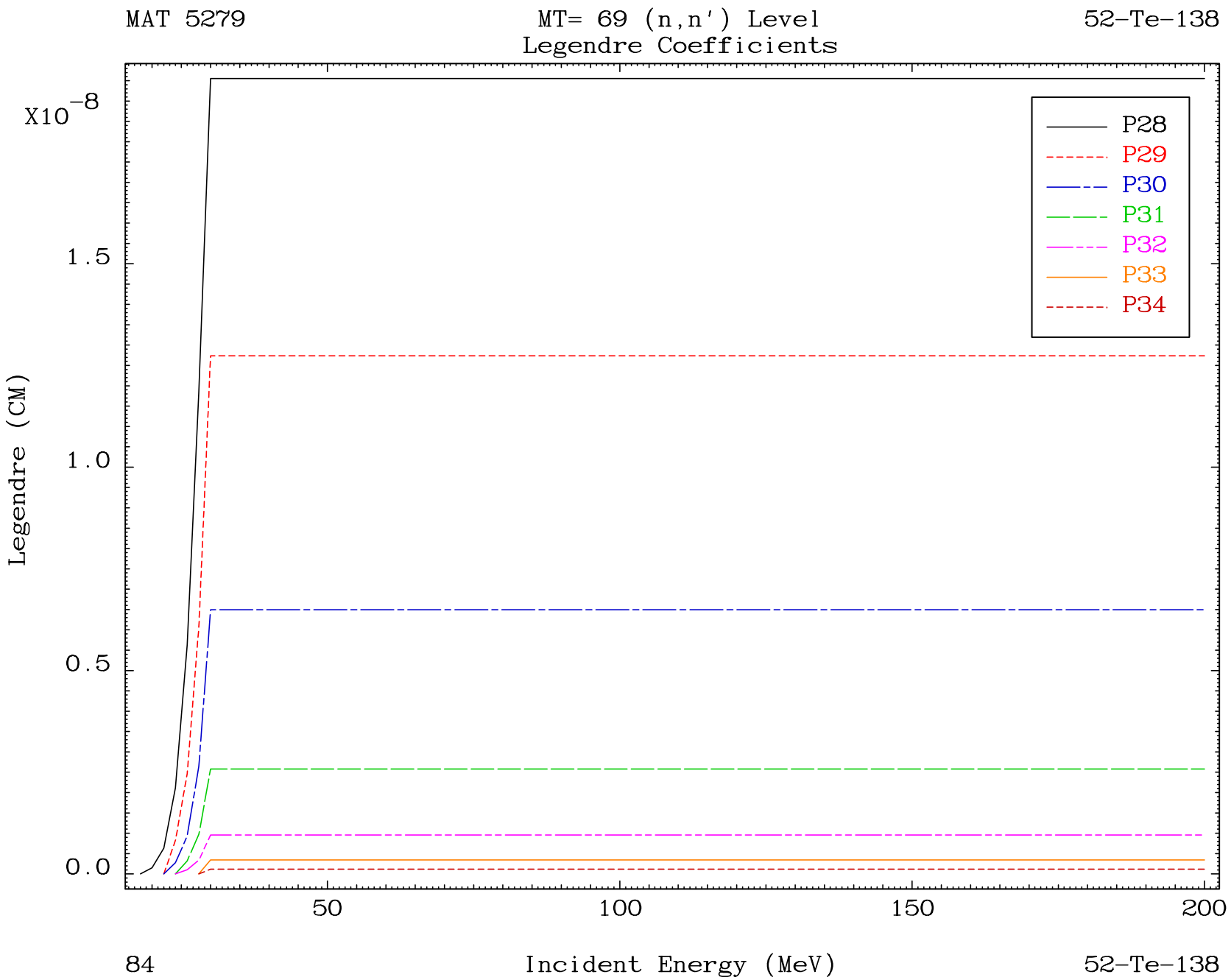

MAT 5279
MT= 68 (n,n') Level
Legendre Coefficients
52-Te-138
X10^-4
6
4
2
0
-2
Legendre (CM)
50
100
150
200
P10
P11
P12
P13
P14
P15
P16
P17
P18
79
Incident Energy (MeV)
52-Te-138

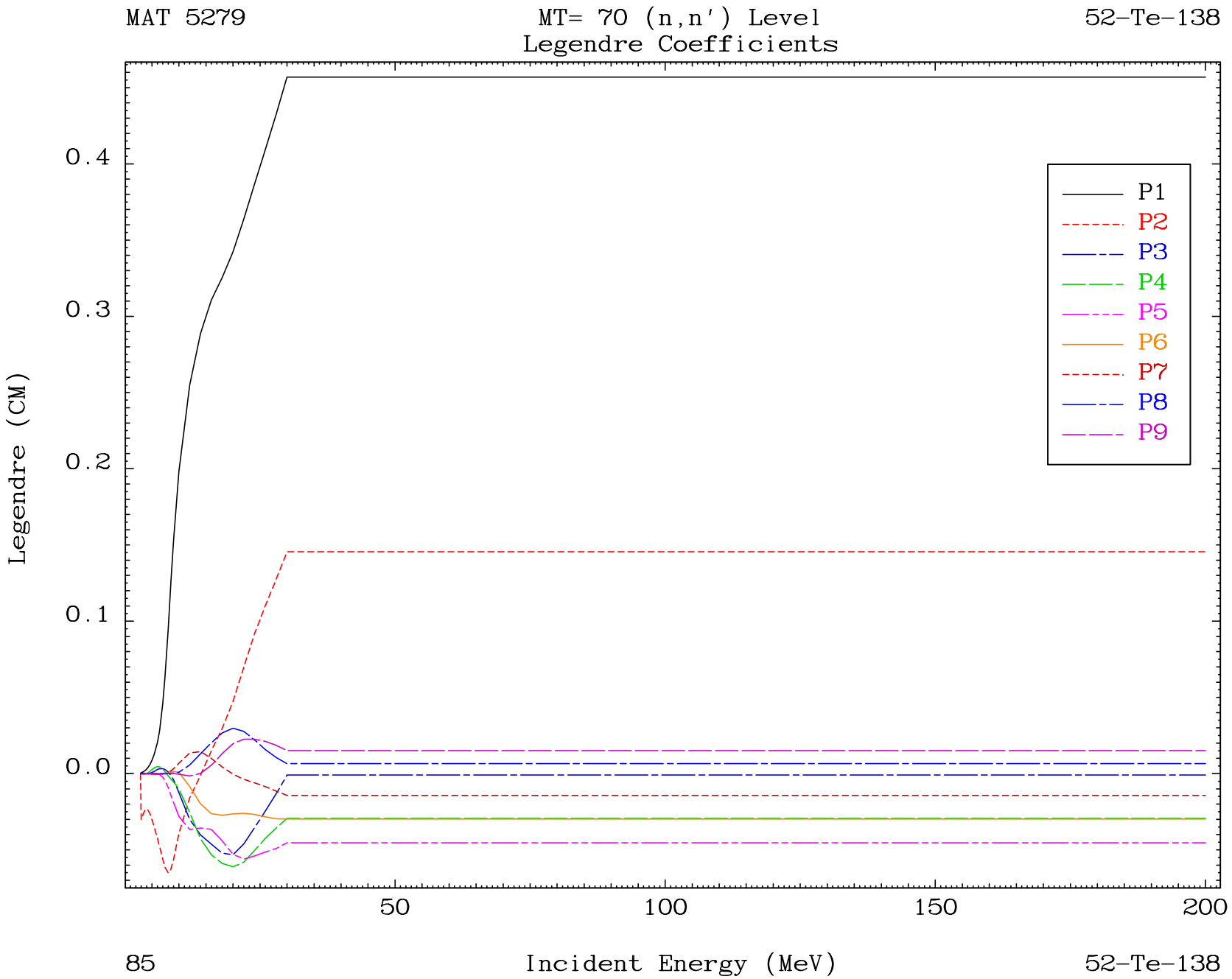

MAT 5279
MT= 68 (n,n') Level
Legendre Coefficients
52-Te-138
X10^-6
1.2
0.8
0.4
0.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
50
100
150
200
80
Incident Energy (MeV)
52-Te-138

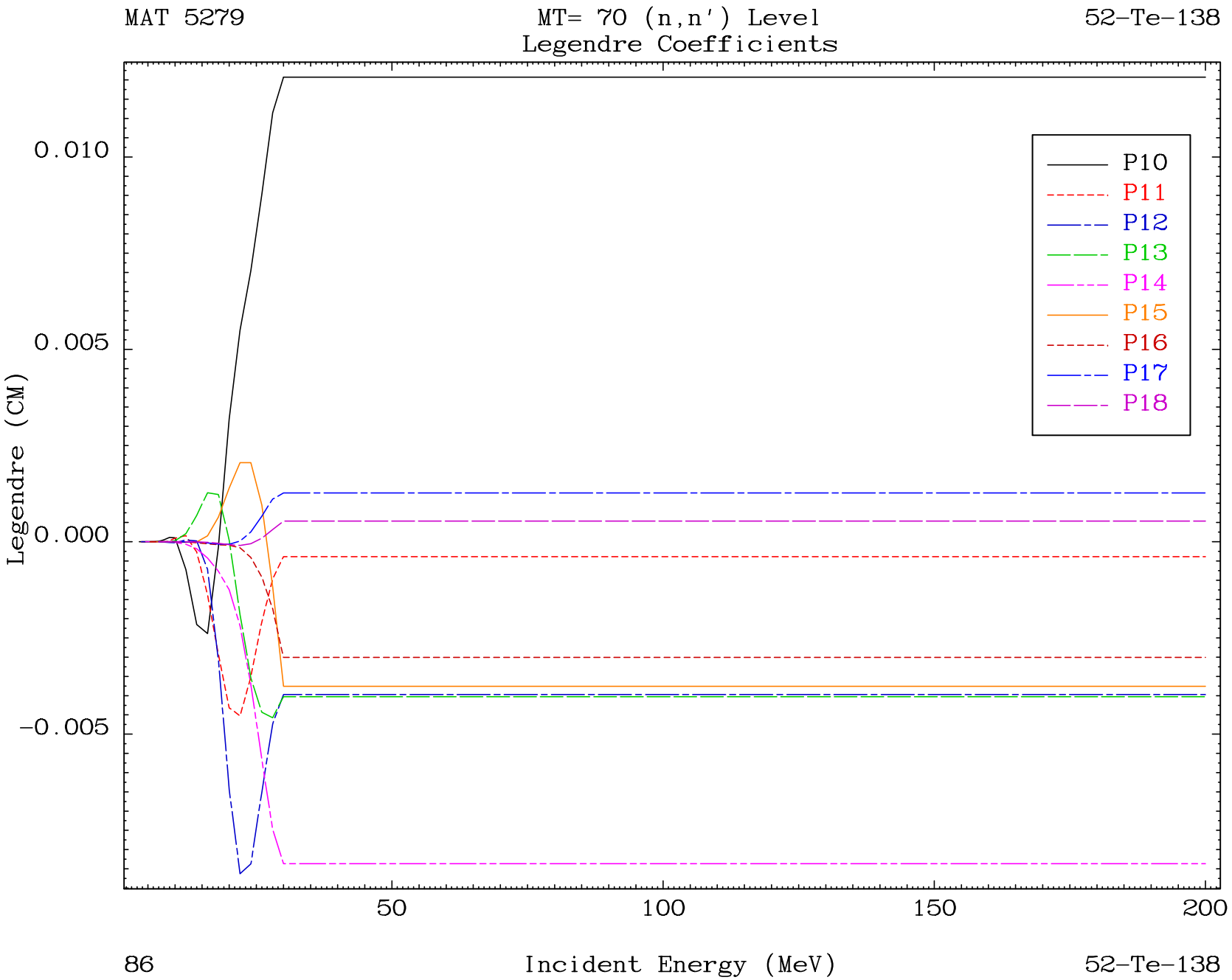

MAT 5279
MT= 69 (n,n') Level
Legendre Coefficients
52-Te-138
Legendre (CM)
0.3
0.2
0.1
0.0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
81
Incident Energy (MeV)
52-Te-138

