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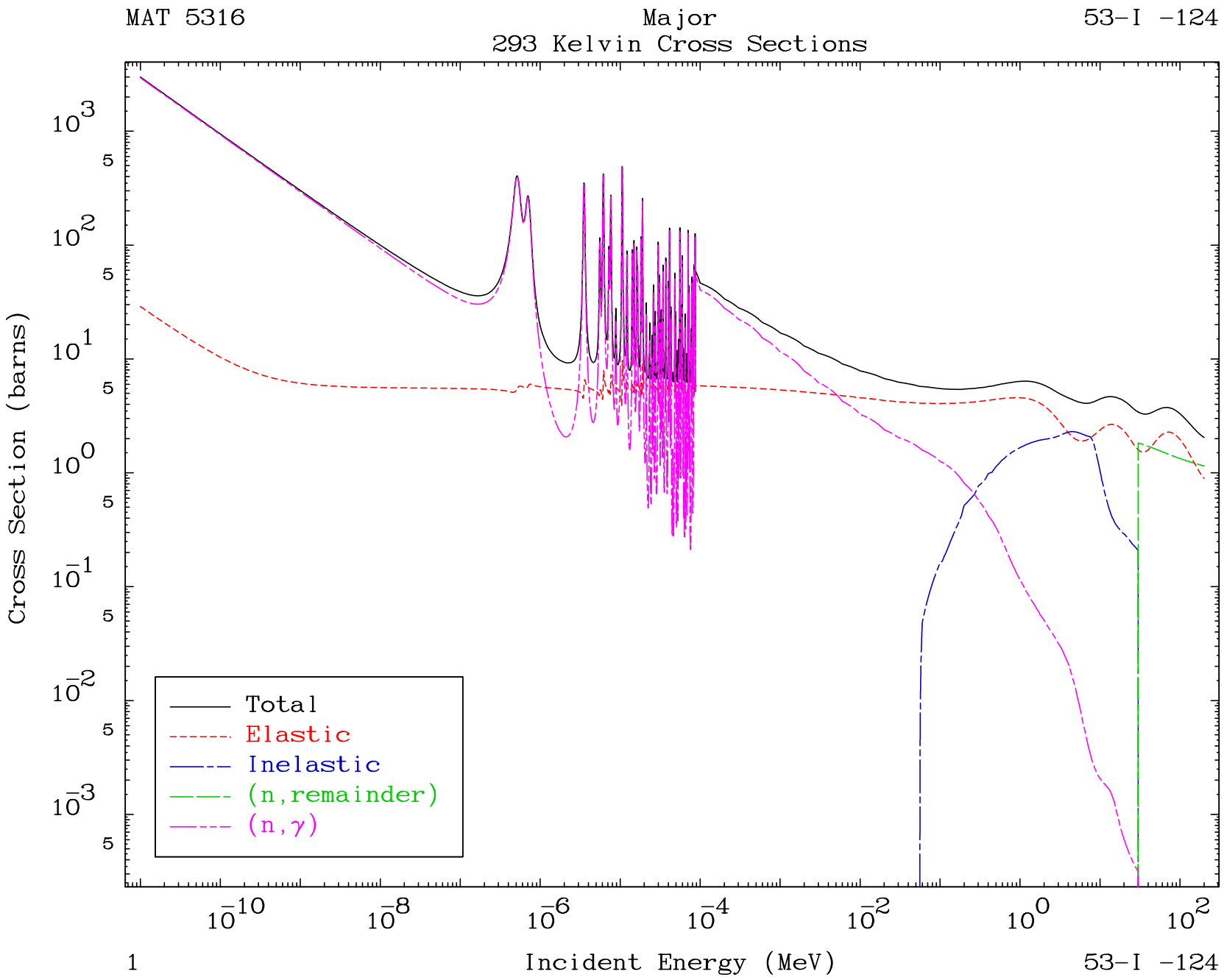
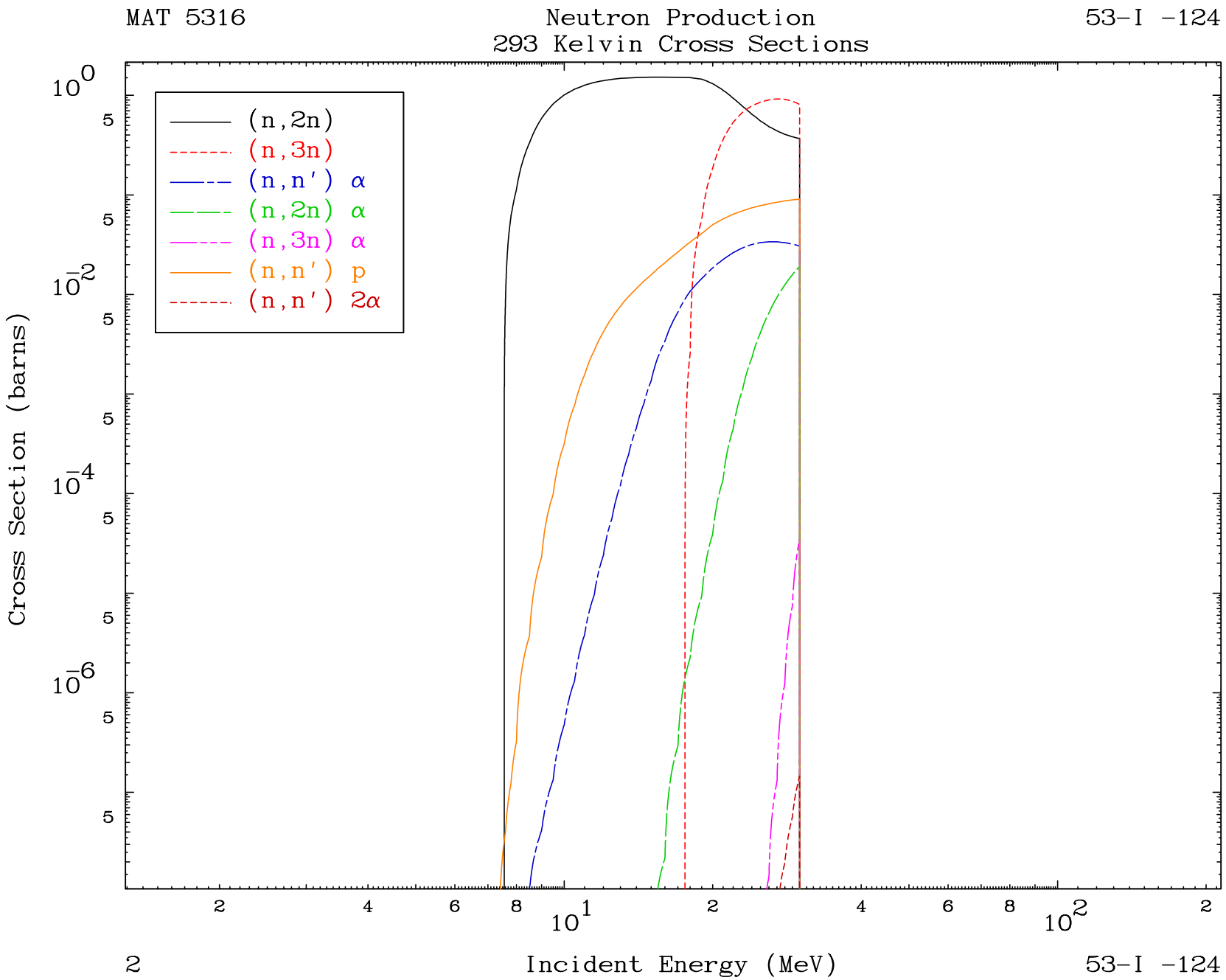
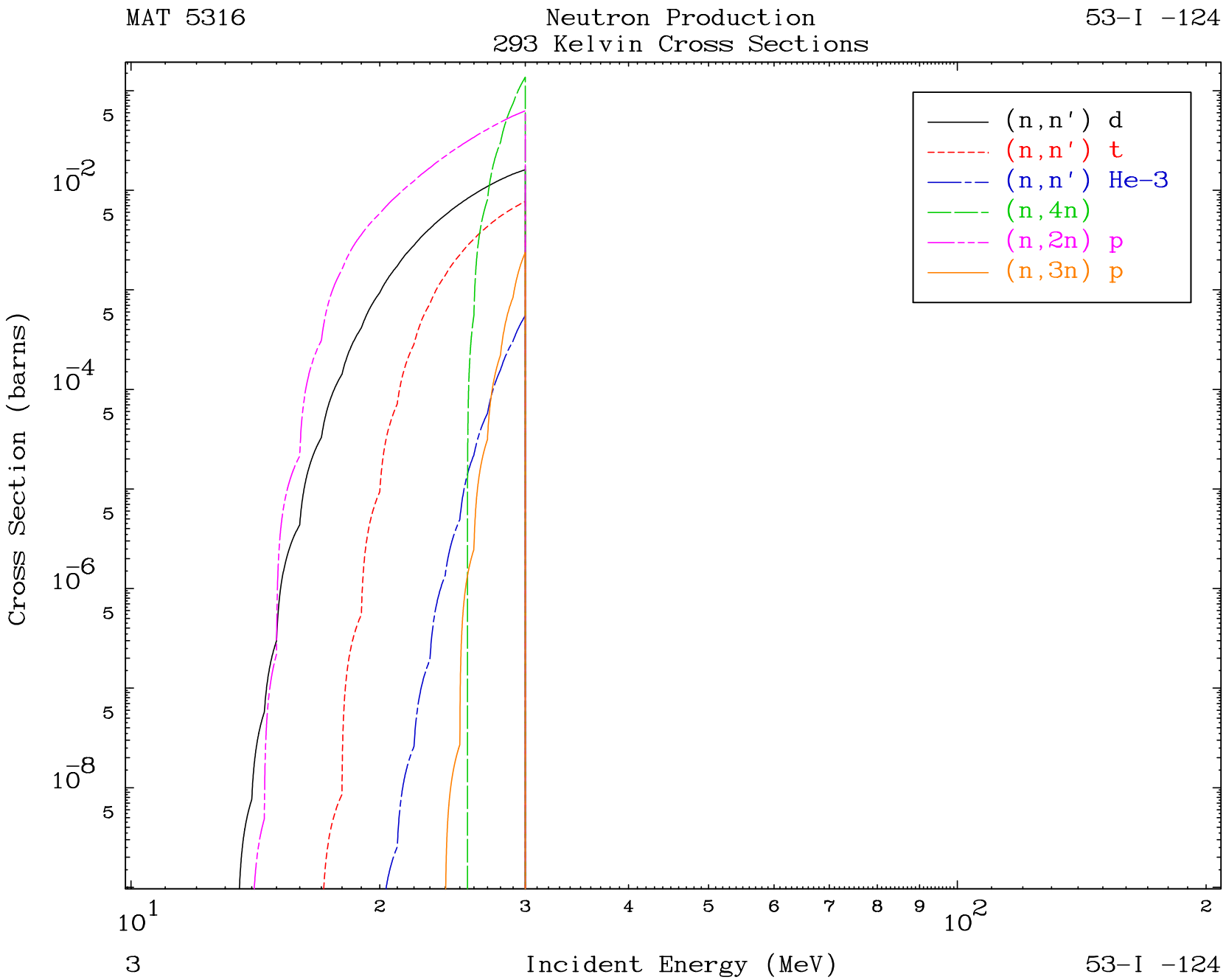
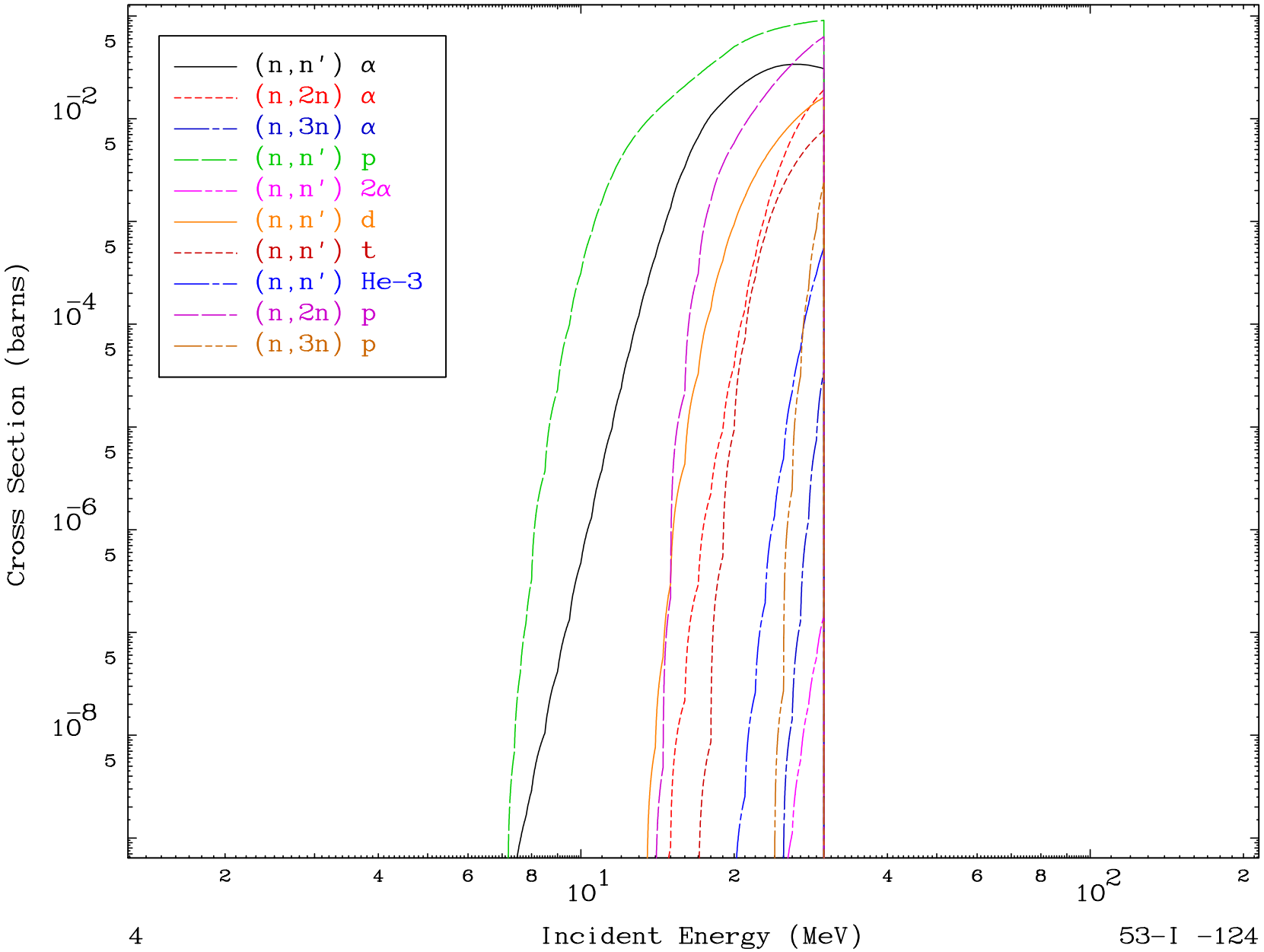
Press Mouse Button to Start

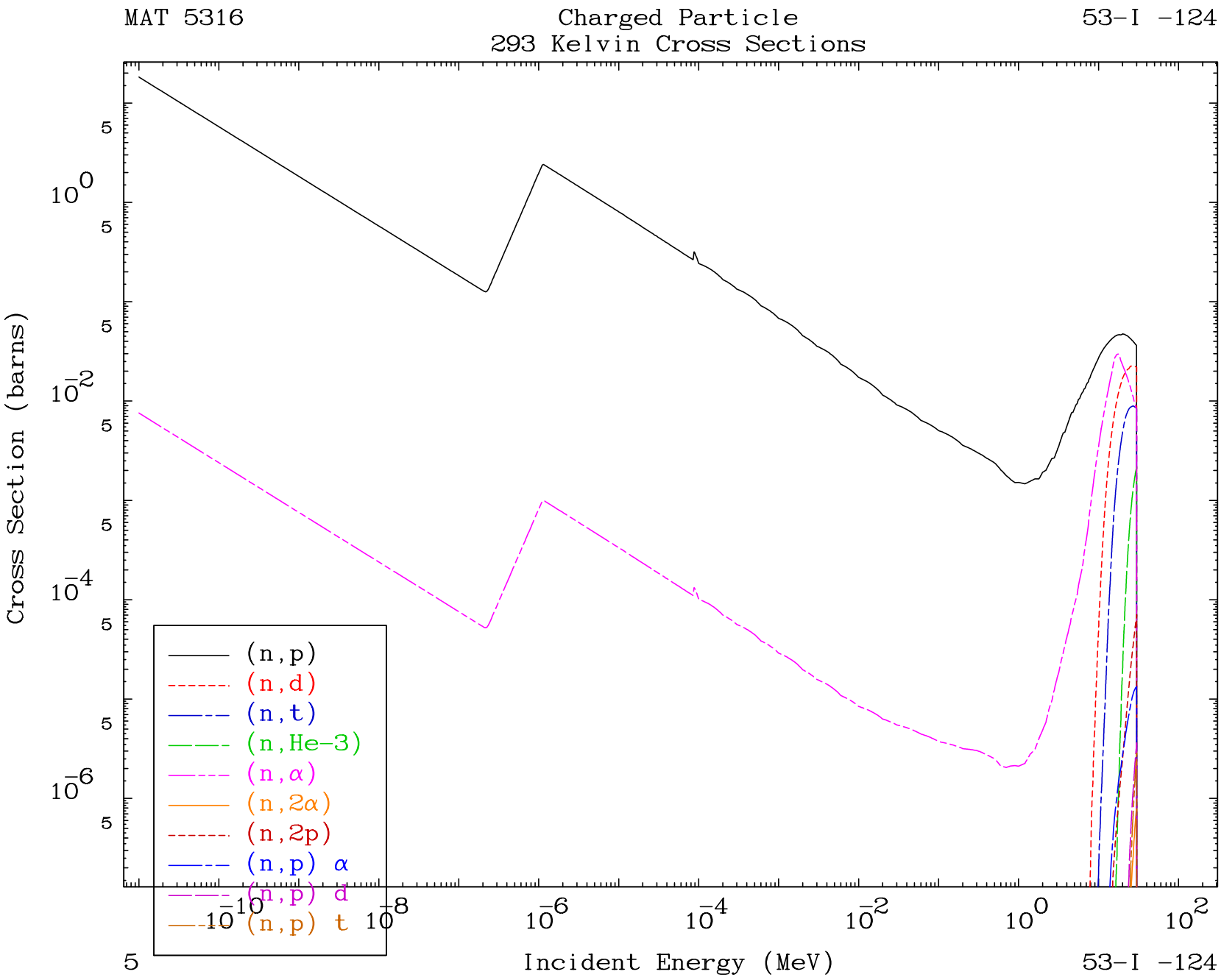

MAT 5316
Major
53-I -124
293 Kelvin Cross Sections
Cross Section (barns)
Incident Energy (MeV)
Total
Elastic
Inelastic
(n,remainder)
(n,γ)
1
53-I -124

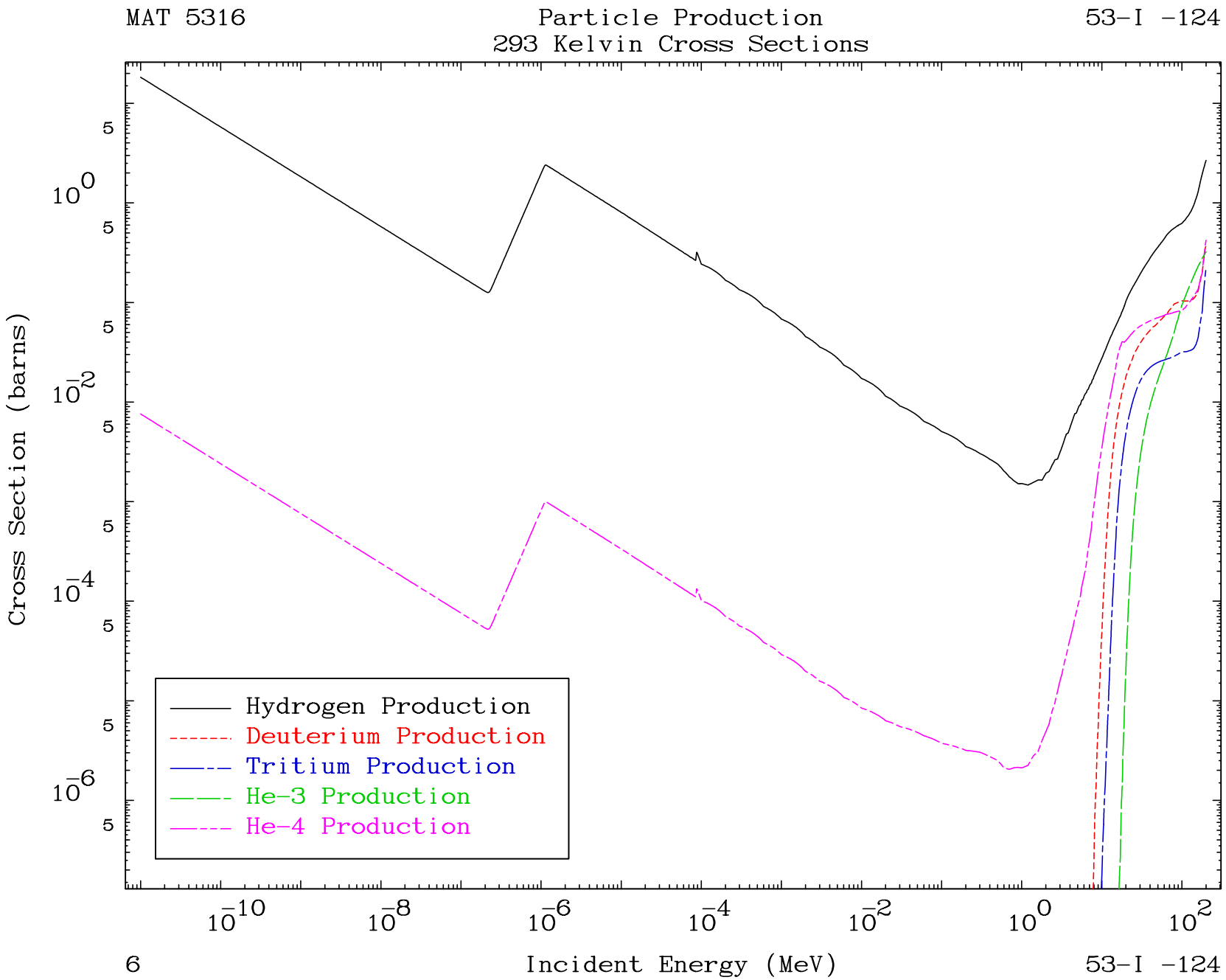

MAT 5316
Neutron Production
293 Kelvin Cross Sections
53-I -124
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
Cross Section (barns)
Incident Energy (MeV)
53-I -124

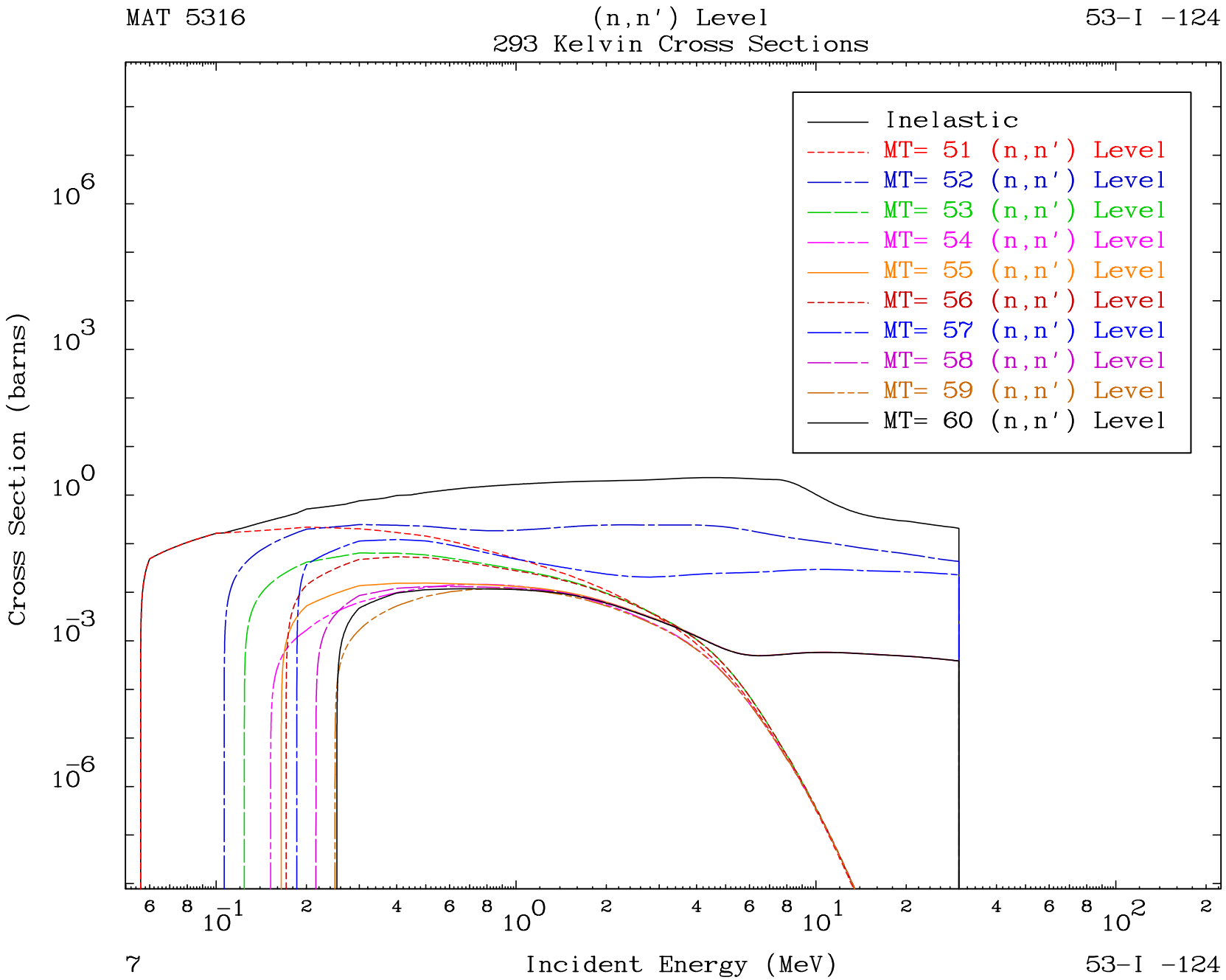

MAT 5316
Neutron Production
293 Kelvin Cross Sections
53-I -124
(n,n') d
(n,n') t
(n,n') He-3
(n,4n)
(n,2n) p
(n,3n) p
Cross Section (barns)
Incident Energy (MeV)
53-I -124

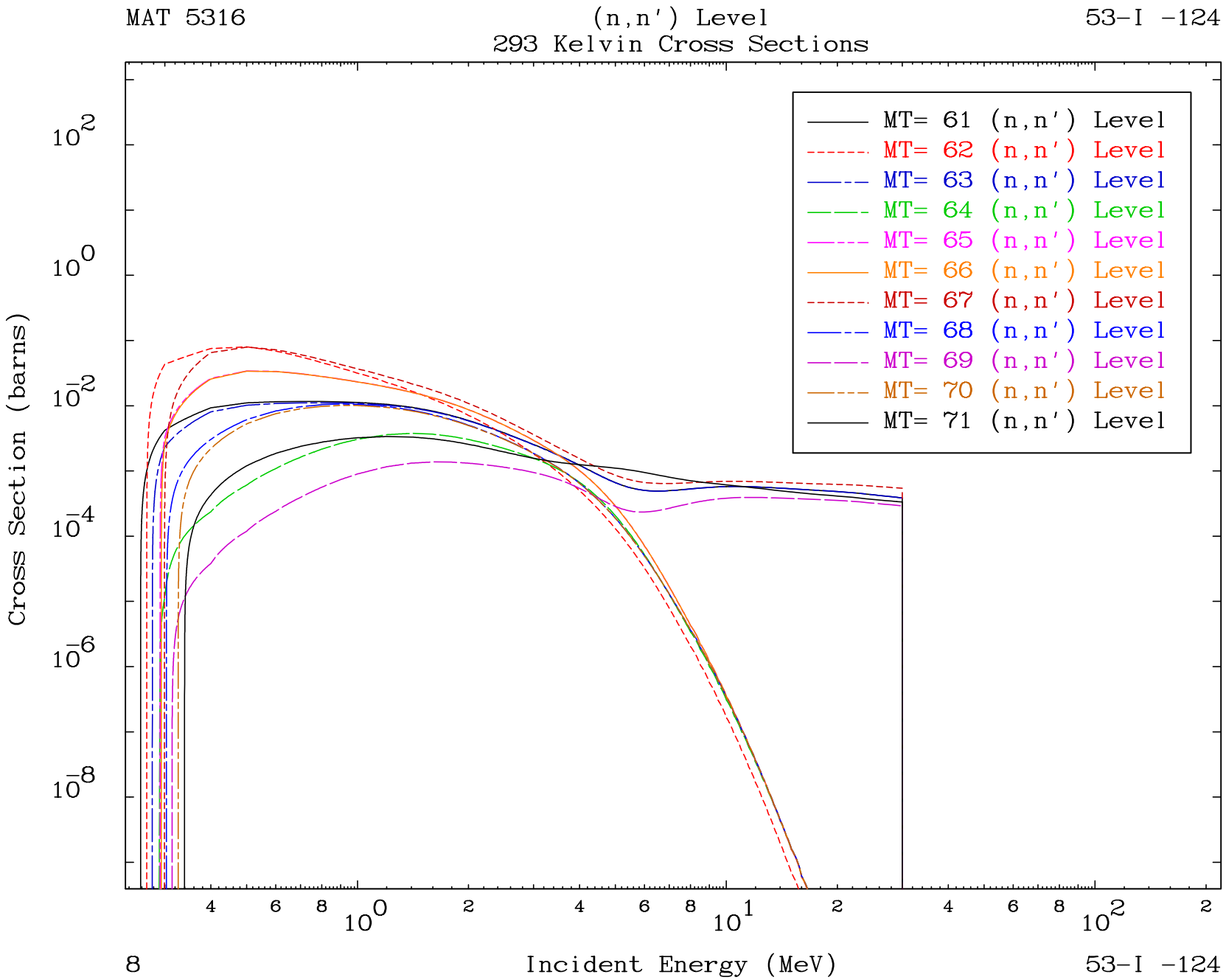
293 Kelvin Cross Sections

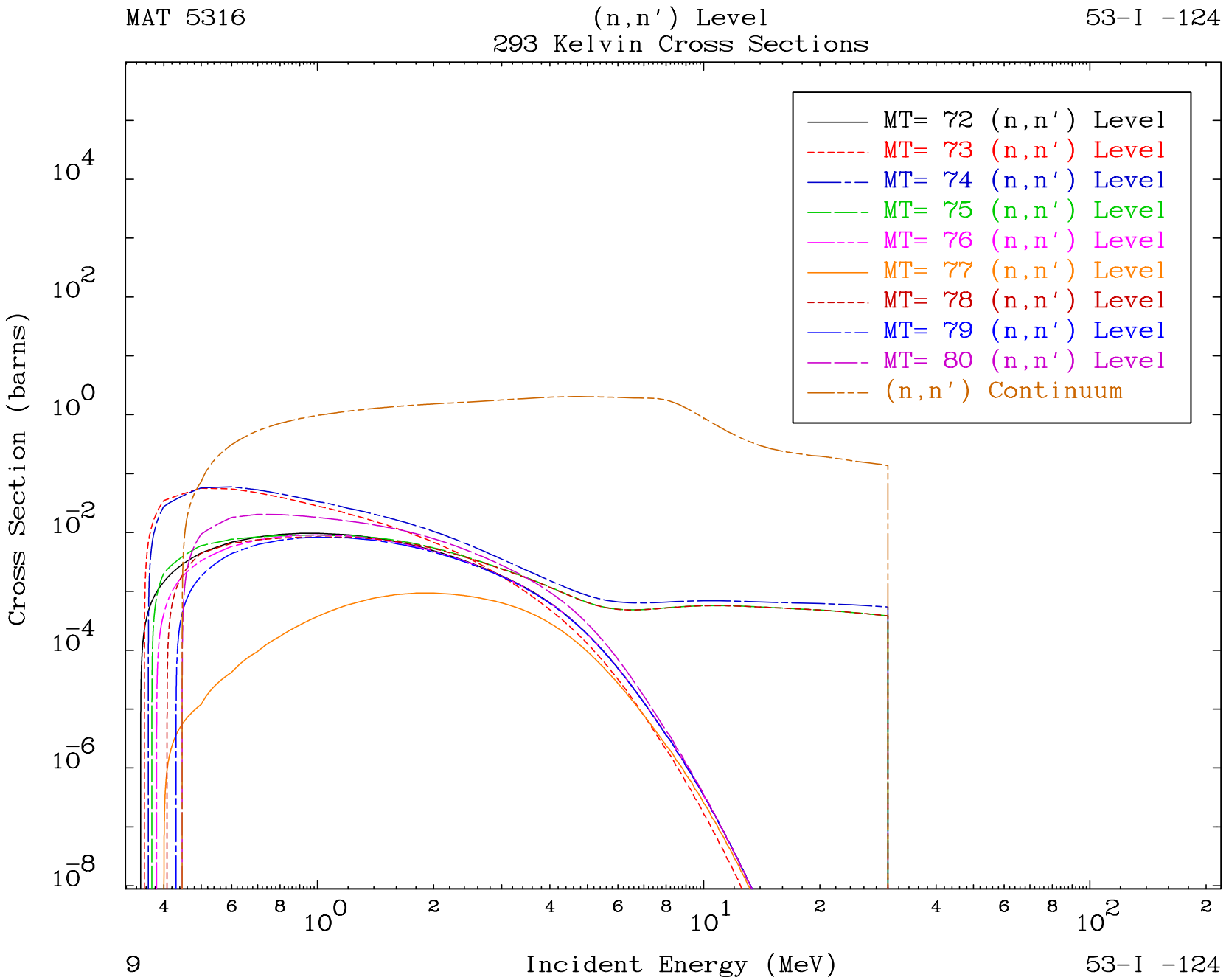


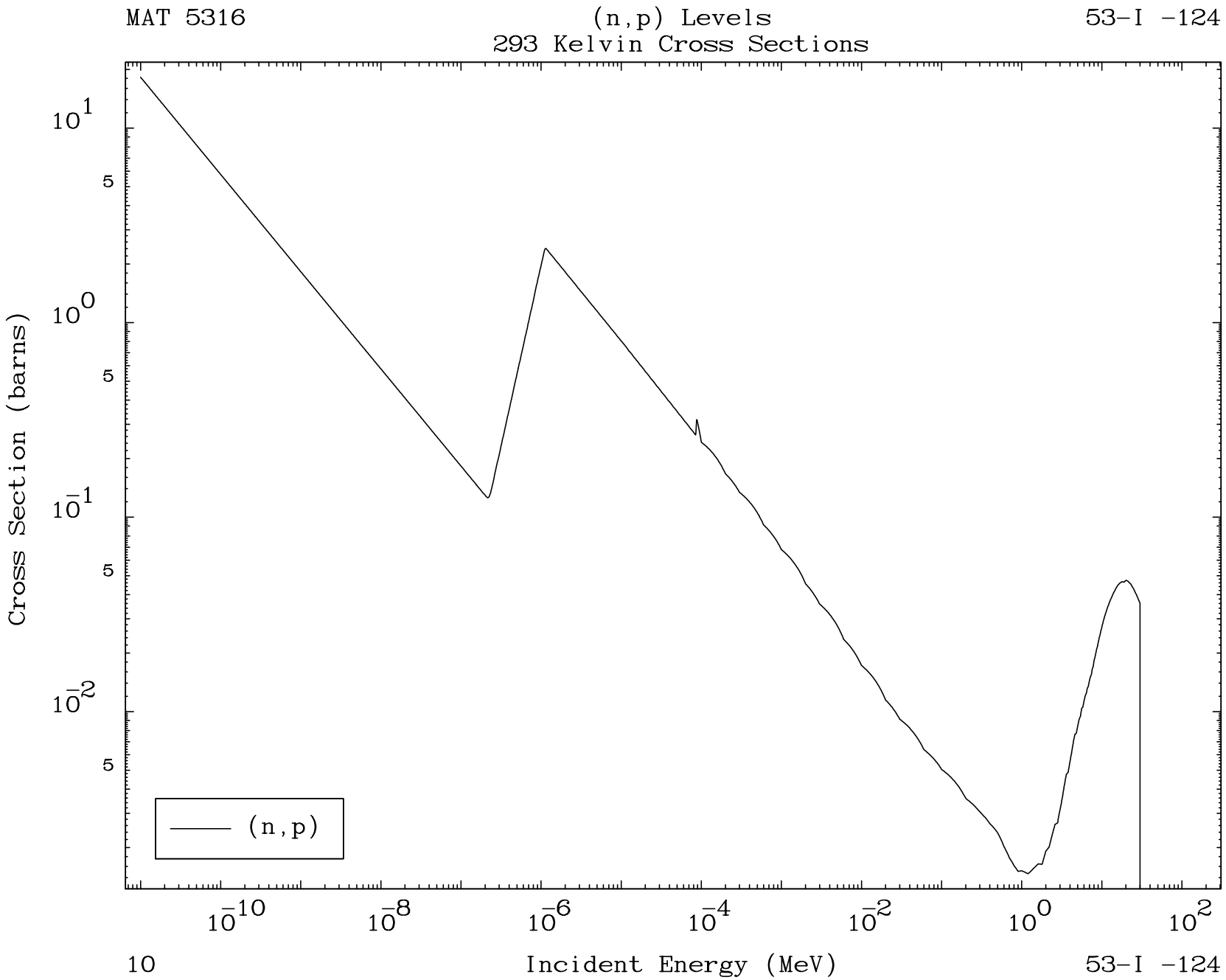

MAT 5316
Charged Particle
293 Kelvin Cross Sections
53-I -124
Cross Section (barns)
Incident Energy (MeV)
53-I -124
(n,p)
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t


MAT 5316
Particle Production
293 Kelvin Cross Sections
53-I -124
Cross Section (barns)
10^0
10^-2
10^-4
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
53-I -124

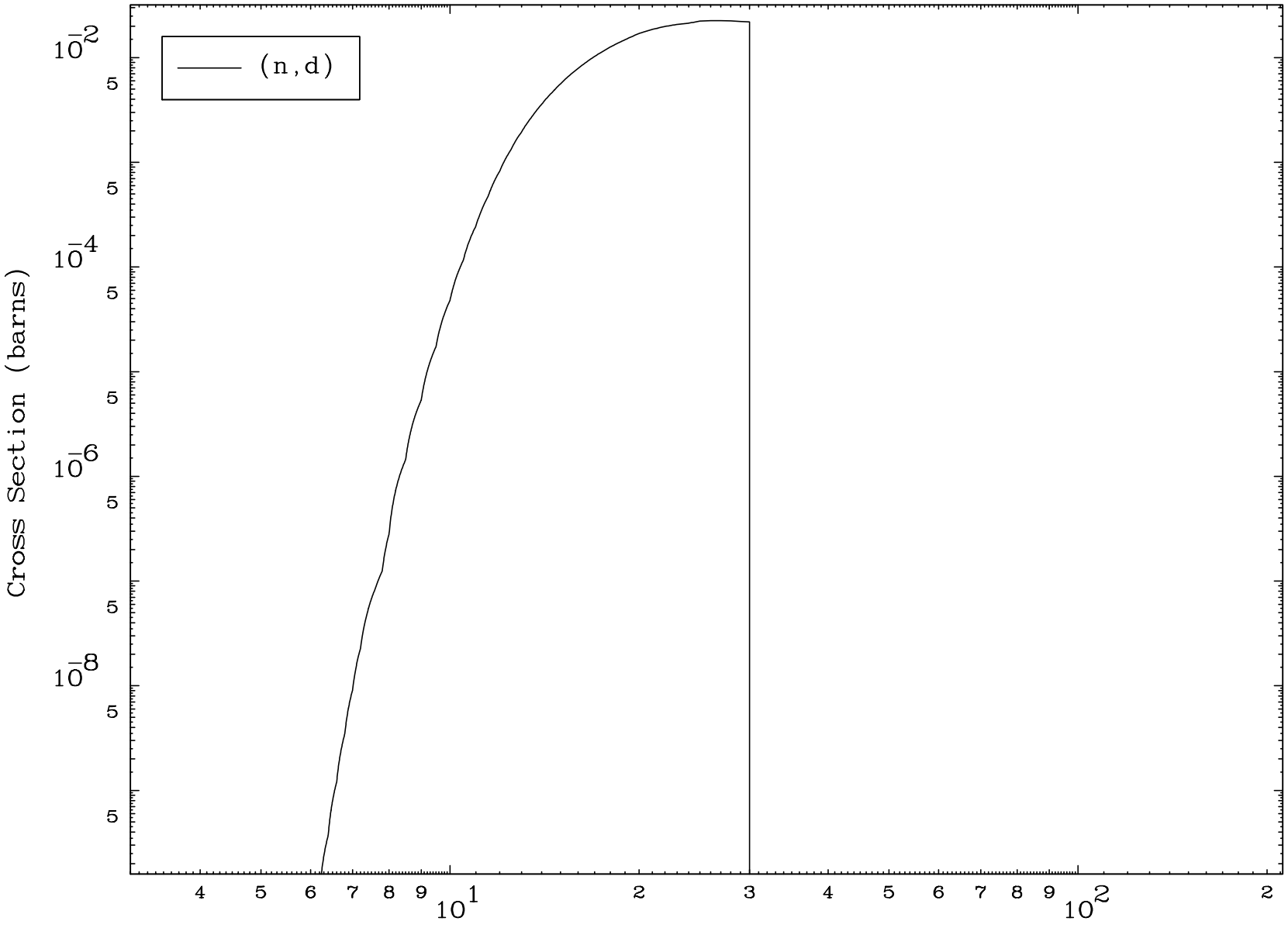

MAT 5316
(n,n') Level
293 Kelvin Cross Sections
53-I -124
Inelastic
MT= 51 (n,n') Level
MT= 52 (n,n') Level
MT= 53 (n,n') Level
MT= 54 (n,n') Level
MT= 55 (n,n') Level
MT= 56 (n,n') Level
MT= 57 (n,n') Level
MT= 58 (n,n') Level
MT= 59 (n,n') Level
MT= 60 (n,n') Level
Cross Section (barns)
Incident Energy (MeV)
7
53-I -124


MAT 5316
(n,n') Level
53-I -124
293 Kelvin Cross Sections
MT= 61 (n,n') Level
MT= 62 (n,n') Level
MT= 63 (n,n') Level
MT= 64 (n,n') Level
MT= 65 (n,n') Level
MT= 66 (n,n') Level
MT= 67 (n,n') Level
MT= 68 (n,n') Level
MT= 69 (n,n') Level
MT= 70 (n,n') Level
MT= 71 (n,n') Level
Cross Section (barns)
Incident Energy (MeV)
8
53-I -124

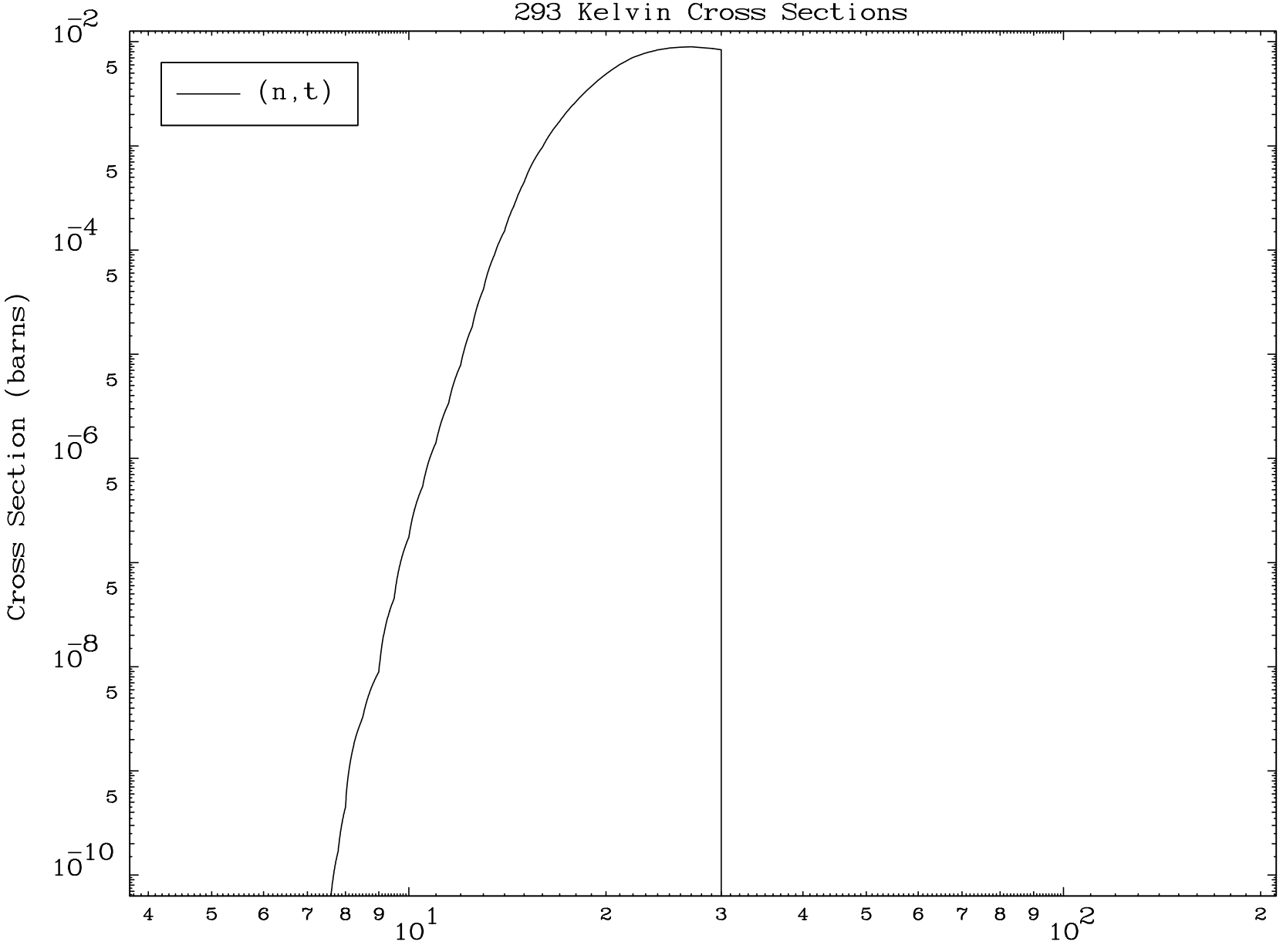

MAT 5316
(n,n') Level
53-I -124
293 Kelvin Cross Sections
MT= 72 (n,n') Level
MT= 73 (n,n') Level
MT= 74 (n,n') Level
MT= 75 (n,n') Level
MT= 76 (n,n') Level
MT= 77 (n,n') Level
MT= 78 (n,n') Level
MT= 79 (n,n') Level
MT= 80 (n,n') Level
(n,n') Continuum
Cross Section (barns)
10^4
10^2
10^0
10^-2
10^-4
10^-6
10^-8
4 6 8 10^0 2 4 6 8 10^1 2 4 6 8 10^2 2
Incident Energy (MeV)
9
53-I -124


MAT 5316
(n,p) Levels
53-I -124
293 Kelvin Cross Sections
Cross Section (barns)
10^1
5
10^0
5
10^-1
5
10^-2
5
(n,p)
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
10
Incident Energy (MeV)
53-I -124

