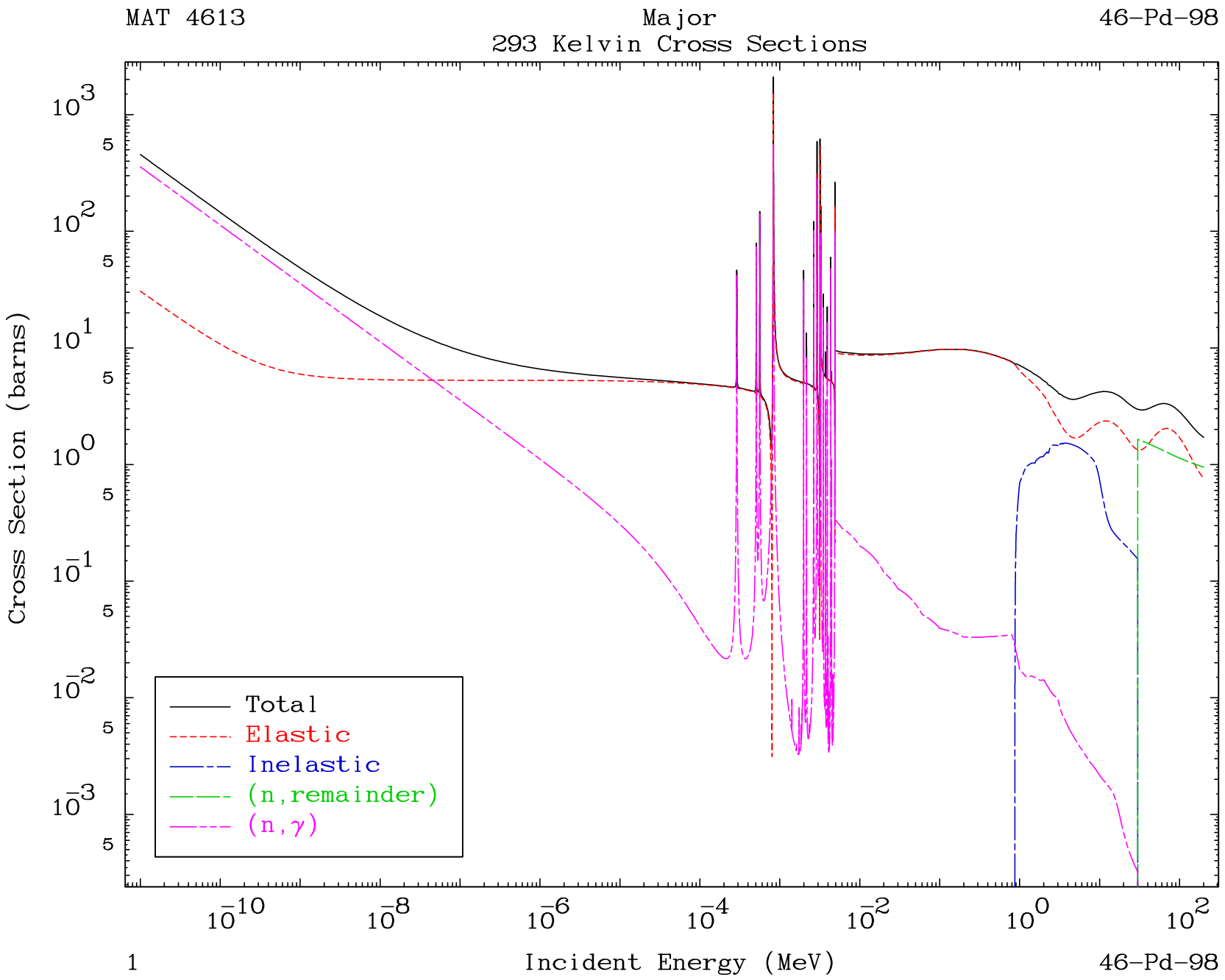
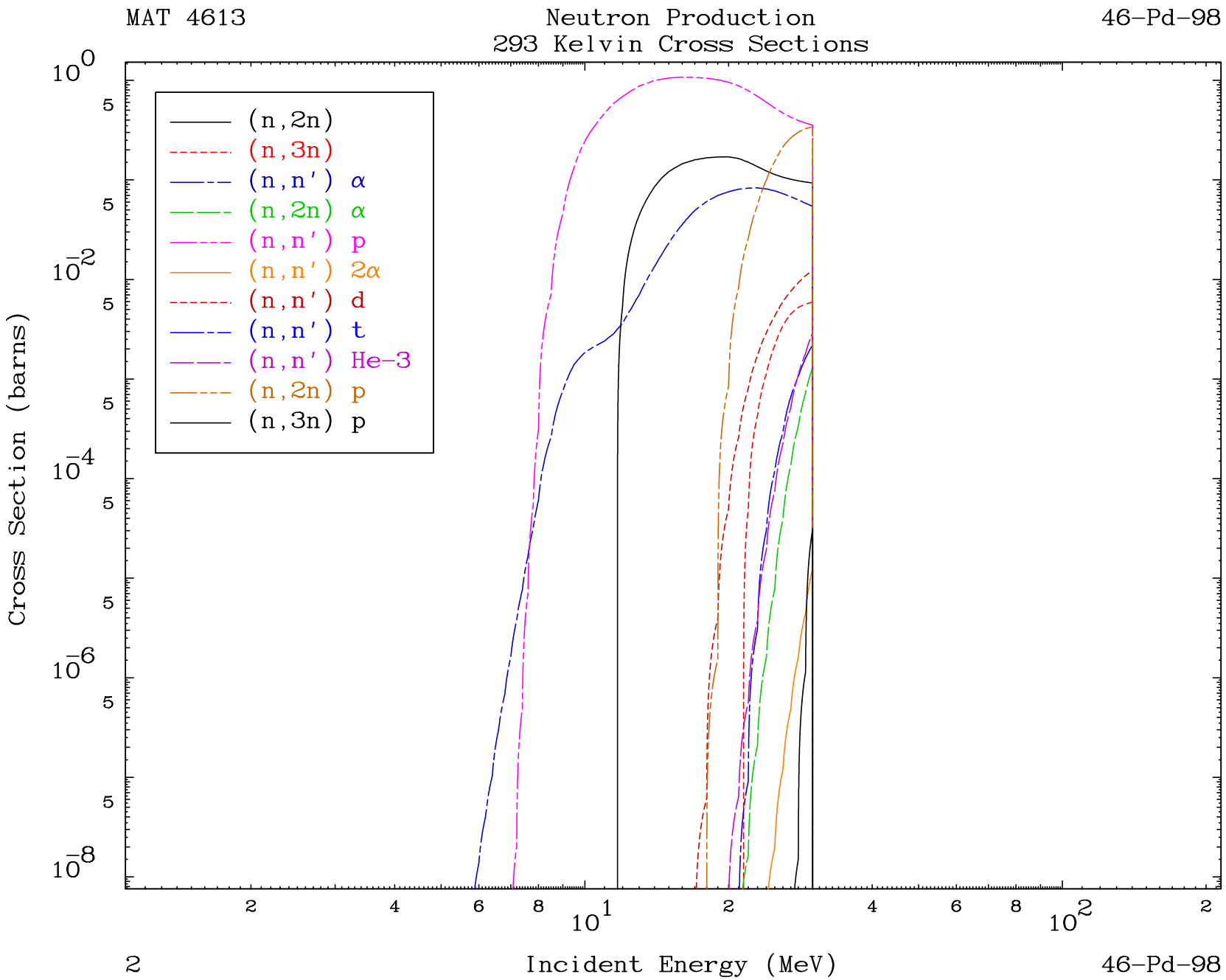
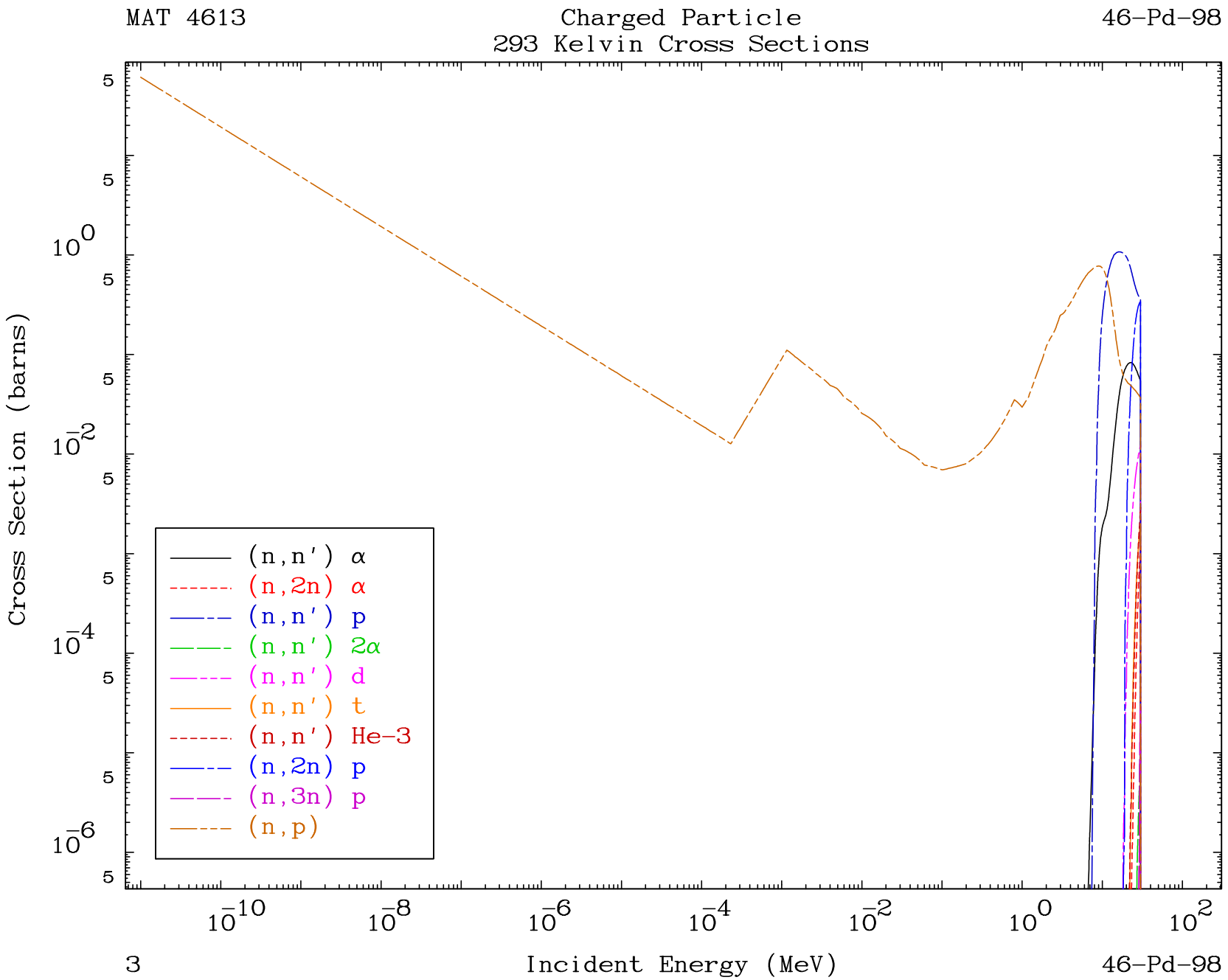
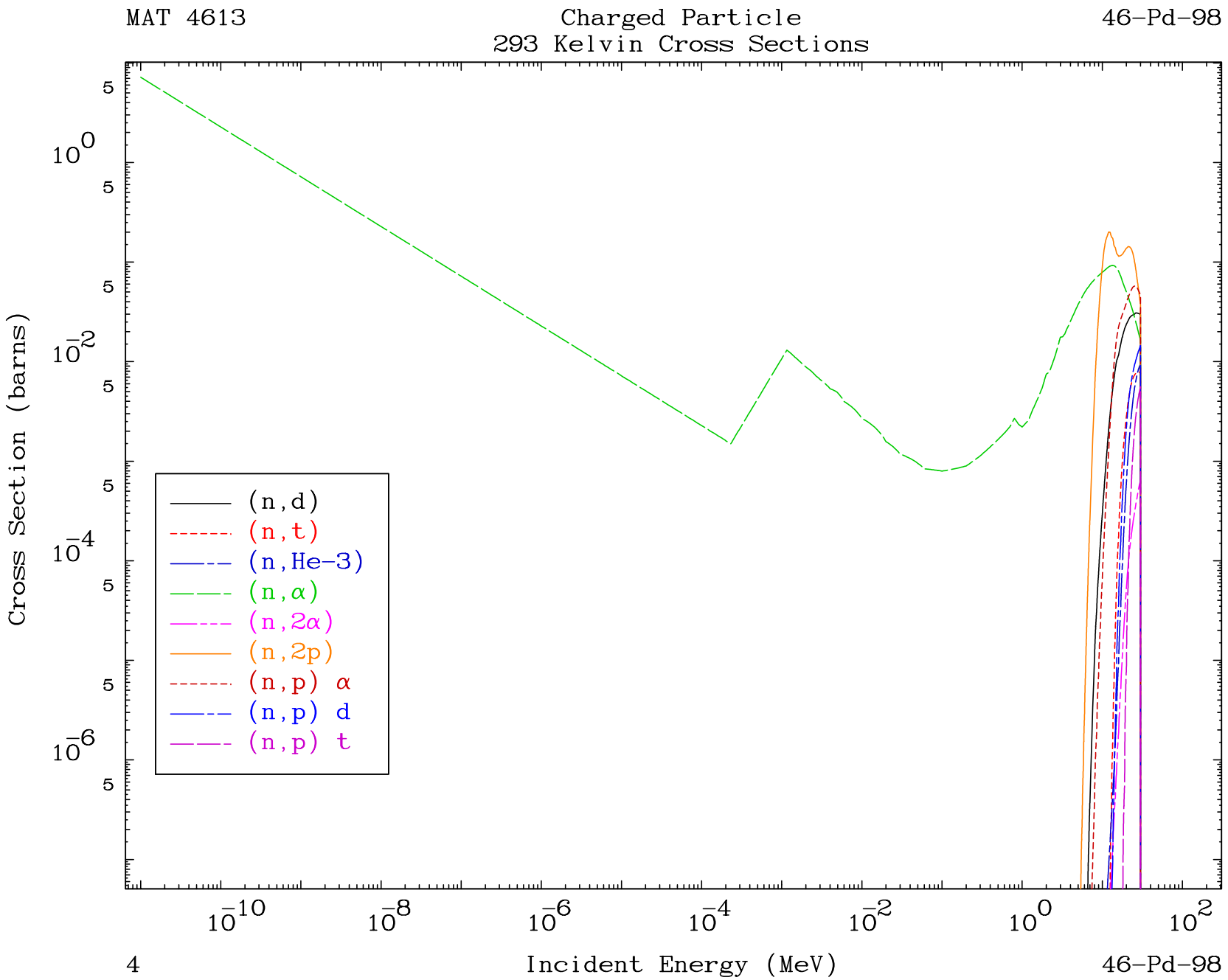
Program EVALPLOT
(Version 2017-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

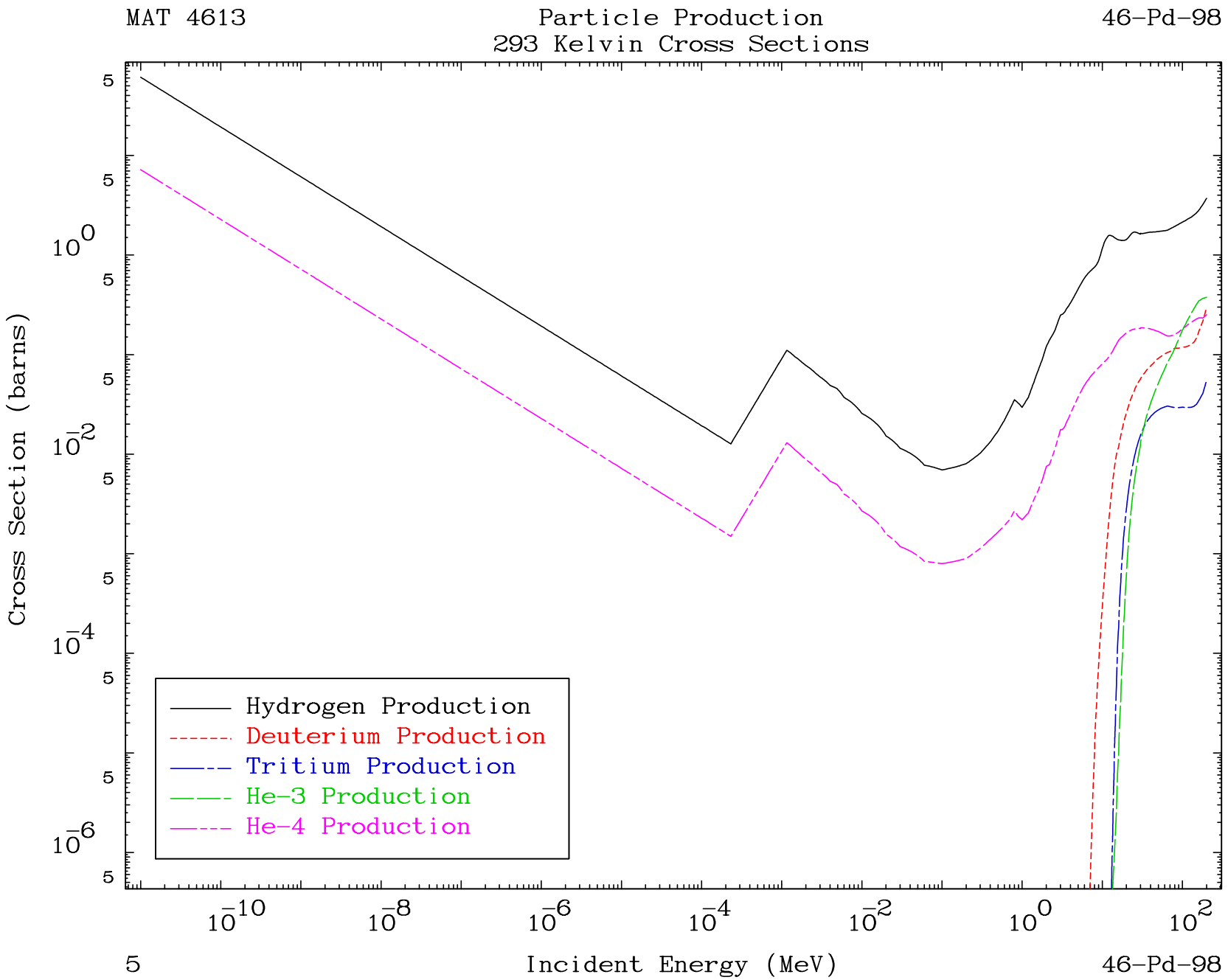
Press Mouse Button to Start

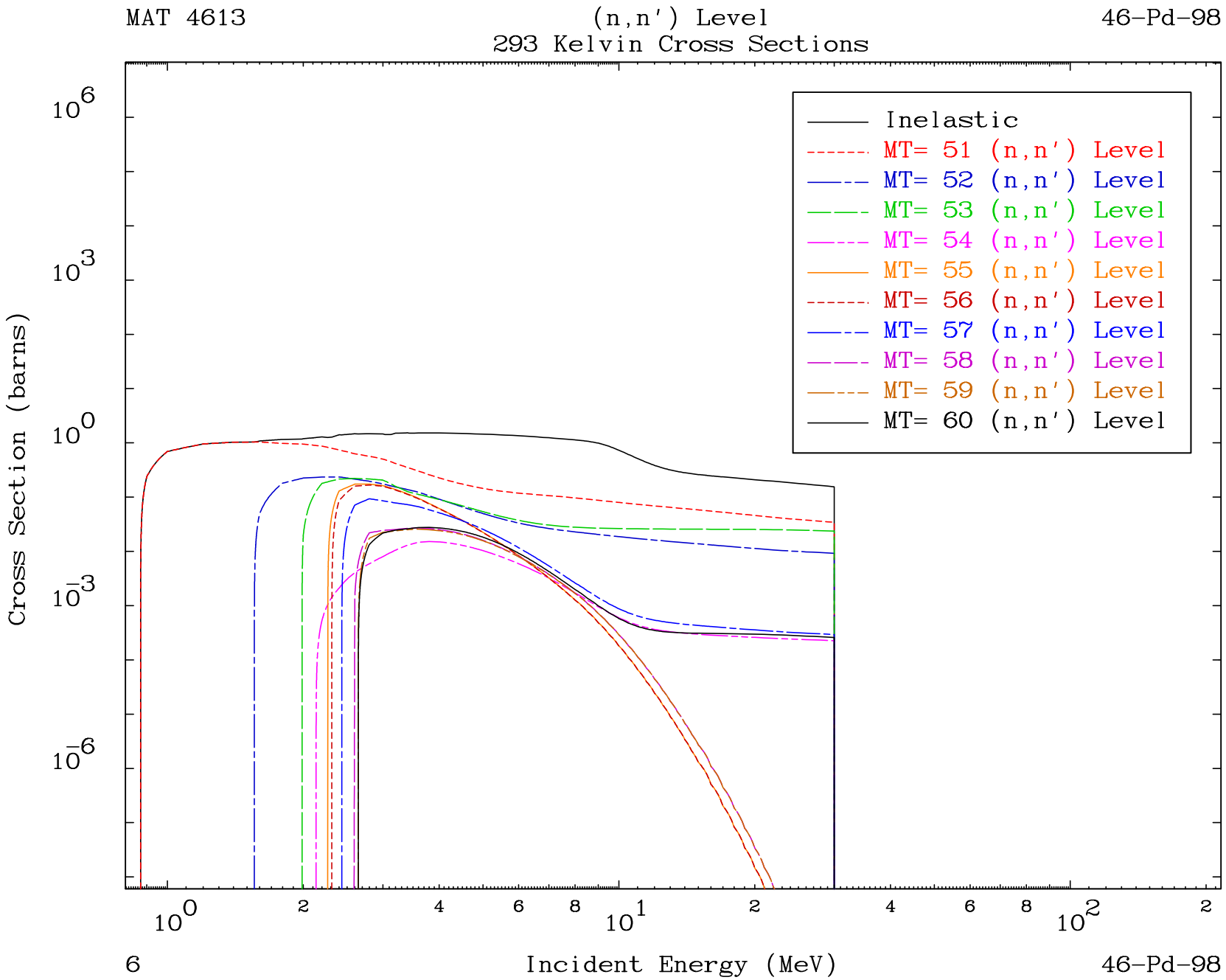

MAT 4613
Major
46-Pd-98
293 Kelvin Cross Sections
Cross Section (barns)
Incident Energy (MeV)
Total
Elastic
Inelastic
(n,remainder)
(n,γ)
1
46-Pd-98

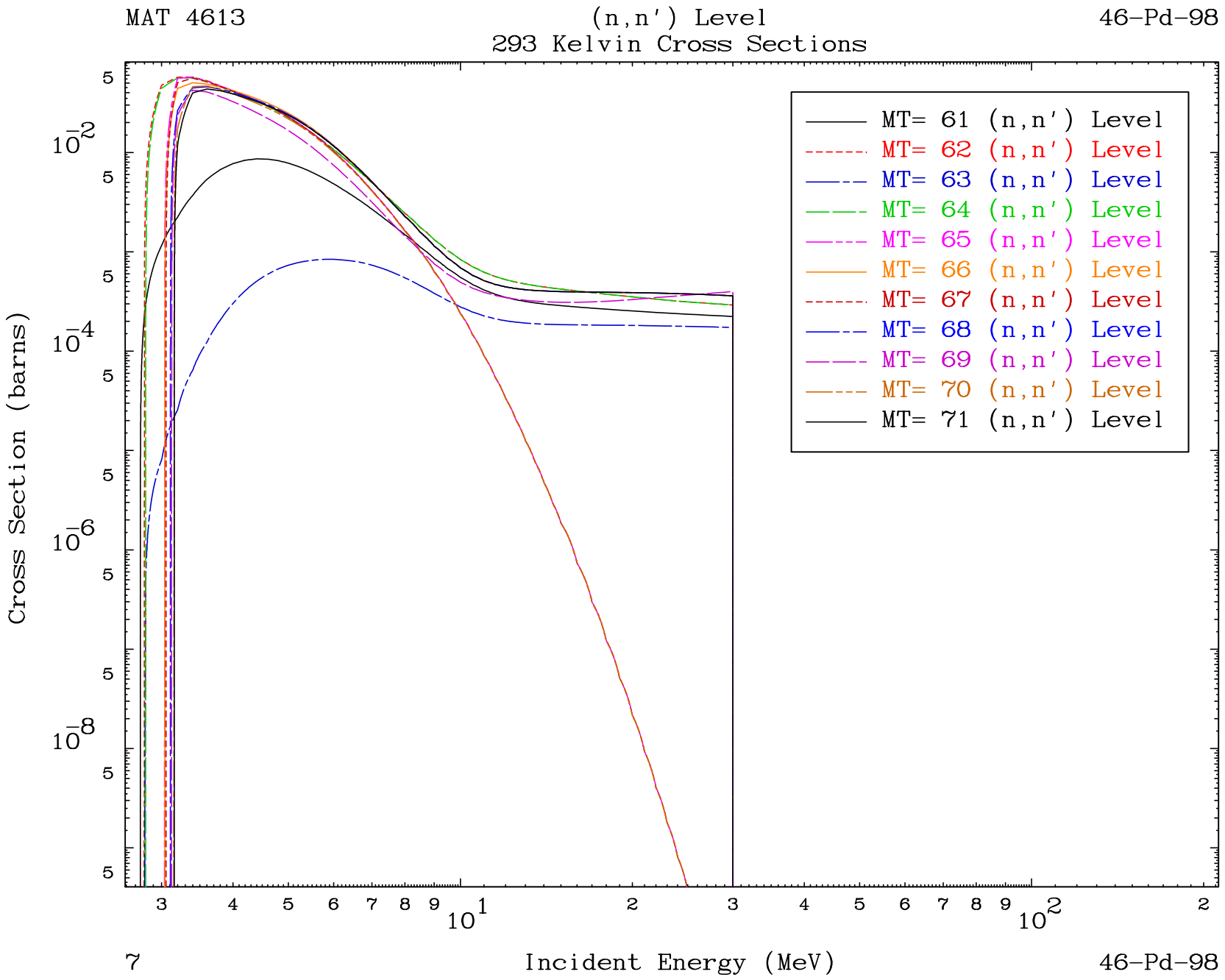

MAT 4613
Neutron Production
293 Kelvin Cross Sections
46-Pd-98
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
(n,3n) p
Cross Section (barns)
Incident Energy (MeV)
46-Pd-98

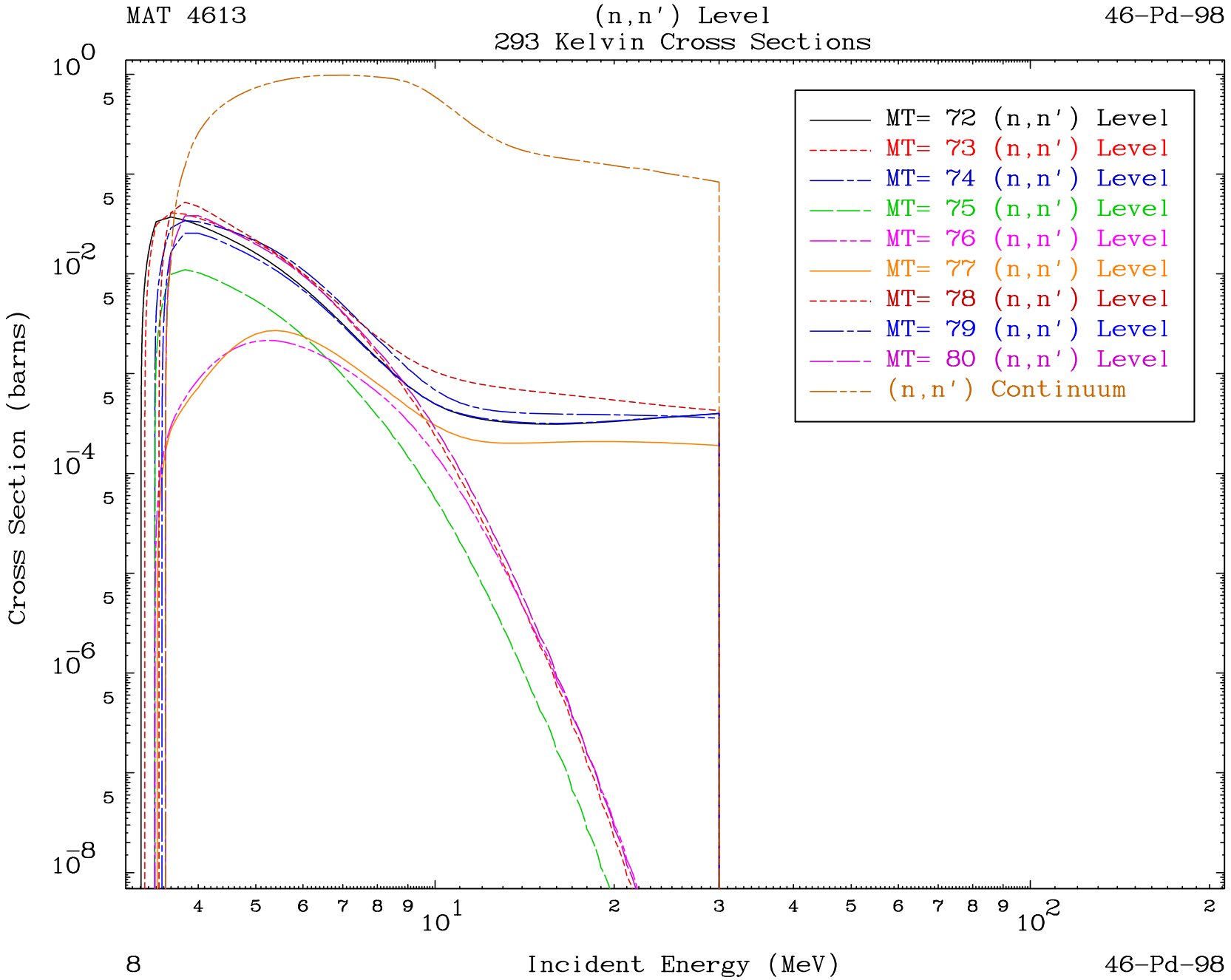

MAT 4613
Charged Particle
46-Pd-98
293 Kelvin Cross Sections
Cross Section (barns)
Incident Energy (MeV)
(n,n') α
(n,2n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
(n,3n) p
(n,p)
3
46-Pd-98


MAT 4613
Charged Particle
293 Kelvin Cross Sections
46-Pd-98
Cross Section (barns)
Incident Energy (MeV)
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
4
46-Pd-98

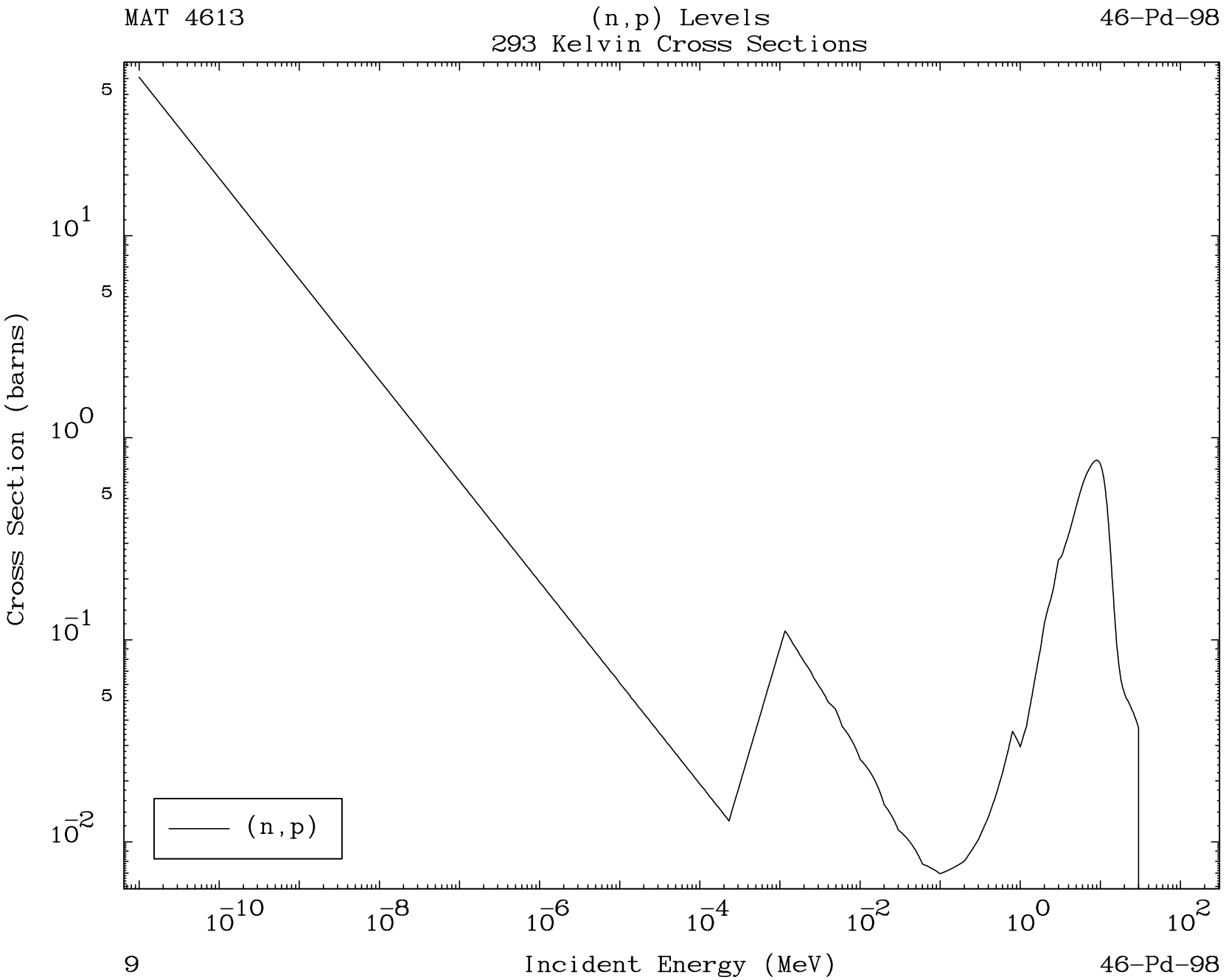

MAT 4613
Particle Production
293 Kelvin Cross Sections
46-Pd-98
Cross Section (barns)
Incident Energy (MeV)
46-Pd-98
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production

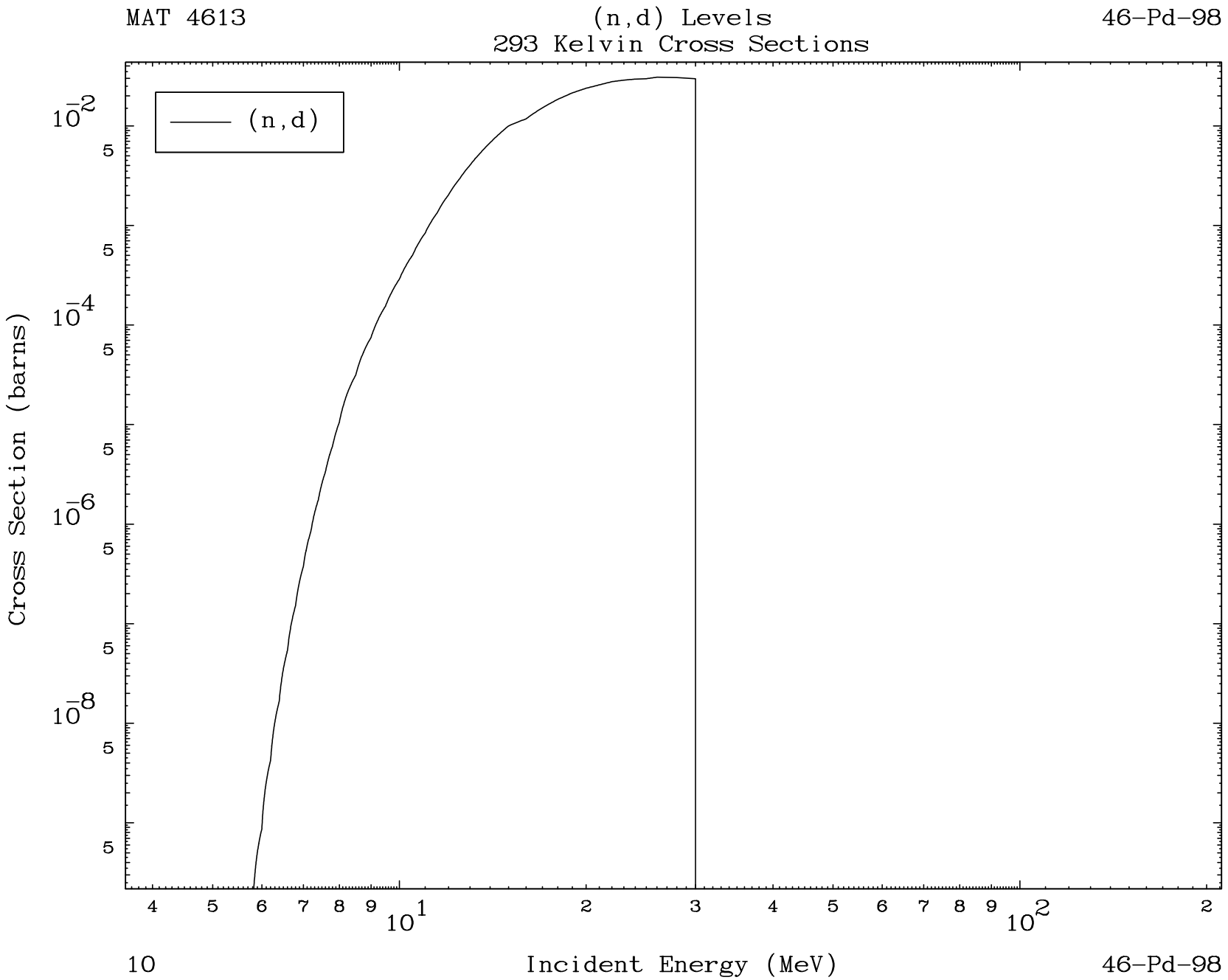

MAT 4613
(n,n') Level
293 Kelvin Cross Sections
46-Pd-98
Cross Section (barns)
10^6
10^3
10^0
10^-3
10^-6
Inelastic
MT= 51 (n,n') Level
MT= 52 (n,n') Level
MT= 53 (n,n') Level
MT= 54 (n,n') Level
MT= 55 (n,n') Level
MT= 56 (n,n') Level
MT= 57 (n,n') Level
MT= 58 (n,n') Level
MT= 59 (n,n') Level
MT= 60 (n,n') Level
10^0
2
4
6
8
10^1
2
4
6
8
10^2
2
Incident Energy (MeV)
6
46-Pd-98

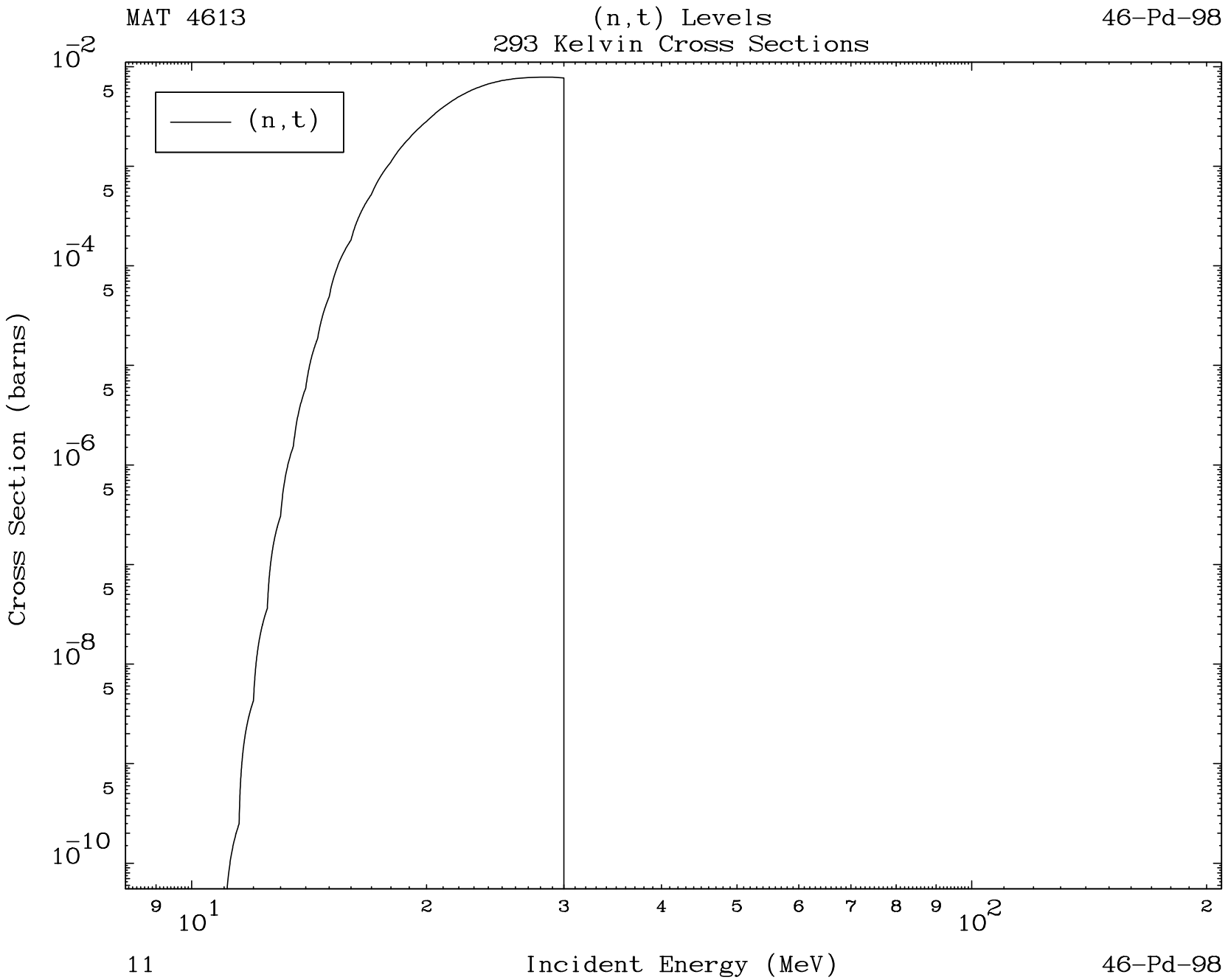

MAT 4613
(n,n') Level
293 Kelvin Cross Sections
46-Pd-98
Cross Section (barns)
Incident Energy (MeV)
MT= 61 (n,n') Level
MT= 62 (n,n') Level
MT= 63 (n,n') Level
MT= 64 (n,n') Level
MT= 65 (n,n') Level
MT= 66 (n,n') Level
MT= 67 (n,n') Level
MT= 68 (n,n') Level
MT= 69 (n,n') Level
MT= 70 (n,n') Level
MT= 71 (n,n') Level
7
46-Pd-98

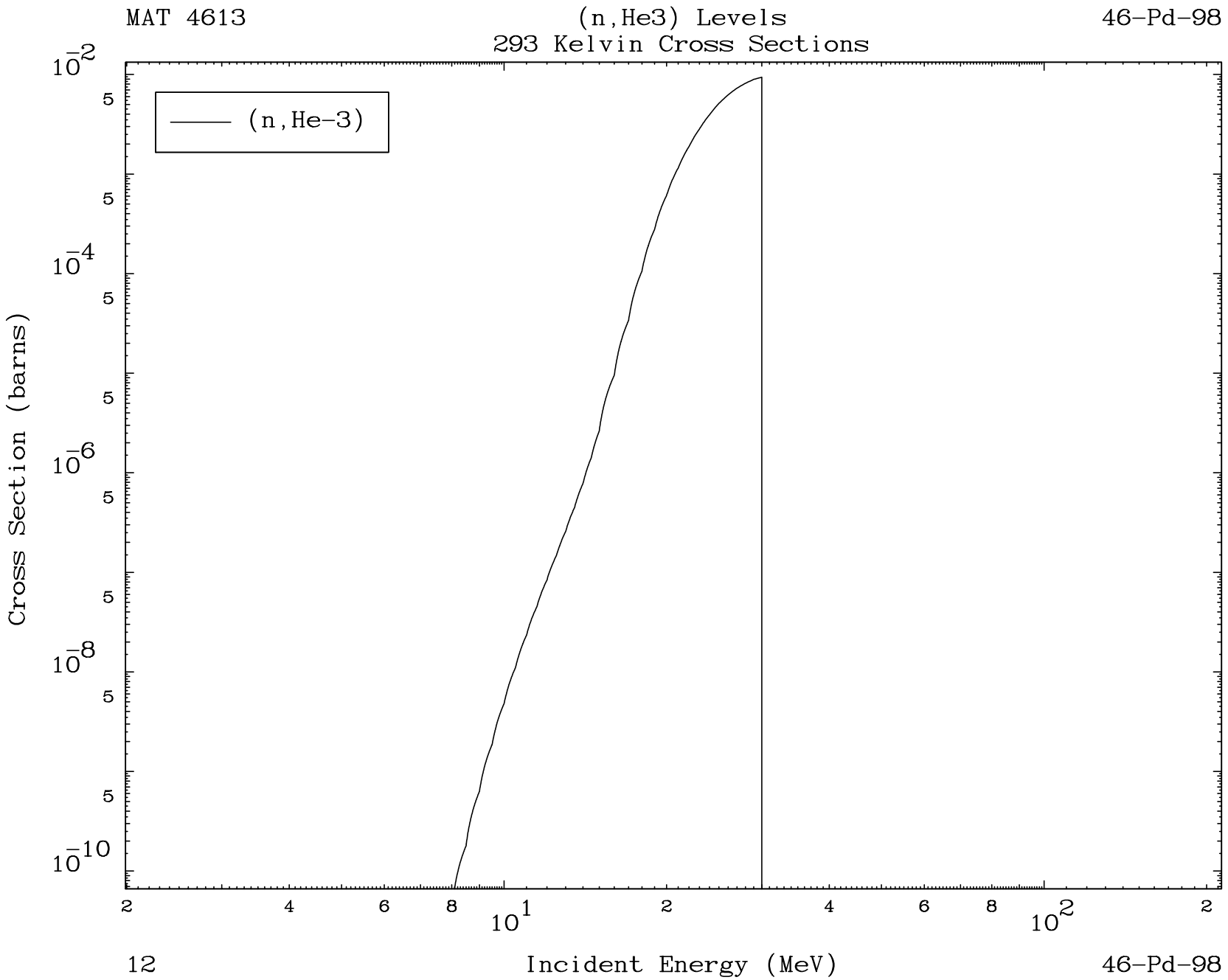

MAT 4613
(n,n') Level
293 Kelvin Cross Sections
46-Pd-98
Cross Section (barns)
Incident Energy (MeV)
MT= 72 (n,n') Level
MT= 73 (n,n') Level
MT= 74 (n,n') Level
MT= 75 (n,n') Level
MT= 76 (n,n') Level
MT= 77 (n,n') Level
MT= 78 (n,n') Level
MT= 79 (n,n') Level
MT= 80 (n,n') Level
(n,n') Continuum

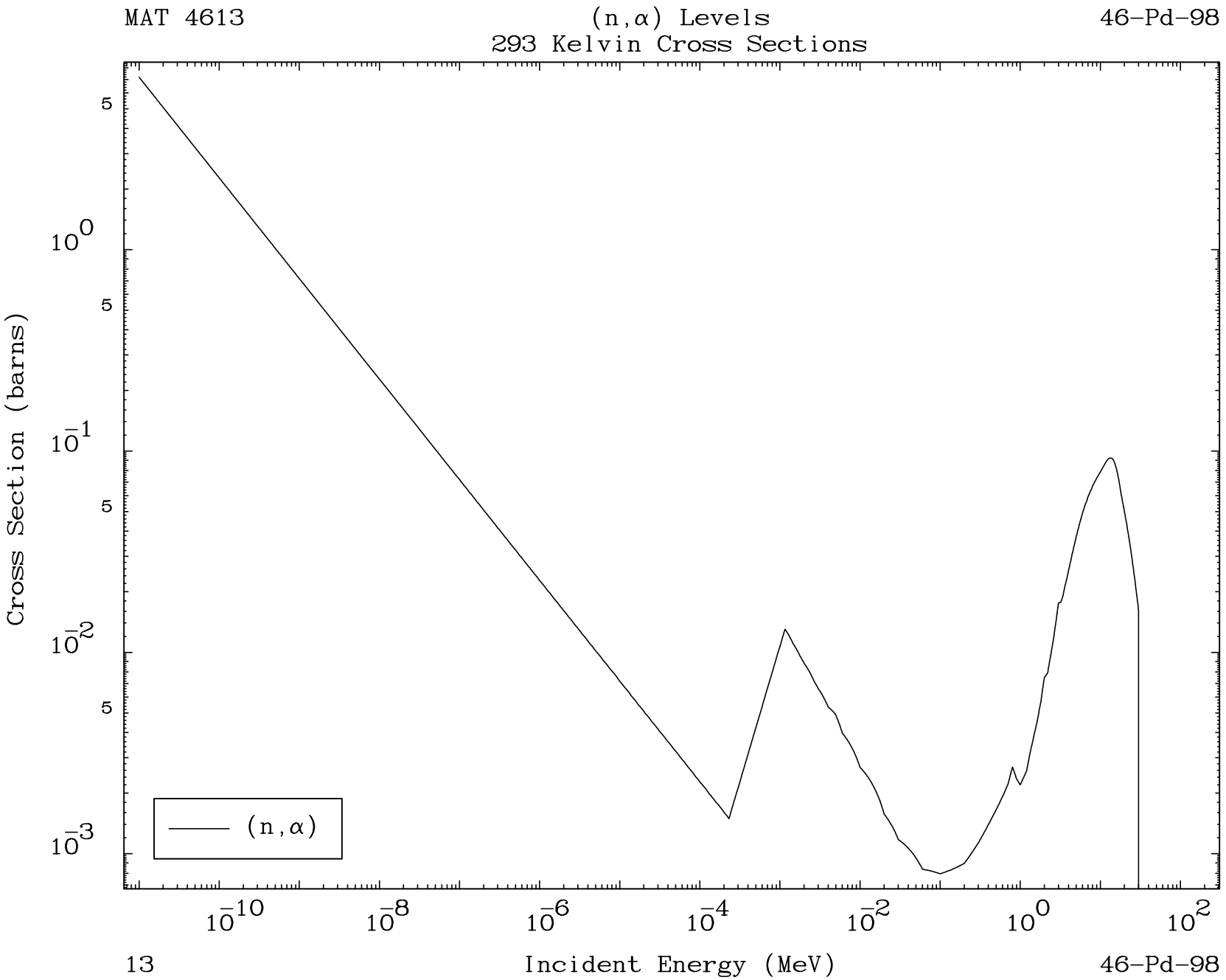
46-Pd-98

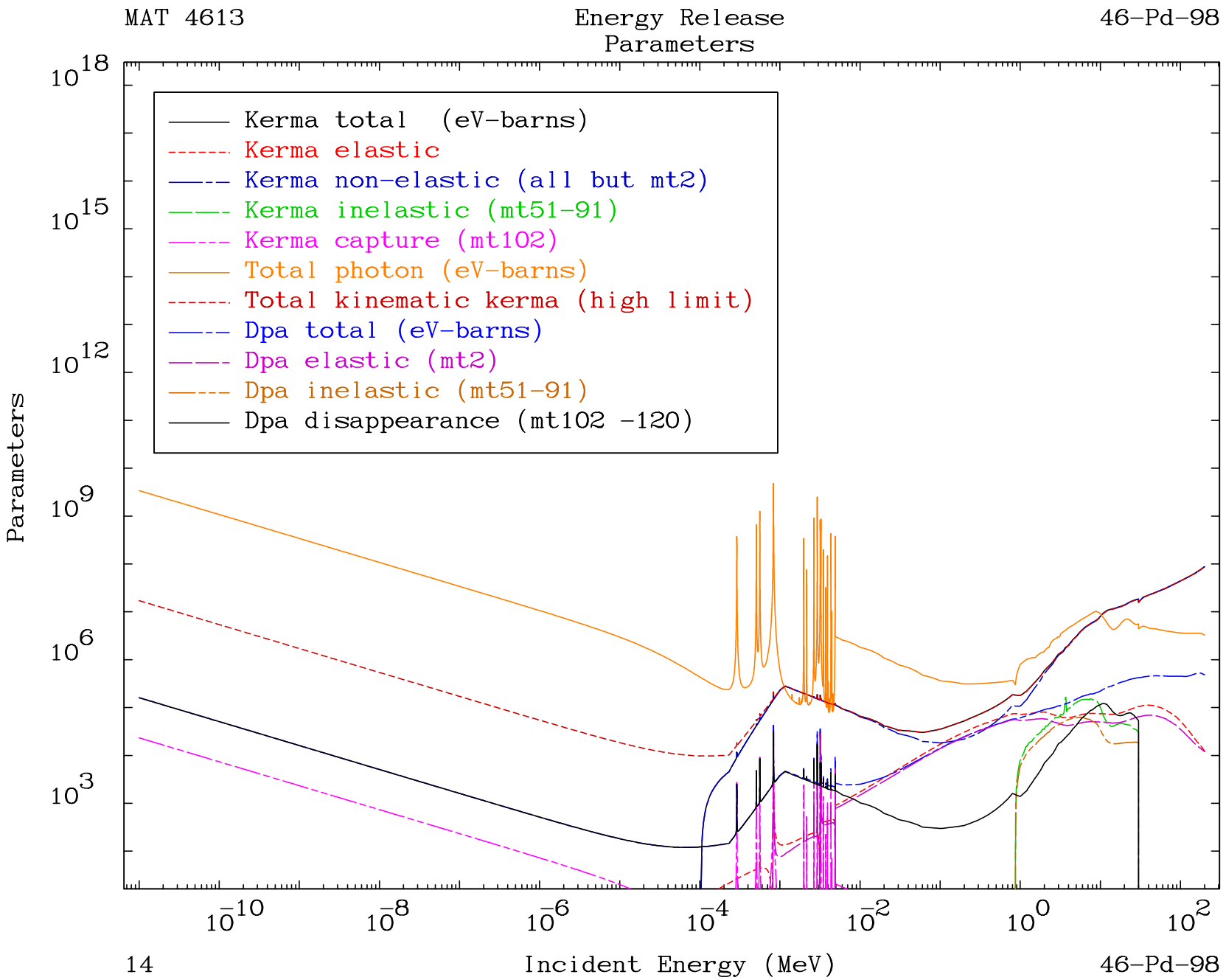

MAT 4613
(n,p) Levels
46-Pd-98
293 Kelvin Cross Sections
Cross Section (barns)
5
10^1
5
10^0
5
10^-1
5
10^-2
(n,p)
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
9
Incident Energy (MeV)
46-Pd-98

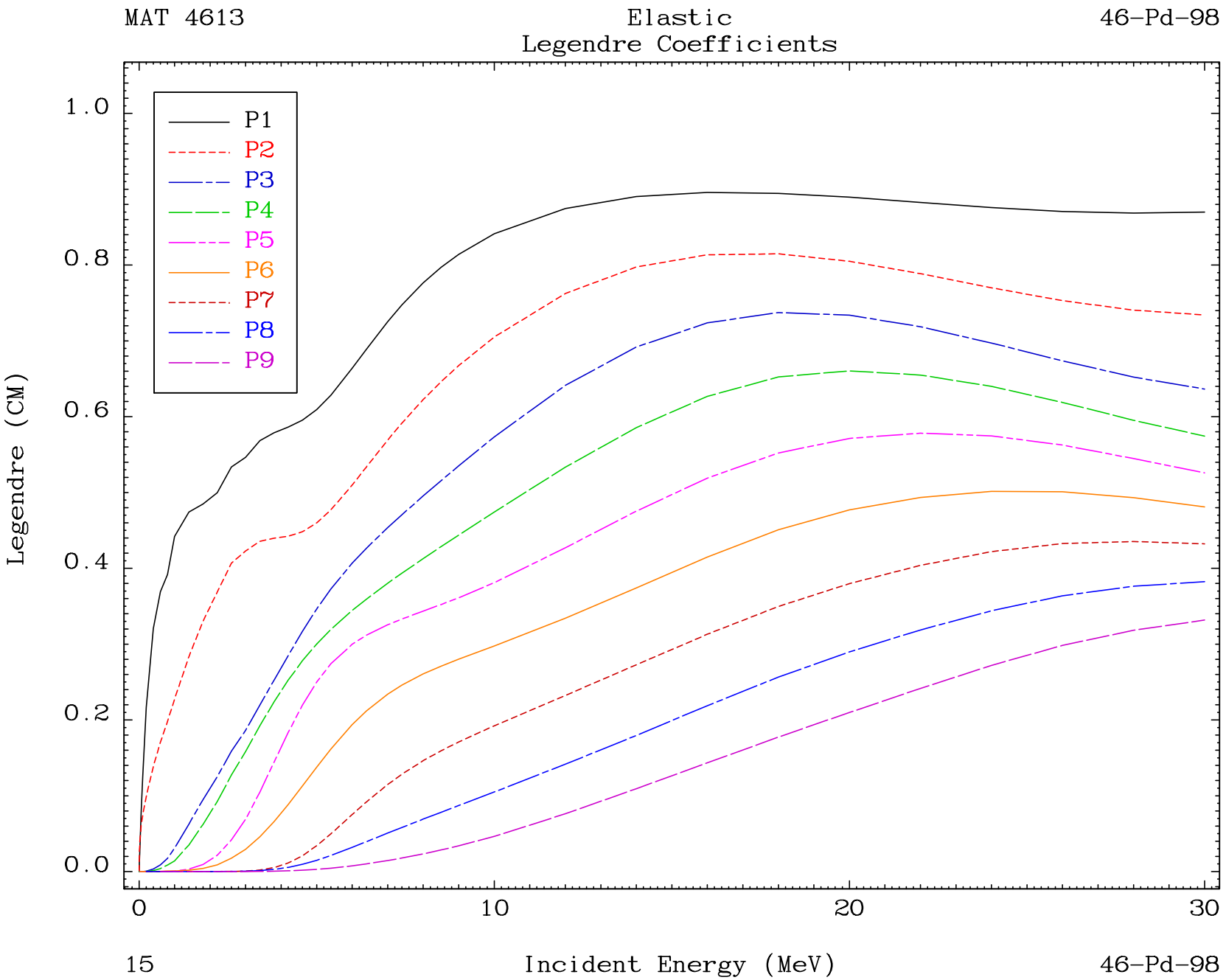

MAT 4613
(n,d) Levels
46-Pd-98
293 Kelvin Cross Sections
(n,d)
Cross Section (barns)
Incident Energy (MeV)
10
46-Pd-98

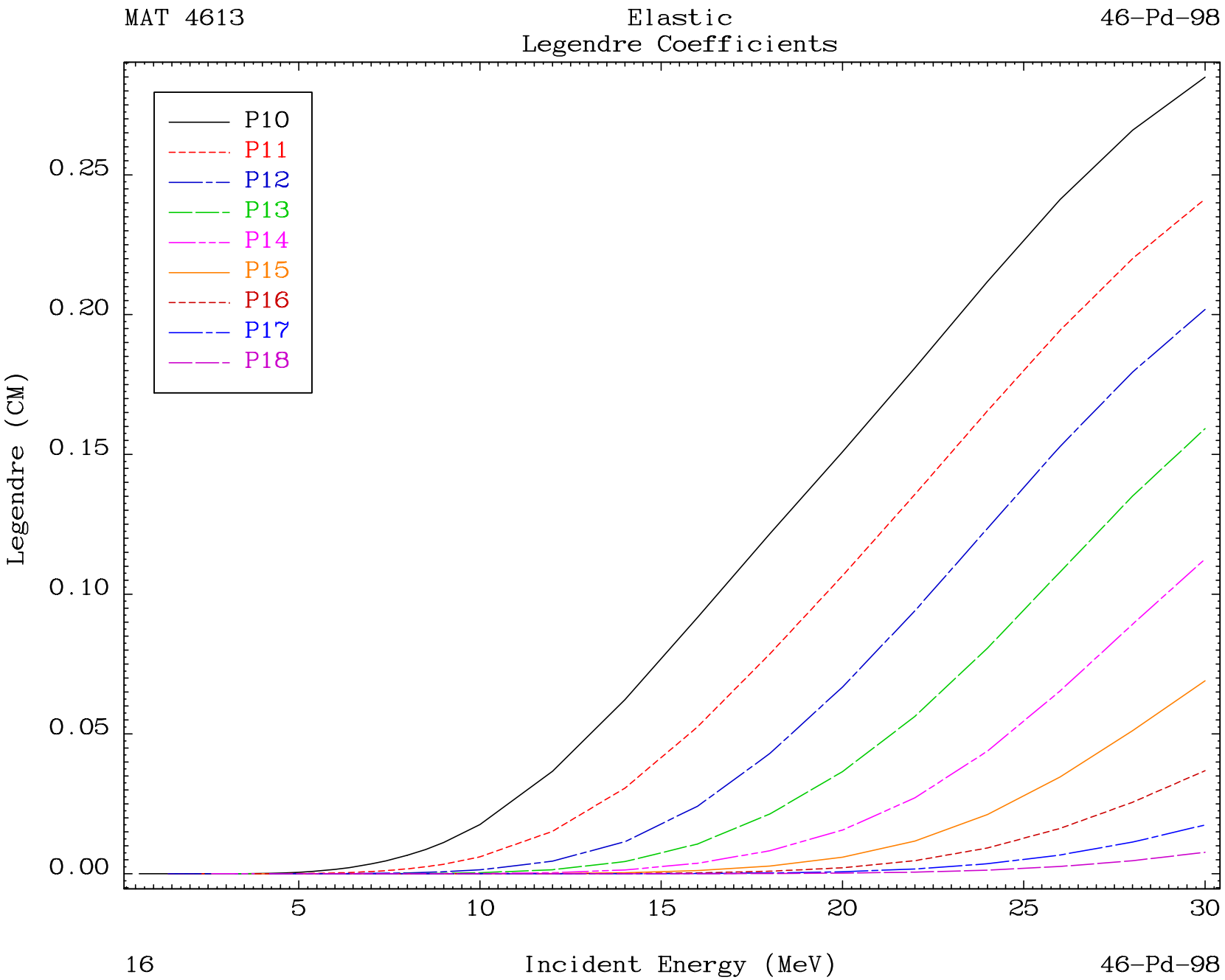

MAT 4613
(n,t) Levels
46-Pd-98
293 Kelvin Cross Sections
(n,t)
Cross Section (barns)
Incident Energy (MeV)
11
46-Pd-98

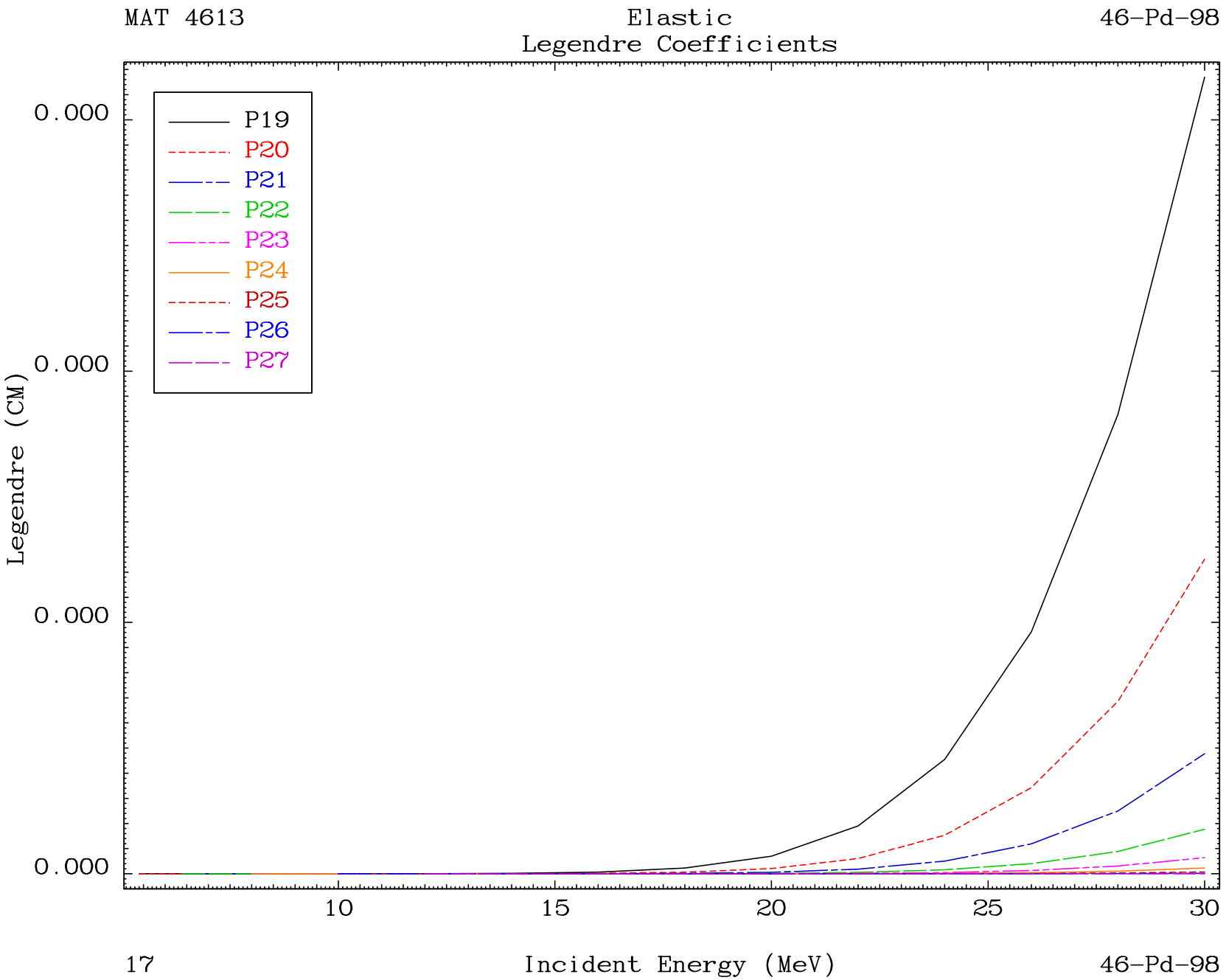

MAT 4613
(n,He3) Levels
46-Pd-98
293 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
Incident Energy (MeV)
12
46-Pd-98

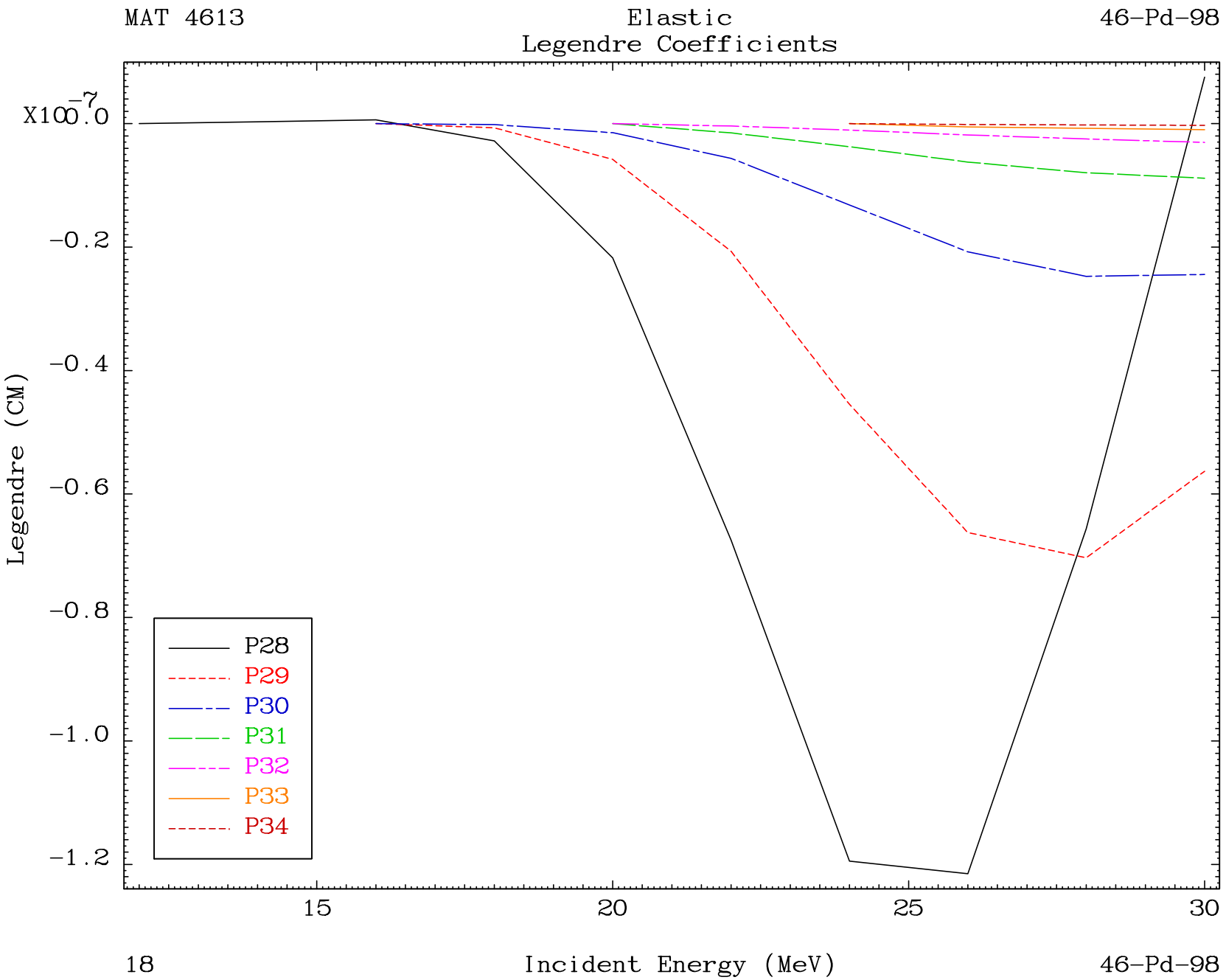

MAT 4613
(n,α) Levels
46-Pd-98
293 Kelvin Cross Sections
Cross Section (barns)
5
10^0
5
10^-1
5
10^-2
5
10^-3
(n,α)
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
13
Incident Energy (MeV)
46-Pd-98