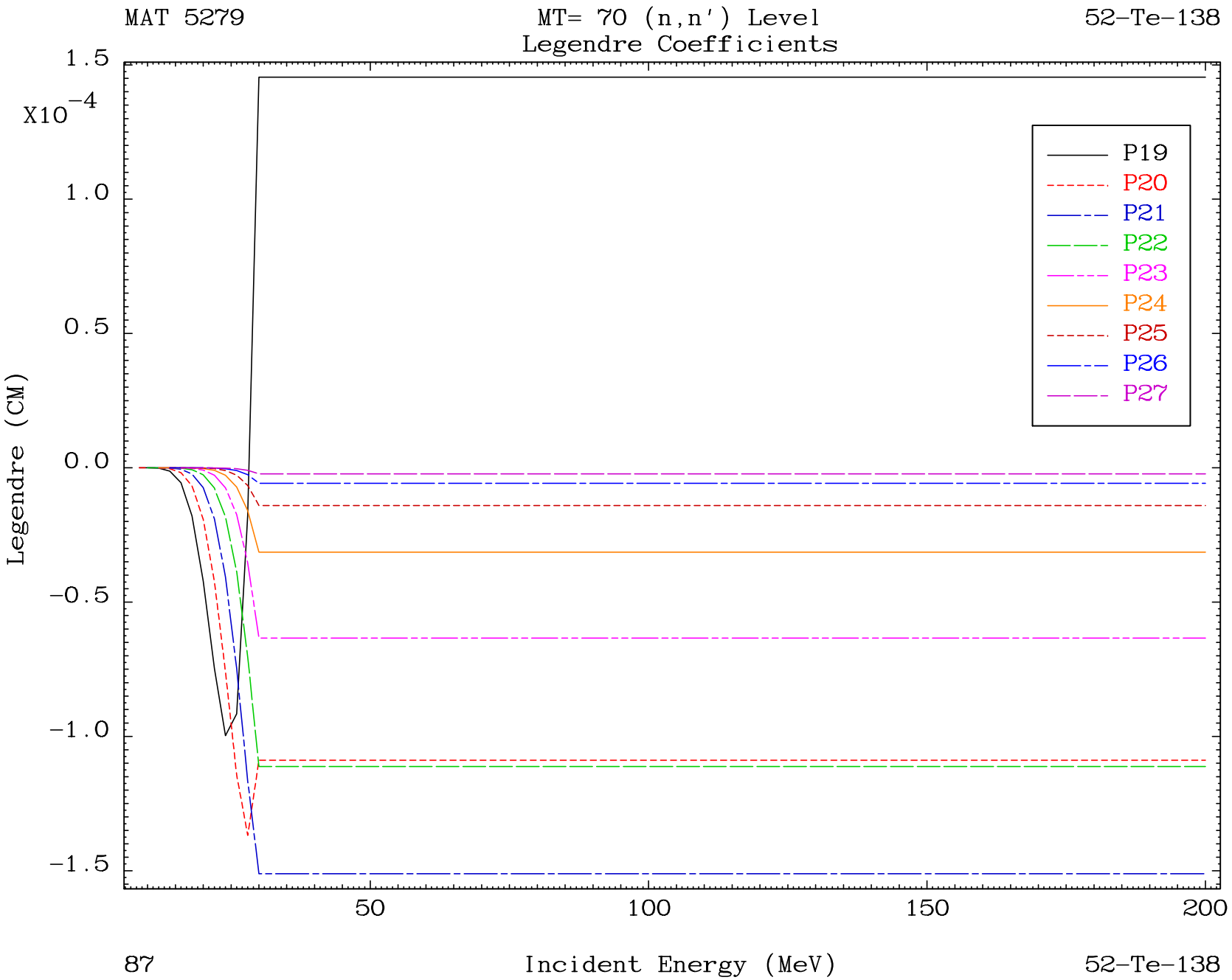

MAT 5279
MT= 69 (n,n') Level
Legendre Coefficients
52-Te-138
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.008
0.006
0.004
0.002
0.000
-0.002
Legendre (CM)
50
100
150
200
82
Incident Energy (MeV)
52-Te-138

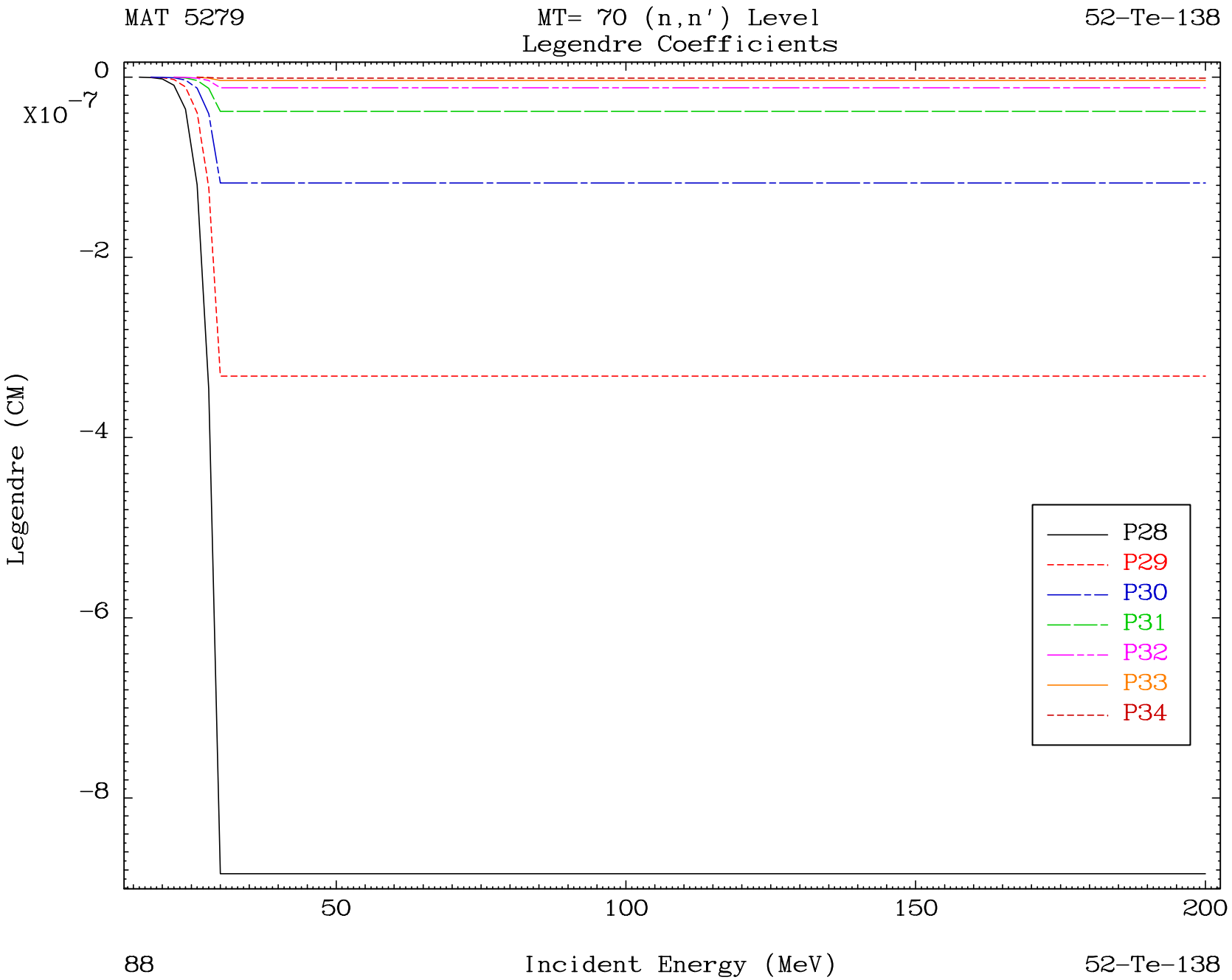

MAT 5279
MT= 69 (n,n') Level
Legendre Coefficients
52-Te-138
X10 -5
3
2
1
0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
83
Incident Energy (MeV)
52-Te-138

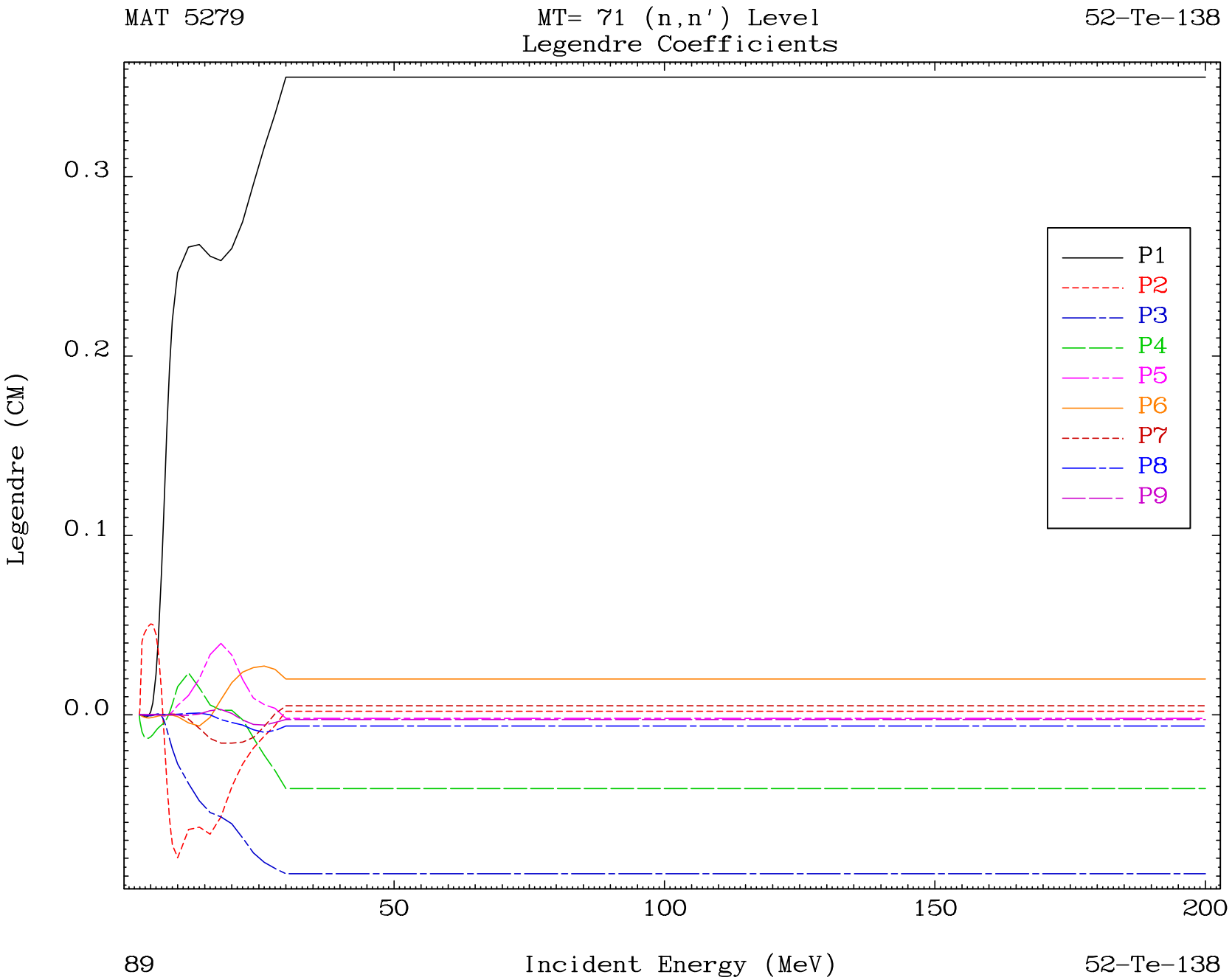

MAT 5279
MT= 69 (n,n') Level
Legendre Coefficients
52-Te-138
X10^-8
1.5
1.0
0.5
0.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
84
Incident Energy (MeV)
52-Te-138

