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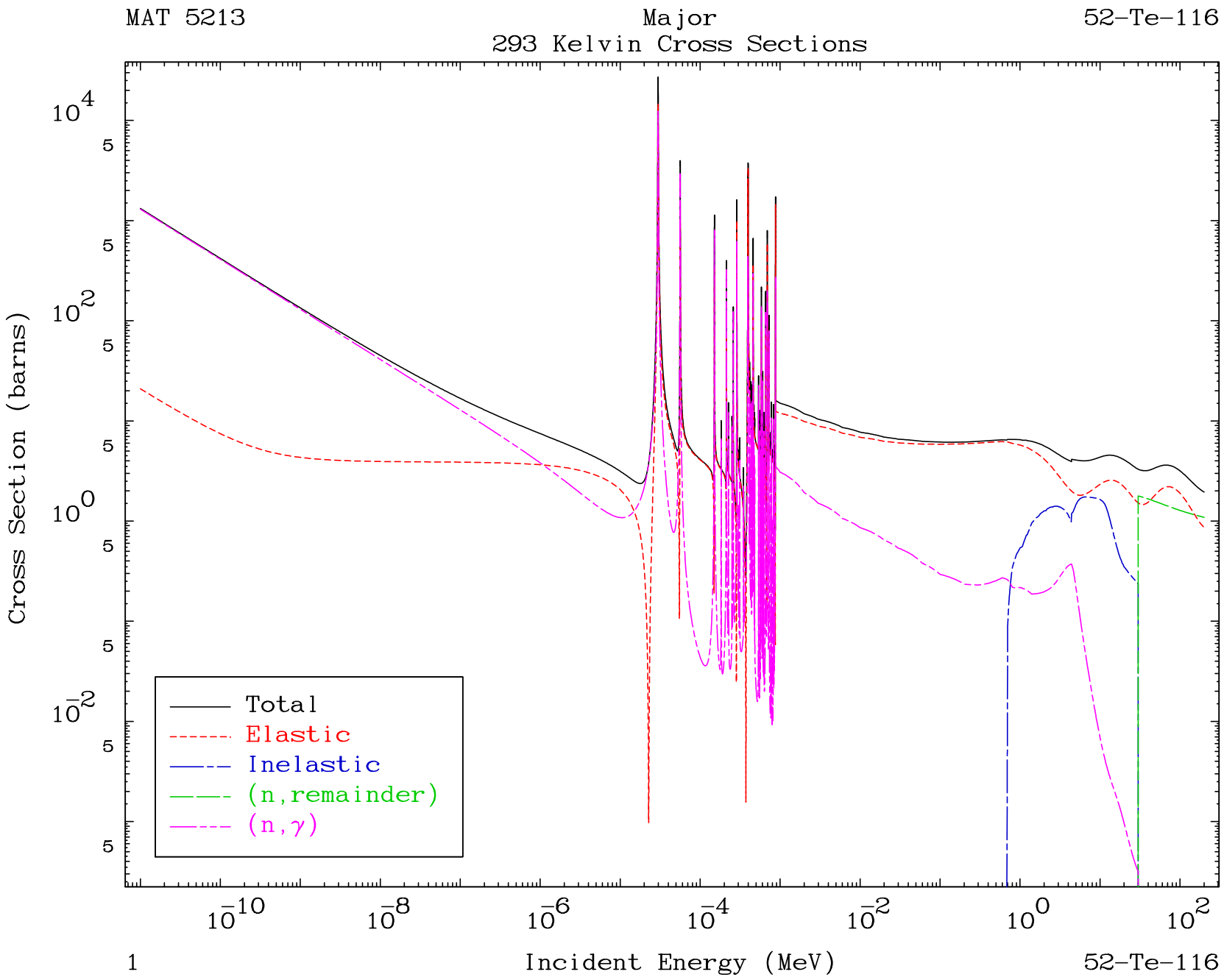
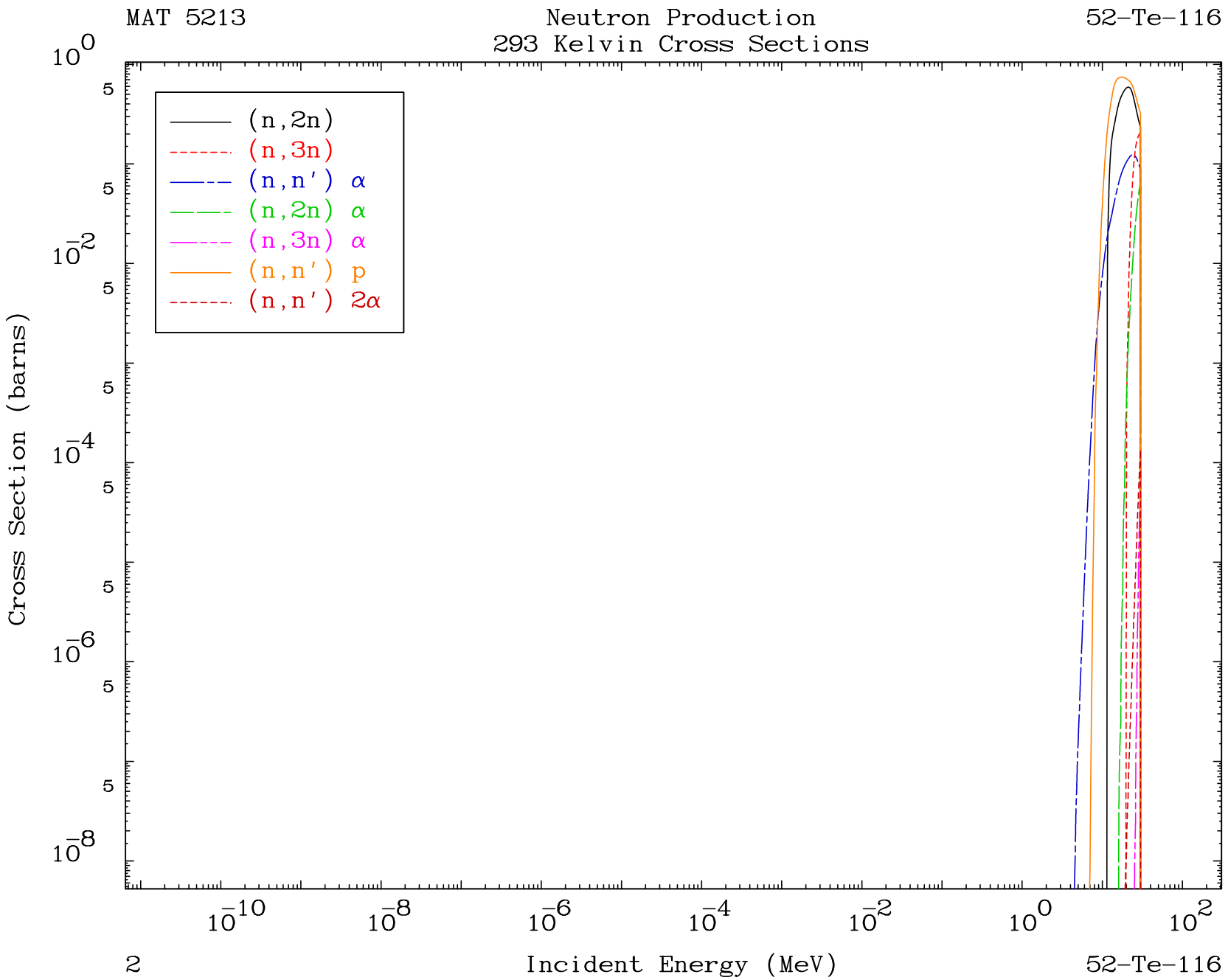
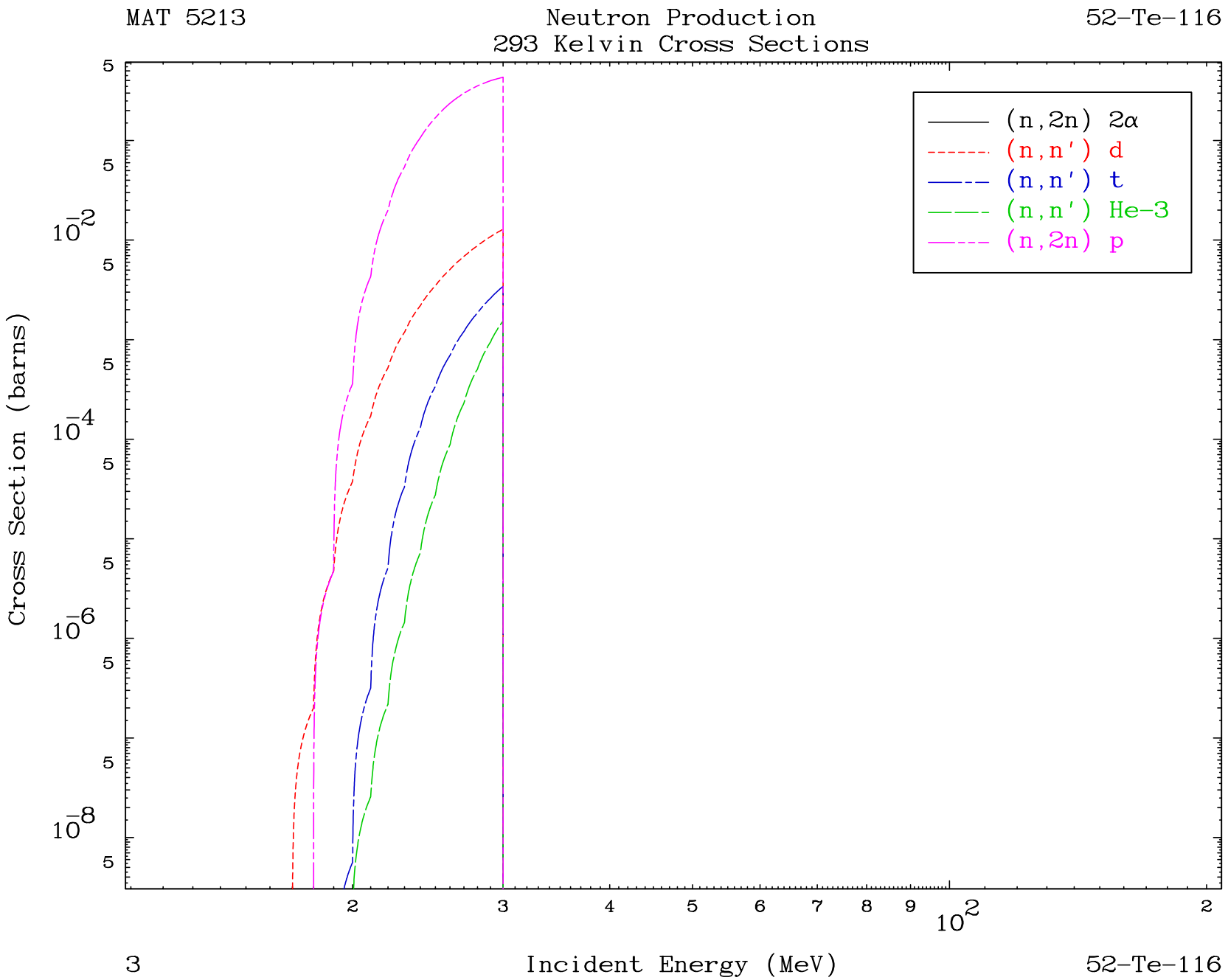
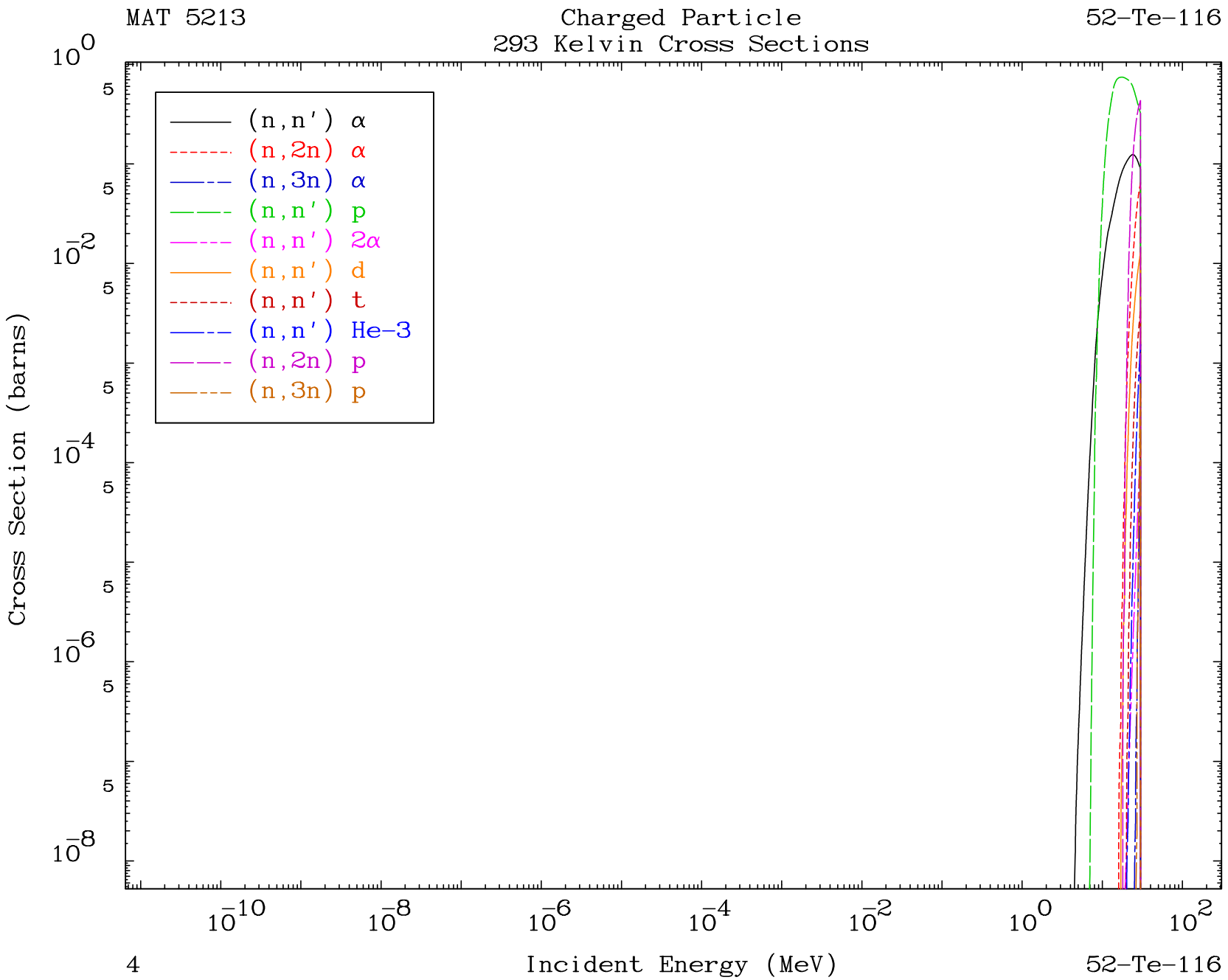
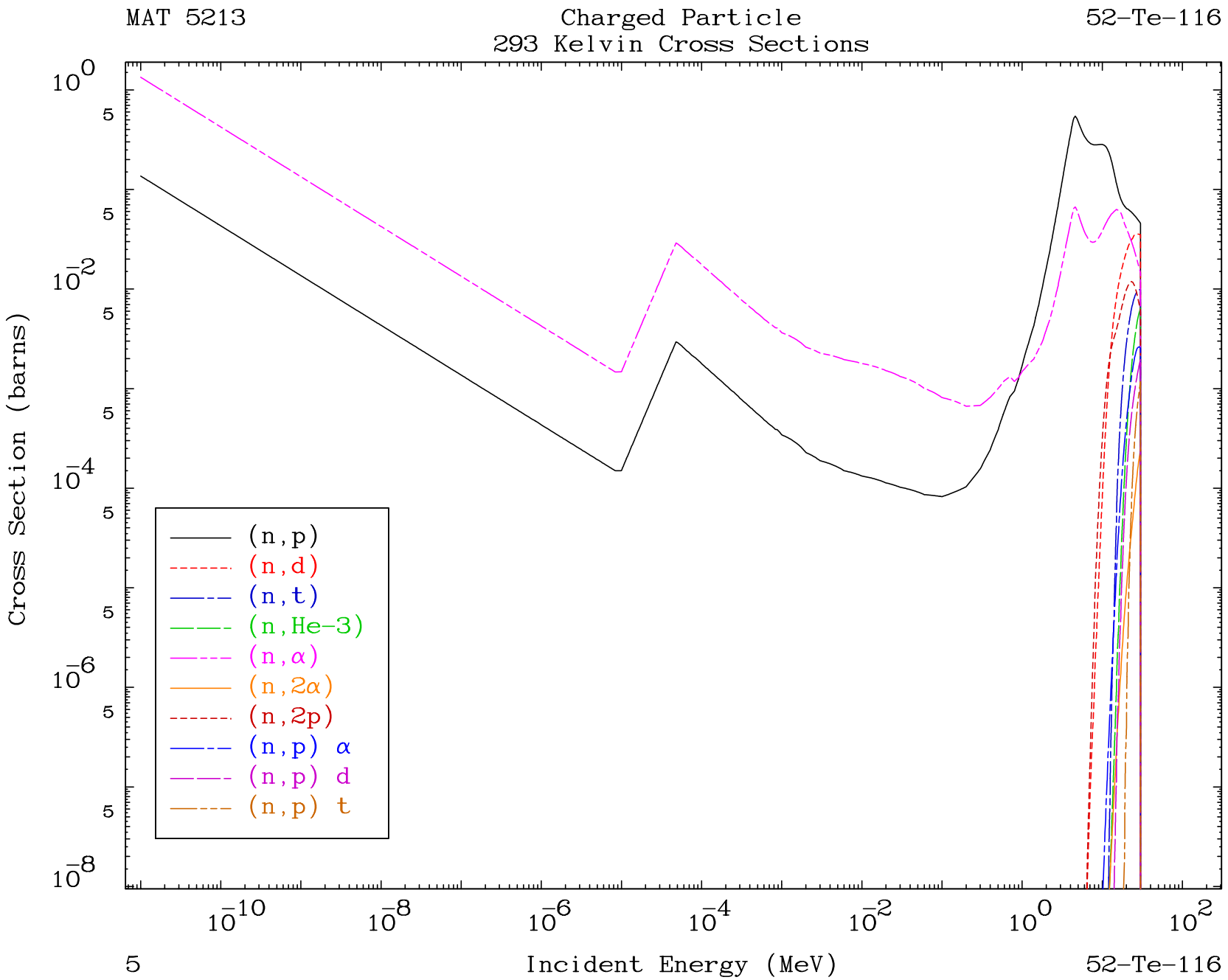
Press Mouse Button to Start

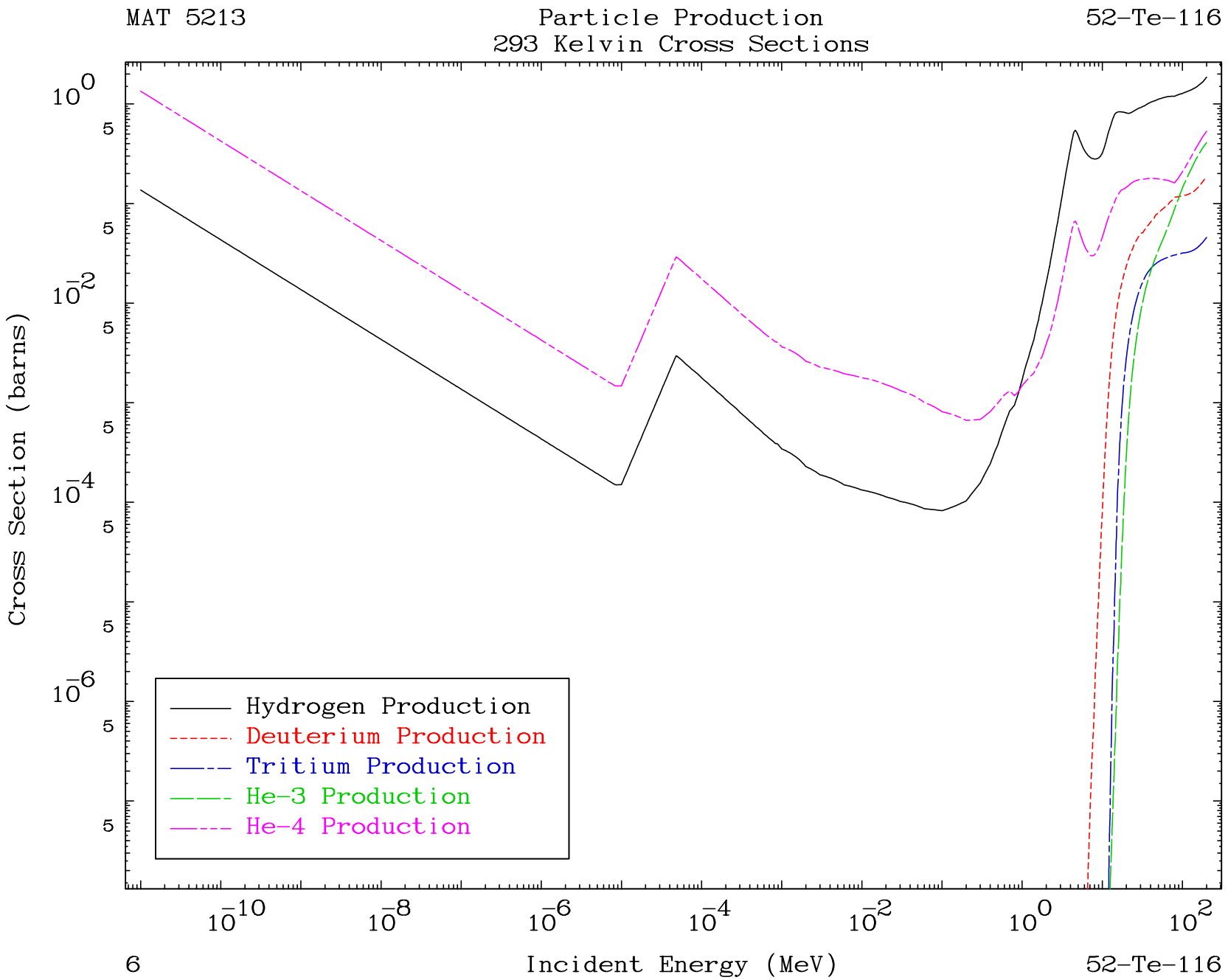

MAT 5213
Major
52-Te-116
293 Kelvin Cross Sections
Cross Section (barns)
Incident Energy (MeV)
Total
Elastic
Inelastic
(n,remainder)
(n,γ)
1
52-Te-116

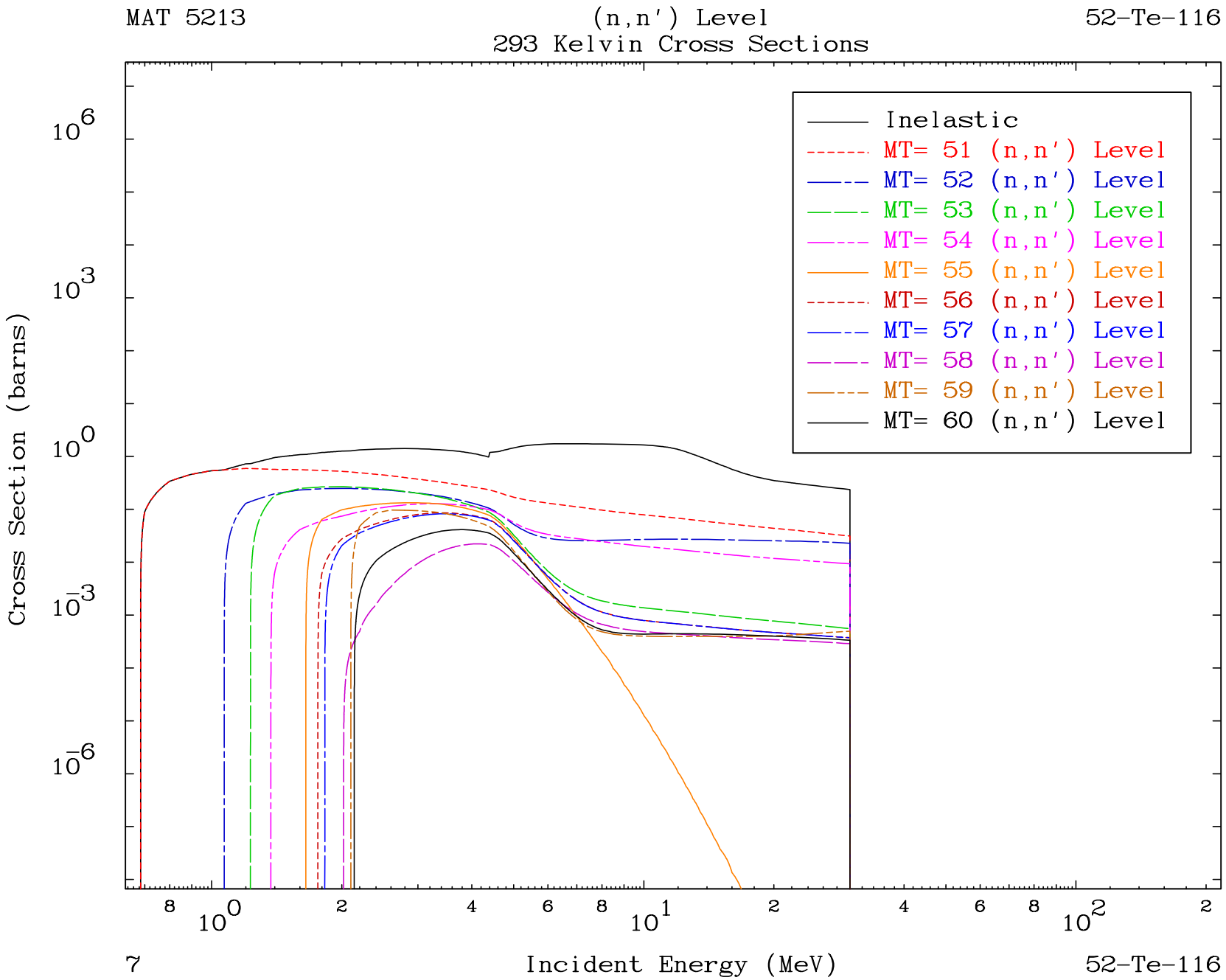

MAT 5213
Neutron Production
293 Kelvin Cross Sections
52-Te-116
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
Cross Section (barns)
Incident Energy (MeV)
52-Te-116
2

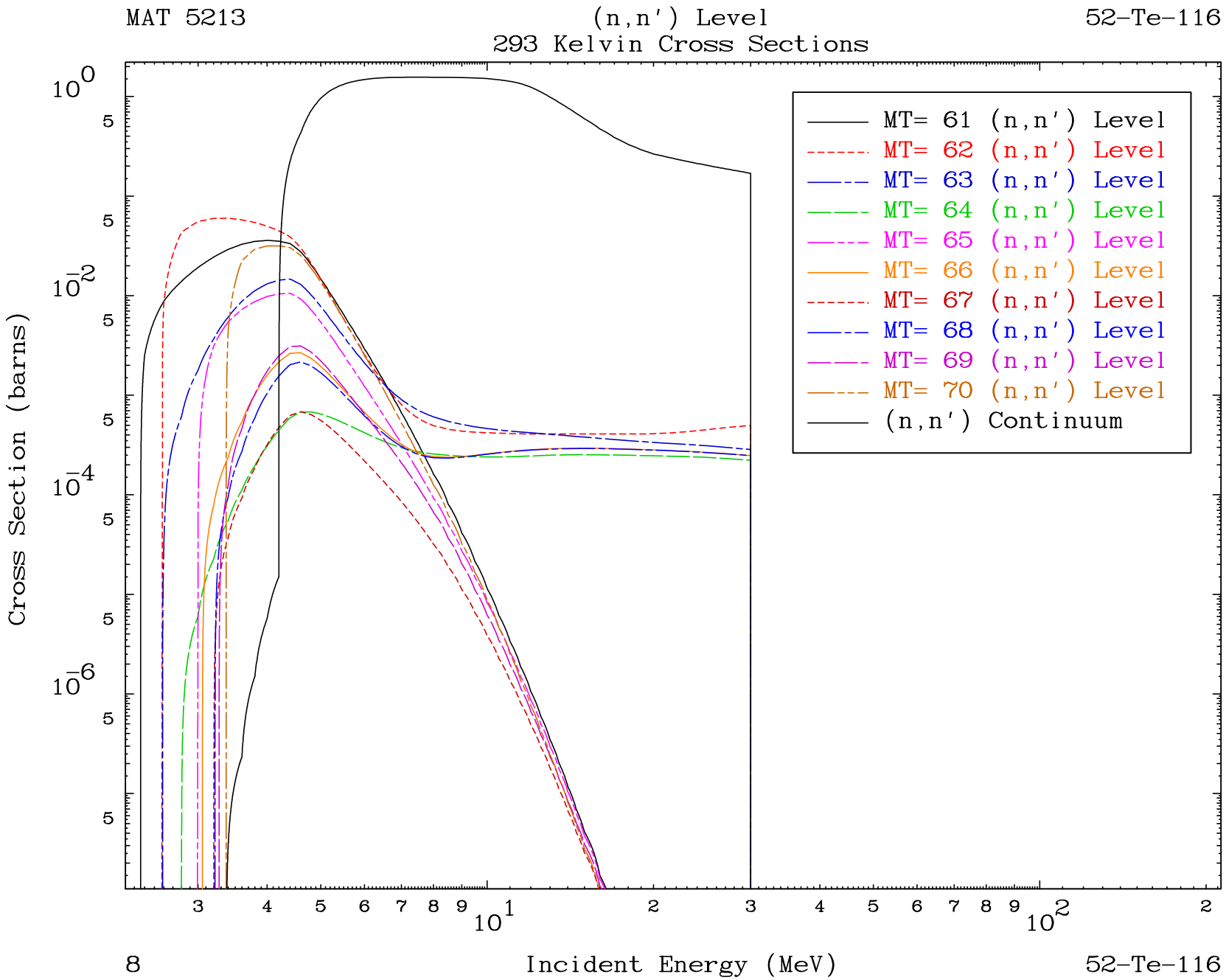

MAT 5213
Neutron Production
293 Kelvin Cross Sections
52-Te-116
(n,2n) 2α
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
Cross Section (barns)
10^-2
10^-4
10^-6
10^-8
5
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)
3
52-Te-116

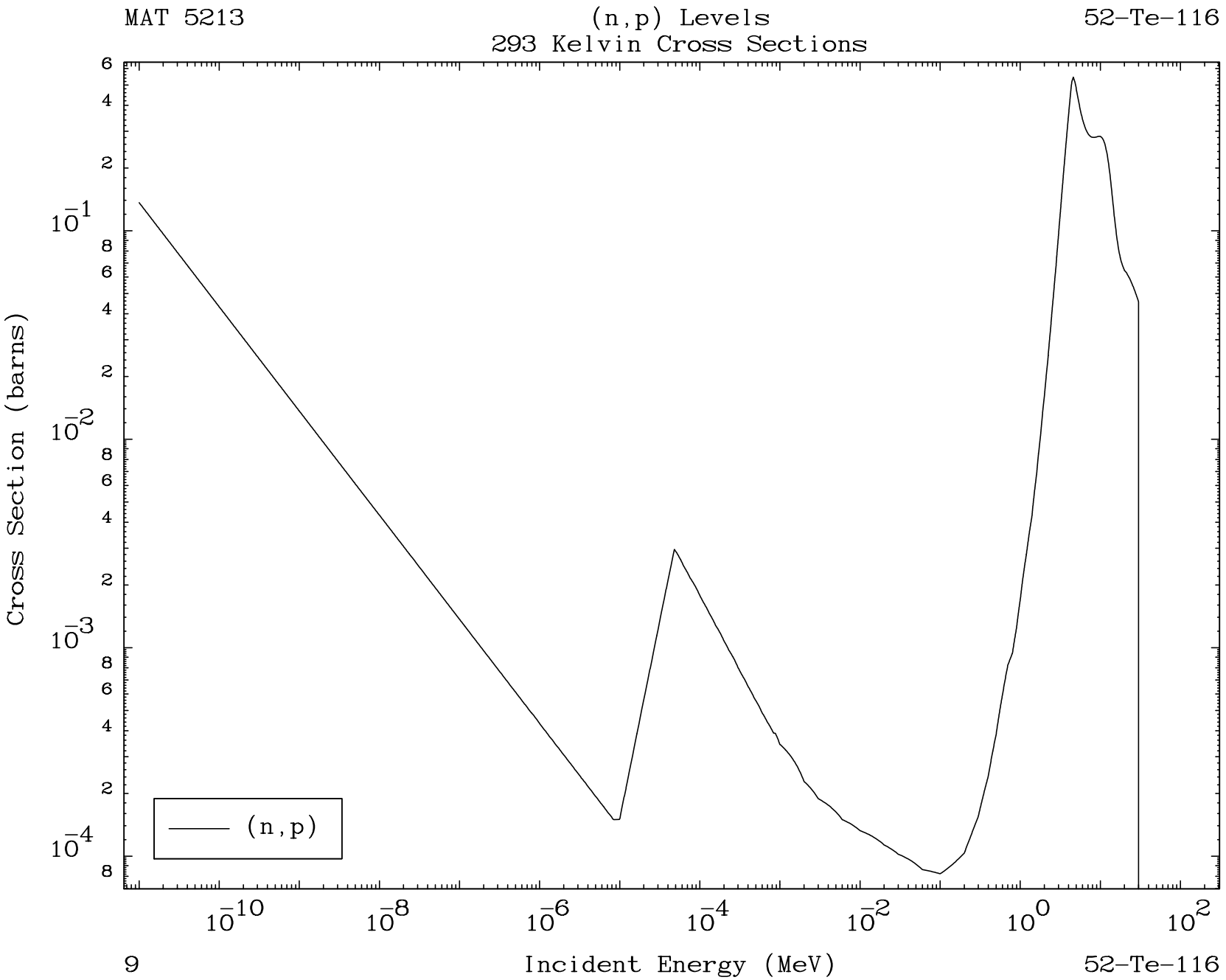

MAT 5213
Charged Particle
293 Kelvin Cross Sections
52-Te-116
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
(n,3n) p
Cross Section (barns)
Incident Energy (MeV)
4
52-Te-116

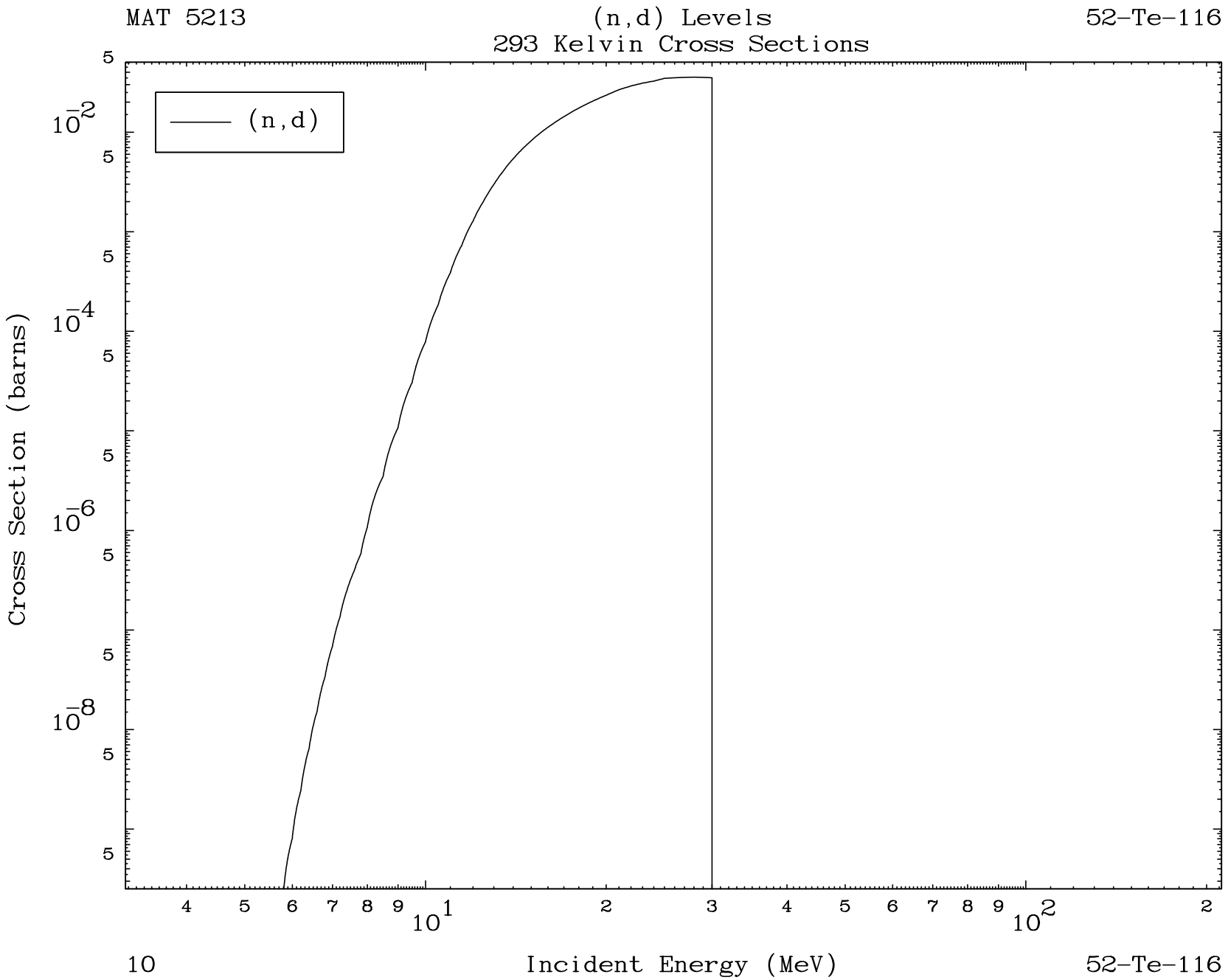

MAT 5213
Charged Particle
293 Kelvin Cross Sections
52-Te-116
Cross Section (barns)
Incident Energy (MeV)
(n,p)
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t

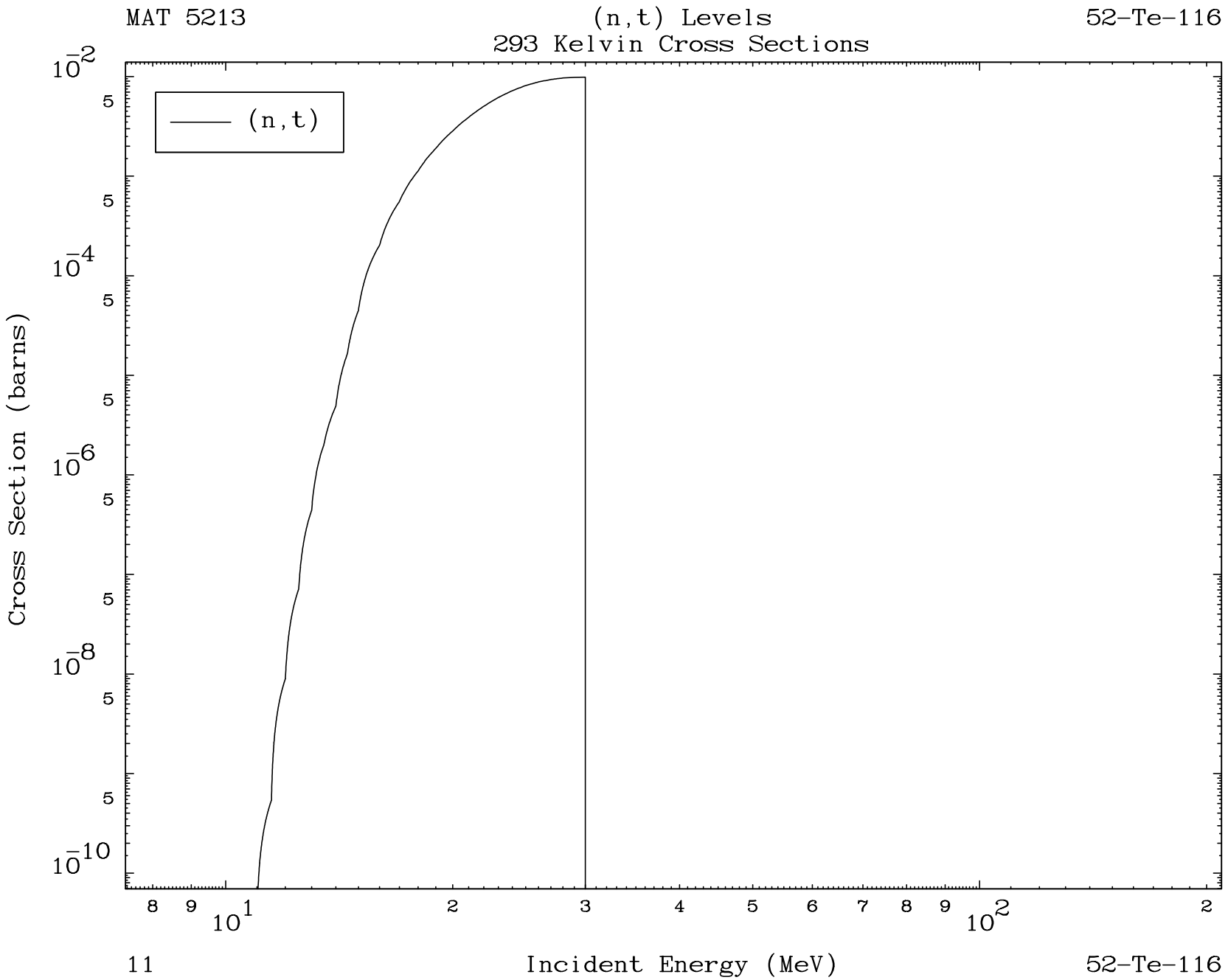

MAT 5213
Particle Production
293 Kelvin Cross Sections
52-Te-116
Cross Section (barns)
10^0
5
10^-2
5
10^-4
5
10^-6
5
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
Incident Energy (MeV)
6
52-Te-116

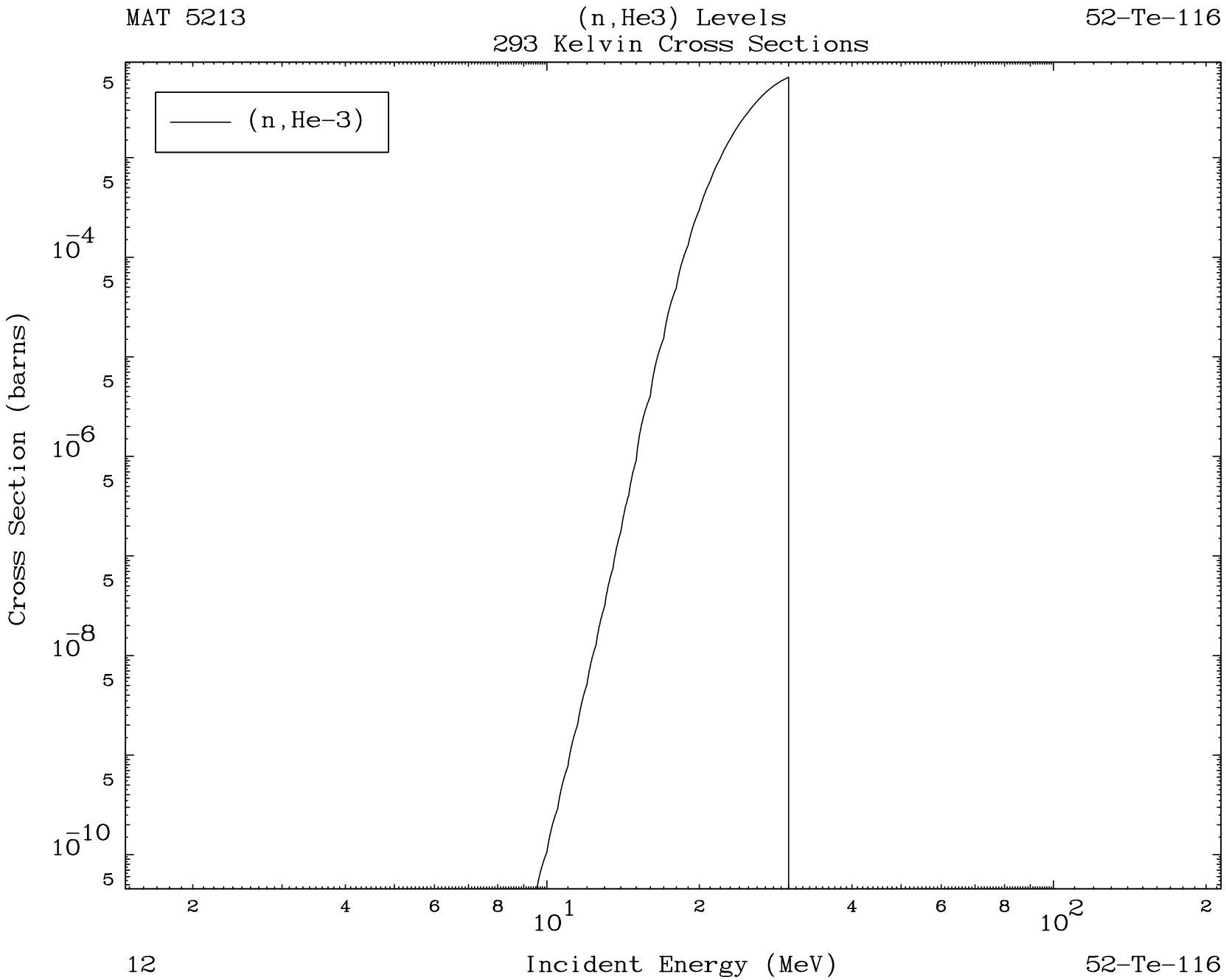

MAT 5213
(n,n') Level
293 Kelvin Cross Sections
52-Te-116
Inelastic
MT= 51 (n,n') Level
MT= 52 (n,n') Level
MT= 53 (n,n') Level
MT= 54 (n,n') Level
MT= 55 (n,n') Level
MT= 56 (n,n') Level
MT= 57 (n,n') Level
MT= 58 (n,n') Level
MT= 59 (n,n') Level
MT= 60 (n,n') Level
Cross Section (barns)
Incident Energy (MeV)
7
52-Te-116

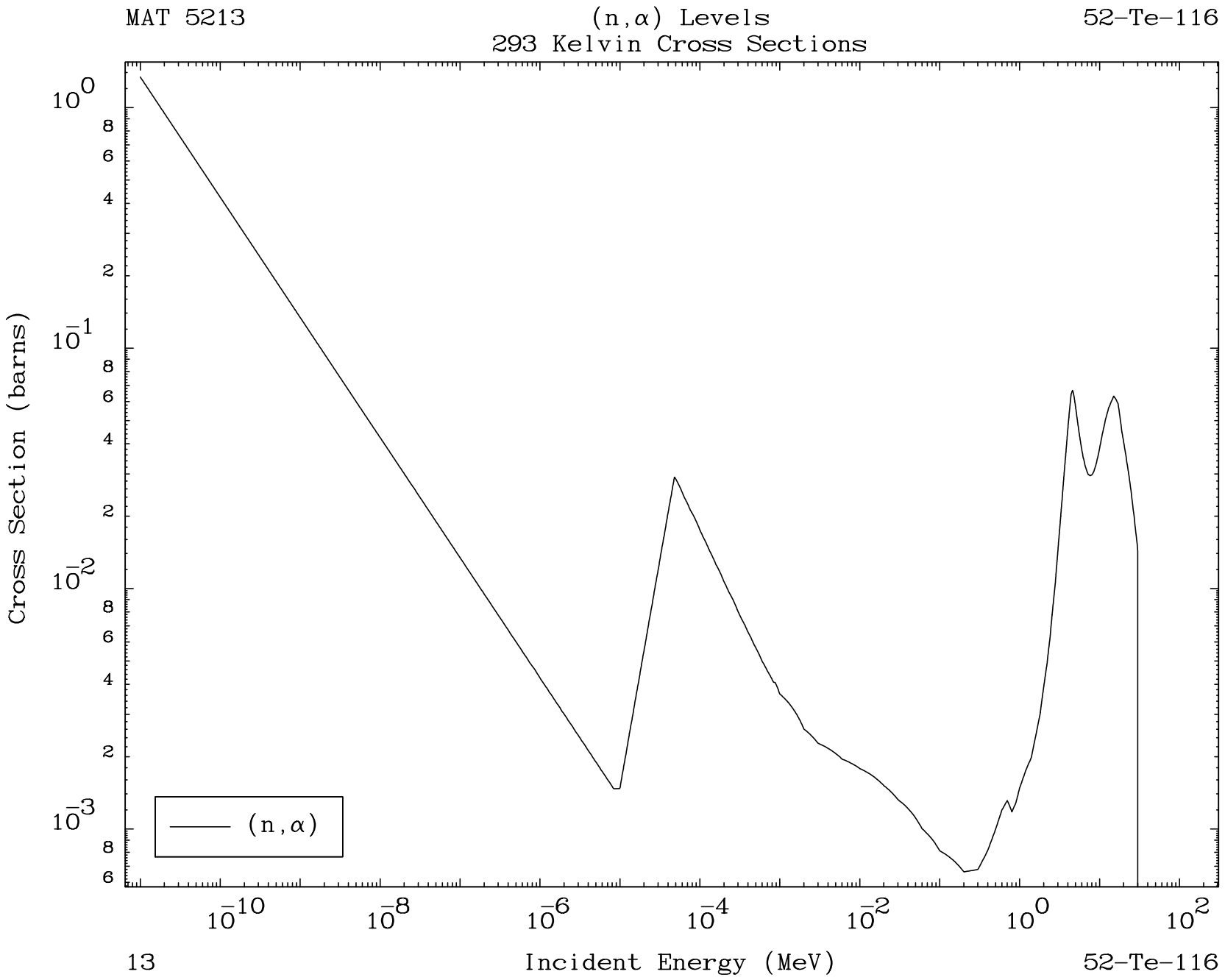

MAT 5213
(n,n') Level
293 Kelvin Cross Sections
52-Te-116
Cross Section (barns)
Incident Energy (MeV)
MT= 61 (n,n') Level
MT= 62 (n,n') Level
MT= 63 (n,n') Level
MT= 64 (n,n') Level
MT= 65 (n,n') Level
MT= 66 (n,n') Level
MT= 67 (n,n') Level
MT= 68 (n,n') Level
MT= 69 (n,n') Level
MT= 70 (n,n') Level
(n,n') Continuum

