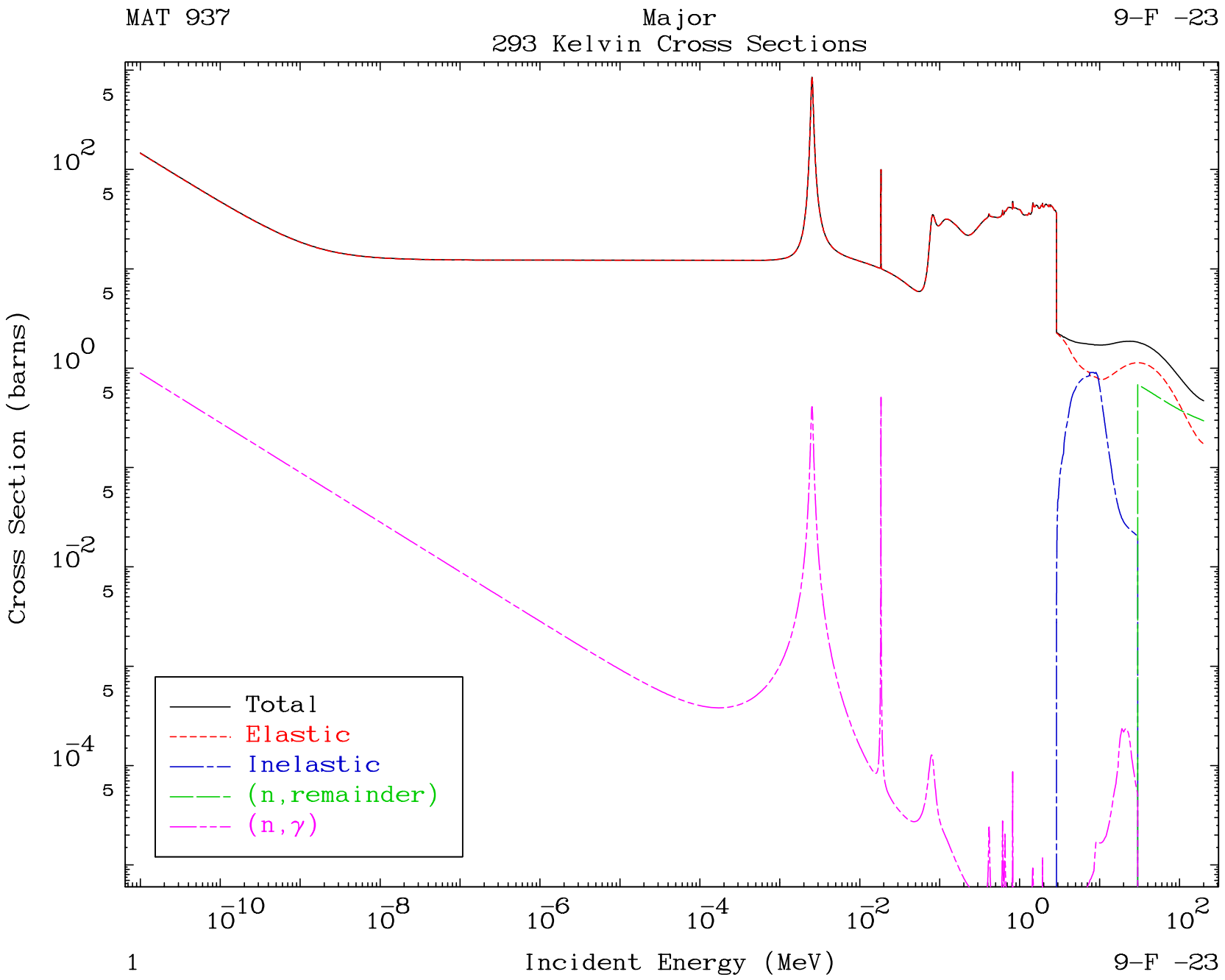
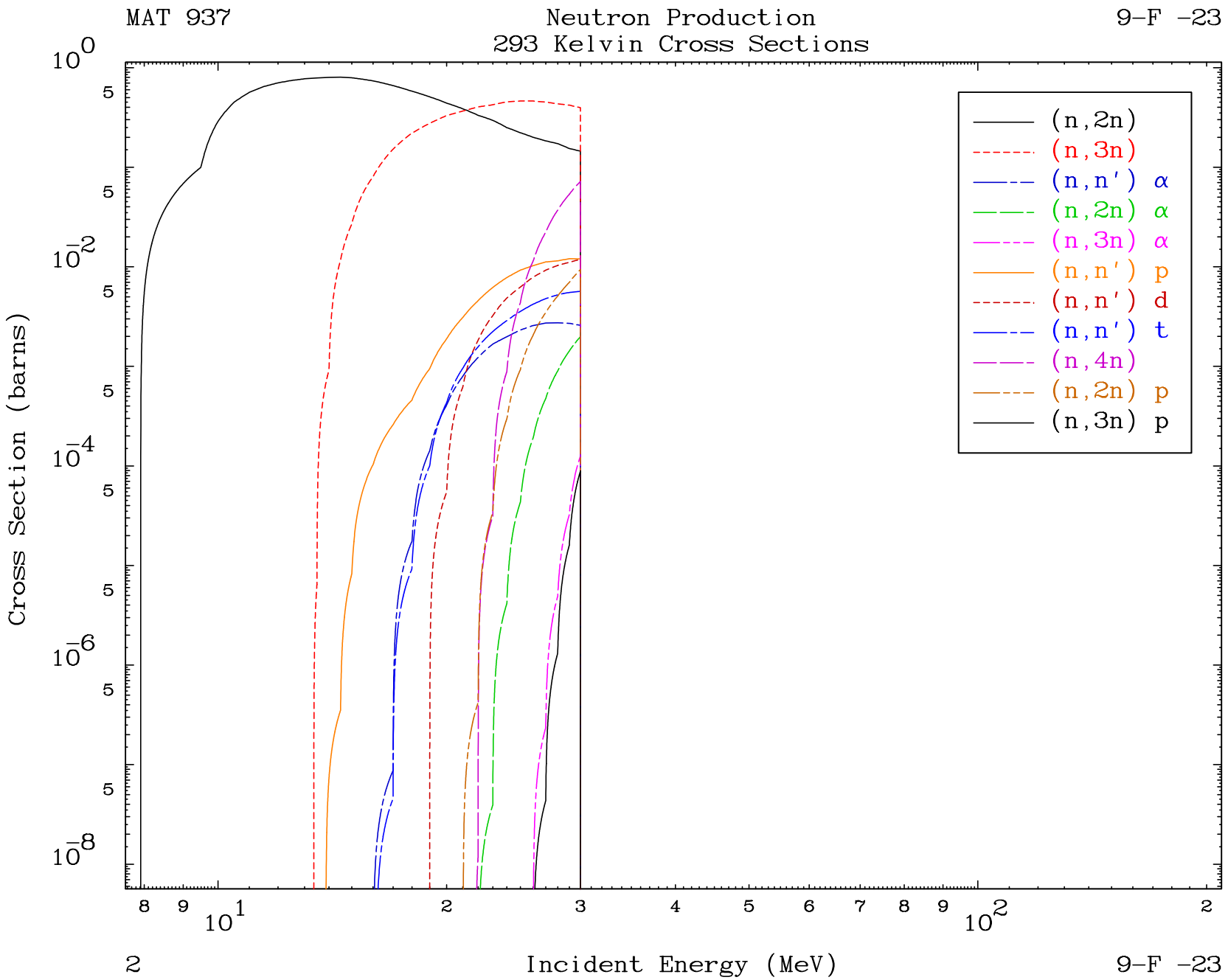
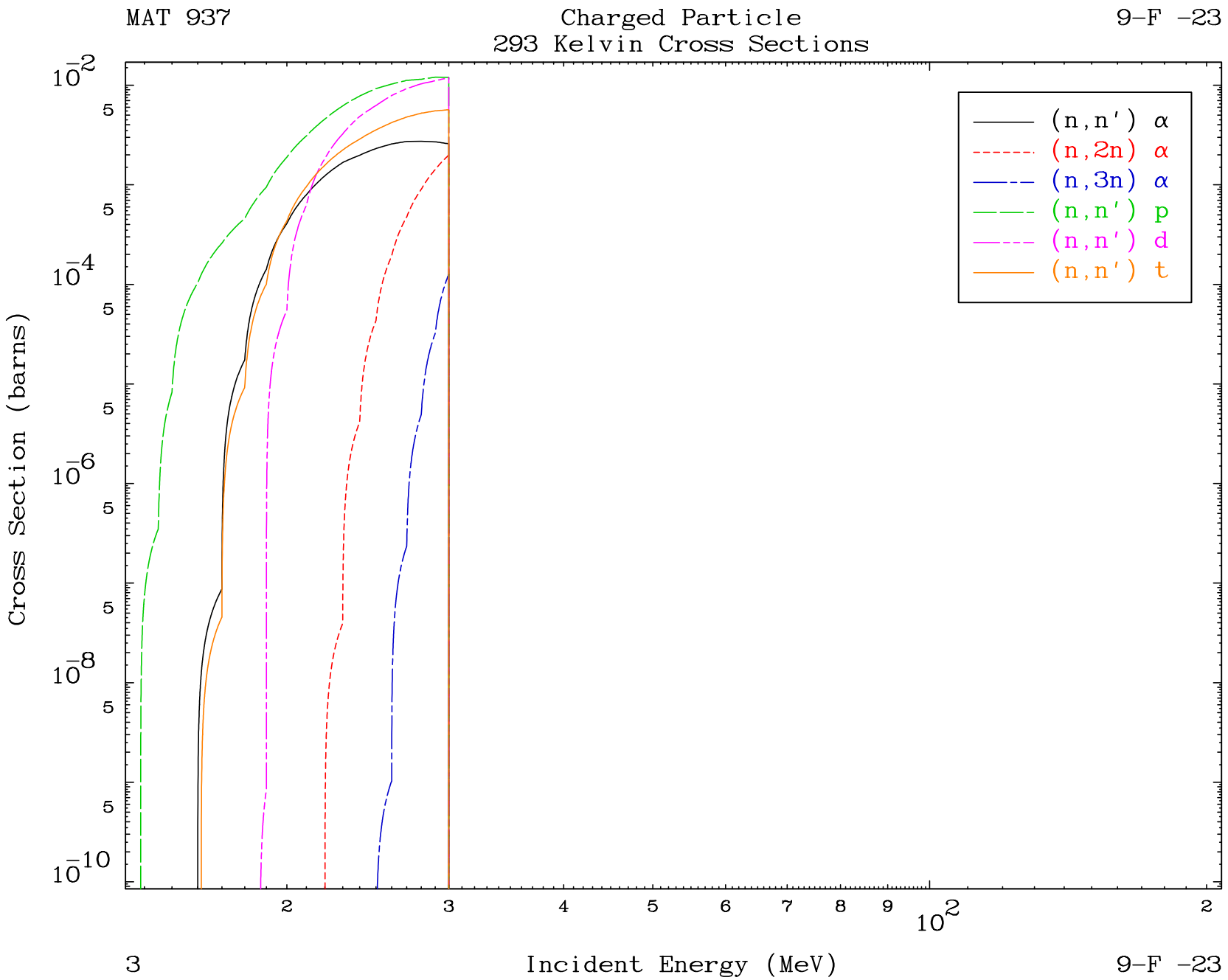
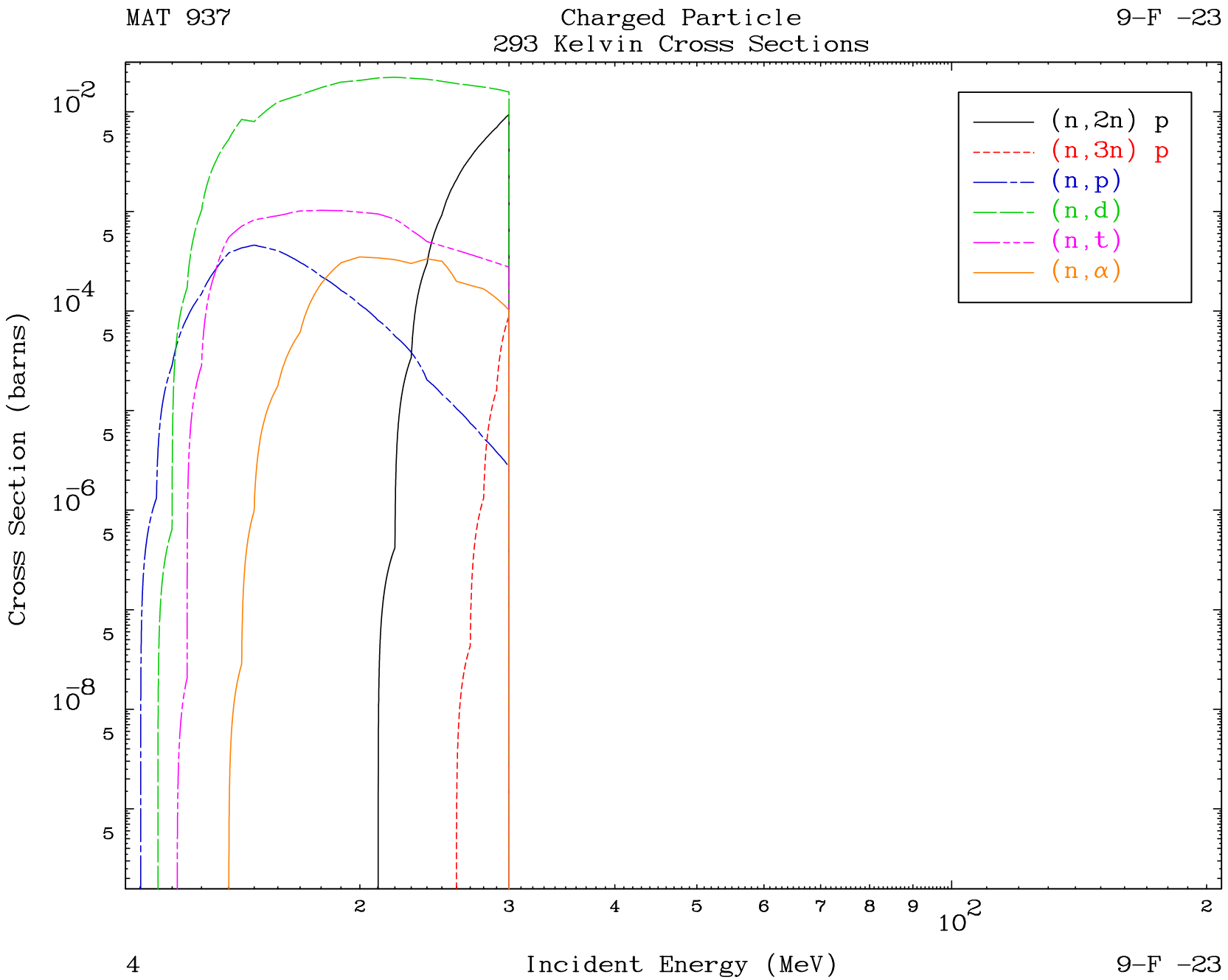
Program EVALPLOT
(Version 2018-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

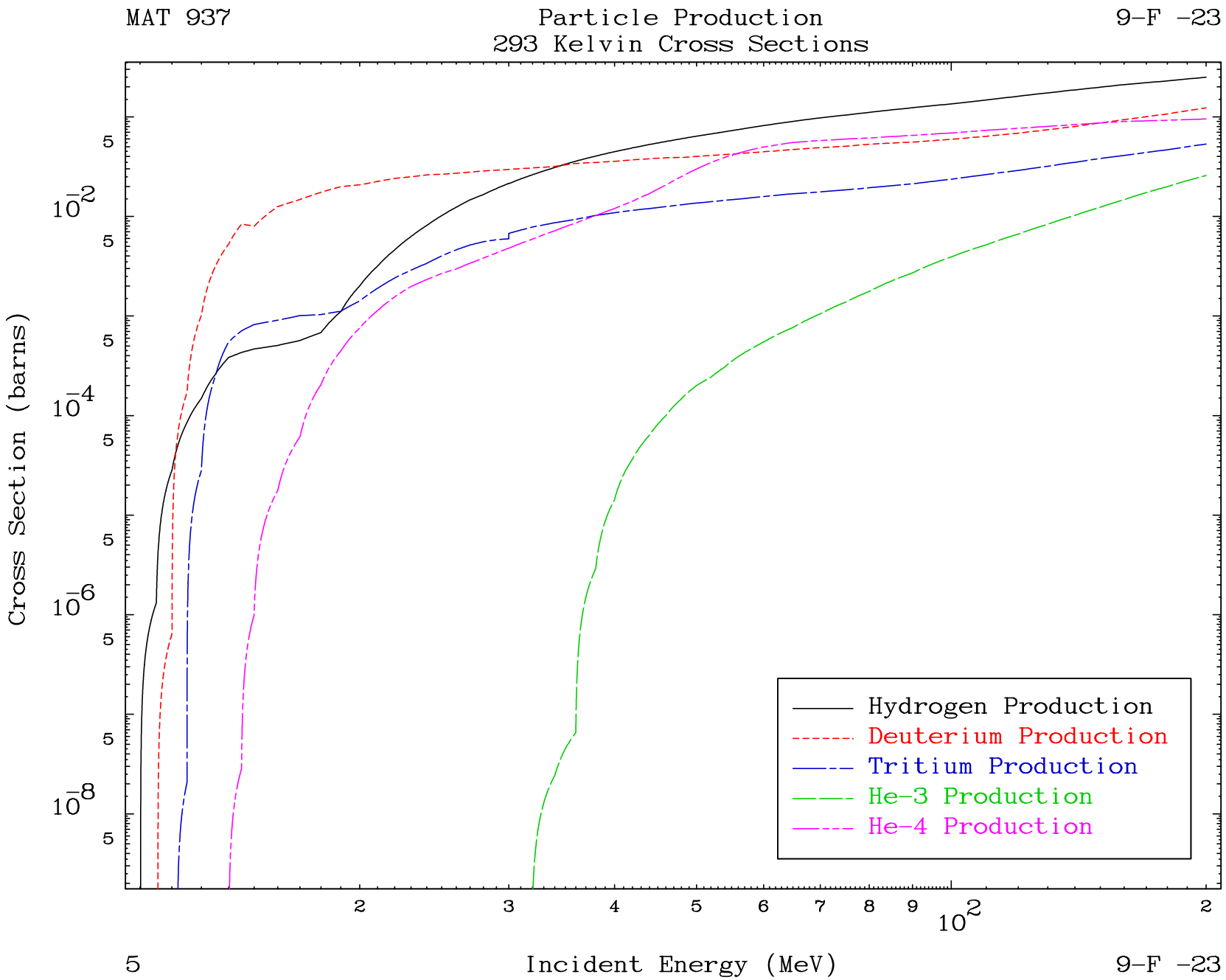
Press Mouse Button to Start

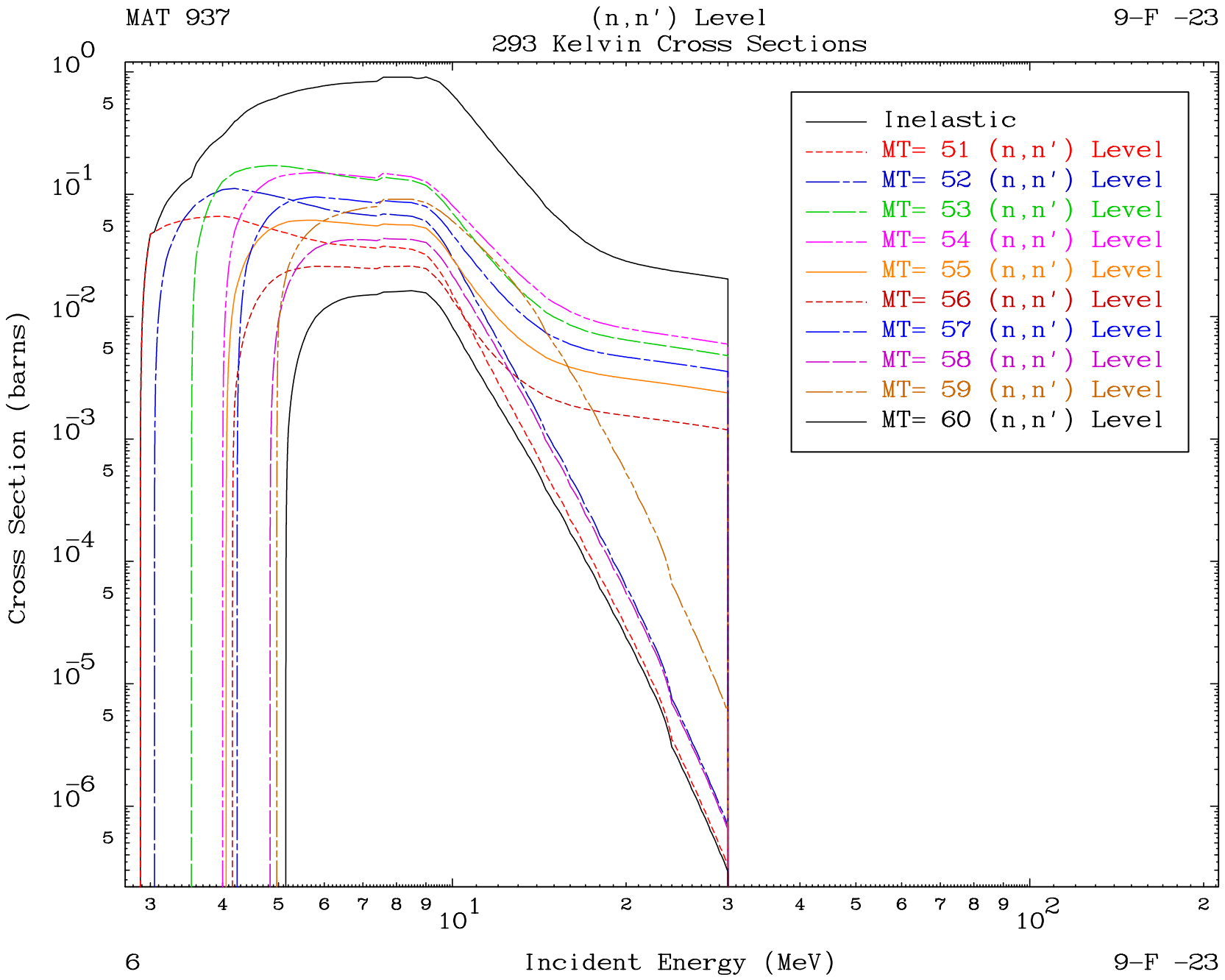

MAT 937
Major
9-F -23
293 Kelvin Cross Sections
Cross Section (barns)
Incident Energy (MeV)
Total
Elastic
Inelastic
(n,remainder)
(n,γ)
1
9-F -23

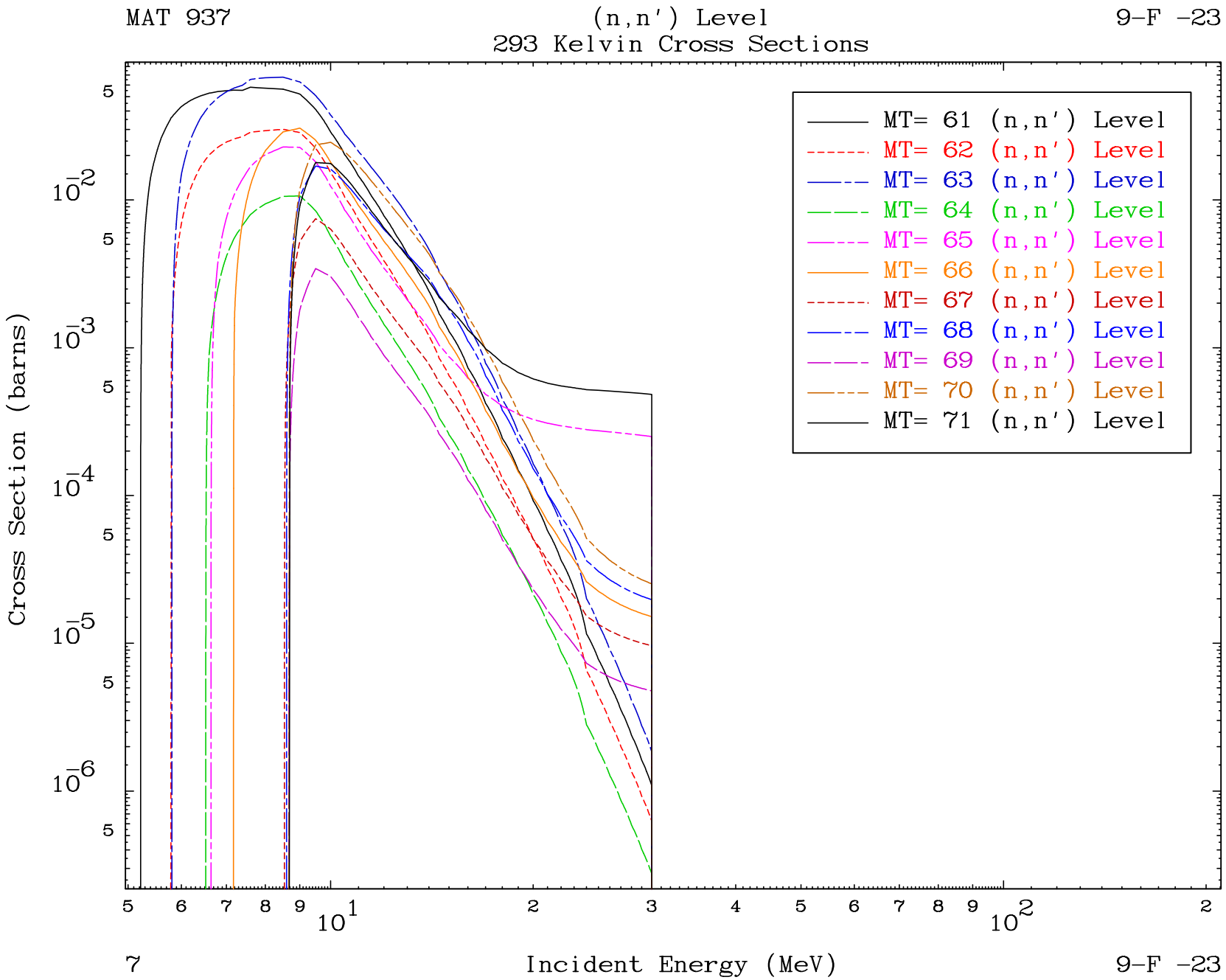

MAT 937
Neutron Production
293 Kelvin Cross Sections
9-F -23
Cross Section (barns)
Incident Energy (MeV)
9-F -23
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') d
(n,n') t
(n,4n)
(n,2n) p
(n,3n) p

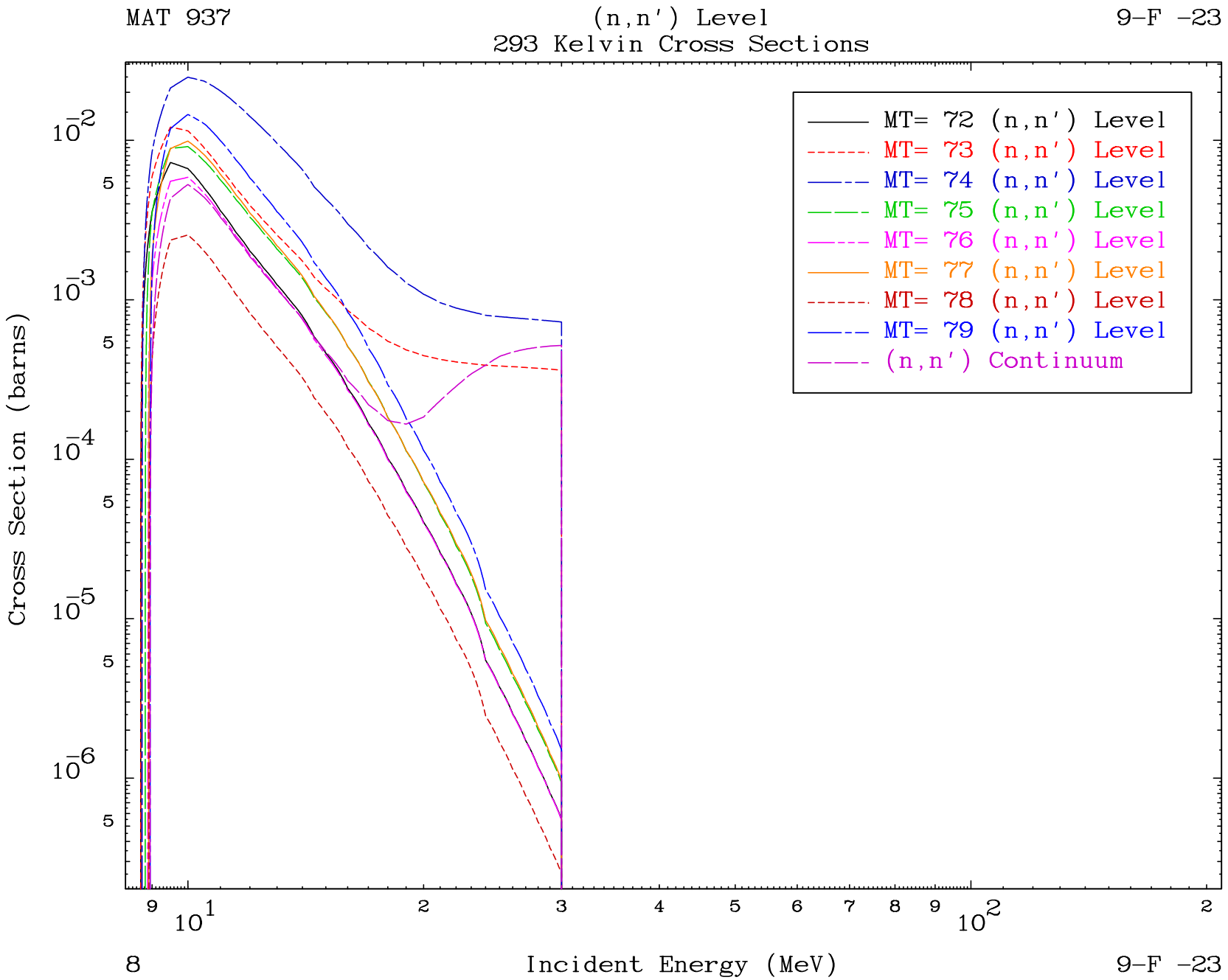

MAT 937
Charged Particle
293 Kelvin Cross Sections
9-F -23
Cross Section (barns)
Incident Energy (MeV)
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') d
(n,n') t
3
9-F -23