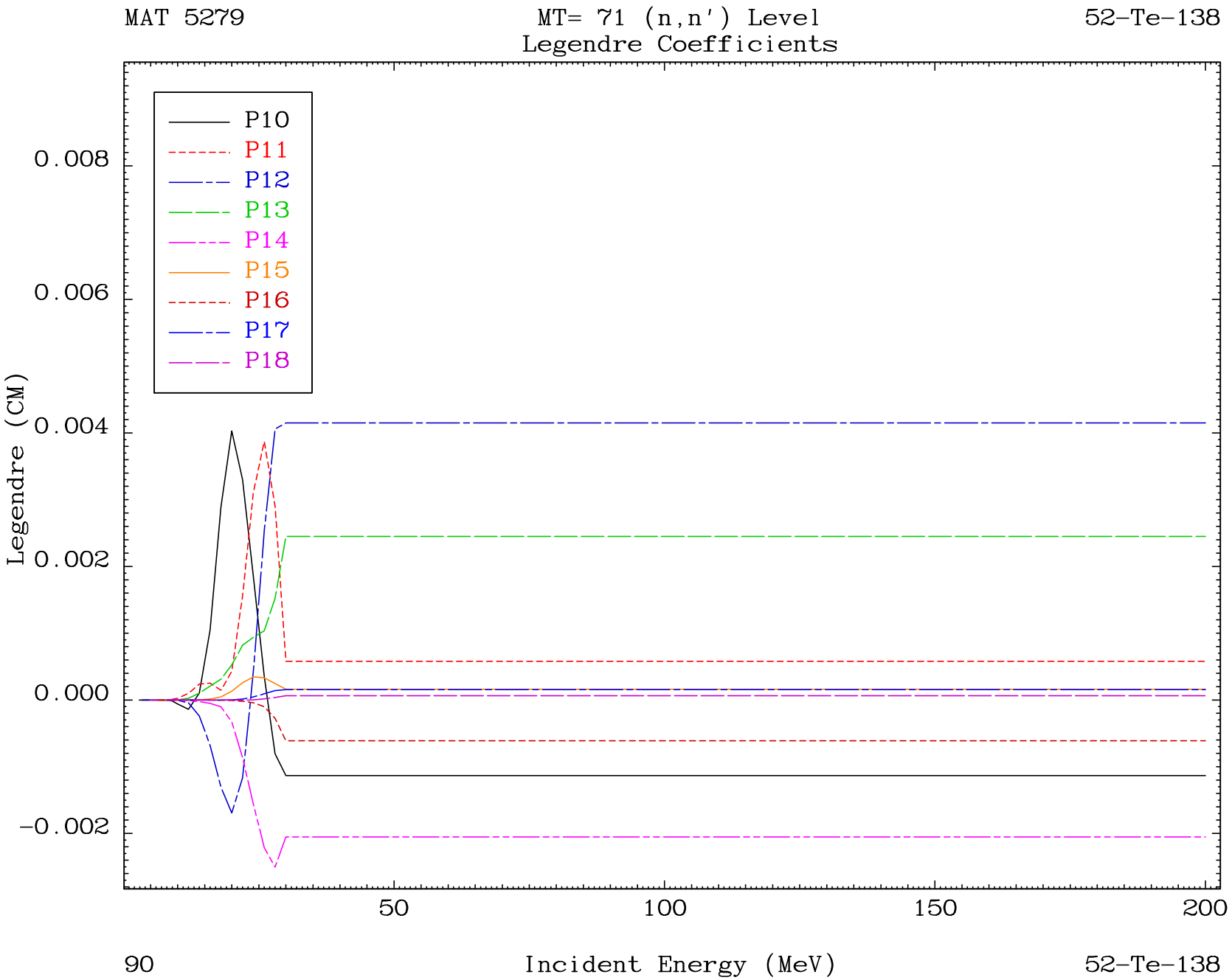

MAT 5279
MT= 70 (n,n') Level
Legendre Coefficients
52-Te-138
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
P1
P2
P3
P4
P5
P6
P7
P8
P9
50
100
150
200
85
Incident Energy (MeV)
52-Te-138

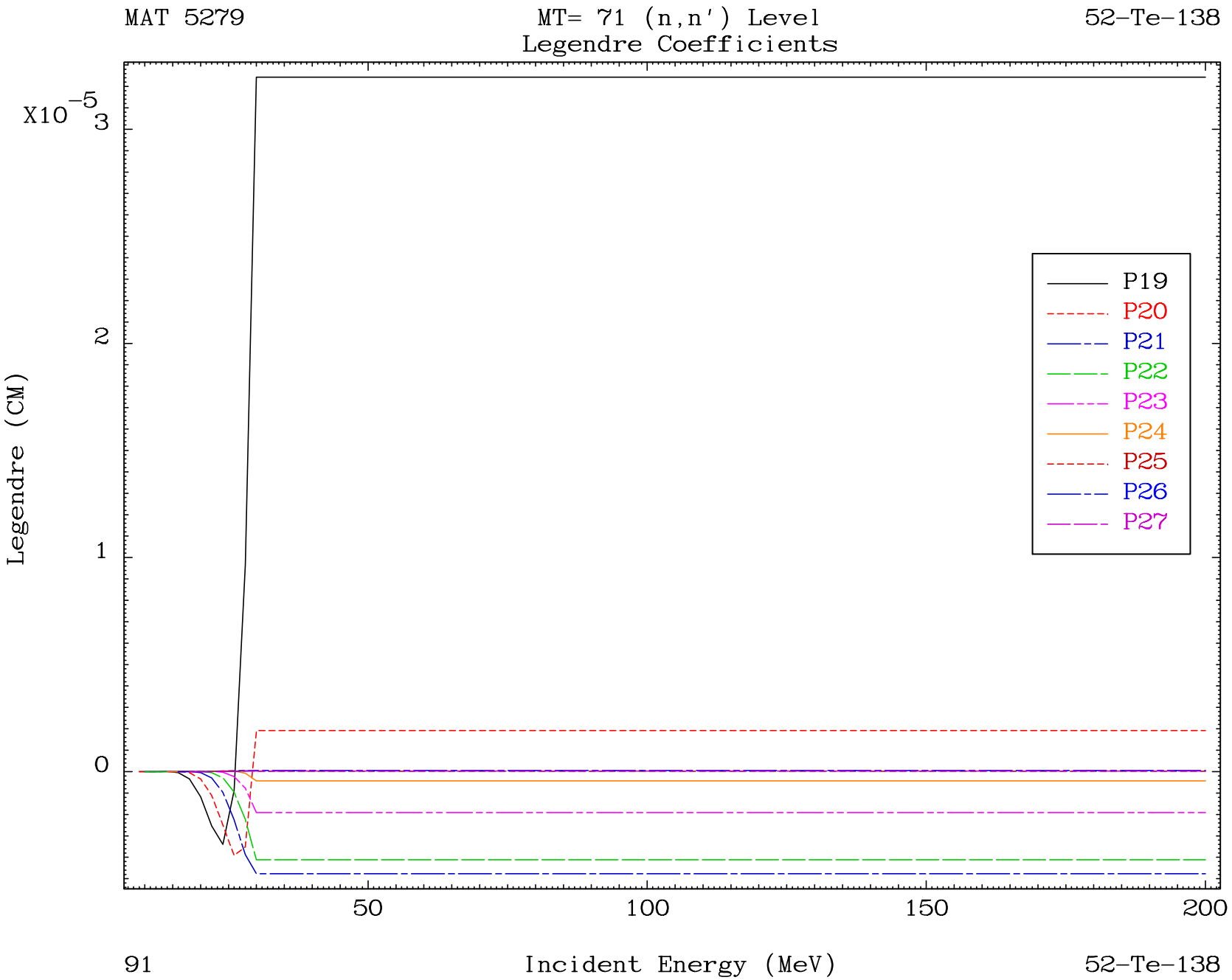

MAT 5279
MT= 70 (n,n') Level
Legendre Coefficients
52-Te-138
0.010
0.005
0.000
-0.005
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
50
100
150
200
86
Incident Energy (MeV)
52-Te-138

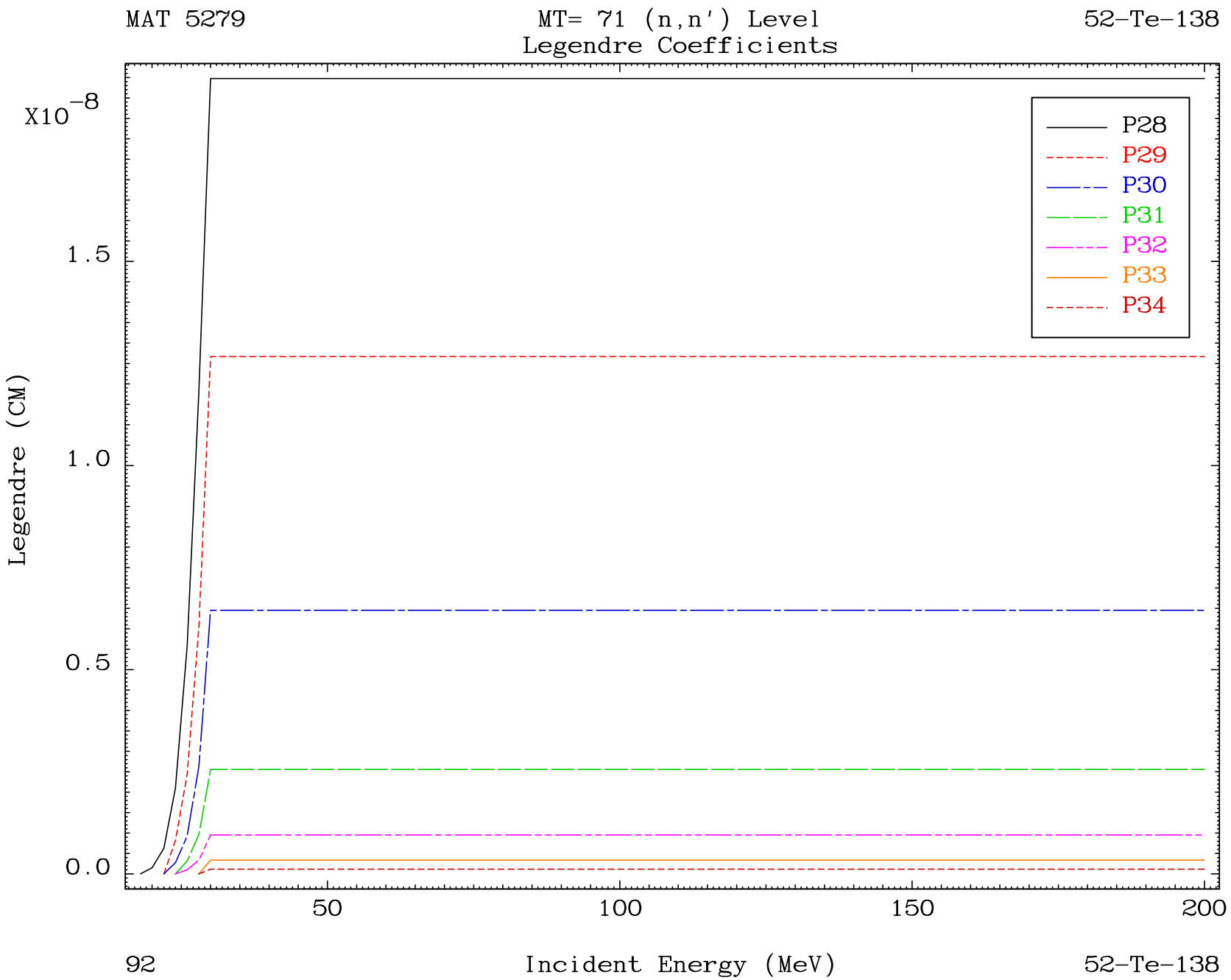

MAT 5279
MT= 70 (n,n') Level
Legendre Coefficients
52-Te-138
X10^-4
1.5
1.0
0.5
0.0
-0.5
-1.0
-1.5
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
87
Incident Energy (MeV)
52-Te-138