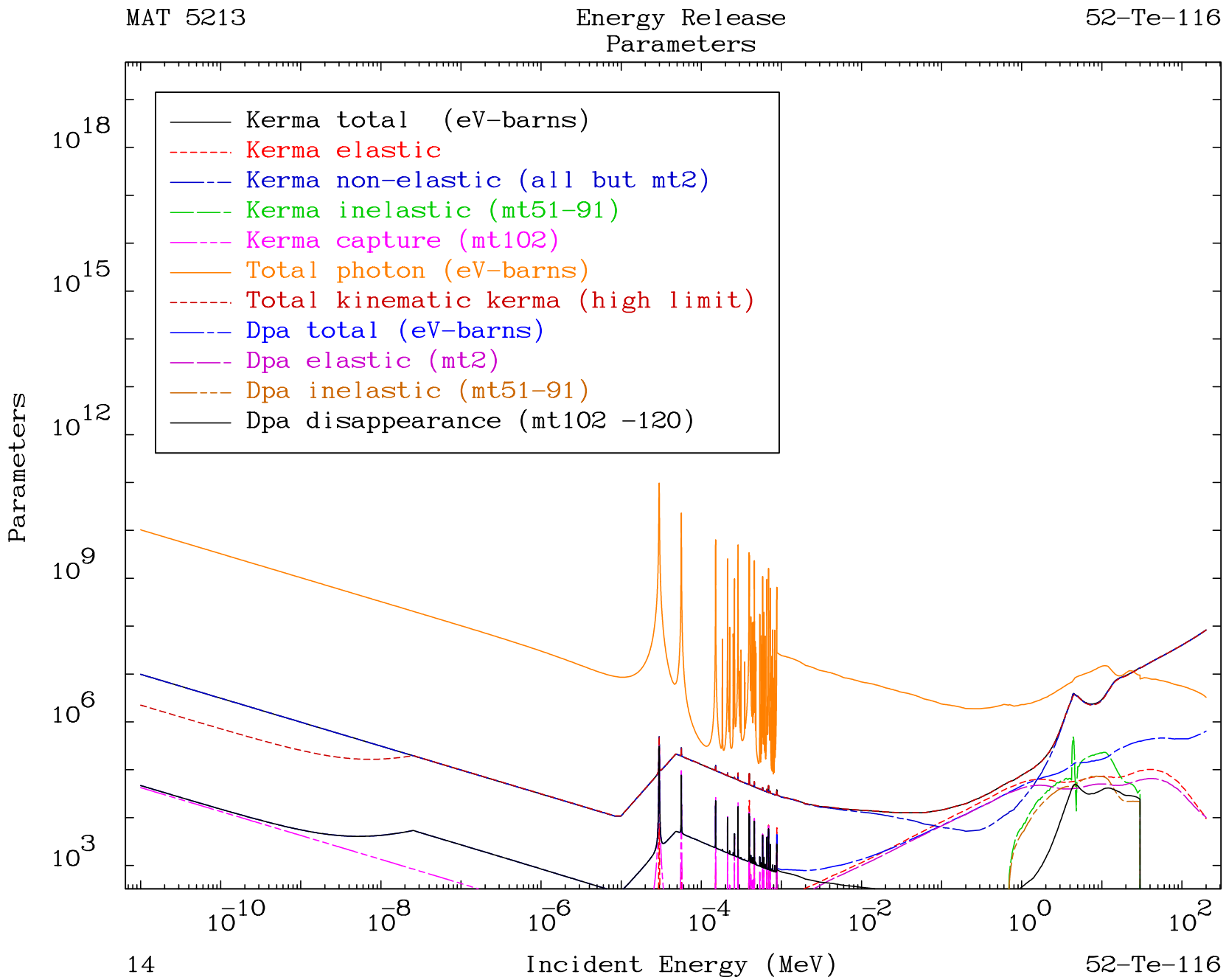

MAT 5213
(n,p) Levels
52-Te-116
293 Kelvin Cross Sections
Cross Section (barns)
(n,p)
Incident Energy (MeV)
9
52-Te-116

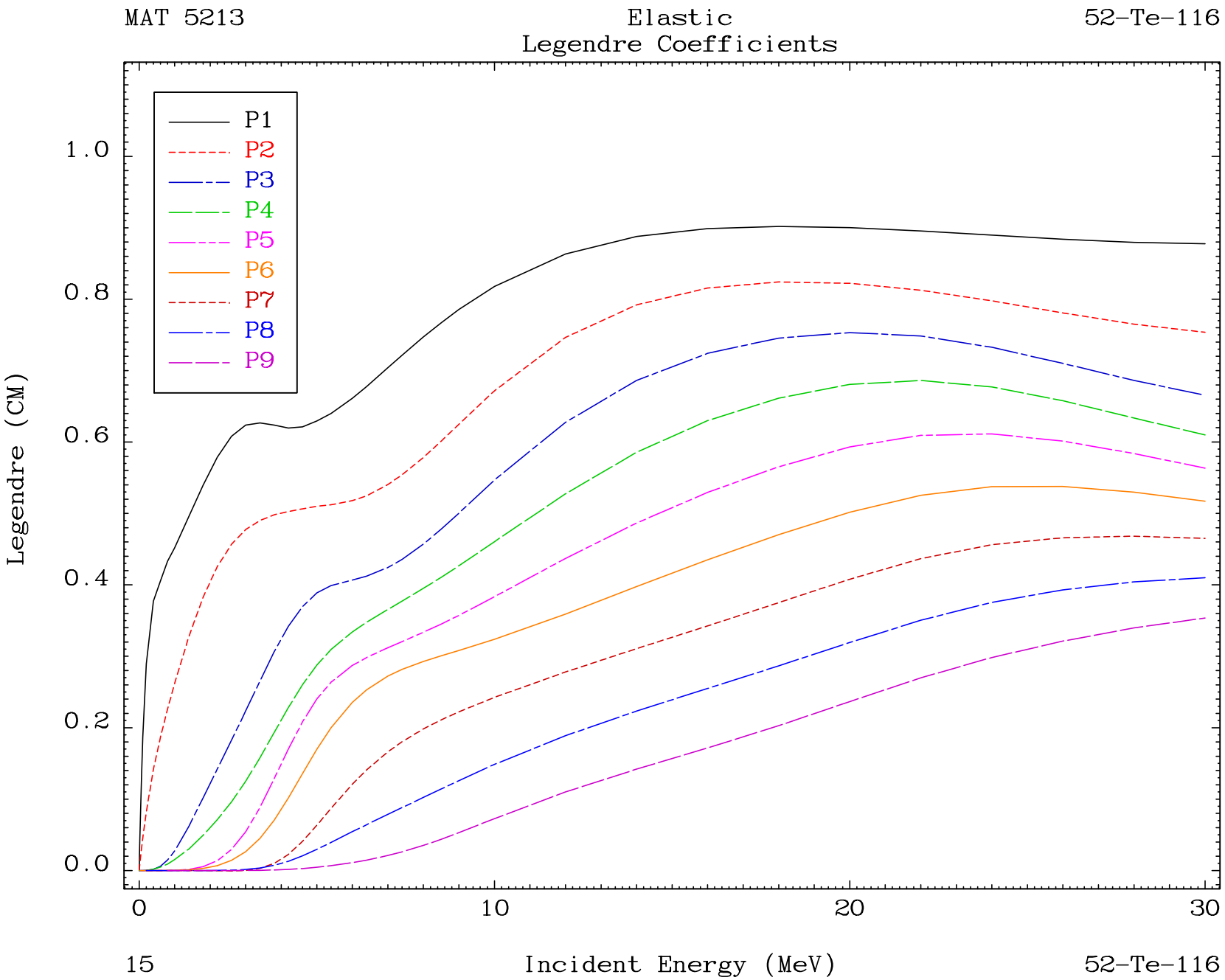

MAT 5213
(n,d) Levels
52-Te-116
293 Kelvin Cross Sections
(n,d)
Cross Section (barns)
Incident Energy (MeV)
52-Te-116

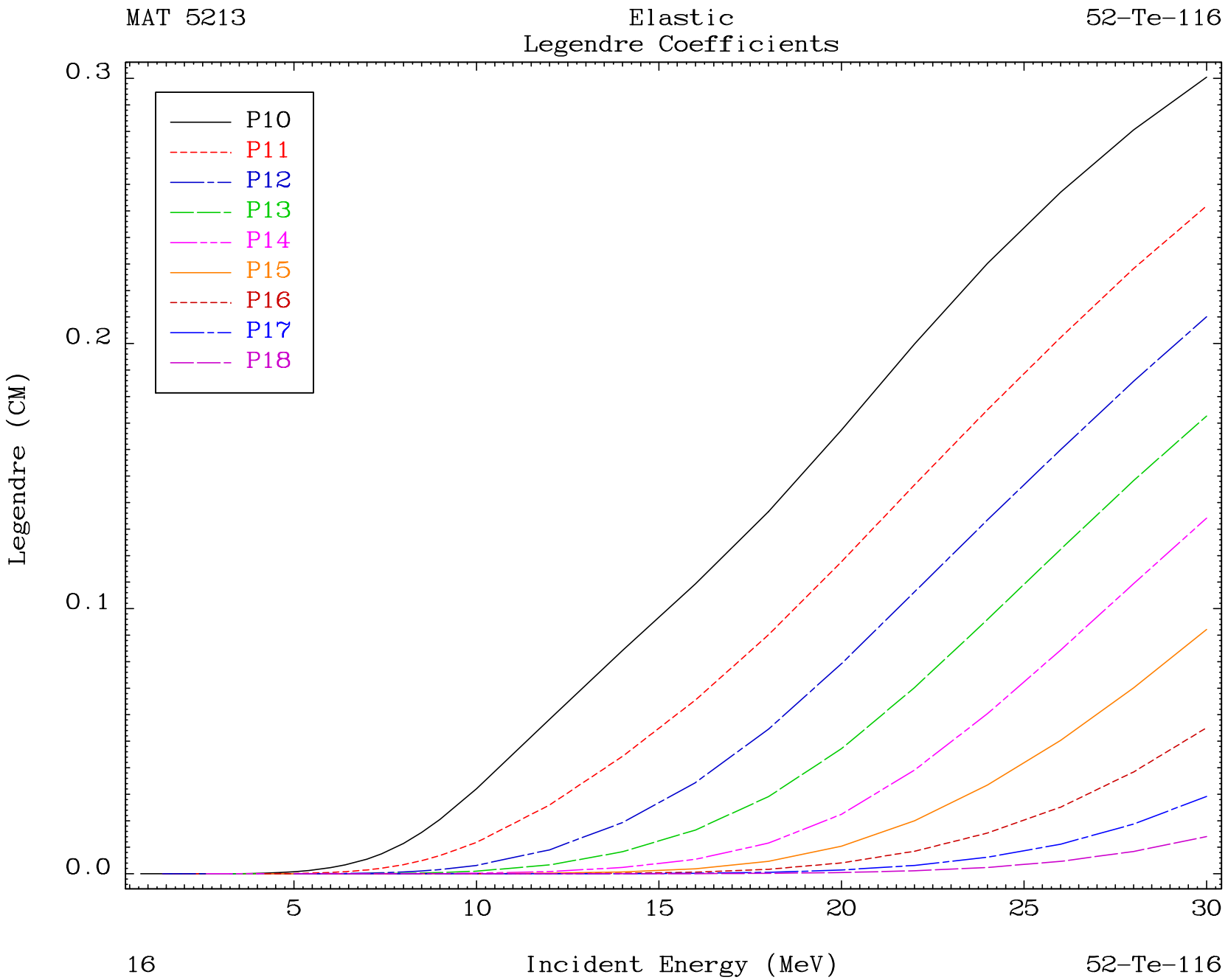

MAT 5213
(n,t) Levels
52-Te-116
293 Kelvin Cross Sections
(n,t)
Cross Section (barns)
Incident Energy (MeV)
11
52-Te-116

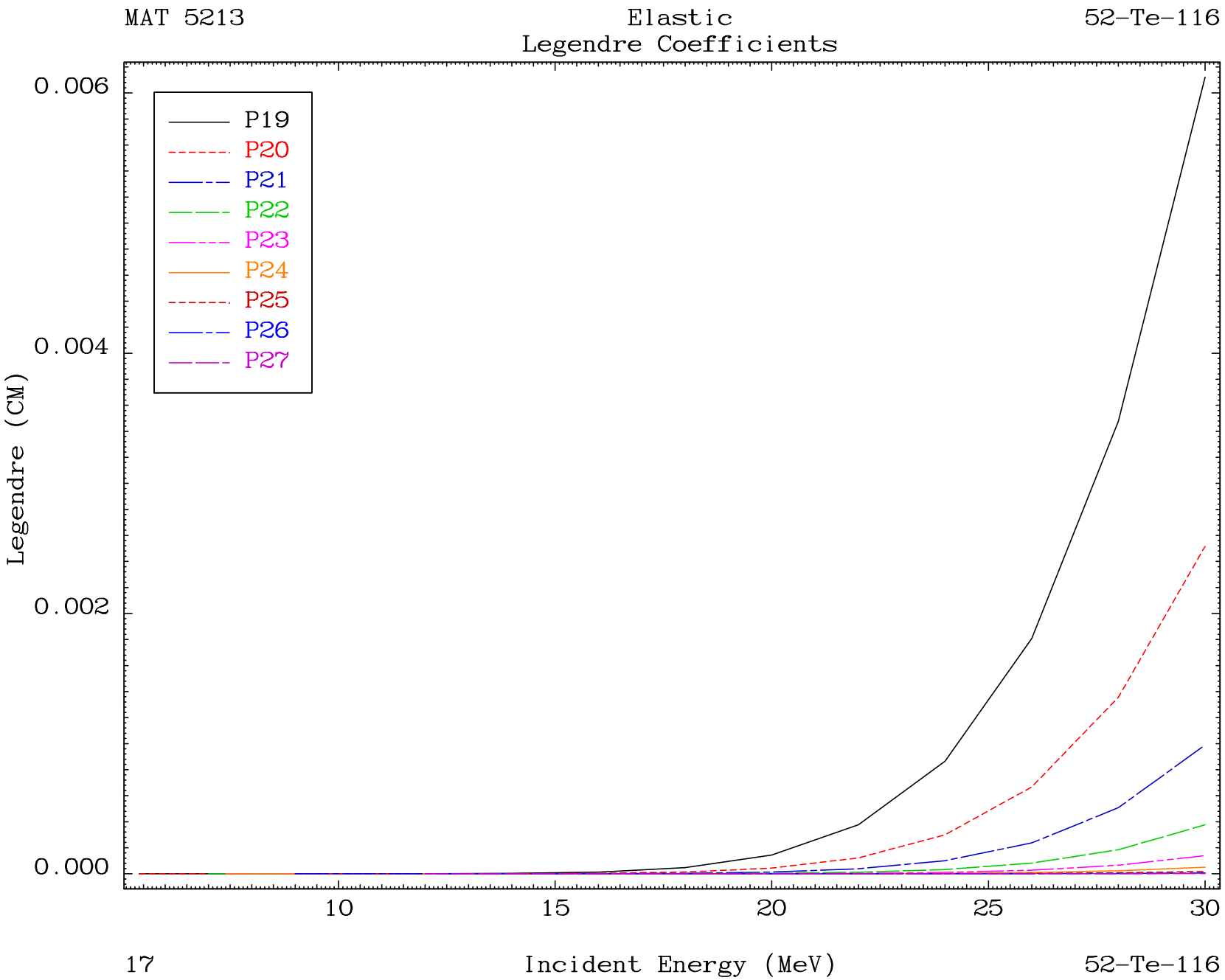

MAT 5213
(n,He3) Levels
52-Te-116
293 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
10-4
10-6
10-8
10-10
5
2
4
6
8
10 1
10 2
12
Incident Energy (MeV)
52-Te-116

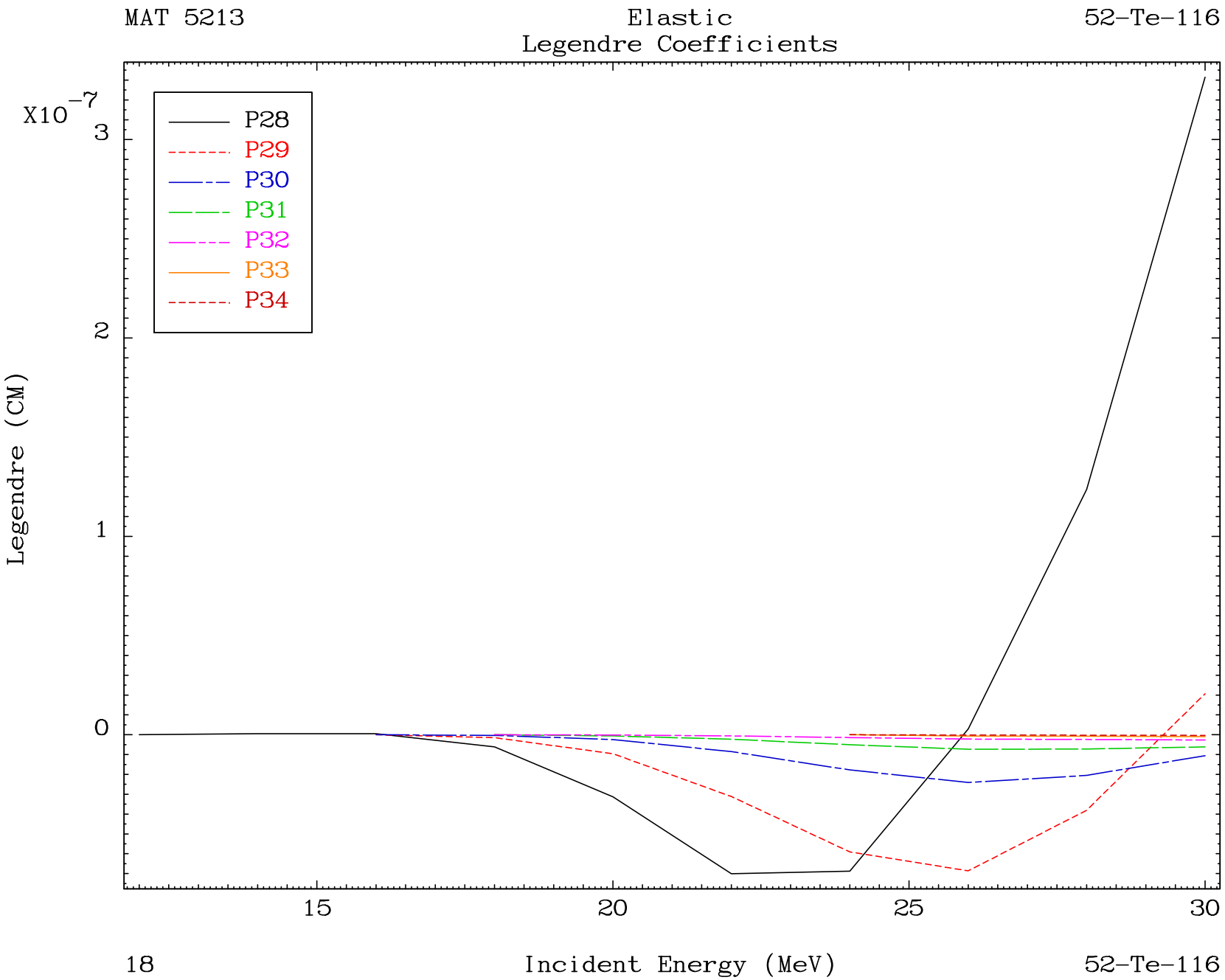

MAT 5213
(n,α) Levels
52-Te-116
293 Kelvin Cross Sections
Cross Section (barns)
10^0
10^-1
10^-2
10^-3
(n,α)
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
13
Incident Energy (MeV)
52-Te-116

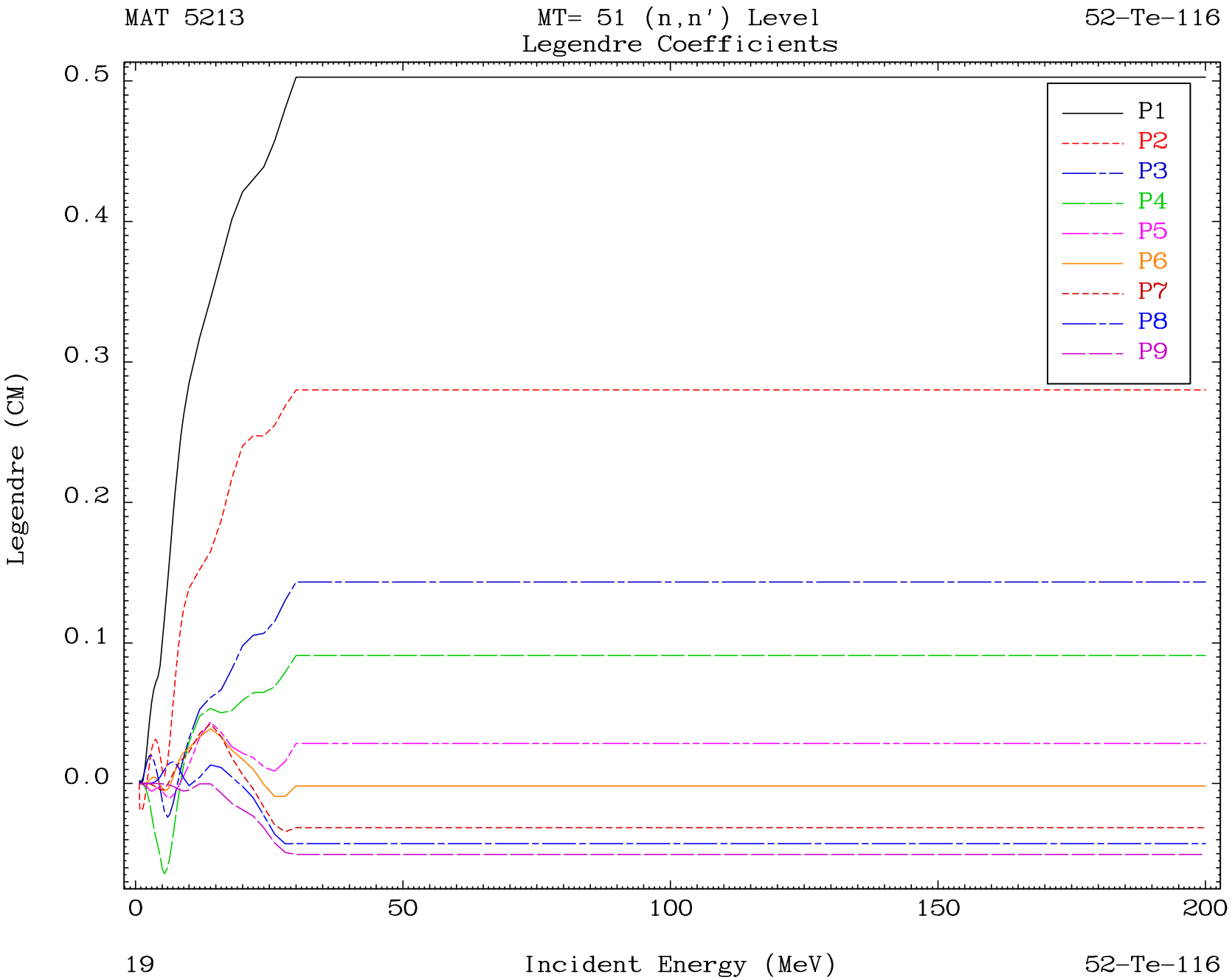

MAT 5213
Energy Release Parameters
52-Te-116
Kerma total (eV-barns)
Kerma elastic
Kerma non-elastic (all but mt2)
Kerma inelastic (mt51-91)
Kerma capture (mt102)
Total photon (eV-barns)
Total kinematic kerma (high limit)
Dpa total (eV-barns)
Dpa elastic (mt2)
Dpa inelastic (mt51-91)
Dpa disappearance (mt102 -120)
Parameters
10^{18}
10^{15}
10^{12}
10^{9}
10^{6}
10^{3}
10^{-10}
10^{-8}
10^{-6}
10^{-4}
10^{-2}
10^{0}
10^{2}
14
Incident Energy (MeV)
52-Te-116

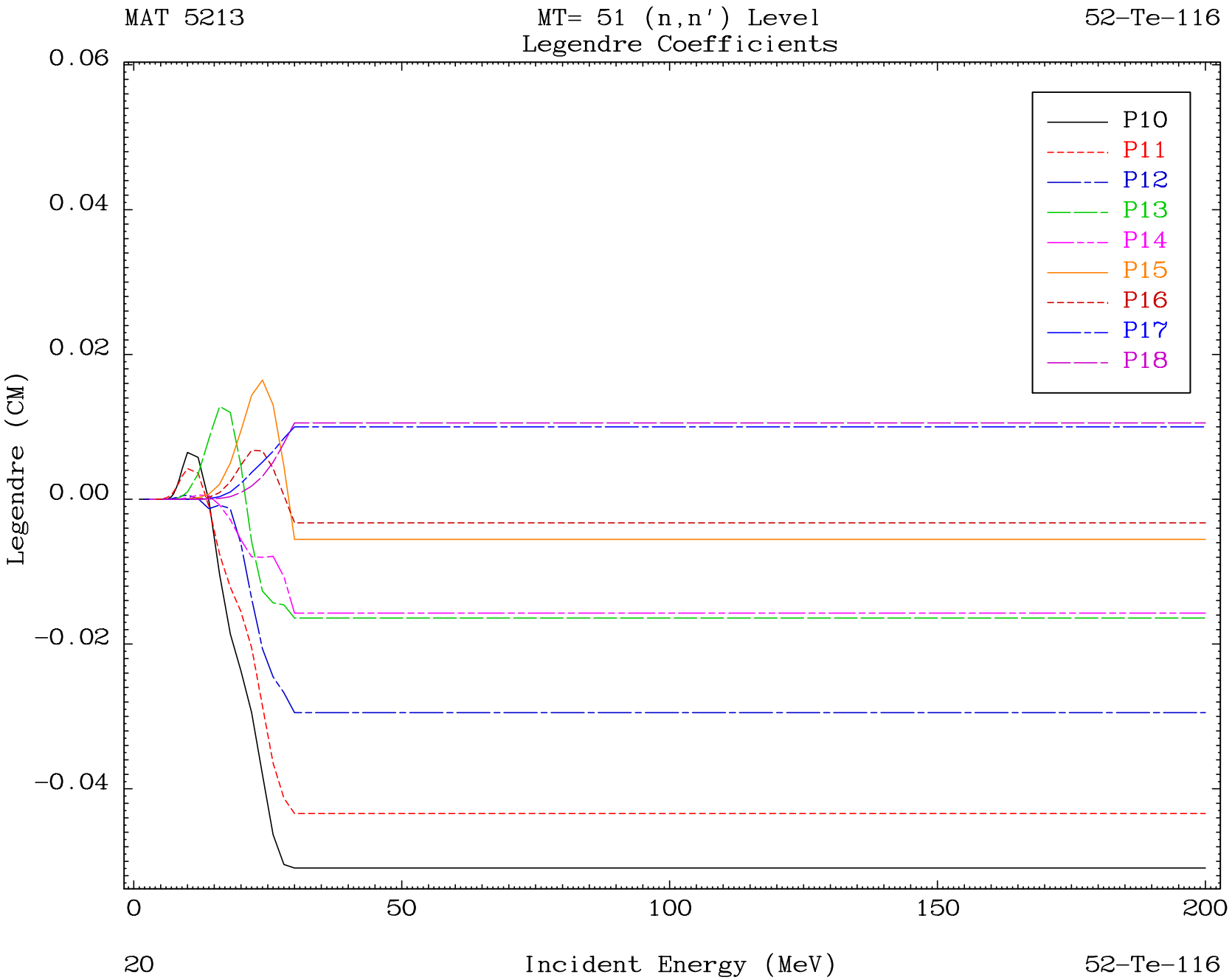

MAT 5213
Elastic
Legendre Coefficients
52-Te-116
P1
P2
P3
P4
P5
P6
P7
P8
P9
Legendre (CM)
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
15
Incident Energy (MeV)
52-Te-116

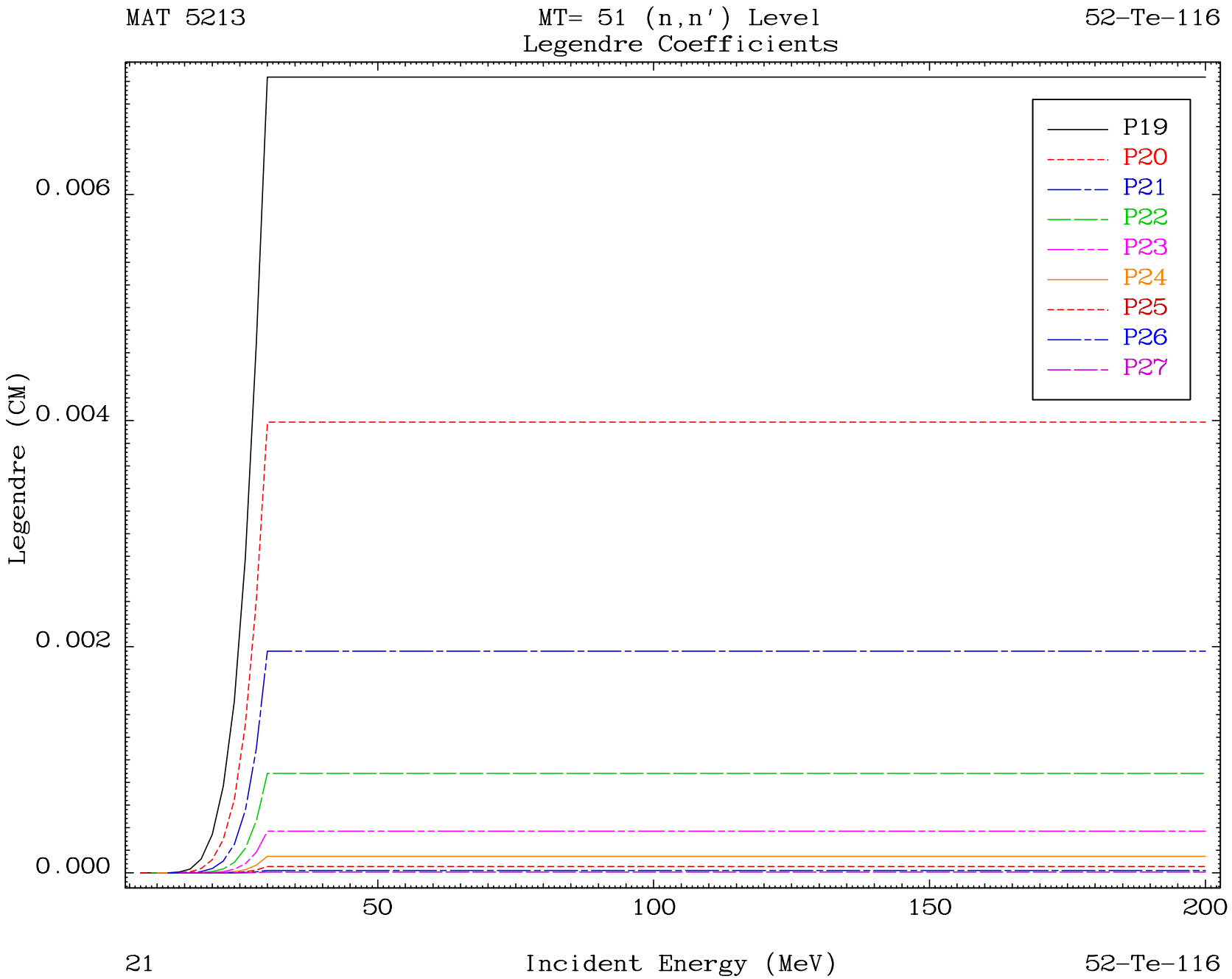

MAT 5213
Elastic
Legendre Coefficients
52-Te-116
P10
P11
P12
P13
P14
P15
P16
P17
P18
Legendre (CM)
0.3
0.2
0.1
0.0
5
10
15
20
25
30
16
Incident Energy (MeV)
52-Te-116

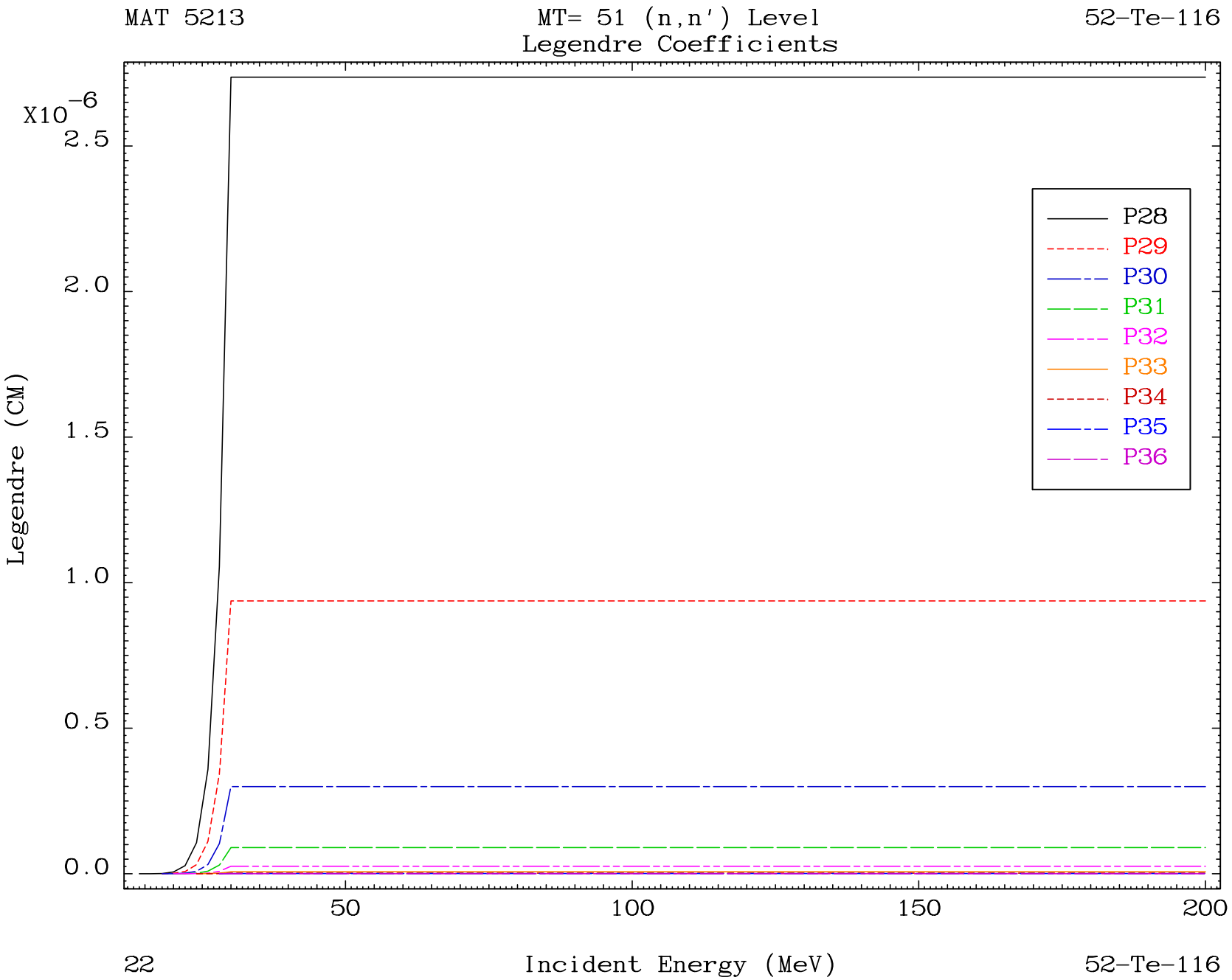

MAT 5213
Elastic
Legendre Coefficients
52-Te-116
P19
P20
P21
P22
P23
P24
P25
P26
P27
0.006
0.004
0.002
0.000
Legendre (CM)
10
15
20
25
30
17
Incident Energy (MeV)
52-Te-116

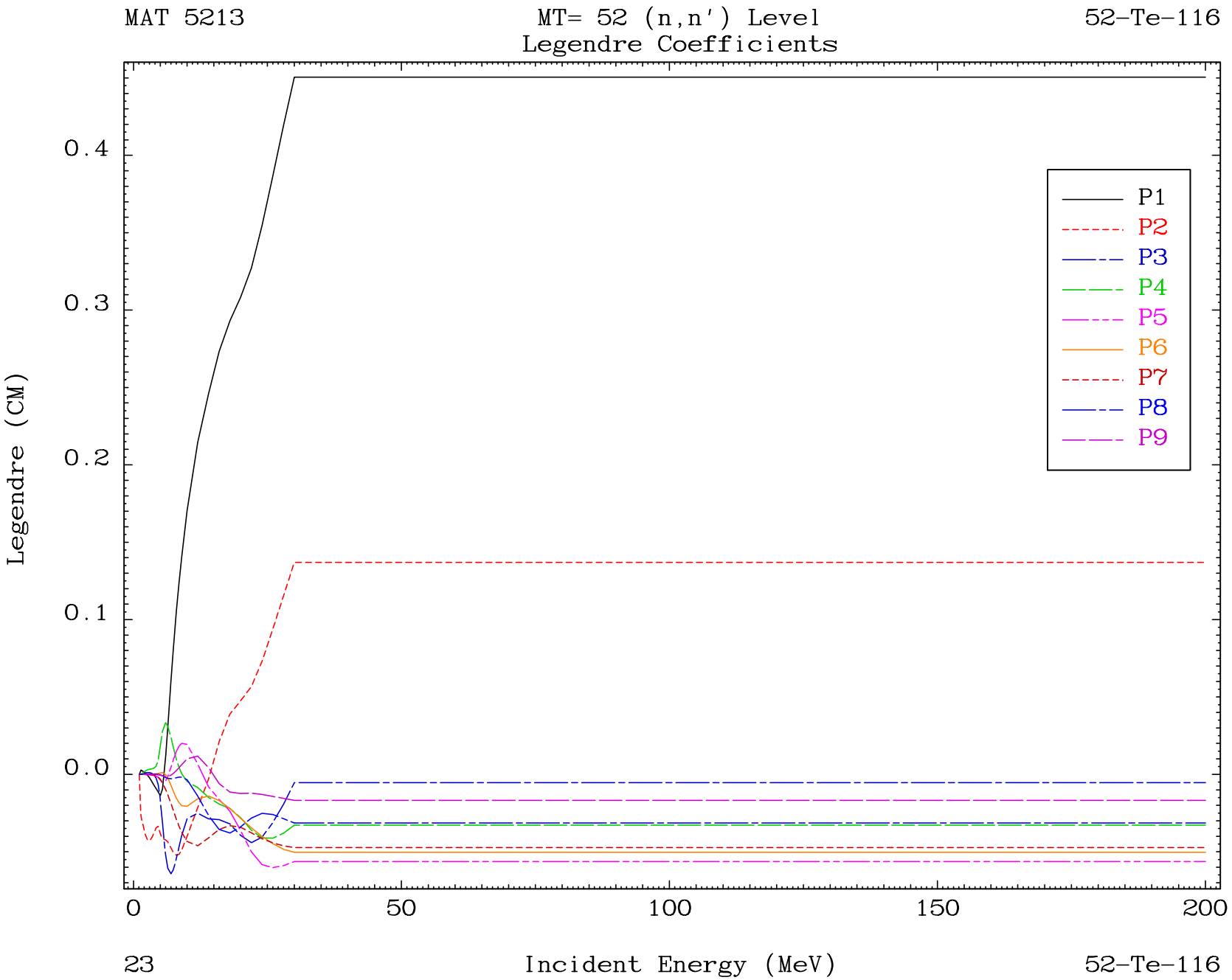

MAT 5213
Elastic
Legendre Coefficients
52-Te-116
X10-7
3
2
1
0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
15
20
25
30
18
Incident Energy (MeV)
52-Te-116

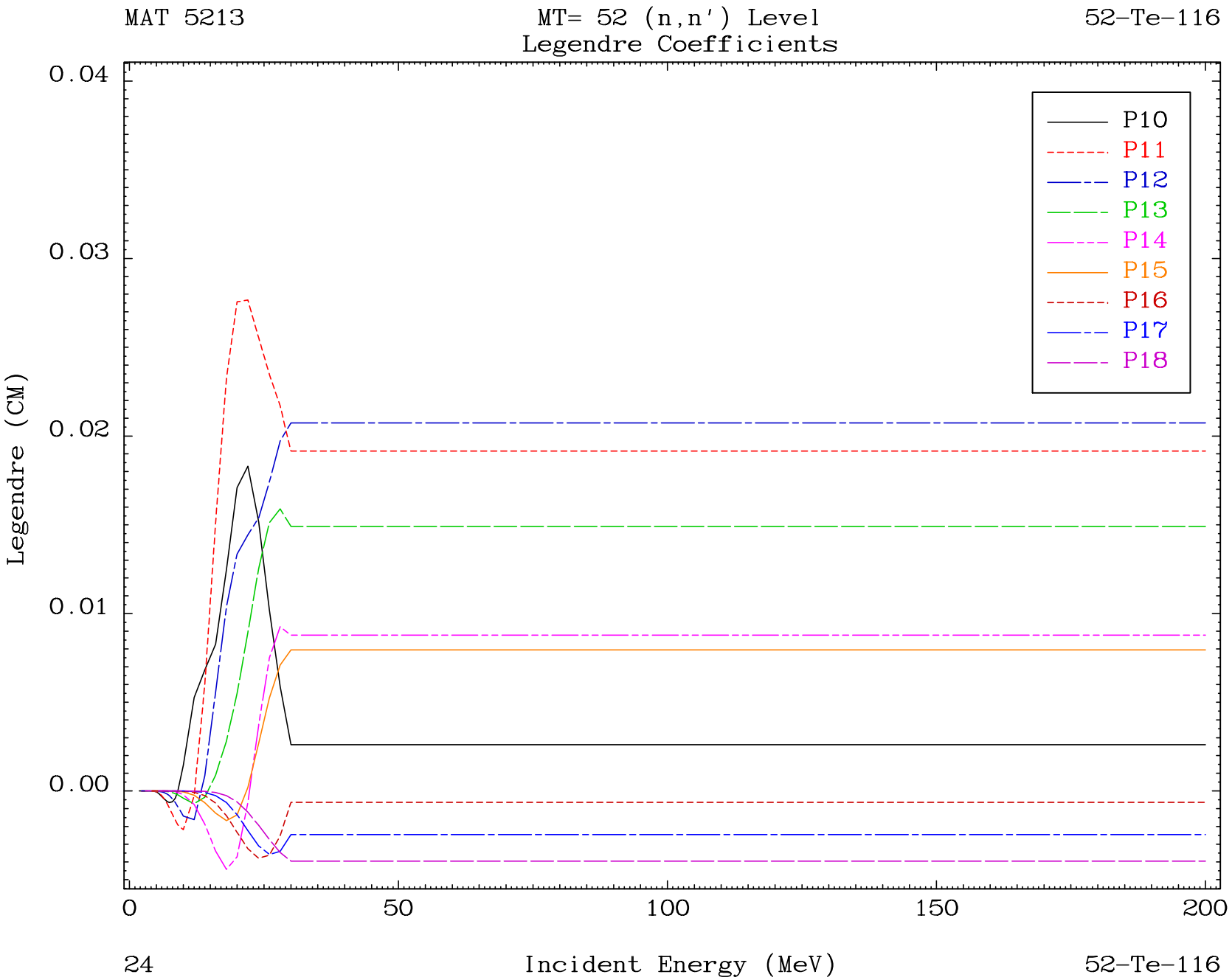

MAT 5213
MT= 51 (n,n') Level
Legendre Coefficients
52-Te-116
0.5
0.4
0.3
0.2
0.1
0.0
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
19
Incident Energy (MeV)
52-Te-116

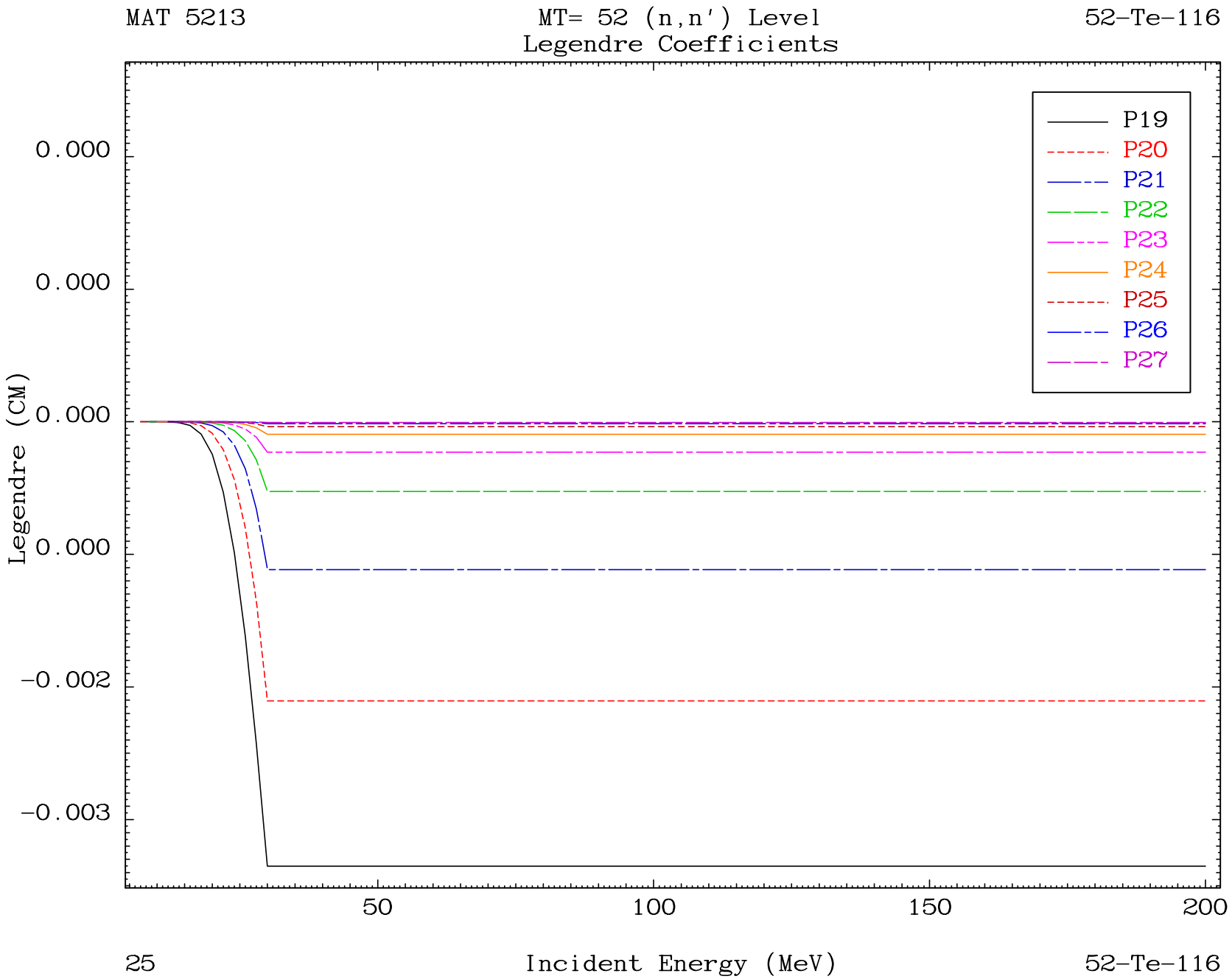

MAT 5213
MT= 51 (n,n') Level
Legendre Coefficients
52-Te-116
0.06
0.04
0.02
0.00
-0.02
-0.04
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
20
Incident Energy (MeV)
52-Te-116

