Program EVALPLOT
(Version 2021-1)
by
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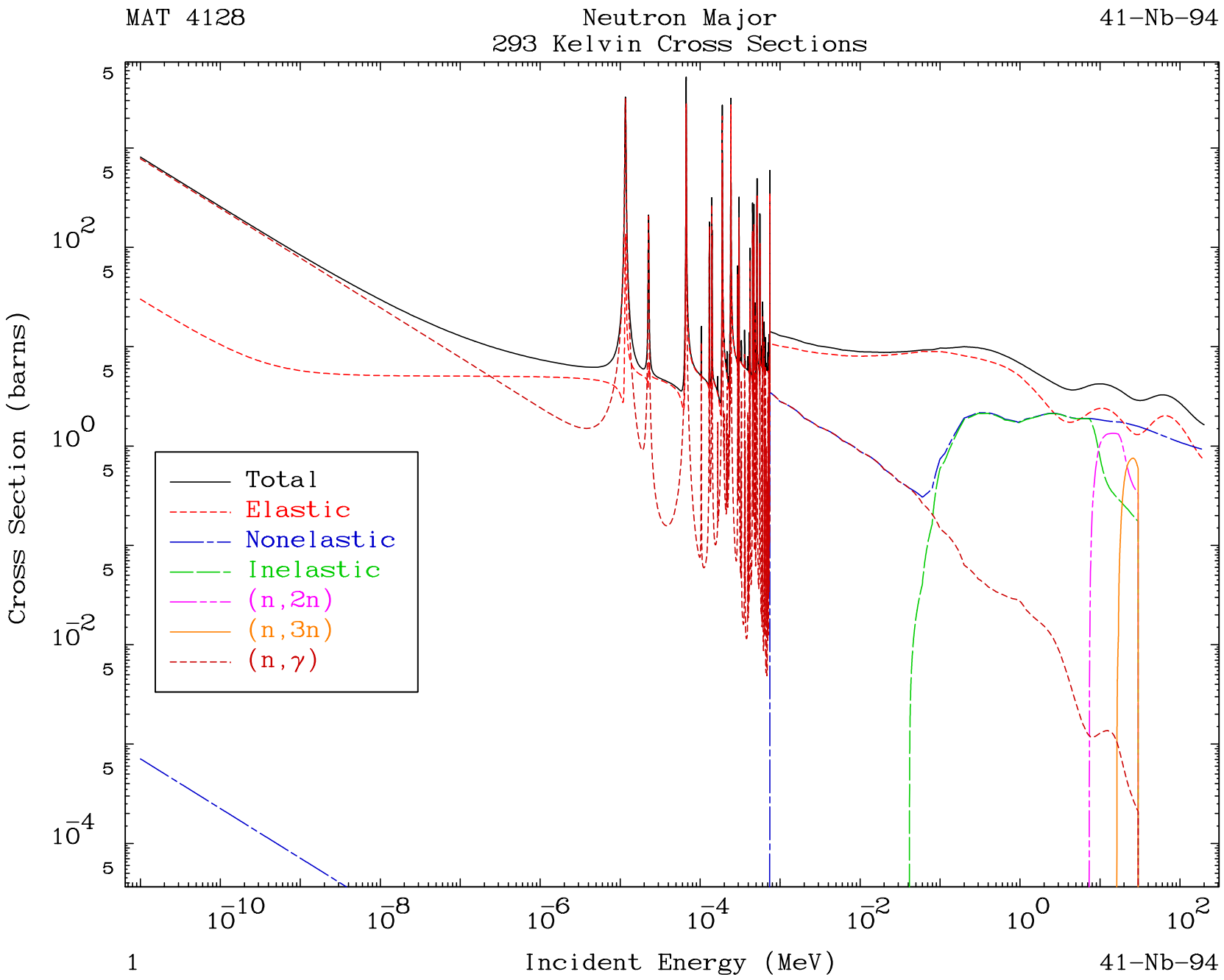
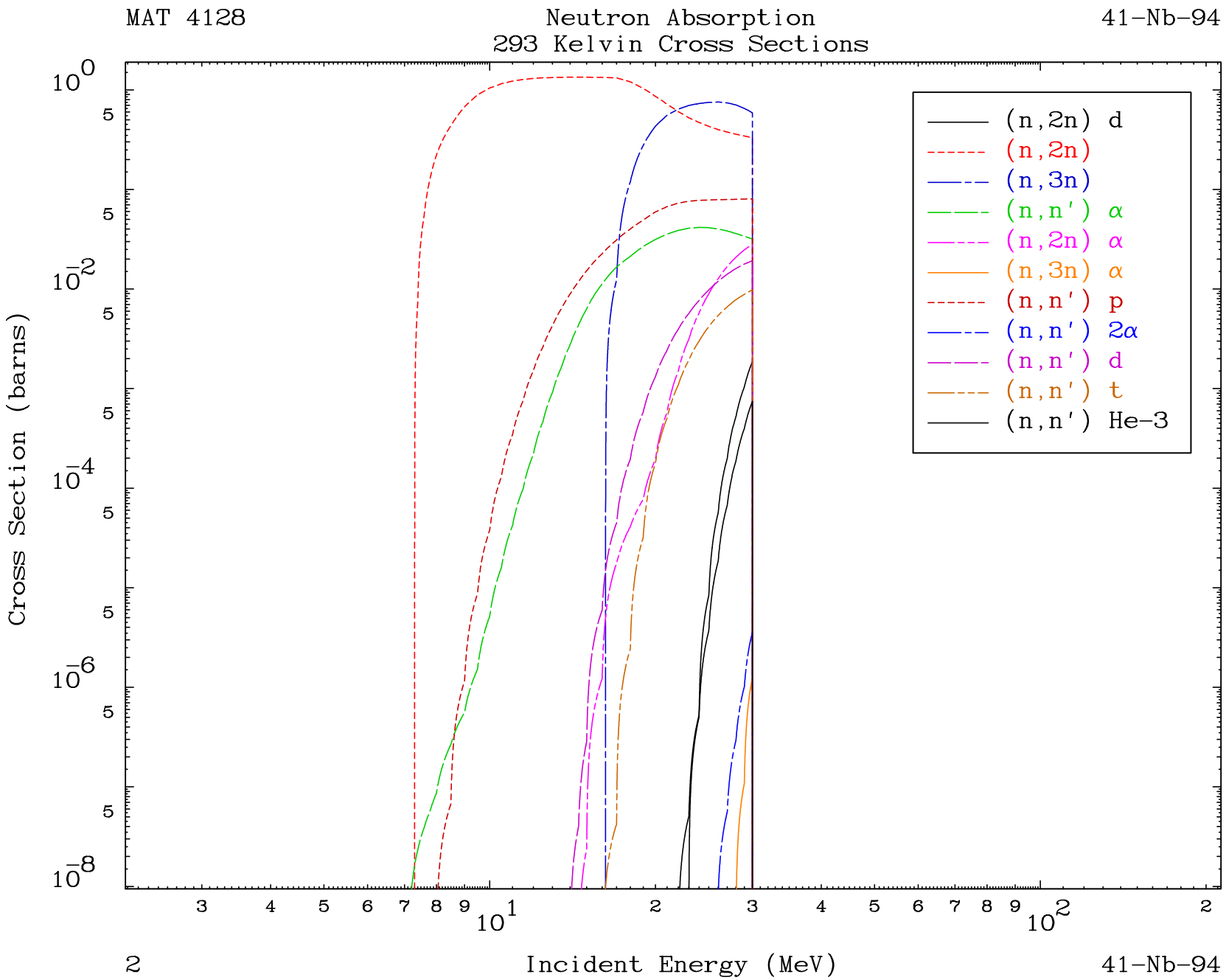
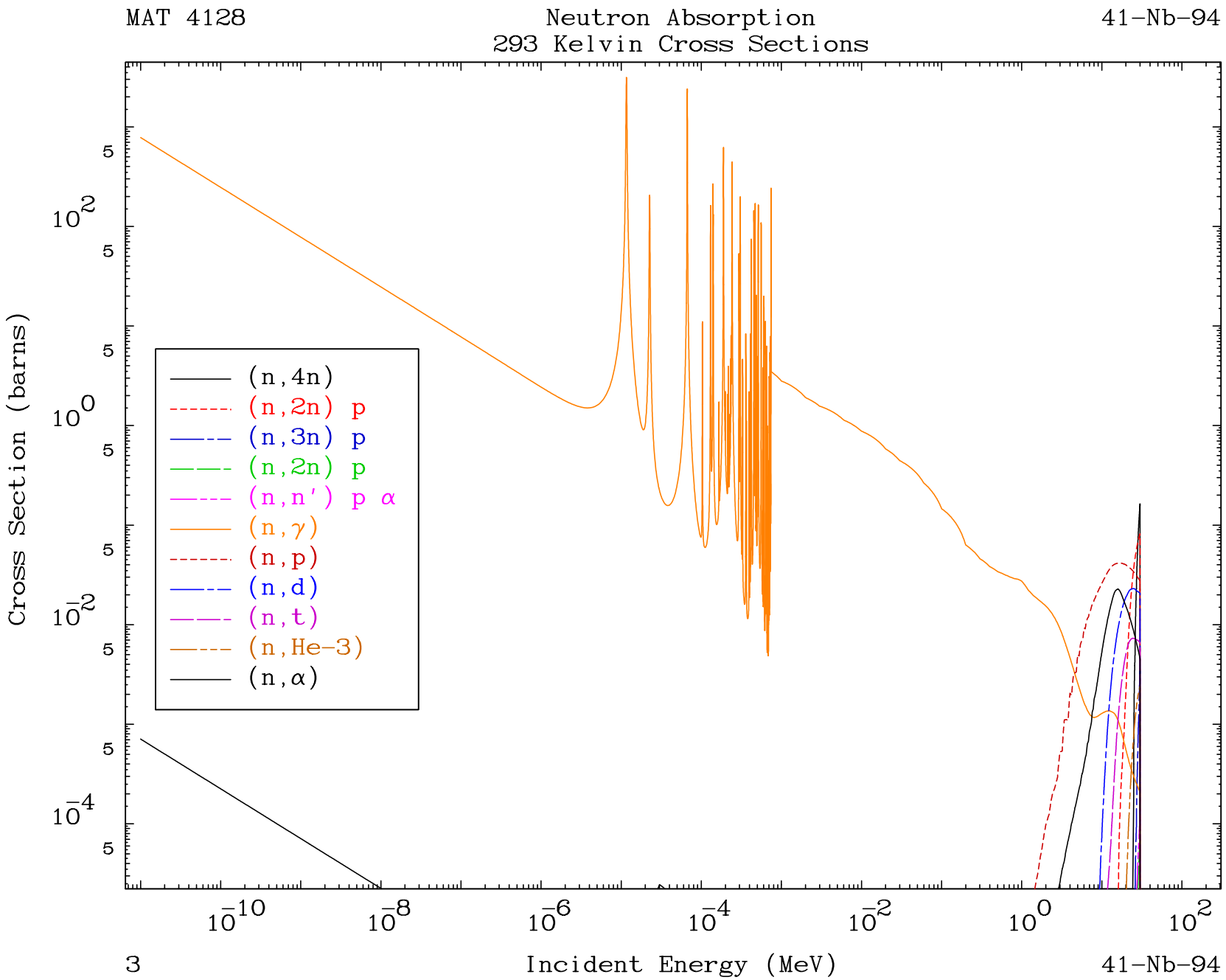
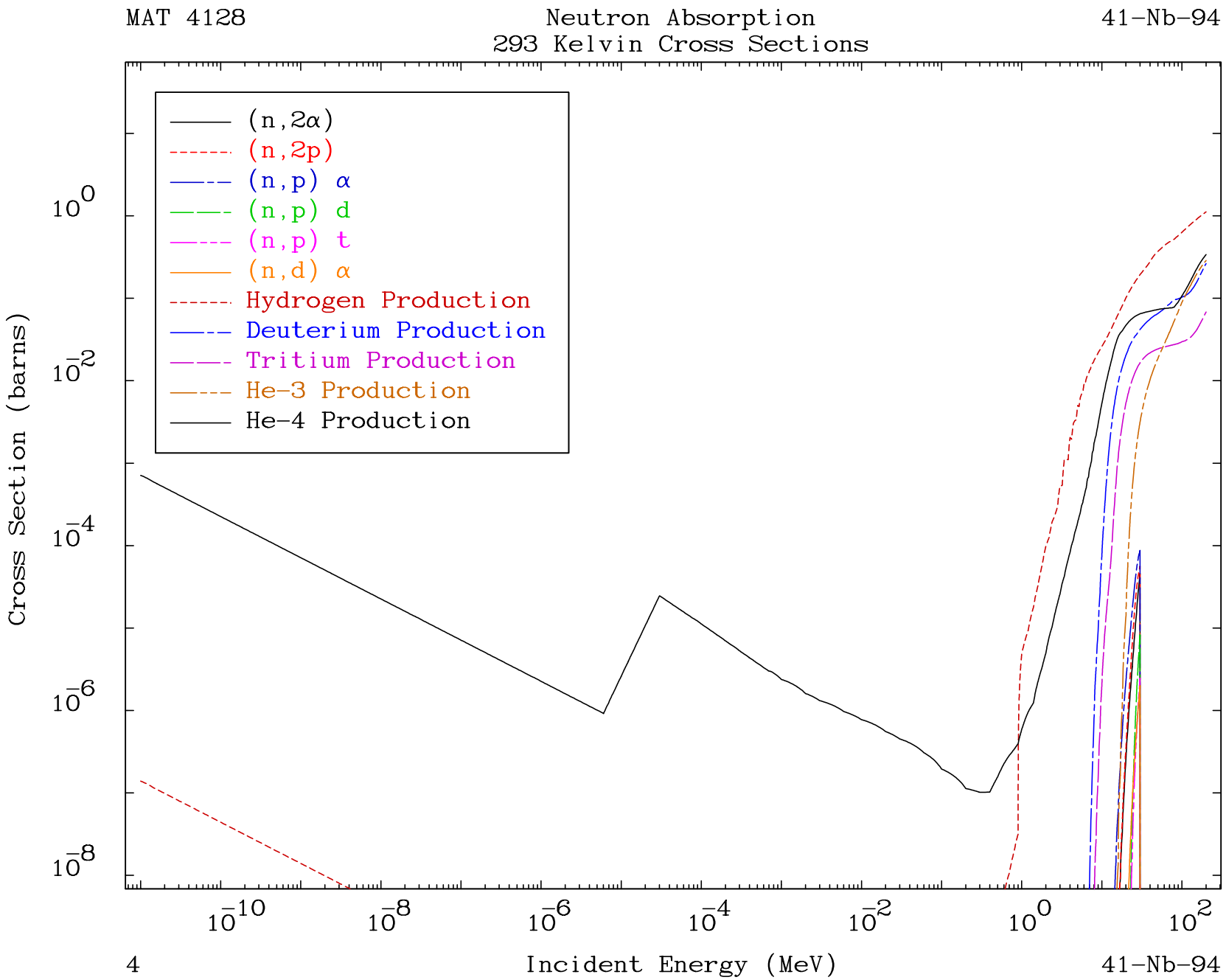
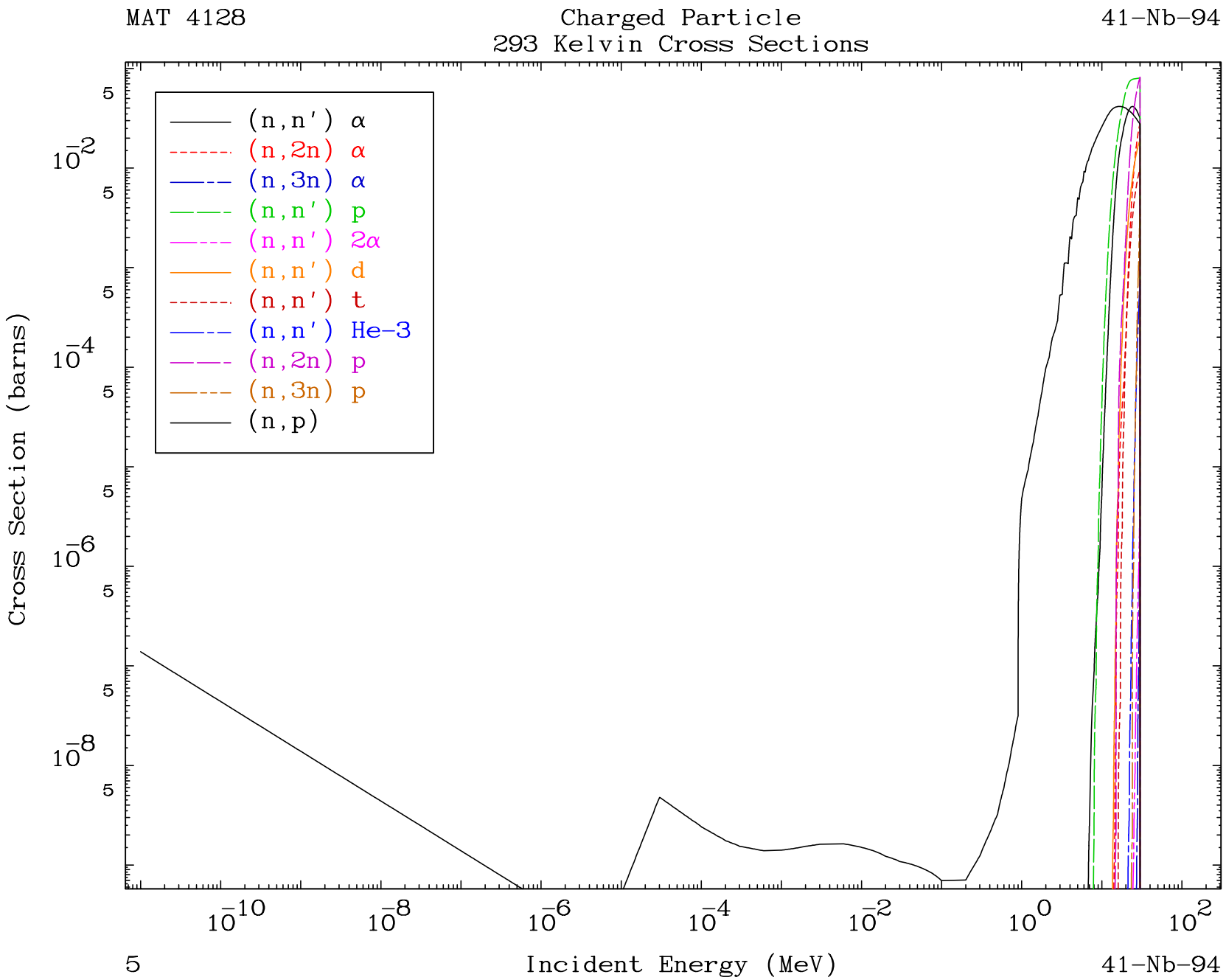
Press Mouse Button to Start

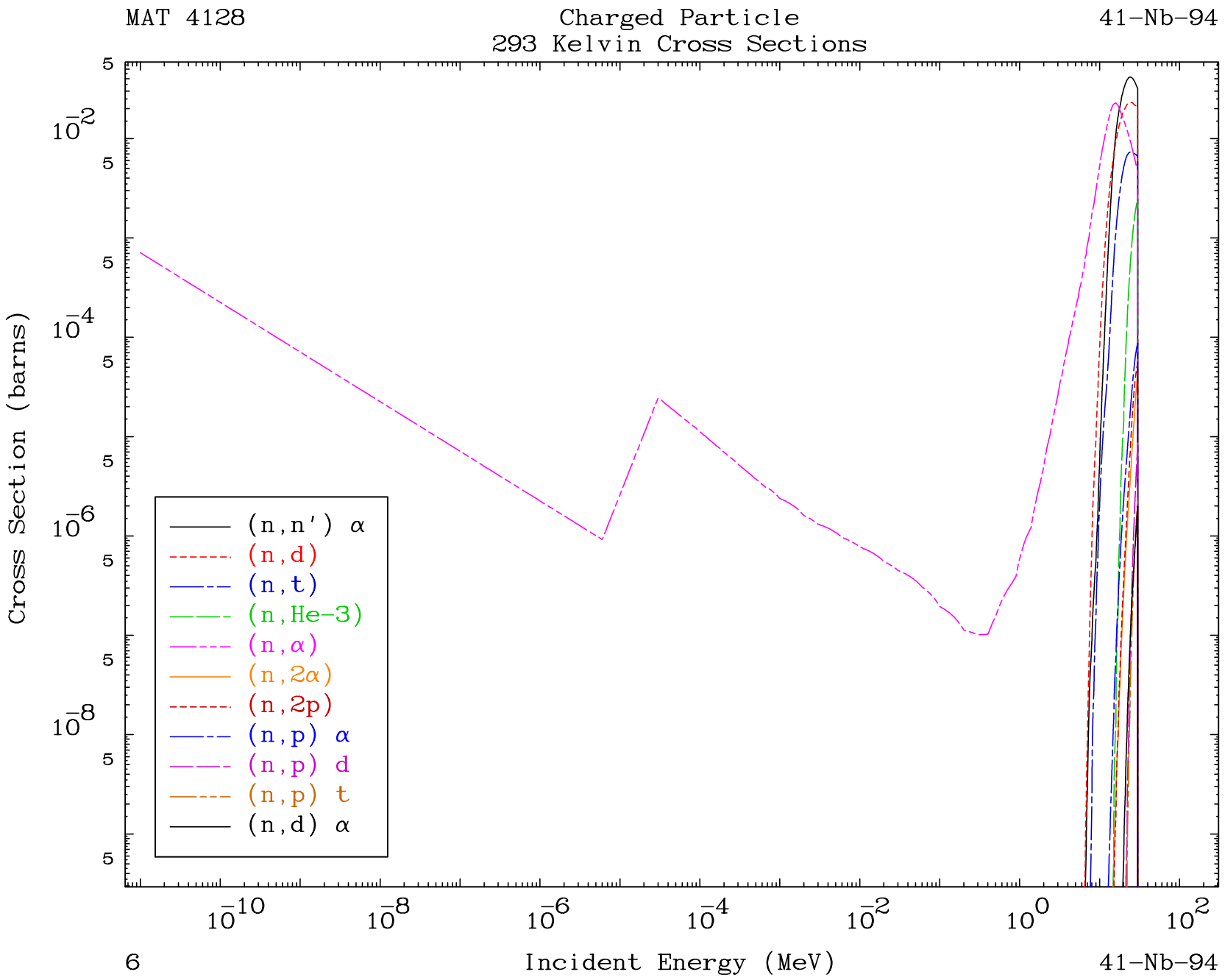

MAT 4128
Neutron Major
293 Kelvin Cross Sections
41-Nb-94
Cross Section (barns)
Incident Energy (MeV)
Total
Elastic
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)
1
41-Nb-94

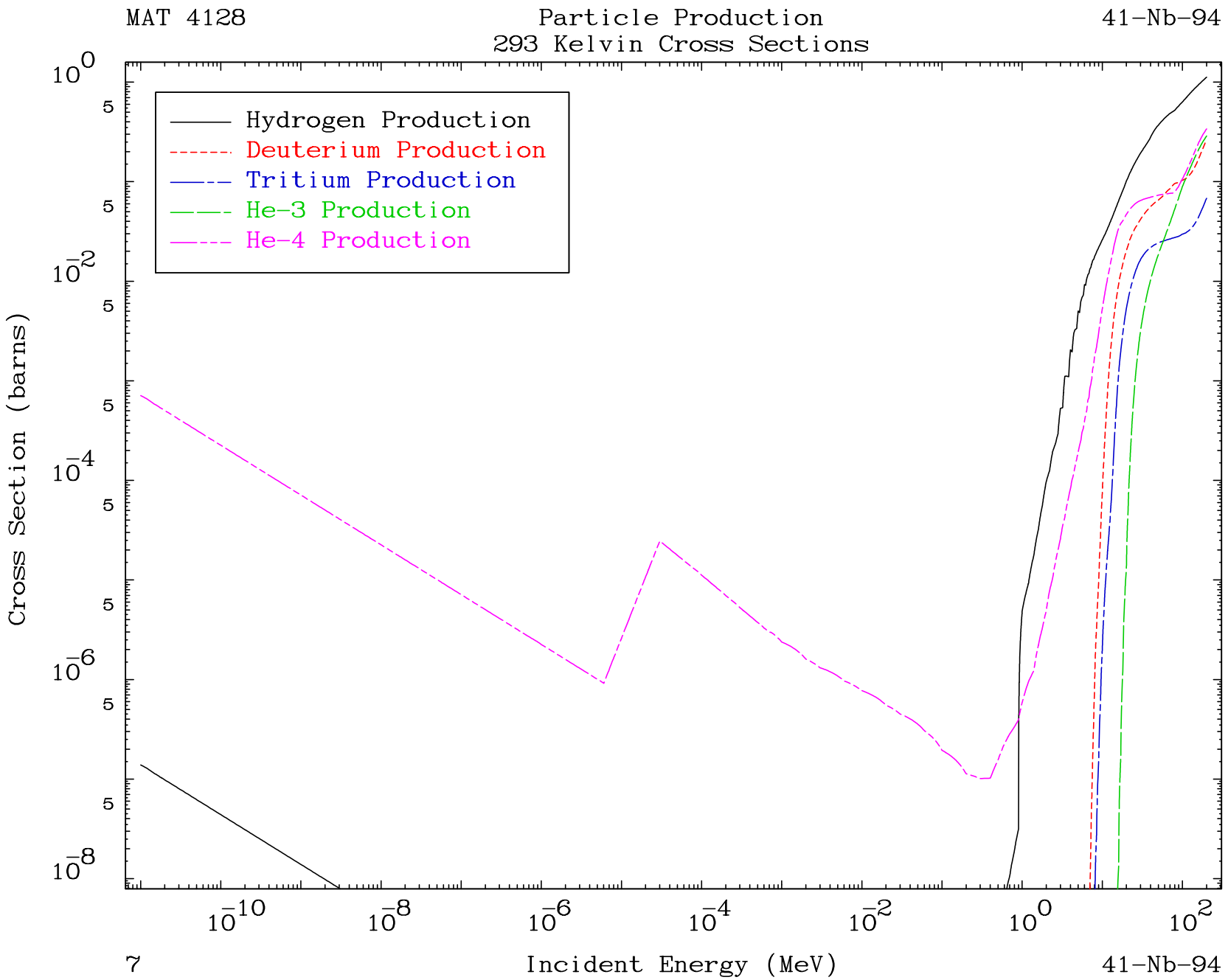

MAT 4128
Neutron Absorption
293 Kelvin Cross Sections
41-Nb-94
Cross Section (barns)
Incident Energy (MeV)
(n,2n) d
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
(n,n') He-3
41-Nb-94
2

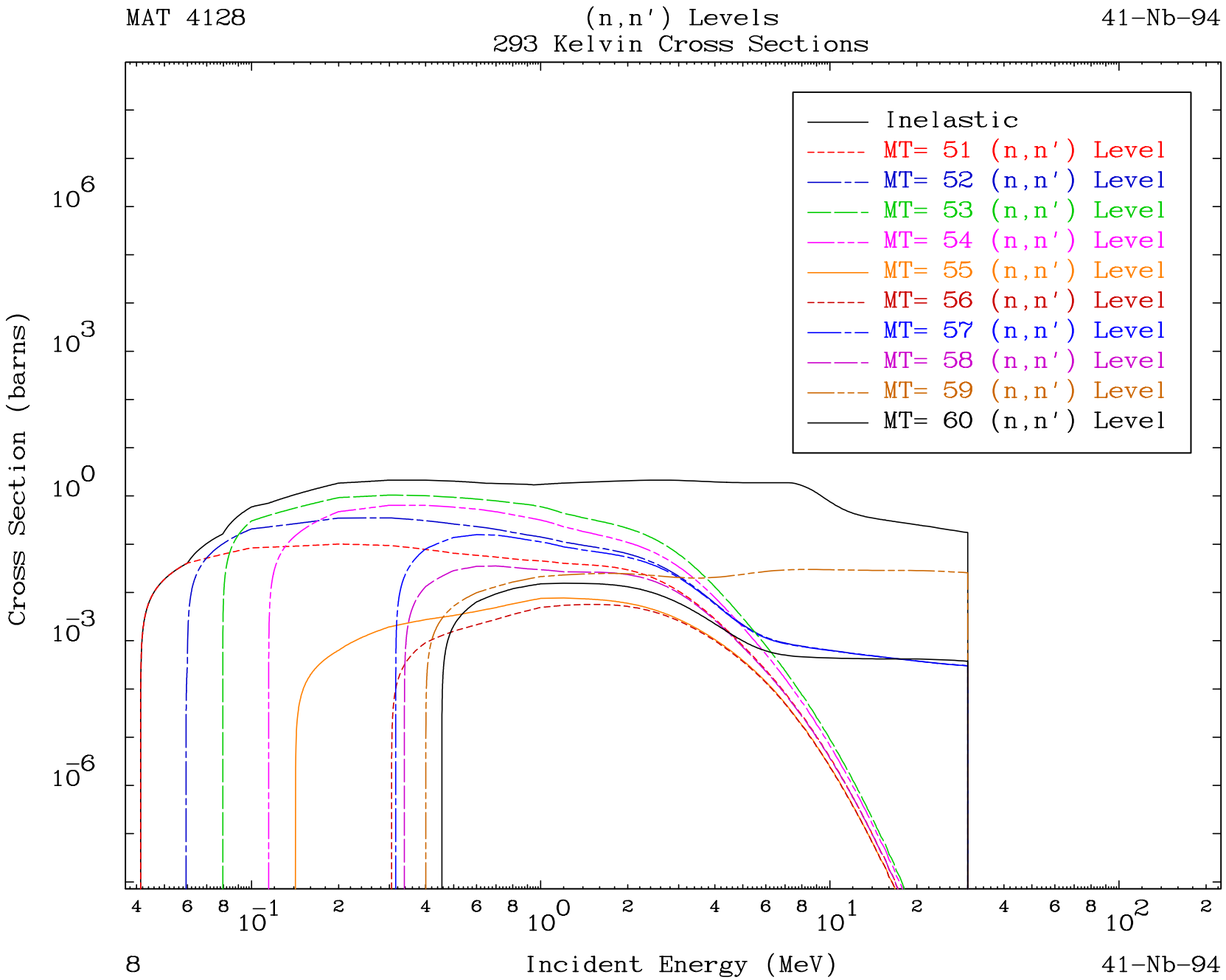

MAT 4128
Neutron Absorption
293 Kelvin Cross Sections
41-Nb-94
Cross Section (barns)
Incident Energy (MeV)
(n,4n)
(n,2n) p
(n,3n) p
(n,2n) p
(n,n') p α
(n,γ)
(n,p)
(n,d)
(n,t)
(n,He-3)
(n,α)
3
41-Nb-94

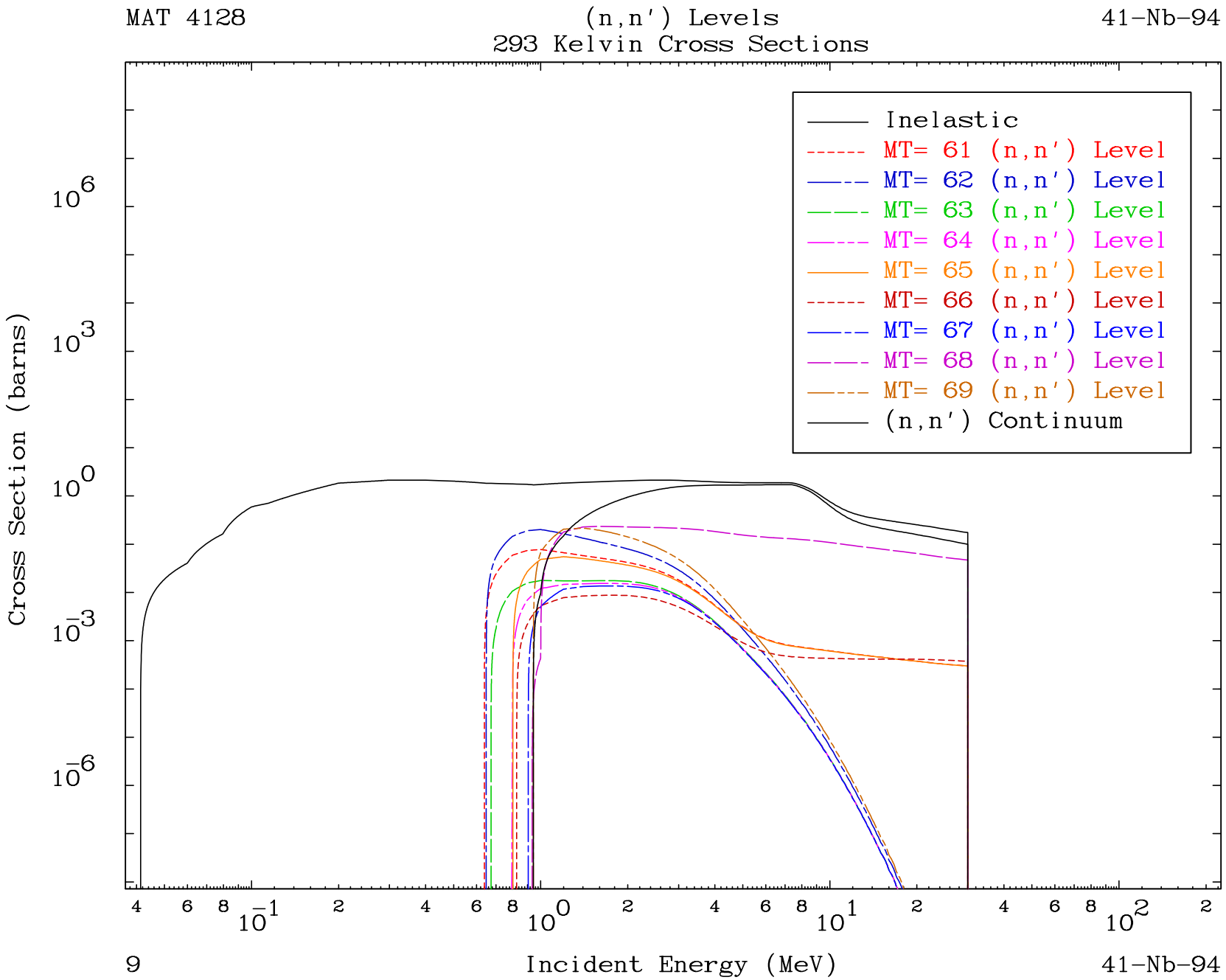

MAT 4128
Neutron Absorption
293 Kelvin Cross Sections
41-Nb-94
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production
Cross Section (barns)
10^0
10^-2
10^-4
10^-6
10^-8
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
Incident Energy (MeV)
4
41-Nb-94

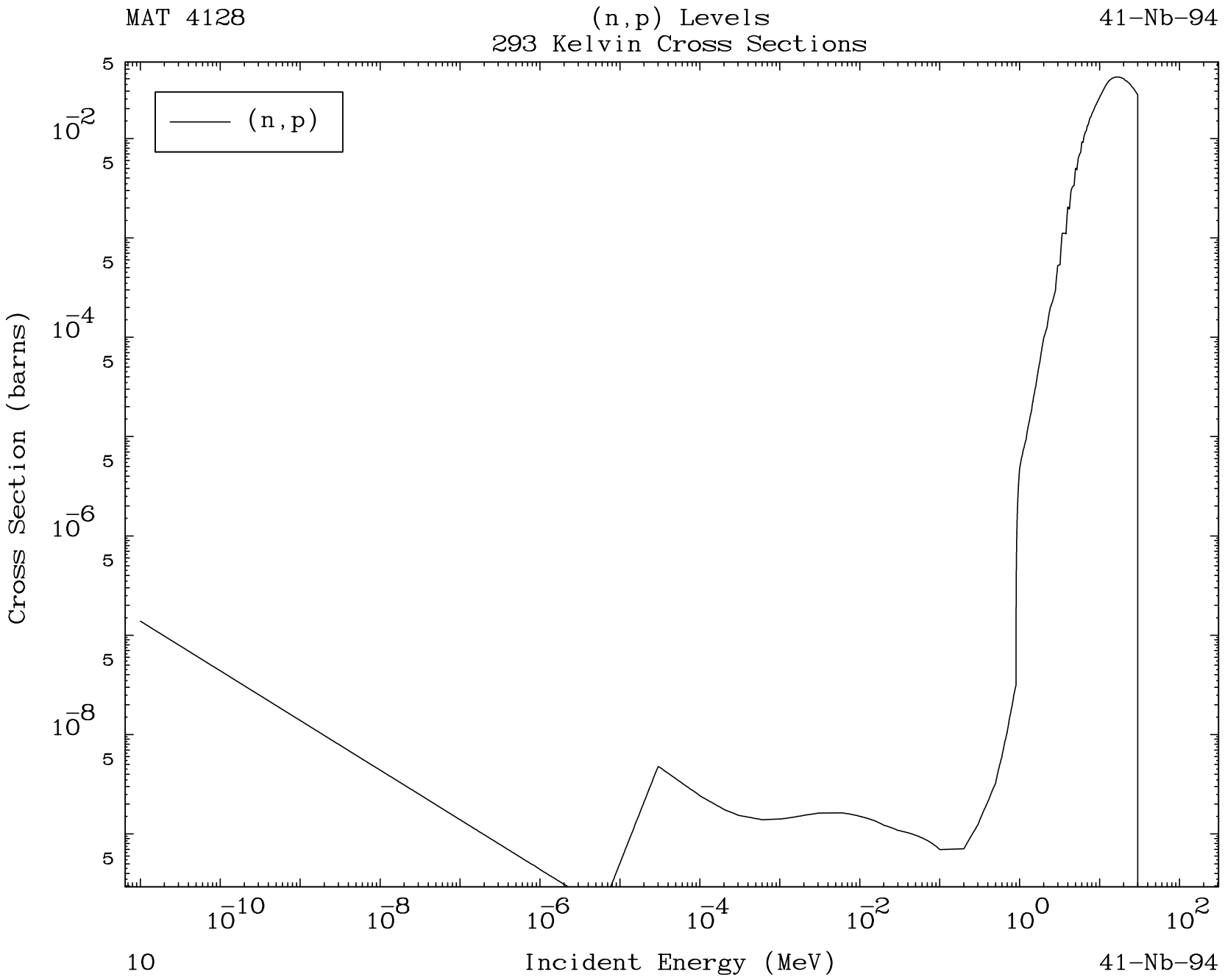

MAT 4128
Charged Particle
41-Nb-94
293 Kelvin Cross Sections
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
(n,3n) p
(n,p)
Cross Section (barns)
Incident Energy (MeV)
41-Nb-94

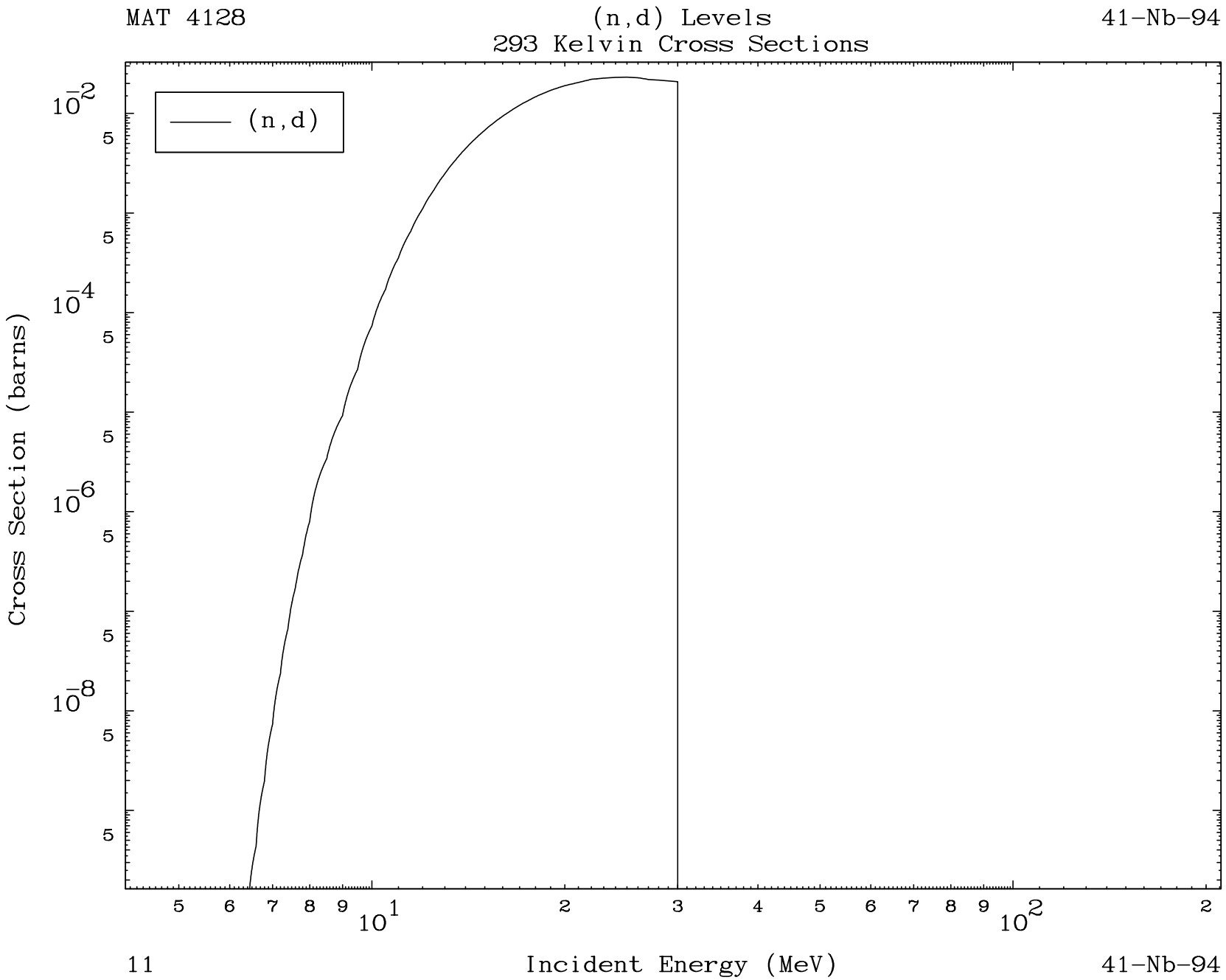

MAT 4128
Charged Particle
293 Kelvin Cross Sections
41-Nb-94
Cross Section (barns)
Incident Energy (MeV)
(n,n') α
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
6
41-Nb-94

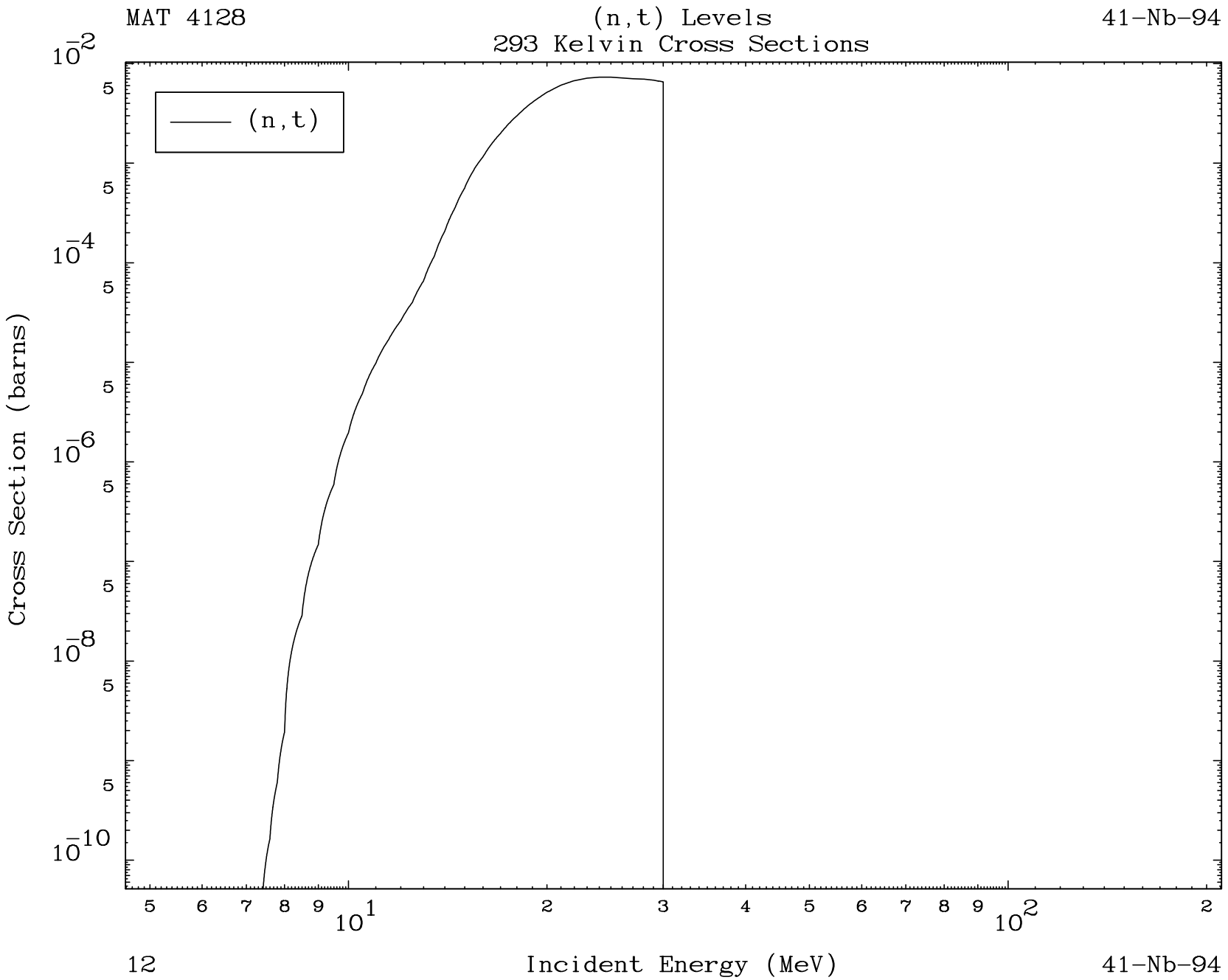

MAT 4128
Particle Production
293 Kelvin Cross Sections
41-Nb-94
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production
Cross Section (barns)
Incident Energy (MeV)
41-Nb-94
7