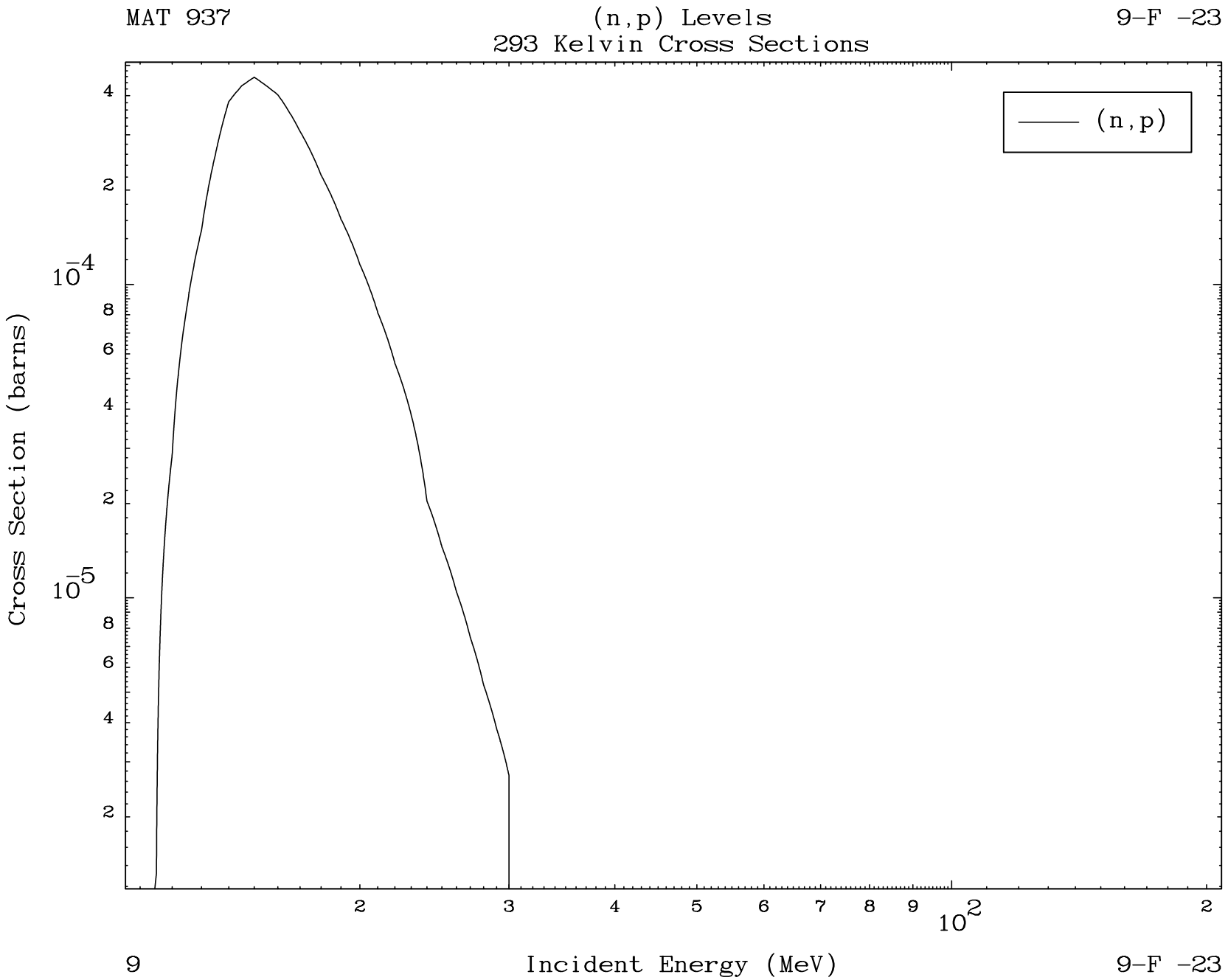

MAT 937
Charged Particle
293 Kelvin Cross Sections
9-F -23
(n,2n) p
(n,3n) p
(n,p)
(n,d)
(n,t)
(n,α)
Cross Section (barns)
Incident Energy (MeV)
4
9-F -23

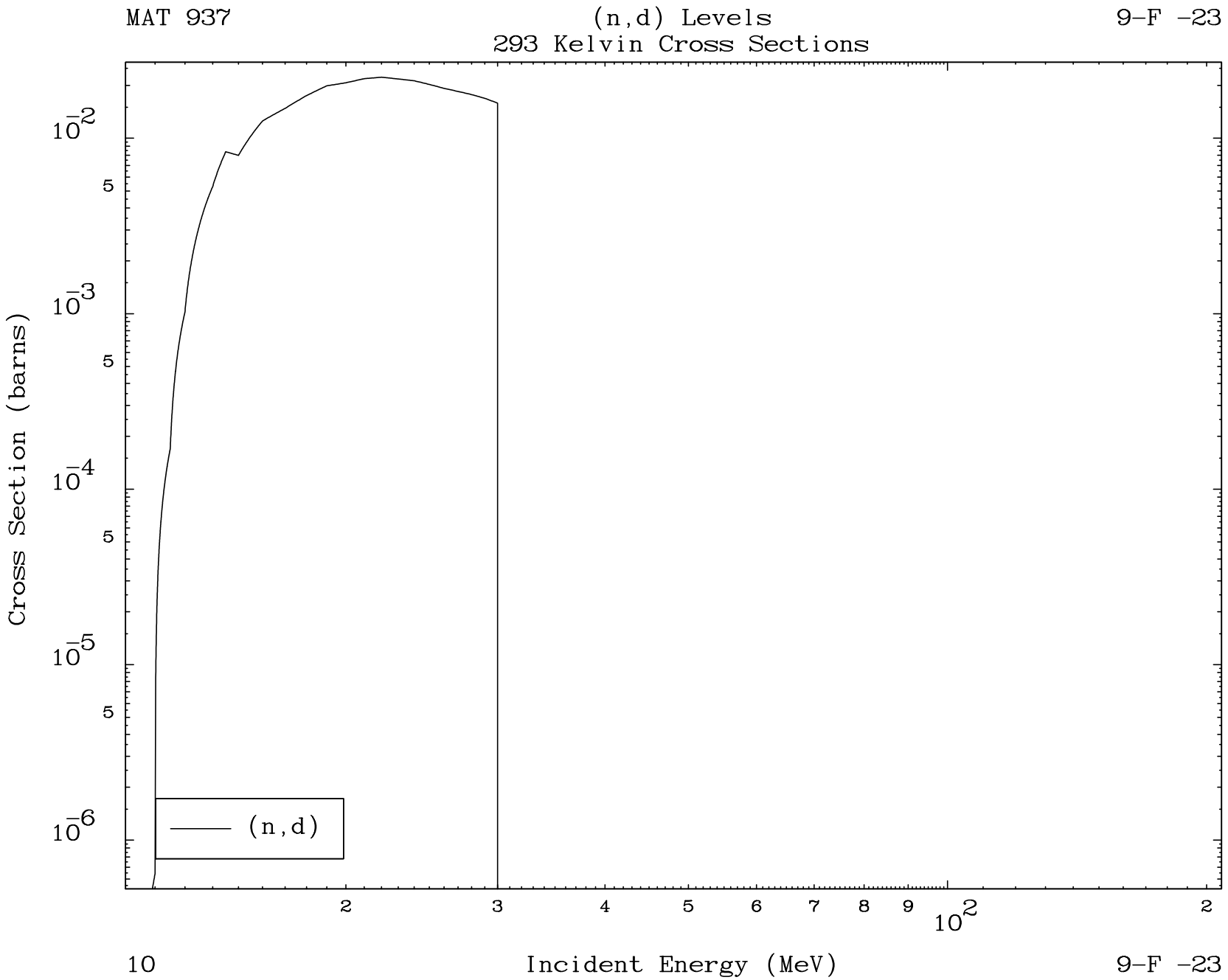

MAT 937
Particle Production
293 Kelvin Cross Sections
9-F -23
Cross Section (barns)
10-2
10-4
10-6
10-8
5
2
3
4
5
6
7
8
9
10 2
2
Incident Energy (MeV)
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production

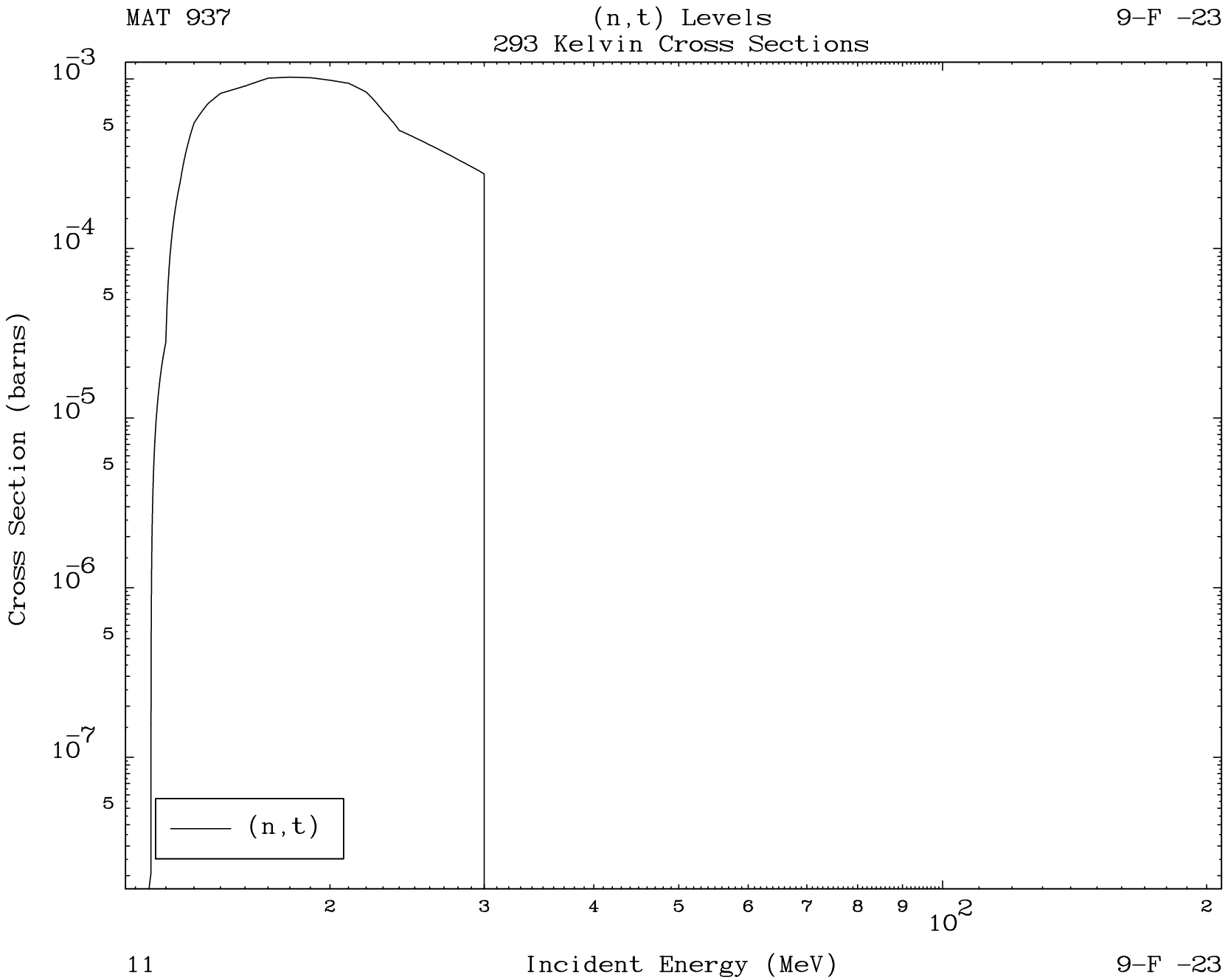

MAT 937
(n,n') Level
293 Kelvin Cross Sections
9-F -23
Cross Section (barns)
Incident Energy (MeV)
Inelastic
MT= 51 (n,n') Level
MT= 52 (n,n') Level
MT= 53 (n,n') Level
MT= 54 (n,n') Level
MT= 55 (n,n') Level
MT= 56 (n,n') Level
MT= 57 (n,n') Level
MT= 58 (n,n') Level
MT= 59 (n,n') Level
MT= 60 (n,n') Level
6
9-F -23


MAT 937
(n,n') Level
293 Kelvin Cross Sections
9-F -23
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
9-F -23

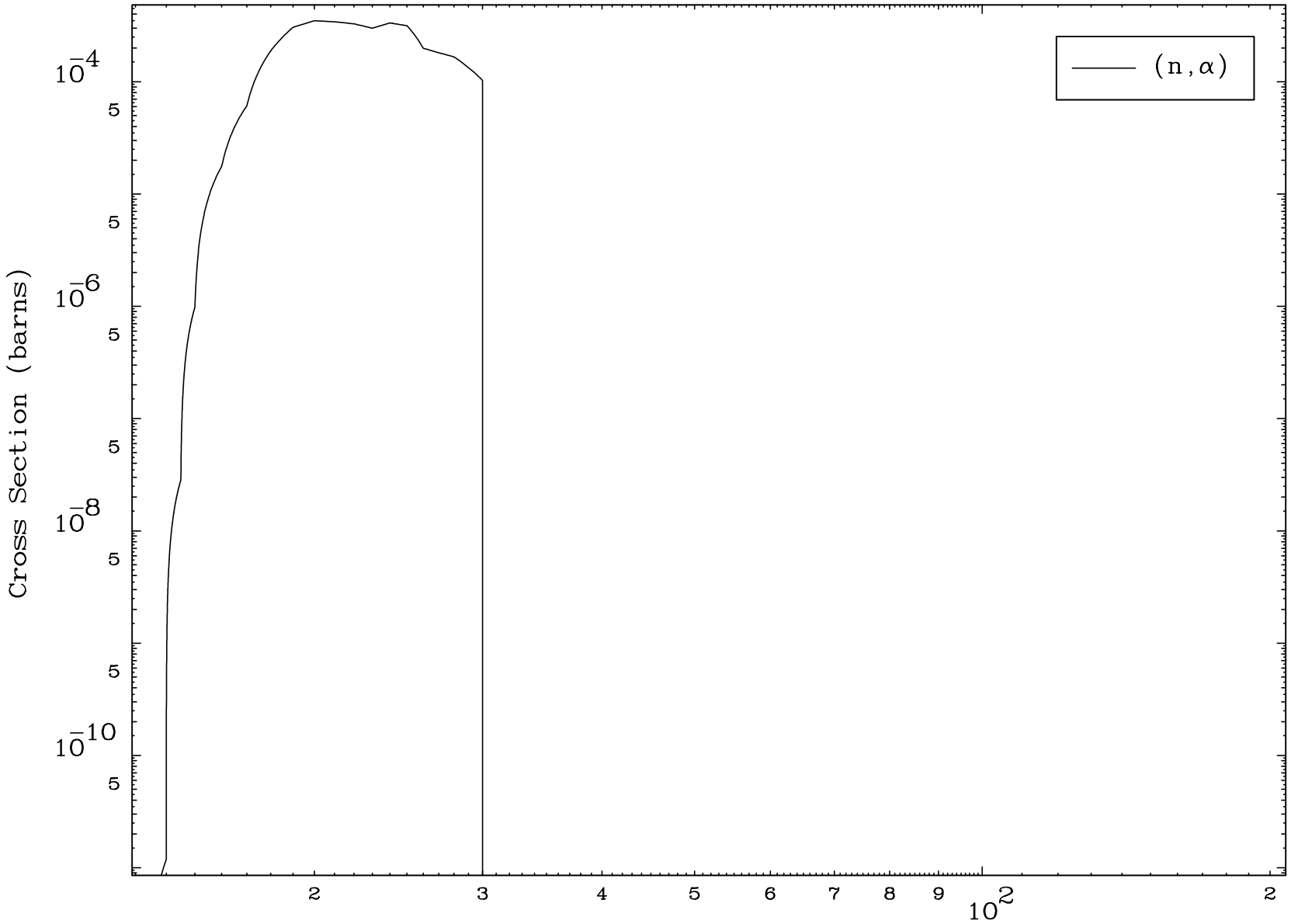

MAT 937
(n,n') Level
293 Kelvin Cross Sections
9-F -23
MT= 72 (n,n') Level
MT= 73 (n,n') Level
MT= 74 (n,n') Level
MT= 75 (n,n') Level
MT= 76 (n,n') Level
MT= 77 (n,n') Level
MT= 78 (n,n') Level
MT= 79 (n,n') Level
(n,n') Continuum
Cross Section (barns)
Incident Energy (MeV)
8
9-F -23

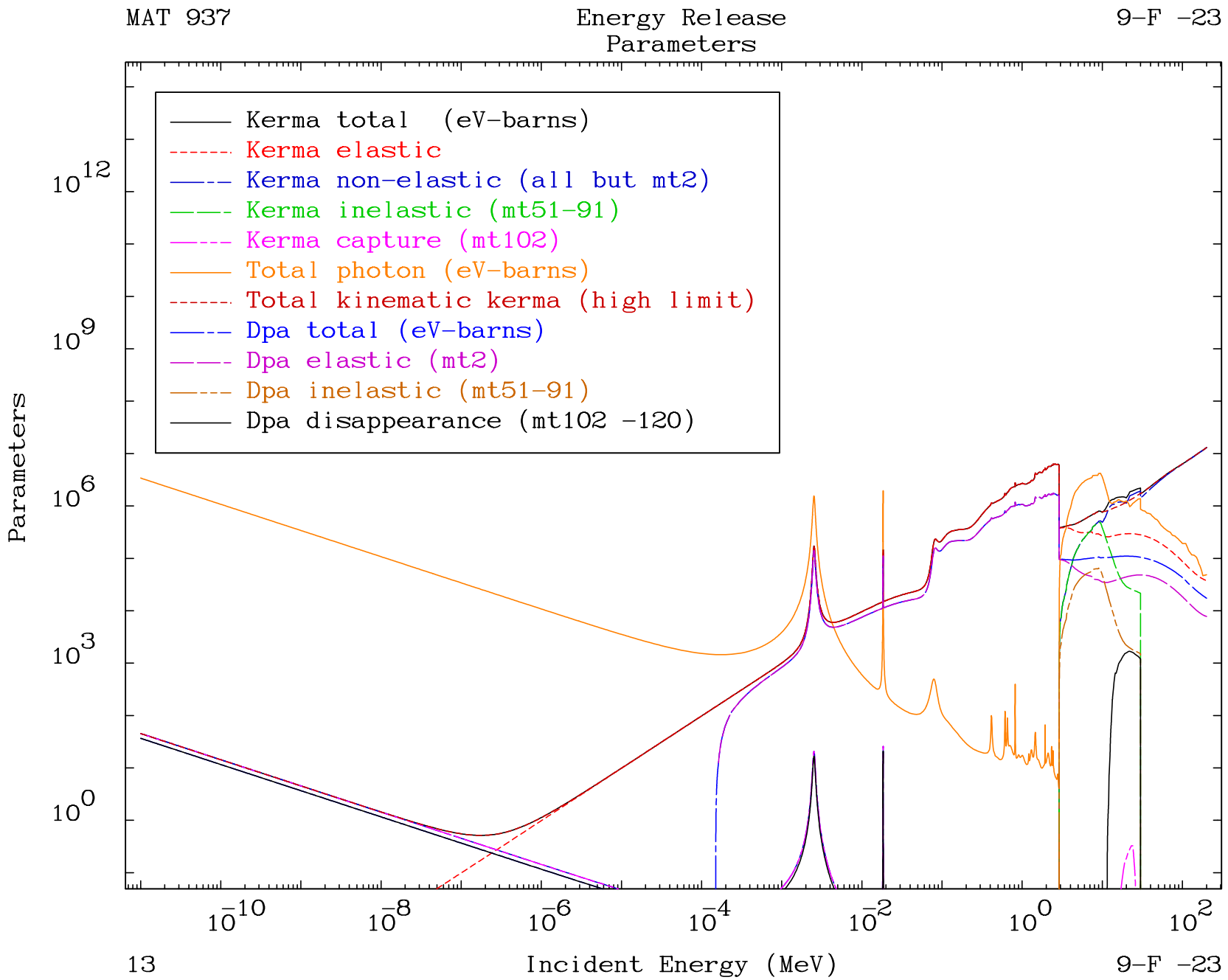

MAT 937
(n,p) Levels
293 Kelvin Cross Sections
9-F -23
(n,p)
Cross Section (barns)
Incident Energy (MeV)
9
9-F -23

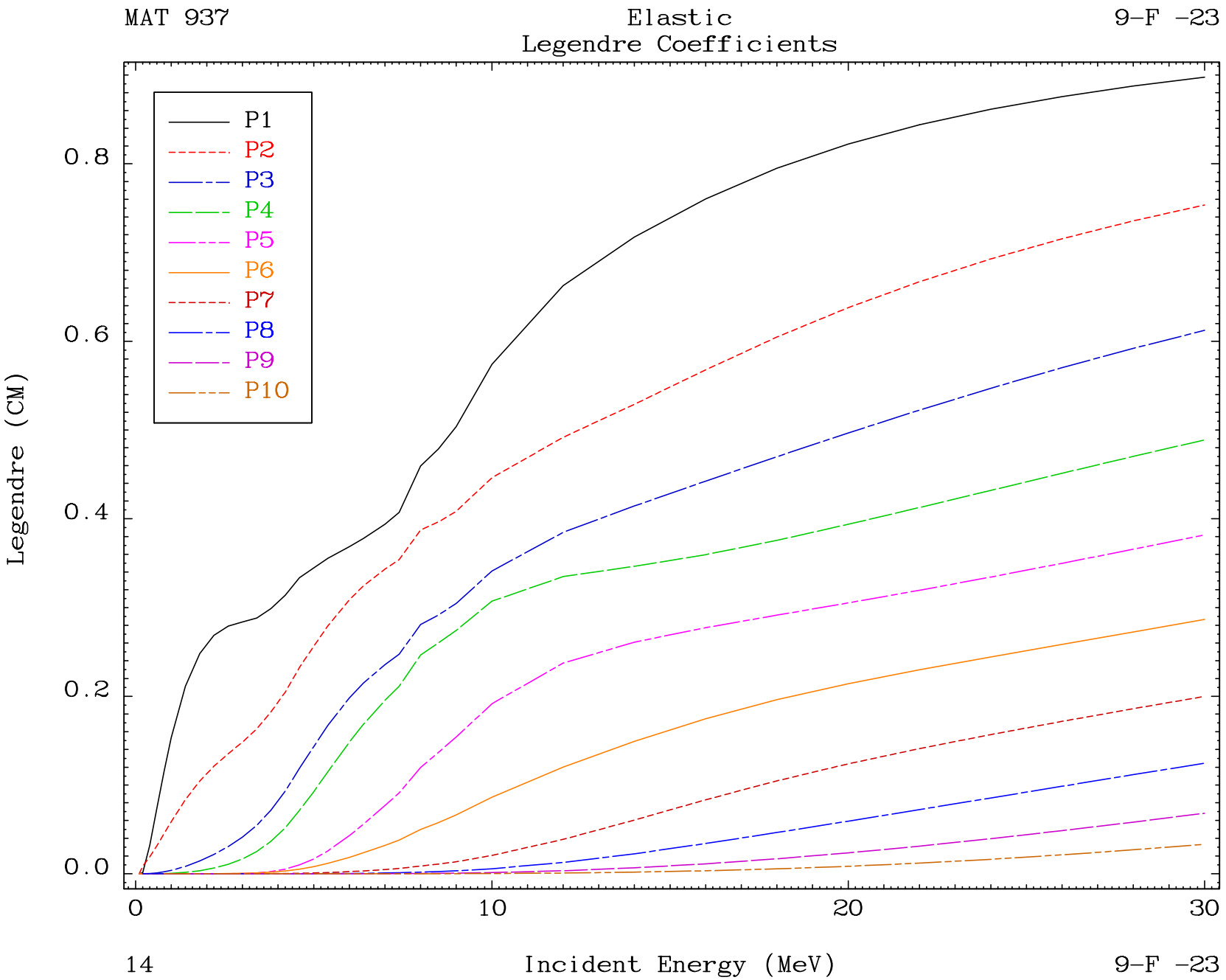

MAT 937
(n,d) Levels
9-F -23
293 Kelvin Cross Sections
Cross Section (barns)
10^-2
5
10^-3
5
10^-4
5
10^-5
5
10^-6
(n,d)
2
3
4
5
6
7
8
9
10^2
2
10
Incident Energy (MeV)
9-F -23

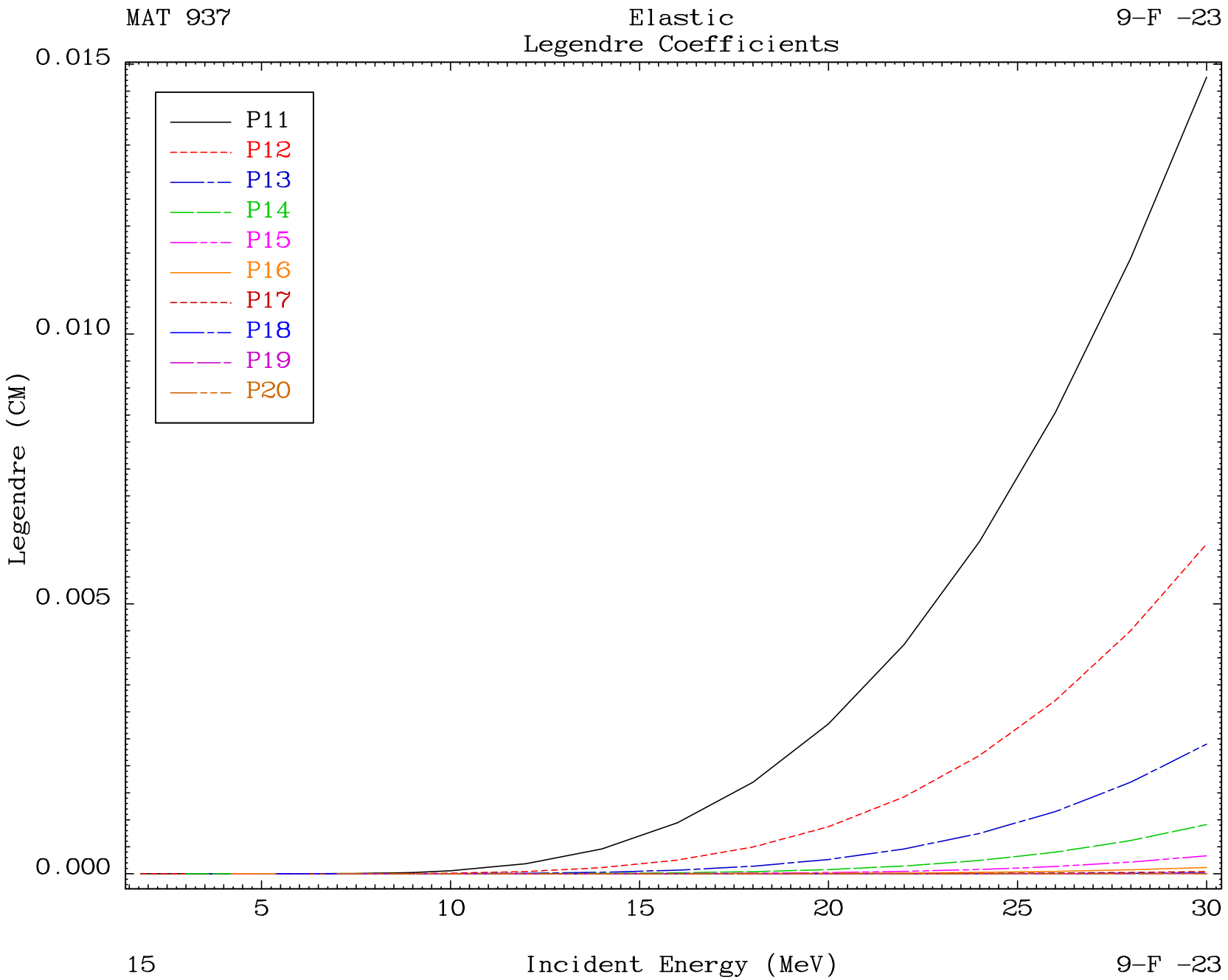

MAT 937
(n,t) Levels
9-F -23
293 Kelvin Cross Sections
Cross Section (barns)
10-3
5
10-4
5
10-5
5
10-6
5
10-7
5
(n,t)
2
3
4
5
6
7
8
9
10 2
2
11
Incident Energy (MeV)
9-F -23

