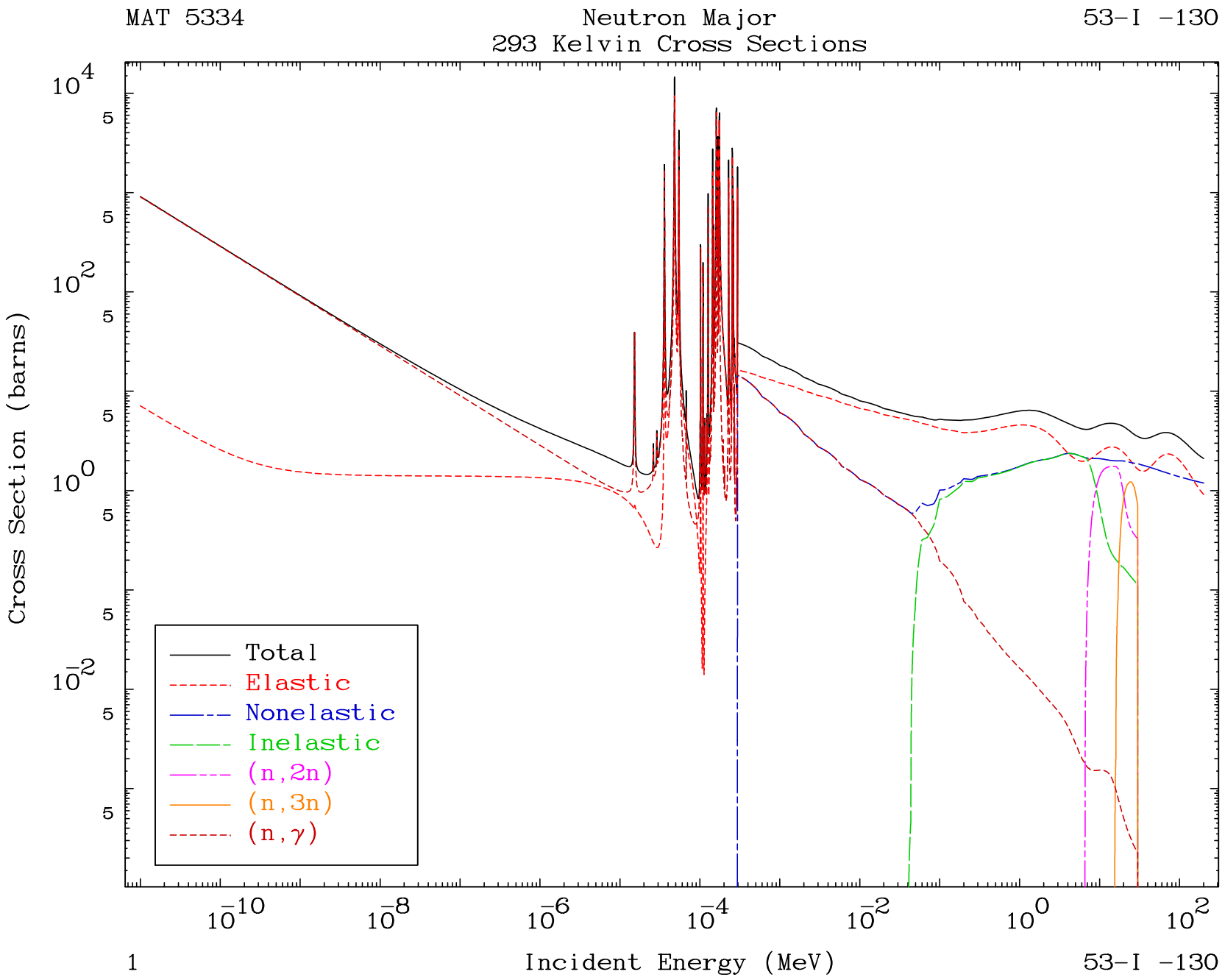
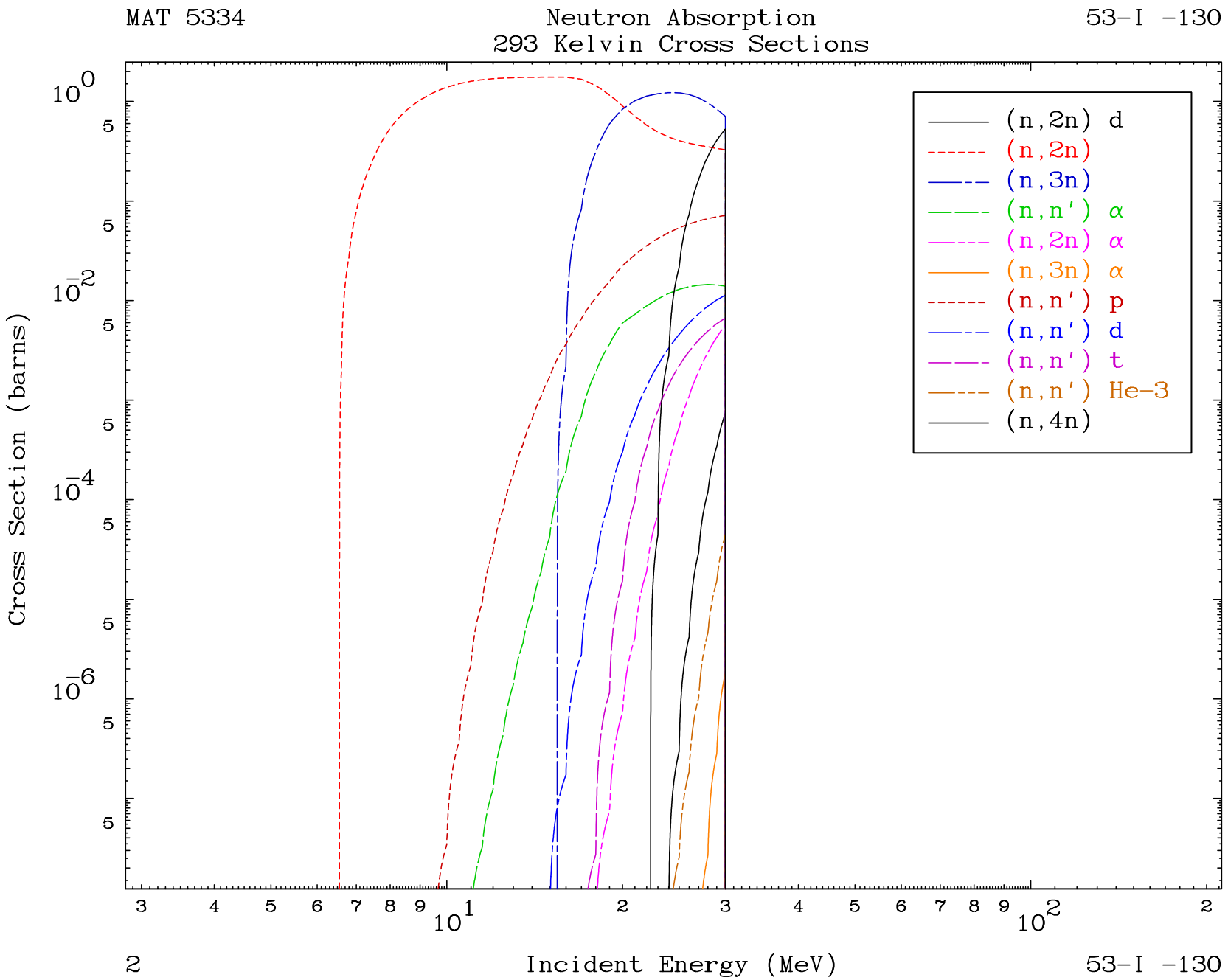
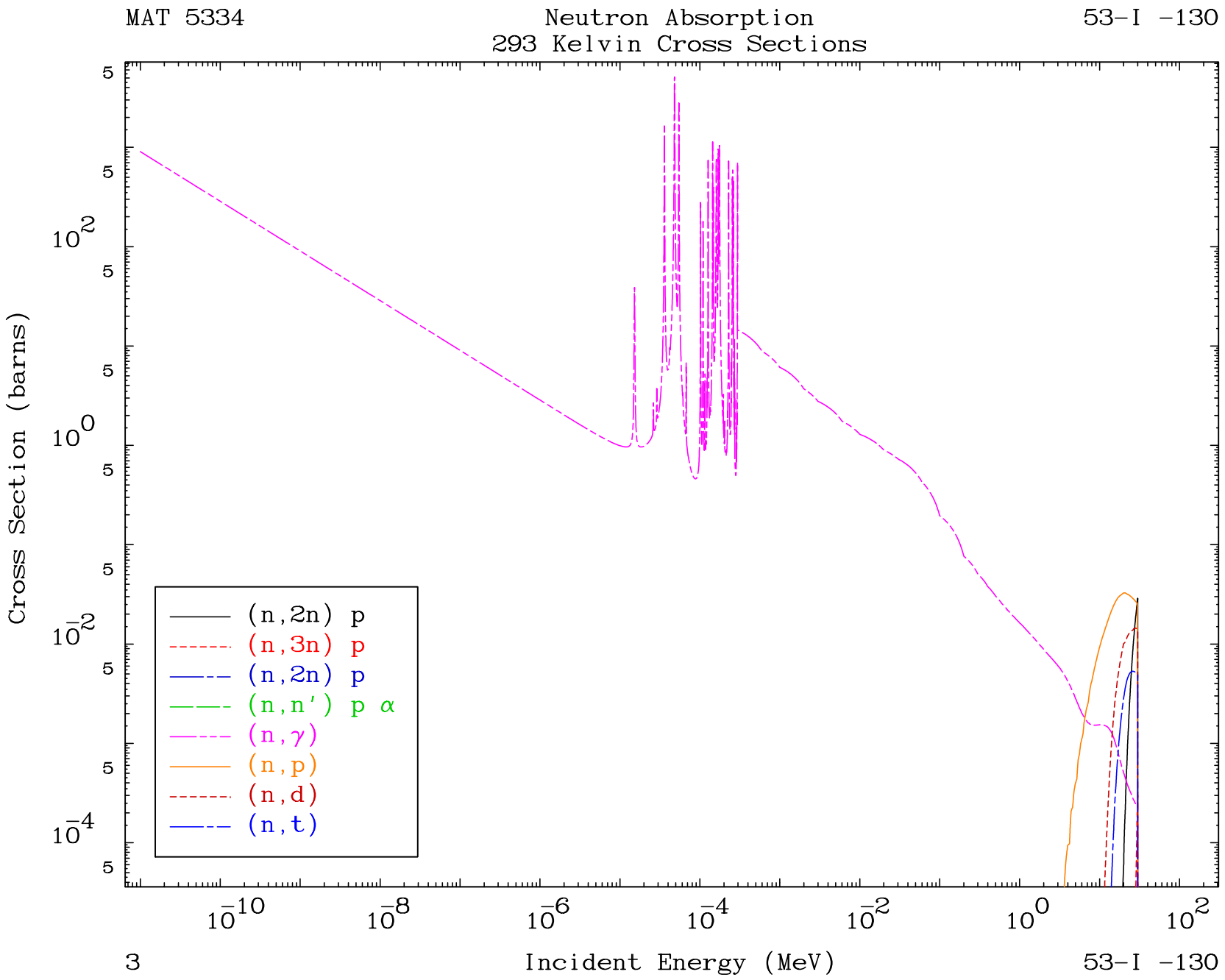
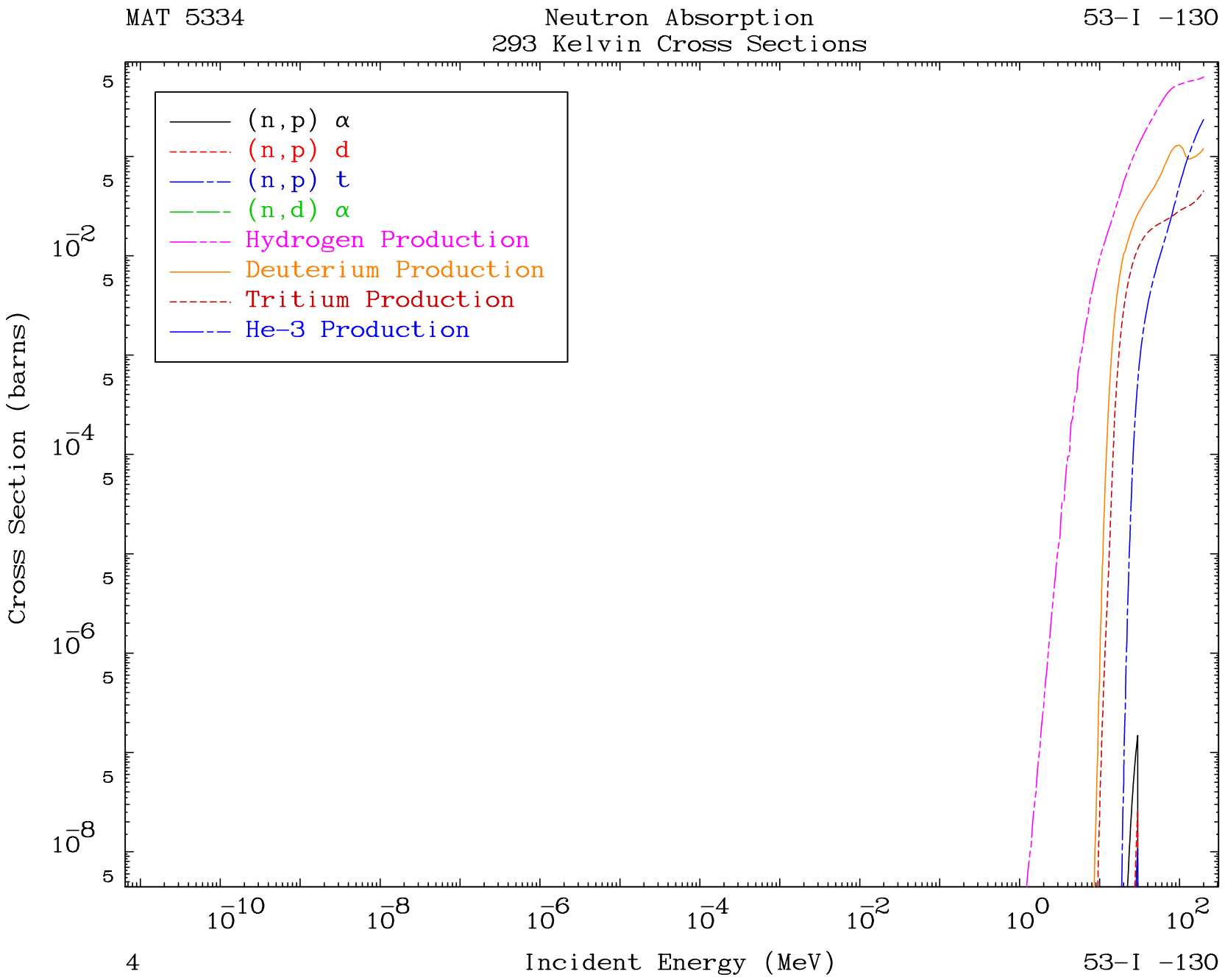
Program EVALPLOT
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

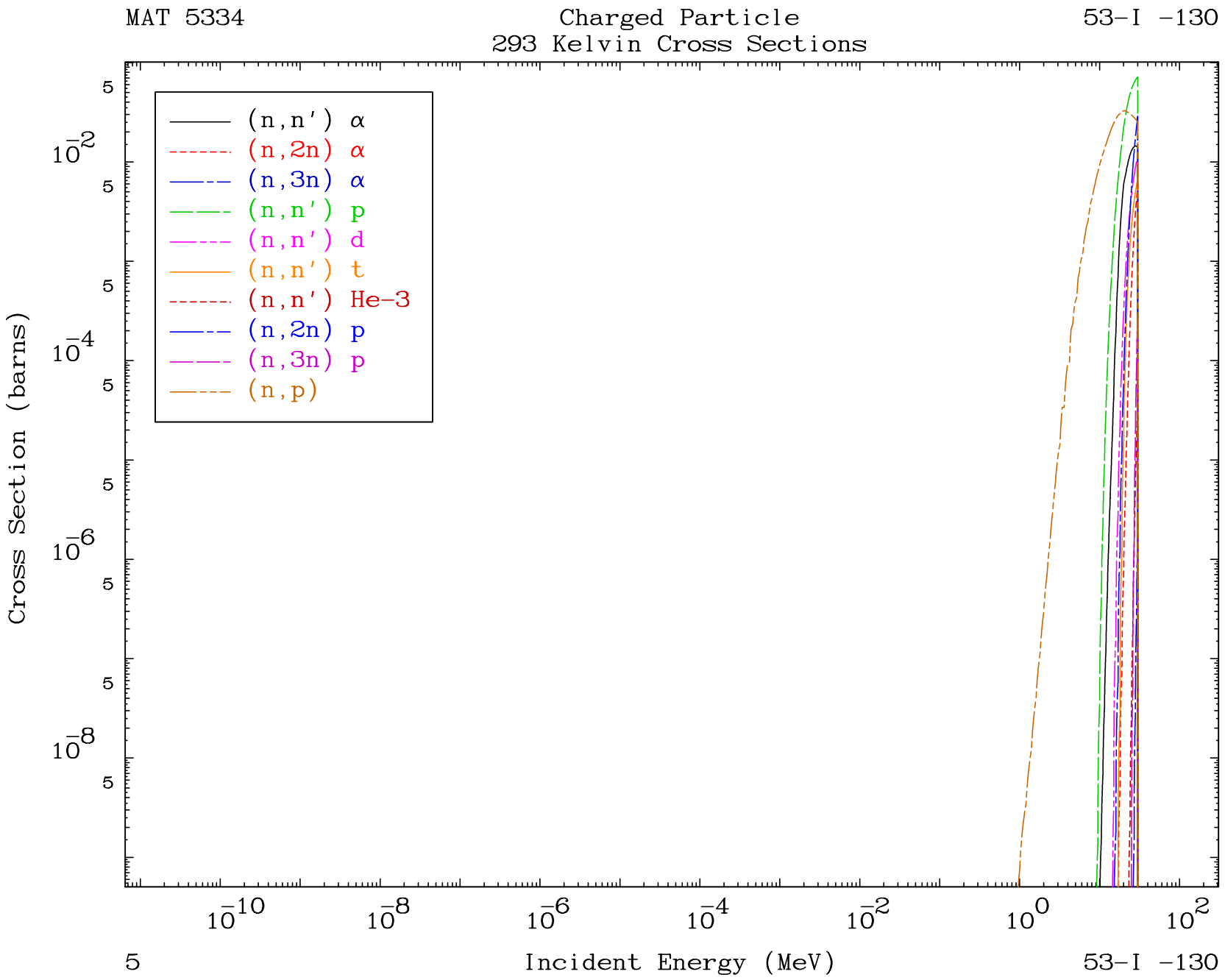
Press Mouse Button to Start

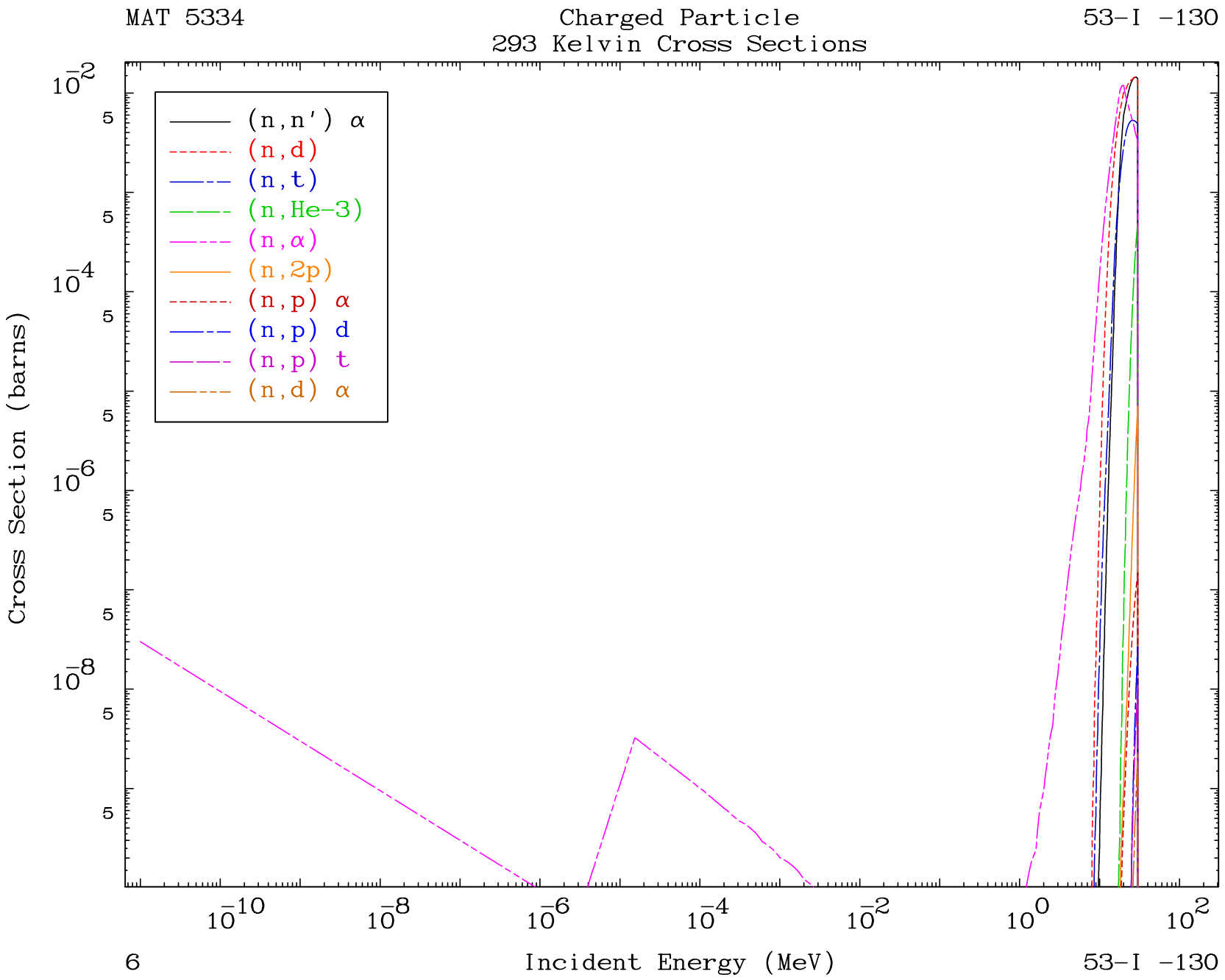

MAT 5334
Neutron Major
53-I -130
293 Kelvin Cross Sections
Cross Section (barns)
Incident Energy (MeV)
Total
Elastic
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)
1
53-I -130

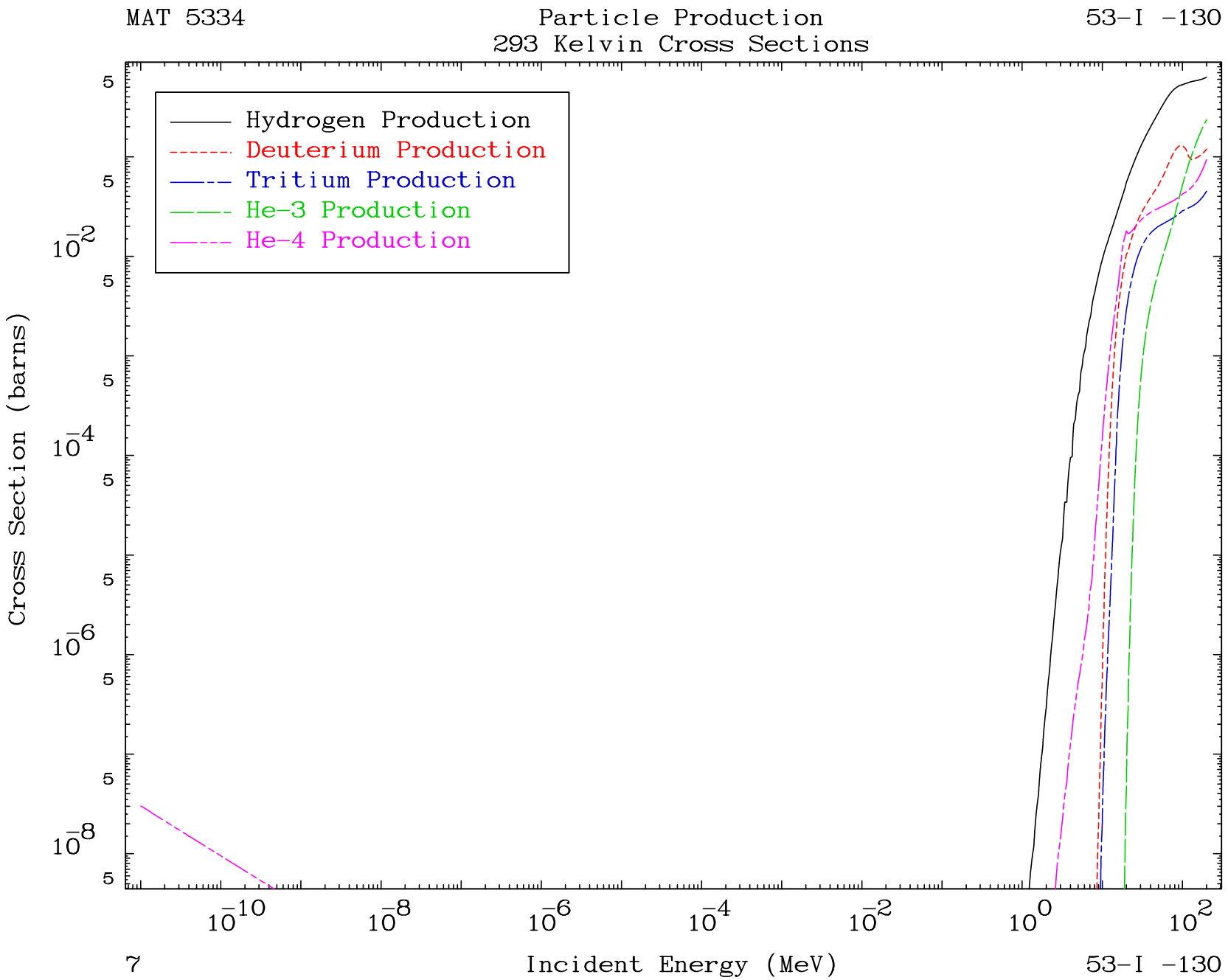

MAT 5334
Neutron Absorption
293 Kelvin Cross Sections
53-I -130
Cross Section (barns)
Incident Energy (MeV)
(n,2n) d
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') d
(n,n') t
(n,n') He-3
(n,4n)

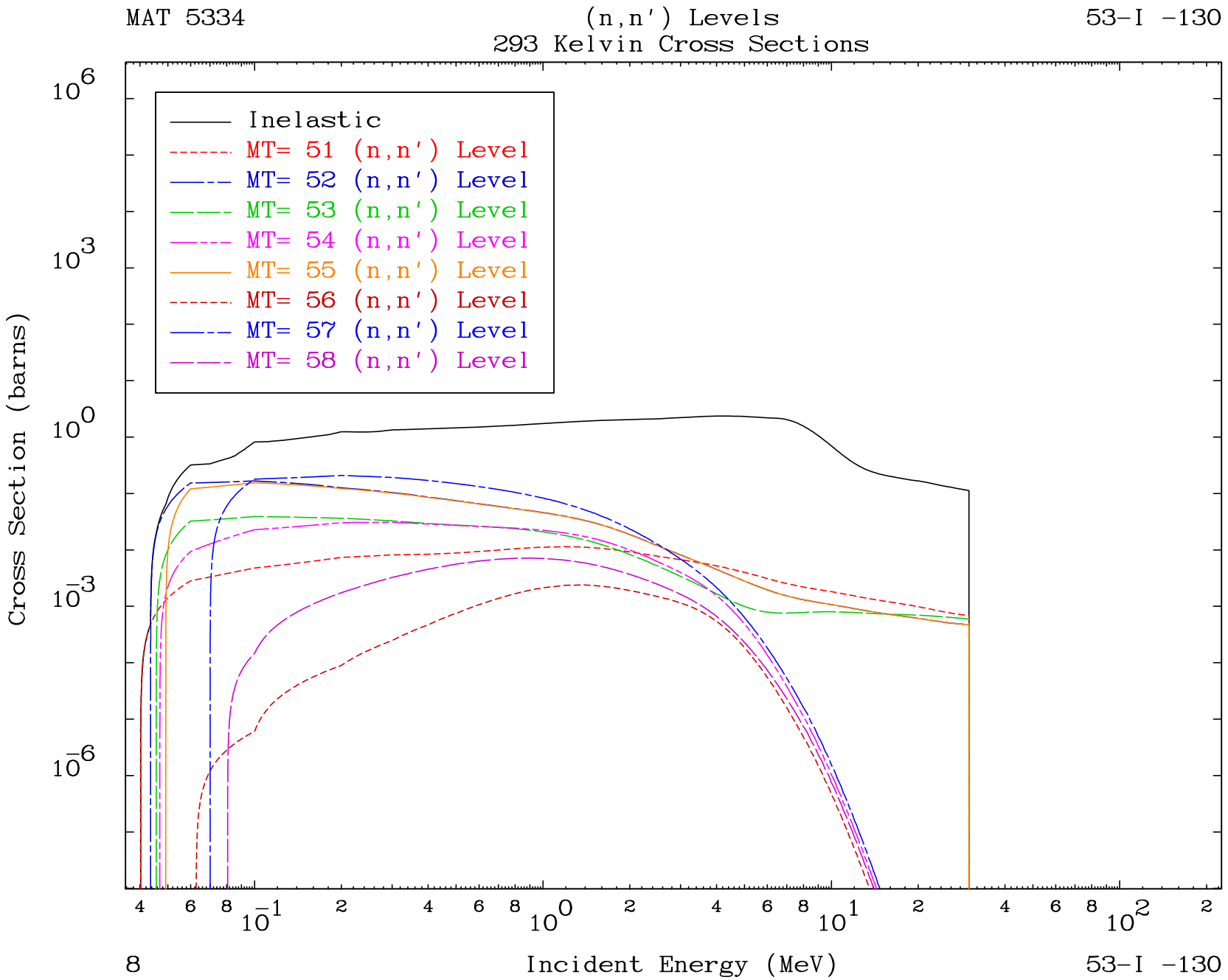

MAT 5334
Neutron Absorption
293 Kelvin Cross Sections
53-I -130
Cross Section (barns)
10^{2}
10^{0}
10^{-2}
10^{-4}
5
10^{-10}
10^{-8}
10^{-6}
10^{-4}
10^{-2}
10^{0}
10^{2}
Incident Energy (MeV)
(n,2n) p
(n,3n) p
(n,2n) p
(n,n') p α
(n,γ)
(n,p)
(n,d)
(n,t)
3
53-I -130

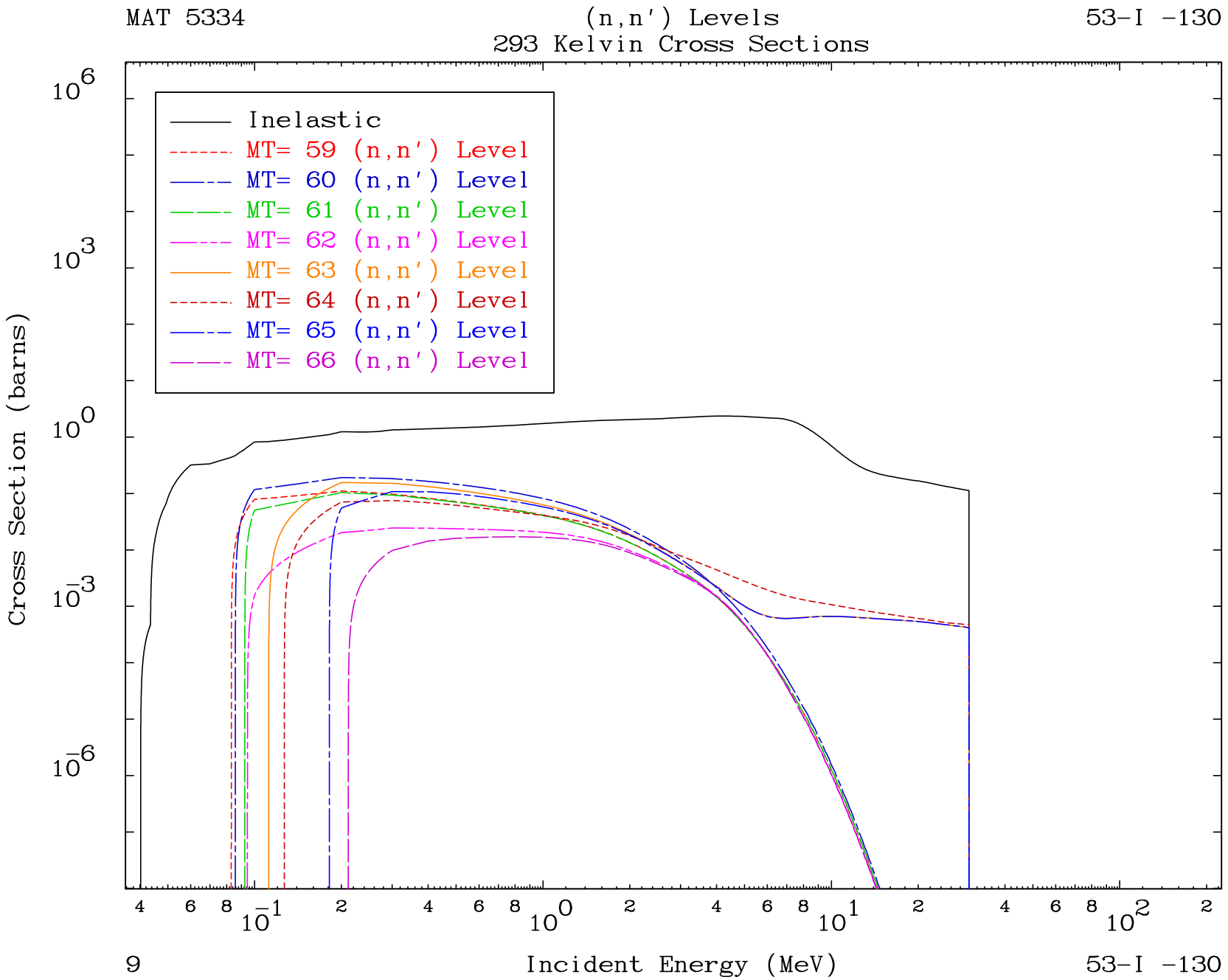

MAT 5334
Neutron Absorption
293 Kelvin Cross Sections
53-I -130
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
Cross Section (barns)
Incident Energy (MeV)
4
53-I -130

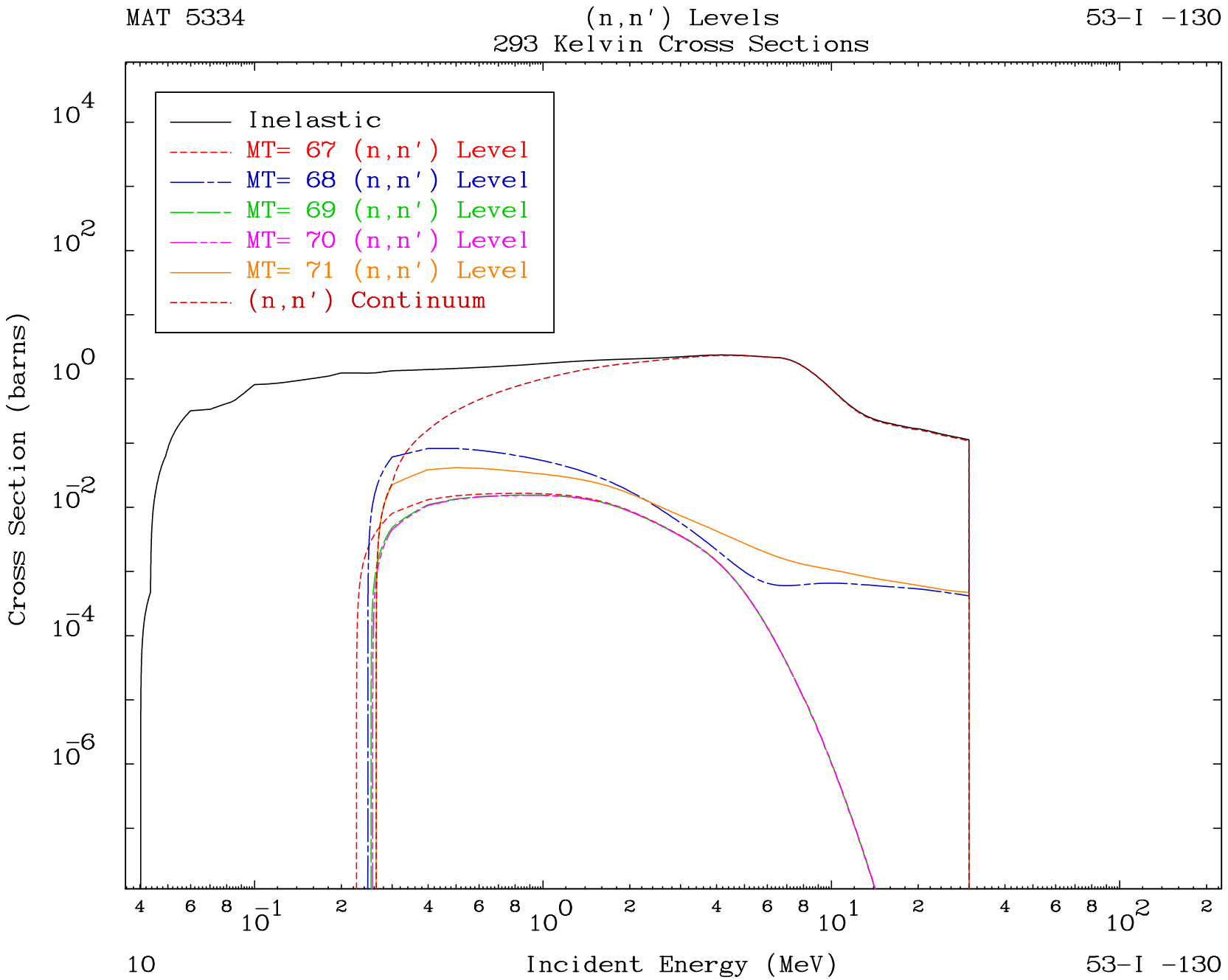

MAT 5334
Charged Particle
293 Kelvin Cross Sections
53-I -130
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
(n,3n) p
(n,p)
Cross Section (barns)
Incident Energy (MeV)
53-I -130

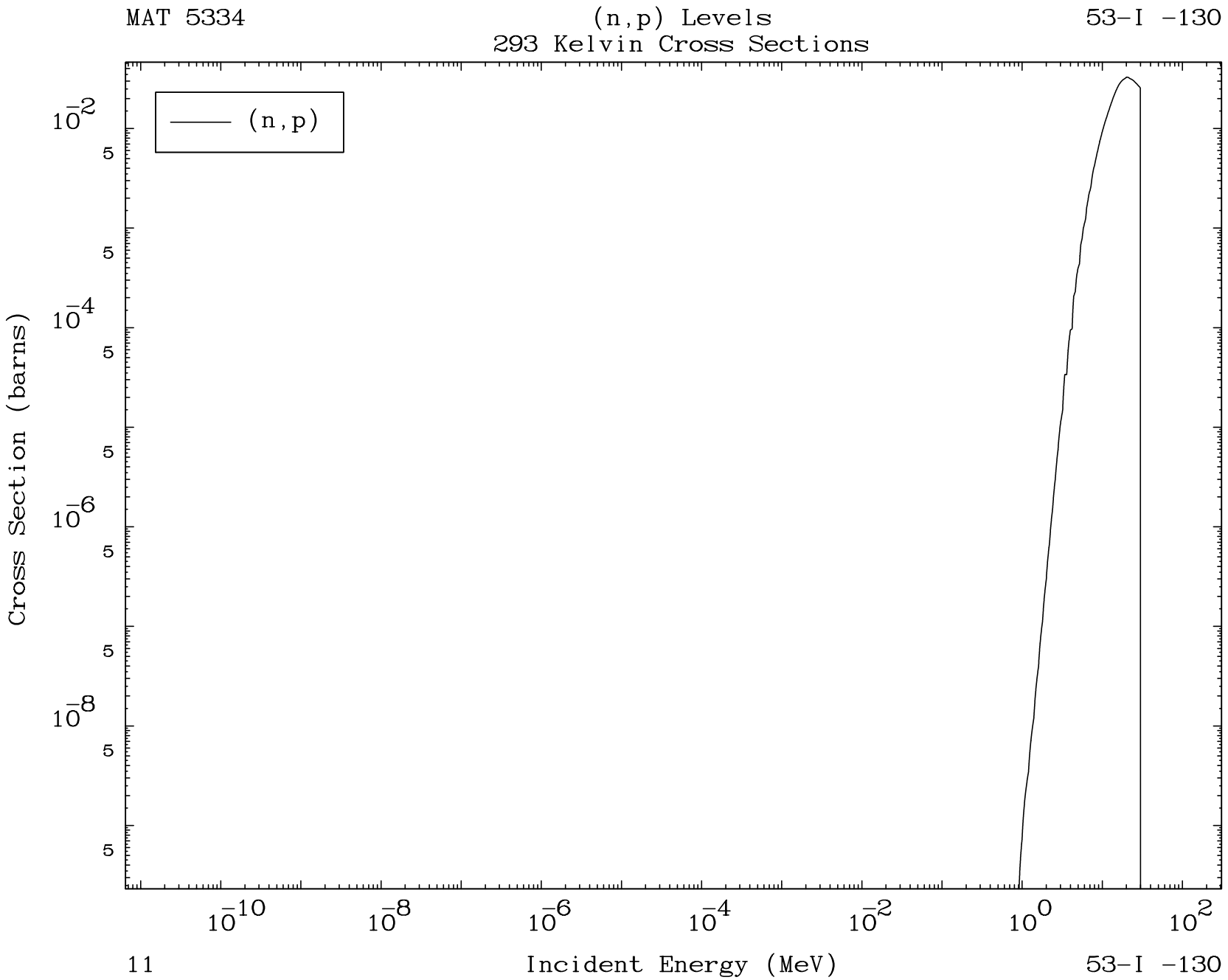

MAT 5334
Charged Particle
293 Kelvin Cross Sections
53-I -130
(n,n') α
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
6
53-I -130


MAT 5334
Particle Production
293 Kelvin Cross Sections
53-I -130
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production
Cross Section (barns)
Incident Energy (MeV)
7
53-I -130

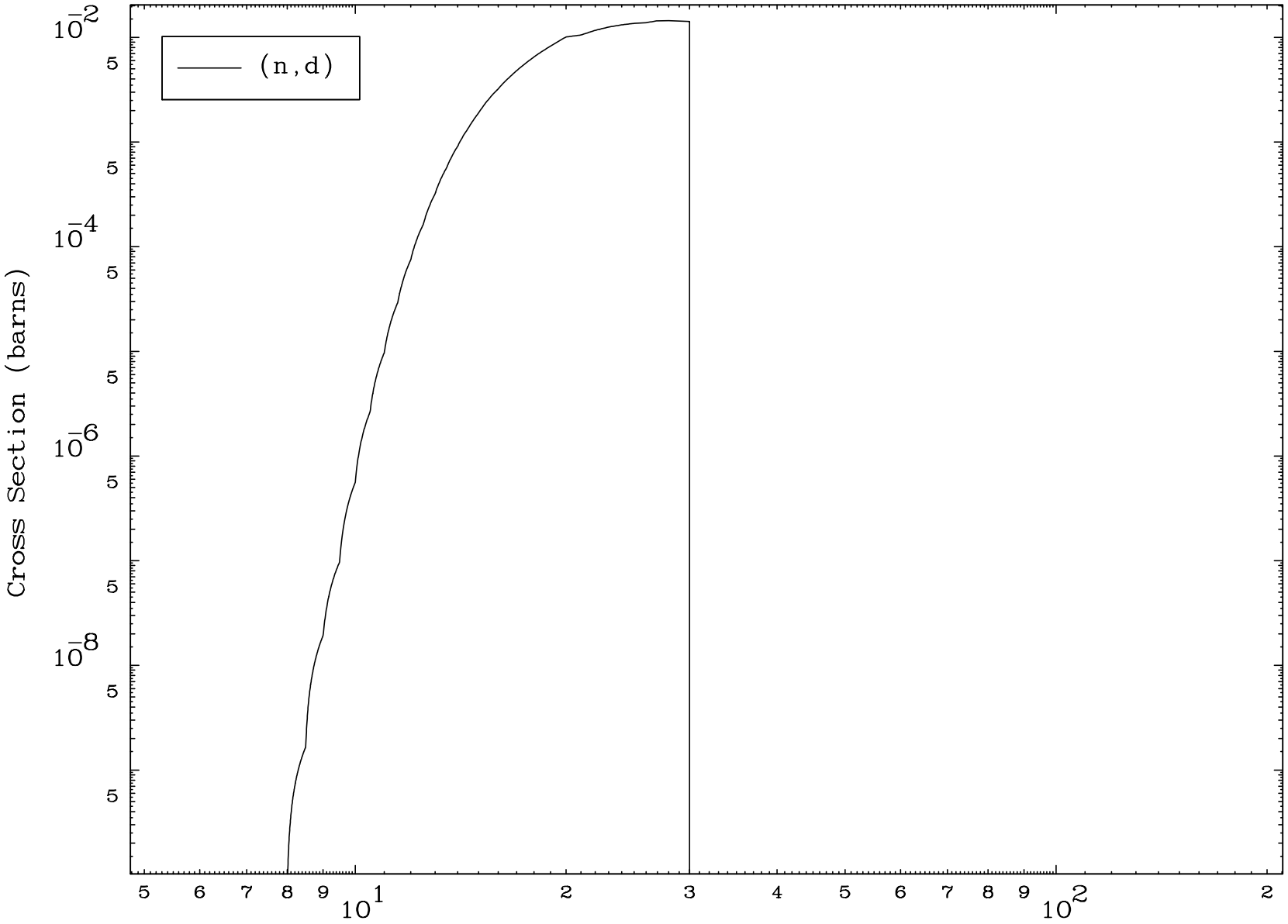

MAT 5334
(n,n') Levels
53-I -130
293 Kelvin Cross Sections
Inelastic
MT= 51 (n,n') Level
MT= 52 (n,n') Level
MT= 53 (n,n') Level
MT= 54 (n,n') Level
MT= 55 (n,n') Level
MT= 56 (n,n') Level
MT= 57 (n,n') Level
MT= 58 (n,n') Level
Cross Section (barns)
Incident Energy (MeV)
8
53-I -130


MAT 5334
(n,n') Levels
53-I -130
293 Kelvin Cross Sections
Inelastic
MT= 59 (n,n') Level
MT= 60 (n,n') Level
MT= 61 (n,n') Level
MT= 62 (n,n') Level
MT= 63 (n,n') Level
MT= 64 (n,n') Level
MT= 65 (n,n') Level
MT= 66 (n,n') Level
Cross Section (barns)
Incident Energy (MeV)
9
53-I -130

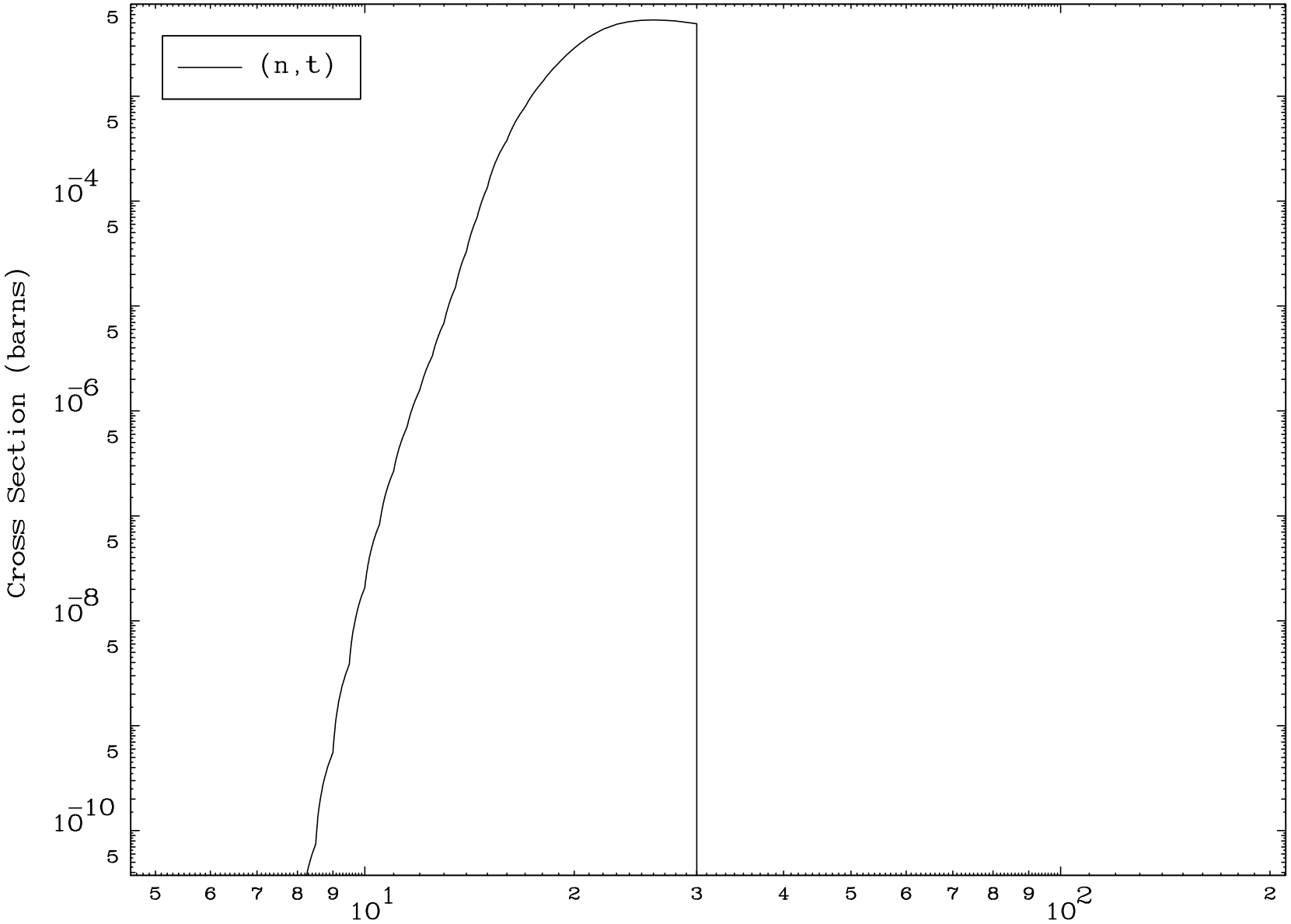

MAT 5334
(n,n') Levels
53-I -130
293 Kelvin Cross Sections
Inelastic
MT= 67 (n,n') Level
MT= 68 (n,n') Level
MT= 69 (n,n') Level
MT= 70 (n,n') Level
MT= 71 (n,n') Level
(n,n') Continuum
Cross Section (barns)
Incident Energy (MeV)
53-I -130


MAT 5334
(n,p) Levels
53-I -130
293 Kelvin Cross Sections
(n,p)
Cross Section (barns)
10-2
5
10-4
5
10-6
5
10-8
5
10-10
10-8
10-6
10-4
10-2
100
102
11
Incident Energy (MeV)
53-I -130