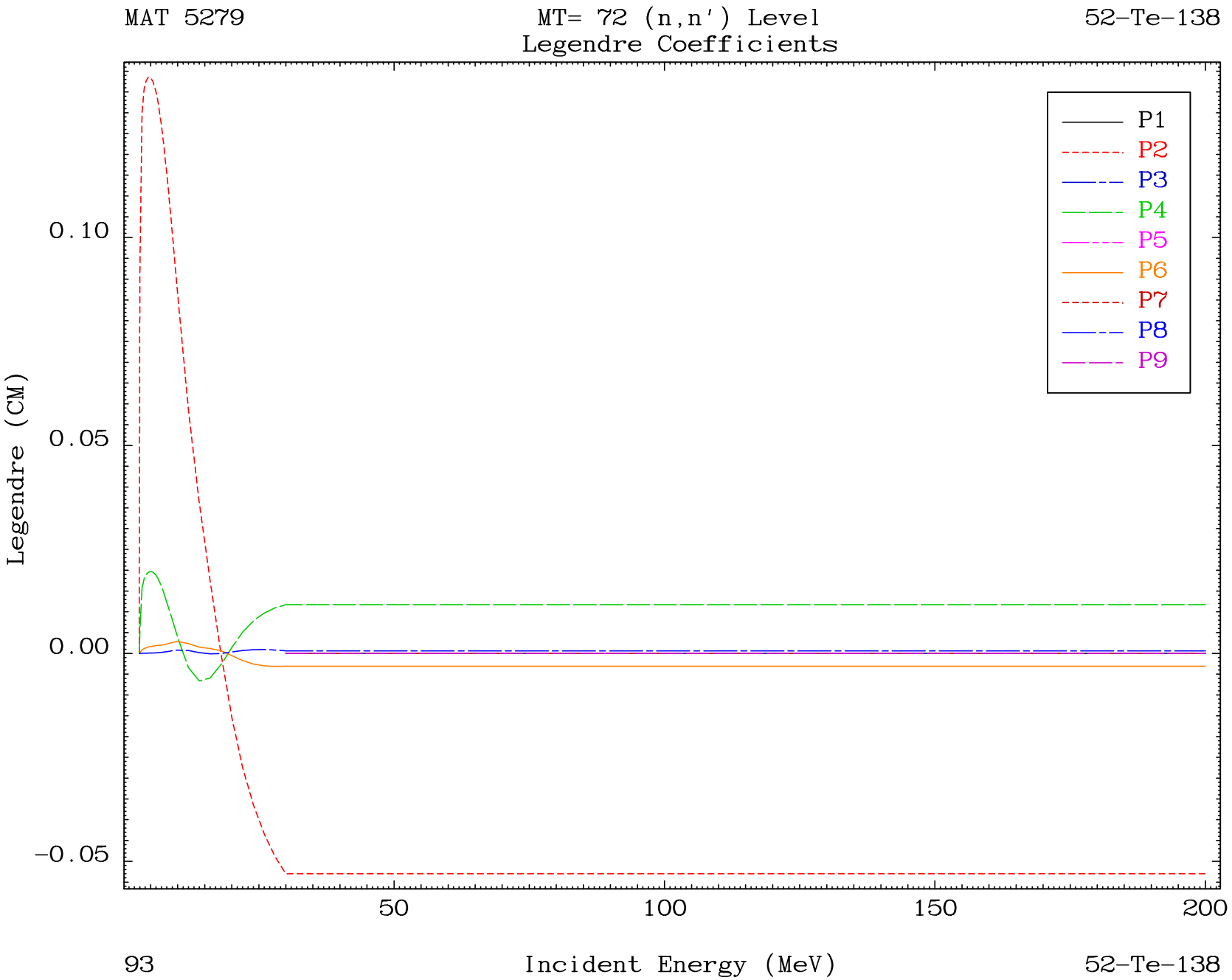

MAT 5279
MT= 70 (n,n') Level
Legendre Coefficients
52-Te-138
X10^-7
0
-2
-4
-6
-8
Legendre (CM)
50
100
150
200
88
Incident Energy (MeV)
52-Te-138
P28
P29
P30
P31
P32
P33
P34

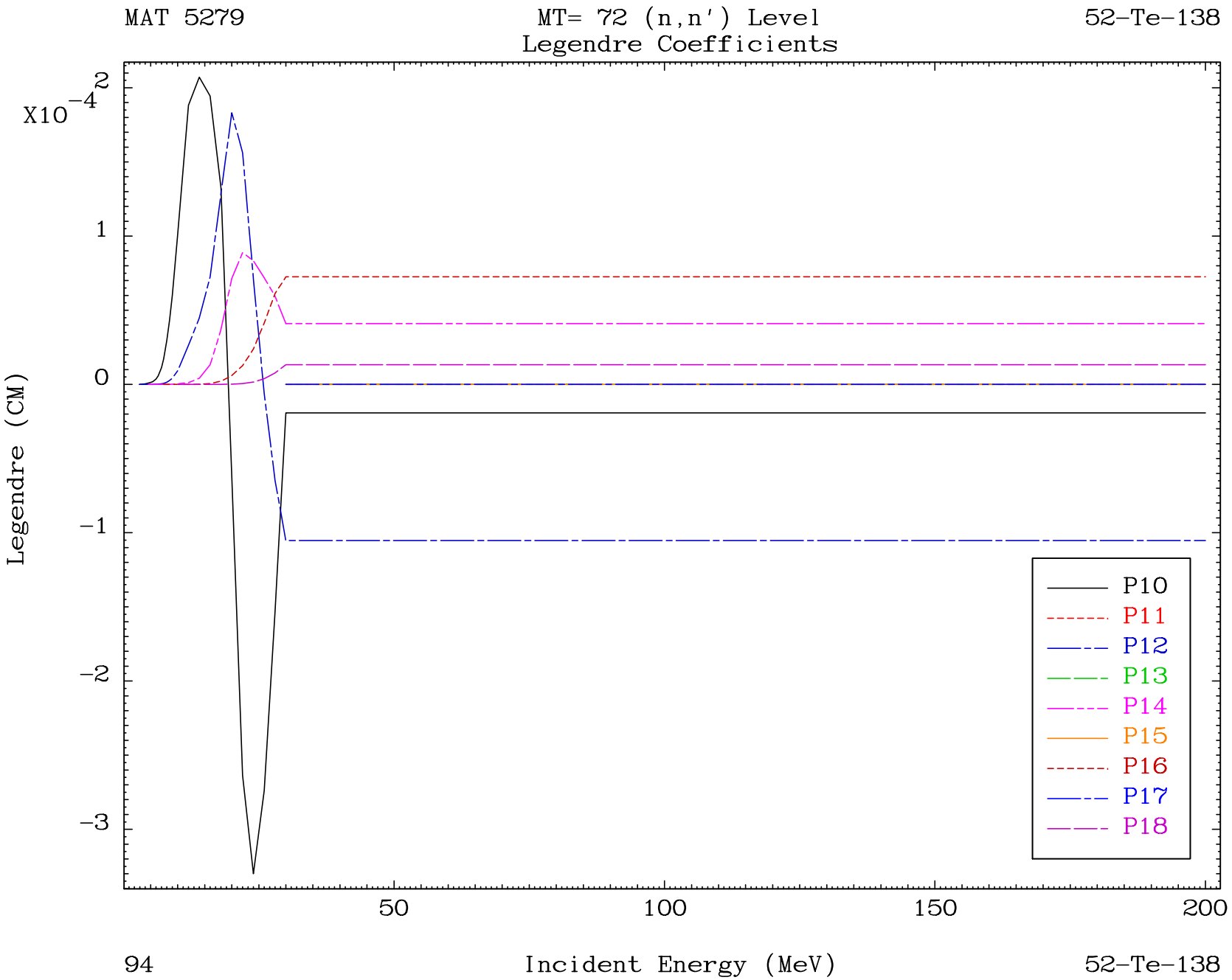

MAT 5279
MT= 71 (n,n') Level
Legendre Coefficients
52-Te-138
Legendre (CM)
0.3
0.2
0.1
0.0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
89
Incident Energy (MeV)
52-Te-138

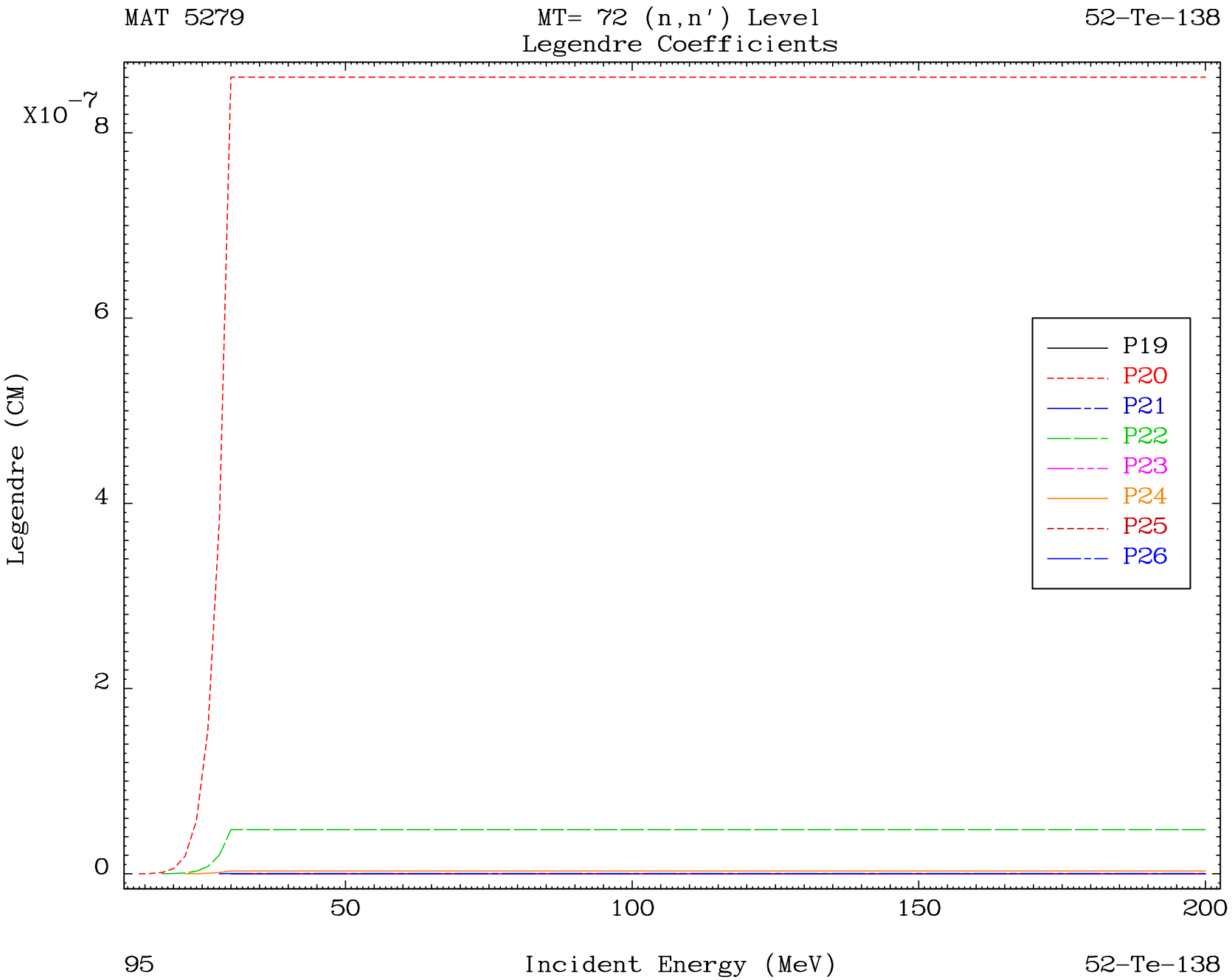

MAT 5279
MT= 71 (n,n') Level
Legendre Coefficients
52-Te-138
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.008
0.006
0.004
0.002
0.000
-0.002
Legendre (CM)
50
100
150
200
90
Incident Energy (MeV)
52-Te-138

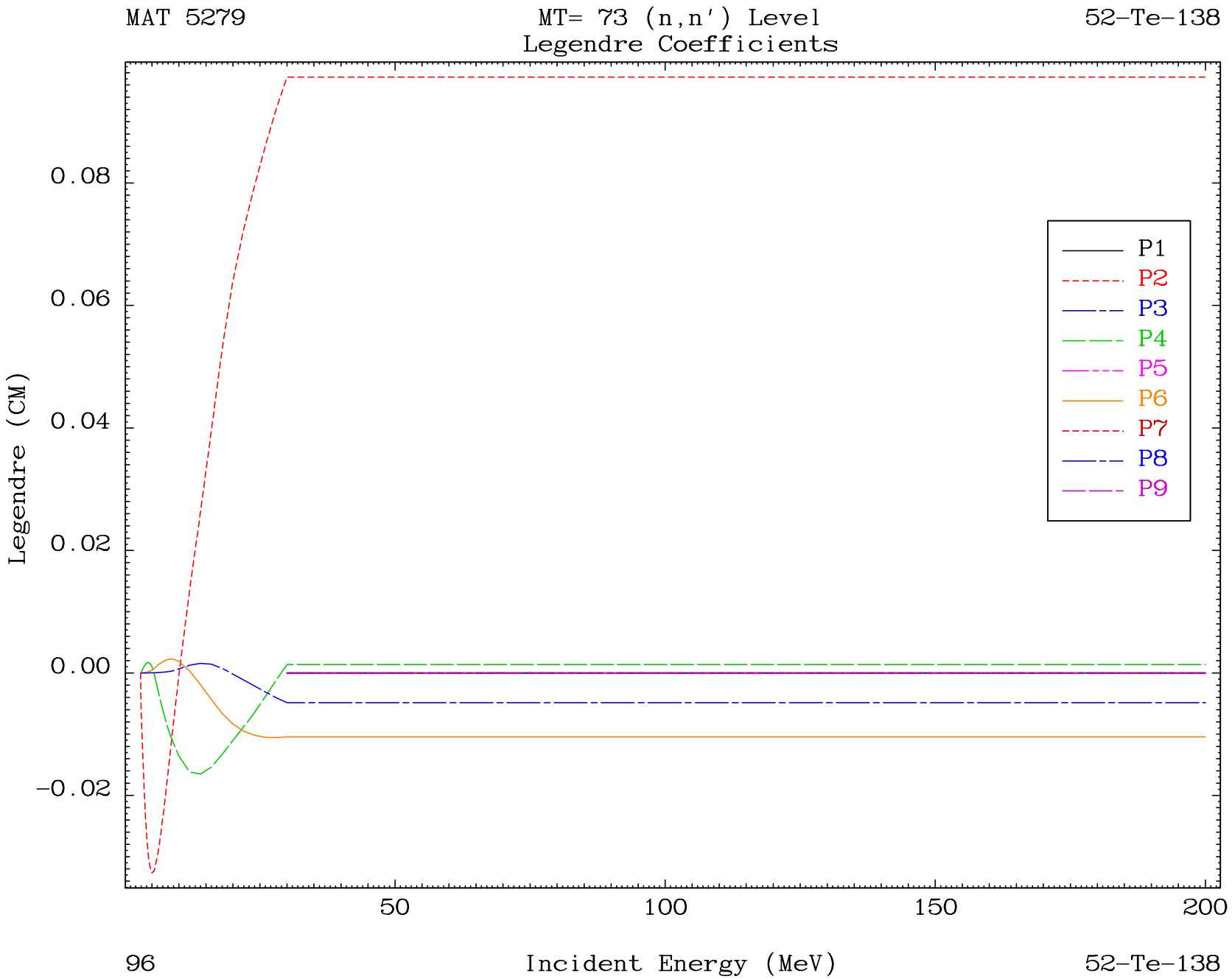

MAT 5279
MT= 71 (n,n') Level
Legendre Coefficients
52-Te-138
X10 -5
3
2
1
0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
91
Incident Energy (MeV)
52-Te-138