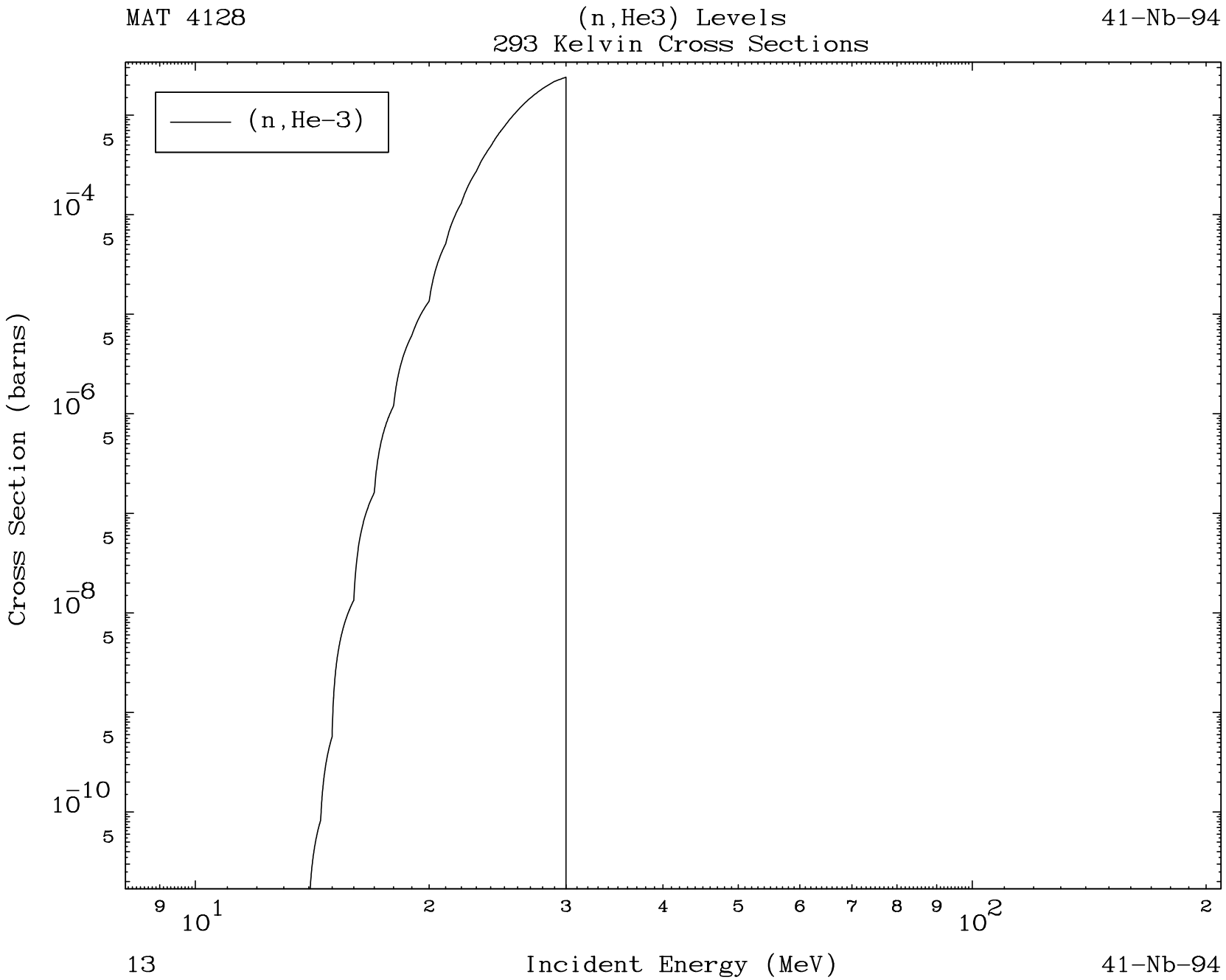

MAT 4128
(n,n') Levels
293 Kelvin Cross Sections
41-Nb-94
Inelastic
MT= 51 (n,n') Level
MT= 52 (n,n') Level
MT= 53 (n,n') Level
MT= 54 (n,n') Level
MT= 55 (n,n') Level
MT= 56 (n,n') Level
MT= 57 (n,n') Level
MT= 58 (n,n') Level
MT= 59 (n,n') Level
MT= 60 (n,n') Level
Cross Section (barns)
Incident Energy (MeV)
8
41-Nb-94

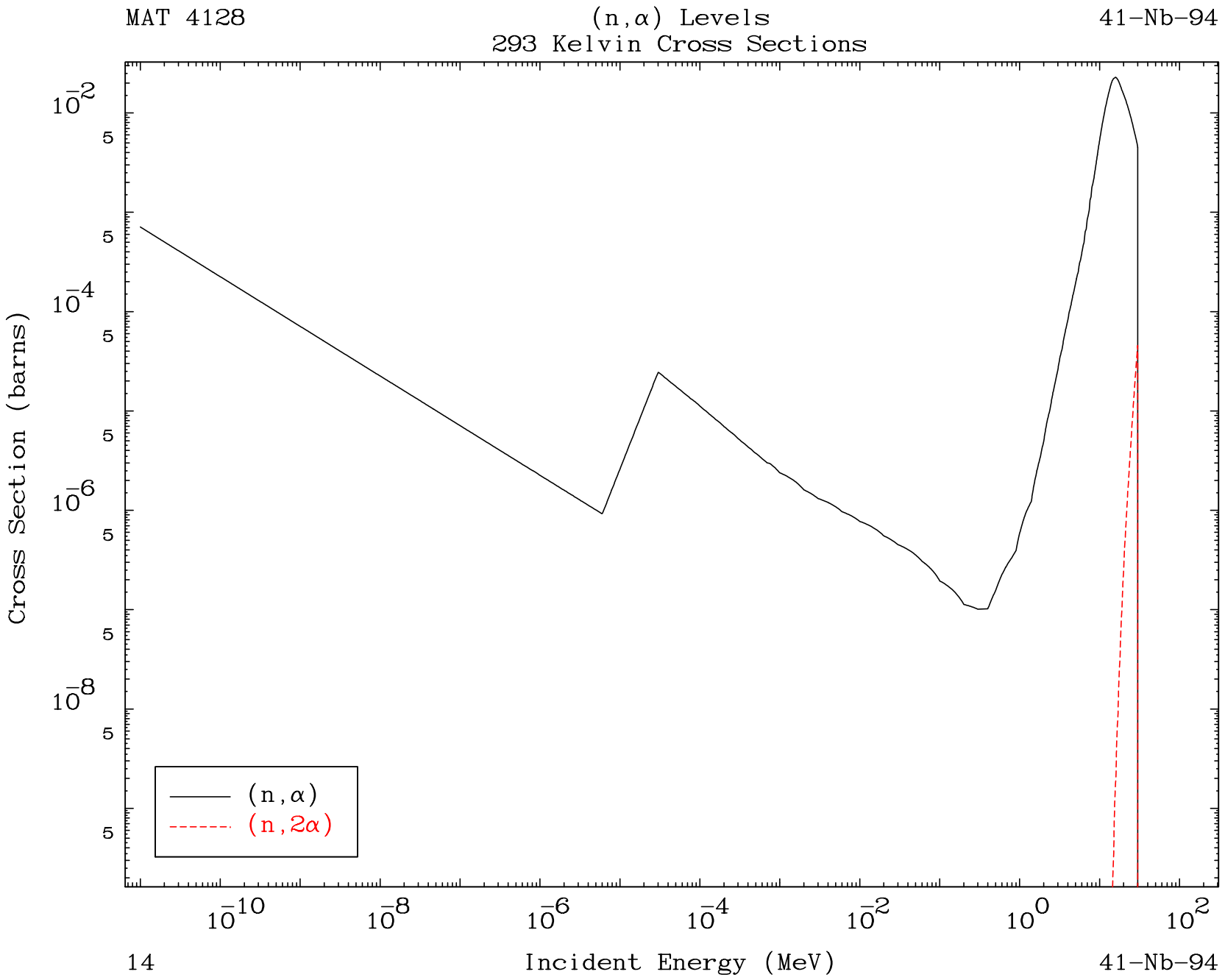

MAT 4128
(n,n') Levels
293 Kelvin Cross Sections
41-Nb-94
Inelastic
MT= 61 (n,n') Level
MT= 62 (n,n') Level
MT= 63 (n,n') Level
MT= 64 (n,n') Level
MT= 65 (n,n') Level
MT= 66 (n,n') Level
MT= 67 (n,n') Level
MT= 68 (n,n') Level
MT= 69 (n,n') Level
(n,n') Continuum
Cross Section (barns)
10^6
10^3
10^0
10^-3
10^-6
4 6 8 10^-1 2 4 6 8 10^0 2 4 6 8 10^1 2 4 6 8 10^2 2
Incident Energy (MeV)
9
41-Nb-94

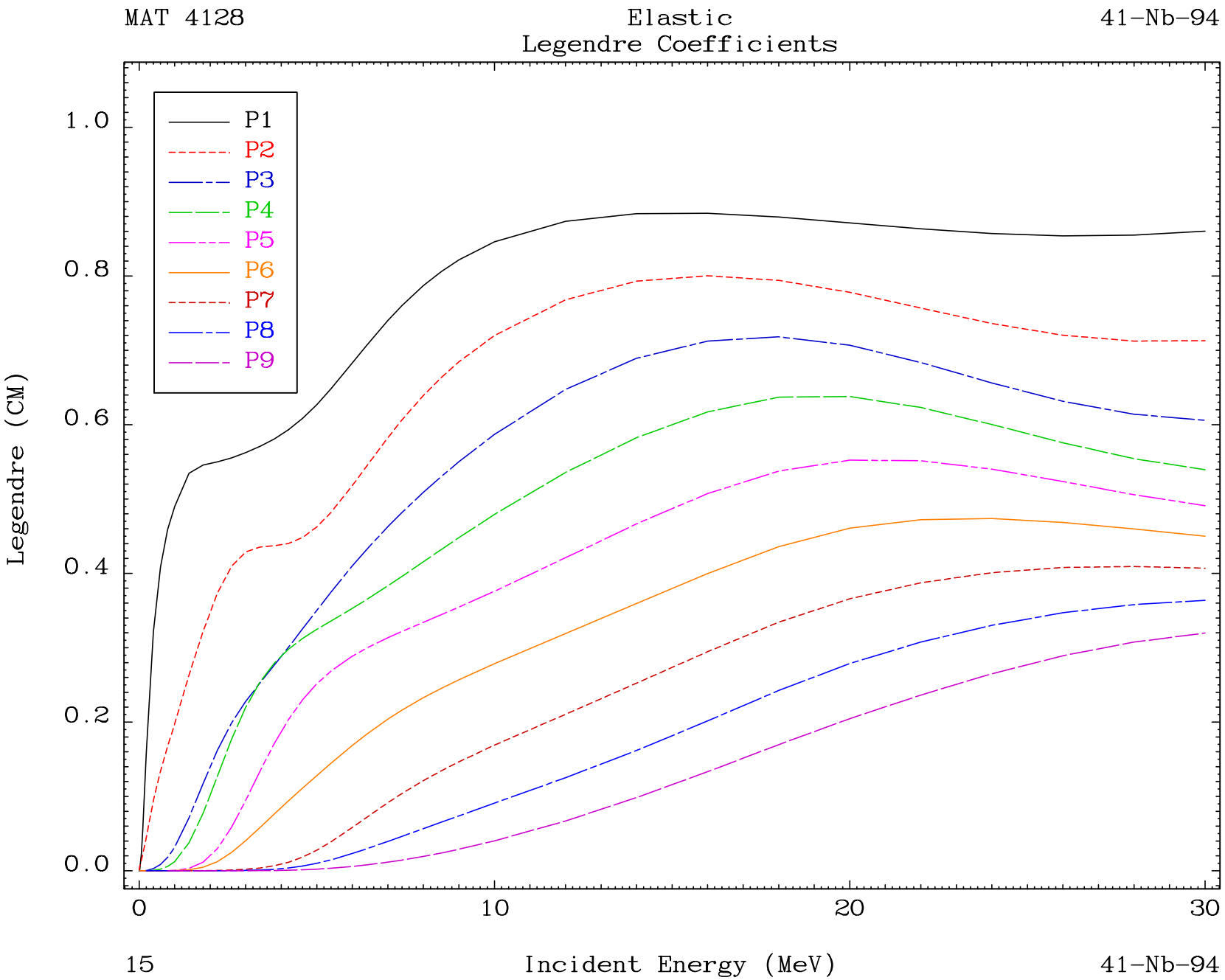

MAT 4128
(n,p) Levels
41-Nb-94
293 Kelvin Cross Sections
(n,p)
Cross Section (barns)
Incident Energy (MeV)
41-Nb-94
10

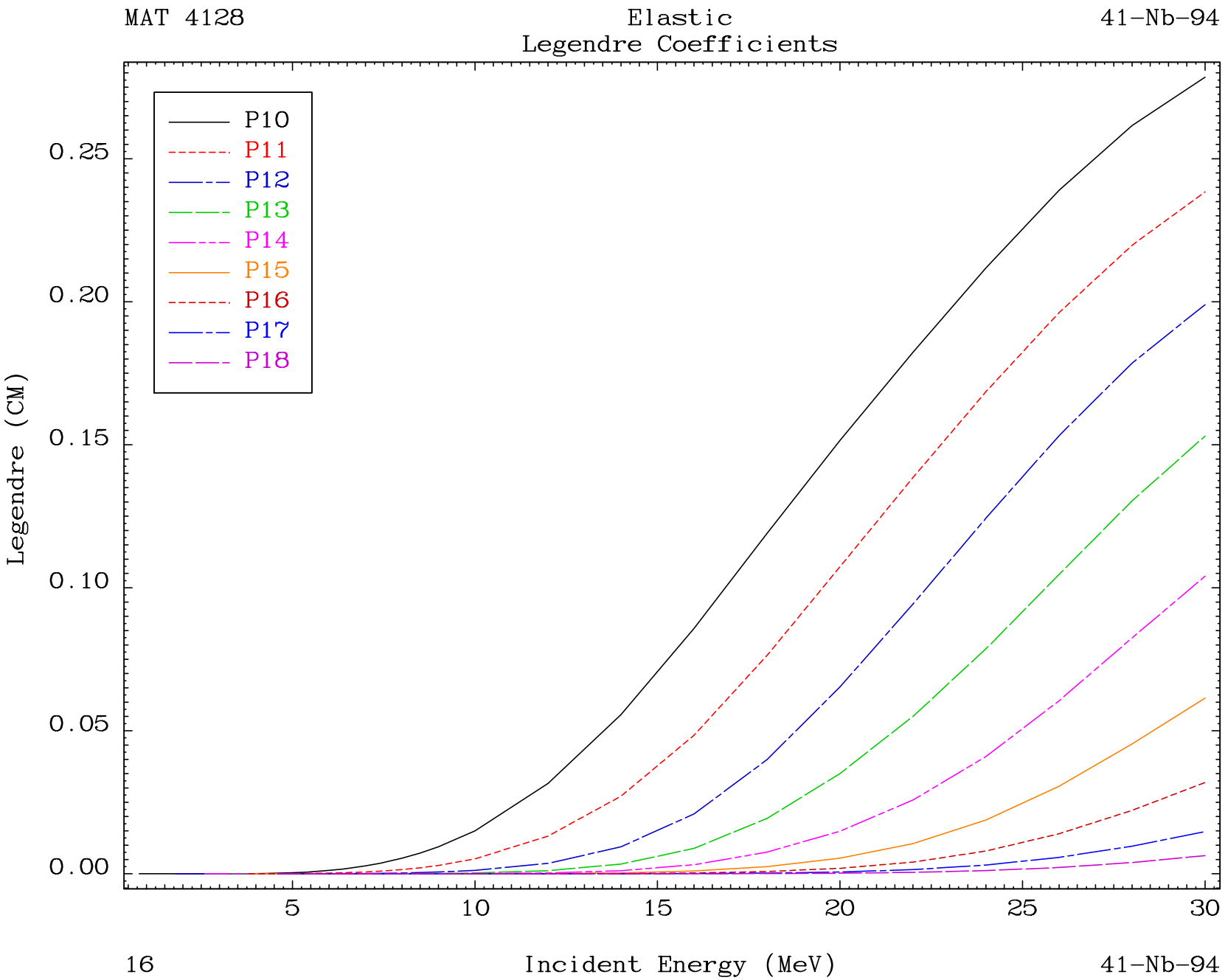

MAT 4128
(n,d) Levels
41-Nb-94
293 Kelvin Cross Sections
(n,d)
Cross Section (barns)
Incident Energy (MeV)
11
41-Nb-94

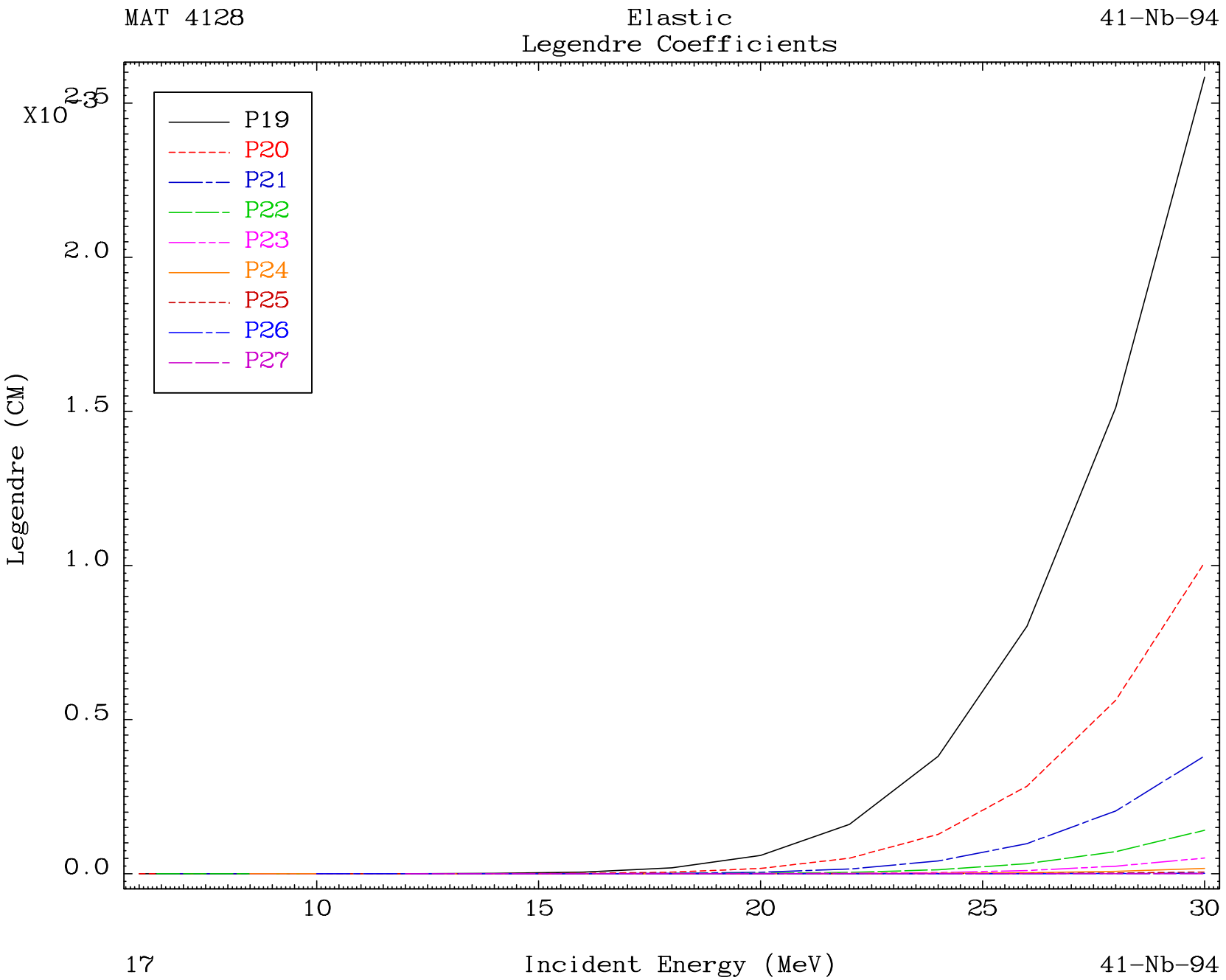

MAT 4128
(n,t) Levels
41-Nb-94
293 Kelvin Cross Sections
(n,t)
Cross Section (barns)
Incident Energy (MeV)
12
41-Nb-94

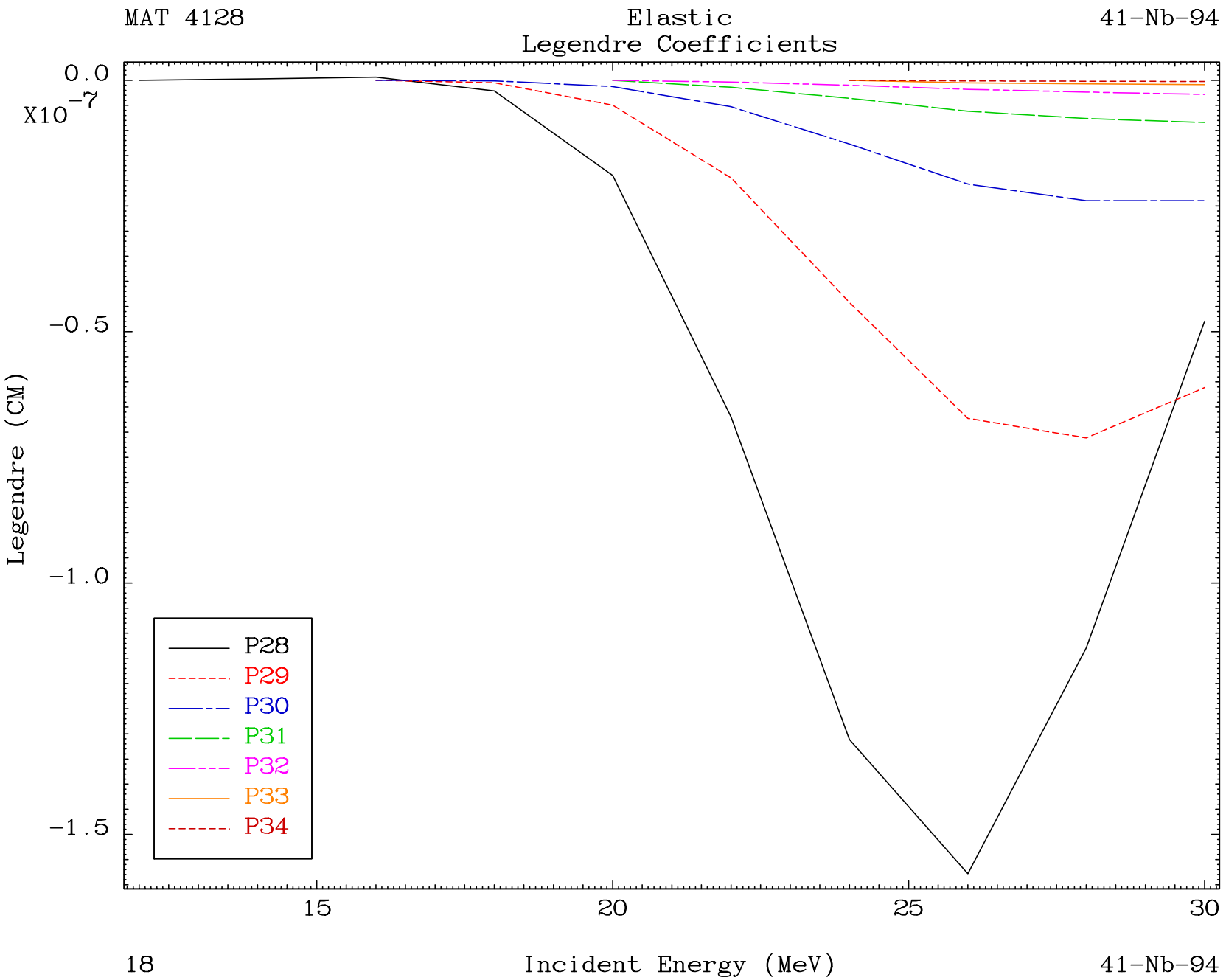

MAT 4128
(n,He3) Levels
41-Nb-94
293 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
9
10^1
2
3
4
5
6
7
8
9
10^2
2
13
Incident Energy (MeV)
41-Nb-94

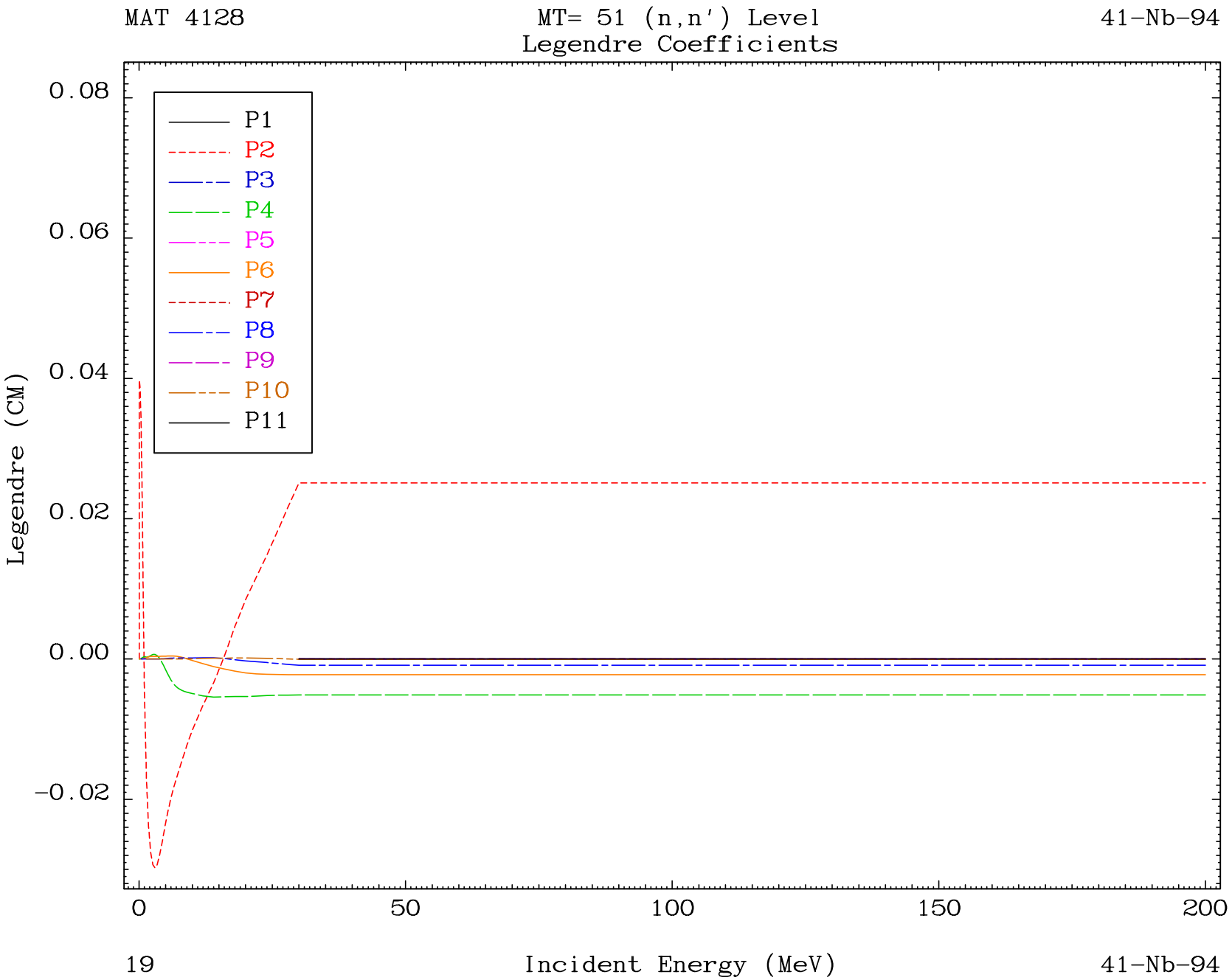

MAT 4128
(n,α) Levels
41-Nb-94
293 Kelvin Cross Sections
Cross Section (barns)
10-2
10-4
10-6
10-8
10-10
10-8
10-6
10-4
10-2
100
102
Incident Energy (MeV)
(n,α)
(n,2α)
14
41-Nb-94

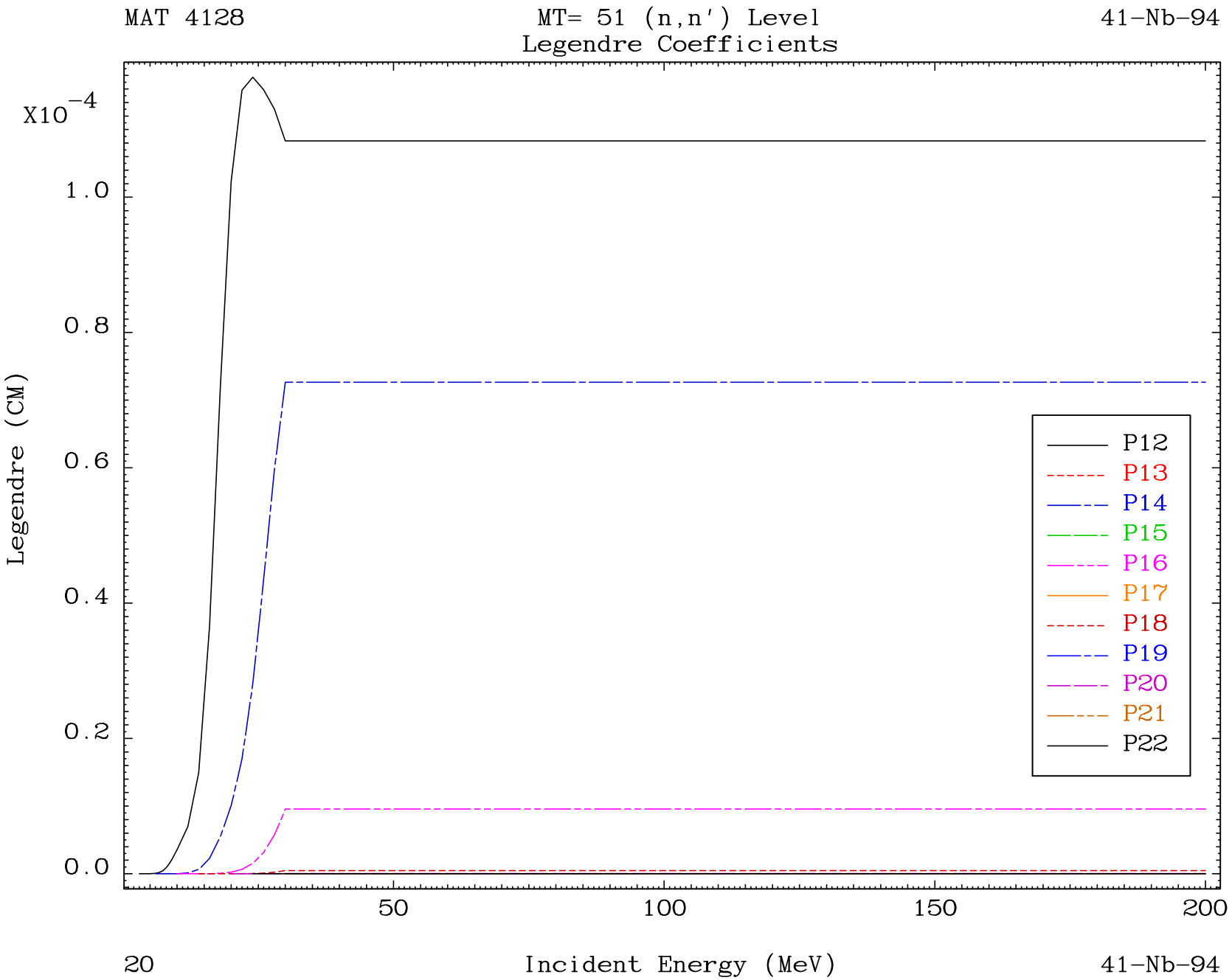

MAT 4128
Elastic
Legendre Coefficients
41-Nb-94
P1
P2
P3
P4
P5
P6
P7
P8
P9
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
0
10
20
30
15
Incident Energy (MeV)
41-Nb-94

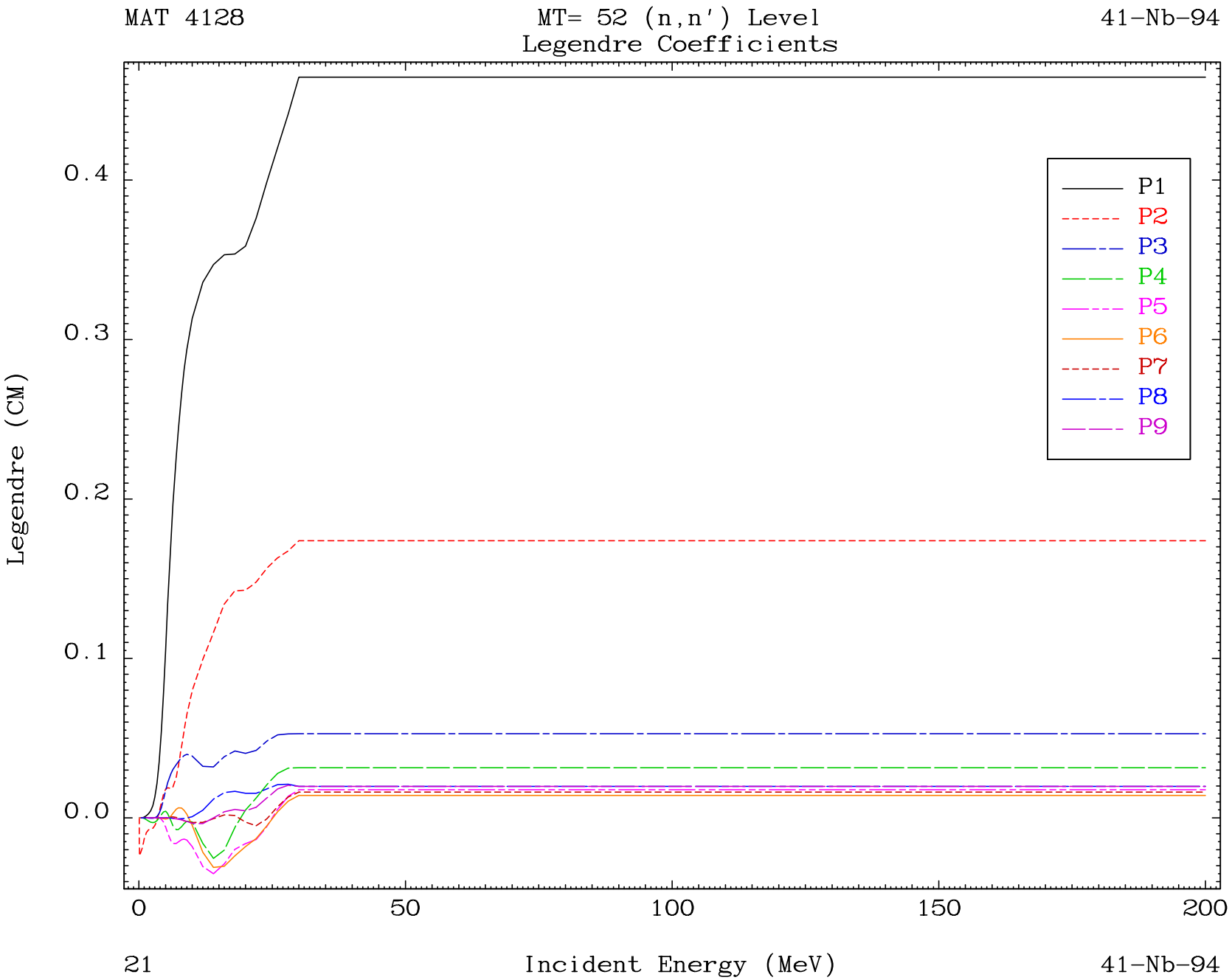

MAT 4128
Elastic
Legendre Coefficients
41-Nb-94
P10
P11
P12
P13
P14
P15
P16
P17
P18
Legendre (CM)
0.25
0.20
0.15
0.10
0.05
0.00
5
10
15
20
25
30
16
Incident Energy (MeV)
41-Nb-94

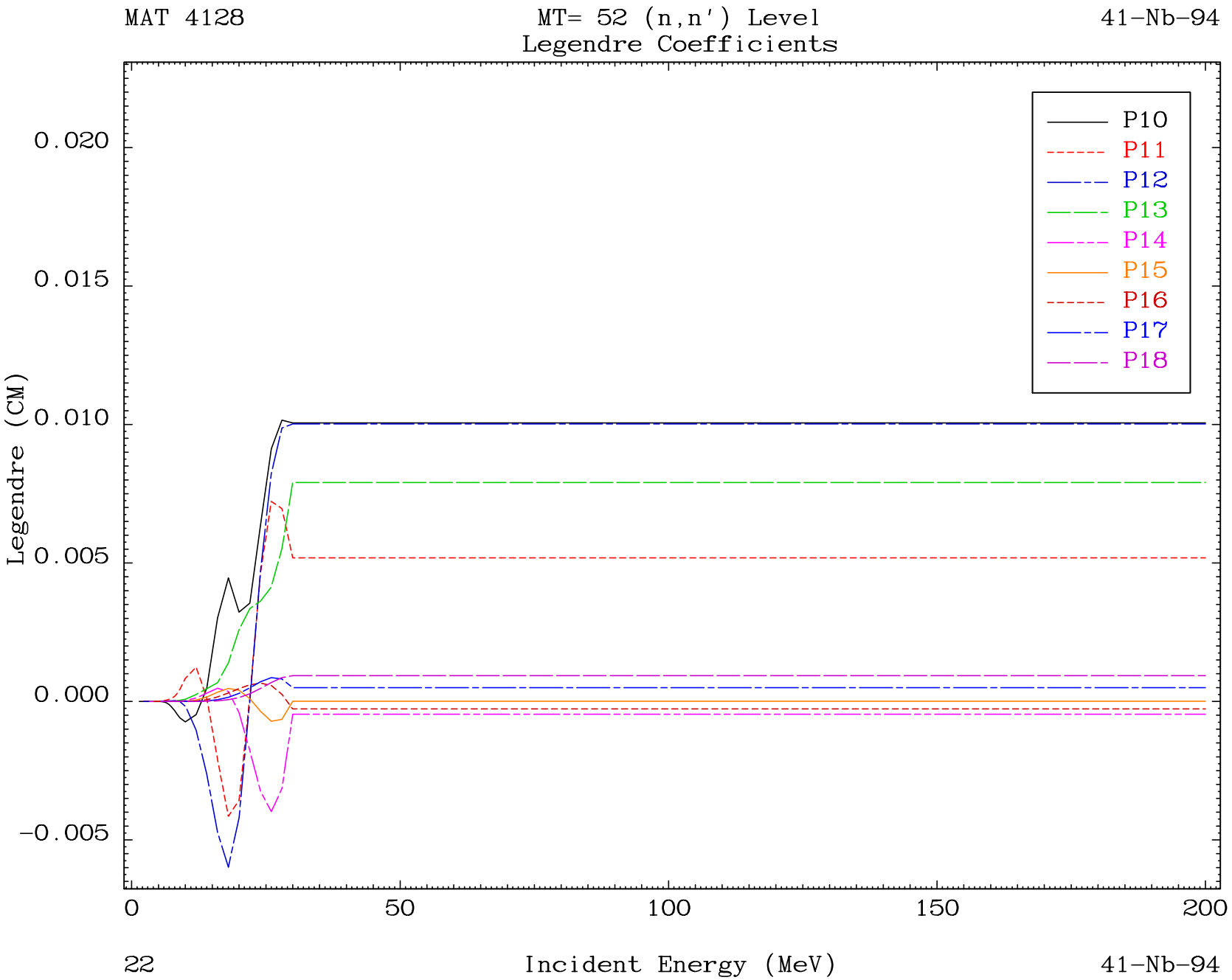

MAT 4128
Elastic
Legendre Coefficients
41-Nb-94
X10-3
2.5
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
10
15
20
25
30
17
Incident Energy (MeV)
41-Nb-94

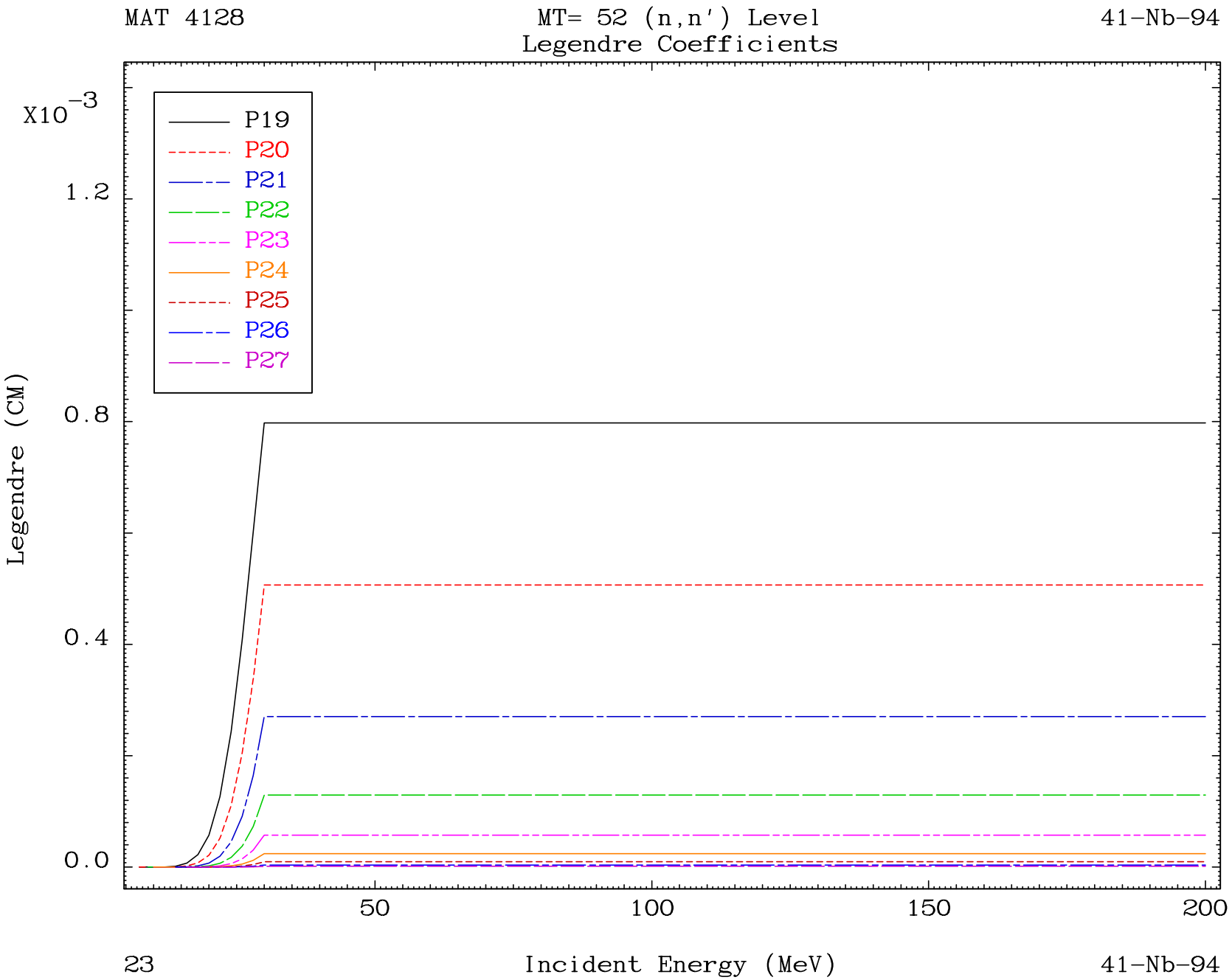

MAT 4128
Elastic
Legendre Coefficients
41-Nb-94
0.0
X10-7
-0.5
-1.0
-1.5
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
15
20
25
30
18
Incident Energy (MeV)
41-Nb-94