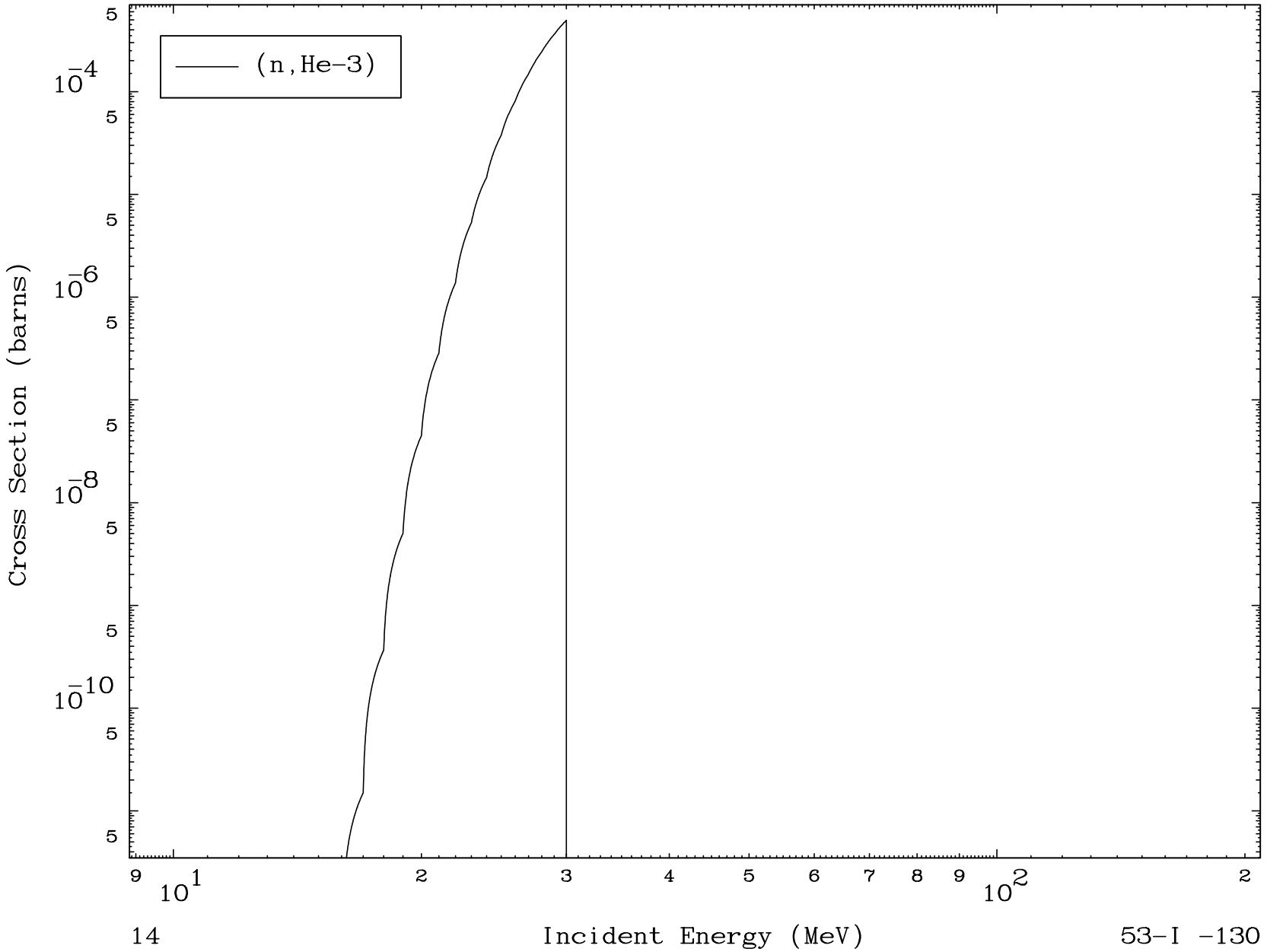
293 Kelvin Cross Sections

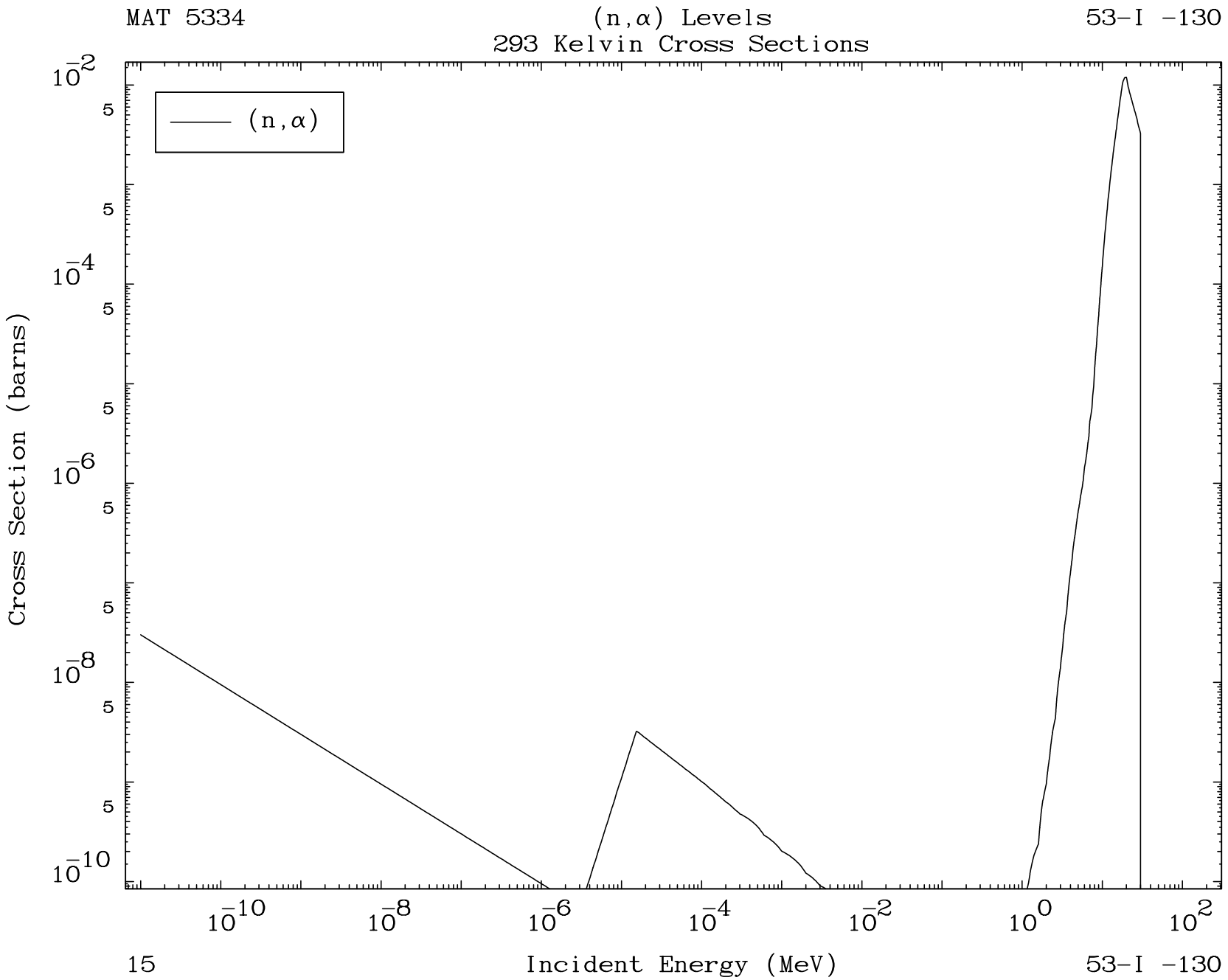


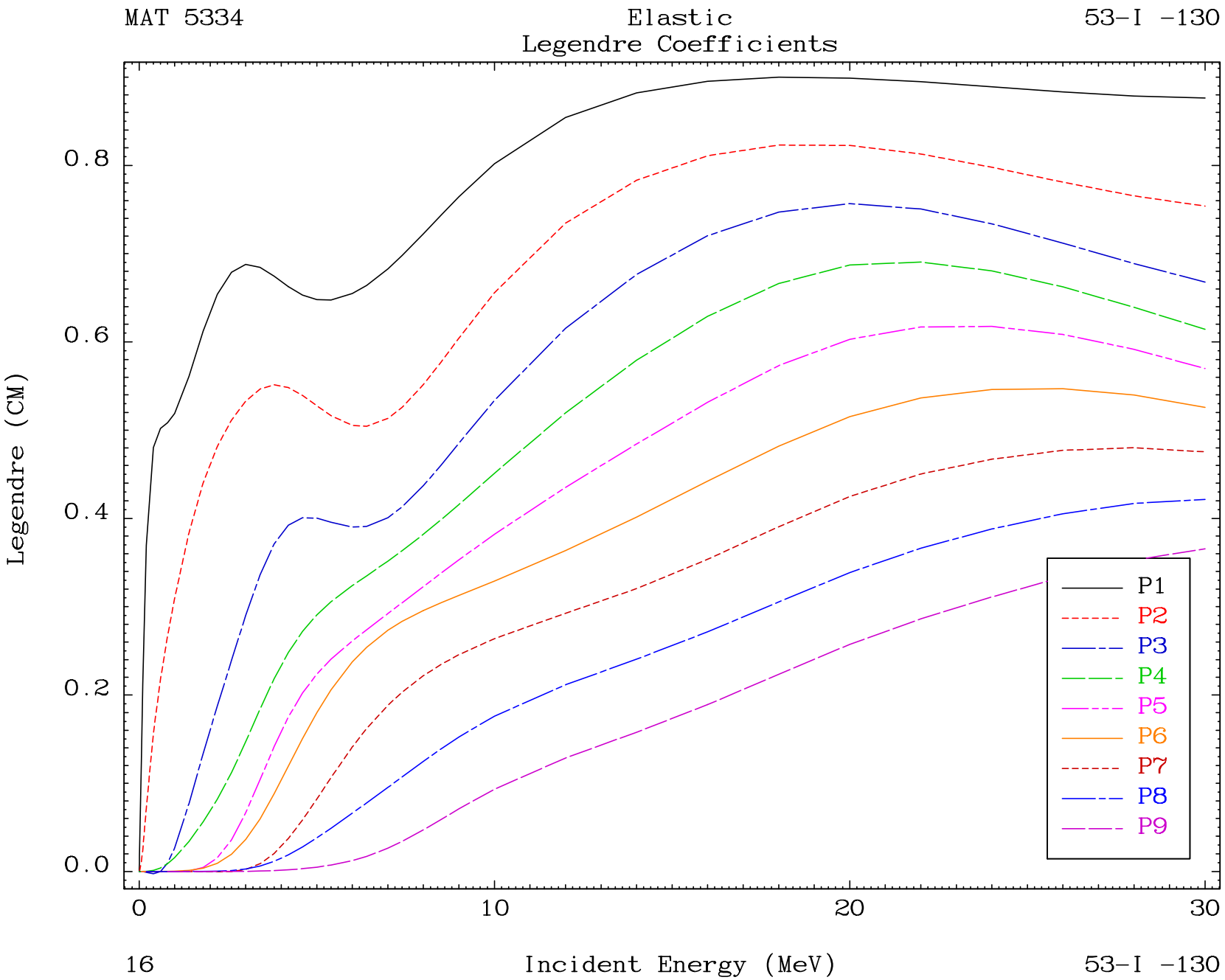
293 Kelvin Cross Sections

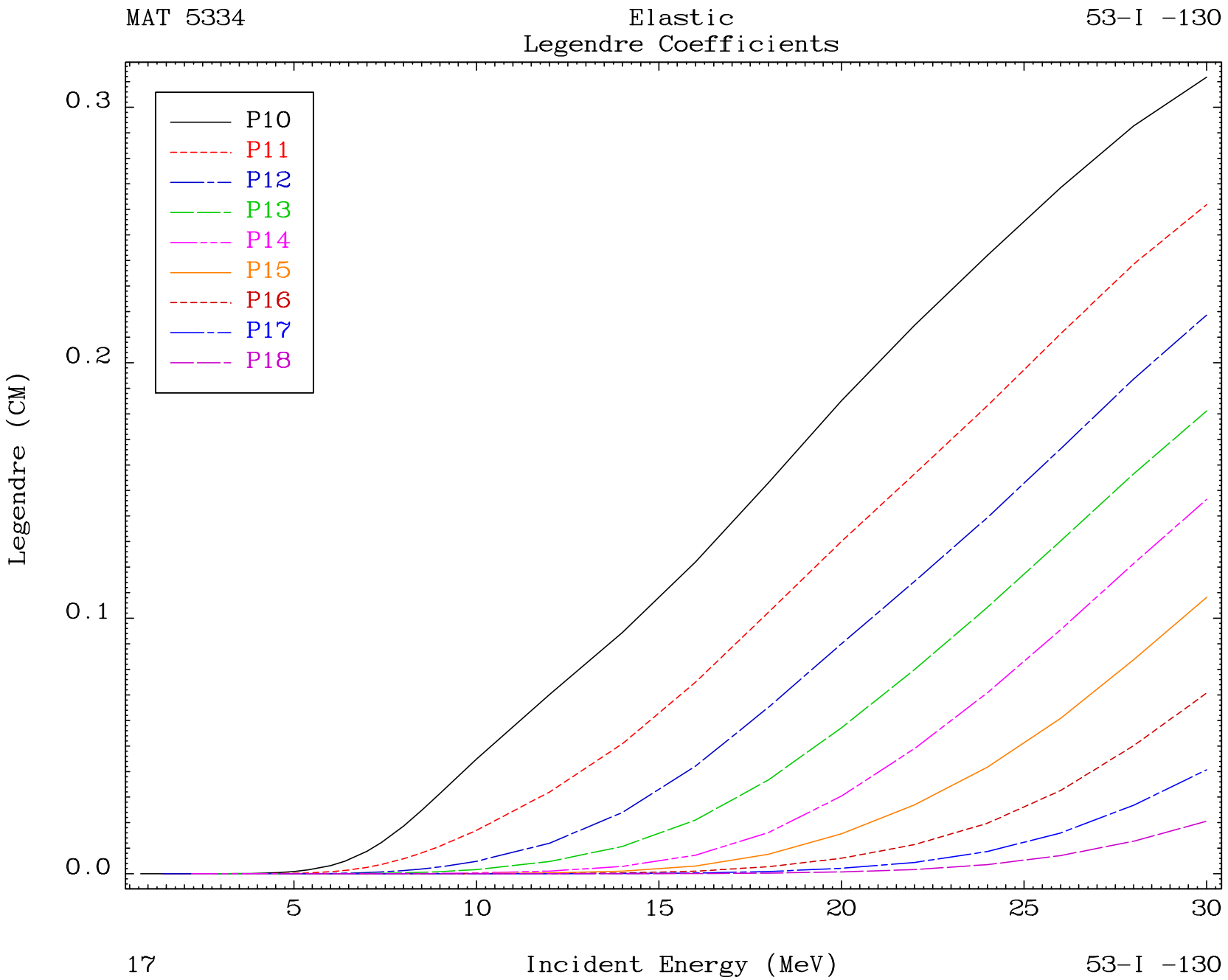


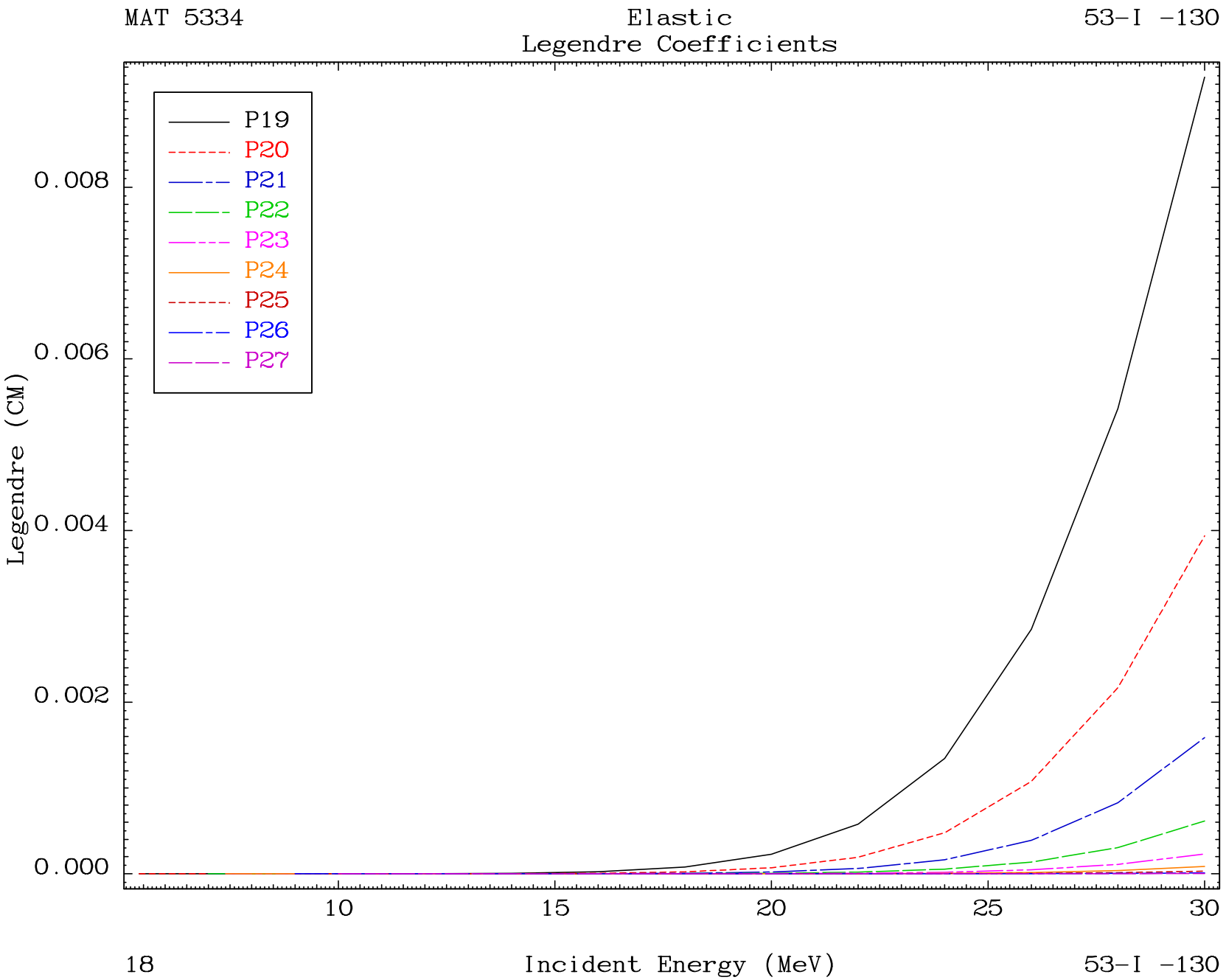
293 Kelvin Cross Sections

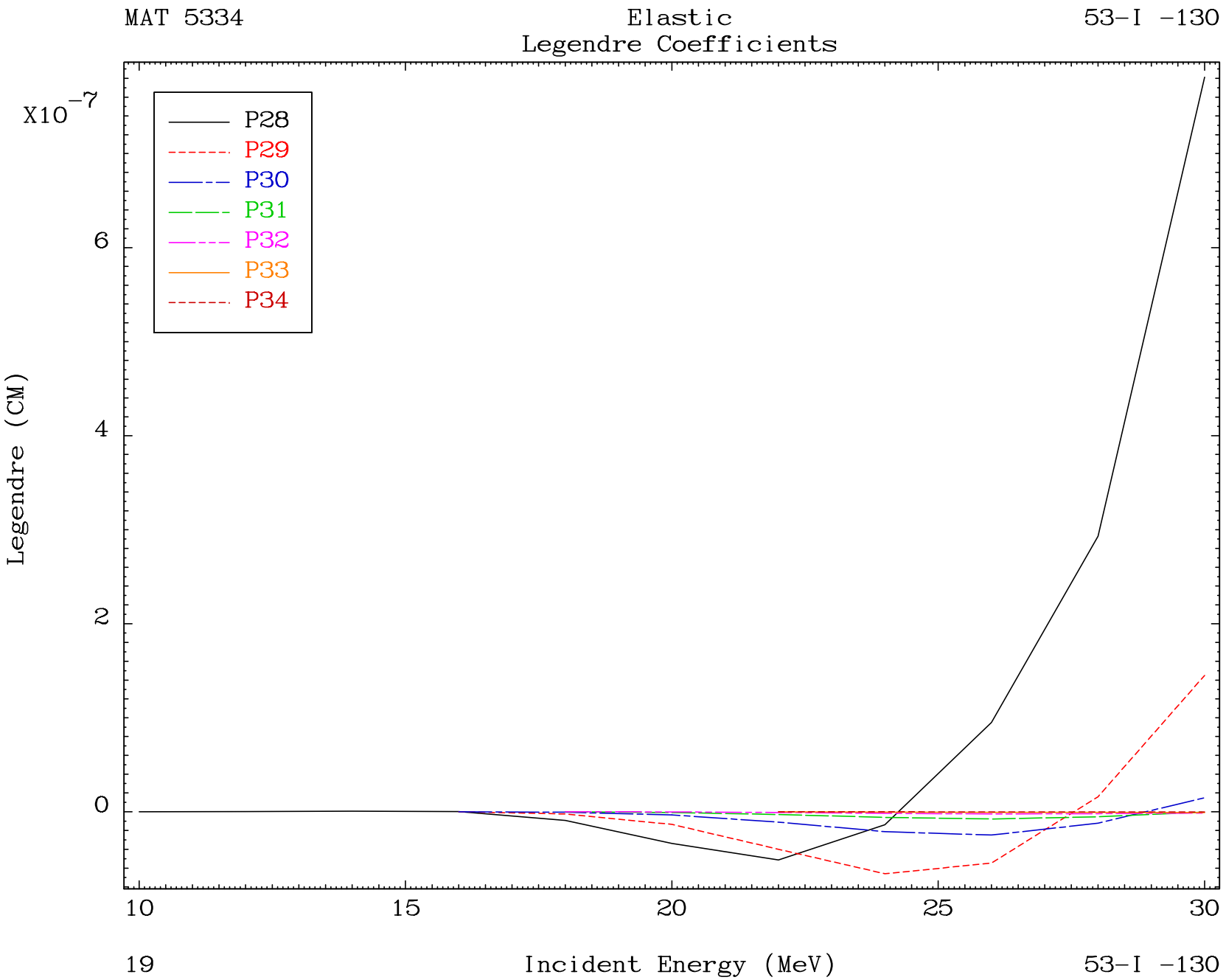


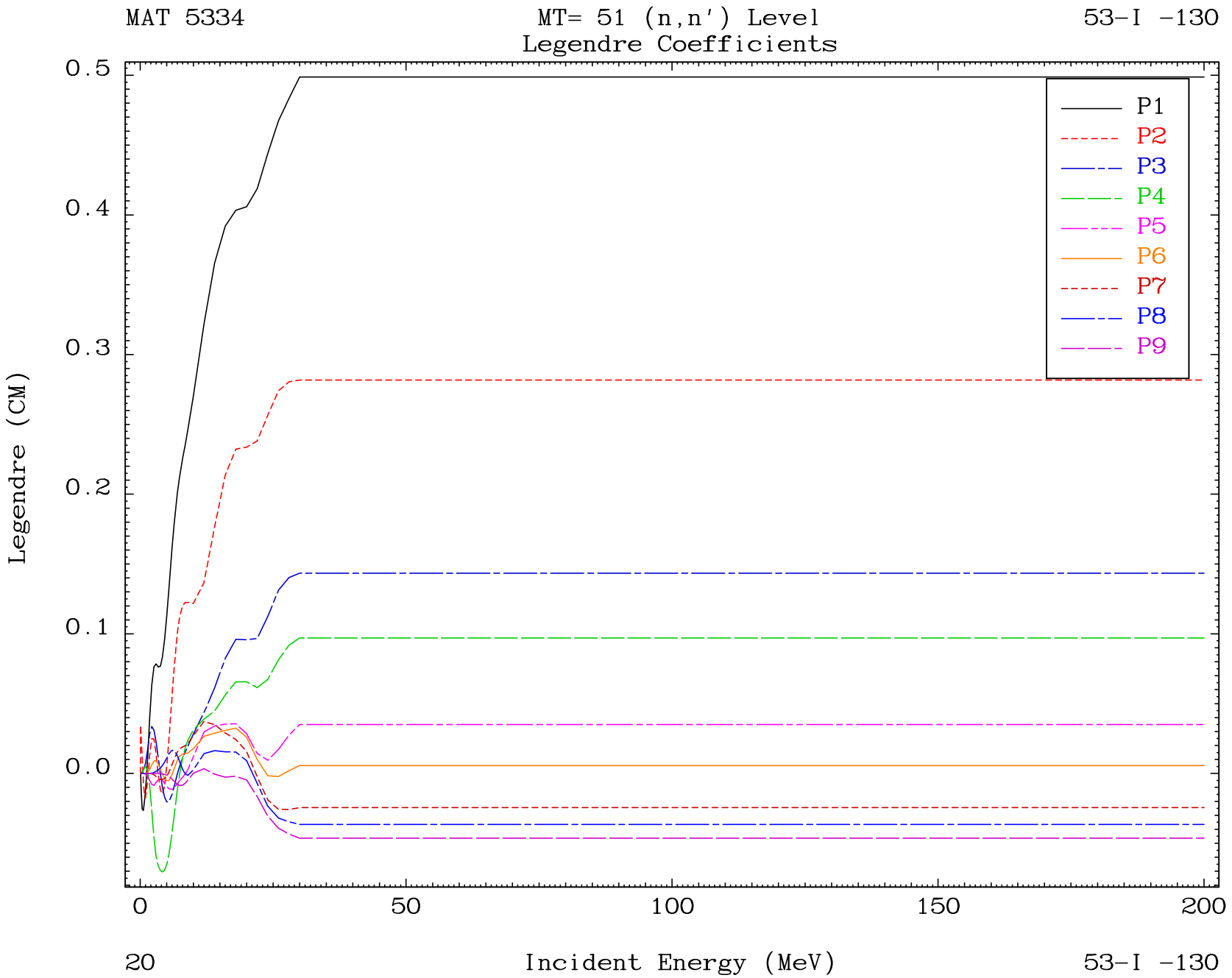

MAT 5334
(n,α) Levels
53-I -130
293 Kelvin Cross Sections
(n,α)
Cross Section (barns)
Incident Energy (MeV)
15
53-I -130

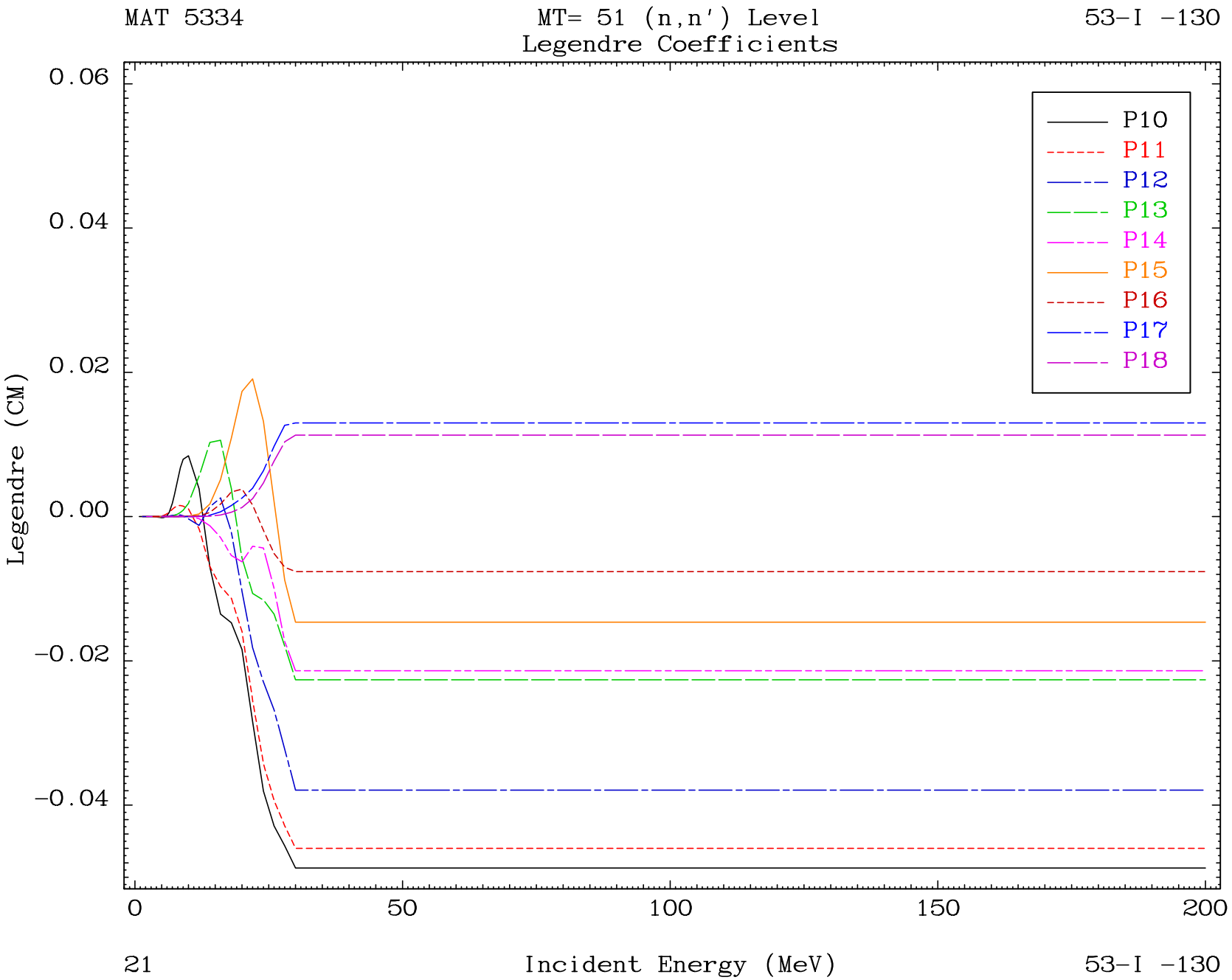

MAT 5334
Elastic
Legendre Coefficients
53-I -130
Legendre (CM)
0.0
0.2
0.4
0.6
0.8
0
10
20
30
16
Incident Energy (MeV)
53-I -130
P1
P2
P3
P4
P5
P6
P7
P8
P9

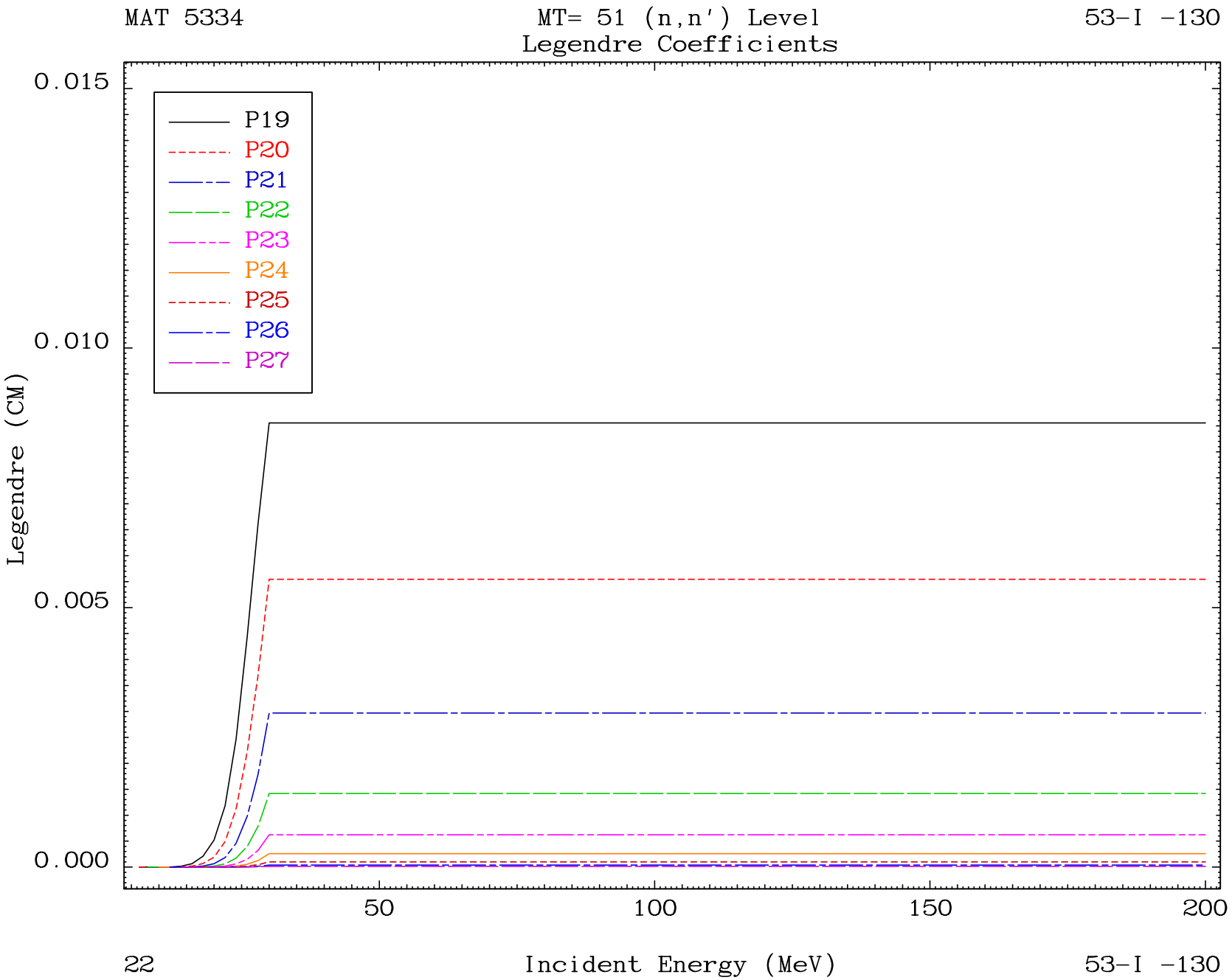

MAT 5334
Elastic
Legendre Coefficients
53-I -130
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.3
0.2
0.1
0.0
Legendre (CM)
5
10
15
20
25
30
17
Incident Energy (MeV)
53-I -130

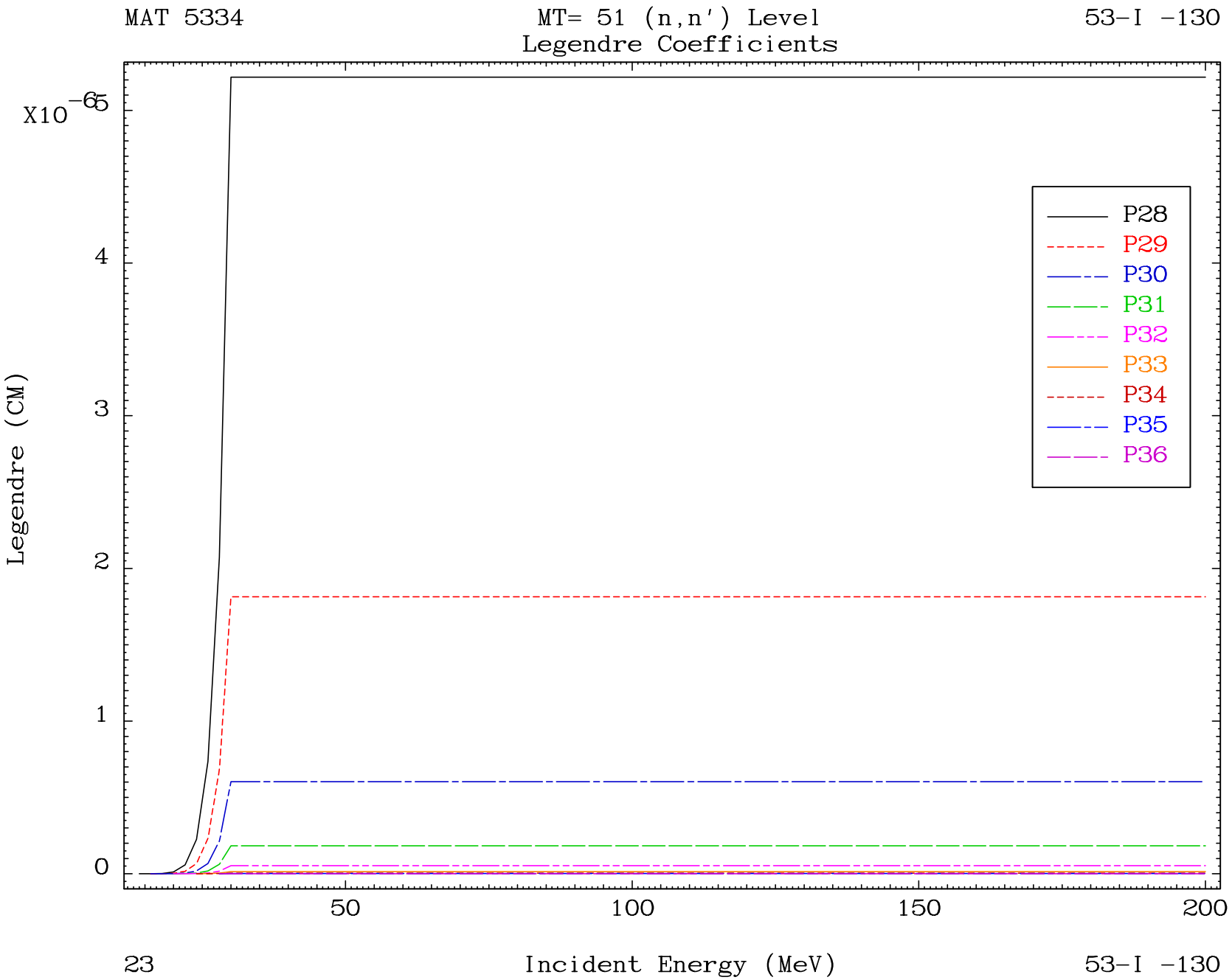

MAT 5334
Elastic
Legendre Coefficients
53-I -130
P19
P20
P21
P22
P23
P24
P25
P26
P27
0.008
0.006
0.004
0.002
0.000
Legendre (CM)
10
15
20
25
30
18
Incident Energy (MeV)
53-I -130

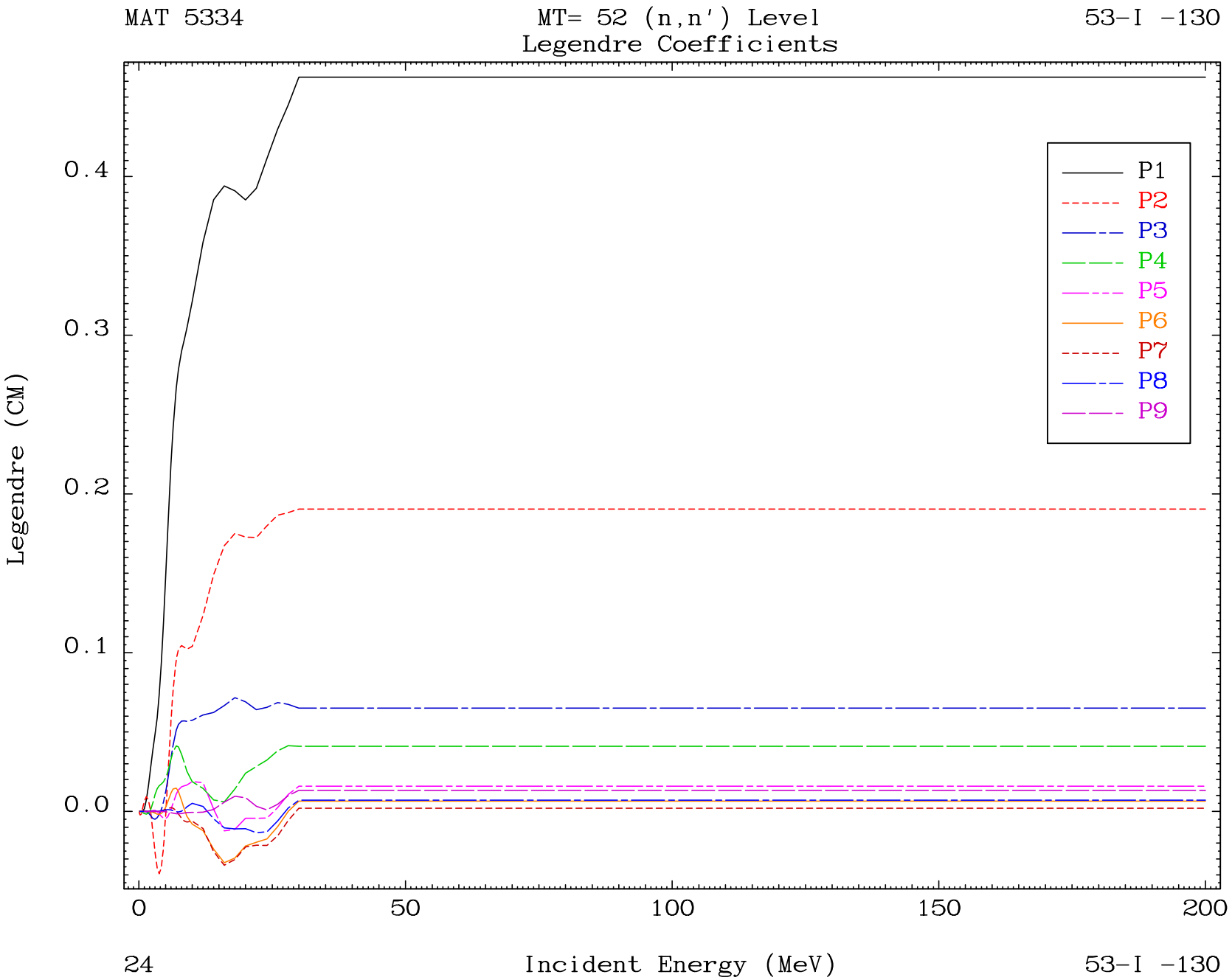

MAT 5334
Elastic
Legendre Coefficients
53-I -130
X10-7
P28
P29
P30
P31
P32
P33
P34
Legendre (CM)
6
4
2
0
10
15
20
25
30
19
Incident Energy (MeV)
53-I -130

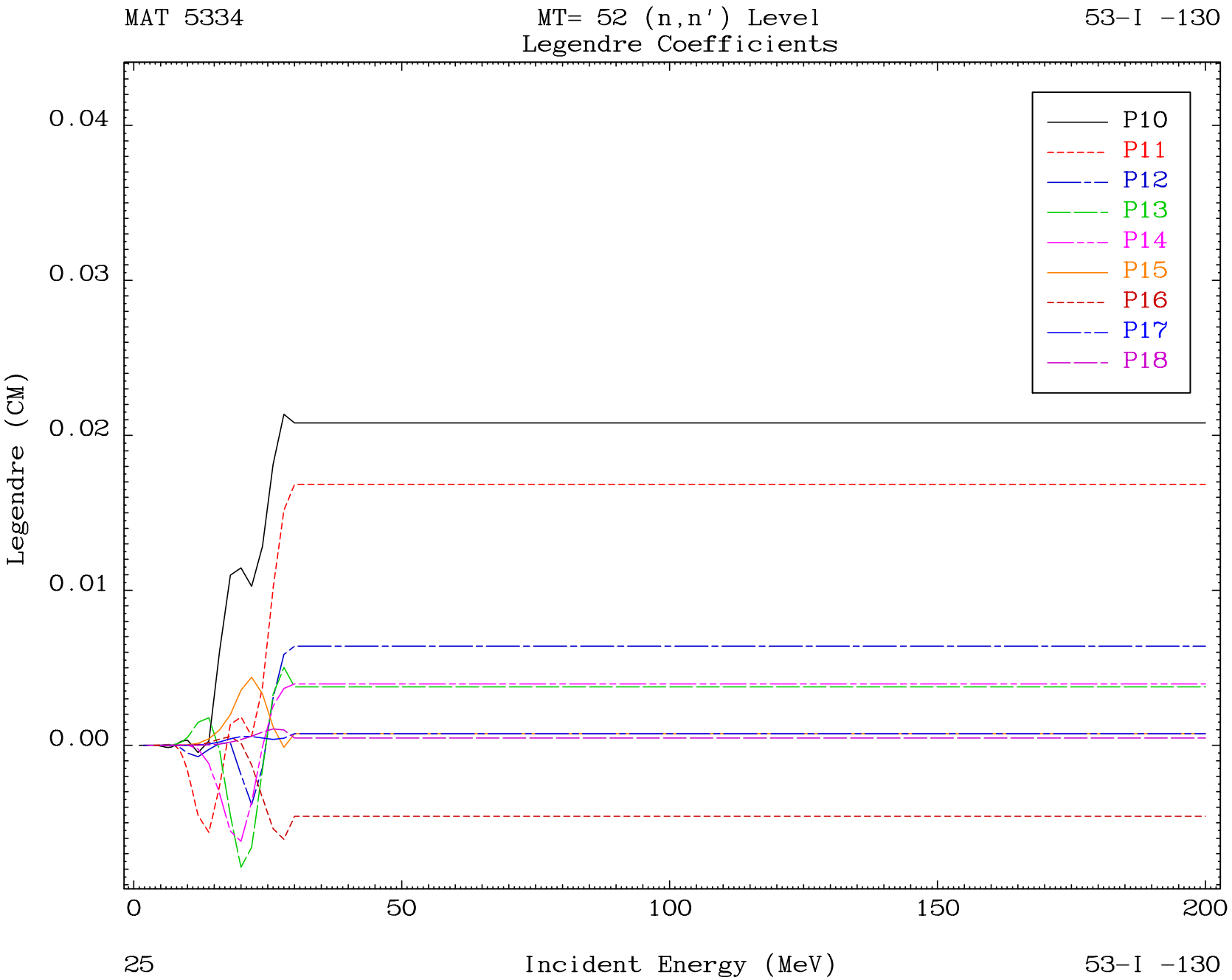

MAT 5334
MT= 51 (n,n') Level
Legendre Coefficients
53-I -130
0.5
0.4
0.3
0.2
0.1
0.0
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
20
Incident Energy (MeV)
53-I -130

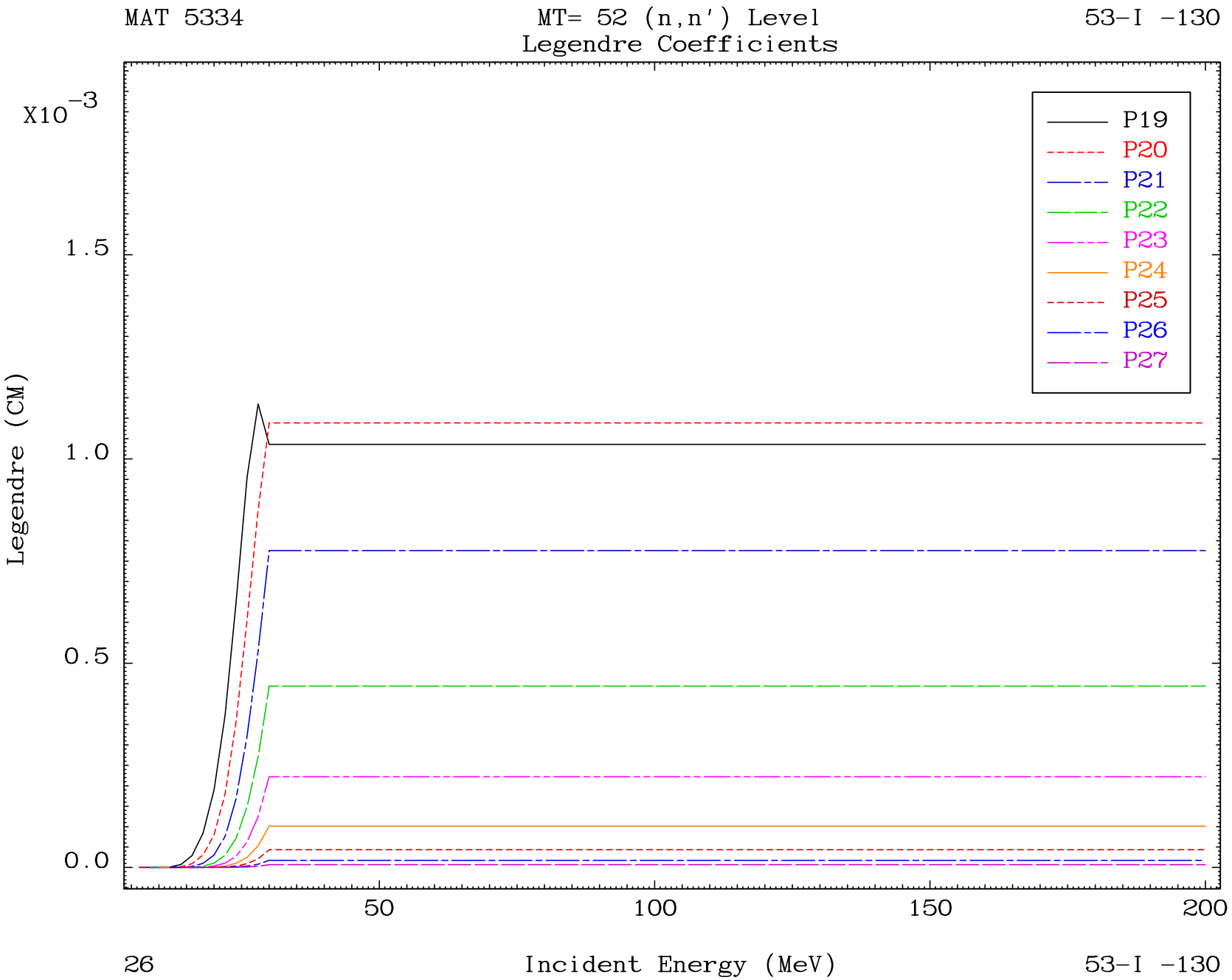

MAT 5334
MT= 51 (n,n') Level
Legendre Coefficients
53-I -130
0.06
0.04
0.02
0.00
-0.02
-0.04
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
21
Incident Energy (MeV)
53-I -130

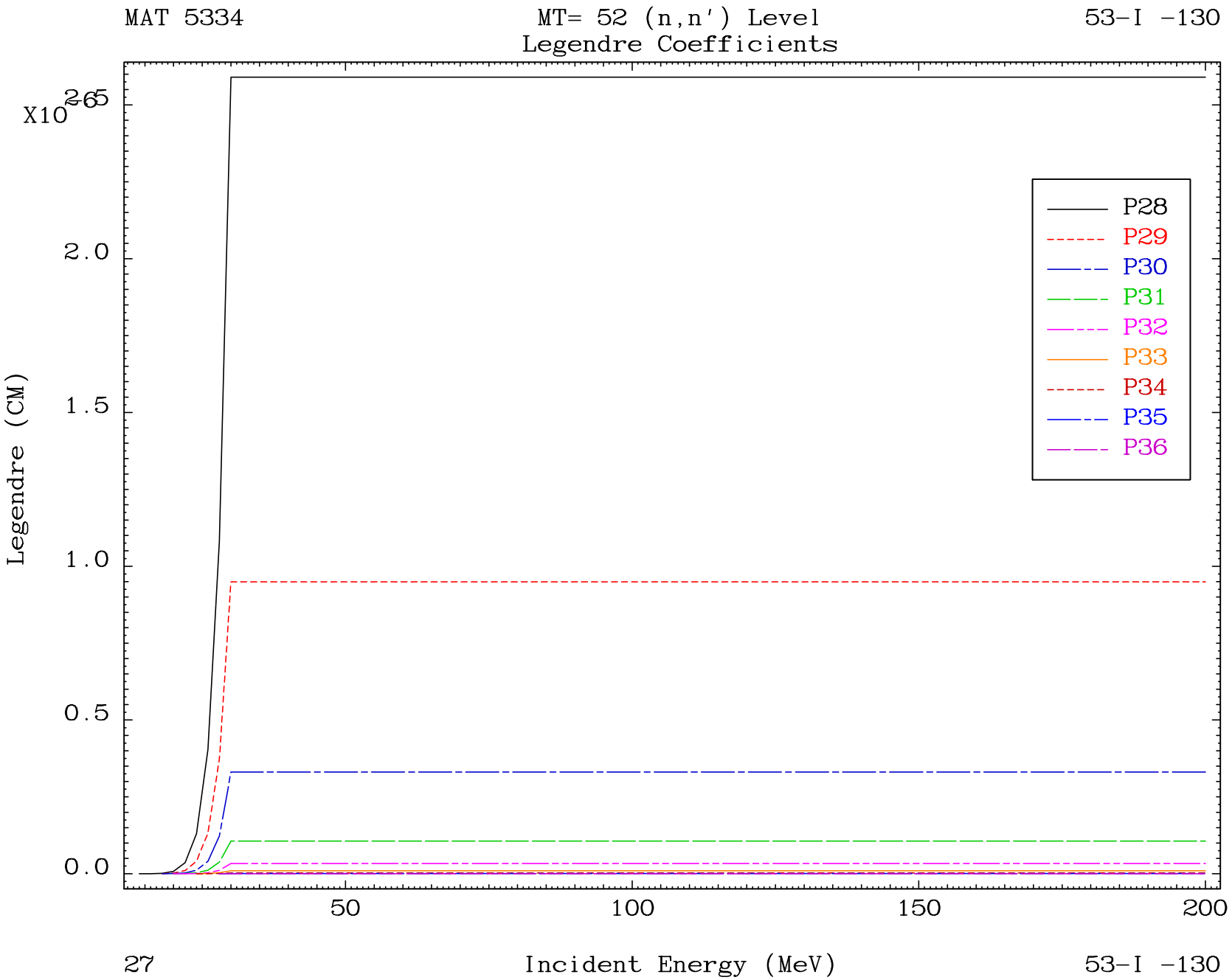

MAT 5334
MT= 51 (n,n') Level
Legendre Coefficients
53-I -130
P19
P20
P21
P22
P23
P24
P25
P26
P27
0.015
0.010
0.005
0.000
Legendre (CM)
50
100
150
200
22
Incident Energy (MeV)
53-I -130