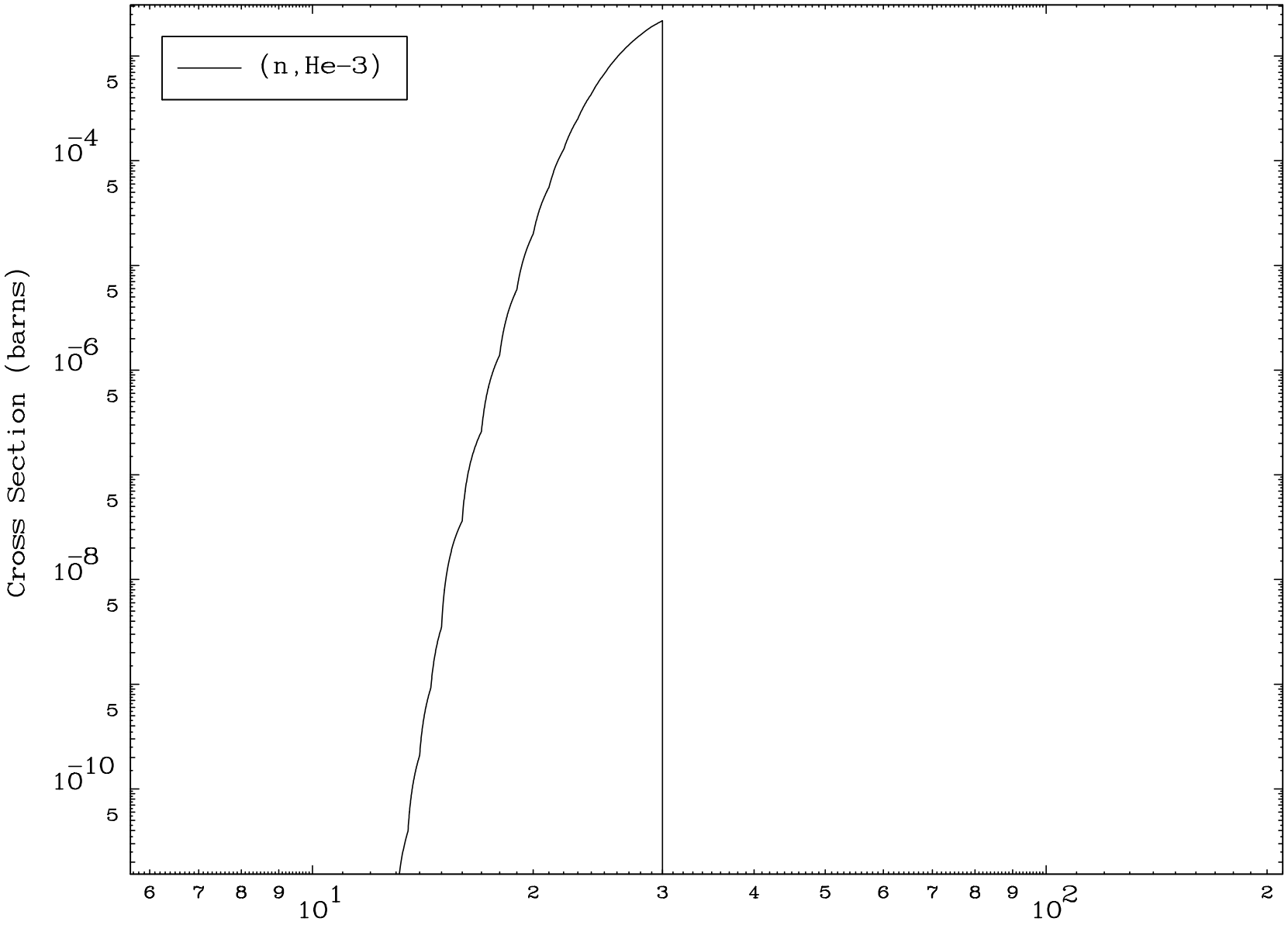
293 Kelvin Cross Sections



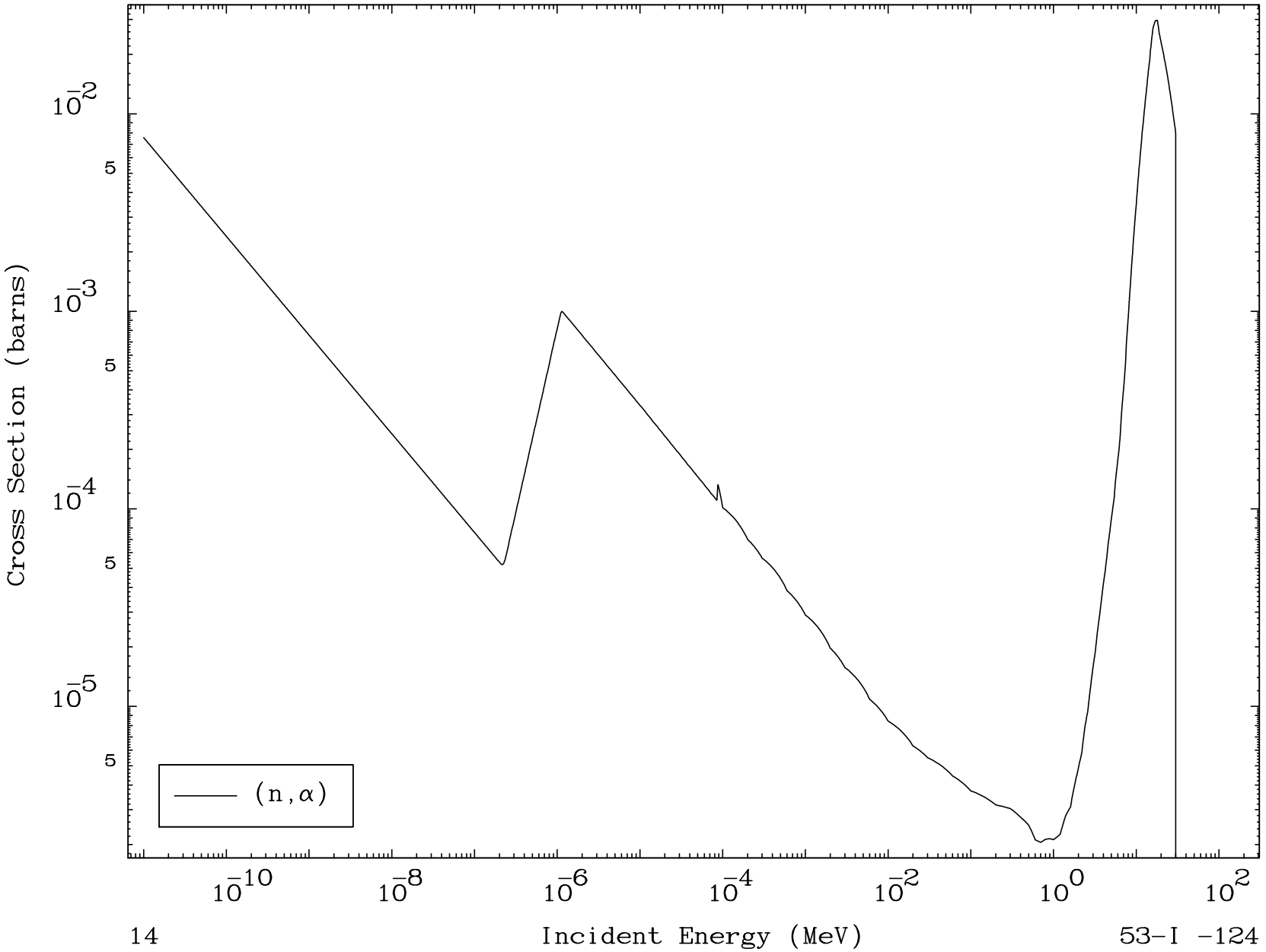
293 Kelvin Cross Sections

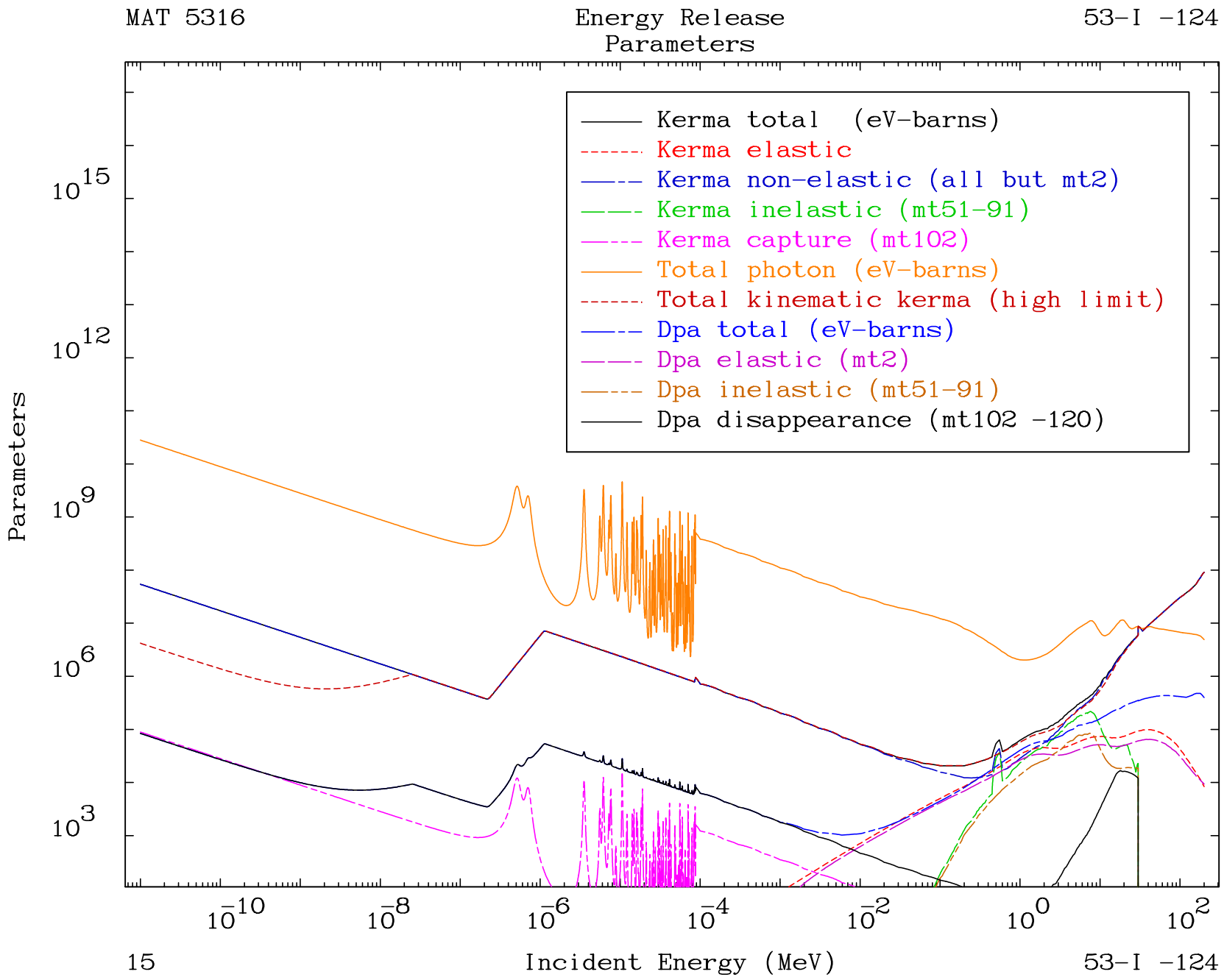


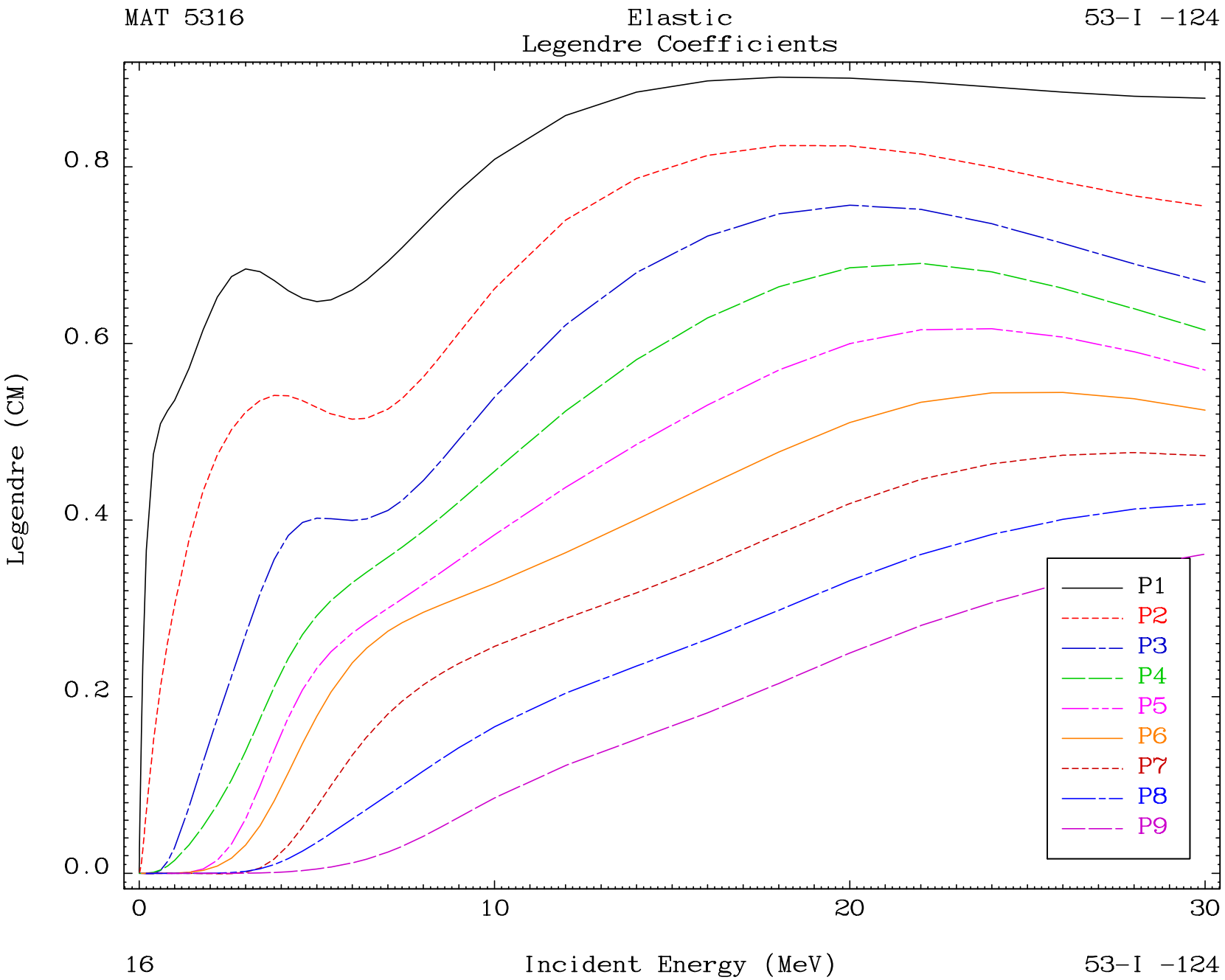
293 Kelvin Cross Sections

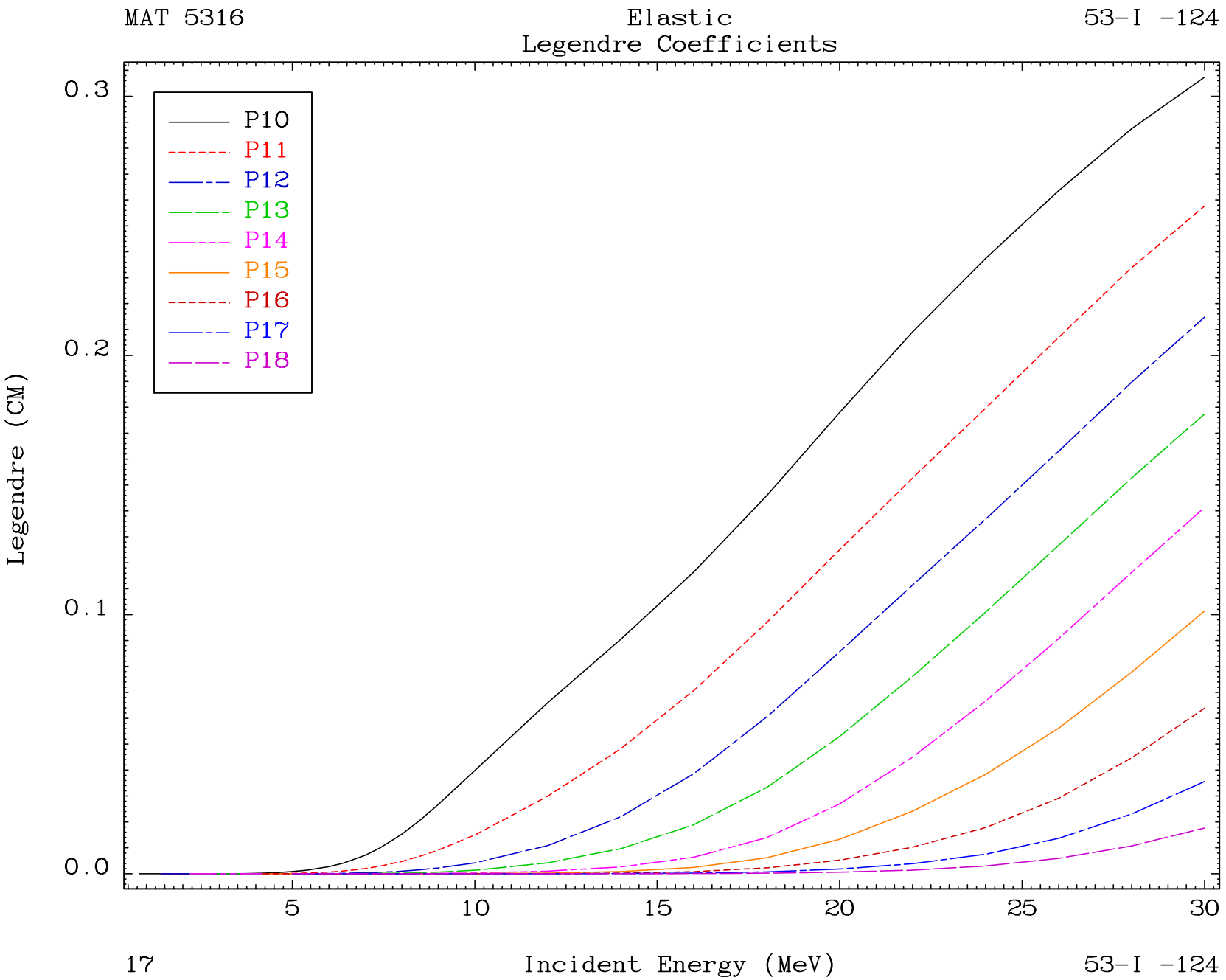


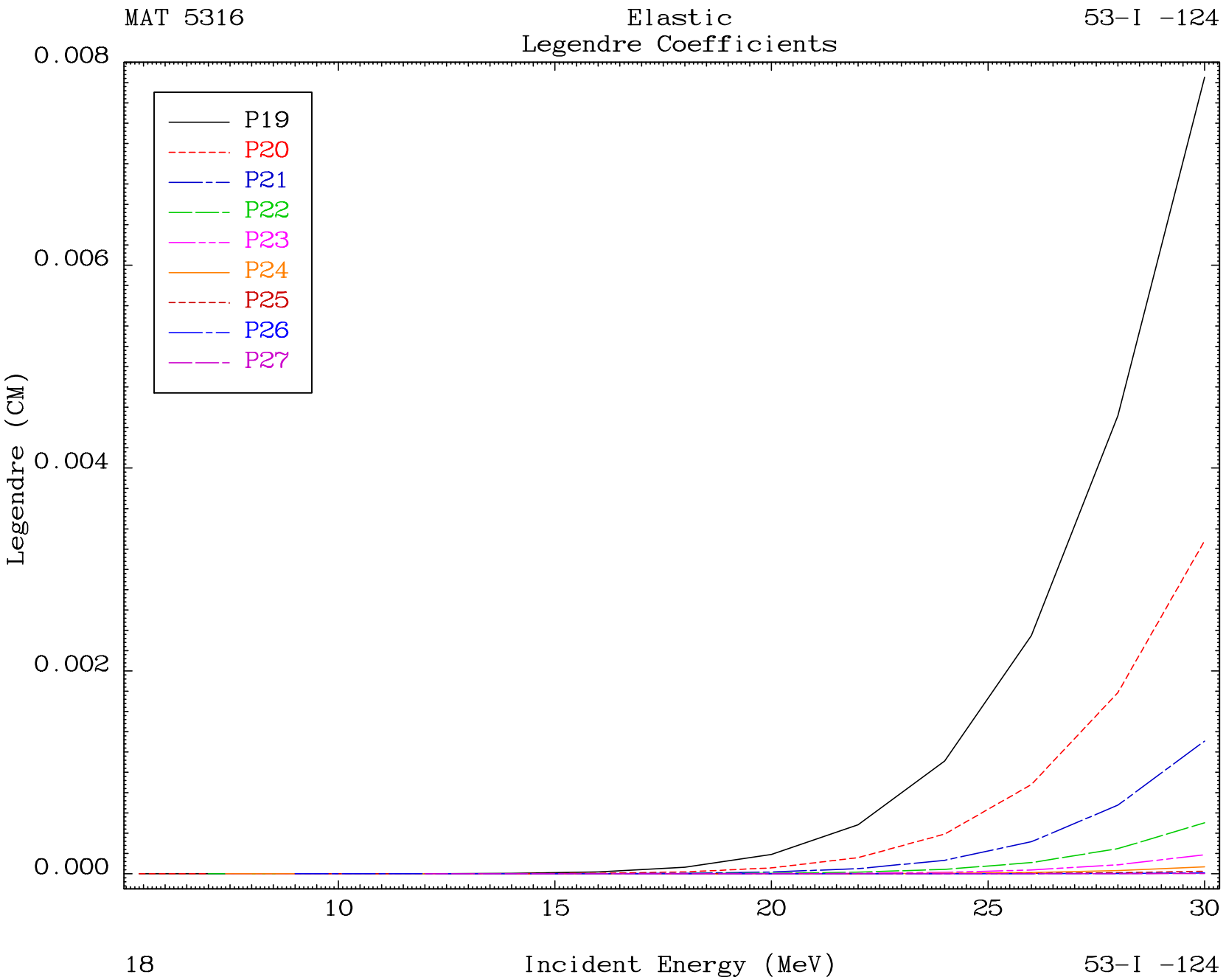
293 Kelvin Cross Sections

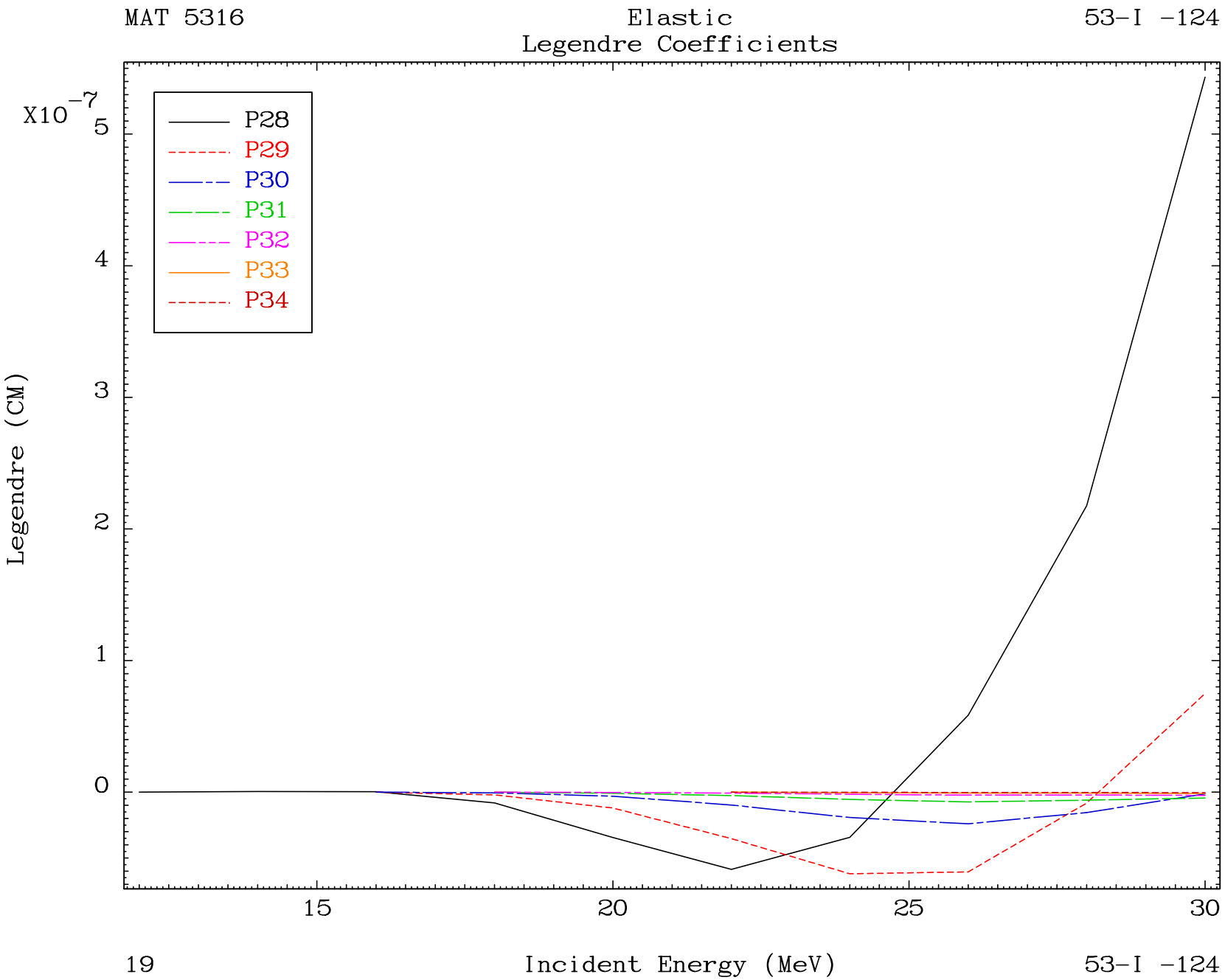


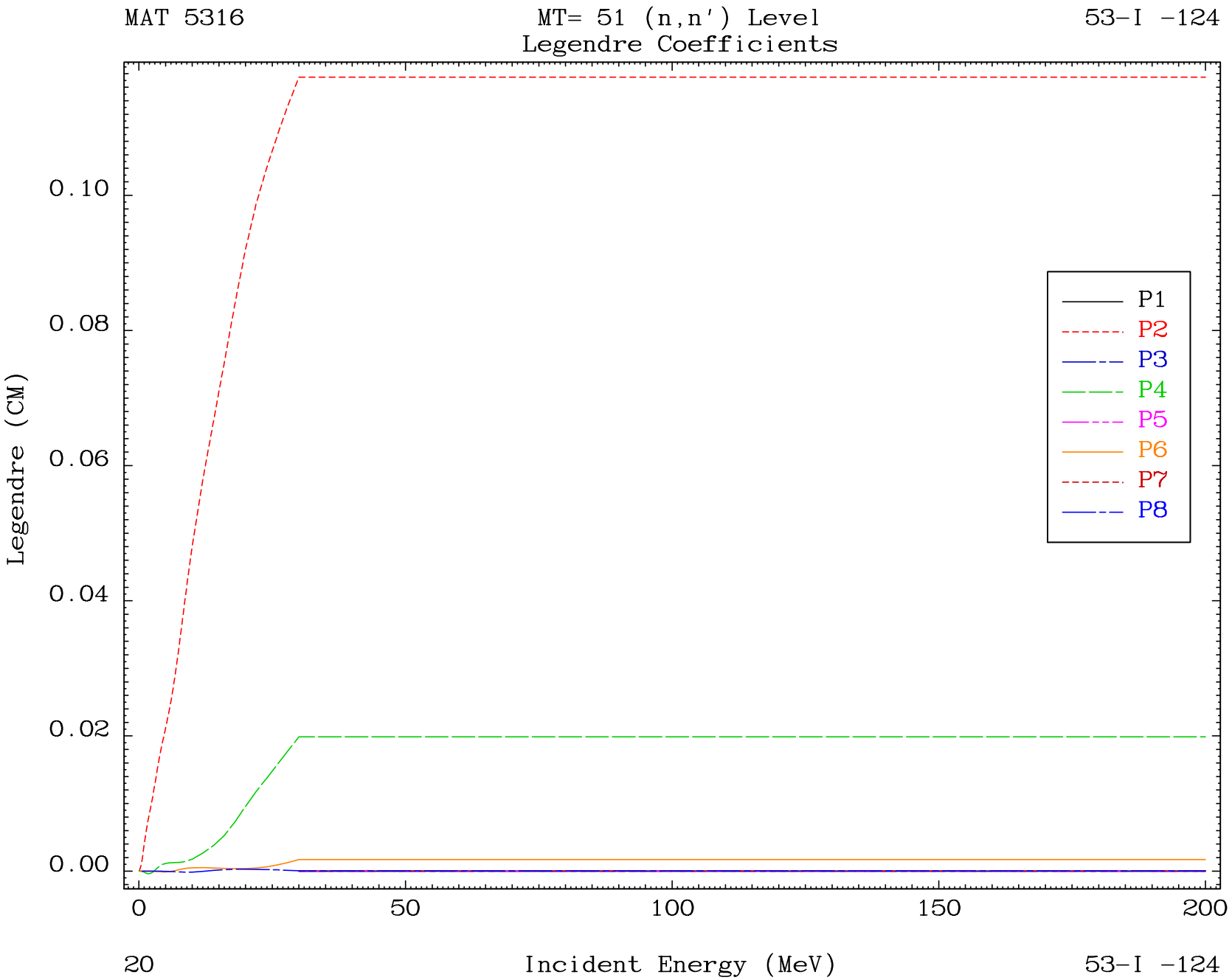

MAT 5316
Energy Release
Parameters
53-I -124
Kerma total (eV-barns)
Kerma elastic
Kerma non-elastic (all but mt2)
Kerma inelastic (mt51-91)
Kerma capture (mt102)
Total photon (eV-barns)
Total kinematic kerma (high limit)
Dpa total (eV-barns)
Dpa elastic (mt2)
Dpa inelastic (mt51-91)
Dpa disappearance (mt102 -120)
Parameters
10^{15}
10^{12}
10^{9}
10^{6}
10^{3}
10^{-10}
10^{-8}
10^{-6}
10^{-4}
10^{-2}
10^{0}
10^{2}
15
Incident Energy (MeV)
53-I -124

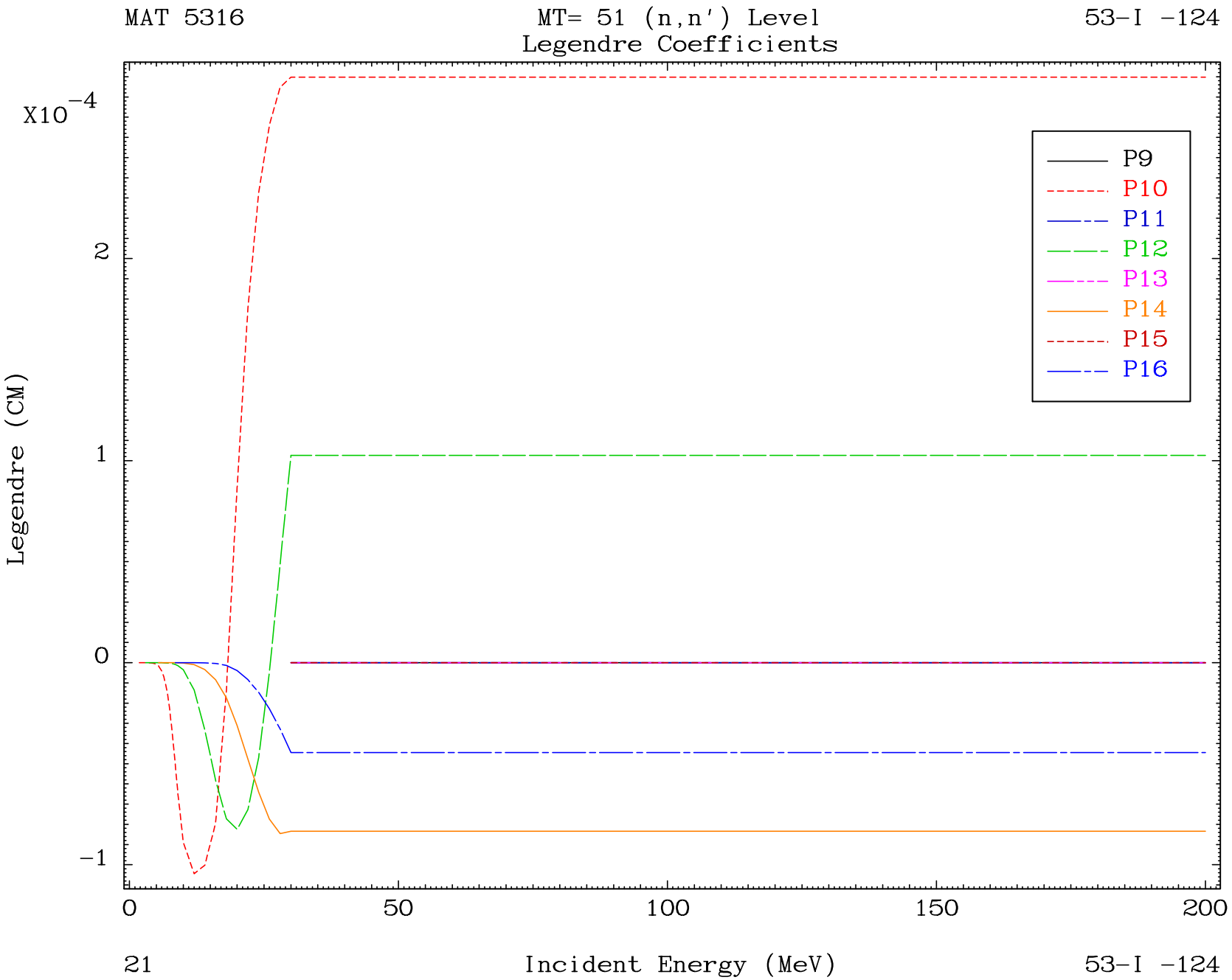

MAT 5316
Elastic
Legendre Coefficients
53-I -124
Legendre (CM)
0.0
0.2
0.4
0.6
0.8
0
10
20
30
16
Incident Energy (MeV)
53-I -124
P1
P2
P3
P4
P5
P6
P7
P8
P9

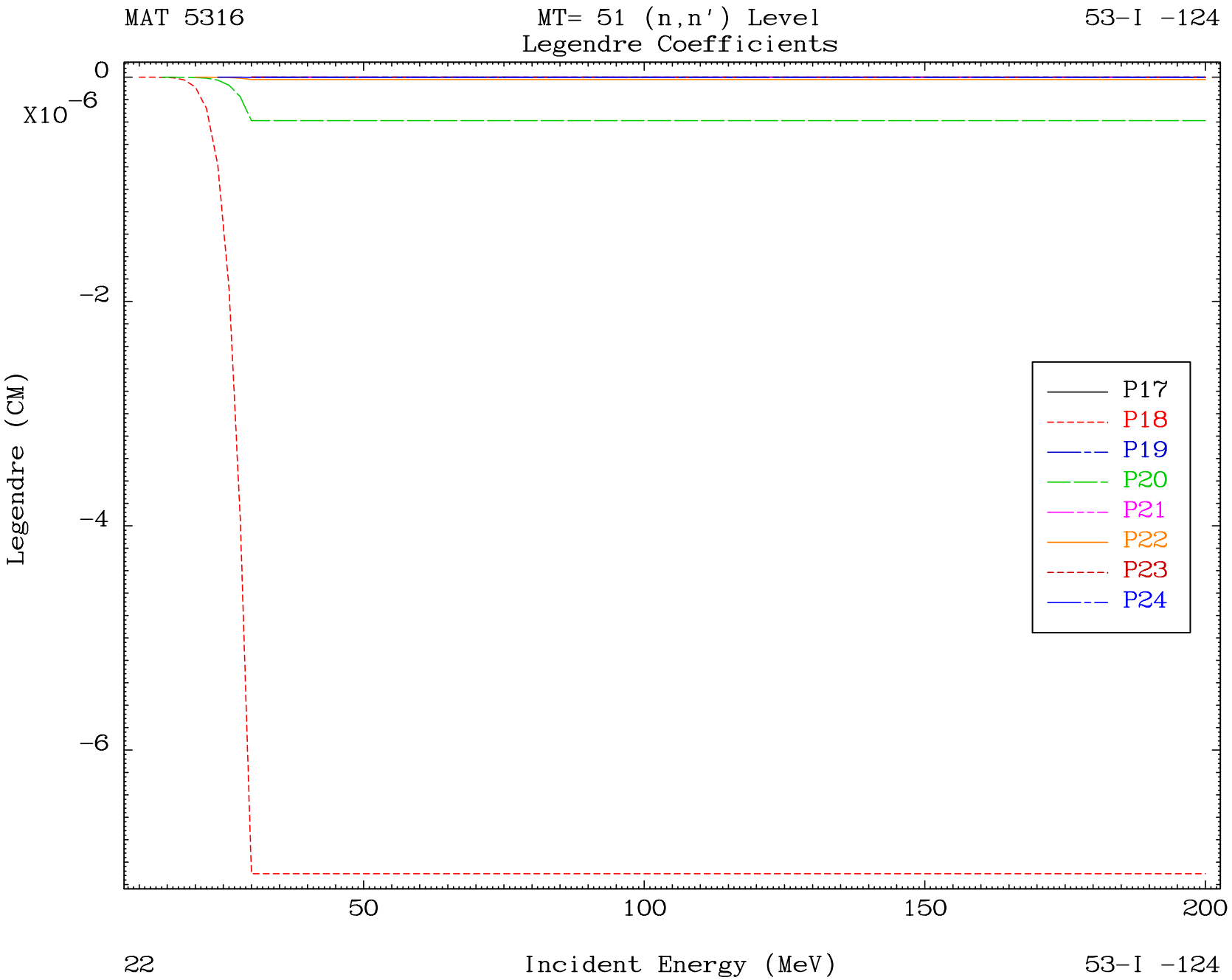

MAT 5316
Elastic
Legendre Coefficients
53-I -124
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.3
0.2
0.1
0.0
Legendre (CM)
5
10
15
20
25
30
17
Incident Energy (MeV)
53-I -124

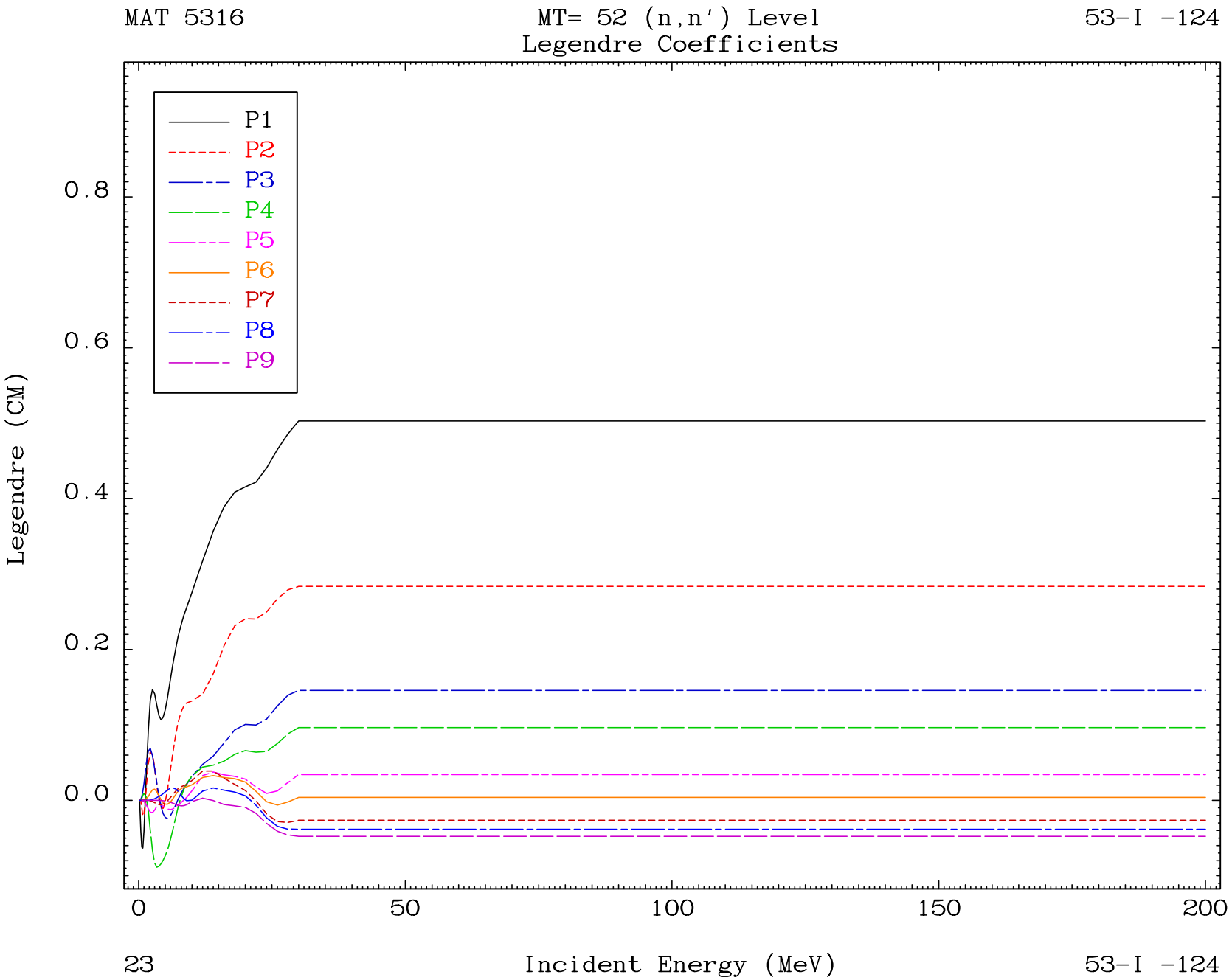

MAT 5316
Elastic
Legendre Coefficients
53-I -124
0.008
0.006
0.004
0.002
0.000
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
10
15
20
25
30
18
Incident Energy (MeV)
53-I -124

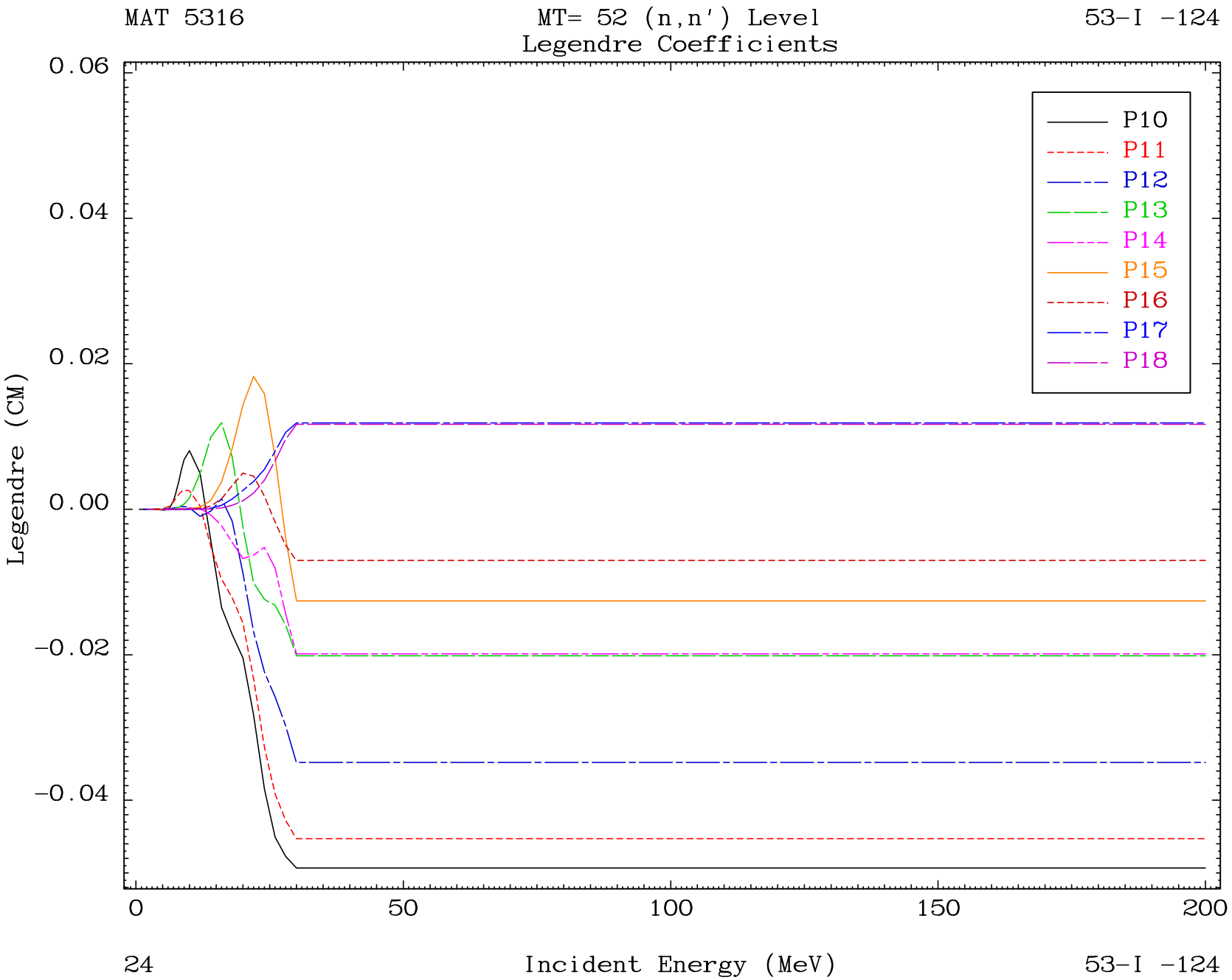

MAT 5316
Elastic
Legendre Coefficients
53-I -124
X10-7
5
4
3
2
1
0
P28
P29
P30
P31
P32
P33
P34
Legendre (CM)
15
20
25
30
19
Incident Energy (MeV)
53-I -124

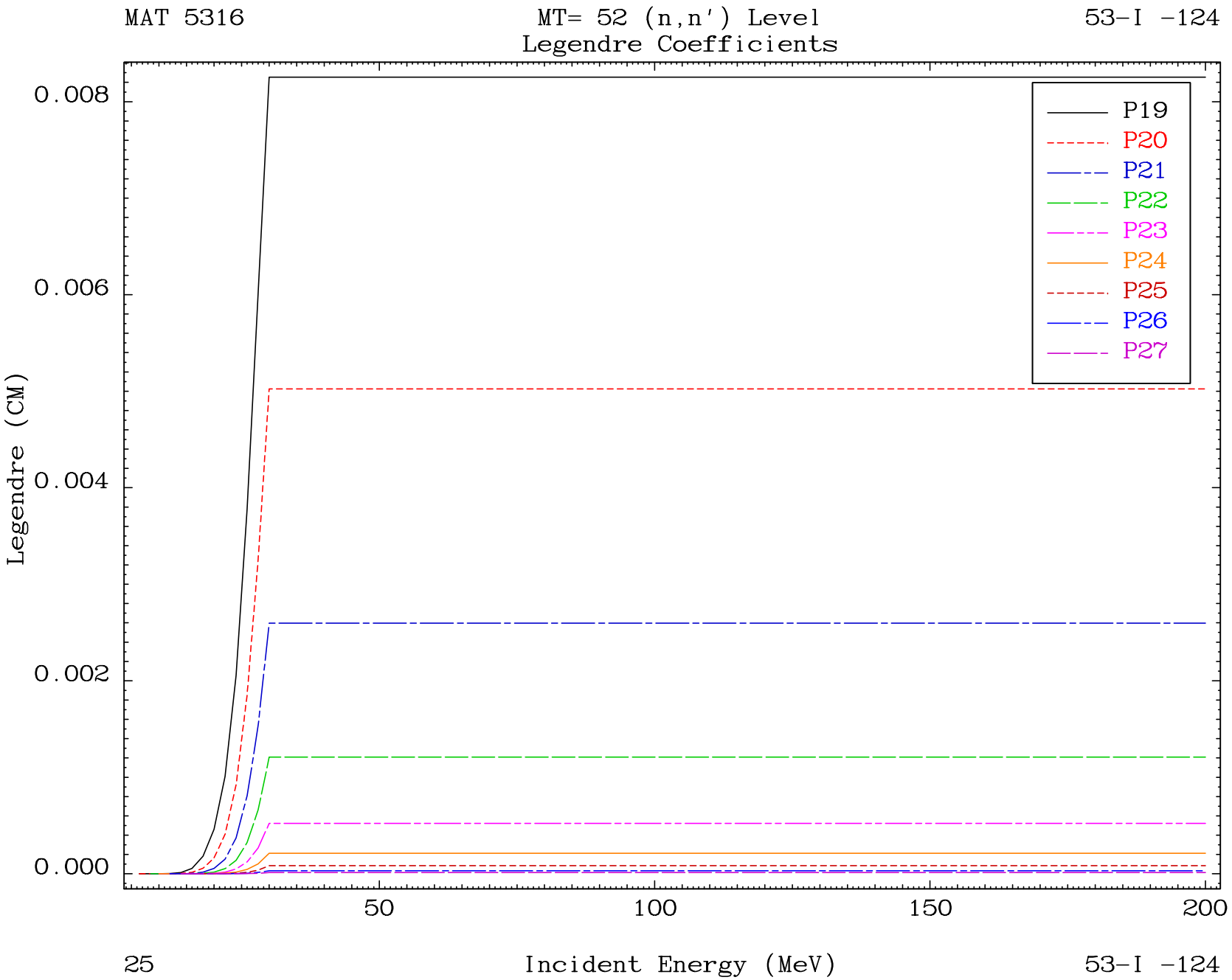

MAT 5316
MT= 51 (n,n') Level
Legendre Coefficients
53-I -124
0.10
0.08
0.06
0.04
0.02
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
0
50
100
150
200
20
Incident Energy (MeV)
53-I -124

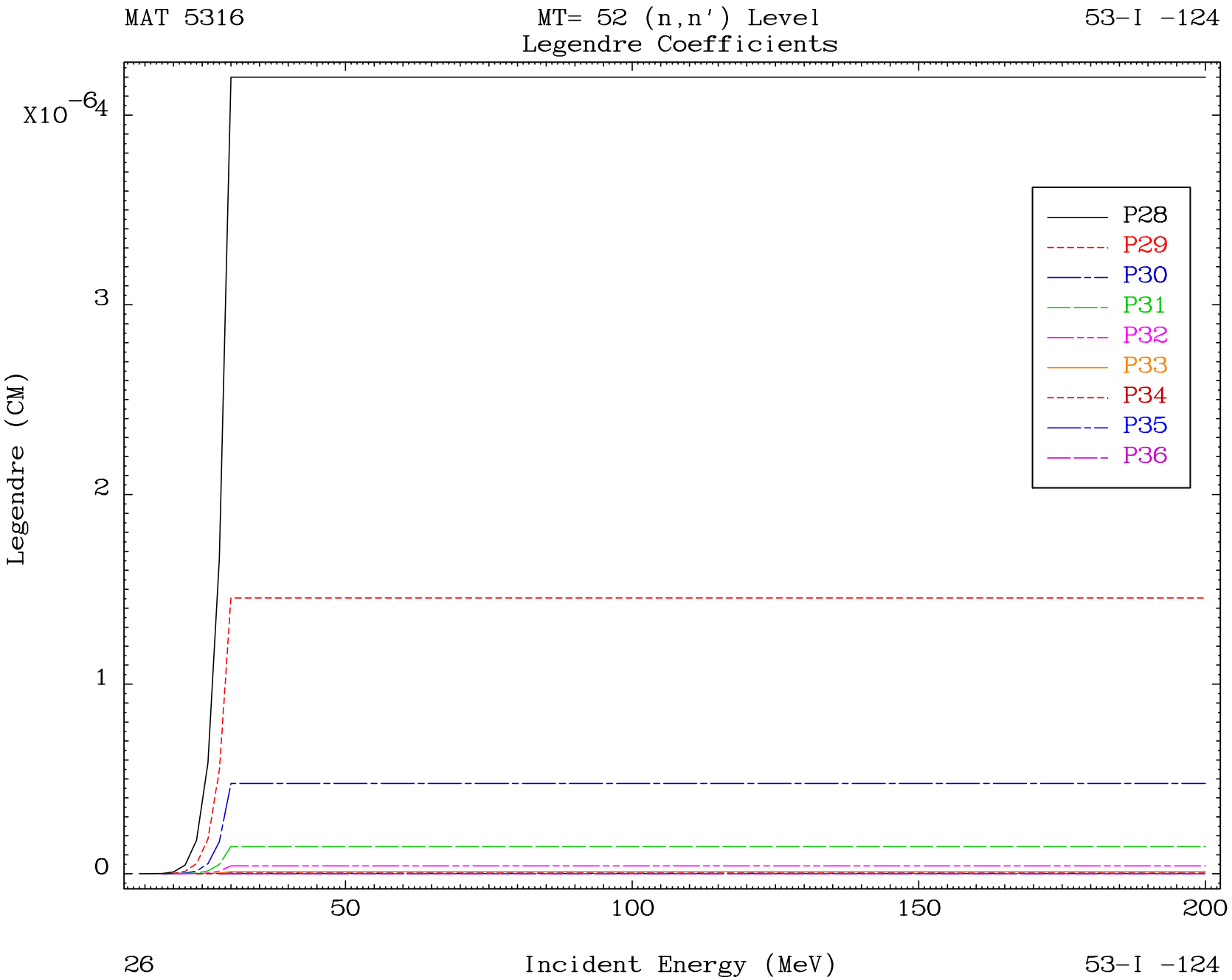

MAT 5316
MT= 51 (n,n') Level
Legendre Coefficients
53-I -124
X10-4
2
1
0
-1
Legendre (CM)
P9
P10
P11
P12
P13
P14
P15
P16
0
50
100
150
200
21
Incident Energy (MeV)
53-I -124

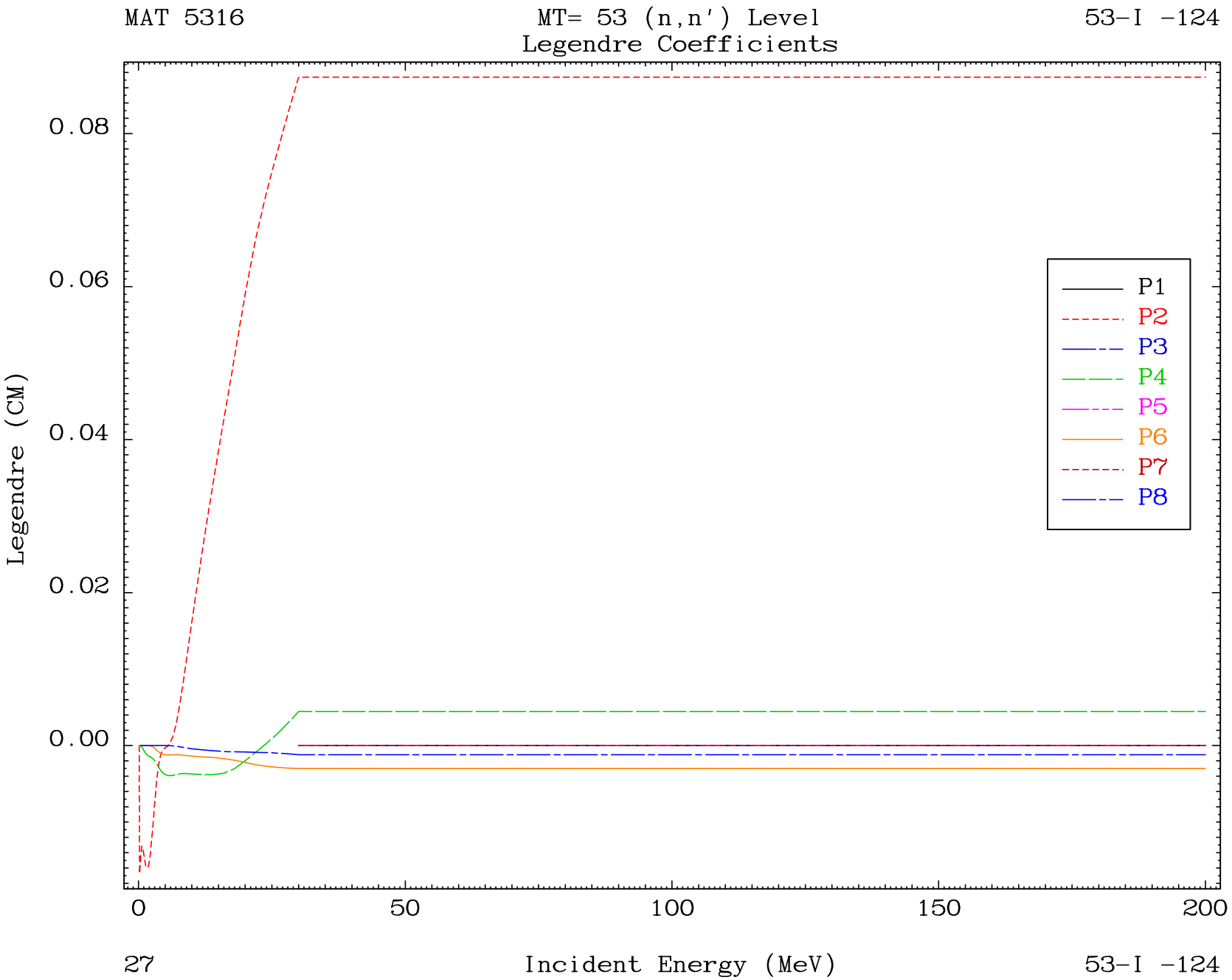

MAT 5316
MT= 51 (n,n') Level
Legendre Coefficients
53-I -124
0
X10^-6
-2
-4
-6
Legendre (CM)
P17
P18
P19
P20
P21
P22
P23
P24
50
100
150
200
22
Incident Energy (MeV)
53-I -124

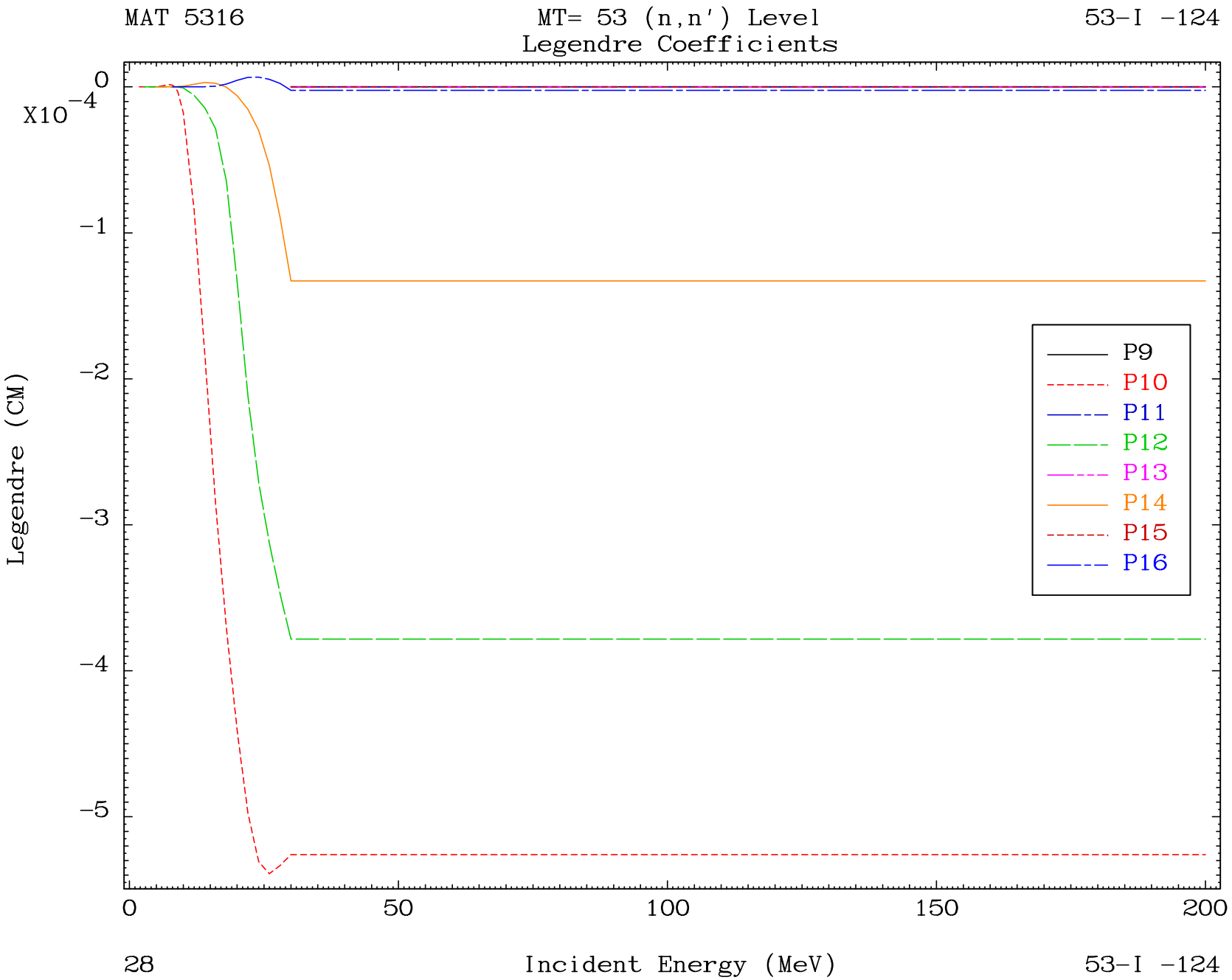

MAT 5316
MT= 52 (n,n') Level
Legendre Coefficients
53-I -124
P1
P2
P3
P4
P5
P6
P7
P8
P9
Legendre (CM)
0.8
0.6
0.4
0.2
0.0
0
50
100
150
200
23
Incident Energy (MeV)
53-I -124

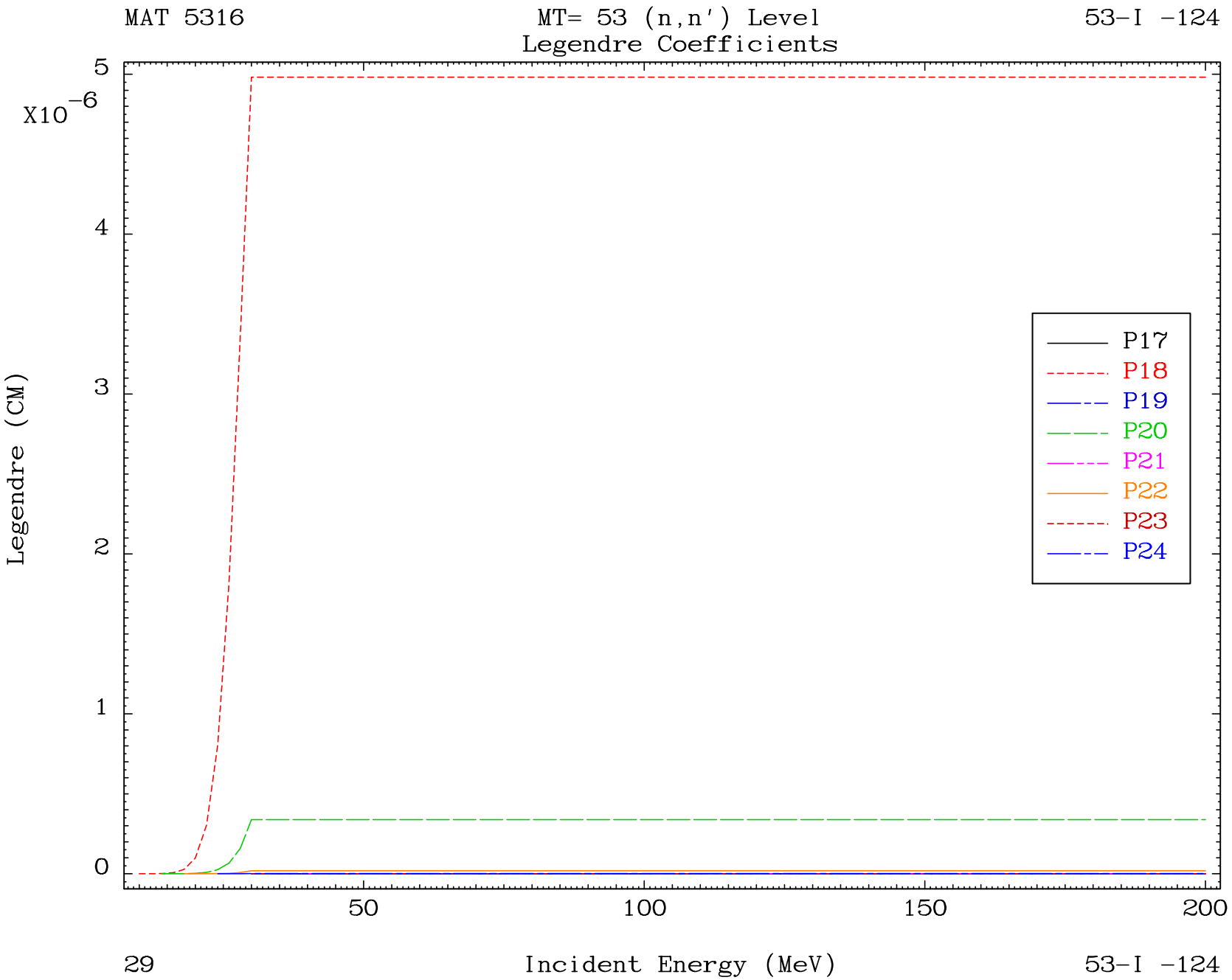

MAT 5316
MT= 52 (n,n') Level
Legendre Coefficients
53-I -124
0.06
0.04
0.02
0.00
-0.02
-0.04
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
24
Incident Energy (MeV)
53-I -124

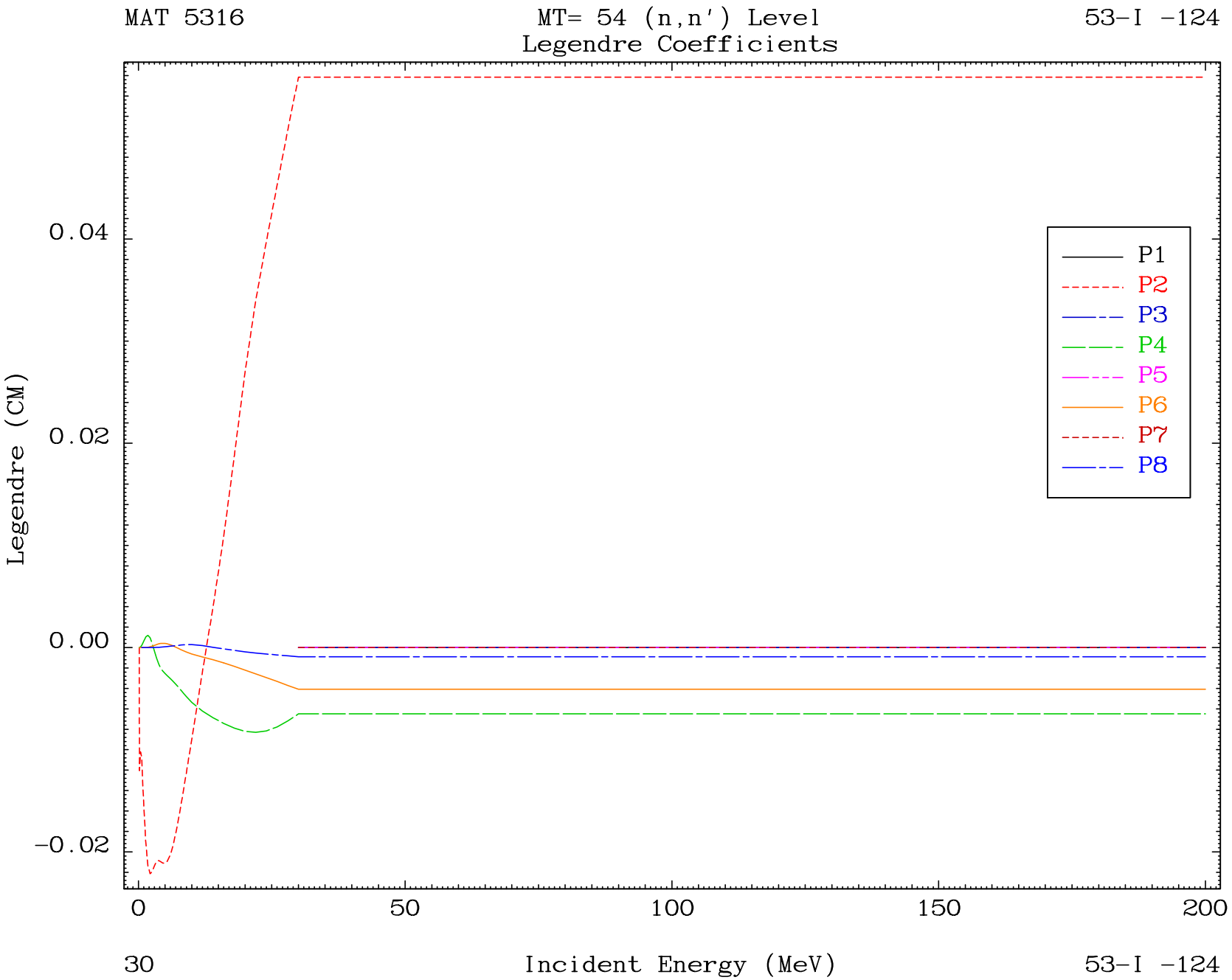

MAT 5316
MT= 52 (n,n') Level
Legendre Coefficients
53-I -124
0.008
0.006
0.004
0.002
0.000
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
25
Incident Energy (MeV)
53-I -124

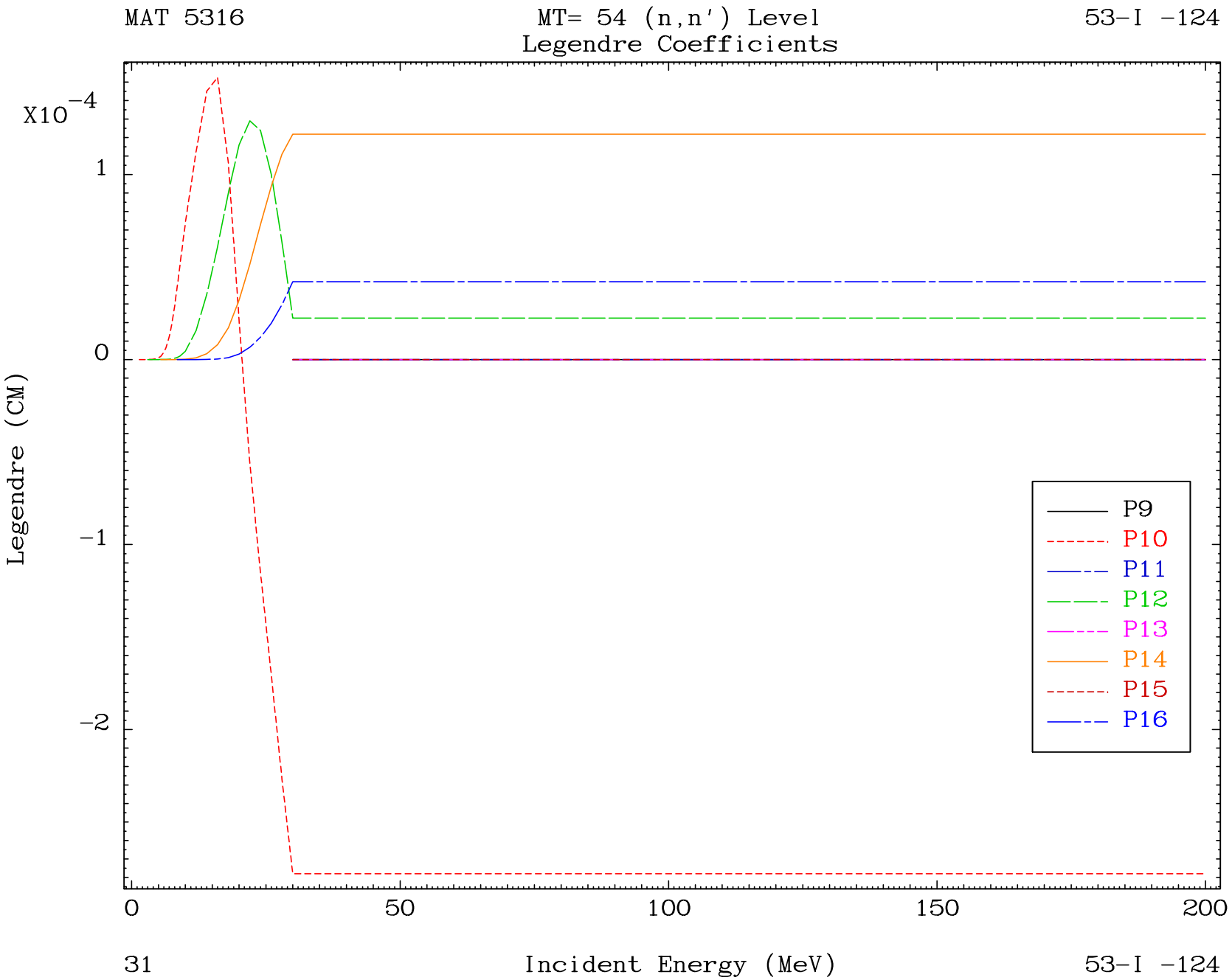

MAT 5316
MT= 52 (n,n') Level
Legendre Coefficients
53-I -124
X10^-6
4
3
2
1
0
Legendre (CM)
50
100
150
200
26
Incident Energy (MeV)
53-I -124
P28
P29
P30
P31
P32
P33
P34
P35
P36

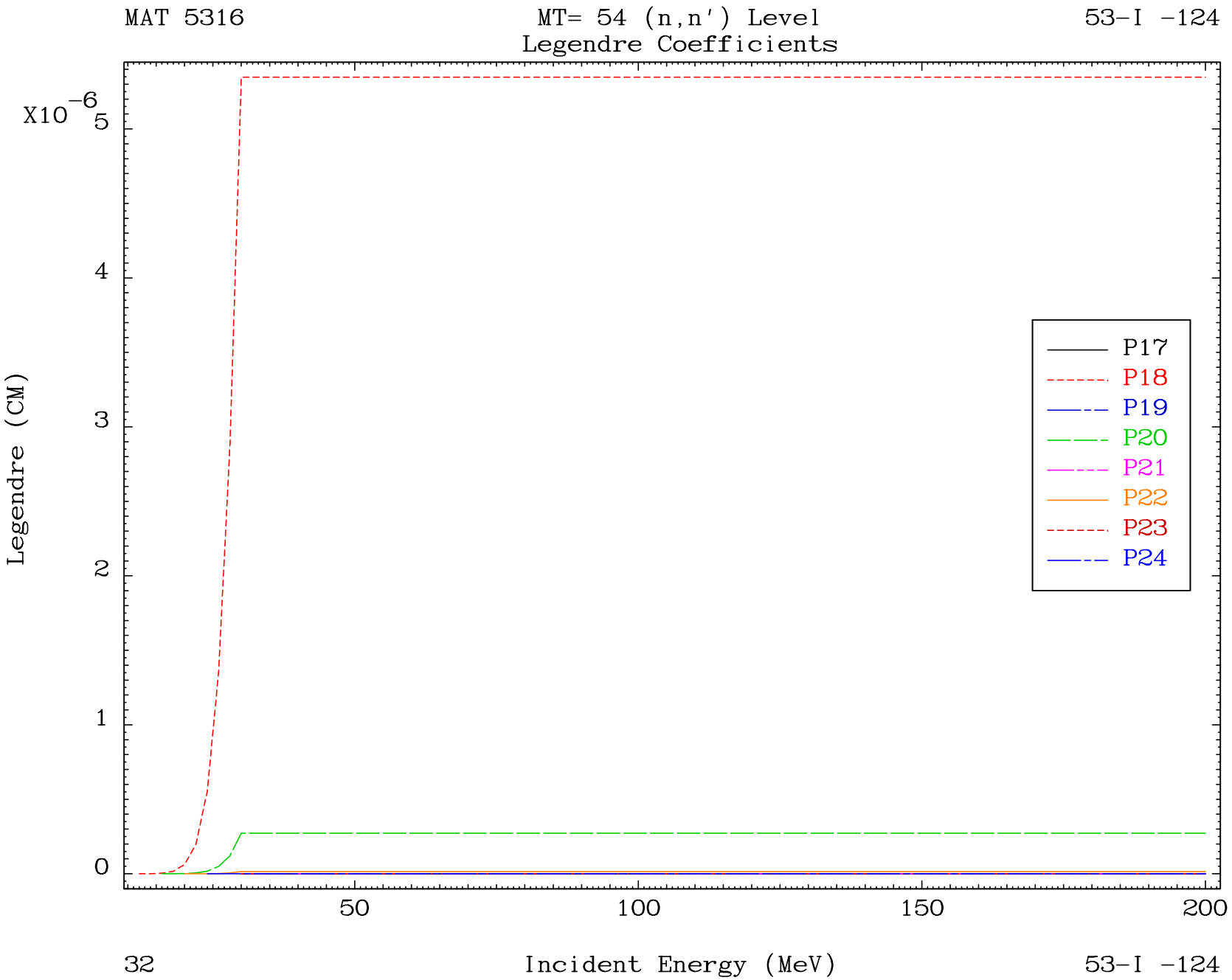

MAT 5316
MT= 53 (n,n') Level
Legendre Coefficients
53-I -124
0.08
0.06
0.04
0.02
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
0
50
100
150
200
27
Incident Energy (MeV)
53-I -124

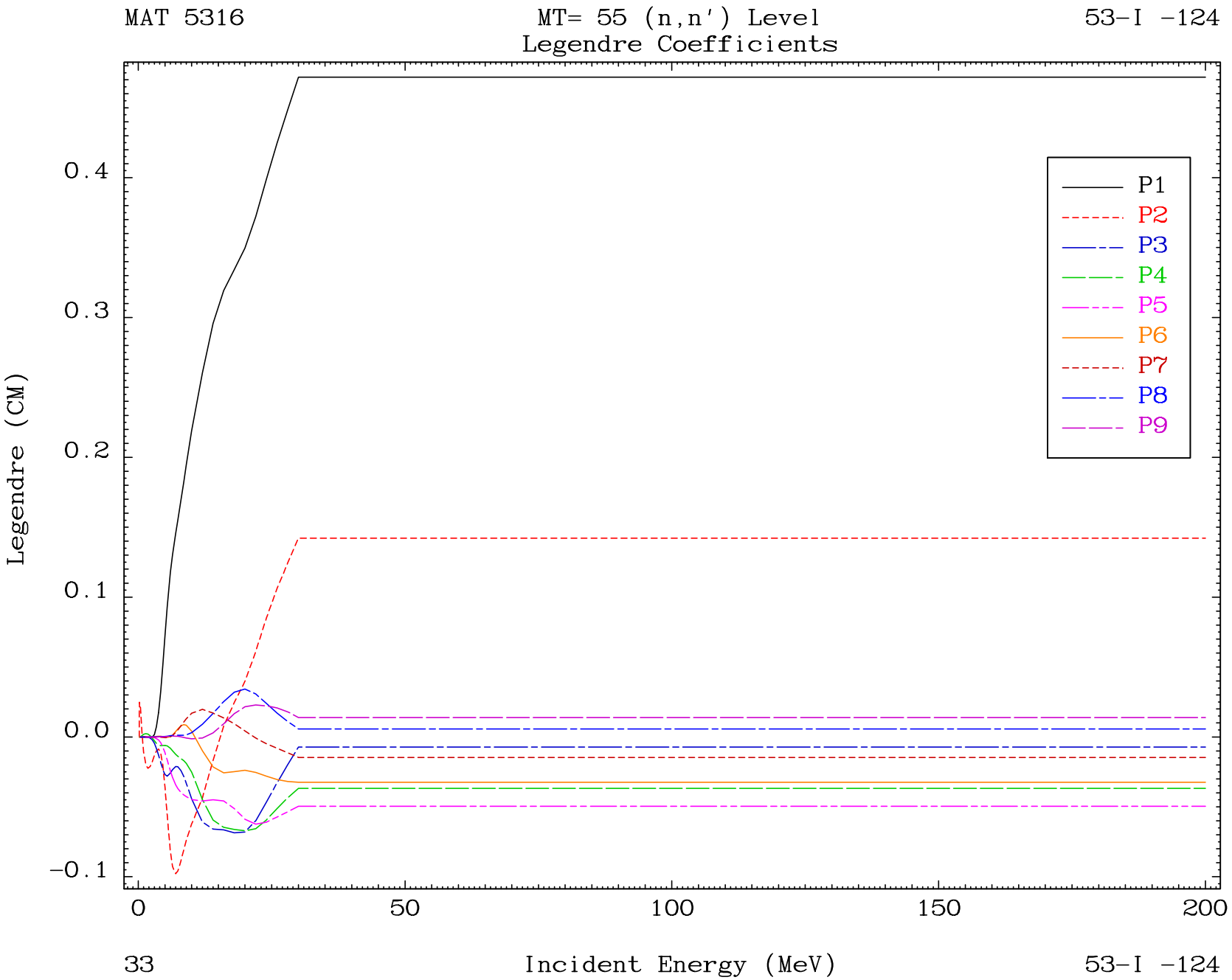

MAT 5316
MT= 53 (n,n') Level
Legendre Coefficients
53-I -124
X10^-4
0
-1
-2
-3
-4
-5
Legendre (CM)
P9
P10
P11
P12
P13
P14
P15
P16
0
50
100
150
200
28
Incident Energy (MeV)
53-I -124

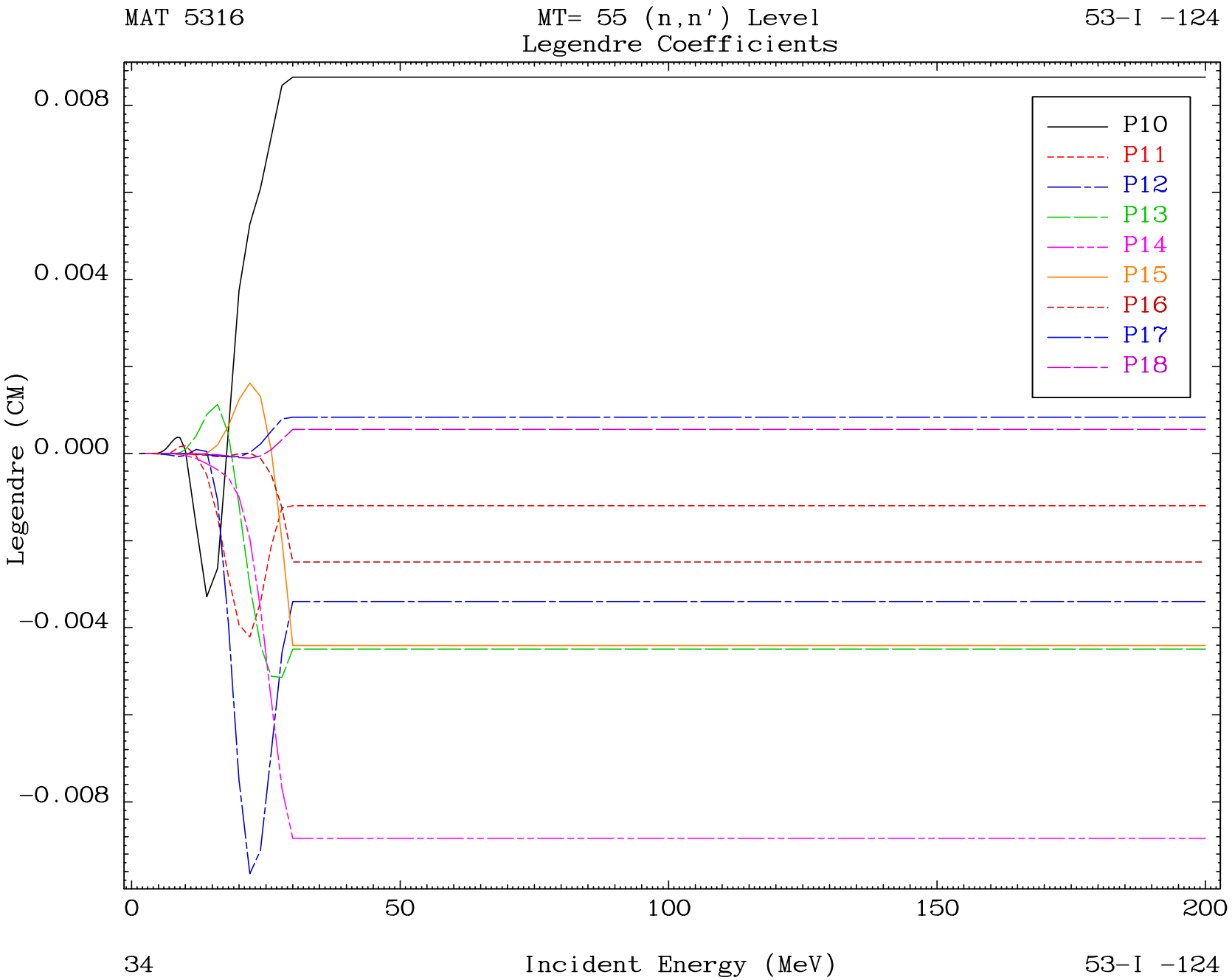

MAT 5316
MT= 53 (n,n') Level
Legendre Coefficients
53-I -124
X10^-6
5
4
3
2
1
0
Legendre (CM)
50
100
150
200
P17
P18
P19
P20
P21
P22
P23
P24
29
Incident Energy (MeV)
53-I -124