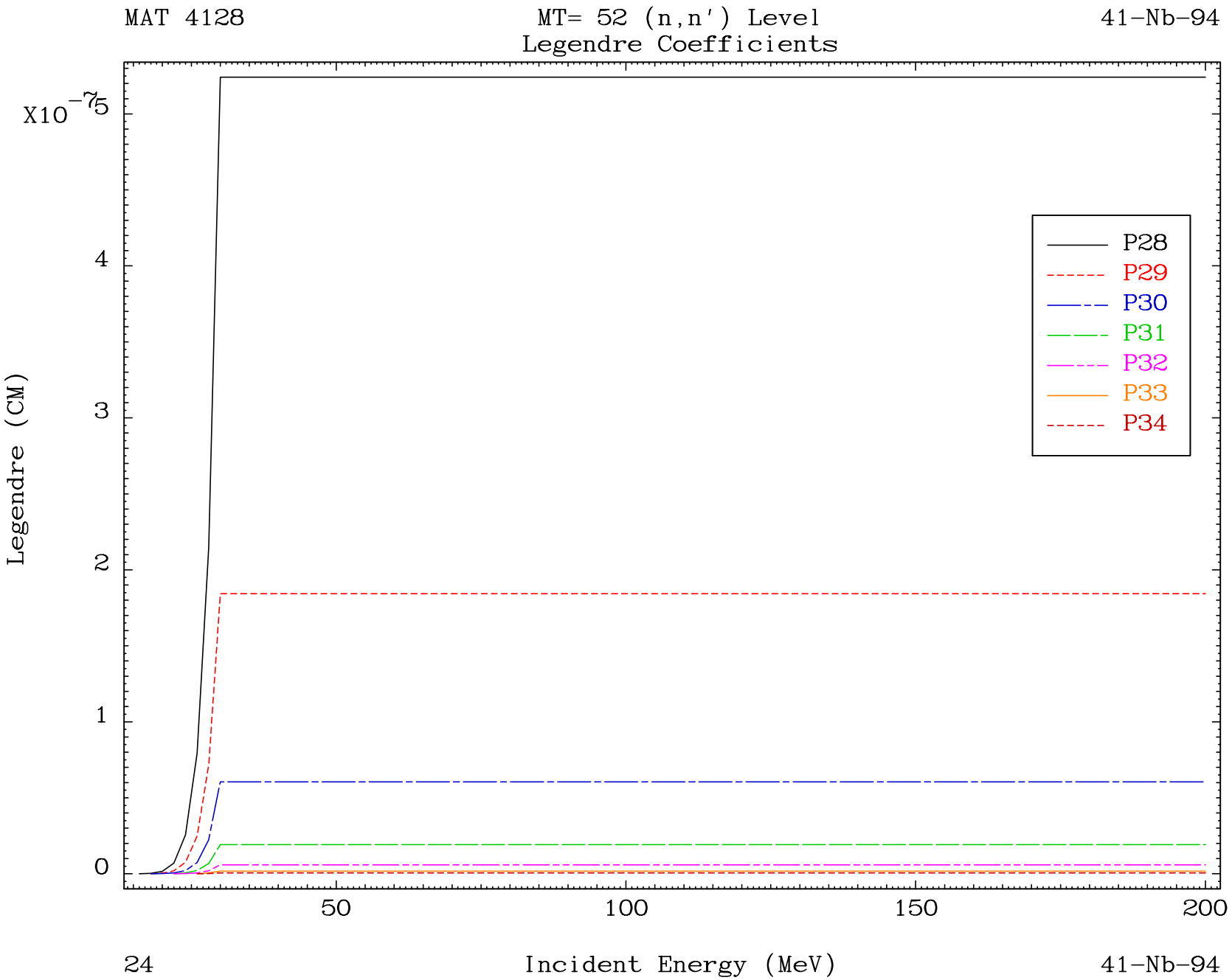

MAT 4128
MT= 51 (n,n') Level
Legendre Coefficients
41-Nb-94
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11
0.08
0.06
0.04
0.02
0.00
-0.02
Legendre (CM)
0
50
100
150
200
19
Incident Energy (MeV)
41-Nb-94

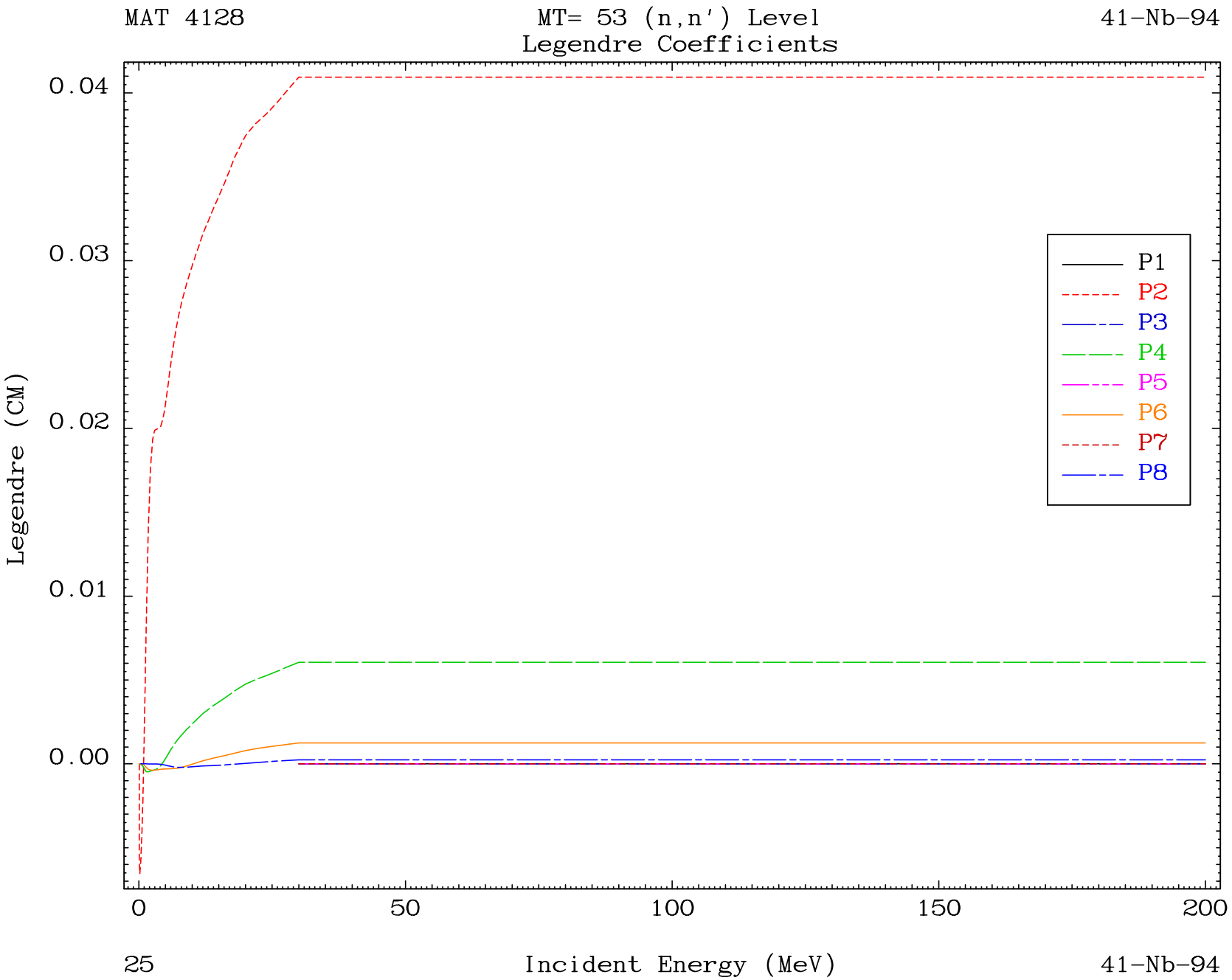

MAT 4128
MT= 51 (n,n') Level
Legendre Coefficients
41-Nb-94
X10^-4
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
50
100
150
200
20
Incident Energy (MeV)
41-Nb-94
P12
P13
P14
P15
P16
P17
P18
P19
P20
P21
P22

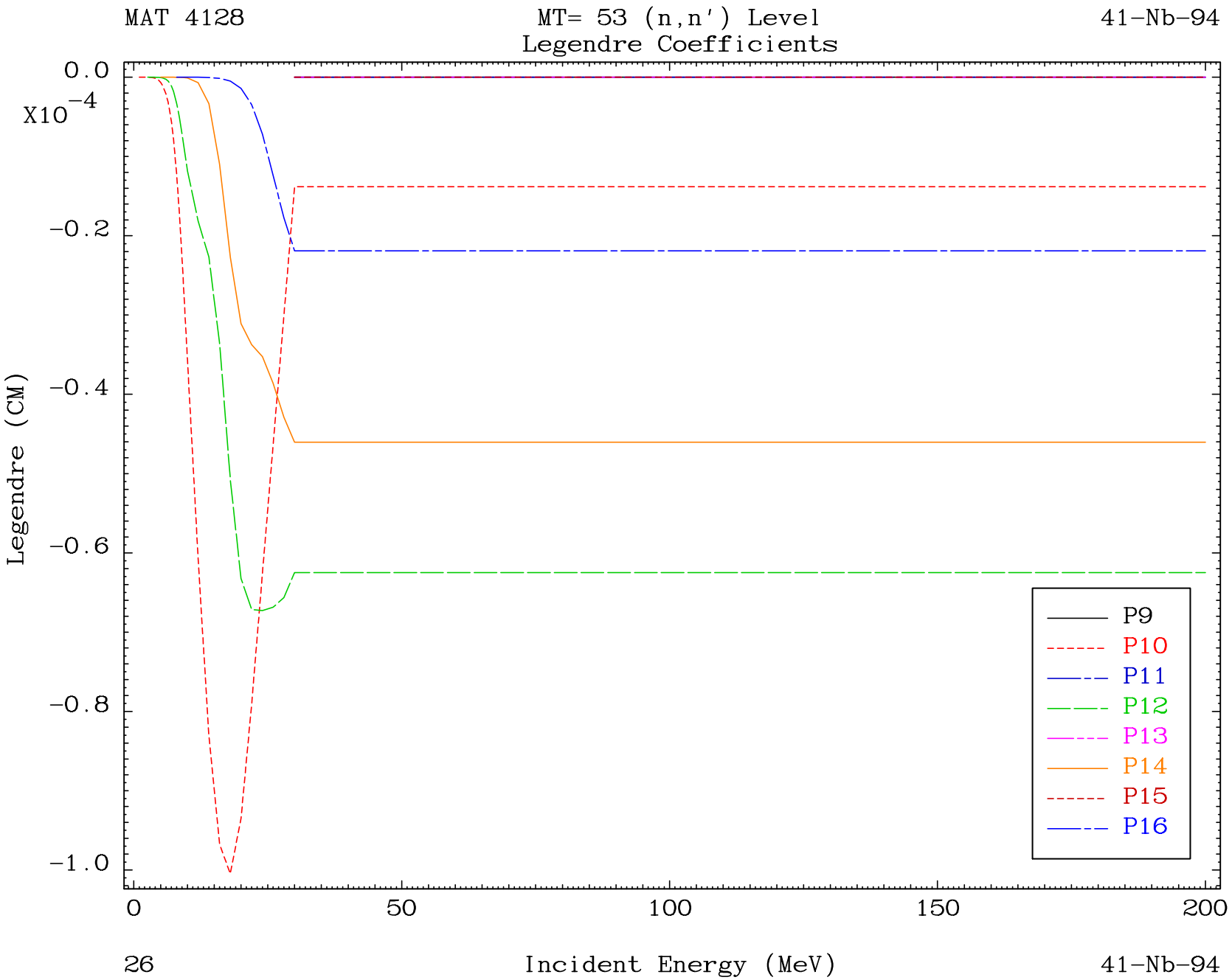

MAT 4128
MT= 52 (n,n') Level
Legendre Coefficients
41-Nb-94
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
21
Incident Energy (MeV)
41-Nb-94
P1
P2
P3
P4
P5
P6
P7
P8
P9

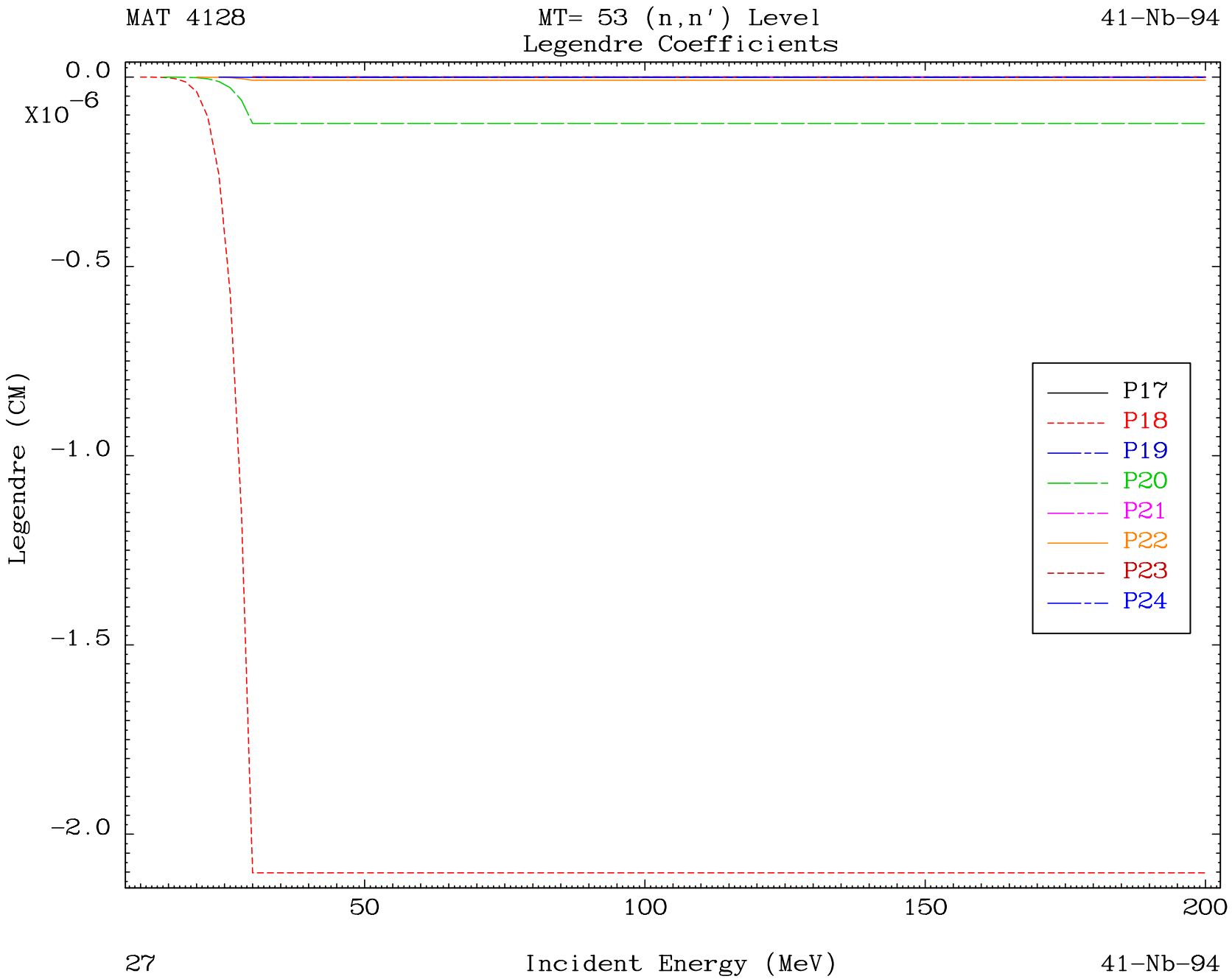

MAT 4128
MT= 52 (n,n') Level
Legendre Coefficients
41-Nb-94
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.020
0.015
0.010
0.005
0.000
-0.005
Legendre (CM)
0
50
100
150
200
22
Incident Energy (MeV)
41-Nb-94

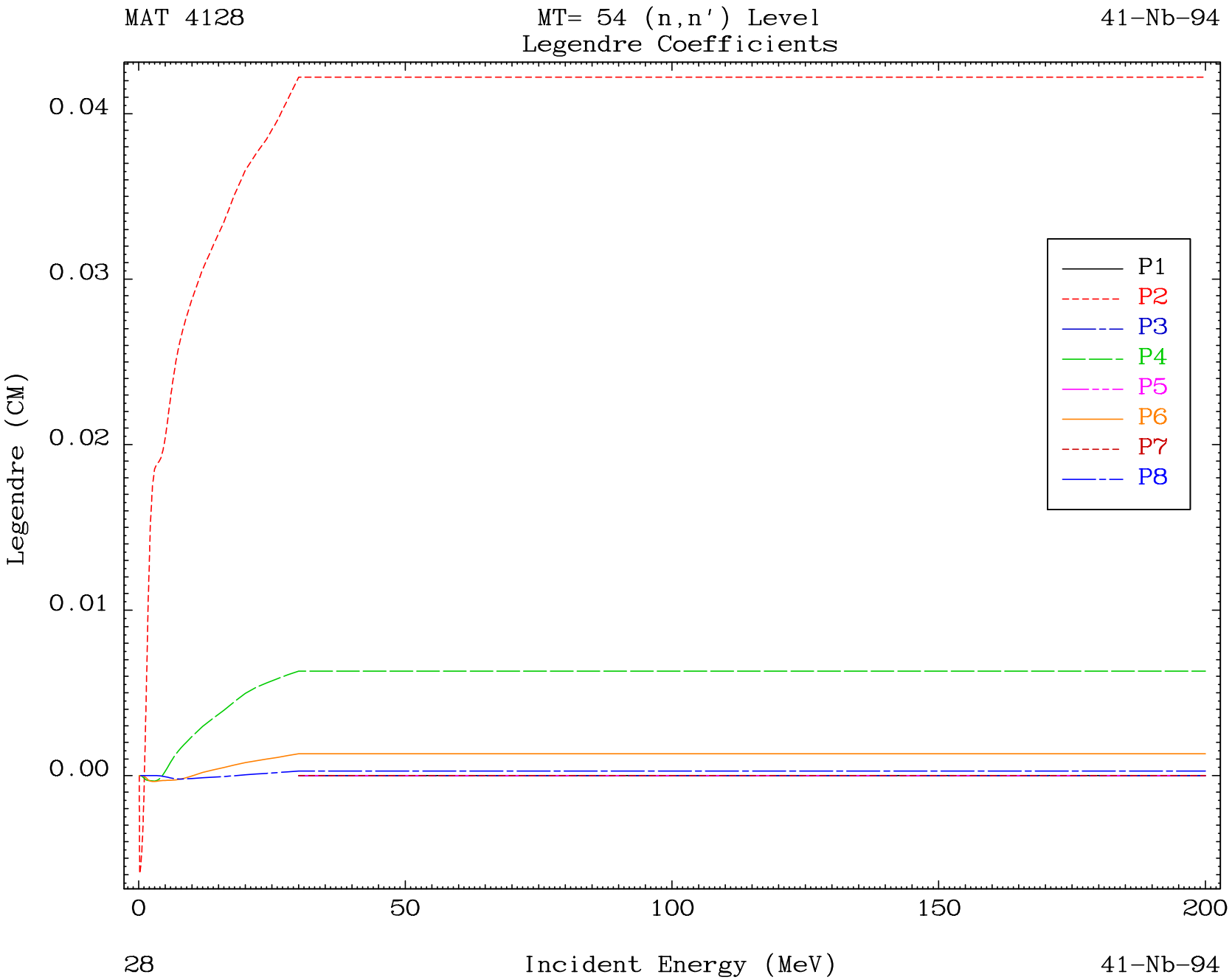

MAT 4128
MT= 52 (n,n') Level
Legendre Coefficients
41-Nb-94
X10^-3
1.2
0.8
0.4
0.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
23
Incident Energy (MeV)
41-Nb-94

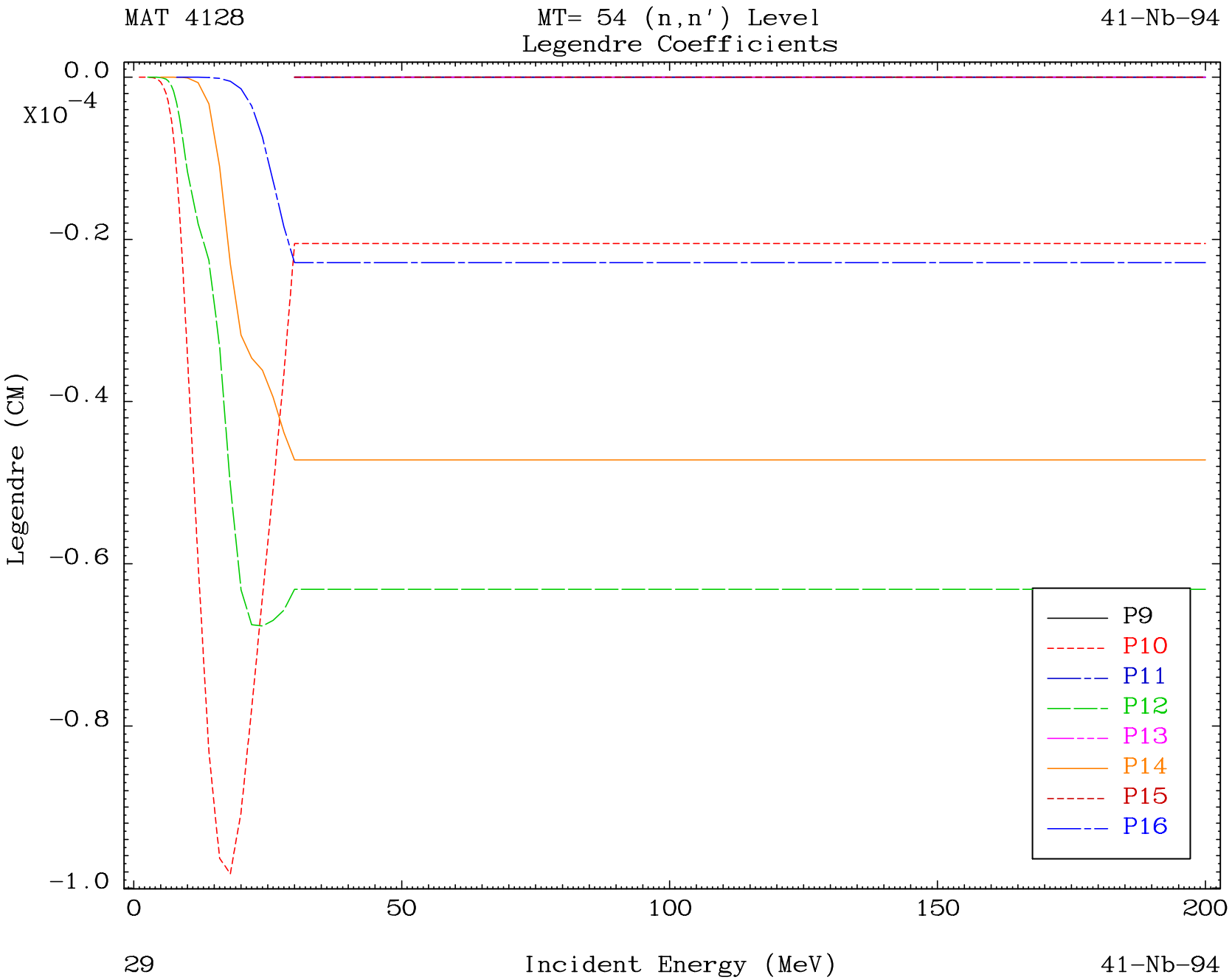

MAT 4128
MT= 52 (n,n') Level
Legendre Coefficients
41-Nb-94
X10^-7
5
4
3
2
1
0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
24
Incident Energy (MeV)
41-Nb-94

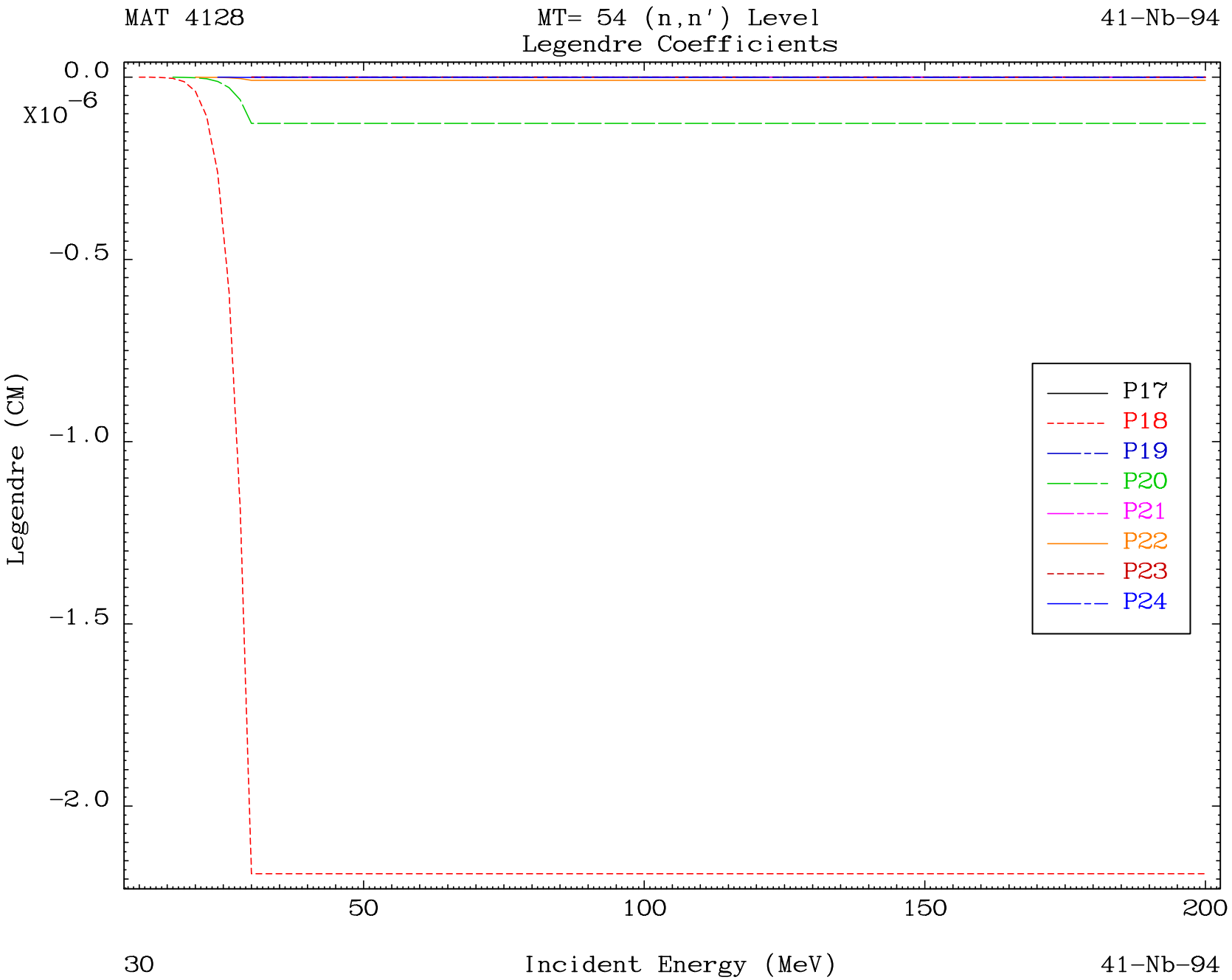

MAT 4128
MT= 53 (n,n') Level
Legendre Coefficients
41-Nb-94
0.04
0.03
0.02
0.01
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
0
50
100
150
200
25
Incident Energy (MeV)
41-Nb-94

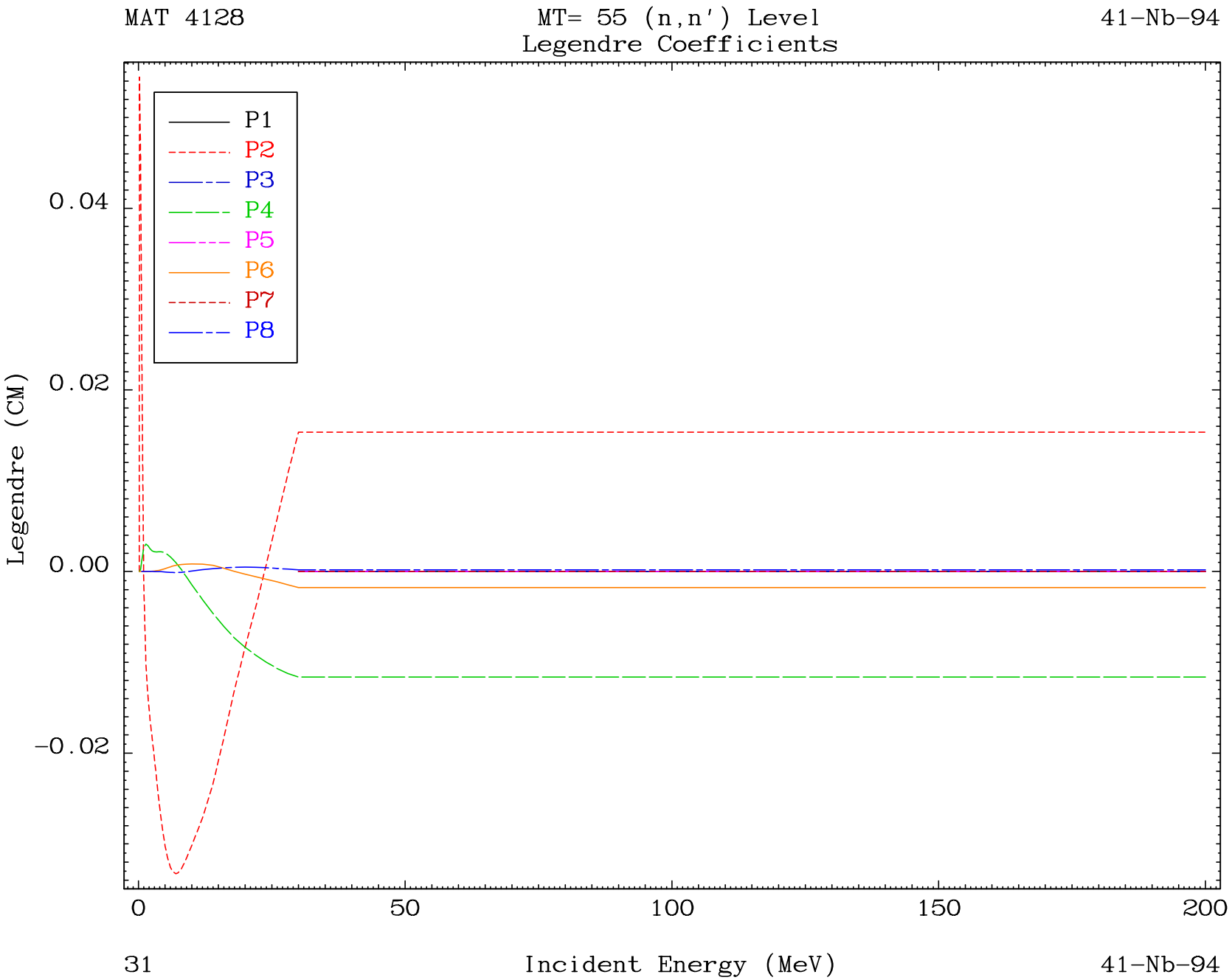

MAT 4128
MT= 53 (n,n') Level
Legendre Coefficients
41-Nb-94
0.0
X10^-4
-0.2
-0.4
-0.6
-0.8
-1.0
Legendre (CM)
0
50
100
150
200
26
Incident Energy (MeV)
41-Nb-94
P9
P10
P11
P12
P13
P14
P15
P16

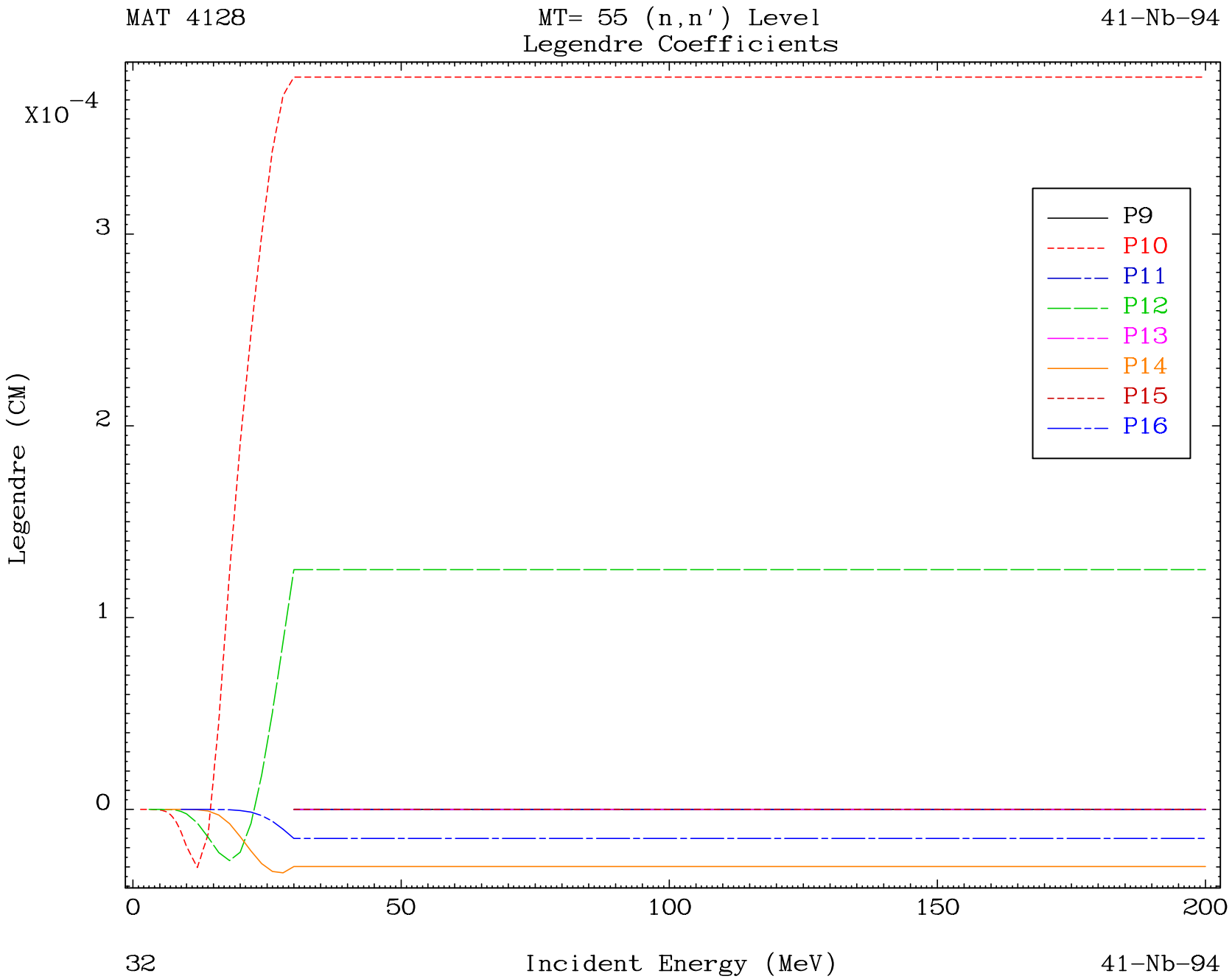

MAT 4128
MT= 53 (n,n') Level
Legendre Coefficients
41-Nb-94
0.0
X10^-6
-0.5
-1.0
-1.5
-2.0
Legendre (CM)
50
100
150
200
27
Incident Energy (MeV)
41-Nb-94
P17
P18
P19
P20
P21
P22
P23
P24

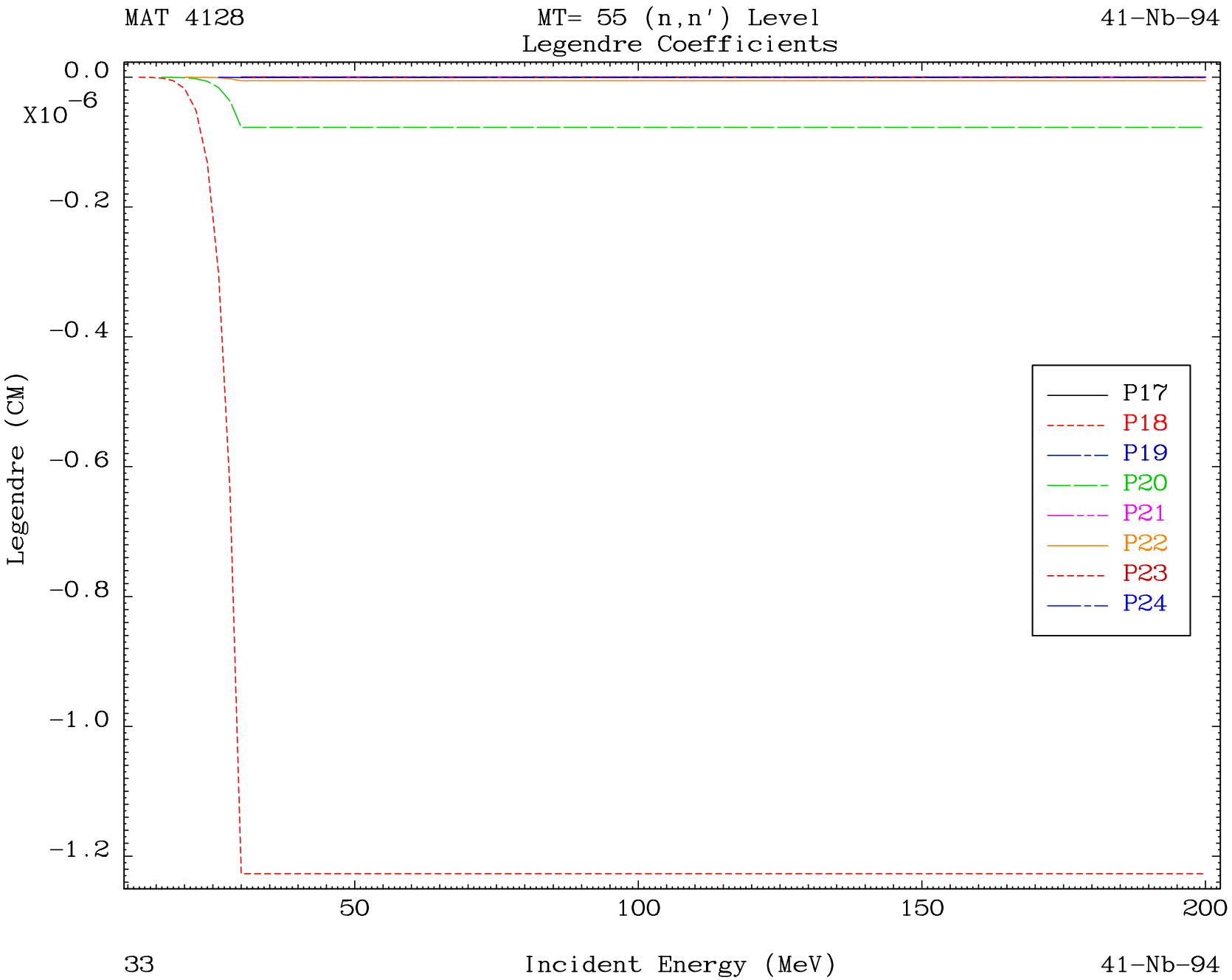

MAT 4128
MT= 54 (n,n') Level
Legendre Coefficients
41-Nb-94
Legendre (CM)
0.04
0.03
0.02
0.01
0.00
0
50
100
150
200
Incident Energy (MeV)
28
41-Nb-94
P1
P2
P3
P4
P5
P6
P7
P8

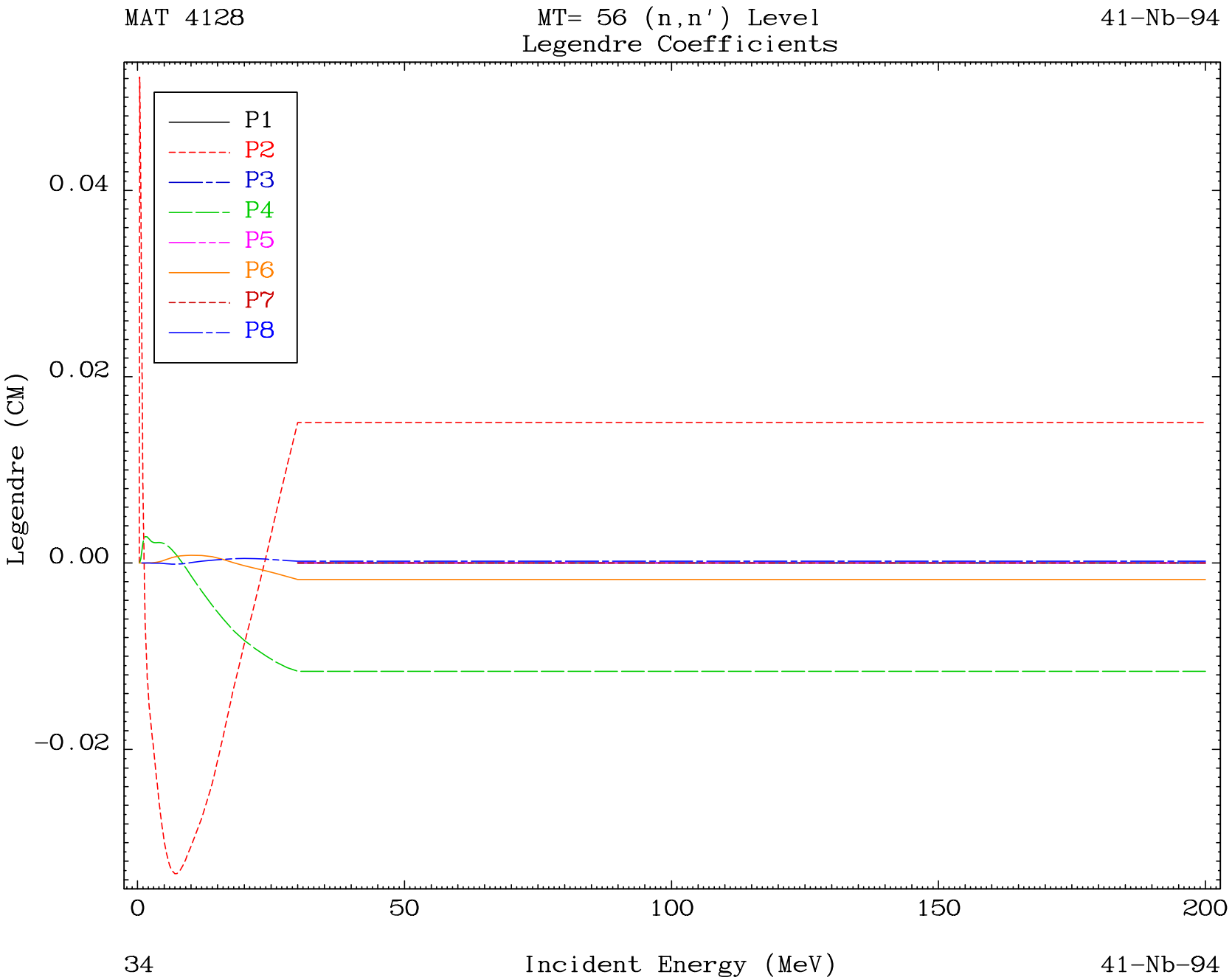

MAT 4128
MT= 54 (n,n') Level
Legendre Coefficients
41-Nb-94
0.0
X10^-4
-0.2
-0.4
-0.6
-0.8
-1.0
Legendre (CM)
0
50
100
150
200
29
Incident Energy (MeV)
41-Nb-94
P9
P10
P11
P12
P13
P14
P15
P16