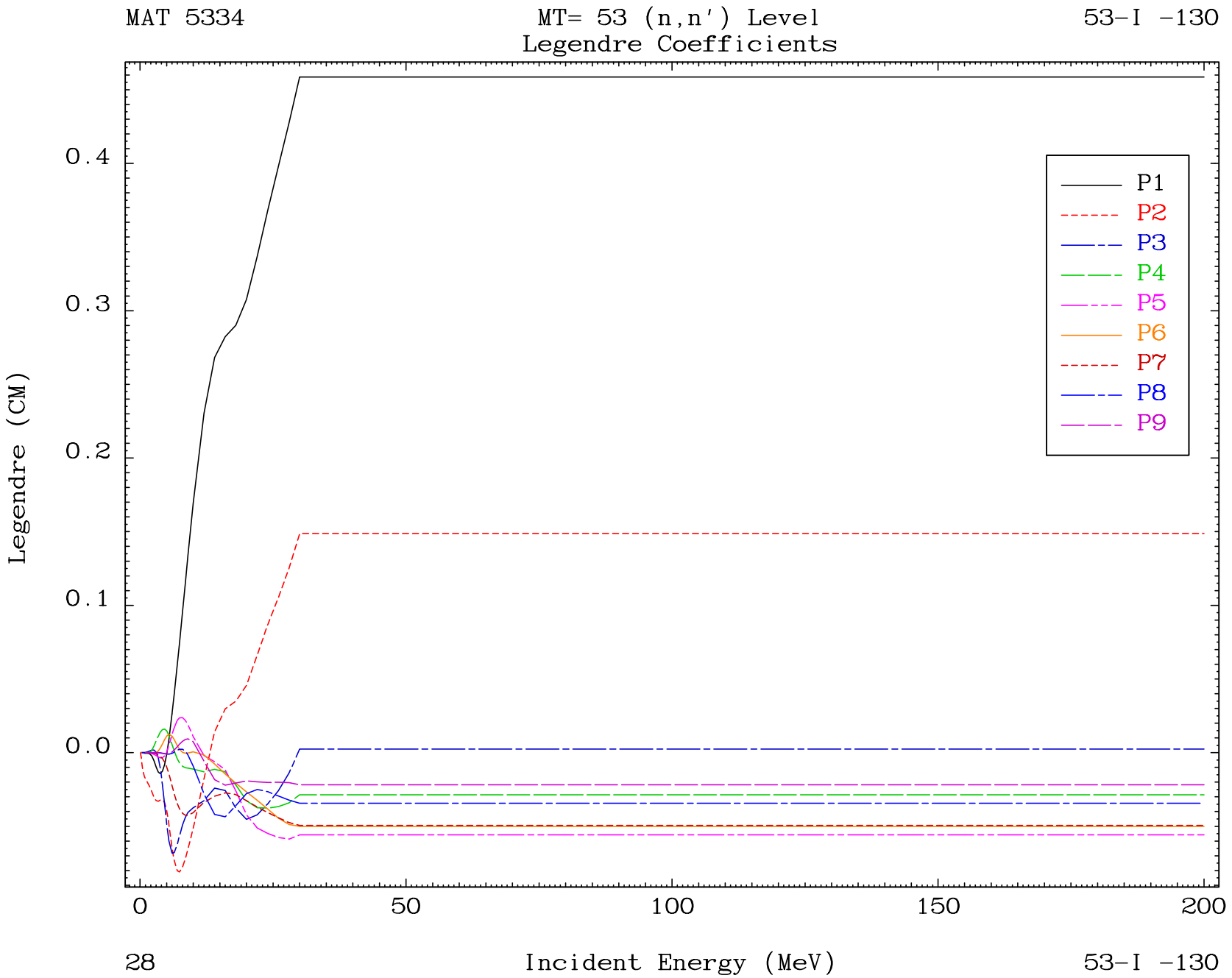

MAT 5334
MT= 51 (n,n') Level
Legendre Coefficients
53-I -130
X10 -6
5
4
3
2
1
0
Legendre (CM)
50
100
150
200
23
Incident Energy (MeV)
53-I -130
P28
P29
P30
P31
P32
P33
P34
P35
P36

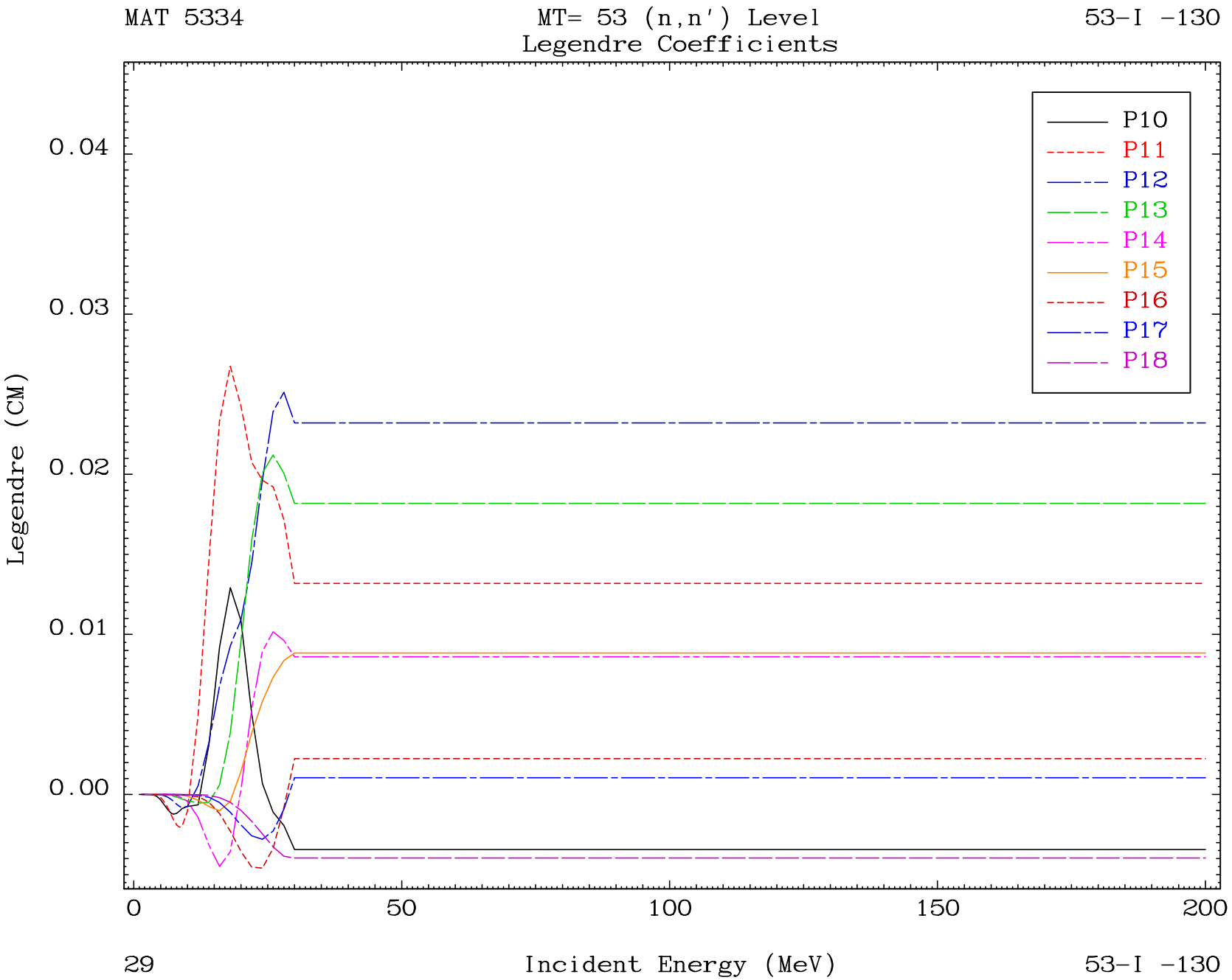

MAT 5334
MT= 52 (n,n') Level
Legendre Coefficients
53-I -130
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
24
Incident Energy (MeV)
53-I -130

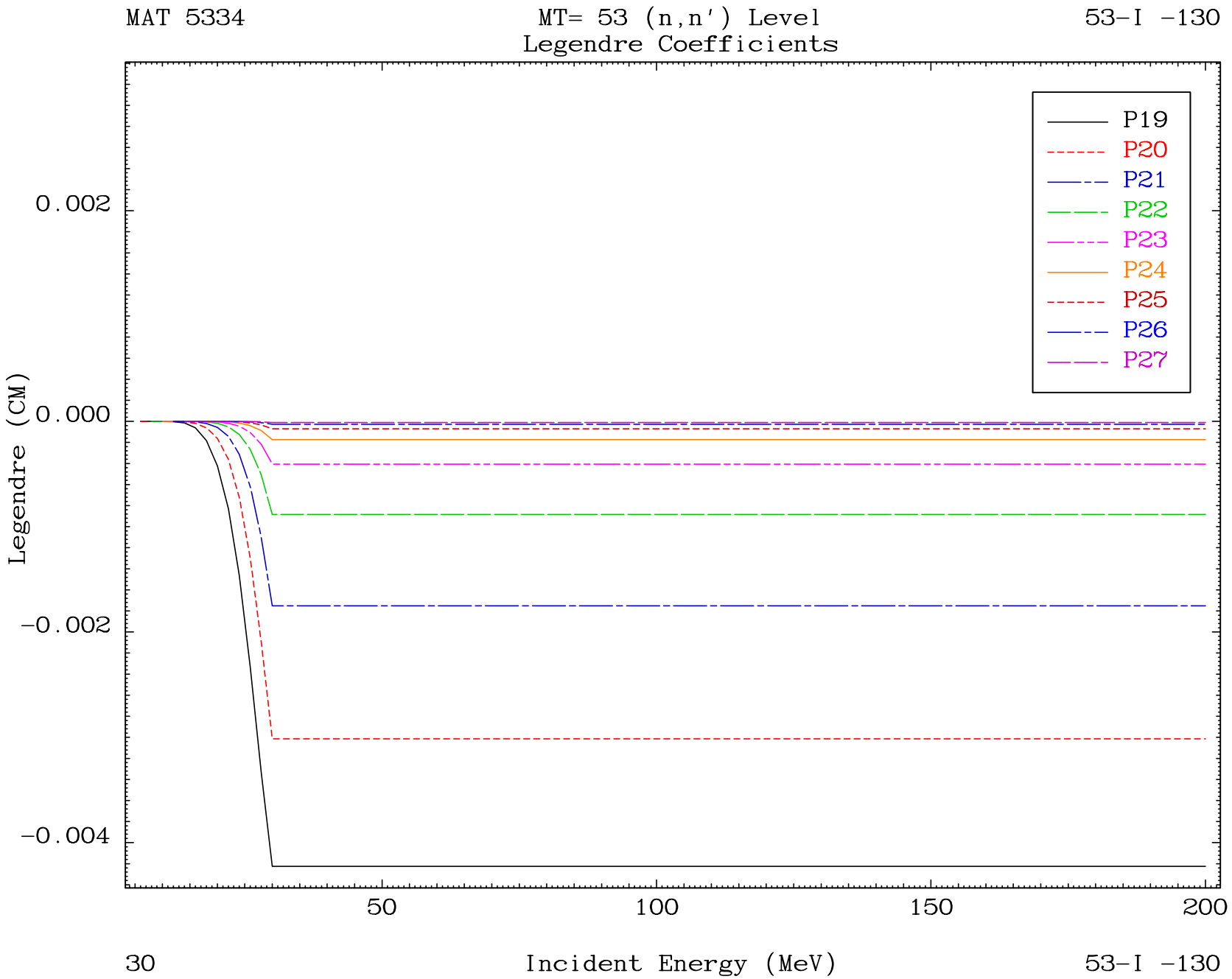

MAT 5334
MT= 52 (n,n') Level
Legendre Coefficients
53-I -130
0.04
0.03
0.02
0.01
0.00
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
25
Incident Energy (MeV)
53-I -130

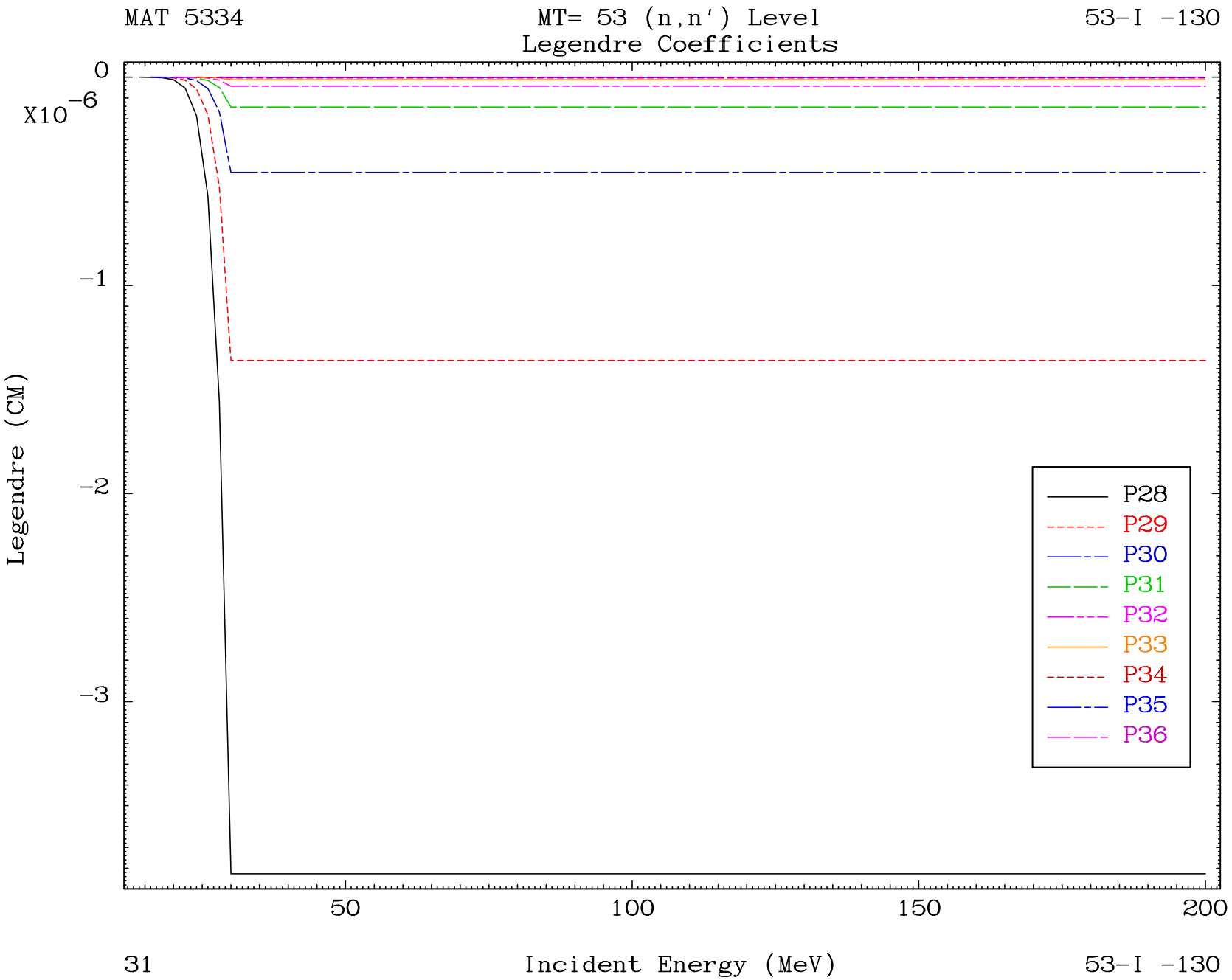

MAT 5334
MT= 52 (n,n') Level
Legendre Coefficients
53-I -130
X10-3
1.5
1.0
0.5
0.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
26
Incident Energy (MeV)
53-I -130

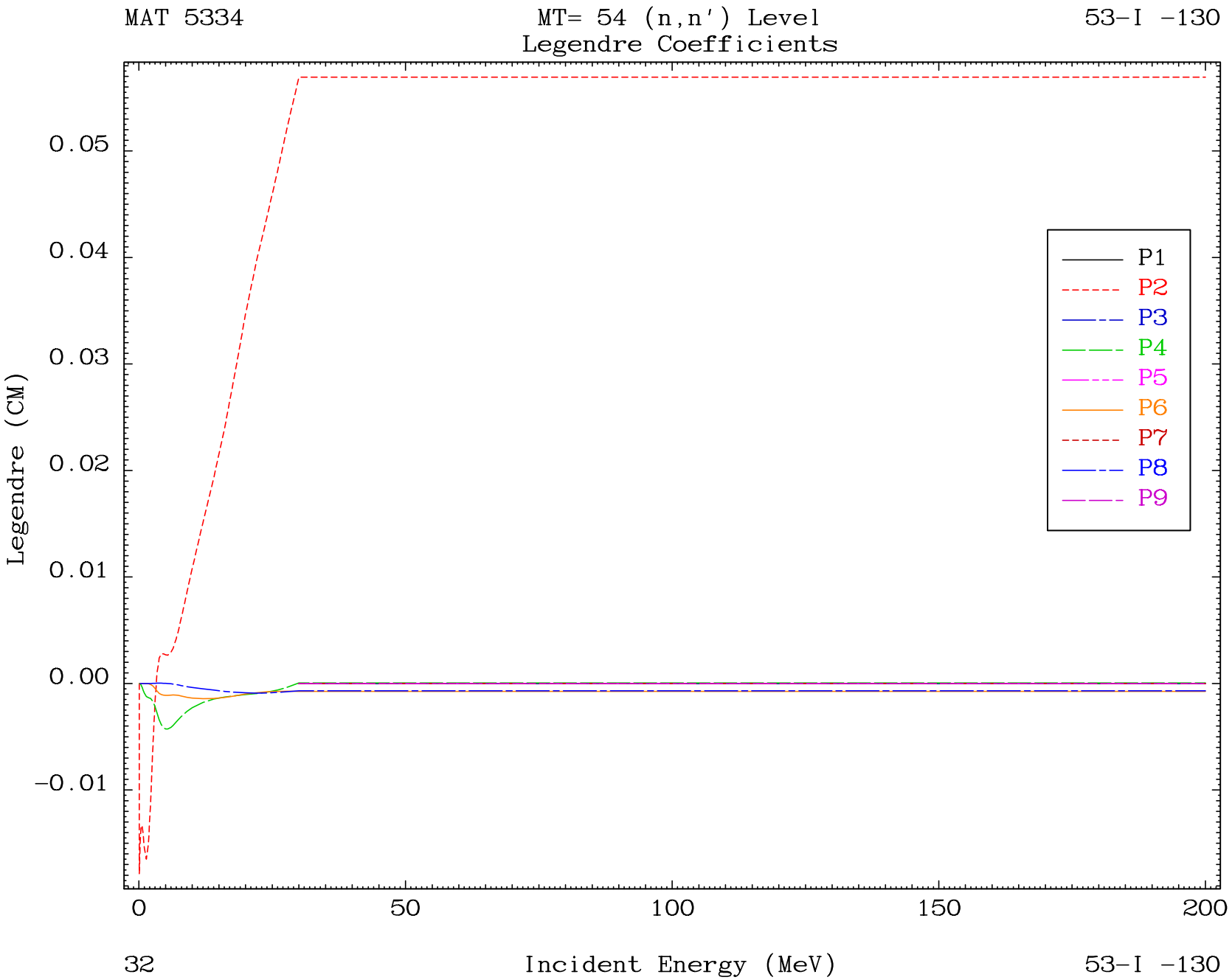

MAT 5334
MT= 52 (n,n') Level
Legendre Coefficients
53-I -130
X10-25
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
50
100
150
200
27
Incident Energy (MeV)
53-I -130
P28
P29
P30
P31
P32
P33
P34
P35
P36

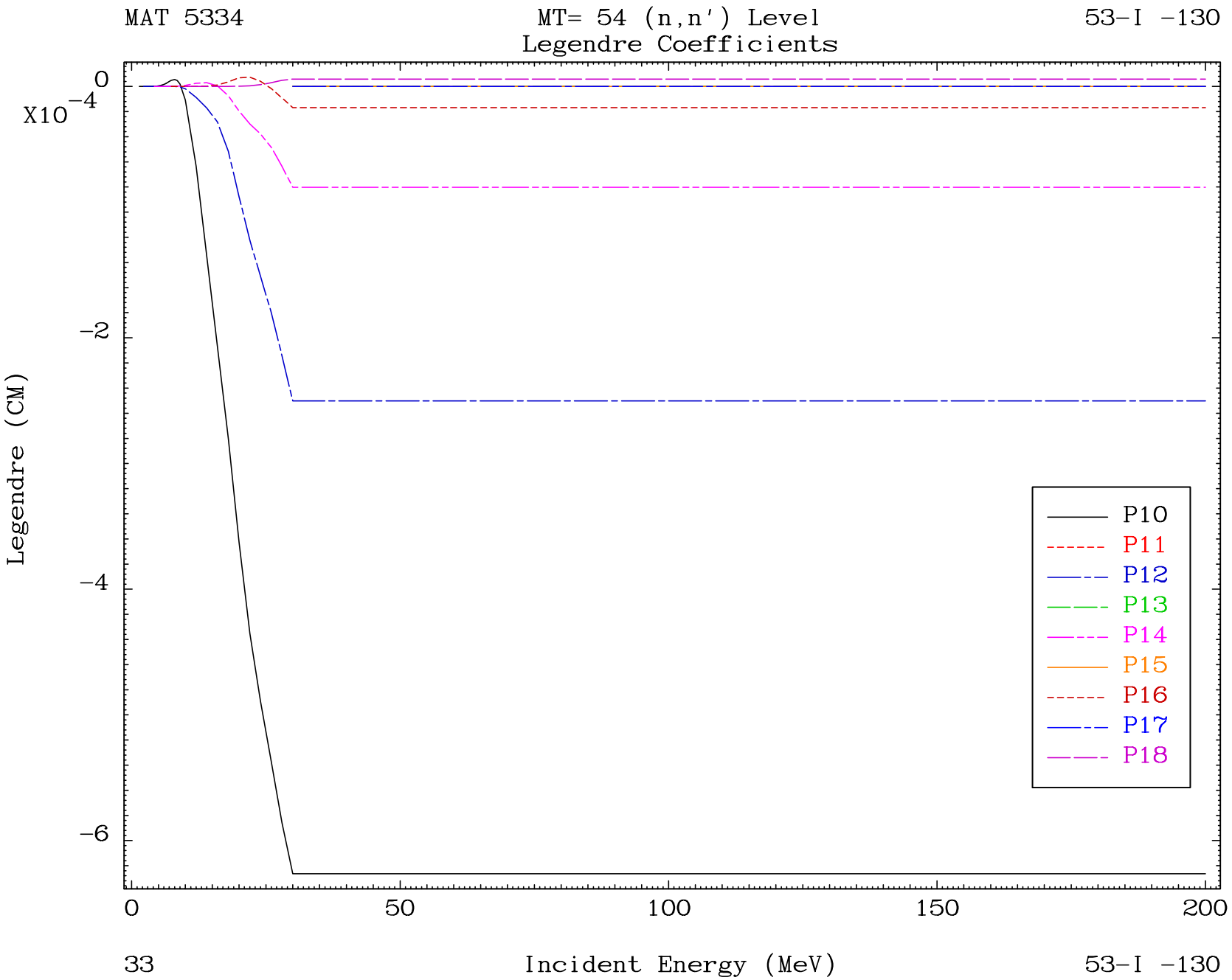

MAT 5334
MT= 53 (n,n') Level
Legendre Coefficients
53-I -130
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
28
Incident Energy (MeV)
53-I -130

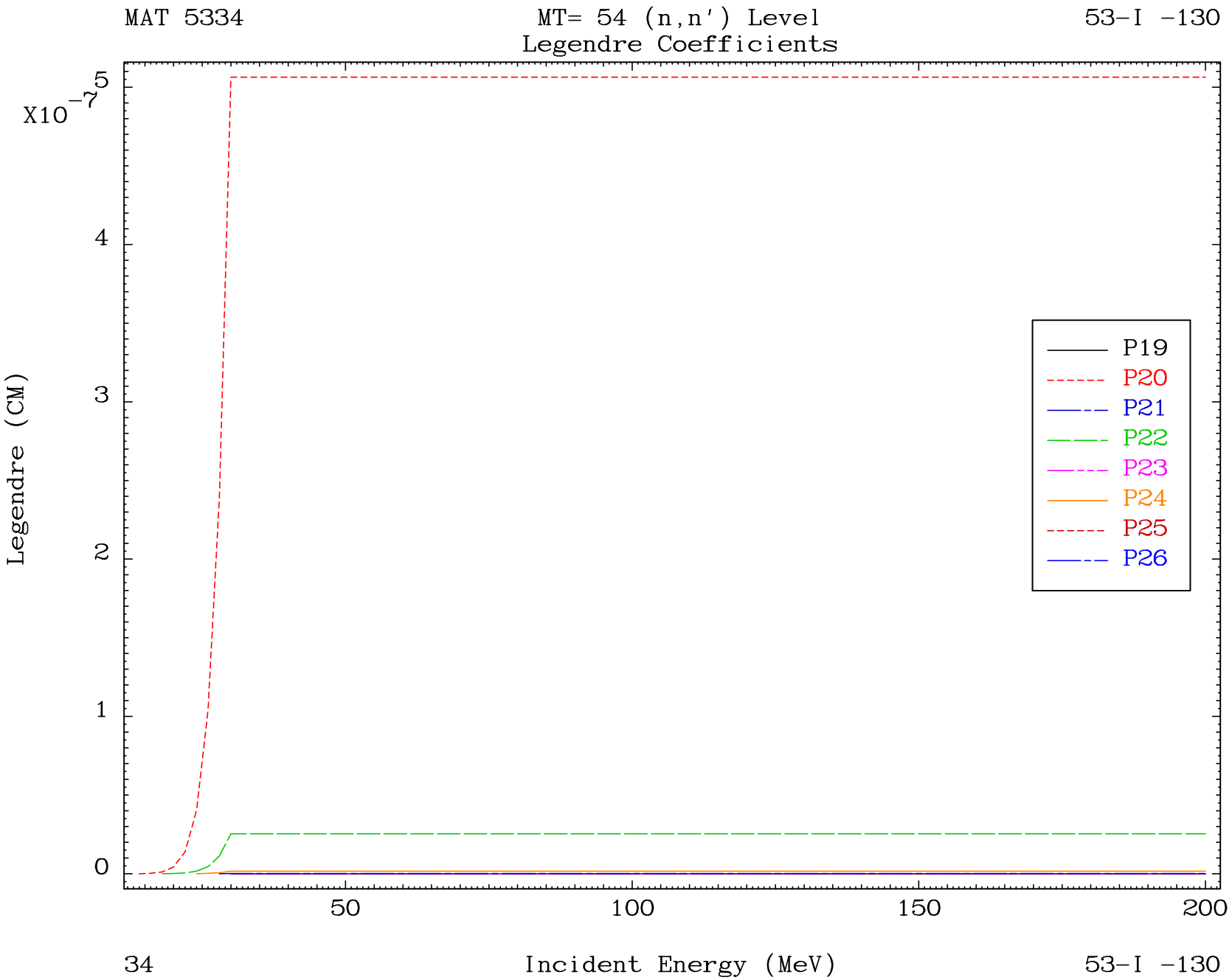

MAT 5334
MT= 53 (n,n') Level
Legendre Coefficients
53-I -130
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.04
0.03
0.02
0.01
0.00
Legendre (CM)
0
50
100
150
200
29
Incident Energy (MeV)
53-I -130

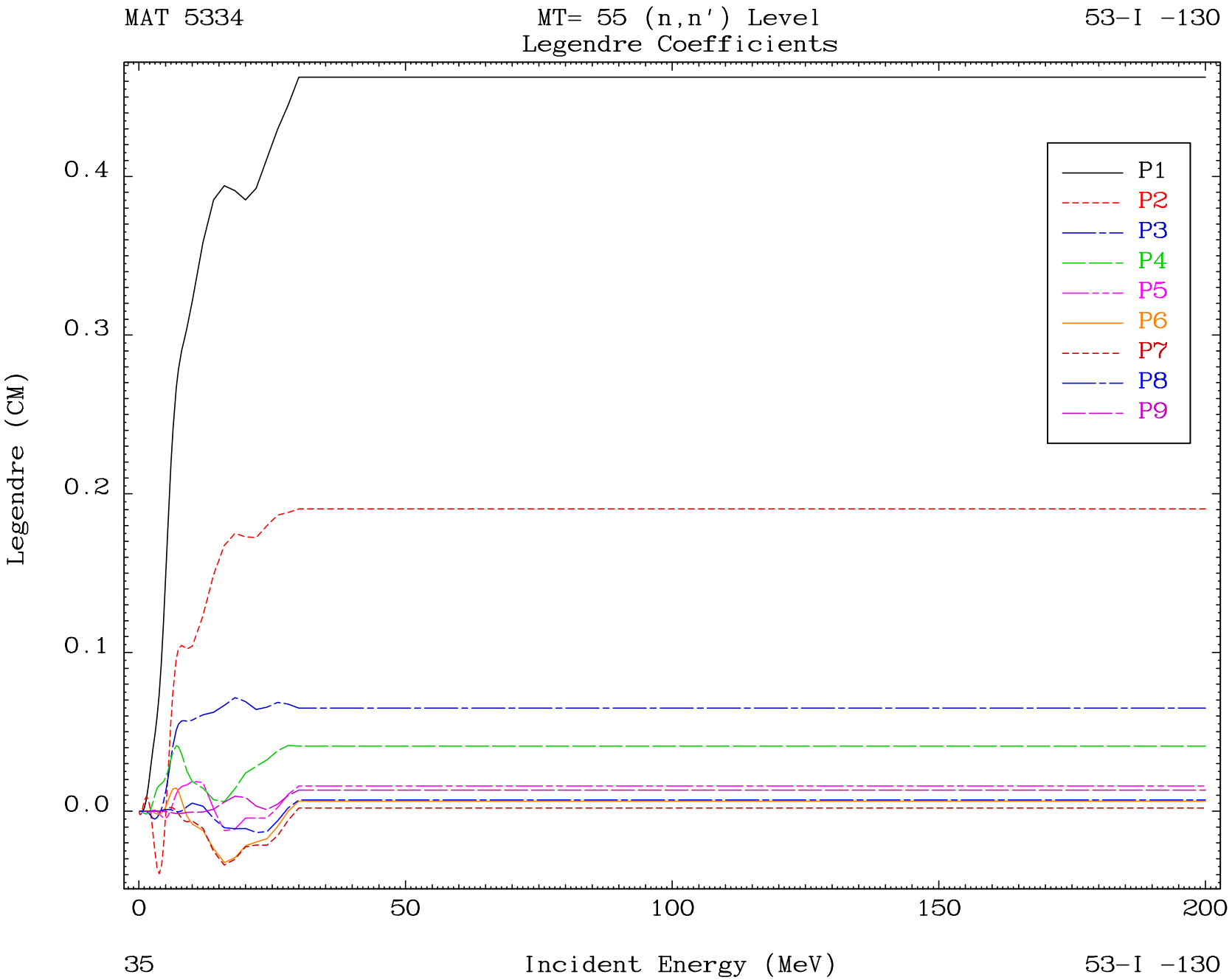

MAT 5334
MT= 53 (n,n') Level
Legendre Coefficients
53-I -130
P19
P20
P21
P22
P23
P24
P25
P26
P27
0.002
0.000
-0.002
-0.004
Legendre (CM)
30
50
100
150
200
Incident Energy (MeV)
53-I -130

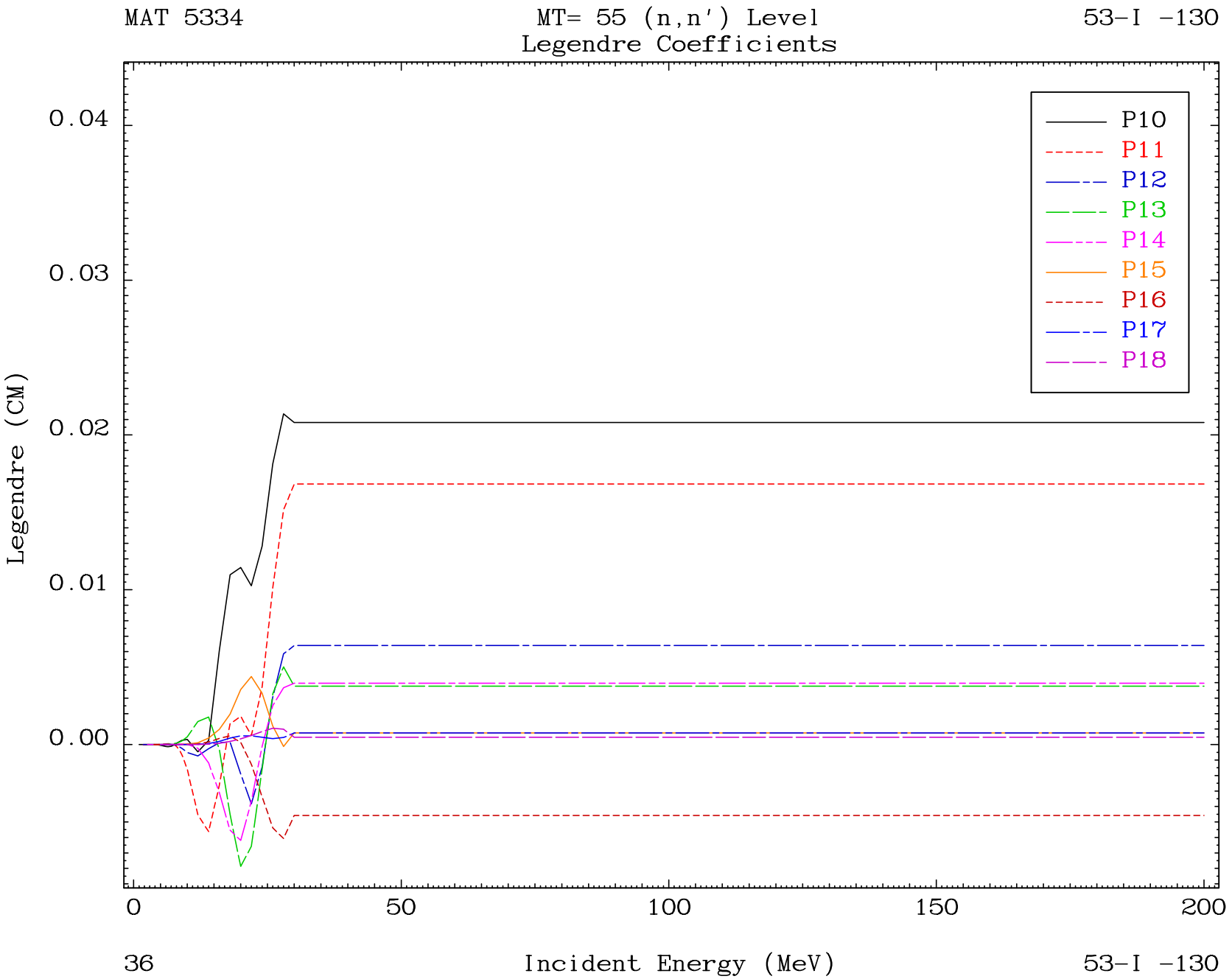

MAT 5334
MT= 53 (n,n') Level
Legendre Coefficients
53-I -130
0
X10^-6
-1
-2
-3
Legendre (CM)
50
100
150
200
31
Incident Energy (MeV)
53-I -130
P28
P29
P30
P31
P32
P33
P34
P35
P36

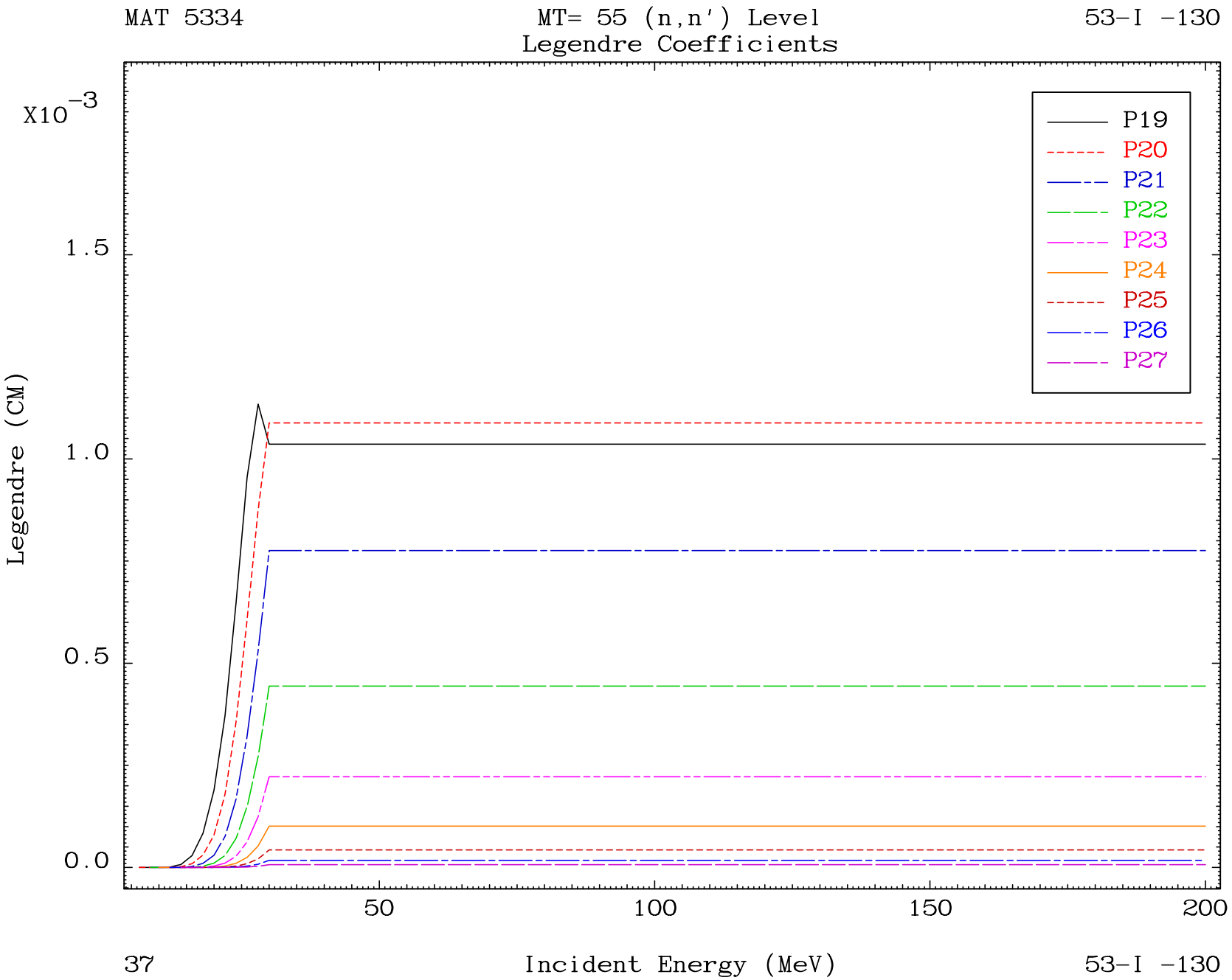

MAT 5334
MT= 54 (n,n') Level
Legendre Coefficients
53-I -130
0.05
0.04
0.03
0.02
0.01
0.00
-0.01
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
32
Incident Energy (MeV)
53-I -130

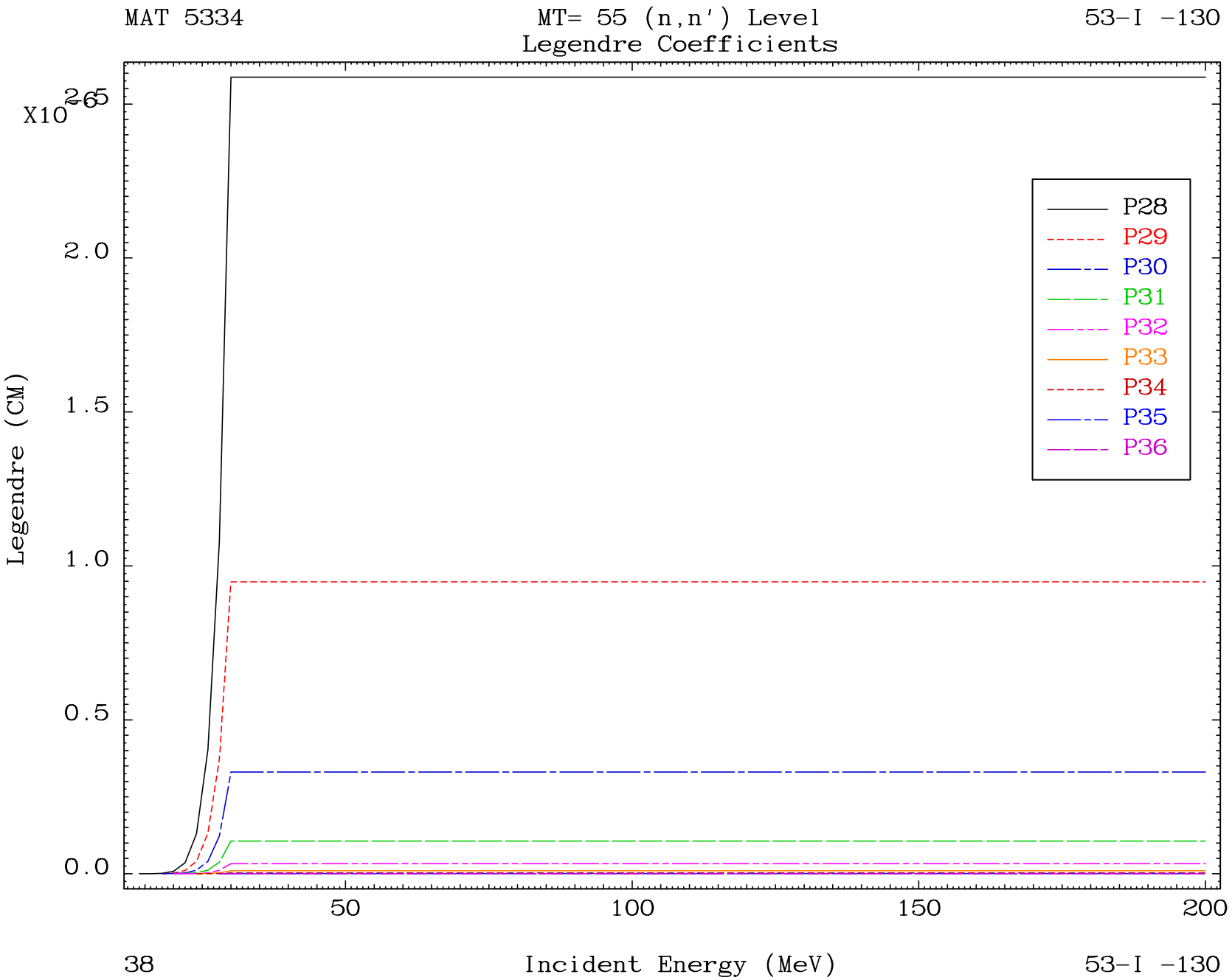

MAT 5334
MT= 54 (n,n') Level
Legendre Coefficients
53-I -130
X10^-4
0
-2
-4
-6
Legendre (CM)
0
50
100
150
200
33
Incident Energy (MeV)
53-I -130
P10
P11
P12
P13
P14
P15
P16
P17
P18

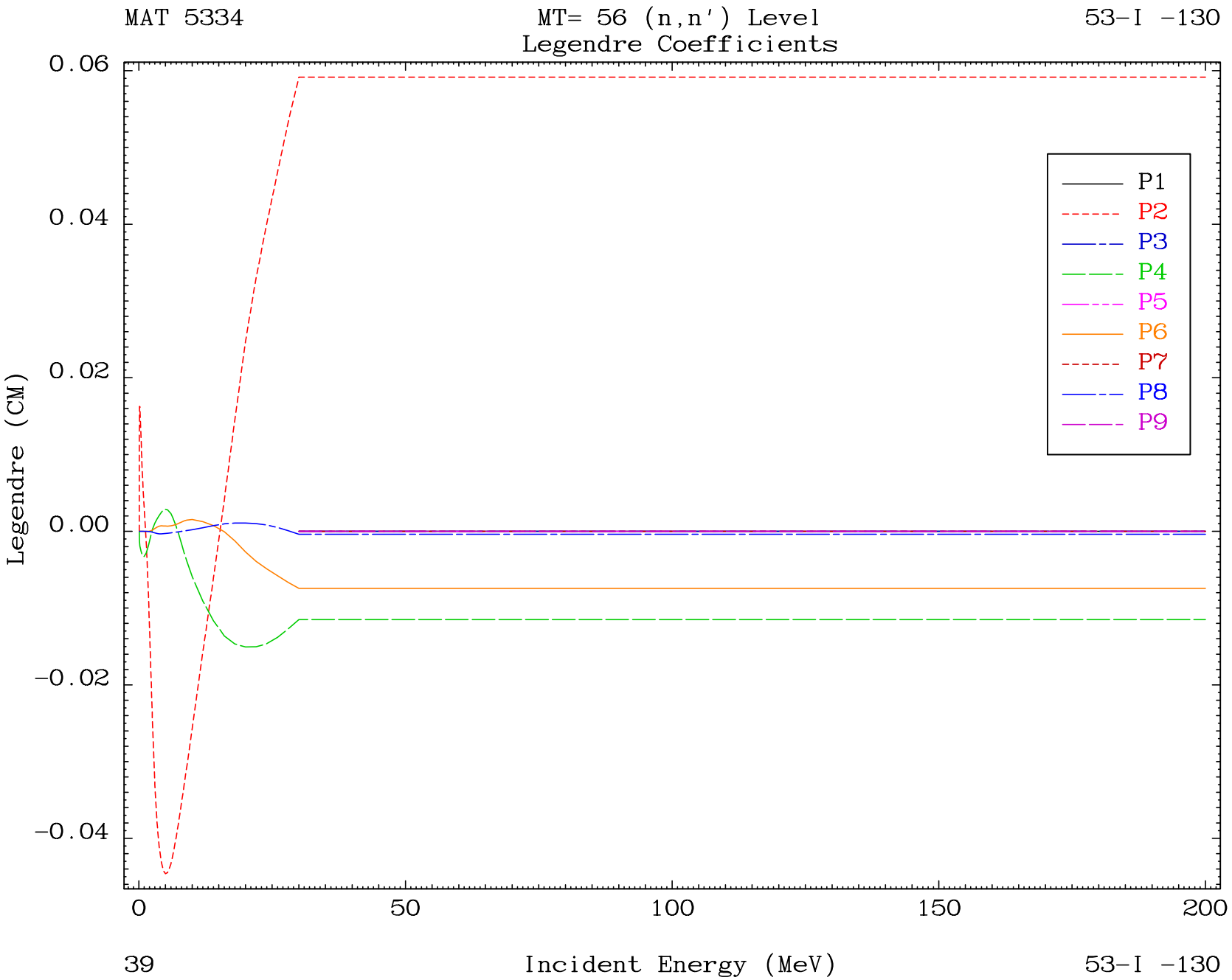

MAT 5334
MT= 54 (n,n') Level
Legendre Coefficients
53-I -130
X10-2
5
4
3
2
1
0
Legendre (CM)
50
100
150
200
34
Incident Energy (MeV)
53-I -130
P19
P20
P21
P22
P23
P24
P25
P26

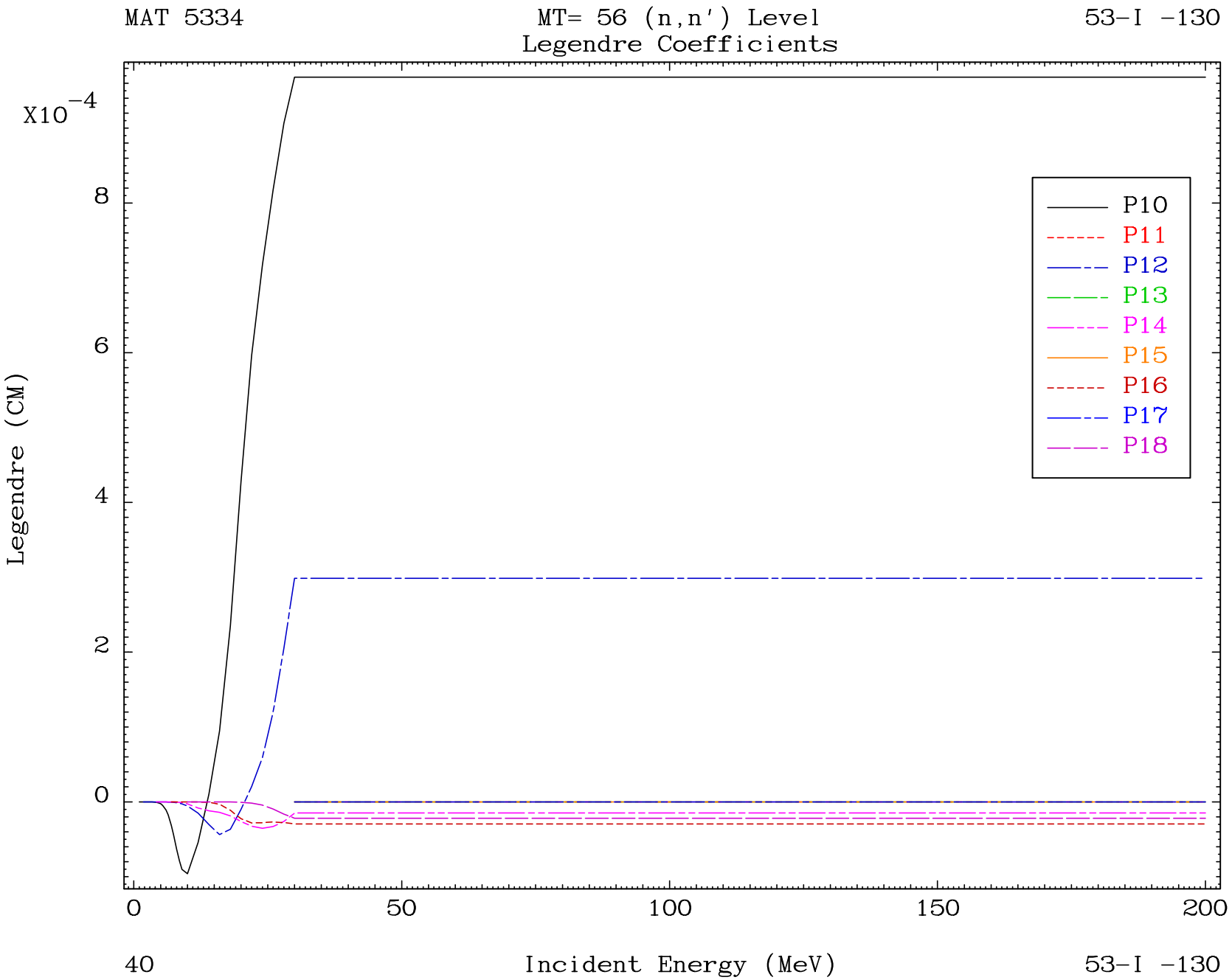

MAT 5334
MT= 55 (n,n') Level
Legendre Coefficients
53-I -130
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
35
Incident Energy (MeV)
53-I -130