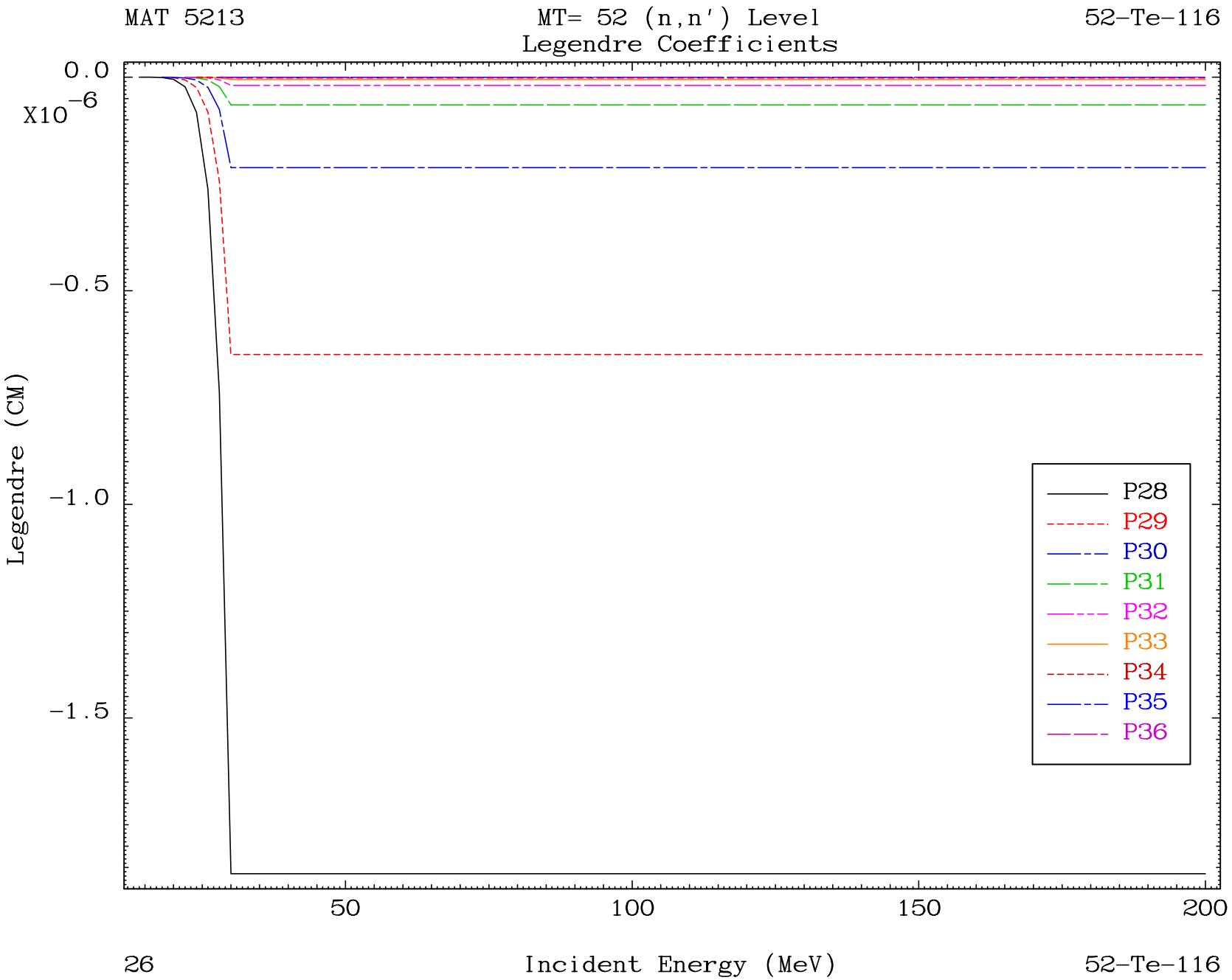

MAT 5213
MT= 51 (n,n') Level
Legendre Coefficients
52-Te-116
P19
P20
P21
P22
P23
P24
P25
P26
P27
0.006
0.004
0.002
0.000
Legendre (CM)
50
100
150
200
21
Incident Energy (MeV)
52-Te-116

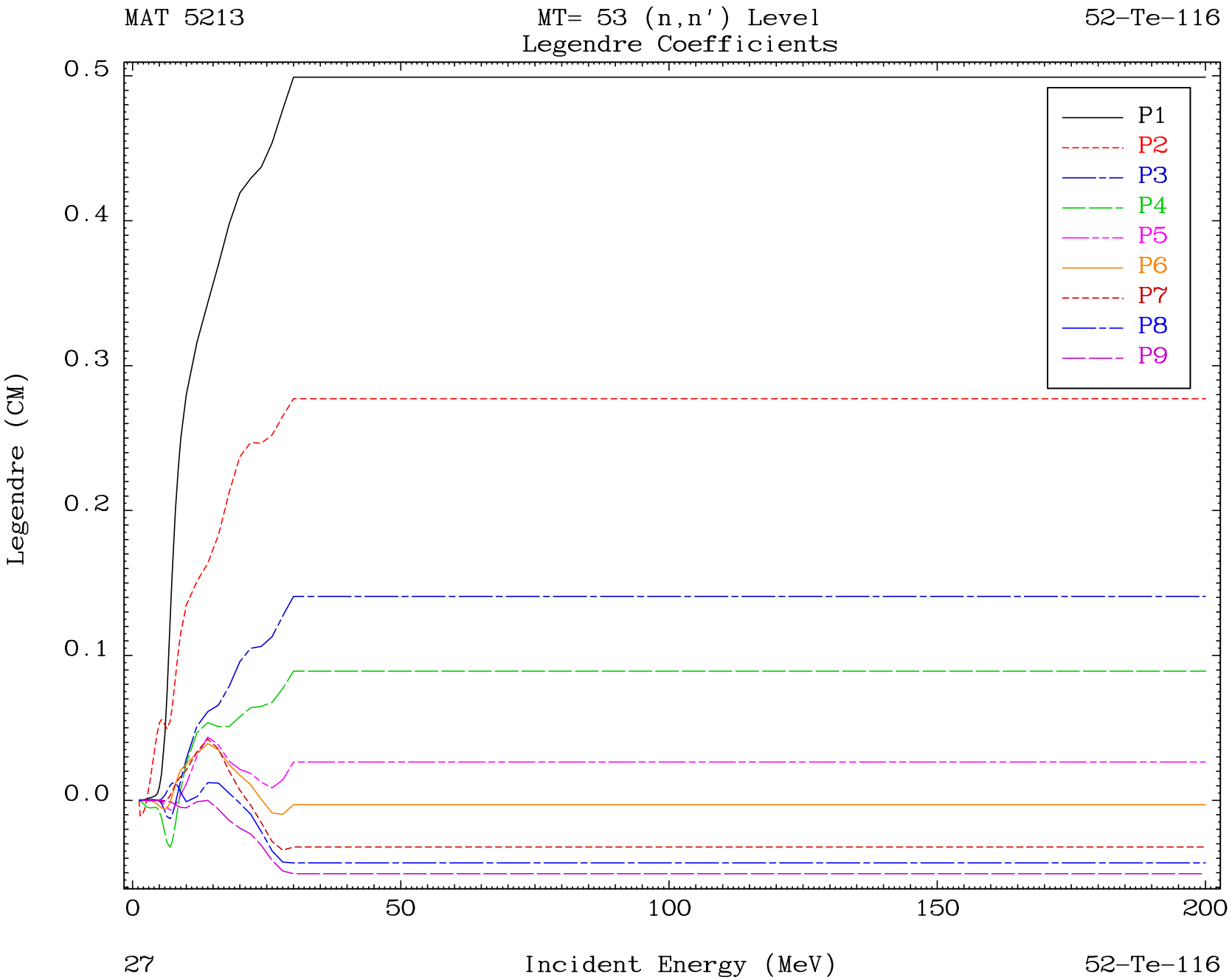

MAT 5213
MT= 51 (n,n') Level
Legendre Coefficients
52-Te-116
X10^-6
2.5
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
50
100
150
200
22
Incident Energy (MeV)
52-Te-116
P28
P29
P30
P31
P32
P33
P34
P35
P36

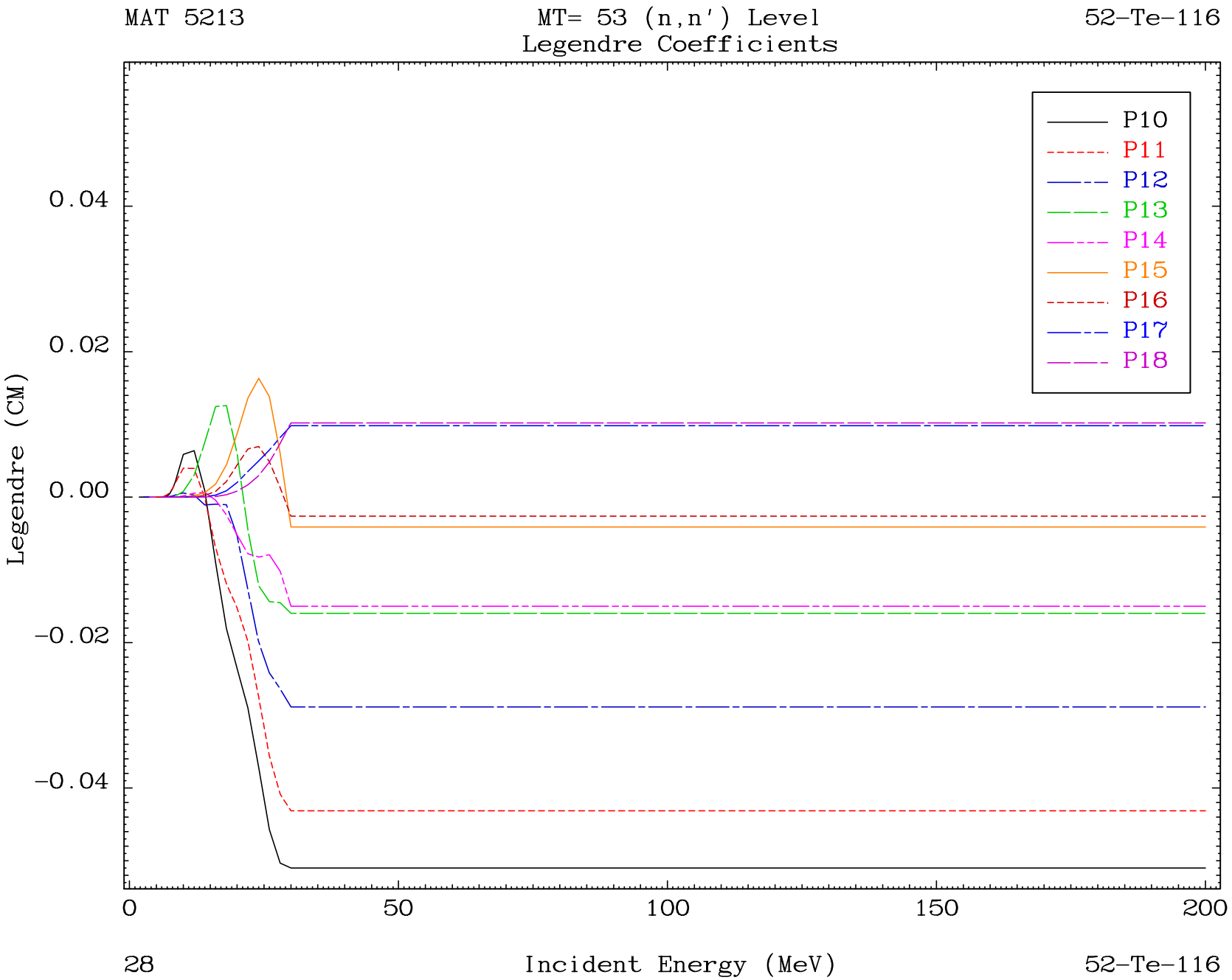

MAT 5213
MT= 52 (n,n') Level
Legendre Coefficients
52-Te-116
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
23
Incident Energy (MeV)
52-Te-116

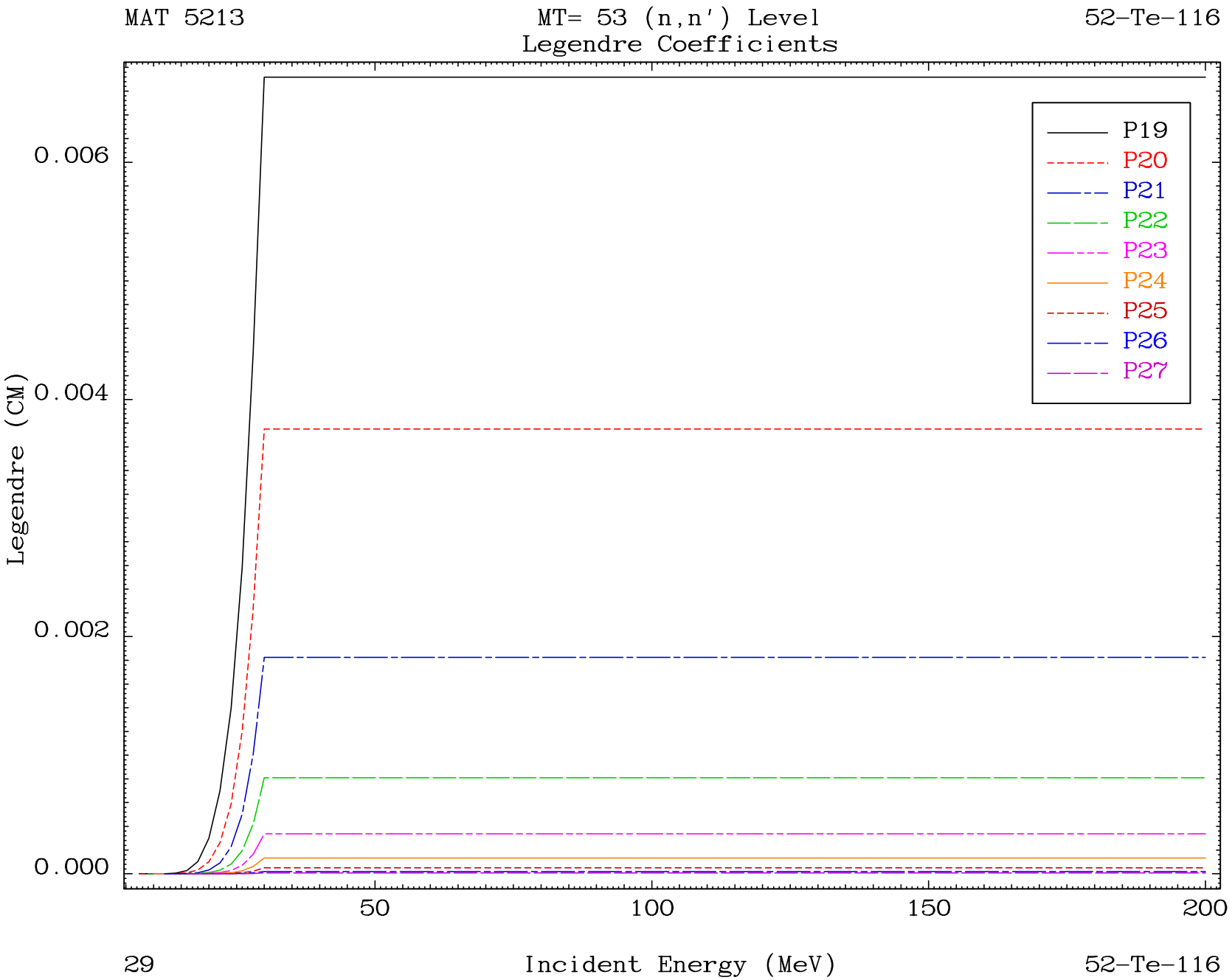

MAT 5213
MT= 52 (n,n') Level
Legendre Coefficients
52-Te-116
0.04
0.03
0.02
0.01
0.00
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
24
Incident Energy (MeV)
52-Te-116

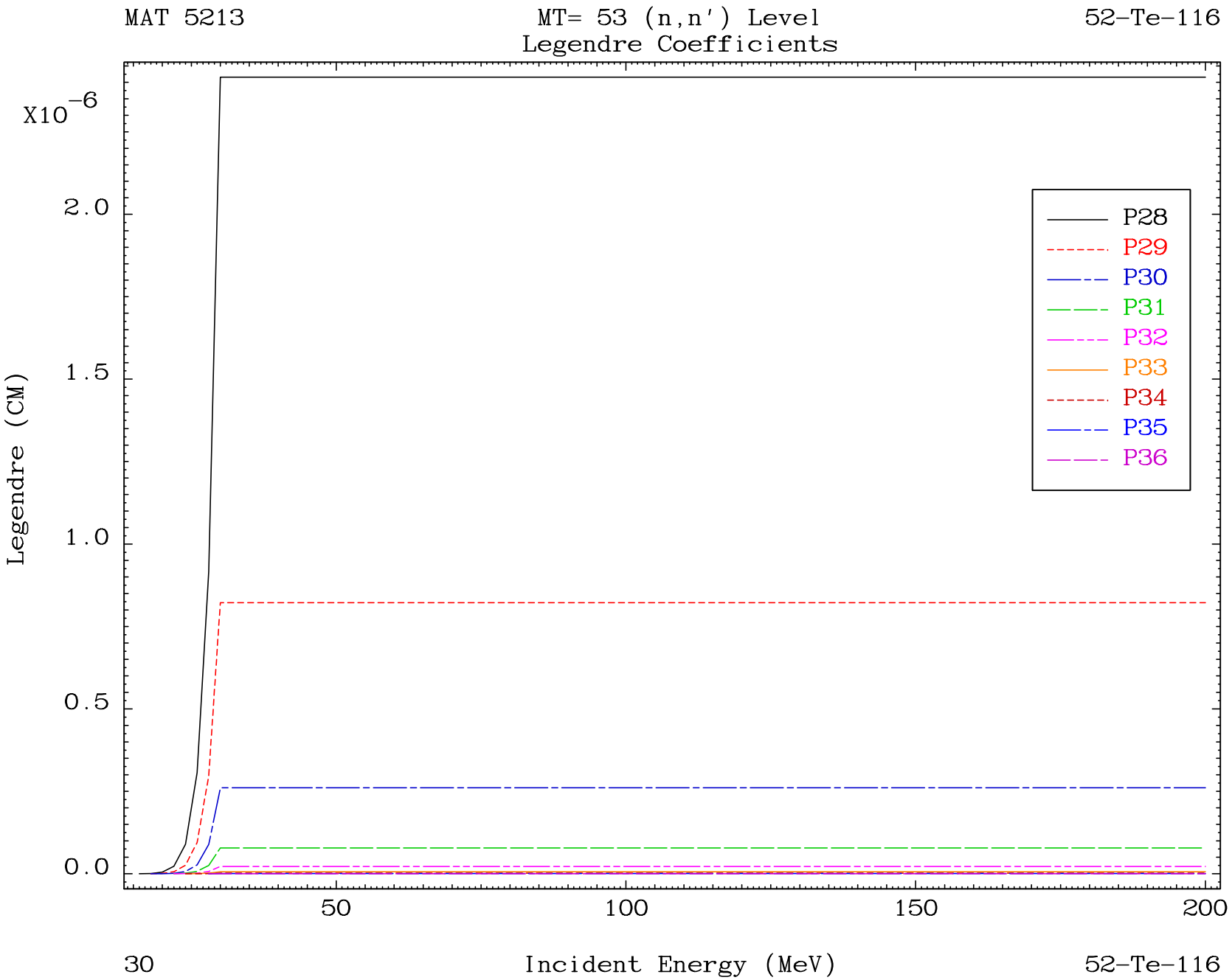

MAT 5213
MT= 52 (n,n') Level
Legendre Coefficients
52-Te-116
P19
P20
P21
P22
P23
P24
P25
P26
P27
0.000
0.000
0.000
0.000
-0.002
-0.003
Legendre (CM)
50
100
150
200
25
Incident Energy (MeV)
52-Te-116

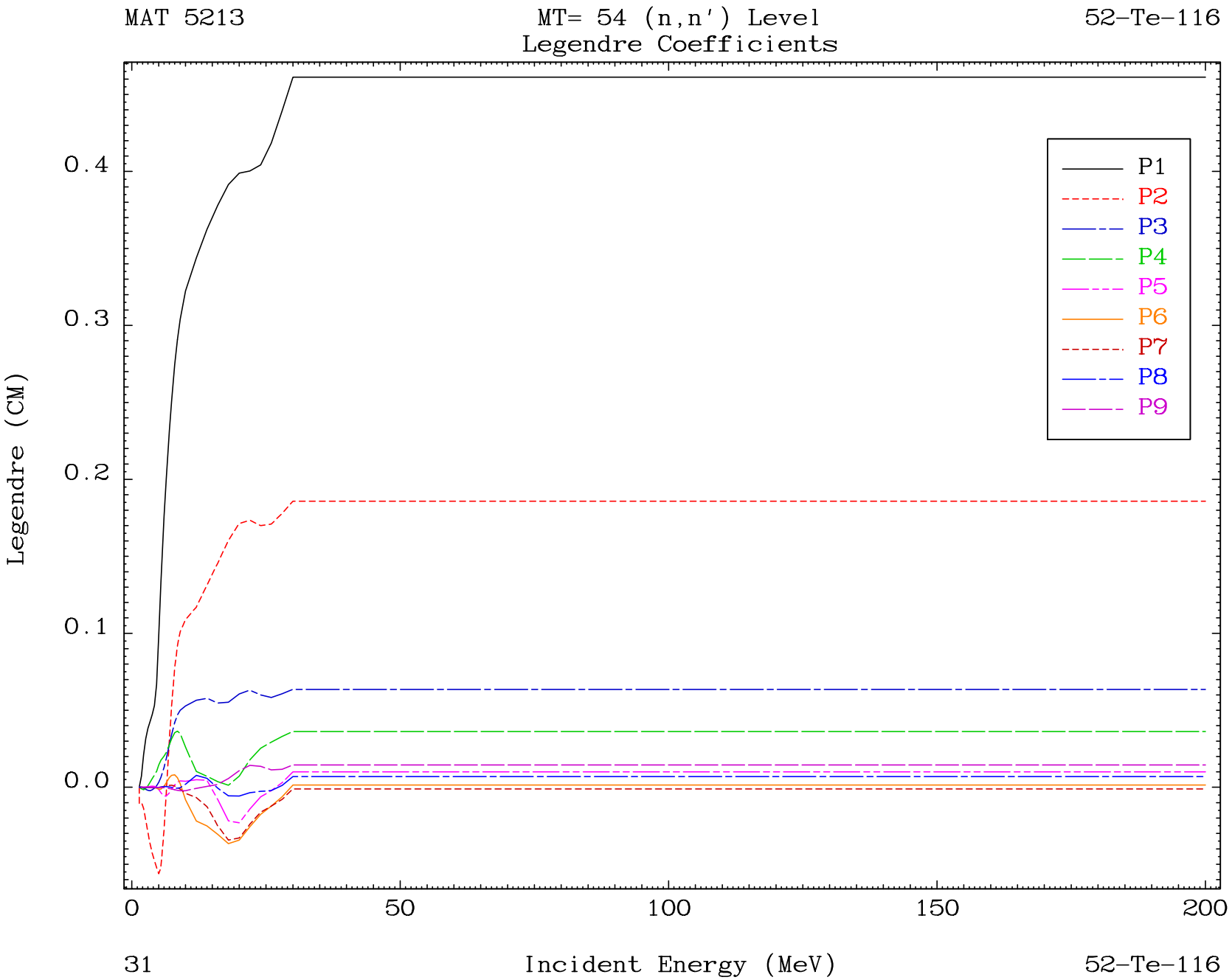

MAT 5213
MT= 52 (n,n') Level
Legendre Coefficients
52-Te-116
0.0
X10^-6
-0.5
-1.0
-1.5
Legendre (CM)
50
100
150
200
26
Incident Energy (MeV)
52-Te-116
P28
P29
P30
P31
P32
P33
P34
P35
P36

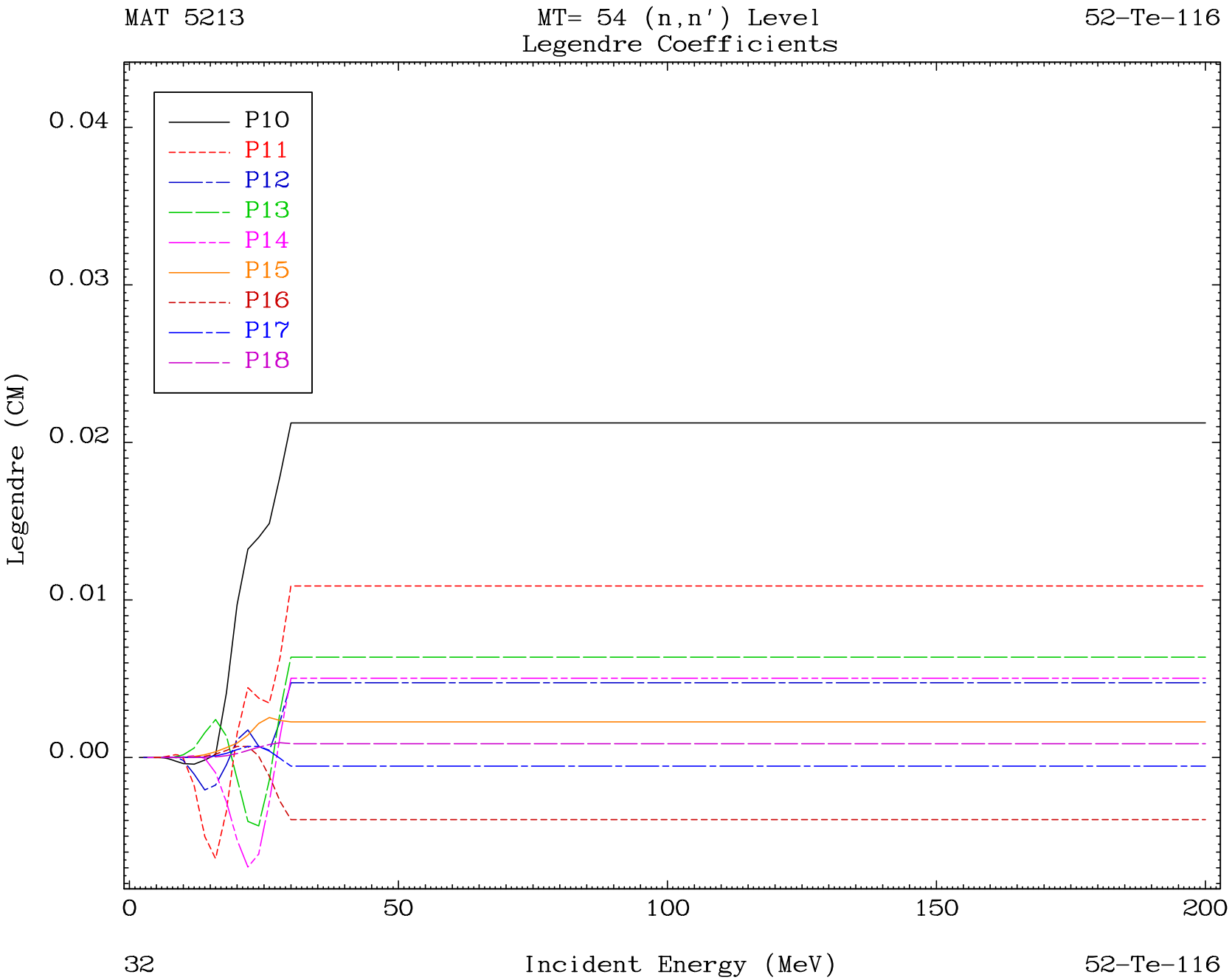

MAT 5213
MT= 53 (n,n') Level
Legendre Coefficients
52-Te-116
0.5
0.4
0.3
0.2
0.1
0.0
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
27
Incident Energy (MeV)
52-Te-116

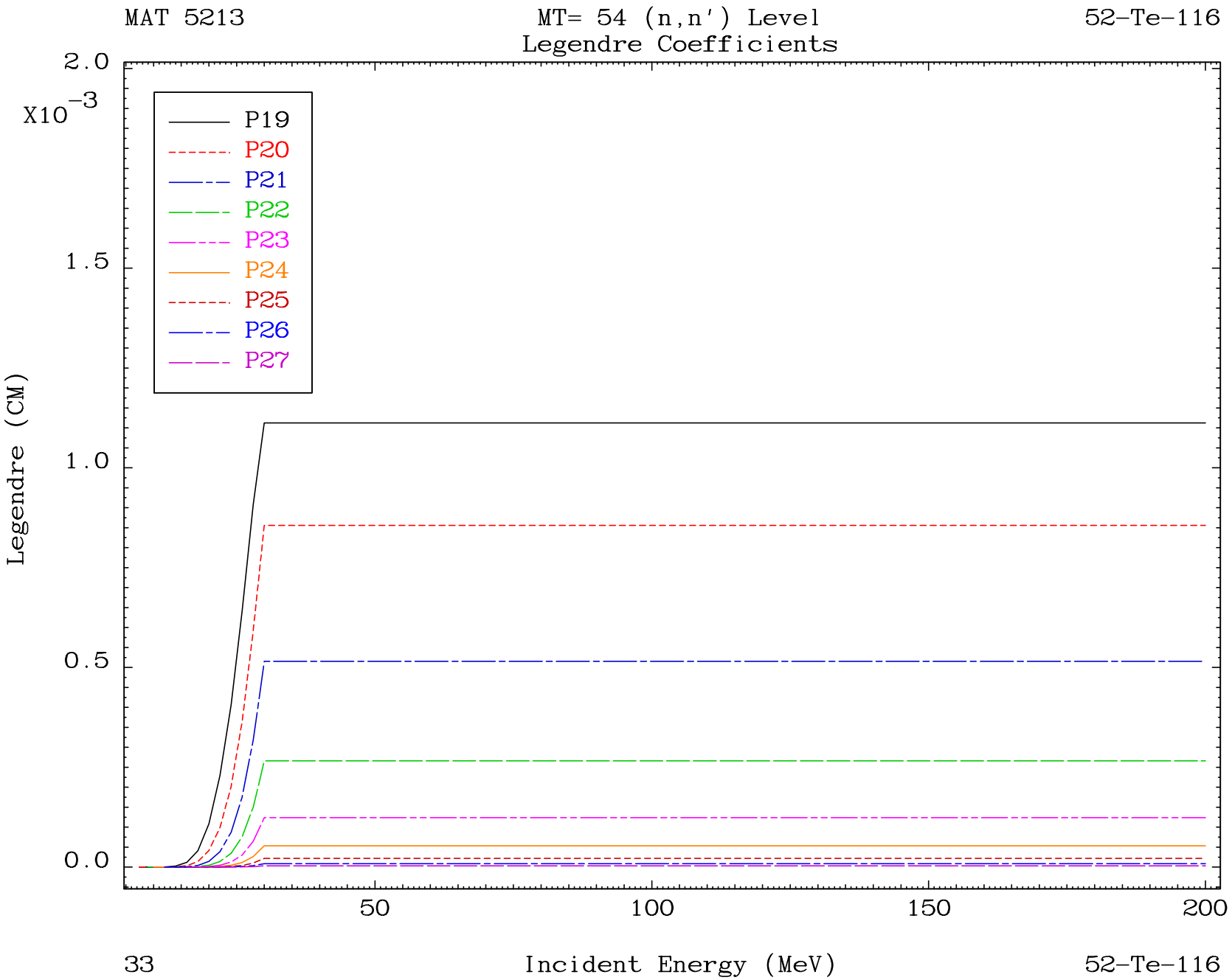

MAT 5213
MT= 53 (n,n') Level
Legendre Coefficients
52-Te-116
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.04
0.02
0.00
-0.02
-0.04
Legendre (CM)
0
50
100
150
200
28
Incident Energy (MeV)
52-Te-116

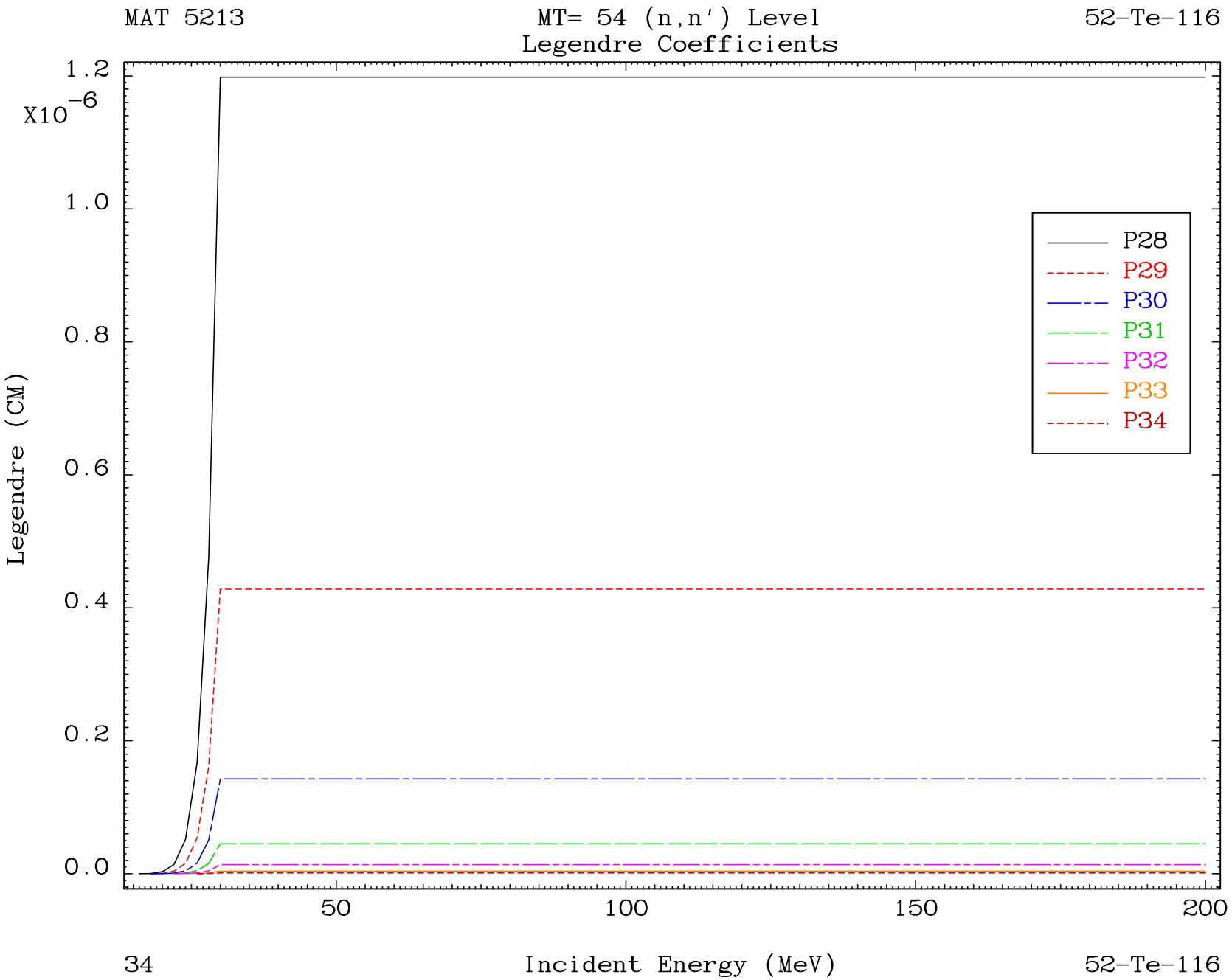

MAT 5213
MT= 53 (n,n') Level
Legendre Coefficients
52-Te-116
P19
P20
P21
P22
P23
P24
P25
P26
P27
0.006
0.004
0.002
0.000
Legendre (CM)
50
100
150
200
29
Incident Energy (MeV)
52-Te-116

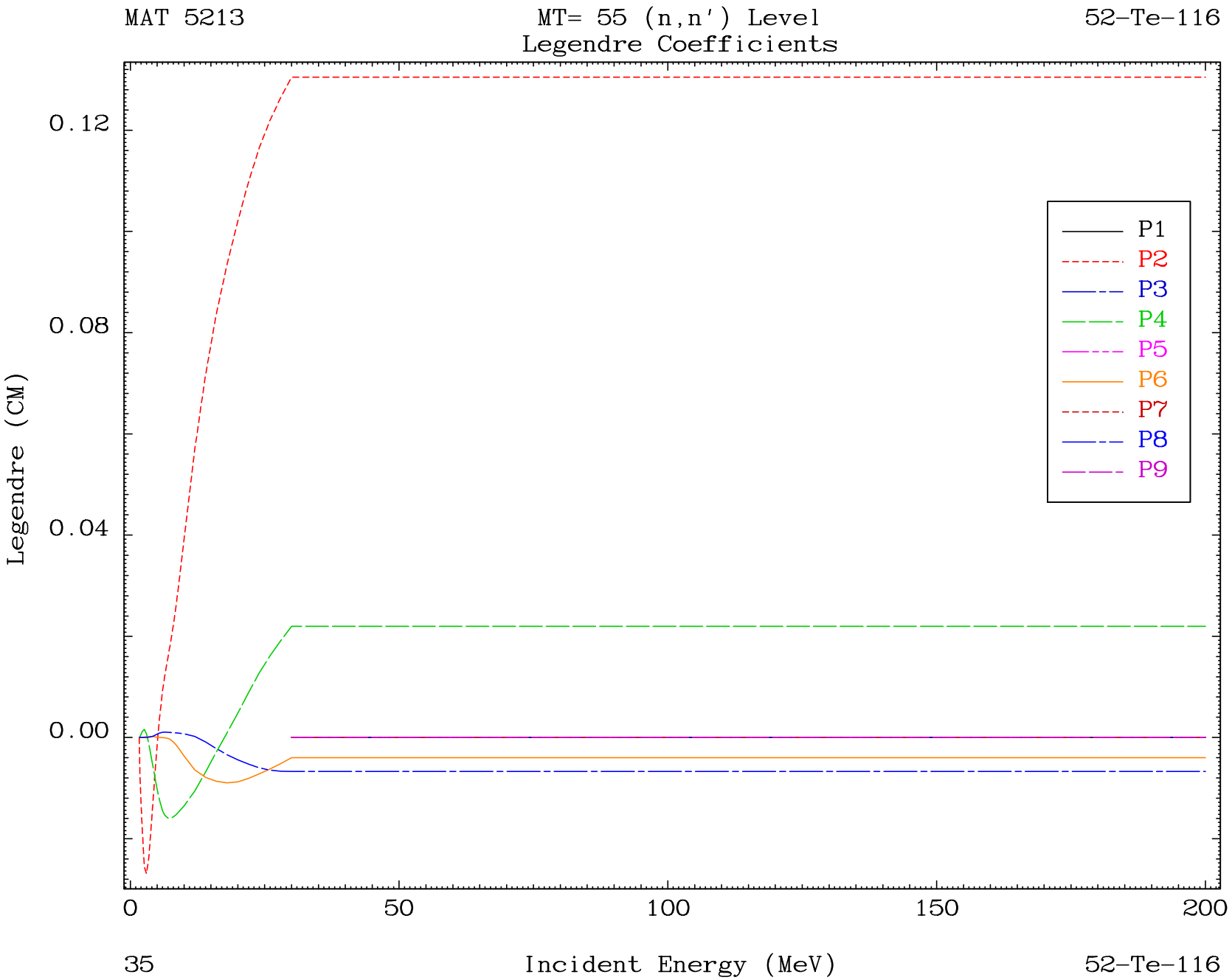

MAT 5213
MT= 53 (n,n') Level
Legendre Coefficients
52-Te-116
X10^-6
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
P35
P36
30
50
100
150
200
Incident Energy (MeV)
52-Te-116

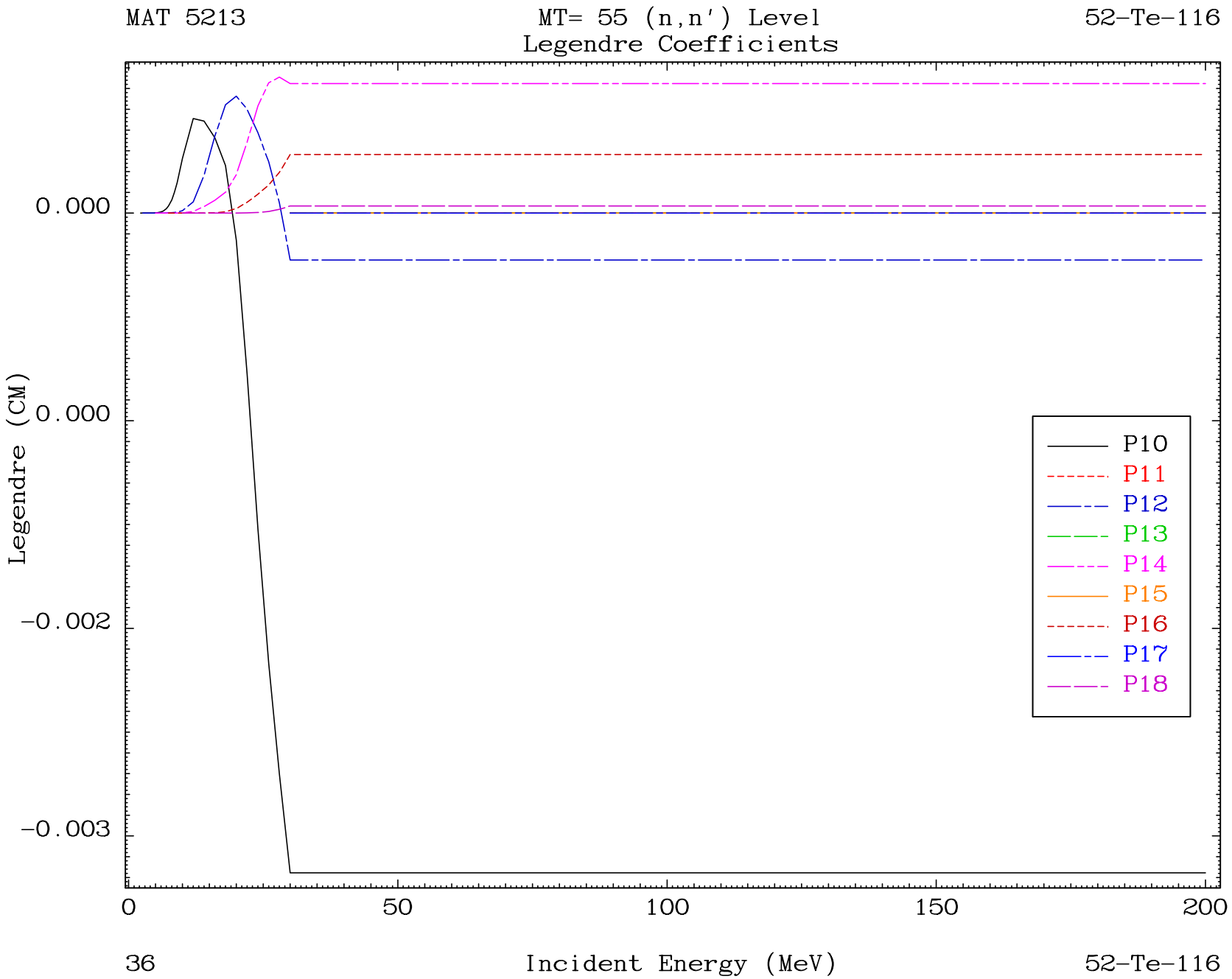

MAT 5213
MT= 54 (n,n') Level
Legendre Coefficients
52-Te-116
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
31
Incident Energy (MeV)
52-Te-116

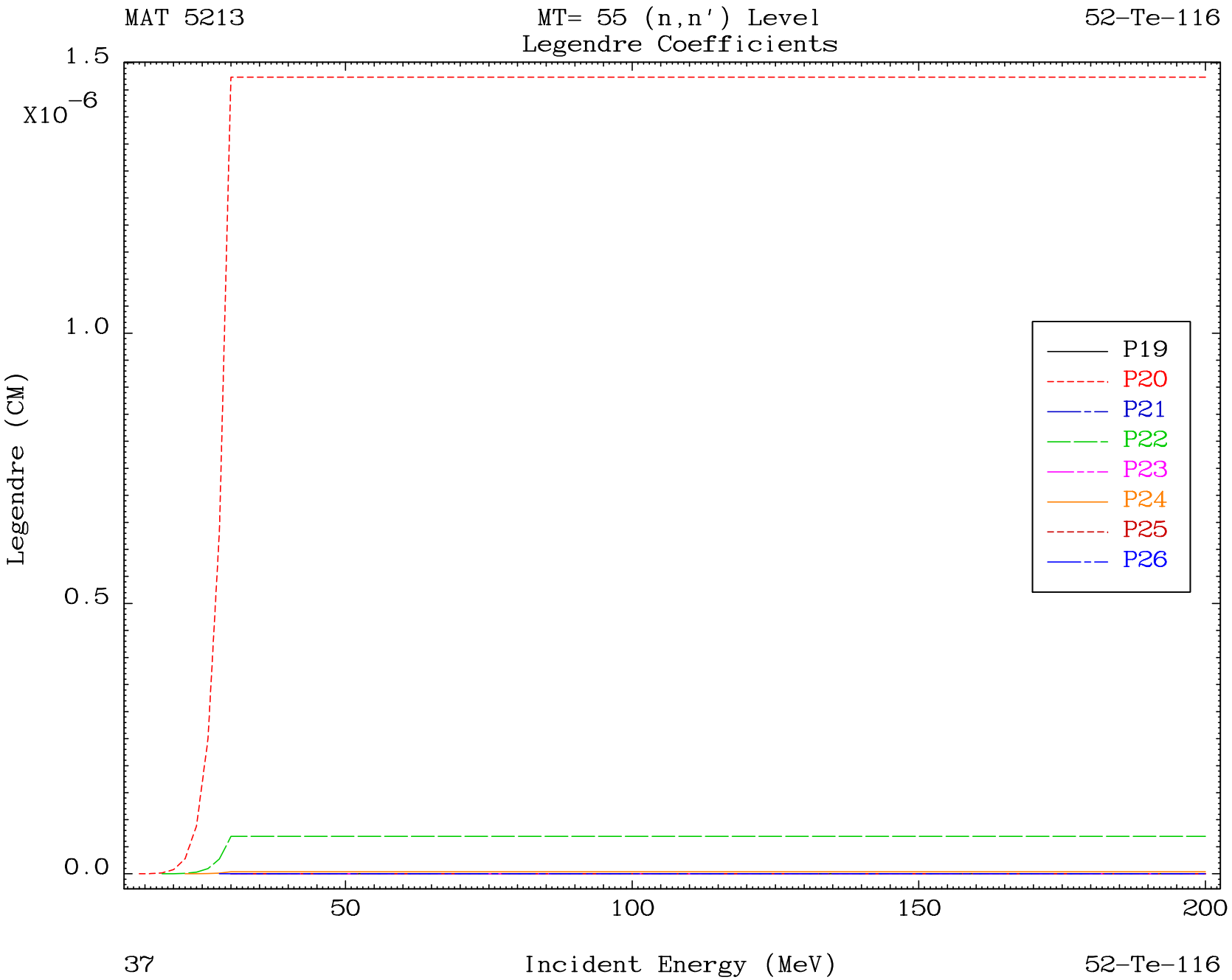

MAT 5213
MT= 54 (n,n') Level
Legendre Coefficients
52-Te-116
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.04
0.03
0.02
0.01
0.00
Legendre (CM)
0
50
100
150
200
32
Incident Energy (MeV)
52-Te-116

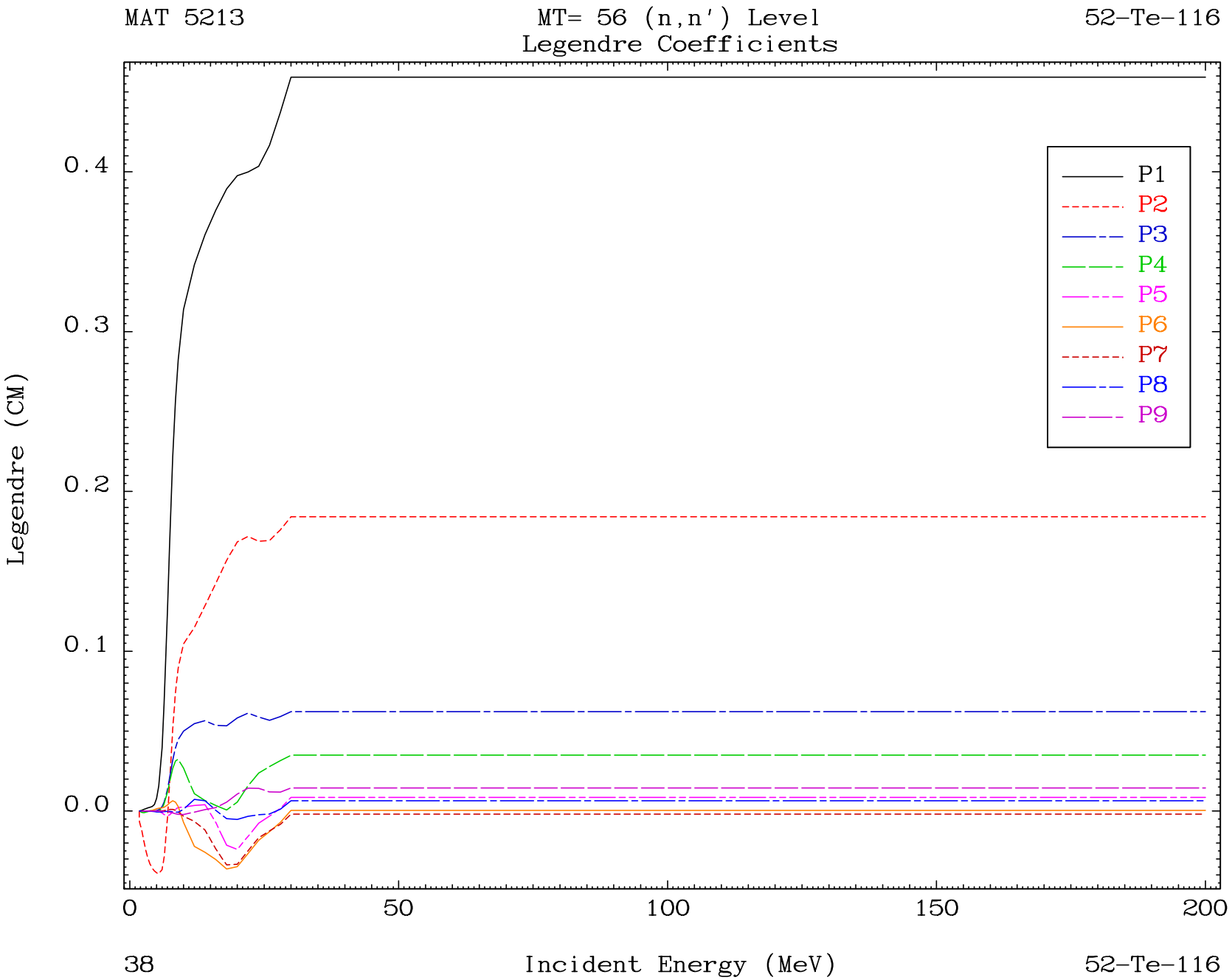

MAT 5213
MT= 54 (n,n') Level
Legendre Coefficients
52-Te-116
2.0
X10^-3
1.5
1.0
0.5
0.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
33
Incident Energy (MeV)
52-Te-116