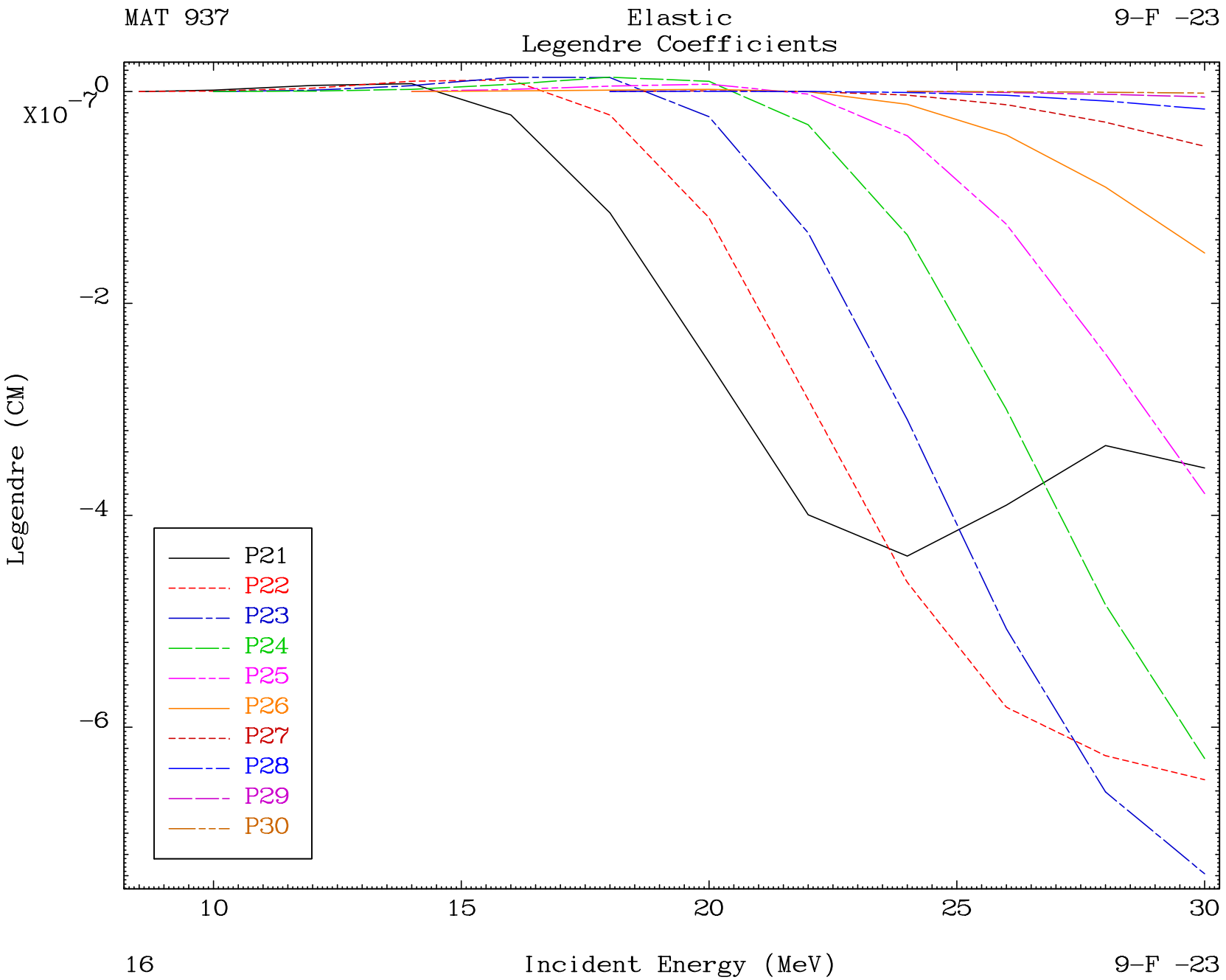
293 Kelvin Cross Sections

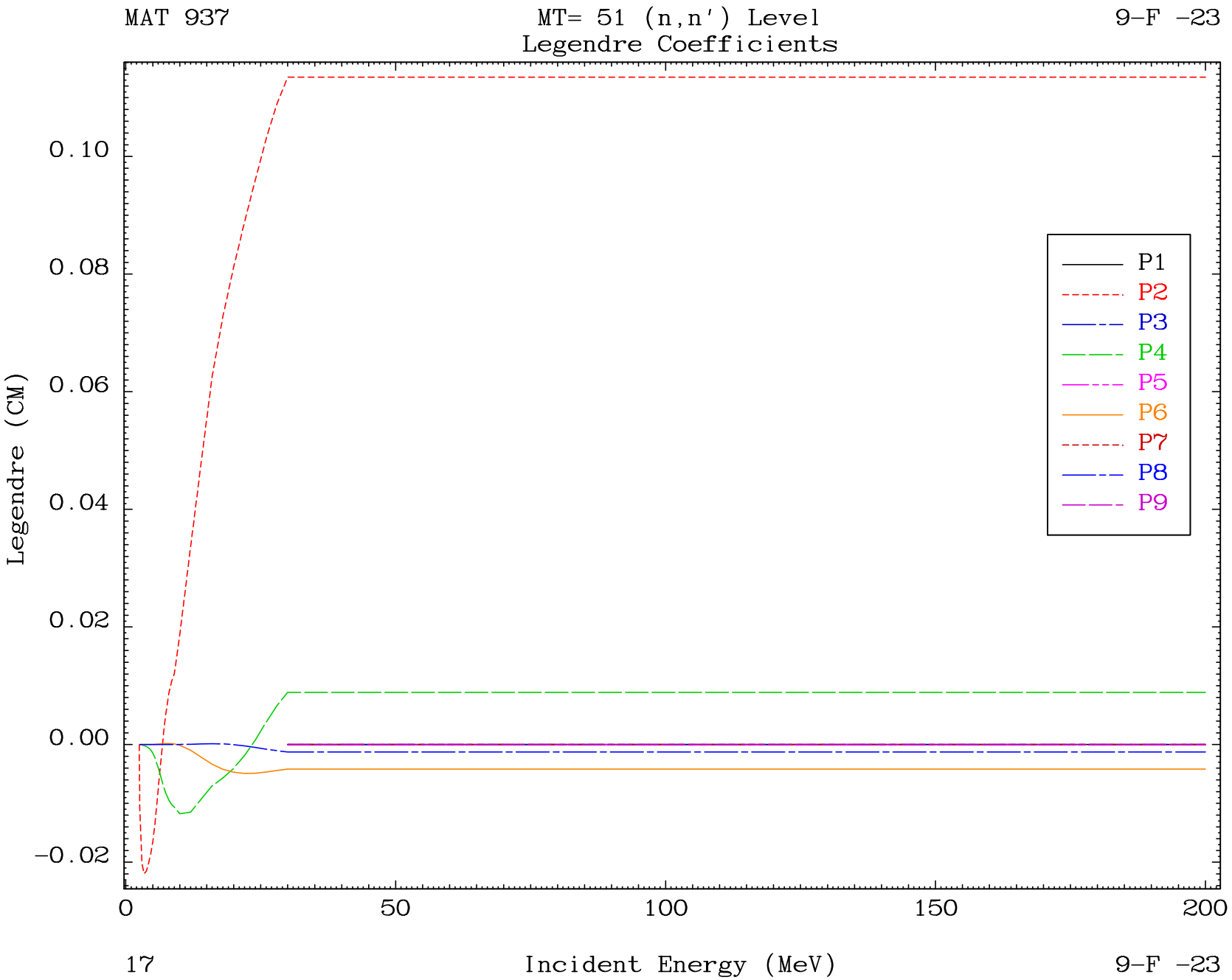


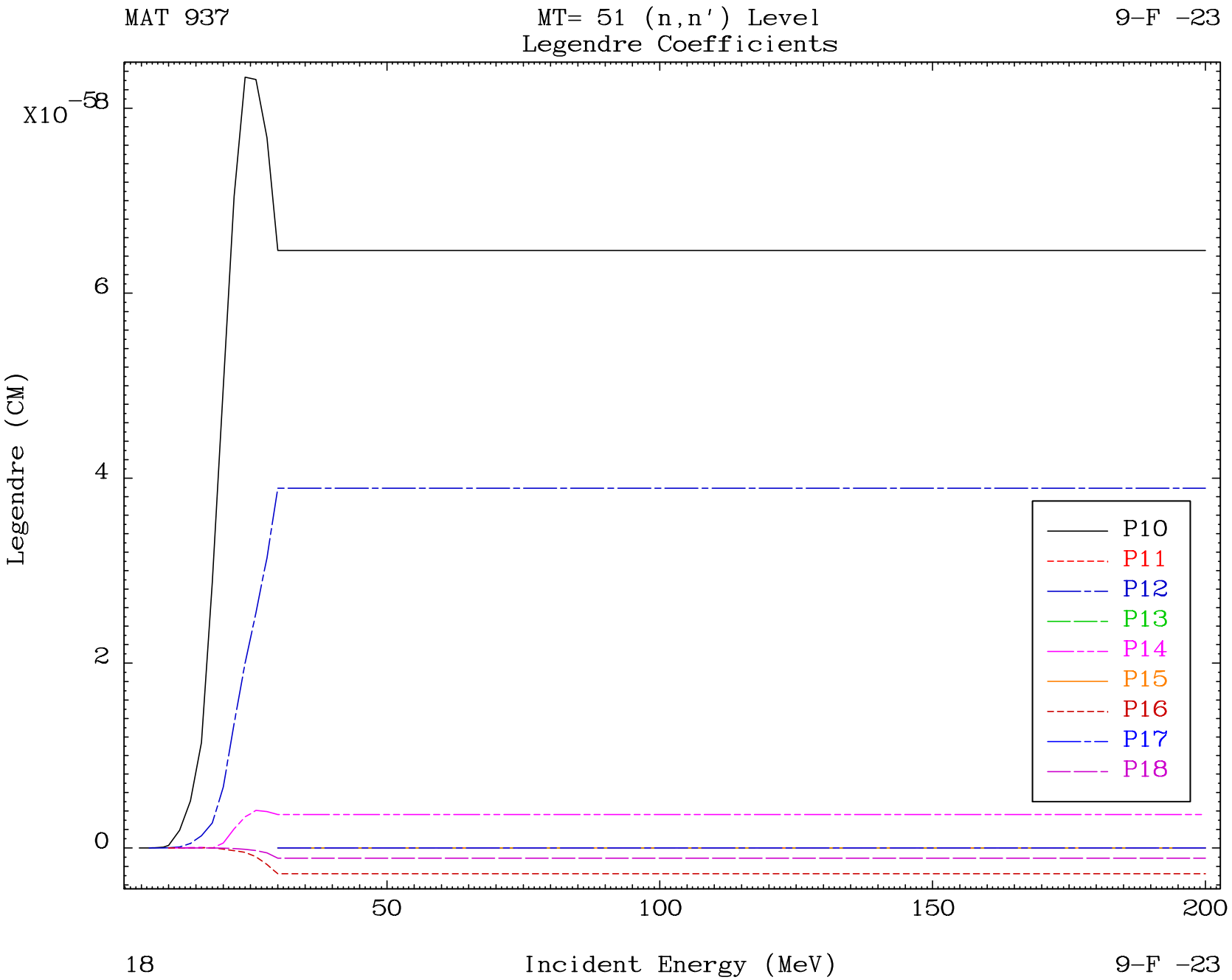

MAT 937
Energy Release
Parameters
9-F -23
Kerma total (eV-barns)
Kerma elastic
Kerma non-elastic (all but mt2)
Kerma inelastic (mt51-91)
Kerma capture (mt102)
Total photon (eV-barns)
Total kinematic kerma (high limit)
Dpa total (eV-barns)
Dpa elastic (mt2)
Dpa inelastic (mt51-91)
Dpa disappearance (mt102 -120)
Parameters
10^{12}
10^{9}
10^{6}
10^{3}
10^{0}
10^{-10}
10^{-8}
10^{-6}
10^{-4}
10^{-2}
10^{0}
10^{2}
13
Incident Energy (MeV)
9-F -23

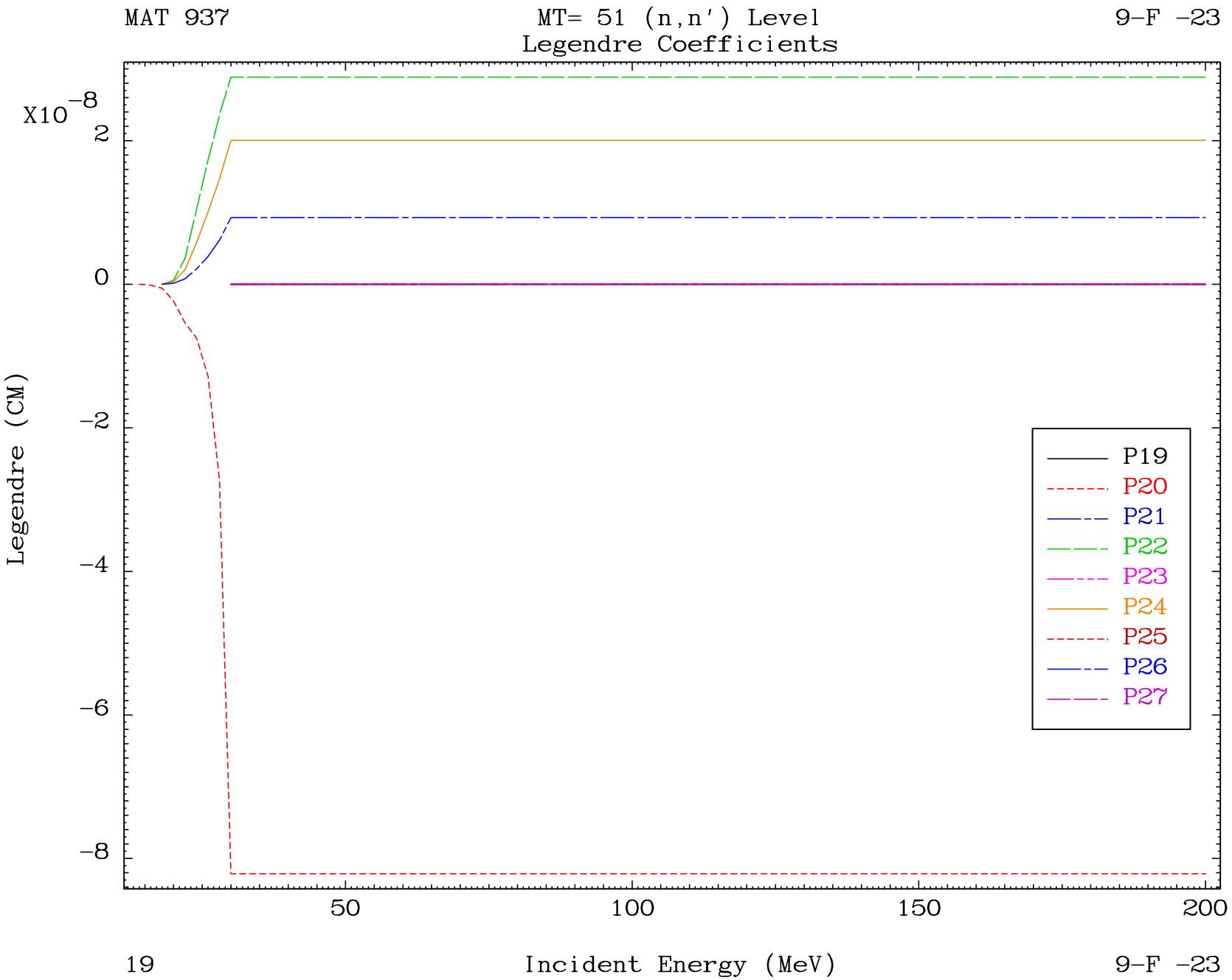

MAT 937
Elastic
Legendre Coefficients
9-F -23
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
Legendre (CM)
0.0
0.2
0.4
0.6
0.8
0
10
20
30
14
Incident Energy (MeV)
9-F -23

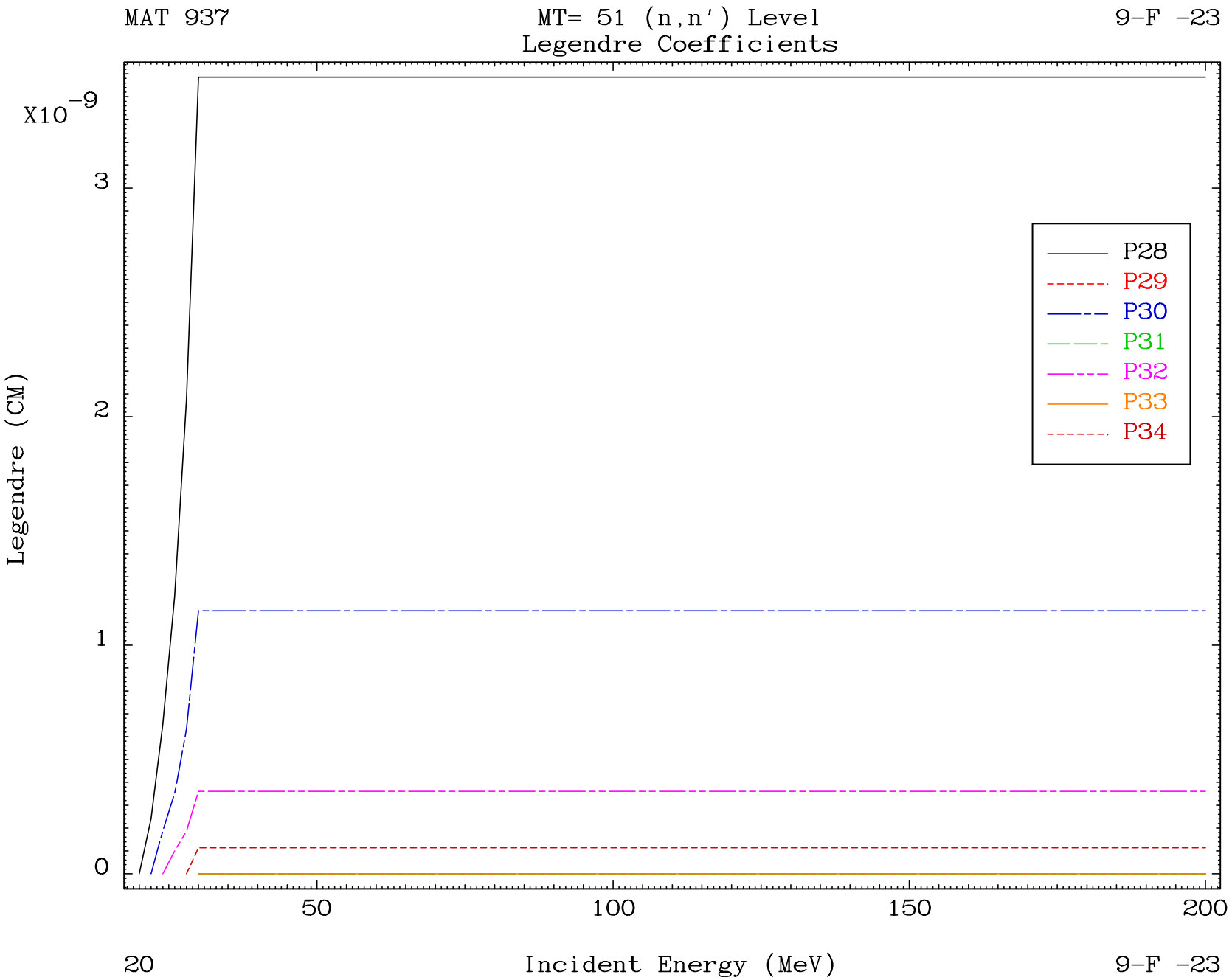

MAT 937
Elastic
Legendre Coefficients
9-F -23
0.015
0.010
0.005
0.000
Legendre (CM)
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
5
10
15
20
25
30
15
Incident Energy (MeV)
9-F -23

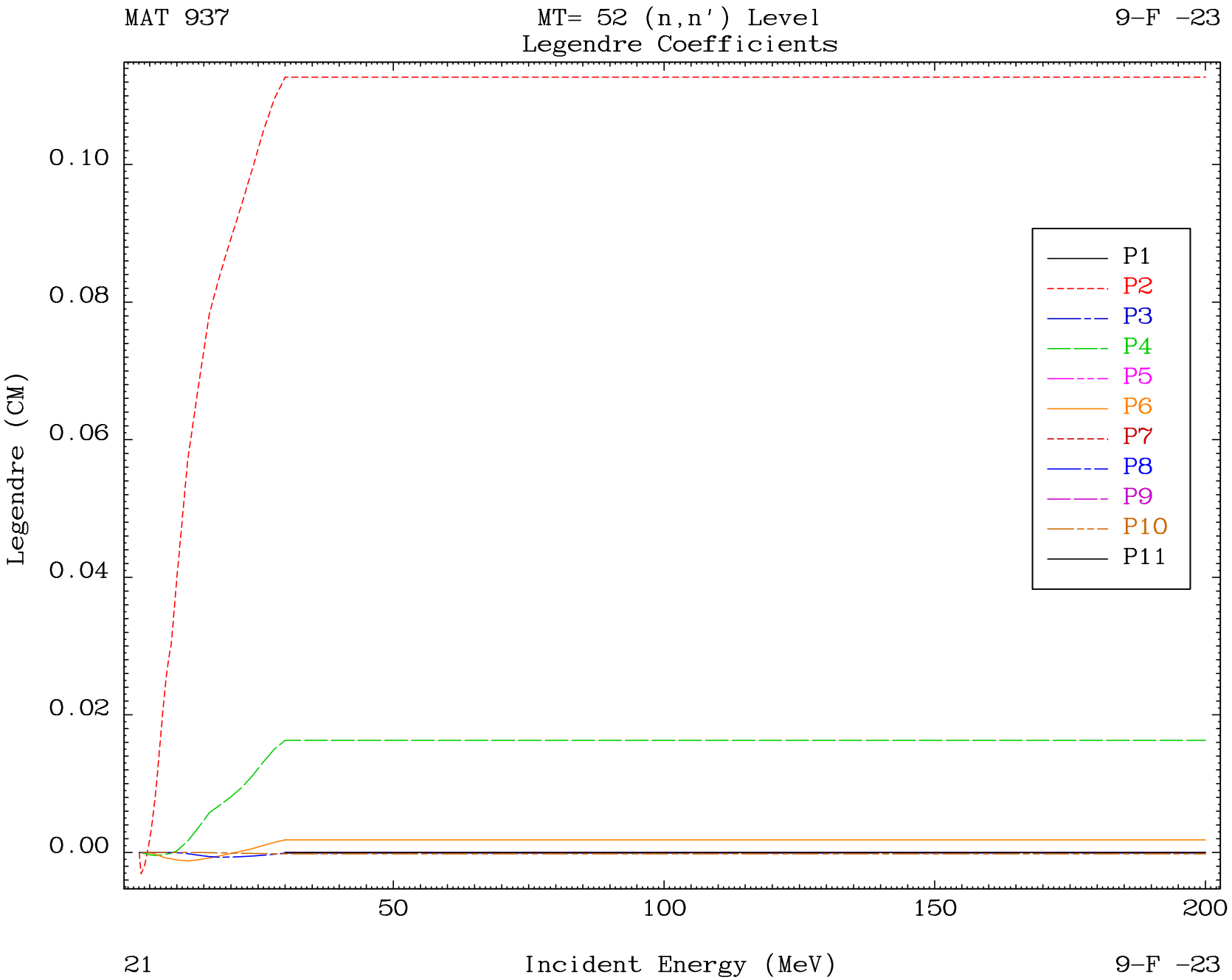

MAT 937
Elastic
Legendre Coefficients
9-F -23
X10^-2
0
-2
-4
-6
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
10
15
20
25
30
16
Incident Energy (MeV)
9-F -23

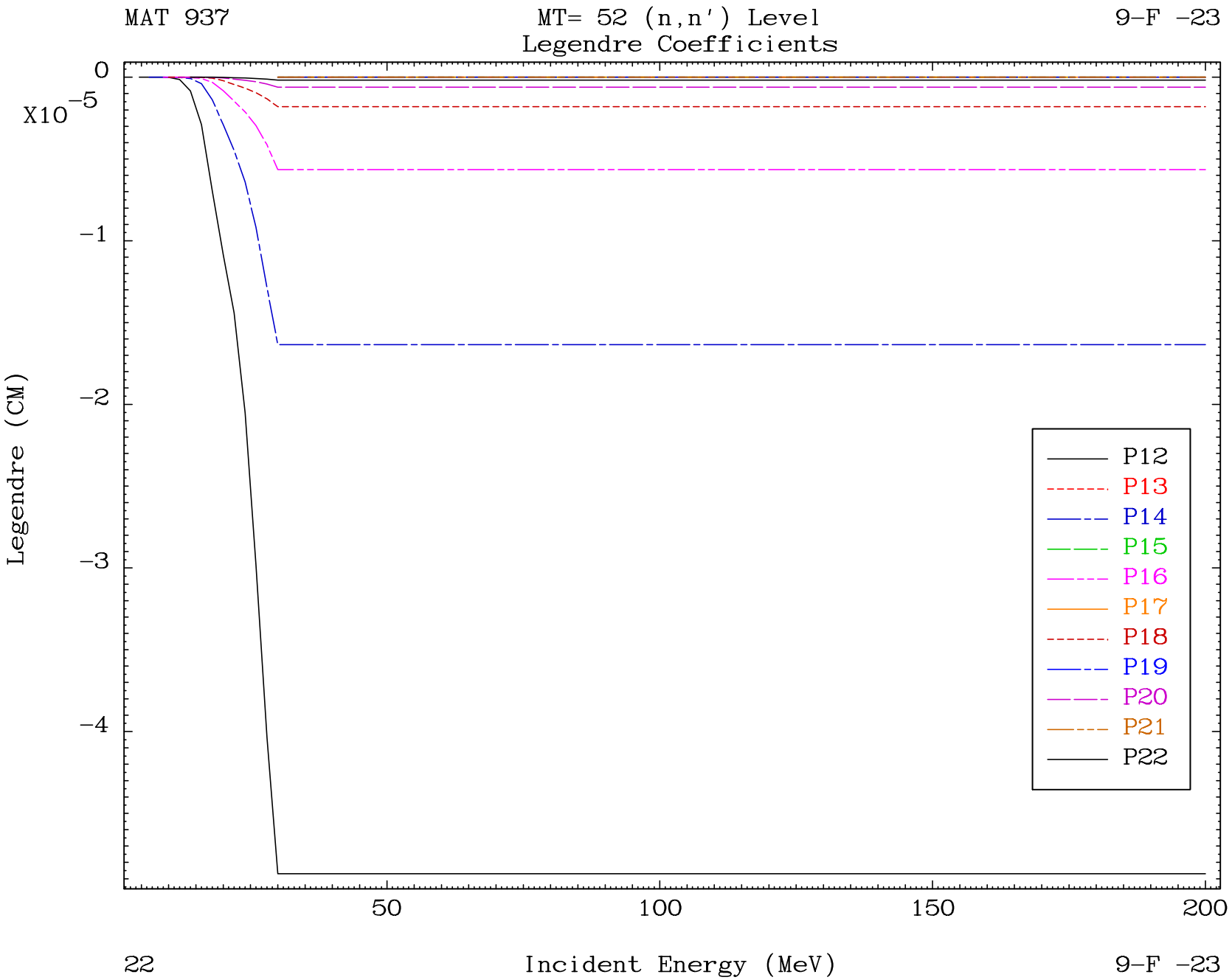

MAT 937
MT= 51 (n,n') Level
Legendre Coefficients
9-F -23
0.10
0.08
0.06
0.04
0.02
0.00
-0.02
Legendre (CM)
0
50
100
150
200
17
Incident Energy (MeV)
9-F -23
P1
P2
P3
P4
P5
P6
P7
P8
P9

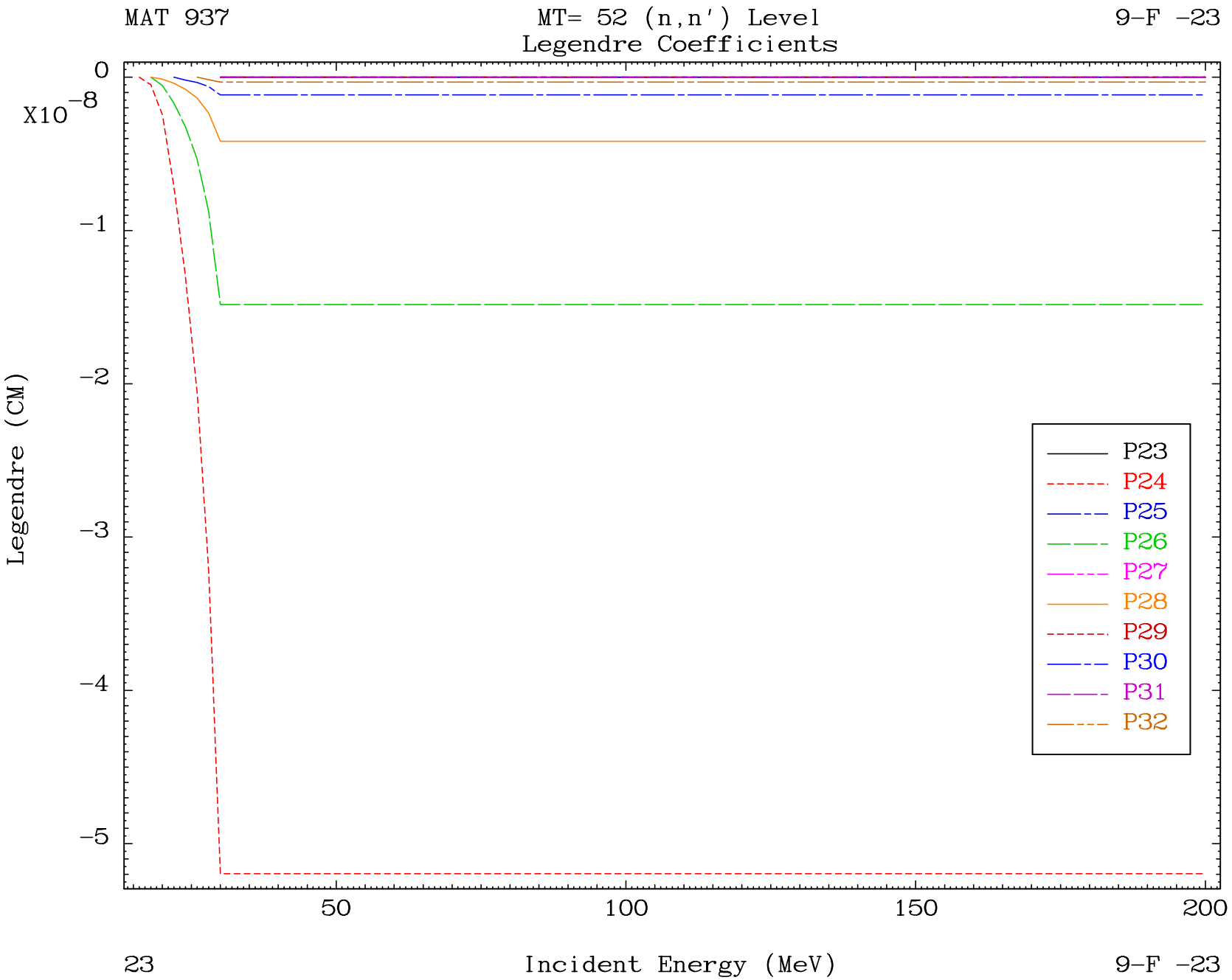

MAT 937
MT= 51 (n,n') Level
Legendre Coefficients
9-F -23
X10 -5
8
6
4
2
0
Legendre (CM)
50
100
150
200
Incident Energy (MeV)
18
9-F -23
P10
P11
P12
P13
P14
P15
P16
P17
P18