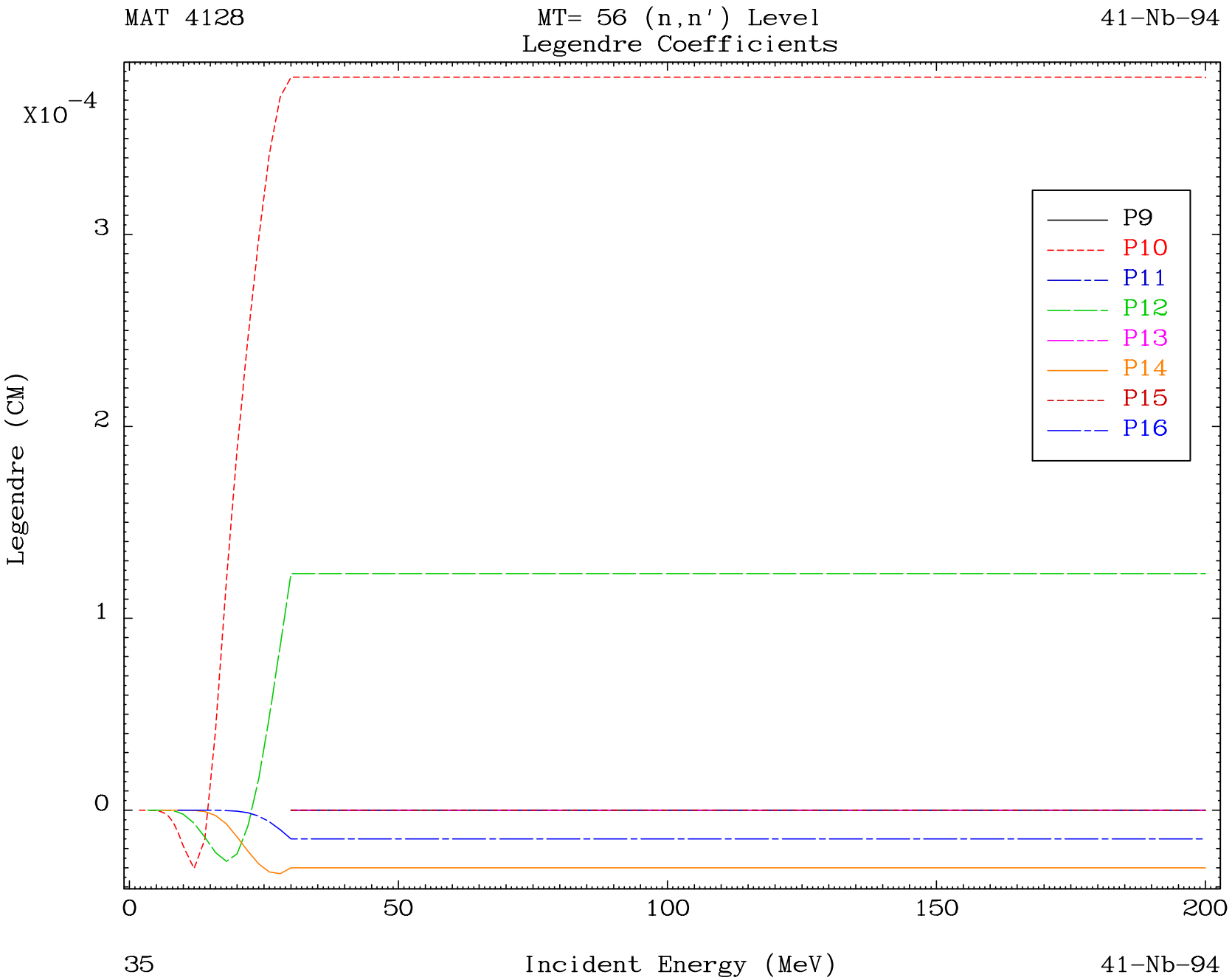

MAT 4128
MT= 54 (n,n') Level
Legendre Coefficients
41-Nb-94
0.0
X10^-6
-0.5
-1.0
-1.5
-2.0
Legendre (CM)
50
100
150
200
30
Incident Energy (MeV)
41-Nb-94
P17
P18
P19
P20
P21
P22
P23
P24

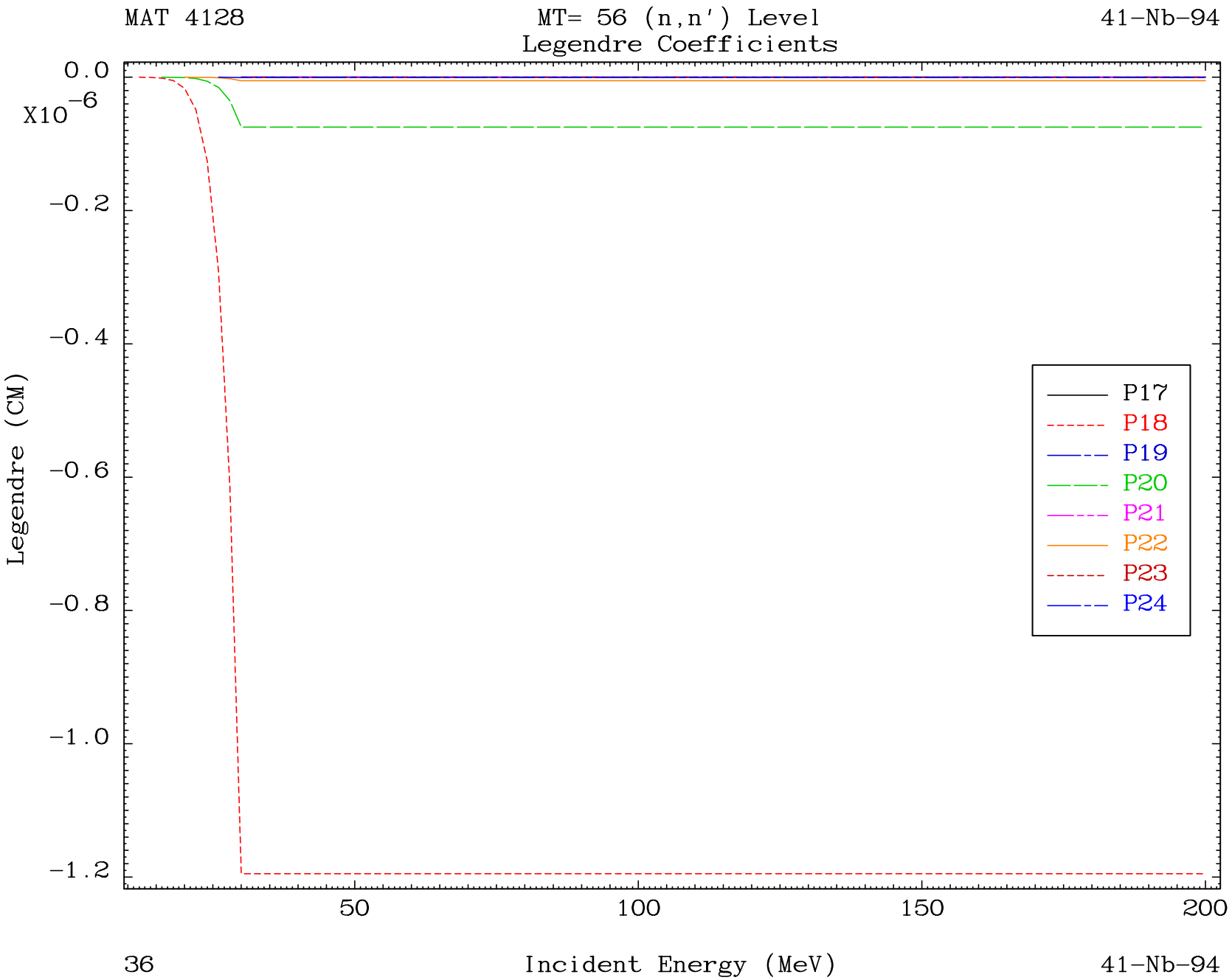

MAT 4128
MT= 55 (n,n') Level
Legendre Coefficients
41-Nb-94
P1
P2
P3
P4
P5
P6
P7
P8
0.04
0.02
0.00
-0.02
Legendre (CM)
0
50
100
150
200
31
Incident Energy (MeV)
41-Nb-94

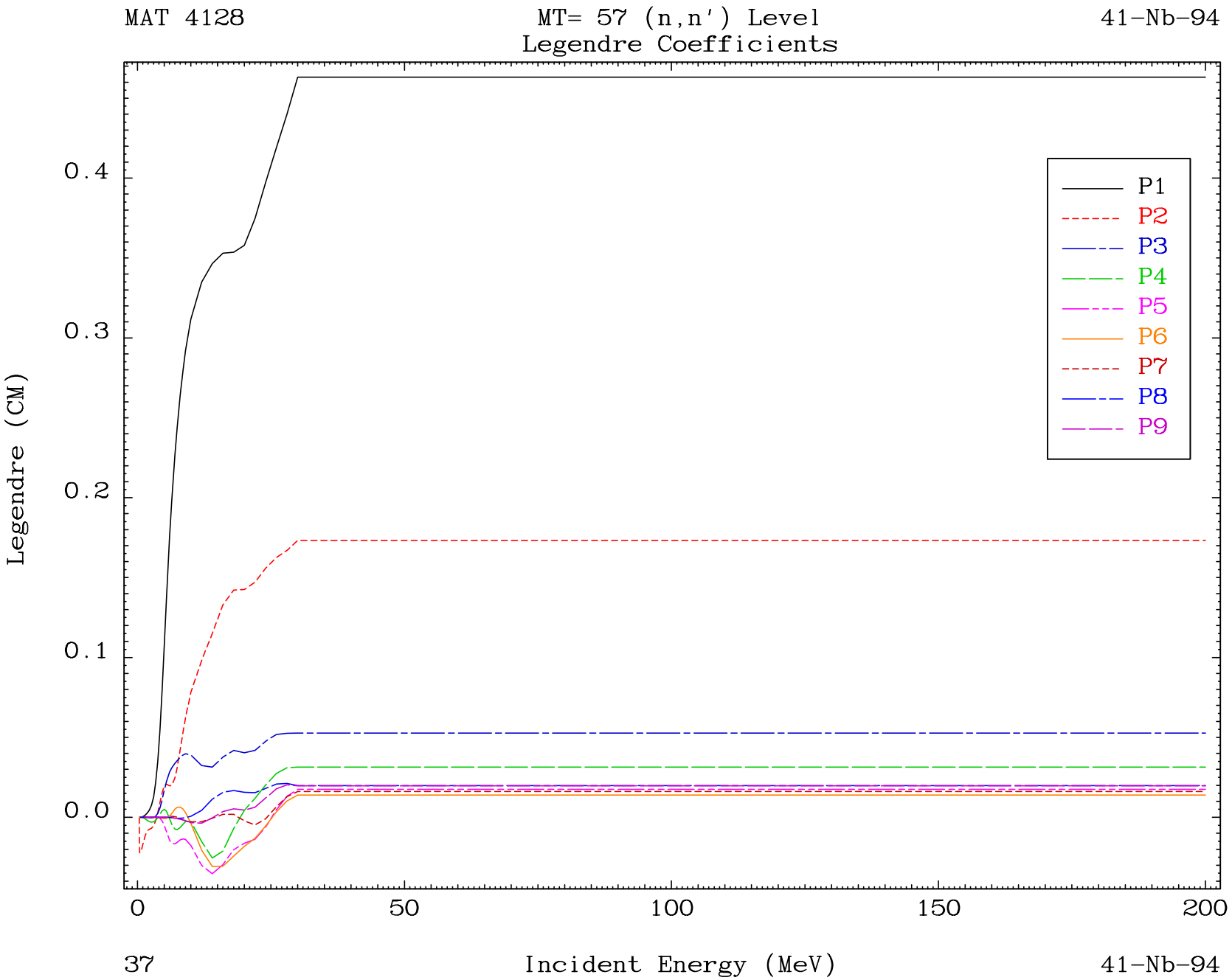

MAT 4128
MT= 55 (n,n') Level
Legendre Coefficients
41-Nb-94
X10^-4
3
2
1
0
Legendre (CM)
P9
P10
P11
P12
P13
P14
P15
P16
0
50
100
150
200
32
Incident Energy (MeV)
41-Nb-94

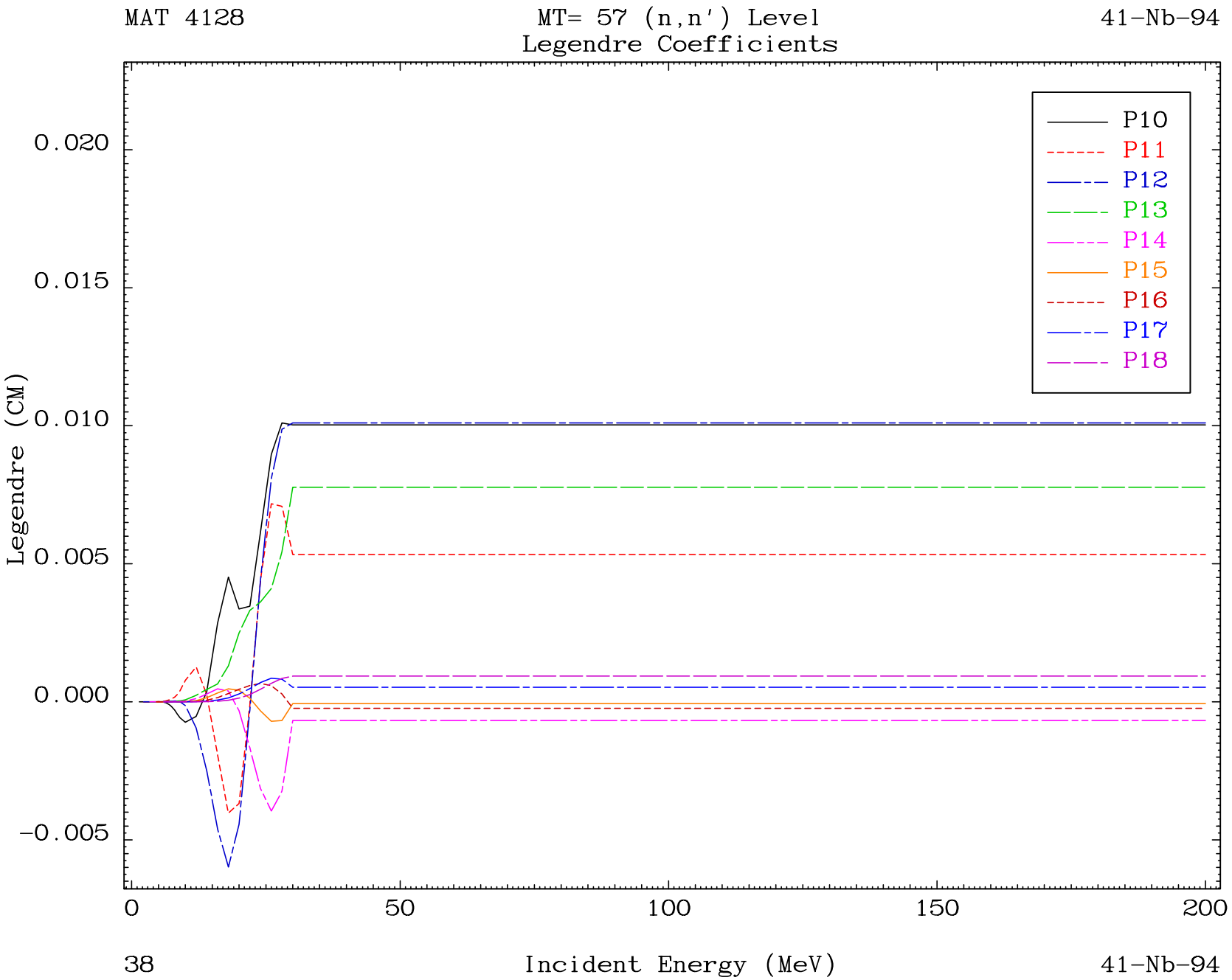

MAT 4128
MT= 55 (n,n') Level
Legendre Coefficients
41-Nb-94
0.0
X10^-6
-0.2
-0.4
-0.6
-0.8
-1.0
-1.2
Legendre (CM)
50
100
150
200
P17
P18
P19
P20
P21
P22
P23
P24
33
Incident Energy (MeV)
41-Nb-94

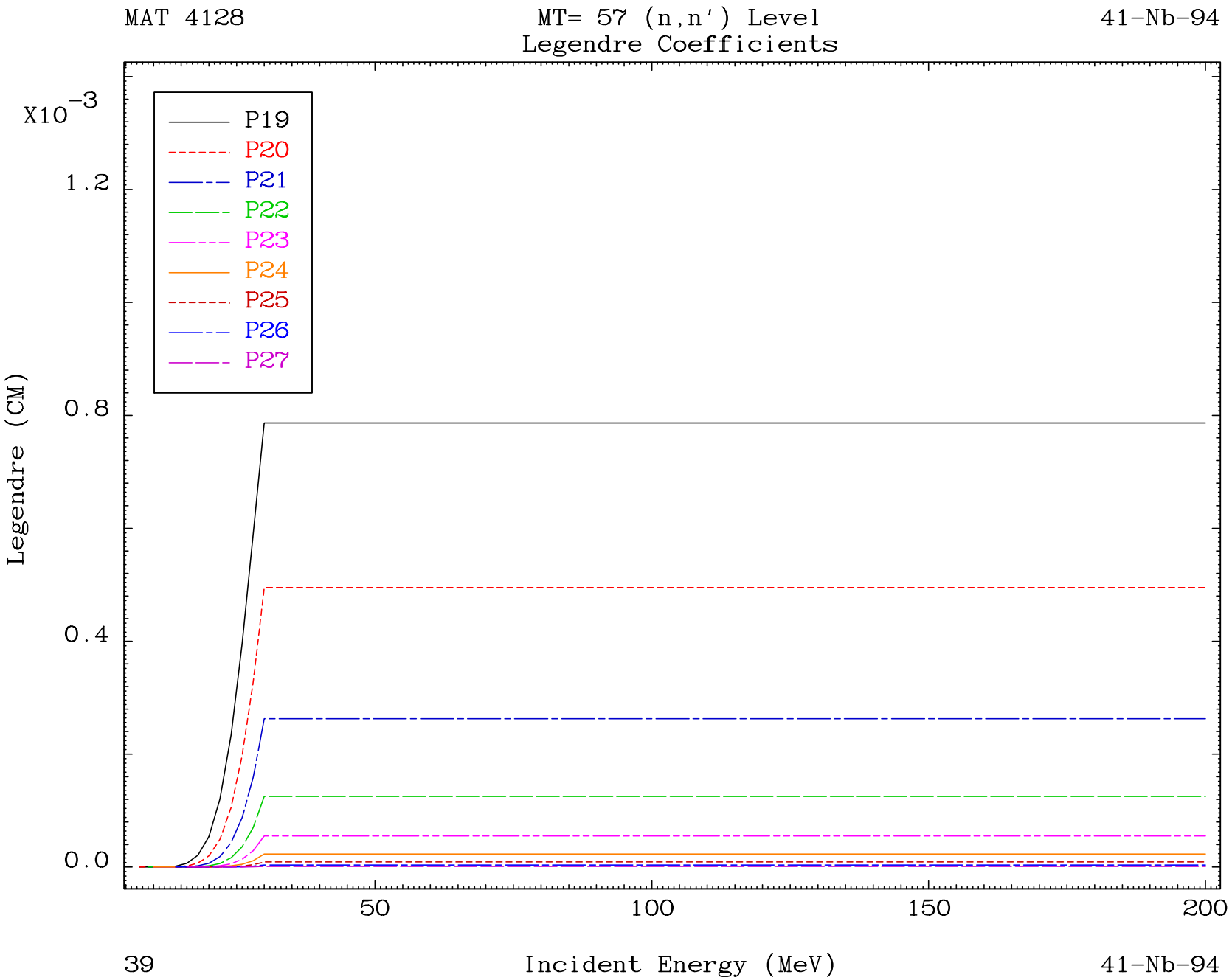

MAT 4128
MT= 56 (n,n') Level
Legendre Coefficients
41-Nb-94
P1
P2
P3
P4
P5
P6
P7
P8
0.04
0.02
0.00
-0.02
Legendre (CM)
0
50
100
150
200
34
Incident Energy (MeV)
41-Nb-94

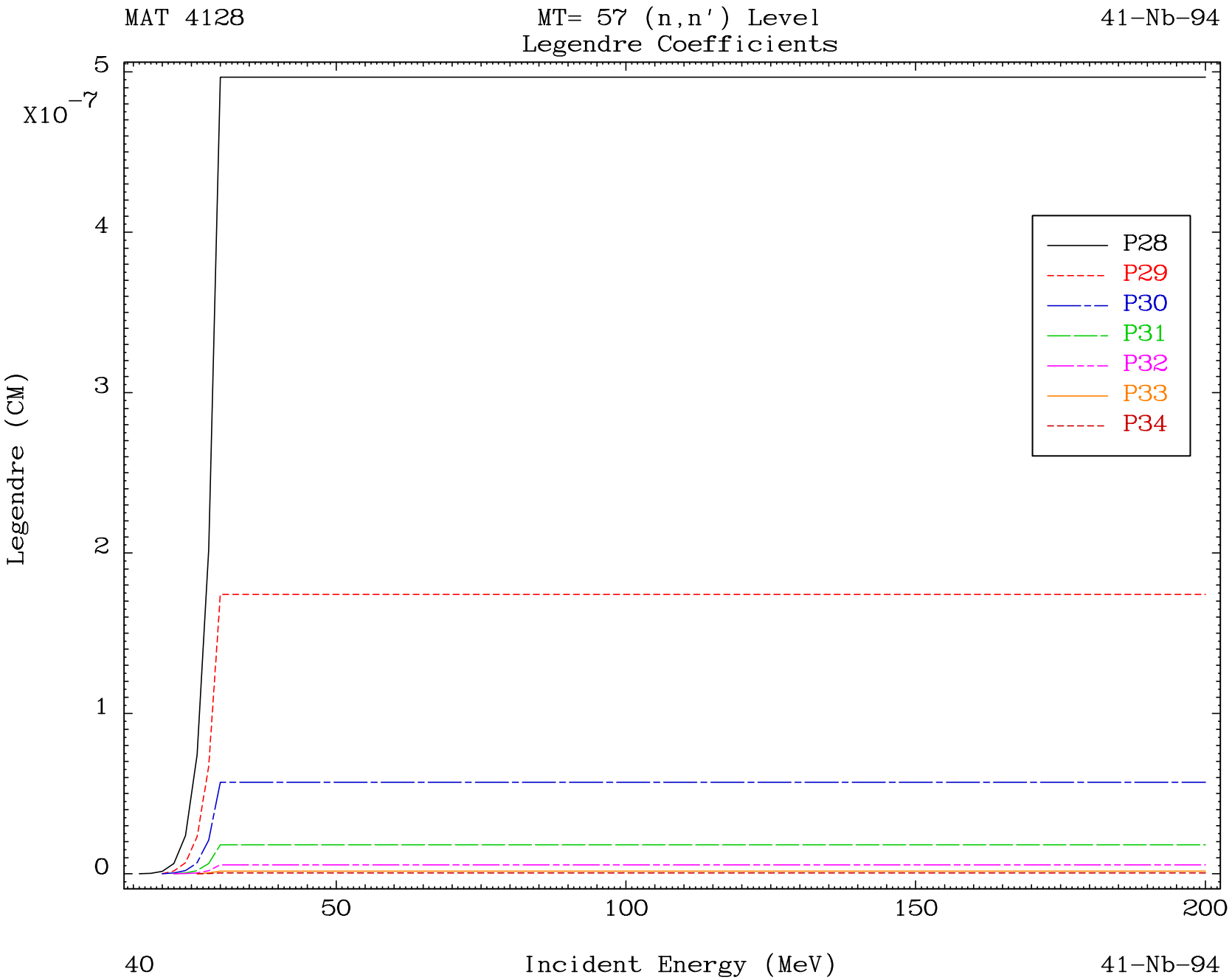

MAT 4128
MT= 56 (n,n') Level
Legendre Coefficients
41-Nb-94
X10^-4
3
2
1
0
Legendre (CM)
P9
P10
P11
P12
P13
P14
P15
P16
0
50
100
150
200
35
Incident Energy (MeV)
41-Nb-94

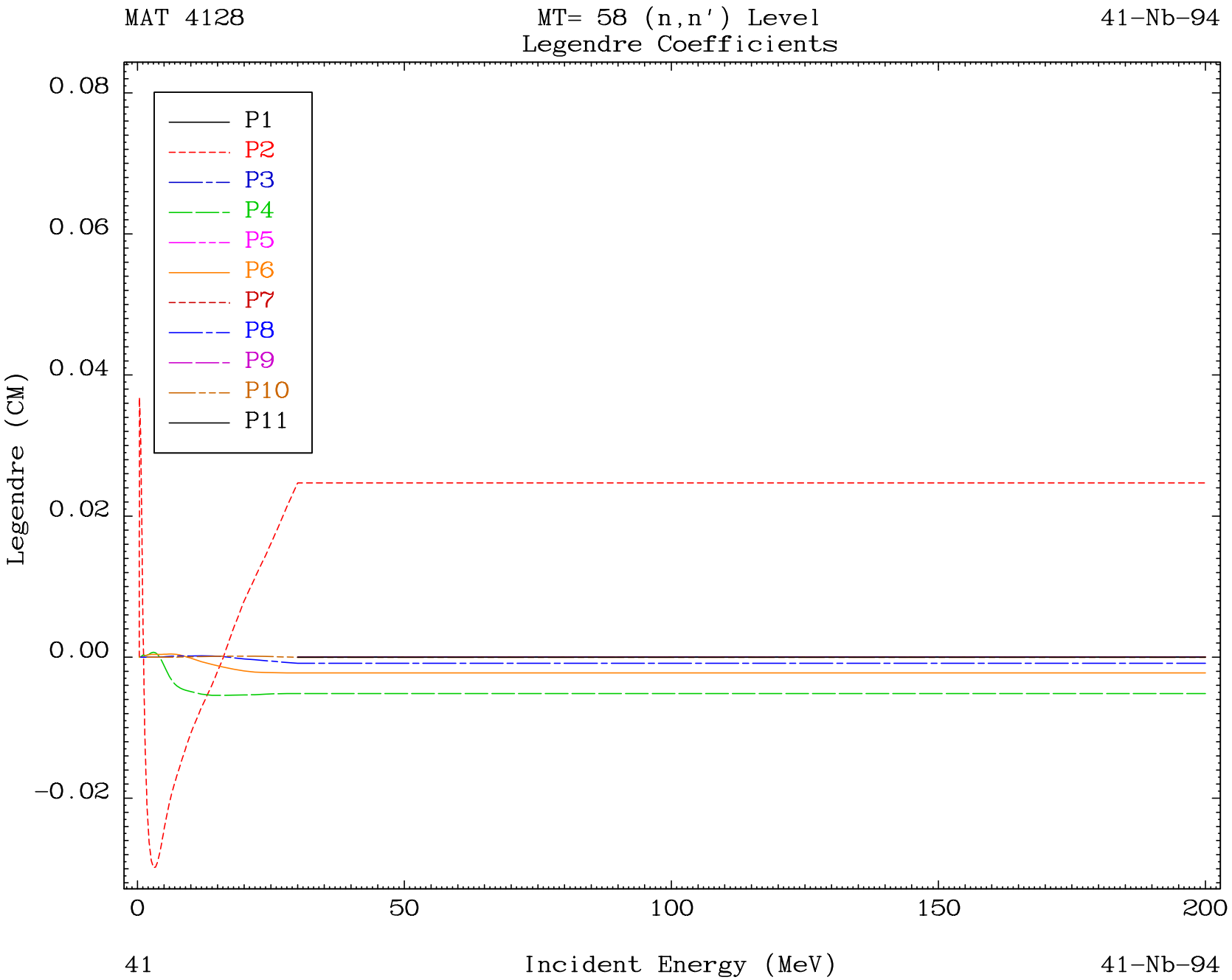

MAT 4128
MT= 56 (n,n') Level
Legendre Coefficients
41-Nb-94
0.0
X10^-6
-0.2
-0.4
-0.6
-0.8
-1.0
-1.2
Legendre (CM)
50
100
150
200
P17
P18
P19
P20
P21
P22
P23
P24
36
Incident Energy (MeV)
41-Nb-94

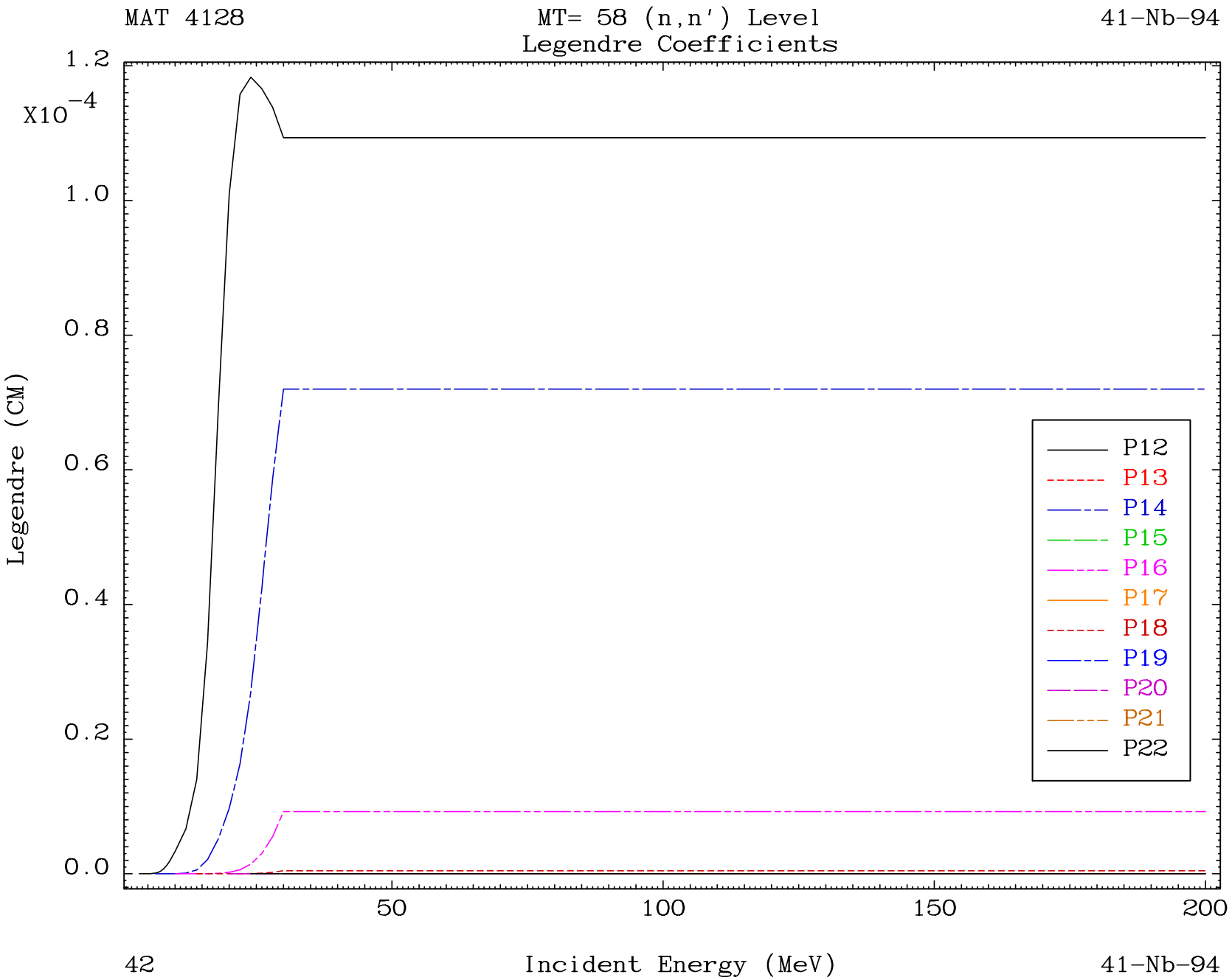

MAT 4128
MT= 57 (n,n') Level
Legendre Coefficients
41-Nb-94
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
37
Incident Energy (MeV)
41-Nb-94

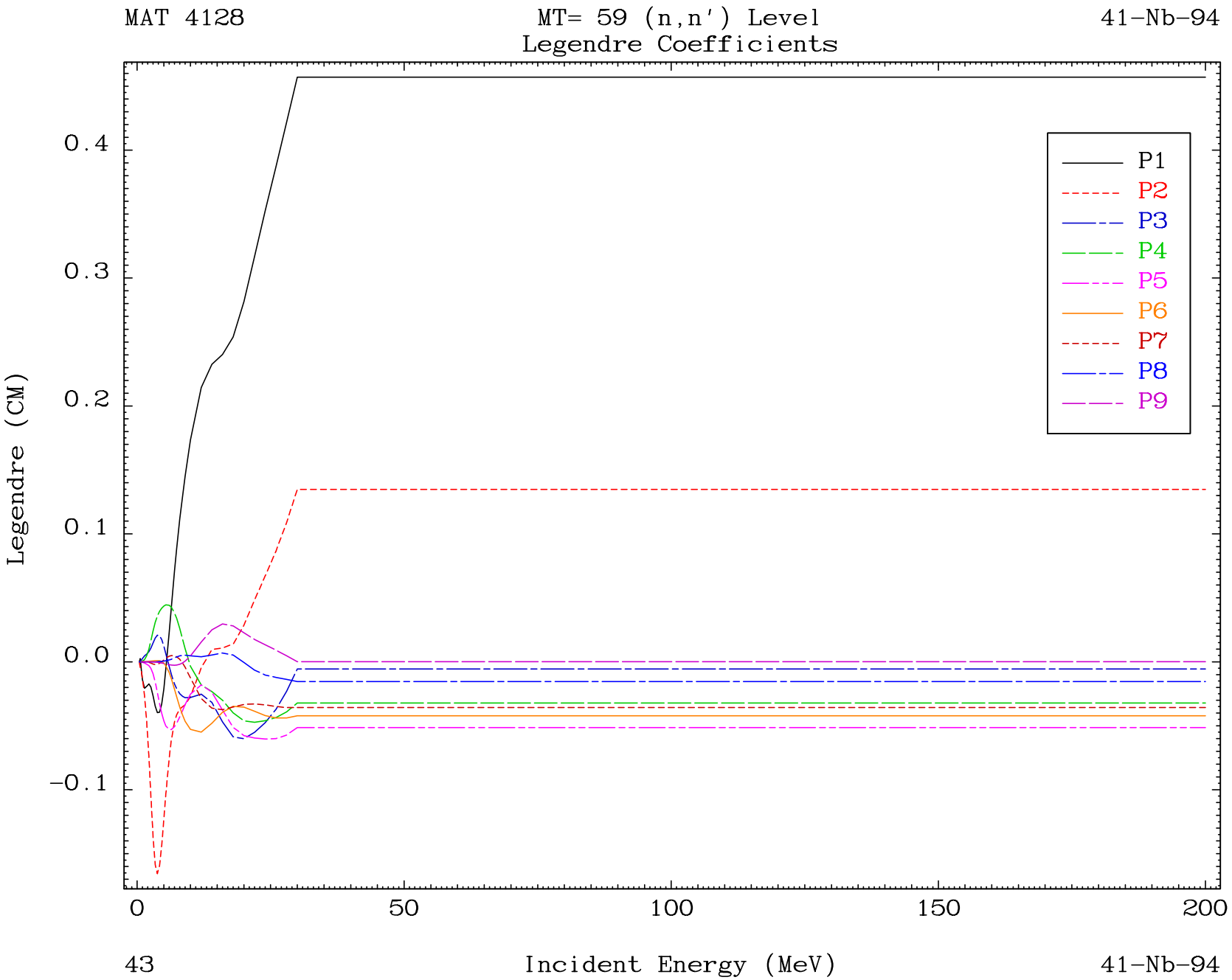

MAT 4128
MT= 57 (n,n') Level
Legendre Coefficients
41-Nb-94
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.020
0.015
0.010
0.005
0.000
-0.005
Legendre (CM)
0
50
100
150
200
38
Incident Energy (MeV)
41-Nb-94

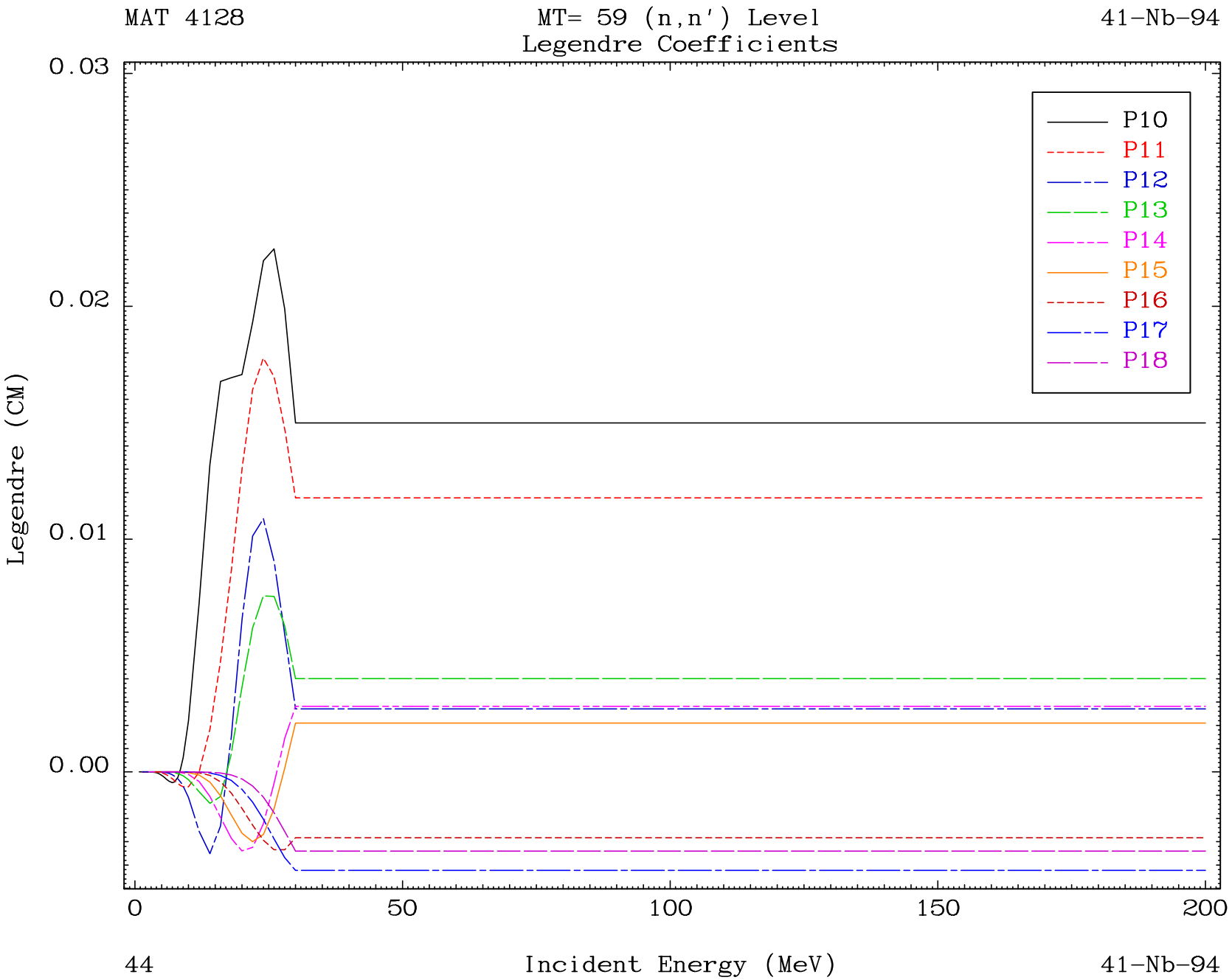

MAT 4128
MT= 57 (n,n') Level
Legendre Coefficients
41-Nb-94
X10-3
1.2
0.8
0.4
0.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
39
Incident Energy (MeV)
41-Nb-94

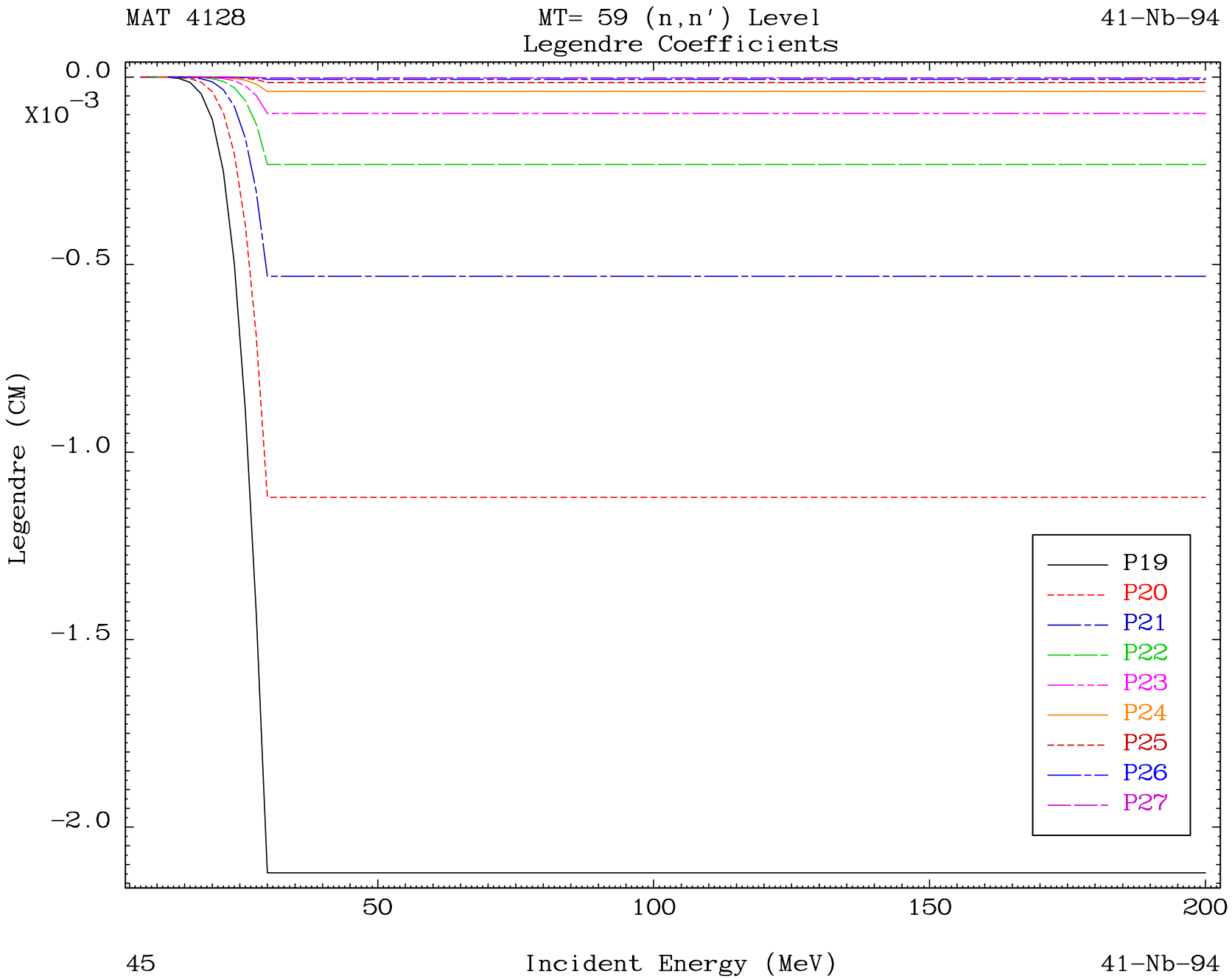

MAT 4128
MT= 57 (n,n') Level
Legendre Coefficients
41-Nb-94
X10^-7
Legendre (CM)
5
4
3
2
1
0
50
100
150
200
40
Incident Energy (MeV)
41-Nb-94
P28
P29
P30
P31
P32
P33
P34