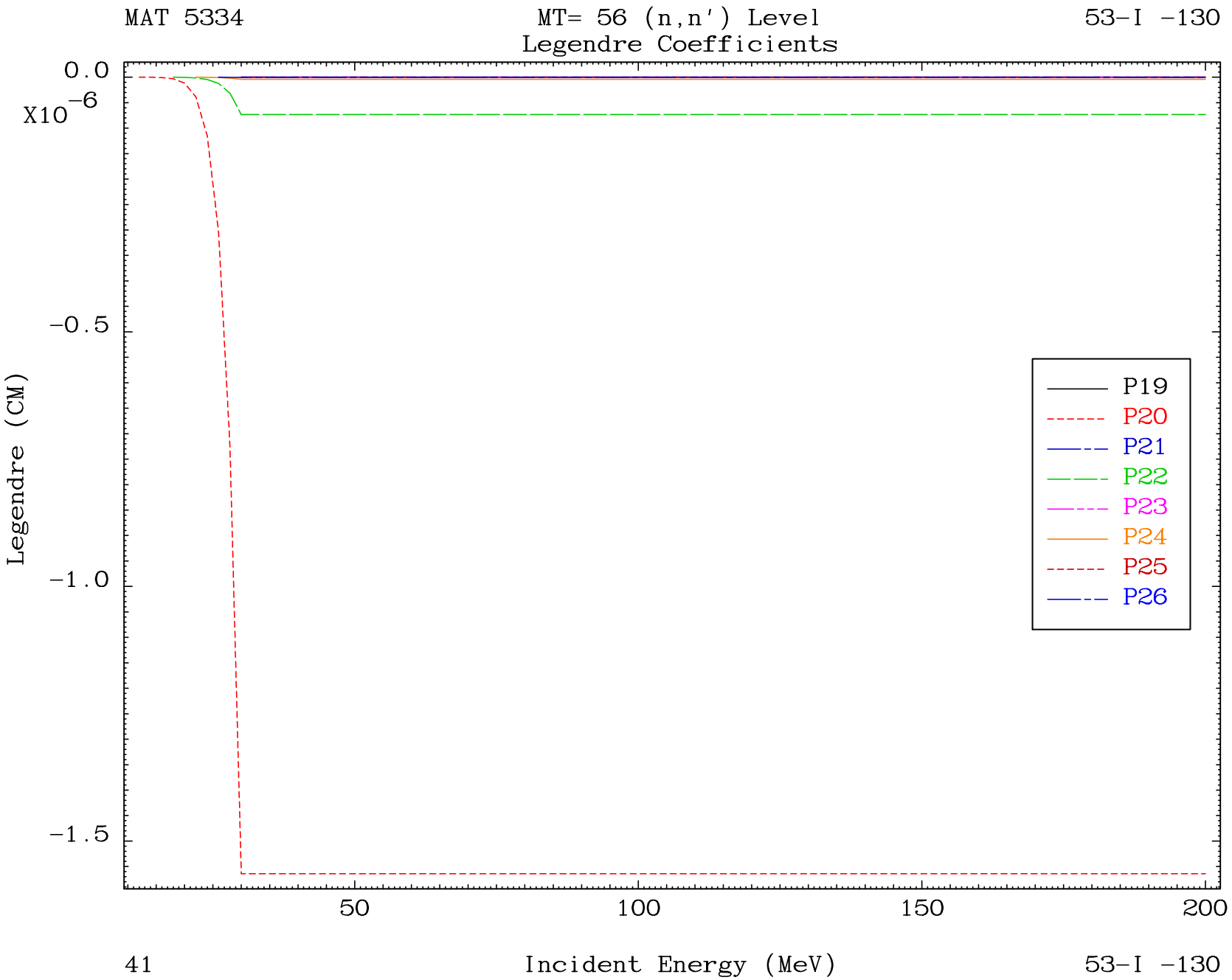

MAT 5334
MT= 55 (n,n') Level
Legendre Coefficients
53-I -130
0.04
0.03
0.02
0.01
0.00
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
36
Incident Energy (MeV)
53-I -130

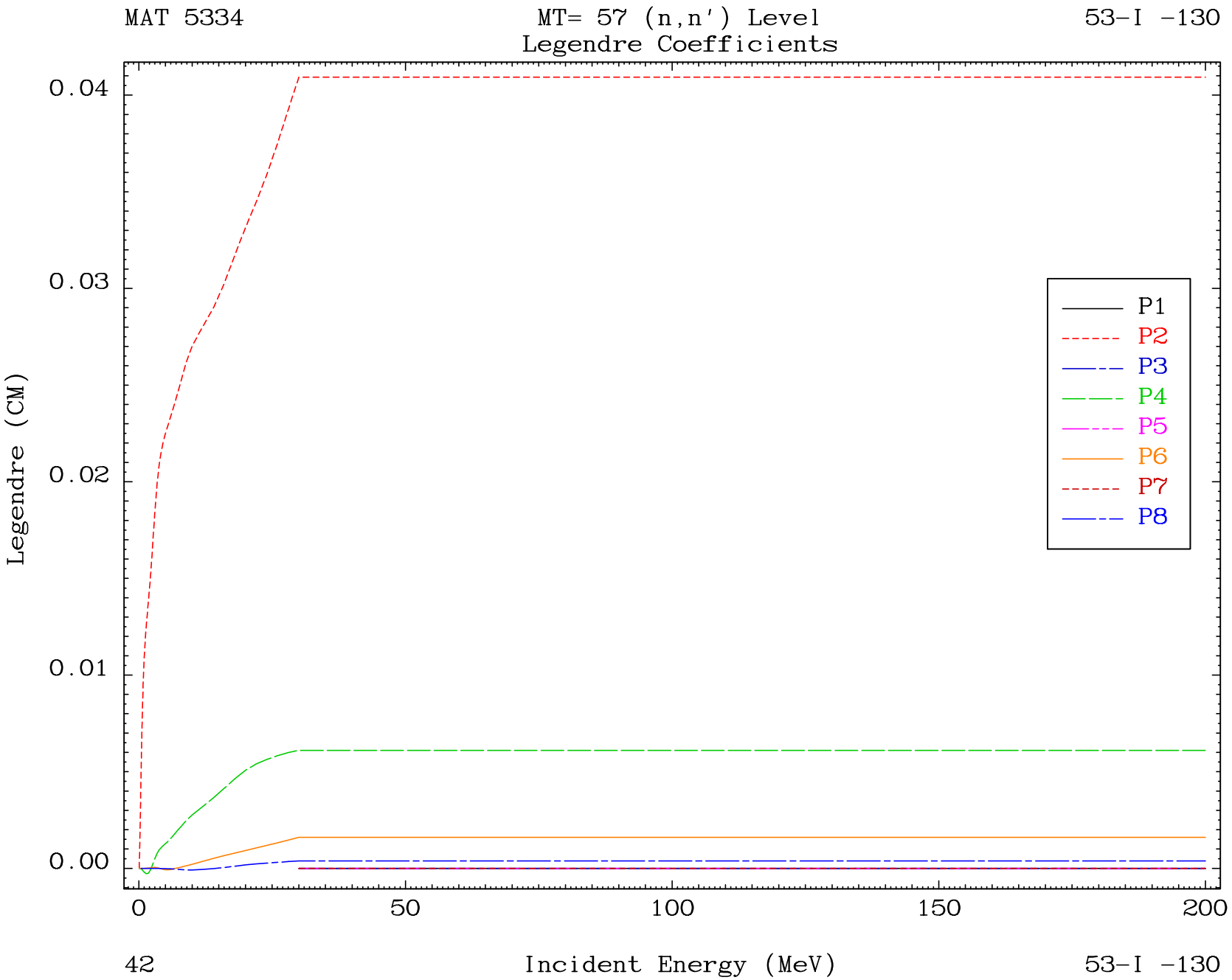

MAT 5334
MT= 55 (n,n') Level
Legendre Coefficients
53-I -130
X10-3
1.5
1.0
0.5
0.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
37
Incident Energy (MeV)
53-I -130

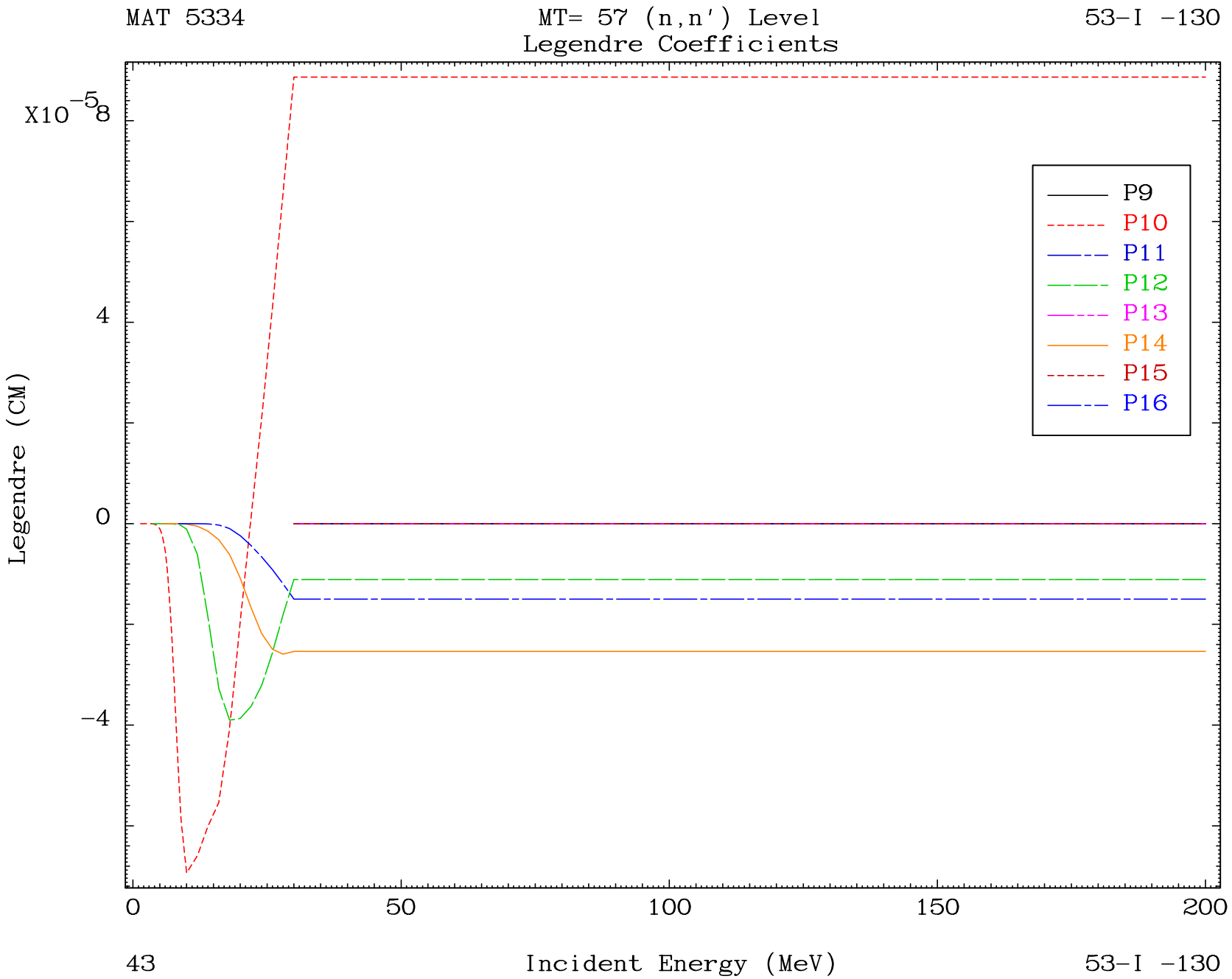

MAT 5334
MT= 55 (n,n') Level
Legendre Coefficients
53-I -130
X10-25
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
50
100
150
200
38
Incident Energy (MeV)
53-I -130
P28
P29
P30
P31
P32
P33
P34
P35
P36

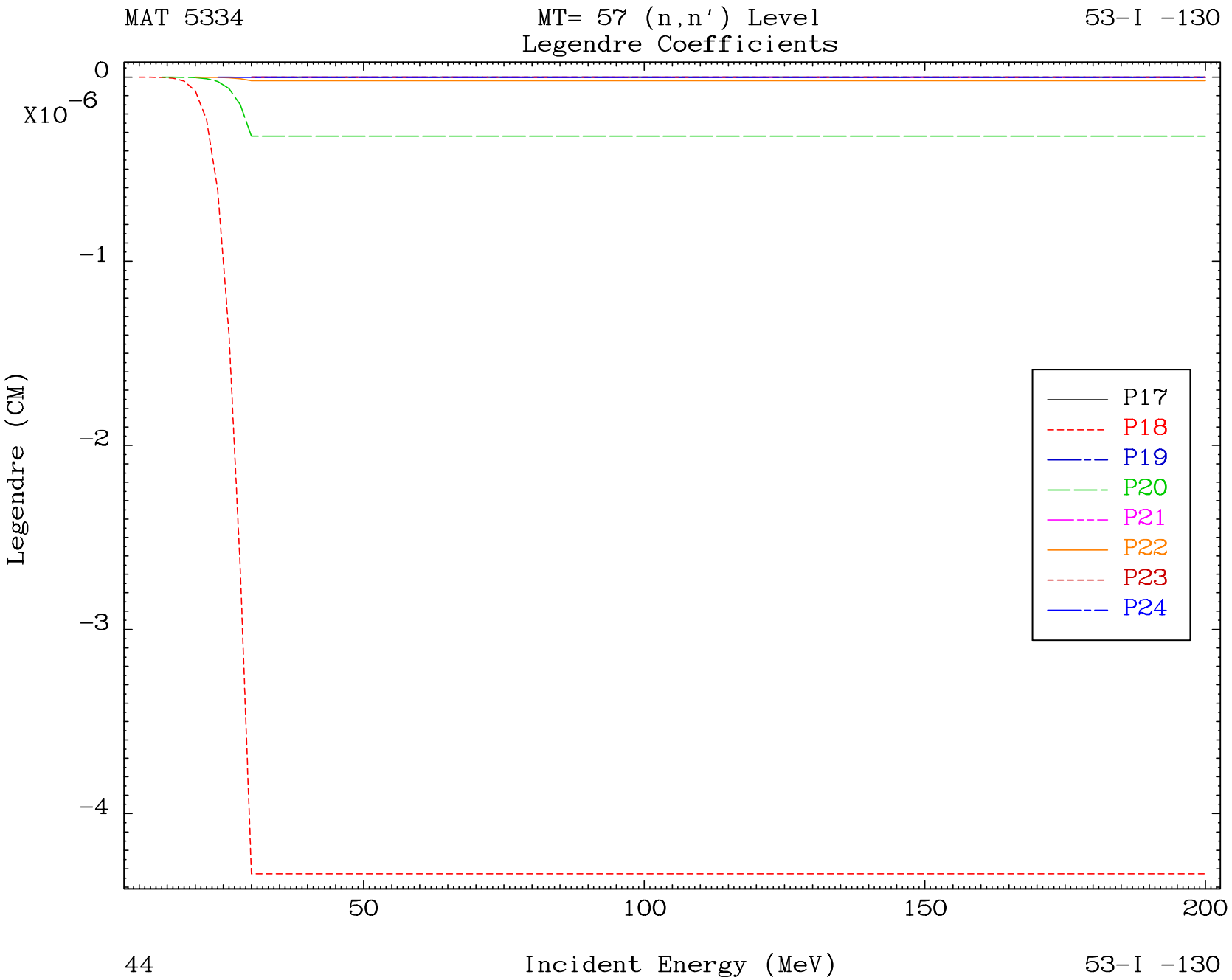

MAT 5334
MT= 56 (n,n') Level
Legendre Coefficients
53-I -130
0.06
0.04
0.02
0.00
-0.02
-0.04
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
39
Incident Energy (MeV)
53-I -130

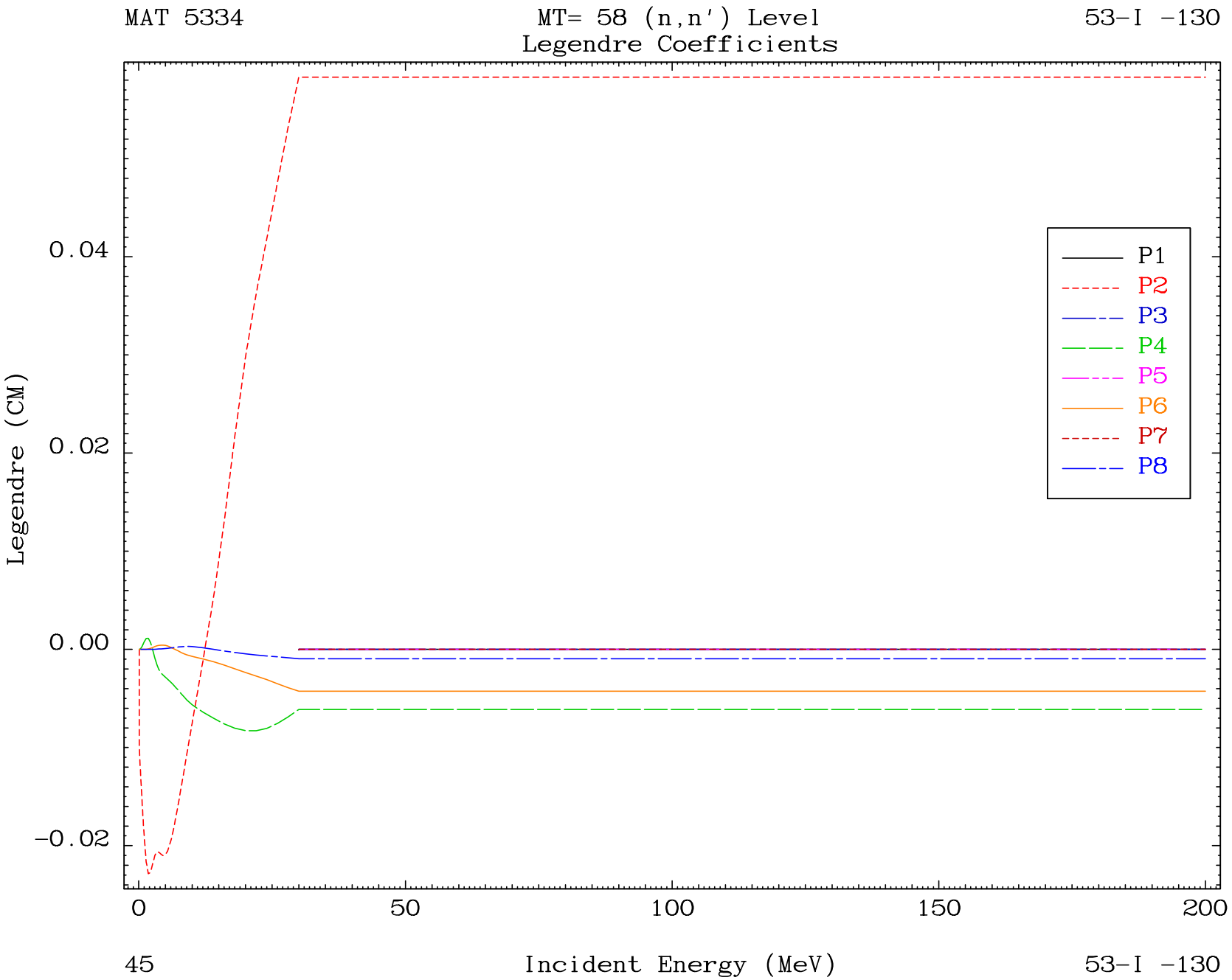

MAT 5334
MT= 56 (n,n') Level
Legendre Coefficients
53-I -130
X10-4
8
6
4
2
0
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
40
Incident Energy (MeV)
53-I -130

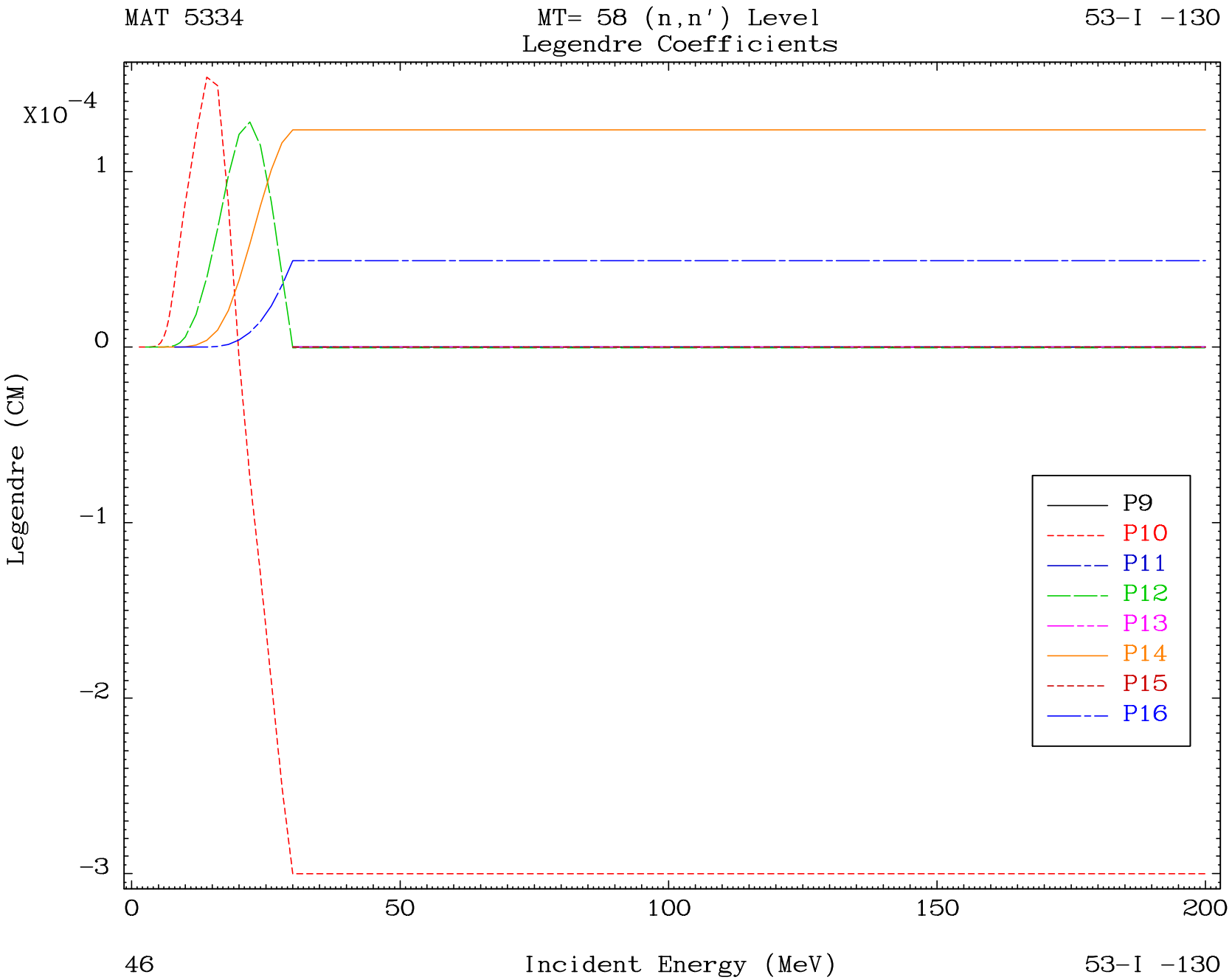

MAT 5334
MT= 56 (n,n') Level
Legendre Coefficients
53-I -130
0.0
X10^-6
-0.5
-1.0
-1.5
Legendre (CM)
50
100
150
200
41
Incident Energy (MeV)
53-I -130
P19
P20
P21
P22
P23
P24
P25
P26

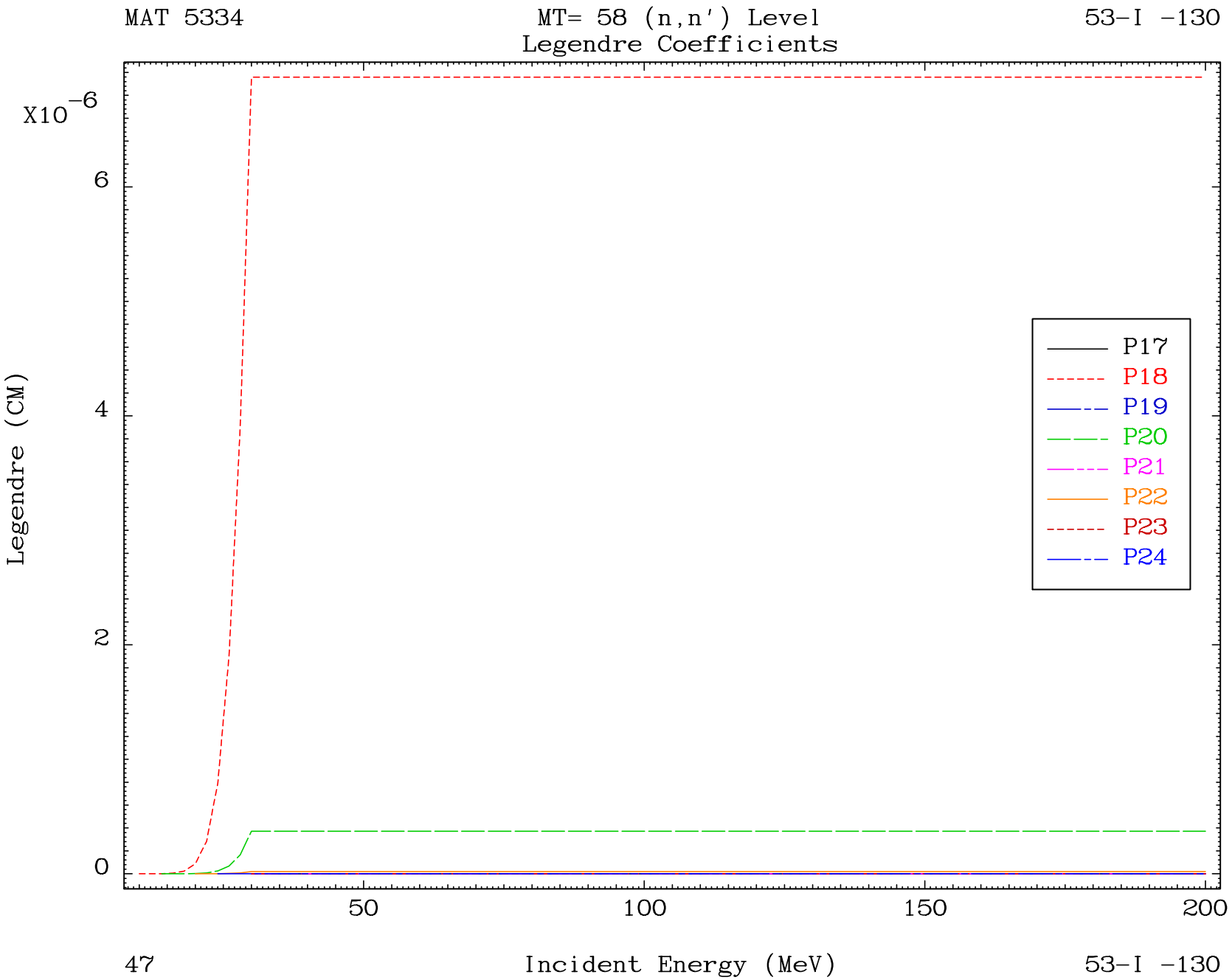

MAT 5334
MT= 57 (n,n') Level
Legendre Coefficients
53-I -130
0.04
0.03
0.02
0.01
0.00
Legendre (CM)
0
50
100
150
200
42
Incident Energy (MeV)
53-I -130
P1
P2
P3
P4
P5
P6
P7
P8

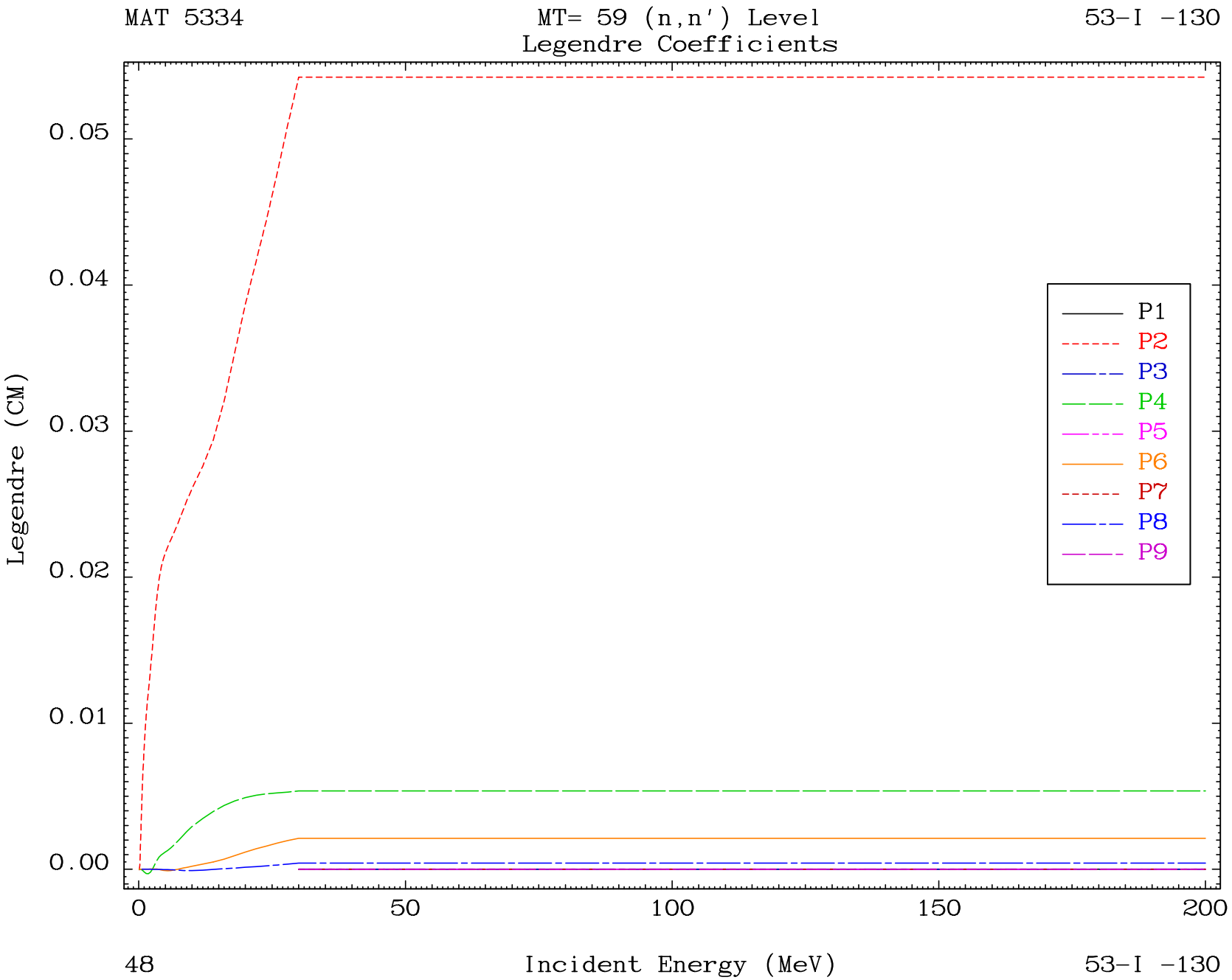

MAT 5334
MT= 57 (n,n') Level
Legendre Coefficients
53-I -130
X10 -5
8
4
0
-4
Legendre (CM)
P9
P10
P11
P12
P13
P14
P15
P16
0
50
100
150
200
43
Incident Energy (MeV)
53-I -130

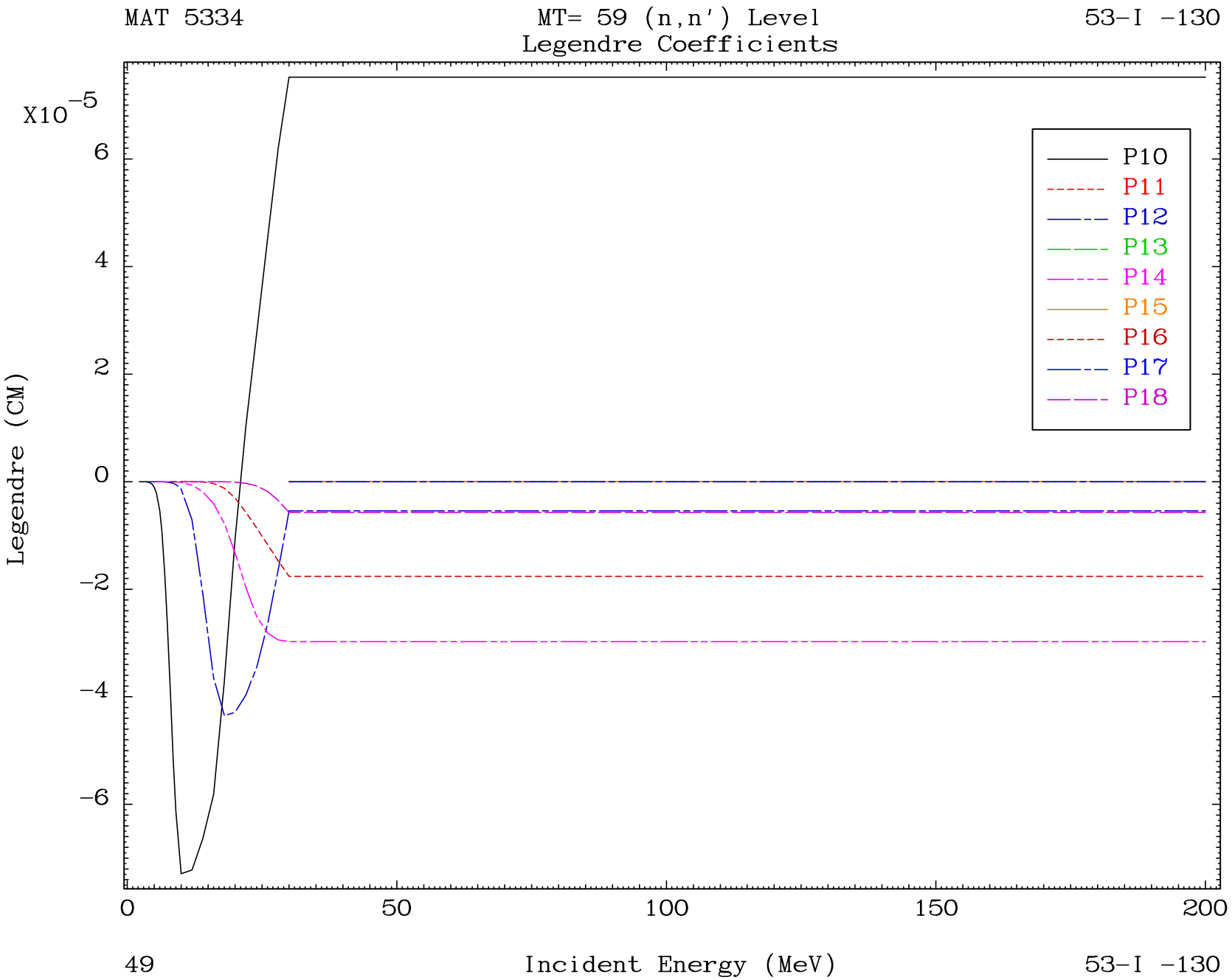

MAT 5334
MT= 57 (n,n') Level
Legendre Coefficients
53-I -130
0
X10^-6
-1
-2
-3
-4
Legendre (CM)
50
100
150
200
P17
P18
P19
P20
P21
P22
P23
P24
44
Incident Energy (MeV)
53-I -130

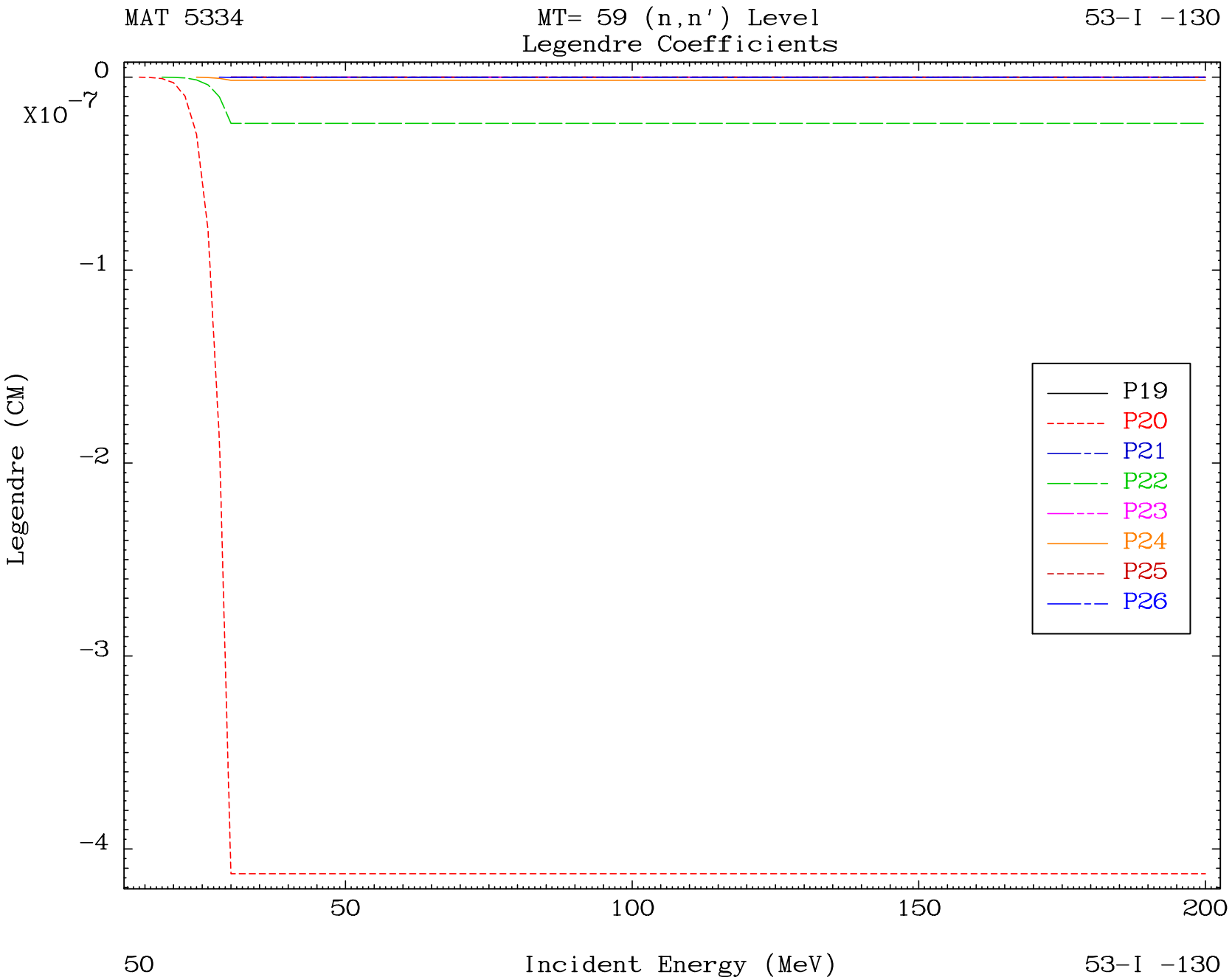

MAT 5334
MT= 58 (n,n') Level
Legendre Coefficients
53-I -130
0.04
0.02
0.00
-0.02
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
0
50
100
150
200
45
Incident Energy (MeV)
53-I -130

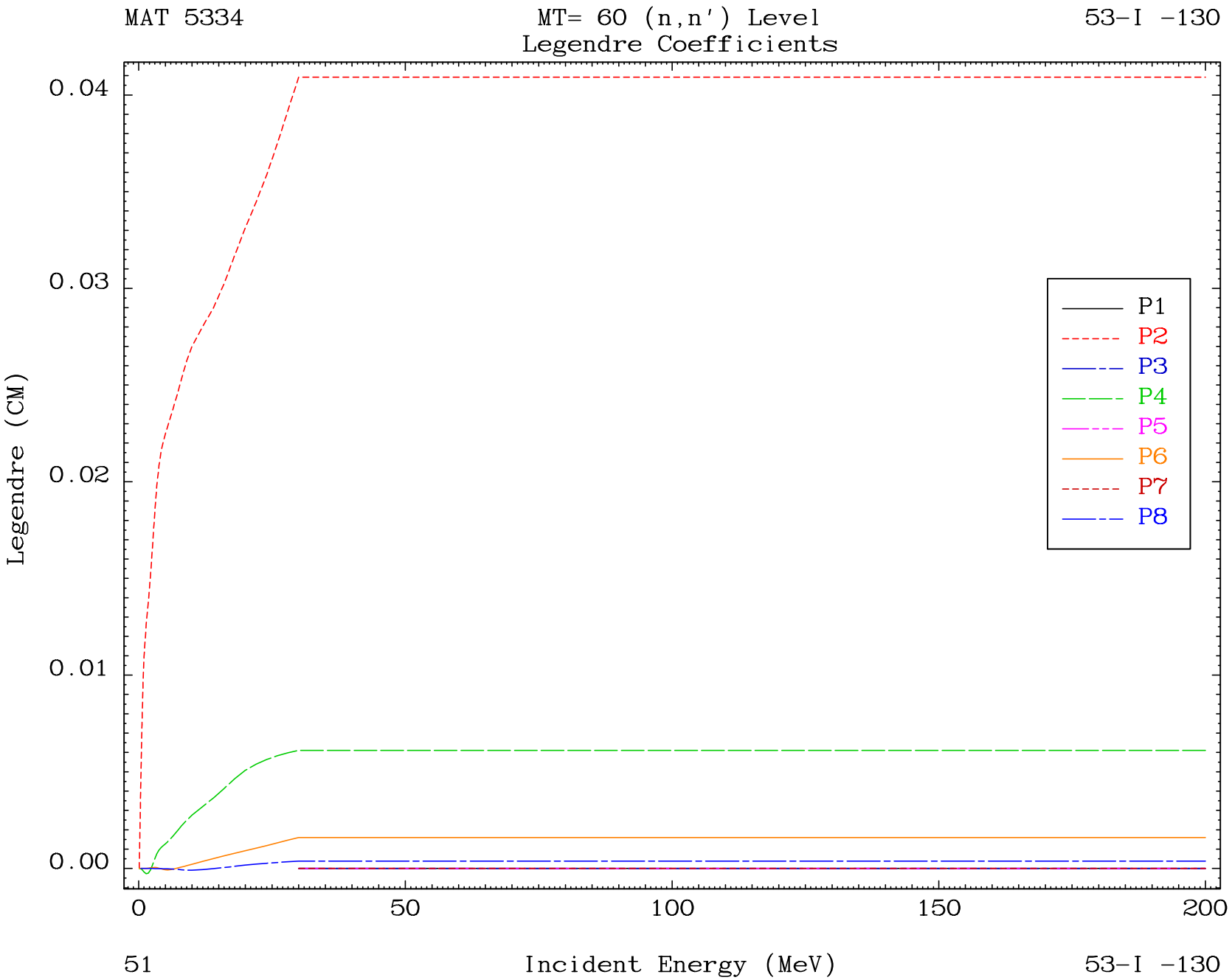

MAT 5334
MT= 58 (n,n') Level
Legendre Coefficients
53-I -130
X10^-4
1
0
-1
-2
-3
Legendre (CM)
0
50
100
150
200
46
Incident Energy (MeV)
53-I -130
P9
P10
P11
P12
P13
P14
P15
P16

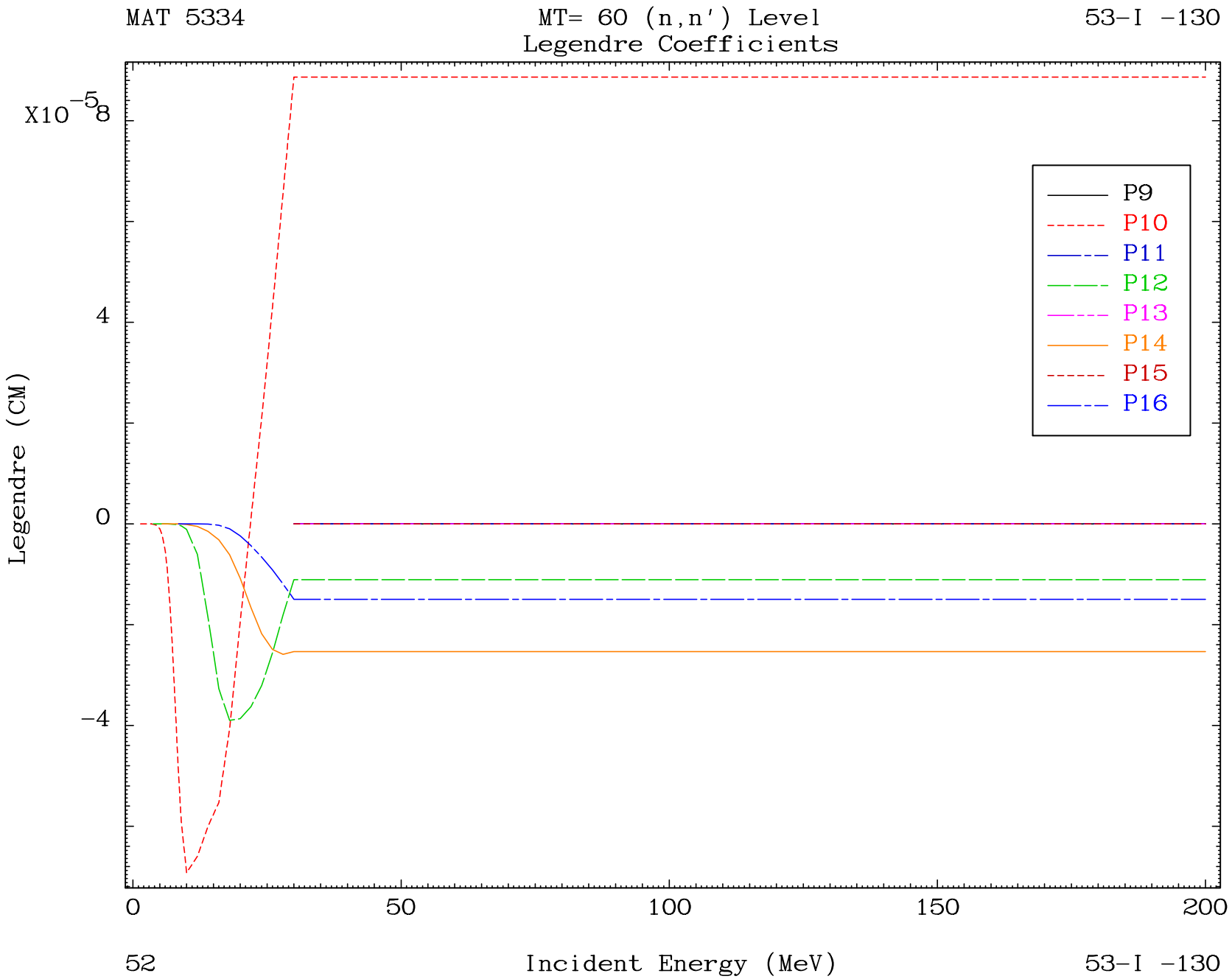

MAT 5334
MT= 58 (n,n') Level
Legendre Coefficients
53-I -130
X10^-6
6
4
2
0
Legendre (CM)
50
100
150
200
47
Incident Energy (MeV)
53-I -130
P17
P18
P19
P20
P21
P22
P23
P24

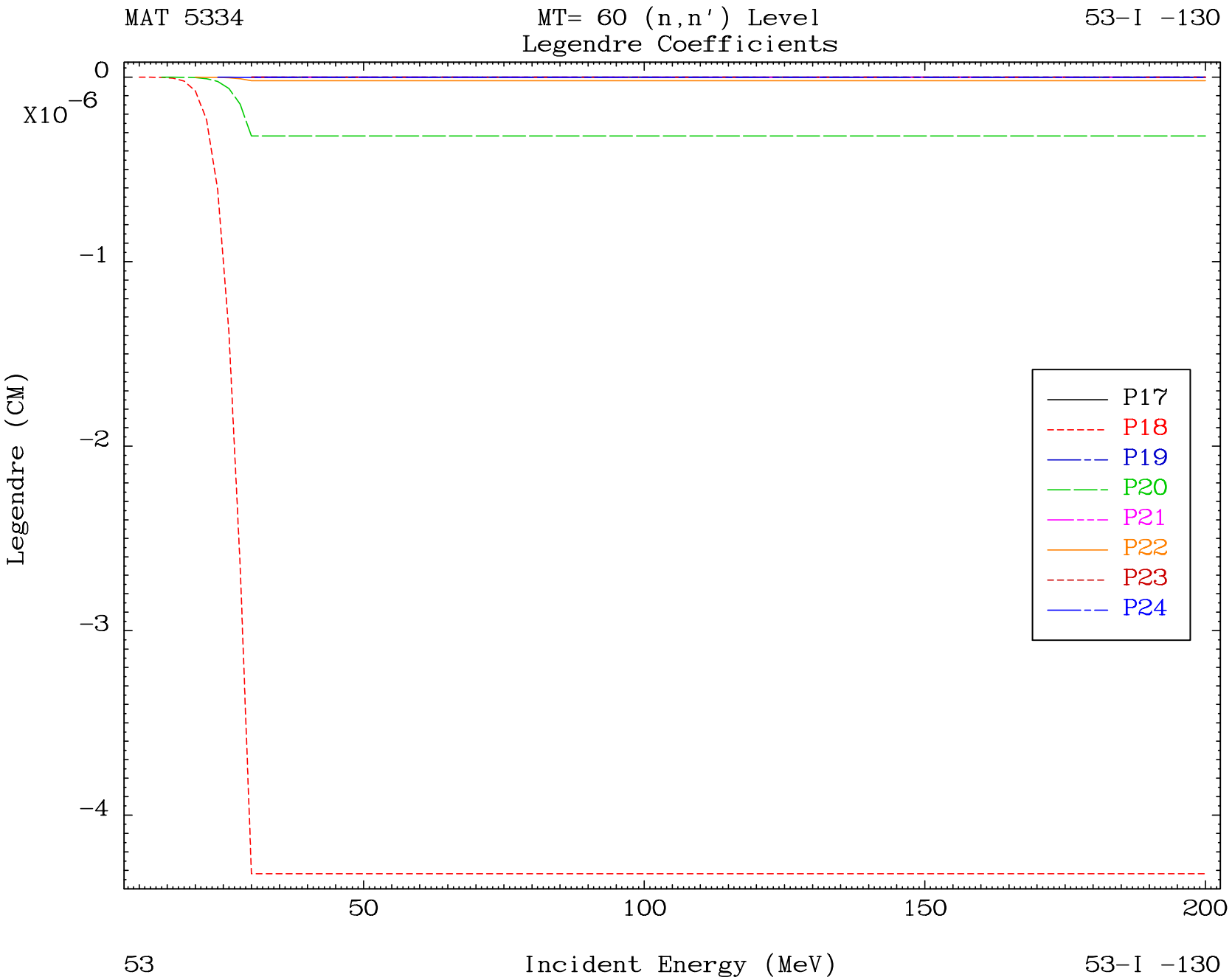

MAT 5334
MT= 59 (n,n') Level
Legendre Coefficients
53-I -130
0.05
0.04
0.03
0.02
0.01
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
48
Incident Energy (MeV)
53-I -130