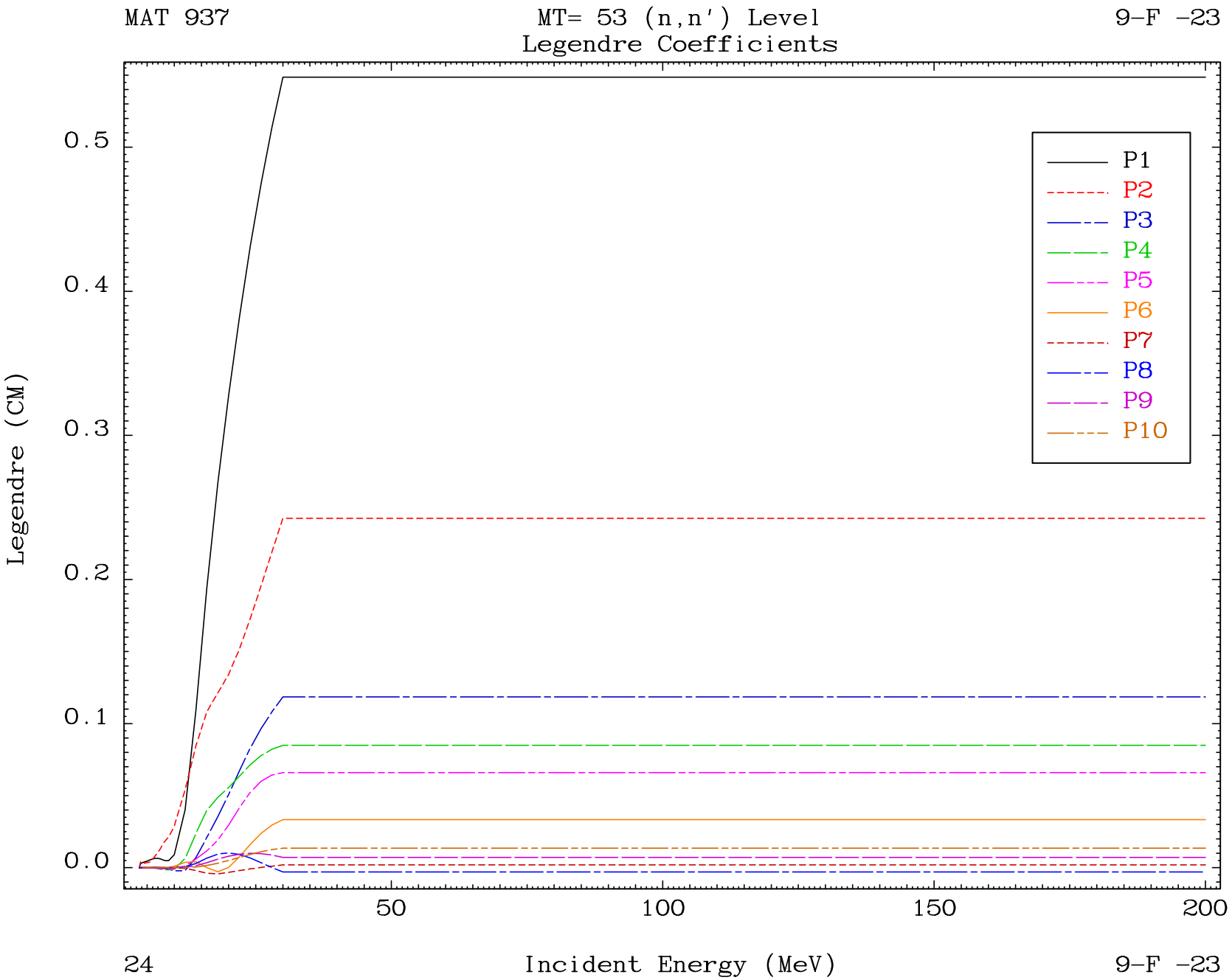

MAT 937
MT= 51 (n,n') Level
Legendre Coefficients
9-F -23
X10^-8
2
0
-2
-4
-6
-8
Legendre (CM)
50
100
150
200
19
Incident Energy (MeV)
9-F -23
P19
P20
P21
P22
P23
P24
P25
P26
P27


MAT 937
MT= 51 (n,n') Level
Legendre Coefficients
9-F -23
X10 -9
3
2
1
0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
20
Incident Energy (MeV)
9-F -23

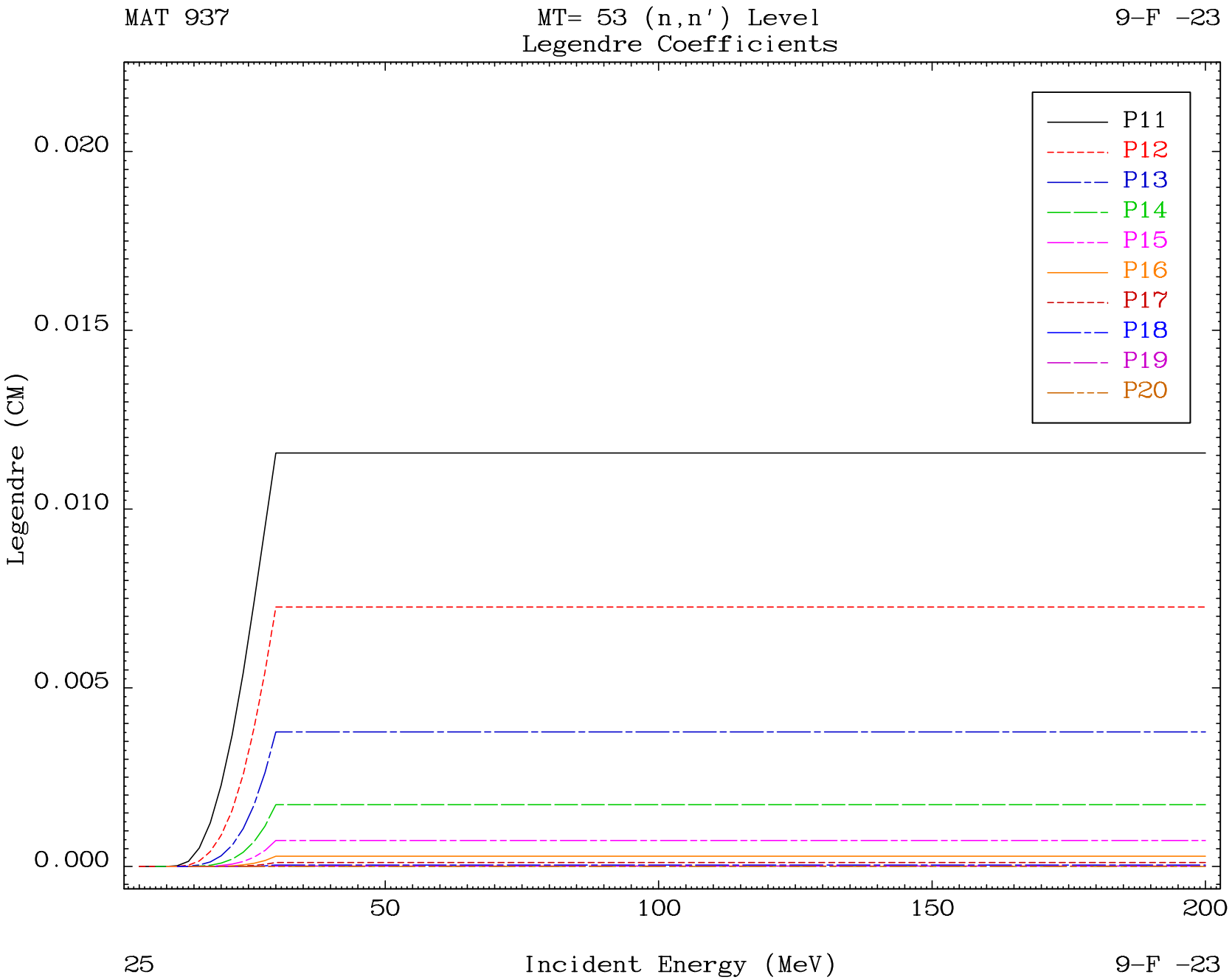

MAT 937
MT= 52 (n,n') Level
Legendre Coefficients
9-F -23
0.10
0.08
0.06
0.04
0.02
0.00
Legendre (CM)
50
100
150
200
21
Incident Energy (MeV)
9-F -23
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11

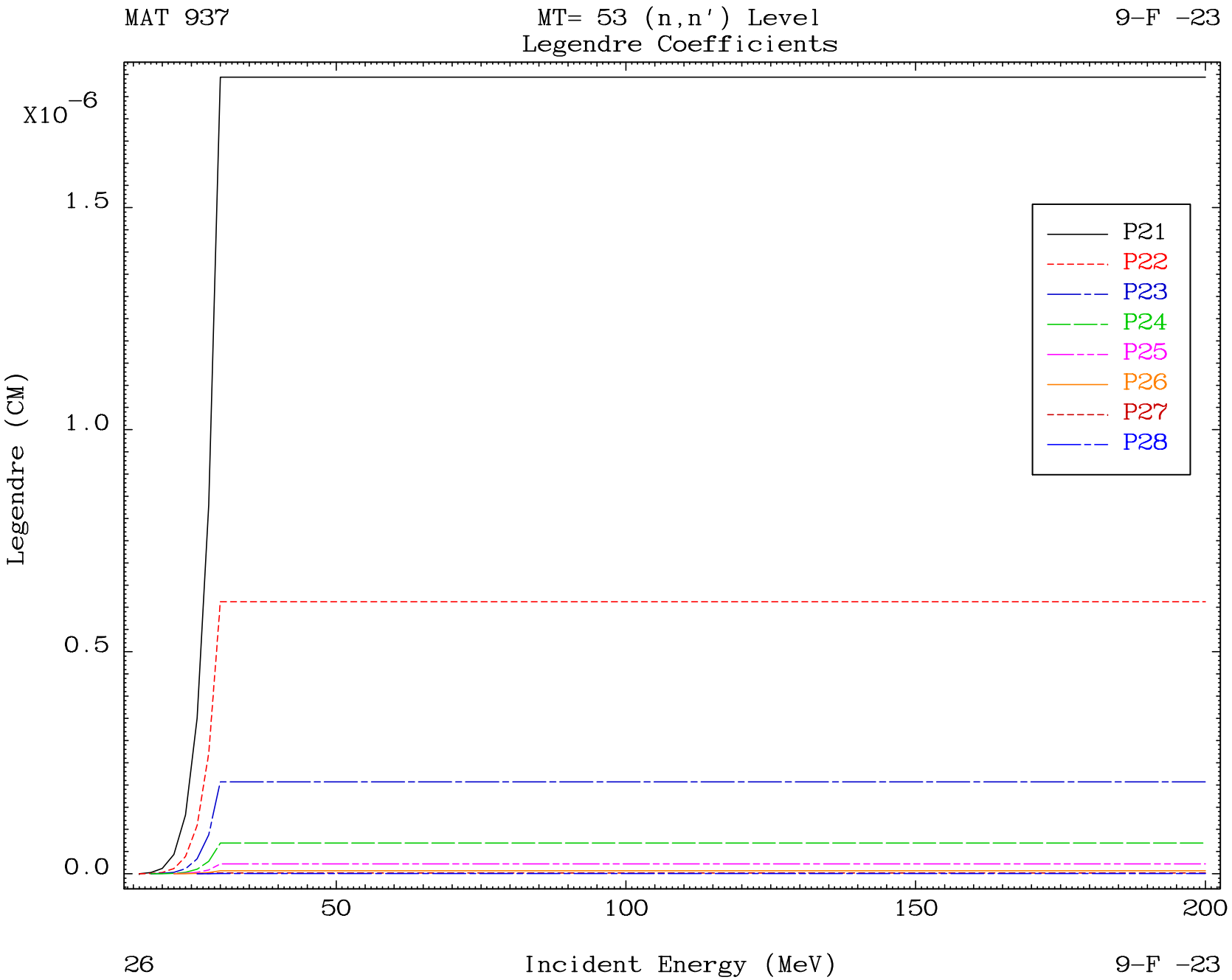

MAT 937
MT= 52 (n,n') Level
Legendre Coefficients
9-F -23
0
X10 -5
-1
-2
-3
-4
Legendre (CM)
50
100
150
200
22
Incident Energy (MeV)
9-F -23
P12
P13
P14
P15
P16
P17
P18
P19
P20
P21
P22

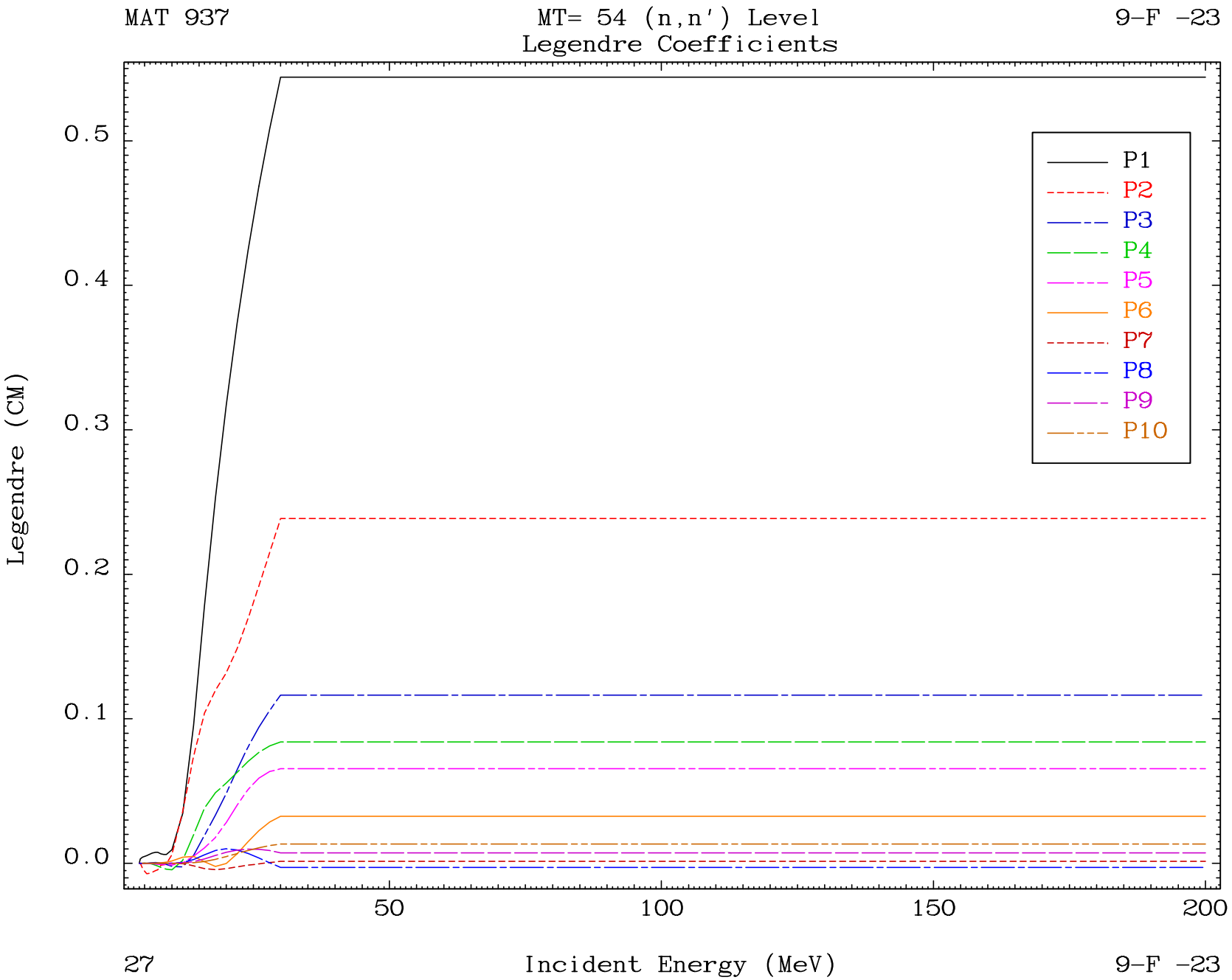

MAT 937
MT= 52 (n,n') Level
Legendre Coefficients
9-F -23
X10 -8
0
-1
-2
-3
-4
-5
Legendre (CM)
50
100
150
200
23
Incident Energy (MeV)
9-F -23
P23
P24
P25
P26
P27
P28
P29
P30
P31
P32

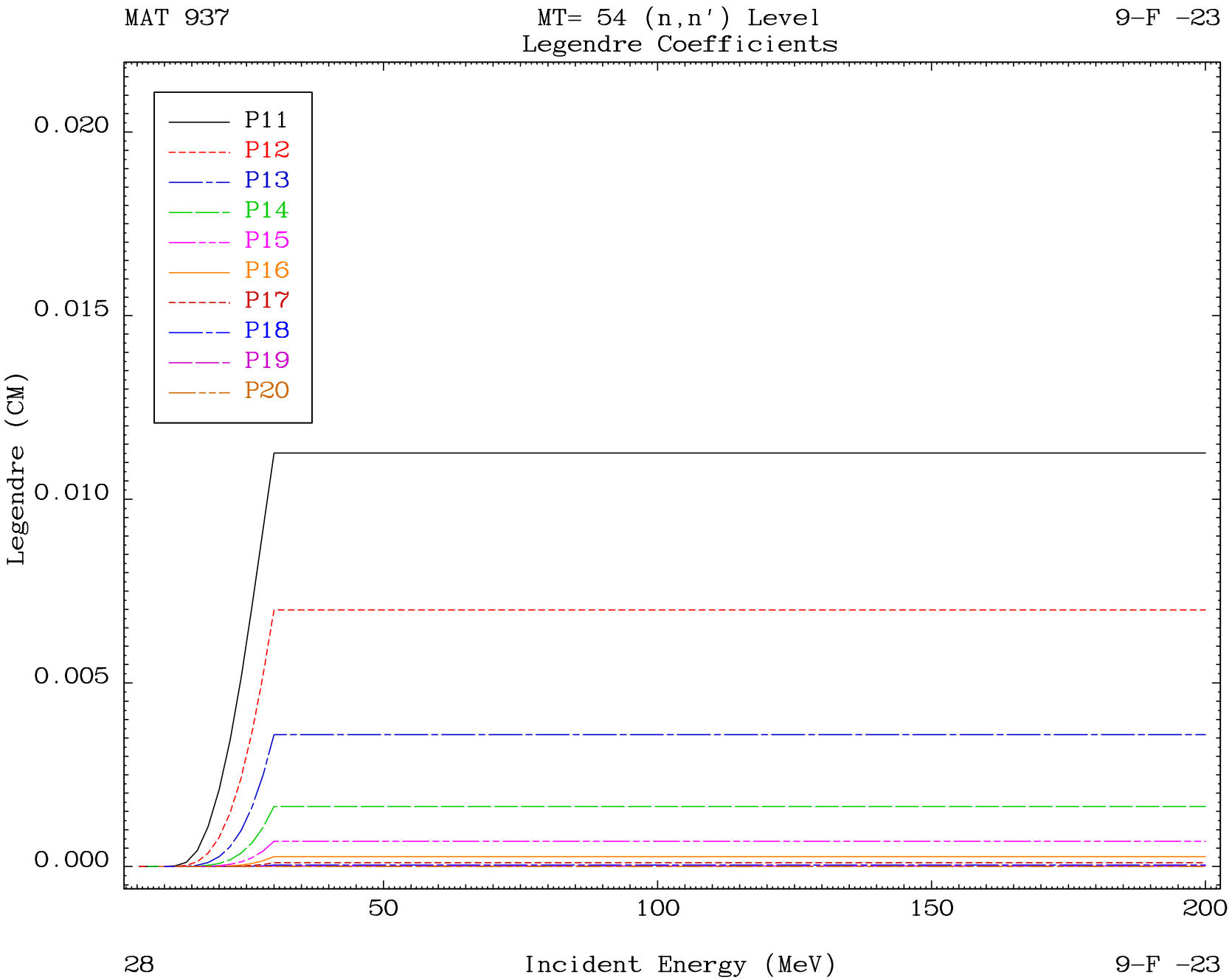

MAT 937
MT= 53 (n,n') Level
Legendre Coefficients
9-F -23
Legendre (CM)
0.5
0.4
0.3
0.2
0.1
0.0
50
100
150
200
Incident Energy (MeV)
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10

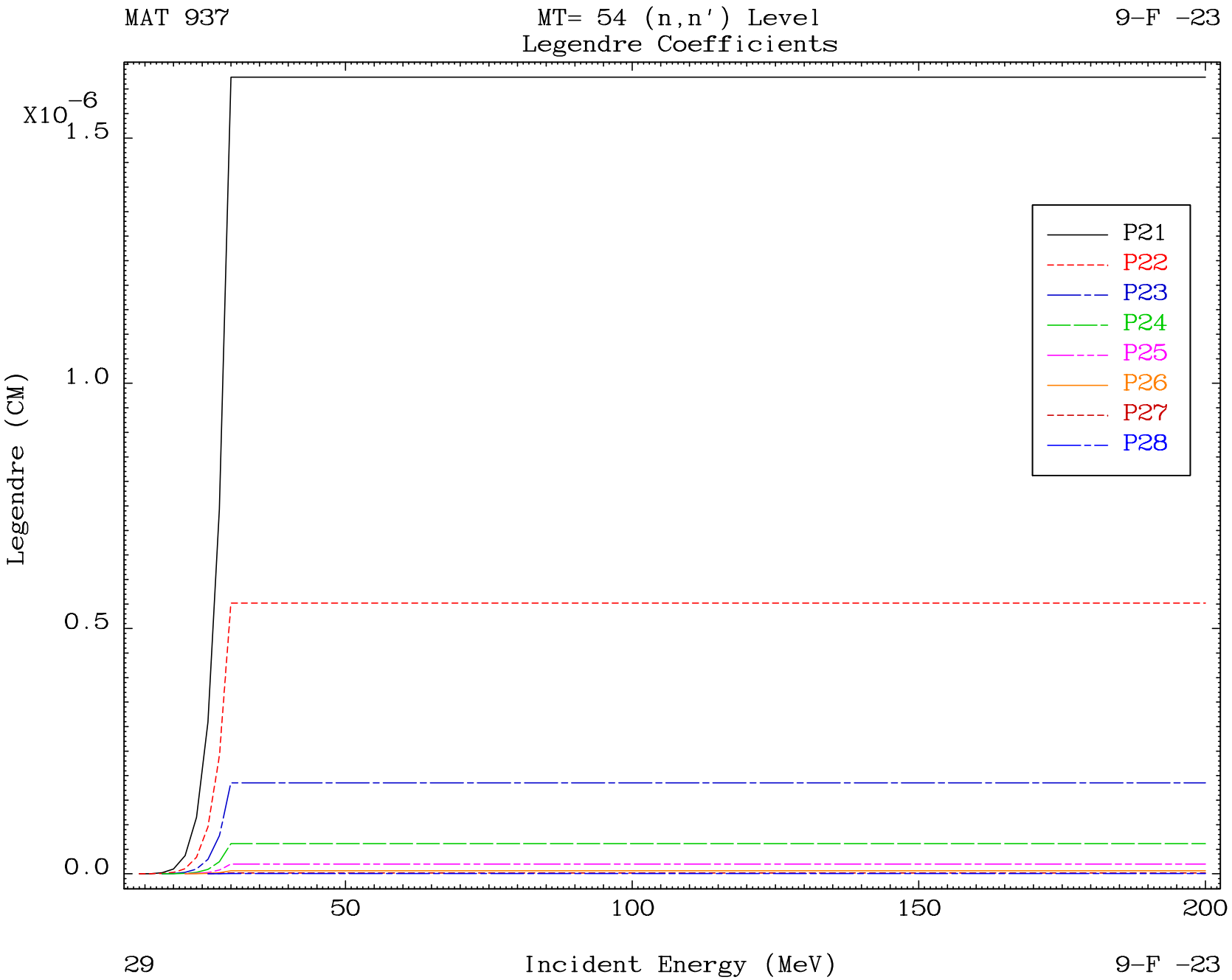
9-F -23

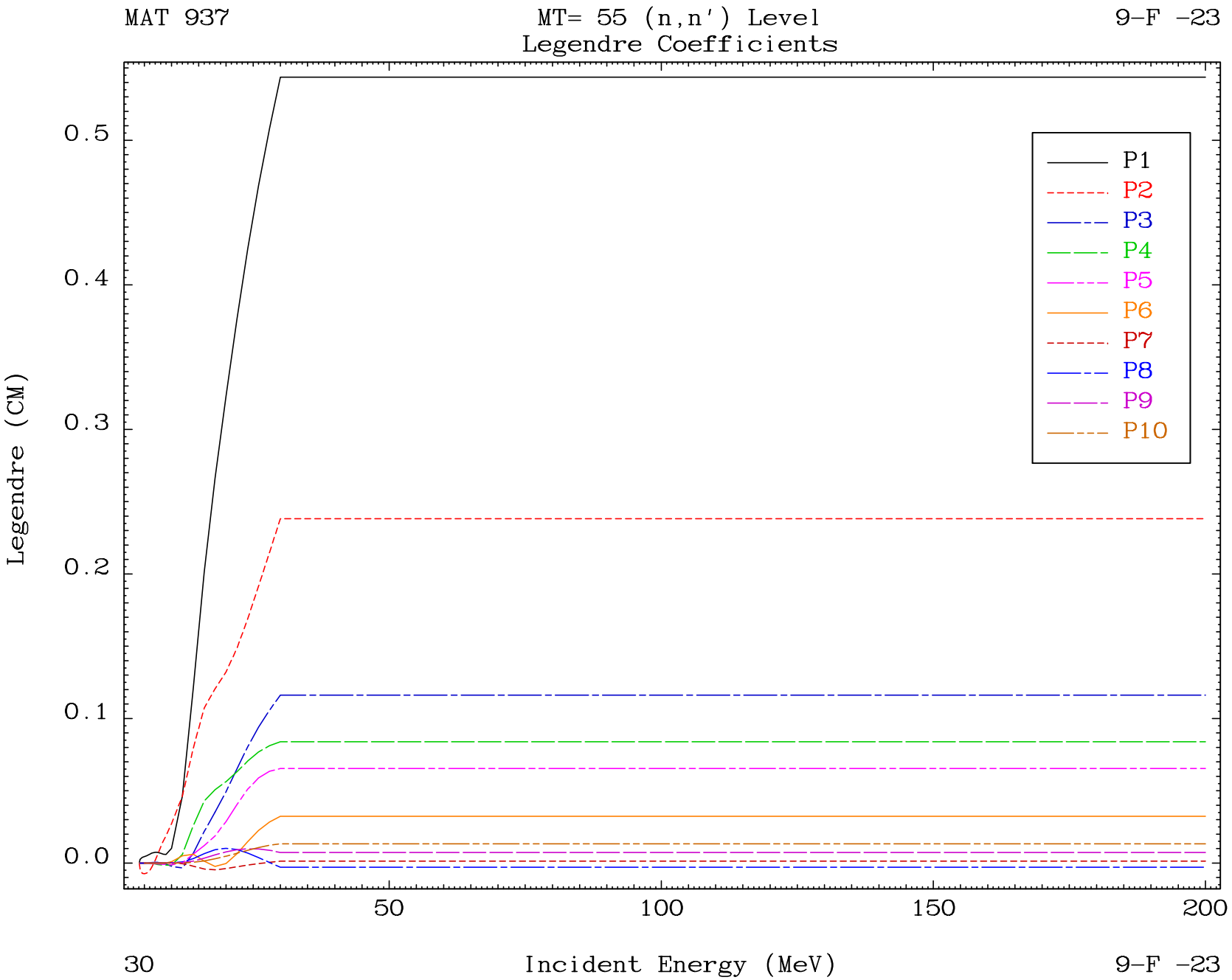

MAT 937
MT= 53 (n,n') Level
Legendre Coefficients
9-F -23
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.020
0.015
0.010
0.005
0.000
Legendre (CM)
25
50
100
150
200
Incident Energy (MeV)
9-F -23

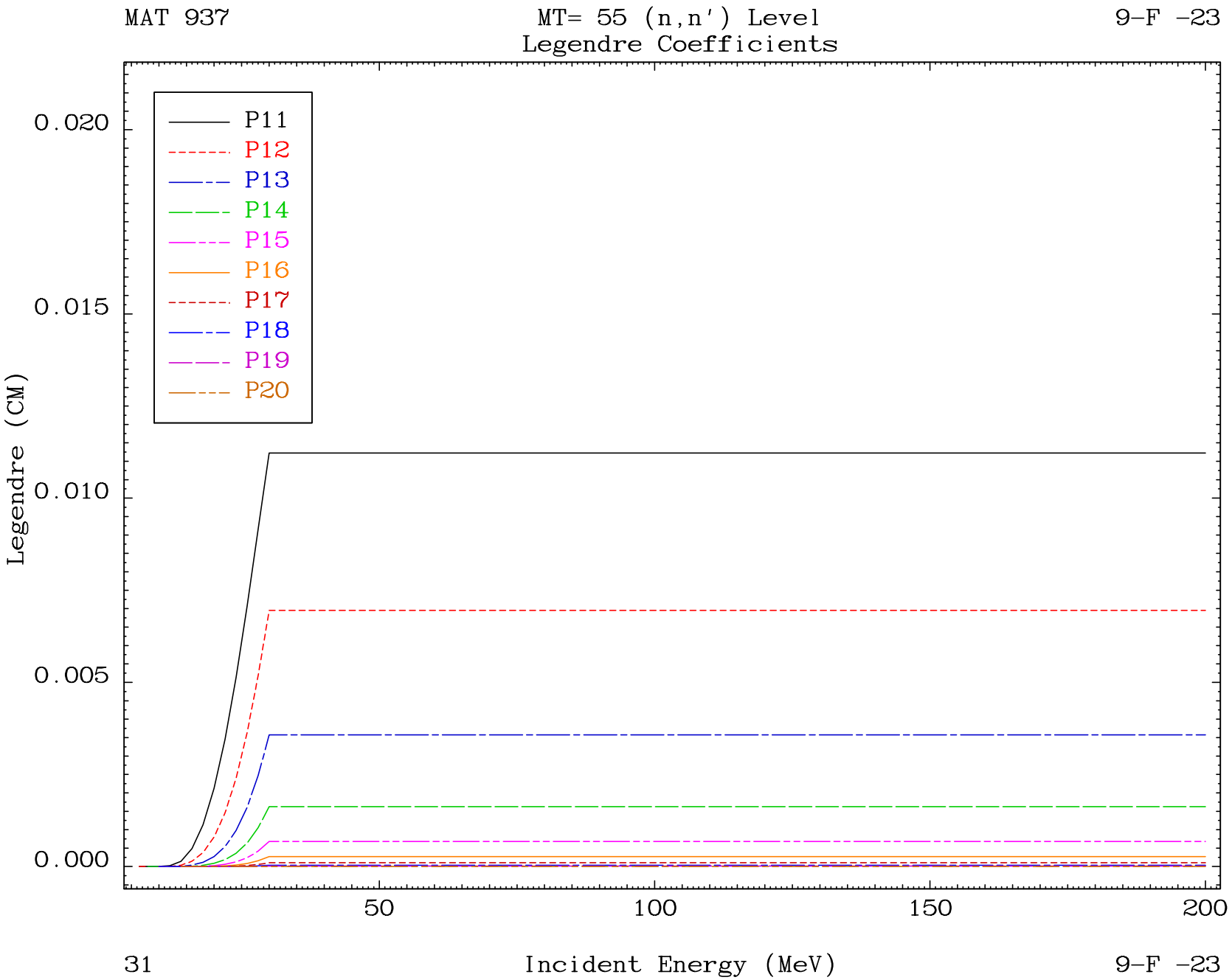

MAT 937
MT= 53 (n,n') Level
Legendre Coefficients
9-F -23
X10-6
1.5
1.0
0.5
0.0
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
50
100
150
200
26
Incident Energy (MeV)
9-F -23