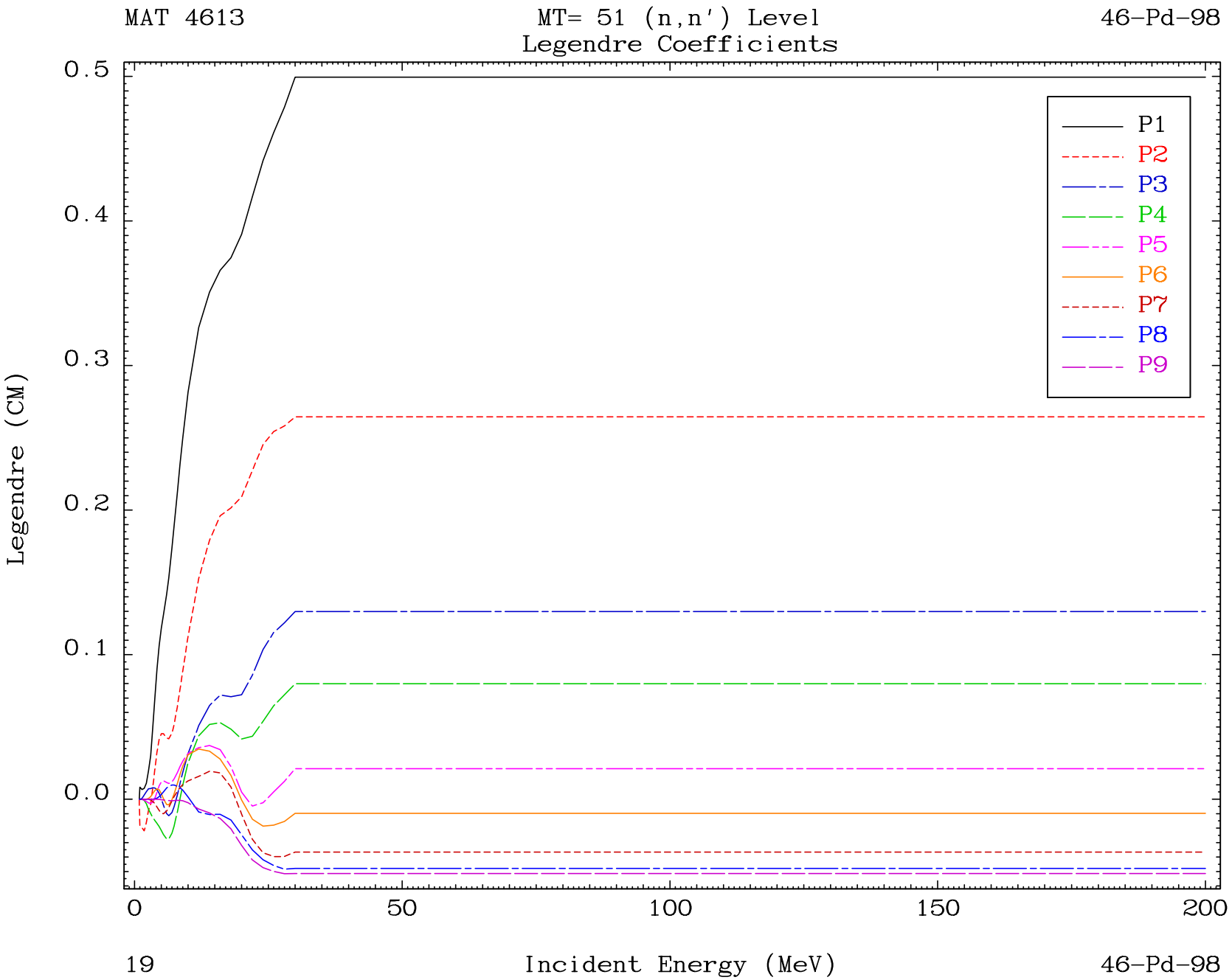

MAT 4613
Energy Release
Parameters
46-Pd-98
Kerma total (eV-barns)
Kerma elastic
Kerma non-elastic (all but mt2)
Kerma inelastic (mt51-91)
Kerma capture (mt102)
Total photon (eV-barns)
Total kinematic kerma (high limit)
Dpa total (eV-barns)
Dpa elastic (mt2)
Dpa inelastic (mt51-91)
Dpa disappearance (mt102 -120)
Parameters
Incident Energy (MeV)
14
46-Pd-98

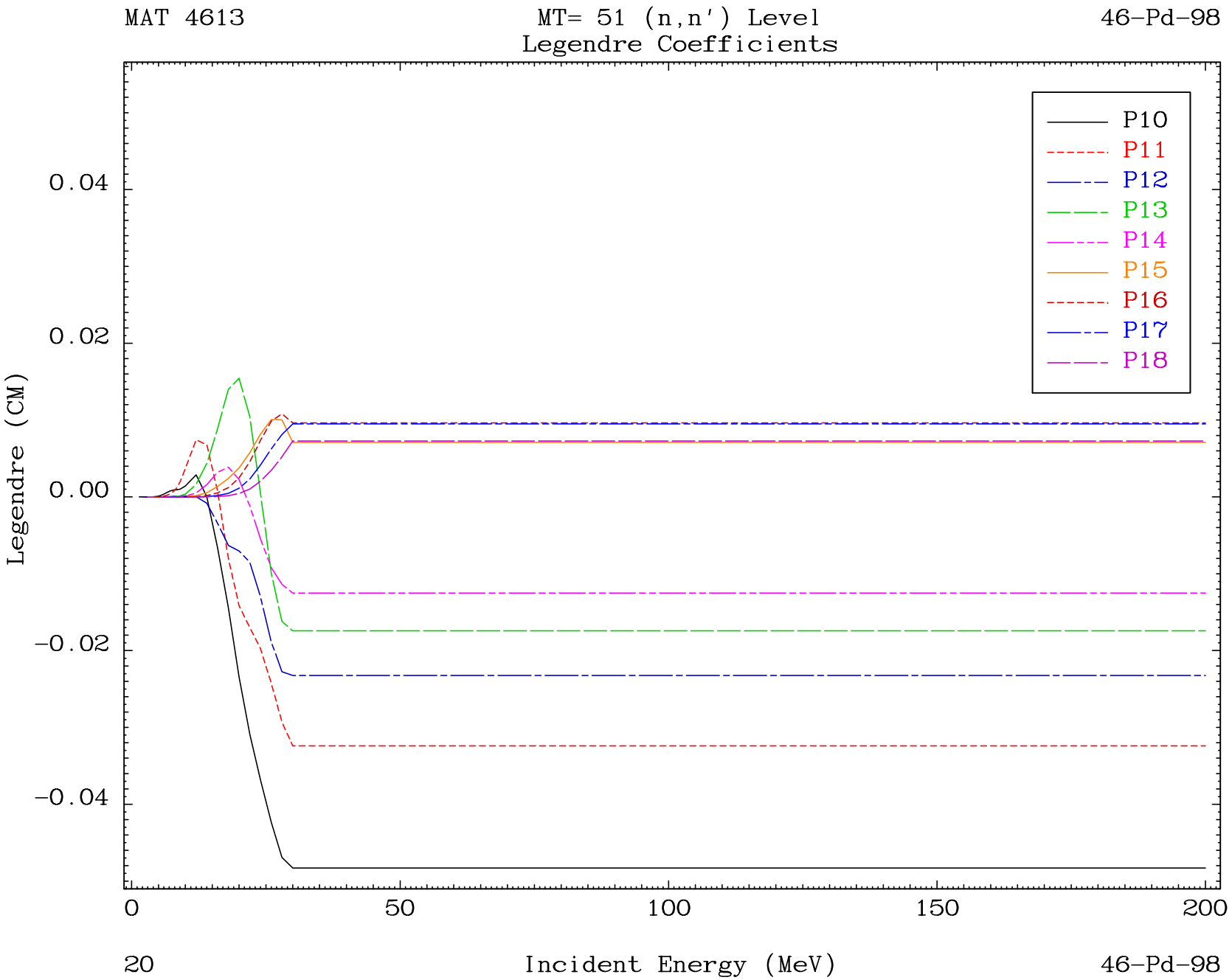

MAT 4613
Elastic
Legendre Coefficients
46-Pd-98
P1
P2
P3
P4
P5
P6
P7
P8
P9
Legendre (CM)
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
15
Incident Energy (MeV)
46-Pd-98

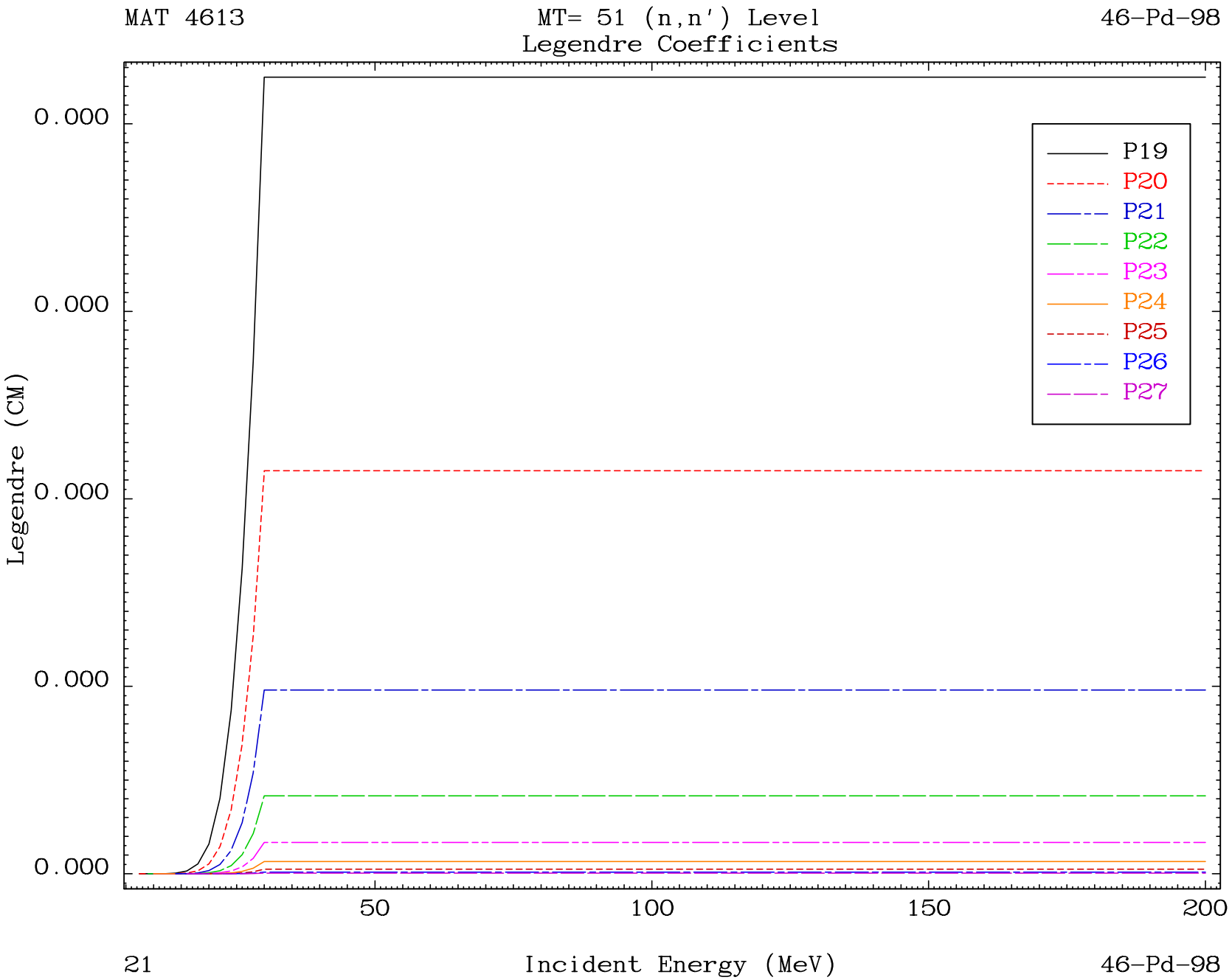

MAT 4613
Elastic
Legendre Coefficients
46-Pd-98
P10
P11
P12
P13
P14
P15
P16
P17
P18
Legendre (CM)
0.25
0.20
0.15
0.10
0.05
0.00
5
10
15
20
25
30
16
Incident Energy (MeV)
46-Pd-98

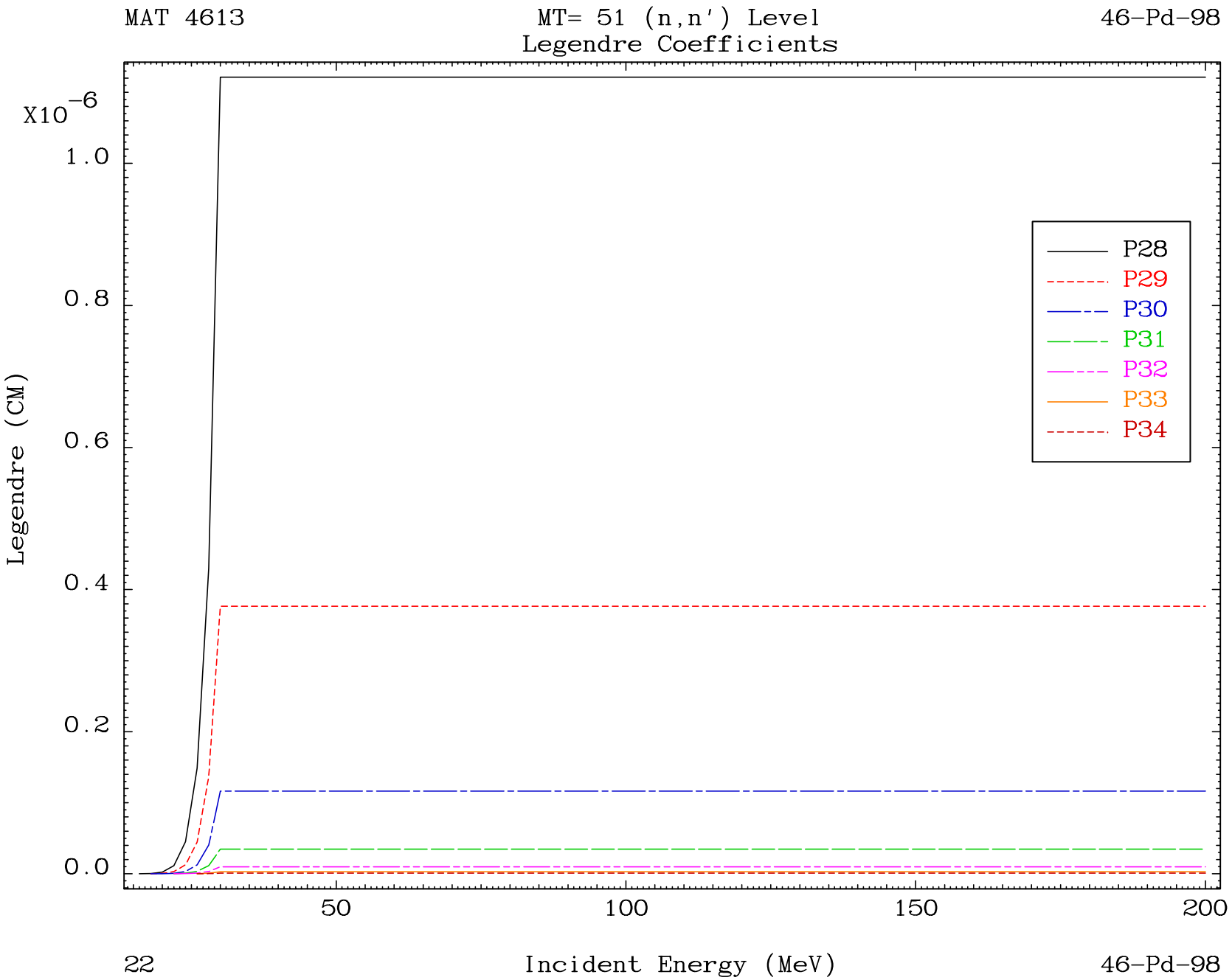

MAT 4613
Elastic
Legendre Coefficients
46-Pd-98
P19
P20
P21
P22
P23
P24
P25
P26
P27
0.000
0.000
0.000
0.000
Legendre (CM)
10
15
20
25
30
17
Incident Energy (MeV)
46-Pd-98

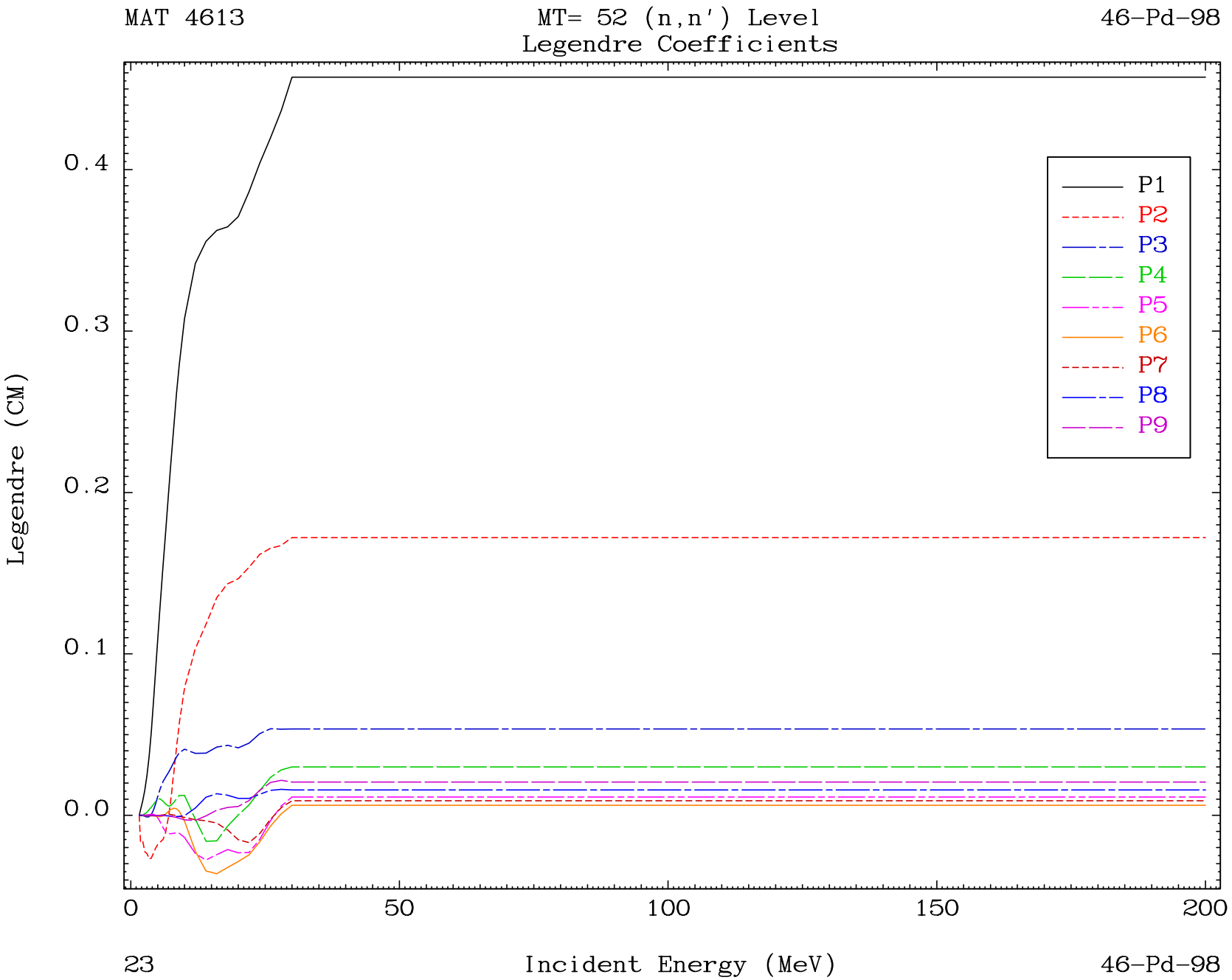

MAT 4613
Elastic
46-Pd-98
Legendre Coefficients
X10^-7
0.0
-0.2
-0.4
-0.6
-0.8
-1.0
-1.2
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
15
20
25
30
18
Incident Energy (MeV)
46-Pd-98

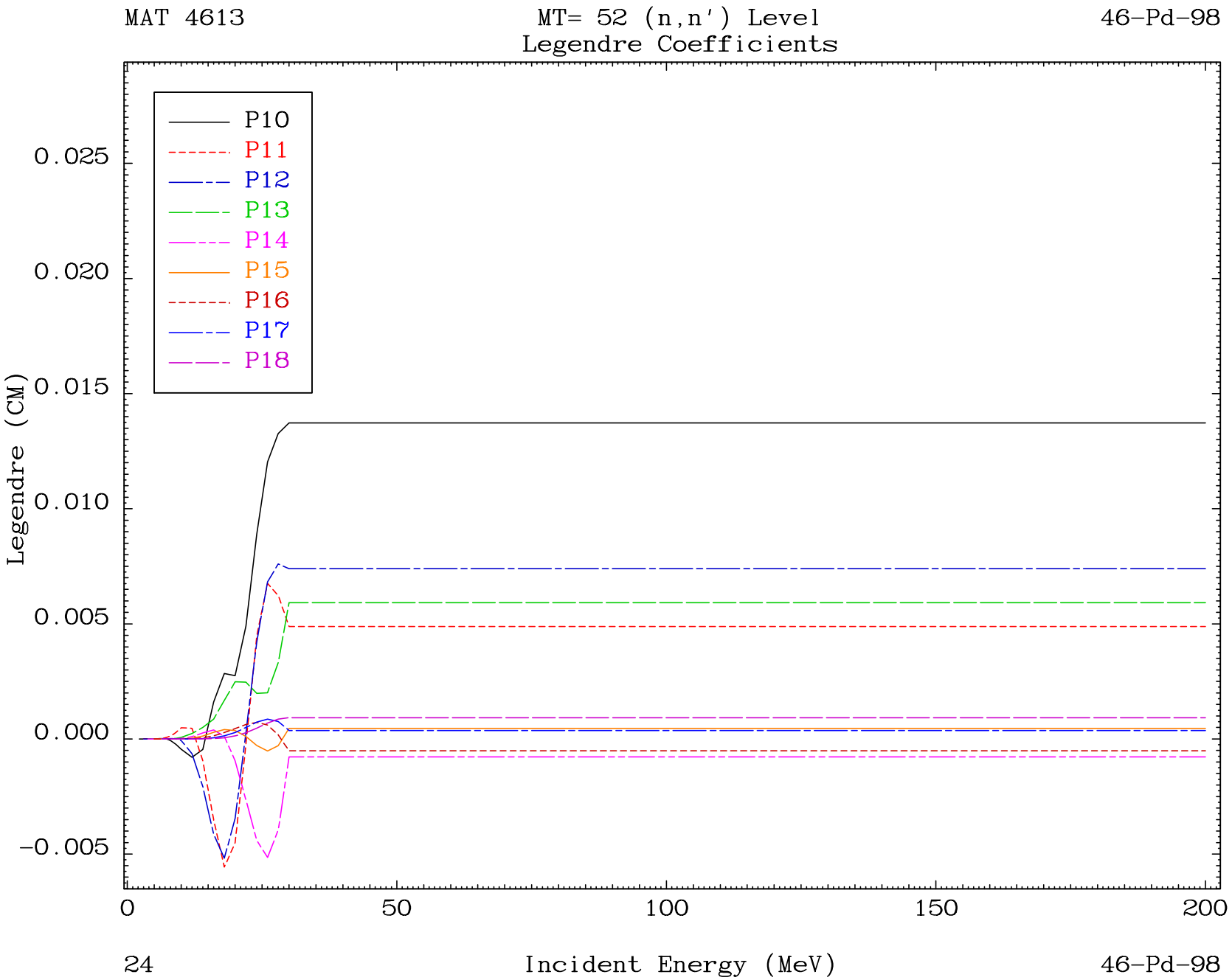

MAT 4613
MT= 51 (n,n') Level
Legendre Coefficients
46-Pd-98
0.5
0.4
0.3
0.2
0.1
0.0
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
19
Incident Energy (MeV)
46-Pd-98

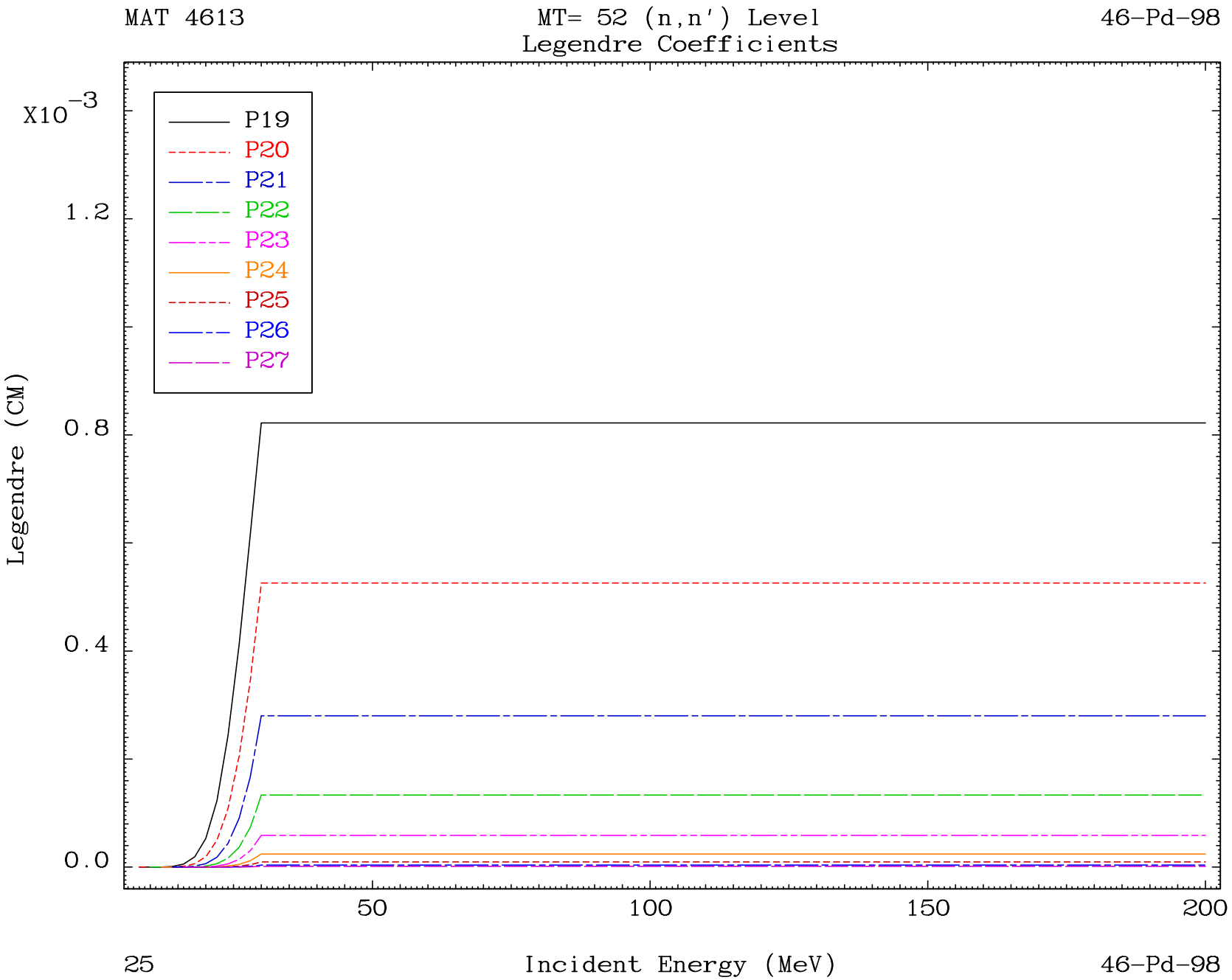

MAT 4613
MT= 51 (n,n') Level
Legendre Coefficients
46-Pd-98
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.04
0.02
0.00
-0.02
-0.04
Legendre (CM)
0
50
100
150
200
20
Incident Energy (MeV)
46-Pd-98

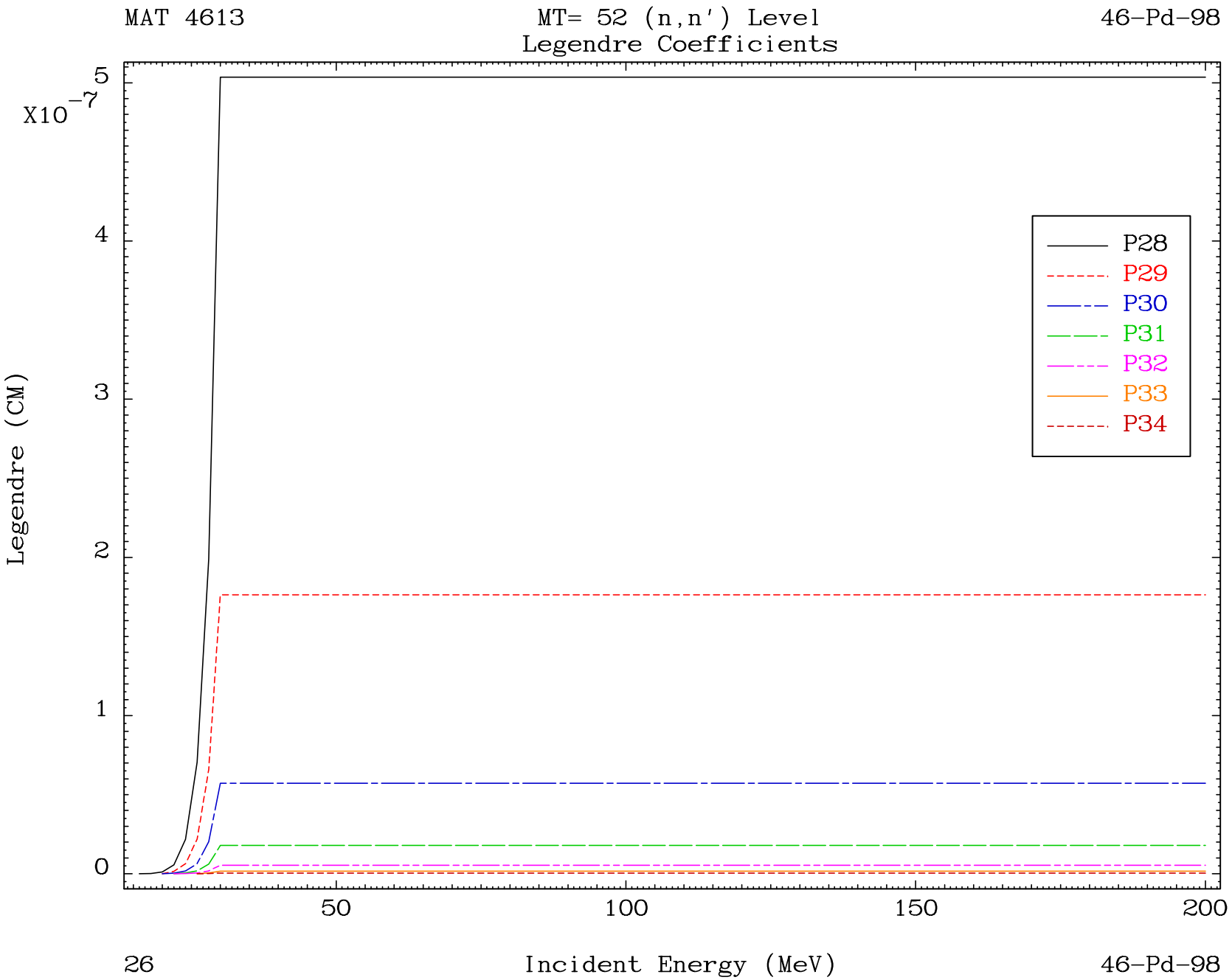

MAT 4613
MT= 51 (n,n') Level
Legendre Coefficients
46-Pd-98
0.000
0.000
0.000
0.000
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
21
Incident Energy (MeV)
46-Pd-98

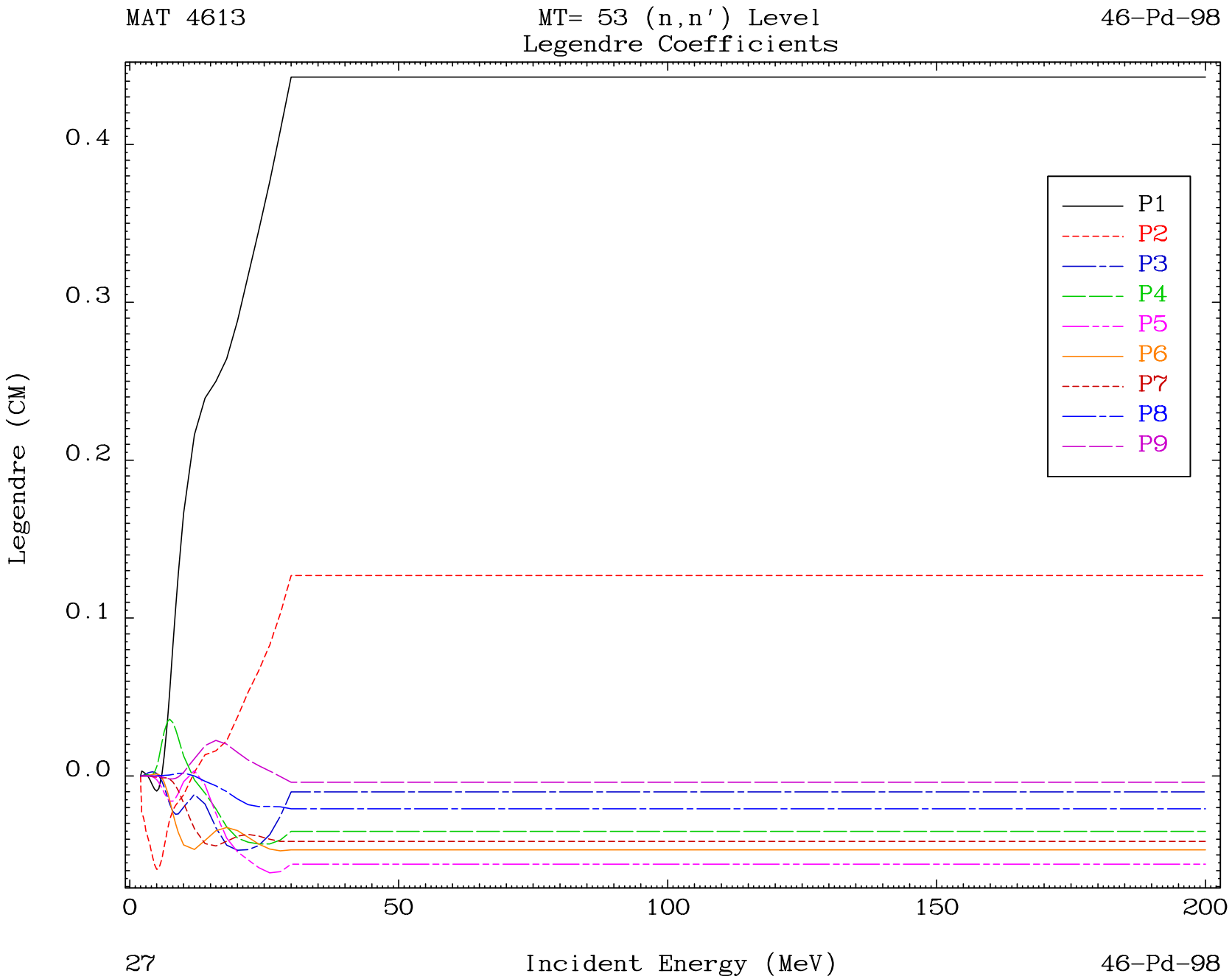

MAT 4613
MT= 51 (n,n') Level
Legendre Coefficients
46-Pd-98
X10^-6
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
22
Incident Energy (MeV)
46-Pd-98

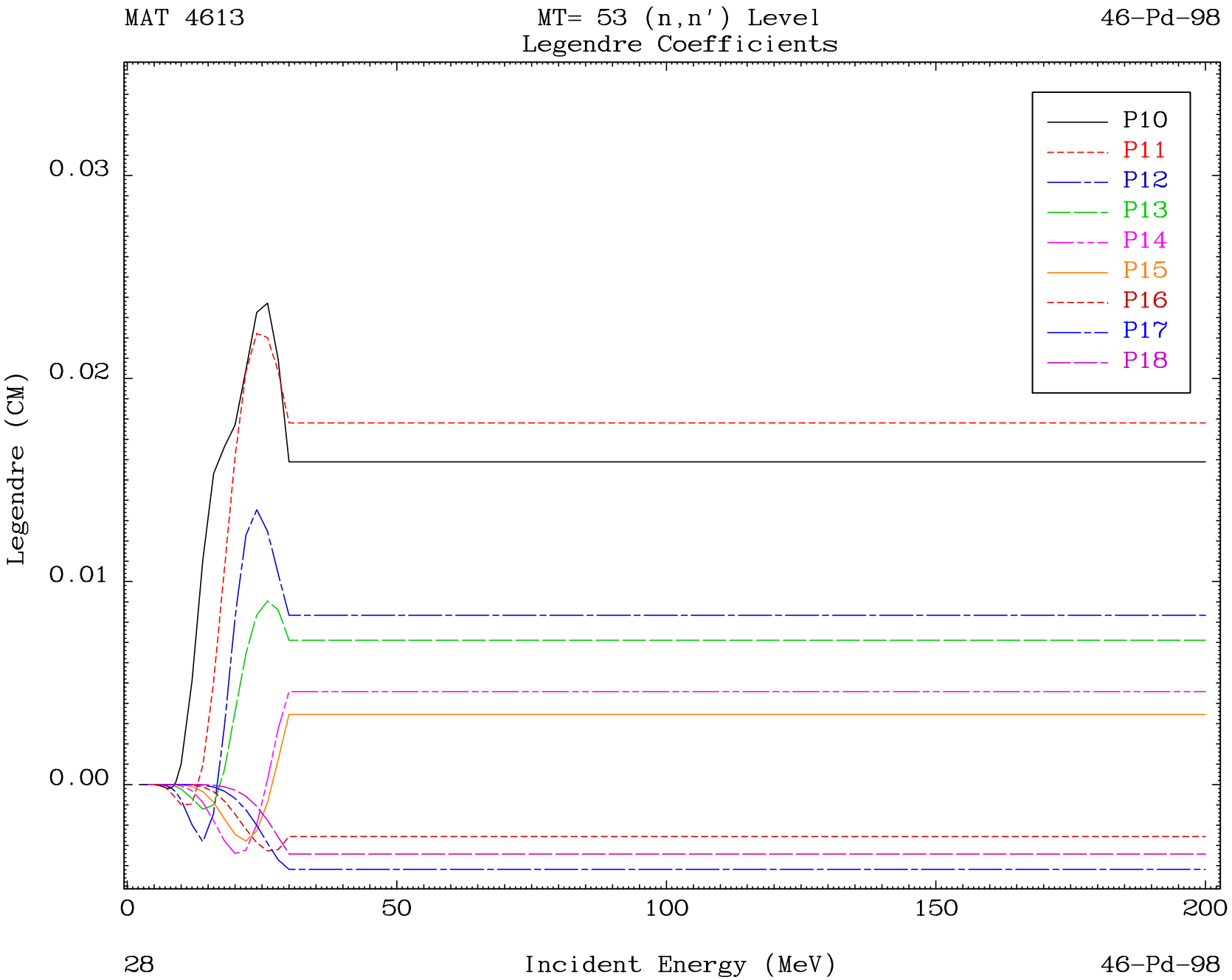

MAT 4613
MT= 52 (n,n') Level
Legendre Coefficients
46-Pd-98
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
23
Incident Energy (MeV)
46-Pd-98

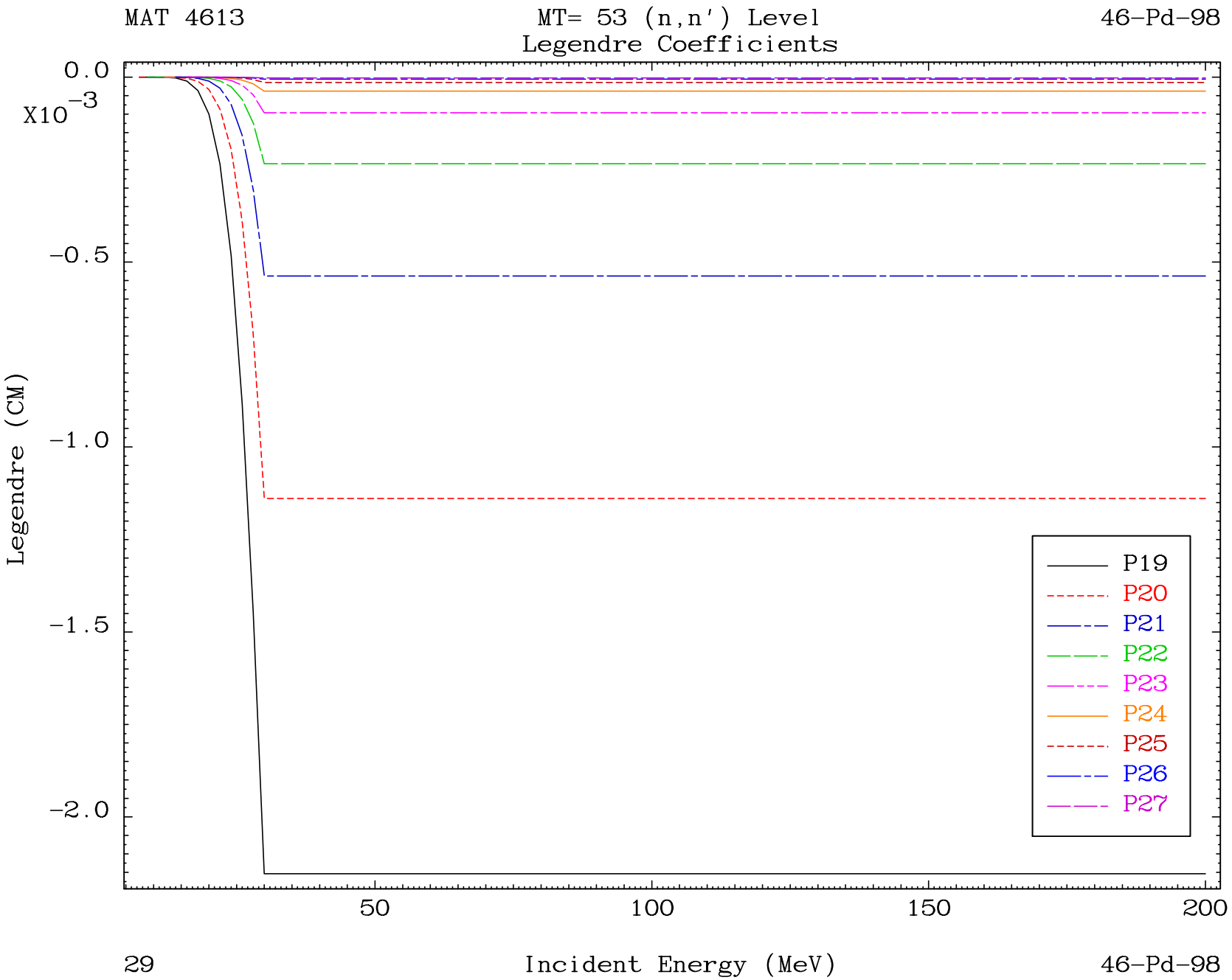

MAT 4613
MT= 52 (n,n') Level
Legendre Coefficients
46-Pd-98
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.025
0.020
0.015
0.010
0.005
0.000
-0.005
Legendre (CM)
0
50
100
150
200
24
Incident Energy (MeV)
46-Pd-98

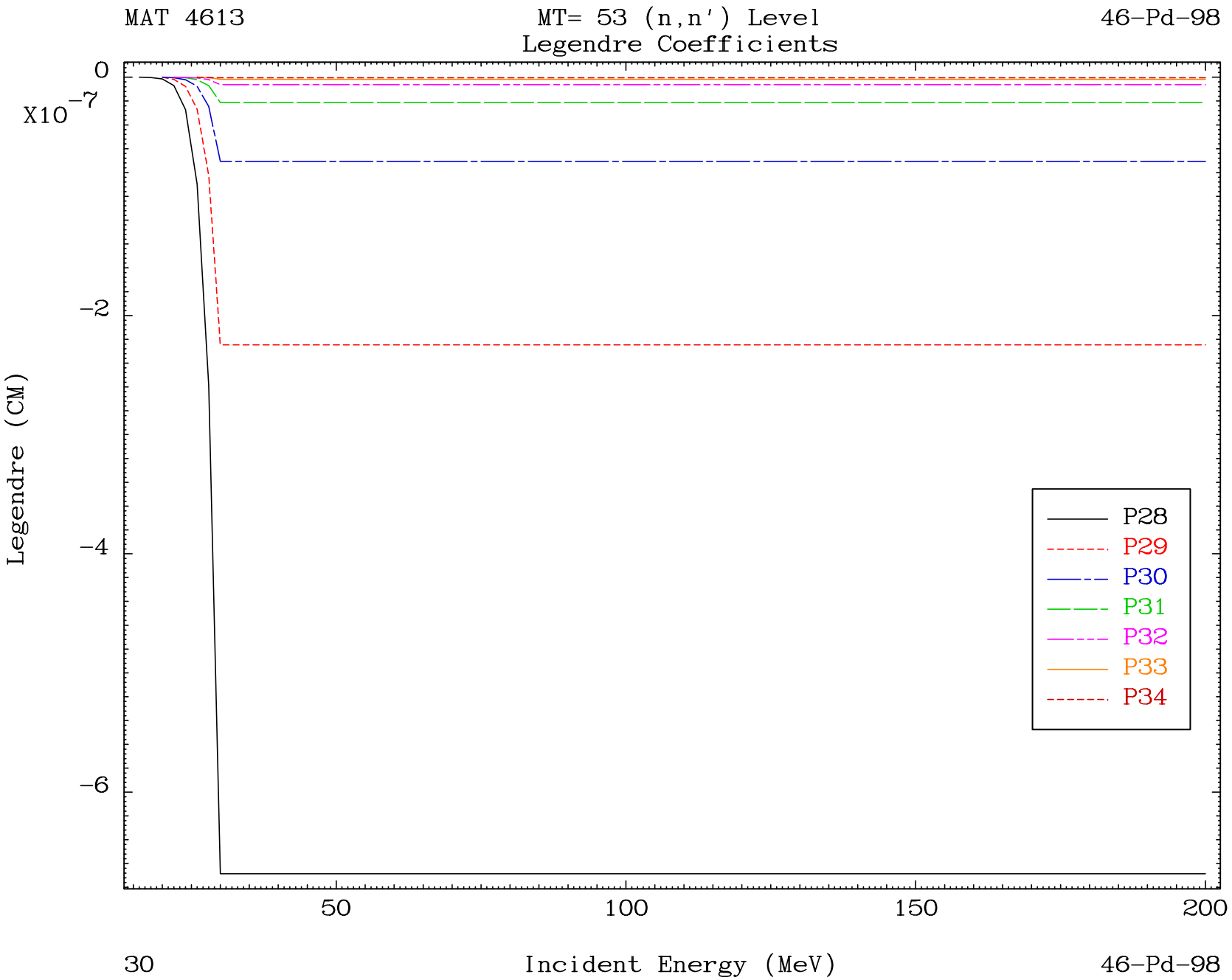

MAT 4613
MT= 52 (n,n') Level
Legendre Coefficients
46-Pd-98
X10-3
1.2
0.8
0.4
0.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
25
Incident Energy (MeV)
46-Pd-98

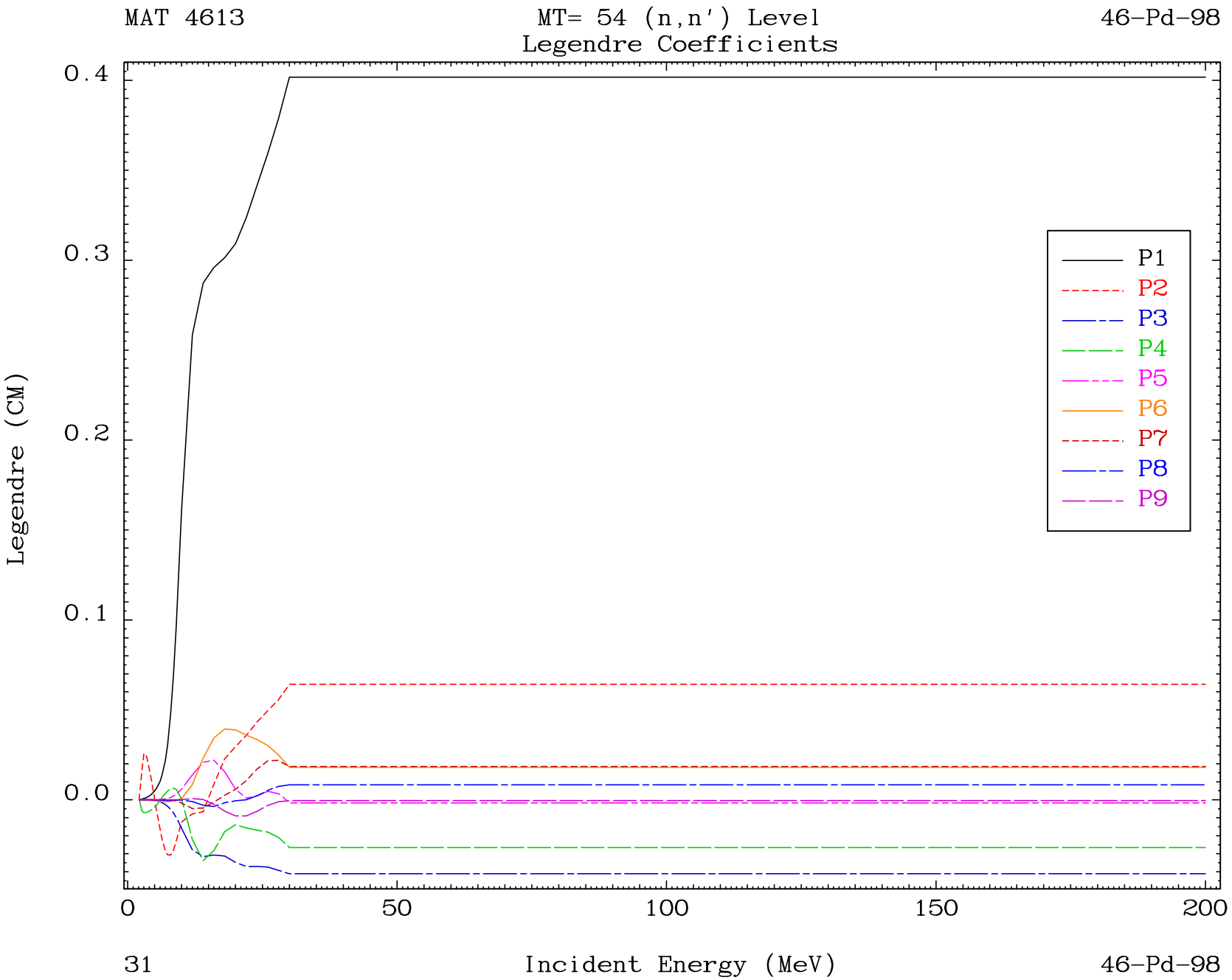

MAT 4613
MT= 52 (n,n') Level
Legendre Coefficients
46-Pd-98
X10-7
5
4
3
2
1
0
Legendre (CM)
50
100
150
200
26
Incident Energy (MeV)
46-Pd-98
P28
P29
P30
P31
P32
P33
P34

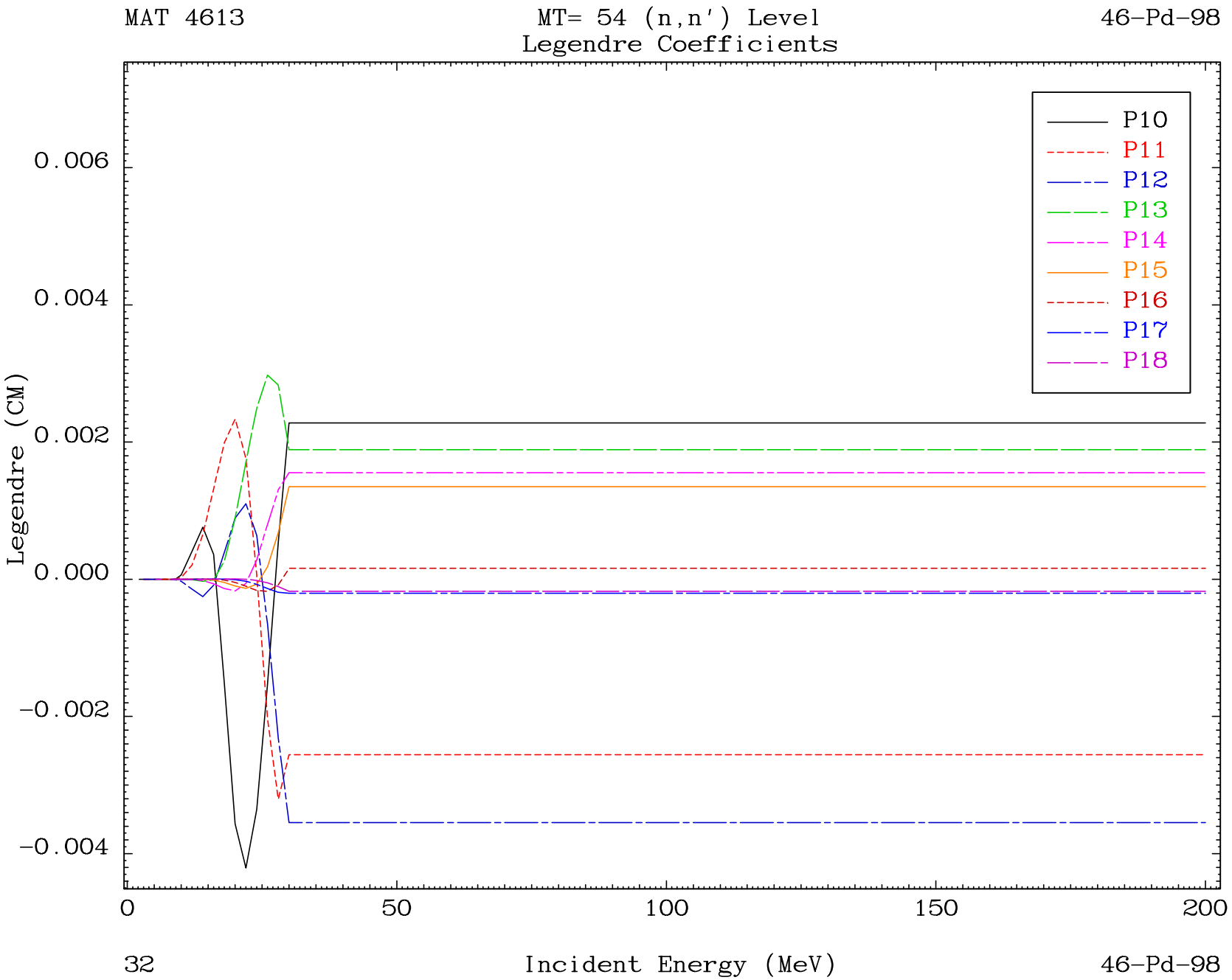

MAT 4613
MT= 53 (n,n') Level
Legendre Coefficients
46-Pd-98
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
27
Incident Energy (MeV)
46-Pd-98

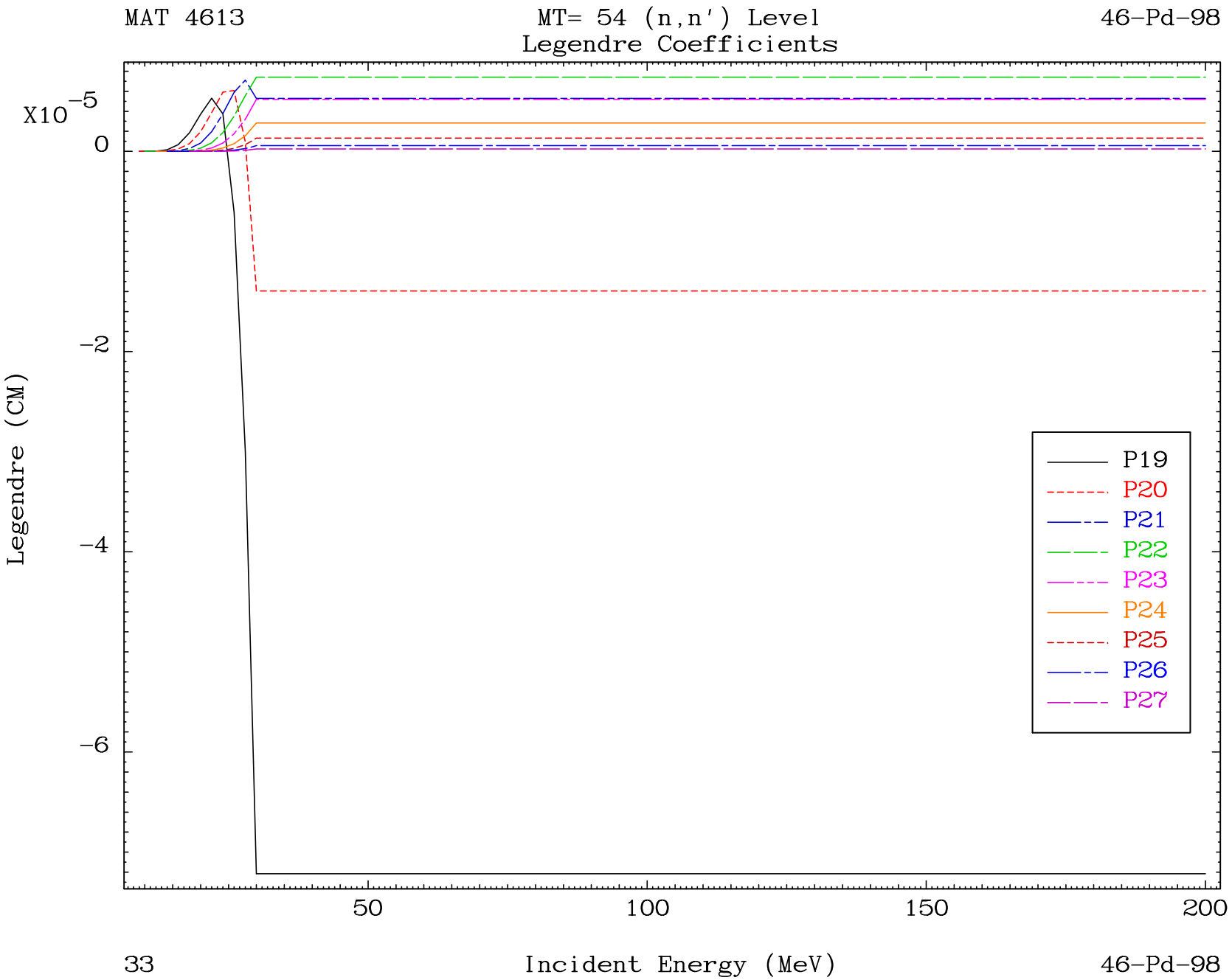

MAT 4613
MT= 53 (n,n') Level
Legendre Coefficients
46-Pd-98
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.03
0.02
0.01
0.00
Legendre (CM)
0
50
100
150
200
28
Incident Energy (MeV)
46-Pd-98

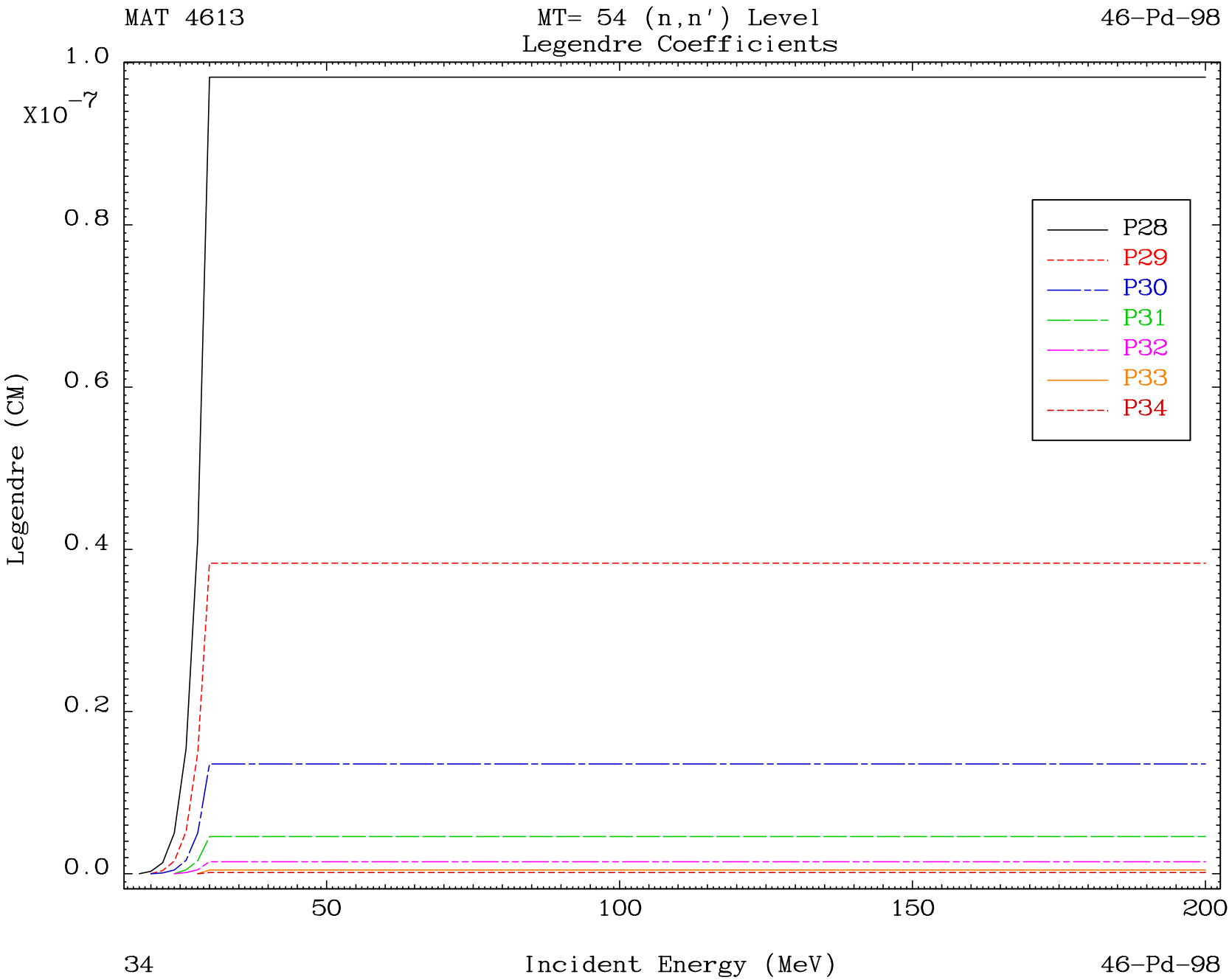

MAT 4613
MT= 53 (n,n') Level
Legendre Coefficients
46-Pd-98
0.0
X10^-3
-0.5
-1.0
-1.5
-2.0
Legendre (CM)
50
100
150
200
29
Incident Energy (MeV)
46-Pd-98
P19
P20
P21
P22
P23
P24
P25
P26
P27

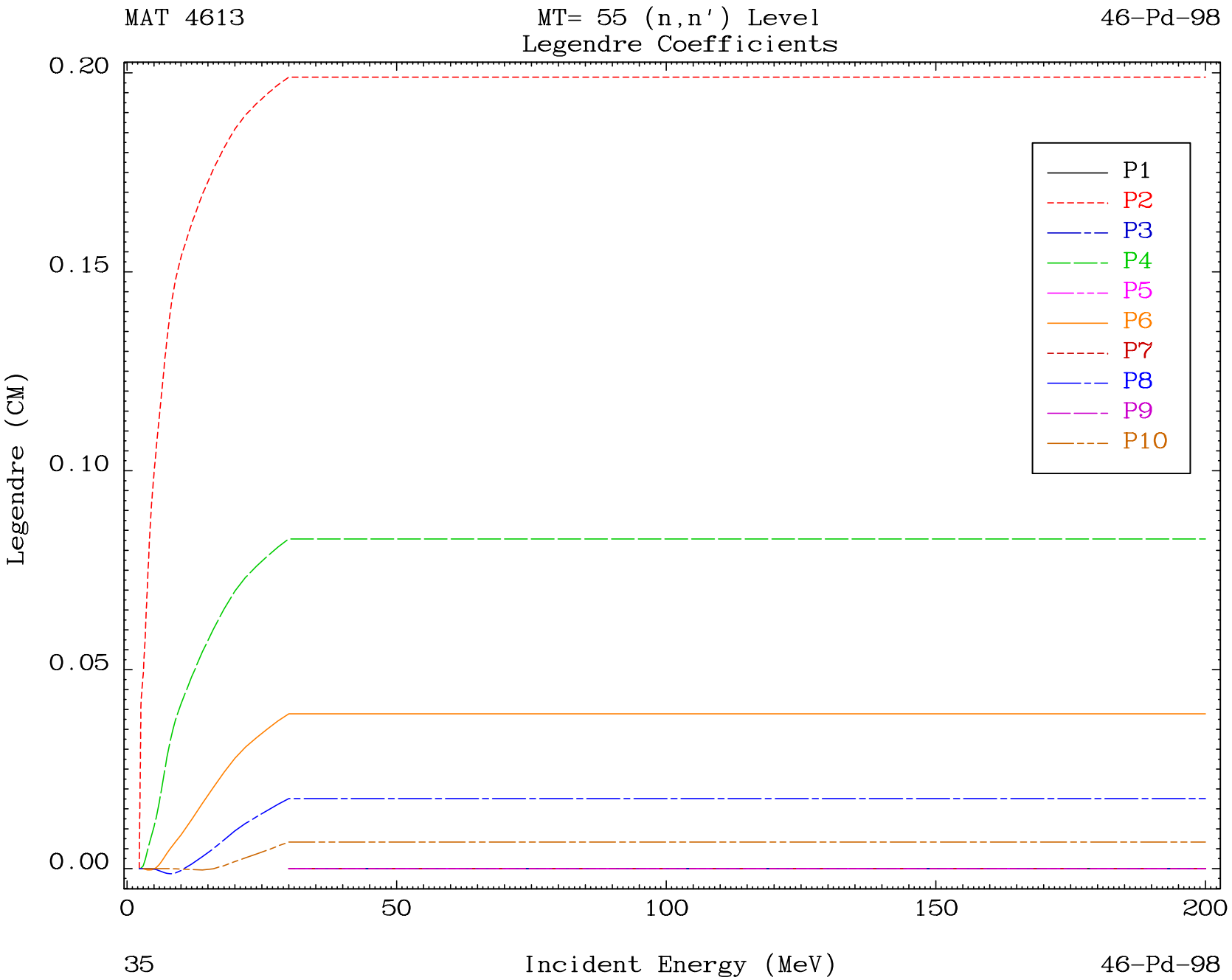

MAT 4613
MT= 53 (n,n') Level
Legendre Coefficients
46-Pd-98
0
X10-7
-2
-4
-6
Legendre (CM)
50
100
150
200
30
Incident Energy (MeV)
46-Pd-98
P28
P29
P30
P31
P32
P33
P34

