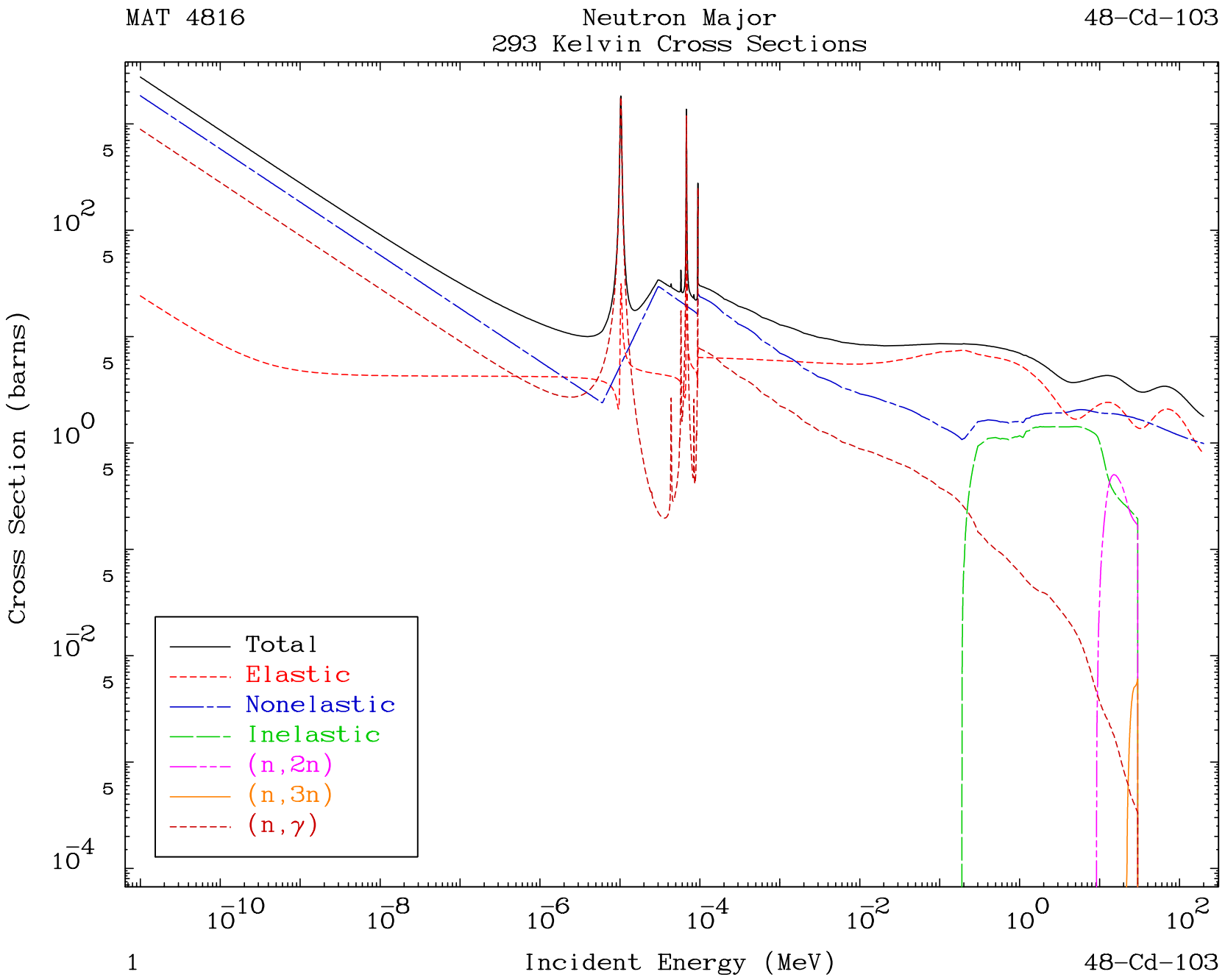
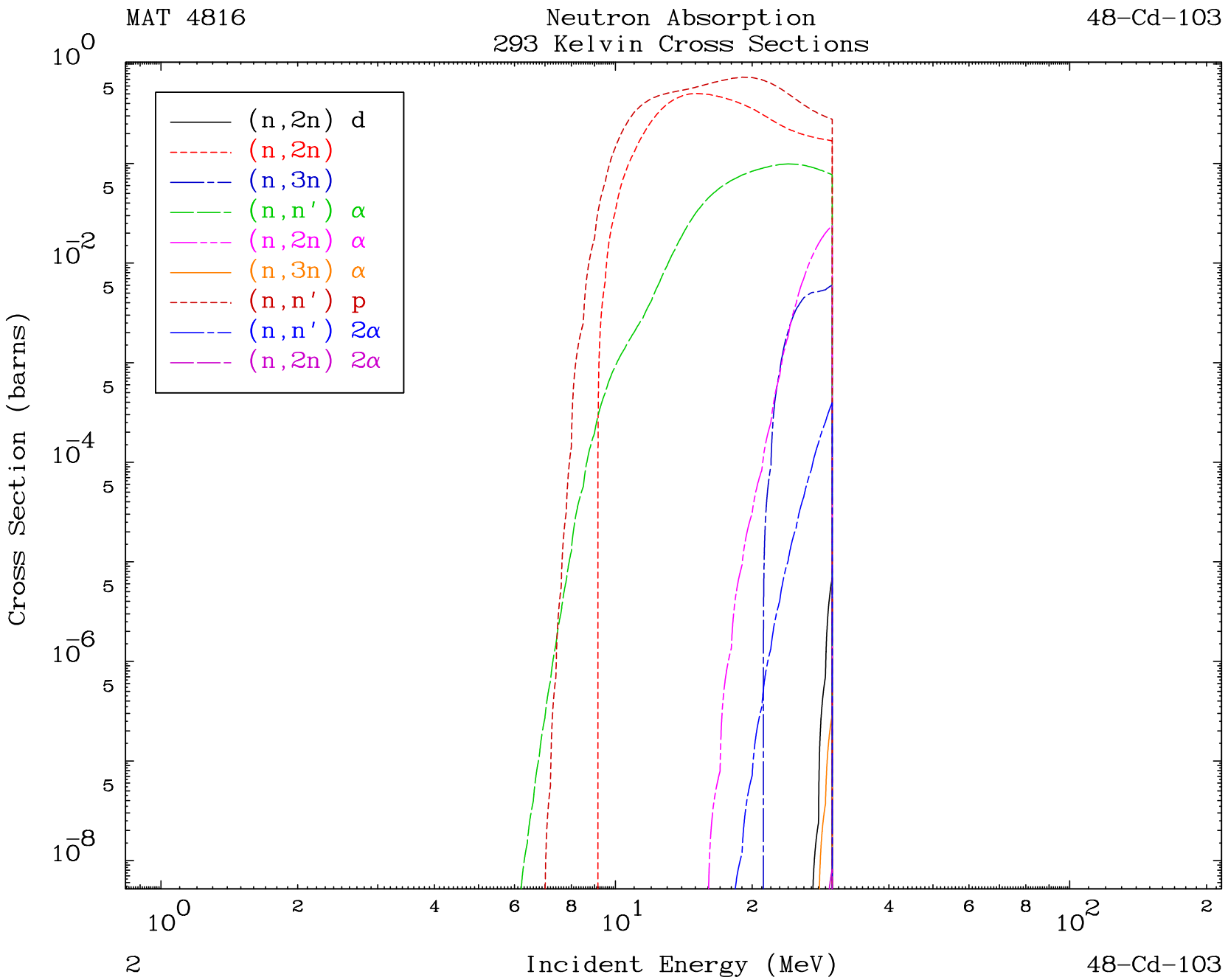
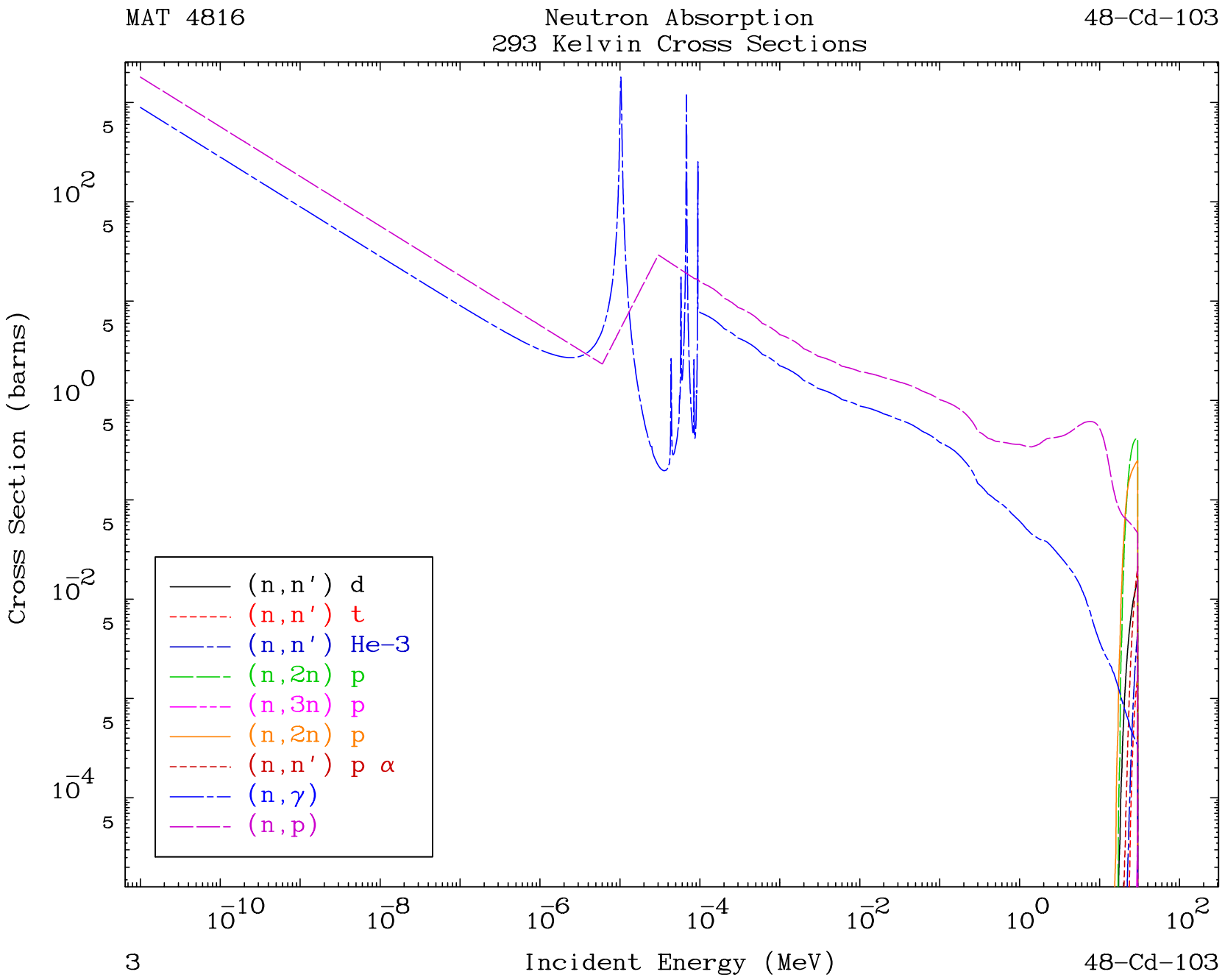
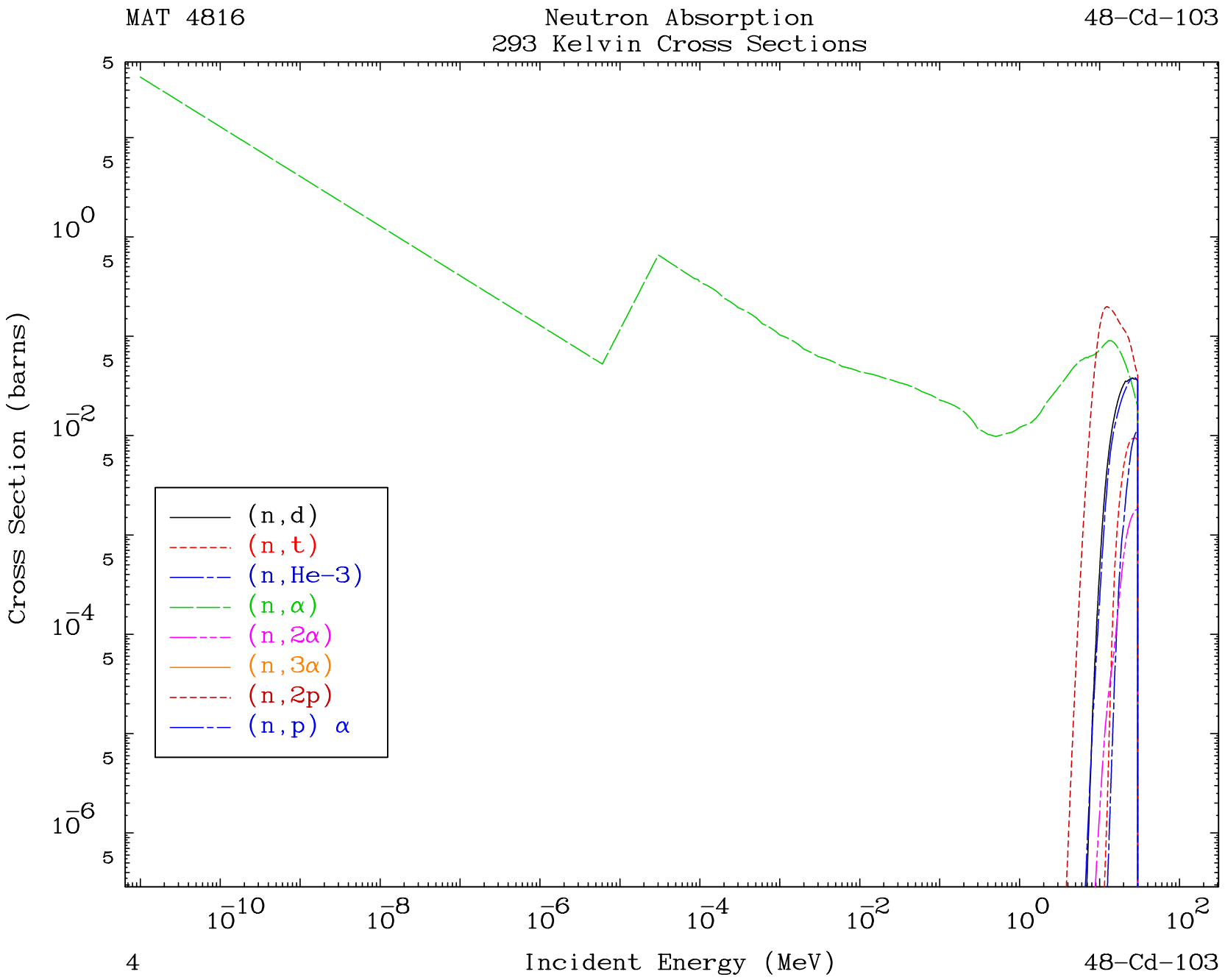
Program EVALPLOT
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

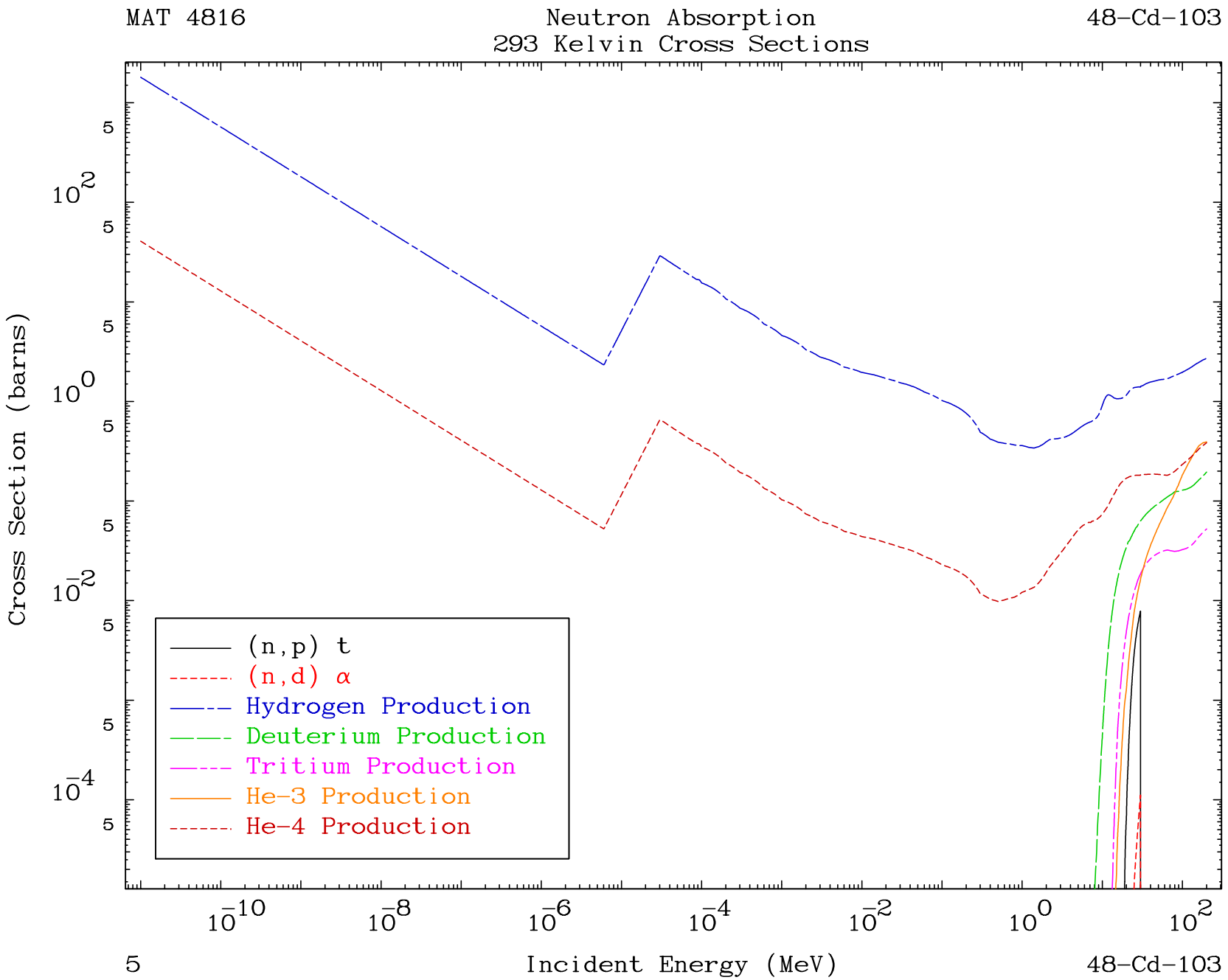
Press Mouse Button to Start

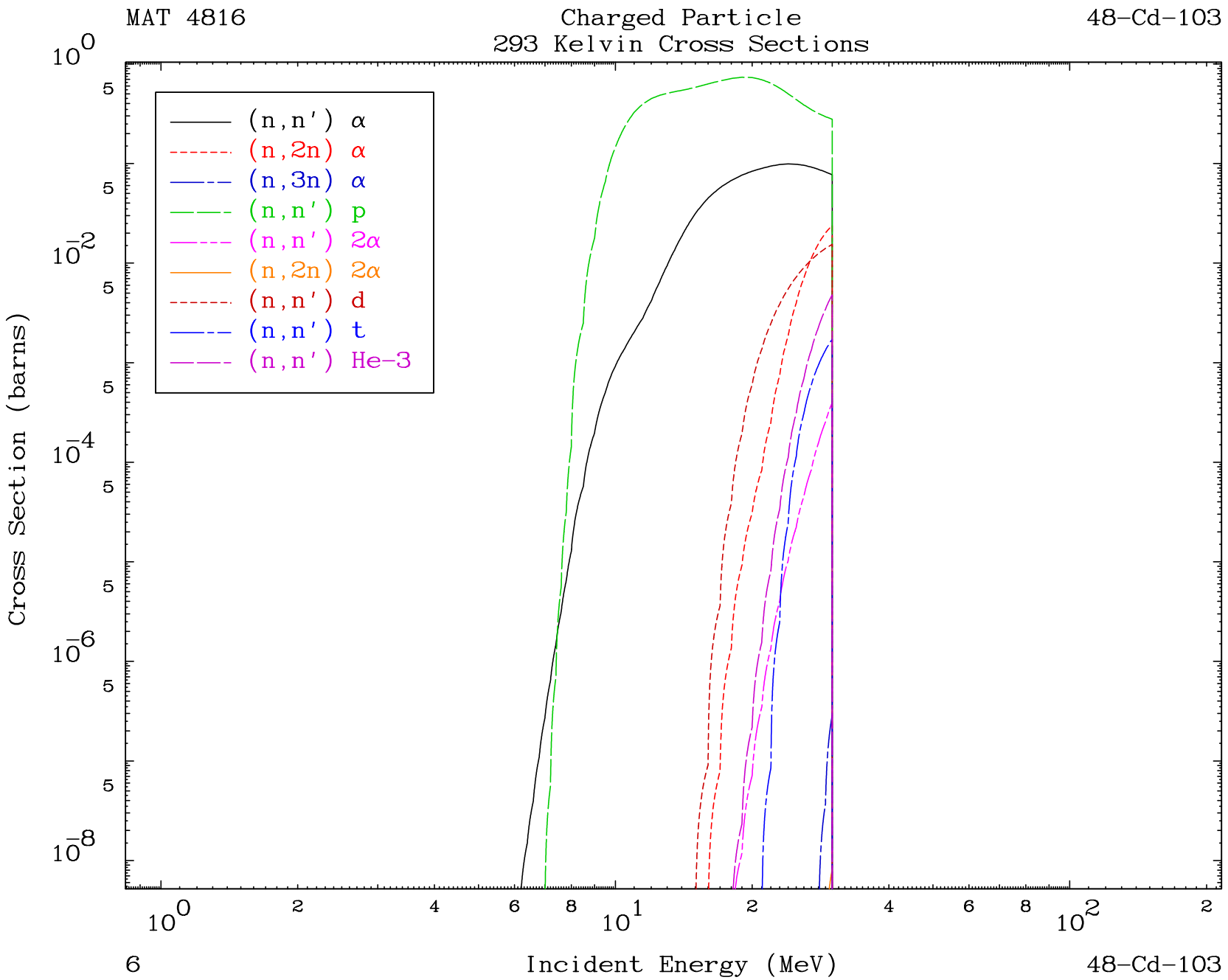

MAT 4816
Neutron Major
293 Kelvin Cross Sections
48-Cd-103
Cross Section (barns)
Incident Energy (MeV)
Total
Elastic
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)
1
48-Cd-103

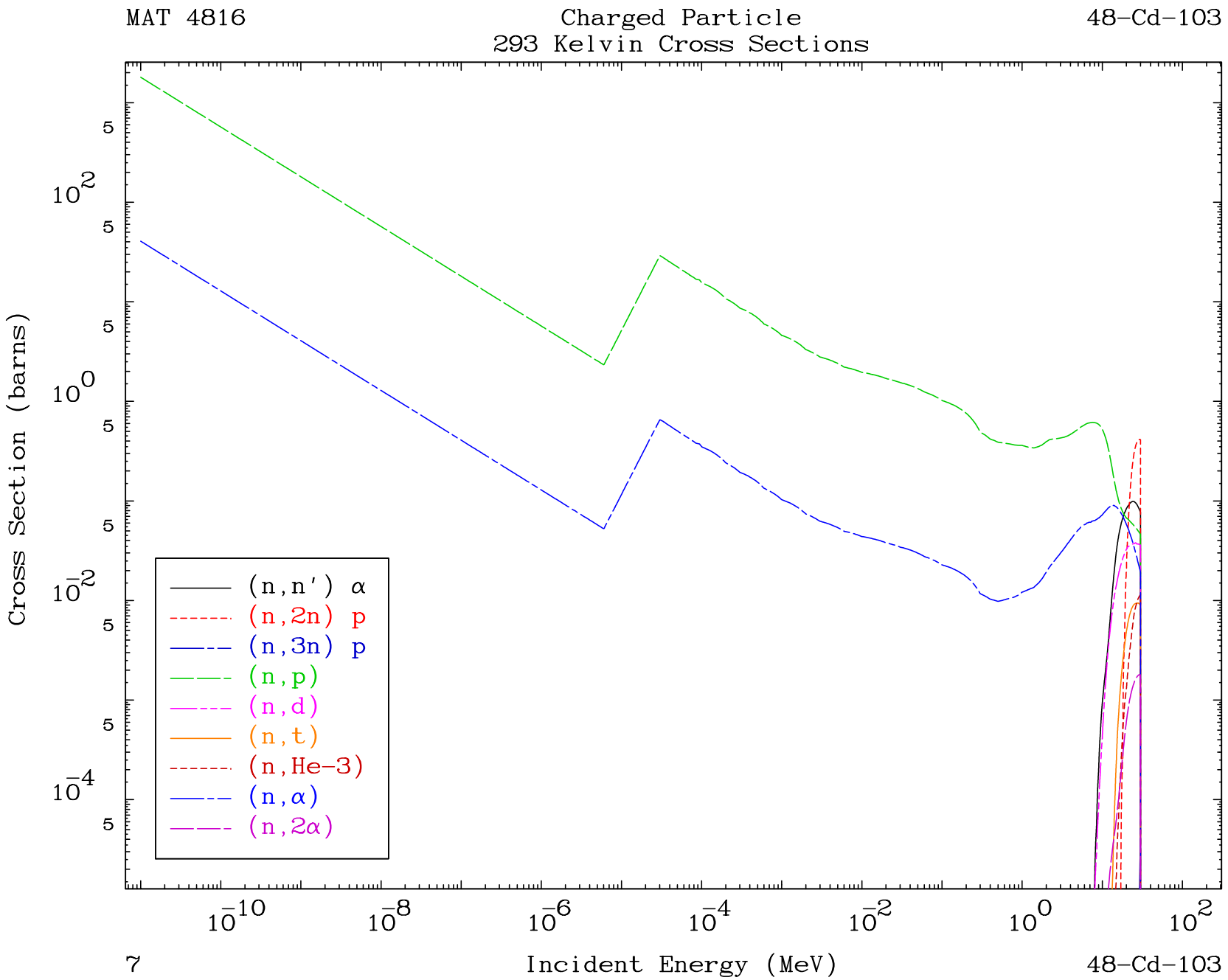

MAT 4816
Neutron Absorption
293 Kelvin Cross Sections
48-Cd-103
(n,2n) d
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,2n) 2α
Cross Section (barns)
Incident Energy (MeV)
48-Cd-103

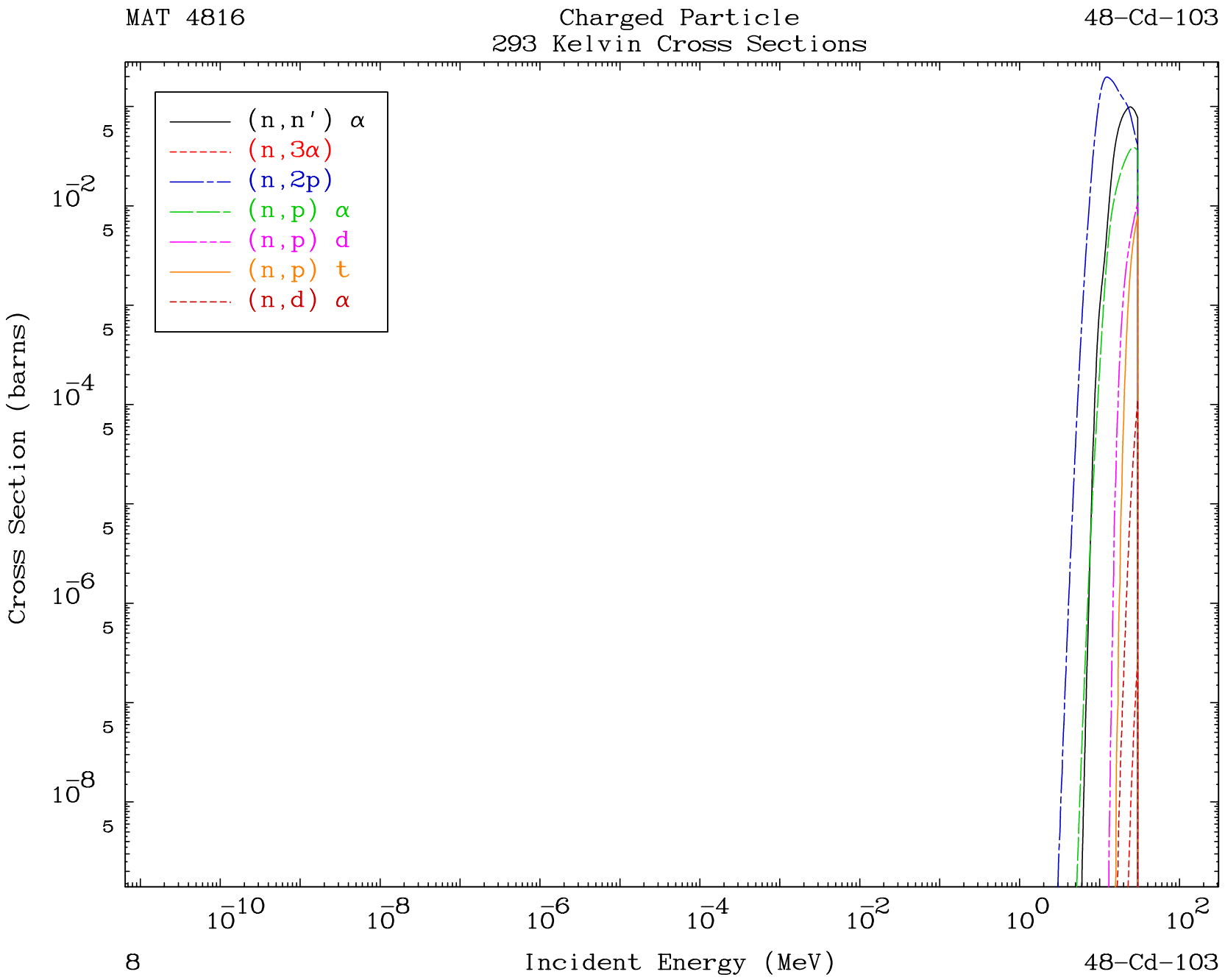

MAT 4816
Neutron Absorption
293 Kelvin Cross Sections
48-Cd-103
Cross Section (barns)
Incident Energy (MeV)
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
(n,3n) p
(n,2n) p
(n,n') p α
(n,γ)
(n,p)
3
48-Cd-103

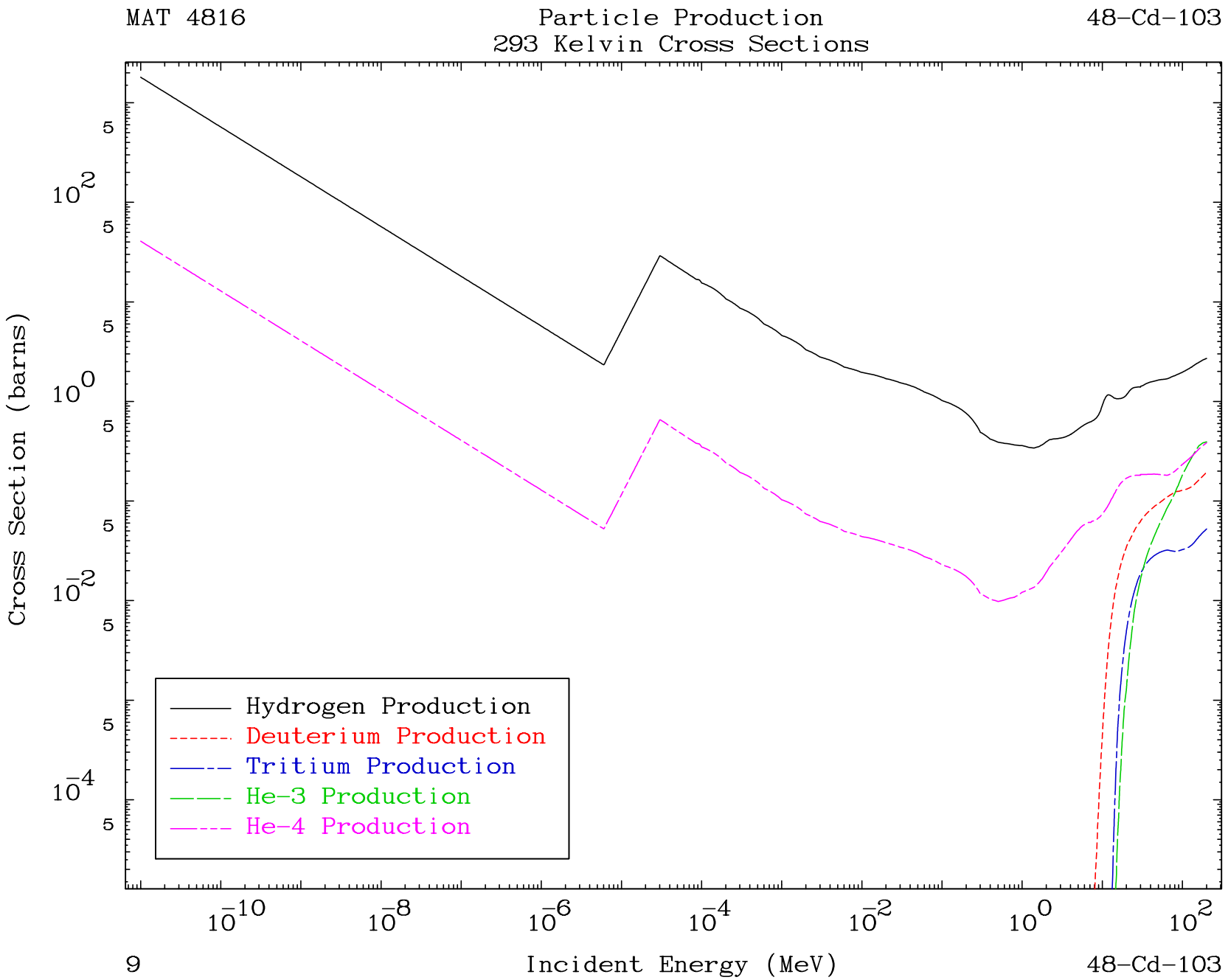

MAT 4816
Neutron Absorption
293 Kelvin Cross Sections
48-Cd-103
Cross Section (barns)
Incident Energy (MeV)
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,3α)
(n,2p)
(n,p) α
4
48-Cd-103

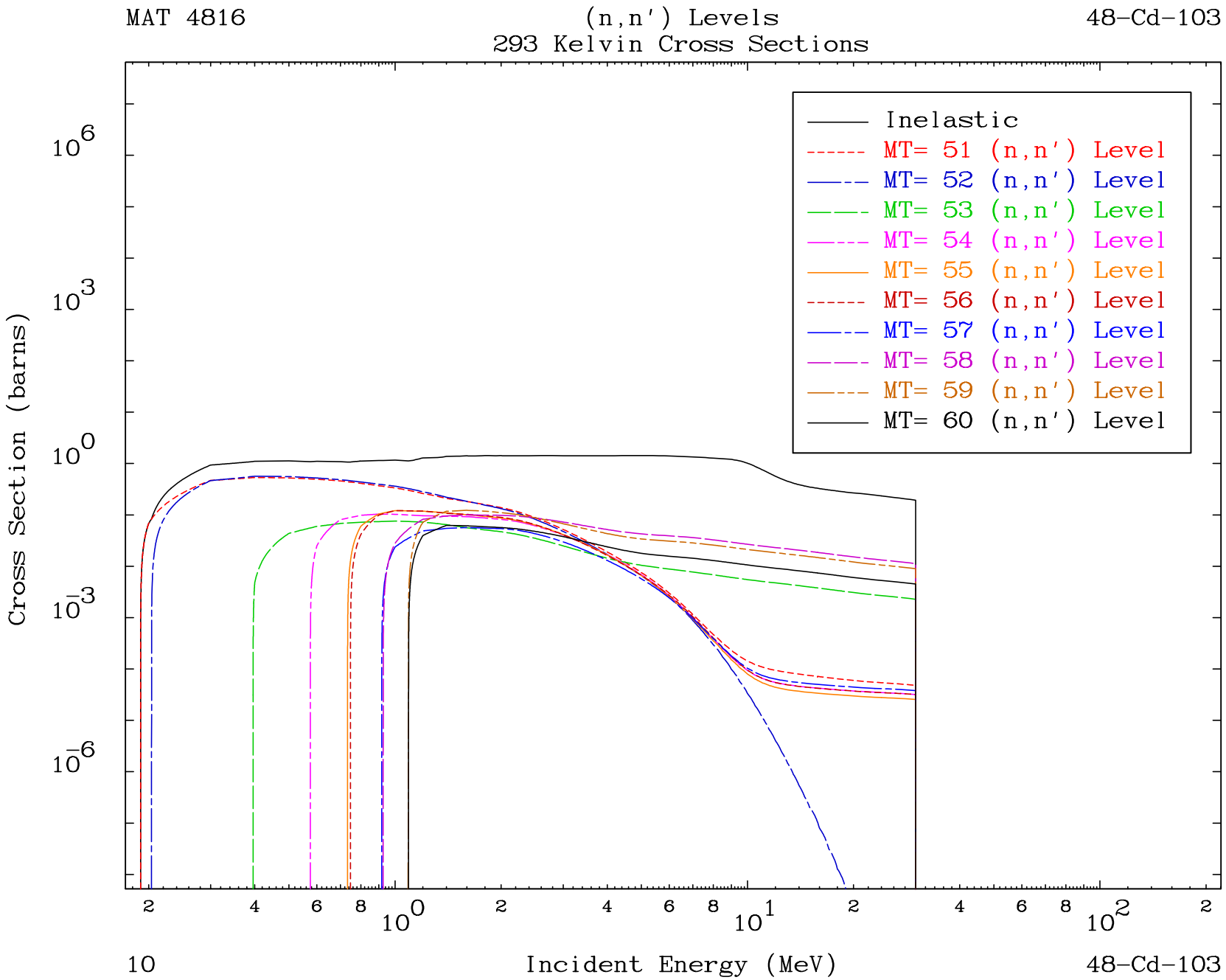

MAT 4816
Neutron Absorption
293 Kelvin Cross Sections
48-Cd-103
Cross Section (barns)
Incident Energy (MeV)
48-Cd-103
5
(n,p) t
(n,d) α
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production

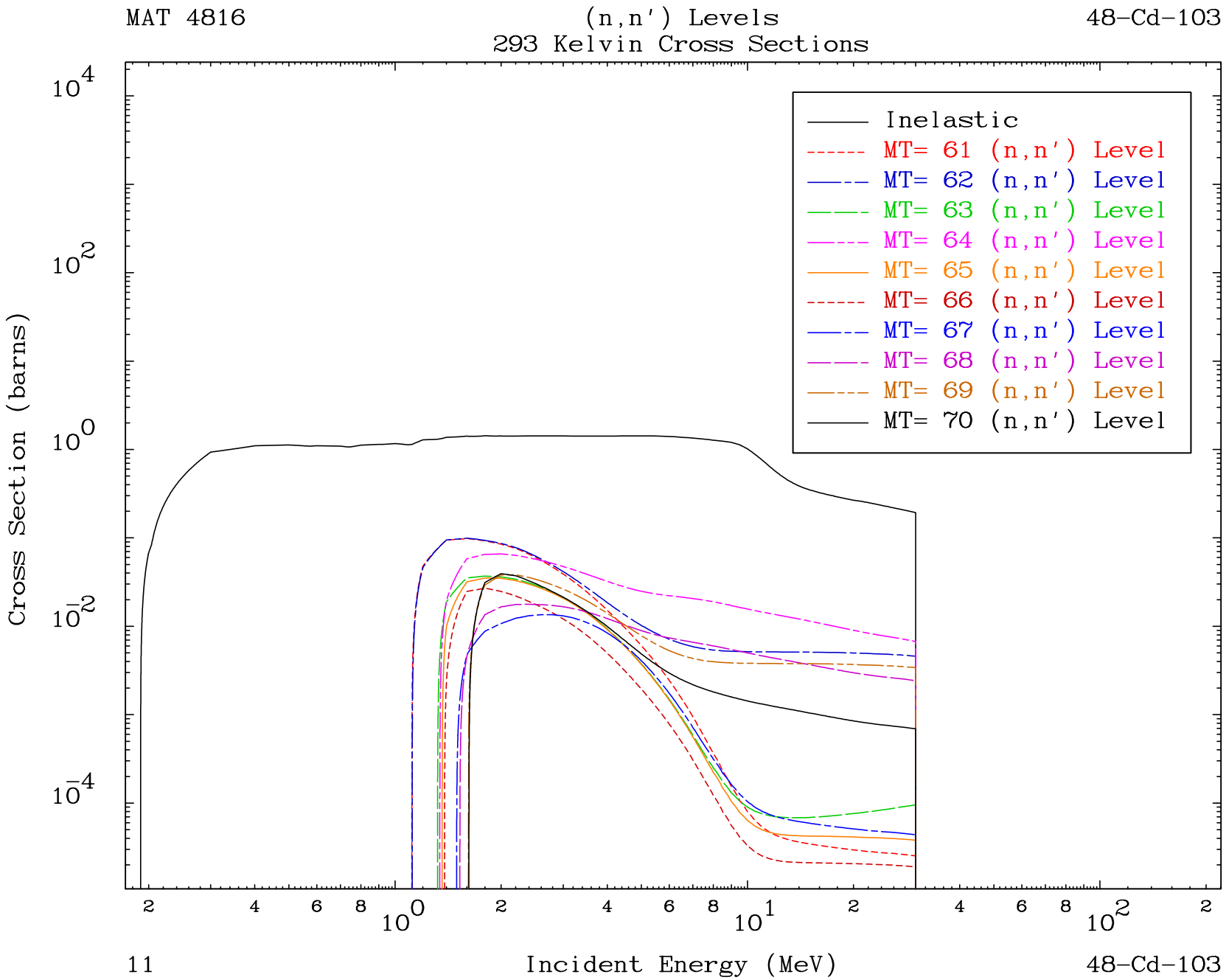

MAT 4816
Charged Particle
48-Cd-103
293 Kelvin Cross Sections
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,2n) 2α
(n,n') d
(n,n') t
(n,n') He-3
Cross Section (barns)
Incident Energy (MeV)
48-Cd-103
6

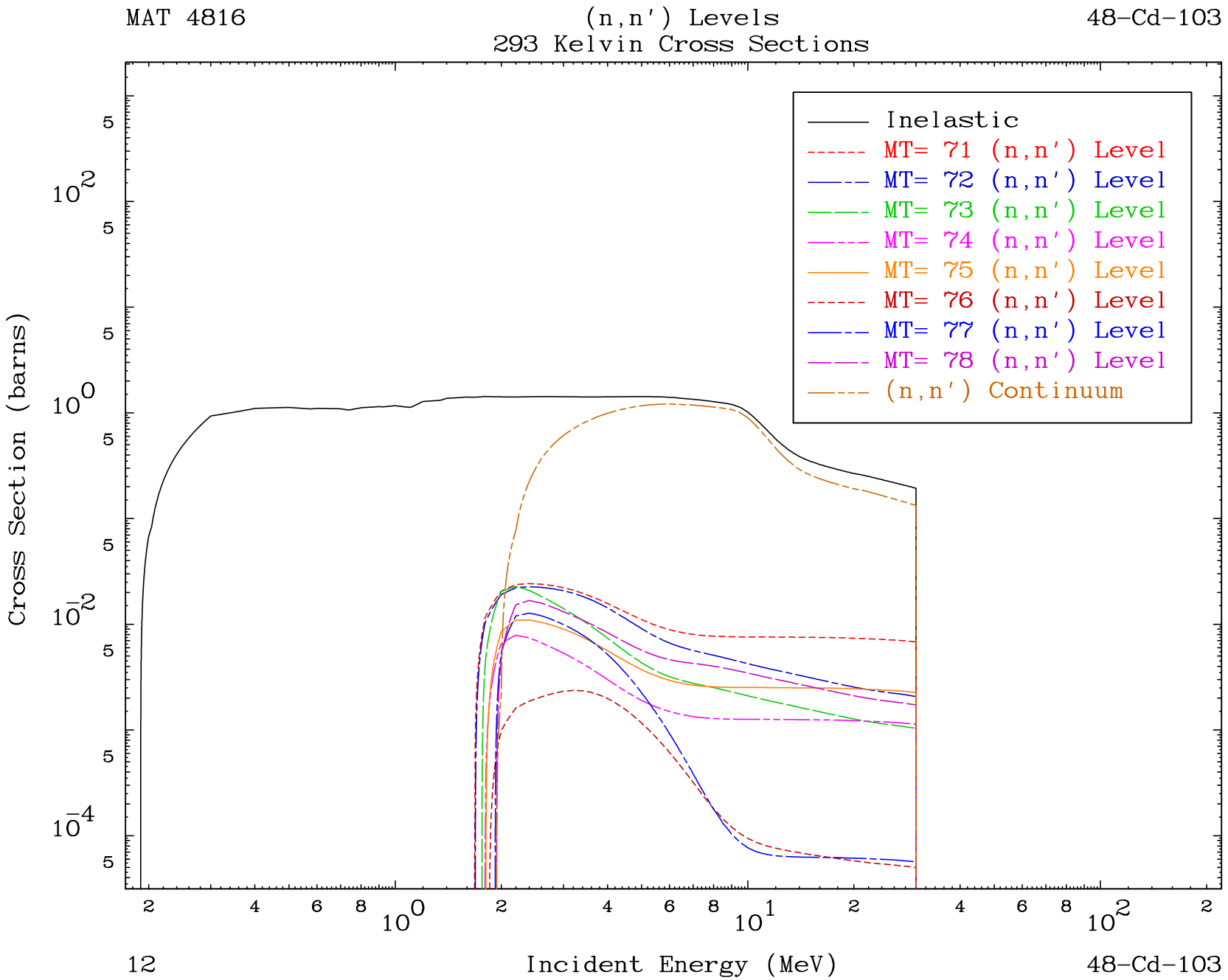

MAT 4816
Charged Particle
293 Kelvin Cross Sections
48-Cd-103
Cross Section (barns)
Incident Energy (MeV)
(n,n') α
(n,2n) p
(n,3n) p
(n,p)
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
7
48-Cd-103

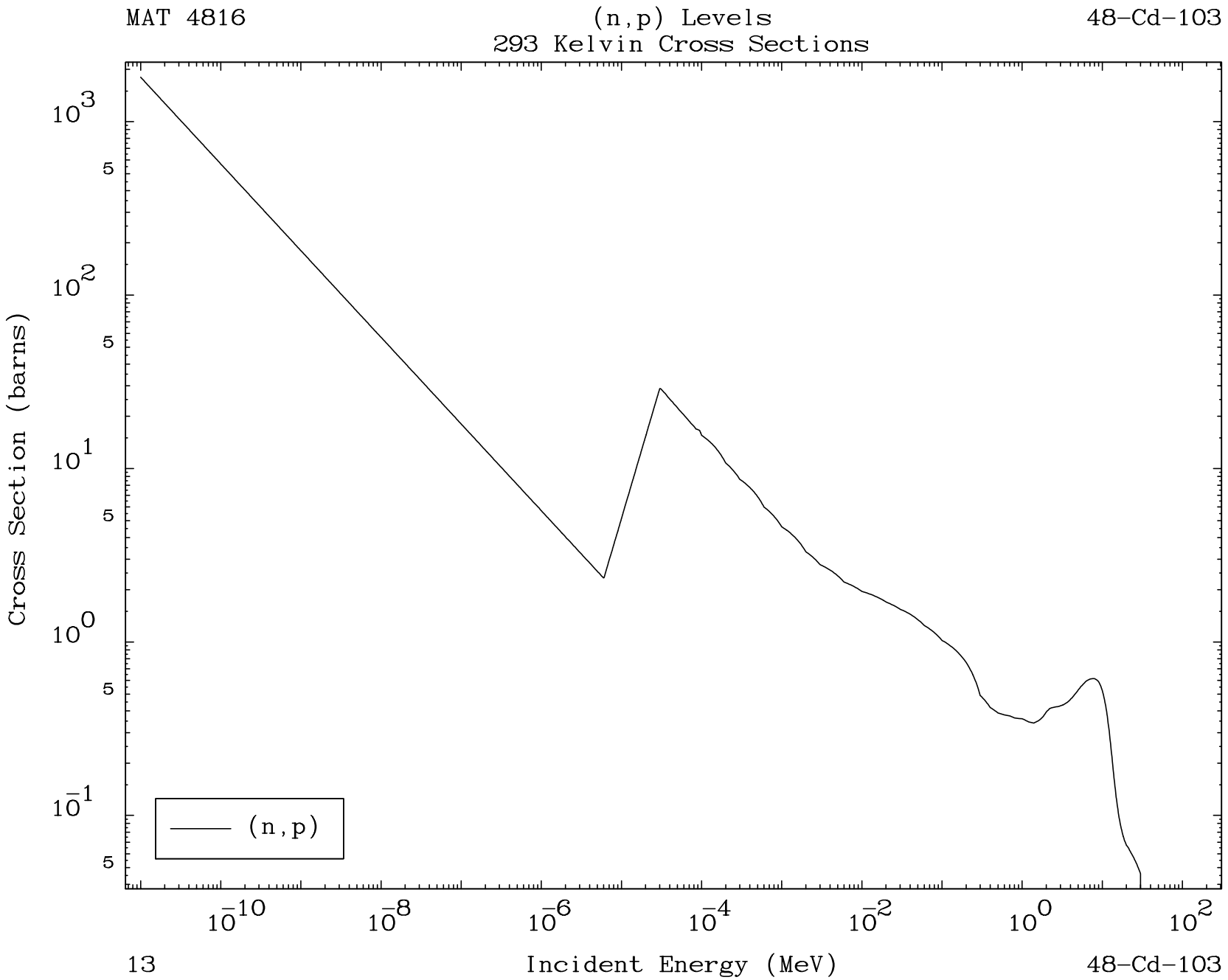

MAT 4816
Charged Particle
293 Kelvin Cross Sections
48-Cd-103
(n,n') α
(n,3α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
48-Cd-103
8

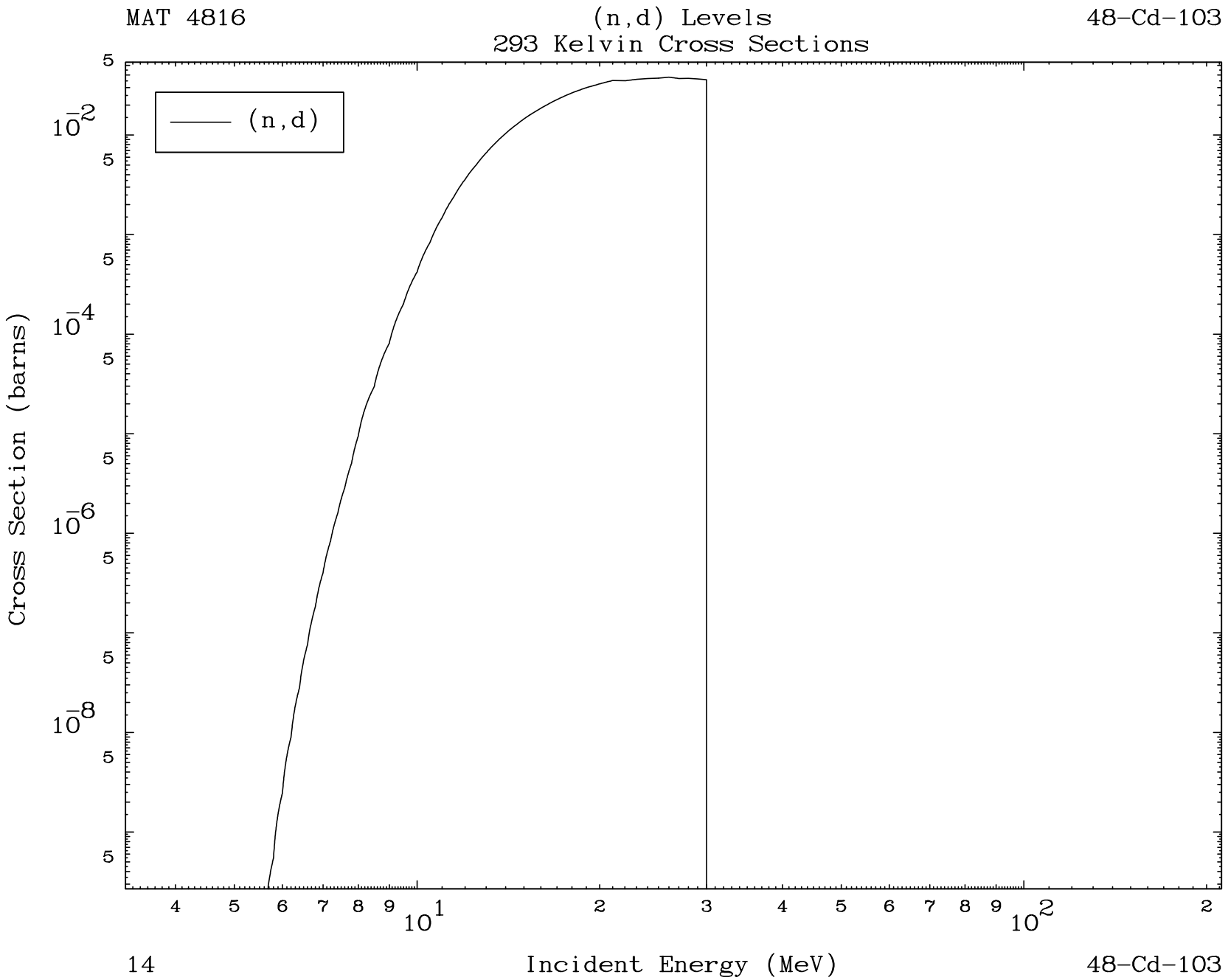

MAT 4816
Particle Production
293 Kelvin Cross Sections
48-Cd-103
Cross Section (barns)
10^2
10^0
10^-2
10^-4
5
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
Incident Energy (MeV)
9
48-Cd-103

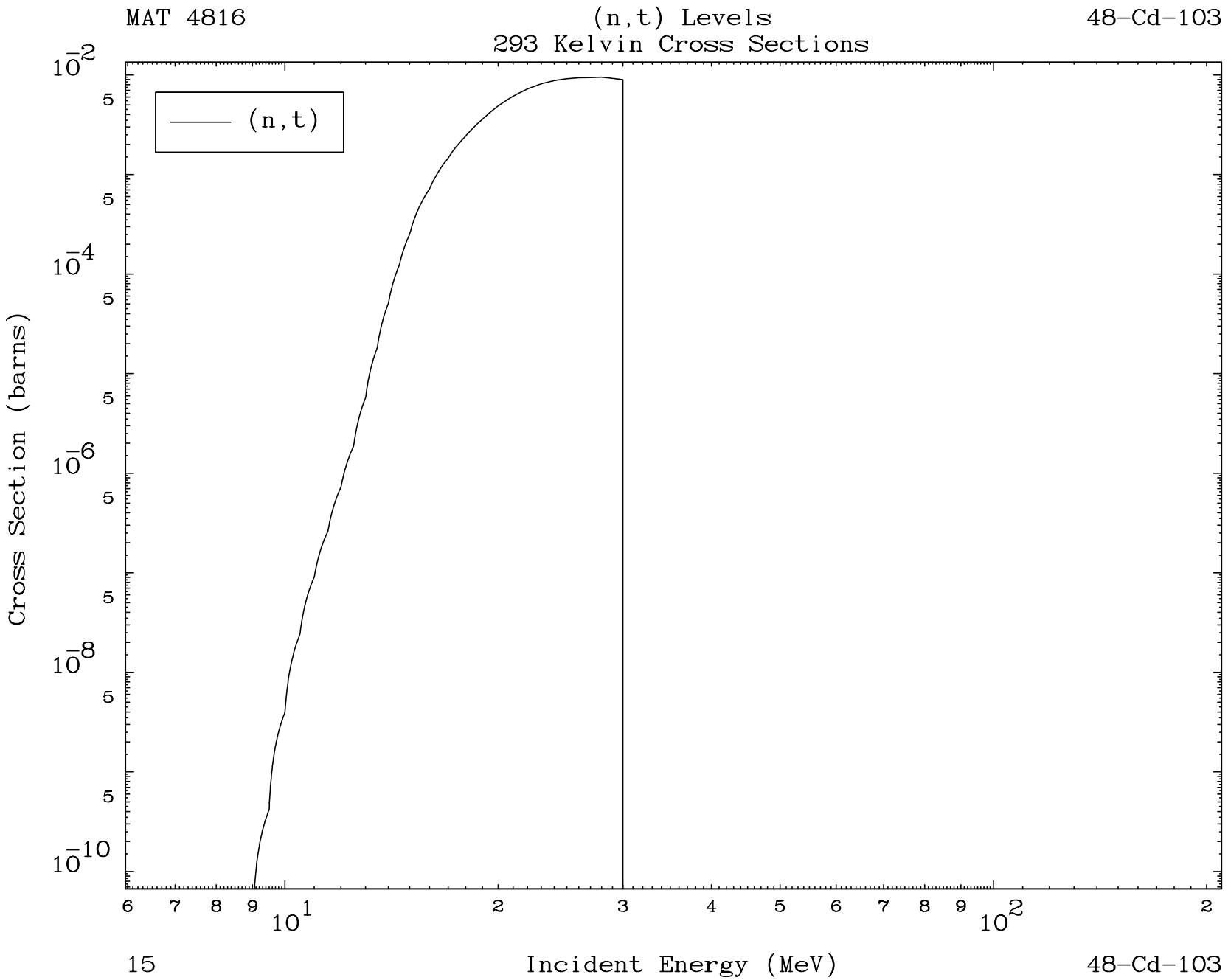

MAT 4816
(n,n') Levels
293 Kelvin Cross Sections
48-Cd-103
Inelastic
MT= 51 (n,n') Level
MT= 52 (n,n') Level
MT= 53 (n,n') Level
MT= 54 (n,n') Level
MT= 55 (n,n') Level
MT= 56 (n,n') Level
MT= 57 (n,n') Level
MT= 58 (n,n') Level
MT= 59 (n,n') Level
MT= 60 (n,n') Level
Cross Section (barns)
Incident Energy (MeV)
48-Cd-103

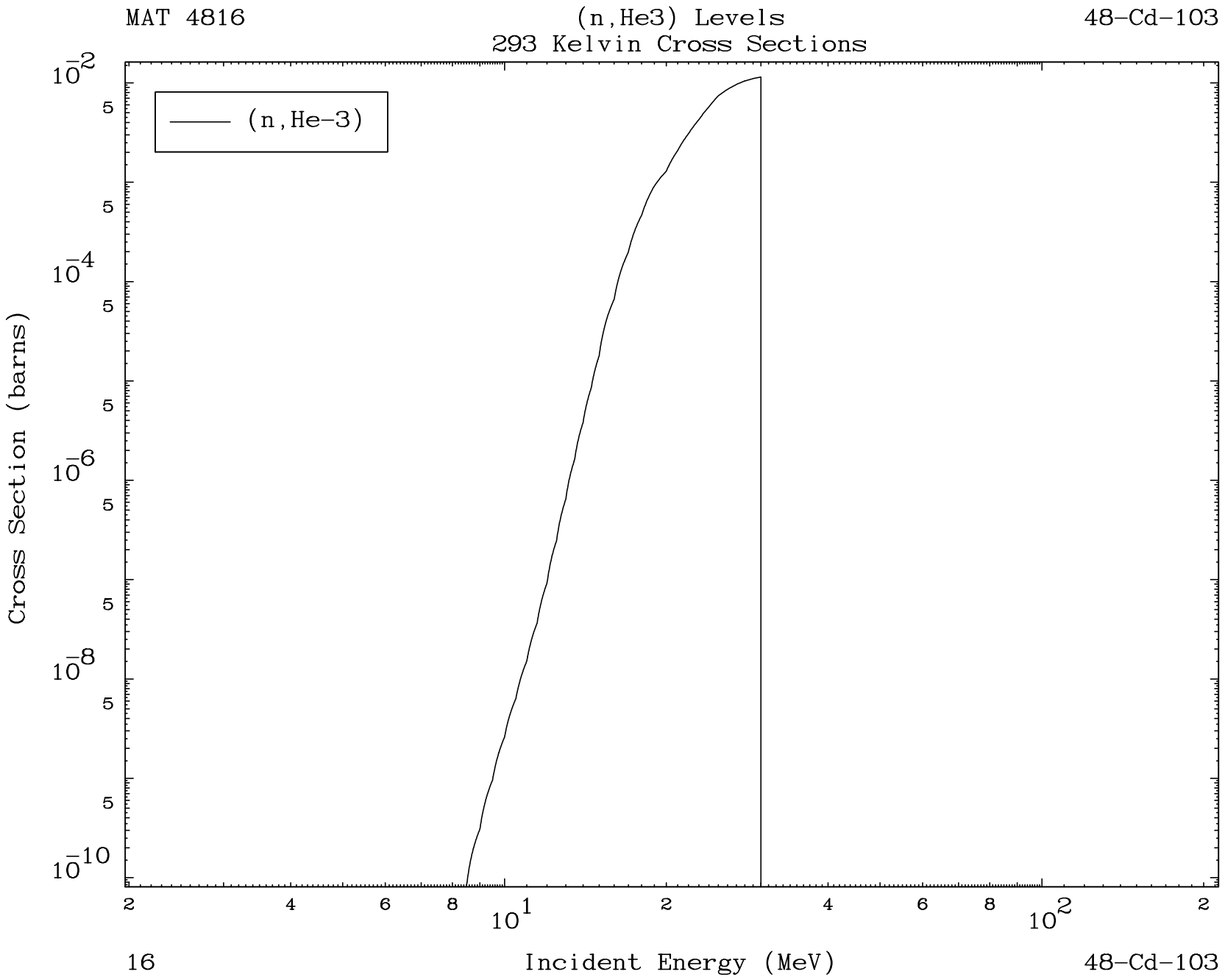

MAT 4816
(n,n') Levels
293 Kelvin Cross Sections
48-Cd-103
Cross Section (barns)
Incident Energy (MeV)
Inelastic
MT= 61 (n,n') Level
MT= 62 (n,n') Level
MT= 63 (n,n') Level
MT= 64 (n,n') Level
MT= 65 (n,n') Level
MT= 66 (n,n') Level
MT= 67 (n,n') Level
MT= 68 (n,n') Level
MT= 69 (n,n') Level
MT= 70 (n,n') Level
11
48-Cd-103

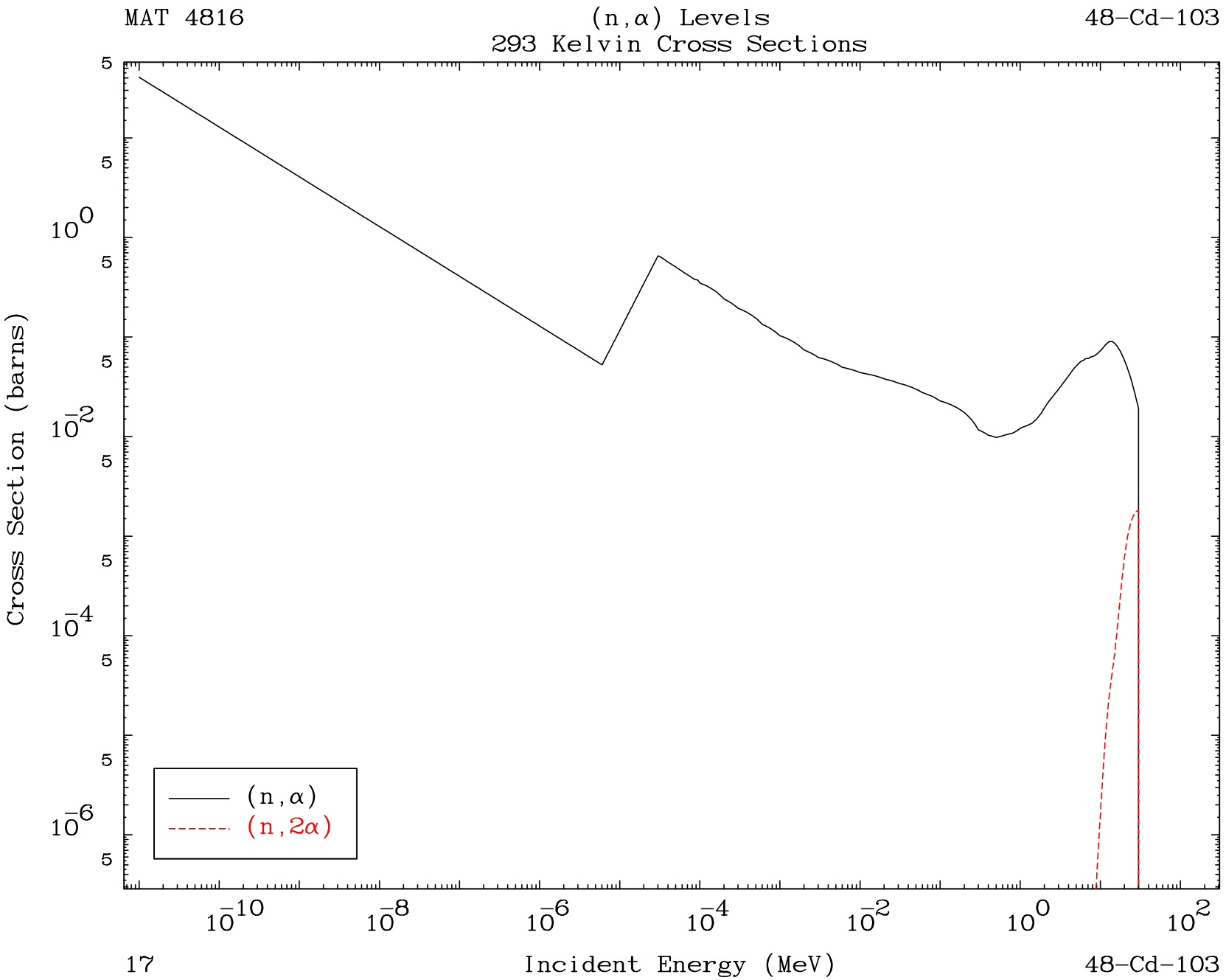

MAT 4816
(n,n') Levels
293 Kelvin Cross Sections
48-Cd-103
Inelastic
MT= 71 (n,n') Level
MT= 72 (n,n') Level
MT= 73 (n,n') Level
MT= 74 (n,n') Level
MT= 75 (n,n') Level
MT= 76 (n,n') Level
MT= 77 (n,n') Level
MT= 78 (n,n') Level
(n,n') Continuum
Cross Section (barns)
Incident Energy (MeV)
12
48-Cd-103

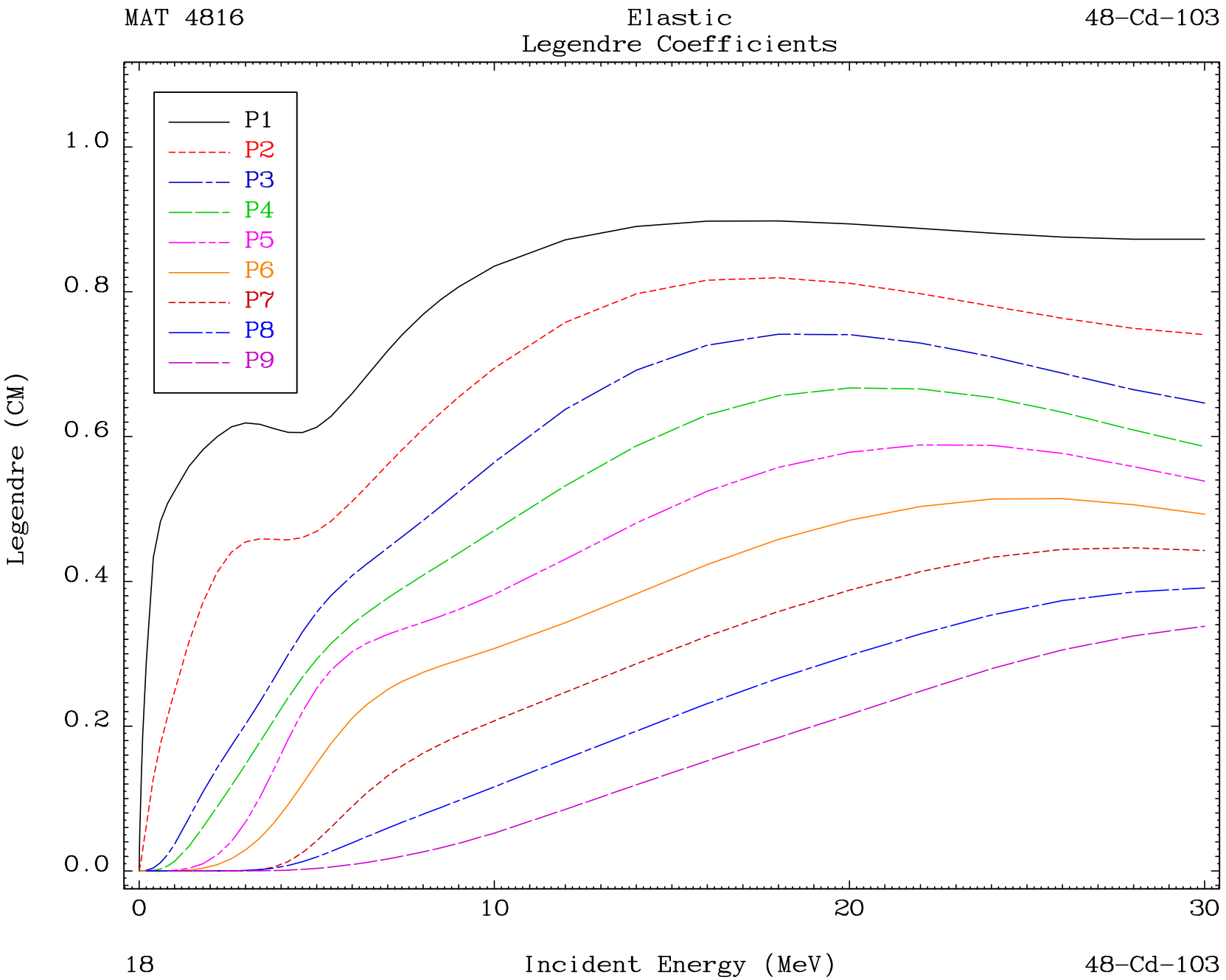

MAT 4816
(n,p) Levels
48-Cd-103
293 Kelvin Cross Sections
Cross Section (barns)
10^3
5
10^2
5
10^1
5
10^0
5
10^-1
5
(n,p)
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
13
Incident Energy (MeV)
48-Cd-103