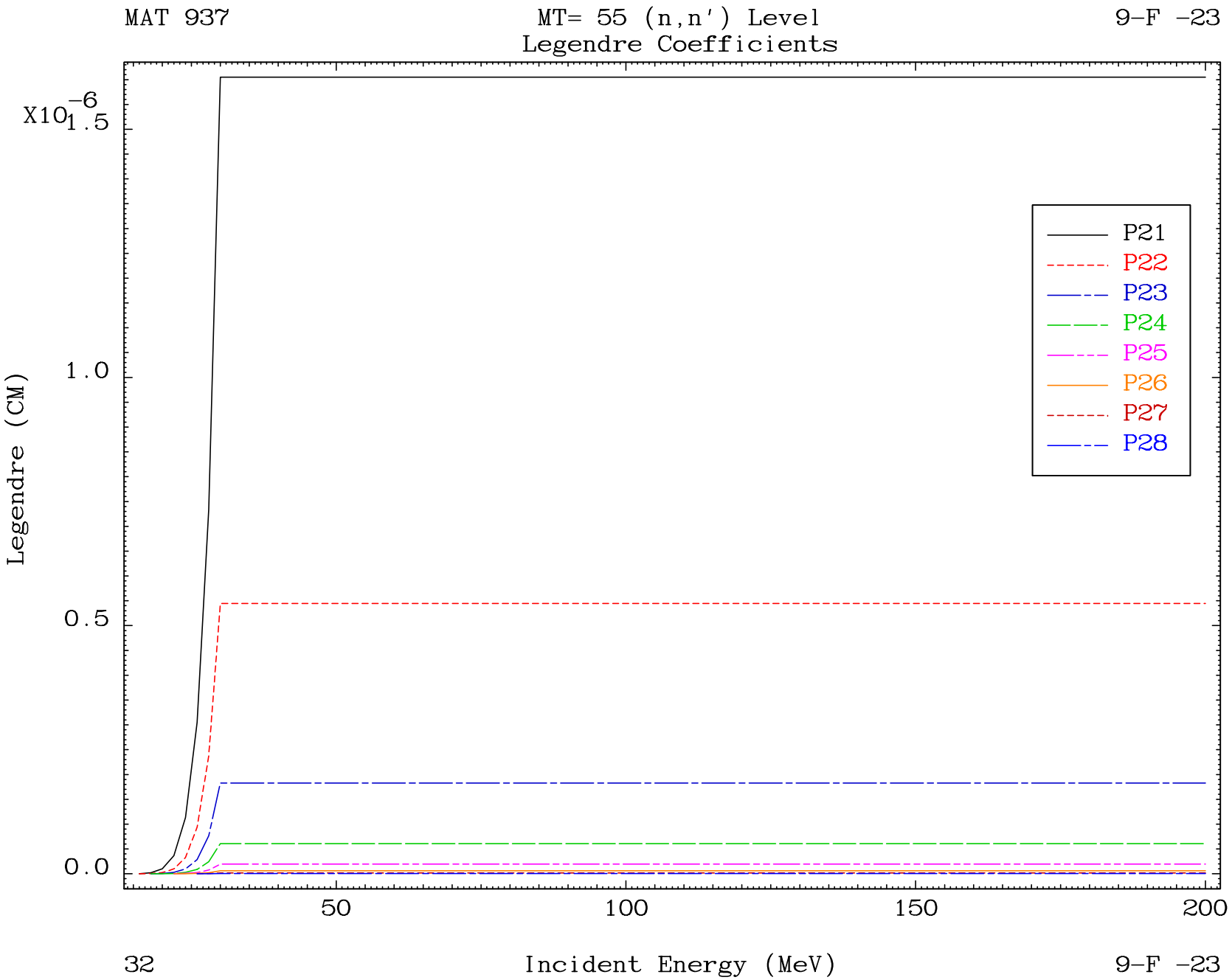

MAT 937
MT= 54 (n,n') Level
Legendre Coefficients
9-F -23
Legendre (CM)
0.5
0.4
0.3
0.2
0.1
0.0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
27
Incident Energy (MeV)
9-F -23

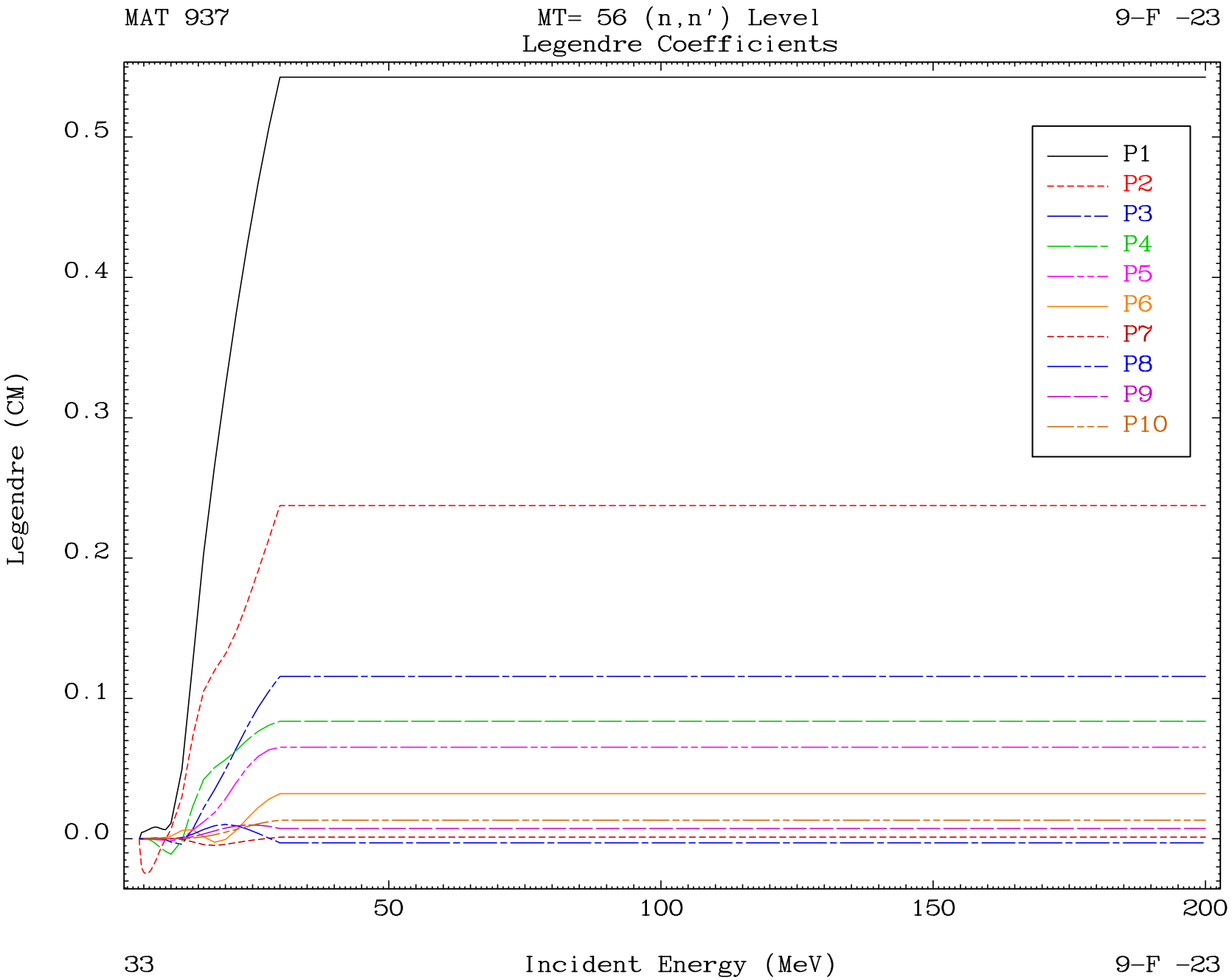

MAT 937
MT= 54 (n,n') Level
Legendre Coefficients
9-F -23
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.020
0.015
0.010
0.005
0.000
Legendre (CM)
50
100
150
200
28
Incident Energy (MeV)
9-F -23

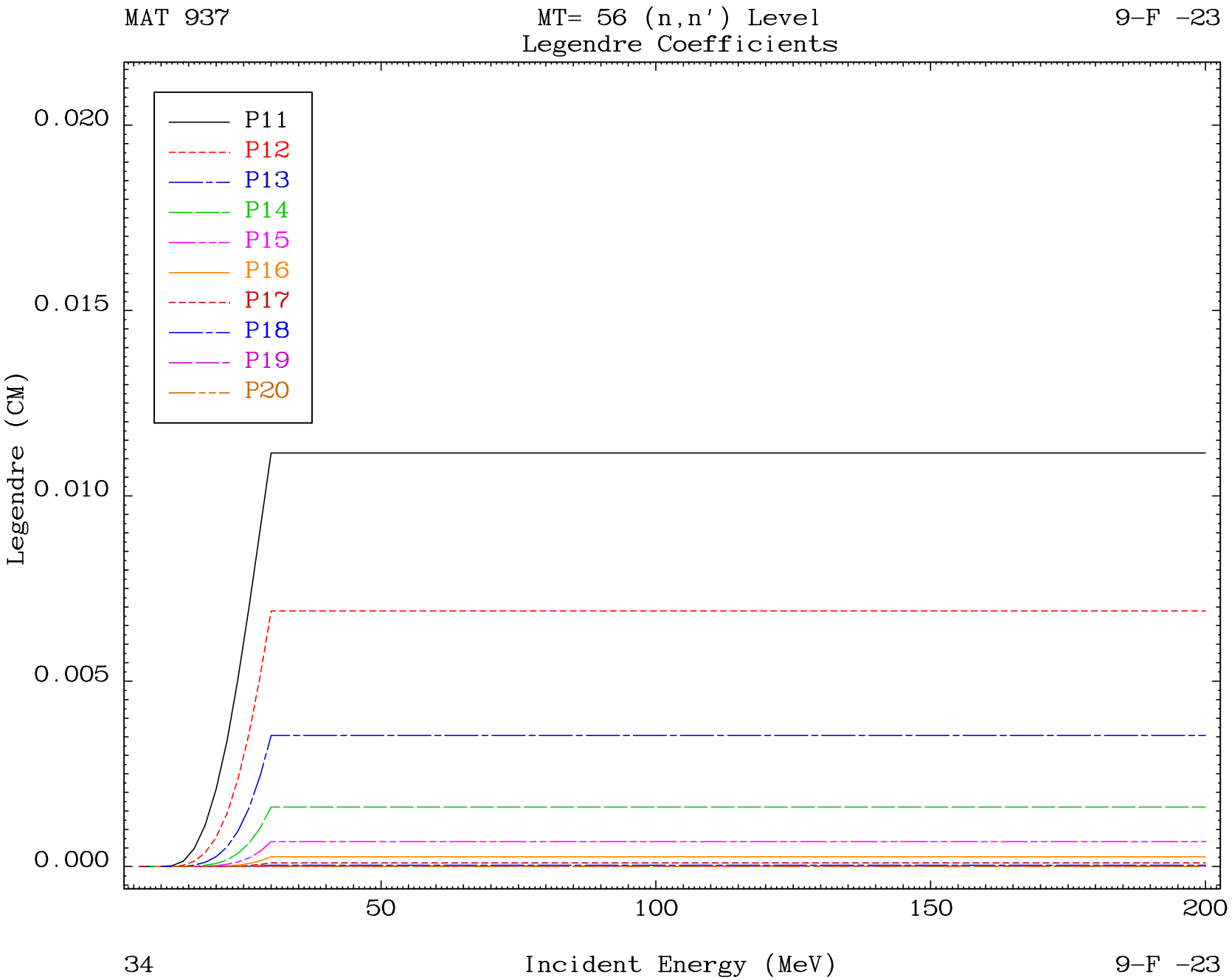

MAT 937
MT= 54 (n,n') Level
Legendre Coefficients
9-F -23
X10^-6
1.5
1.0
0.5
0.0
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
50
100
150
200
29
Incident Energy (MeV)
9-F -23

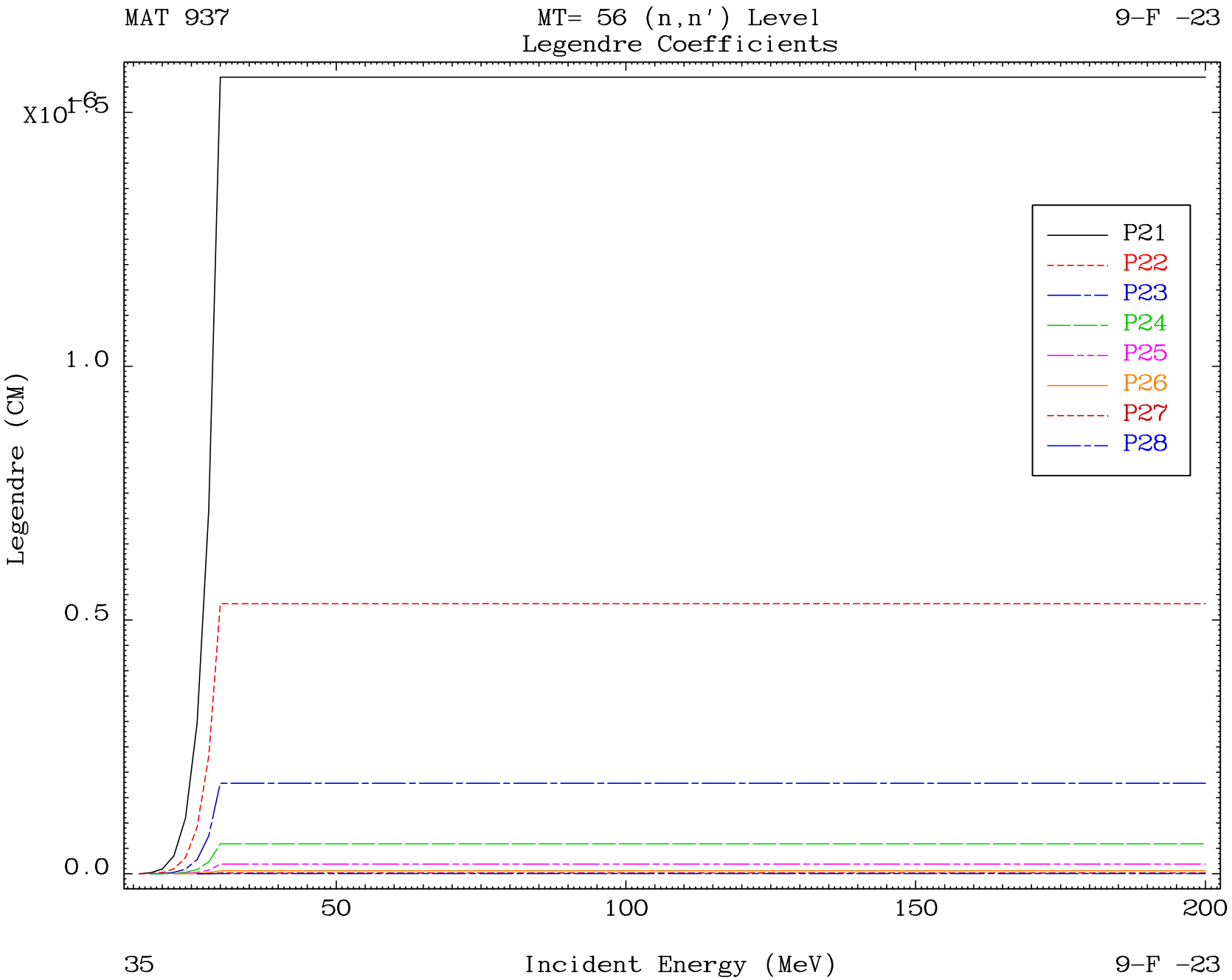

MAT 937
MT= 55 (n,n') Level
Legendre Coefficients
9-F -23
Legendre (CM)
0.5
0.4
0.3
0.2
0.1
0.0
50
100
150
200
30
Incident Energy (MeV)
9-F -23
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10

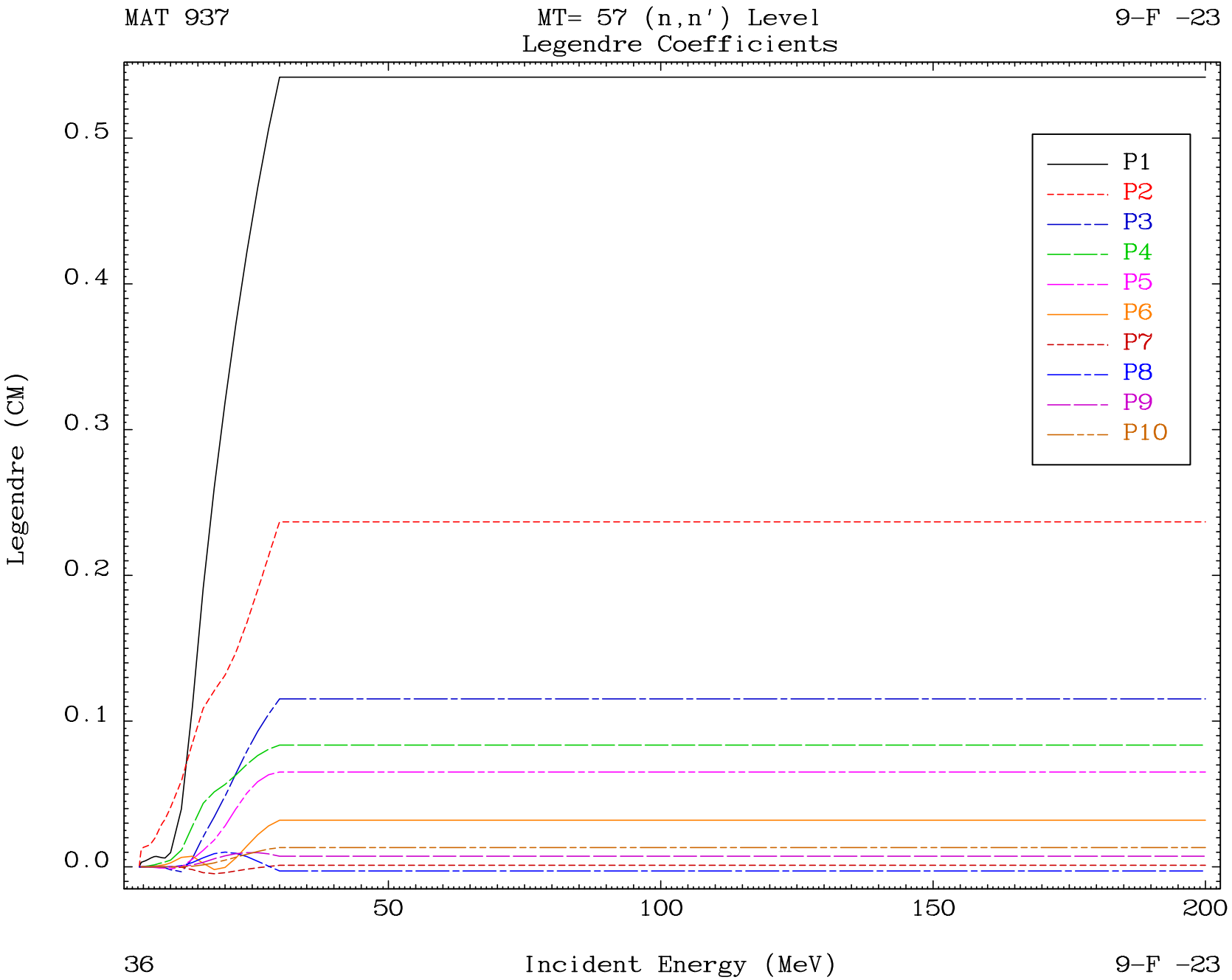

MAT 937
MT= 55 (n,n') Level
Legendre Coefficients
9-F -23
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.020
0.015
0.010
0.005
0.000
Legendre (CM)
50
100
150
200
31
Incident Energy (MeV)
9-F -23

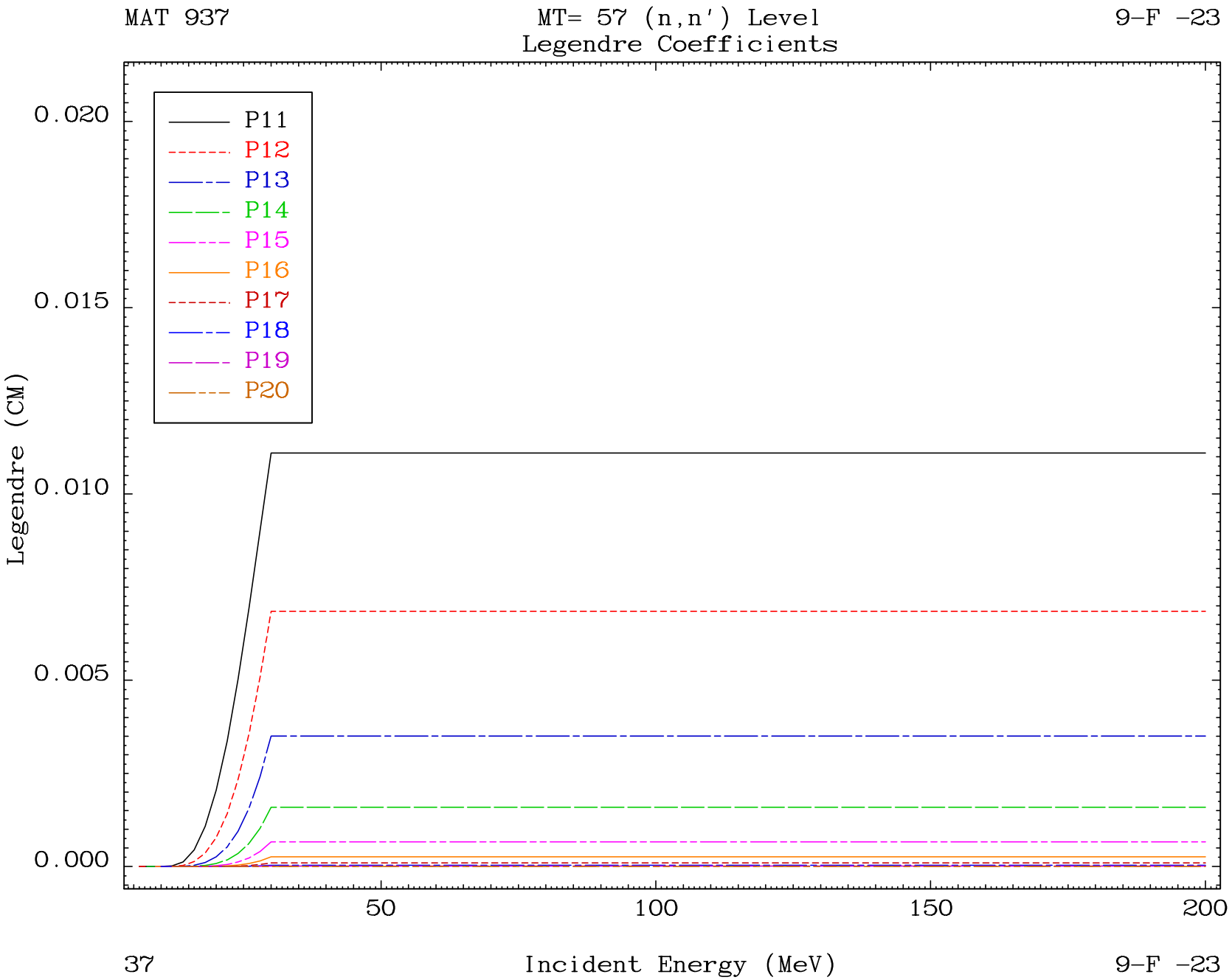

MAT 937
MT= 55 (n,n') Level
Legendre Coefficients
9-F -23
X10^-6
1.5
1.0
0.5
0.0
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
50
100
150
200
32
Incident Energy (MeV)
9-F -23

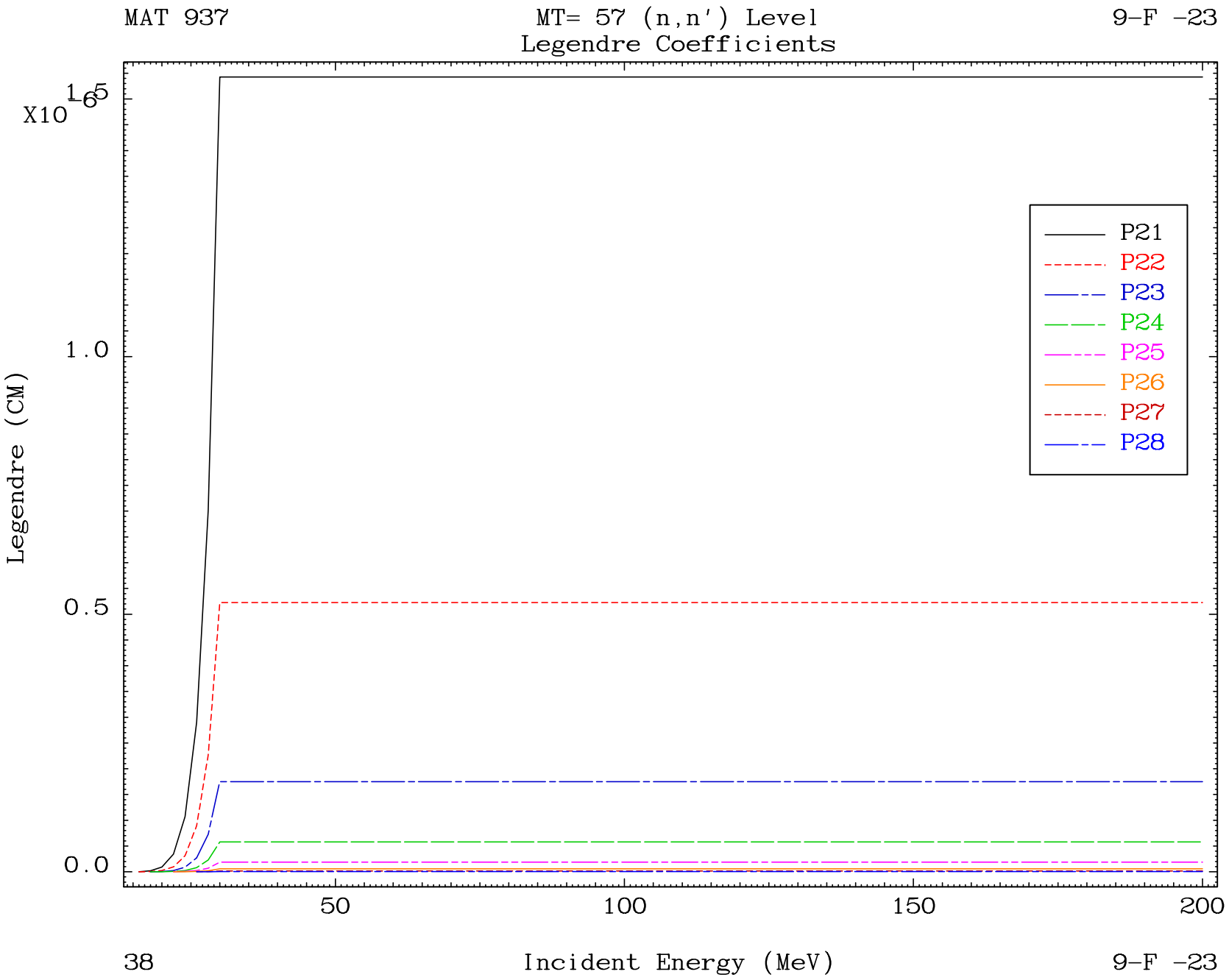

MAT 937
MT= 56 (n,n') Level
Legendre Coefficients
9-F -23
Legendre (CM)
0.5
0.4
0.3
0.2
0.1
0.0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
33
Incident Energy (MeV)
9-F -23