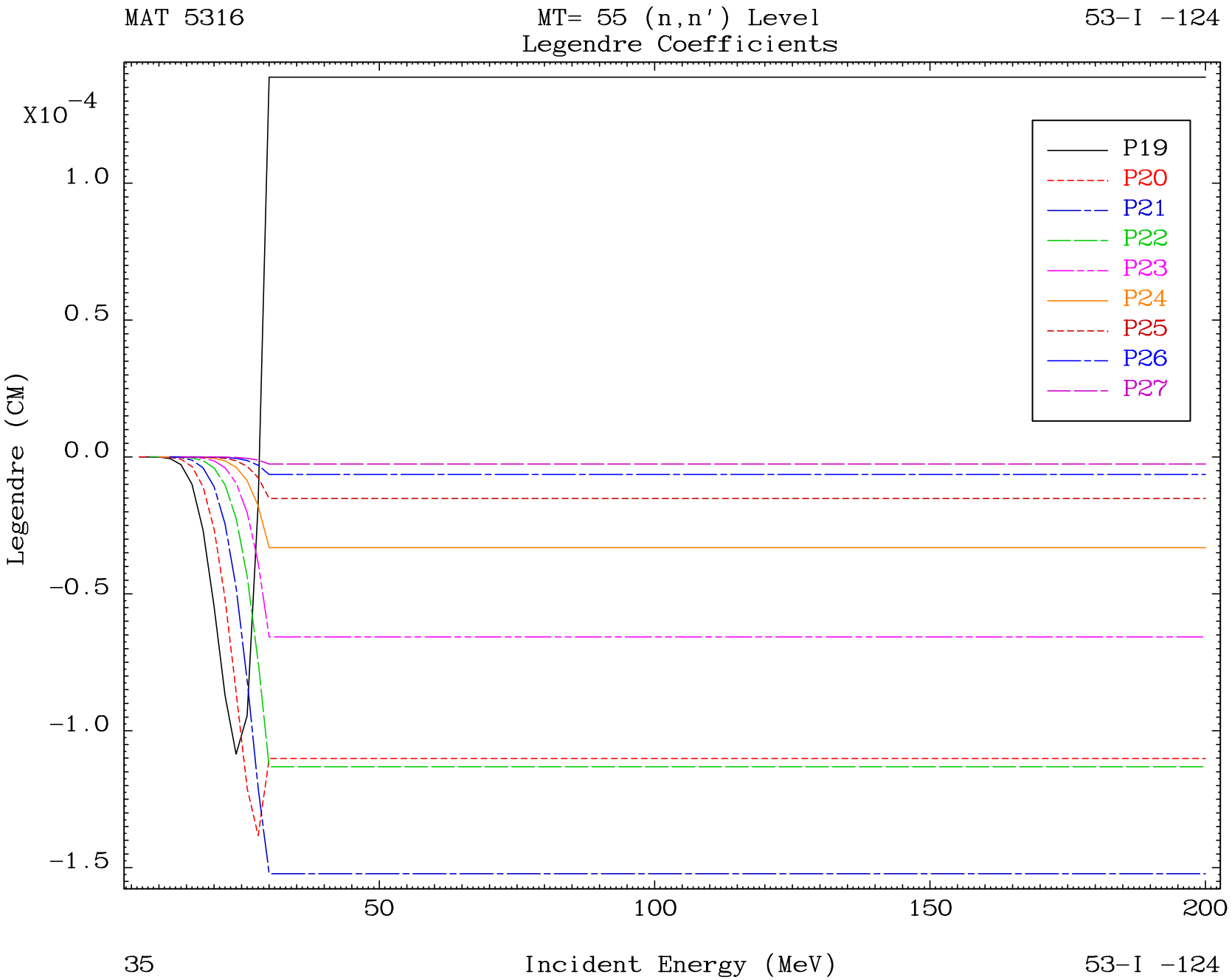

MAT 5316
MT= 54 (n,n') Level
Legendre Coefficients
53-I -124
0.04
0.02
0.00
-0.02
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
0
50
100
150
200
30
Incident Energy (MeV)
53-I -124

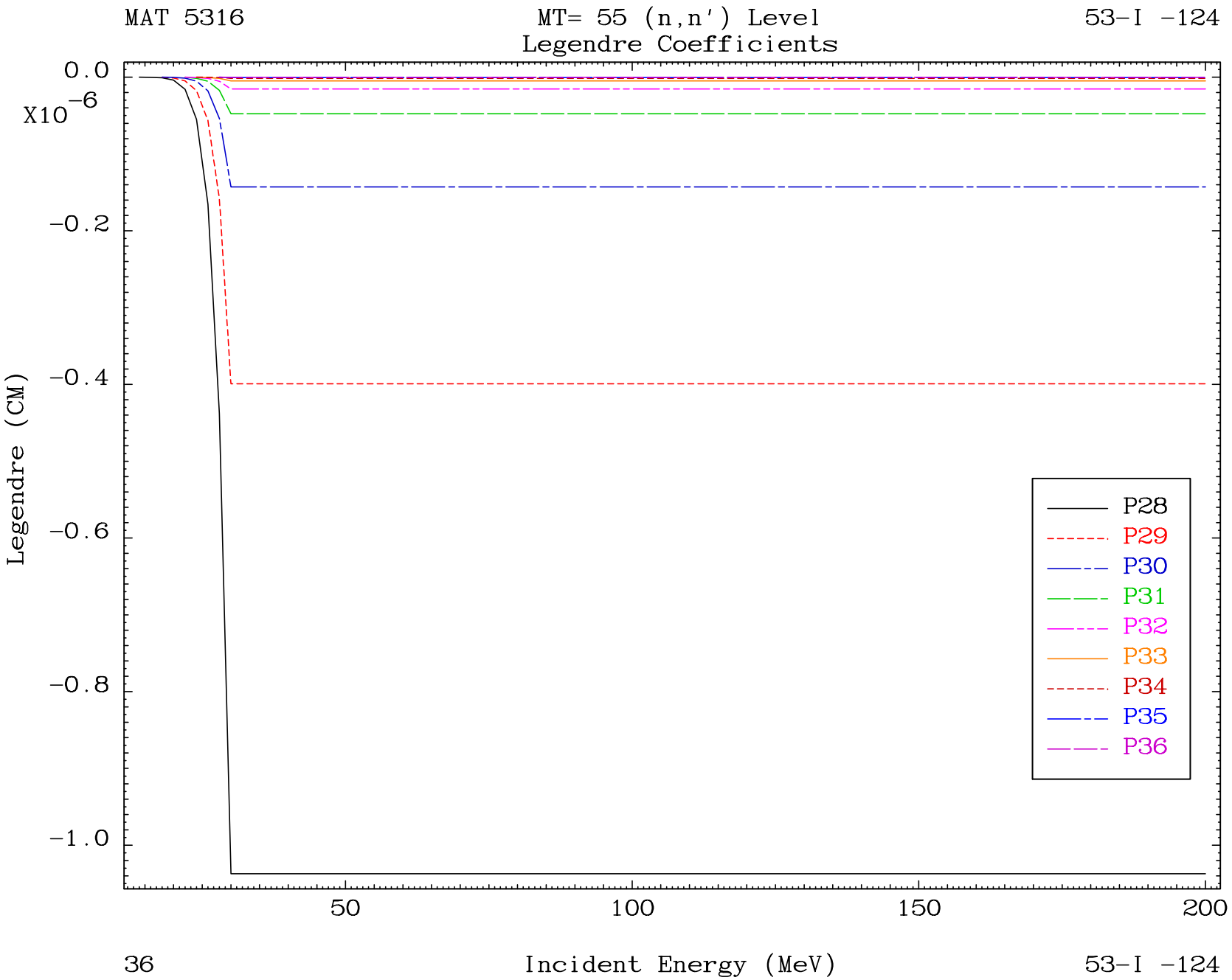

MAT 5316
MT= 54 (n,n') Level
Legendre Coefficients
53-I -124
X10^-4
1
0
-1
-2
Legendre (CM)
0
50
100
150
200
31
Incident Energy (MeV)
53-I -124
P9
P10
P11
P12
P13
P14
P15
P16

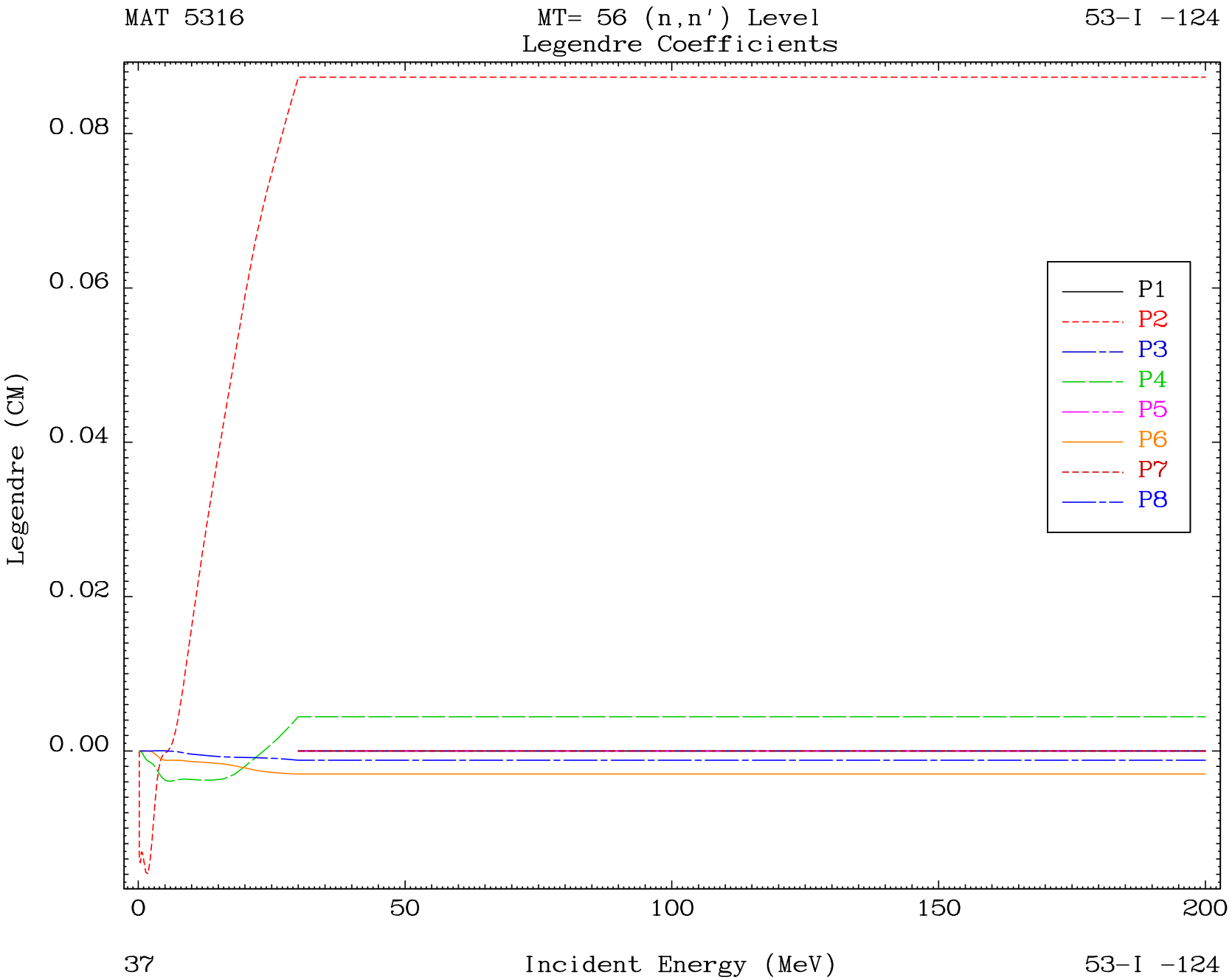

MAT 5316
MT= 54 (n,n') Level
Legendre Coefficients
53-I -124
X10 -6
5
4
3
2
1
0
Legendre (CM)
P17
P18
P19
P20
P21
P22
P23
P24
50
100
150
200
32
Incident Energy (MeV)
53-I -124

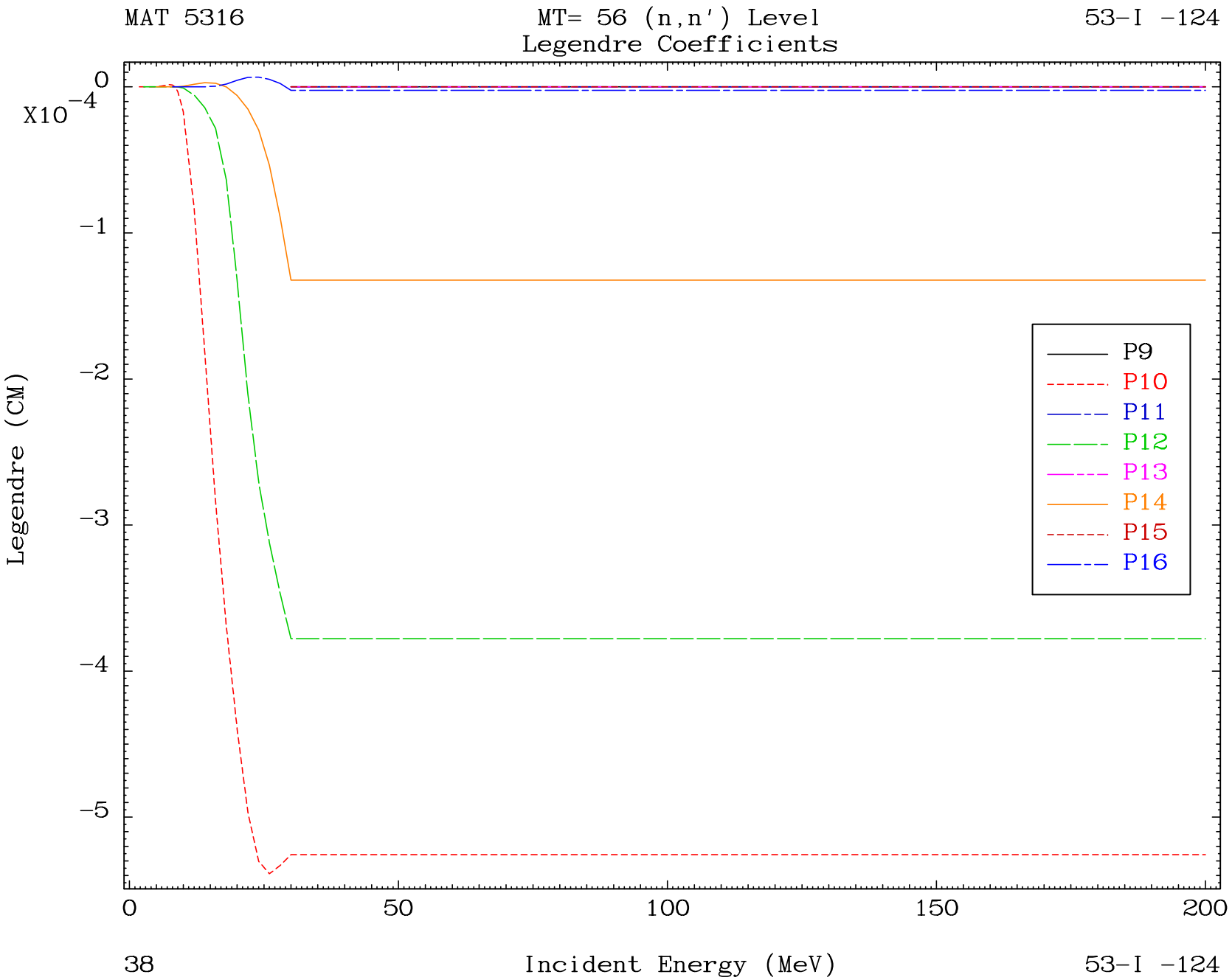

MAT 5316
MT= 55 (n,n') Level
Legendre Coefficients
53-I -124
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
-0.1
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
33
Incident Energy (MeV)
53-I -124

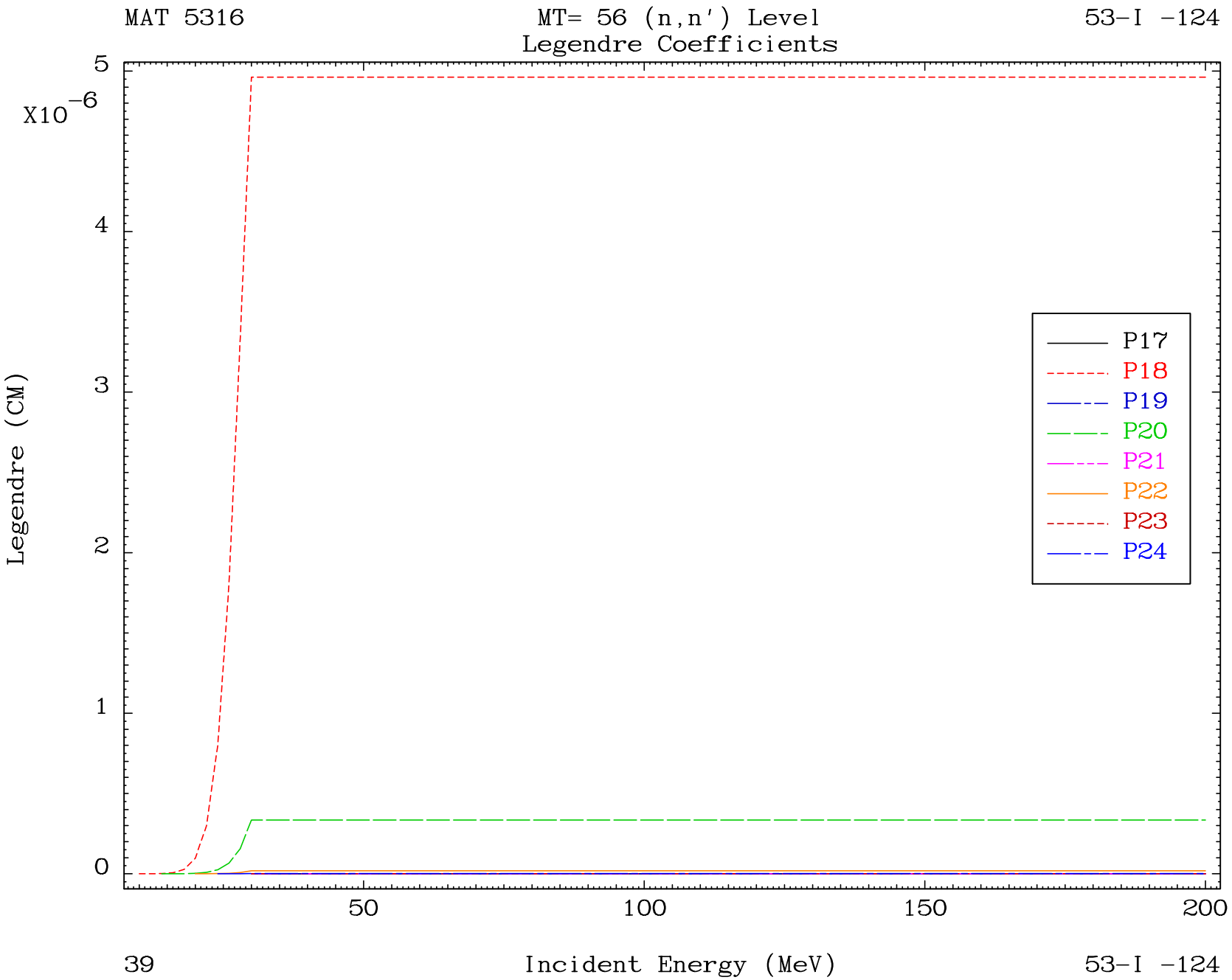

MAT 5316
MT= 55 (n,n') Level
Legendre Coefficients
53-I -124
0.008
0.004
0.000
-0.004
-0.008
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
34
Incident Energy (MeV)
53-I -124

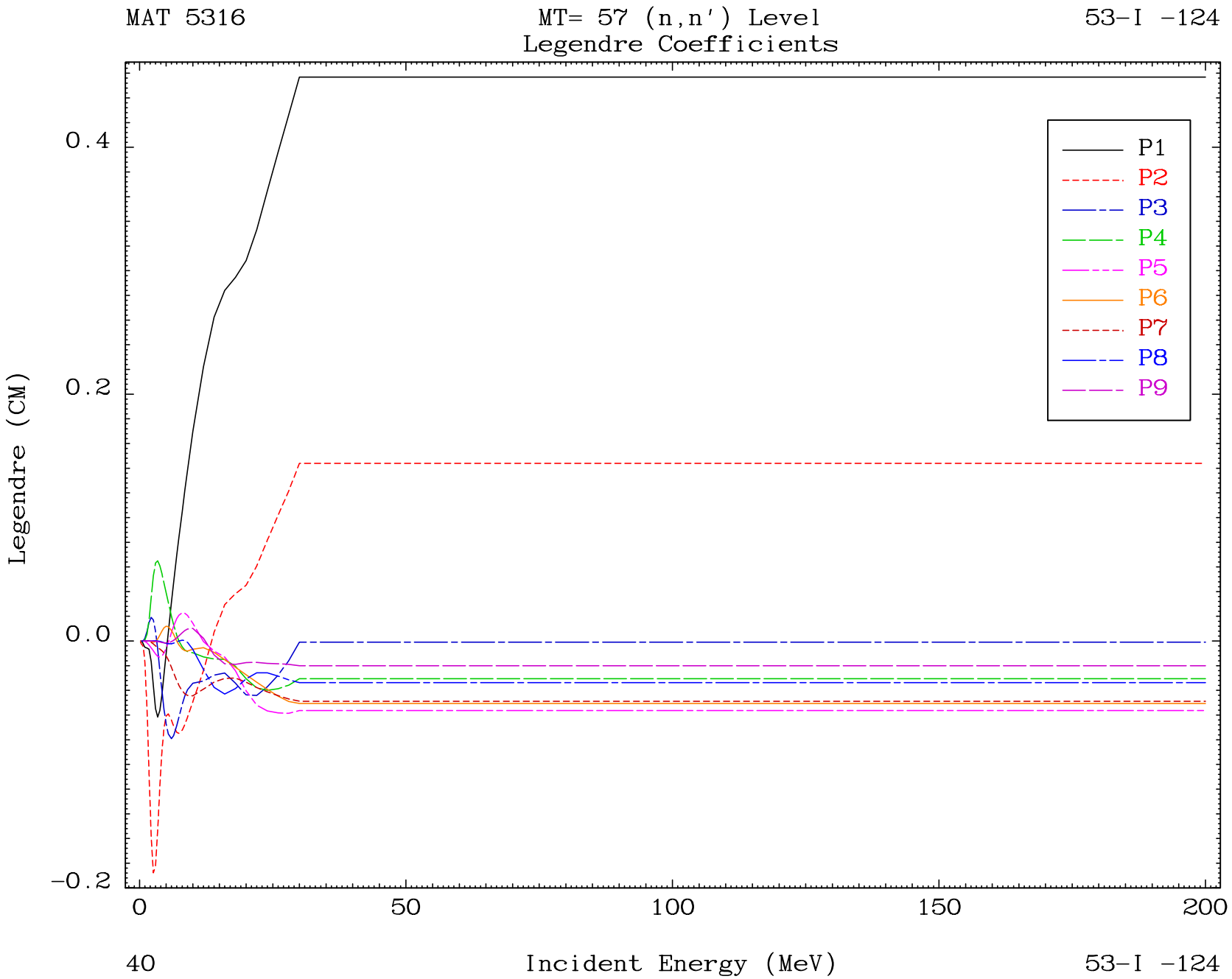

MAT 5316
MT= 55 (n,n') Level
Legendre Coefficients
53-I -124
X10^-4
1.0
0.5
0.0
-0.5
-1.0
-1.5
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
35
Incident Energy (MeV)
53-I -124

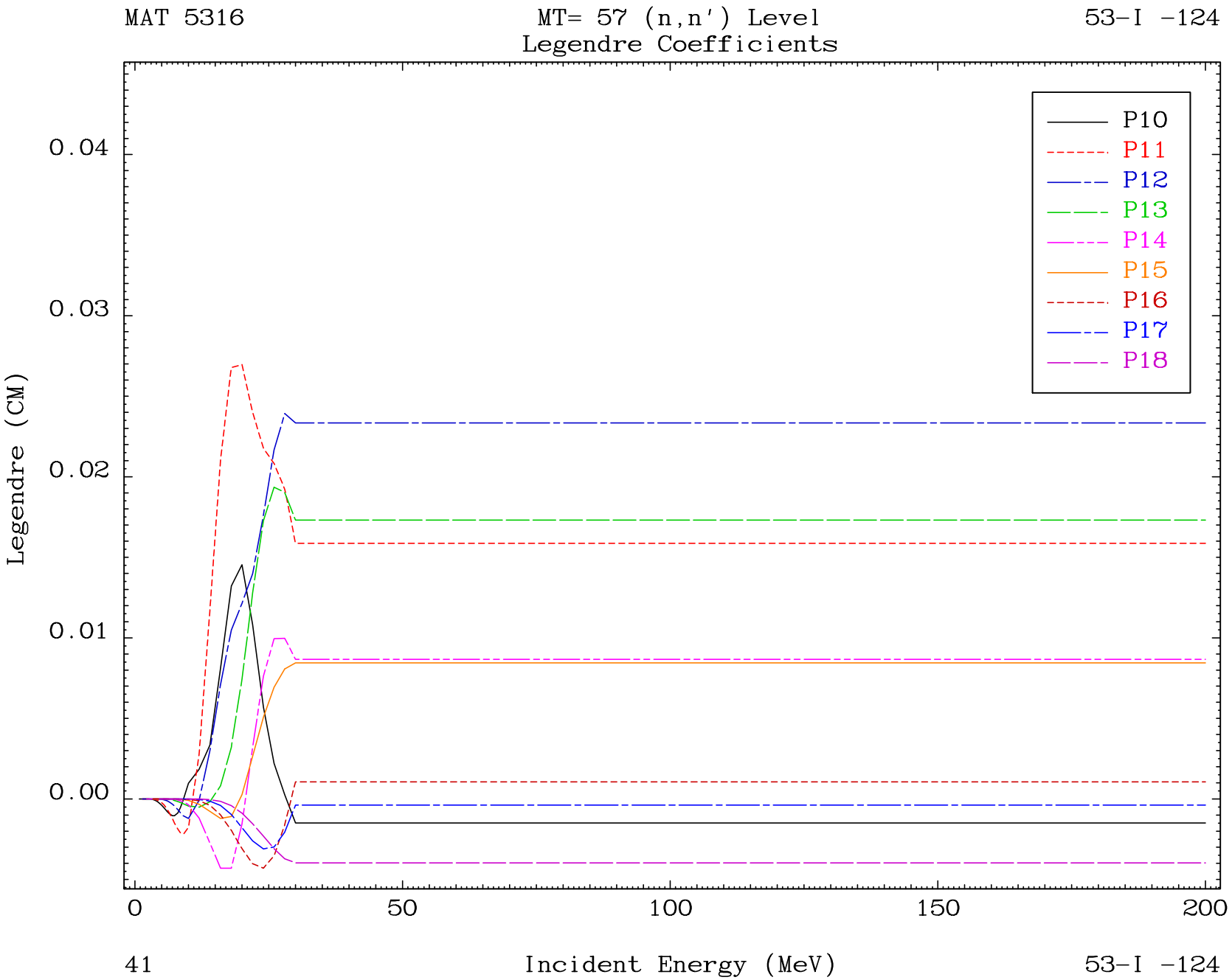

MAT 5316
MT= 55 (n,n') Level
Legendre Coefficients
53-I -124
0.0
X10^-6
-0.2
-0.4
-0.6
-0.8
-1.0
Legendre (CM)
50
100
150
200
P28
P29
P30
P31
P32
P33
P34
P35
P36
36
Incident Energy (MeV)
53-I -124

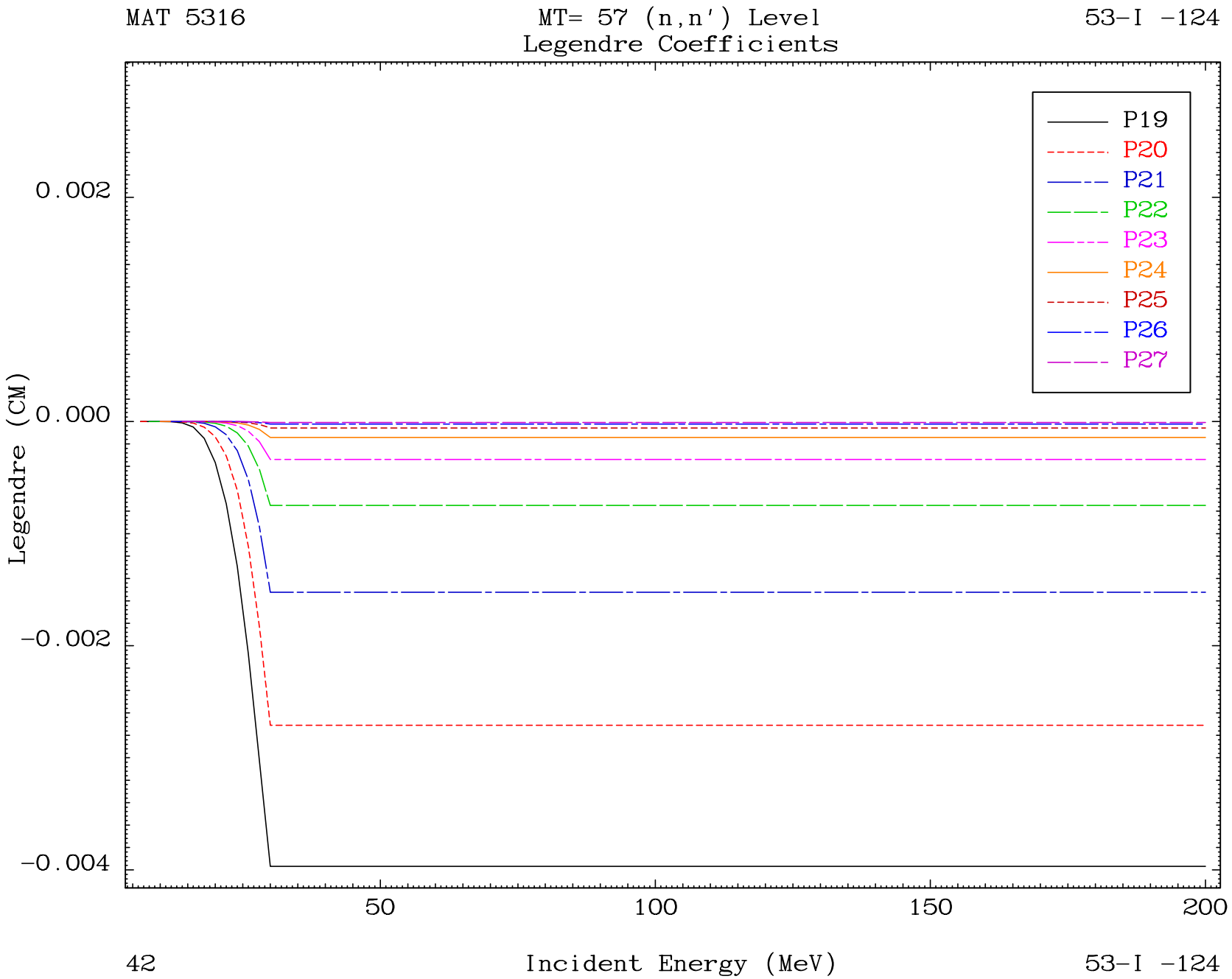

MAT 5316
MT= 56 (n,n') Level
Legendre Coefficients
53-I -124
0.08
0.06
0.04
0.02
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
0
50
100
150
200
37
Incident Energy (MeV)
53-I -124

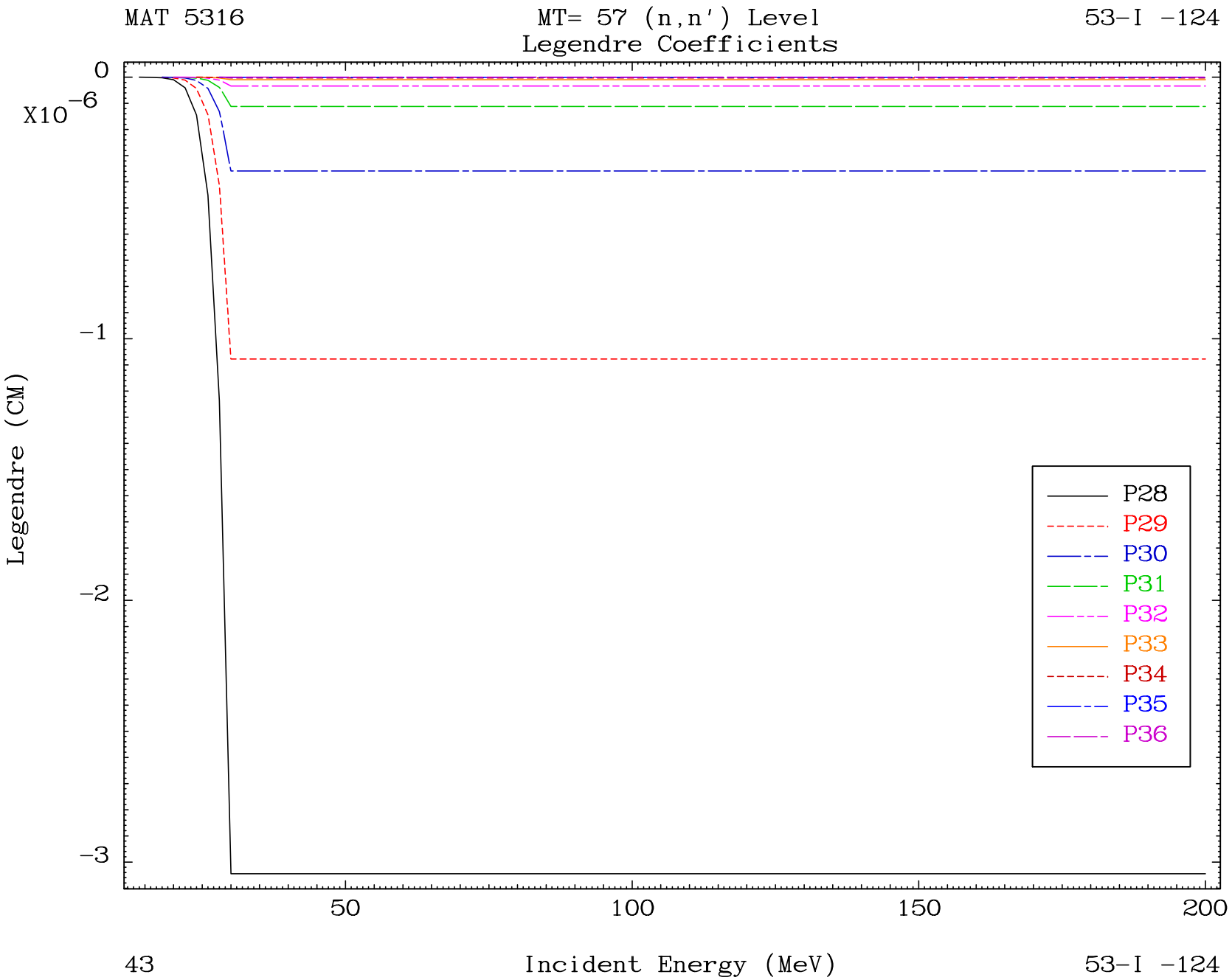

MAT 5316
MT= 56 (n,n') Level
Legendre Coefficients
53-I -124
X10^-4
0
-1
-2
-3
-4
-5
Legendre (CM)
P9
P10
P11
P12
P13
P14
P15
P16
0
50
100
150
200
38
Incident Energy (MeV)
53-I -124

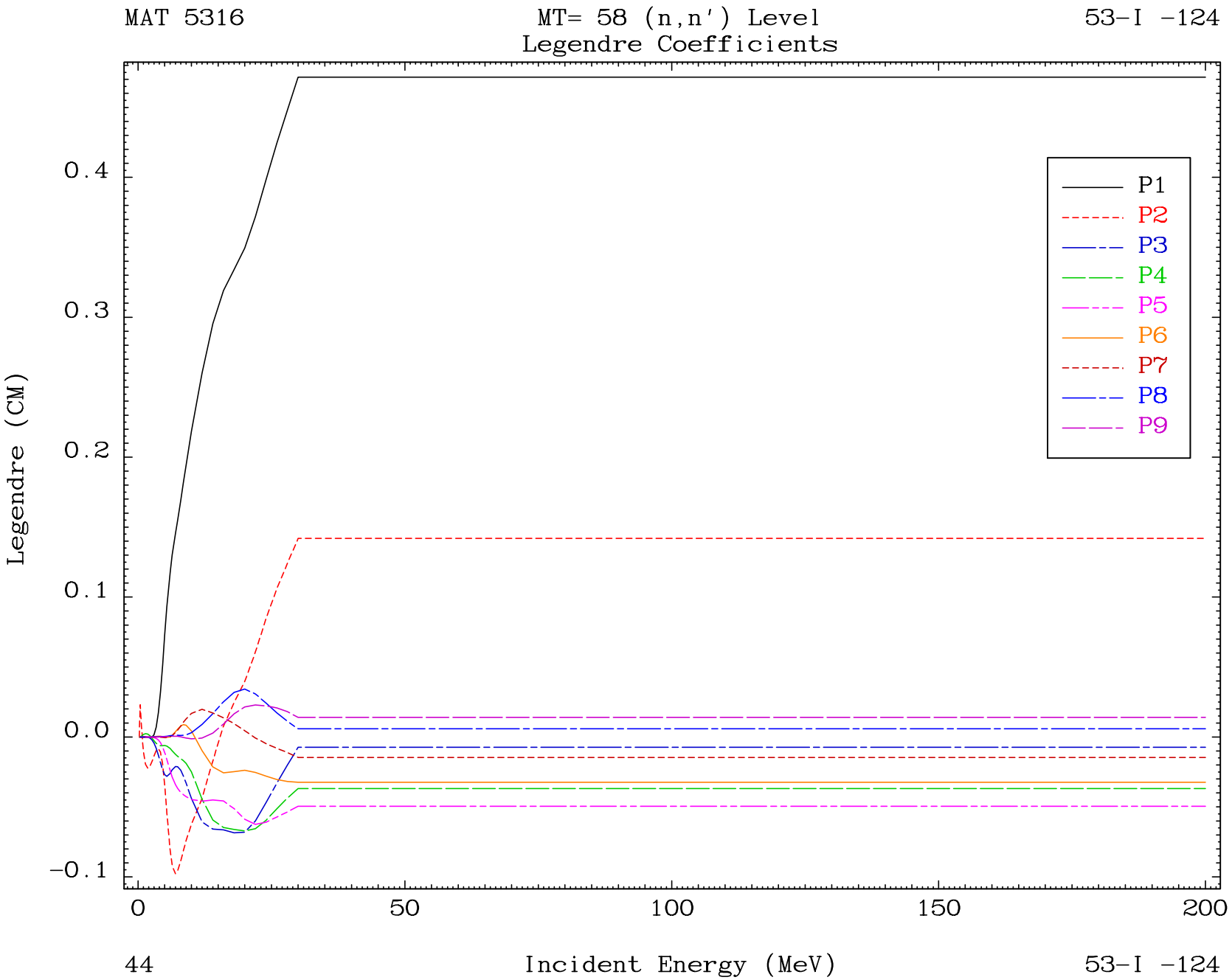

MAT 5316
MT= 56 (n,n') Level
Legendre Coefficients
53-I -124
X10^-6
5
4
3
2
1
0
Legendre (CM)
50
100
150
200
39
Incident Energy (MeV)
53-I -124
P17
P18
P19
P20
P21
P22
P23
P24

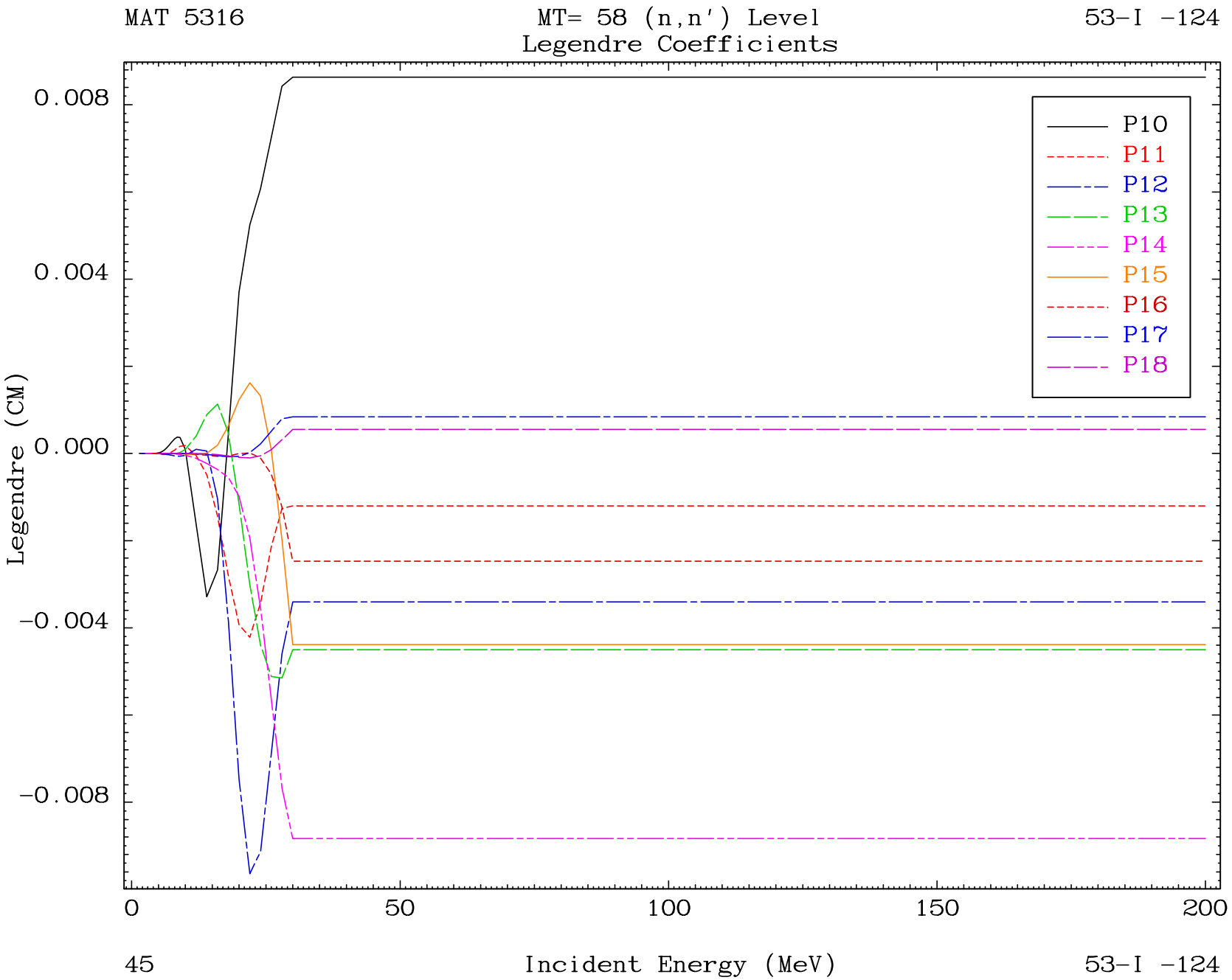

MAT 5316
MT= 57 (n,n') Level
Legendre Coefficients
53-I -124
Legendre (CM)
0.4
0.2
0.0
-0.2
0
50
100
150
200
40
Incident Energy (MeV)
53-I -124
P1
P2
P3
P4
P5
P6
P7
P8
P9

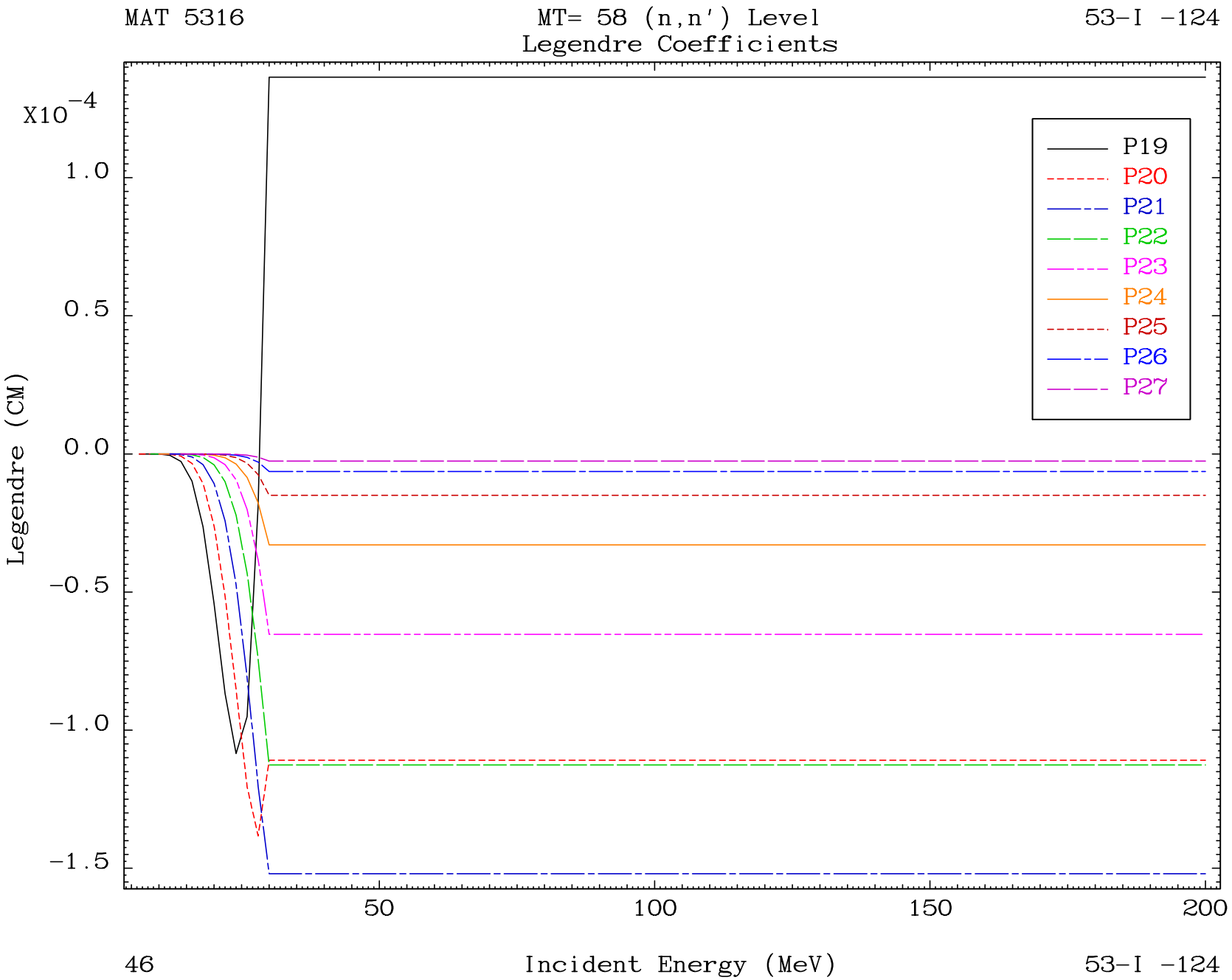

MAT 5316
MT= 57 (n,n') Level
Legendre Coefficients
53-I -124
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.04
0.03
0.02
0.01
0.00
Legendre (CM)
0
50
100
150
200
41
Incident Energy (MeV)
53-I -124

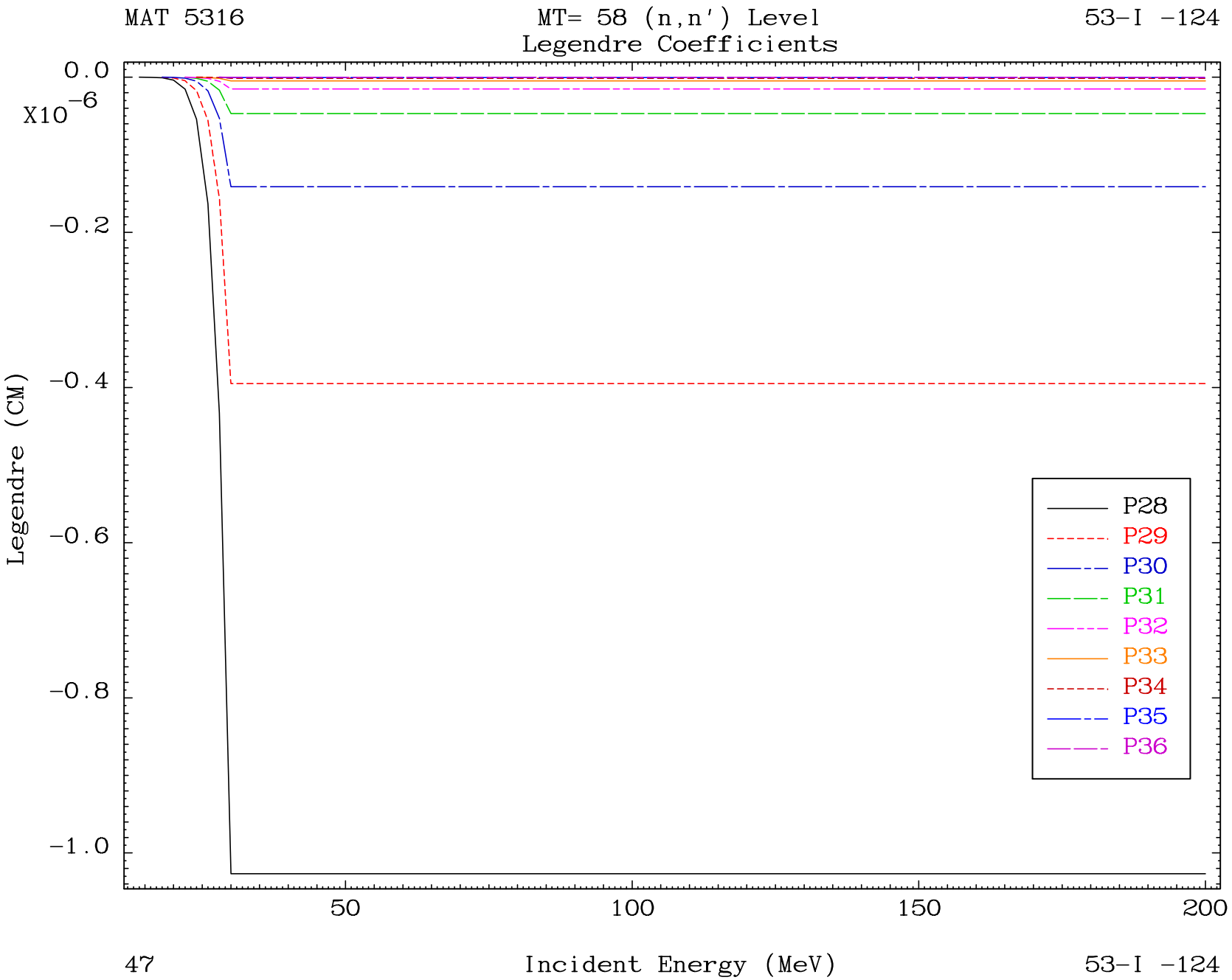

MAT 5316
MT= 57 (n,n') Level
Legendre Coefficients
53-I -124
P19
P20
P21
P22
P23
P24
P25
P26
P27
0.002
0.000
-0.002
-0.004
Legendre (CM)
50
100
150
200
42
Incident Energy (MeV)
53-I -124

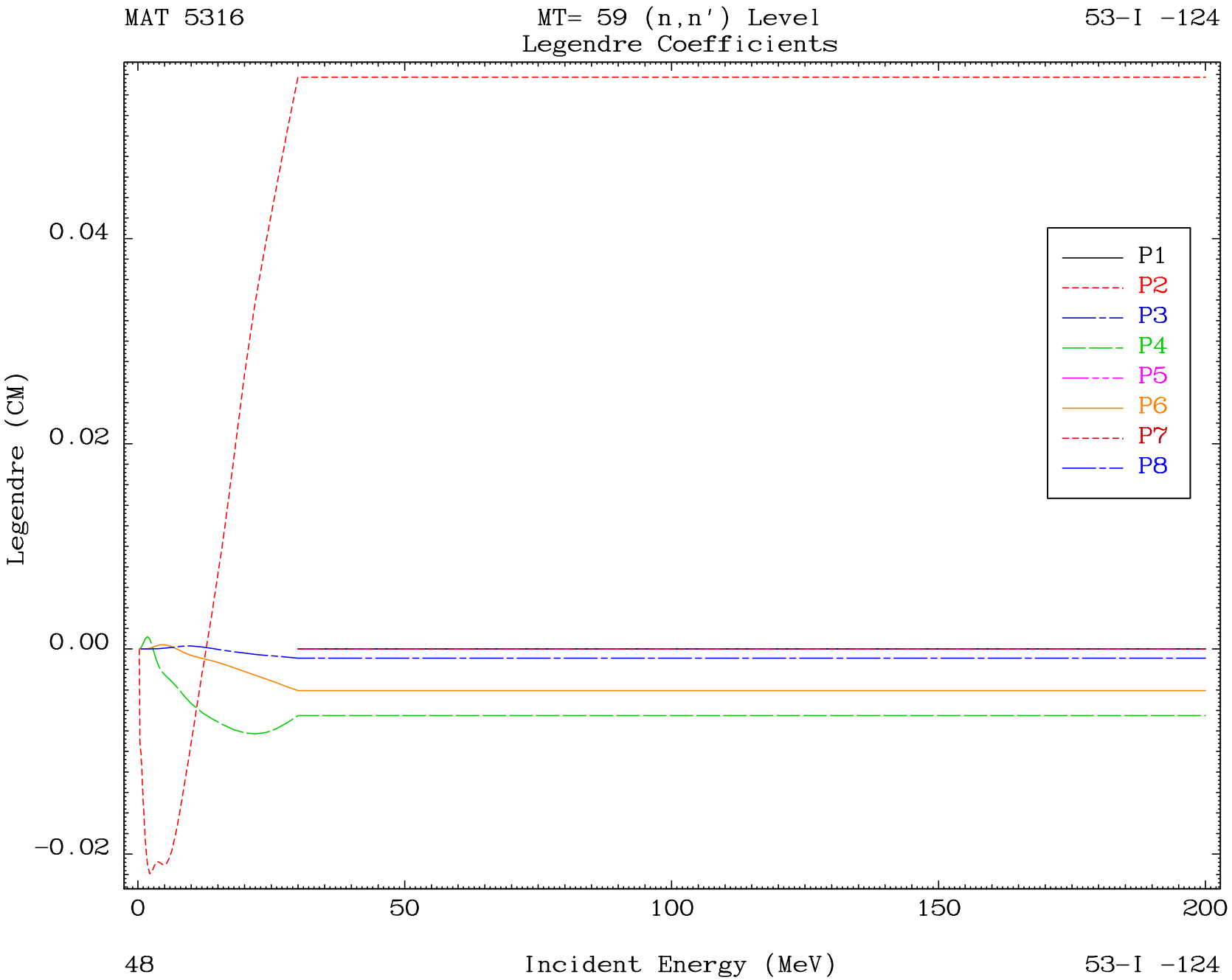

MAT 5316
MT= 57 (n,n') Level
Legendre Coefficients
53-I -124
0
X10^-6
-1
-2
-3
Legendre (CM)
50
100
150
200
43
Incident Energy (MeV)
53-I -124
P28
P29
P30
P31
P32
P33
P34
P35
P36

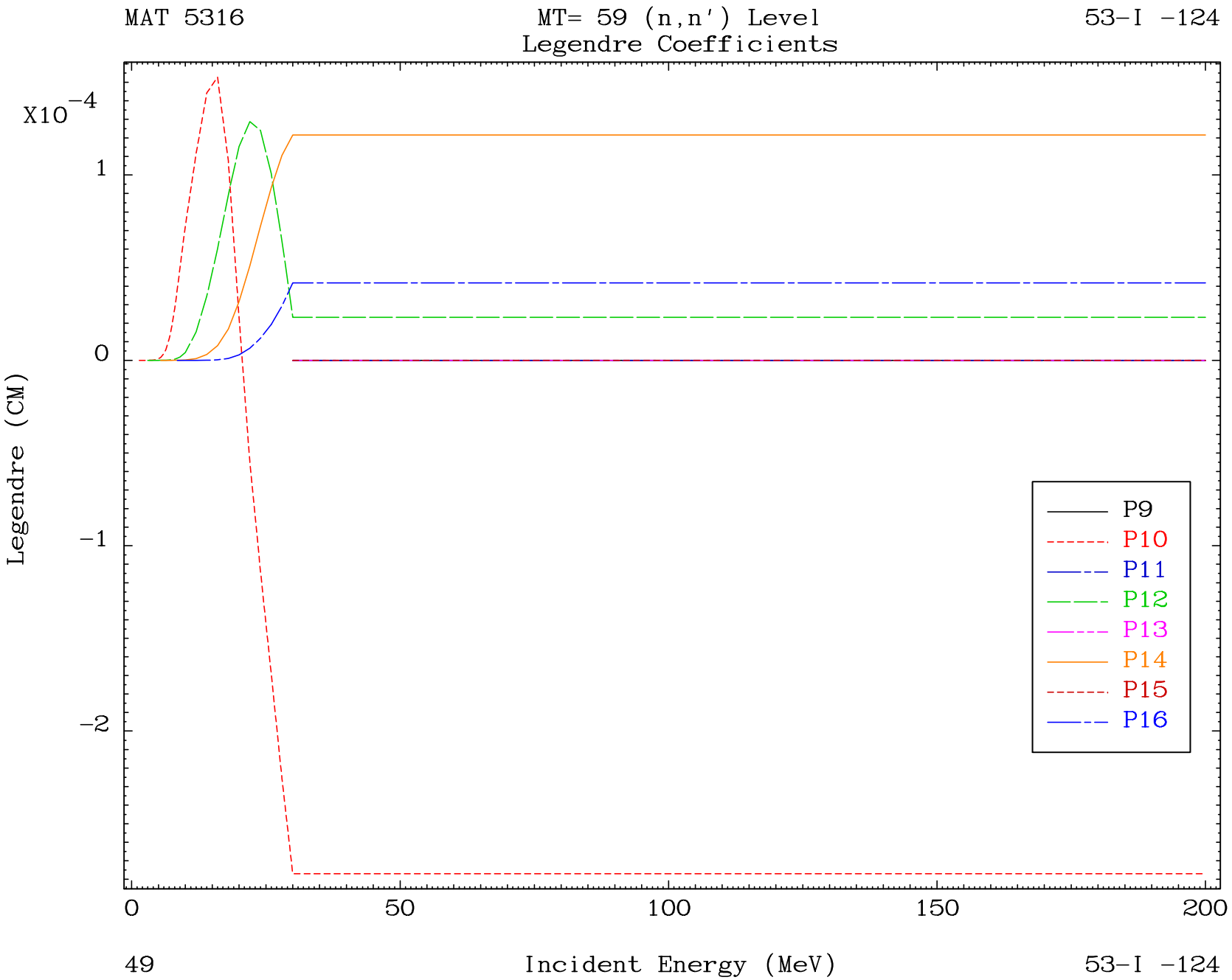

MAT 5316
MT= 58 (n,n') Level
Legendre Coefficients
53-I -124
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
-0.1
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
44
Incident Energy (MeV)
53-I -124

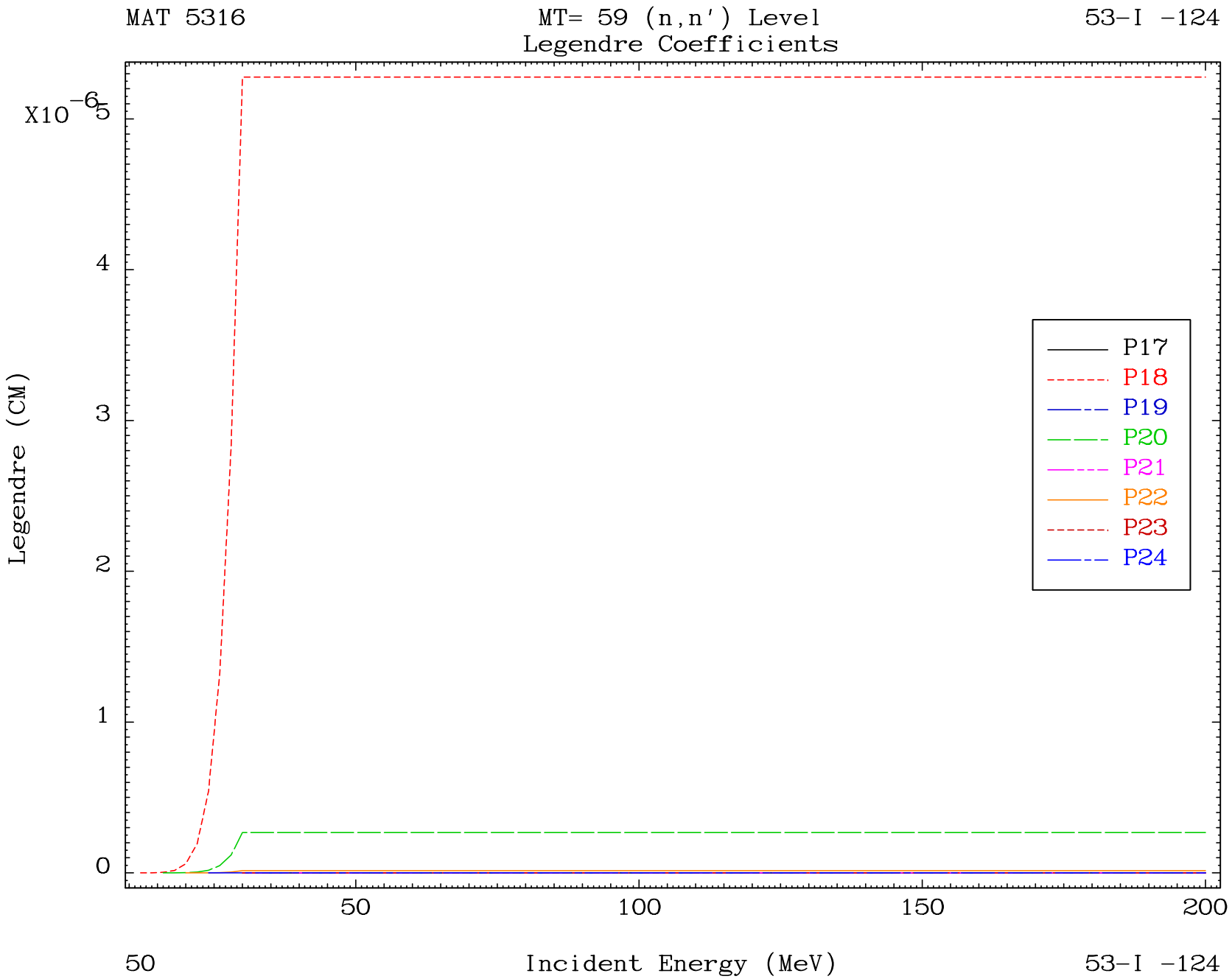

MAT 5316
MT= 58 (n,n') Level
Legendre Coefficients
53-I -124
0.008
0.004
0.000
-0.004
-0.008
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
45
Incident Energy (MeV)
53-I -124

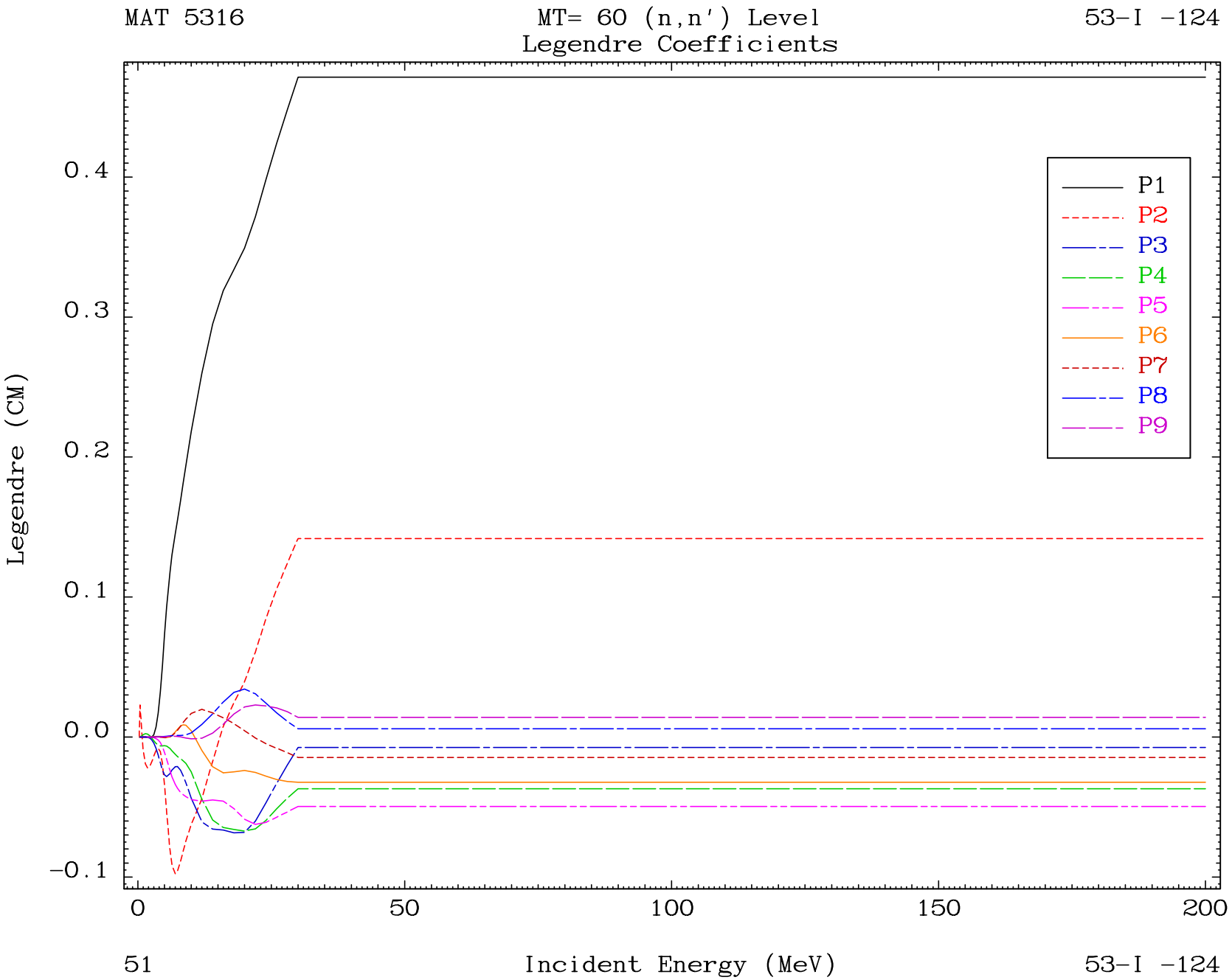

MAT 5316
MT= 58 (n,n') Level
Legendre Coefficients
53-I -124
X10^-4
1.0
0.5
0.0
-0.5
-1.0
-1.5
Legendre (CM)
50
100
150
200
Incident Energy (MeV)
P19
P20
P21
P22
P23
P24
P25
P26
P27
46
53-I -124