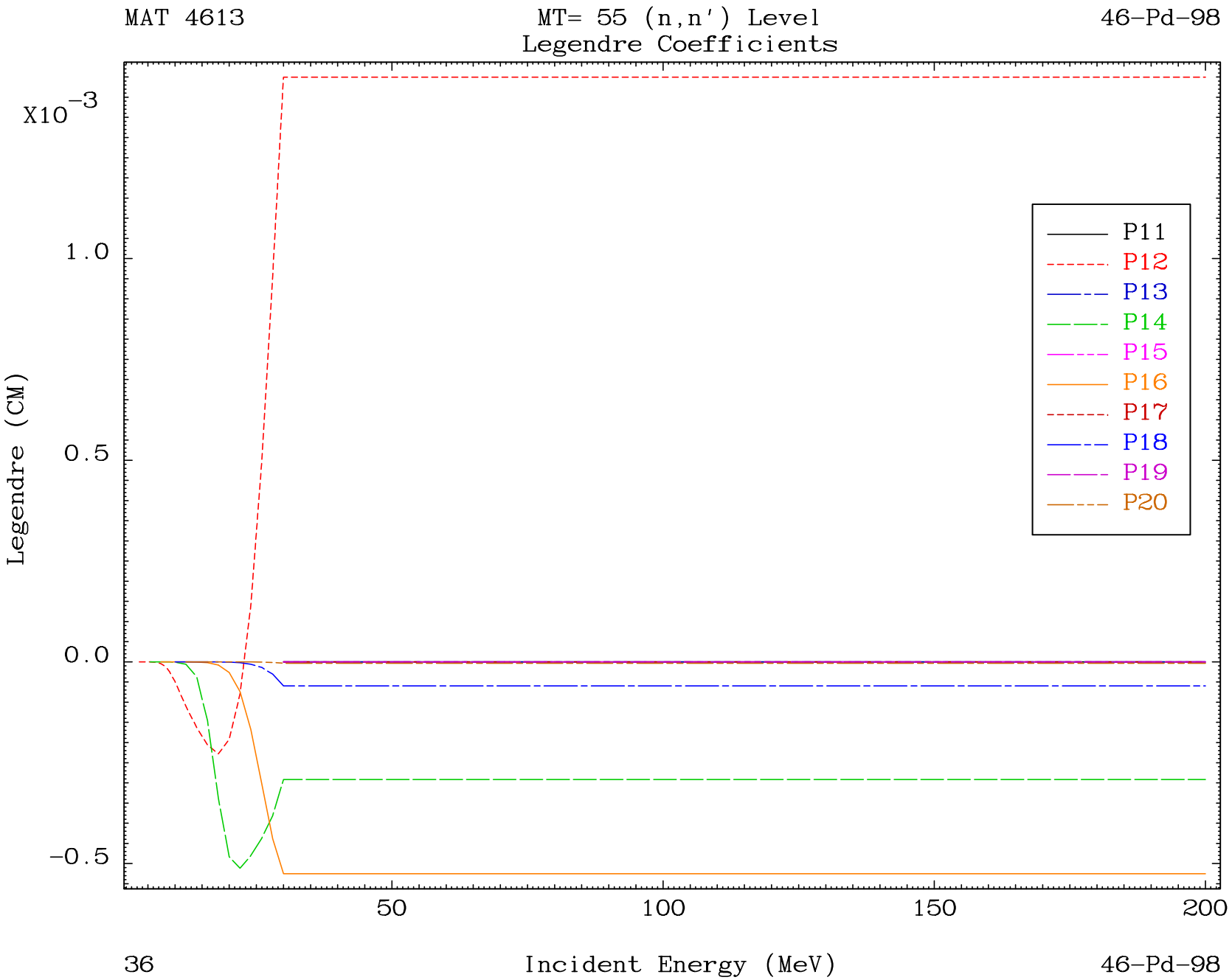

MAT 4613
MT= 54 (n,n') Level
Legendre Coefficients
46-Pd-98
0.4
0.3
0.2
0.1
0.0
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
31
Incident Energy (MeV)
46-Pd-98

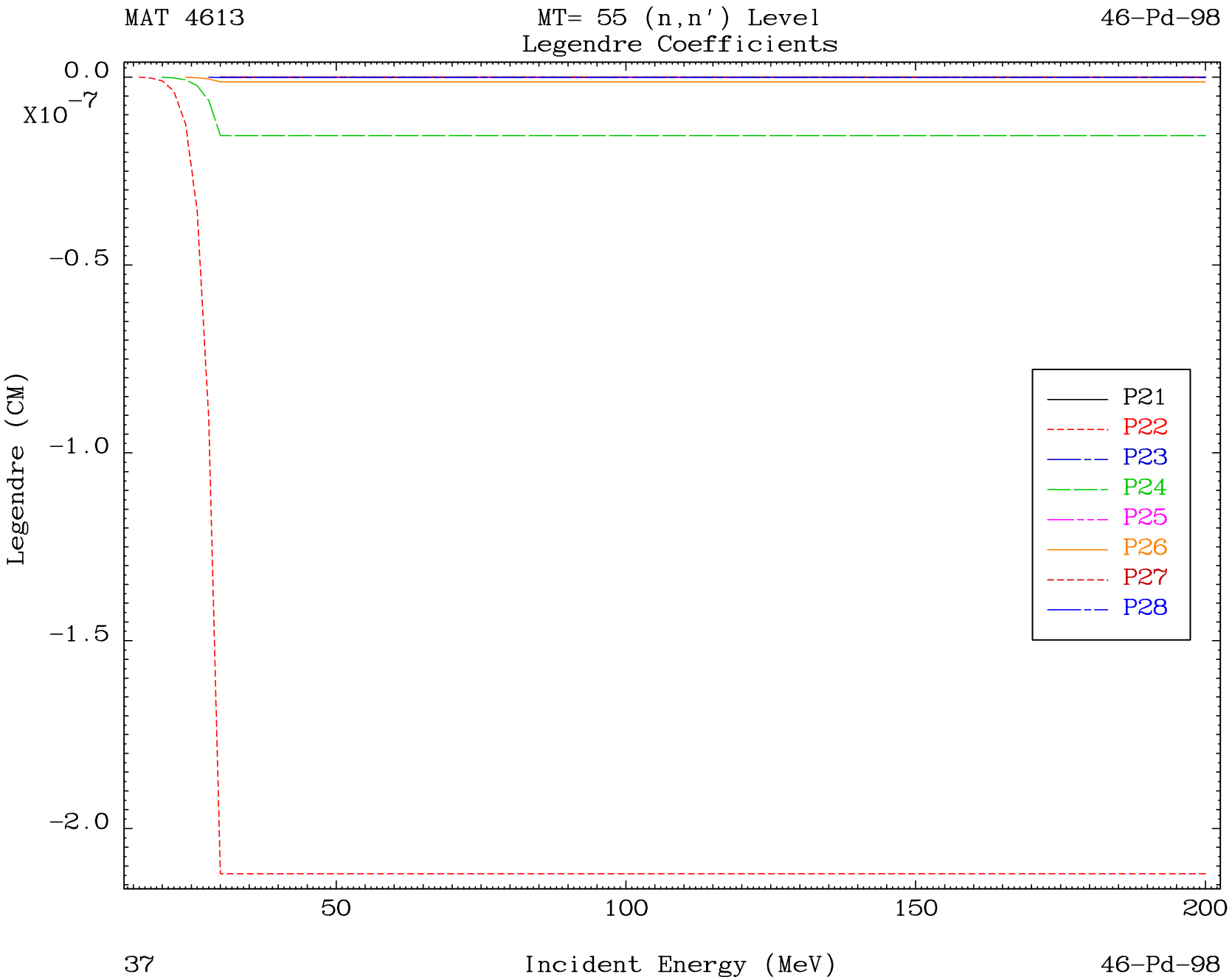

MAT 4613
MT= 54 (n,n') Level
Legendre Coefficients
46-Pd-98
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.006
0.004
0.002
0.000
-0.002
-0.004
Legendre (CM)
0
50
100
150
200
32
Incident Energy (MeV)
46-Pd-98

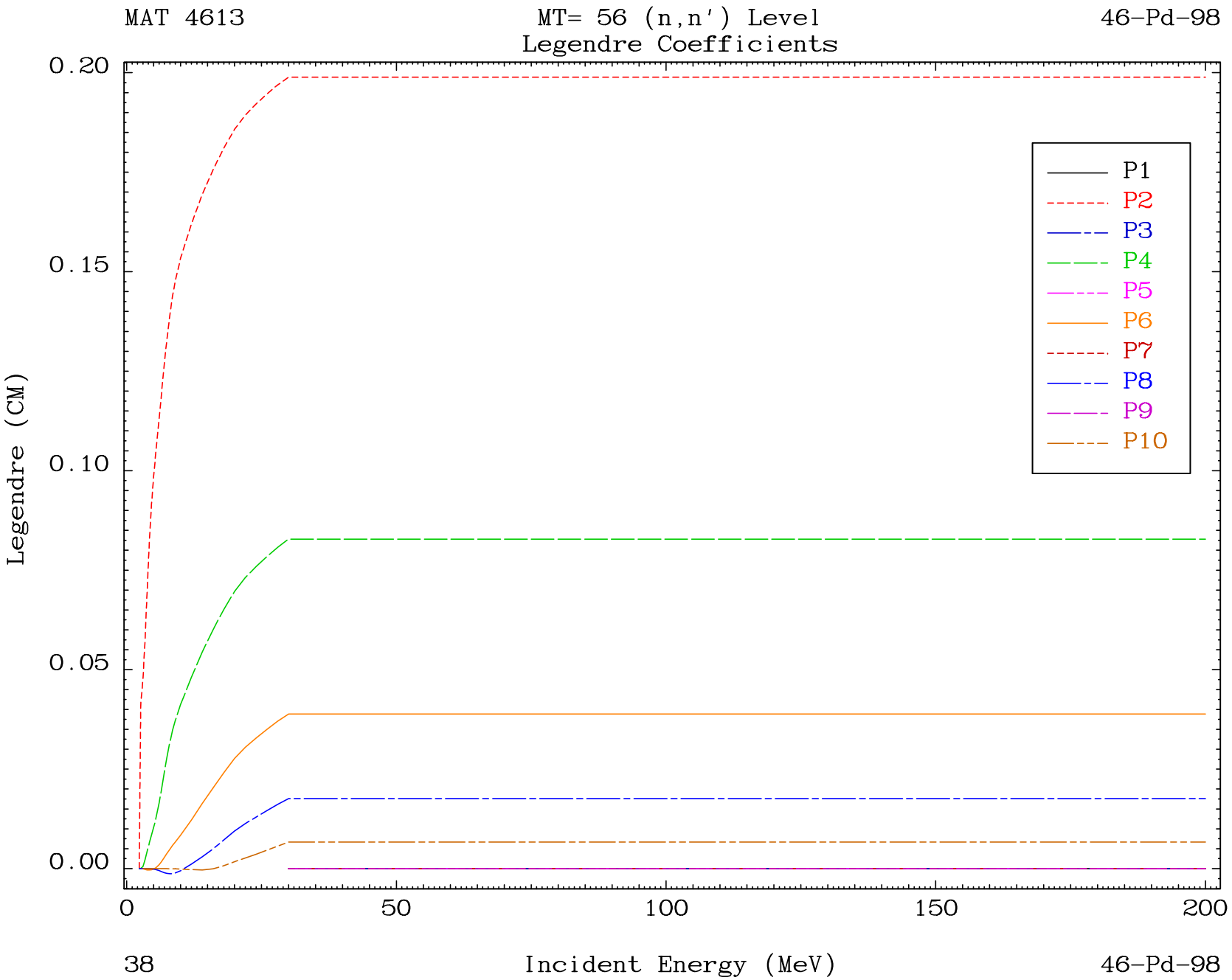

MAT 4613
MT= 54 (n,n') Level
Legendre Coefficients
46-Pd-98
X10^-5
0
-2
-4
-6
Legendre (CM)
50
100
150
200
33
Incident Energy (MeV)
46-Pd-98
P19
P20
P21
P22
P23
P24
P25
P26
P27

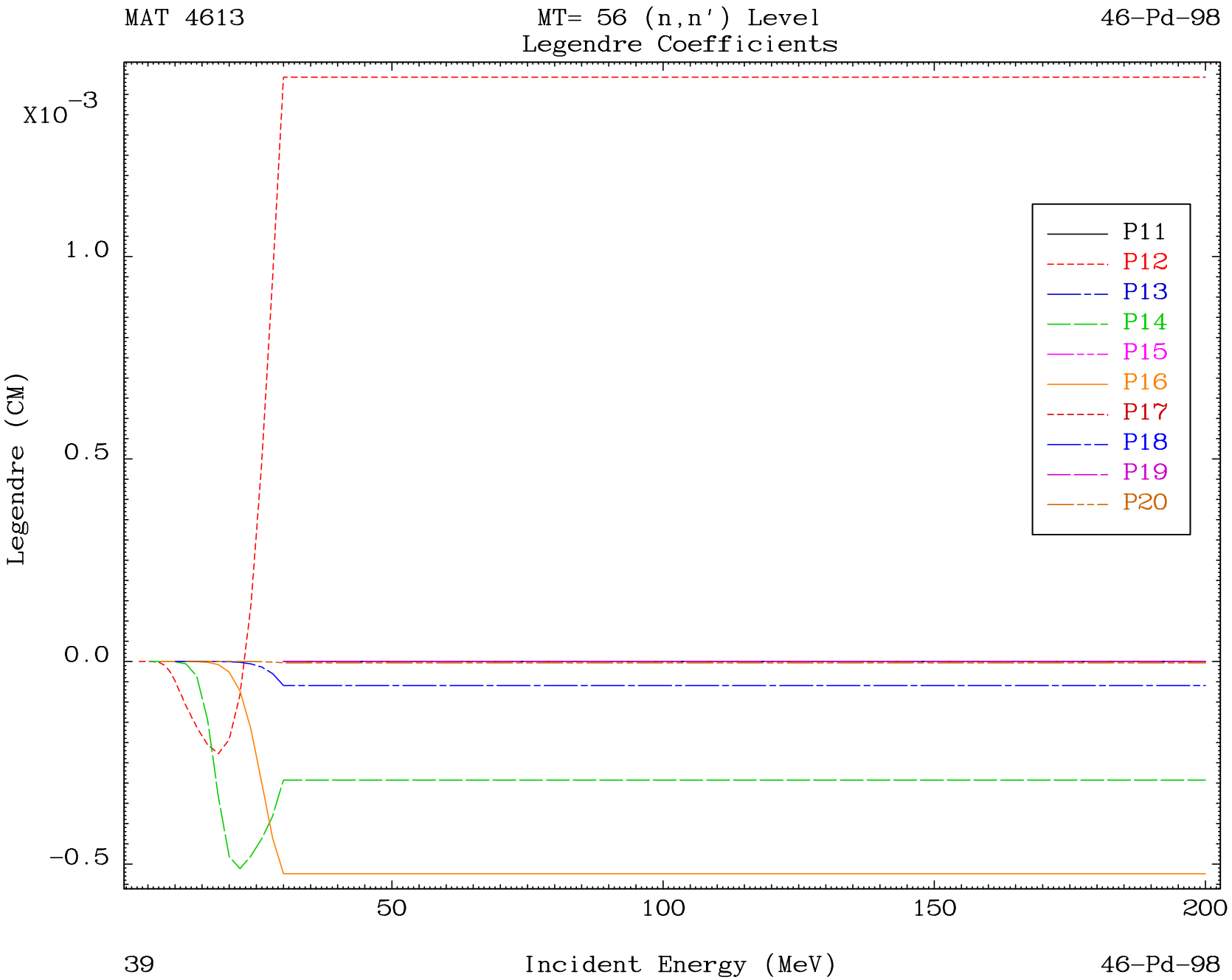

MAT 4613
MT= 54 (n,n') Level
Legendre Coefficients
46-Pd-98
1.0
X10^-7
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
34
Incident Energy (MeV)
46-Pd-98

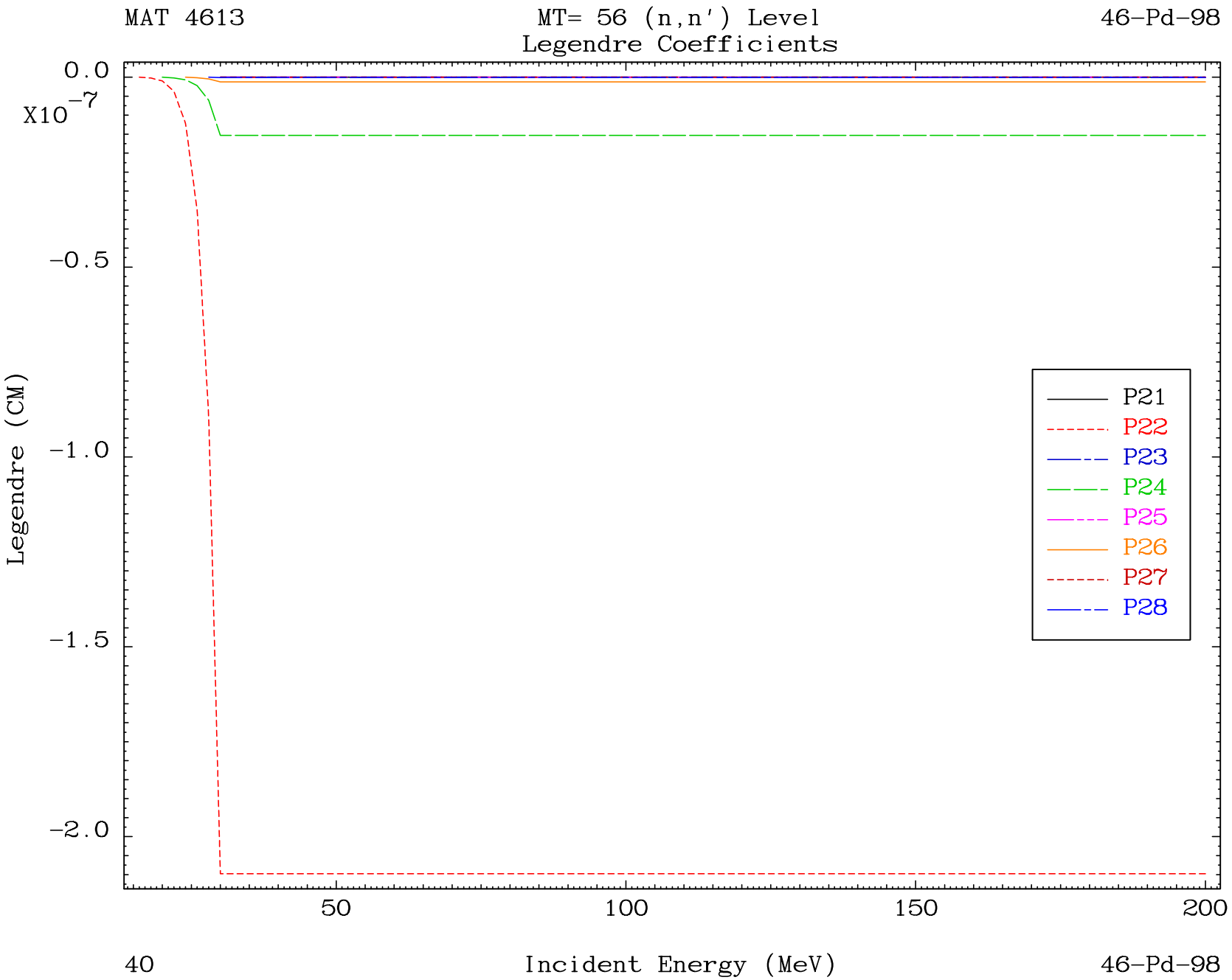

MAT 4613
MT= 55 (n,n') Level
Legendre Coefficients
46-Pd-98
0.20
0.15
0.10
0.05
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
0
50
100
150
200
35
Incident Energy (MeV)
46-Pd-98

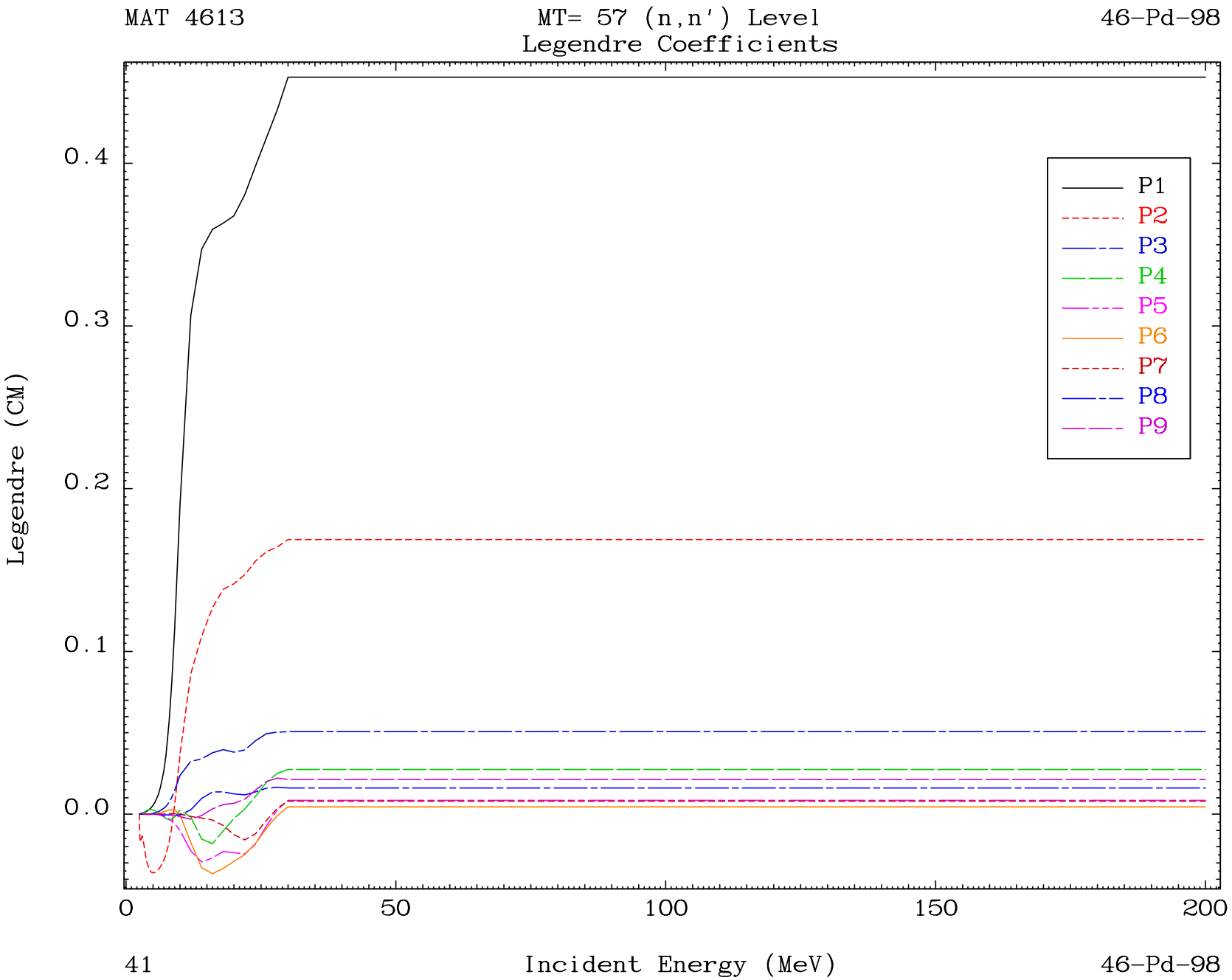

MAT 4613
MT= 55 (n,n') Level
Legendre Coefficients
46-Pd-98
X10^-3
1.0
0.5
0.0
-0.5
Legendre (CM)
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
50
100
150
200
36
Incident Energy (MeV)
46-Pd-98

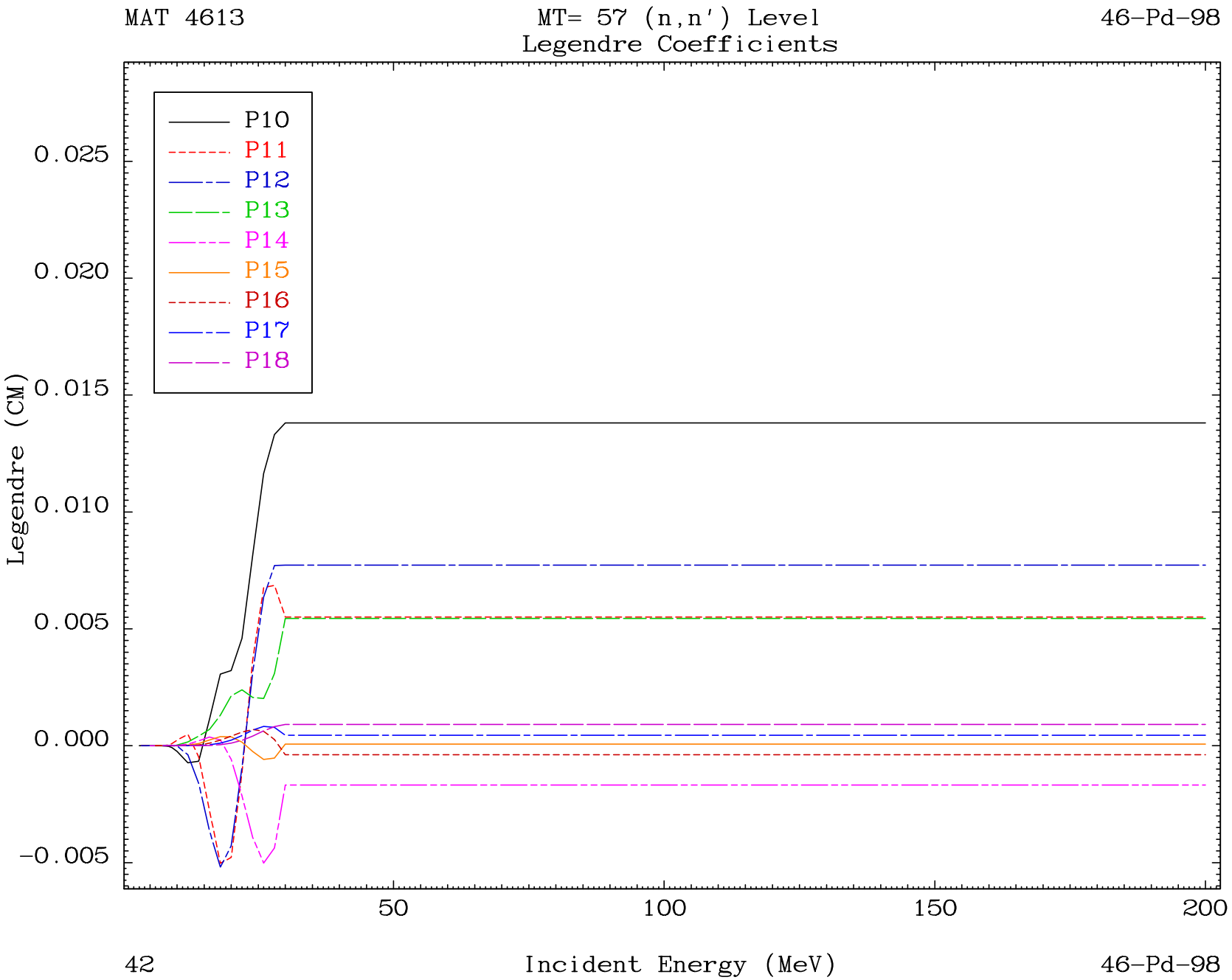

MAT 4613
MT= 55 (n,n') Level
Legendre Coefficients
46-Pd-98
0.0
X10-7
-0.5
-1.0
-1.5
-2.0
Legendre (CM)
50
100
150
200
37
Incident Energy (MeV)
46-Pd-98
P21
P22
P23
P24
P25
P26
P27
P28

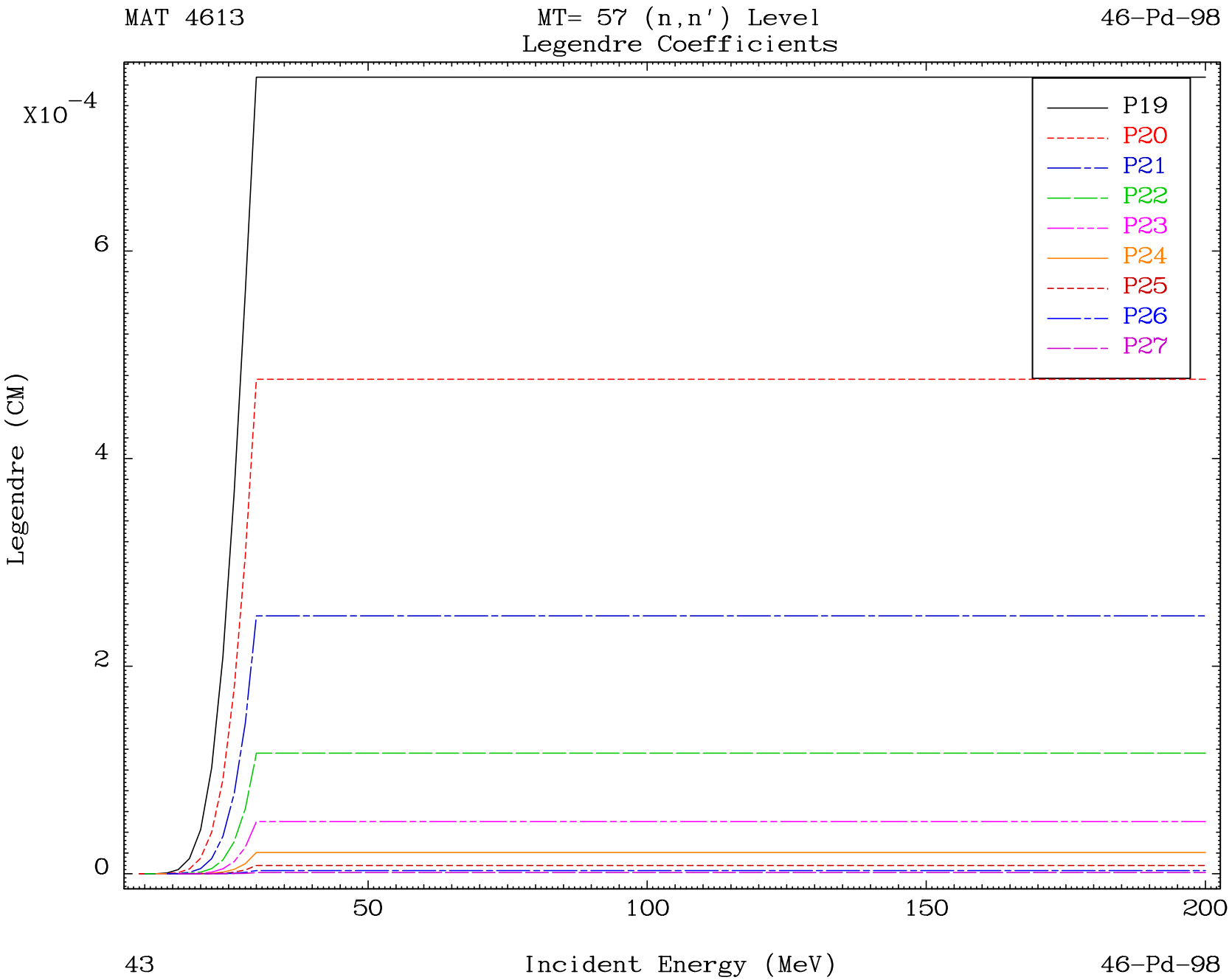

MAT 4613
MT= 56 (n,n') Level
Legendre Coefficients
46-Pd-98
0.20
0.15
0.10
0.05
0.00
Legendre (CM)
0
50
100
150
200
38
Incident Energy (MeV)
46-Pd-98
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10

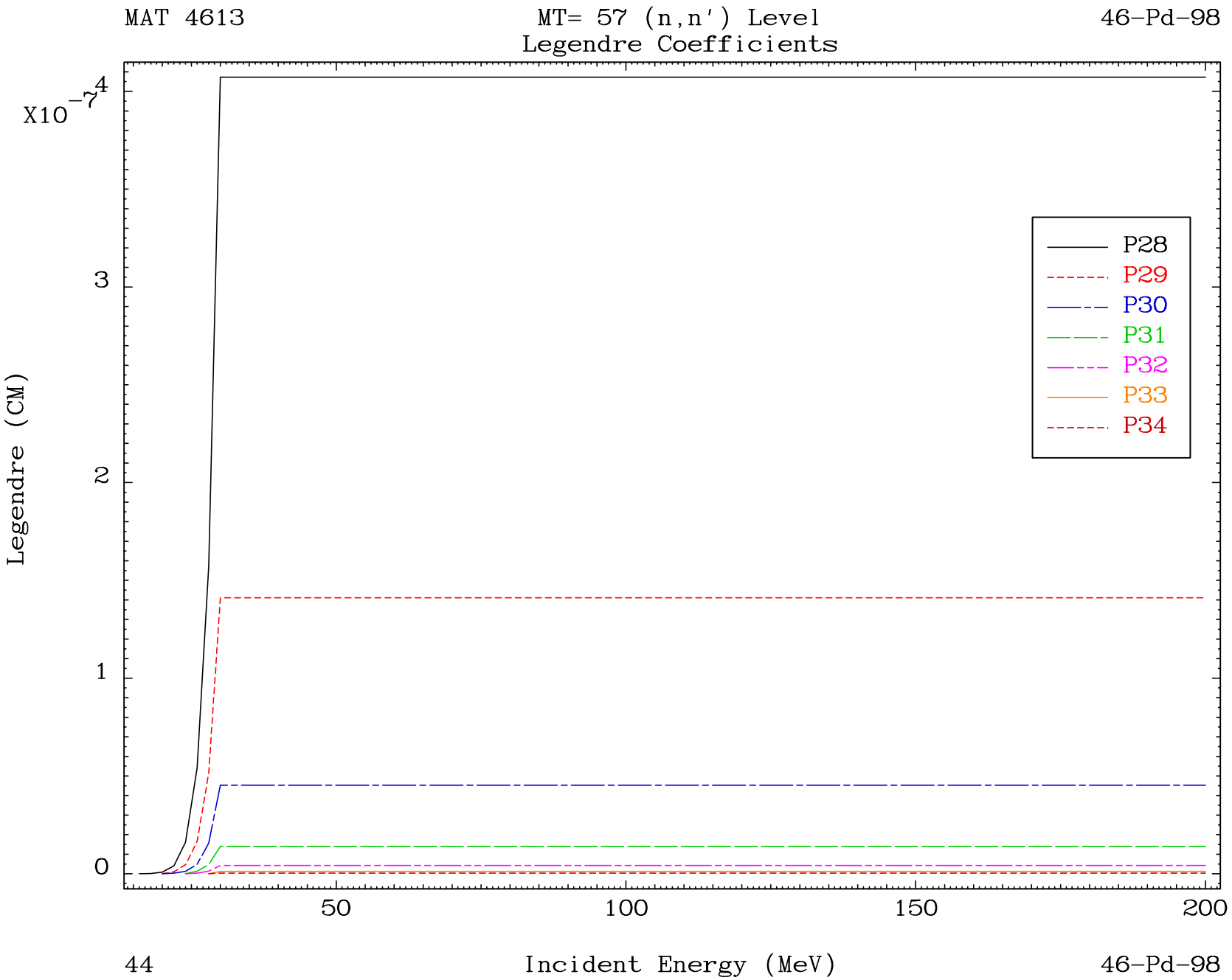

MAT 4613
MT= 56 (n,n') Level
Legendre Coefficients
46-Pd-98
X10^-3
1.0
0.5
0.0
-0.5
Legendre (CM)
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
50
100
150
200
39
Incident Energy (MeV)
46-Pd-98

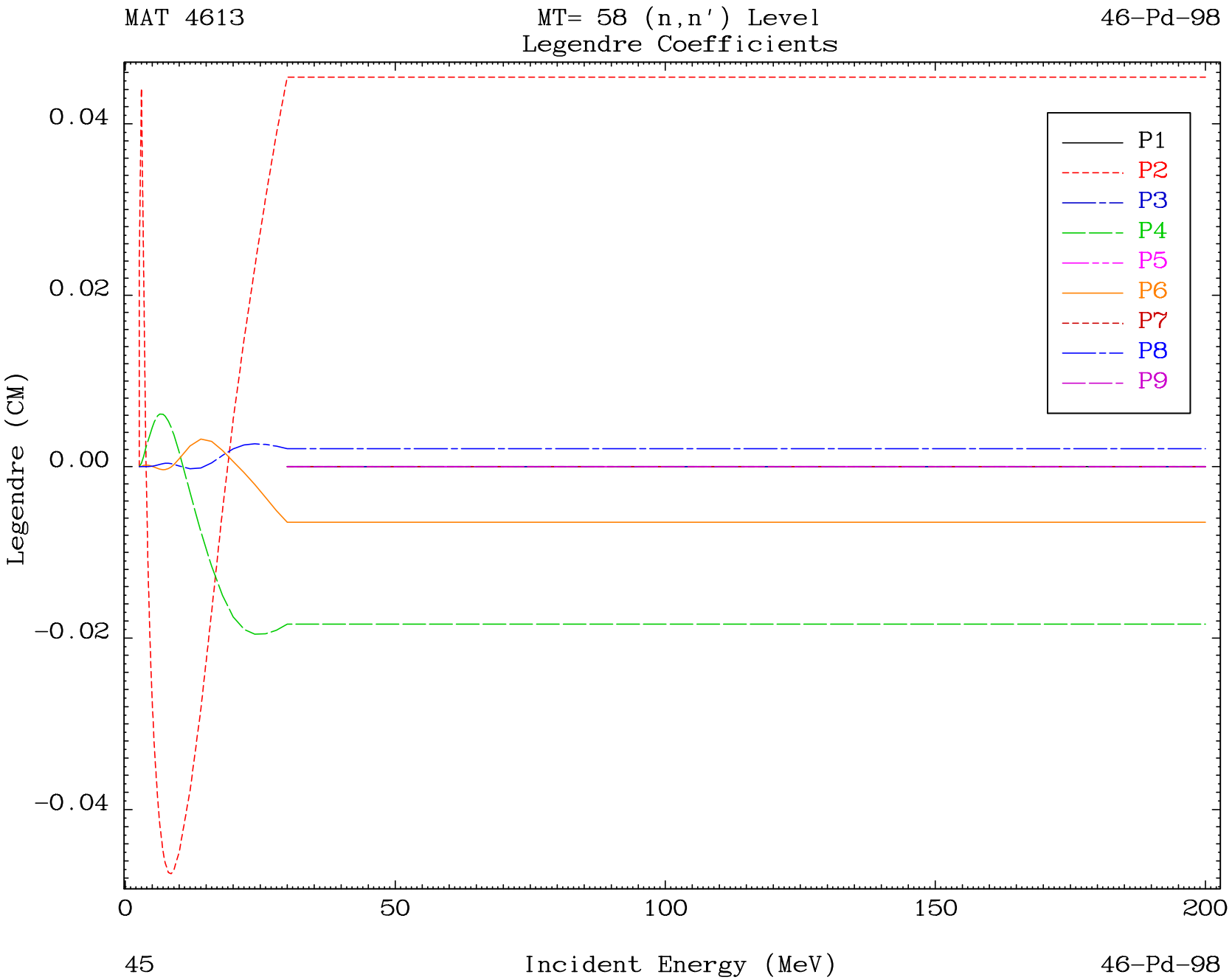

MAT 4613
MT= 56 (n,n') Level
Legendre Coefficients
46-Pd-98
0.0
X10-7
-0.5
-1.0
-1.5
-2.0
Legendre (CM)
50
100
150
200
40
Incident Energy (MeV)
46-Pd-98
P21
P22
P23
P24
P25
P26
P27
P28

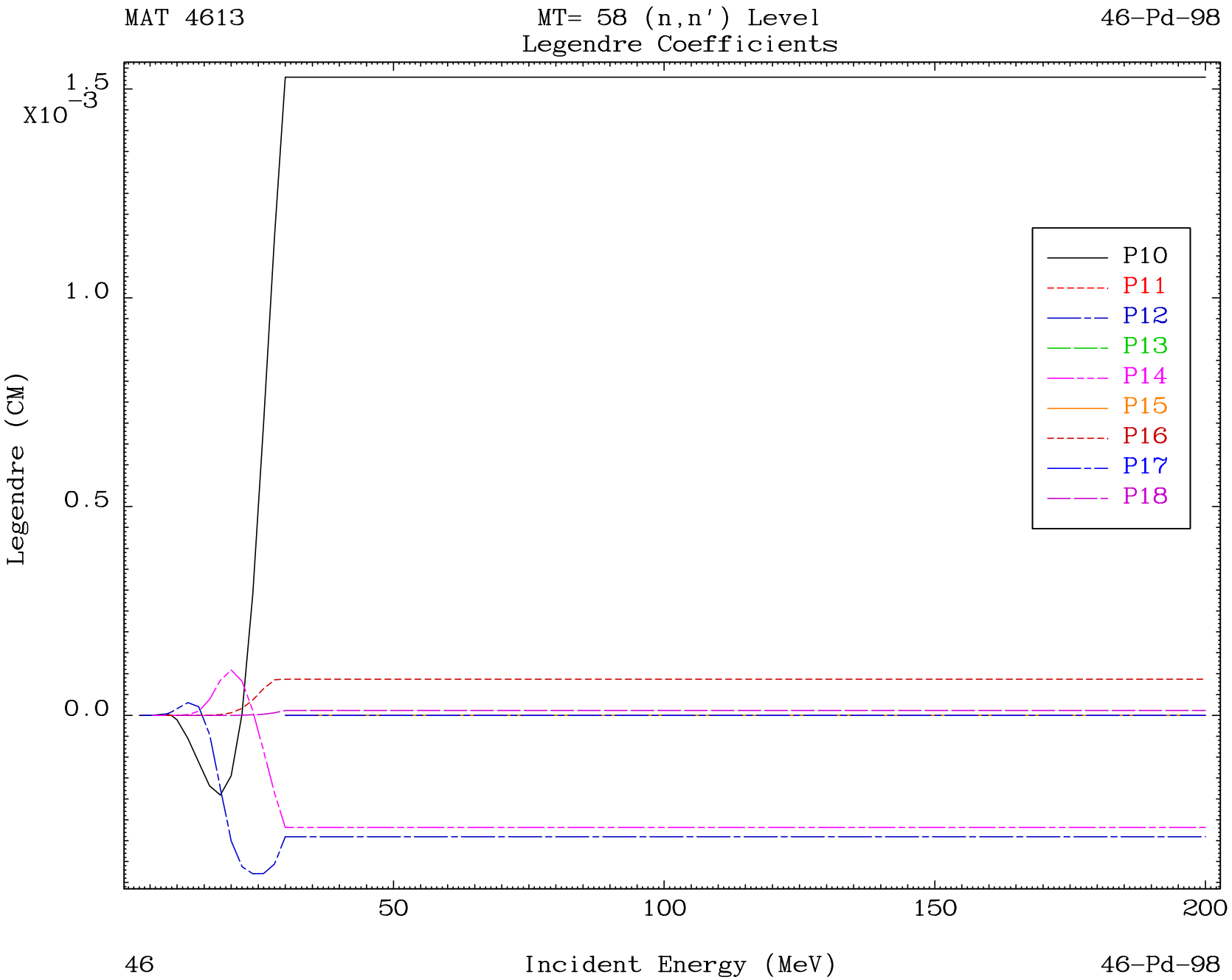

MAT 4613
MT= 57 (n,n') Level
Legendre Coefficients
46-Pd-98
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
41
Incident Energy (MeV)
46-Pd-98

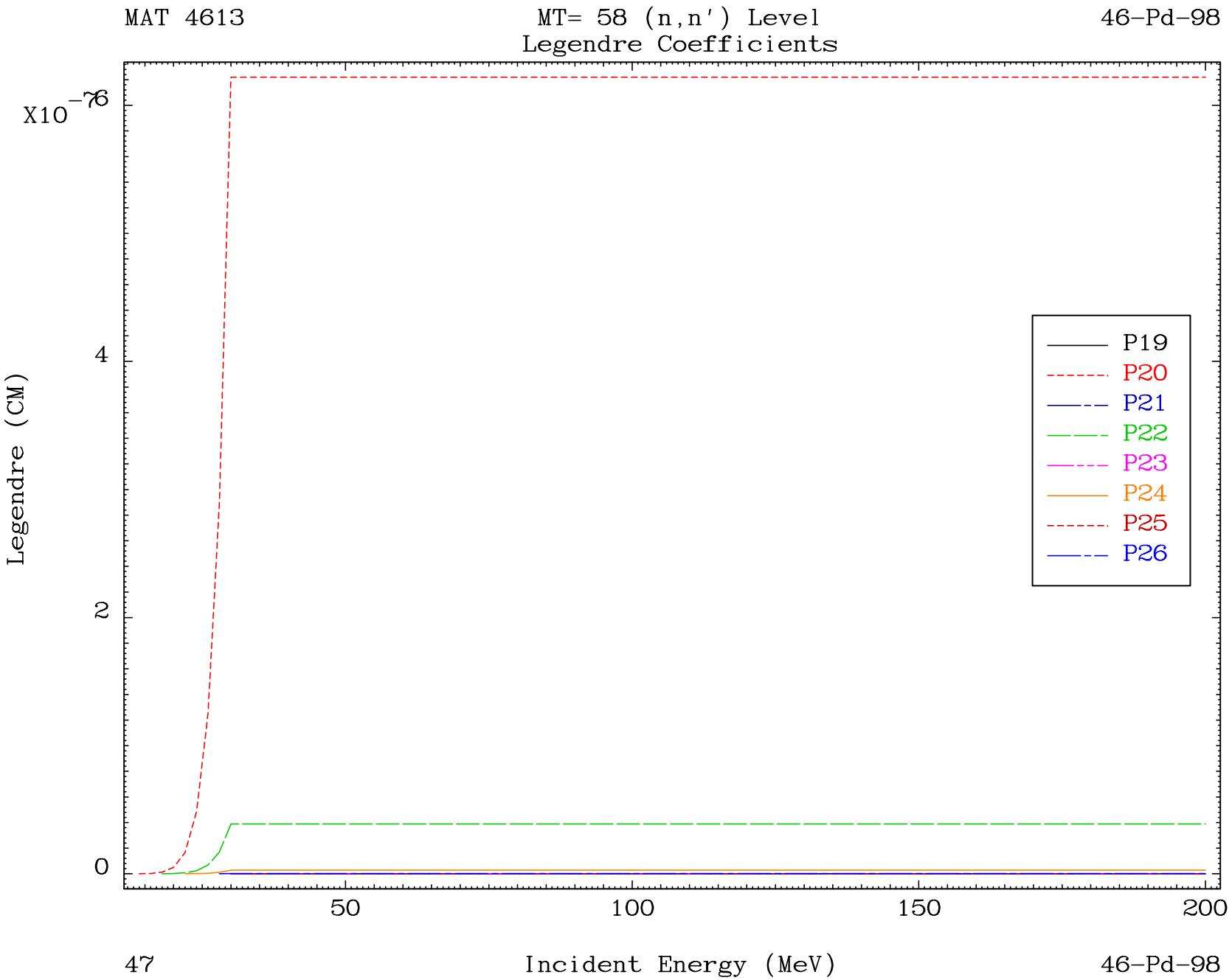

MAT 4613
MT= 57 (n,n') Level
Legendre Coefficients
46-Pd-98
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.025
0.020
0.015
0.010
0.005
0.000
-0.005
Legendre (CM)
50
100
150
200
42
Incident Energy (MeV)
46-Pd-98

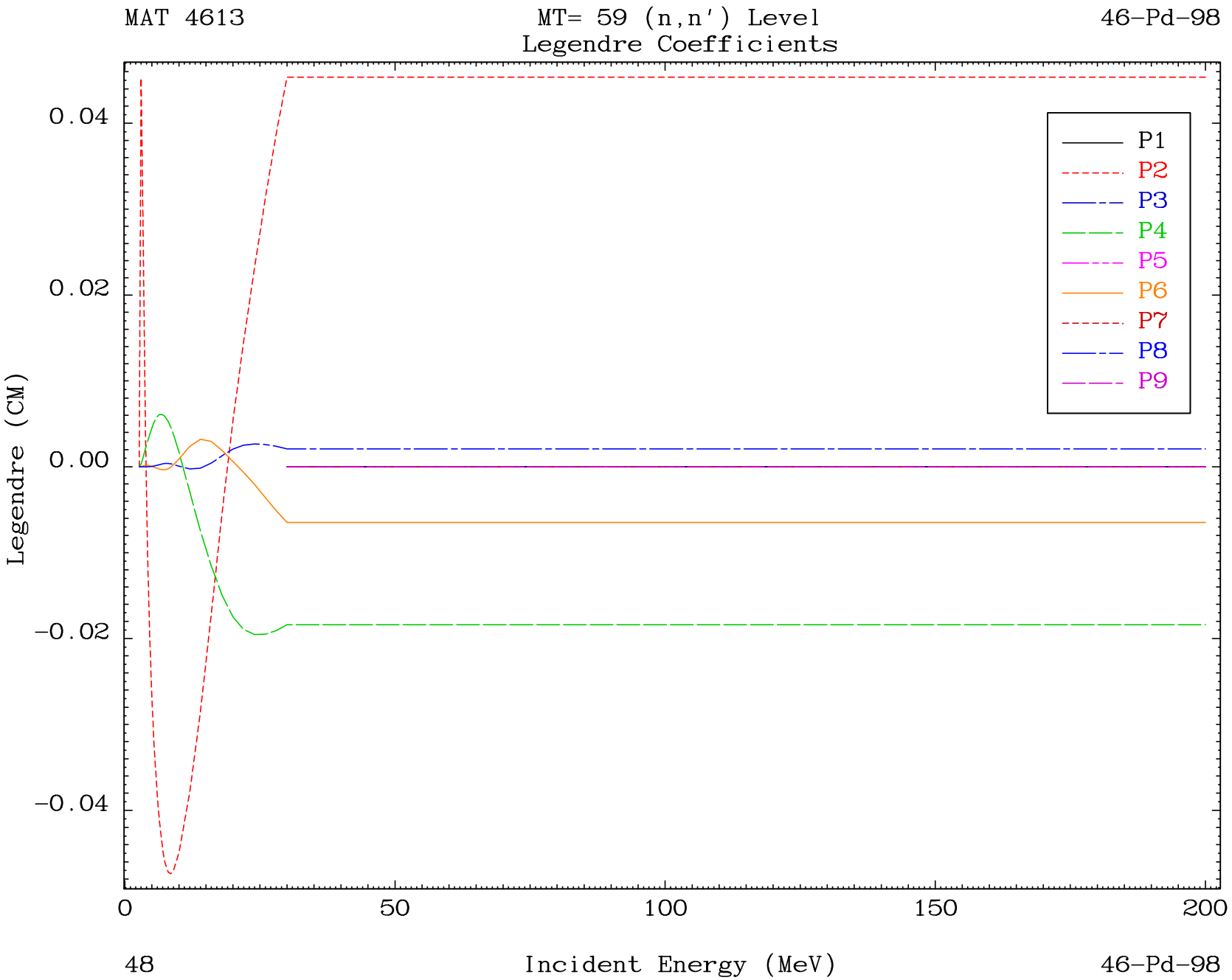

MAT 4613
MT= 57 (n,n') Level
Legendre Coefficients
46-Pd-98
X10^-4
6
4
2
0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
43
Incident Energy (MeV)
46-Pd-98

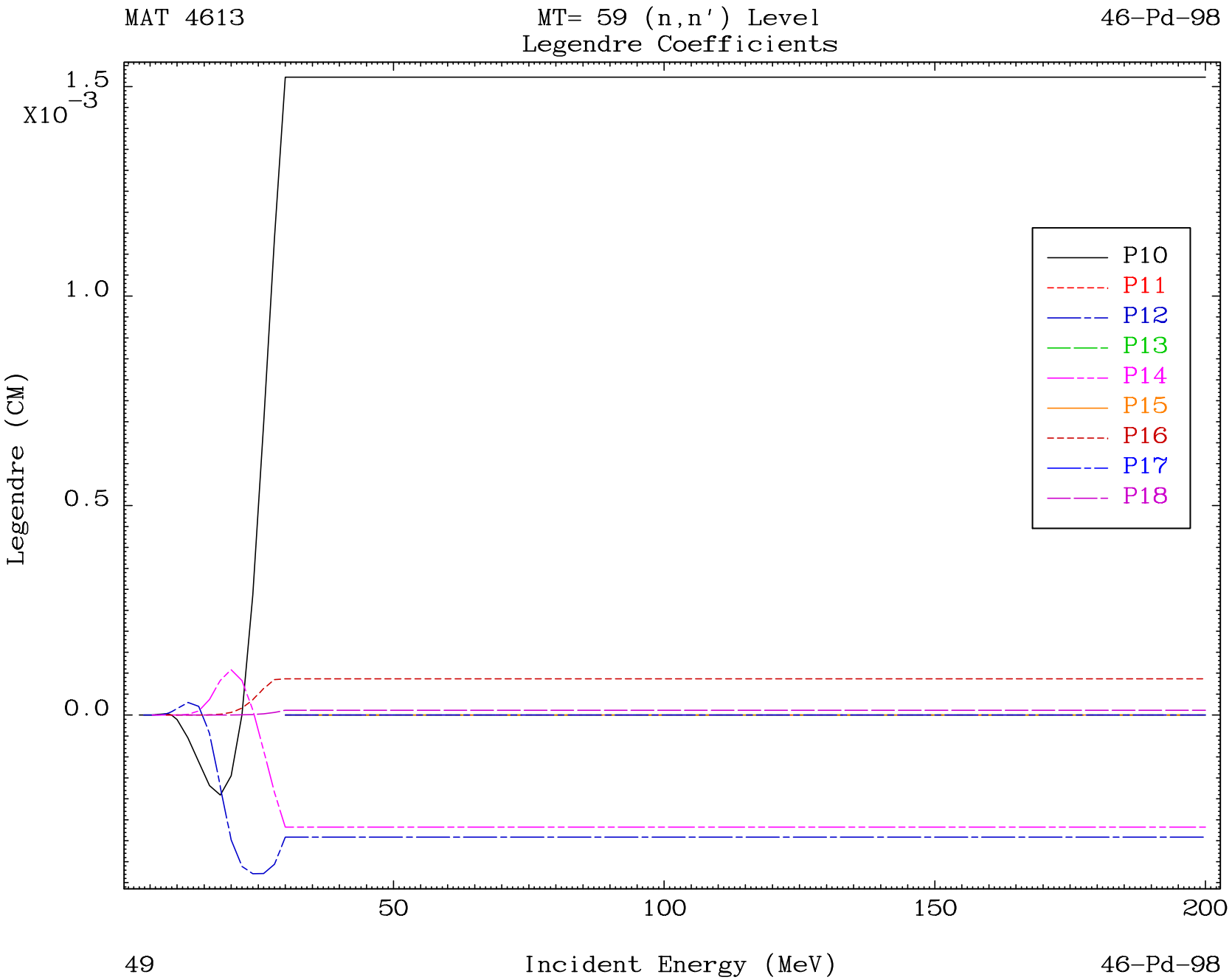

MAT 4613
MT= 57 (n,n') Level
Legendre Coefficients
46-Pd-98
X10-4
4
3
2
1
0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
44
Incident Energy (MeV)
46-Pd-98

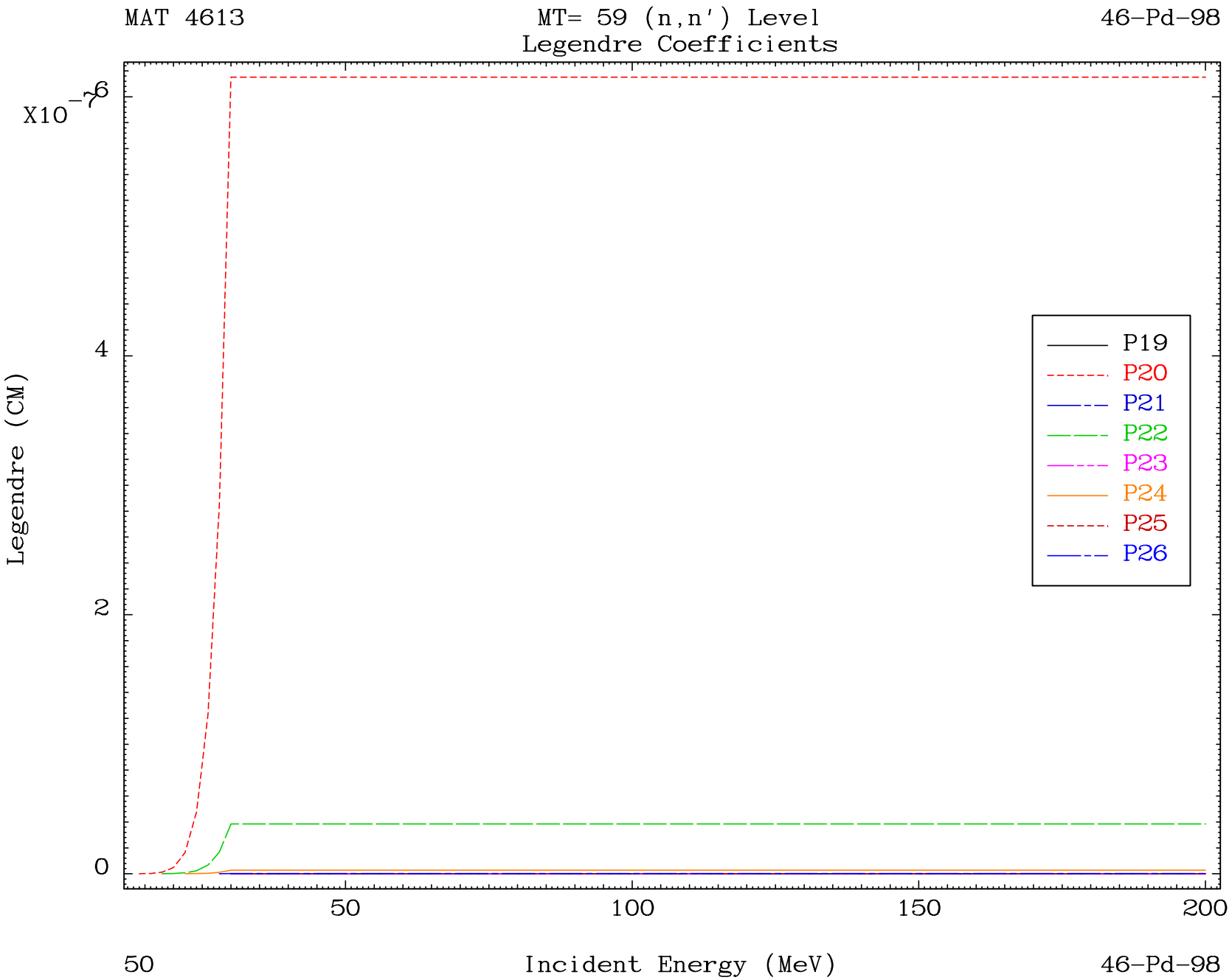

MAT 4613
MT= 58 (n,n') Level
Legendre Coefficients
46-Pd-98
0.04
0.02
0.00
-0.02
-0.04
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
45
Incident Energy (MeV)
46-Pd-98

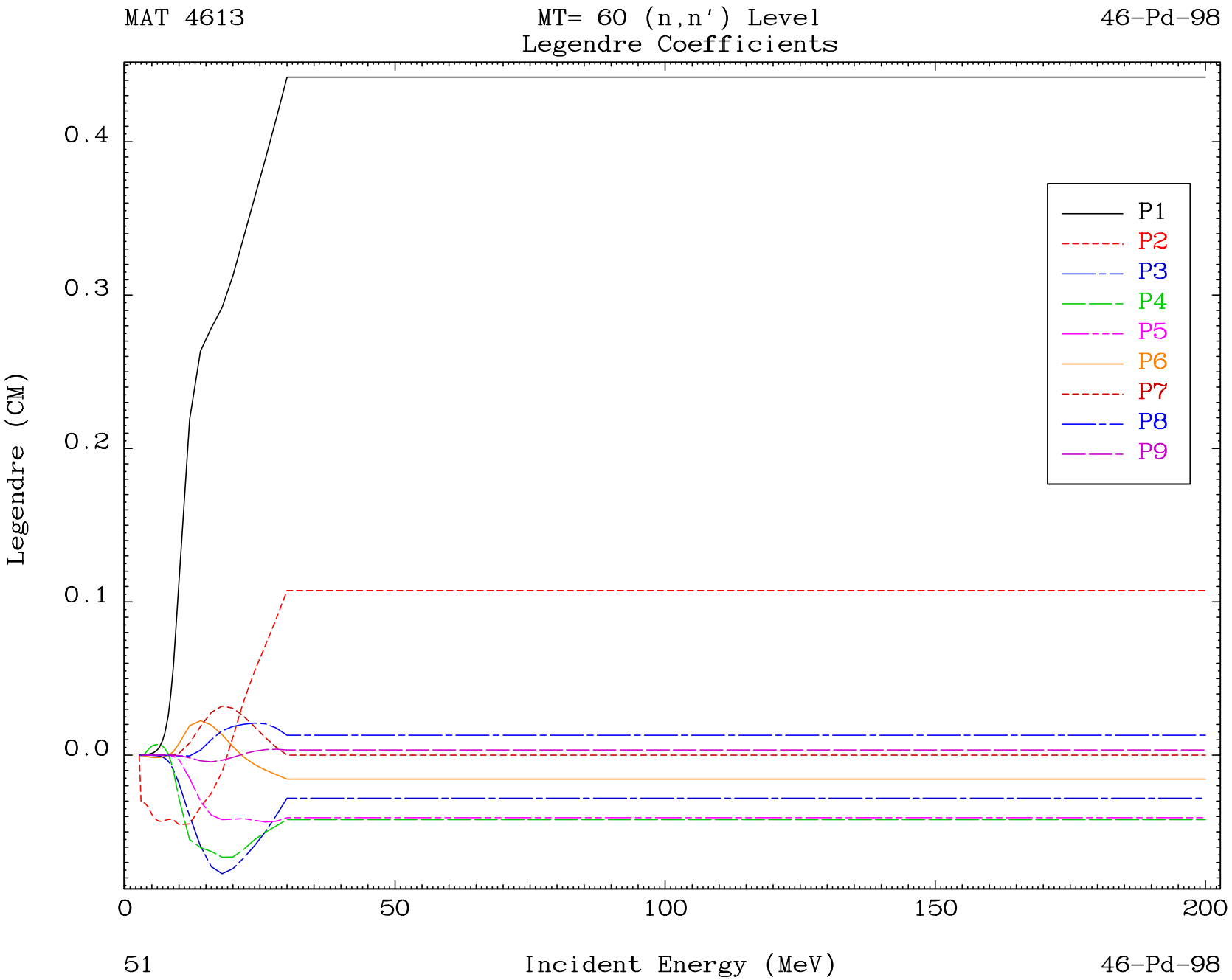

MAT 4613
MT= 58 (n,n') Level
Legendre Coefficients
46-Pd-98
X10-3
1.5
1.0
0.5
0.0
Legendre (CM)
50
100
150
200
46
Incident Energy (MeV)
46-Pd-98
P10
P11
P12
P13
P14
P15
P16
P17
P18

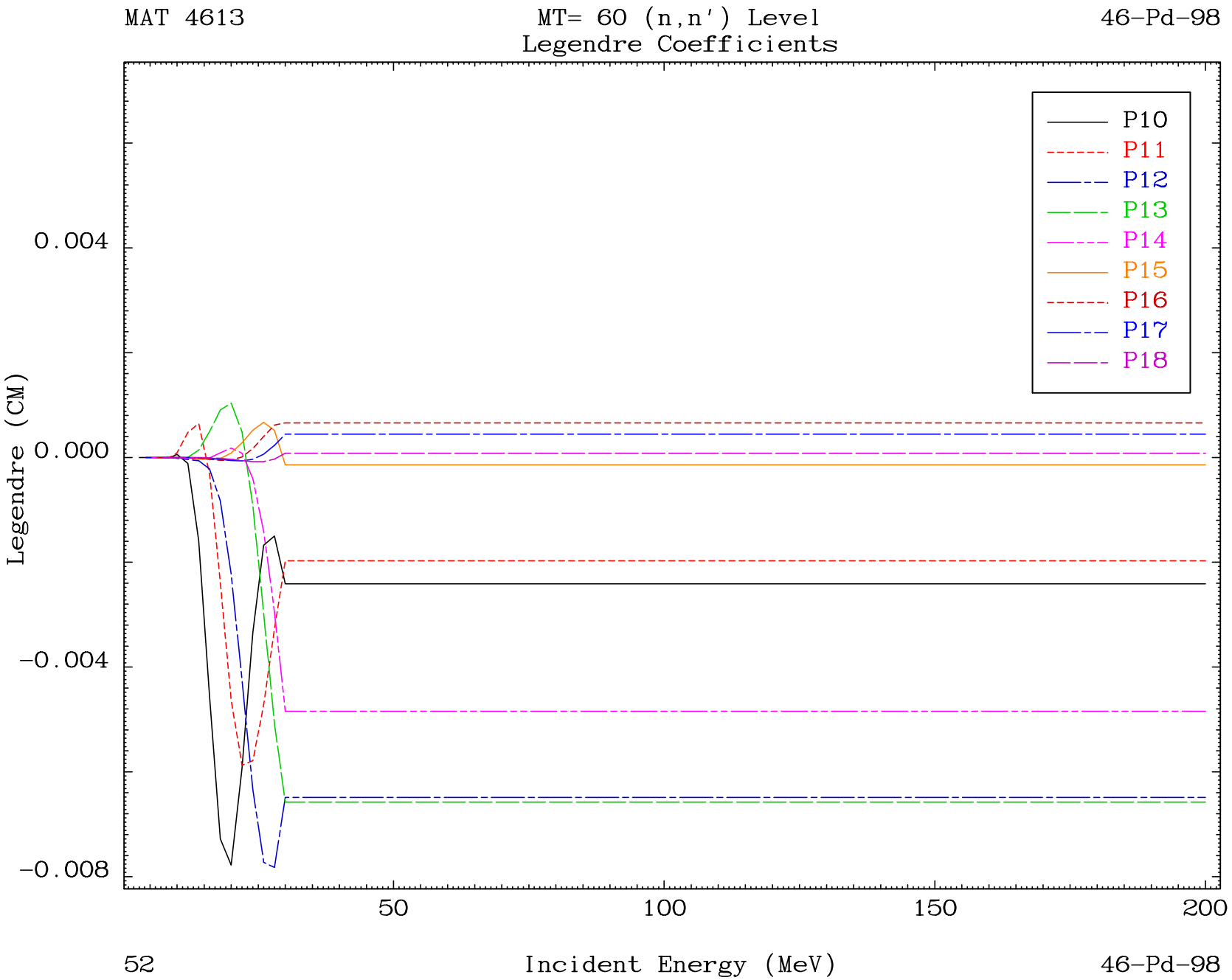

MAT 4613
MT= 58 (n,n') Level
Legendre Coefficients
46-Pd-98
X10^-6
6
4
2
0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
50
100
150
200
47
Incident Energy (MeV)
46-Pd-98

