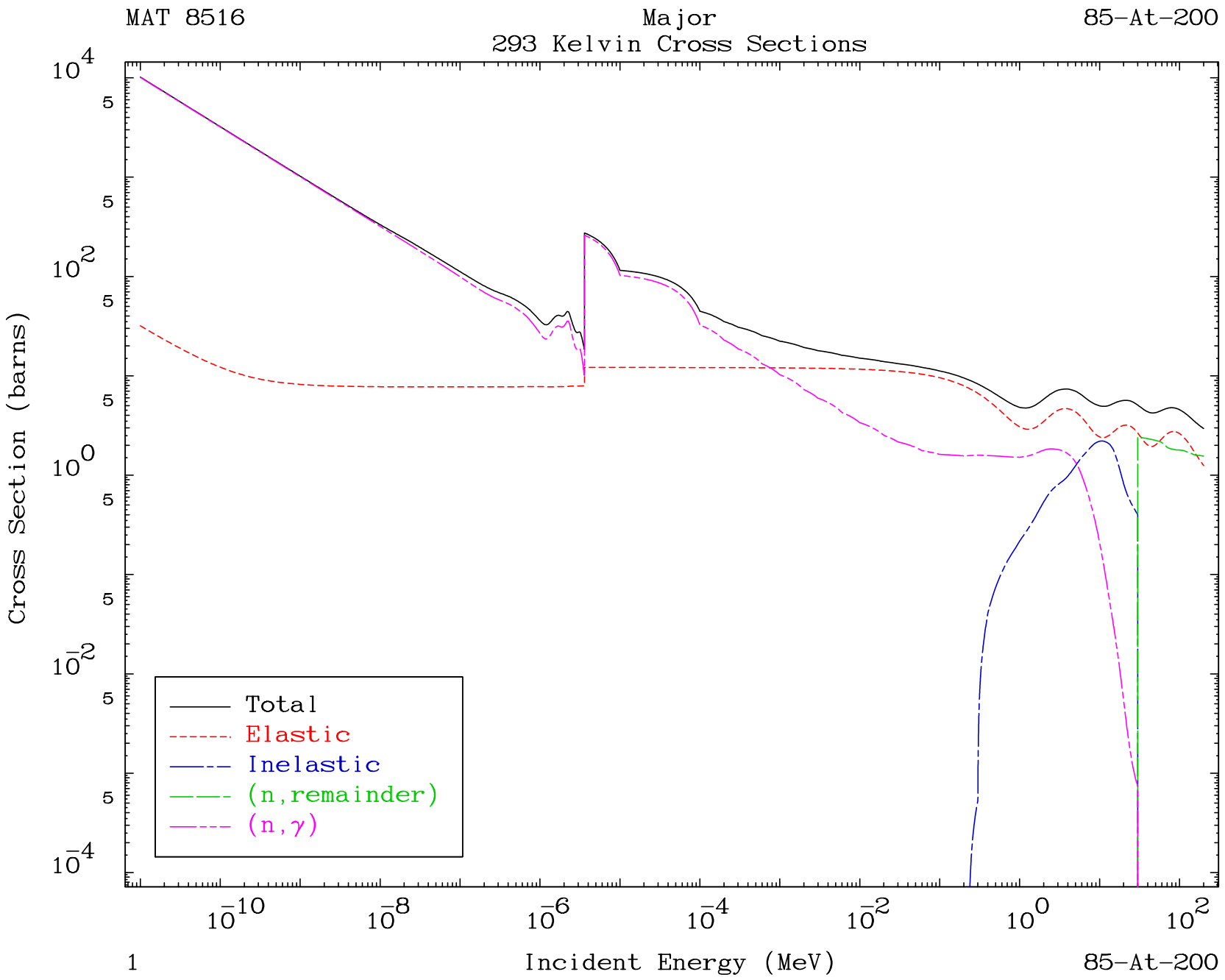
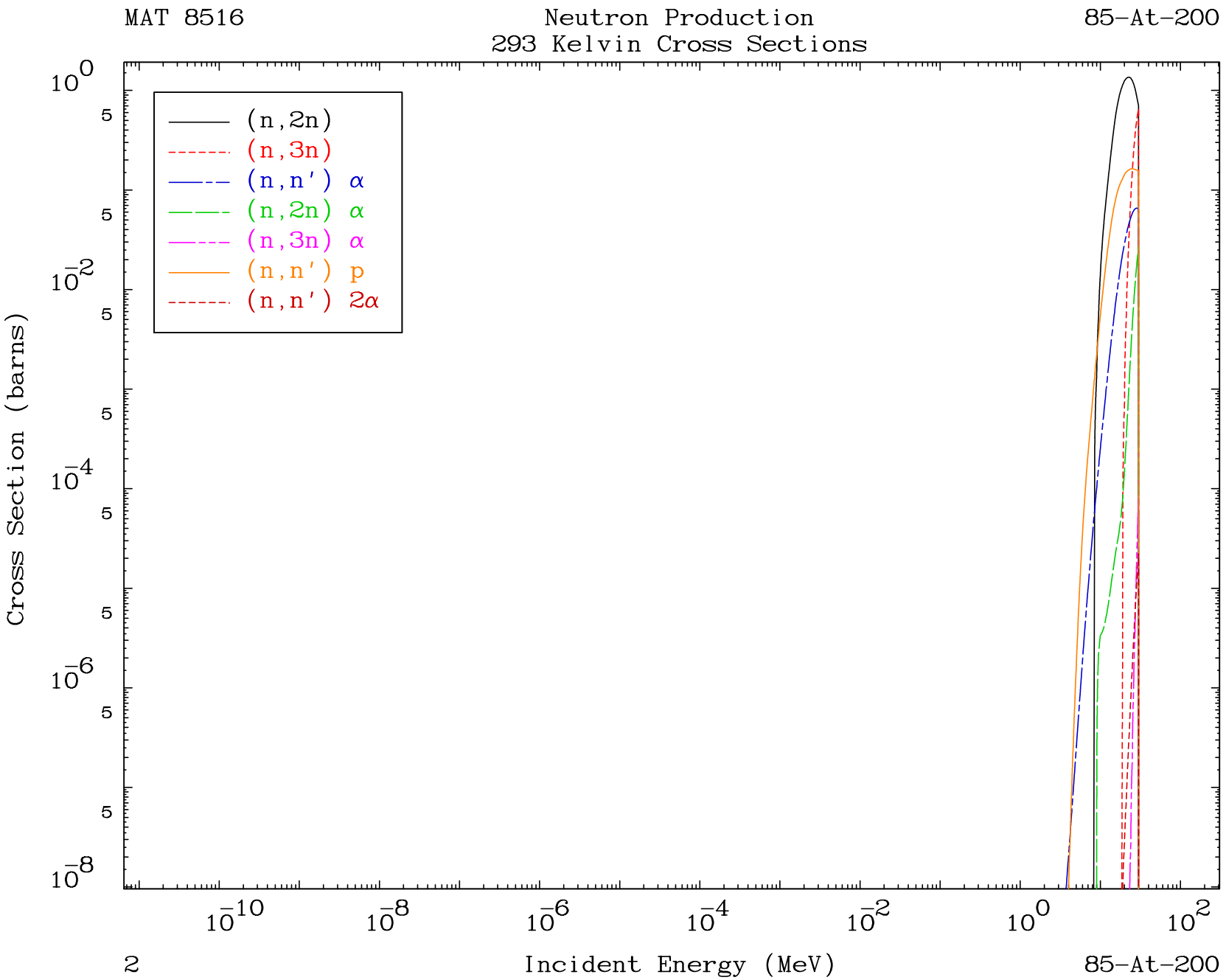
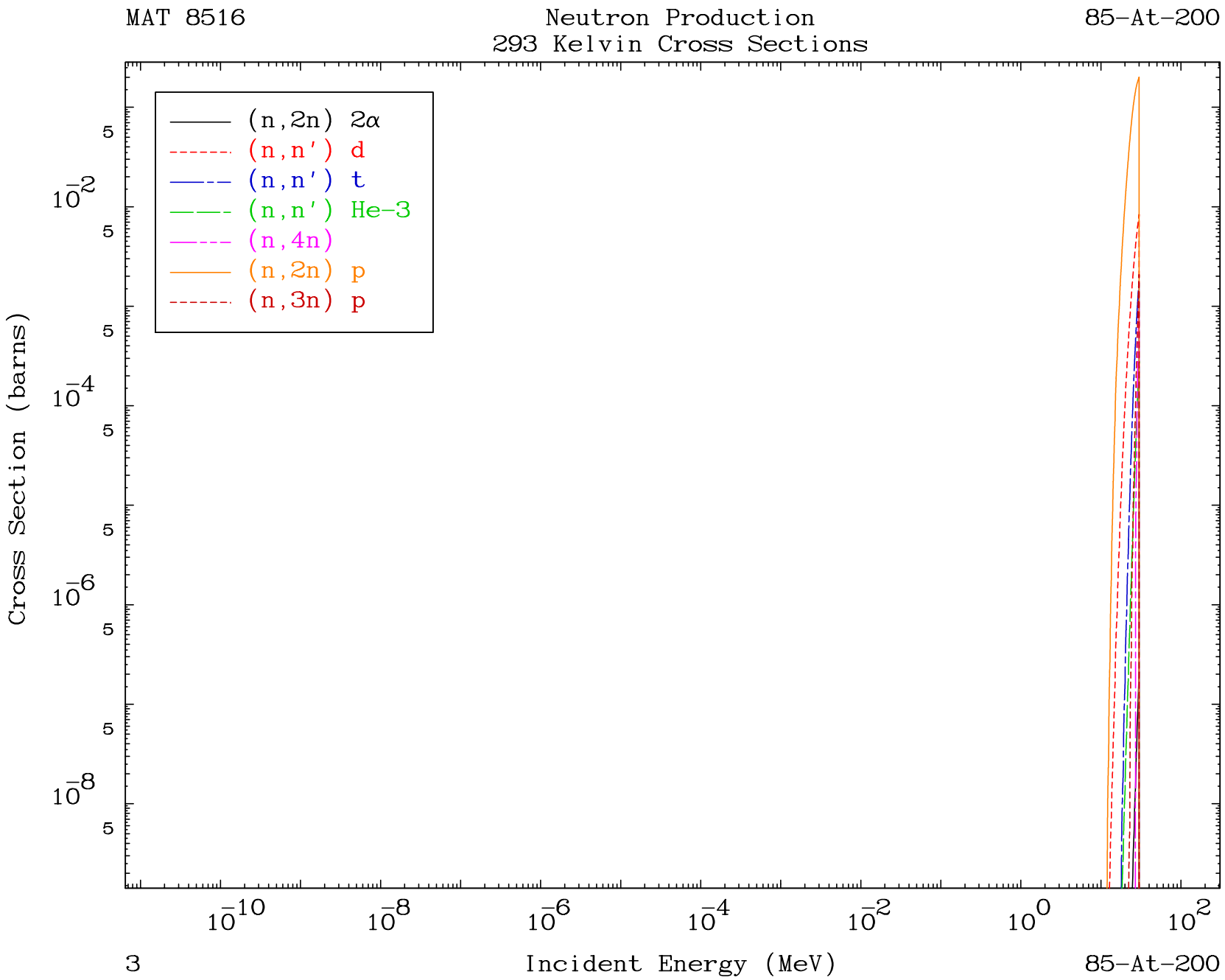
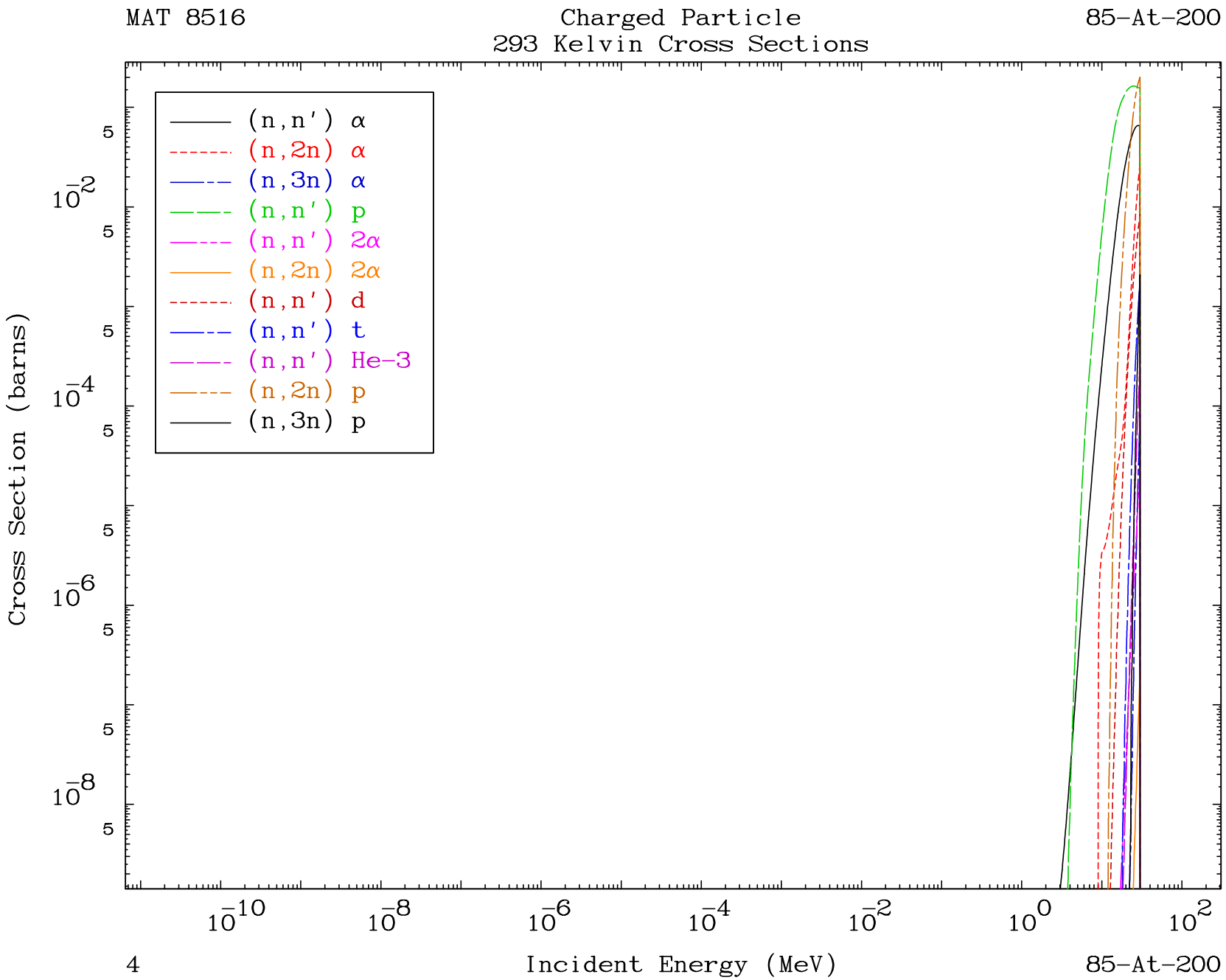
Program EVALPLOT
(Version 2017-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

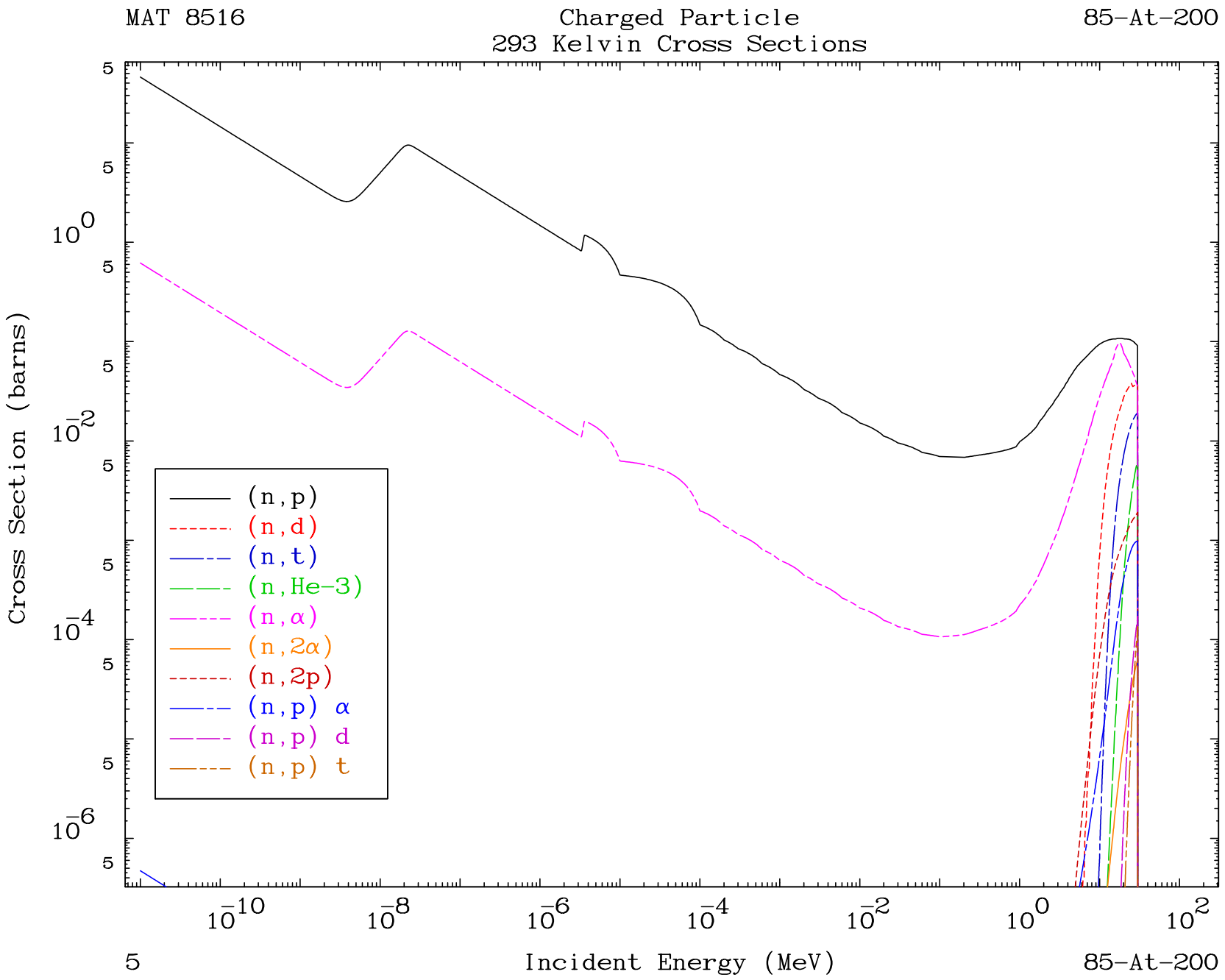
Press Mouse Button to Start

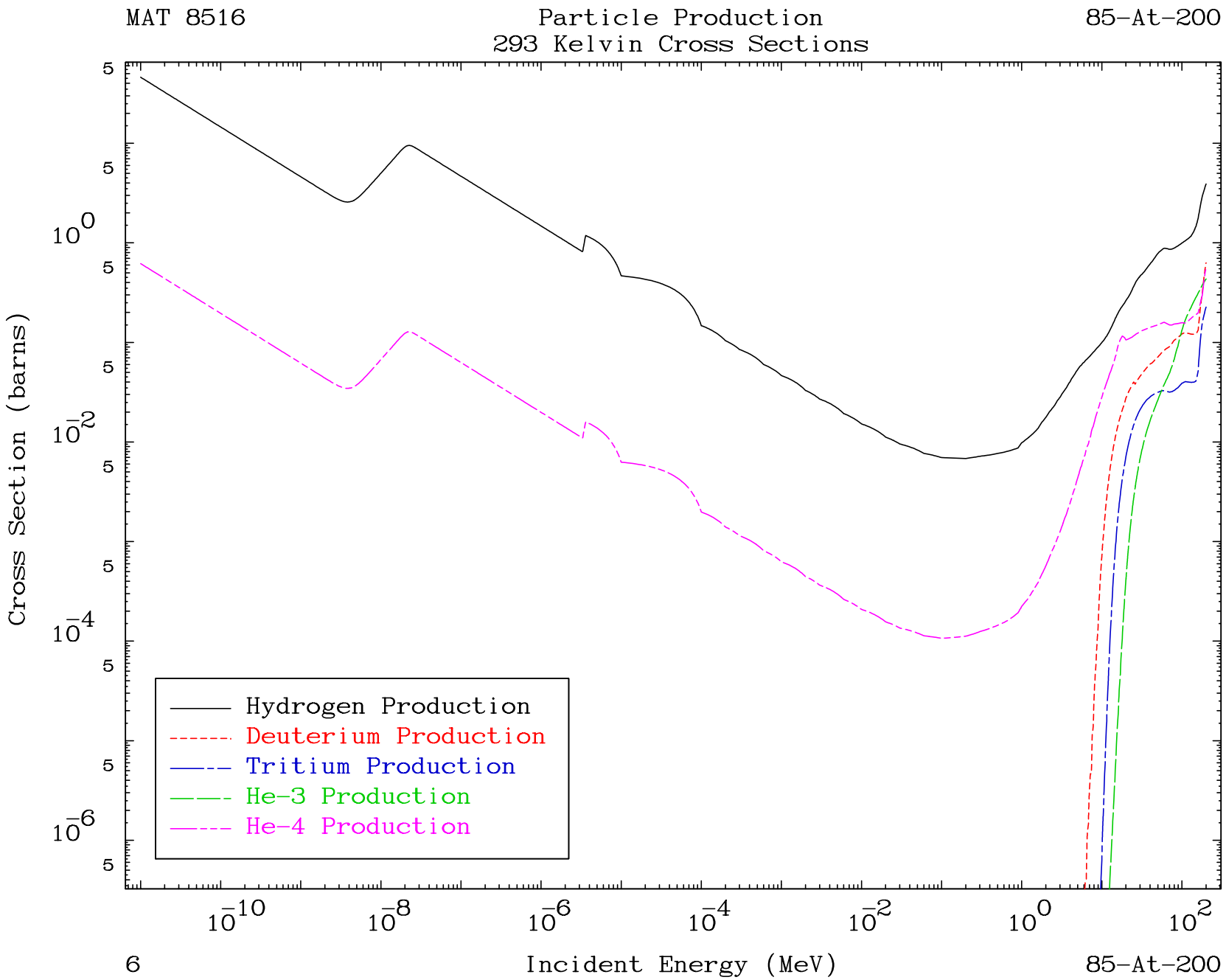

MAT 8516
Major
85-At-200
293 Kelvin Cross Sections
Cross Section (barns)
Incident Energy (MeV)
Total
Elastic
Inelastic
(n,remainder)
(n,γ)
1
85-At-200

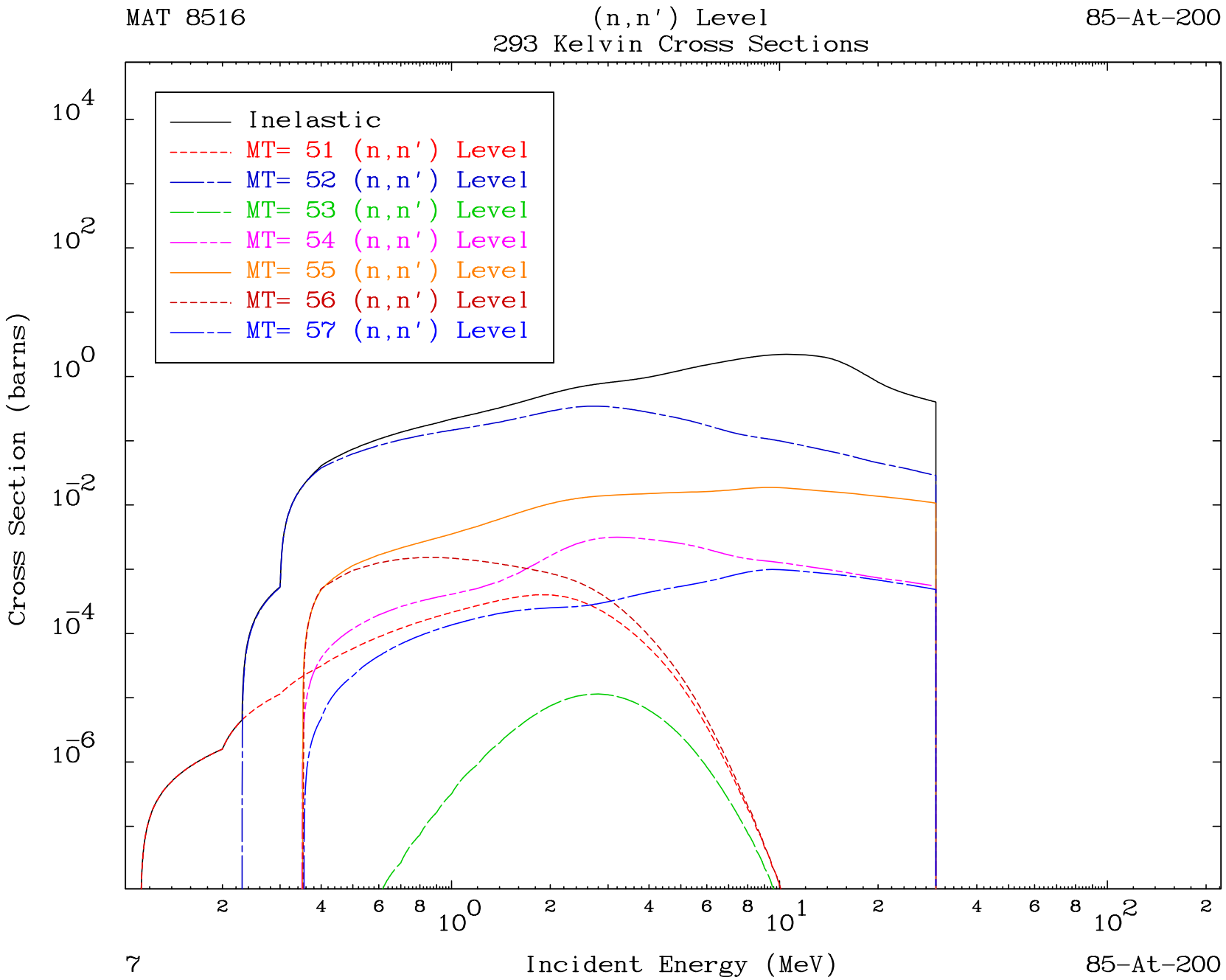

MAT 8516
Neutron Production
293 Kelvin Cross Sections
85-At-200
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
Cross Section (barns)
Incident Energy (MeV)
2
85-At-200

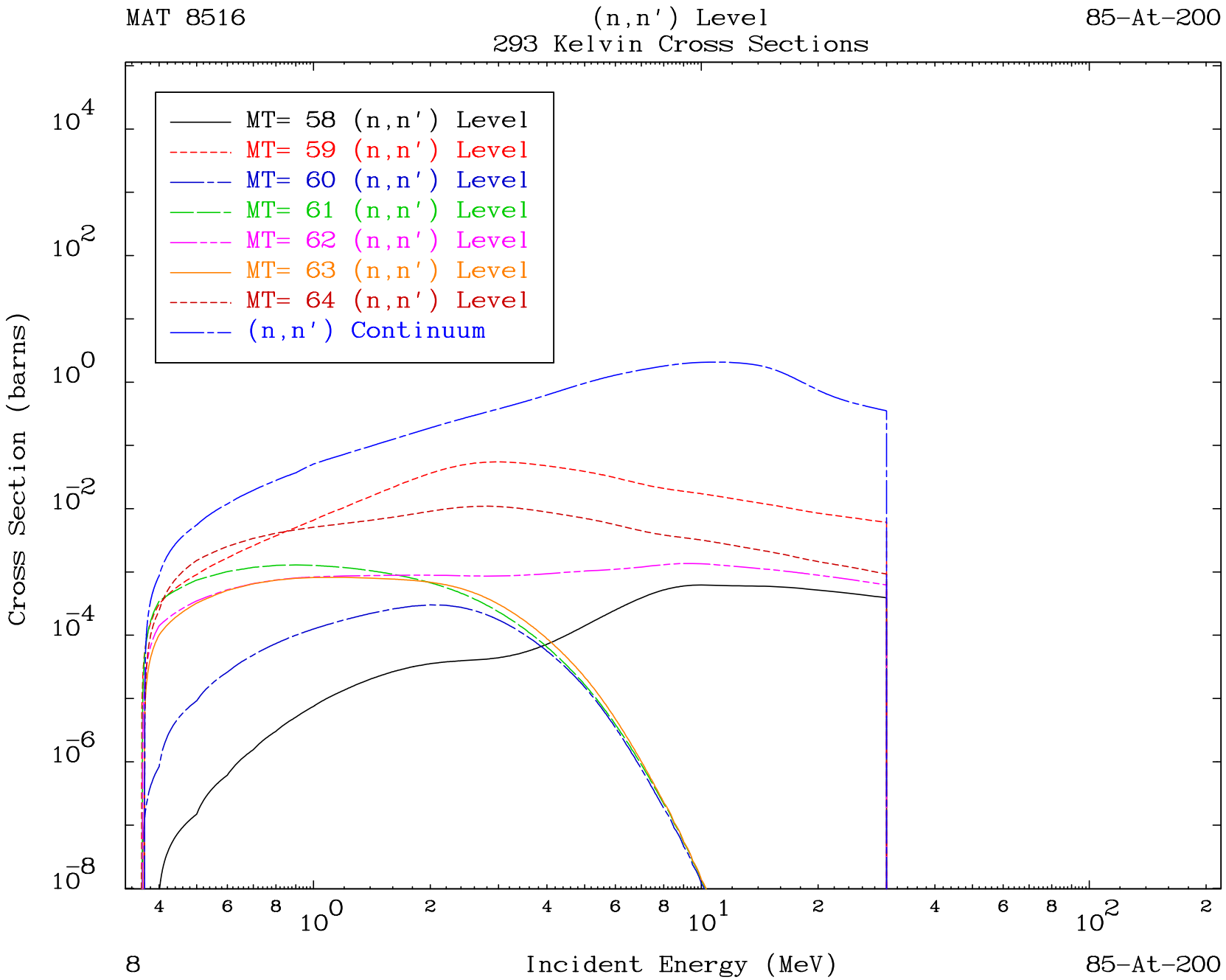

MAT 8516
Neutron Production
293 Kelvin Cross Sections
85-At-200
(n,2n) 2α
(n,n') d
(n,n') t
(n,n') He-3
(n,4n)
(n,2n) p
(n,3n) p
Cross Section (barns)
Incident Energy (MeV)
3
85-At-200

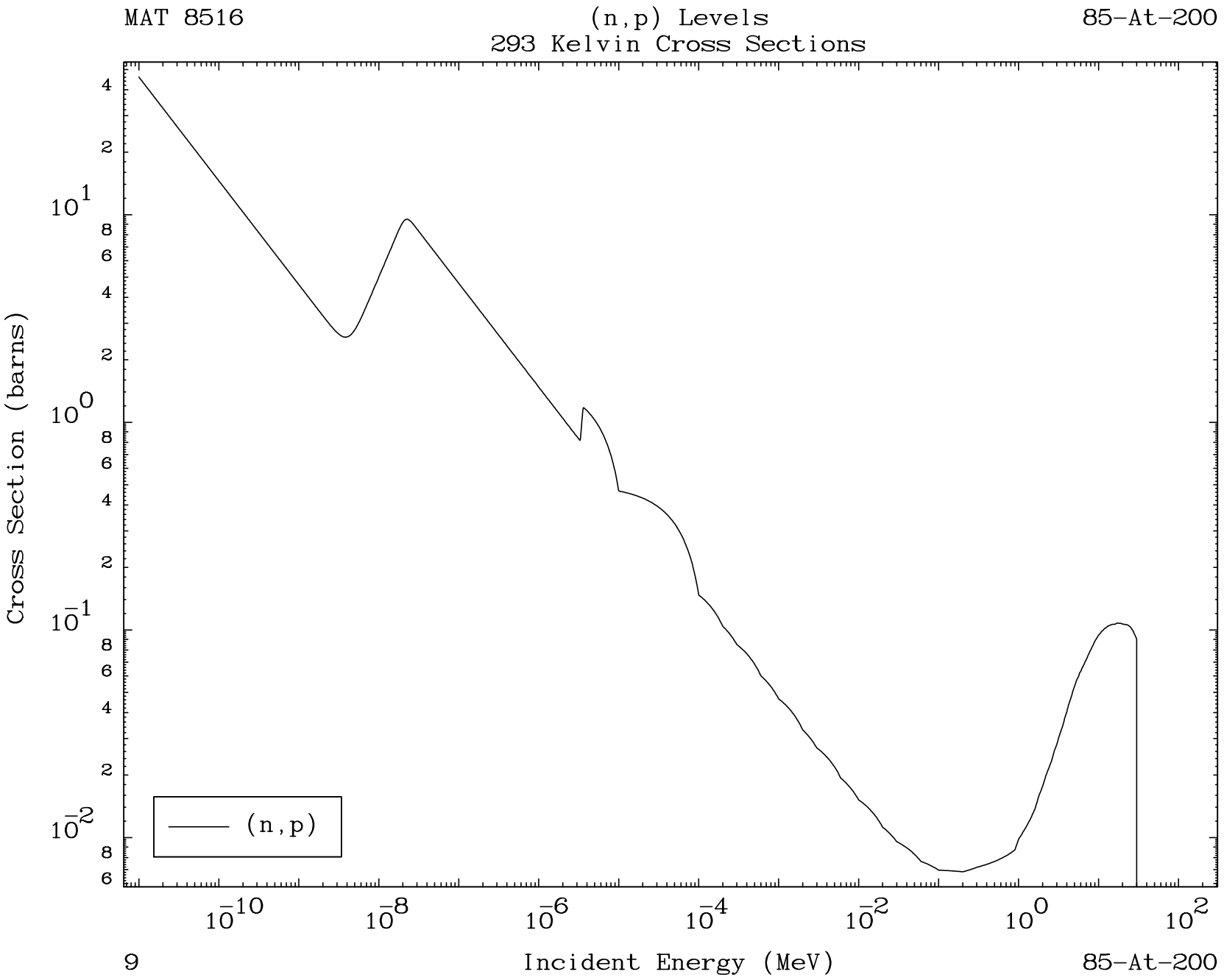

MAT 8516
Charged Particle
293 Kelvin Cross Sections
85-At-200
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,2n) 2α
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
(n,3n) p
Cross Section (barns)
Incident Energy (MeV)
4
85-At-200

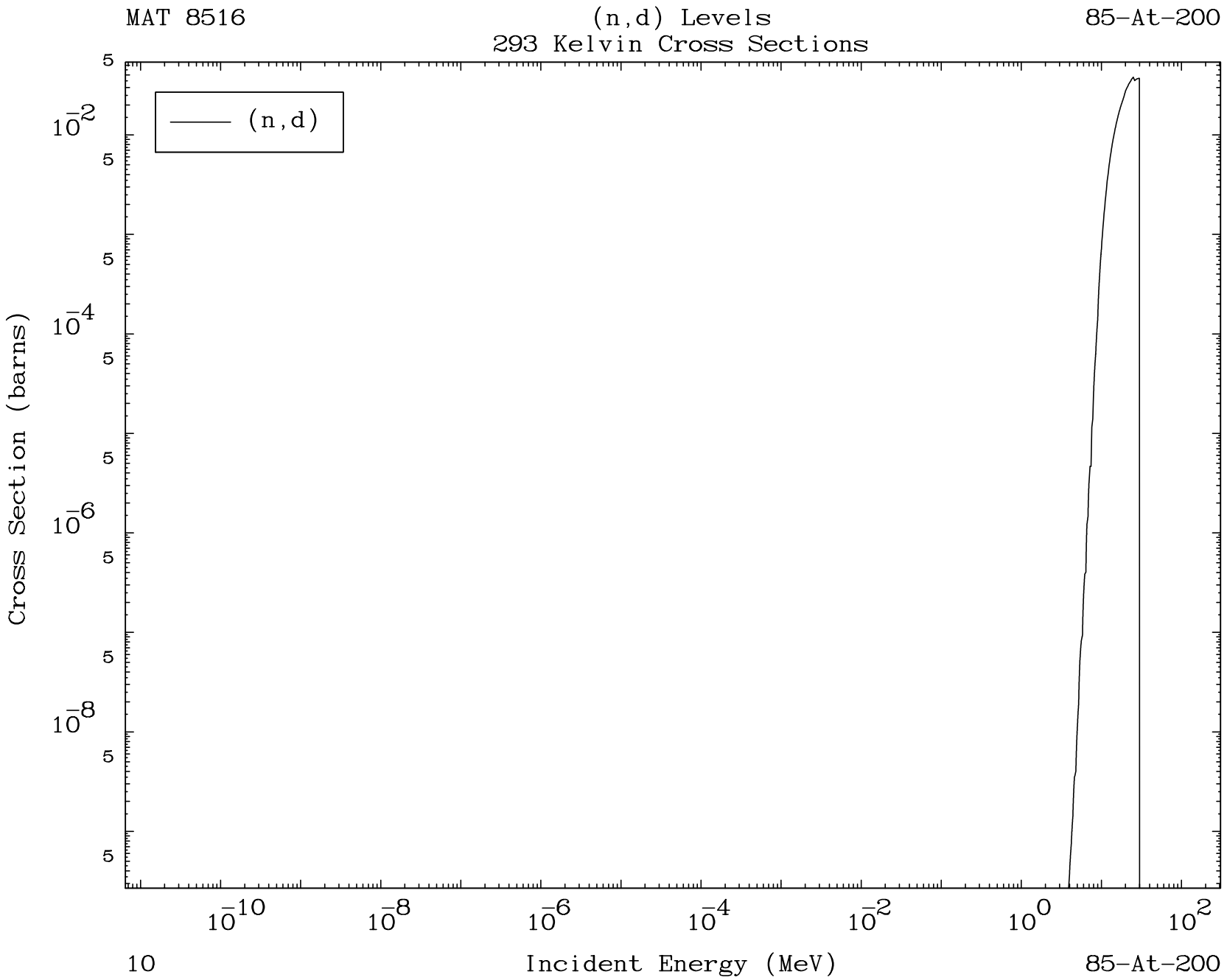

MAT 8516
Charged Particle
293 Kelvin Cross Sections
85-At-200
Cross Section (barns)
Incident Energy (MeV)
85-At-200
(n,p)
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t

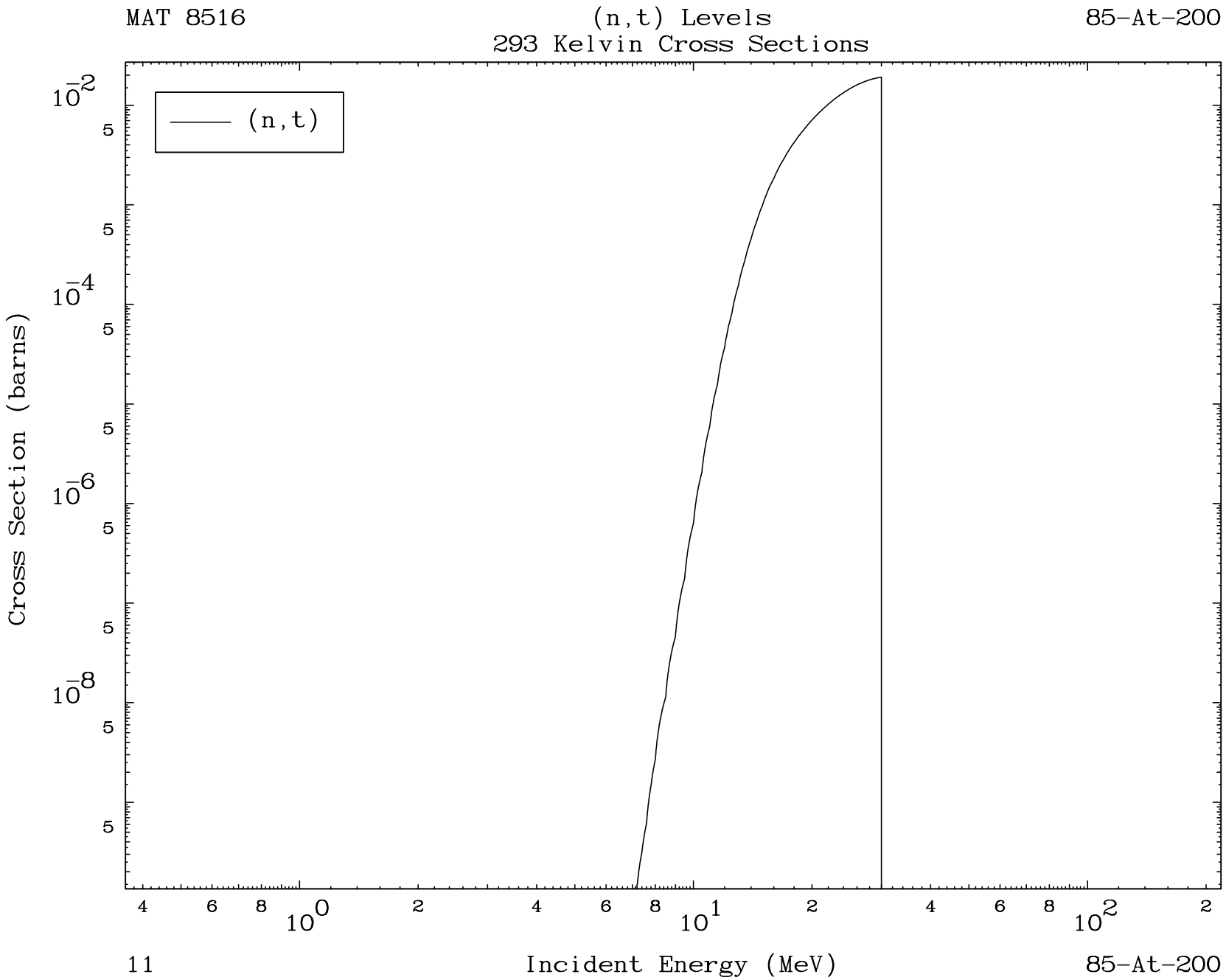

MAT 8516
Particle Production
293 Kelvin Cross Sections
85-At-200
Cross Section (barns)
Incident Energy (MeV)
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production
6
85-At-200

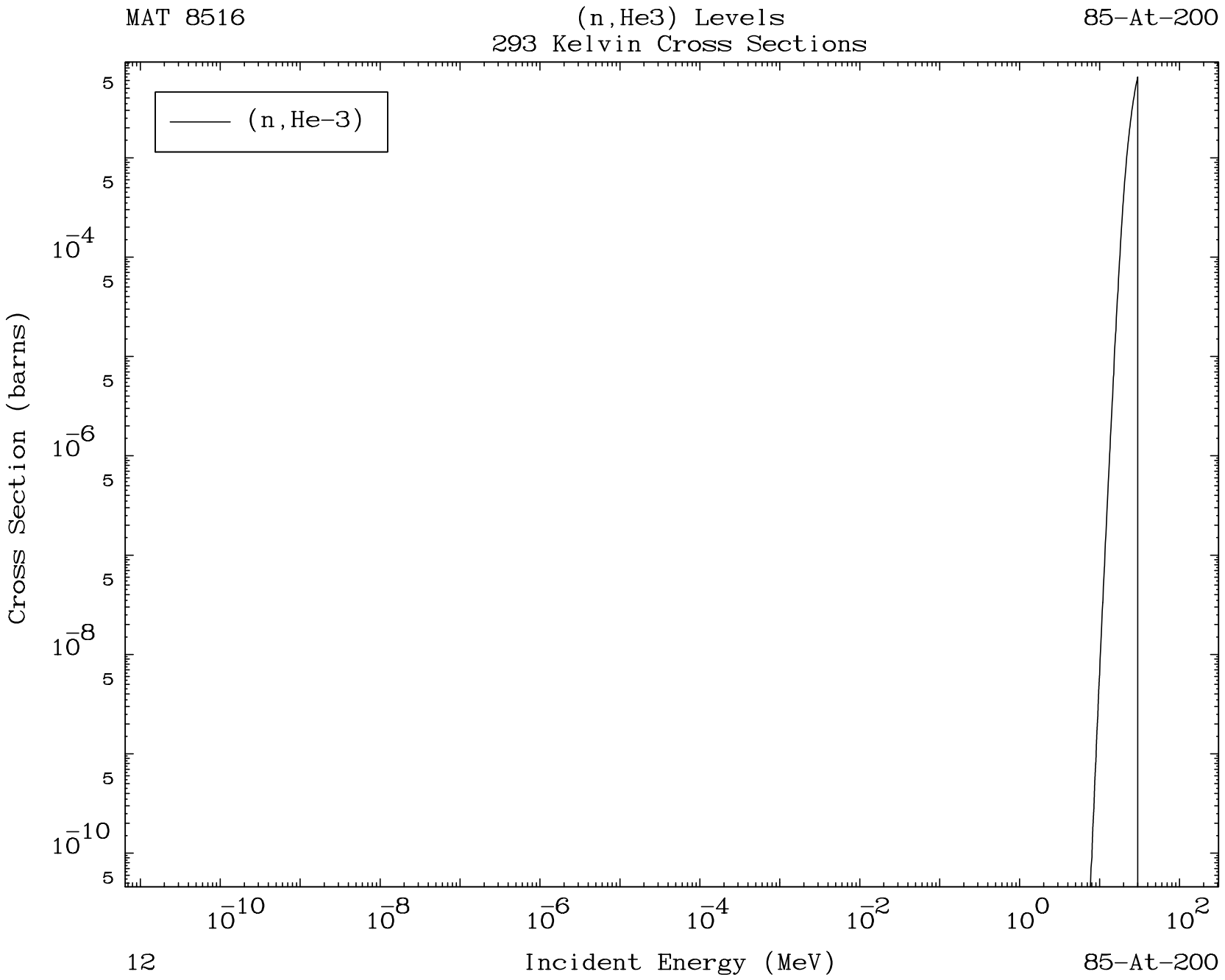

MAT 8516
(n,n') Level
85-At-200
293 Kelvin Cross Sections
Inelastic
MT= 51 (n,n') Level
MT= 52 (n,n') Level
MT= 53 (n,n') Level
MT= 54 (n,n') Level
MT= 55 (n,n') Level
MT= 56 (n,n') Level
MT= 57 (n,n') Level
Cross Section (barns)
Incident Energy (MeV)
7
85-At-200