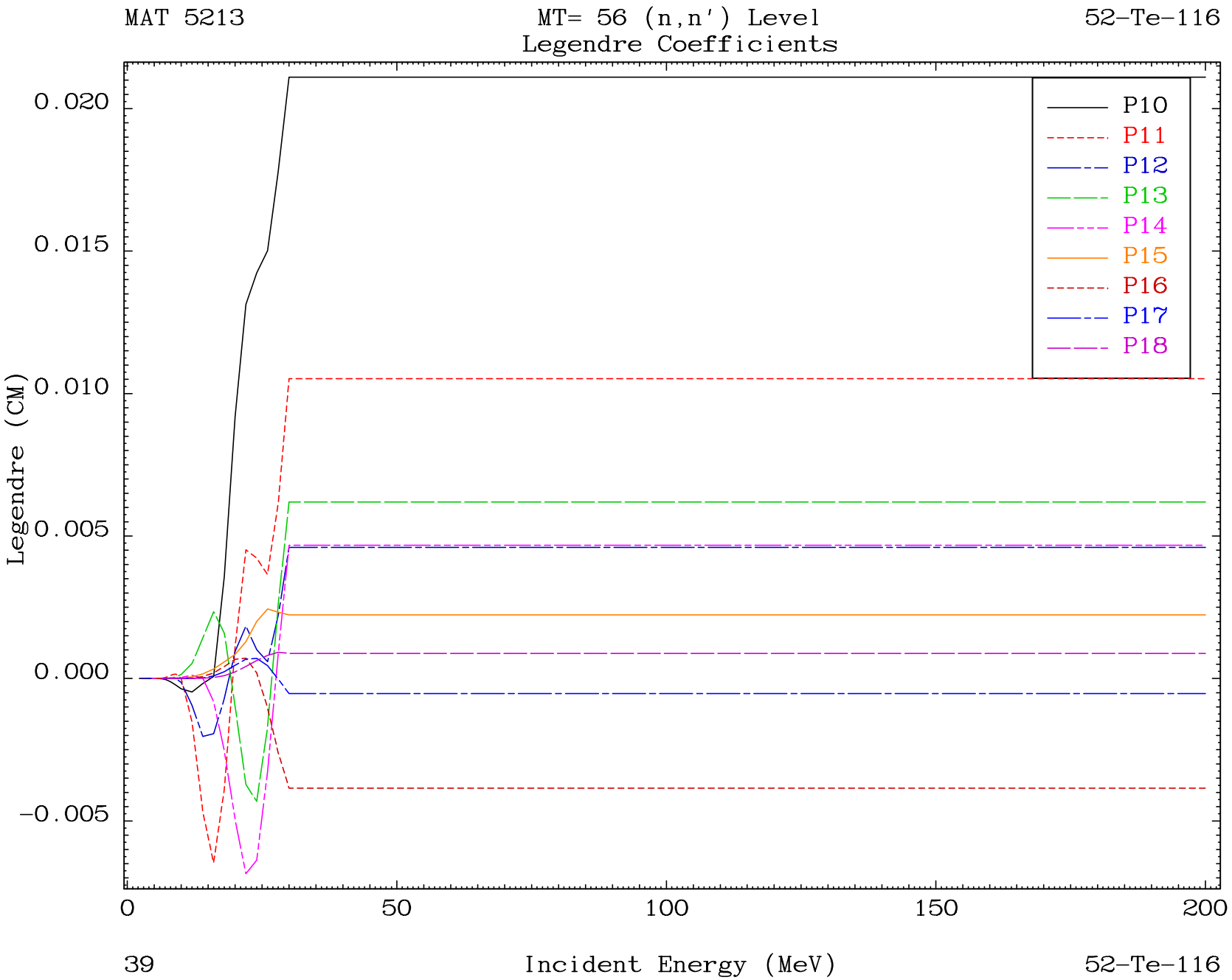

MAT 5213
MT= 54 (n,n') Level
Legendre Coefficients
52-Te-116
X10 −6
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
34
Incident Energy (MeV)
52-Te-116

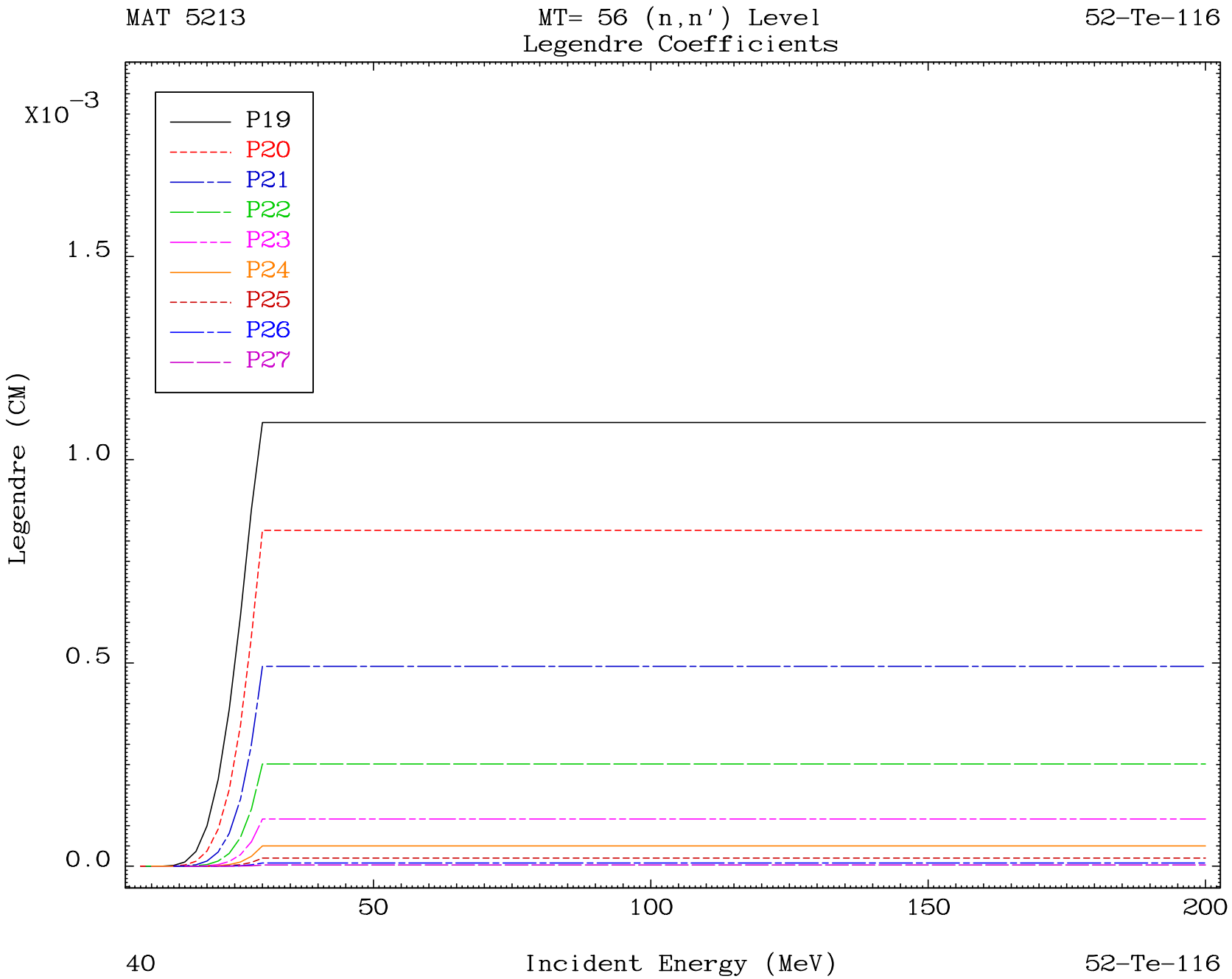

MAT 5213
MT= 55 (n,n') Level
Legendre Coefficients
52-Te-116
0.12
0.08
0.04
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
35
Incident Energy (MeV)
52-Te-116

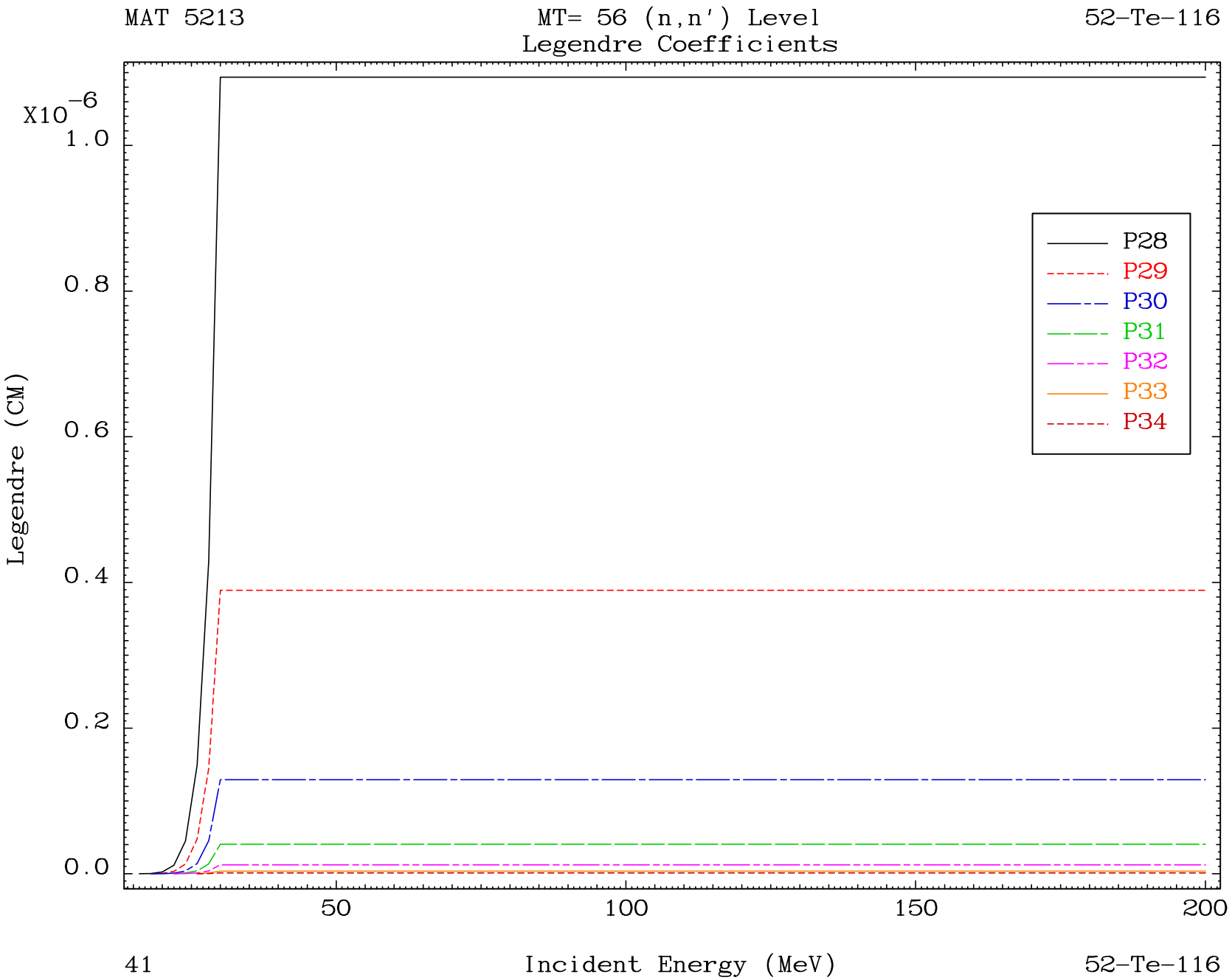

MAT 5213
MT= 55 (n,n') Level
Legendre Coefficients
52-Te-116
0.000
0.000
-0.002
-0.003
Legendre (CM)
0
50
100
150
200
Incident Energy (MeV)
36
52-Te-116
P10
P11
P12
P13
P14
P15
P16
P17
P18

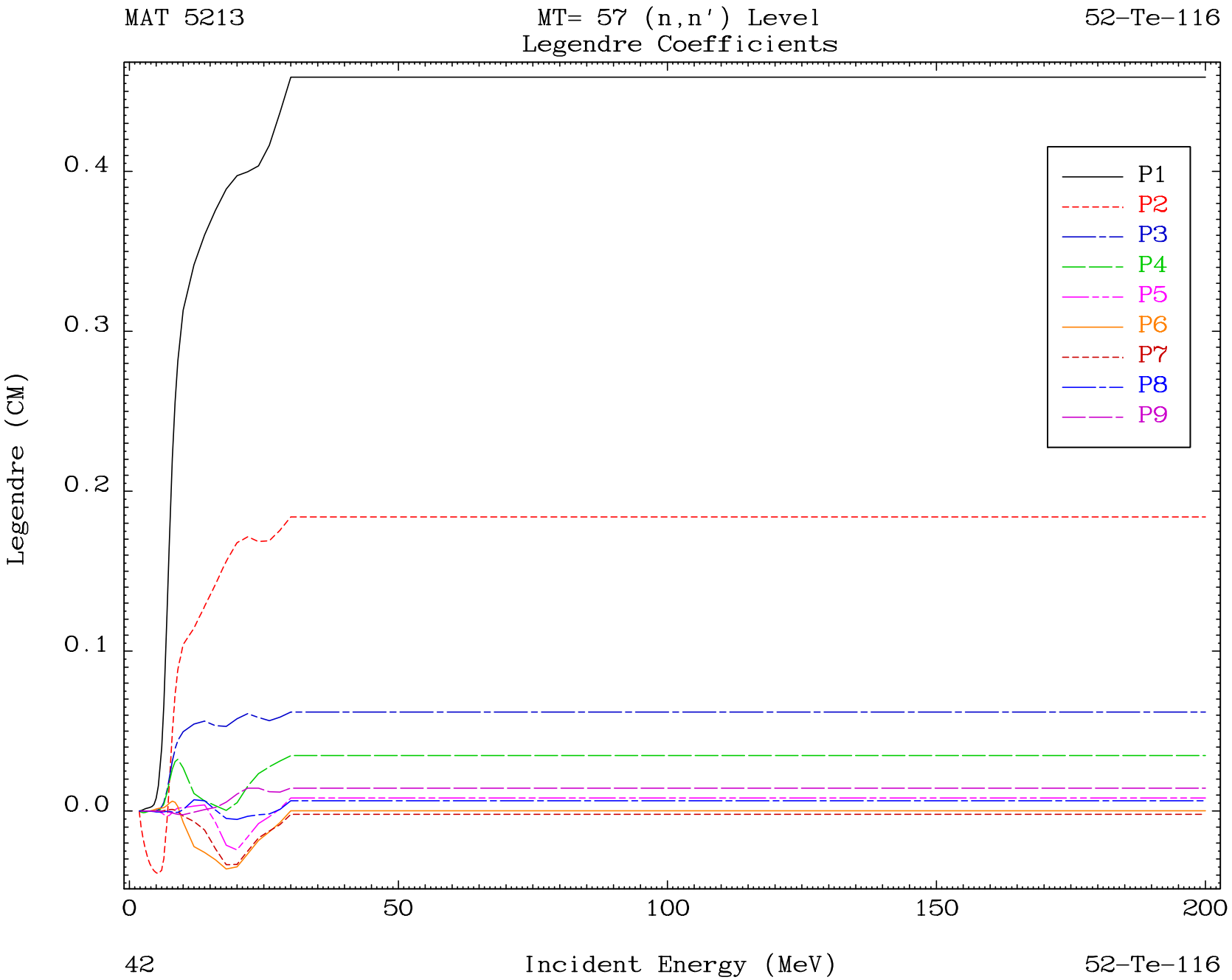

MAT 5213
MT= 55 (n,n') Level
Legendre Coefficients
52-Te-116
1.5
X10−6
1.0
0.5
0.0
Legendre (CM)
50
100
150
200
37
Incident Energy (MeV)
52-Te-116
P19
P20
P21
P22
P23
P24
P25
P26

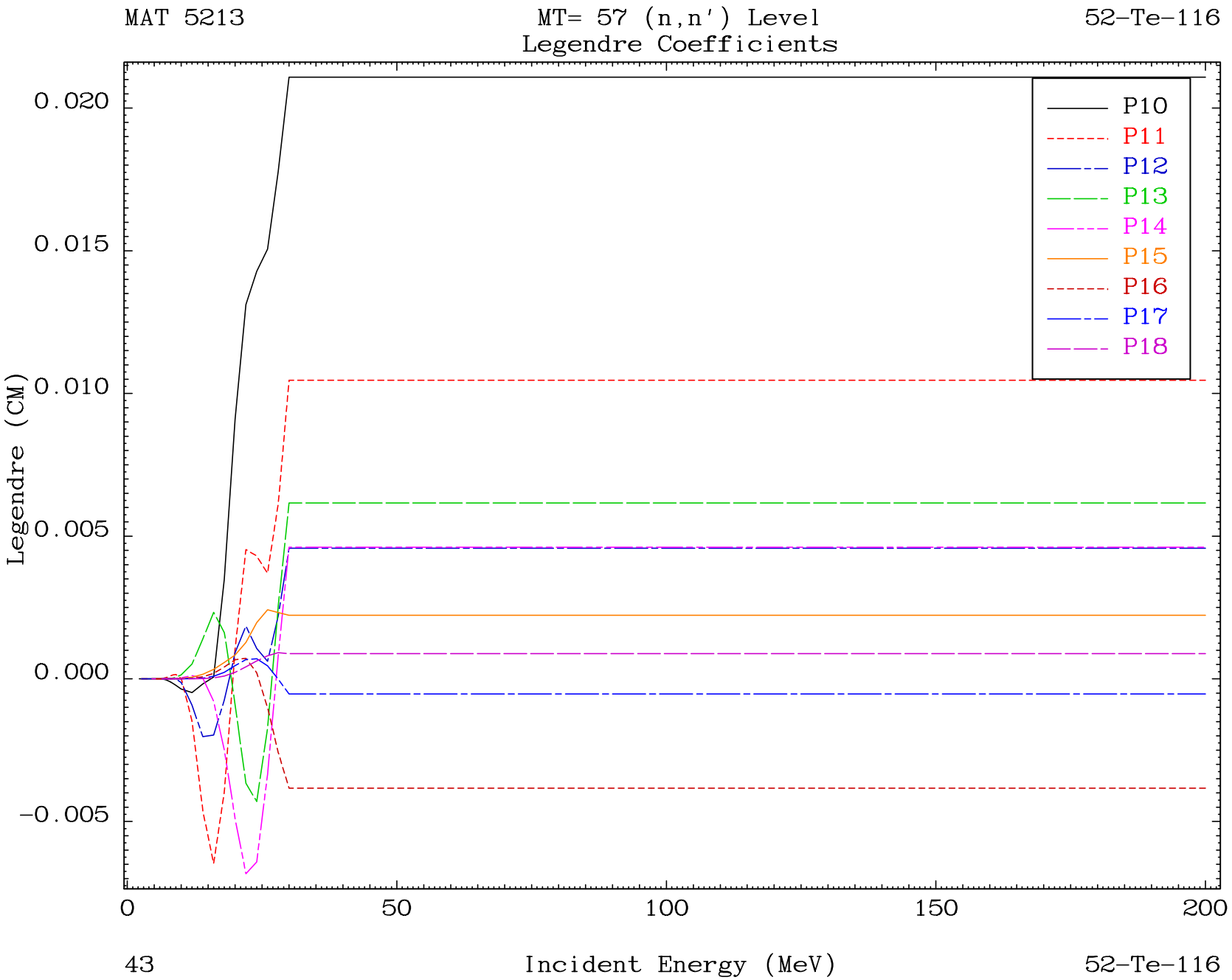

MAT 5213
MT= 56 (n,n') Level
Legendre Coefficients
52-Te-116
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
Incident Energy (MeV)
38
52-Te-116
P1
P2
P3
P4
P5
P6
P7
P8
P9

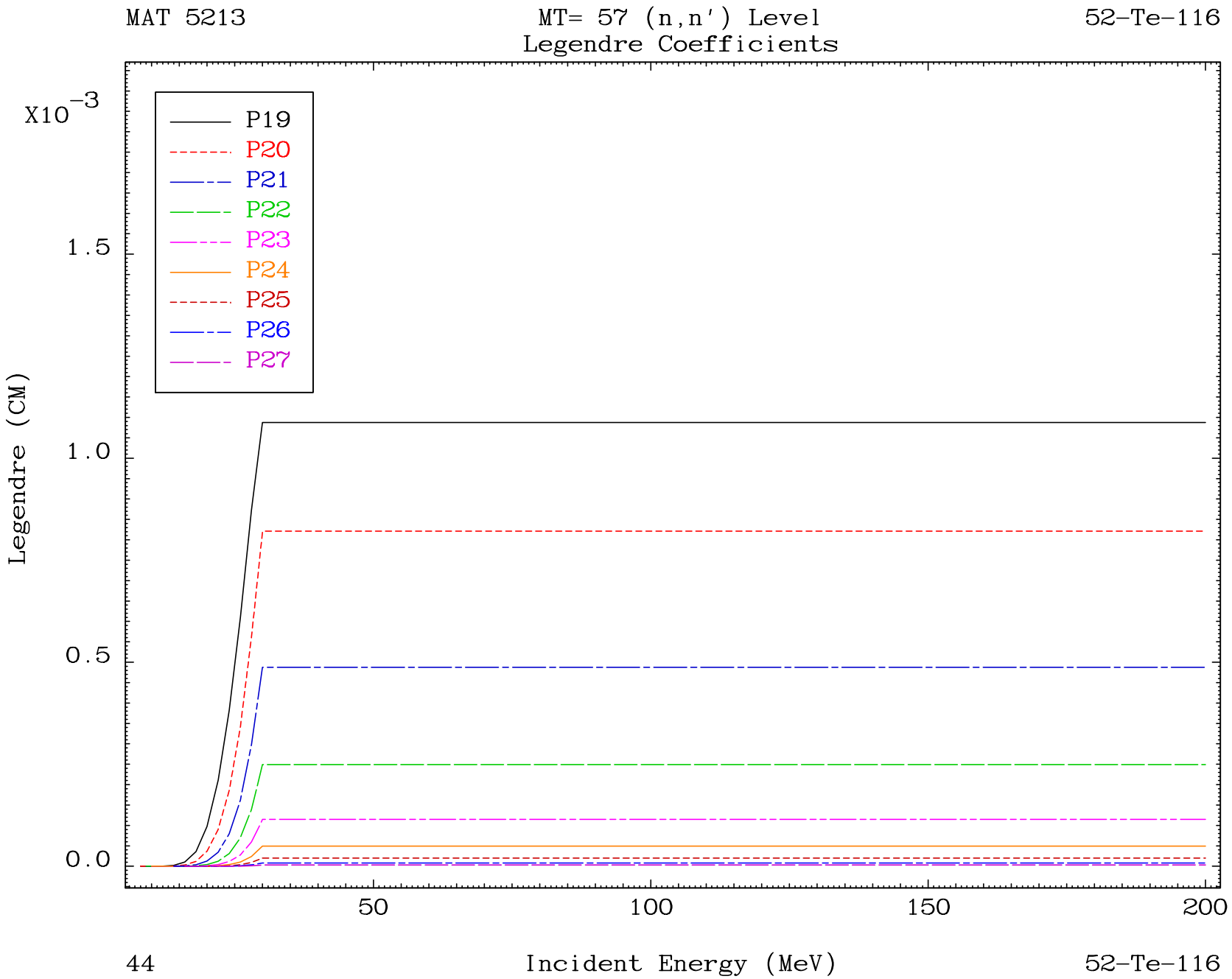

MAT 5213
MT= 56 (n,n') Level
Legendre Coefficients
52-Te-116
0.020
0.015
0.010
0.005
0.000
-0.005
Legendre (CM)
0
50
100
150
200
39
Incident Energy (MeV)
52-Te-116
P10
P11
P12
P13
P14
P15
P16
P17
P18

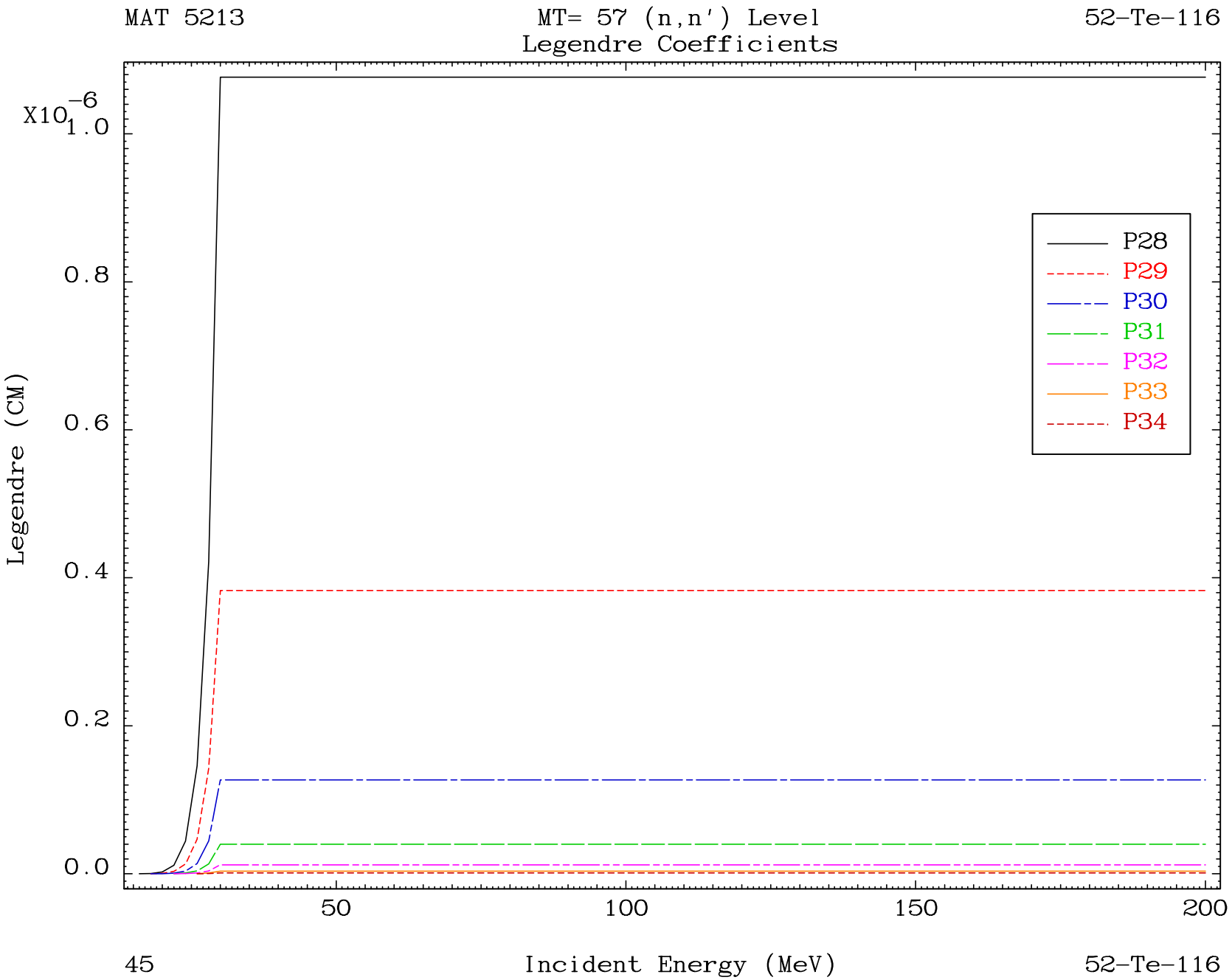

MAT 5213
MT= 56 (n,n') Level
Legendre Coefficients
52-Te-116
X10^-3
P19
P20
P21
P22
P23
P24
P25
P26
P27
1.5
1.0
0.5
0.0
Legendre (CM)
50
100
150
200
40
Incident Energy (MeV)
52-Te-116

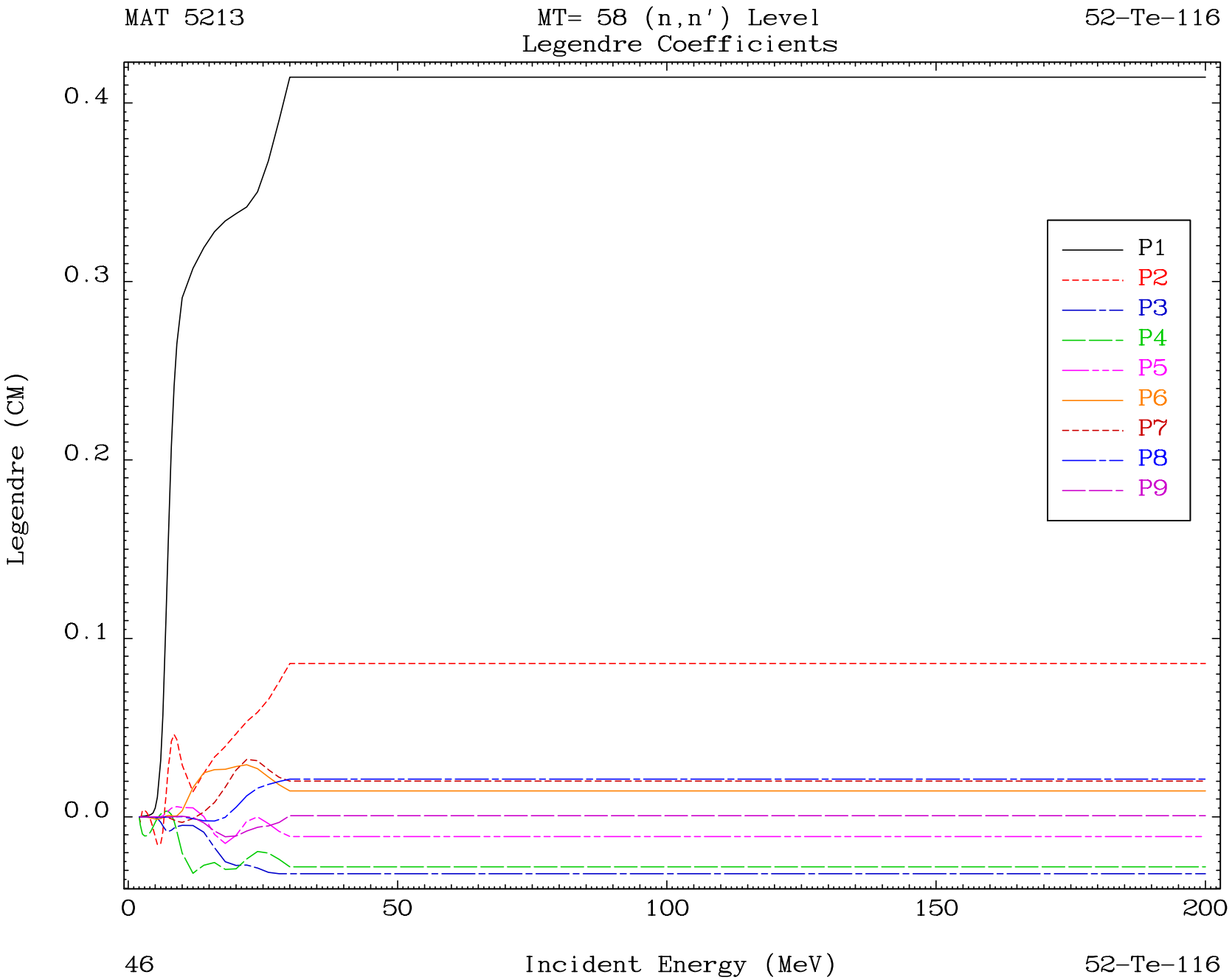

MAT 5213
MT= 56 (n,n') Level
Legendre Coefficients
52-Te-116
X10^-6
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
41
Incident Energy (MeV)
52-Te-116

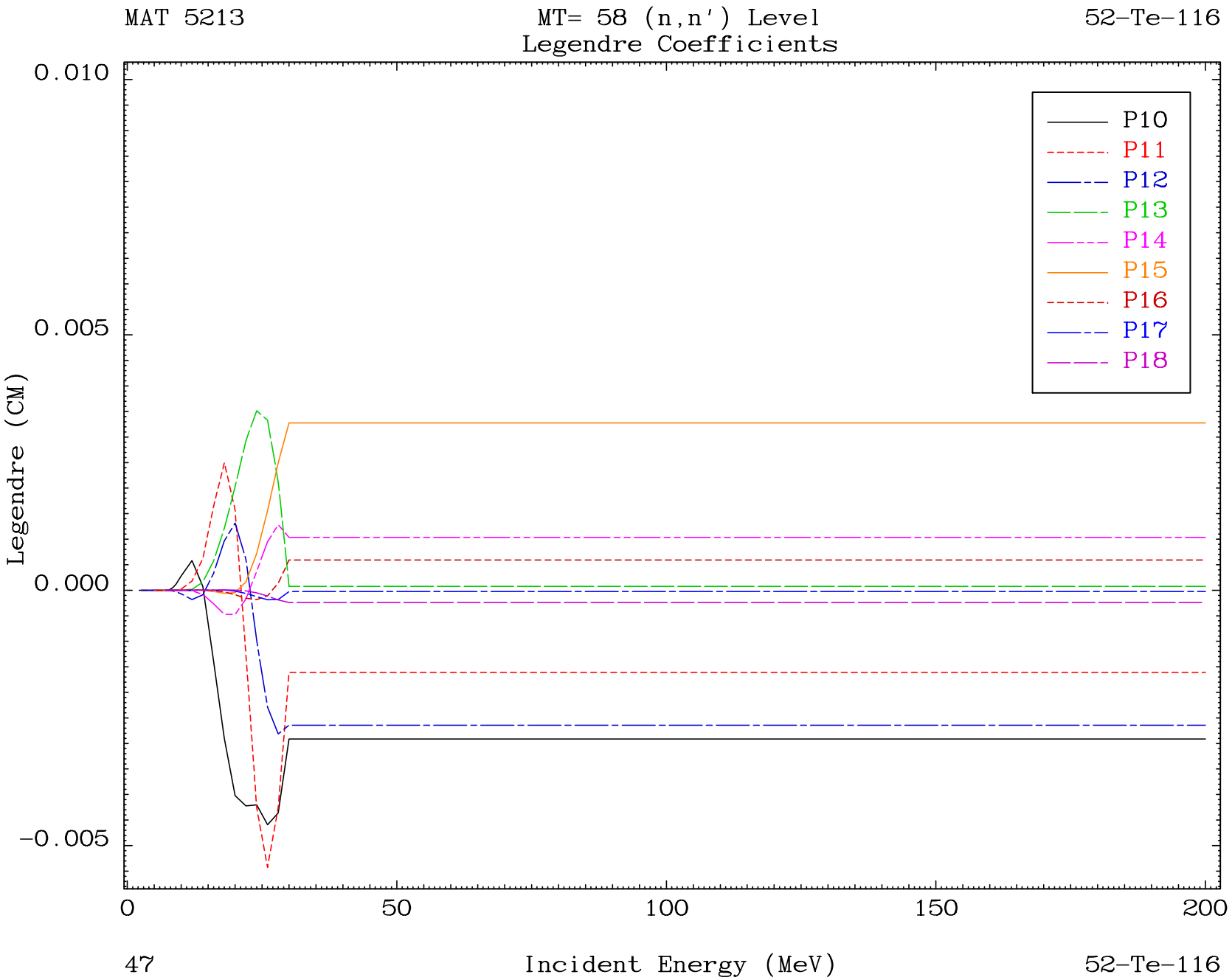

MAT 5213
MT= 57 (n,n') Level
Legendre Coefficients
52-Te-116
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
42
Incident Energy (MeV)
52-Te-116

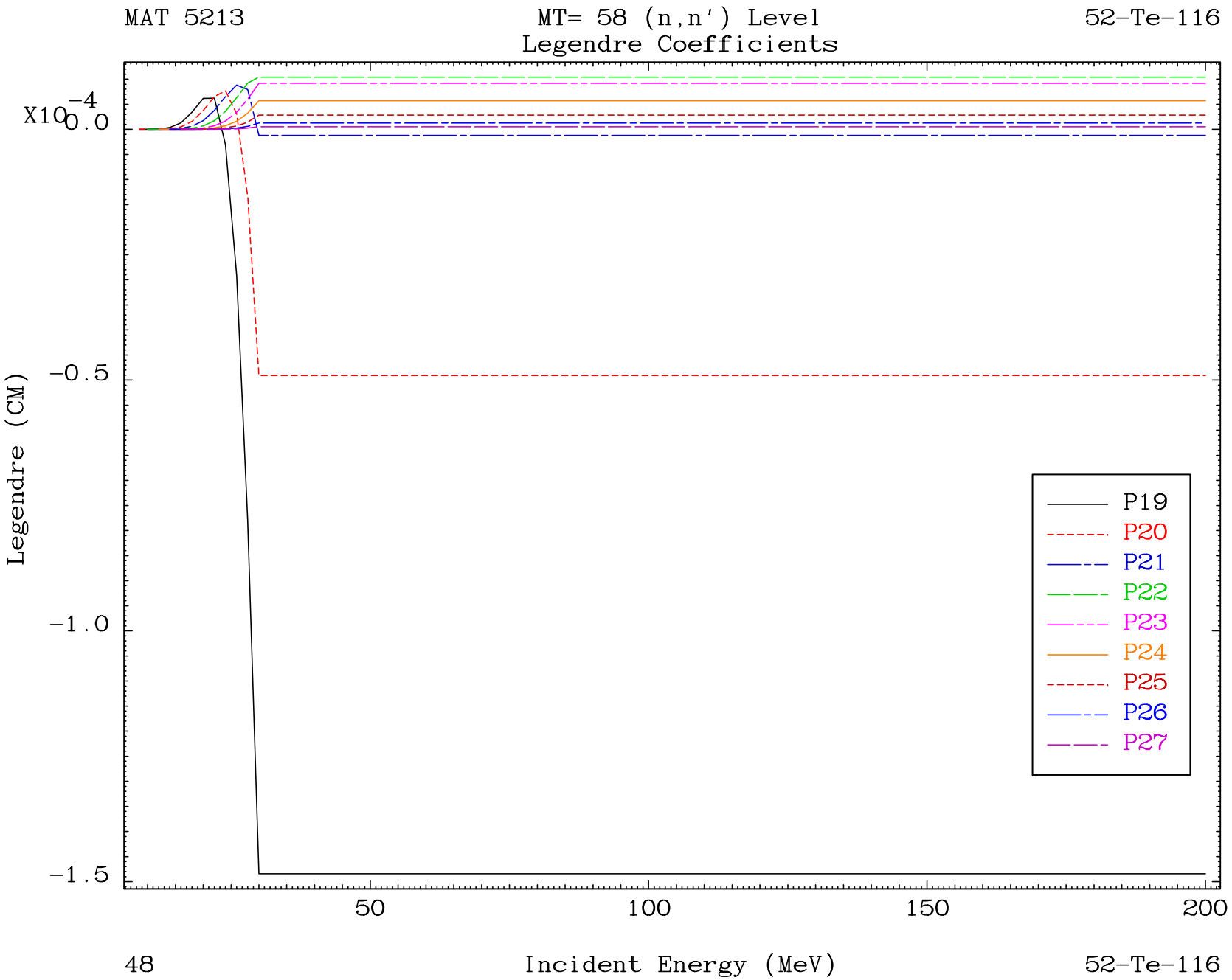

MAT 5213
MT= 57 (n,n') Level
Legendre Coefficients
52-Te-116
0.020
0.015
0.010
0.005
0.000
-0.005
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
43
Incident Energy (MeV)
52-Te-116

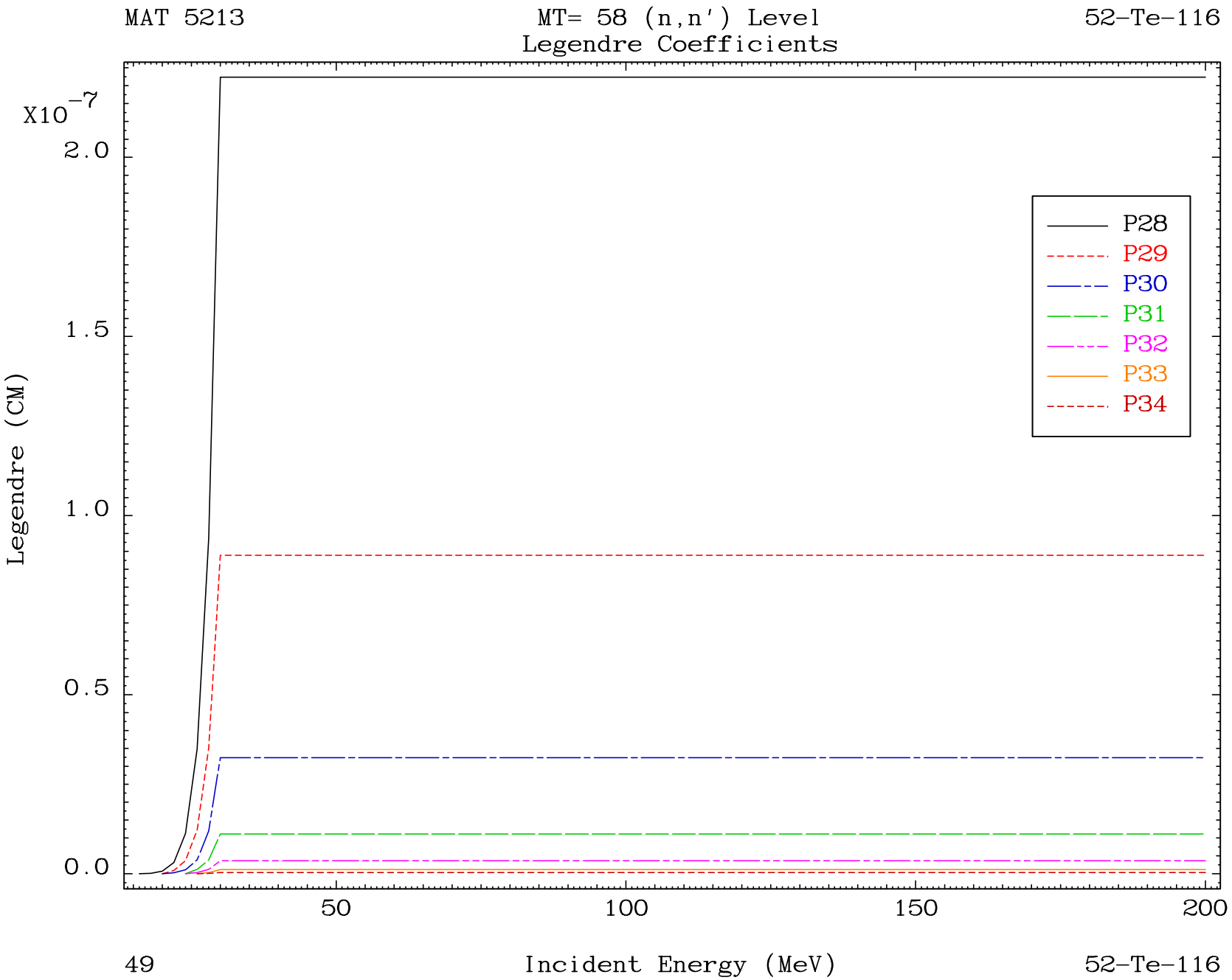

MAT 5213
MT= 57 (n,n') Level
Legendre Coefficients
52-Te-116
X10^-3
1.5
1.0
0.5
0.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
44
Incident Energy (MeV)
52-Te-116

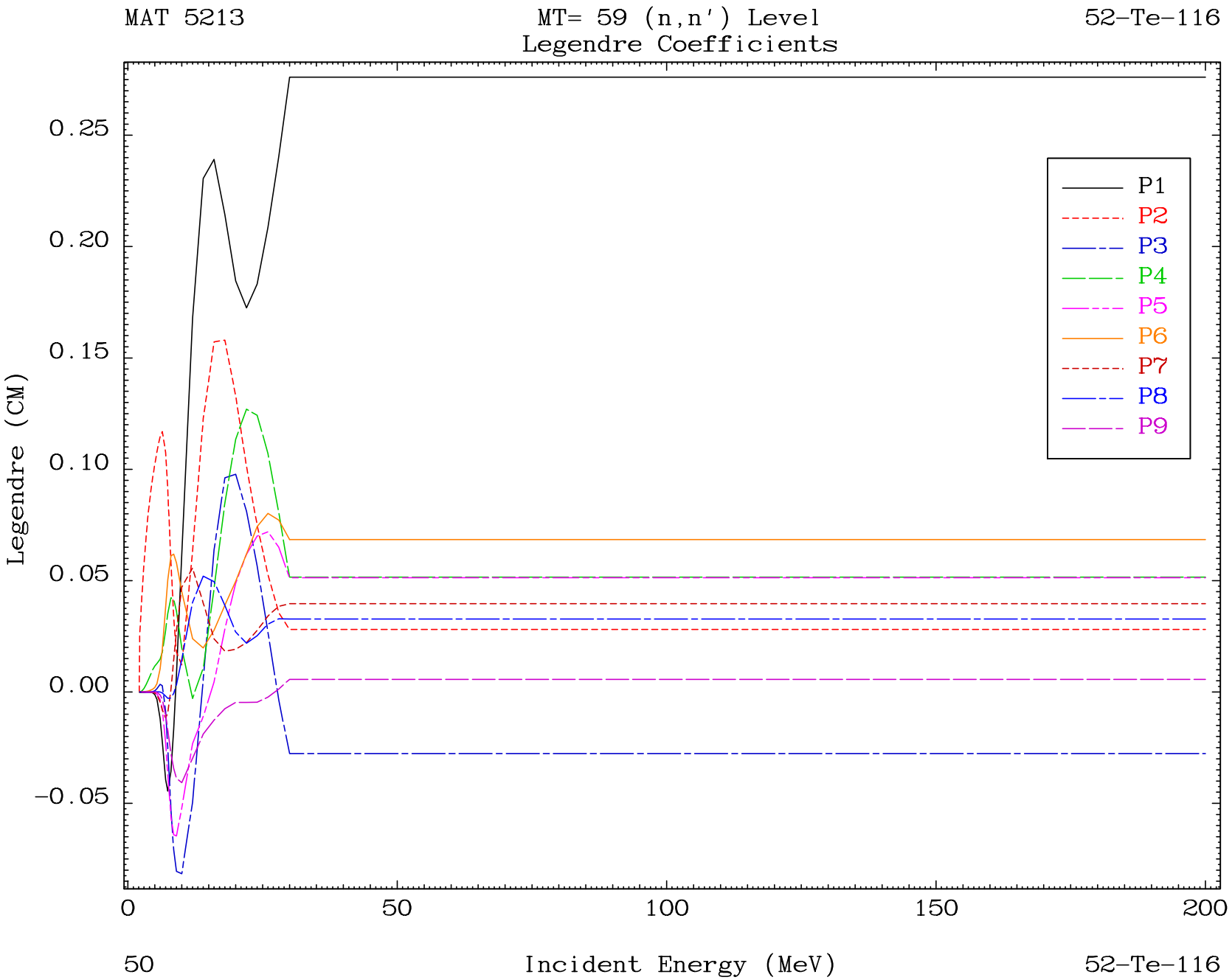

MAT 5213
MT= 57 (n,n') Level
Legendre Coefficients
52-Te-116
X10^-6
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
45
Incident Energy (MeV)
52-Te-116