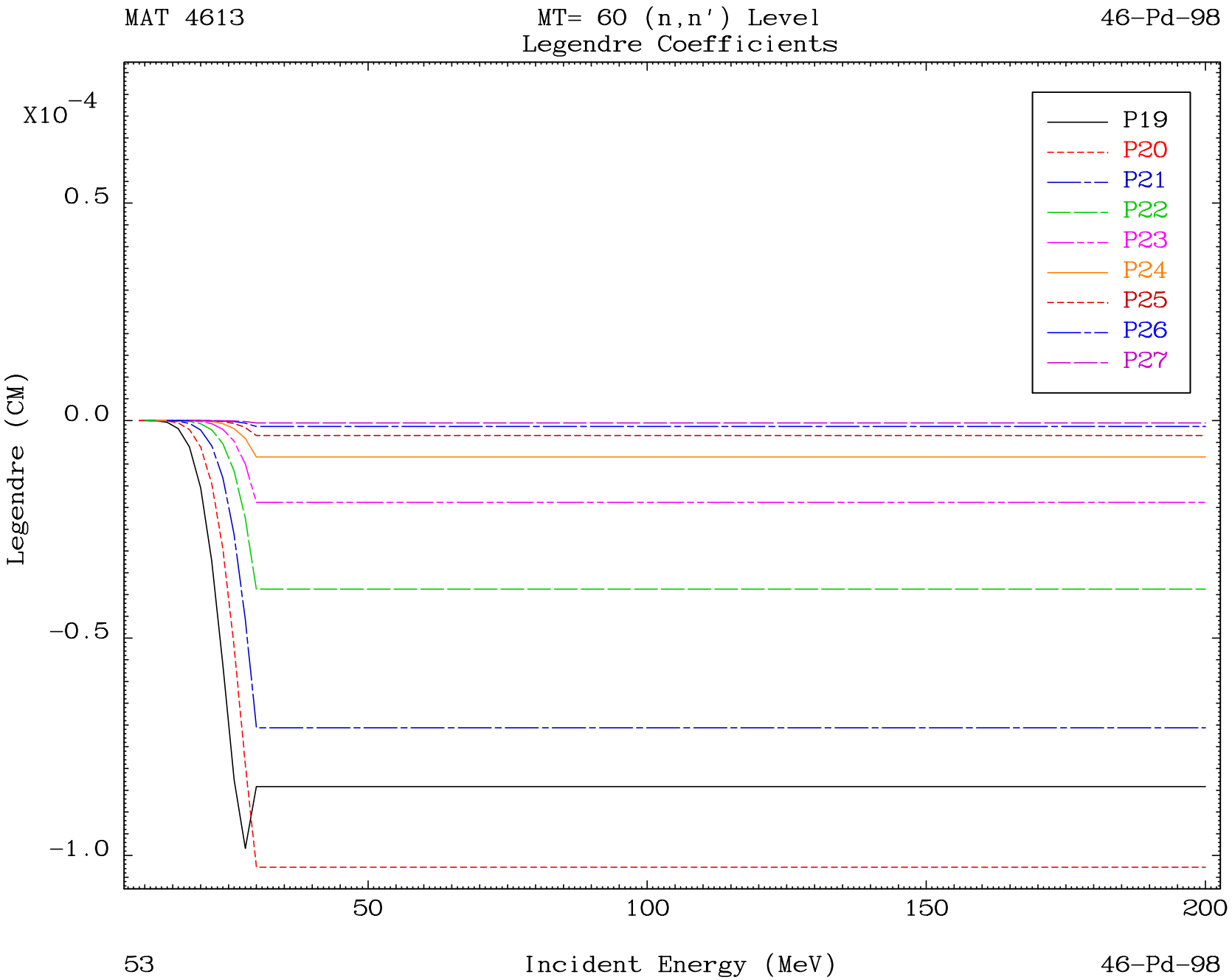

MAT 4613
MT= 59 (n,n') Level
Legendre Coefficients
46-Pd-98
0.04
0.02
0.00
-0.02
-0.04
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
48
Incident Energy (MeV)
46-Pd-98

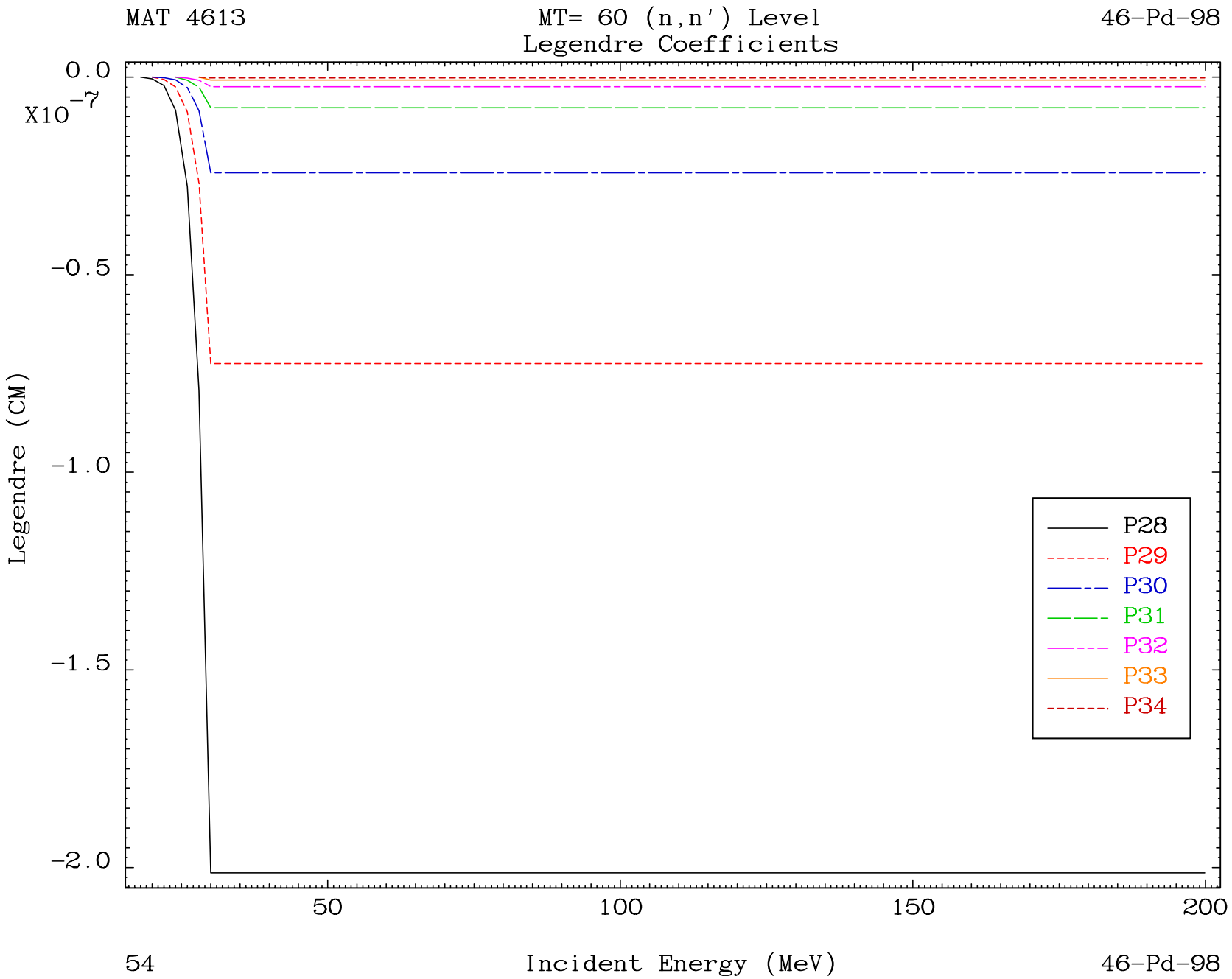

MAT 4613
MT= 59 (n,n') Level
Legendre Coefficients
46-Pd-98
X10 -3
1.5
1.0
0.5
0.0
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
50
100
150
200
49
Incident Energy (MeV)
46-Pd-98

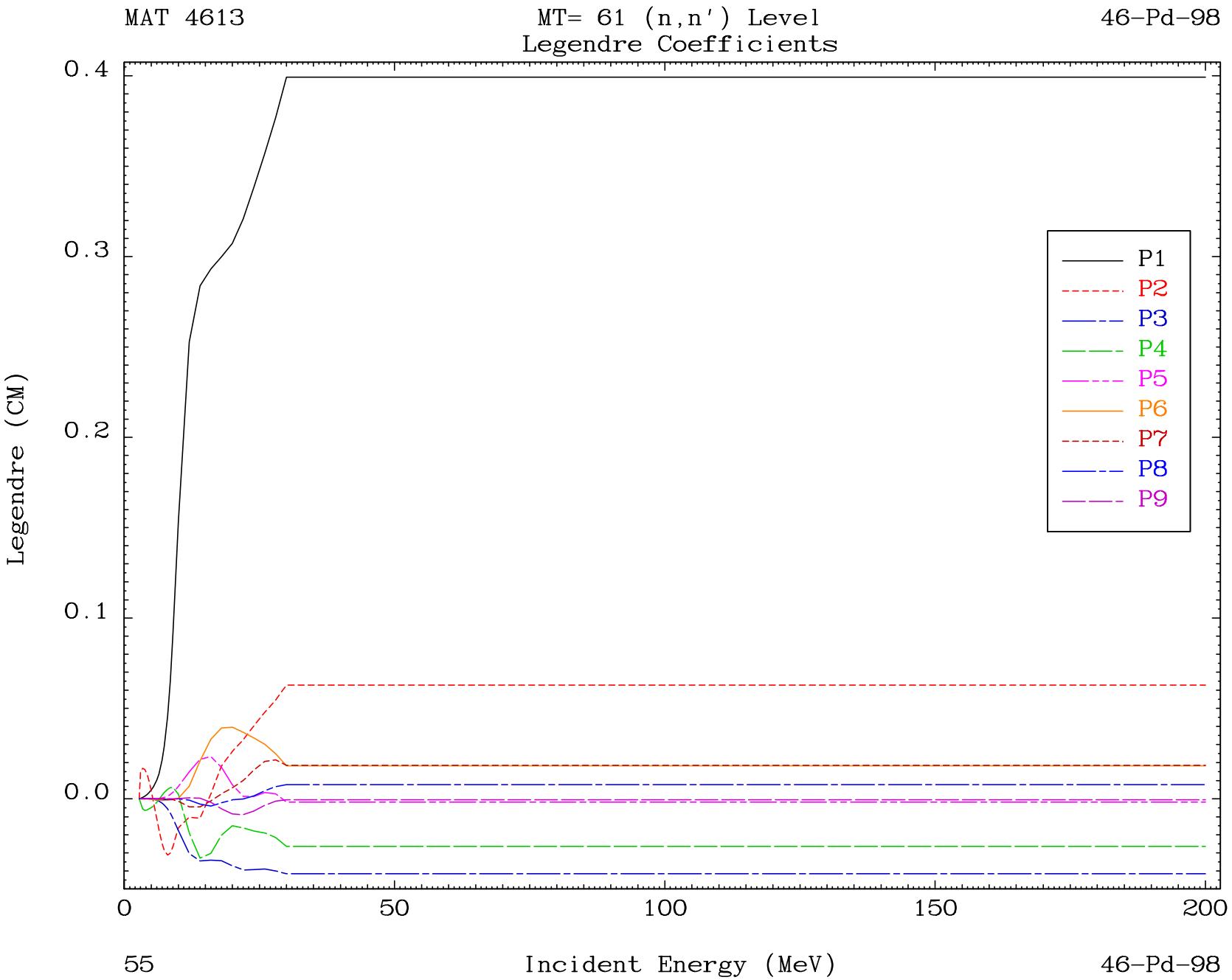

MAT 4613
MT= 59 (n,n') Level
Legendre Coefficients
46-Pd-98
X10-6
6
4
2
0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
50
100
150
200
50
Incident Energy (MeV)
46-Pd-98

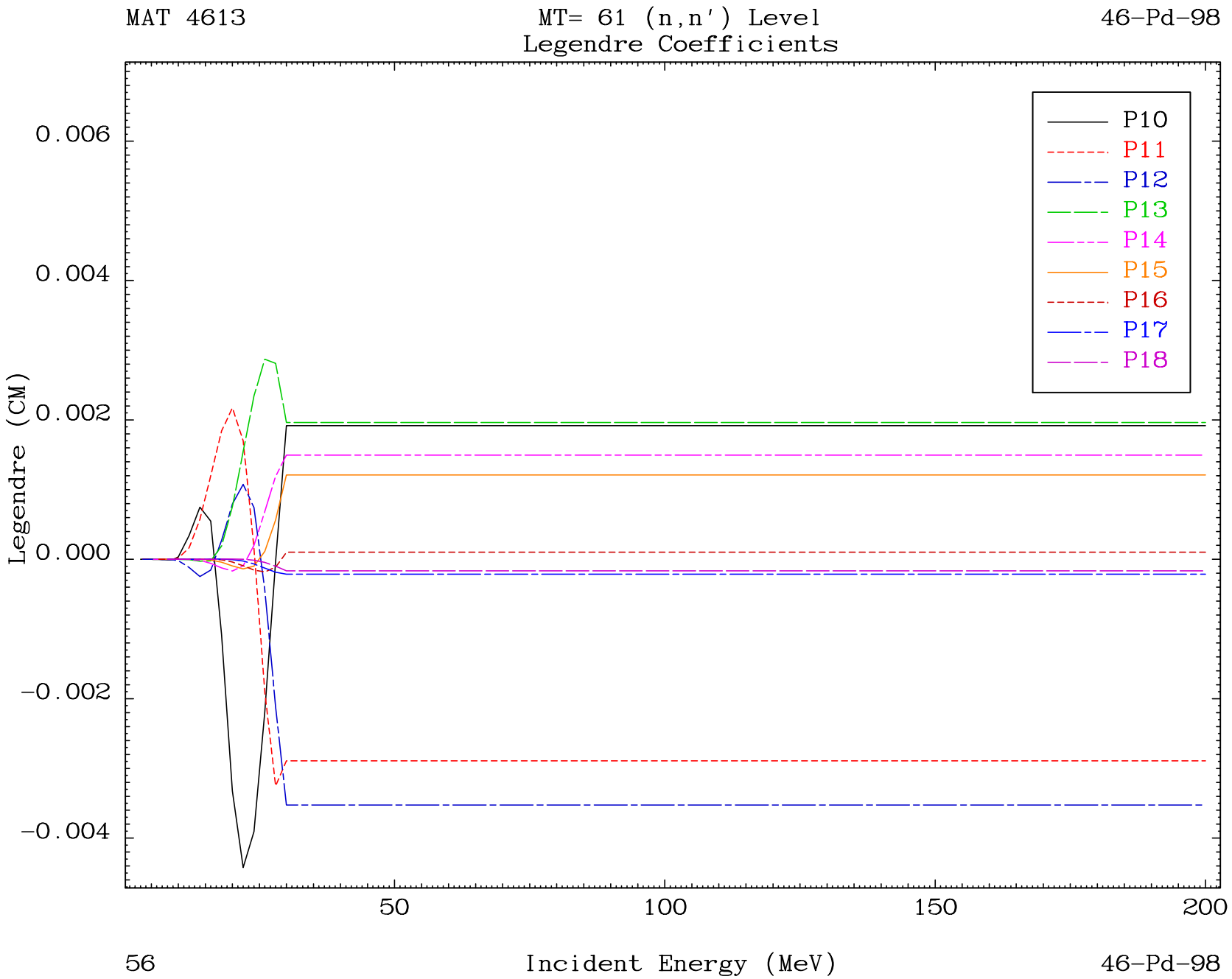

MAT 4613
MT= 60 (n,n') Level
Legendre Coefficients
46-Pd-98
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
Incident Energy (MeV)
51
46-Pd-98
P1
P2
P3
P4
P5
P6
P7
P8
P9

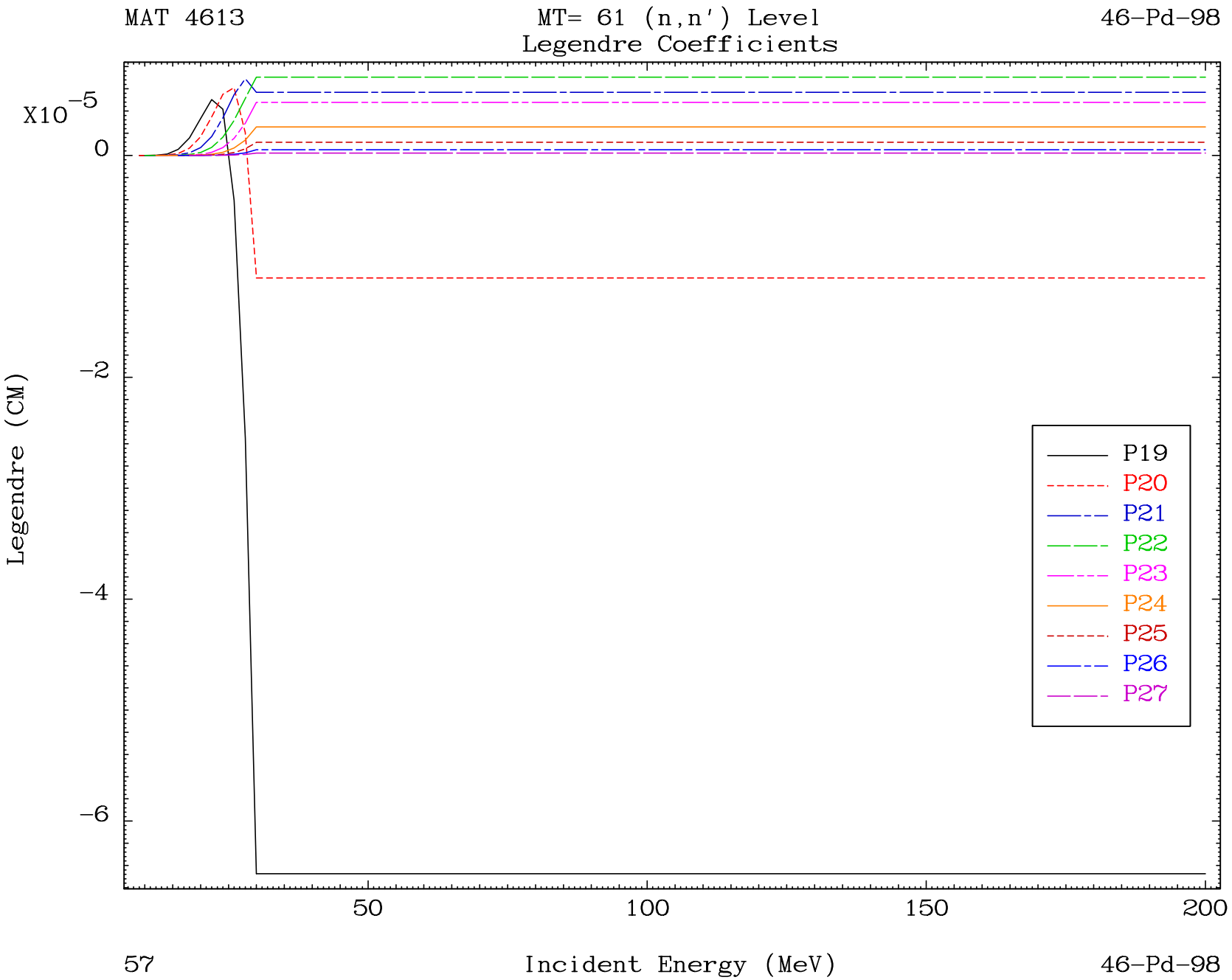

MAT 4613
MT= 60 (n,n') Level
Legendre Coefficients
46-Pd-98
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.004
0.000
-0.004
-0.008
Legendre (CM)
50
100
150
200
52
Incident Energy (MeV)
46-Pd-98

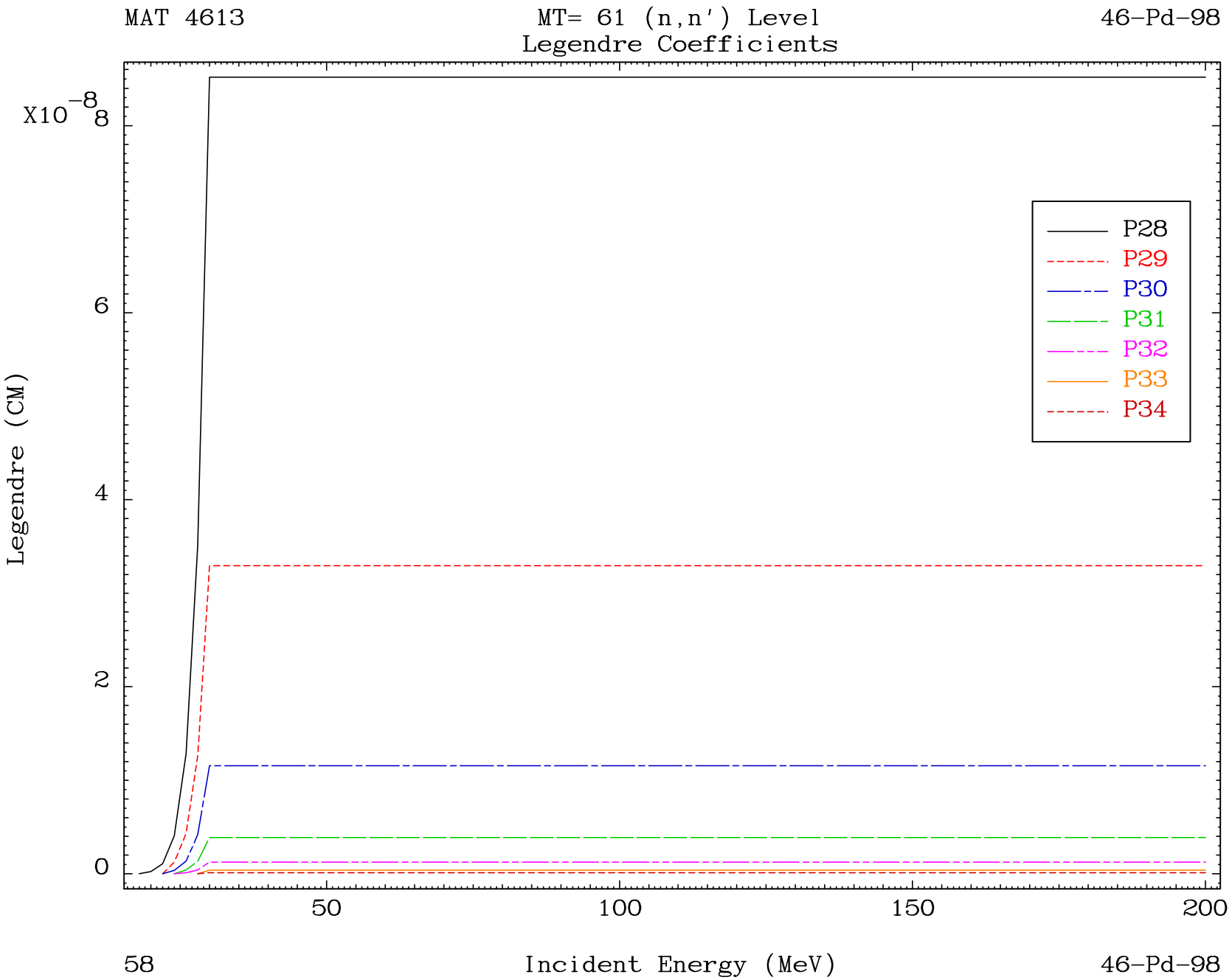

MAT 4613
MT= 60 (n,n') Level
Legendre Coefficients
46-Pd-98
X10^-4
0.5
0.0
-0.5
-1.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
53
Incident Energy (MeV)
46-Pd-98

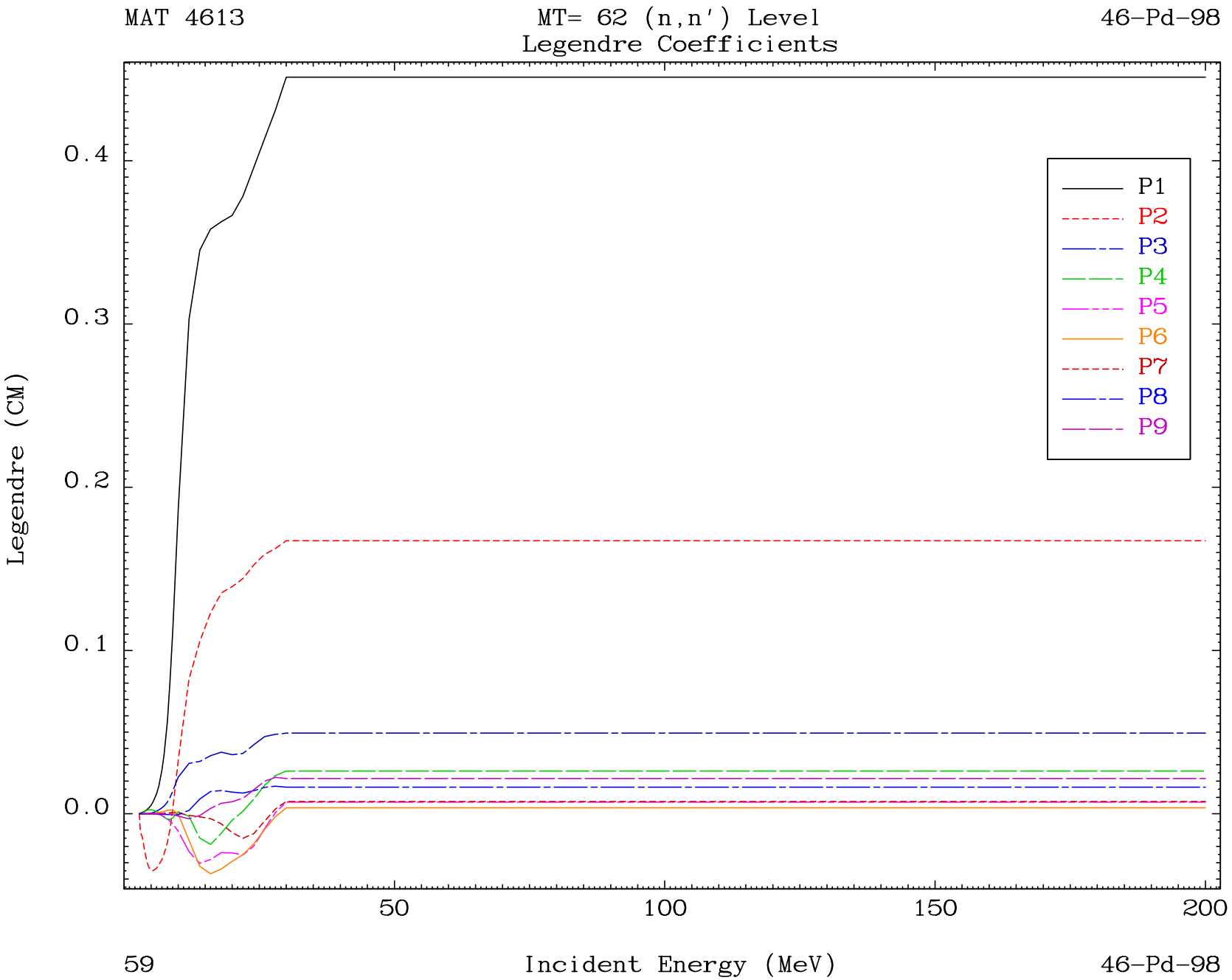

MAT 4613
MT= 60 (n,n') Level
Legendre Coefficients
46-Pd-98
0.0
X10-7
-0.5
-1.0
-1.5
-2.0
Legendre (CM)
50
100
150
200
54
Incident Energy (MeV)
46-Pd-98
P28
P29
P30
P31
P32
P33
P34

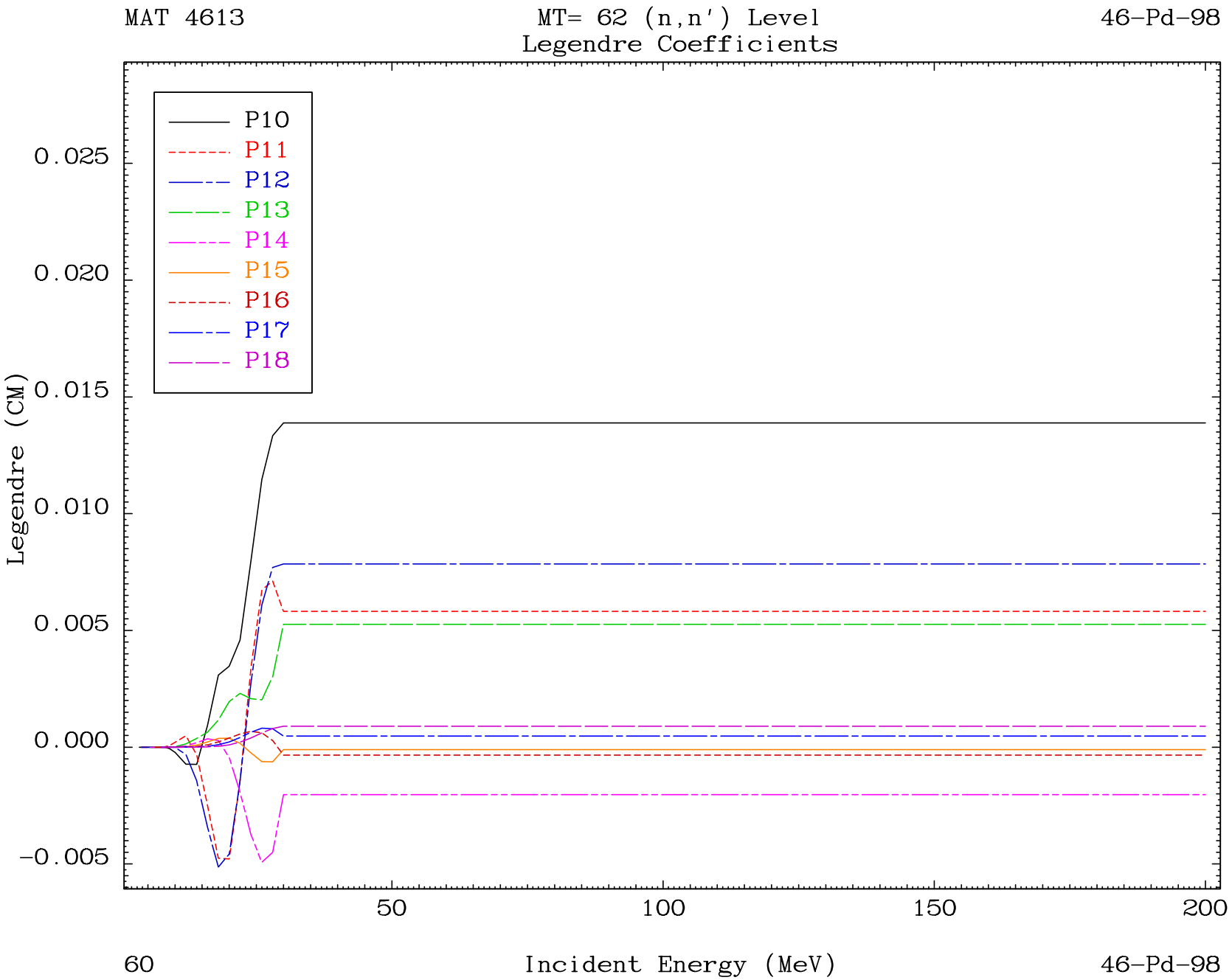

MAT 4613
MT= 61 (n,n') Level
Legendre Coefficients
46-Pd-98
0.4
0.3
0.2
0.1
0.0
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
55
Incident Energy (MeV)
46-Pd-98

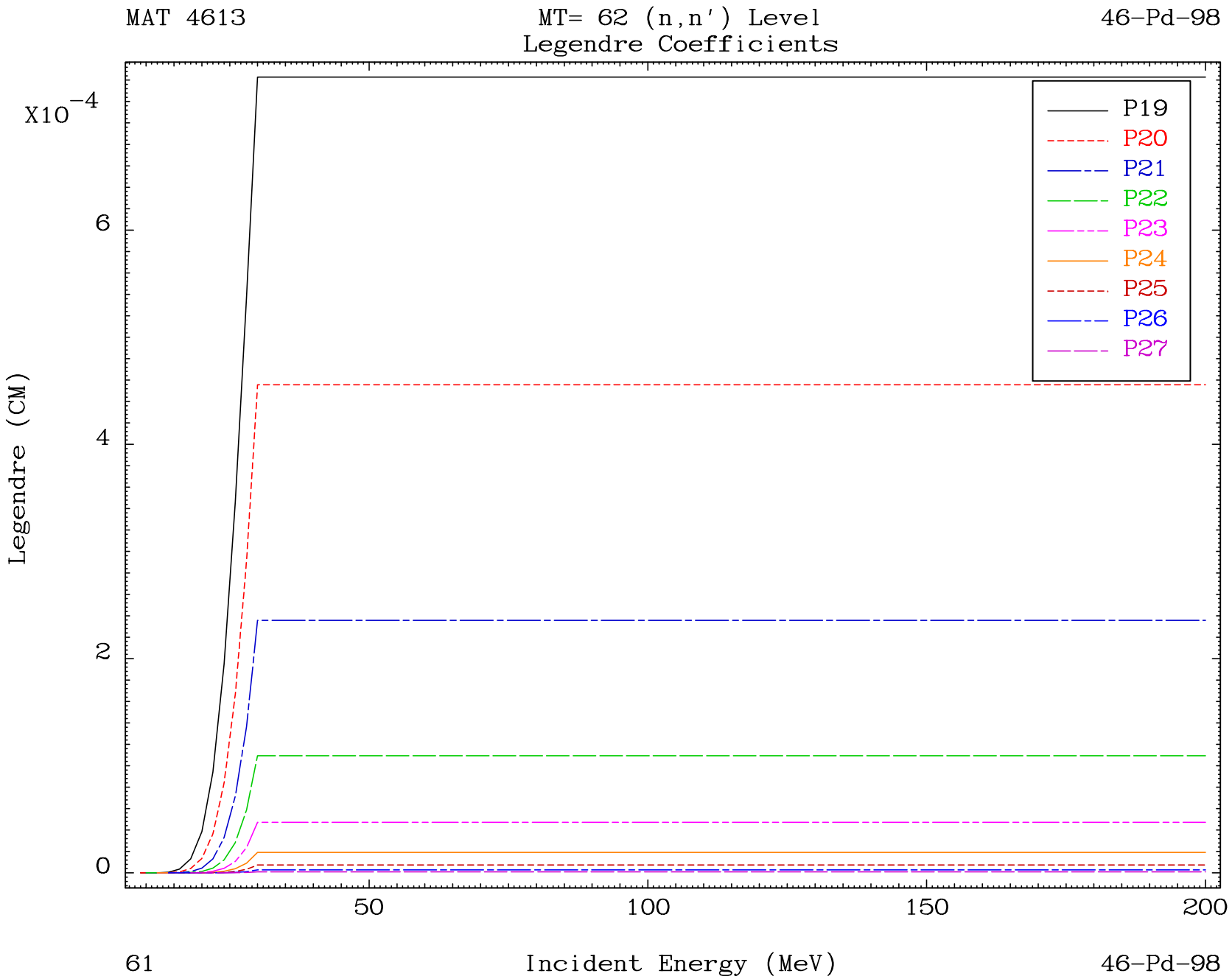

MAT 4613
MT= 61 (n,n') Level
Legendre Coefficients
46-Pd-98
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.006
0.004
0.002
0.000
-0.002
-0.004
Legendre (CM)
50
100
150
200
56
Incident Energy (MeV)
46-Pd-98

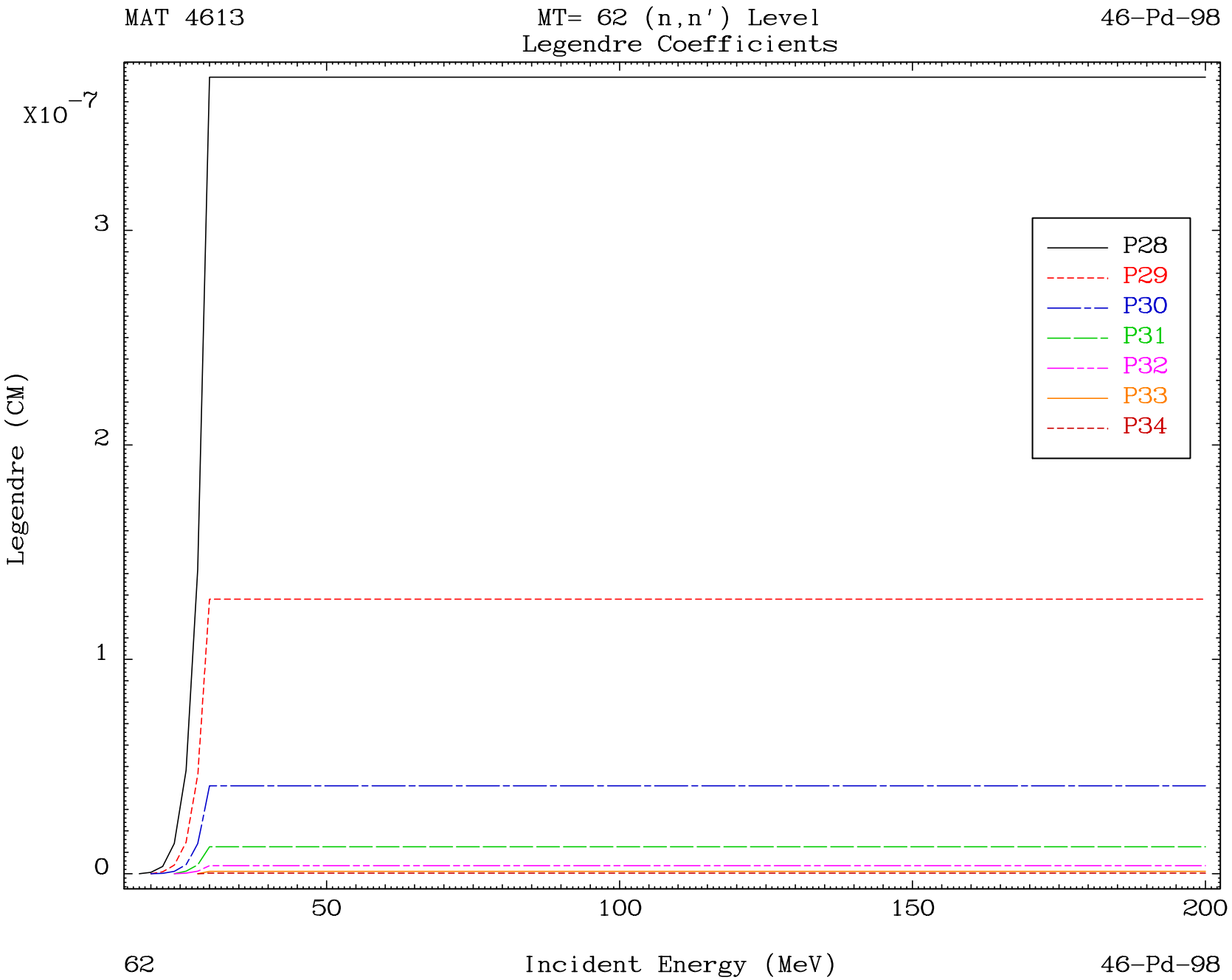

MAT 4613
MT= 61 (n,n') Level
Legendre Coefficients
46-Pd-98
X10^-5
0
-2
-4
-6
Legendre (CM)
50
100
150
200
57
Incident Energy (MeV)
46-Pd-98
P19
P20
P21
P22
P23
P24
P25
P26
P27

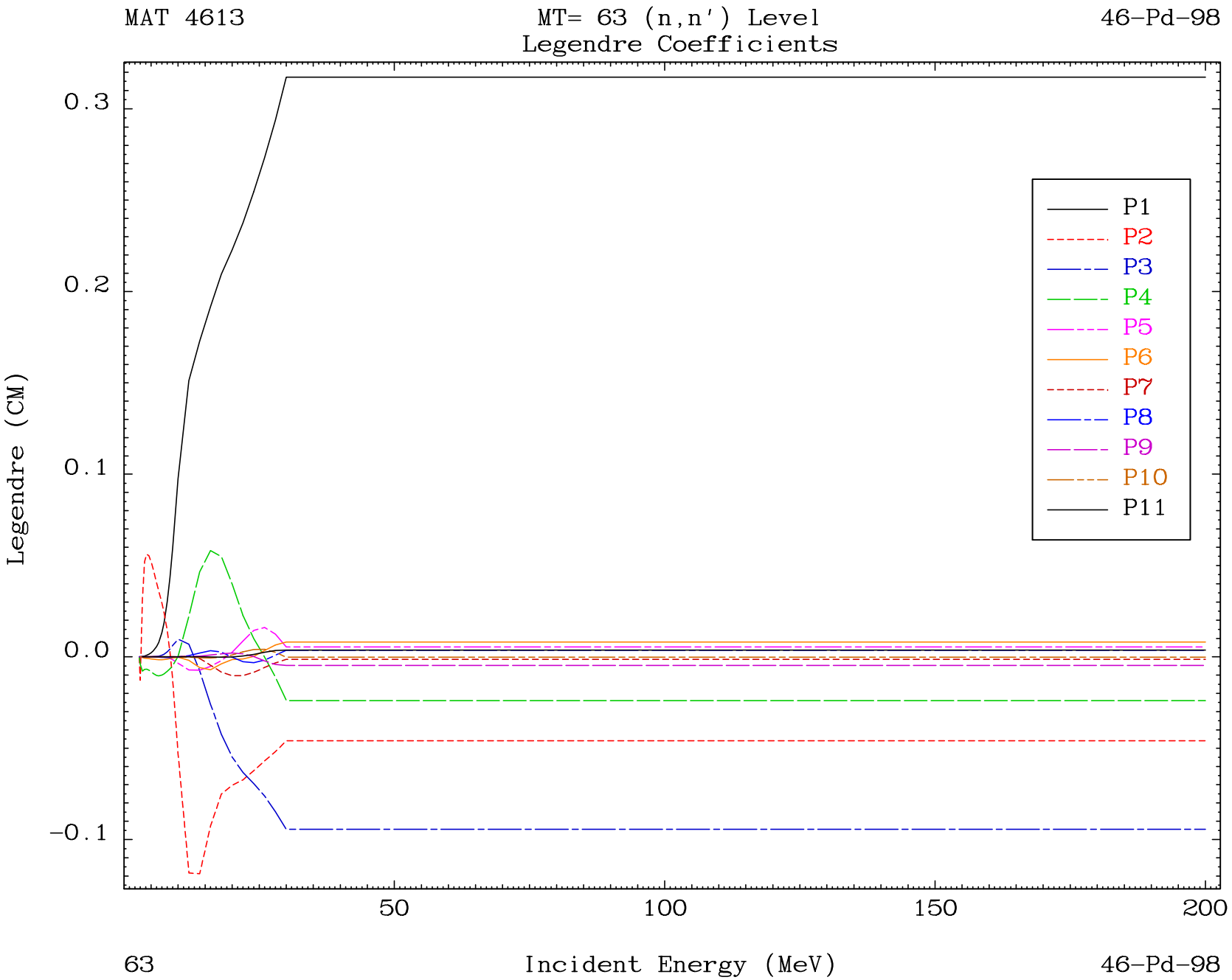

MAT 4613
MT= 61 (n,n') Level
Legendre Coefficients
46-Pd-98
X10 -8
8
6
4
2
0
Legendre (CM)
50
100
150
200
58
Incident Energy (MeV)
46-Pd-98
P28
P29
P30
P31
P32
P33
P34

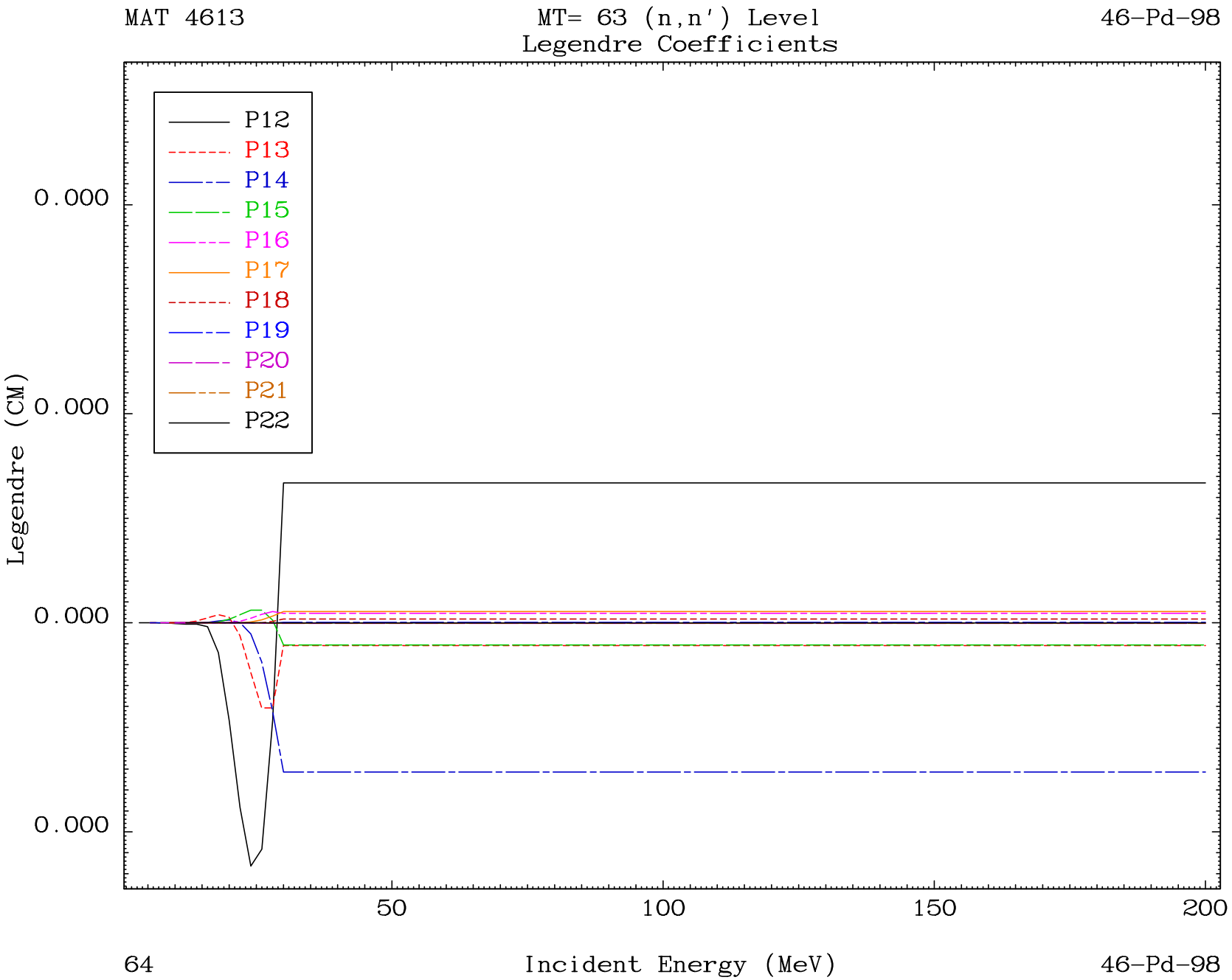

MAT 4613
MT= 62 (n,n') Level
Legendre Coefficients
46-Pd-98
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
59
Incident Energy (MeV)
46-Pd-98

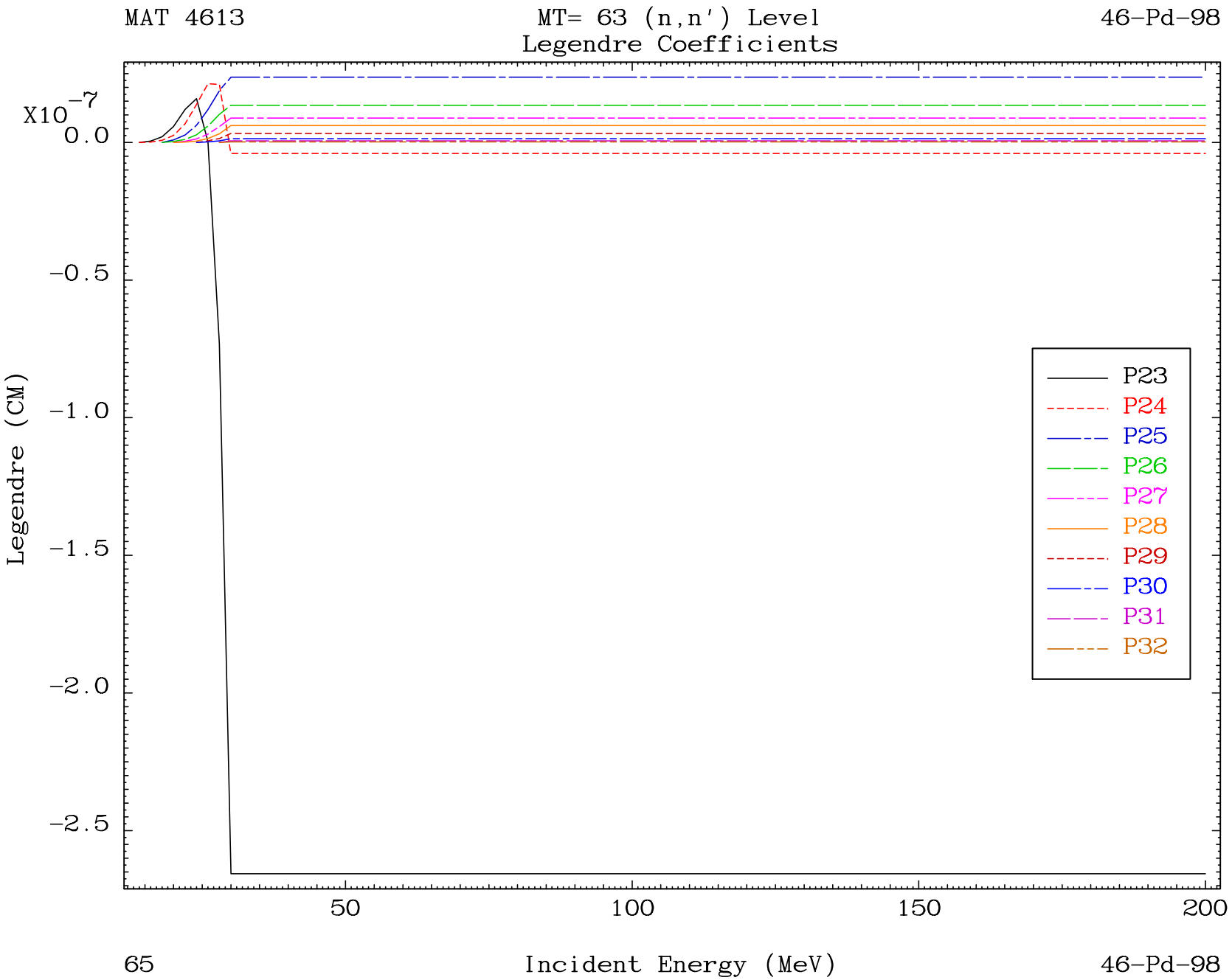

MAT 4613
MT= 62 (n,n') Level
Legendre Coefficients
46-Pd-98
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.025
0.020
0.015
0.010
0.005
0.000
-0.005
Legendre (CM)
50
100
150
200
60
Incident Energy (MeV)
46-Pd-98

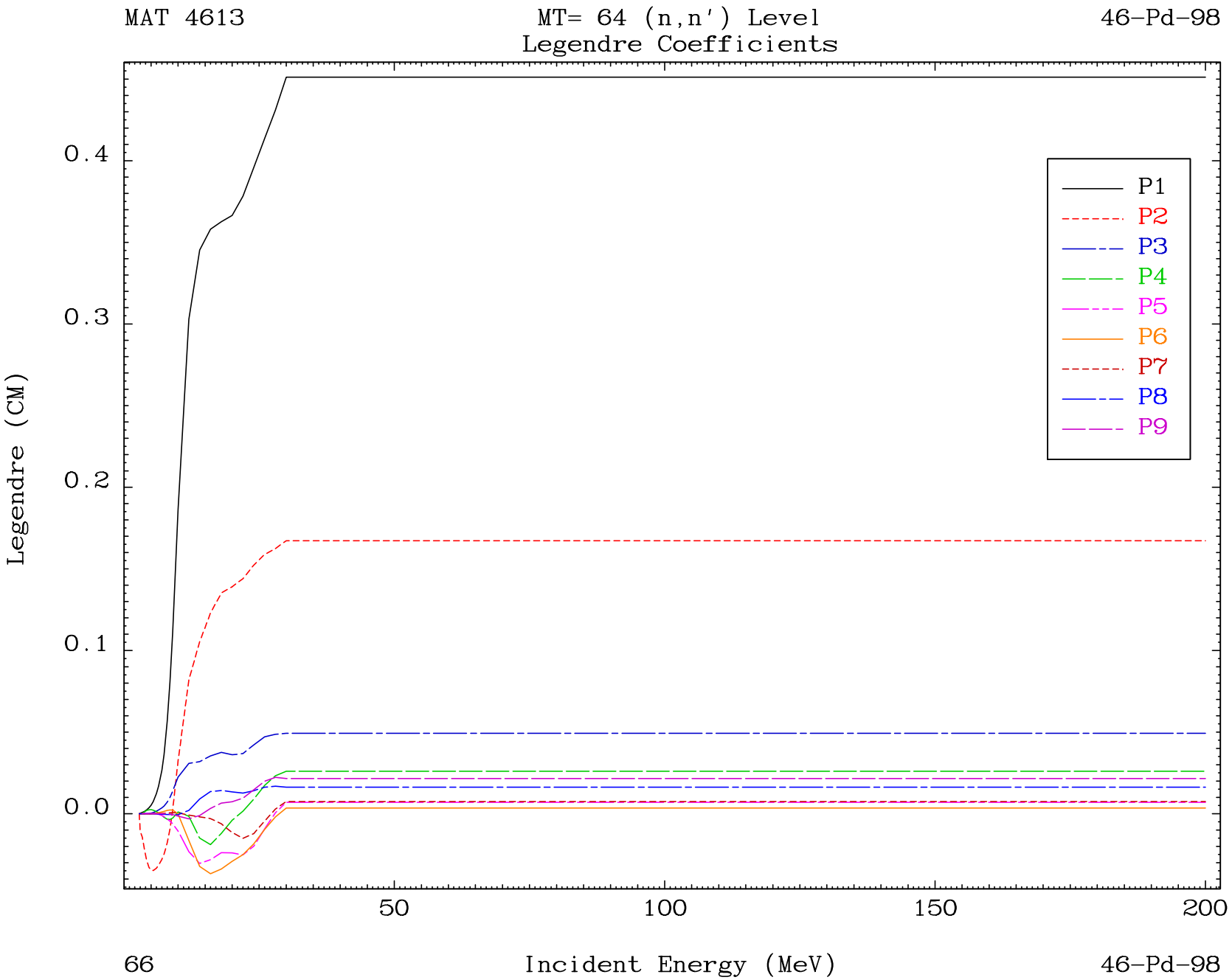

MAT 4613
MT= 62 (n,n') Level
Legendre Coefficients
46-Pd-98
X10^-4
6
4
2
0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
61
Incident Energy (MeV)
46-Pd-98

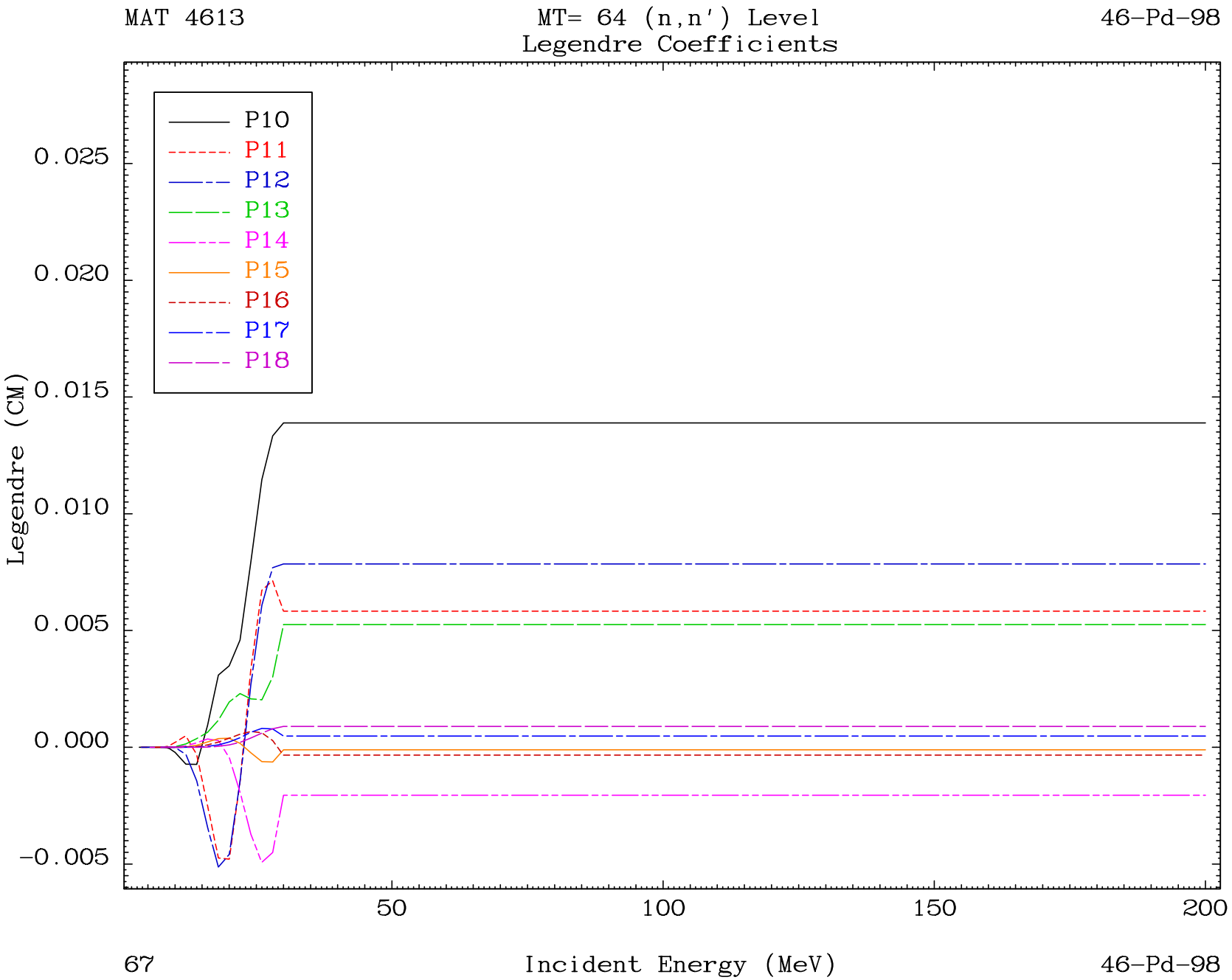

MAT 4613
MT= 62 (n,n') Level
Legendre Coefficients
46-Pd-98
X10-7
3
2
1
0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
62
Incident Energy (MeV)
46-Pd-98

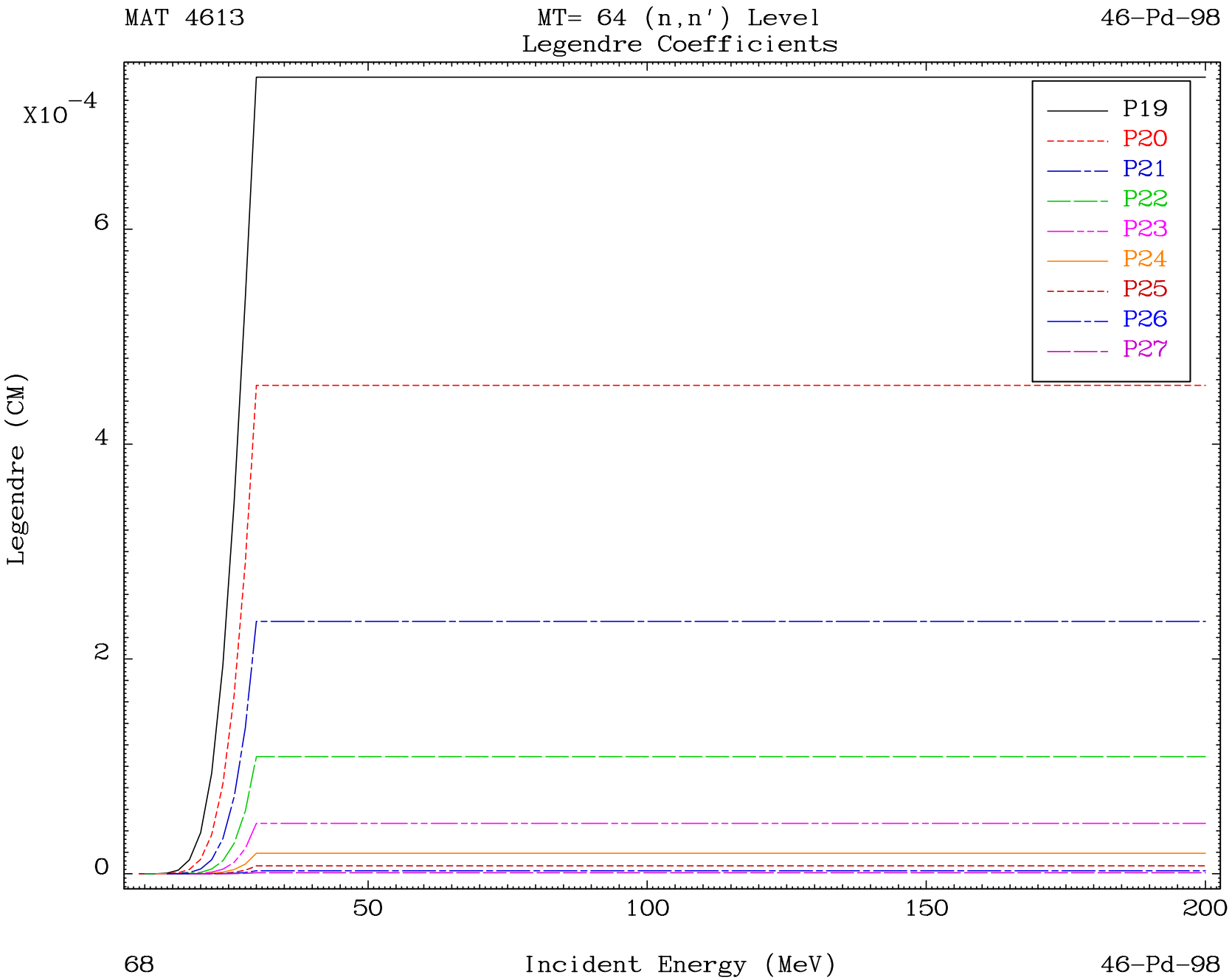

MAT 4613
MT= 63 (n,n') Level
Legendre Coefficients
46-Pd-98
0.3
0.2
0.1
0.0
-0.1
Legendre (CM)
50
100
150
200
63
Incident Energy (MeV)
46-Pd-98
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11

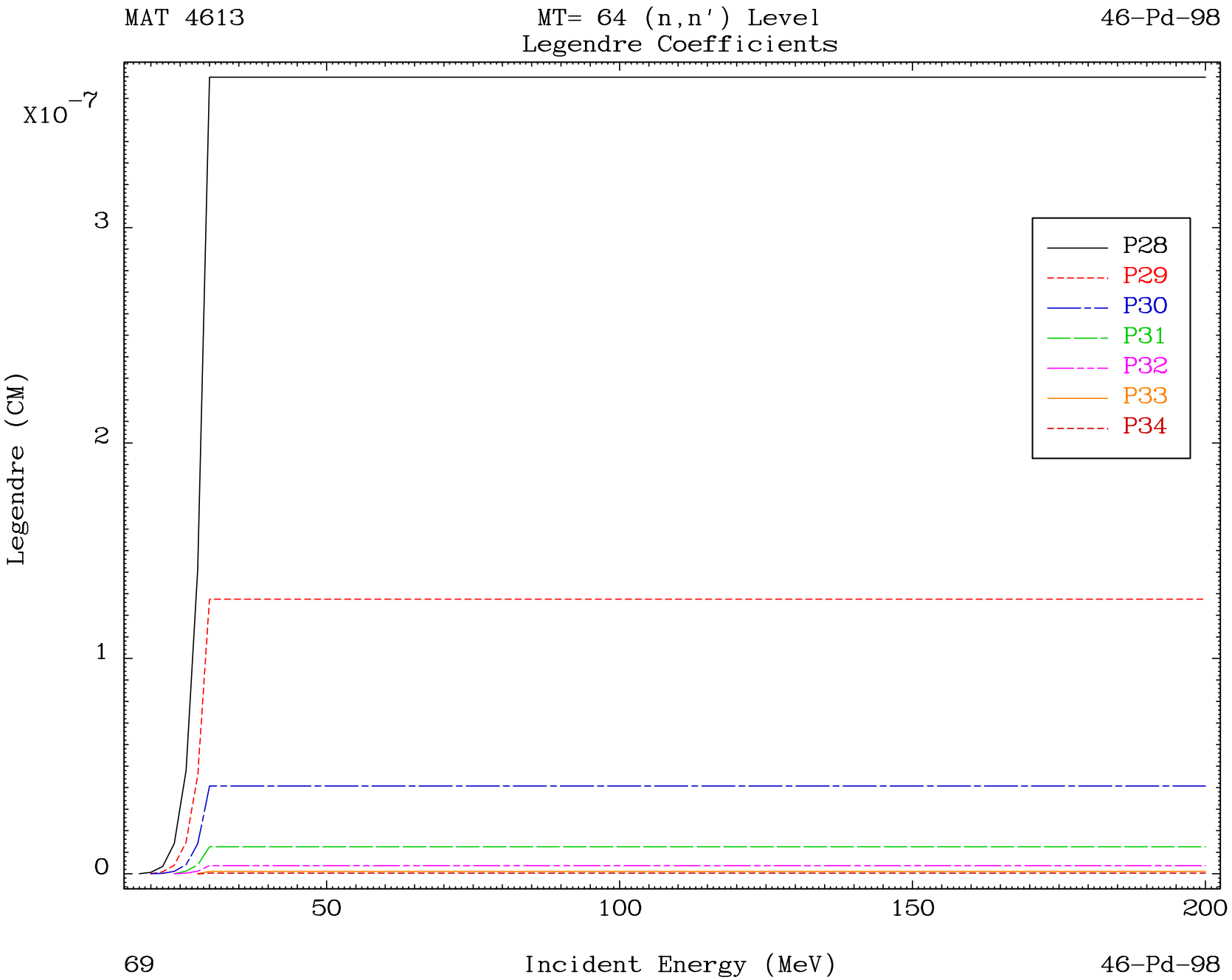

MAT 4613
MT= 63 (n,n') Level
Legendre Coefficients
46-Pd-98
P12
P13
P14
P15
P16
P17
P18
P19
P20
P21
P22
0.000
0.000
0.000
0.000
Legendre (CM)
50
100
150
200
64
Incident Energy (MeV)
46-Pd-98

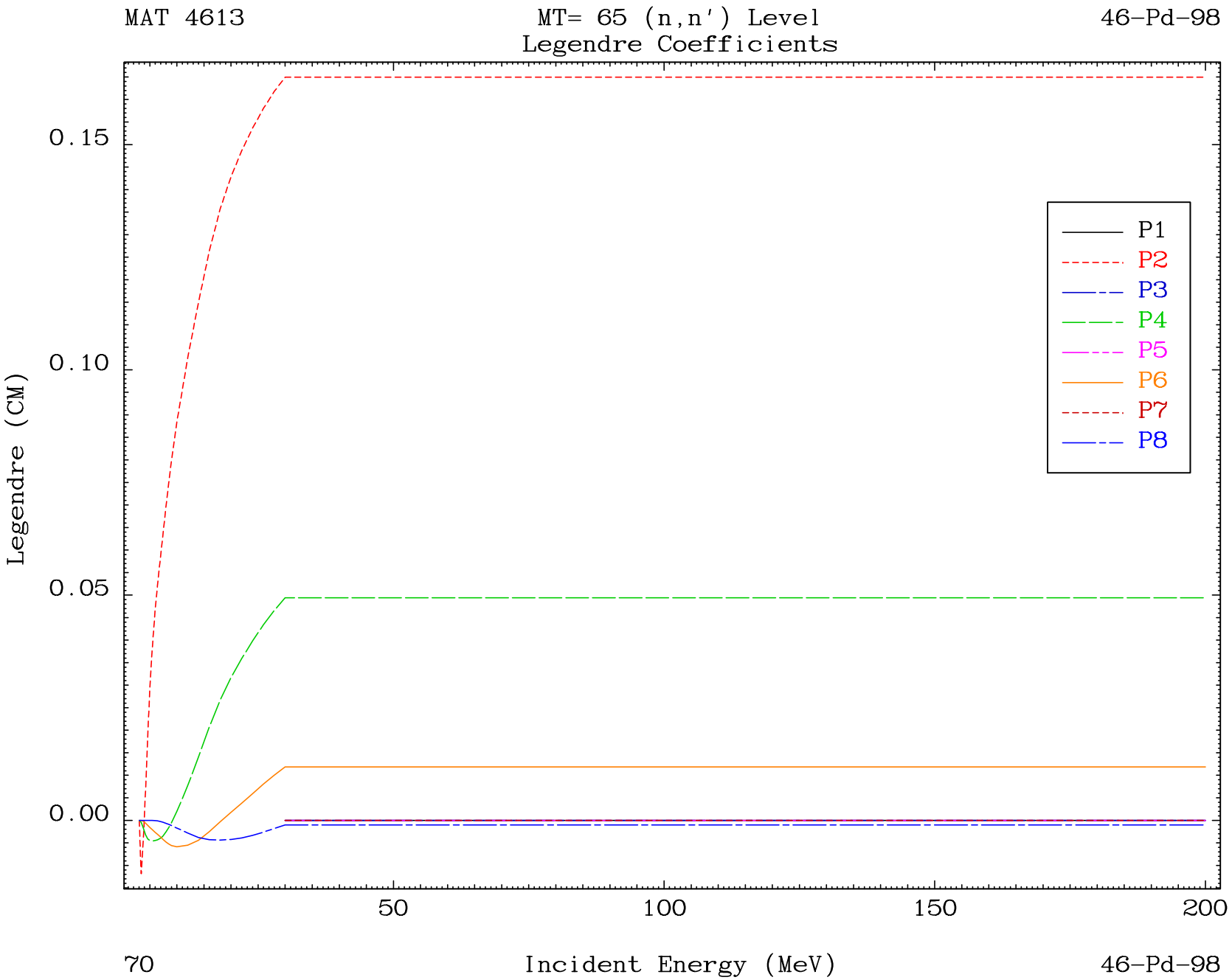

MAT 4613
MT= 63 (n,n') Level
Legendre Coefficients
46-Pd-98
X10-7
0.0
-0.5
-1.0
-1.5
-2.0
-2.5
Legendre (CM)
50
100
150
200
65
Incident Energy (MeV)
46-Pd-98
P23
P24
P25
P26
P27
P28
P29
P30
P31
P32