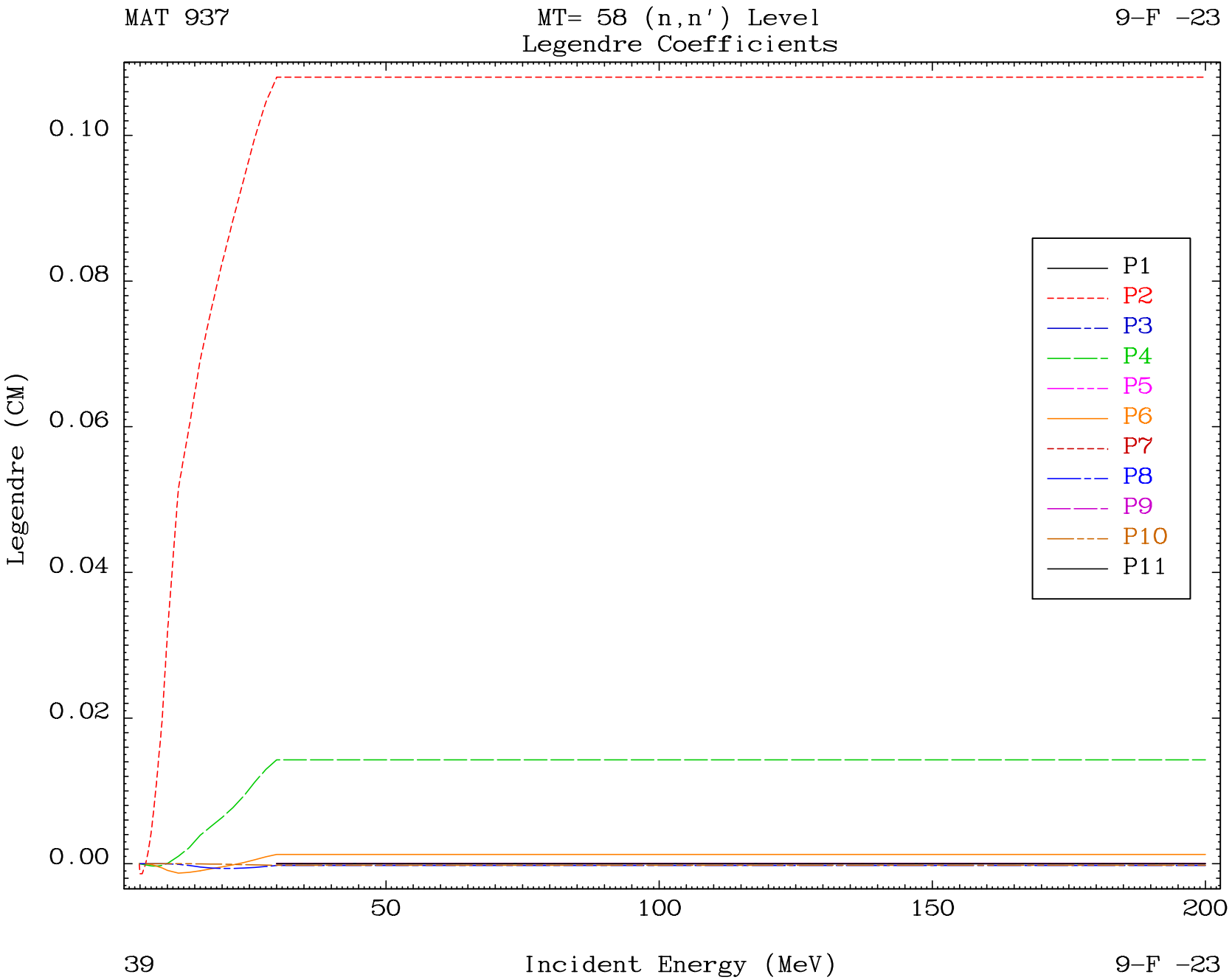

MAT 937
MT= 56 (n,n') Level
Legendre Coefficients
9-F -23
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.020
0.015
0.010
0.005
0.000
Legendre (CM)
50
100
150
200
34
Incident Energy (MeV)
9-F -23

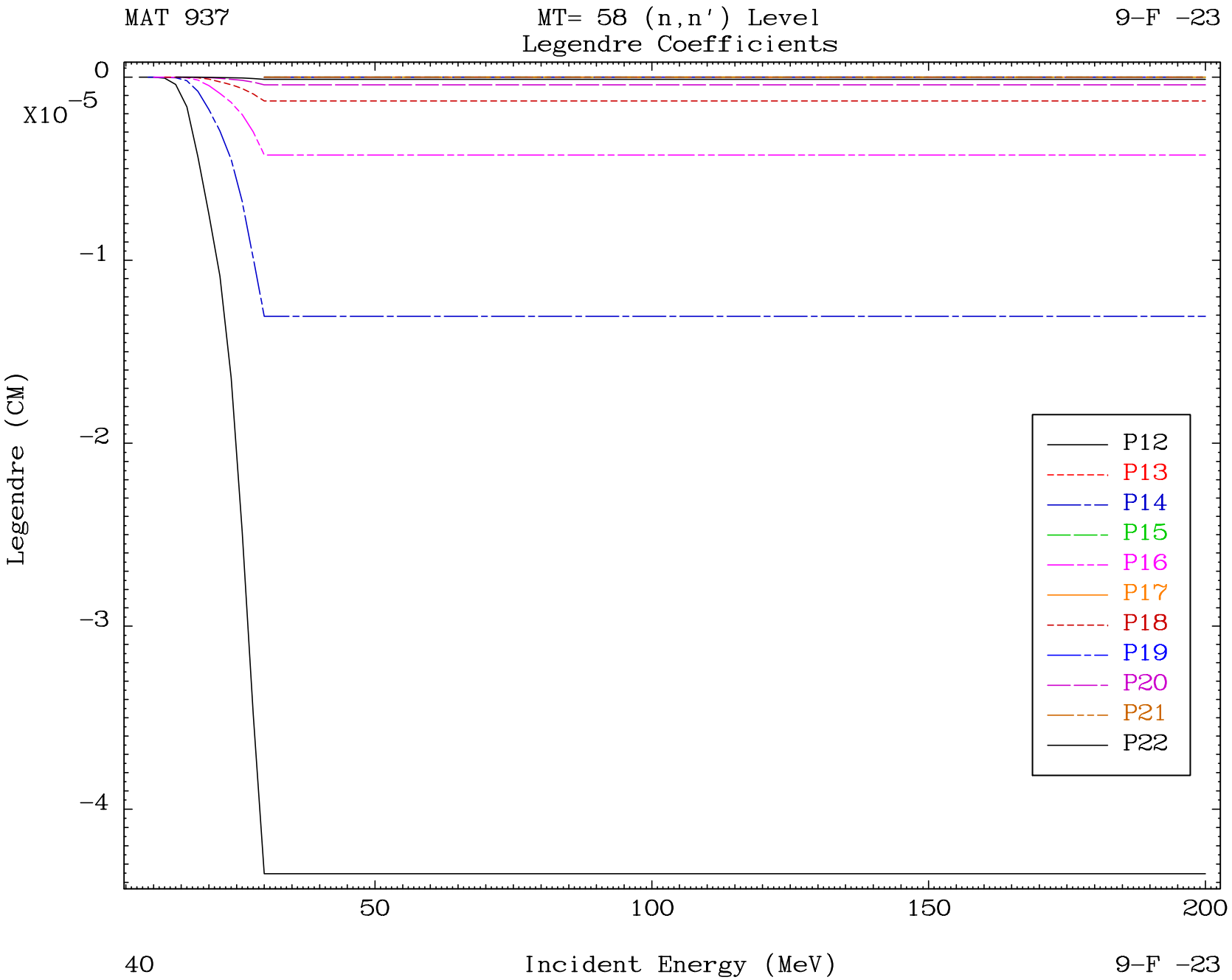

MAT 937
MT= 56 (n,n') Level
Legendre Coefficients
9-F -23
X10-6
1.5
1.0
0.5
0.0
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
50
100
150
200
35
Incident Energy (MeV)
9-F -23

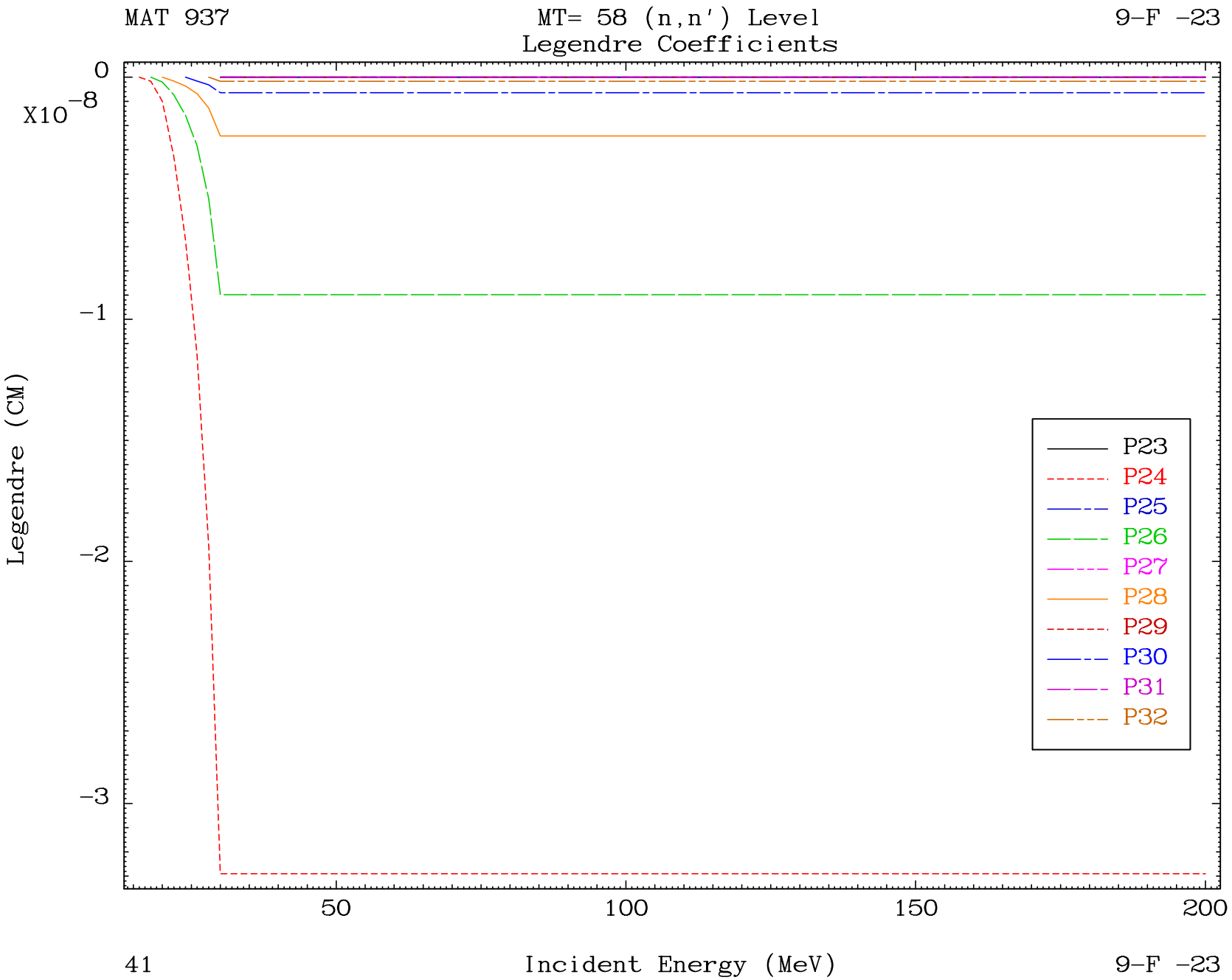

MAT 937
MT= 57 (n,n') Level
Legendre Coefficients
9-F -23
Legendre (CM)
0.5
0.4
0.3
0.2
0.1
0.0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
36
Incident Energy (MeV)
9-F -23

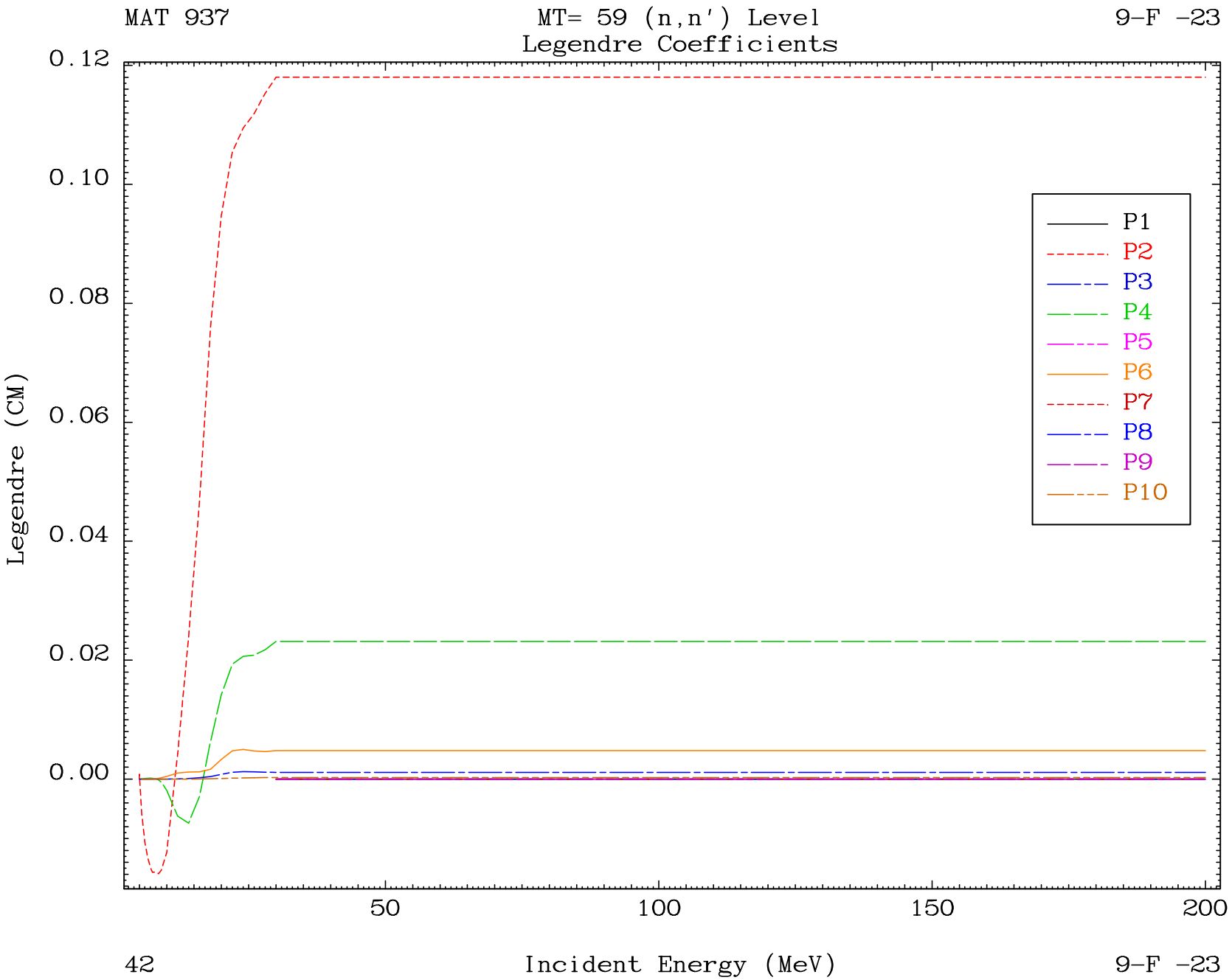

MAT 937
MT= 57 (n,n') Level
Legendre Coefficients
9-F -23
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.020
0.015
0.010
0.005
0.000
Legendre (CM)
50
100
150
200
37
Incident Energy (MeV)
9-F -23

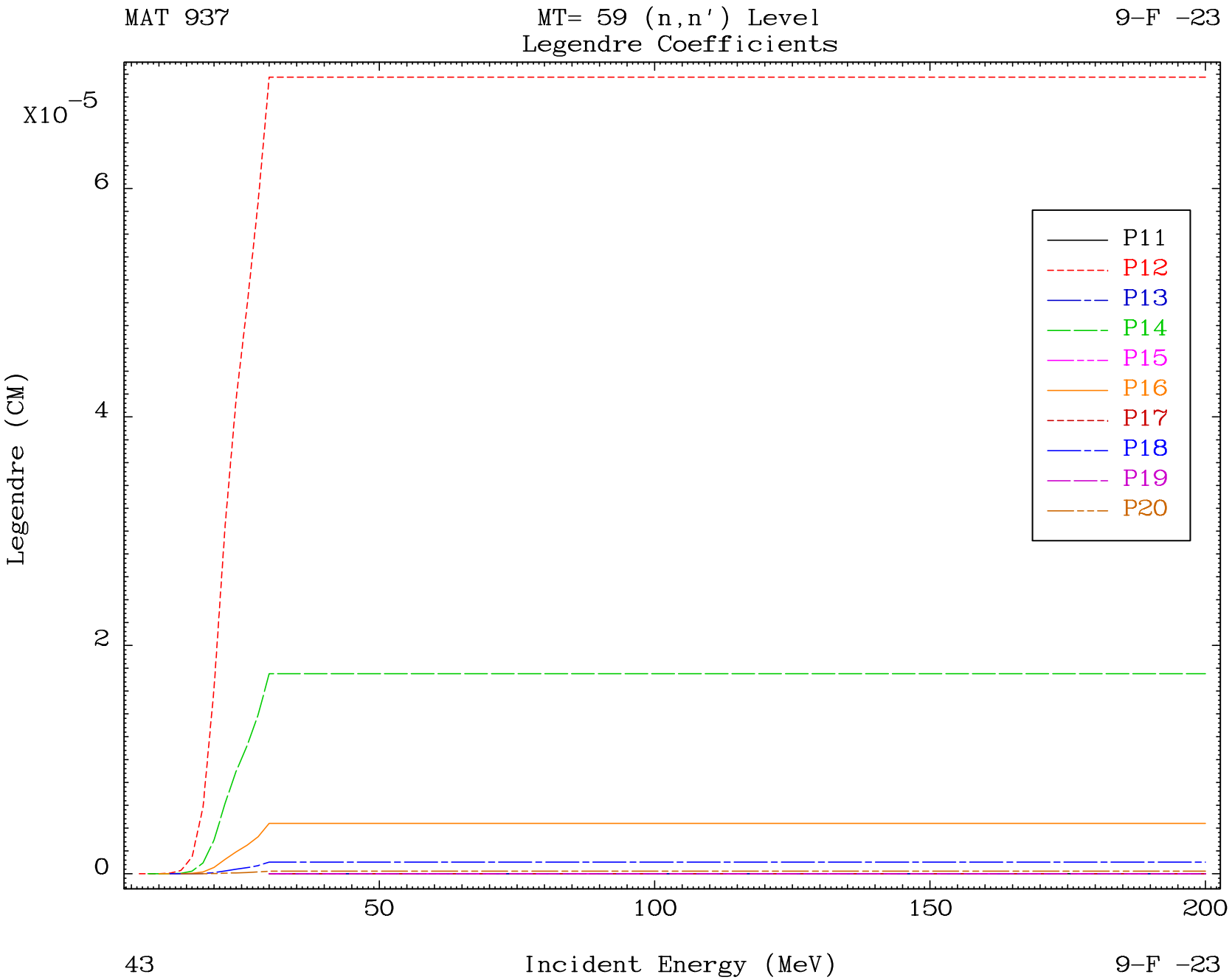

MAT 937
MT= 57 (n,n') Level
Legendre Coefficients
9-F -23
X10 5
1.5
1.0
0.5
0.0
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
50
100
150
200
38
Incident Energy (MeV)
9-F -23

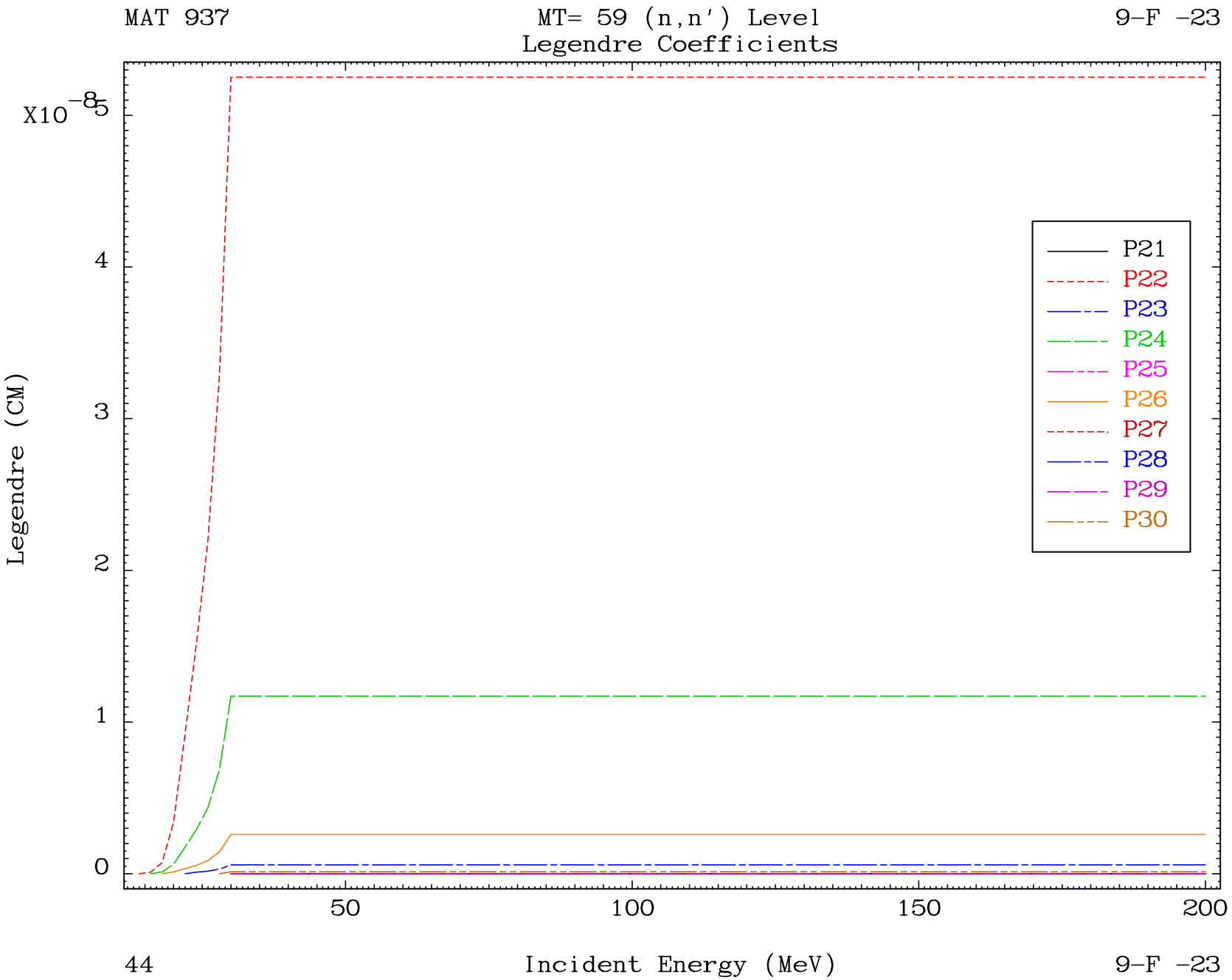

MAT 937
MT= 58 (n,n') Level
Legendre Coefficients
9-F -23
0.10
0.08
0.06
0.04
0.02
0.00
Legendre (CM)
50
100
150
200
39
Incident Energy (MeV)
9-F -23
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11

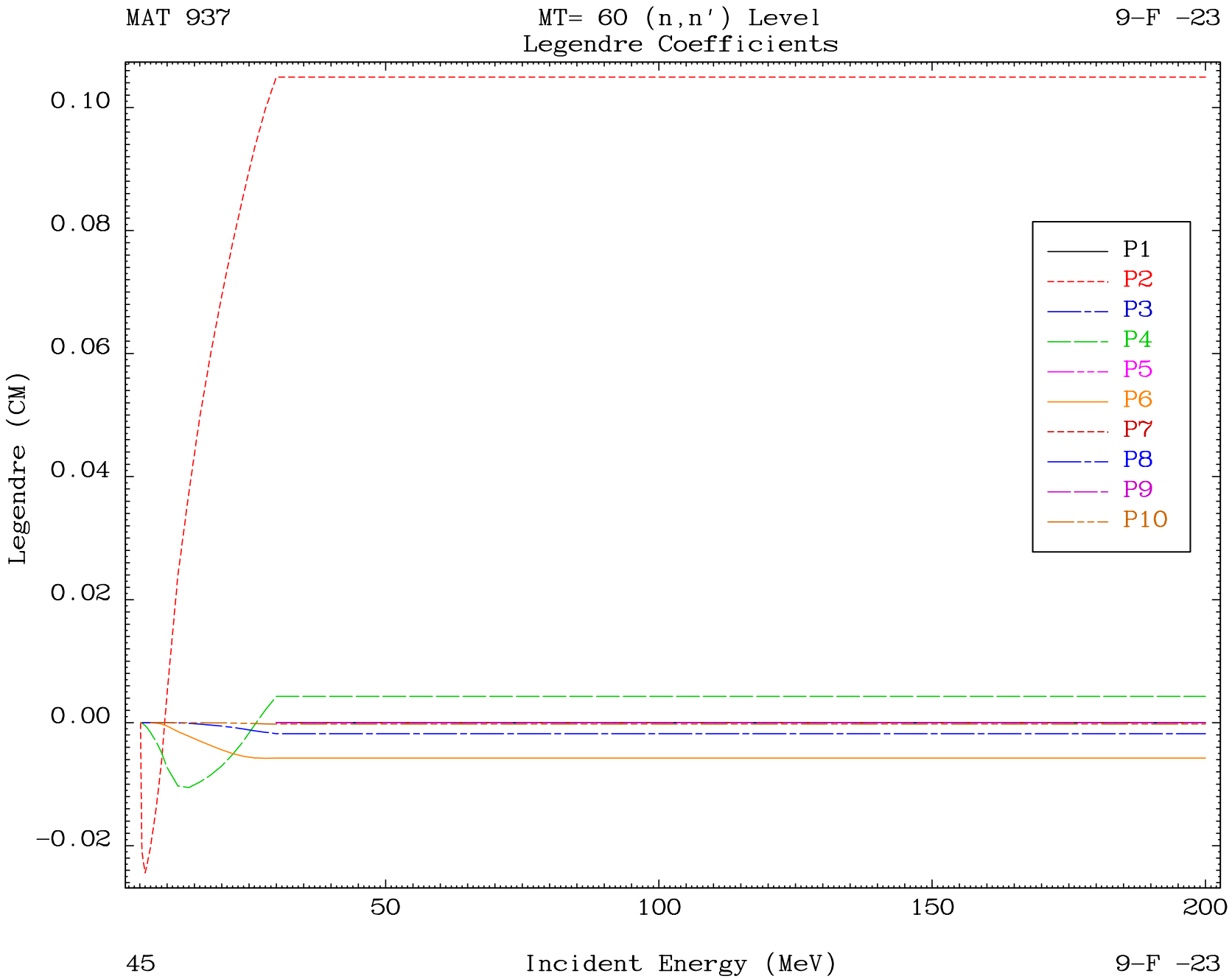

MAT 937
MT= 58 (n,n') Level
Legendre Coefficients
9-F -23
0
X10 -5
-1
-2
-3
-4
Legendre (CM)
P12
P13
P14
P15
P16
P17
P18
P19
P20
P21
P22
50
100
150
200
40
Incident Energy (MeV)
9-F -23

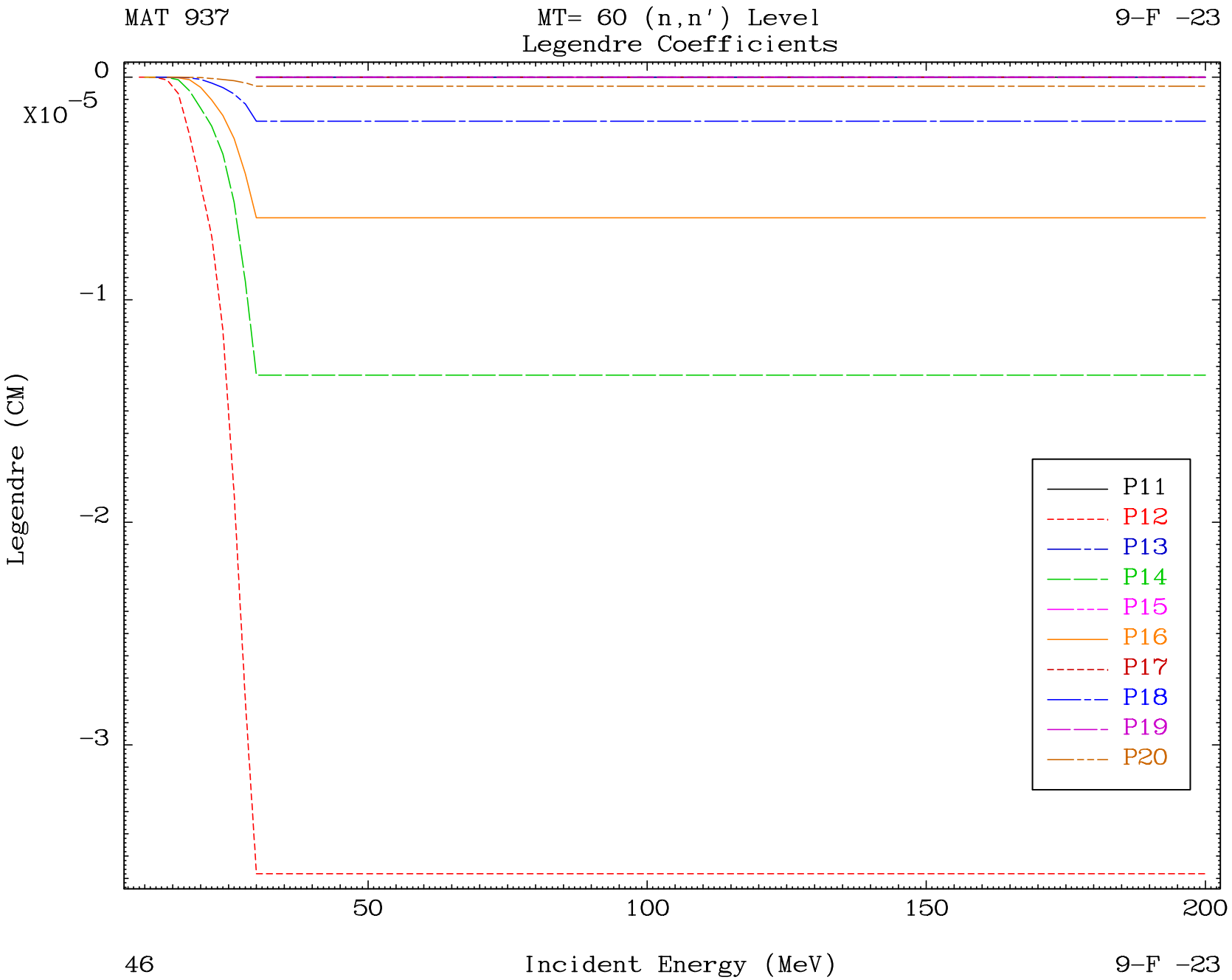

MAT 937
MT= 58 (n,n') Level
Legendre Coefficients
9-F -23
0
X10 -8
-1
-2
-3
Legendre (CM)
50
100
150
200
41
Incident Energy (MeV)
9-F -23
P23
P24
P25
P26
P27
P28
P29
P30
P31
P32