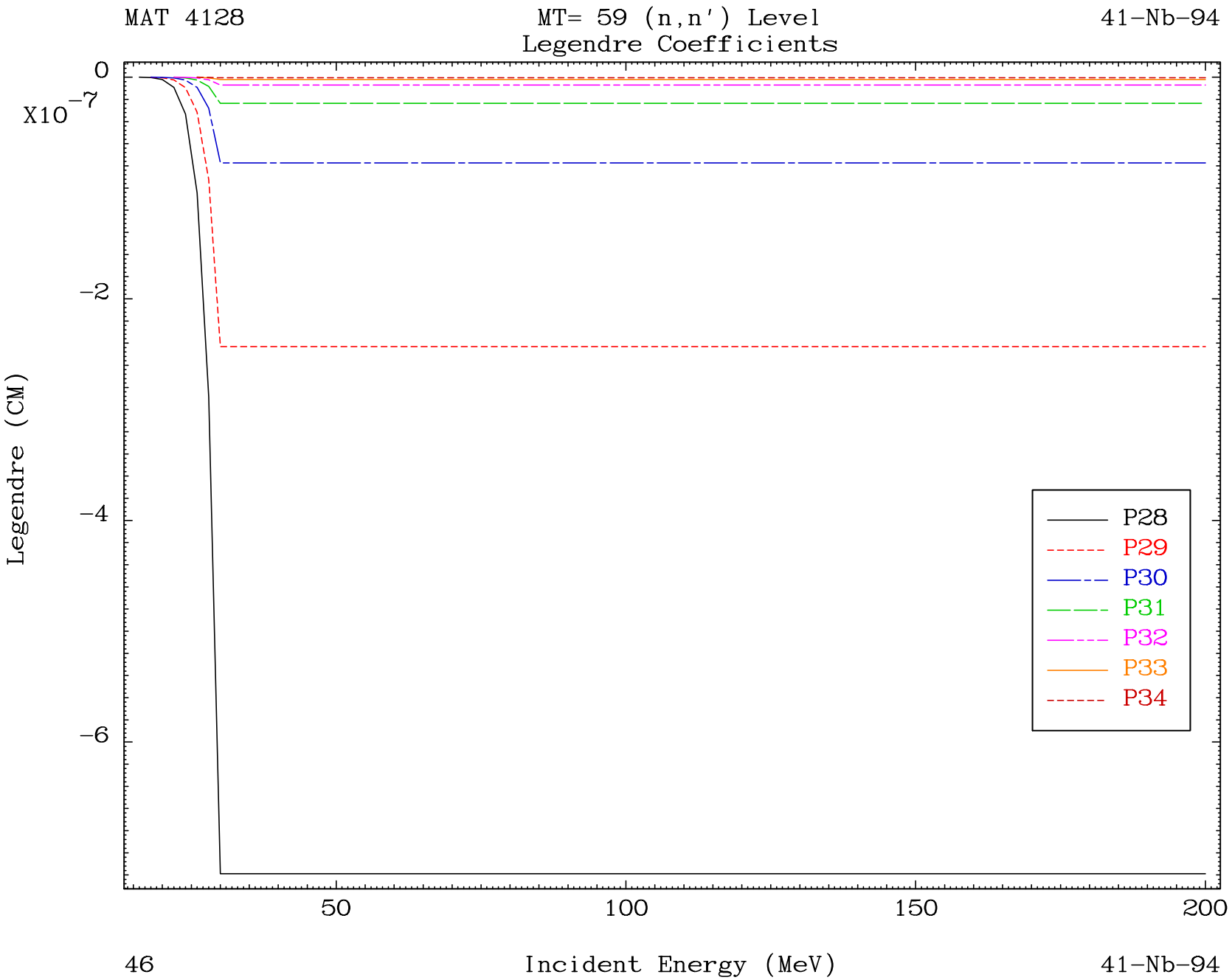

MAT 4128
MT= 58 (n,n') Level
Legendre Coefficients
41-Nb-94
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11
0.08
0.06
0.04
0.02
0.00
-0.02
Legendre (CM)
0
50
100
150
200
41
Incident Energy (MeV)
41-Nb-94

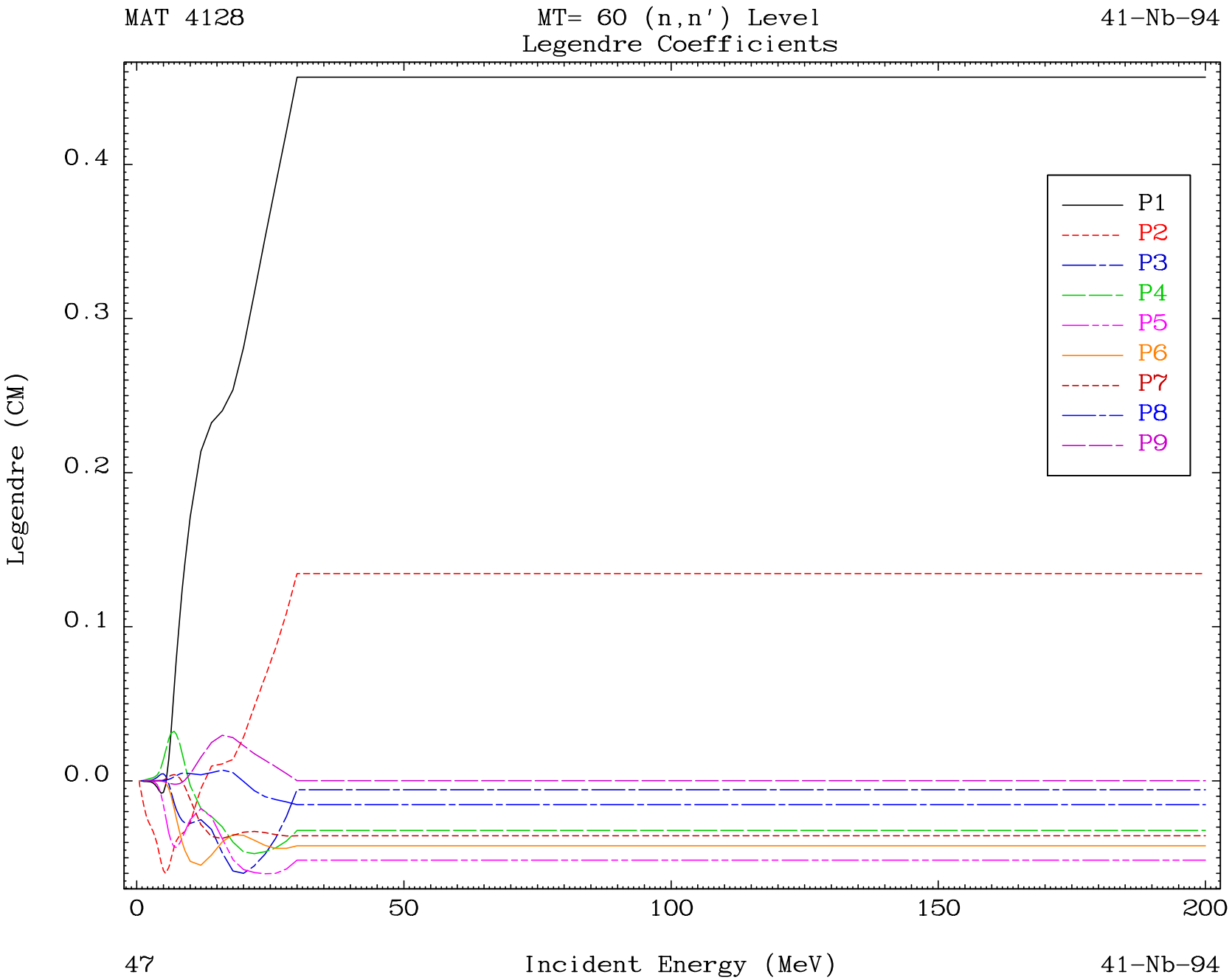

MAT 4128
MT= 58 (n,n') Level
Legendre Coefficients
41-Nb-94
X10^-4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
50
100
150
200
Incident Energy (MeV)
42
41-Nb-94
P12
P13
P14
P15
P16
P17
P18
P19
P20
P21
P22

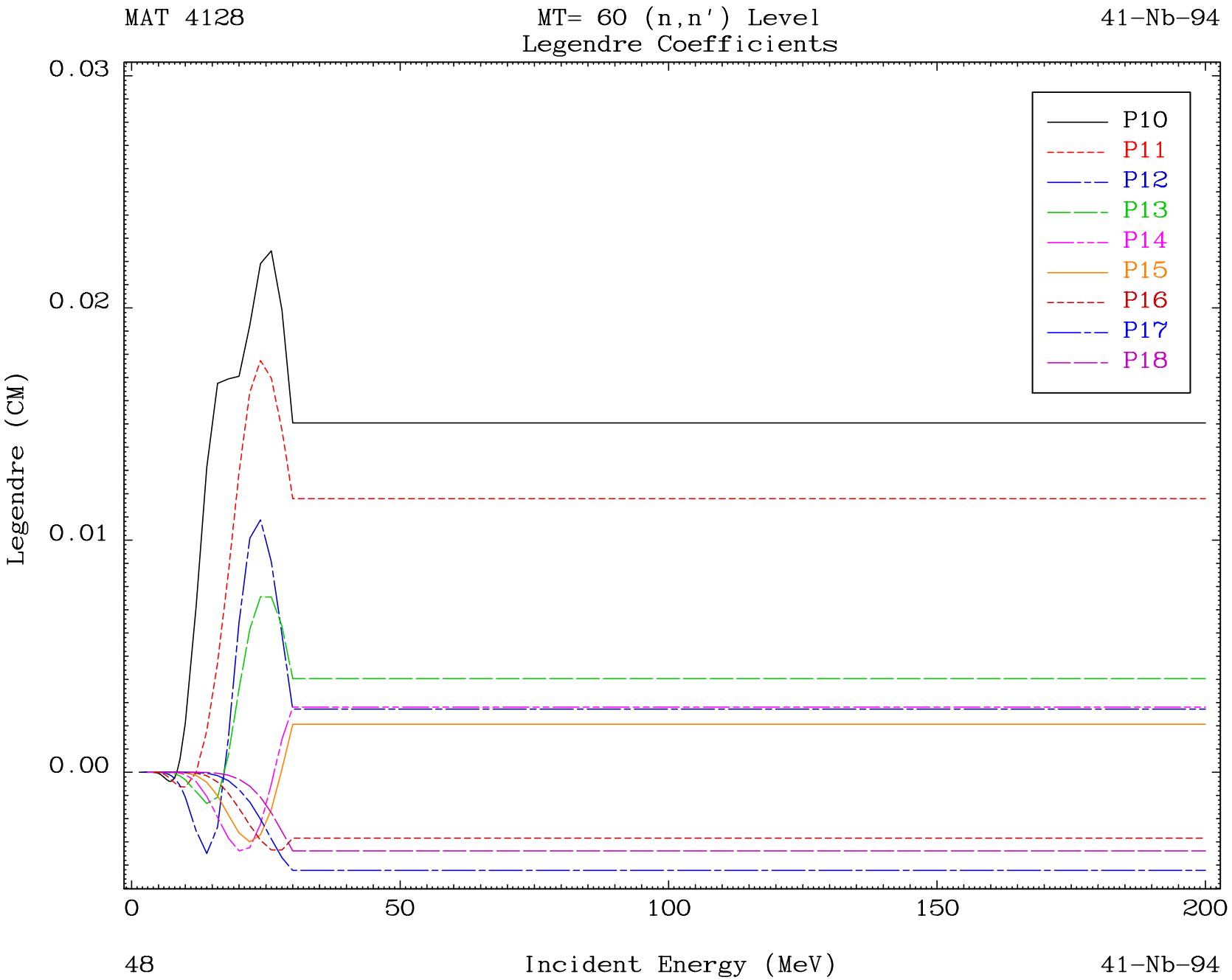

MAT 4128
MT= 59 (n,n') Level
Legendre Coefficients
41-Nb-94
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
-0.1
0
50
100
150
200
Incident Energy (MeV)
43
41-Nb-94
P1
P2
P3
P4
P5
P6
P7
P8
P9

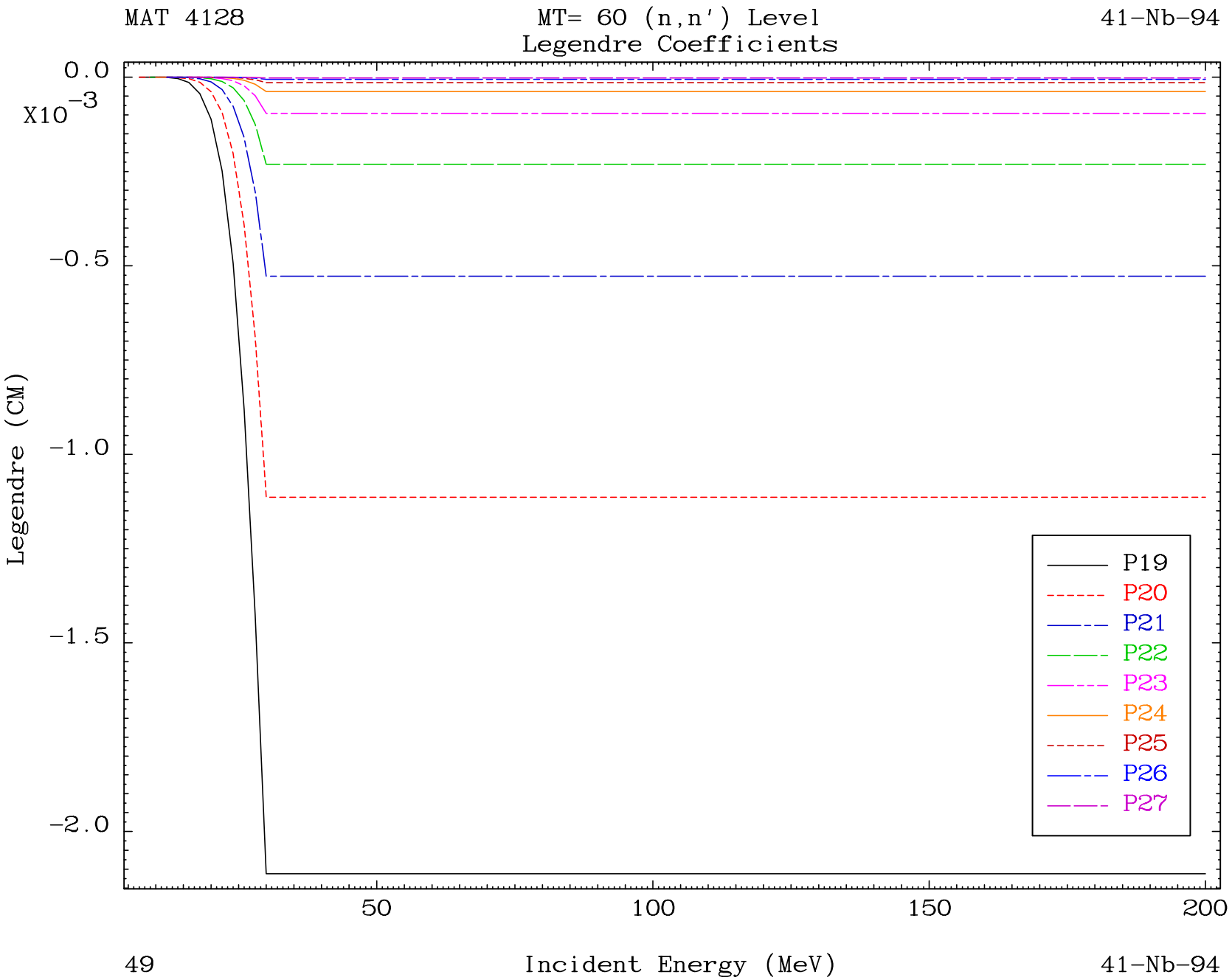

MAT 4128
MT= 59 (n,n') Level
Legendre Coefficients
41-Nb-94
0.03
0.02
0.01
0.00
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
44
Incident Energy (MeV)
41-Nb-94

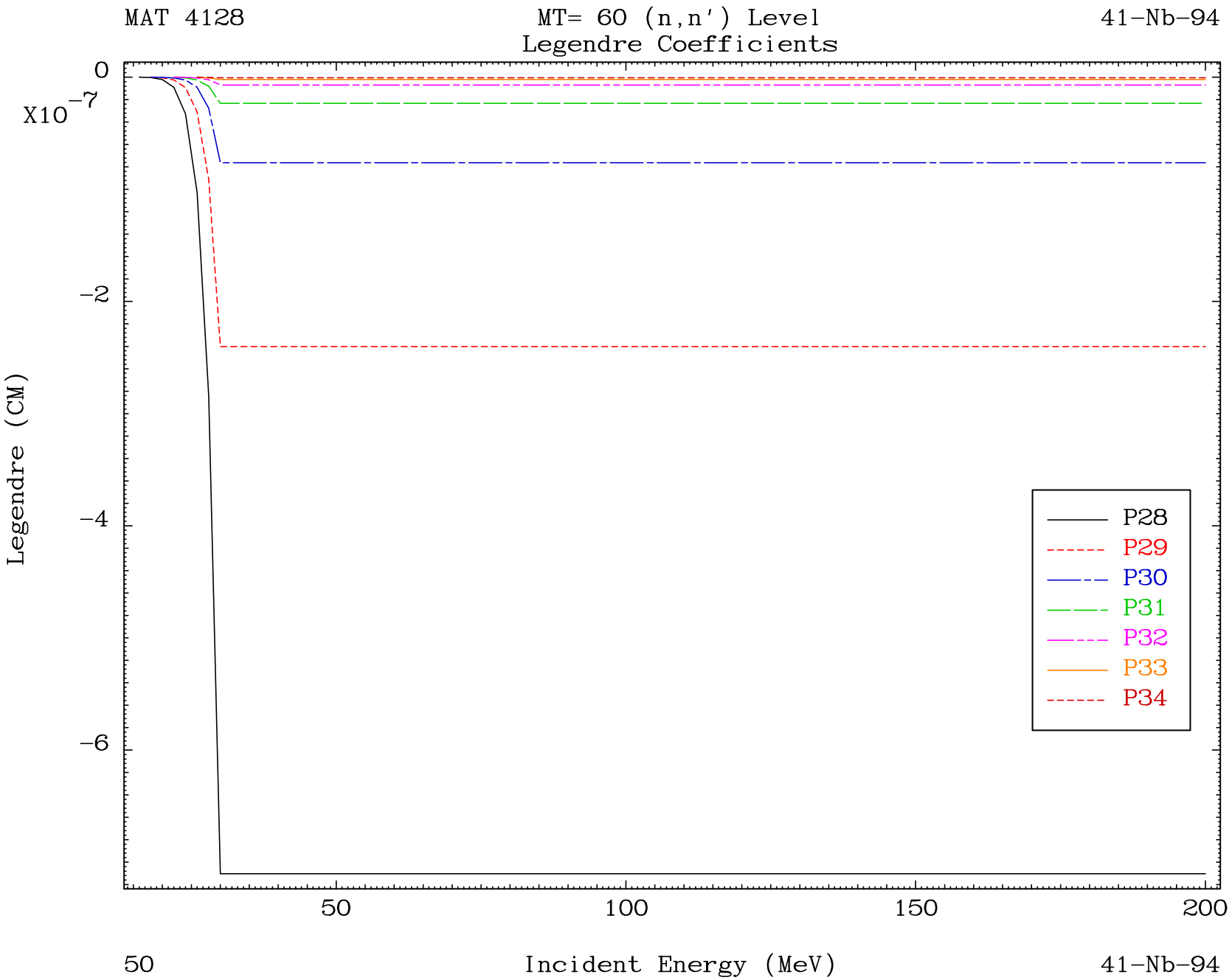

MAT 4128
MT= 59 (n,n') Level
Legendre Coefficients
41-Nb-94
0.0
X10^-3
-0.5
-1.0
-1.5
-2.0
Legendre (CM)
50
100
150
200
45
Incident Energy (MeV)
41-Nb-94
P19
P20
P21
P22
P23
P24
P25
P26
P27

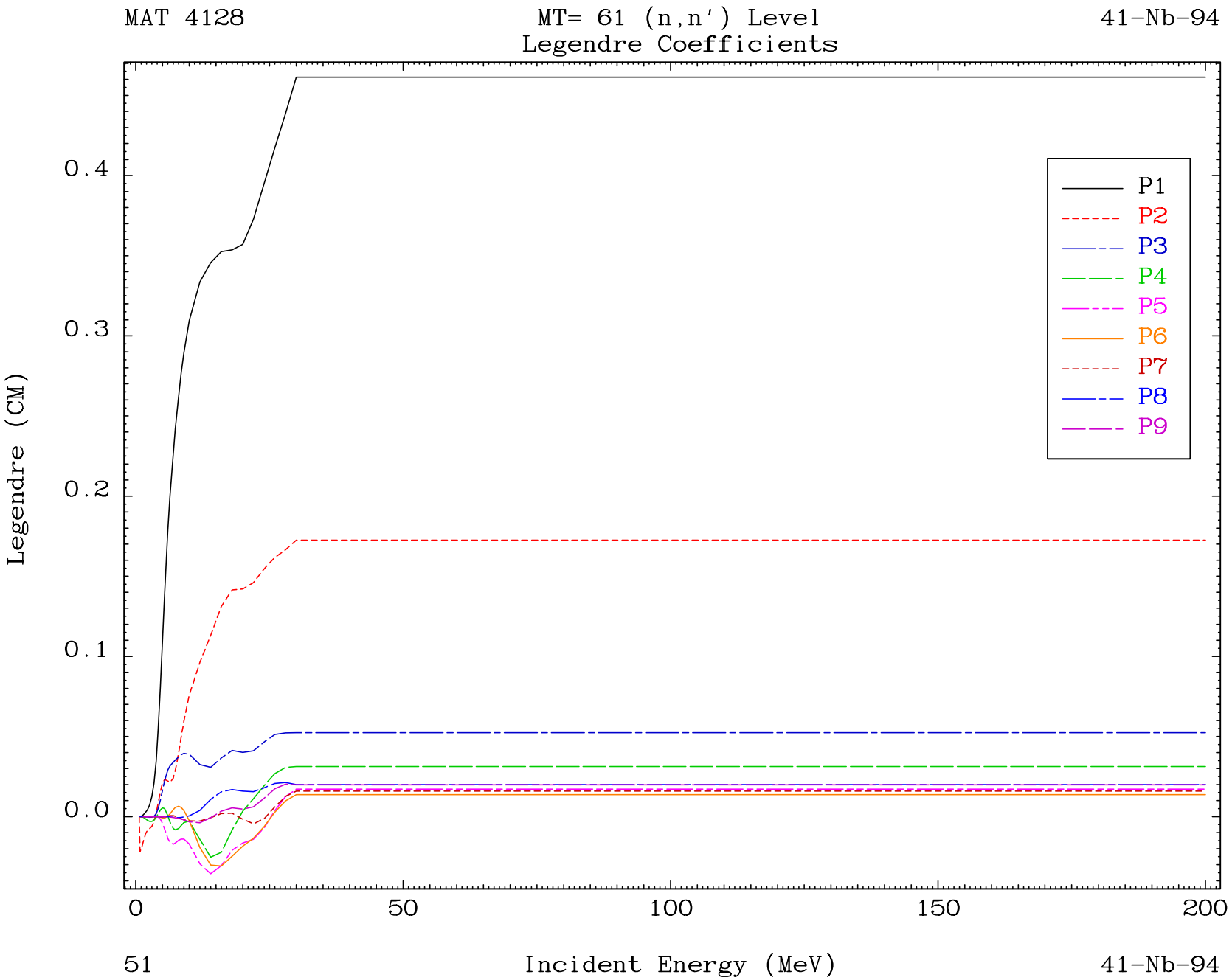

MAT 4128
MT= 59 (n,n') Level
Legendre Coefficients
41-Nb-94
0
X10-7
-2
-4
-6
Legendre (CM)
50
100
150
200
P28
P29
P30
P31
P32
P33
P34
46
Incident Energy (MeV)
41-Nb-94

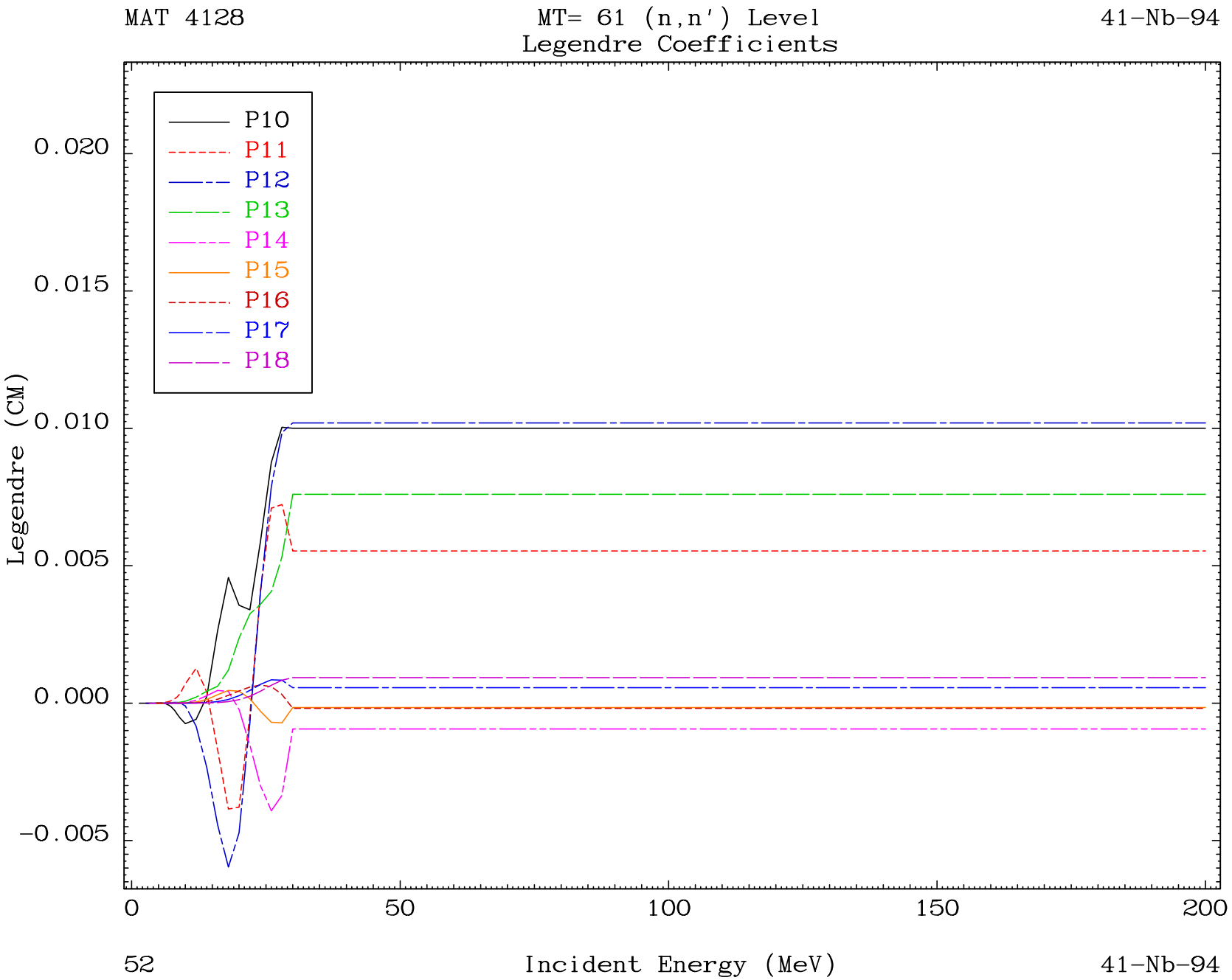

MAT 4128
MT= 60 (n,n') Level
Legendre Coefficients
41-Nb-94
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
47
Incident Energy (MeV)
41-Nb-94

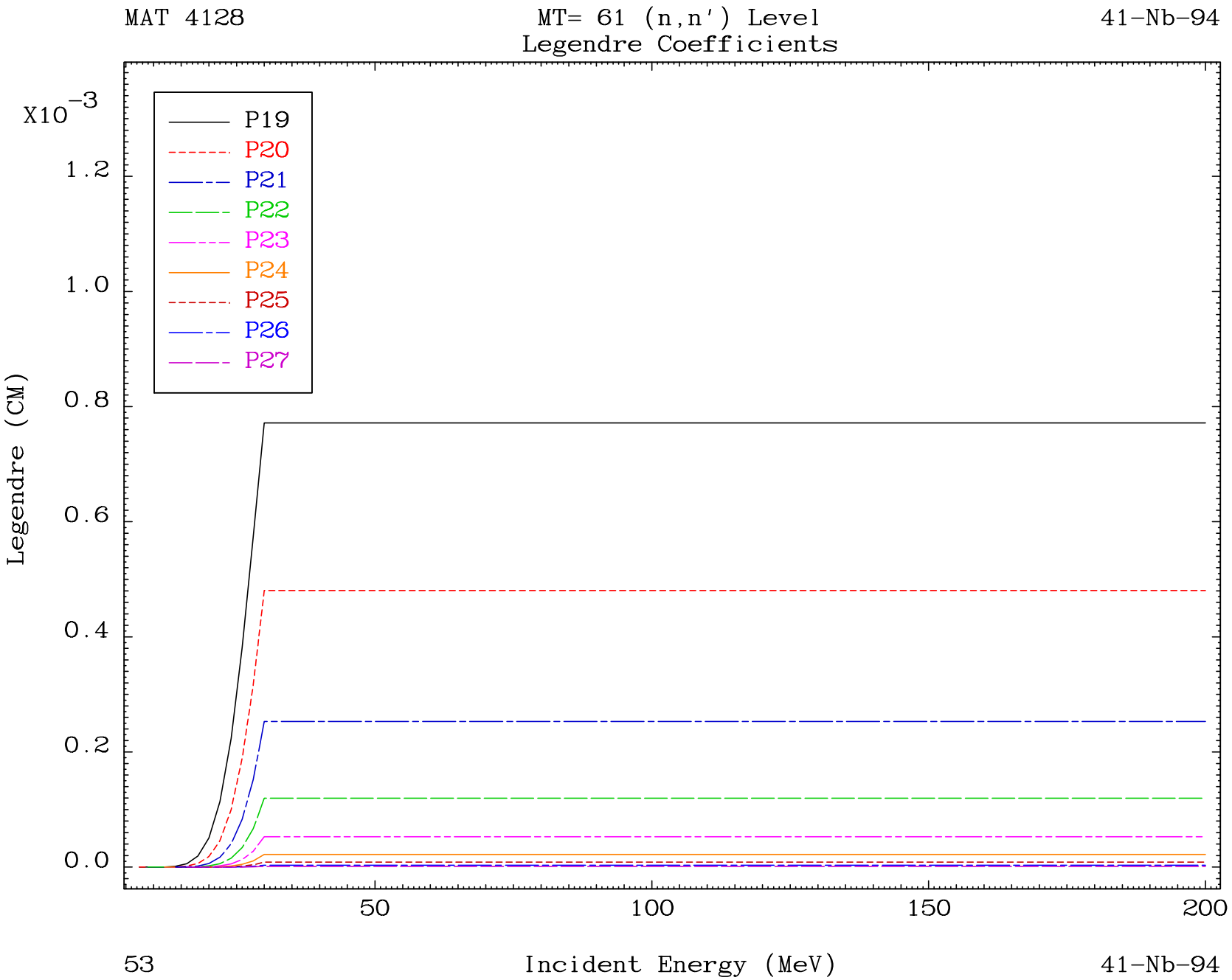

MAT 4128
MT= 60 (n,n') Level
Legendre Coefficients
41-Nb-94
0.03
0.02
0.01
0.00
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
48
Incident Energy (MeV)
41-Nb-94

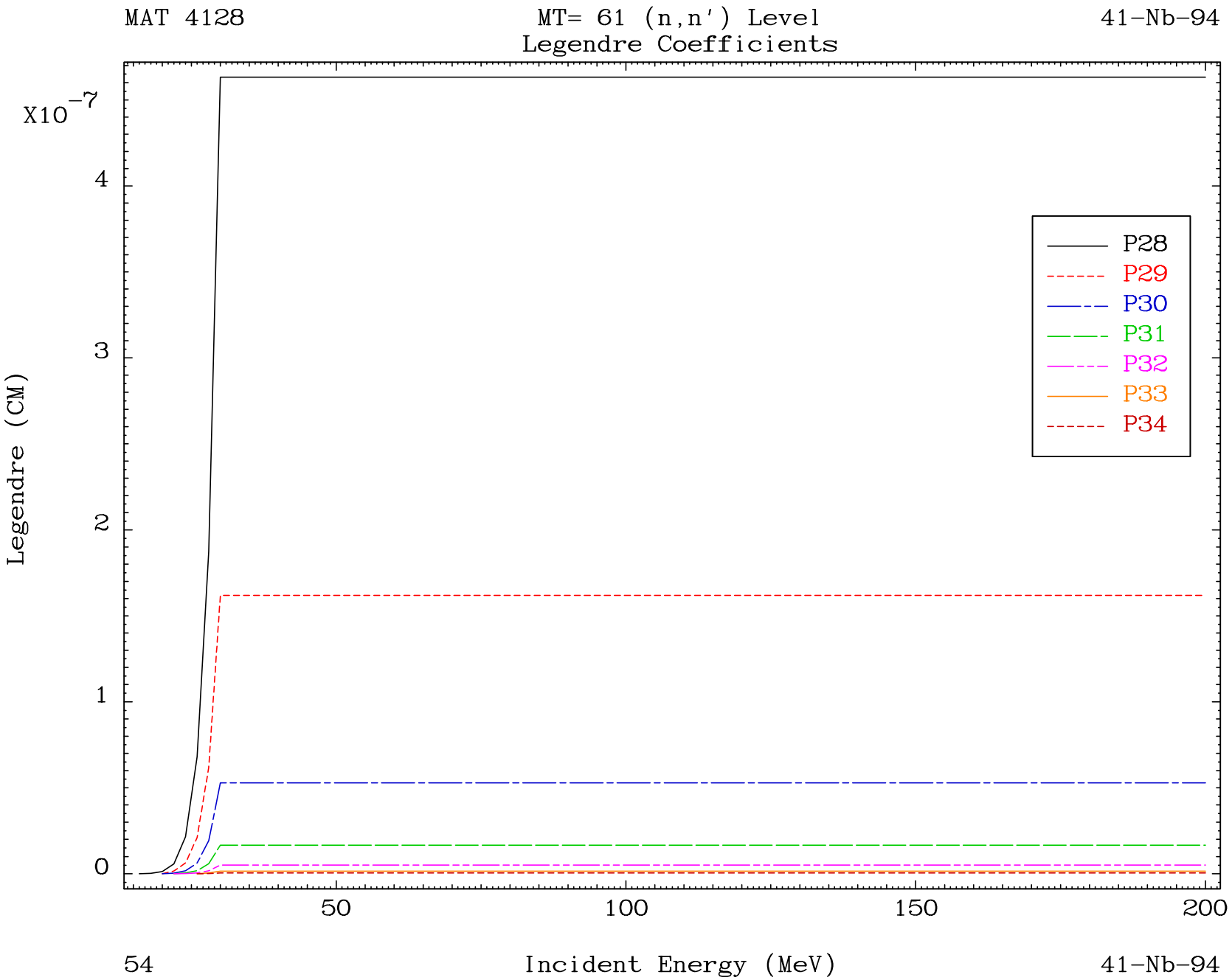

MAT 4128
MT= 60 (n,n') Level
Legendre Coefficients
41-Nb-94
0.0
X10^-3
-0.5
-1.0
-1.5
-2.0
Legendre (CM)
50
100
150
200
49
Incident Energy (MeV)
41-Nb-94
P19
P20
P21
P22
P23
P24
P25
P26
P27

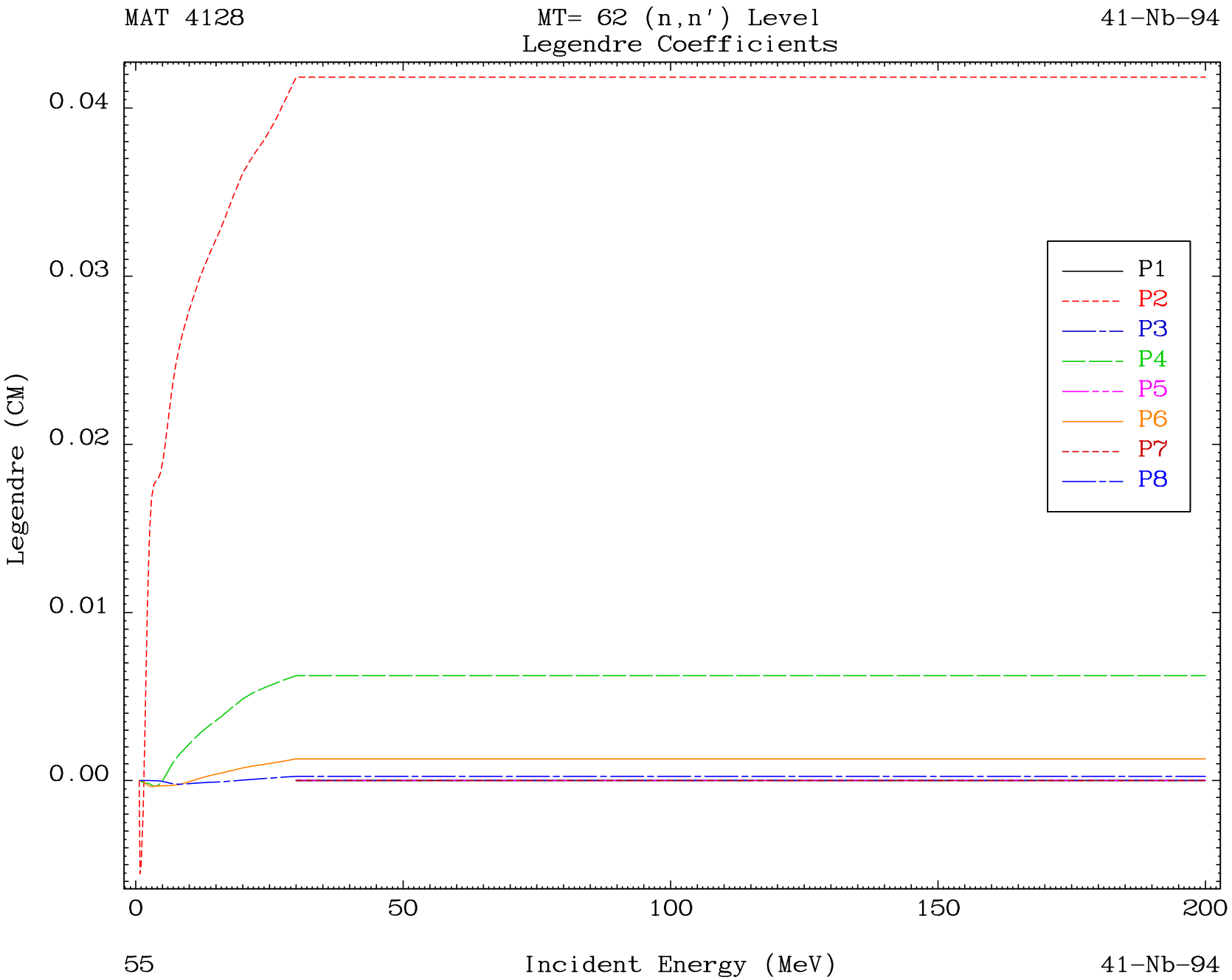

MAT 4128
MT= 60 (n,n') Level
Legendre Coefficients
41-Nb-94
0
X10-7
-2
-4
-6
Legendre (CM)
50
100
150
200
50
Incident Energy (MeV)
41-Nb-94
P28
P29
P30
P31
P32
P33
P34

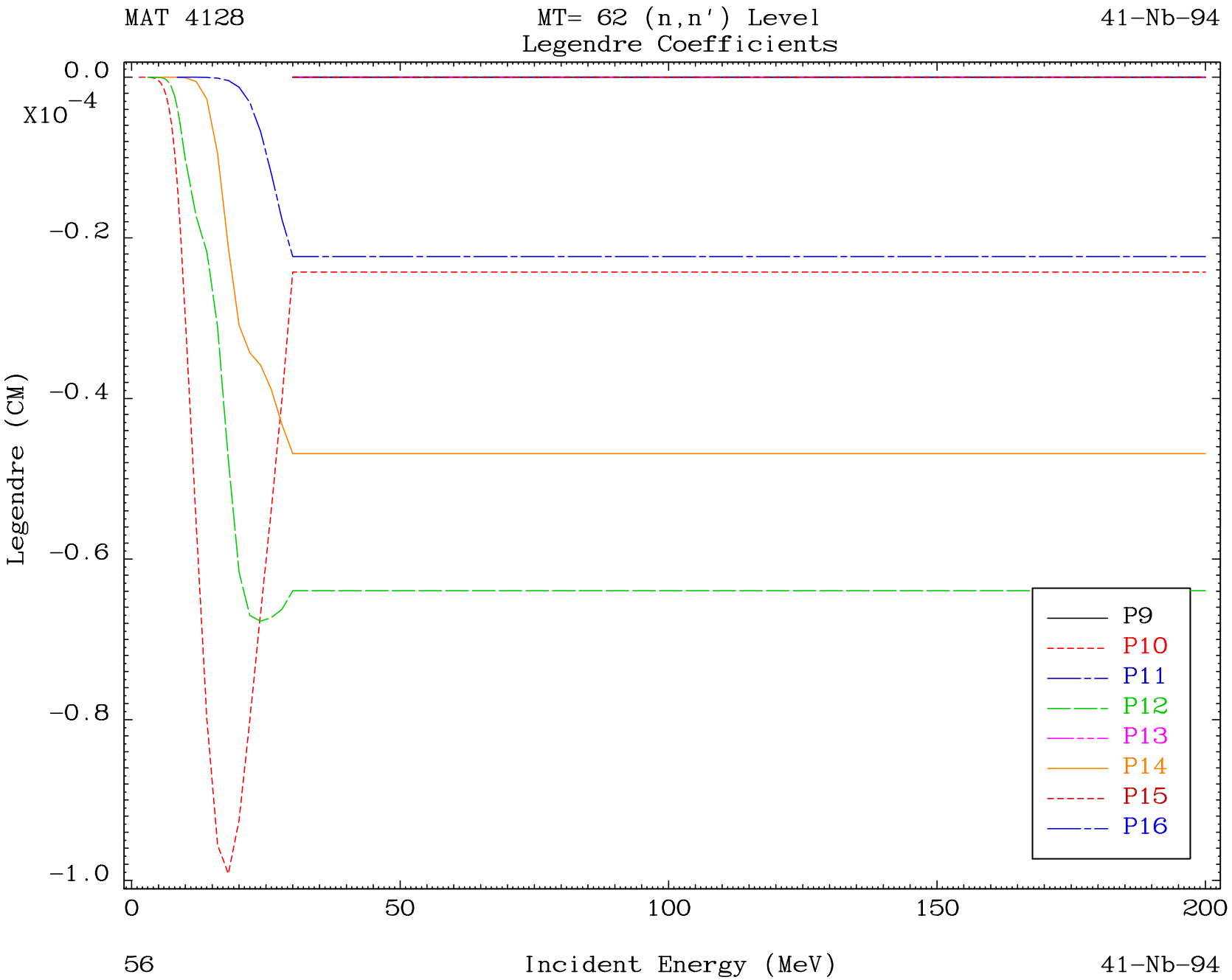

MAT 4128
MT= 61 (n,n') Level
Legendre Coefficients
41-Nb-94
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
51
Incident Energy (MeV)
41-Nb-94