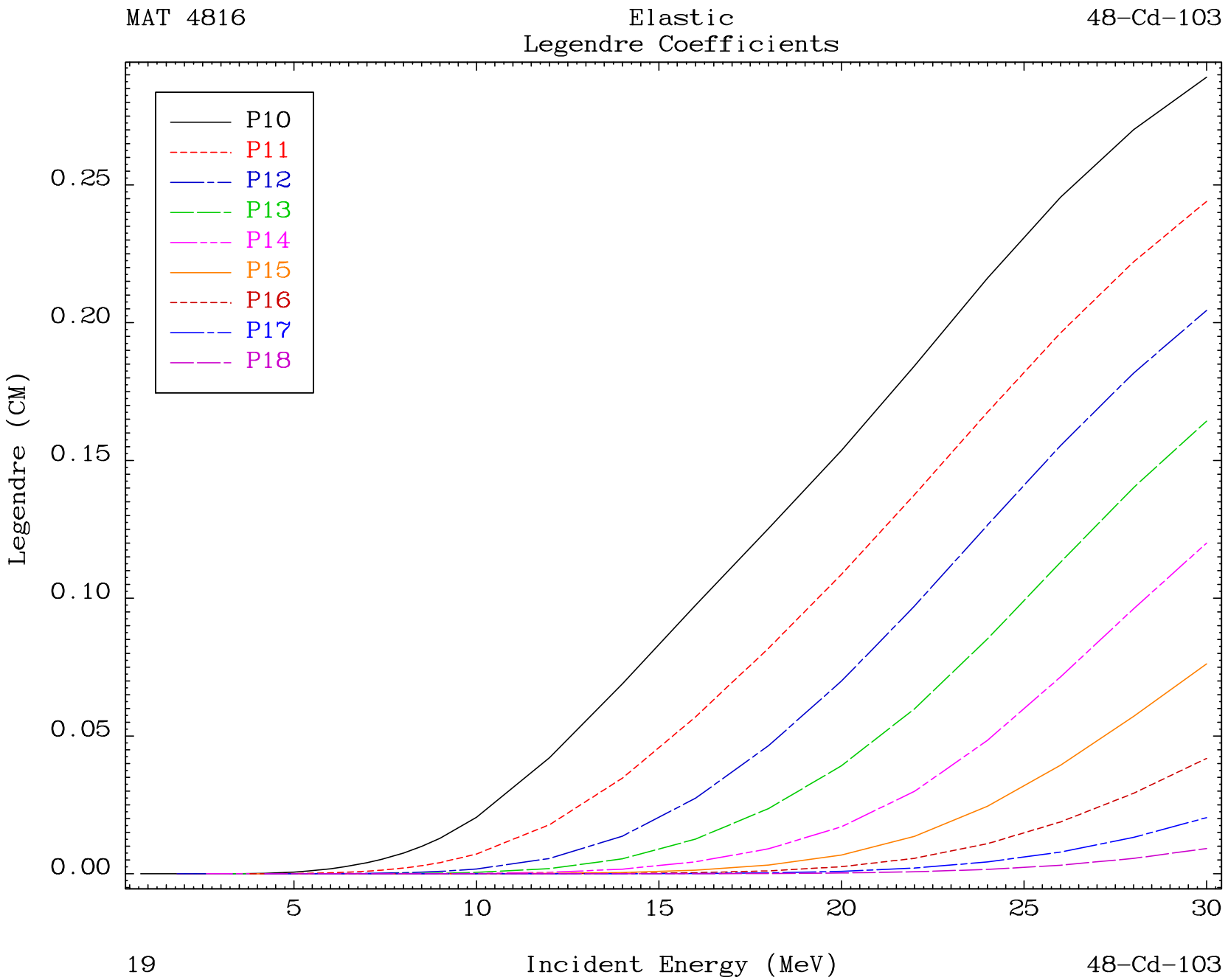

MAT 4816
(n,d) Levels
48-Cd-103
293 Kelvin Cross Sections
(n,d)
Cross Section (barns)
Incident Energy (MeV)
14
48-Cd-103

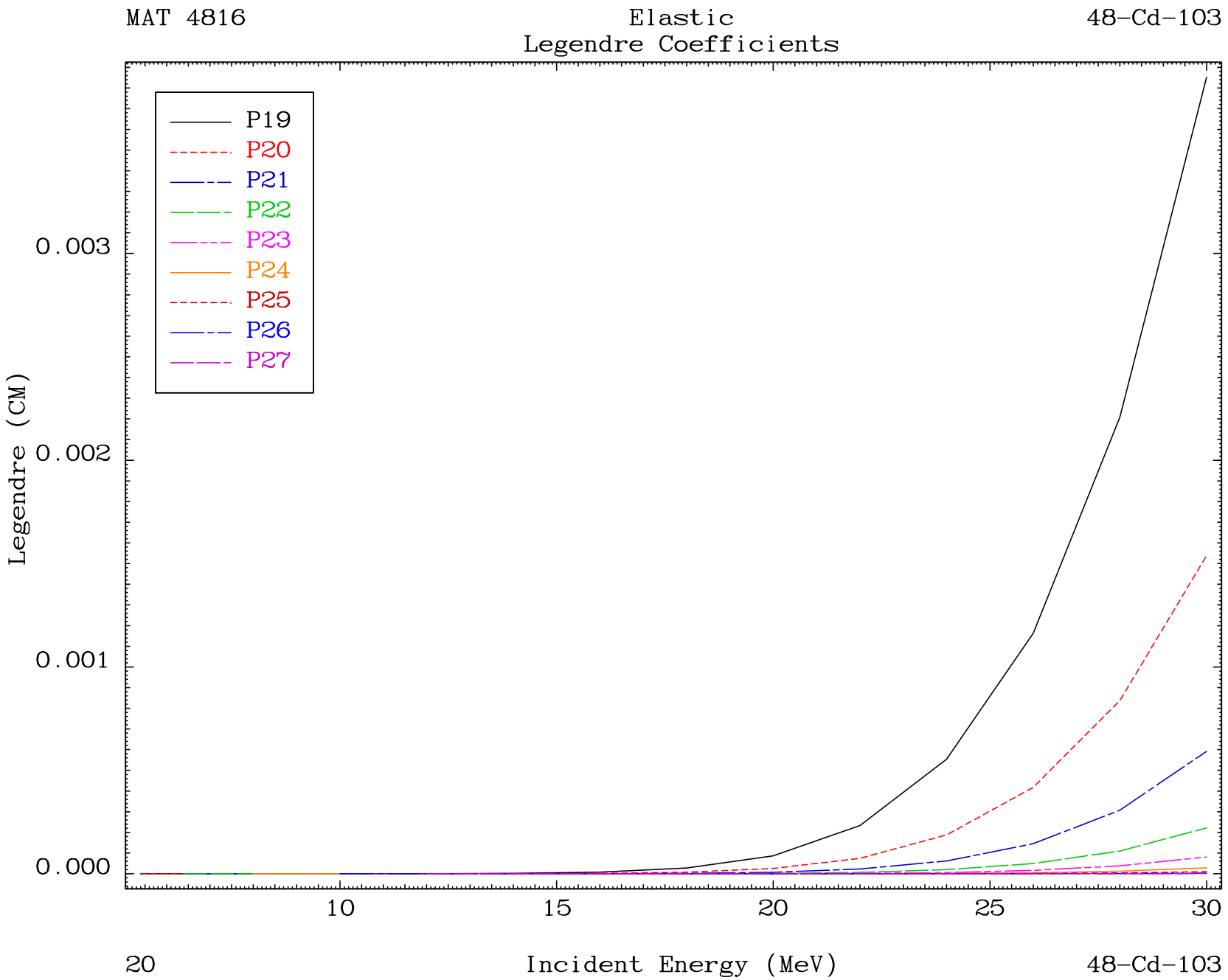

MAT 4816
(n,t) Levels
48-Cd-103
293 Kelvin Cross Sections
(n,t)
Cross Section (barns)
Incident Energy (MeV)
15
48-Cd-103

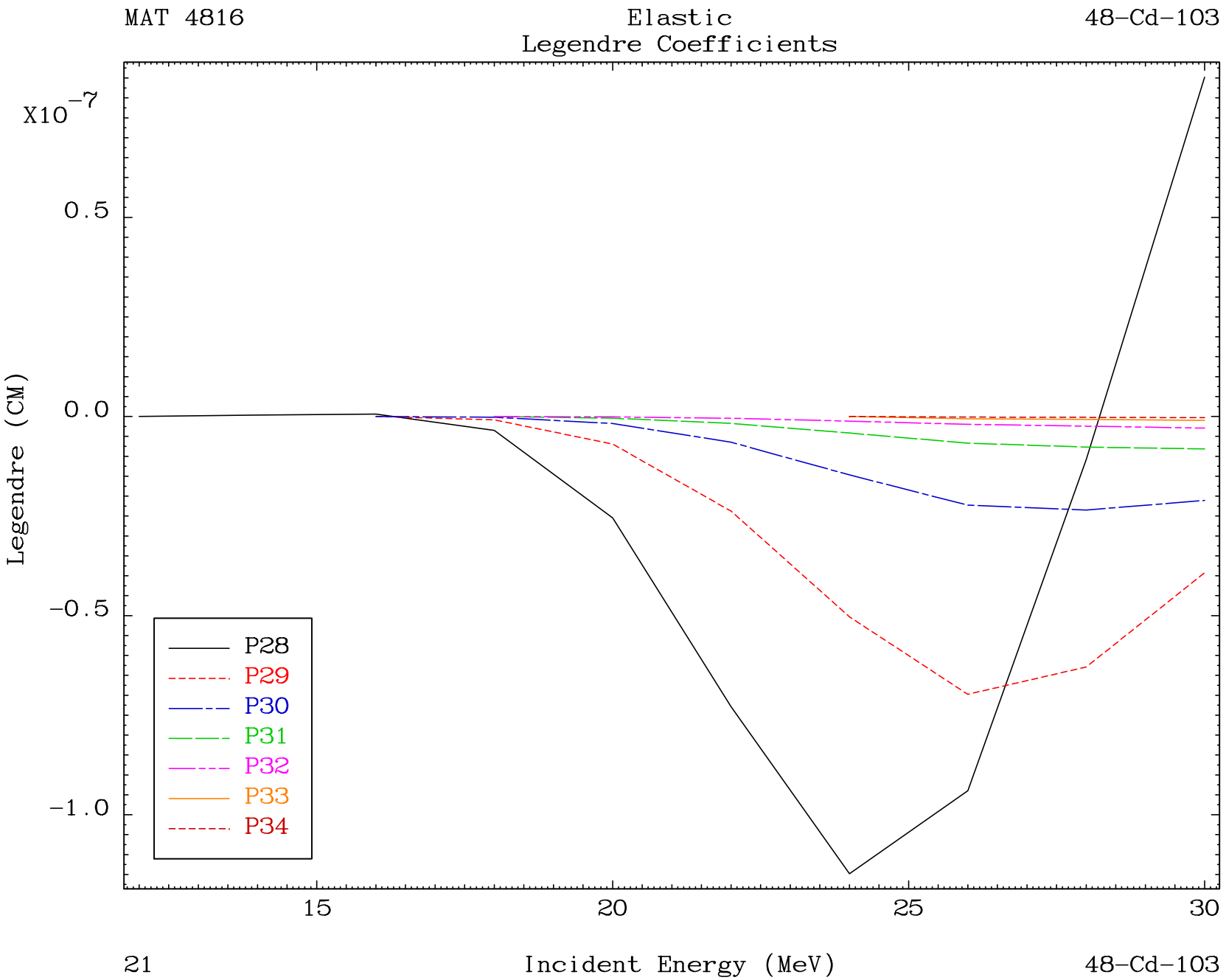

MAT 4816
(n,He3) Levels
48-Cd-103
293 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
Incident Energy (MeV)
16
48-Cd-103

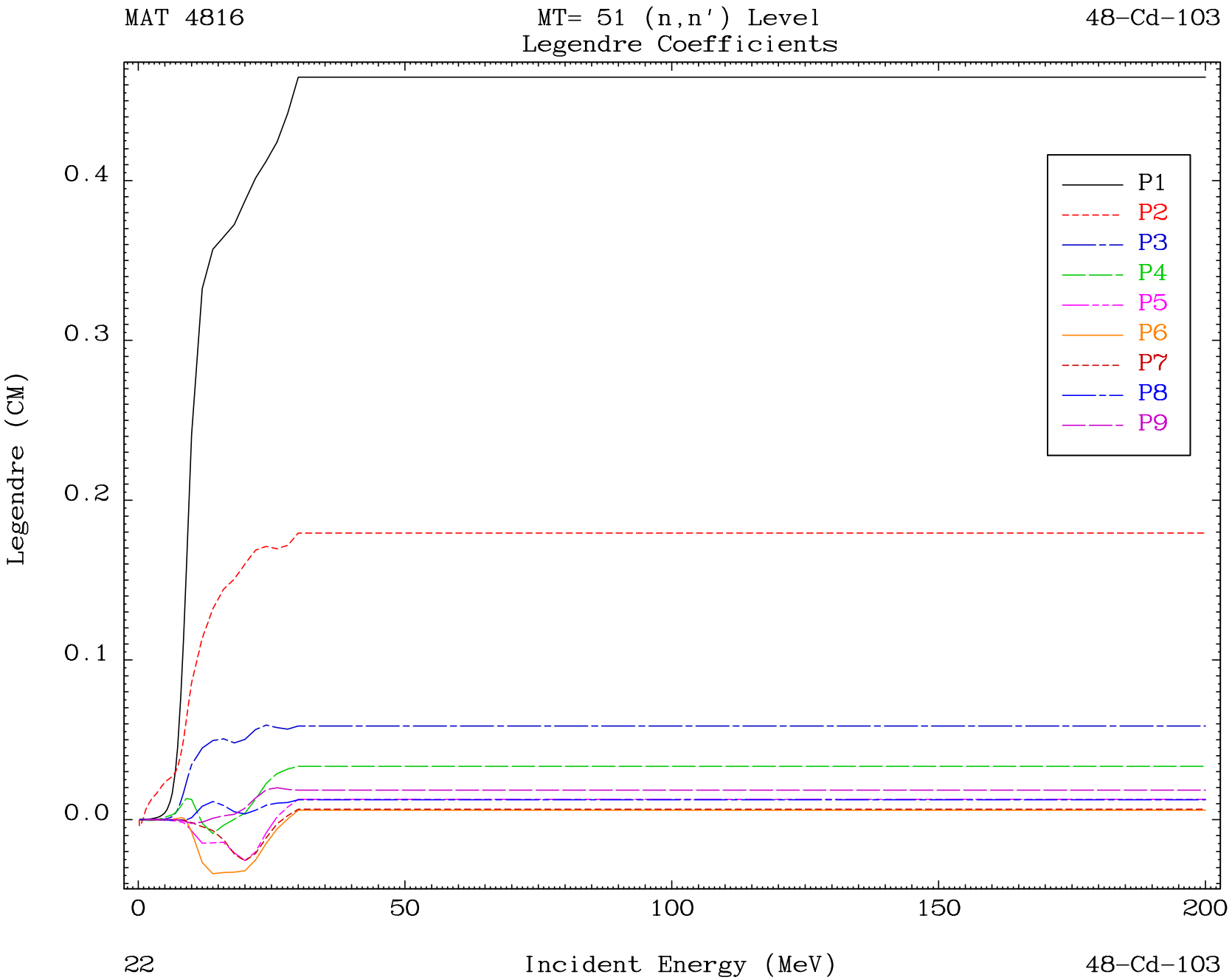

MAT 4816
(n,α) Levels
48-Cd-103
293 Kelvin Cross Sections
Cross Section (barns)
10^0
10^-2
10^-4
10^-6
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
(n,α)
(n,2α)
17
Incident Energy (MeV)
48-Cd-103

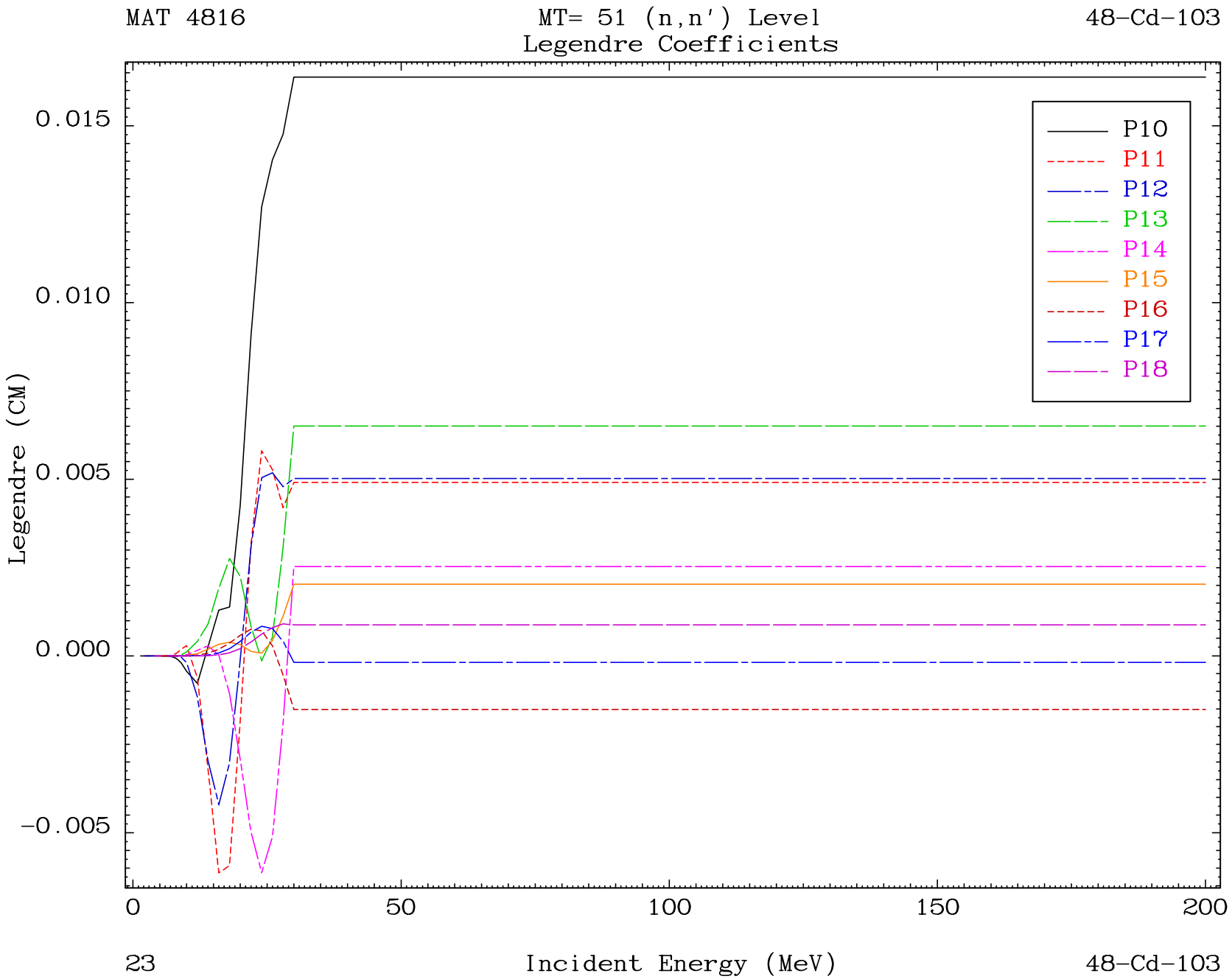

MAT 4816
Elastic
Legendre Coefficients
48-Cd-103
P1
P2
P3
P4
P5
P6
P7
P8
P9
Legendre (CM)
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
18
Incident Energy (MeV)
48-Cd-103

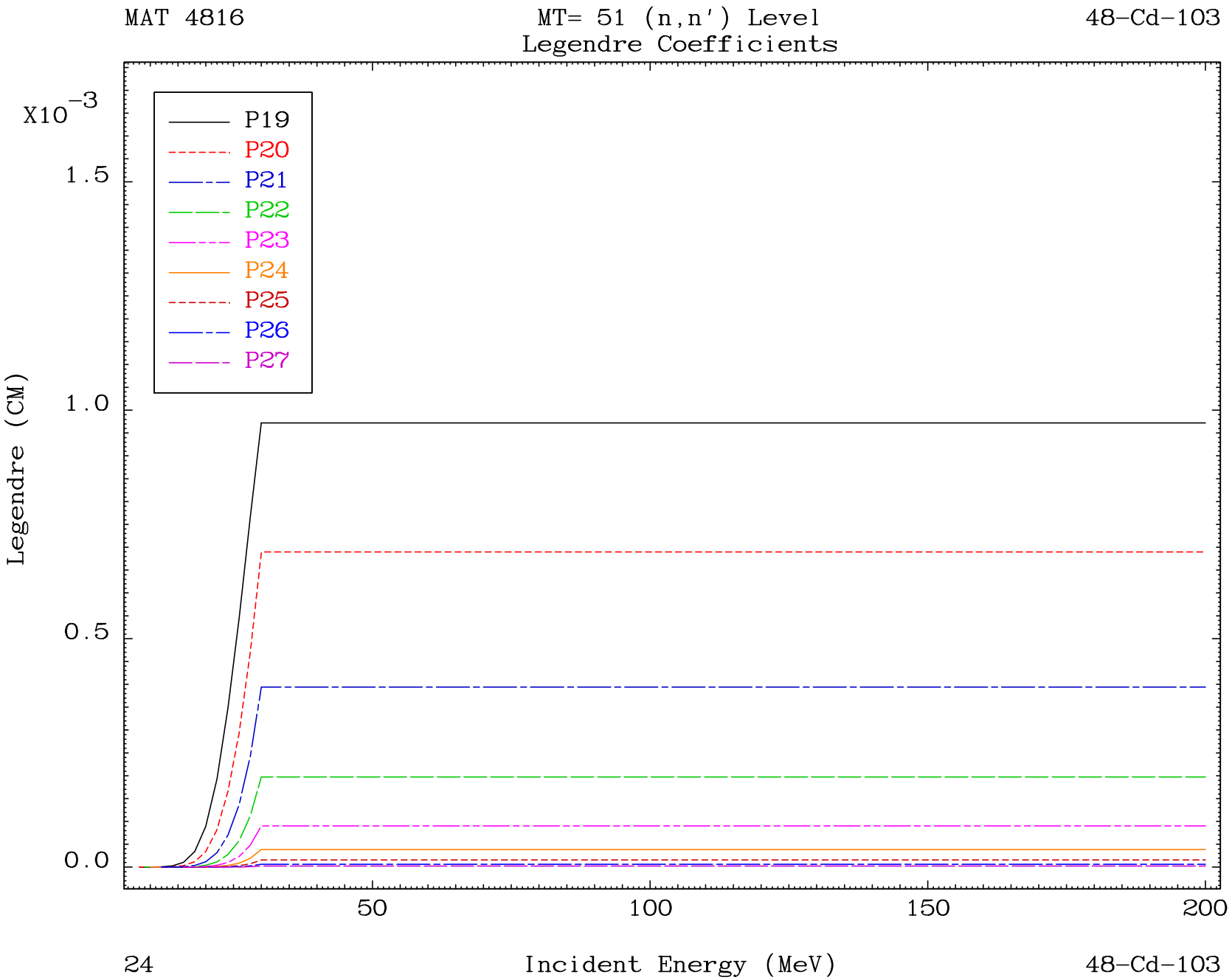

MAT 4816
Elastic
Legendre Coefficients
48-Cd-103
P10
P11
P12
P13
P14
P15
P16
P17
P18
Legendre (CM)
0.25
0.20
0.15
0.10
0.05
0.00
5
10
15
20
25
30
19
Incident Energy (MeV)
48-Cd-103

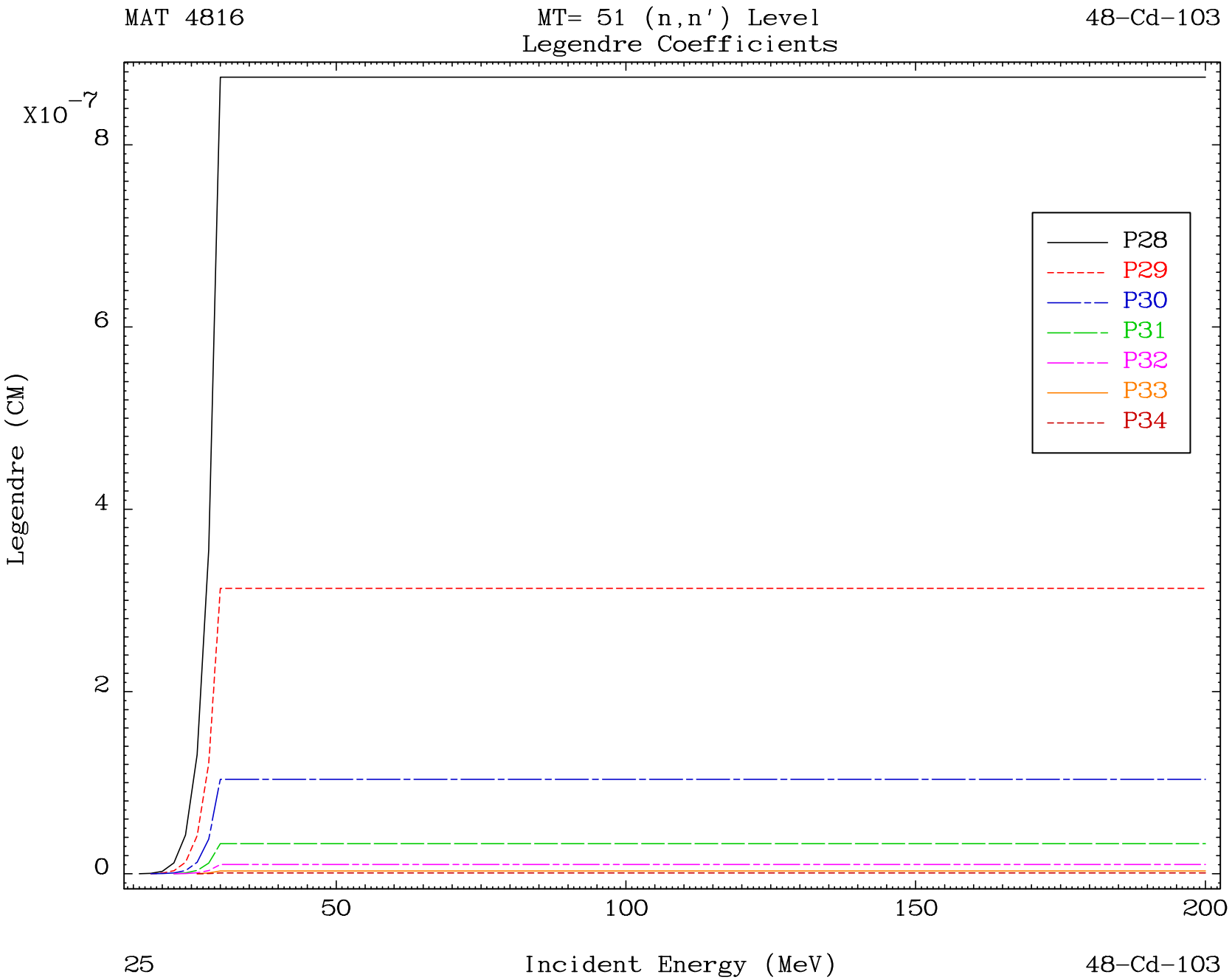

MAT 4816
Elastic
Legendre Coefficients
48-Cd-103
P19
P20
P21
P22
P23
P24
P25
P26
P27
0.003
0.002
0.001
0.000
Legendre (CM)
10
15
20
25
30
20
Incident Energy (MeV)
48-Cd-103

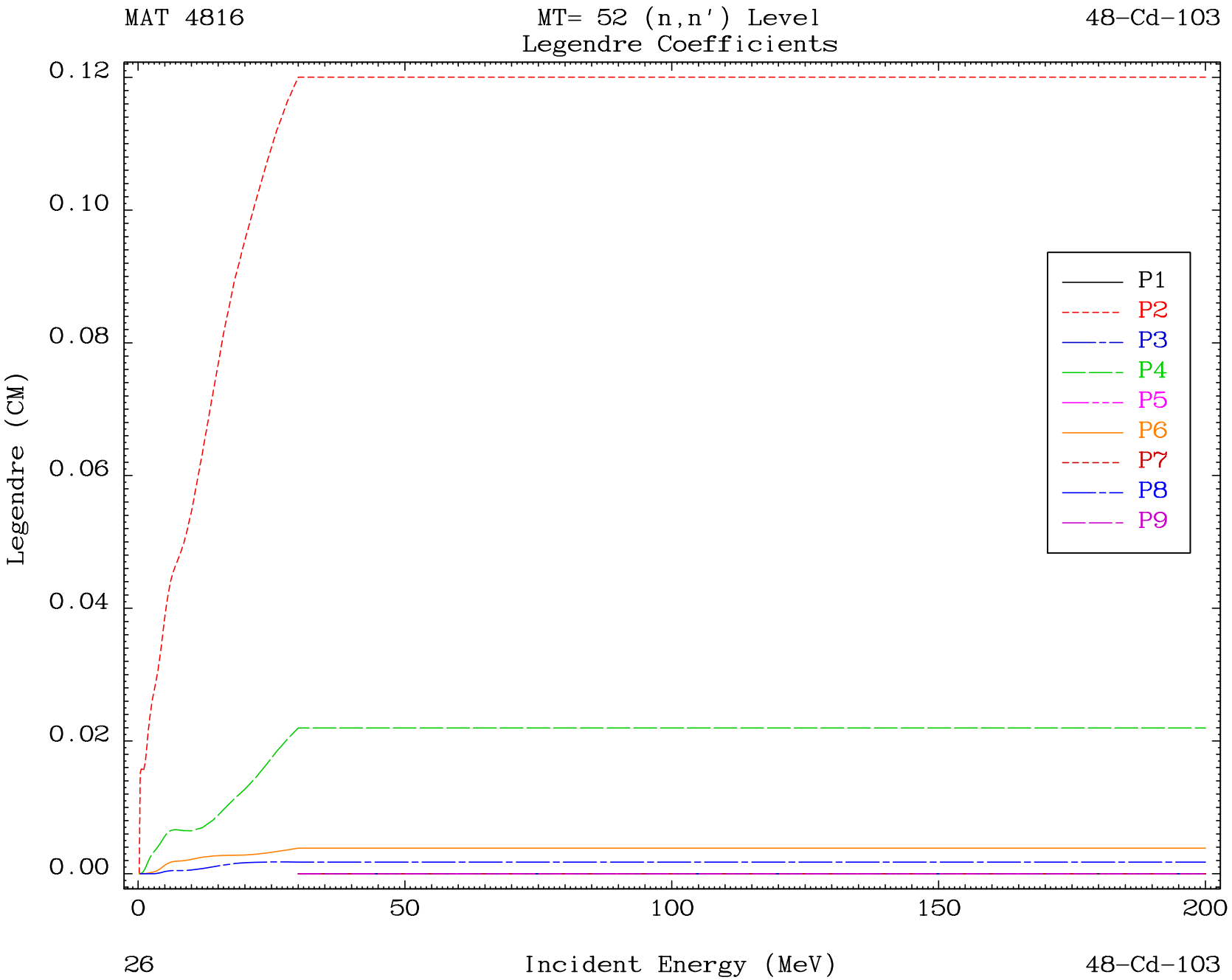

MAT 4816
Elastic
Legendre Coefficients
48-Cd-103
X10-7
0.5
0.0
-0.5
-1.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
15
20
25
30
21
Incident Energy (MeV)
48-Cd-103

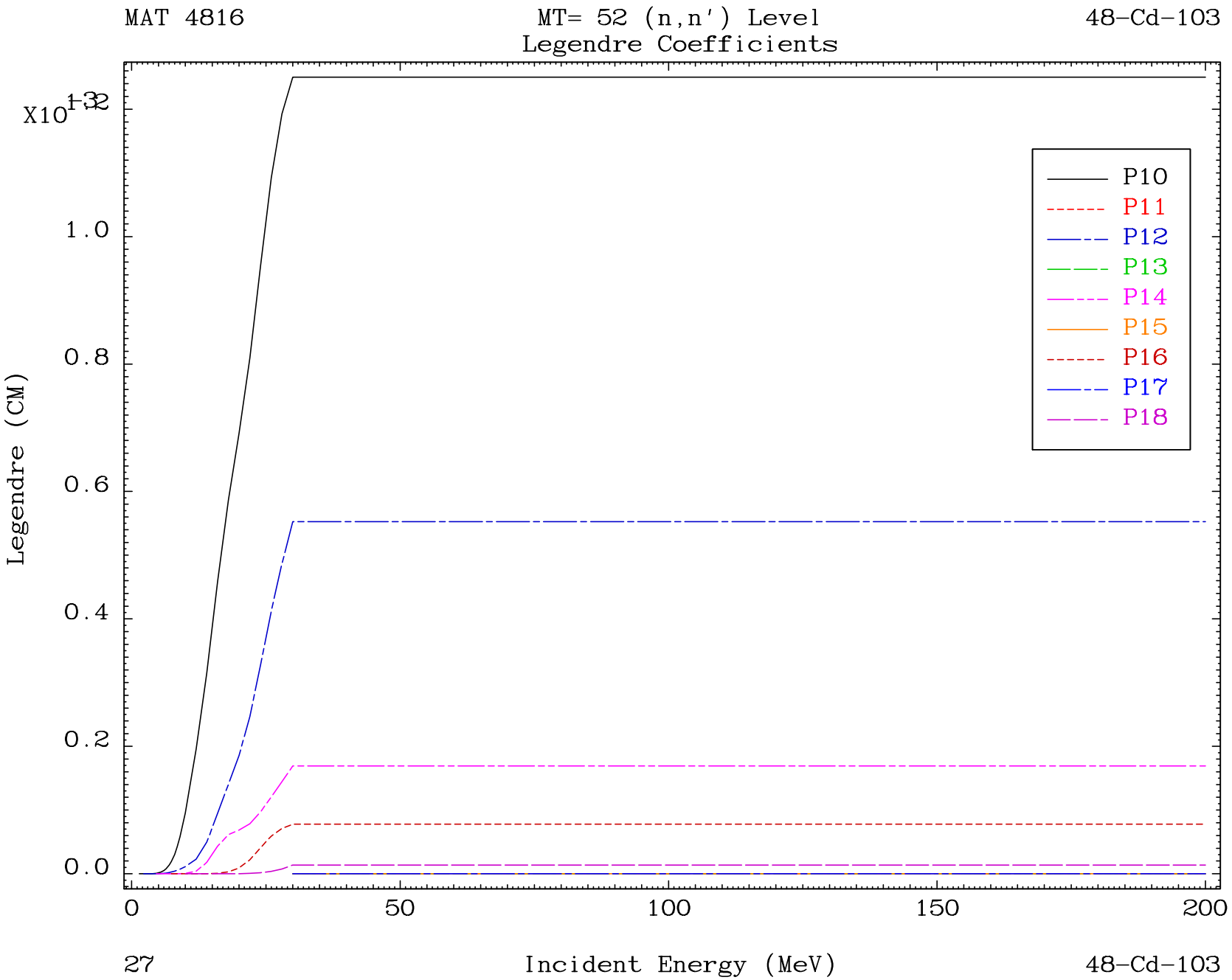

MAT 4816
MT= 51 (n,n') Level
Legendre Coefficients
48-Cd-103
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
22
Incident Energy (MeV)
48-Cd-103
P1
P2
P3
P4
P5
P6
P7
P8
P9

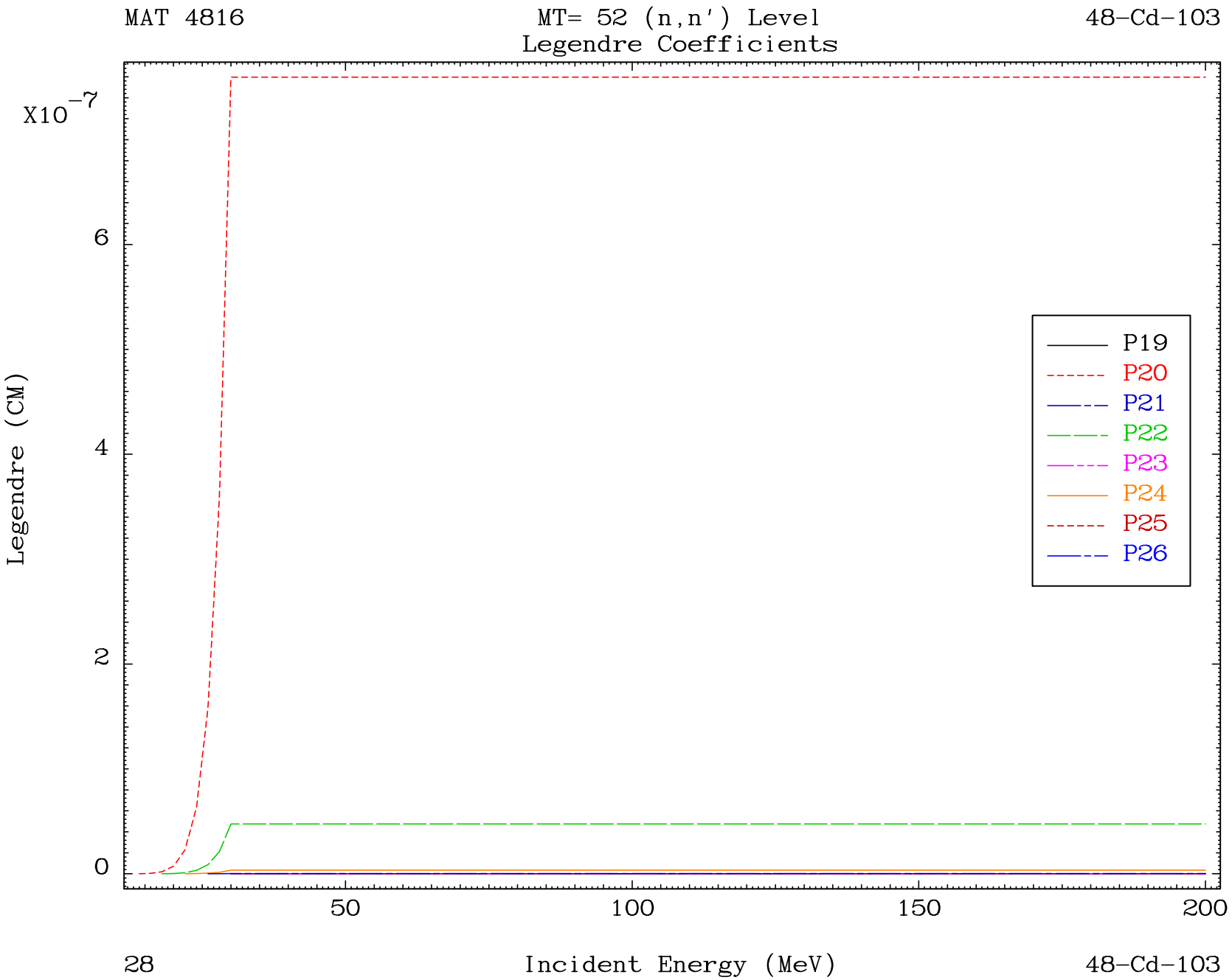

MAT 4816
MT= 51 (n,n') Level
Legendre Coefficients
48-Cd-103
0.015
0.010
0.005
0.000
-0.005
Legendre (CM)
0
50
100
150
200
23
Incident Energy (MeV)
48-Cd-103
P10
P11
P12
P13
P14
P15
P16
P17
P18

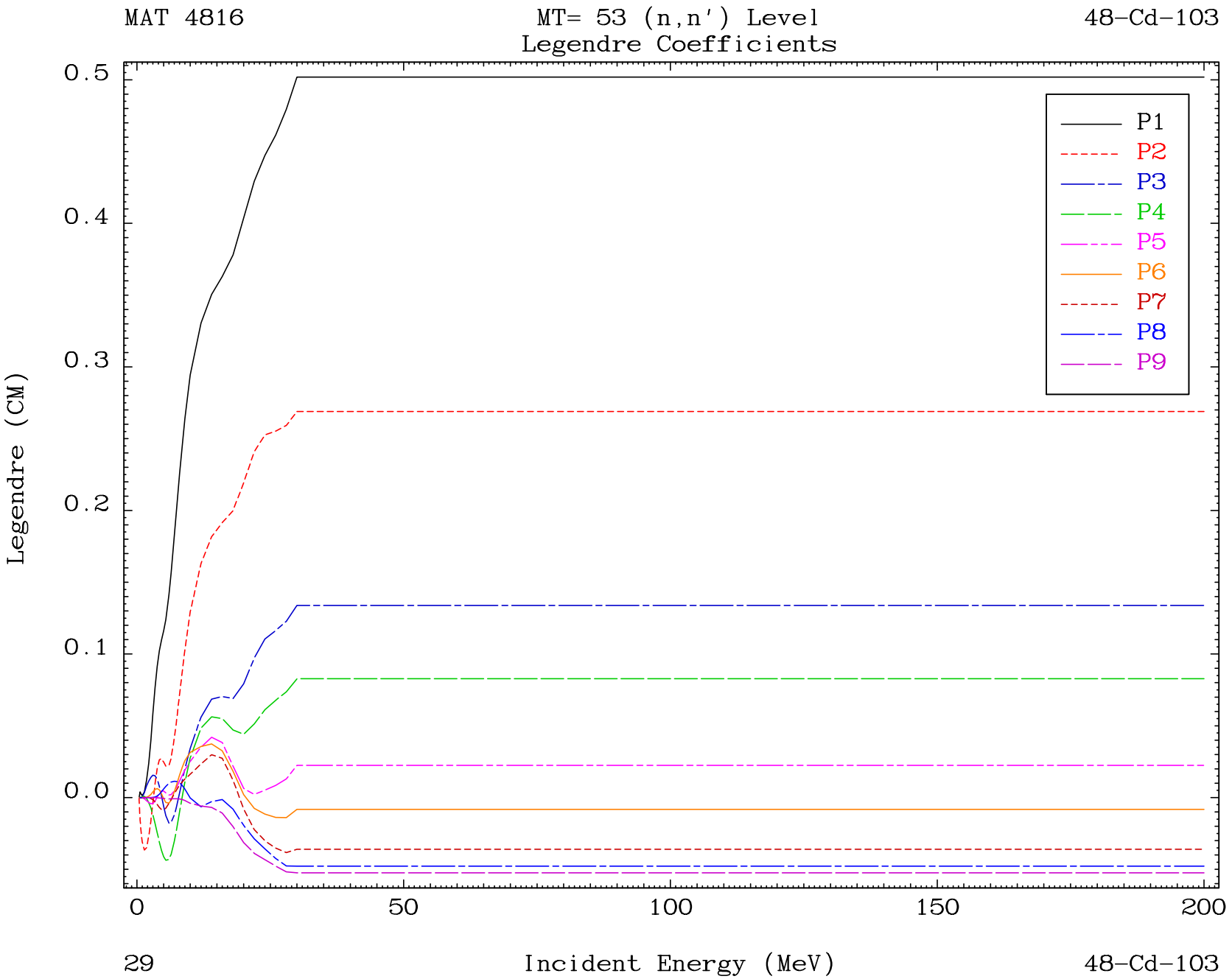

MAT 4816
MT= 51 (n,n') Level
Legendre Coefficients
48-Cd-103
X10-3
1.5
1.0
0.5
0.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
24
Incident Energy (MeV)
48-Cd-103

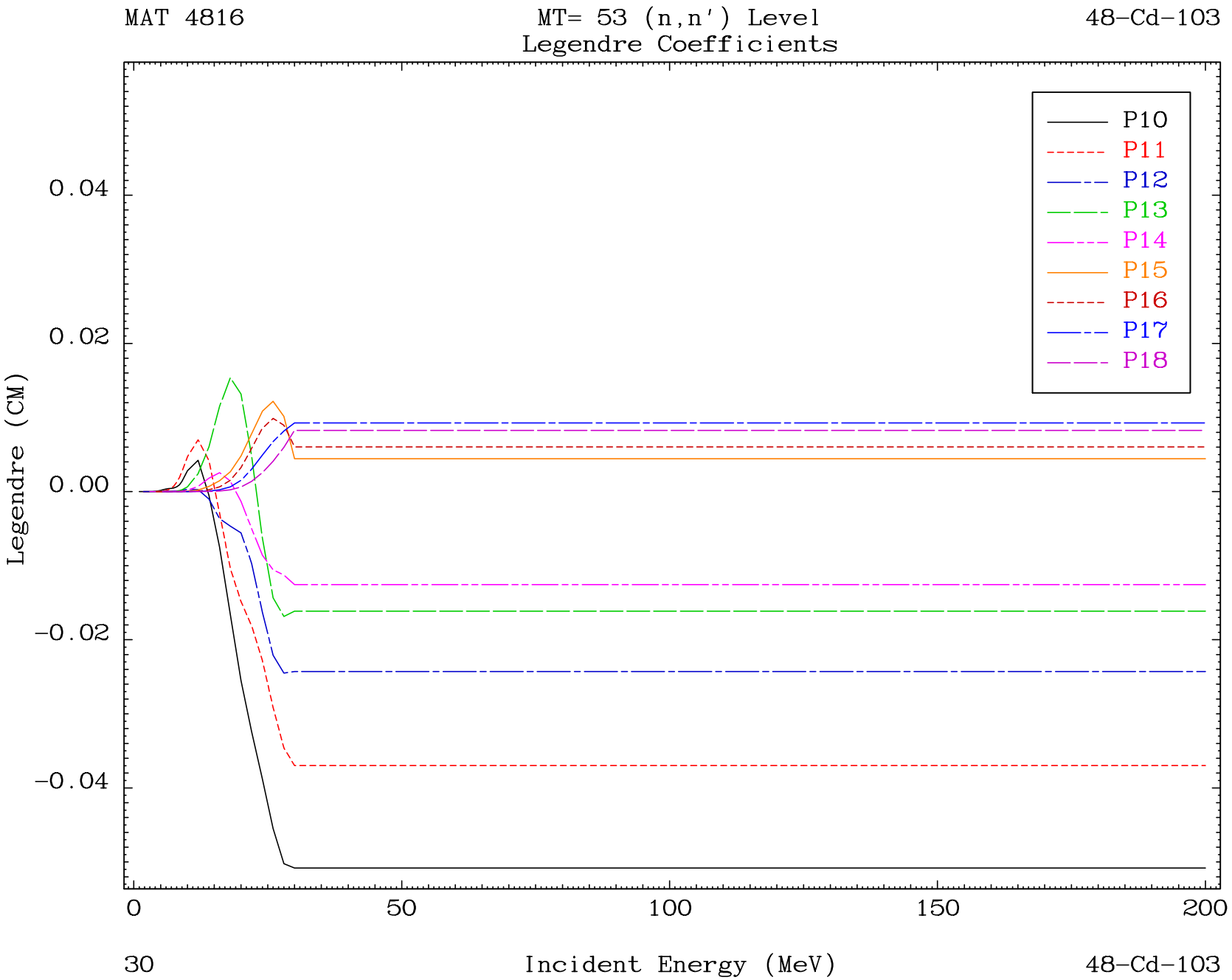

MAT 4816
MT= 51 (n,n') Level
Legendre Coefficients
48-Cd-103
X10^-7
8
6
4
2
0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
25
Incident Energy (MeV)
48-Cd-103

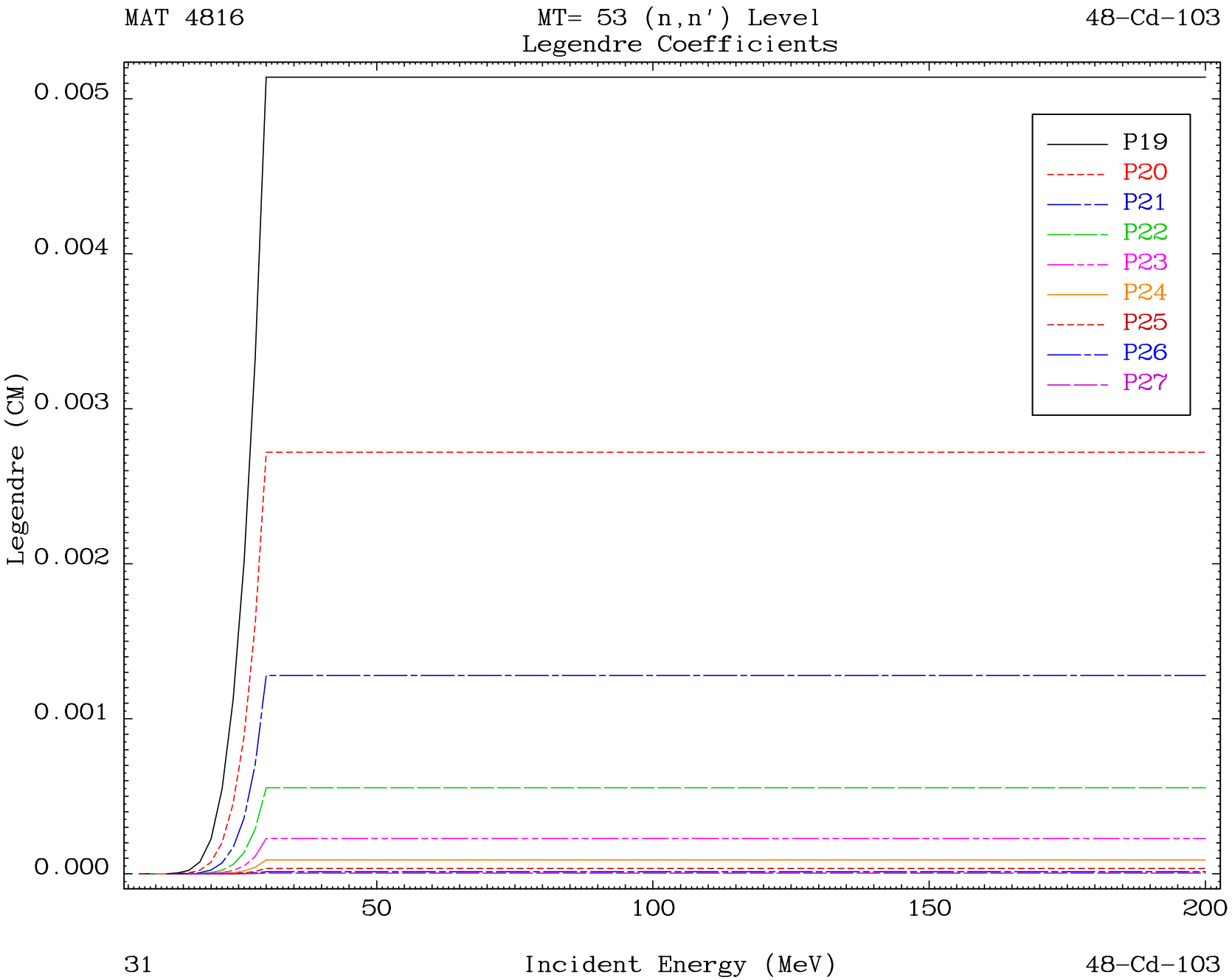

MAT 4816
MT= 52 (n,n') Level
Legendre Coefficients
48-Cd-103
0.12
0.10
0.08
0.06
0.04
0.02
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
26
Incident Energy (MeV)
48-Cd-103

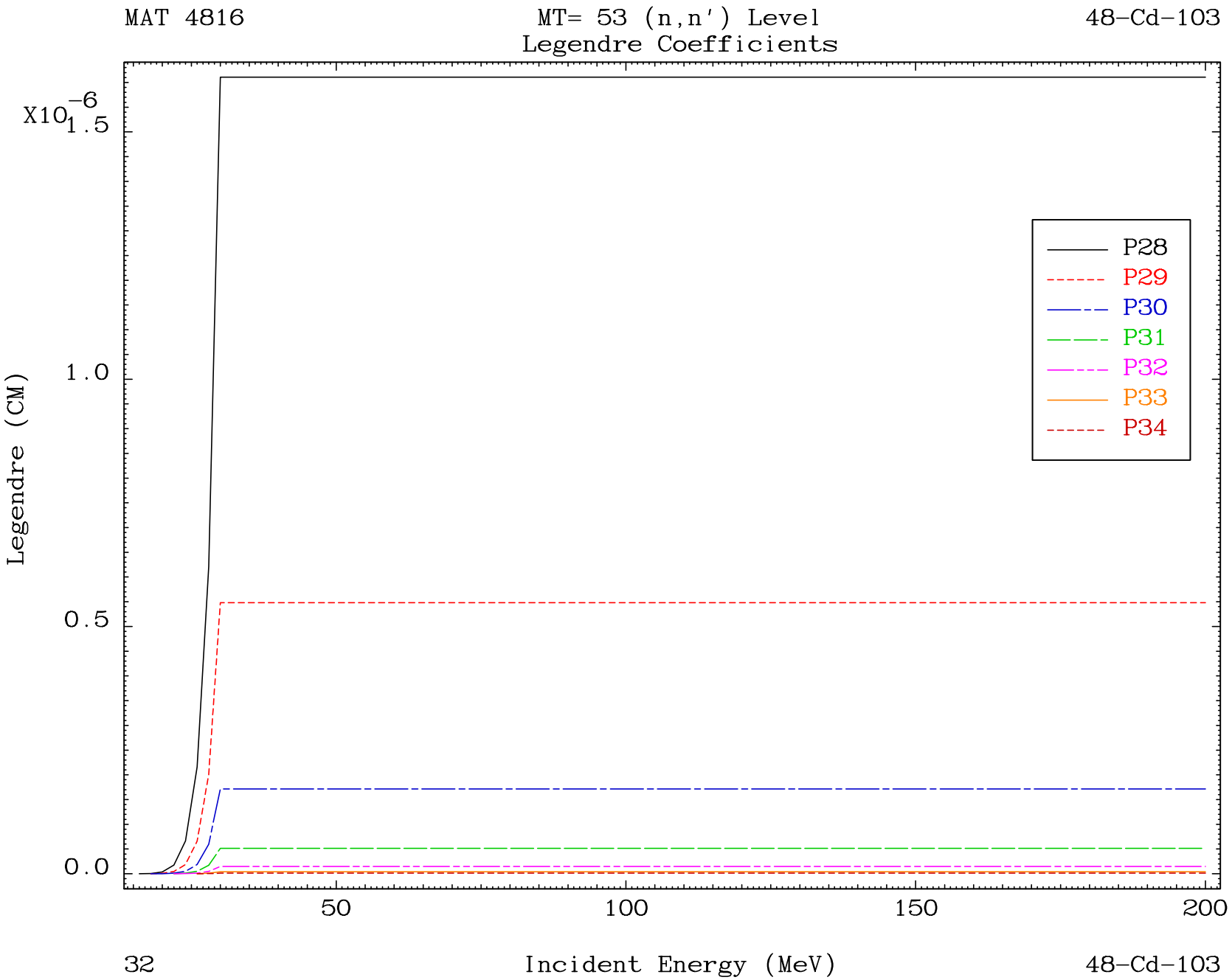

MAT 4816
MT= 52 (n,n') Level
Legendre Coefficients
48-Cd-103
X10+32
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
27
Incident Energy (MeV)
48-Cd-103

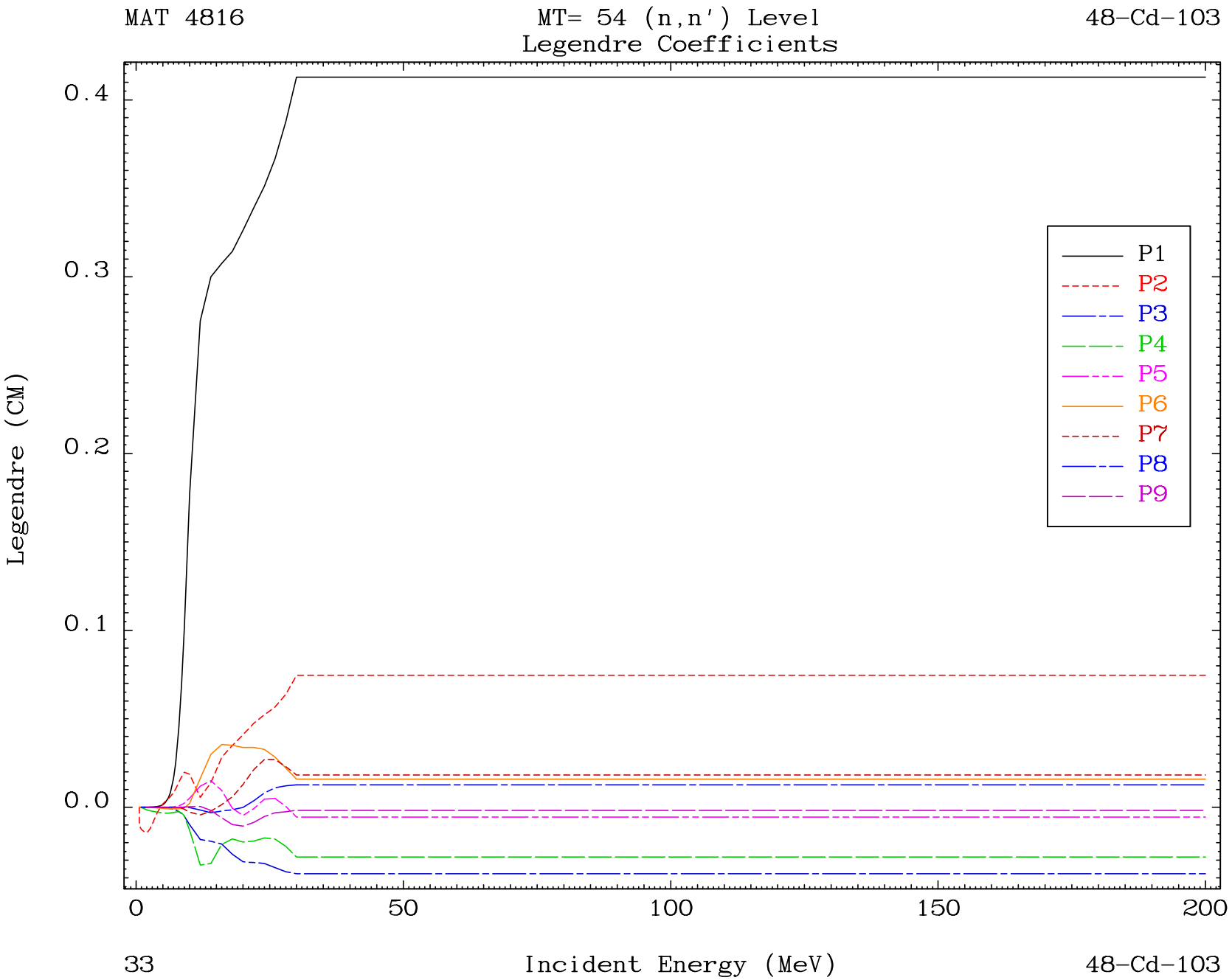

MAT 4816
MT= 52 (n,n') Level
Legendre Coefficients
48-Cd-103
X10^-7
6
4
2
0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
50
100
150
200
28
Incident Energy (MeV)
48-Cd-103

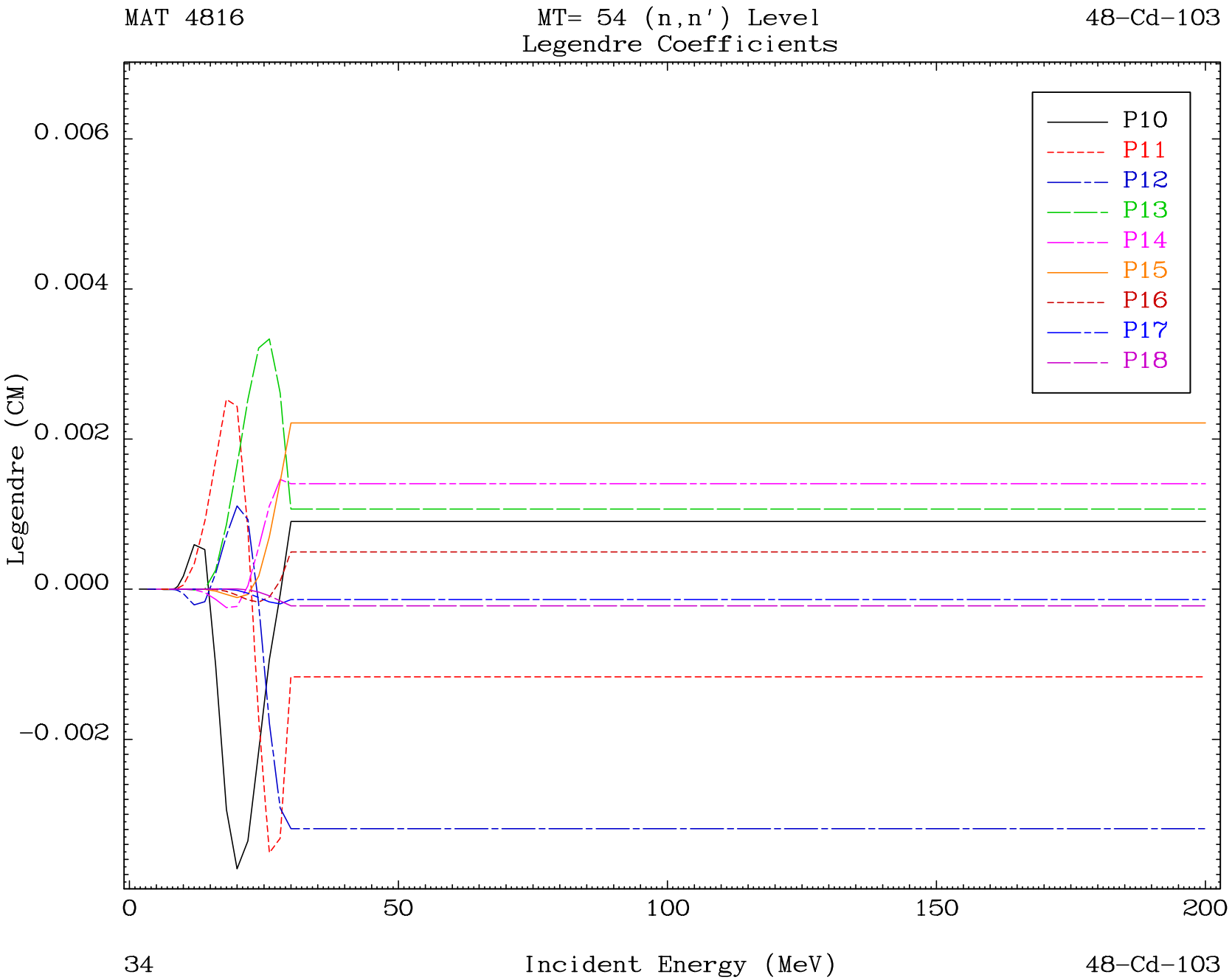

MAT 4816
MT= 53 (n,n') Level
Legendre Coefficients
48-Cd-103
0.5
0.4
0.3
0.2
0.1
0.0
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
29
Incident Energy (MeV)
48-Cd-103

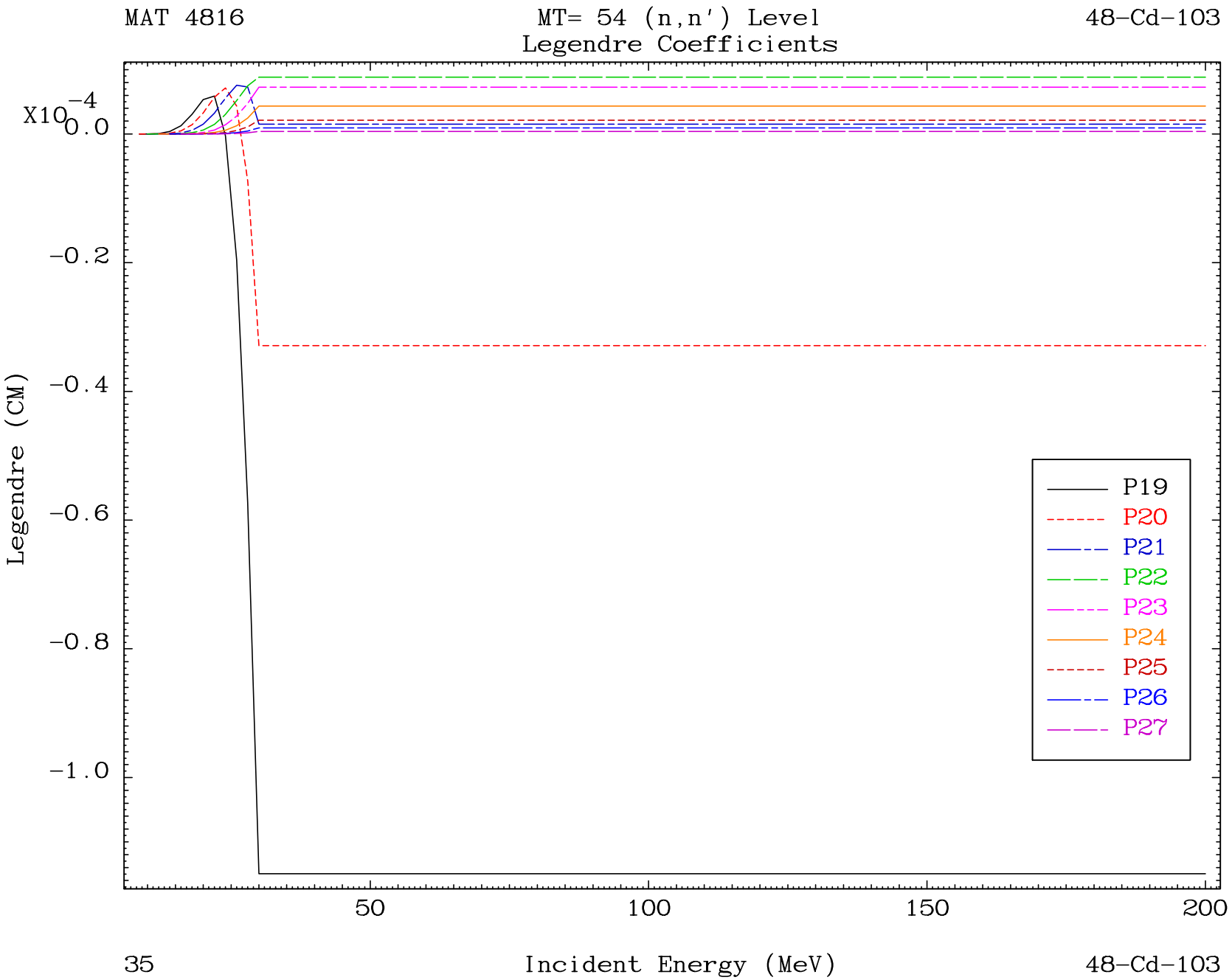

MAT 4816
MT= 53 (n,n') Level
Legendre Coefficients
48-Cd-103
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.04
0.02
0.00
-0.02
-0.04
Legendre (CM)
0
50
100
150
200
30
Incident Energy (MeV)
48-Cd-103

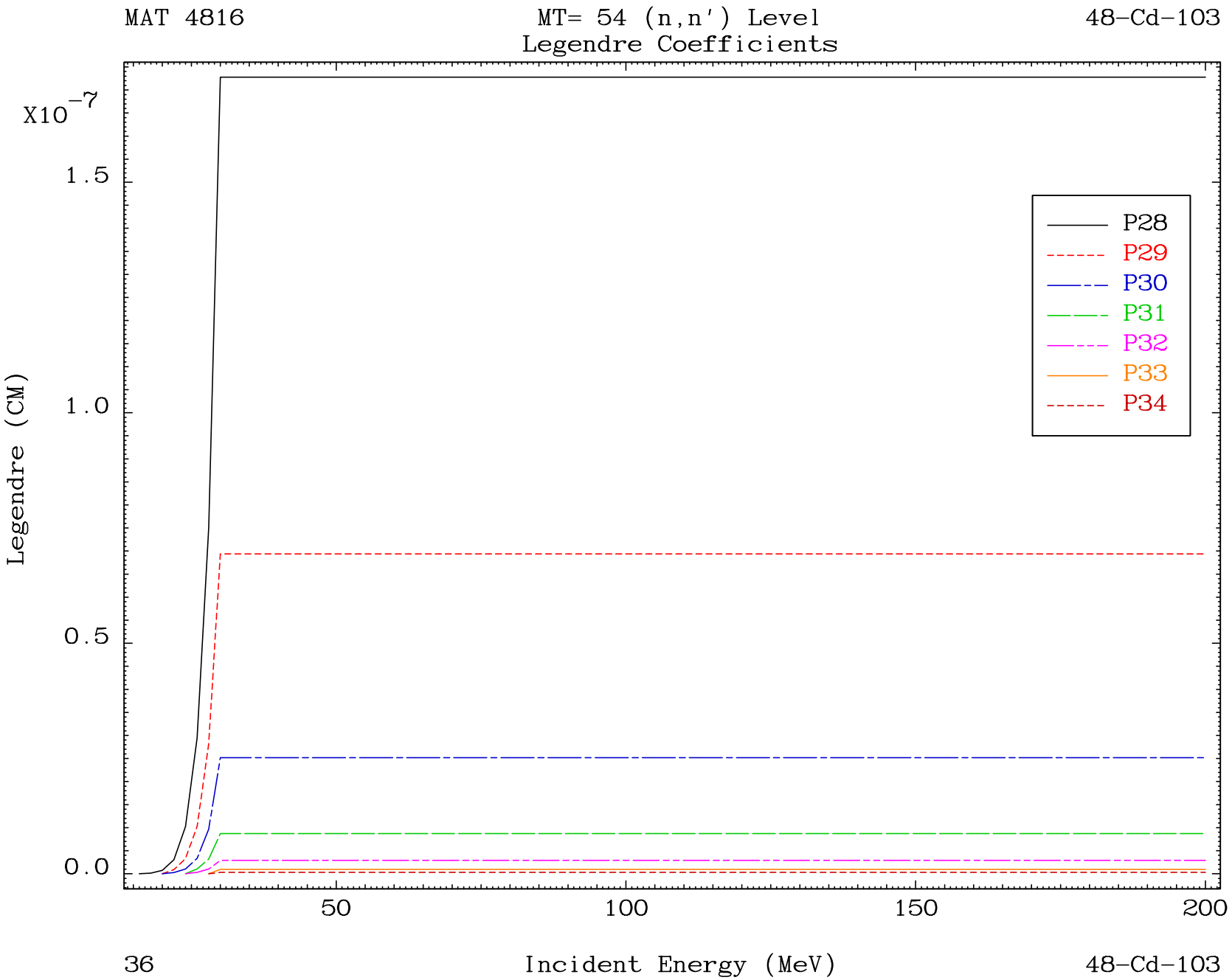

MAT 4816
MT= 53 (n,n') Level
Legendre Coefficients
48-Cd-103
0.005
0.004
0.003
0.002
0.001
0.000
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
31
Incident Energy (MeV)
48-Cd-103