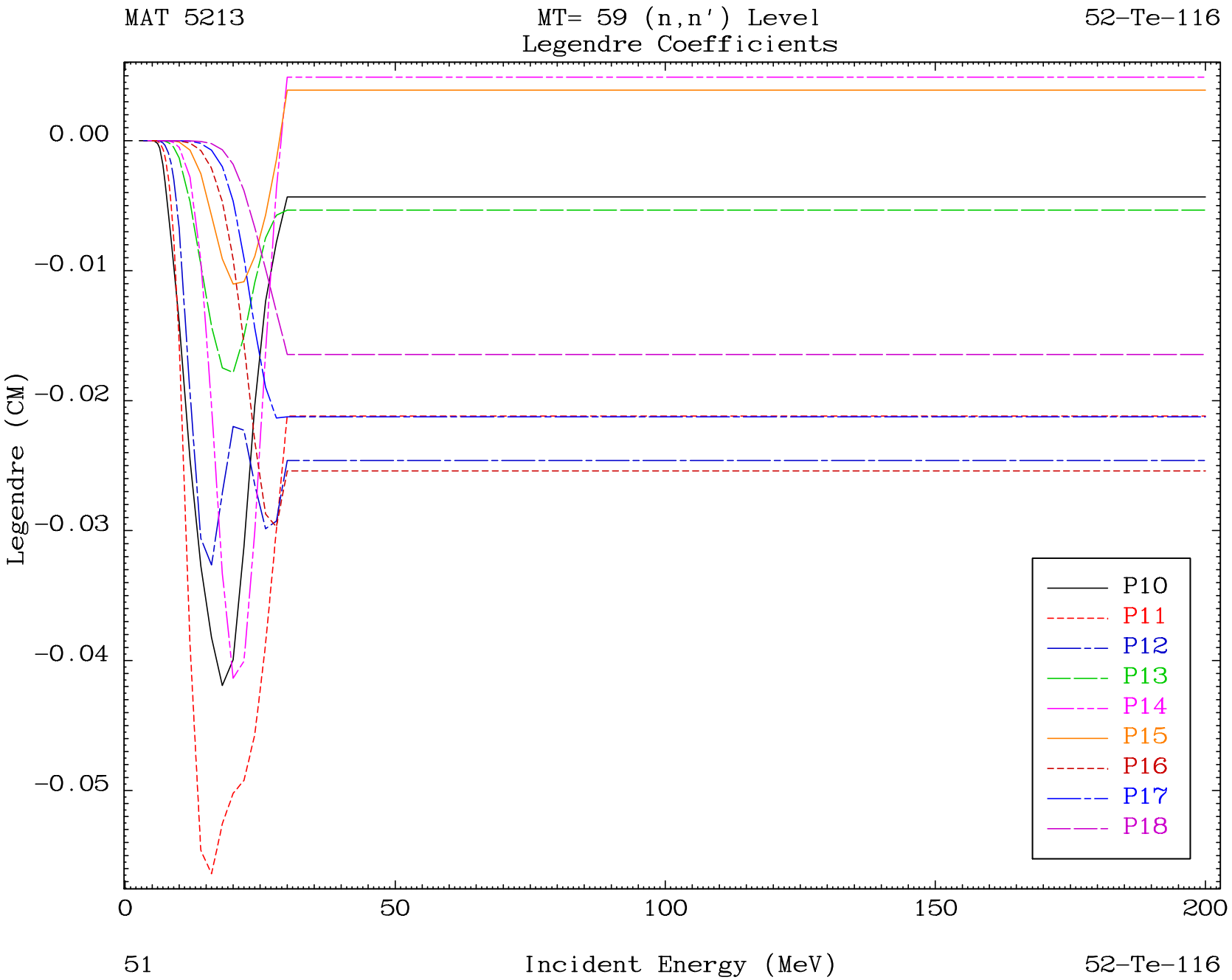

MAT 5213
MT= 58 (n,n') Level
Legendre Coefficients
52-Te-116
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
Incident Energy (MeV)
46
52-Te-116
P1
P2
P3
P4
P5
P6
P7
P8
P9

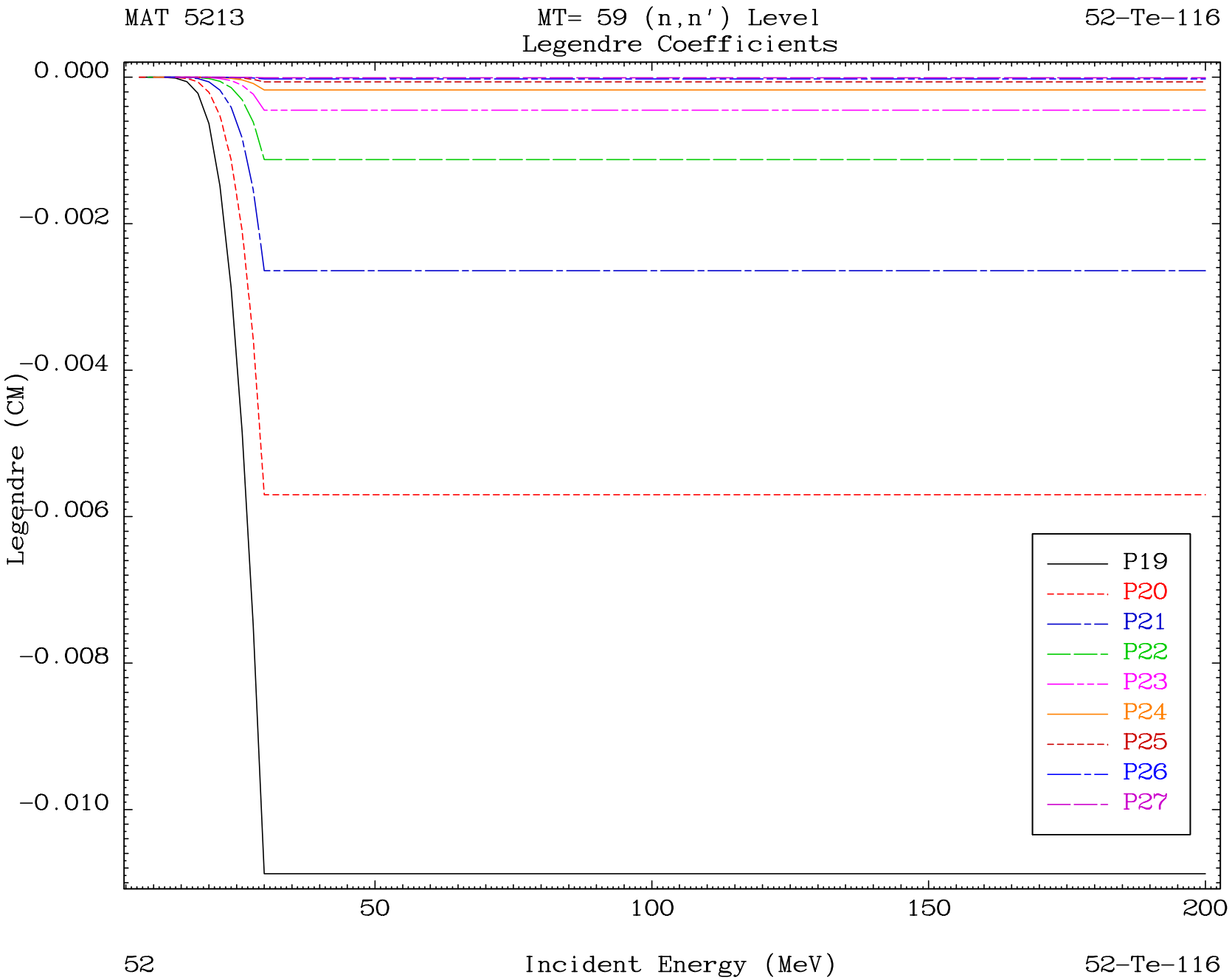

MAT 5213
MT= 58 (n,n') Level
Legendre Coefficients
52-Te-116
0.010
0.005
0.000
-0.005
Legendre (CM)
0
50
100
150
200
Incident Energy (MeV)
47
52-Te-116
P10
P11
P12
P13
P14
P15
P16
P17
P18

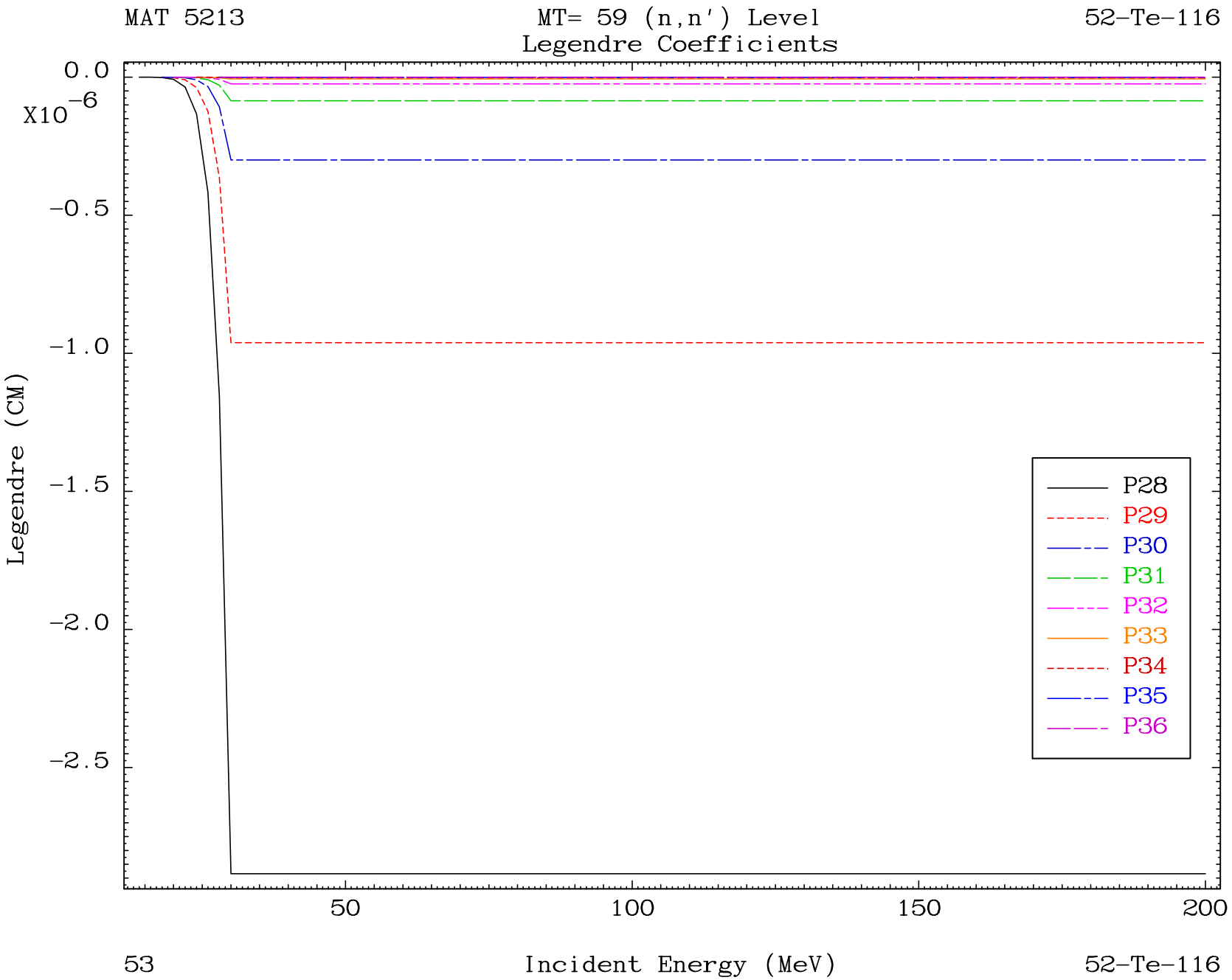

MAT 5213
MT= 58 (n,n') Level
Legendre Coefficients
52-Te-116
X10^-4
0.0
-0.5
-1.0
-1.5
Legendre (CM)
50
100
150
200
48
Incident Energy (MeV)
52-Te-116
P19
P20
P21
P22
P23
P24
P25
P26
P27

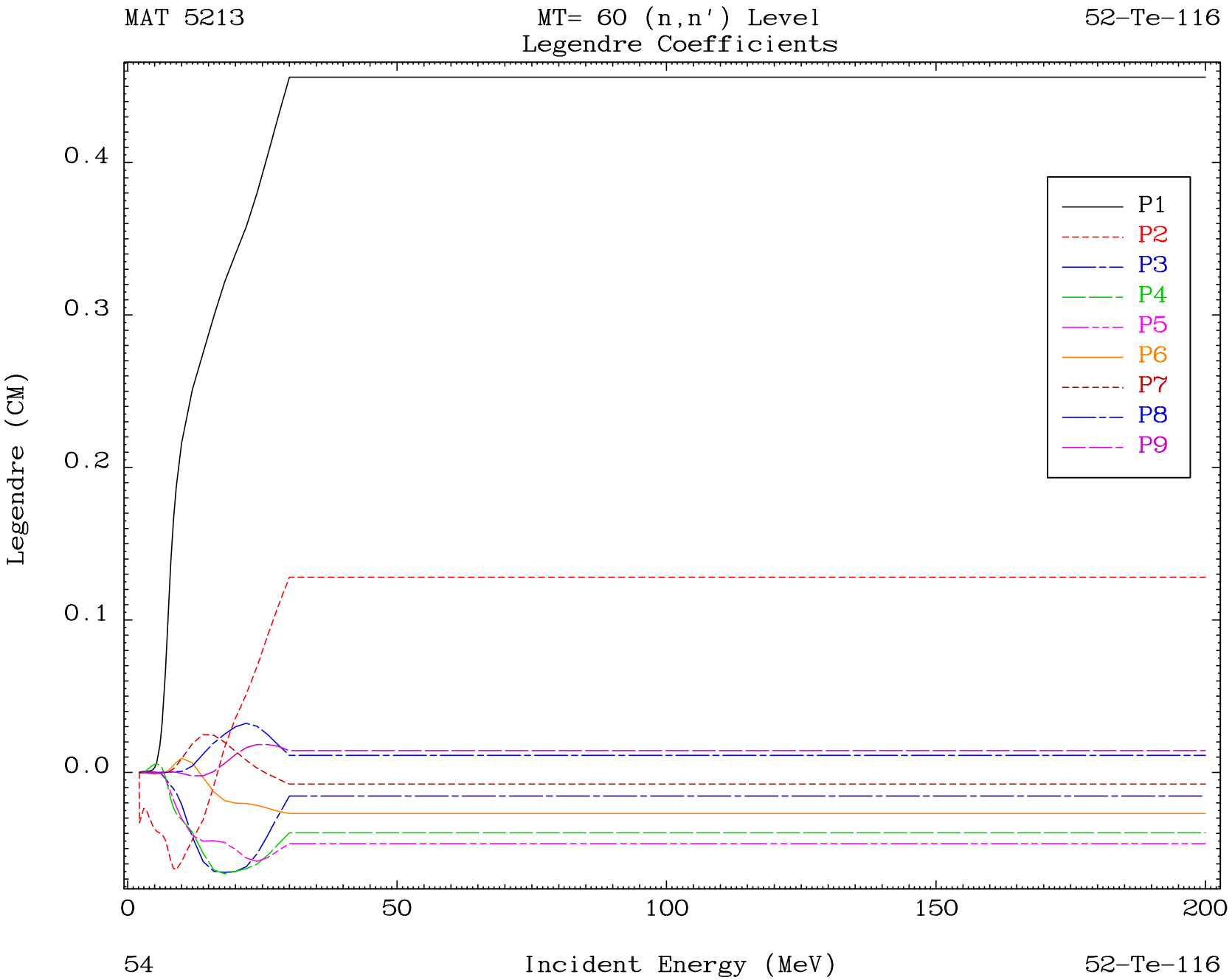

MAT 5213
MT= 58 (n,n') Level
Legendre Coefficients
52-Te-116
X10-7
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
49
Incident Energy (MeV)
52-Te-116

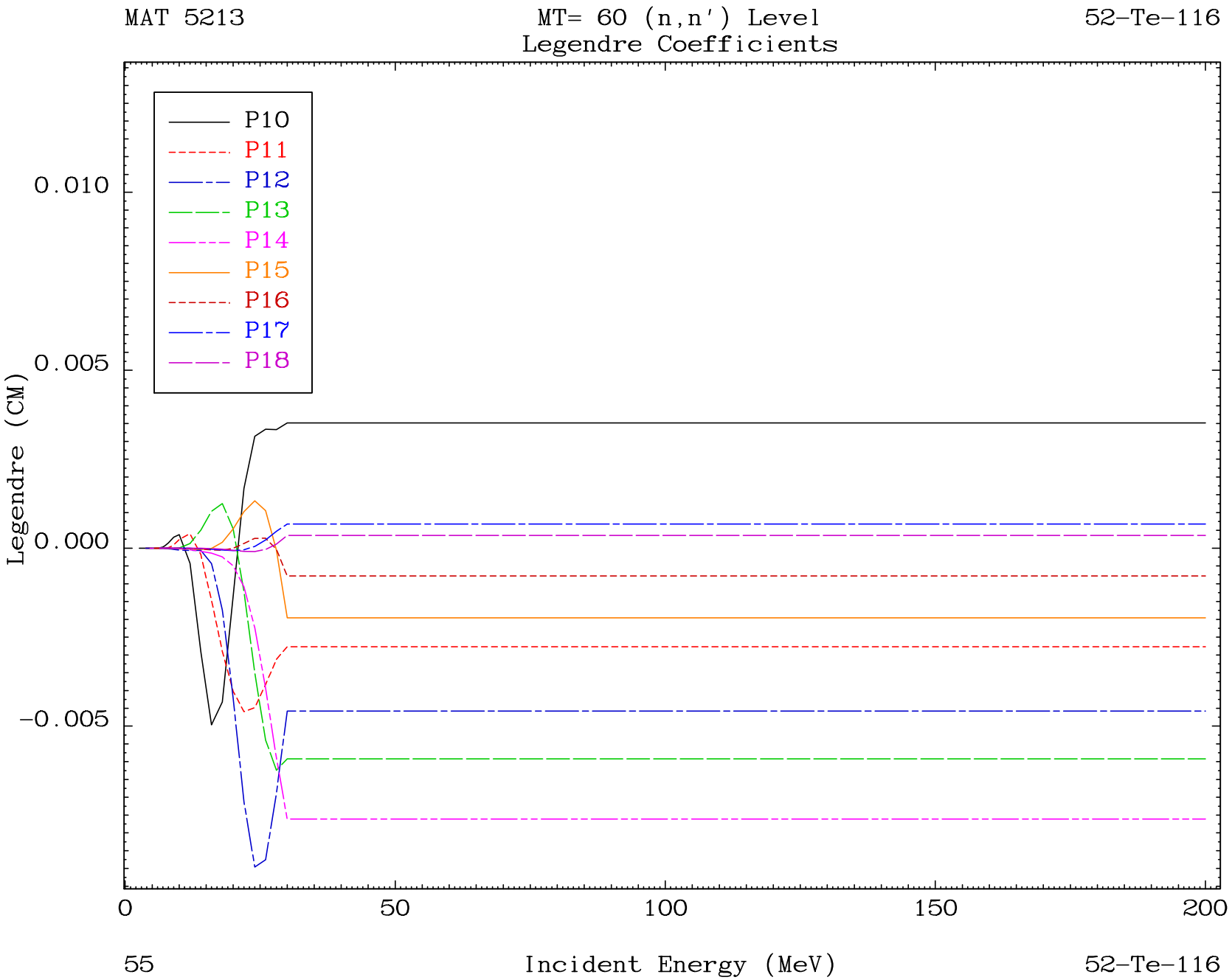

MAT 5213
MT= 59 (n,n') Level
Legendre Coefficients
52-Te-116
0.25
0.20
0.15
0.10
0.05
0.00
-0.05
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
50
Incident Energy (MeV)
52-Te-116

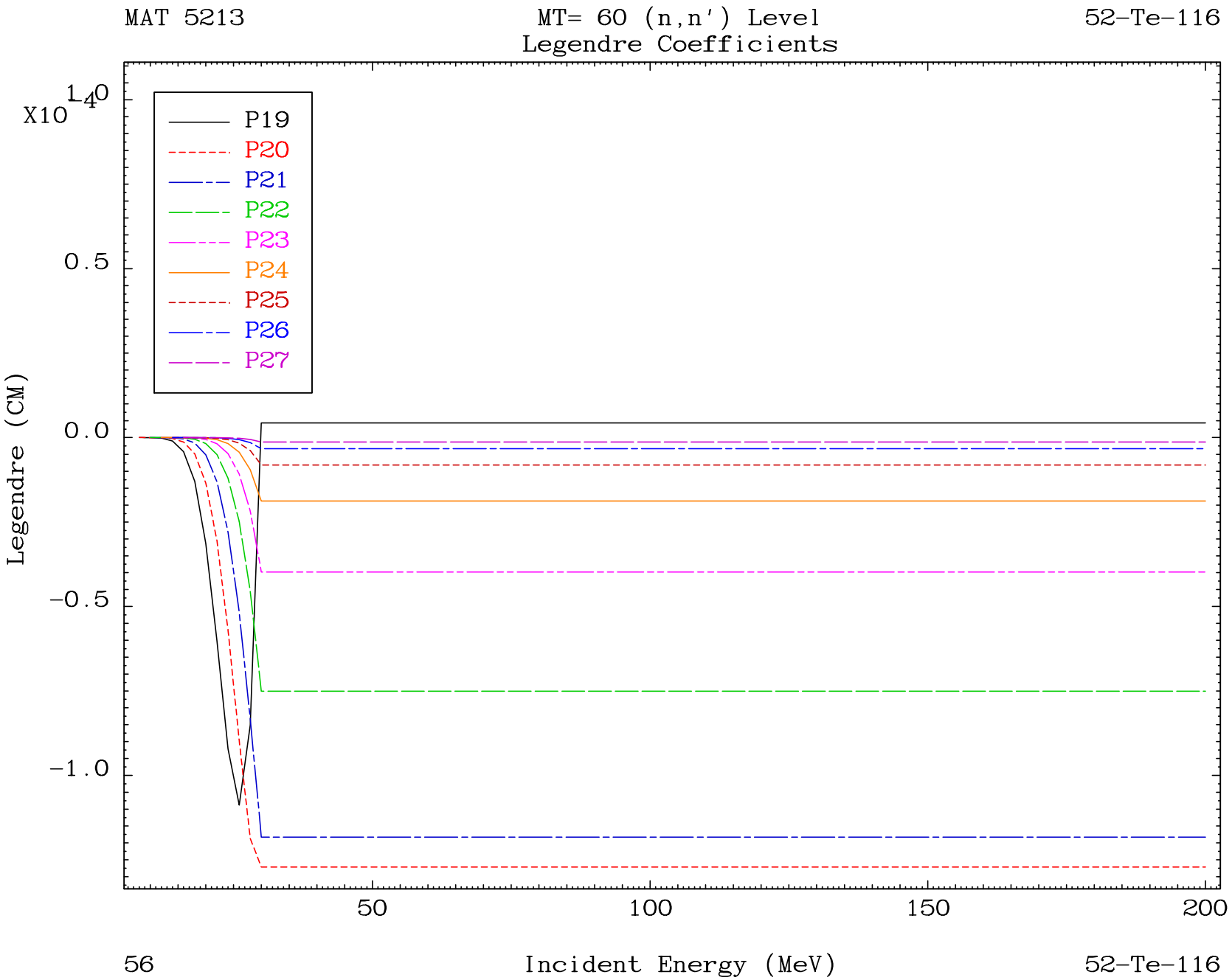

MAT 5213
MT= 59 (n,n') Level
Legendre Coefficients
52-Te-116
0.00
-0.01
-0.02
-0.03
-0.04
-0.05
Legendre (CM)
0
50
100
150
200
51
Incident Energy (MeV)
52-Te-116
P10
P11
P12
P13
P14
P15
P16
P17
P18

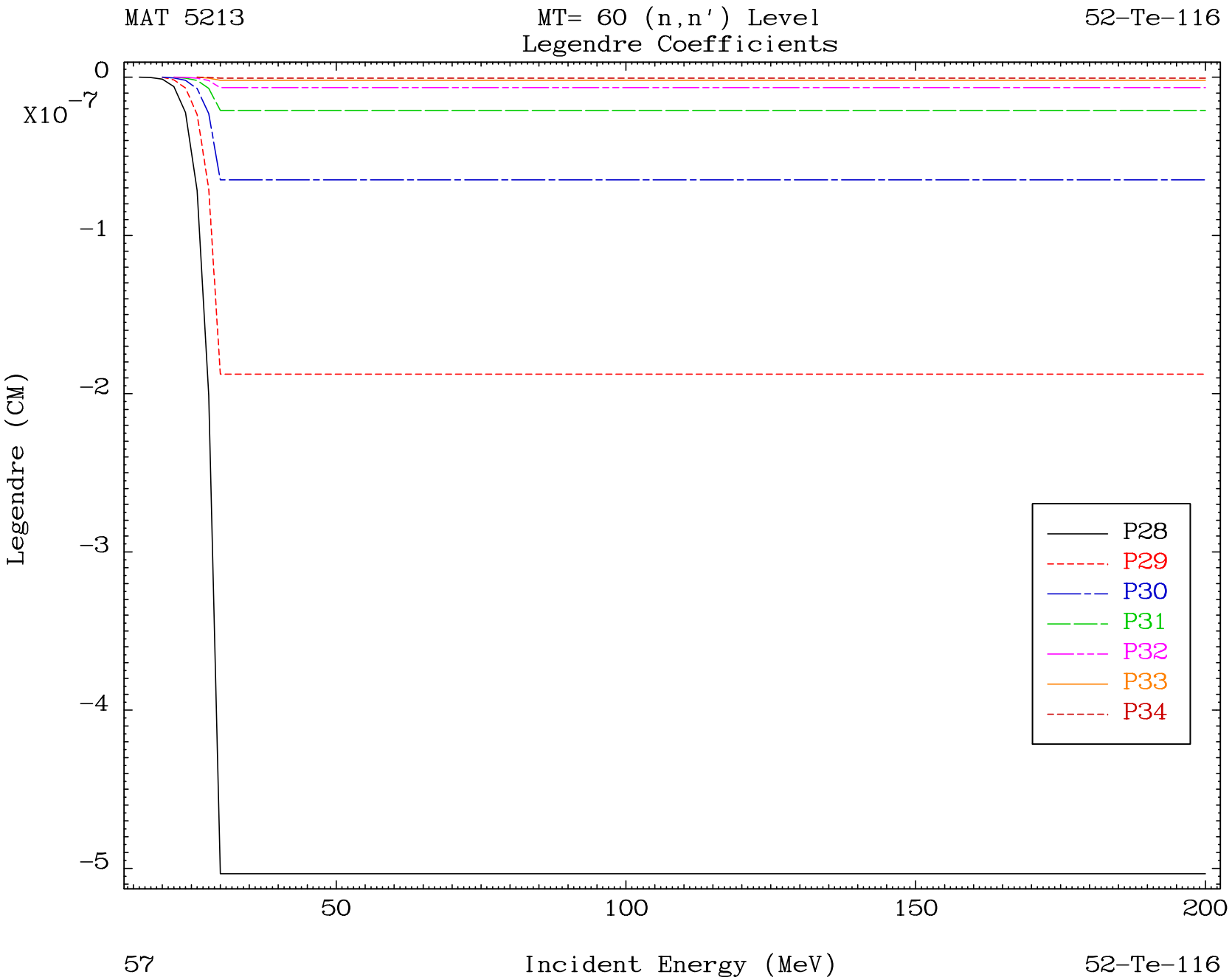

MAT 5213
MT= 59 (n,n') Level
Legendre Coefficients
52-Te-116
0.000
-0.002
-0.004
-0.006
-0.008
-0.010
Legendre (CM)
50
100
150
200
52
Incident Energy (MeV)
52-Te-116
P19
P20
P21
P22
P23
P24
P25
P26
P27

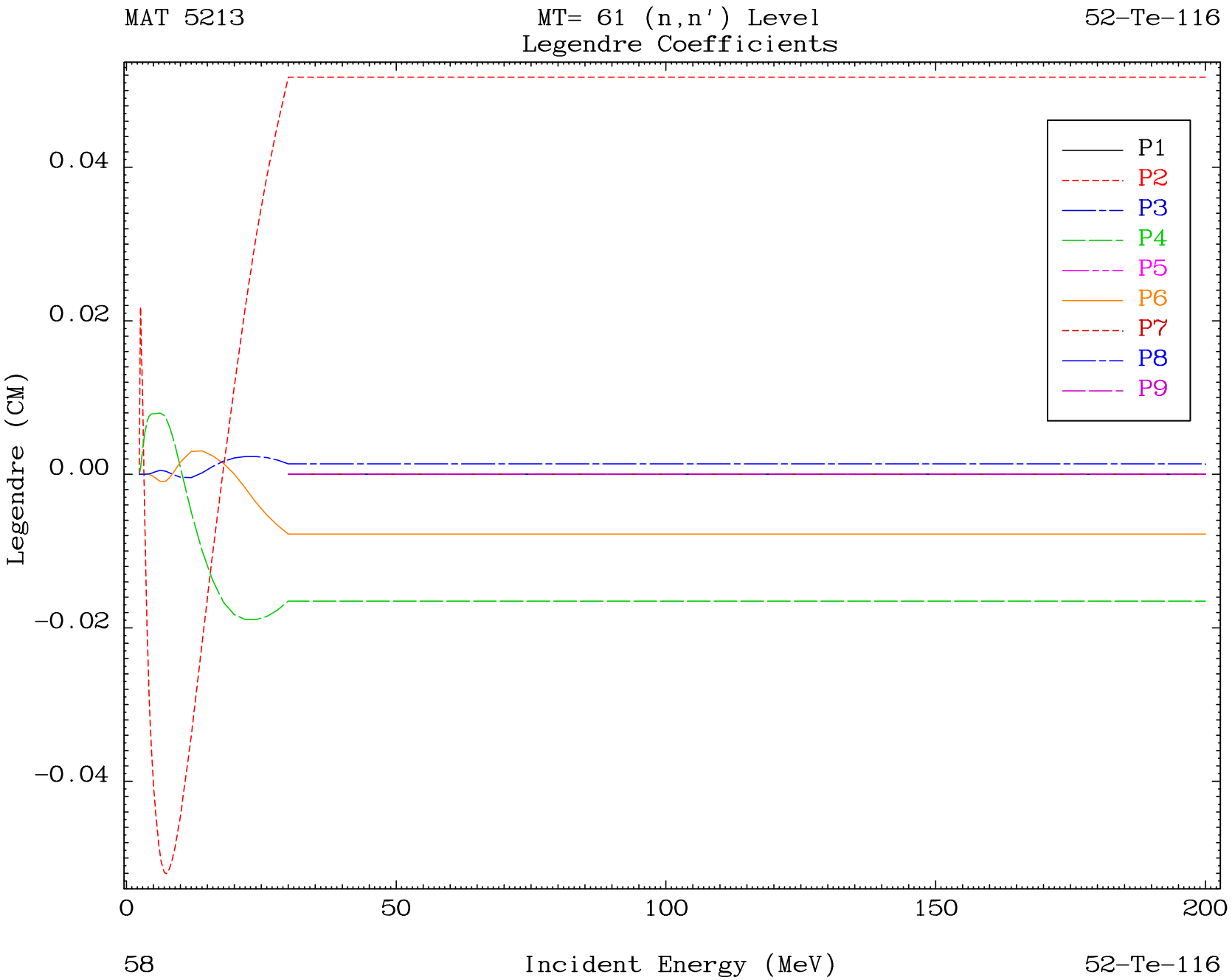

MAT 5213
MT= 59 (n,n') Level
Legendre Coefficients
52-Te-116
0.0
X10 -6
-0.5
-1.0
-1.5
-2.0
-2.5
Legendre (CM)
50
100
150
200
P28
P29
P30
P31
P32
P33
P34
P35
P36
53
Incident Energy (MeV)
52-Te-116

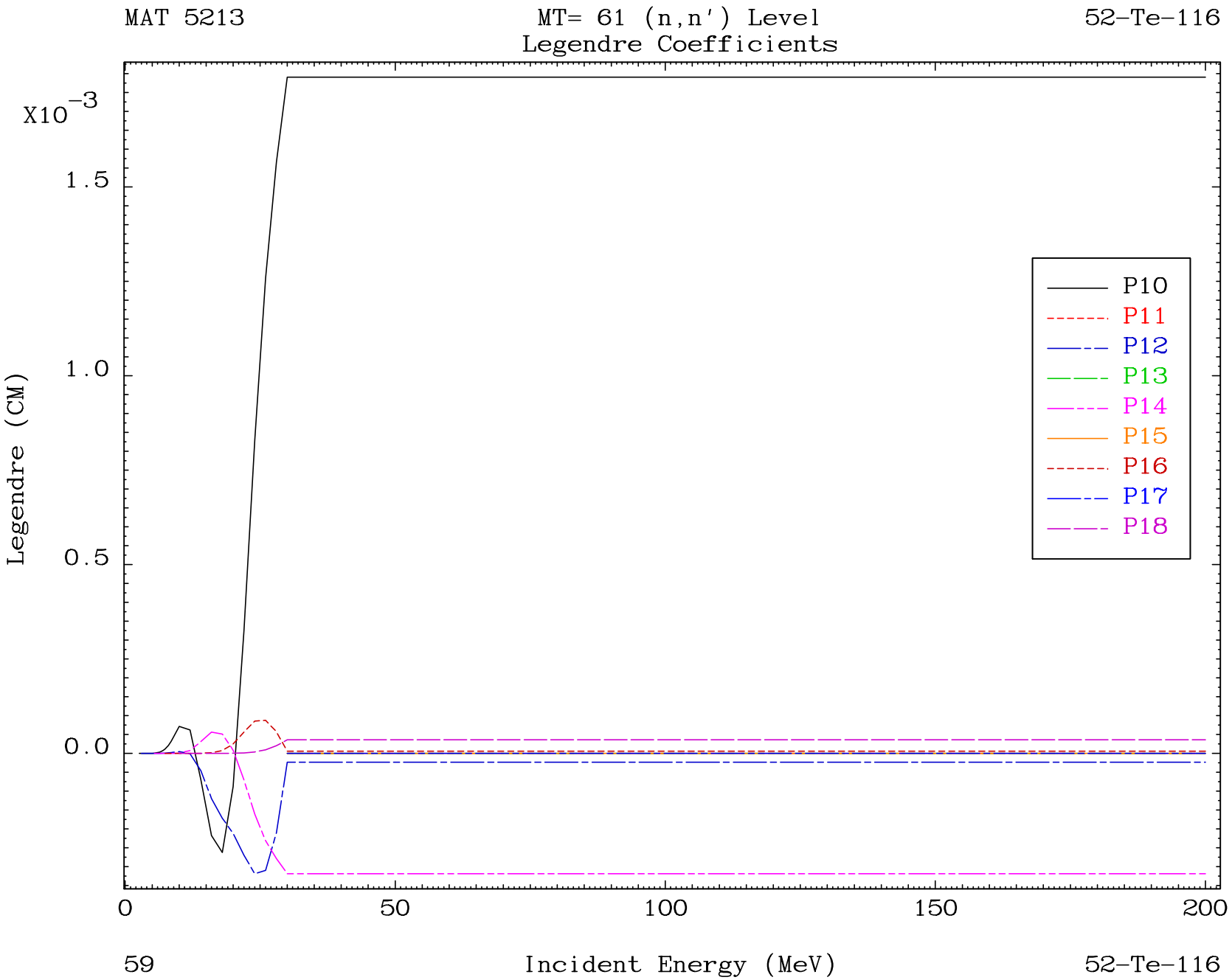

MAT 5213
MT= 60 (n,n') Level
Legendre Coefficients
52-Te-116
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
54
Incident Energy (MeV)
52-Te-116

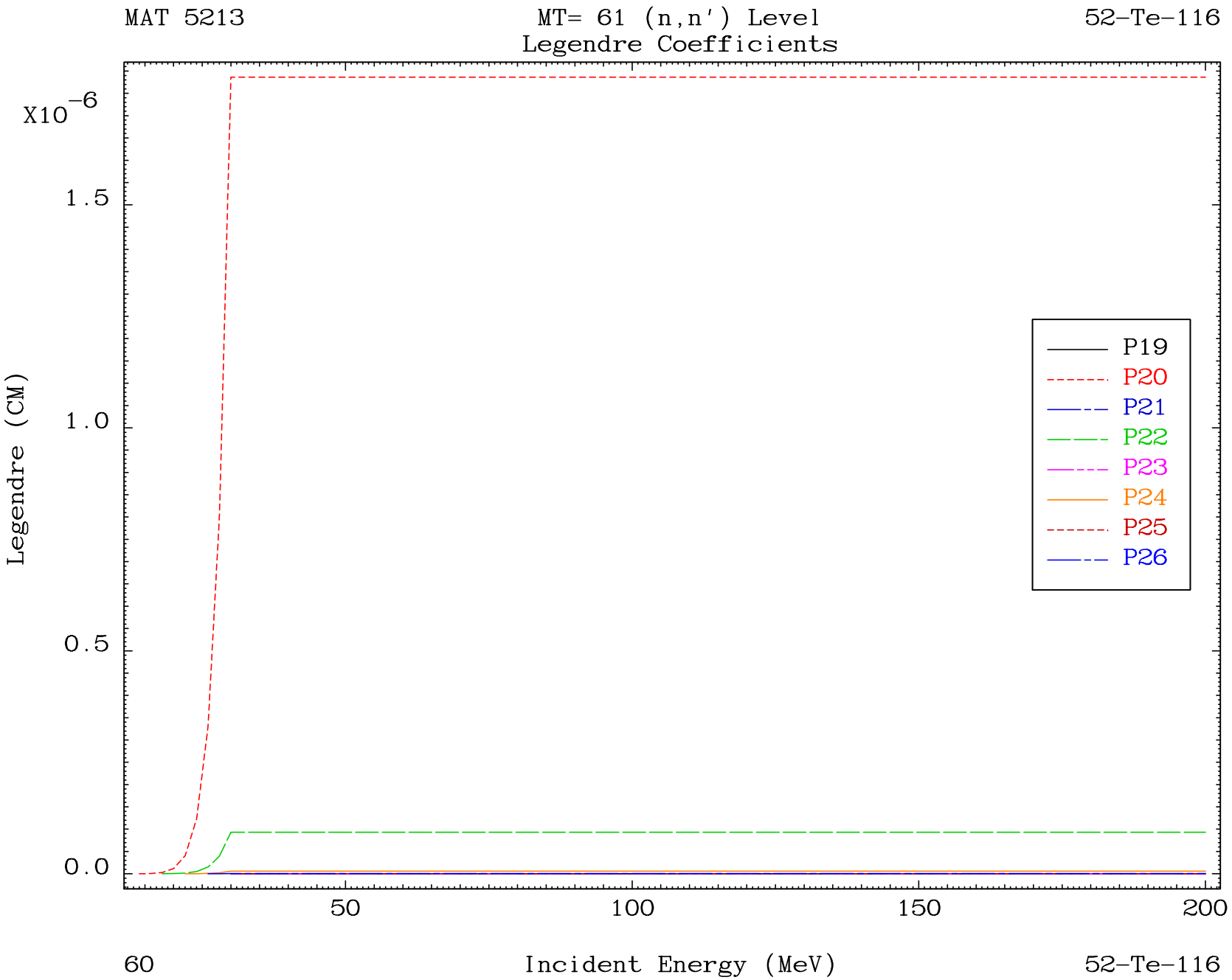

MAT 5213
MT= 60 (n,n') Level
Legendre Coefficients
52-Te-116
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.010
0.005
0.000
-0.005
Legendre (CM)
0
50
100
150
200
55
Incident Energy (MeV)
52-Te-116

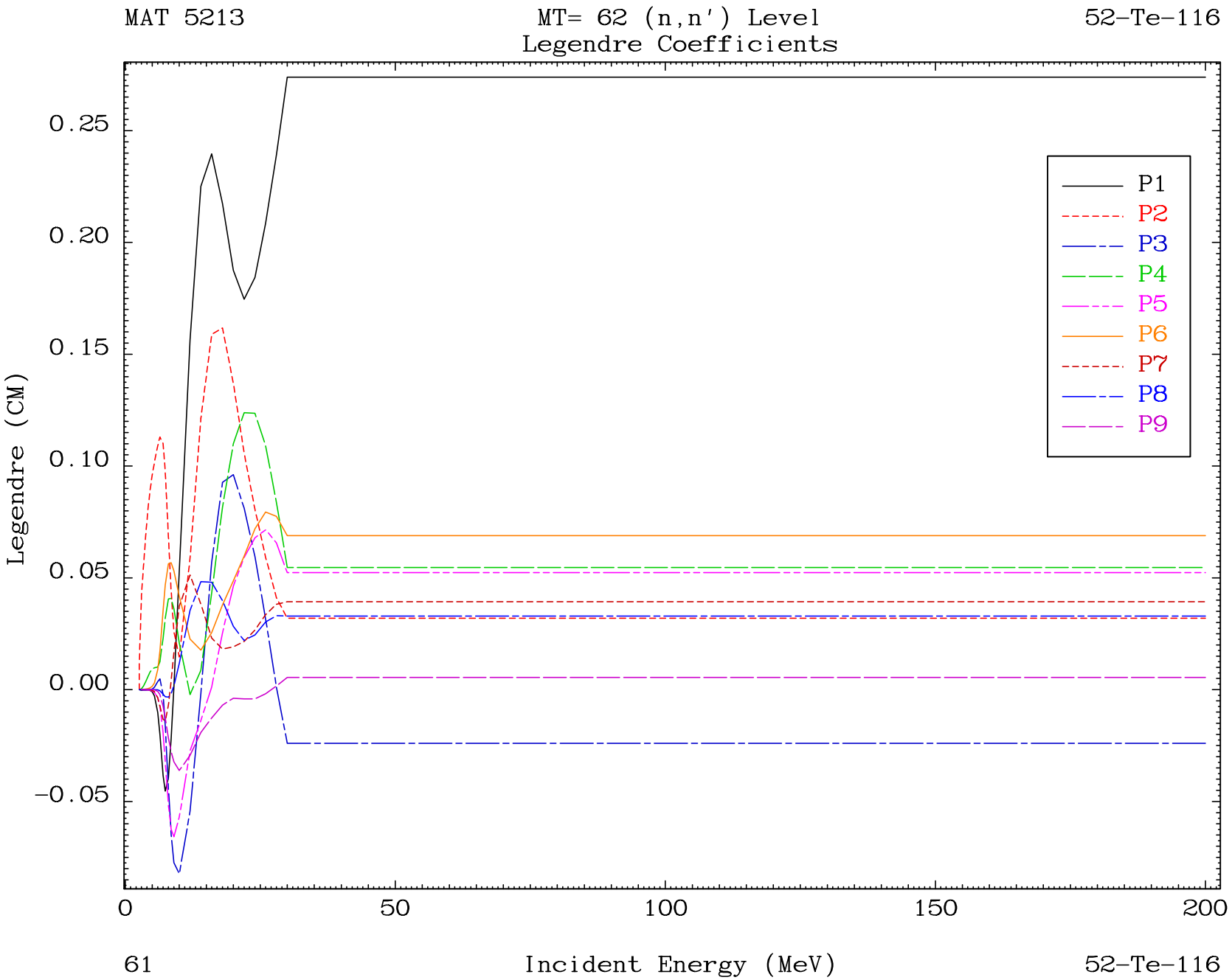

MAT 5213
MT= 60 (n,n') Level
Legendre Coefficients
52-Te-116
X10^-4
P19
P20
P21
P22
P23
P24
P25
P26
P27
Legendre (CM)
0.5
0.0
-0.5
-1.0
50
100
150
200
56
Incident Energy (MeV)
52-Te-116

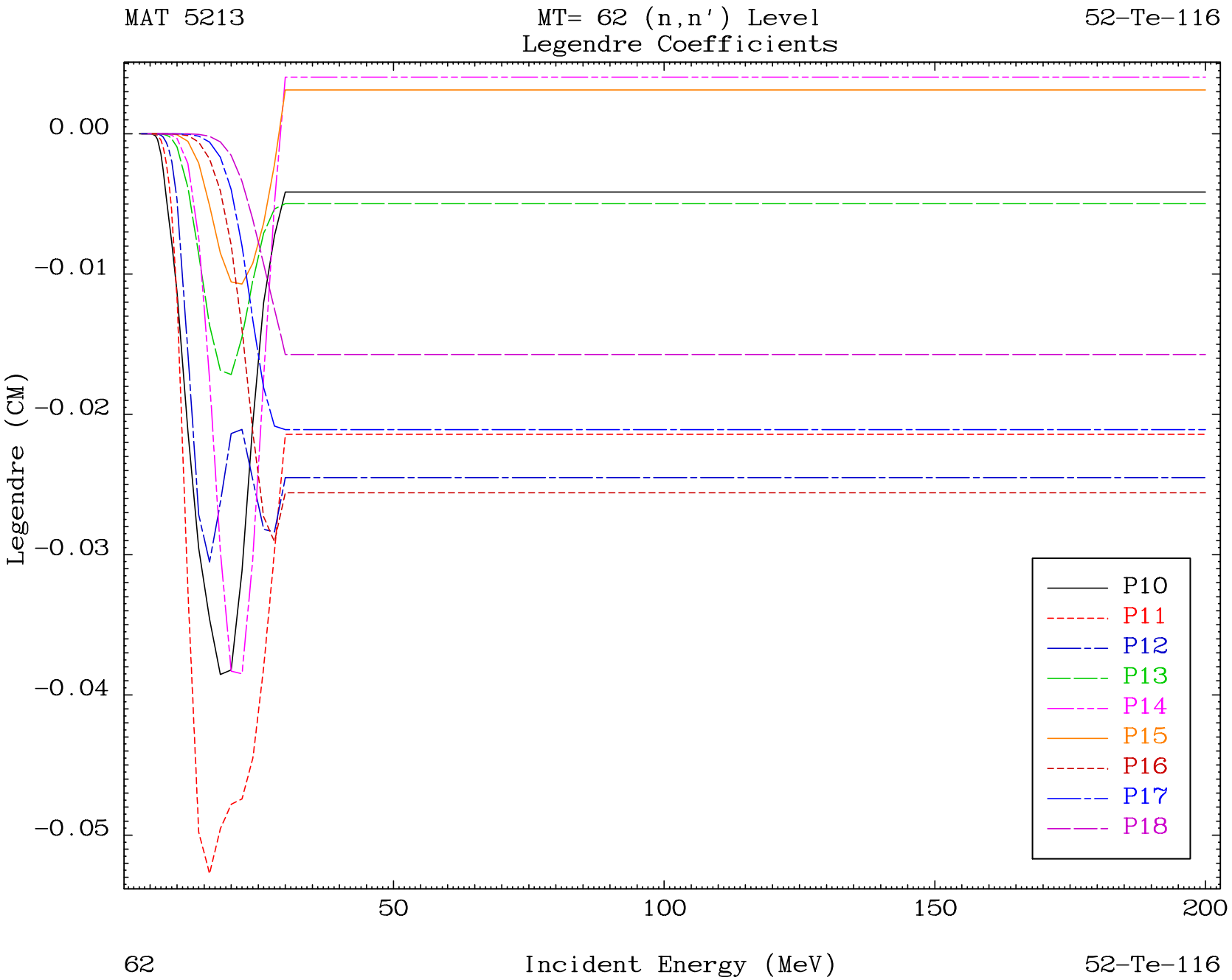

MAT 5213
MT= 60 (n,n') Level
Legendre Coefficients
52-Te-116
X10-7
0
-1
-2
-3
-4
-5
Legendre (CM)
50
100
150
200
57
Incident Energy (MeV)
52-Te-116
P28
P29
P30
P31
P32
P33
P34

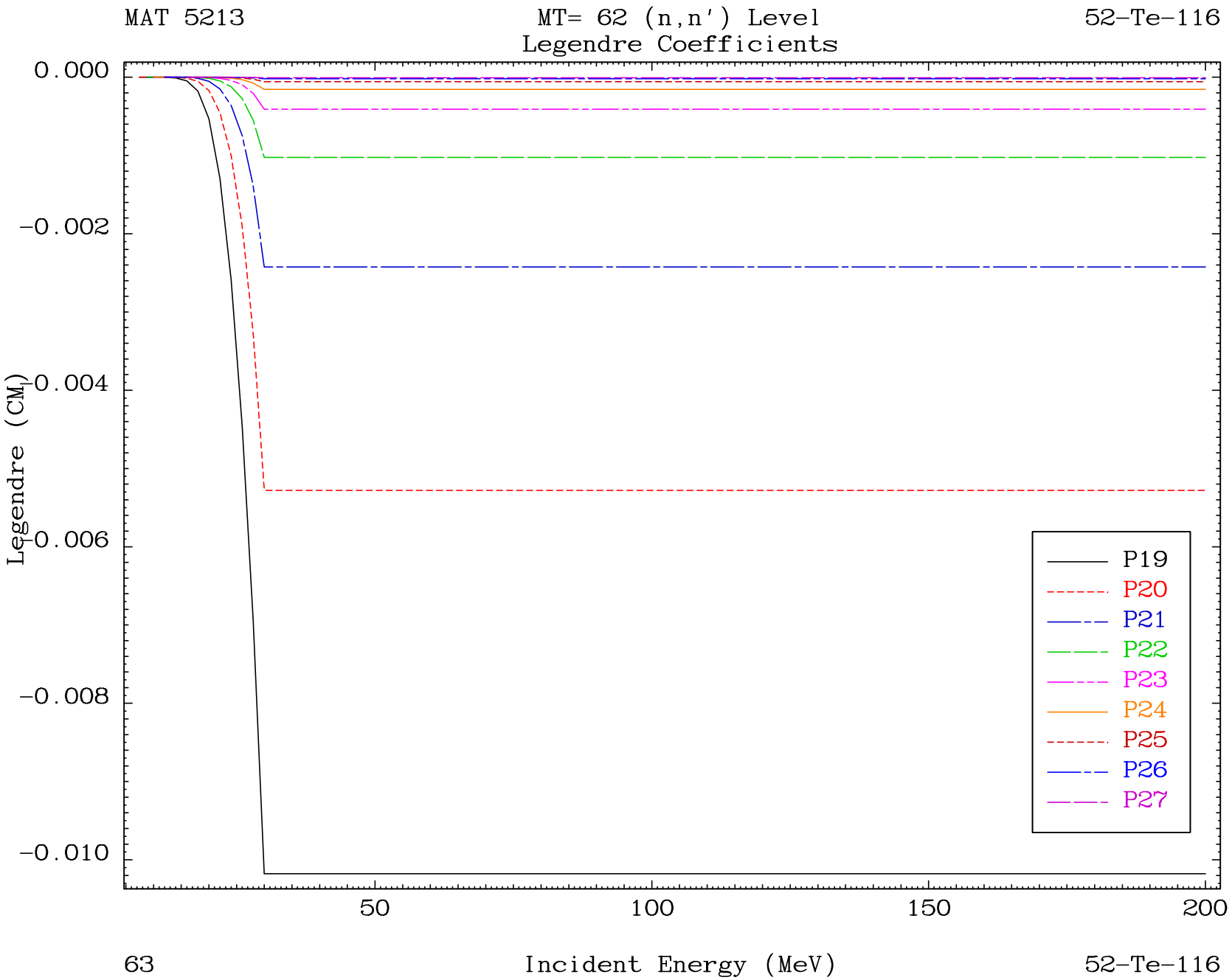

MAT 5213
MT= 61 (n,n') Level
Legendre Coefficients
52-Te-116
0.04
0.02
0.00
-0.02
-0.04
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
58
Incident Energy (MeV)
52-Te-116