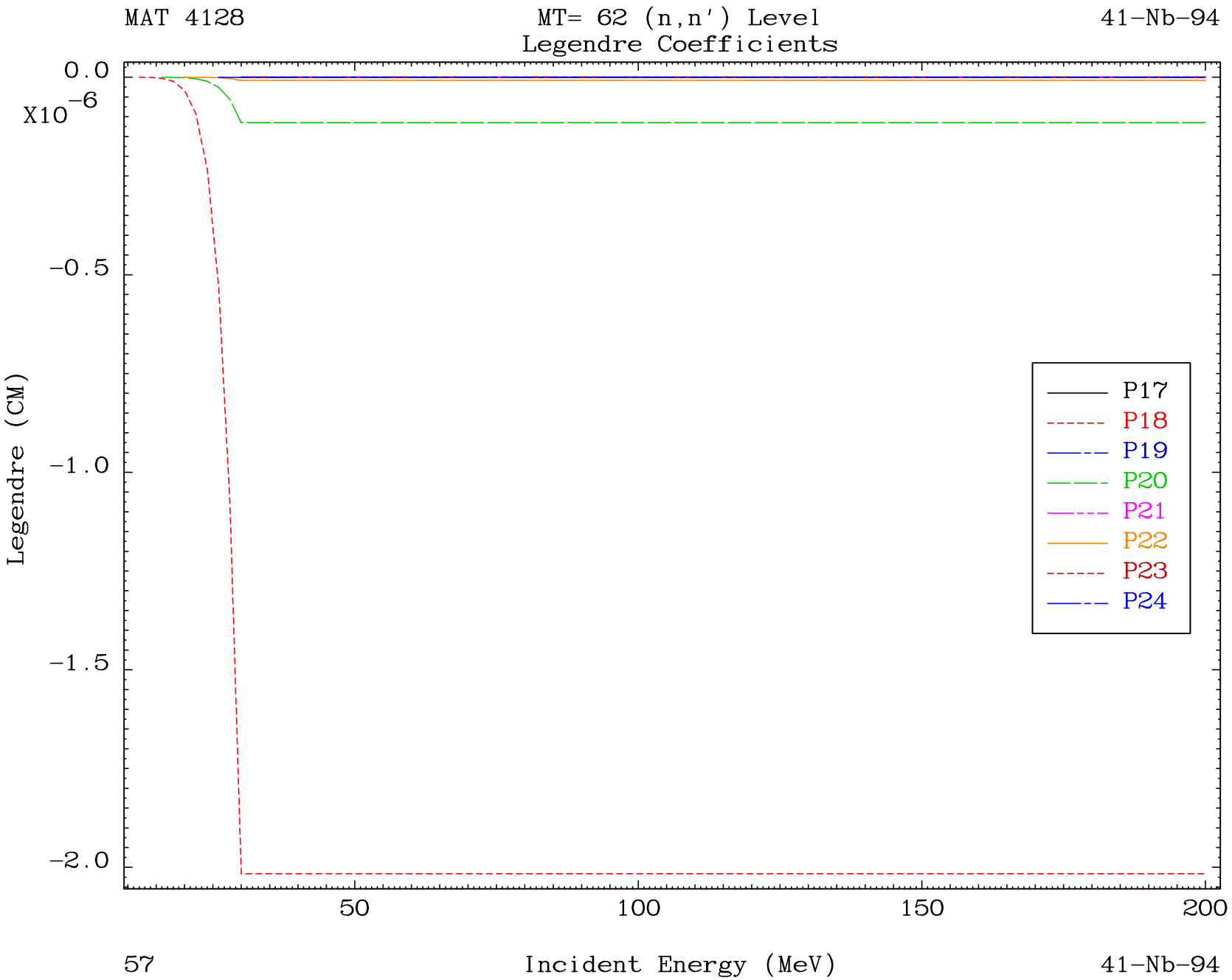

MAT 4128
MT= 61 (n,n') Level
Legendre Coefficients
41-Nb-94
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.020
0.015
0.010
0.005
0.000
-0.005
Legendre (CM)
0
50
100
150
200
52
Incident Energy (MeV)
41-Nb-94

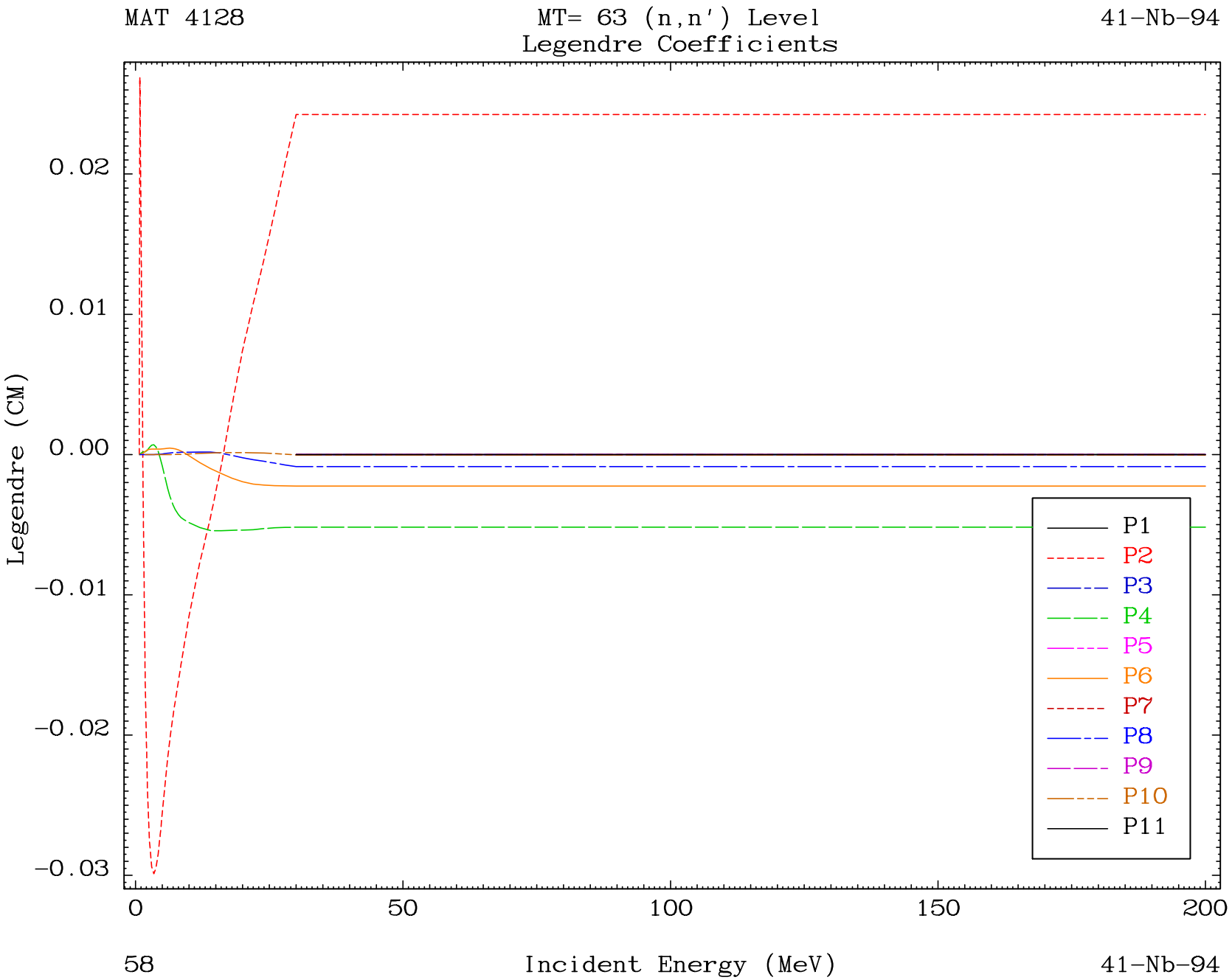

MAT 4128
MT= 61 (n,n') Level
Legendre Coefficients
41-Nb-94
X10^-3
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
53
Incident Energy (MeV)
41-Nb-94

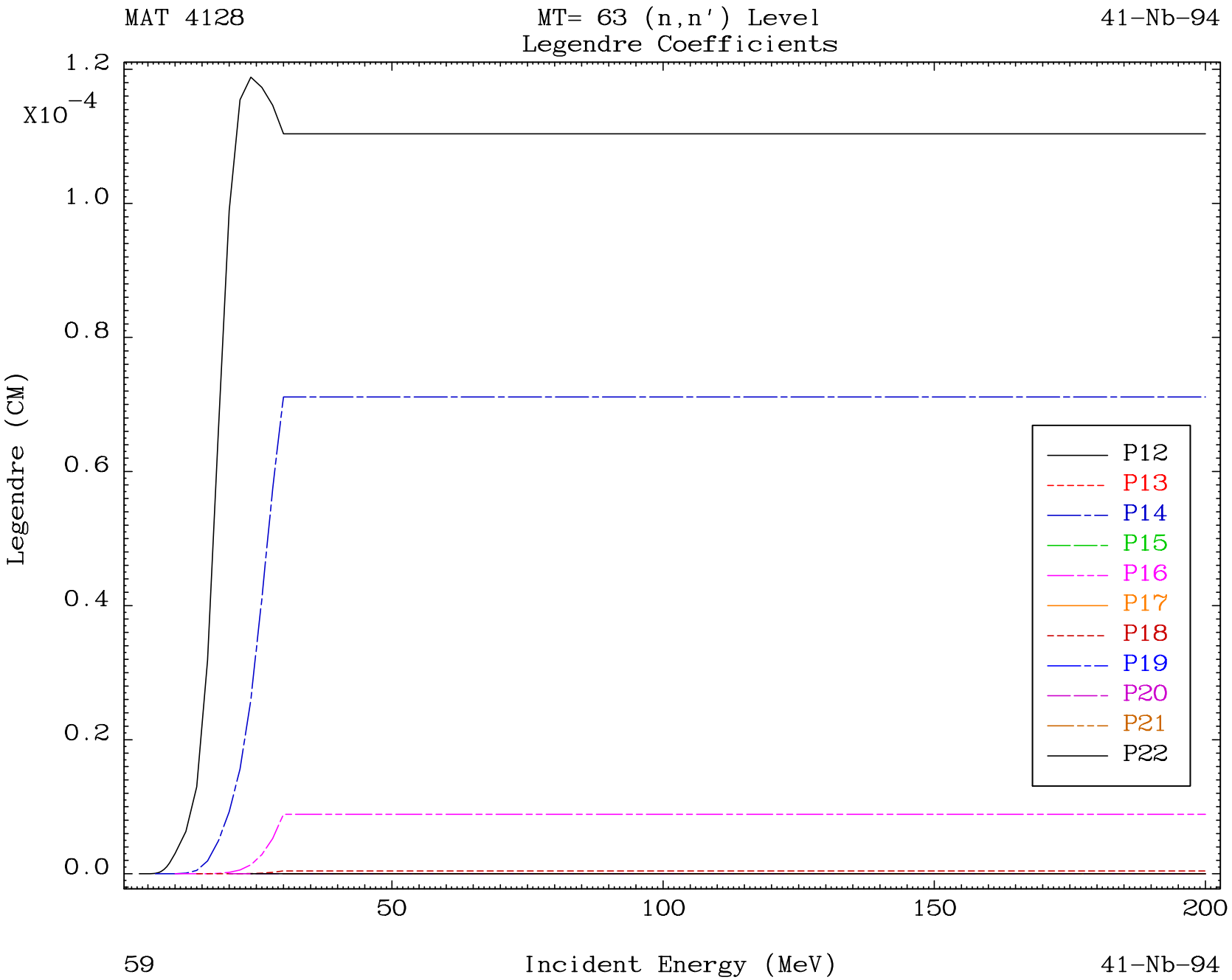

MAT 4128
MT= 61 (n,n') Level
Legendre Coefficients
41-Nb-94
X10-7
4
3
2
1
0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
54
Incident Energy (MeV)
41-Nb-94

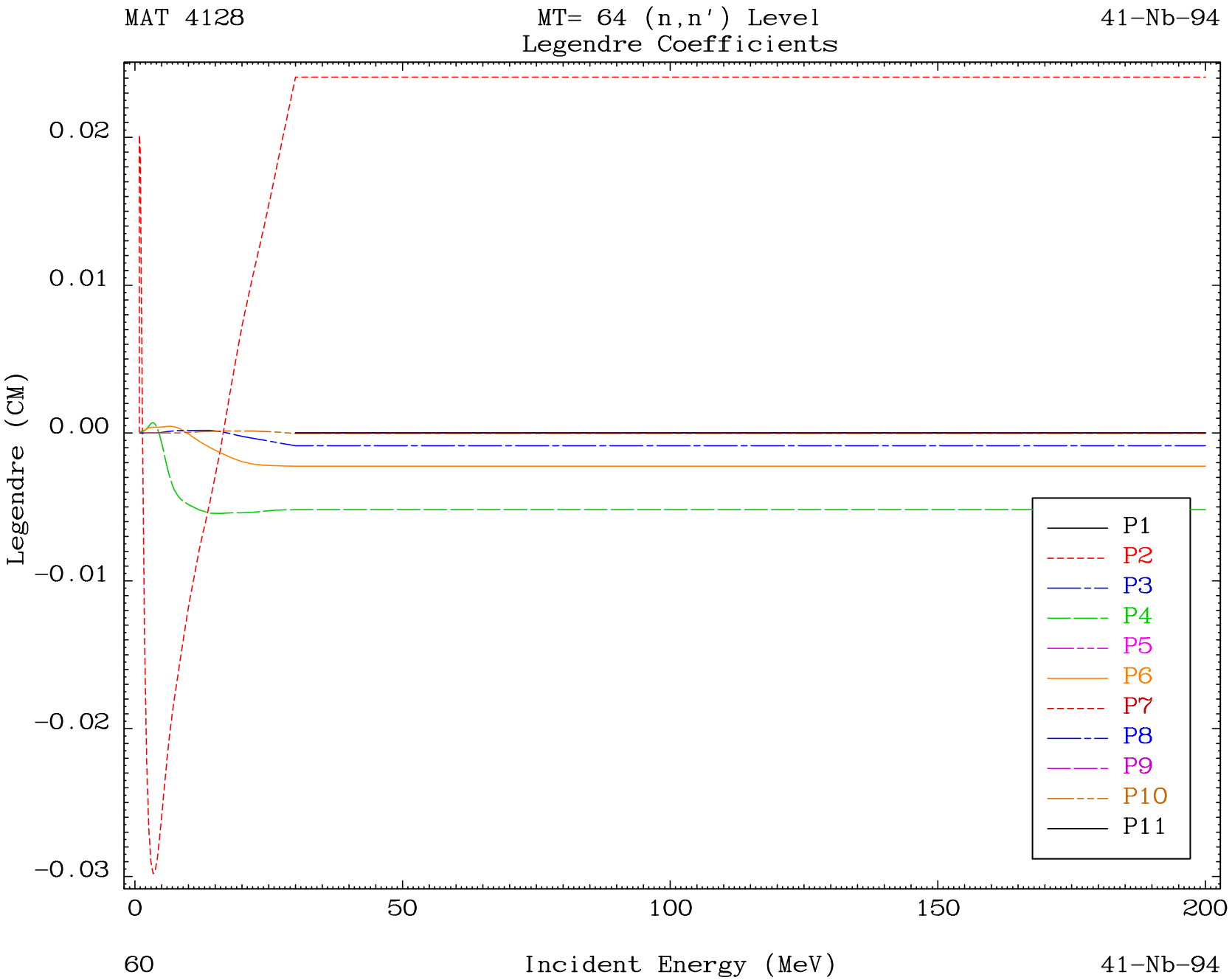

MAT 4128
MT= 62 (n,n') Level
Legendre Coefficients
41-Nb-94
0.04
0.03
0.02
0.01
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
0
50
100
150
200
55
Incident Energy (MeV)
41-Nb-94

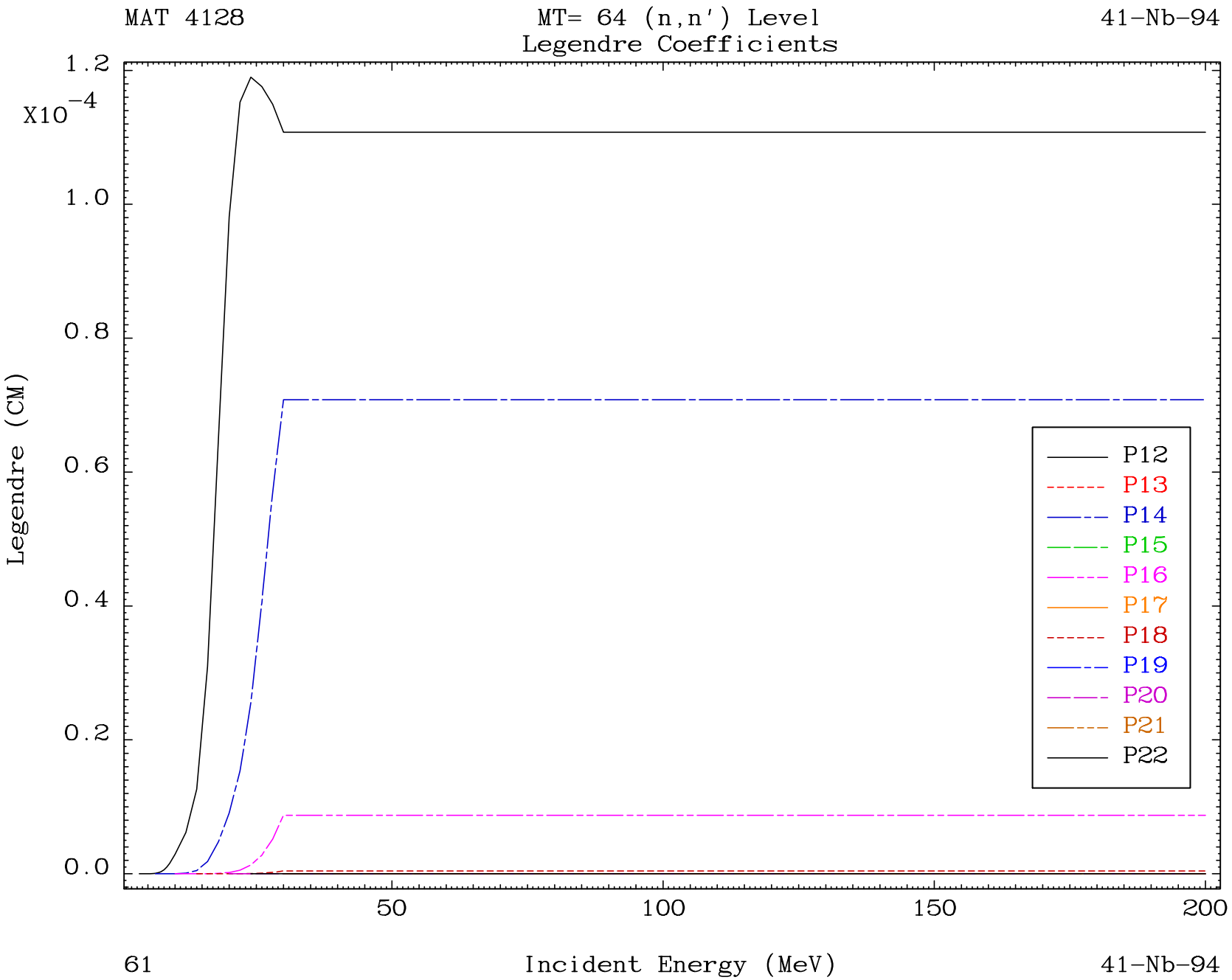

MAT 4128
MT= 62 (n,n') Level
Legendre Coefficients
41-Nb-94
0.0
X10^-4
-0.2
-0.4
-0.6
-0.8
-1.0
Legendre (CM)
0
50
100
150
200
56
Incident Energy (MeV)
41-Nb-94
P9
P10
P11
P12
P13
P14
P15
P16

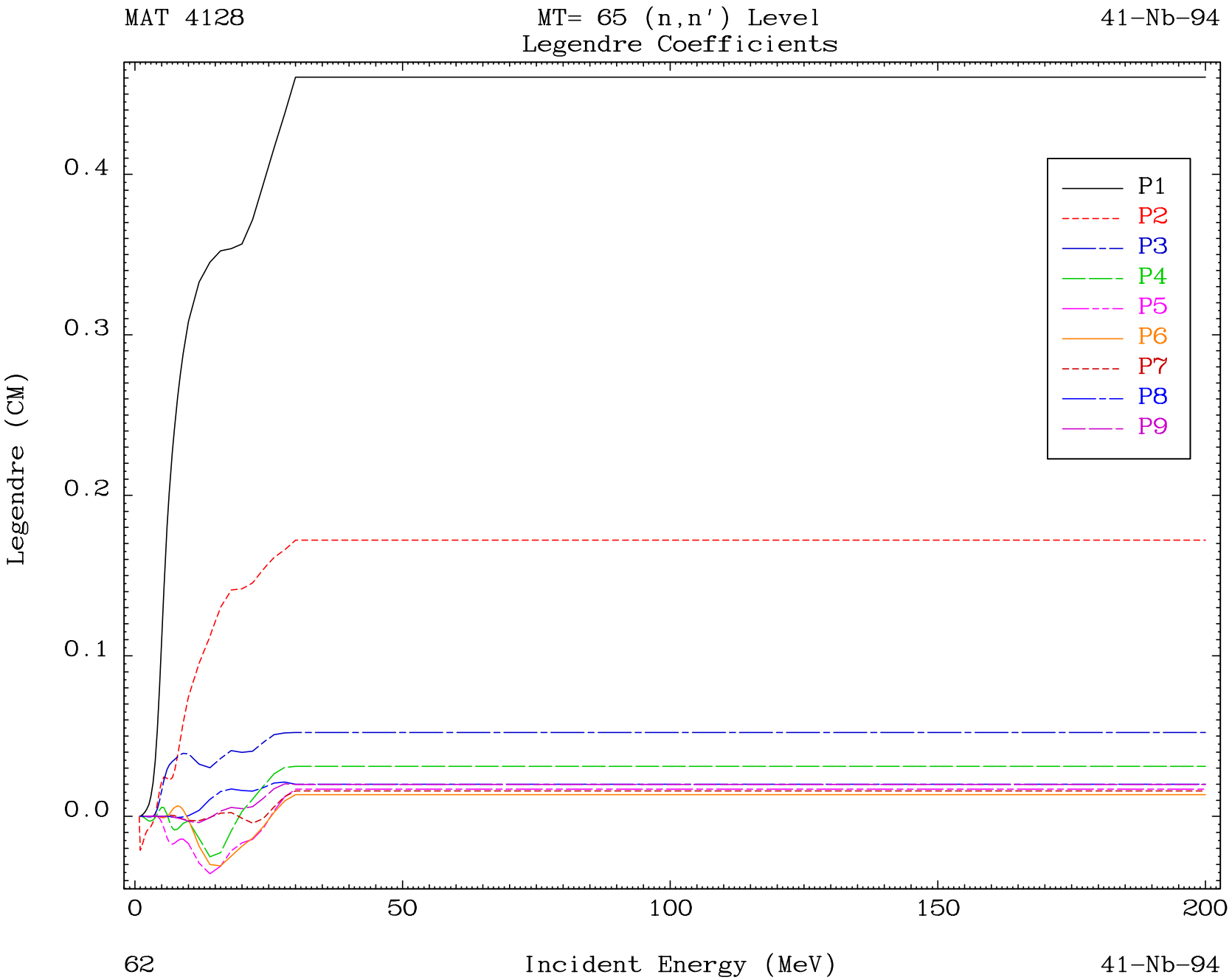

MAT 4128
MT= 62 (n,n') Level
Legendre Coefficients
41-Nb-94
0.0
X10^-6
-0.5
-1.0
-1.5
-2.0
Legendre (CM)
50
100
150
200
57
Incident Energy (MeV)
41-Nb-94
P17
P18
P19
P20
P21
P22
P23
P24

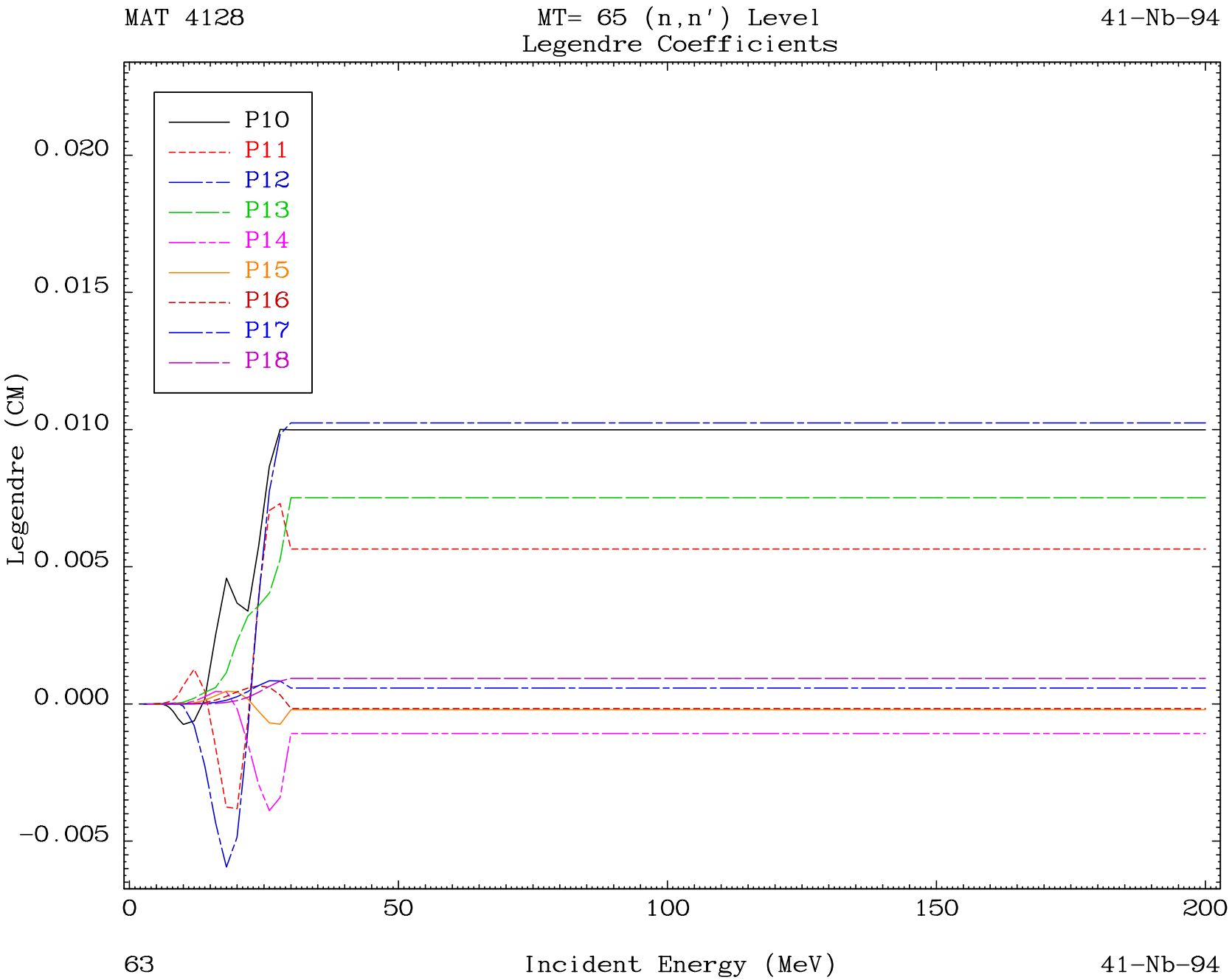

MAT 4128
MT= 63 (n,n') Level
Legendre Coefficients
41-Nb-94
0.02
0.01
0.00
-0.01
-0.02
-0.03
Legendre (CM)
0
50
100
150
200
58
Incident Energy (MeV)
41-Nb-94
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11

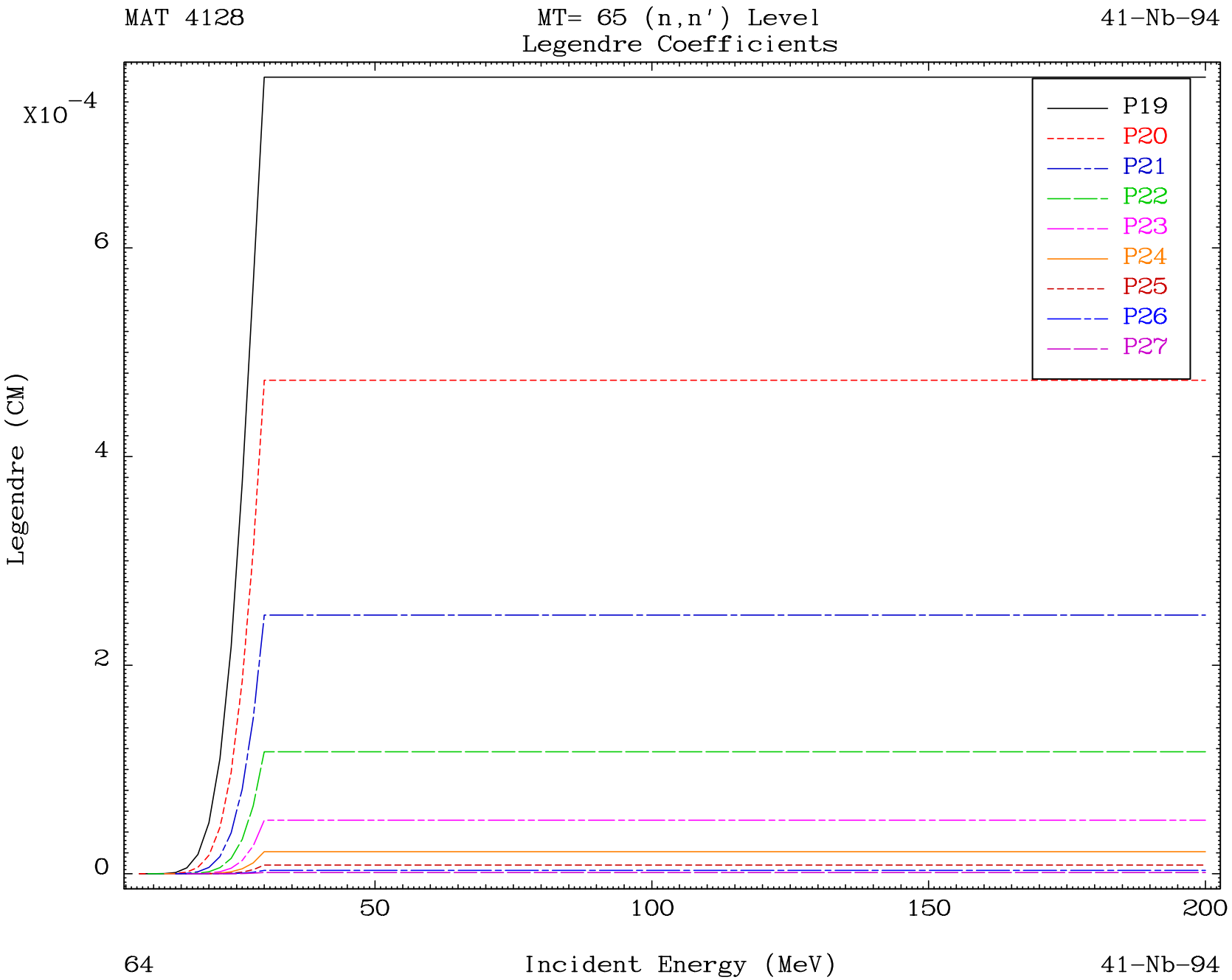

MAT 4128
MT= 63 (n,n') Level
Legendre Coefficients
41-Nb-94
X10^-4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
50
100
150
200
P12
P13
P14
P15
P16
P17
P18
P19
P20
P21
P22
59
Incident Energy (MeV)
41-Nb-94

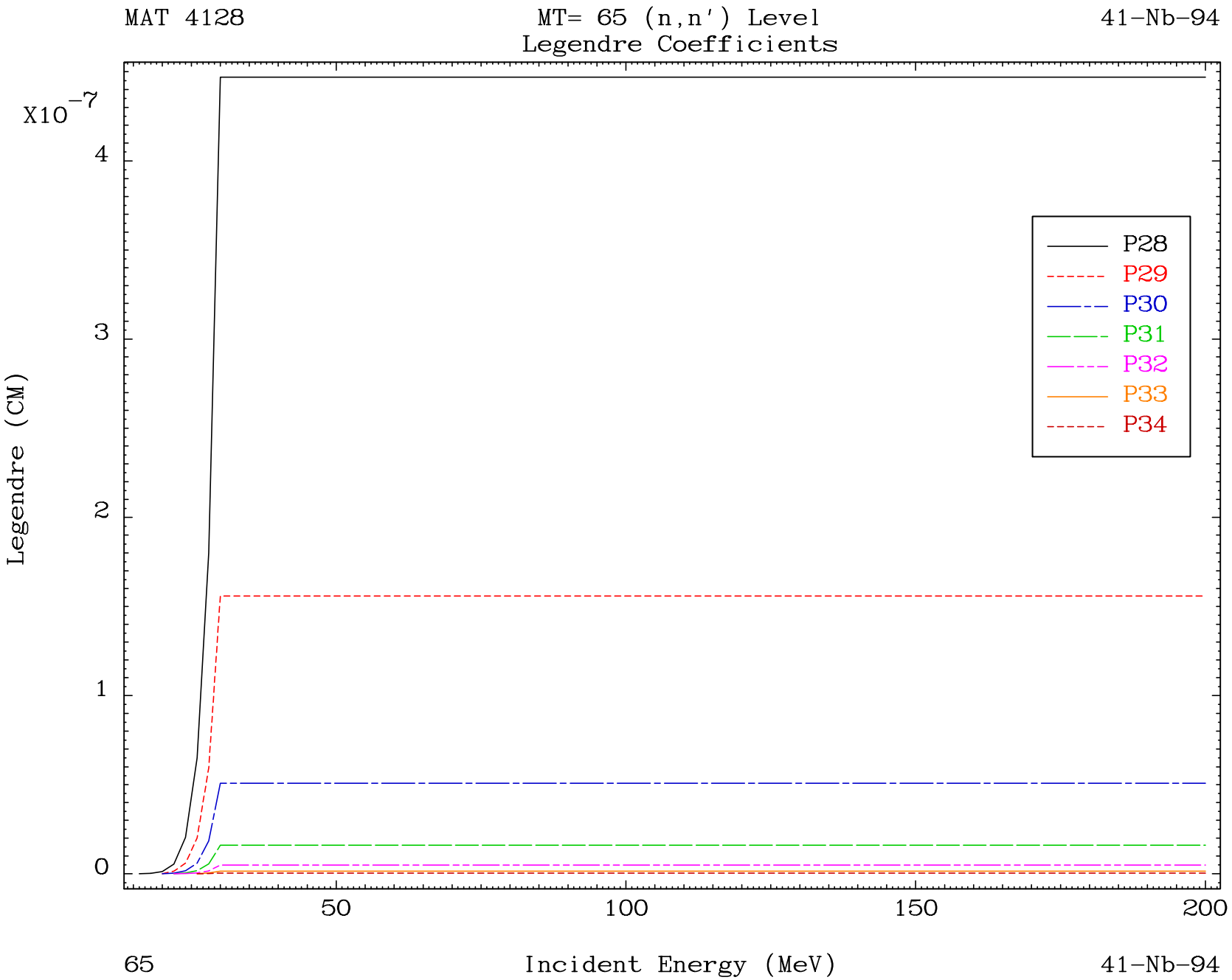

MAT 4128
MT= 64 (n,n') Level
Legendre Coefficients
41-Nb-94
0.02
0.01
0.00
-0.01
-0.02
-0.03
Legendre (CM)
0
50
100
150
200
60
Incident Energy (MeV)
41-Nb-94
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11

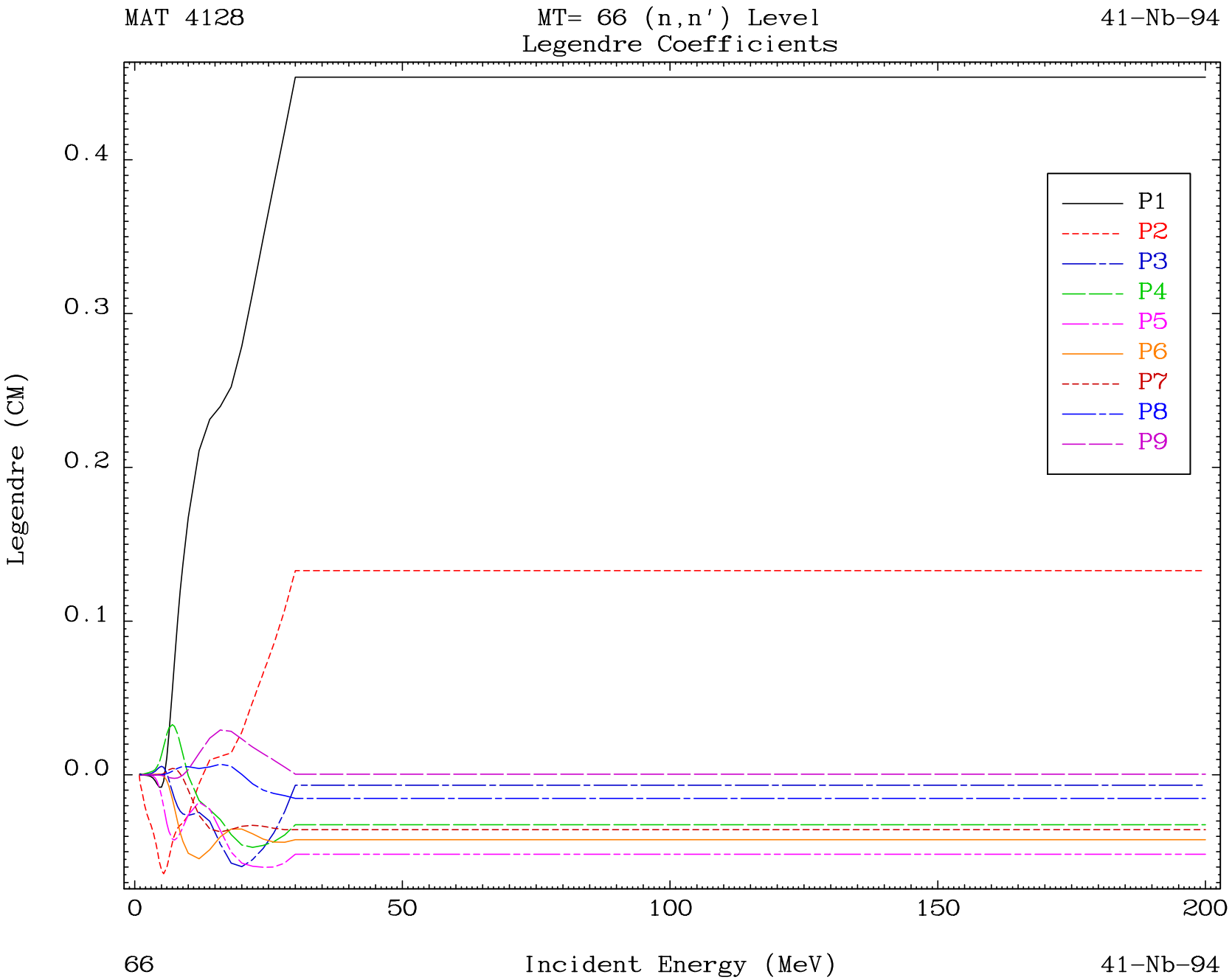

MAT 4128
MT= 64 (n,n') Level
Legendre Coefficients
41-Nb-94
X10^-4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
50
100
150
200
61
Incident Energy (MeV)
41-Nb-94
P12
P13
P14
P15
P16
P17
P18
P19
P20
P21
P22

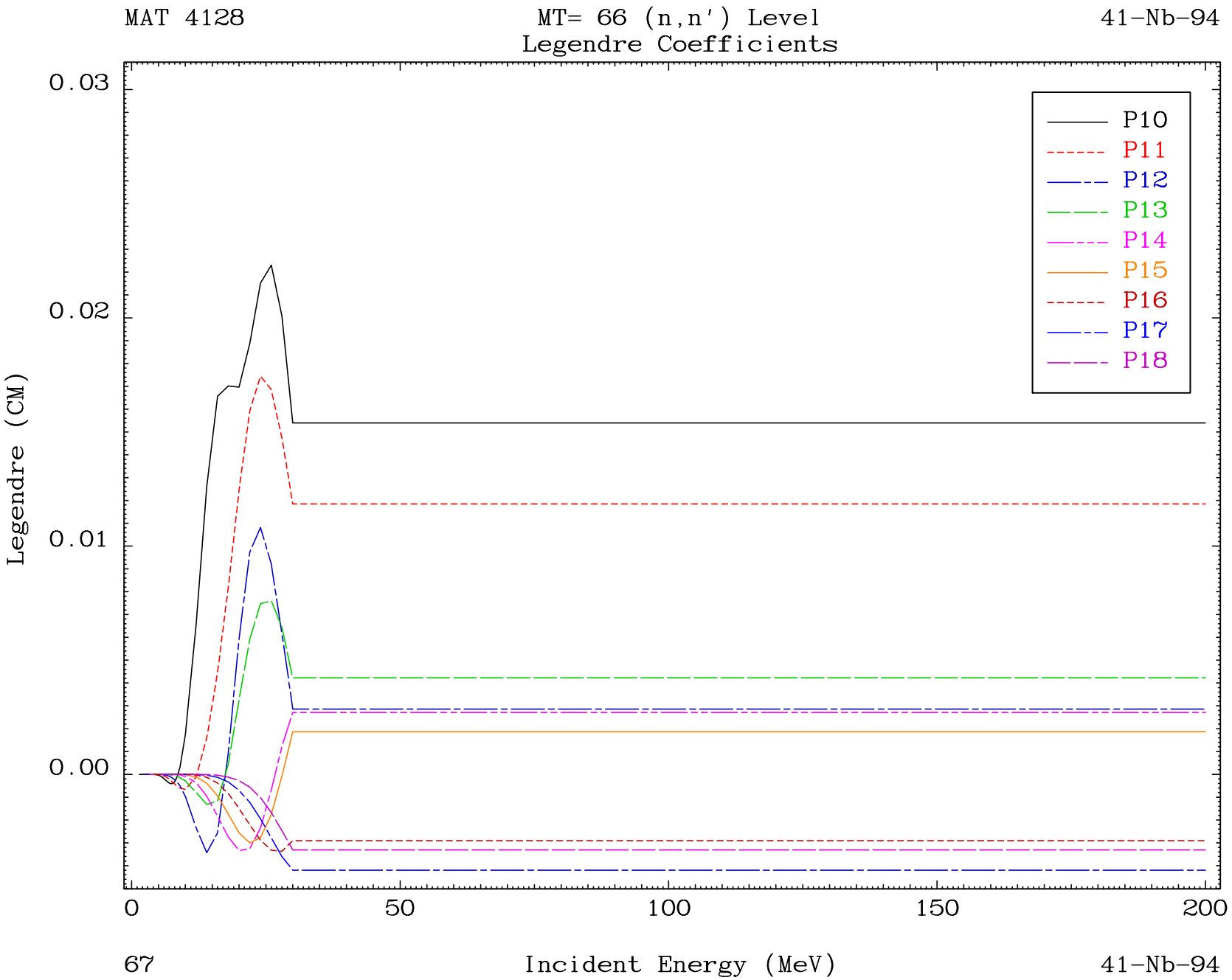

MAT 4128
MT= 65 (n,n') Level
Legendre Coefficients
41-Nb-94
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
62
Incident Energy (MeV)
41-Nb-94

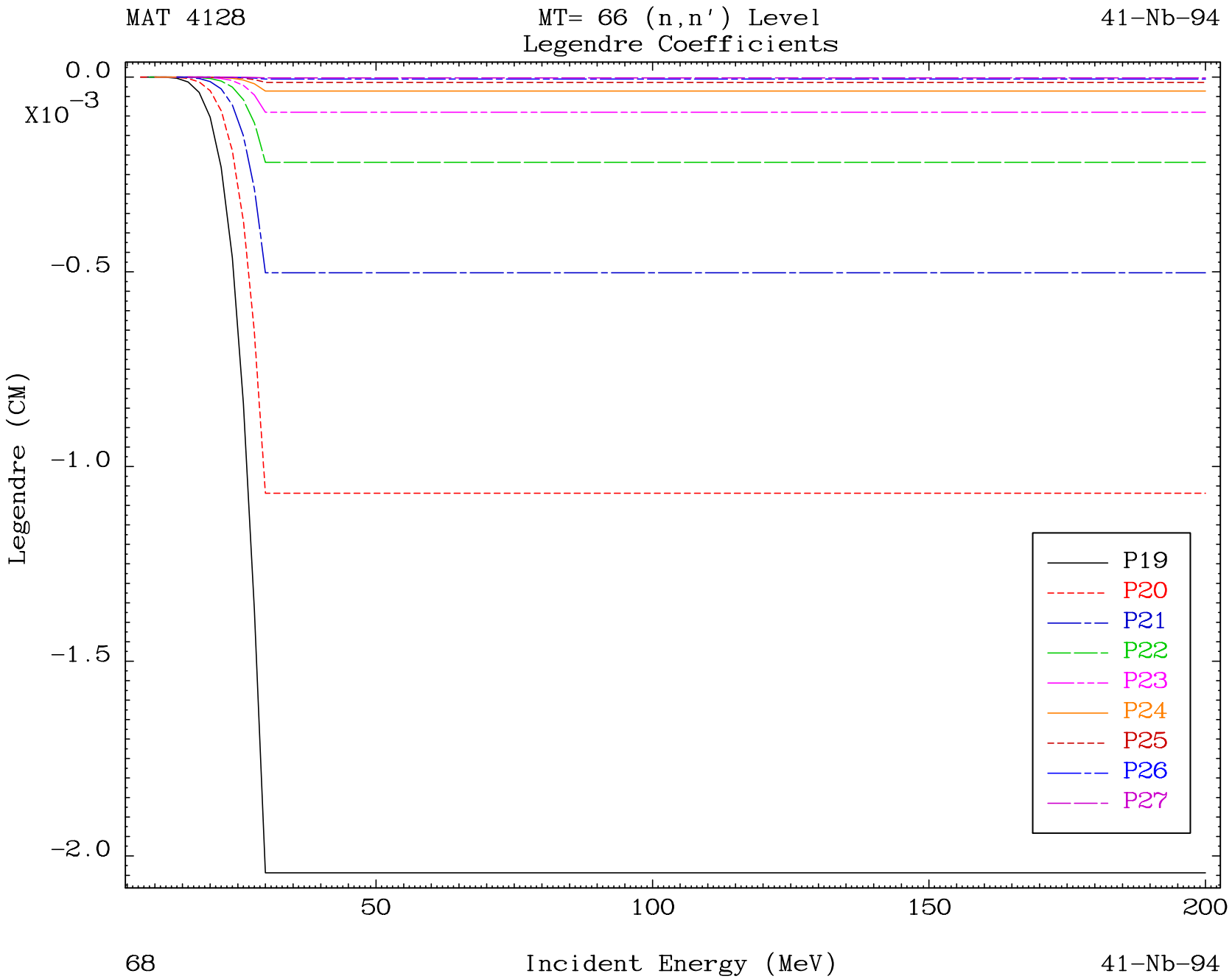

MAT 4128
MT= 65 (n,n') Level
Legendre Coefficients
41-Nb-94
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.020
0.015
0.010
0.005
0.000
-0.005
Legendre (CM)
0
50
100
150
200
63
Incident Energy (MeV)
41-Nb-94