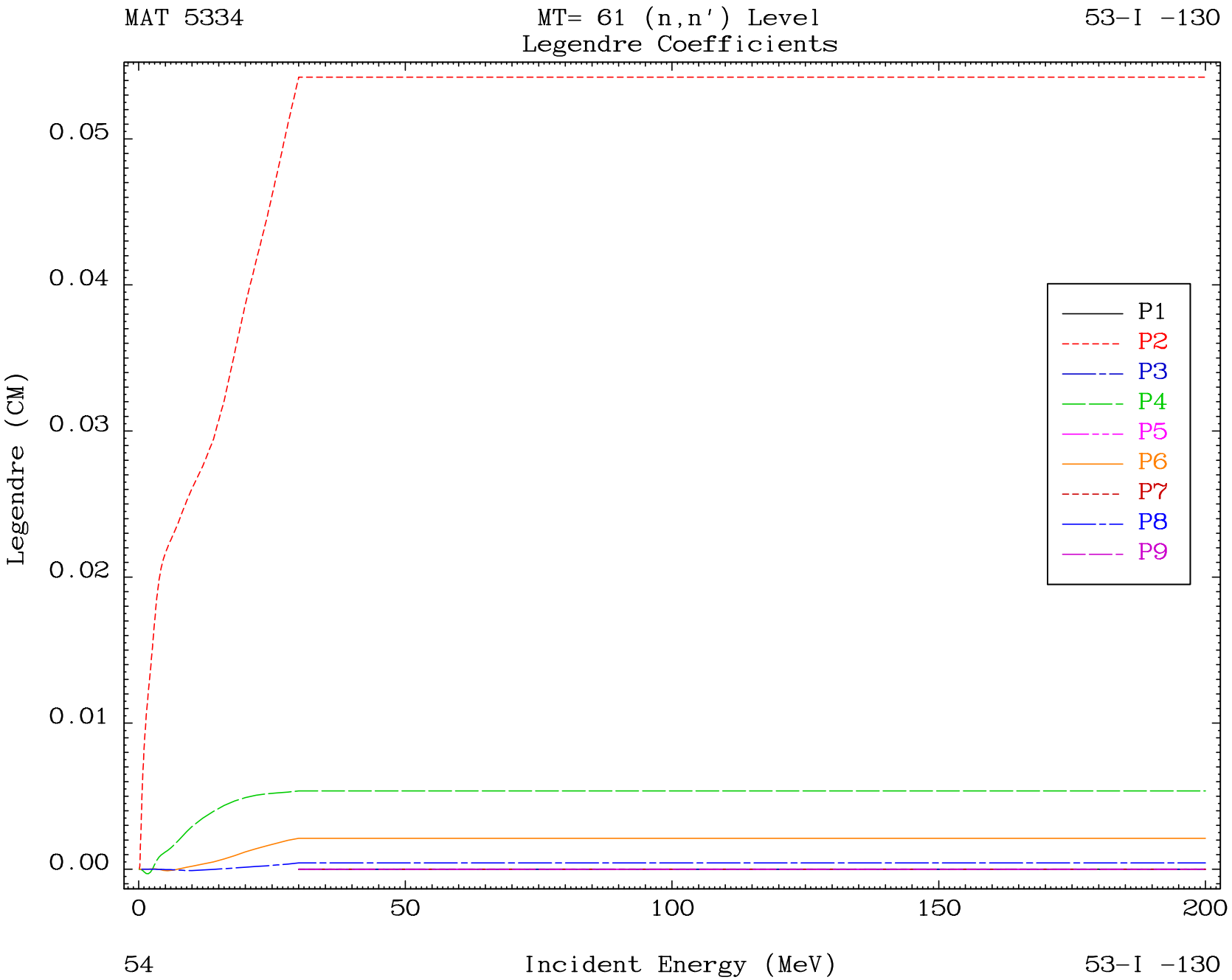

MAT 5334
MT= 59 (n,n') Level
Legendre Coefficients
53-I -130
X10-5
6
4
2
0
-2
-4
-6
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
49
Incident Energy (MeV)
53-I -130

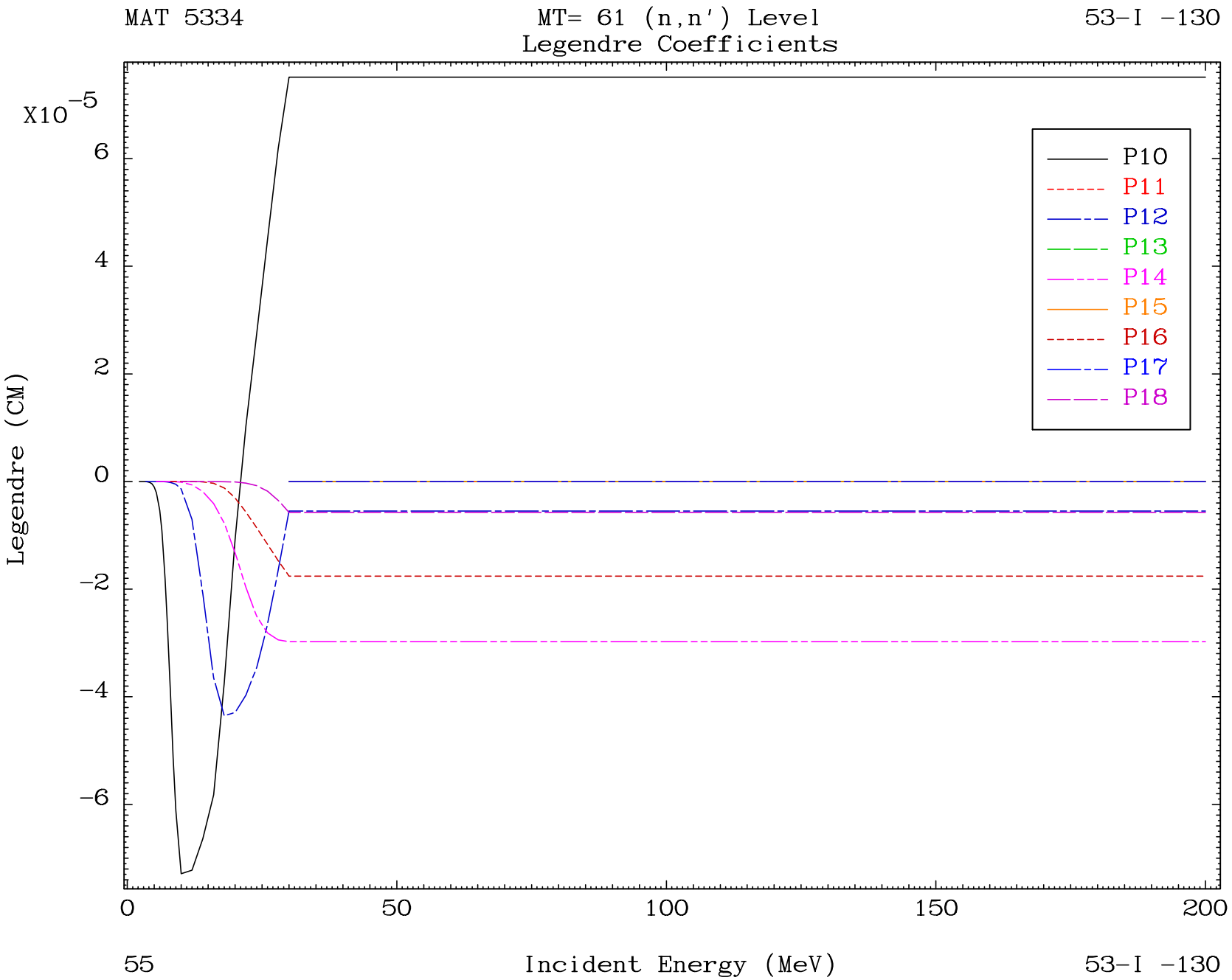

MAT 5334
MT= 59 (n,n') Level
Legendre Coefficients
53-I -130
0
X10-7
-1
-2
-3
-4
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
50
100
150
200
50
Incident Energy (MeV)
53-I -130

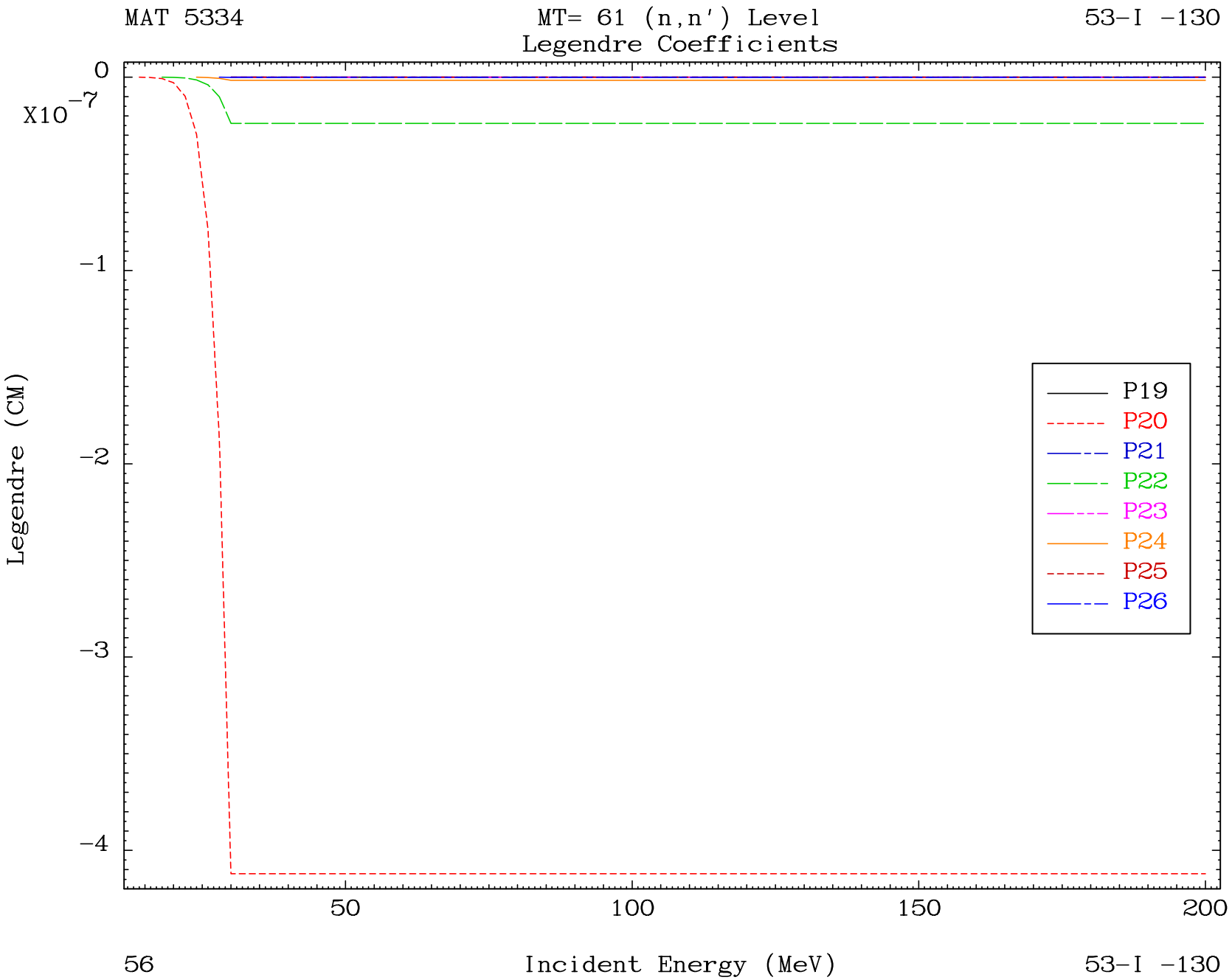

MAT 5334
MT= 60 (n,n') Level
Legendre Coefficients
53-I -130
0.04
0.03
0.02
0.01
0.00
Legendre (CM)
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
51
Incident Energy (MeV)
53-I -130

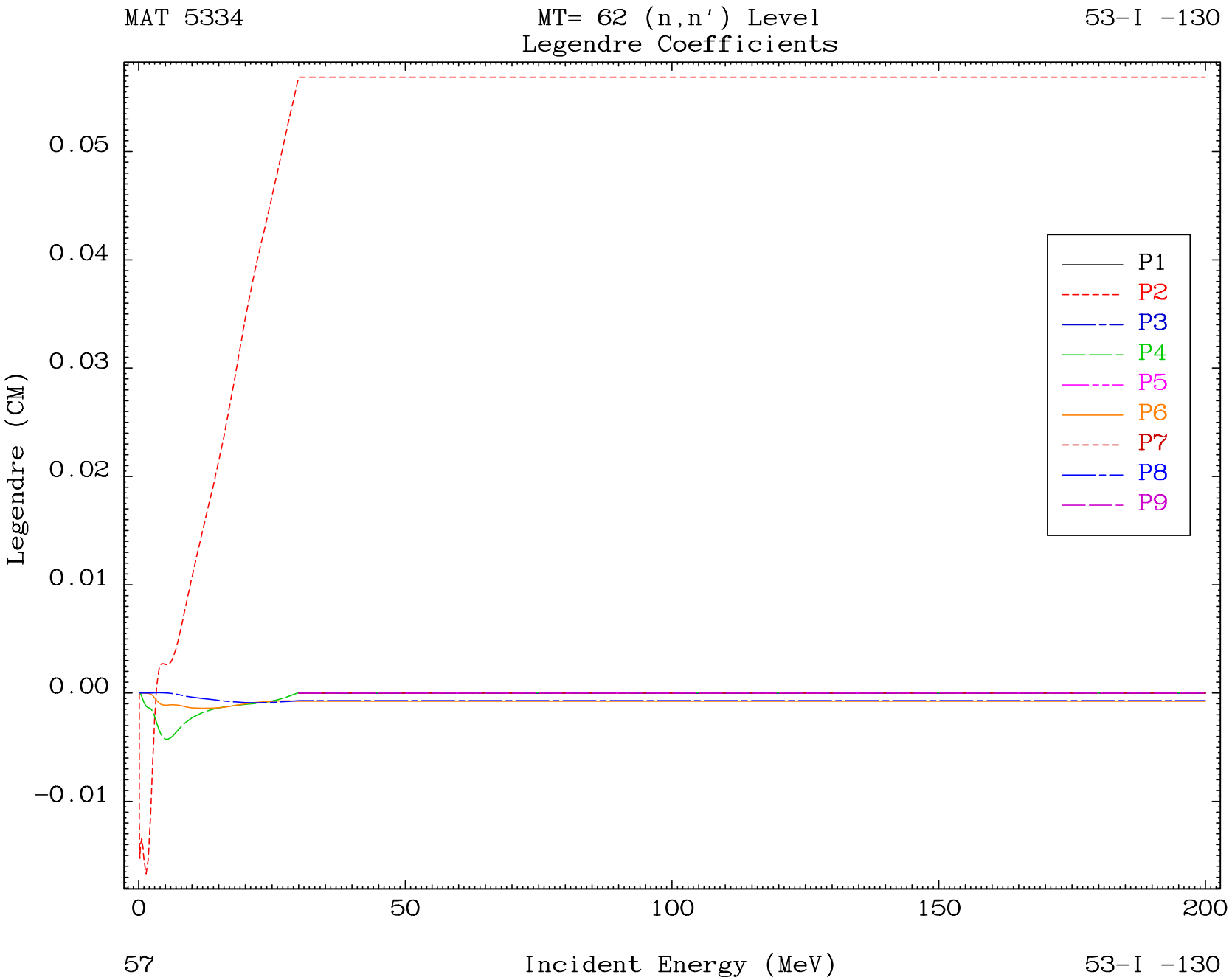

MAT 5334
MT= 60 (n,n') Level
Legendre Coefficients
53-I -130
X10 -5
8
4
0
-4
Legendre (CM)
P9
P10
P11
P12
P13
P14
P15
P16
0
50
100
150
200
52
Incident Energy (MeV)
53-I -130

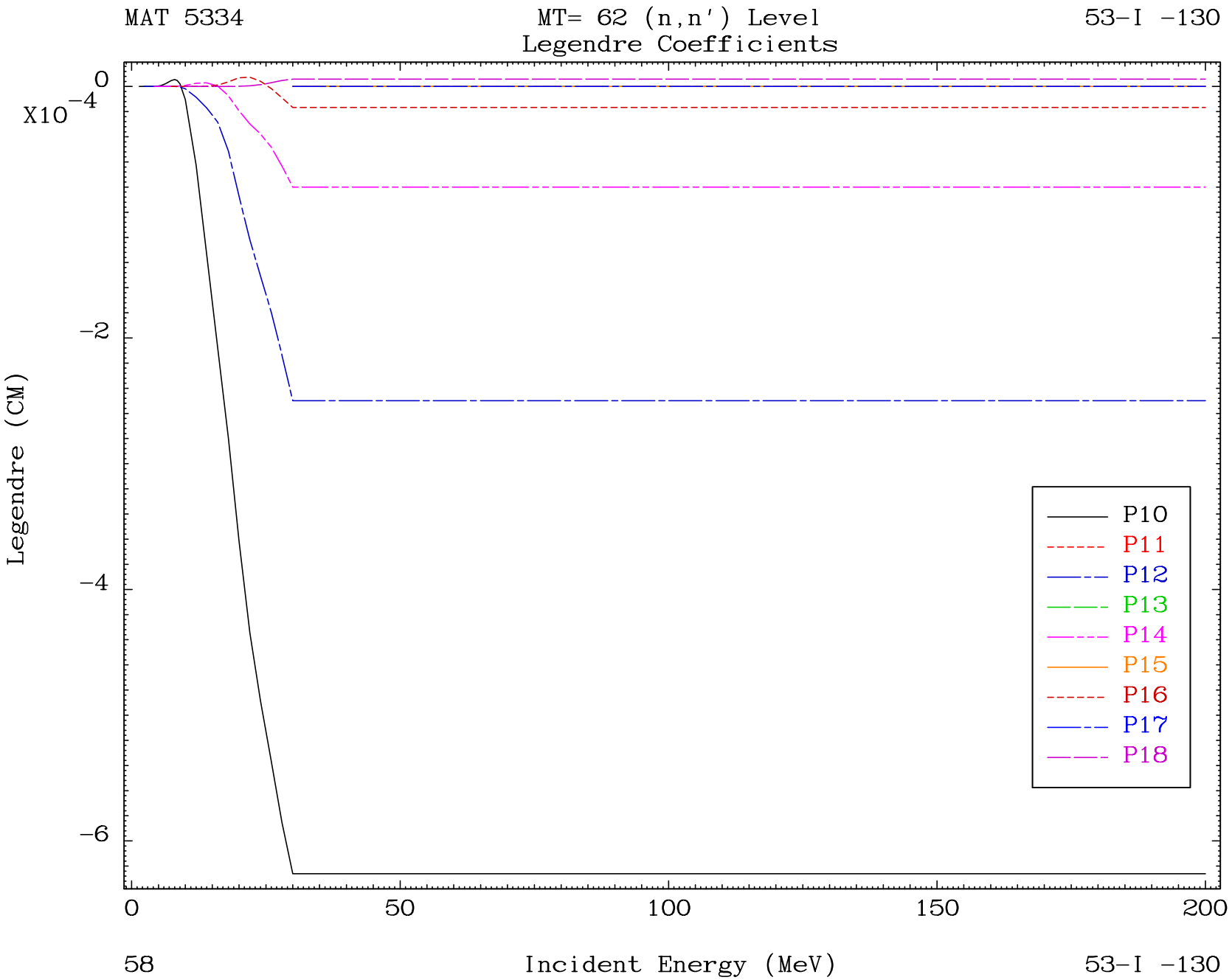

MAT 5334
MT= 60 (n,n') Level
Legendre Coefficients
53-I -130
0
X10^-6
-1
-2
-3
-4
Legendre (CM)
50
100
150
200
53
Incident Energy (MeV)
53-I -130
P17
P18
P19
P20
P21
P22
P23
P24

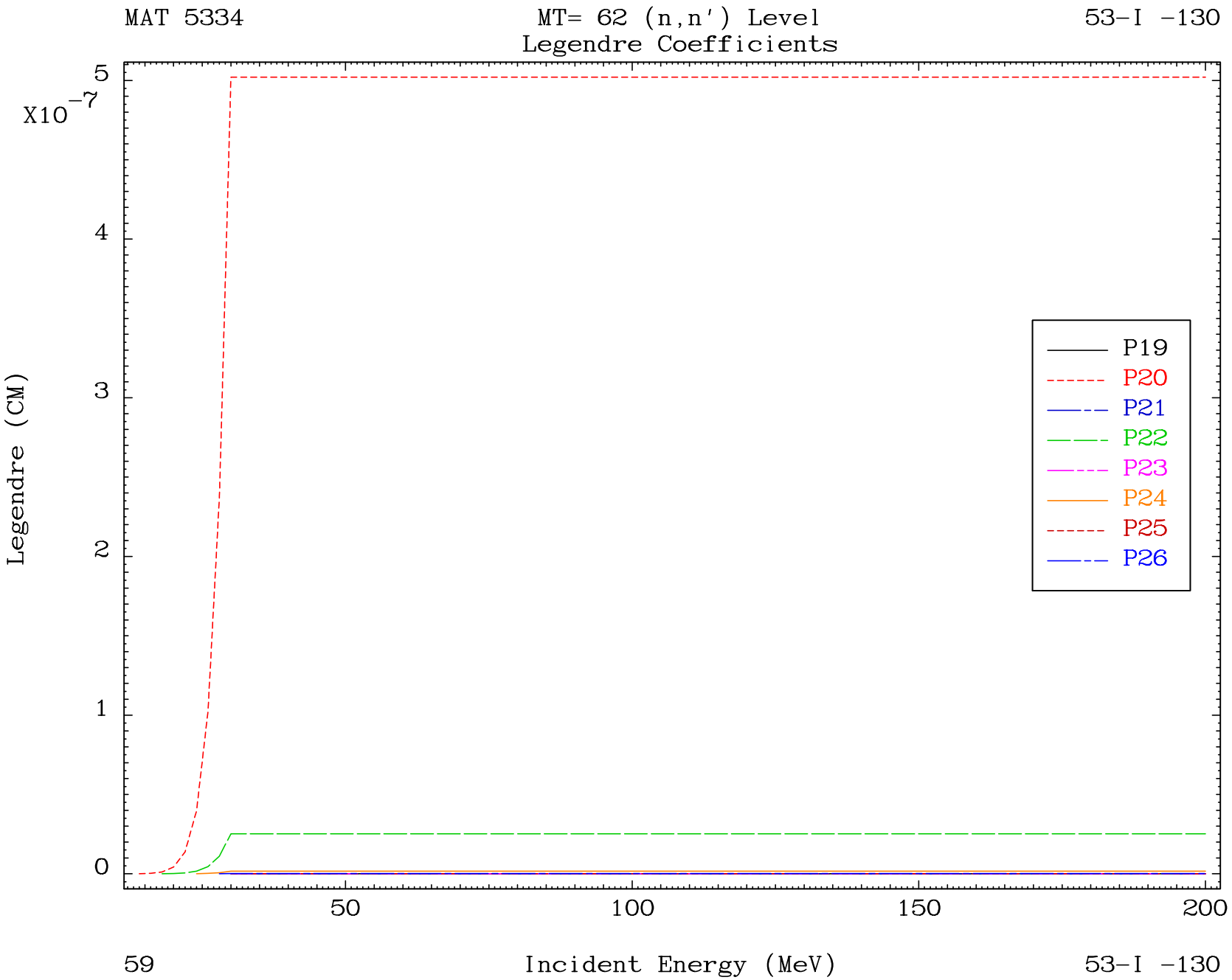

MAT 5334
MT= 61 (n,n') Level
Legendre Coefficients
53-I -130
Legendre (CM)
0.05
0.04
0.03
0.02
0.01
0.00
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
54
Incident Energy (MeV)
53-I -130

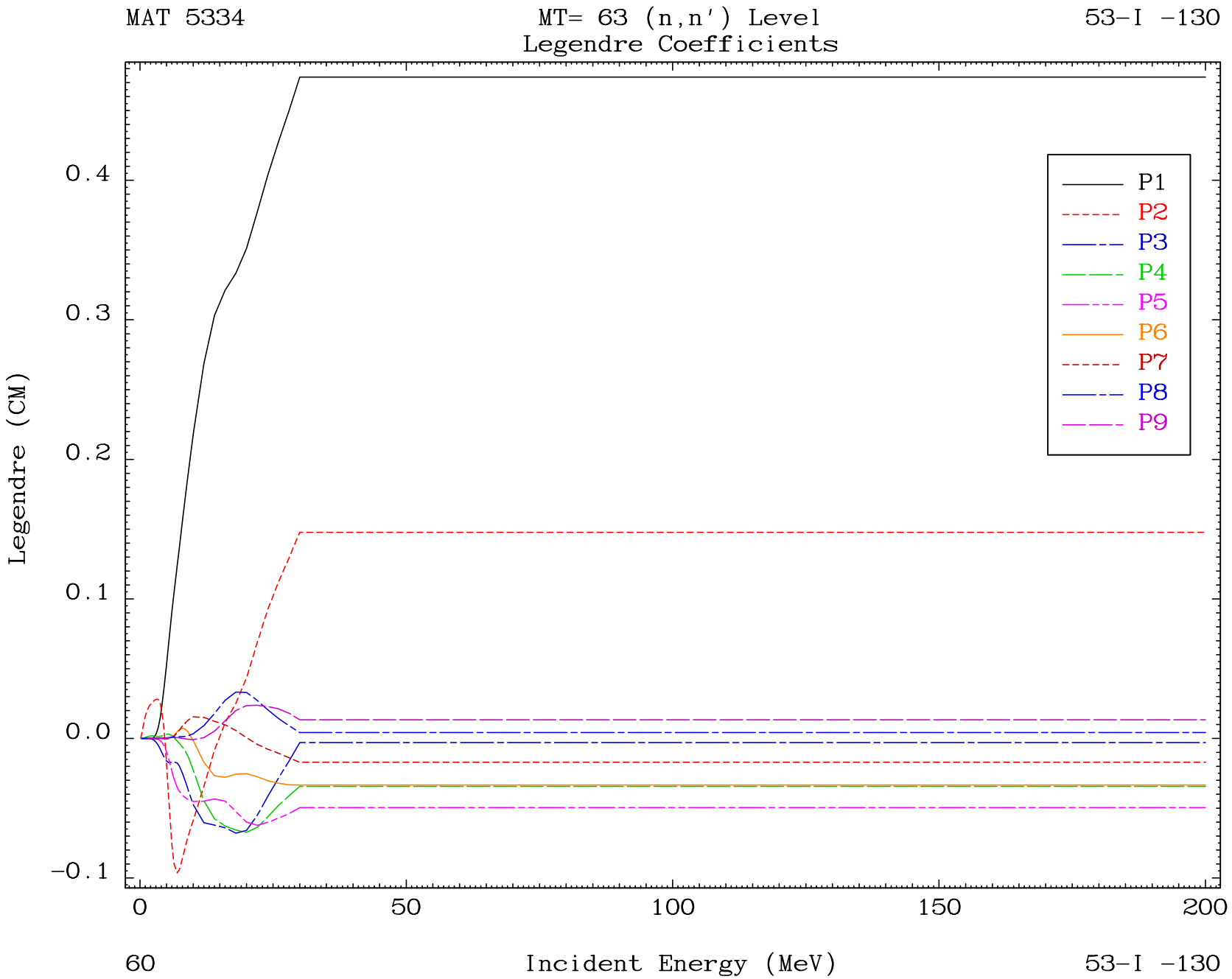

MAT 5334
MT= 61 (n,n') Level
Legendre Coefficients
53-I -130
X10-5
6
4
2
0
-2
-4
-6
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
55
Incident Energy (MeV)
53-I -130

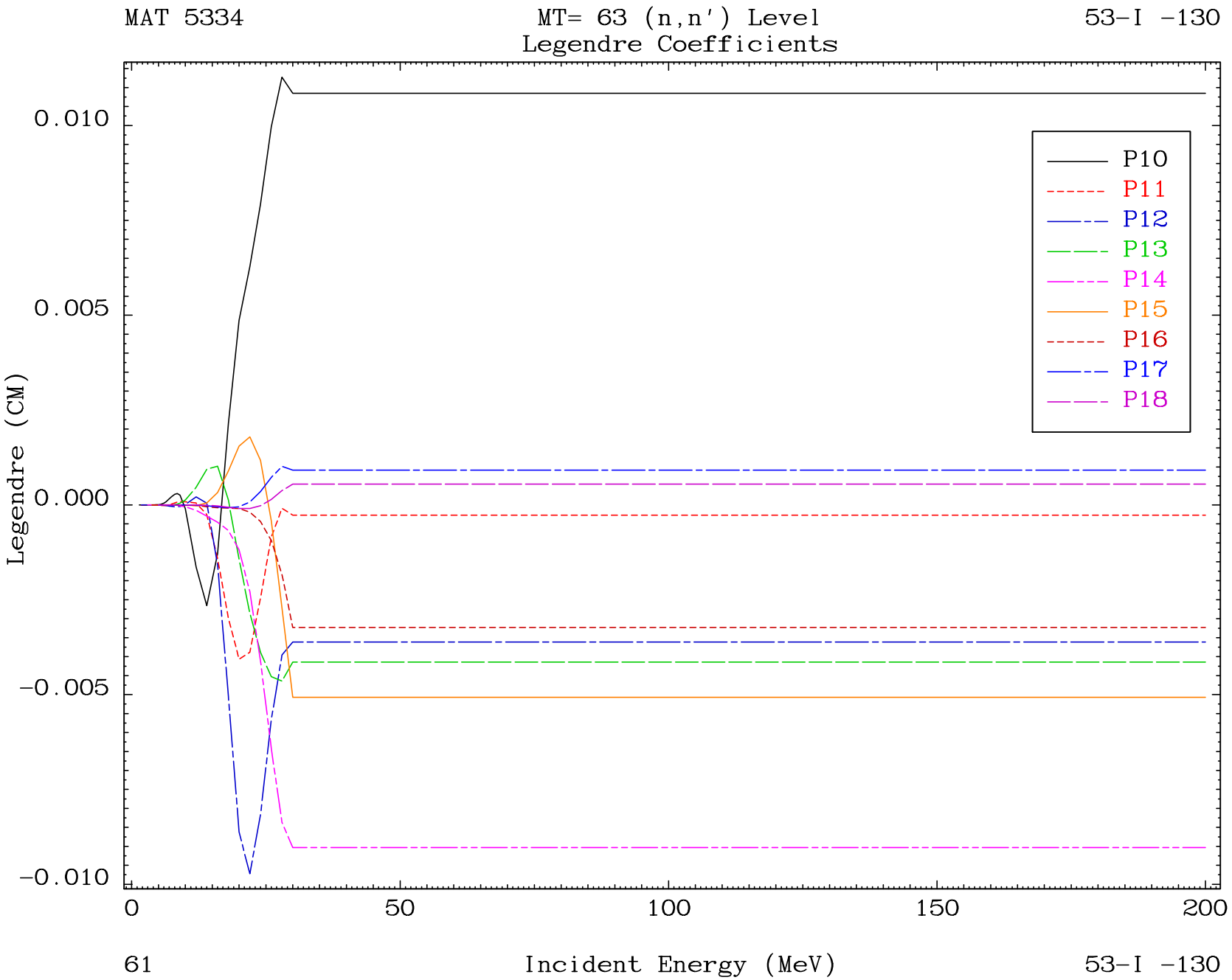

MAT 5334
MT= 61 (n,n') Level
Legendre Coefficients
53-I -130
0
X10-7
-1
-2
-3
-4
Legendre (CM)
50
100
150
200
P19
P20
P21
P22
P23
P24
P25
P26
56
Incident Energy (MeV)
53-I -130

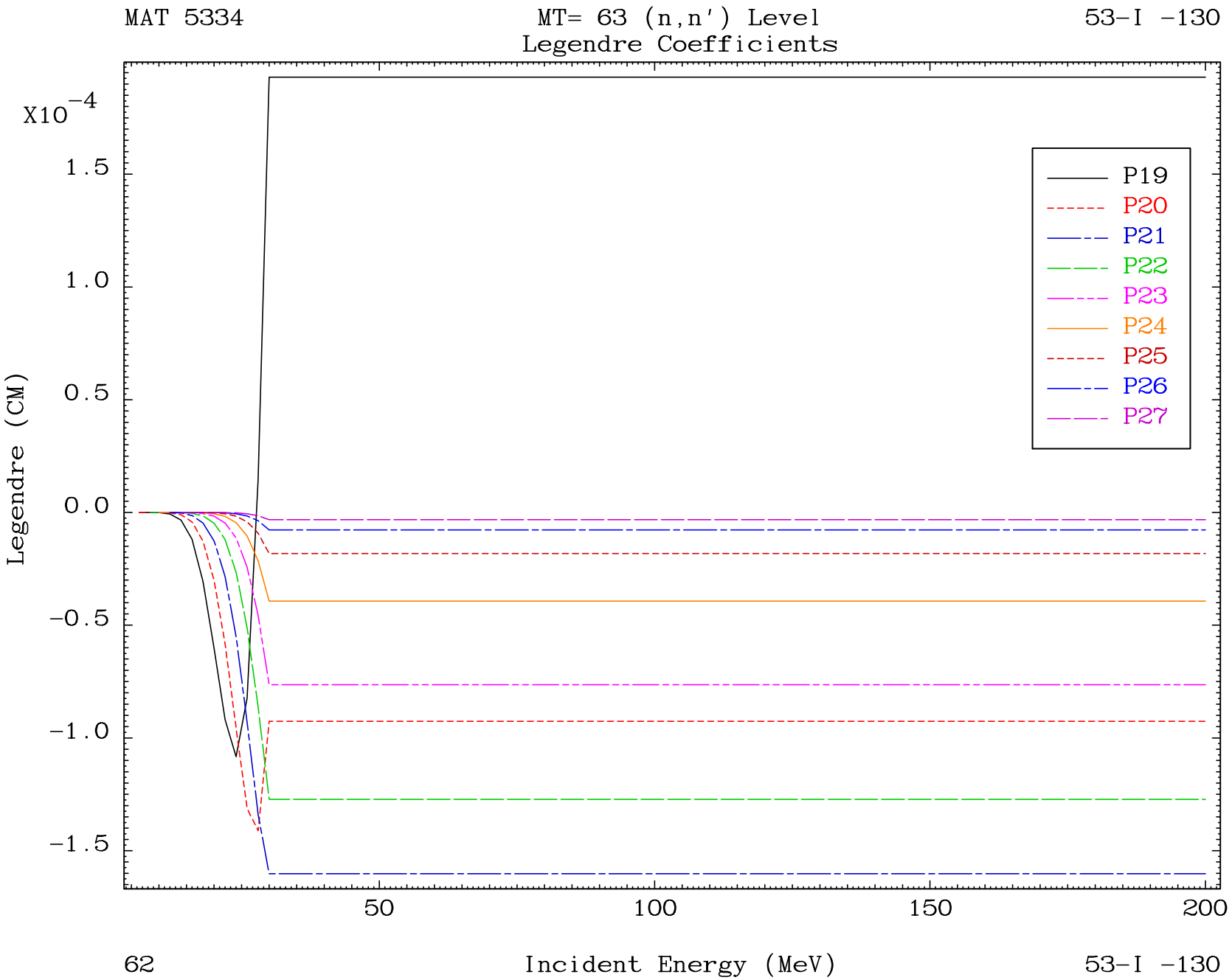

MAT 5334
MT= 62 (n,n') Level
Legendre Coefficients
53-I -130
0.05
0.04
0.03
0.02
0.01
0.00
-0.01
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
57
Incident Energy (MeV)
53-I -130

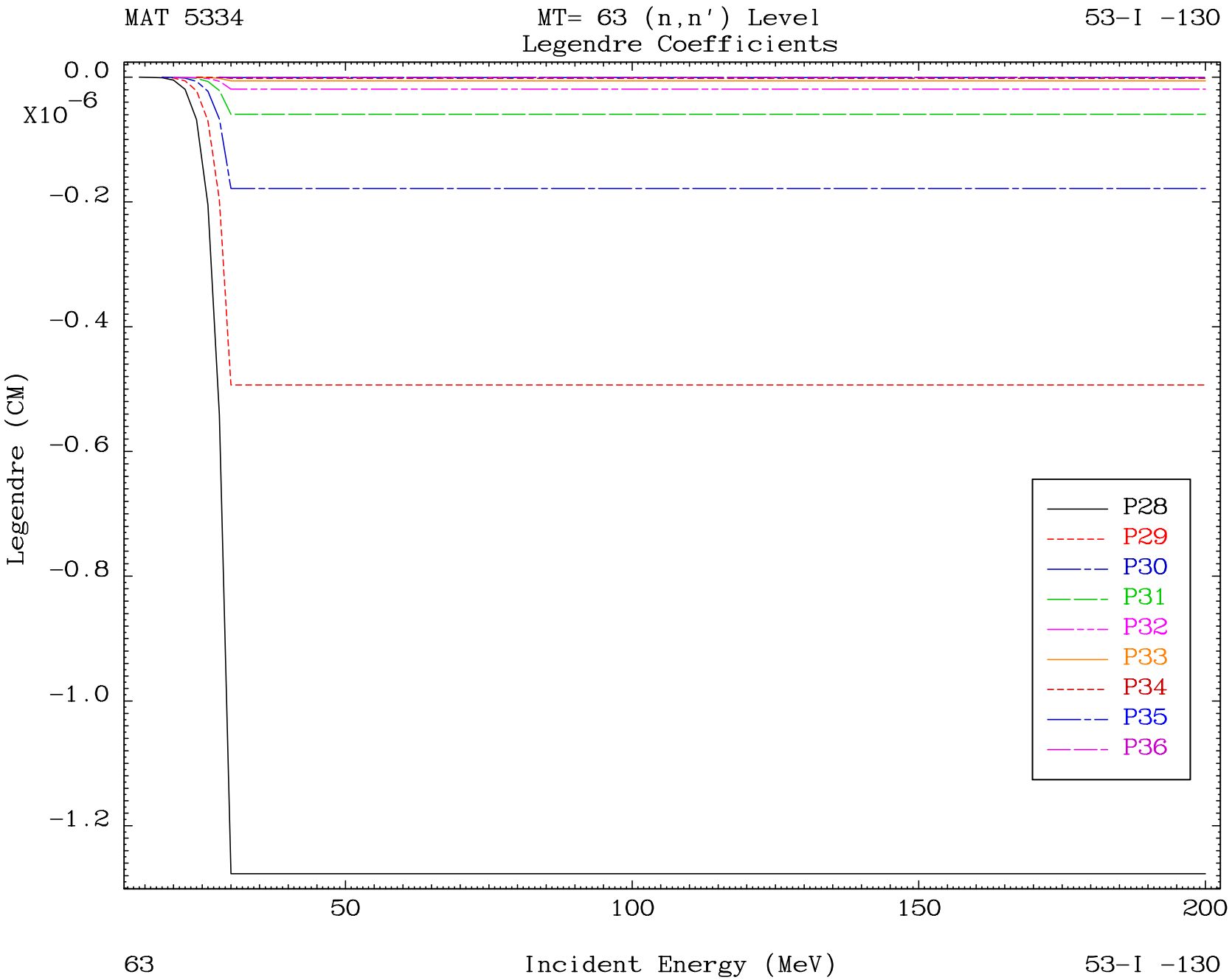

MAT 5334
MT= 62 (n,n') Level
Legendre Coefficients
53-I -130
X10^-4
0
-2
-4
-6
Legendre (CM)
0
50
100
150
200
58
Incident Energy (MeV)
53-I -130
P10
P11
P12
P13
P14
P15
P16
P17
P18

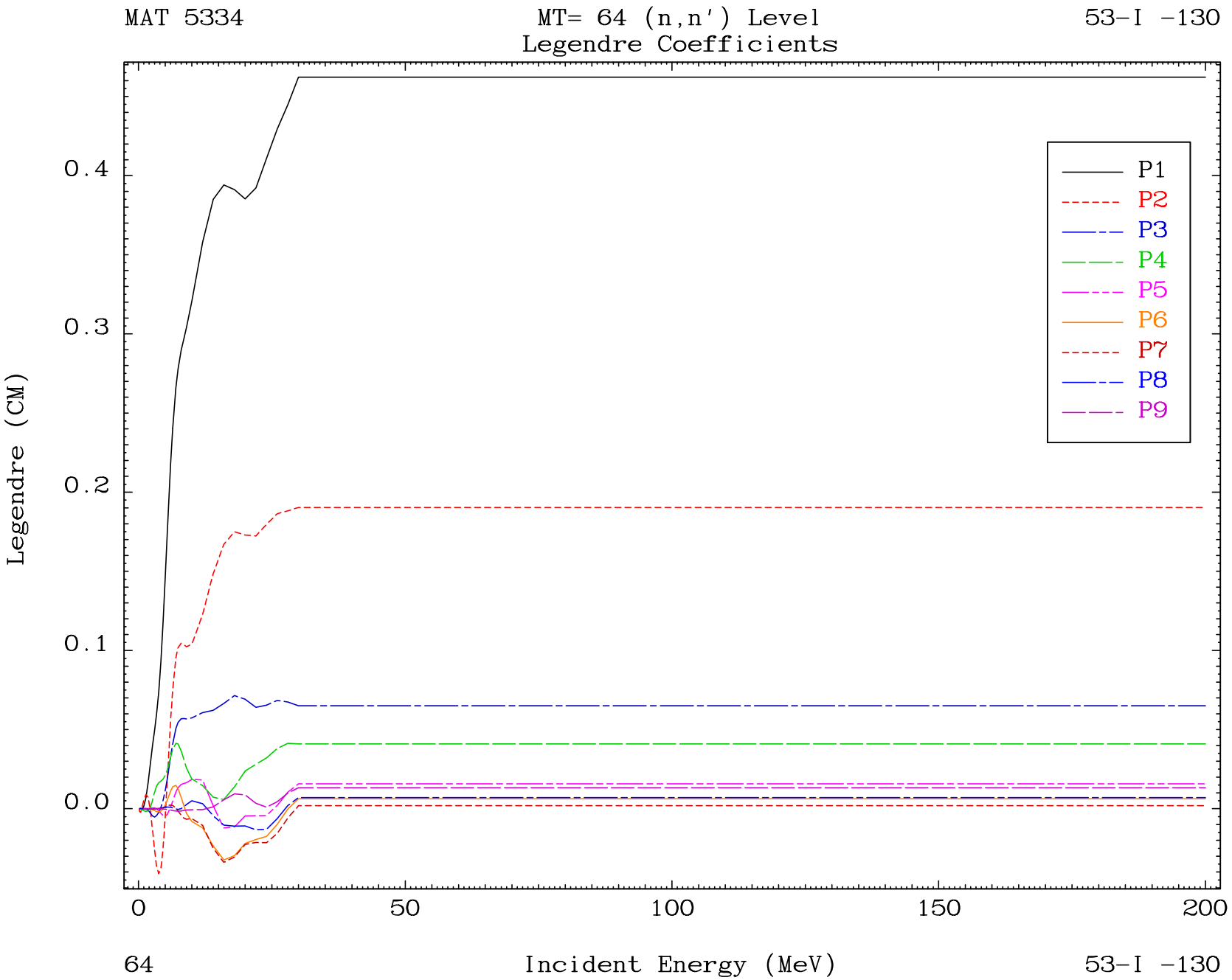

MAT 5334
MT= 62 (n,n') Level
Legendre Coefficients
53-I -130
X10^-7
5
4
3
2
1
0
Legendre (CM)
50
100
150
200
59
Incident Energy (MeV)
53-I -130
P19
P20
P21
P22
P23
P24
P25
P26

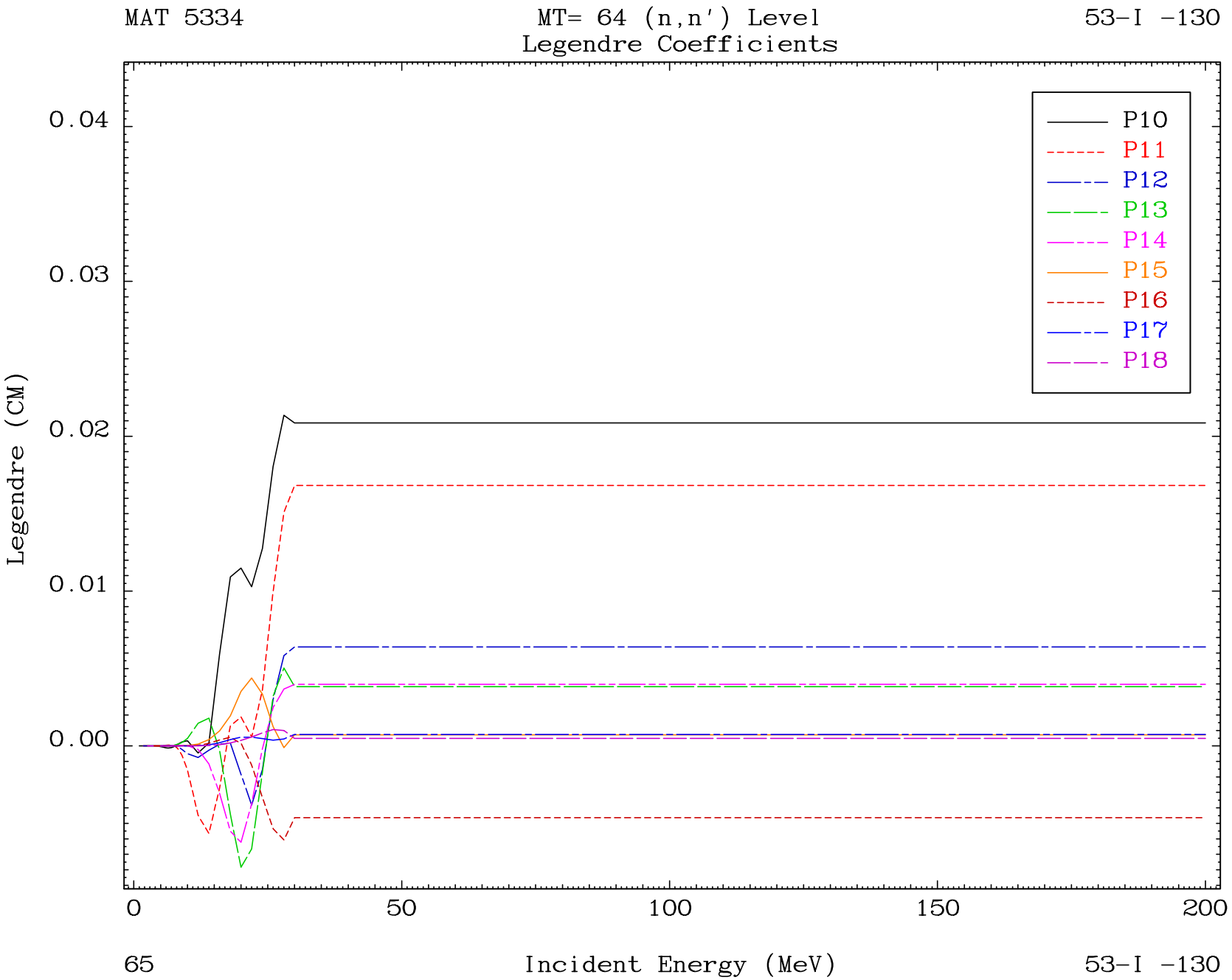

MAT 5334
MT= 63 (n,n') Level
Legendre Coefficients
53-I -130
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
-0.1
0
50
100
150
200
60
Incident Energy (MeV)
53-I -130
P1
P2
P3
P4
P5
P6
P7
P8
P9

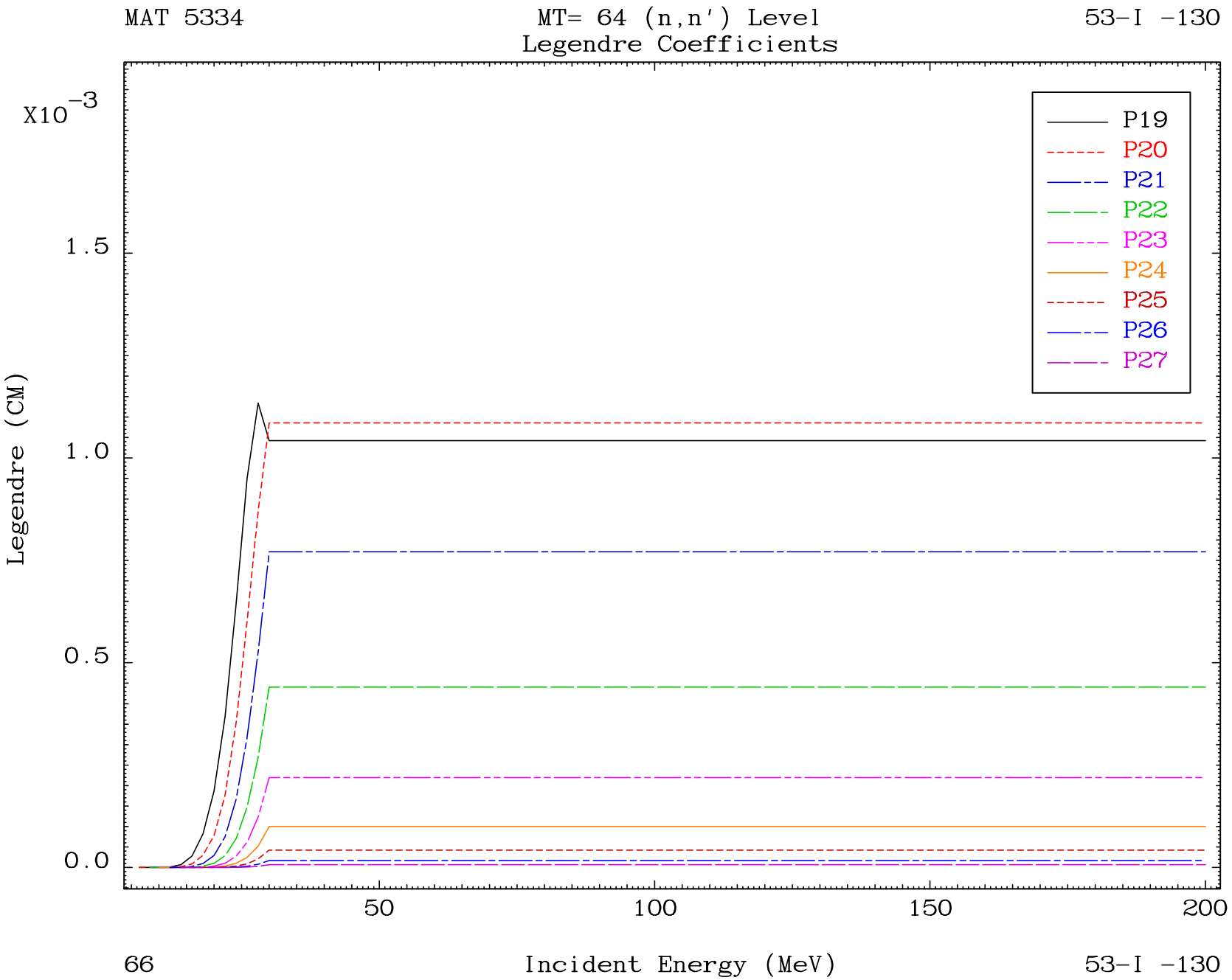

MAT 5334
MT= 63 (n,n') Level
Legendre Coefficients
53-I -130
0.010
0.005
0.000
-0.005
-0.010
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
61
Incident Energy (MeV)
53-I -130