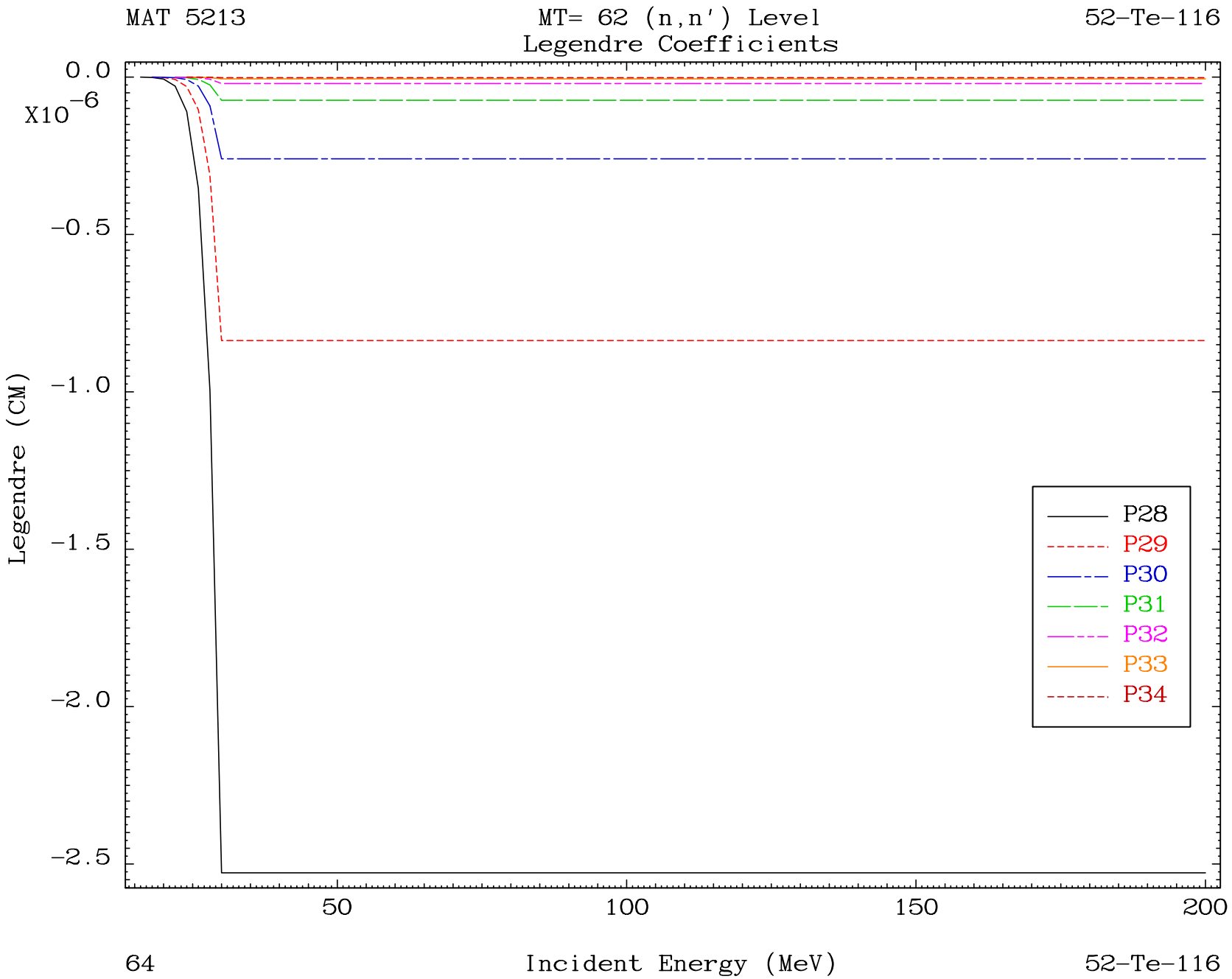

MAT 5213
MT= 61 (n,n') Level
Legendre Coefficients
52-Te-116
X10-3
1.5
1.0
0.5
0.0
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
59
Incident Energy (MeV)
52-Te-116

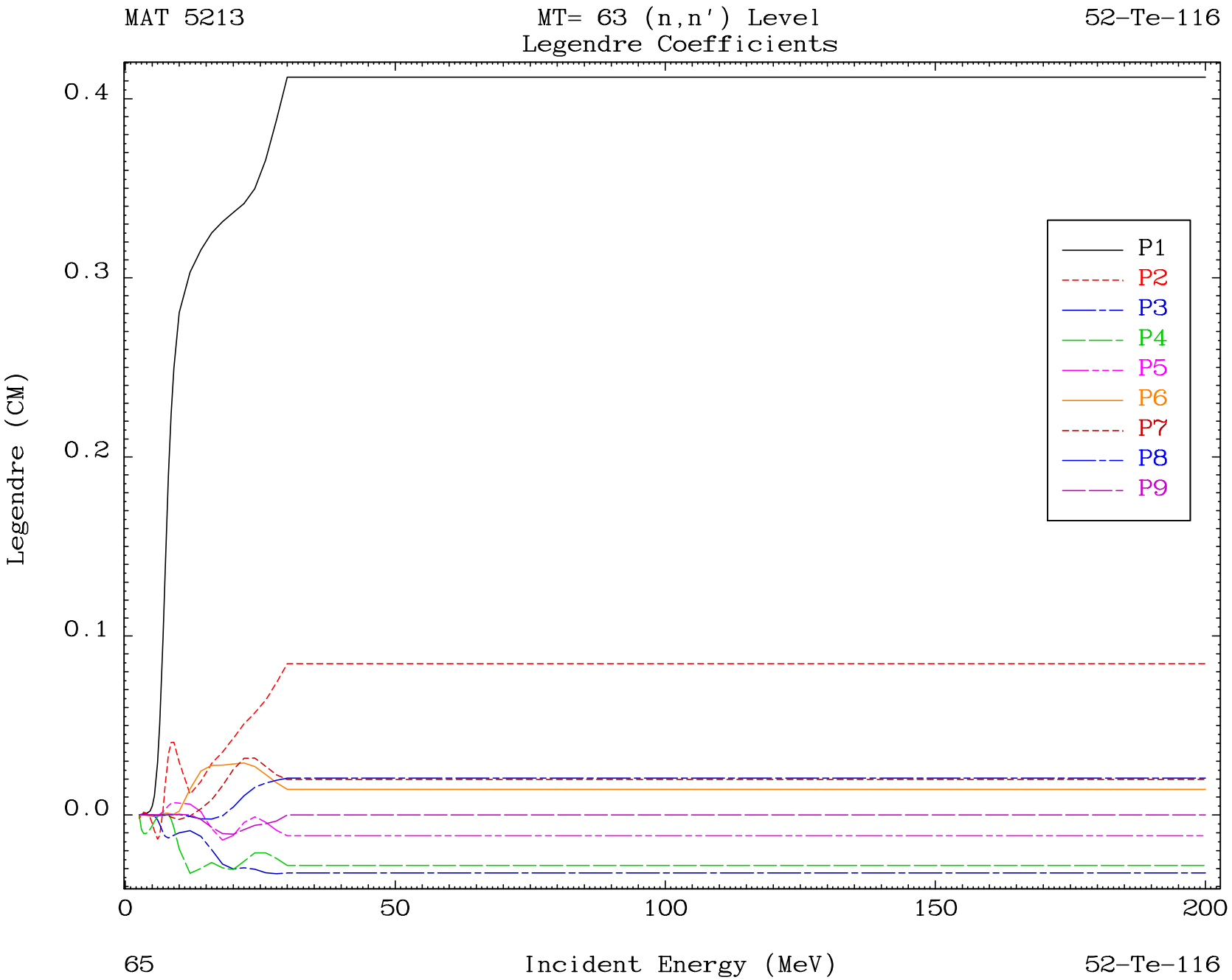

MAT 5213
MT= 61 (n,n') Level
Legendre Coefficients
52-Te-116
X10^-6
1.5
1.0
0.5
0.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
50
100
150
200
60
Incident Energy (MeV)
52-Te-116

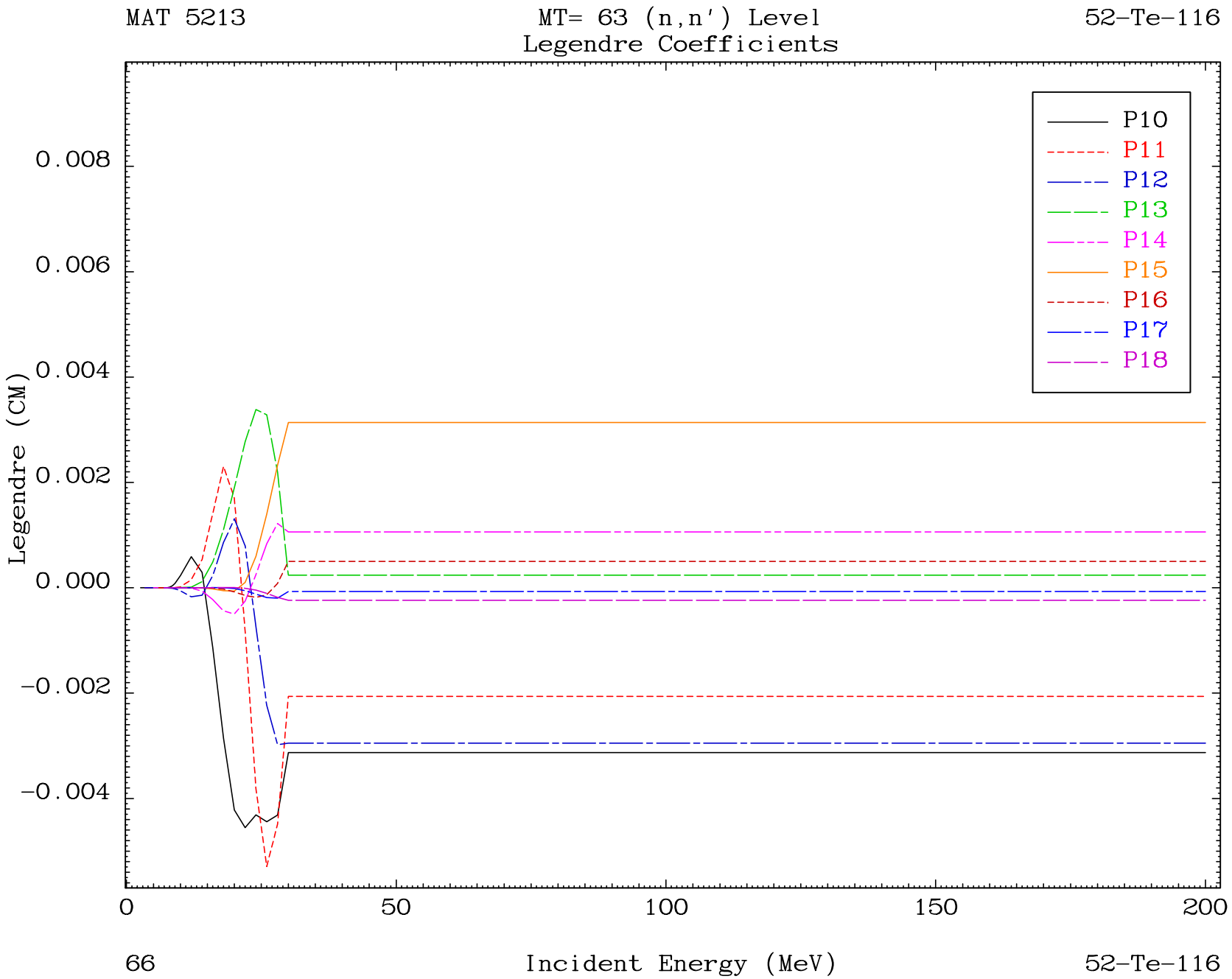

MAT 5213
MT= 62 (n,n') Level
Legendre Coefficients
52-Te-116
0.25
0.20
0.15
0.10
0.05
0.00
-0.05
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
61
Incident Energy (MeV)
52-Te-116

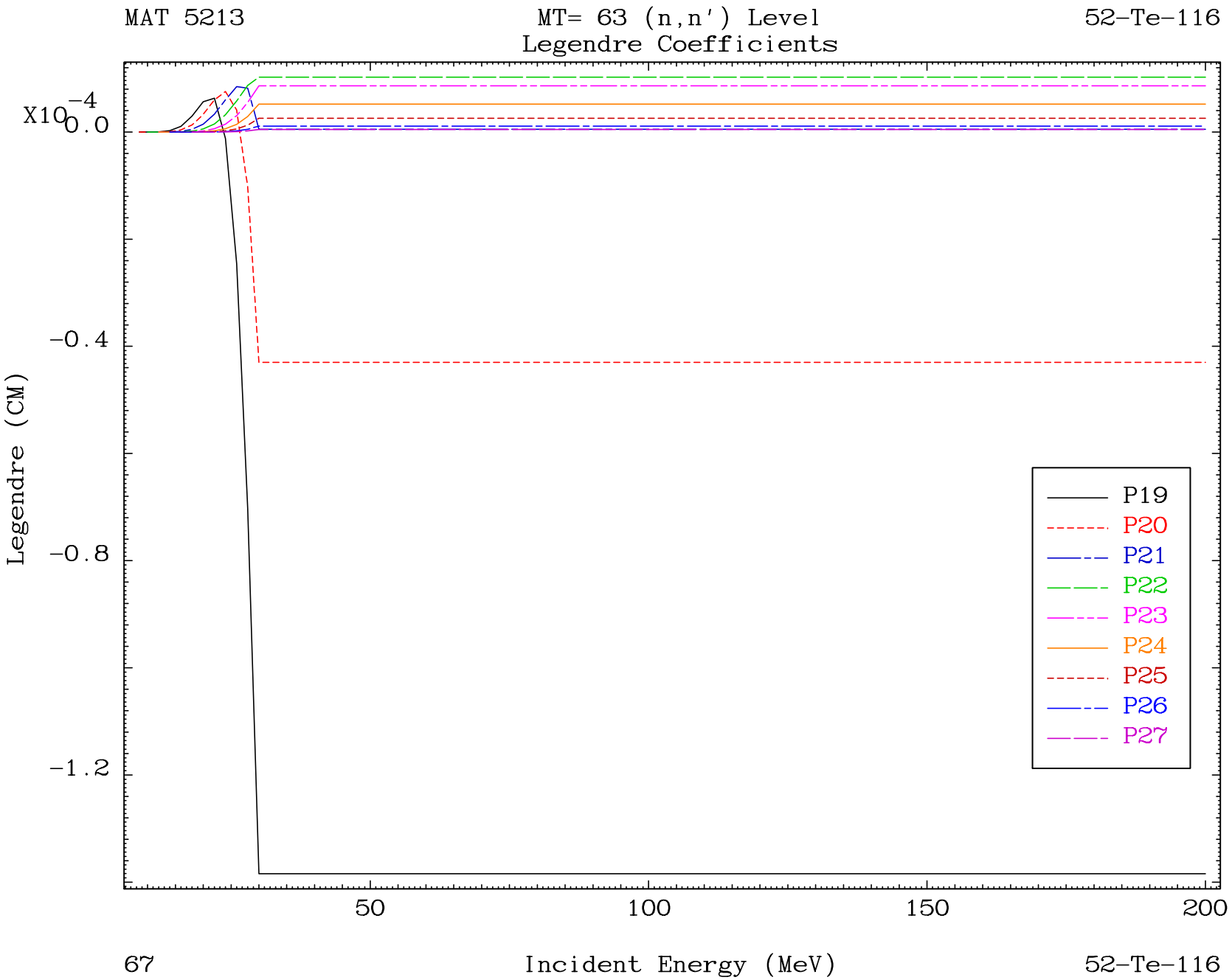

MAT 5213
MT= 62 (n,n') Level
Legendre Coefficients
52-Te-116
0.00
-0.01
-0.02
-0.03
-0.04
-0.05
Legendre (CM)
50
100
150
200
62
Incident Energy (MeV)
52-Te-116
P10
P11
P12
P13
P14
P15
P16
P17
P18

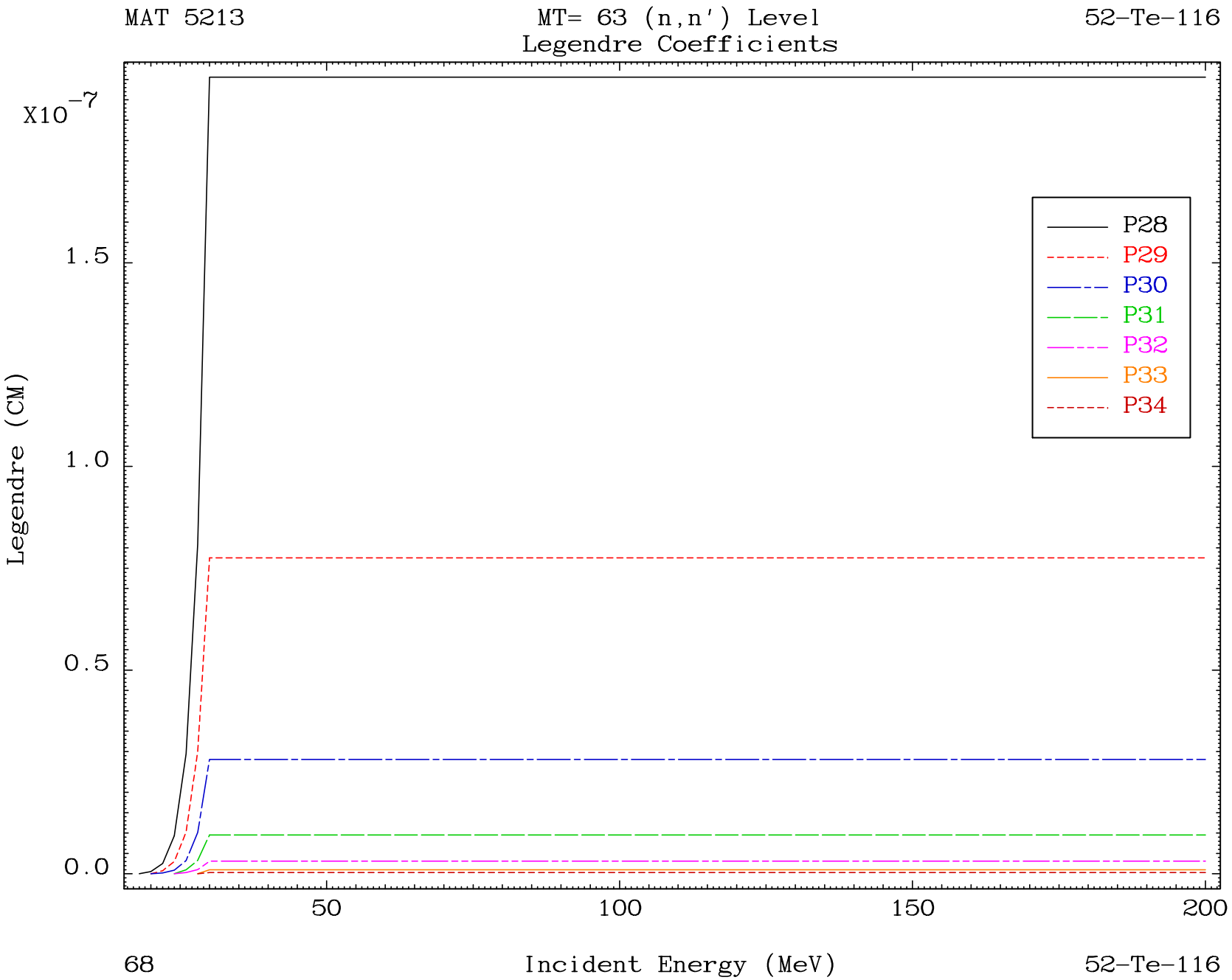

MAT 5213
MT= 62 (n,n') Level
Legendre Coefficients
52-Te-116
0.000
-0.002
-0.004
-0.006
-0.008
-0.010
Legendre (CM_l)
50
100
150
200
63
Incident Energy (MeV)
52-Te-116
P19
P20
P21
P22
P23
P24
P25
P26
P27

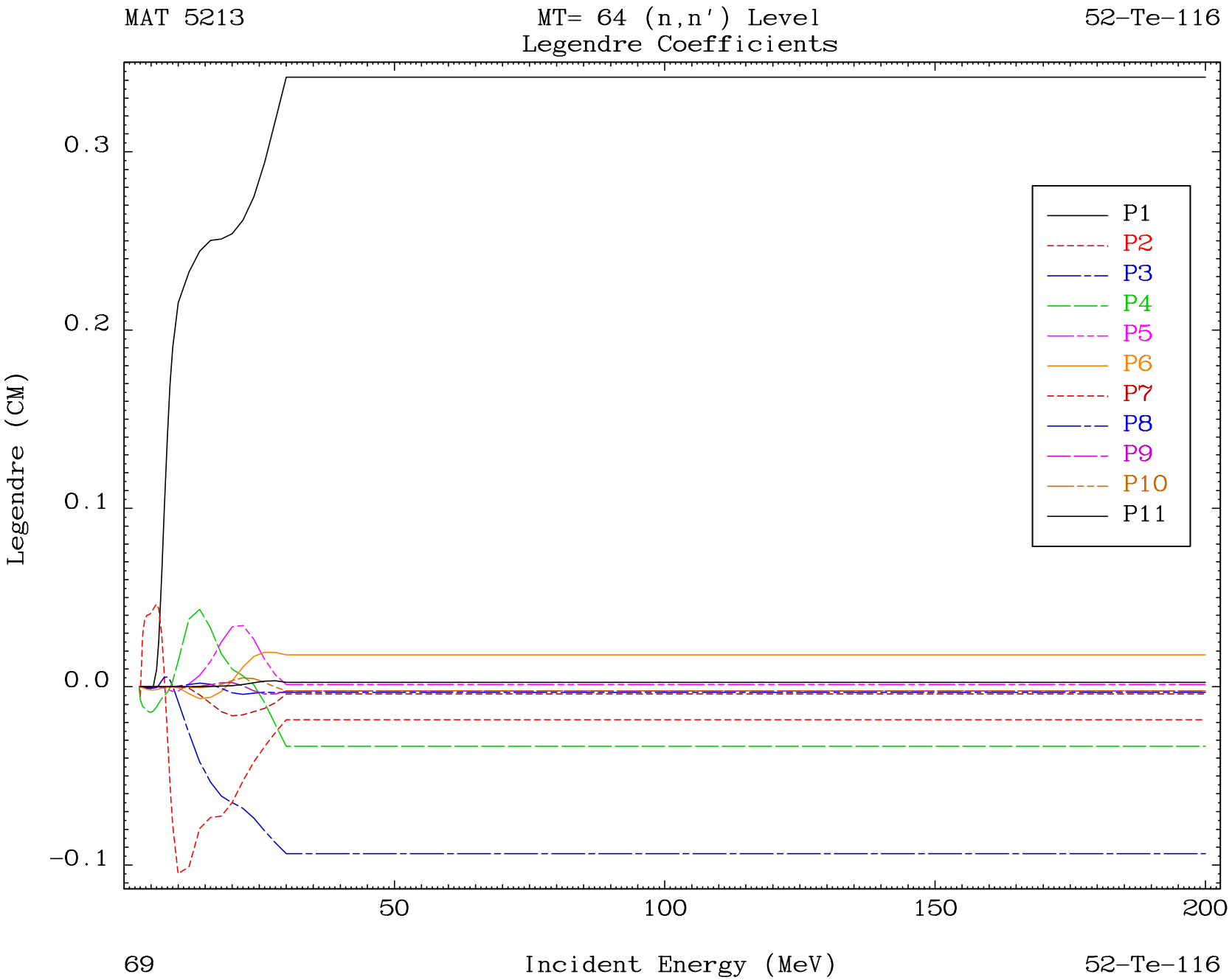

MAT 5213
MT= 62 (n,n') Level
Legendre Coefficients
52-Te-116
0.0
X10−6
−0.5
−1.0
−1.5
−2.0
−2.5
Legendre (CM)
50
100
150
200
64
Incident Energy (MeV)
52-Te-116
P28
P29
P30
P31
P32
P33
P34

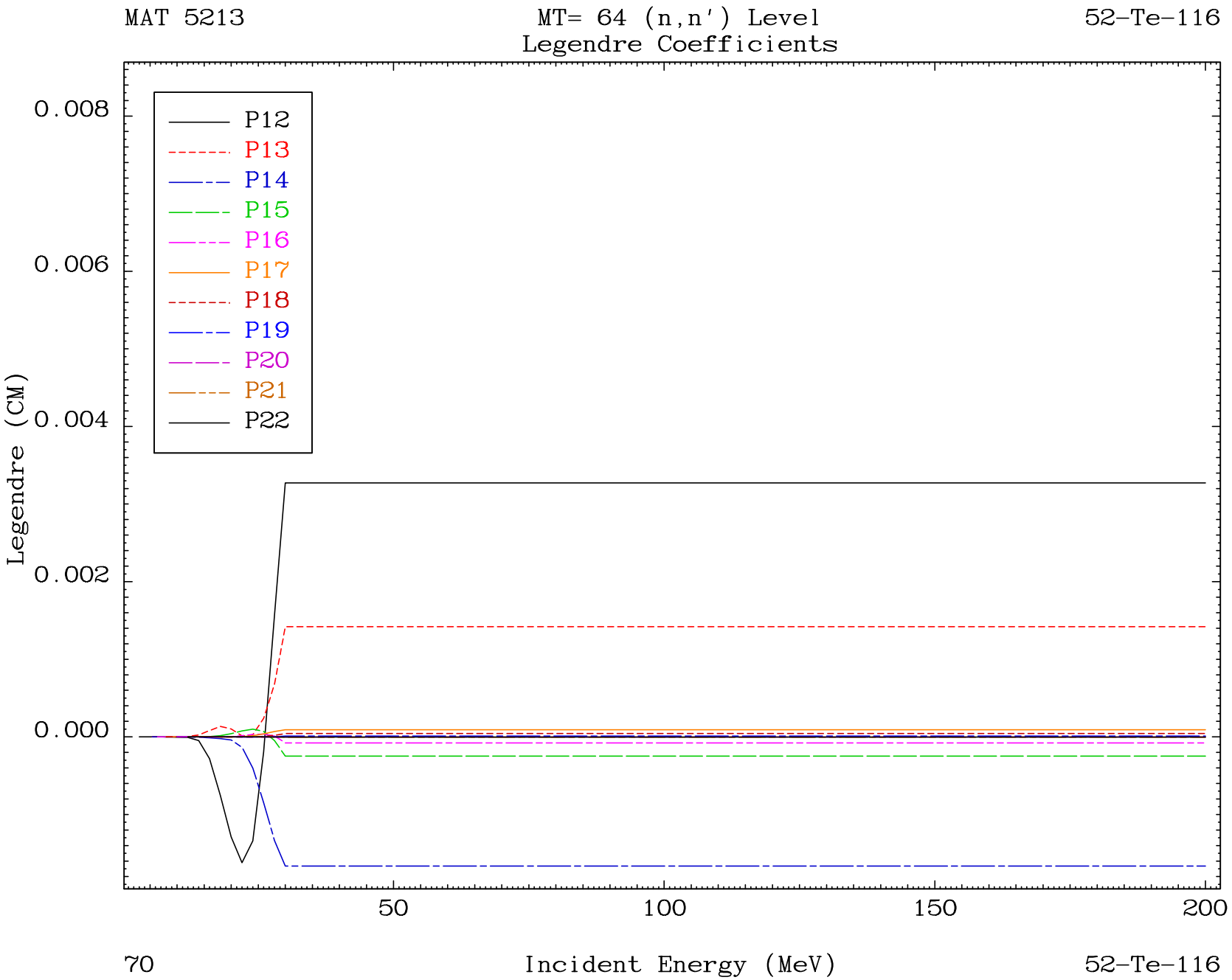

MAT 5213
MT= 63 (n,n') Level
Legendre Coefficients
52-Te-116
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
65
Incident Energy (MeV)
52-Te-116

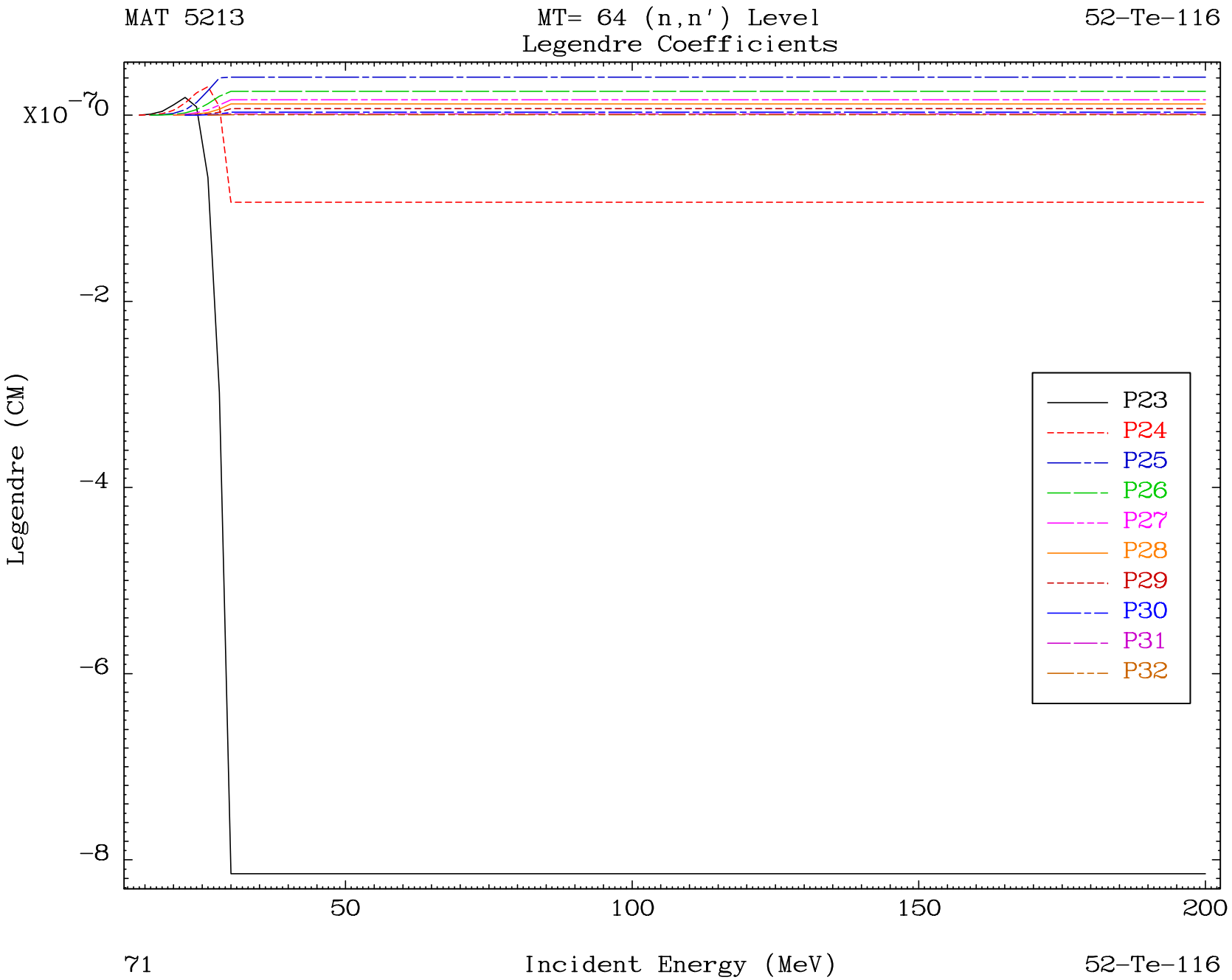

MAT 5213
MT= 63 (n,n') Level
Legendre Coefficients
52-Te-116
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.008
0.006
0.004
0.002
0.000
-0.002
-0.004
Legendre (CM)
0
50
100
150
200
66
Incident Energy (MeV)
52-Te-116

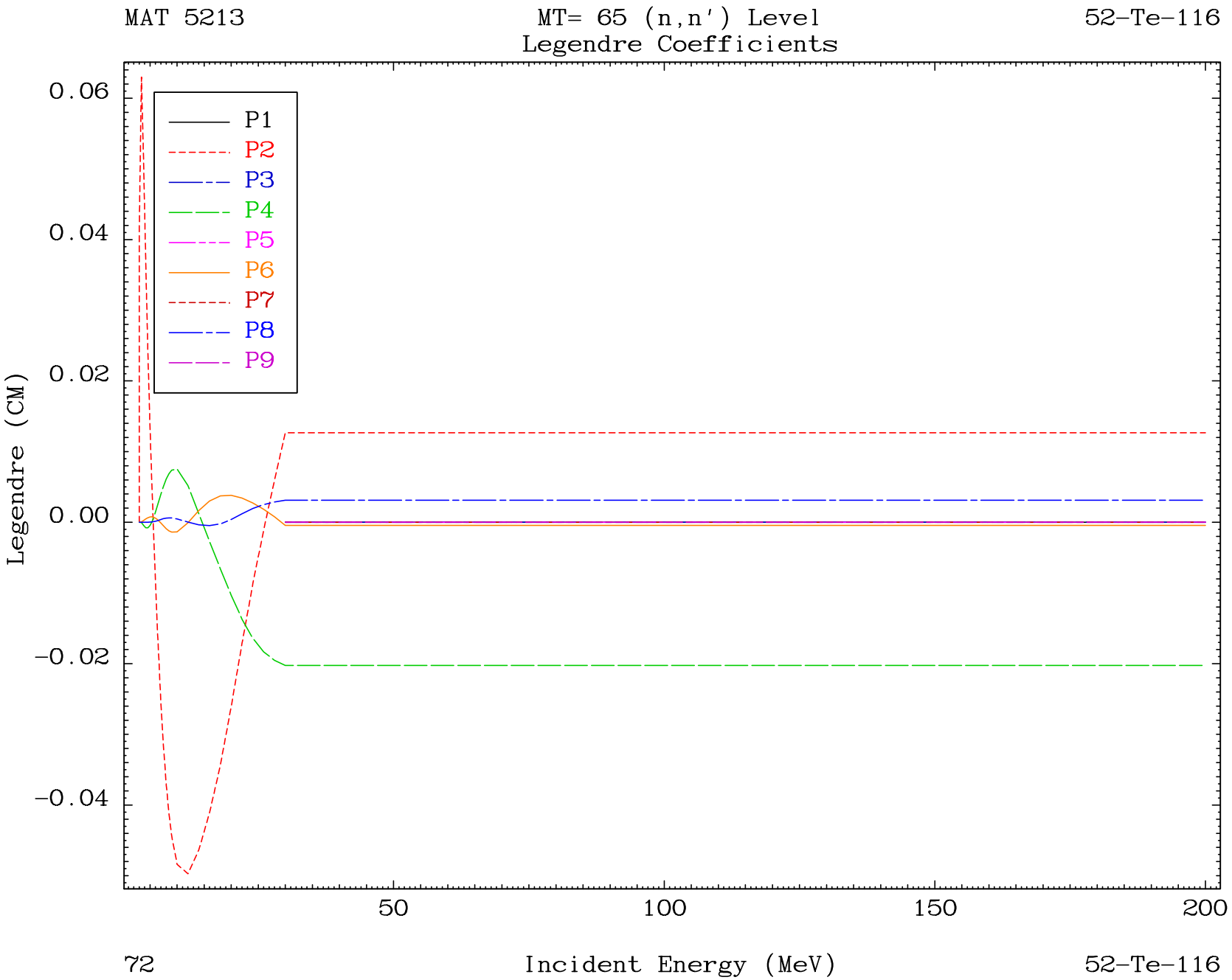

MAT 5213
MT= 63 (n,n') Level
Legendre Coefficients
52-Te-116
X10^-4
0.0
-0.4
-0.8
-1.2
Legendre (CM)
50
100
150
200
67
Incident Energy (MeV)
52-Te-116
P19
P20
P21
P22
P23
P24
P25
P26
P27

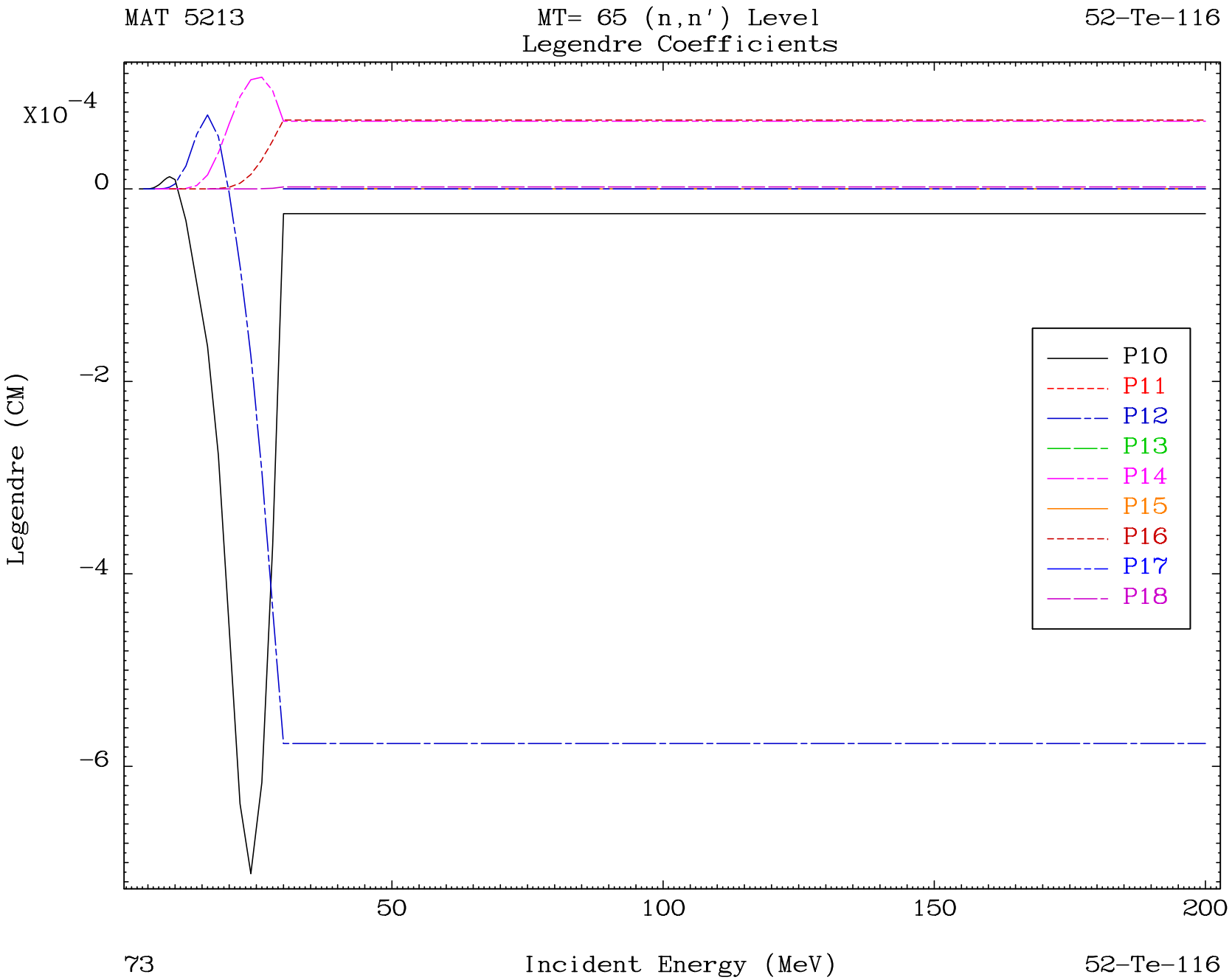

MAT 5213
MT= 63 (n,n') Level
Legendre Coefficients
52-Te-116
X10-7
1.5
1.0
0.5
0.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
68
Incident Energy (MeV)
52-Te-116

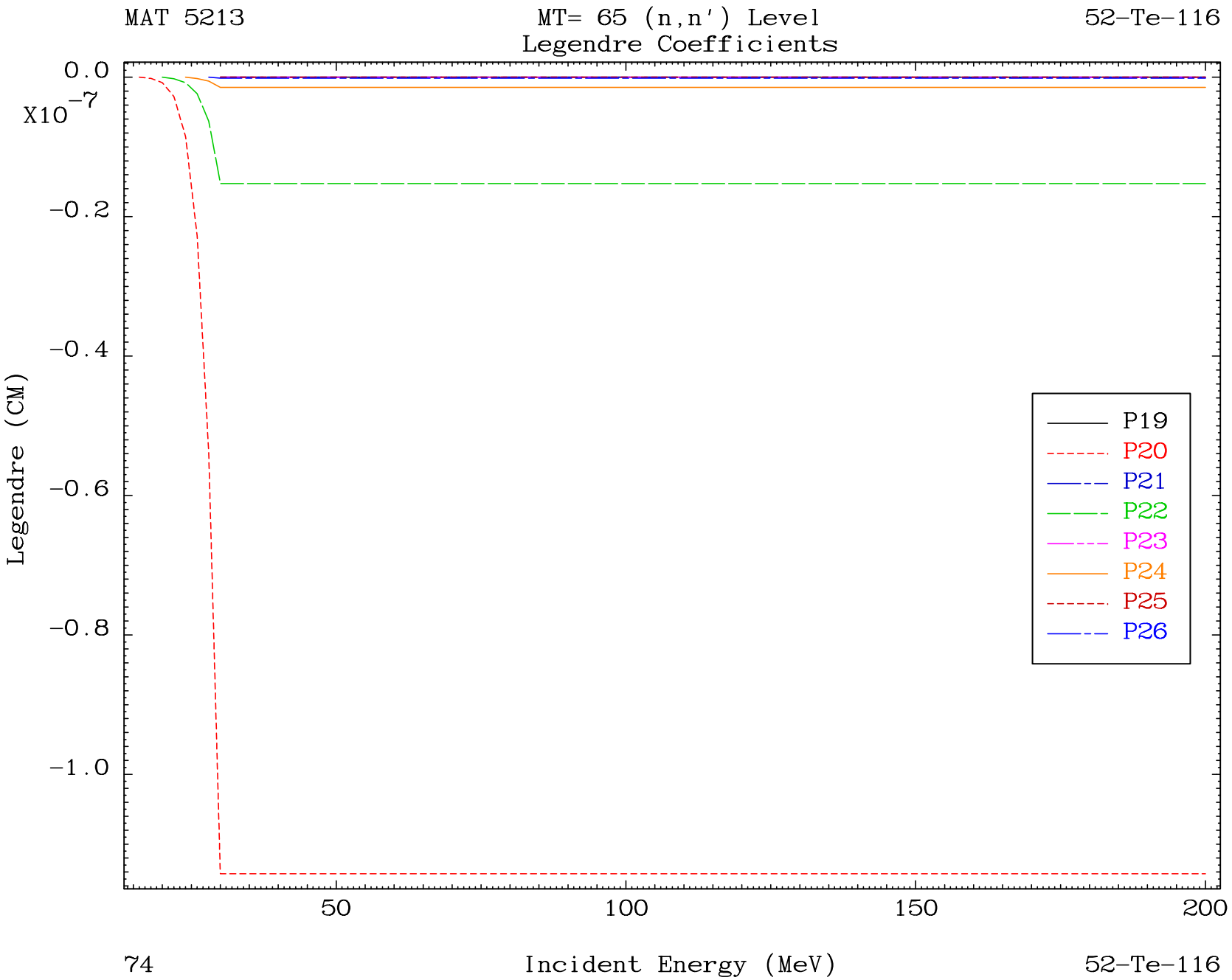

MAT 5213
MT= 64 (n,n') Level
Legendre Coefficients
52-Te-116
0.3
0.2
0.1
0.0
-0.1
Legendre (CM)
50
100
150
200
69
Incident Energy (MeV)
52-Te-116
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11

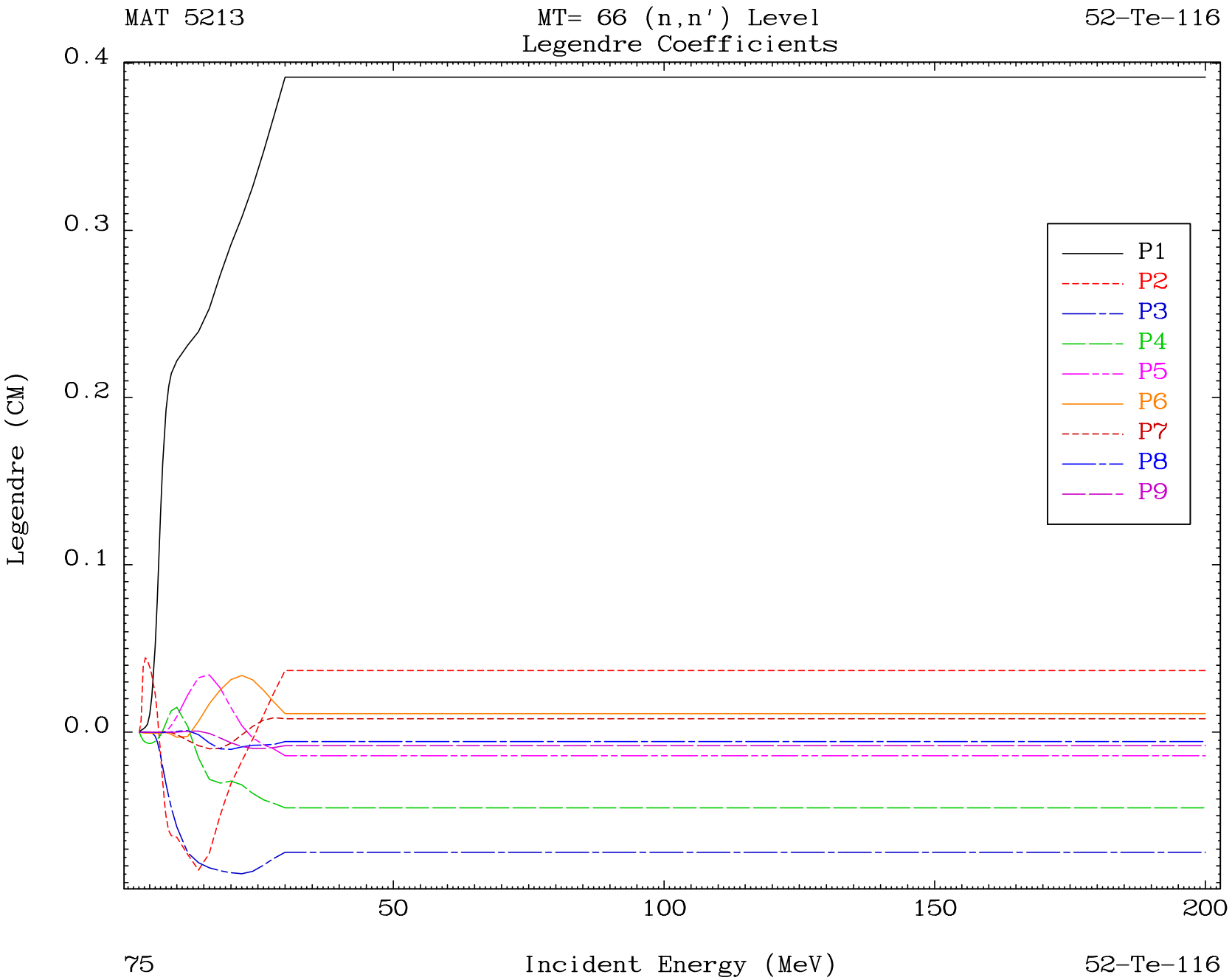

MAT 5213
MT= 64 (n,n') Level
Legendre Coefficients
52-Te-116
P12
P13
P14
P15
P16
P17
P18
P19
P20
P21
P22
0.008
0.006
0.004
0.002
0.000
Legendre (CM)
50
100
150
200
70
Incident Energy (MeV)
52-Te-116