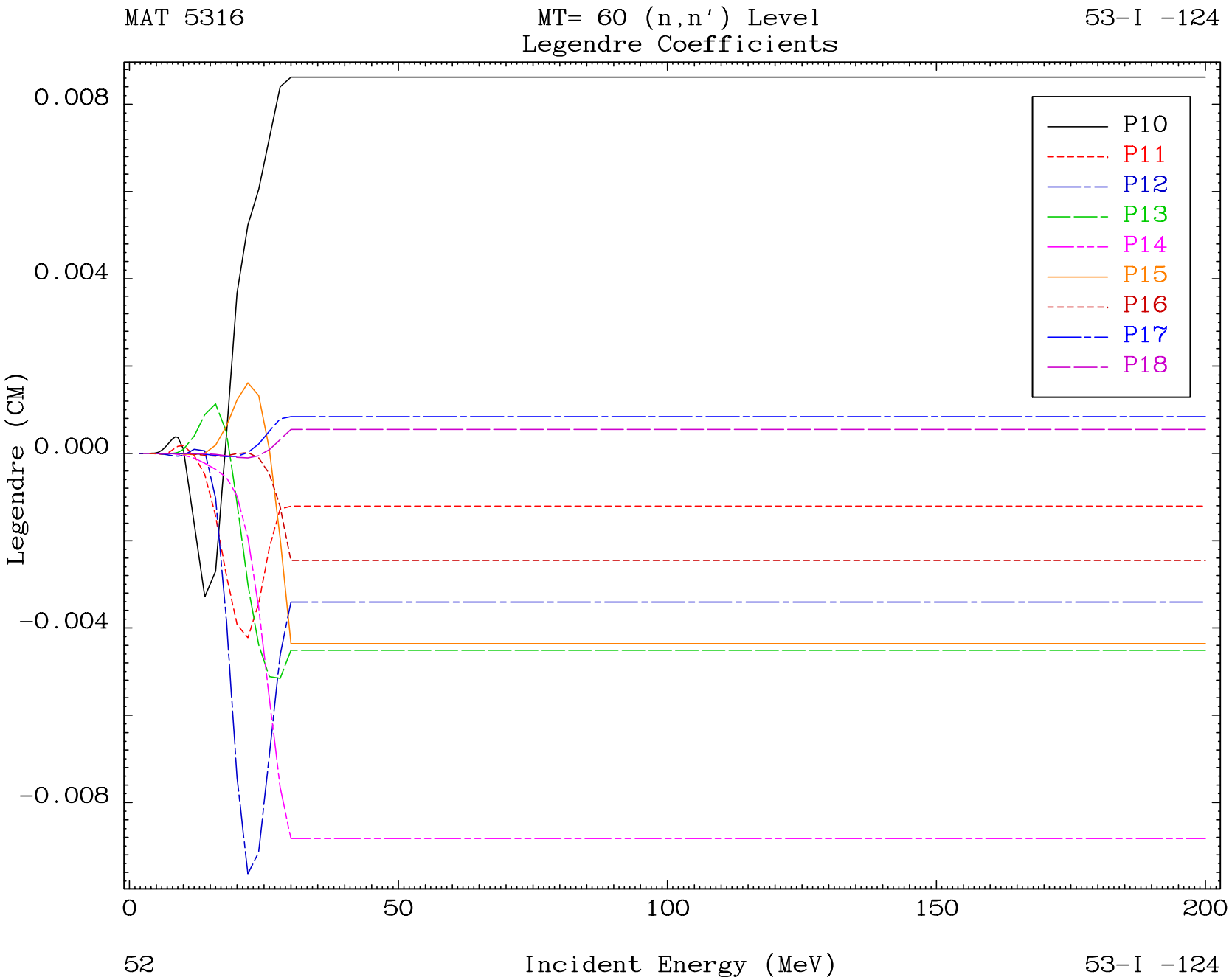

MAT 5316
MT= 58 (n,n') Level
Legendre Coefficients
53-I -124
0.0
X10^-6
-0.2
-0.4
-0.6
-0.8
-1.0
Legendre (CM)
50
100
150
200
47
Incident Energy (MeV)
53-I -124
P28
P29
P30
P31
P32
P33
P34
P35
P36

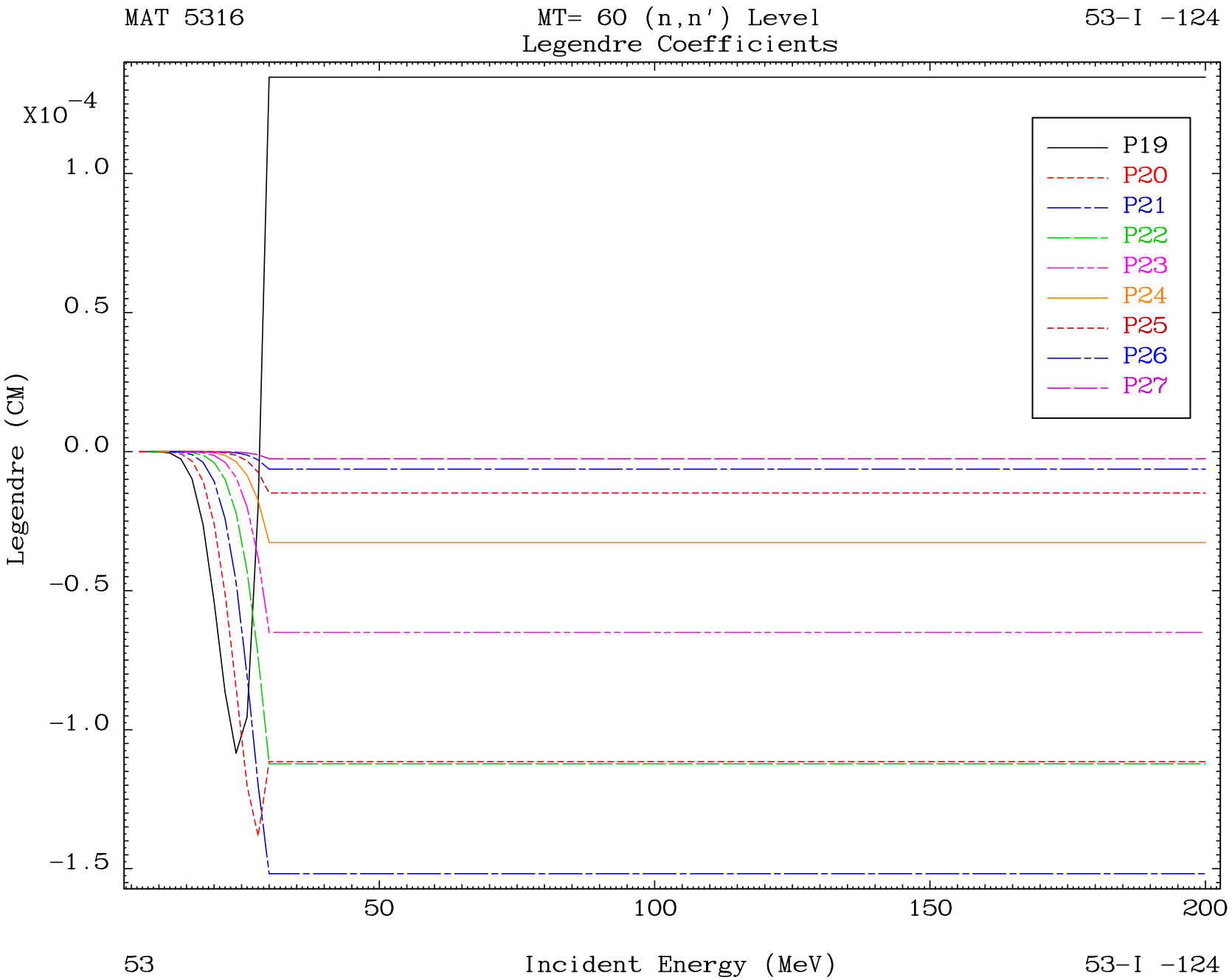

MAT 5316
MT= 59 (n,n') Level
Legendre Coefficients
53-I -124
0.04
0.02
0.00
-0.02
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
0
50
100
150
200
48
Incident Energy (MeV)
53-I -124

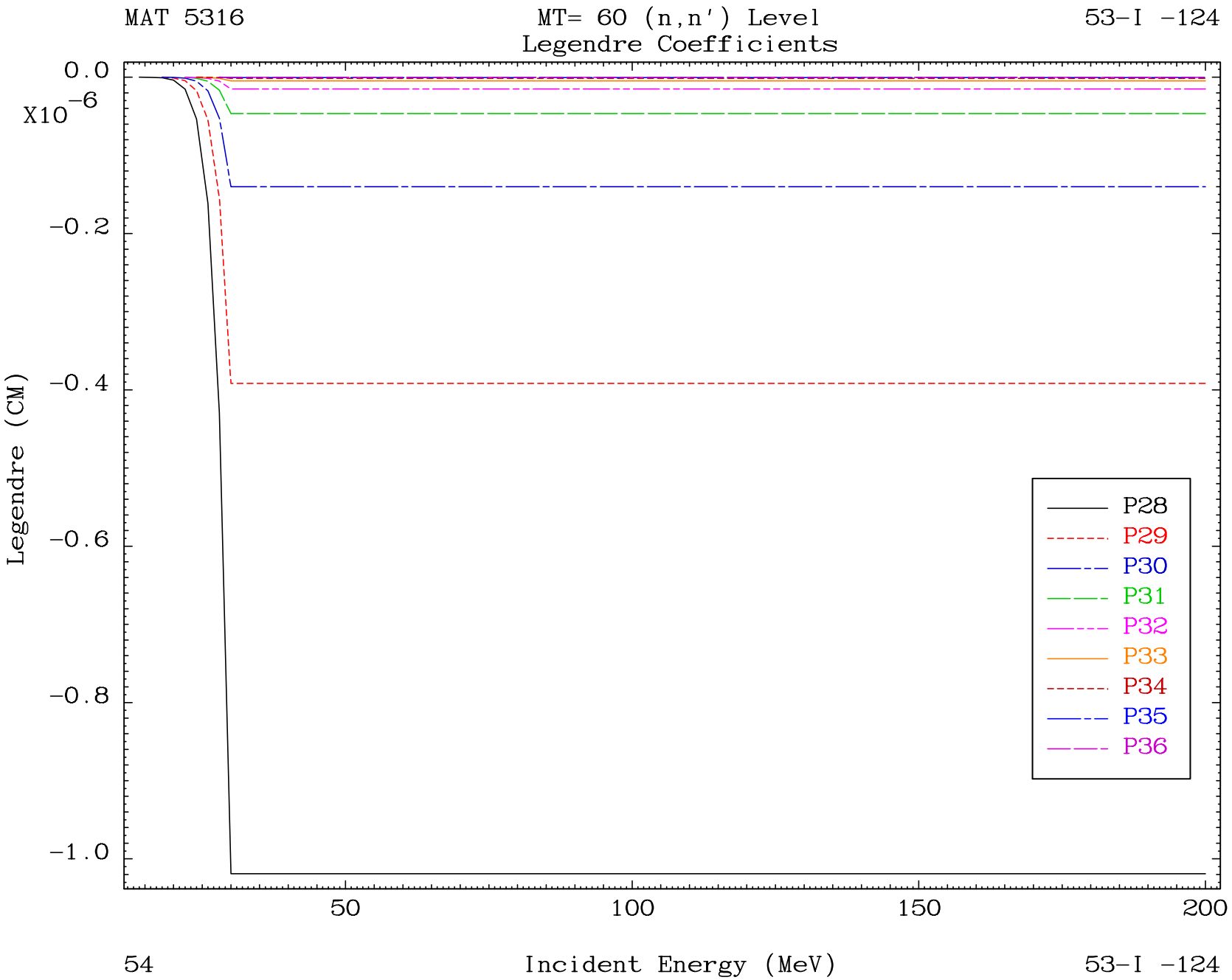

MAT 5316
MT= 59 (n,n') Level
Legendre Coefficients
53-I -124
X10^-4
1
0
-1
-2
Legendre (CM)
0
50
100
150
200
49
Incident Energy (MeV)
53-I -124
P9
P10
P11
P12
P13
P14
P15
P16

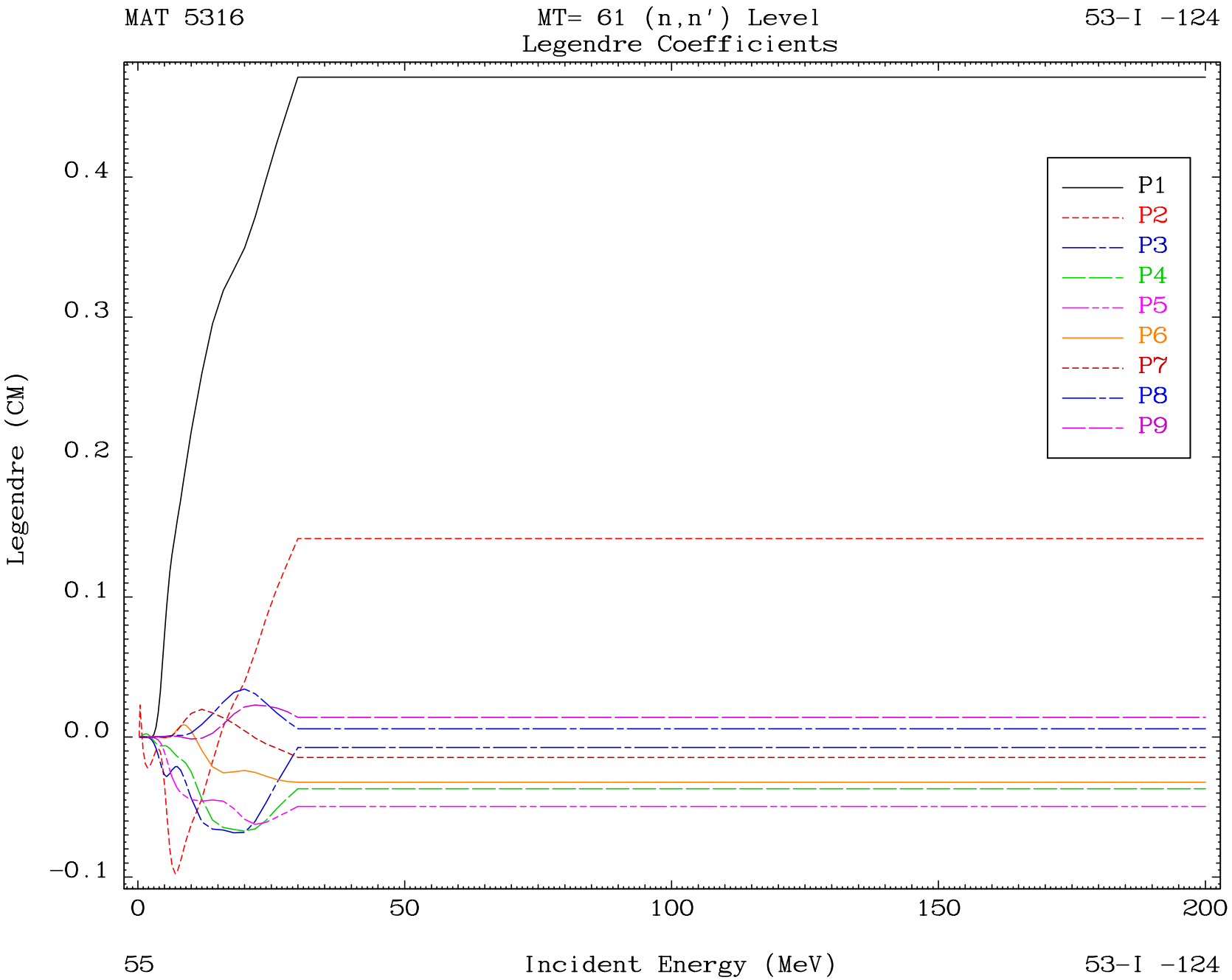

MAT 5316
MT= 59 (n,n') Level
Legendre Coefficients
53-I -124
X10 -6
5
4
3
2
1
0
Legendre (CM)
50
100
150
200
50
Incident Energy (MeV)
53-I -124
P17
P18
P19
P20
P21
P22
P23
P24

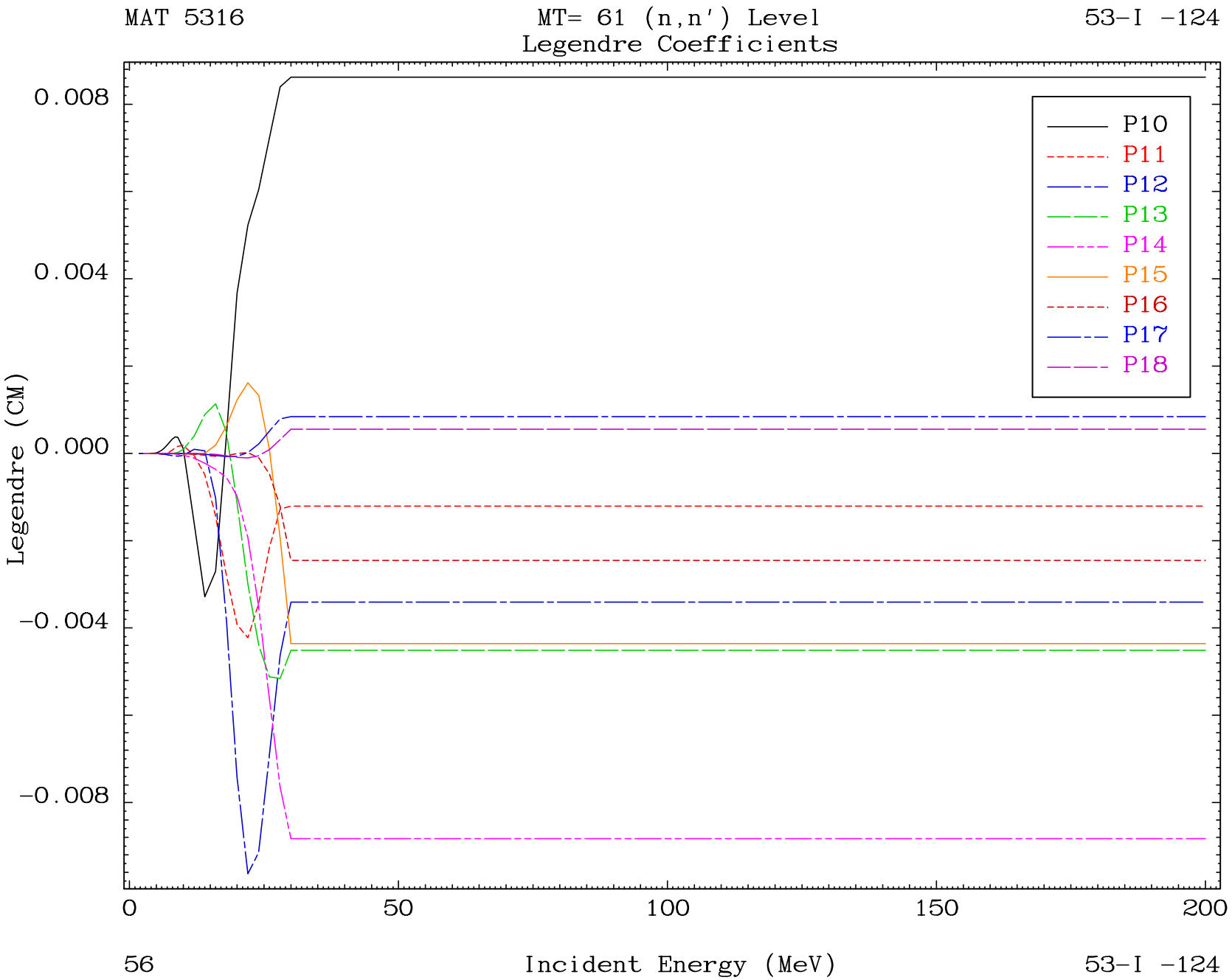

MAT 5316
MT= 60 (n,n') Level
Legendre Coefficients
53-I -124
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
-0.1
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
51
Incident Energy (MeV)
53-I -124

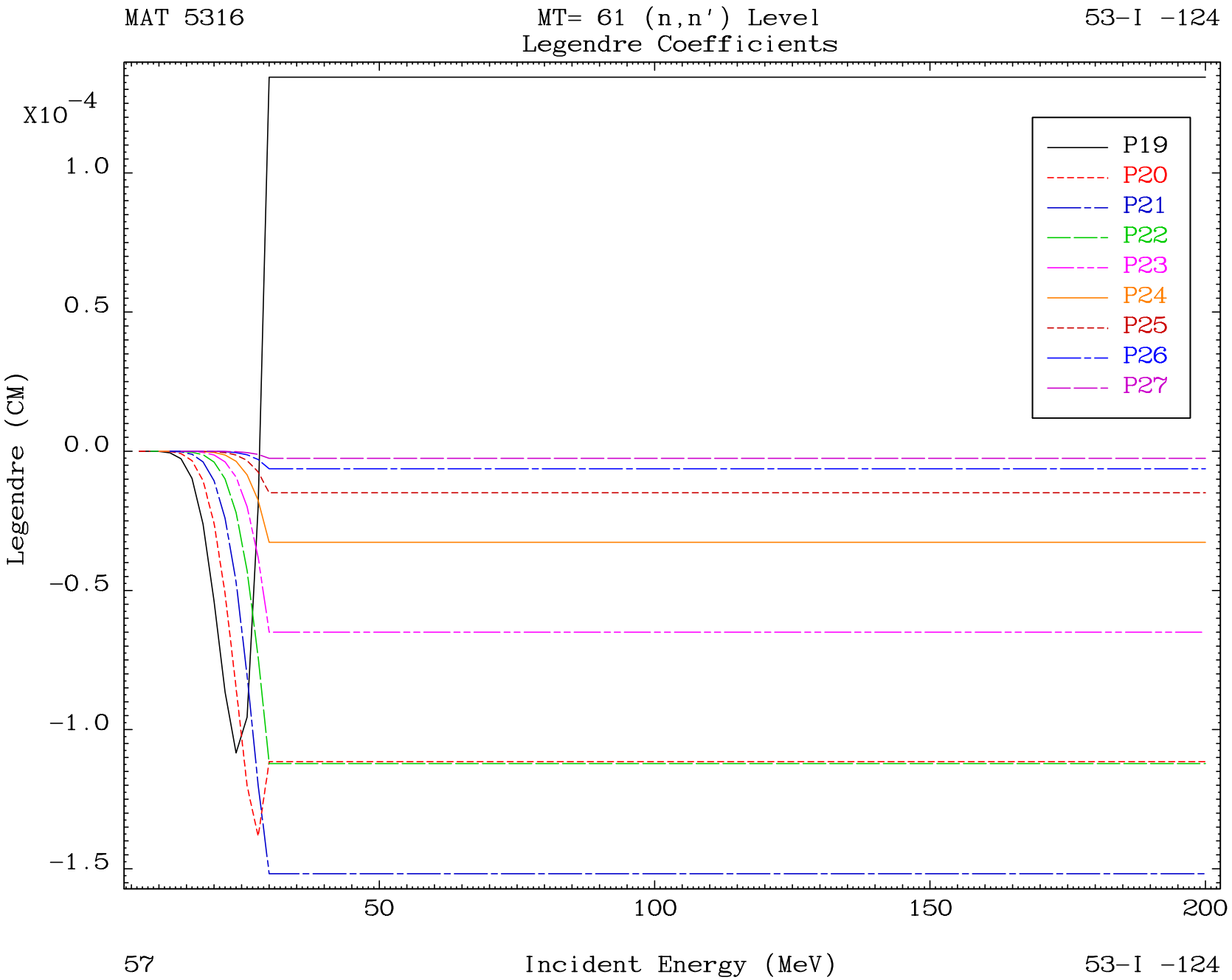

MAT 5316
MT= 60 (n,n') Level
Legendre Coefficients
53-I -124
0.008
0.004
0.000
-0.004
-0.008
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
52
Incident Energy (MeV)
53-I -124

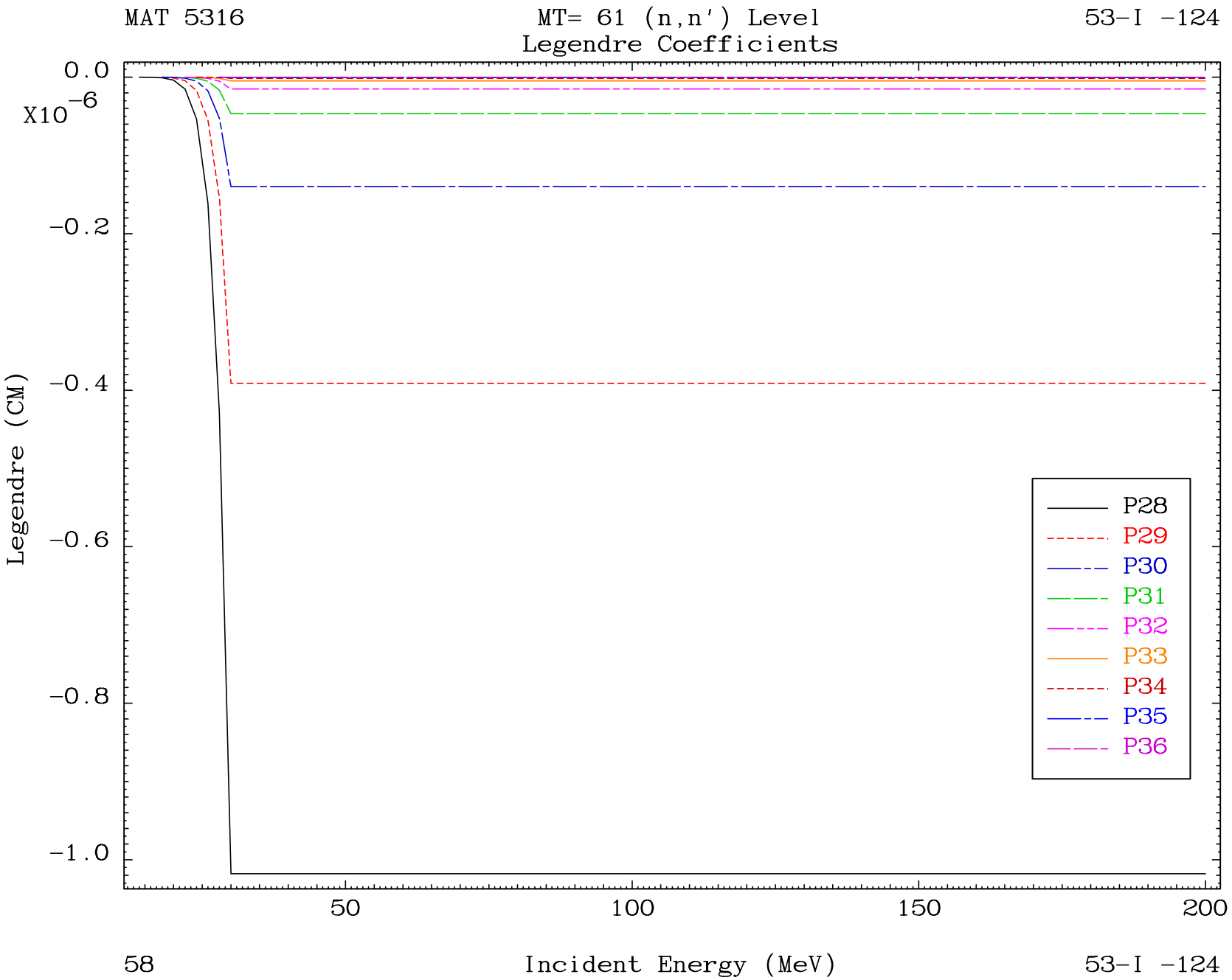

MAT 5316
MT= 60 (n,n') Level
Legendre Coefficients
53-I -124
X10^-4
1.0
0.5
0.0
-0.5
-1.0
-1.5
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
53
Incident Energy (MeV)
53-I -124

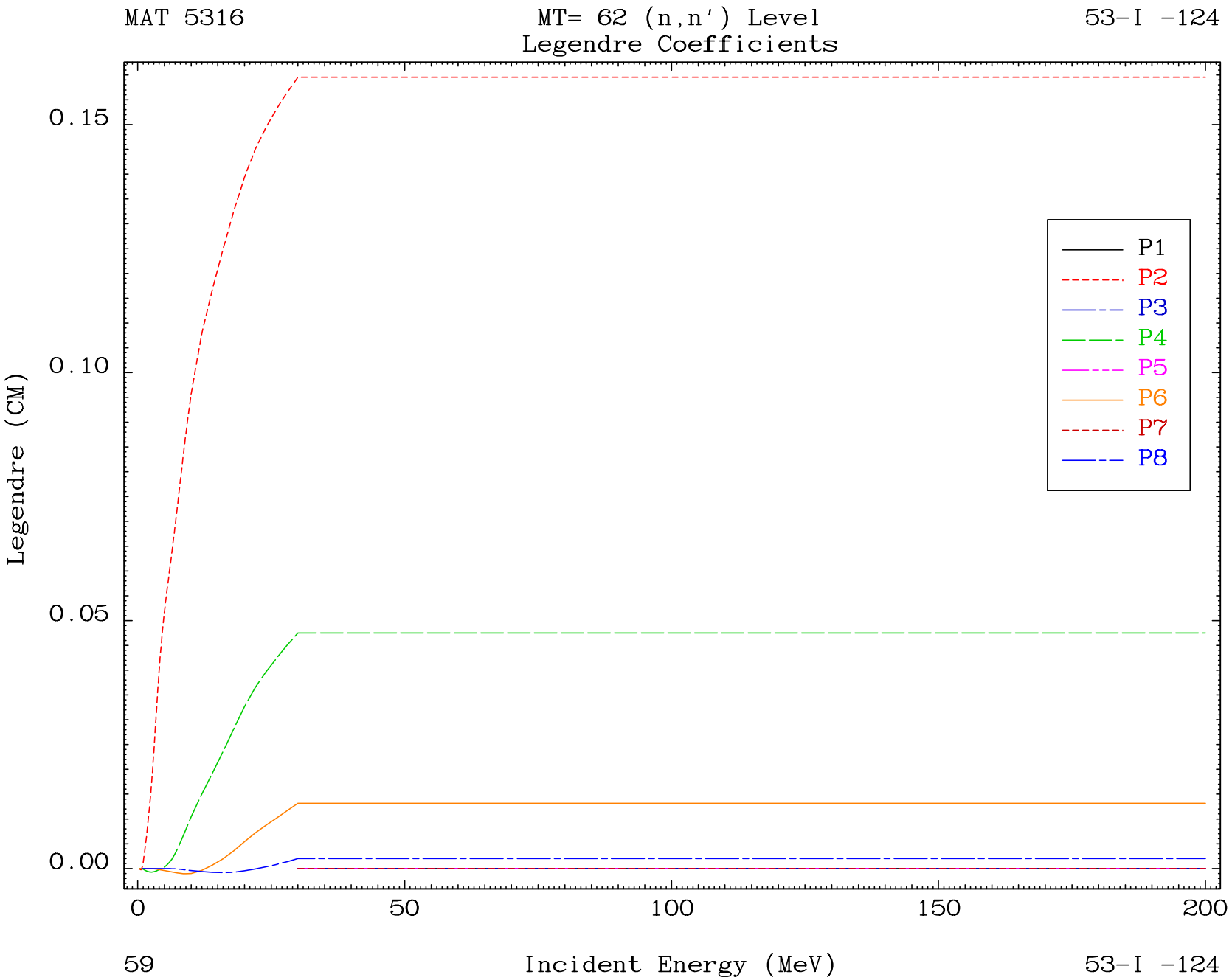

MAT 5316
MT= 60 (n,n') Level
Legendre Coefficients
53-I -124
0.0
X10^-6
-0.2
-0.4
-0.6
-0.8
-1.0
Legendre (CM)
50
100
150
200
54
Incident Energy (MeV)
53-I -124
P28
P29
P30
P31
P32
P33
P34
P35
P36

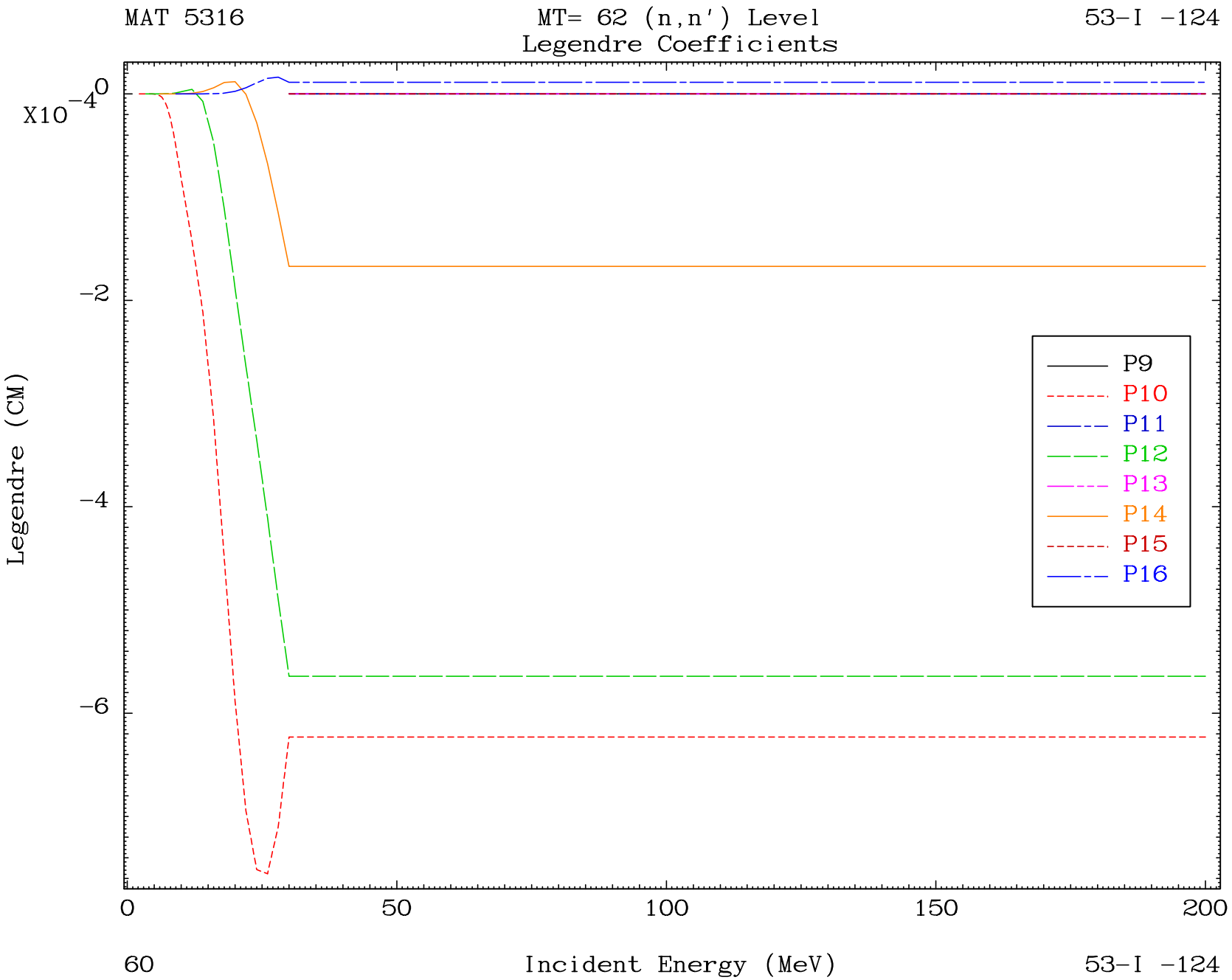

MAT 5316
MT= 61 (n,n') Level
Legendre Coefficients
53-I -124
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
-0.1
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
55
Incident Energy (MeV)
53-I -124

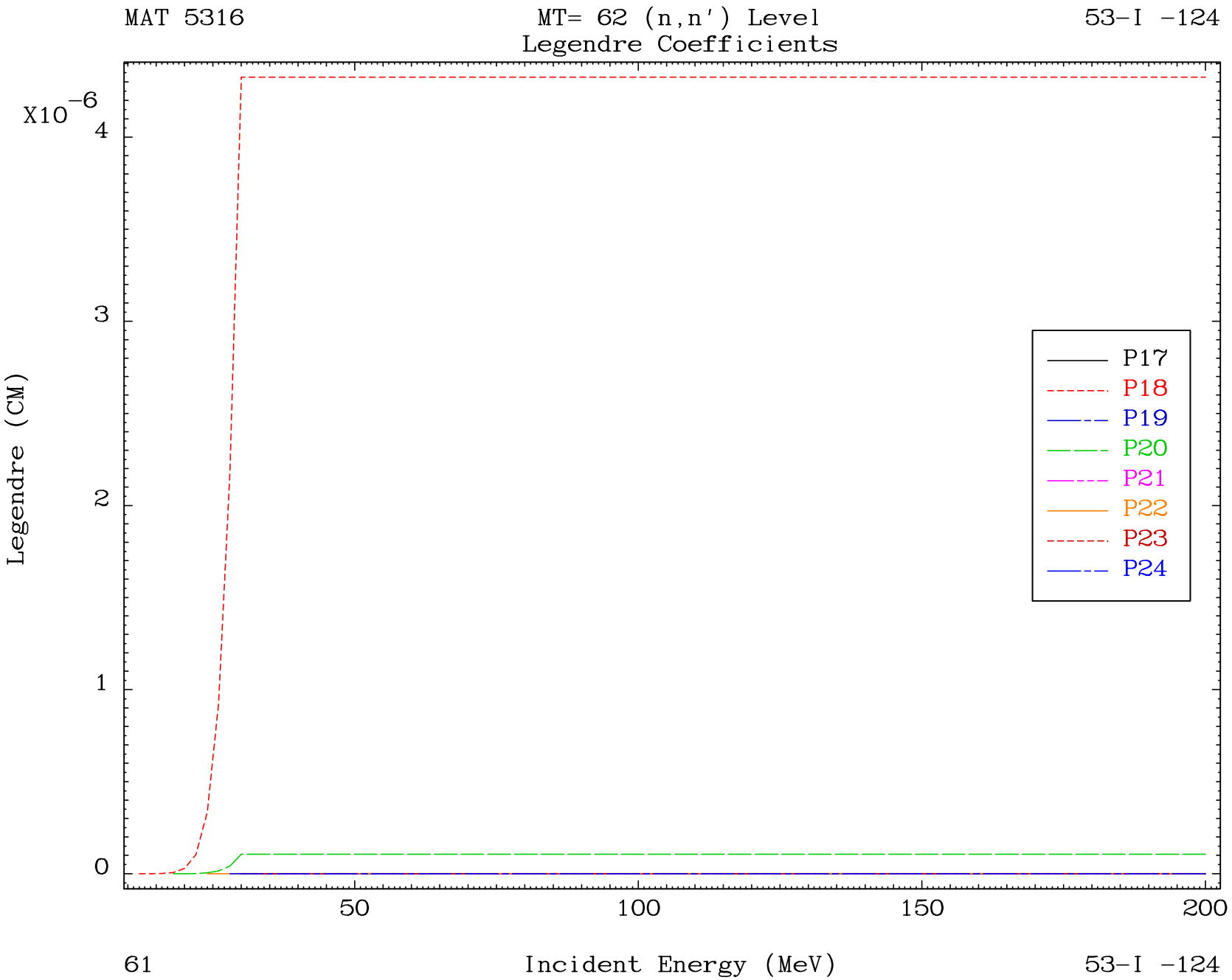

MAT 5316
MT= 61 (n,n') Level
Legendre Coefficients
53-I -124
0.008
0.004
0.000
-0.004
-0.008
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
56
Incident Energy (MeV)
53-I -124

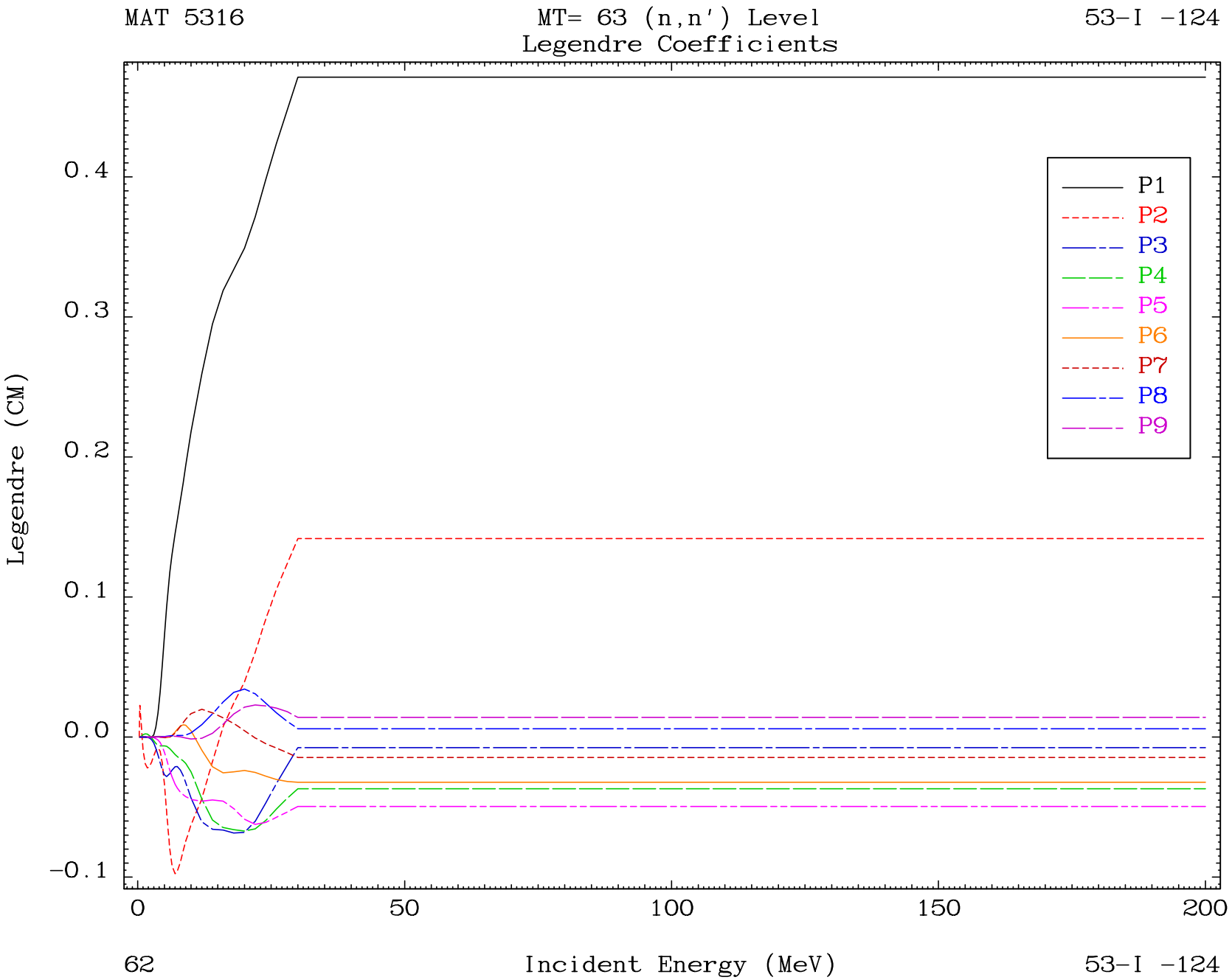

MAT 5316
MT= 61 (n,n') Level
Legendre Coefficients
53-I -124
X10^-4
1.0
0.5
0.0
-0.5
-1.0
-1.5
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
57
Incident Energy (MeV)
53-I -124

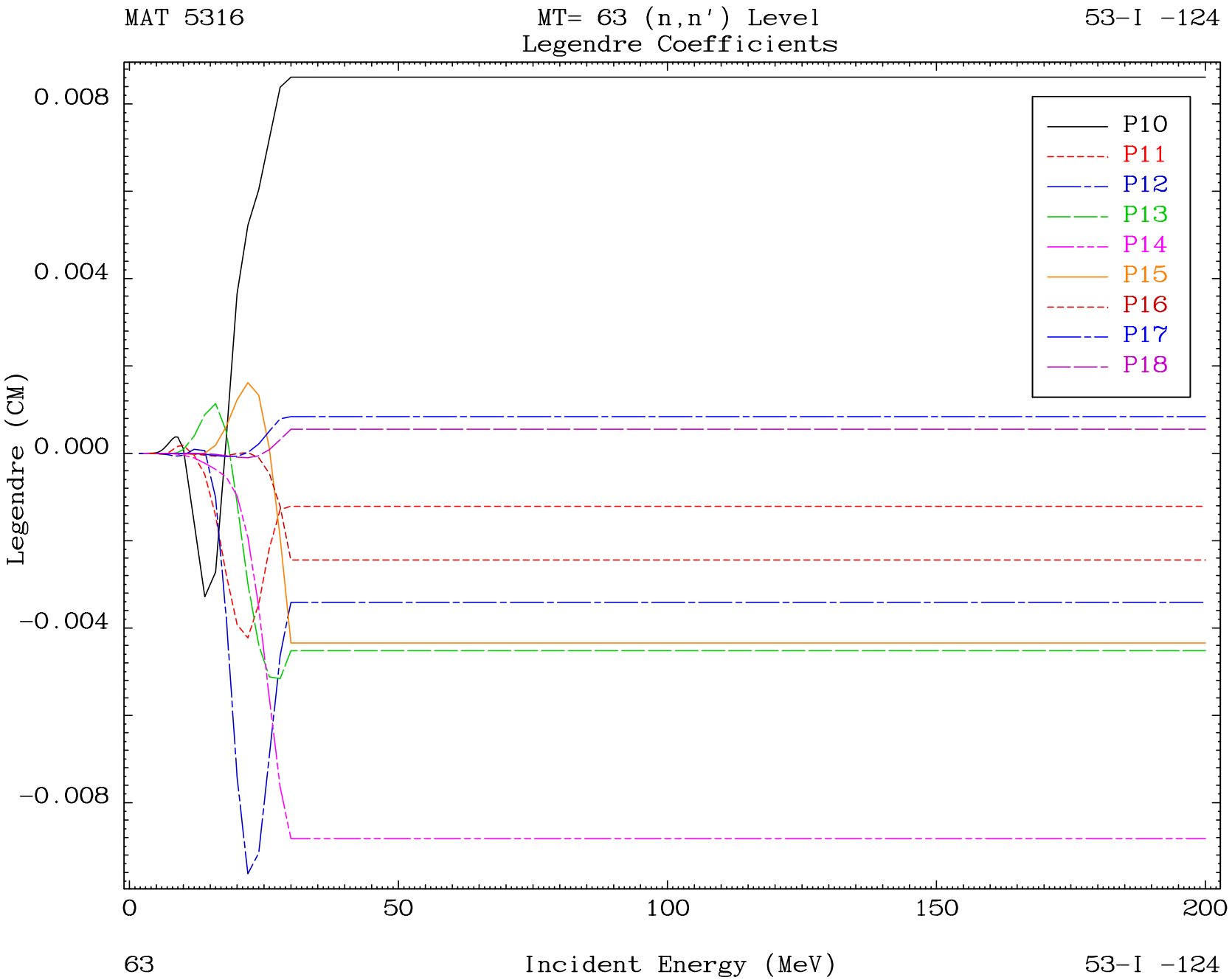

MAT 5316
MT= 61 (n,n') Level
Legendre Coefficients
53-I -124
0.0
X10^-6
-0.2
-0.4
-0.6
-0.8
-1.0
Legendre (CM)
50
100
150
200
58
Incident Energy (MeV)
53-I -124
P28
P29
P30
P31
P32
P33
P34
P35
P36

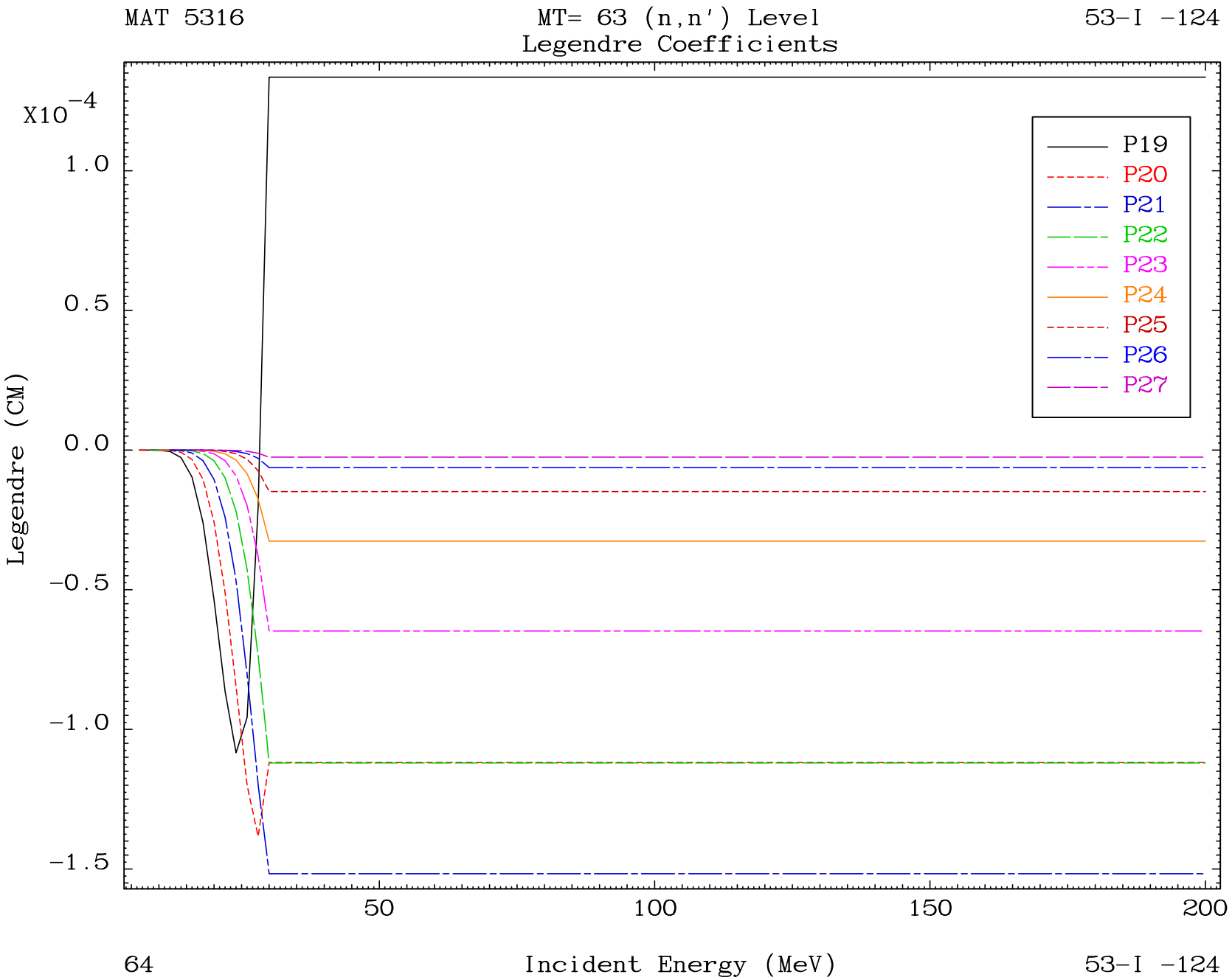

MAT 5316
MT= 62 (n,n') Level
Legendre Coefficients
53-I -124
0.15
0.10
0.05
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
0
50
100
150
200
59
Incident Energy (MeV)
53-I -124

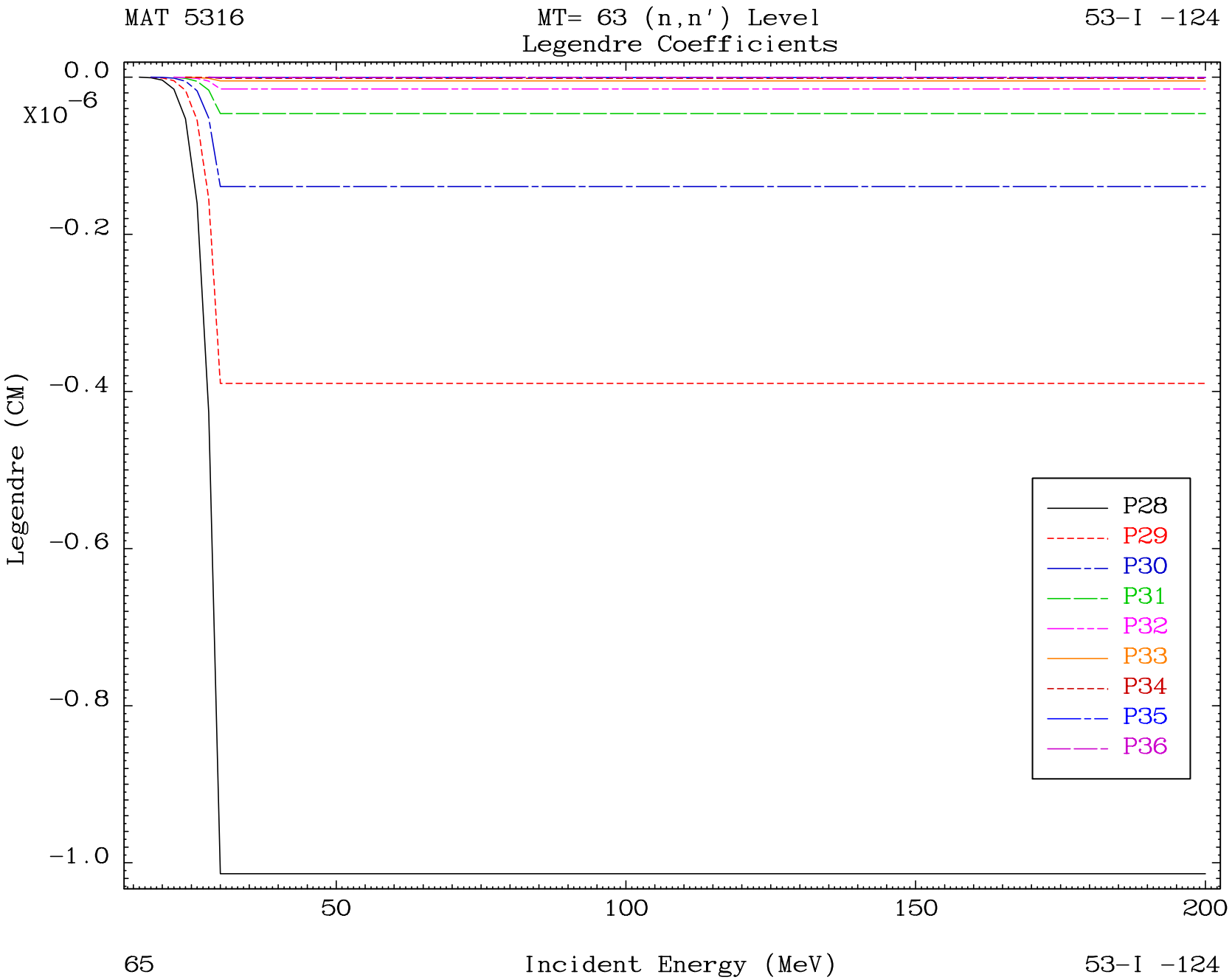

MAT 5316
MT= 62 (n,n') Level
Legendre Coefficients
53-I -124
X10^-4
0
-2
-4
-6
Legendre (CM)
P9
P10
P11
P12
P13
P14
P15
P16
0
50
100
150
200
60
Incident Energy (MeV)
53-I -124

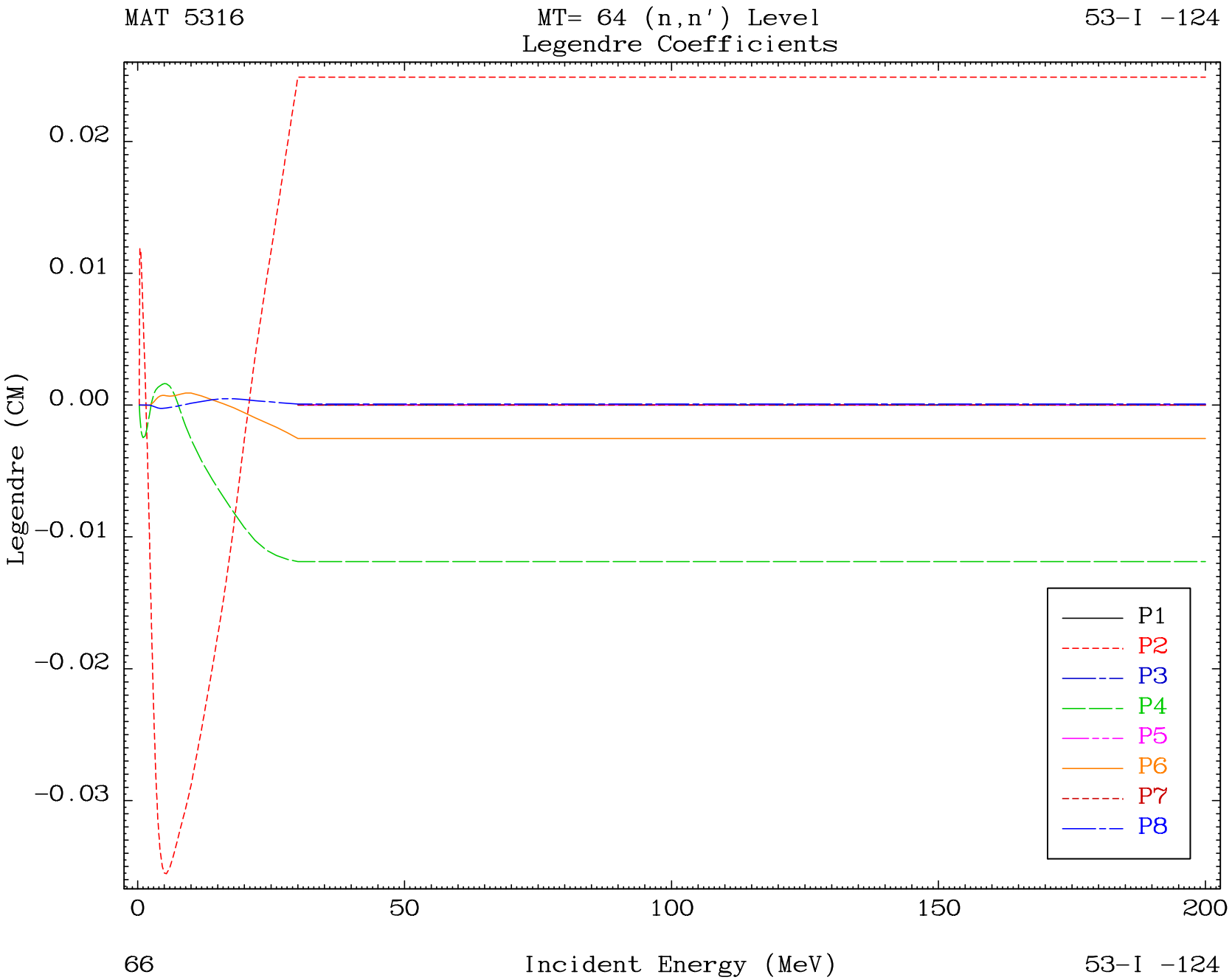

MAT 5316
MT= 62 (n,n') Level
Legendre Coefficients
53-I -124
X10 -6
4
3
2
1
0
Legendre (CM)
50
100
150
200
61
Incident Energy (MeV)
53-I -124
P17
P18
P19
P20
P21
P22
P23
P24

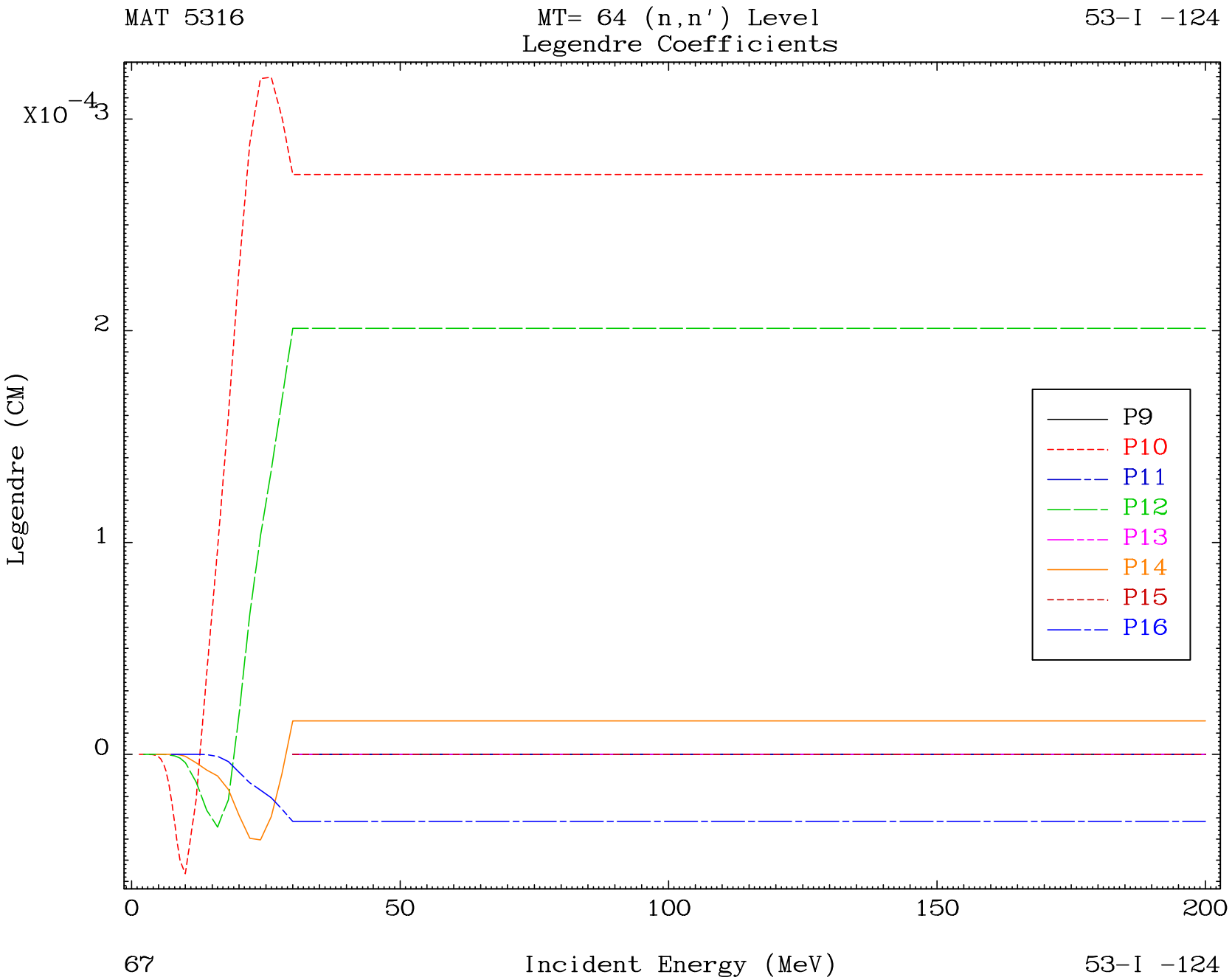

MAT 5316
MT= 63 (n,n') Level
Legendre Coefficients
53-I -124
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
-0.1
0
50
100
150
200
62
Incident Energy (MeV)
53-I -124
P1
P2
P3
P4
P5
P6
P7
P8
P9

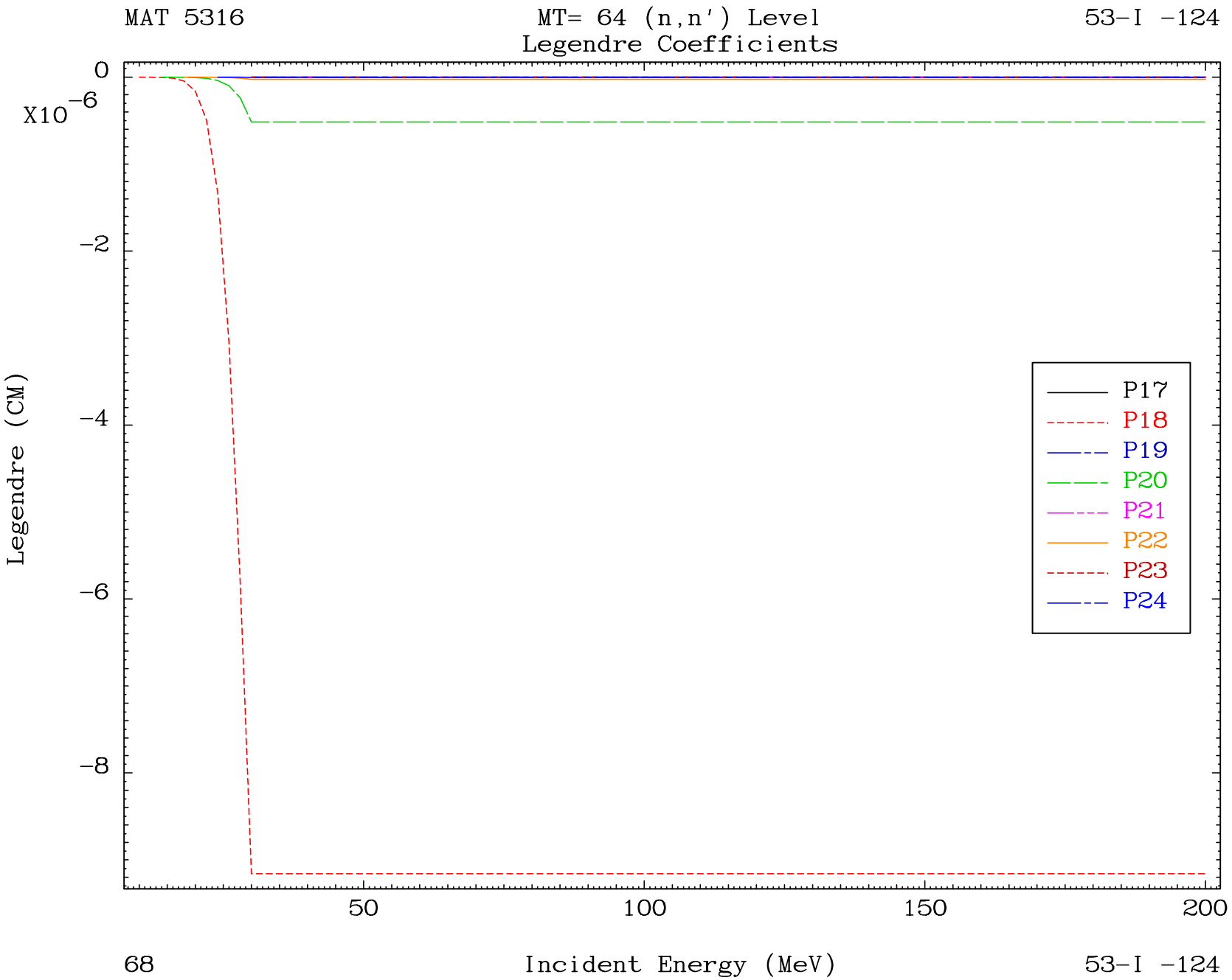

MAT 5316
MT= 63 (n,n') Level
Legendre Coefficients
53-I -124
0.008
0.004
0.000
-0.004
-0.008
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
63
Incident Energy (MeV)
53-I -124