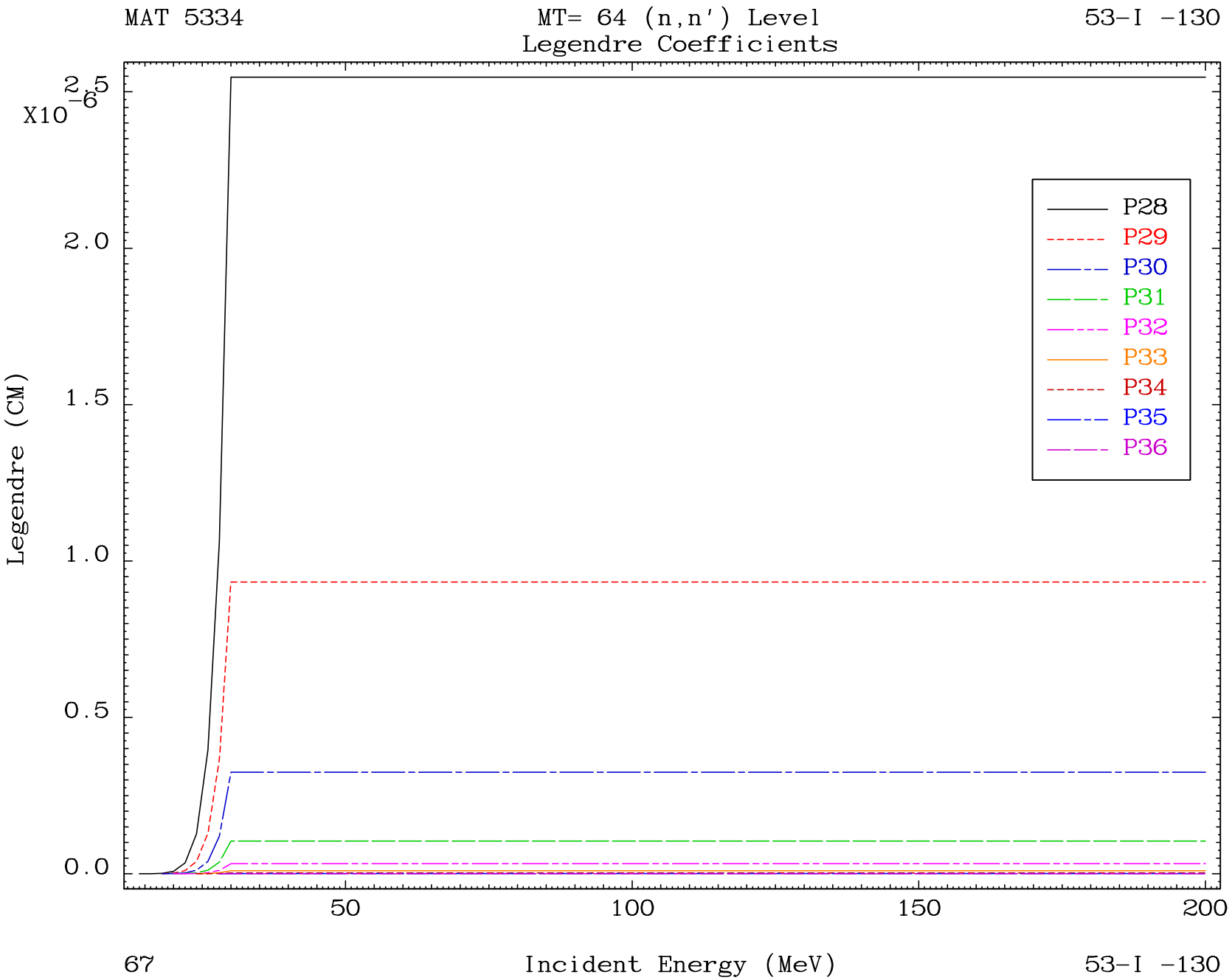

MAT 5334
MT= 63 (n,n') Level
Legendre Coefficients
53-I -130
X10^-4
1.5
1.0
0.5
0.0
-0.5
-1.0
-1.5
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
62
Incident Energy (MeV)
53-I -130

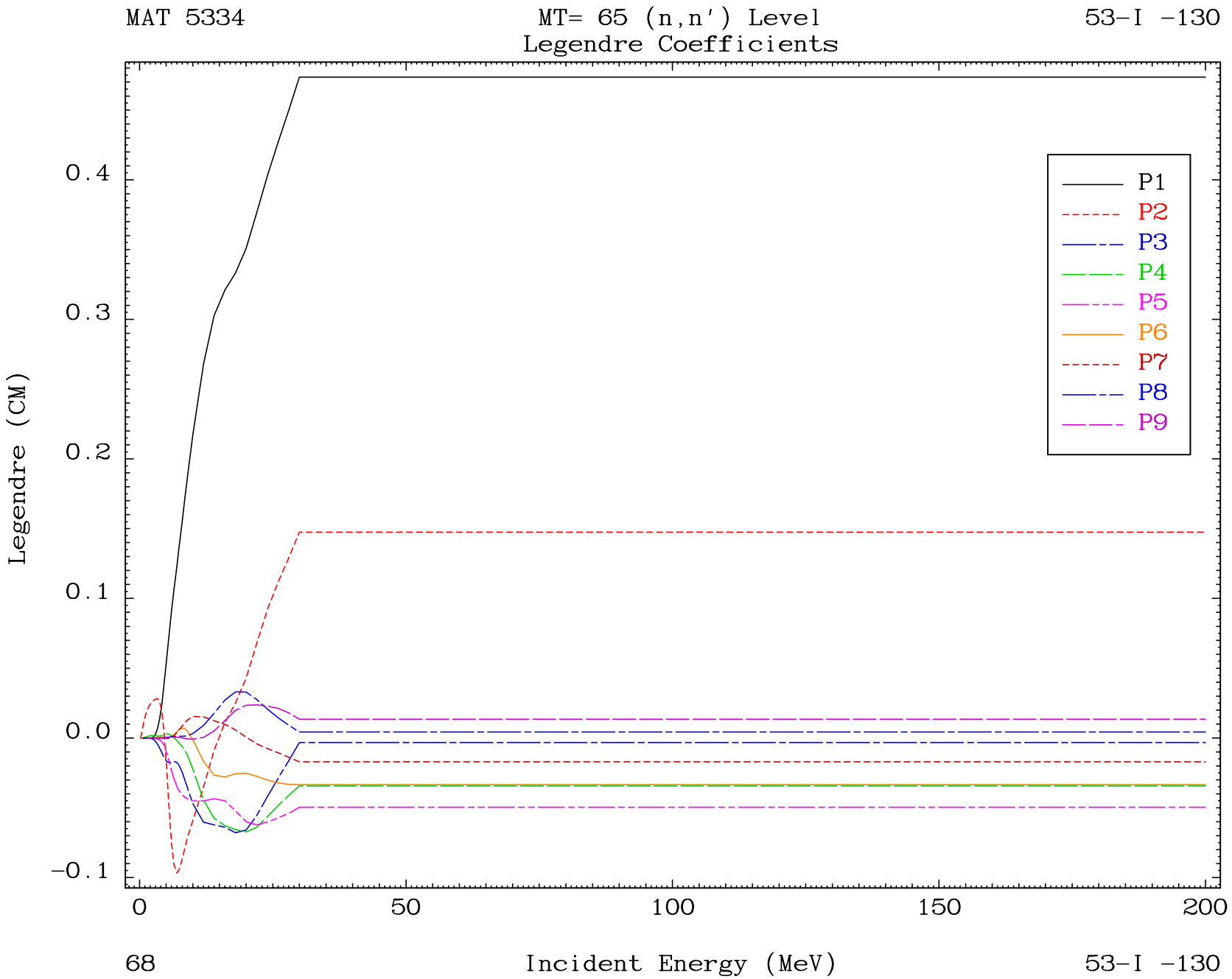

MAT 5334
MT= 63 (n,n') Level
Legendre Coefficients
53-I -130
0.0
X10^-6
-0.2
-0.4
-0.6
-0.8
-1.0
-1.2
Legendre (CM)
50
100
150
200
63
Incident Energy (MeV)
53-I -130
P28
P29
P30
P31
P32
P33
P34
P35
P36

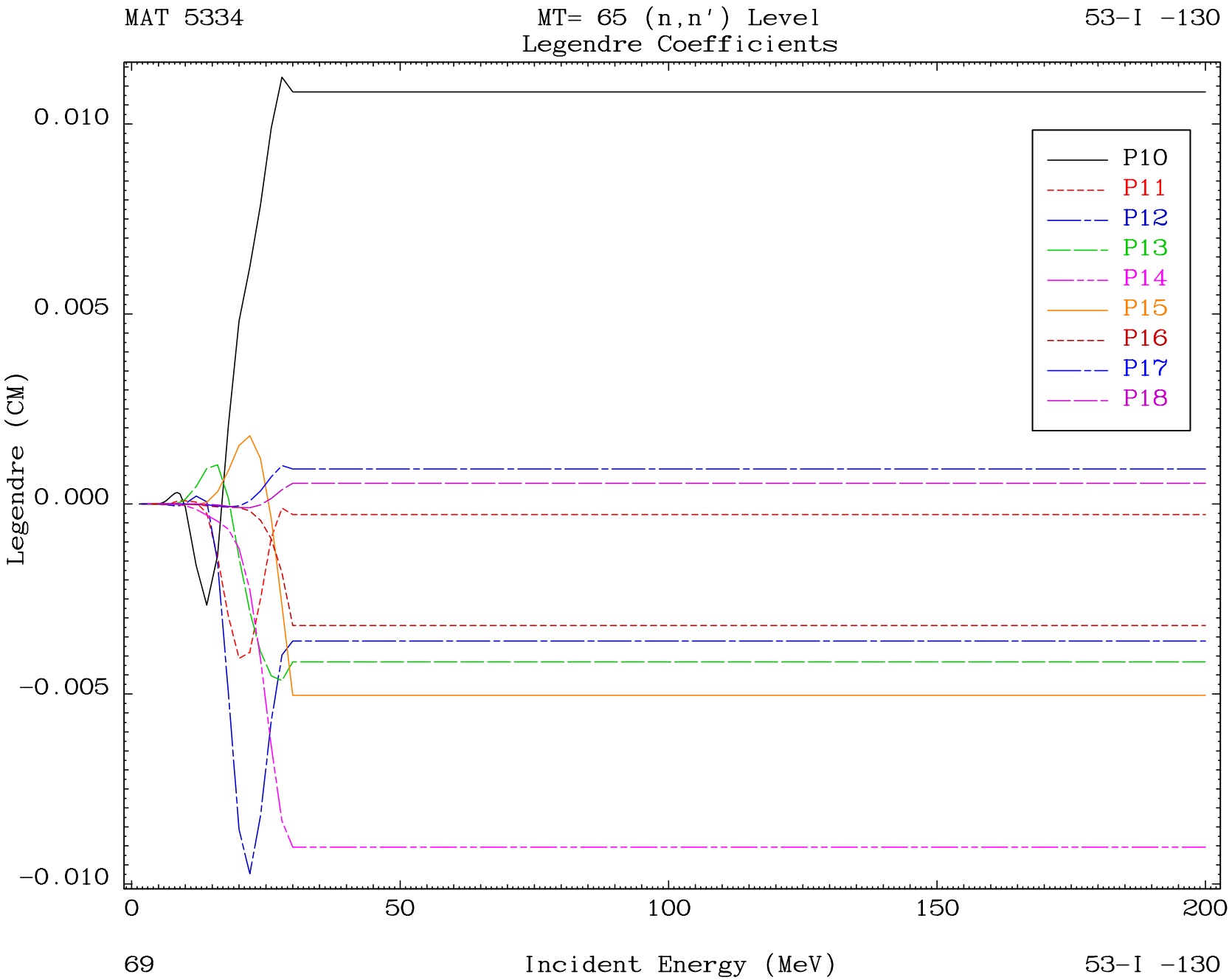

MAT 5334
MT= 64 (n,n') Level
Legendre Coefficients
53-I -130
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
64
Incident Energy (MeV)
53-I -130
P1
P2
P3
P4
P5
P6
P7
P8
P9

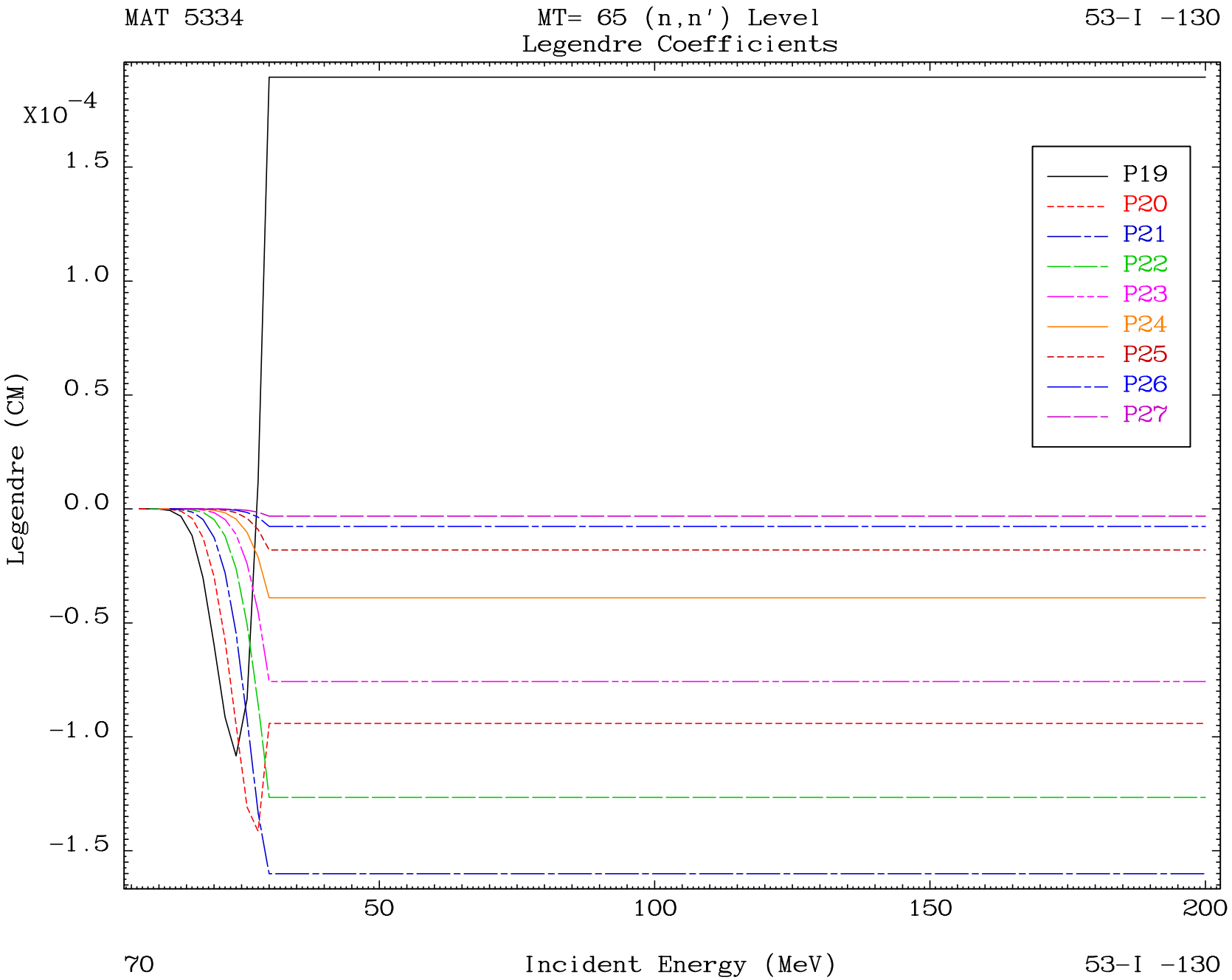

MAT 5334
MT= 64 (n,n') Level
Legendre Coefficients
53-I -130
0.04
0.03
0.02
0.01
0.00
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
65
Incident Energy (MeV)
53-I -130

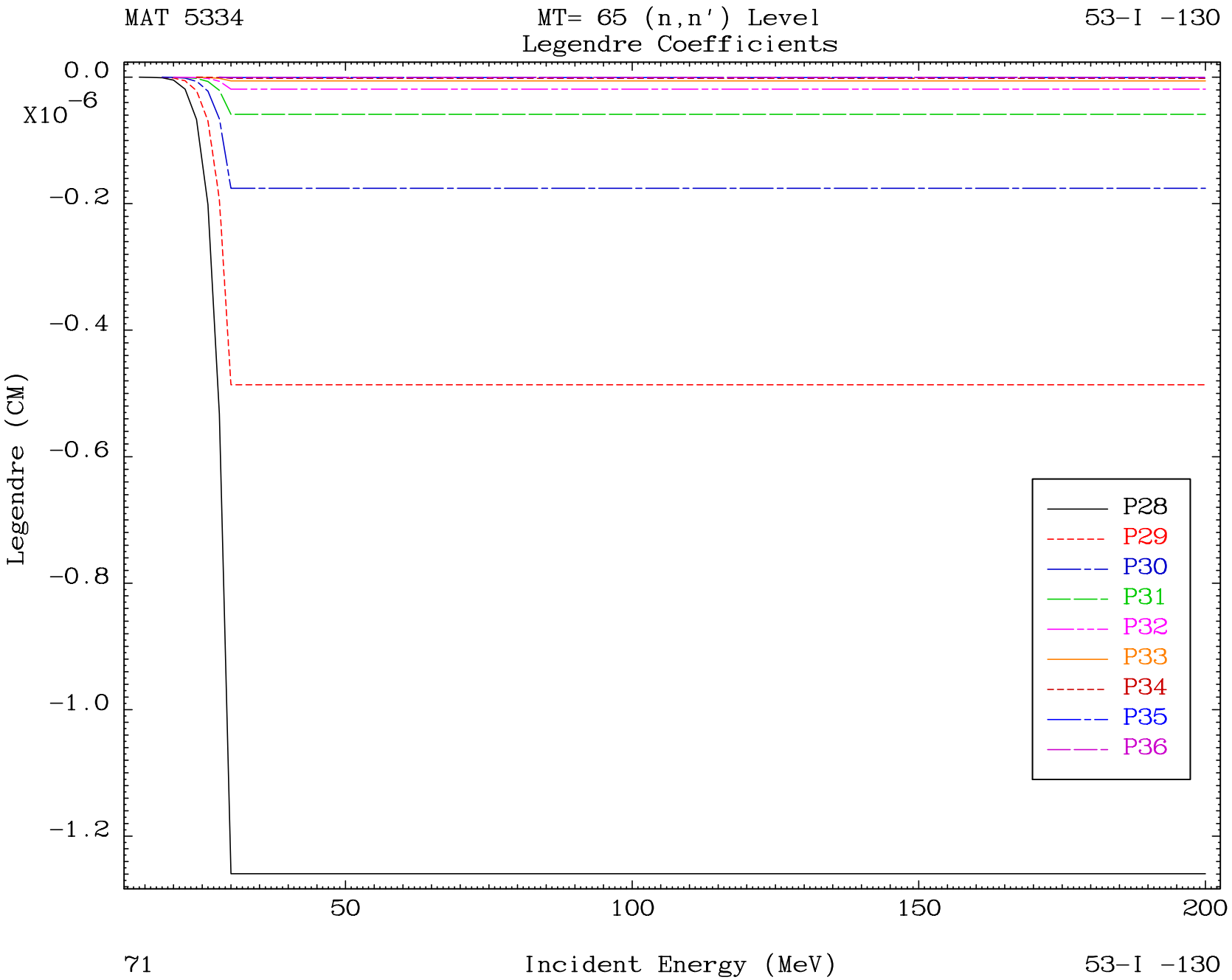

MAT 5334
MT= 64 (n,n') Level
Legendre Coefficients
53-I -130
X10-3
1.5
1.0
0.5
0.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
66
Incident Energy (MeV)
53-I -130

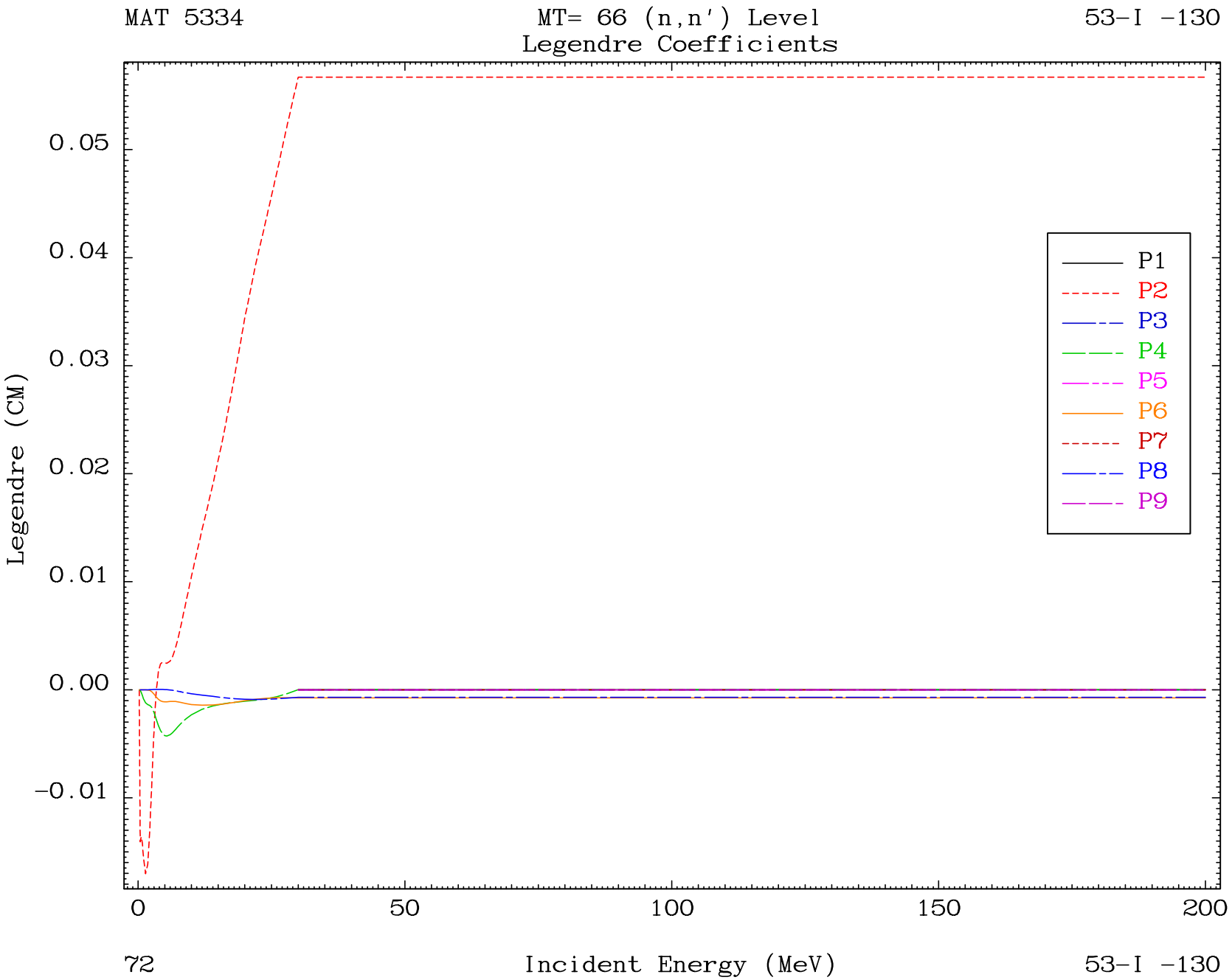

MAT 5334
MT= 64 (n,n') Level
Legendre Coefficients
53-I -130
X10-6
2.5
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
P35
P36
50
100
150
200
67
Incident Energy (MeV)
53-I -130

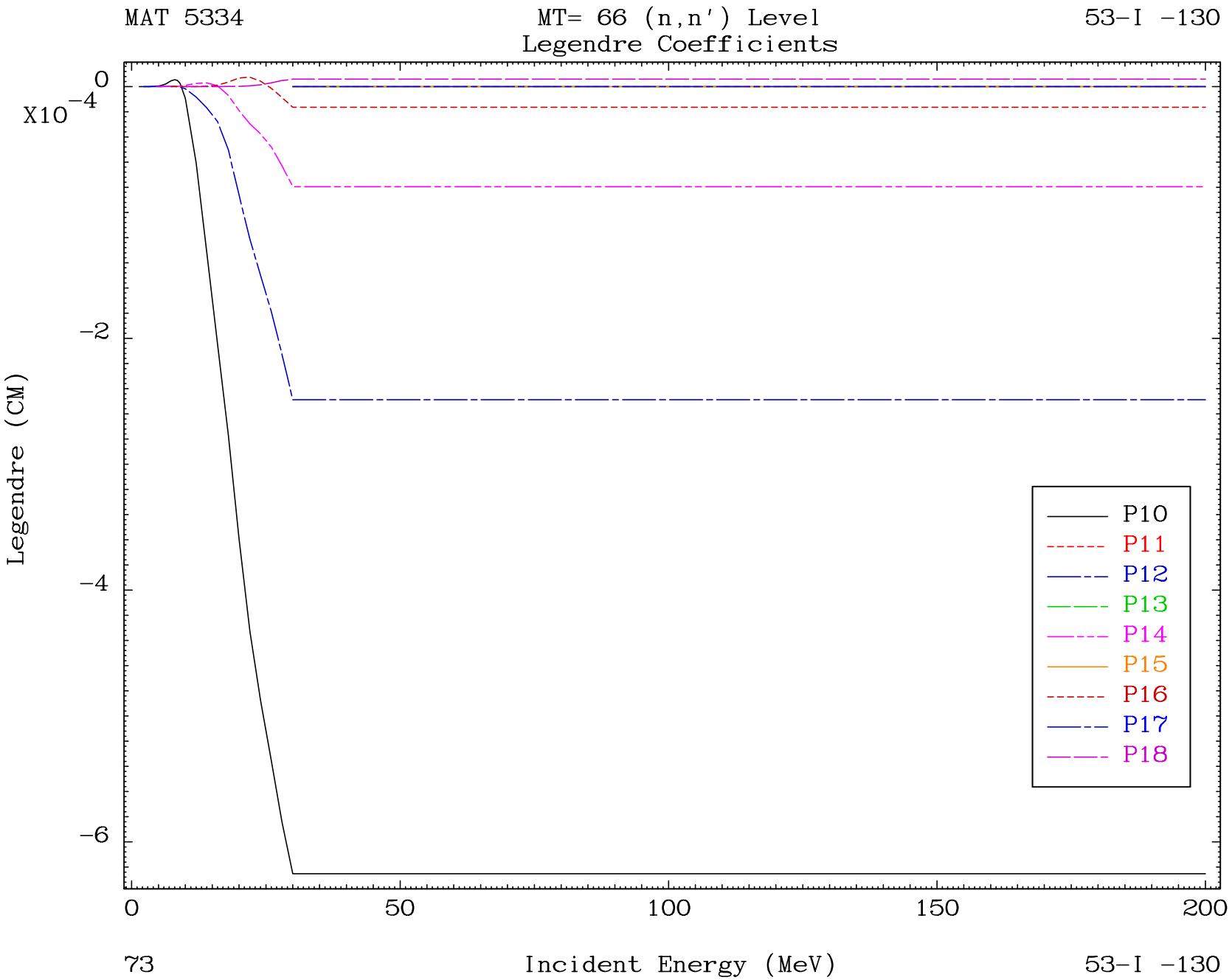

MAT 5334
MT= 65 (n,n') Level
Legendre Coefficients
53-I -130
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
-0.1
0
50
100
150
200
68
Incident Energy (MeV)
53-I -130
P1
P2
P3
P4
P5
P6
P7
P8
P9

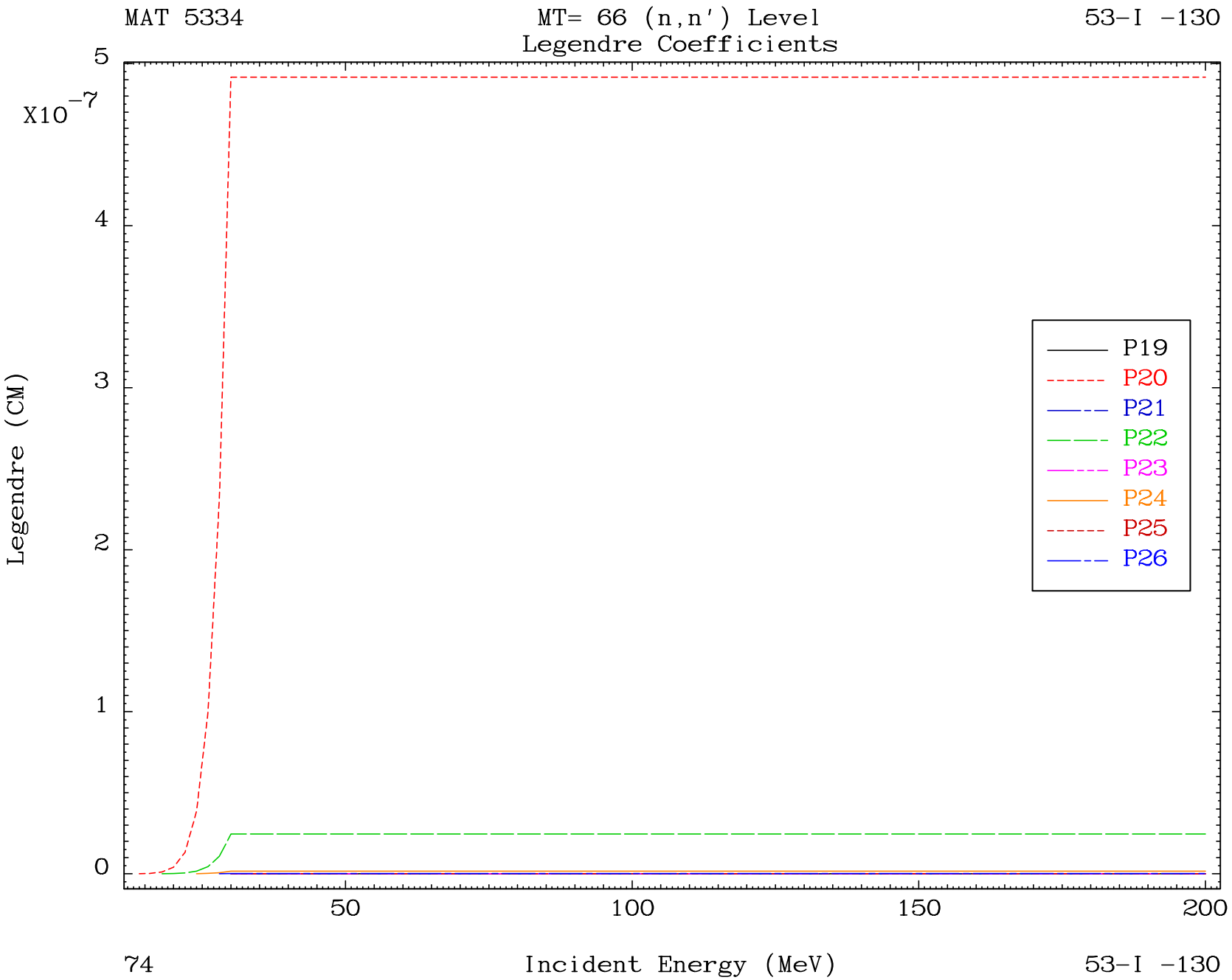

MAT 5334
MT= 65 (n,n') Level
Legendre Coefficients
53-I -130
0.010
0.005
0.000
-0.005
-0.010
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
69
Incident Energy (MeV)
53-I -130

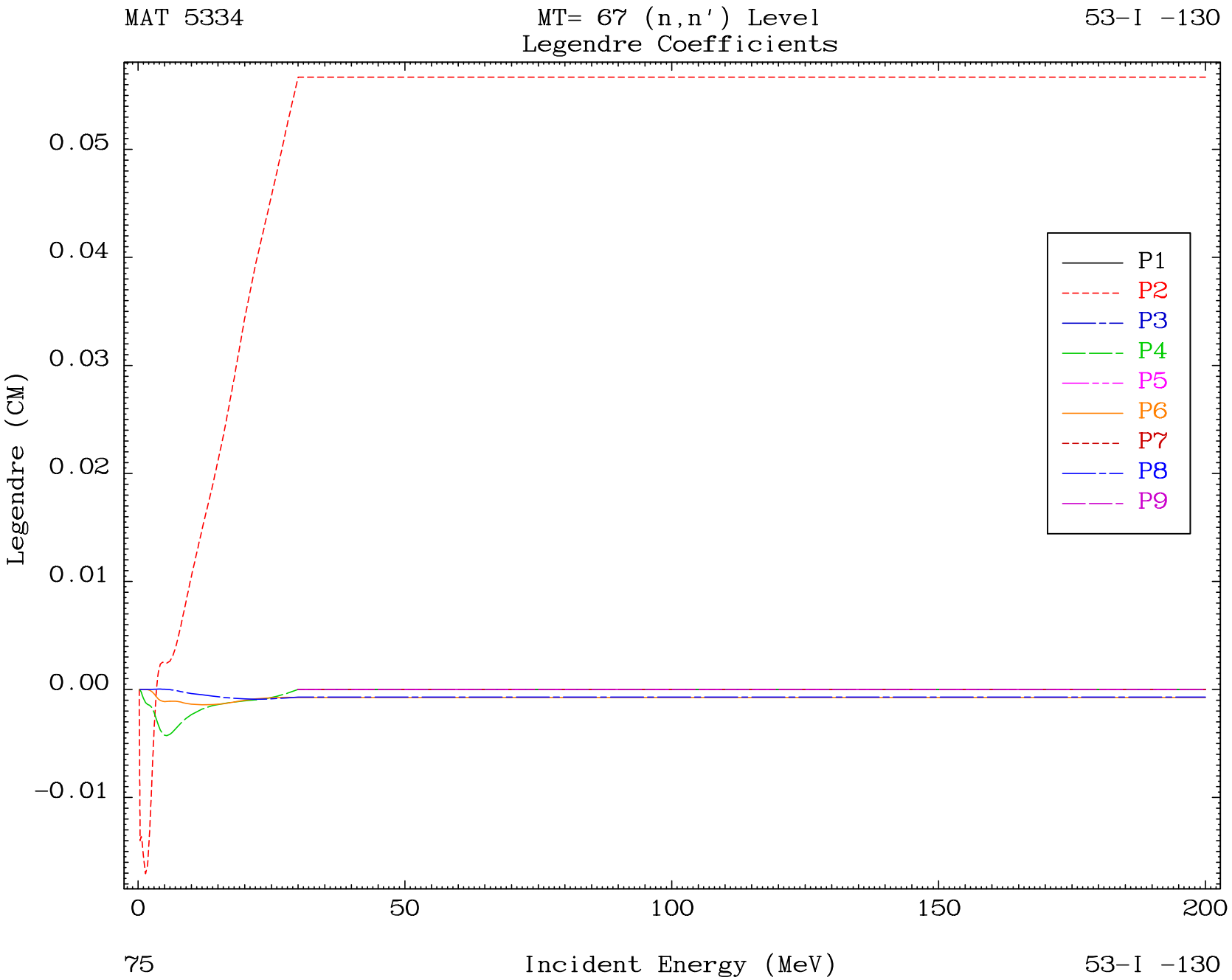

MAT 5334
MT= 65 (n,n') Level
Legendre Coefficients
53-I -130
X10-4
1.5
1.0
0.5
0.0
-0.5
-1.0
-1.5
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
70
Incident Energy (MeV)
53-I -130

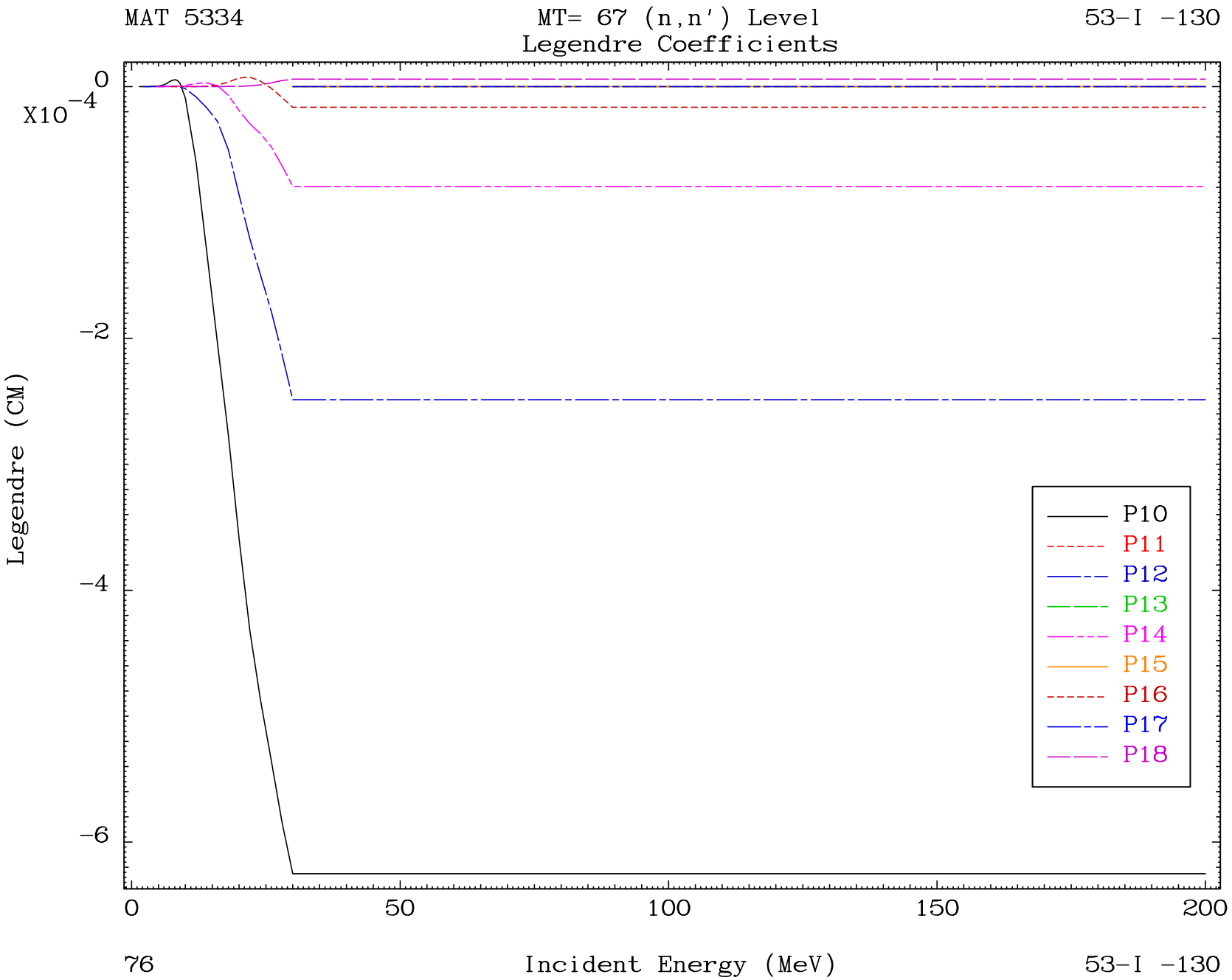

MAT 5334
MT= 65 (n,n') Level
Legendre Coefficients
53-I -130
0.0
X10^-6
-0.2
-0.4
-0.6
-0.8
-1.0
-1.2
Legendre (CM)
50
100
150
200
71
Incident Energy (MeV)
53-I -130
P28
P29
P30
P31
P32
P33
P34
P35
P36

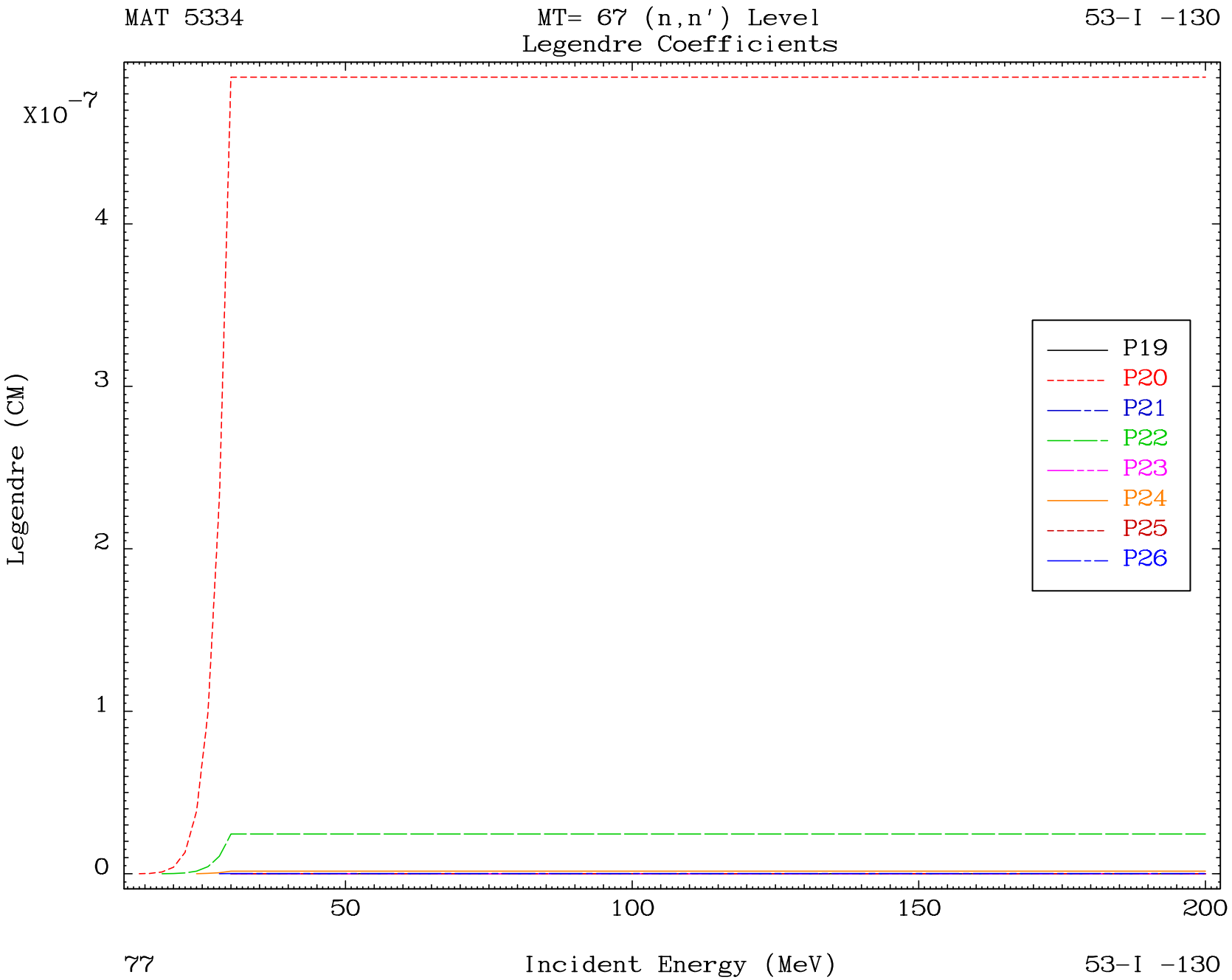

MAT 5334
MT= 66 (n,n') Level
Legendre Coefficients
53-I -130
0.05
0.04
0.03
0.02
0.01
0.00
-0.01
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
72
Incident Energy (MeV)
53-I -130

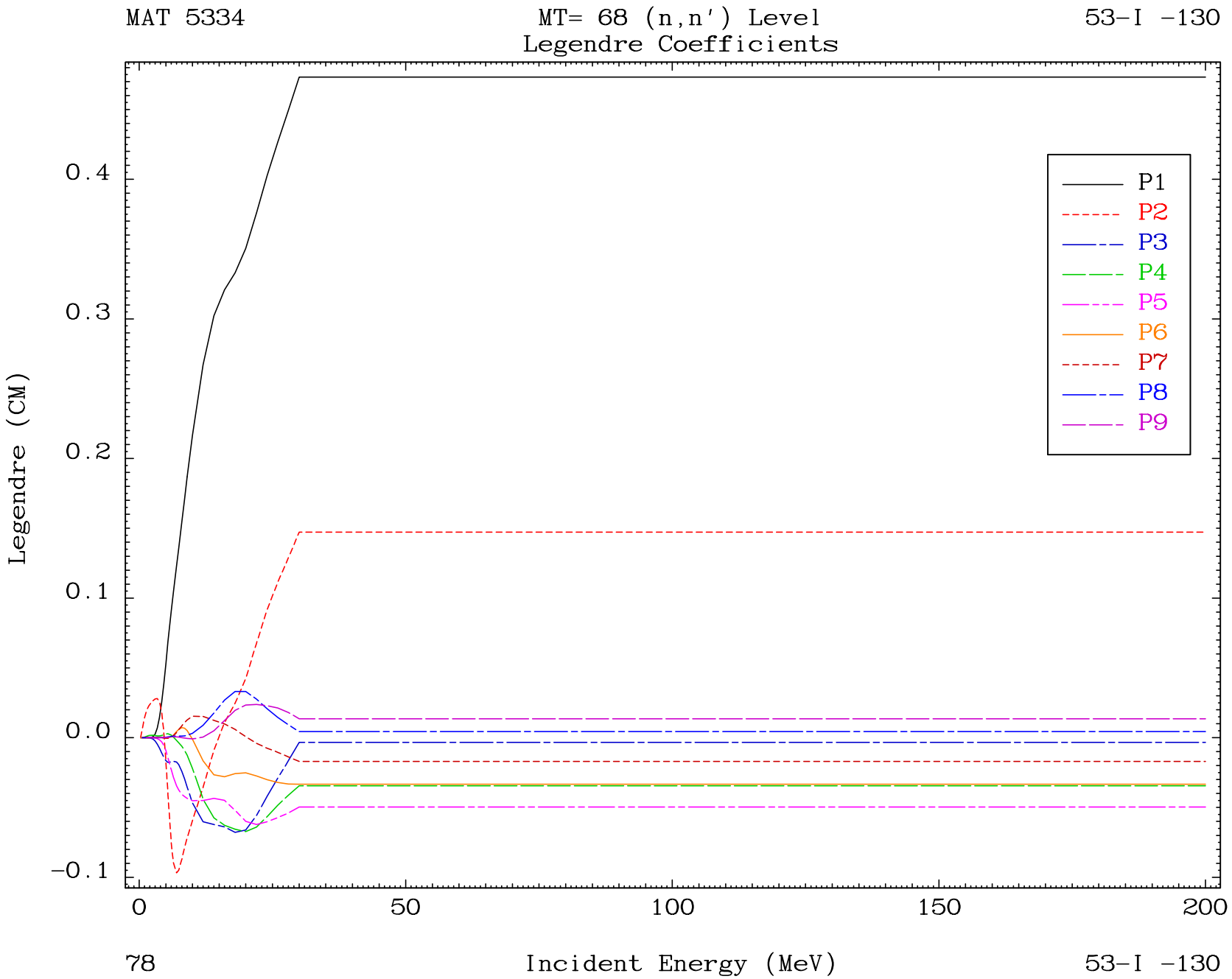

MAT 5334
MT= 66 (n,n') Level
Legendre Coefficients
53-I -130
X10^-4
0
-2
-4
-6
Legendre (CM)
0
50
100
150
200
Incident Energy (MeV)
73
53-I -130
P10
P11
P12
P13
P14
P15
P16
P17
P18

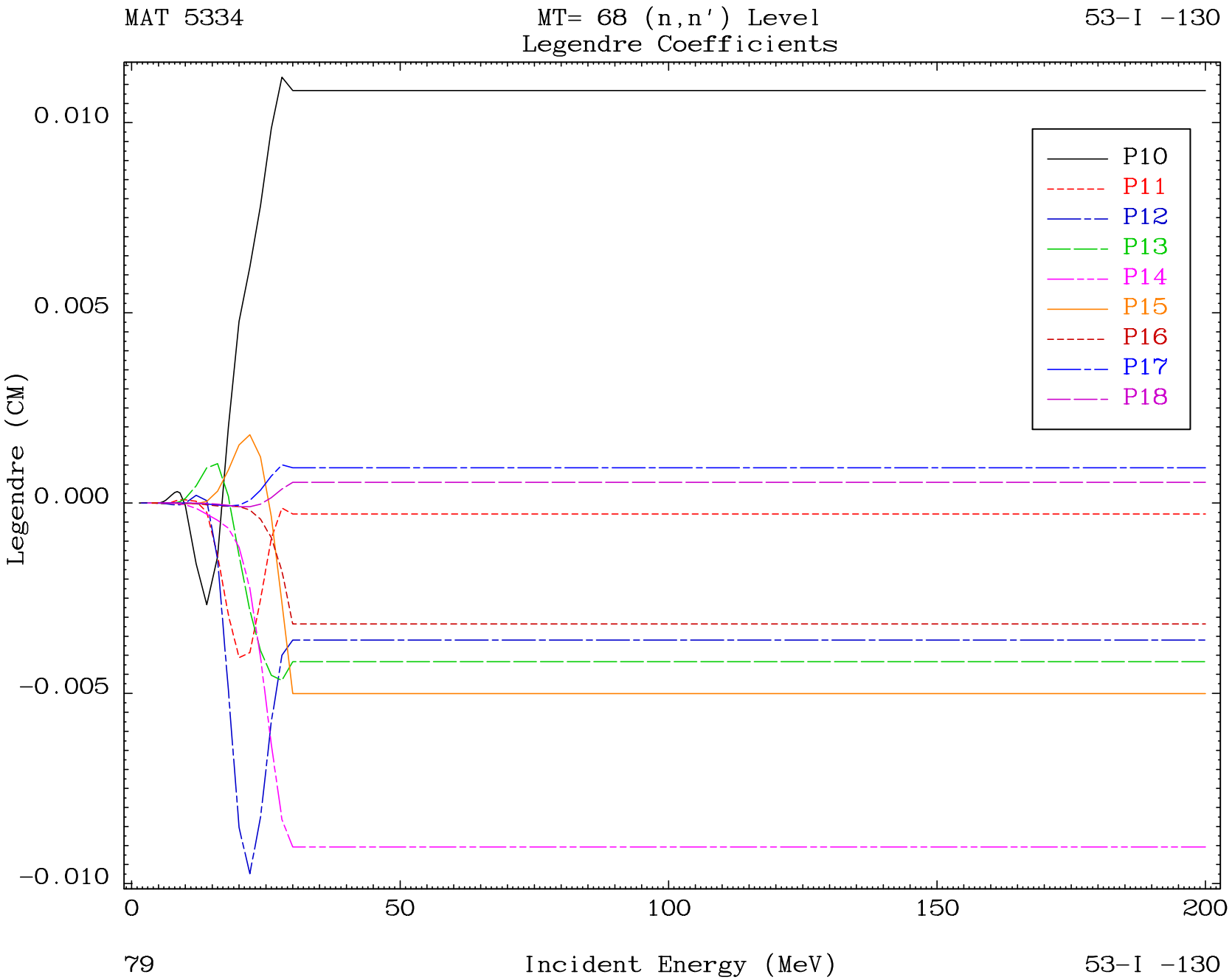

MAT 5334
MT= 66 (n,n') Level
Legendre Coefficients
53-I -130
X10-7
5
4
3
2
1
0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
50
100
150
200
74
Incident Energy (MeV)
53-I -130