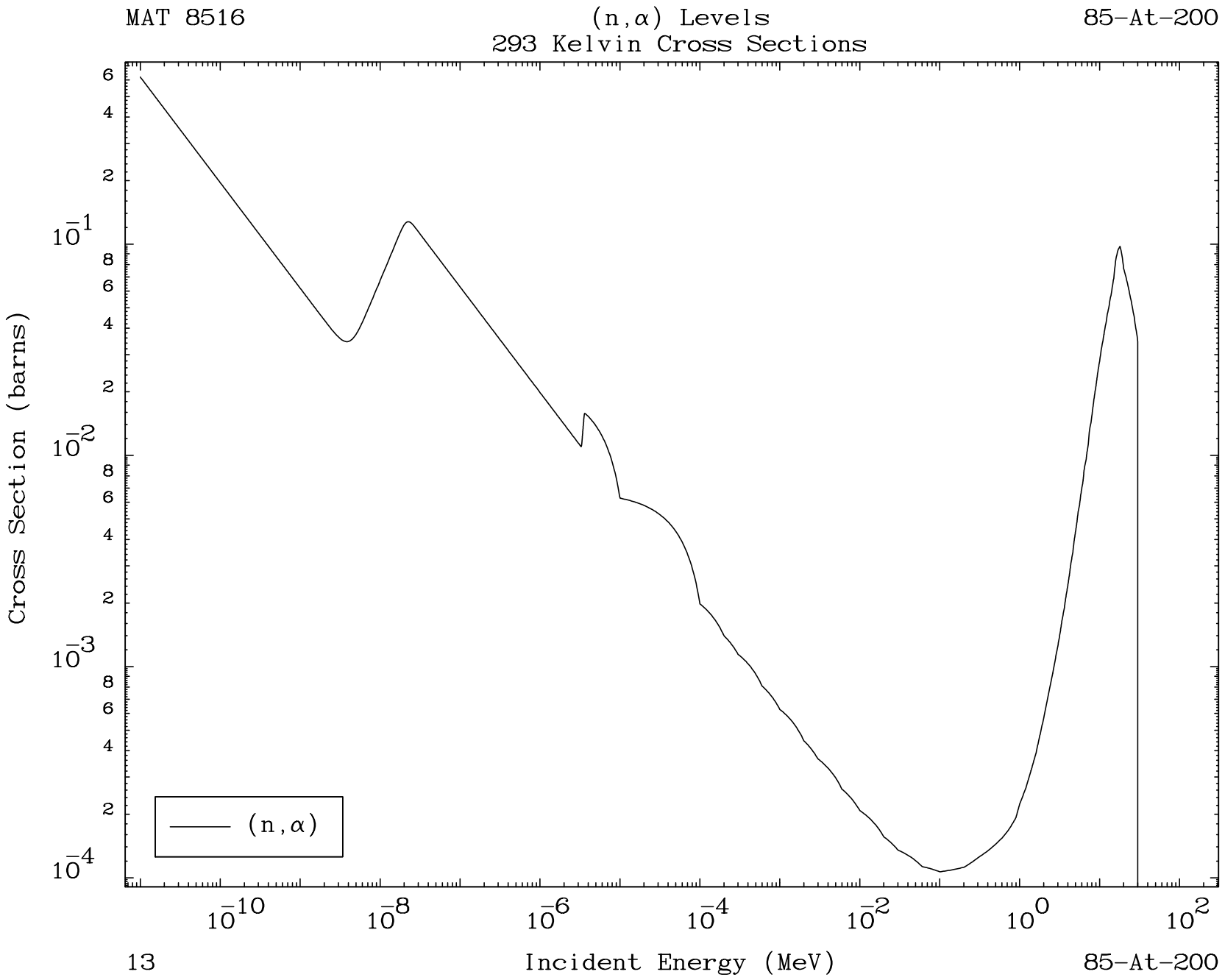

MAT 8516
(n,n') Level
85-At-200
293 Kelvin Cross Sections
MT= 58 (n,n') Level
MT= 59 (n,n') Level
MT= 60 (n,n') Level
MT= 61 (n,n') Level
MT= 62 (n,n') Level
MT= 63 (n,n') Level
MT= 64 (n,n') Level
(n,n') Continuum
Cross Section (barns)
Incident Energy (MeV)
8
85-At-200

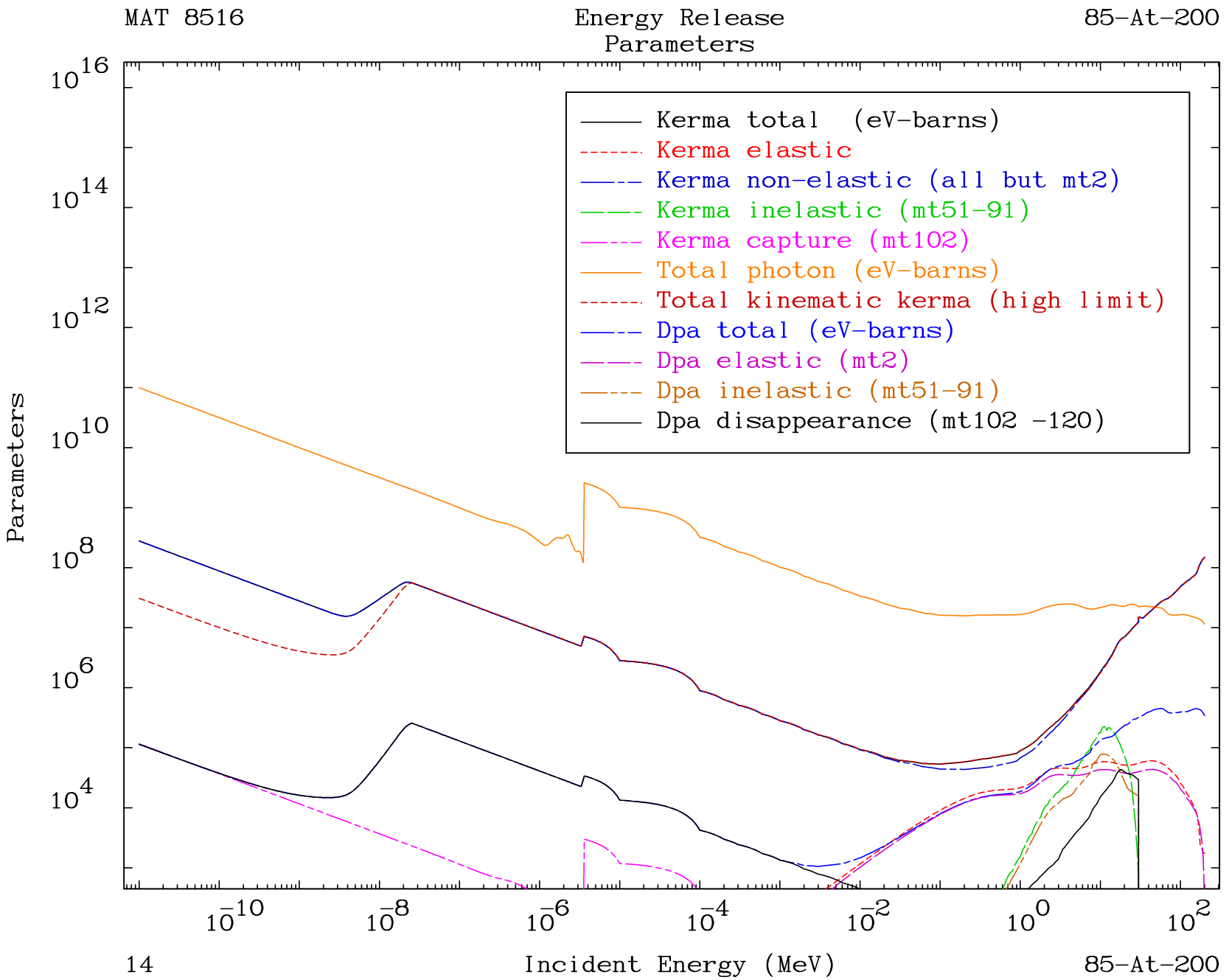

MAT 8516
(n,p) Levels
85-At-200
293 Kelvin Cross Sections
Cross Section (barns)
(n,p)
Incident Energy (MeV)
9
85-At-200

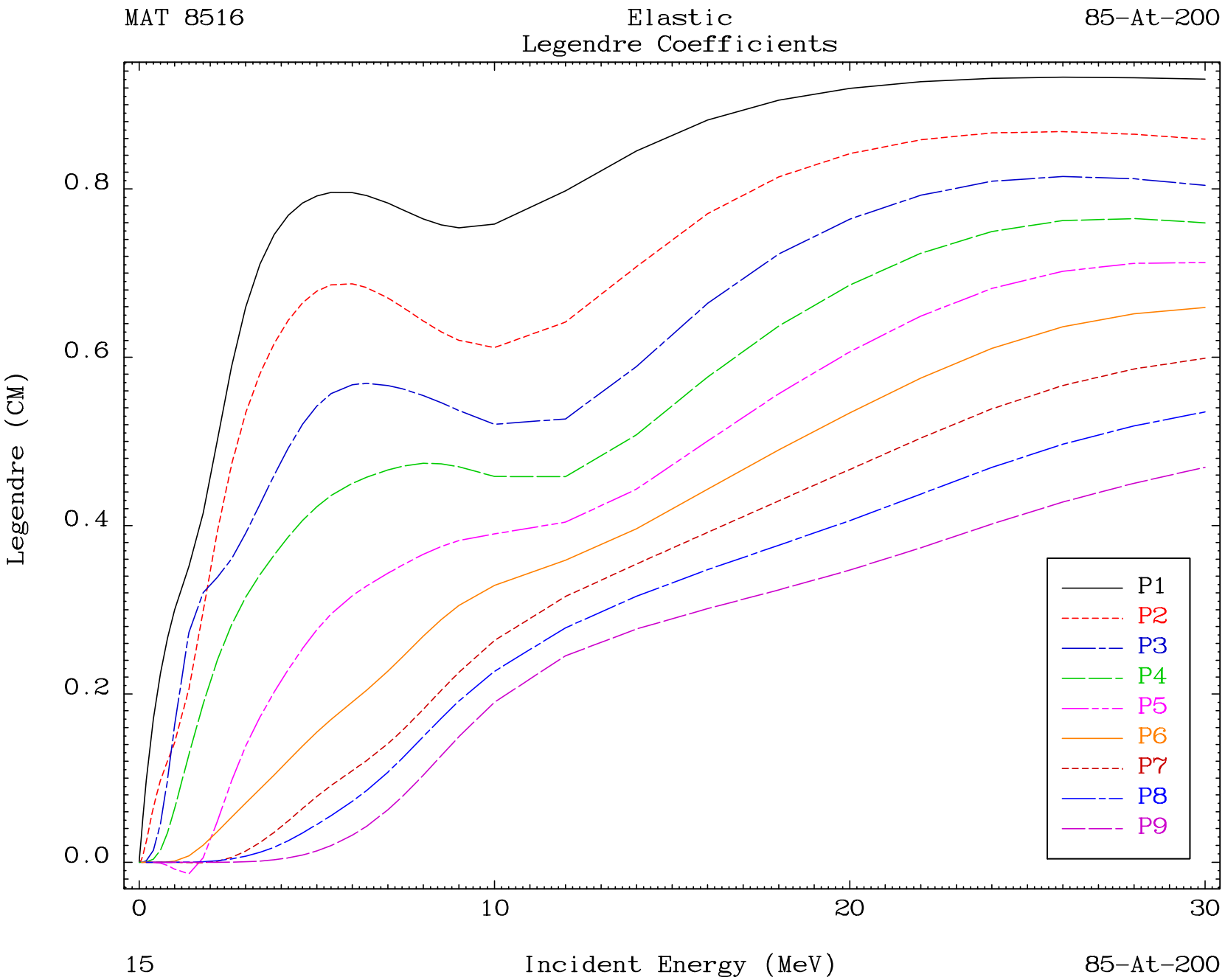

MAT 8516
(n,d) Levels
85-At-200
293 Kelvin Cross Sections
(n,d)
Cross Section (barns)
Incident Energy (MeV)
10
85-At-200

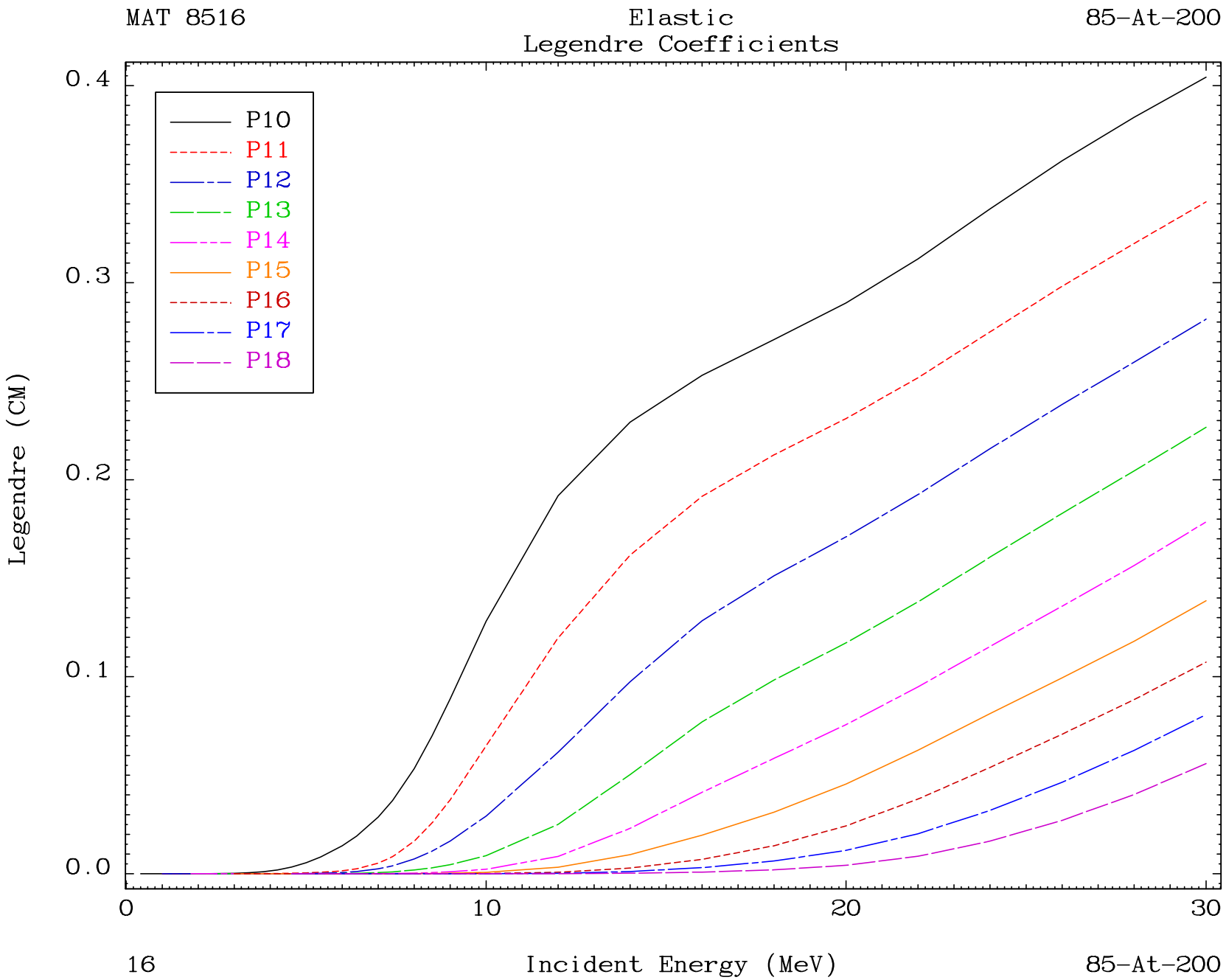

MAT 8516
(n,t) Levels
85-At-200
293 Kelvin Cross Sections
(n,t)
Cross Section (barns)
Incident Energy (MeV)
11
85-At-200

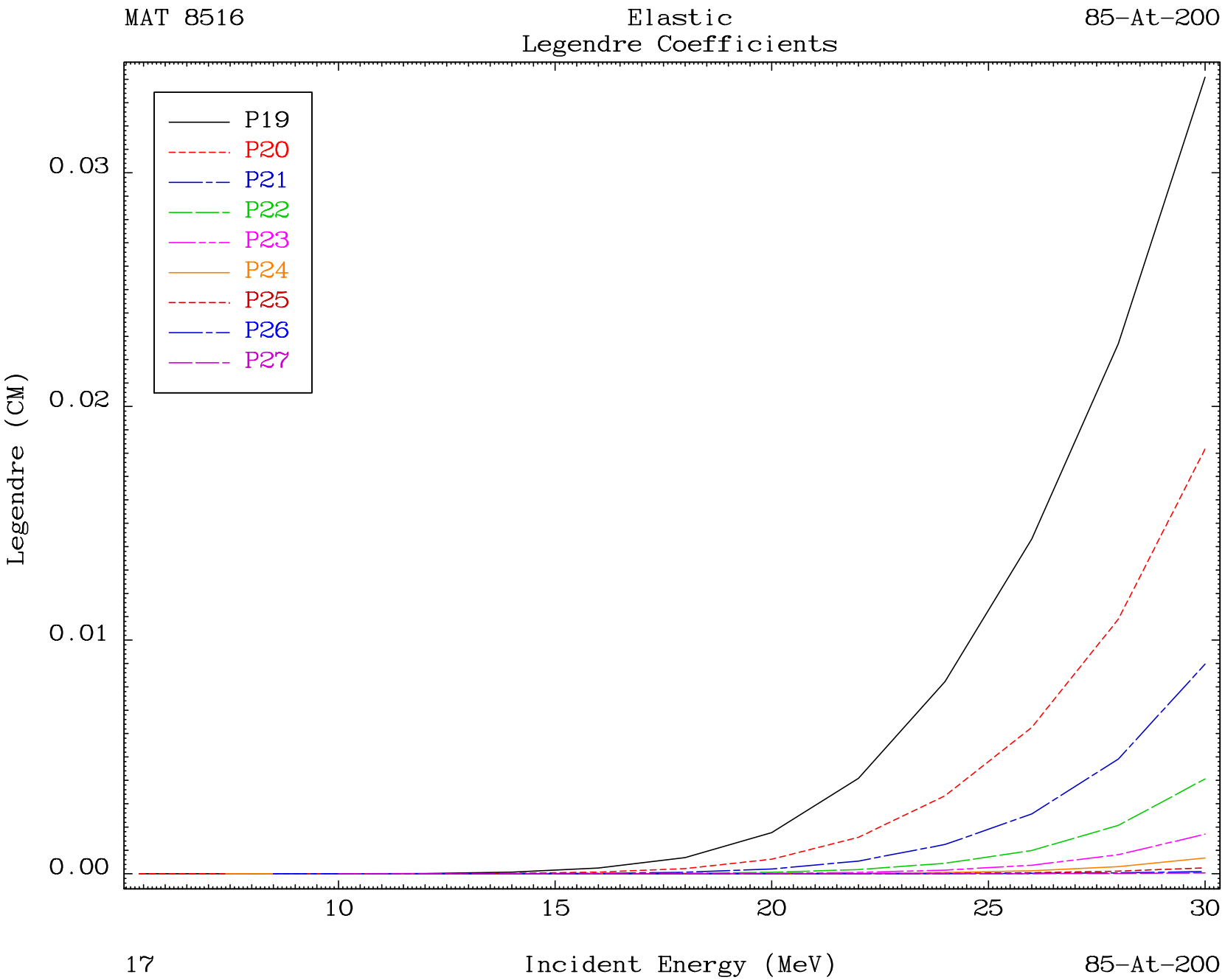

MAT 8516
(n,He3) Levels
85-At-200
293 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
Incident Energy (MeV)
12
85-At-200

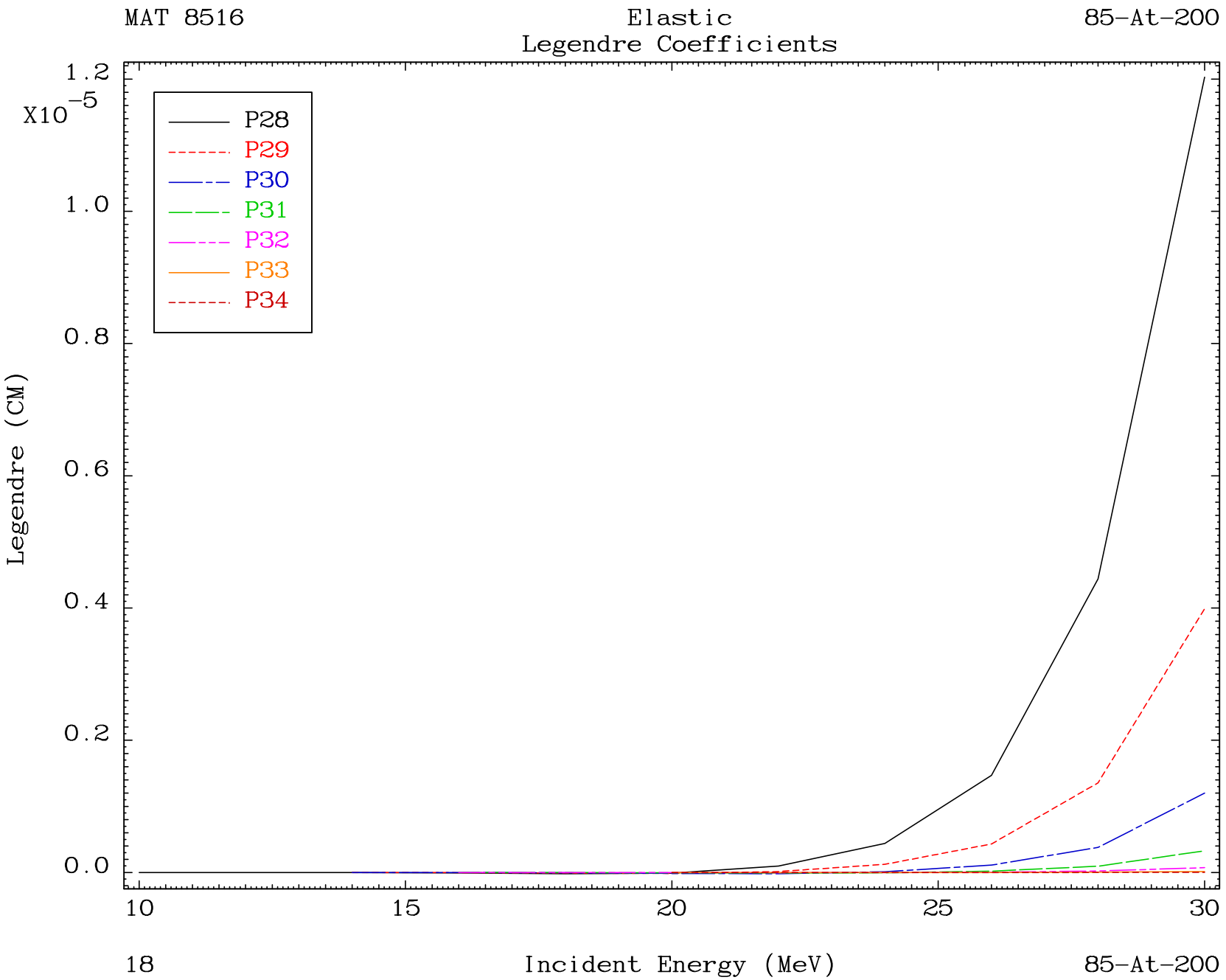

MAT 8516
(n,α) Levels
85-At-200
293 Kelvin Cross Sections
Cross Section (barns)
(n,α)
13
Incident Energy (MeV)
85-At-200

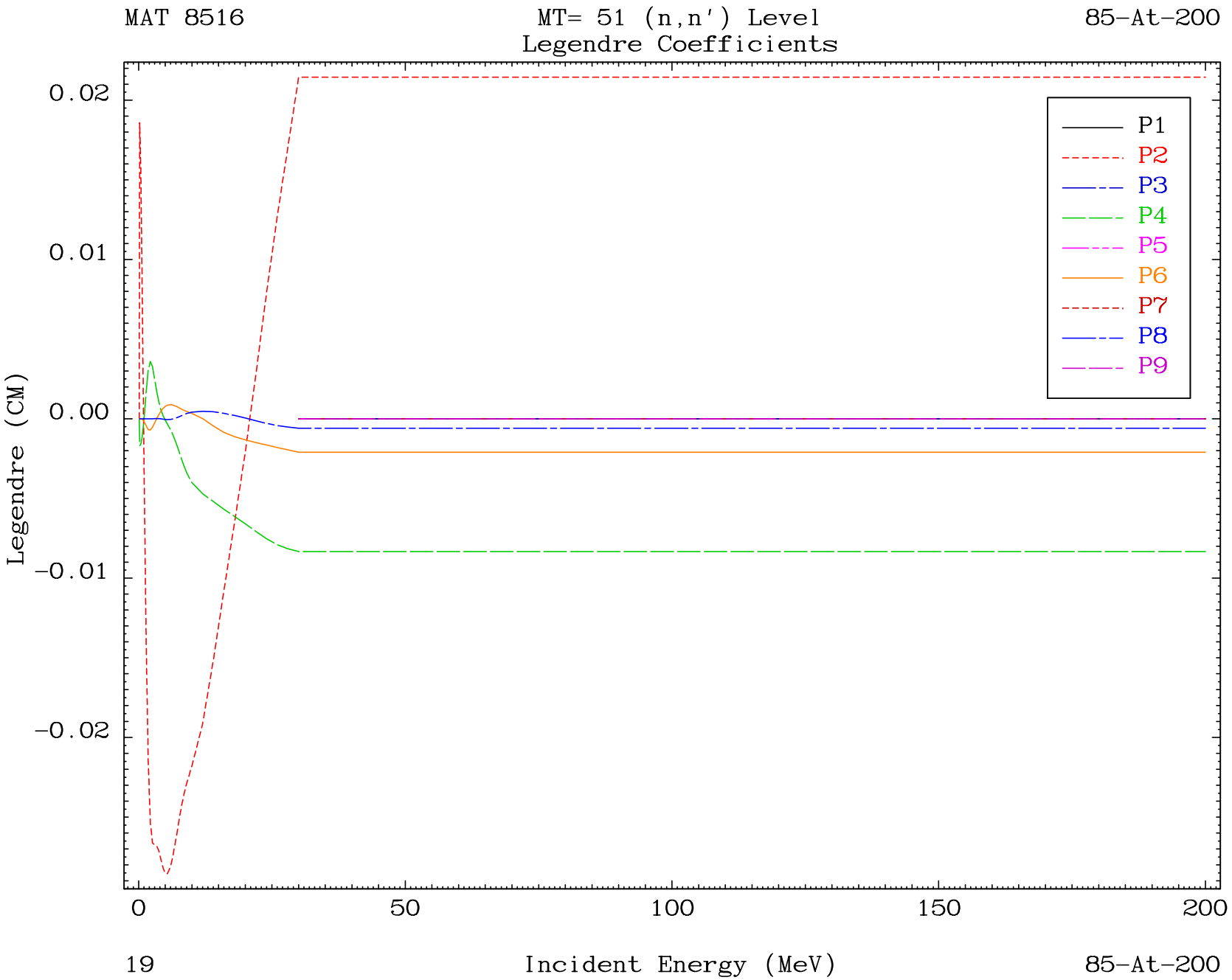

MAT 8516
Energy Release
Parameters
85-At-200
Kerma total (eV-barns)
Kerma elastic
Kerma non-elastic (all but mt2)
Kerma inelastic (mt51-91)
Kerma capture (mt102)
Total photon (eV-barns)
Total kinematic kerma (high limit)
Dpa total (eV-barns)
Dpa elastic (mt2)
Dpa inelastic (mt51-91)
Dpa disappearance (mt102 -120)
Parameters
Incident Energy (MeV)
14
85-At-200

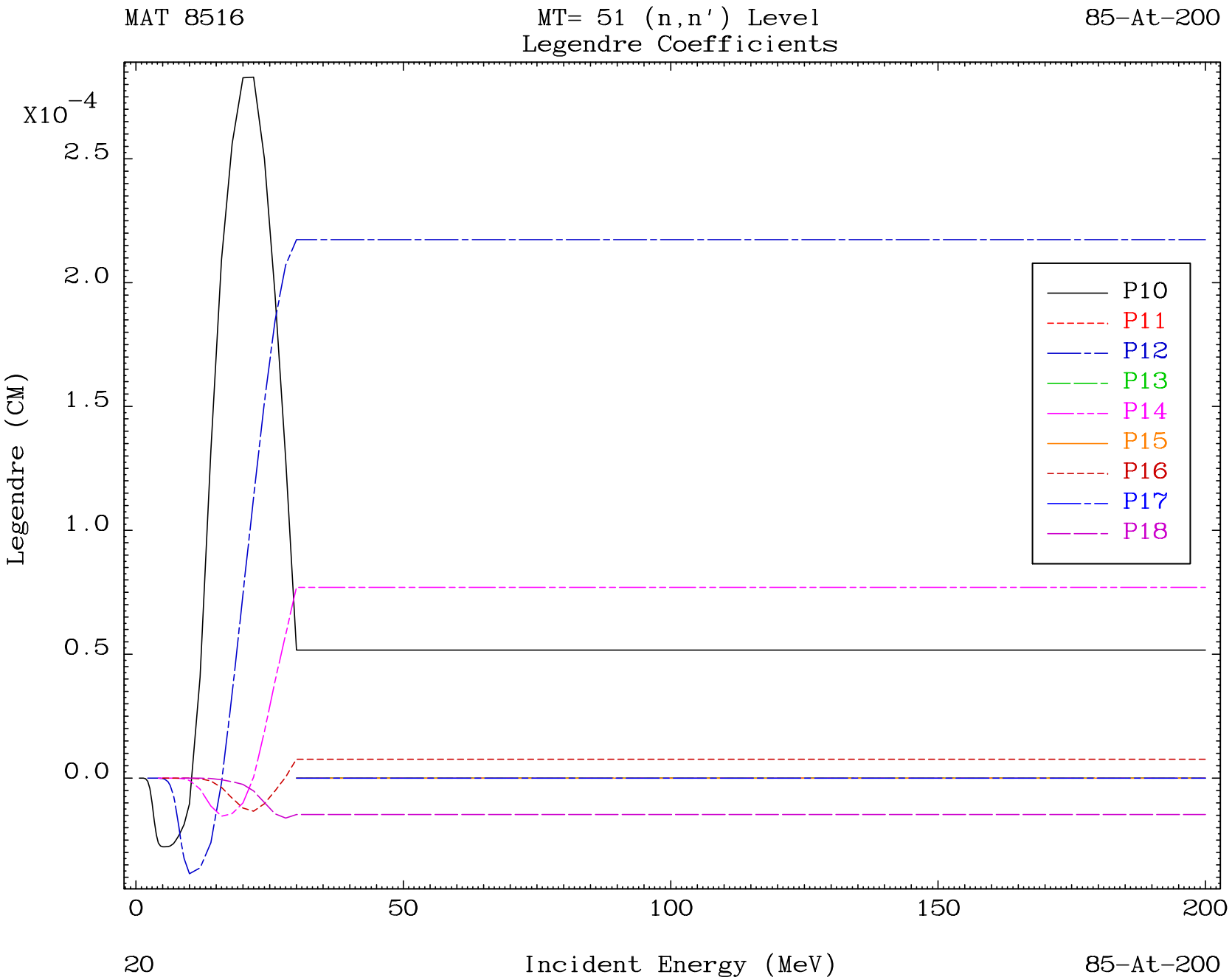

MAT 8516
Elastic
Legendre Coefficients
85-At-200
Legendre (CM)
0.0
0.2
0.4
0.6
0.8
0
10
20
30
15
Incident Energy (MeV)
85-At-200
P1
P2
P3
P4
P5
P6
P7
P8
P9

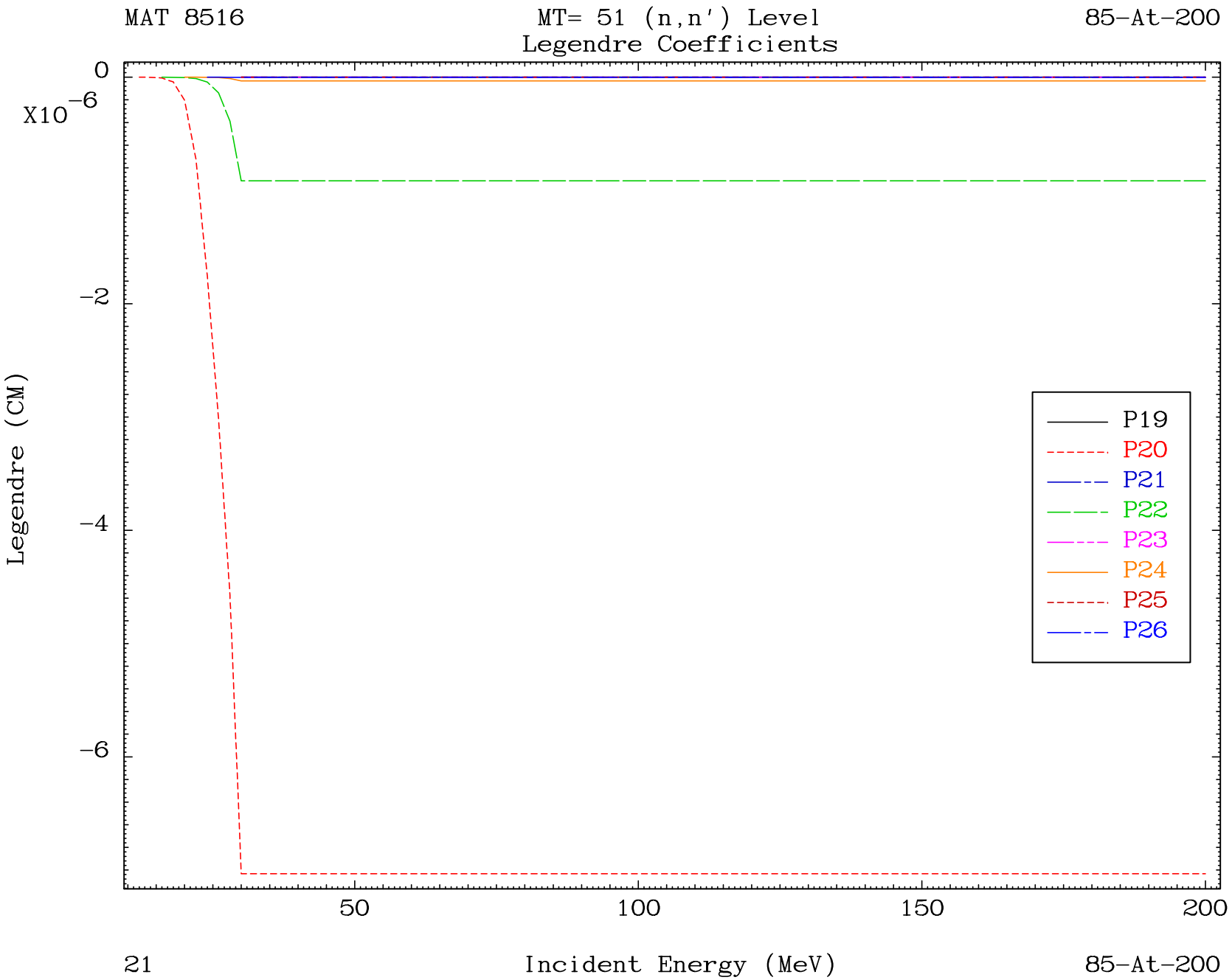

MAT 8516
Elastic
Legendre Coefficients
85-At-200
P10
P11
P12
P13
P14
P15
P16
P17
P18
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
10
20
30
16
Incident Energy (MeV)
85-At-200

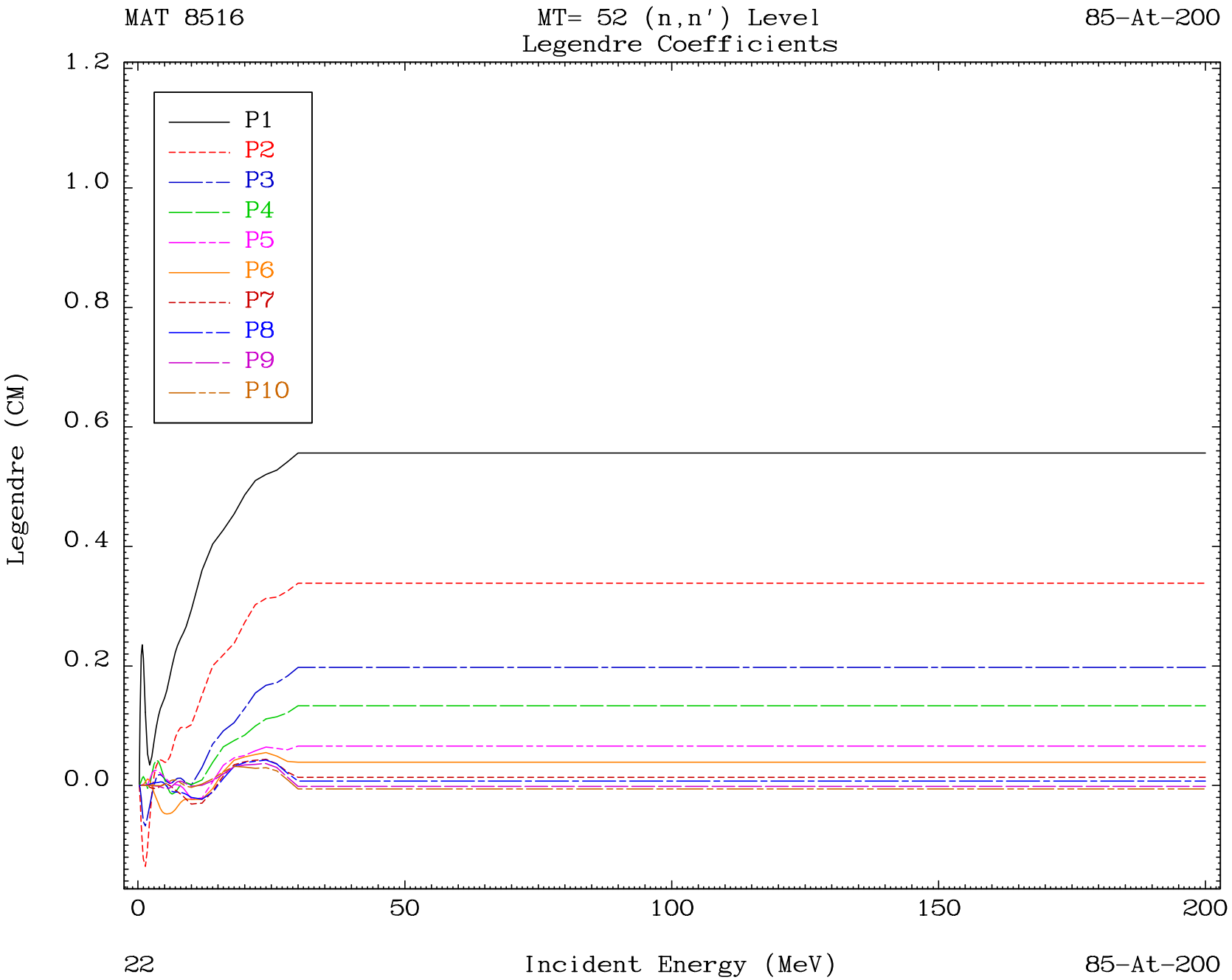

MAT 8516
Elastic
Legendre Coefficients
85-At-200
P19
P20
P21
P22
P23
P24
P25
P26
P27
Legendre (CM)
0.03
0.02
0.01
0.00
10
15
20
25
30
17
Incident Energy (MeV)
85-At-200

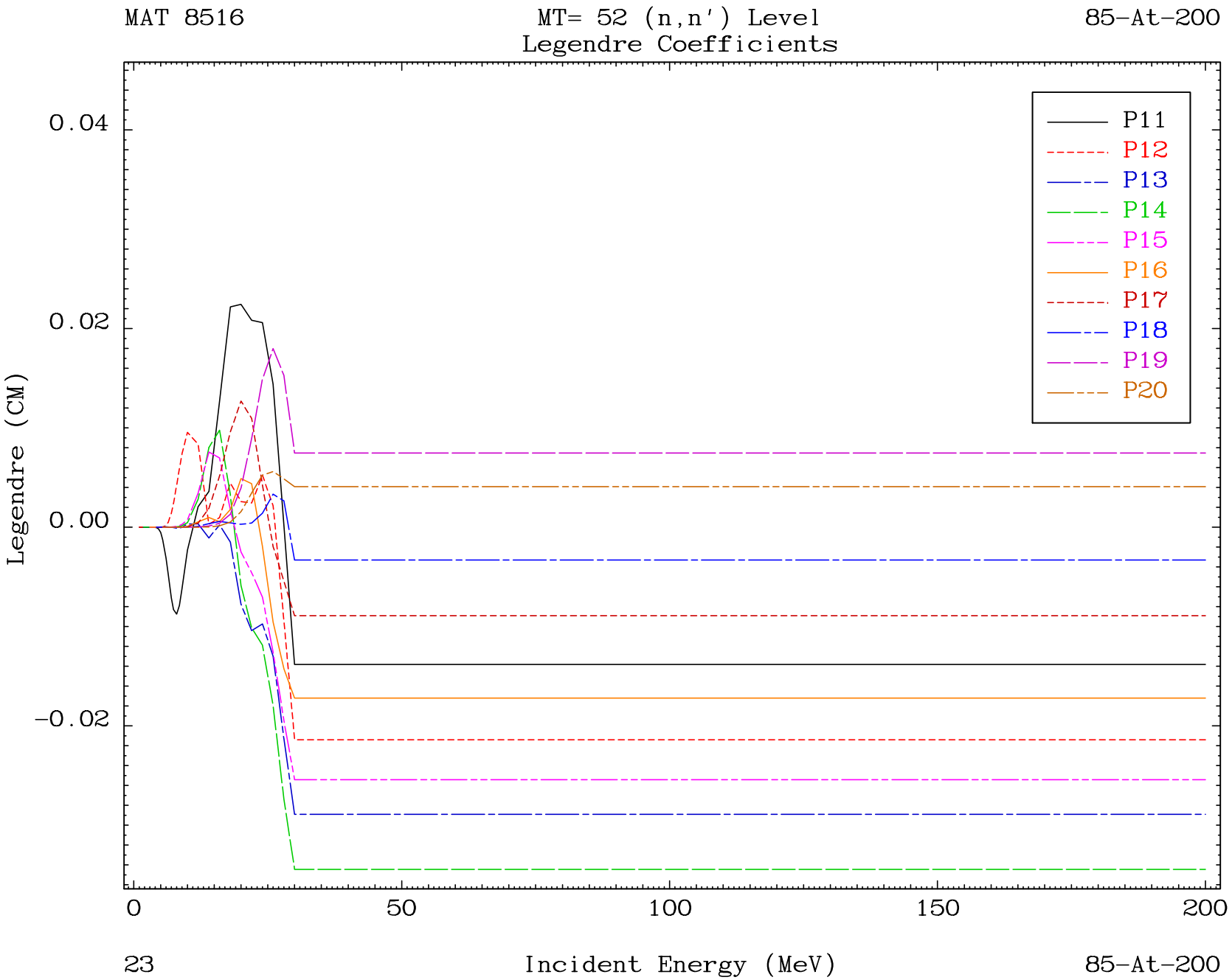

MAT 8516
Elastic
Legendre Coefficients
85-At-200
X10 −5
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
10
15
20
25
30
18
Incident Energy (MeV)
85-At-200