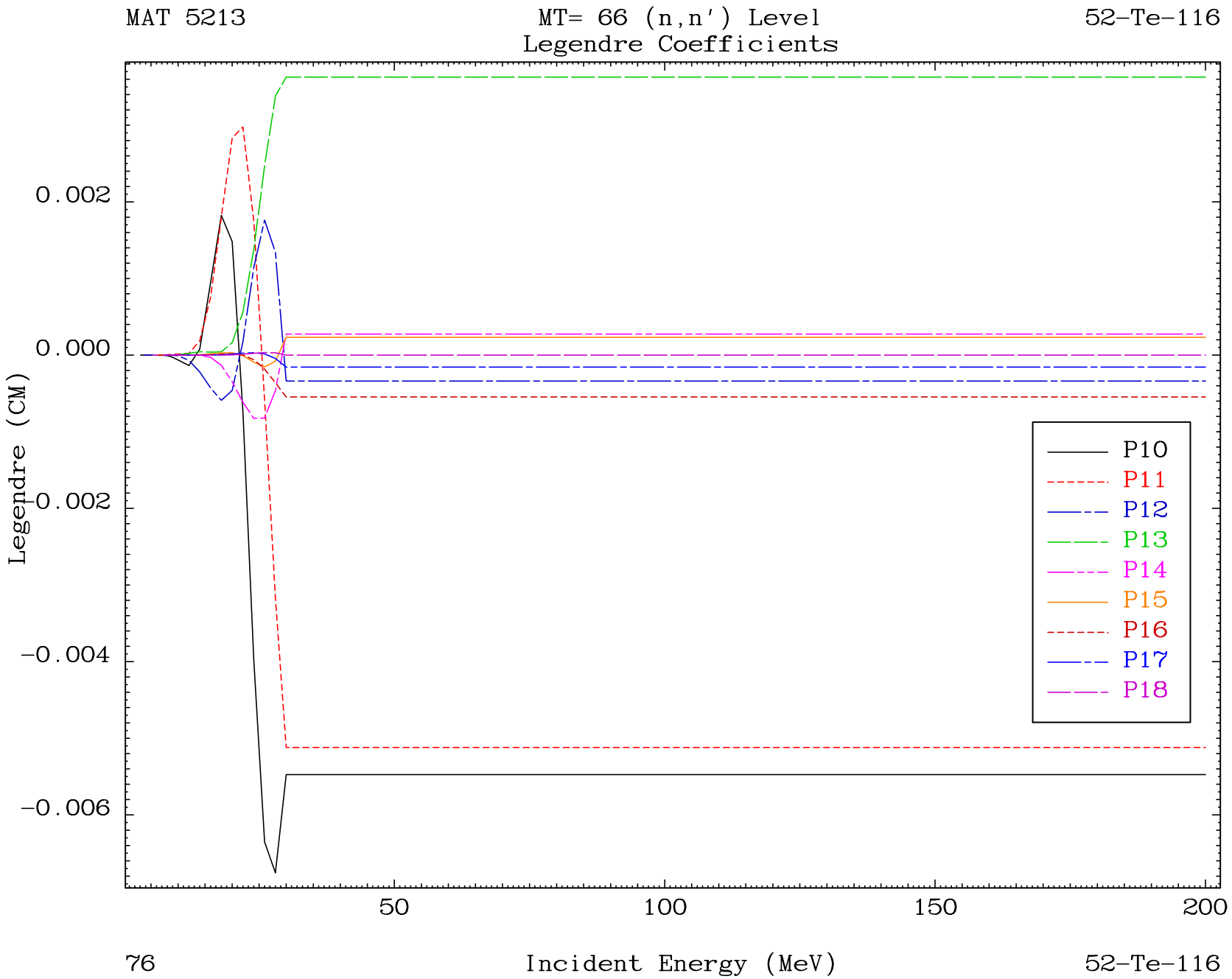

MAT 5213
MT= 64 (n,n') Level
Legendre Coefficients
52-Te-116
X10^-7
0
-2
-4
-6
-8
Legendre (CM)
50
100
150
200
71
Incident Energy (MeV)
52-Te-116
P23
P24
P25
P26
P27
P28
P29
P30
P31
P32

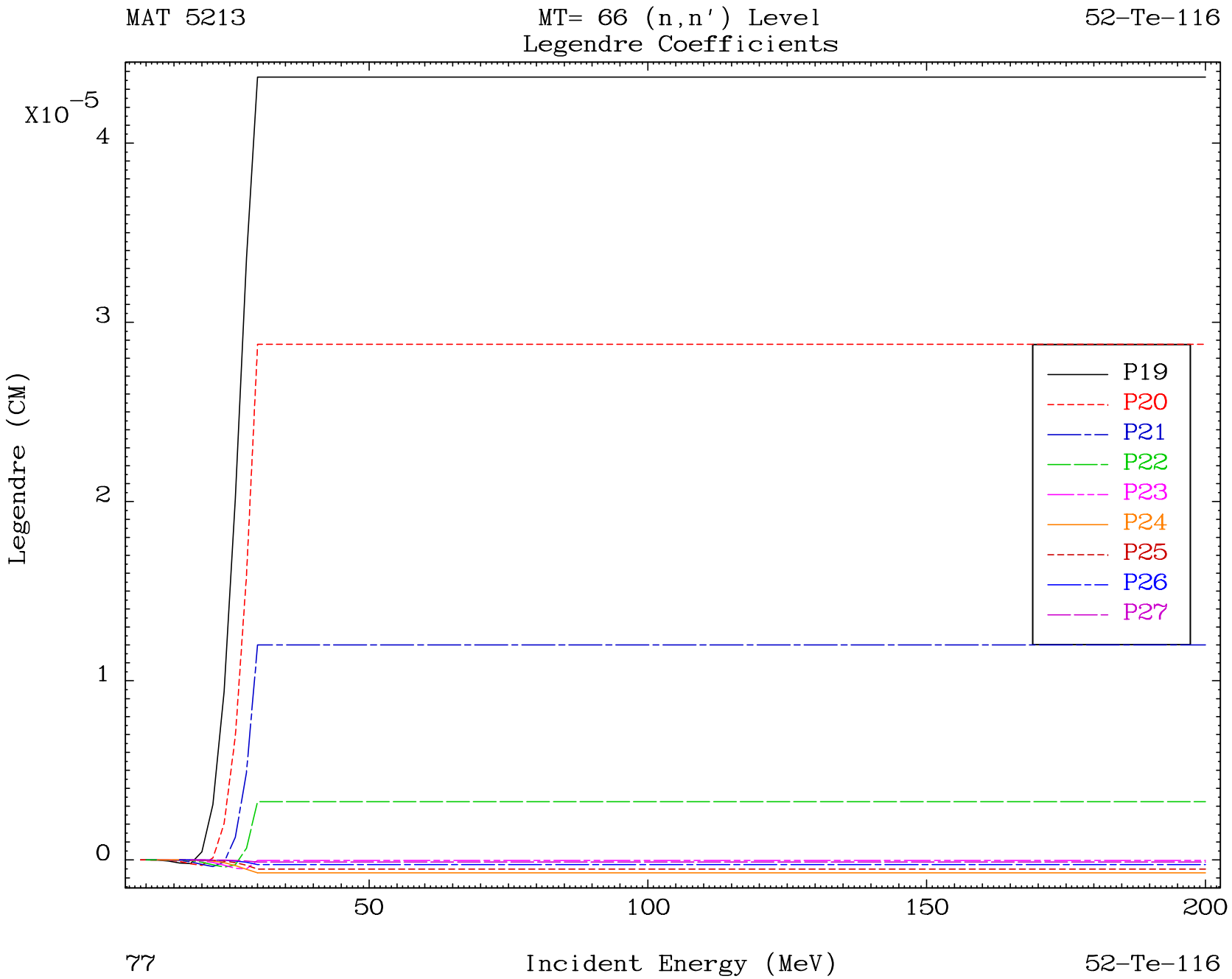

MAT 5213
MT= 65 (n,n') Level
Legendre Coefficients
52-Te-116
P1
P2
P3
P4
P5
P6
P7
P8
P9
0.06
0.04
0.02
0.00
-0.02
-0.04
Legendre (CM)
50
100
150
200
72
Incident Energy (MeV)
52-Te-116

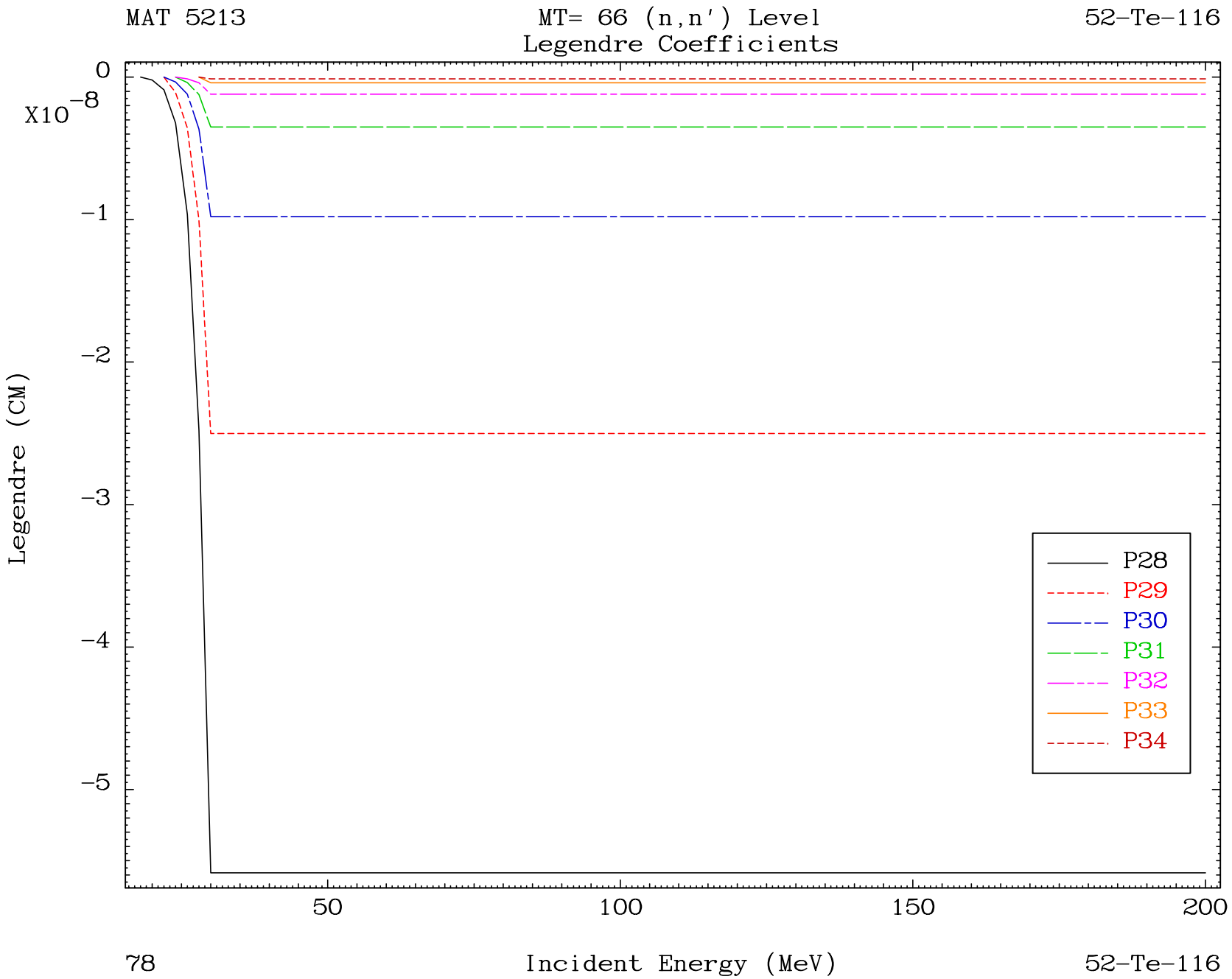

MAT 5213
MT= 65 (n,n') Level
Legendre Coefficients
52-Te-116
X10^-4
0
-2
-4
-6
Legendre (CM)
50
100
150
200
73
Incident Energy (MeV)
52-Te-116
P10
P11
P12
P13
P14
P15
P16
P17
P18

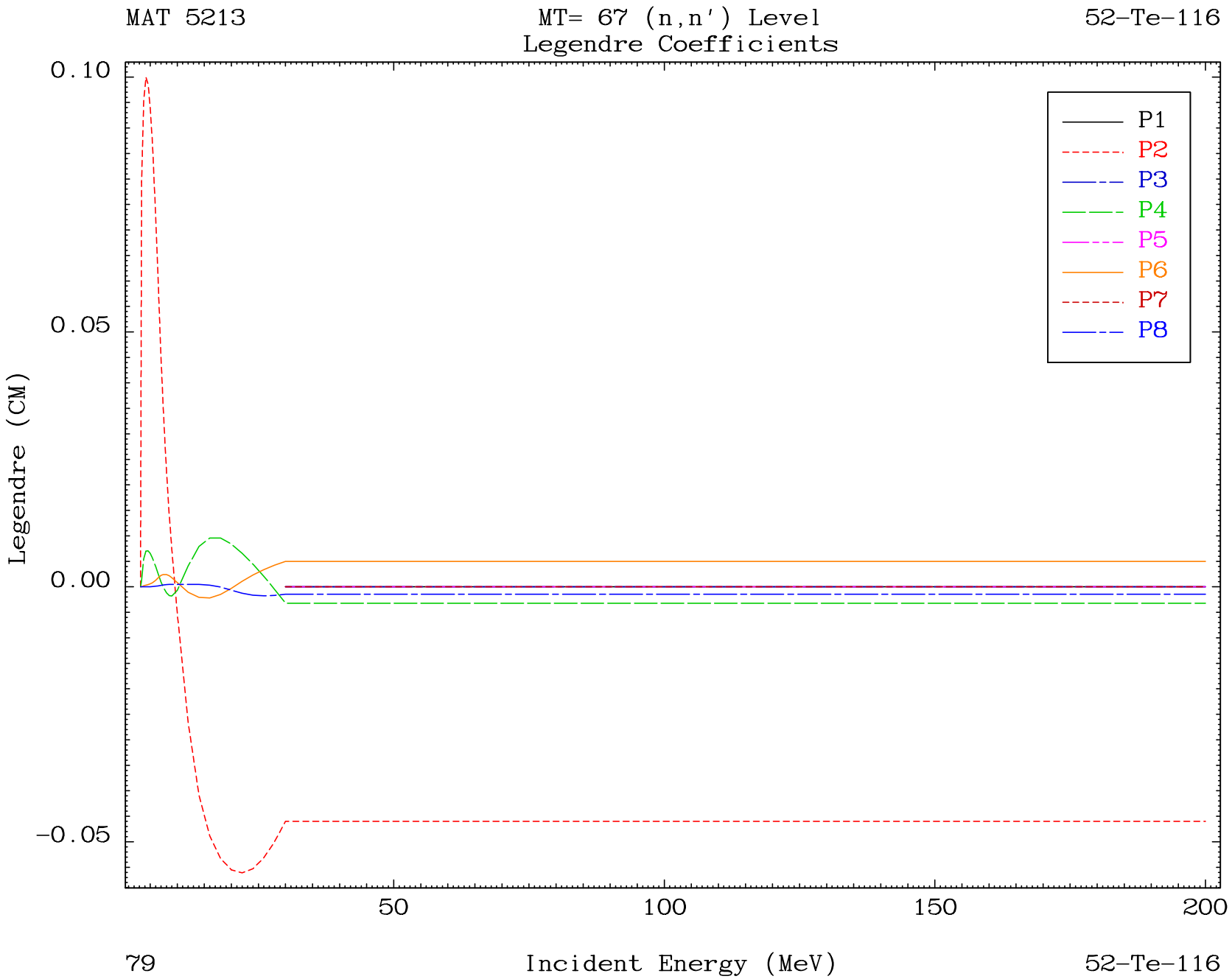

MAT 5213
MT= 65 (n,n') Level
Legendre Coefficients
52-Te-116
0.0
X10-7
-0.2
-0.4
-0.6
-0.8
-1.0
Legendre (CM)
50
100
150
200
P19
P20
P21
P22
P23
P24
P25
P26
74
Incident Energy (MeV)
52-Te-116

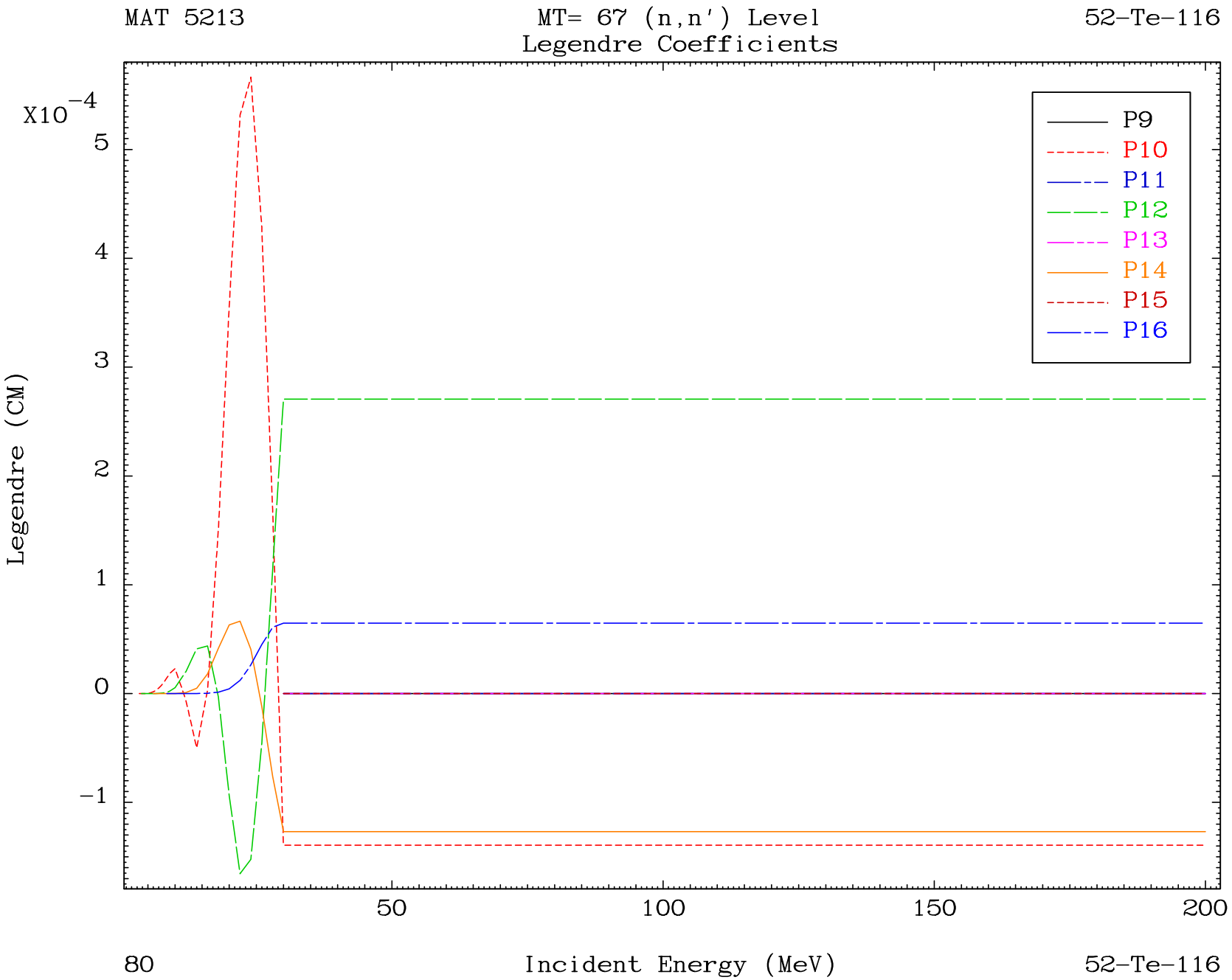

MAT 5213
MT= 66 (n,n') Level
Legendre Coefficients
52-Te-116
0.4
0.3
0.2
0.1
0.0
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
50
100
150
200
75
Incident Energy (MeV)
52-Te-116

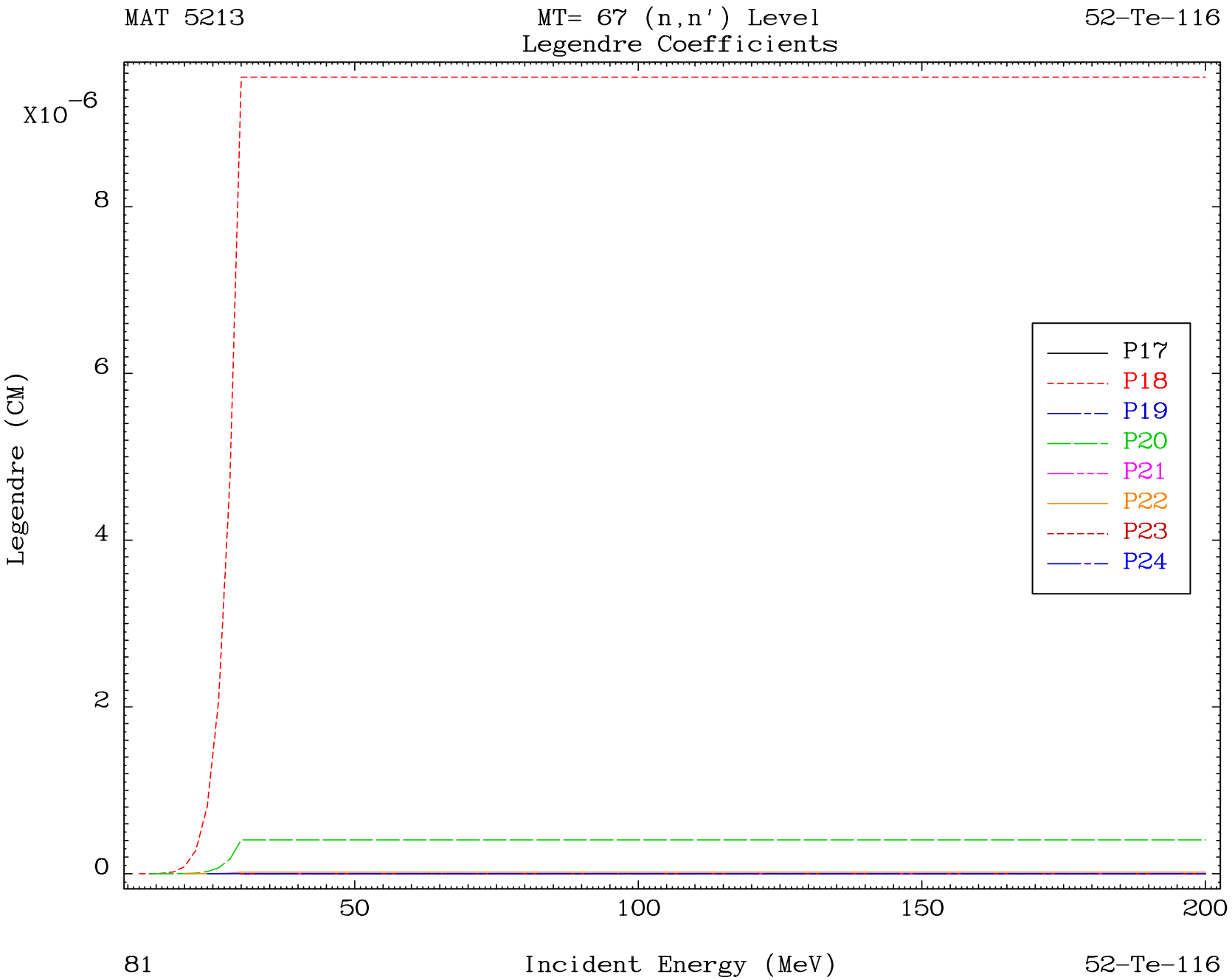

MAT 5213
MT= 66 (n,n') Level
Legendre Coefficients
52-Te-116
0.002
0.000
-0.002
-0.004
-0.006
Legendre (CM)
50
100
150
200
P10
P11
P12
P13
P14
P15
P16
P17
P18
76
Incident Energy (MeV)
52-Te-116

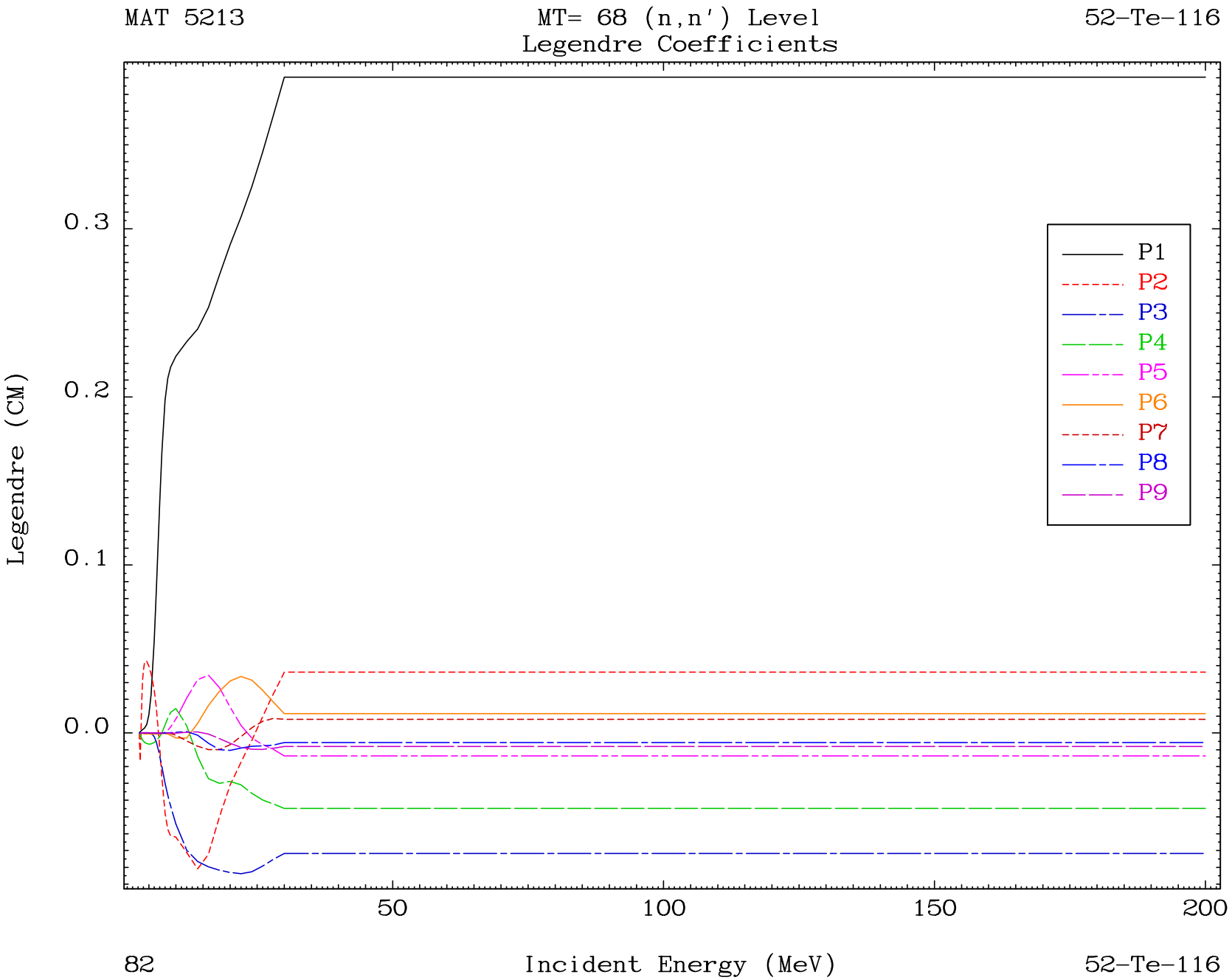

MAT 5213
MT= 66 (n,n') Level
Legendre Coefficients
52-Te-116
X10 −5
4
3
2
1
0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
77
Incident Energy (MeV)
52-Te-116

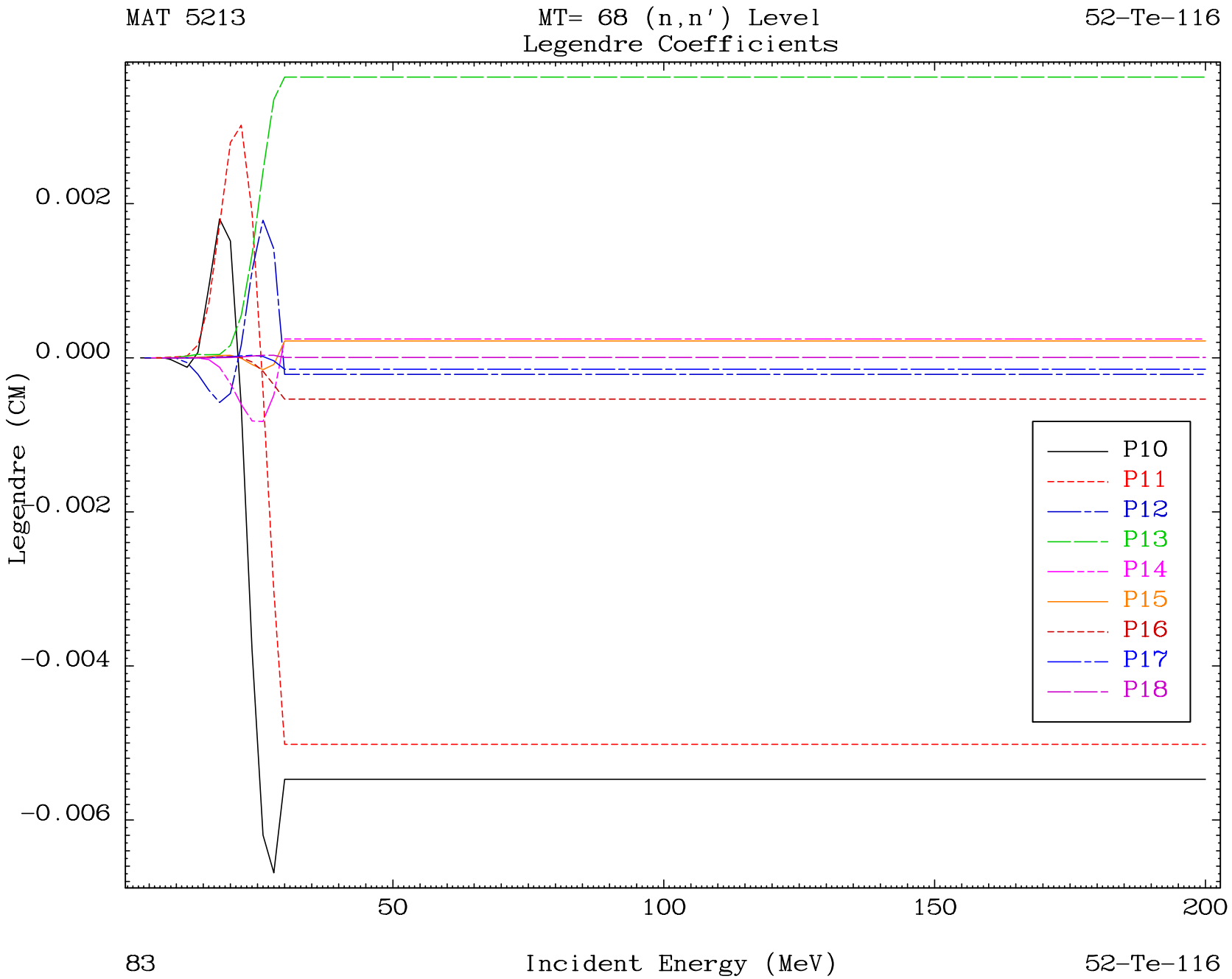

MAT 5213
MT= 66 (n,n') Level
Legendre Coefficients
52-Te-116
0
X10 −8
−1
−2
−3
−4
−5
Legendre (CM)
50
100
150
200
78
Incident Energy (MeV)
52-Te-116
P28
P29
P30
P31
P32
P33
P34

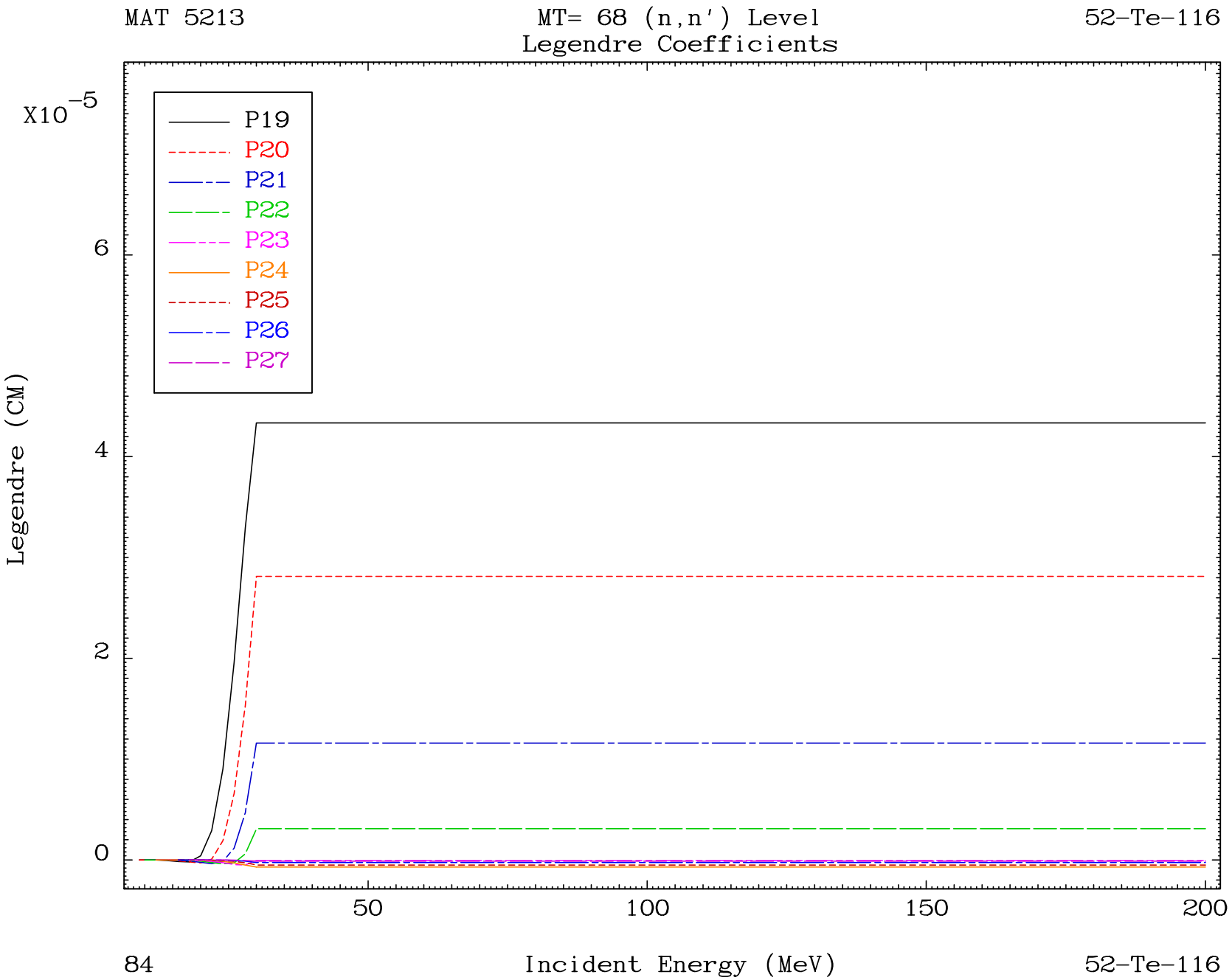

MAT 5213
MT= 67 (n,n') Level
Legendre Coefficients
52-Te-116
0.10
0.05
0.00
-0.05
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
50
100
150
200
79
Incident Energy (MeV)
52-Te-116

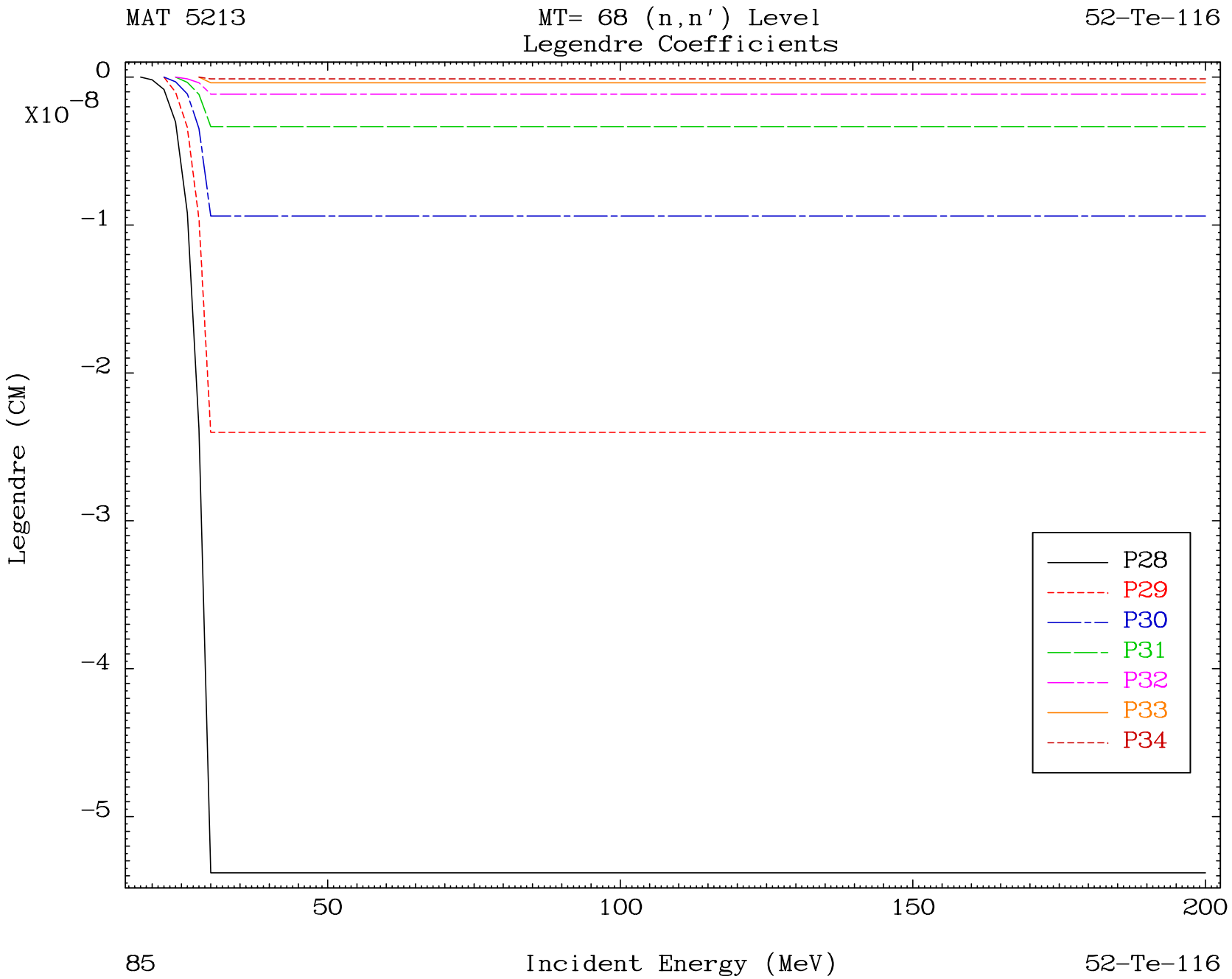

MAT 5213
MT= 67 (n,n') Level
Legendre Coefficients
52-Te-116
X10^-4
5
4
3
2
1
0
-1
Legendre (CM)
P9
P10
P11
P12
P13
P14
P15
P16
50
100
150
200
80
Incident Energy (MeV)
52-Te-116

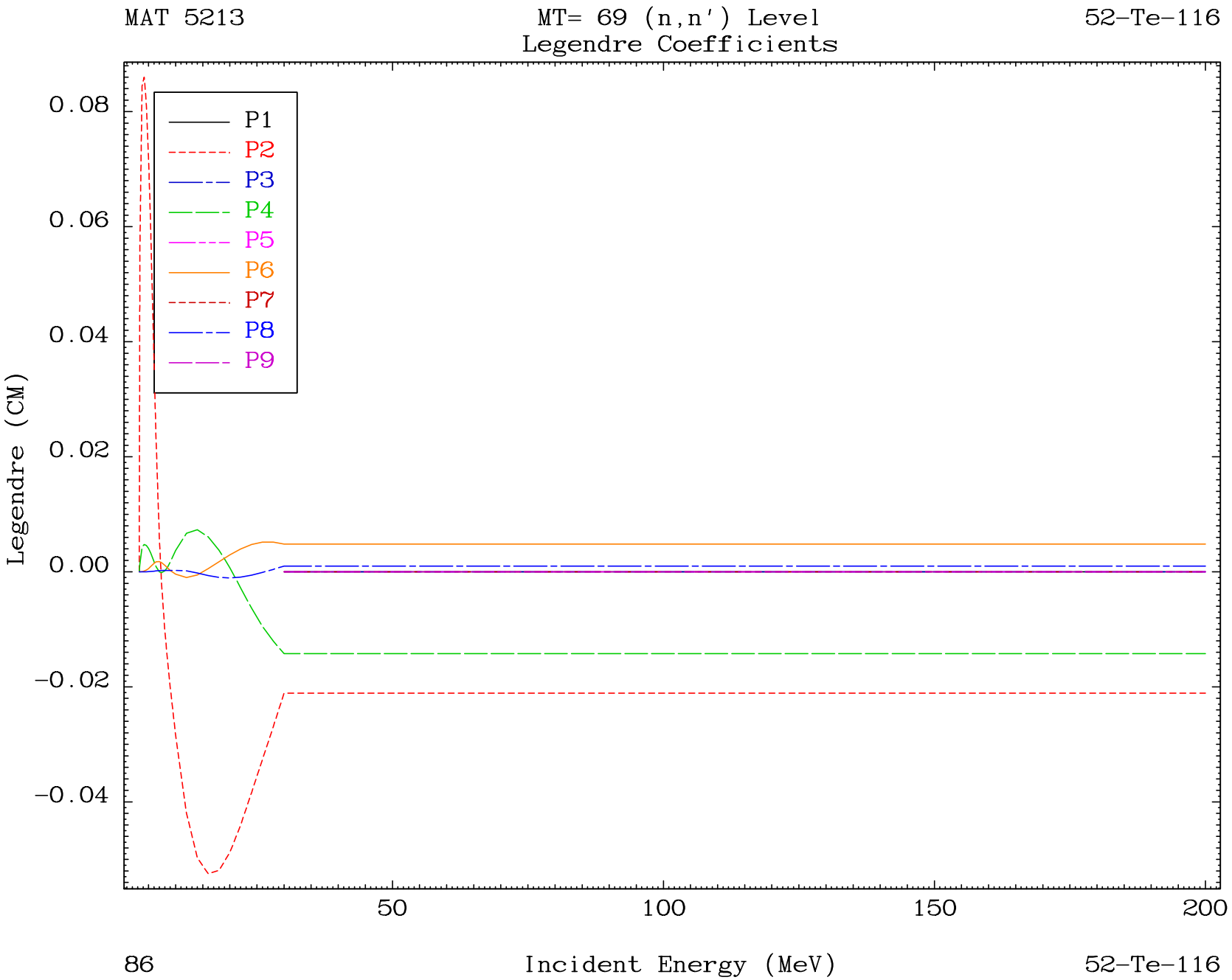

MAT 5213
MT= 67 (n,n') Level
Legendre Coefficients
52-Te-116
X10^-6
8
6
4
2
0
Legendre (CM)
50
100
150
200
81
Incident Energy (MeV)
52-Te-116
P17
P18
P19
P20
P21
P22
P23
P24

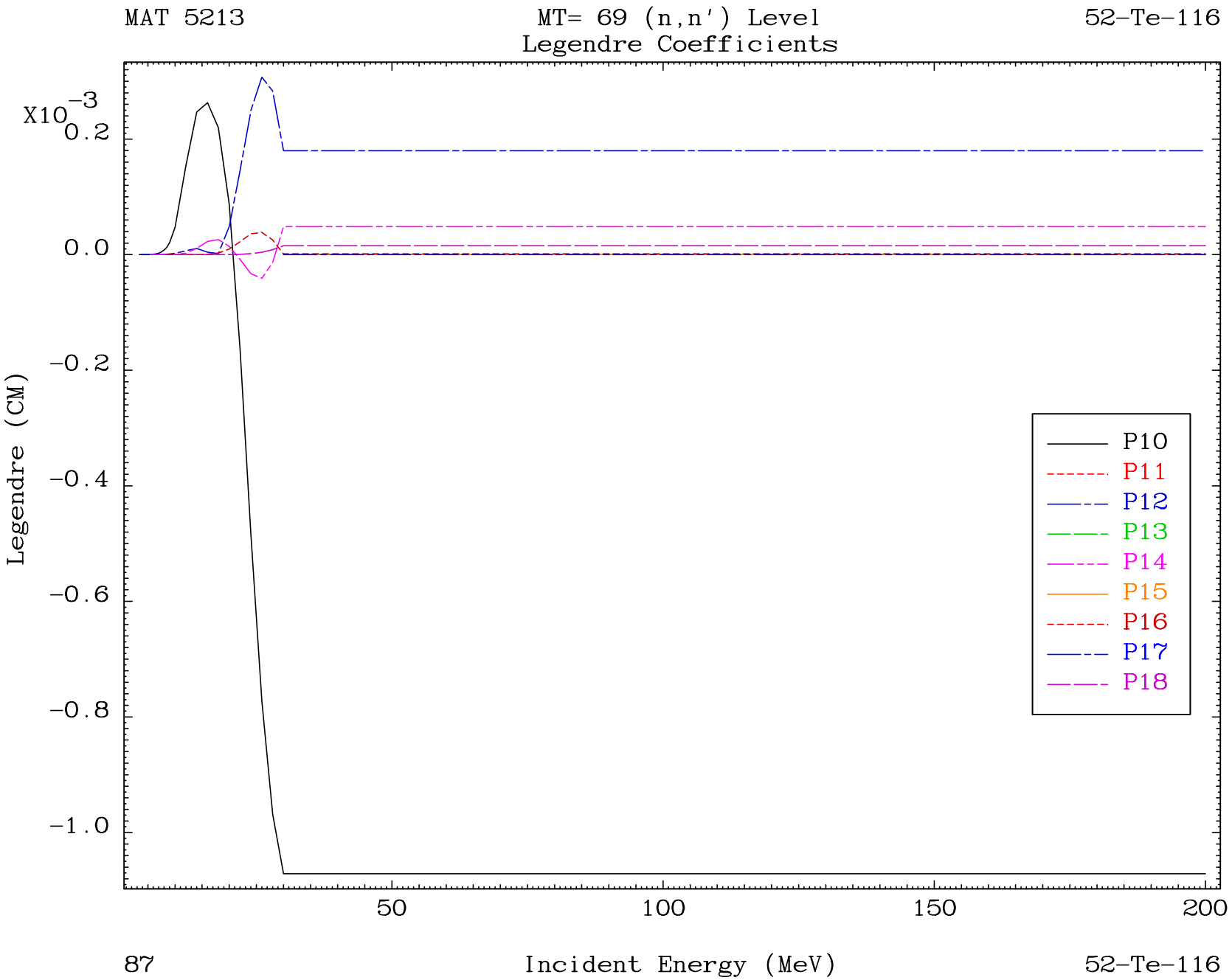

MAT 5213
MT= 68 (n,n') Level
Legendre Coefficients
52-Te-116
Legendre (CM)
0.3
0.2
0.1
0.0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
82
Incident Energy (MeV)
52-Te-116

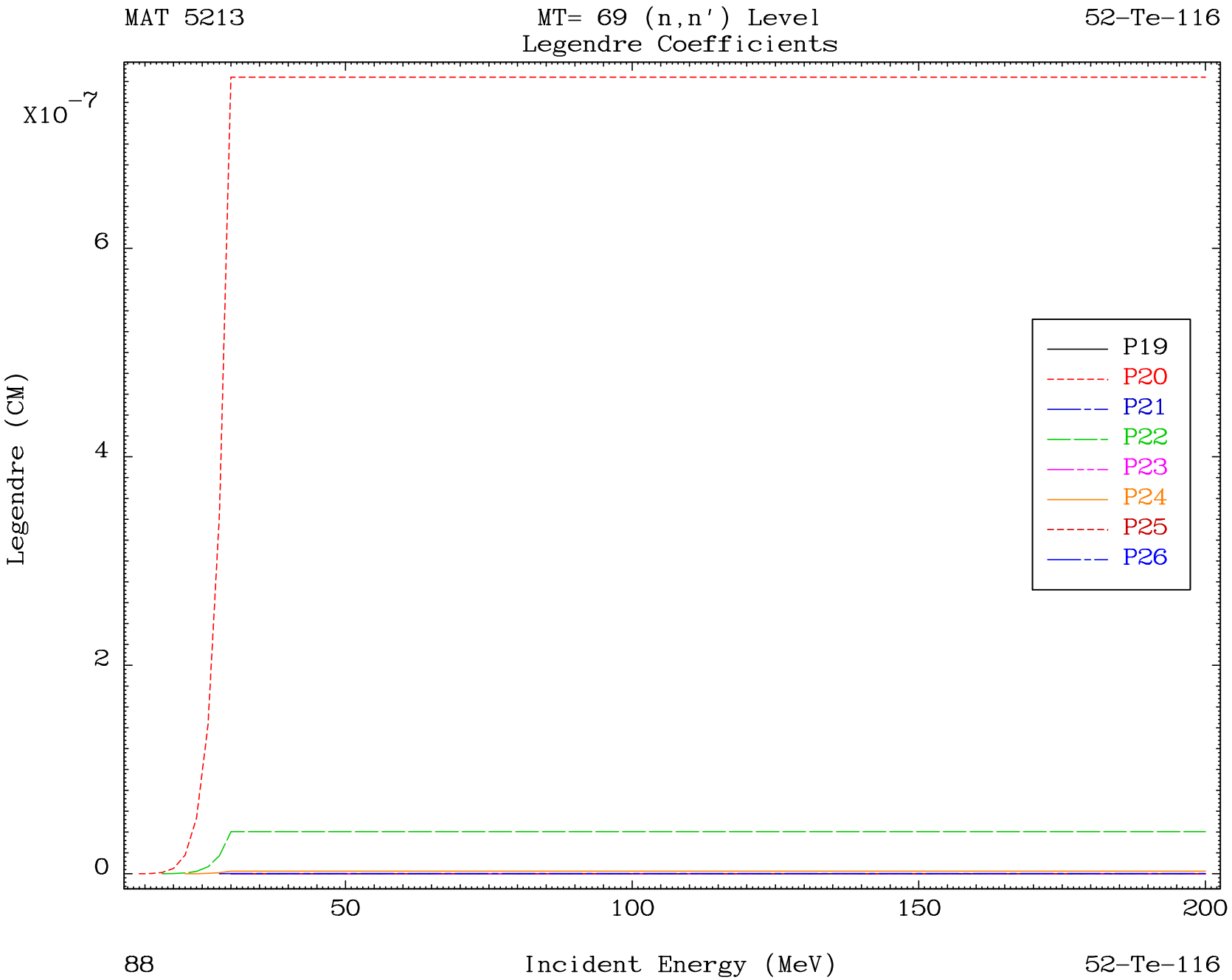

MAT 5213
MT= 68 (n,n') Level
Legendre Coefficients
52-Te-116
0.002
0.000
-0.002
-0.004
-0.006
Legendre (CM)
50
100
150
200
Incident Energy (MeV)
83
52-Te-116
P10
P11
P12
P13
P14
P15
P16
P17
P18