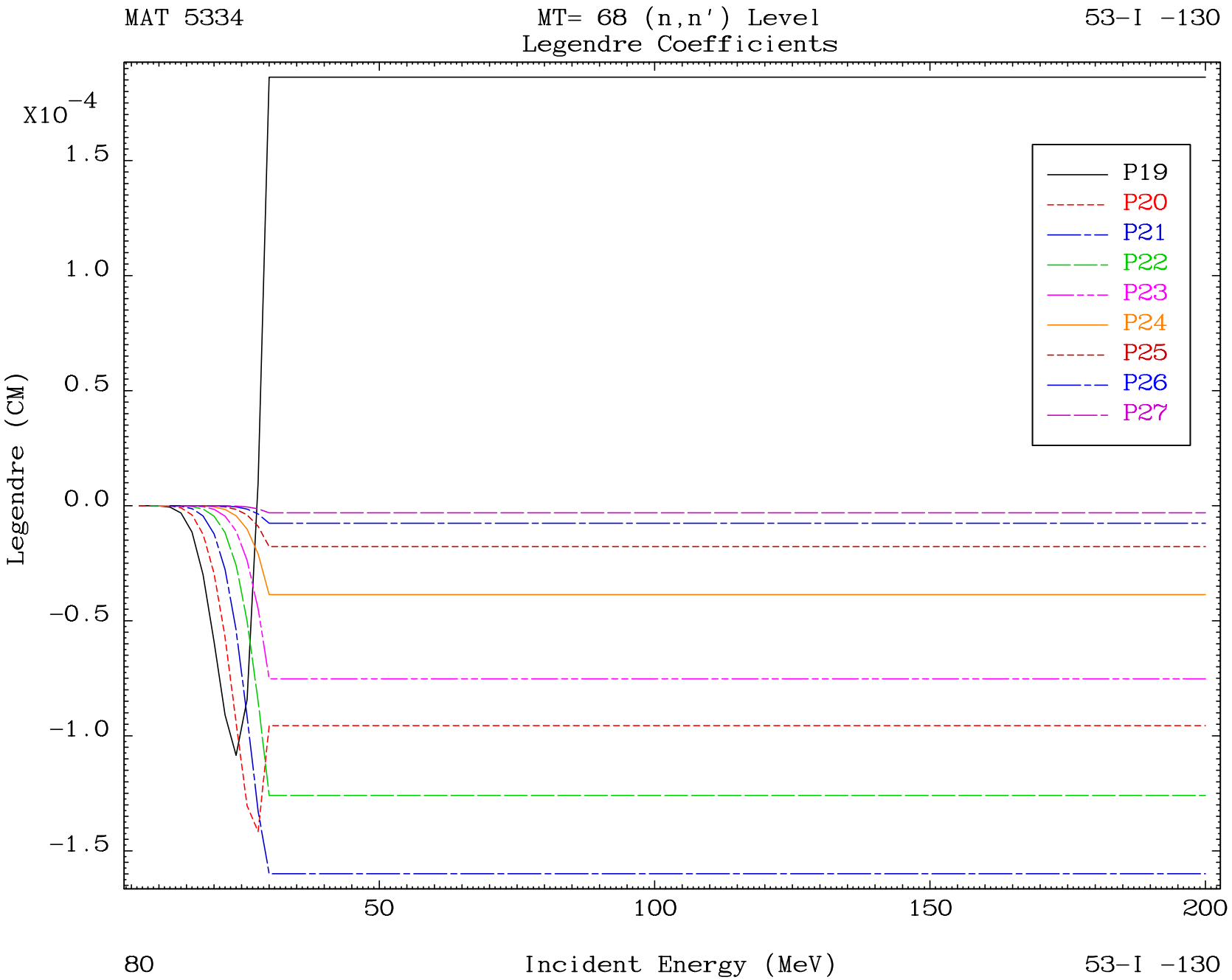

MAT 5334
MT= 67 (n,n') Level
Legendre Coefficients
53-I -130
0.05
0.04
0.03
0.02
0.01
0.00
-0.01
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
75
Incident Energy (MeV)
53-I -130

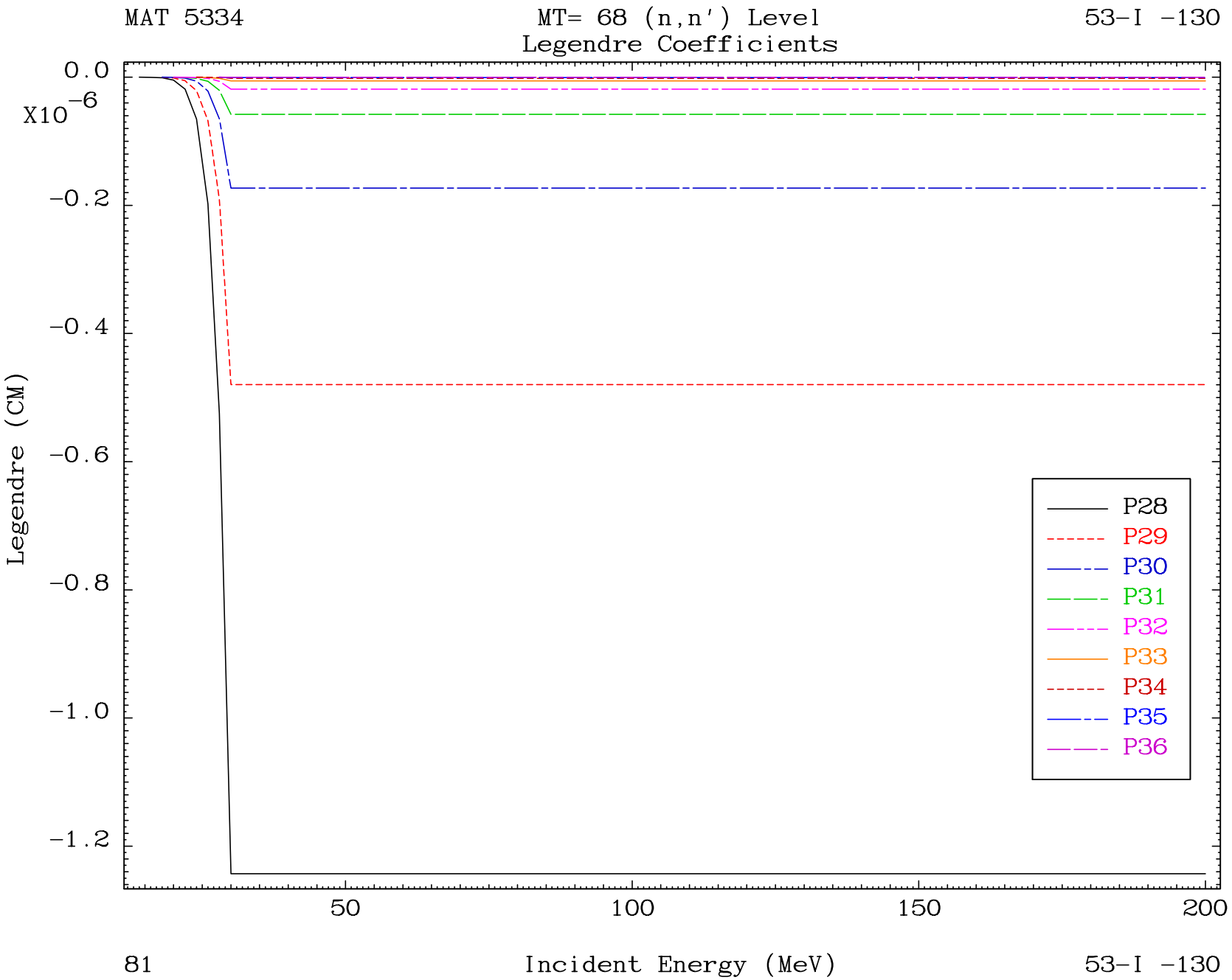

MAT 5334
MT= 67 (n,n') Level
Legendre Coefficients
53-I -130
X10^-4
0
-2
-4
-6
Legendre (CM)
0
50
100
150
200
Incident Energy (MeV)
P10
P11
P12
P13
P14
P15
P16
P17
P18
76
53-I -130

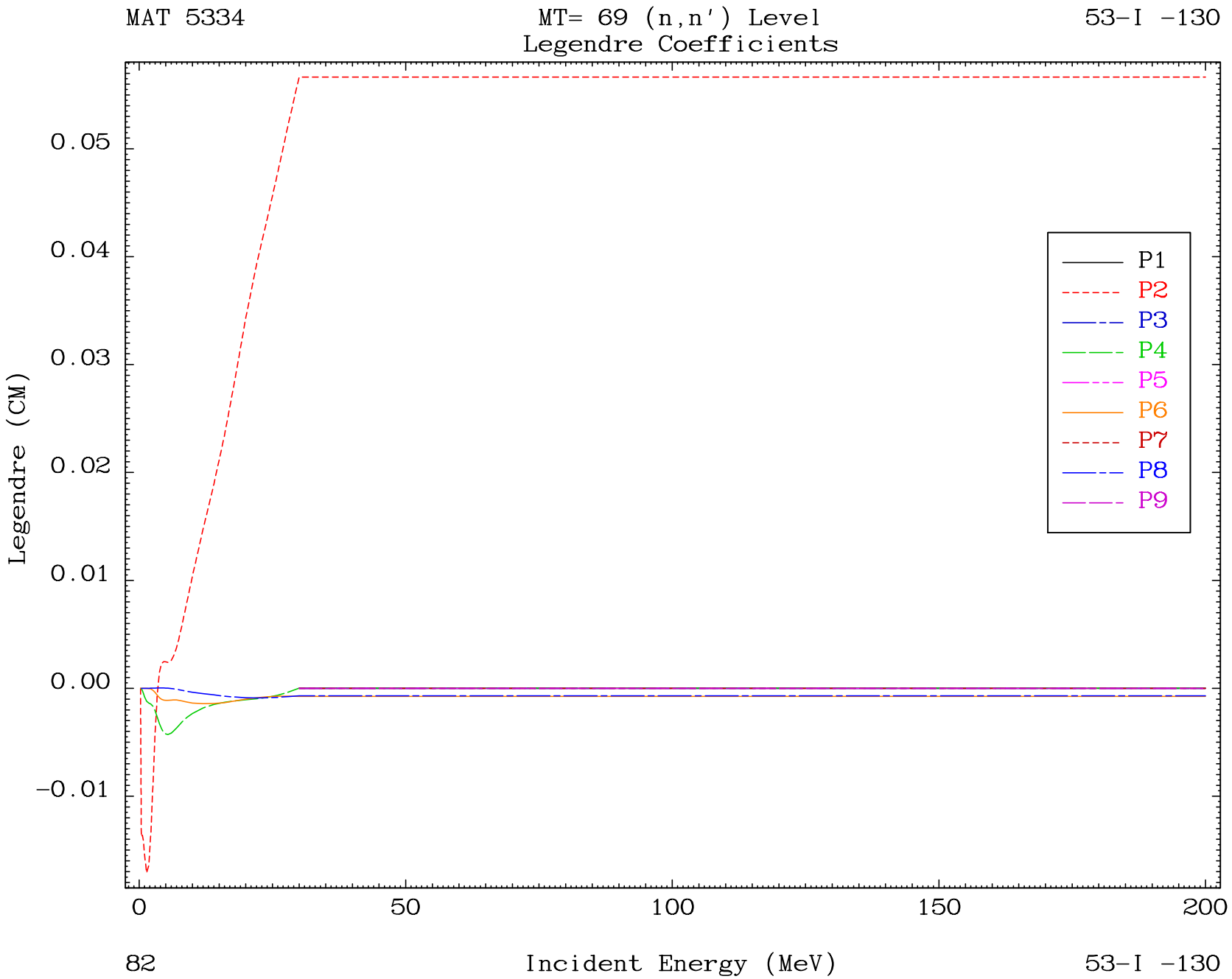

MAT 5334
MT= 67 (n,n') Level
Legendre Coefficients
53-I -130
X10-7
4
3
2
1
0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
50
100
150
200
77
Incident Energy (MeV)
53-I -130

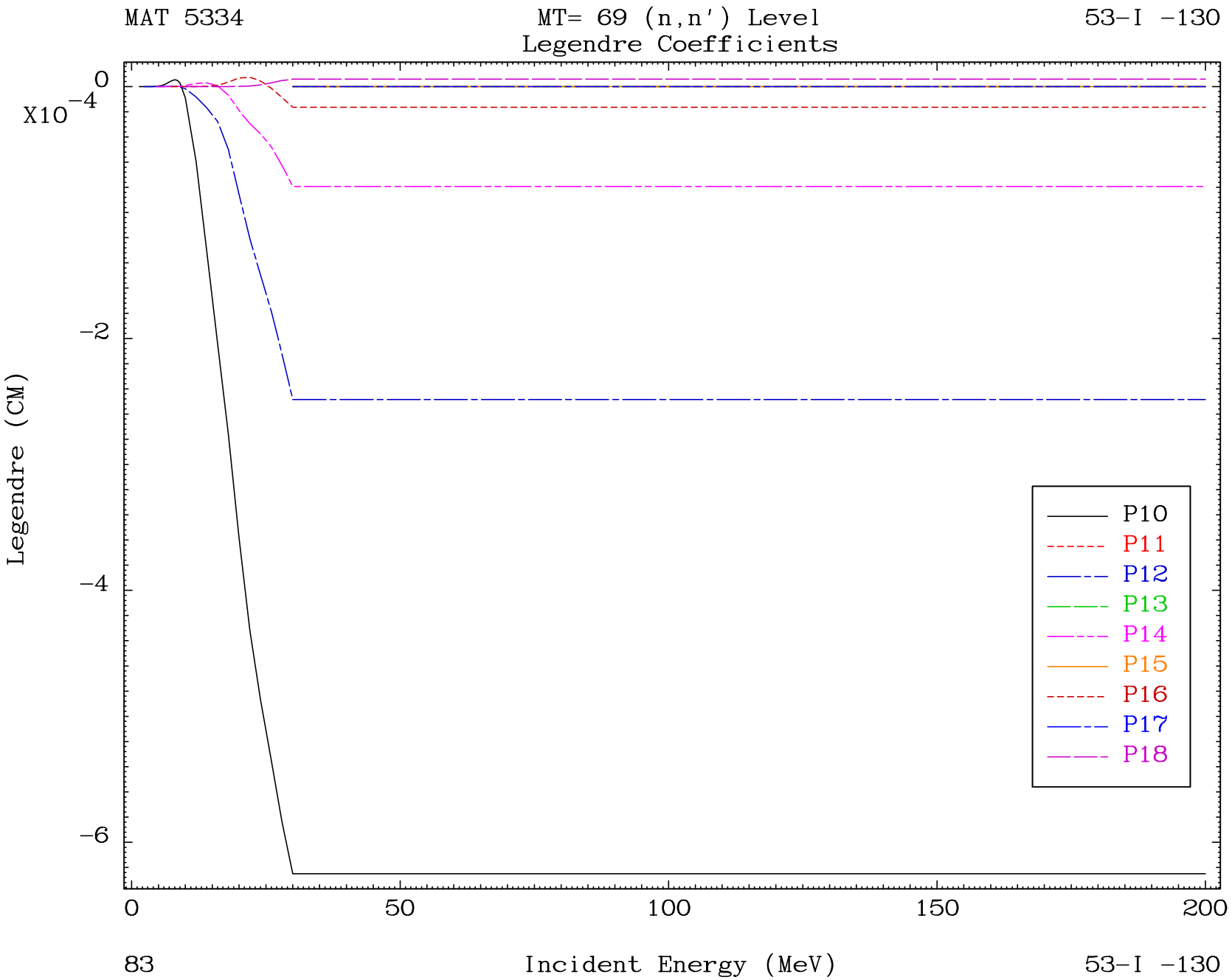

MAT 5334
MT= 68 (n,n') Level
Legendre Coefficients
53-I -130
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
-0.1
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
78
Incident Energy (MeV)
53-I -130

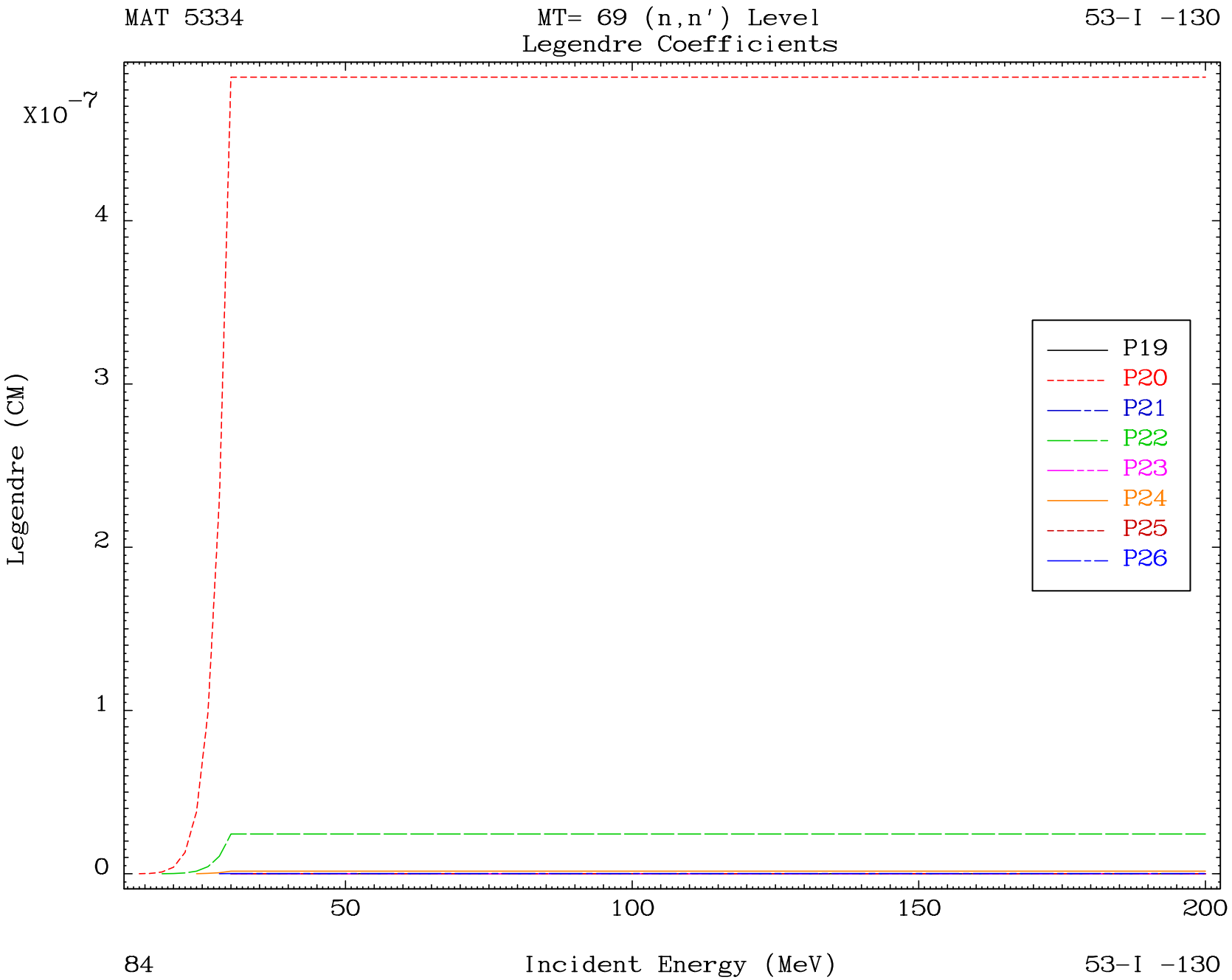

MAT 5334
MT= 68 (n,n') Level
Legendre Coefficients
53-I -130
0.010
0.005
0.000
-0.005
-0.010
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
79
Incident Energy (MeV)
53-I -130

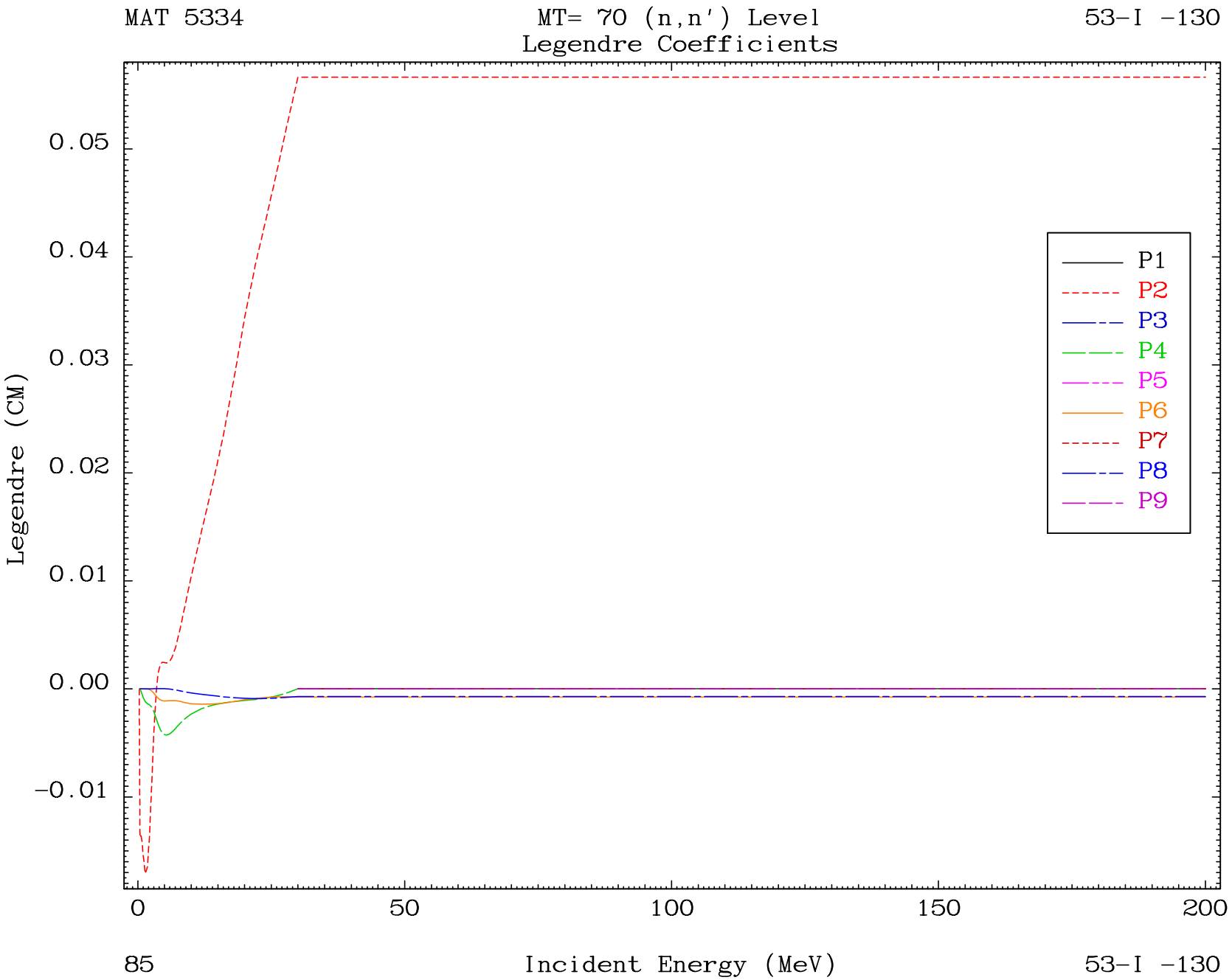

MAT 5334
MT= 68 (n,n') Level
Legendre Coefficients
53-I -130
X10^-4
1.5
1.0
0.5
0.0
-0.5
-1.0
-1.5
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
80
Incident Energy (MeV)
53-I -130

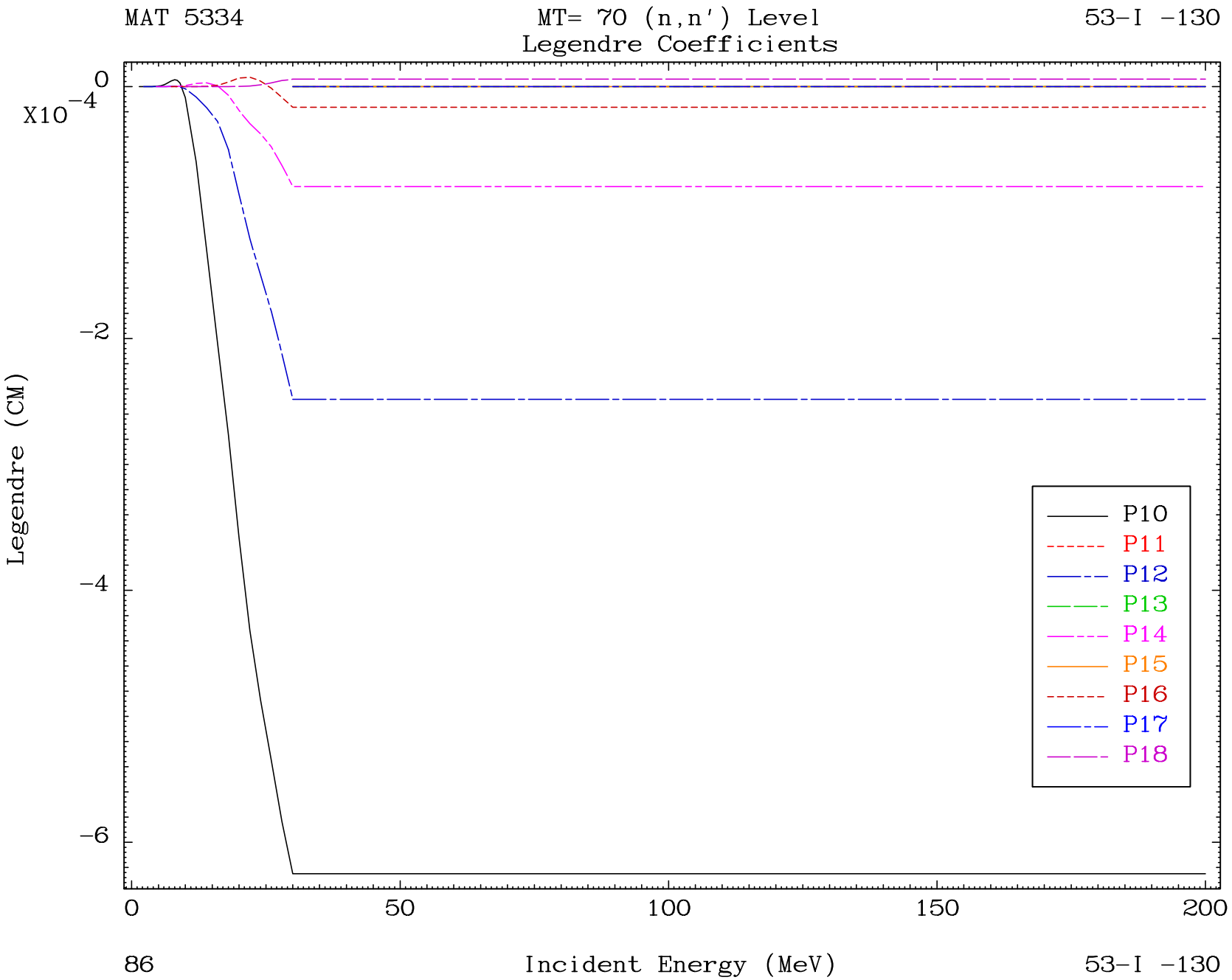

MAT 5334
MT= 68 (n,n') Level
Legendre Coefficients
53-I -130
0.0
X10^-6
-0.2
-0.4
-0.6
-0.8
-1.0
-1.2
Legendre (CM)
50
100
150
200
81
Incident Energy (MeV)
53-I -130
P28
P29
P30
P31
P32
P33
P34
P35
P36

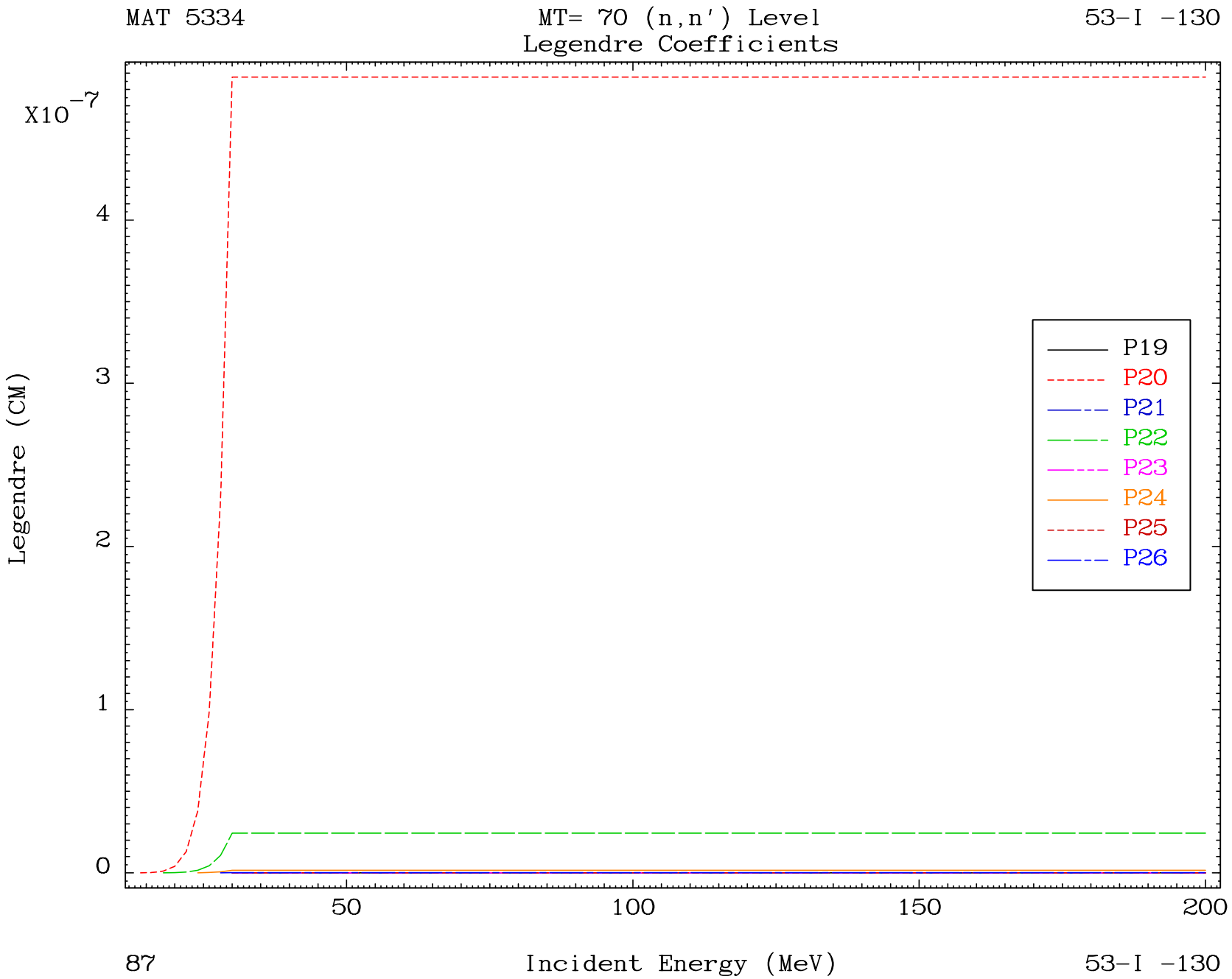

MAT 5334
MT= 69 (n,n') Level
Legendre Coefficients
53-I -130
0.05
0.04
0.03
0.02
0.01
0.00
-0.01
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
82
Incident Energy (MeV)
53-I -130

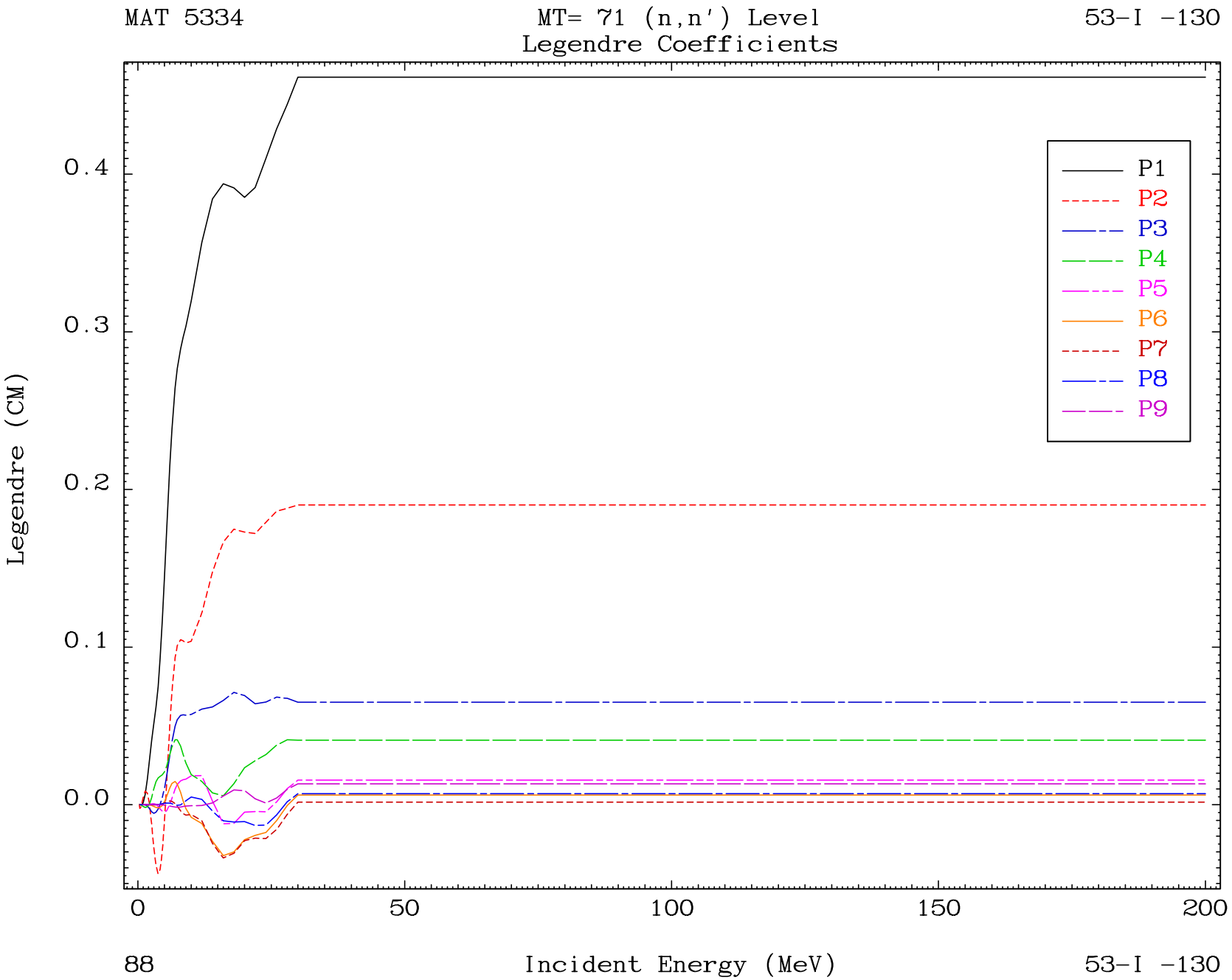

MAT 5334
MT= 69 (n,n') Level
Legendre Coefficients
53-I -130
X10^-4
0
-2
-4
-6
Legendre (CM)
0
50
100
150
200
Incident Energy (MeV)
83
53-I -130
P10
P11
P12
P13
P14
P15
P16
P17
P18

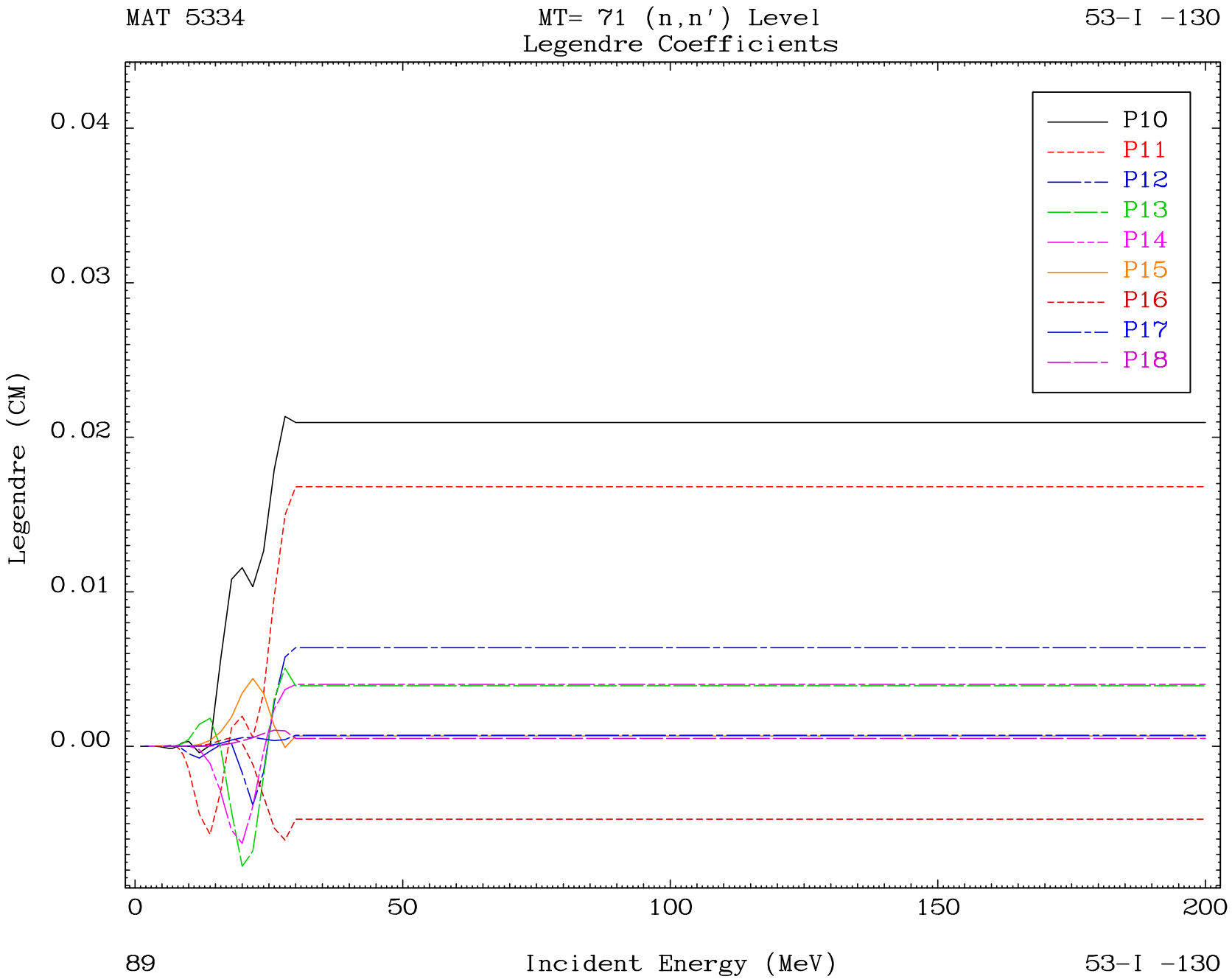

MAT 5334
MT= 69 (n,n') Level
Legendre Coefficients
53-I -130
X10-7
4
3
2
1
0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
50
100
150
200
84
Incident Energy (MeV)
53-I -130

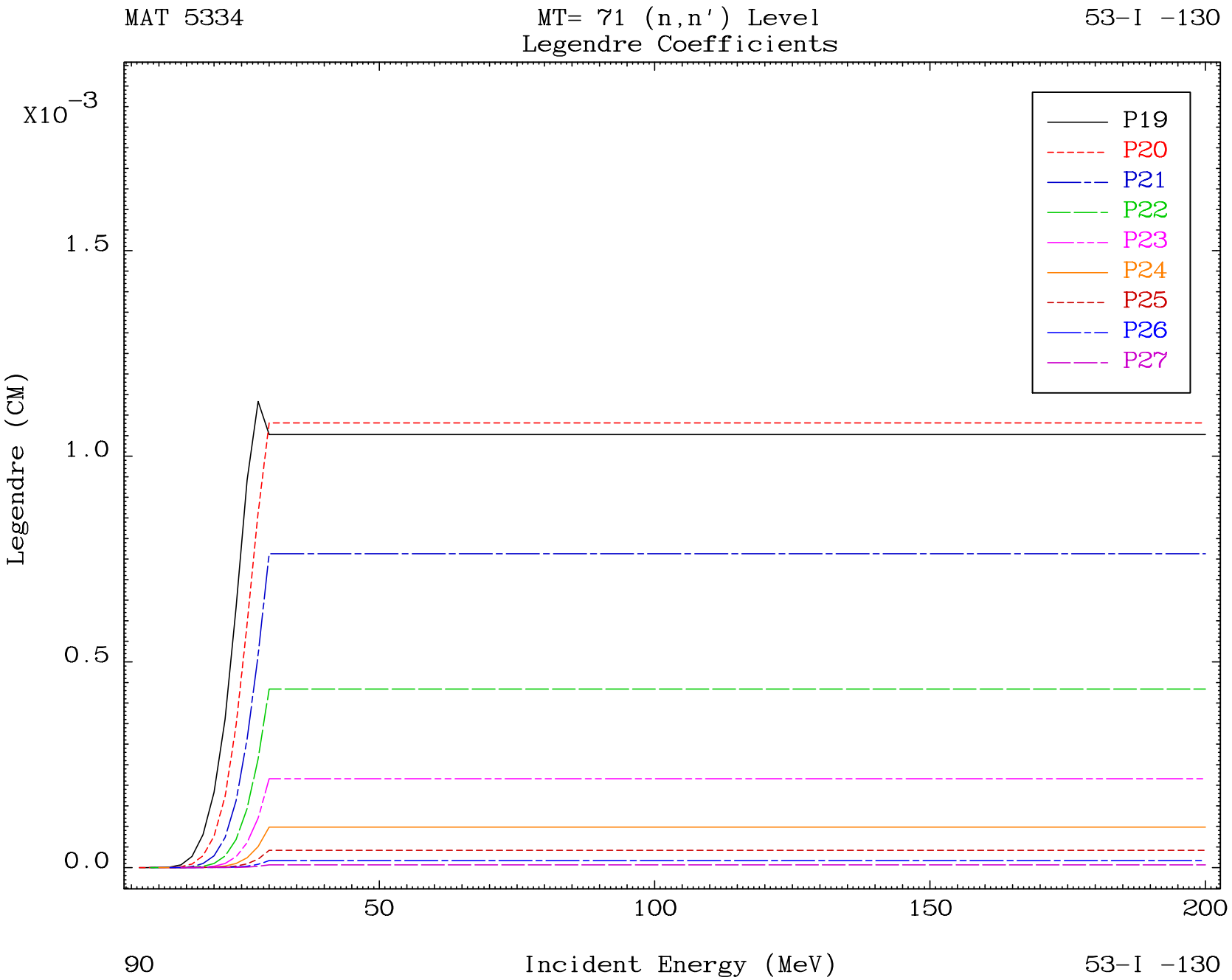

MAT 5334
MT= 70 (n,n') Level
Legendre Coefficients
53-I -130
0.05
0.04
0.03
0.02
0.01
0.00
-0.01
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
85
Incident Energy (MeV)
53-I -130

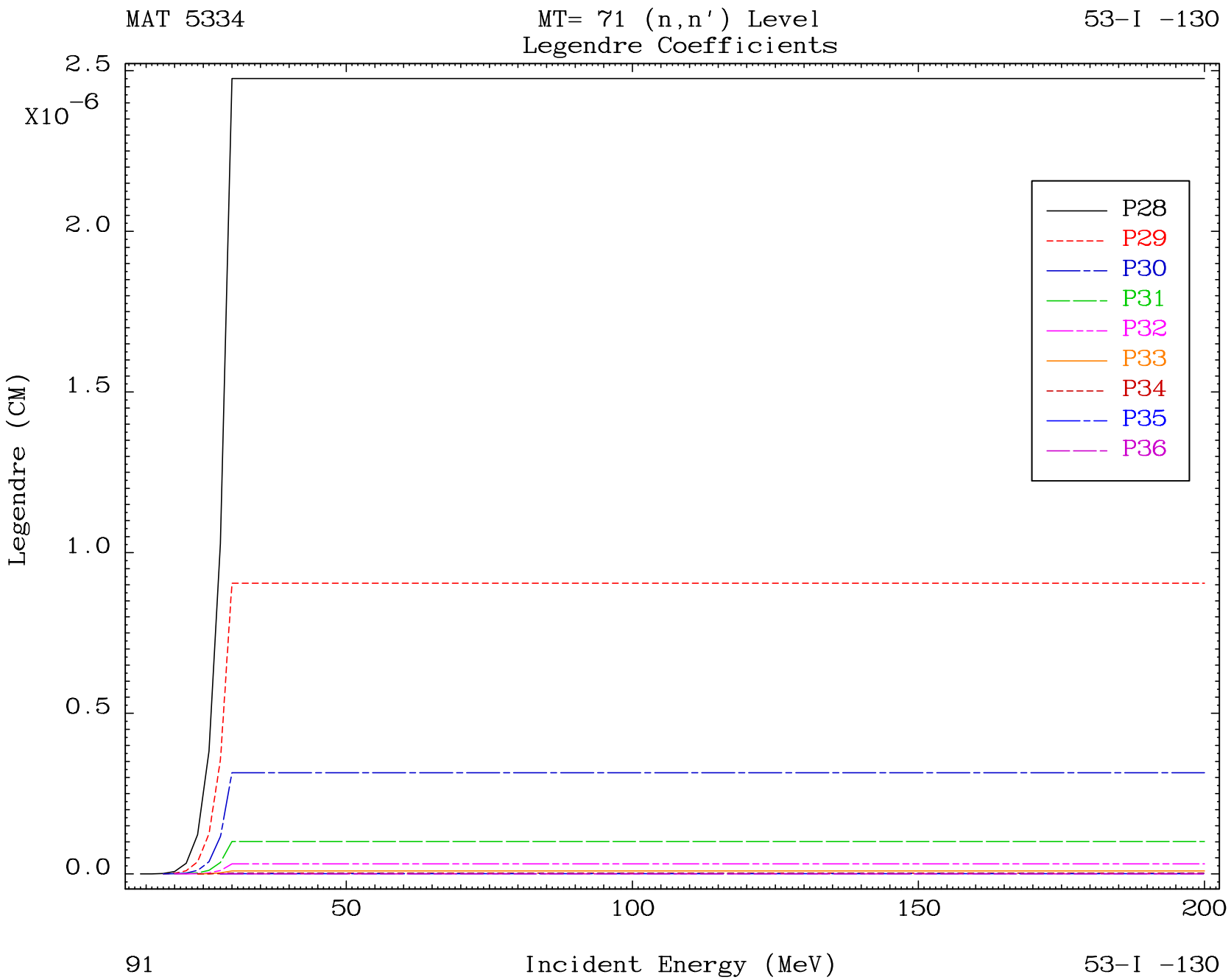

MAT 5334
MT= 70 (n,n') Level
Legendre Coefficients
53-I -130
X10^-4
0
-2
-4
-6
Legendre (CM)
0
50
100
150
200
Incident Energy (MeV)
86
53-I -130
P10
P11
P12
P13
P14
P15
P16
P17
P18

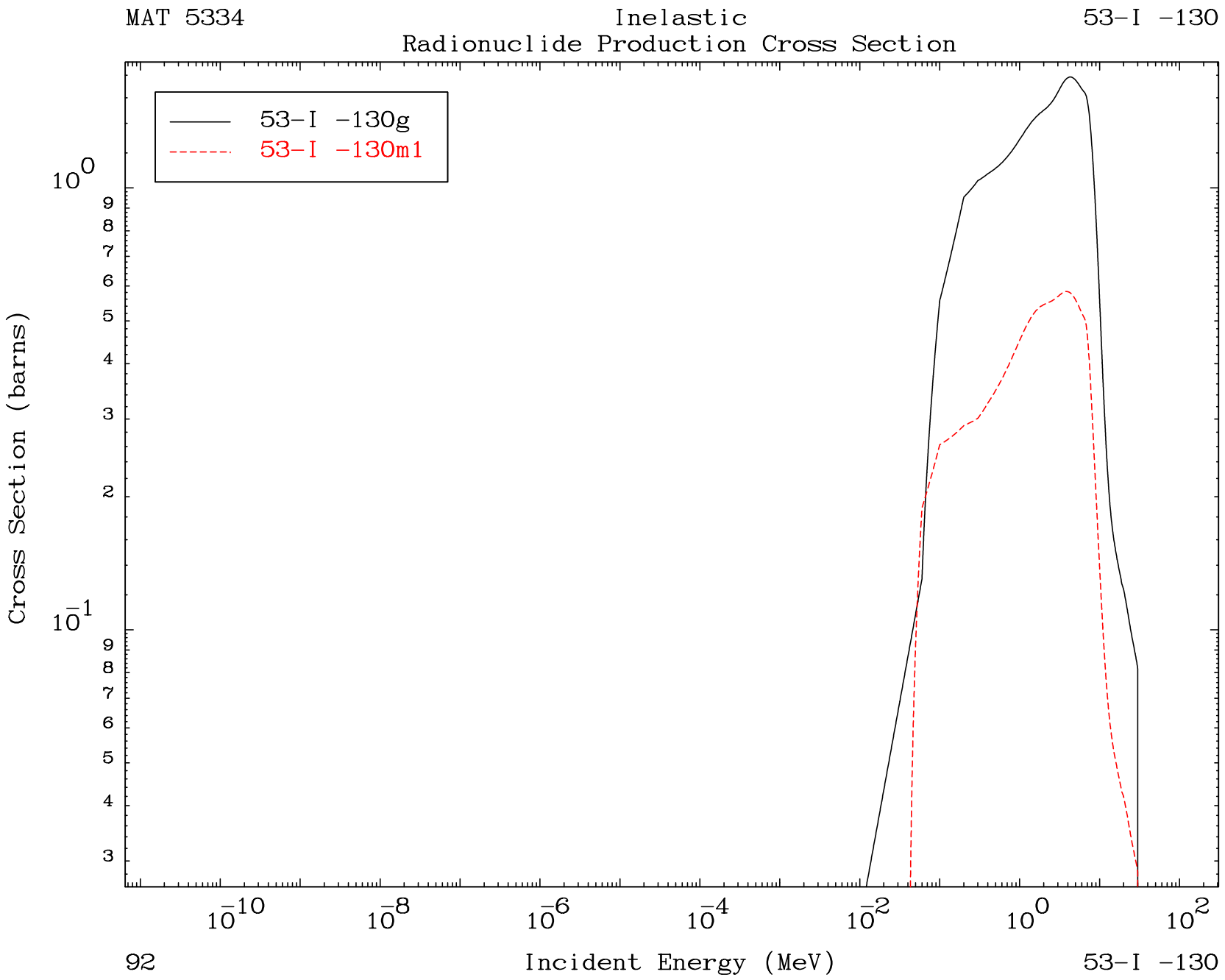

MAT 5334
MT= 70 (n,n') Level
Legendre Coefficients
53-I -130
X10-7
4
3
2
1
0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
50
100
150
200
87
Incident Energy (MeV)
53-I -130