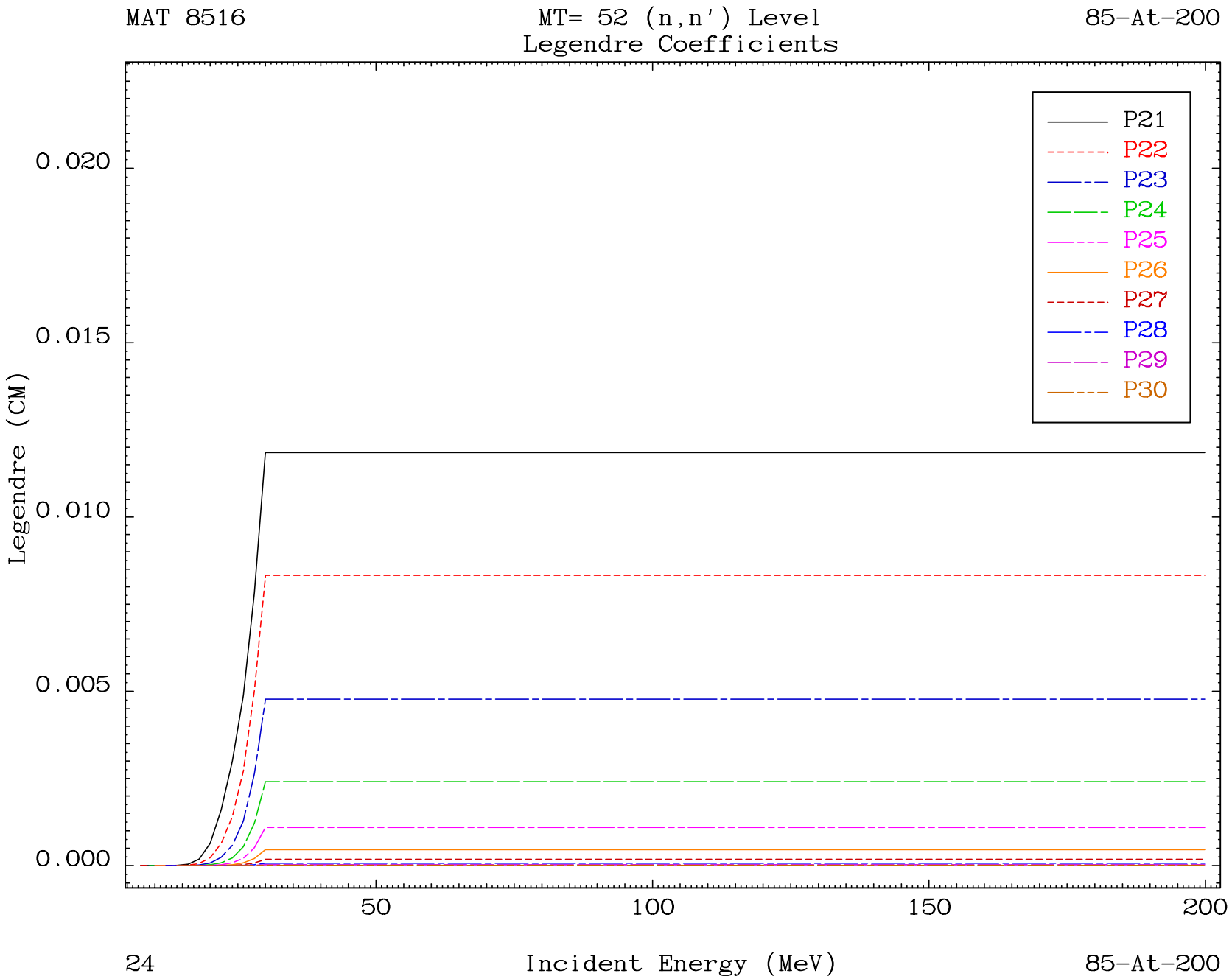

MAT 8516
MT= 51 (n,n') Level
Legendre Coefficients
85-At-200
0.02
0.01
0.00
-0.01
-0.02
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
19
Incident Energy (MeV)
85-At-200

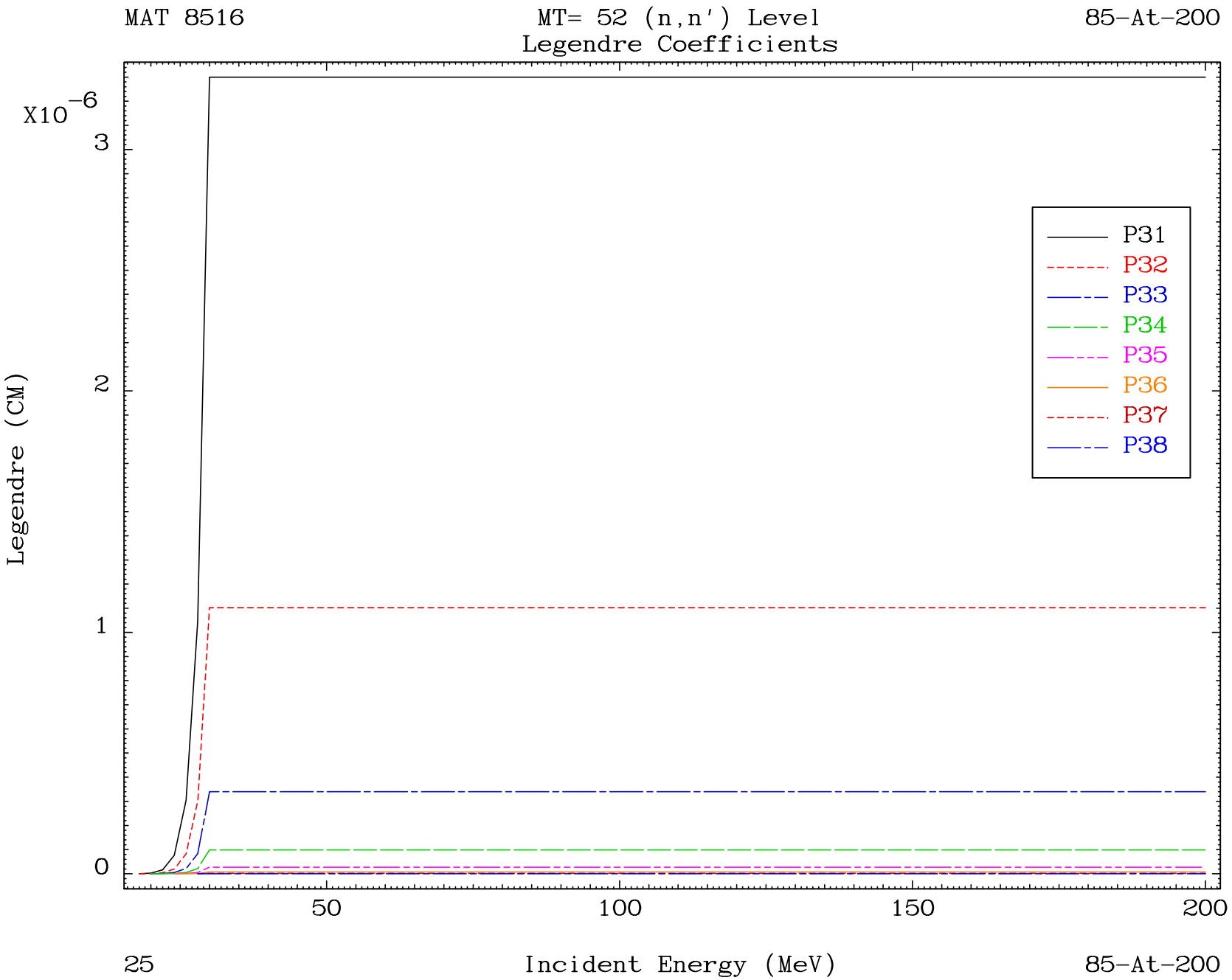

MAT 8516
MT= 51 (n,n') Level
Legendre Coefficients
85-At-200
X10^-4
2.5
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
20
Incident Energy (MeV)
85-At-200

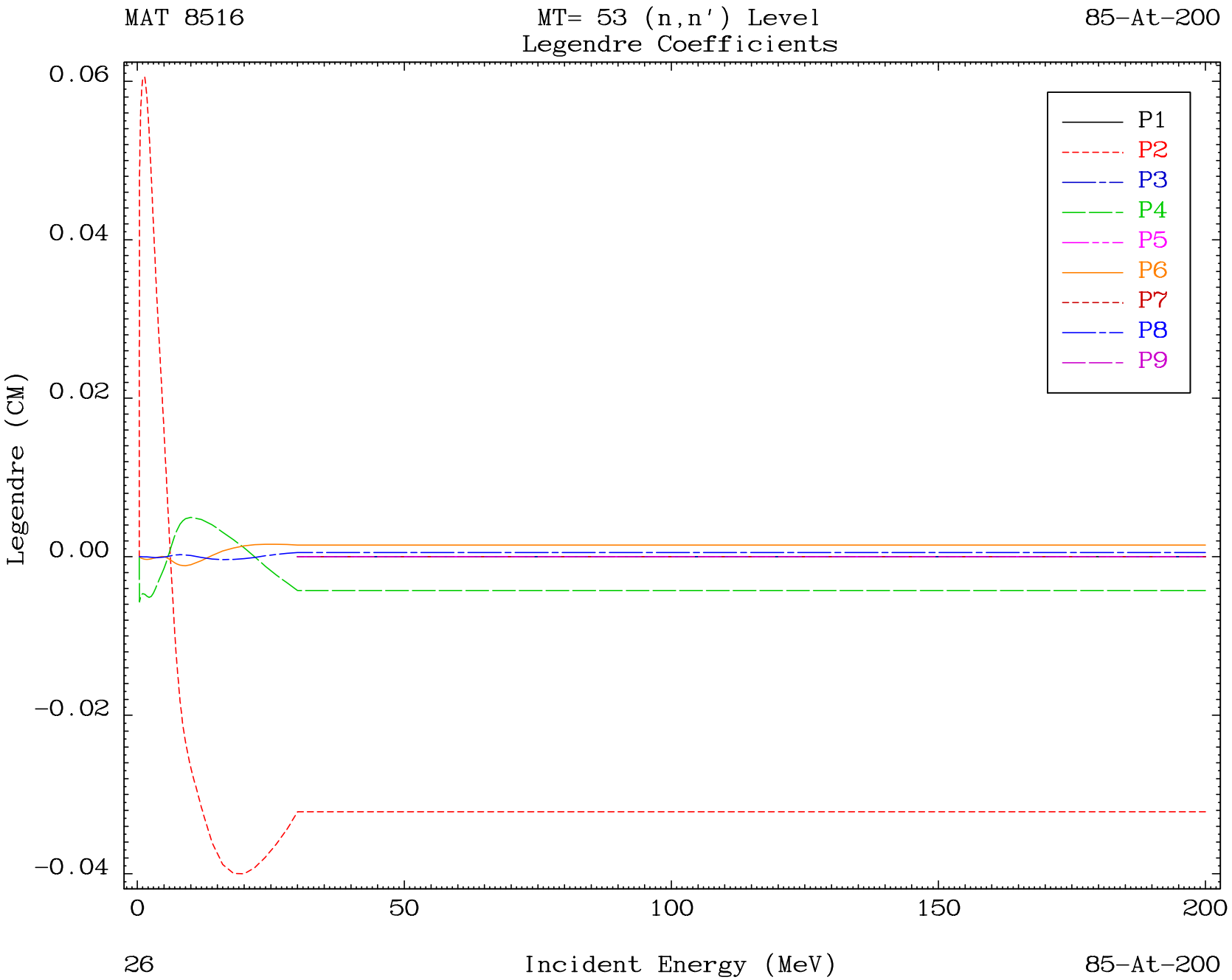

MAT 8516
MT= 51 (n,n') Level
Legendre Coefficients
85-At-200
0
X10^-6
-2
-4
-6
Legendre (CM)
50
100
150
200
21
Incident Energy (MeV)
85-At-200
P19
P20
P21
P22
P23
P24
P25
P26

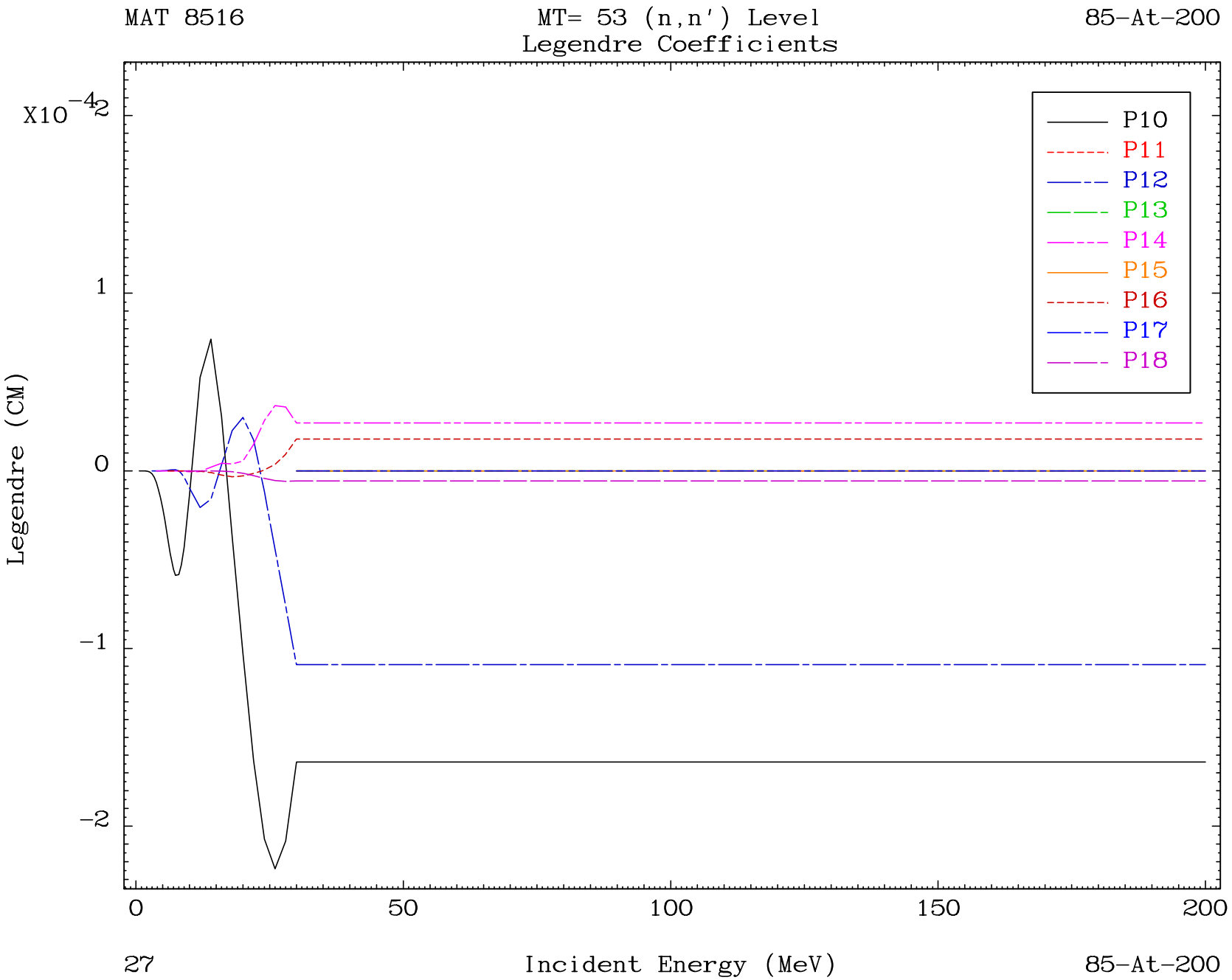

MAT 8516
MT= 52 (n,n') Level
Legendre Coefficients
85-At-200
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
Legendre (CM)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0
50
100
150
200
22
Incident Energy (MeV)
85-At-200

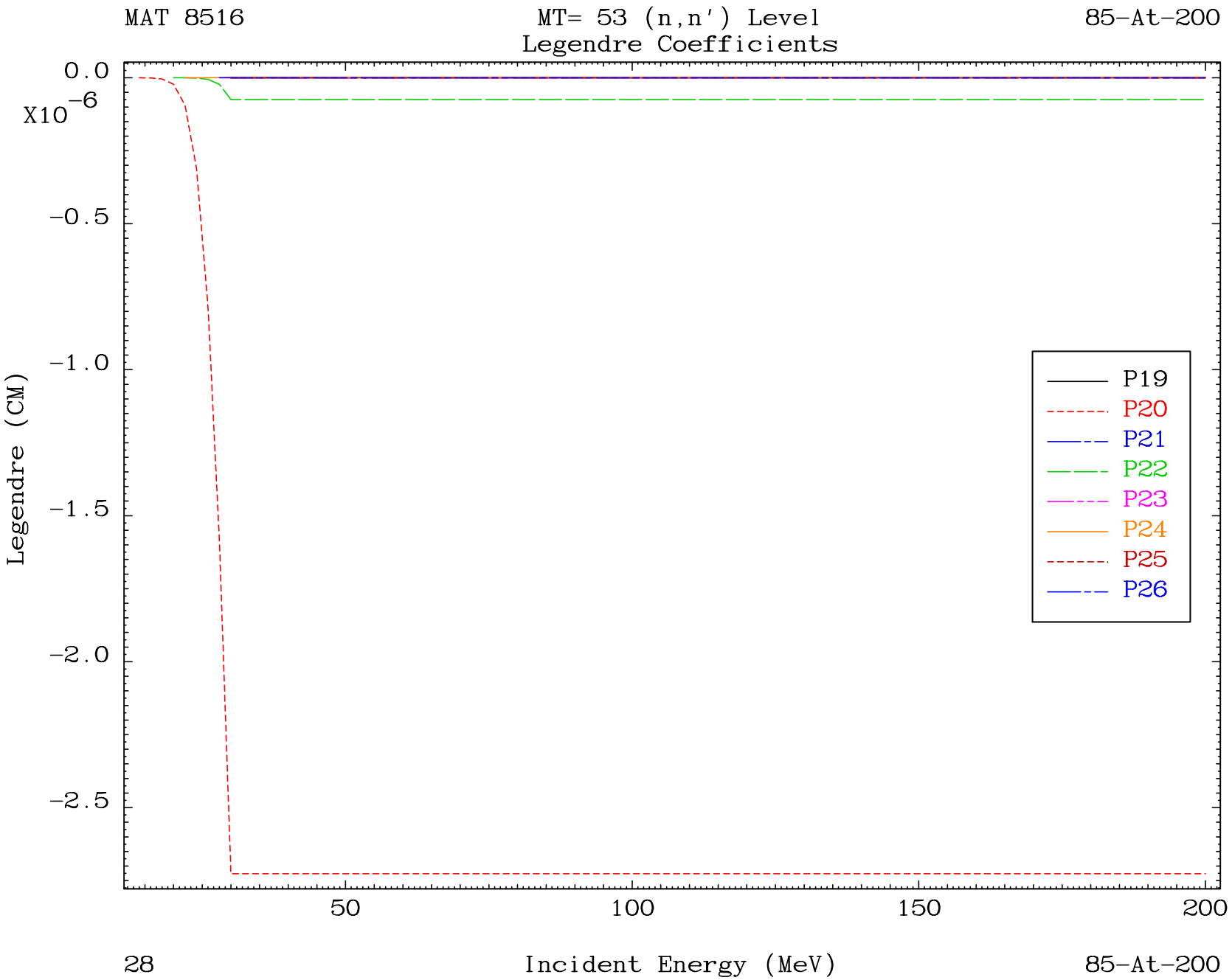

MAT 8516
MT= 52 (n,n') Level
Legendre Coefficients
85-At-200
0.04
0.02
0.00
-0.02
Legendre (CM)
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0
50
100
150
200
23
Incident Energy (MeV)
85-At-200

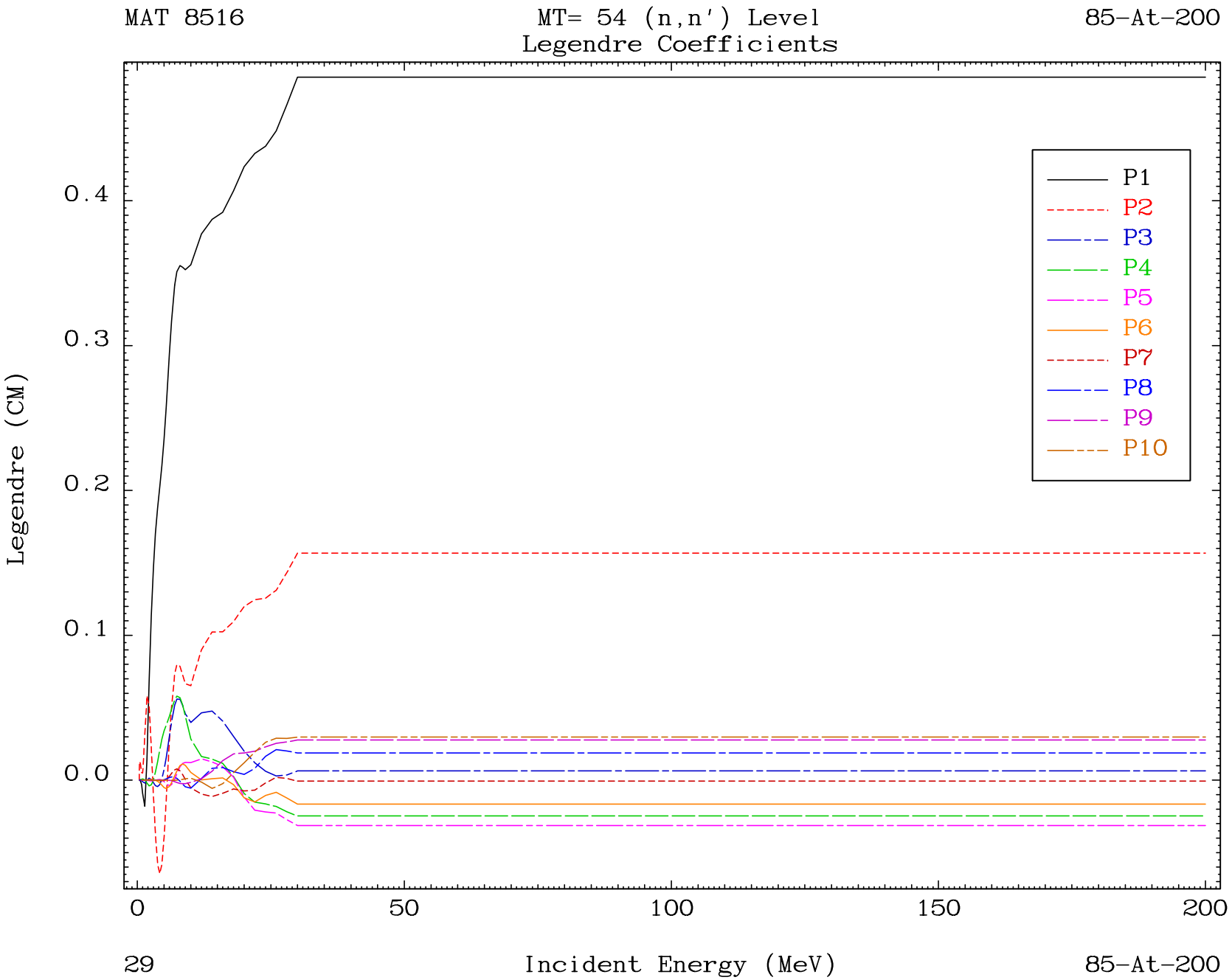

MAT 8516
MT= 52 (n,n') Level
Legendre Coefficients
85-At-200
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
0.020
0.015
0.010
0.005
0.000
Legendre (CM)
50
100
150
200
24
Incident Energy (MeV)
85-At-200

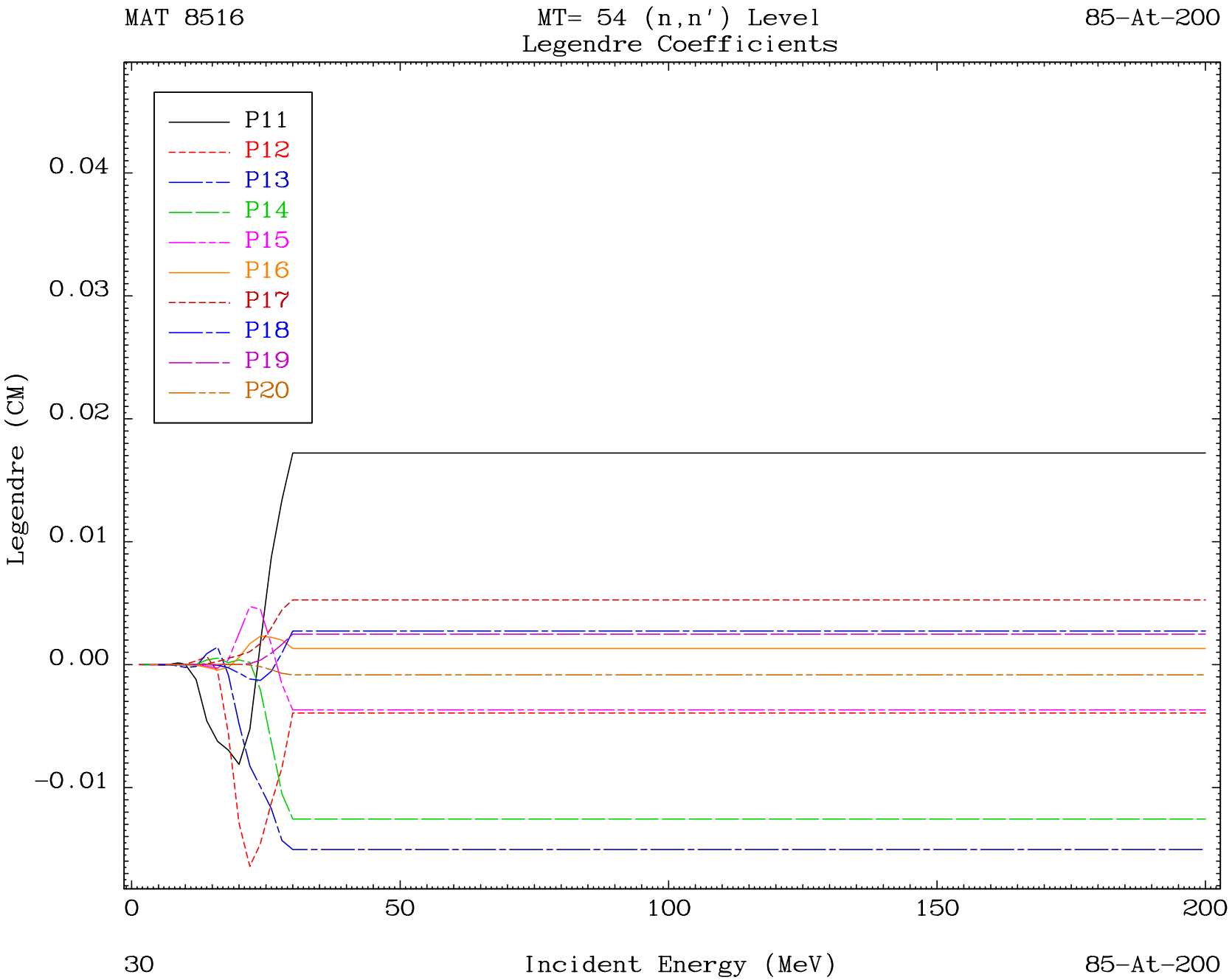

MAT 8516
MT= 52 (n,n') Level
Legendre Coefficients
85-At-200
X10 −6
3
2
1
0
Legendre (CM)
P31
P32
P33
P34
P35
P36
P37
P38
50
100
150
200
25
Incident Energy (MeV)
85-At-200

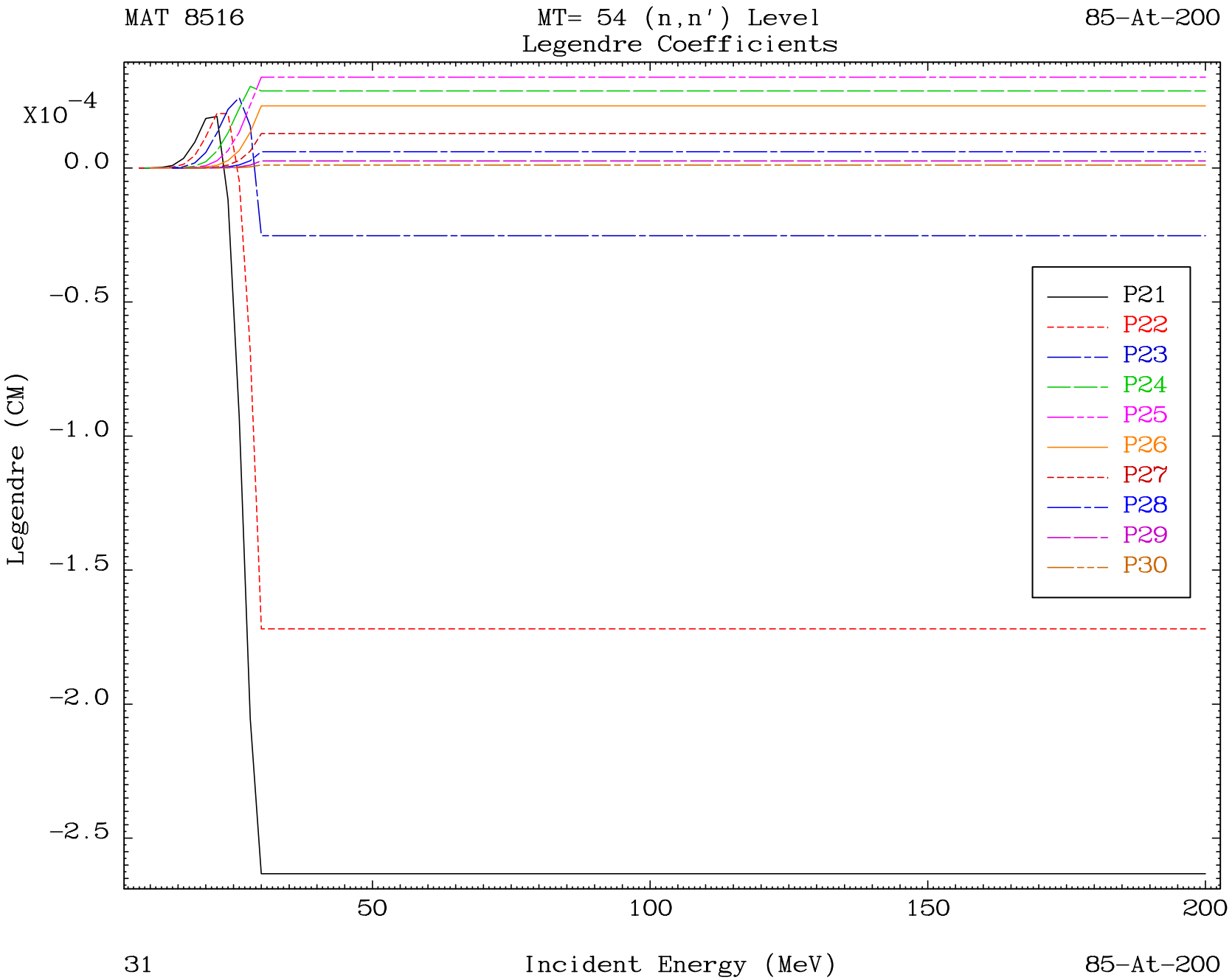

MAT 8516
MT= 53 (n,n') Level
Legendre Coefficients
85-At-200
0.06
0.04
0.02
0.00
-0.02
-0.04
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
26
Incident Energy (MeV)
85-At-200

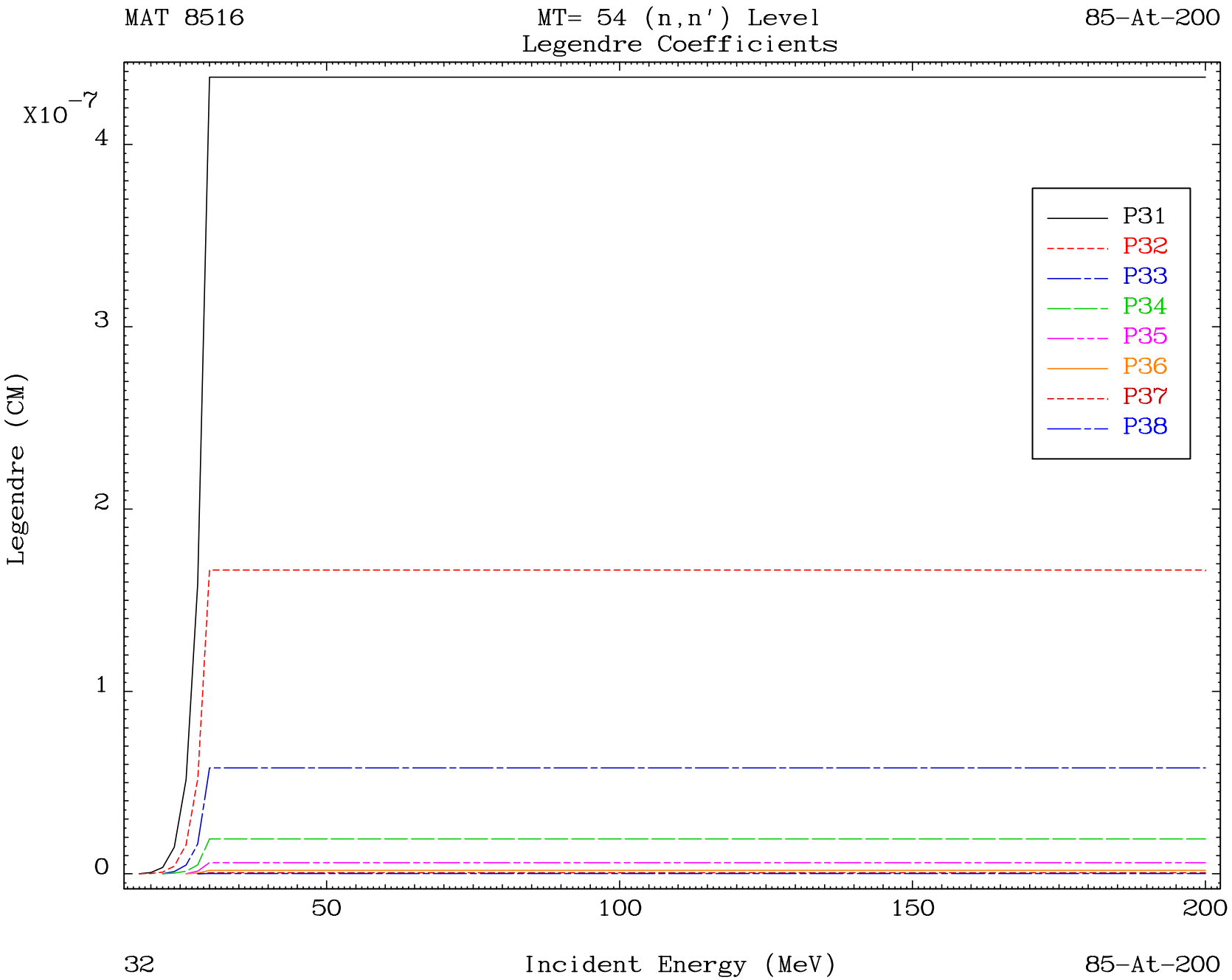

MAT 8516
MT= 53 (n,n') Level
Legendre Coefficients
85-At-200
X10^-4
2
1
0
-1
-2
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
27
Incident Energy (MeV)
85-At-200

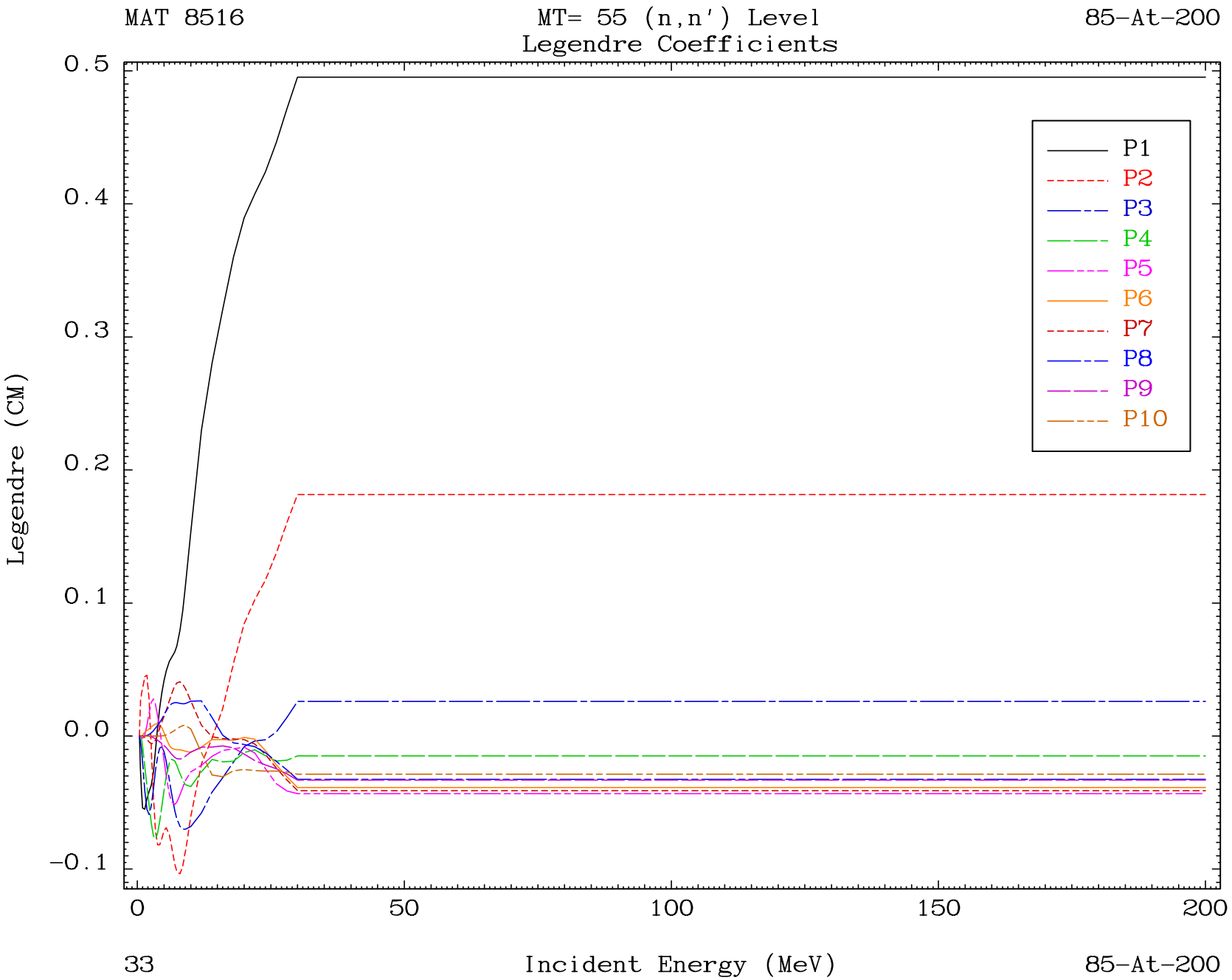

MAT 8516
MT= 53 (n,n') Level
Legendre Coefficients
85-At-200
0.0
X10^-6
-0.5
-1.0
-1.5
-2.0
-2.5
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
50
100
150
200
28
Incident Energy (MeV)
85-At-200

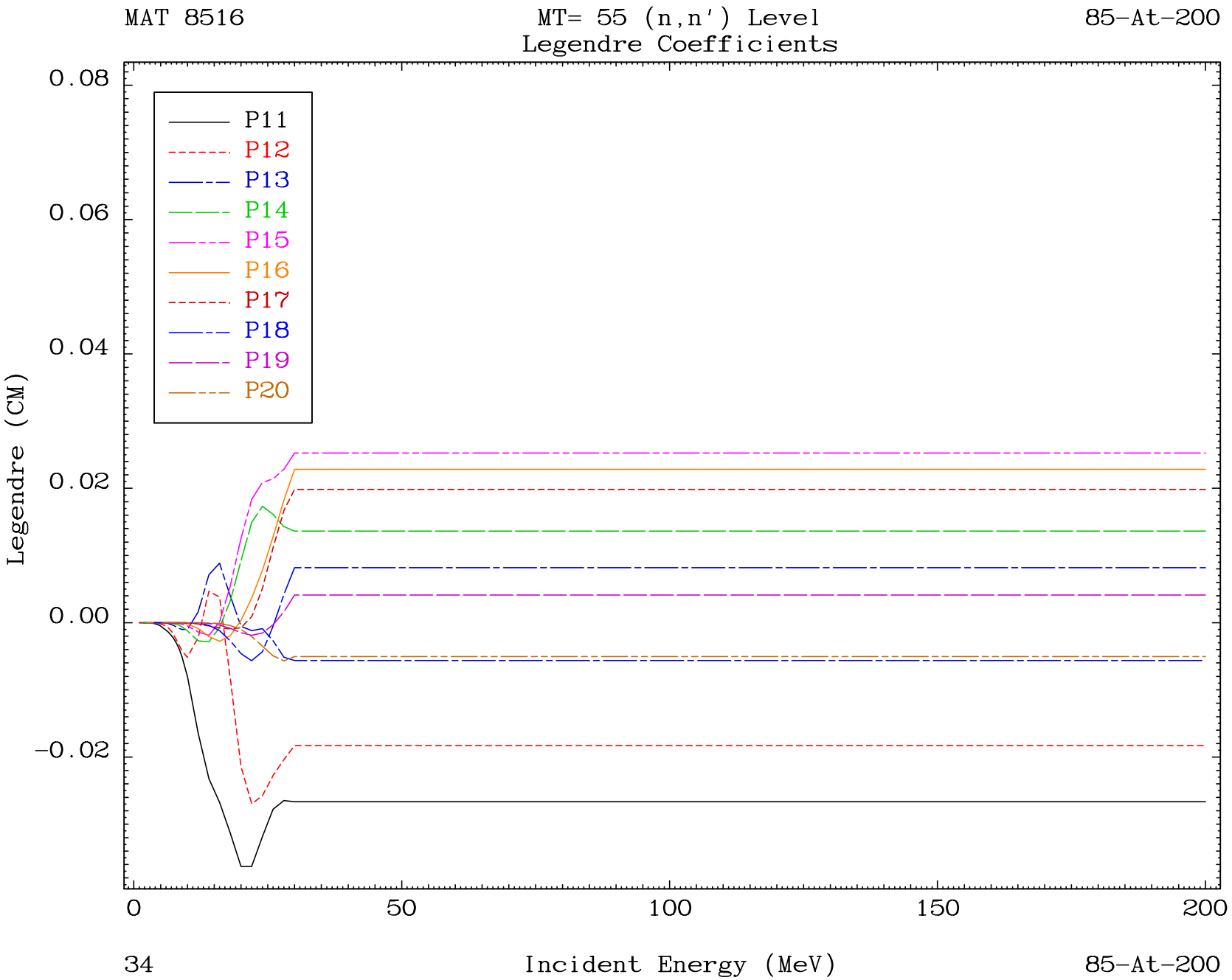

MAT 8516
MT= 54 (n,n') Level
Legendre Coefficients
85-At-200
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
29
Incident Energy (MeV)
85-At-200

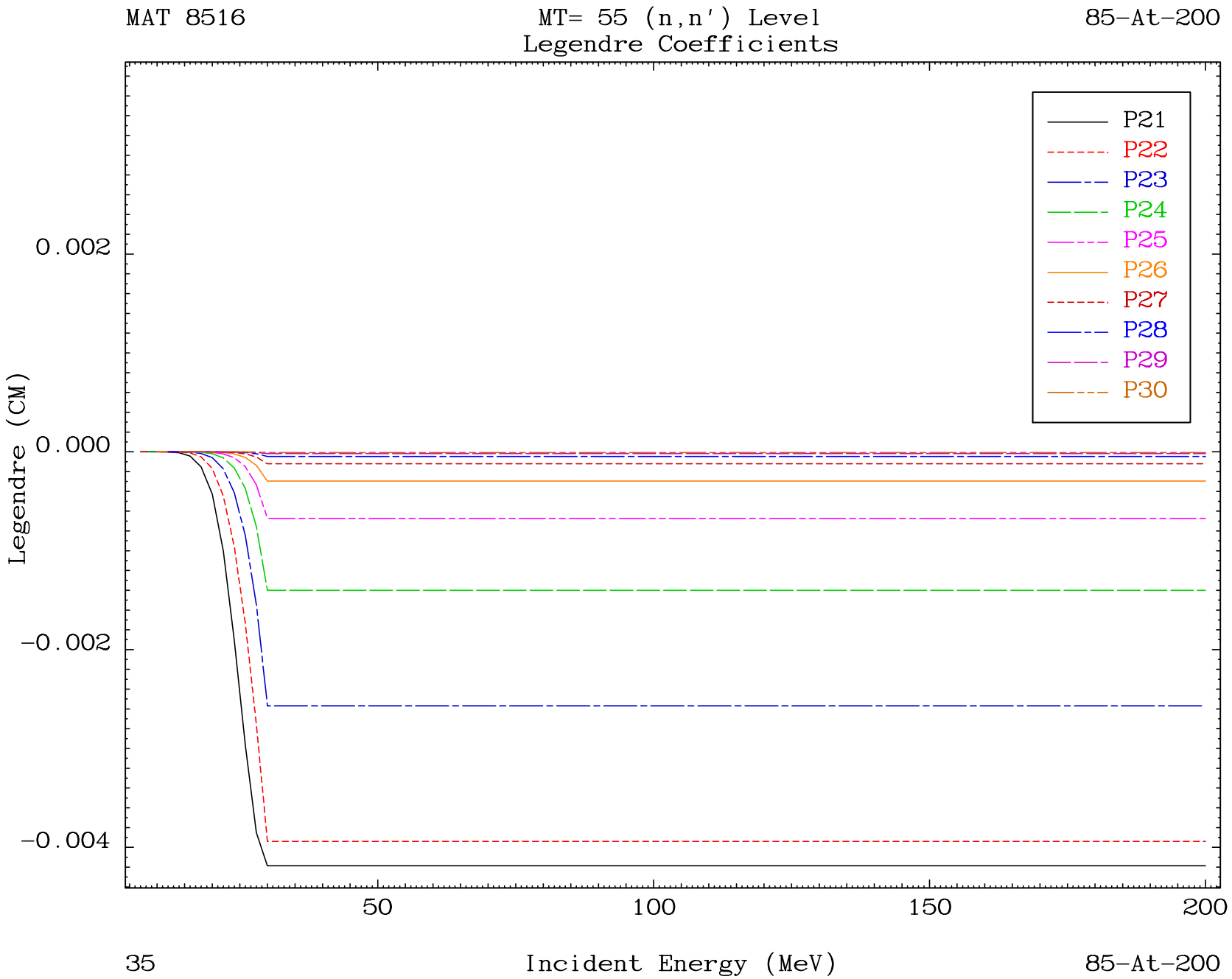

MAT 8516
MT= 54 (n,n') Level
Legendre Coefficients
85-At-200
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.04
0.03
0.02
0.01
0.00
-0.01
Legendre (CM)
0
50
100
150
200
30
Incident Energy (MeV)
85-At-200