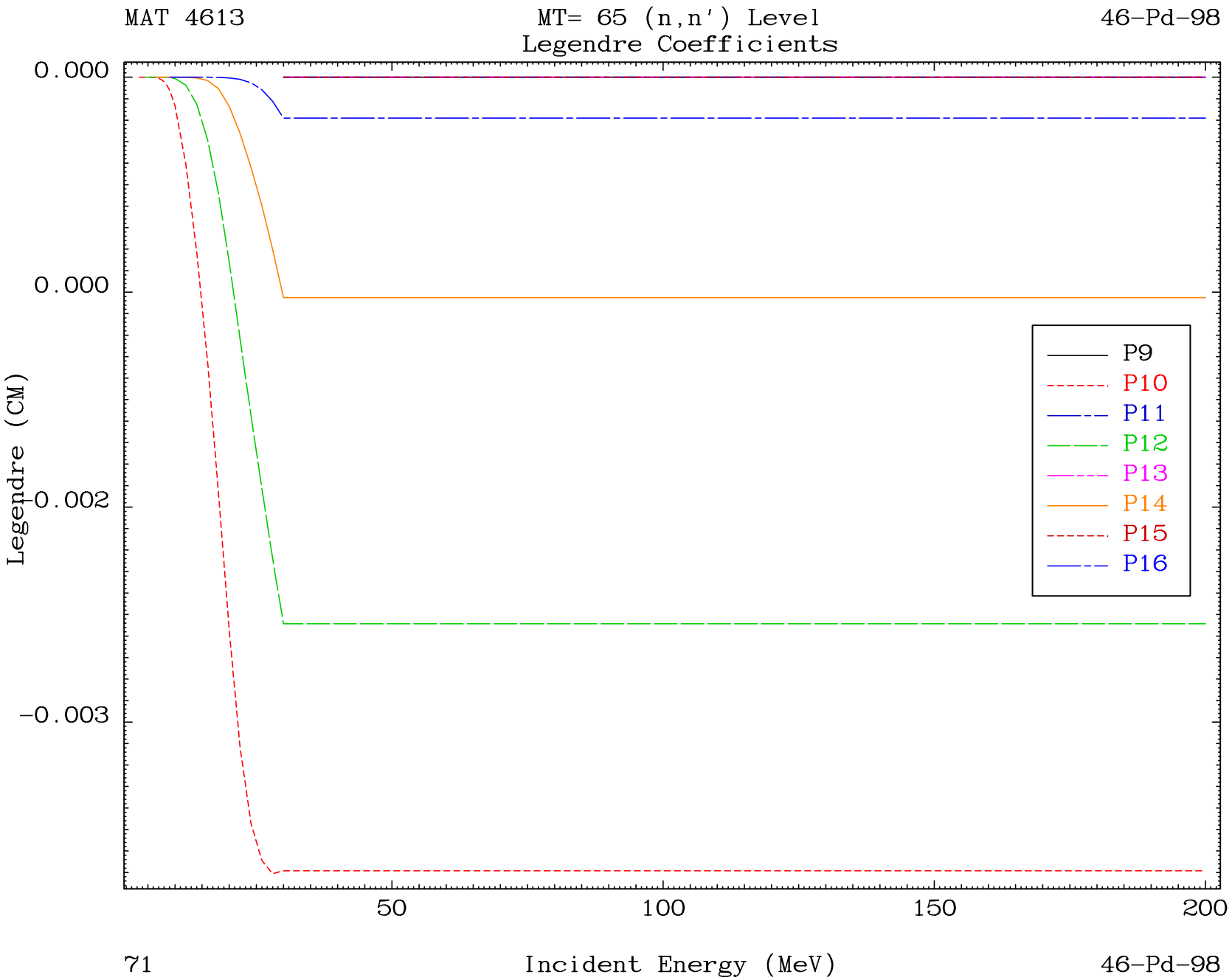

MAT 4613
MT= 64 (n,n') Level
Legendre Coefficients
46-Pd-98
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
66
Incident Energy (MeV)
46-Pd-98

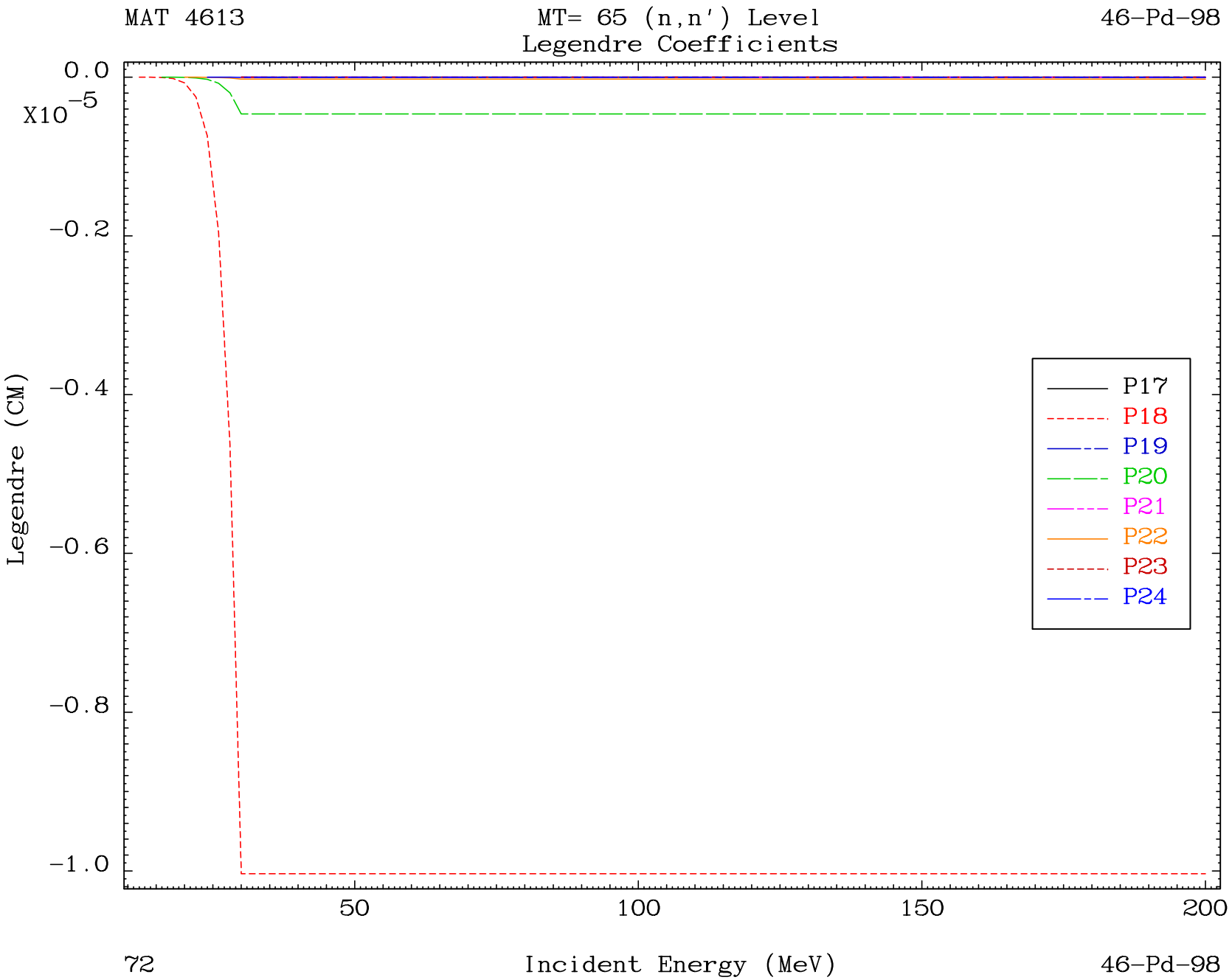

MAT 4613
MT= 64 (n,n') Level
Legendre Coefficients
46-Pd-98
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.025
0.020
0.015
0.010
0.005
0.000
-0.005
Legendre (CM)
50
100
150
200
67
Incident Energy (MeV)
46-Pd-98

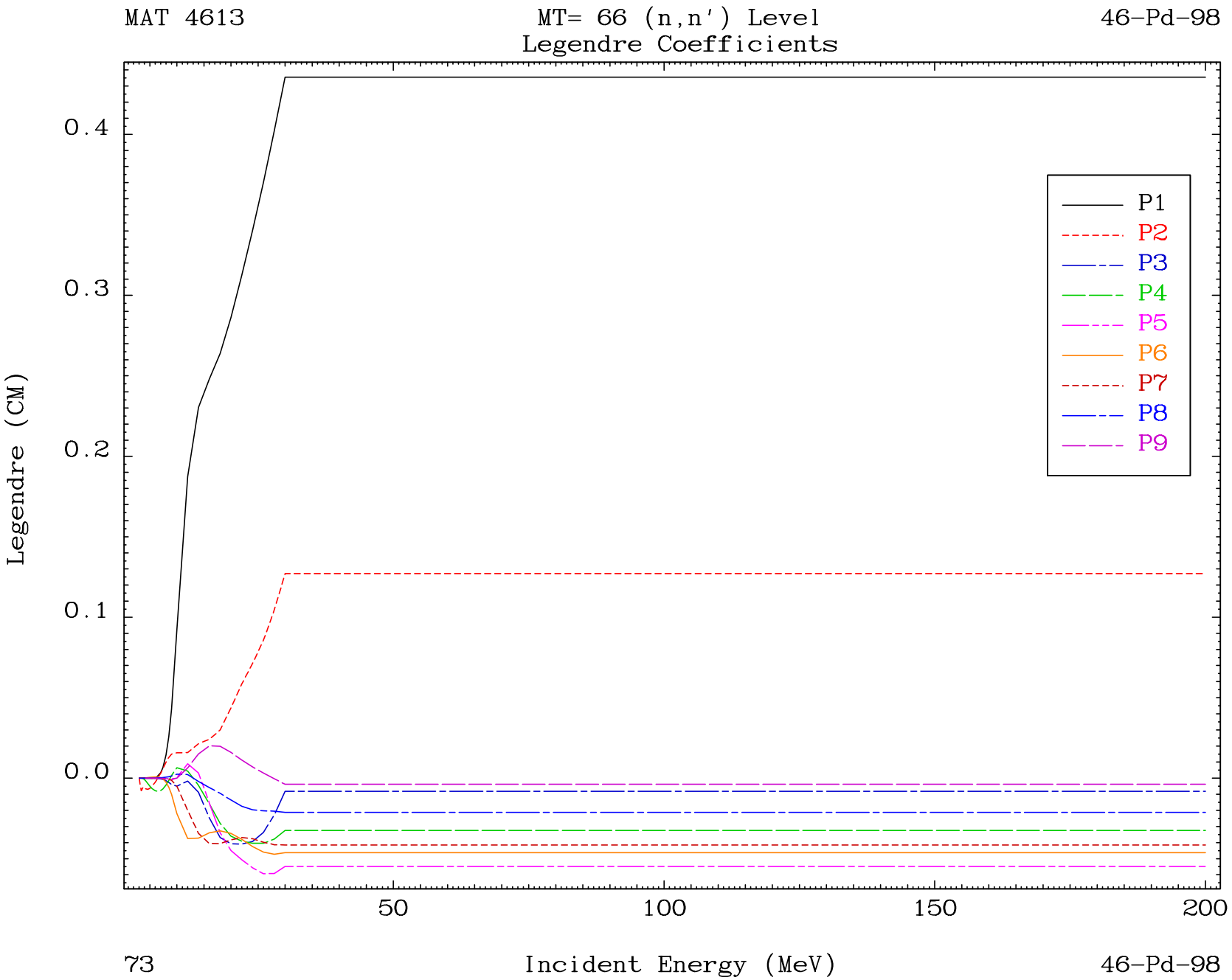

MAT 4613
MT= 64 (n,n') Level
Legendre Coefficients
46-Pd-98
X10^-4
6
4
2
0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
68
Incident Energy (MeV)
46-Pd-98

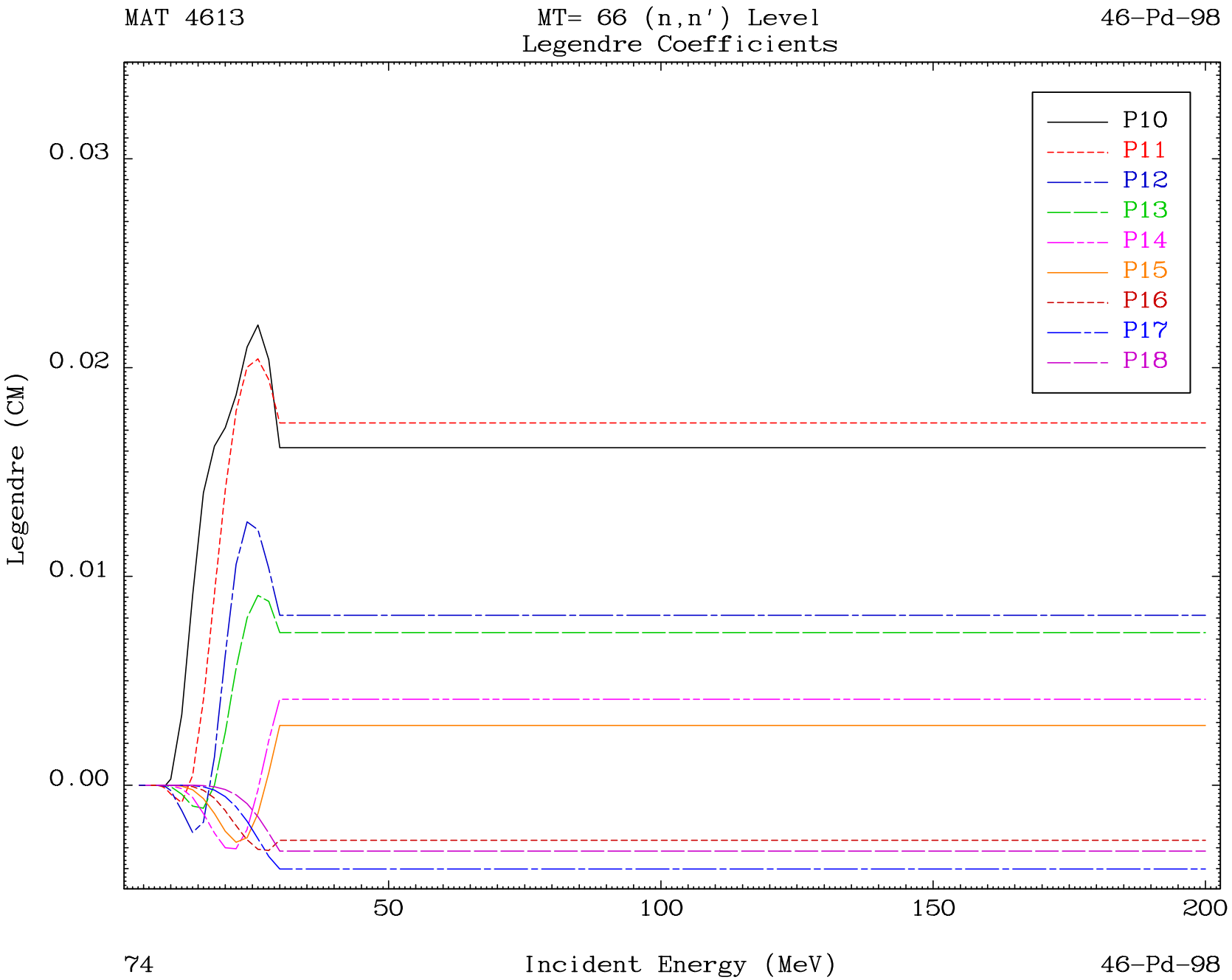

MAT 4613
MT= 64 (n,n') Level
Legendre Coefficients
46-Pd-98
X10-7
3
2
1
0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
69
Incident Energy (MeV)
46-Pd-98

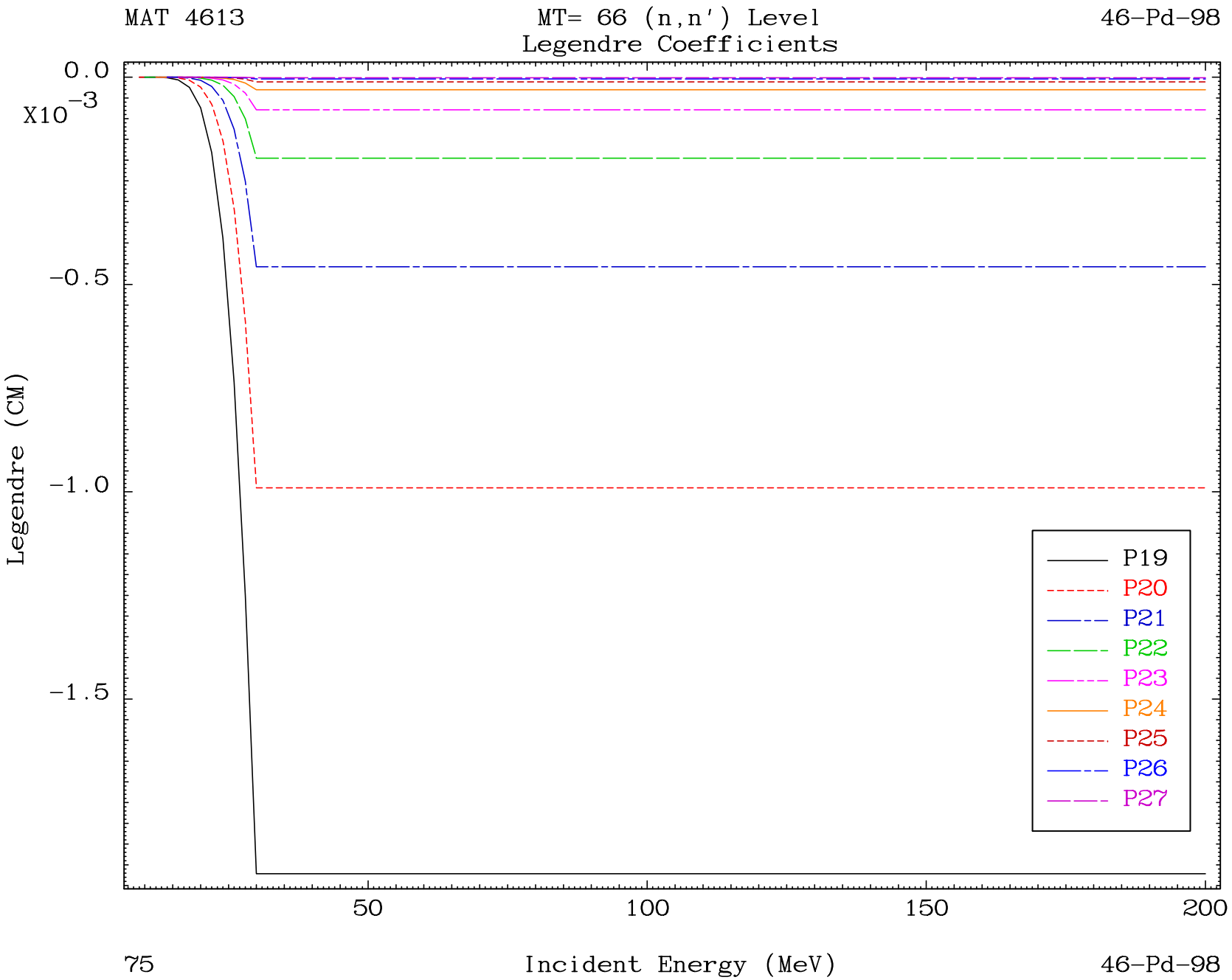

MAT 4613
MT= 65 (n,n') Level
Legendre Coefficients
46-Pd-98
0.15
0.10
0.05
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
50
100
150
200
70
Incident Energy (MeV)
46-Pd-98

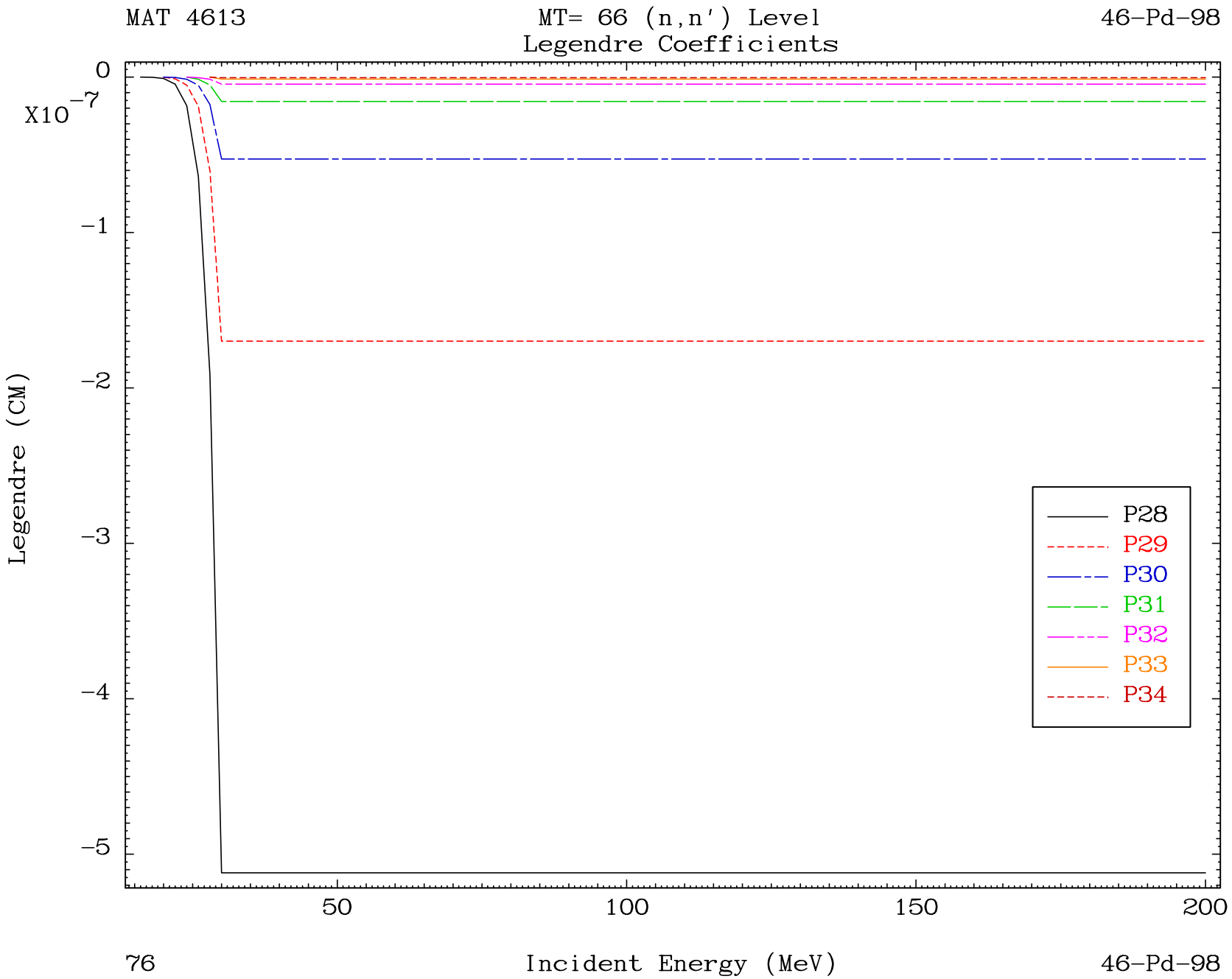

MAT 4613
MT= 65 (n,n') Level
Legendre Coefficients
46-Pd-98
0.000
0.000
-0.002
-0.003
Legendre (CM)
50
100
150
200
71
Incident Energy (MeV)
46-Pd-98
P9
P10
P11
P12
P13
P14
P15
P16

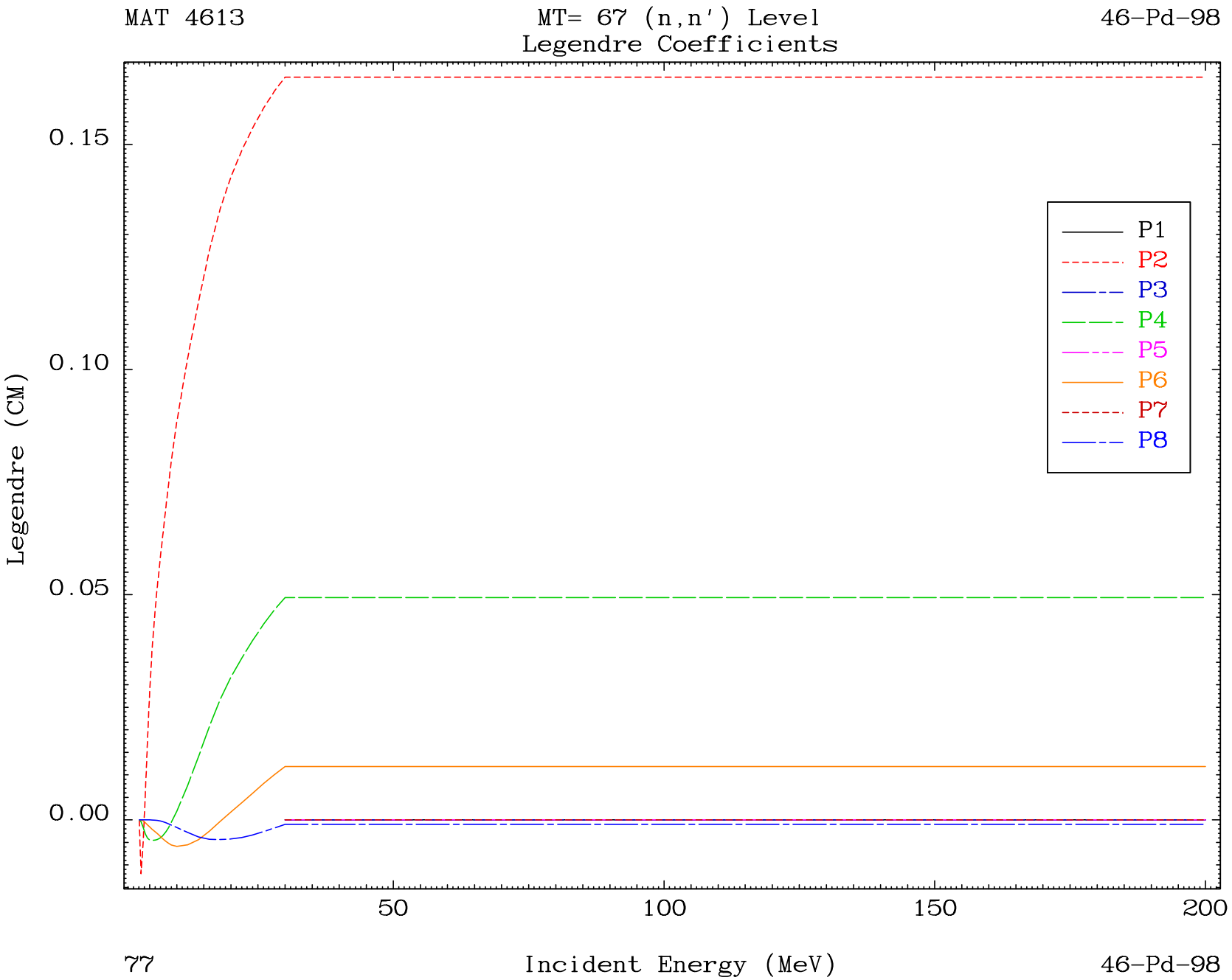

MAT 4613
MT= 65 (n,n') Level
Legendre Coefficients
46-Pd-98
0.0
X10^-5
-0.2
-0.4
-0.6
-0.8
-1.0
Legendre (CM)
50
100
150
200
72
Incident Energy (MeV)
46-Pd-98
P17
P18
P19
P20
P21
P22
P23
P24

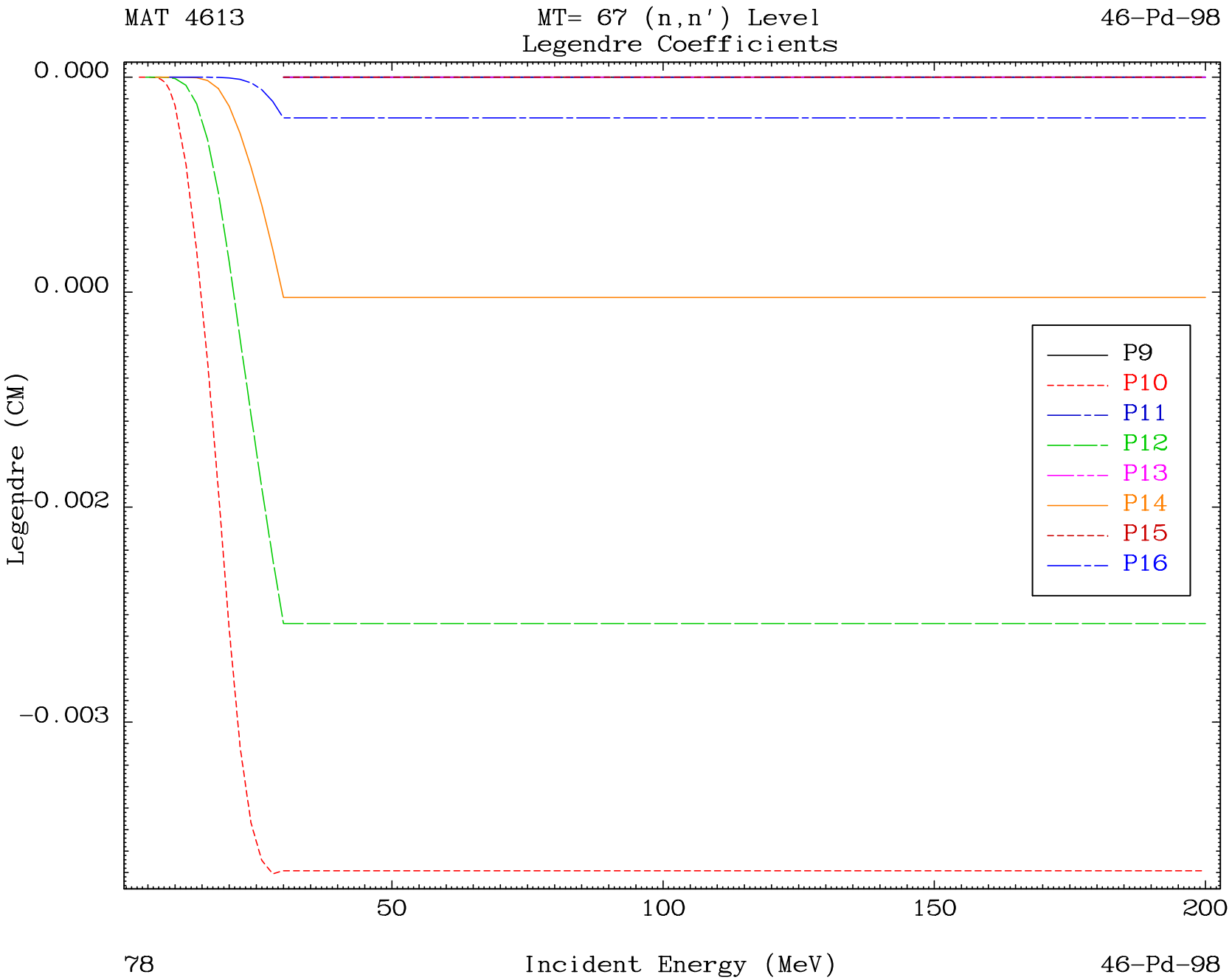

MAT 4613
MT= 66 (n,n') Level
Legendre Coefficients
46-Pd-98
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
50
100
150
200
Incident Energy (MeV)
73
46-Pd-98
P1
P2
P3
P4
P5
P6
P7
P8
P9

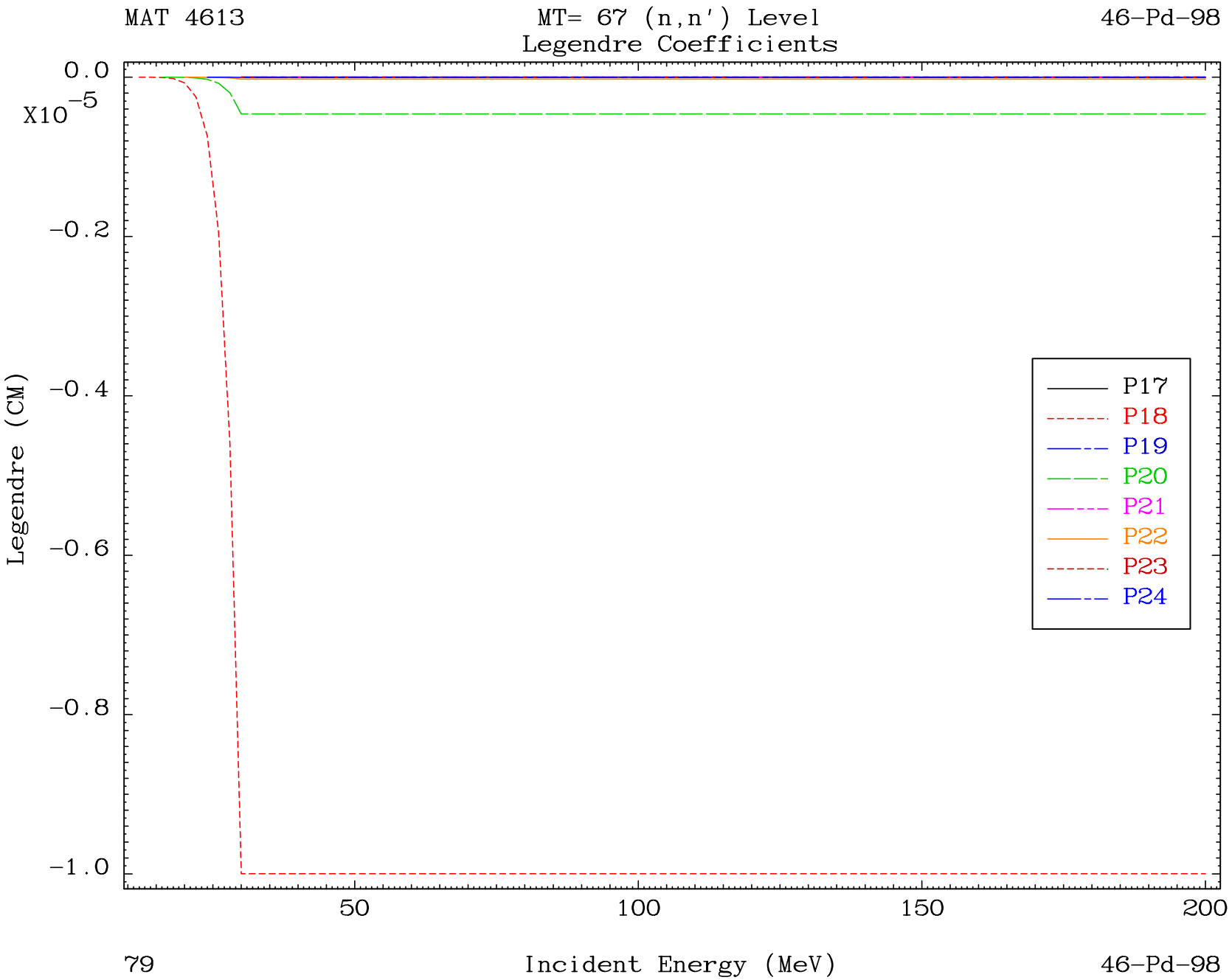

MAT 4613
MT= 66 (n,n') Level
Legendre Coefficients
46-Pd-98
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.03
0.02
0.01
0.00
Legendre (CM)
50
100
150
200
74
Incident Energy (MeV)
46-Pd-98

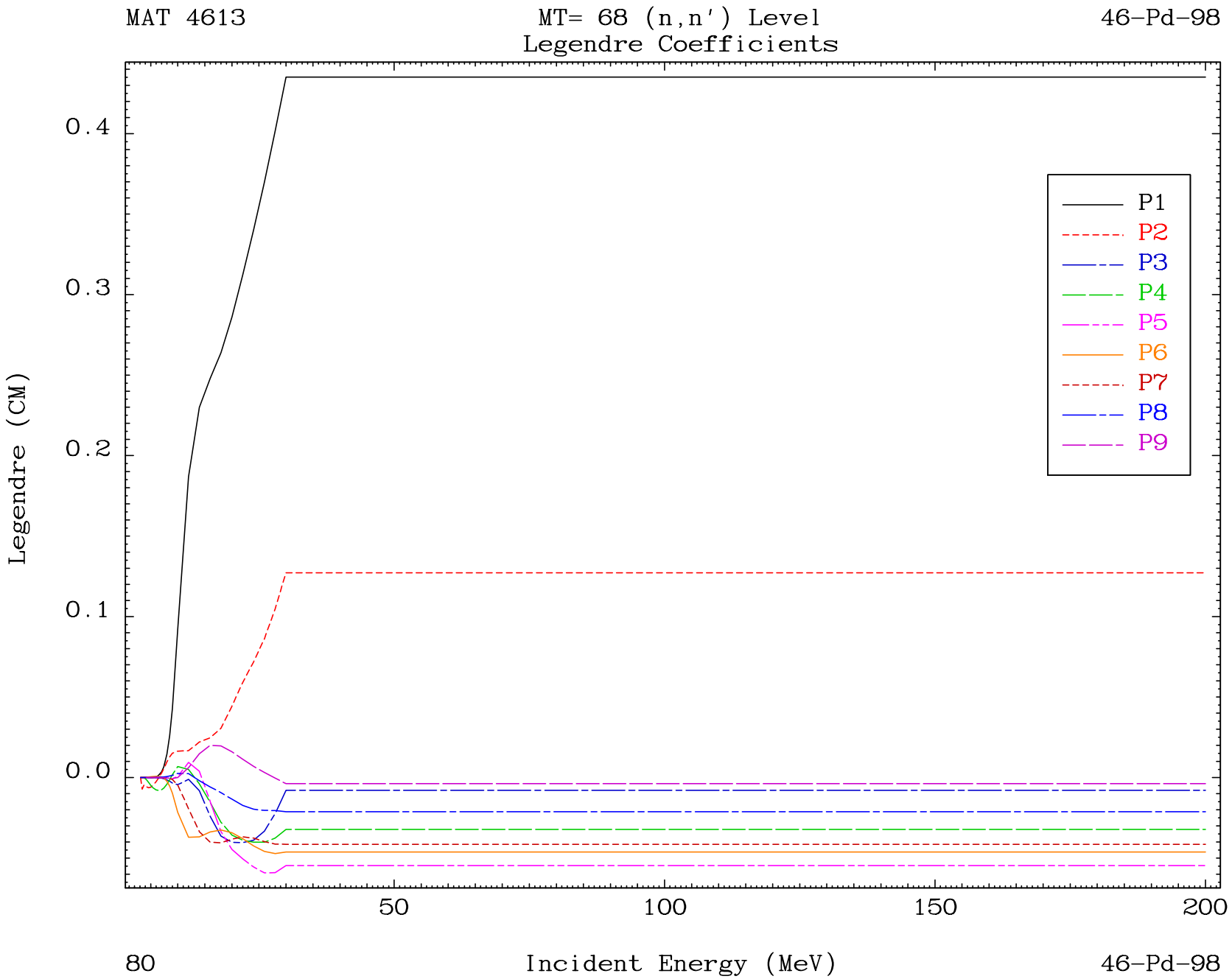

MAT 4613
MT= 66 (n,n') Level
Legendre Coefficients
46-Pd-98
0.0
X10^-3
-0.5
-1.0
-1.5
Legendre (CM)
50
100
150
200
75
Incident Energy (MeV)
46-Pd-98
P19
P20
P21
P22
P23
P24
P25
P26
P27

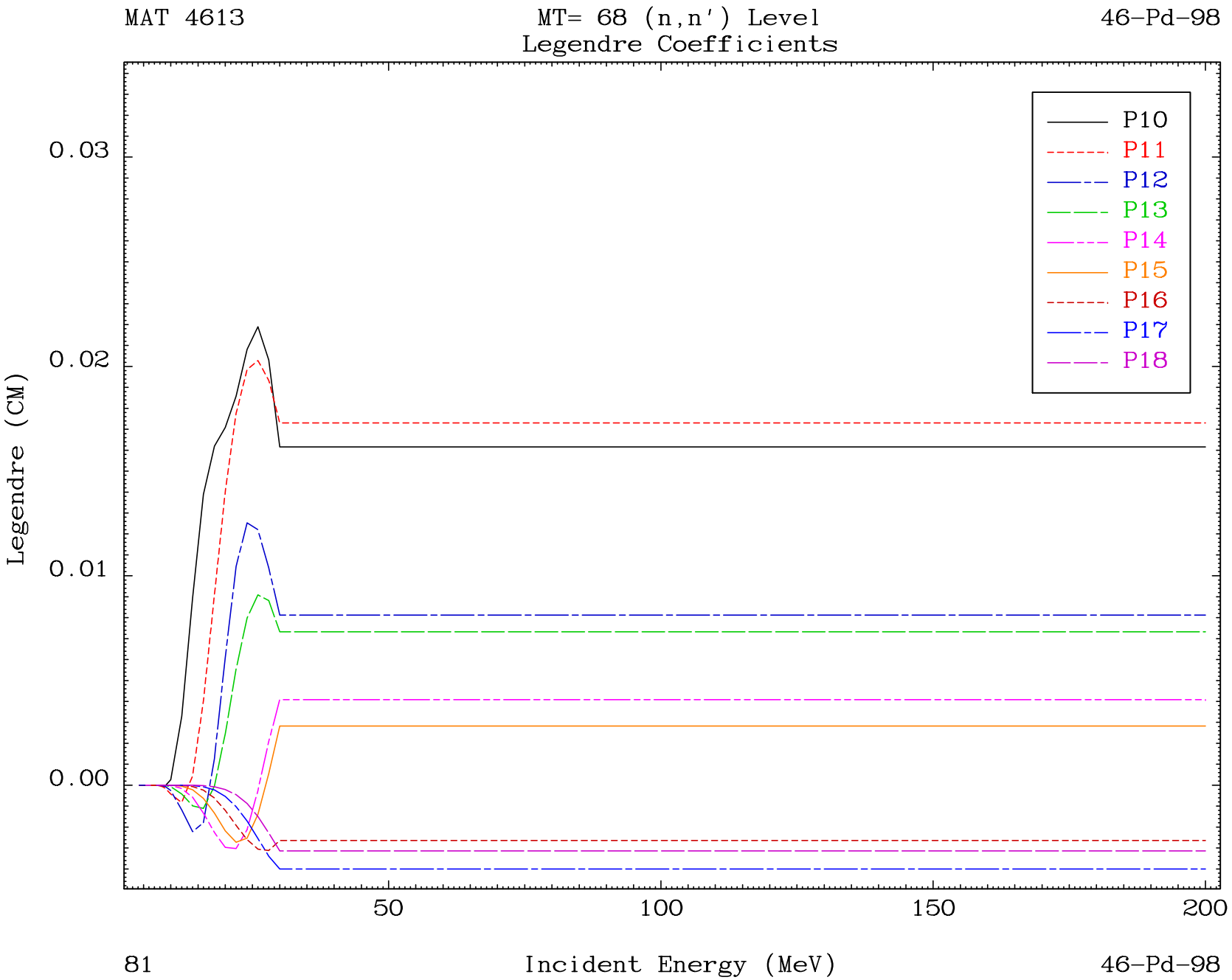

MAT 4613
MT= 66 (n,n') Level
Legendre Coefficients
46-Pd-98
X10-7
0
-1
-2
-3
-4
-5
Legendre (CM)
50
100
150
200
P28
P29
P30
P31
P32
P33
P34
76
Incident Energy (MeV)
46-Pd-98

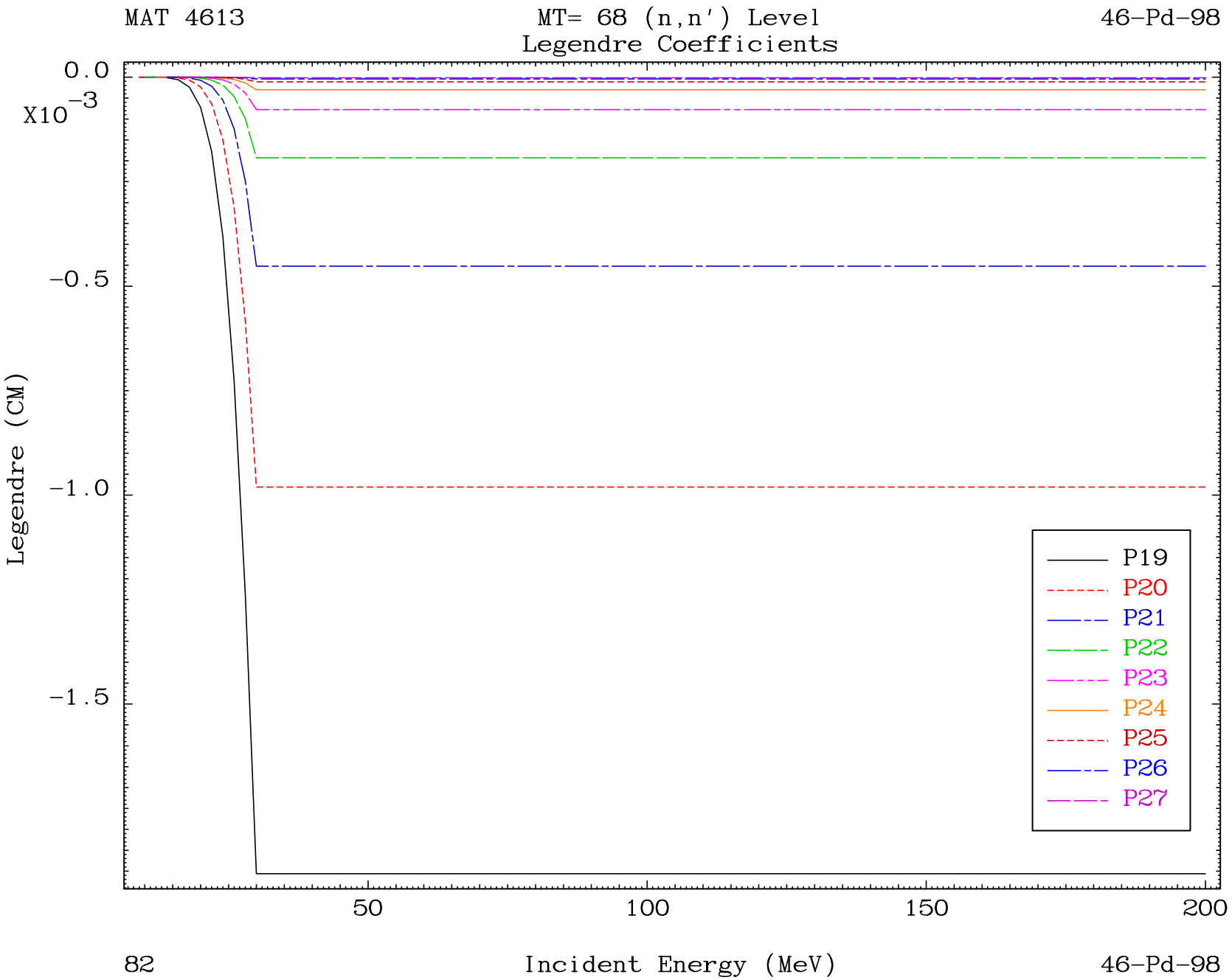

MAT 4613
MT= 67 (n,n') Level
Legendre Coefficients
46-Pd-98
0.15
0.10
0.05
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
50
100
150
200
77
Incident Energy (MeV)
46-Pd-98

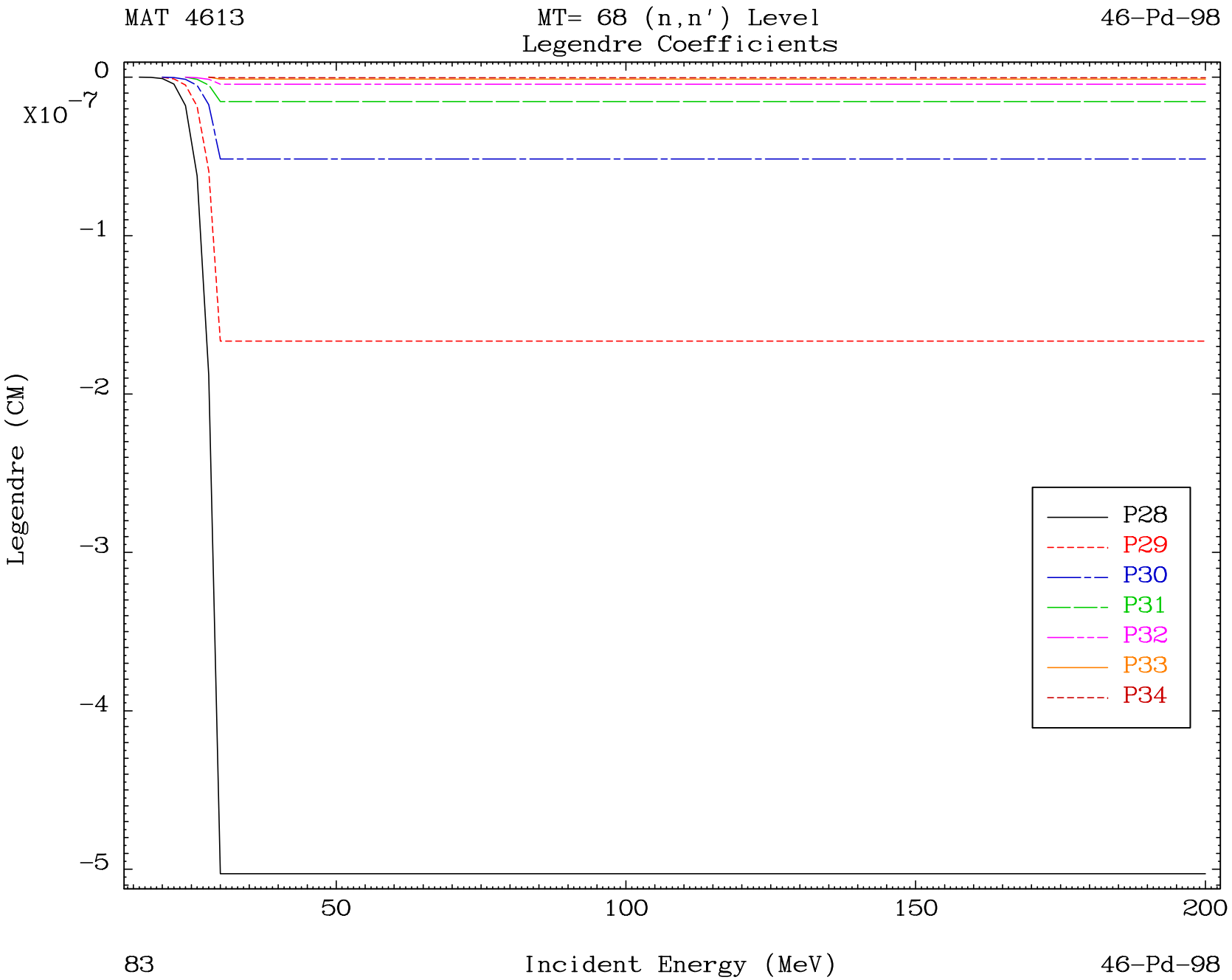

MAT 4613
MT= 67 (n,n') Level
Legendre Coefficients
46-Pd-98
0.000
0.000
-0.002
-0.003
Legendre (CM)
50
100
150
200
78
Incident Energy (MeV)
46-Pd-98
P9
P10
P11
P12
P13
P14
P15
P16

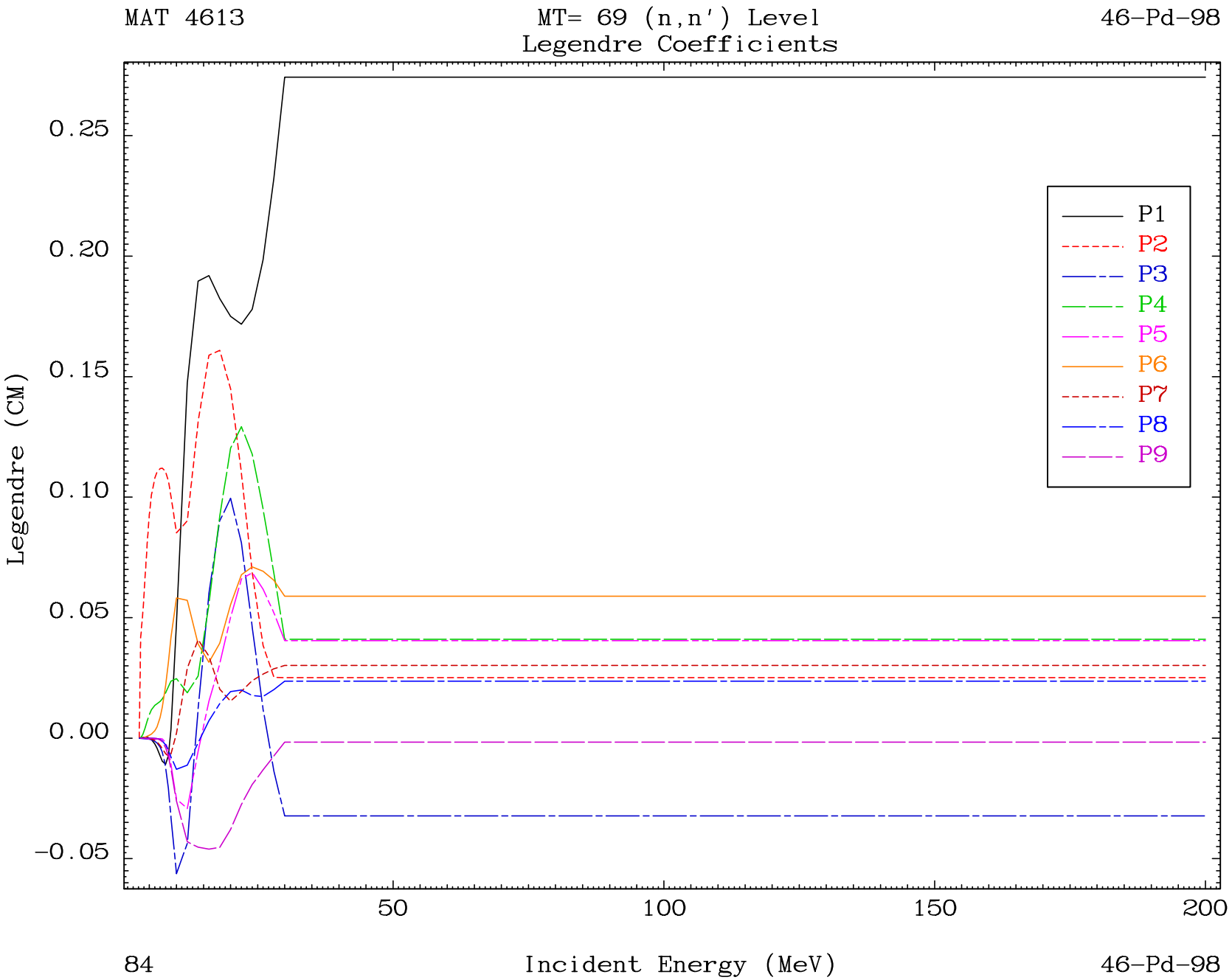

MAT 4613
MT= 67 (n,n') Level
Legendre Coefficients
46-Pd-98
0.0
X10^-5
-0.2
-0.4
-0.6
-0.8
-1.0
Legendre (CM)
50
100
150
200
79
Incident Energy (MeV)
46-Pd-98
P17
P18
P19
P20
P21
P22
P23
P24

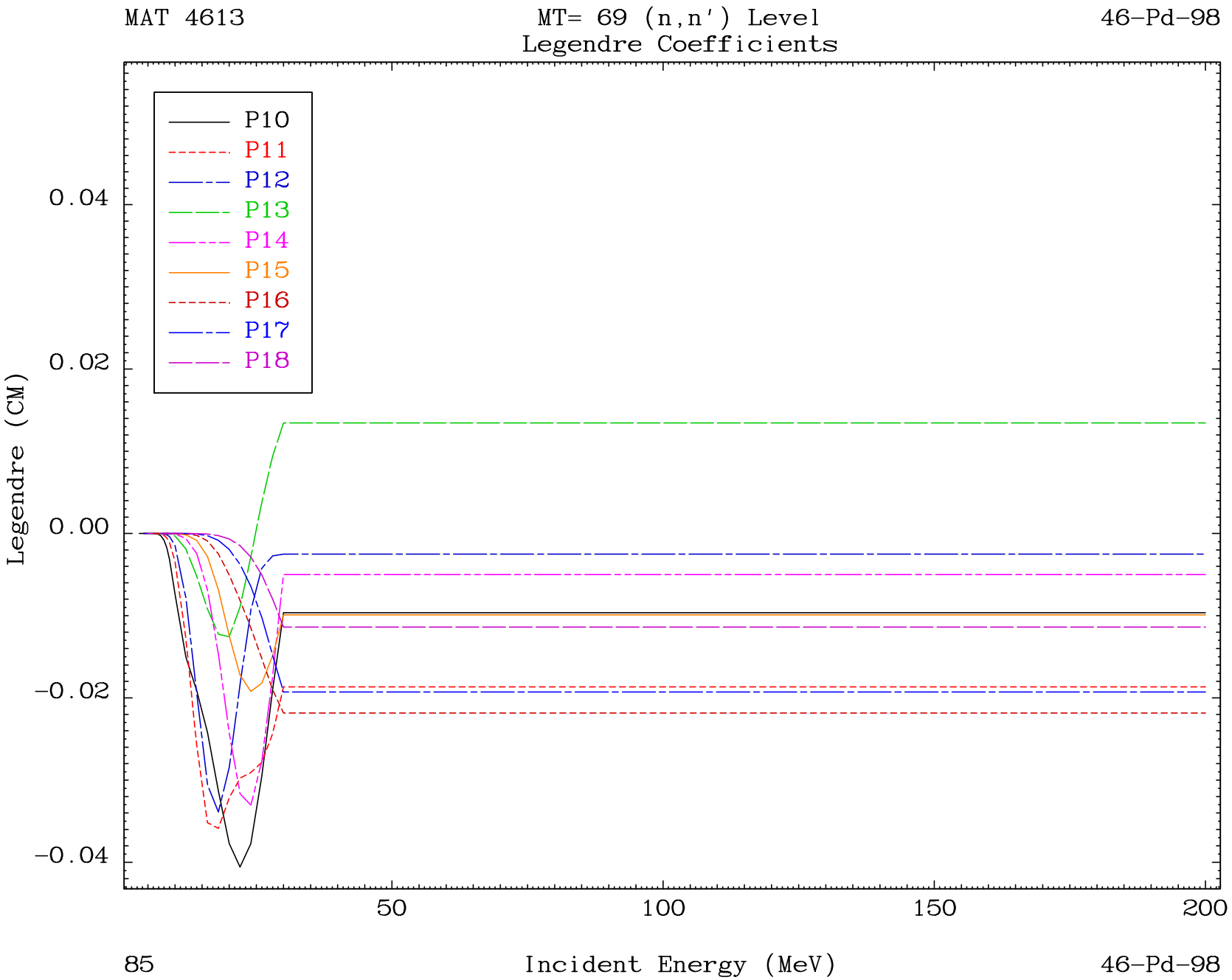

MAT 4613
MT= 68 (n,n') Level
Legendre Coefficients
46-Pd-98
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
P1
P2
P3
P4
P5
P6
P7
P8
P9
50
100
150
200
80
Incident Energy (MeV)
46-Pd-98

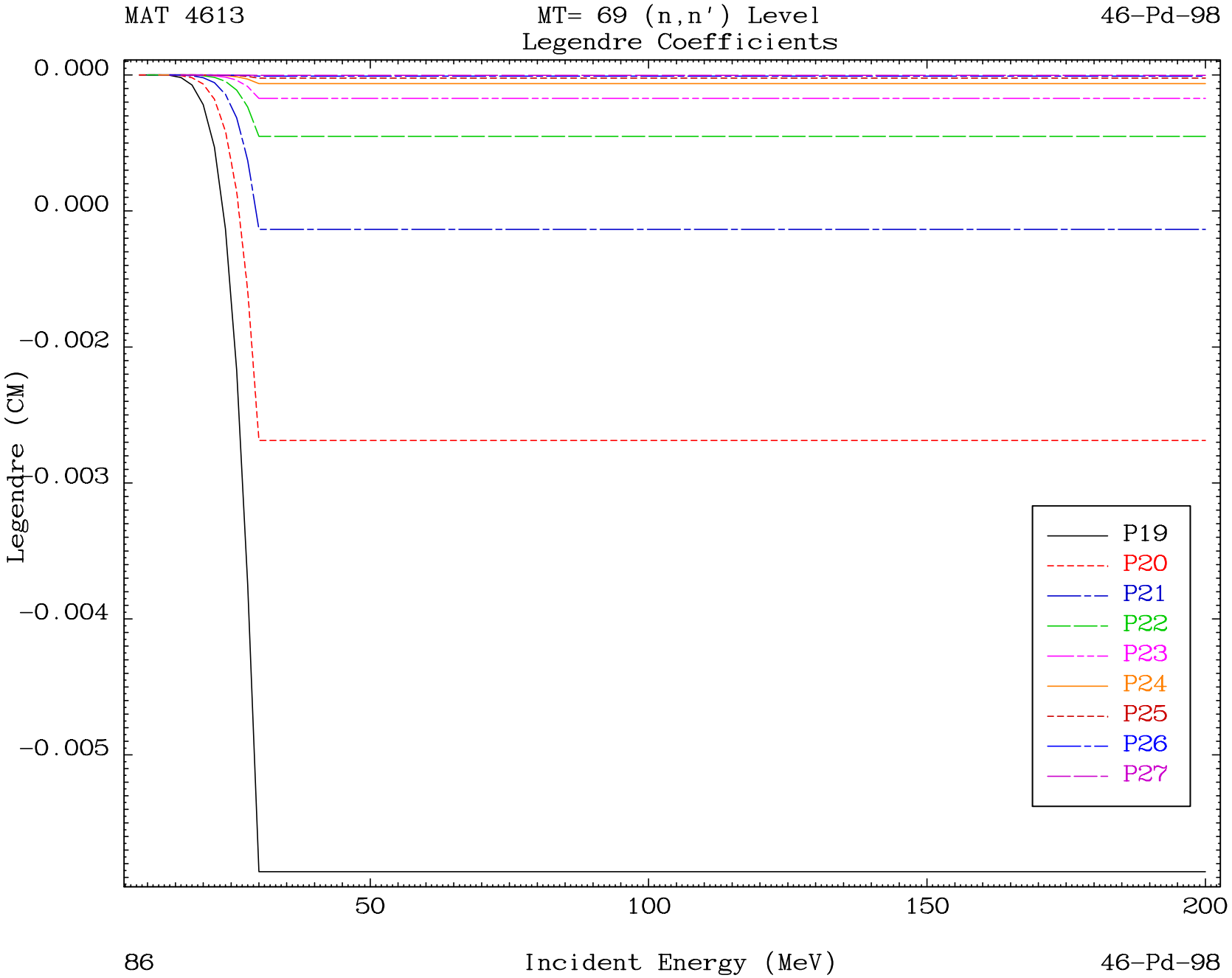

MAT 4613
MT= 68 (n,n') Level
Legendre Coefficients
46-Pd-98
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.03
0.02
0.01
0.00
Legendre (CM)
50
100
150
200
81
Incident Energy (MeV)
46-Pd-98

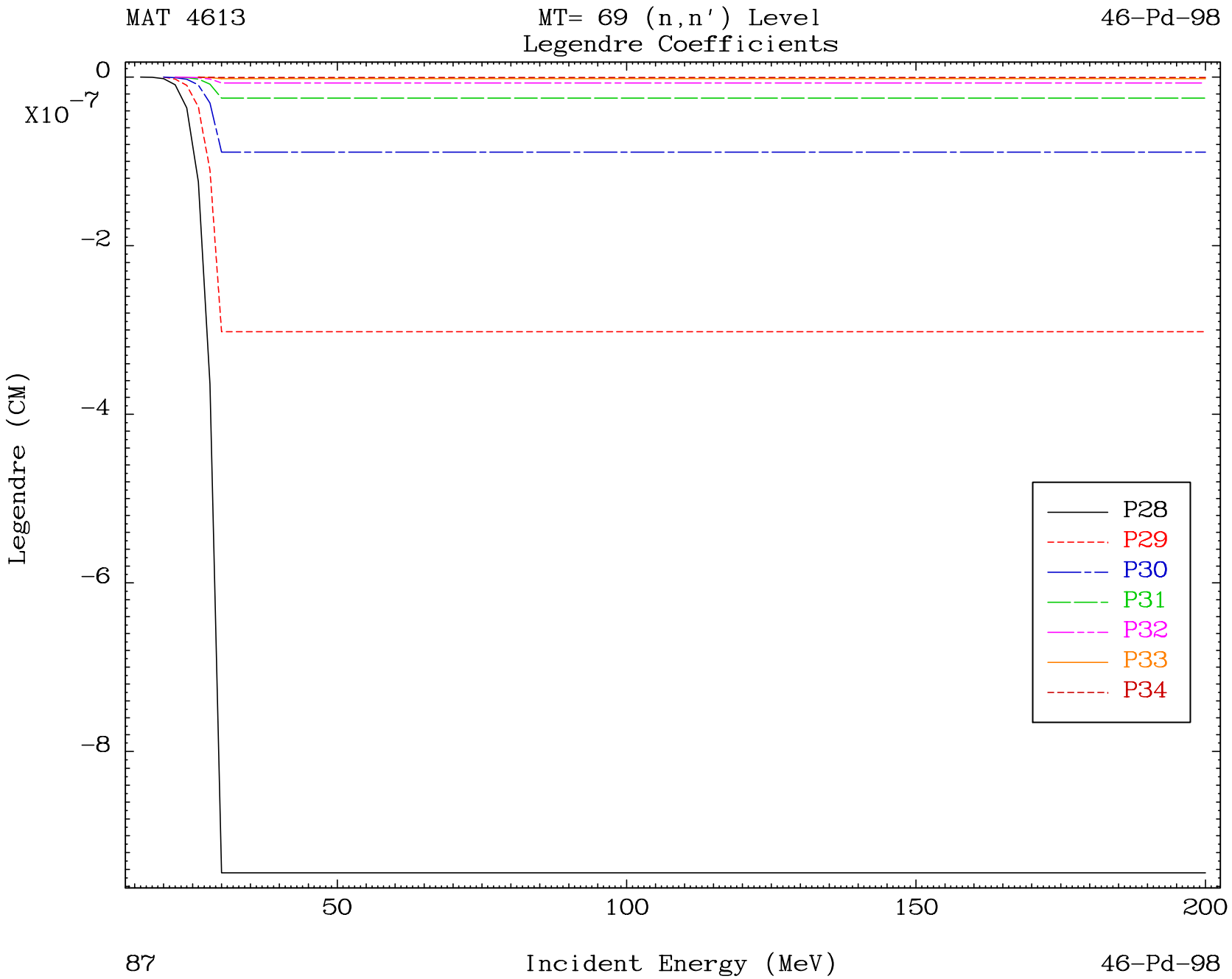

MAT 4613
MT= 68 (n,n') Level
Legendre Coefficients
46-Pd-98
0.0
X10^-3
-0.5
-1.0
-1.5
Legendre (CM)
50
100
150
200
82
Incident Energy (MeV)
46-Pd-98
P19
P20
P21
P22
P23
P24
P25
P26
P27