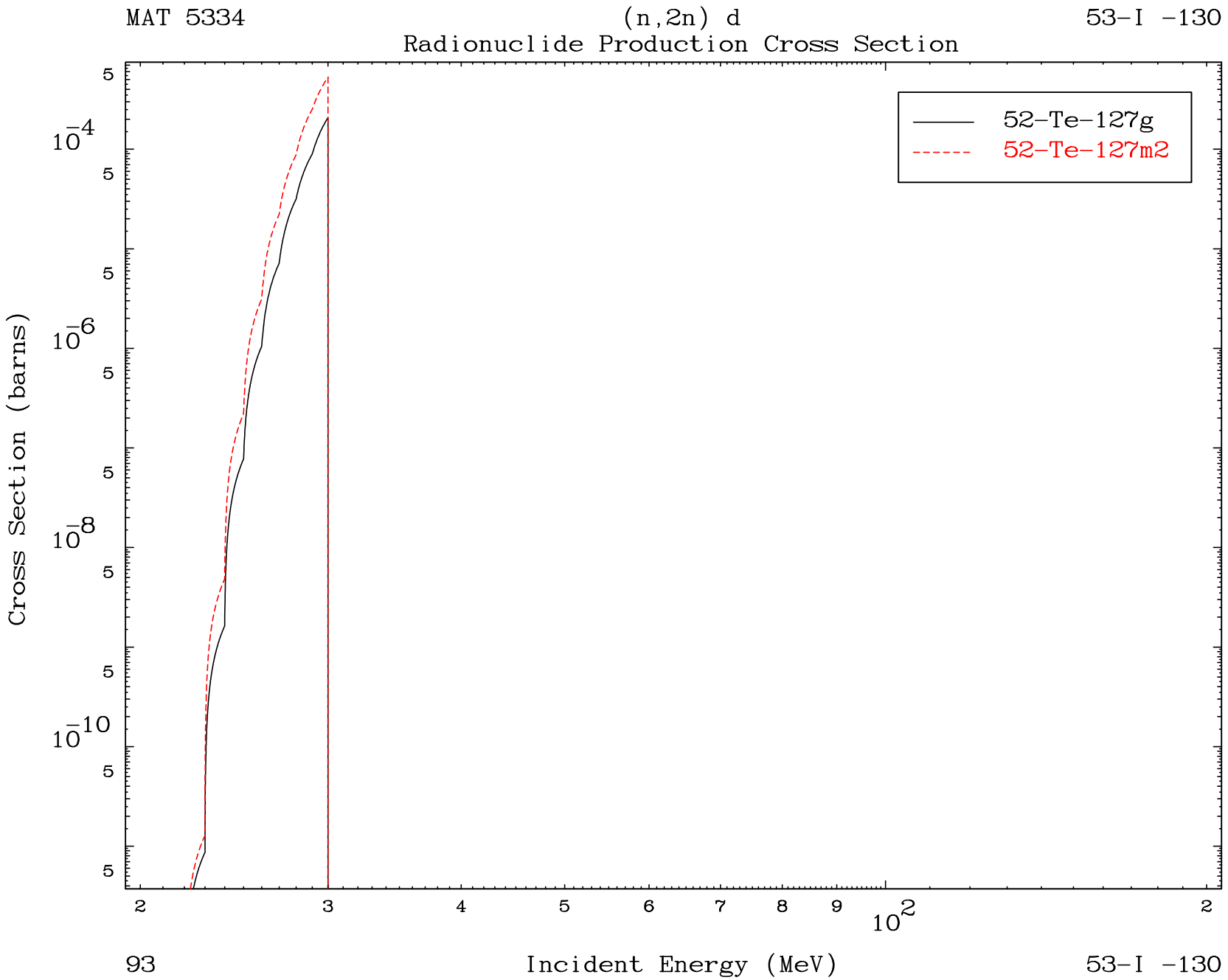

MAT 5334
MT= 71 (n,n') Level
Legendre Coefficients
53-I -130
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
88
Incident Energy (MeV)
53-I -130

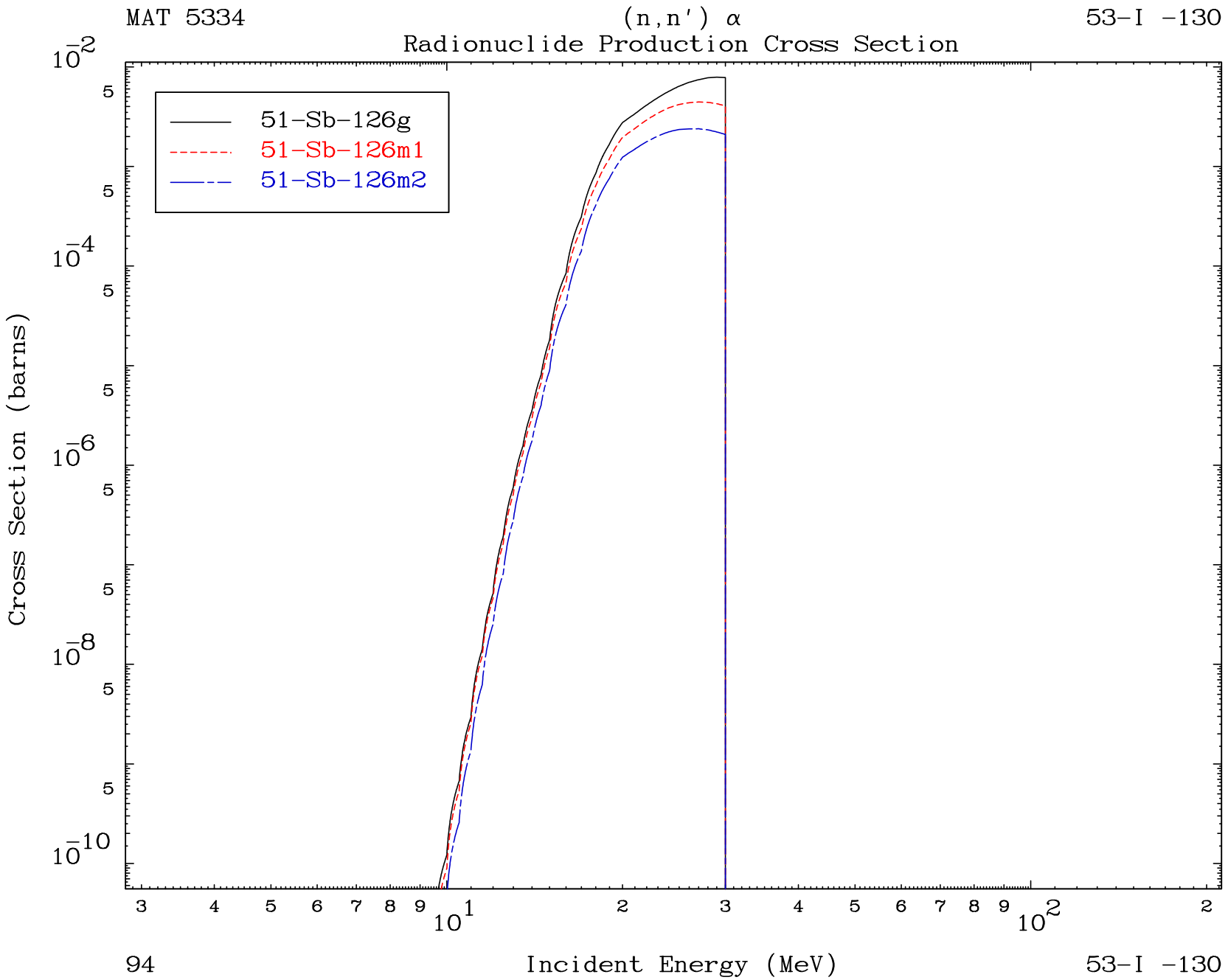

MAT 5334
MT= 71 (n,n') Level
Legendre Coefficients
53-I -130
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.04
0.03
0.02
0.01
0.00
Legendre (CM)
0
50
100
150
200
89
Incident Energy (MeV)
53-I -130

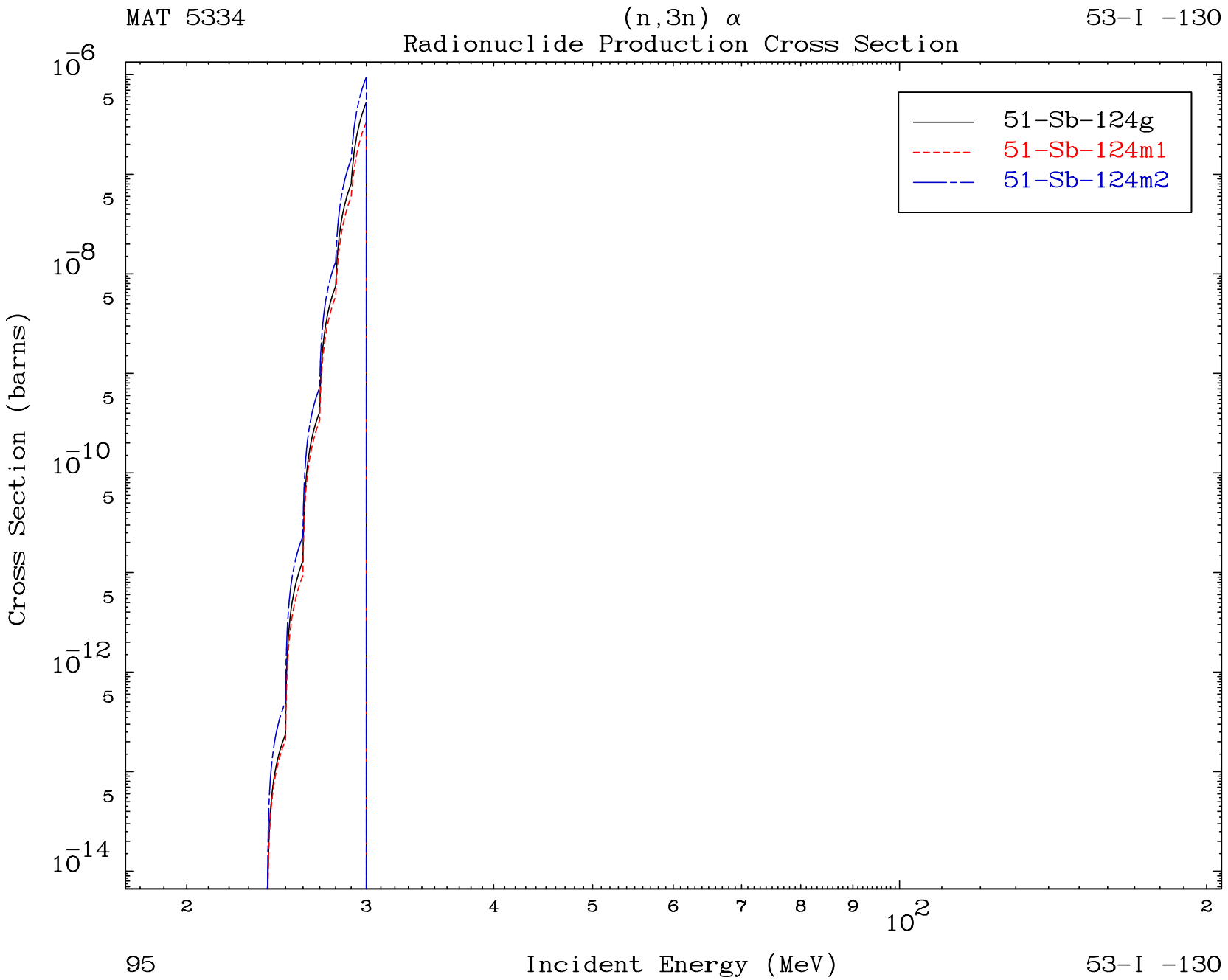

MAT 5334
MT= 71 (n,n') Level
Legendre Coefficients
53-I -130
X10-3
1.5
1.0
0.5
0.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
90
Incident Energy (MeV)
53-I -130

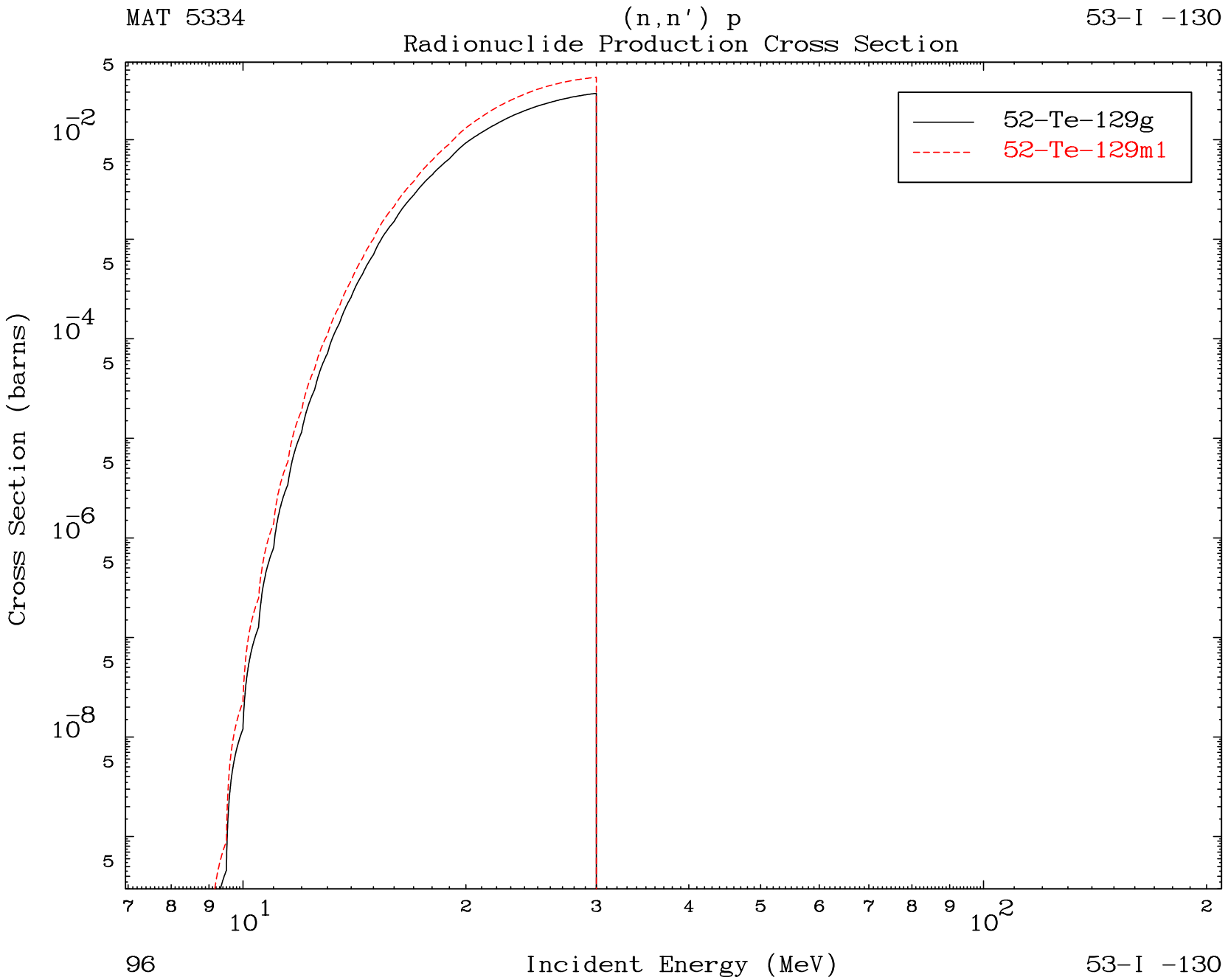

MAT 5334
MT= 71 (n,n') Level
Legendre Coefficients
53-I -130
X10^-6
2.5
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
50
100
150
200
91
Incident Energy (MeV)
53-I -130
P28
P29
P30
P31
P32
P33
P34
P35
P36

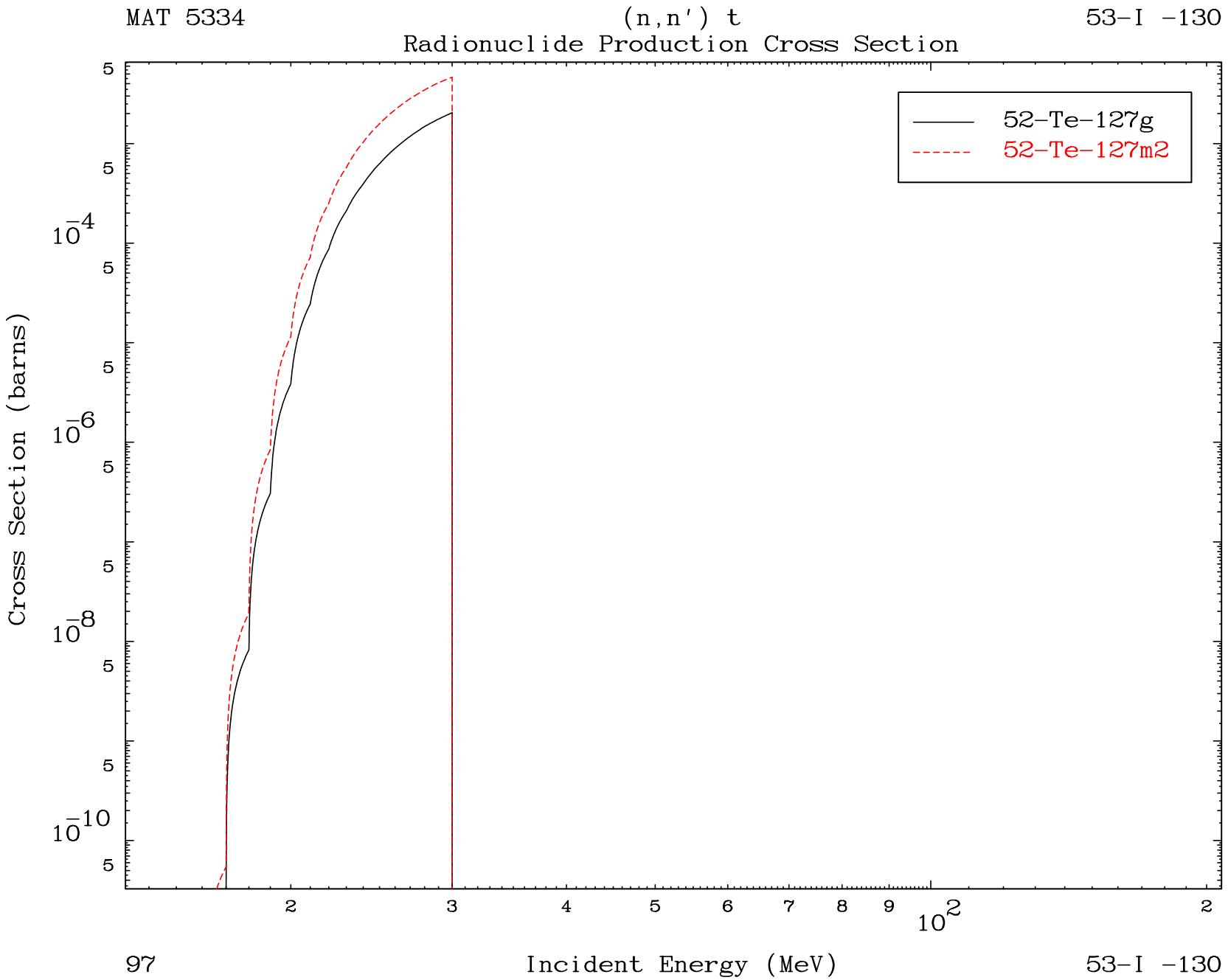

MAT 5334
Inelastic
53-I -130
Radionuclide Production Cross Section
53-I -130g
53-I -130m1
Cross Section (barns)
Incident Energy (MeV)
92
53-I -130

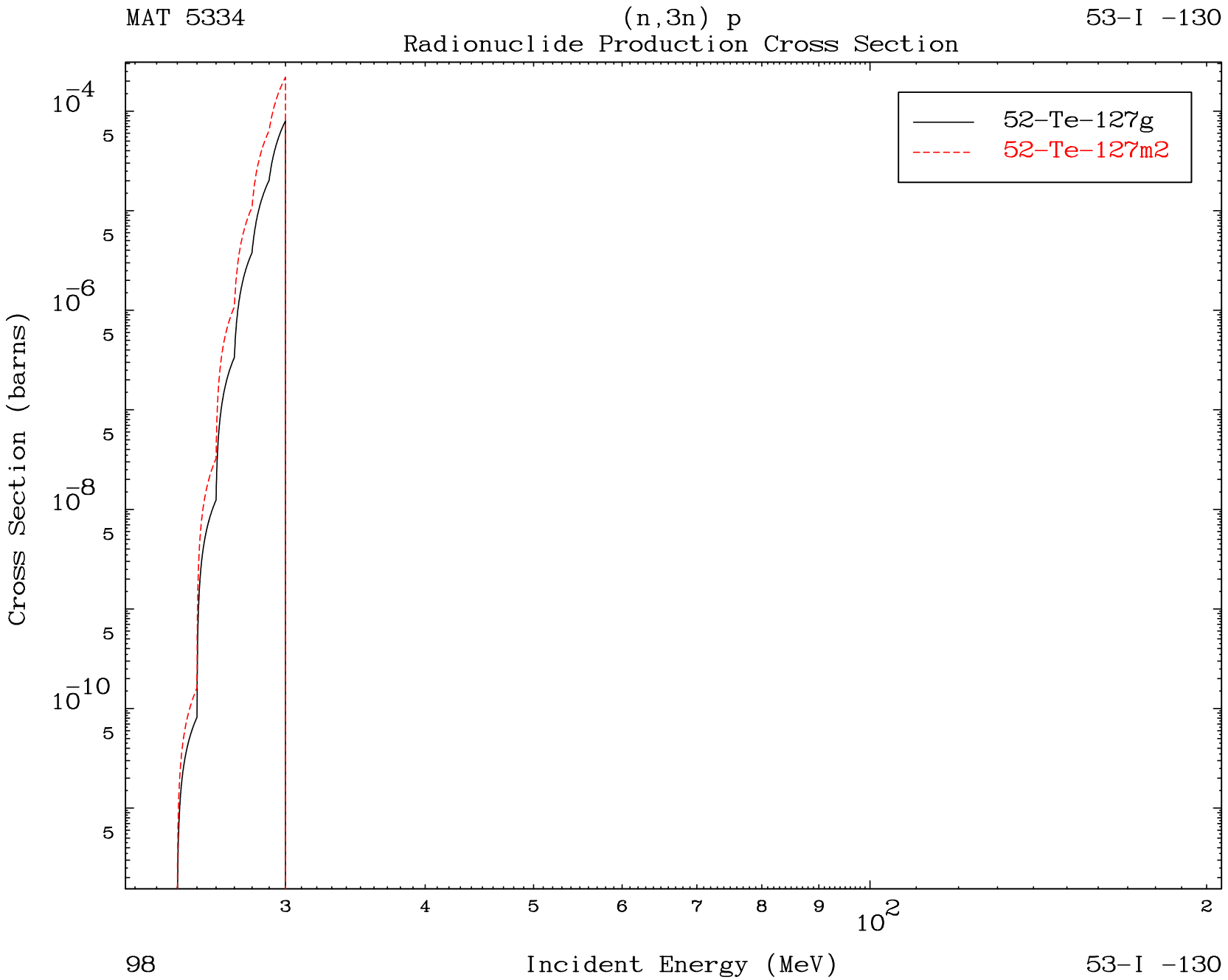

MAT 5334
(n,2n) d
53-I -130
Radionuclide Production Cross Section
52-Te-127g
52-Te-127m2
Cross Section (barns)
Incident Energy (MeV)
93
53-I -130

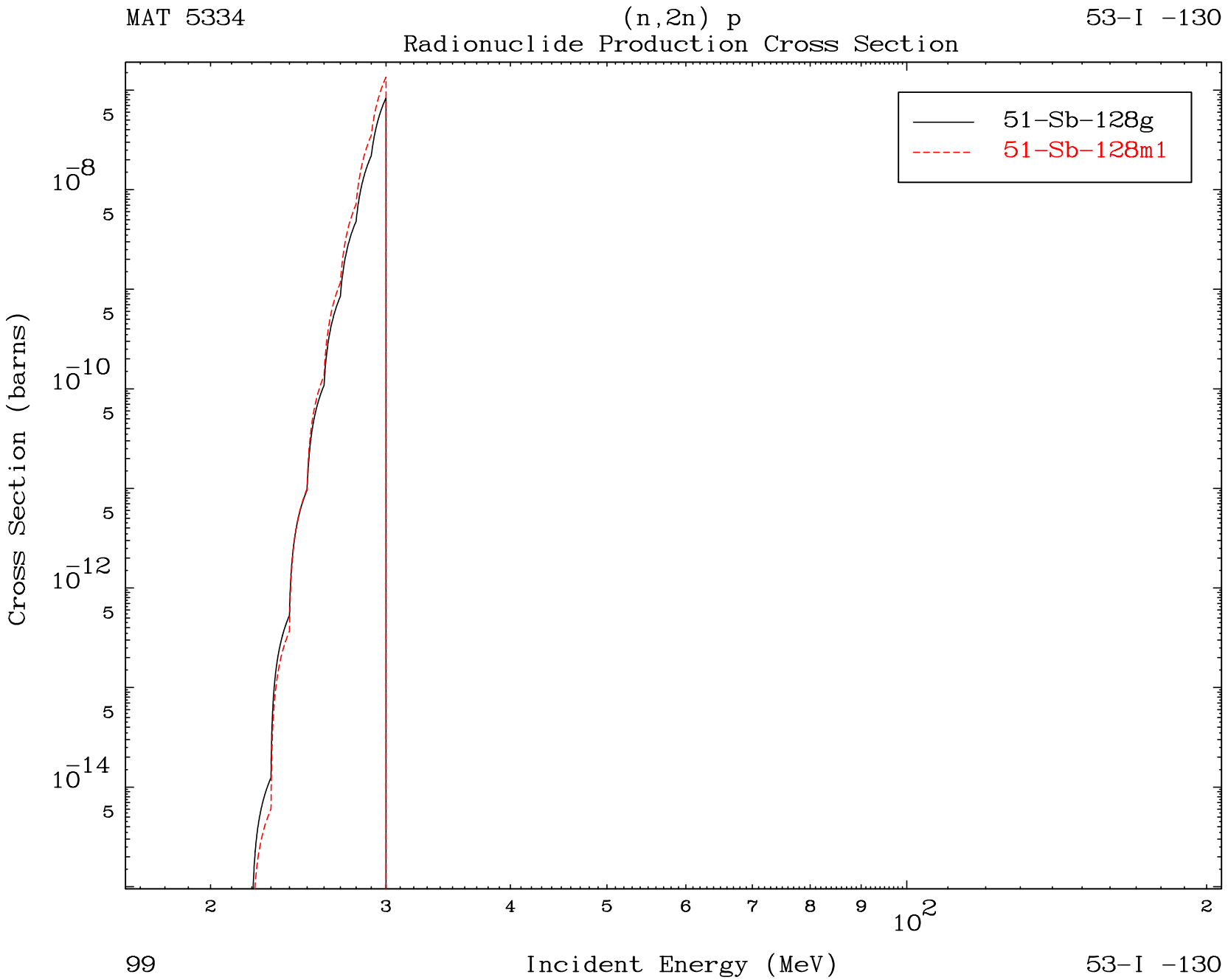

MAT 5334
(n,n') α
53-I -130
Radionuclide Production Cross Section
51-Sb-126g
51-Sb-126m1
51-Sb-126m2
Cross Section (barns)
Incident Energy (MeV)
94
53-I -130

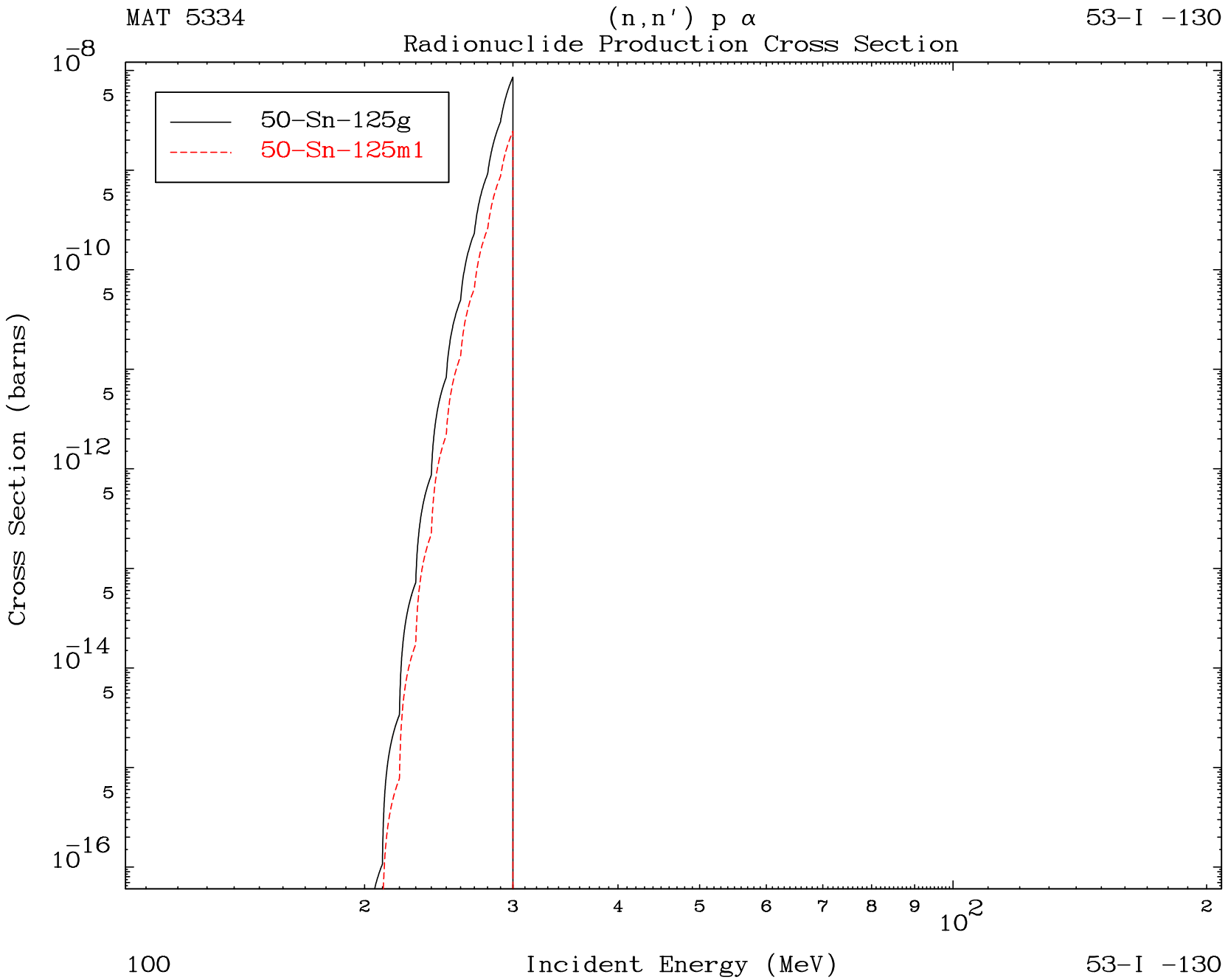

MAT 5334
(n,3n) α
53-I -130
Radionuclide Production Cross Section
51-Sb-124g
51-Sb-124m1
51-Sb-124m2
Cross Section (barns)
Incident Energy (MeV)
95
53-I -130

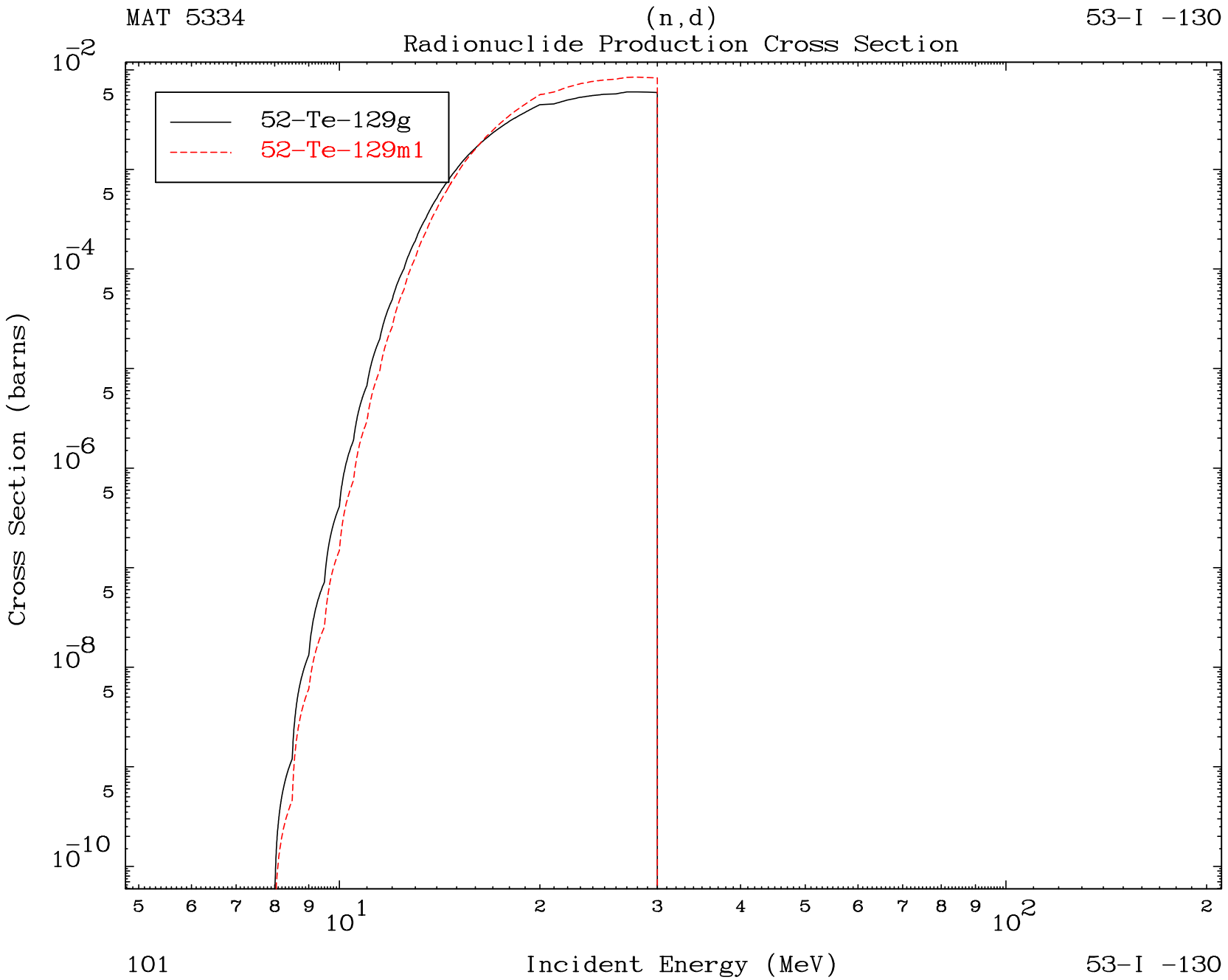

MAT 5334
(n,n') p
53-I -130
Radionuclide Production Cross Section
52-Te-129g
52-Te-129m1
Cross Section (barns)
Incident Energy (MeV)
96
53-I -130

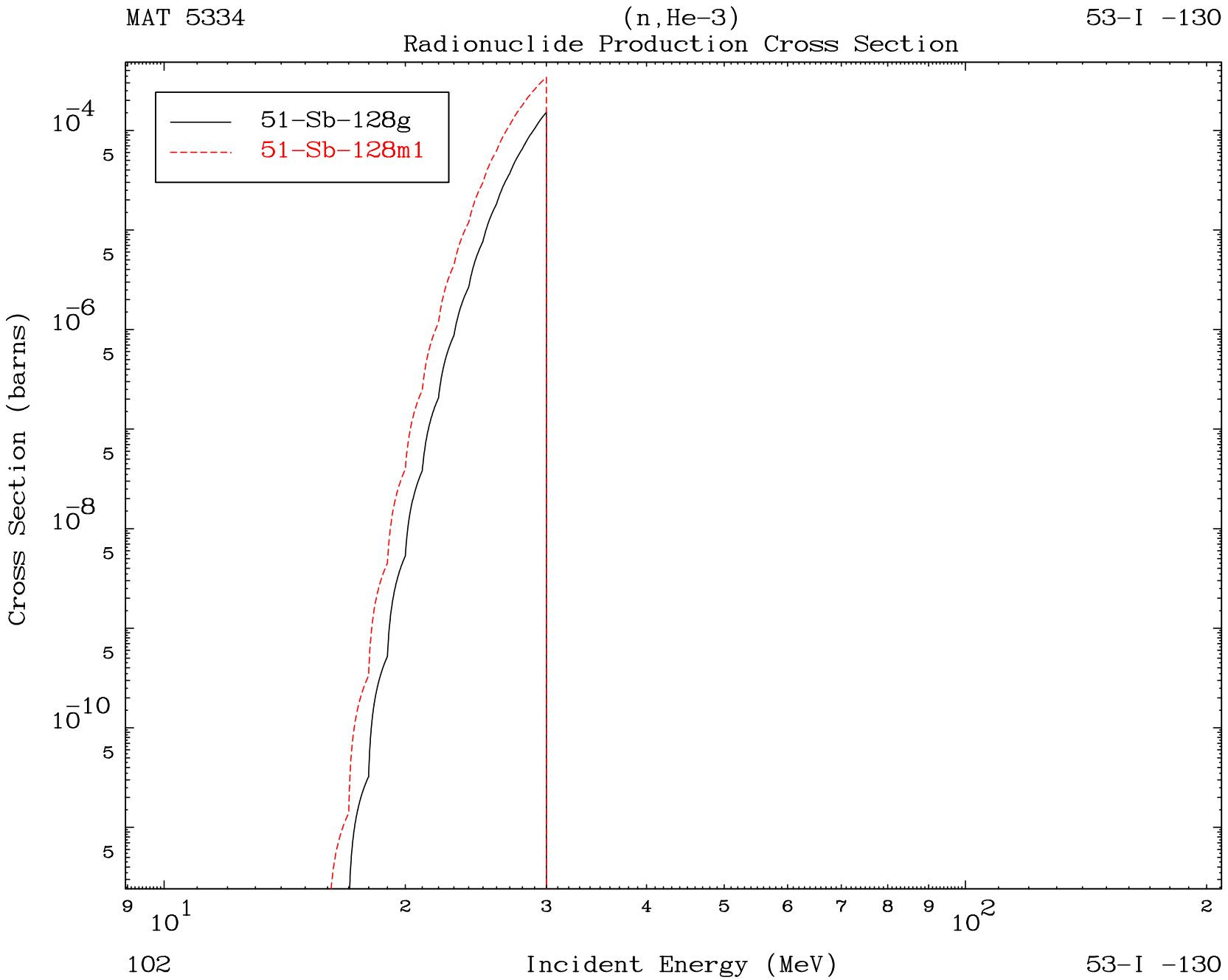

MAT 5334
(n,n') t
53-I -130
Radionuclide Production Cross Section
52-Te-127g
52-Te-127m2
Cross Section (barns)
Incident Energy (MeV)
97
53-I -130

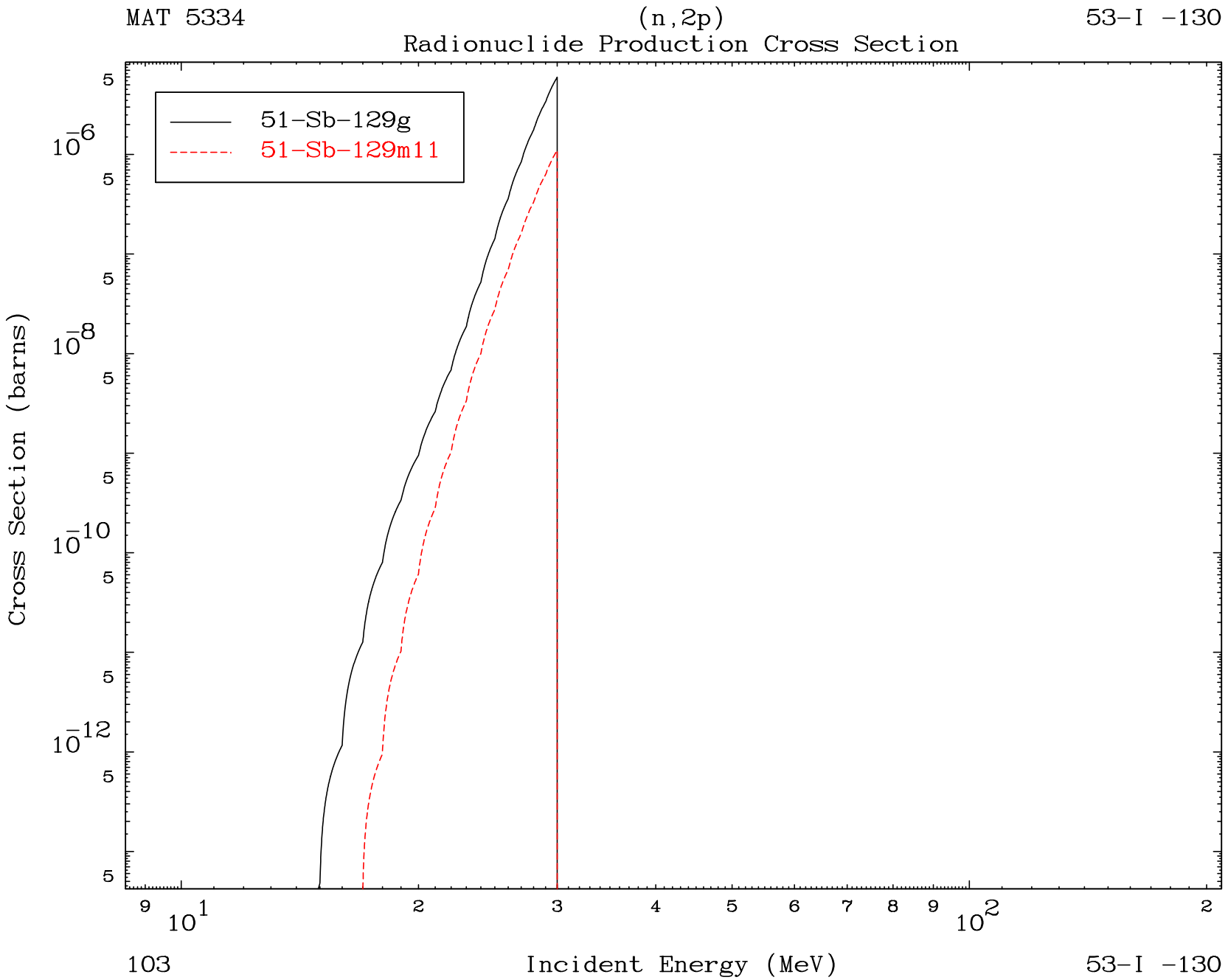

MAT 5334
(n,3n) p
53-I -130
Radionuclide Production Cross Section
52-Te-127g
52-Te-127m2
Cross Section (barns)
10-4
10-6
10-8
10-10
5
3
4
5
6
7
8
9
10 2
2
98
Incident Energy (MeV)
53-I -130

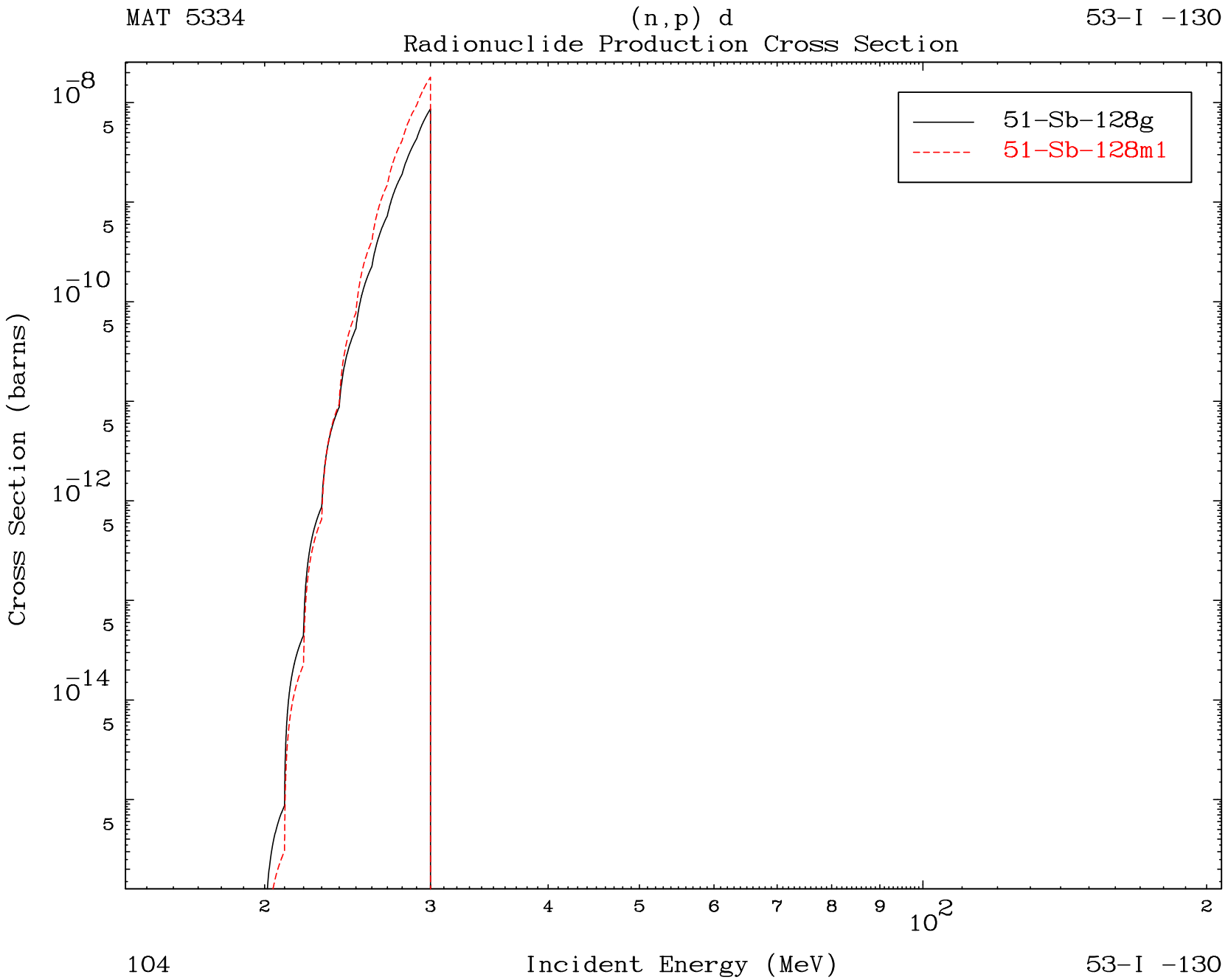

MAT 5334
(n,2n) p
53-I -130
Radionuclide Production Cross Section
51-Sb-128g
51-Sb-128m1
Cross Section (barns)
10-8
10-10
10-12
10-14
5
2
3
4
5
6
7
8
9
102
2
99
Incident Energy (MeV)
53-I -130

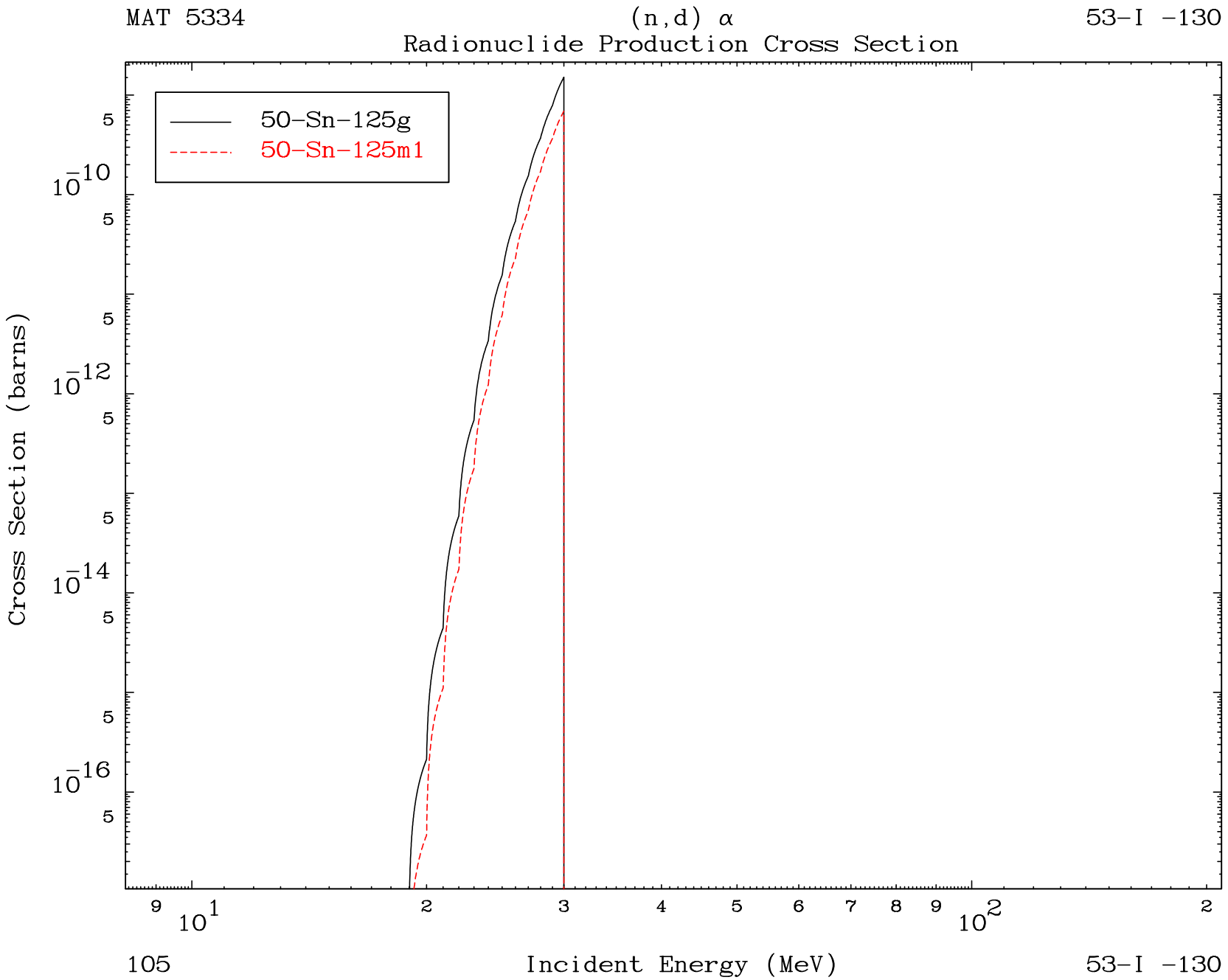

MAT 5334
(n,n') p α
53-I -130
Radionuclide Production Cross Section
50-Sn-125g
50-Sn-125m1
Cross Section (barns)
Incident Energy (MeV)
100
53-I -130


MAT 5334
(n,d)
53-I -130
Radionuclide Production Cross Section
52-Te-129g
52-Te-129m1
Cross Section (barns)
Incident Energy (MeV)
101
53-I -130


MAT 5334
(n,He-3)
53-I -130
Radionuclide Production Cross Section
51-Sb-128g
51-Sb-128m1
Cross Section (barns)
Incident Energy (MeV)
102
53-I -130


MAT 5334
(n,2p)
53-I -130
Radionuclide Production Cross Section
51-Sb-129g
51-Sb-129m11
Cross Section (barns)
Incident Energy (MeV)
103
53-I -130


MAT 5334
(n,p) d
53-I -130
Radionuclide Production Cross Section
51-Sb-128g
51-Sb-128m1
Cross Section (barns)
Incident Energy (MeV)
104
53-I -130


MAT 5334
(n,d) α
53-I -130
Radionuclide Production Cross Section
50-Sn-125g
50-Sn-125m1
Cross Section (barns)
10-10
10-12
10-14
10-16
5
9
10 1
2
3
4
5
6
7
8
9
10 2
2
105
Incident Energy (MeV)
53-I -130