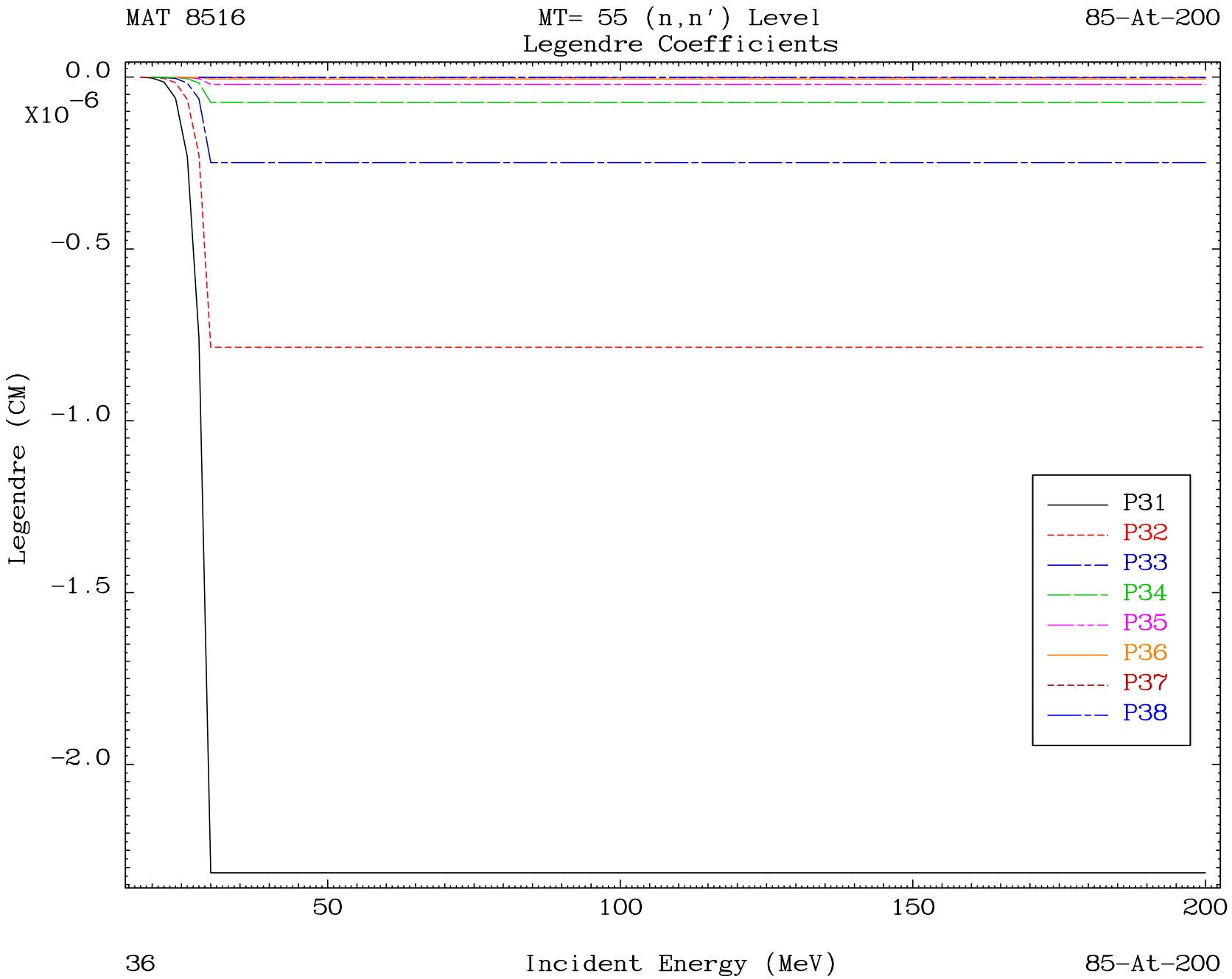

MAT 8516
MT= 54 (n,n') Level
Legendre Coefficients
85-At-200
X10^-4
0.0
-0.5
-1.0
-1.5
-2.0
-2.5
Legendre (CM)
50
100
150
200
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
31
Incident Energy (MeV)
85-At-200

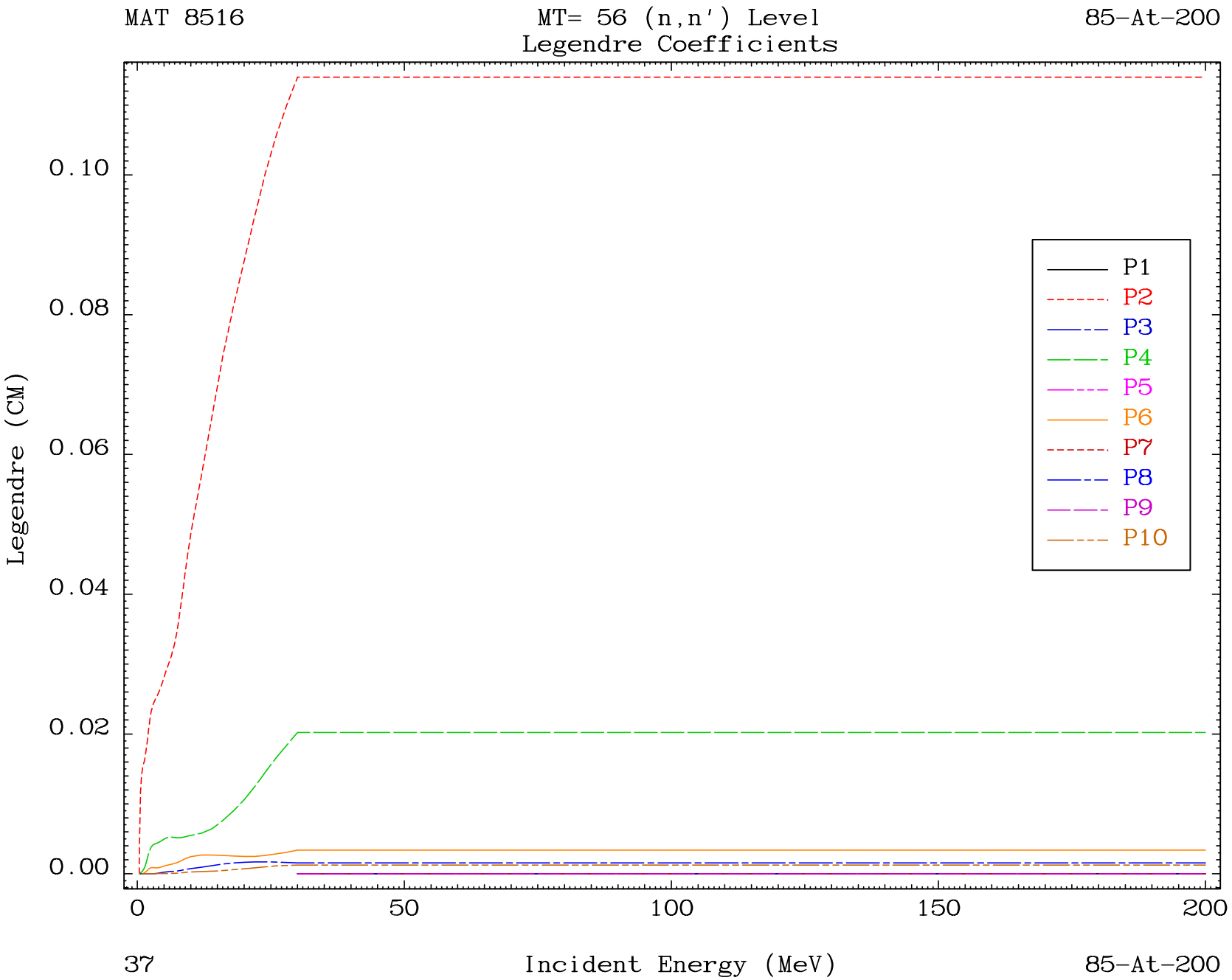

MAT 8516
MT= 54 (n,n') Level
Legendre Coefficients
85-At-200
X10^-7
4
3
2
1
0
Legendre (CM)
P31
P32
P33
P34
P35
P36
P37
P38
50
100
150
200
32
Incident Energy (MeV)
85-At-200

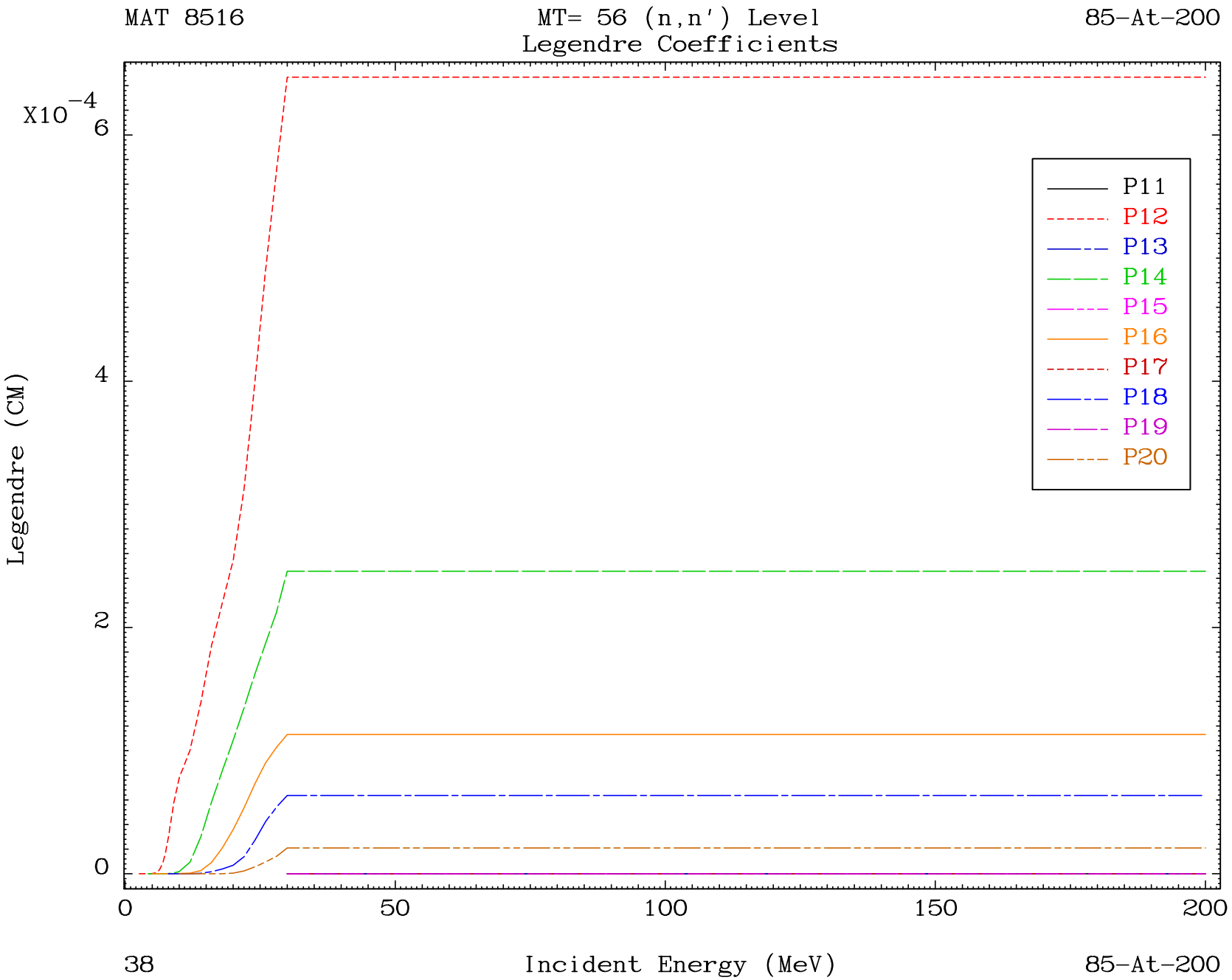

MAT 8516
MT= 55 (n,n') Level
Legendre Coefficients
85-At-200
0.5
0.4
0.3
0.2
0.1
0.0
-0.1
Legendre (CM)
0
50
100
150
200
33
Incident Energy (MeV)
85-At-200
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10

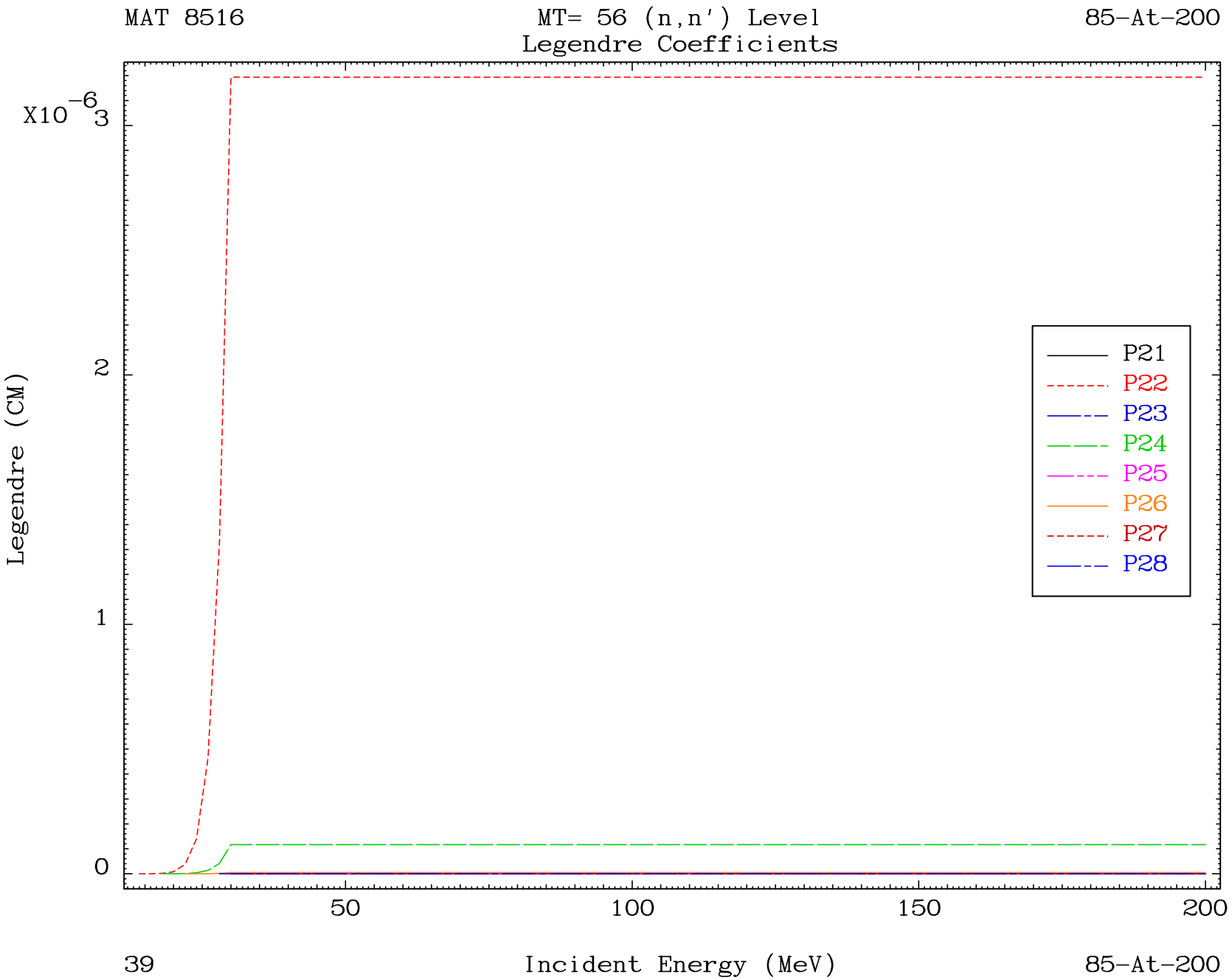

MAT 8516
MT= 55 (n,n') Level
Legendre Coefficients
85-At-200
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.08
0.06
0.04
0.02
0.00
-0.02
Legendre (CM)
0
50
100
150
200
34
Incident Energy (MeV)
85-At-200

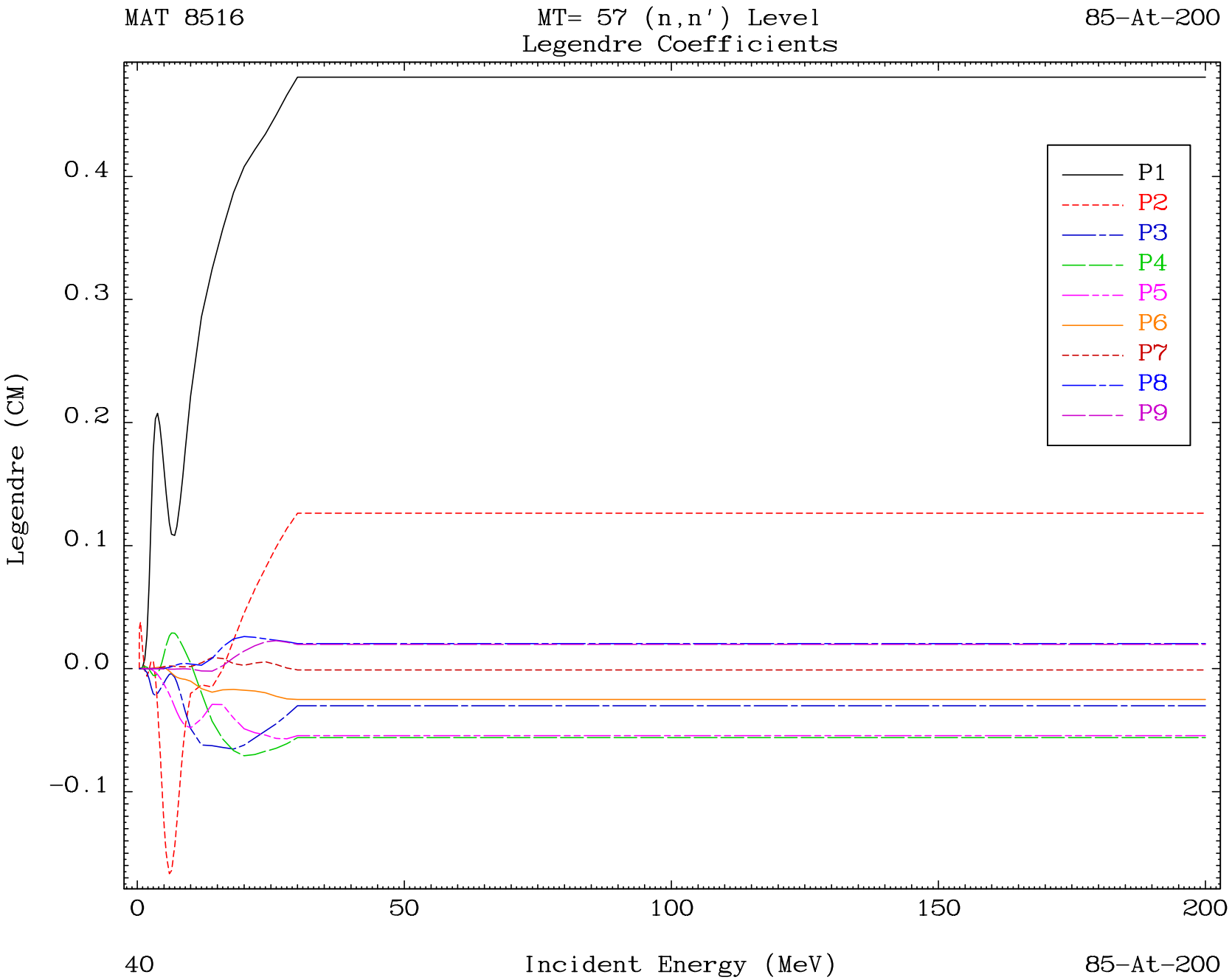

MAT 8516
MT= 55 (n,n') Level
Legendre Coefficients
85-At-200
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
0.002
0.000
-0.002
-0.004
Legendre (CM)
50
100
150
200
35
Incident Energy (MeV)
85-At-200

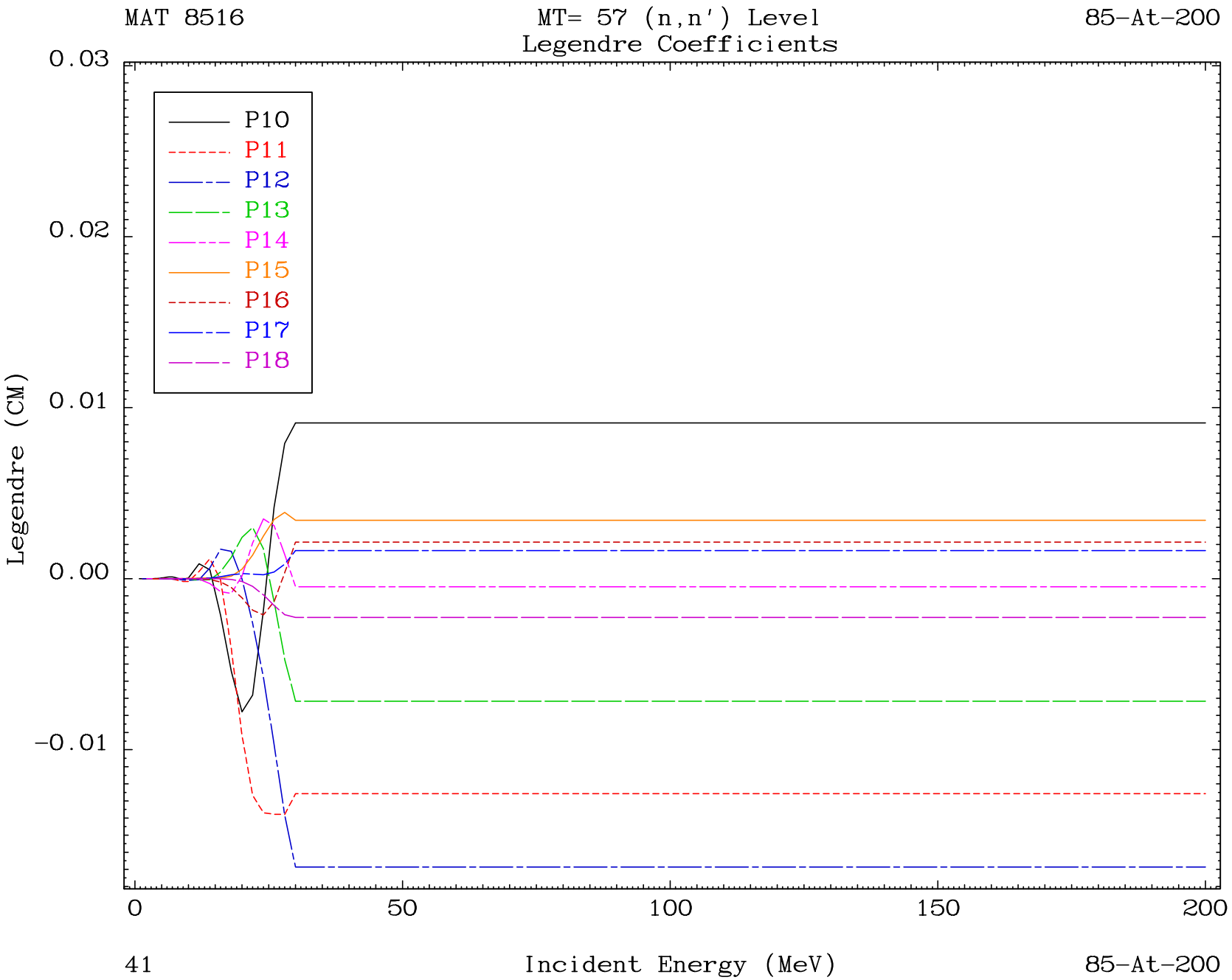

MAT 8516
MT= 55 (n,n') Level
Legendre Coefficients
85-At-200
0.0
X10 −6
−0.5
−1.0
−1.5
−2.0
Legendre (CM)
50
100
150
200
36
Incident Energy (MeV)
85-At-200
P31
P32
P33
P34
P35
P36
P37
P38

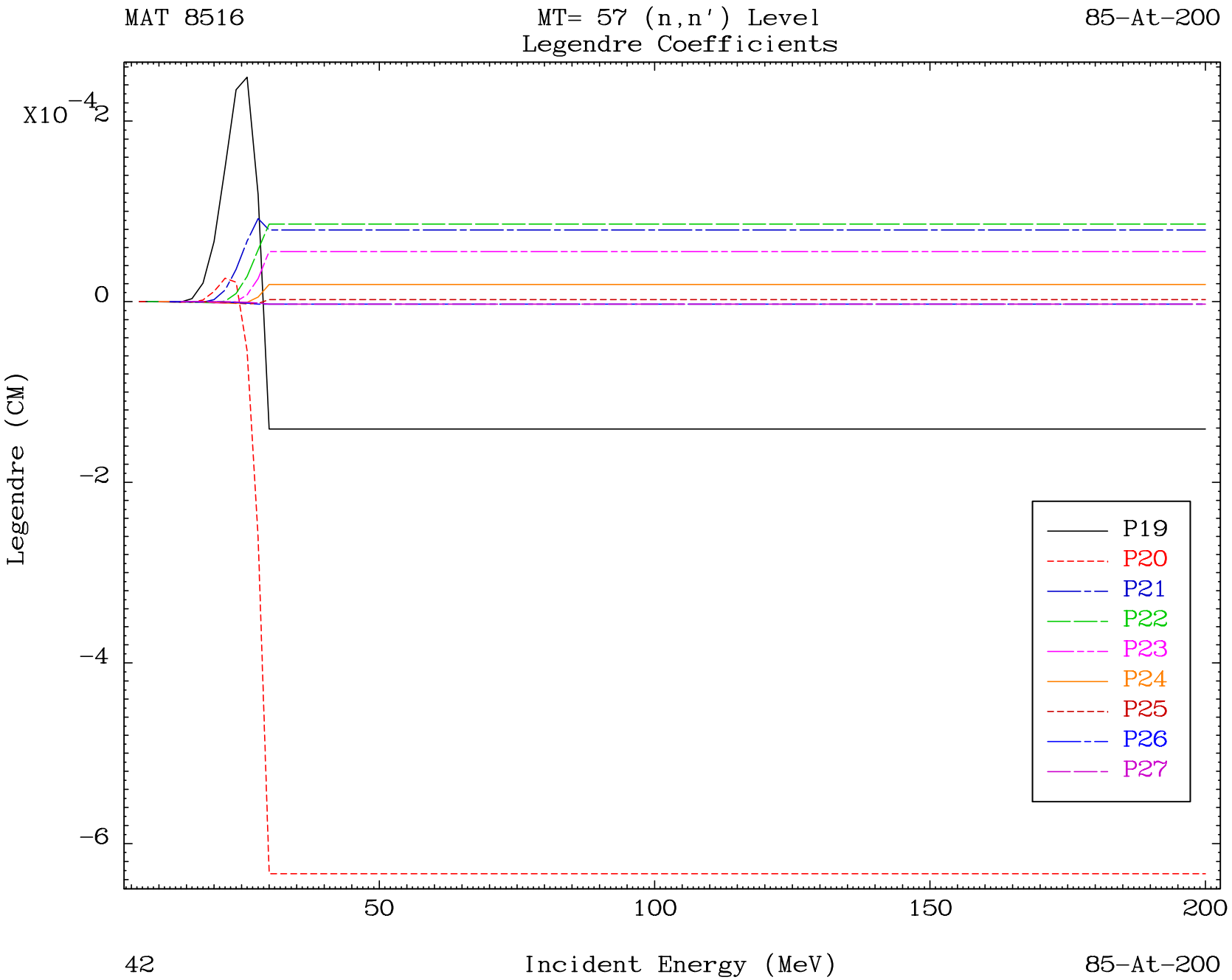

MAT 8516
MT= 56 (n,n') Level
Legendre Coefficients
85-At-200
Legendre (CM)
0.10
0.08
0.06
0.04
0.02
0.00
0
50
100
150
200
37
Incident Energy (MeV)
85-At-200
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10

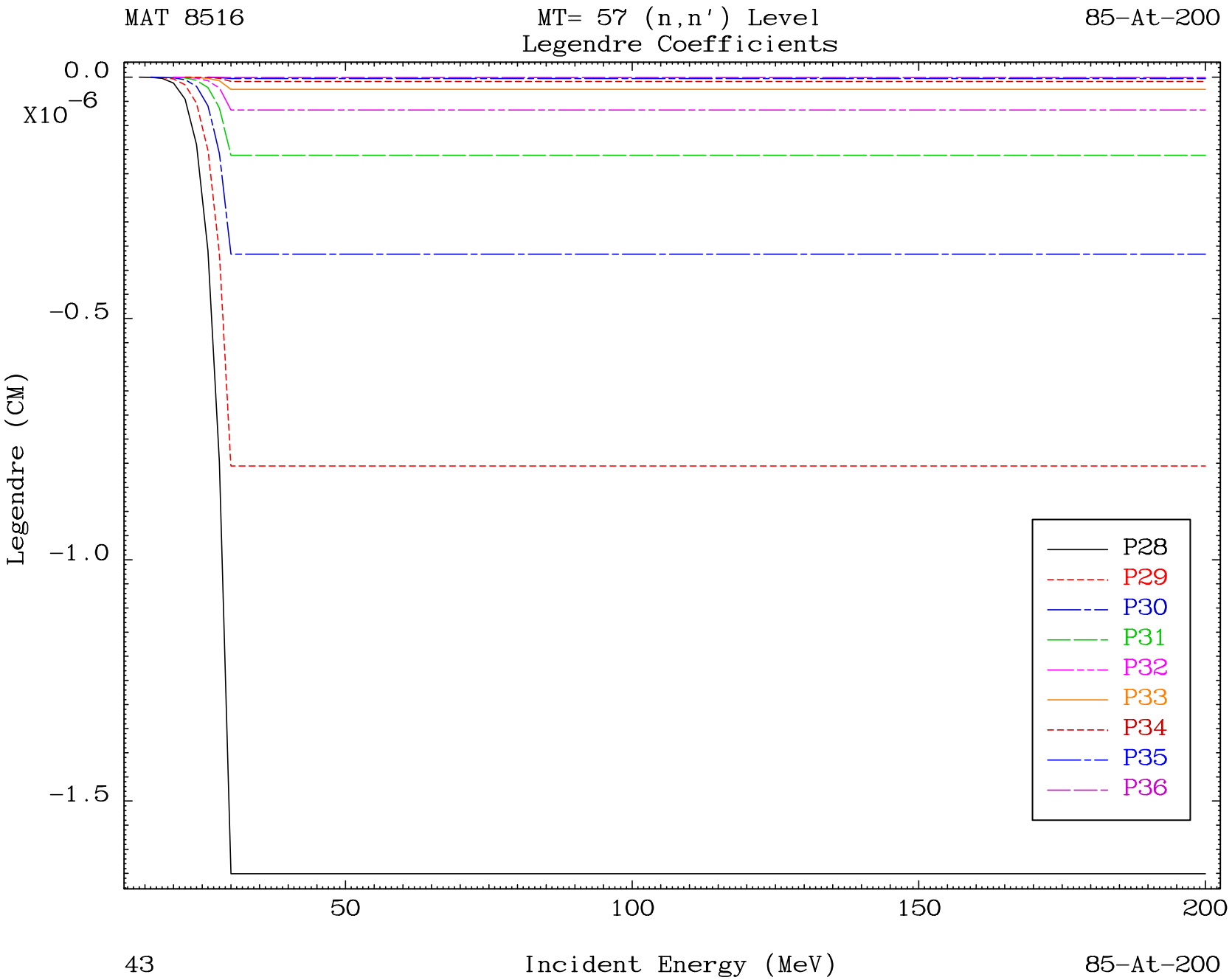

MAT 8516
MT= 56 (n,n') Level
Legendre Coefficients
85-At-200
X10 -4
6
4
2
0
Legendre (CM)
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0
50
100
150
200
38
Incident Energy (MeV)
85-At-200

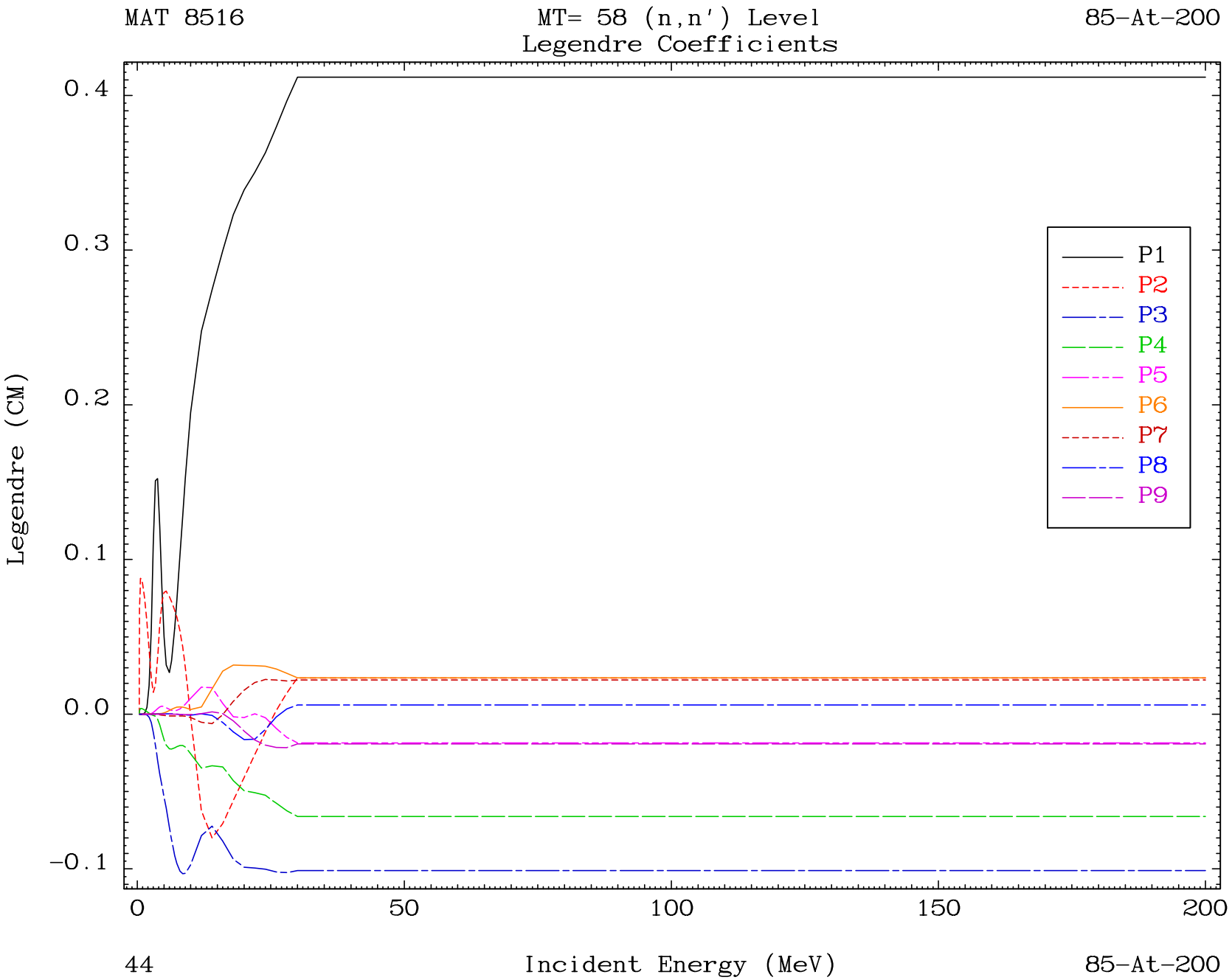

MAT 8516
MT= 56 (n,n') Level
Legendre Coefficients
85-At-200
X10 -6
3
2
1
0
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
50
100
150
200
39
Incident Energy (MeV)
85-At-200

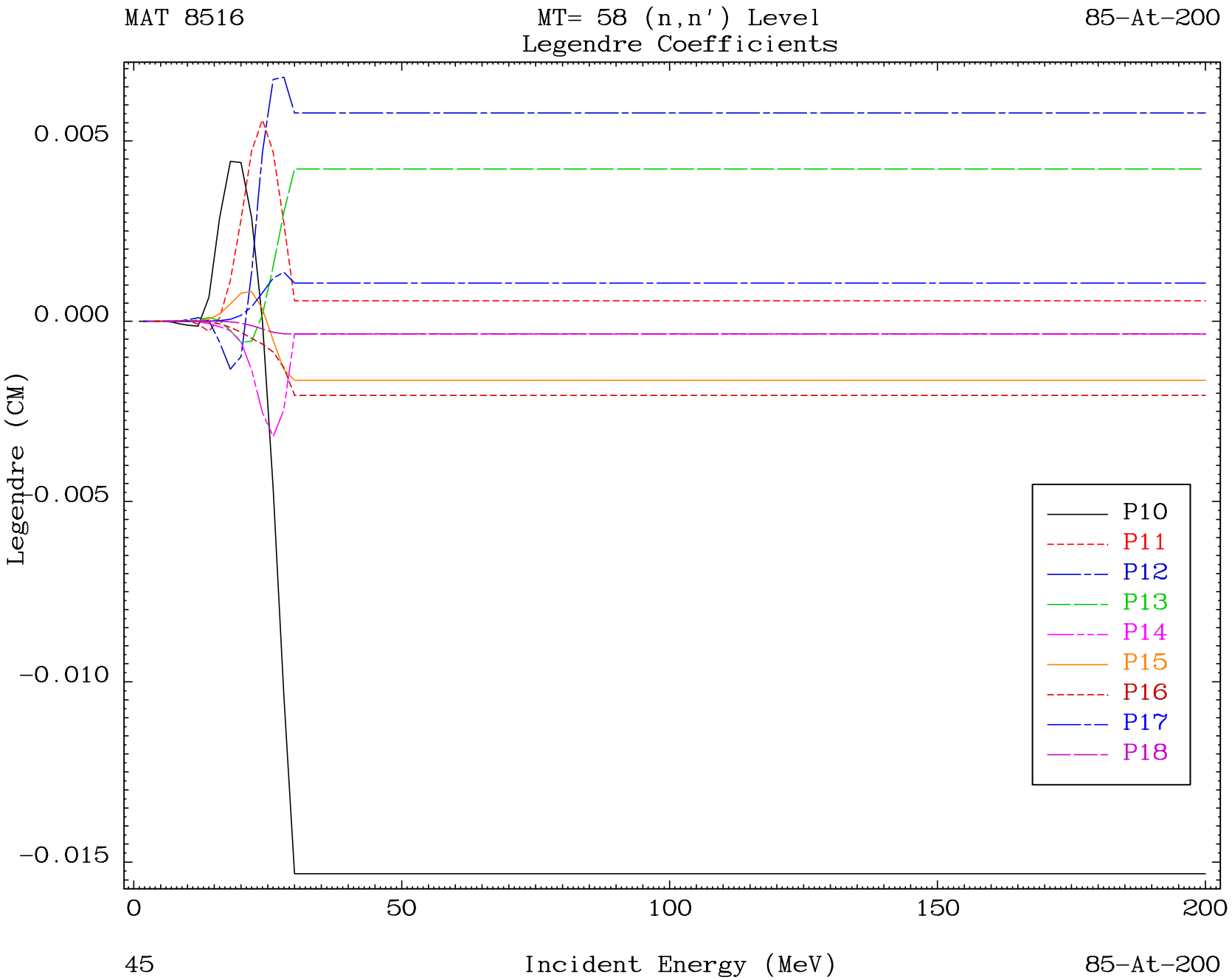

MAT 8516
MT= 57 (n,n') Level
Legendre Coefficients
85-At-200
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
-0.1
0
50
100
150
200
40
Incident Energy (MeV)
85-At-200
P1
P2
P3
P4
P5
P6
P7
P8
P9

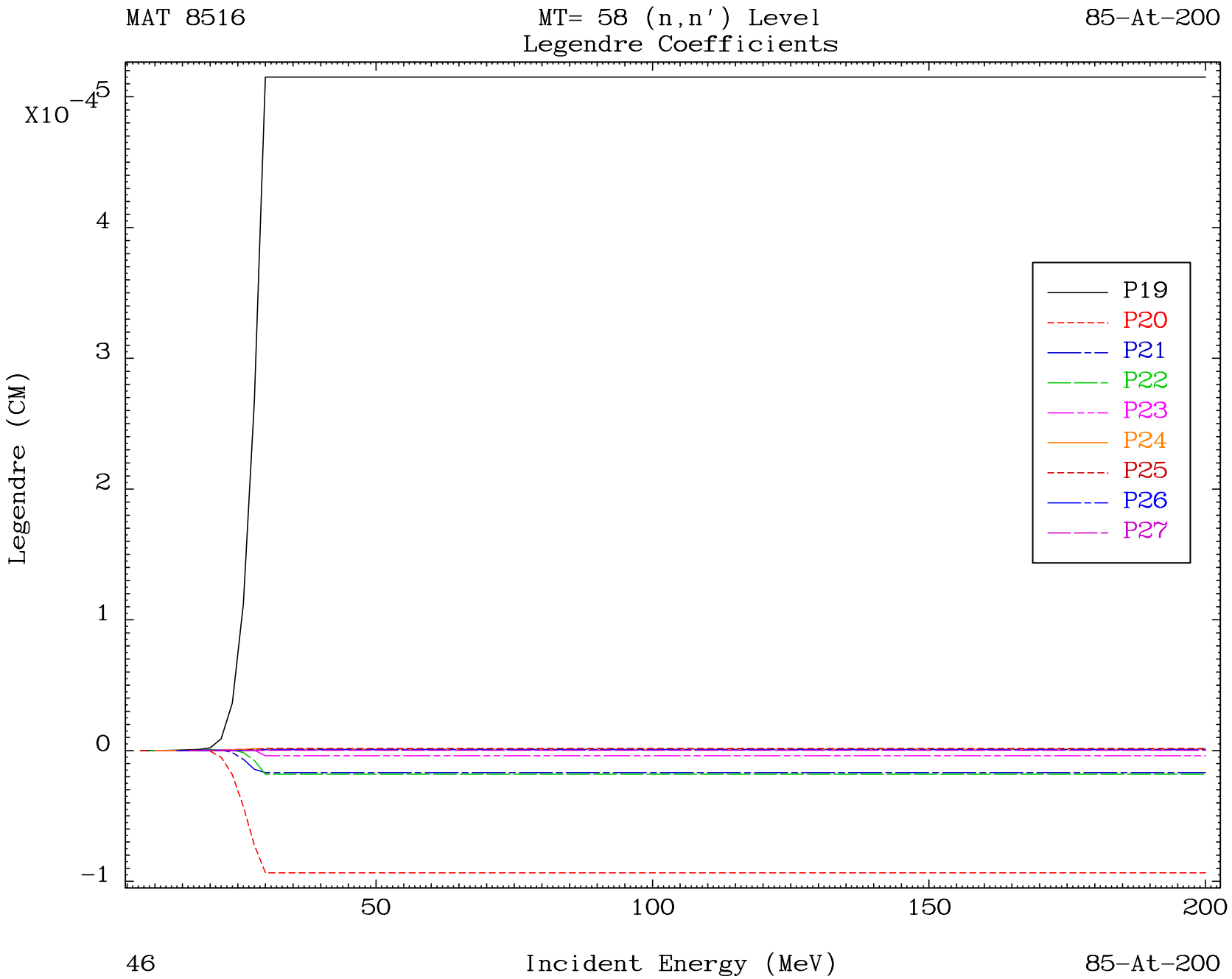

MAT 8516
MT= 57 (n,n') Level
Legendre Coefficients
85-At-200
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.03
0.02
0.01
0.00
-0.01
Legendre (CM)
0
50
100
150
200
41
Incident Energy (MeV)
85-At-200