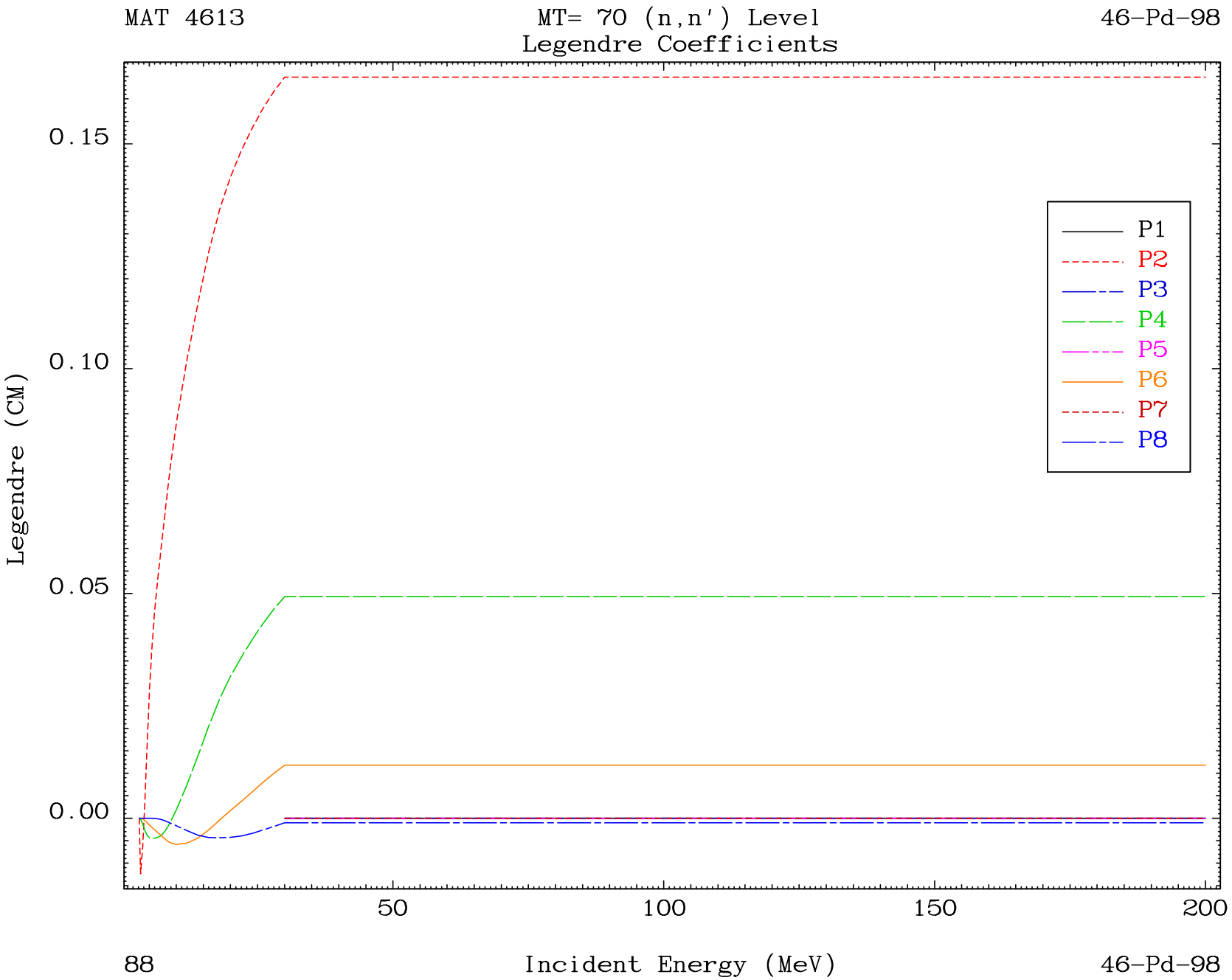

MAT 4613
MT= 68 (n,n') Level
Legendre Coefficients
46-Pd-98
0
X10-7
-1
-2
-3
-4
-5
Legendre (CM)
50
100
150
200
P28
P29
P30
P31
P32
P33
P34
83
Incident Energy (MeV)
46-Pd-98

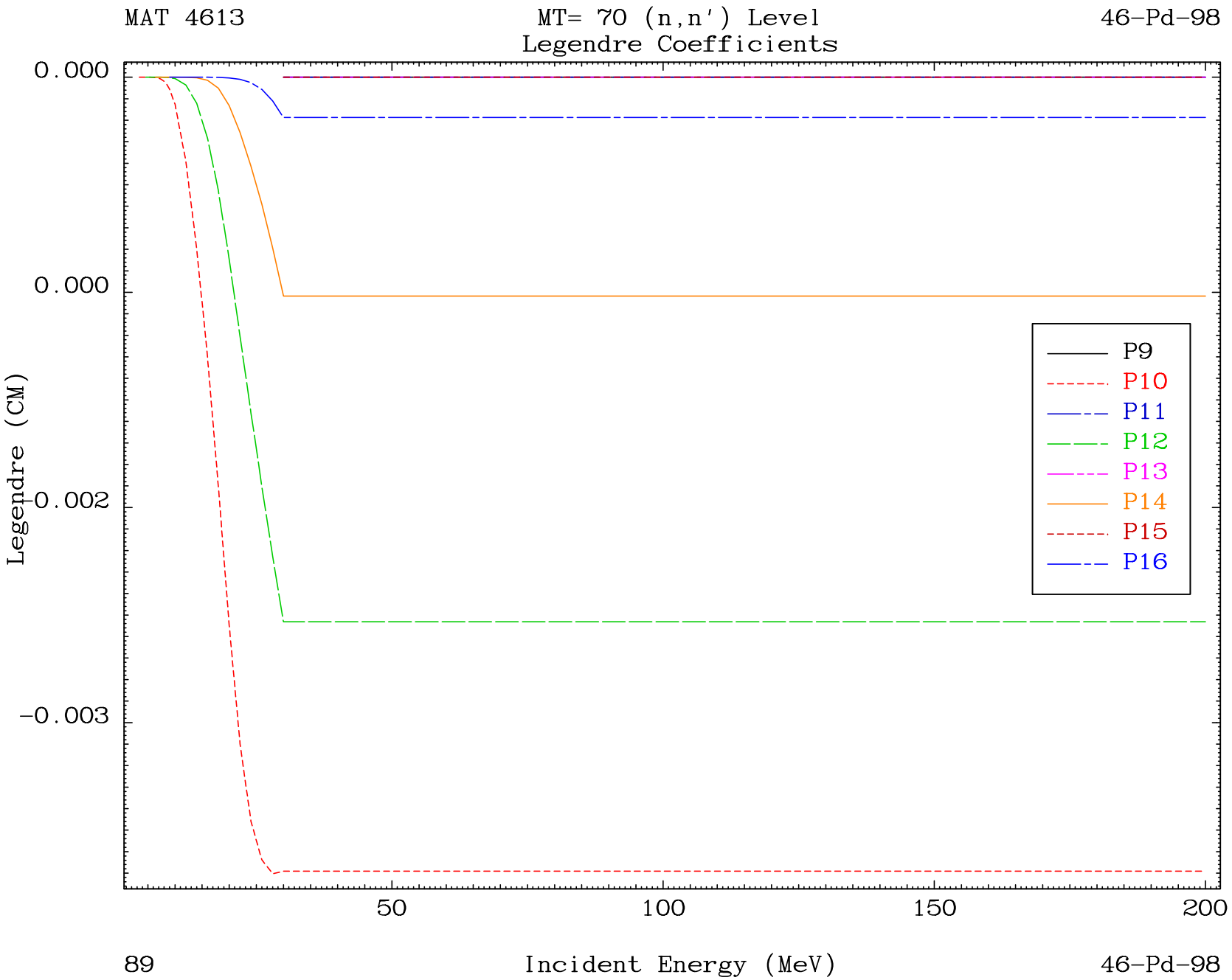

MAT 4613
MT= 69 (n,n') Level
Legendre Coefficients
46-Pd-98
Legendre (CM)
0.25
0.20
0.15
0.10
0.05
0.00
-0.05
50
100
150
200
Incident Energy (MeV)
84
46-Pd-98
P1
P2
P3
P4
P5
P6
P7
P8
P9

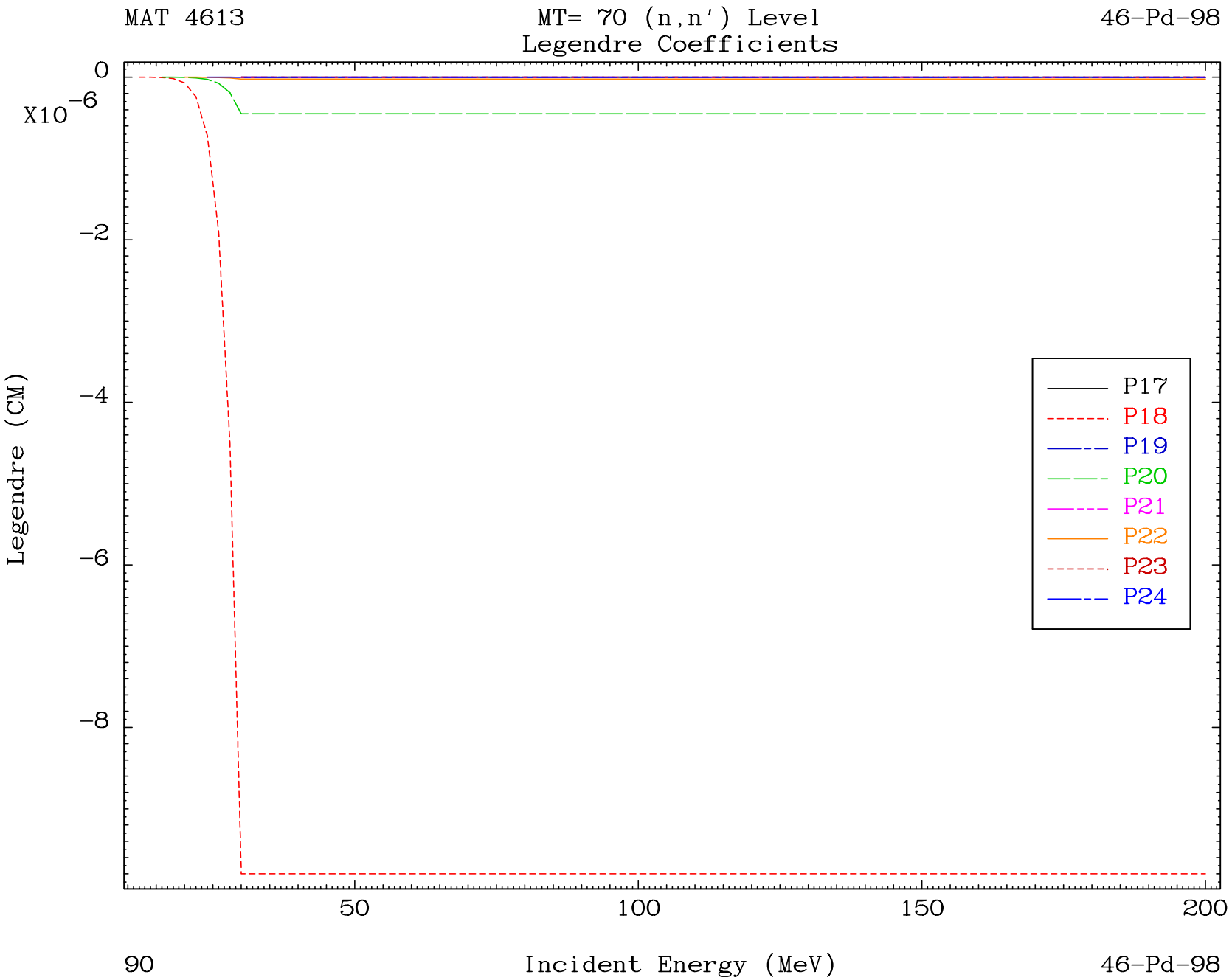

MAT 4613
MT= 69 (n,n') Level
Legendre Coefficients
46-Pd-98
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.04
0.02
0.00
-0.02
-0.04
Legendre (CM)
50
100
150
200
85
Incident Energy (MeV)
46-Pd-98

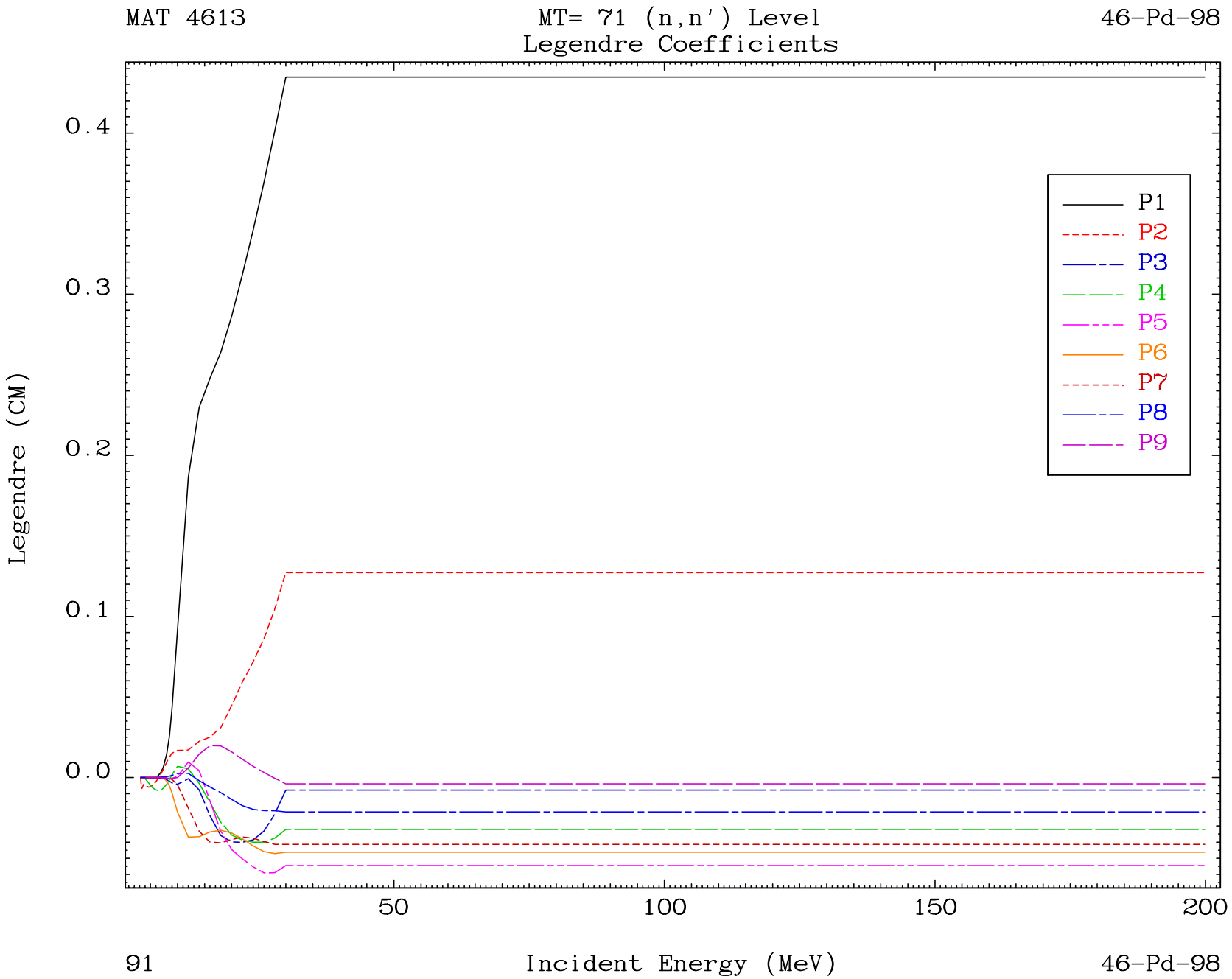

MAT 4613
MT= 69 (n,n') Level
Legendre Coefficients
46-Pd-98
0.000
0.000
-0.002
-0.003
-0.004
-0.005
Legendre (CM)
50
100
150
200
P19
P20
P21
P22
P23
P24
P25
P26
P27
86
Incident Energy (MeV)
46-Pd-98

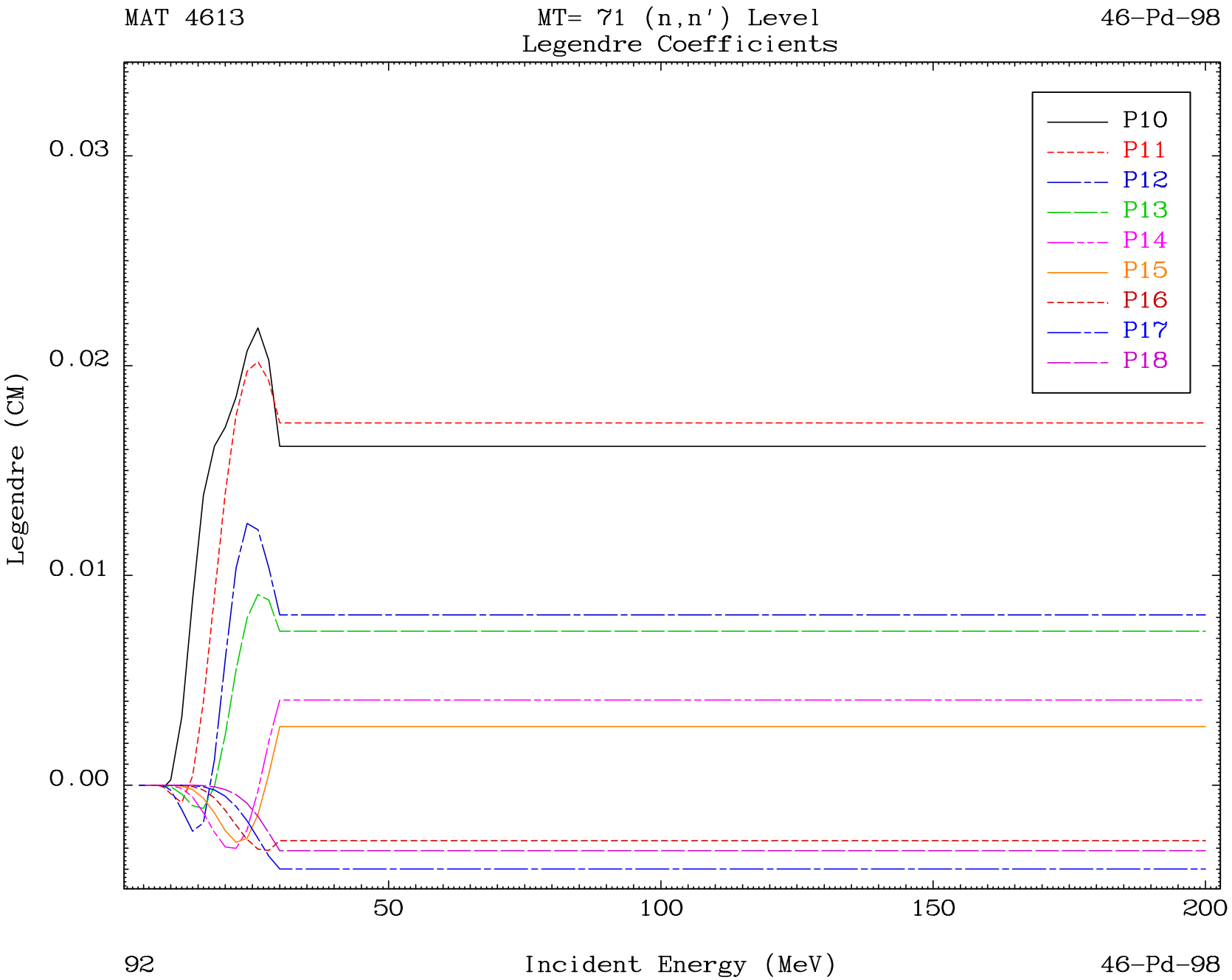

MAT 4613
MT= 69 (n,n') Level
Legendre Coefficients
46-Pd-98
X10-7
0
-2
-4
-6
-8
Legendre (CM)
50
100
150
200
87
Incident Energy (MeV)
46-Pd-98
P28
P29
P30
P31
P32
P33
P34

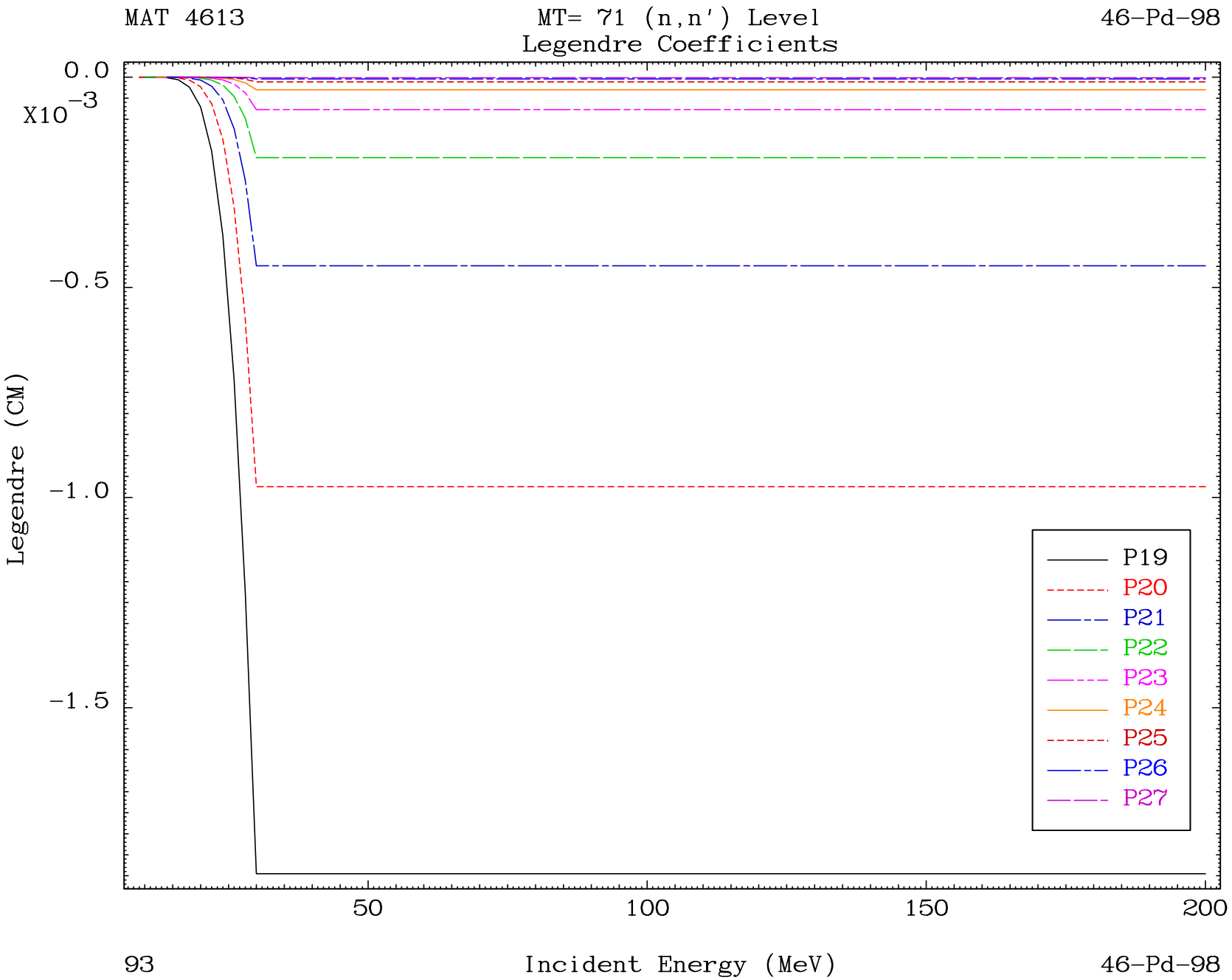

MAT 4613
MT= 70 (n,n') Level
Legendre Coefficients
46-Pd-98
0.15
0.10
0.05
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
50
100
150
200
88
Incident Energy (MeV)
46-Pd-98

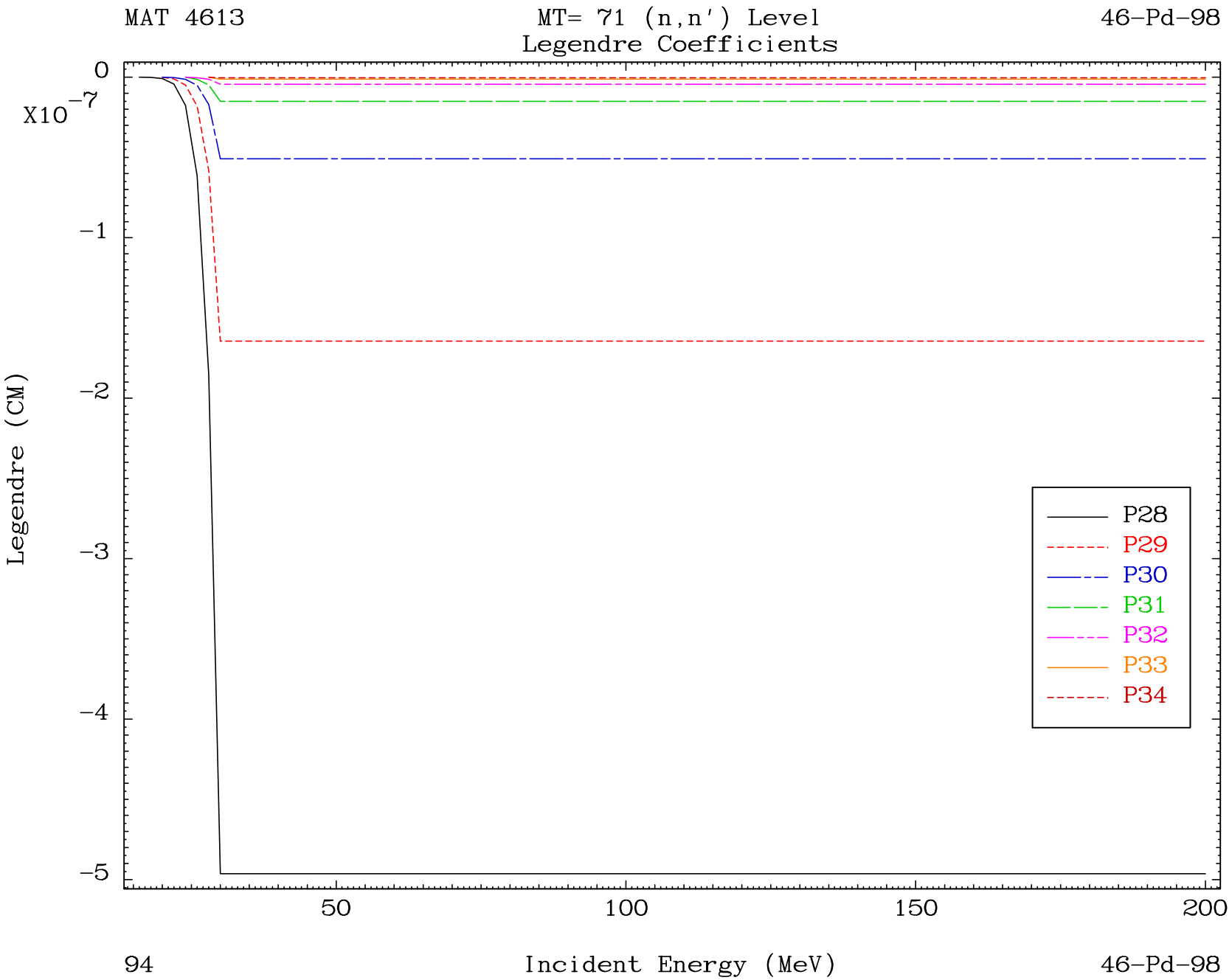

MAT 4613
MT= 70 (n,n') Level
Legendre Coefficients
46-Pd-98
0.000
0.000
-0.002
-0.003
Legendre (CM)
50
100
150
200
89
Incident Energy (MeV)
46-Pd-98
P9
P10
P11
P12
P13
P14
P15
P16

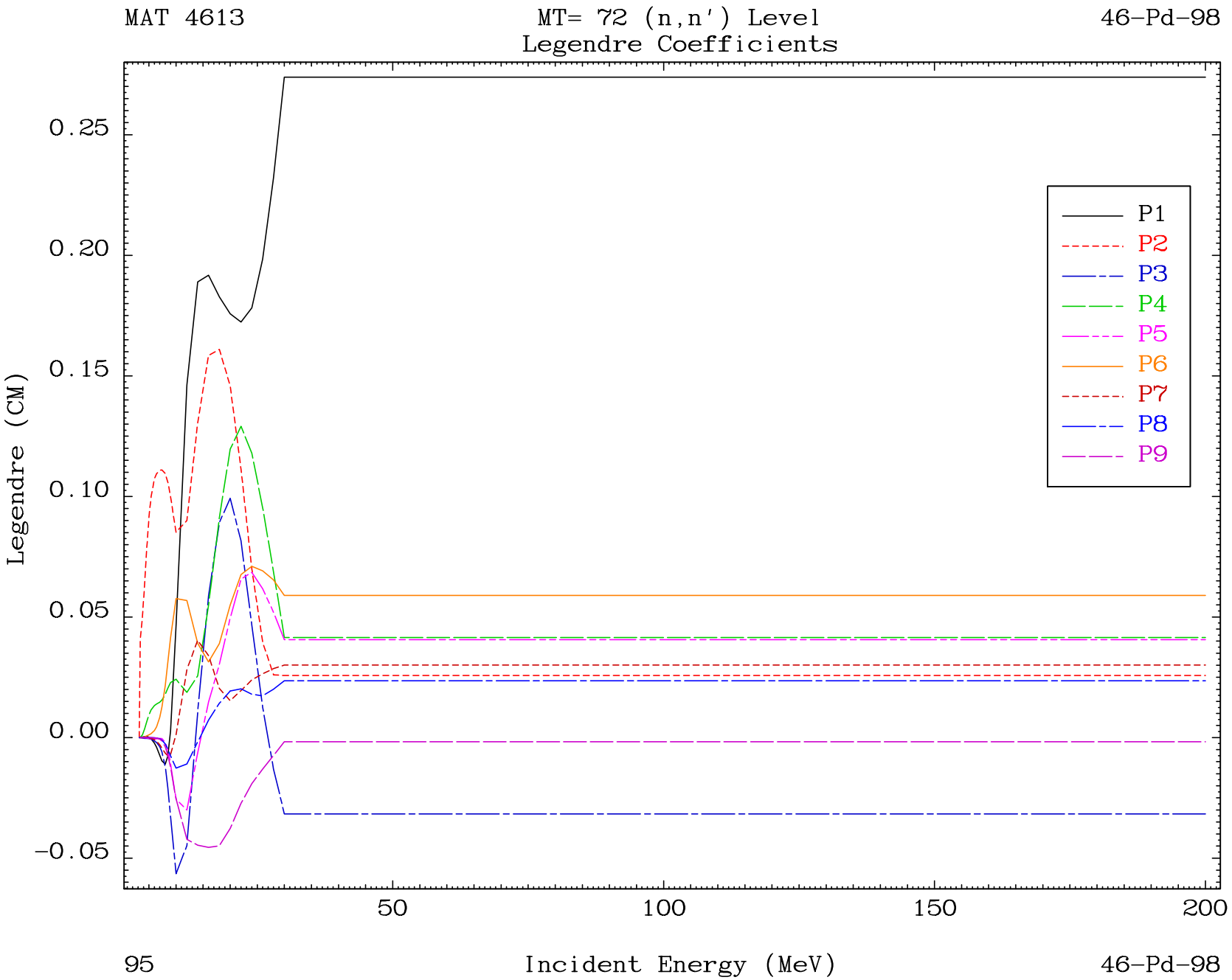

MAT 4613
MT= 70 (n,n') Level
Legendre Coefficients
46-Pd-98
0
X10^-6
-2
-4
-6
-8
Legendre (CM)
P17
P18
P19
P20
P21
P22
P23
P24
50
100
150
200
90
Incident Energy (MeV)
46-Pd-98

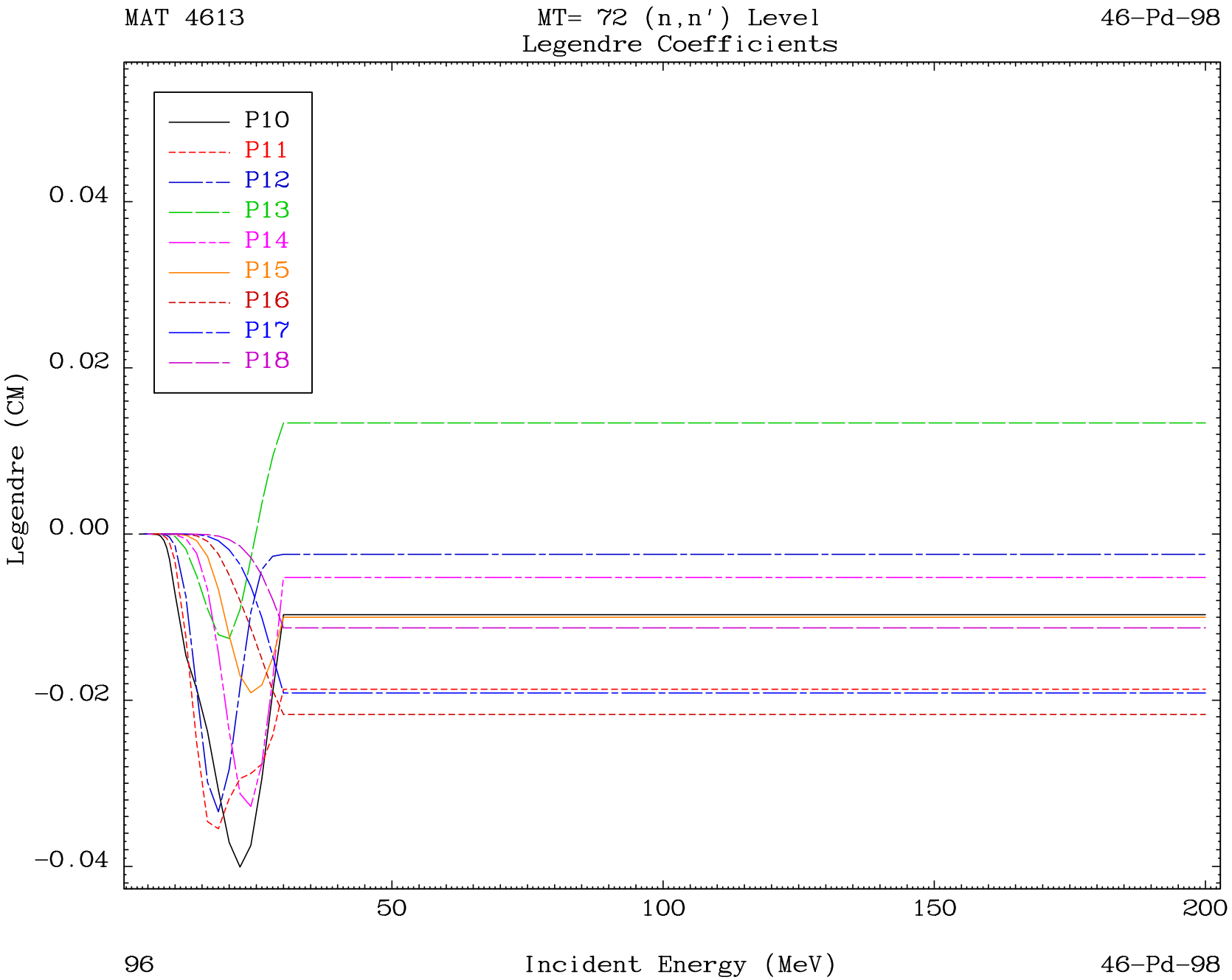

MAT 4613
MT= 71 (n,n') Level
Legendre Coefficients
46-Pd-98
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
50
100
150
200
Incident Energy (MeV)
91
46-Pd-98
P1
P2
P3
P4
P5
P6
P7
P8
P9

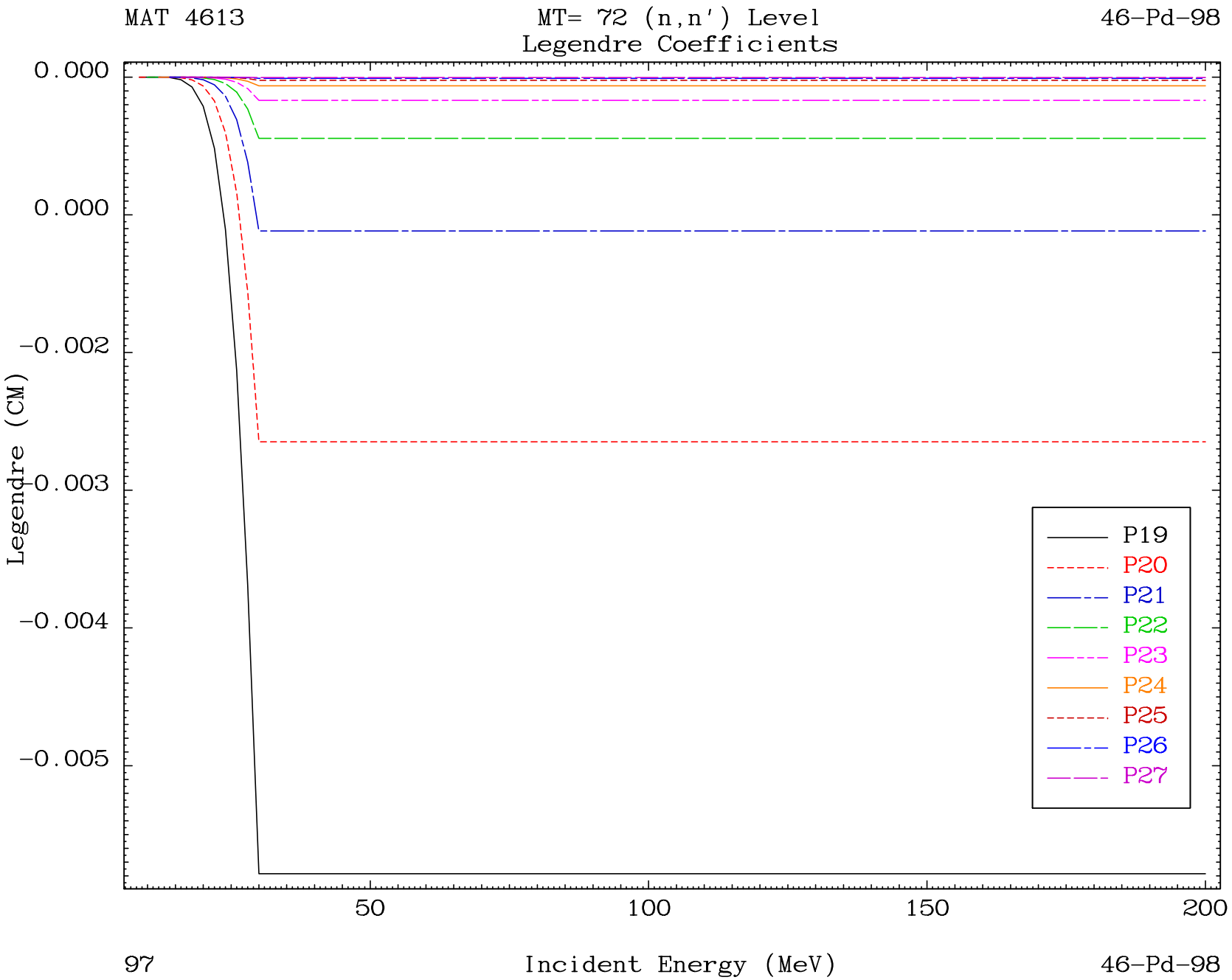

MAT 4613
MT= 71 (n,n') Level
Legendre Coefficients
46-Pd-98
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.03
0.02
0.01
0.00
Legendre (CM)
50
100
150
200
92
Incident Energy (MeV)
46-Pd-98

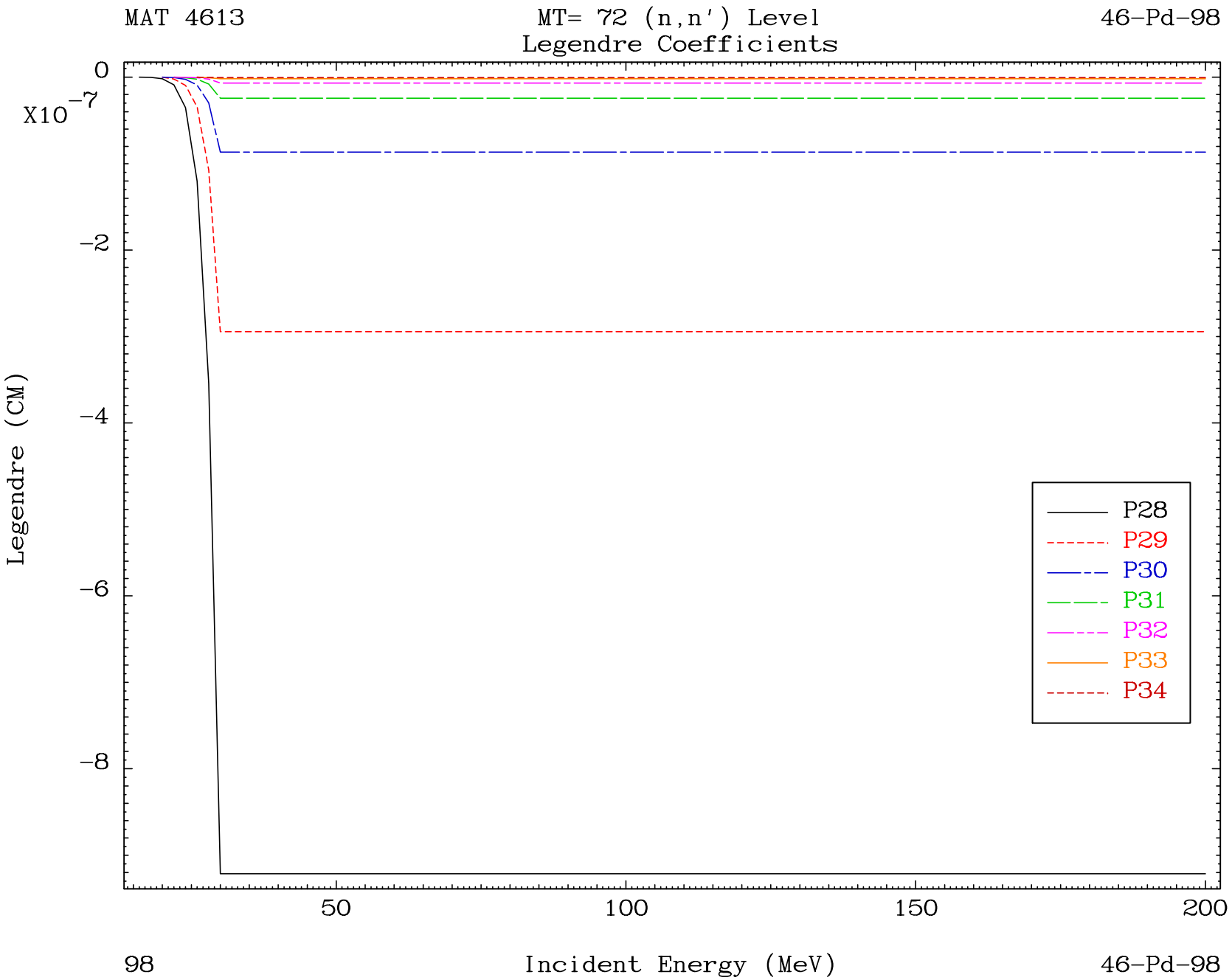

MAT 4613
MT= 71 (n,n') Level
Legendre Coefficients
46-Pd-98
0.0
X10^-3
-0.5
-1.0
-1.5
Legendre (CM)
50
100
150
200
93
Incident Energy (MeV)
46-Pd-98
P19
P20
P21
P22
P23
P24
P25
P26
P27

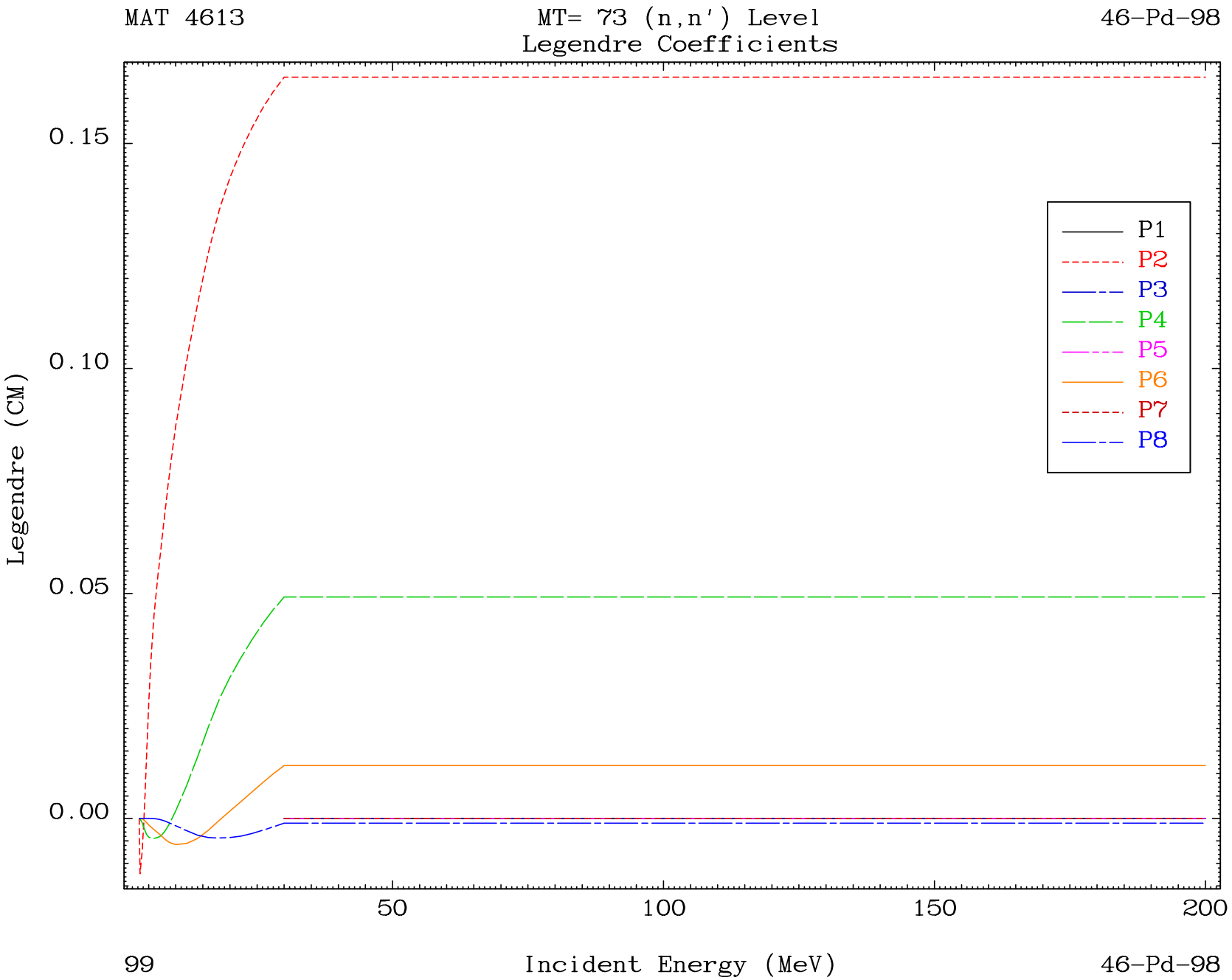

MAT 4613
MT= 71 (n,n') Level
Legendre Coefficients
46-Pd-98
X10-7
0
-1
-2
-3
-4
-5
Legendre (CM)
50
100
150
200
P28
P29
P30
P31
P32
P33
P34
94
Incident Energy (MeV)
46-Pd-98

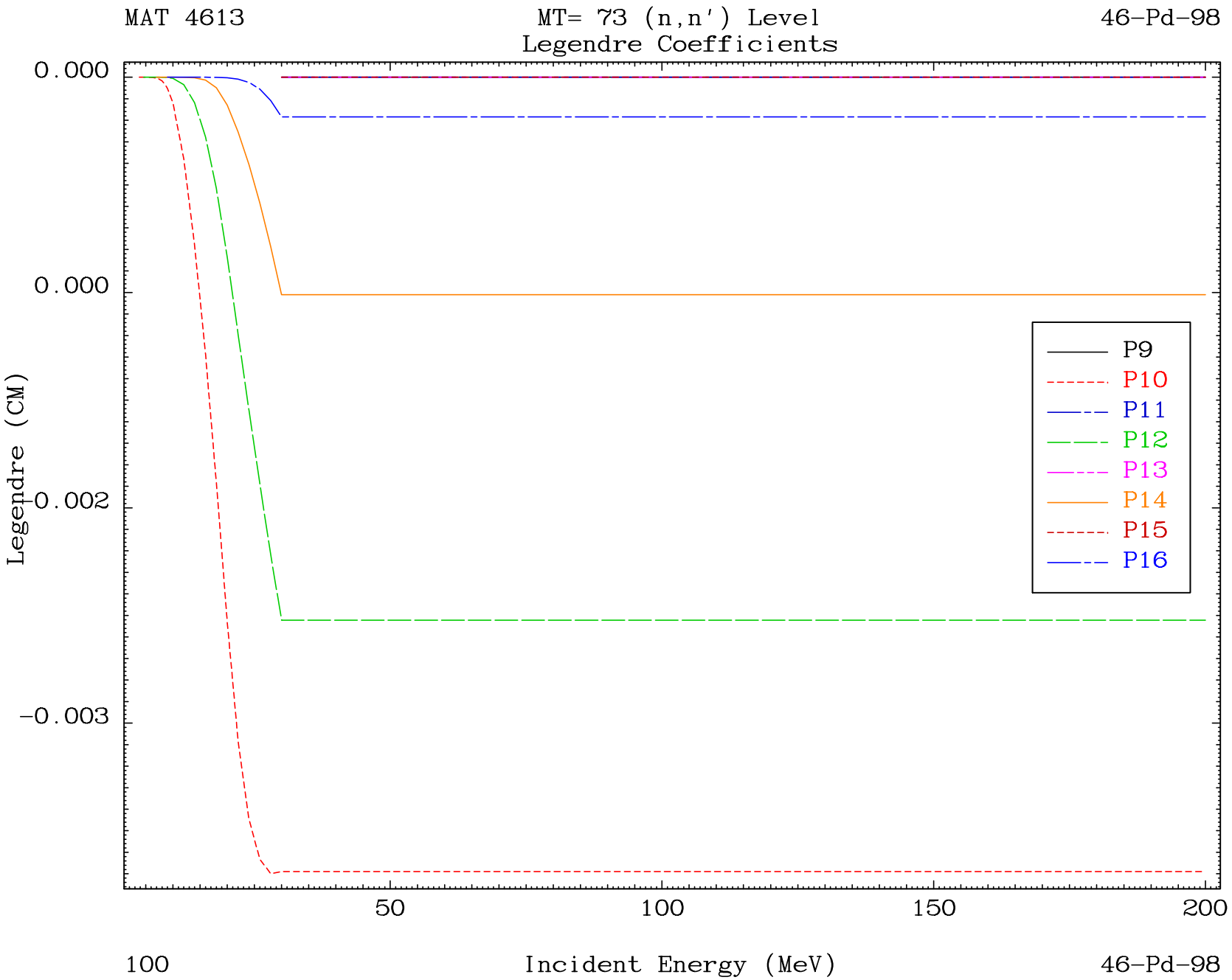

MAT 4613
MT= 72 (n,n') Level
Legendre Coefficients
46-Pd-98
Legendre (CM)
0.25
0.20
0.15
0.10
0.05
0.00
-0.05
50
100
150
200
95
Incident Energy (MeV)
46-Pd-98
P1
P2
P3
P4
P5
P6
P7
P8
P9

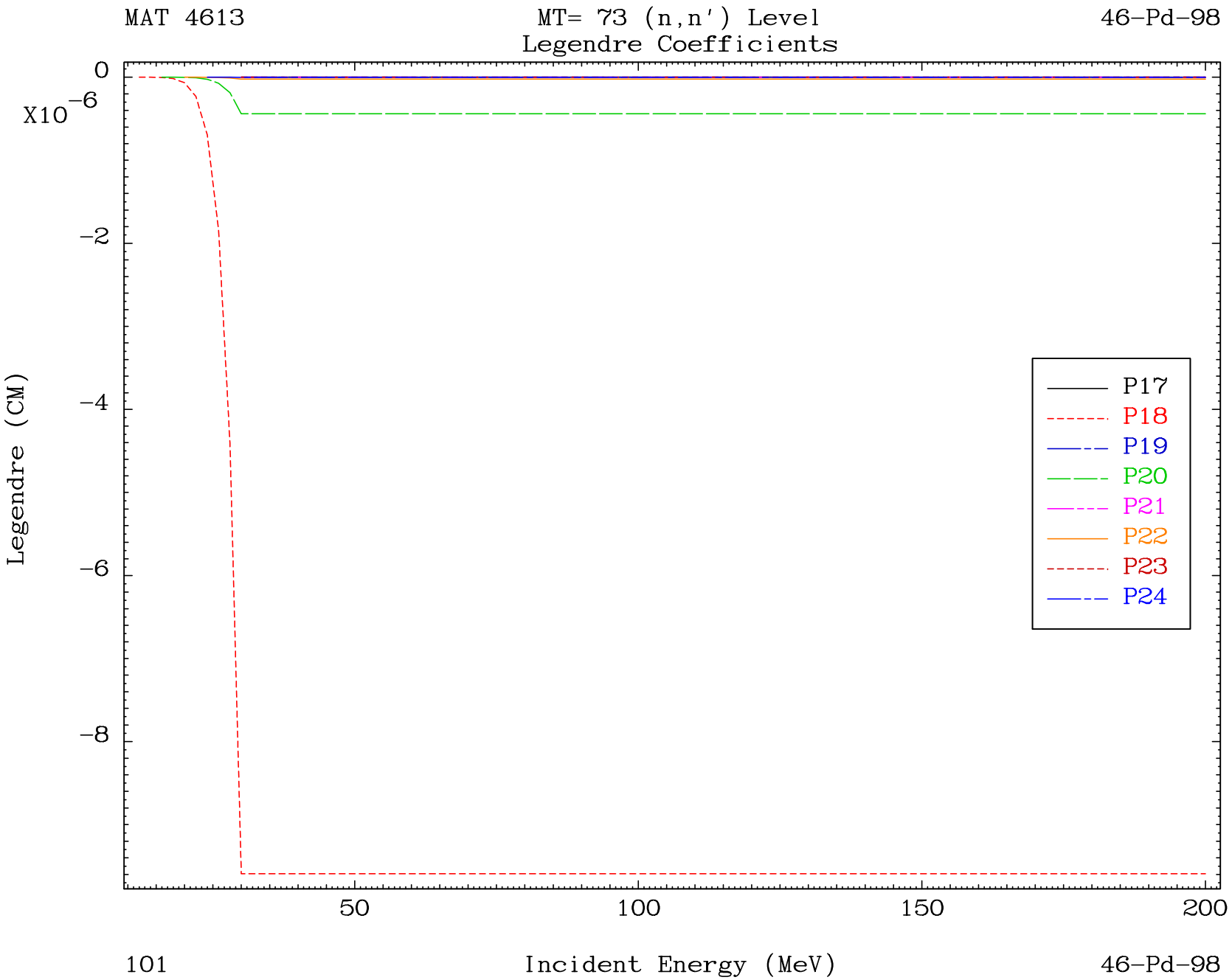

MAT 4613
MT= 72 (n,n') Level
Legendre Coefficients
46-Pd-98
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.04
0.02
0.00
-0.02
-0.04
Legendre (CM)
50
100
150
200
96
Incident Energy (MeV)
46-Pd-98

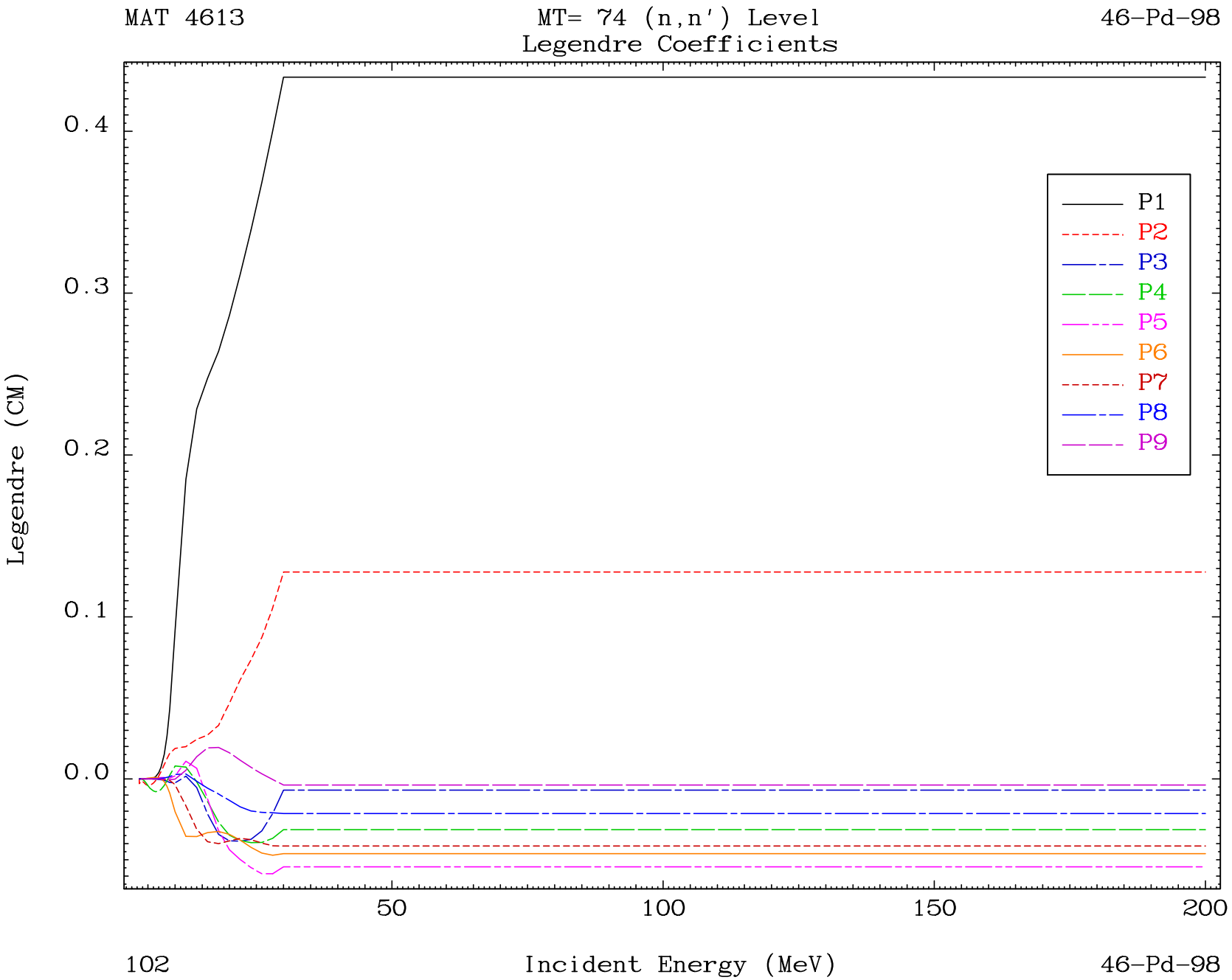

MAT 4613
MT= 72 (n,n') Level
Legendre Coefficients
46-Pd-98
0.000
0.000
-0.002
-0.003
-0.004
-0.005
Legendre (CM)
50
100
150
200
97
Incident Energy (MeV)
46-Pd-98
P19
P20
P21
P22
P23
P24
P25
P26
P27

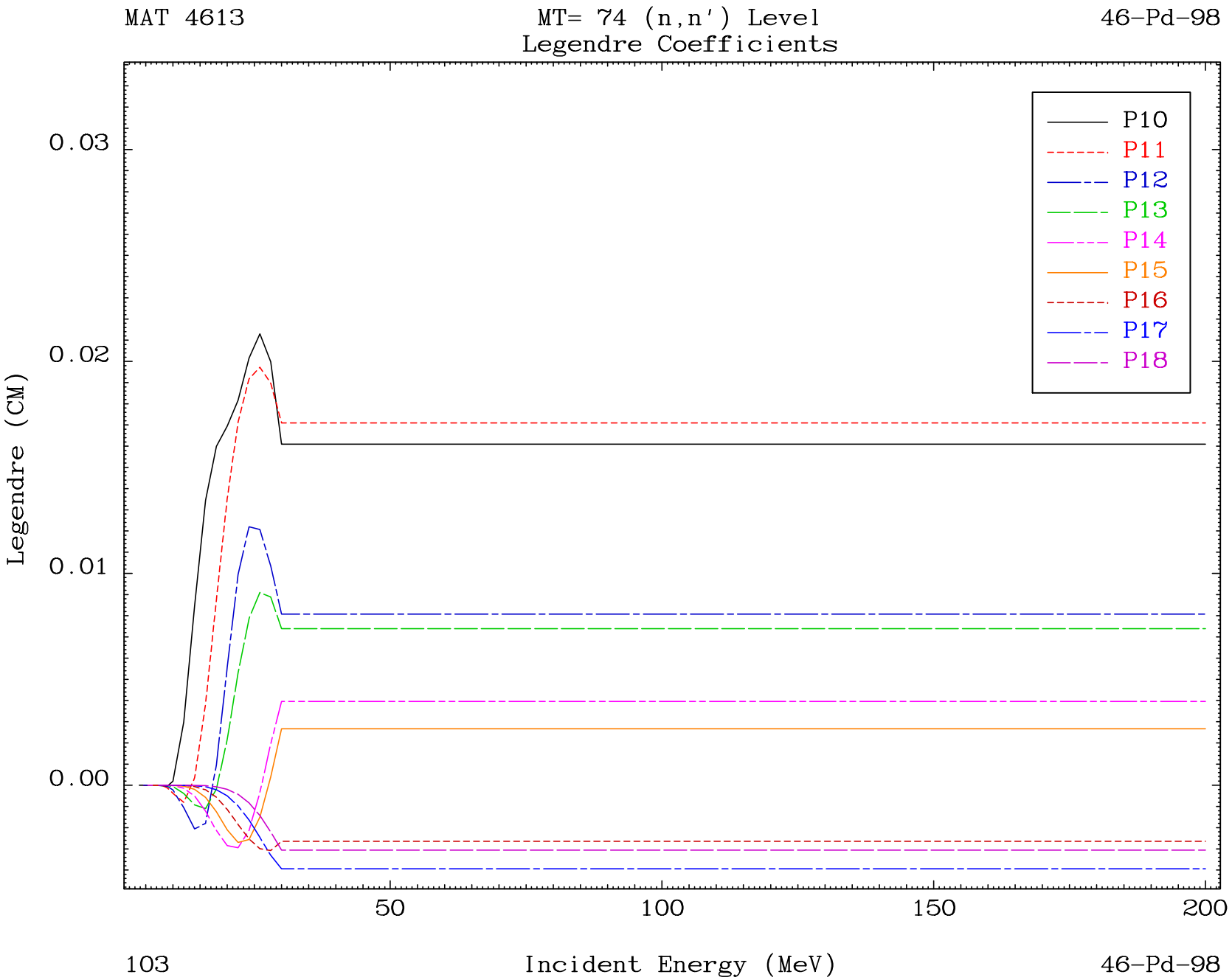

MAT 4613
MT= 72 (n,n') Level
Legendre Coefficients
46-Pd-98
0
X10-7
-2
-4
-6
-8
Legendre (CM)
50
100
150
200
98
Incident Energy (MeV)
46-Pd-98
P28
P29
P30
P31
P32
P33
P34

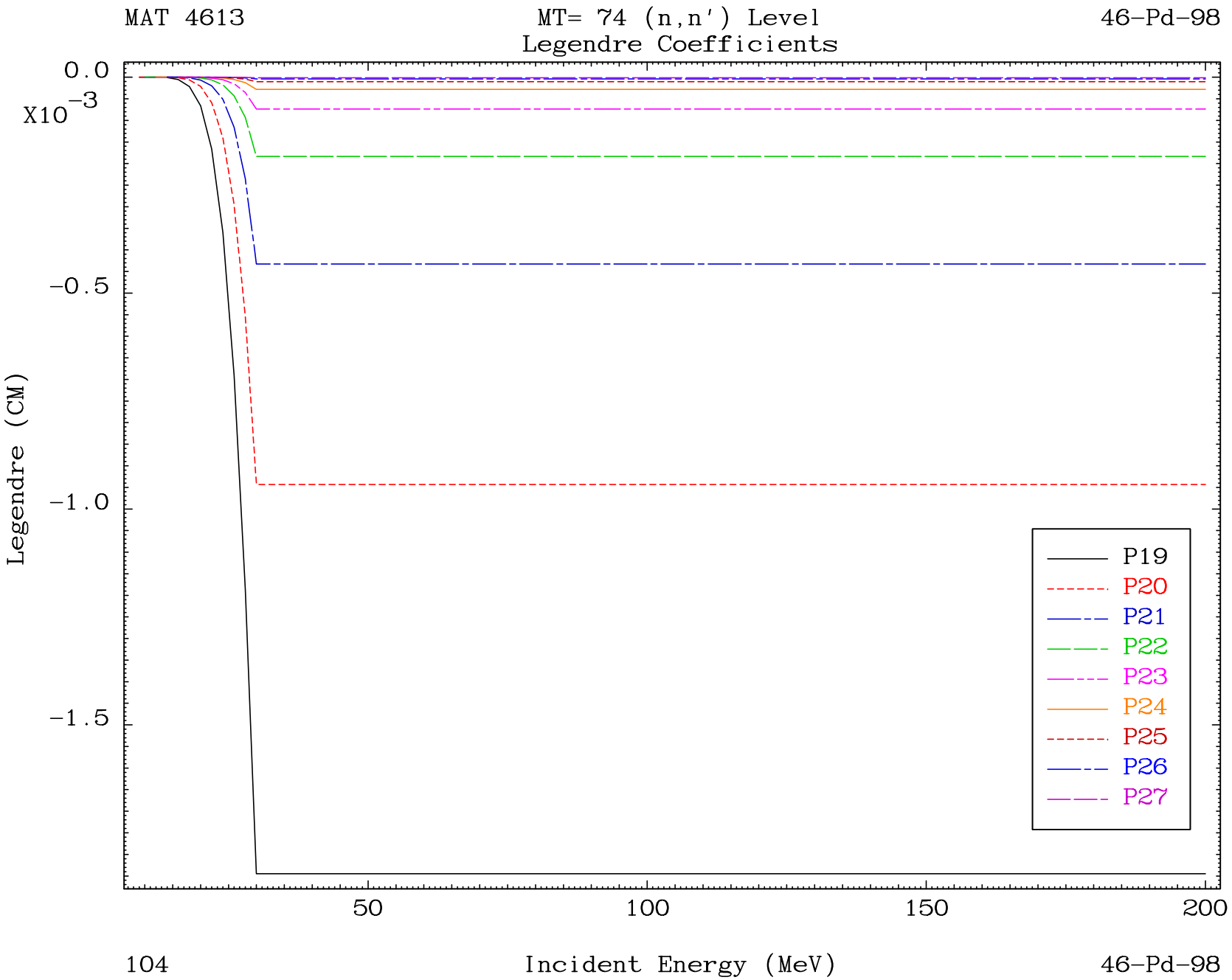

MAT 4613
MT= 73 (n,n') Level
Legendre Coefficients
46-Pd-98
0.15
0.10
0.05
0.00
Legendre (CM)
50
100
150
200
99
Incident Energy (MeV)
46-Pd-98
P1
P2
P3
P4
P5
P6
P7
P8

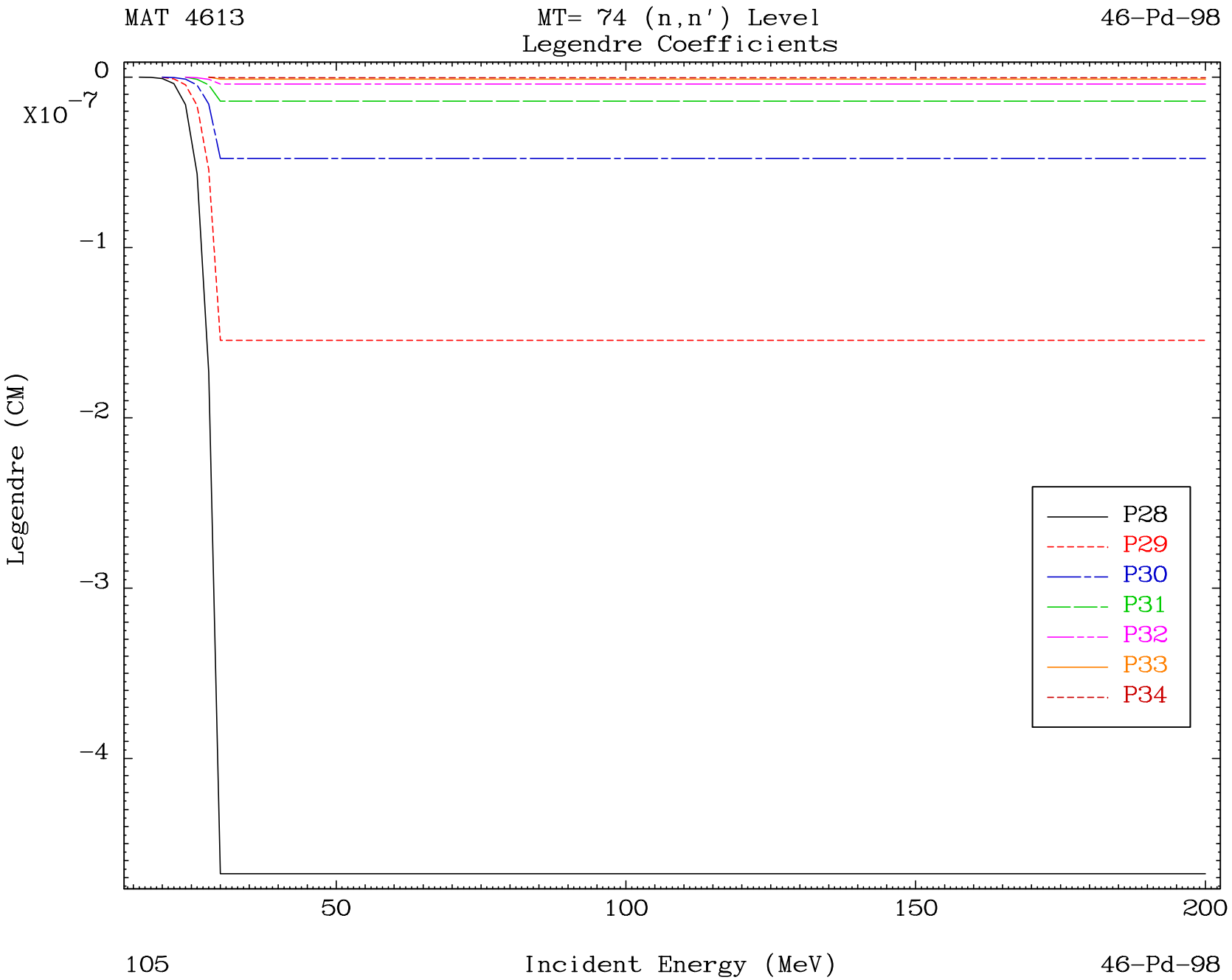

MAT 4613
MT= 73 (n,n') Level
Legendre Coefficients
46-Pd-98
0.000
0.000
-0.002
-0.003
Legendre (CM)
50
100
150
200
100
Incident Energy (MeV)
46-Pd-98
P9
P10
P11
P12
P13
P14
P15
P16