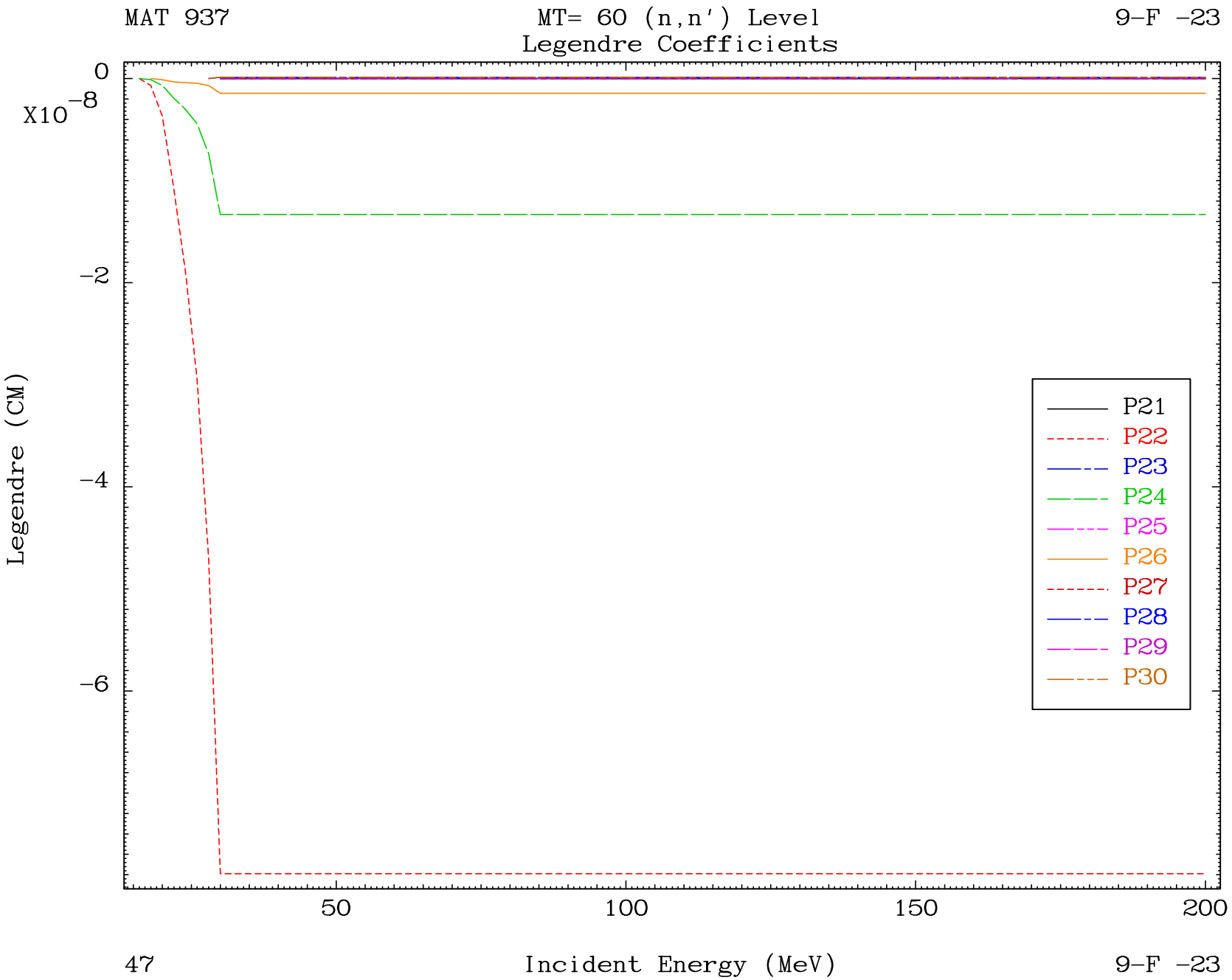

MAT 937
MT= 59 (n,n') Level
Legendre Coefficients
9-F -23
0.12
0.10
0.08
0.06
0.04
0.02
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
50
100
150
200
42
Incident Energy (MeV)
9-F -23

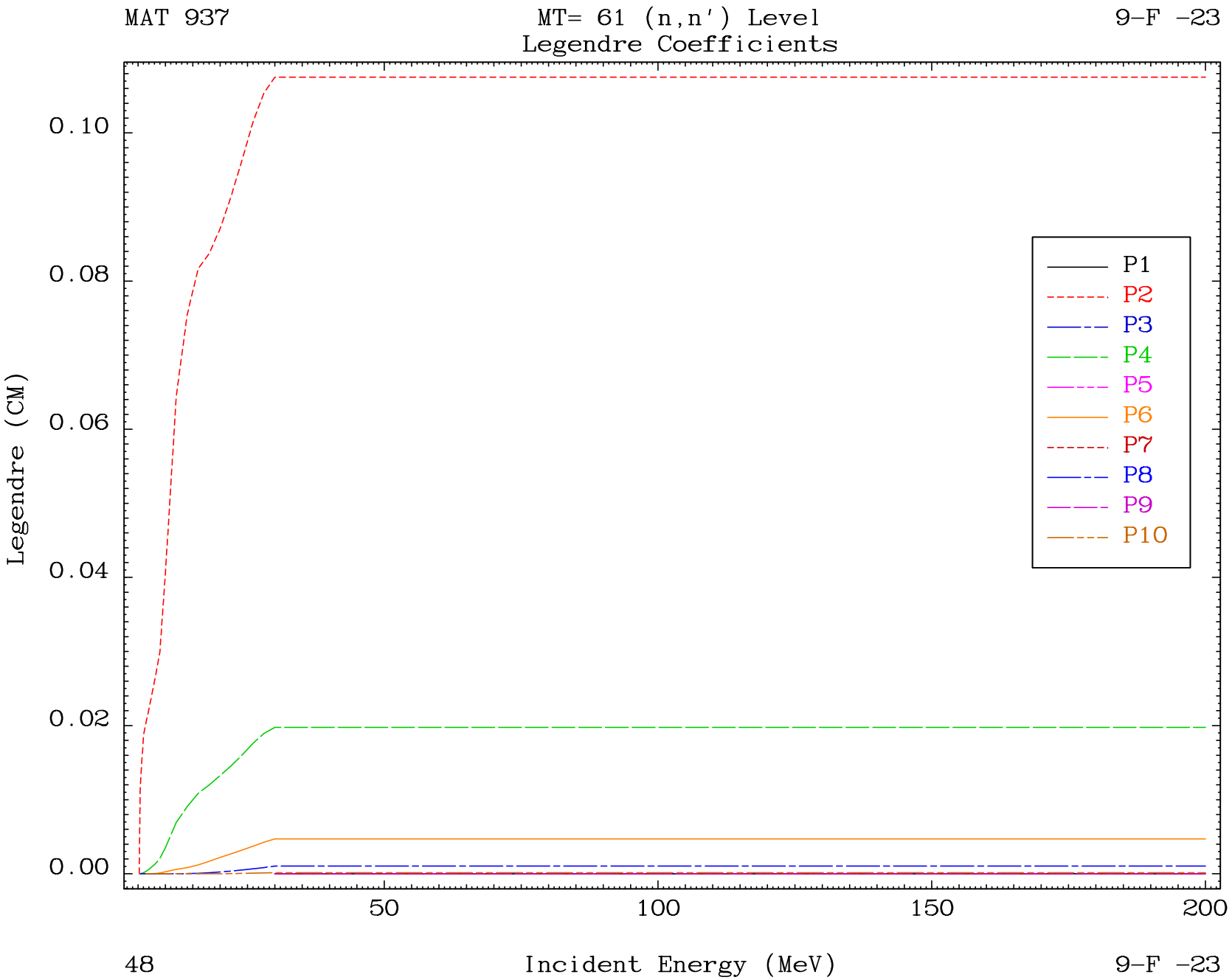

MAT 937
MT= 59 (n,n') Level
Legendre Coefficients
9-F -23
X10-5
6
4
2
0
Legendre (CM)
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
50
100
150
200
43
Incident Energy (MeV)
9-F -23

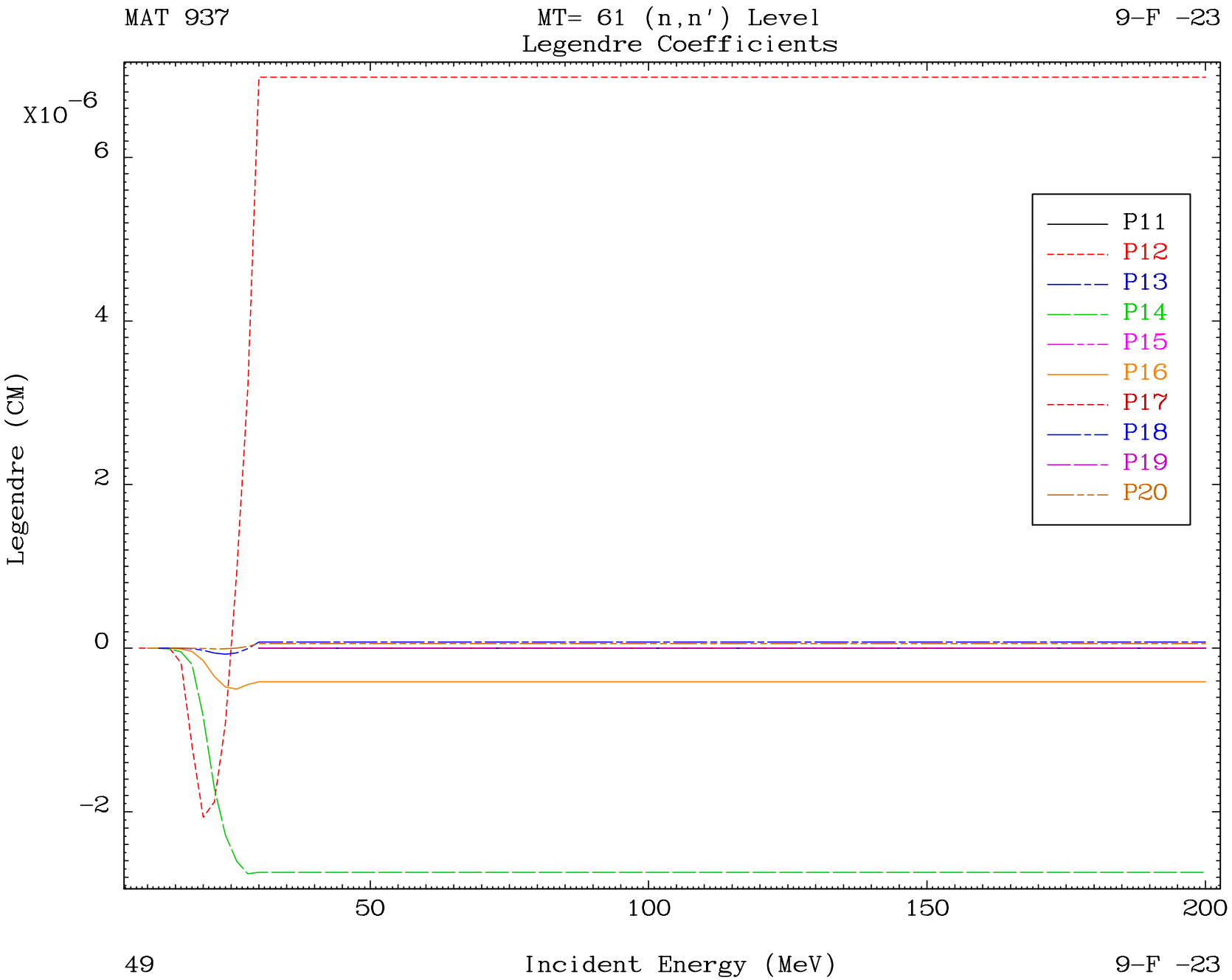

MAT 937
MT= 59 (n,n') Level
Legendre Coefficients
9-F -23
X10 -8
5
4
3
2
1
0
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
50
100
150
200
44
Incident Energy (MeV)
9-F -23

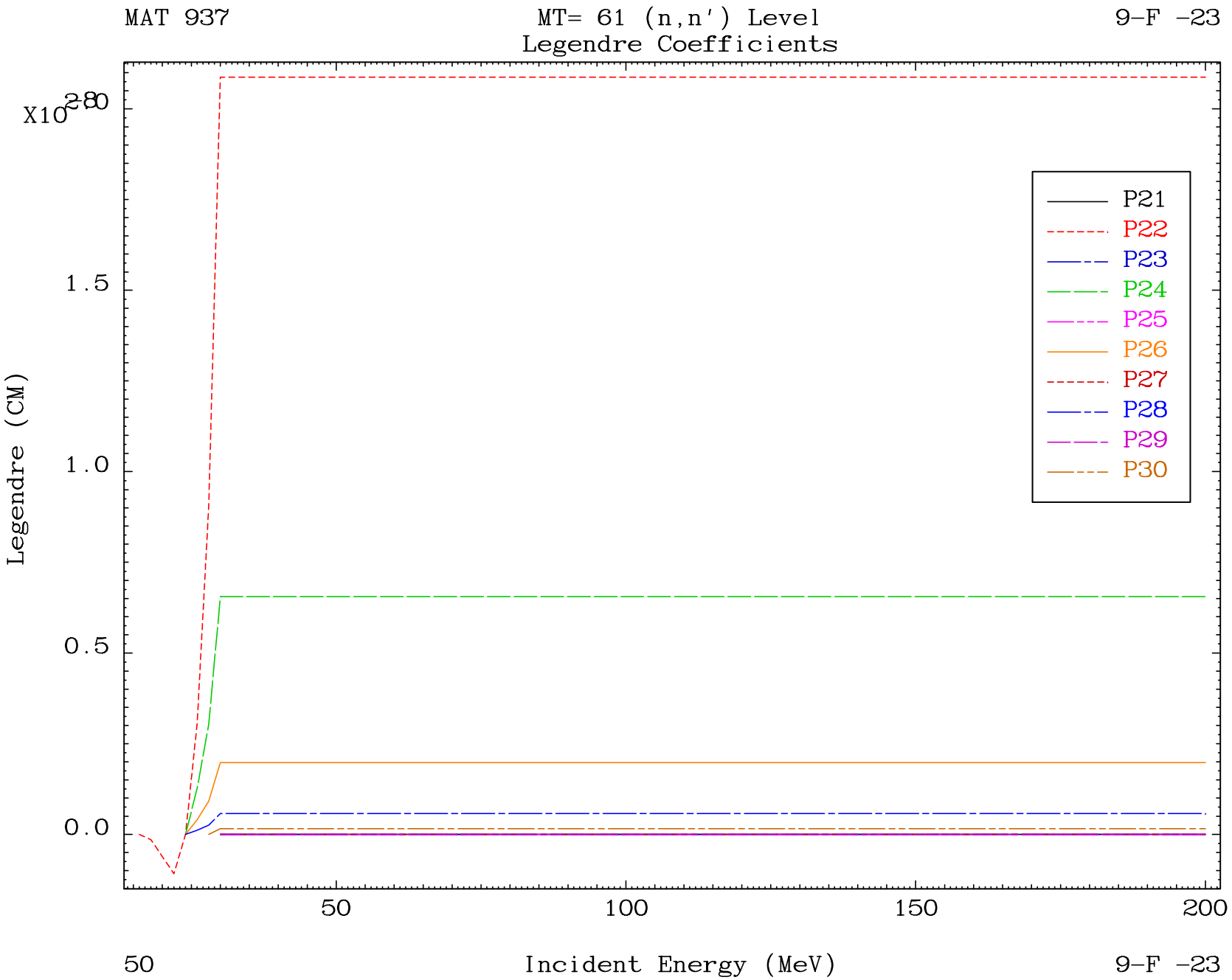

MAT 937
MT= 60 (n,n') Level
Legendre Coefficients
9-F -23
0.10
0.08
0.06
0.04
0.02
0.00
-0.02
Legendre (CM)
50
100
150
200
45
Incident Energy (MeV)
9-F -23
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10

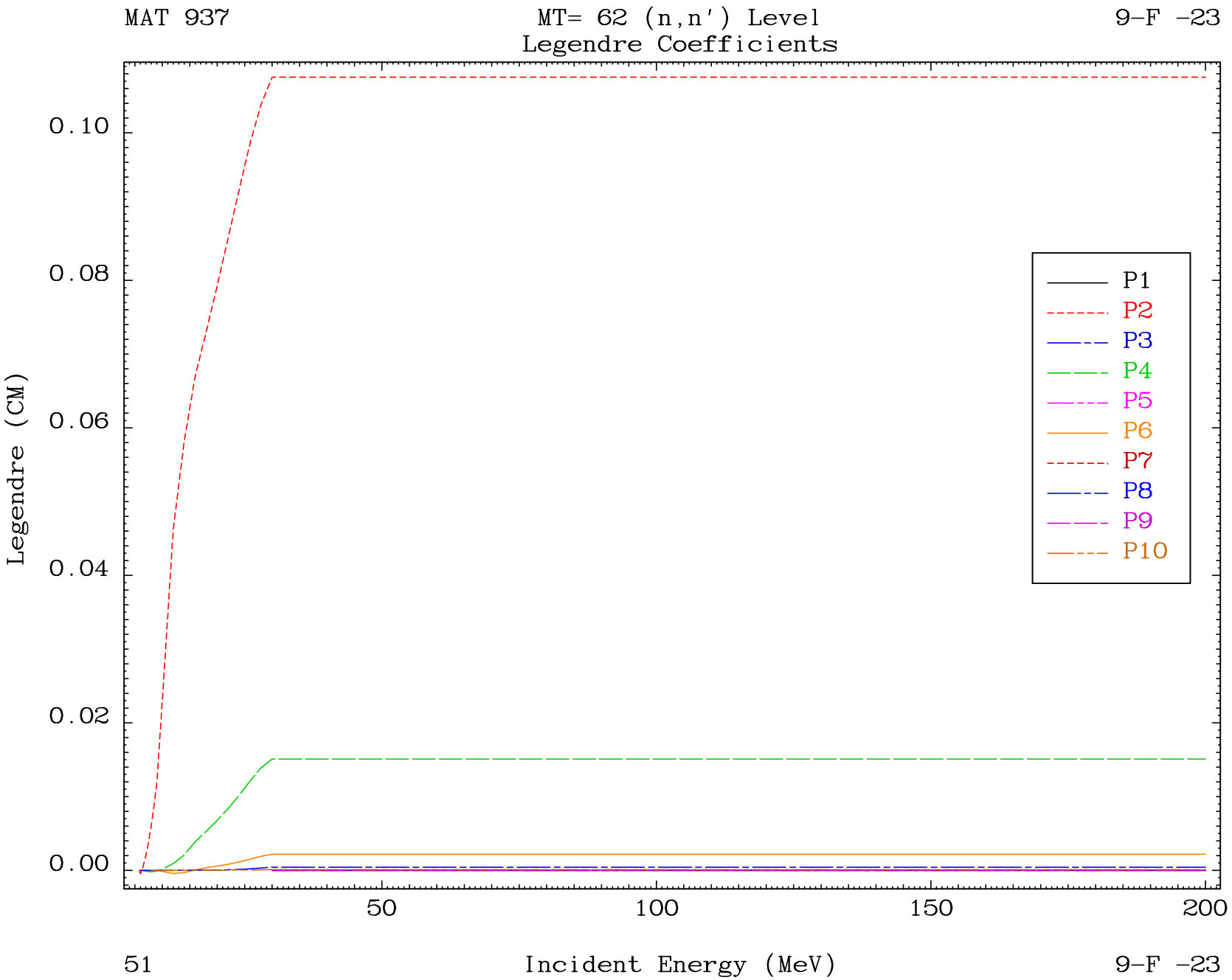

MAT 937
MT= 60 (n,n') Level
Legendre Coefficients
9-F -23
0
X10^-5
-1
-2
-3
Legendre (CM)
50
100
150
200
46
Incident Energy (MeV)
9-F -23
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20

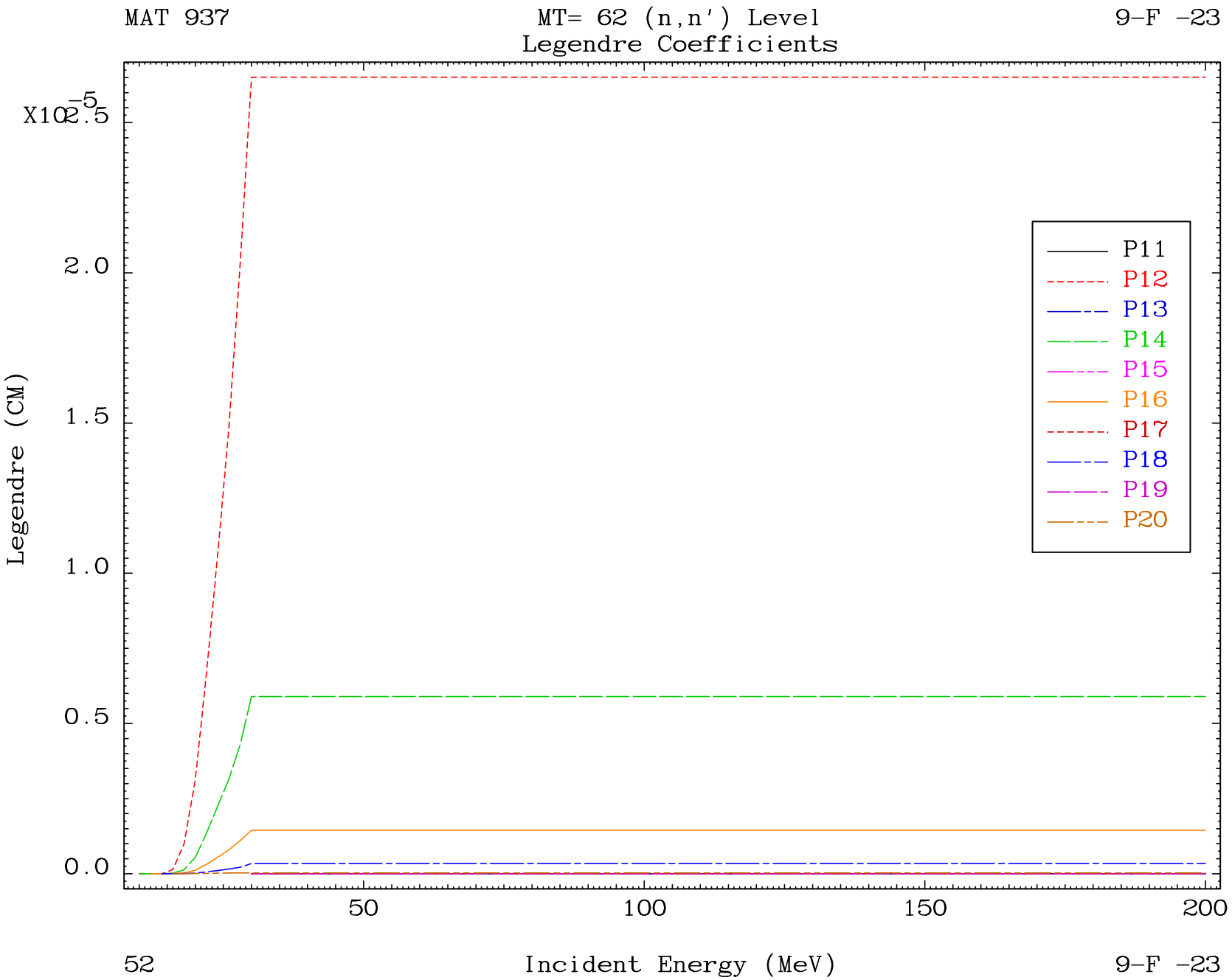

MAT 937
MT= 60 (n,n') Level
Legendre Coefficients
9-F -23
0
X10 -8
-2
-4
-6
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
50
100
150
200
47
Incident Energy (MeV)
9-F -23

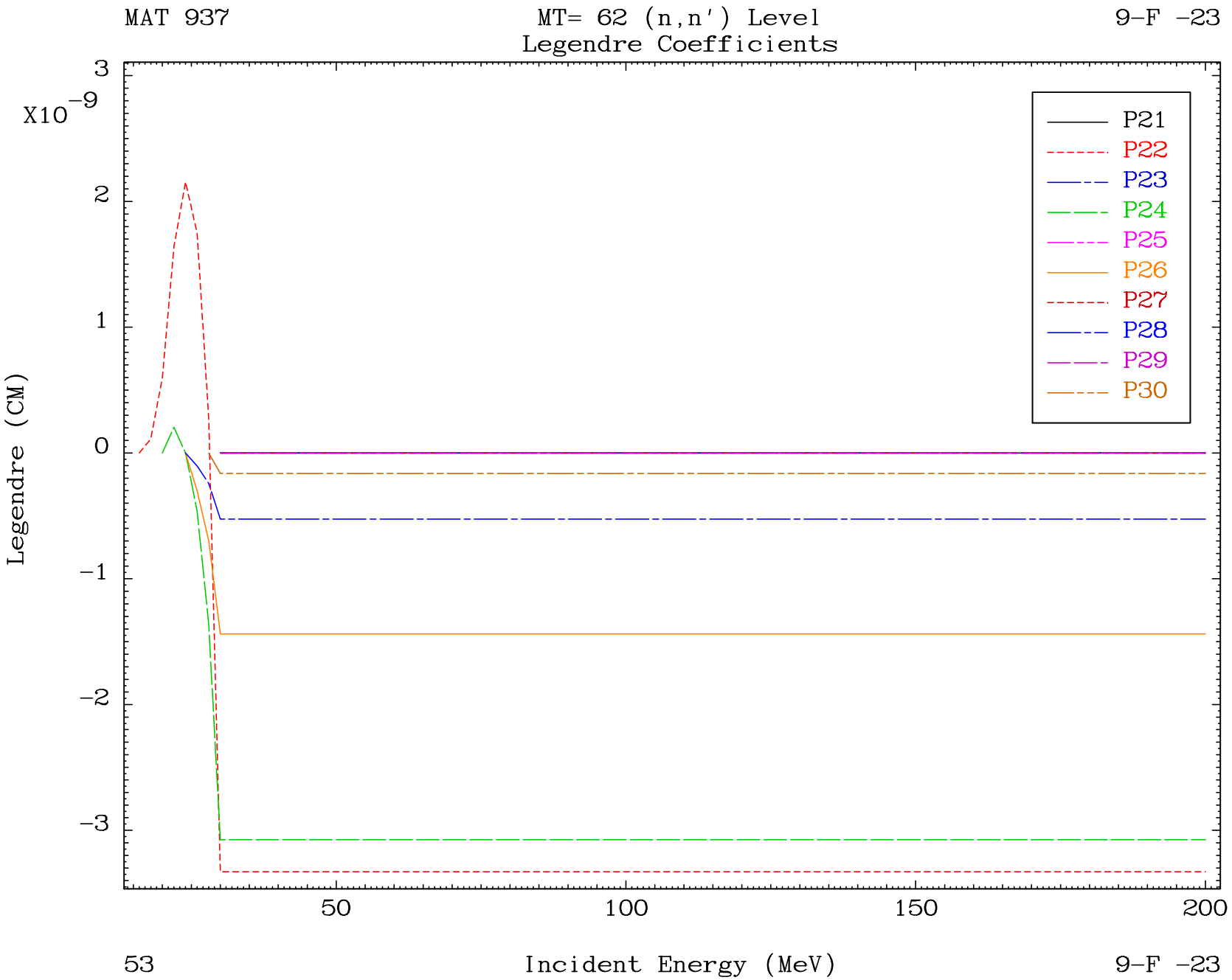

MAT 937
MT= 61 (n,n') Level
Legendre Coefficients
9-F -23
0.10
0.08
0.06
0.04
0.02
0.00
Legendre (CM)
50
100
150
200
48
Incident Energy (MeV)
9-F -23
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10