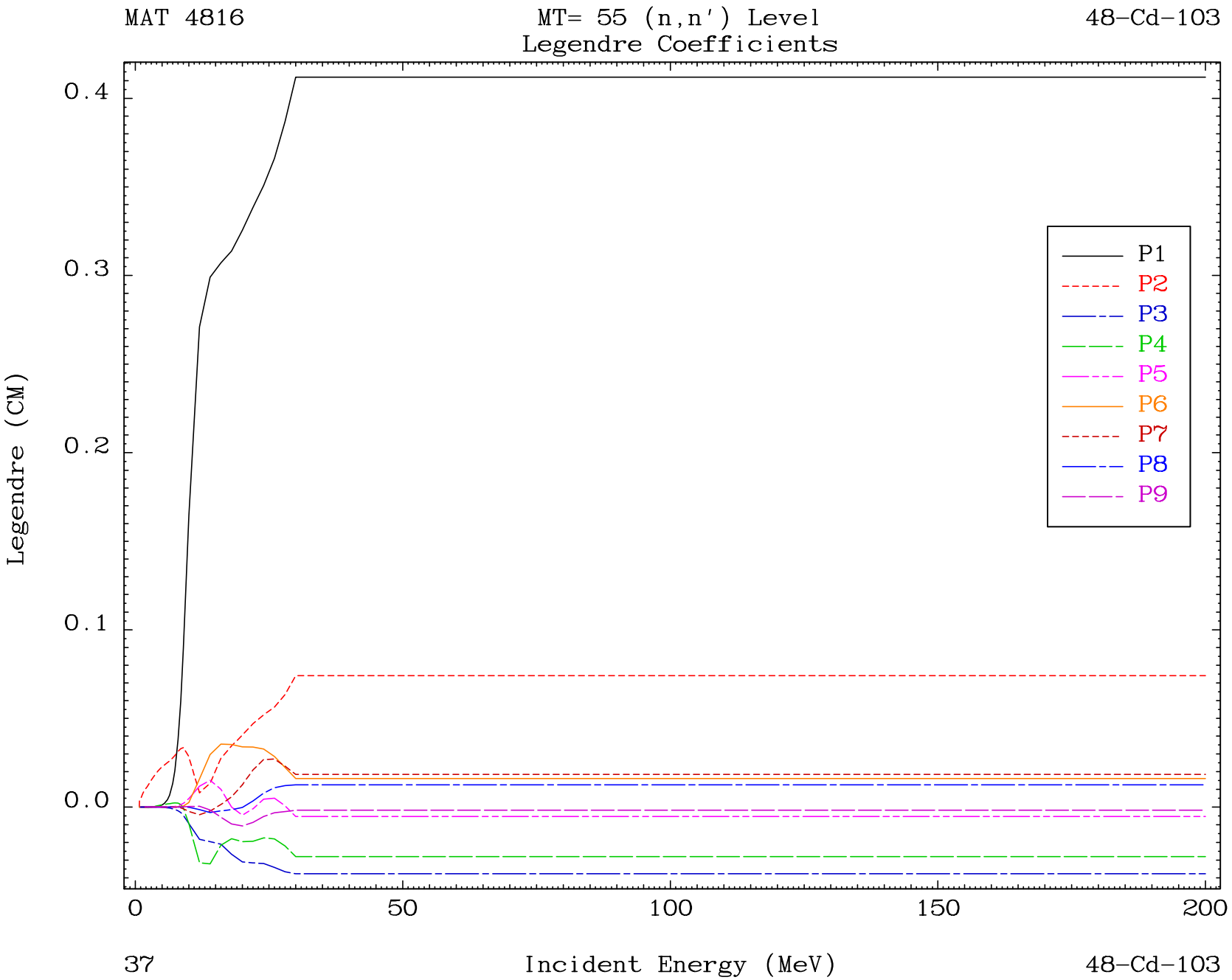

MAT 4816
MT= 53 (n,n') Level
Legendre Coefficients
48-Cd-103
X10^-6
1.5
1.0
0.5
0.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
32
Incident Energy (MeV)
48-Cd-103

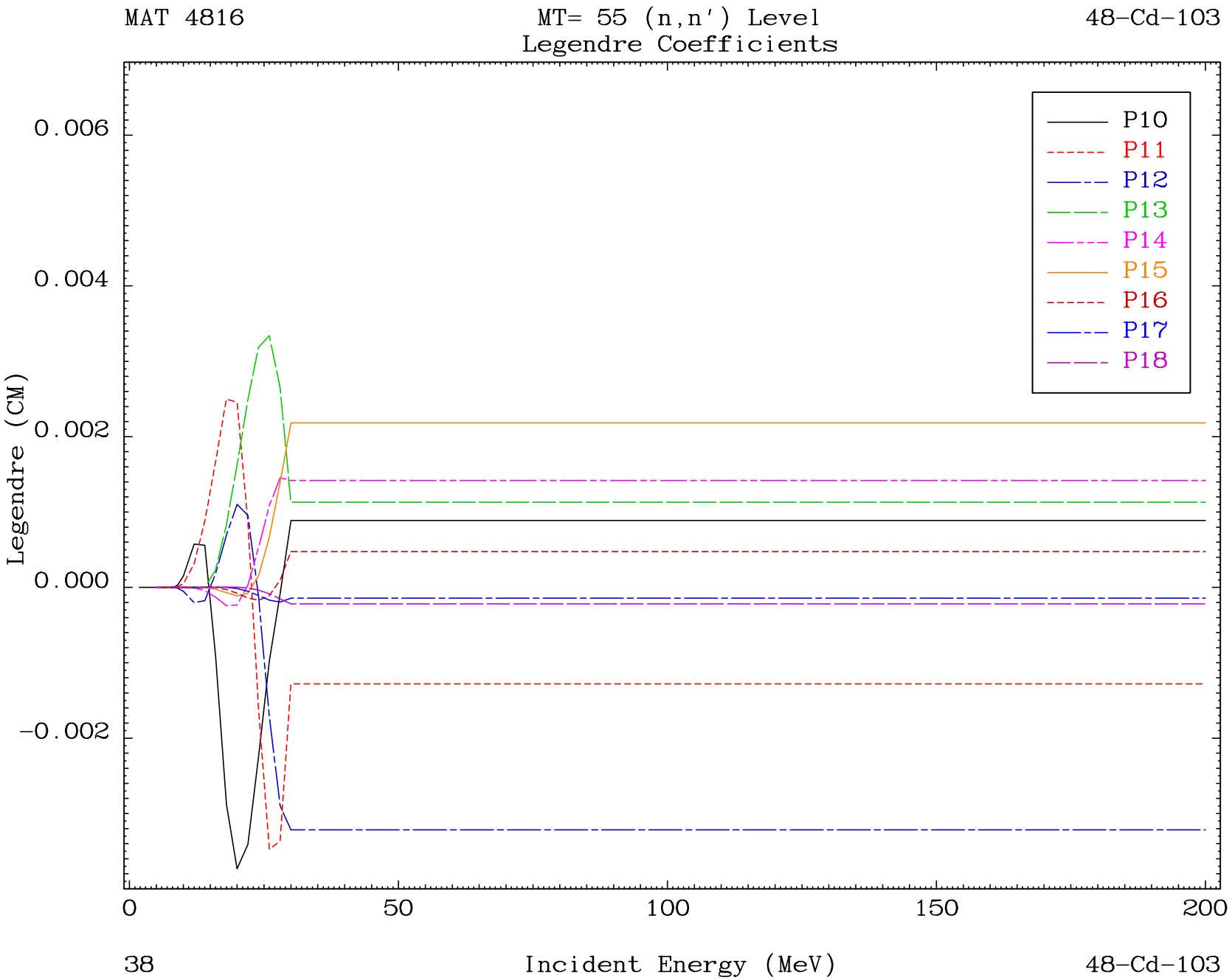

MAT 4816
MT= 54 (n,n') Level
Legendre Coefficients
48-Cd-103
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
33
Incident Energy (MeV)
48-Cd-103

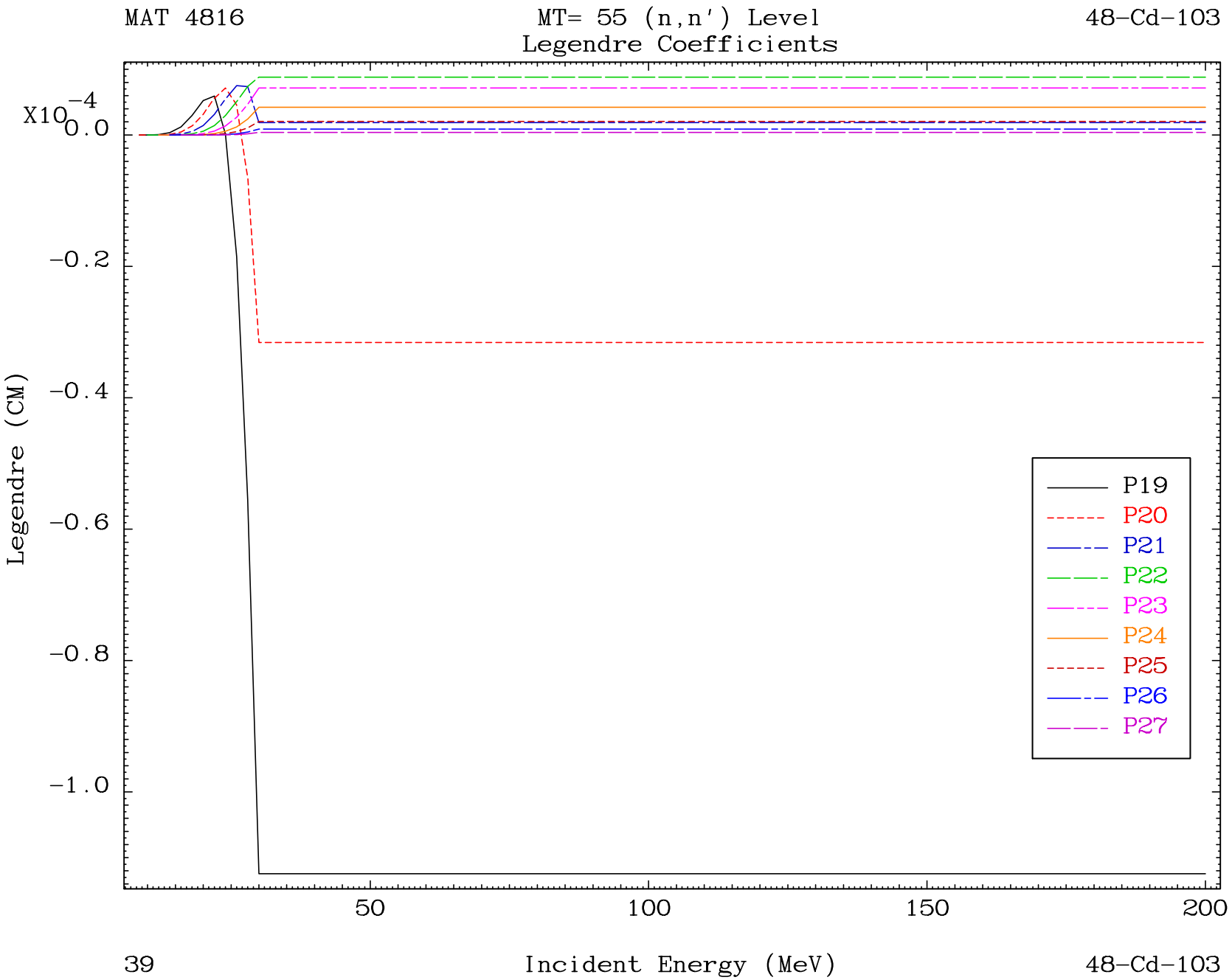

MAT 4816
MT= 54 (n,n') Level
Legendre Coefficients
48-Cd-103
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.006
0.004
0.002
0.000
-0.002
Legendre (CM)
0
50
100
150
200
34
Incident Energy (MeV)
48-Cd-103

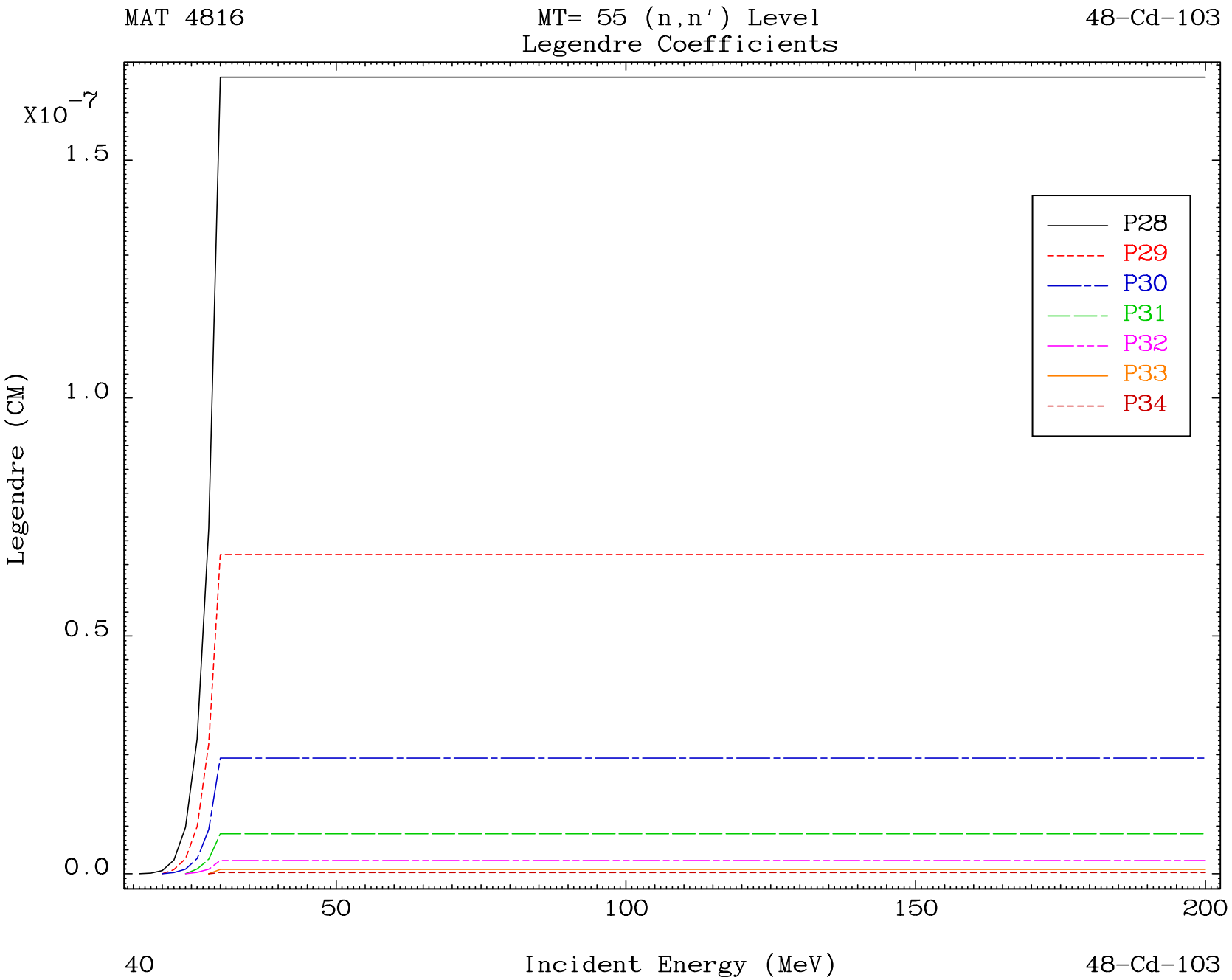

MAT 4816
MT= 54 (n,n') Level
Legendre Coefficients
48-Cd-103
X10^-4
0.0
-0.2
-0.4
-0.6
-0.8
-1.0
Legendre (CM)
50
100
150
200
35
Incident Energy (MeV)
48-Cd-103
P19
P20
P21
P22
P23
P24
P25
P26
P27

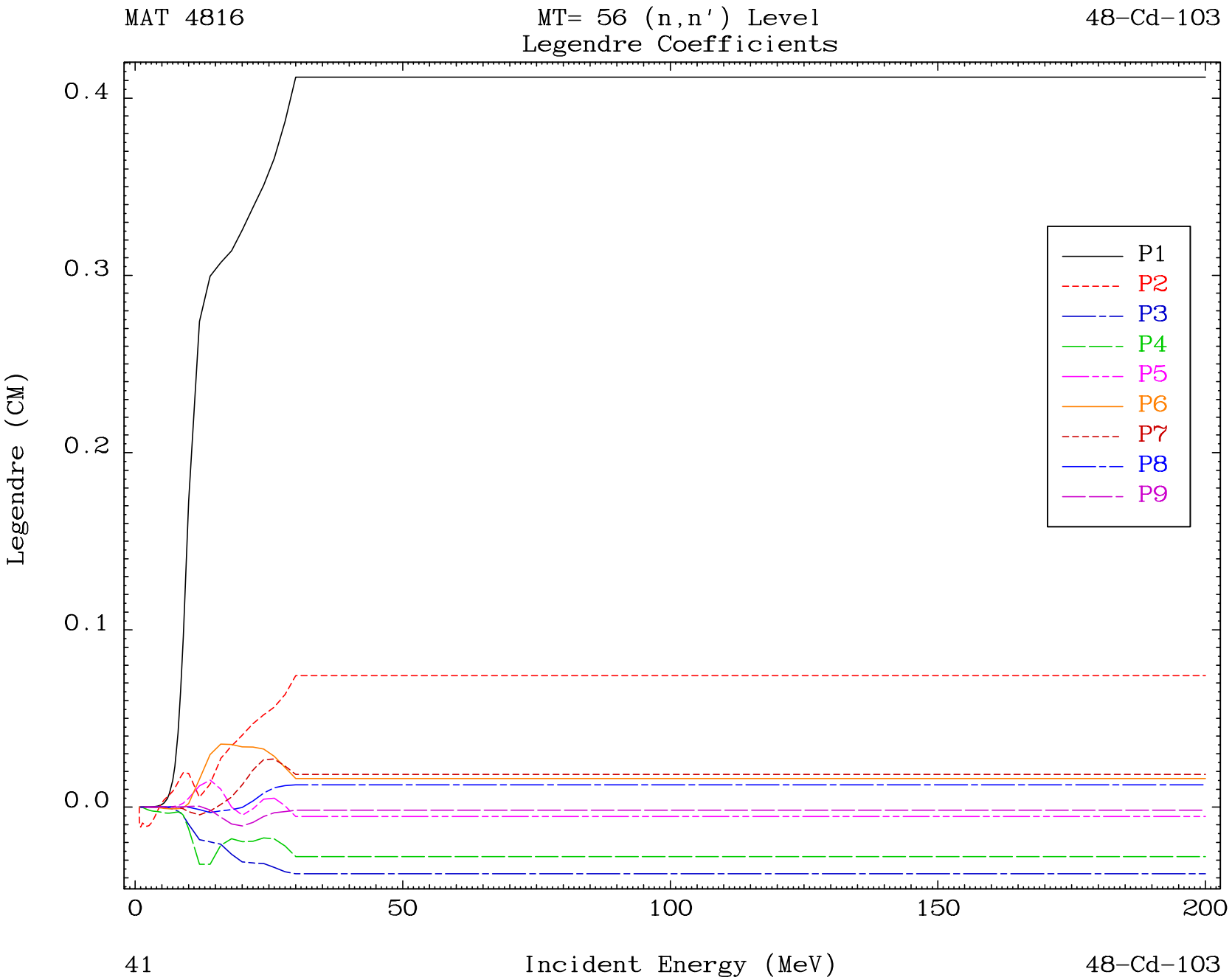

MAT 4816
MT= 54 (n,n') Level
Legendre Coefficients
48-Cd-103
X10-7
1.5
1.0
0.5
0.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
36
Incident Energy (MeV)
48-Cd-103

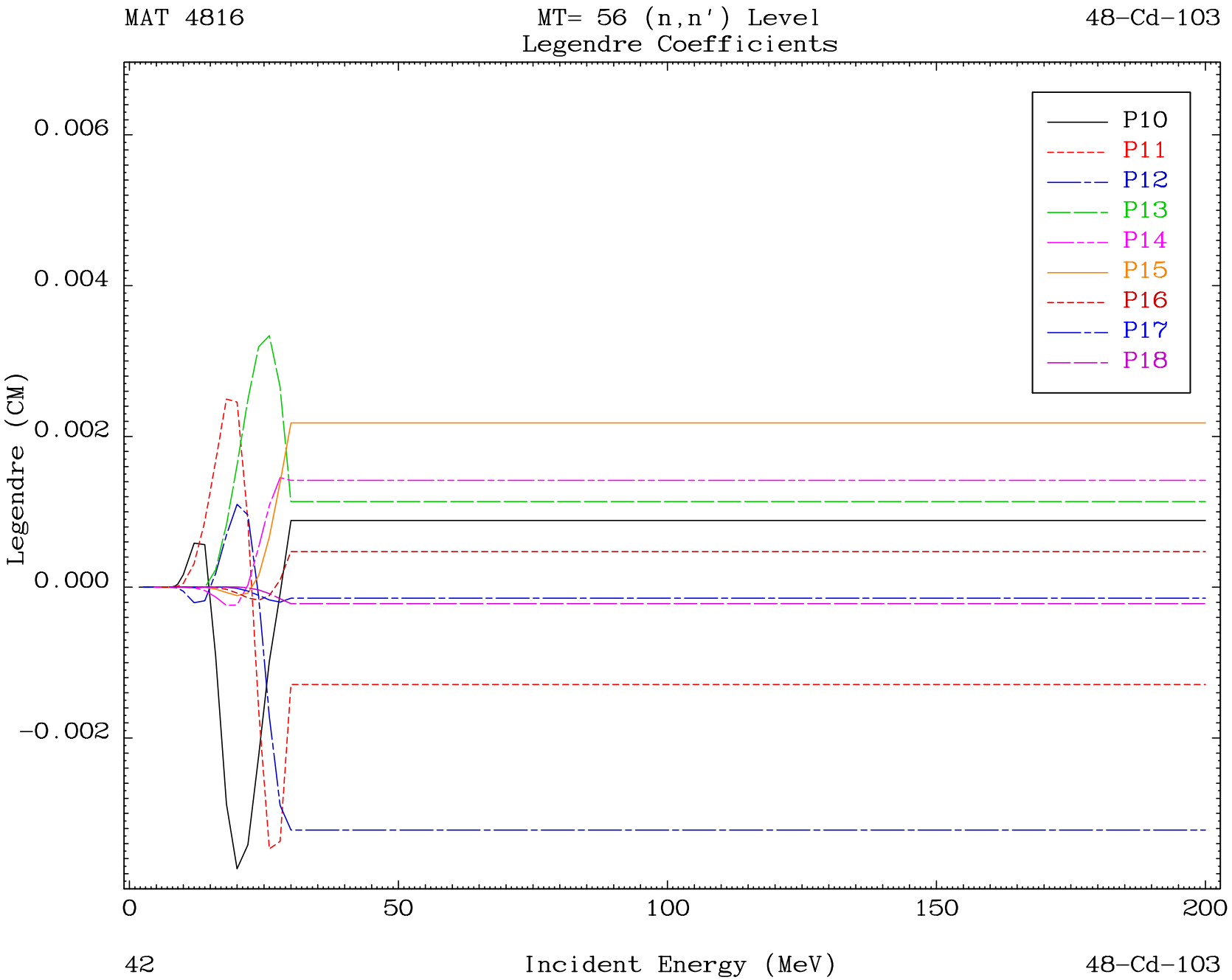

MAT 4816
MT= 55 (n,n') Level
Legendre Coefficients
48-Cd-103
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
37
Incident Energy (MeV)
48-Cd-103

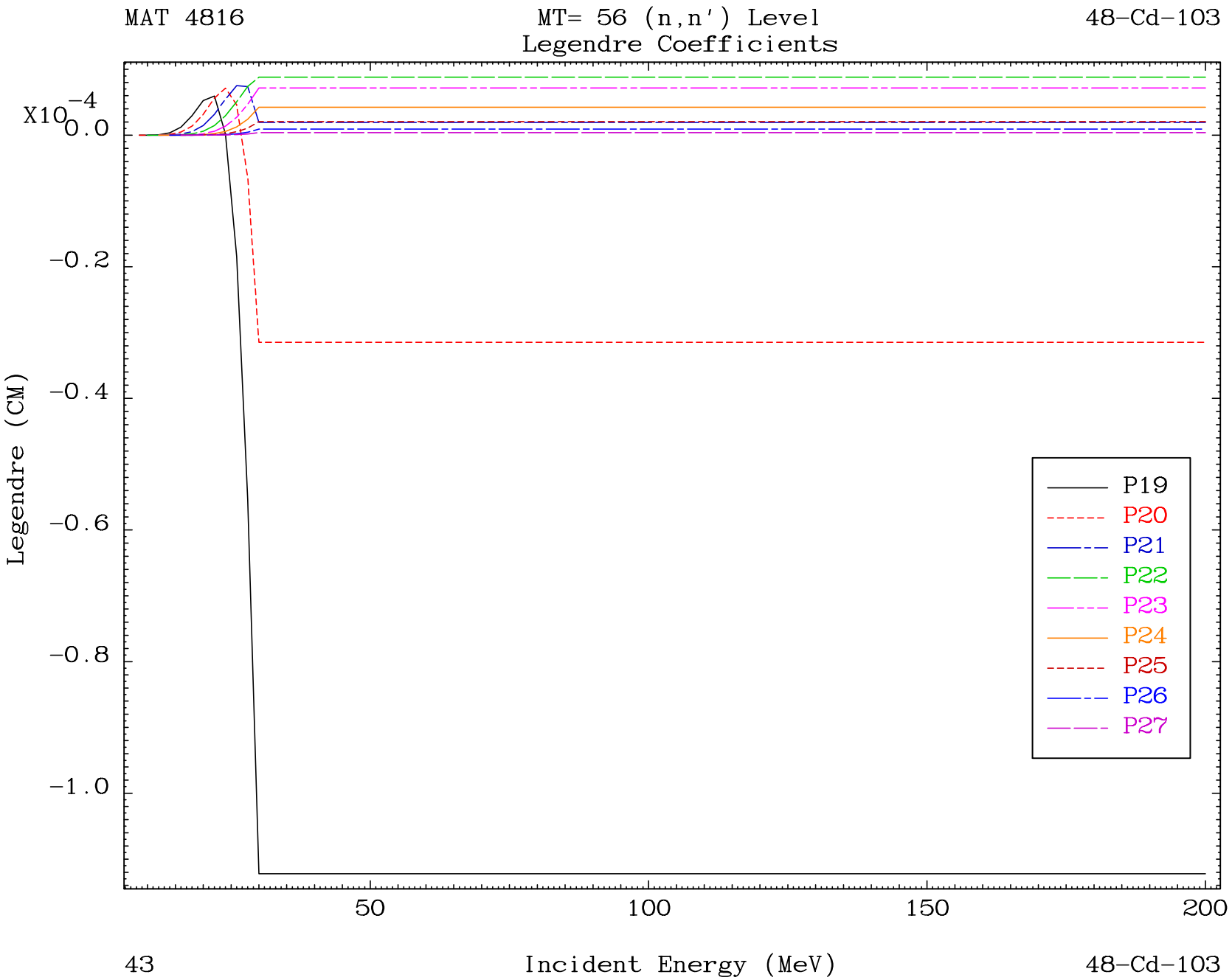

MAT 4816
MT= 55 (n,n') Level
Legendre Coefficients
48-Cd-103
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.006
0.004
0.002
0.000
-0.002
Legendre (CM)
0
50
100
150
200
38
Incident Energy (MeV)
48-Cd-103

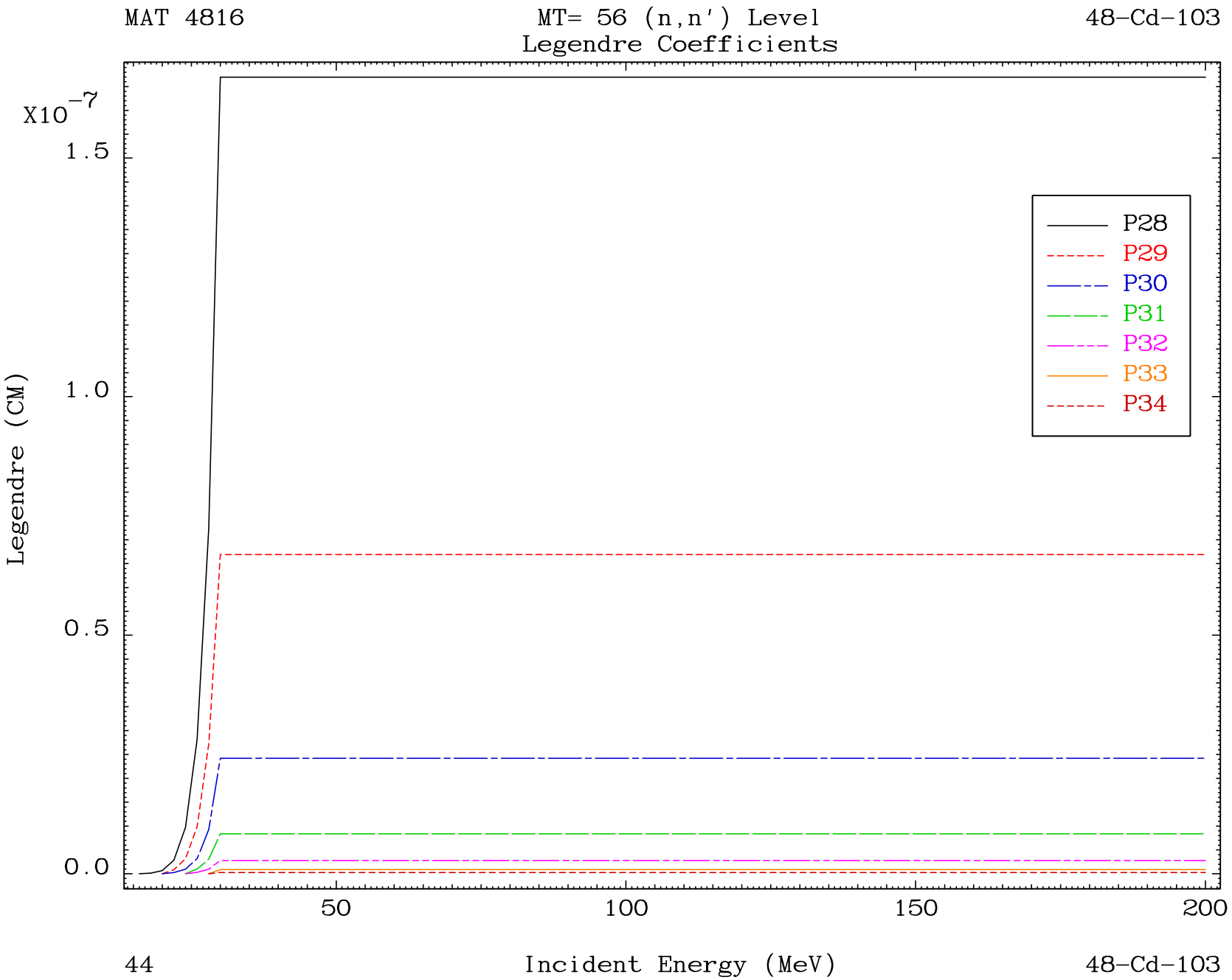

MAT 4816
MT= 55 (n,n') Level
Legendre Coefficients
48-Cd-103
X10^-4
0.0
-0.2
-0.4
-0.6
-0.8
-1.0
Legendre (CM)
50
100
150
200
Incident Energy (MeV)
P19
P20
P21
P22
P23
P24
P25
P26
P27
39
48-Cd-103

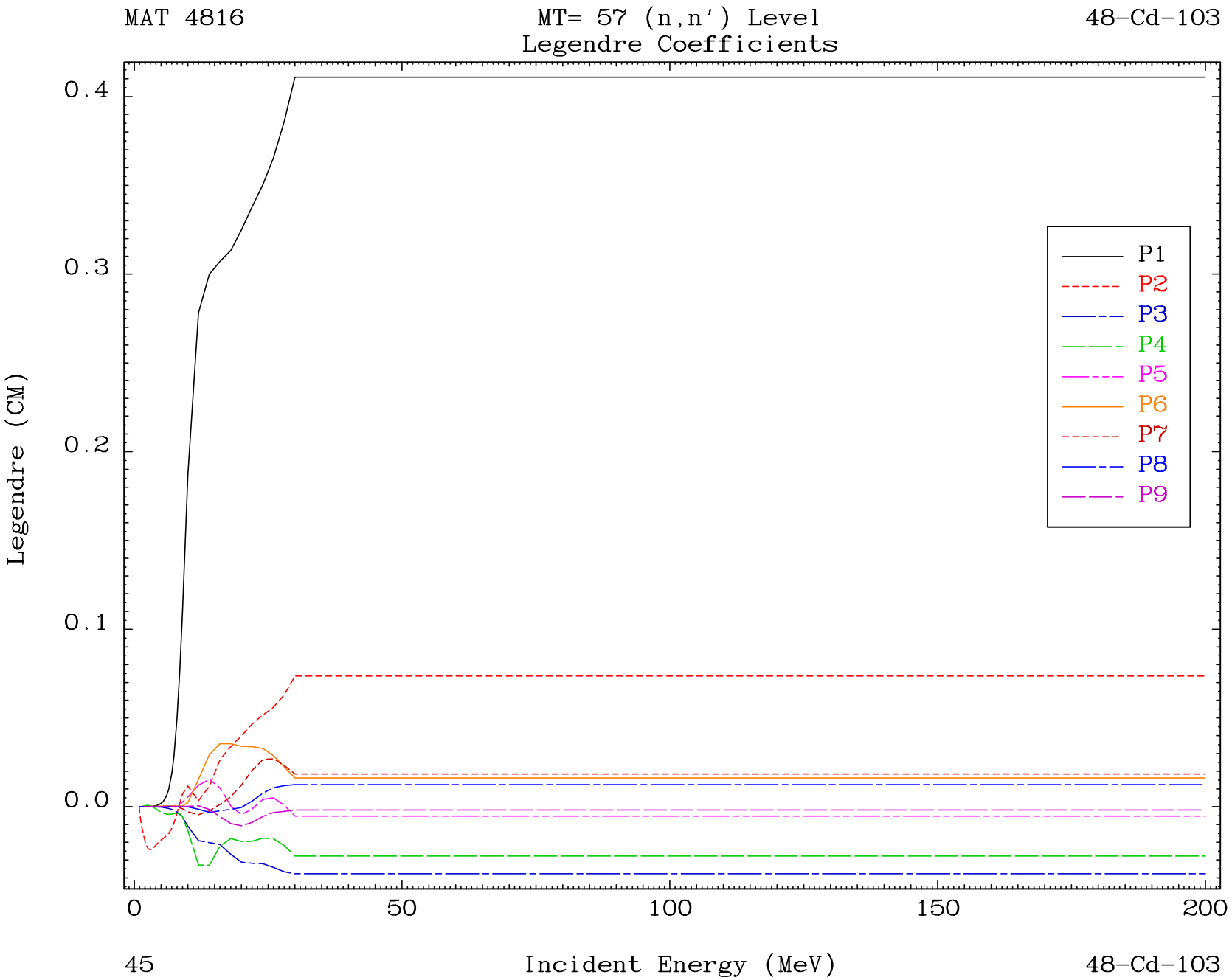

MAT 4816
MT= 55 (n,n') Level
Legendre Coefficients
48-Cd-103
X10-7
1.5
1.0
0.5
0.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
40
50
100
150
200
Incident Energy (MeV)
48-Cd-103

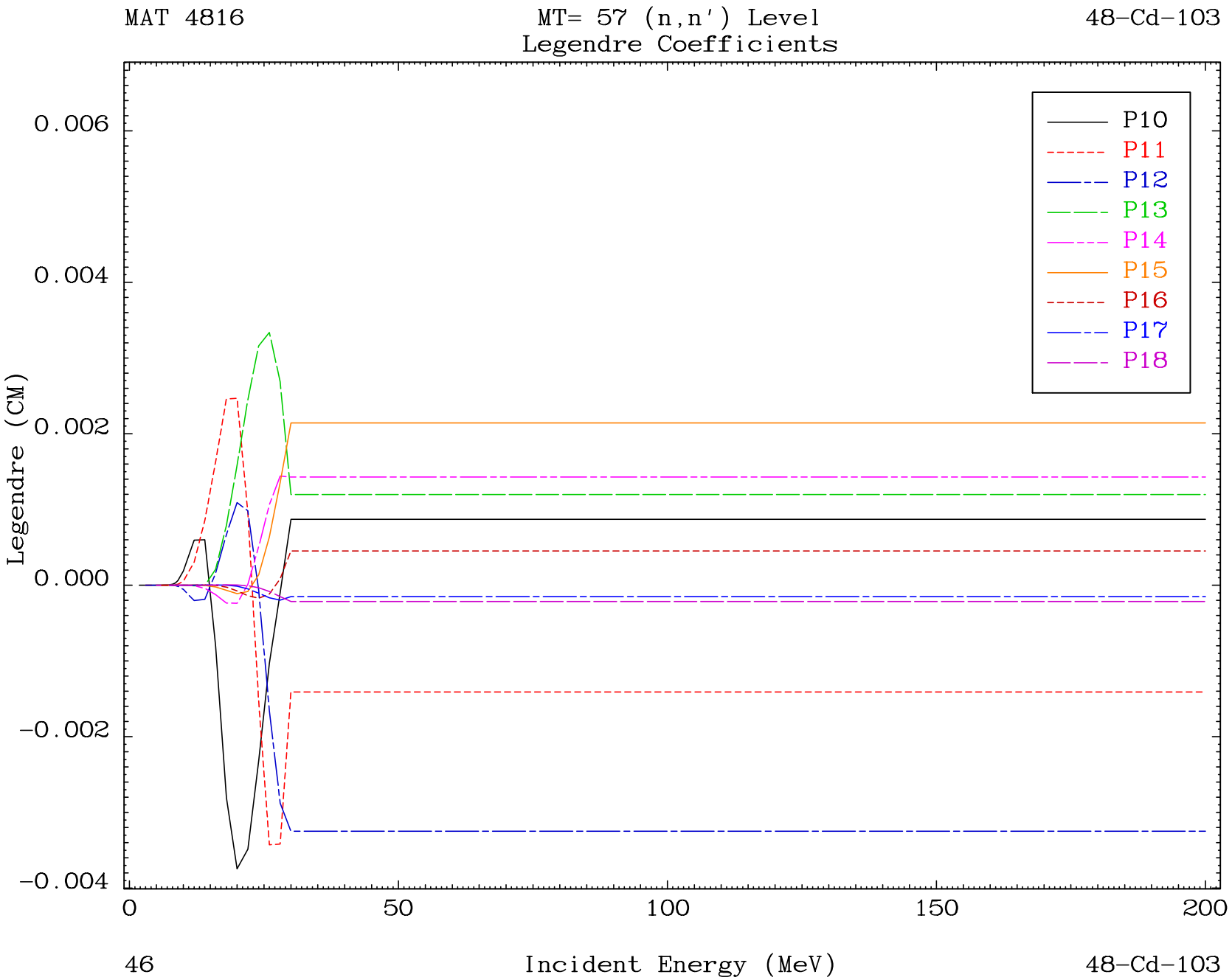

MAT 4816
MT= 56 (n,n') Level
Legendre Coefficients
48-Cd-103
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
41
Incident Energy (MeV)
48-Cd-103

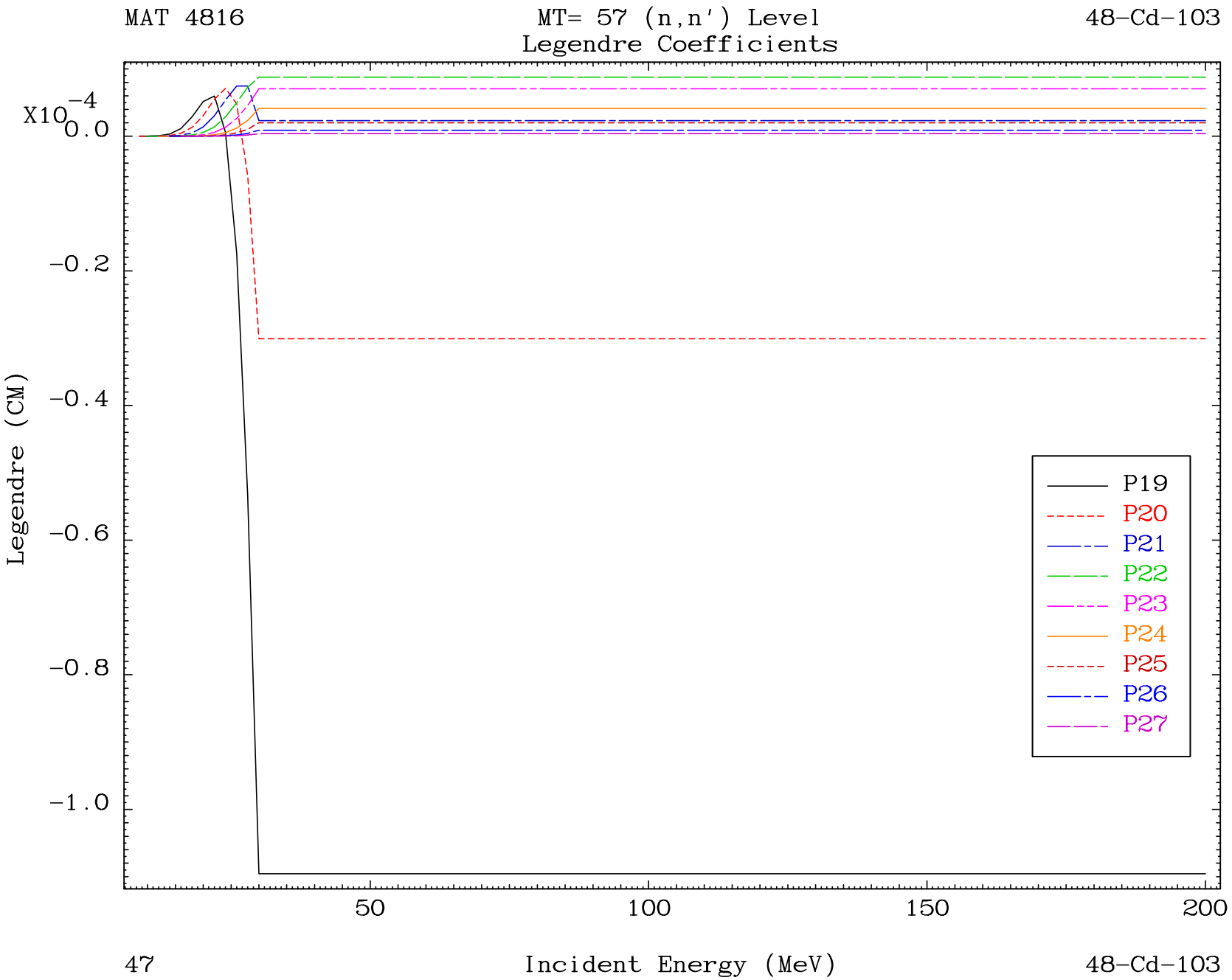

MAT 4816
MT= 56 (n,n') Level
Legendre Coefficients
48-Cd-103
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.006
0.004
0.002
0.000
-0.002
Legendre (CM)
0
50
100
150
200
42
Incident Energy (MeV)
48-Cd-103

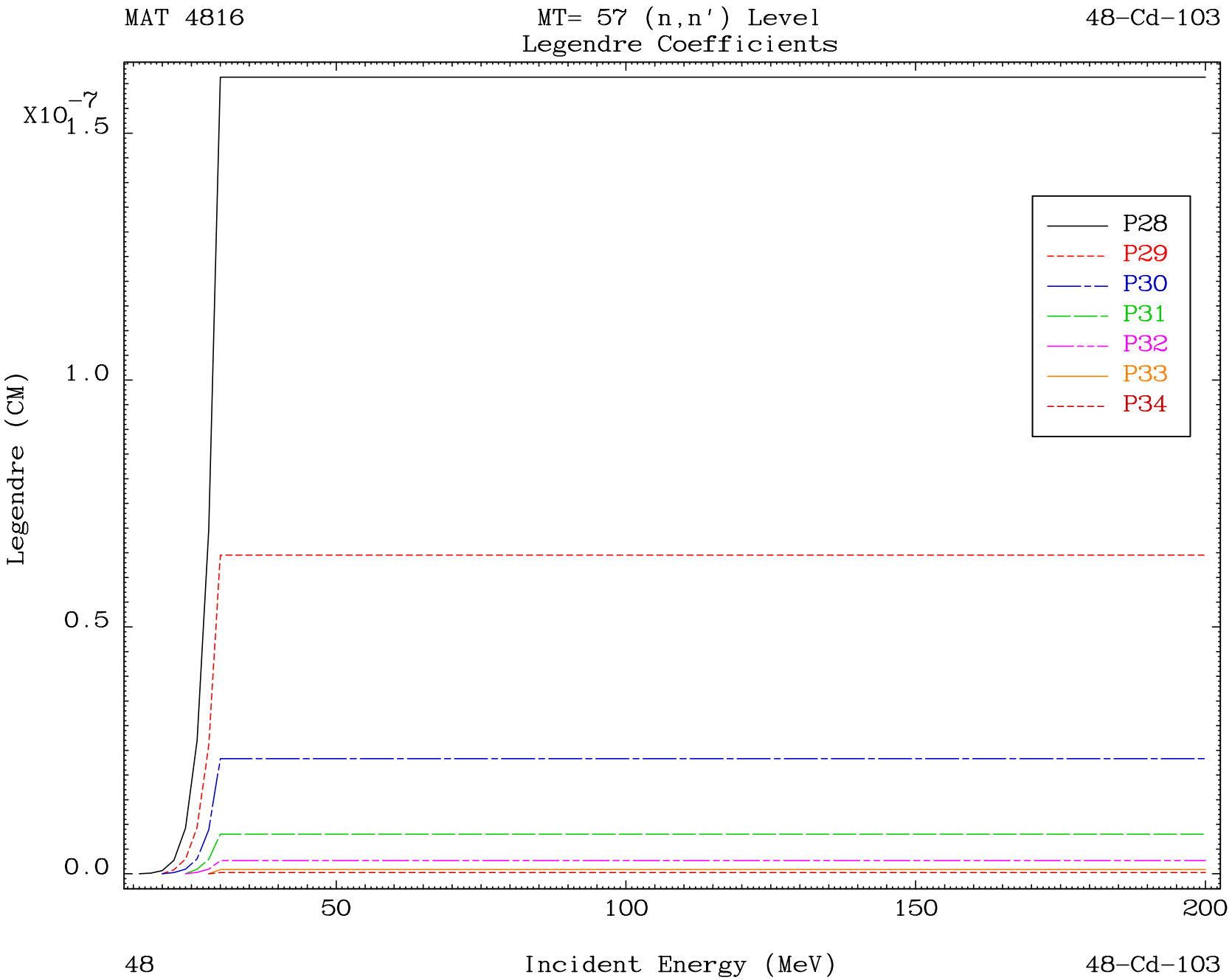

MAT 4816
MT= 56 (n,n') Level
Legendre Coefficients
48-Cd-103
X10^-4
0.0
-0.2
-0.4
-0.6
-0.8
-1.0
Legendre (CM)
50
100
150
200
Incident Energy (MeV)
43
48-Cd-103
P19
P20
P21
P22
P23
P24
P25
P26
P27

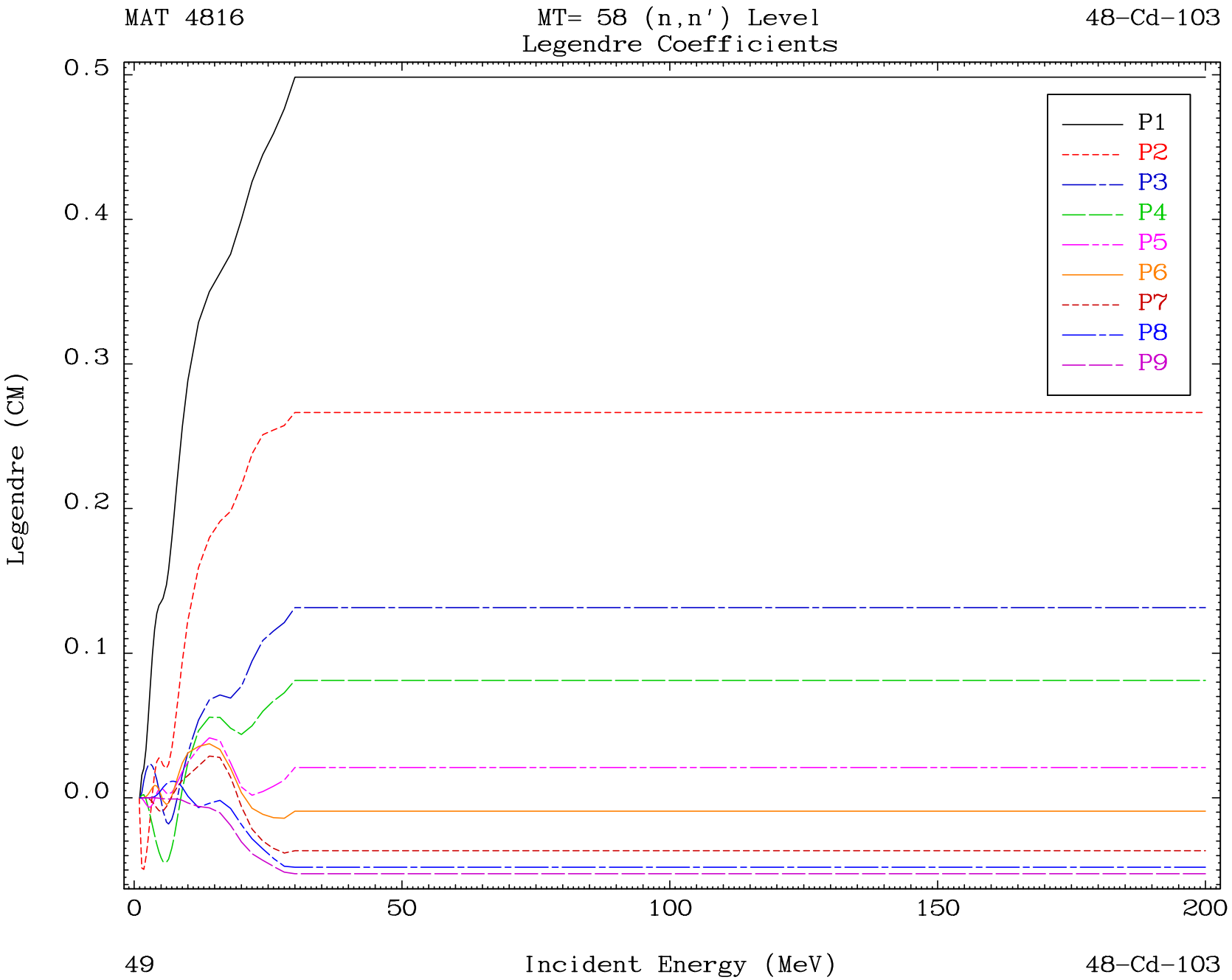

MAT 4816
MT= 56 (n,n') Level
Legendre Coefficients
48-Cd-103
X10-7
1.5
1.0
0.5
0.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
44
Incident Energy (MeV)
48-Cd-103

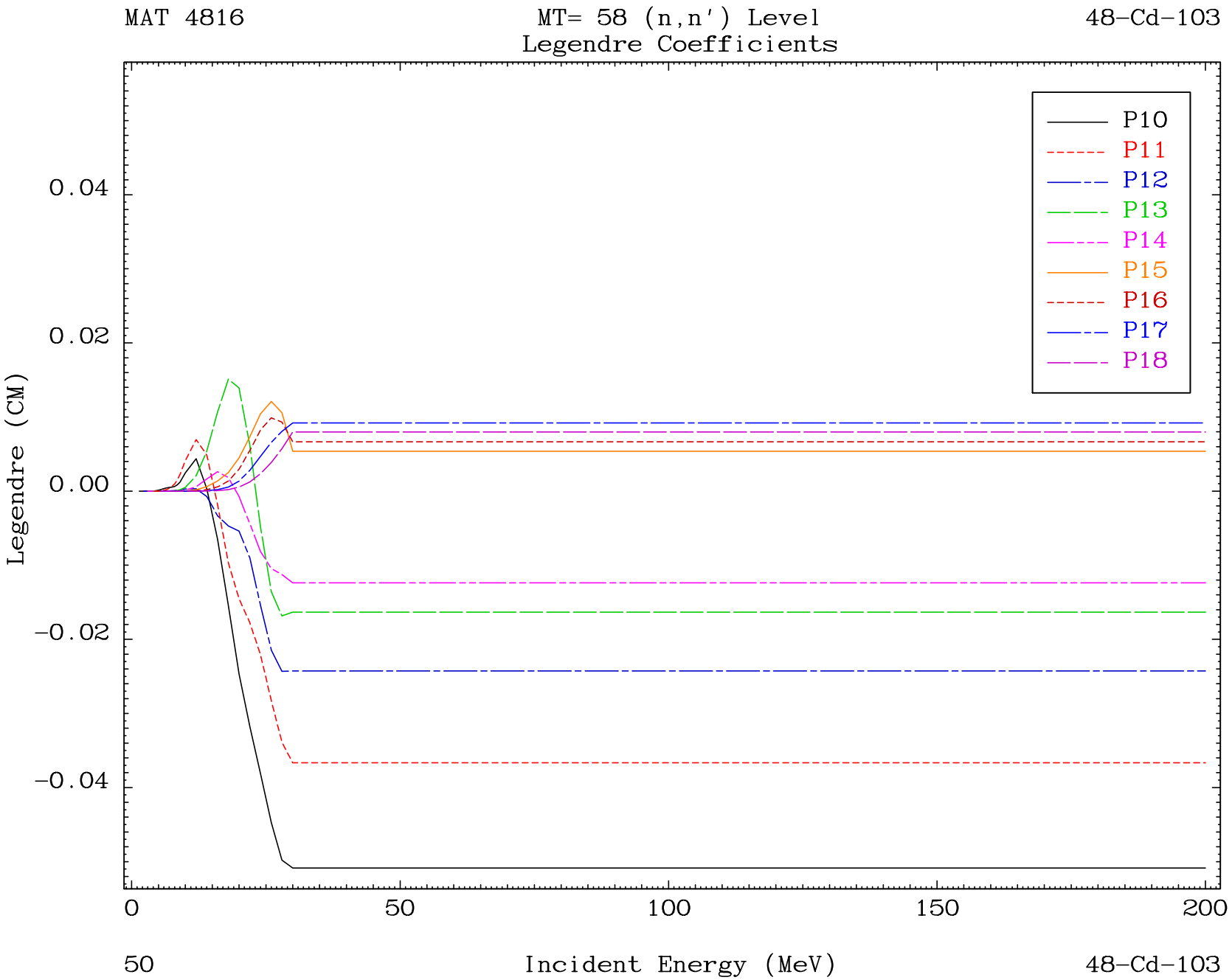

MAT 4816
MT= 57 (n,n') Level
Legendre Coefficients
48-Cd-103
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
45
Incident Energy (MeV)
48-Cd-103
P1
P2
P3
P4
P5
P6
P7
P8
P9

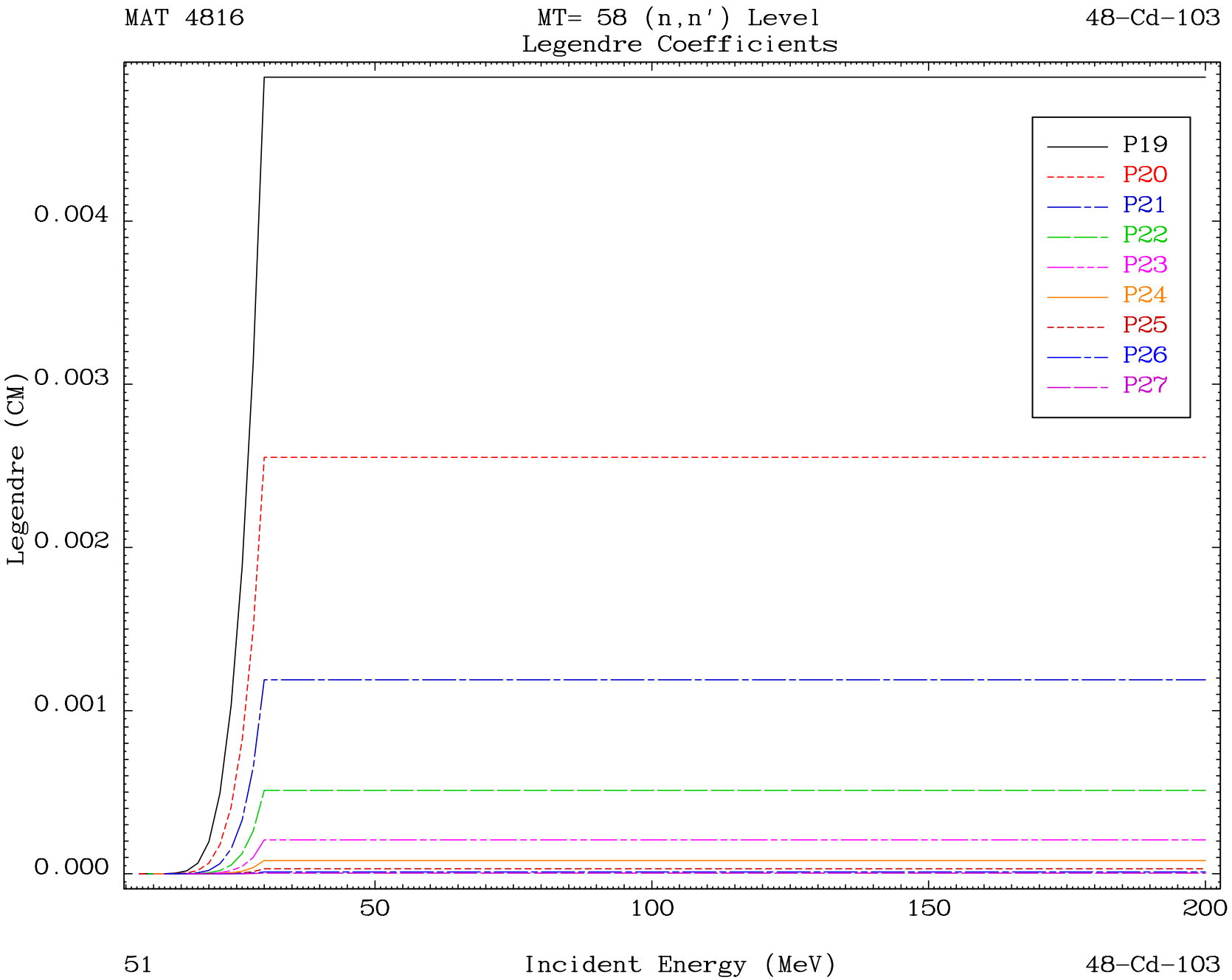

MAT 4816
MT= 57 (n,n') Level
Legendre Coefficients
48-Cd-103
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.006
0.004
0.002
0.000
-0.002
-0.004
Legendre (CM)
0
50
100
150
200
46
Incident Energy (MeV)
48-Cd-103

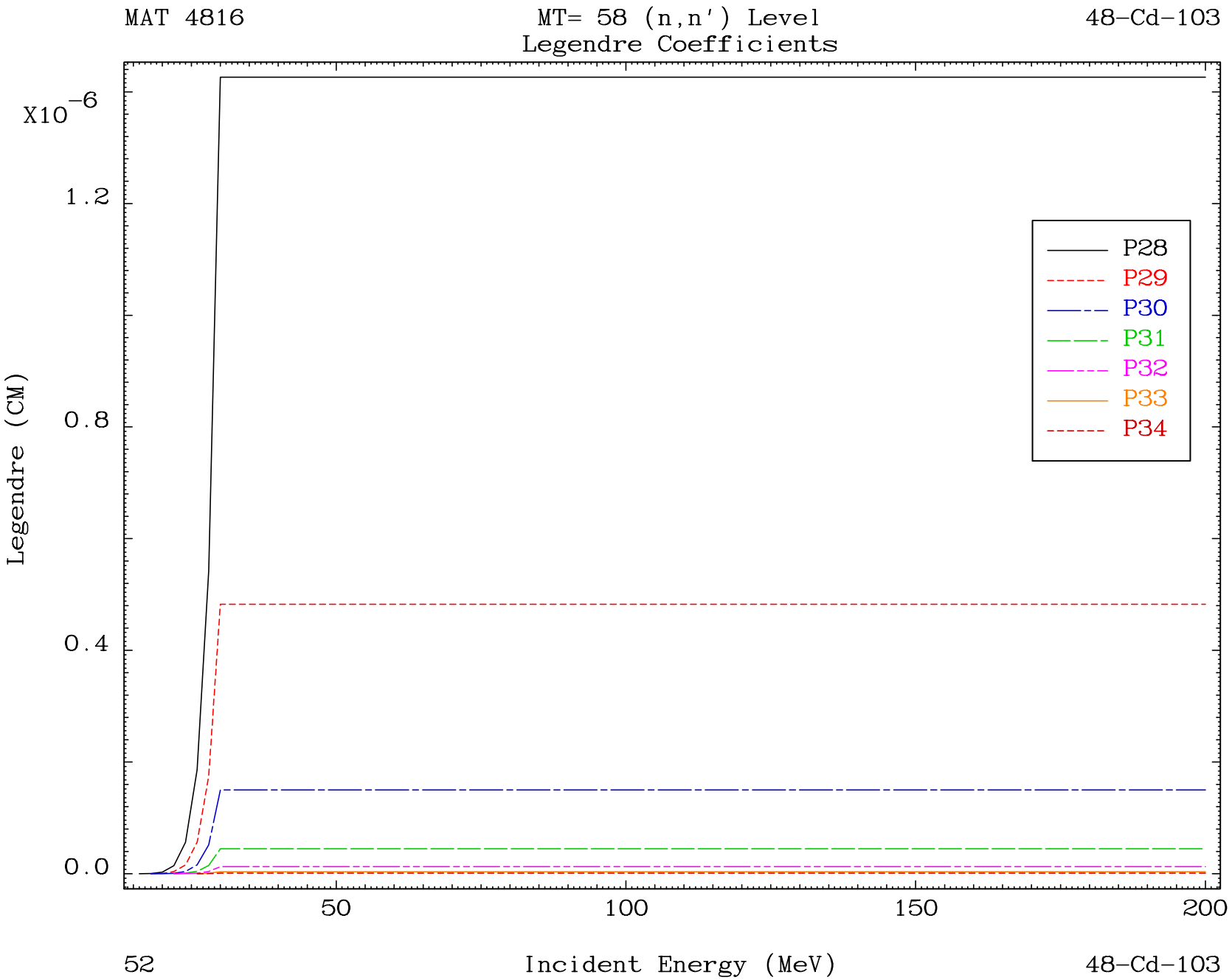

MAT 4816
MT= 57 (n,n') Level
Legendre Coefficients
48-Cd-103
X10^-4
0.0
-0.2
-0.4
-0.6
-0.8
-1.0
Legendre (CM)
50
100
150
200
47
Incident Energy (MeV)
48-Cd-103
P19
P20
P21
P22
P23
P24
P25
P26
P27

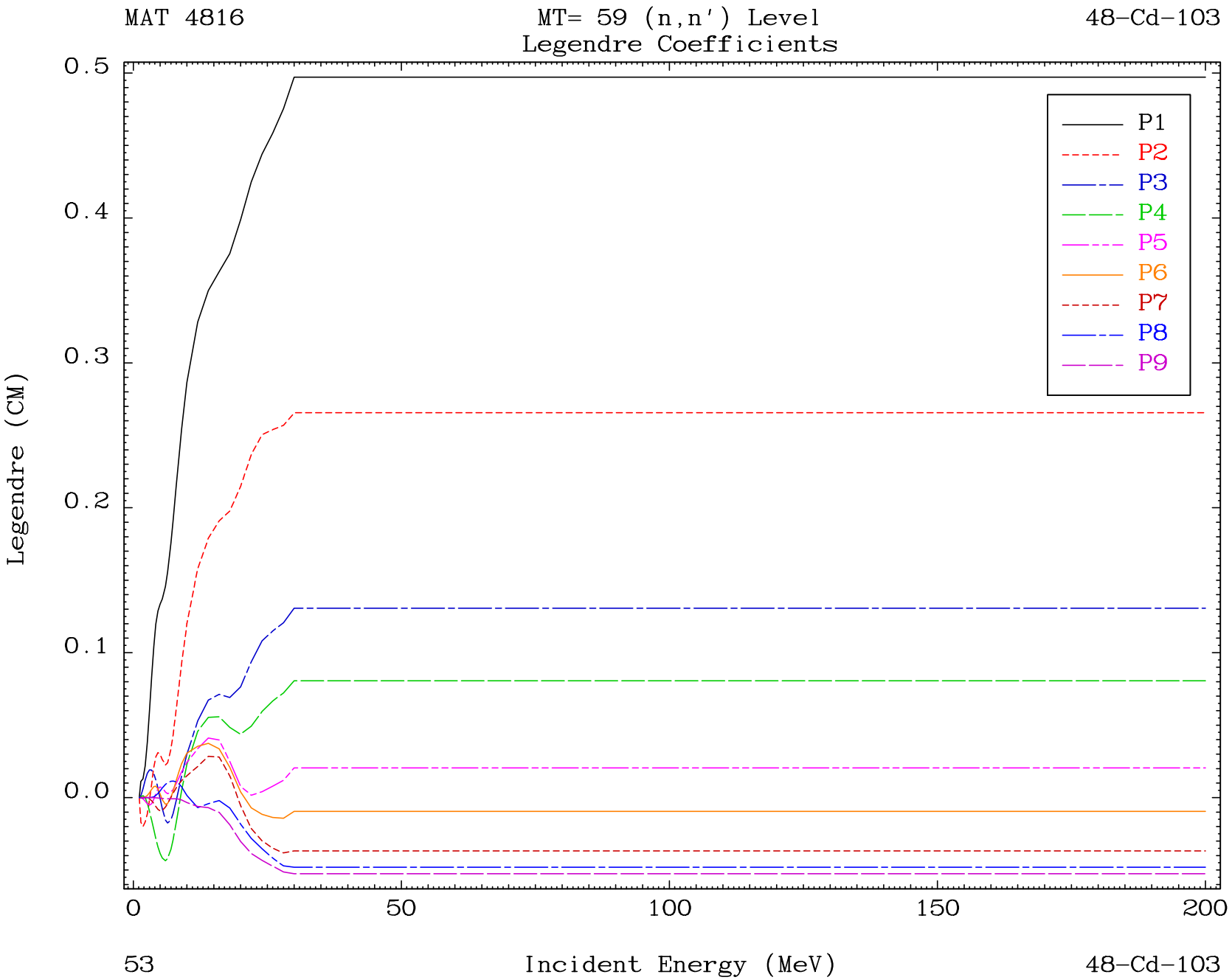

MAT 4816
MT= 57 (n,n') Level
Legendre Coefficients
48-Cd-103
X10-7
1.5
1.0
0.5
0.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
48
Incident Energy (MeV)
48-Cd-103

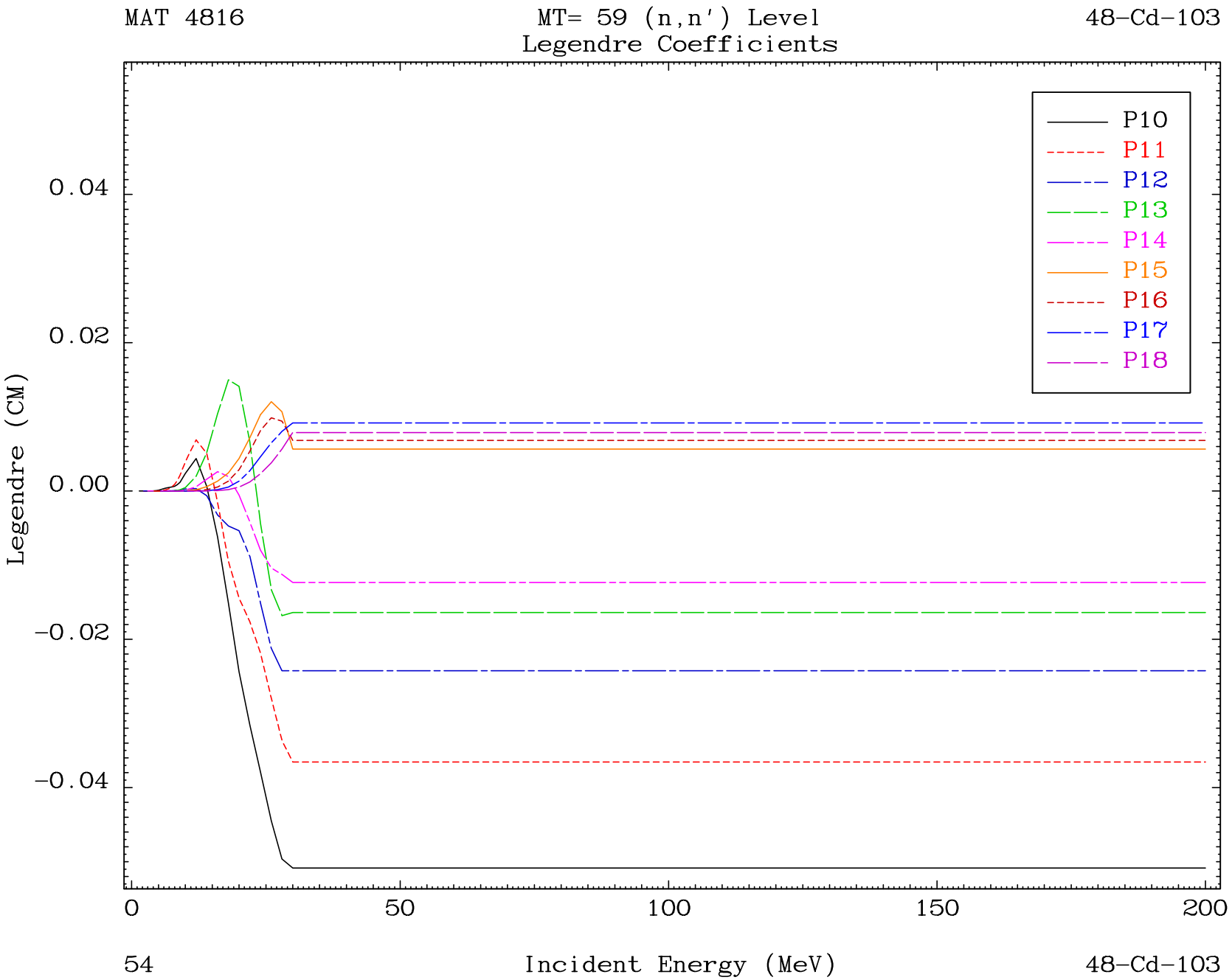

MAT 4816
MT= 58 (n,n') Level
Legendre Coefficients
48-Cd-103
0.5
0.4
0.3
0.2
0.1
0.0
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
49
Incident Energy (MeV)
48-Cd-103