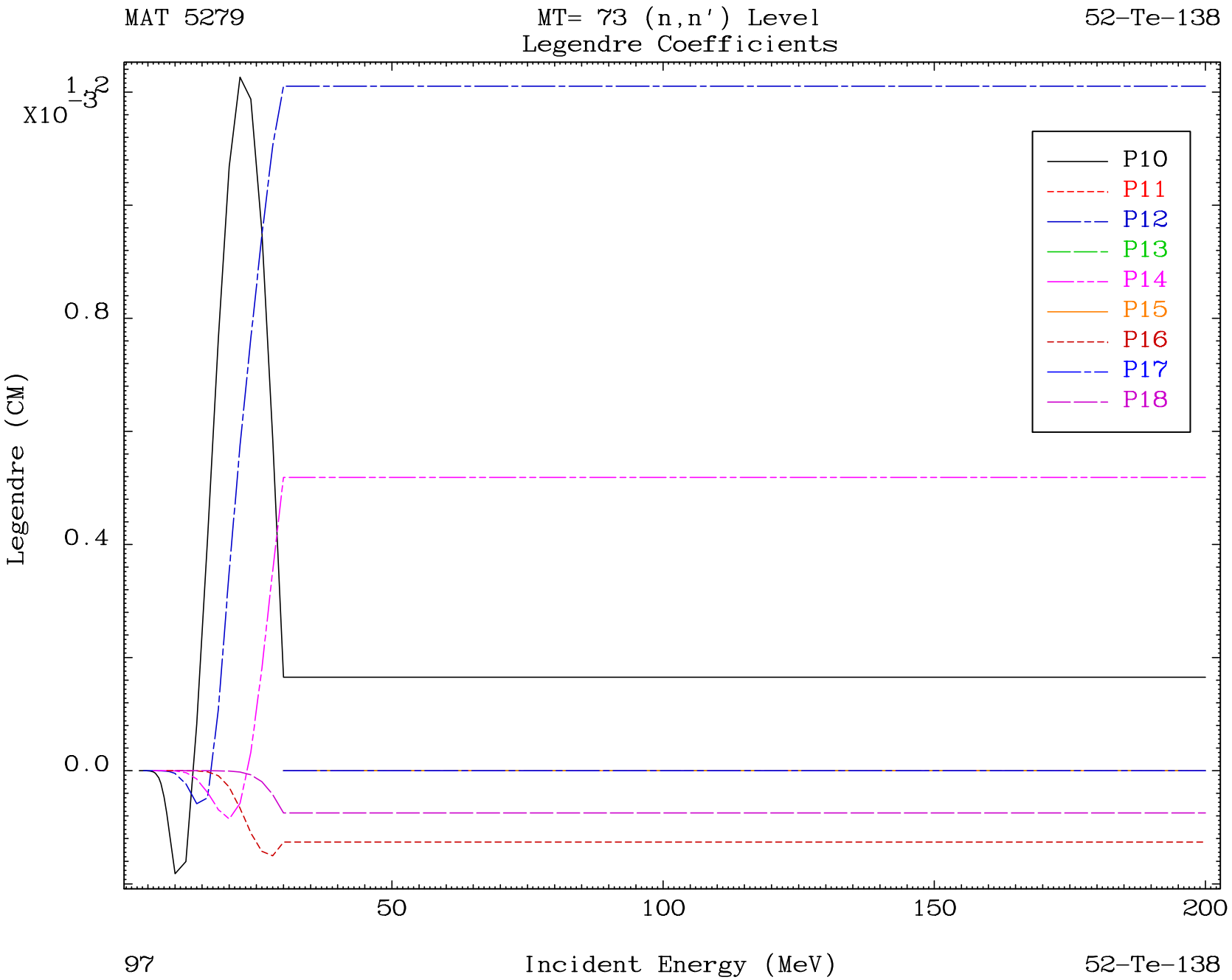

MAT 5279
MT= 71 (n,n') Level
Legendre Coefficients
52-Te-138
X10−8
1.5
1.0
0.5
0.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
92
Incident Energy (MeV)
52-Te-138

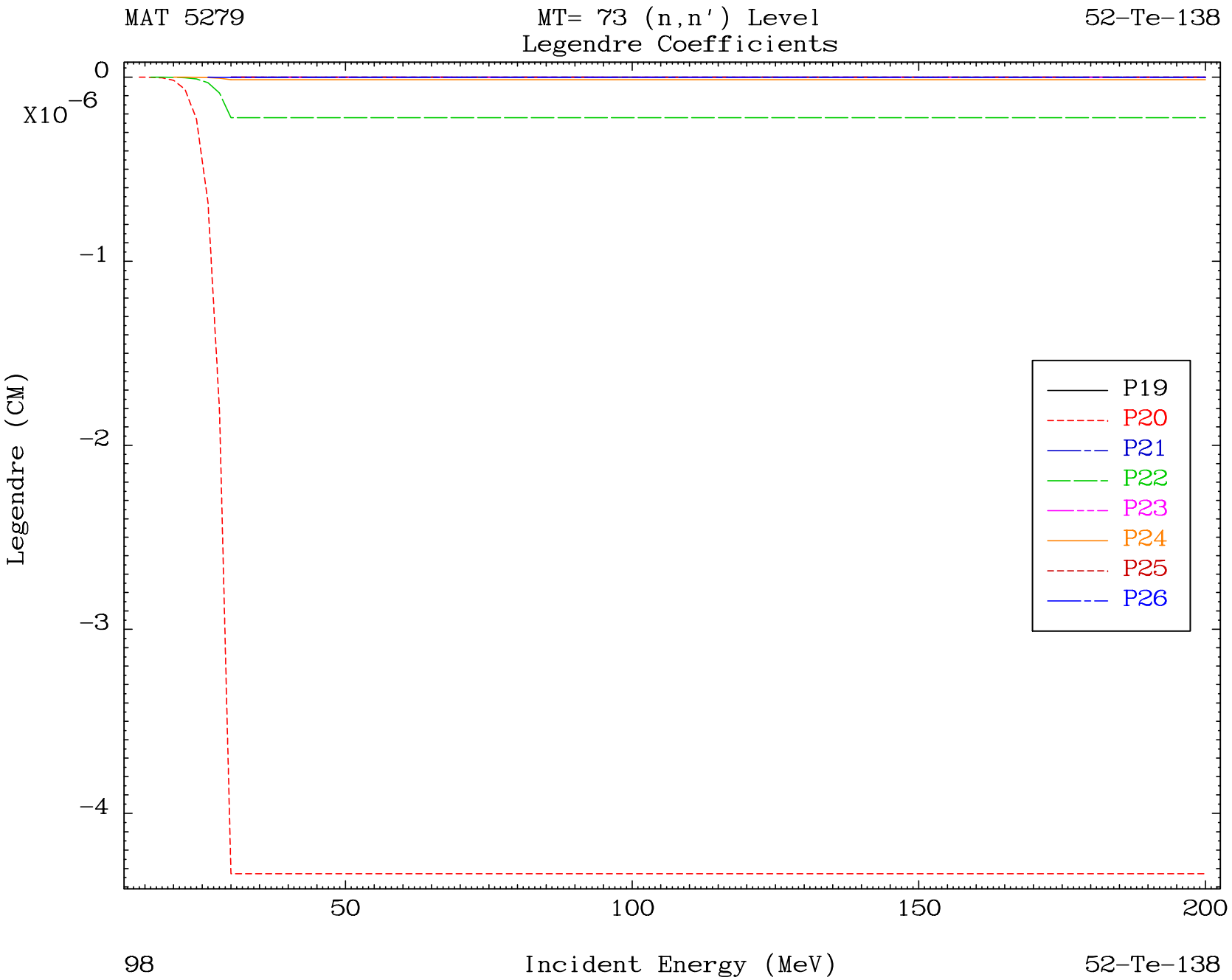

MAT 5279
MT= 72 (n,n') Level
Legendre Coefficients
52-Te-138
P1
P2
P3
P4
P5
P6
P7
P8
P9
0.10
0.05
0.00
-0.05
Legendre (CM)
50
100
150
200
93
Incident Energy (MeV)
52-Te-138

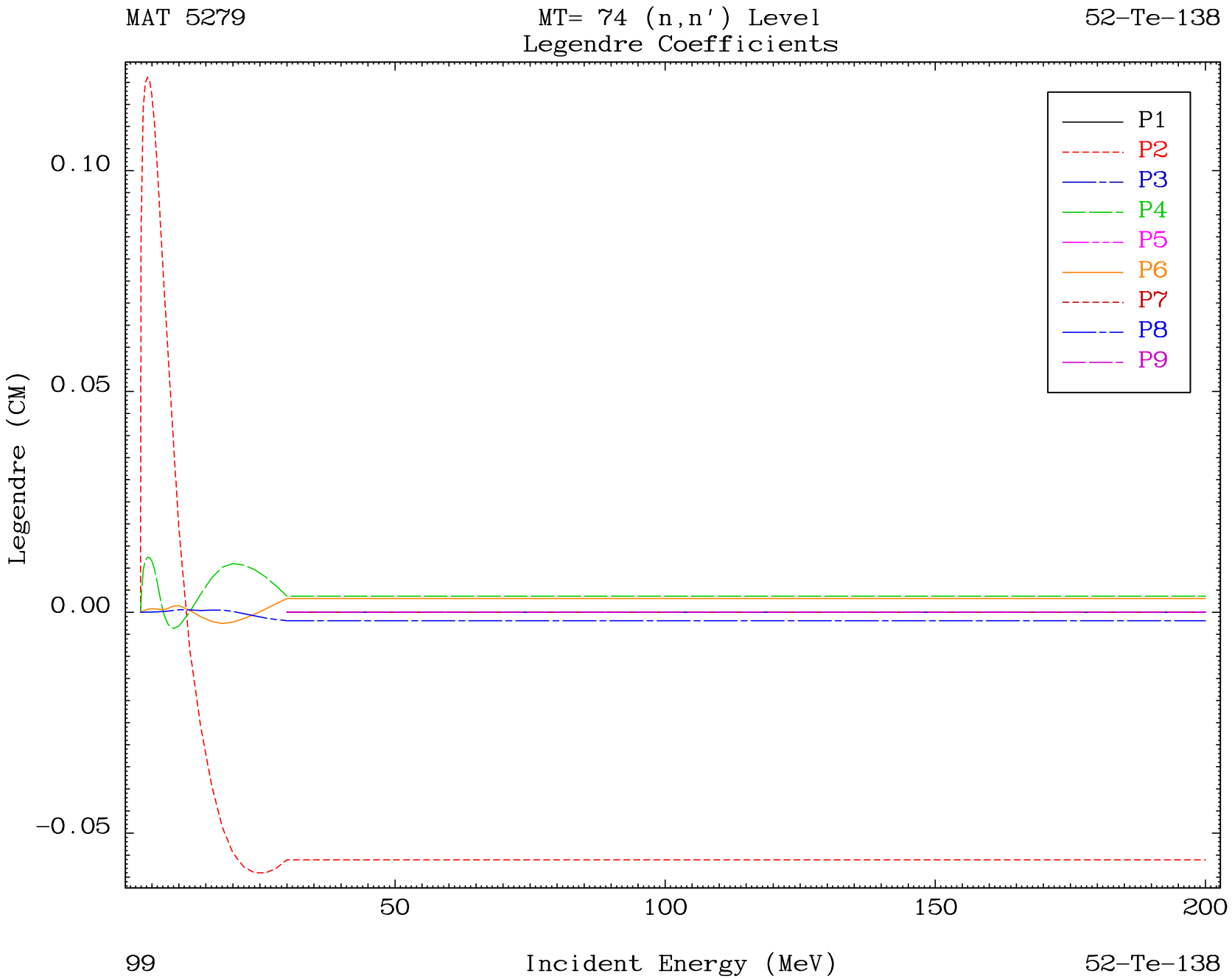

MAT 5279
MT= 72 (n,n') Level
Legendre Coefficients
52-Te-138
X10^-4
2
1
0
-1
-2
-3
Legendre (CM)
50
100
150
200
94
Incident Energy (MeV)
52-Te-138
P10
P11
P12
P13
P14
P15
P16
P17
P18