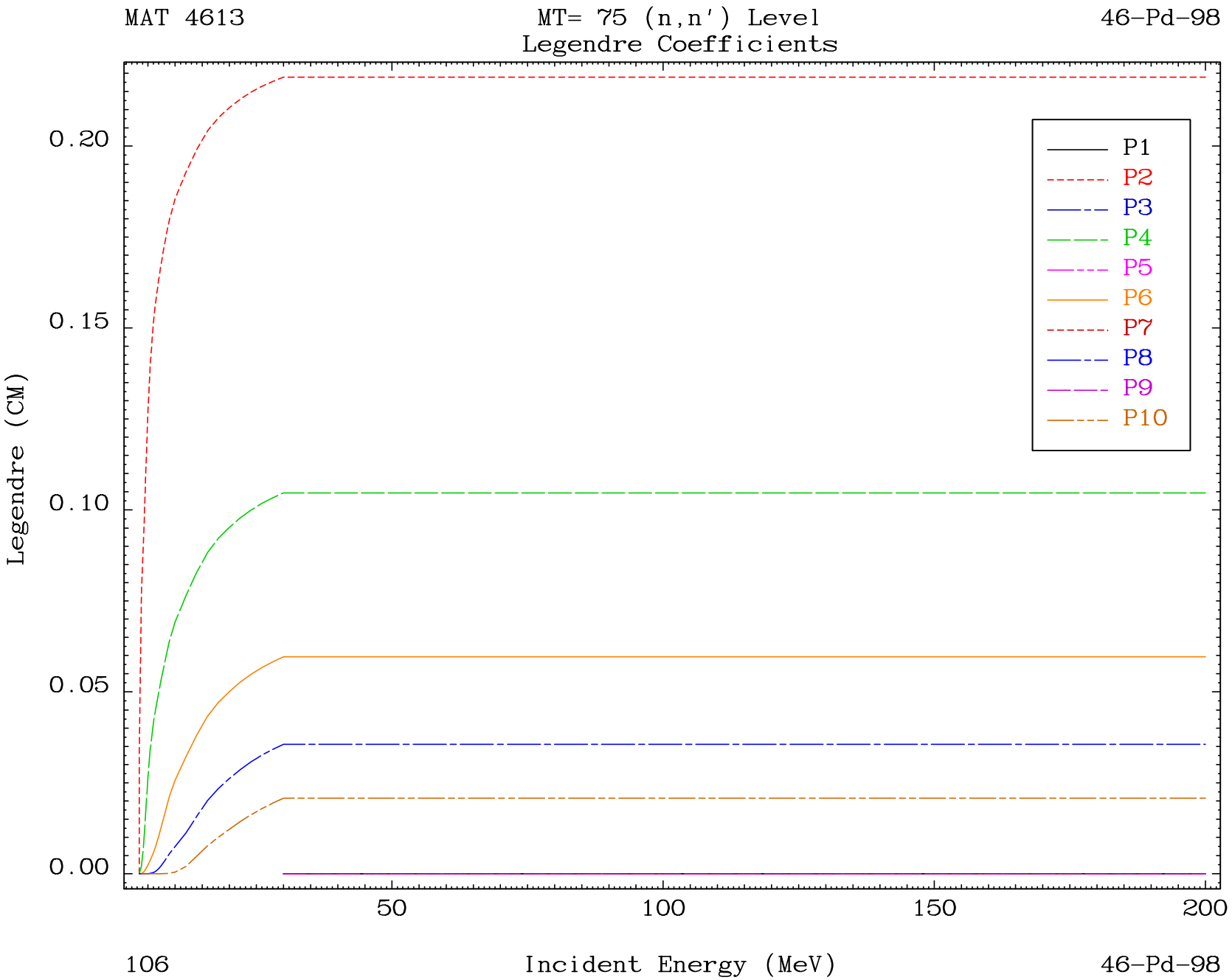

MAT 4613
MT= 73 (n,n') Level
Legendre Coefficients
46-Pd-98
0
X10^-6
-2
-4
-6
-8
Legendre (CM)
50
100
150
200
P17
P18
P19
P20
P21
P22
P23
P24
101
Incident Energy (MeV)
46-Pd-98

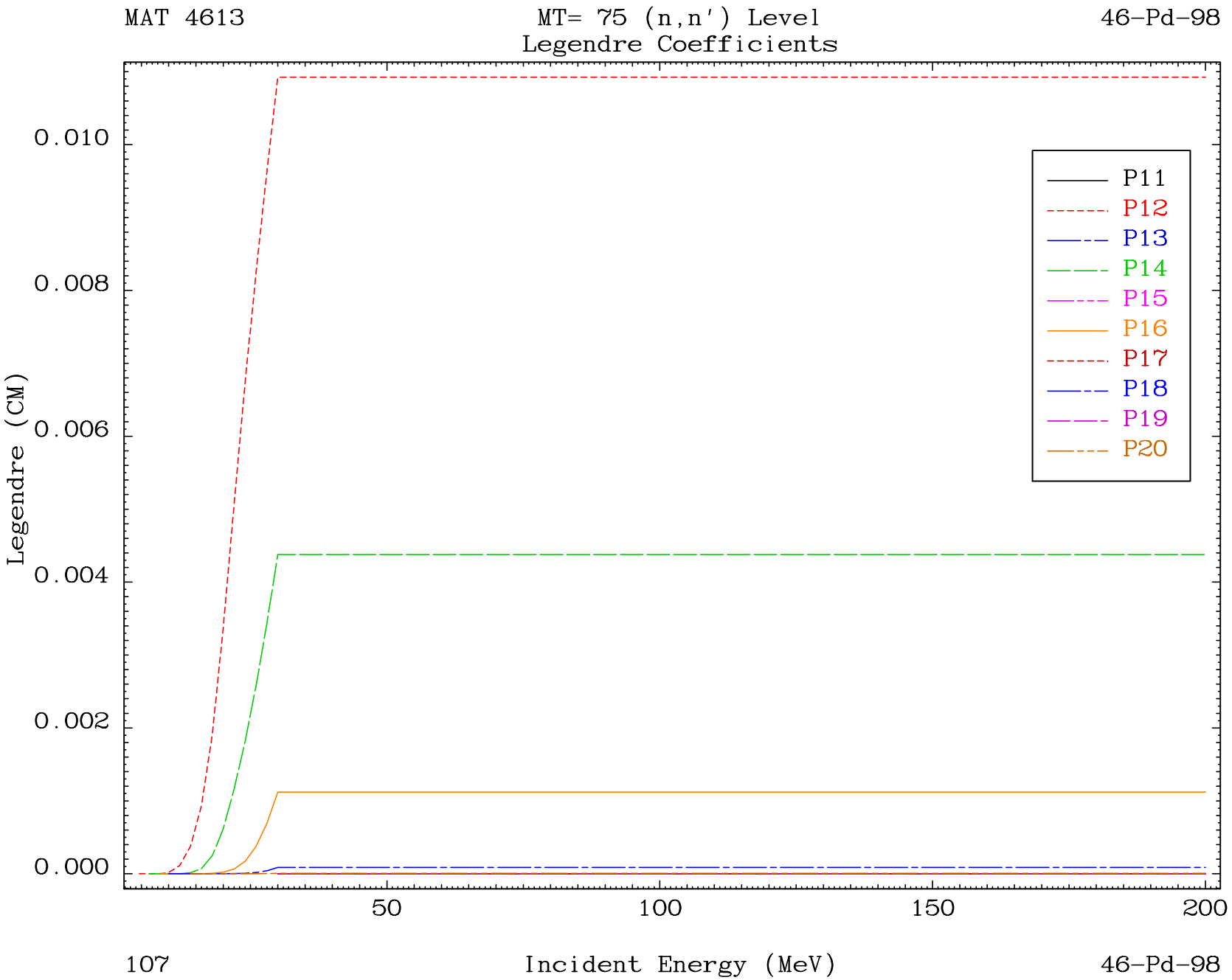

MAT 4613
MT= 74 (n,n') Level
Legendre Coefficients
46-Pd-98
0.4
0.3
0.2
0.1
0.0
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
50
100
150
200
102
Incident Energy (MeV)
46-Pd-98

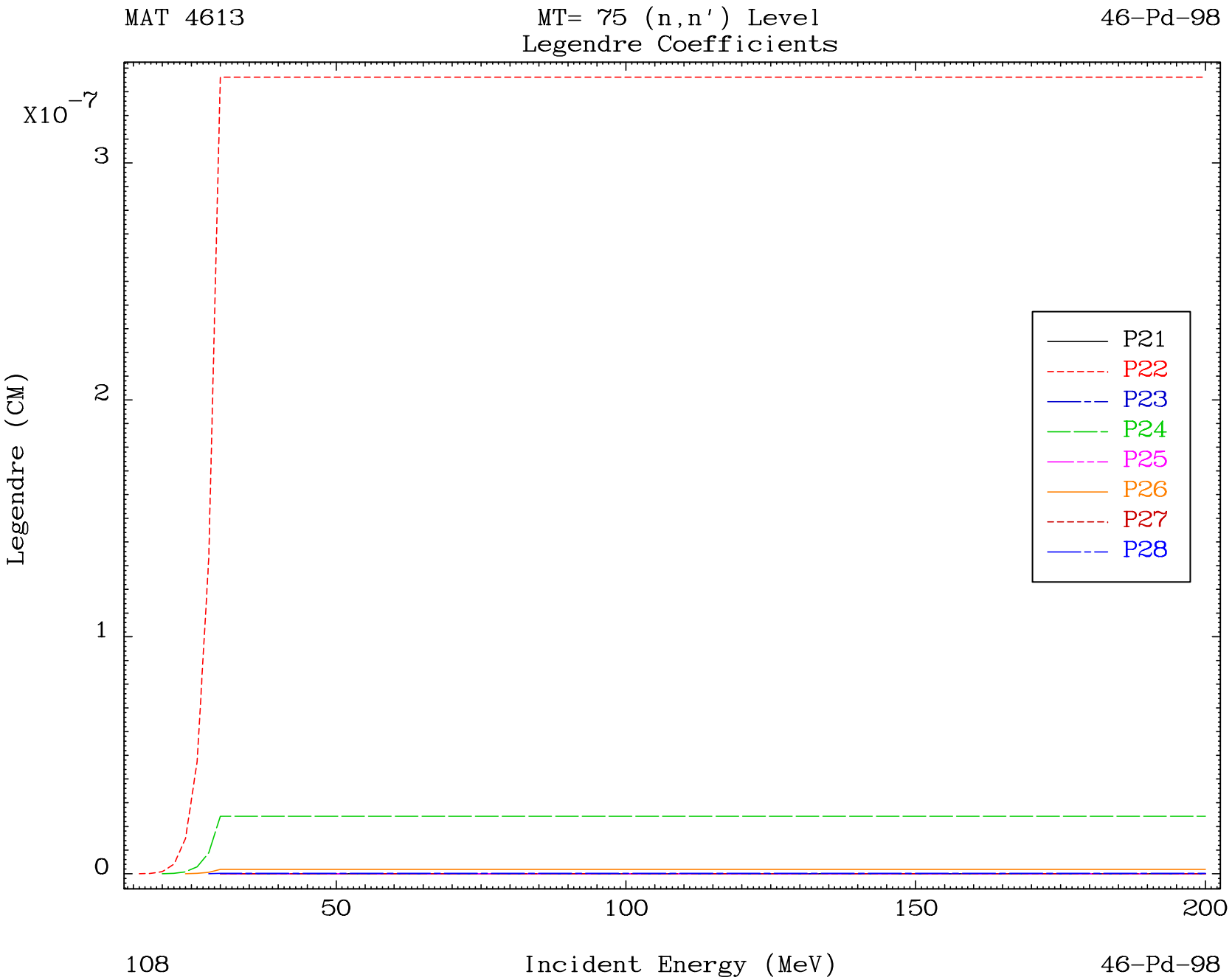

MAT 4613
MT= 74 (n,n') Level
Legendre Coefficients
46-Pd-98
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.03
0.02
0.01
0.00
Legendre (CM)
50
100
150
200
103
Incident Energy (MeV)
46-Pd-98

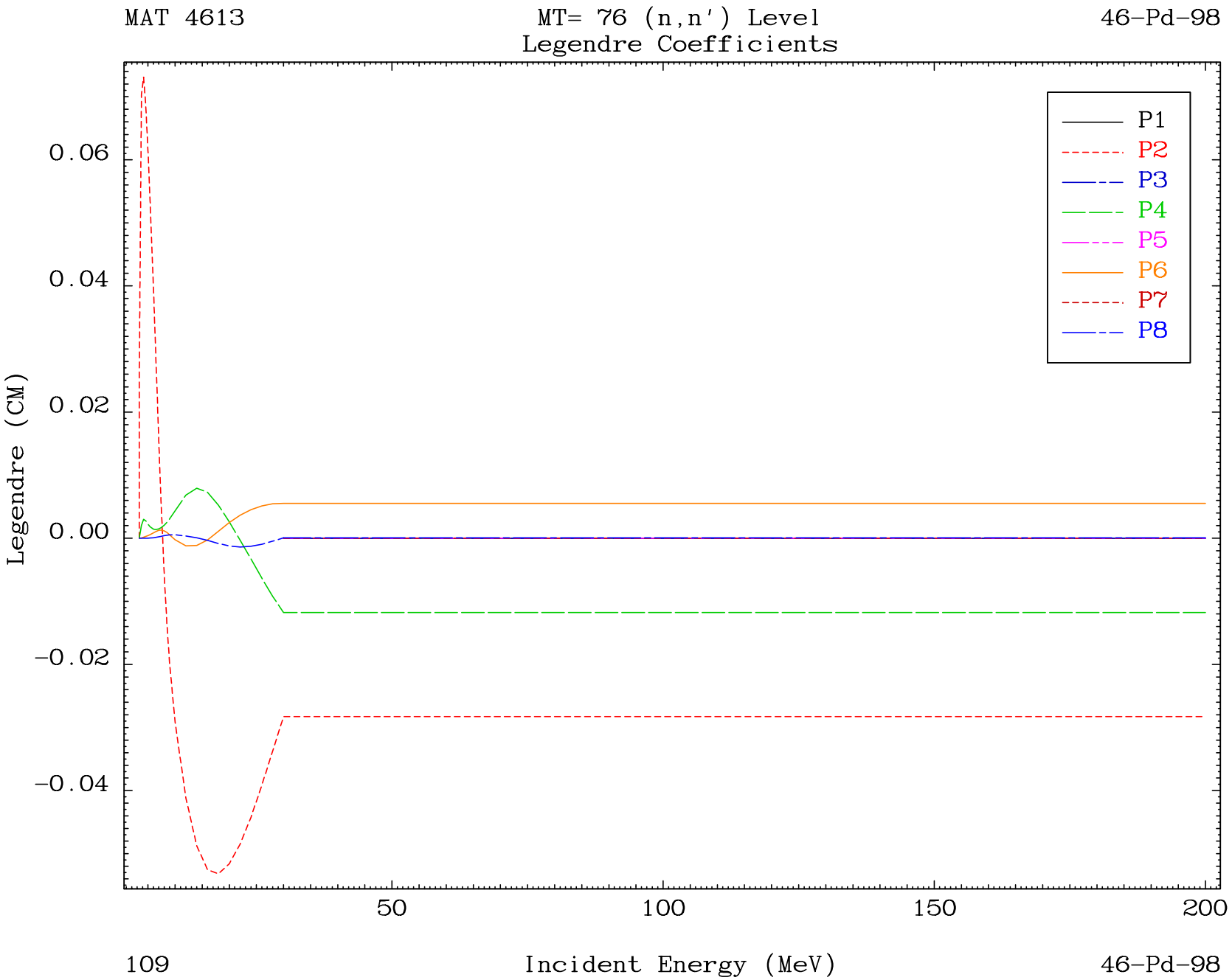

MAT 4613
MT= 74 (n,n') Level
Legendre Coefficients
46-Pd-98
0.0
X10^-3
-0.5
-1.0
-1.5
Legendre (CM)
50
100
150
200
104
Incident Energy (MeV)
46-Pd-98
P19
P20
P21
P22
P23
P24
P25
P26
P27

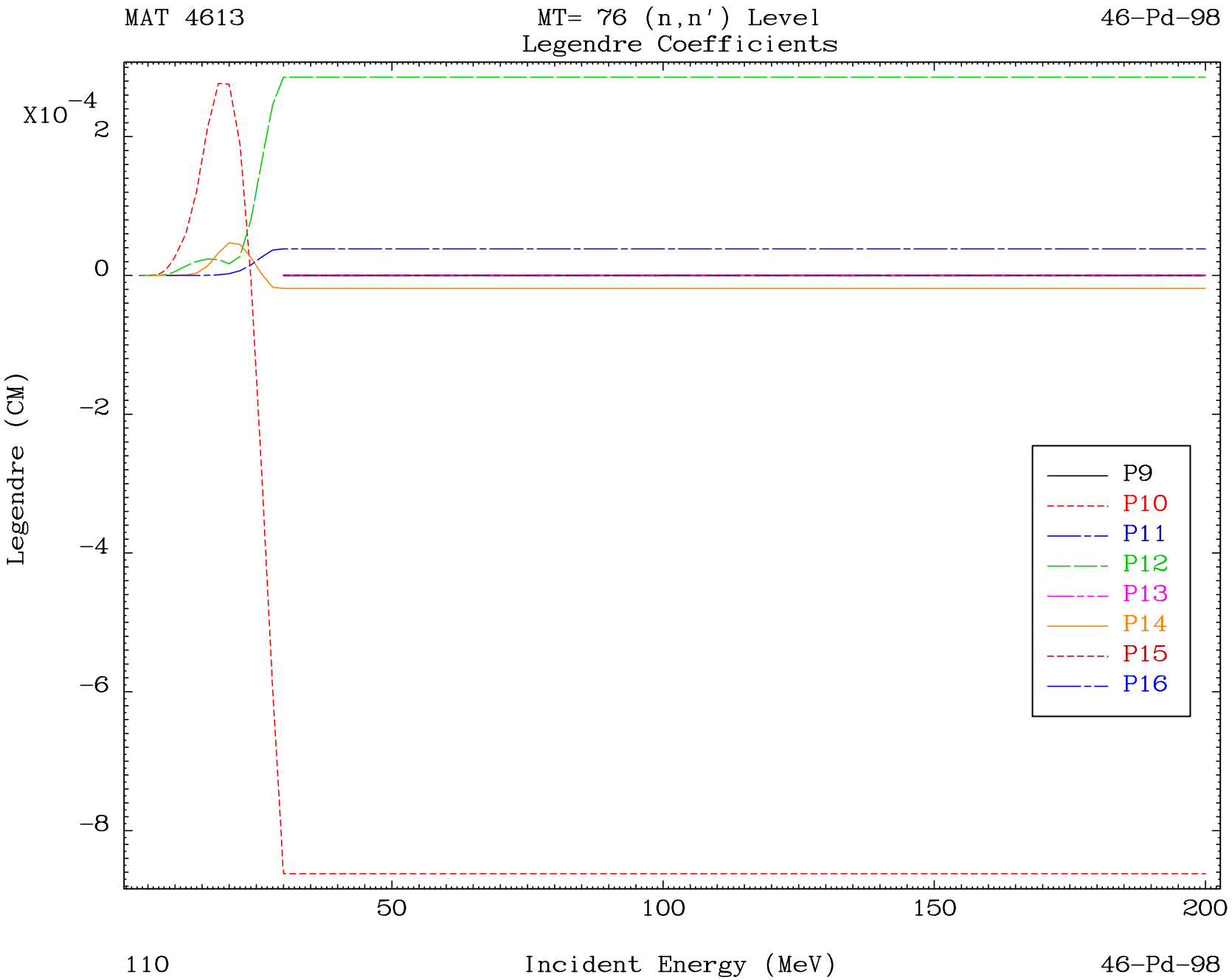

MAT 4613
MT= 74 (n,n') Level
Legendre Coefficients
46-Pd-98
0
X10-7
-1
-2
-3
-4
Legendre (CM)
50
100
150
200
105
Incident Energy (MeV)
46-Pd-98
P28
P29
P30
P31
P32
P33
P34

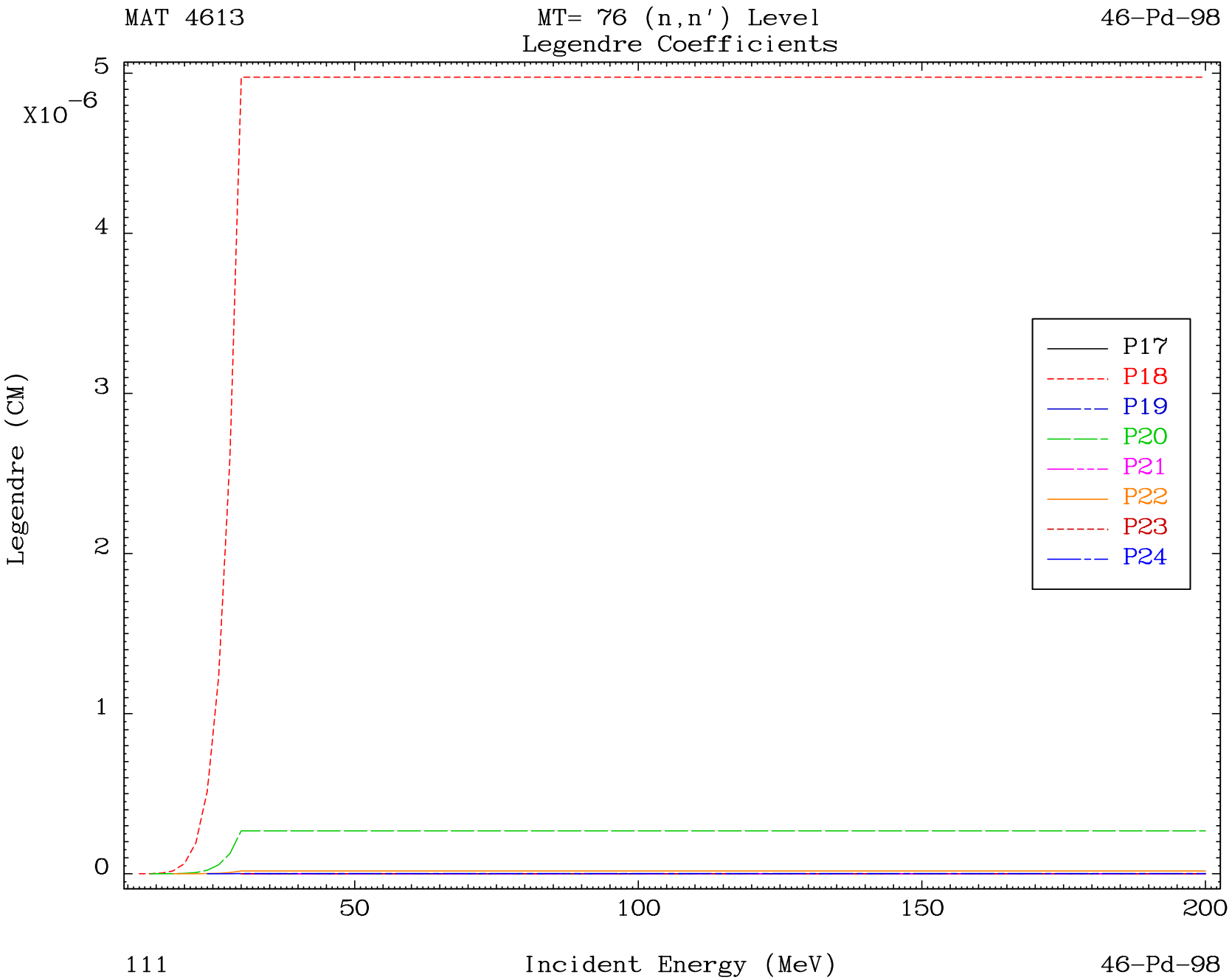

MAT 4613
MT= 75 (n,n') Level
Legendre Coefficients
46-Pd-98
0.20
0.15
0.10
0.05
0.00
Legendre (CM)
50
100
150
200
106
Incident Energy (MeV)
46-Pd-98
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10

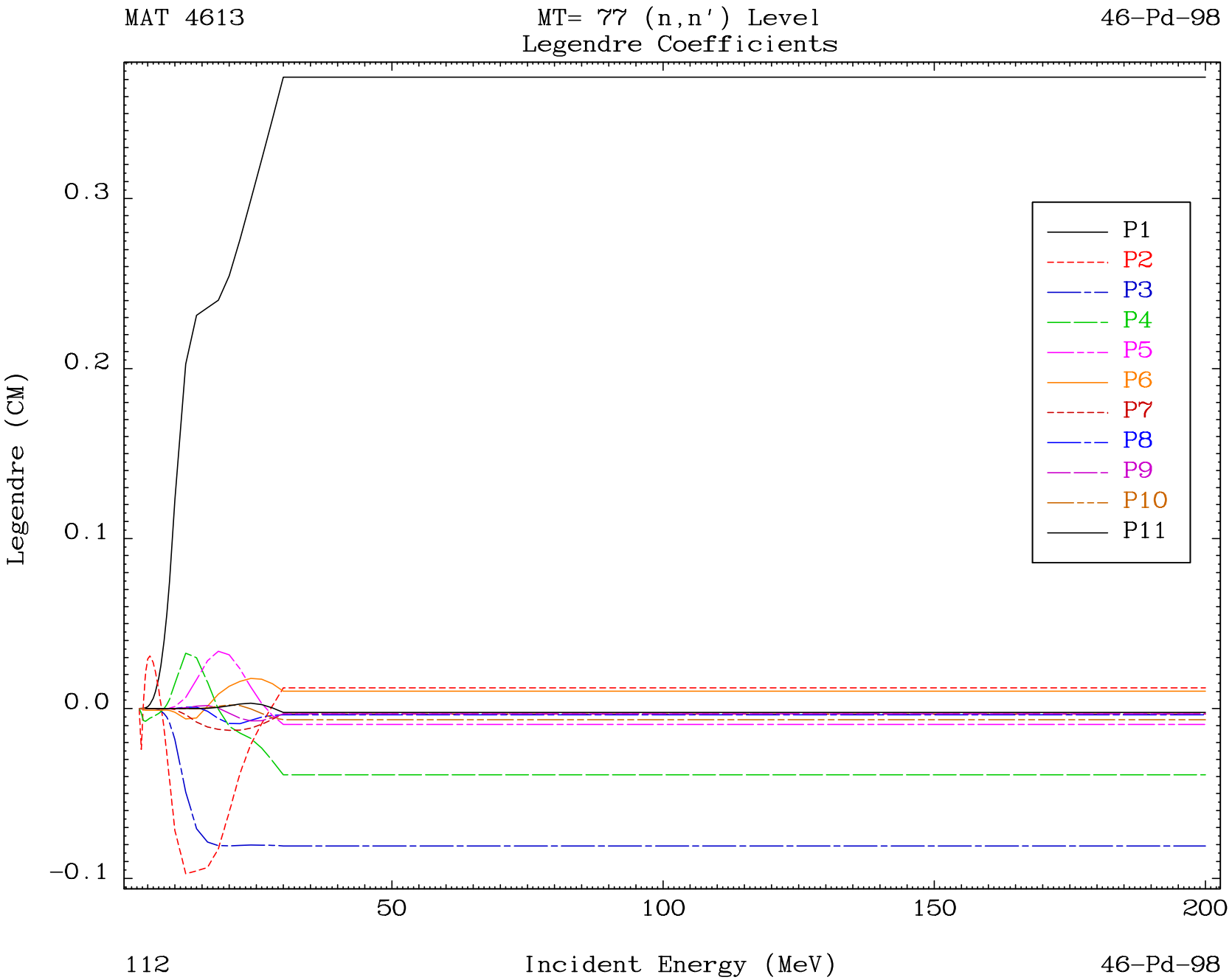

MAT 4613
MT= 75 (n,n') Level
Legendre Coefficients
46-Pd-98
0.010
0.008
0.006
0.004
0.002
0.000
Legendre (CM)
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
50
100
150
200
107
Incident Energy (MeV)
46-Pd-98

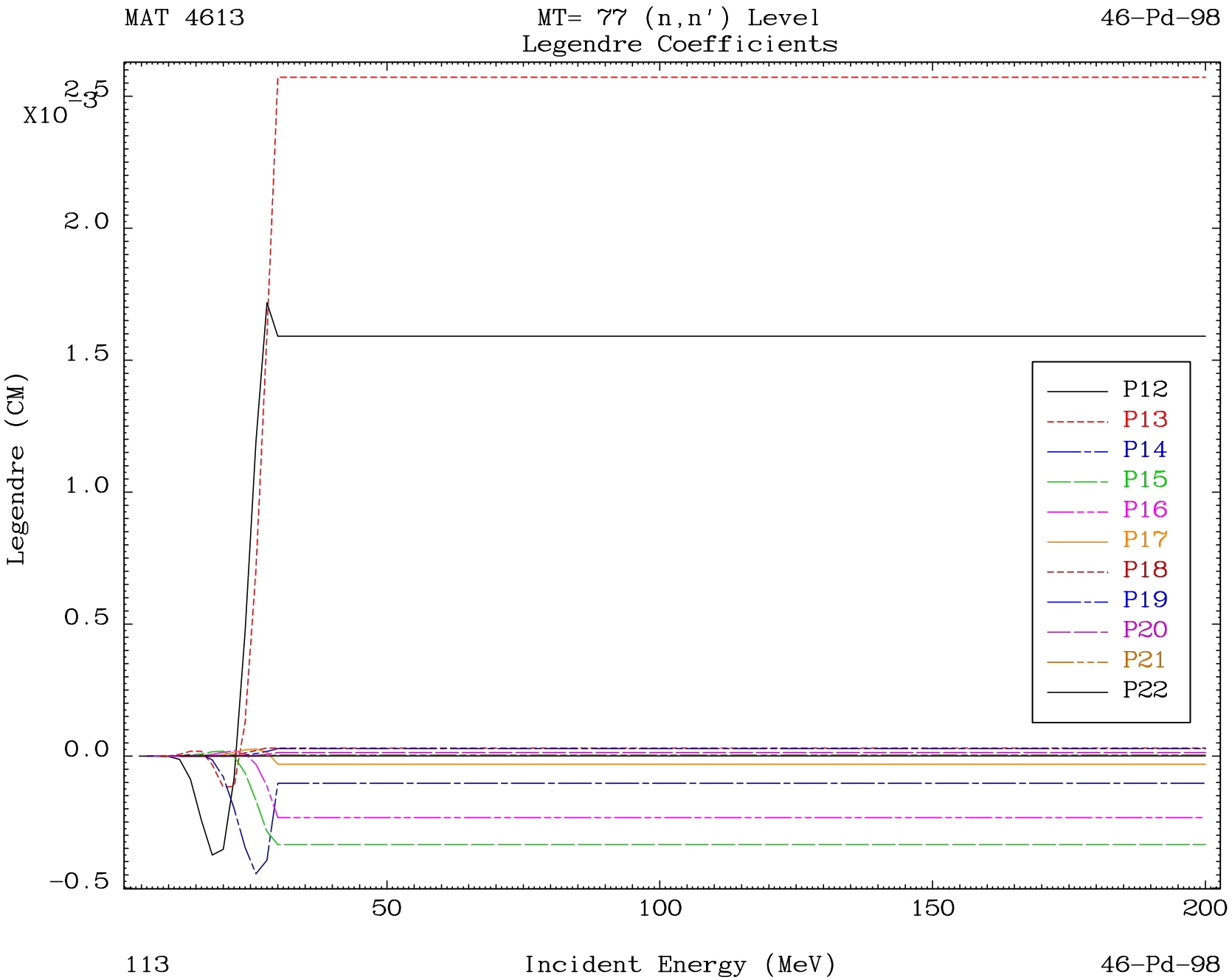

MAT 4613
MT= 75 (n,n') Level
Legendre Coefficients
46-Pd-98
X10^-7
3
2
1
0
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
50
100
150
200
108
Incident Energy (MeV)
46-Pd-98

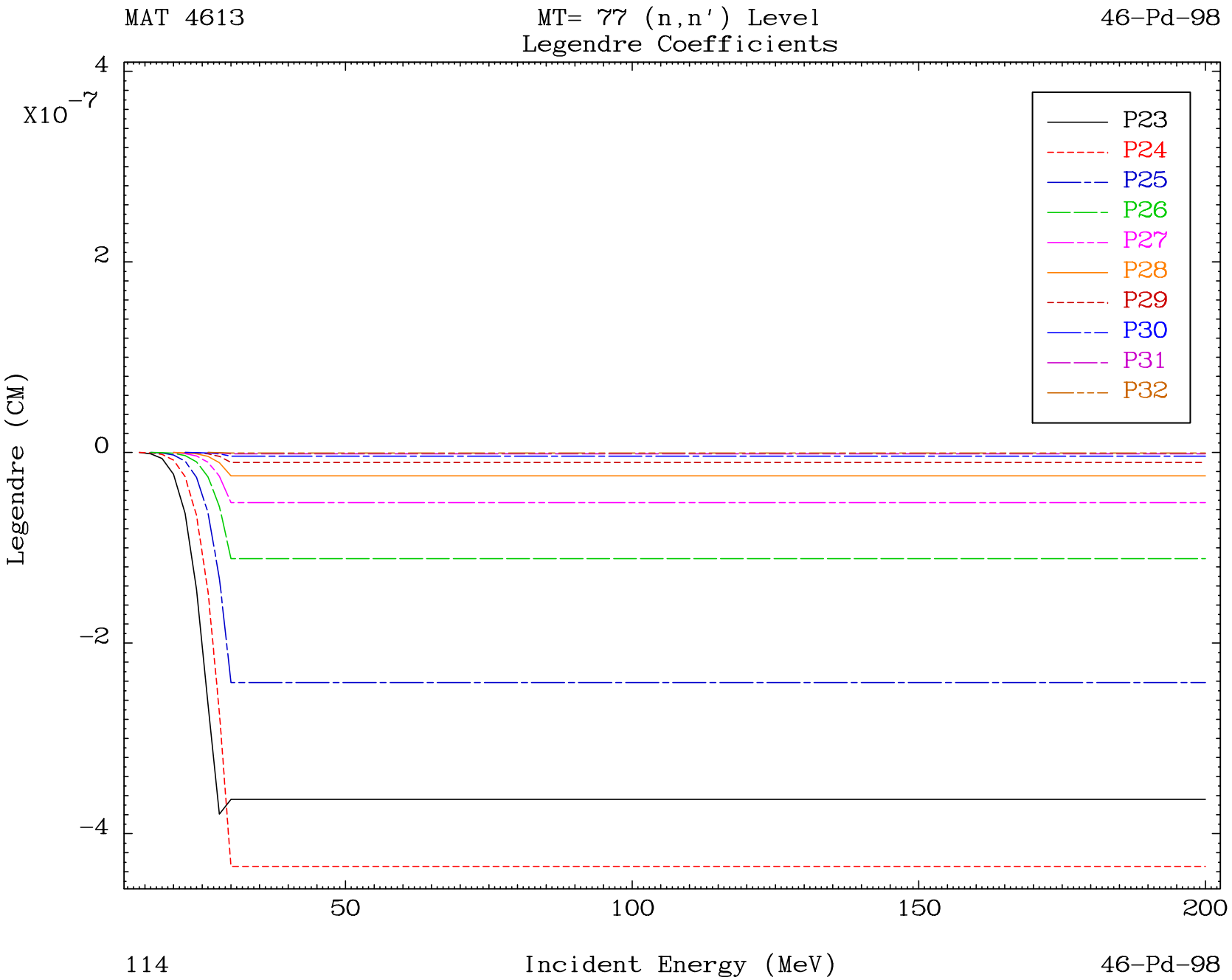

MAT 4613
MT= 76 (n,n') Level
Legendre Coefficients
46-Pd-98
P1
P2
P3
P4
P5
P6
P7
P8
0.06
0.04
0.02
0.00
-0.02
-0.04
Legendre (CM)
50
100
150
200
109
Incident Energy (MeV)
46-Pd-98

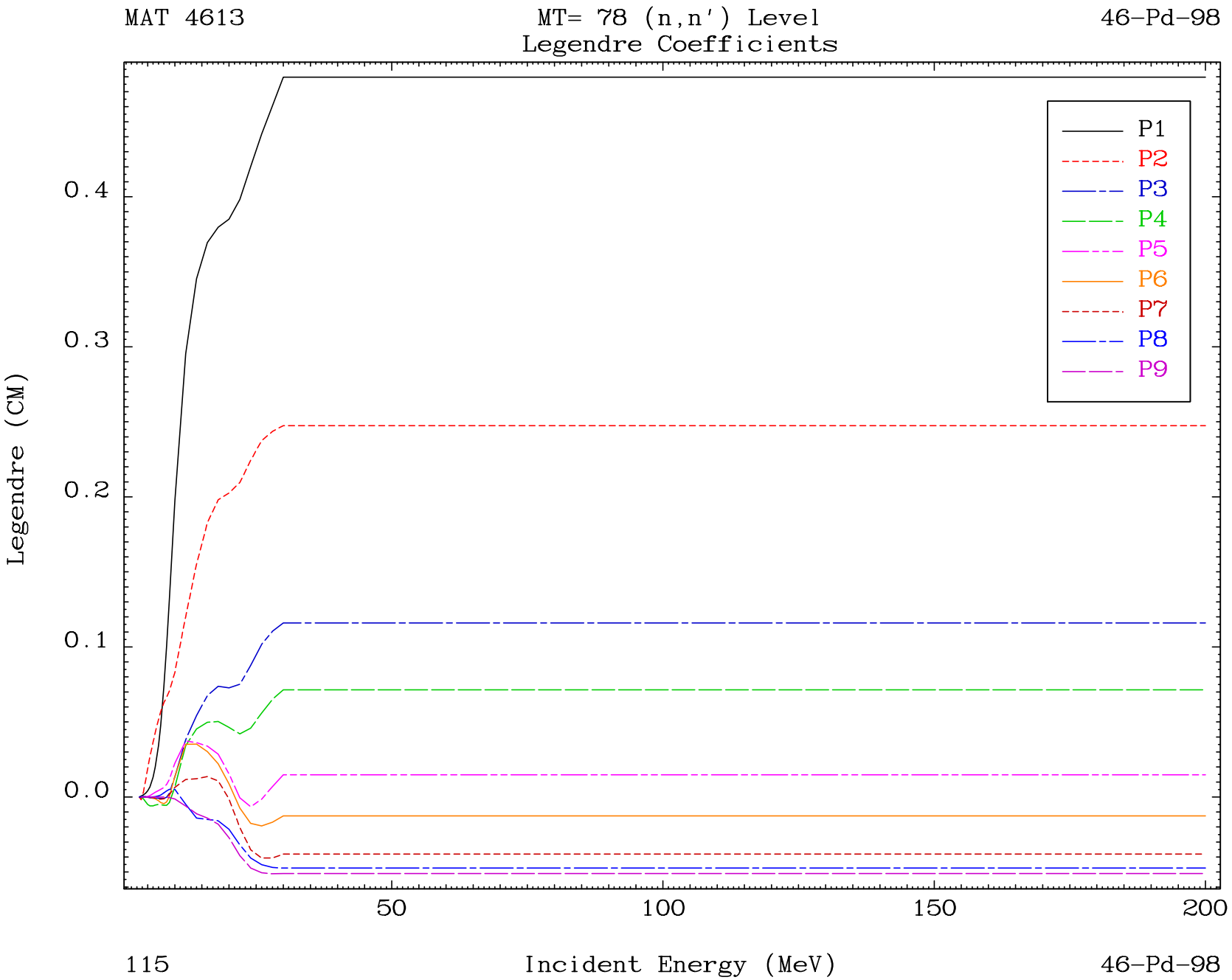

MAT 4613
MT= 76 (n,n') Level
Legendre Coefficients
46-Pd-98
X10 -4
2
0
-2
-4
-6
-8
Legendre (CM)
50
100
150
200
110
Incident Energy (MeV)
46-Pd-98
P9
P10
P11
P12
P13
P14
P15
P16

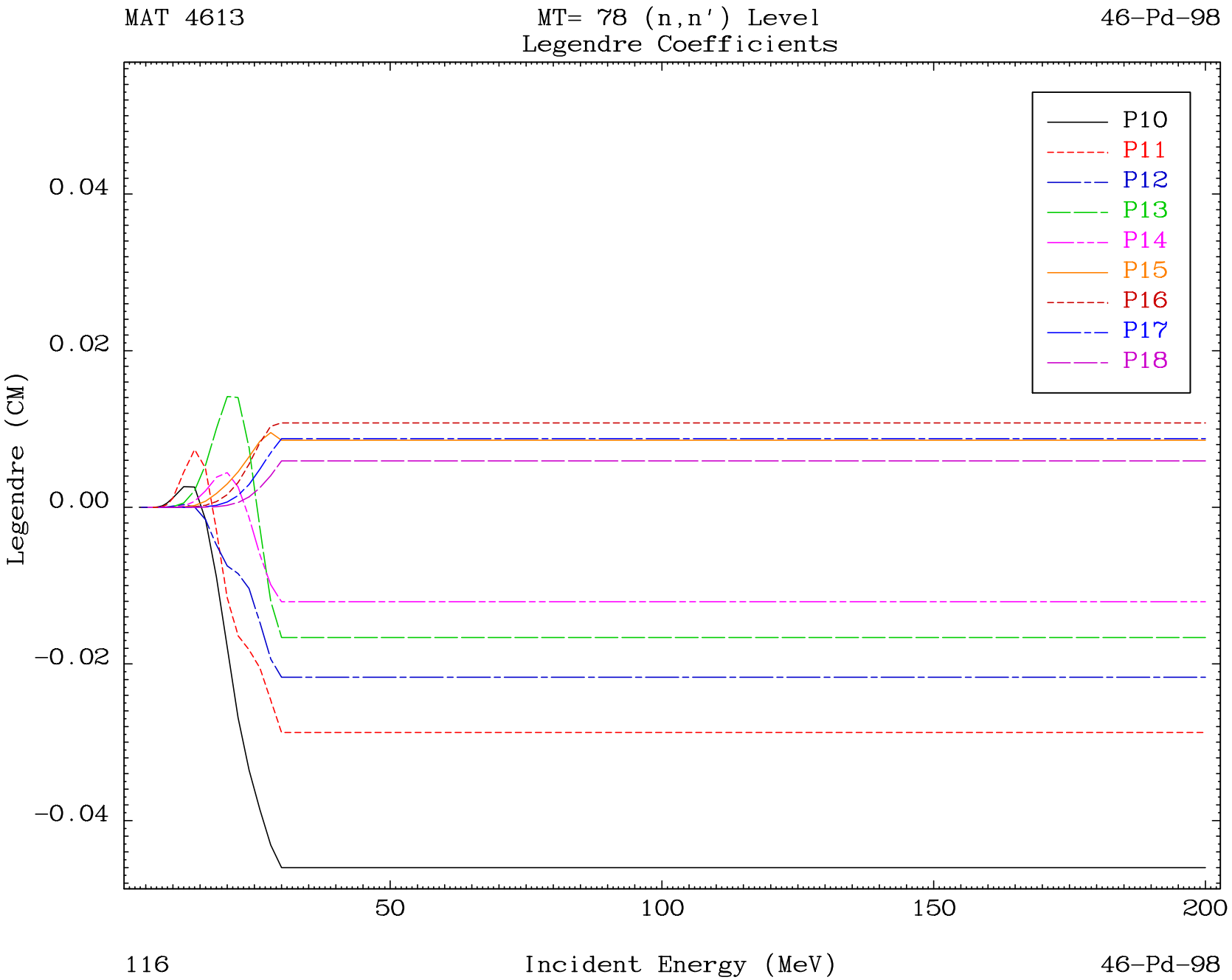

MAT 4613
MT= 76 (n,n') Level
Legendre Coefficients
46-Pd-98
X10^-6
5
4
3
2
1
0
Legendre (CM)
50
100
150
200
111
Incident Energy (MeV)
46-Pd-98
P17
P18
P19
P20
P21
P22
P23
P24

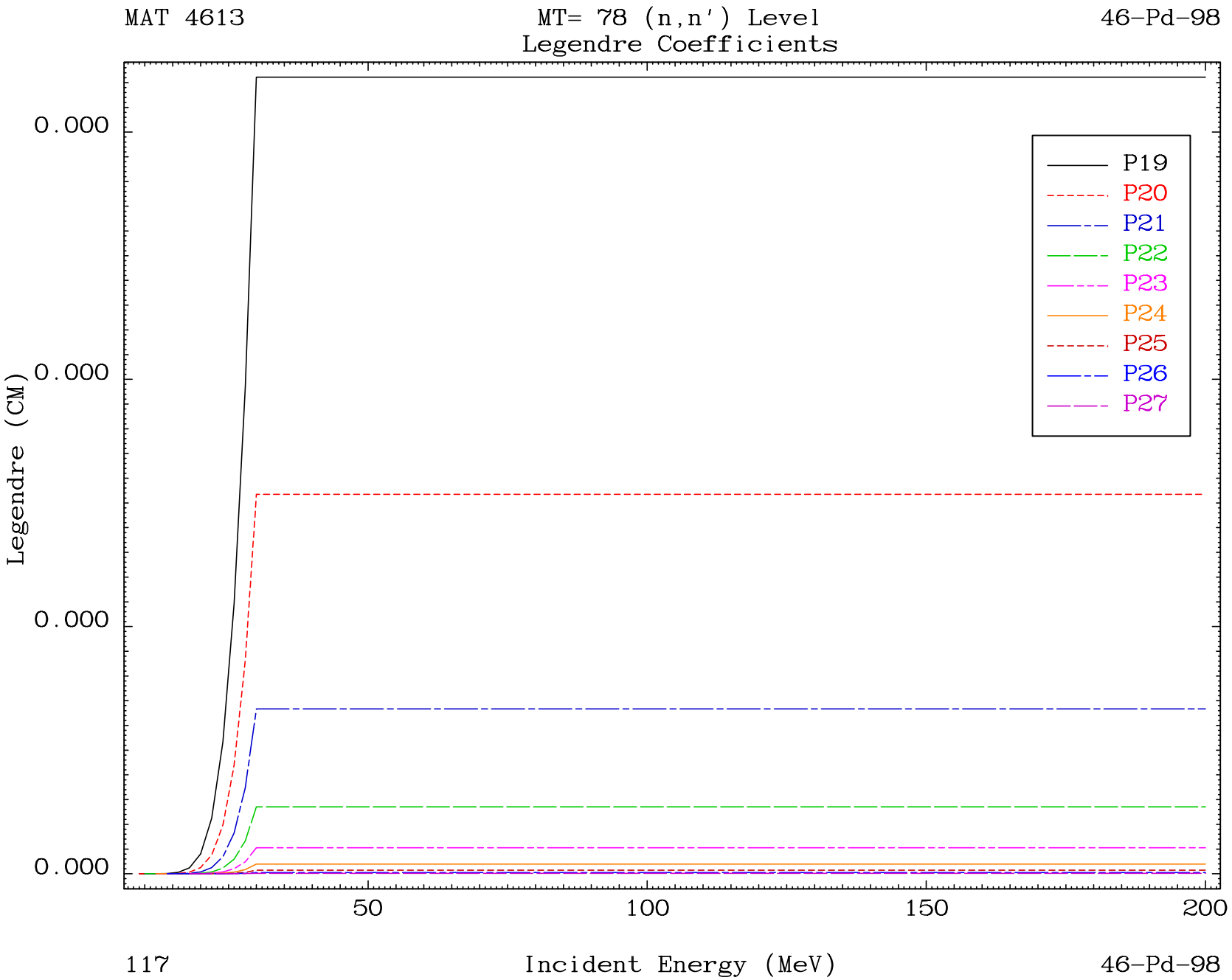

MAT 4613
MT= 77 (n,n') Level
Legendre Coefficients
46-Pd-98
Legendre (CM)
0.3
0.2
0.1
0.0
-0.1
50
100
150
200
112
Incident Energy (MeV)
46-Pd-98
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11

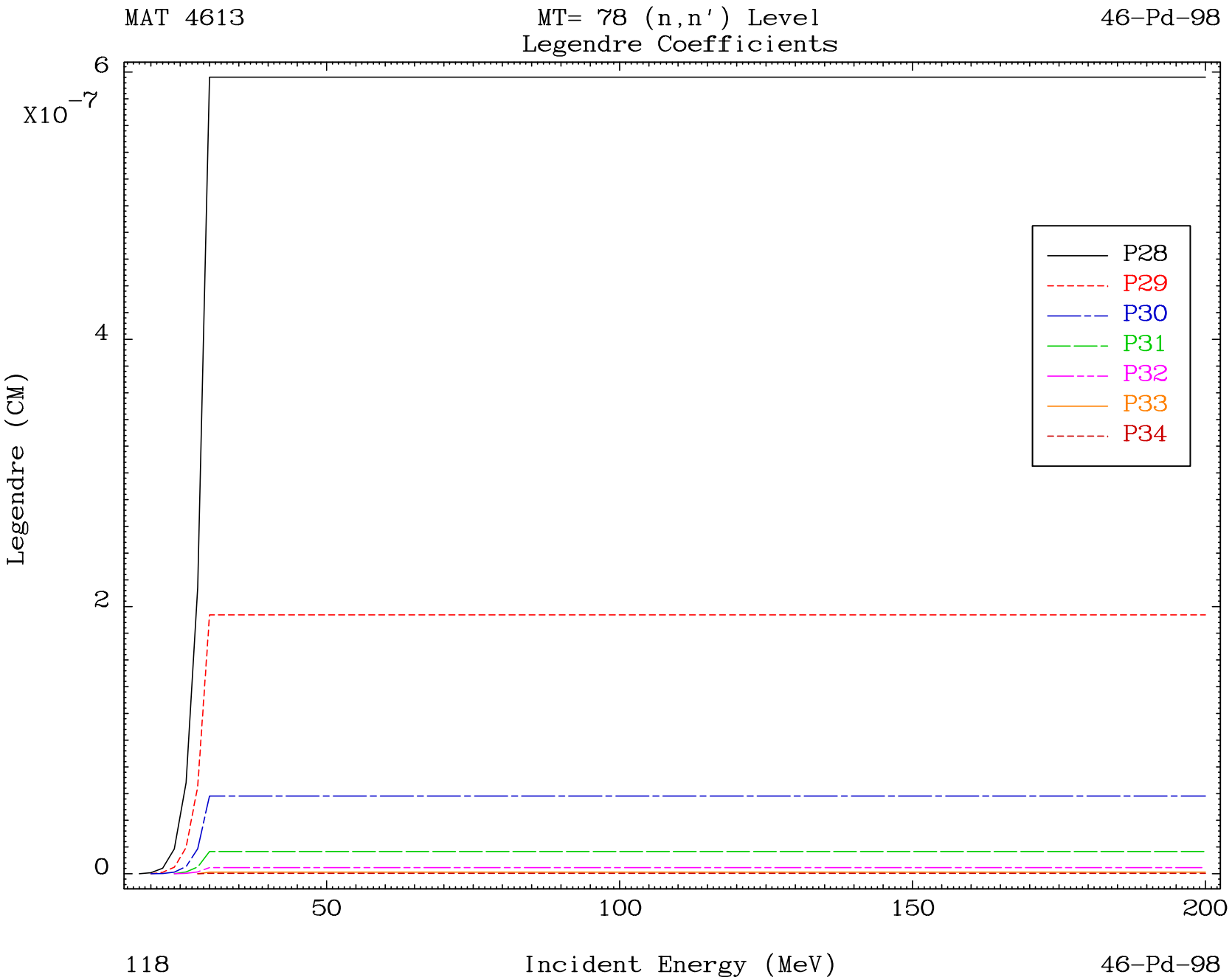

MAT 4613
MT= 77 (n,n') Level
Legendre Coefficients
46-Pd-98
X10-3
2.5
2.0
1.5
1.0
0.5
0.0
-0.5
Legendre (CM)
50
100
150
200
Incident Energy (MeV)
113
46-Pd-98
P12
P13
P14
P15
P16
P17
P18
P19
P20
P21
P22

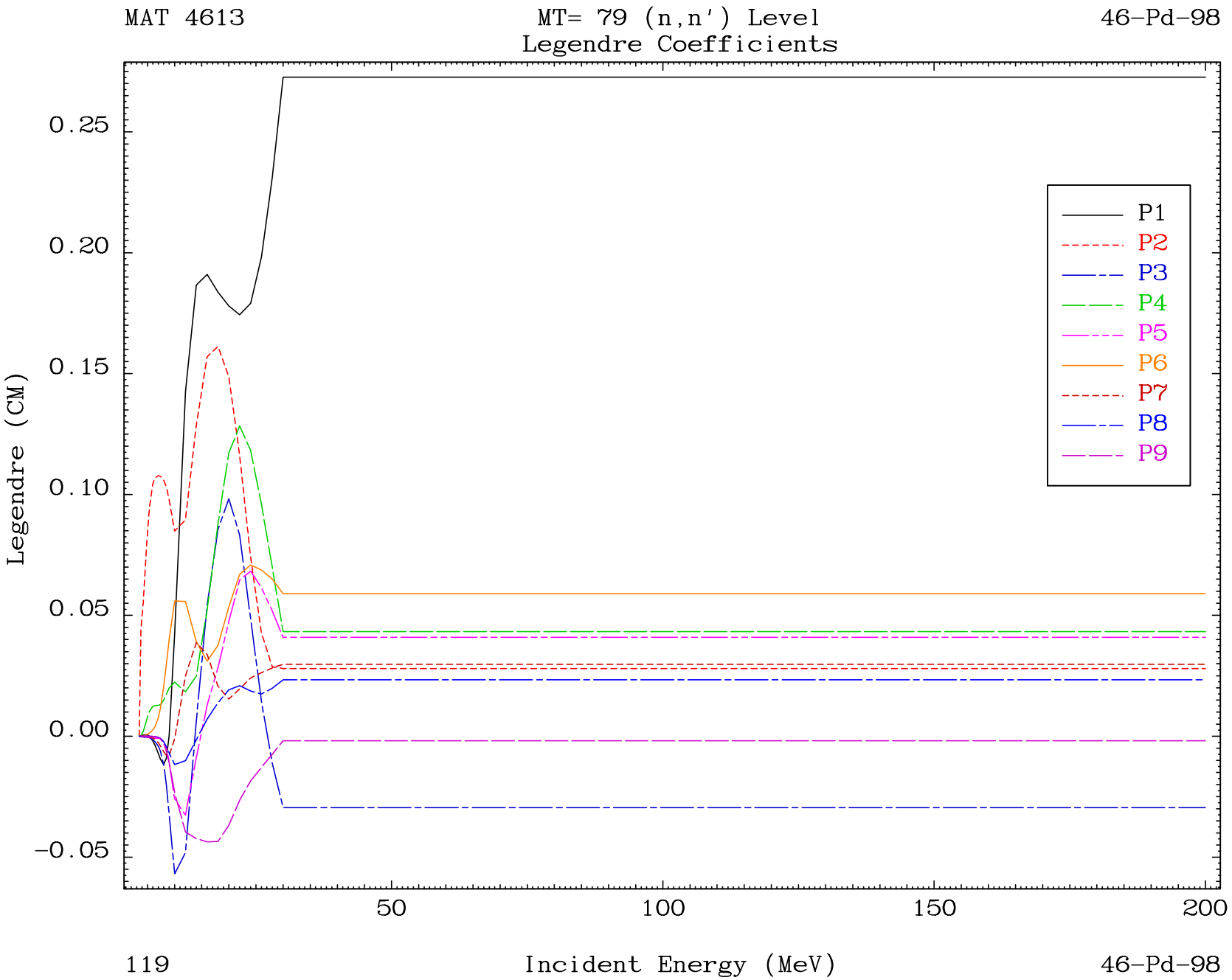

MAT 4613
MT= 77 (n,n') Level
Legendre Coefficients
46-Pd-98
X10-7
4
2
0
-2
-4
Legendre (CM)
P23
P24
P25
P26
P27
P28
P29
P30
P31
P32
50
100
150
200
114
Incident Energy (MeV)
46-Pd-98

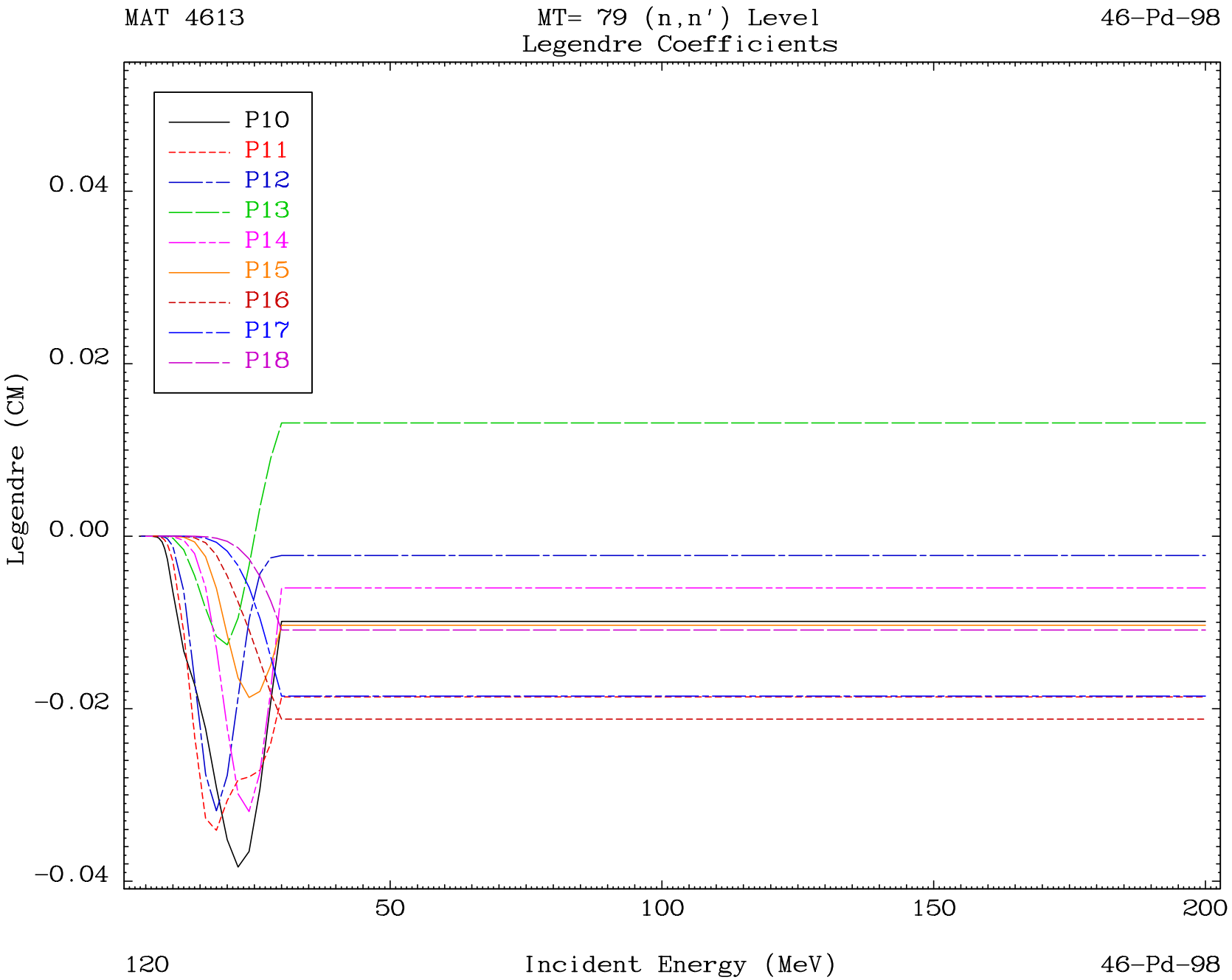

MAT 4613
MT= 78 (n,n') Level
Legendre Coefficients
46-Pd-98
P1
P2
P3
P4
P5
P6
P7
P8
P9
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
50
100
150
200
115
Incident Energy (MeV)
46-Pd-98

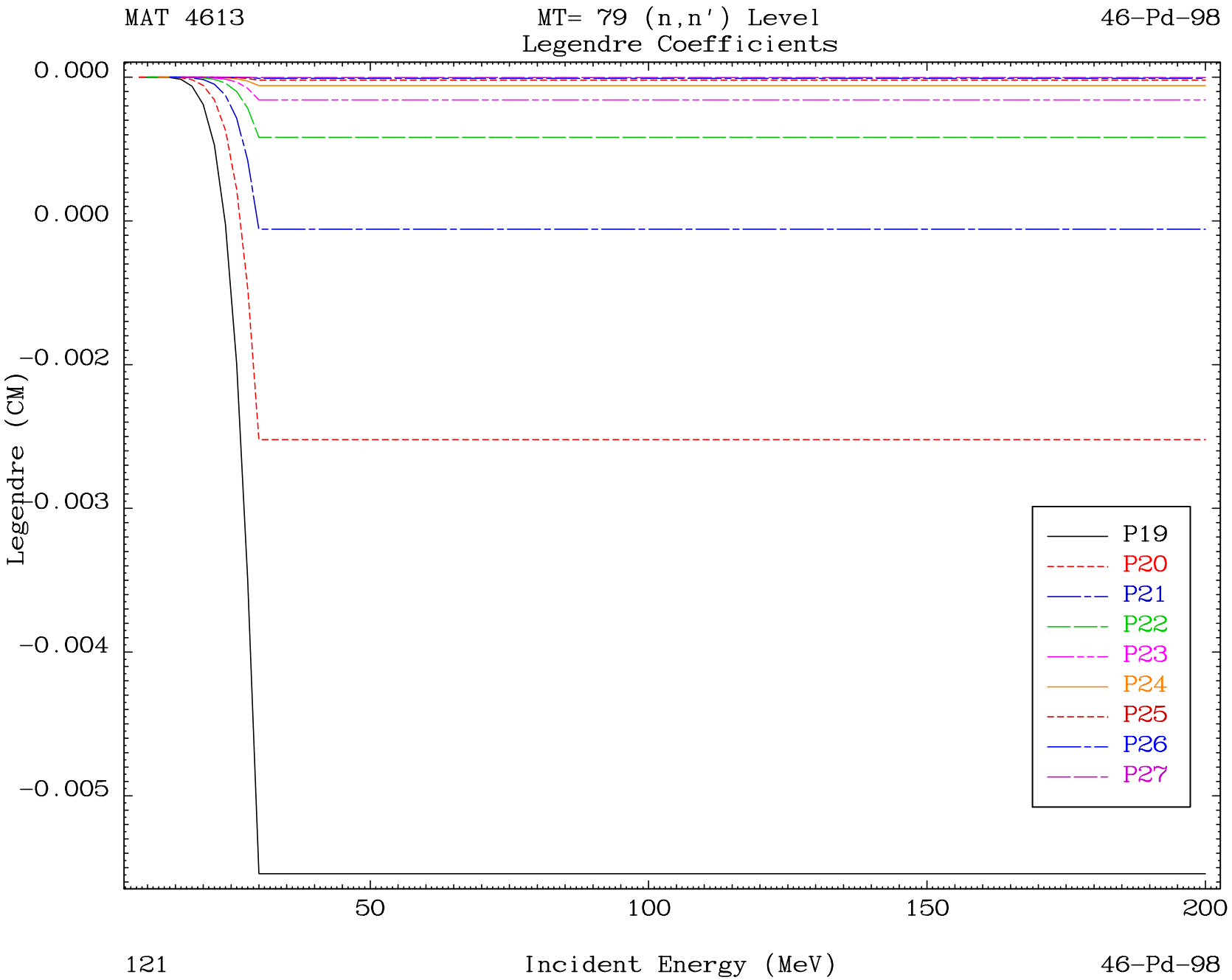

MAT 4613
MT= 78 (n,n') Level
Legendre Coefficients
46-Pd-98
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.04
0.02
0.00
-0.02
-0.04
Legendre (CM)
50
100
150
200
116
Incident Energy (MeV)
46-Pd-98

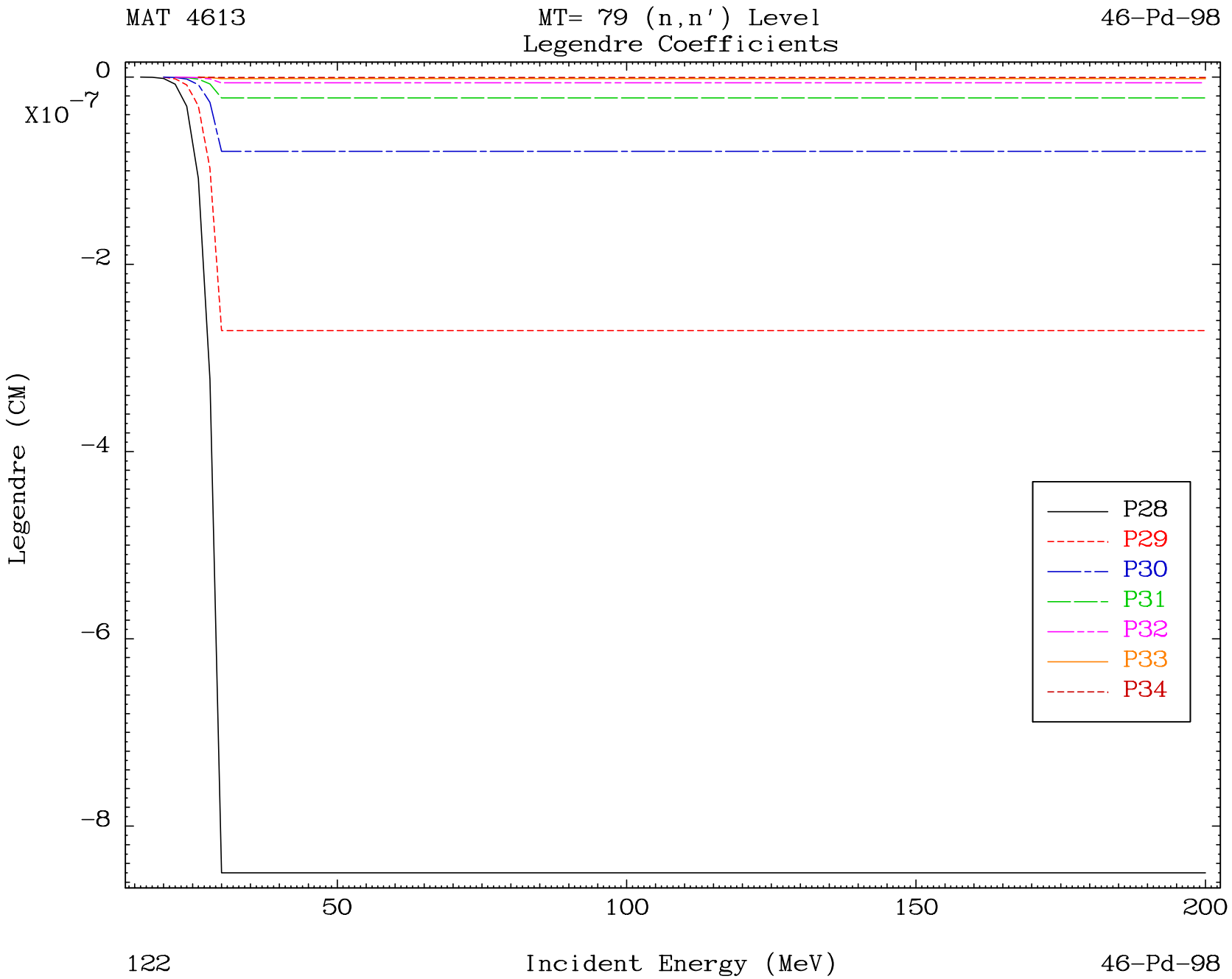

MAT 4613
MT= 78 (n,n') Level
Legendre Coefficients
46-Pd-98
0.000
0.000
0.000
0.000
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
117
Incident Energy (MeV)
46-Pd-98