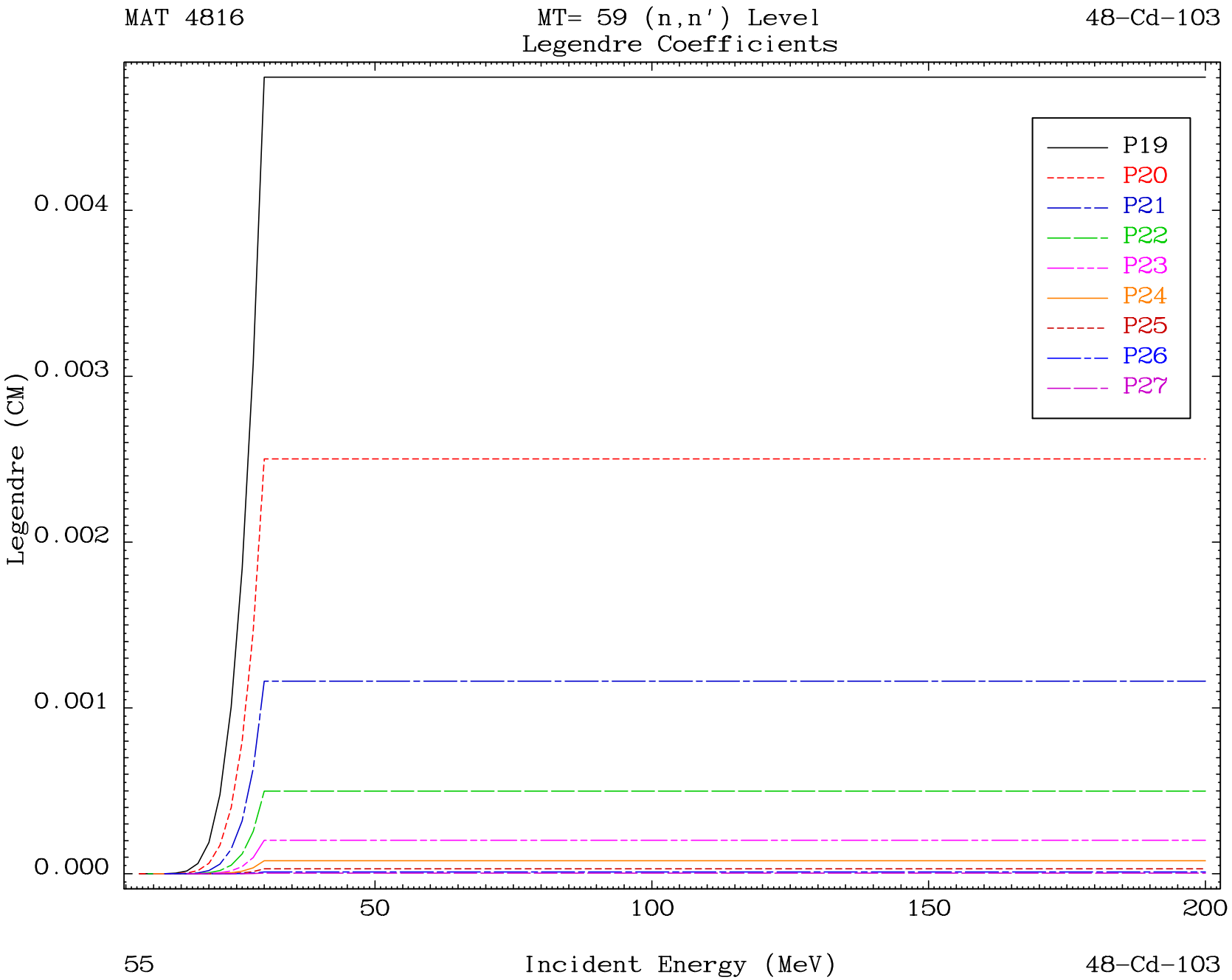

MAT 4816
MT= 58 (n,n') Level
Legendre Coefficients
48-Cd-103
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.04
0.02
0.00
-0.02
-0.04
Legendre (CM)
0
50
100
150
200
50
Incident Energy (MeV)
48-Cd-103

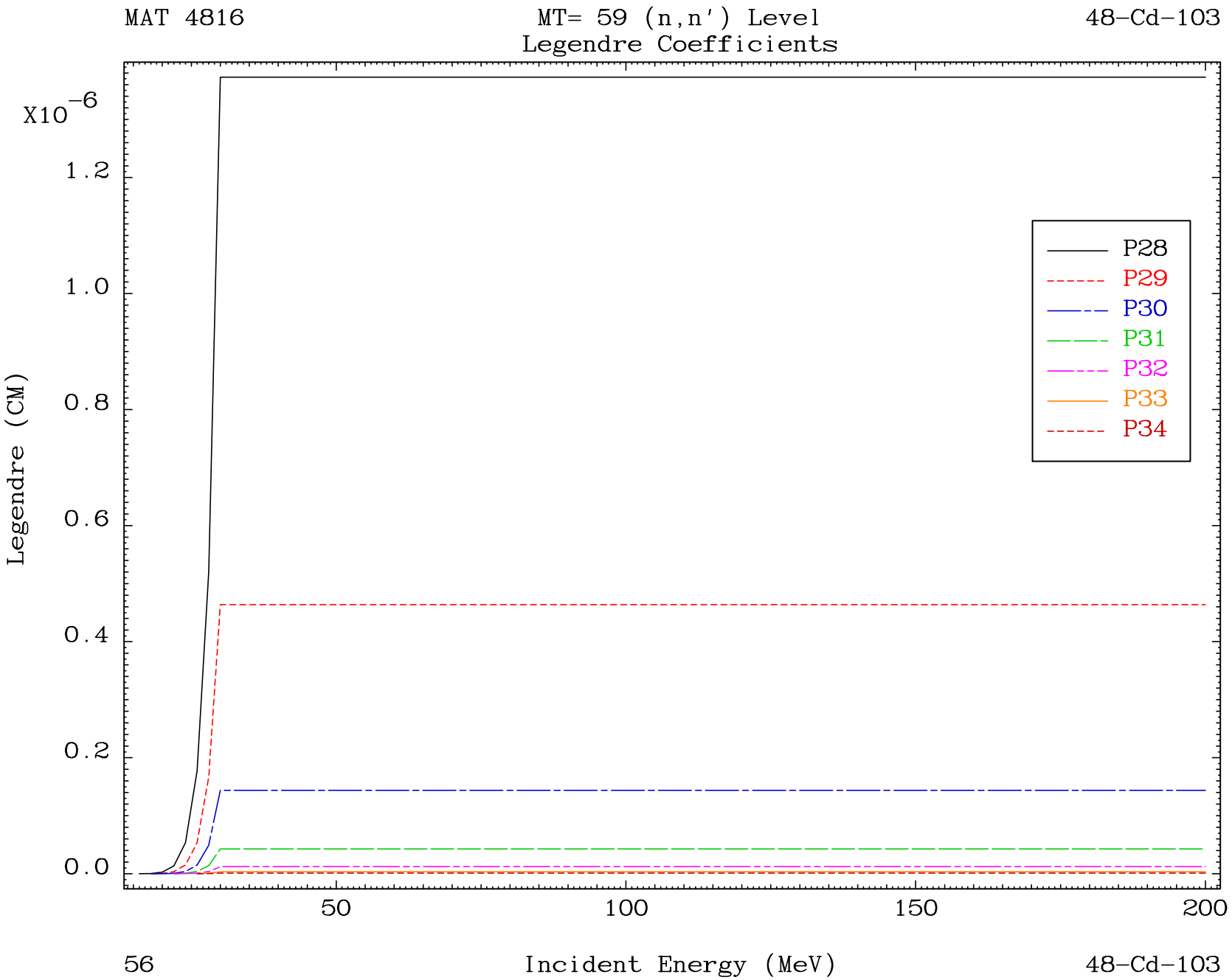

MAT 4816
MT= 58 (n,n') Level
Legendre Coefficients
48-Cd-103
P19
P20
P21
P22
P23
P24
P25
P26
P27
0.004
0.003
0.002
0.001
0.000
Legendre (CM)
50
100
150
200
51
Incident Energy (MeV)
48-Cd-103

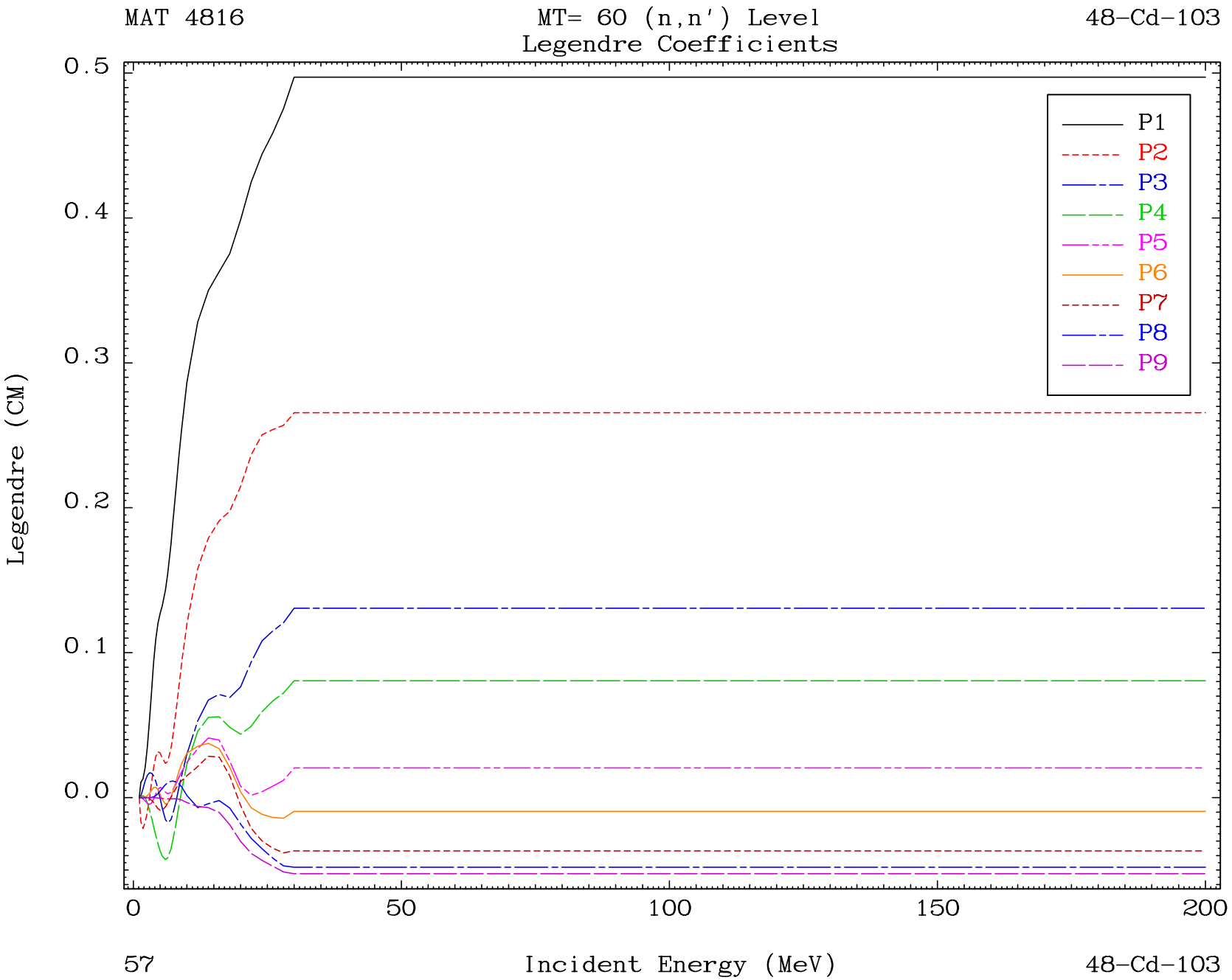

MAT 4816
MT= 58 (n,n') Level
Legendre Coefficients
48-Cd-103
X10^-6
1.2
0.8
0.4
0.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
52
Incident Energy (MeV)
48-Cd-103

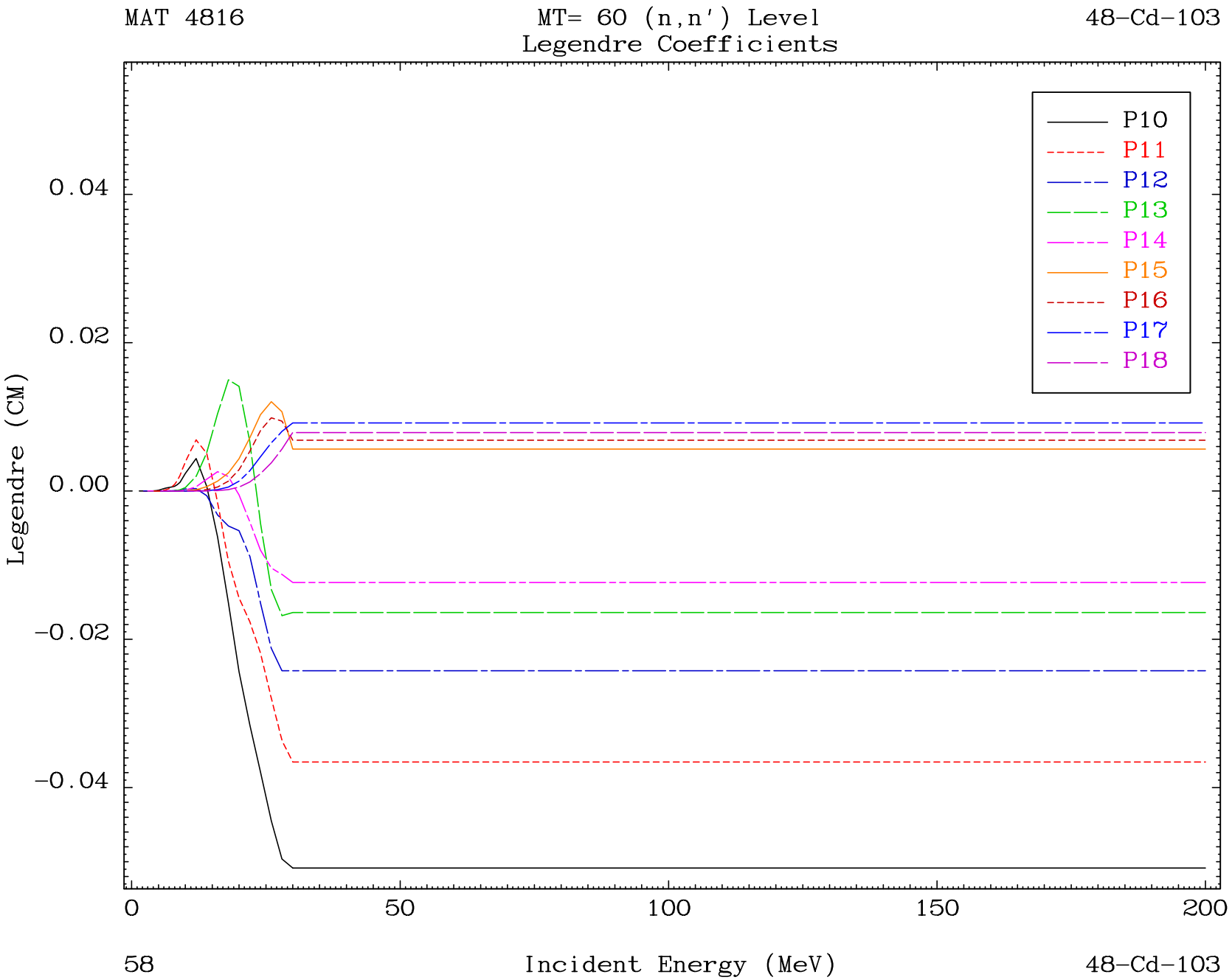

MAT 4816
MT= 59 (n,n') Level
Legendre Coefficients
48-Cd-103
Legendre (CM)
0.5
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
53
Incident Energy (MeV)
48-Cd-103

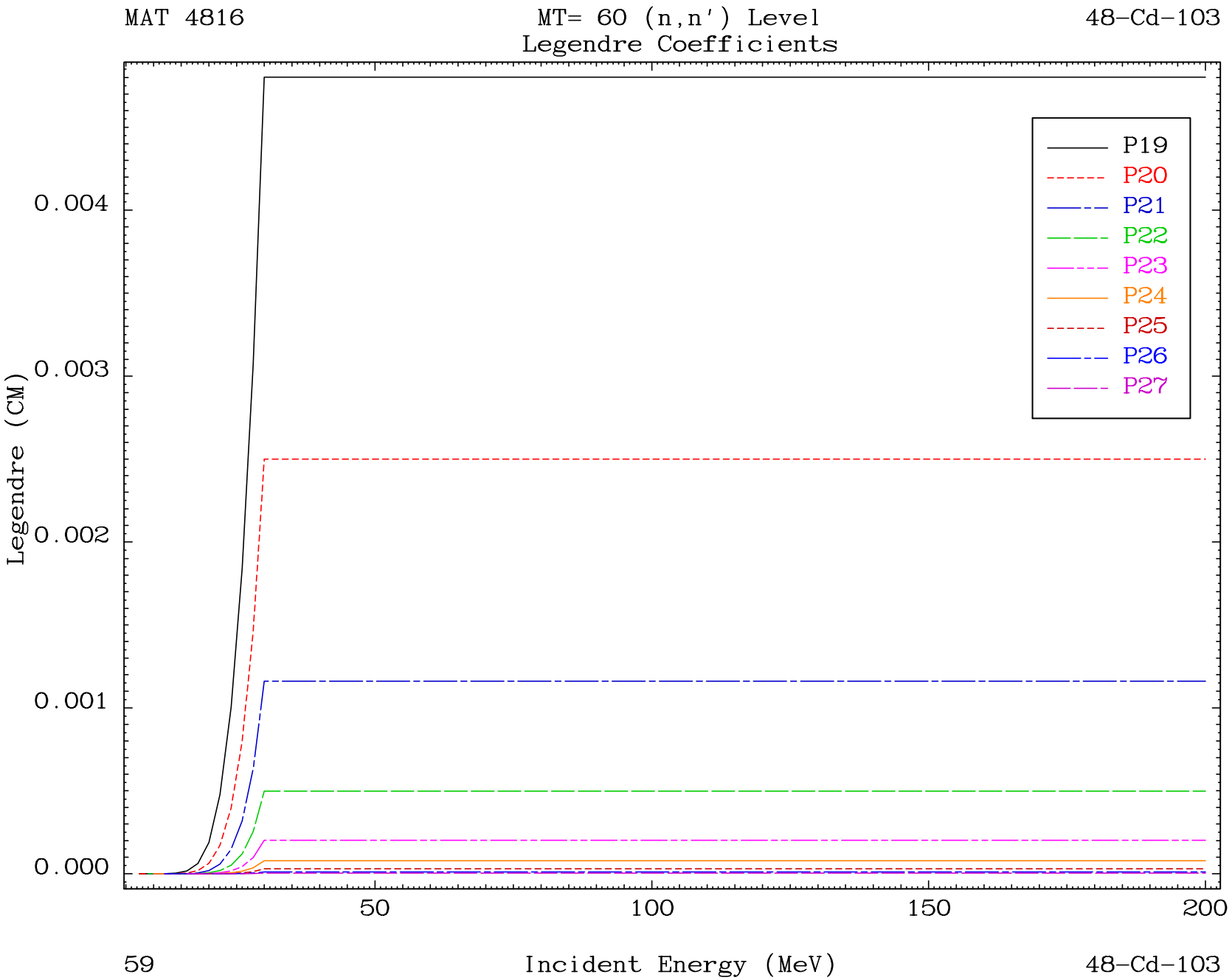

MAT 4816
MT= 59 (n,n') Level
Legendre Coefficients
48-Cd-103
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.04
0.02
0.00
-0.02
-0.04
Legendre (CM)
0
50
100
150
200
54
Incident Energy (MeV)
48-Cd-103

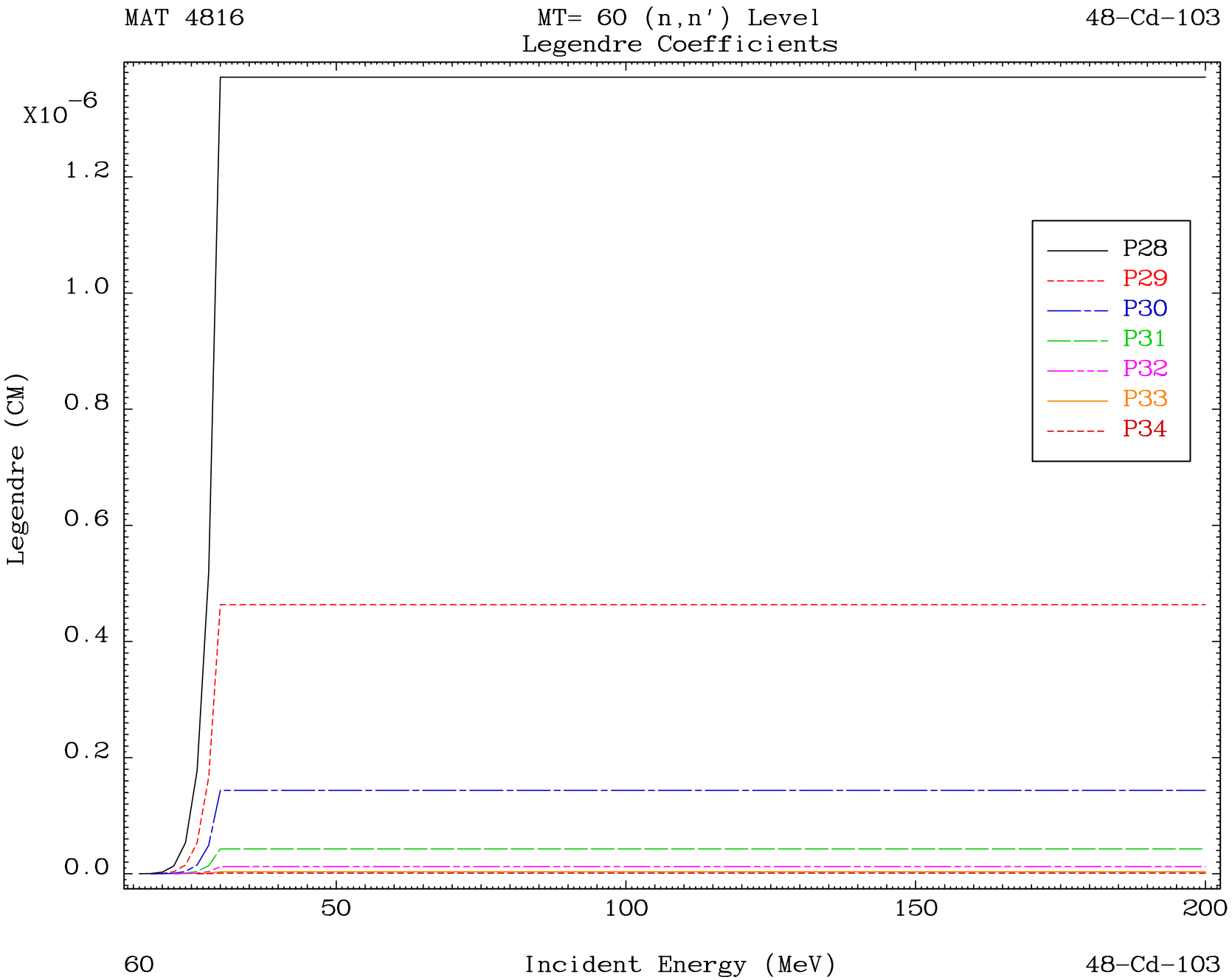

MAT 4816
MT= 59 (n,n') Level
Legendre Coefficients
48-Cd-103
P19
P20
P21
P22
P23
P24
P25
P26
P27
0.004
0.003
0.002
0.001
0.000
Legendre (CM)
50
100
150
200
55
Incident Energy (MeV)
48-Cd-103

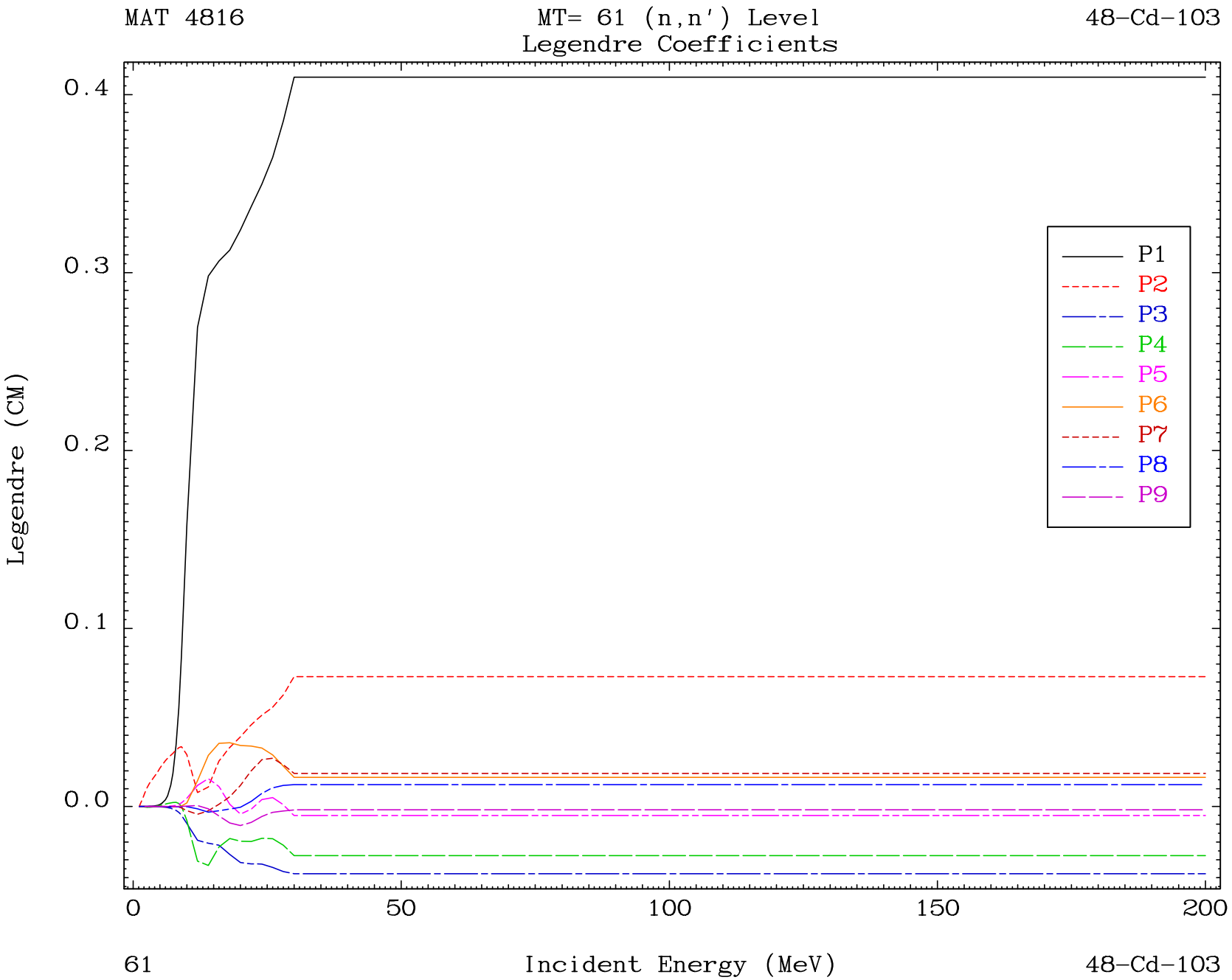

MAT 4816
MT= 59 (n,n') Level
Legendre Coefficients
48-Cd-103
X10^-6
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
56
Incident Energy (MeV)
48-Cd-103

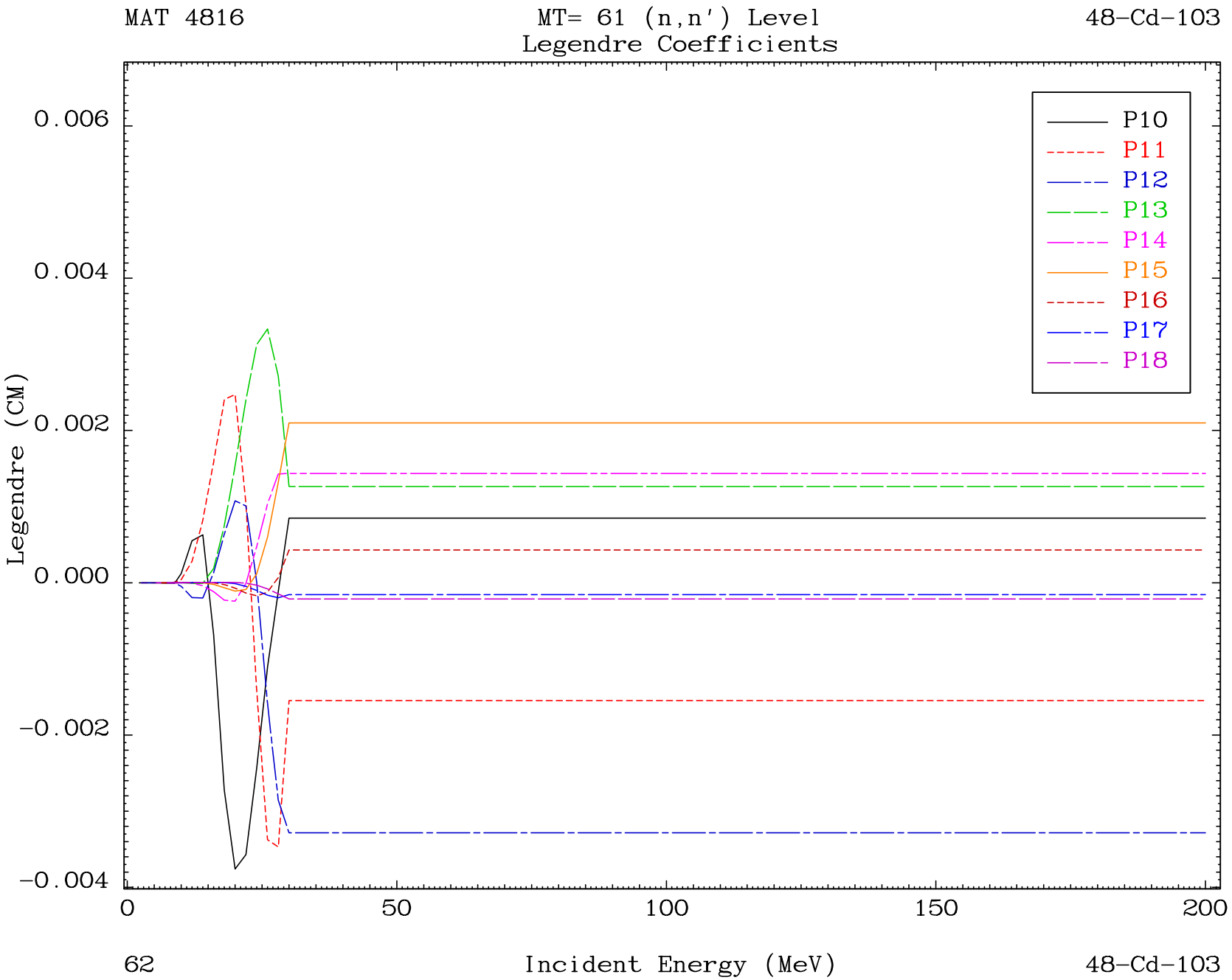

MAT 4816
MT= 60 (n,n') Level
Legendre Coefficients
48-Cd-103
Legendre (CM)
0.5
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
57
Incident Energy (MeV)
48-Cd-103
P1
P2
P3
P4
P5
P6
P7
P8
P9

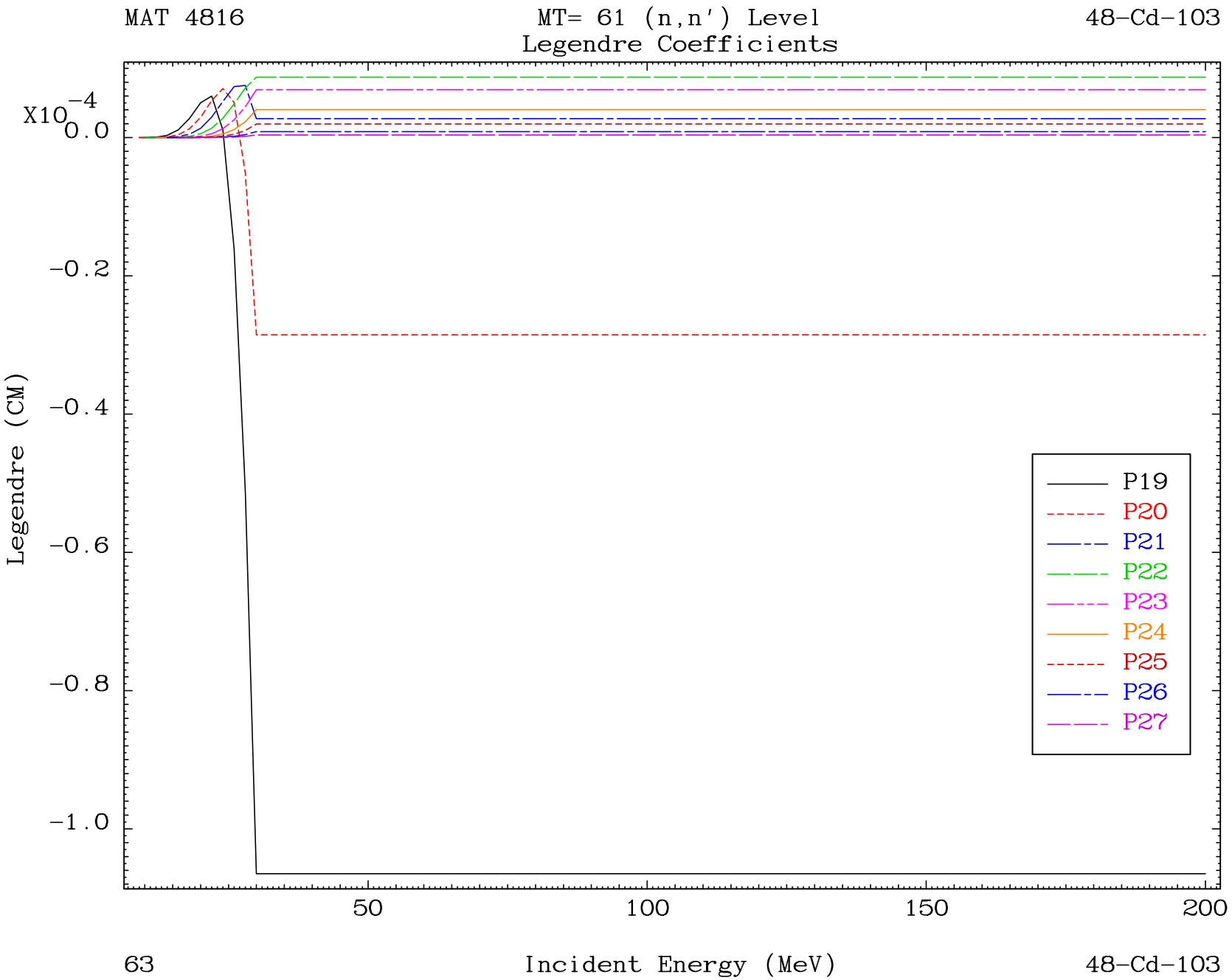

MAT 4816
MT= 60 (n,n') Level
Legendre Coefficients
48-Cd-103
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.04
0.02
0.00
-0.02
-0.04
Legendre (CM)
0
50
100
150
200
58
Incident Energy (MeV)
48-Cd-103

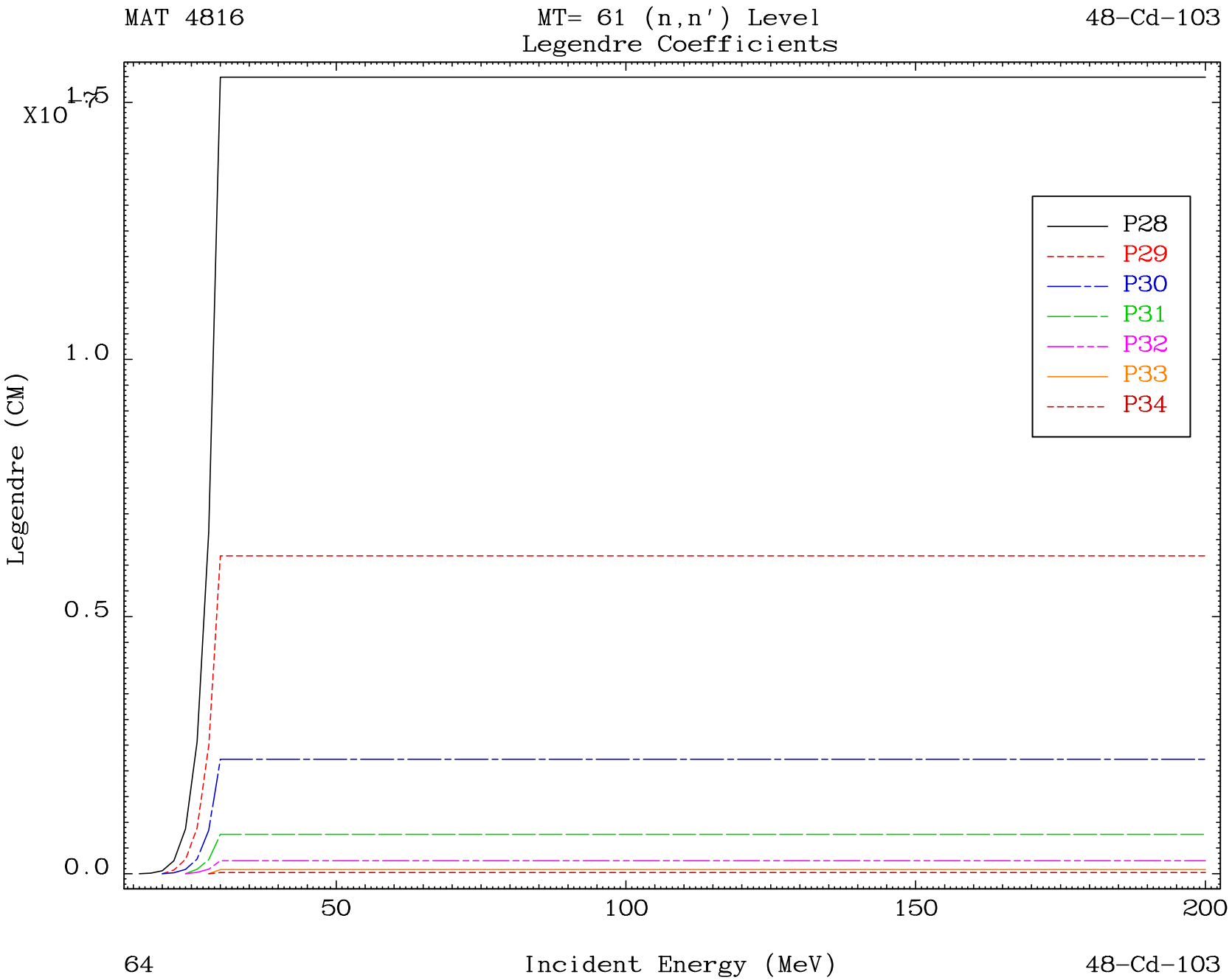

MAT 4816
MT= 60 (n,n') Level
Legendre Coefficients
48-Cd-103
P19
P20
P21
P22
P23
P24
P25
P26
P27
0.004
0.003
0.002
0.001
0.000
Legendre (CM)
50
100
150
200
59
Incident Energy (MeV)
48-Cd-103

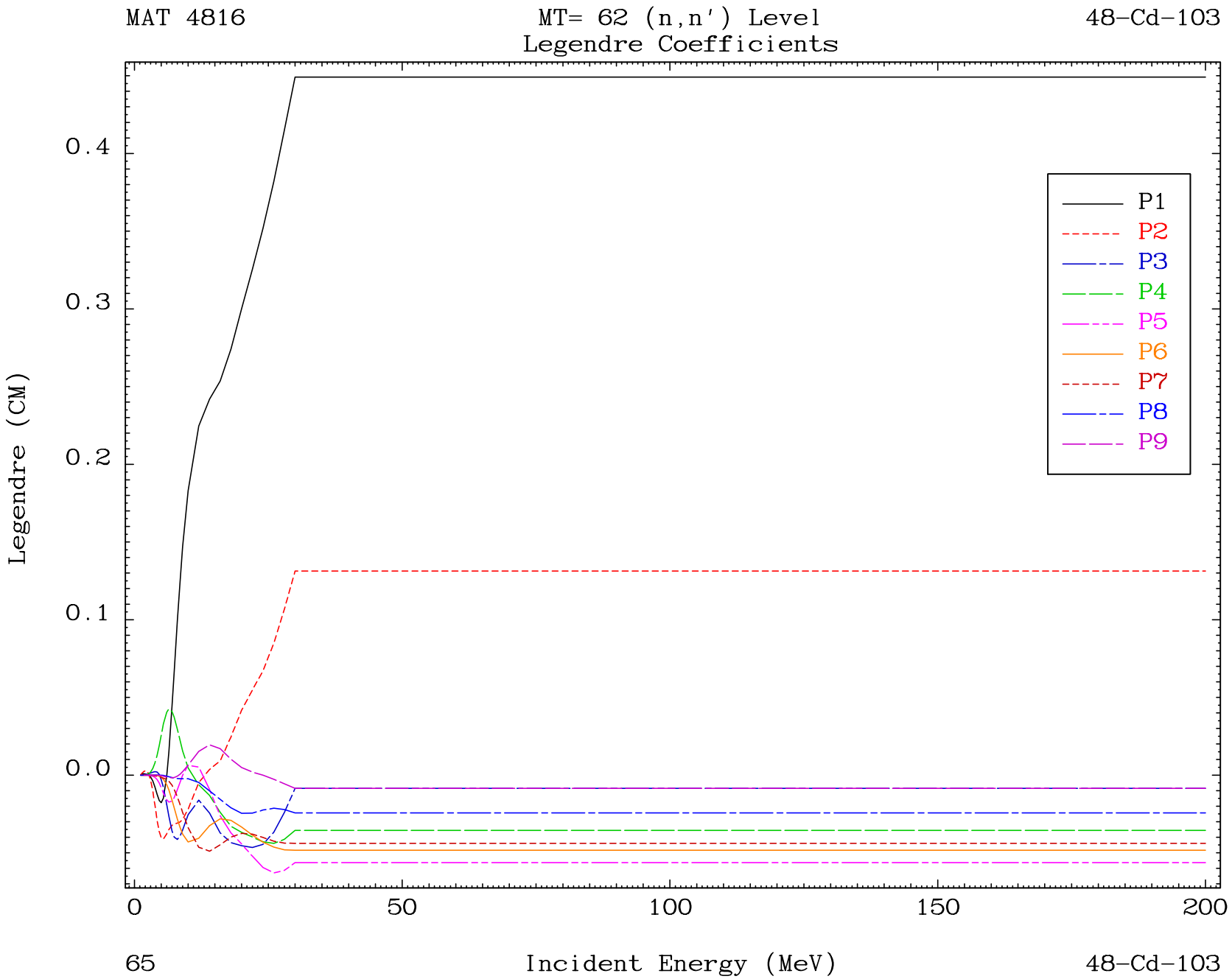

MAT 4816
MT= 60 (n,n') Level
Legendre Coefficients
48-Cd-103
X10^-6
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
60
Incident Energy (MeV)
48-Cd-103

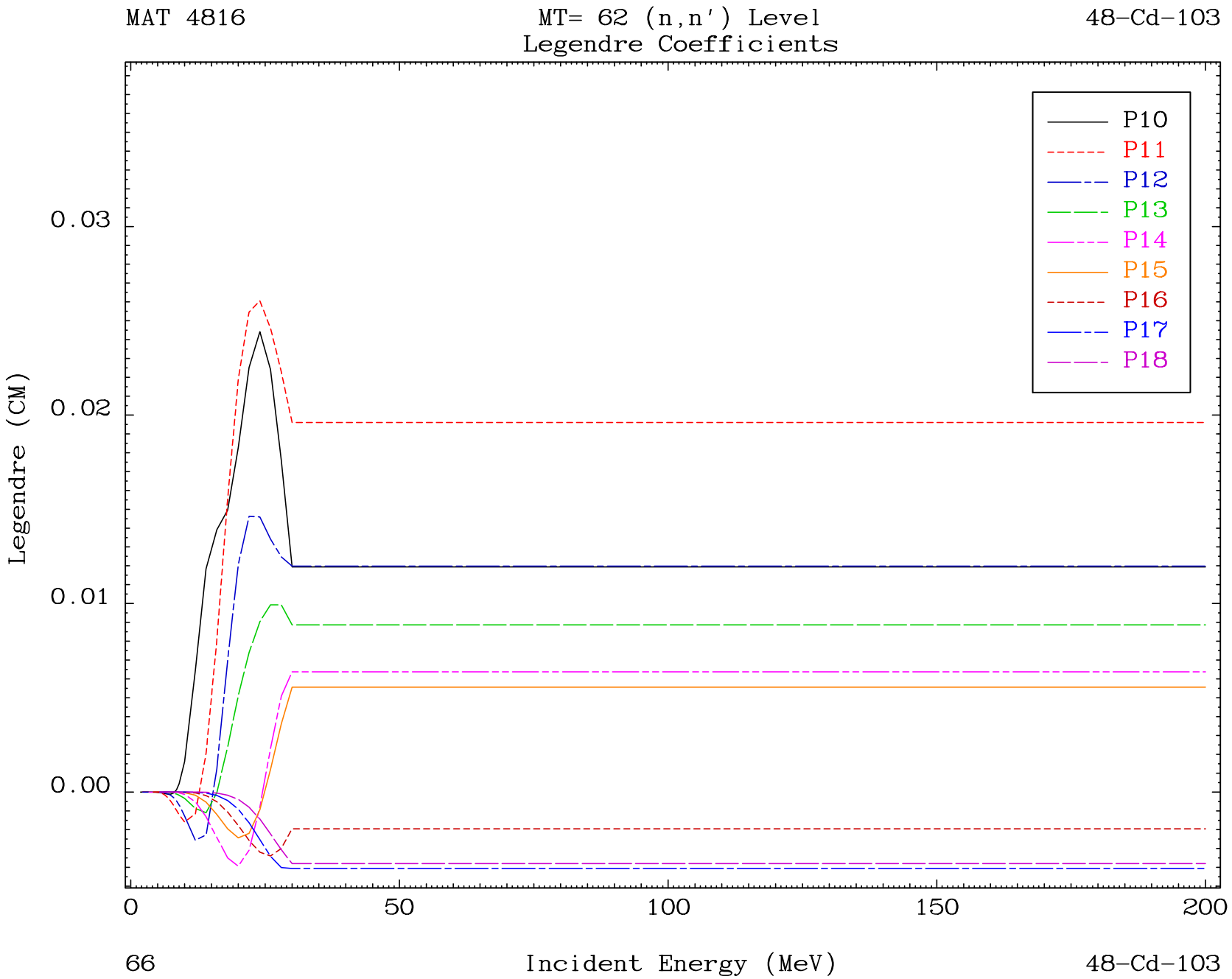

MAT 4816
MT= 61 (n,n') Level
Legendre Coefficients
48-Cd-103
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
61
Incident Energy (MeV)
48-Cd-103

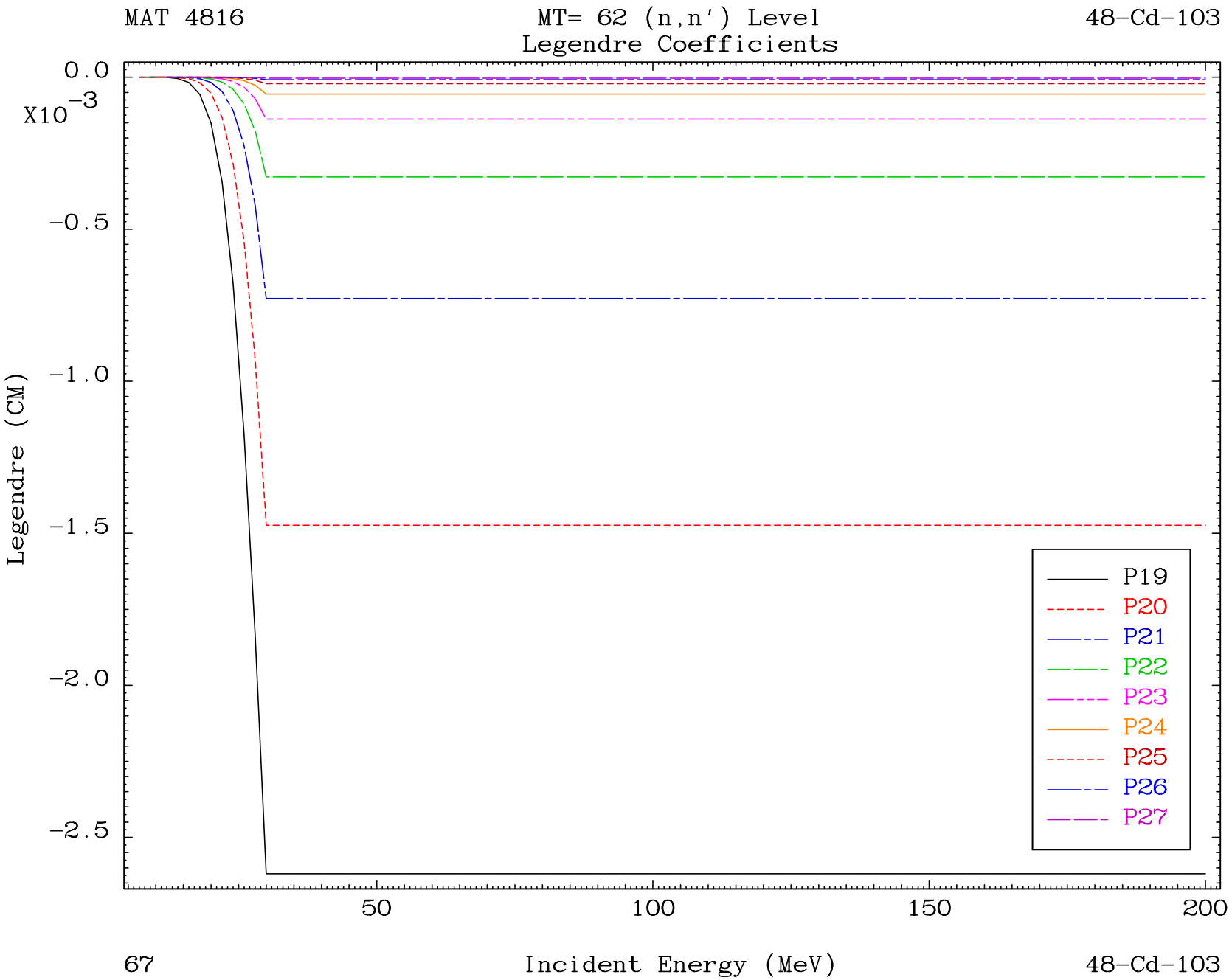

MAT 4816
MT= 61 (n,n') Level
Legendre Coefficients
48-Cd-103
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.006
0.004
0.002
0.000
-0.002
-0.004
Legendre (CM)
0
50
100
150
200
62
Incident Energy (MeV)
48-Cd-103

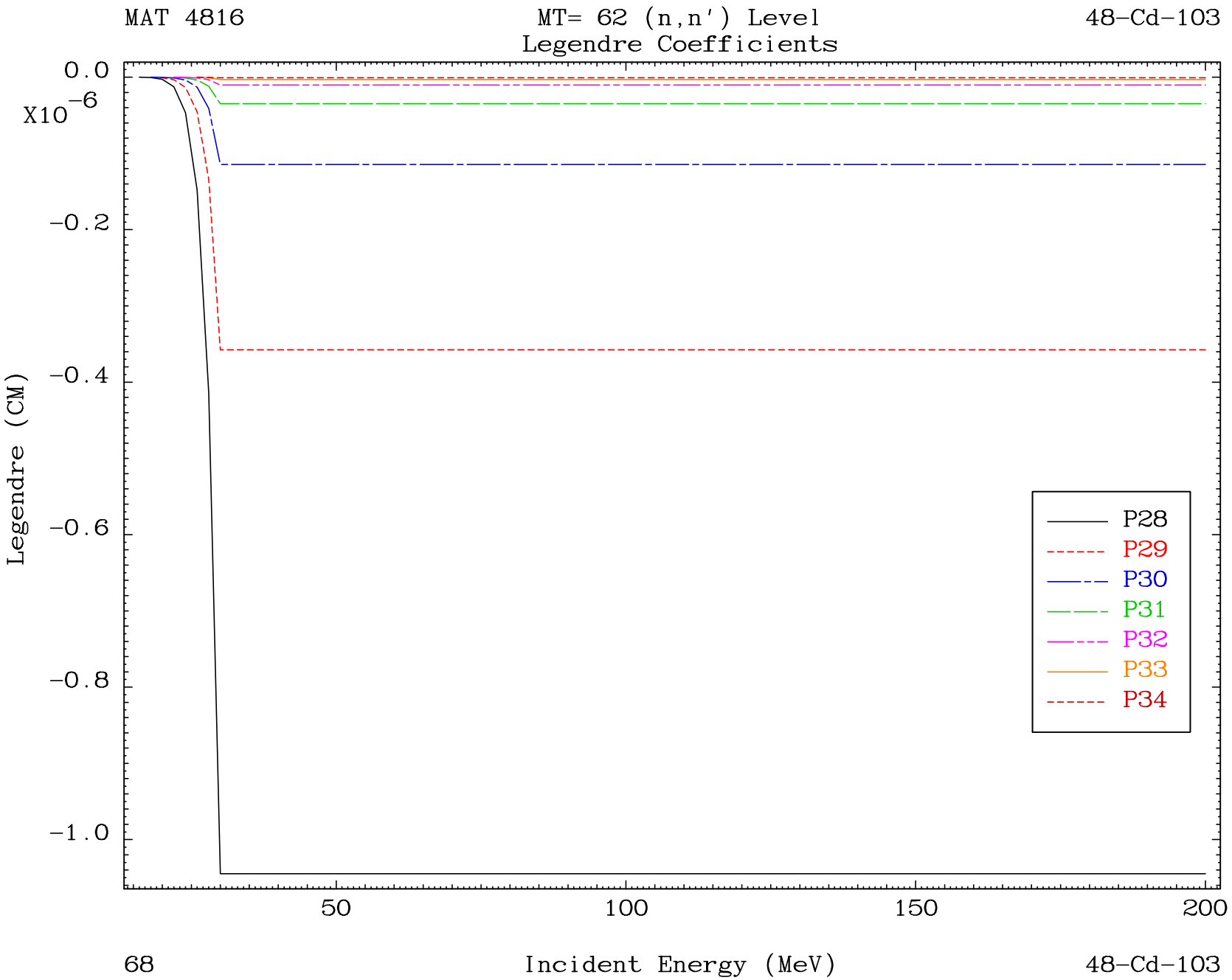

MAT 4816
MT= 61 (n,n') Level
Legendre Coefficients
48-Cd-103
X10^-4
0.0
-0.2
-0.4
-0.6
-0.8
-1.0
Legendre (CM)
50
100
150
200
63
Incident Energy (MeV)
48-Cd-103
P19
P20
P21
P22
P23
P24
P25
P26
P27

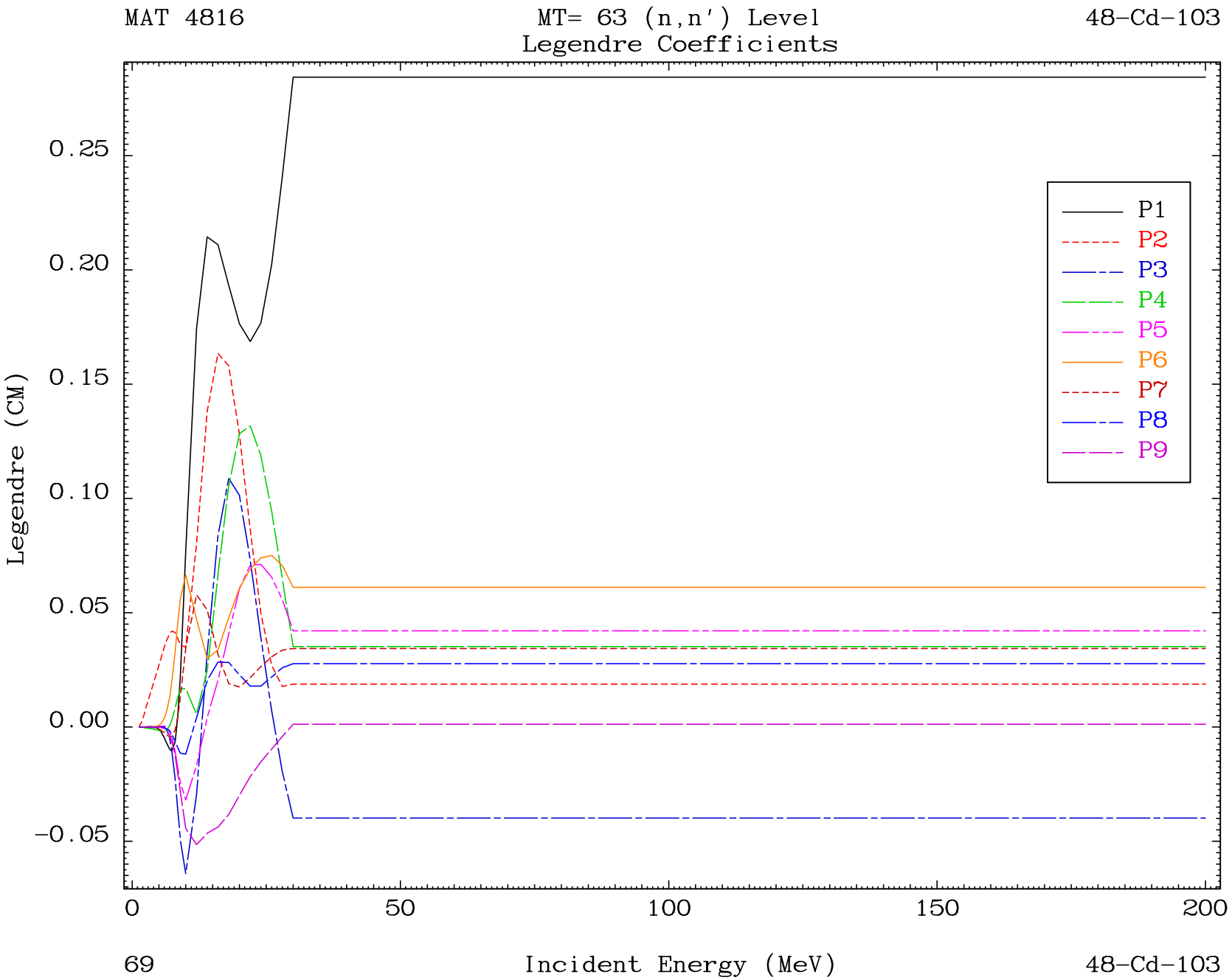

MAT 4816
MT= 61 (n,n') Level
Legendre Coefficients
48-Cd-103
X10-5
1.5
1.0
0.5
0.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
64
Incident Energy (MeV)
48-Cd-103

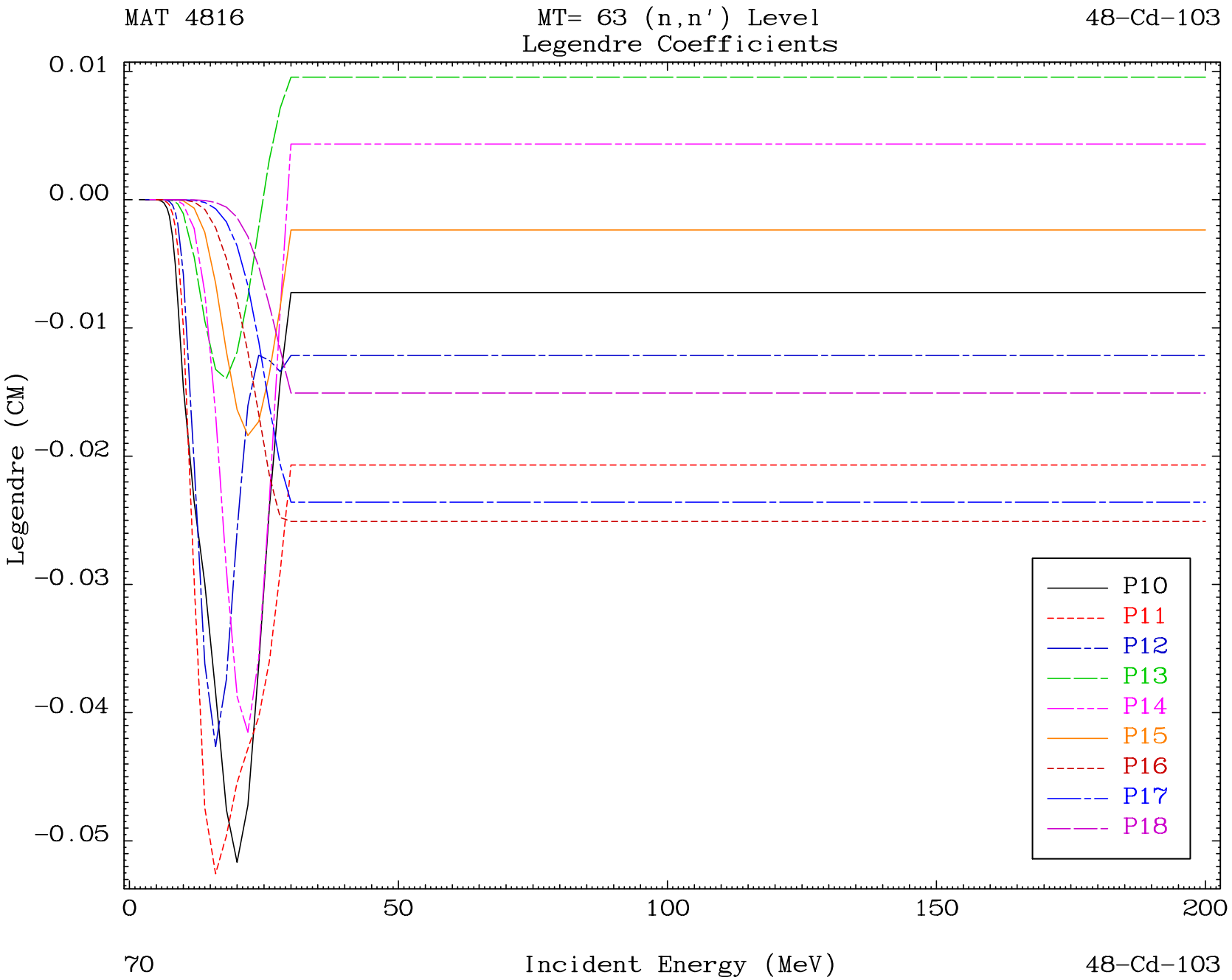

MAT 4816
MT= 62 (n,n') Level
Legendre Coefficients
48-Cd-103
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
65
Incident Energy (MeV)
48-Cd-103

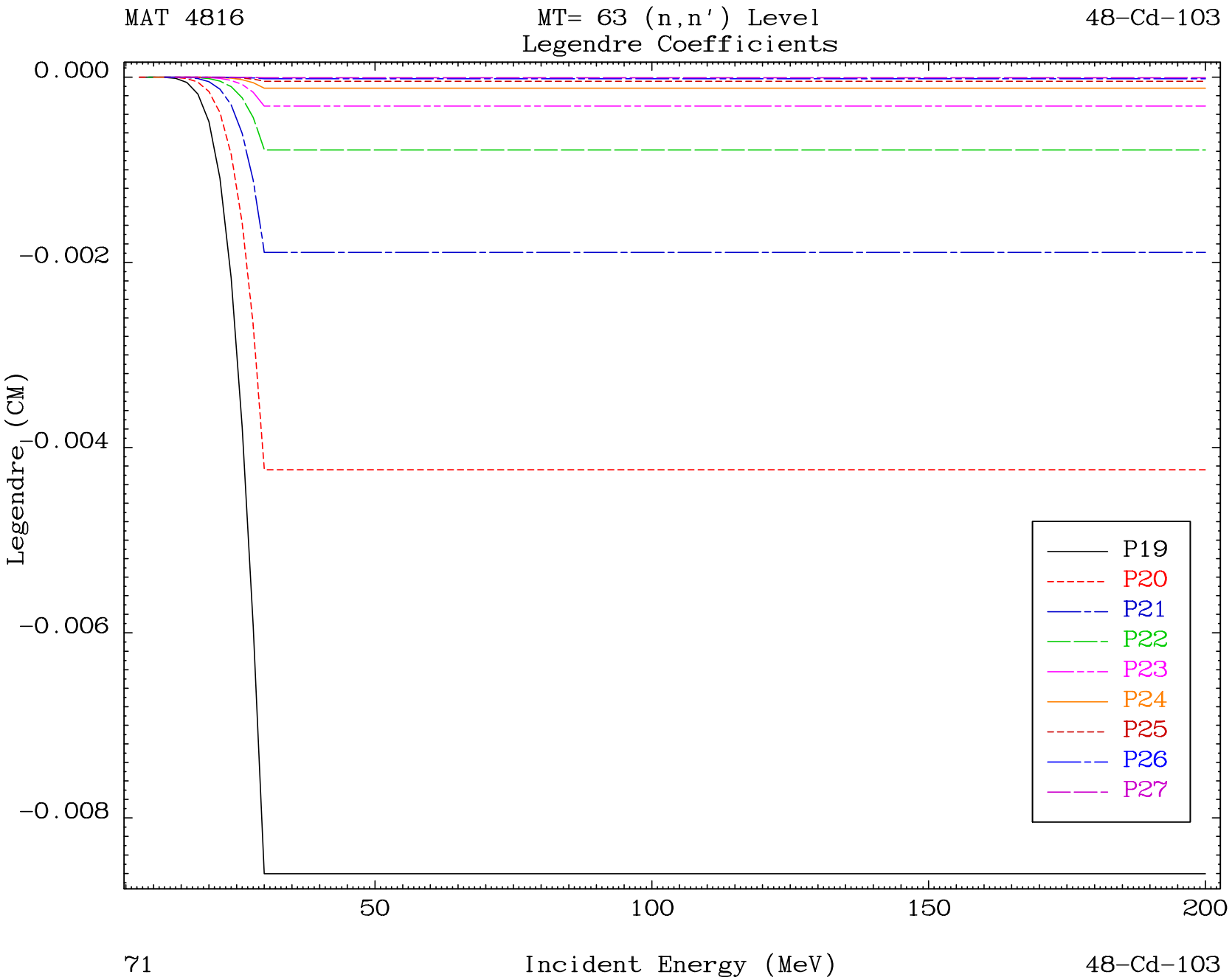

MAT 4816
MT= 62 (n,n') Level
Legendre Coefficients
48-Cd-103
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.03
0.02
0.01
0.00
Legendre (CM)
0
50
100
150
200
66
Incident Energy (MeV)
48-Cd-103

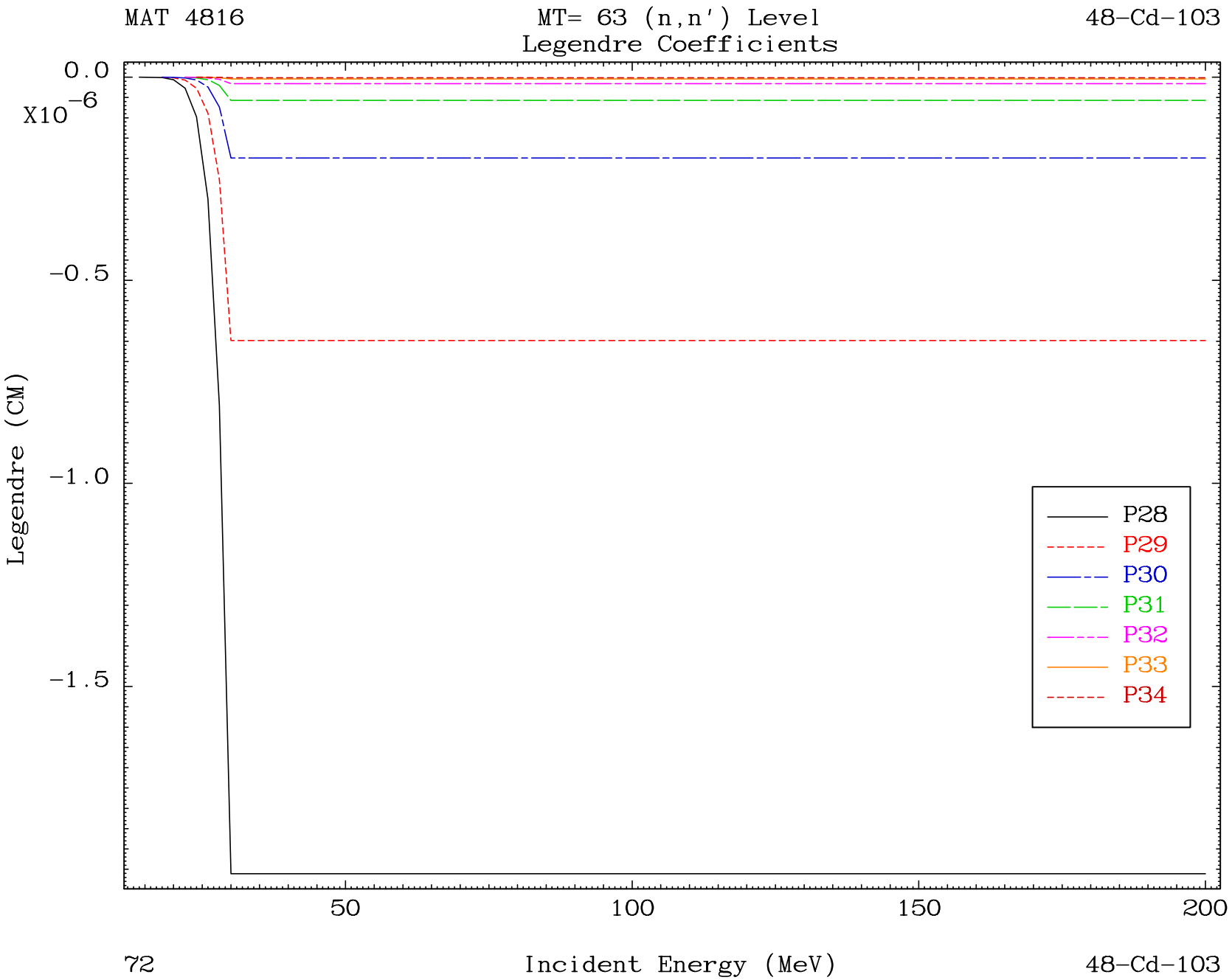

MAT 4816
MT= 62 (n,n') Level
Legendre Coefficients
48-Cd-103
0.0
X10^-3
-0.5
-1.0
-1.5
-2.0
-2.5
Legendre (CM)
50
100
150
200
67
Incident Energy (MeV)
48-Cd-103
P19
P20
P21
P22
P23
P24
P25
P26
P27