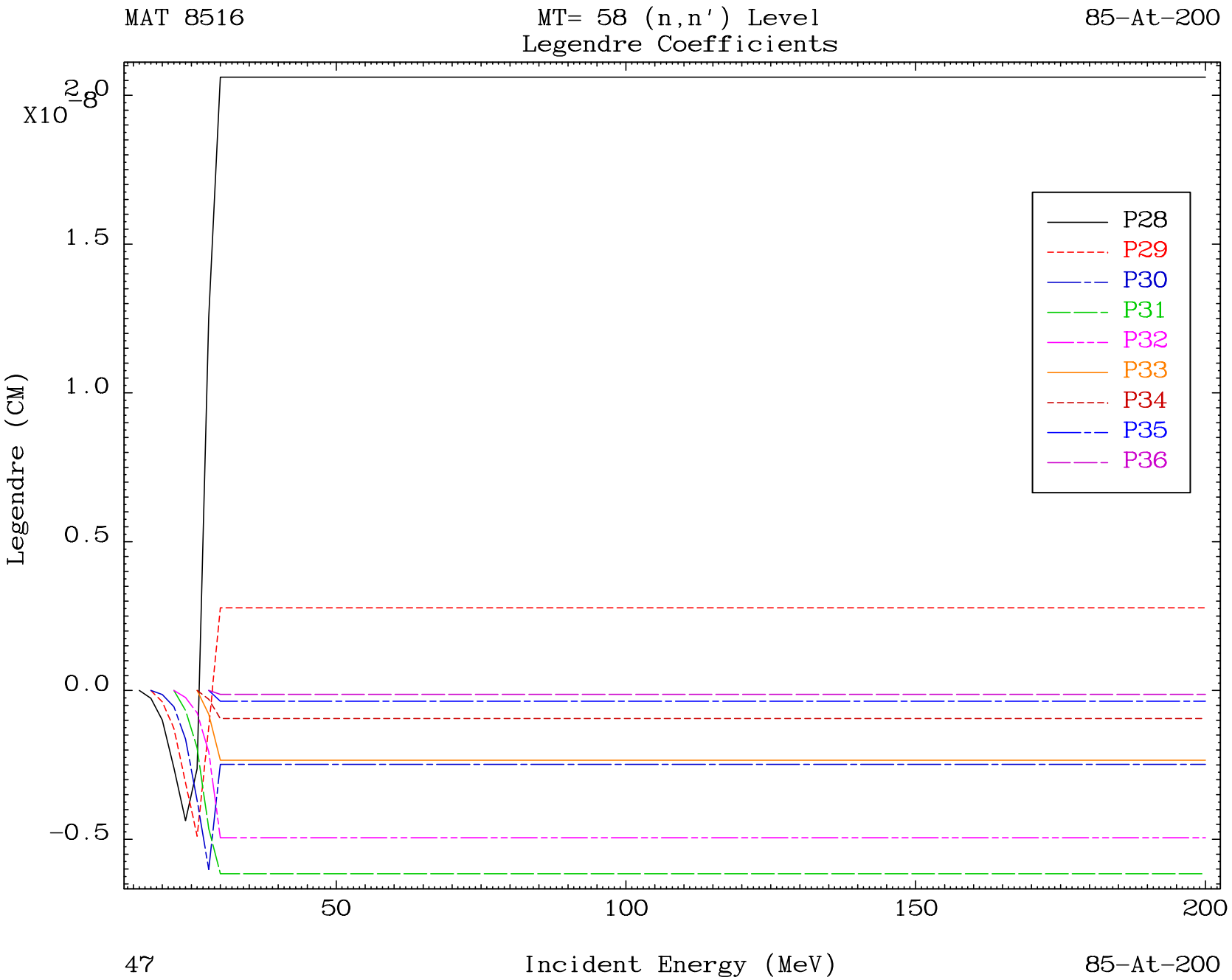

MAT 8516
MT= 57 (n,n') Level
Legendre Coefficients
85-At-200
X10^-4
2
0
-2
-4
-6
Legendre (CM)
50
100
150
200
42
Incident Energy (MeV)
85-At-200
P19
P20
P21
P22
P23
P24
P25
P26
P27

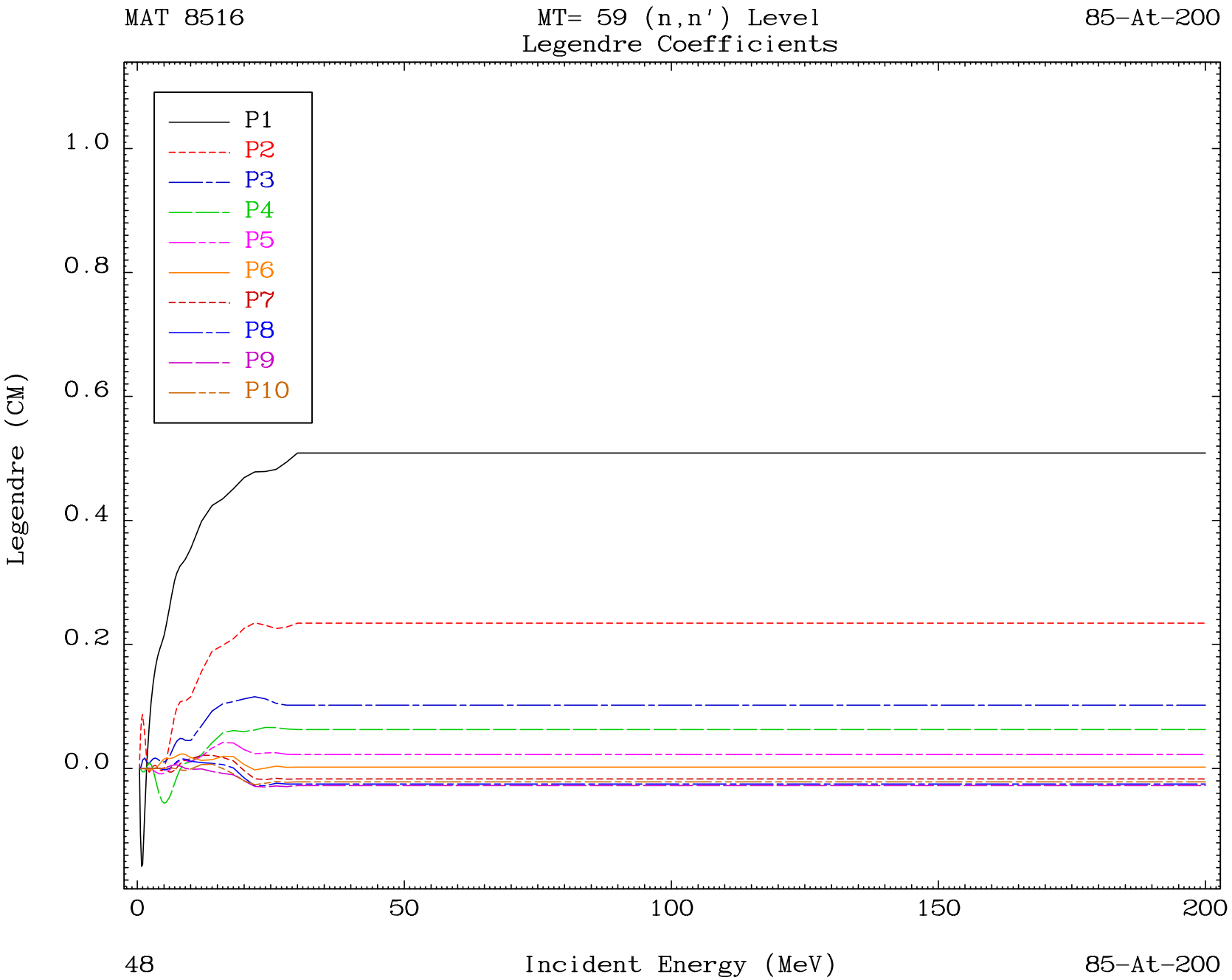

MAT 8516
MT= 57 (n,n') Level
Legendre Coefficients
85-At-200
0.0
X10^-6
-0.5
-1.0
-1.5
Legendre (CM)
50
100
150
200
43
Incident Energy (MeV)
85-At-200
P28
P29
P30
P31
P32
P33
P34
P35
P36

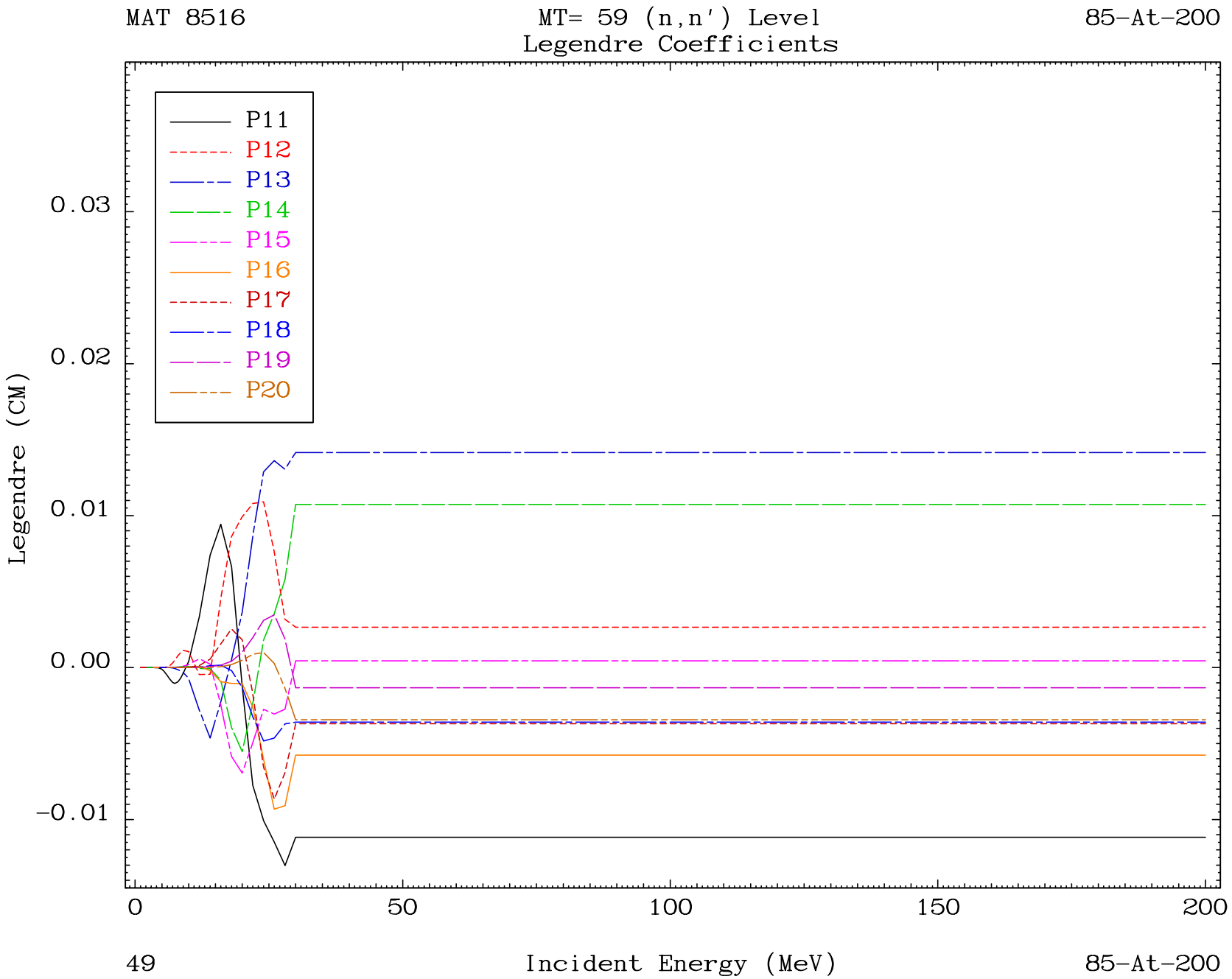

MAT 8516
MT= 58 (n,n') Level
Legendre Coefficients
85-At-200
0.4
0.3
0.2
0.1
0.0
-0.1
Legendre (CM)
0
50
100
150
200
Incident Energy (MeV)
44
85-At-200
P1
P2
P3
P4
P5
P6
P7
P8
P9

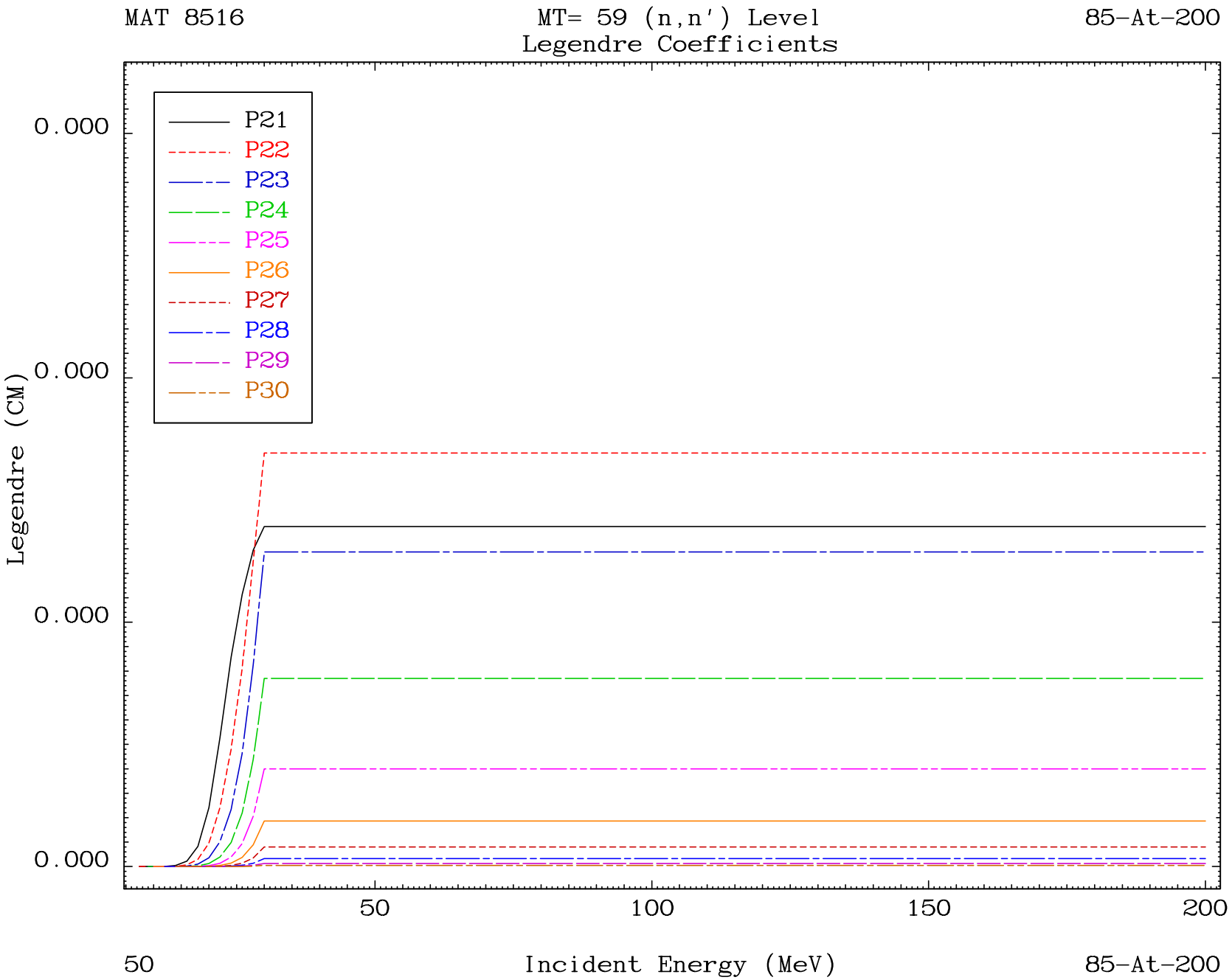

MAT 8516
MT= 58 (n,n') Level
Legendre Coefficients
85-At-200
0.005
0.000
-0.005
-0.010
-0.015
Legendre (CM)
0
50
100
150
200
45
Incident Energy (MeV)
85-At-200
P10
P11
P12
P13
P14
P15
P16
P17
P18

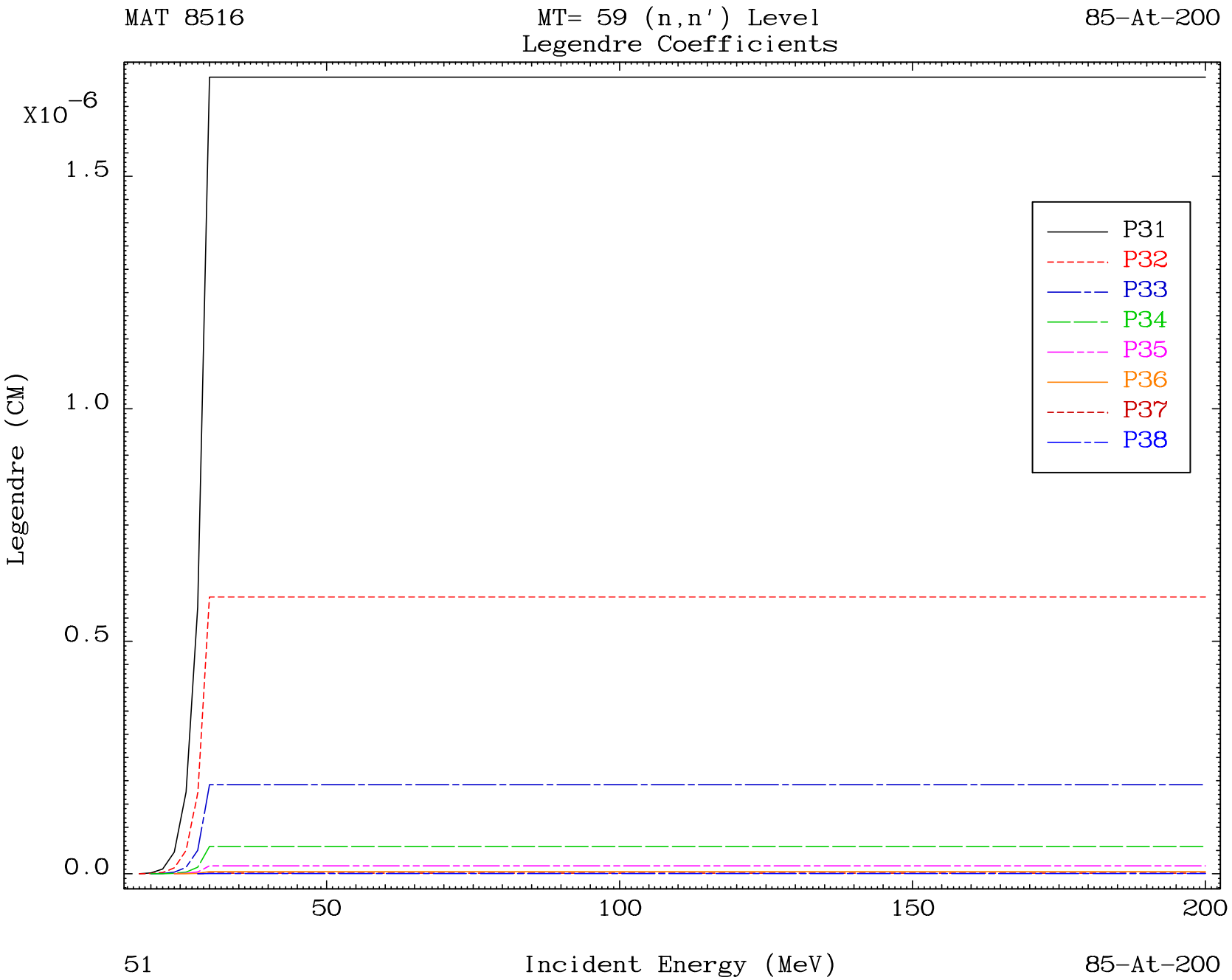

MAT 8516
MT= 58 (n,n') Level
Legendre Coefficients
85-At-200
X10^-4
5
4
3
2
1
0
-1
Legendre (CM)
50
100
150
200
P19
P20
P21
P22
P23
P24
P25
P26
P27
46
Incident Energy (MeV)
85-At-200

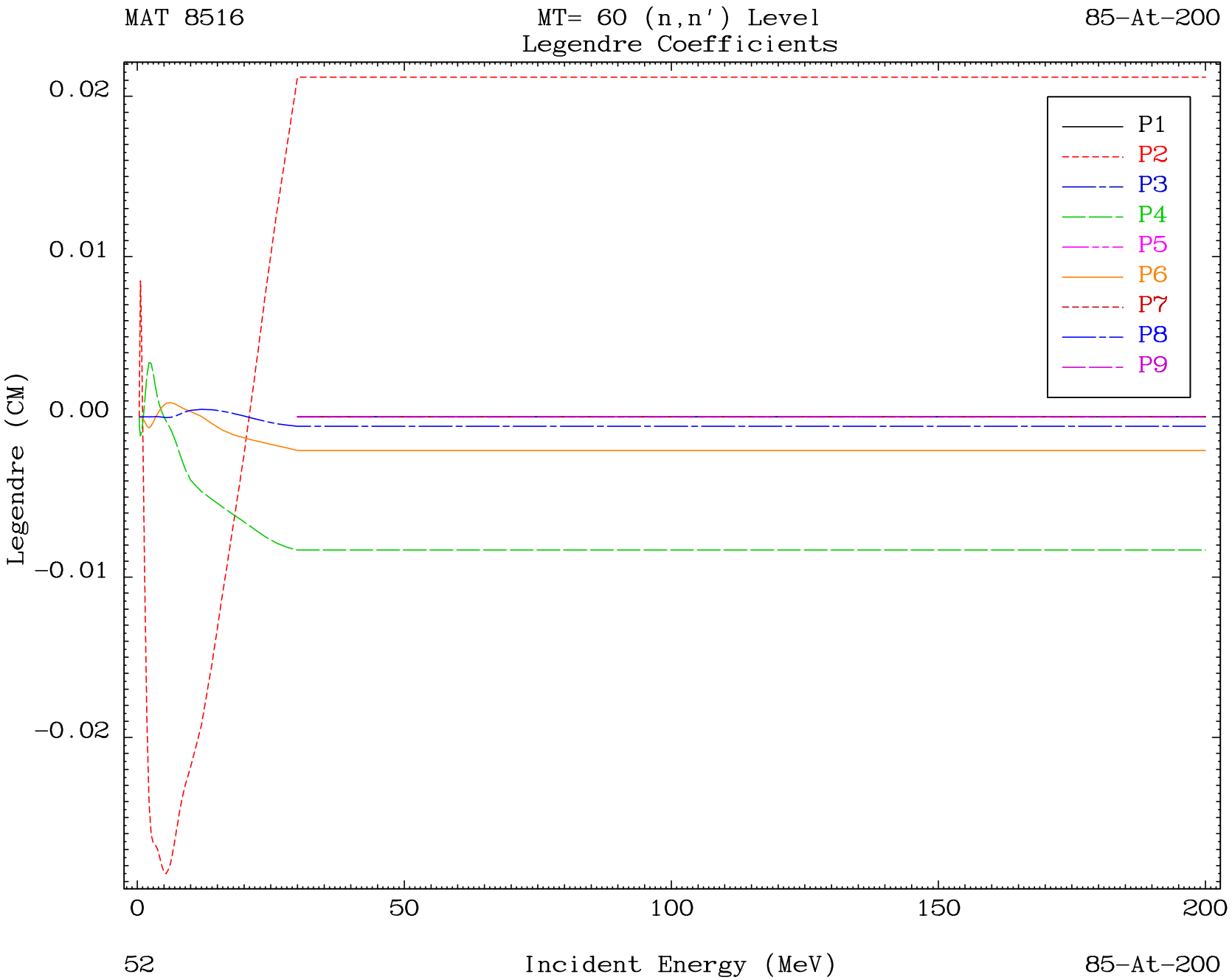

MAT 8516
MT= 58 (n,n') Level
Legendre Coefficients
85-At-200
X10 -8
2.0
1.5
1.0
0.5
0.0
-0.5
Legendre (CM)
50
100
150
200
47
Incident Energy (MeV)
85-At-200
P28
P29
P30
P31
P32
P33
P34
P35
P36

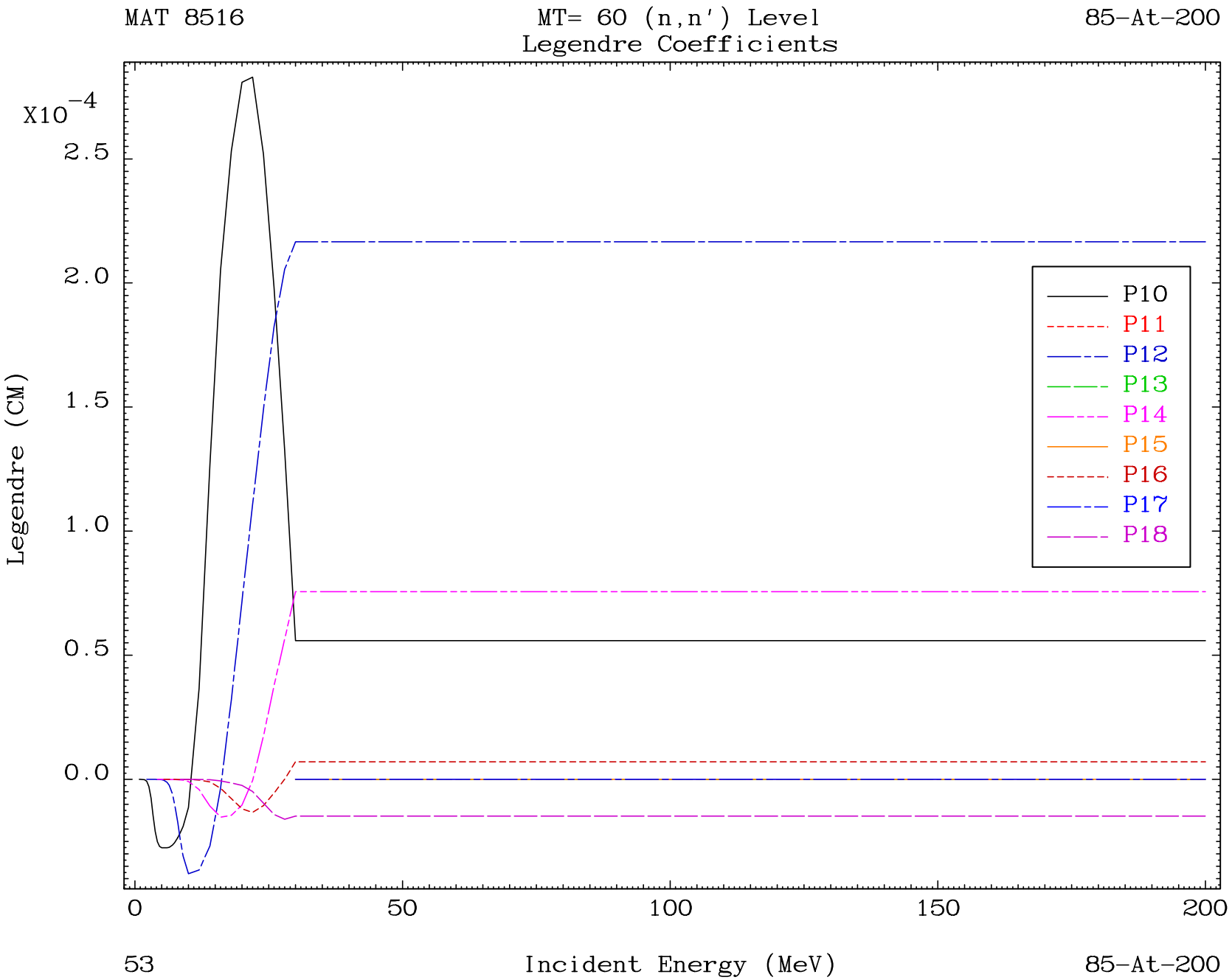

MAT 8516
MT= 59 (n,n') Level
Legendre Coefficients
85-At-200
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
Legendre (CM)
1.0
0.8
0.6
0.4
0.2
0.0
0
50
100
150
200
48
Incident Energy (MeV)
85-At-200

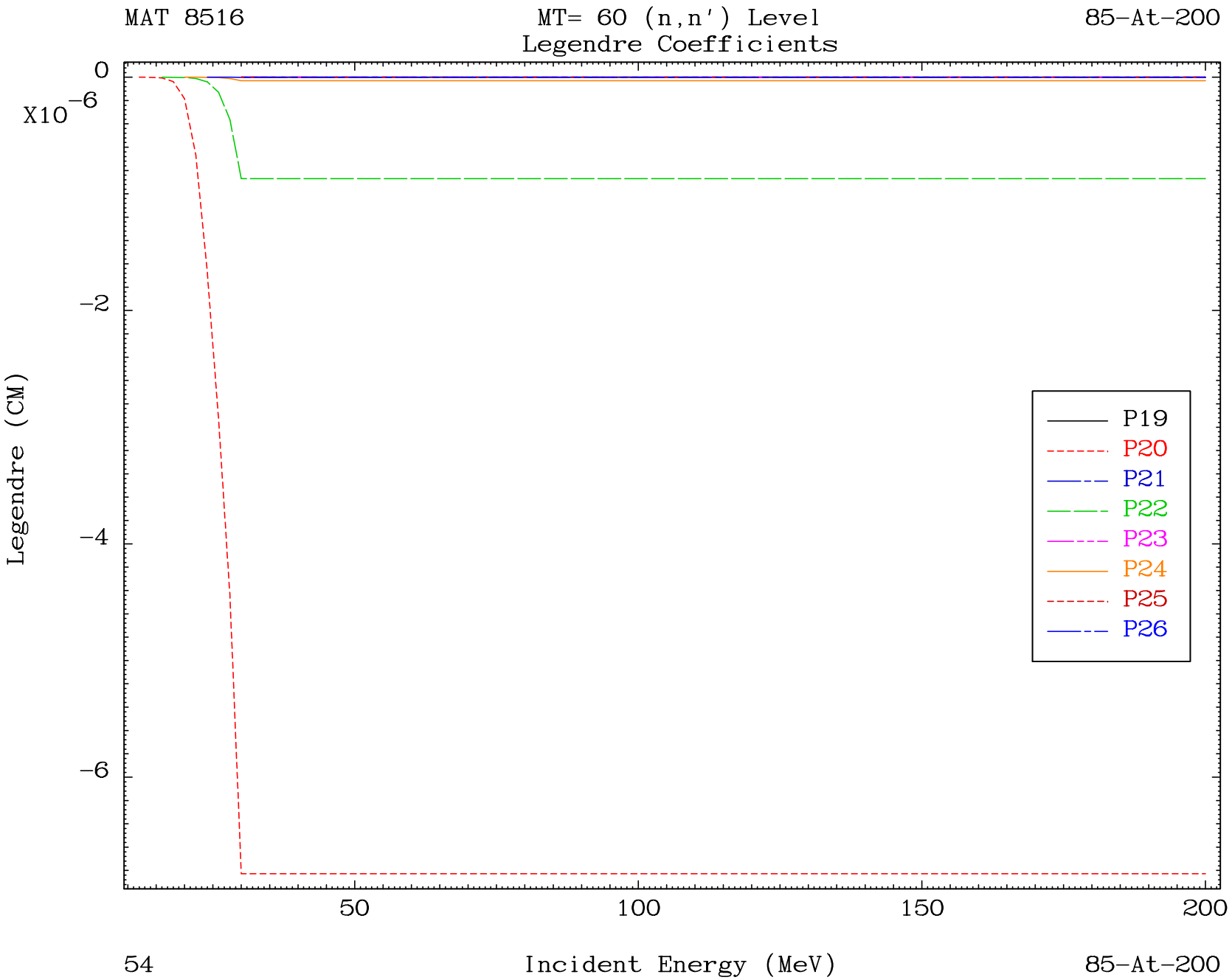

MAT 8516
MT= 59 (n,n') Level
Legendre Coefficients
85-At-200
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.03
0.02
0.01
0.00
-0.01
Legendre (CM)
0
50
100
150
200
49
Incident Energy (MeV)
85-At-200

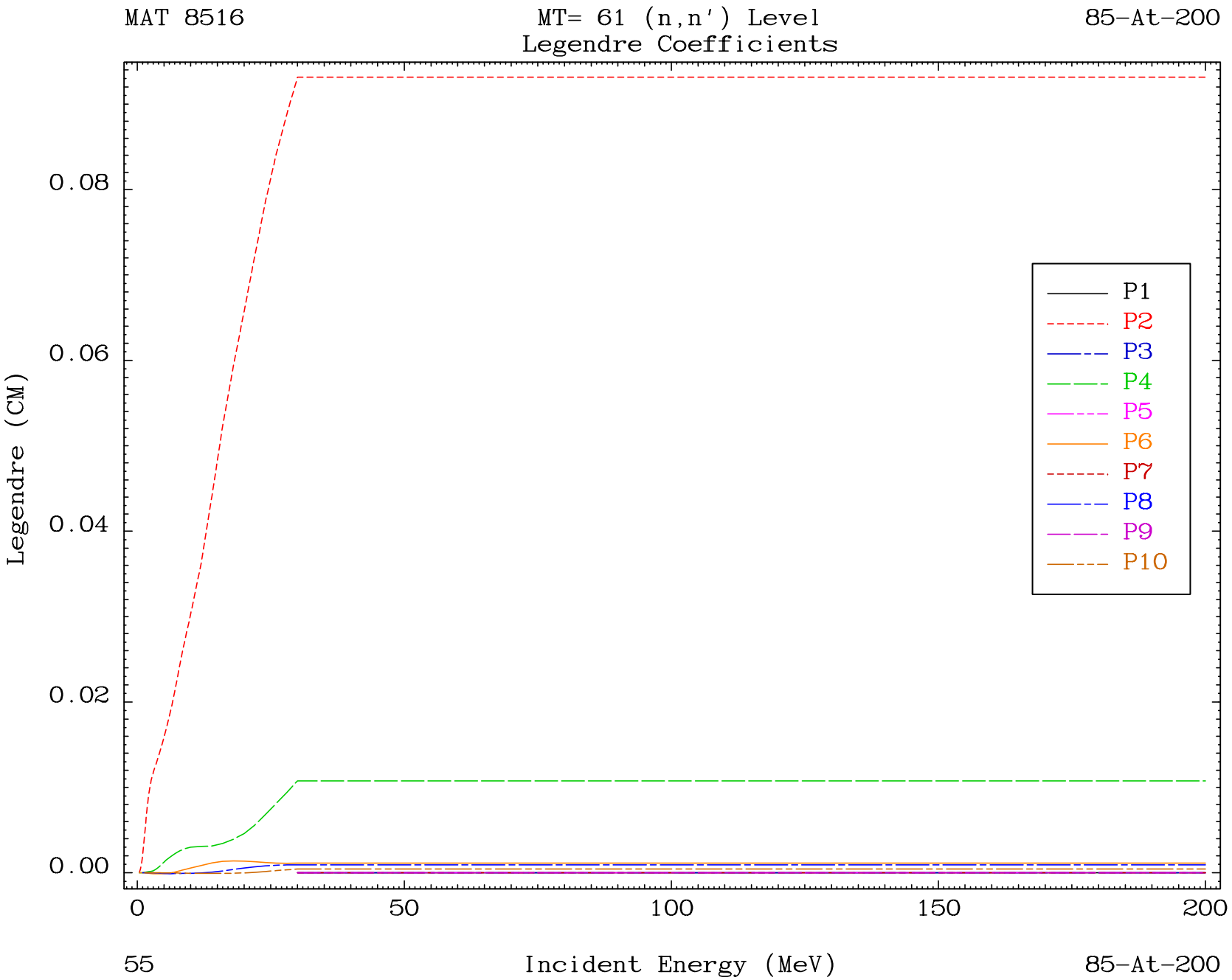

MAT 8516
MT= 59 (n,n') Level
Legendre Coefficients
85-At-200
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
0.000
0.000
0.000
0.000
Legendre (CM)
50
100
150
200
50
Incident Energy (MeV)
85-At-200

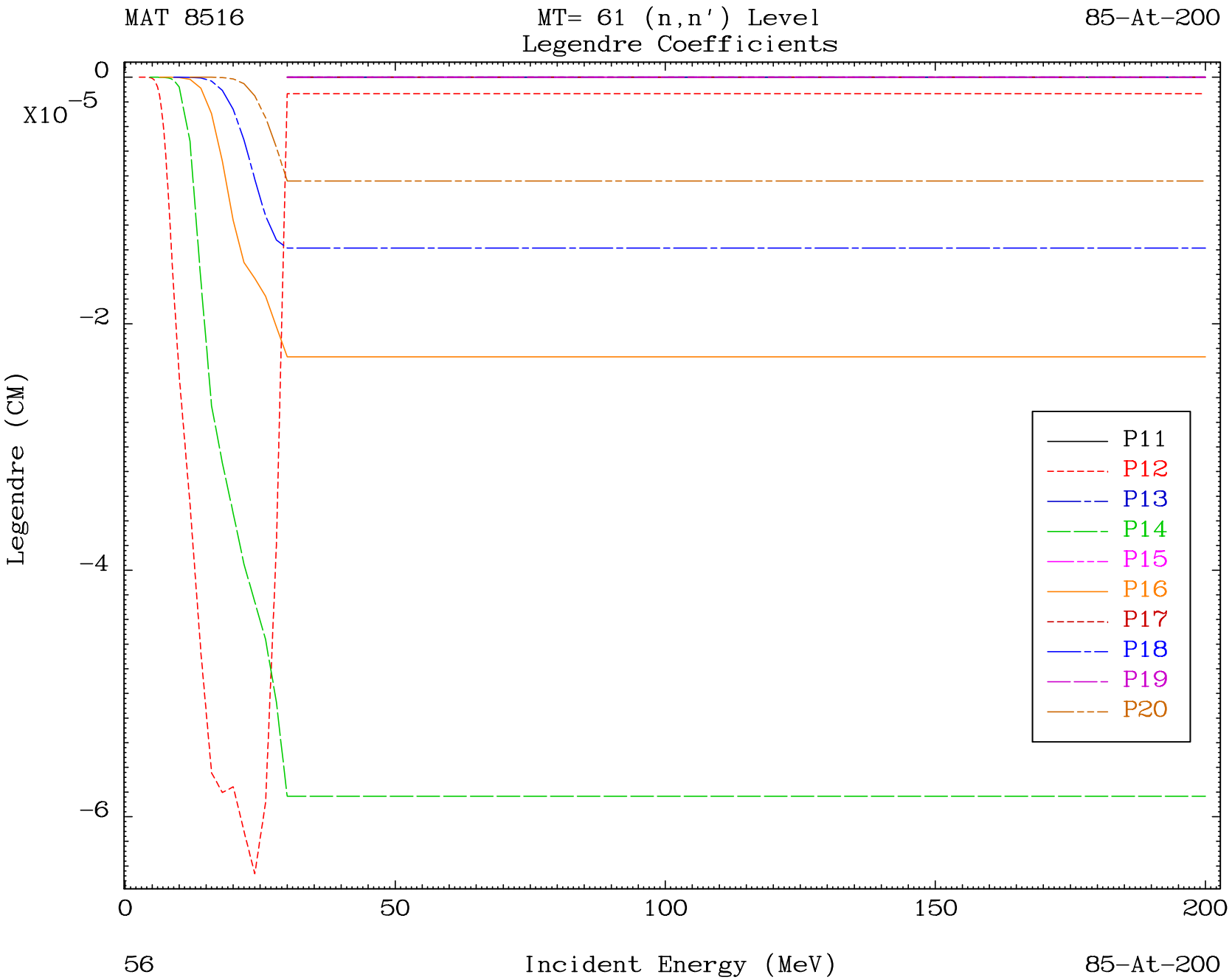

MAT 8516
MT= 59 (n,n') Level
Legendre Coefficients
85-At-200
X10^-6
1.5
1.0
0.5
0.0
Legendre (CM)
P31
P32
P33
P34
P35
P36
P37
P38
50
100
150
200
51
Incident Energy (MeV)
85-At-200

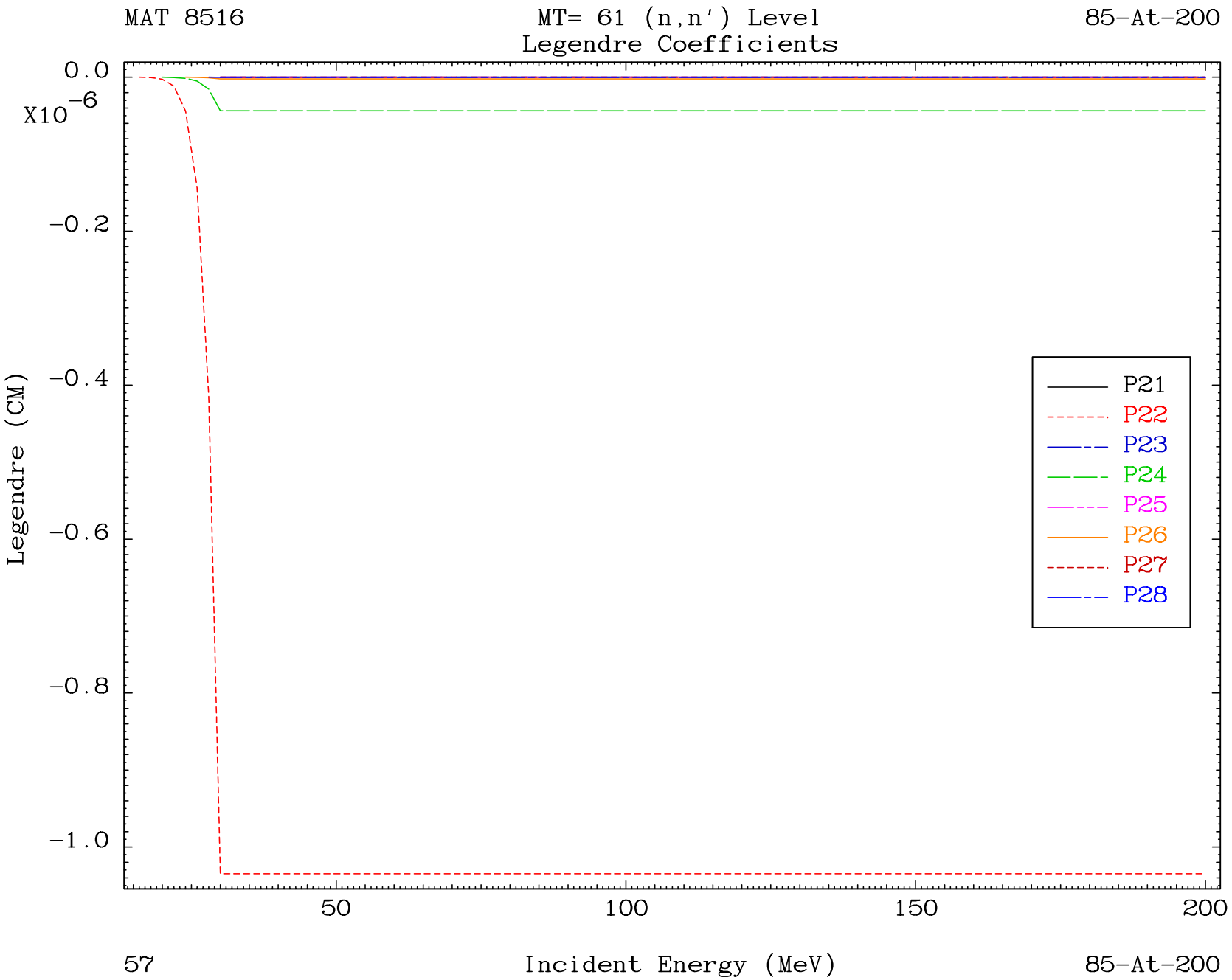

MAT 8516
MT= 60 (n,n') Level
Legendre Coefficients
85-At-200
0.02
0.01
0.00
-0.01
-0.02
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
52
Incident Energy (MeV)
85-At-200

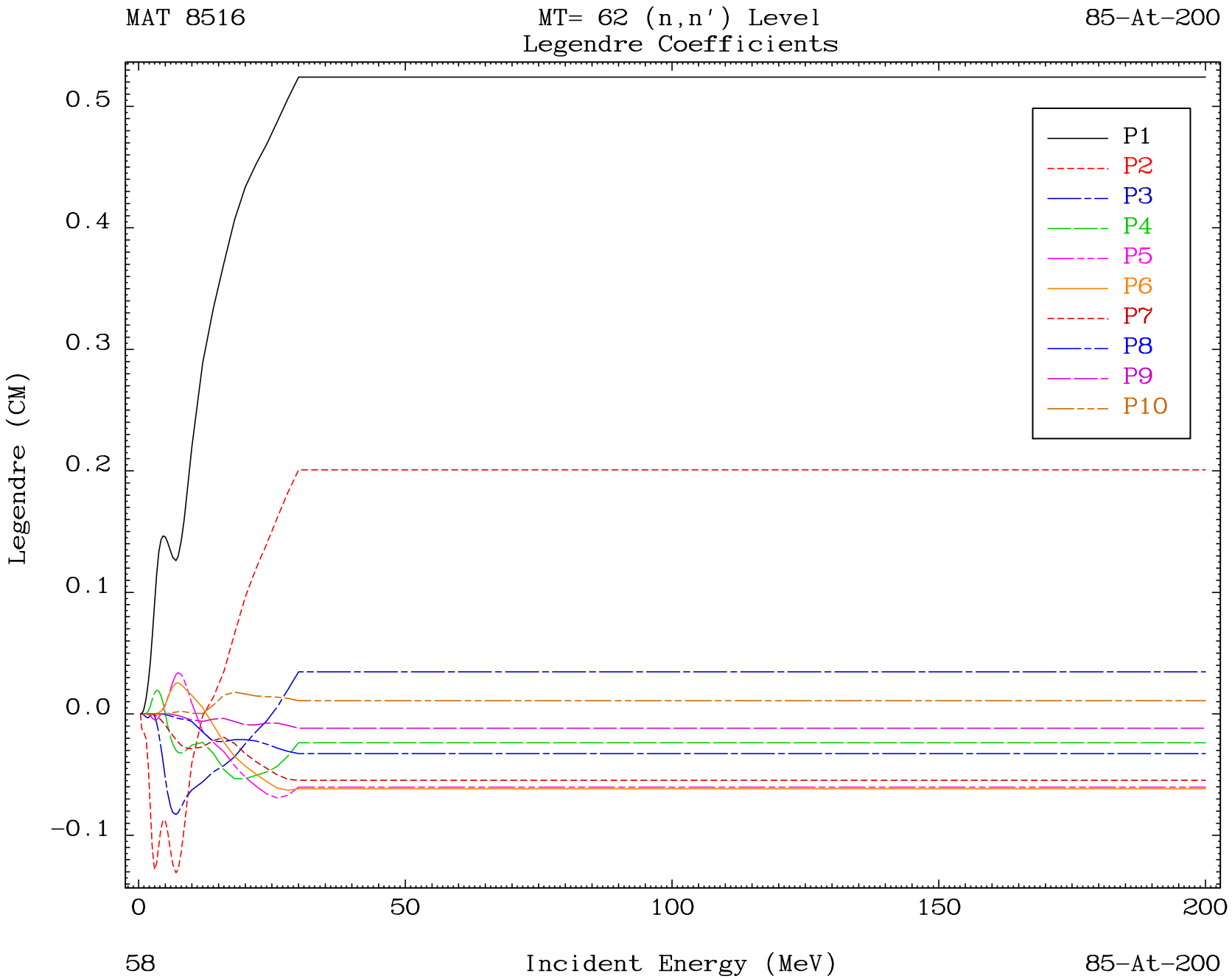

MAT 8516
MT= 60 (n,n') Level
Legendre Coefficients
85-At-200
X10^-4
2.5
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
53
Incident Energy (MeV)
85-At-200