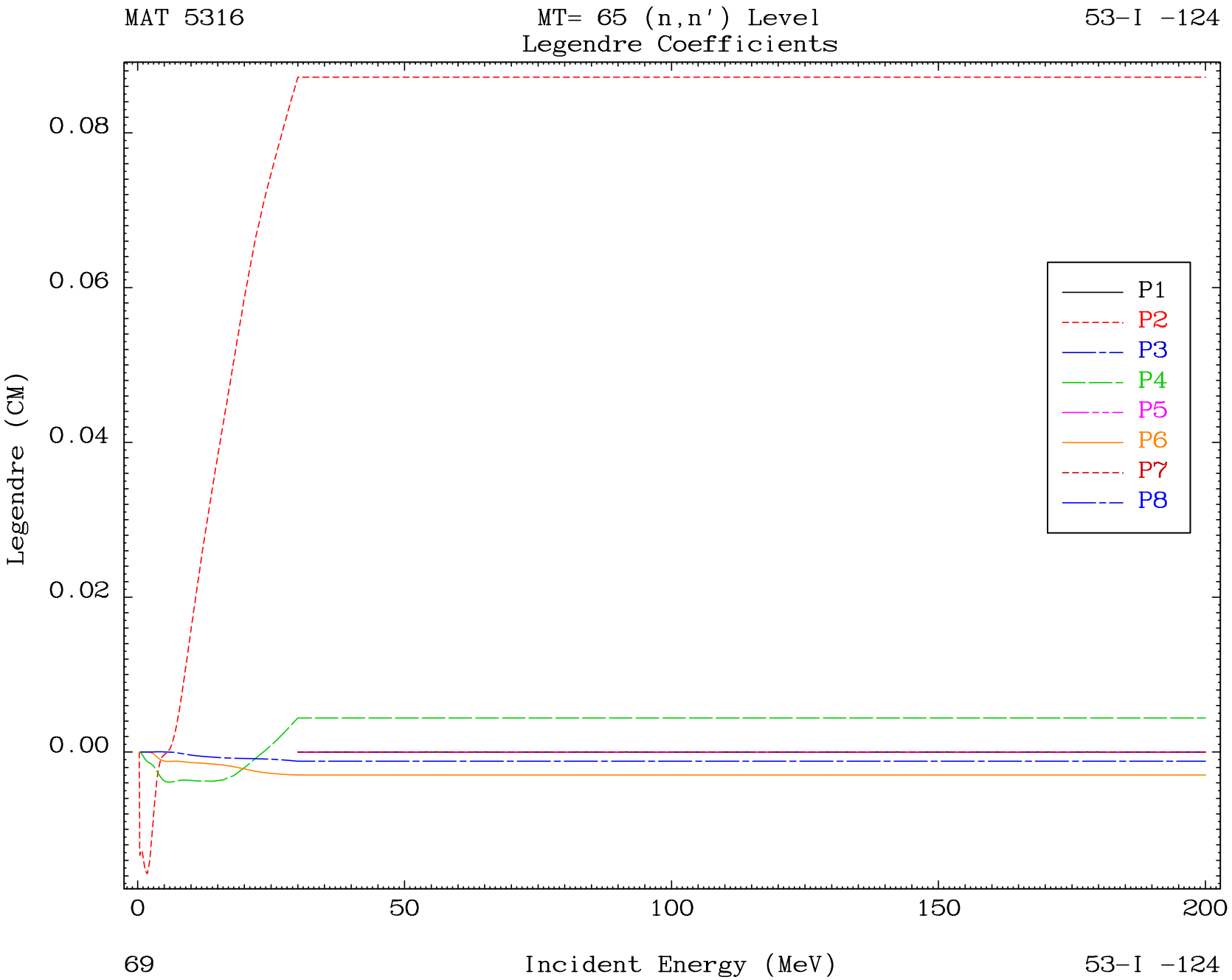

MAT 5316
MT= 63 (n,n') Level
Legendre Coefficients
53-I -124
X10^-4
1.0
0.5
0.0
-0.5
-1.0
-1.5
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
64
Incident Energy (MeV)
53-I -124

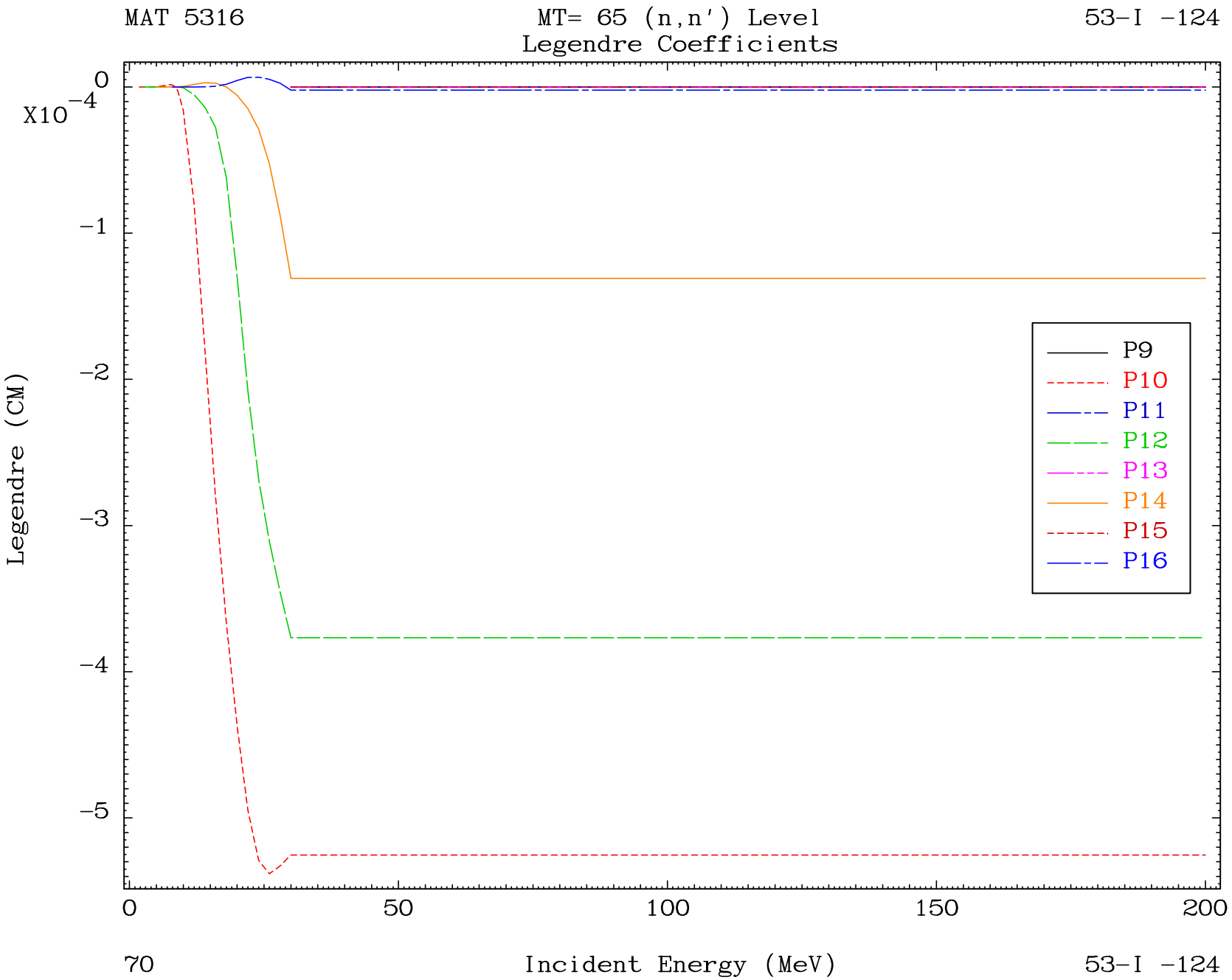

MAT 5316
MT= 63 (n,n') Level
Legendre Coefficients
53-I -124
0.0
X10^-6
-0.2
-0.4
-0.6
-0.8
-1.0
Legendre (CM)
50
100
150
200
65
Incident Energy (MeV)
53-I -124
P28
P29
P30
P31
P32
P33
P34
P35
P36

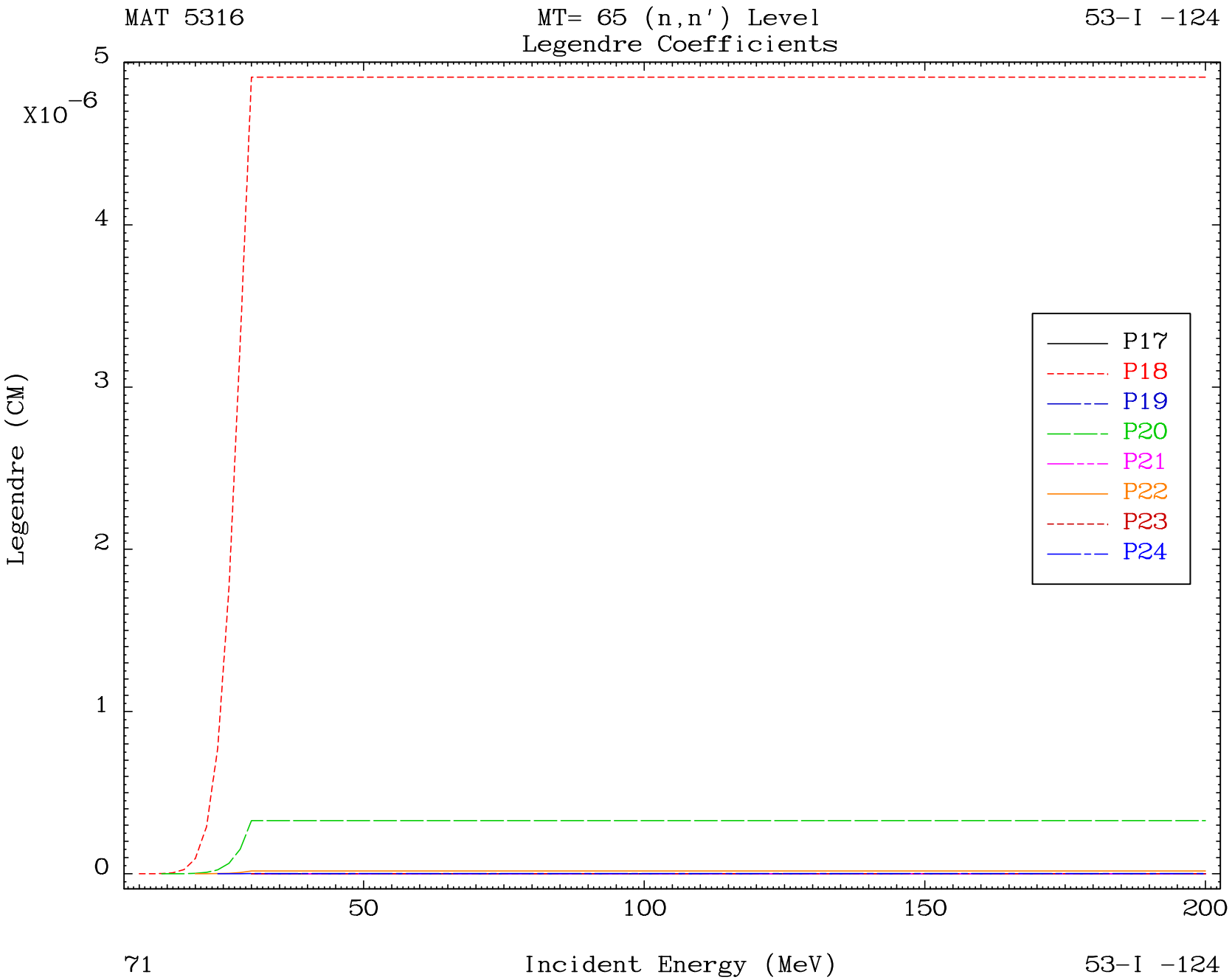

MAT 5316
MT= 64 (n,n') Level
Legendre Coefficients
53-I -124
0.02
0.01
0.00
-0.01
-0.02
-0.03
Legendre (CM)
0
50
100
150
200
66
Incident Energy (MeV)
53-I -124
P1
P2
P3
P4
P5
P6
P7
P8

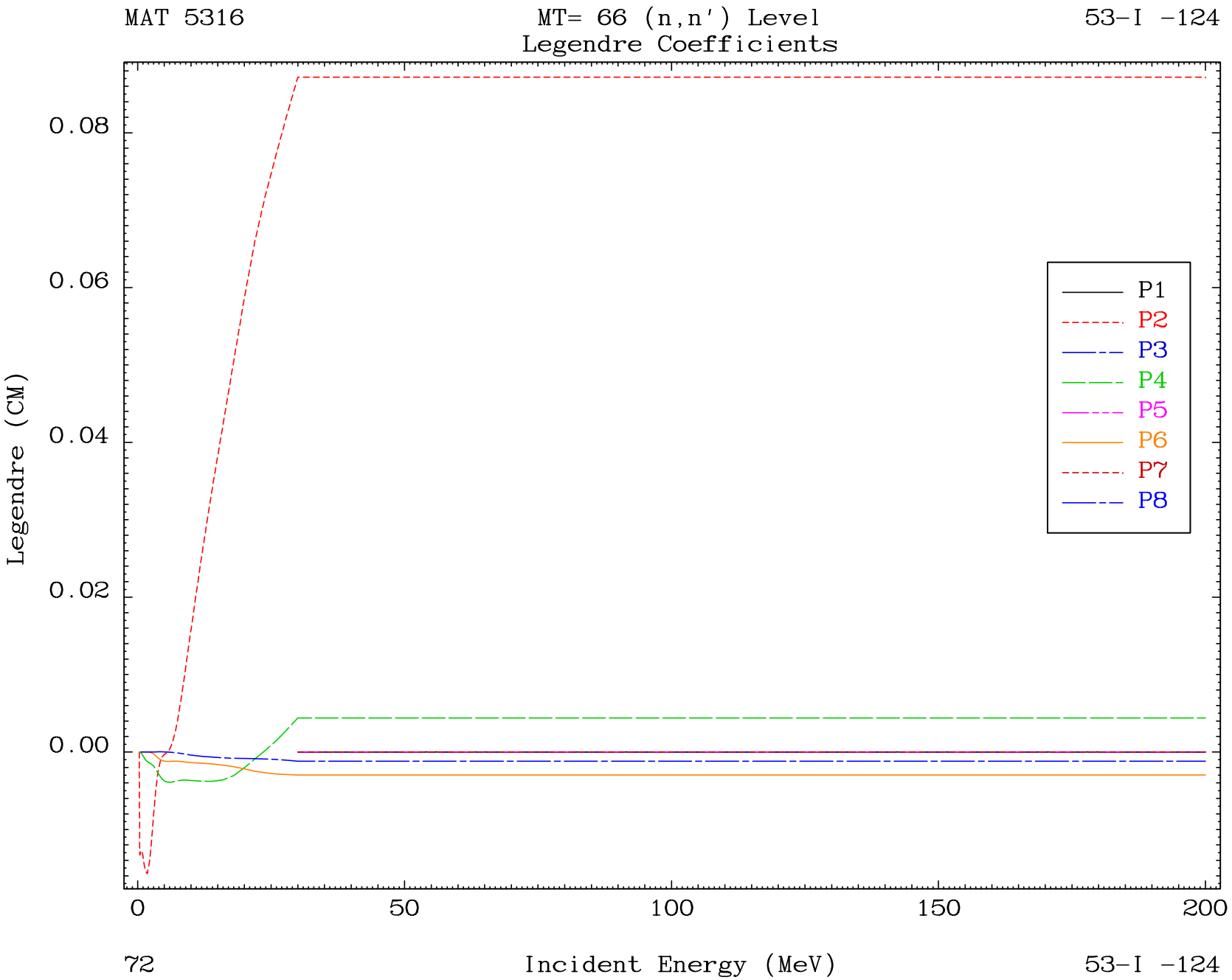

MAT 5316
MT= 64 (n,n') Level
Legendre Coefficients
53-I -124
X10^-4
3
2
1
0
Legendre (CM)
P9
P10
P11
P12
P13
P14
P15
P16
0
50
100
150
200
67
Incident Energy (MeV)
53-I -124

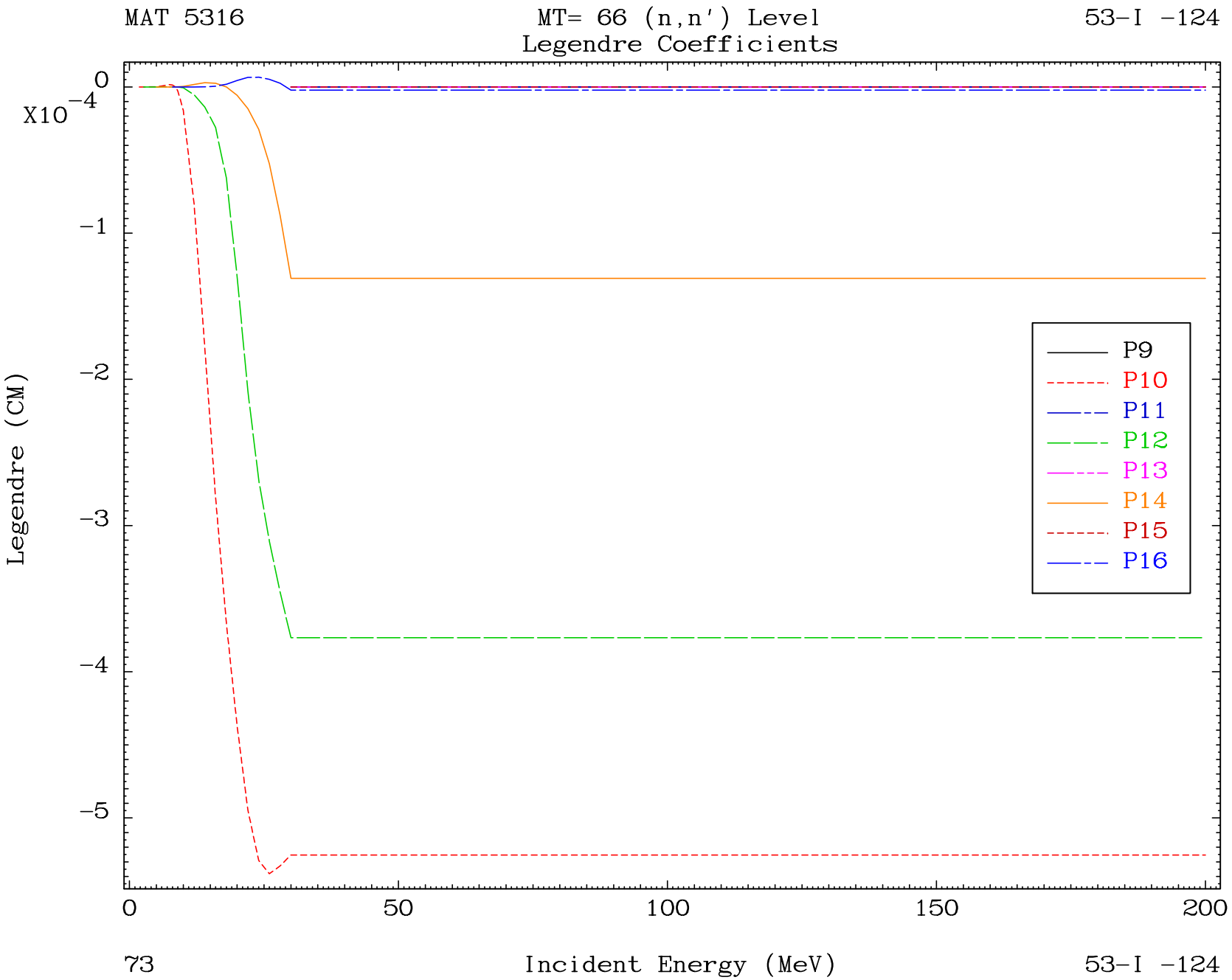

MAT 5316
MT= 64 (n,n') Level
Legendre Coefficients
53-I -124
0
X10−6
−2
−4
−6
−8
Legendre (CM)
50
100
150
200
68
Incident Energy (MeV)
53-I -124
P17
P18
P19
P20
P21
P22
P23
P24

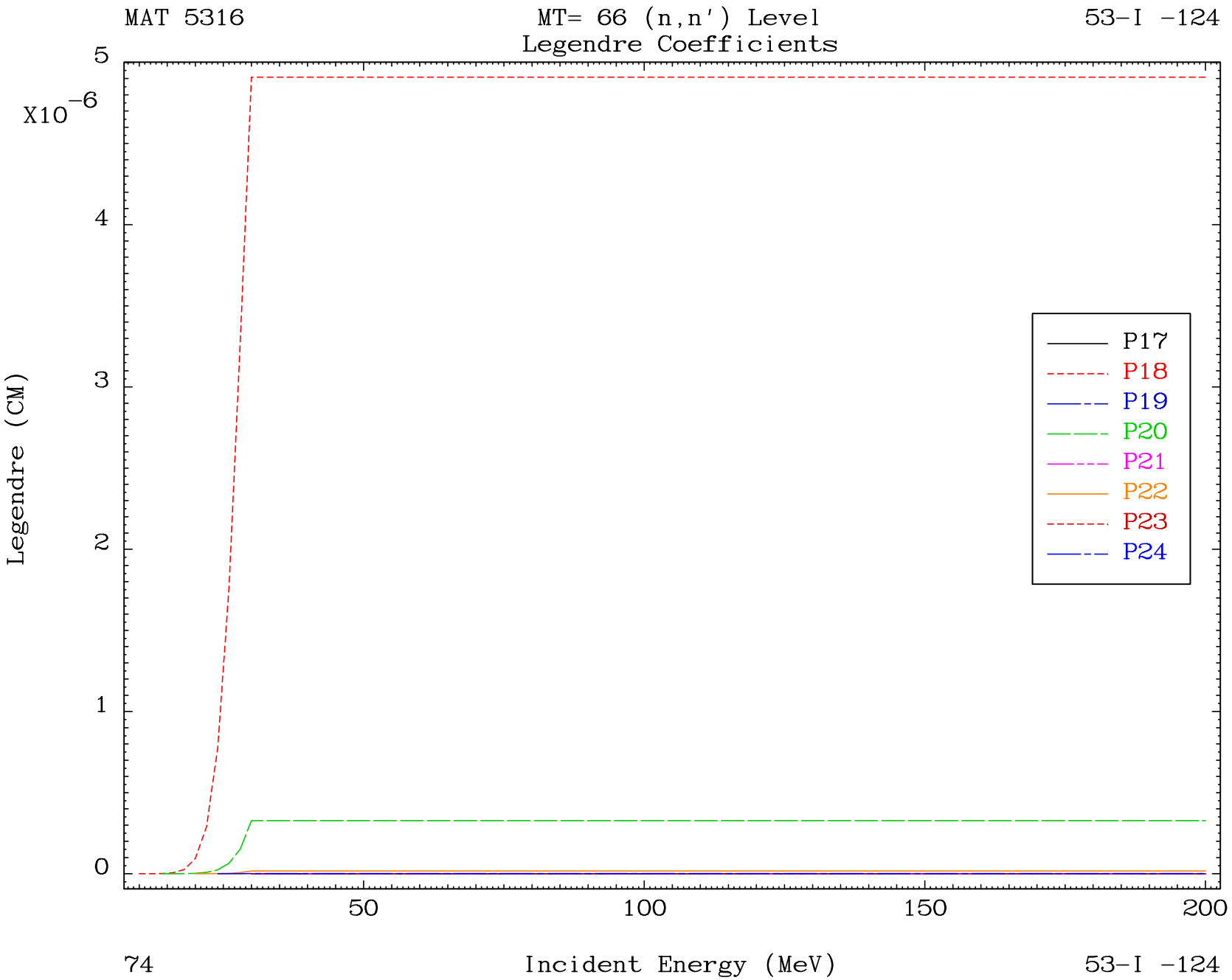

MAT 5316
MT= 65 (n,n') Level
Legendre Coefficients
53-I -124
0.08
0.06
0.04
0.02
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
0
50
100
150
200
69
Incident Energy (MeV)
53-I -124

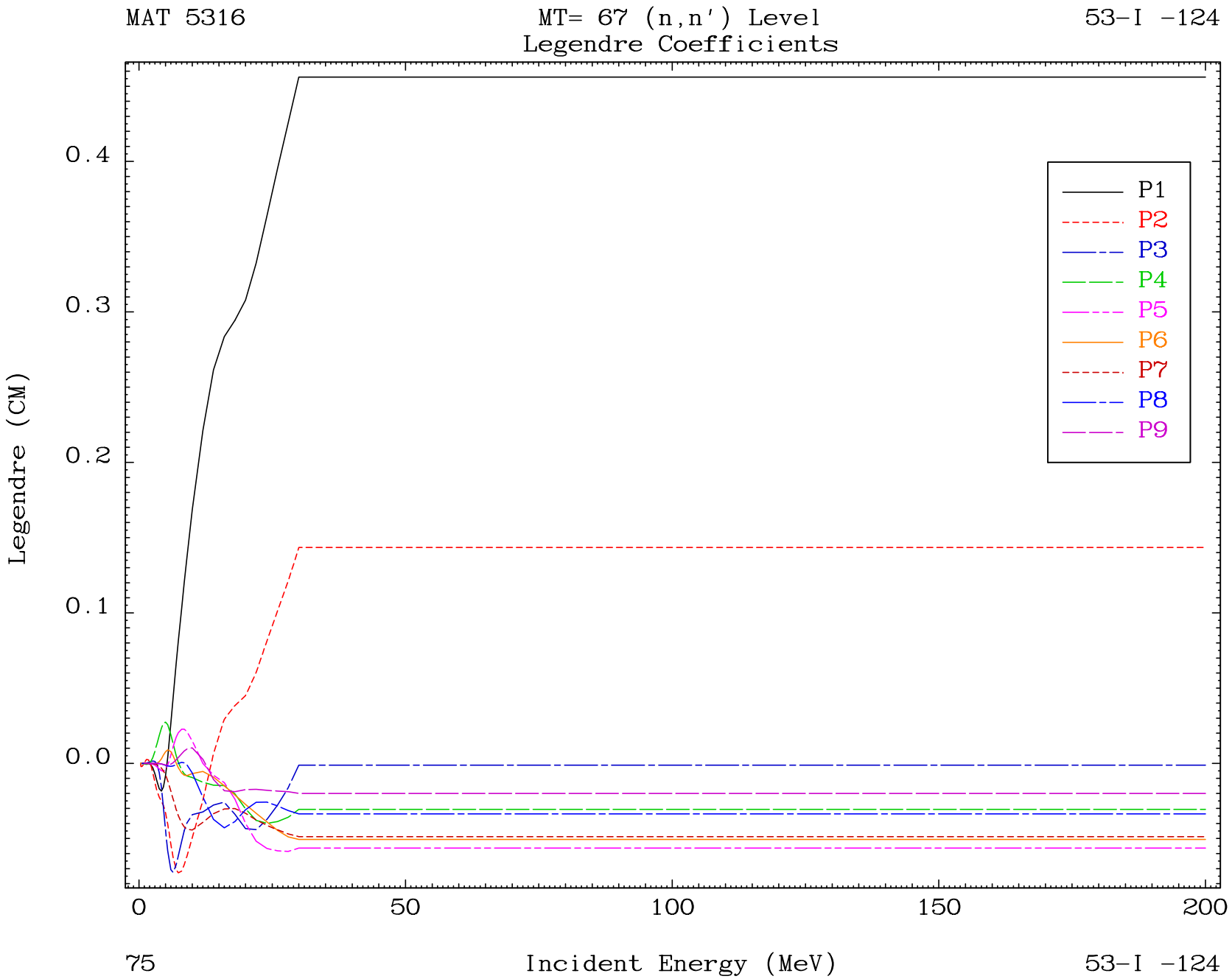

MAT 5316
MT= 65 (n,n') Level
Legendre Coefficients
53-I -124
X10^-4
0
-1
-2
-3
-4
-5
Legendre (CM)
P9
P10
P11
P12
P13
P14
P15
P16
0
50
100
150
200
70
Incident Energy (MeV)
53-I -124

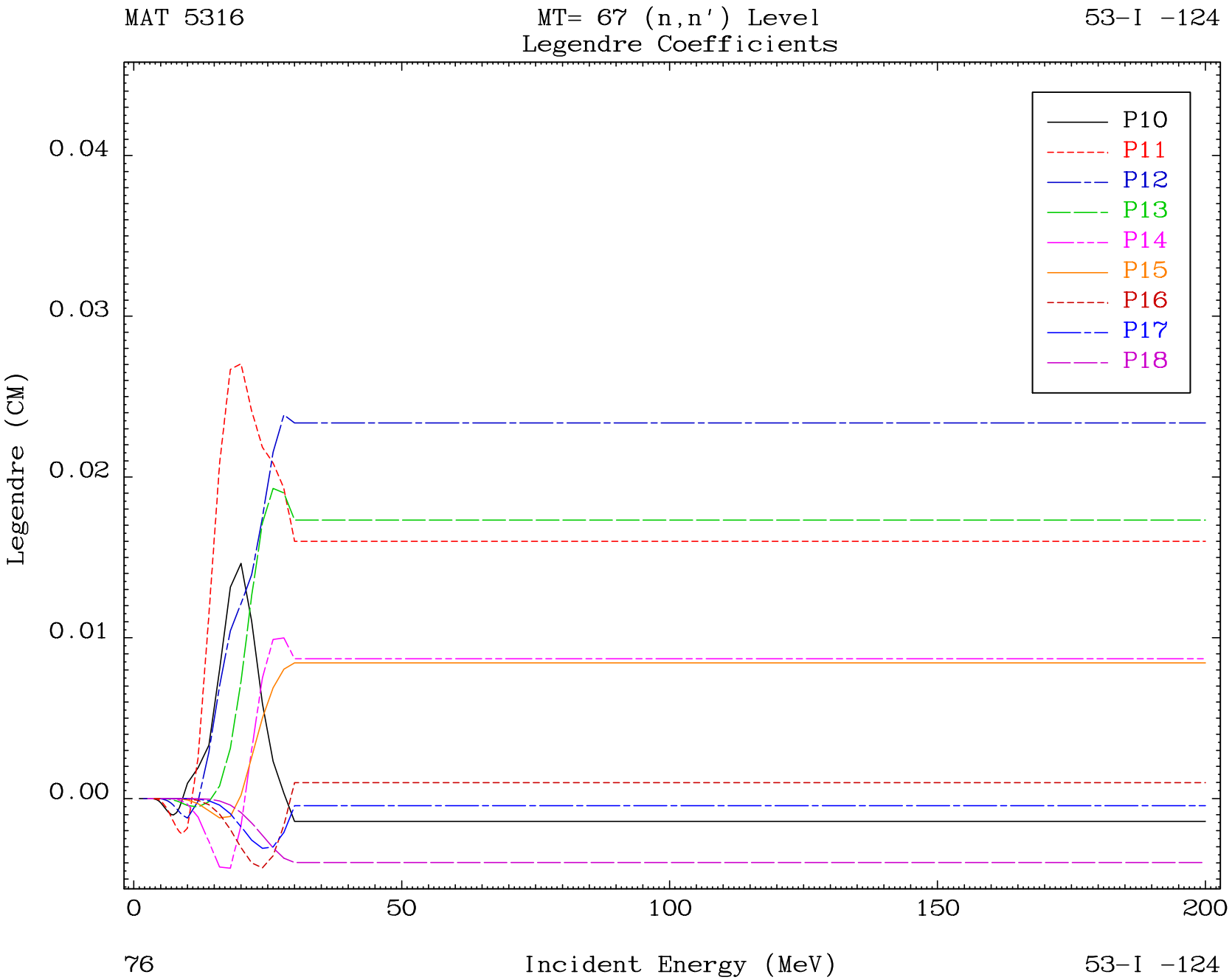

MAT 5316
MT= 65 (n,n') Level
Legendre Coefficients
53-I -124
X10^-6
5
4
3
2
1
0
Legendre (CM)
50
100
150
200
71
Incident Energy (MeV)
53-I -124
P17
P18
P19
P20
P21
P22
P23
P24

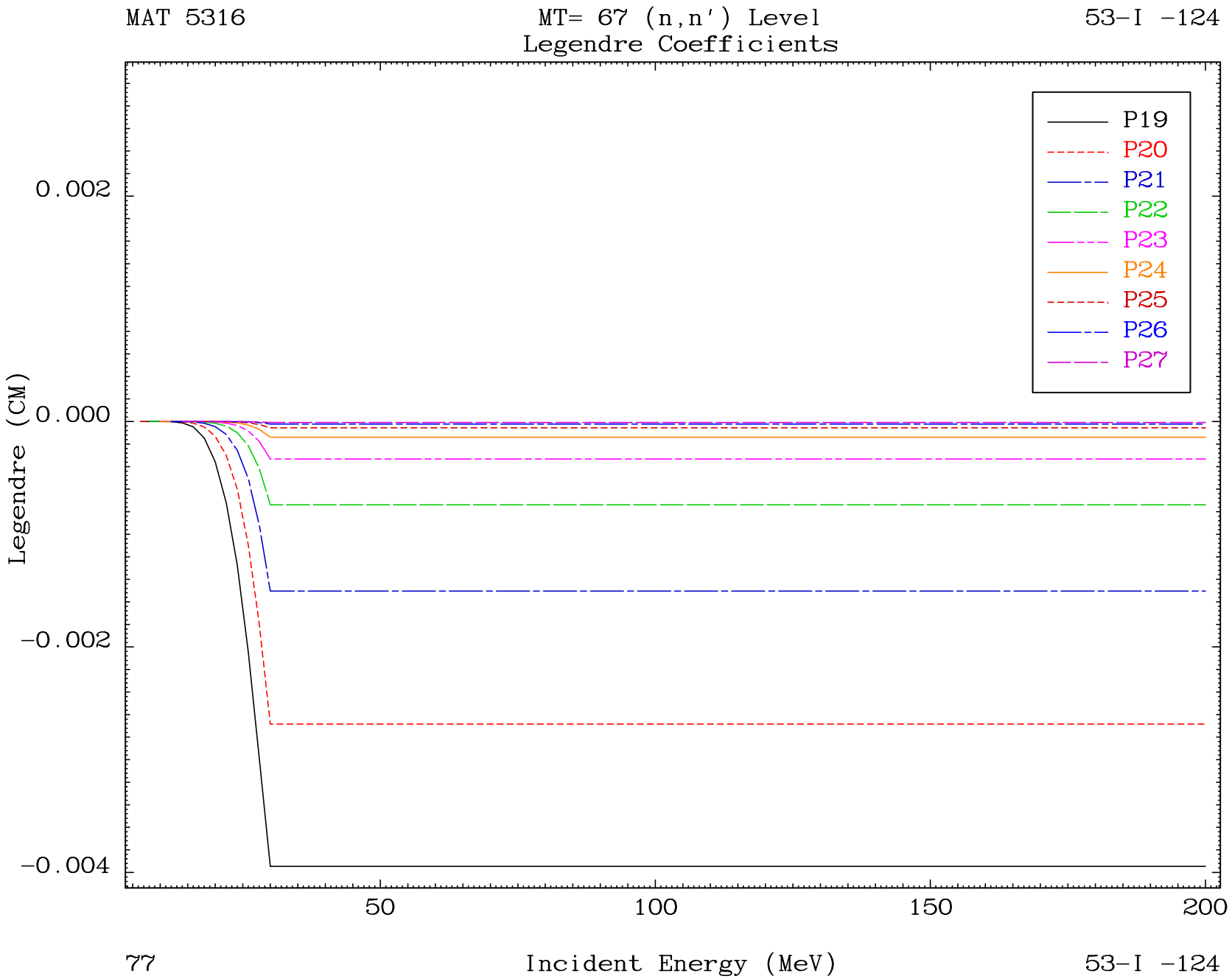

MAT 5316
MT= 66 (n,n') Level
Legendre Coefficients
53-I -124
0.08
0.06
0.04
0.02
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
0
50
100
150
200
72
Incident Energy (MeV)
53-I -124

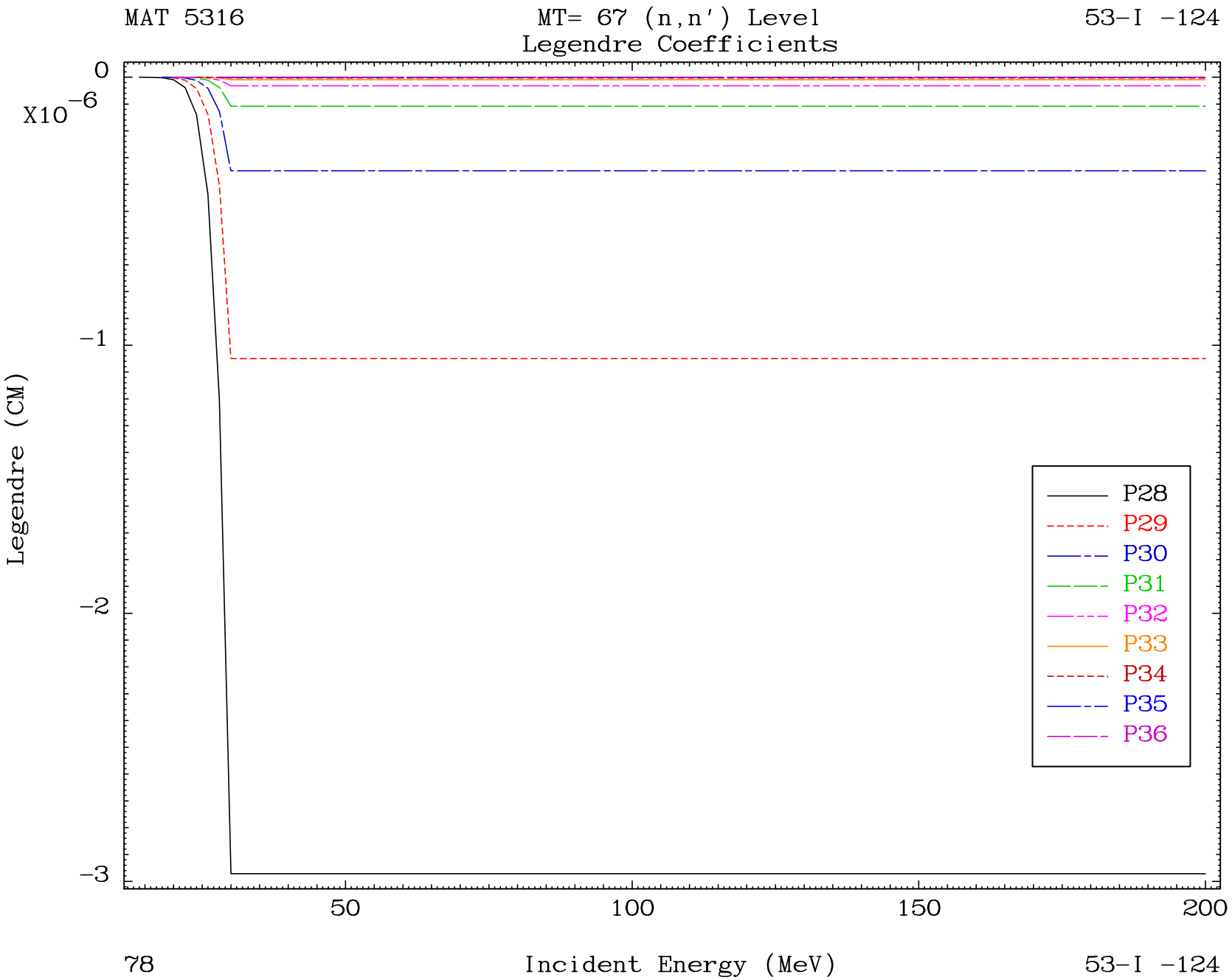

MAT 5316
MT= 66 (n,n') Level
Legendre Coefficients
53-I -124
X10^-4
0
-1
-2
-3
-4
-5
Legendre (CM)
P9
P10
P11
P12
P13
P14
P15
P16
0
50
100
150
200
73
Incident Energy (MeV)
53-I -124

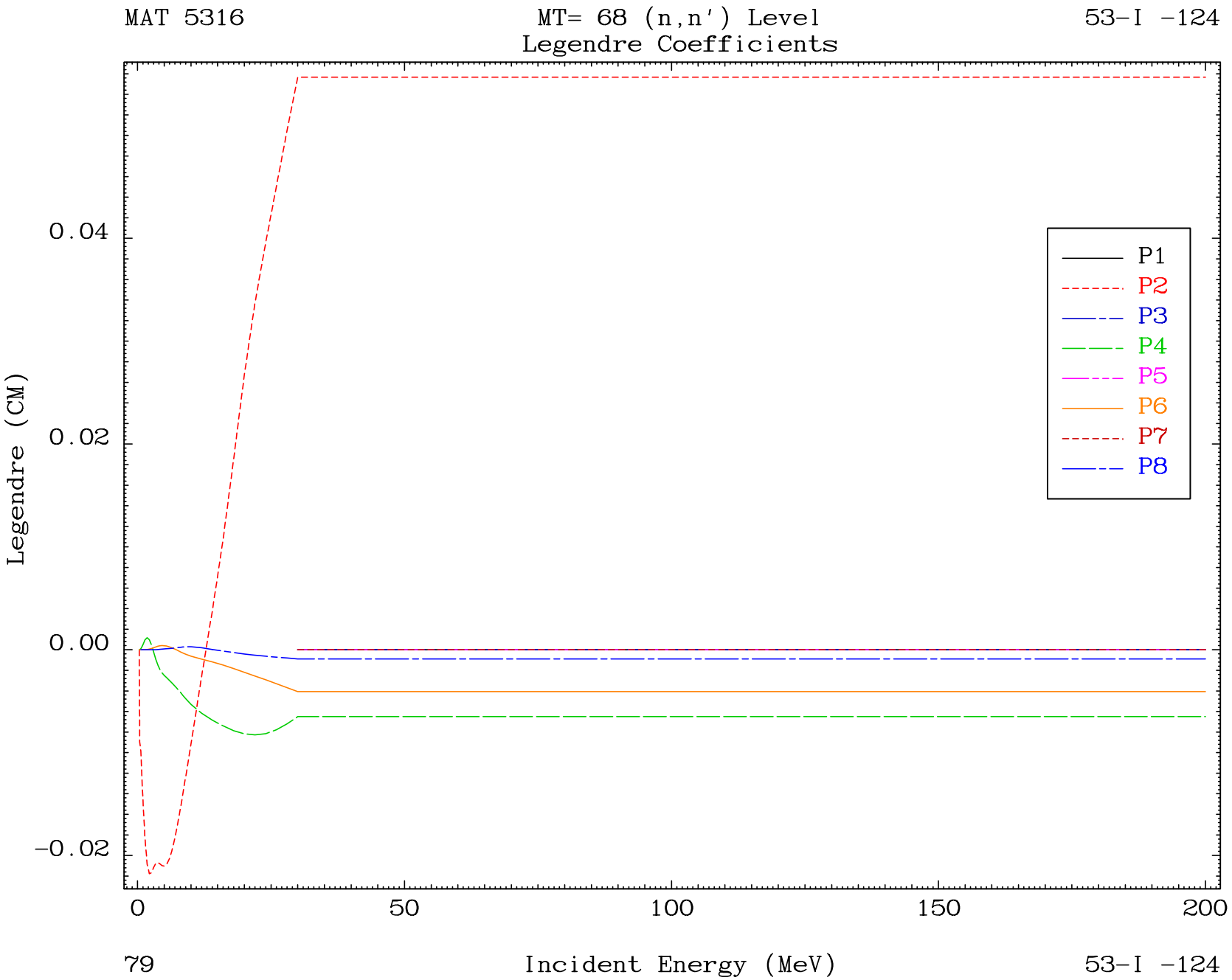

MAT 5316
MT= 66 (n,n') Level
Legendre Coefficients
53-I -124
X10^-6
5
4
3
2
1
0
Legendre (CM)
50
100
150
200
74
Incident Energy (MeV)
53-I -124
P17
P18
P19
P20
P21
P22
P23
P24

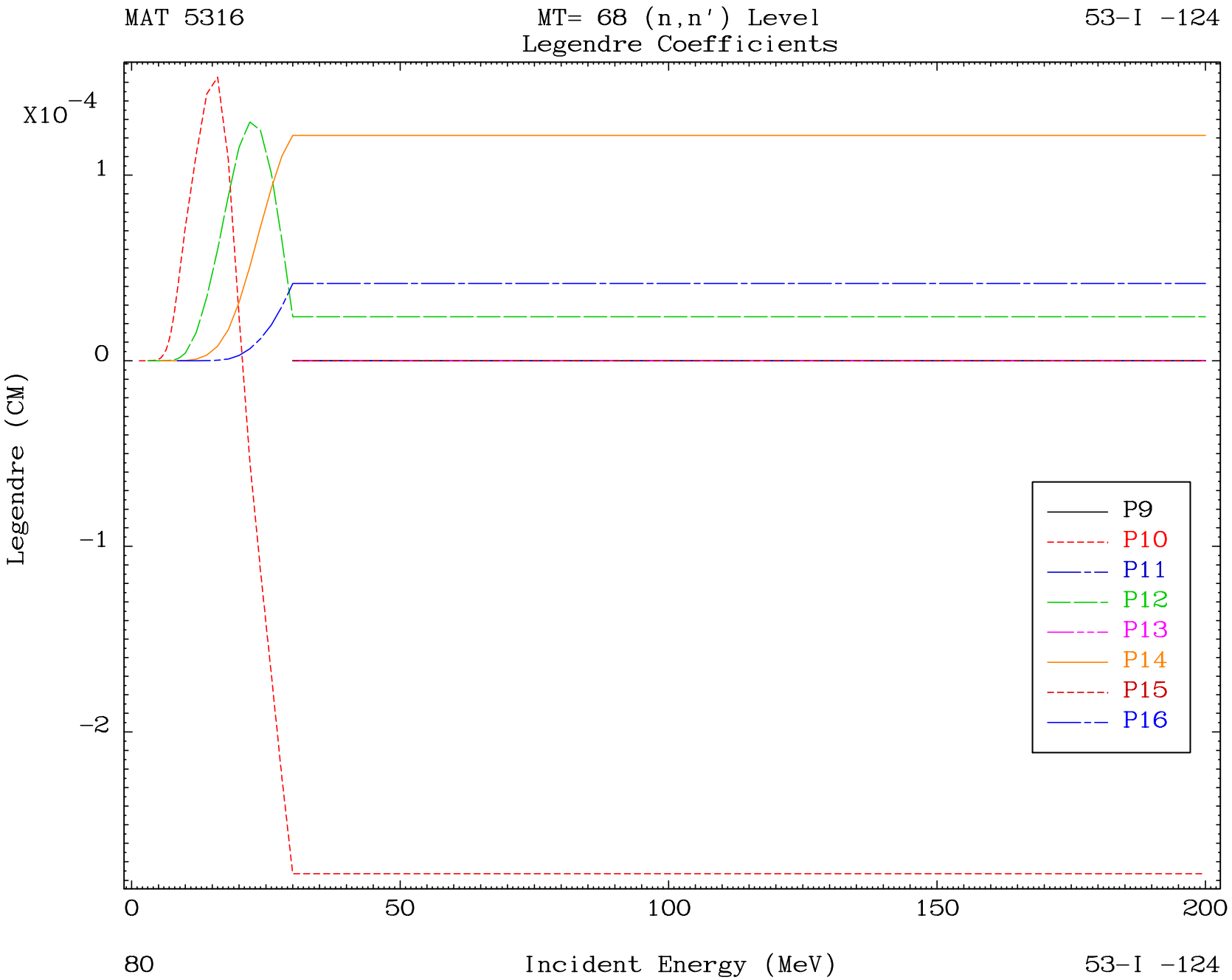

MAT 5316
MT= 67 (n,n') Level
Legendre Coefficients
53-I -124
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
75
Incident Energy (MeV)
53-I -124

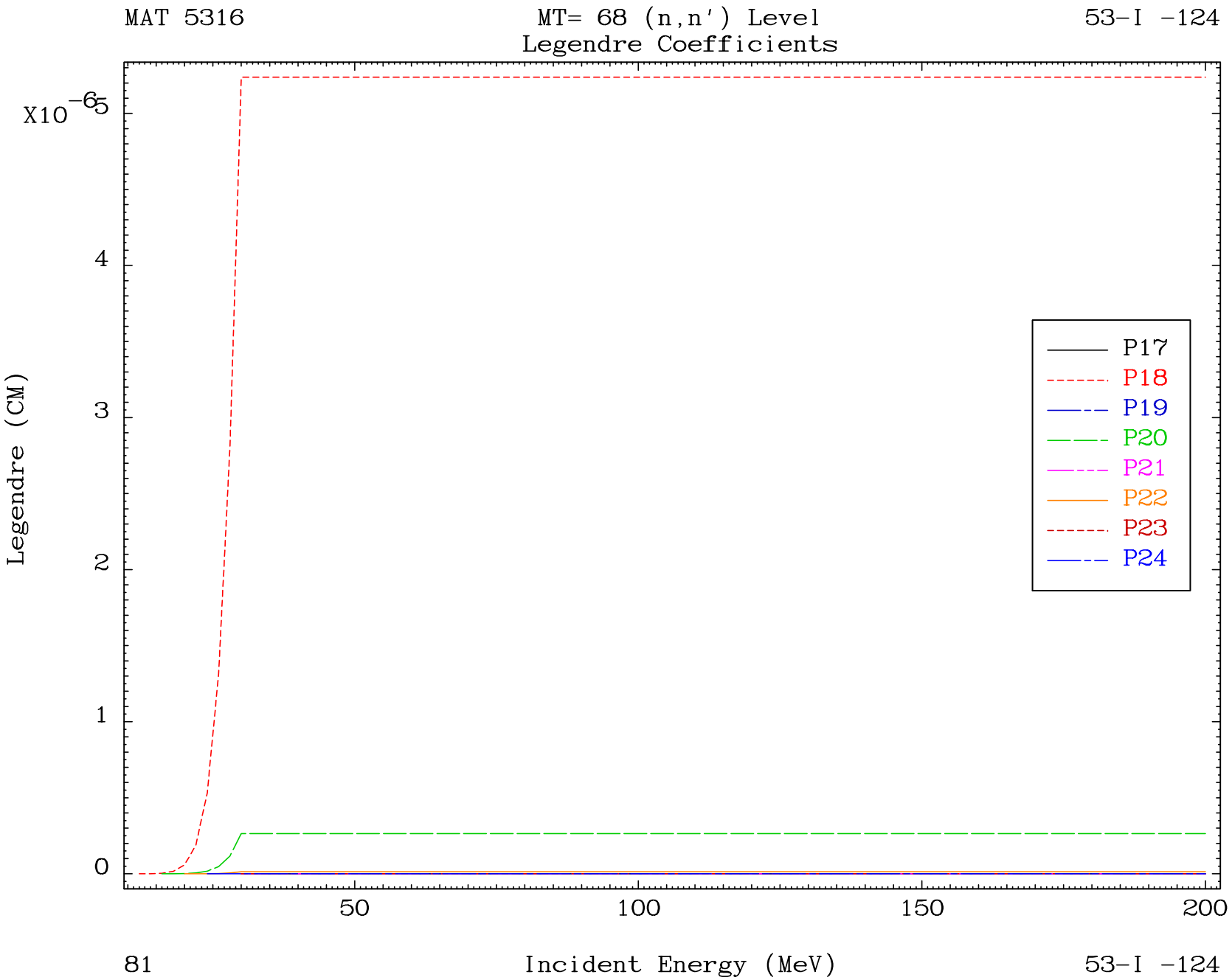

MAT 5316
MT= 67 (n,n') Level
Legendre Coefficients
53-I -124
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.04
0.03
0.02
0.01
0.00
Legendre (CM)
0
50
100
150
200
76
Incident Energy (MeV)
53-I -124

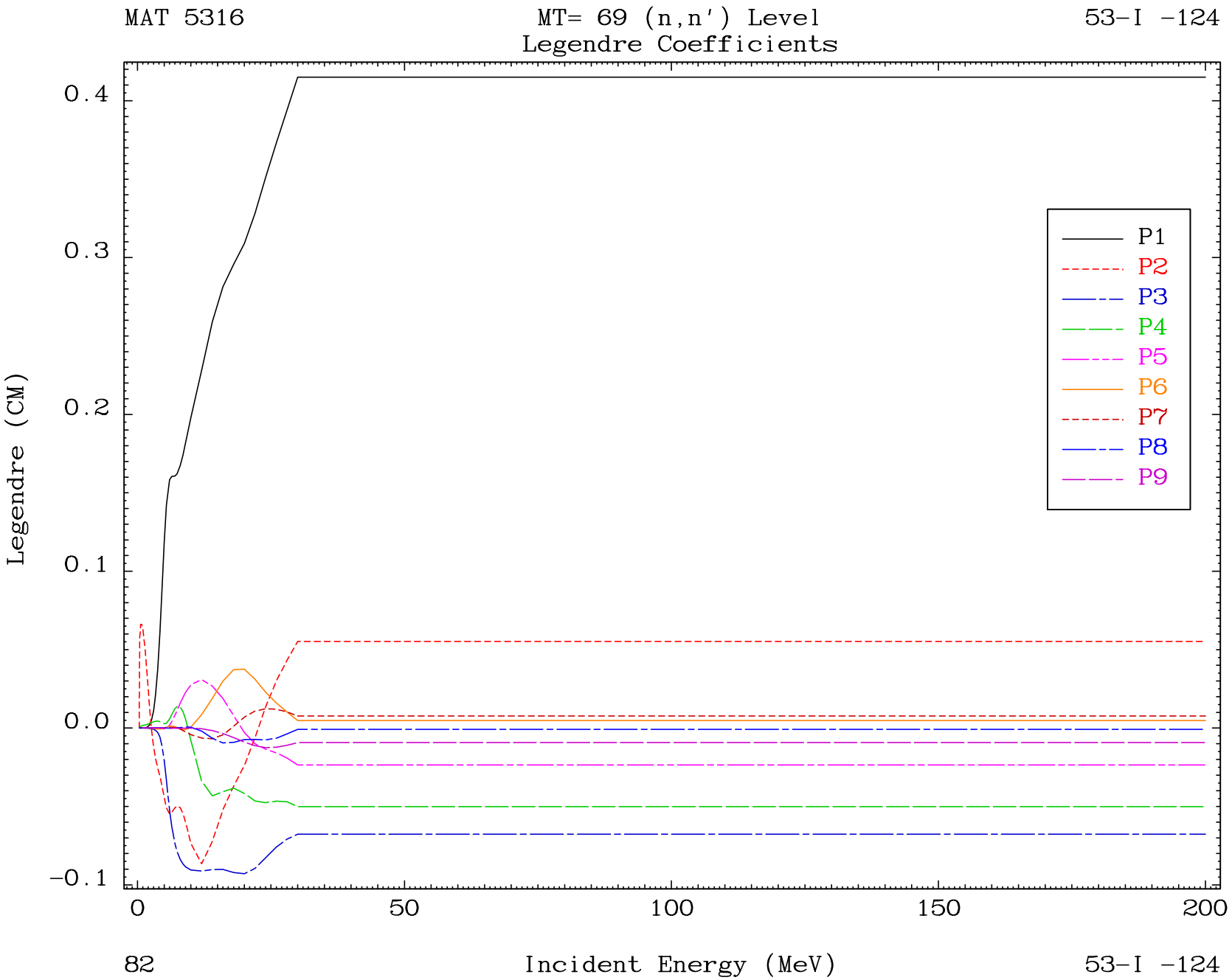

MAT 5316
MT= 67 (n,n') Level
Legendre Coefficients
53-I -124
P19
P20
P21
P22
P23
P24
P25
P26
P27
0.002
0.000
-0.002
-0.004
Legendre (CM)
50
100
150
200
77
Incident Energy (MeV)
53-I -124

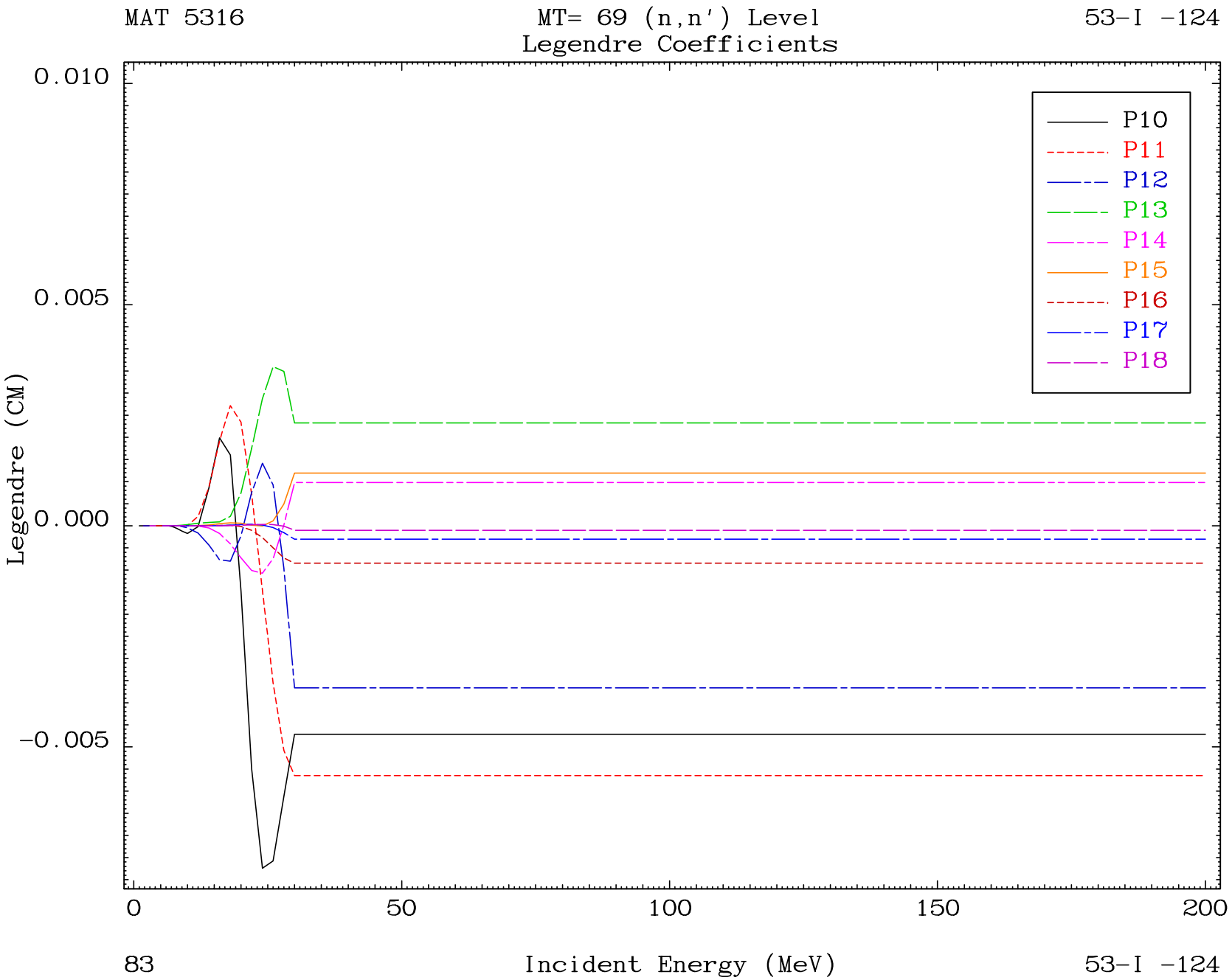

MAT 5316
MT= 67 (n,n') Level
Legendre Coefficients
53-I -124
0
X10^-6
-1
-2
-3
Legendre (CM)
50
100
150
200
78
Incident Energy (MeV)
53-I -124
P28
P29
P30
P31
P32
P33
P34
P35
P36

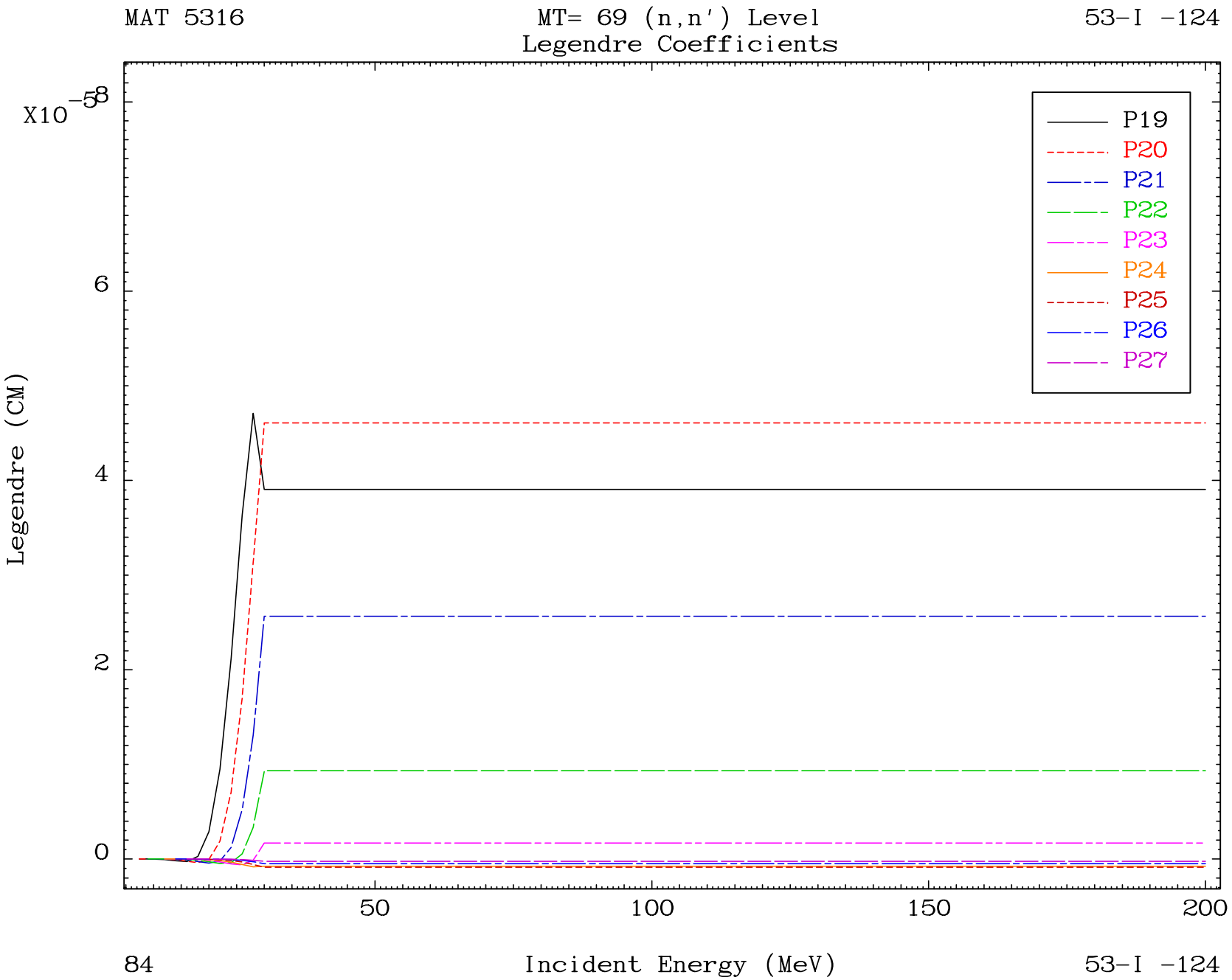

MAT 5316
MT= 68 (n,n') Level
Legendre Coefficients
53-I -124
0.04
0.02
0.00
-0.02
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
0
50
100
150
200
79
Incident Energy (MeV)
53-I -124

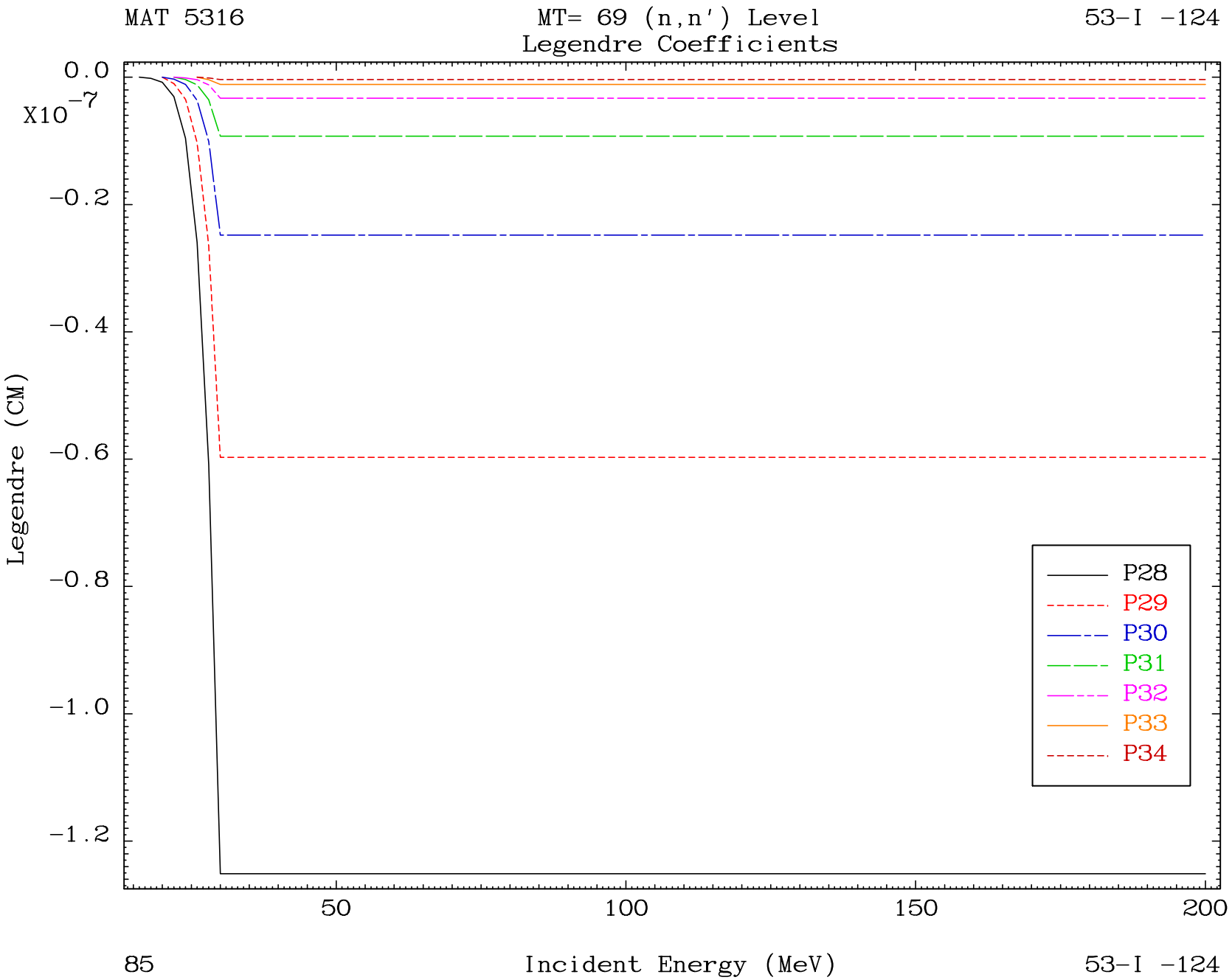

MAT 5316
MT= 68 (n,n') Level
Legendre Coefficients
53-I -124
X10^-4
1
0
-1
-2
Legendre (CM)
0
50
100
150
200
80
Incident Energy (MeV)
53-I -124
P9
P10
P11
P12
P13
P14
P15
P16