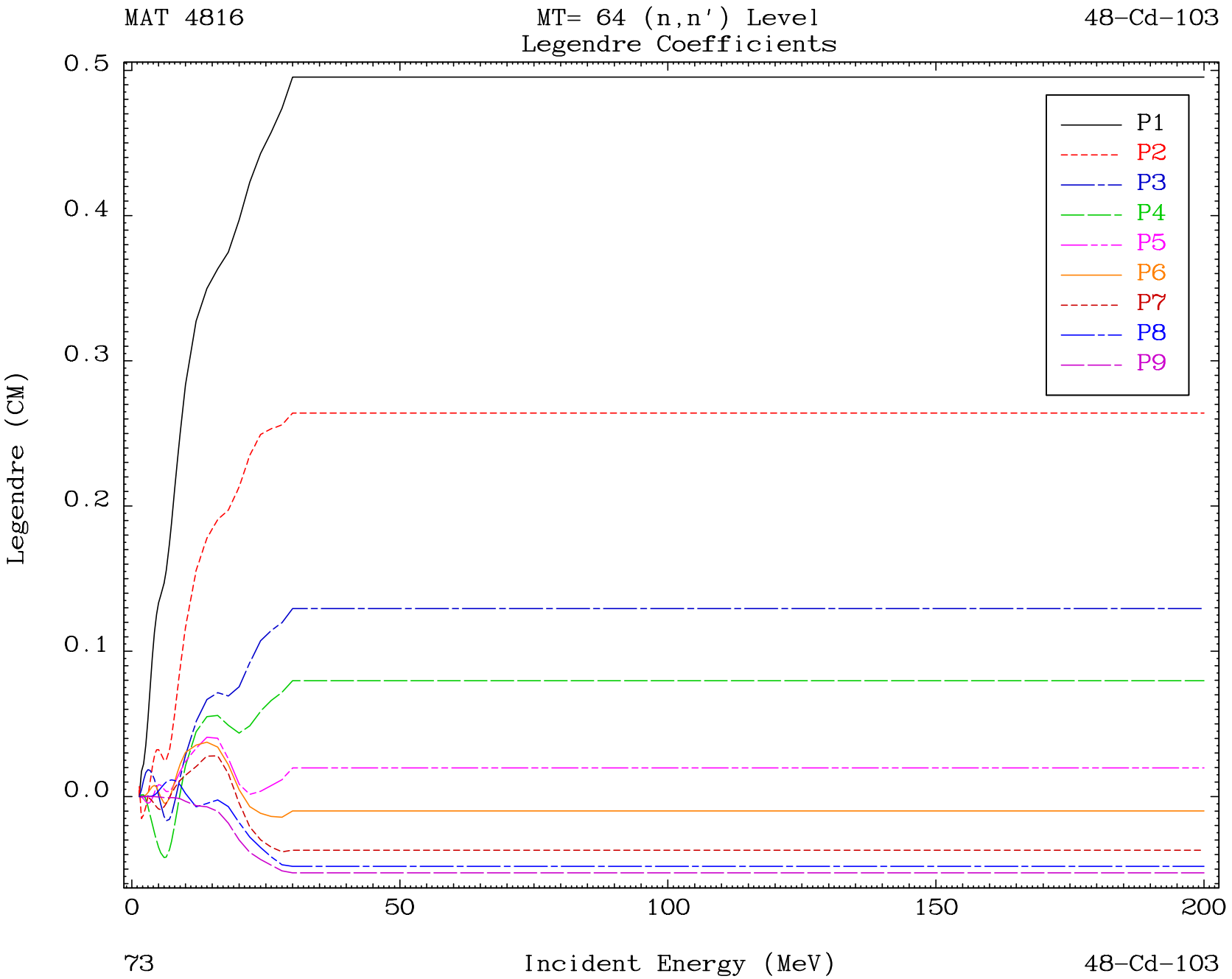

MAT 4816
MT= 62 (n,n') Level
Legendre Coefficients
48-Cd-103
0.0
X10^-6
-0.2
-0.4
-0.6
-0.8
-1.0
Legendre (CM)
50
100
150
200
68
Incident Energy (MeV)
48-Cd-103
P28
P29
P30
P31
P32
P33
P34

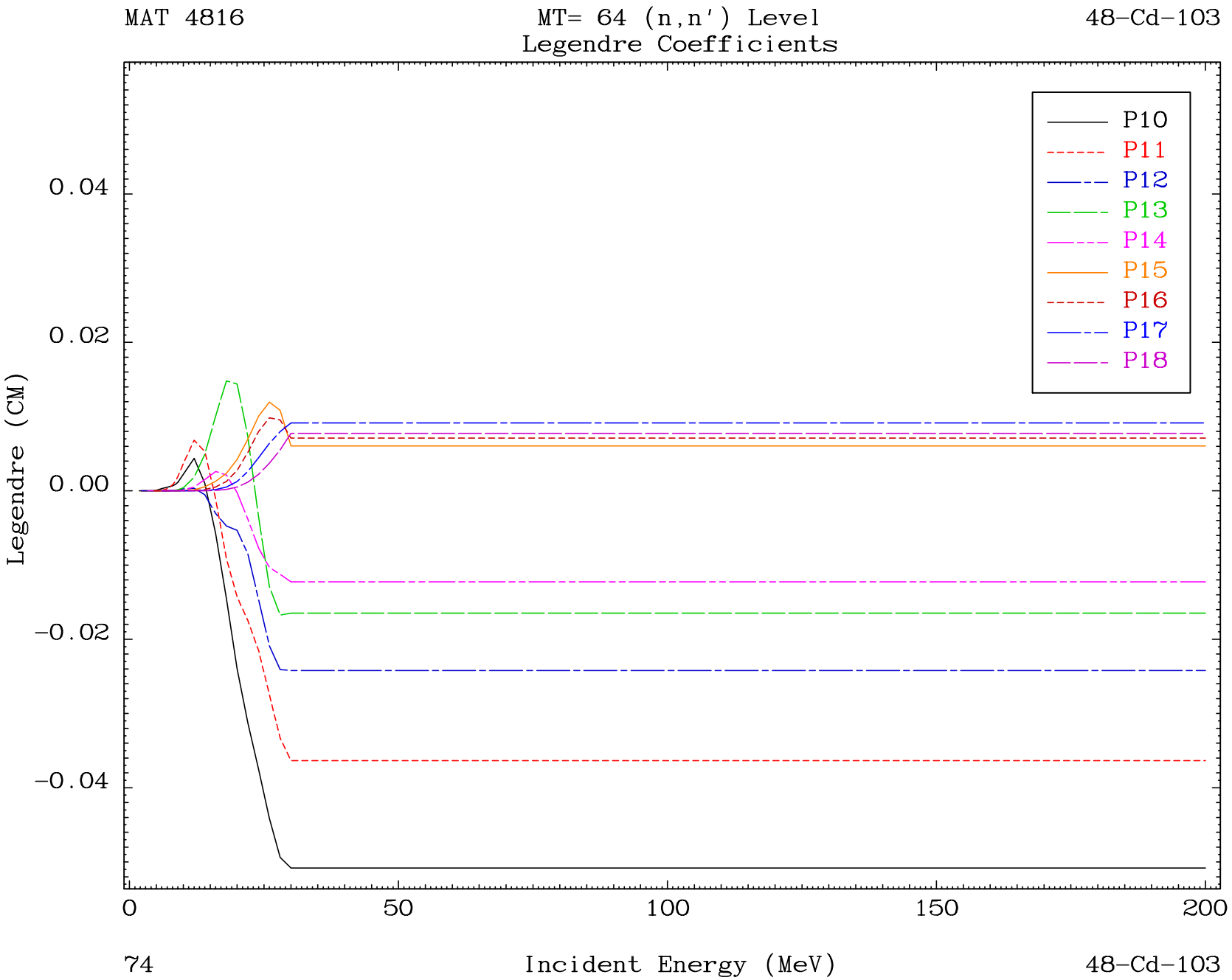

MAT 4816
MT= 63 (n,n') Level
Legendre Coefficients
48-Cd-103
Legendre (CM)
0.25
0.20
0.15
0.10
0.05
0.00
-0.05
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
69
Incident Energy (MeV)
48-Cd-103

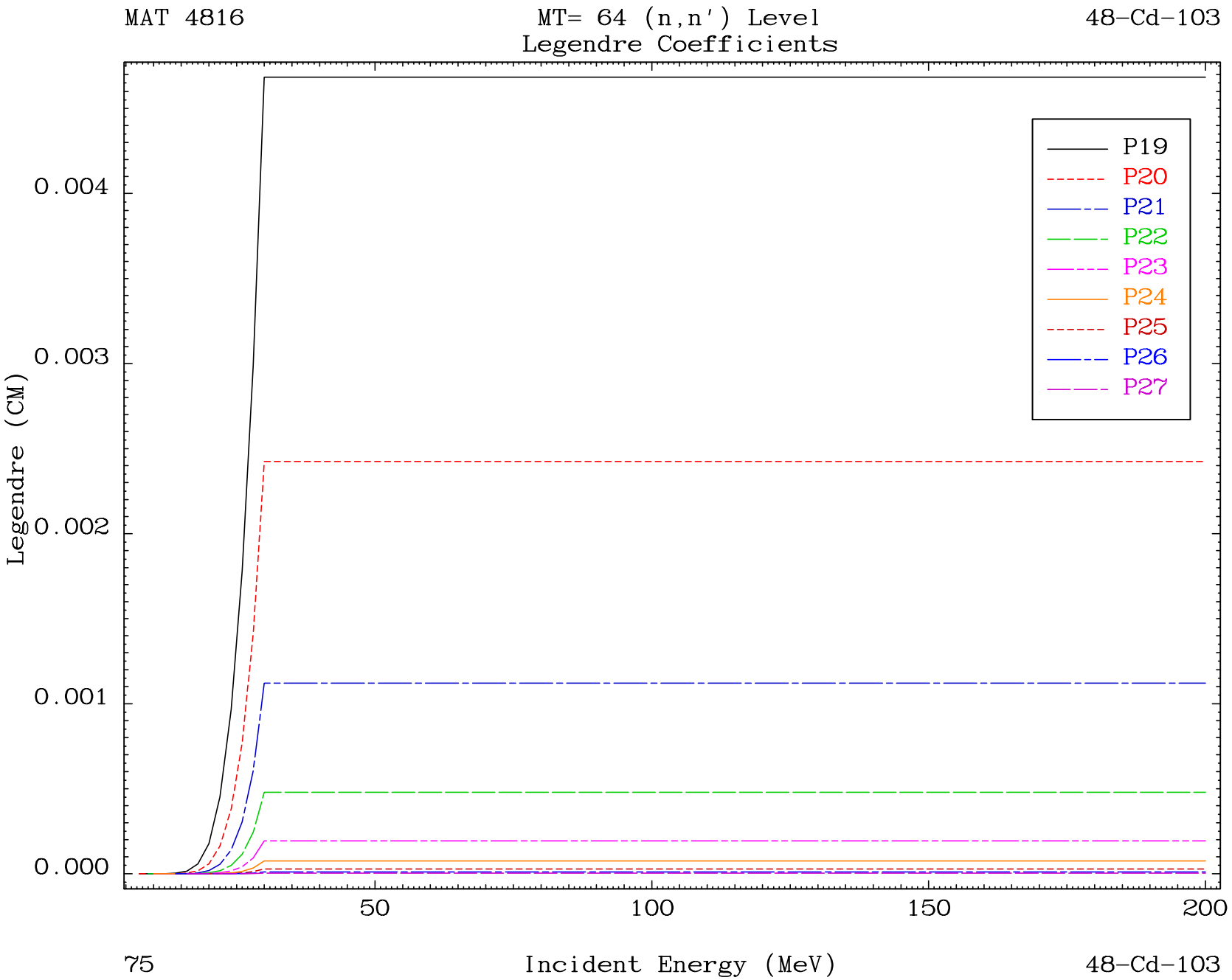

MAT 4816
MT= 63 (n,n') Level
Legendre Coefficients
48-Cd-103
0.01
0.00
-0.01
-0.02
-0.03
-0.04
-0.05
Legendre (CM)
0
50
100
150
200
70
Incident Energy (MeV)
48-Cd-103
P10
P11
P12
P13
P14
P15
P16
P17
P18

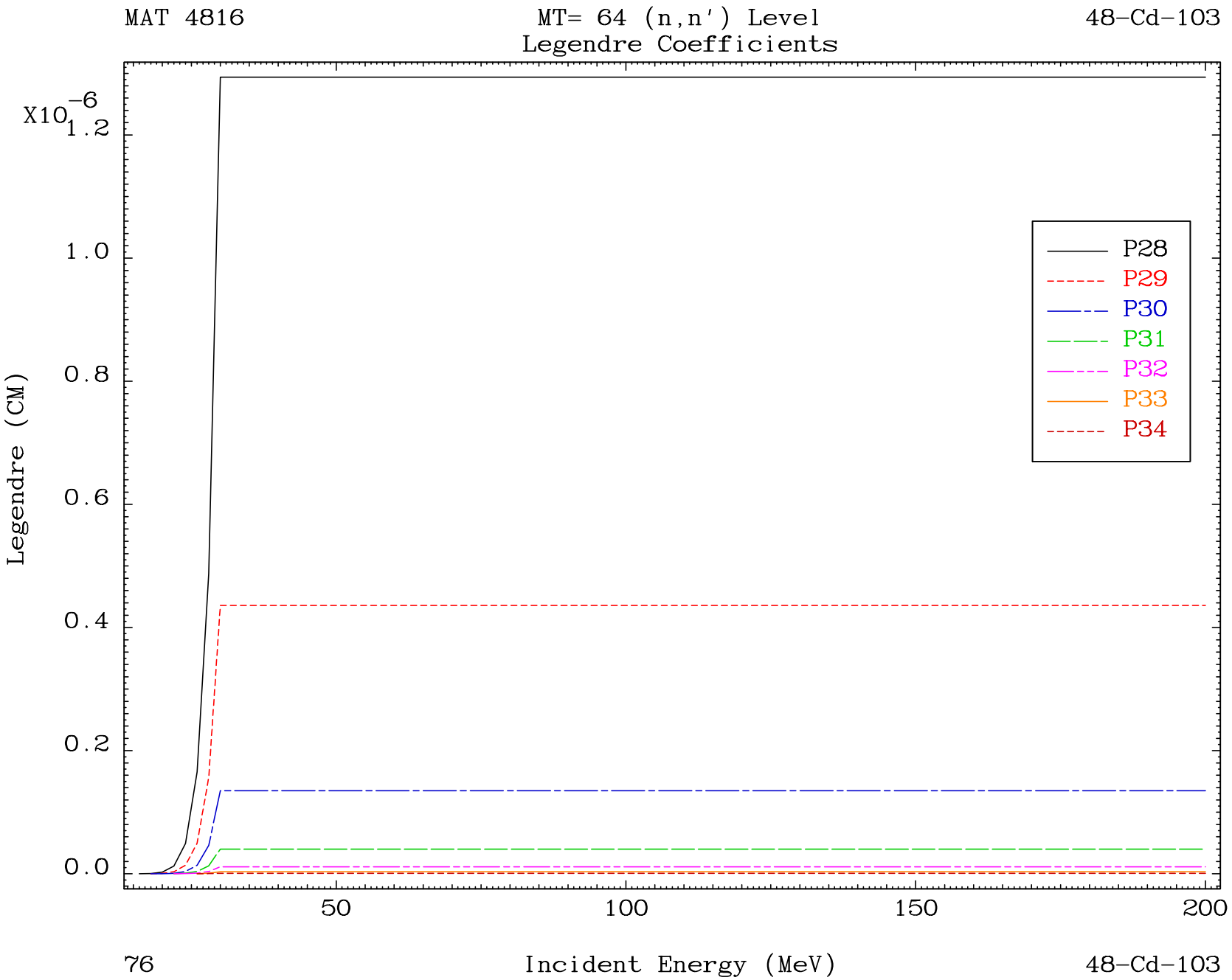

MAT 4816
MT= 63 (n,n') Level
Legendre Coefficients
48-Cd-103
0.000
-0.002
-0.004
-0.006
-0.008
Legendre$_l$ (CM)
50
100
150
200
71
Incident Energy (MeV)
48-Cd-103
P19
P20
P21
P22
P23
P24
P25
P26
P27

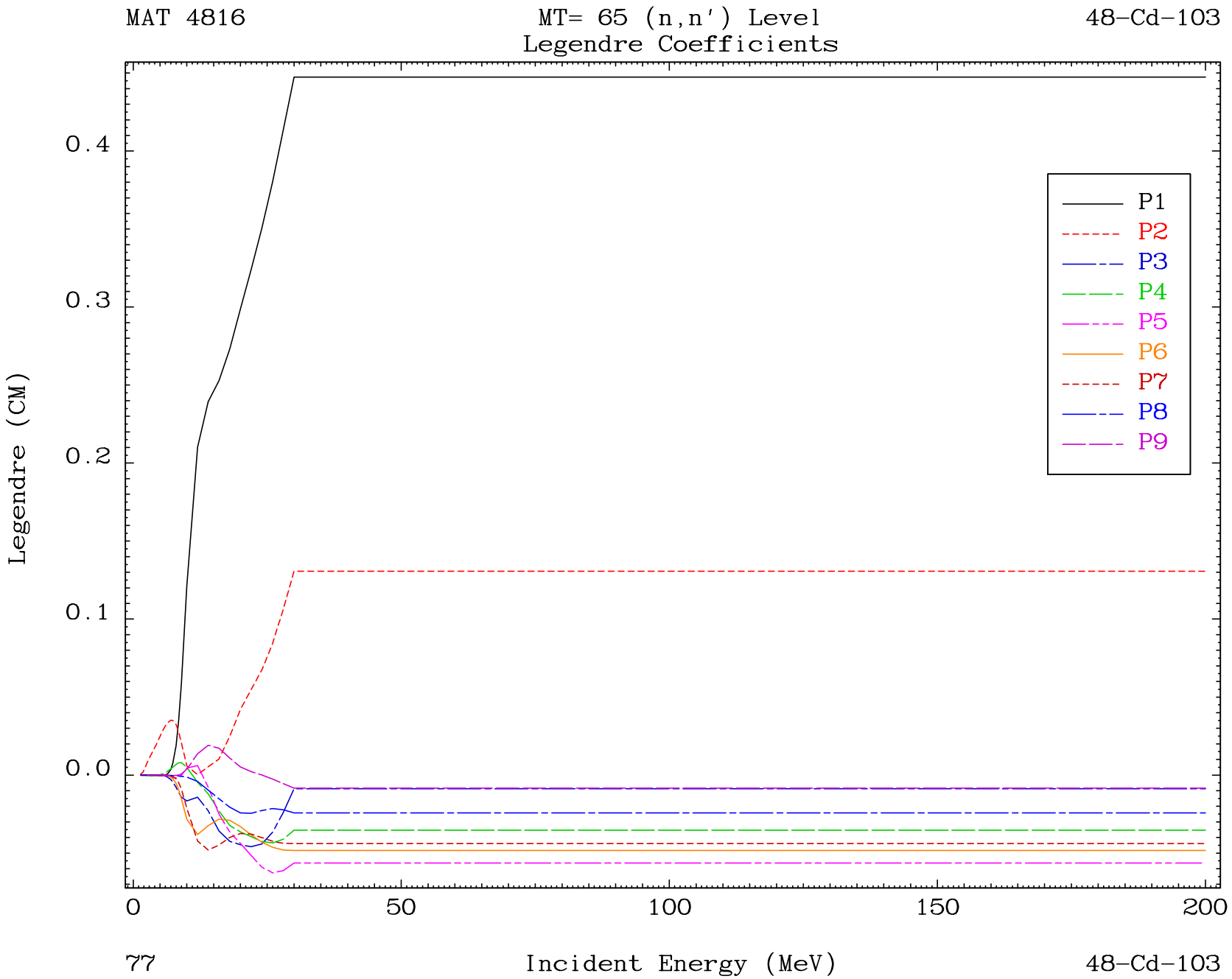

MAT 4816
MT= 63 (n,n') Level
Legendre Coefficients
48-Cd-103
0.0
X10−6
−0.5
−1.0
−1.5
Legendre (CM)
50
100
150
200
72
Incident Energy (MeV)
48-Cd-103
P28
P29
P30
P31
P32
P33
P34

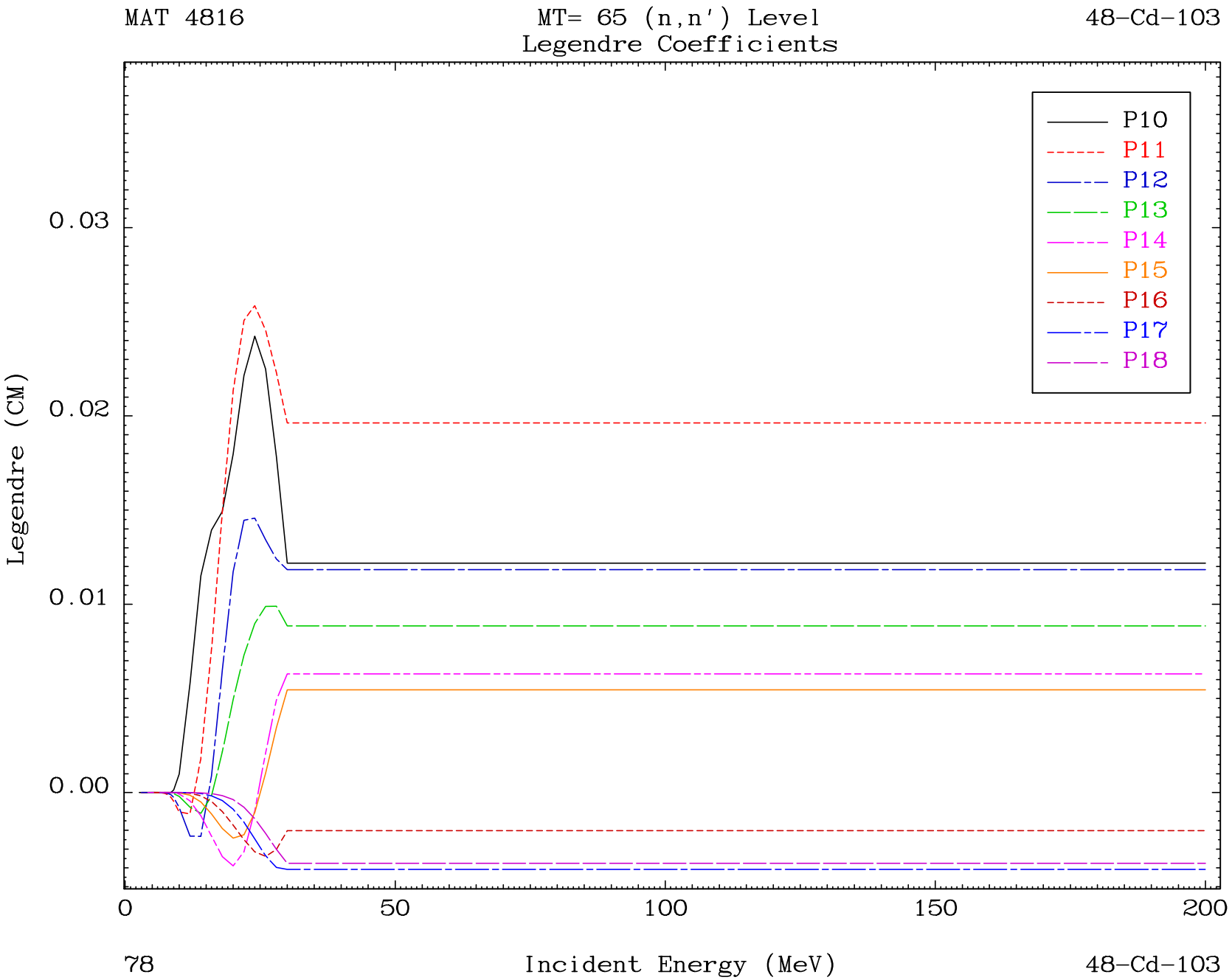

MAT 4816
MT= 64 (n,n') Level
Legendre Coefficients
48-Cd-103
Legendre (CM)
0.5
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
73
Incident Energy (MeV)
48-Cd-103

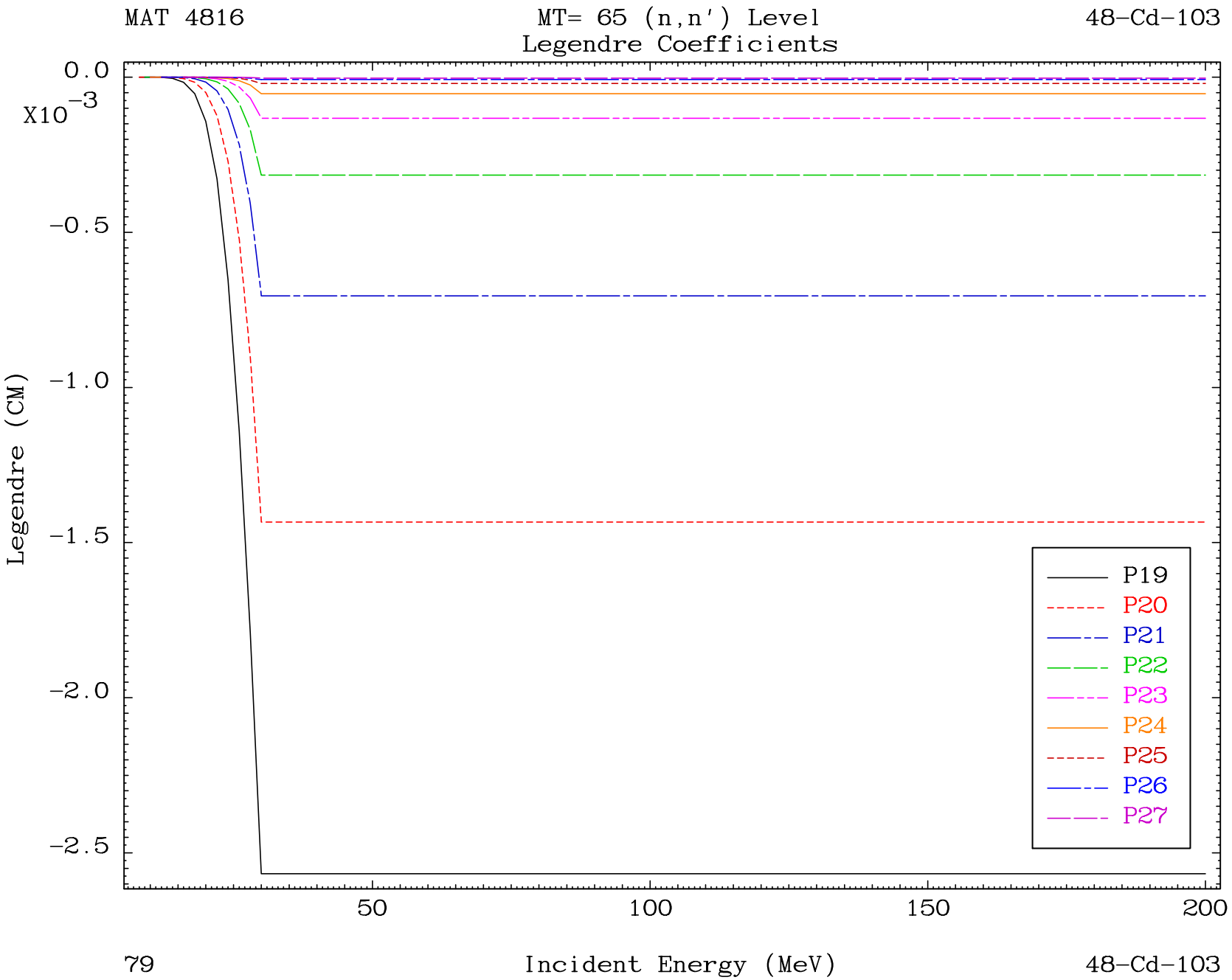

MAT 4816
MT= 64 (n,n') Level
Legendre Coefficients
48-Cd-103
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.04
0.02
0.00
-0.02
-0.04
Legendre (CM)
0
50
100
150
200
74
Incident Energy (MeV)
48-Cd-103

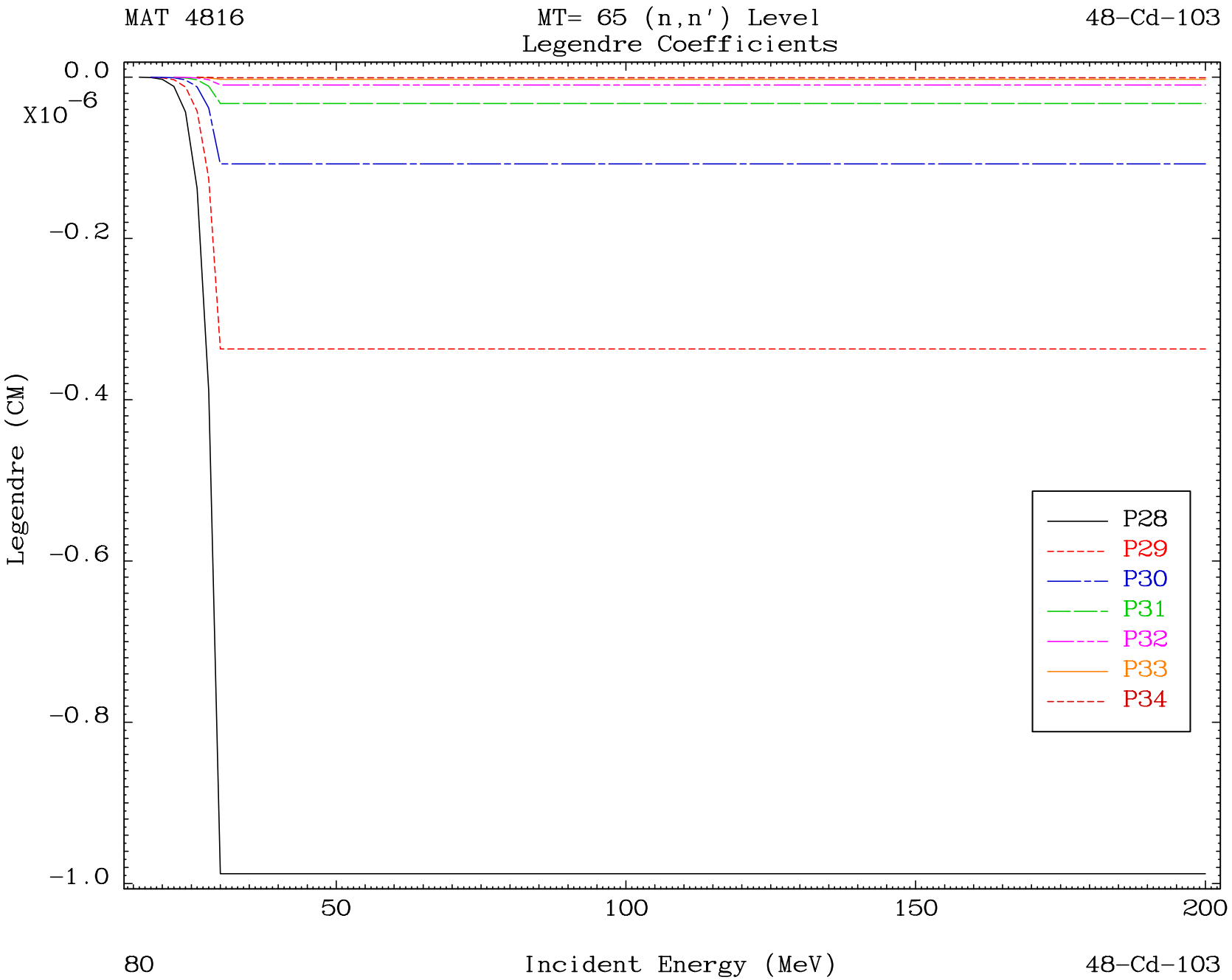

MAT 4816
MT= 64 (n,n') Level
Legendre Coefficients
48-Cd-103
P19
P20
P21
P22
P23
P24
P25
P26
P27
0.004
0.003
0.002
0.001
0.000
Legendre (CM)
50
100
150
200
75
Incident Energy (MeV)
48-Cd-103

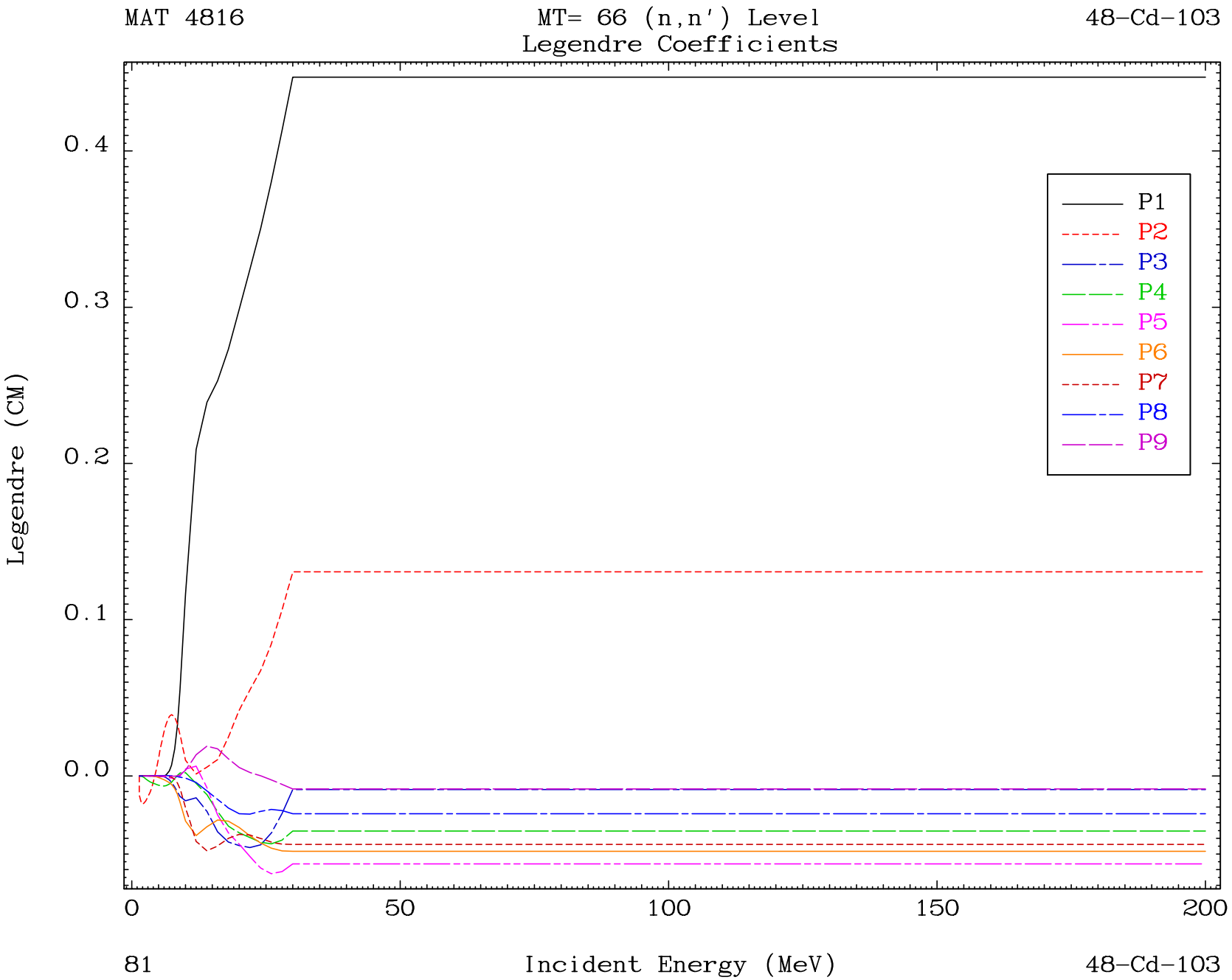

MAT 4816
MT= 64 (n,n') Level
Legendre Coefficients
48-Cd-103
X10^-6
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
76
Incident Energy (MeV)
48-Cd-103

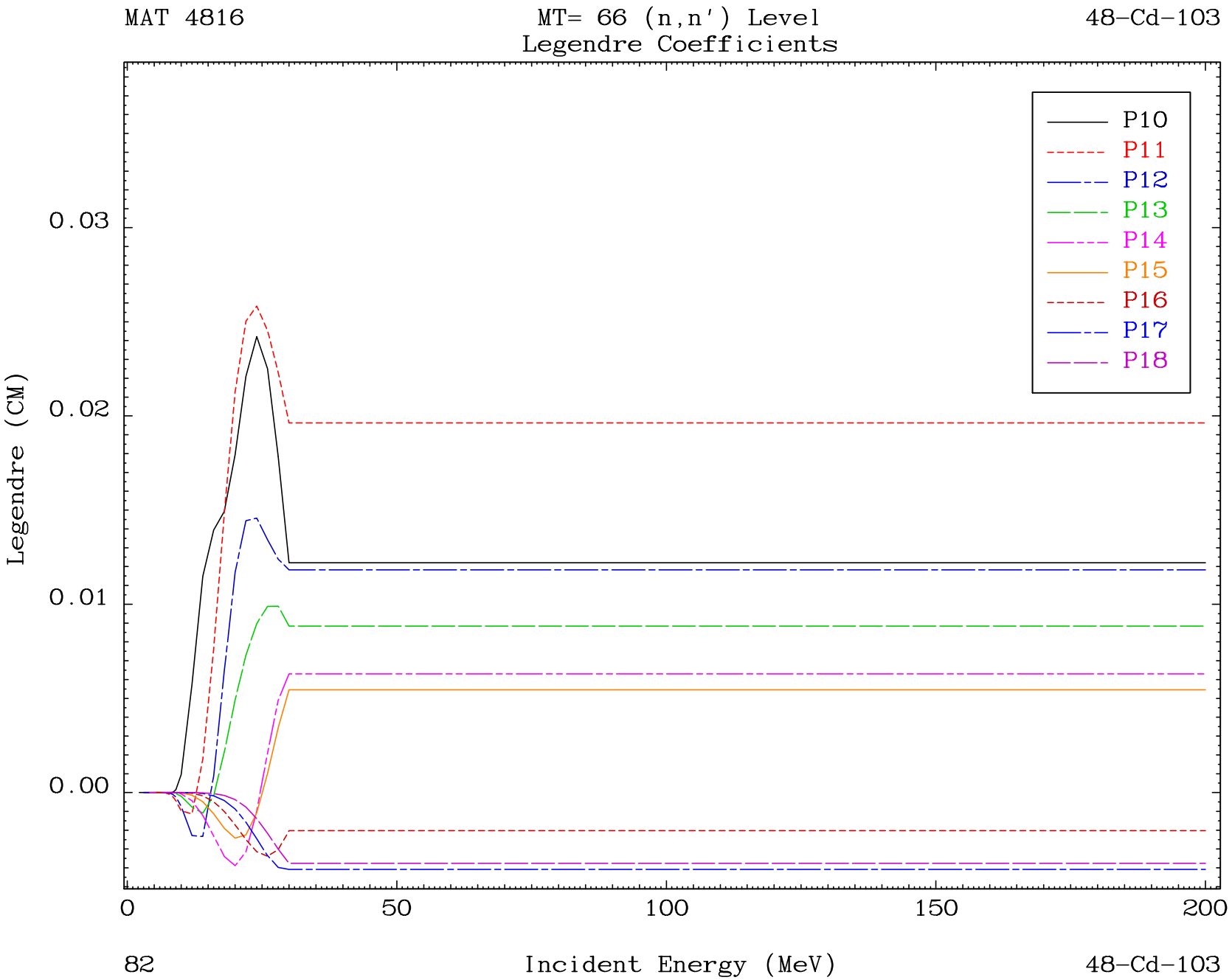

MAT 4816
MT= 65 (n,n') Level
Legendre Coefficients
48-Cd-103
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
77
Incident Energy (MeV)
48-Cd-103
P1
P2
P3
P4
P5
P6
P7
P8
P9

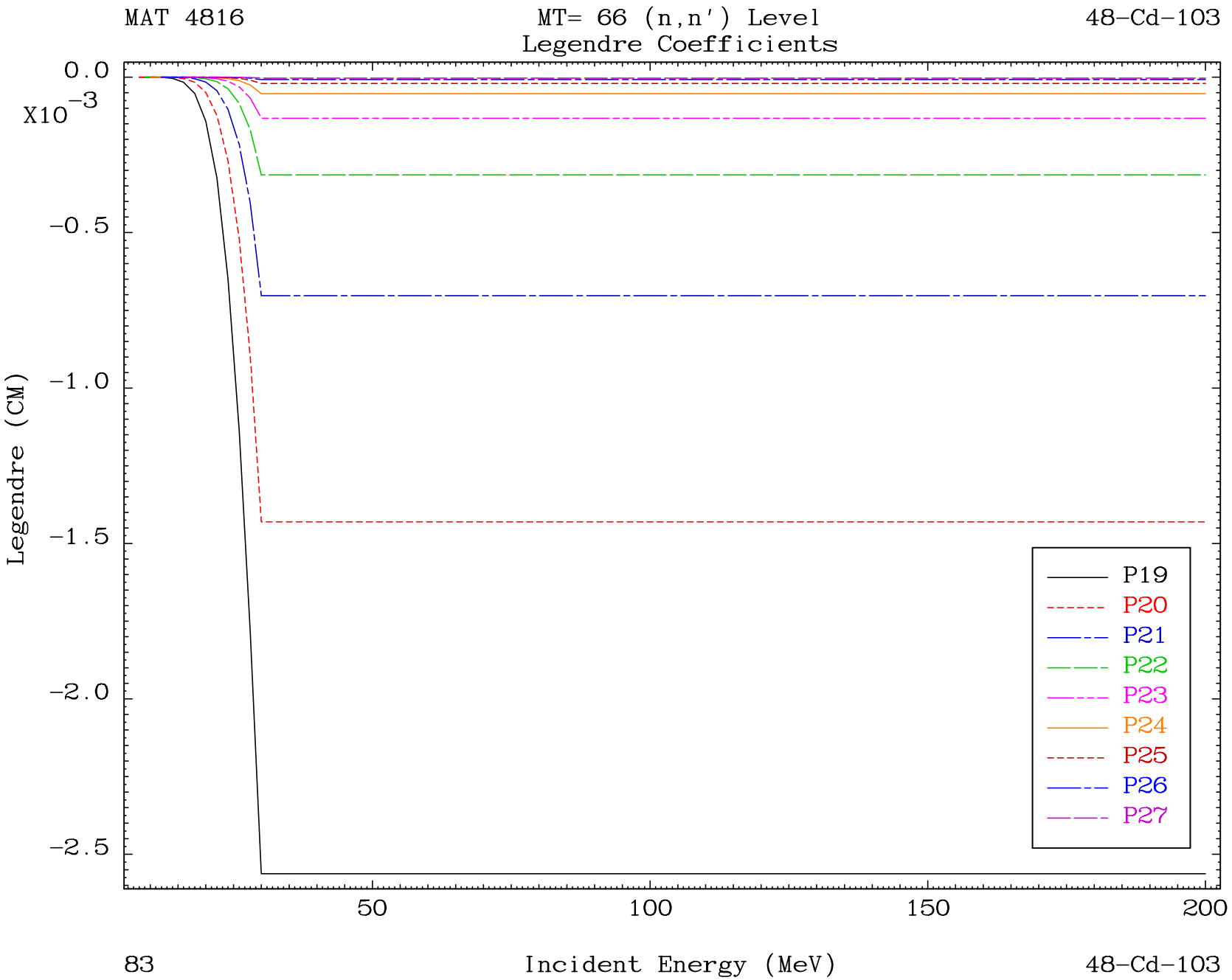

MAT 4816
MT= 65 (n,n') Level
Legendre Coefficients
48-Cd-103
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.03
0.02
0.01
0.00
Legendre (CM)
0
50
100
150
200
78
Incident Energy (MeV)
48-Cd-103

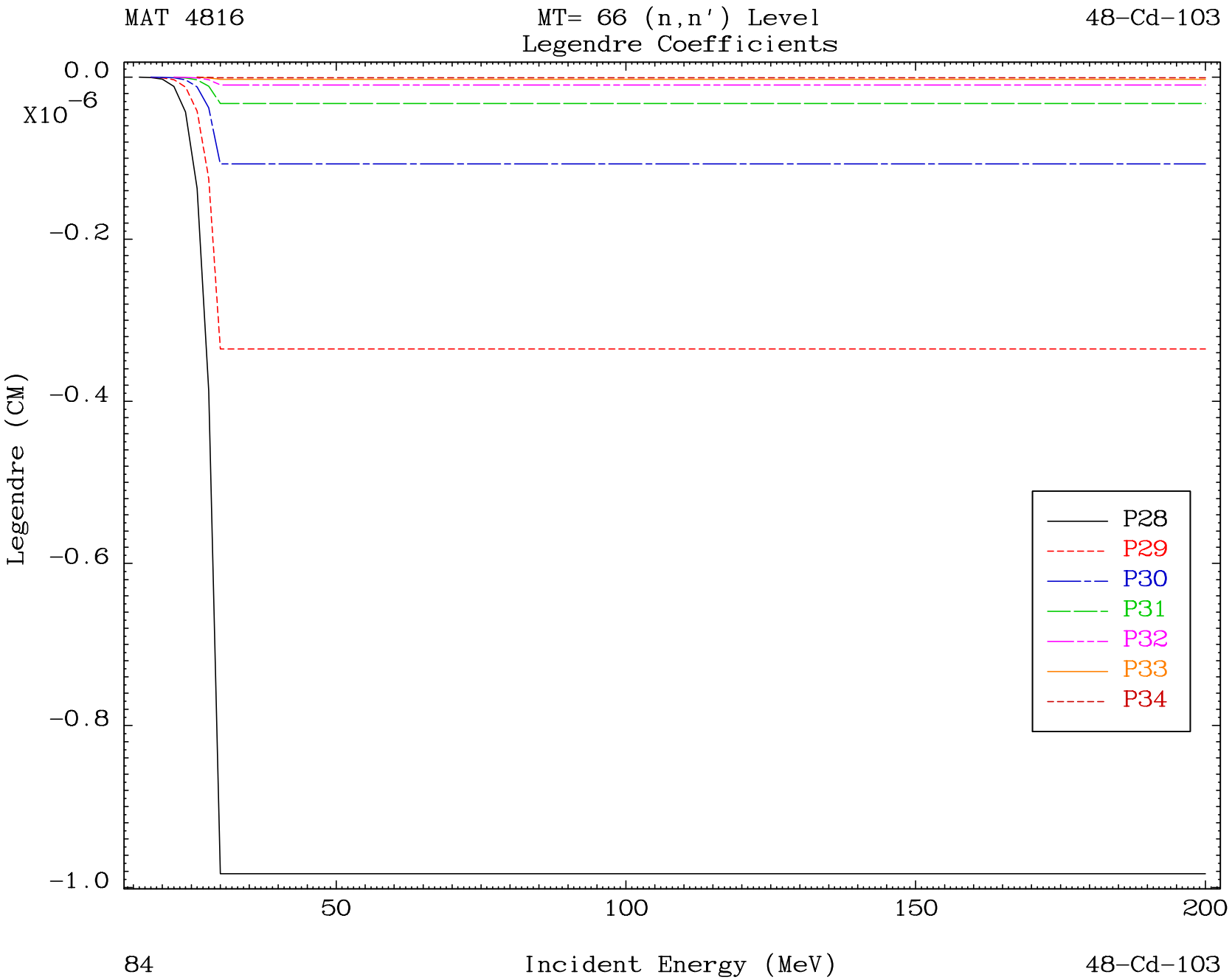

MAT 4816
MT= 65 (n,n') Level
Legendre Coefficients
48-Cd-103
0.0
X10^-3
-0.5
-1.0
-1.5
-2.0
-2.5
Legendre (CM)
50
100
150
200
79
Incident Energy (MeV)
48-Cd-103
P19
P20
P21
P22
P23
P24
P25
P26
P27

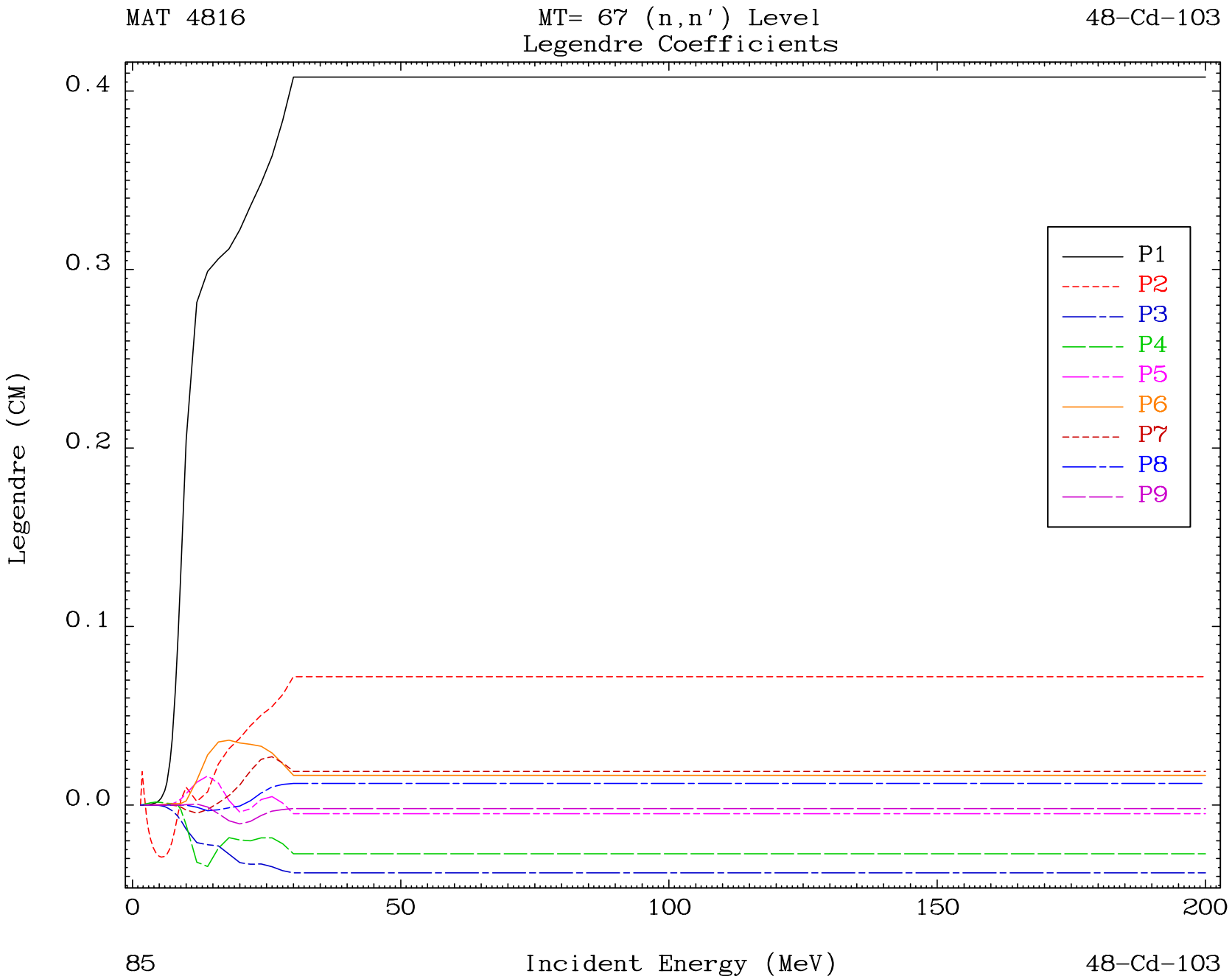

MAT 4816
MT= 65 (n,n') Level
Legendre Coefficients
48-Cd-103
0.0
X10^-6
-0.2
-0.4
-0.6
-0.8
-1.0
Legendre (CM)
50
100
150
200
80
Incident Energy (MeV)
48-Cd-103
P28
P29
P30
P31
P32
P33
P34

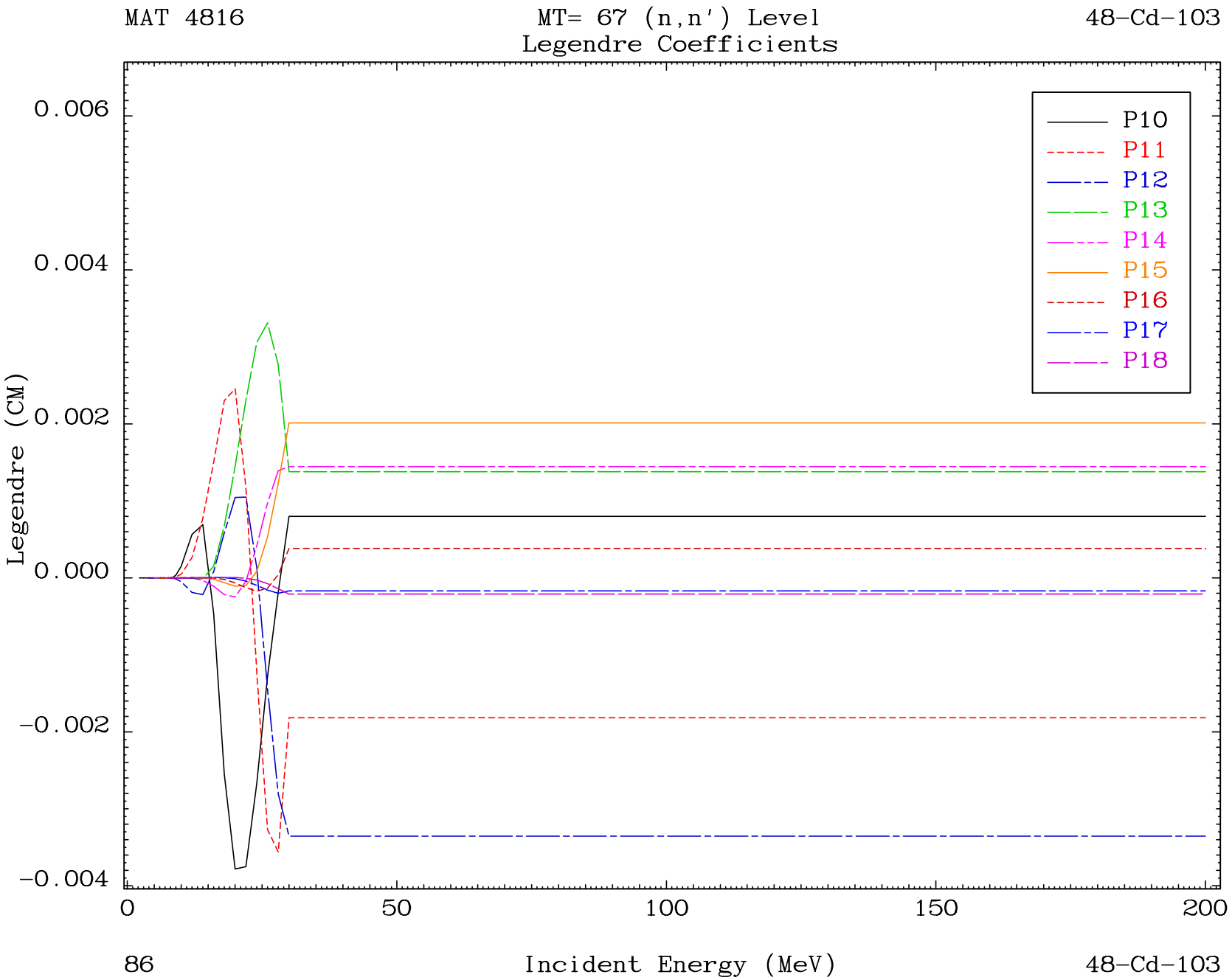

MAT 4816
MT= 66 (n,n') Level
Legendre Coefficients
48-Cd-103
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
81
Incident Energy (MeV)
48-Cd-103

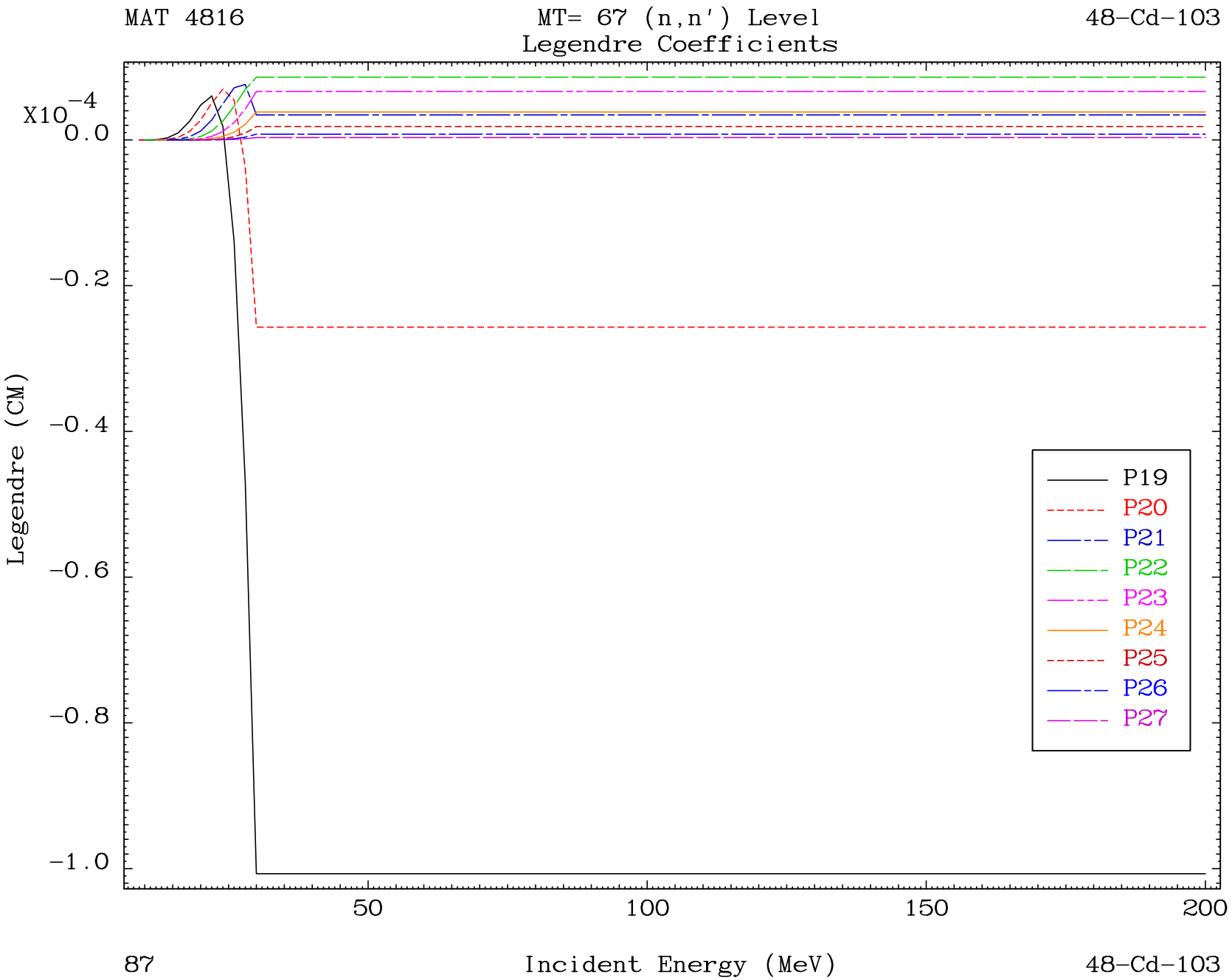

MAT 4816
MT= 66 (n,n') Level
Legendre Coefficients
48-Cd-103
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.03
0.02
0.01
0.00
Legendre (CM)
0
50
100
150
200
82
Incident Energy (MeV)
48-Cd-103

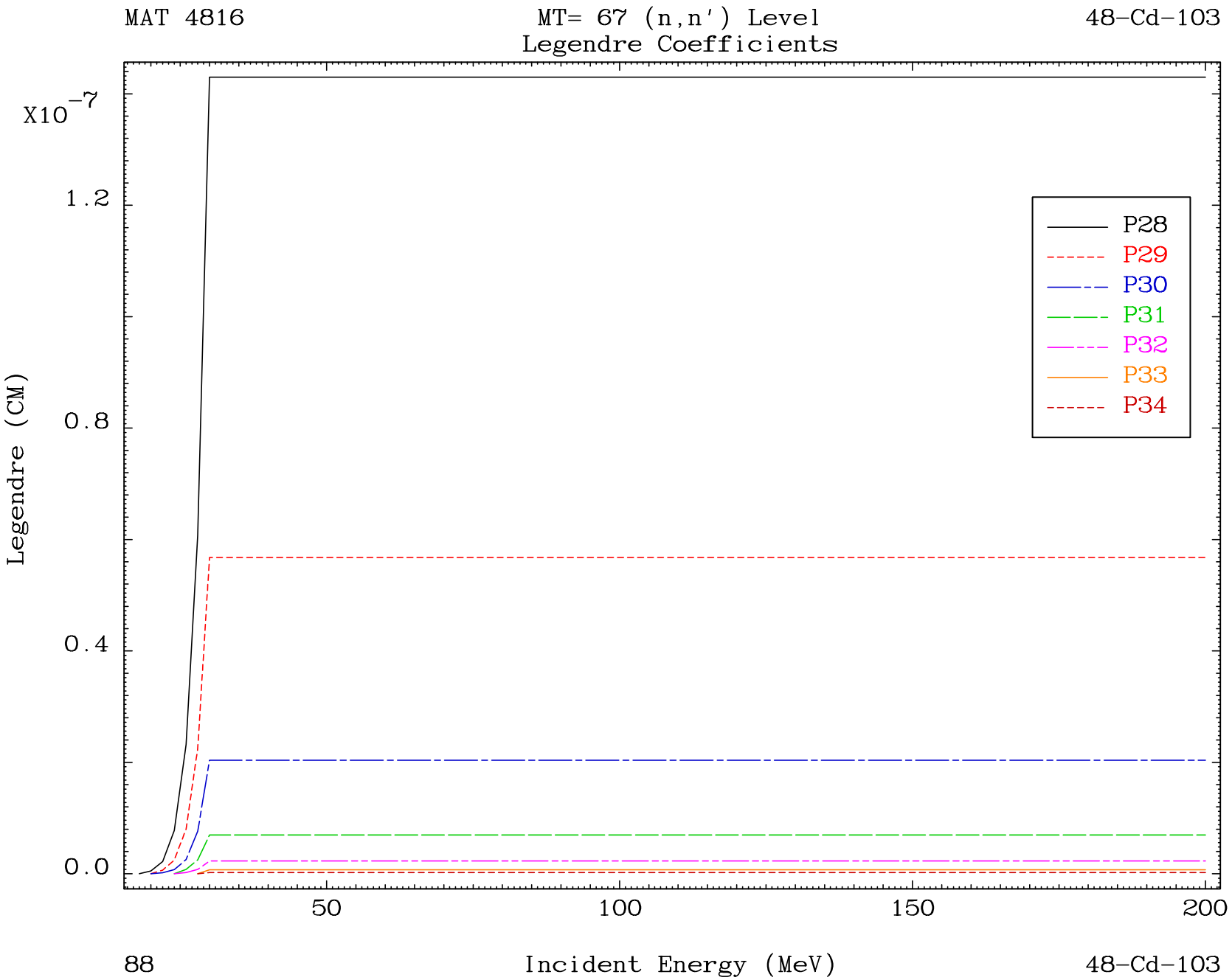

MAT 4816
MT= 66 (n,n') Level
Legendre Coefficients
48-Cd-103
0.0
X10^-3
-0.5
-1.0
-1.5
-2.0
-2.5
Legendre (CM)
50
100
150
200
83
Incident Energy (MeV)
48-Cd-103
P19
P20
P21
P22
P23
P24
P25
P26
P27

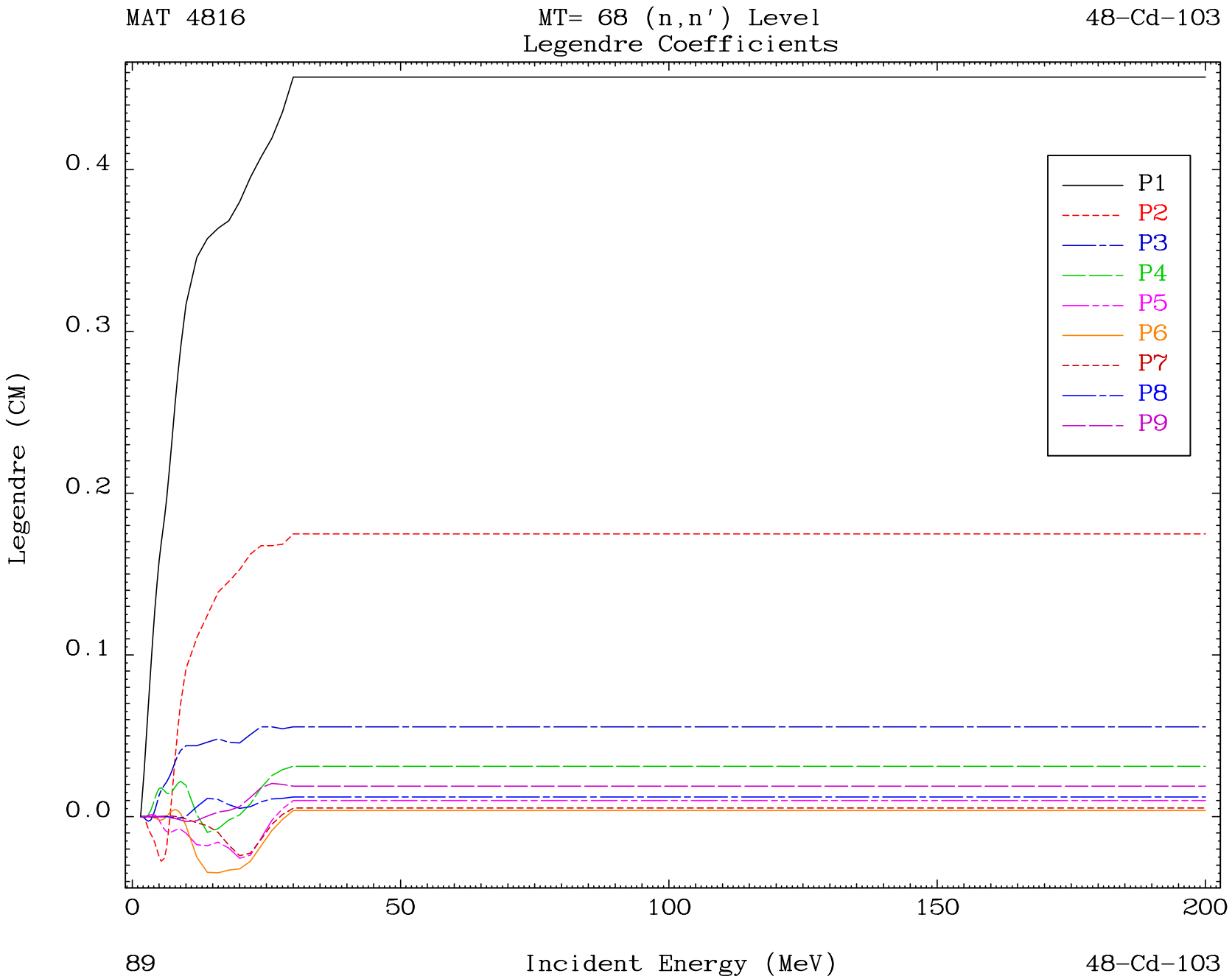

MAT 4816
MT= 66 (n,n') Level
Legendre Coefficients
48-Cd-103
0.0
X10^-6
-0.2
-0.4
-0.6
-0.8
-1.0
Legendre (CM)
50
100
150
200
84
Incident Energy (MeV)
48-Cd-103
P28
P29
P30
P31
P32
P33
P34

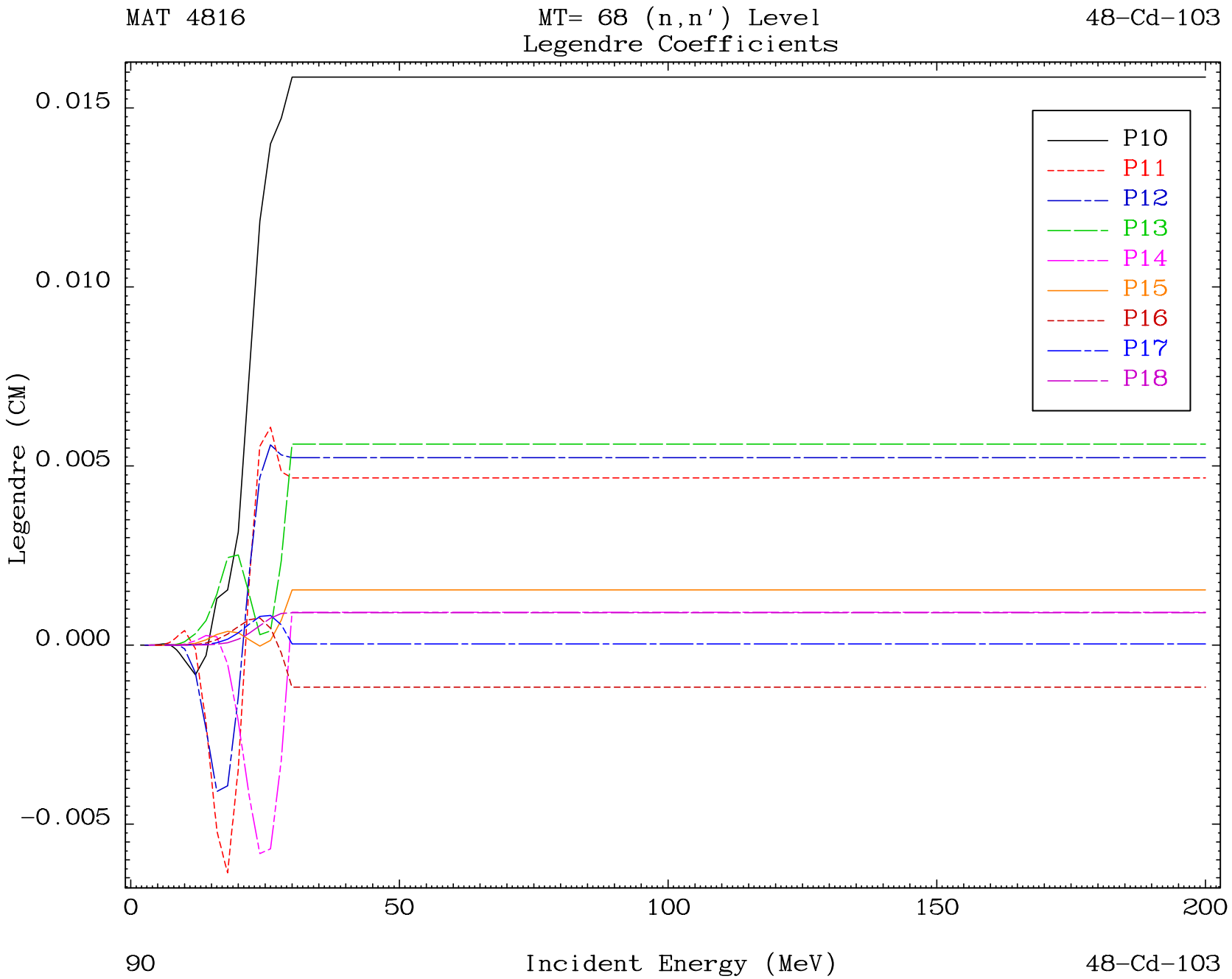

MAT 4816
MT= 67 (n,n') Level
Legendre Coefficients
48-Cd-103
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
85
Incident Energy (MeV)
48-Cd-103