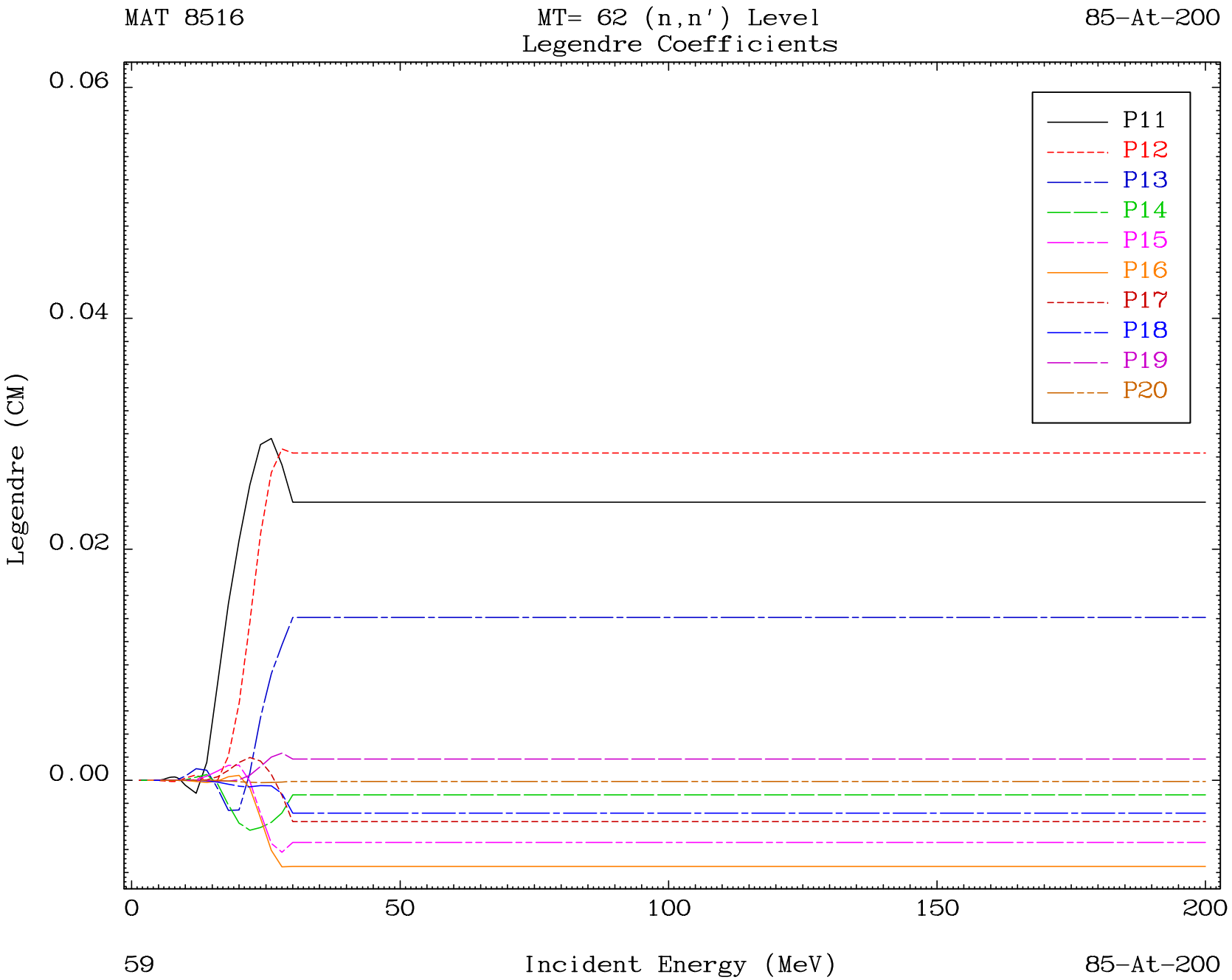

MAT 8516
MT= 60 (n,n') Level
Legendre Coefficients
85-At-200
0
X10^-6
-2
-4
-6
Legendre (CM)
50
100
150
200
54
Incident Energy (MeV)
85-At-200
P19
P20
P21
P22
P23
P24
P25
P26

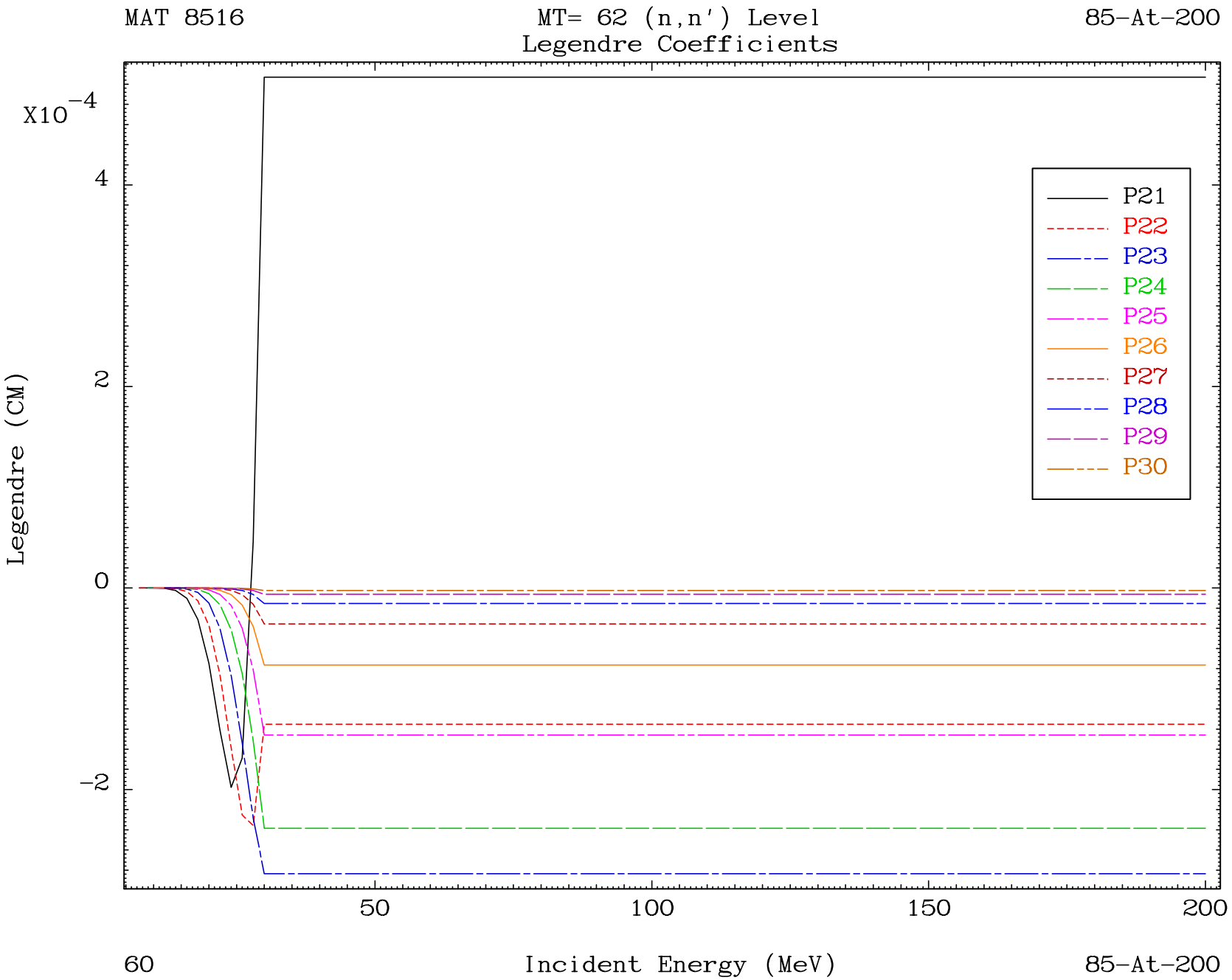

MAT 8516
MT= 61 (n,n') Level
Legendre Coefficients
85-At-200
Legendre (CM)
0.08
0.06
0.04
0.02
0.00
0
50
100
150
200
55
Incident Energy (MeV)
85-At-200
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10

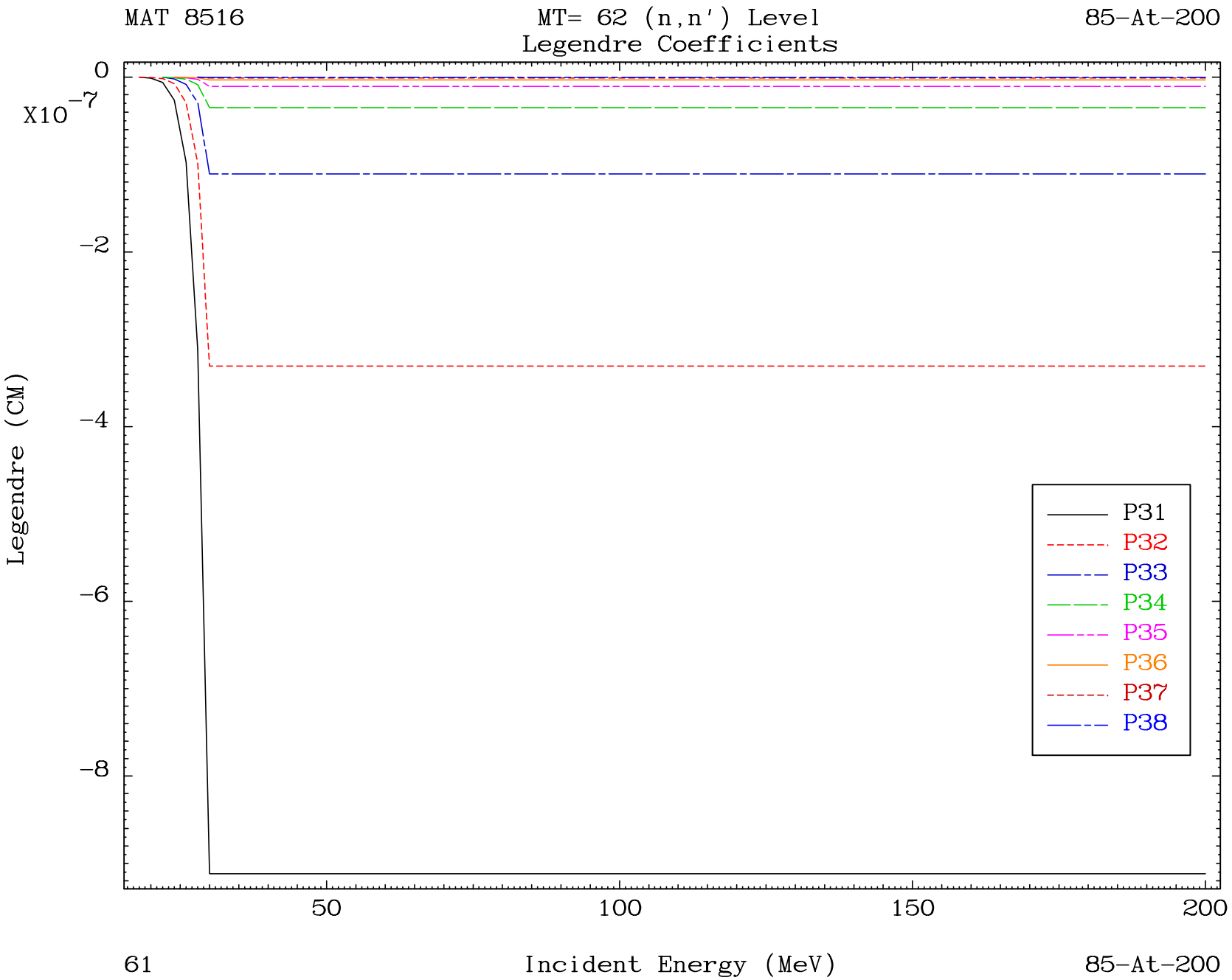

MAT 8516
MT= 61 (n,n') Level
Legendre Coefficients
85-At-200
0
X10^-5
-2
-4
-6
Legendre (CM)
0
50
100
150
200
56
Incident Energy (MeV)
85-At-200
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20

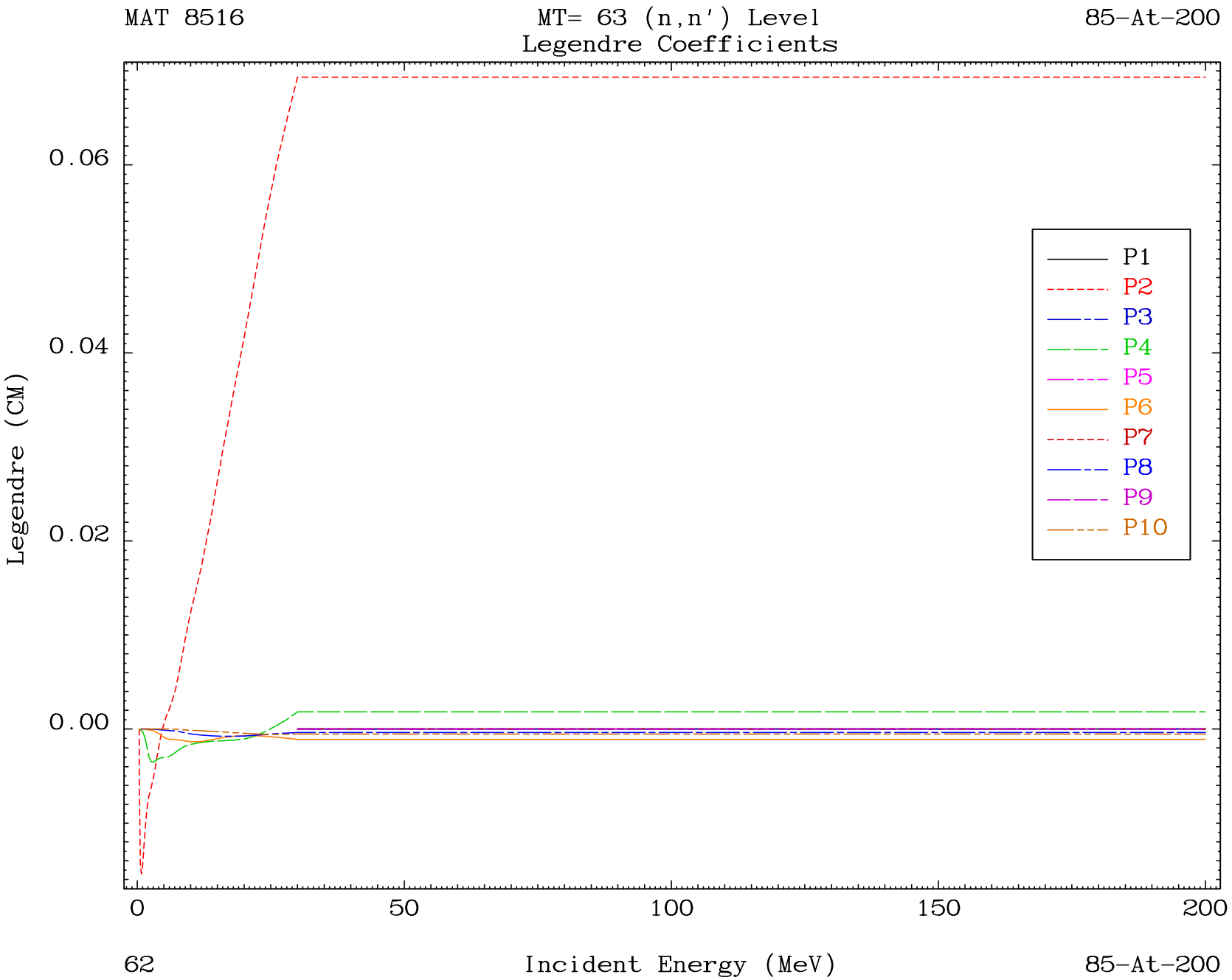

MAT 8516
MT= 61 (n,n') Level
Legendre Coefficients
85-At-200
0.0
X10^-6
-0.2
-0.4
-0.6
-0.8
-1.0
Legendre (CM)
50
100
150
200
57
Incident Energy (MeV)
85-At-200
P21
P22
P23
P24
P25
P26
P27
P28

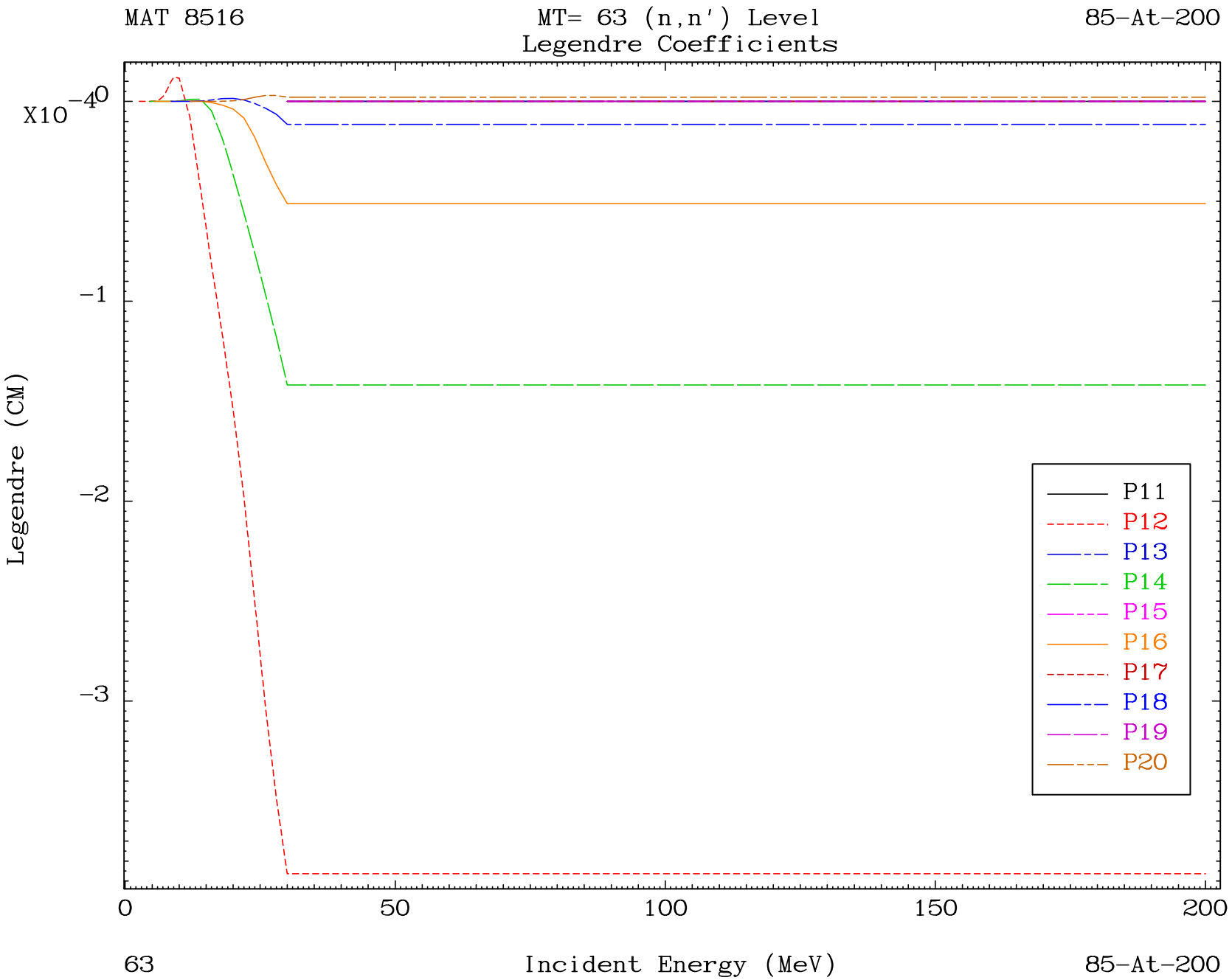

MAT 8516
MT= 62 (n,n') Level
Legendre Coefficients
85-At-200
Legendre (CM)
0.5
0.4
0.3
0.2
0.1
0.0
-0.1
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
58
Incident Energy (MeV)
85-At-200

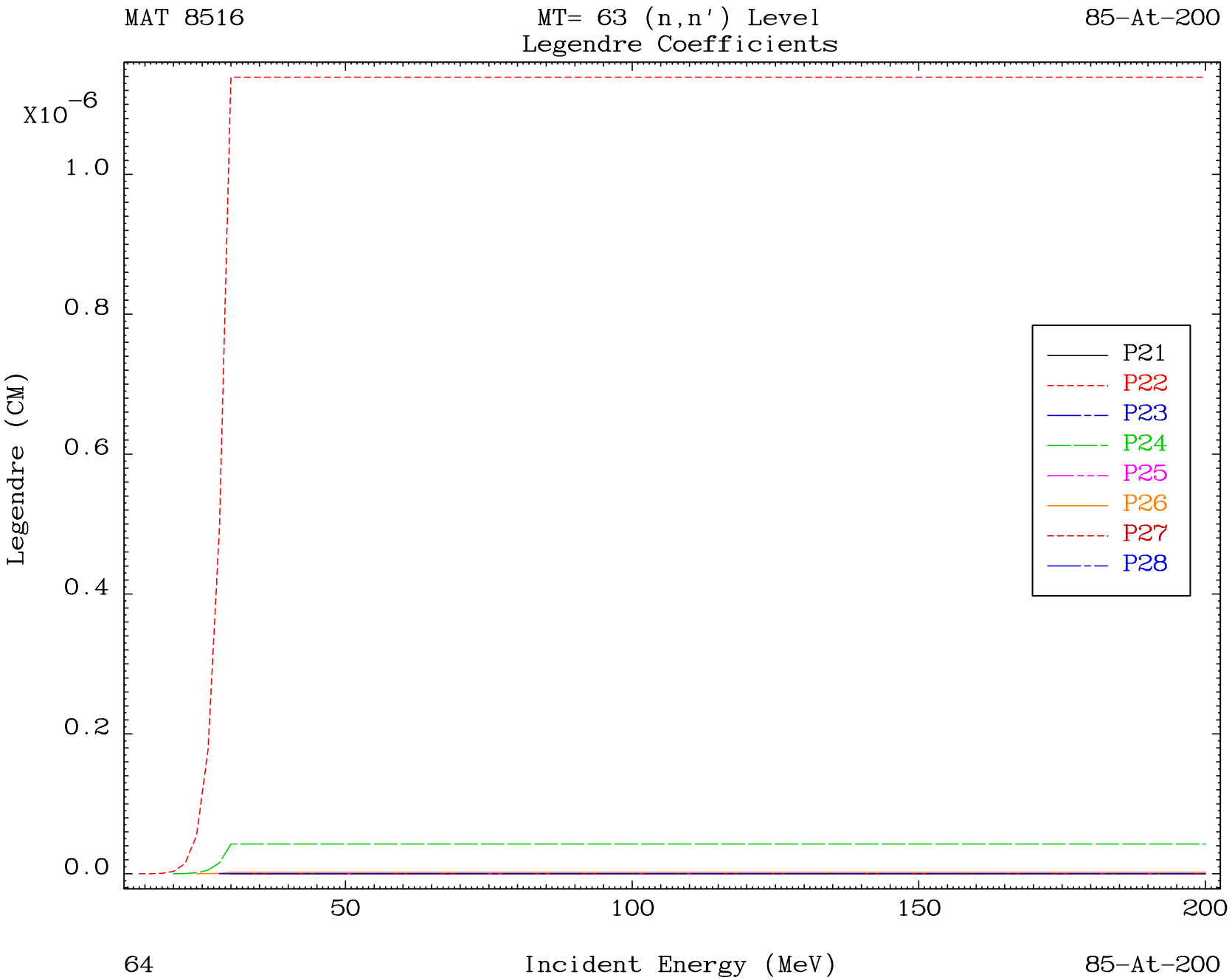

MAT 8516
MT= 62 (n,n') Level
Legendre Coefficients
85-At-200
0.06
0.04
0.02
0.00
Legendre (CM)
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0
50
100
150
200
59
Incident Energy (MeV)
85-At-200

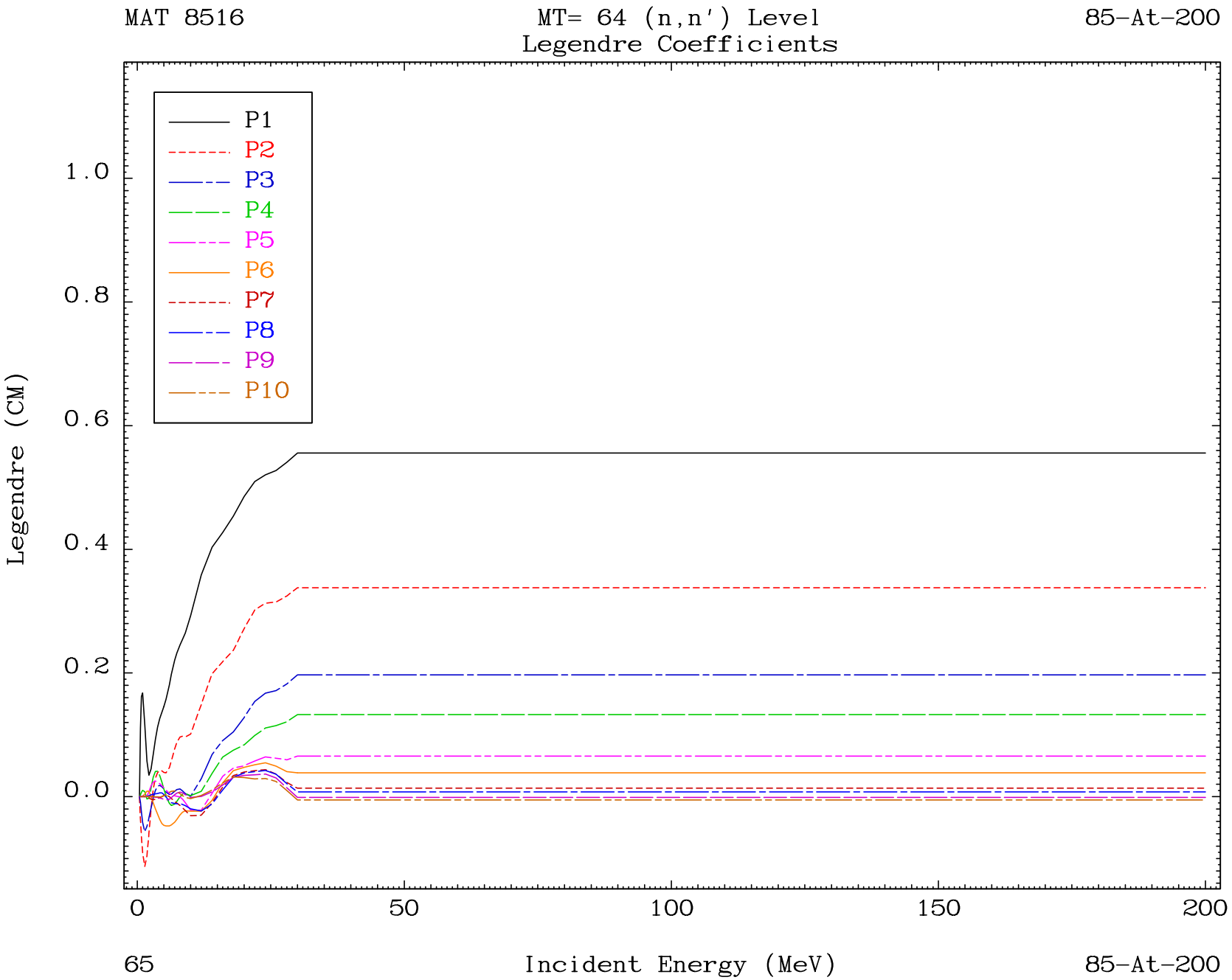

MAT 8516
MT= 62 (n,n') Level
Legendre Coefficients
85-At-200
X10^-4
4
2
0
-2
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
50
100
150
200
60
Incident Energy (MeV)
85-At-200

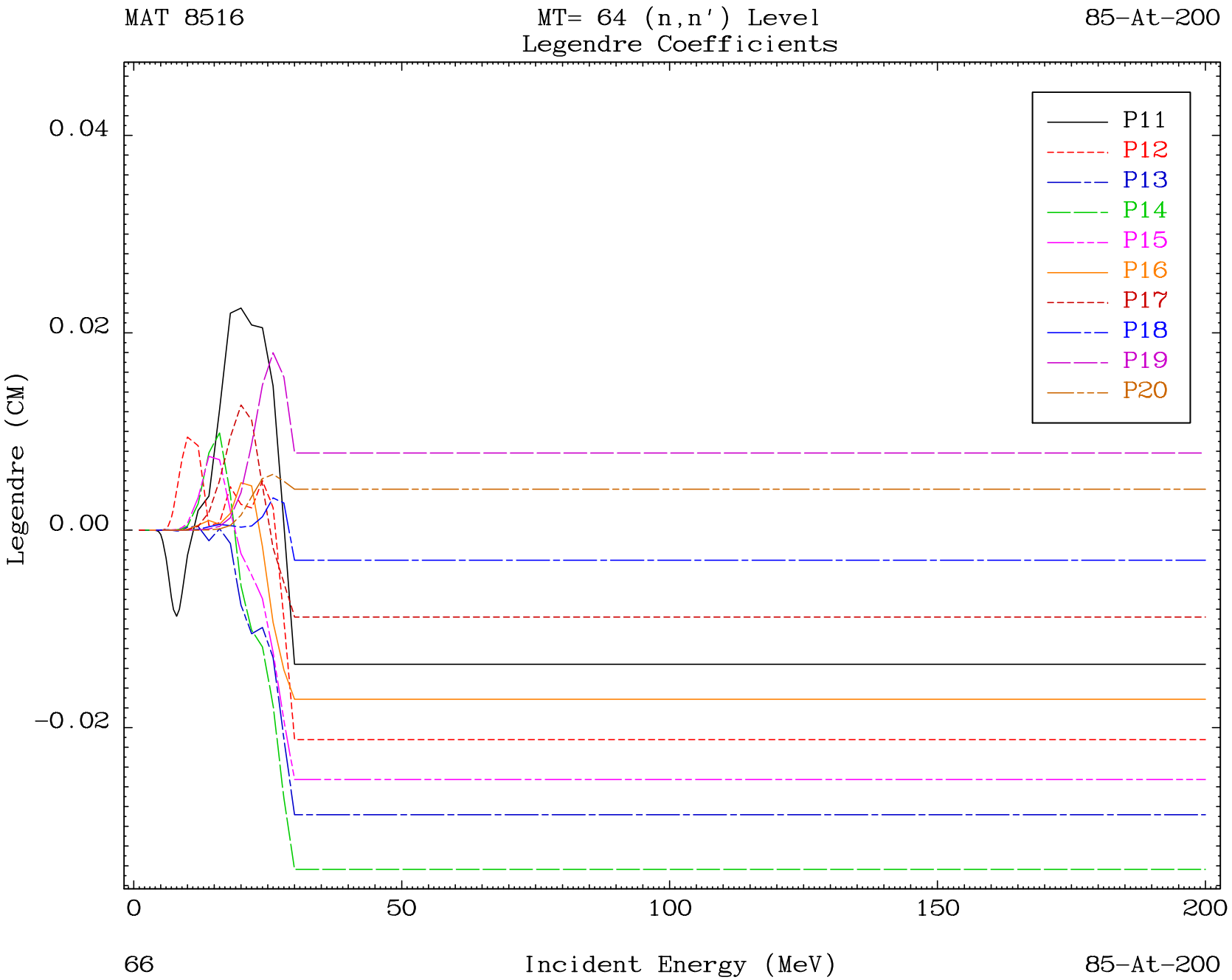

MAT 8516
MT= 62 (n,n') Level
Legendre Coefficients
85-At-200
X10^-7
0
-2
-4
-6
-8
Legendre (CM)
50
100
150
200
61
Incident Energy (MeV)
85-At-200
P31
P32
P33
P34
P35
P36
P37
P38

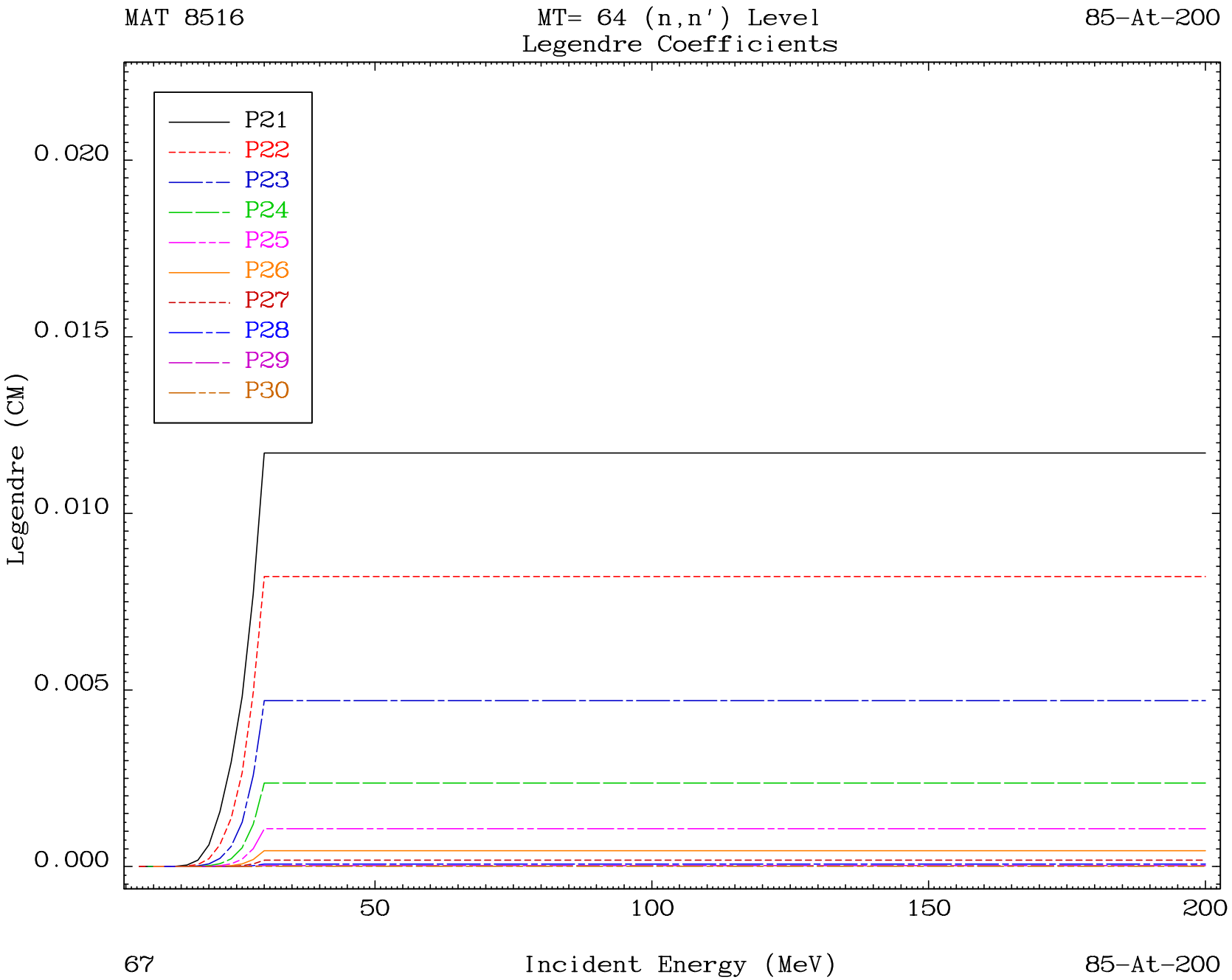

MAT 8516
MT= 63 (n,n') Level
Legendre Coefficients
85-At-200
0.06
0.04
0.02
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
0
50
100
150
200
62
Incident Energy (MeV)
85-At-200

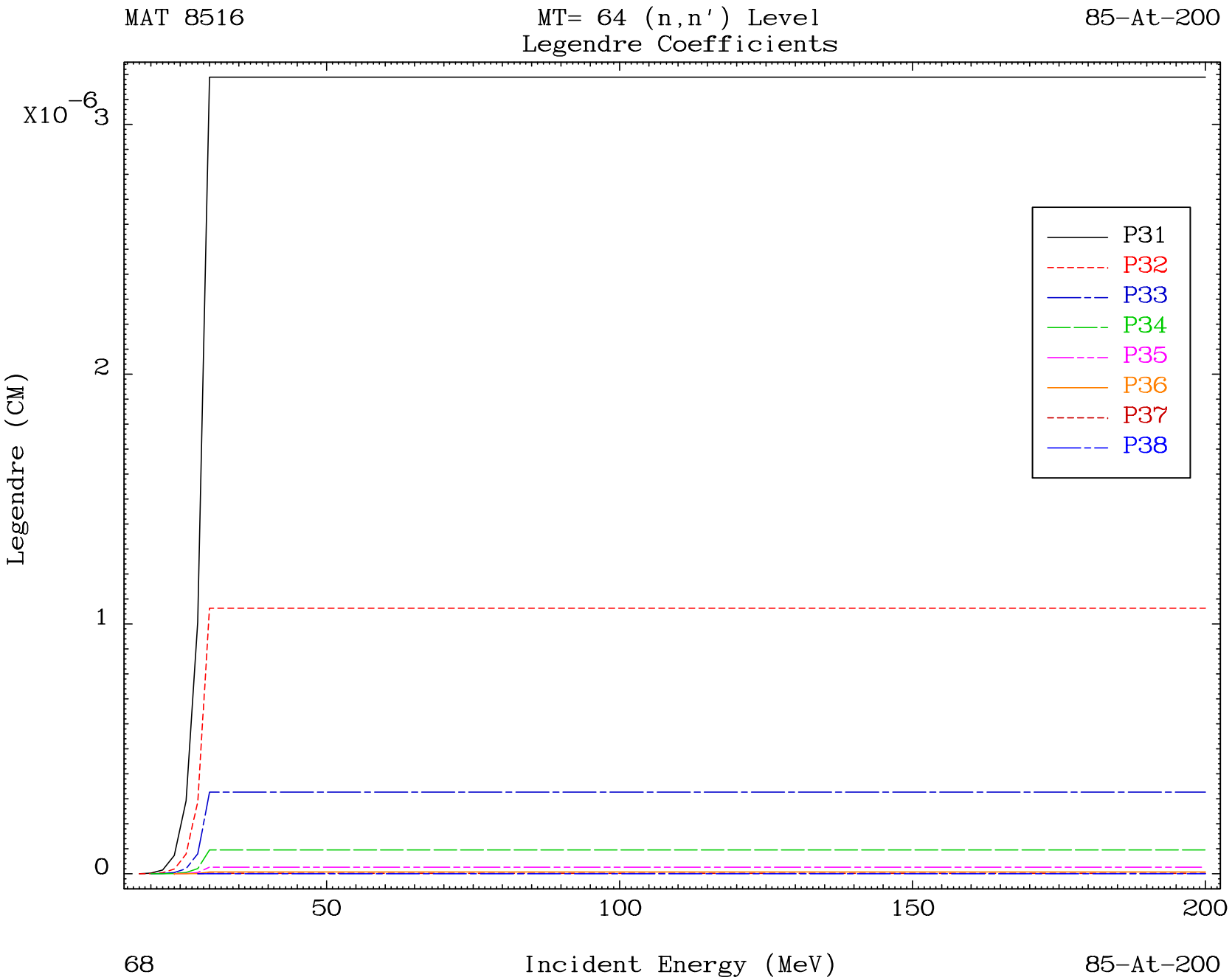

MAT 8516
MT= 63 (n,n') Level
Legendre Coefficients
85-At-200
X10^-4
0
-1
-2
-3
Legendre (CM)
0
50
100
150
200
63
Incident Energy (MeV)
85-At-200
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20

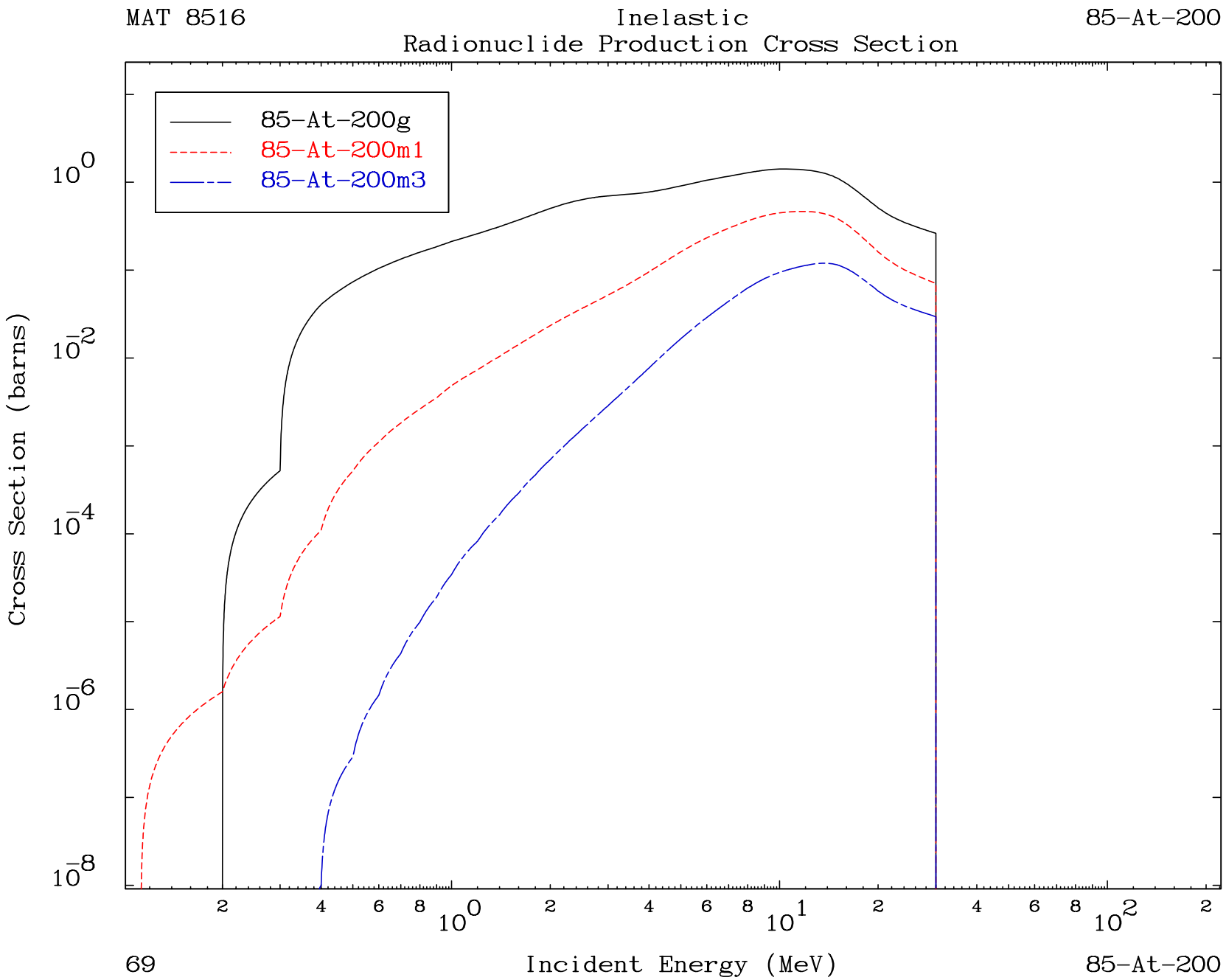

MAT 8516
MT= 63 (n,n') Level
Legendre Coefficients
85-At-200
X10^-6
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
50
100
150
200
P21
P22
P23
P24
P25
P26
P27
P28
64
Incident Energy (MeV)
85-At-200