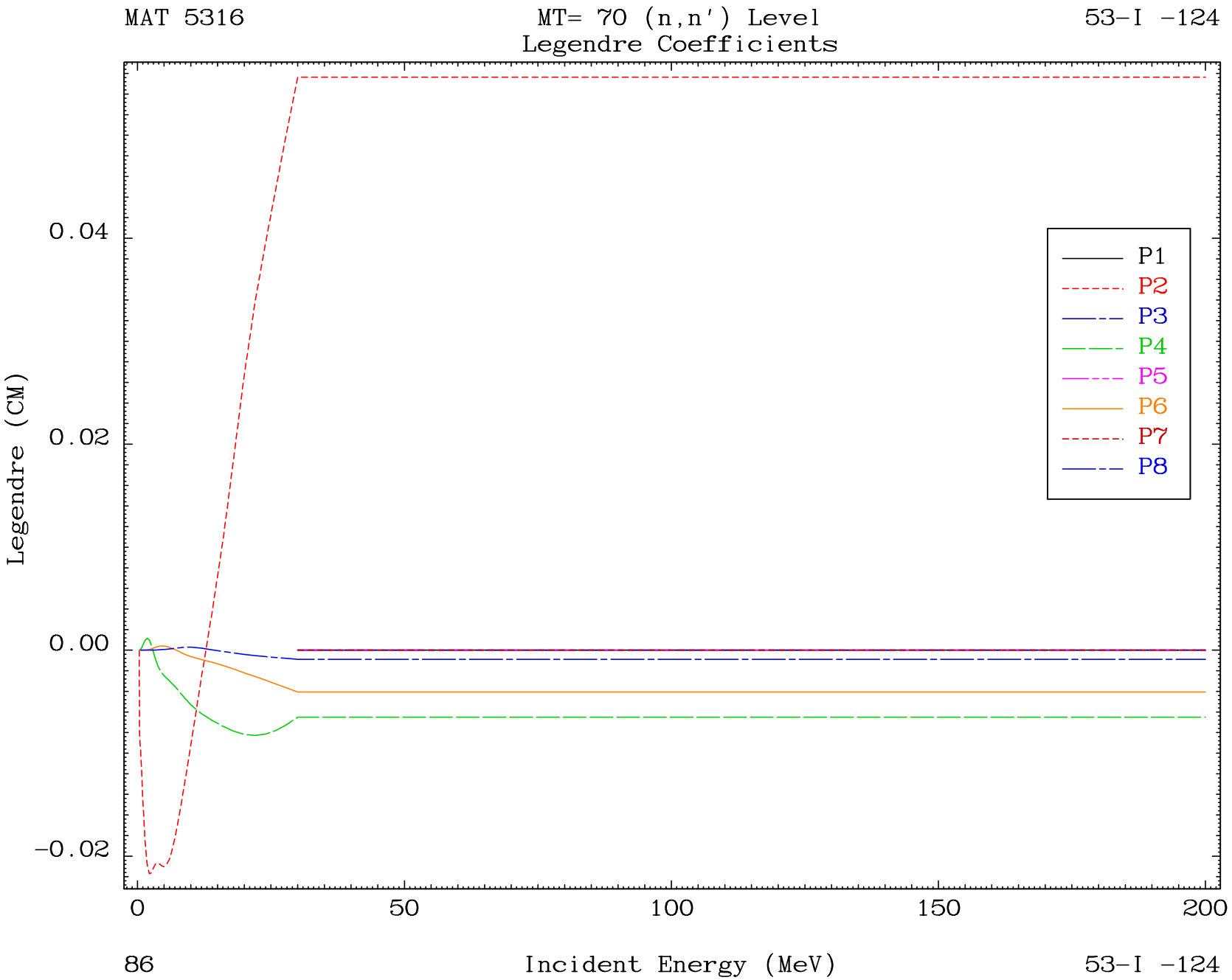

MAT 5316
MT= 68 (n,n') Level
Legendre Coefficients
53-I -124
X10^-6
5
4
3
2
1
0
Legendre (CM)
50
100
150
200
81
Incident Energy (MeV)
53-I -124
P17
P18
P19
P20
P21
P22
P23
P24

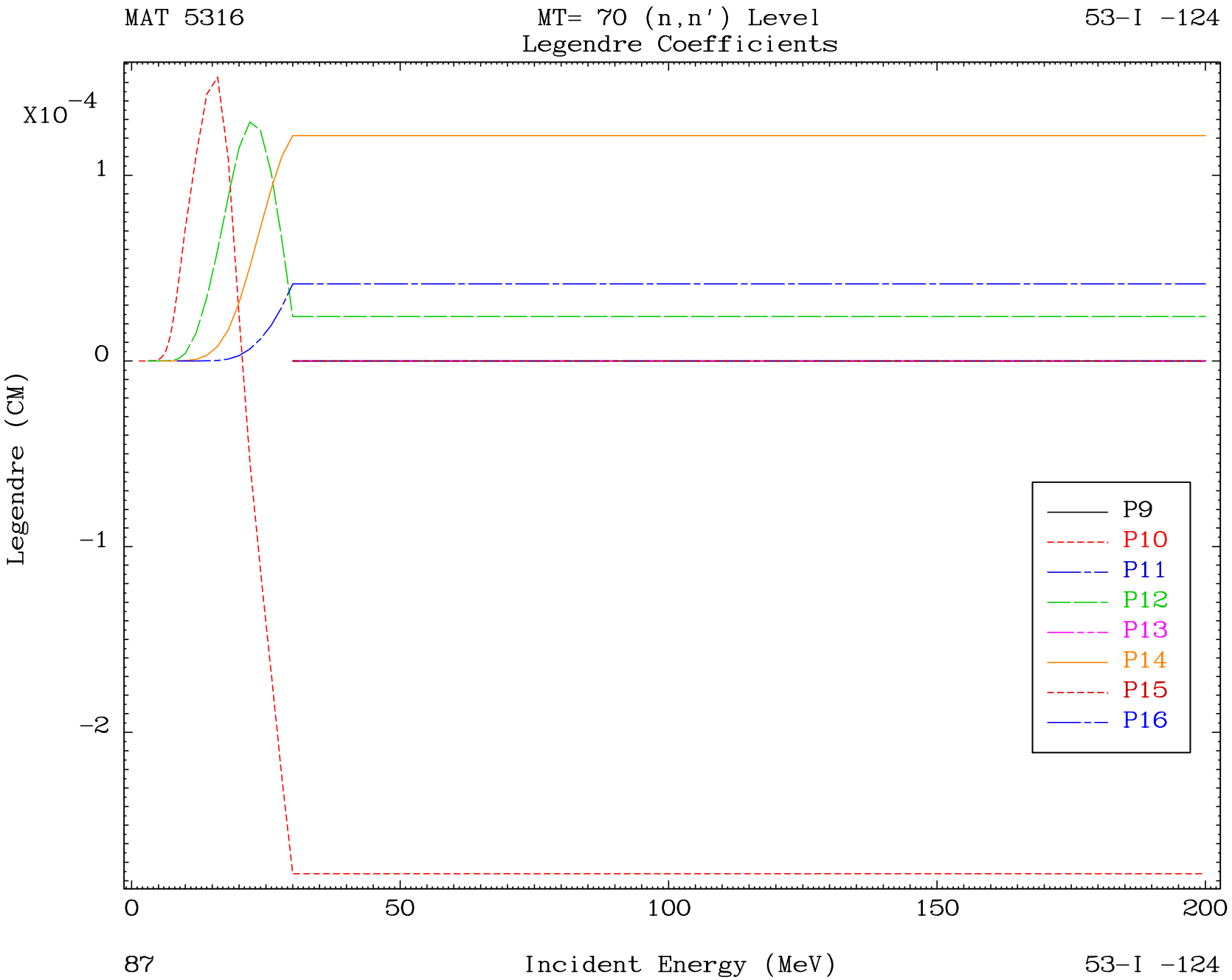

MAT 5316
MT= 69 (n,n') Level
Legendre Coefficients
53-I -124
0.4
0.3
0.2
0.1
0.0
-0.1
Legendre (CM)
0
50
100
150
200
82
Incident Energy (MeV)
53-I -124
P1
P2
P3
P4
P5
P6
P7
P8
P9

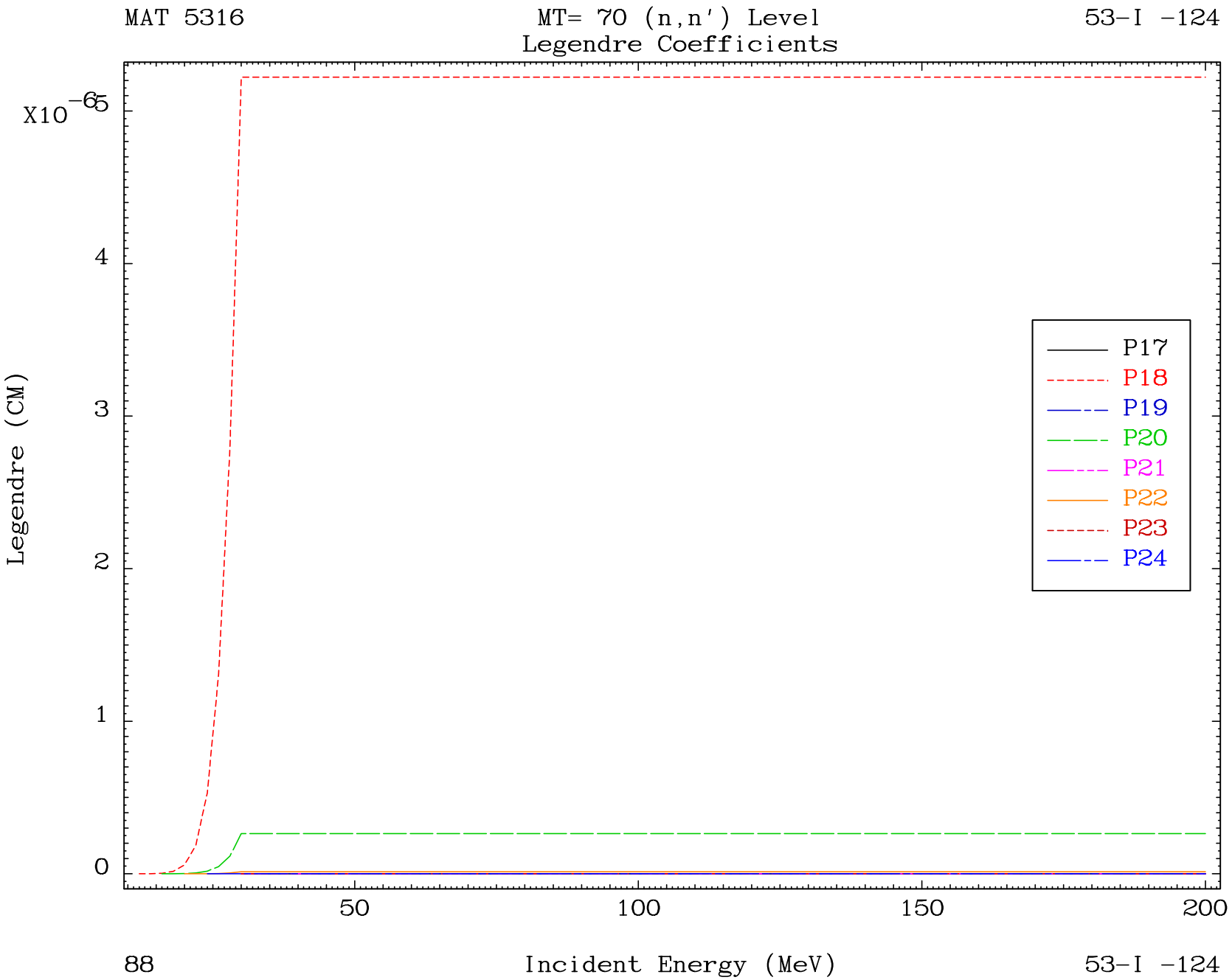

MAT 5316
MT= 69 (n,n') Level
Legendre Coefficients
53-I -124
0.010
0.005
0.000
-0.005
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
83
Incident Energy (MeV)
53-I -124

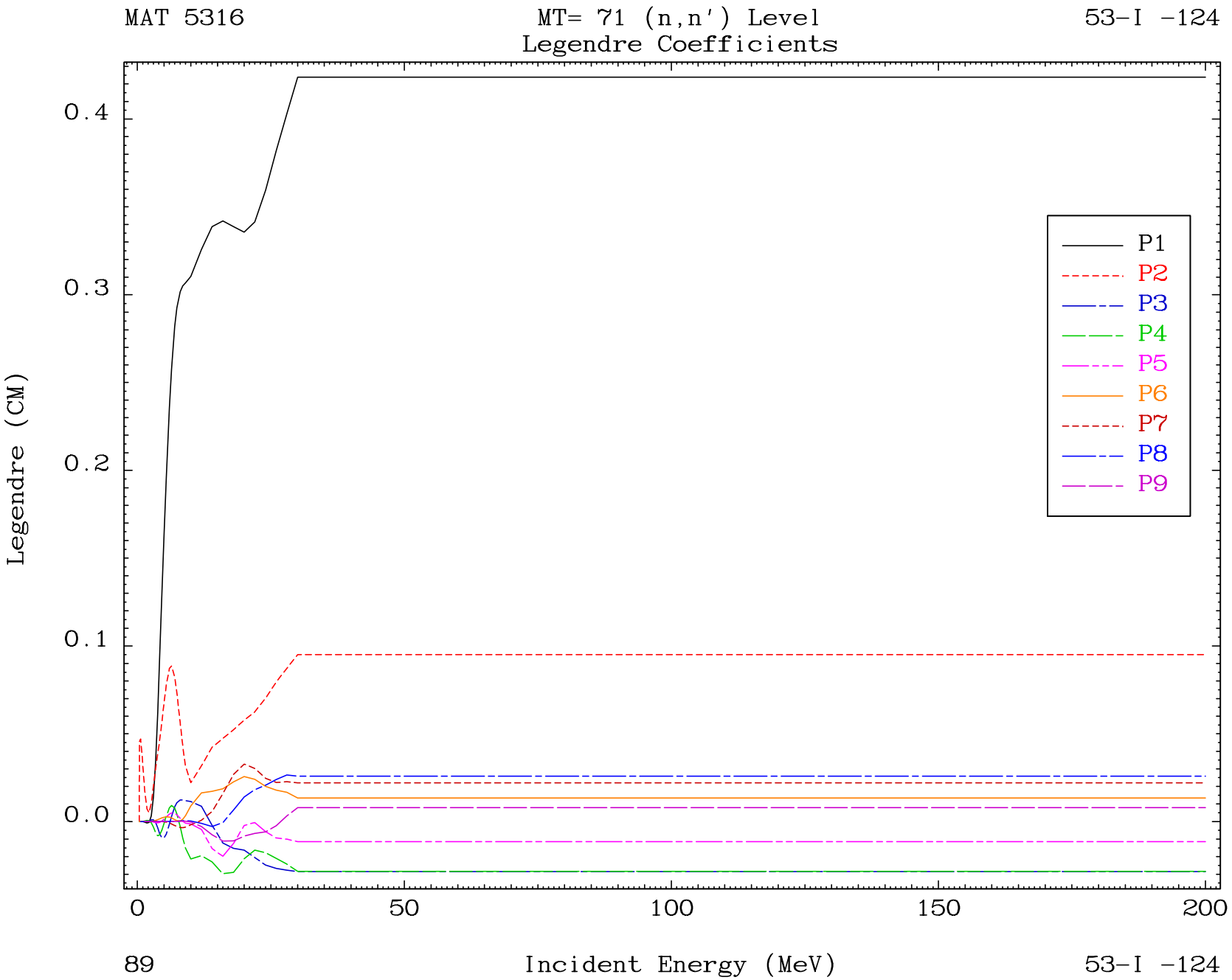

MAT 5316
MT= 69 (n,n') Level
Legendre Coefficients
53-I -124
X10 -5
8
6
4
2
0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
84
Incident Energy (MeV)
53-I -124

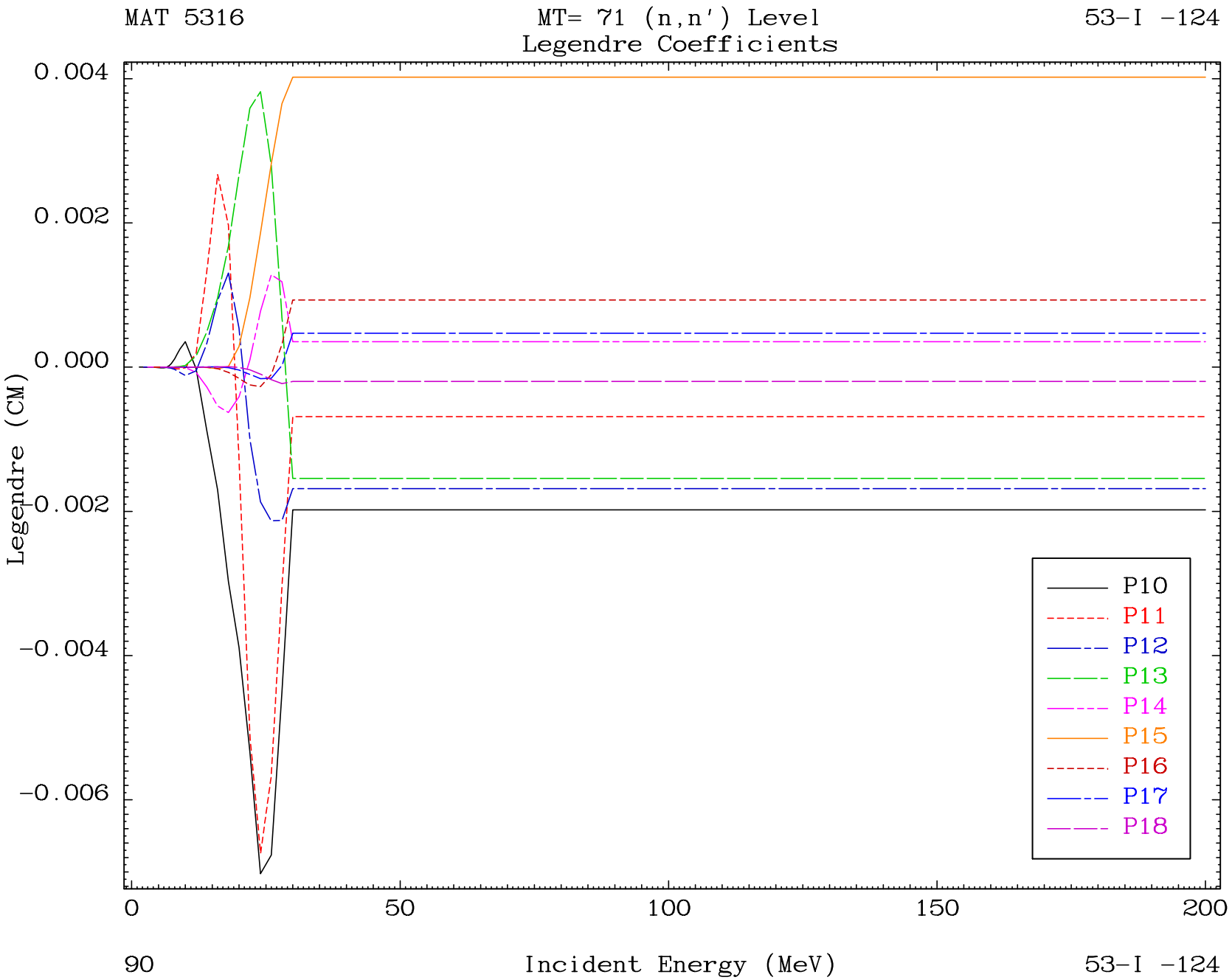

MAT 5316
MT= 69 (n,n') Level
Legendre Coefficients
53-I -124
0.0
X10^-7
-0.2
-0.4
-0.6
-0.8
-1.0
-1.2
Legendre (CM)
50
100
150
200
85
Incident Energy (MeV)
53-I -124
P28
P29
P30
P31
P32
P33
P34

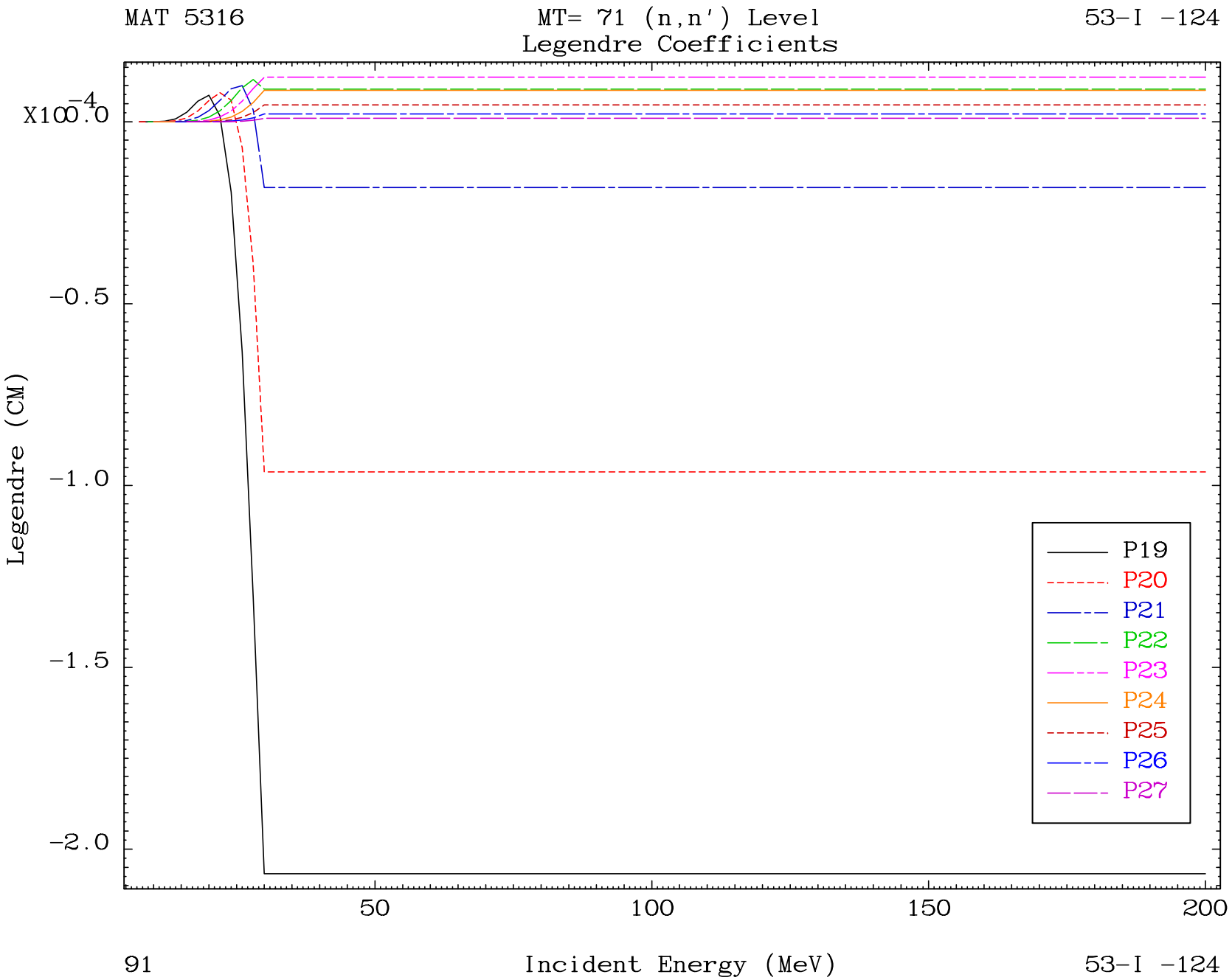

MAT 5316
MT= 70 (n,n') Level
Legendre Coefficients
53-I -124
0.04
0.02
0.00
-0.02
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
0
50
100
150
200
86
Incident Energy (MeV)
53-I -124

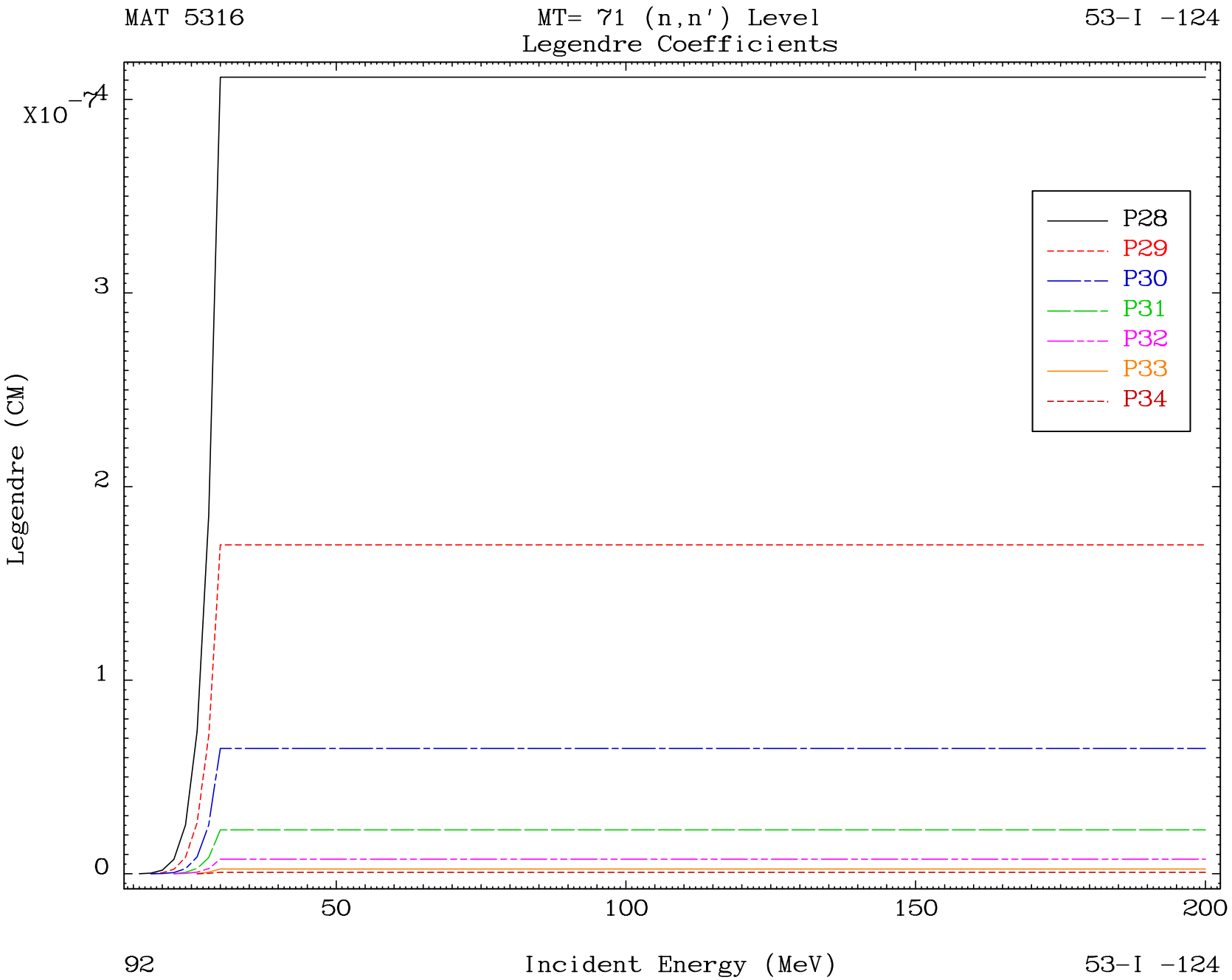

MAT 5316
MT= 70 (n,n') Level
Legendre Coefficients
53-I -124
X10^-4
1
0
-1
-2
Legendre (CM)
0
50
100
150
200
87
Incident Energy (MeV)
53-I -124
P9
P10
P11
P12
P13
P14
P15
P16

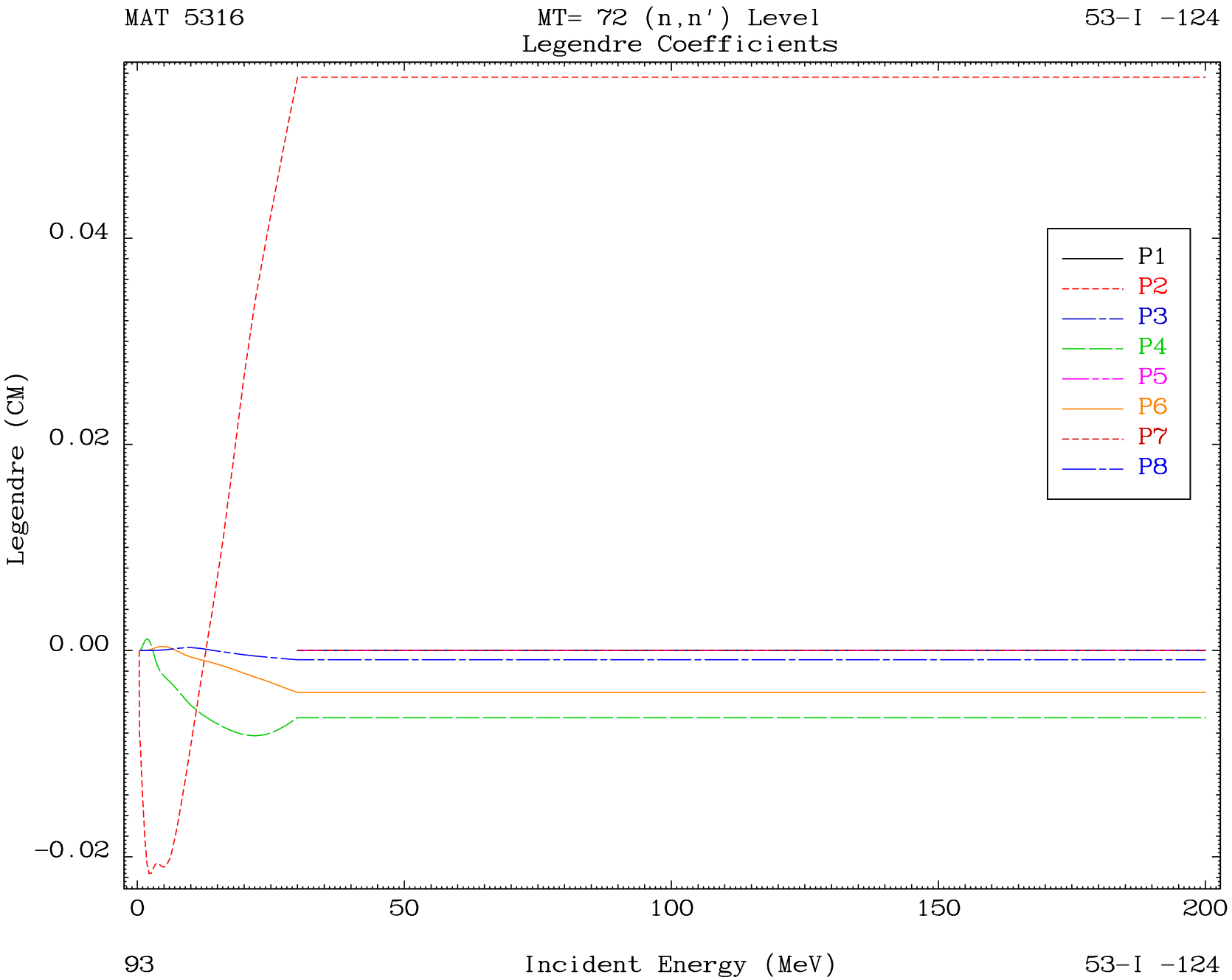

MAT 5316
MT= 70 (n,n') Level
Legendre Coefficients
53-I -124
X10^-6
5
4
3
2
1
0
Legendre (CM)
50
100
150
200
88
Incident Energy (MeV)
53-I -124
P17
P18
P19
P20
P21
P22
P23
P24

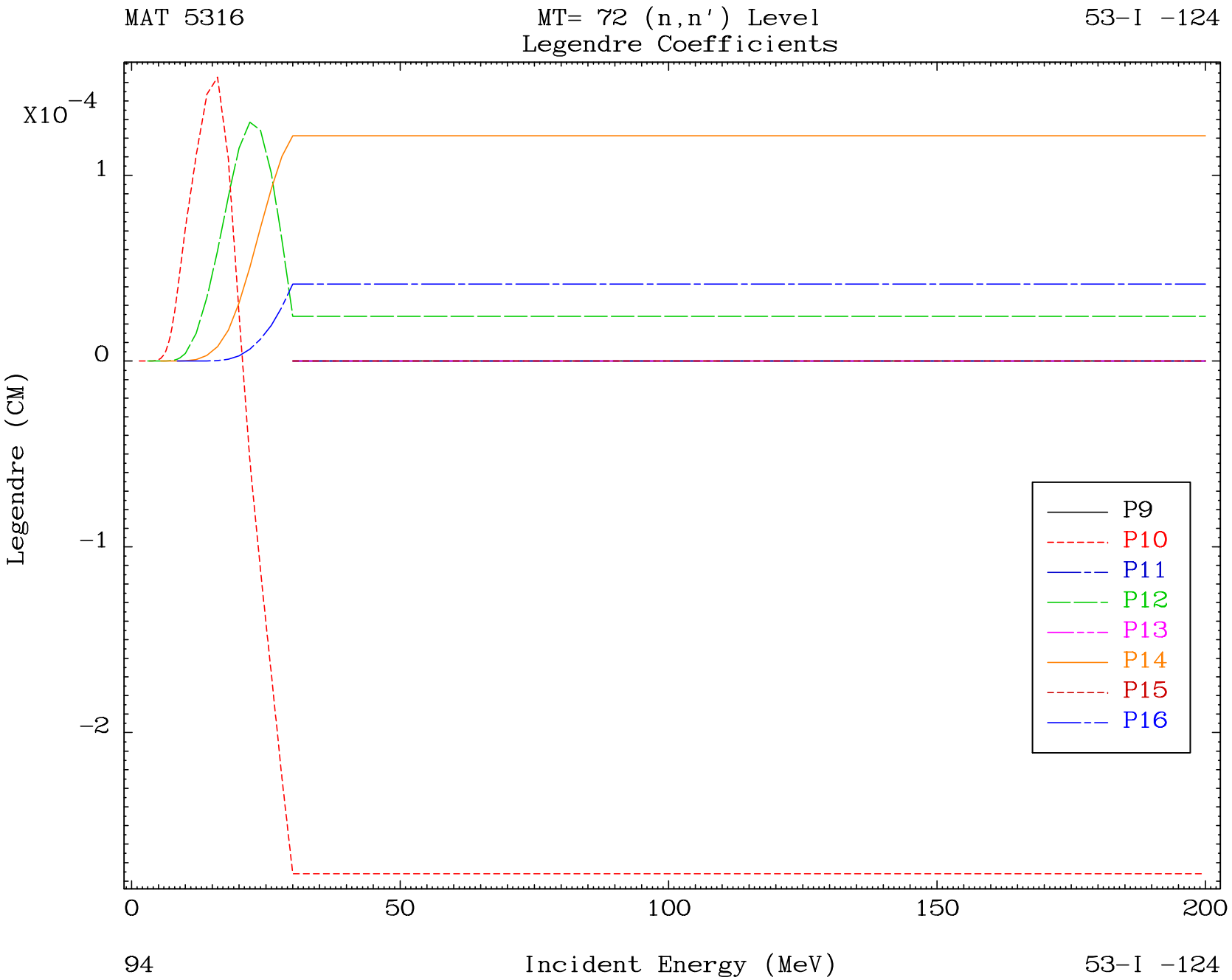

MAT 5316
MT= 71 (n,n') Level
Legendre Coefficients
53-I -124
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
89
Incident Energy (MeV)
53-I -124

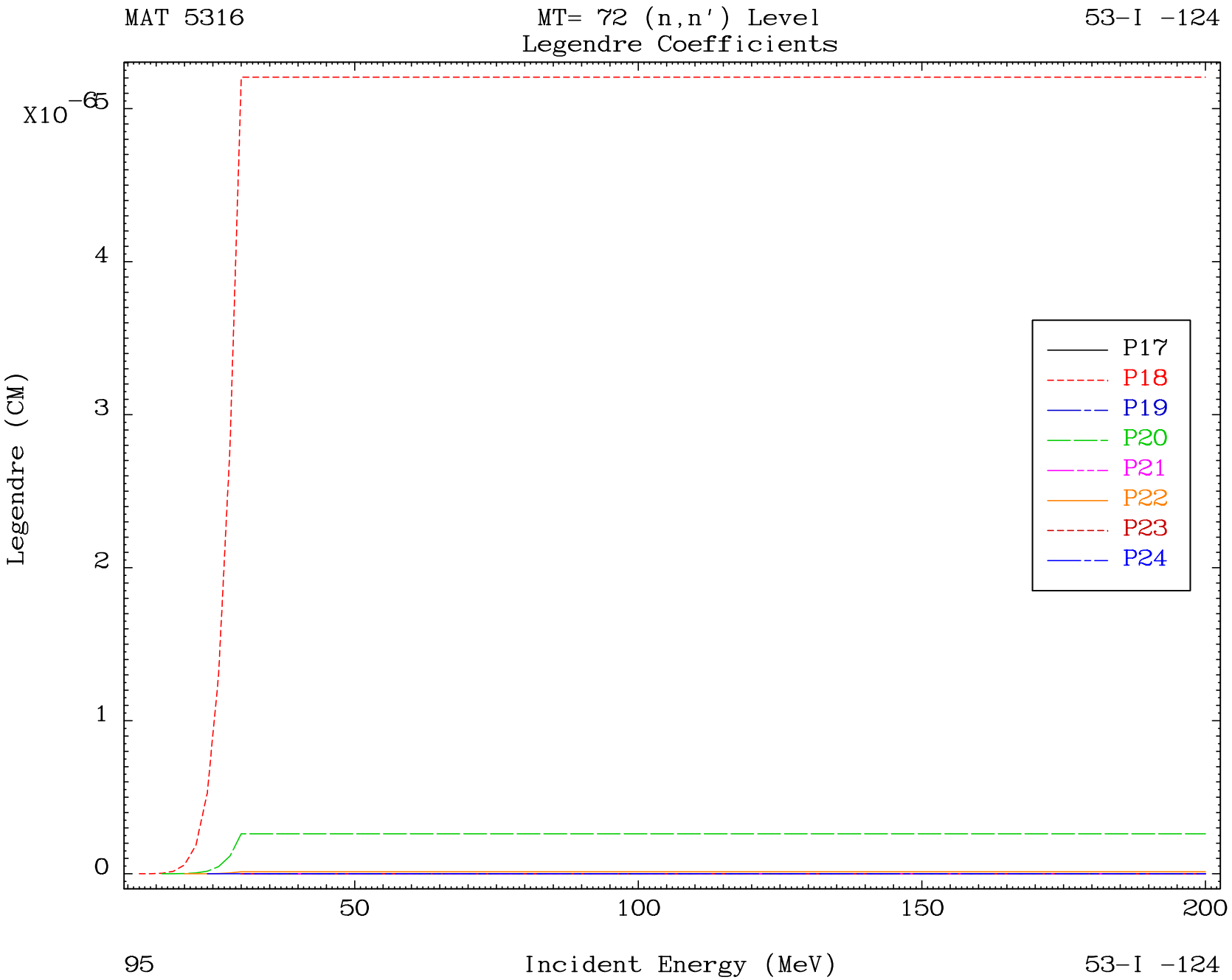

MAT 5316
MT= 71 (n,n') Level
Legendre Coefficients
53-I -124
0.004
0.002
0.000
-0.002
-0.004
-0.006
Legendre (CM)
0
50
100
150
200
90
Incident Energy (MeV)
53-I -124
P10
P11
P12
P13
P14
P15
P16
P17
P18

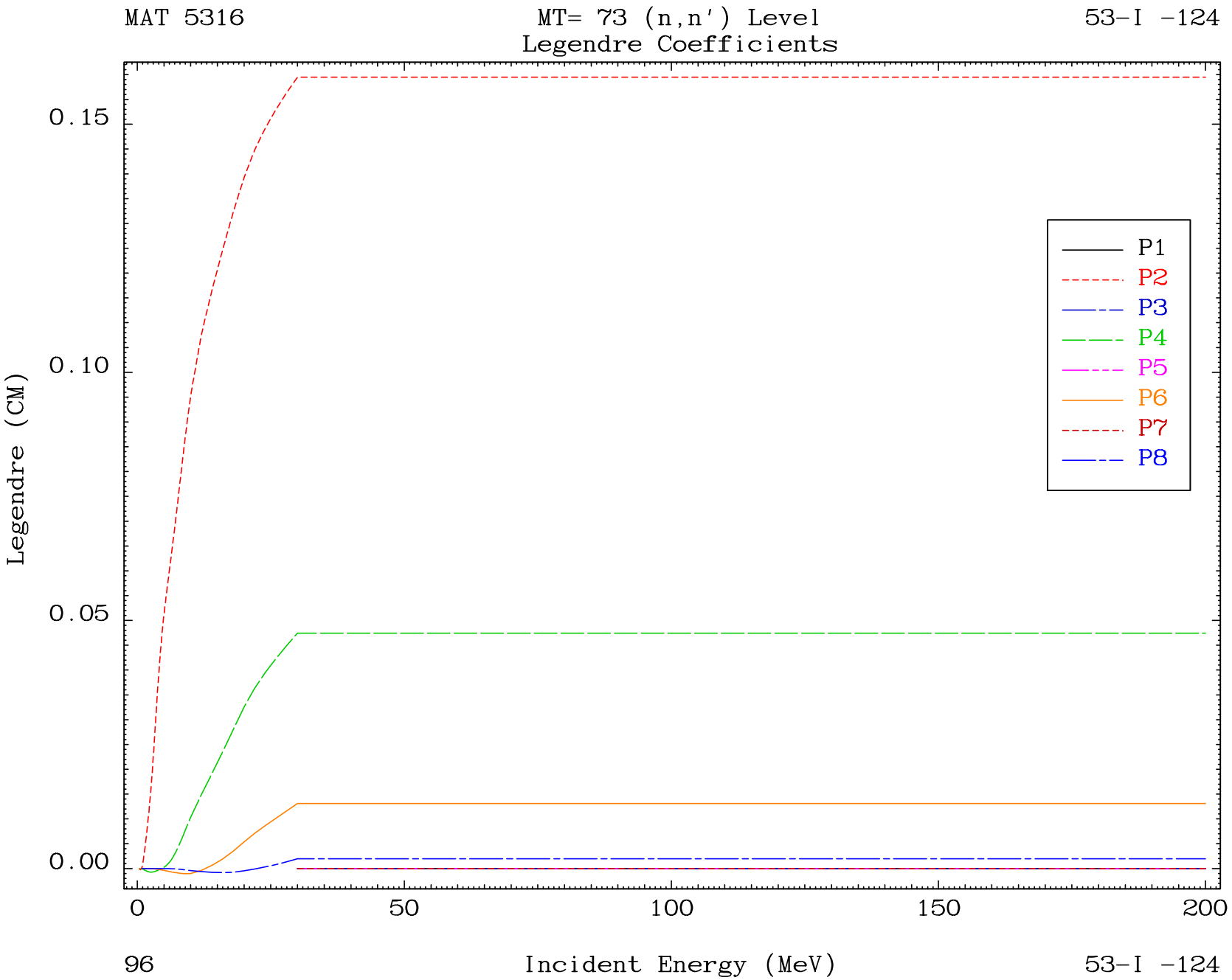

MAT 5316
MT= 71 (n,n') Level
Legendre Coefficients
53-I -124
X10^-4
0.0
-0.5
-1.0
-1.5
-2.0
Legendre (CM)
50
100
150
200
91
Incident Energy (MeV)
53-I -124
P19
P20
P21
P22
P23
P24
P25
P26
P27

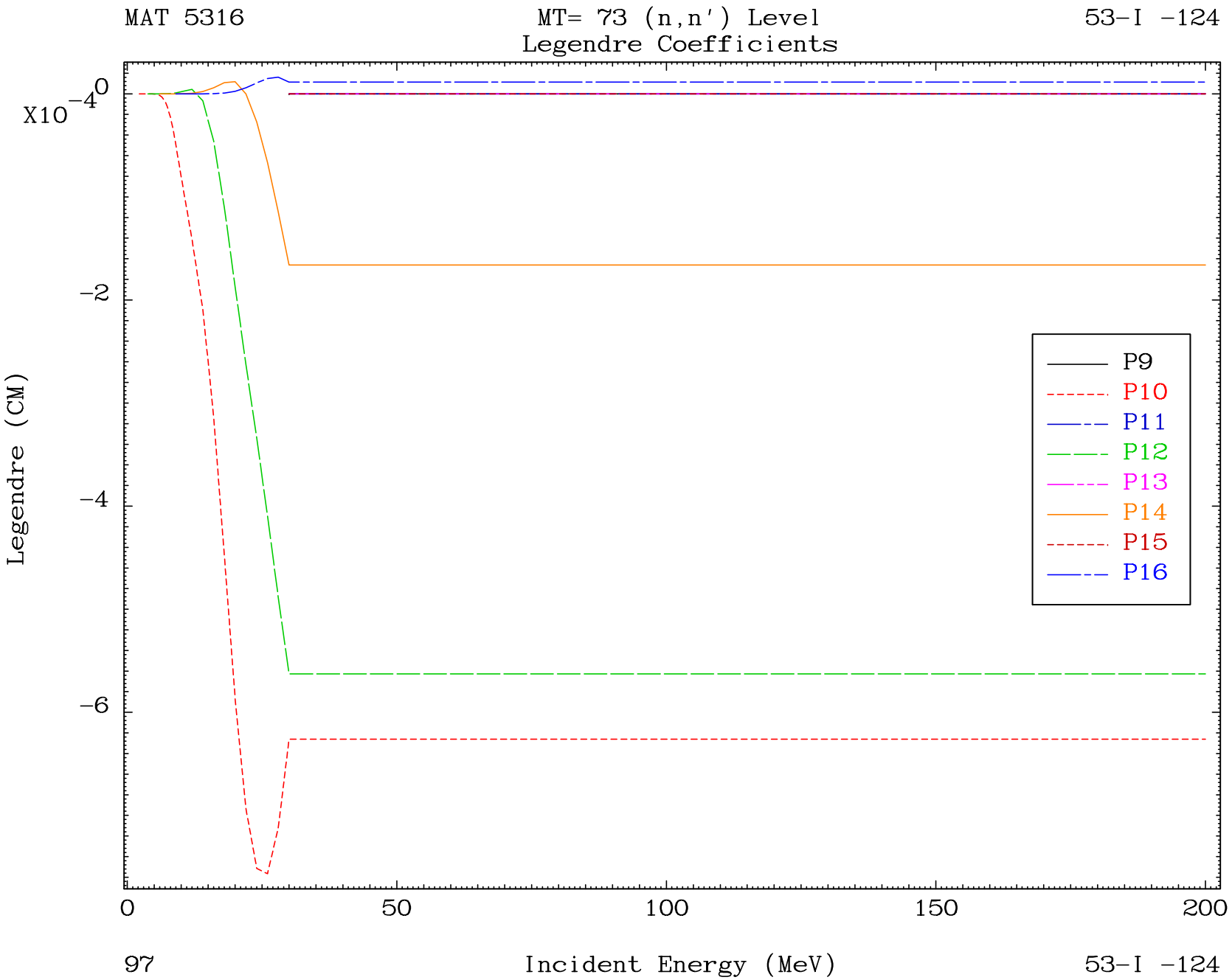

MAT 5316
MT= 71 (n,n') Level
Legendre Coefficients
53-I -124
X10^-4
4
3
2
1
0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
92
Incident Energy (MeV)
53-I -124

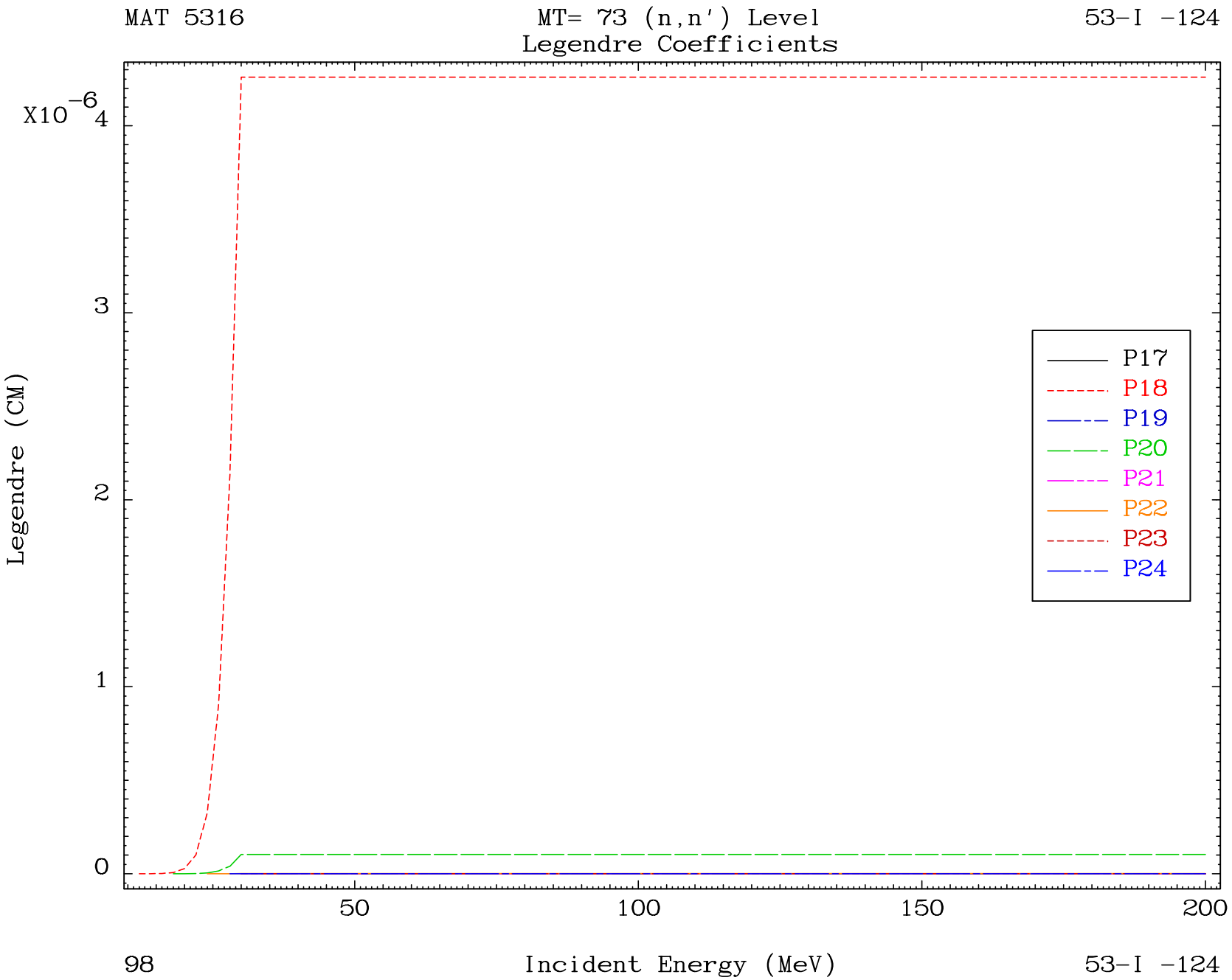

MAT 5316
MT= 72 (n,n') Level
Legendre Coefficients
53-I -124
0.04
0.02
0.00
-0.02
Legendre (CM)
0
50
100
150
200
93
Incident Energy (MeV)
53-I -124
P1
P2
P3
P4
P5
P6
P7
P8

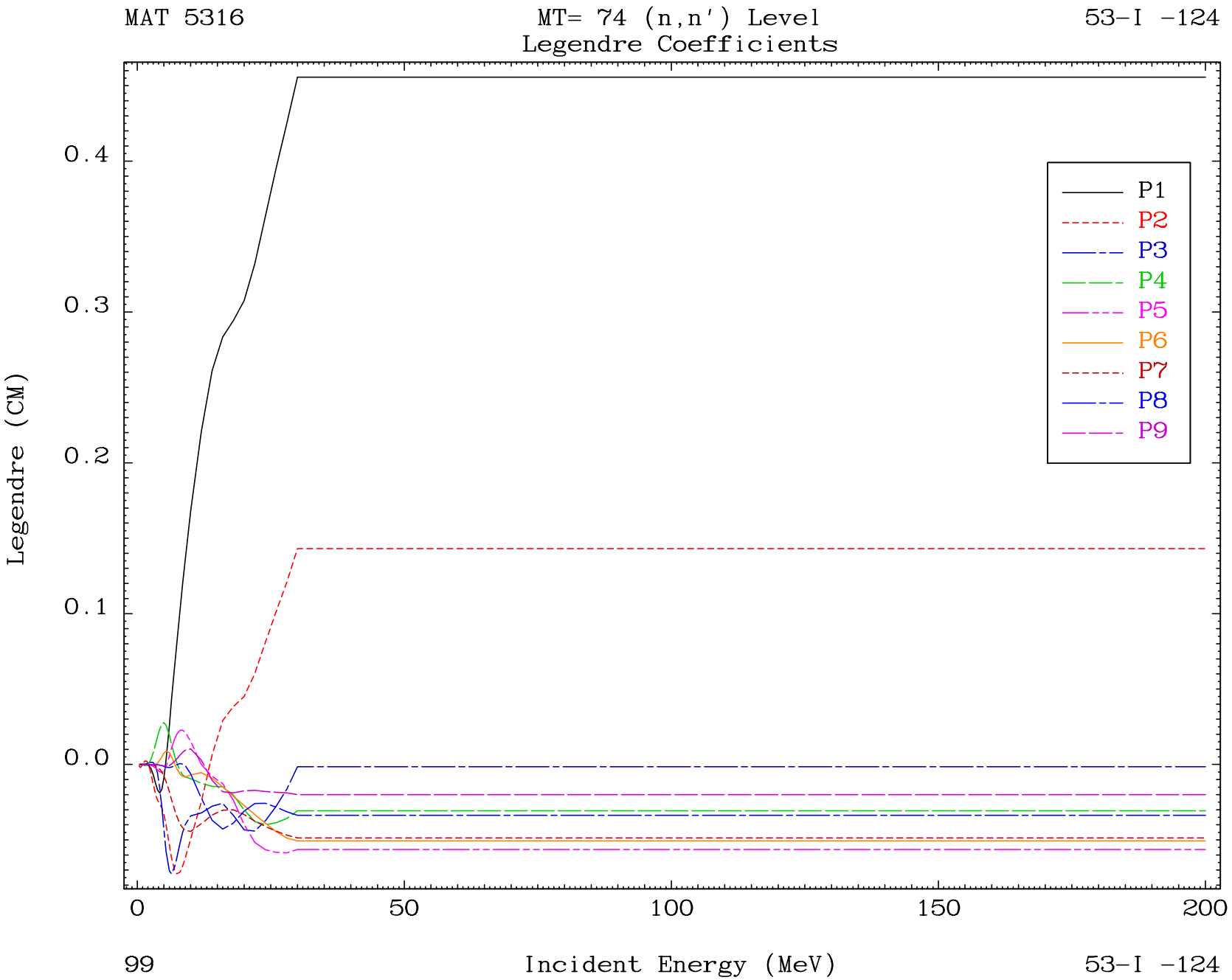

MAT 5316
MT= 72 (n,n') Level
Legendre Coefficients
53-I -124
X10^-4
1
0
-1
-2
Legendre (CM)
0
50
100
150
200
94
Incident Energy (MeV)
53-I -124
P9
P10
P11
P12
P13
P14
P15
P16

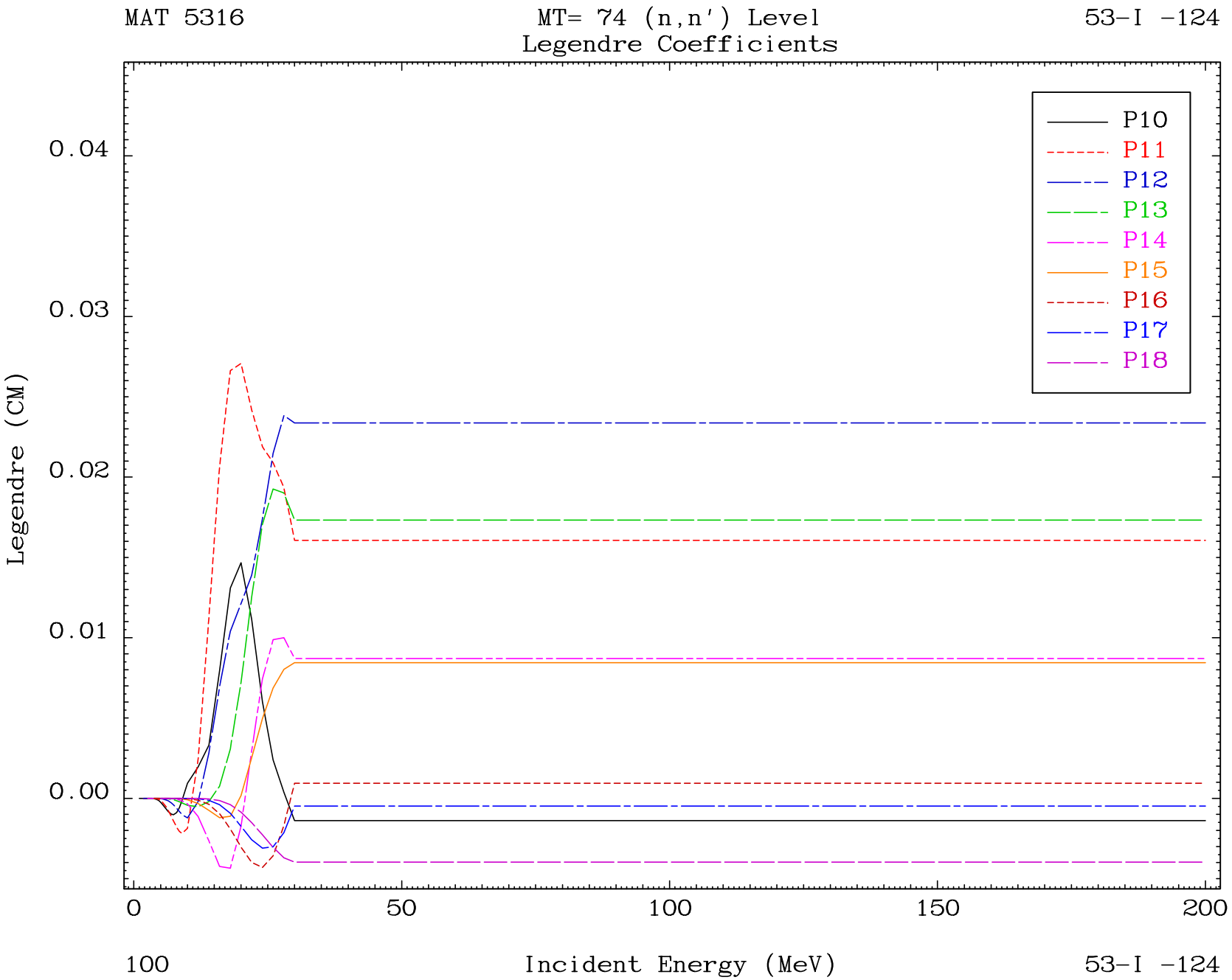

MAT 5316
MT= 72 (n,n') Level
Legendre Coefficients
53-I -124
X10 -6
5
4
3
2
1
0
Legendre (CM)
50
100
150
200
95
Incident Energy (MeV)
53-I -124
P17
P18
P19
P20
P21
P22
P23
P24

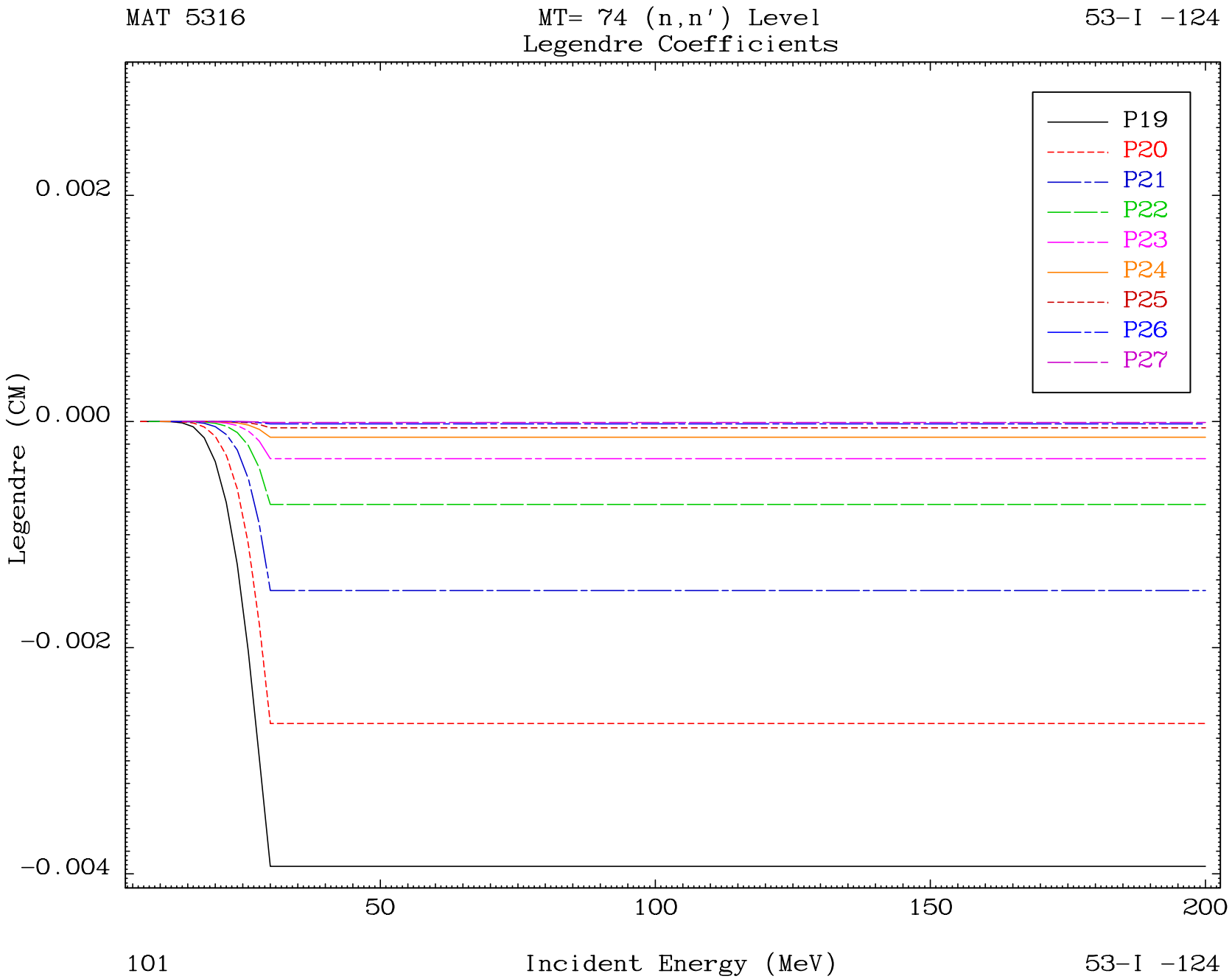

MAT 5316
MT= 73 (n,n') Level
Legendre Coefficients
53-I -124
0.15
0.10
0.05
0.00
Legendre (CM)
0
50
100
150
200
96
Incident Energy (MeV)
53-I -124
P1
P2
P3
P4
P5
P6
P7
P8

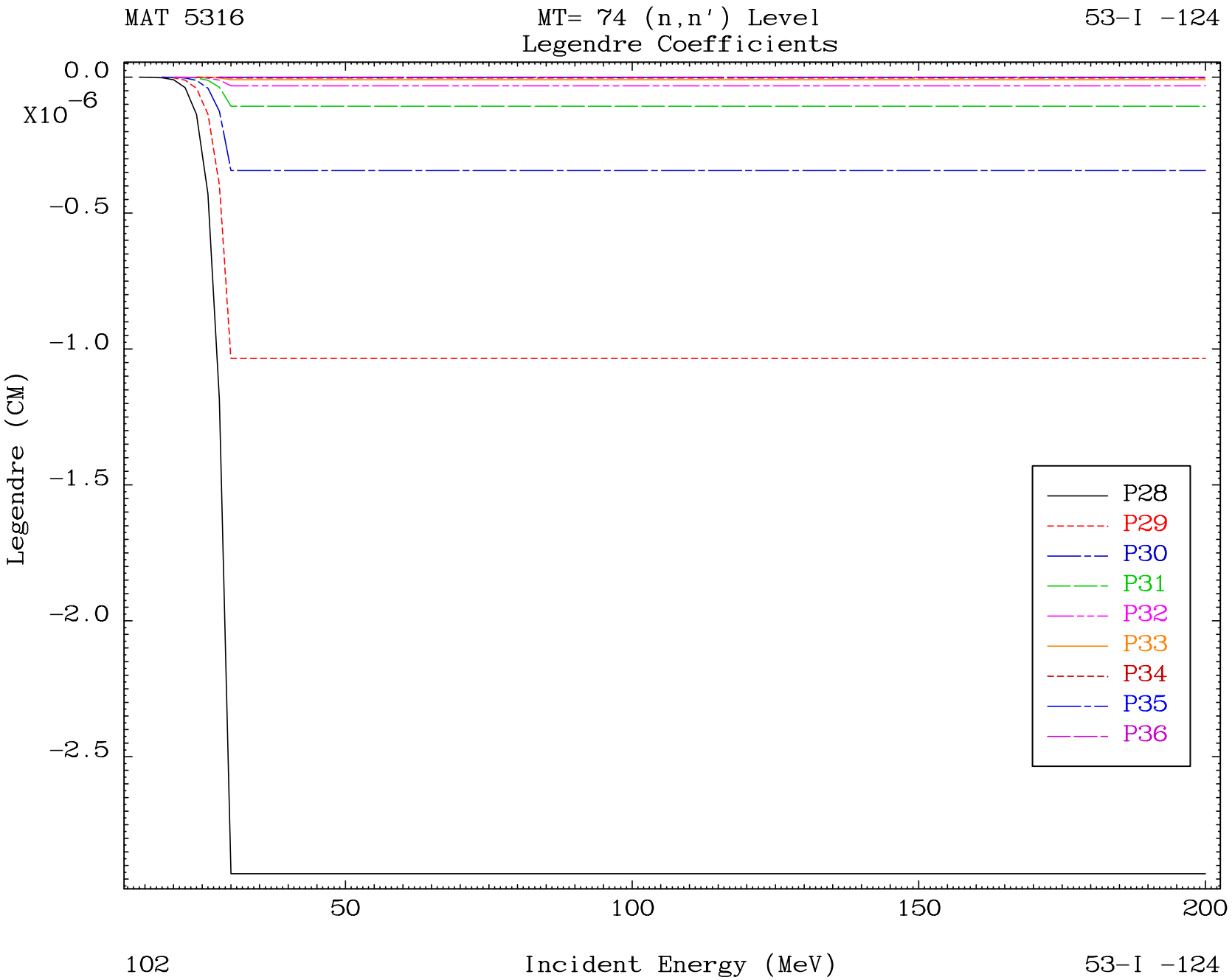

MAT 5316
MT= 73 (n,n') Level
Legendre Coefficients
53-I -124
X10^-4
0
-2
-4
-6
Legendre (CM)
P9
P10
P11
P12
P13
P14
P15
P16
0
50
100
150
200
97
Incident Energy (MeV)
53-I -124