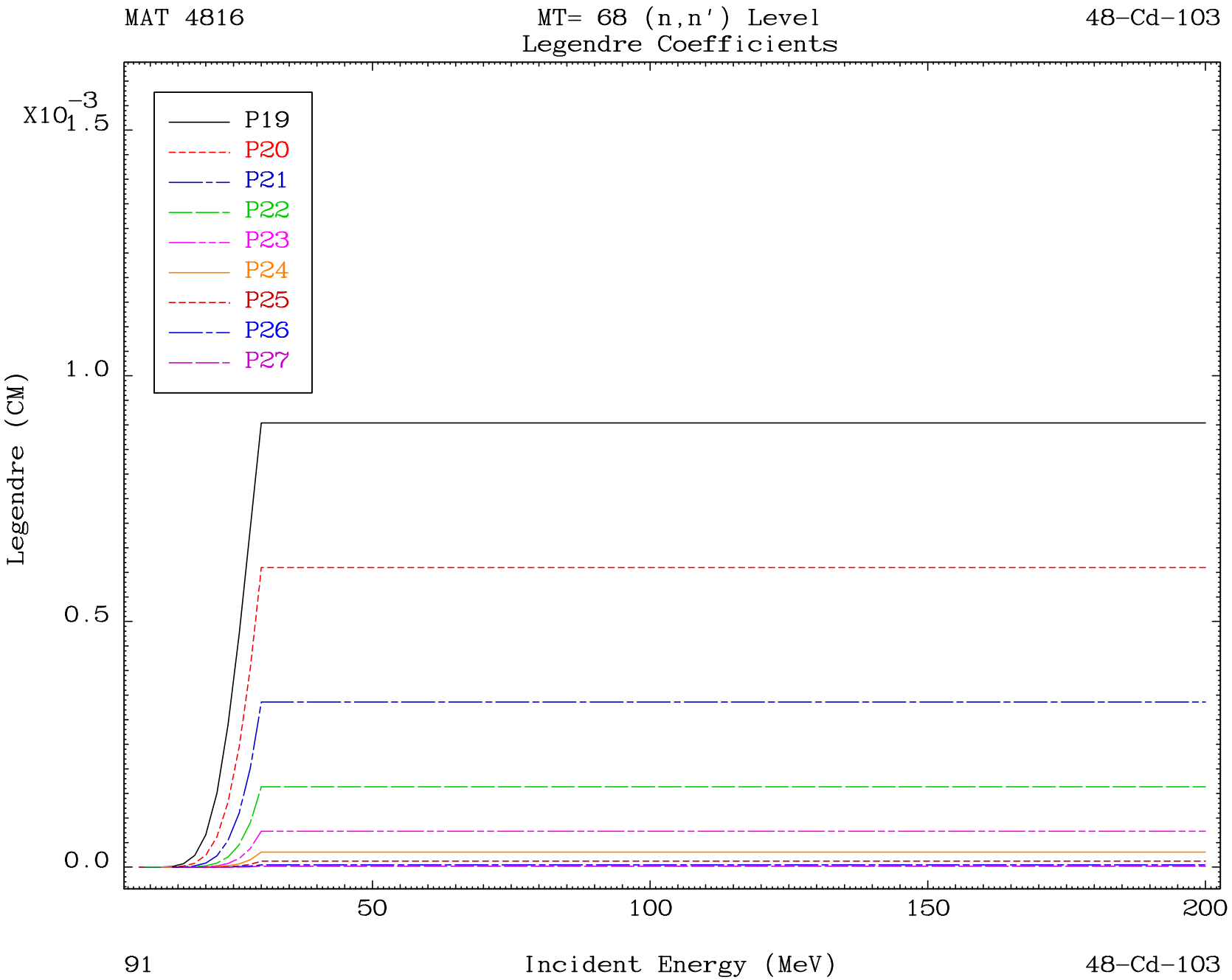

MAT 4816
MT= 67 (n,n') Level
Legendre Coefficients
48-Cd-103
0.006
0.004
0.002
0.000
-0.002
-0.004
Legendre (CM)
0
50
100
150
200
86
Incident Energy (MeV)
48-Cd-103
P10
P11
P12
P13
P14
P15
P16
P17
P18

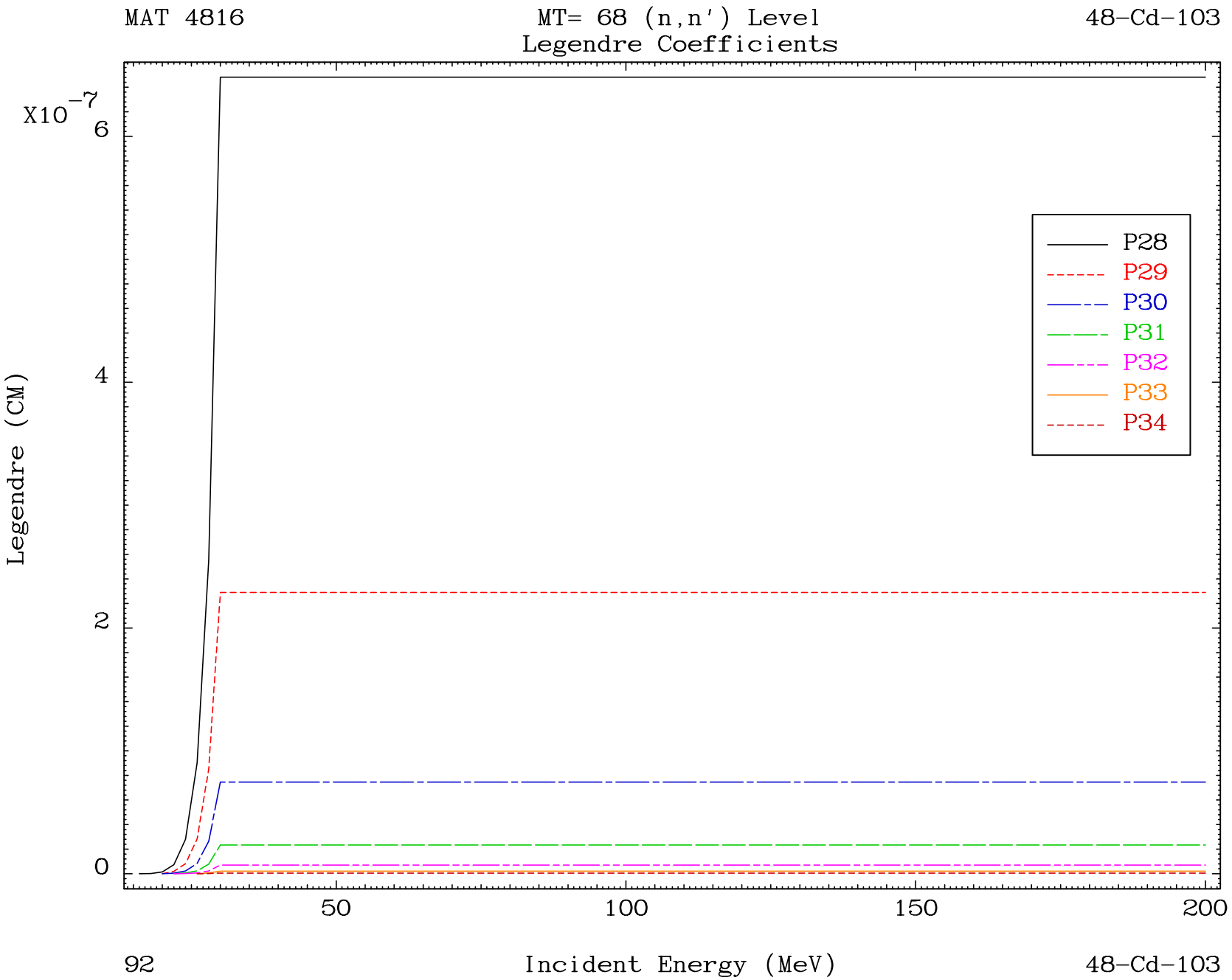

MAT 4816
MT= 67 (n,n') Level
Legendre Coefficients
48-Cd-103
X10^-4
0.0
-0.2
-0.4
-0.6
-0.8
-1.0
Legendre (CM)
50
100
150
200
87
Incident Energy (MeV)
48-Cd-103
P19
P20
P21
P22
P23
P24
P25
P26
P27

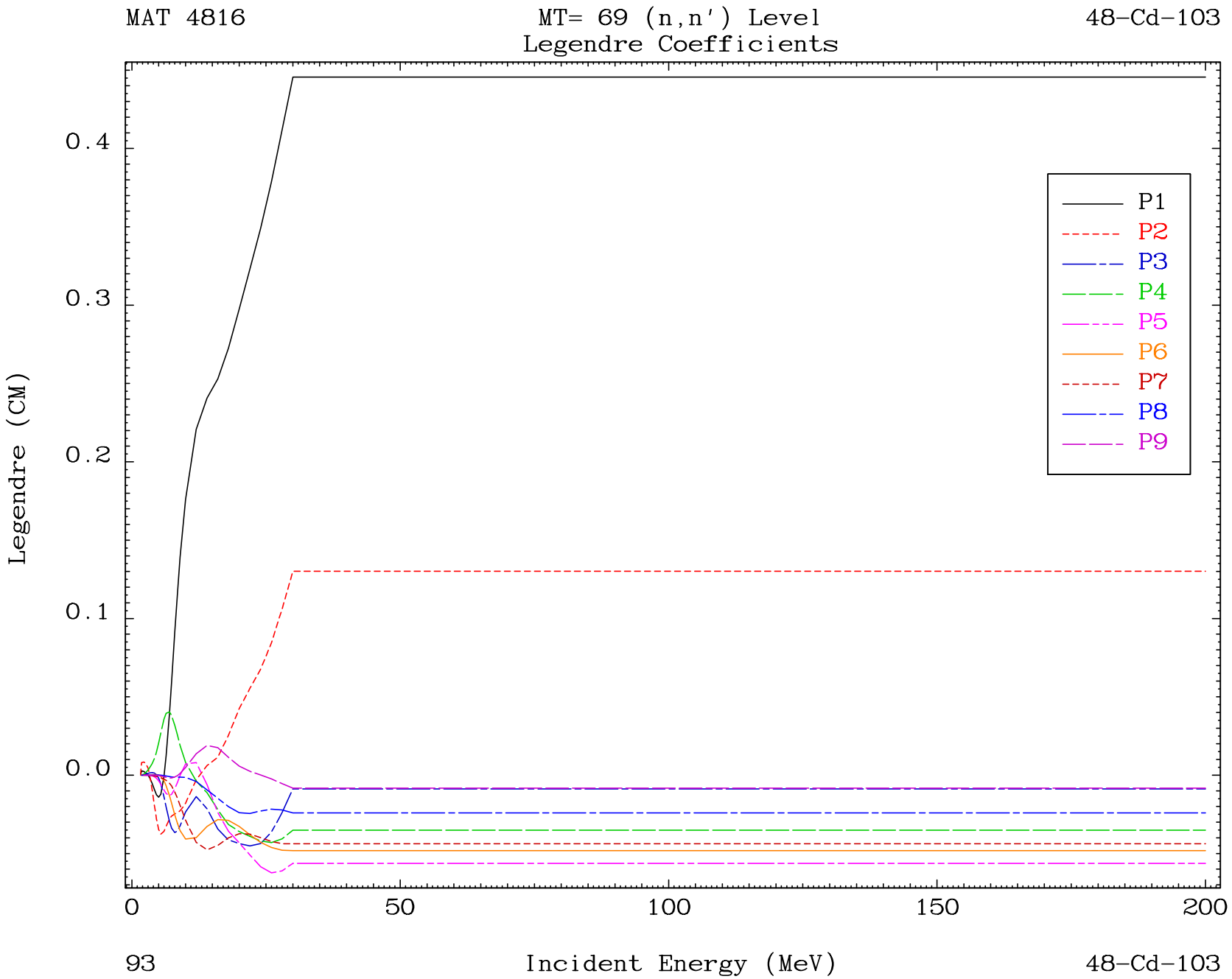

MAT 4816
MT= 67 (n,n') Level
Legendre Coefficients
48-Cd-103
X10-7
1.2
0.8
0.4
0.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
88
Incident Energy (MeV)
48-Cd-103

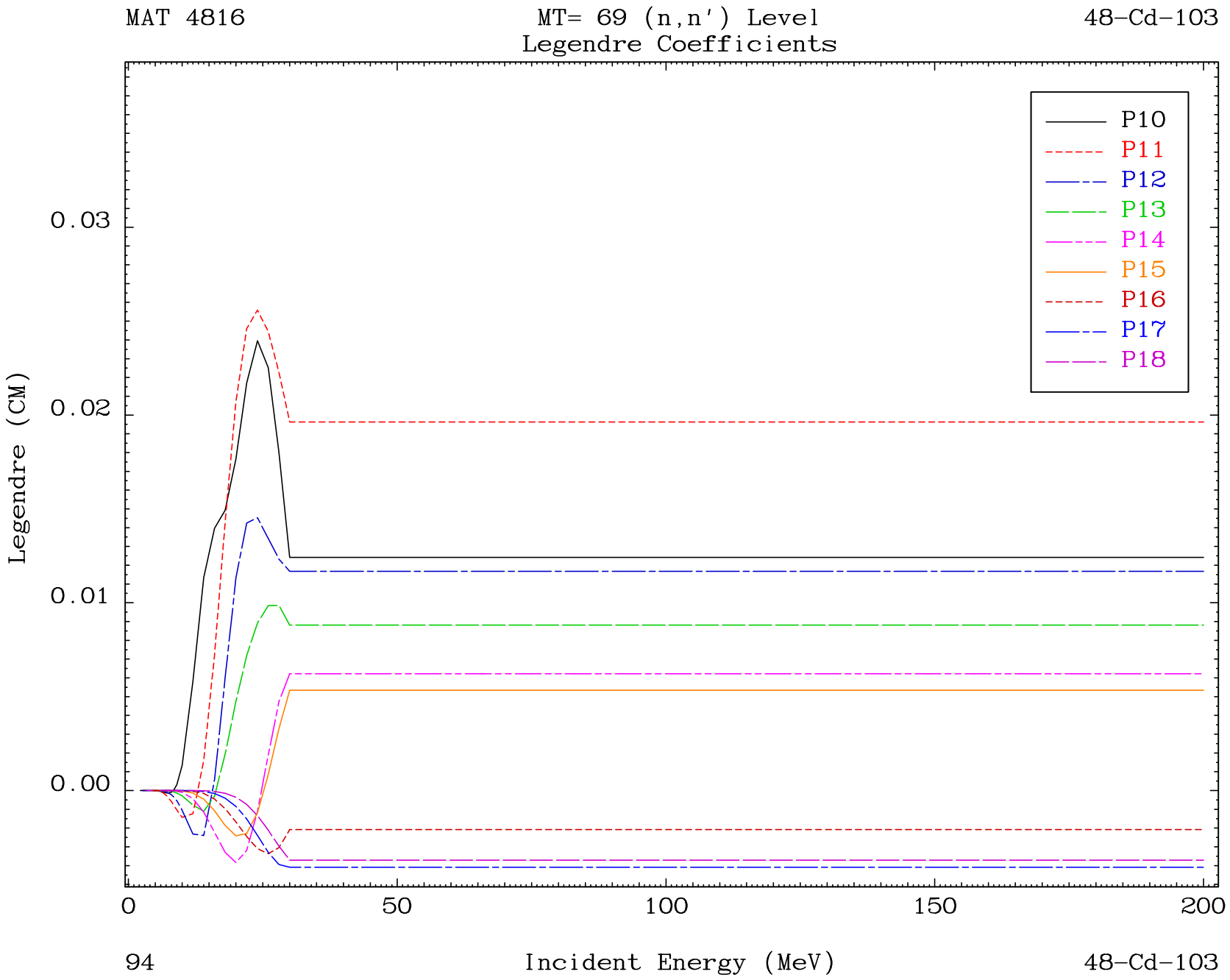

MAT 4816
MT= 68 (n,n') Level
Legendre Coefficients
48-Cd-103
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
89
Incident Energy (MeV)
48-Cd-103

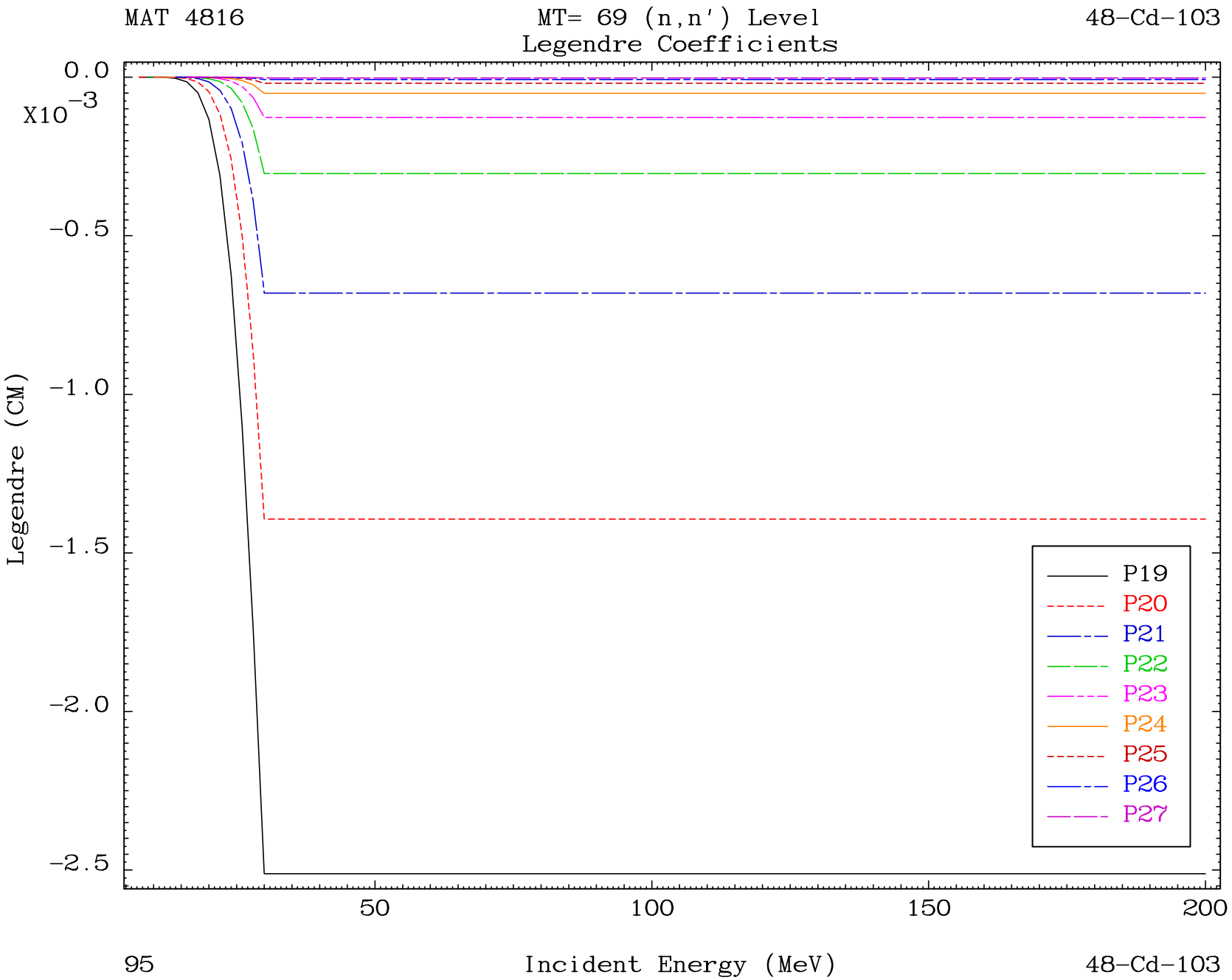

MAT 4816
MT= 68 (n,n') Level
Legendre Coefficients
48-Cd-103
0.015
0.010
0.005
0.000
-0.005
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
90
Incident Energy (MeV)
48-Cd-103

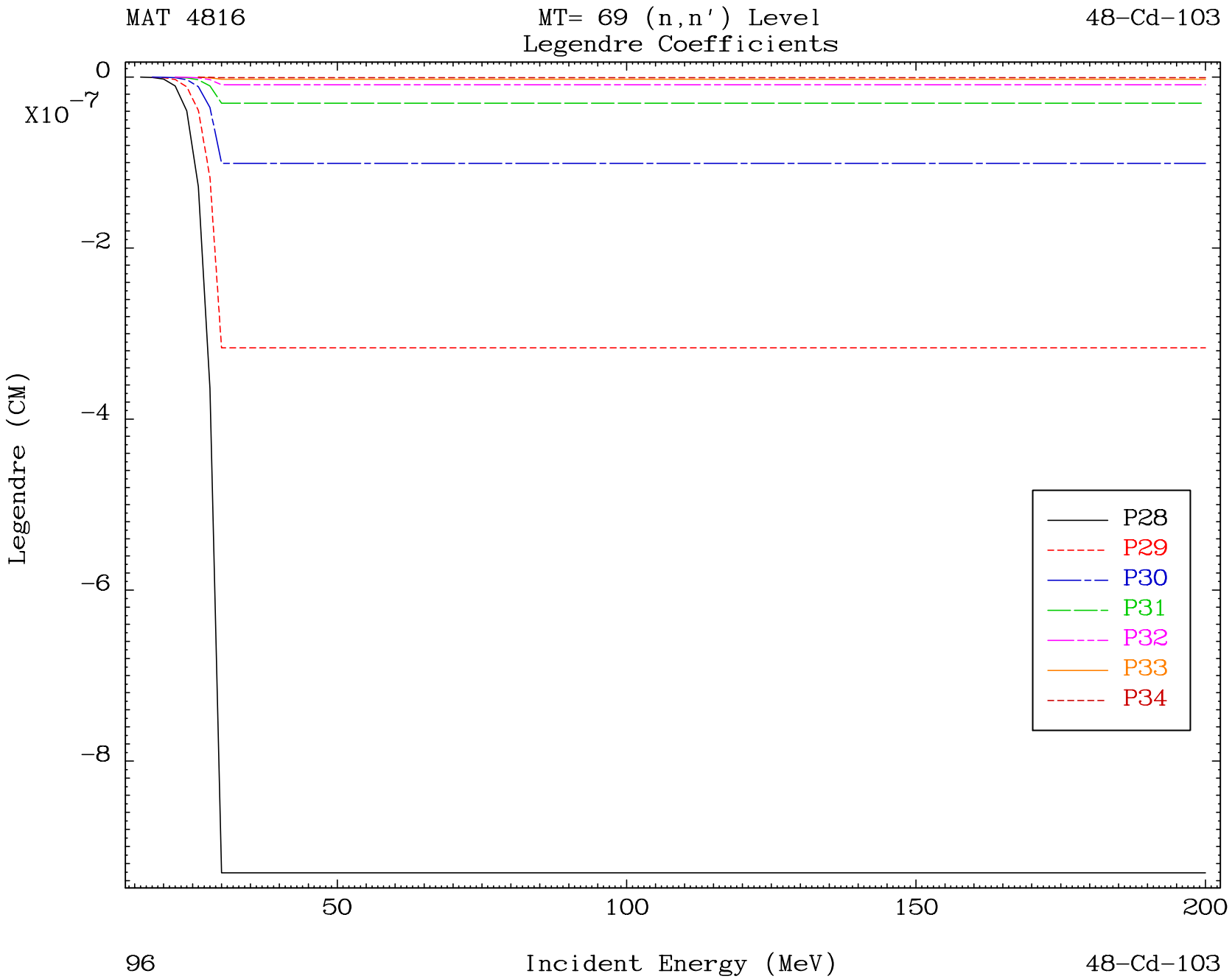

MAT 4816
MT= 68 (n,n') Level
Legendre Coefficients
48-Cd-103
X10-3
1.5
1.0
0.5
0.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
91
Incident Energy (MeV)
48-Cd-103

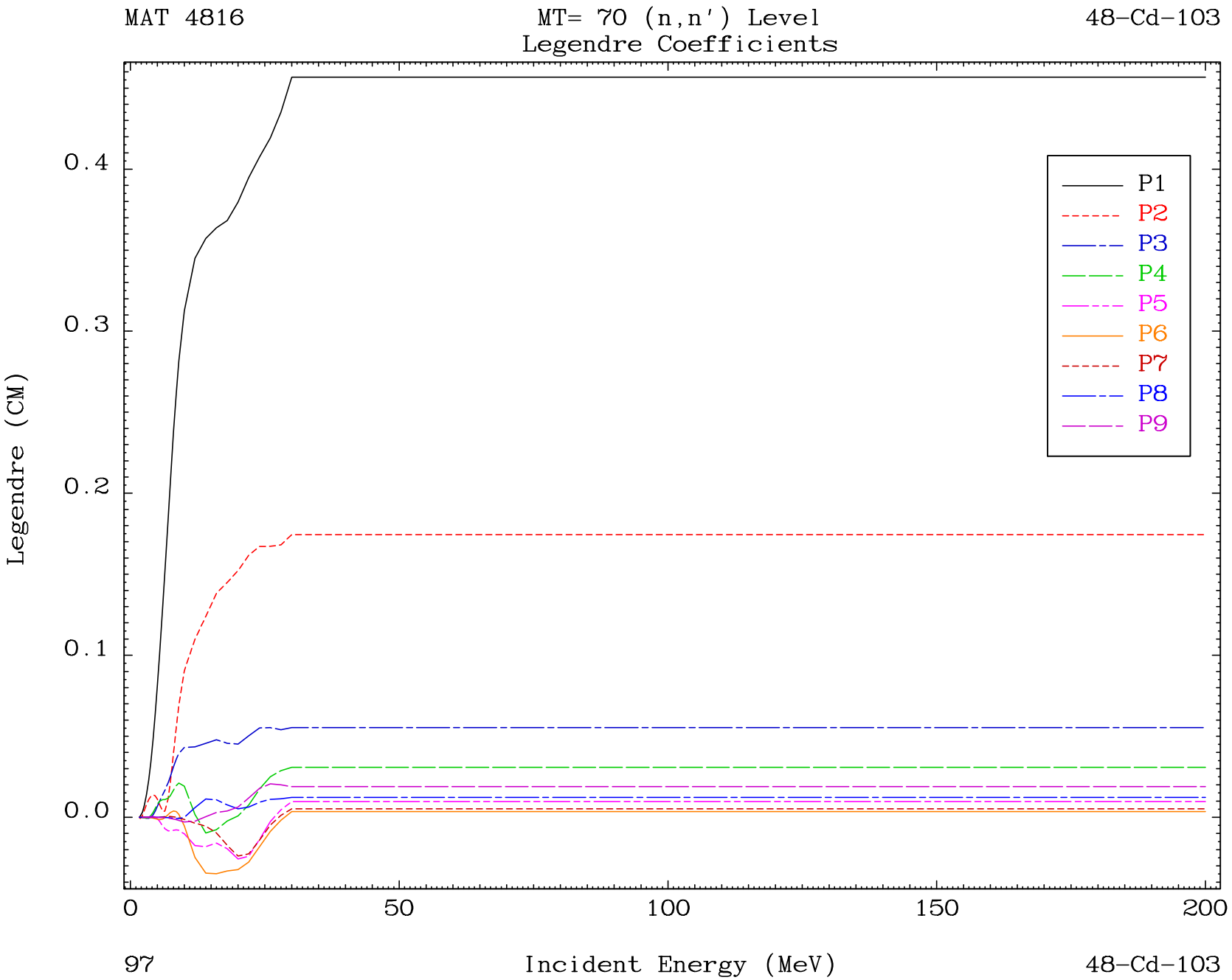

MAT 4816
MT= 68 (n,n') Level
Legendre Coefficients
48-Cd-103
X10^-7
6
4
2
0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
92
Incident Energy (MeV)
48-Cd-103

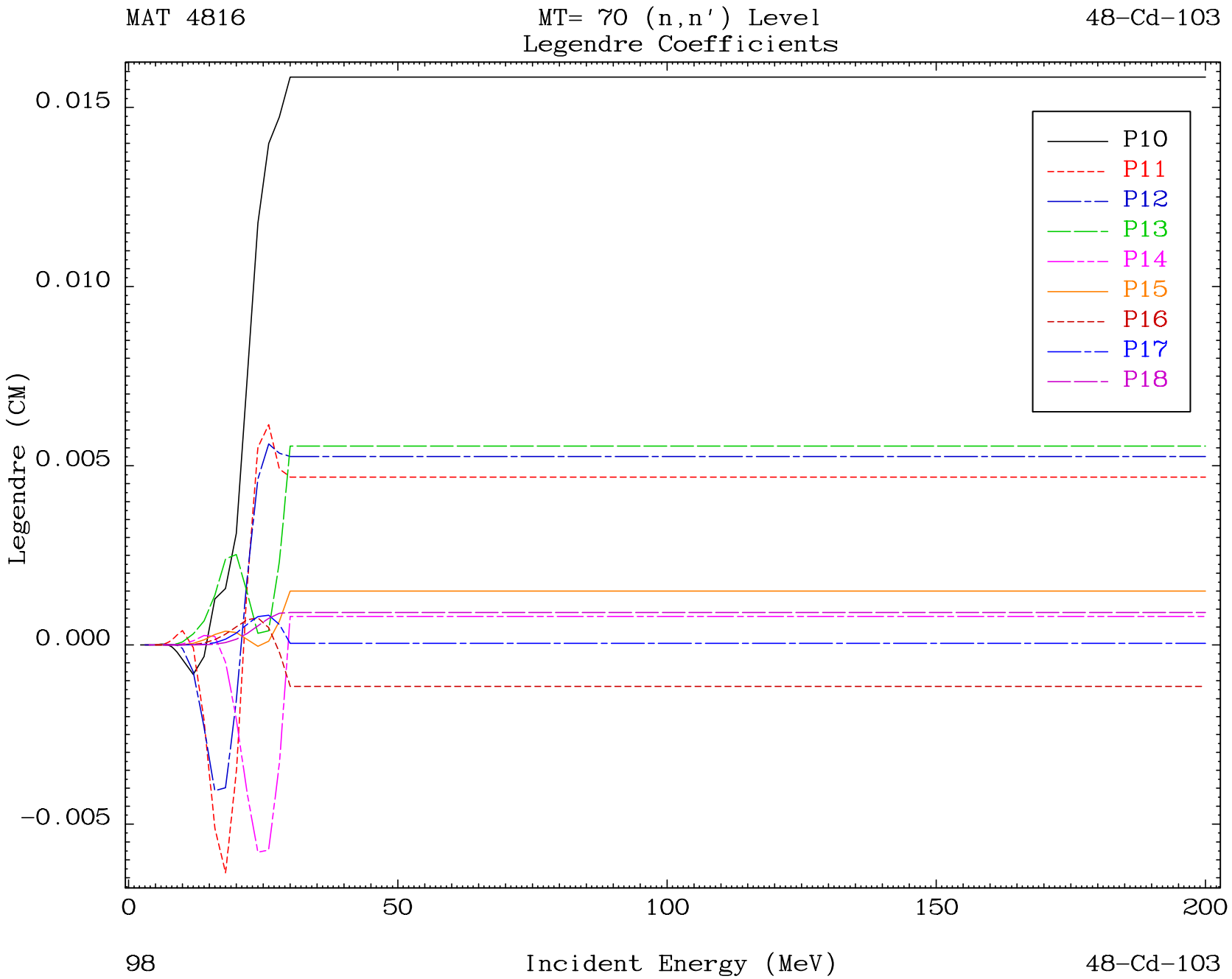

MAT 4816
MT= 69 (n,n') Level
Legendre Coefficients
48-Cd-103
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
93
Incident Energy (MeV)
48-Cd-103
P1
P2
P3
P4
P5
P6
P7
P8
P9

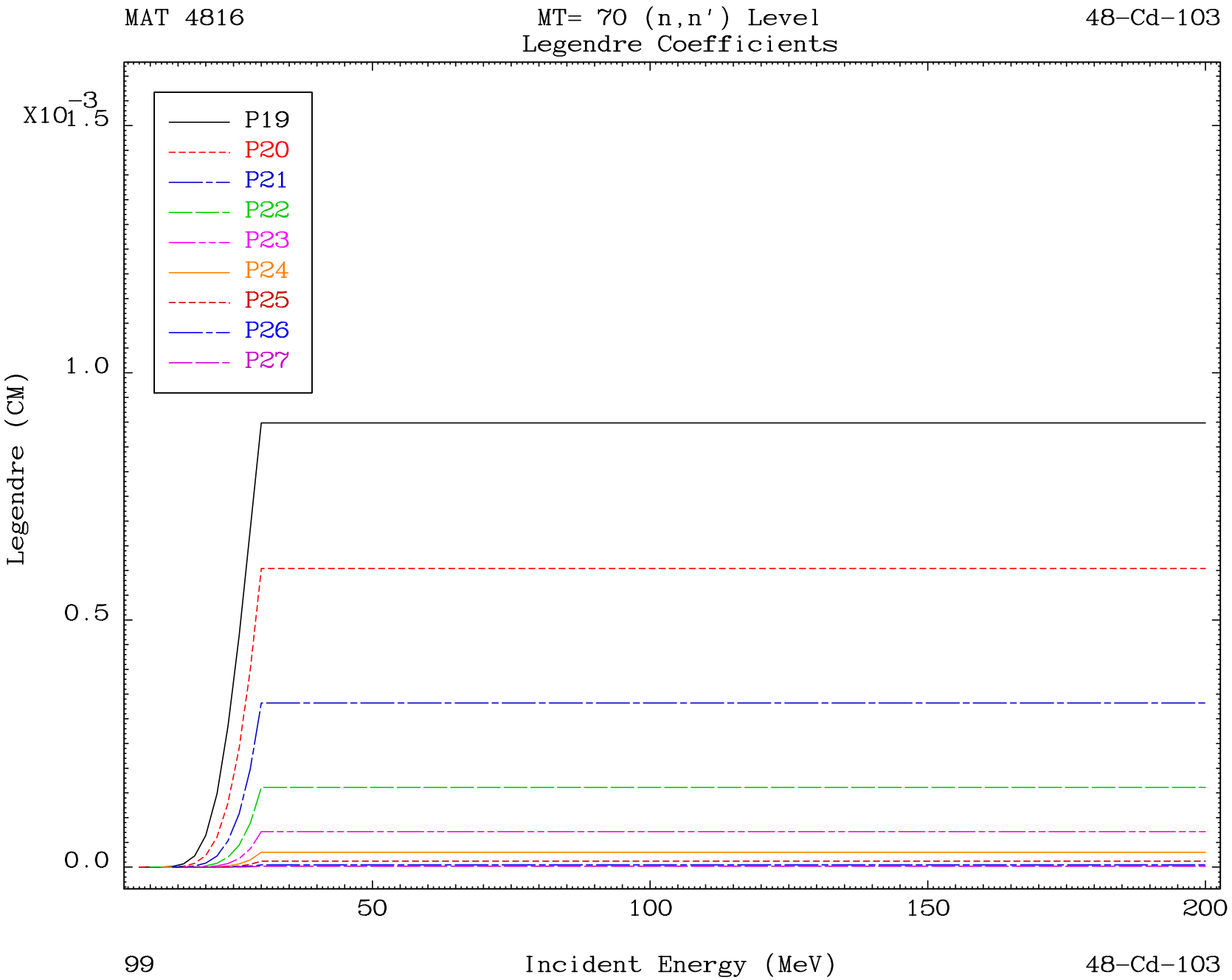

MAT 4816
MT= 69 (n,n') Level
Legendre Coefficients
48-Cd-103
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.03
0.02
0.01
0.00
Legendre (CM)
0
50
100
150
200
94
Incident Energy (MeV)
48-Cd-103

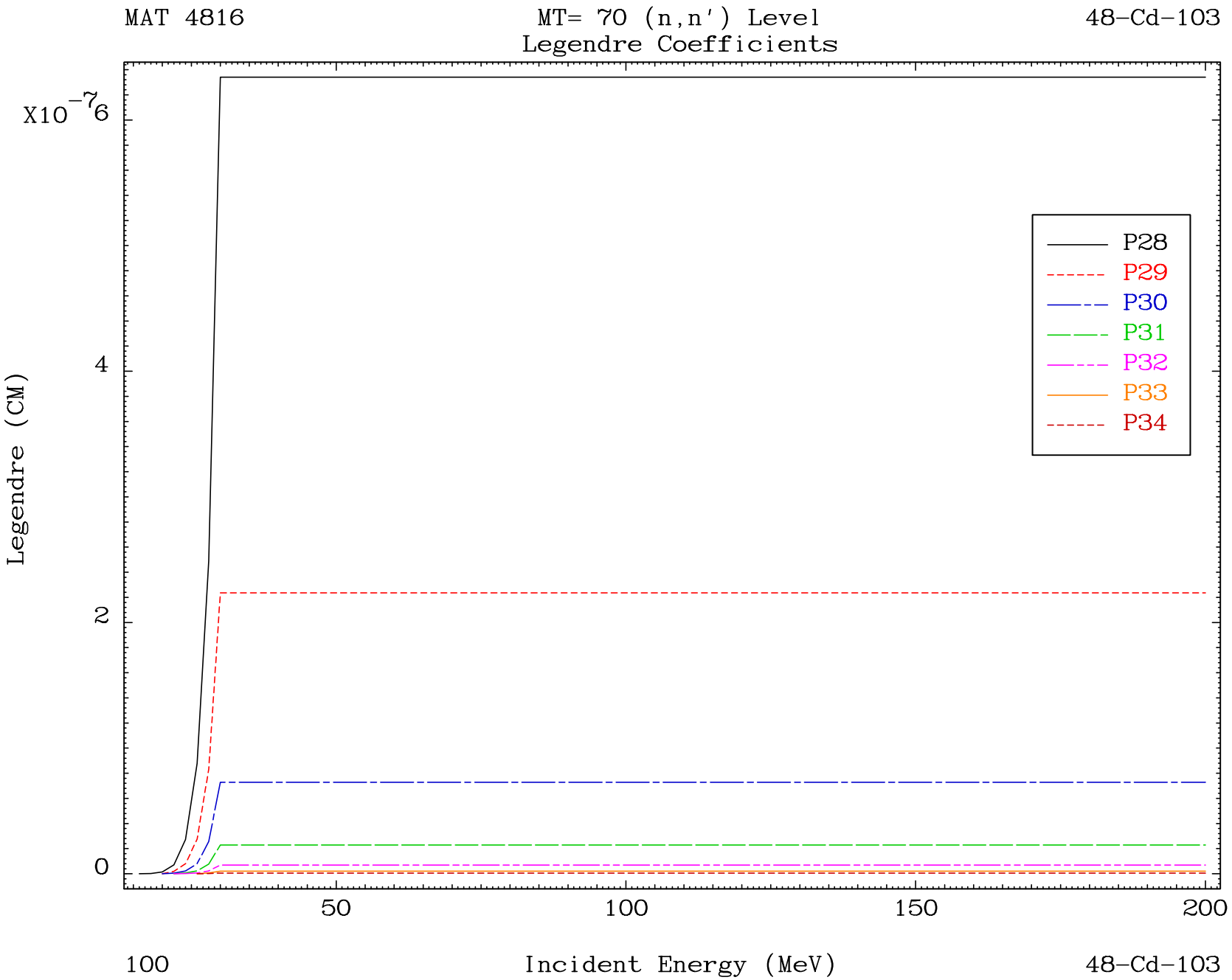

MAT 4816
MT= 69 (n,n') Level
Legendre Coefficients
48-Cd-103
0.0
X10^-3
-0.5
-1.0
-1.5
-2.0
-2.5
Legendre (CM)
50
100
150
200
95
Incident Energy (MeV)
48-Cd-103
P19
P20
P21
P22
P23
P24
P25
P26
P27

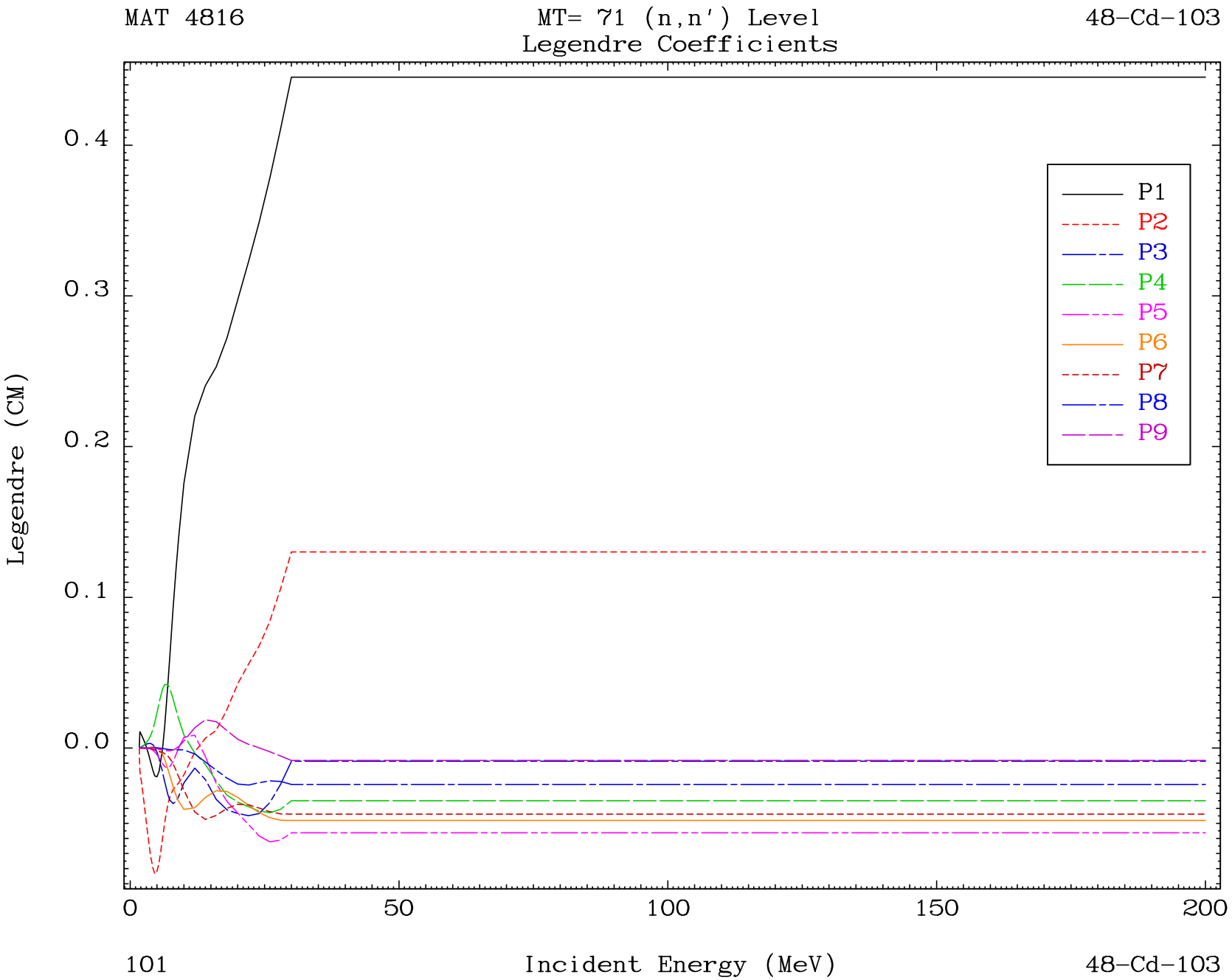

MAT 4816
MT= 69 (n,n') Level
Legendre Coefficients
48-Cd-103
X10-7
0
-2
-4
-6
-8
Legendre (CM)
50
100
150
200
96
Incident Energy (MeV)
48-Cd-103
P28
P29
P30
P31
P32
P33
P34

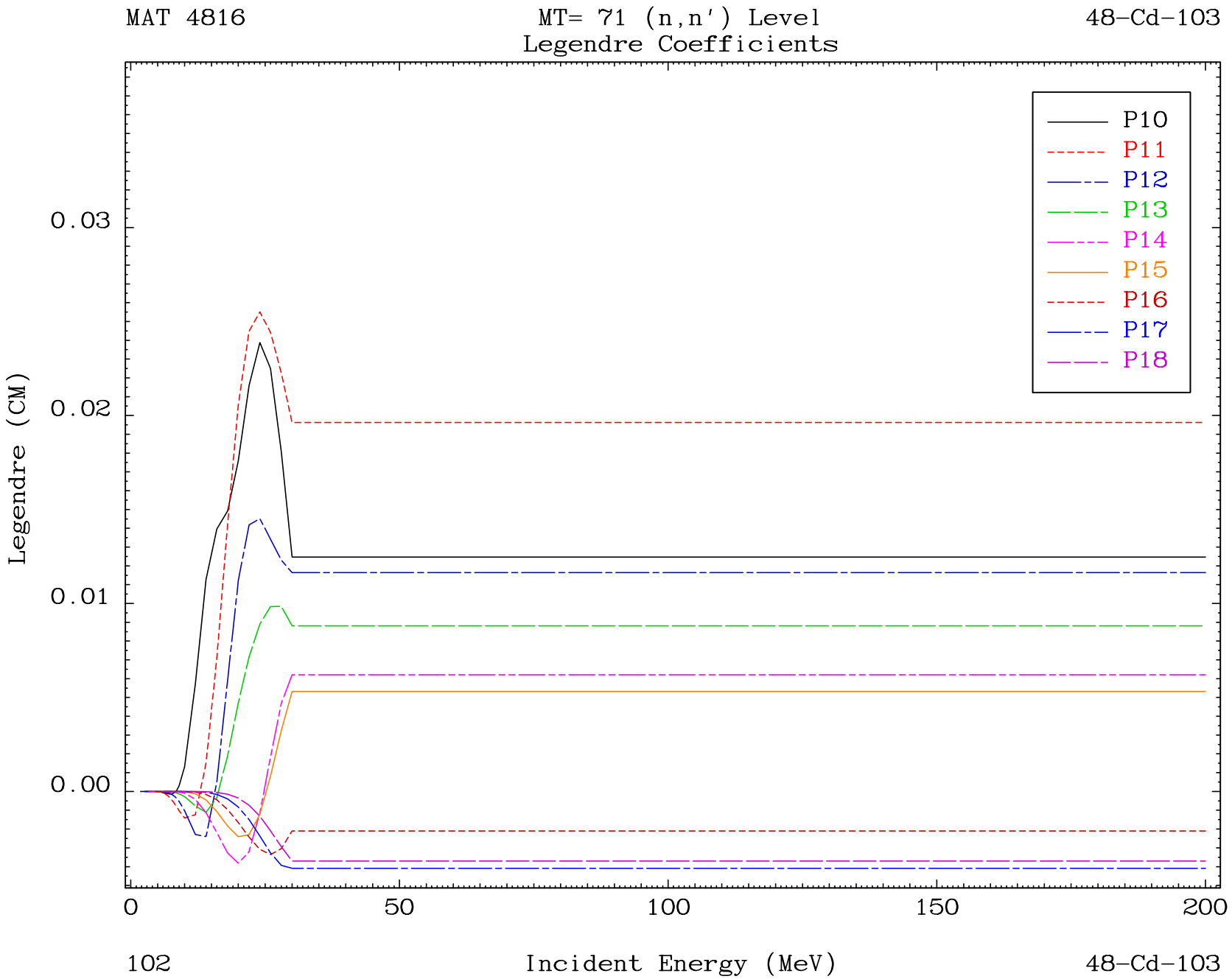

MAT 4816
MT= 70 (n,n') Level
Legendre Coefficients
48-Cd-103
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
97
Incident Energy (MeV)
48-Cd-103

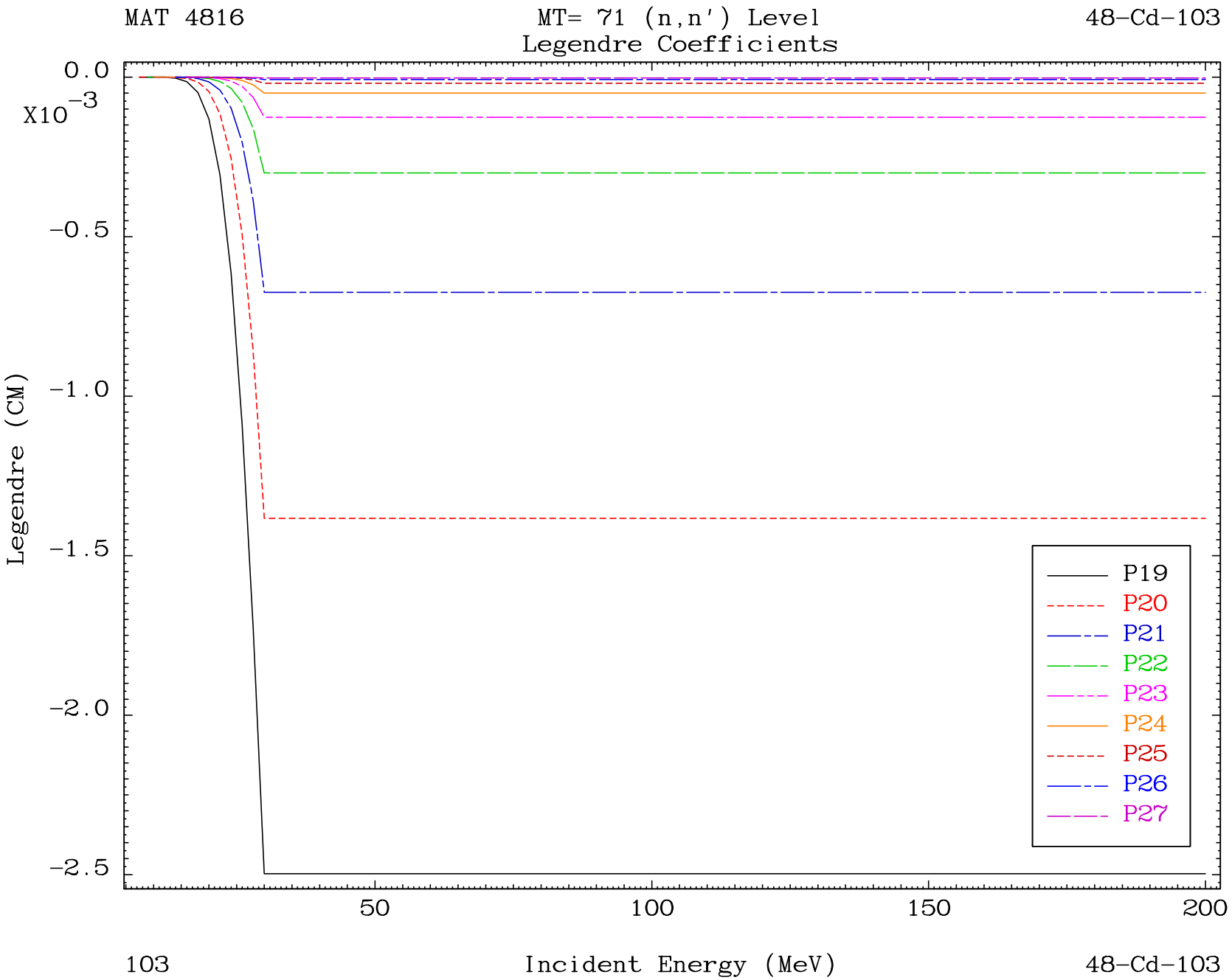

MAT 4816
MT= 70 (n,n') Level
Legendre Coefficients
48-Cd-103
0.015
0.010
0.005
0.000
-0.005
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
98
Incident Energy (MeV)
48-Cd-103

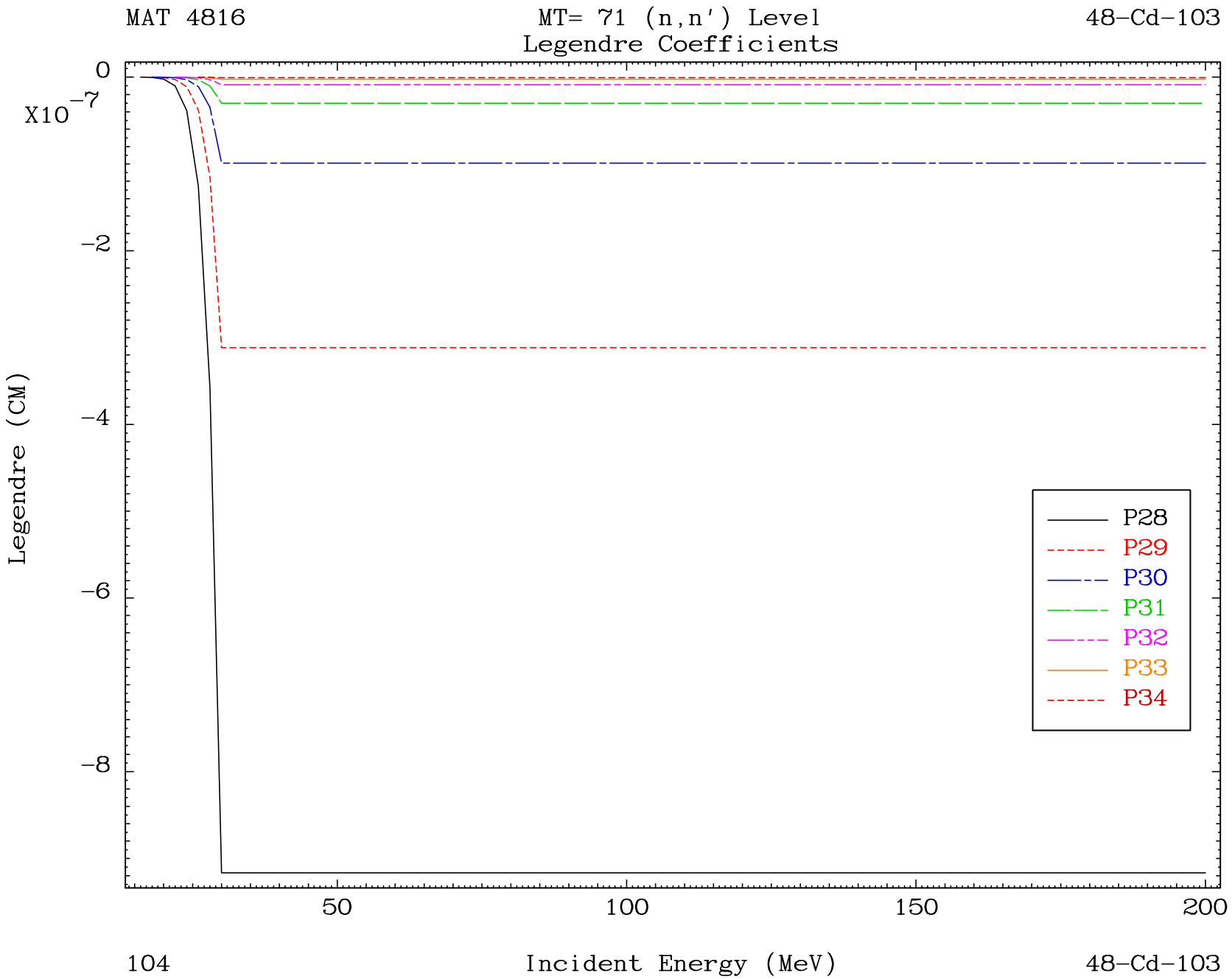

MAT 4816
MT= 70 (n,n') Level
Legendre Coefficients
48-Cd-103
X10-3
1.5
1.0
0.5
0.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
99
Incident Energy (MeV)
48-Cd-103

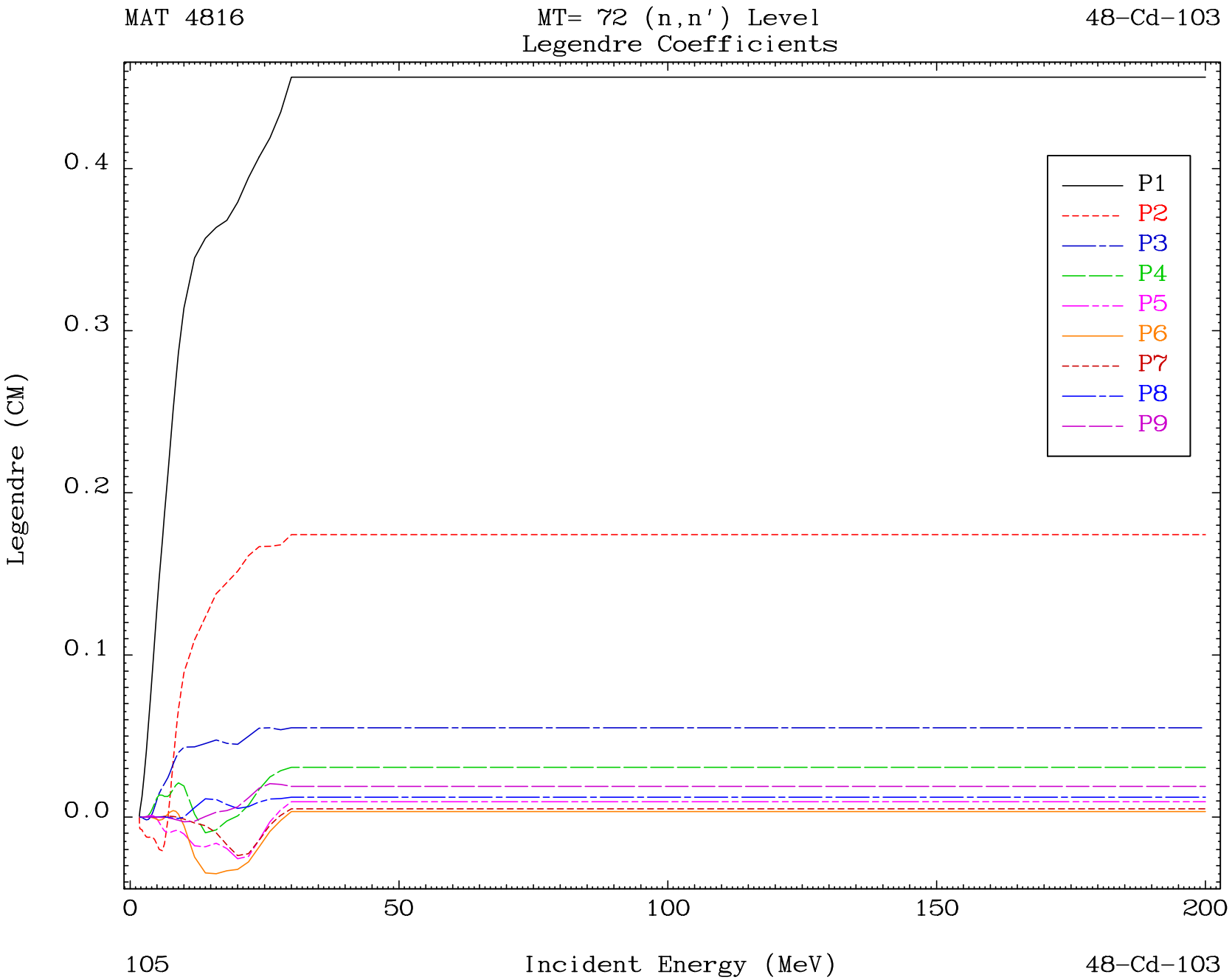

MAT 4816
MT= 70 (n,n') Level
Legendre Coefficients
48-Cd-103
X10^-7
6
4
2
0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
100
Incident Energy (MeV)
48-Cd-103

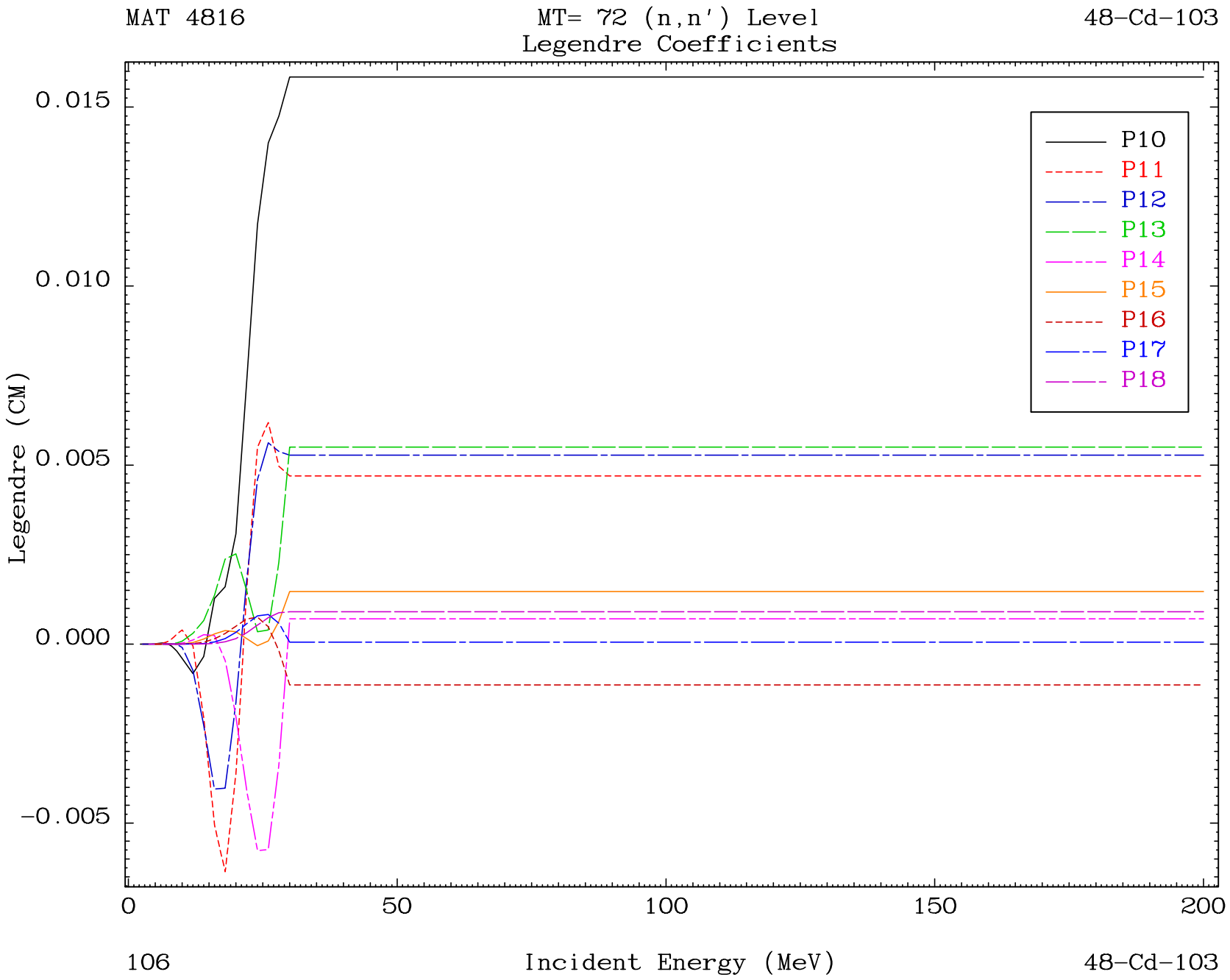

MAT 4816
MT= 71 (n,n') Level
Legendre Coefficients
48-Cd-103
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
101
Incident Energy (MeV)
48-Cd-103

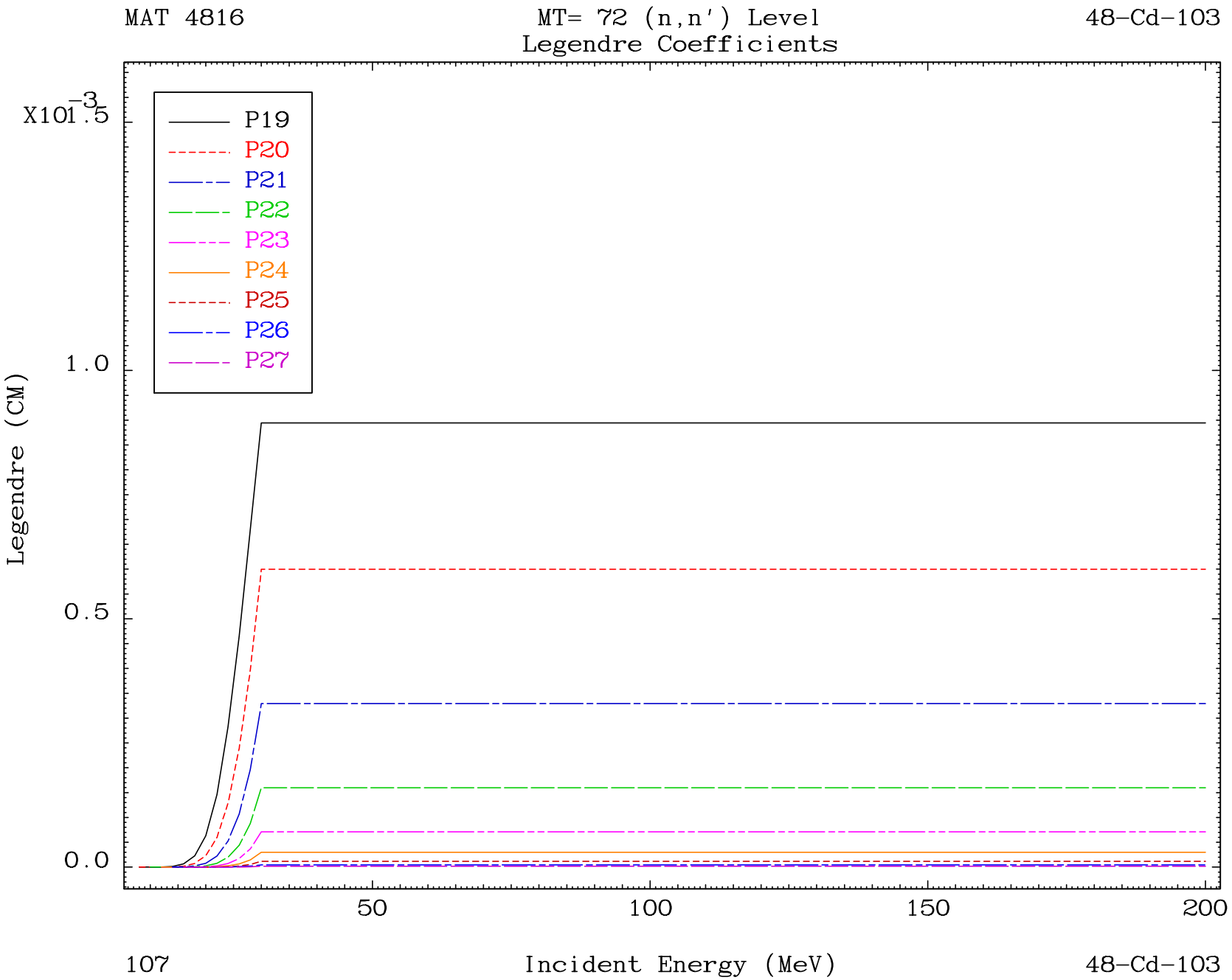

MAT 4816
MT= 71 (n,n') Level
Legendre Coefficients
48-Cd-103
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.03
0.02
0.01
0.00
Legendre (CM)
0
50
100
150
200
102
Incident Energy (MeV)
48-Cd-103

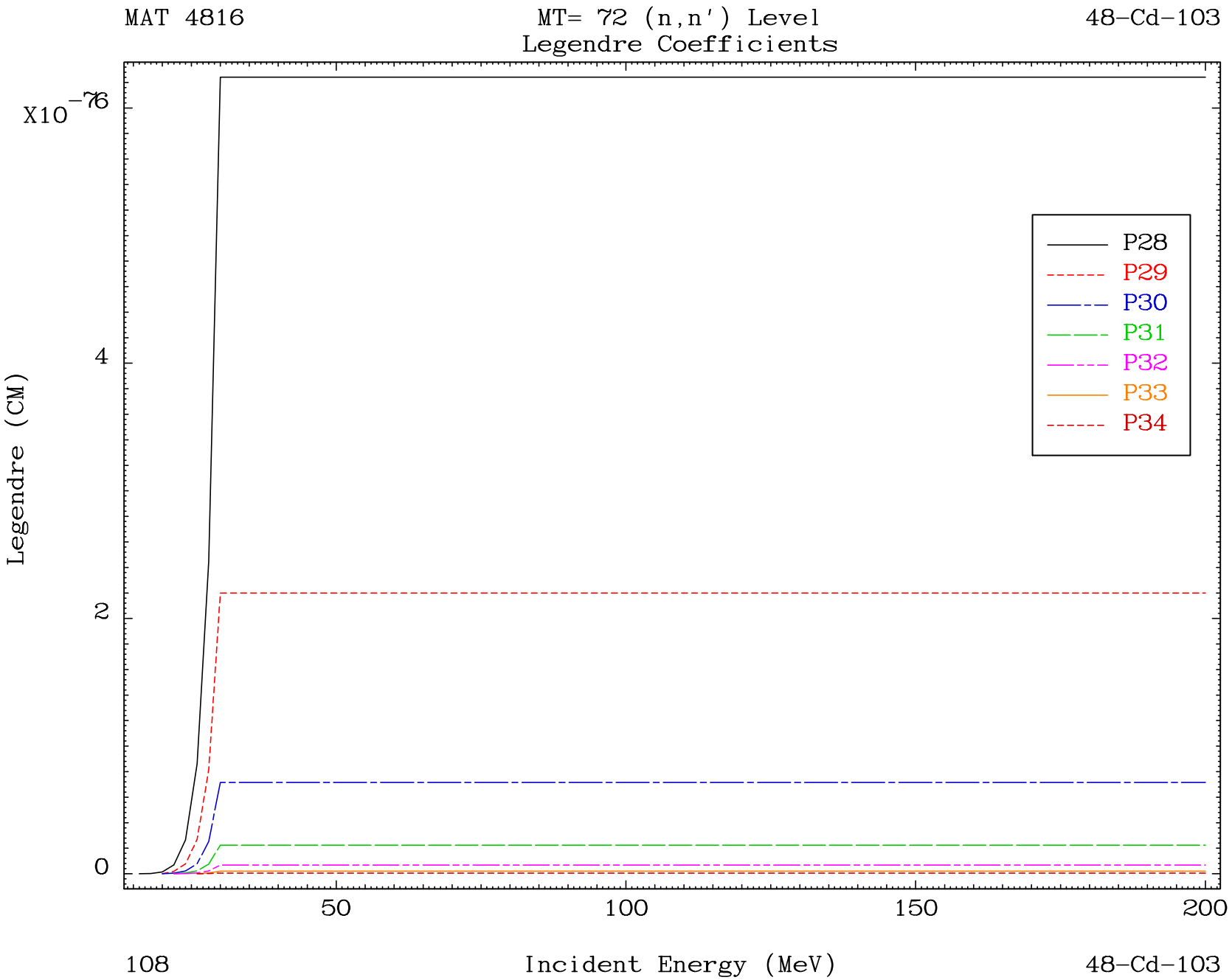

MAT 4816
MT= 71 (n,n') Level
Legendre Coefficients
48-Cd-103
0.0
X10^-3
-0.5
-1.0
-1.5
-2.0
-2.5
Legendre (CM)
50
100
150
200
103
Incident Energy (MeV)
48-Cd-103
P19
P20
P21
P22
P23
P24
P25
P26
P27