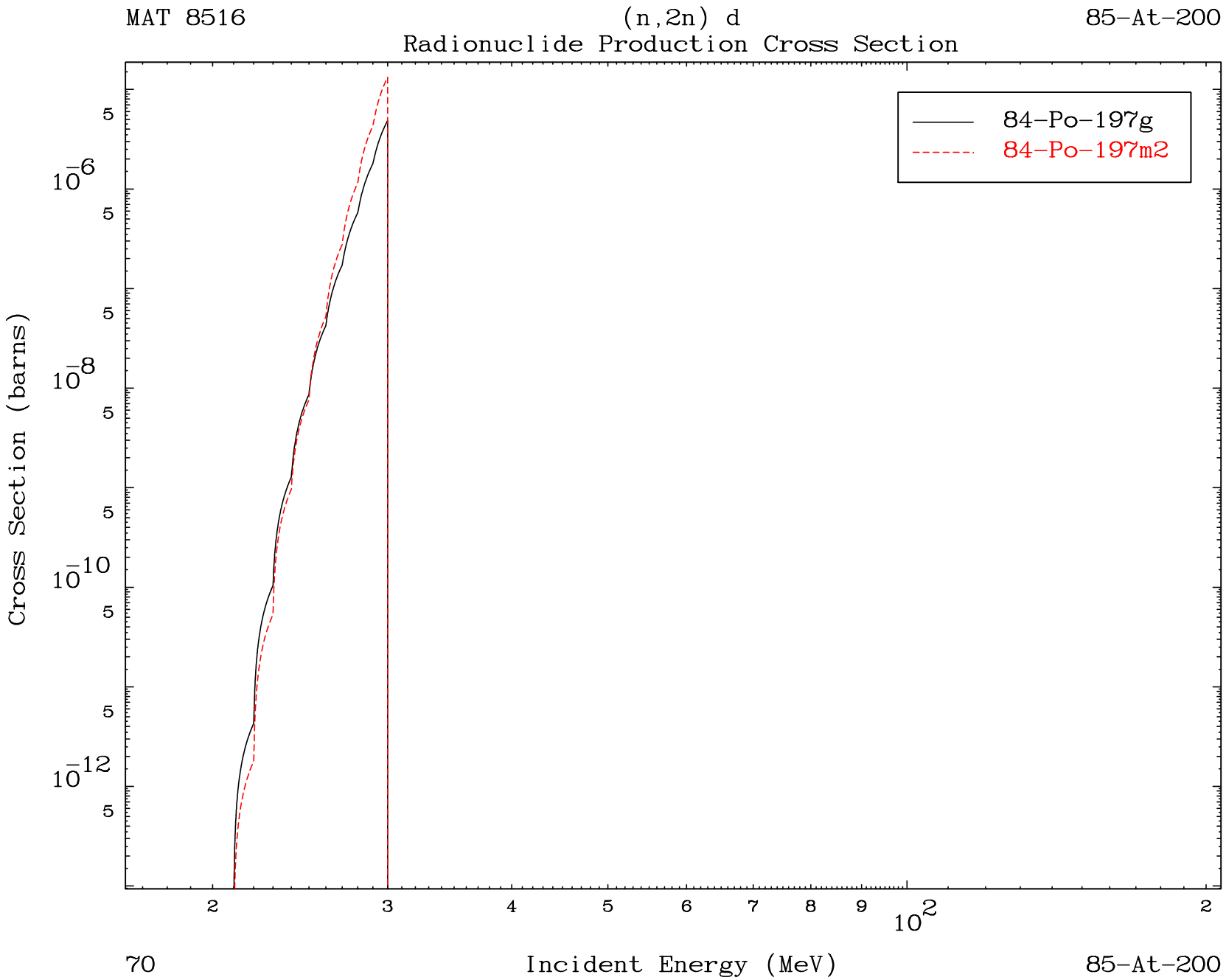

MAT 8516
MT= 64 (n,n') Level
Legendre Coefficients
85-At-200
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
Legendre (CM)
1.0
0.8
0.6
0.4
0.2
0.0
0
50
100
150
200
65
Incident Energy (MeV)
85-At-200

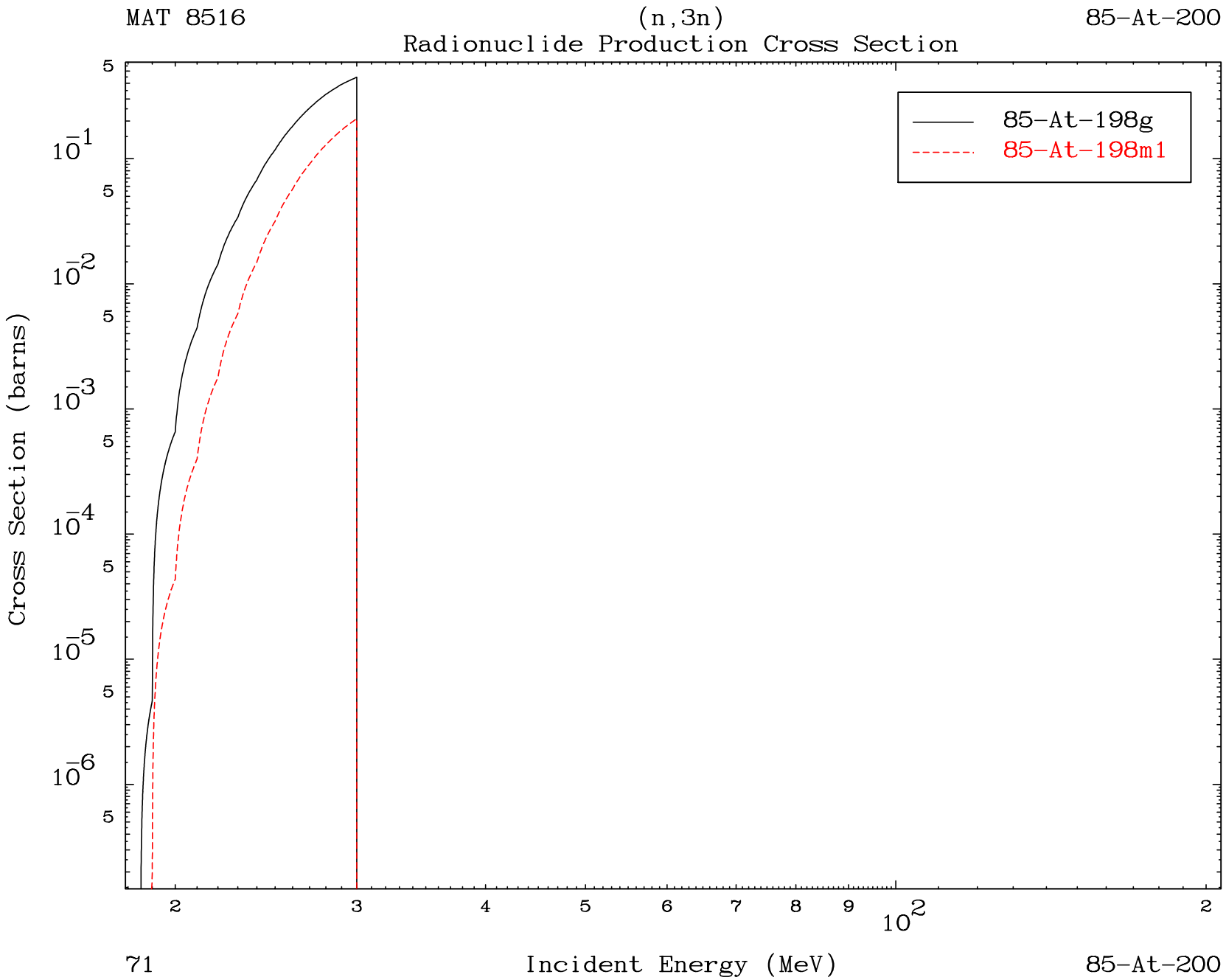

MAT 8516
MT= 64 (n,n') Level
Legendre Coefficients
85-At-200
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.04
0.02
0.00
-0.02
Legendre (CM)
0
50
100
150
200
66
Incident Energy (MeV)
85-At-200

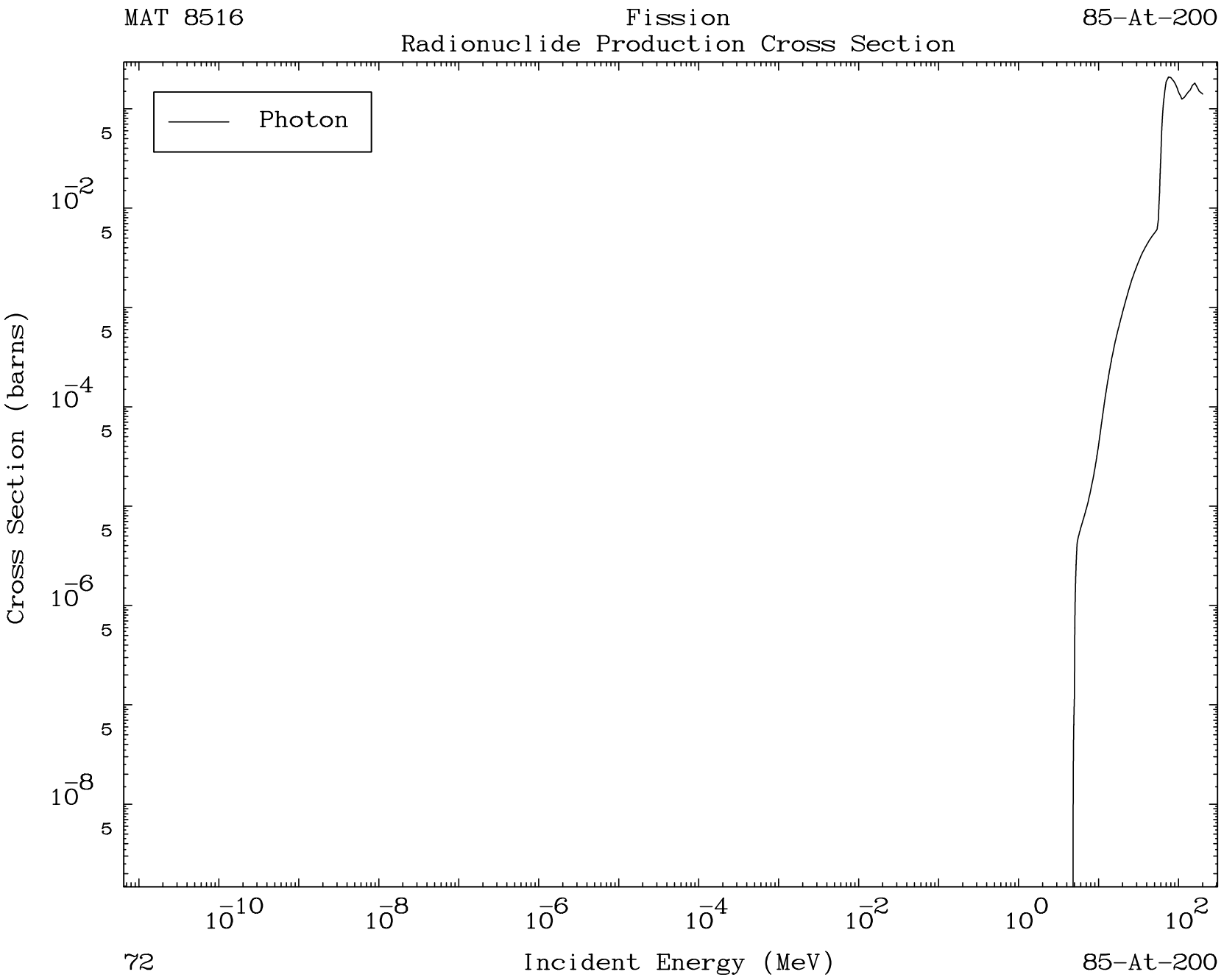

MAT 8516
MT= 64 (n,n') Level
Legendre Coefficients
85-At-200
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
0.020
0.015
0.010
0.005
0.000
Legendre (CM)
50
100
150
200
67
Incident Energy (MeV)
85-At-200

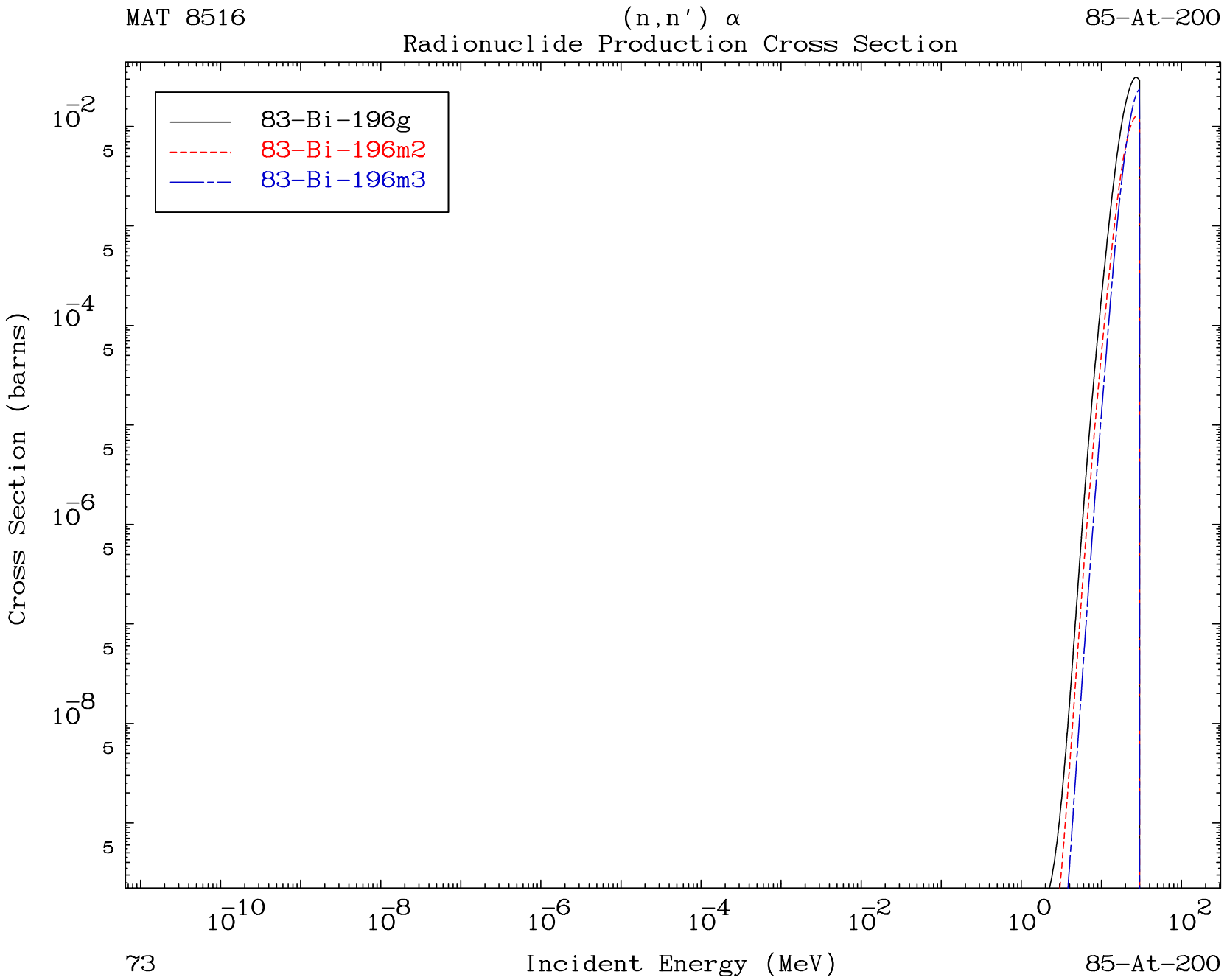

MAT 8516
MT= 64 (n,n') Level
Legendre Coefficients
85-At-200
X10 -6
3
2
1
0
Legendre (CM)
P31
P32
P33
P34
P35
P36
P37
P38
50
100
150
200
68
Incident Energy (MeV)
85-At-200

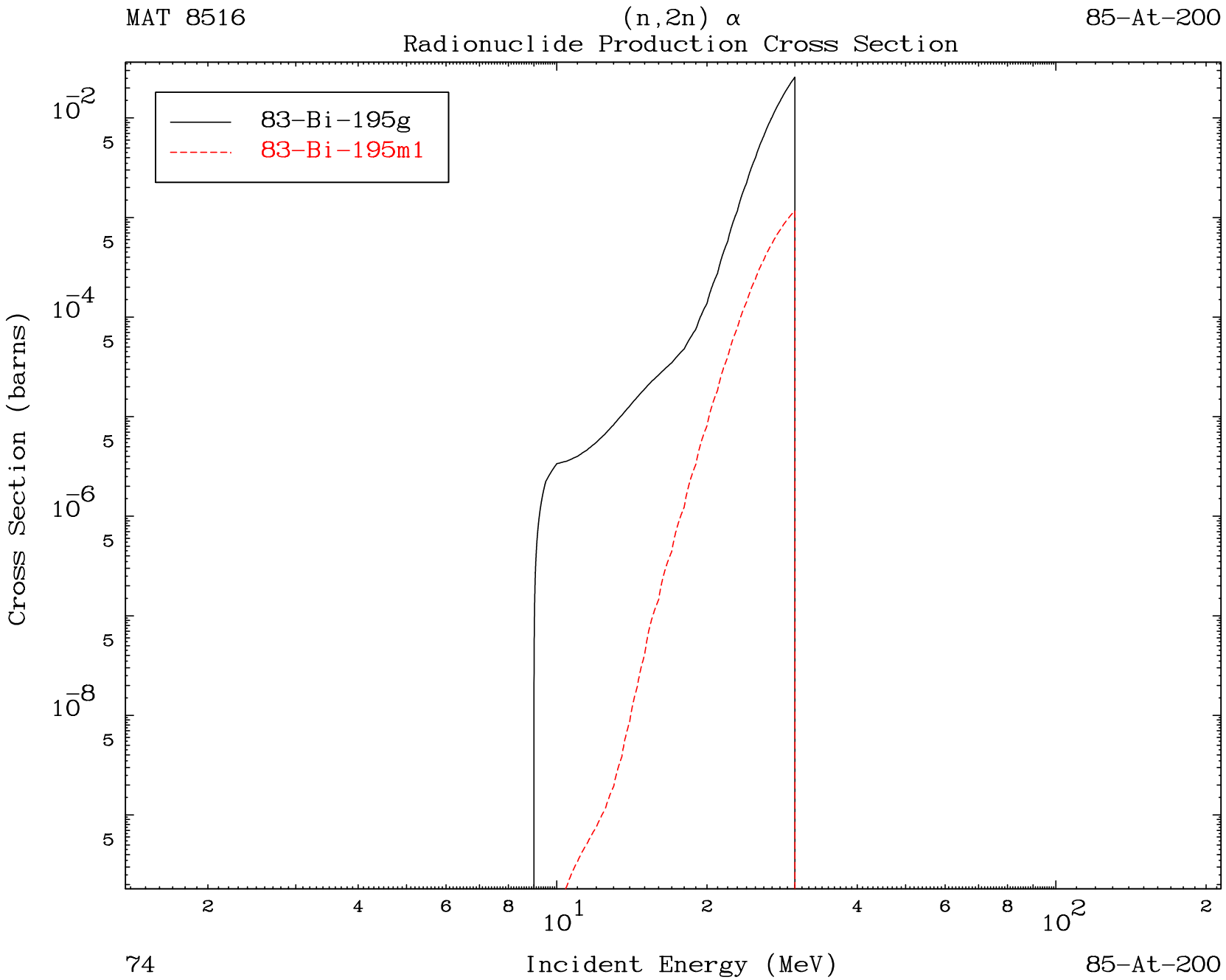

MAT 8516
Inelastic
85-At-200
Radionuclide Production Cross Section
85-At-200g
85-At-200m1
85-At-200m3
Cross Section (barns)
10^0
10^-2
10^-4
10^-6
10^-8
2
4
6
8
10^0
2
4
6
8
10^1
2
4
6
8
10^2
2
69
Incident Energy (MeV)
85-At-200

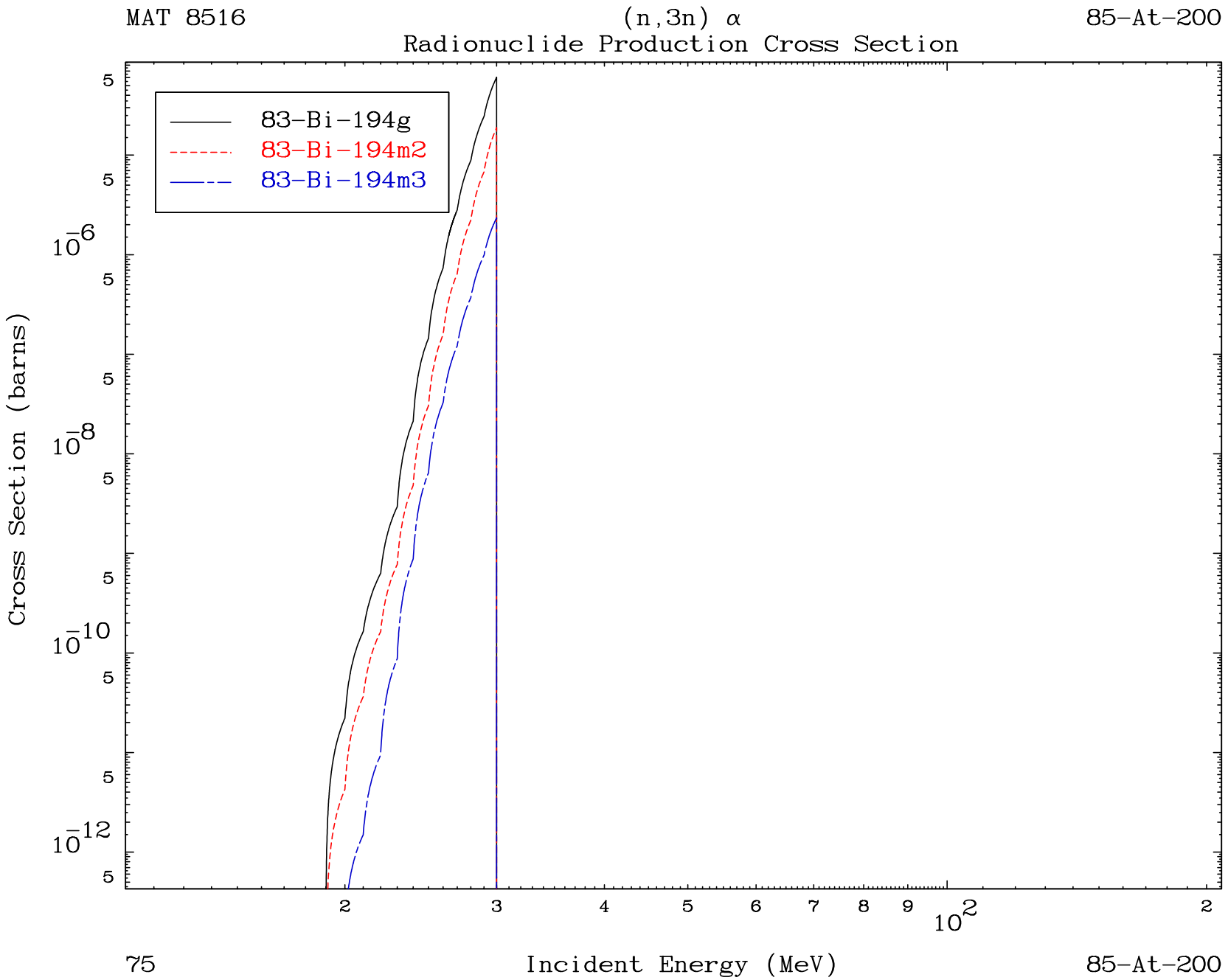

MAT 8516
(n,2n) d
85-At-200
Radionuclide Production Cross Section
84-Po-197g
84-Po-197m2
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
2
3
4
5
6
7
8
9
10^2
2
70
Incident Energy (MeV)
85-At-200

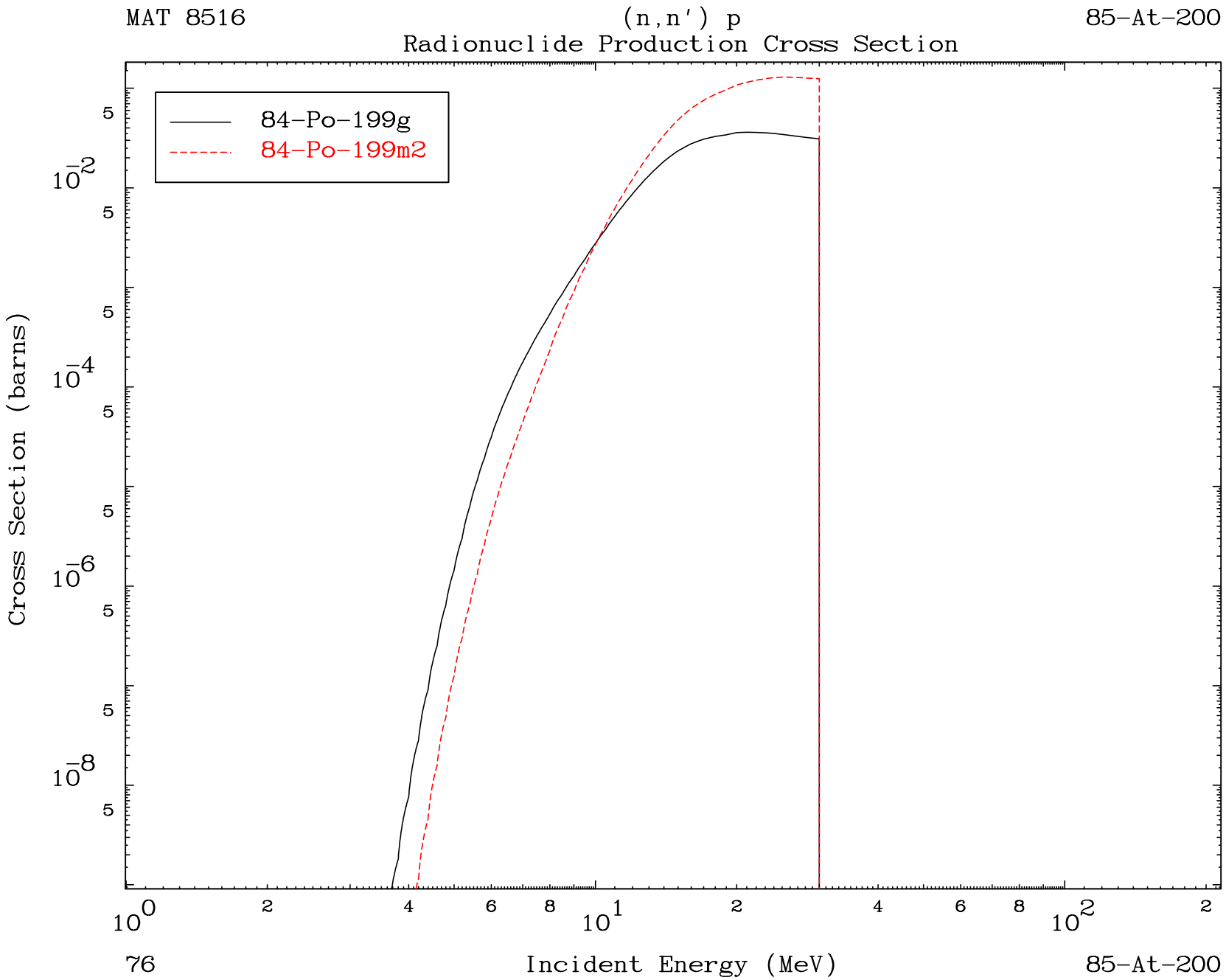

MAT 8516
(n,3n)
85-At-200
Radionuclide Production Cross Section
85-At-198g
85-At-198m1
Cross Section (barns)
Incident Energy (MeV)
71
85-At-200

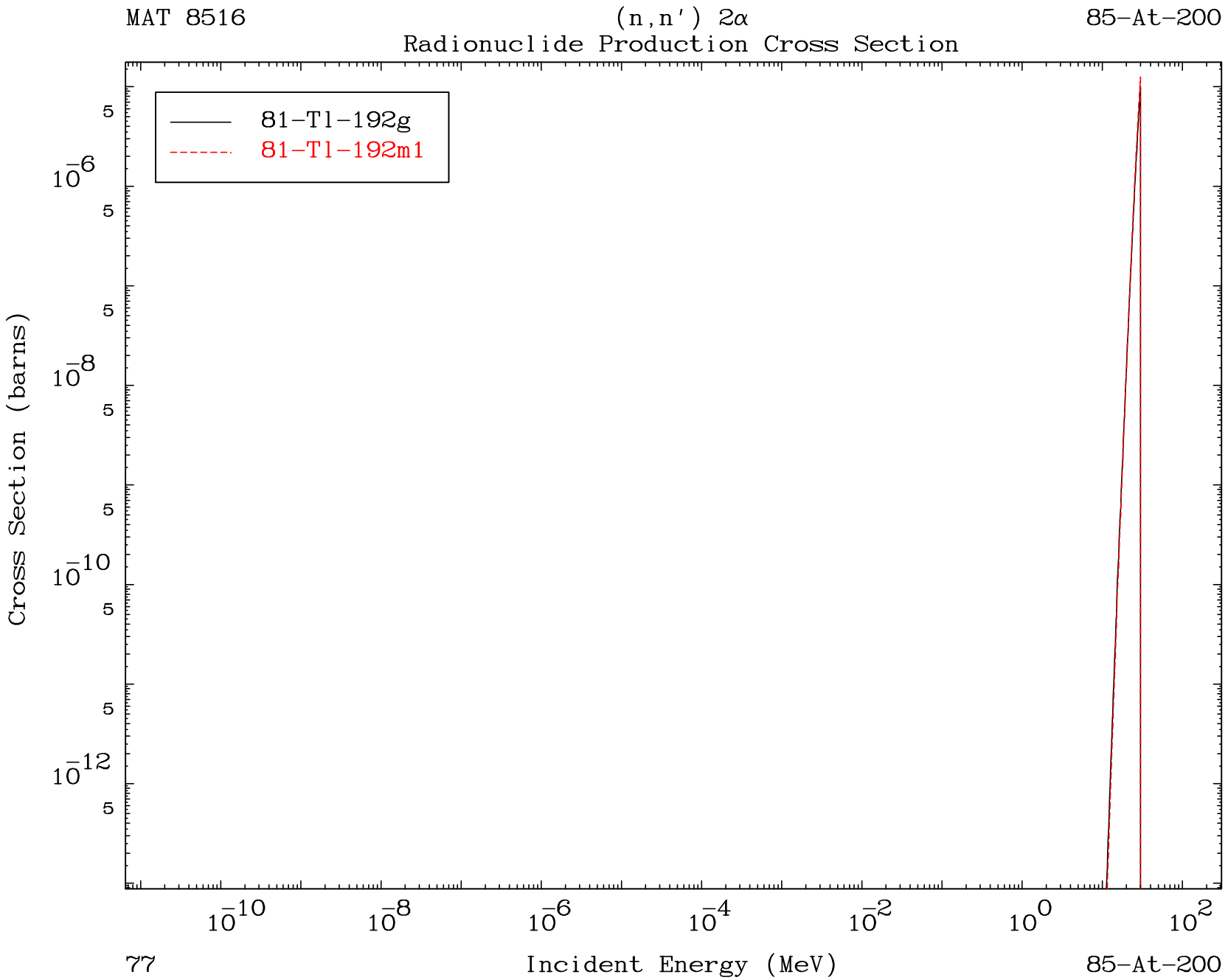

MAT 8516
Fission
85-At-200
Radionuclide Production Cross Section
Photon
Cross Section (barns)
10^{-2}
10^{-4}
10^{-6}
10^{-8}
5
10^{-10}
10^{-8}
10^{-6}
10^{-4}
10^{-2}
10^{0}
10^{2}
72
Incident Energy (MeV)
85-At-200

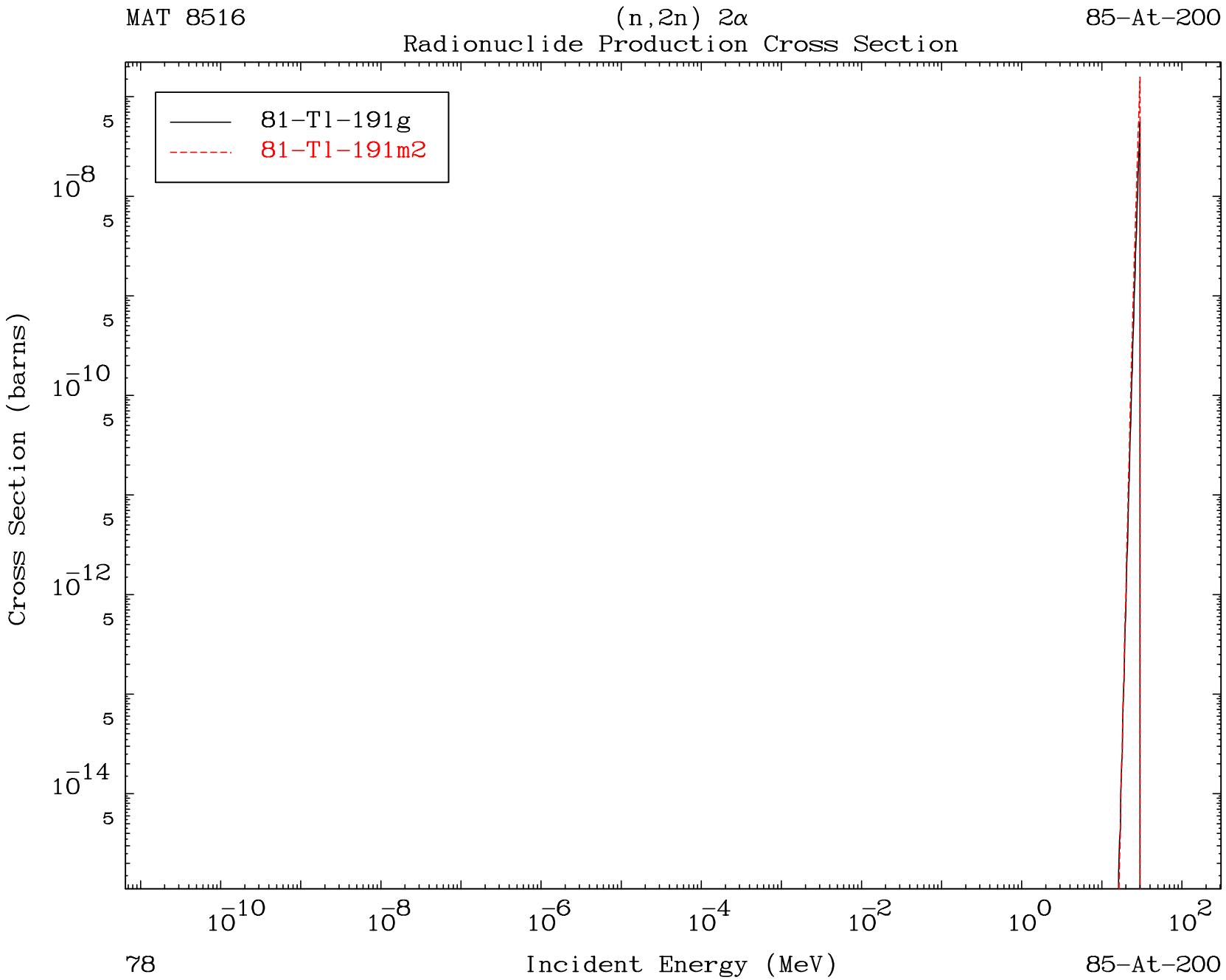

MAT 8516
(n,n') α
85-At-200
Radionuclide Production Cross Section
83-Bi-196g
83-Bi-196m2
83-Bi-196m3
Cross Section (barns)
Incident Energy (MeV)
73
85-At-200

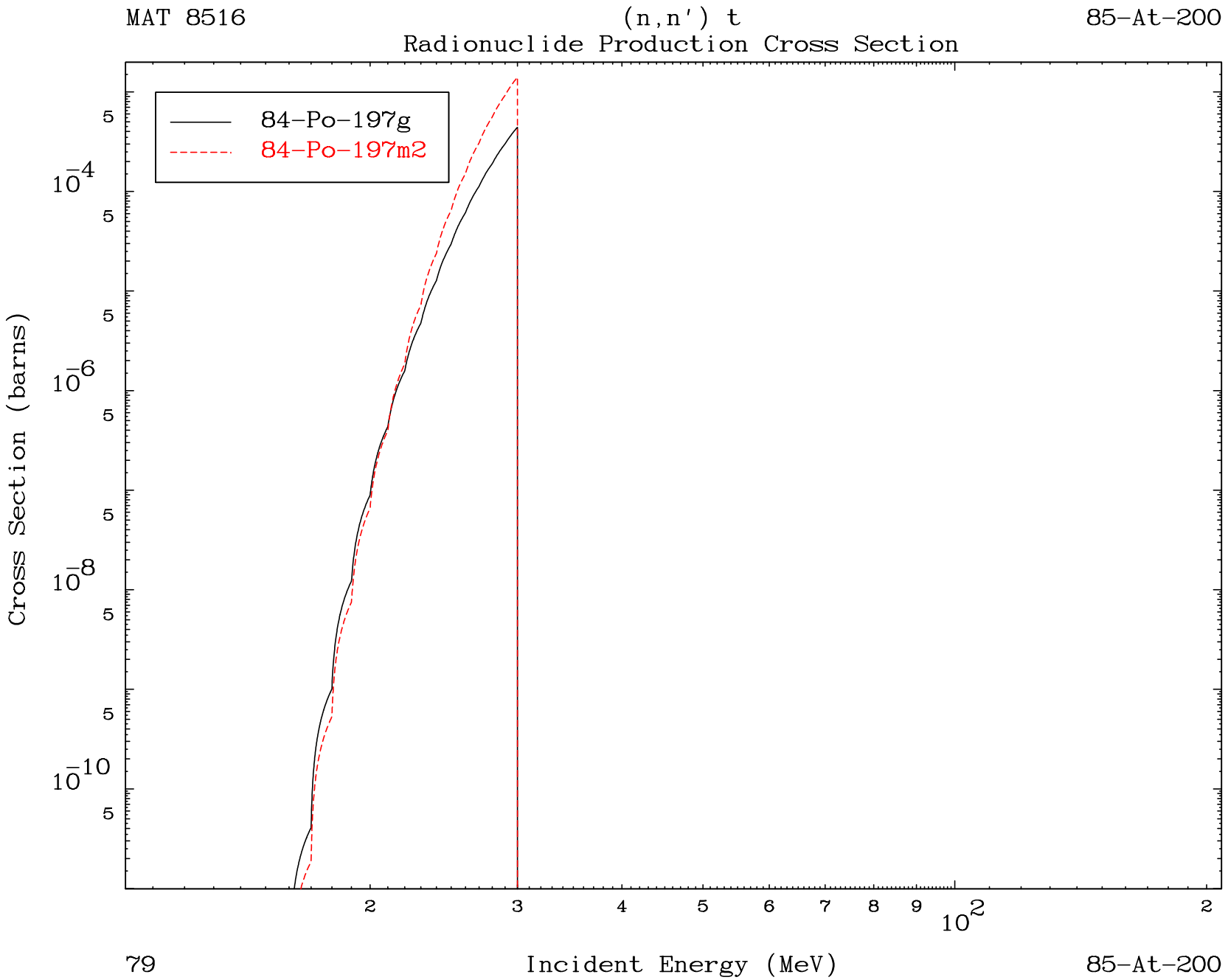

MAT 8516
(n,2n) α
85-At-200
Radionuclide Production Cross Section
83-Bi-195g
83-Bi-195m1
Cross Section (barns)
10-2
10-4
10-6
10-8
5
2
4
6
8
101
102
74
Incident Energy (MeV)
85-At-200

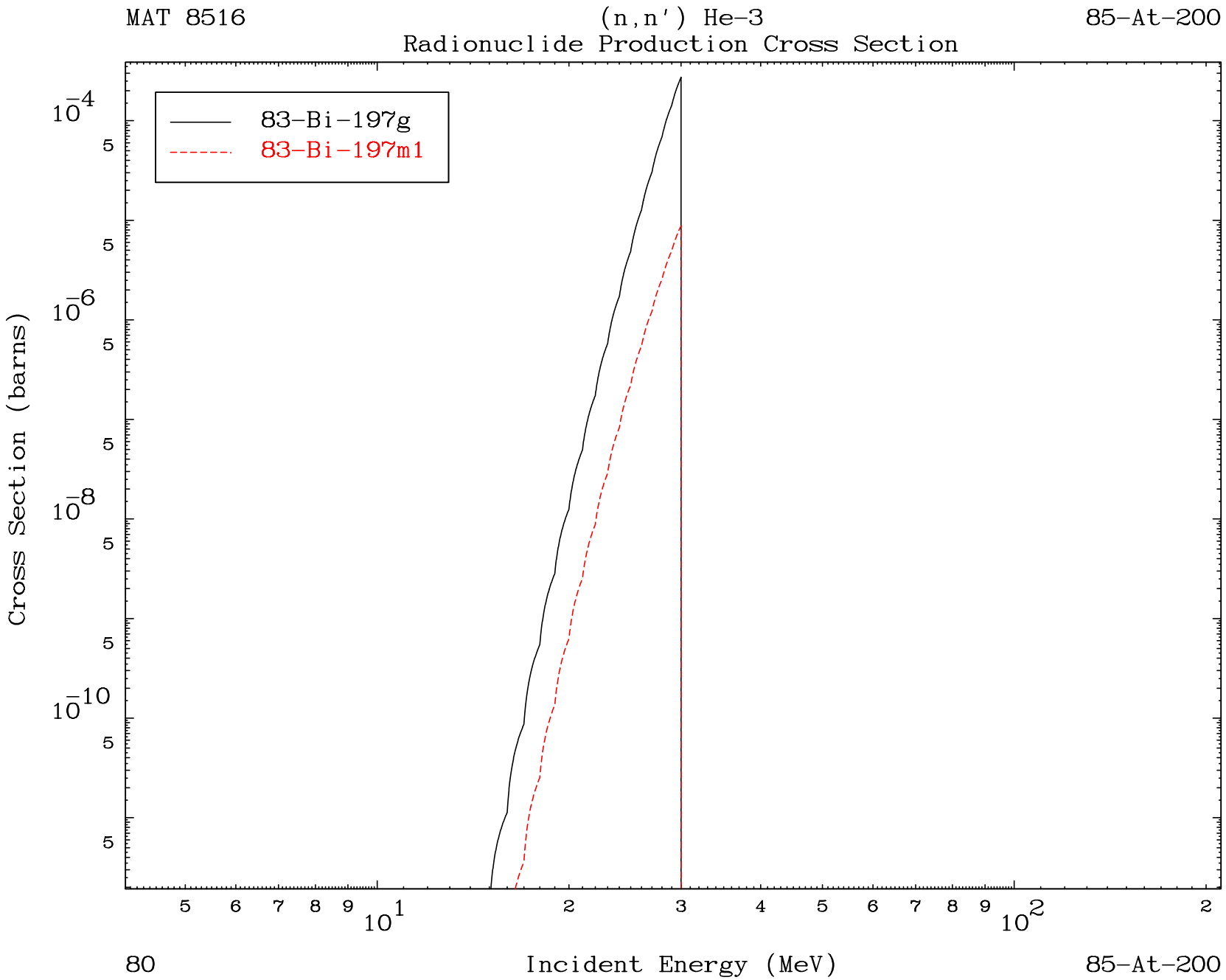

MAT 8516
(n,3n) α
85-At-200
Radionuclide Production Cross Section
83-Bi-194g
83-Bi-194m2
83-Bi-194m3
Cross Section (barns)
10-6
10-8
10-10
10-12
2
3
4
5
6
7
8
9
10 2
75
Incident Energy (MeV)
85-At-200

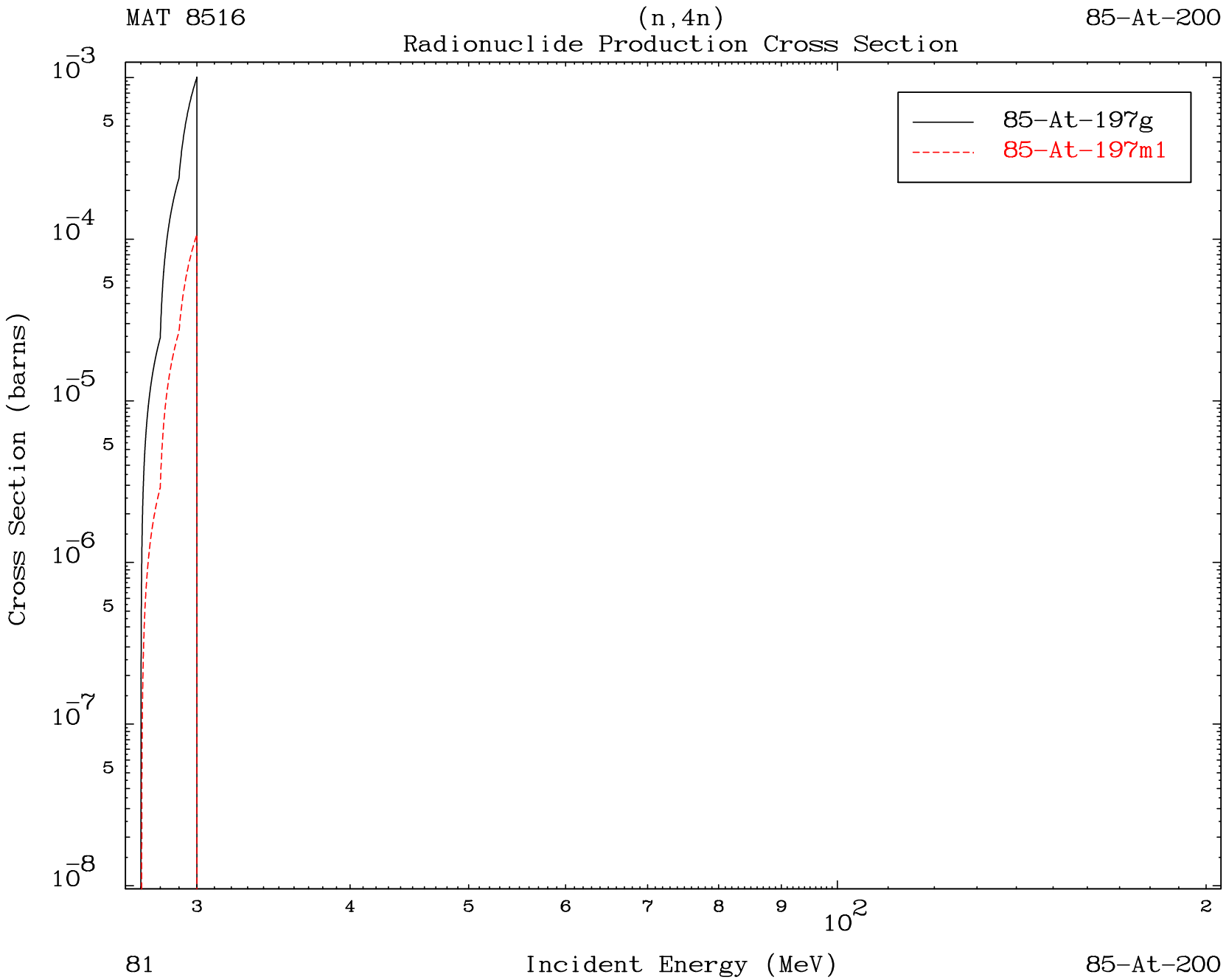

MAT 8516
(n,n') p
85-At-200
Radionuclide Production Cross Section
84-Po-199g
84-Po-199m2
Cross Section (barns)
Incident Energy (MeV)
76
85-At-200