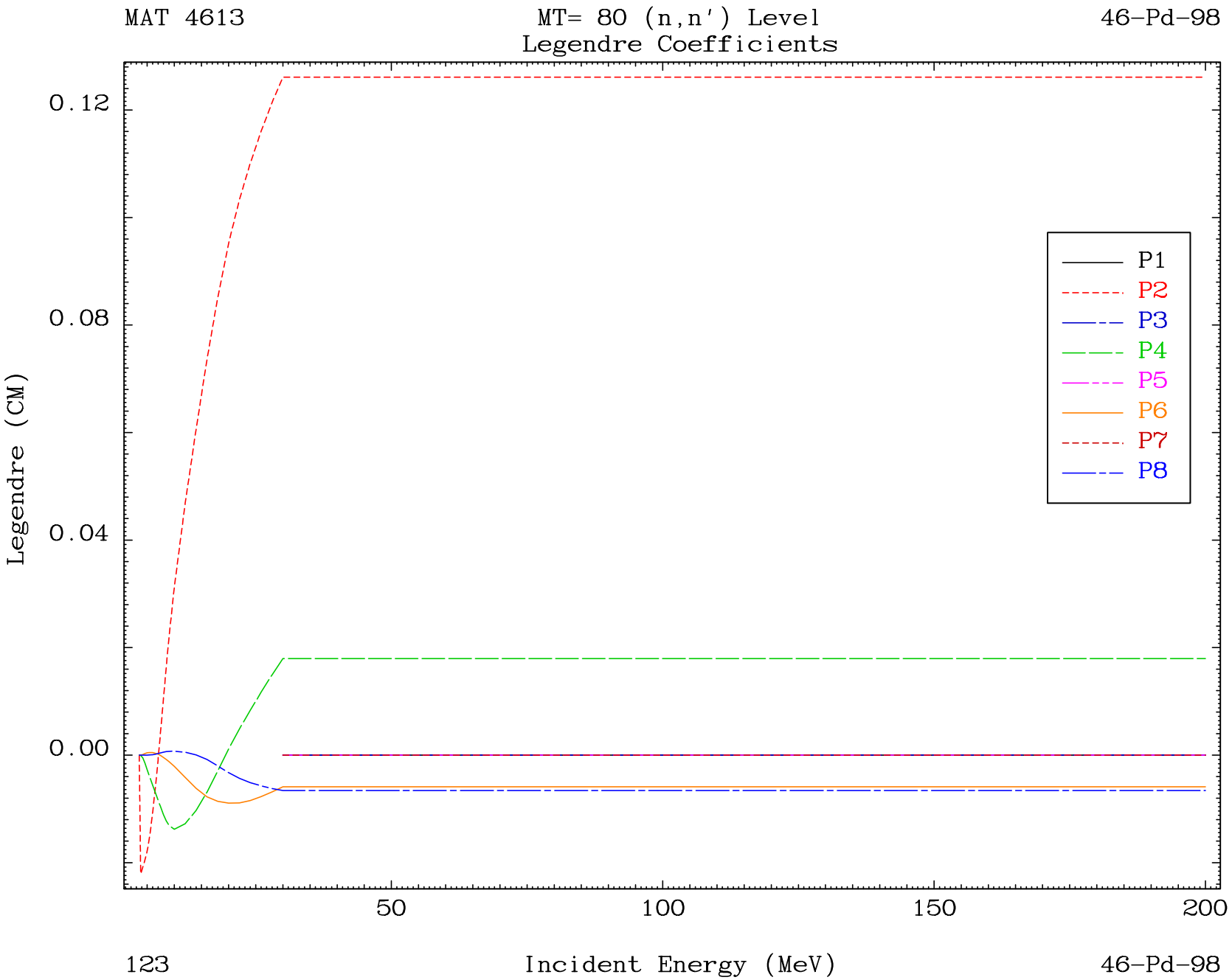

MAT 4613
MT= 78 (n,n') Level
Legendre Coefficients
46-Pd-98
X10^-7
6
4
2
0
Legendre (CM)
50
100
150
200
Incident Energy (MeV)
118
46-Pd-98
P28
P29
P30
P31
P32
P33
P34

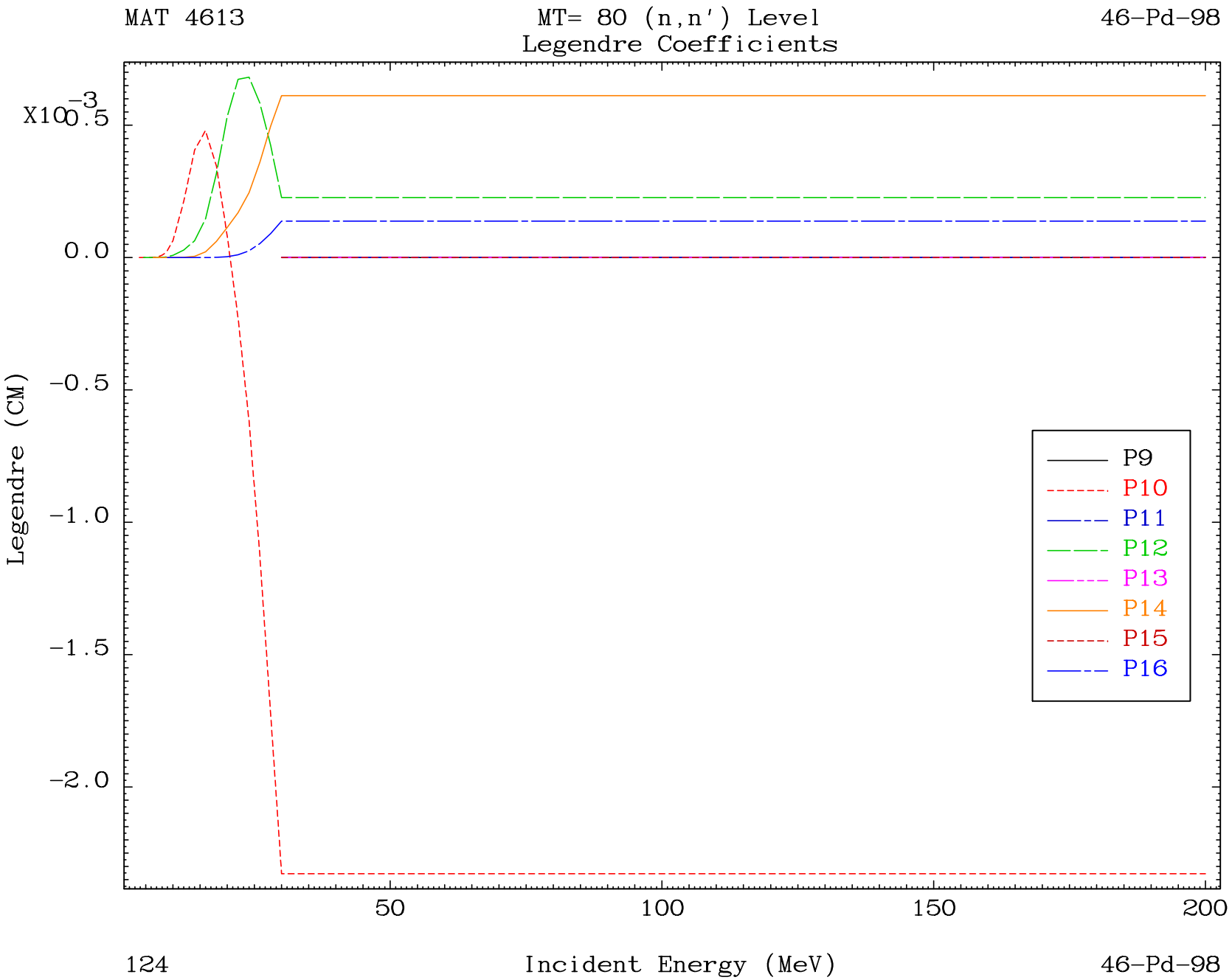

MAT 4613
MT= 79 (n,n') Level
Legendre Coefficients
46-Pd-98
Legendre (CM)
0.25
0.20
0.15
0.10
0.05
0.00
-0.05
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
119
Incident Energy (MeV)
46-Pd-98

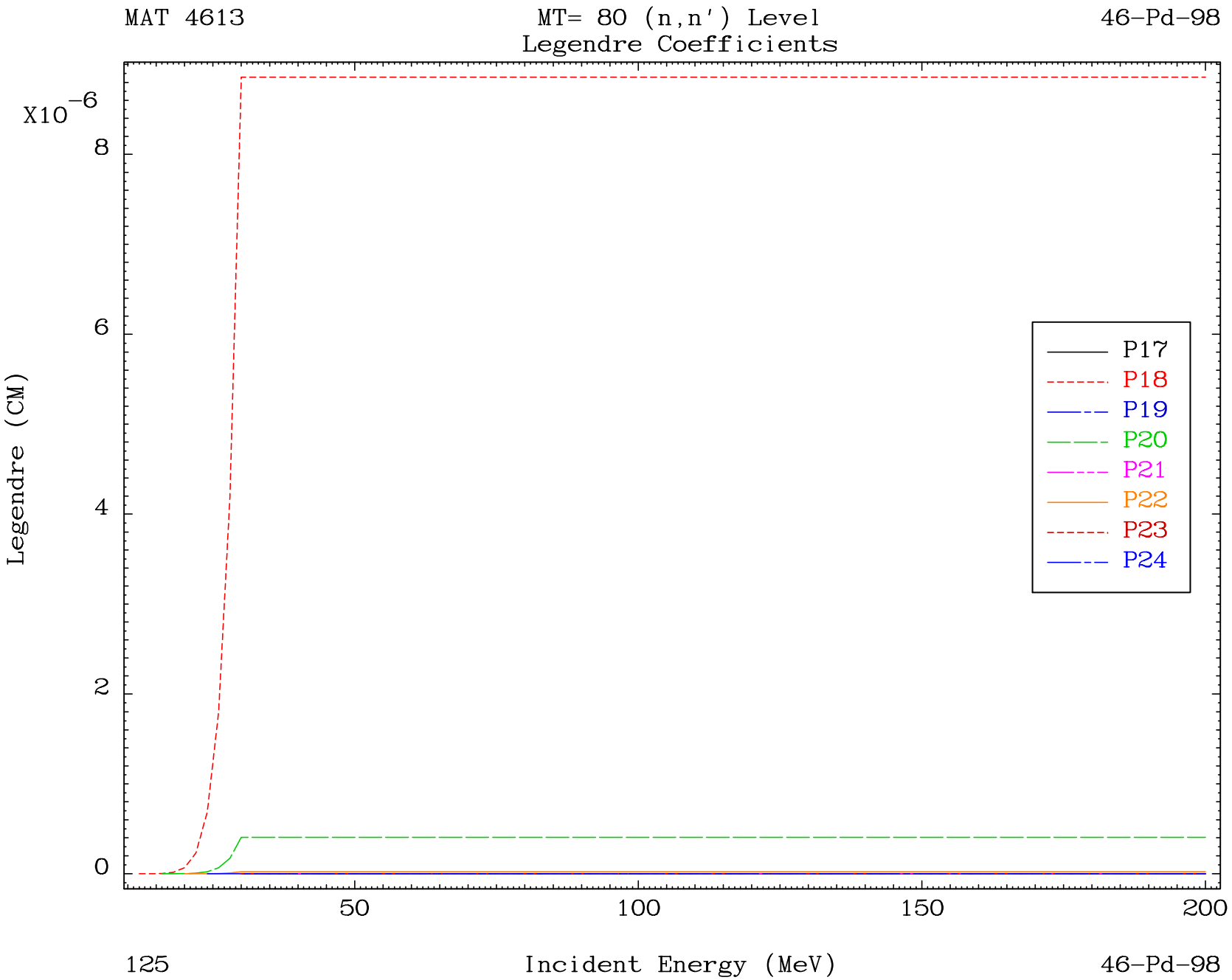

MAT 4613
MT= 79 (n,n') Level
Legendre Coefficients
46-Pd-98
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.04
0.02
0.00
-0.02
-0.04
Legendre (CM)
120
50
100
150
200
Incident Energy (MeV)
46-Pd-98

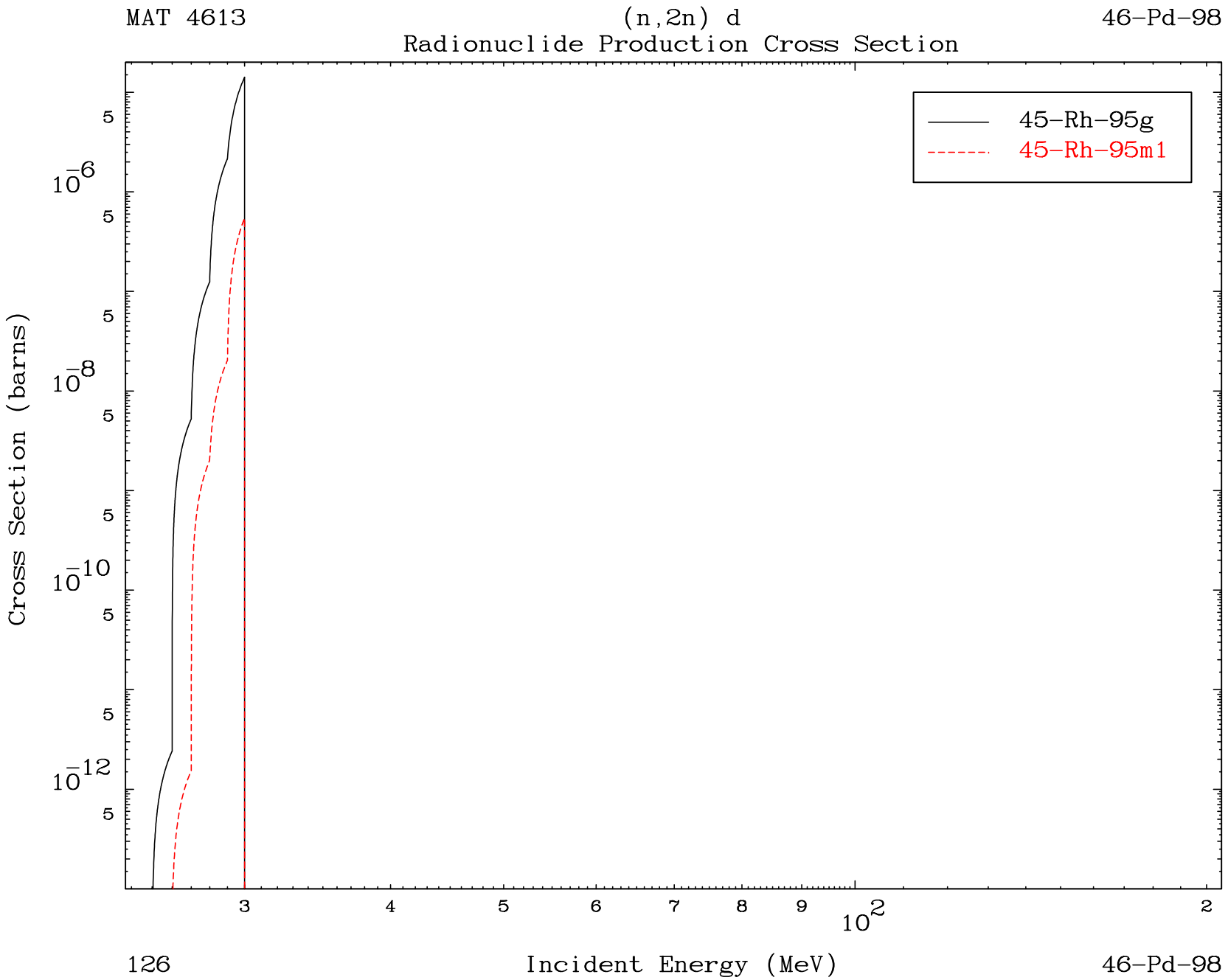

MAT 4613
MT= 79 (n,n') Level
Legendre Coefficients
46-Pd-98
0.000
0.000
-0.002
-0.003
-0.004
-0.005
Legendre (CM)
50
100
150
200
121
Incident Energy (MeV)
46-Pd-98
P19
P20
P21
P22
P23
P24
P25
P26
P27

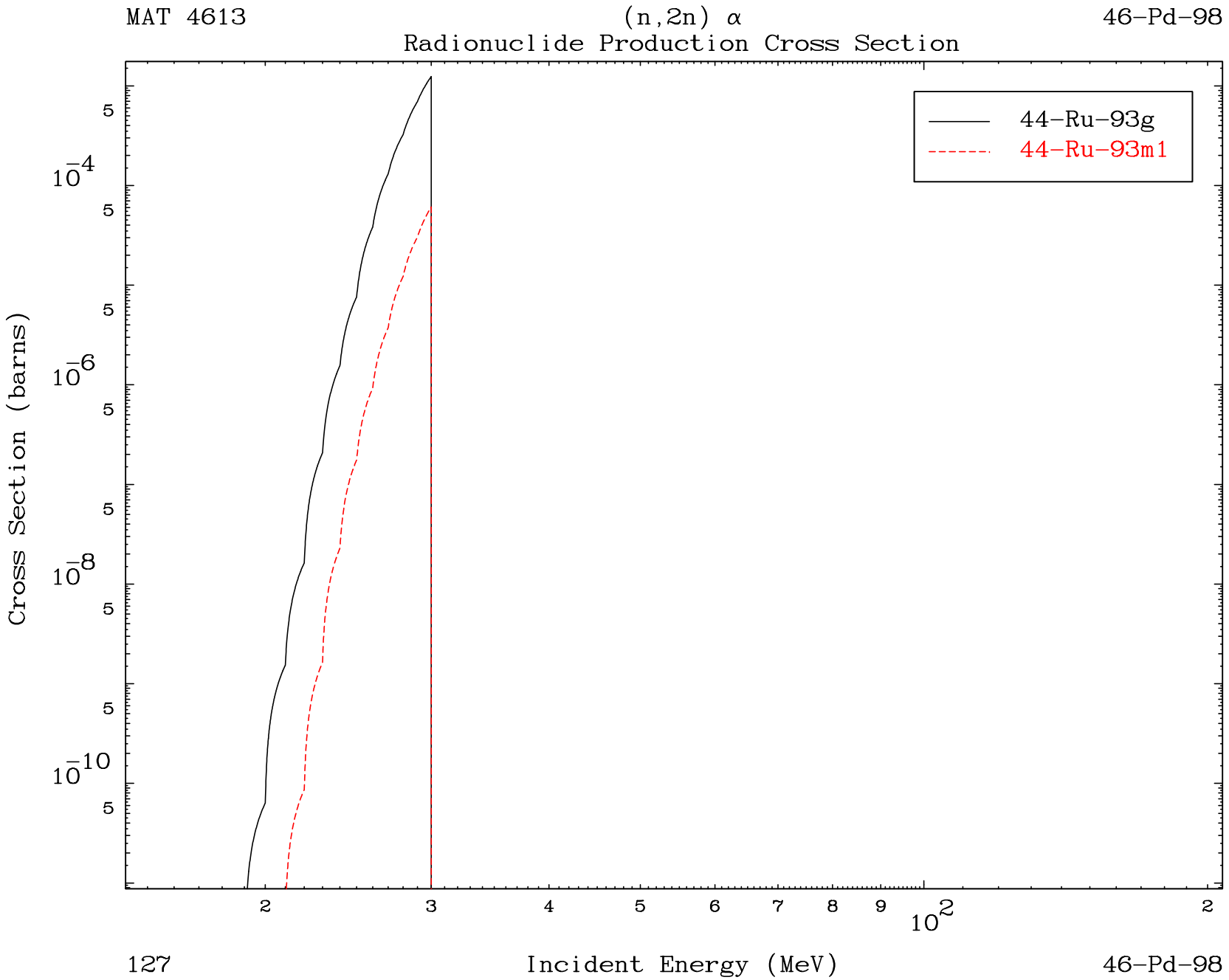

MAT 4613
MT= 79 (n,n') Level
Legendre Coefficients
46-Pd-98
X10-7
0
-2
-4
-6
-8
Legendre (CM)
50
100
150
200
122
Incident Energy (MeV)
46-Pd-98
P28
P29
P30
P31
P32
P33
P34

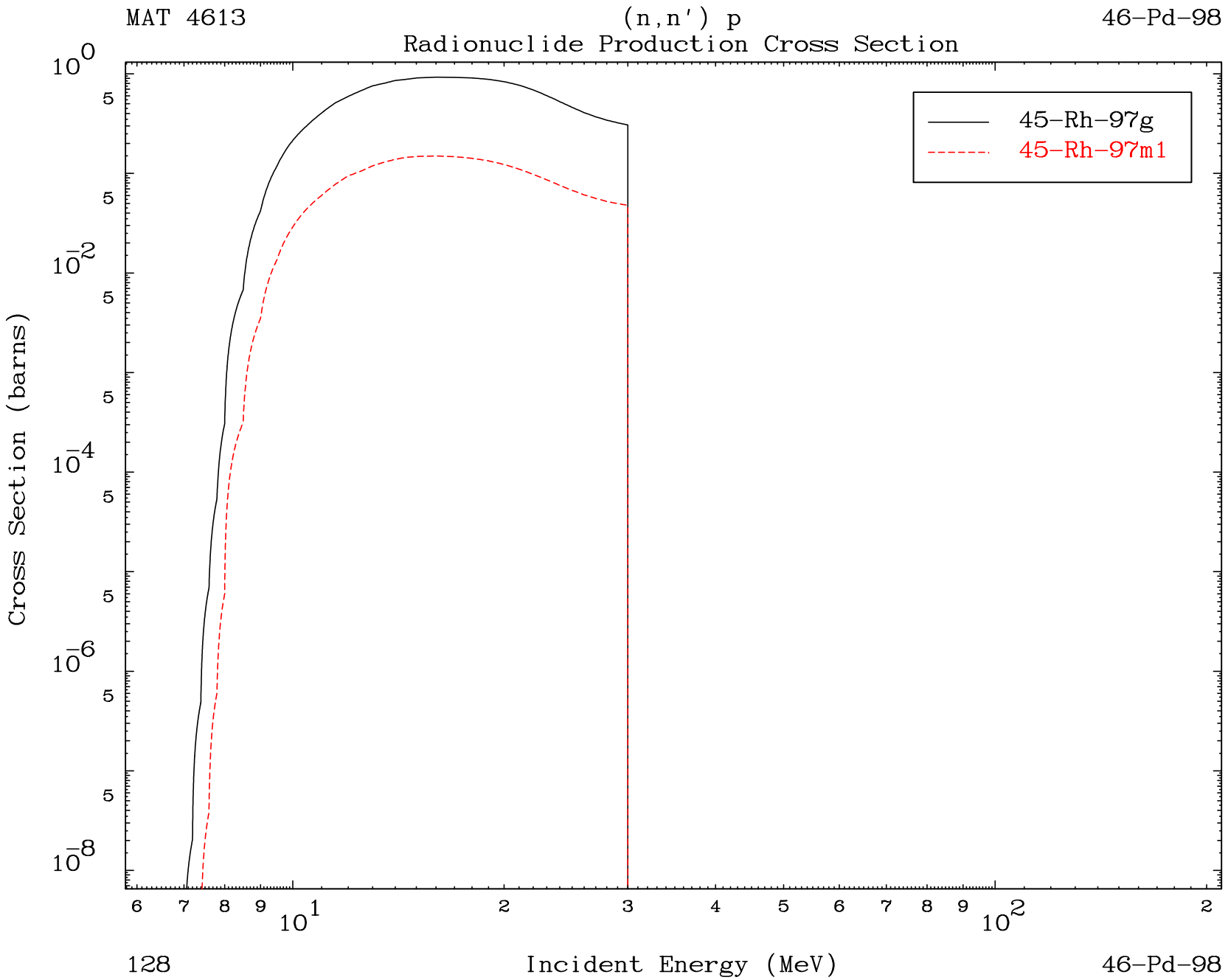

MAT 4613
MT= 80 (n,n') Level
Legendre Coefficients
46-Pd-98
0.12
0.08
0.04
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
50
100
150
200
123
Incident Energy (MeV)
46-Pd-98

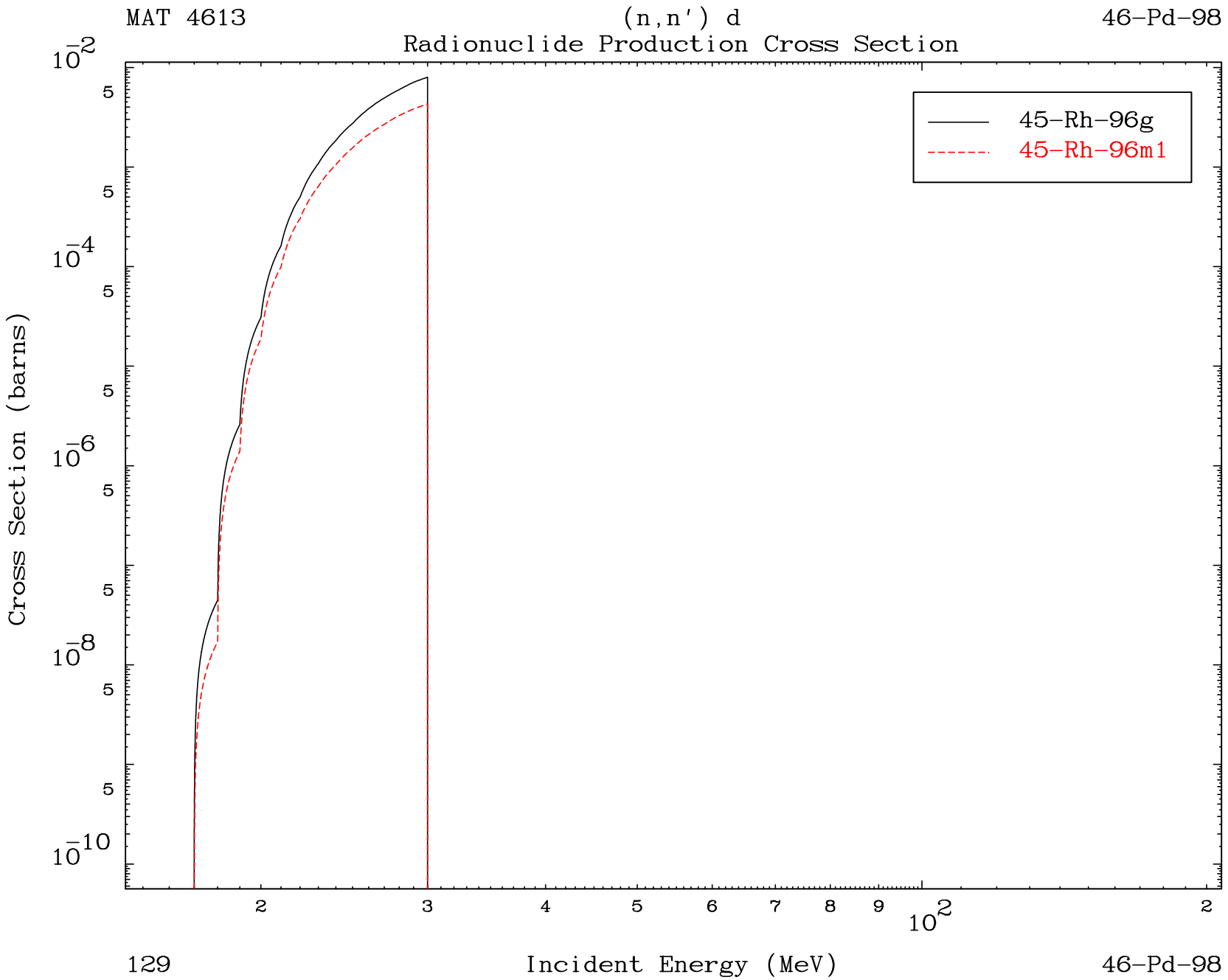

MAT 4613
MT= 80 (n,n') Level
Legendre Coefficients
46-Pd-98
X10^-3
0.5
0.0
-0.5
-1.0
-1.5
-2.0
Legendre (CM)
50
100
150
200
124
Incident Energy (MeV)
46-Pd-98
P9
P10
P11
P12
P13
P14
P15
P16

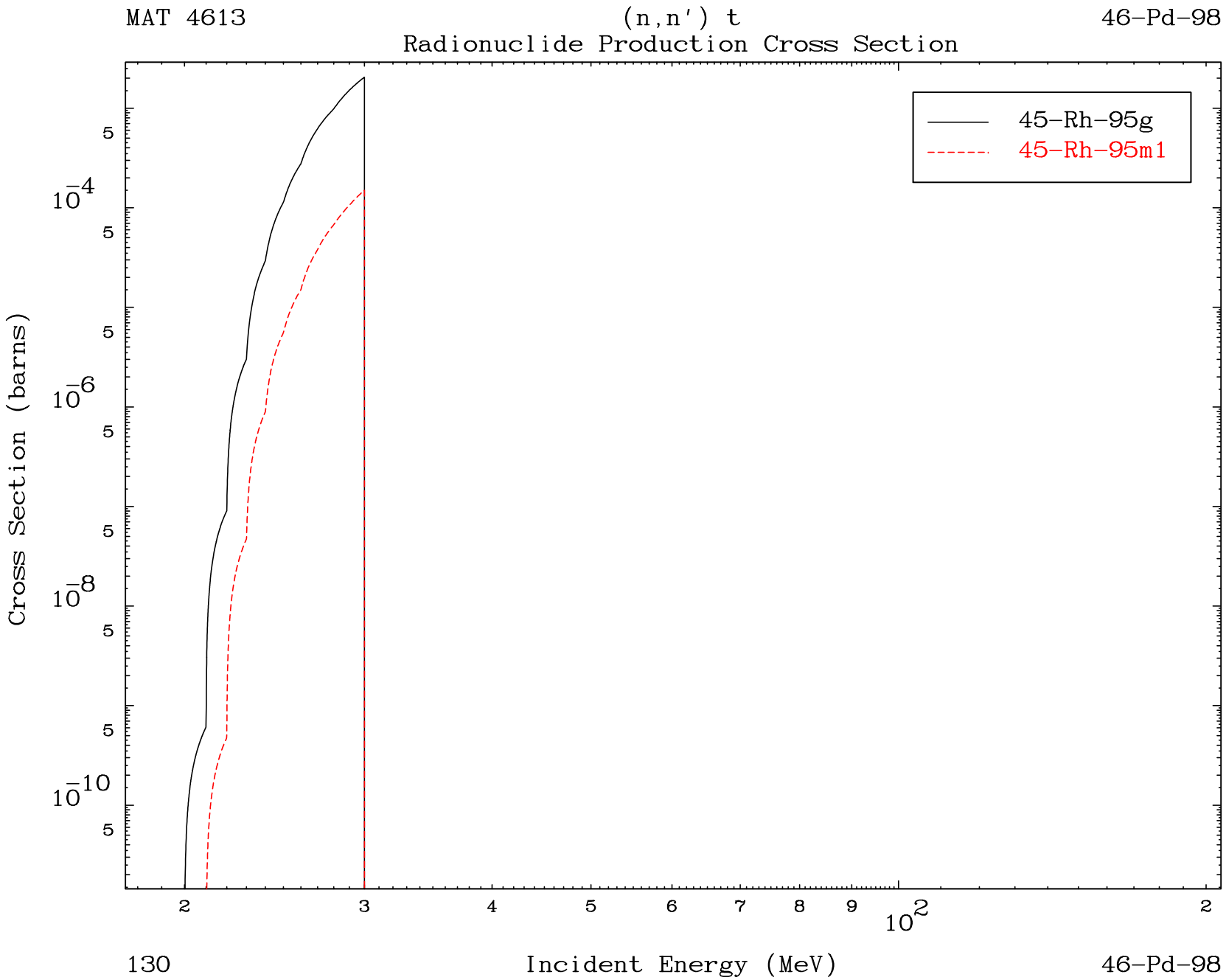

MAT 4613
MT= 80 (n,n') Level
Legendre Coefficients
46-Pd-98
X10^-6
8
6
4
2
0
Legendre (CM)
50
100
150
200
125
Incident Energy (MeV)
46-Pd-98
P17
P18
P19
P20
P21
P22
P23
P24

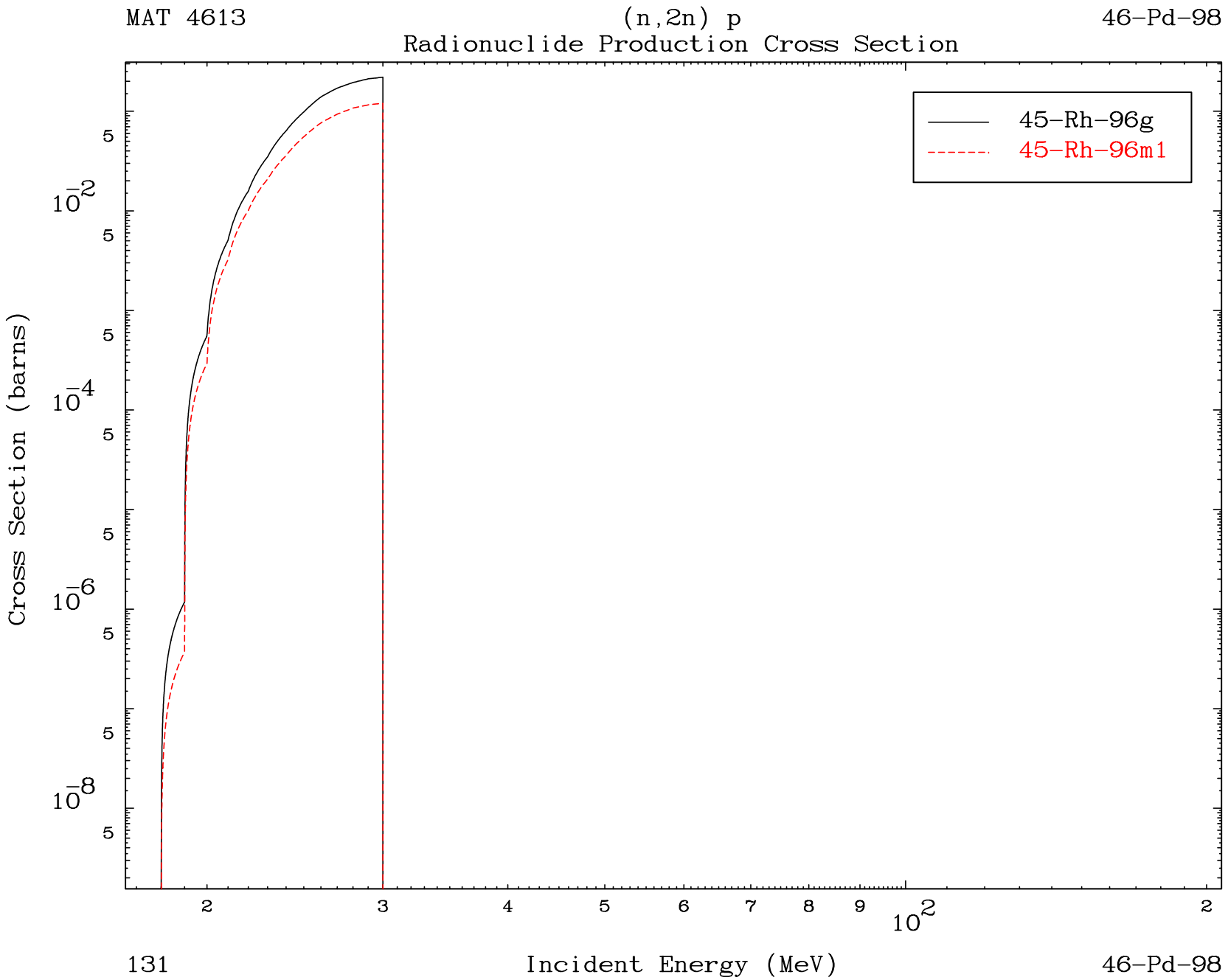

MAT 4613
(n,2n) d
46-Pd-98
Radionuclide Production Cross Section
45-Rh-95g
45-Rh-95m1
Cross Section (barns)
10-6
10-8
10-10
10-12
5
3
4
5
6
7
8
9
10 2
2
126
Incident Energy (MeV)
46-Pd-98

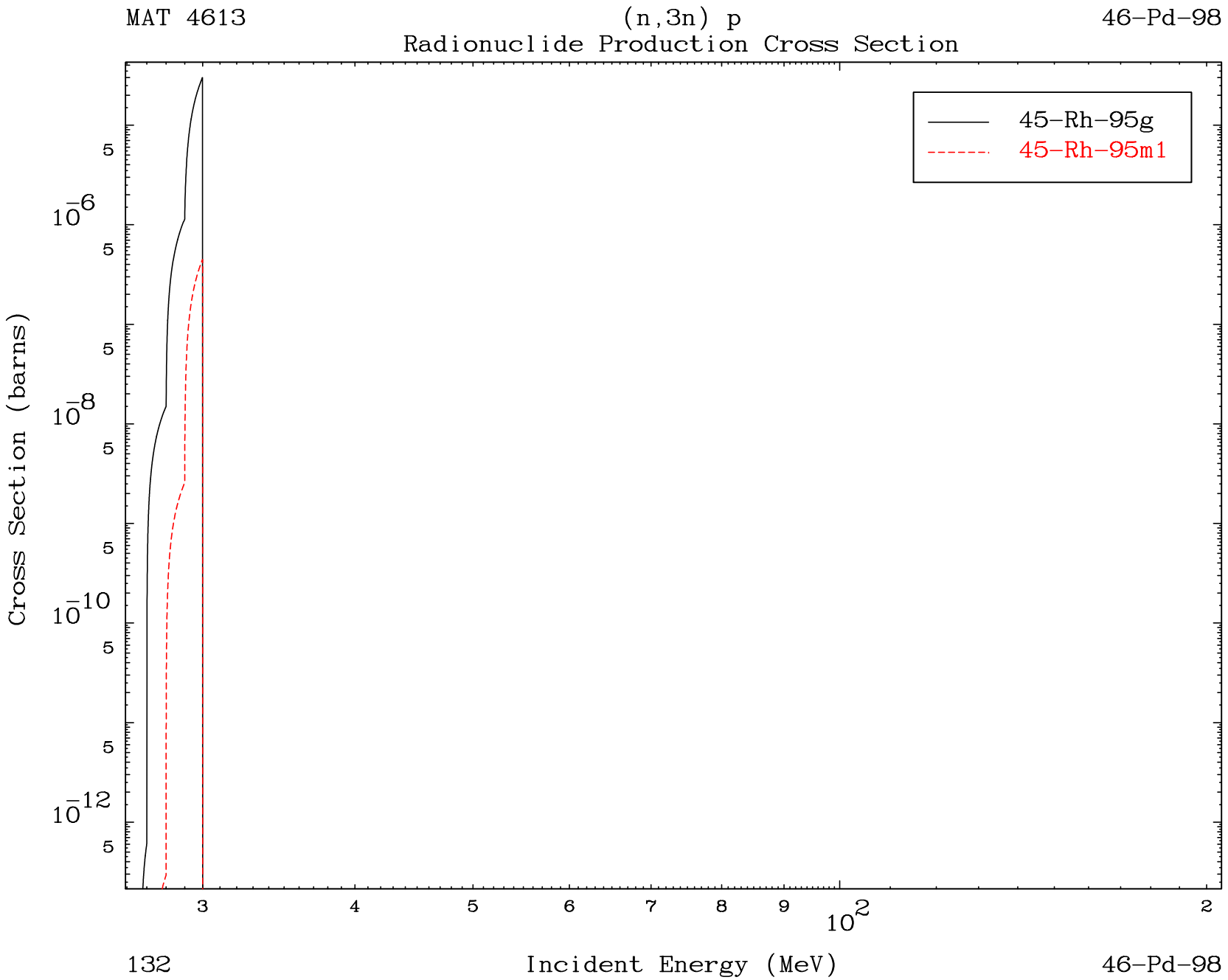

MAT 4613
(n,2n) α
46-Pd-98
Radionuclide Production Cross Section
44-Ru-93g
44-Ru-93m1
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
2
3
4
5
6
7
8
9
10^2
2
127
Incident Energy (MeV)
46-Pd-98

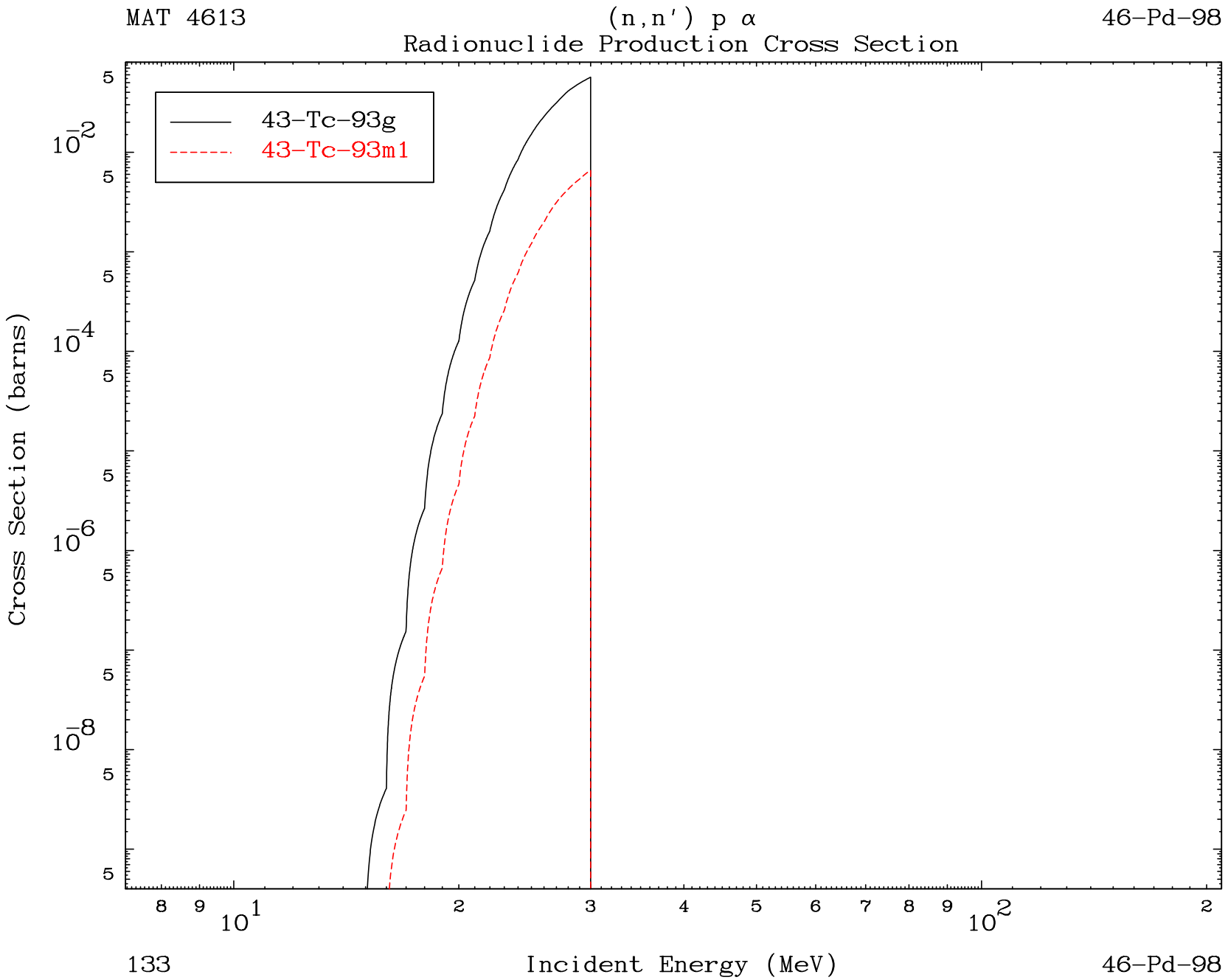

MAT 4613
(n,n') p
46-Pd-98
Radionuclide Production Cross Section
45-Rh-97g
45-Rh-97m1
Cross Section (barns)
Incident Energy (MeV)
128
46-Pd-98

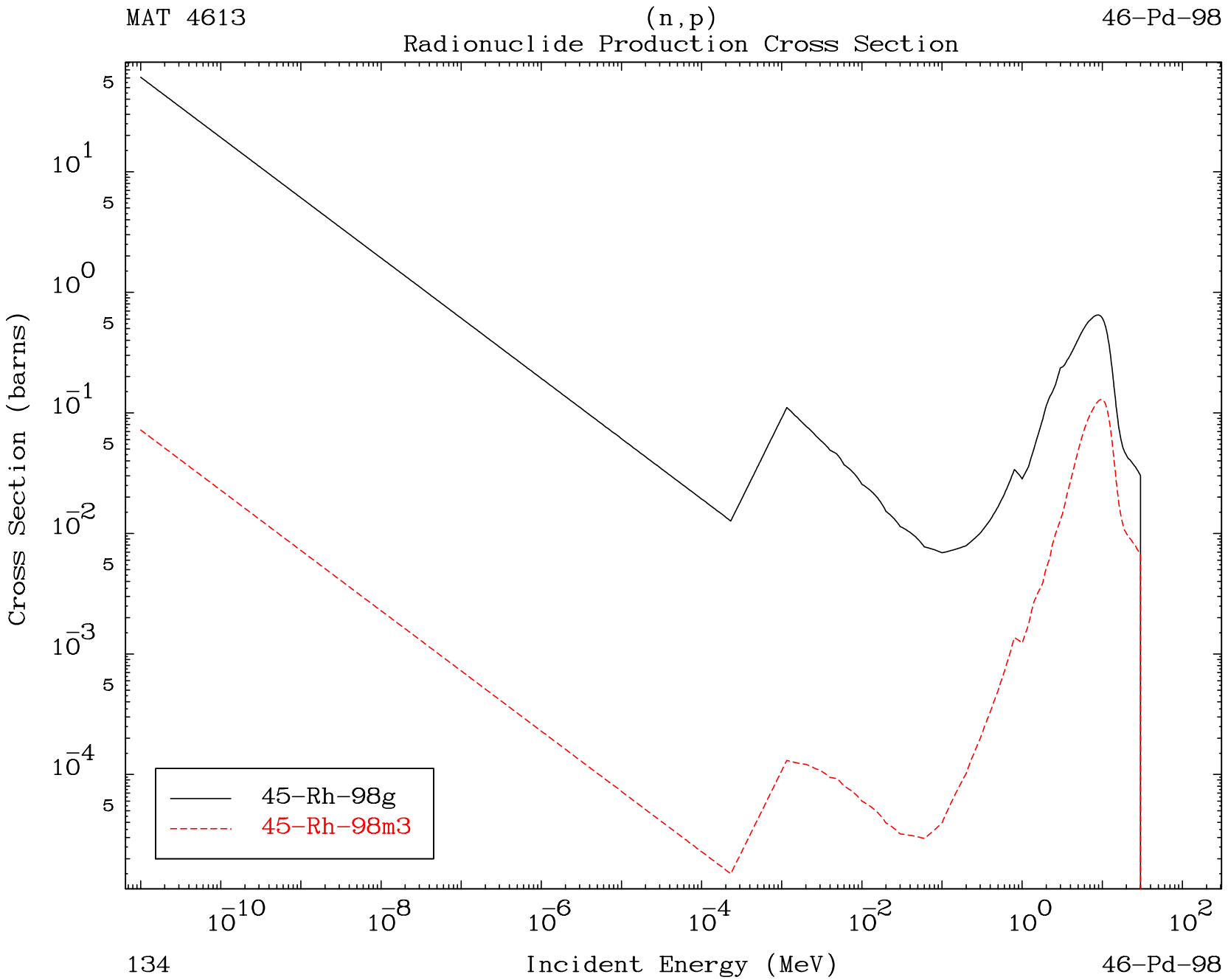

MAT 4613
(n,n') d
46-Pd-98
Radionuclide Production Cross Section
45-Rh-96g
45-Rh-96m1
Cross Section (barns)
Incident Energy (MeV)
129
46-Pd-98

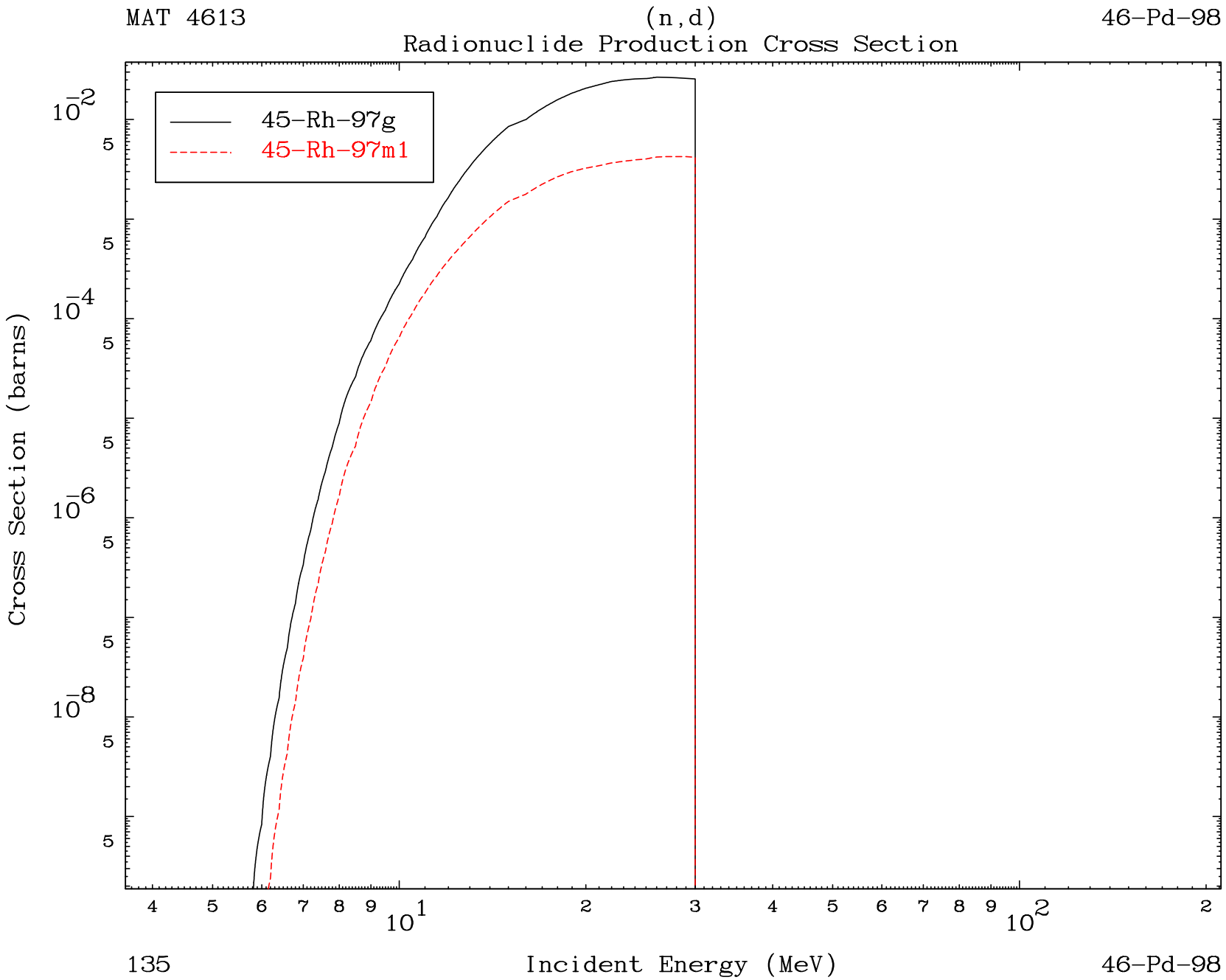

MAT 4613
(n,n') t
46-Pd-98
Radionuclide Production Cross Section
45-Rh-95g
45-Rh-95m1
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
2
3
4
5
6
7
8
9
10^2
2
130
Incident Energy (MeV)
46-Pd-98

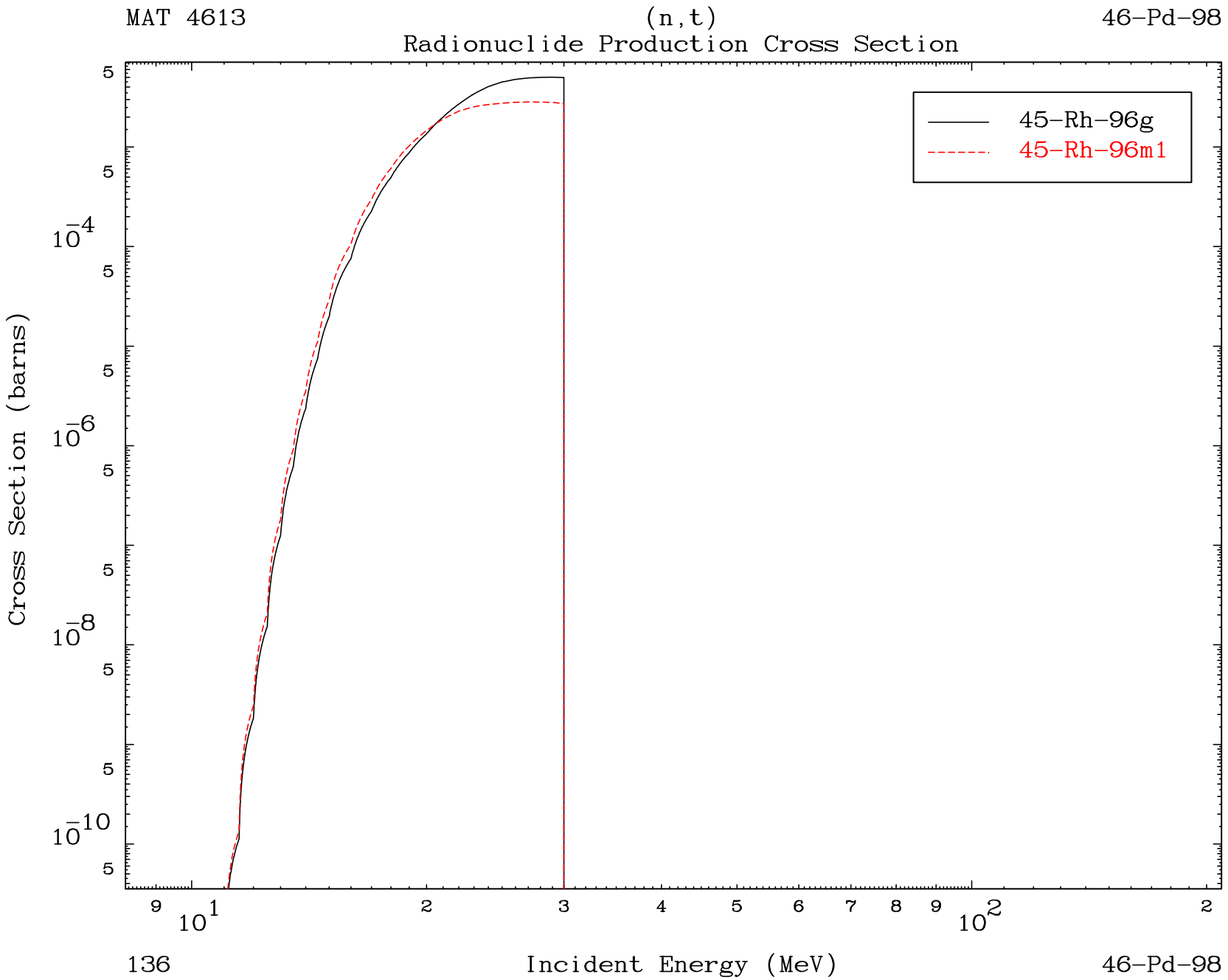

MAT 4613
(n,2n) p
46-Pd-98
Radionuclide Production Cross Section
45-Rh-96g
45-Rh-96m1
Cross Section (barns)
10-2
10-4
10-6
10-8
2
3
4
5
6
7
8
9
10 2
2
131
Incident Energy (MeV)
46-Pd-98

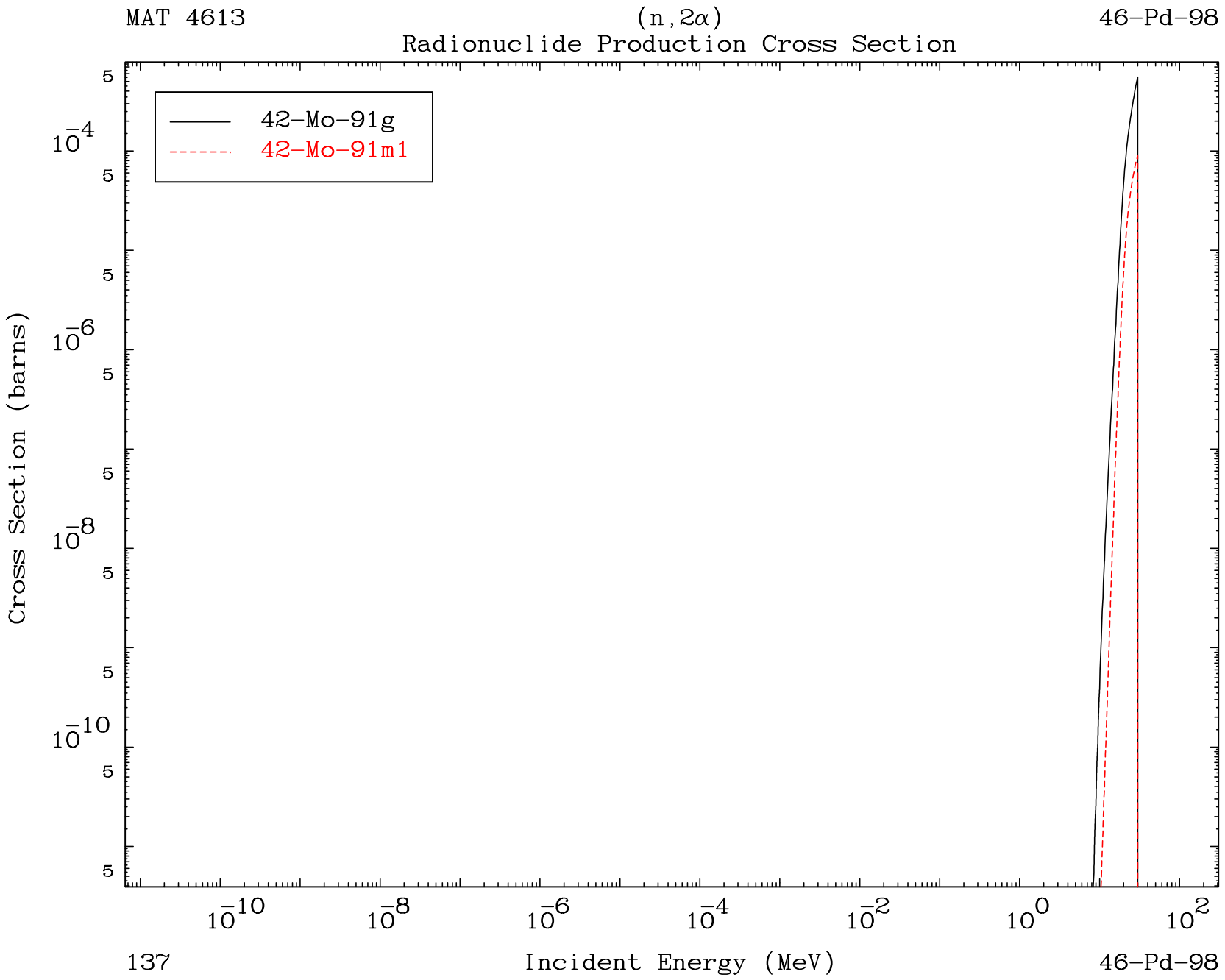

MAT 4613
(n,3n) p
46-Pd-98
Radionuclide Production Cross Section
45-Rh-95g
45-Rh-95m1
Cross Section (barns)
10-6
10-8
10-10
10-12
5
3
4
5
6
7
8
9
10 2
2
132
Incident Energy (MeV)
46-Pd-98

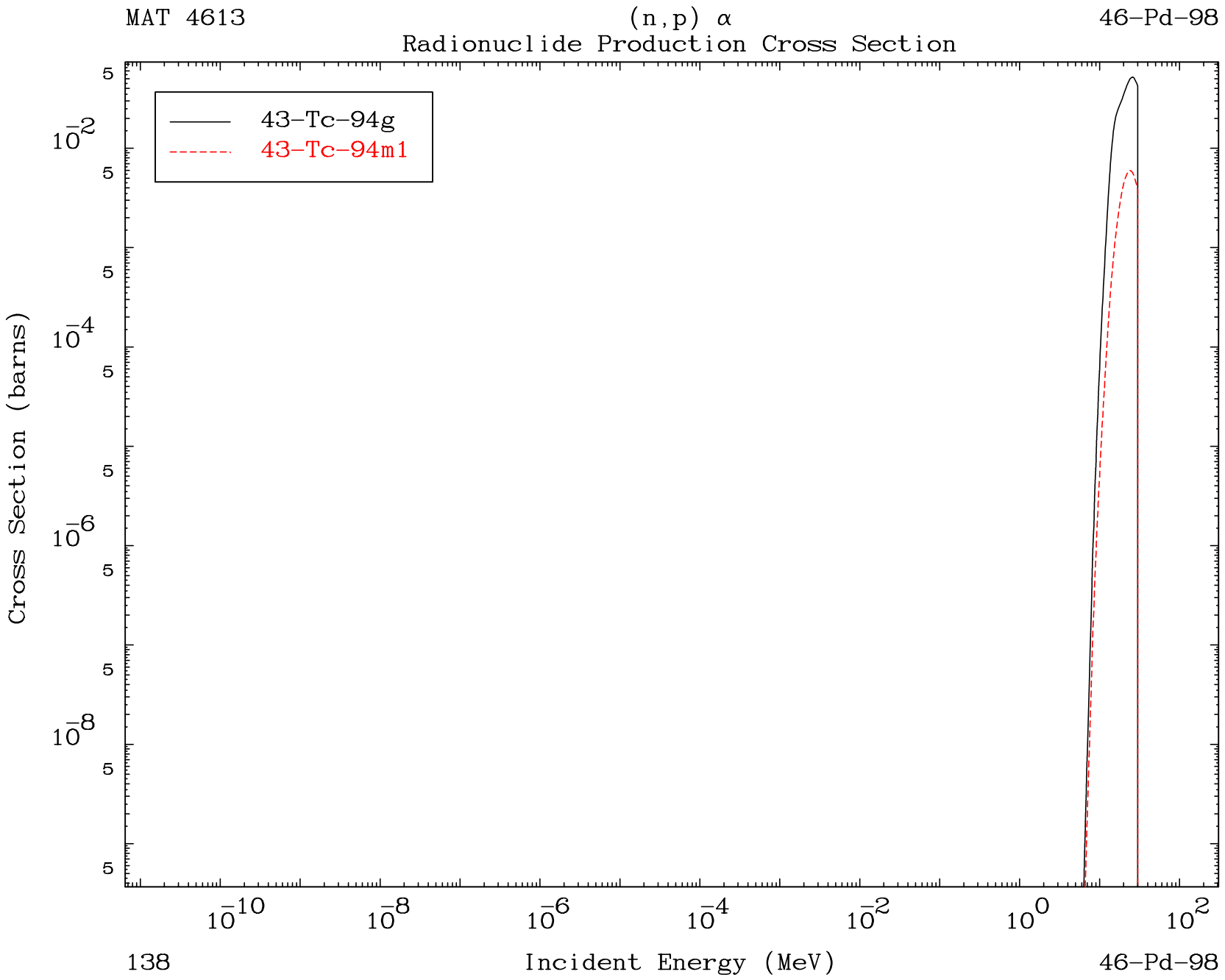

MAT 4613
(n,n') p α
46-Pd-98
Radionuclide Production Cross Section
43-Tc-93g
43-Tc-93m1
Cross Section (barns)
Incident Energy (MeV)
133
46-Pd-98

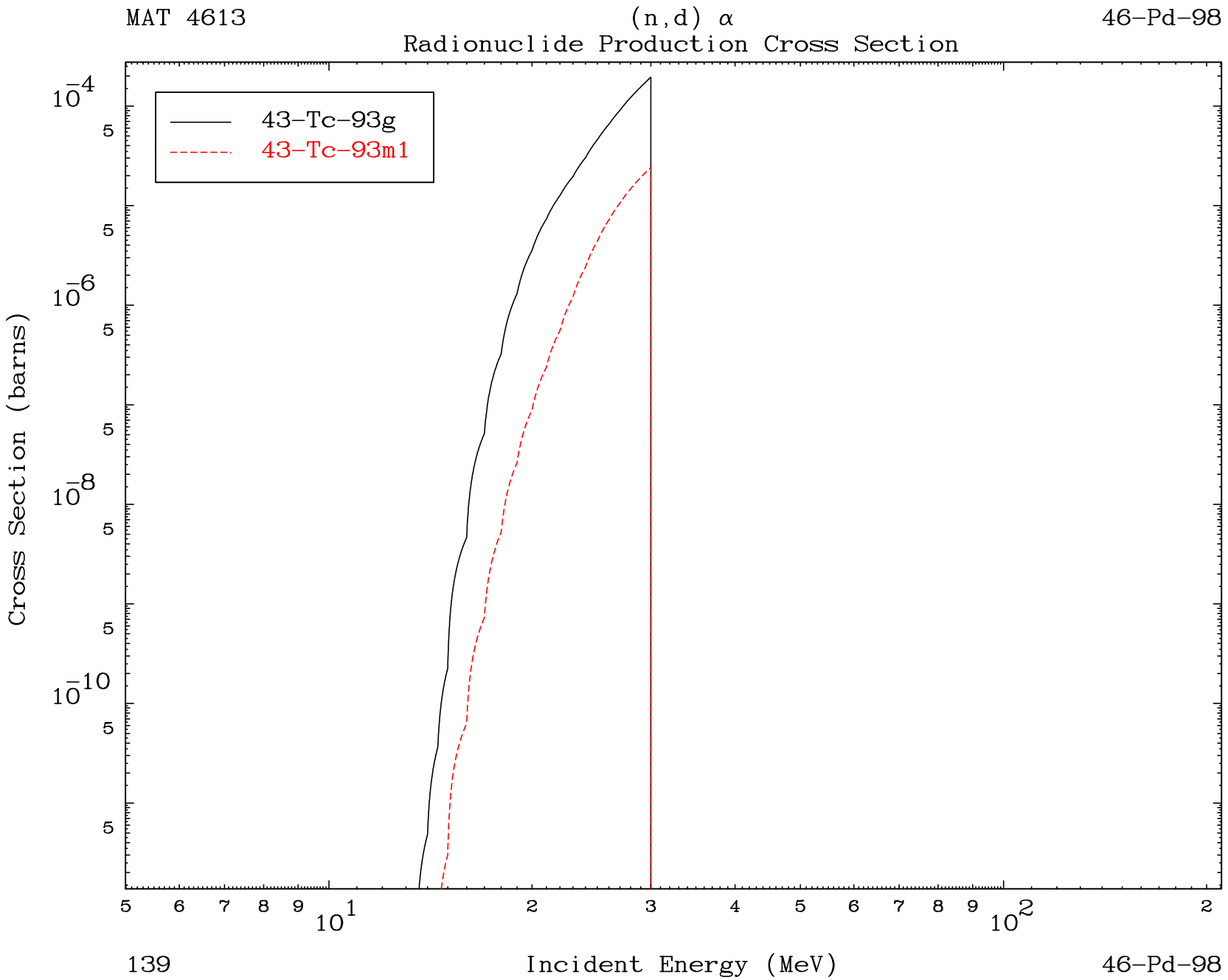

MAT 4613
(n,p)
46-Pd-98
Radionuclide Production Cross Section
Cross Section (barns)
10^1
10^0
10^-1
10^-2
10^-3
10^-4
5
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
45-Rh-98g
45-Rh-98m3
134
Incident Energy (MeV)
46-Pd-98


MAT 4613
(n,d)
46-Pd-98
Radionuclide Production Cross Section
45-Rh-97g
45-Rh-97m1
Cross Section (barns)
Incident Energy (MeV)
135
46-Pd-98


MAT 4613
(n,t)
46-Pd-98
Radionuclide Production Cross Section
45-Rh-96g
45-Rh-96m1
Cross Section (barns)
Incident Energy (MeV)
136
46-Pd-98


MAT 4613
(n,2α)
46-Pd-98
Radionuclide Production Cross Section
42-Mo-91g
42-Mo-91m1
Cross Section (barns)
Incident Energy (MeV)
137
46-Pd-98


MAT 4613
(n,p) α
46-Pd-98
Radionuclide Production Cross Section
43-Tc-94g
43-Tc-94m1
Cross Section (barns)
Incident Energy (MeV)
138
46-Pd-98


MAT 4613
(n,d) α
46-Pd-98
Radionuclide Production Cross Section
43-Tc-93g
43-Tc-93m1
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
10^1
2
3
4
5
6
7
8
9
10^2
2
139
Incident Energy (MeV)
46-Pd-98