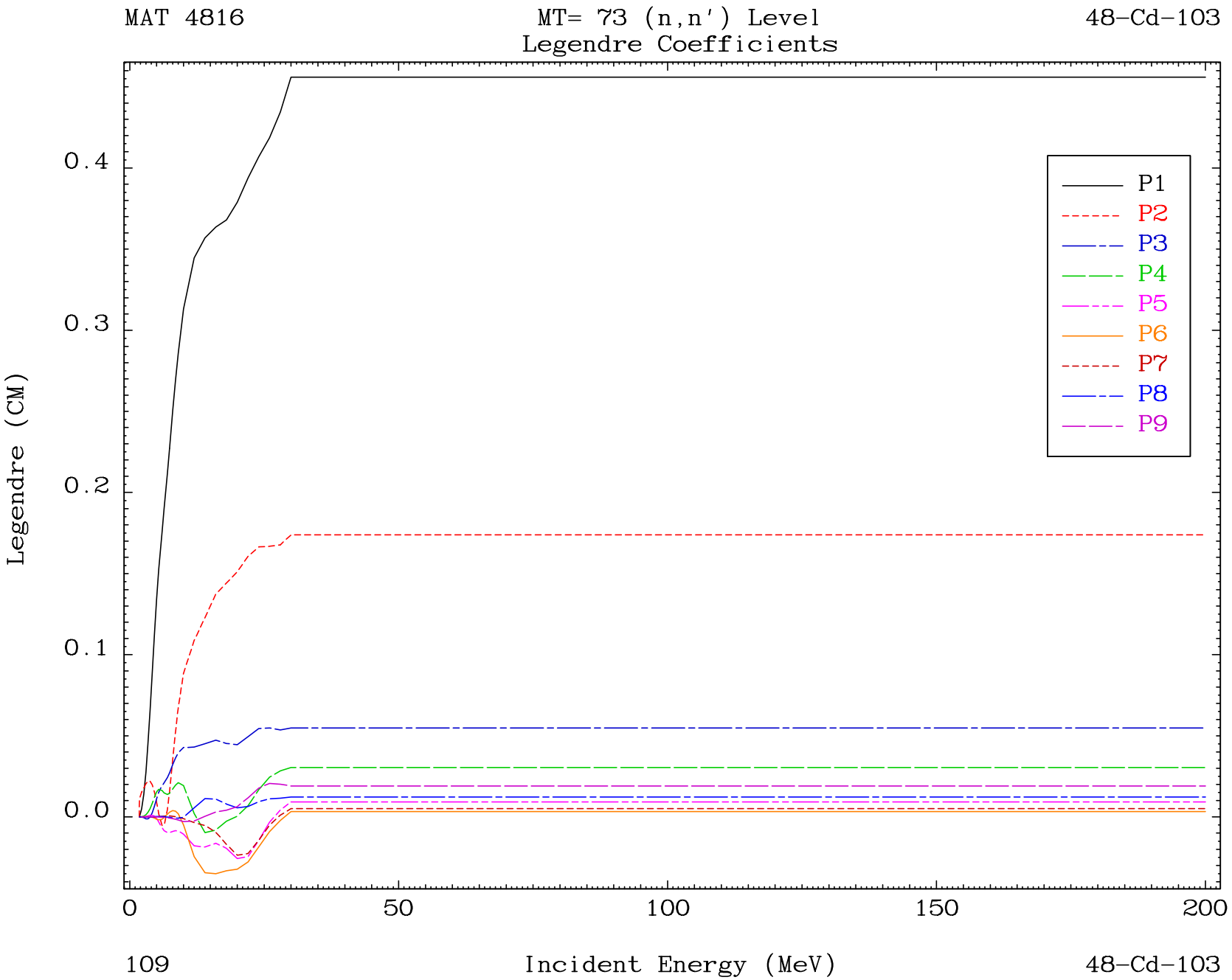

MAT 4816
MT= 71 (n,n') Level
Legendre Coefficients
48-Cd-103
X10-7
0
-2
-4
-6
-8
Legendre (CM)
50
100
150
200
104
Incident Energy (MeV)
48-Cd-103
P28
P29
P30
P31
P32
P33
P34

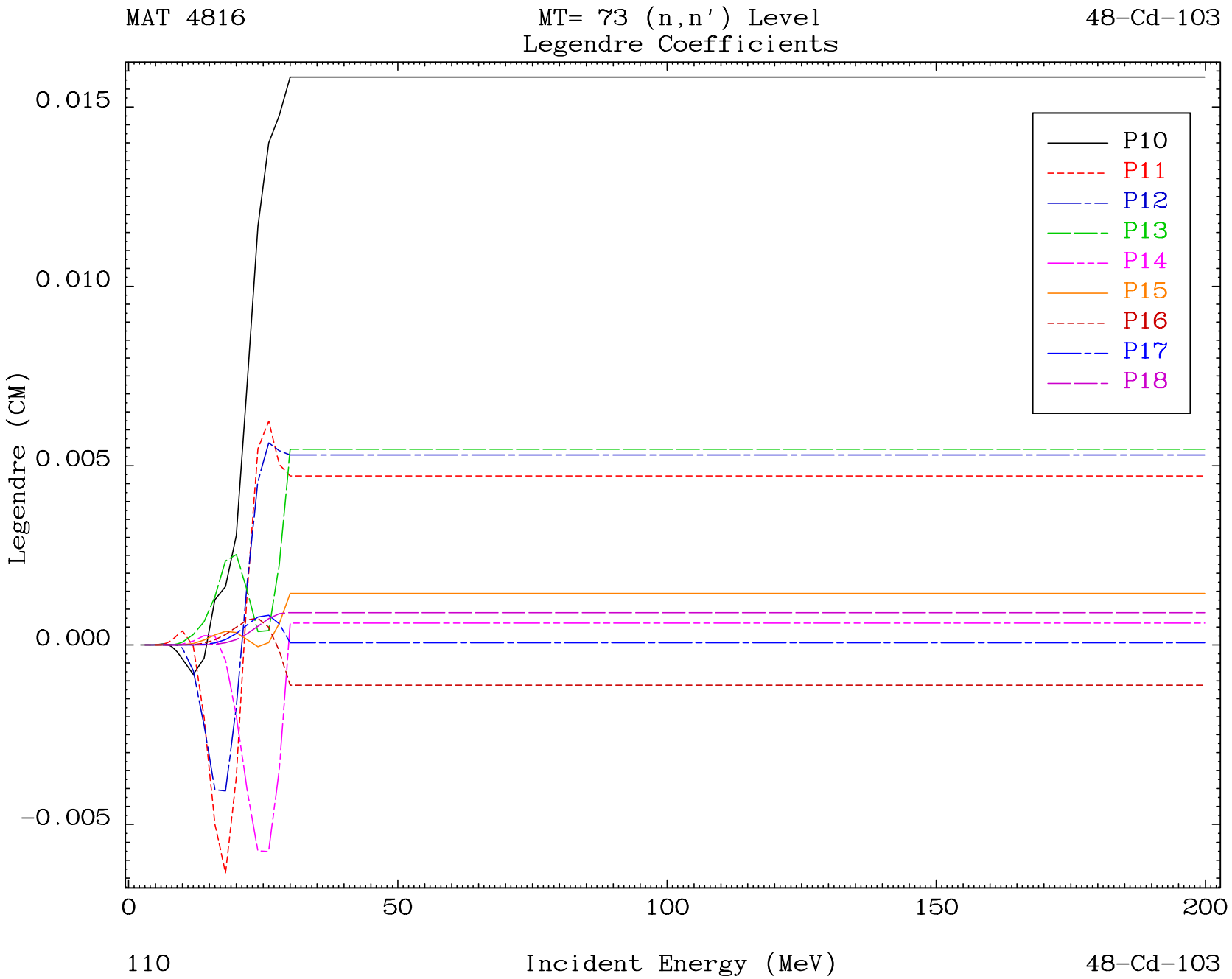

MAT 4816
MT= 72 (n,n') Level
Legendre Coefficients
48-Cd-103
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
105
Incident Energy (MeV)
48-Cd-103

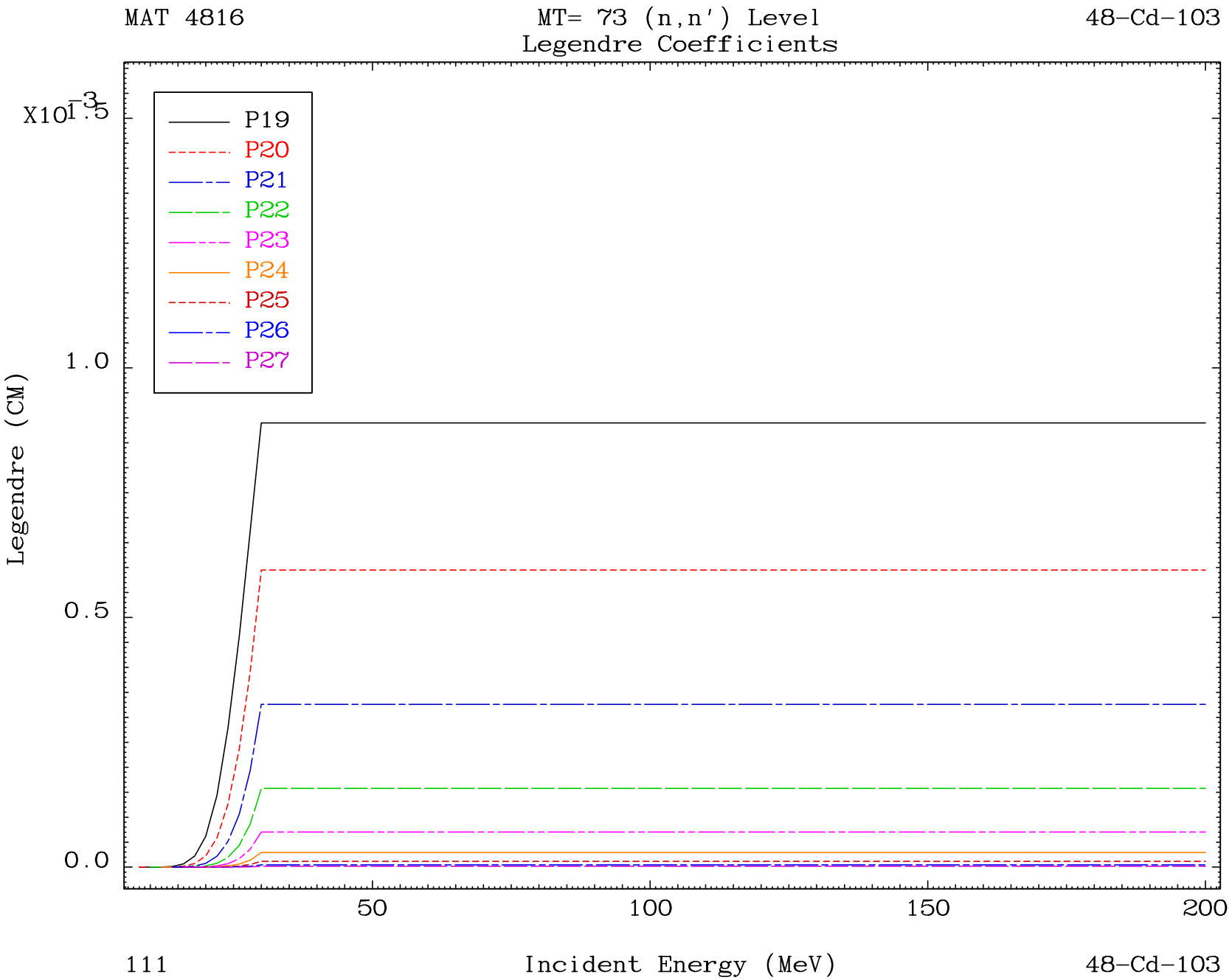

MAT 4816
MT= 72 (n,n') Level
Legendre Coefficients
48-Cd-103
0.015
0.010
0.005
0.000
-0.005
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
106
Incident Energy (MeV)
48-Cd-103

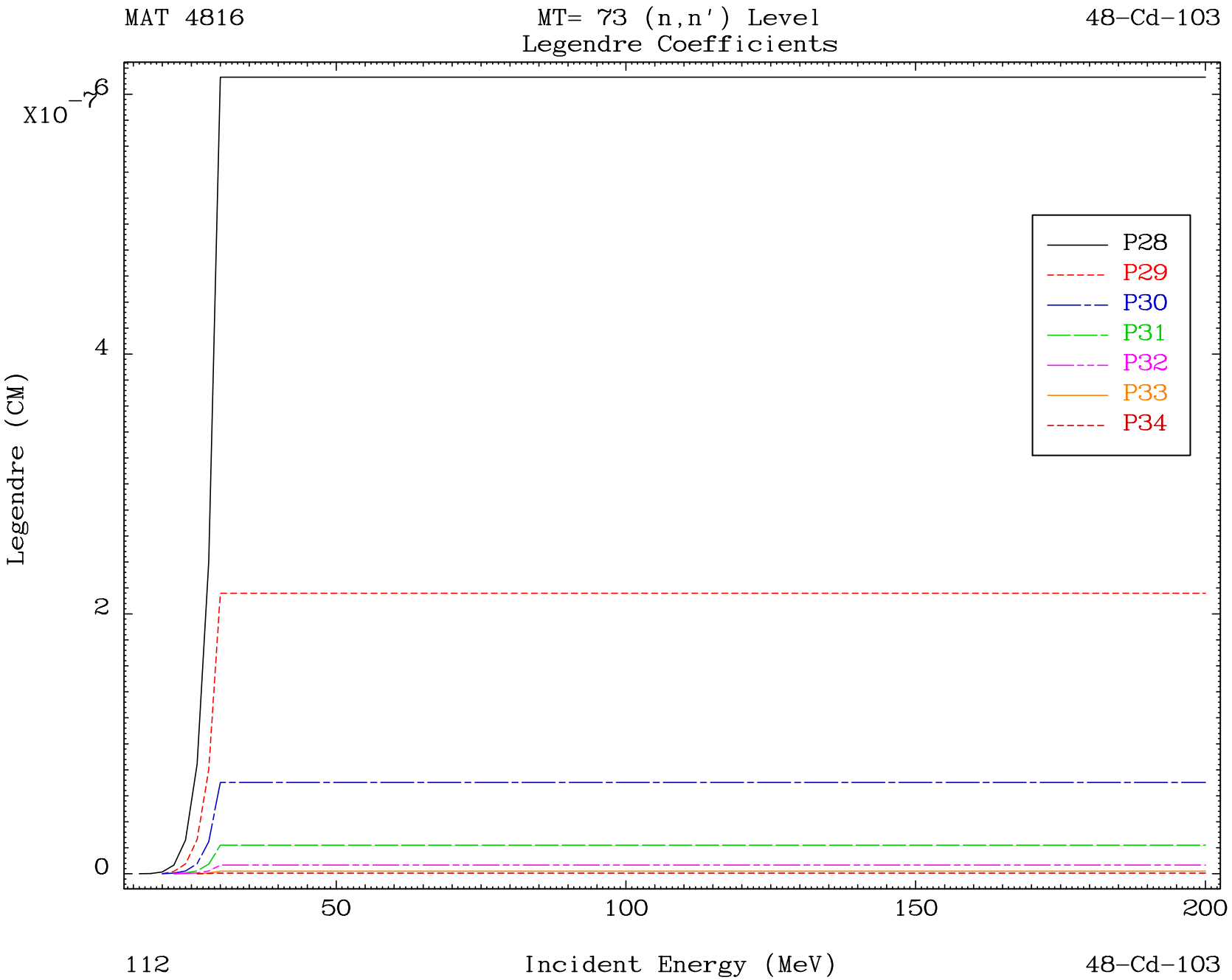

MAT 4816
MT= 72 (n,n') Level
Legendre Coefficients
48-Cd-103
X10-3
1.5
1.0
0.5
0.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
107
Incident Energy (MeV)
48-Cd-103

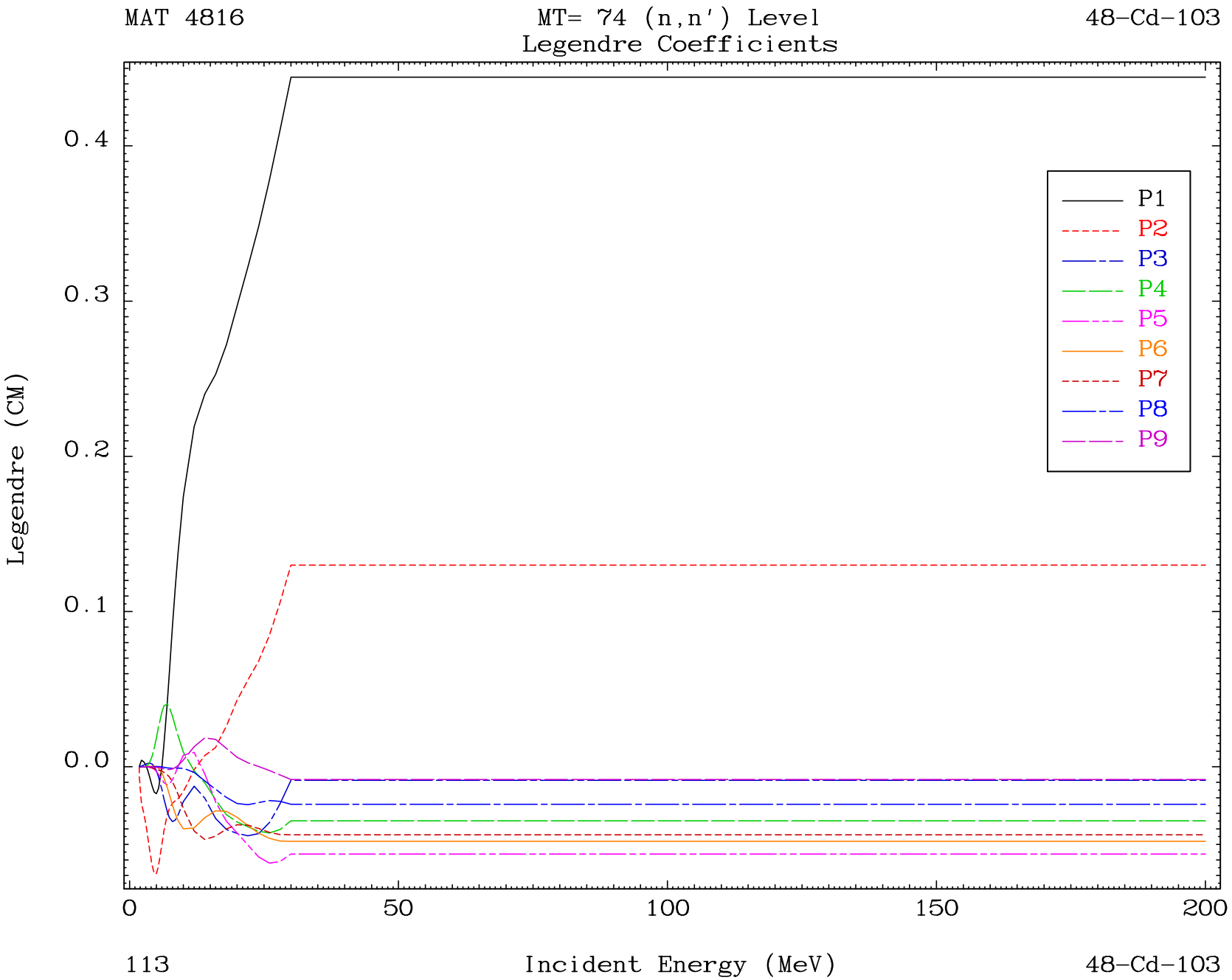

MAT 4816
MT= 72 (n,n') Level
Legendre Coefficients
48-Cd-103
X10^-76
4
2
0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
108
Incident Energy (MeV)
48-Cd-103

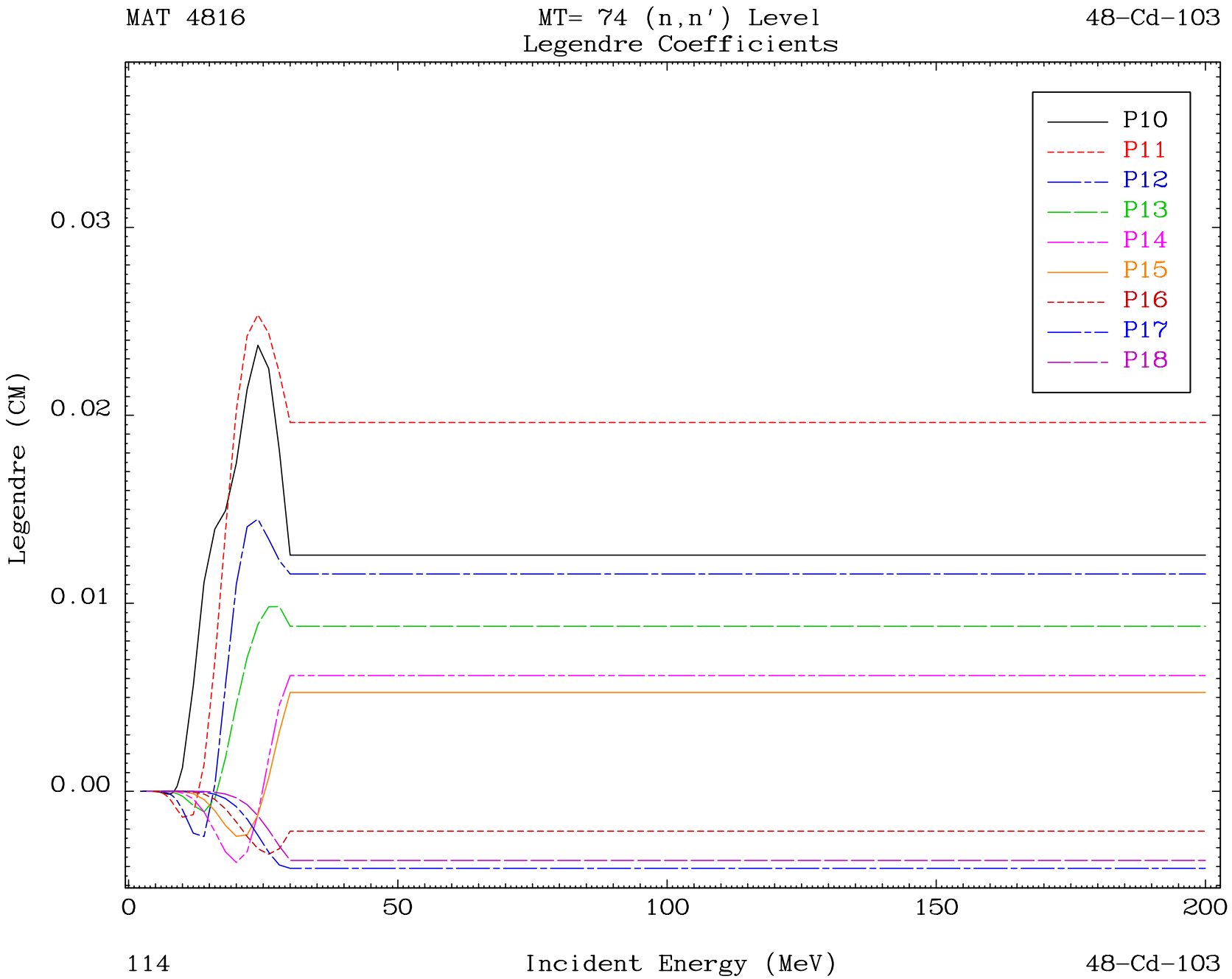

MAT 4816
MT= 73 (n,n') Level
Legendre Coefficients
48-Cd-103
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
109
Incident Energy (MeV)
48-Cd-103

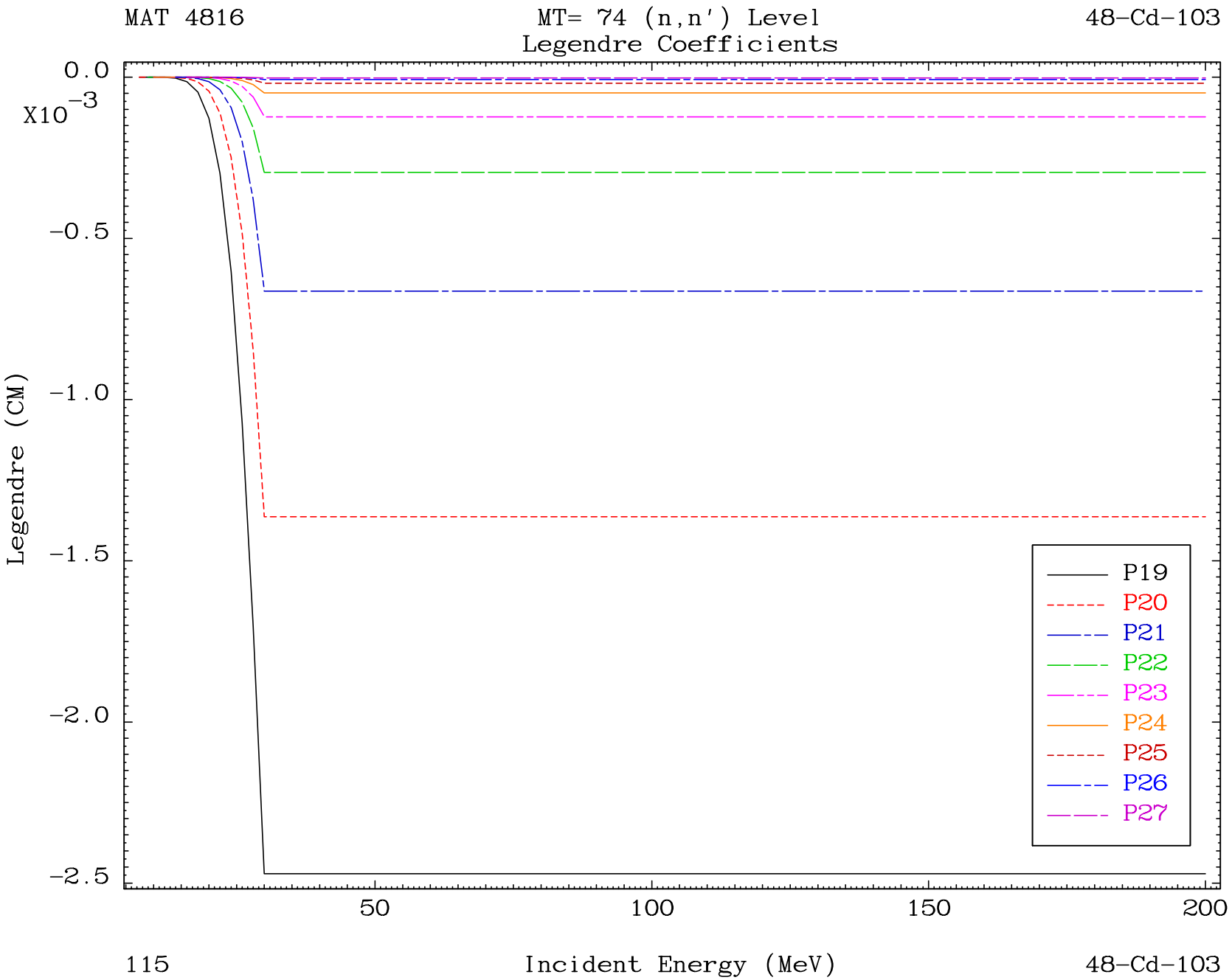

MAT 4816
MT= 73 (n,n') Level
Legendre Coefficients
48-Cd-103
0.015
0.010
0.005
0.000
-0.005
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
110
Incident Energy (MeV)
48-Cd-103

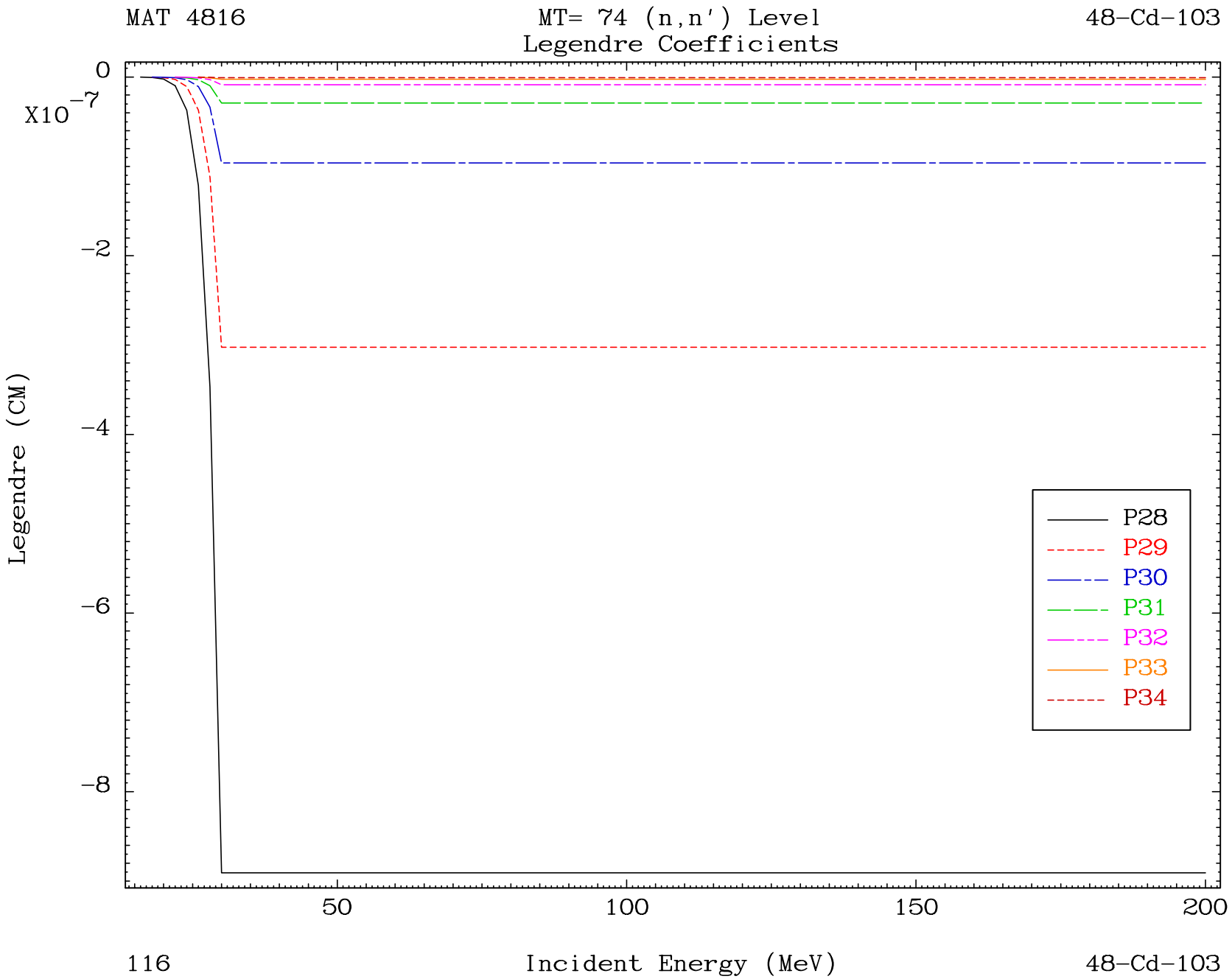

MAT 4816
MT= 73 (n,n') Level
Legendre Coefficients
48-Cd-103
X10-3
1.5
1.0
0.5
0.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
111
Incident Energy (MeV)
48-Cd-103

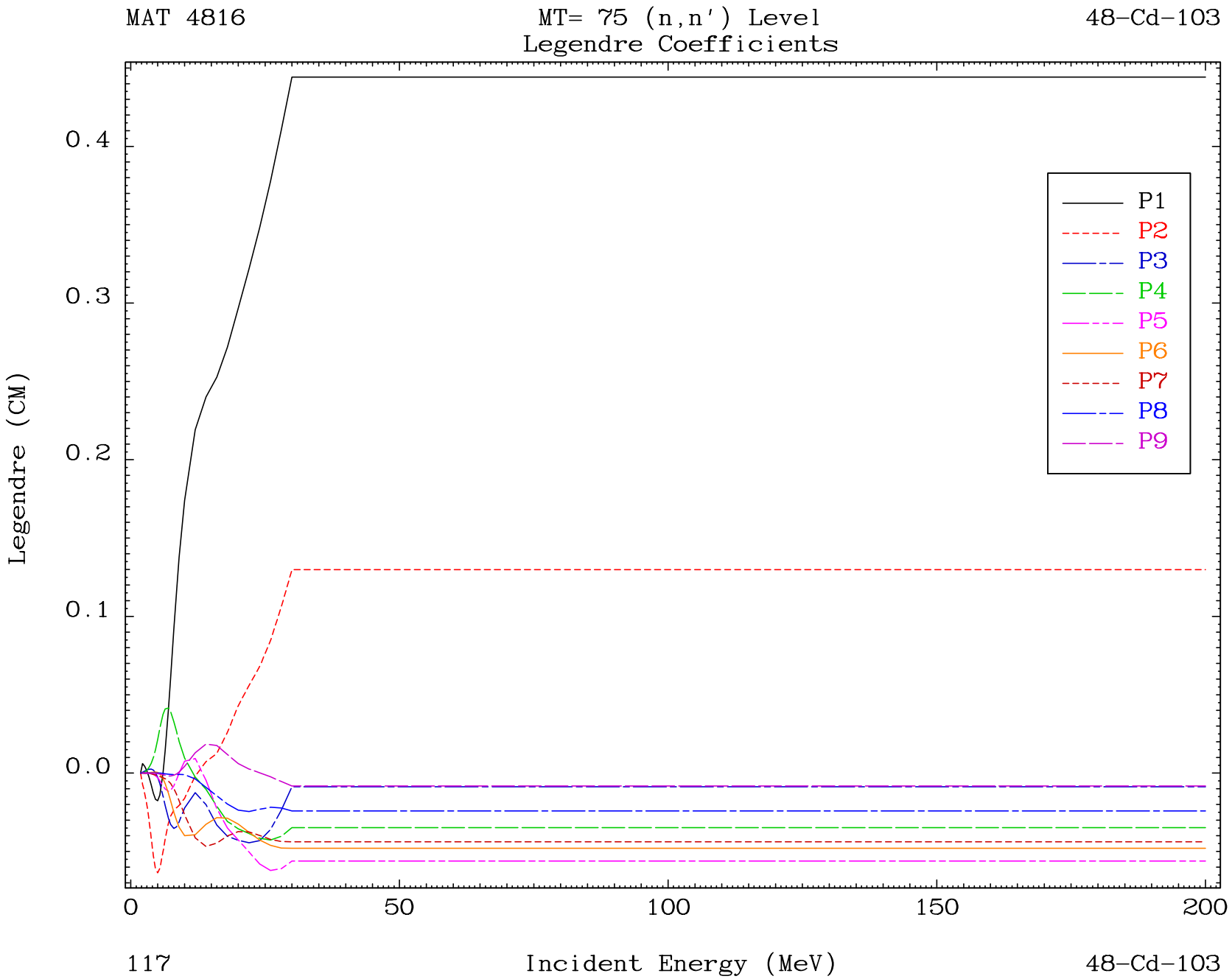

MAT 4816
MT= 73 (n,n') Level
Legendre Coefficients
48-Cd-103
X10-6
4
2
0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
112
Incident Energy (MeV)
48-Cd-103

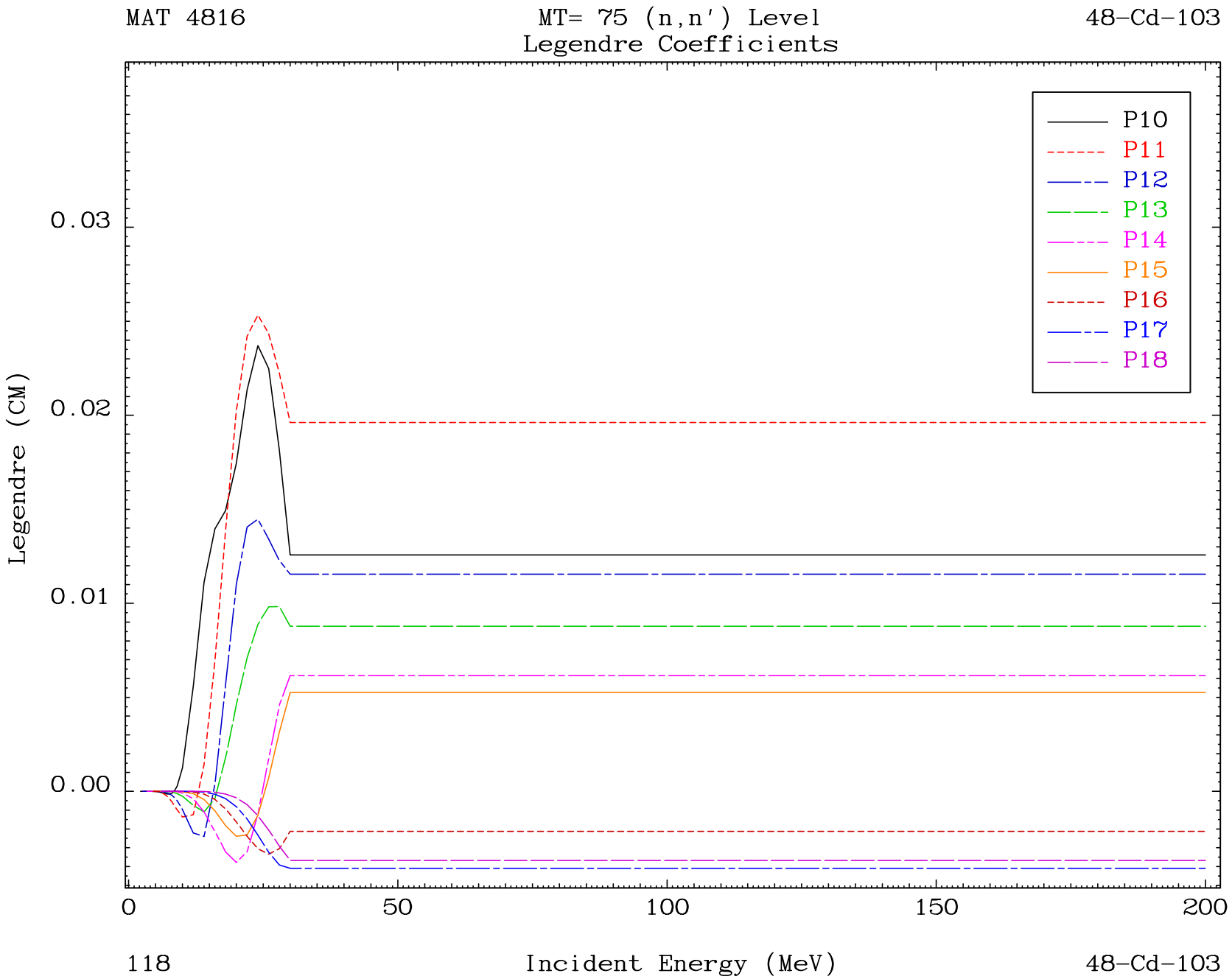

MAT 4816
MT= 74 (n,n') Level
Legendre Coefficients
48-Cd-103
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
113
Incident Energy (MeV)
48-Cd-103

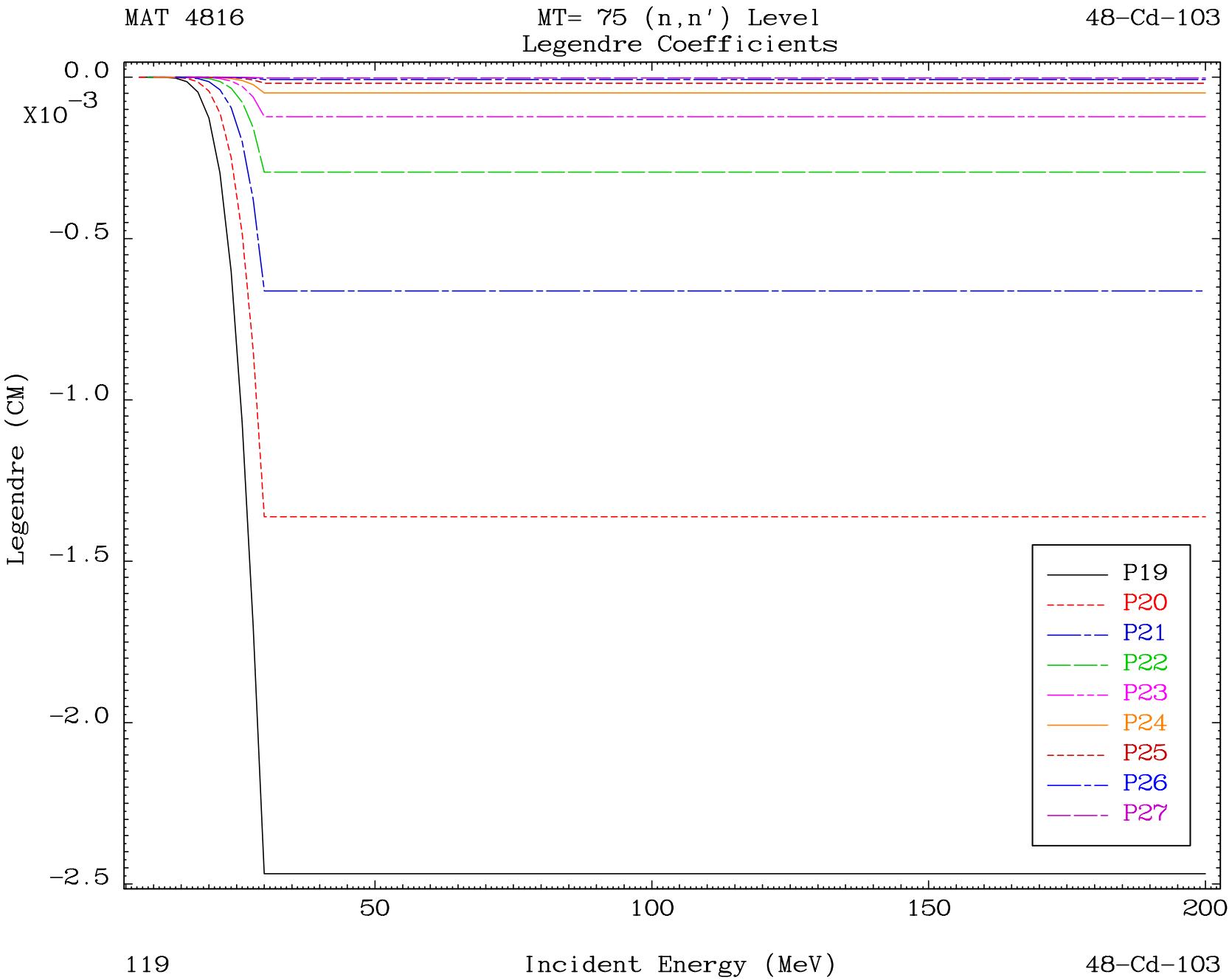

MAT 4816
MT= 74 (n,n') Level
Legendre Coefficients
48-Cd-103
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.03
0.02
0.01
0.00
Legendre (CM)
0
50
100
150
200
114
Incident Energy (MeV)
48-Cd-103

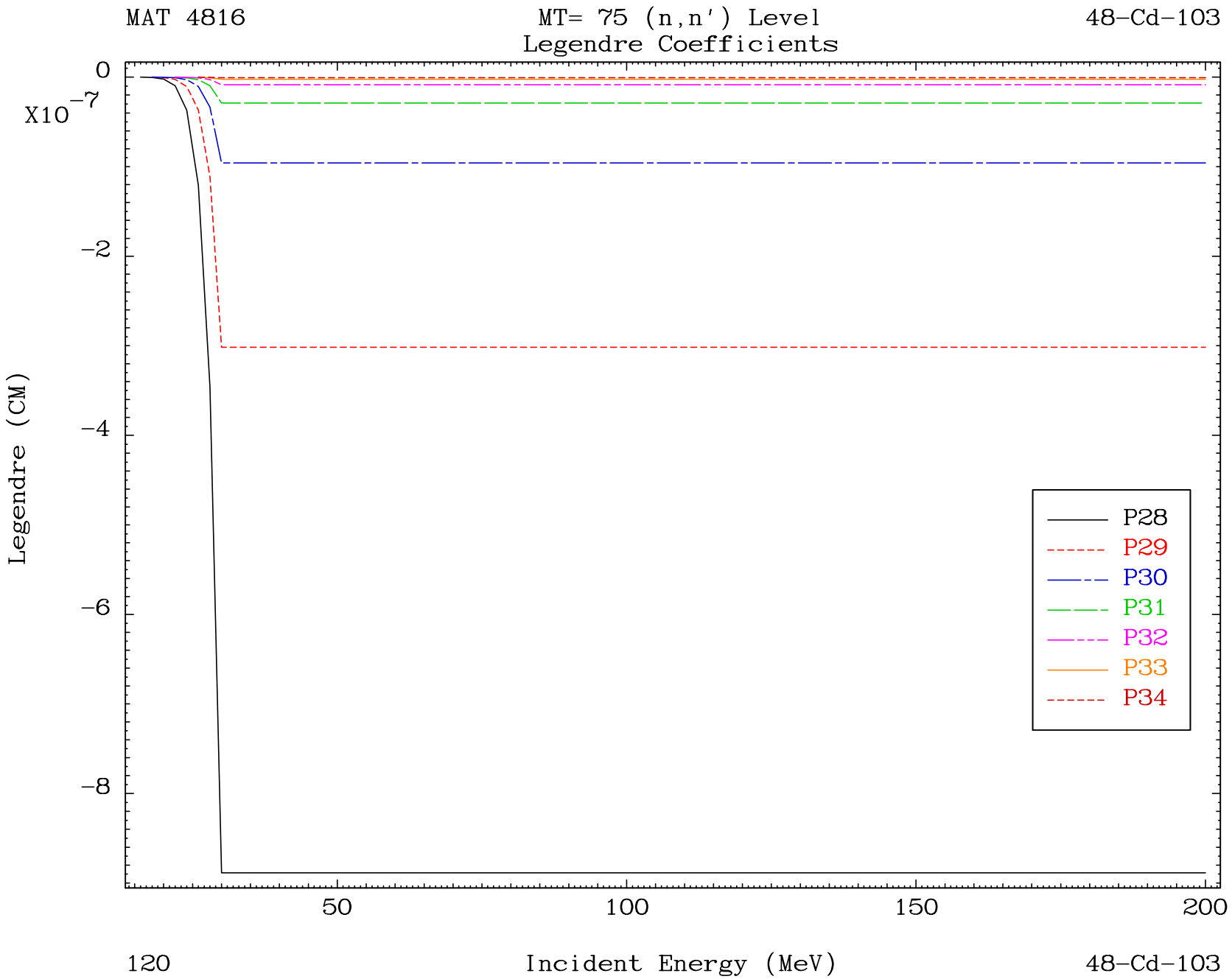

MAT 4816
MT= 74 (n,n') Level
Legendre Coefficients
48-Cd-103
0.0
X10^-3
-0.5
-1.0
-1.5
-2.0
-2.5
Legendre (CM)
50
100
150
200
115
Incident Energy (MeV)
48-Cd-103
P19
P20
P21
P22
P23
P24
P25
P26
P27

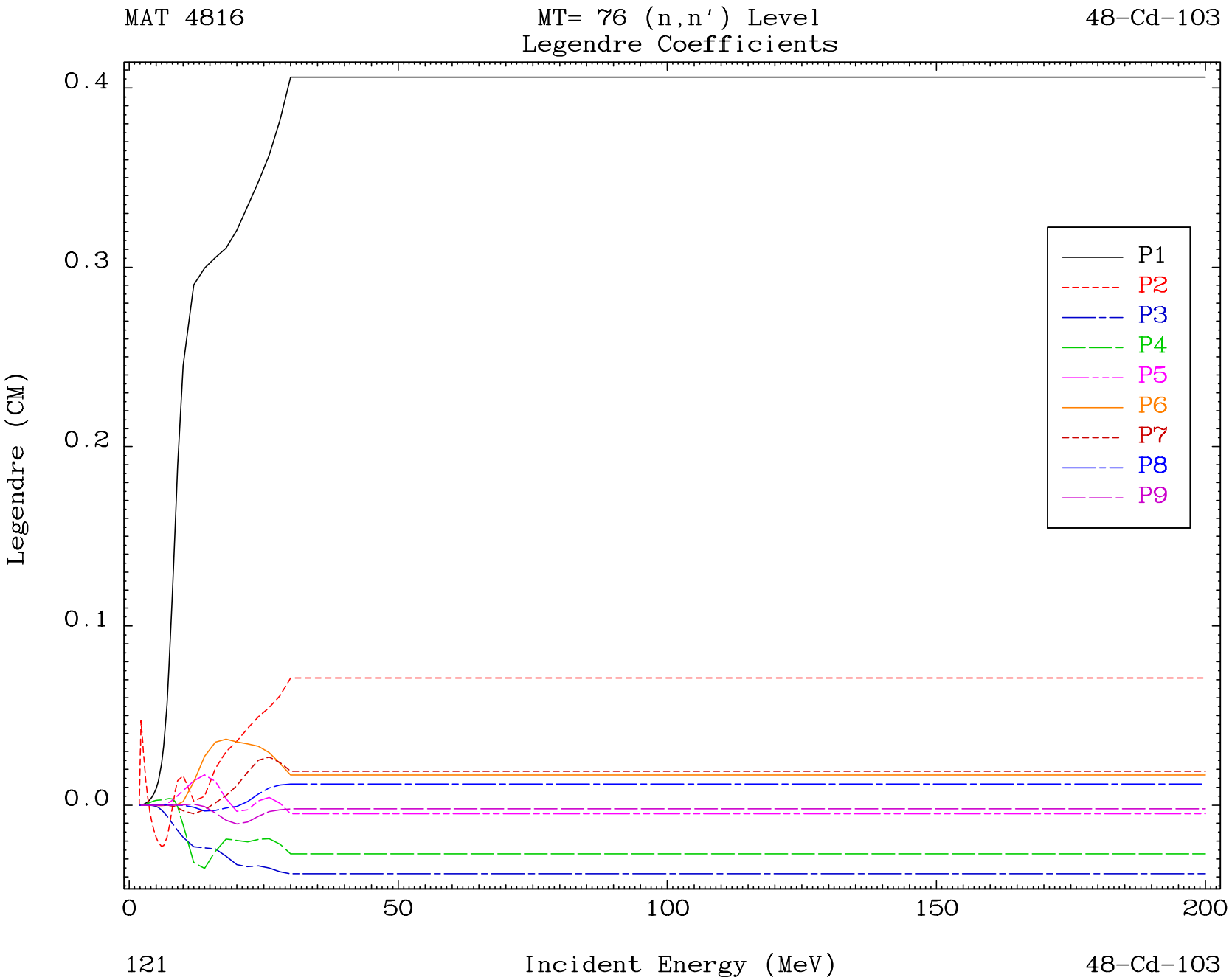

MAT 4816
MT= 74 (n,n') Level
Legendre Coefficients
48-Cd-103
X10-7
0
-2
-4
-6
-8
Legendre (CM)
50
100
150
200
116
Incident Energy (MeV)
48-Cd-103
P28
P29
P30
P31
P32
P33
P34

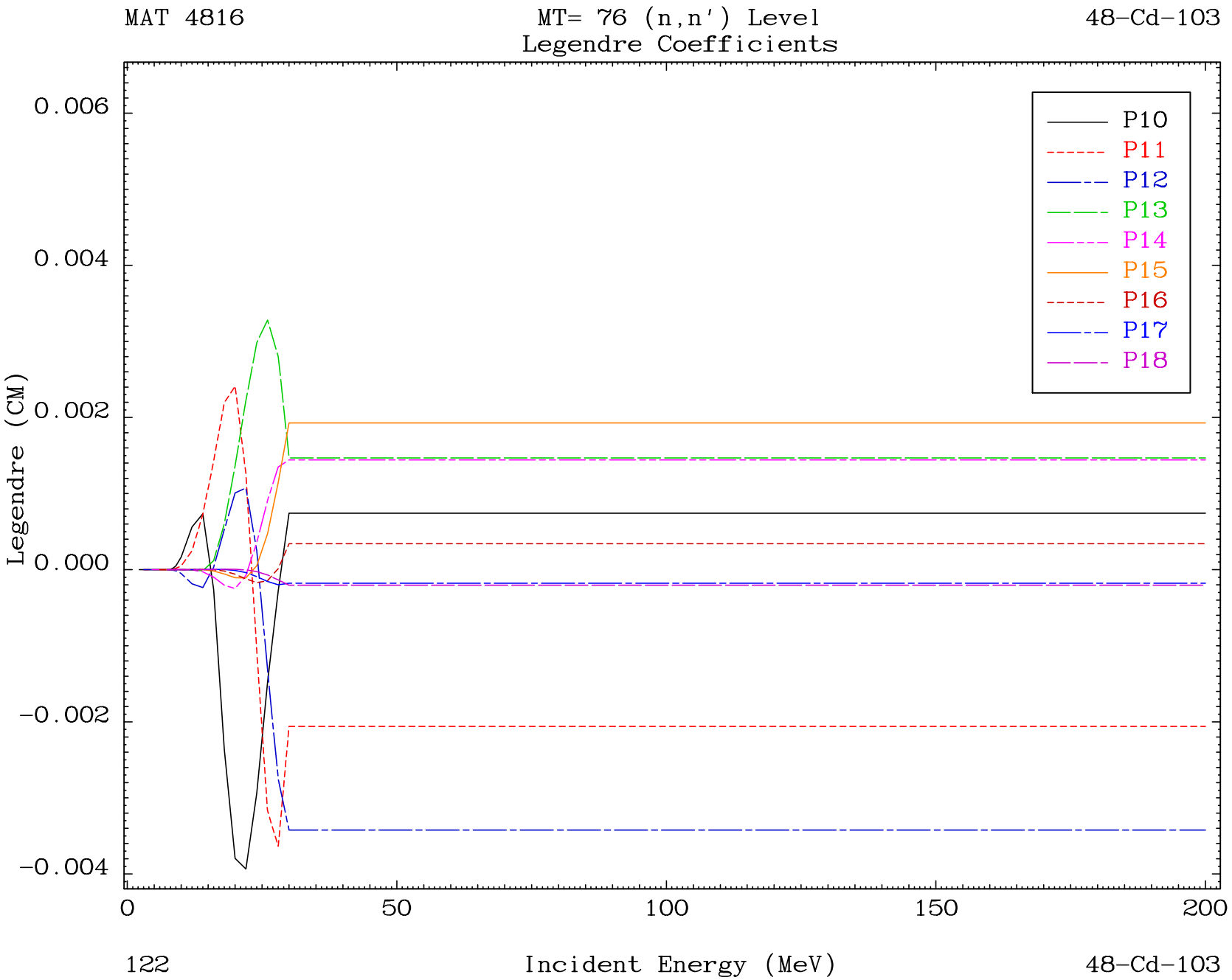

MAT 4816
MT= 75 (n,n') Level
Legendre Coefficients
48-Cd-103
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
117
Incident Energy (MeV)
48-Cd-103

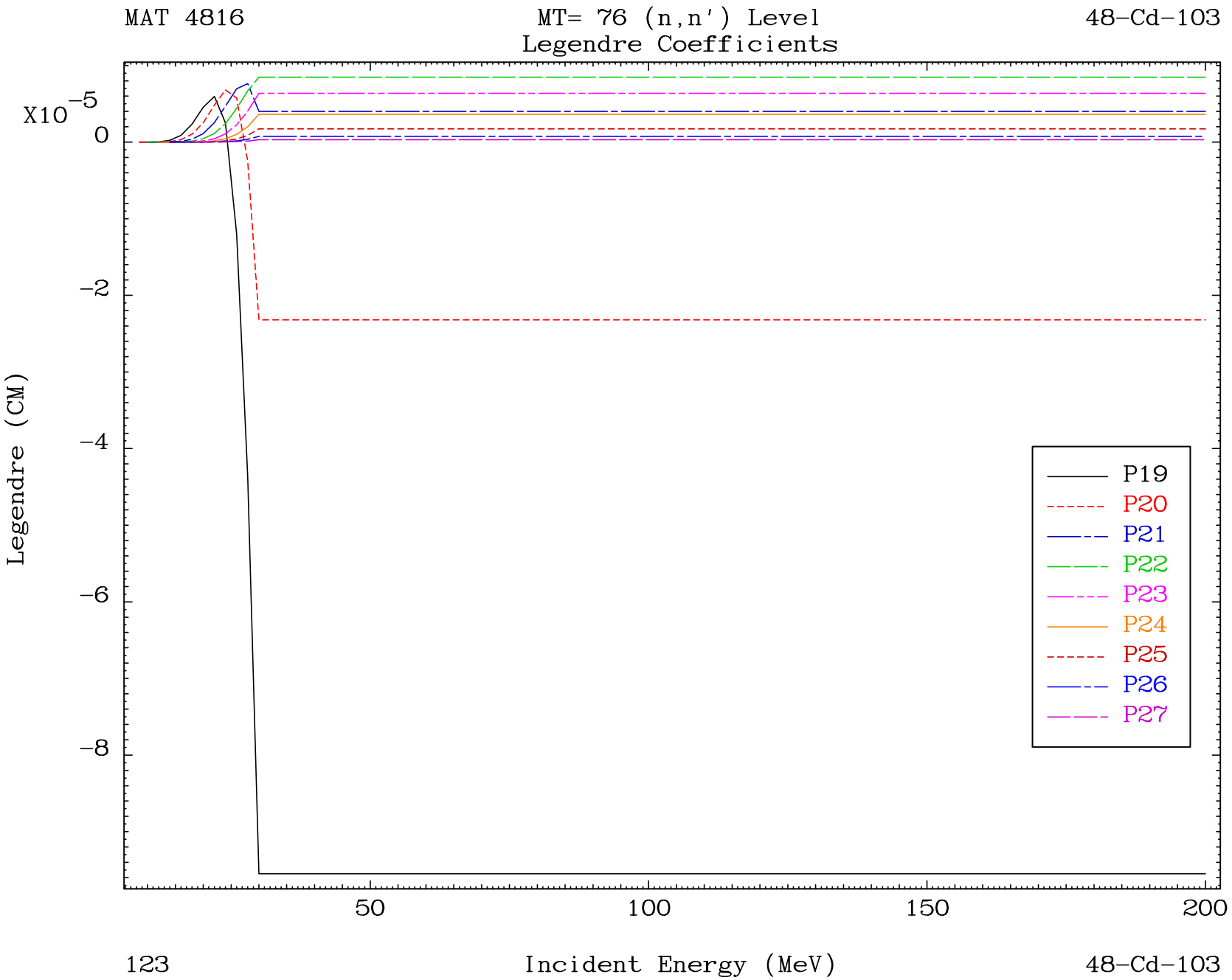

MAT 4816
MT= 75 (n,n') Level
Legendre Coefficients
48-Cd-103
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.03
0.02
0.01
0.00
Legendre (CM)
0
50
100
150
200
118
Incident Energy (MeV)
48-Cd-103

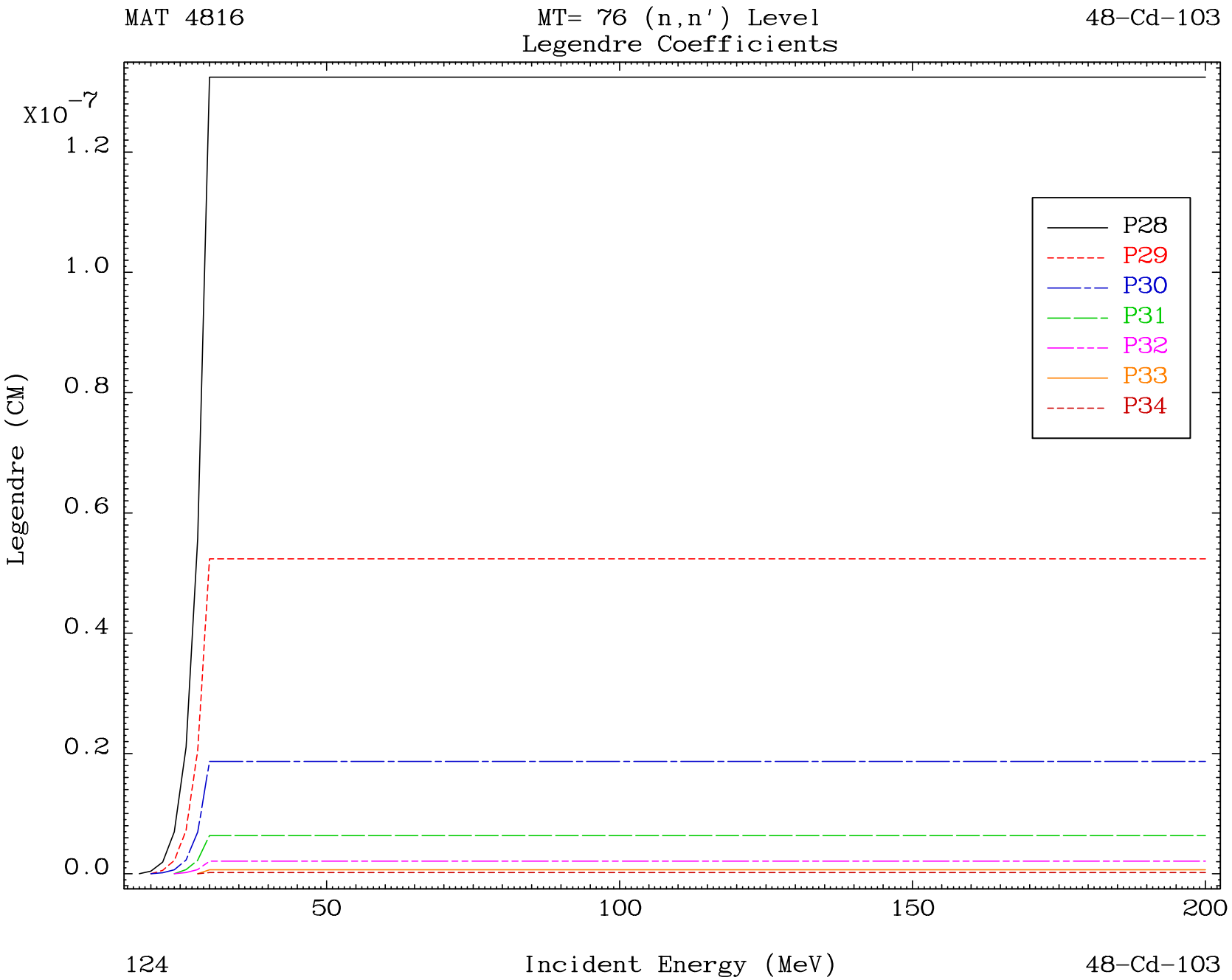

MAT 4816
MT= 75 (n,n') Level
Legendre Coefficients
48-Cd-103
0.0
X10^-3
-0.5
-1.0
-1.5
-2.0
-2.5
Legendre (CM)
50
100
150
200
119
Incident Energy (MeV)
48-Cd-103
P19
P20
P21
P22
P23
P24
P25
P26
P27

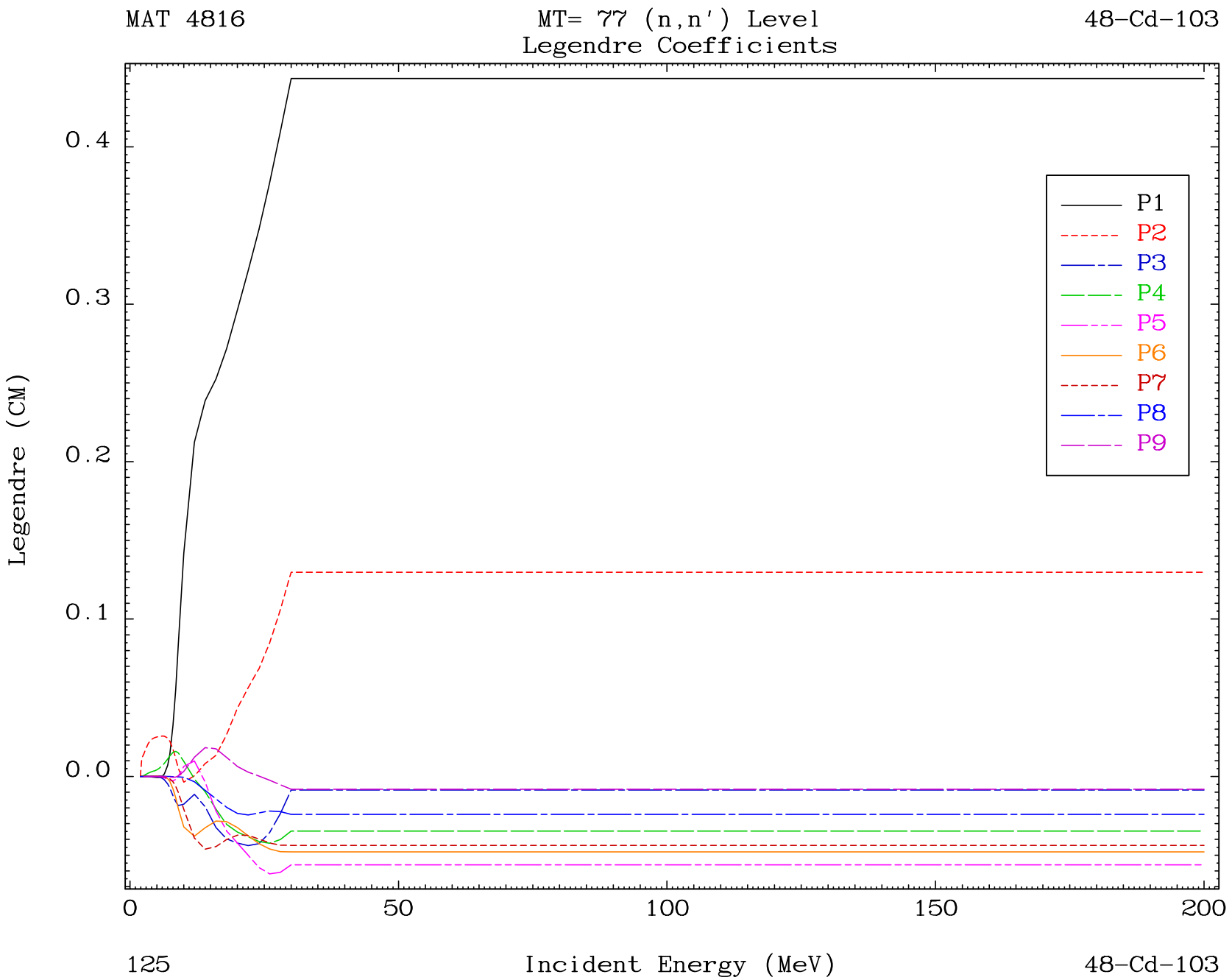

MAT 4816
MT= 75 (n,n') Level
Legendre Coefficients
48-Cd-103
X10-7
0
-2
-4
-6
-8
Legendre (CM)
50
100
150
200
120
Incident Energy (MeV)
48-Cd-103
P28
P29
P30
P31
P32
P33
P34

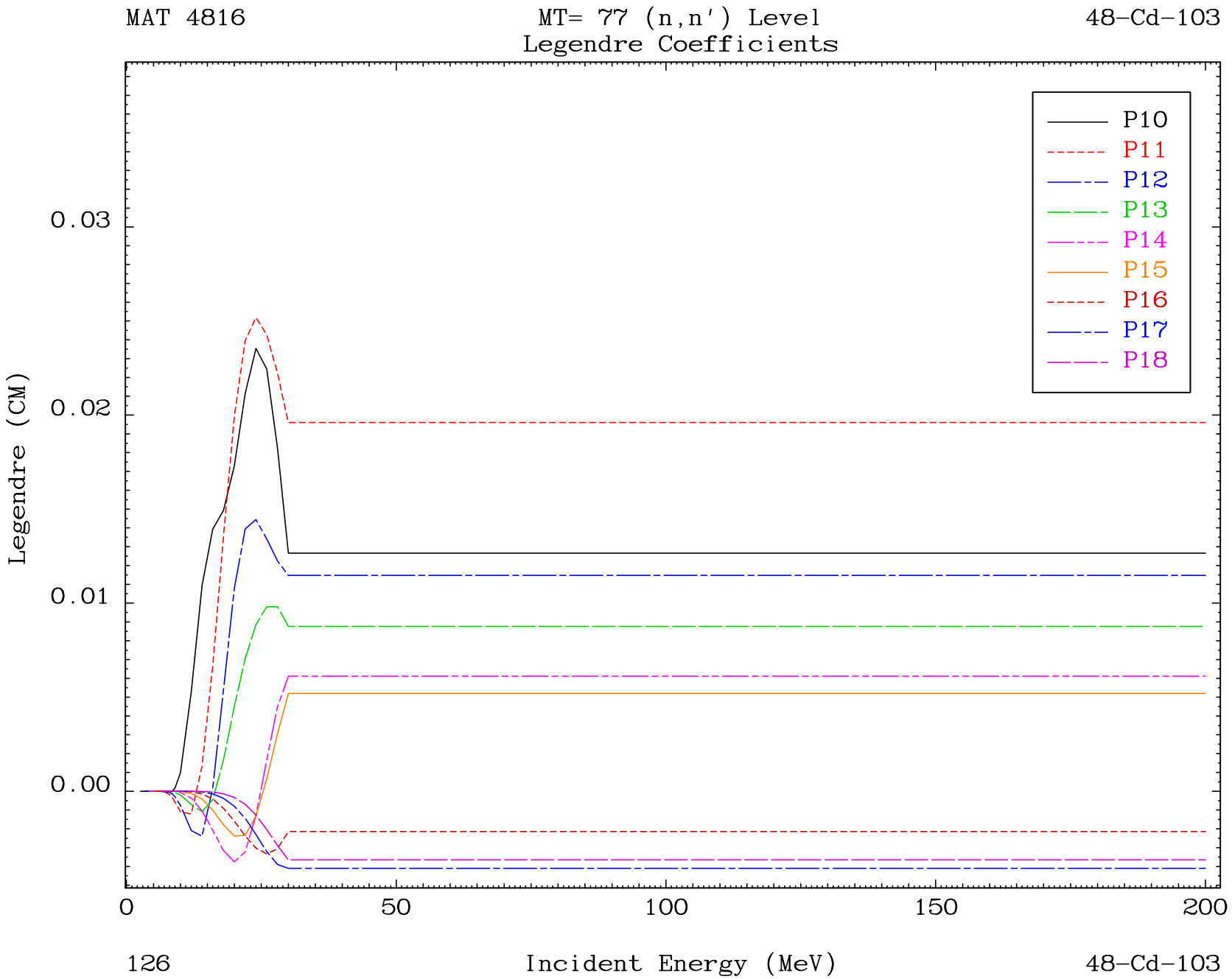

MAT 4816
MT= 76 (n,n') Level
Legendre Coefficients
48-Cd-103
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
121
Incident Energy (MeV)
48-Cd-103