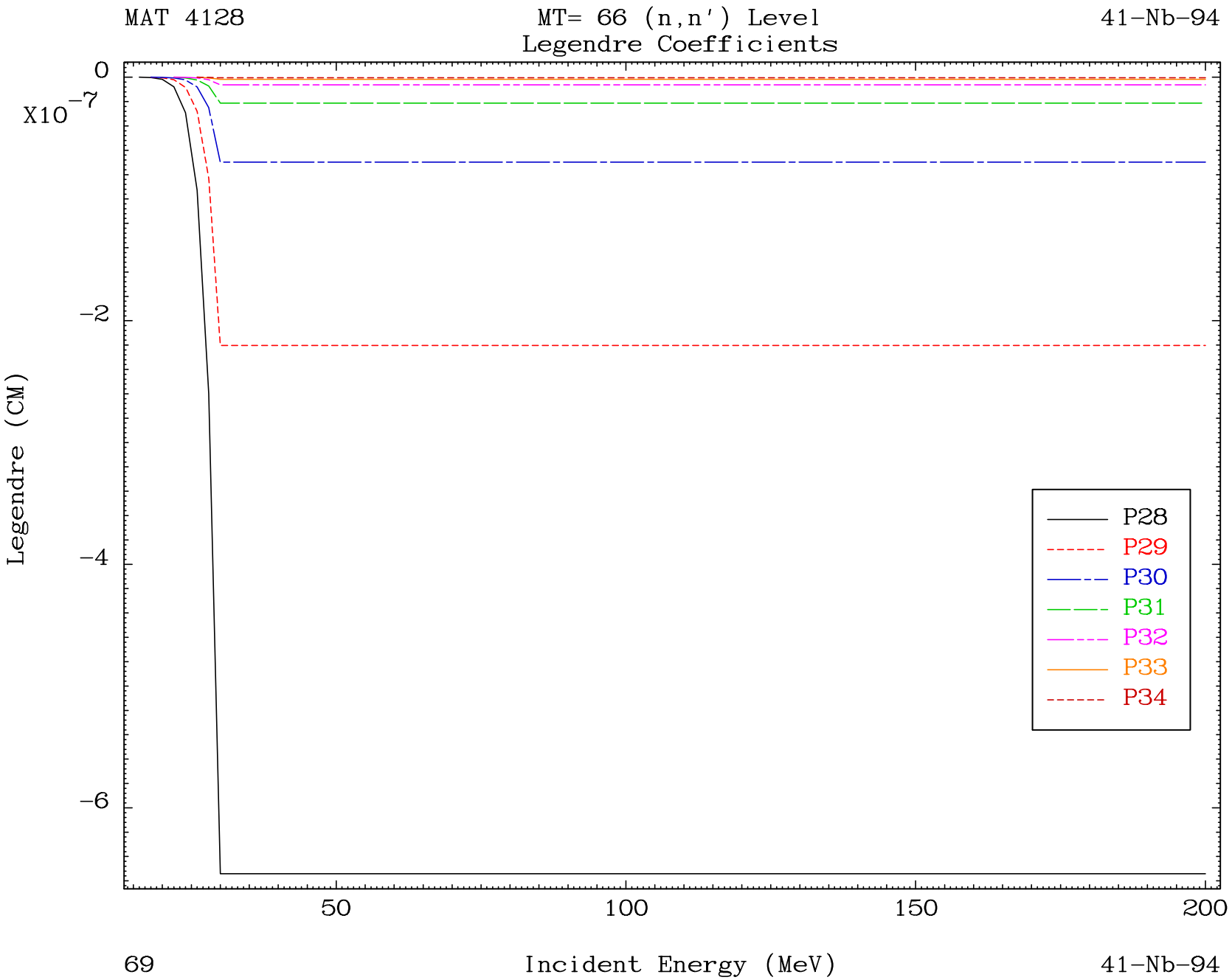

MAT 4128
MT= 65 (n,n') Level
Legendre Coefficients
41-Nb-94
X10^-4
6
4
2
0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
64
Incident Energy (MeV)
41-Nb-94

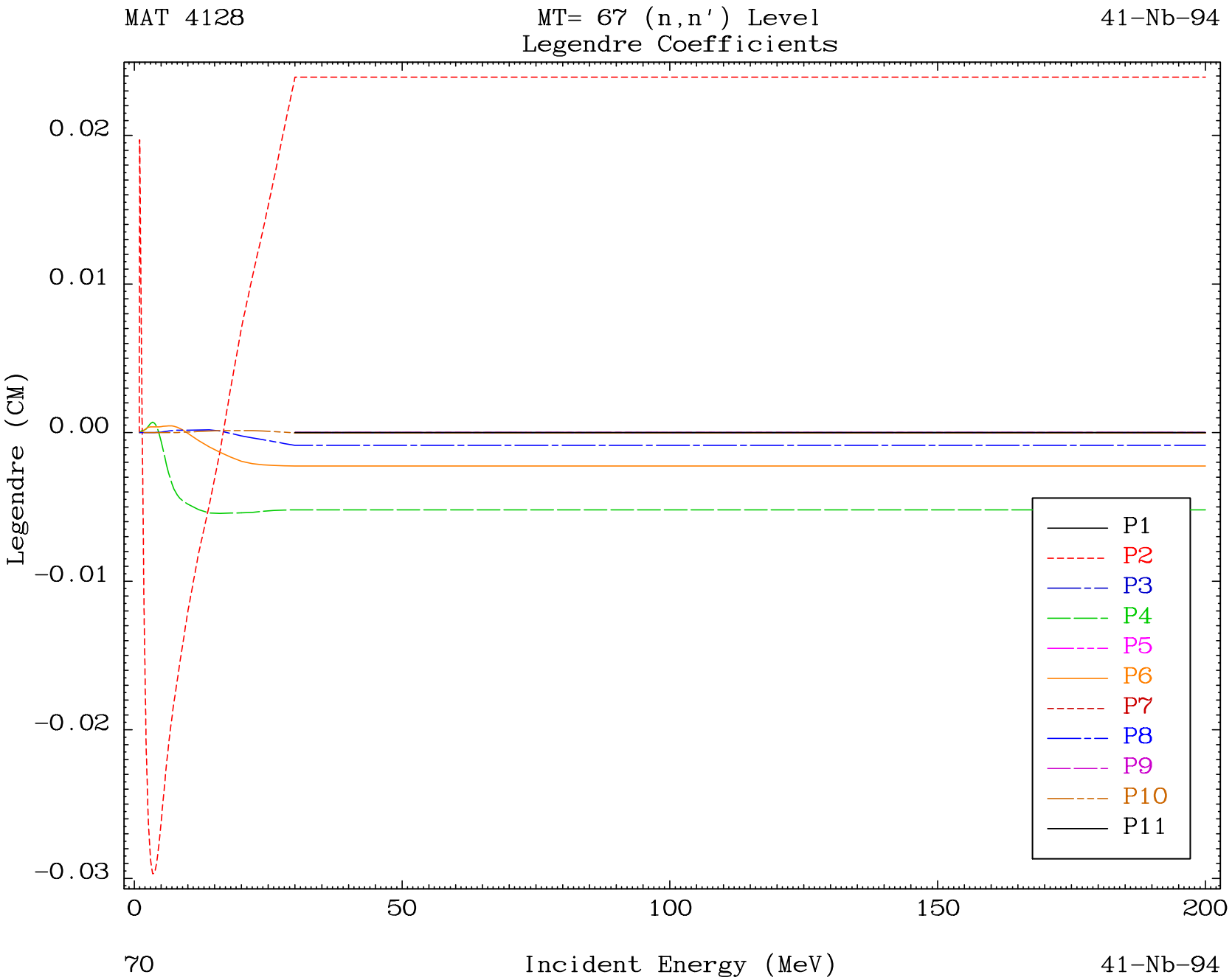

MAT 4128
MT= 65 (n,n') Level
Legendre Coefficients
41-Nb-94
X10-7
4
3
2
1
0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
65
Incident Energy (MeV)
41-Nb-94

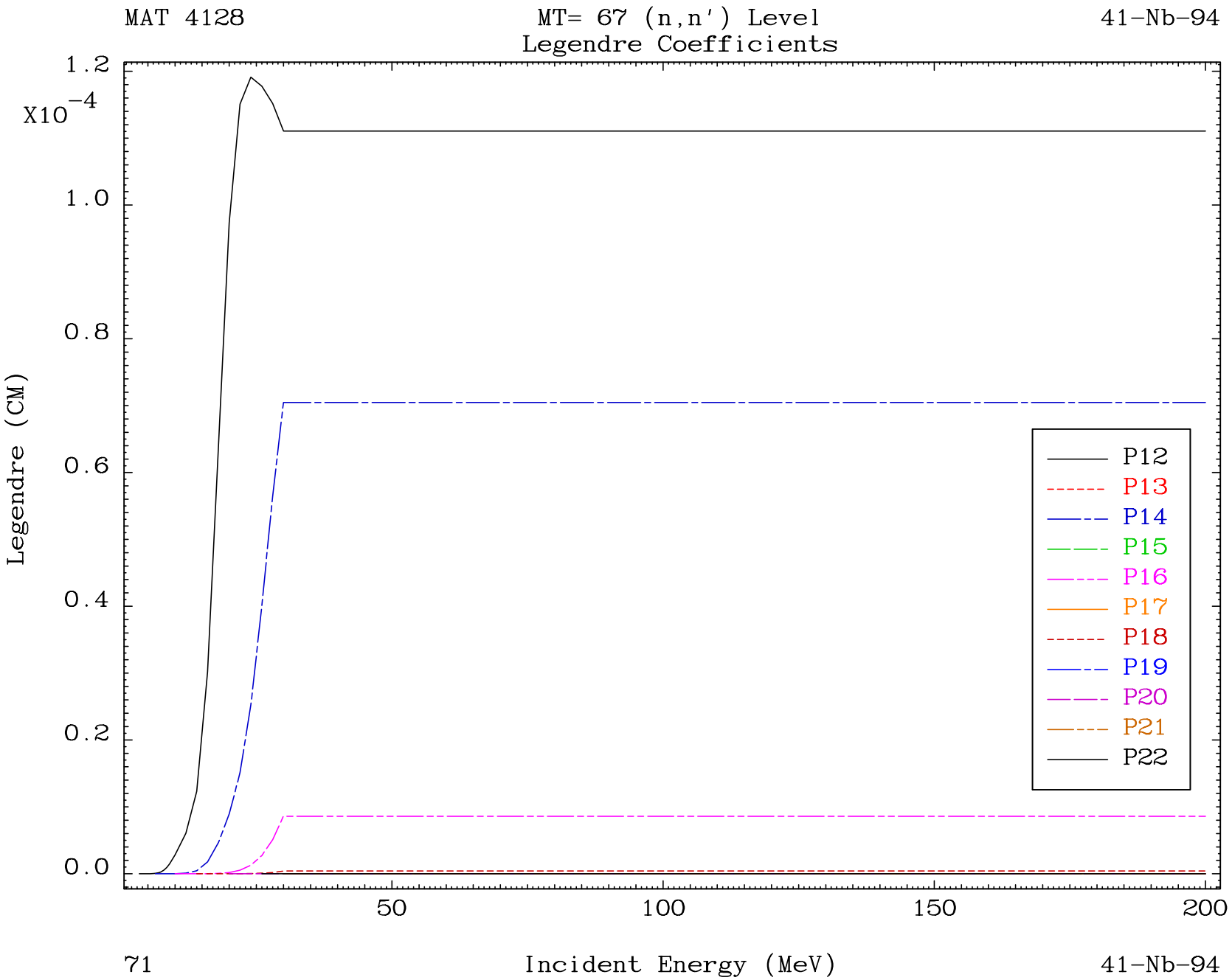

MAT 4128
MT= 66 (n,n') Level
Legendre Coefficients
41-Nb-94
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
66
Incident Energy (MeV)
41-Nb-94
P1
P2
P3
P4
P5
P6
P7
P8
P9

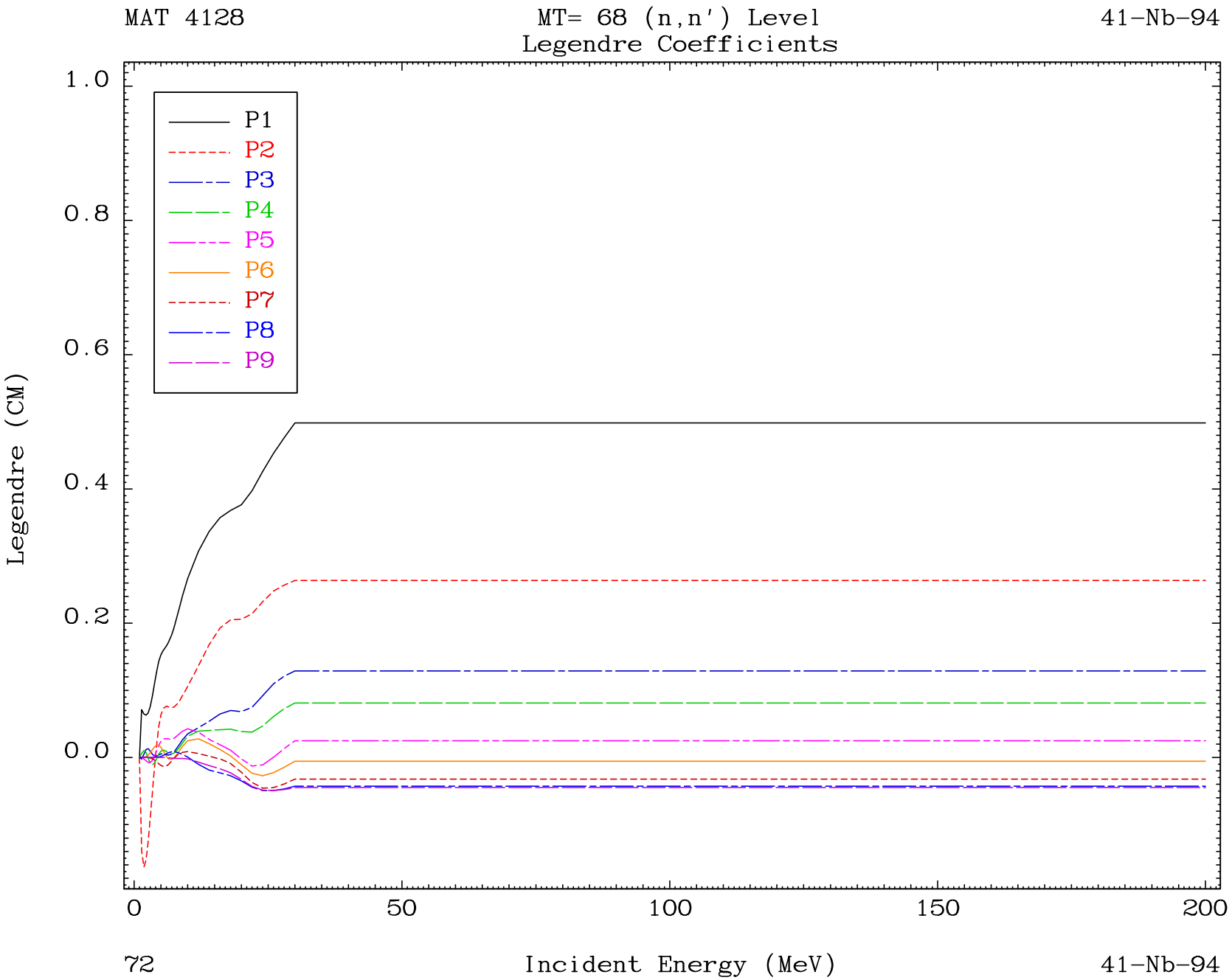

MAT 4128
MT= 66 (n,n') Level
Legendre Coefficients
41-Nb-94
0.03
0.02
0.01
0.00
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
67
Incident Energy (MeV)
41-Nb-94

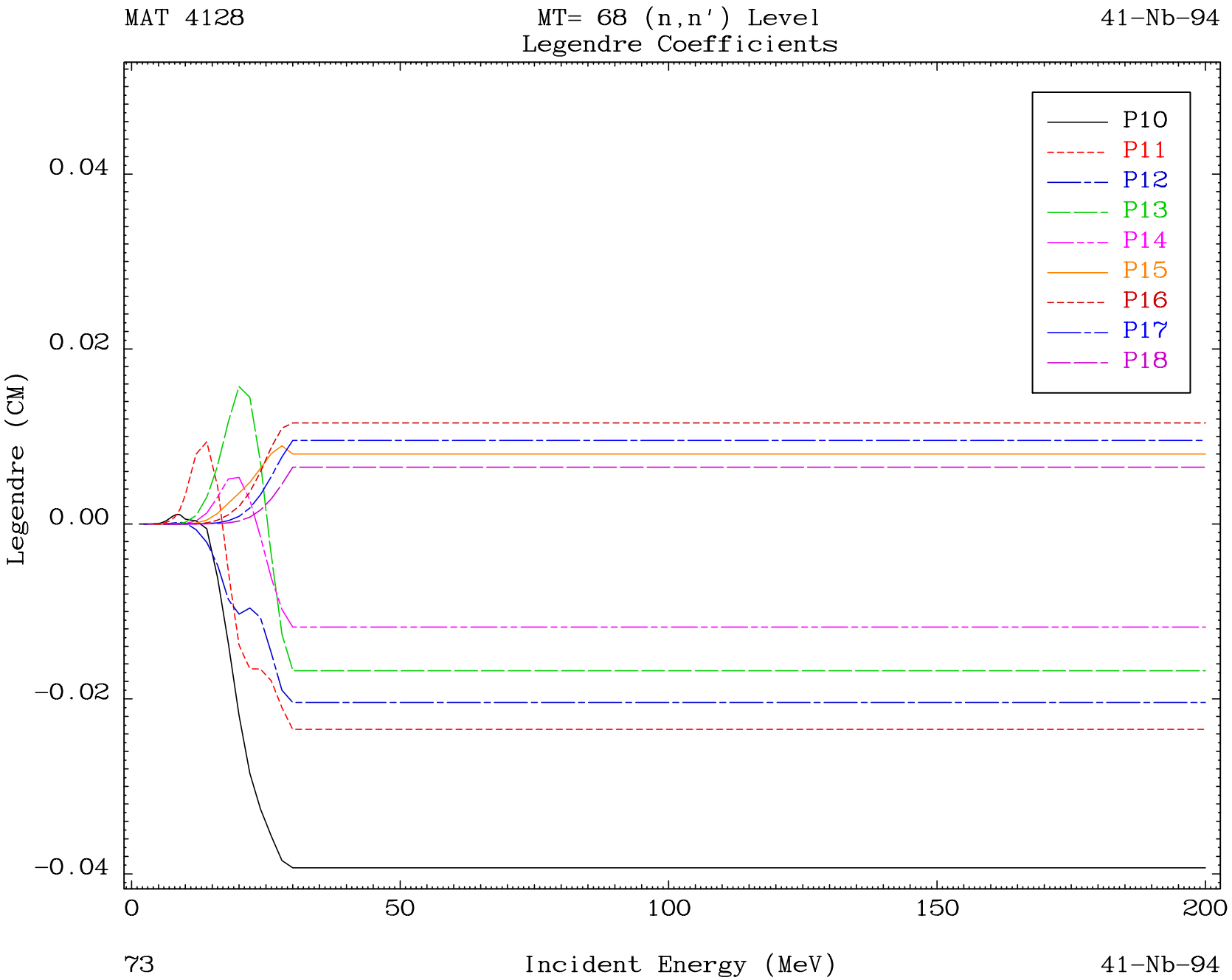

MAT 4128
MT= 66 (n,n') Level
Legendre Coefficients
41-Nb-94
0.0
X10^-3
-0.5
-1.0
-1.5
-2.0
Legendre (CM)
50
100
150
200
68
Incident Energy (MeV)
41-Nb-94
P19
P20
P21
P22
P23
P24
P25
P26
P27

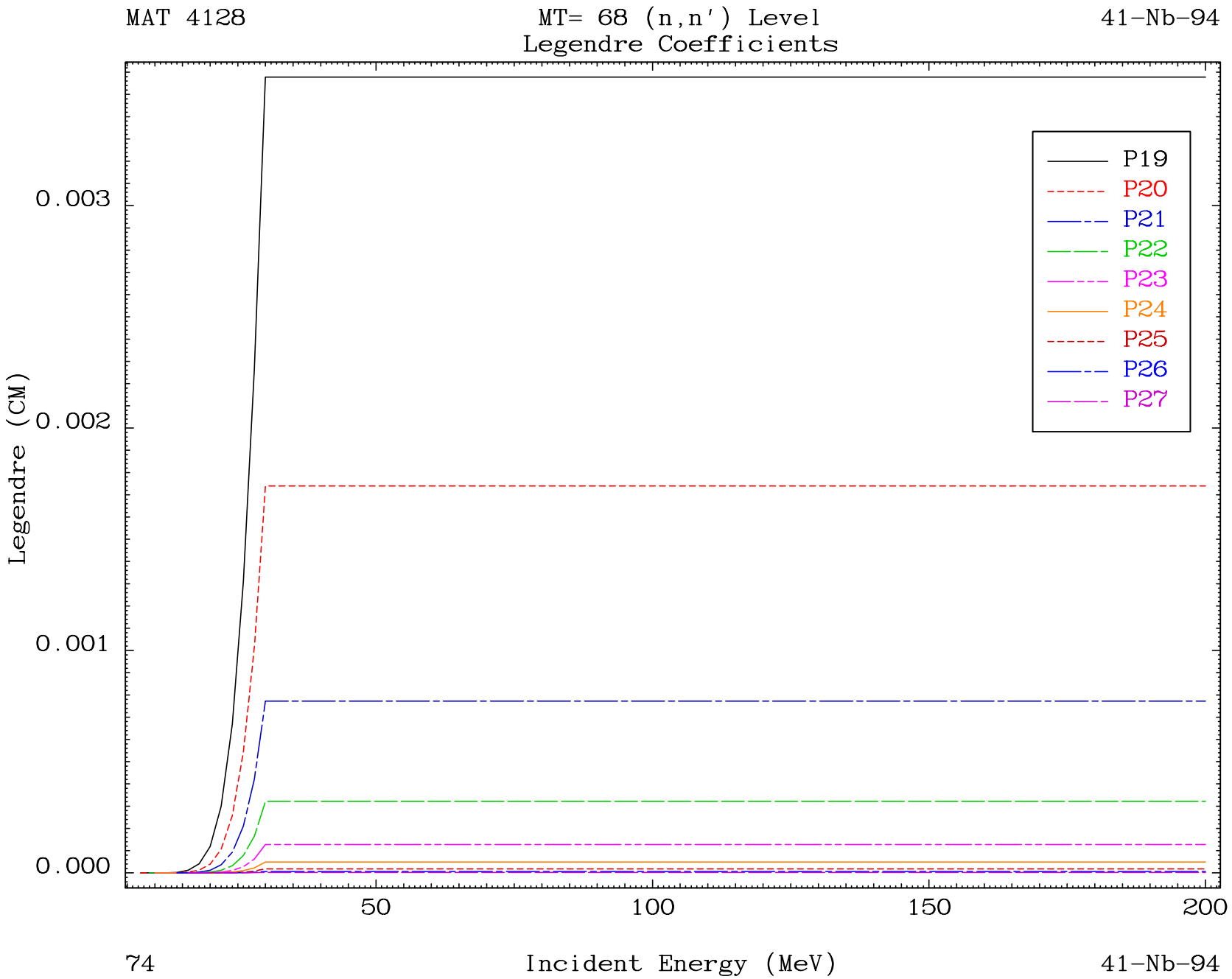

MAT 4128
MT= 66 (n,n') Level
Legendre Coefficients
41-Nb-94
0
X10-7
-2
-4
-6
Legendre (CM)
50
100
150
200
69
Incident Energy (MeV)
41-Nb-94
P28
P29
P30
P31
P32
P33
P34

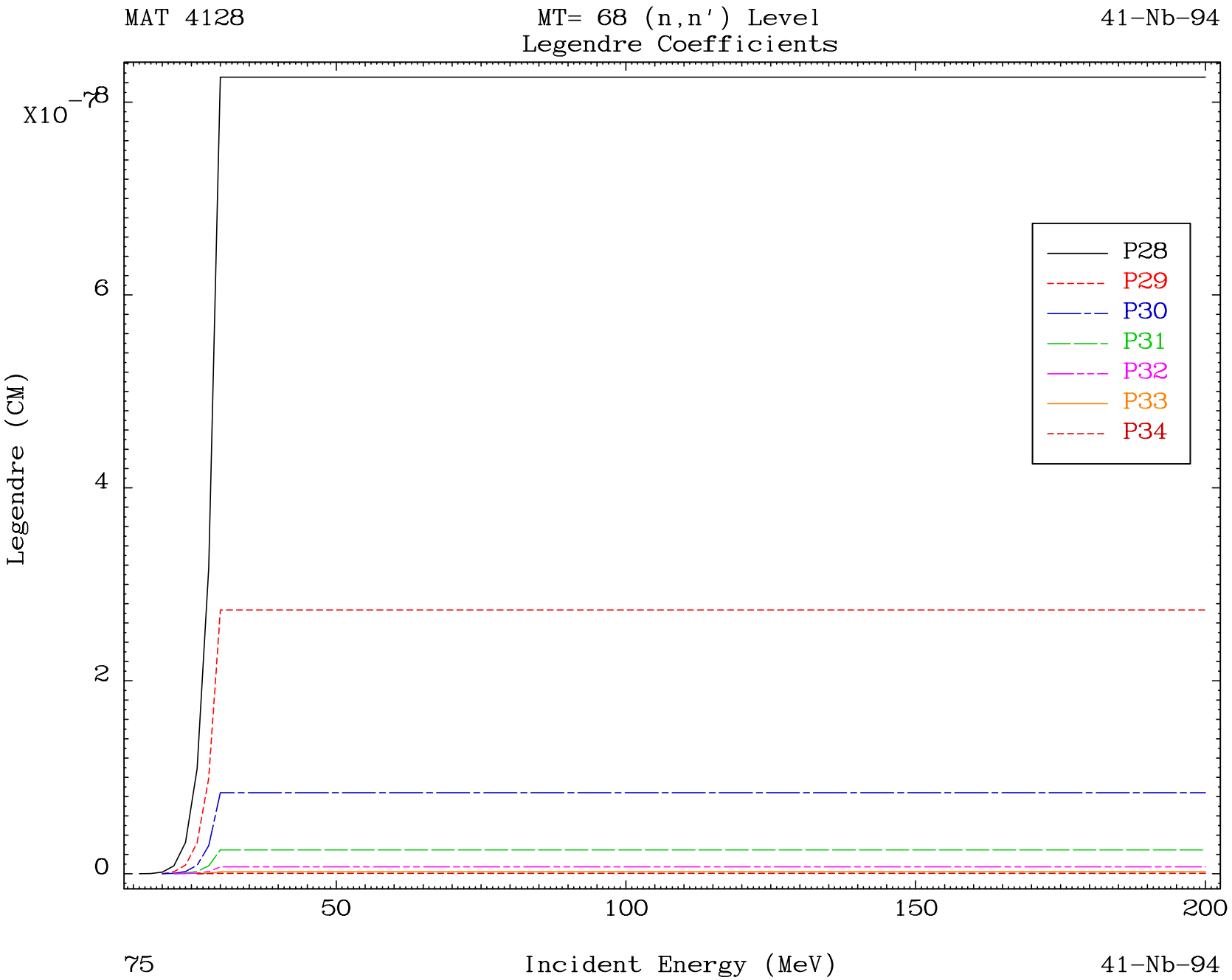

MAT 4128
MT= 67 (n,n') Level
Legendre Coefficients
41-Nb-94
0.02
0.01
0.00
-0.01
-0.02
-0.03
Legendre (CM)
0
50
100
150
200
70
Incident Energy (MeV)
41-Nb-94
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11

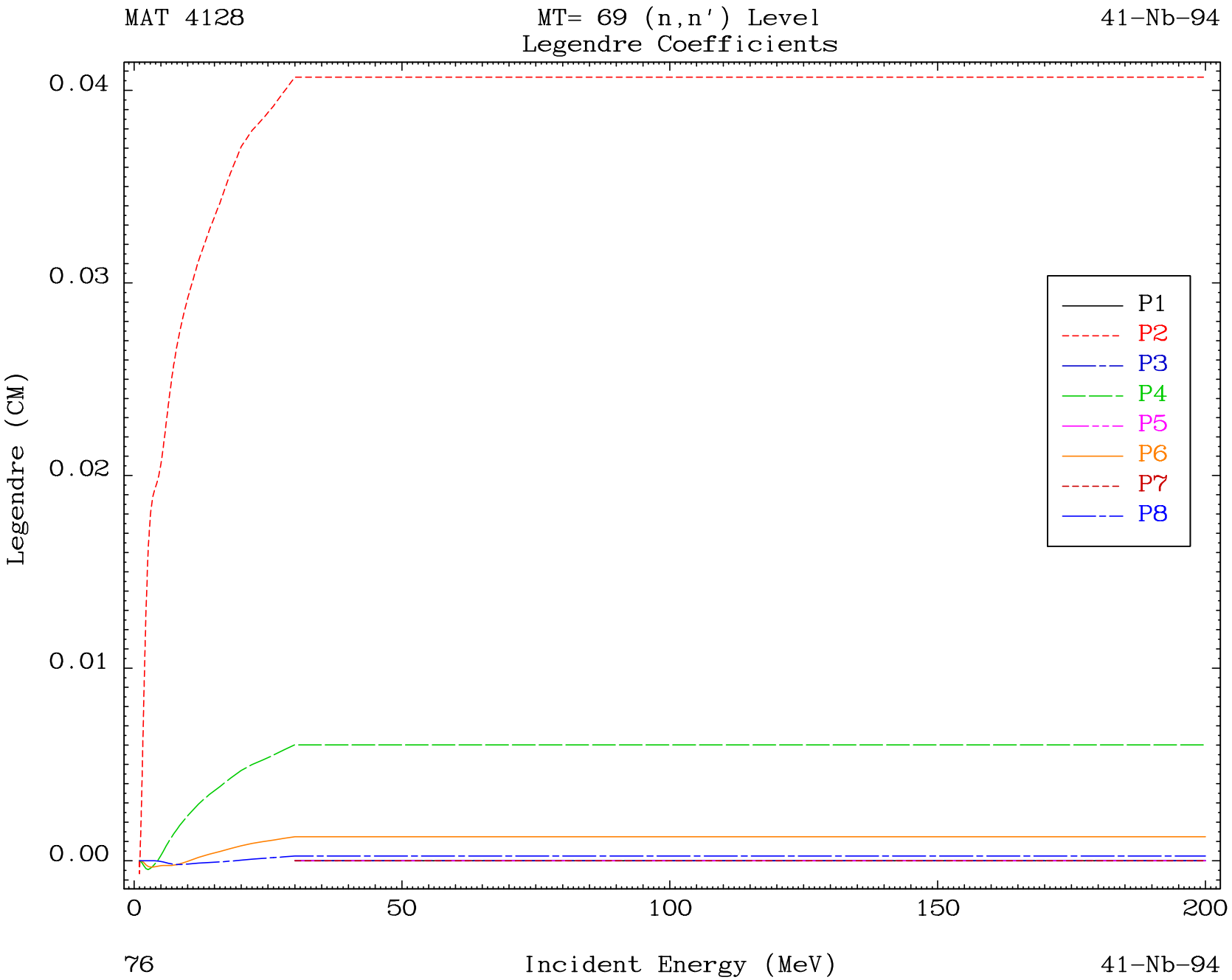

MAT 4128
MT= 67 (n,n') Level
Legendre Coefficients
41-Nb-94
X10^-4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
50
100
150
200
71
Incident Energy (MeV)
41-Nb-94
P12
P13
P14
P15
P16
P17
P18
P19
P20
P21
P22

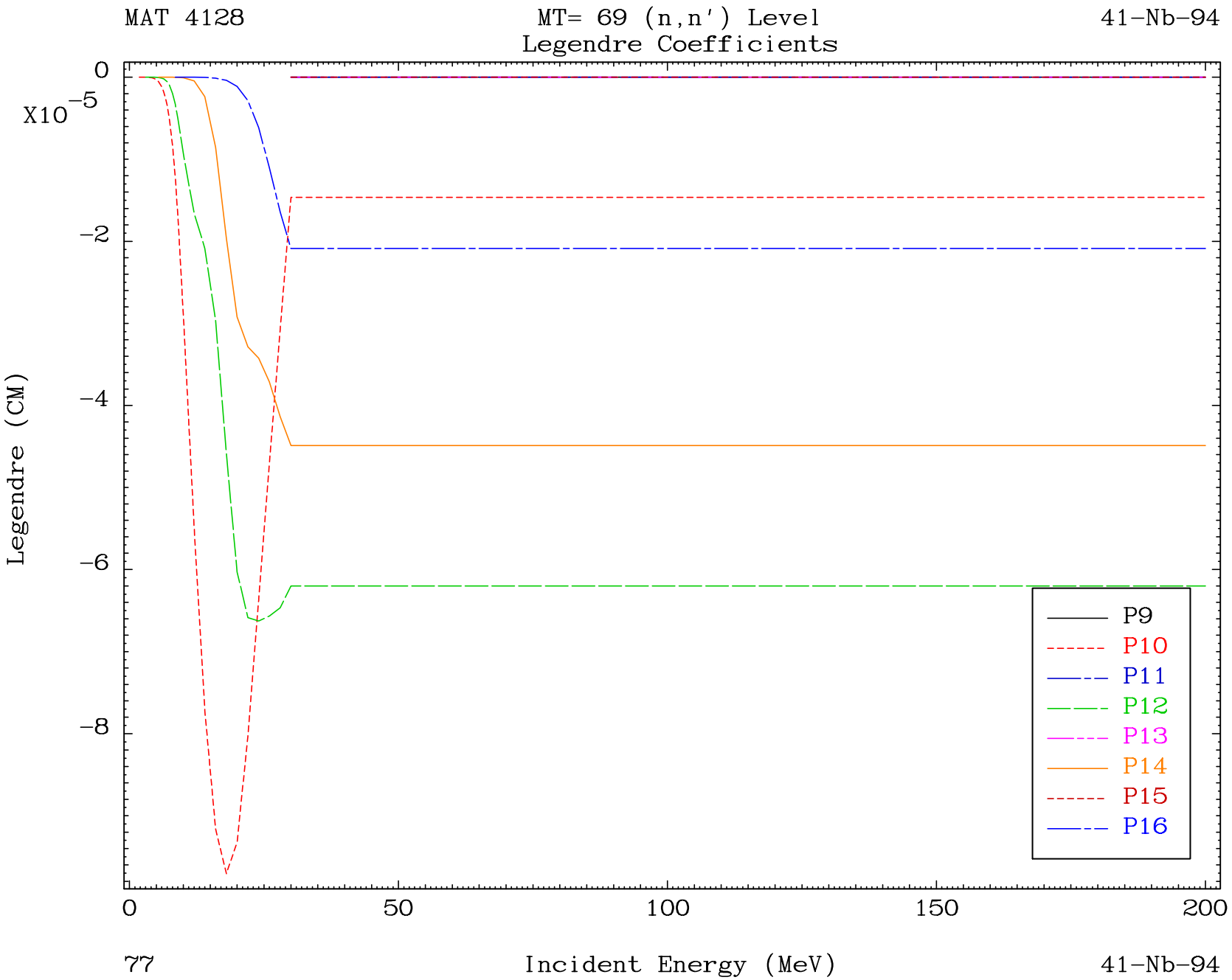

MAT 4128
MT= 68 (n,n') Level
Legendre Coefficients
41-Nb-94
P1
P2
P3
P4
P5
P6
P7
P8
P9
Legendre (CM)
1.0
0.8
0.6
0.4
0.2
0.0
0
50
100
150
200
72
Incident Energy (MeV)
41-Nb-94

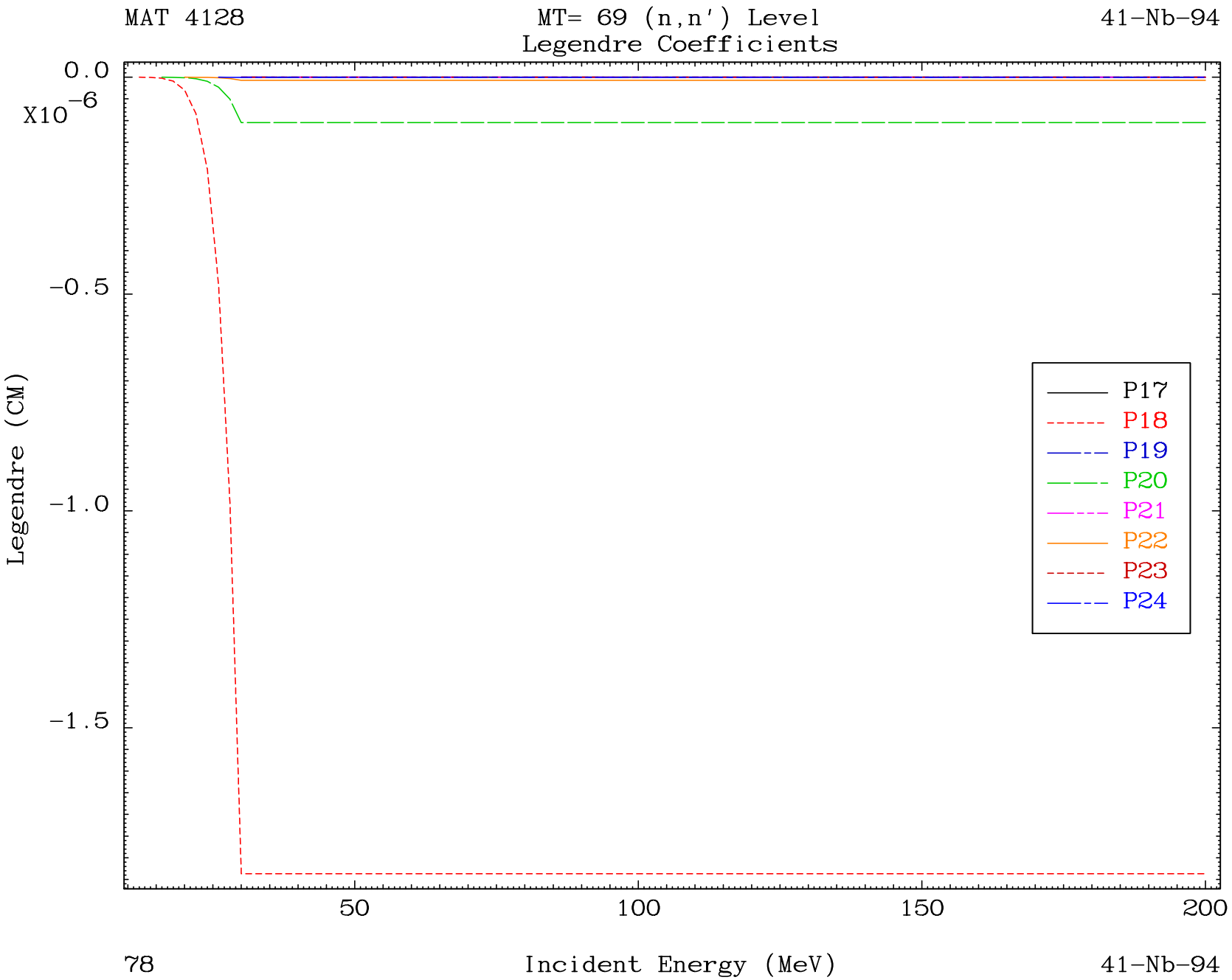

MAT 4128
MT= 68 (n,n') Level
Legendre Coefficients
41-Nb-94
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.04
0.02
0.00
-0.02
-0.04
Legendre (CM)
0
50
100
150
200
73
Incident Energy (MeV)
41-Nb-94

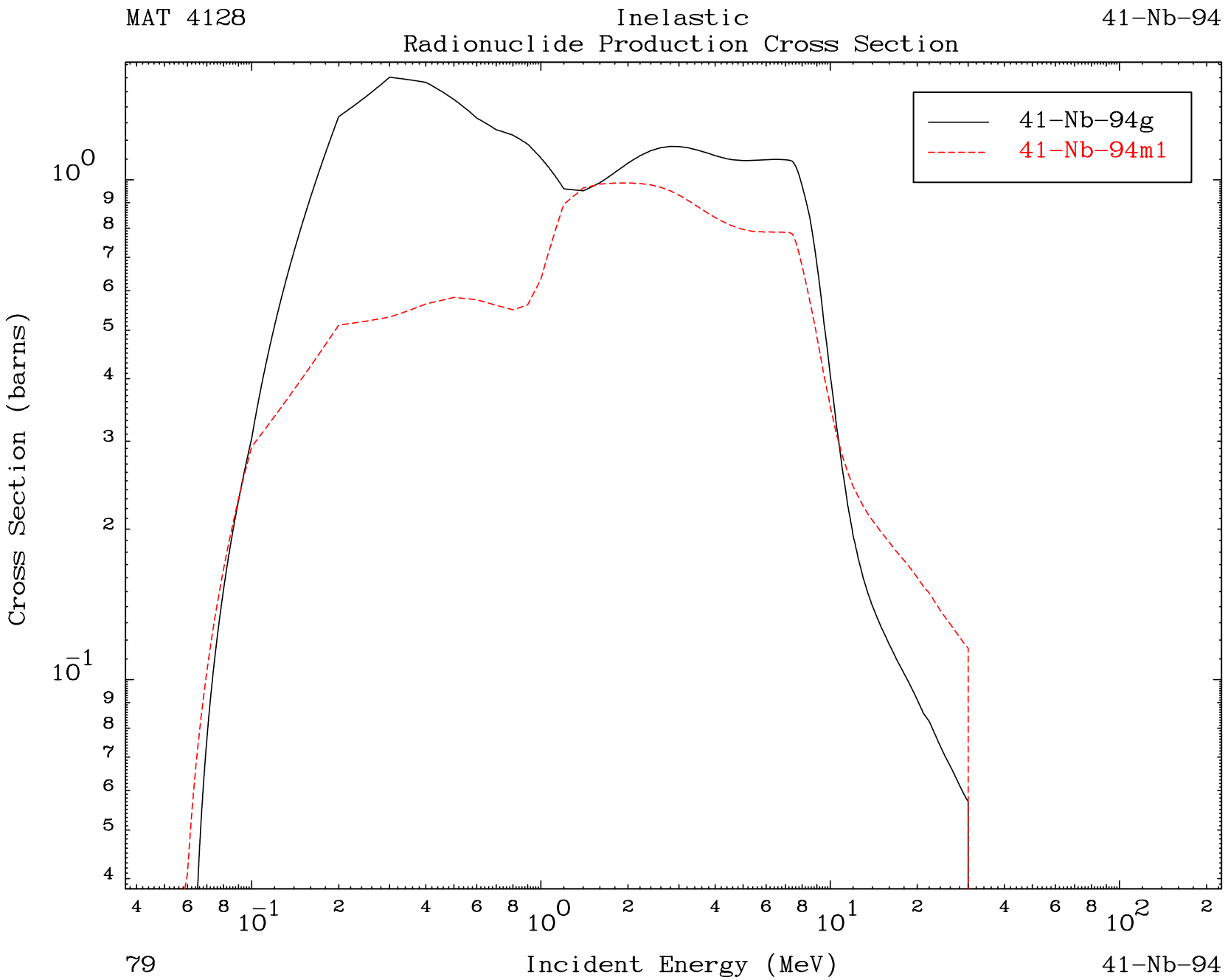

MAT 4128
MT= 68 (n,n') Level
Legendre Coefficients
41-Nb-94
P19
P20
P21
P22
P23
P24
P25
P26
P27
0.003
0.002
0.001
0.000
Legendre (CM)
50
100
150
200
74
Incident Energy (MeV)
41-Nb-94