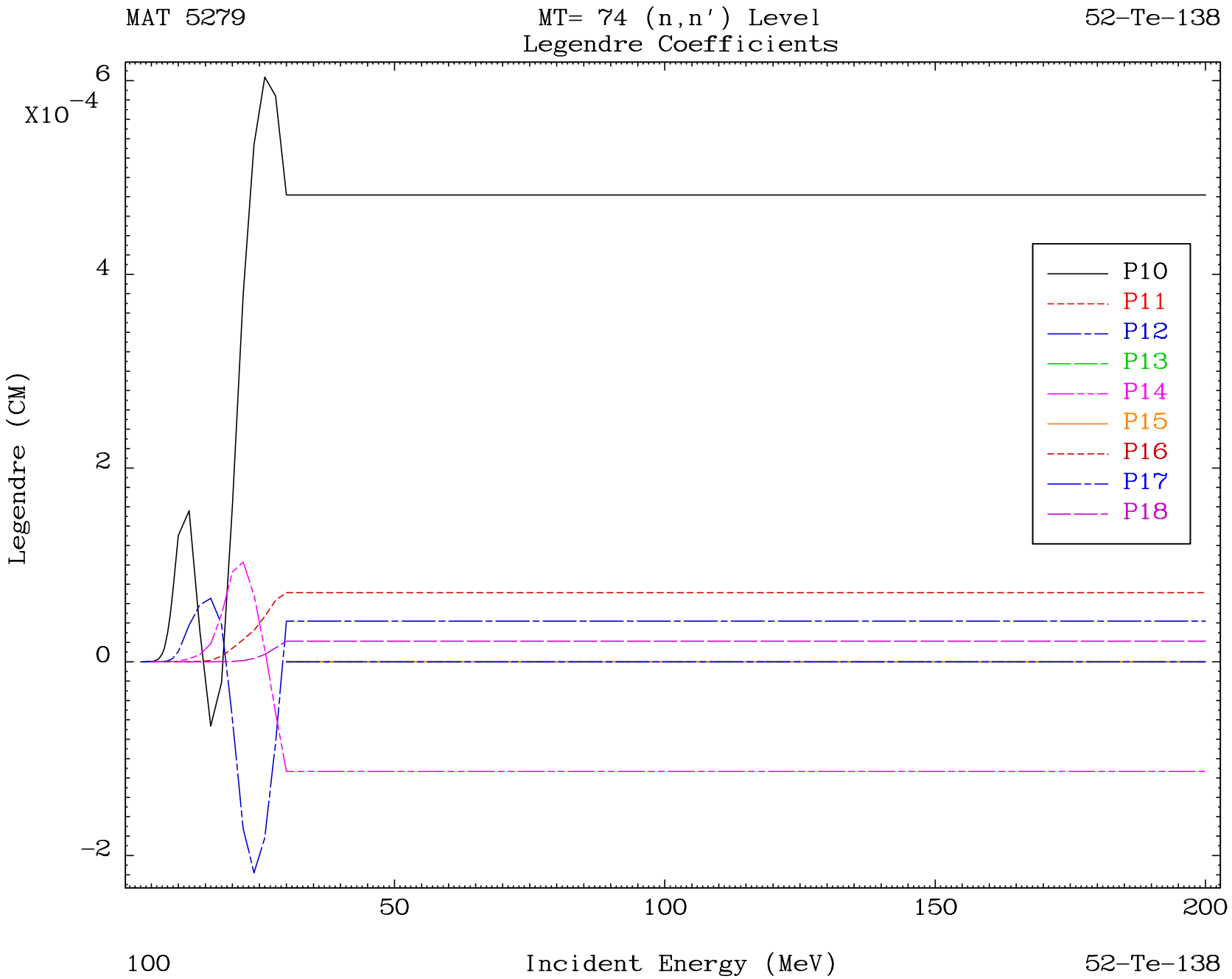

MAT 5279
MT= 72 (n,n') Level
Legendre Coefficients
52-Te-138
X10^-7
8
6
4
2
0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
50
100
150
200
95
Incident Energy (MeV)
52-Te-138

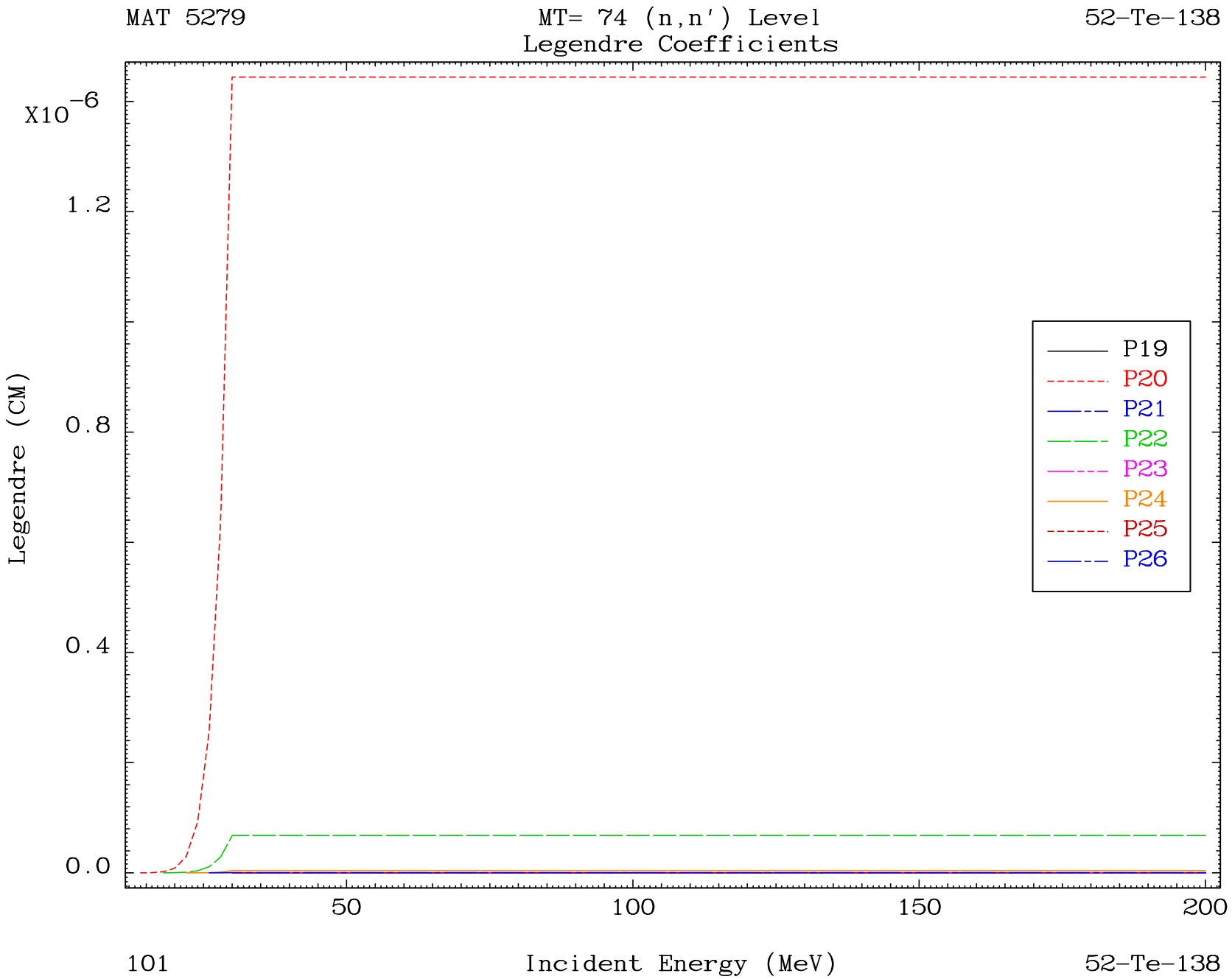

MAT 5279
MT= 73 (n,n') Level
Legendre Coefficients
52-Te-138
0.08
0.06
0.04
0.02
0.00
-0.02
Legendre (CM)
50
100
150
200
96
Incident Energy (MeV)
52-Te-138
P1
P2
P3
P4
P5
P6
P7
P8
P9

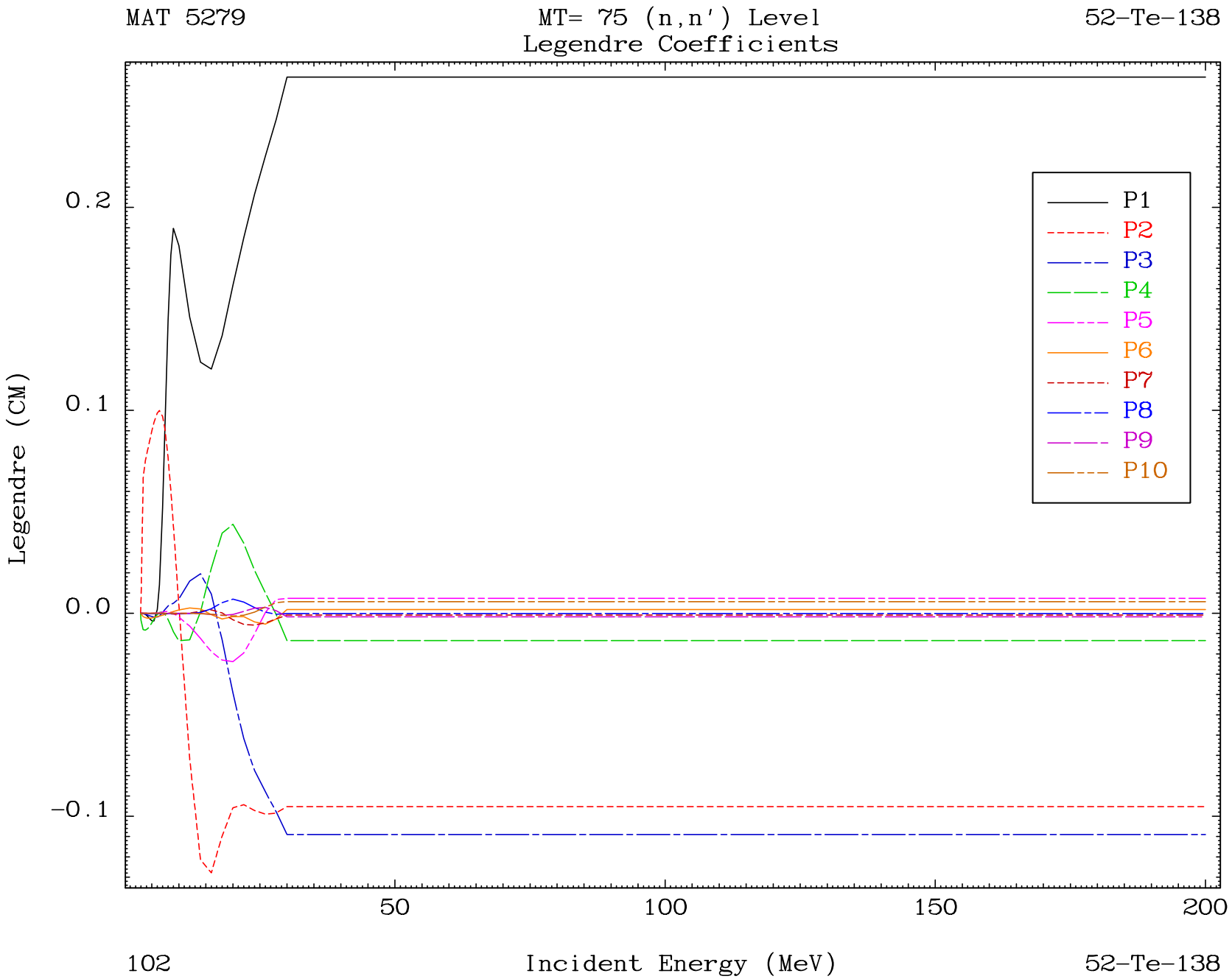

MAT 5279
MT= 73 (n,n') Level
Legendre Coefficients
52-Te-138
X10-3
1.2
0.8
0.4
0.0
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
50
100
150
200
97
Incident Energy (MeV)
52-Te-138