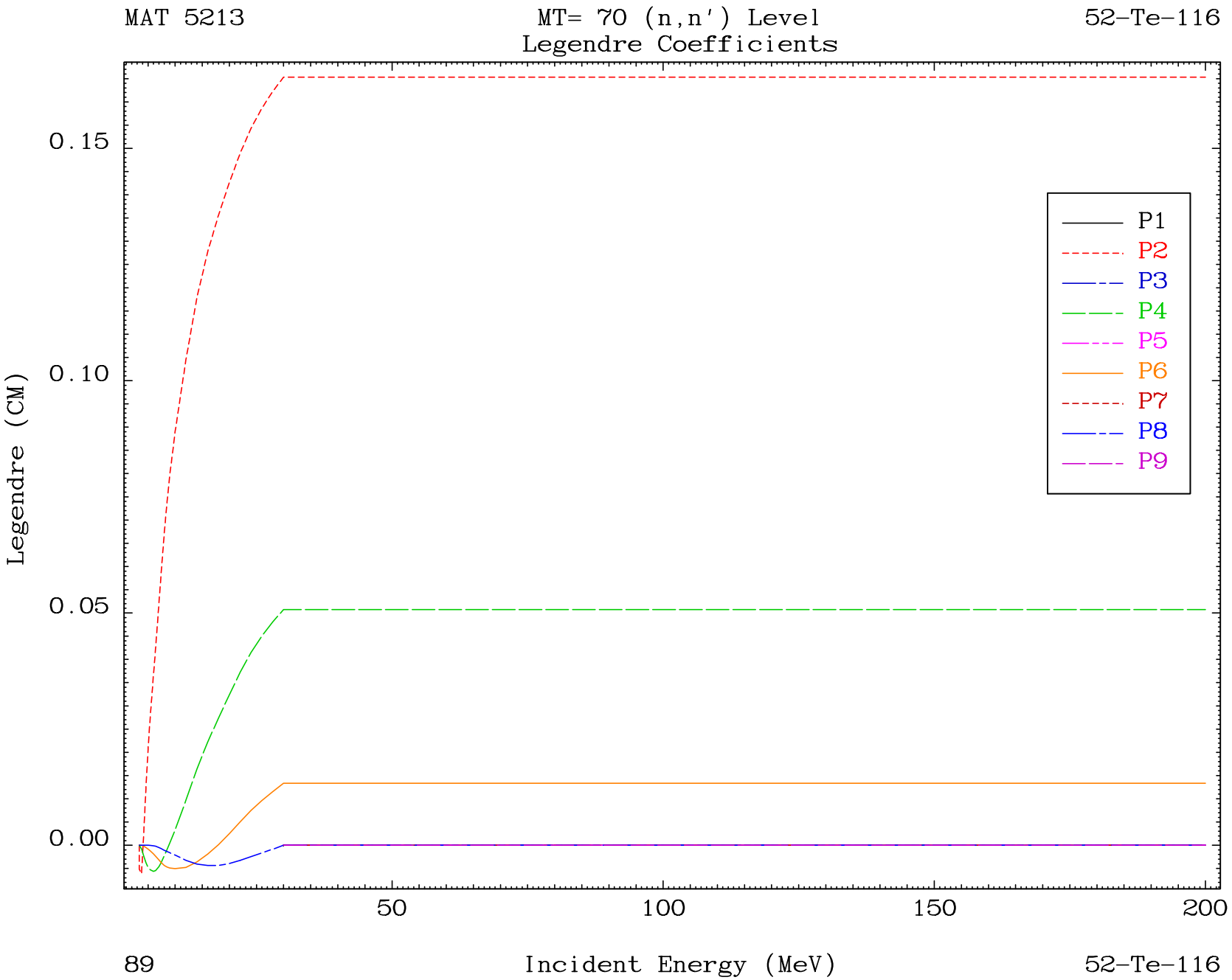

MAT 5213
MT= 68 (n,n') Level
Legendre Coefficients
52-Te-116
X10-5
P19
P20
P21
P22
P23
P24
P25
P26
P27
Legendre (CM)
6
4
2
0
50
100
150
200
84
Incident Energy (MeV)
52-Te-116

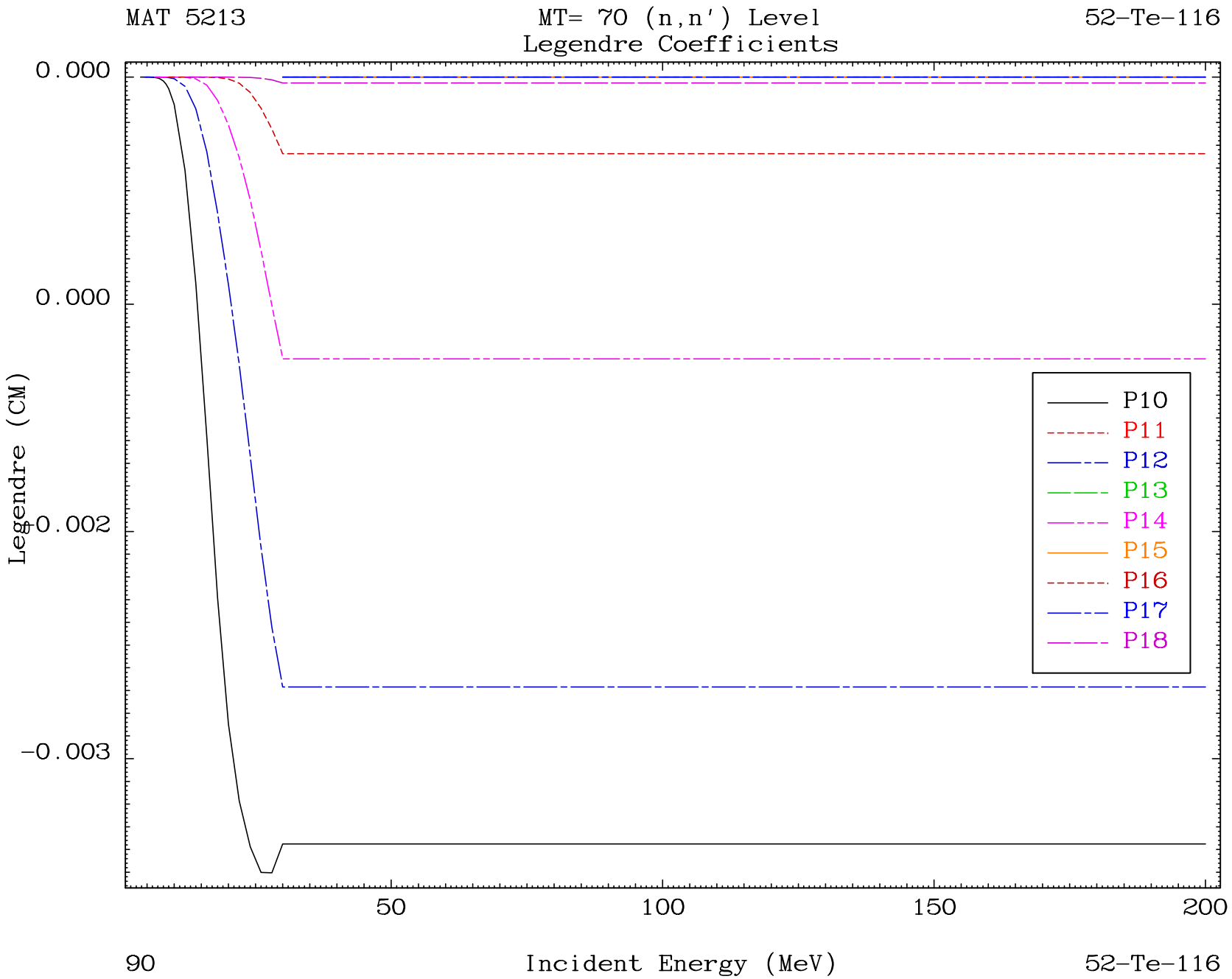

MAT 5213
MT= 68 (n,n') Level
Legendre Coefficients
52-Te-116
X10^-8
0
-1
-2
-3
-4
-5
Legendre (CM)
50
100
150
200
85
Incident Energy (MeV)
52-Te-116
P28
P29
P30
P31
P32
P33
P34

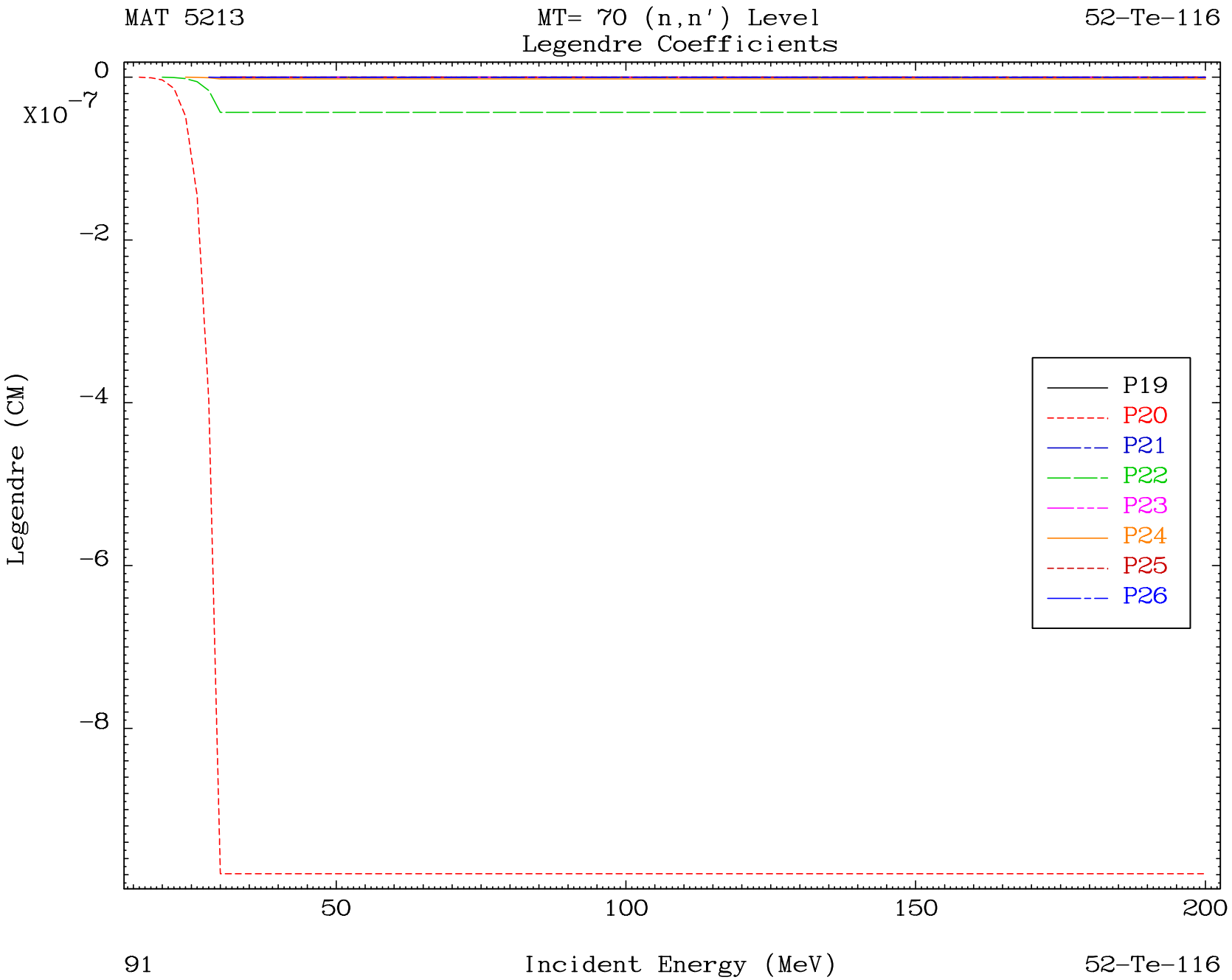

MAT 5213
MT= 69 (n,n') Level
Legendre Coefficients
52-Te-116
P1
P2
P3
P4
P5
P6
P7
P8
P9
0.08
0.06
0.04
0.02
0.00
-0.02
-0.04
Legendre (CM)
50
100
150
200
86
Incident Energy (MeV)
52-Te-116

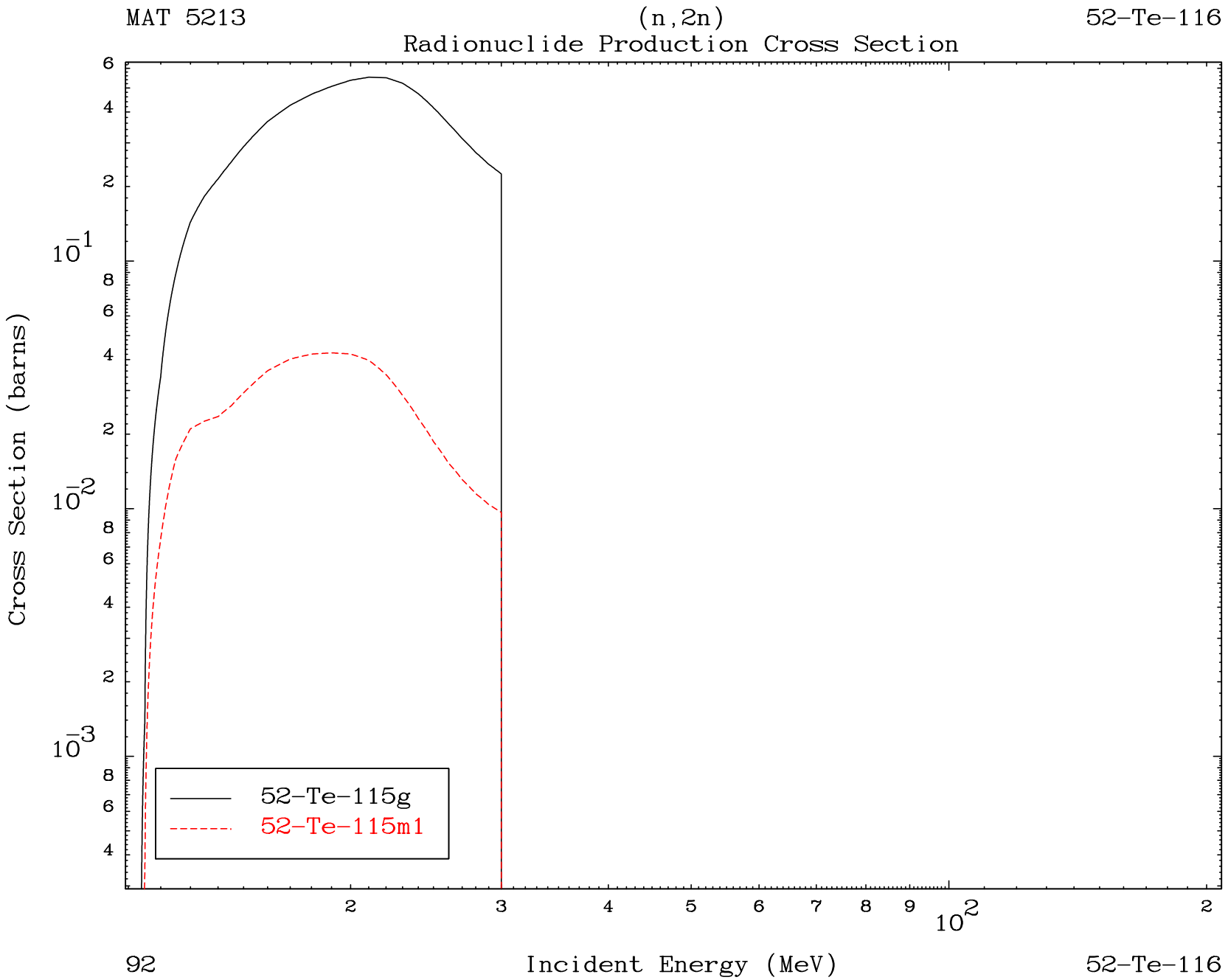

MAT 5213
MT= 69 (n,n') Level
Legendre Coefficients
52-Te-116
X10^-3
0.2
0.0
-0.2
-0.4
-0.6
-0.8
-1.0
Legendre (CM)
50
100
150
200
P10
P11
P12
P13
P14
P15
P16
P17
P18
87
Incident Energy (MeV)
52-Te-116

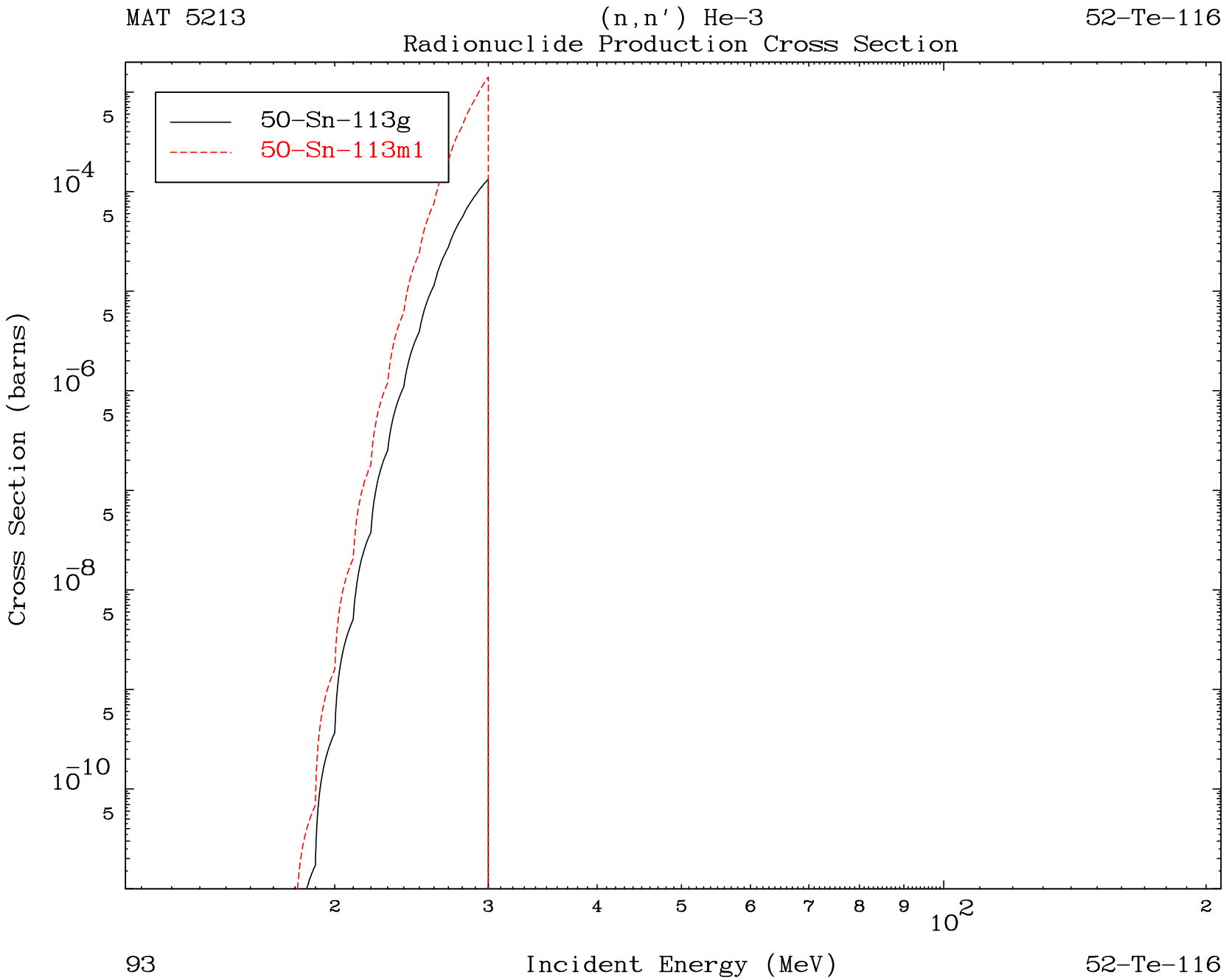

MAT 5213
MT= 69 (n,n') Level
Legendre Coefficients
52-Te-116
X10-7
6
4
2
0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
50
100
150
200
88
Incident Energy (MeV)
52-Te-116

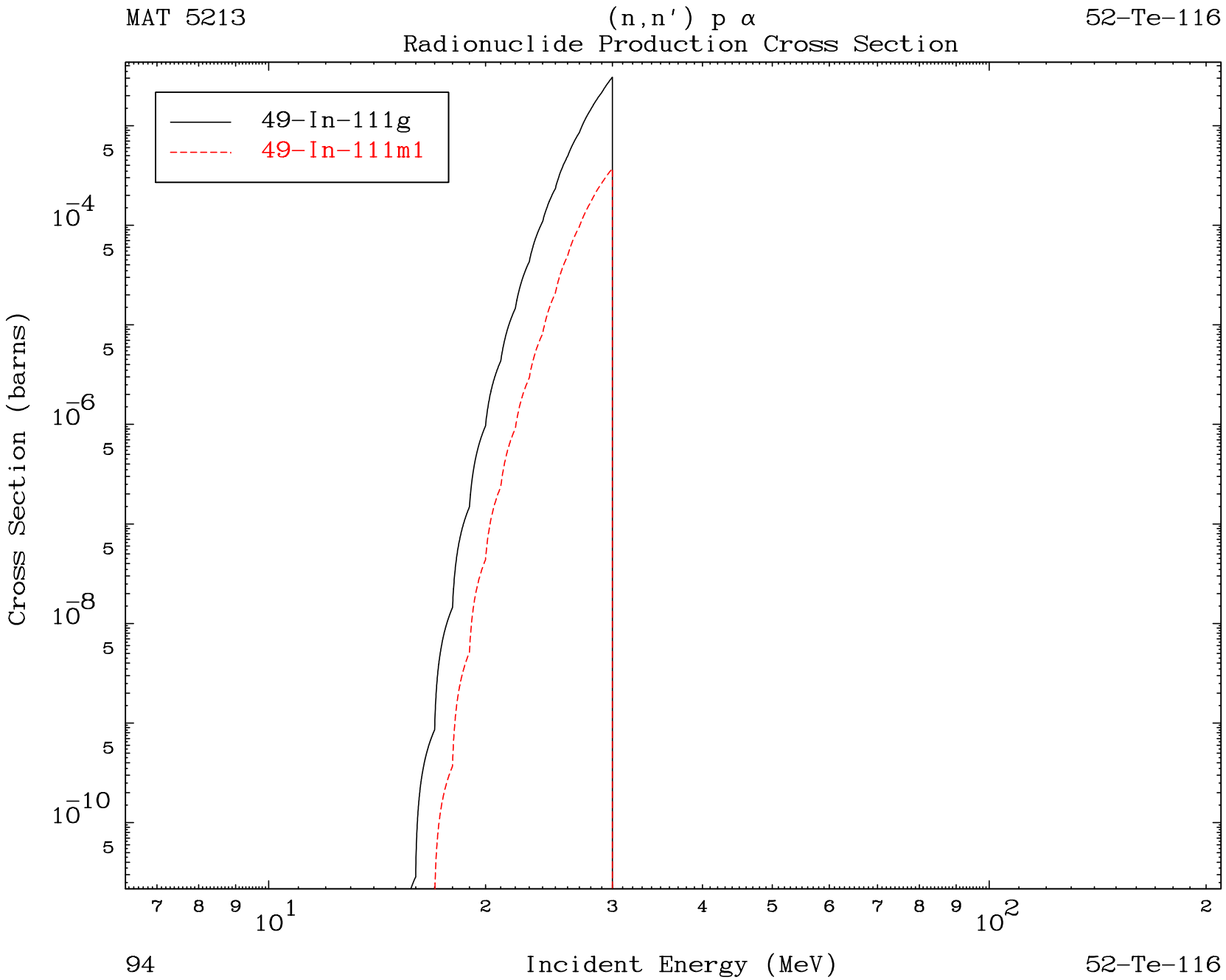

MAT 5213
MT= 70 (n,n') Level
Legendre Coefficients
52-Te-116
0.15
0.10
0.05
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
50
100
150
200
89
Incident Energy (MeV)
52-Te-116

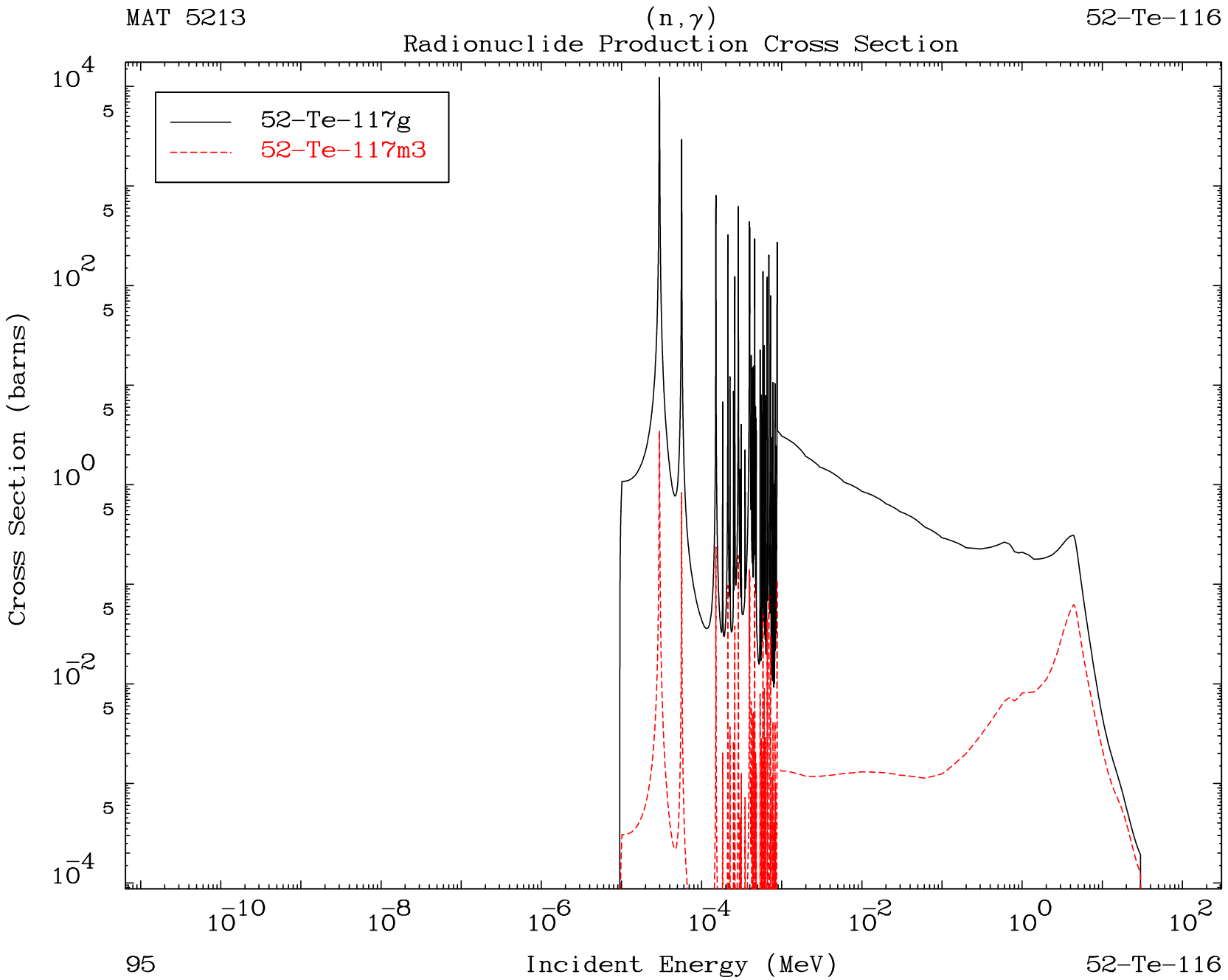

MAT 5213
MT= 70 (n,n') Level
Legendre Coefficients
52-Te-116
0.000
0.000
-0.002
-0.003
Legendre (CM)
50
100
150
200
90
Incident Energy (MeV)
52-Te-116
P10
P11
P12
P13
P14
P15
P16
P17
P18

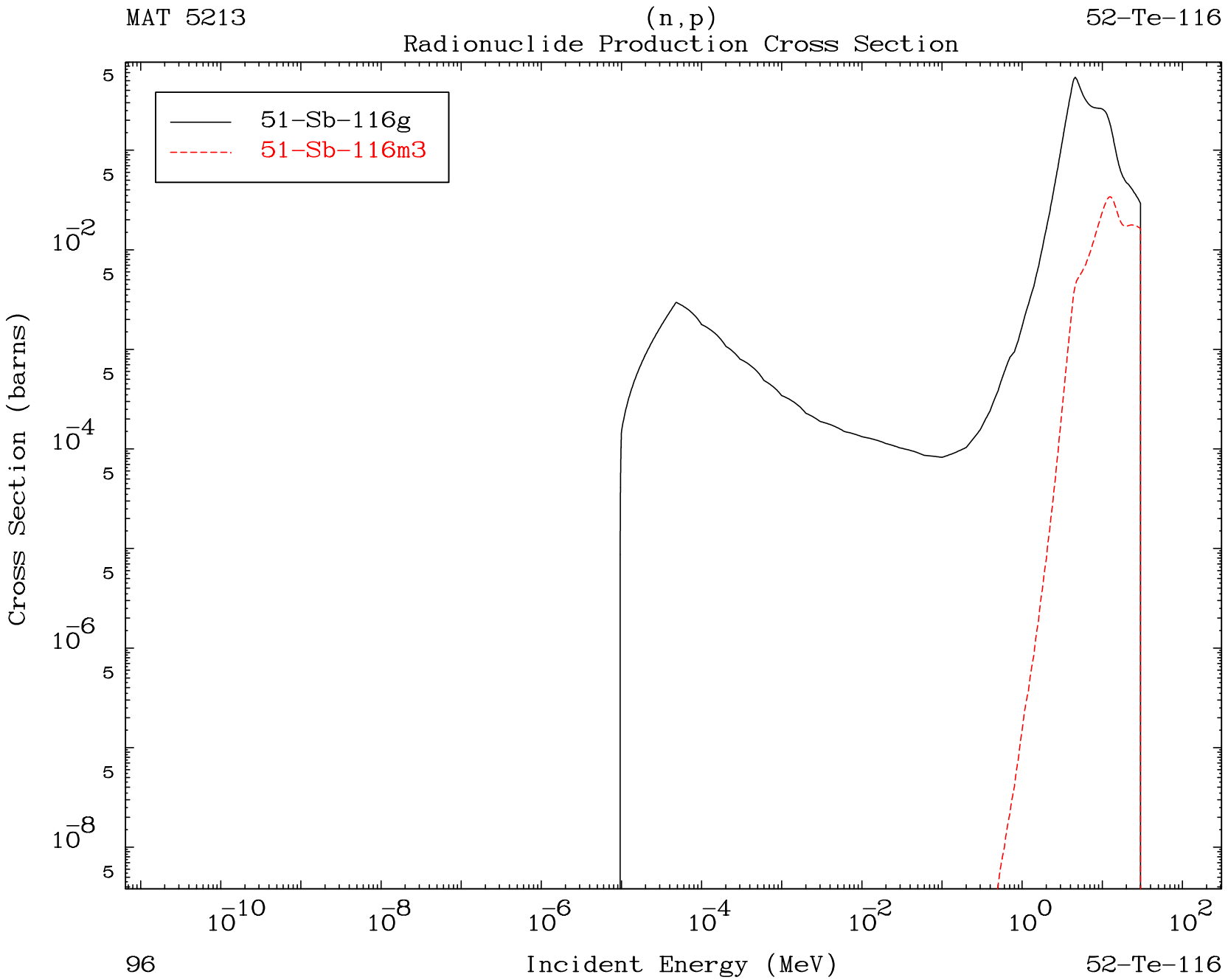

MAT 5213
MT= 70 (n,n') Level
Legendre Coefficients
52-Te-116
X10-7
0
-2
-4
-6
-8
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
50
100
150
200
91
Incident Energy (MeV)
52-Te-116

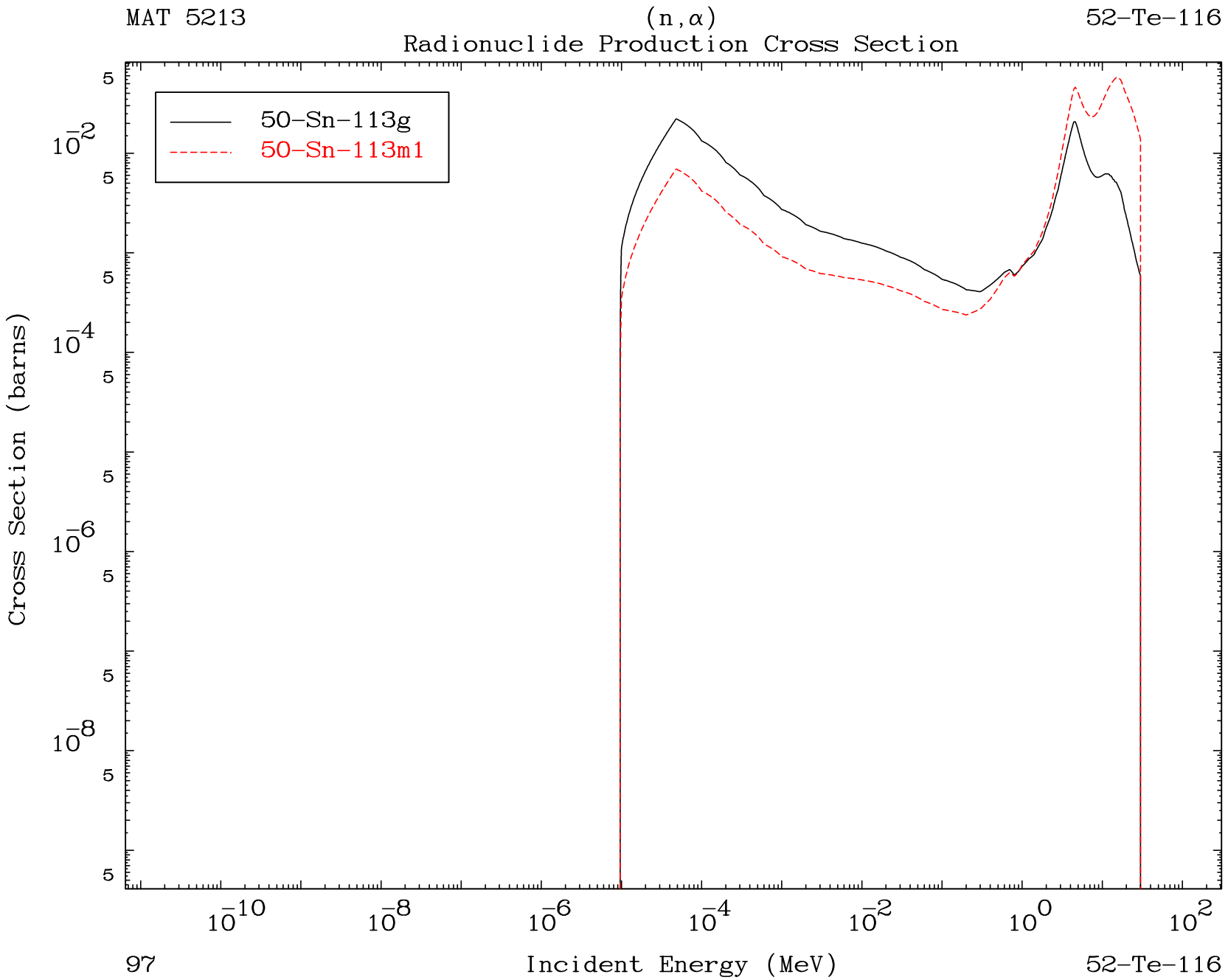

MAT 5213
(n,2n)
52-Te-116
Radionuclide Production Cross Section
Cross Section (barns)
10^{-1}
10^{-2}
10^{-3}
6
4
2
8
6
4
2
8
6
4
2
8
6
4
2
3
4
5
6
7
8
9
10^{2}
2
52-Te-115g
52-Te-115m1
92
Incident Energy (MeV)
52-Te-116

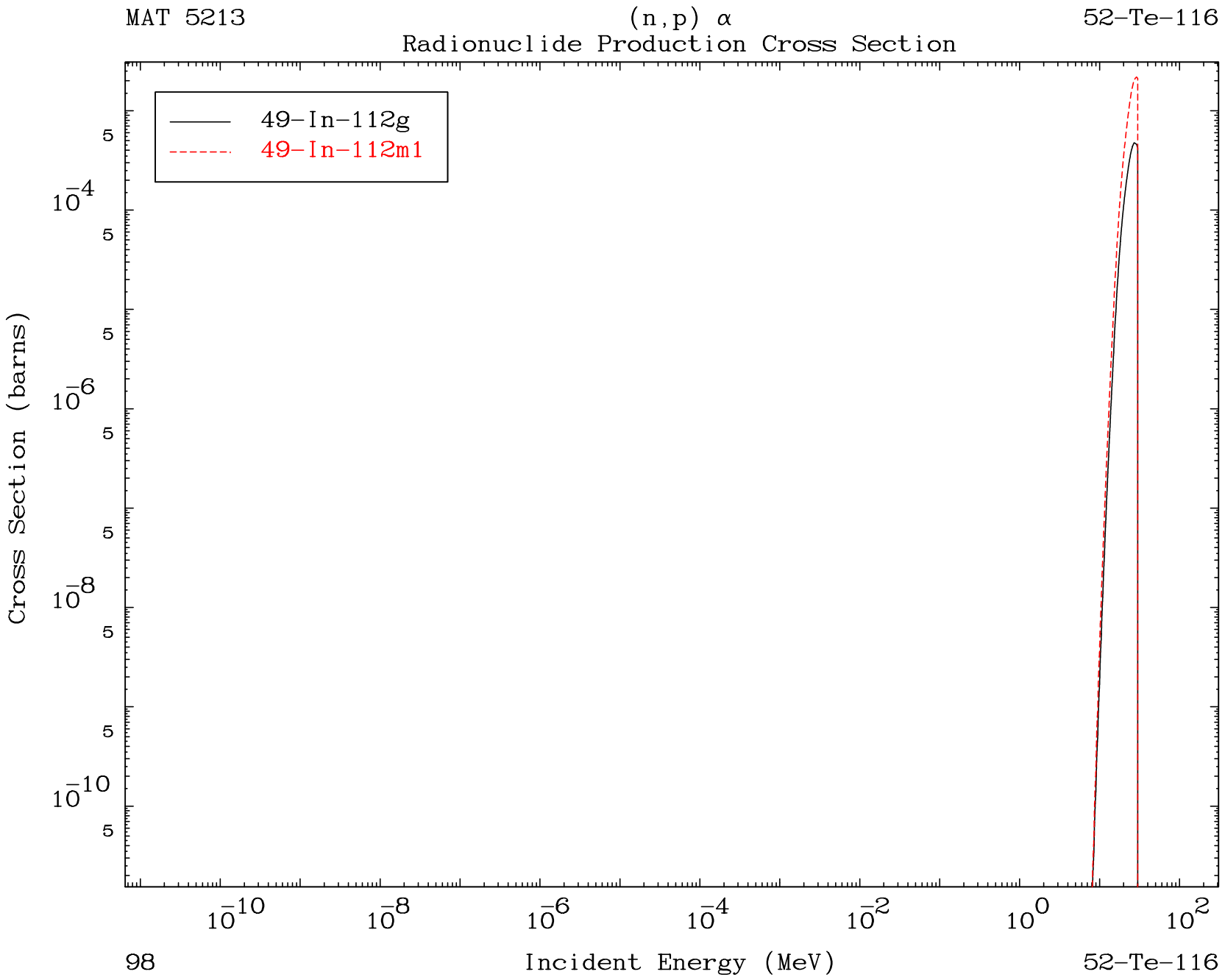

MAT 5213
(n,n') He-3
52-Te-116
Radionuclide Production Cross Section
50-Sn-113g
50-Sn-113m1
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
2
3
4
5
6
7
8
9
10^2
2
93
Incident Energy (MeV)
52-Te-116

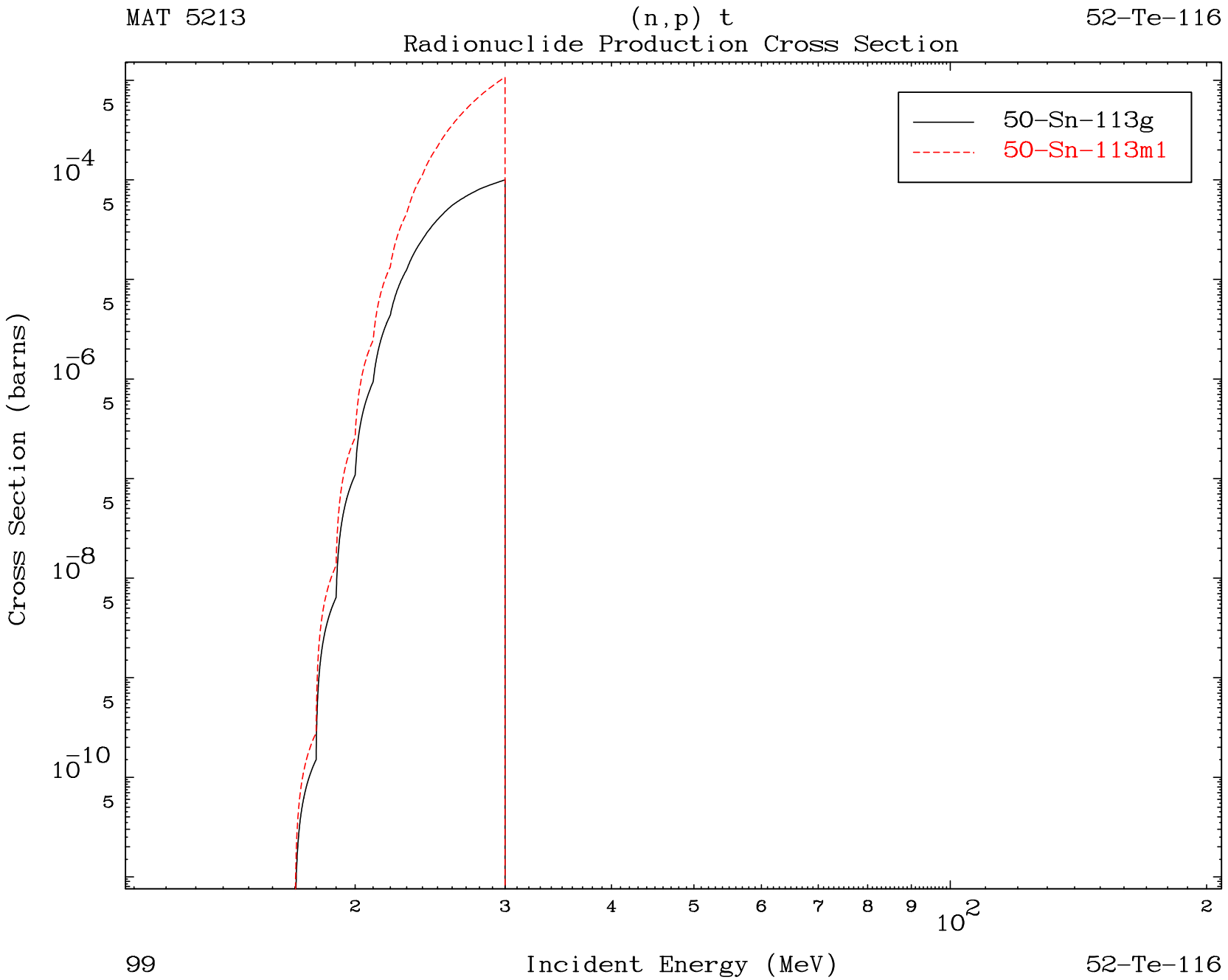

MAT 5213
(n,n') p α
52-Te-116
Radionuclide Production Cross Section
49-In-111g
49-In-111m1
Cross Section (barns)
10-4
10-6
10-8
10-10
5
7 8 9
10 1
2 3 4 5 6 7 8 9
10 2
2
94
Incident Energy (MeV)
52-Te-116

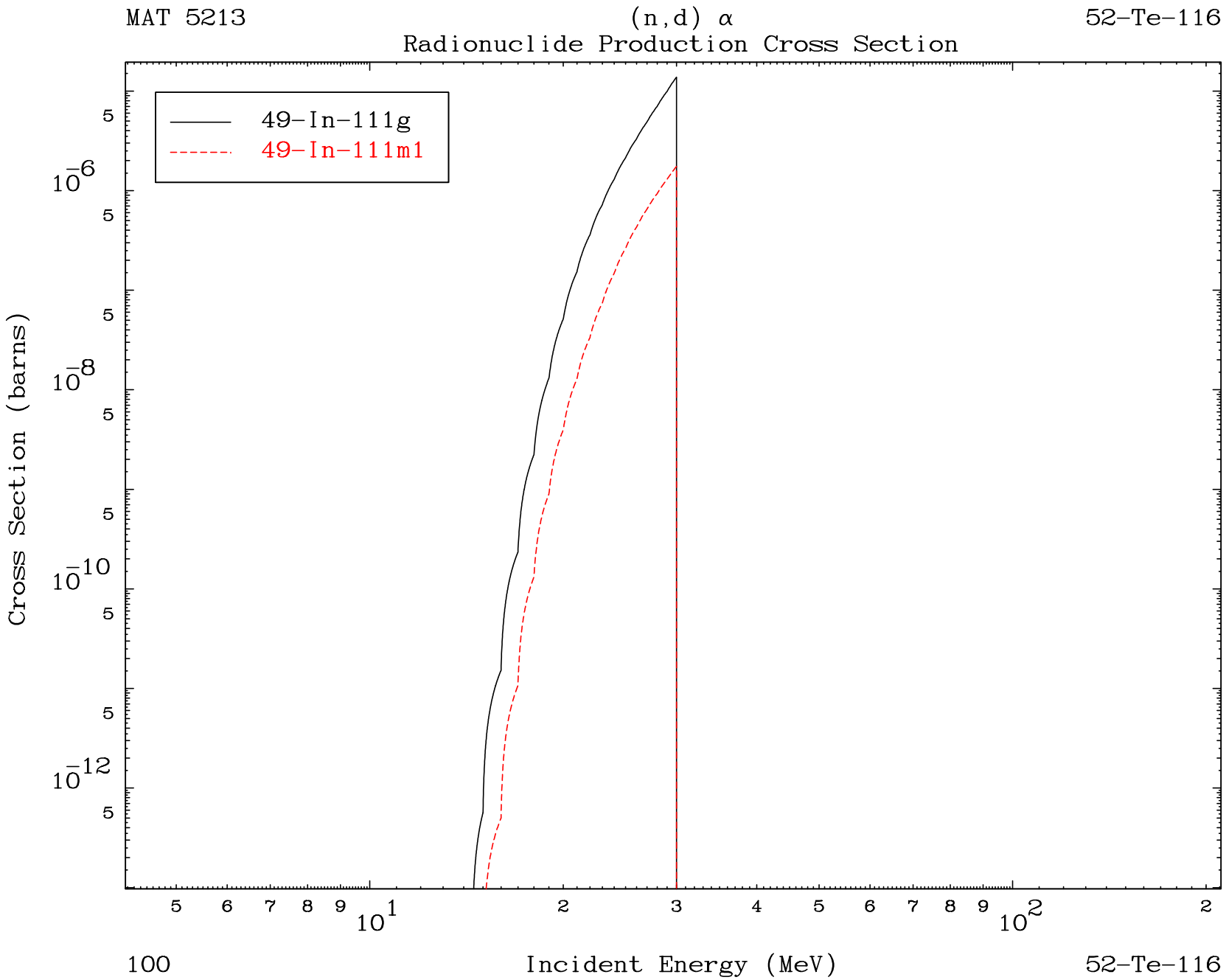

MAT 5213
(n,γ)
52-Te-116
Radionuclide Production Cross Section
52-Te-117g
52-Te-117m3
Cross Section (barns)
Incident Energy (MeV)
95
52-Te-116


MAT 5213
(n,p)
52-Te-116
Radionuclide Production Cross Section
51-Sb-116g
51-Sb-116m3
Cross Section (barns)
Incident Energy (MeV)
96
52-Te-116


MAT 5213
(n,α)
52-Te-116
Radionuclide Production Cross Section
50-Sn-113g
50-Sn-113m1
Cross Section (barns)
Incident Energy (MeV)
97
52-Te-116


MAT 5213
(n,p) α
52-Te-116
Radionuclide Production Cross Section
49-In-112g
49-In-112m1
Cross Section (barns)
10-4
10-6
10-8
10-10
10-10
10-8
10-6
10-4
10-2
100
102
98
Incident Energy (MeV)
52-Te-116


MAT 5213
(n,p) t
52-Te-116
Radionuclide Production Cross Section
50-Sn-113g
50-Sn-113m1
Cross Section (barns)
10-4
10-6
10-8
10-10
5
2
3
4
5
6
7
8
9
10 2
2
99
Incident Energy (MeV)
52-Te-116


MAT 5213
(n,d) α
52-Te-116
Radionuclide Production Cross Section
49-In-111g
49-In-111m1
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
10^1
2
3
4
5
6
7
8
9
10^2
2
100
Incident Energy (MeV)
52-Te-116