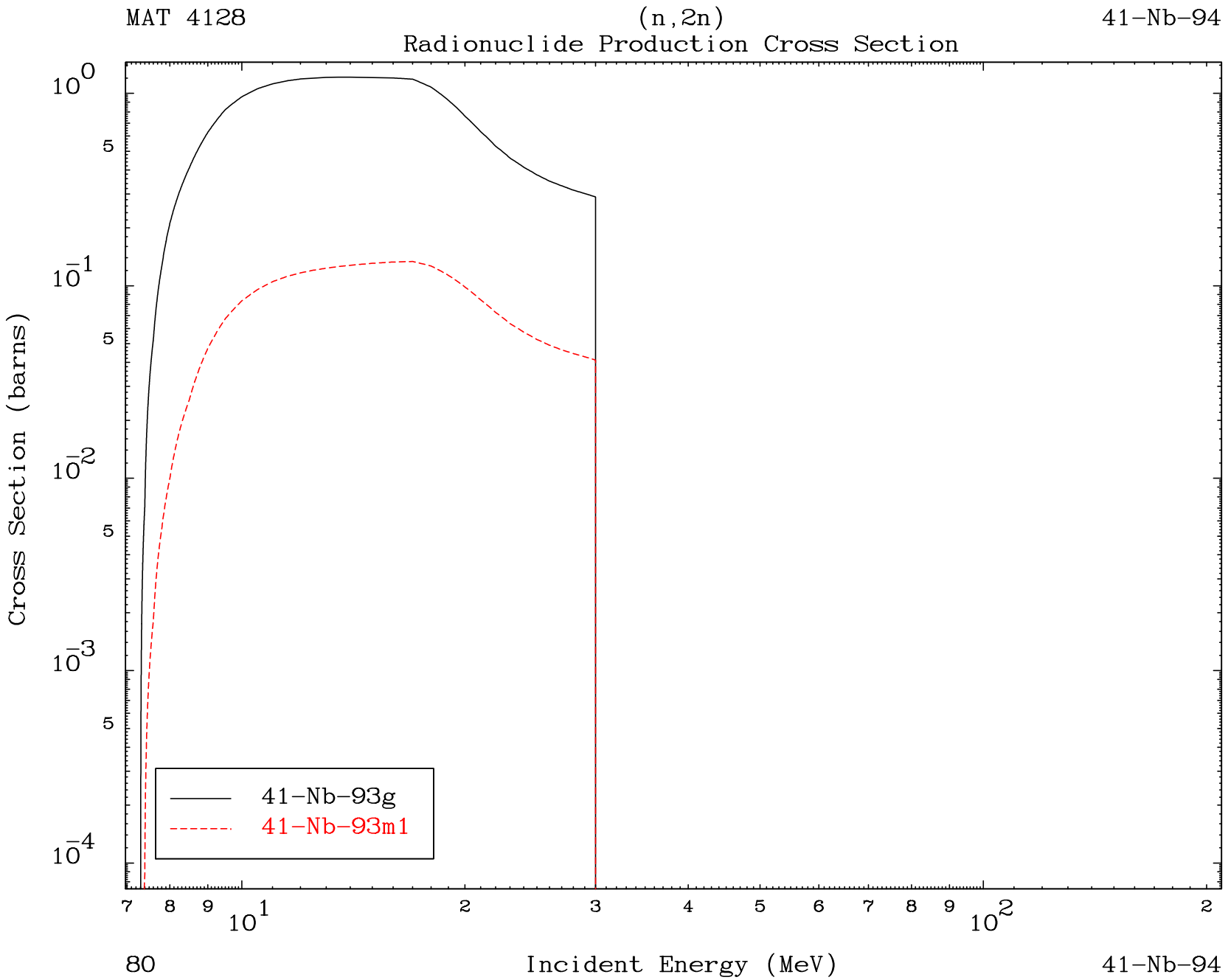

MAT 4128
MT= 68 (n,n') Level
Legendre Coefficients
41-Nb-94
X10-8
6
4
2
0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
75
Incident Energy (MeV)
41-Nb-94

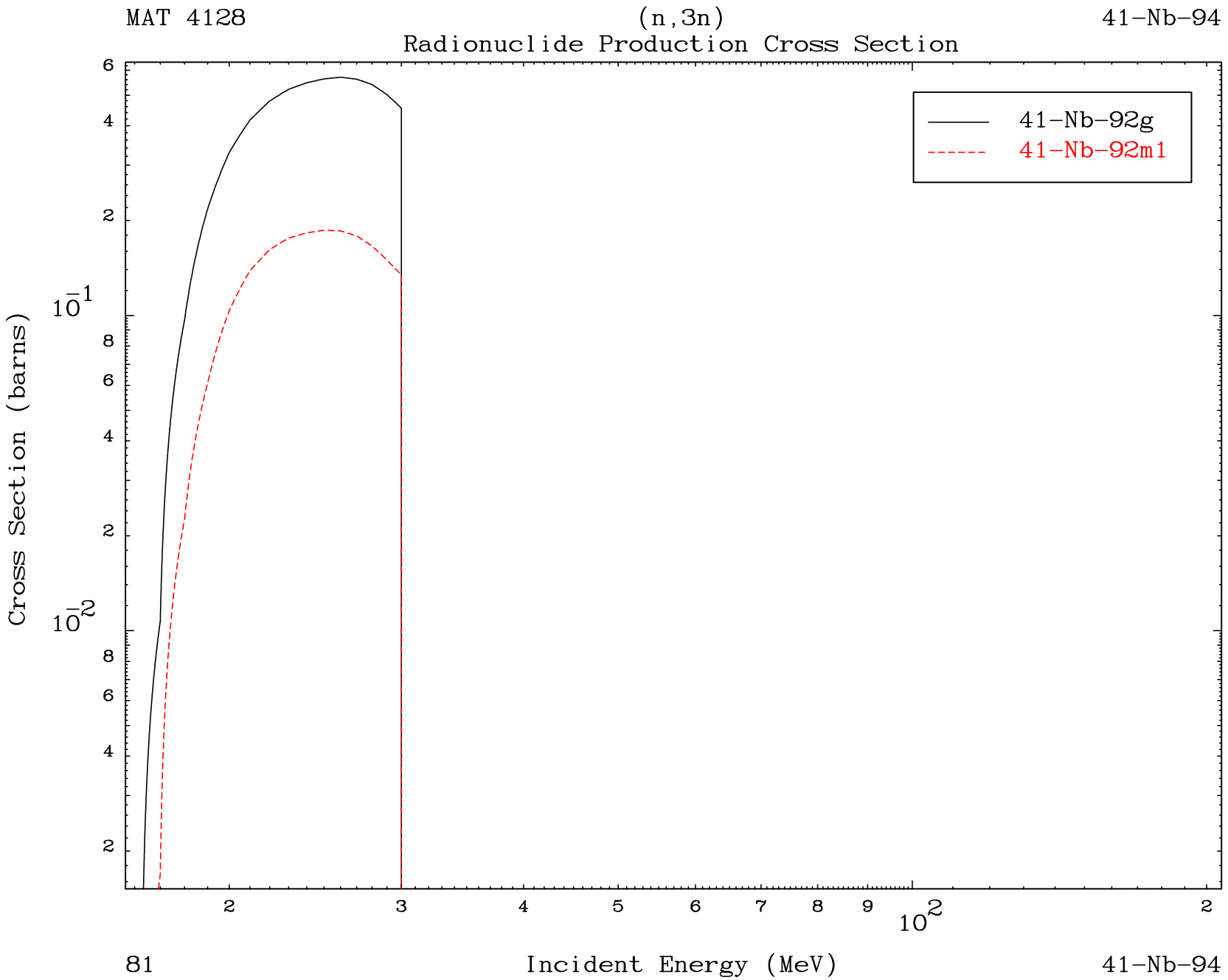

MAT 4128
MT= 69 (n,n') Level
Legendre Coefficients
41-Nb-94
0.04
0.03
0.02
0.01
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
0
50
100
150
200
76
Incident Energy (MeV)
41-Nb-94

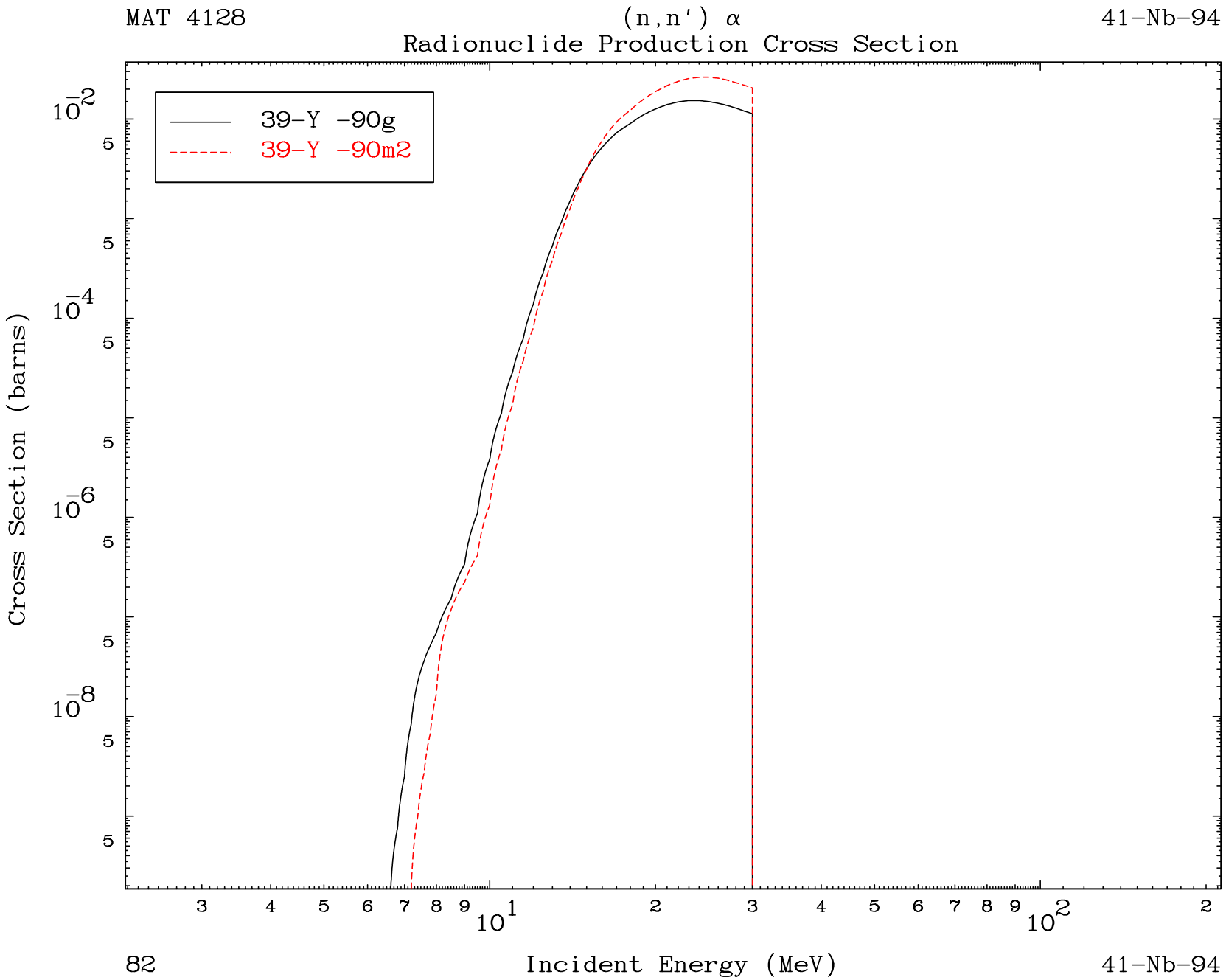

MAT 4128
MT= 69 (n,n') Level
Legendre Coefficients
41-Nb-94
X10 −5
0
−2
−4
−6
−8
Legendre (CM)
0
50
100
150
200
Incident Energy (MeV)
77
41-Nb-94
P9
P10
P11
P12
P13
P14
P15
P16

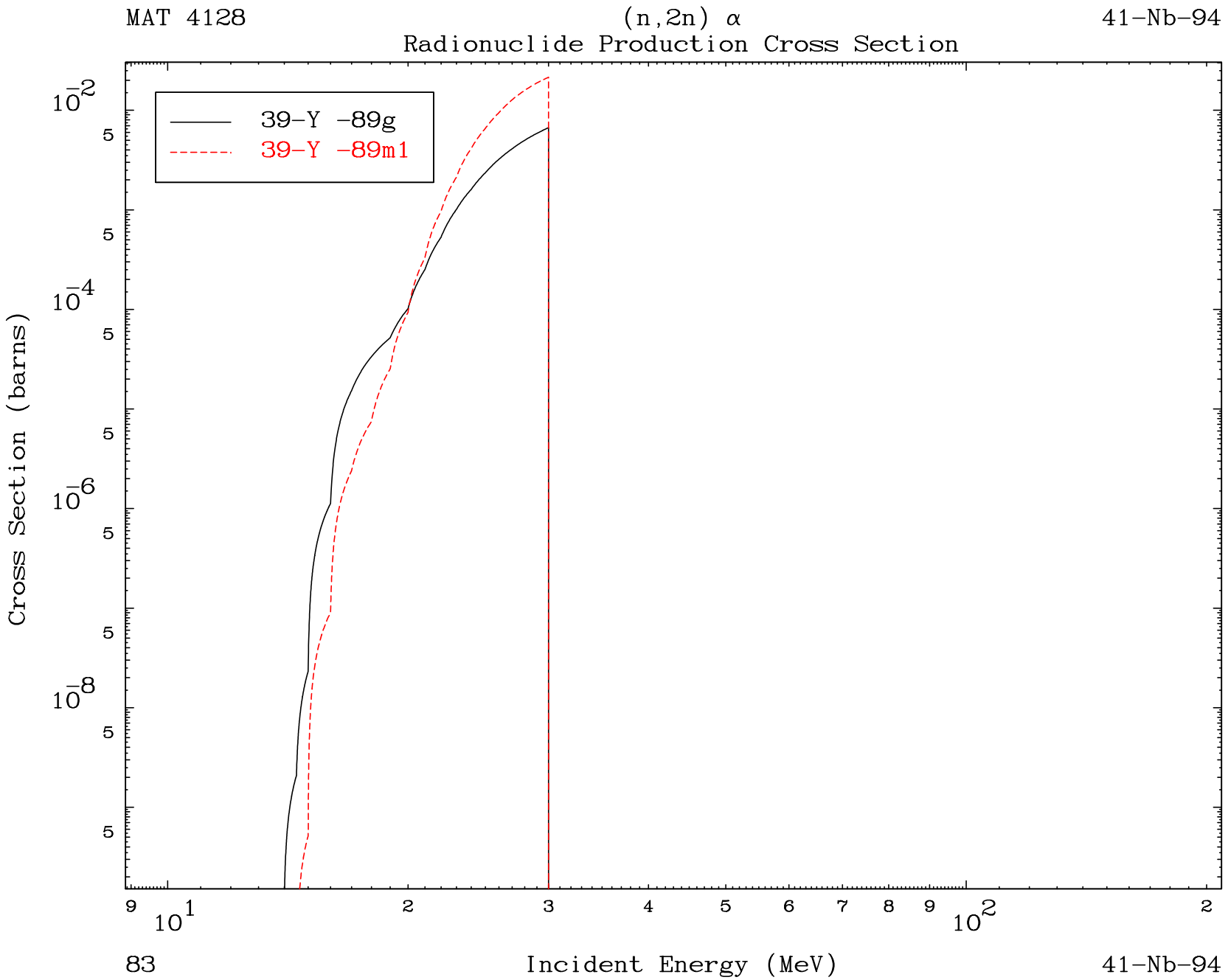

MAT 4128
MT= 69 (n,n') Level
Legendre Coefficients
41-Nb-94
0.0
X10^-6
-0.5
-1.0
-1.5
Legendre (CM)
50
100
150
200
78
Incident Energy (MeV)
41-Nb-94
P17
P18
P19
P20
P21
P22
P23
P24

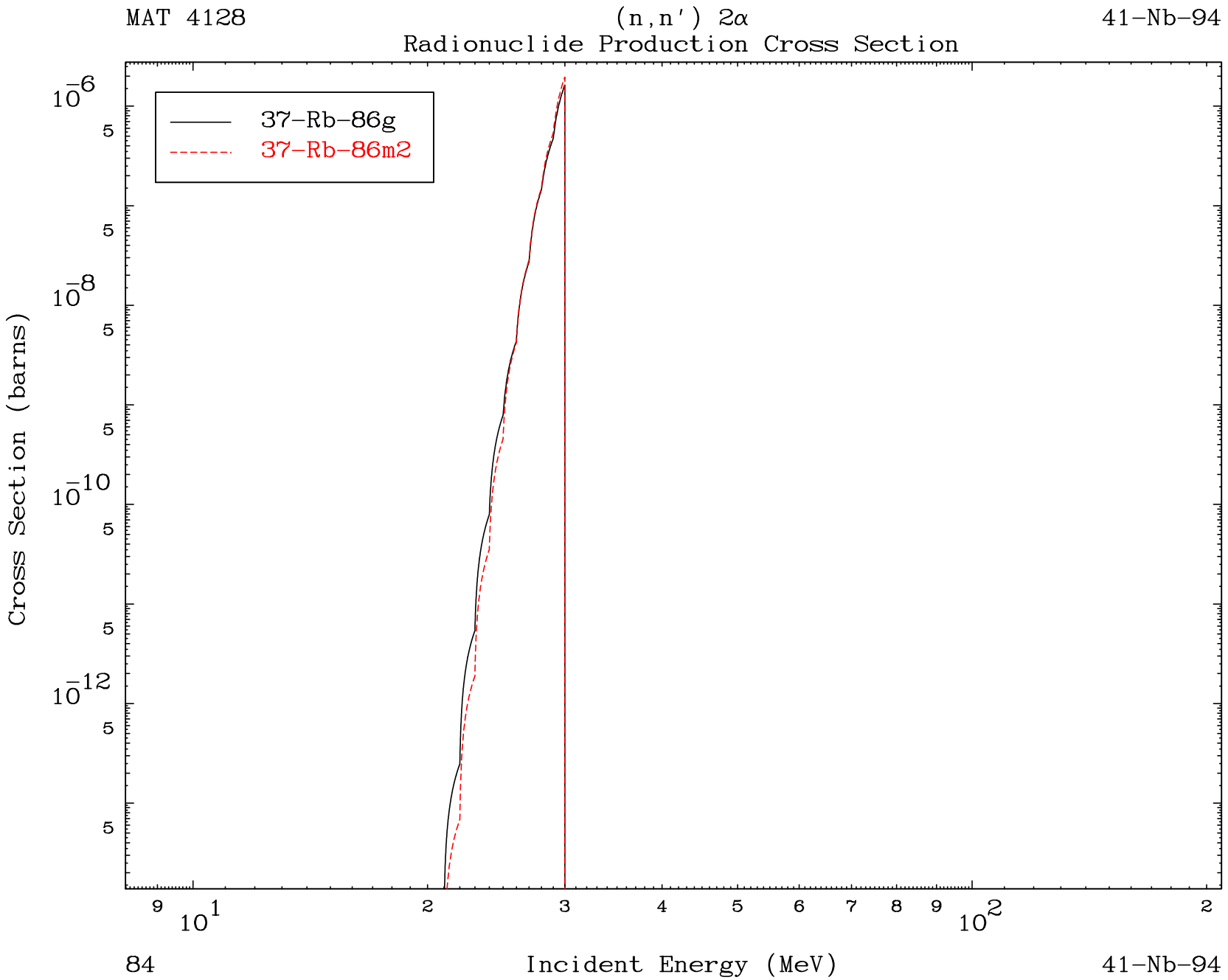

MAT 4128
Inelastic
41-Nb-94
Radionuclide Production Cross Section
41-Nb-94g
41-Nb-94m1
Cross Section (barns)
Incident Energy (MeV)
79
41-Nb-94

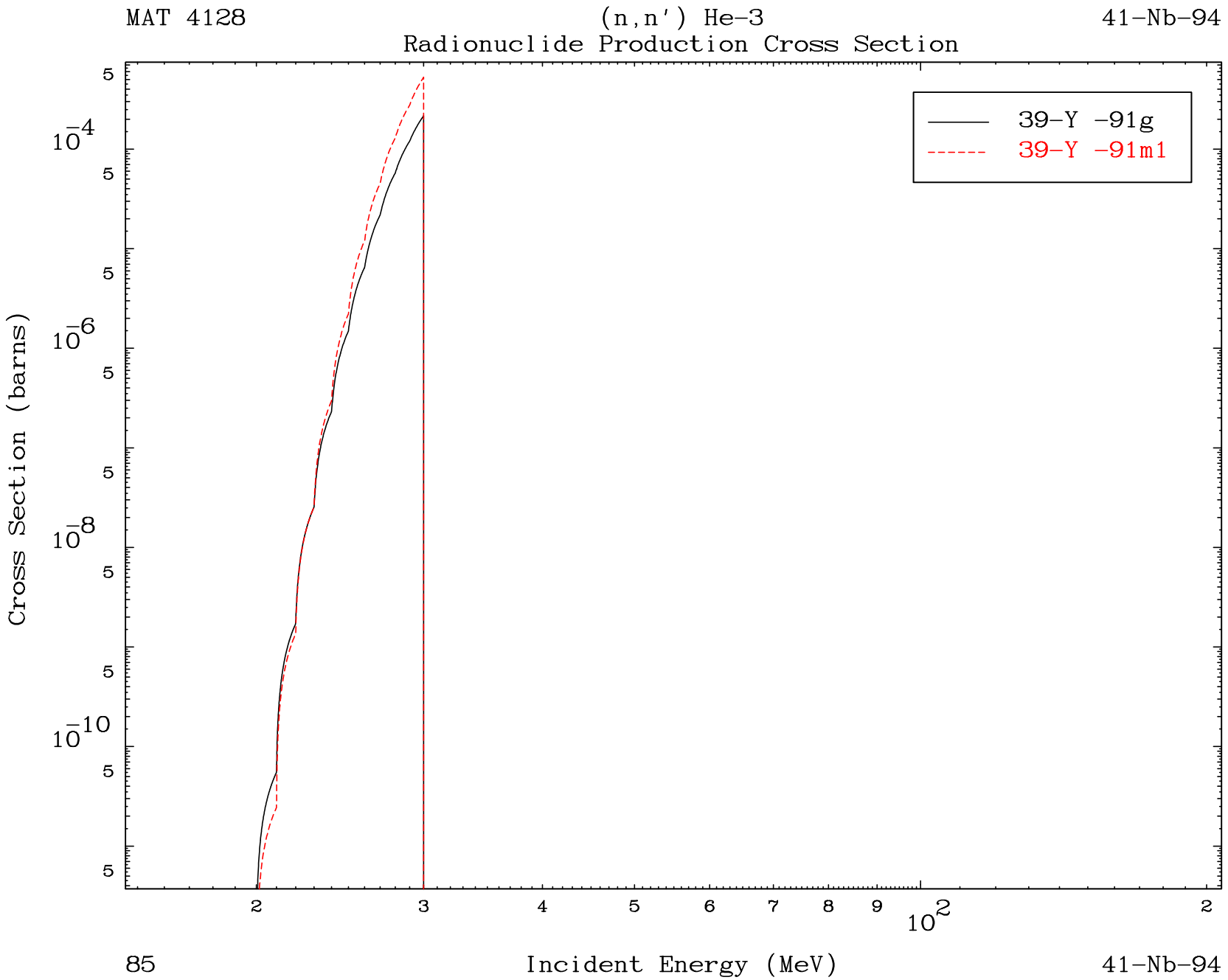

MAT 4128
(n,2n)
41-Nb-94
Radionuclide Production Cross Section
Cross Section (barns)
10^0
10^-1
10^-2
10^-3
10^-4
5
7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
41-Nb-93g
41-Nb-93m1
80
Incident Energy (MeV)
41-Nb-94

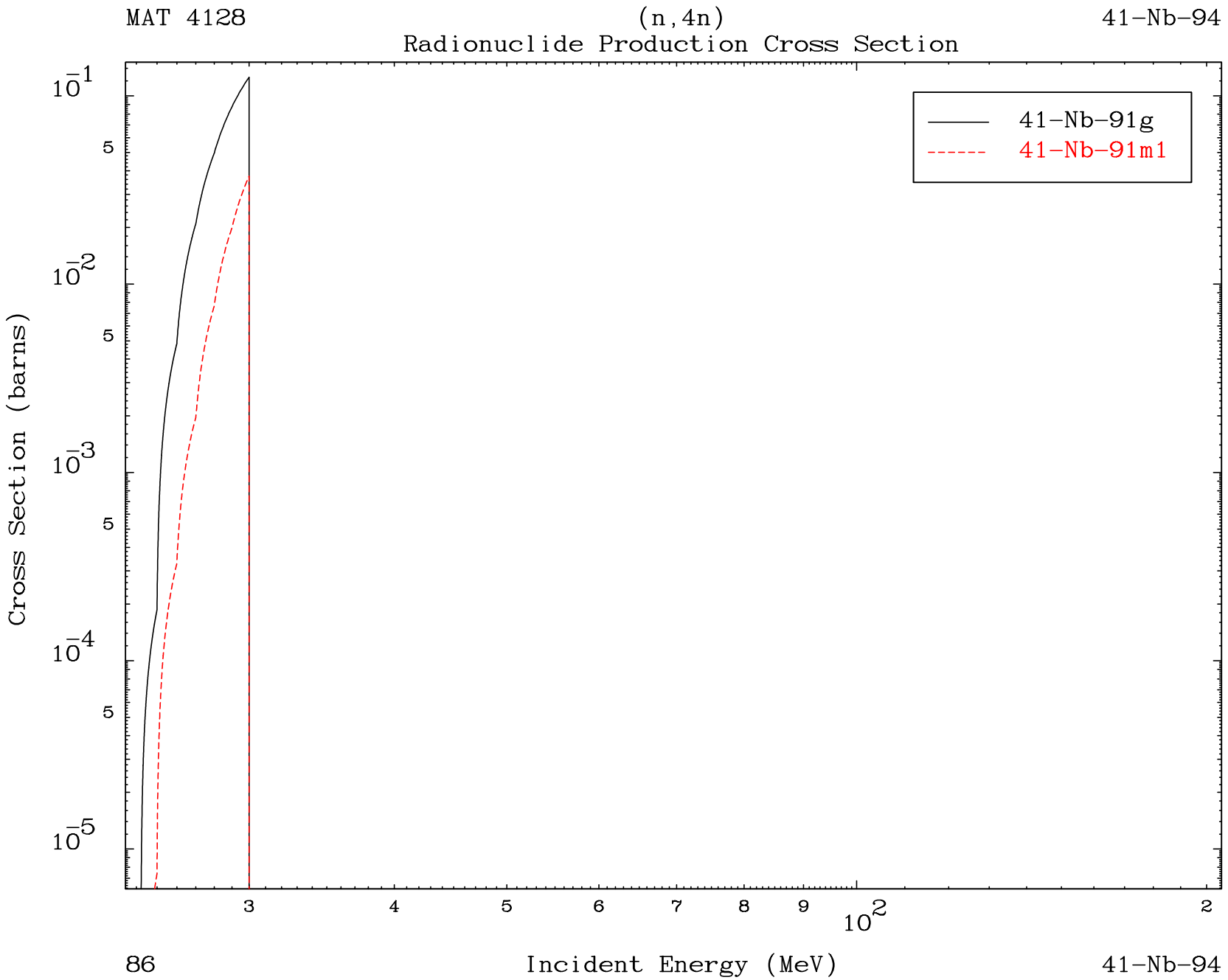

MAT 4128
(n,3n)
41-Nb-94
Radionuclide Production Cross Section
41-Nb-92g
41-Nb-92m1
Cross Section (barns)
Incident Energy (MeV)
81
41-Nb-94

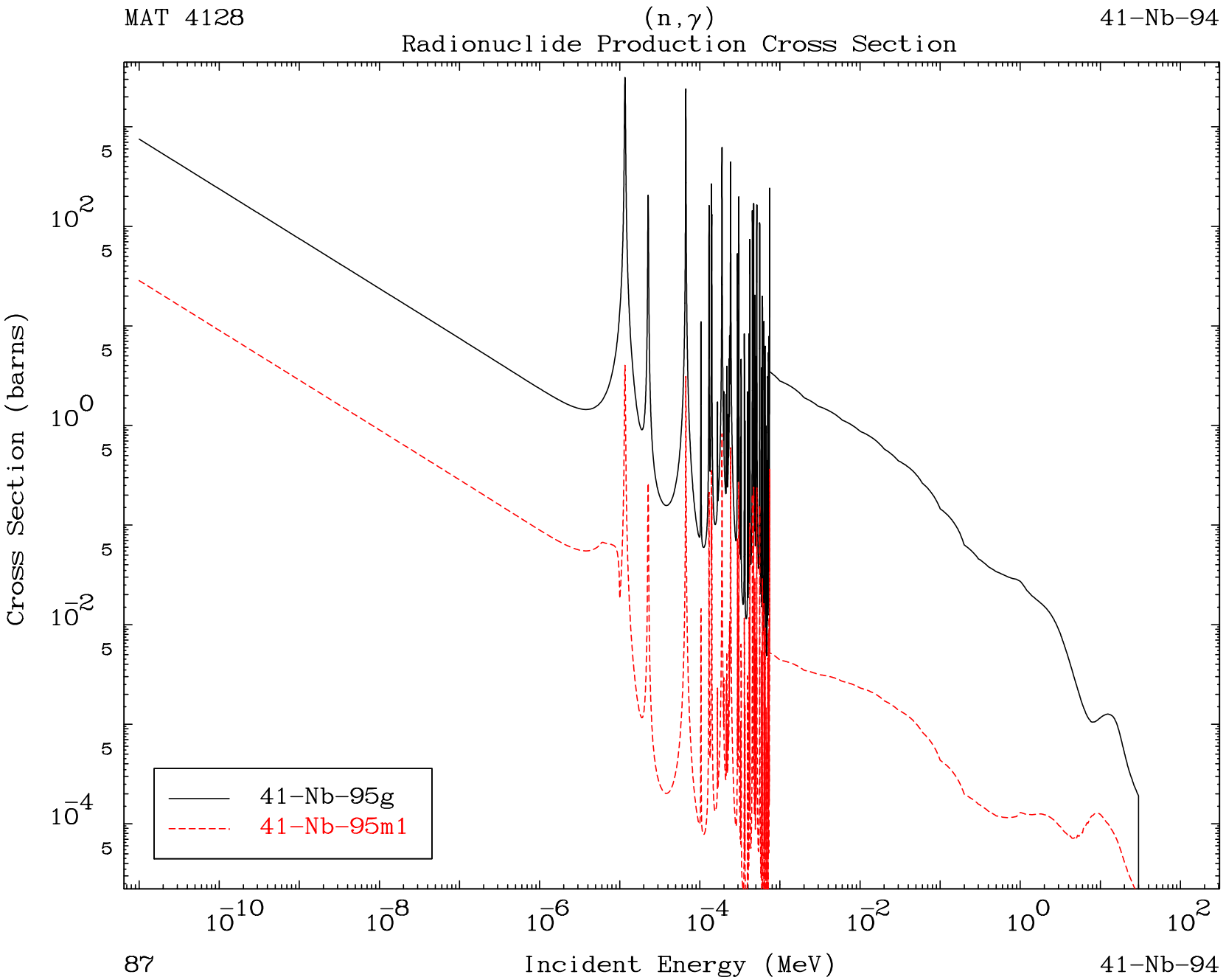

MAT 4128
(n,n') α
41-Nb-94
Radionuclide Production Cross Section
39-Y -90g
39-Y -90m2
Cross Section (barns)
Incident Energy (MeV)
82
41-Nb-94

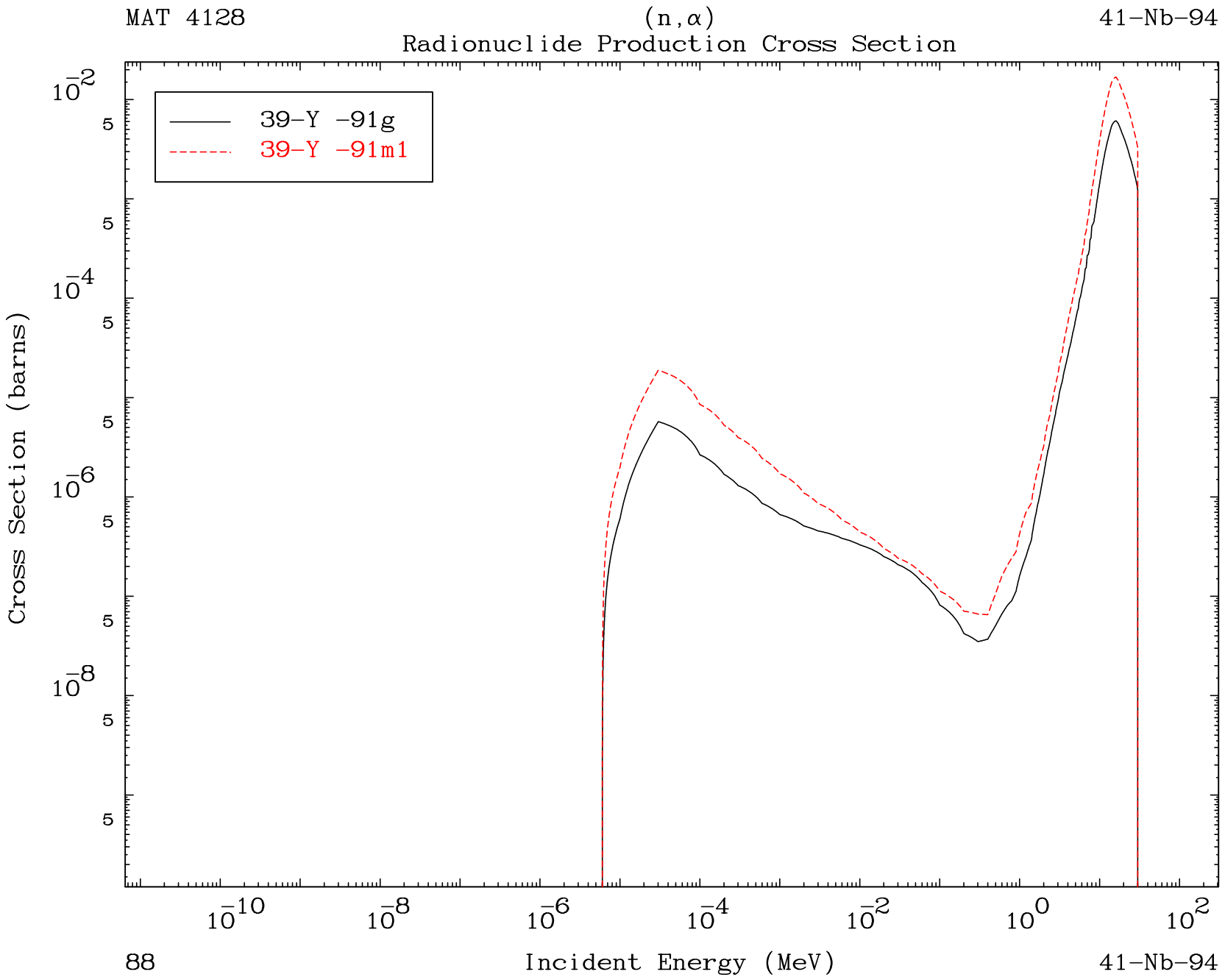

MAT 4128
(n,2n) α
41-Nb-94
Radionuclide Production Cross Section
39-Y -89g
39-Y -89m1
Cross Section (barns)
Incident Energy (MeV)
83
41-Nb-94

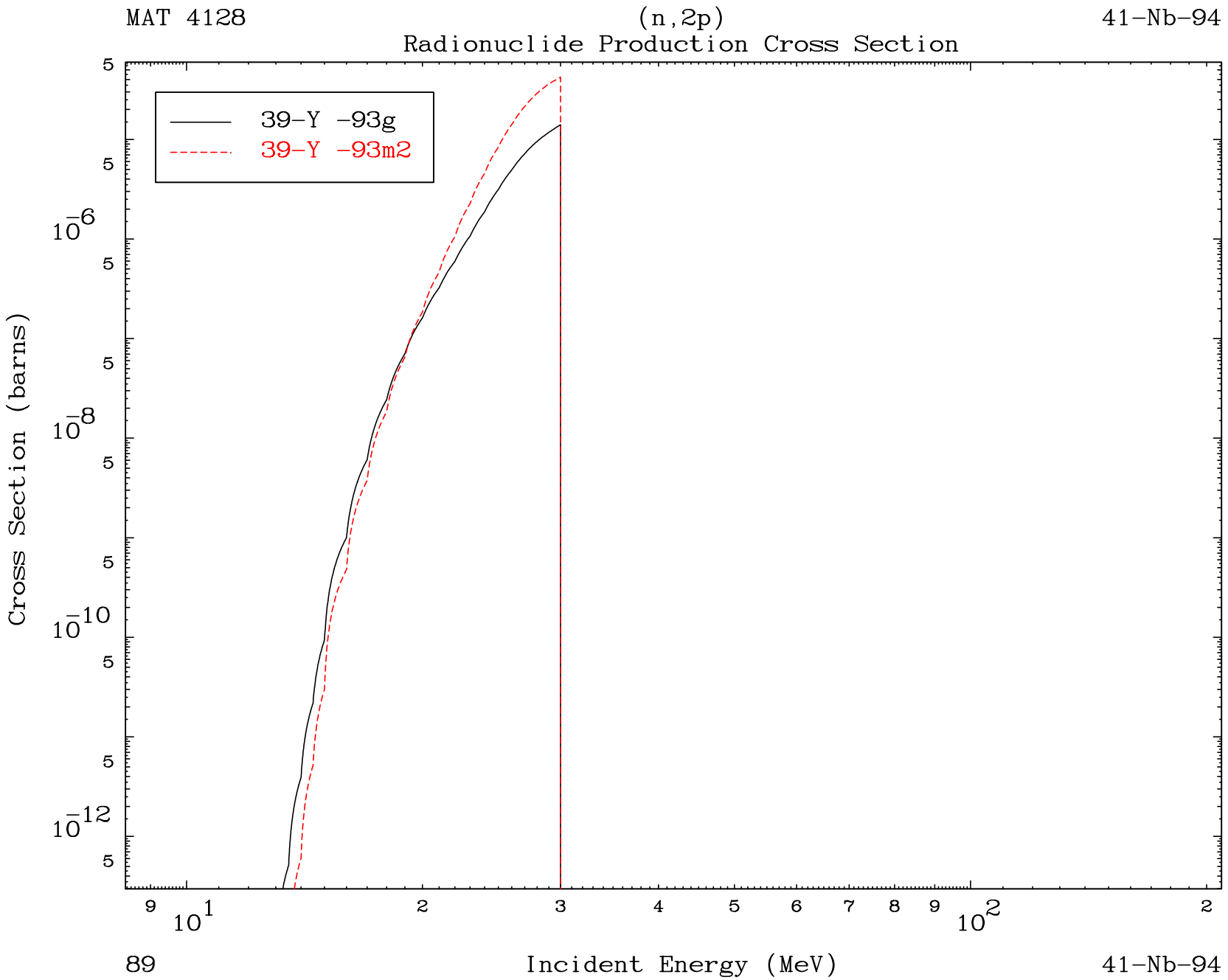

MAT 4128
(n,n') 2α
41-Nb-94
Radionuclide Production Cross Section
37-Rb-86g
37-Rb-86m2
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
9
10^1
2
3
4
5
6
7
8
9
10^2
2
84
Incident Energy (MeV)
41-Nb-94

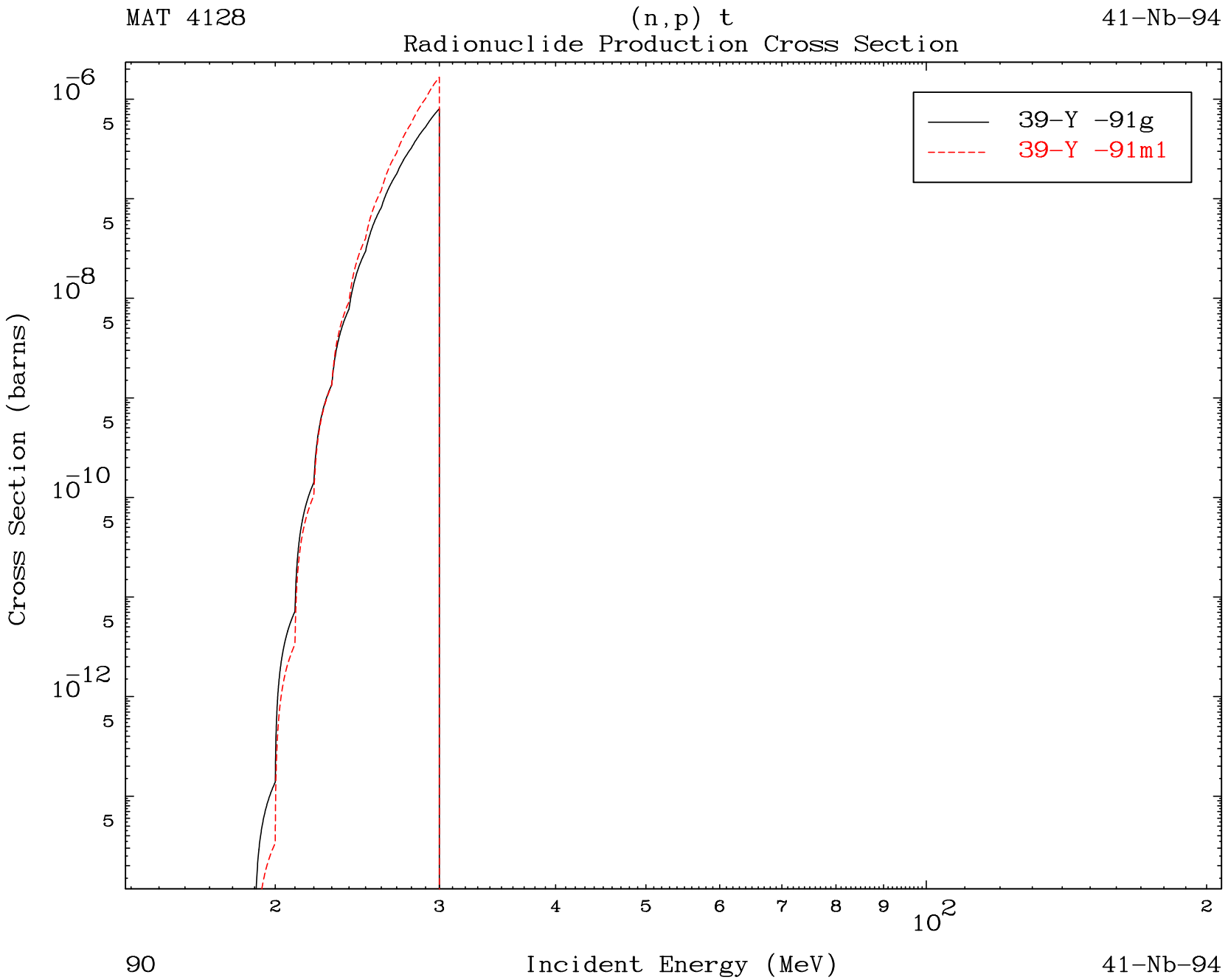

MAT 4128
(n,n') He-3
41-Nb-94
Radionuclide Production Cross Section
39-Y -91g
39-Y -91m1
Cross Section (barns)
Incident Energy (MeV)
85
41-Nb-94


MAT 4128
(n,4n)
41-Nb-94
Radionuclide Production Cross Section
41-Nb-91g
41-Nb-91m1
Cross Section (barns)
10^-1
5
10^-2
5
10^-3
5
10^-4
5
10^-5
3
4
5
6
7
8
9
10^2
2
86
Incident Energy (MeV)
41-Nb-94


MAT 4128
(n,γ)
41-Nb-94
Radionuclide Production Cross Section
Cross Section (barns)
10^2
10^0
10^-2
10^-4
5
41-Nb-95g
41-Nb-95m1
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
87
Incident Energy (MeV)
41-Nb-94


MAT 4128
(n,α)
41-Nb-94
Radionuclide Production Cross Section
39-Y -91g
39-Y -91m1
Cross Section (barns)
Incident Energy (MeV)
88
41-Nb-94


MAT 4128
(n,2p)
41-Nb-94
Radionuclide Production Cross Section
39-Y -93g
39-Y -93m2
Cross Section (barns)
Incident Energy (MeV)
89
41-Nb-94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41-Nb-94
Radionuclide Production Cross Section
39-Y -91g
39-Y -91m1
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
2
3
4
5
6
7
8
9
10^2
2
90
Incident Energy (MeV)
41-Nb-94