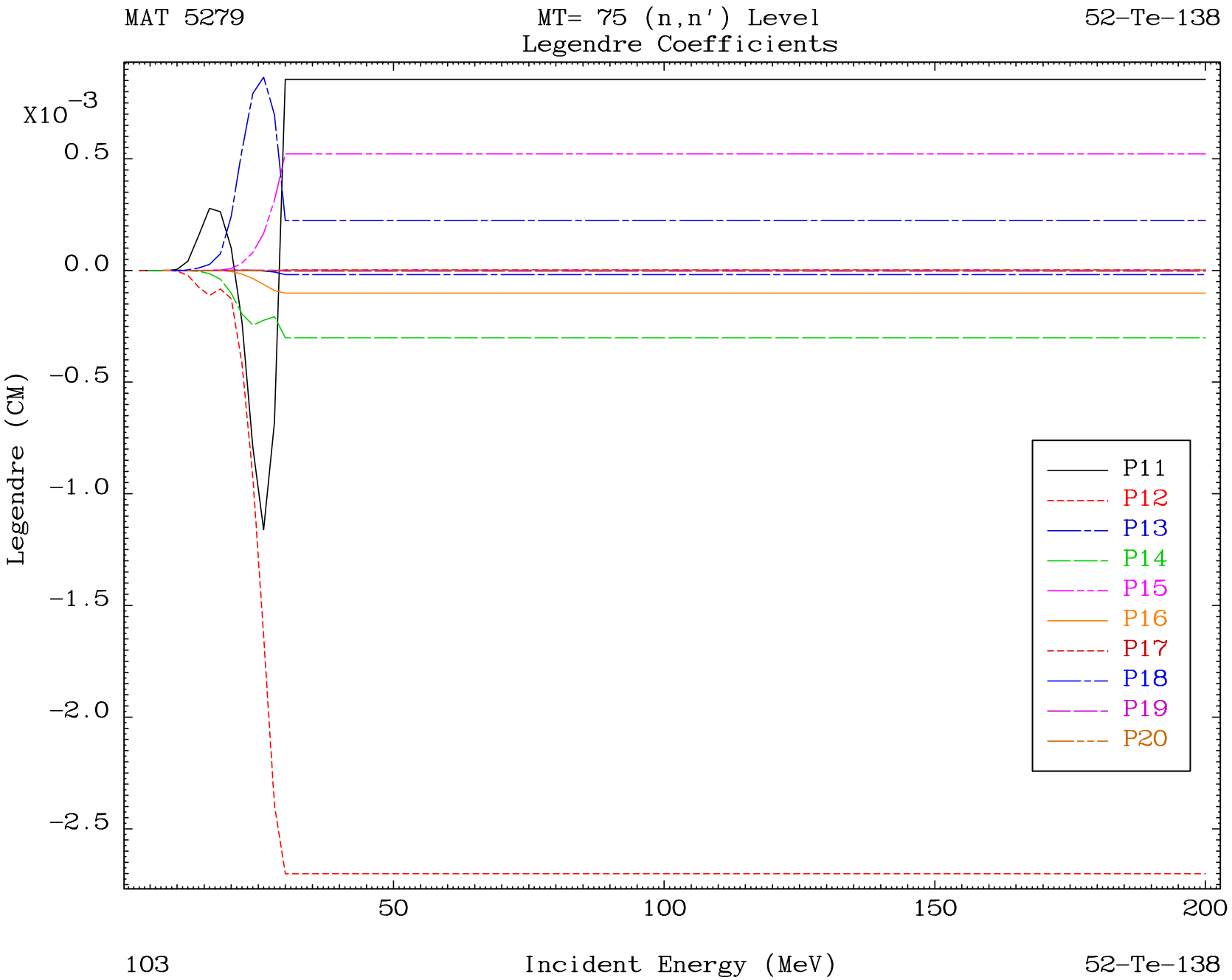

MAT 5279
MT= 73 (n,n') Level
Legendre Coefficients
52-Te-138
0
X10^-6
-1
-2
-3
-4
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
50
100
150
200
98
Incident Energy (MeV)
52-Te-138

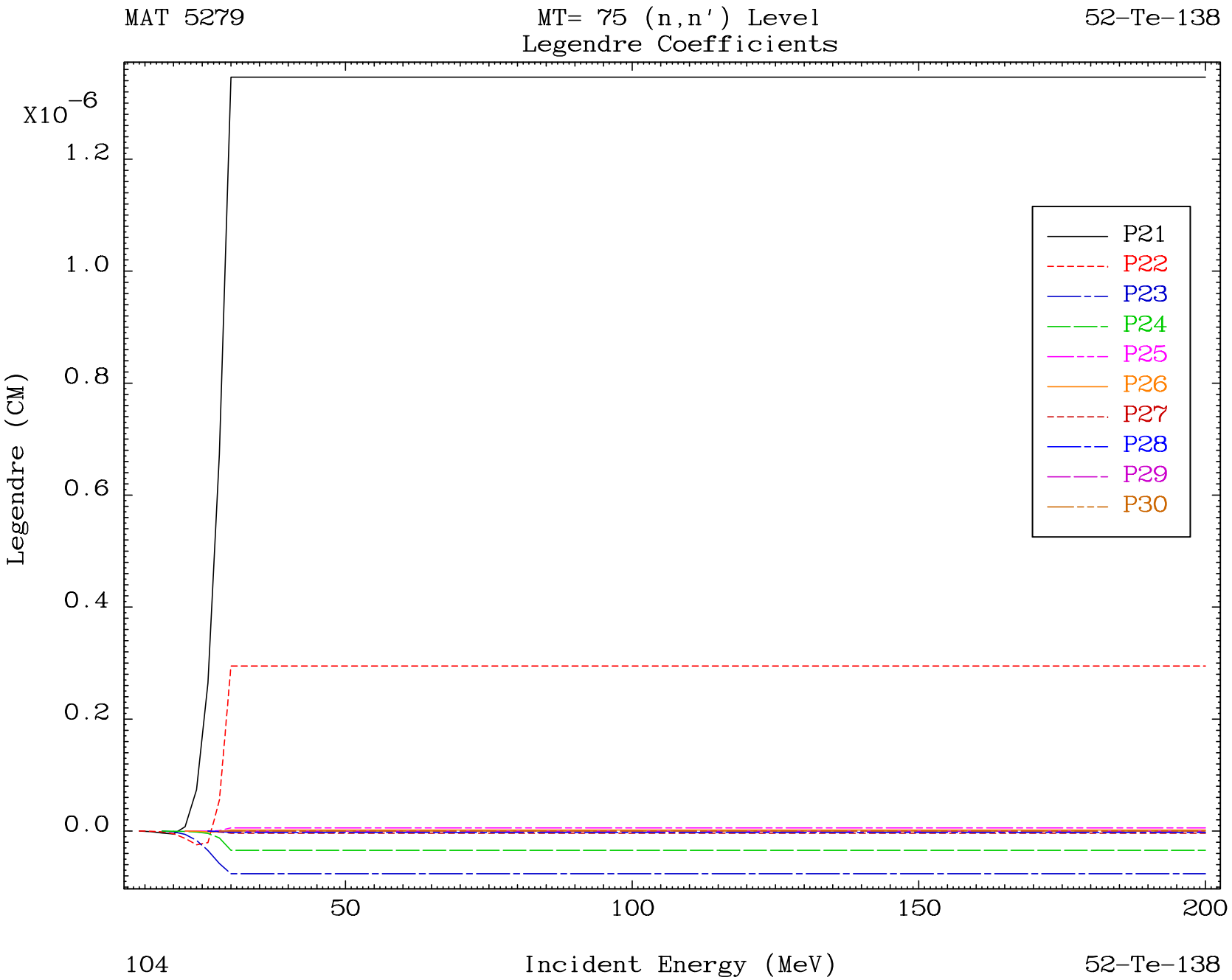

MAT 5279
MT= 74 (n,n') Level
Legendre Coefficients
52-Te-138
P1
P2
P3
P4
P5
P6
P7
P8
P9
0.10
0.05
0.00
-0.05
Legendre (CM)
50
100
150
200
99
Incident Energy (MeV)
52-Te-138

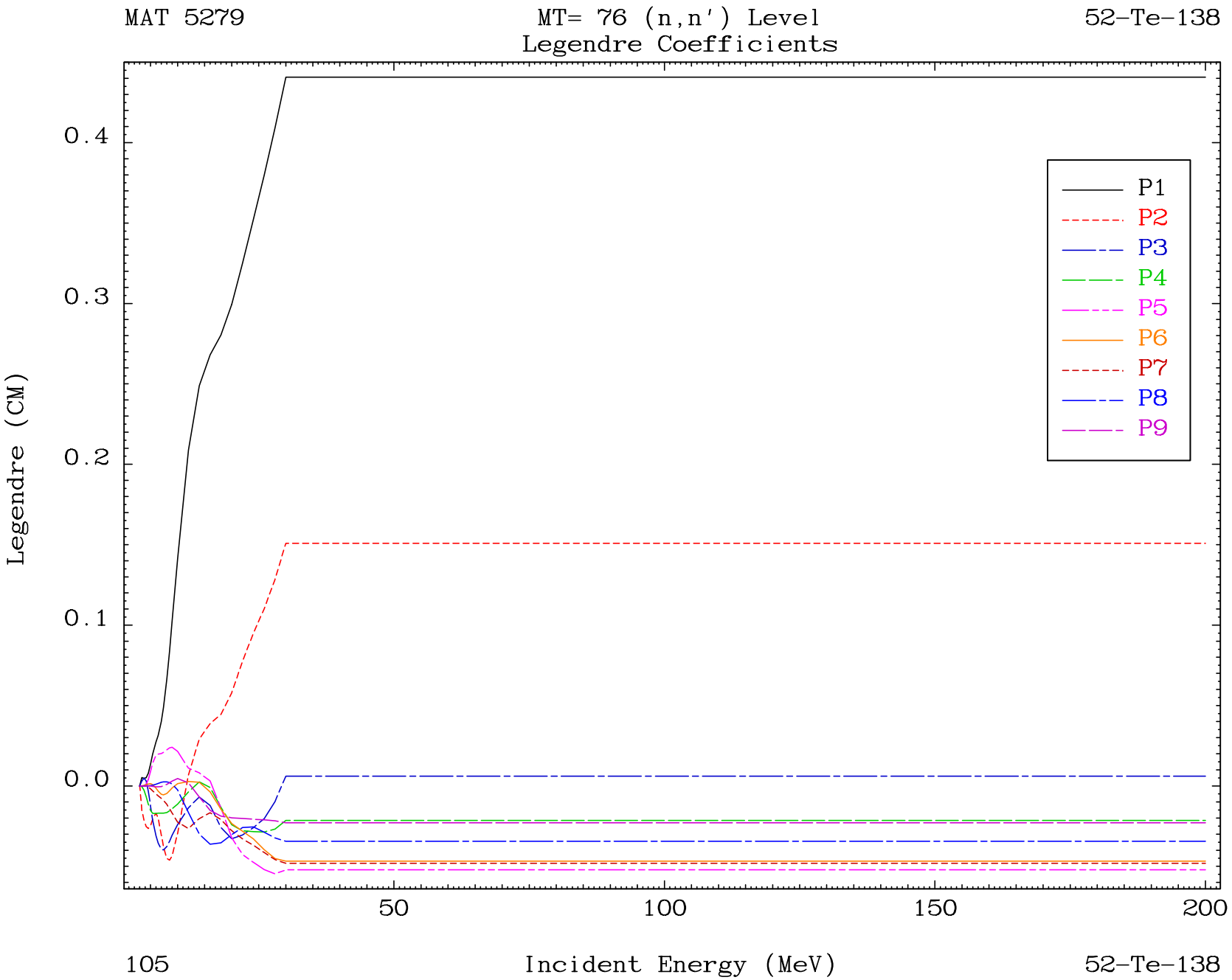

MAT 5279
MT= 74 (n,n') Level
Legendre Coefficients
52-Te-138
X10^-4
6
4
2
0
-2
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
50
100
150
200
100
Incident Energy (MeV)
52-Te-138