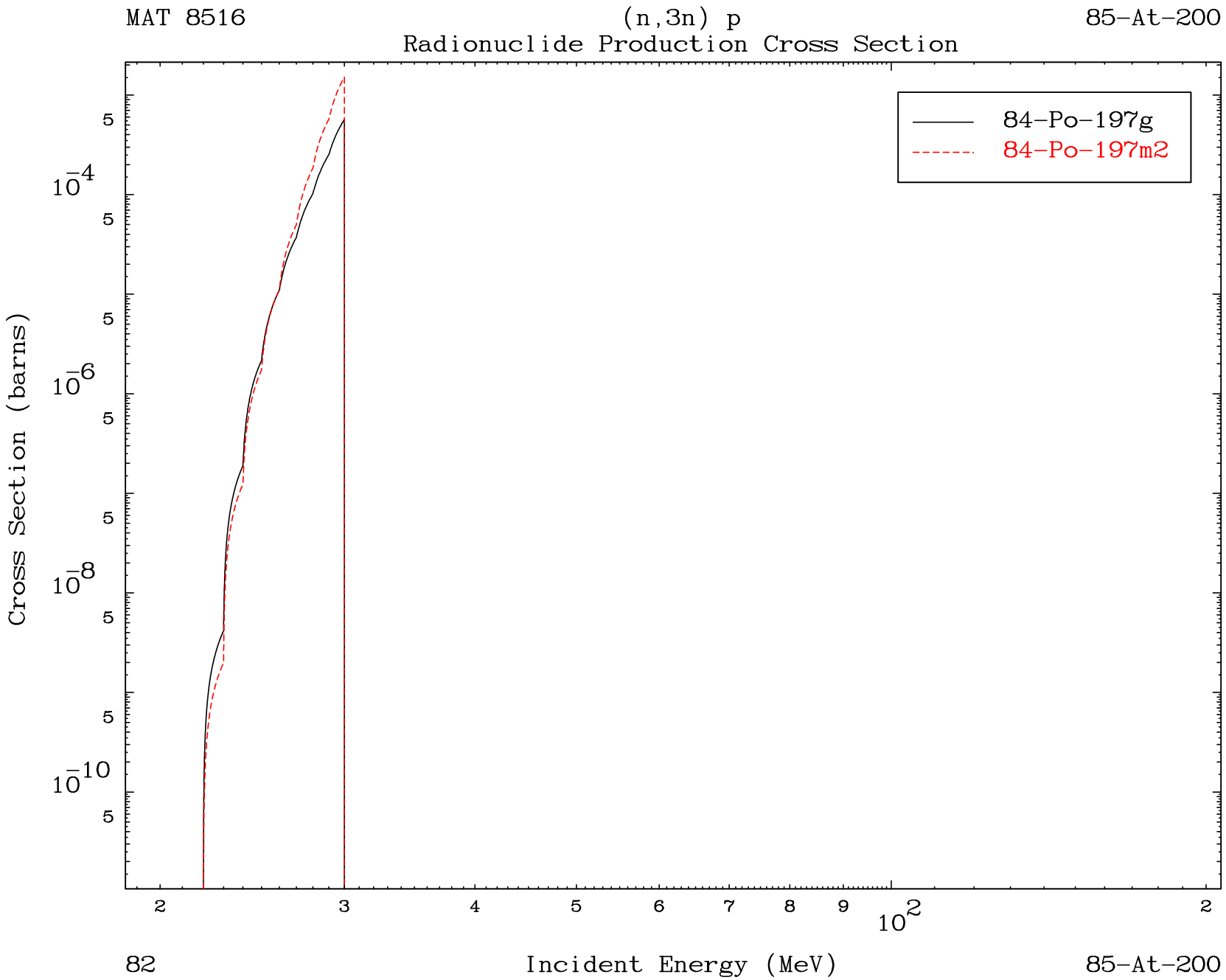

MAT 8516
(n,n') 2α
85-At-200
Radionuclide Production Cross Section
81-Tl-192g
81-Tl-192m1
Cross Section (barns)
Incident Energy (MeV)
77
85-At-200

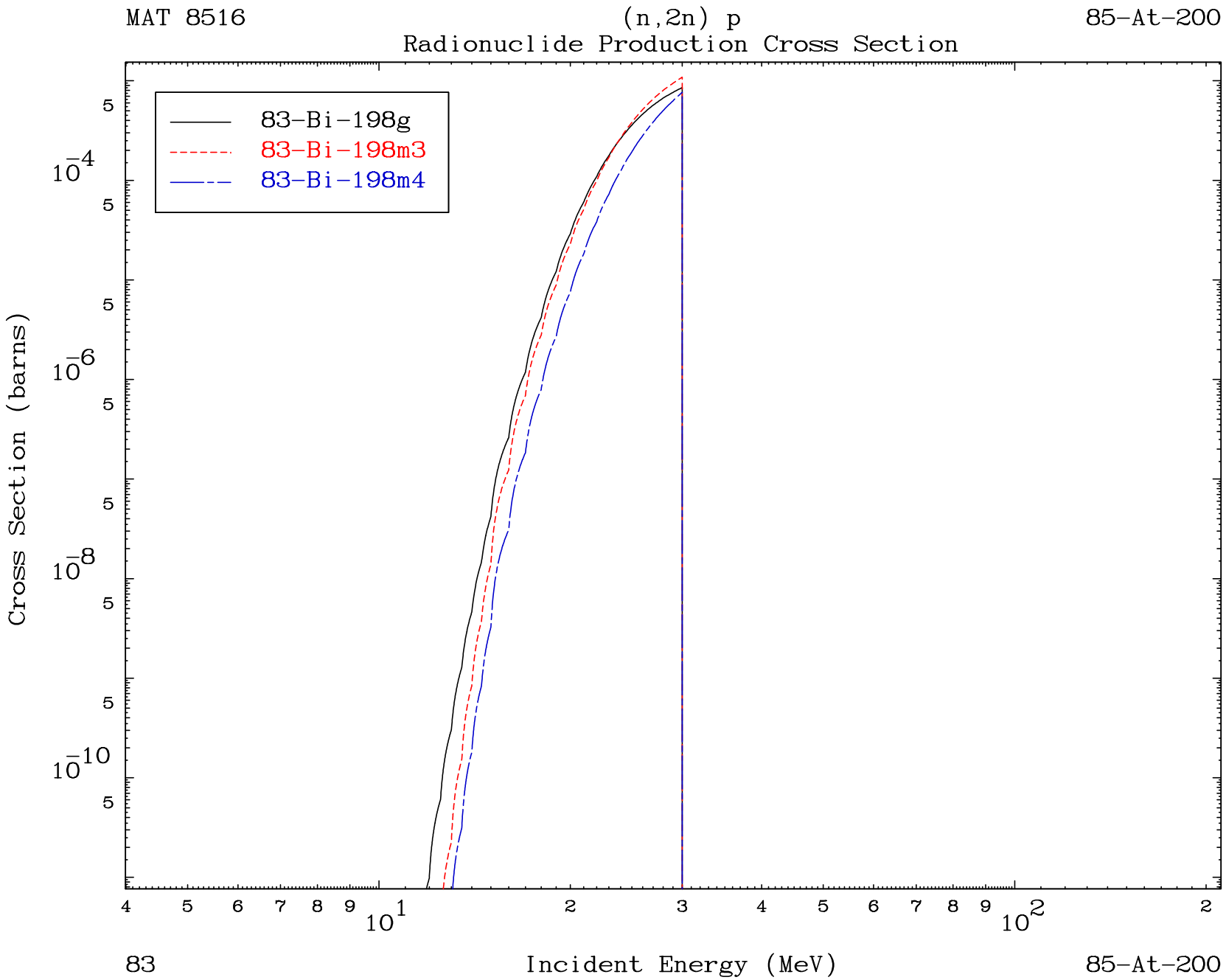

MAT 8516
(n,2n) 2α
85-At-200
Radionuclide Production Cross Section
81-Tl-191g
81-Tl-191m2
Cross Section (barns)
10^-8
10^-10
10^-12
10^-14
5
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
78
Incident Energy (MeV)
85-At-200

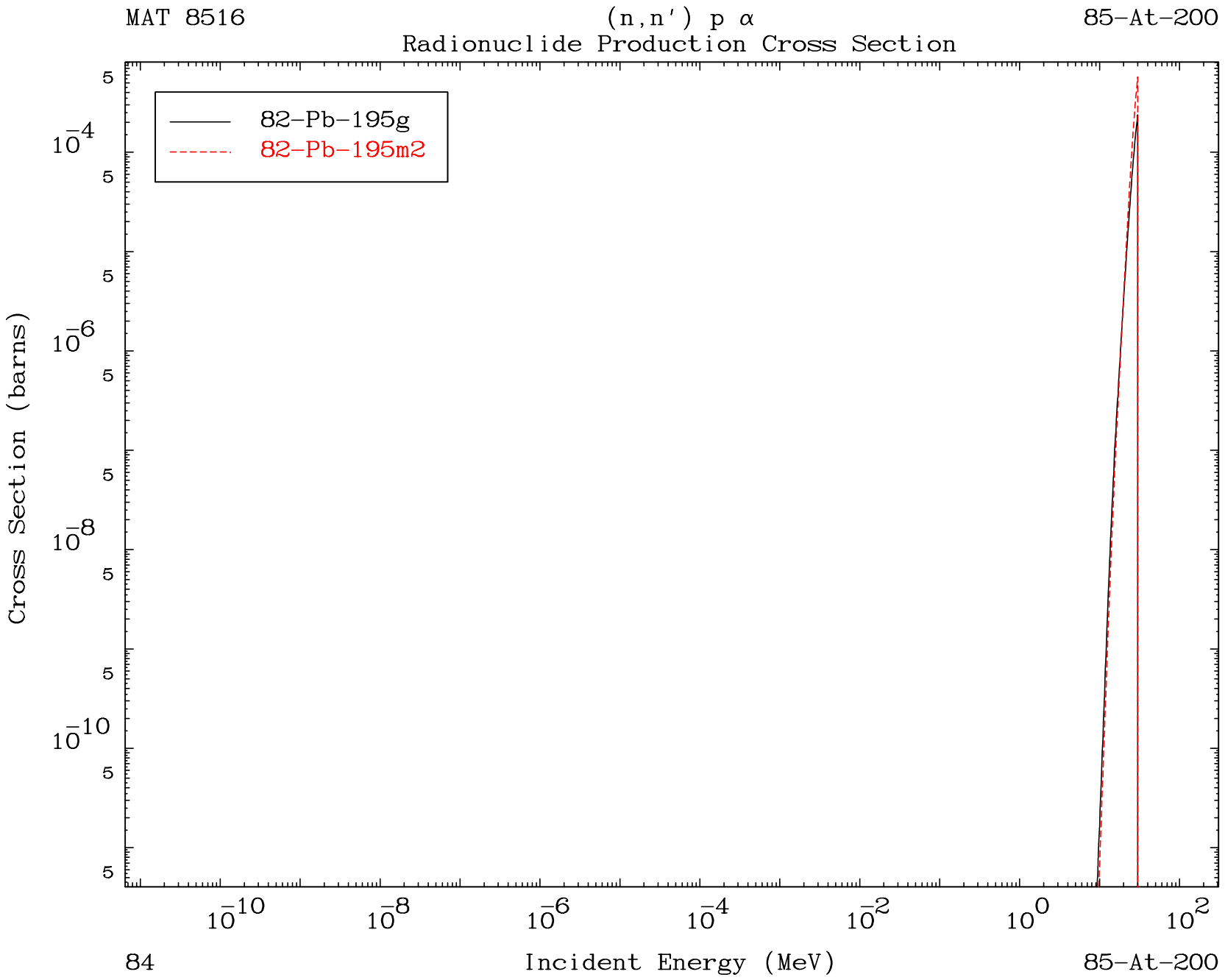

MAT 8516
(n,n') t
85-At-200
Radionuclide Production Cross Section
84-Po-197g
84-Po-197m2
Cross Section (barns)
10-4
10-6
10-8
10-10
5
2
3
4
5
6
7
8
9
10 2
2
79
Incident Energy (MeV)
85-At-200

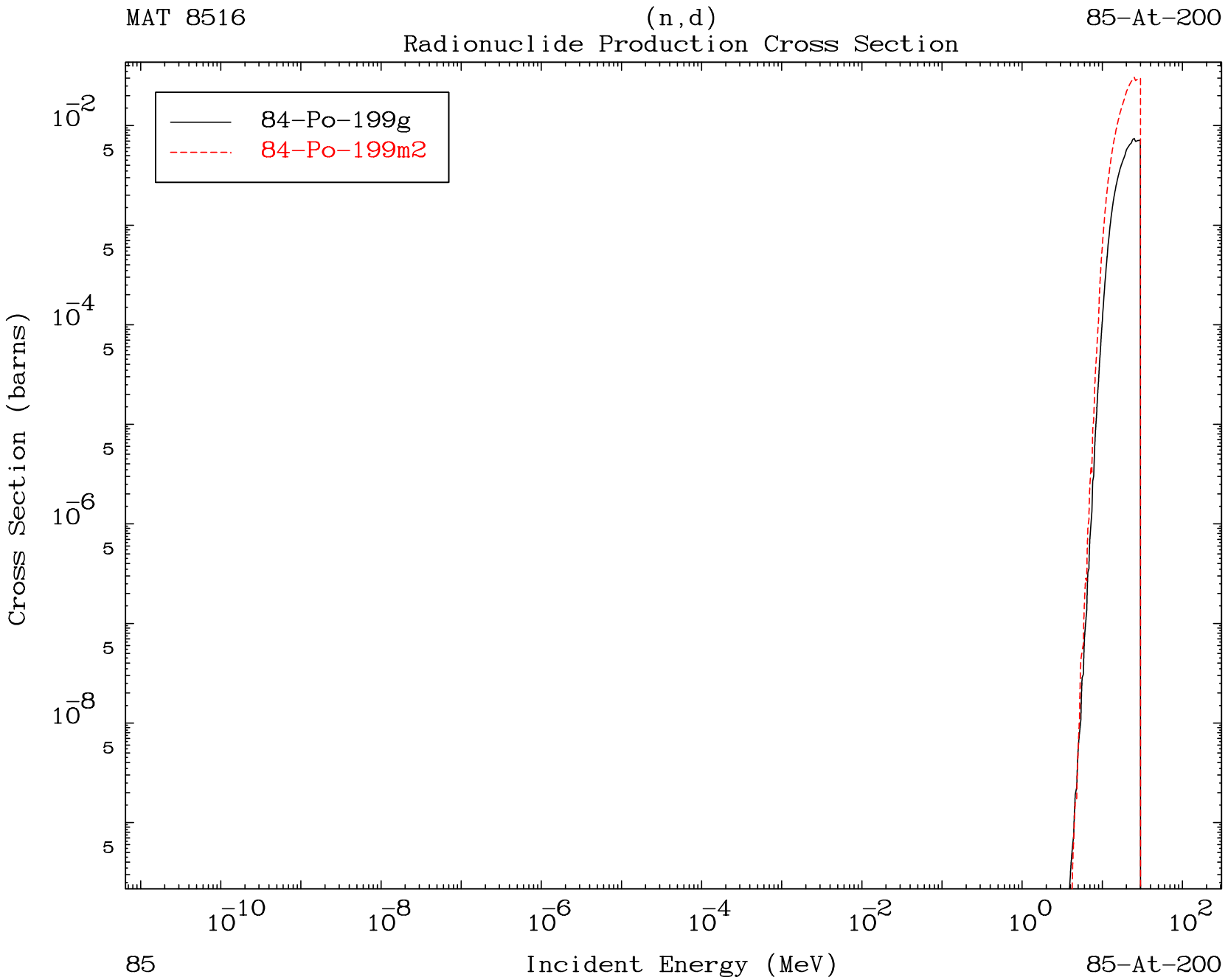

MAT 8516
(n,n') He-3
85-At-200
Radionuclide Production Cross Section
83-Bi-197g
83-Bi-197m1
Cross Section (barns)
Incident Energy (MeV)
80
85-At-200

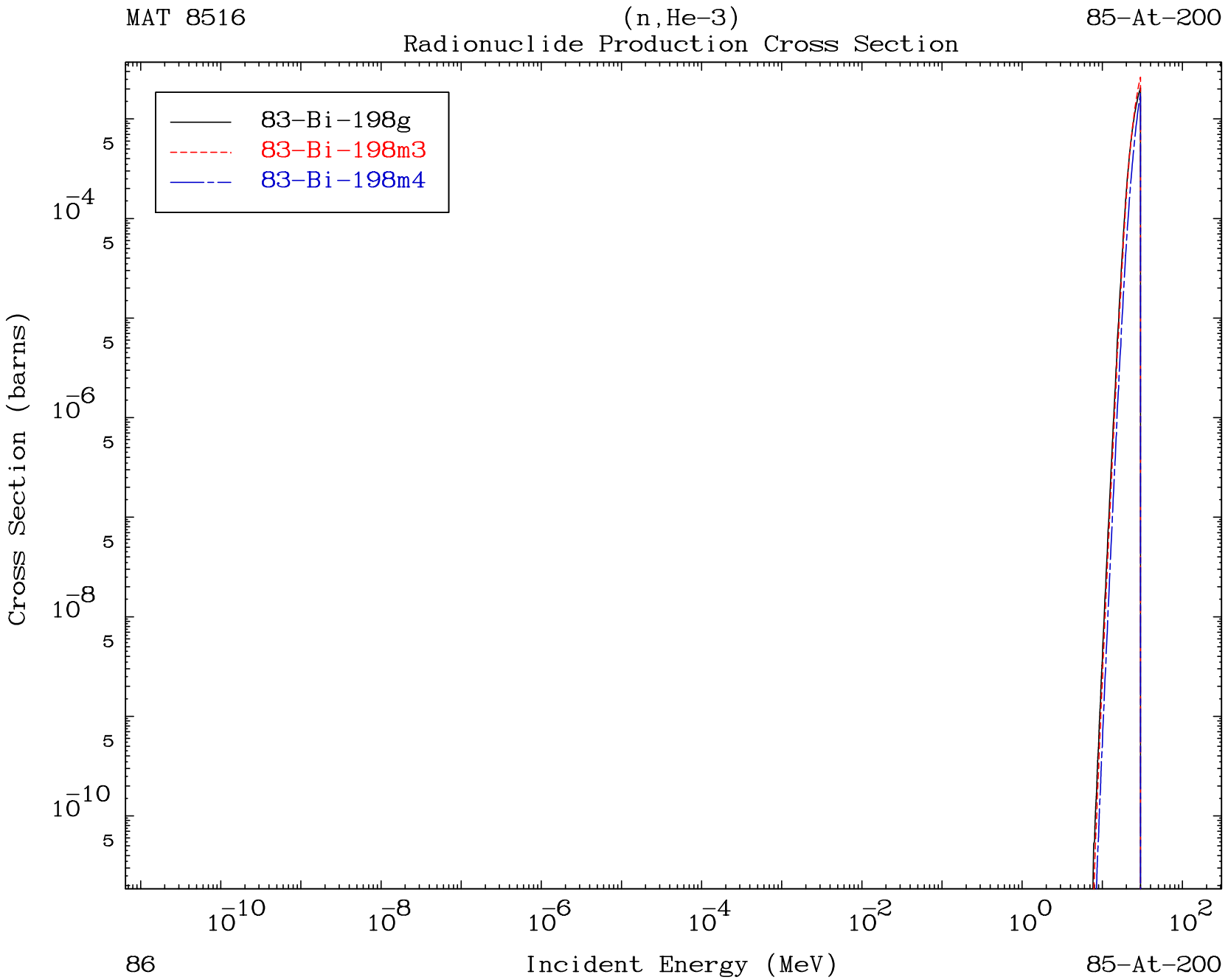

MAT 8516
(n,4n)
85-At-200
Radionuclide Production Cross Section
85-At-197g
85-At-197m1
Cross Section (barns)
10-3
10-4
10-5
10-6
10-7
10-8
3
4
5
6
7
8
9
10 2
2
81
Incident Energy (MeV)
85-At-200

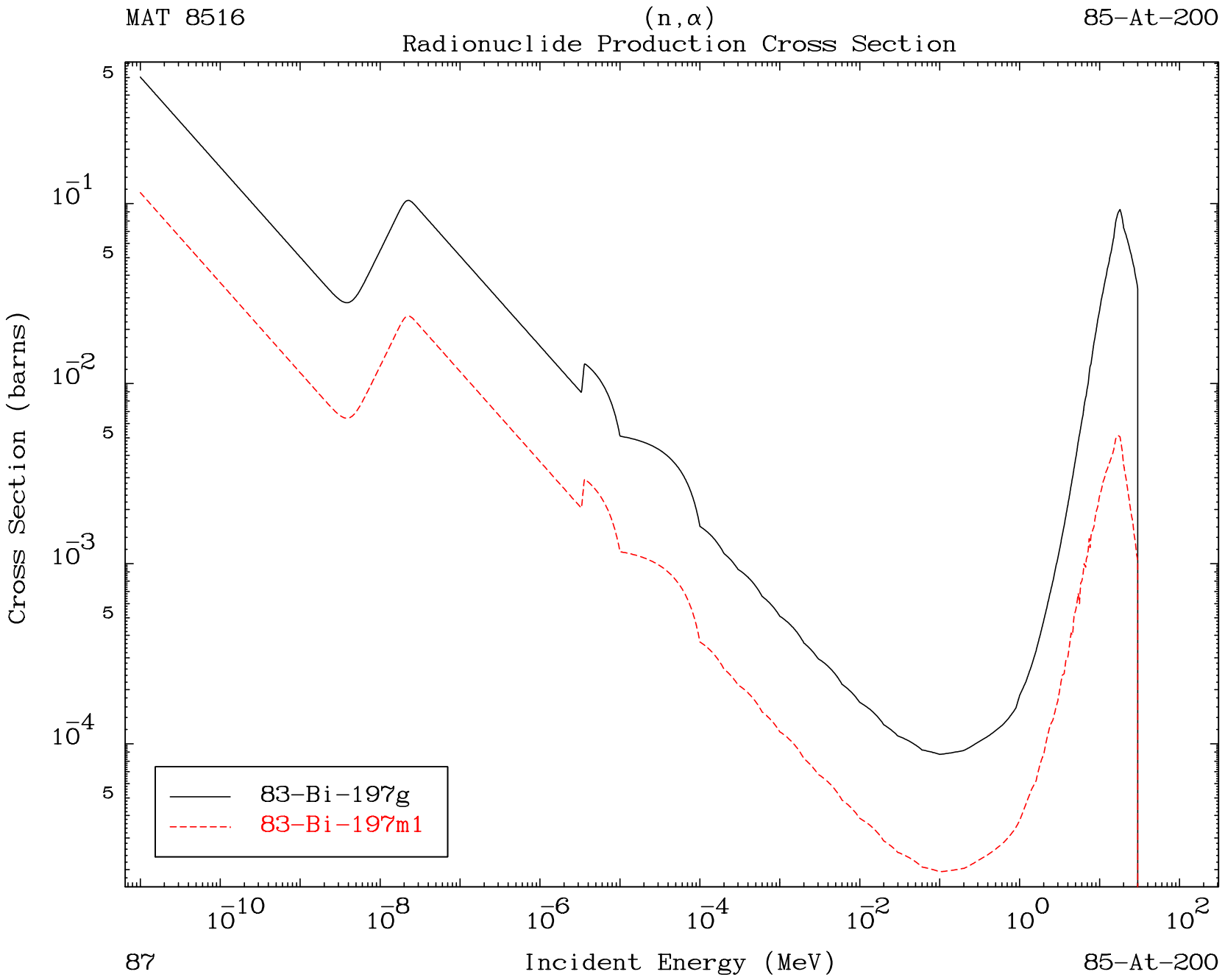

MAT 8516
(n,3n) p
85-At-200
Radionuclide Production Cross Section
84-Po-197g
84-Po-197m2
Cross Section (barns)
10-4
10-6
10-8
10-10
2
3
4
5
6
7
8
9
10 2
2
82
Incident Energy (MeV)
85-At-200

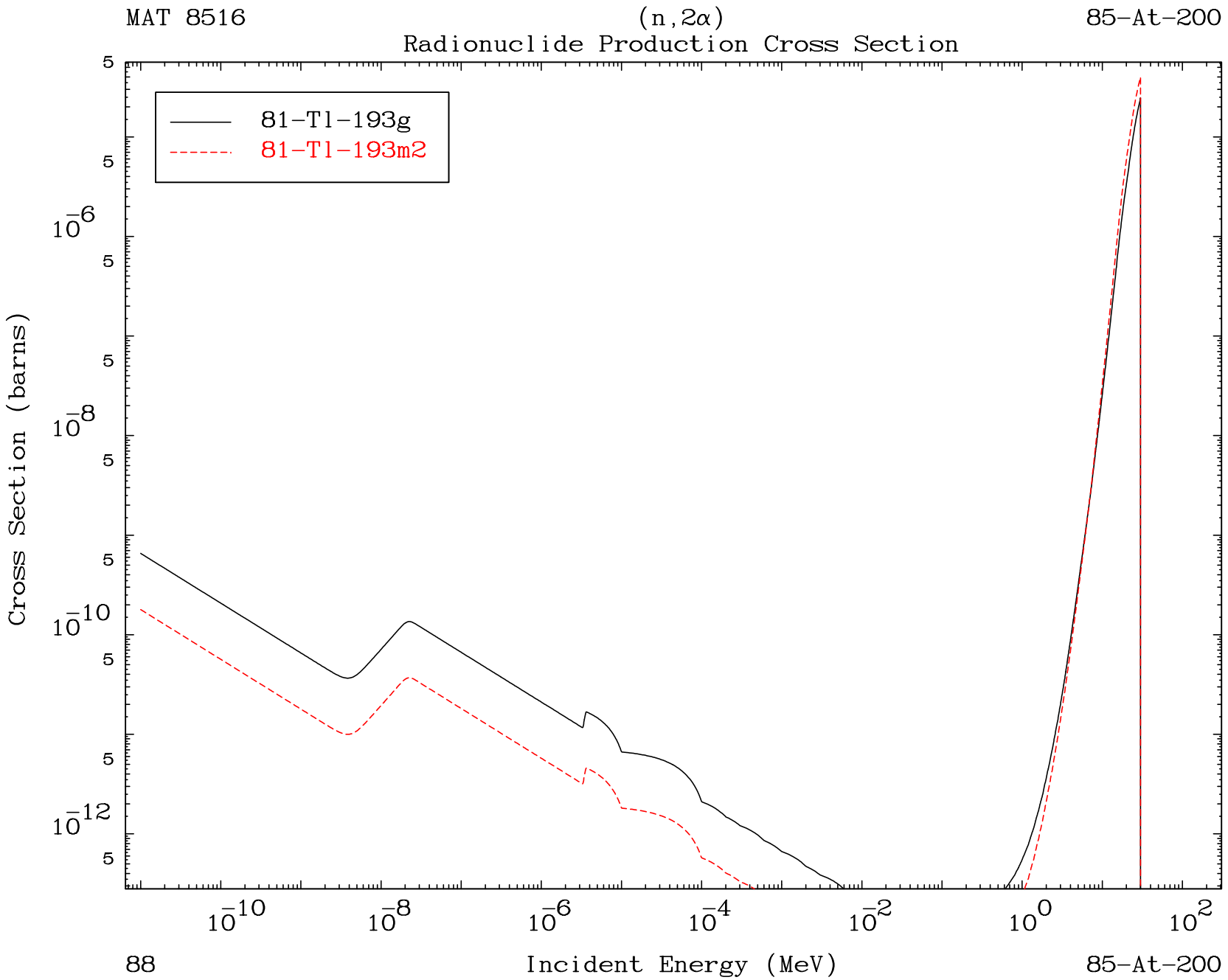

MAT 8516
(n,2n) p
85-At-200
Radionuclide Production Cross Section
83-Bi-198g
83-Bi-198m3
83-Bi-198m4
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
4 5 6 7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
83
Incident Energy (MeV)
85-At-200

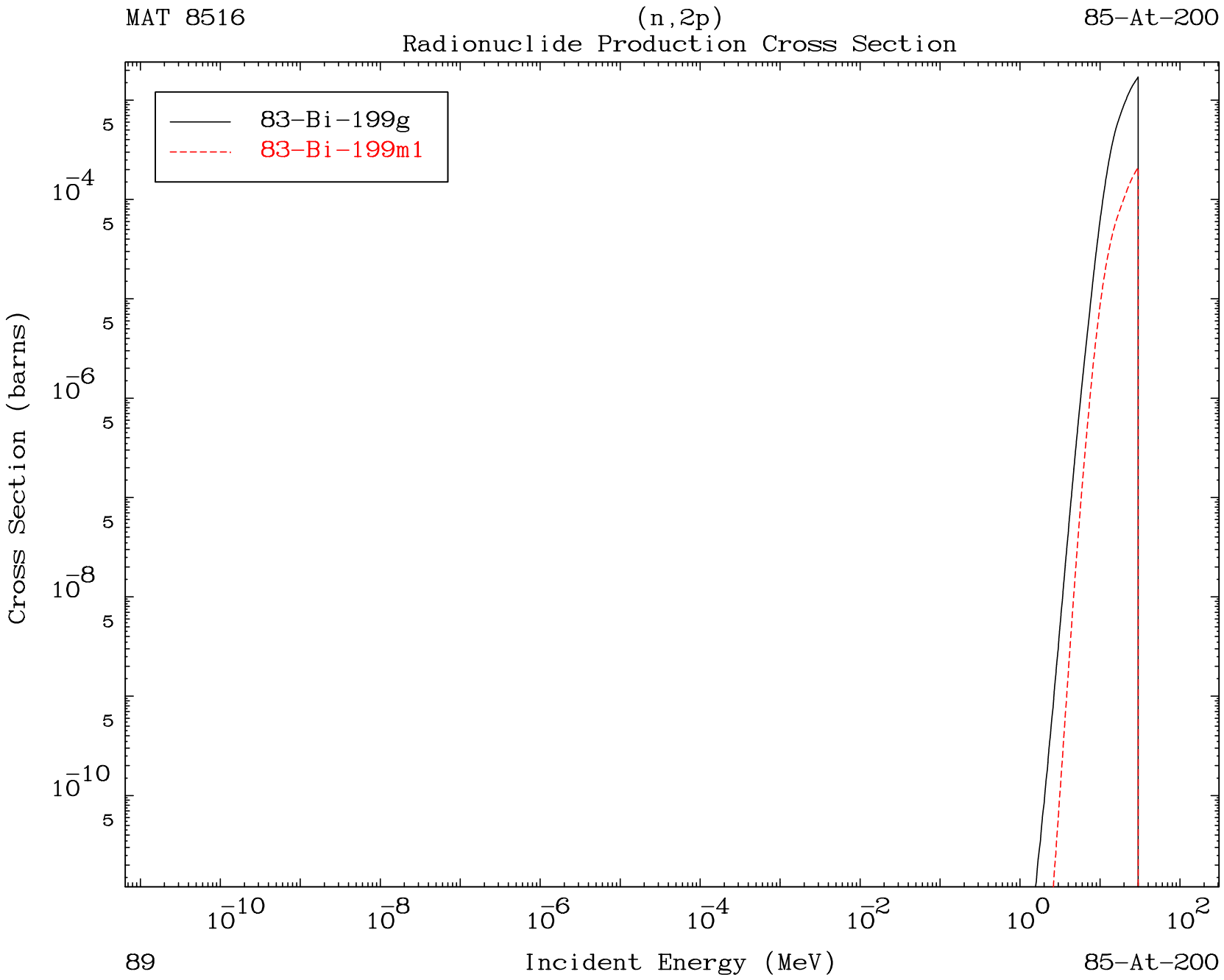

MAT 8516
(n,n') p α
85-At-200
Radionuclide Production Cross Section
82-Pb-195g
82-Pb-195m2
Cross Section (barns)
Incident Energy (MeV)
84
85-At-200

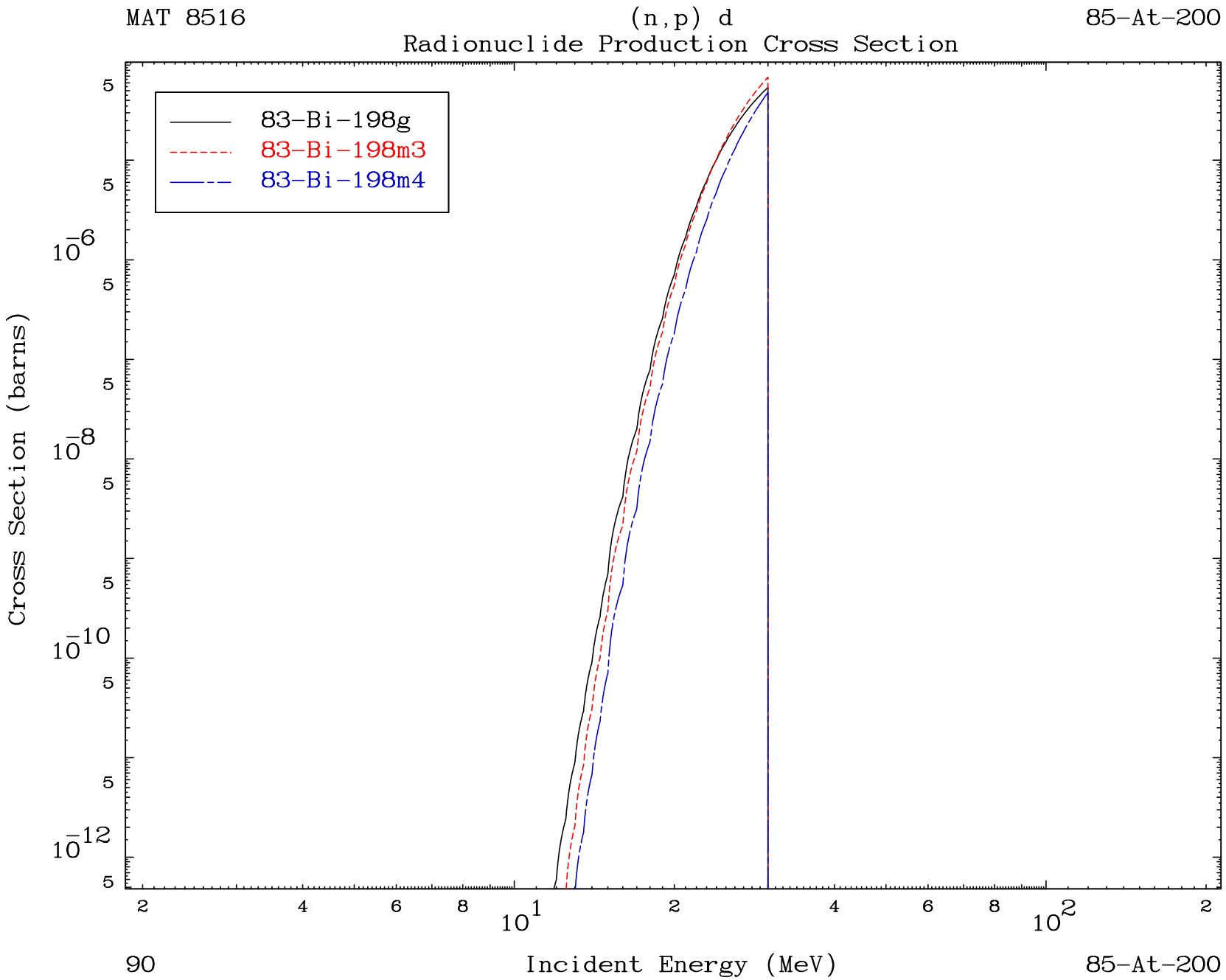

MAT 8516
(n,d)
85-At-200
Radionuclide Production Cross Section
84-Po-199g
84-Po-199m2
Cross Section (barns)
Incident Energy (MeV)
85
85-At-200

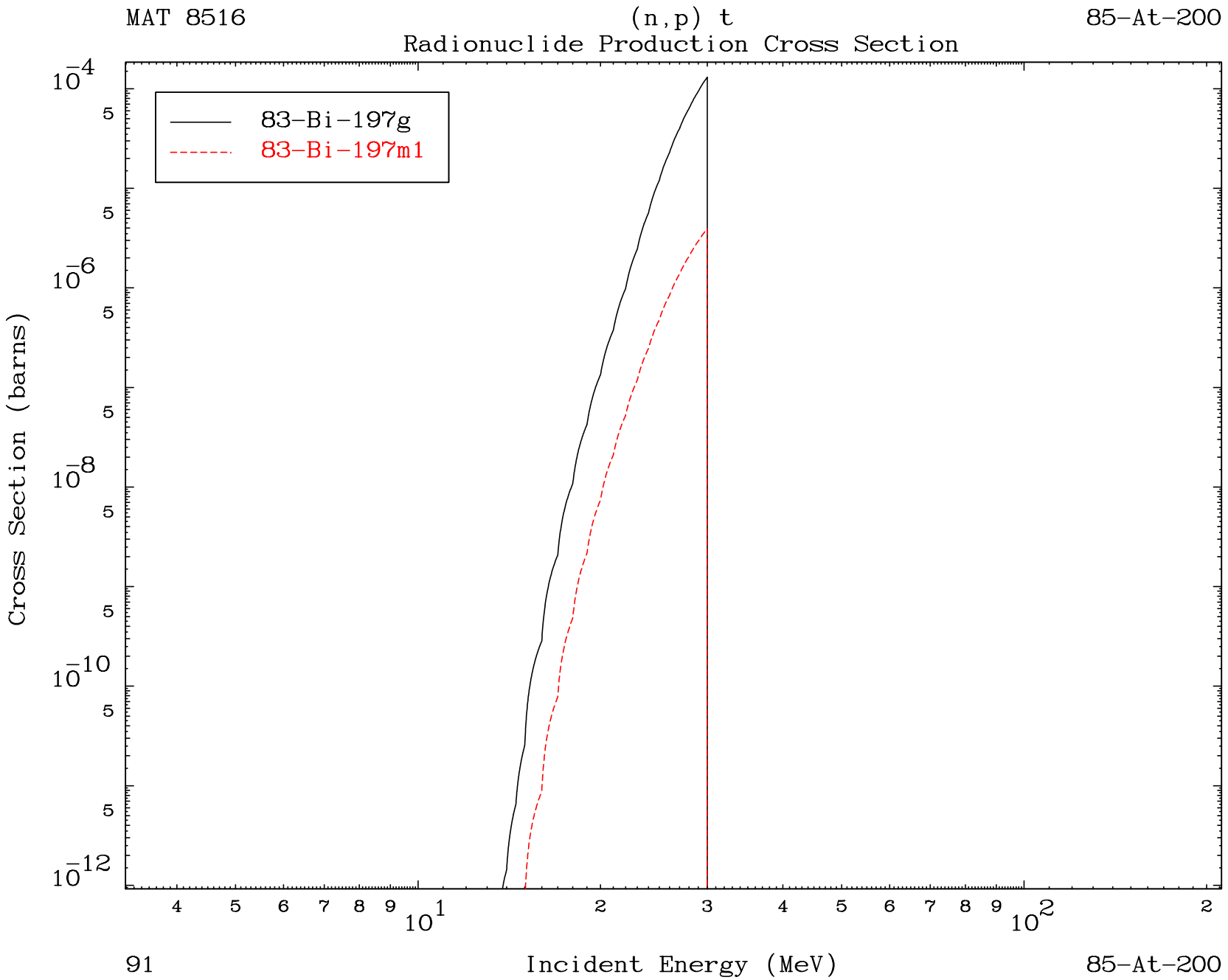

MAT 8516
(n,He-3)
85-At-200
Radionuclide Production Cross Section
83-Bi-198g
83-Bi-198m3
83-Bi-198m4
Cross Section (barns)
Incident Energy (MeV)
86
85-At-200

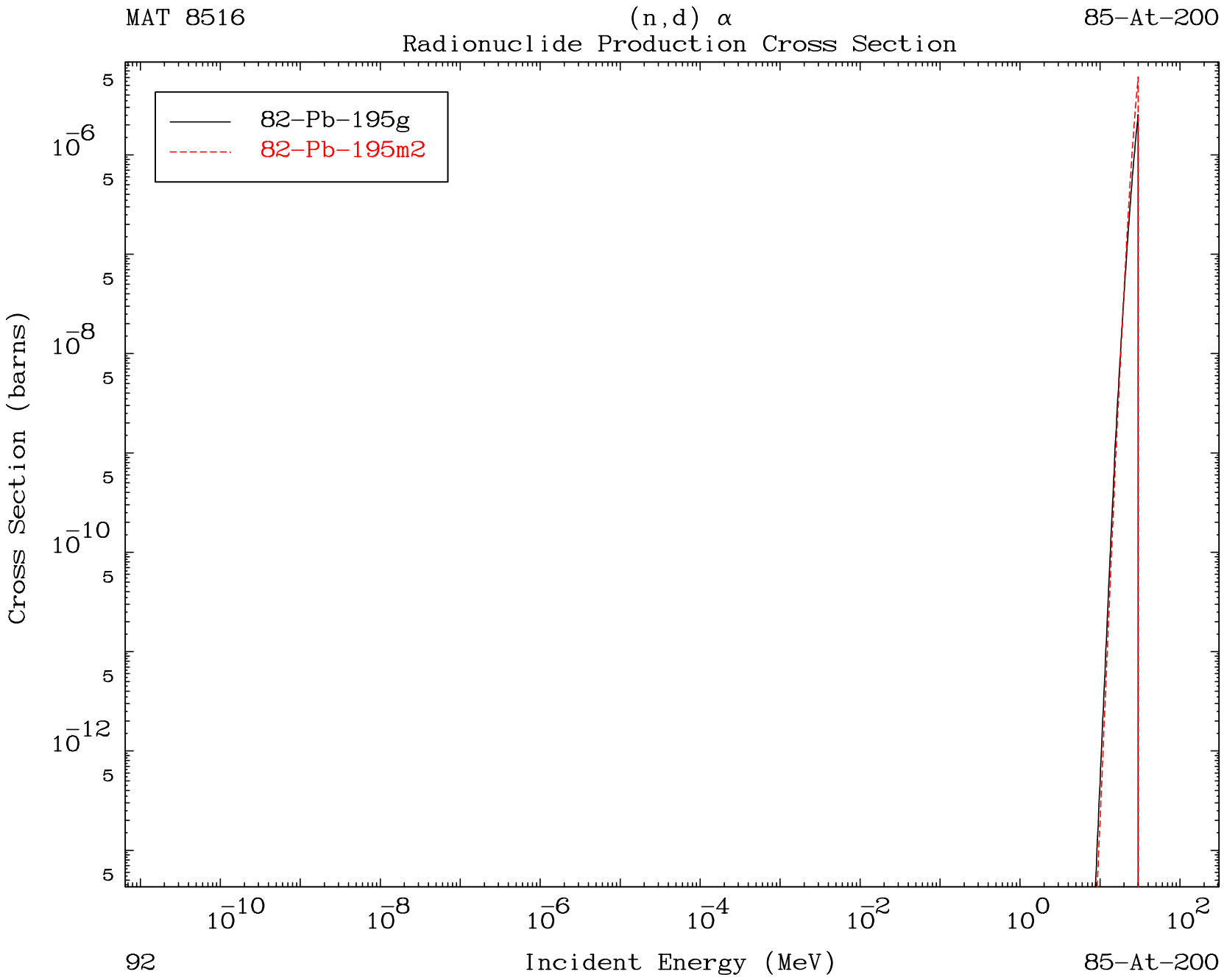

MAT 8516
(n,α)
85-At-200
Radionuclide Production Cross Section
Cross Section (barns)
5
10-1
5
10-2
5
10-3
5
10-4
5
83-Bi-197g
83-Bi-197m1
10-10
10-8
10-6
10-4
10-2
100
102
87
Incident Energy (MeV)
85-At-200


MAT 8516
(n,2α)
85-At-200
Radionuclide Production Cross Section
81-Tl-193g
81-Tl-193m2
Cross Section (barns)
Incident Energy (MeV)
88
85-At-200


MAT 8516
(n,2p)
85-At-200
Radionuclide Production Cross Section
83-Bi-199g
83-Bi-199m1
Cross Section (barns)
Incident Energy (MeV)
89
85-At-200


MAT 8516
(n,p) d
85-At-200
Radionuclide Production Cross Section
83-Bi-198g
83-Bi-198m3
83-Bi-198m4
Cross Section (barns)
Incident Energy (MeV)
90
85-At-200


MAT 8516
(n,p) t
85-At-200
Radionuclide Production Cross Section
83-Bi-197g
83-Bi-197m1
Cross Section (barns)
Incident Energy (MeV)
91
85-At-200


MAT 8516
(n,d) α
85-At-200
Radionuclide Production Cross Section
82-Pb-195g
82-Pb-195m2
Cross Section (barns)
Incident Energy (MeV)
92
85-At-200