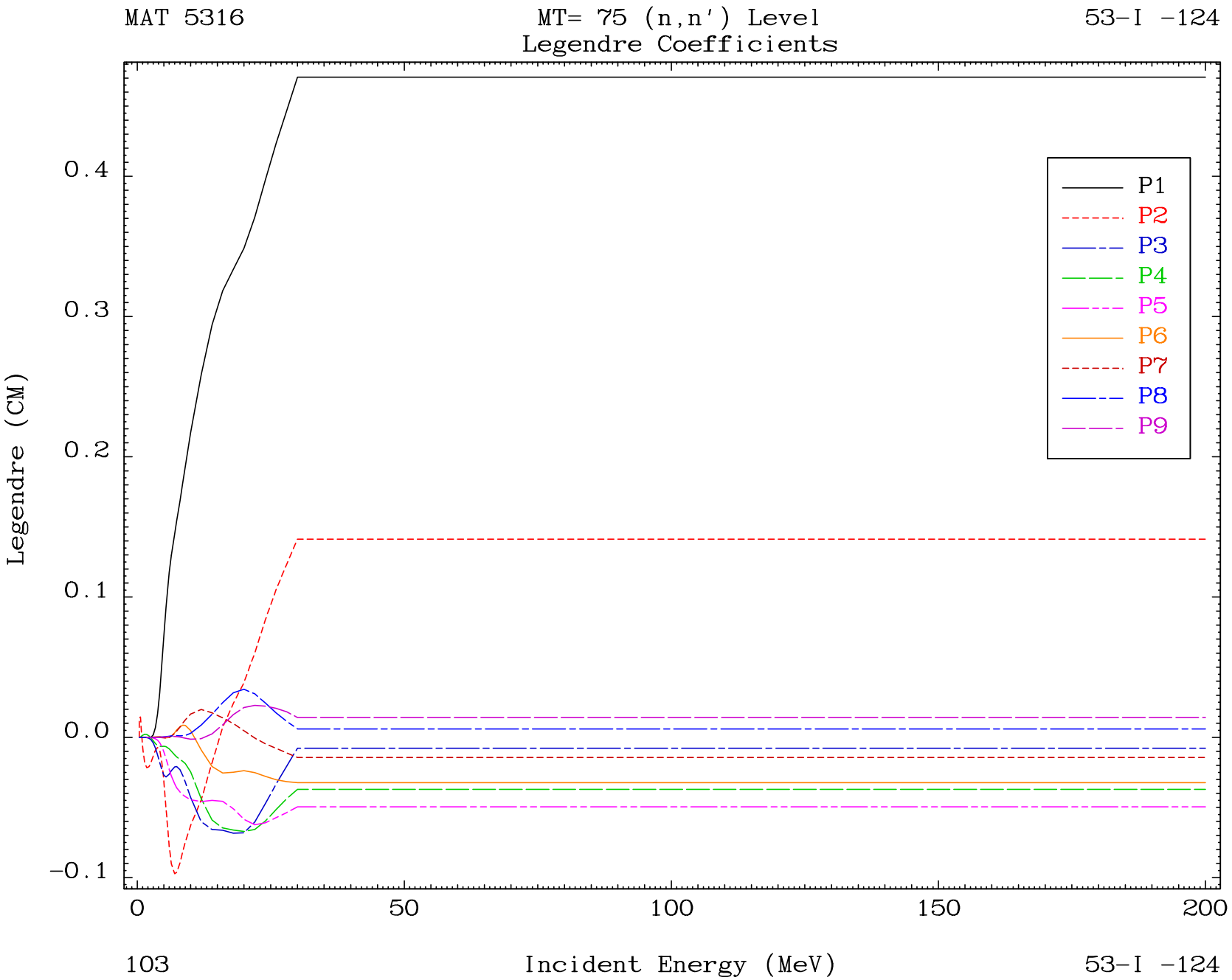

MAT 5316
MT= 73 (n,n') Level
Legendre Coefficients
53-I -124
X10 -6
4
3
2
1
0
Legendre (CM)
50
100
150
200
98
Incident Energy (MeV)
53-I -124
P17
P18
P19
P20
P21
P22
P23
P24

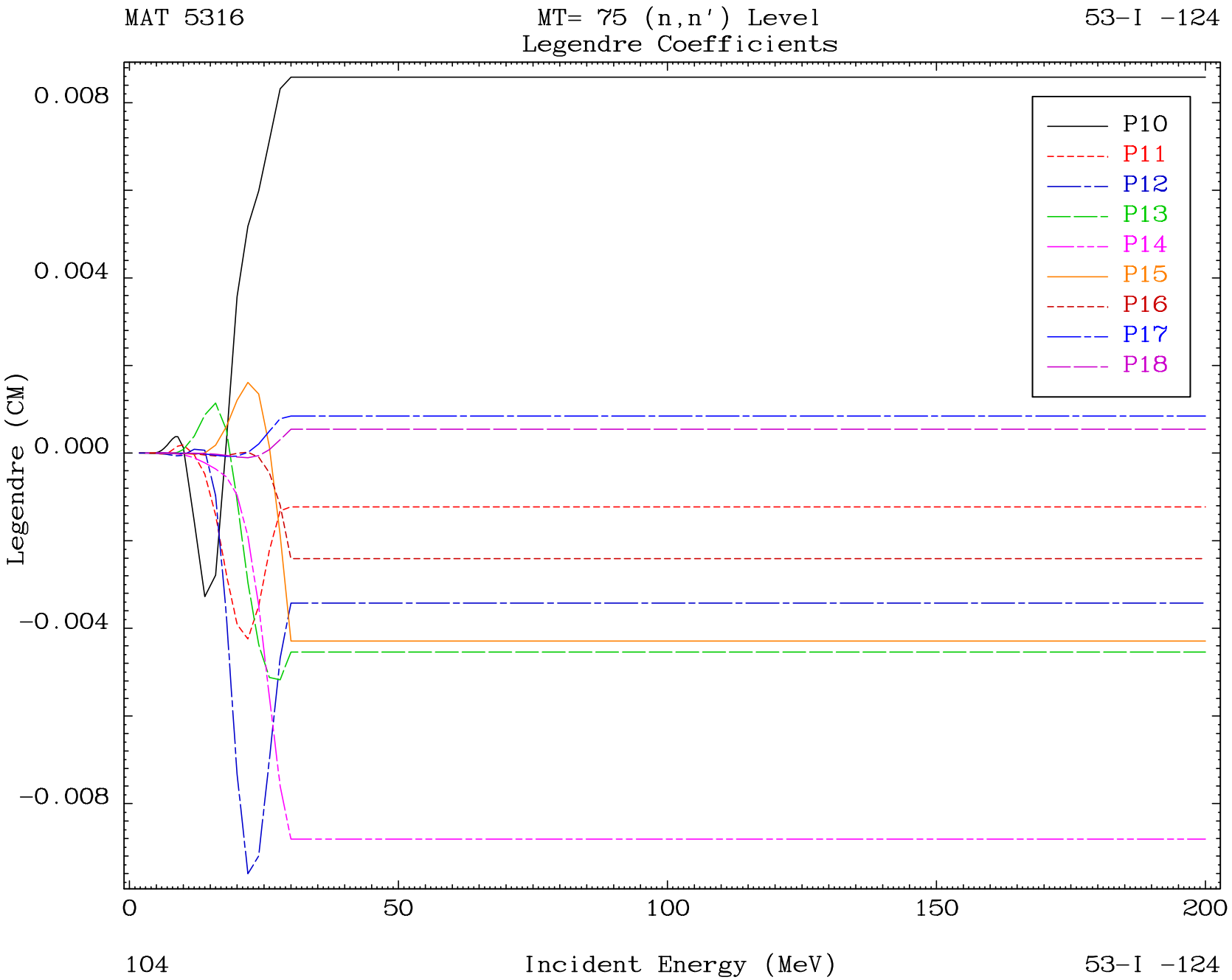

MAT 5316
MT= 74 (n,n') Level
Legendre Coefficients
53-I -124
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
99
Incident Energy (MeV)
53-I -124

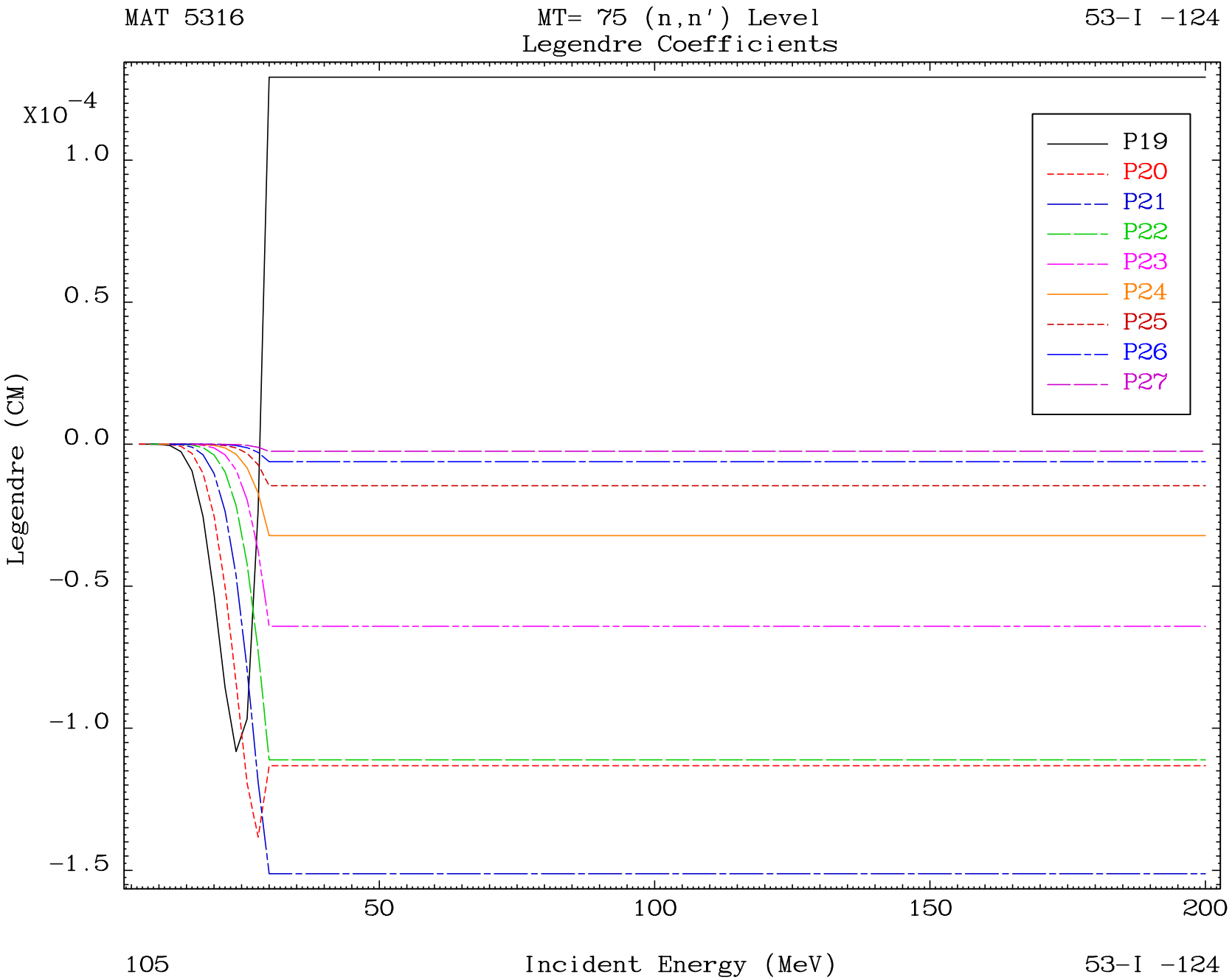

MAT 5316
MT= 74 (n,n') Level
Legendre Coefficients
53-I -124
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.04
0.03
0.02
0.01
0.00
Legendre (CM)
0
50
100
150
200
100
Incident Energy (MeV)
53-I -124

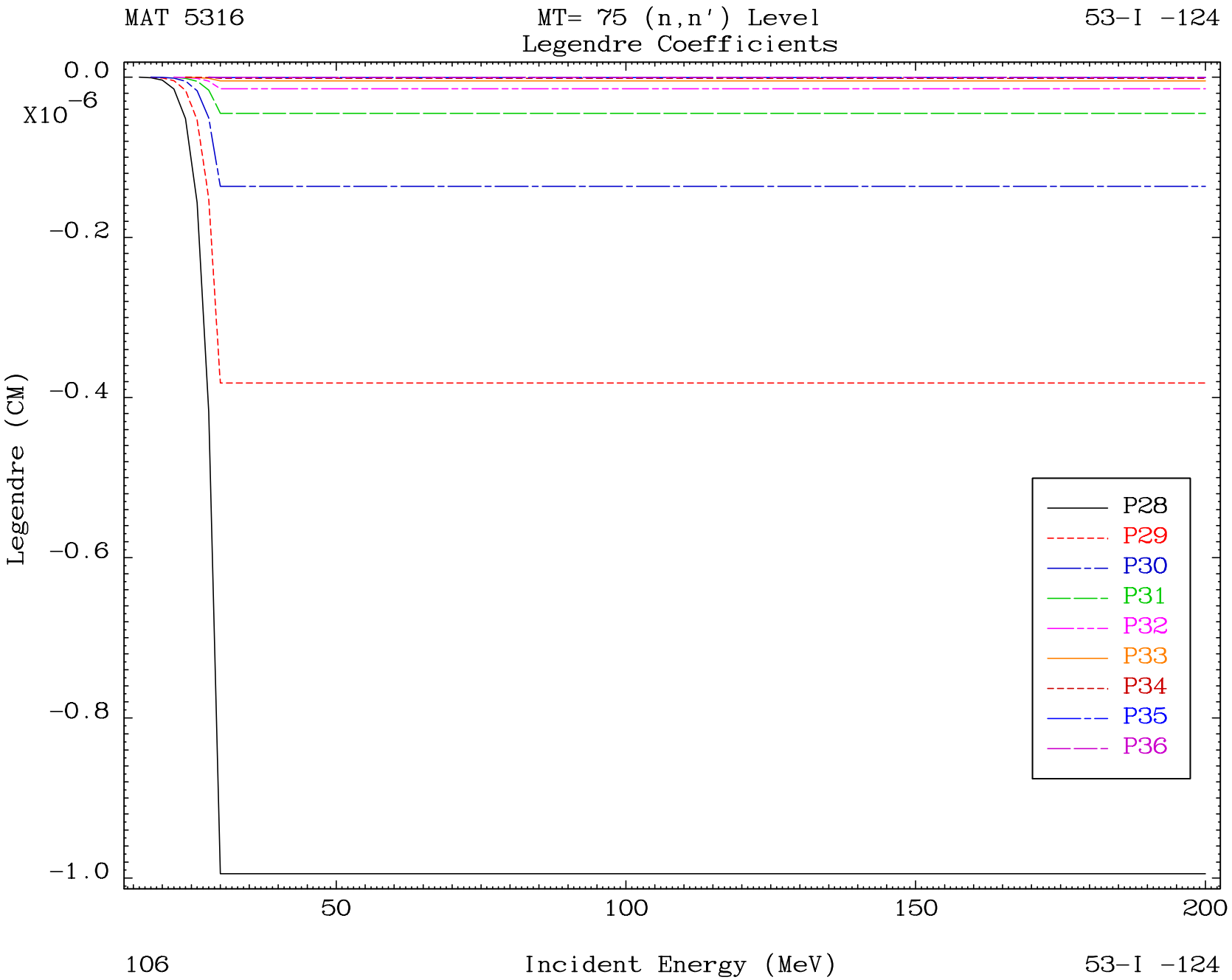

MAT 5316
MT= 74 (n,n') Level
Legendre Coefficients
53-I -124
P19
P20
P21
P22
P23
P24
P25
P26
P27
0.002
0.000
-0.002
-0.004
Legendre (CM)
50
100
150
200
101
Incident Energy (MeV)
53-I -124

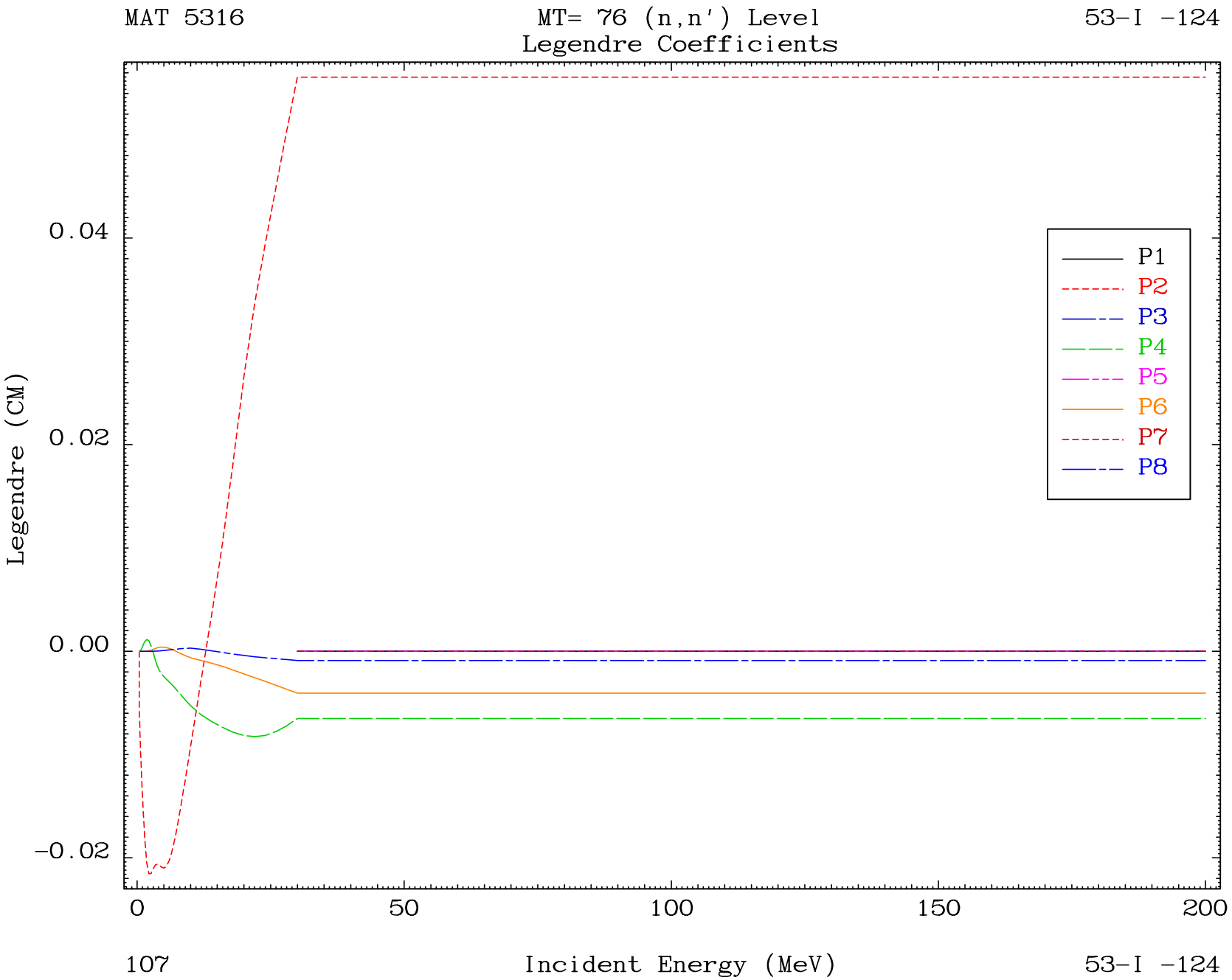

MAT 5316
MT= 74 (n,n') Level
Legendre Coefficients
53-I -124
0.0
X10^-6
-0.5
-1.0
-1.5
-2.0
-2.5
Legendre (CM)
50
100
150
200
102
Incident Energy (MeV)
53-I -124
P28
P29
P30
P31
P32
P33
P34
P35
P36

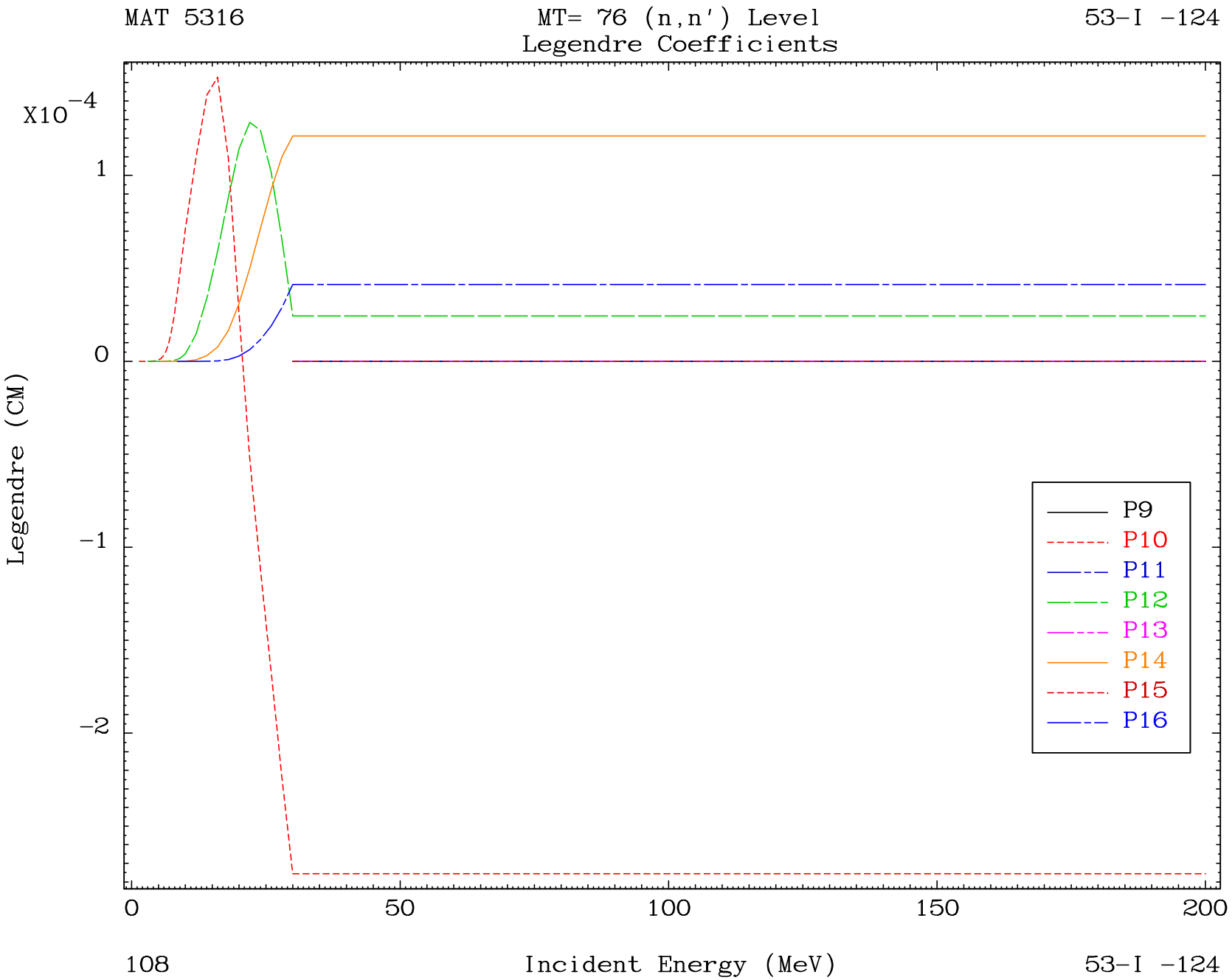

MAT 5316
MT= 75 (n,n') Level
Legendre Coefficients
53-I -124
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
-0.1
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
103
Incident Energy (MeV)
53-I -124

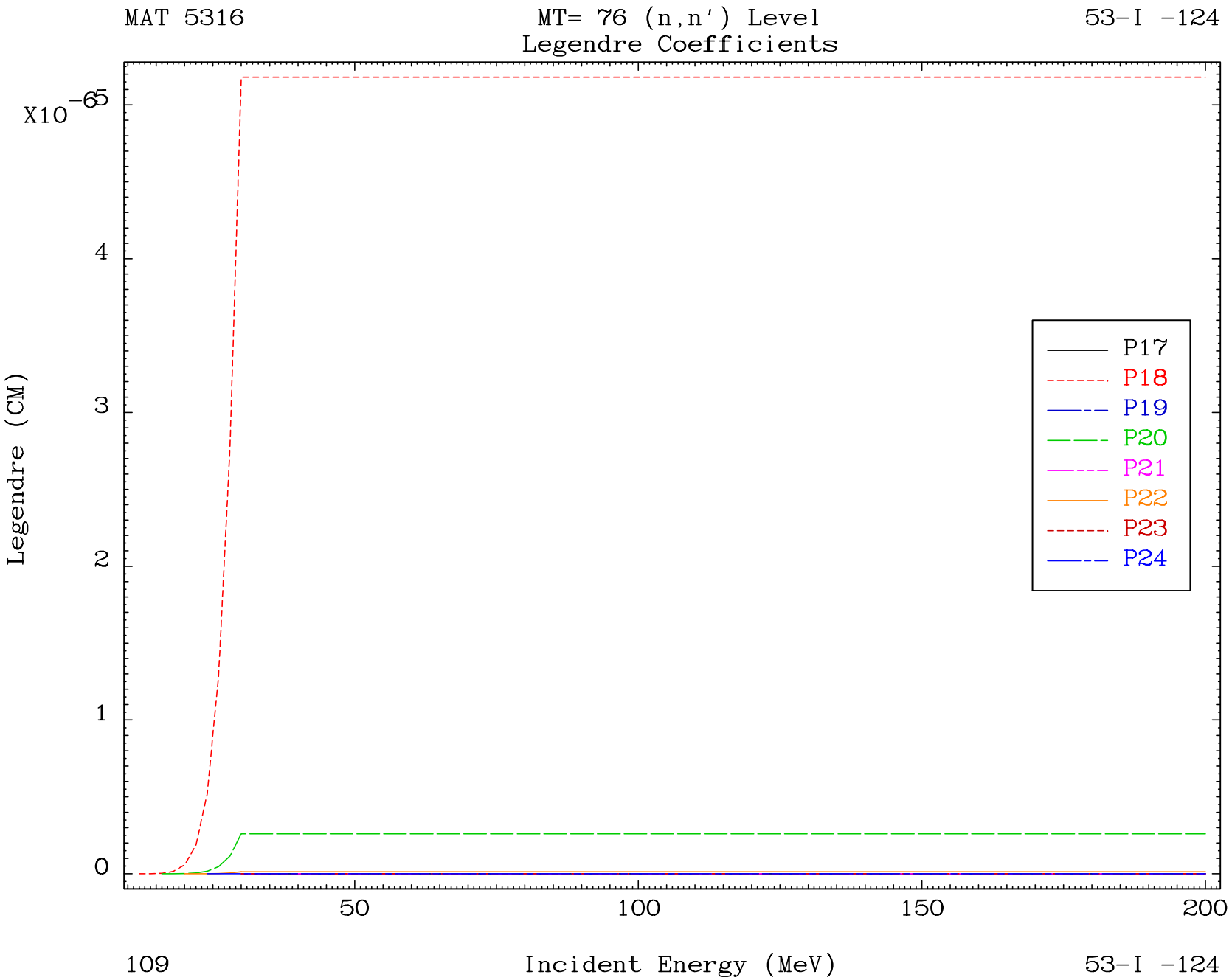

MAT 5316
MT= 75 (n,n') Level
Legendre Coefficients
53-I -124
0.008
0.004
0.000
-0.004
-0.008
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
104
Incident Energy (MeV)
53-I -124

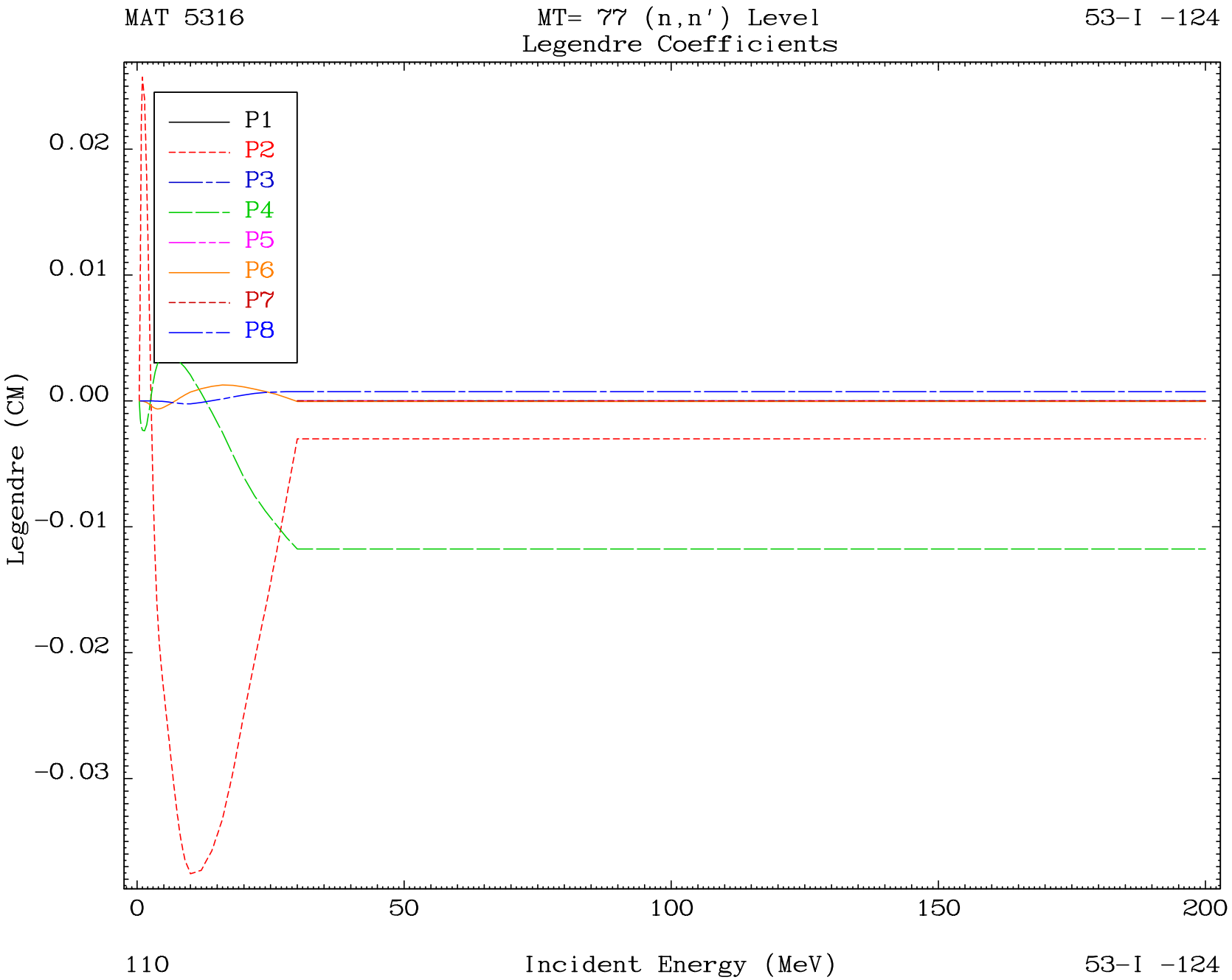

MAT 5316
MT= 75 (n,n') Level
Legendre Coefficients
53-I -124
X10^-4
1.0
0.5
0.0
-0.5
-1.0
-1.5
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
105
Incident Energy (MeV)
53-I -124

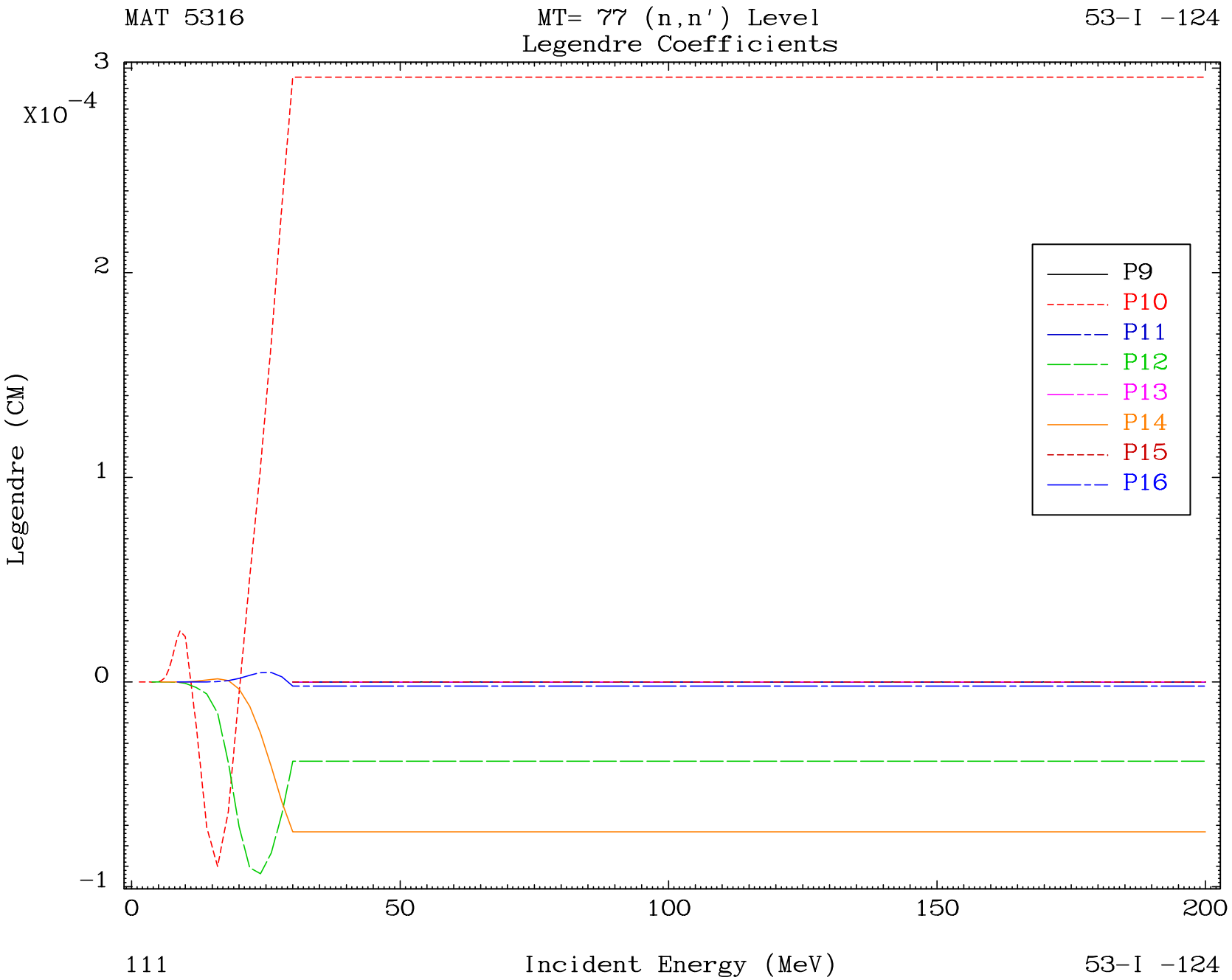

MAT 5316
MT= 75 (n,n') Level
Legendre Coefficients
53-I -124
0.0
X10^-6
-0.2
-0.4
-0.6
-0.8
-1.0
Legendre (CM)
50
100
150
200
106
Incident Energy (MeV)
53-I -124
P28
P29
P30
P31
P32
P33
P34
P35
P36

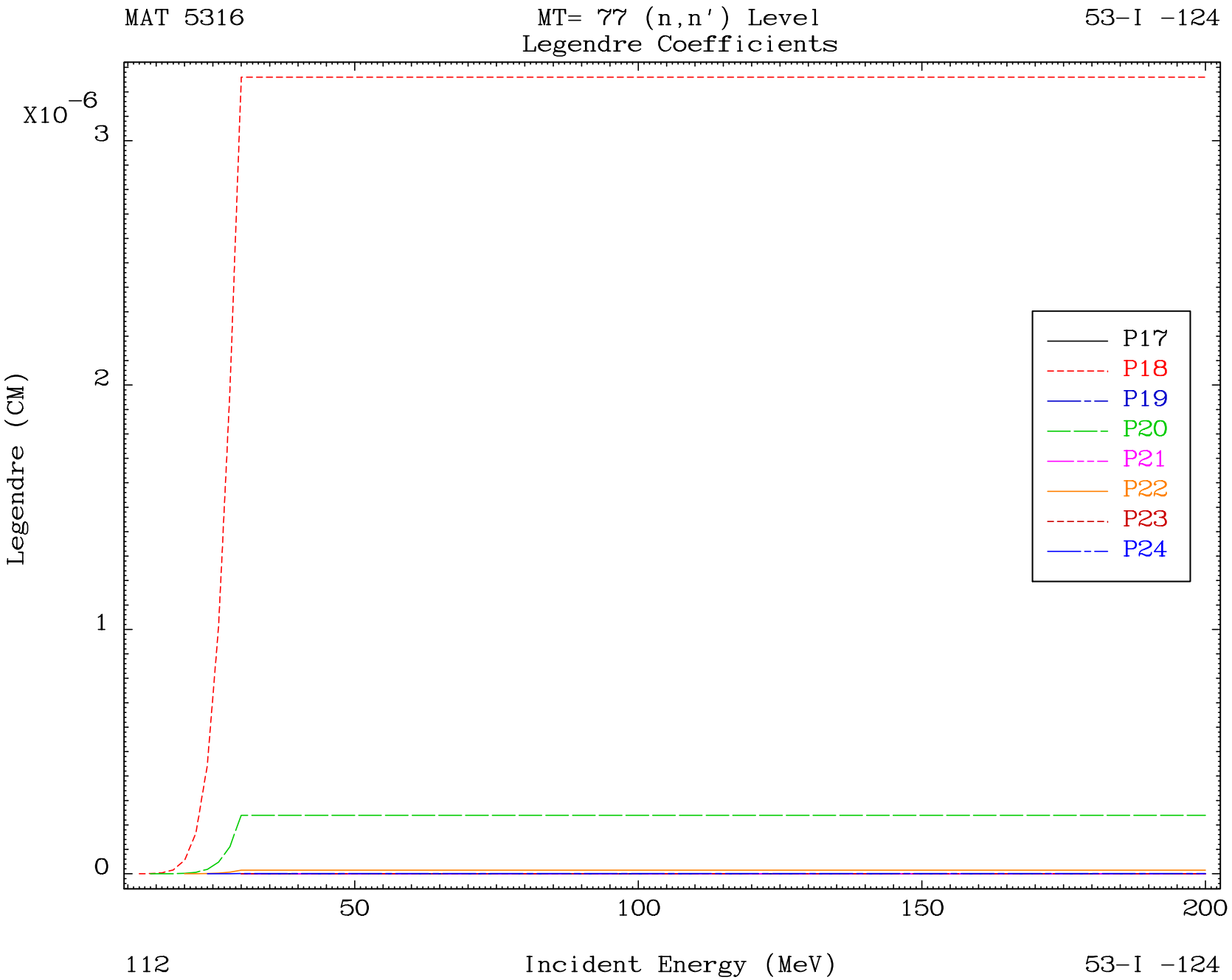

MAT 5316
MT= 76 (n,n') Level
Legendre Coefficients
53-I -124
0.04
0.02
0.00
-0.02
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
0
50
100
150
200
107
Incident Energy (MeV)
53-I -124

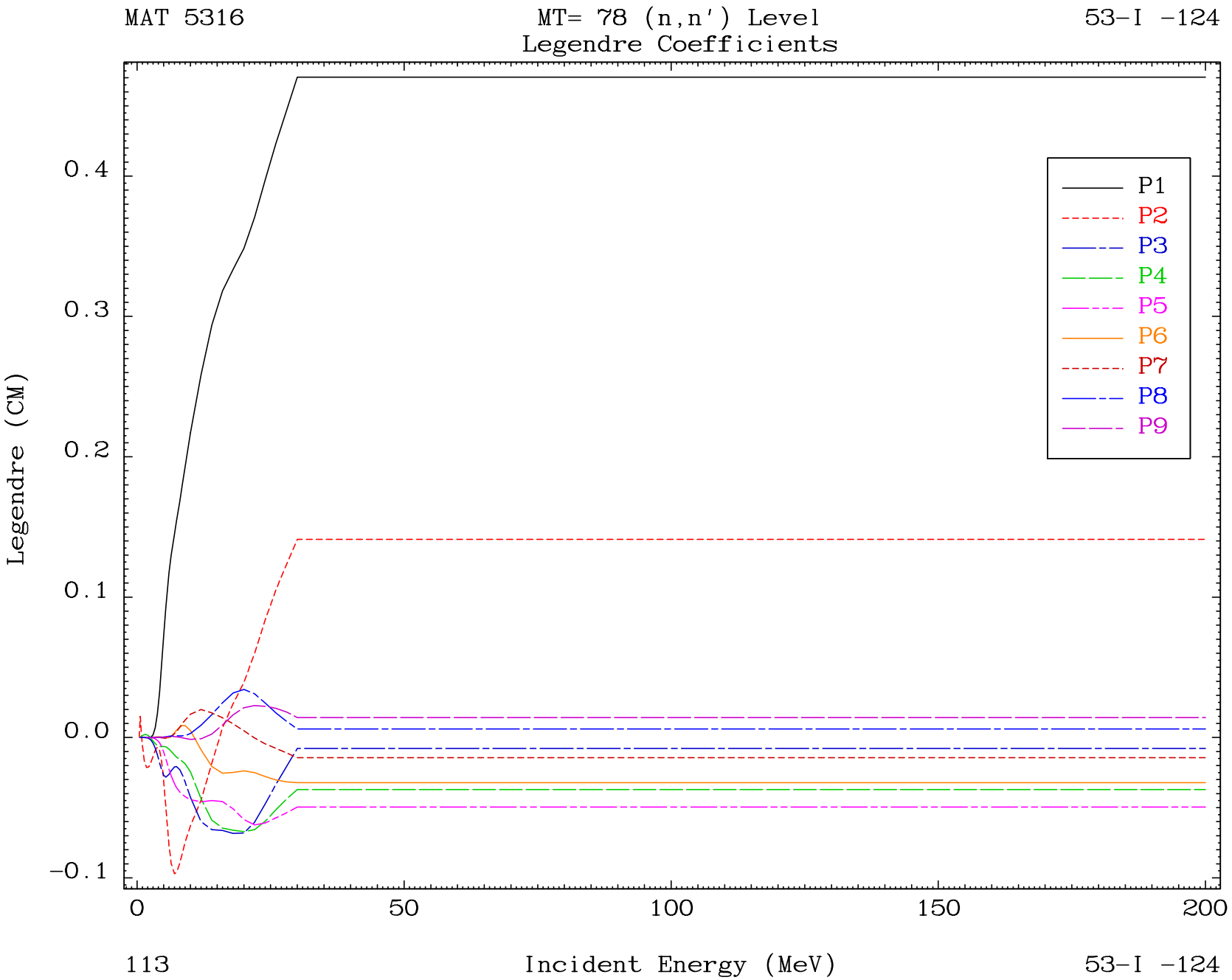

MAT 5316
MT= 76 (n,n') Level
Legendre Coefficients
53-I -124
X10^-4
1
0
-1
-2
Legendre (CM)
0
50
100
150
200
108
Incident Energy (MeV)
53-I -124
P9
P10
P11
P12
P13
P14
P15
P16

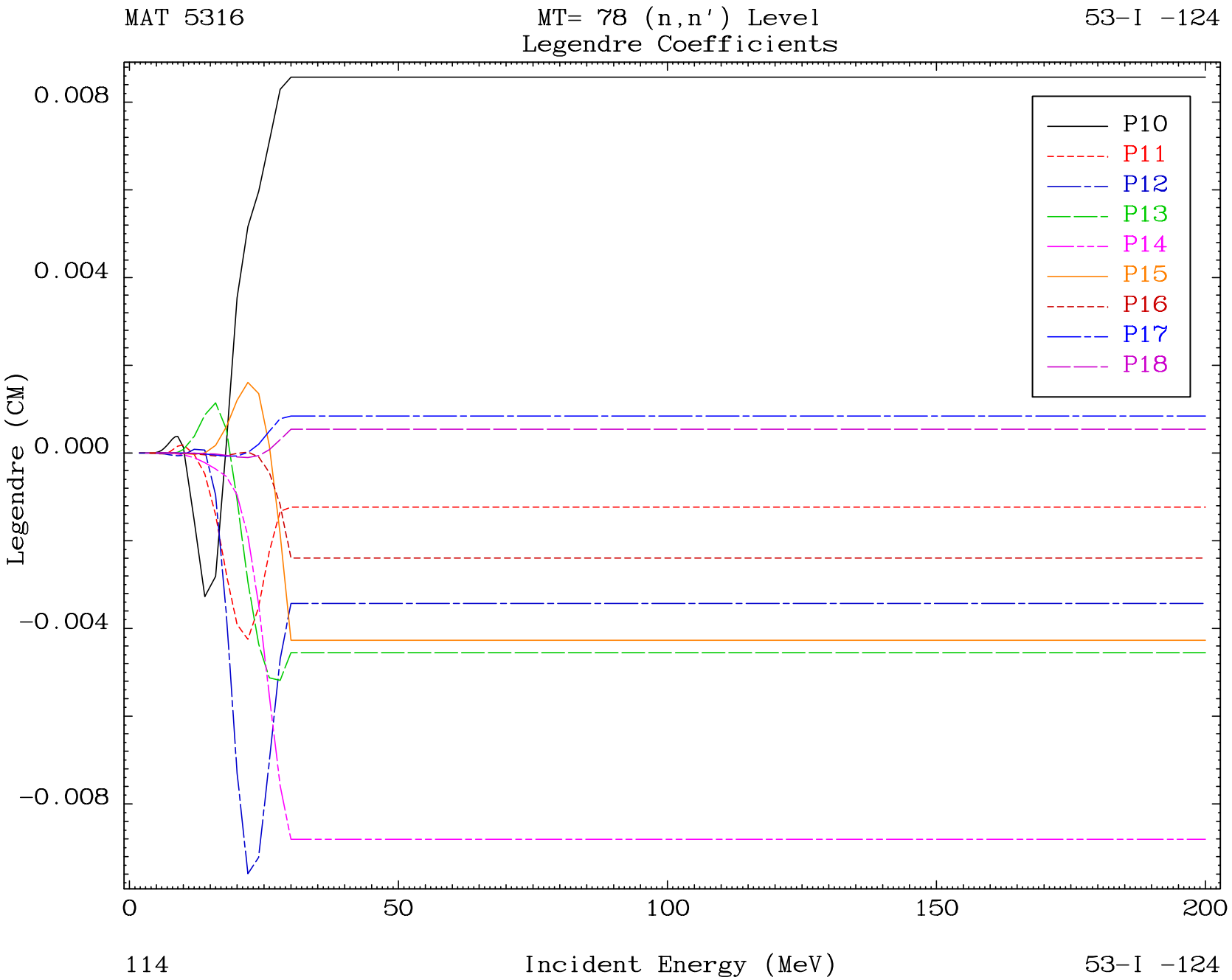

MAT 5316
MT= 76 (n,n') Level
Legendre Coefficients
53-I -124
X10 -65
4
3
2
1
0
Legendre (CM)
P17
P18
P19
P20
P21
P22
P23
P24
50
100
150
200
109
Incident Energy (MeV)
53-I -124

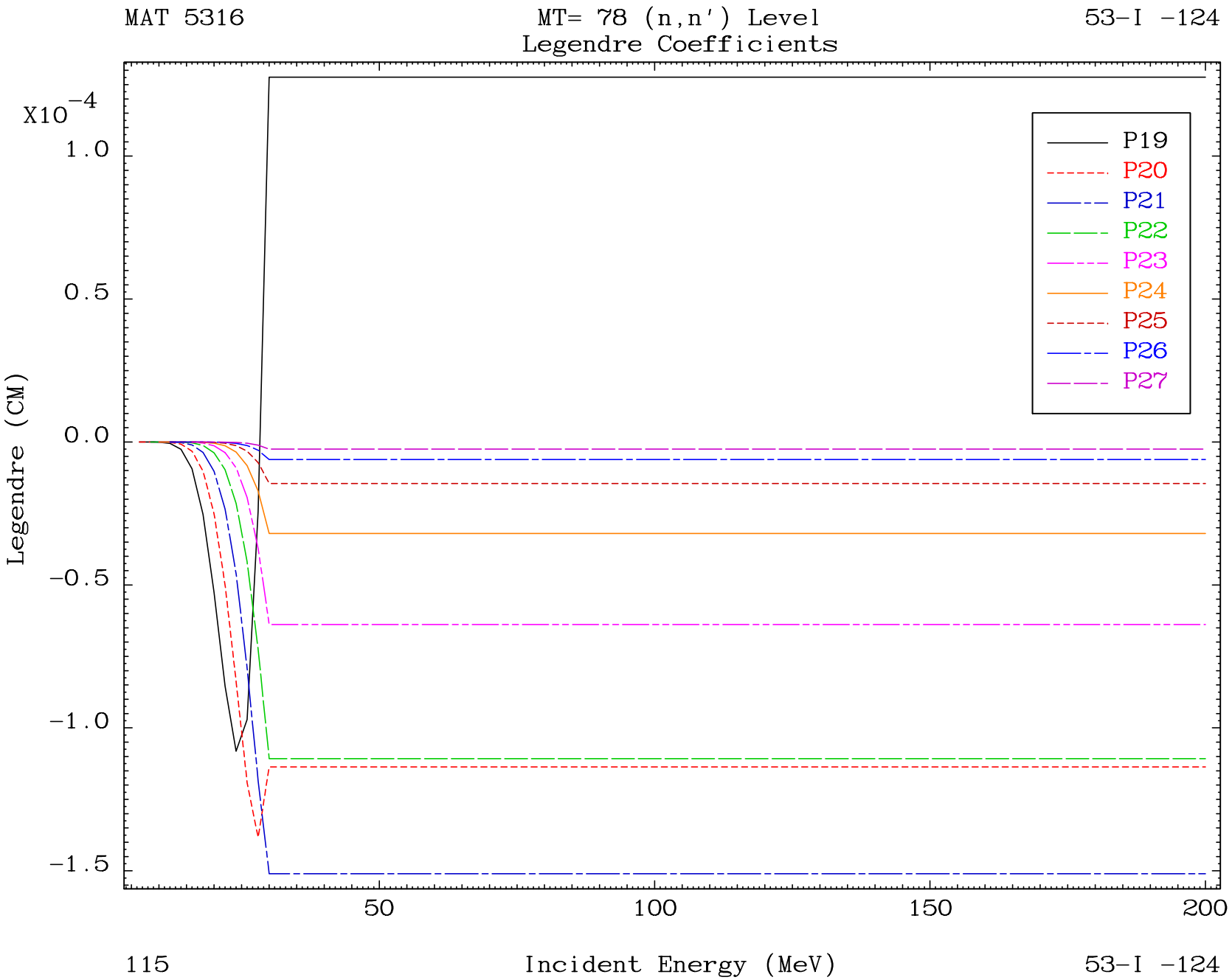

MAT 5316
MT= 77 (n,n') Level
Legendre Coefficients
53-I -124
P1
P2
P3
P4
P5
P6
P7
P8
0.02
0.01
0.00
-0.01
-0.02
-0.03
Legendre (CM)
0
50
100
150
200
110
Incident Energy (MeV)
53-I -124

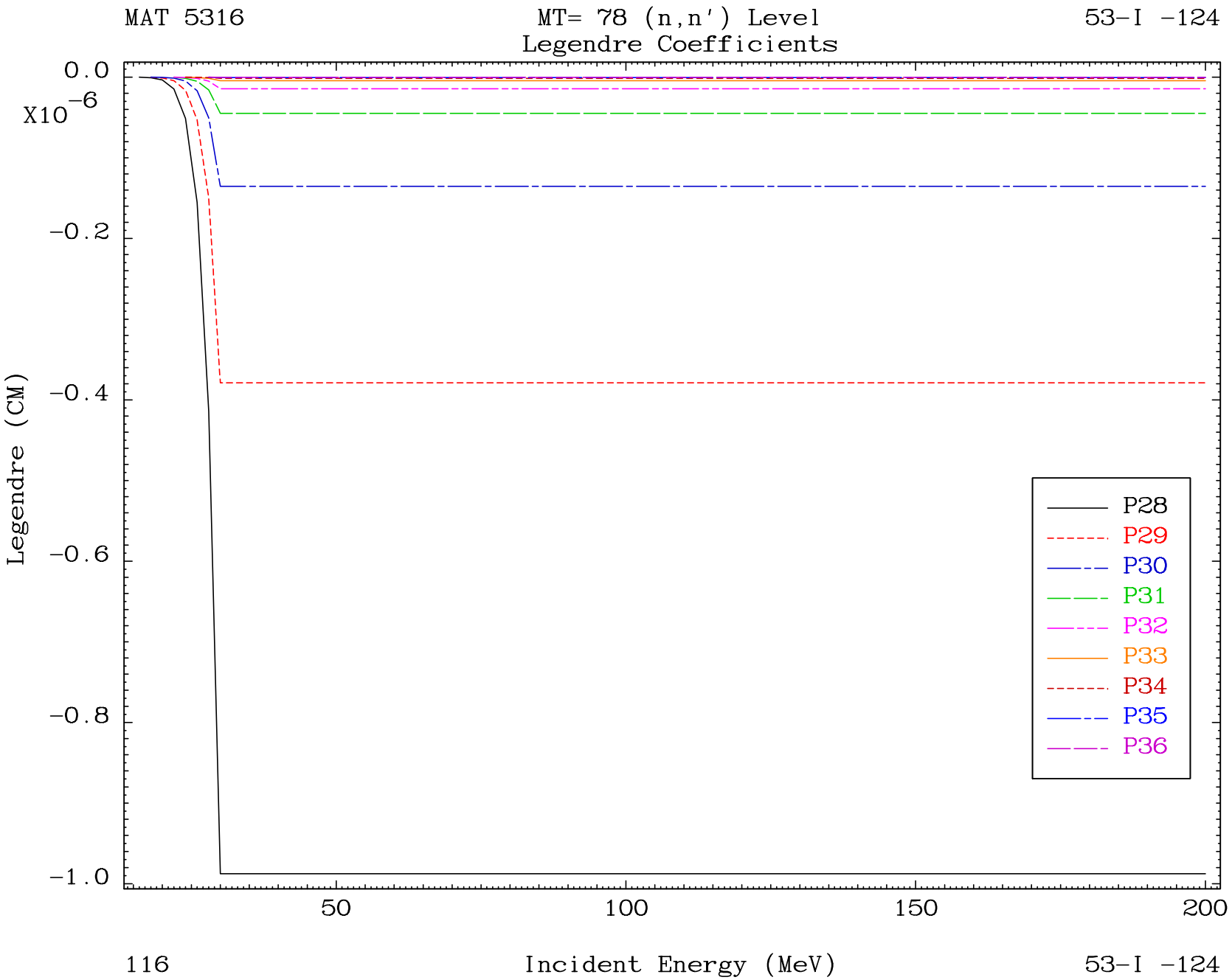

MAT 5316
MT= 77 (n,n') Level
Legendre Coefficients
53-I -124
X10^-4
3
2
1
0
-1
Legendre (CM)
P9
P10
P11
P12
P13
P14
P15
P16
0
50
100
150
200
111
Incident Energy (MeV)
53-I -124

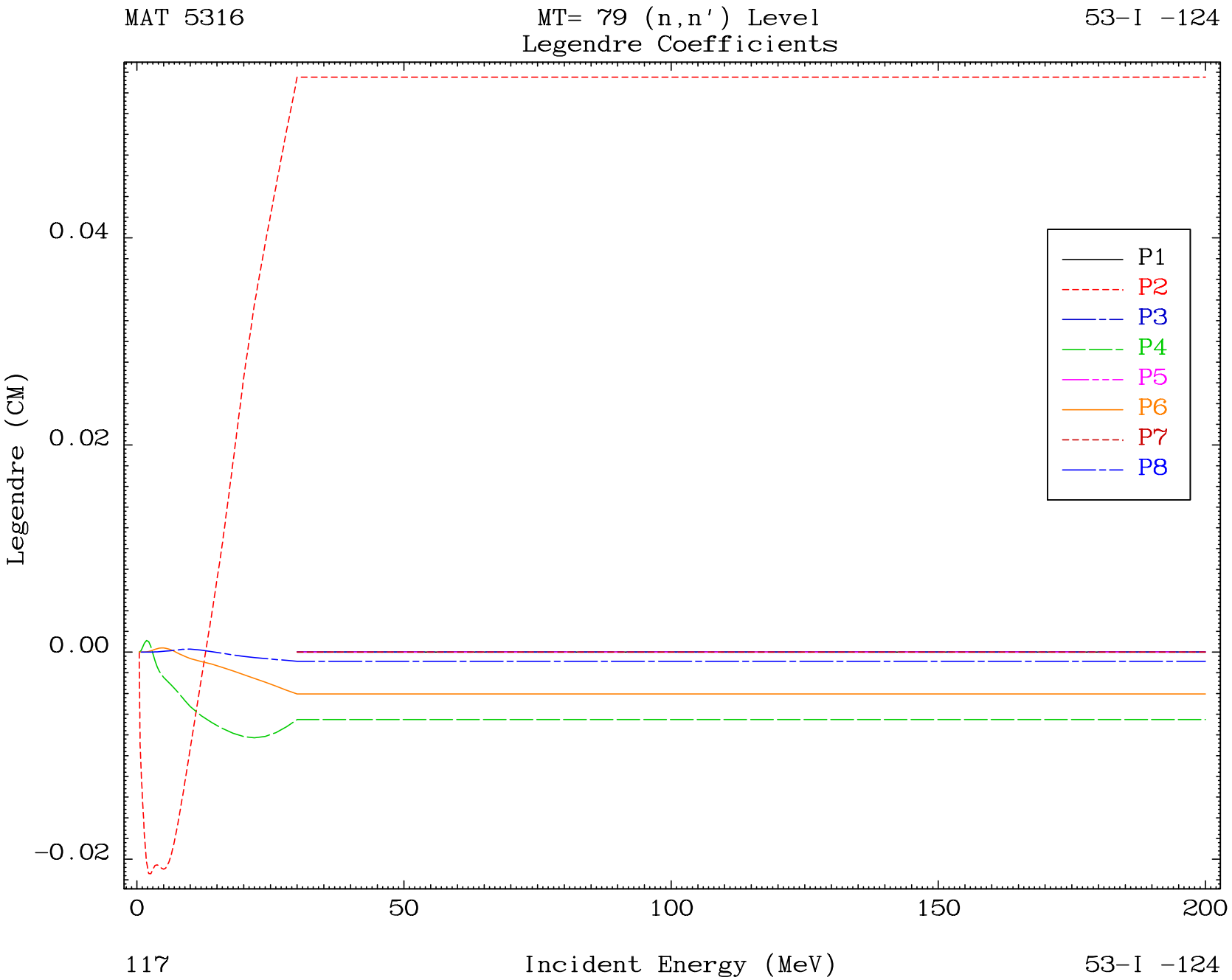

MAT 5316
MT= 77 (n,n') Level
Legendre Coefficients
53-I -124
X10 -6
3
2
1
0
Legendre (CM)
P17
P18
P19
P20
P21
P22
P23
P24
50
100
150
200
112
Incident Energy (MeV)
53-I -124

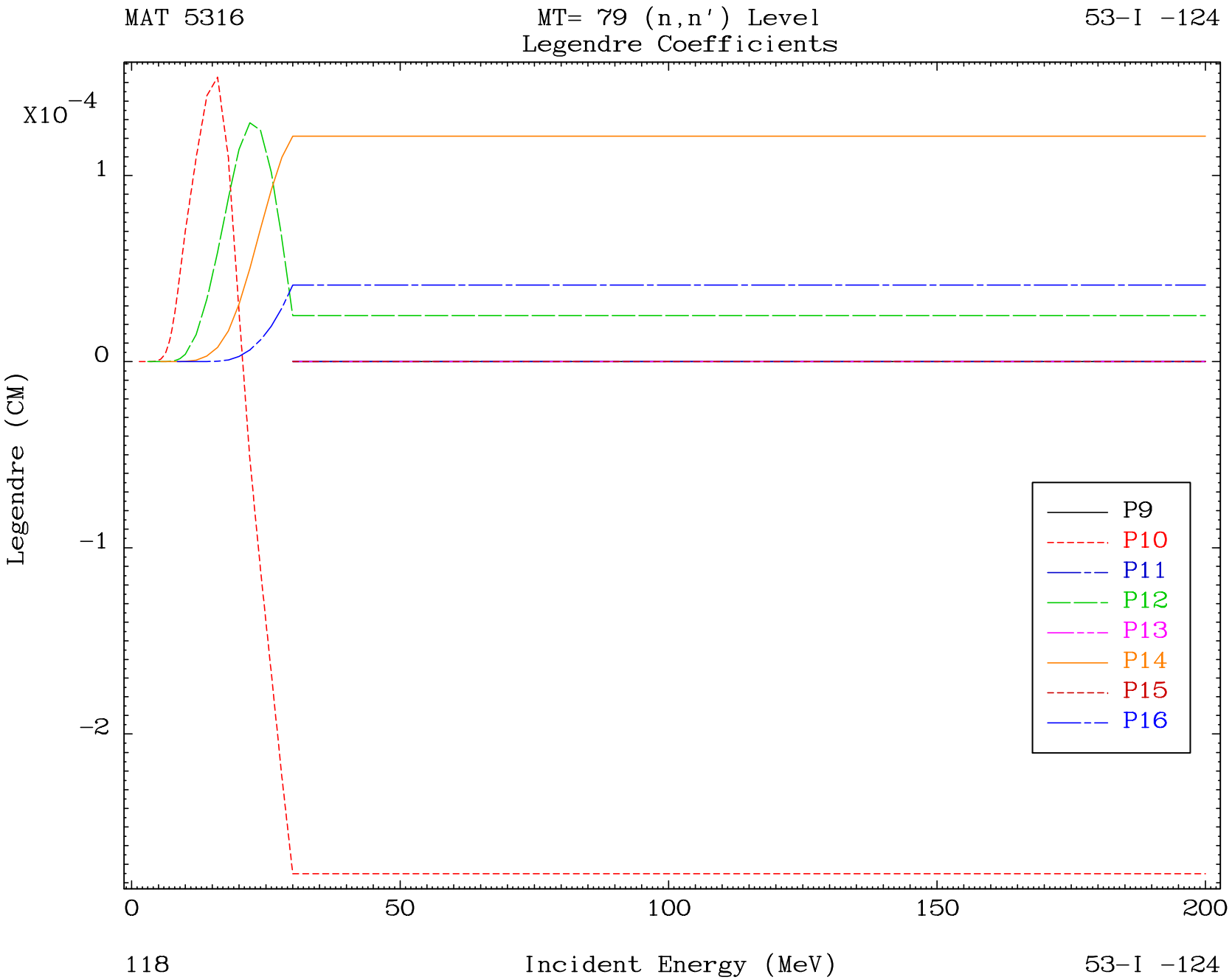

MAT 5316
MT= 78 (n,n') Level
Legendre Coefficients
53-I -124
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
-0.1
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
113
Incident Energy (MeV)
53-I -124

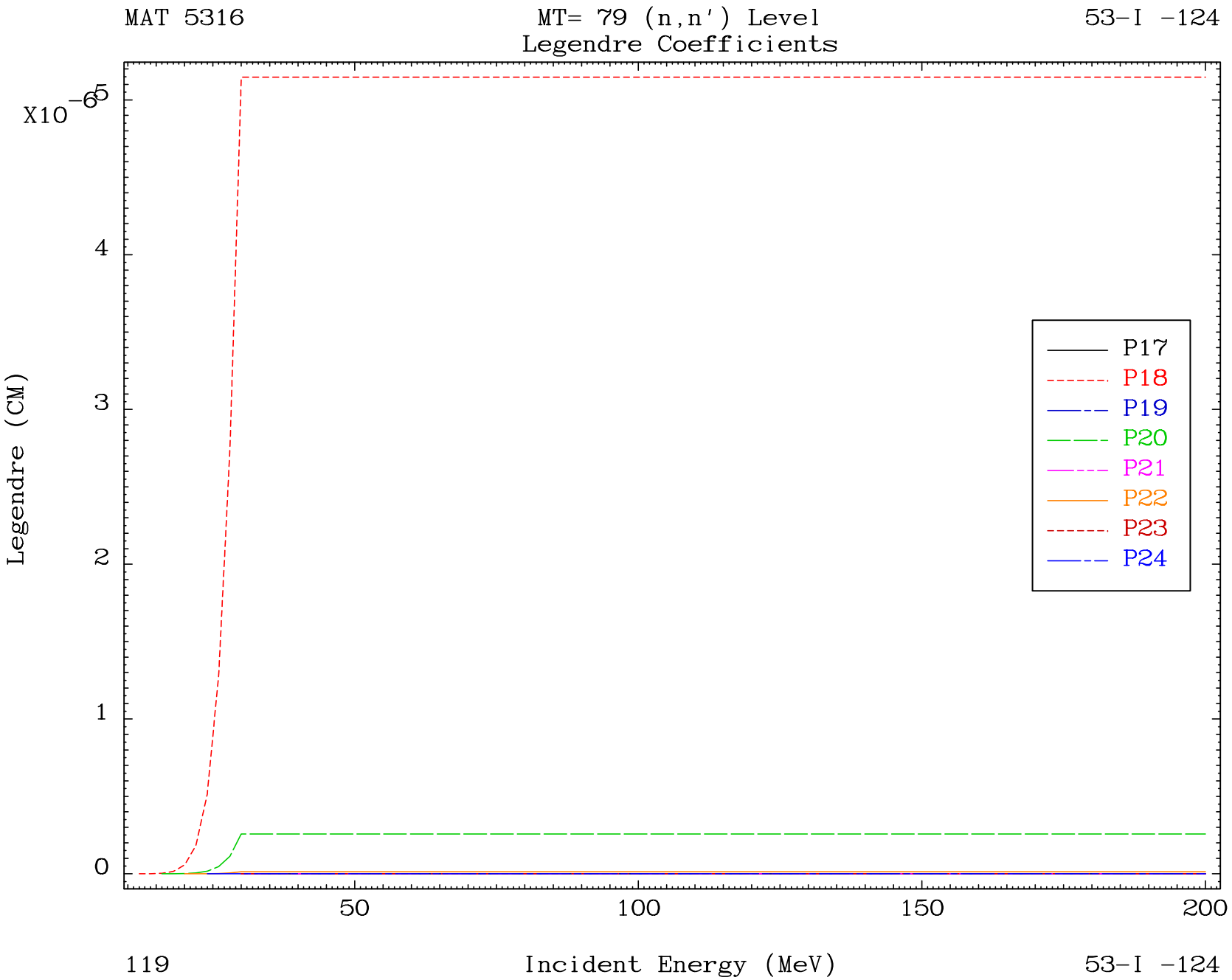

MAT 5316
MT= 78 (n,n') Level
Legendre Coefficients
53-I -124
0.008
0.004
0.000
-0.004
-0.008
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
114
Incident Energy (MeV)
53-I -124