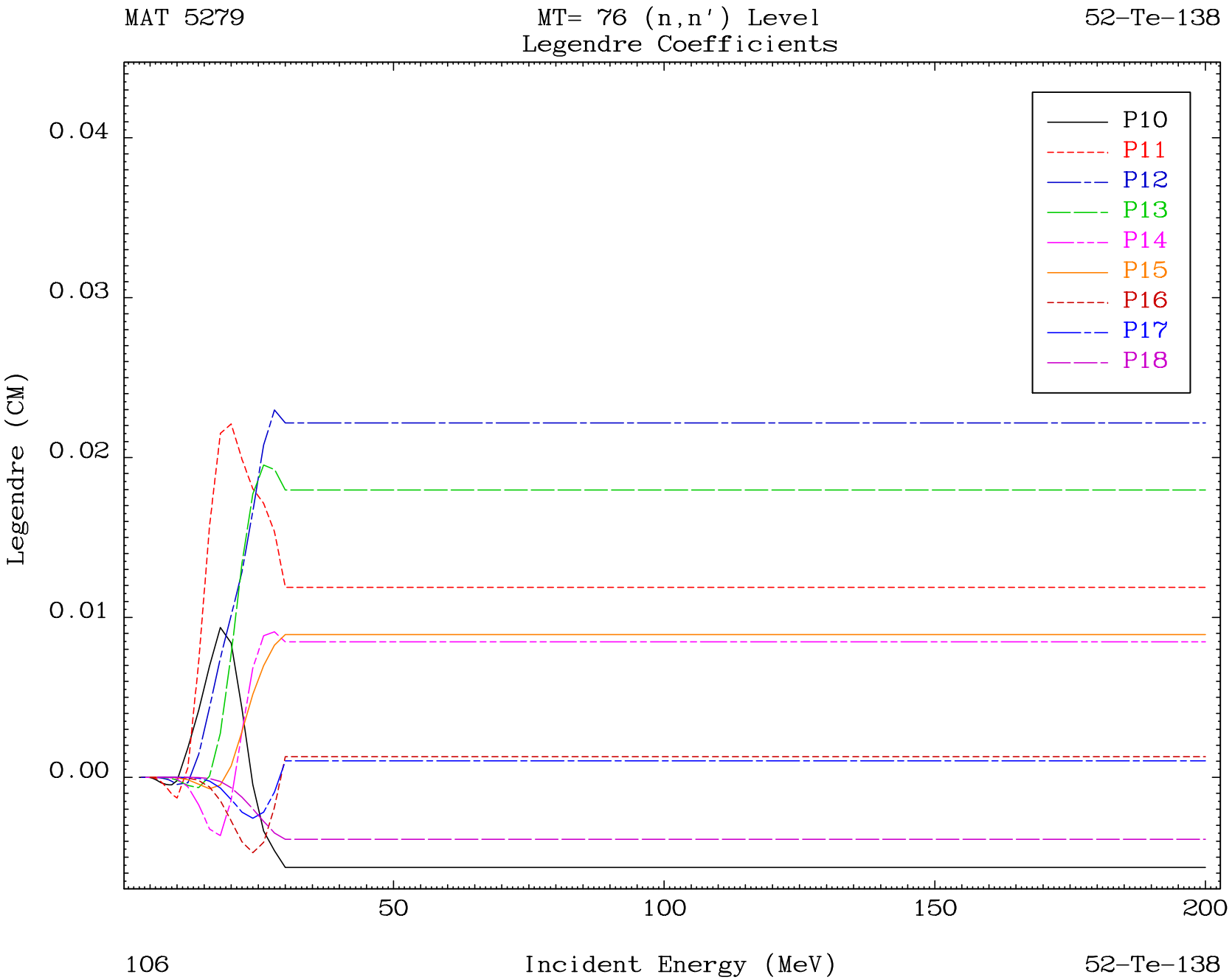

MAT 5279
MT= 74 (n,n') Level
Legendre Coefficients
52-Te-138
X10^-6
1.2
0.8
0.4
0.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
50
100
150
200
101
Incident Energy (MeV)
52-Te-138

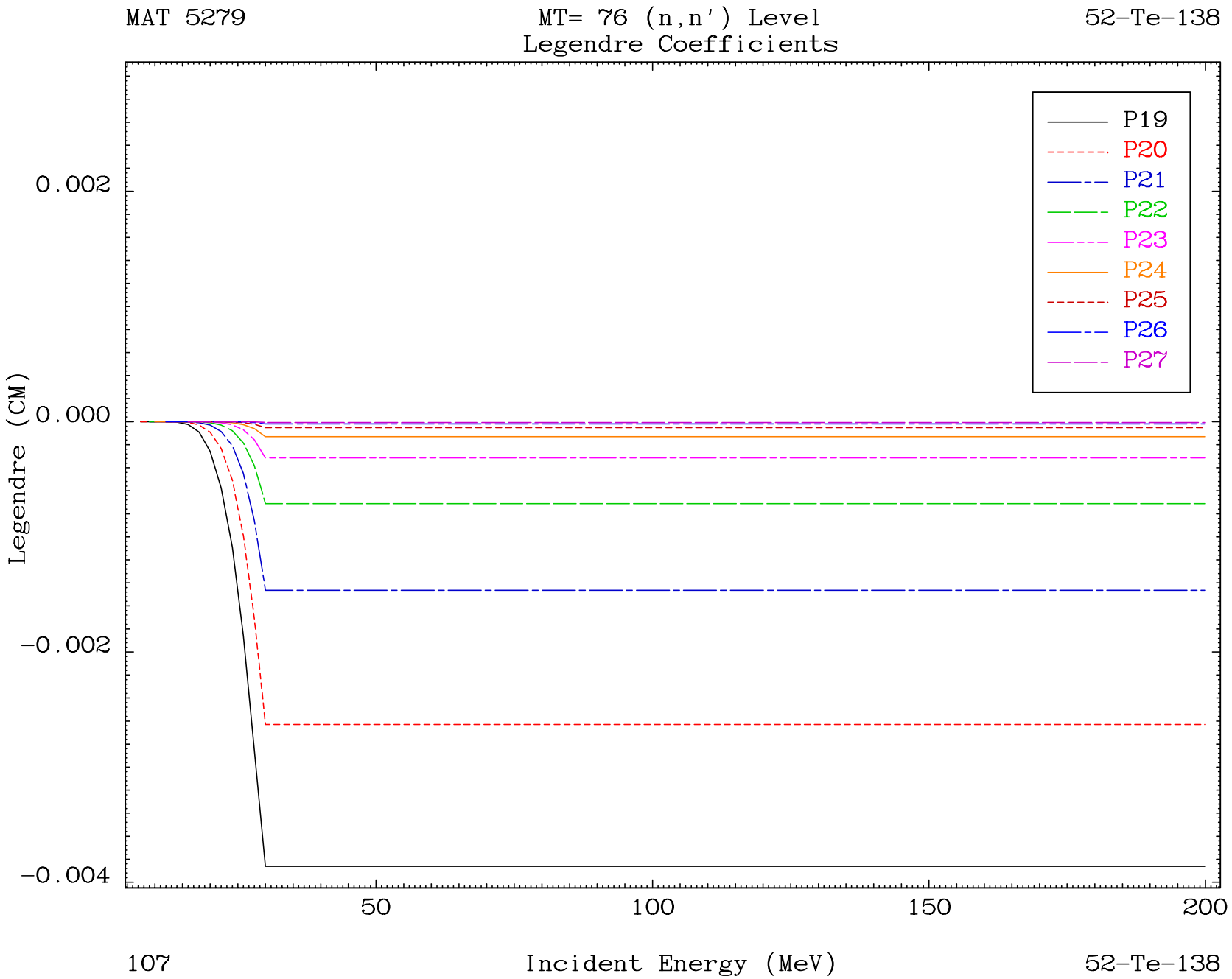

MAT 5279
MT= 75 (n,n') Level
Legendre Coefficients
52-Te-138
0.2
0.1
0.0
-0.1
Legendre (CM)
50
100
150
200
102
Incident Energy (MeV)
52-Te-138
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10

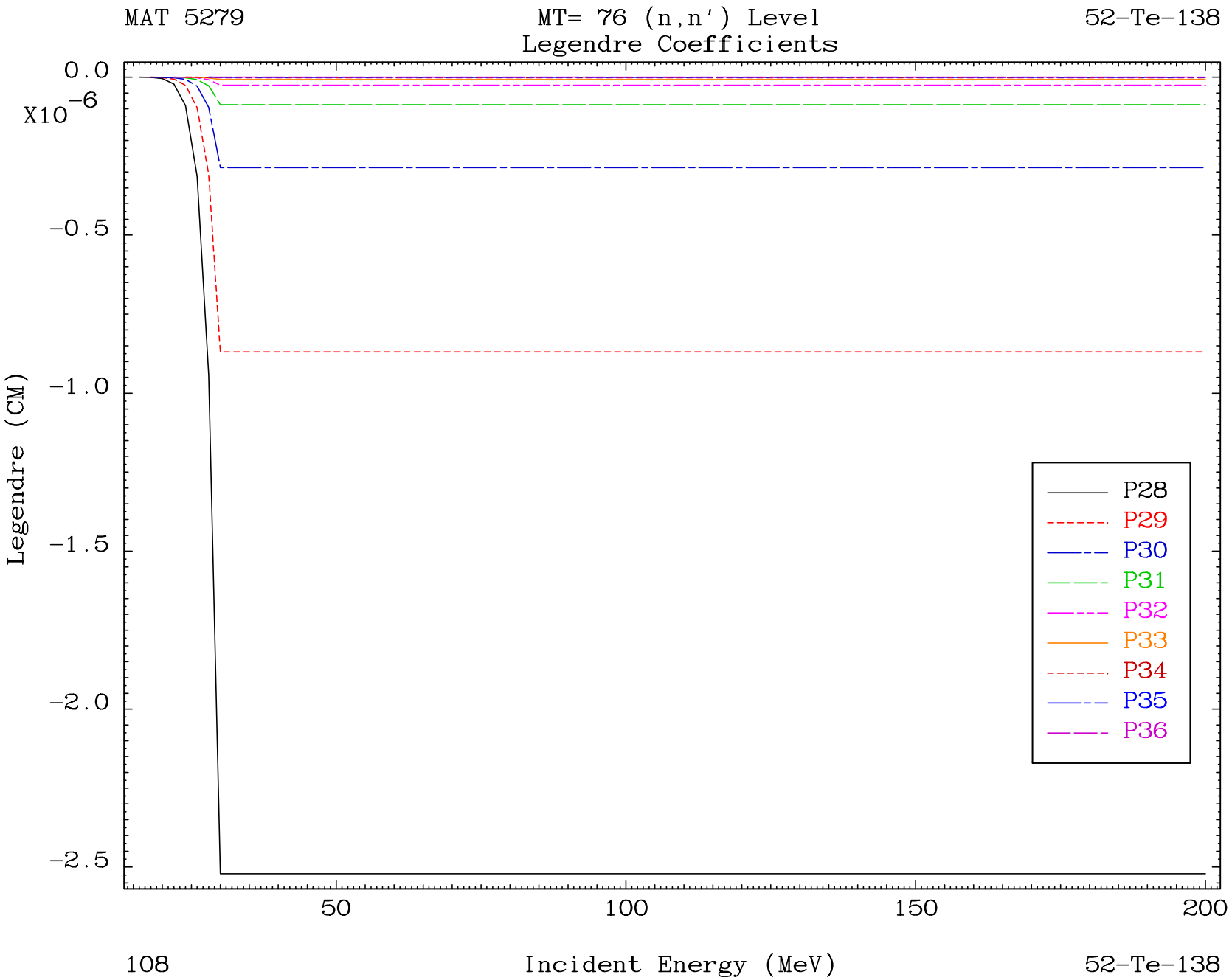

MAT 5279
MT= 75 (n,n') Level
Legendre Coefficients
52-Te-138
X10^-3
0.5
0.0
-0.5
-1.0
-1.5
-2.0
-2.5
Legendre (CM)
50
100
150
200
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
103
Incident Energy (MeV)
52-Te-138


MAT 5279
MT= 75 (n,n') Level
Legendre Coefficients
52-Te-138
X10^-6
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
104
Incident Energy (MeV)
52-Te-138


MAT 5279
MT= 76 (n,n') Level
Legendre Coefficients
52-Te-138
0.4
0.3
0.2
0.1
0.0
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
50
100
150
200
105
Incident Energy (MeV)
52-Te-138


MAT 5279
MT= 76 (n,n') Level
Legendre Coefficients
52-Te-138
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.04
0.03
0.02
0.01
0.00
Legendre (CM)
50
100
150
200
106
Incident Energy (MeV)
52-Te-138


MAT 5279
MT= 76 (n,n') Level
Legendre Coefficients
52-Te-138
P19
P20
P21
P22
P23
P24
P25
P26
P27
0.002
0.000
-0.002
-0.004
Legendre (CM)
50
100
150
200
107
Incident Energy (MeV)
52-Te-138


MAT 5279
MT= 76 (n,n') Level
Legendre Coefficients
52-Te-138
0.0
X10^-6
-0.5
-1.0
-1.5
-2.0
-2.5
Legendre (CM)
50
100
150
200
108
Incident Energy (MeV)
52-Te-138
P28
P29
P30
P31
P32
P33
P34
P35
P36