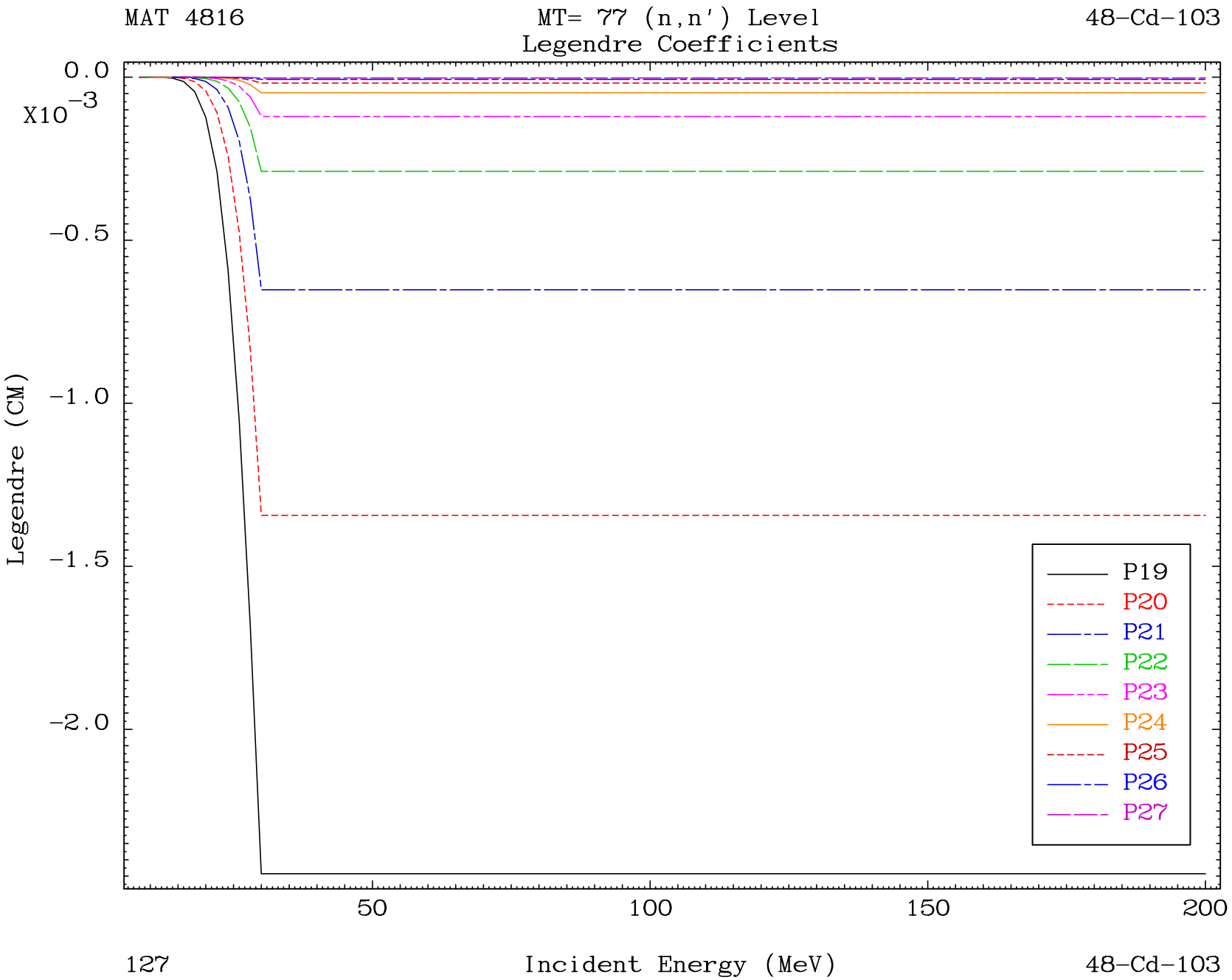

MAT 4816
MT= 76 (n,n') Level
Legendre Coefficients
48-Cd-103
0.006
0.004
0.002
0.000
-0.002
-0.004
Legendre (CM)
0
50
100
150
200
122
Incident Energy (MeV)
48-Cd-103
P10
P11
P12
P13
P14
P15
P16
P17
P18

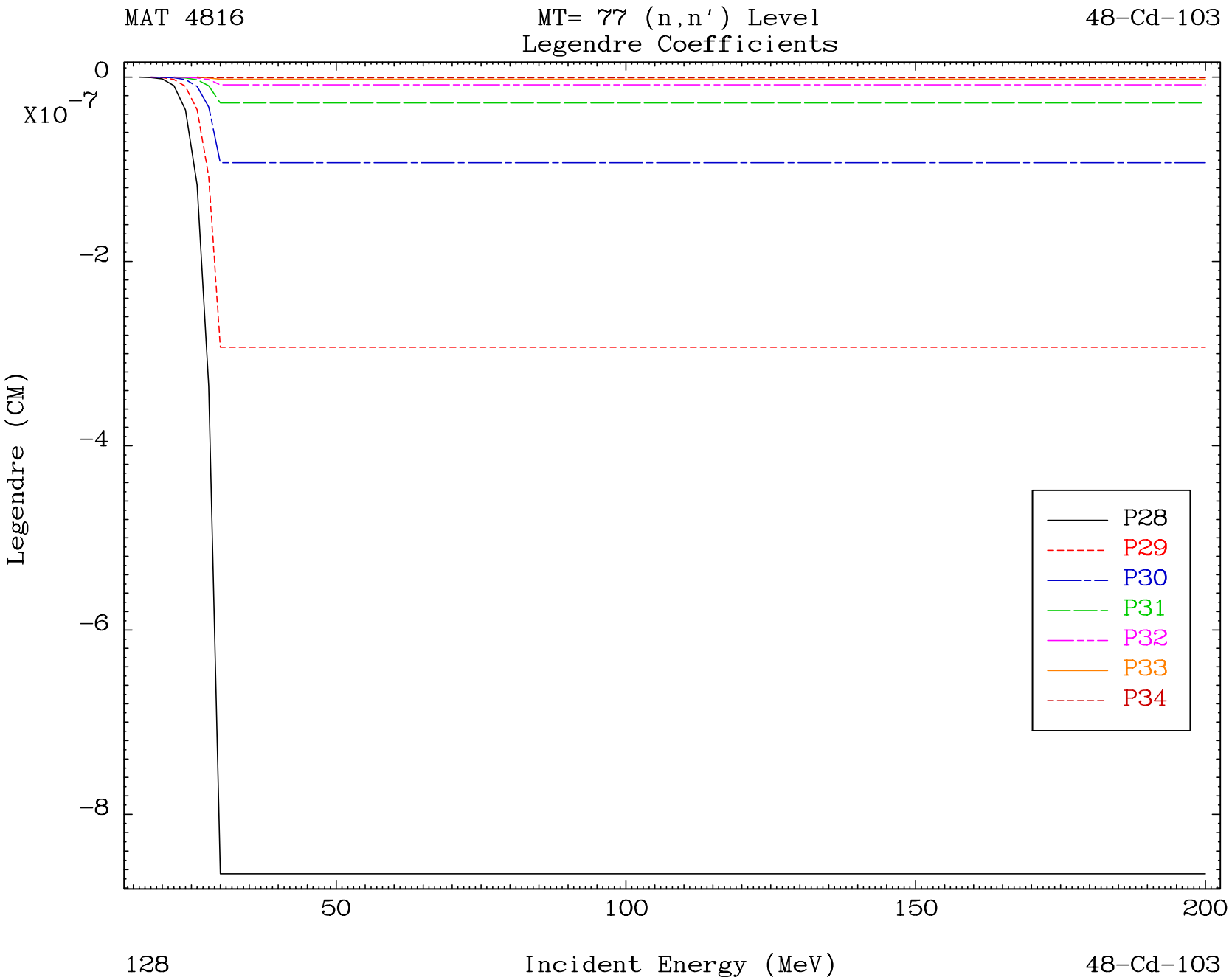

MAT 4816
MT= 76 (n,n') Level
Legendre Coefficients
48-Cd-103
X10 −5
0
−2
−4
−6
−8
Legendre (CM)
50
100
150
200
123
Incident Energy (MeV)
48-Cd-103
P19
P20
P21
P22
P23
P24
P25
P26
P27

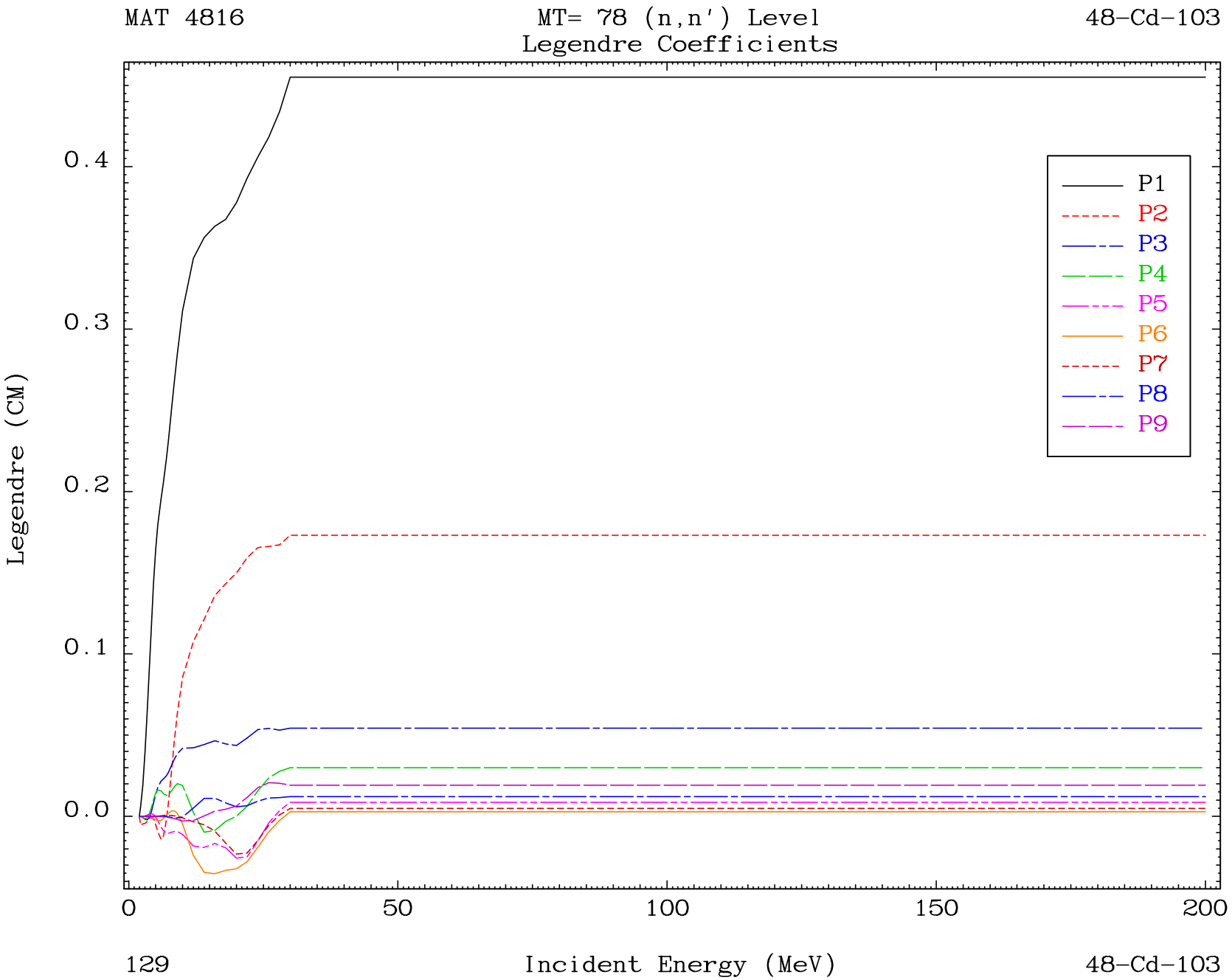

MAT 4816
MT= 76 (n,n') Level
Legendre Coefficients
48-Cd-103
X10^-7
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
124
Incident Energy (MeV)
48-Cd-103

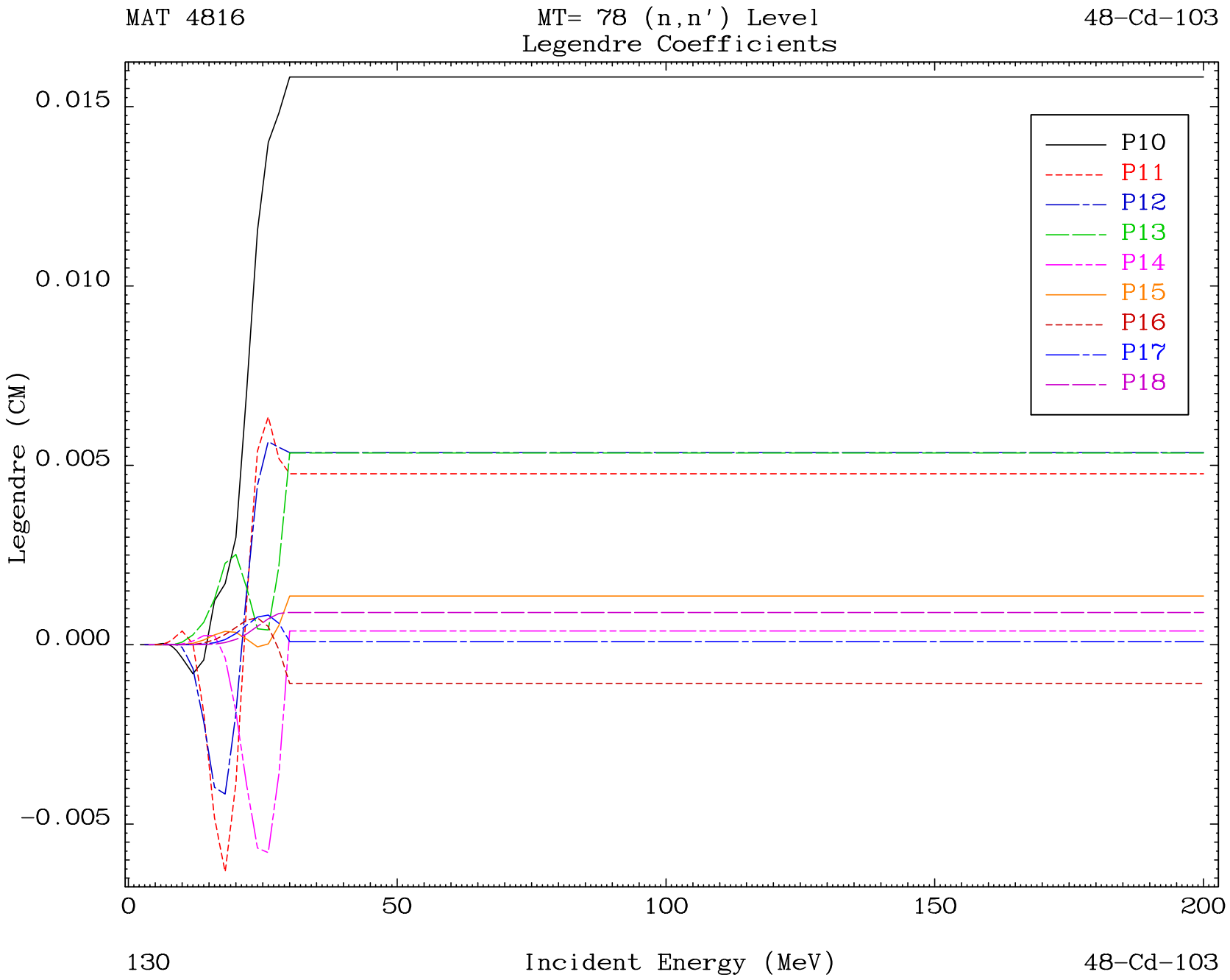

MAT 4816
MT= 77 (n,n') Level
Legendre Coefficients
48-Cd-103
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
125
Incident Energy (MeV)
48-Cd-103

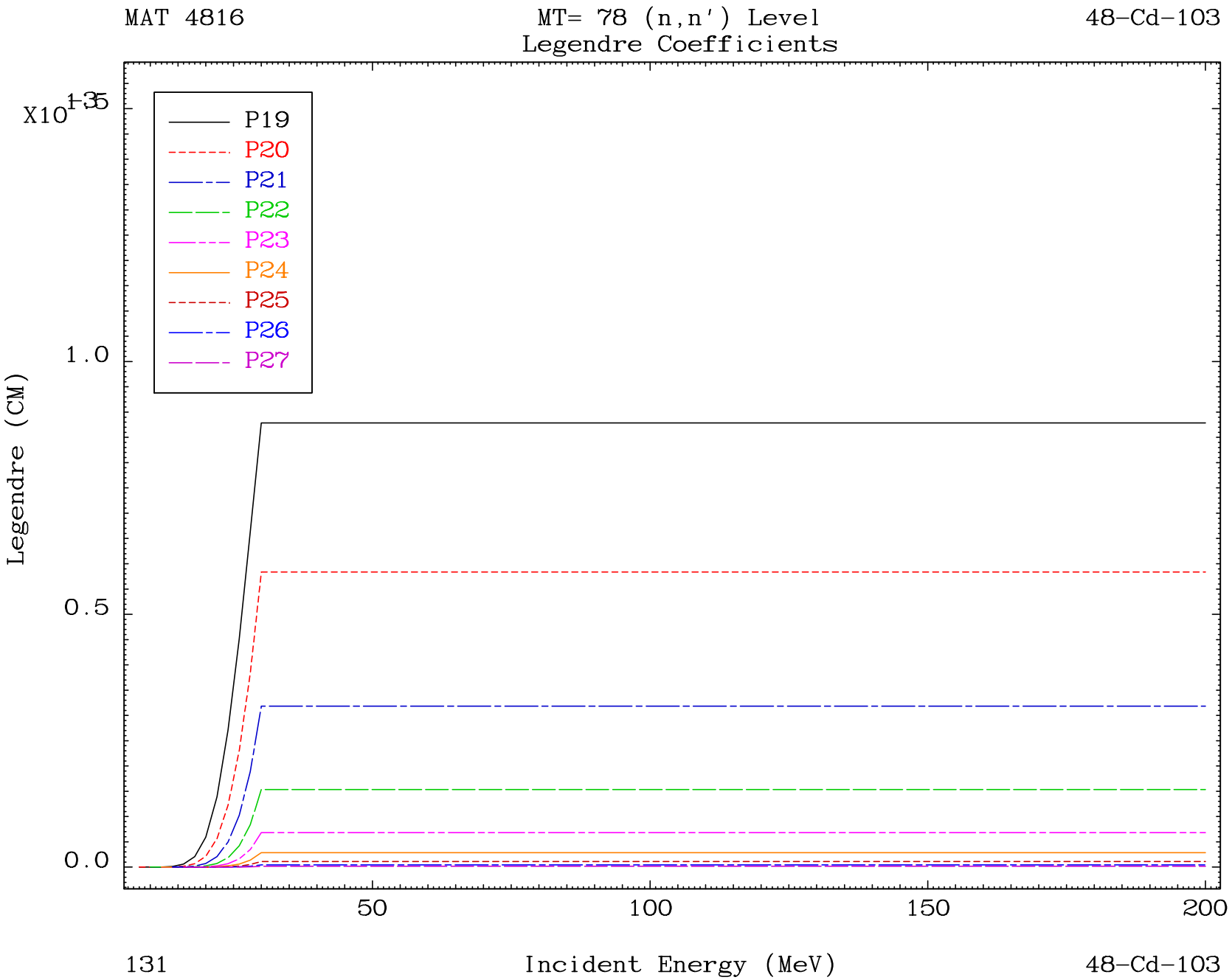

MAT 4816
MT= 77 (n,n') Level
Legendre Coefficients
48-Cd-103
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.03
0.02
0.01
0.00
Legendre (CM)
0
50
100
150
200
126
Incident Energy (MeV)
48-Cd-103

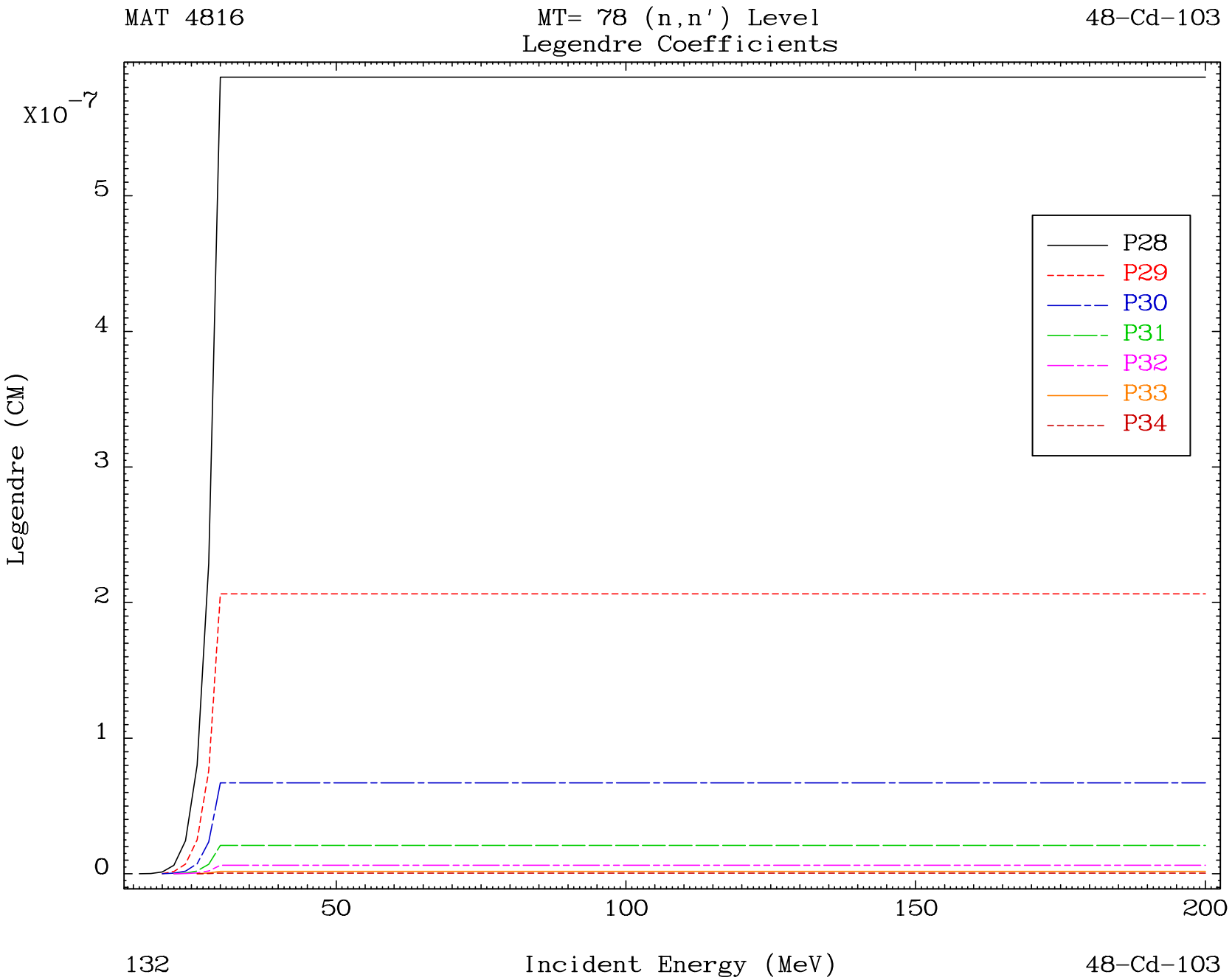

MAT 4816
MT= 77 (n,n') Level
Legendre Coefficients
48-Cd-103
0.0
X10^-3
-0.5
-1.0
-1.5
-2.0
Legendre (CM)
50
100
150
200
127
Incident Energy (MeV)
48-Cd-103
P19
P20
P21
P22
P23
P24
P25
P26
P27

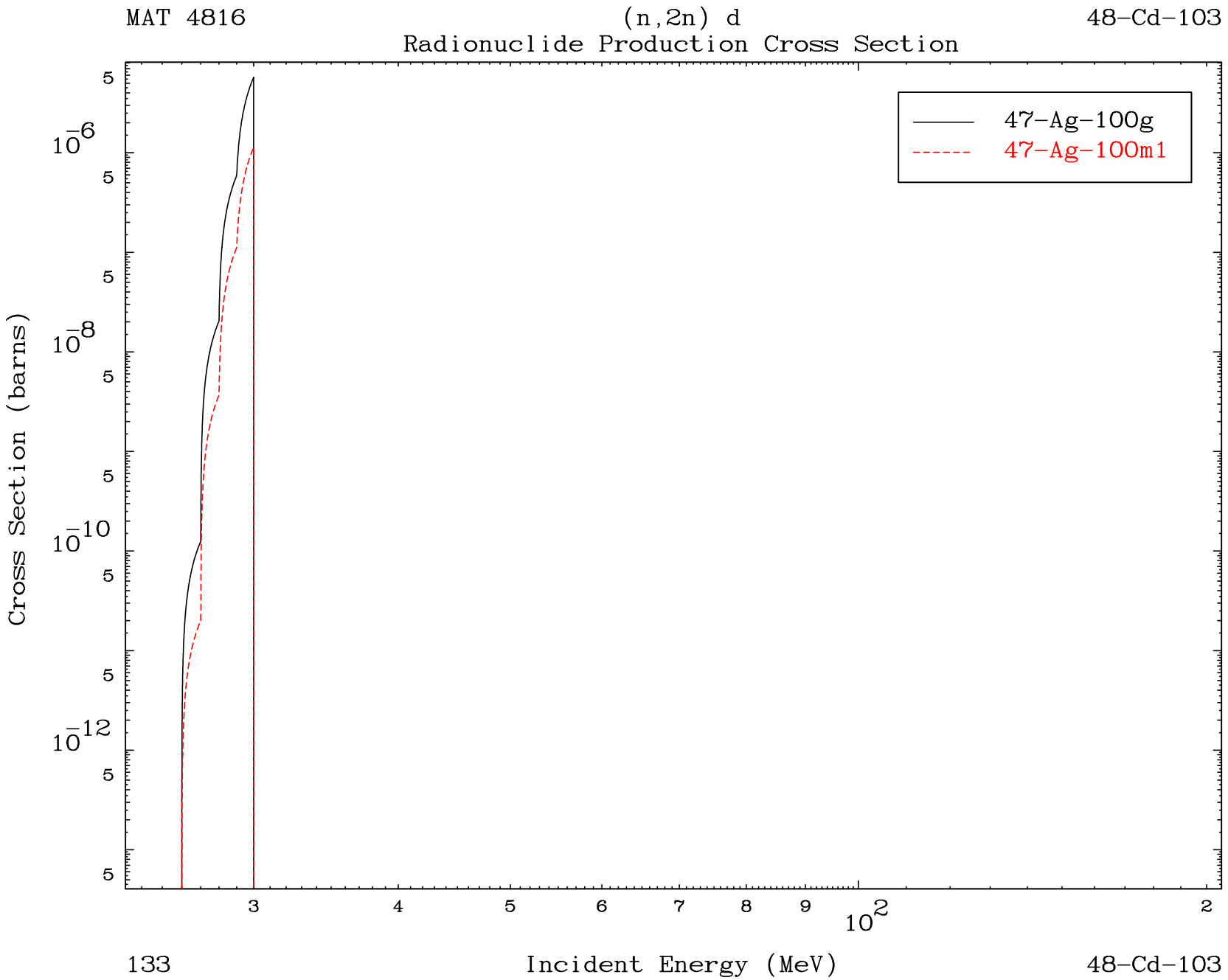

MAT 4816
MT= 77 (n,n') Level
Legendre Coefficients
48-Cd-103
X10-7
0
-2
-4
-6
-8
Legendre (CM)
50
100
150
200
128
Incident Energy (MeV)
48-Cd-103
P28
P29
P30
P31
P32
P33
P34

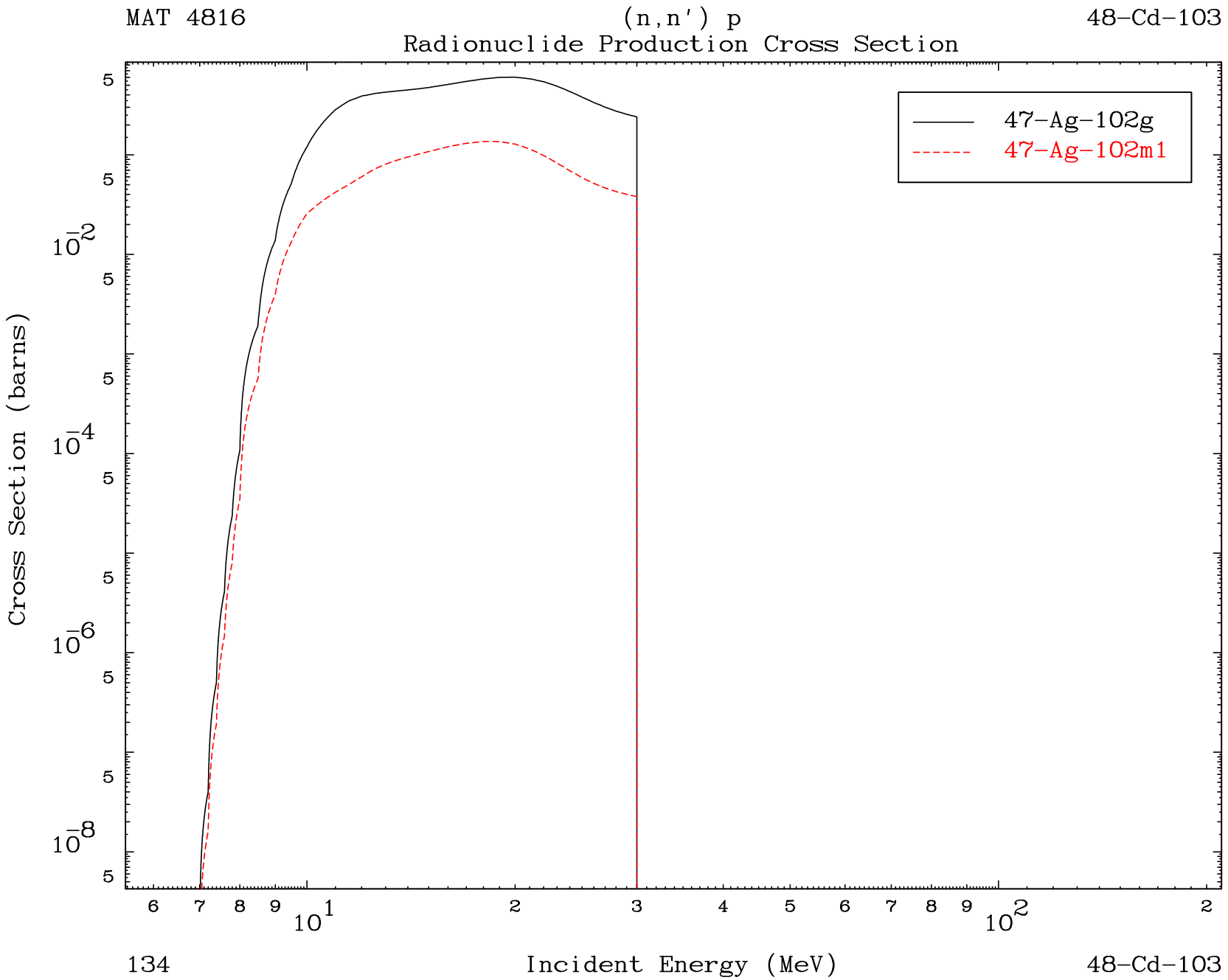

MAT 4816
MT= 78 (n,n') Level
Legendre Coefficients
48-Cd-103
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
129
Incident Energy (MeV)
48-Cd-103

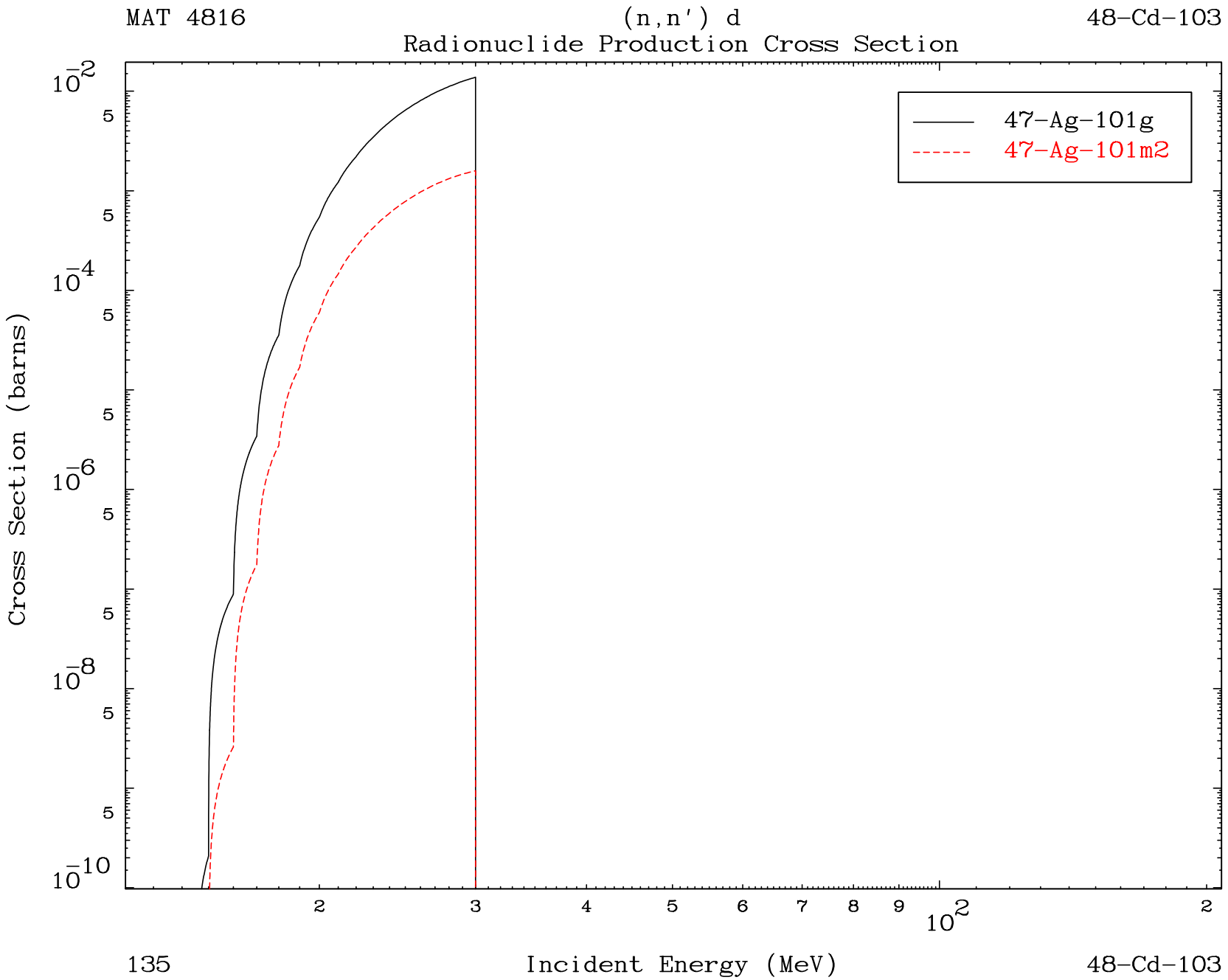

MAT 4816
MT= 78 (n,n') Level
Legendre Coefficients
48-Cd-103
0.015
0.010
0.005
0.000
-0.005
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
130
Incident Energy (MeV)
48-Cd-103

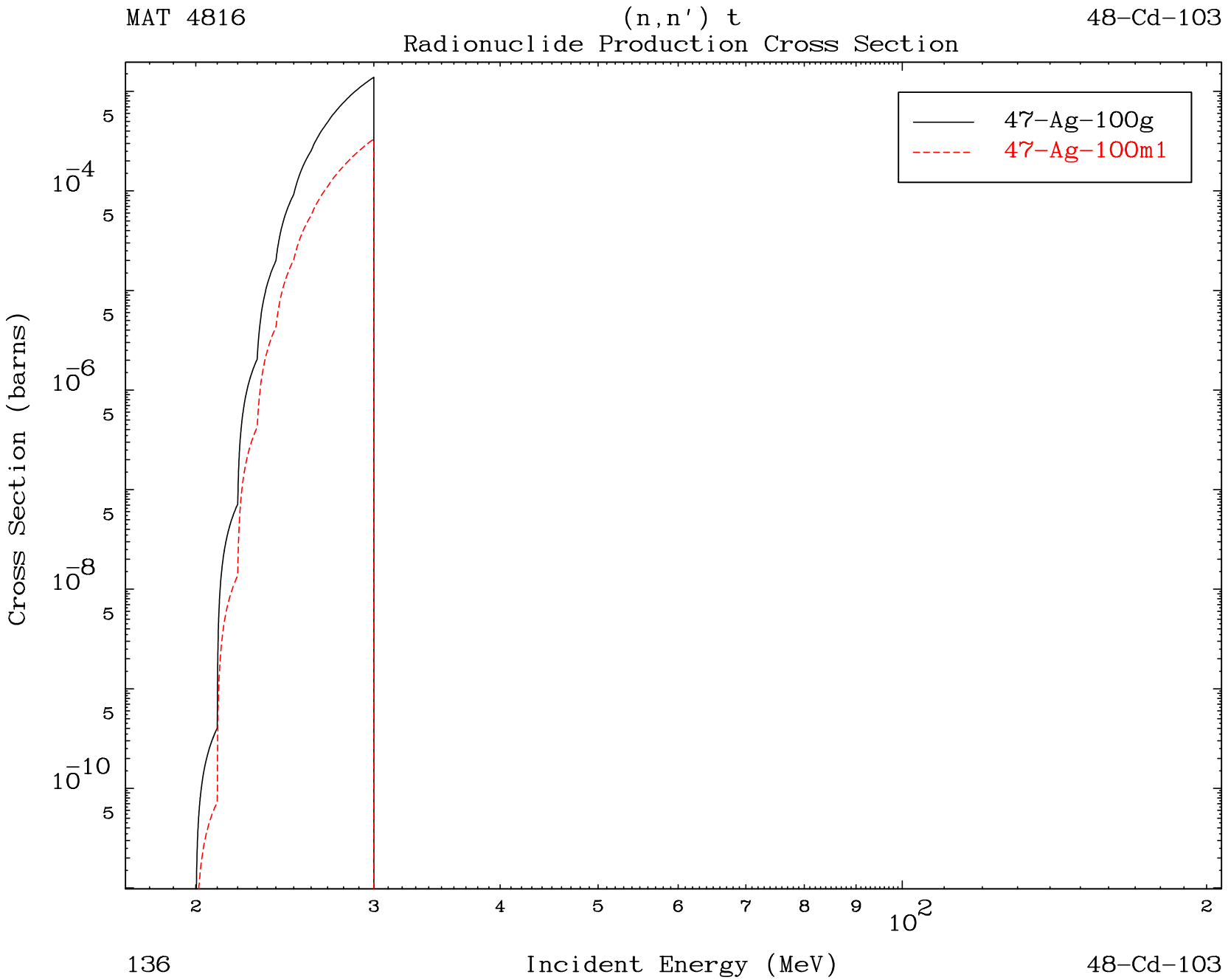

MAT 4816
MT= 78 (n,n') Level
Legendre Coefficients
48-Cd-103
X10+35
1.0
0.5
0.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
131
Incident Energy (MeV)
48-Cd-103

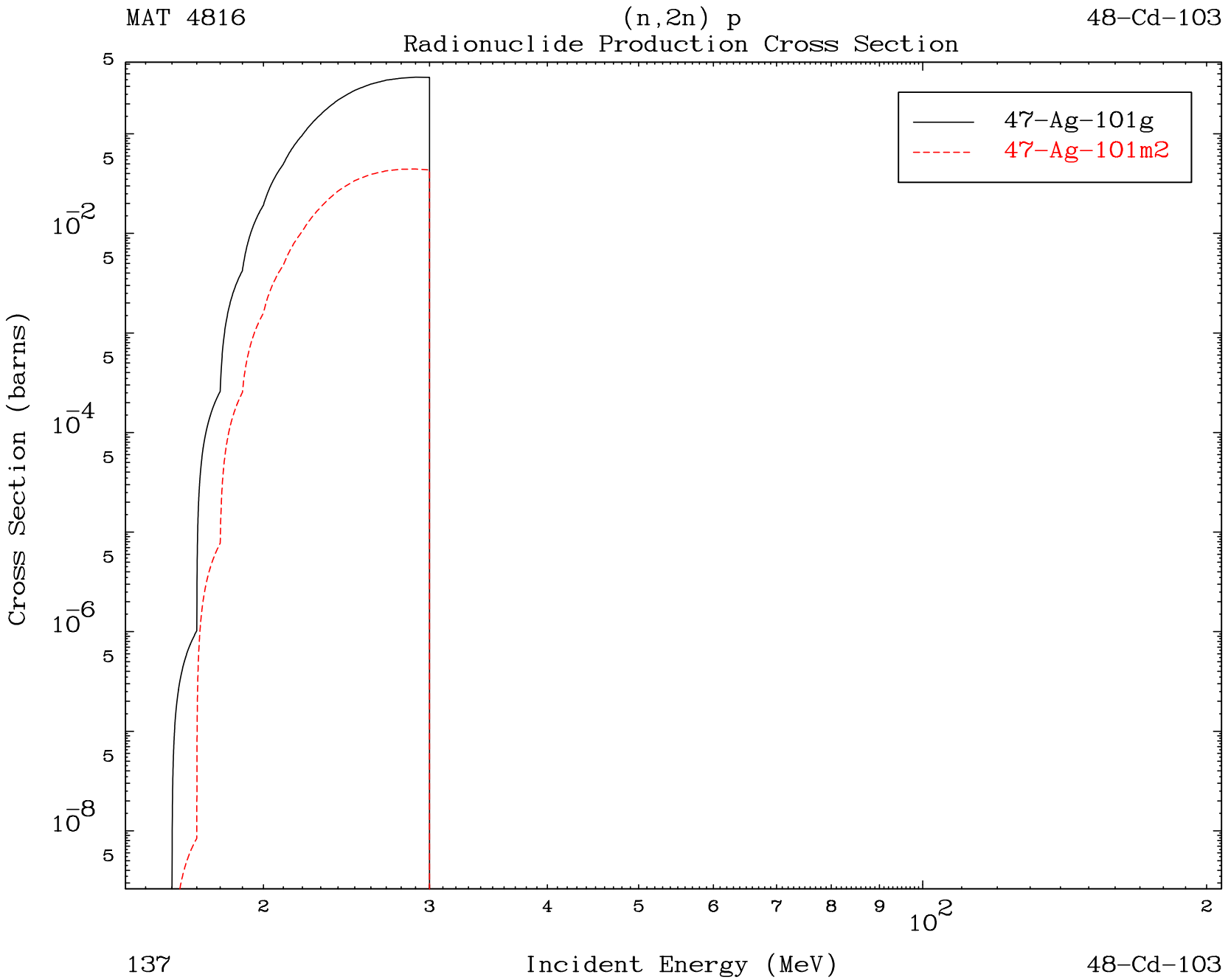

MAT 4816
MT= 78 (n,n') Level
Legendre Coefficients
48-Cd-103
X10-7
5
4
3
2
1
0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
132
Incident Energy (MeV)
48-Cd-103

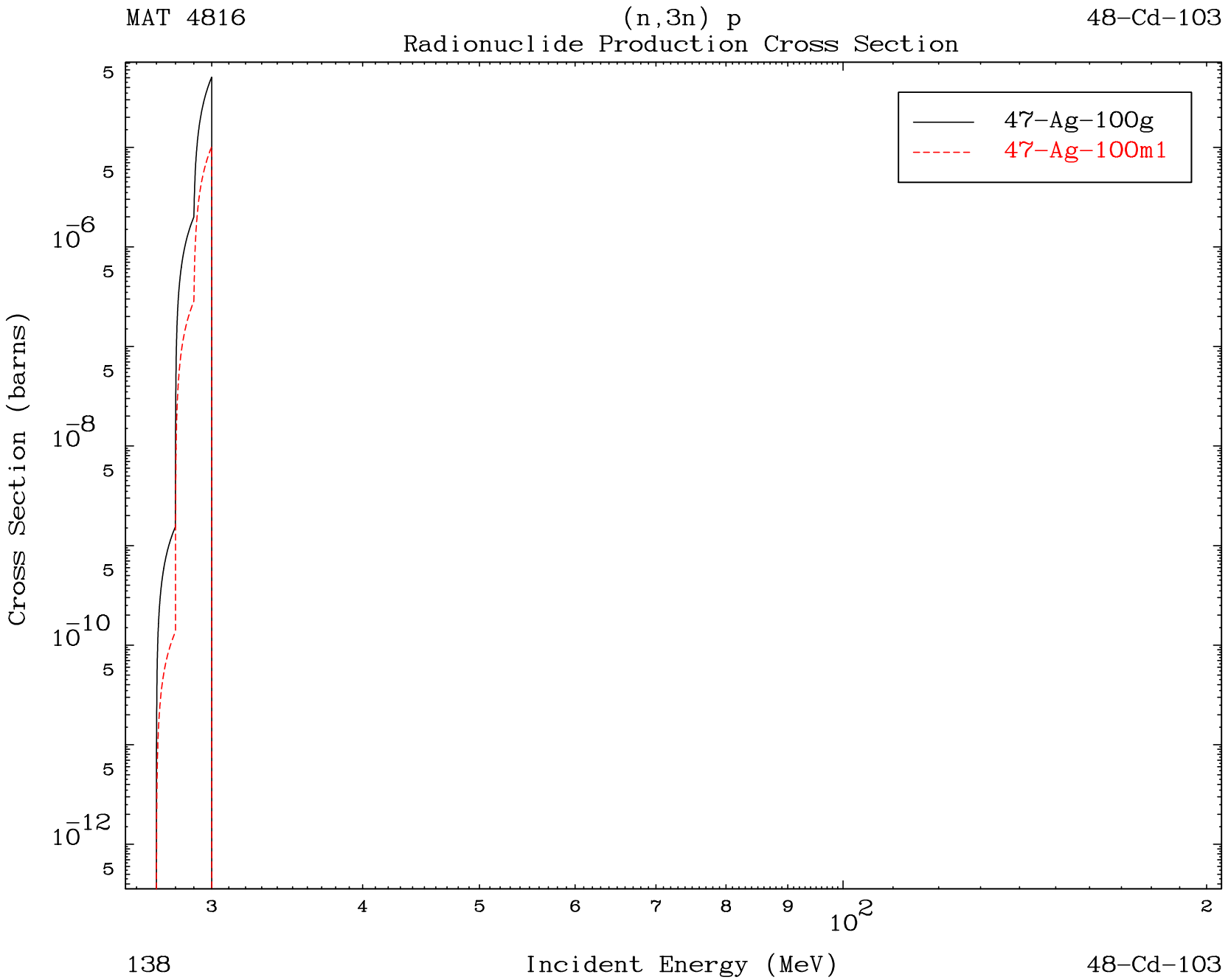

MAT 4816
(n,2n) d
48-Cd-103
Radionuclide Production Cross Section
47-Ag-100g
47-Ag-100m1
Cross Section (barns)
Incident Energy (MeV)
133
48-Cd-103

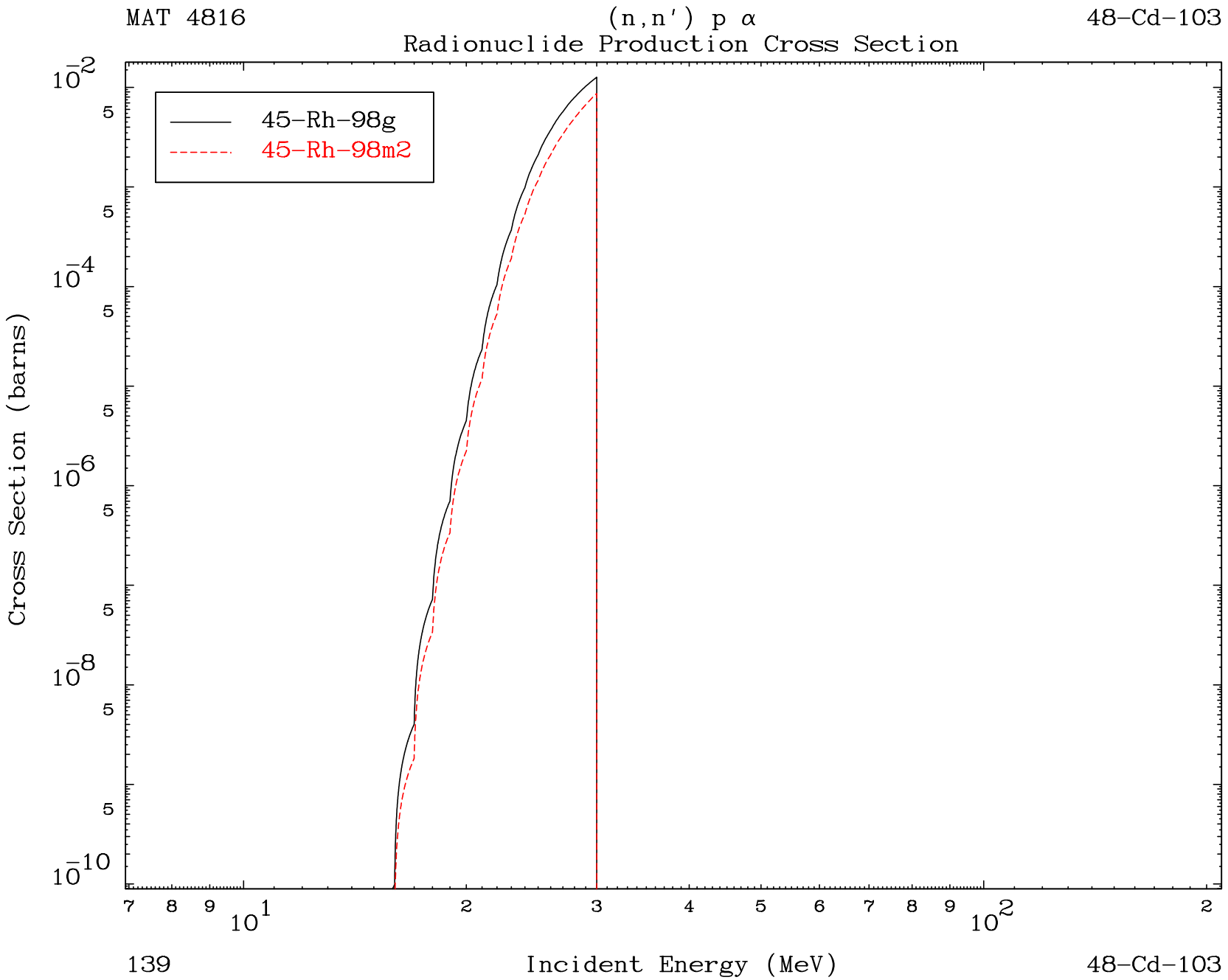

MAT 4816
(n,n') p
48-Cd-103
Radionuclide Production Cross Section
47-Ag-102g
47-Ag-102m1
Cross Section (barns)
Incident Energy (MeV)
134
48-Cd-103

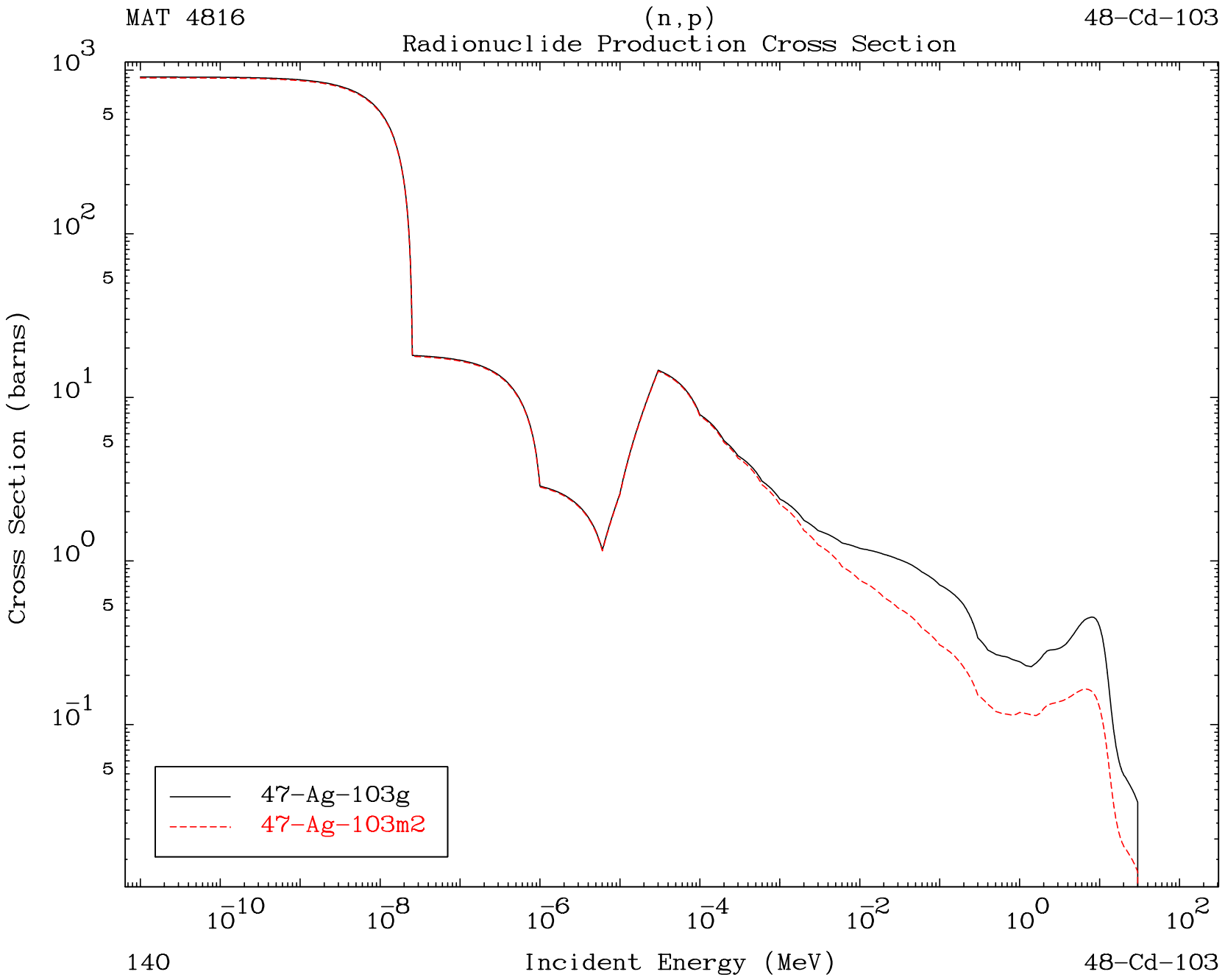

MAT 4816
(n,n') d
48-Cd-103
Radionuclide Production Cross Section
47-Ag-101g
47-Ag-101m2
Cross Section (barns)
Incident Energy (MeV)
135
48-Cd-103

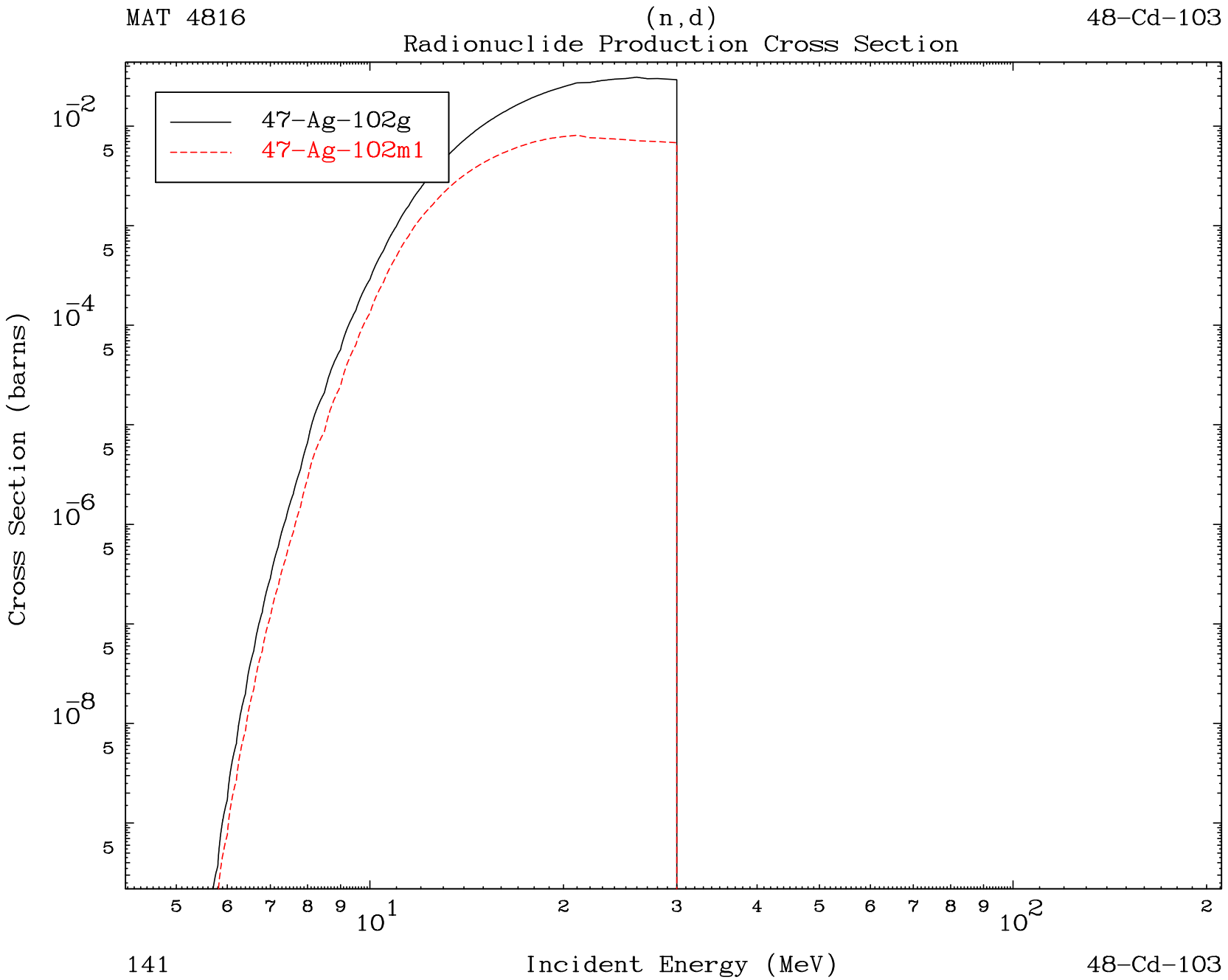

MAT 4816
(n,n') t
48-Cd-103
Radionuclide Production Cross Section
47-Ag-100g
47-Ag-100m1
Cross Section (barns)
10-4
10-6
10-8
10-10
5
2
3
4
5
6
7
8
9
10 2
2
136
Incident Energy (MeV)
48-Cd-103

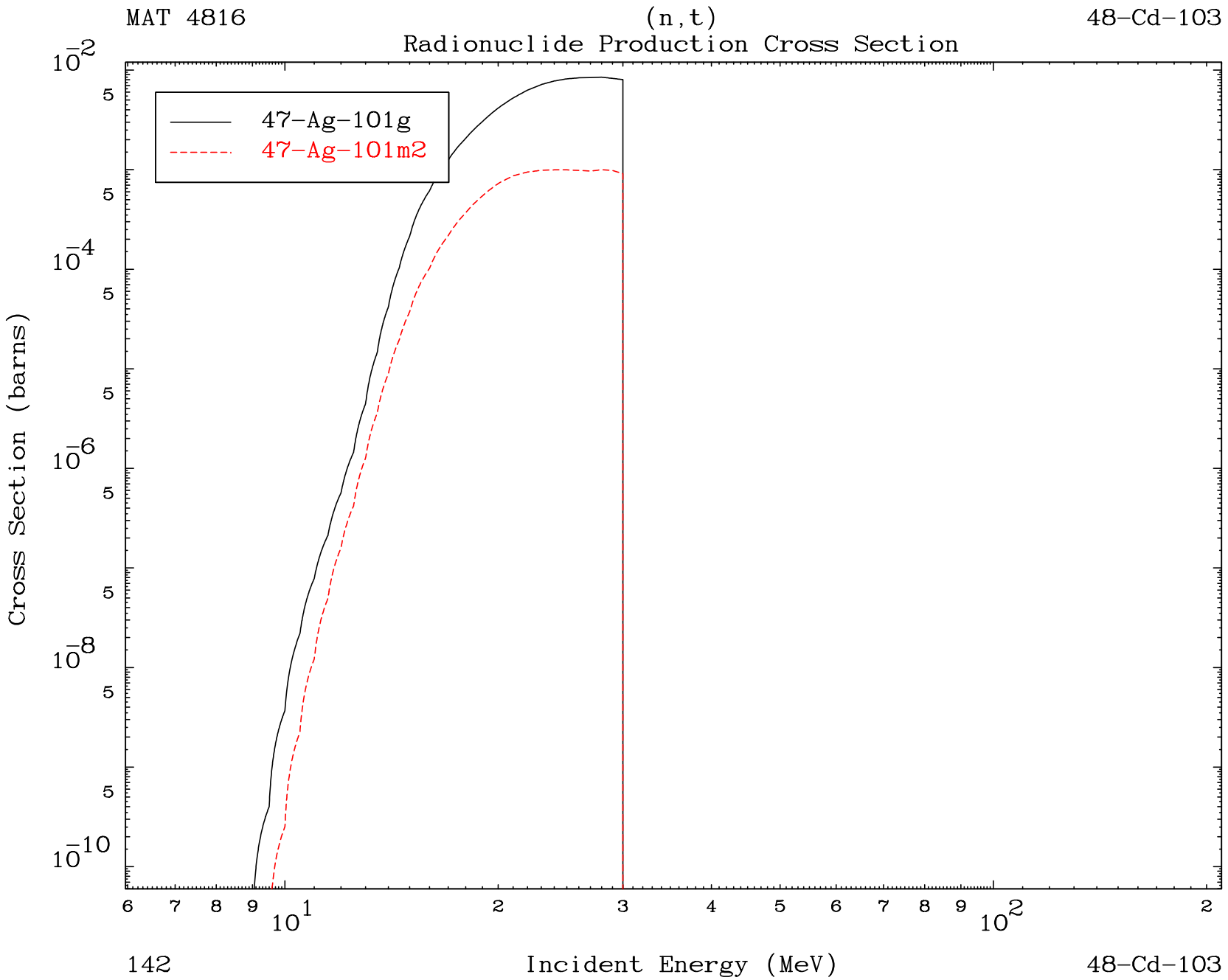

MAT 4816
(n,2n) p
48-Cd-103
Radionuclide Production Cross Section
47-Ag-101g
47-Ag-101m2
Cross Section (barns)
Incident Energy (MeV)
137
48-Cd-103

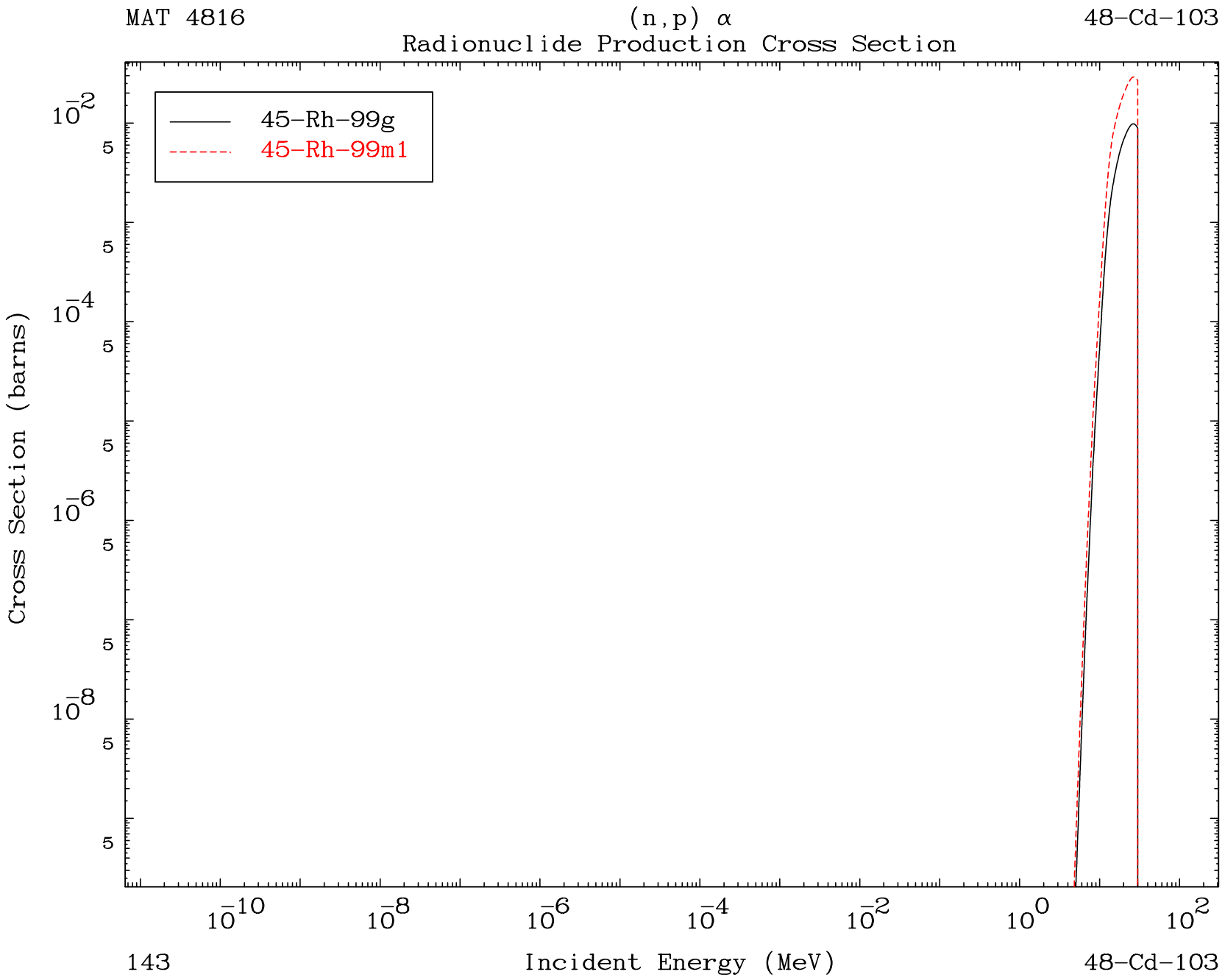

MAT 4816
(n,3n) p
48-Cd-103
Radionuclide Production Cross Section
47-Ag-100g
47-Ag-100m1
Cross Section (barns)
Incident Energy (MeV)
138
48-Cd-103

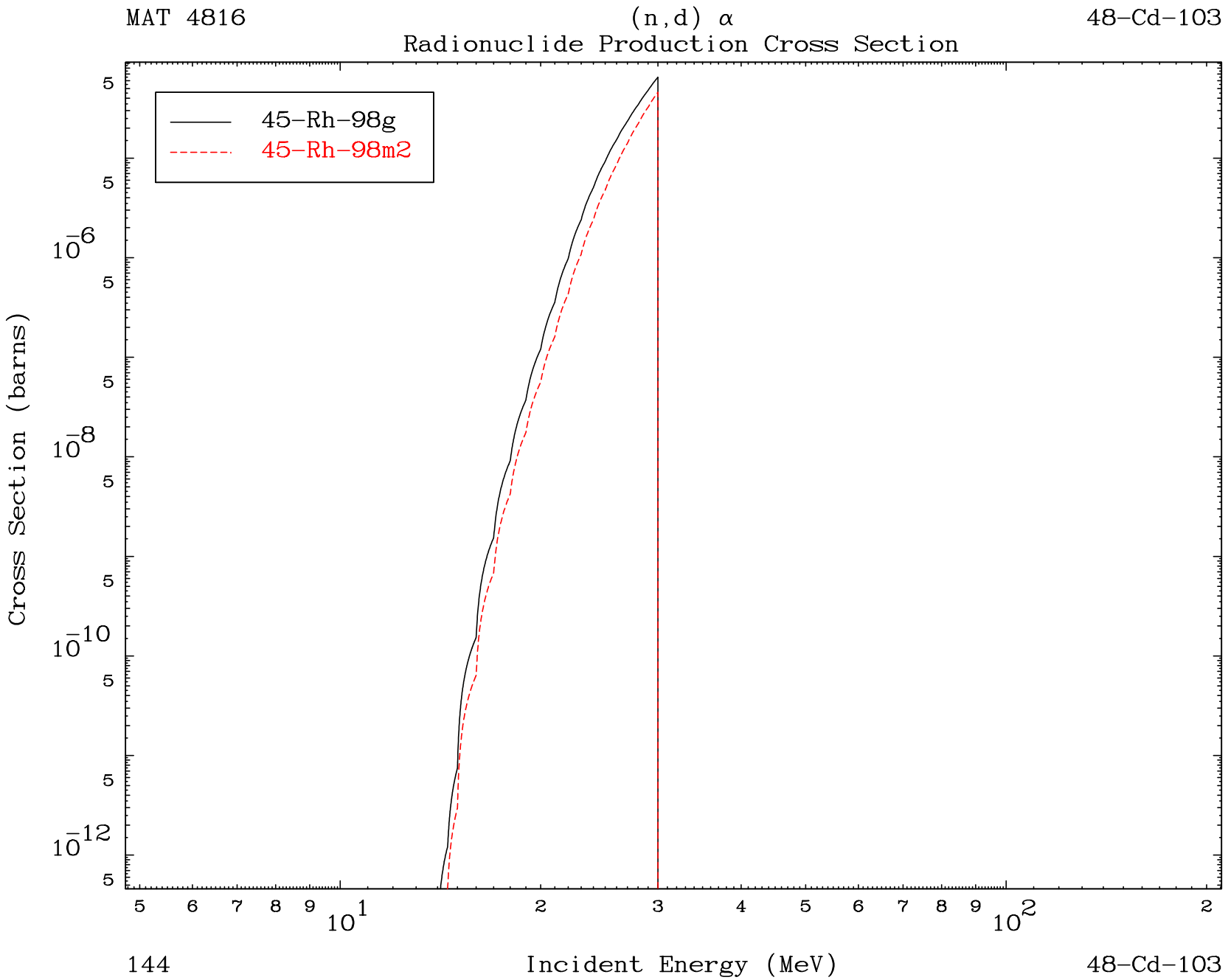

MAT 4816
(n,n') p α
48-Cd-103
Radionuclide Production Cross Section
45-Rh-98g
45-Rh-98m2
Cross Section (barns)
Incident Energy (MeV)
139
48-Cd-103


MAT 4816
(n,p)
48-Cd-103
Radionuclide Production Cross Section
Cross Section (barns)
10^3
10^2
10^1
10^0
10^-1
5
47-Ag-103g
47-Ag-103m2
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
140
Incident Energy (MeV)
48-Cd-103


MAT 4816
(n,d)
48-Cd-103
Radionuclide Production Cross Section
47-Ag-102g
47-Ag-102m1
Cross Section (barns)
Incident Energy (MeV)
141
48-Cd-103


MAT 4816
(n,t)
48-Cd-103
Radionuclide Production Cross Section
47-Ag-101g
47-Ag-101m2
Cross Section (barns)
Incident Energy (MeV)
142
48-Cd-103


MAT 4816
(n,p) α
48-Cd-103
Radionuclide Production Cross Section
45-Rh-99g
45-Rh-99m1
Cross Section (barns)
Incident Energy (MeV)
143
48-Cd-103


MAT 4816
(n,d) α
48-Cd-103
Radionuclide Production Cross Section
45-Rh-98g
45-Rh-98m2
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
10^1
2
3
4
5
6
7
8
9
10^2
2
144
Incident Energy (MeV)
48-Cd-103