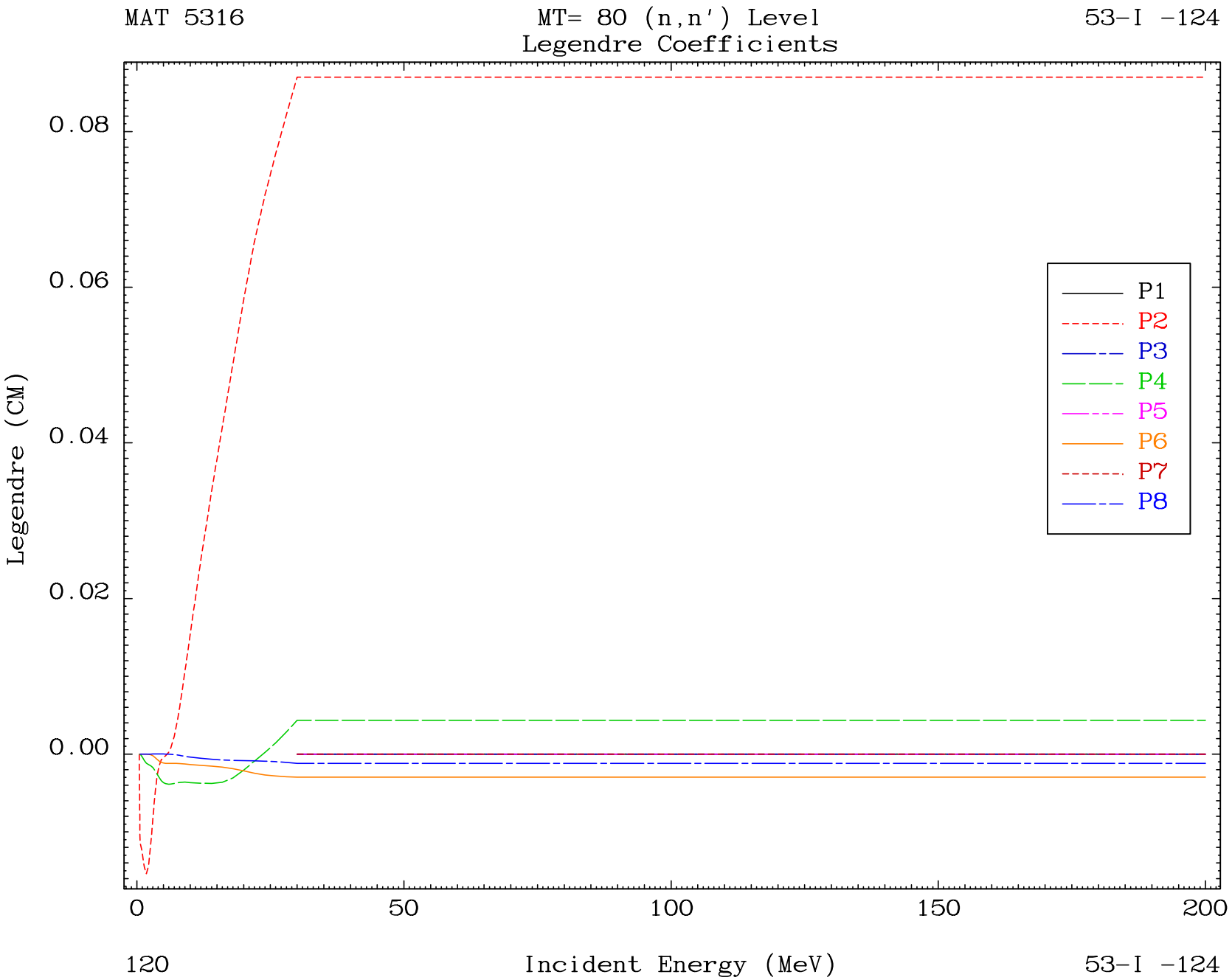

MAT 5316
MT= 78 (n,n') Level
Legendre Coefficients
53-I -124
X10^-4
1.0
0.5
0.0
-0.5
-1.0
-1.5
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
115
Incident Energy (MeV)
53-I -124

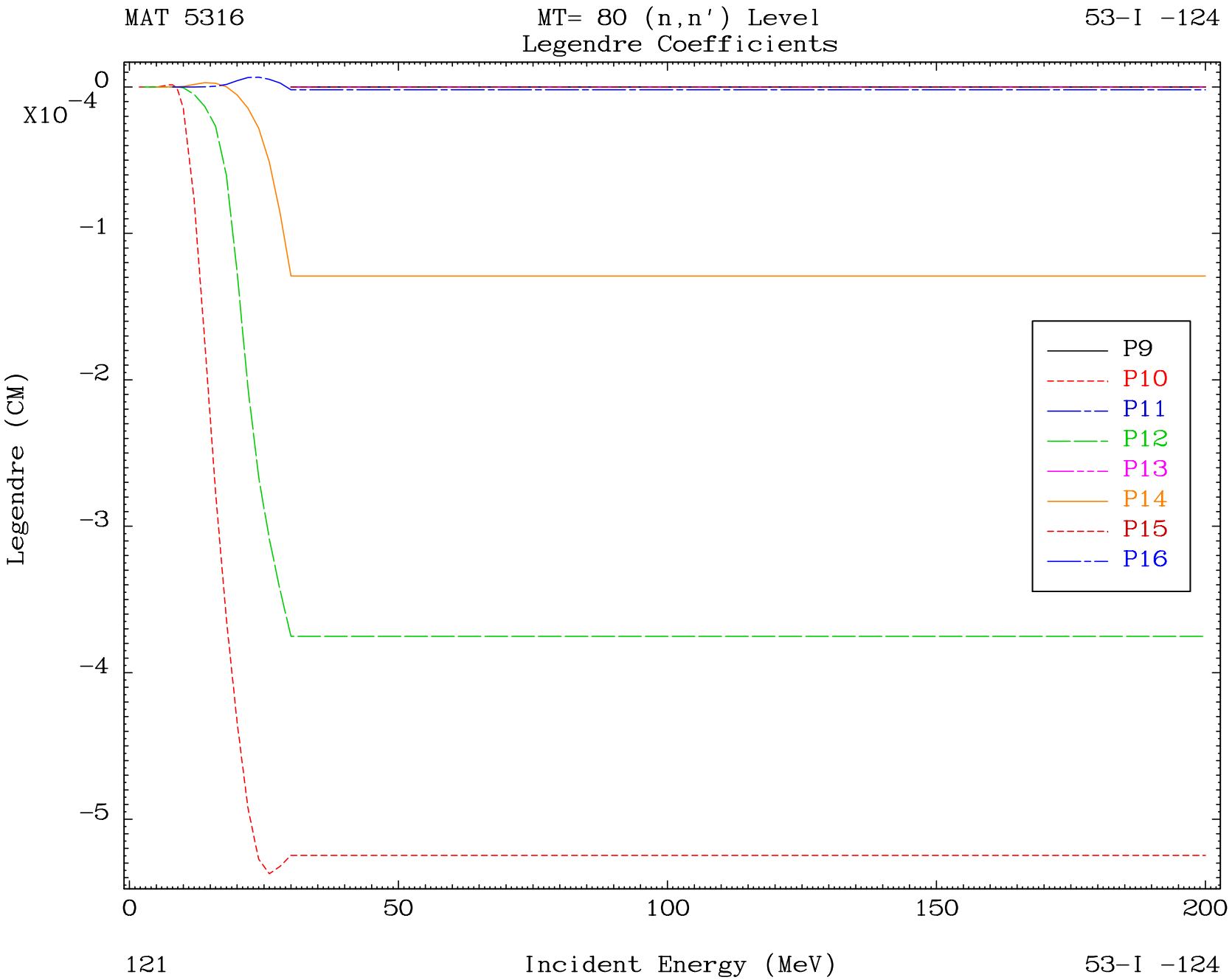

MAT 5316
MT= 78 (n,n') Level
Legendre Coefficients
53-I -124
0.0
X10^-6
-0.2
-0.4
-0.6
-0.8
-1.0
Legendre (CM)
50
100
150
200
116
Incident Energy (MeV)
53-I -124
P28
P29
P30
P31
P32
P33
P34
P35
P36

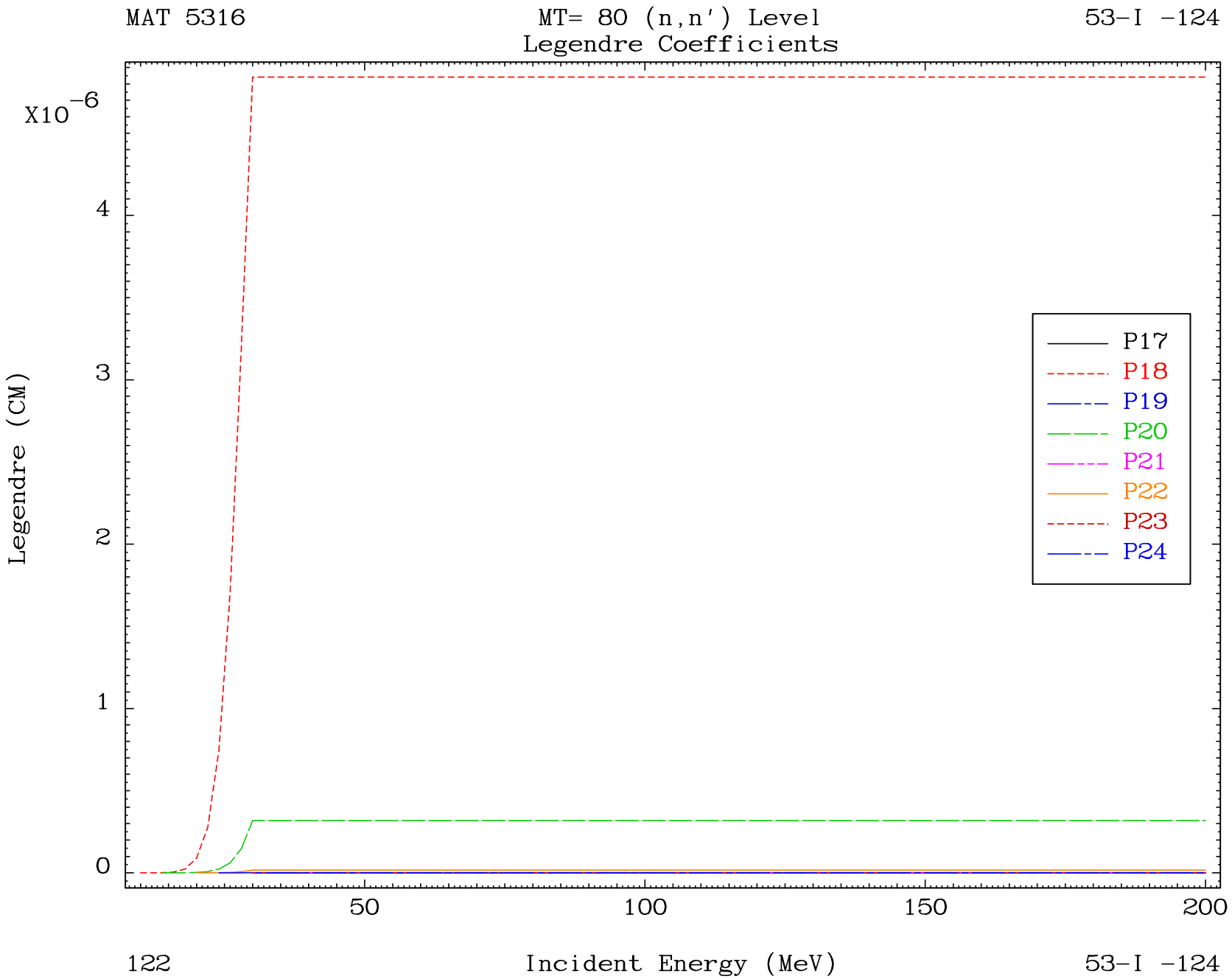

MAT 5316
MT= 79 (n,n') Level
Legendre Coefficients
53-I -124
0.04
0.02
0.00
-0.02
Legendre (CM)
0
50
100
150
200
117
Incident Energy (MeV)
53-I -124
P1
P2
P3
P4
P5
P6
P7
P8

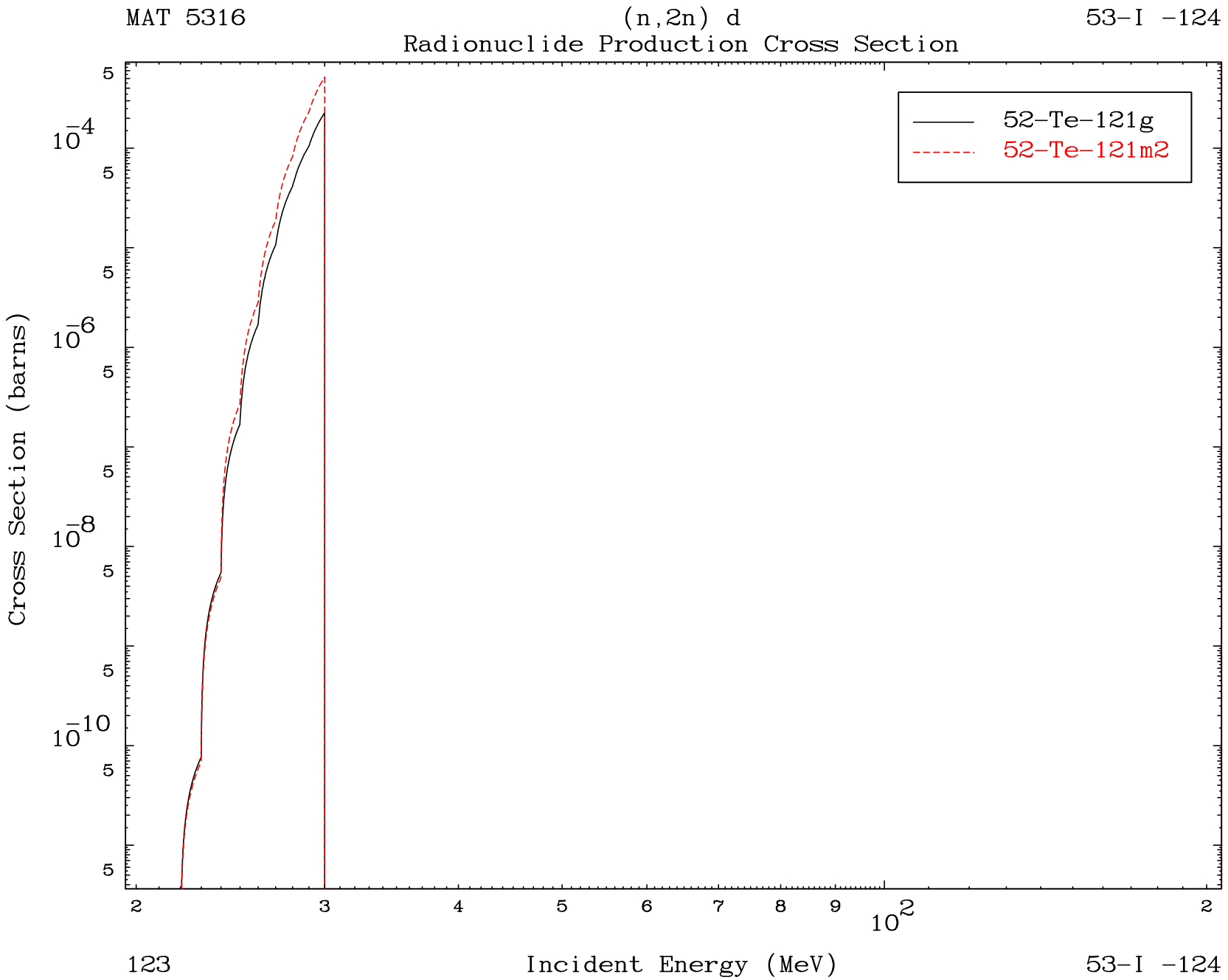

MAT 5316
MT= 79 (n,n') Level
Legendre Coefficients
53-I -124
X10^-4
1
0
-1
-2
Legendre (CM)
0
50
100
150
200
Incident Energy (MeV)
P9
P10
P11
P12
P13
P14
P15
P16

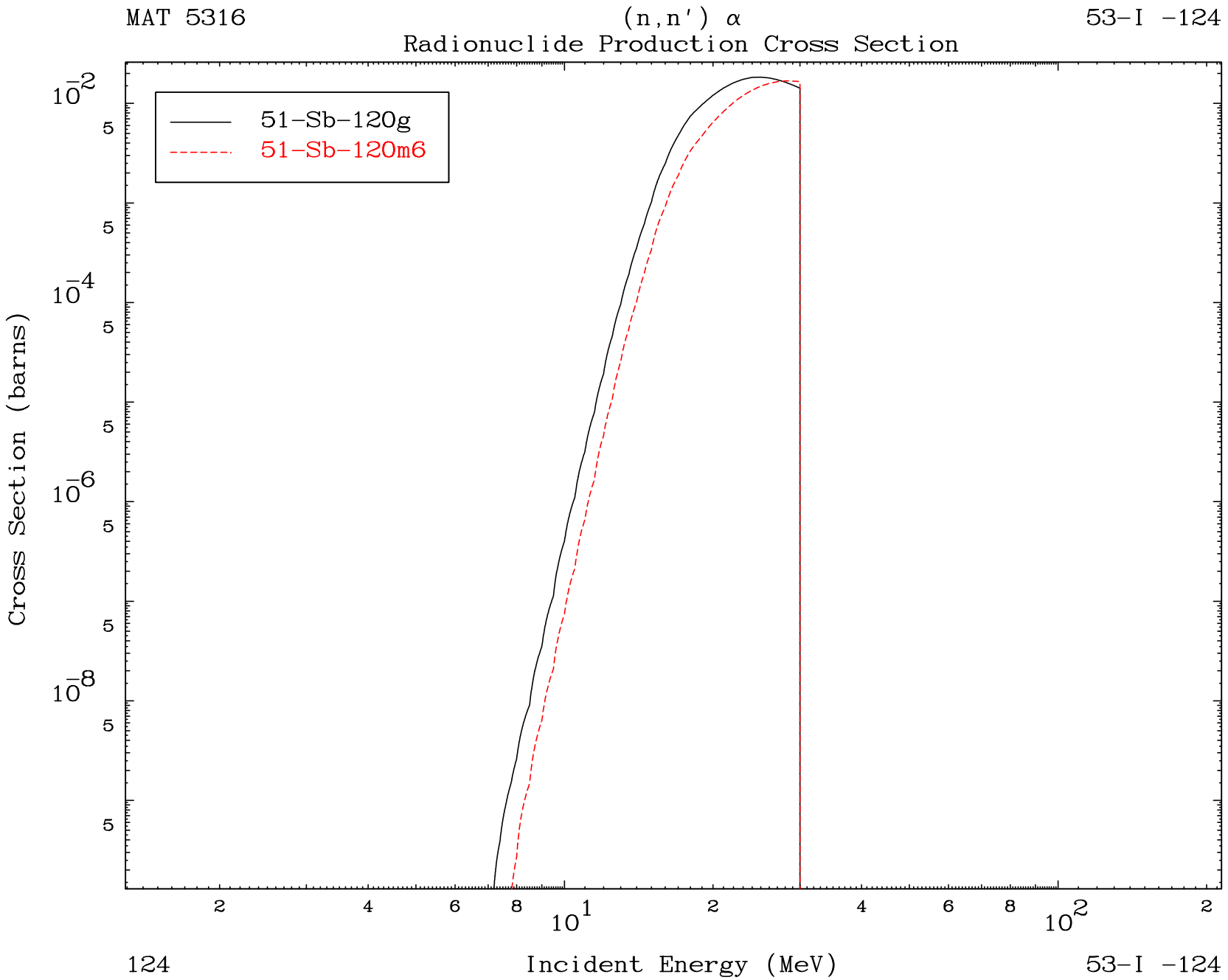

MAT 5316
MT= 79 (n,n') Level
Legendre Coefficients
53-I -124
X10^-6
5
4
3
2
1
0
Legendre (CM)
50
100
150
200
119
Incident Energy (MeV)
53-I -124
P17
P18
P19
P20
P21
P22
P23
P24

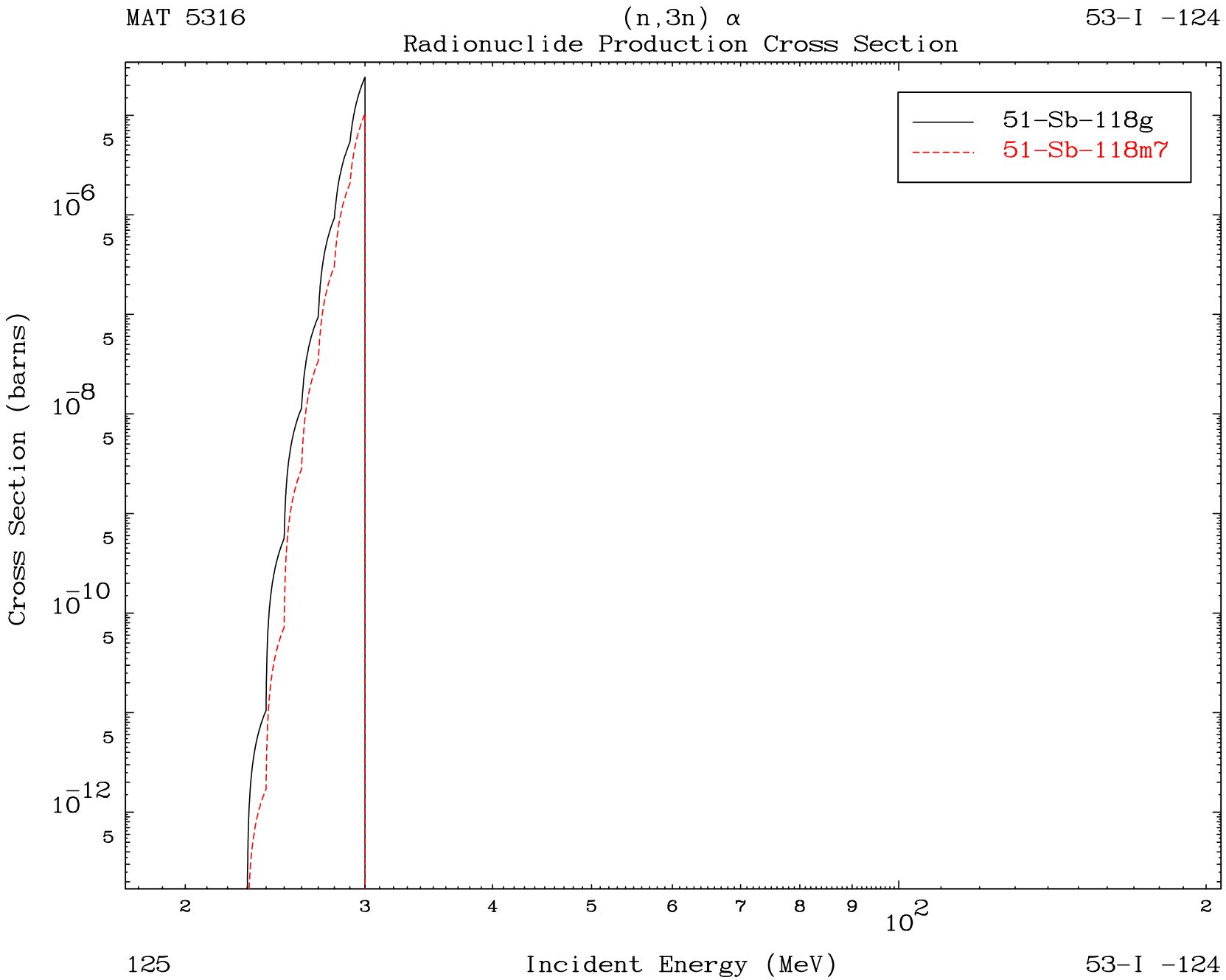

MAT 5316
MT= 80 (n,n') Level
Legendre Coefficients
53-I -124
0.08
0.06
0.04
0.02
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
0
50
100
150
200
120
Incident Energy (MeV)
53-I -124

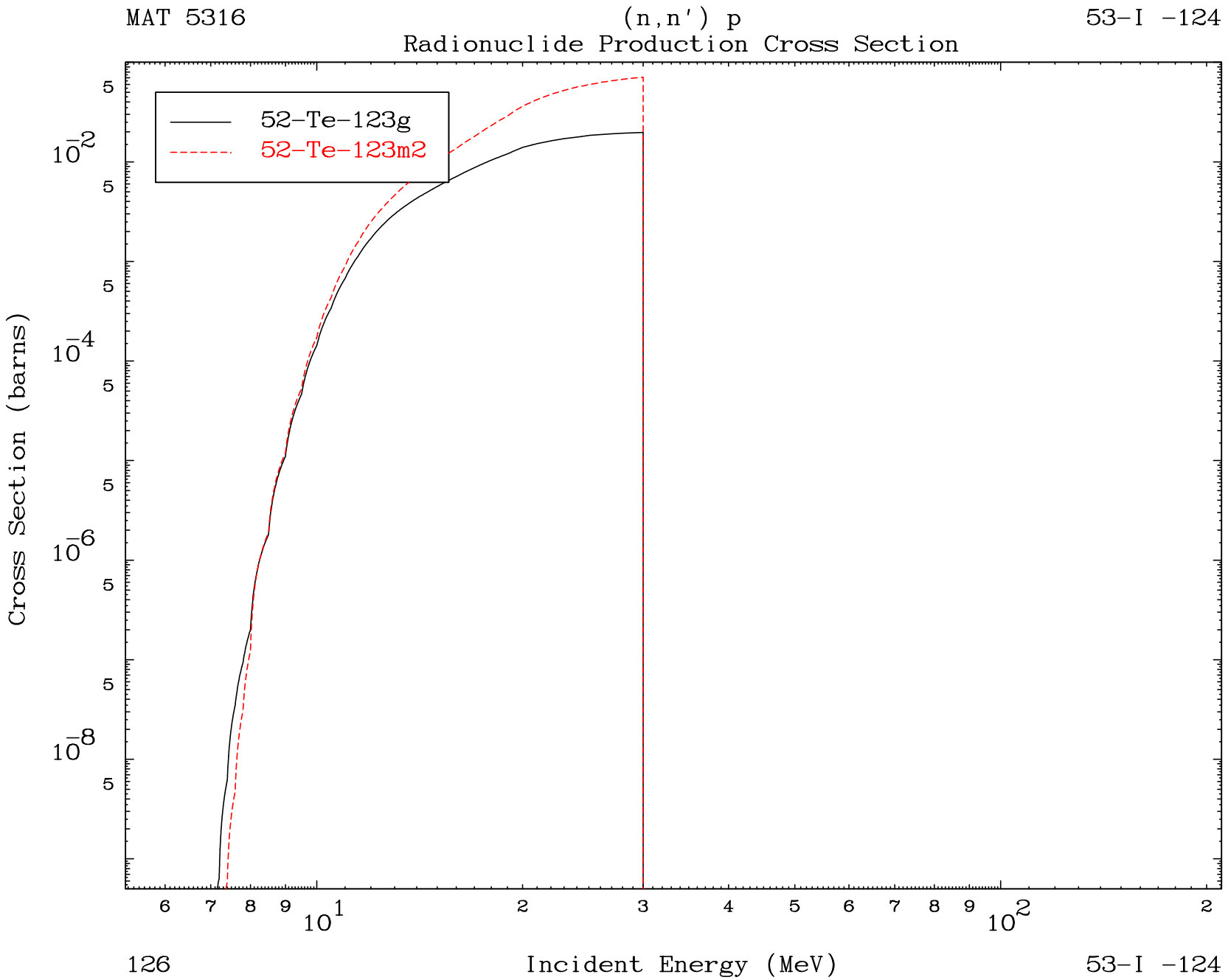

MAT 5316
MT= 80 (n,n') Level
Legendre Coefficients
53-I -124
X10^-4
0
-1
-2
-3
-4
-5
Legendre (CM)
P9
P10
P11
P12
P13
P14
P15
P16
0
50
100
150
200
121
Incident Energy (MeV)
53-I -124

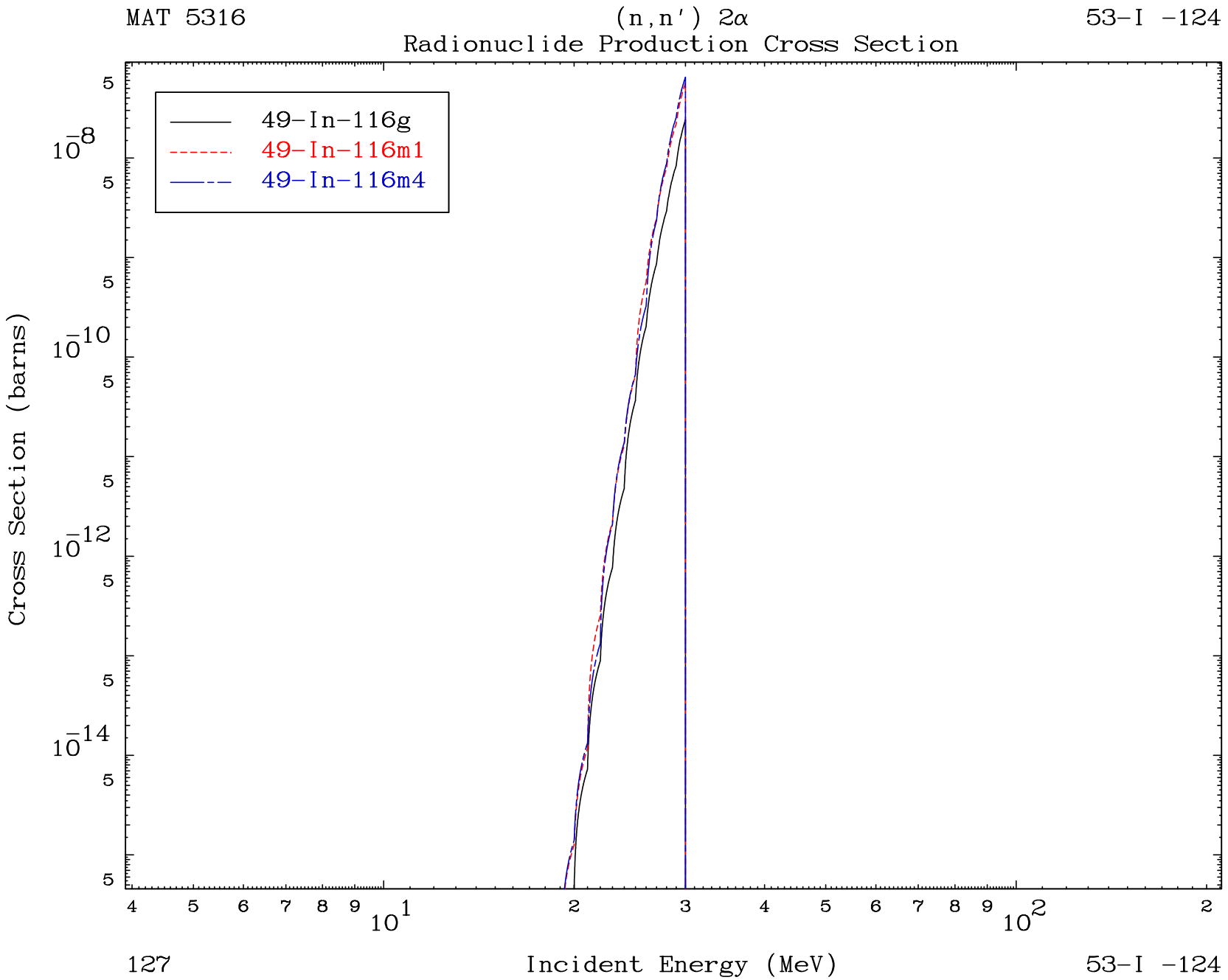

MAT 5316
MT= 80 (n,n') Level
Legendre Coefficients
53-I -124
X10^-6
4
3
2
1
0
Legendre (CM)
50
100
150
200
122
Incident Energy (MeV)
53-I -124
P17
P18
P19
P20
P21
P22
P23
P24

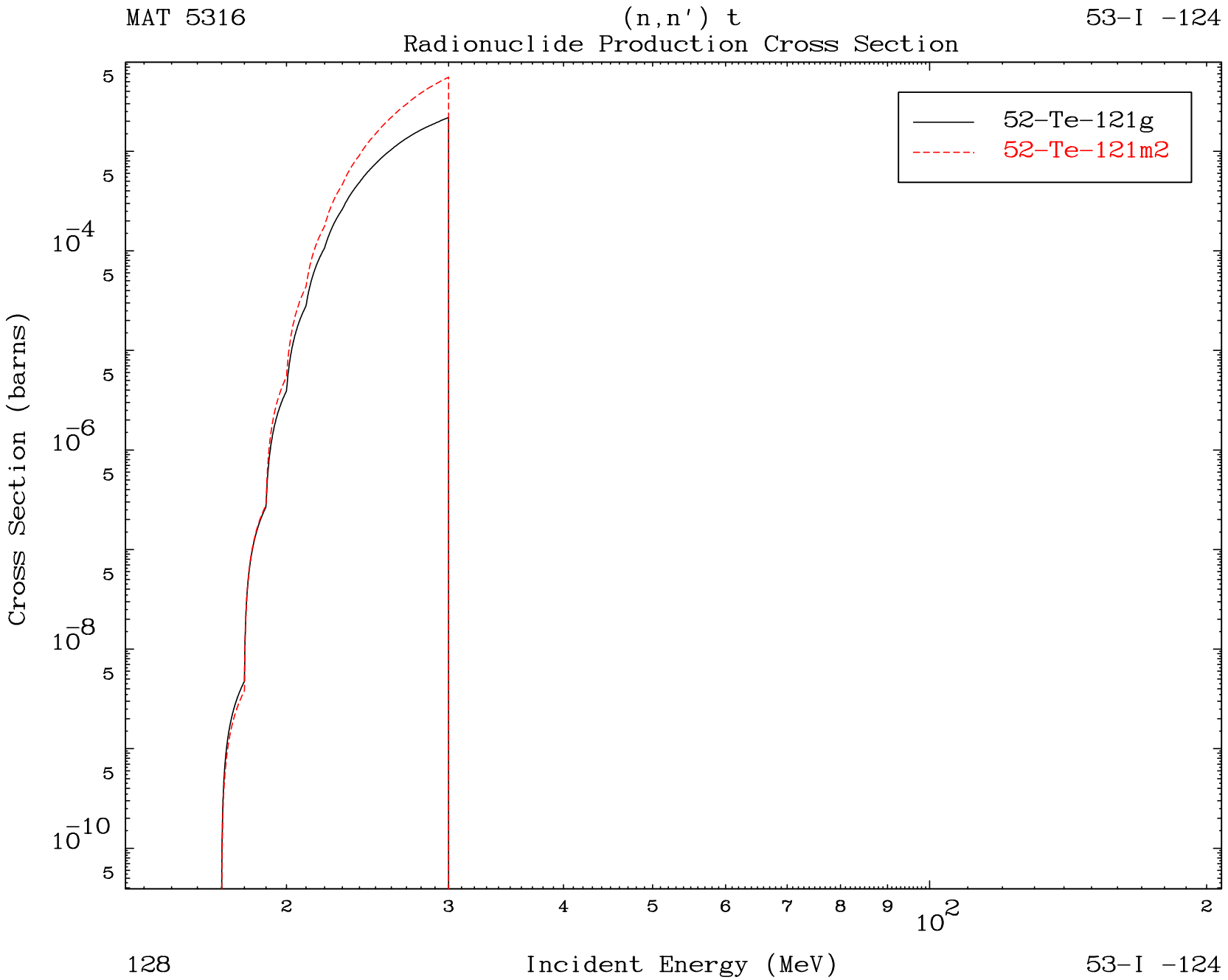

MAT 5316
(n,2n) d
53-I -124
Radionuclide Production Cross Section
52-Te-121g
52-Te-121m2
Cross Section (barns)
Incident Energy (MeV)
123
53-I -124

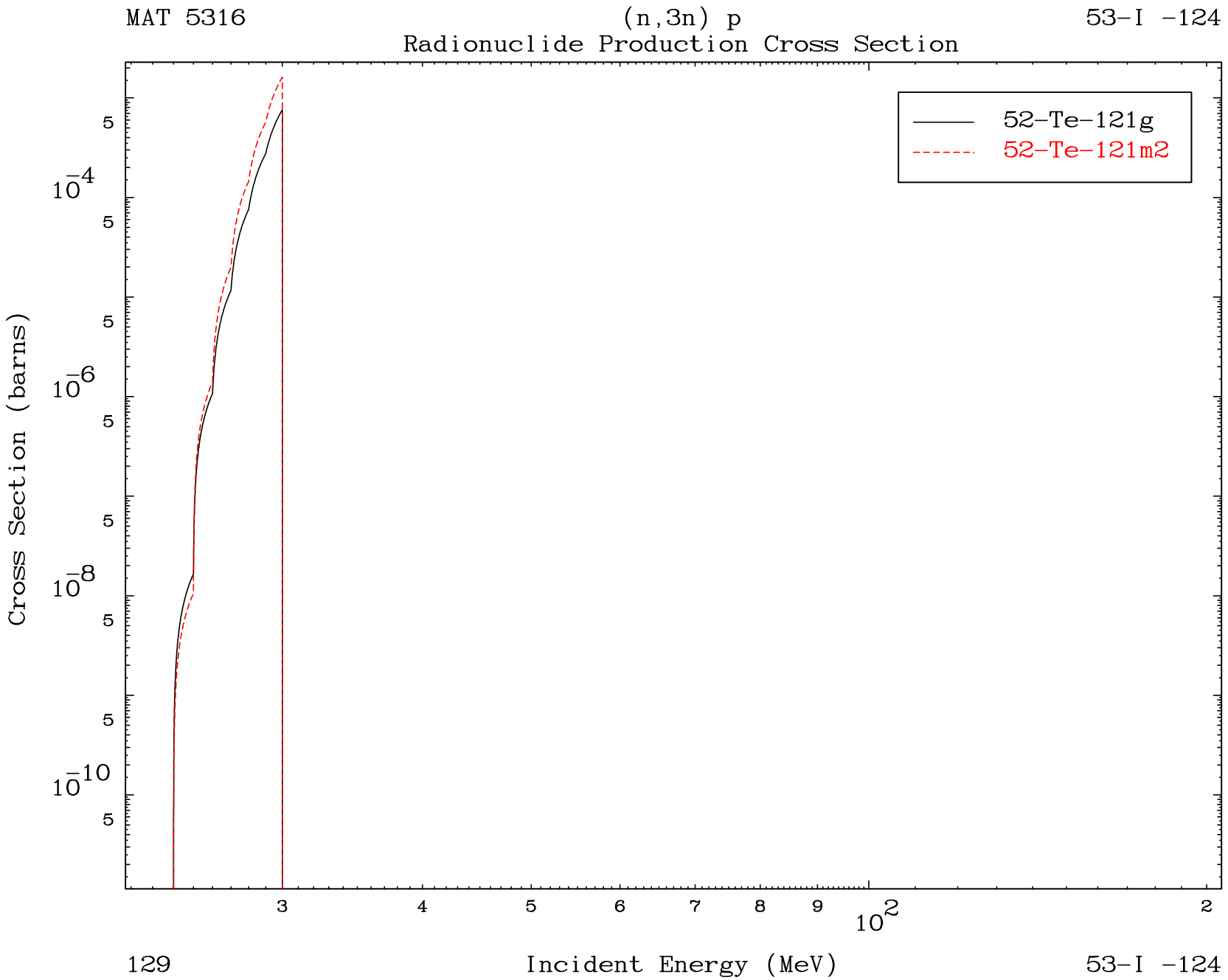

MAT 5316
(n,n') α
53-I -124
Radionuclide Production Cross Section
51-Sb-120g
51-Sb-120m6
Cross Section (barns)
10-2
10-4
10-6
10-8
5
2
4
6
8
101
102
124
Incident Energy (MeV)
53-I -124

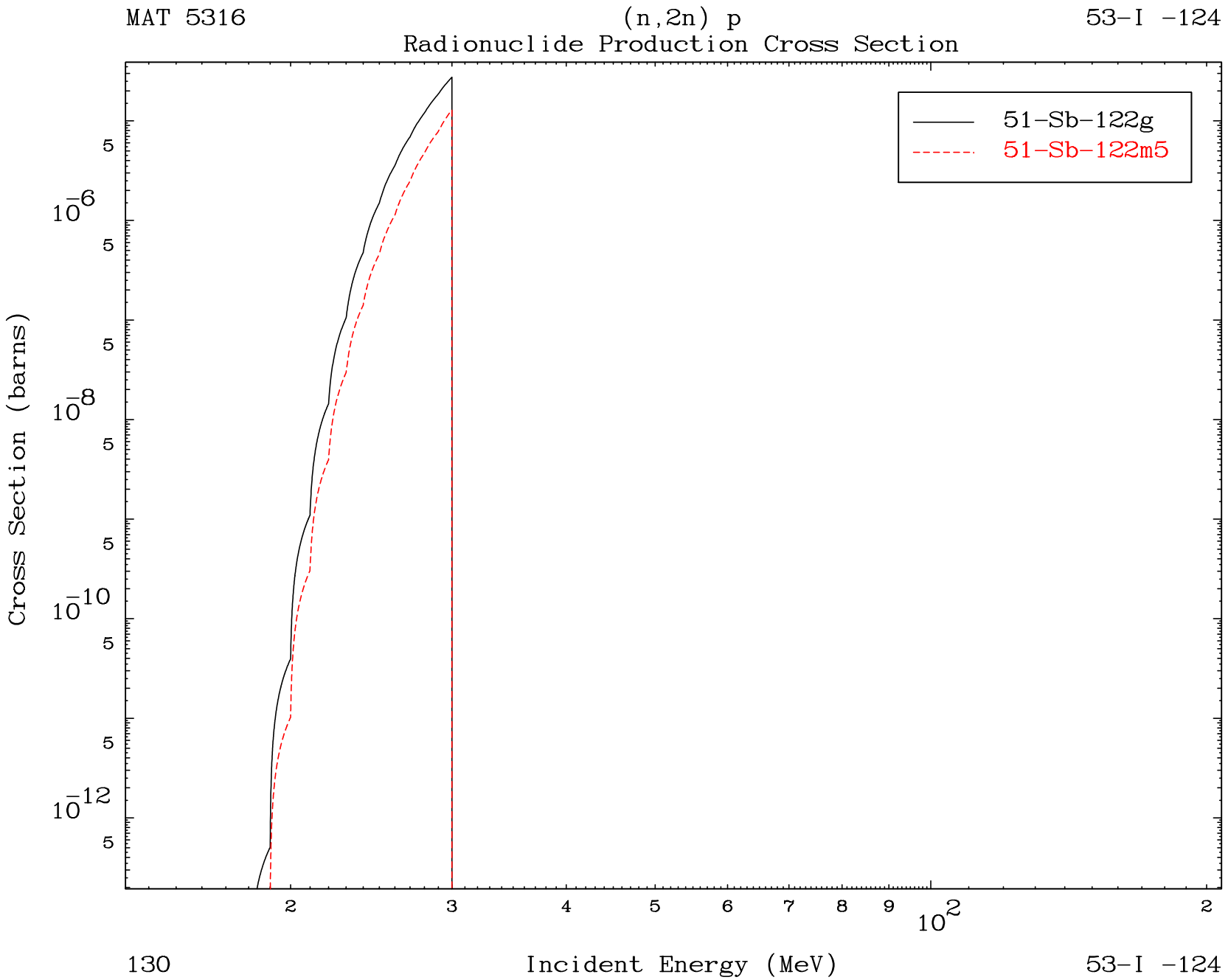

MAT 5316
(n,3n) α
53-I -124
Radionuclide Production Cross Section
51-Sb-118g
51-Sb-118m7
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
2
3
4
5
6
7
8
9
10^2
2
125
Incident Energy (MeV)
53-I -124

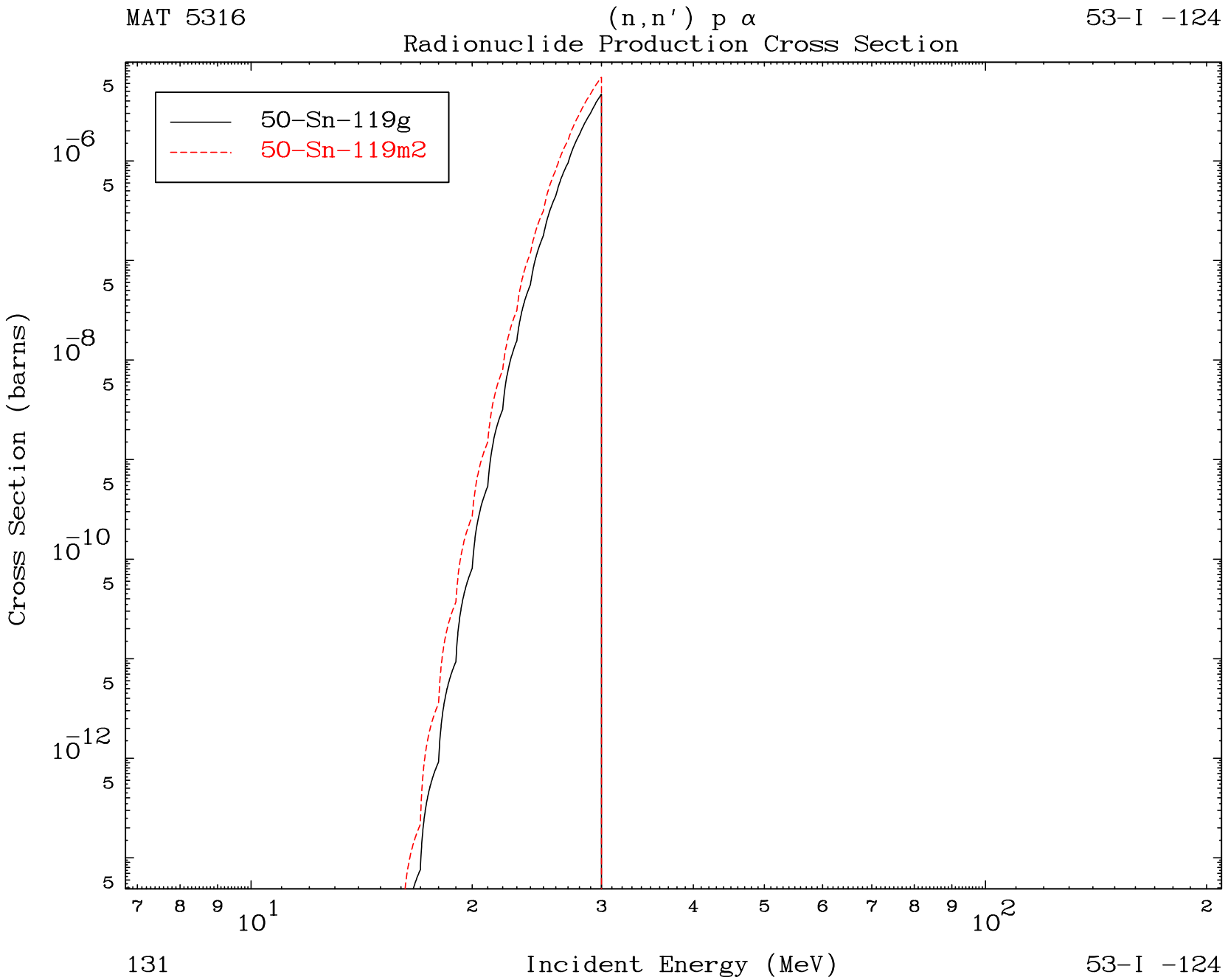

MAT 5316
(n,n') p
53-I -124
Radionuclide Production Cross Section
52-Te-123g
52-Te-123m2
Cross Section (barns)
Incident Energy (MeV)
126
53-I -124

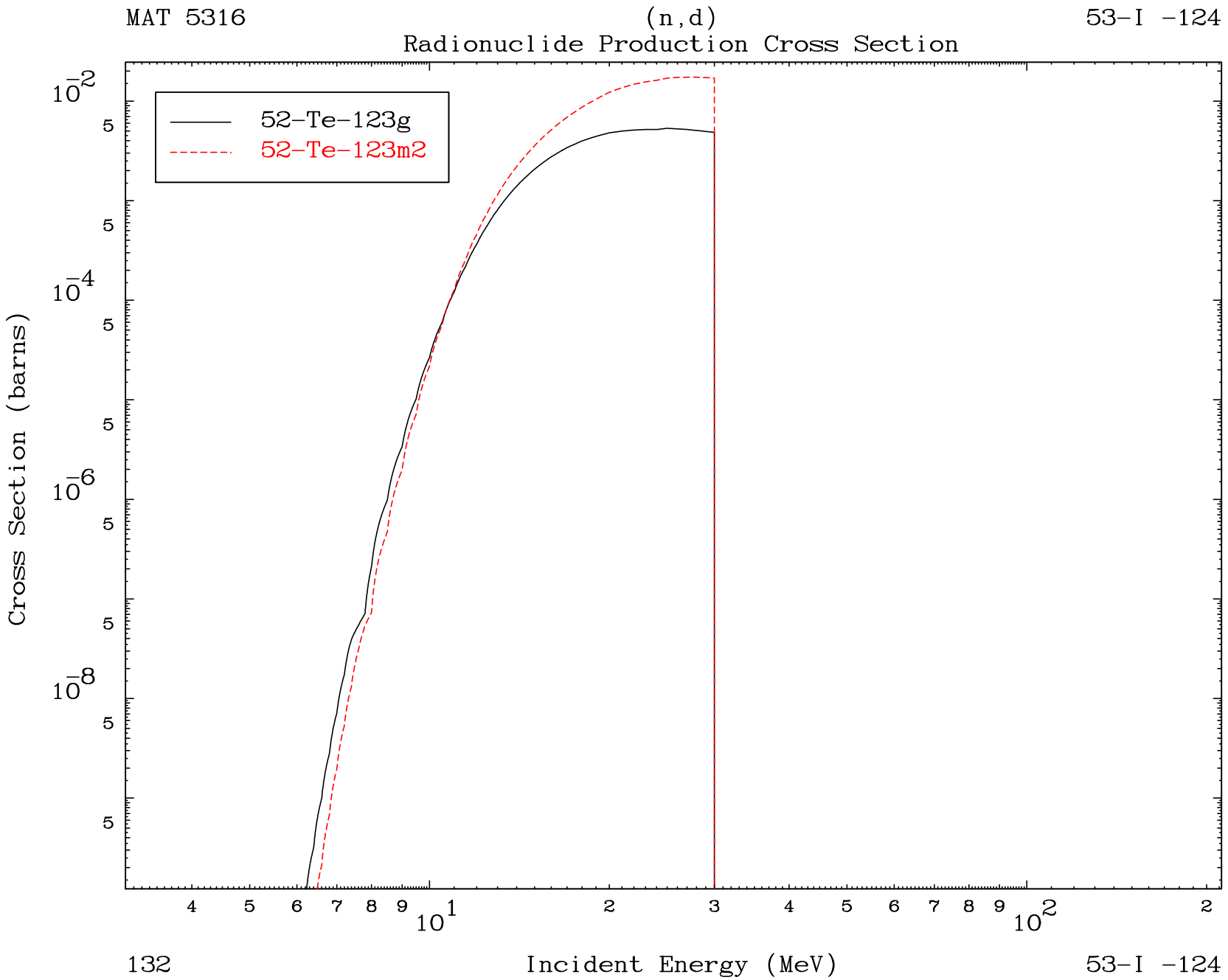

MAT 5316
(n,n') 2α
53-I -124
Radionuclide Production Cross Section
49-In-116g
49-In-116m1
49-In-116m4
Cross Section (barns)
10-8
10-10
10-12
10-14
4 5 6 7 8 9 10 1 2 3 4 5 6 7 8 9 10 2 2
127
Incident Energy (MeV)
53-I -124

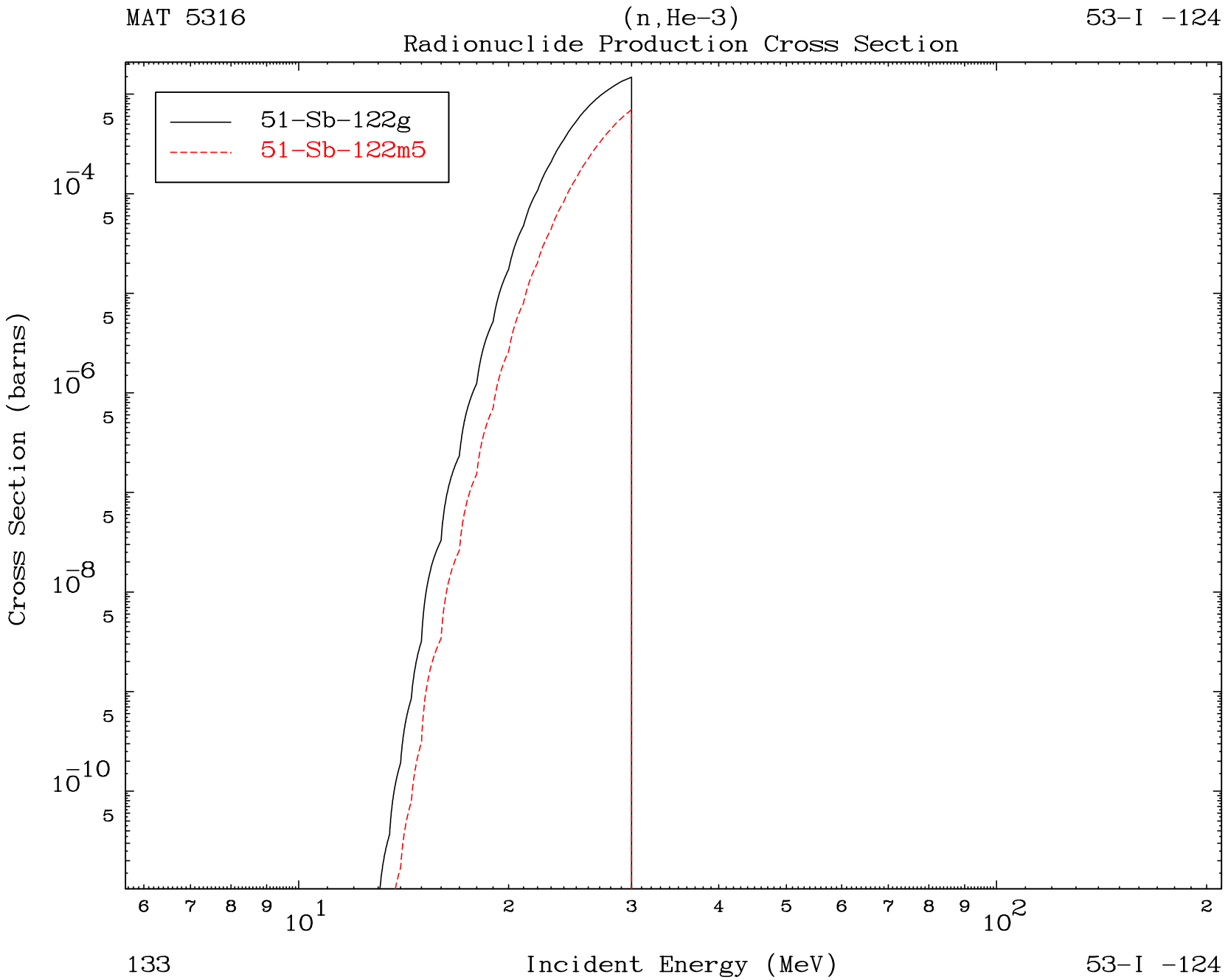

MAT 5316
(n,n') t
53-I -124
Radionuclide Production Cross Section
52-Te-121g
52-Te-121m2
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
2
3
4
5
6
7
8
9
10^2
2
128
Incident Energy (MeV)
53-I -124

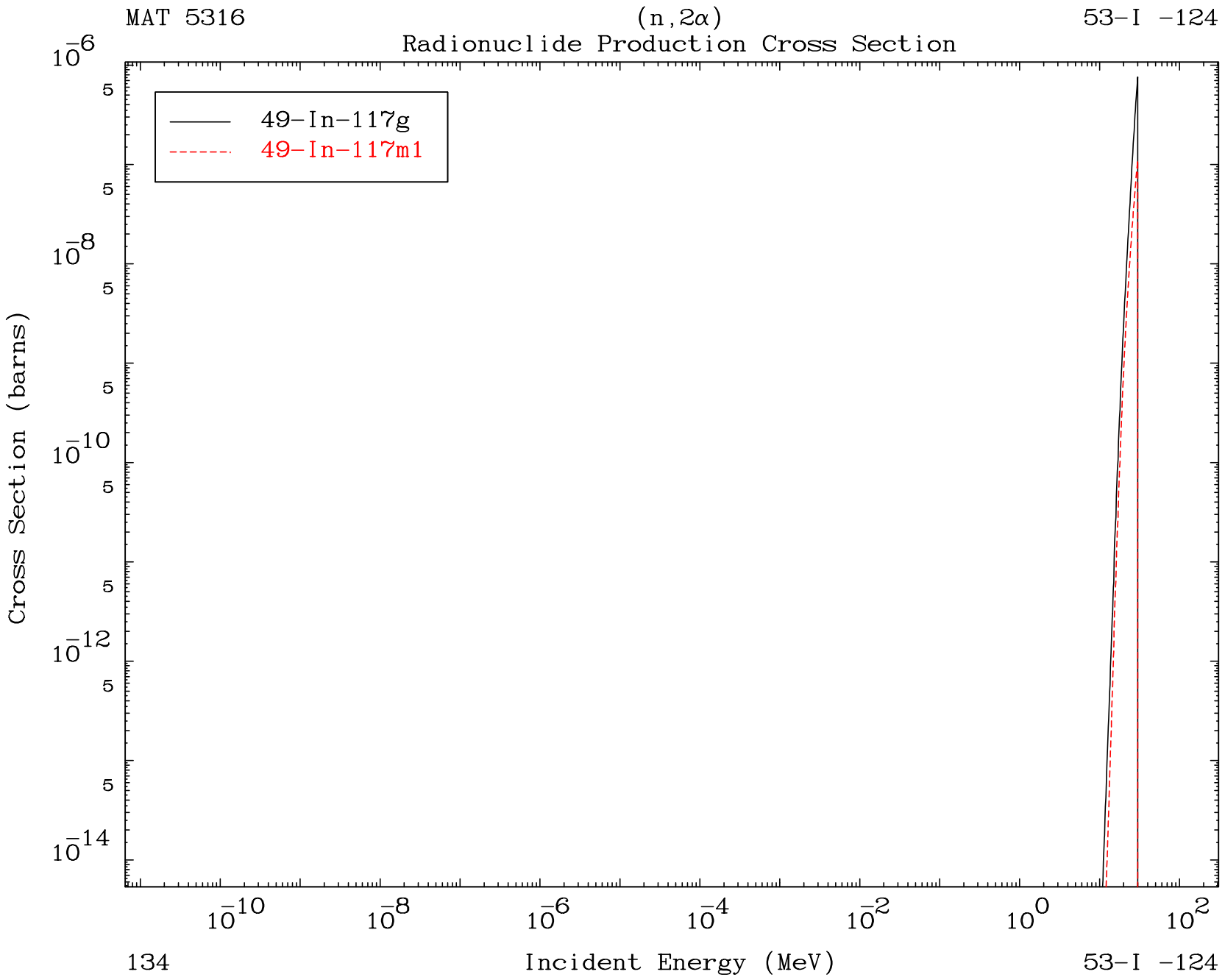

MAT 5316
(n,3n) p
53-I -124
Radionuclide Production Cross Section
52-Te-121g
52-Te-121m2
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
3
4
5
6
7
8
9
10^2
2
129
Incident Energy (MeV)
53-I -124

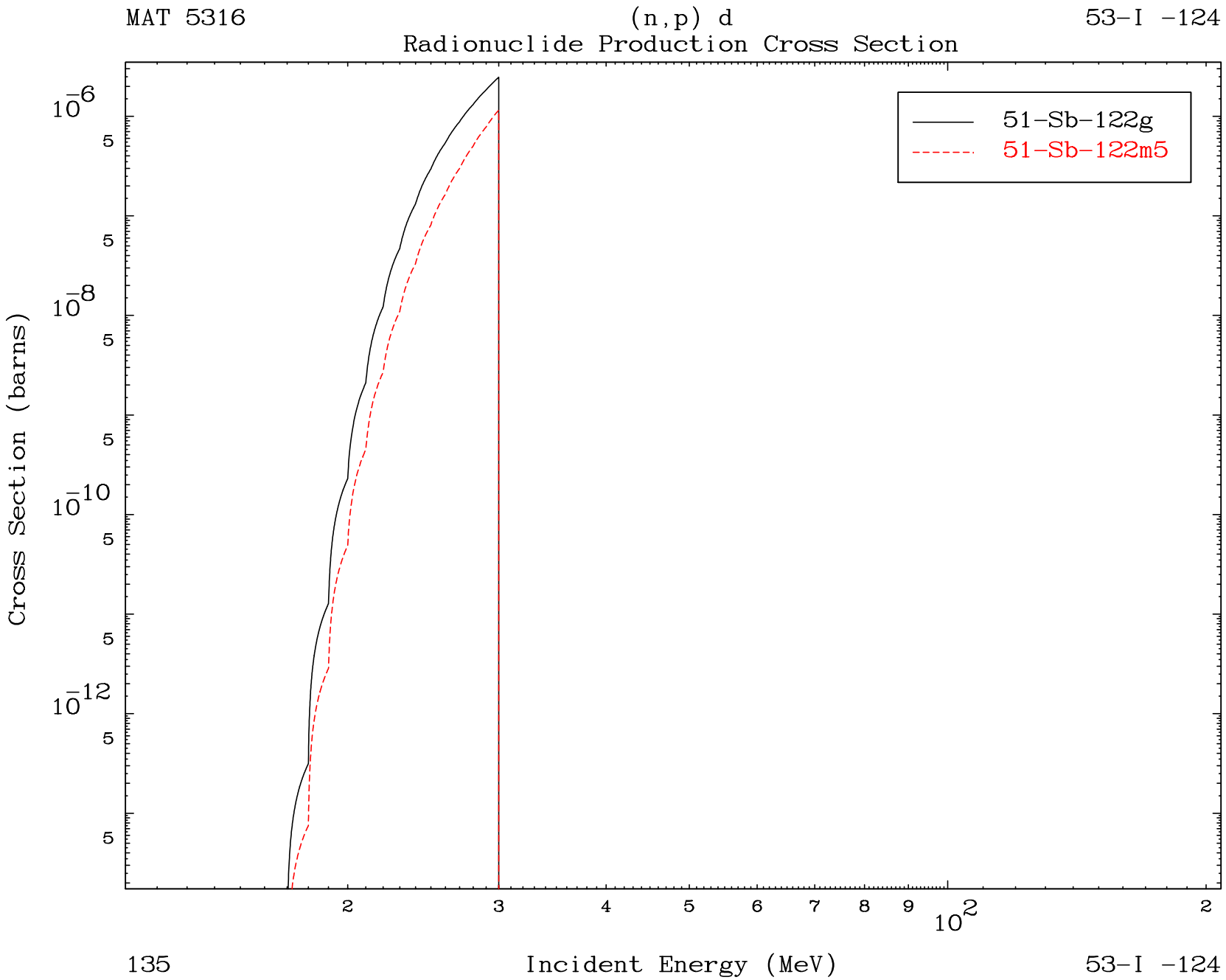

MAT 5316
(n,2n) p
53-I -124
Radionuclide Production Cross Section
51-Sb-122g
51-Sb-122m5
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
2
3
4
5
6
7
8
9
10^2
2
130
Incident Energy (MeV)
53-I -124

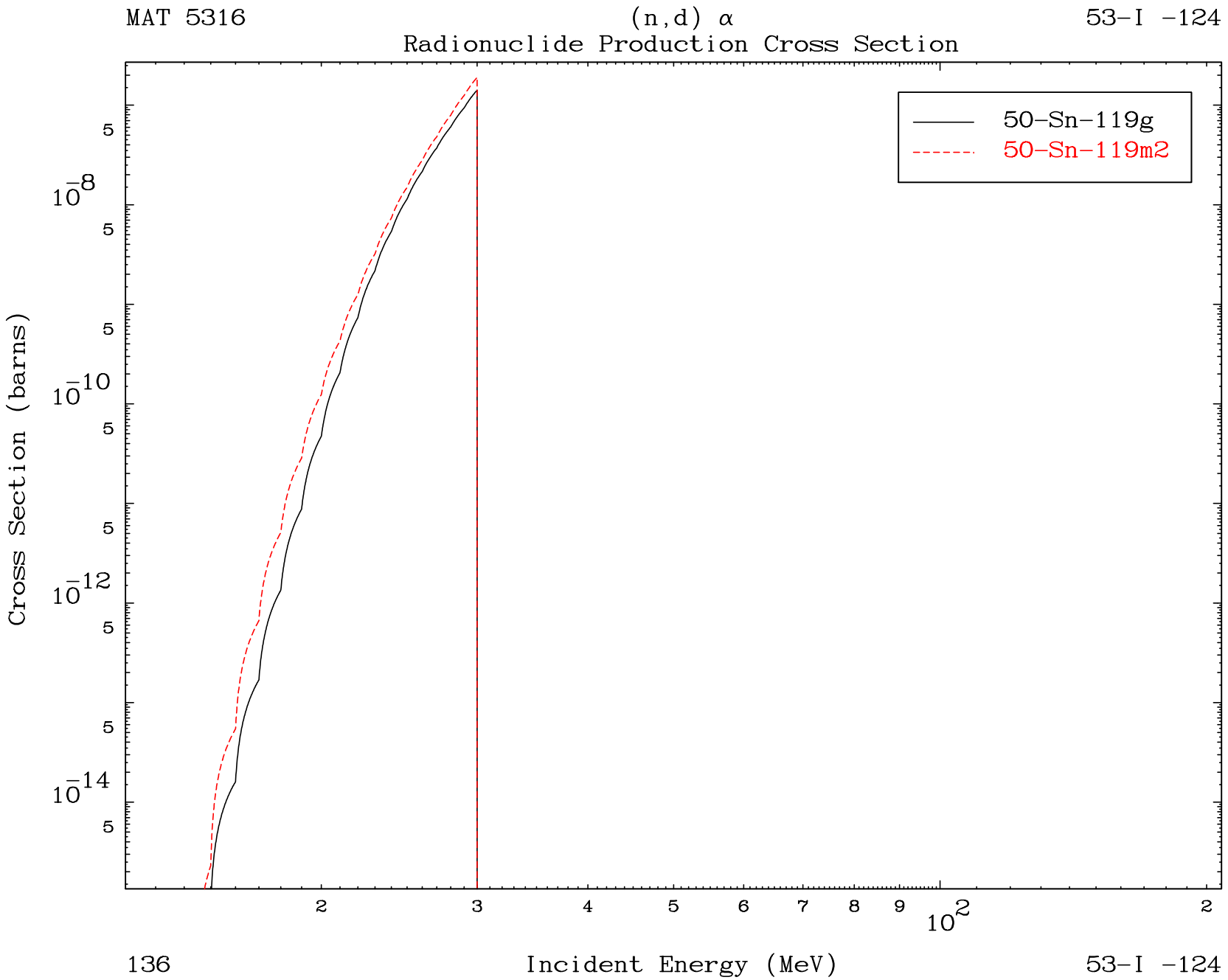

MAT 5316
(n,n') p α
53-I -124
Radionuclide Production Cross Section
50-Sn-119g
50-Sn-119m2
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
131
Incident Energy (MeV)
53-I -124


MAT 5316
(n,d)
53-I -124
Radionuclide Production Cross Section
52-Te-123g
52-Te-123m2
Cross Section (barns)
Incident Energy (MeV)
132
53-I -124


MAT 5316
(n,He-3)
53-I -124
Radionuclide Production Cross Section
51-Sb-122g
51-Sb-122m5
Cross Section (barns)
10-4
10-6
10-8
10-10
6 7 8 9 10 1 2 3 4 5 6 7 8 9 10 2 2
133
Incident Energy (MeV)
53-I -124


MAT 5316
(n,2α)
53-I -124
Radionuclide Production Cross Section
49-In-117g
49-In-117m1
Cross Section (barns)
Incident Energy (MeV)
134
53-I -124


MAT 5316
(n,p) d
53-I -124
Radionuclide Production Cross Section
51-Sb-122g
51-Sb-122m5
Cross Section (barns)
Incident Energy (MeV)
135
53-I -124


MAT 5316
(n,d) α
53-I -124
Radionuclide Production Cross Section
50-Sn-119g
50-Sn-119m2
Cross Section (barns)
10-8
10-10
10-12
10-14
5
2
3
4
5
6
7
8
9
10 2
2
136
Incident Energy (MeV)
53-I -124