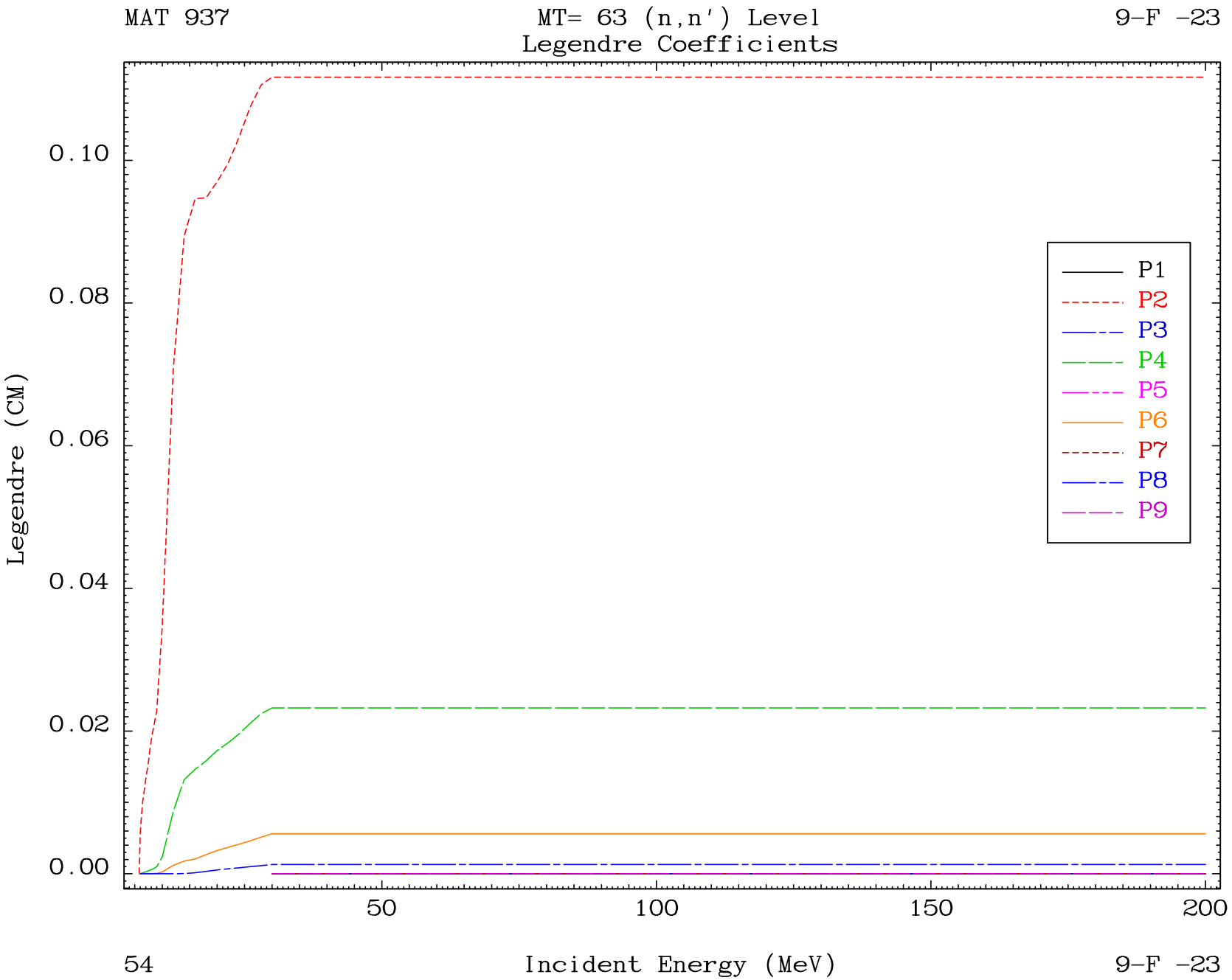

MAT 937
MT= 61 (n,n') Level
Legendre Coefficients
9-F -23
X10^-6
6
4
2
0
-2
Legendre (CM)
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
50
100
150
200
49
Incident Energy (MeV)
9-F -23

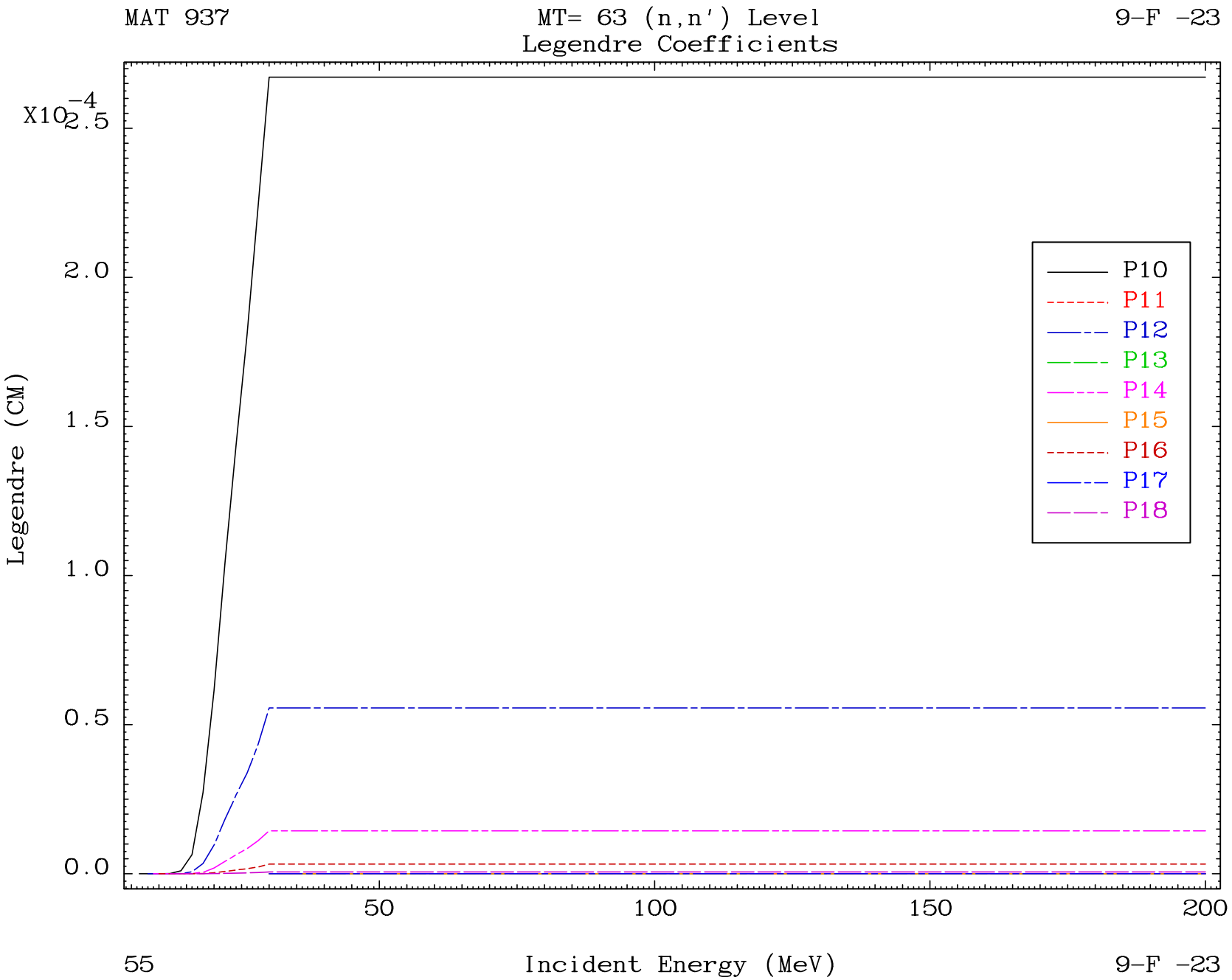

MAT 937
MT= 61 (n,n') Level
Legendre Coefficients
9-F -23
X10-2
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
50
100
150
200
50
Incident Energy (MeV)
9-F -23

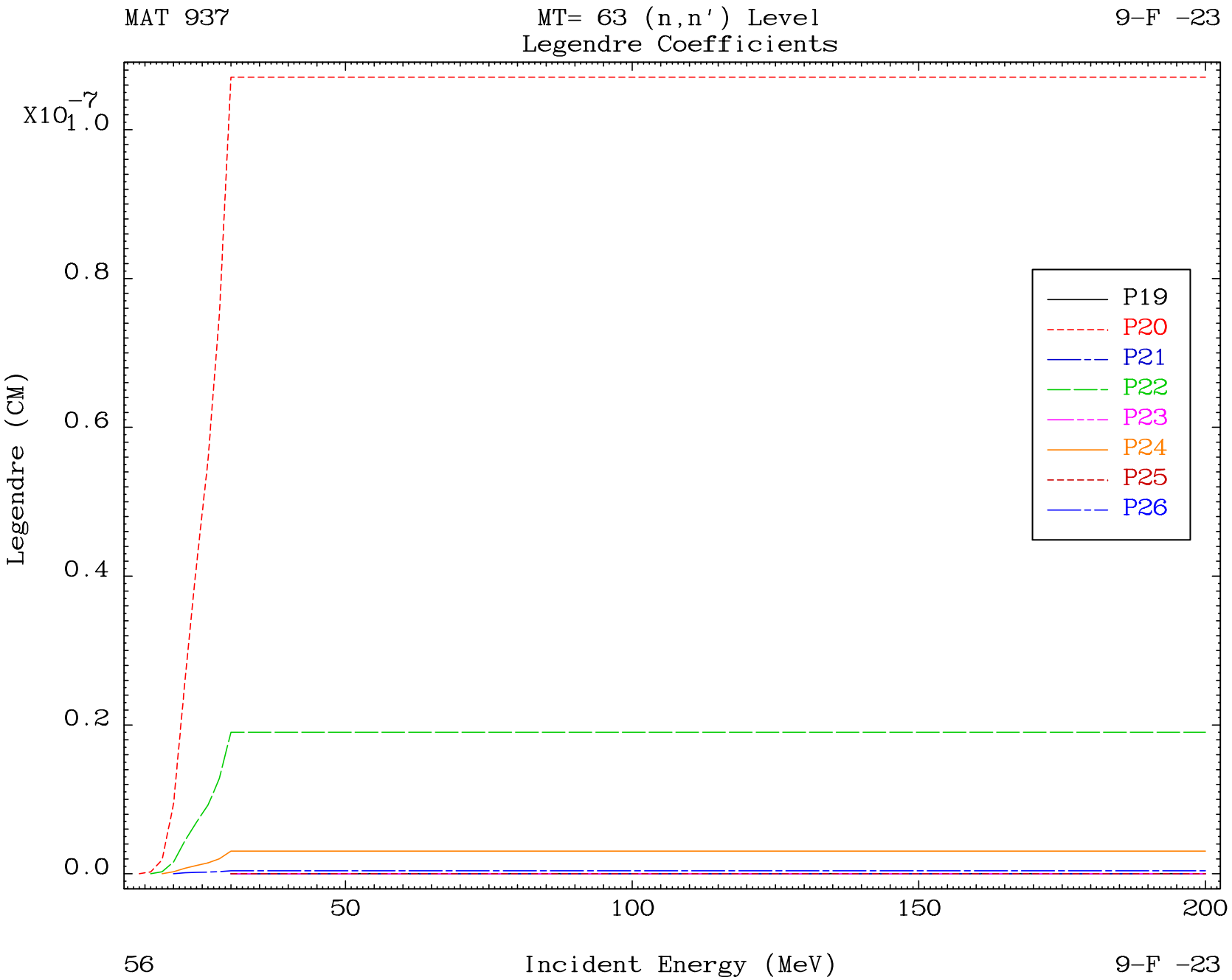

MAT 937
MT= 62 (n,n') Level
Legendre Coefficients
9-F -23
0.10
0.08
0.06
0.04
0.02
0.00
Legendre (CM)
50
100
150
200
51
Incident Energy (MeV)
9-F -23
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10

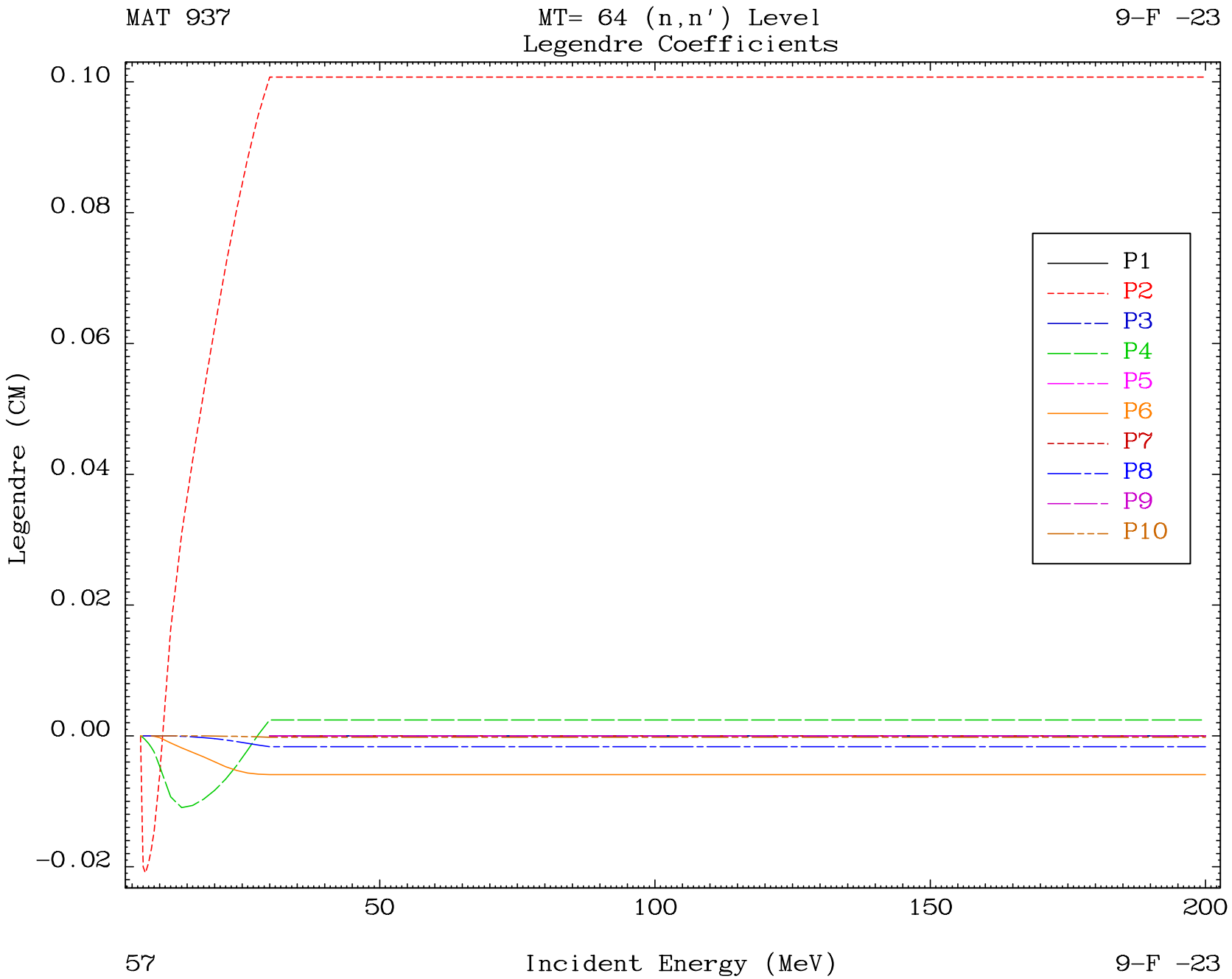

MAT 937
MT= 62 (n,n') Level
Legendre Coefficients
9-F -23
X10^-5
2.5
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
50
100
150
200
52
Incident Energy (MeV)
9-F -23
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20

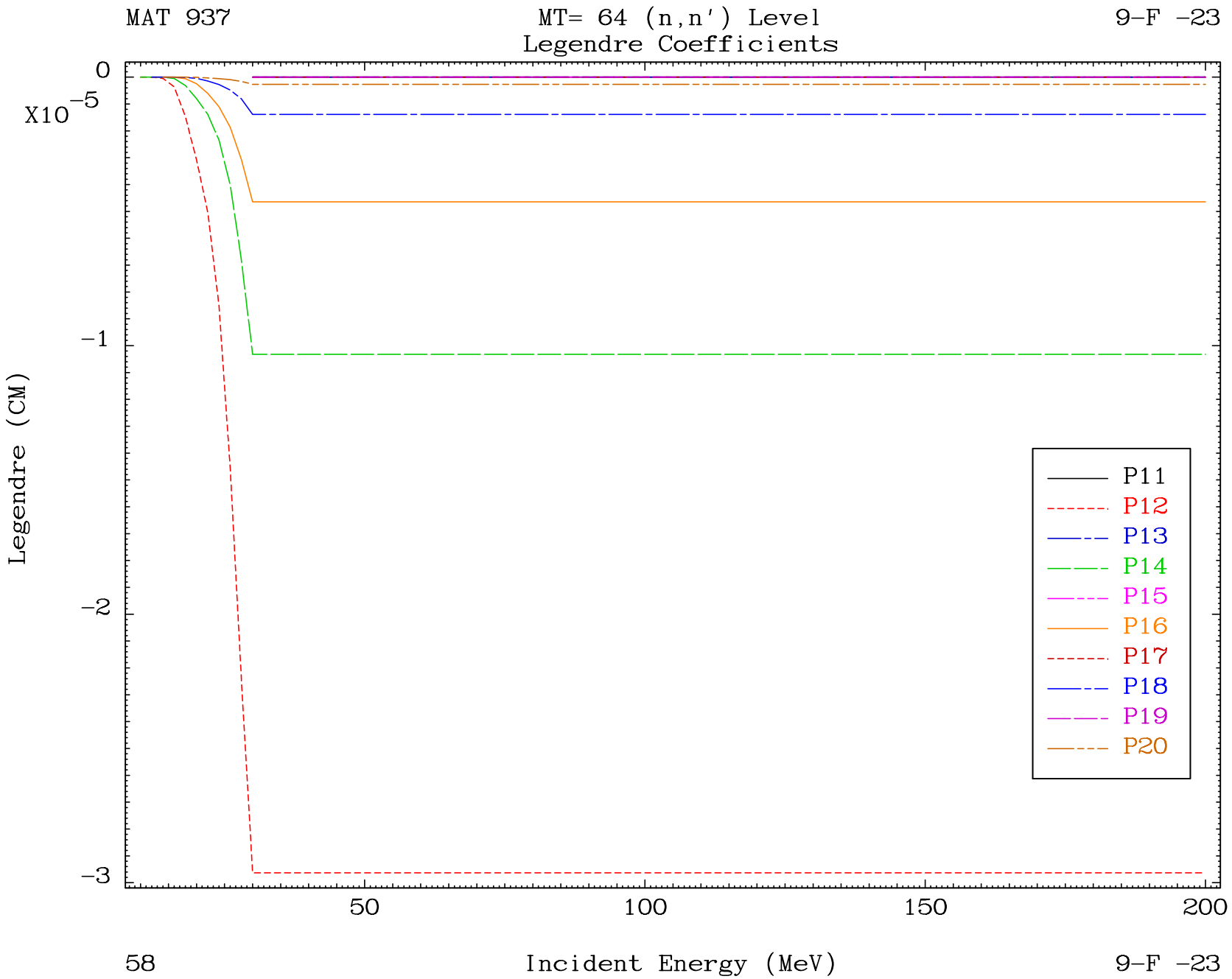

MAT 937
MT= 62 (n,n') Level
Legendre Coefficients
9-F -23
X10 -9
3
2
1
0
-1
-2
-3
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
50
100
150
200
53
Incident Energy (MeV)
9-F -23

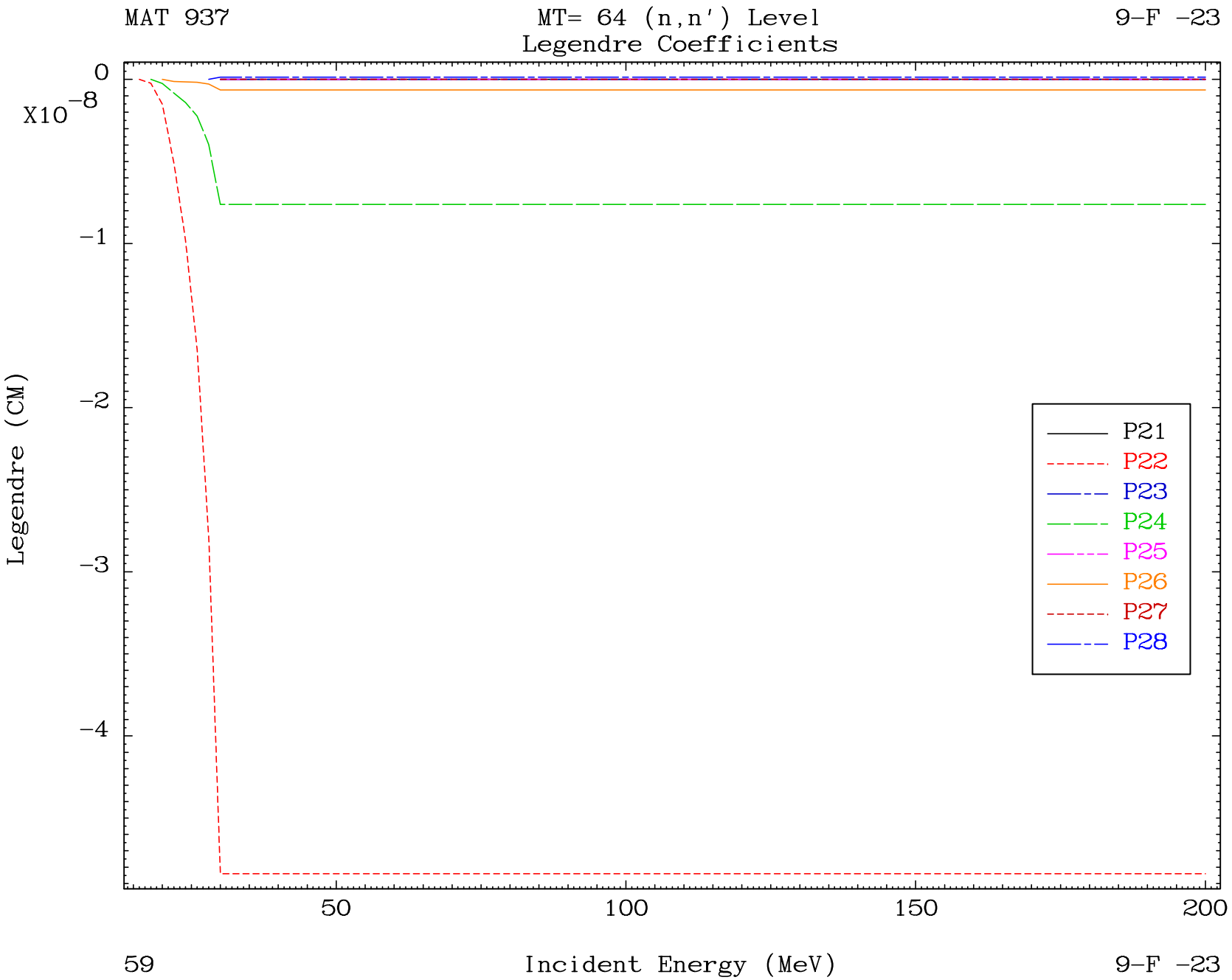

MAT 937
MT= 63 (n,n') Level
Legendre Coefficients
9-F -23
0.10
0.08
0.06
0.04
0.02
0.00
Legendre (CM)
50
100
150
200
54
Incident Energy (MeV)
9-F -23
P1
P2
P3
P4
P5
P6
P7
P8
P9

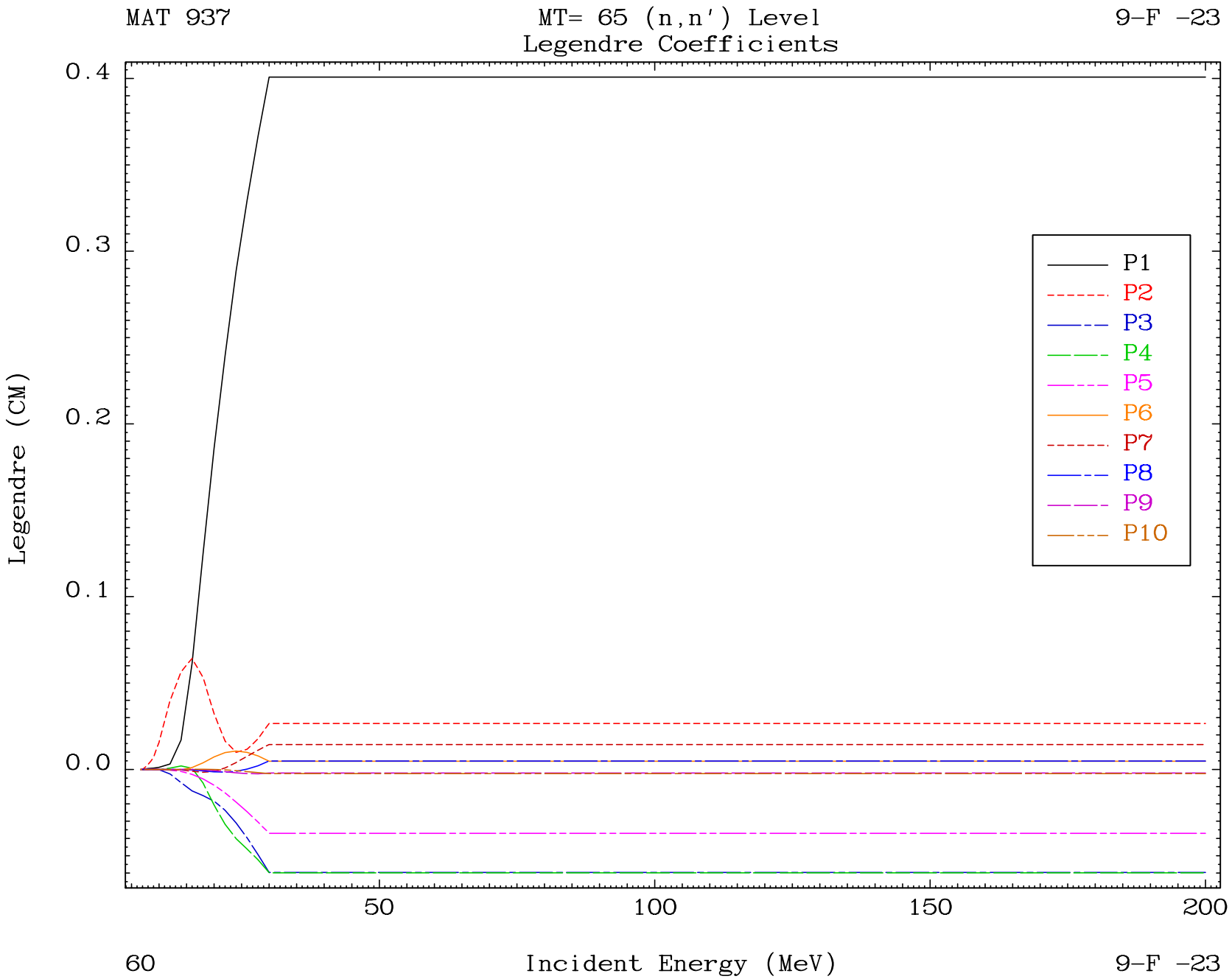

MAT 937
MT= 63 (n,n') Level
Legendre Coefficients
9-F -23
X10-4
2.5
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
50
100
150
200
55
Incident Energy (MeV)
9-F -23

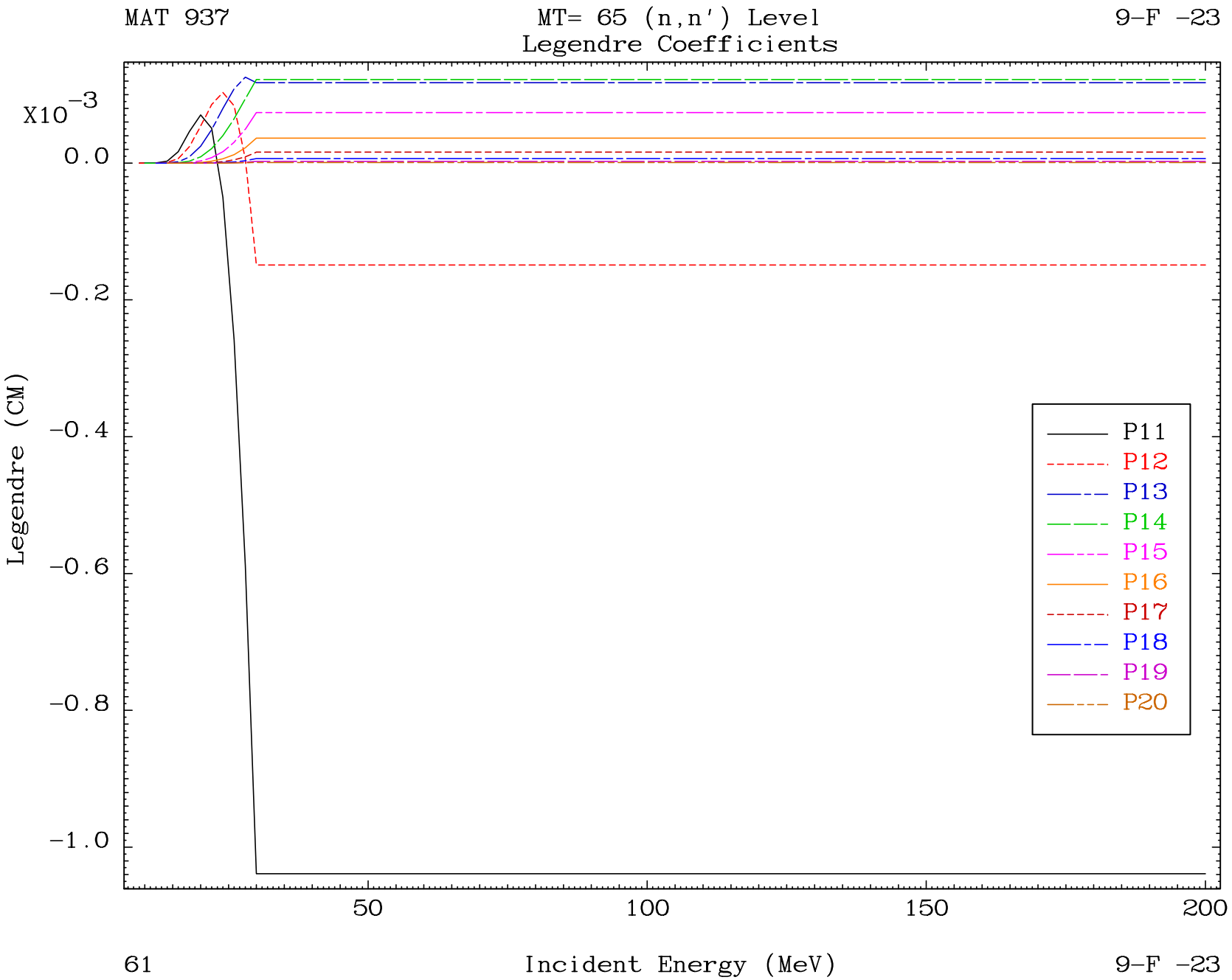

MAT 937
MT= 63 (n,n') Level
Legendre Coefficients
9-F -23
X10-7
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
50
100
150
200
56
Incident Energy (MeV)
9-F -23
P19
P20
P21
P22
P23
P24
P25
P26

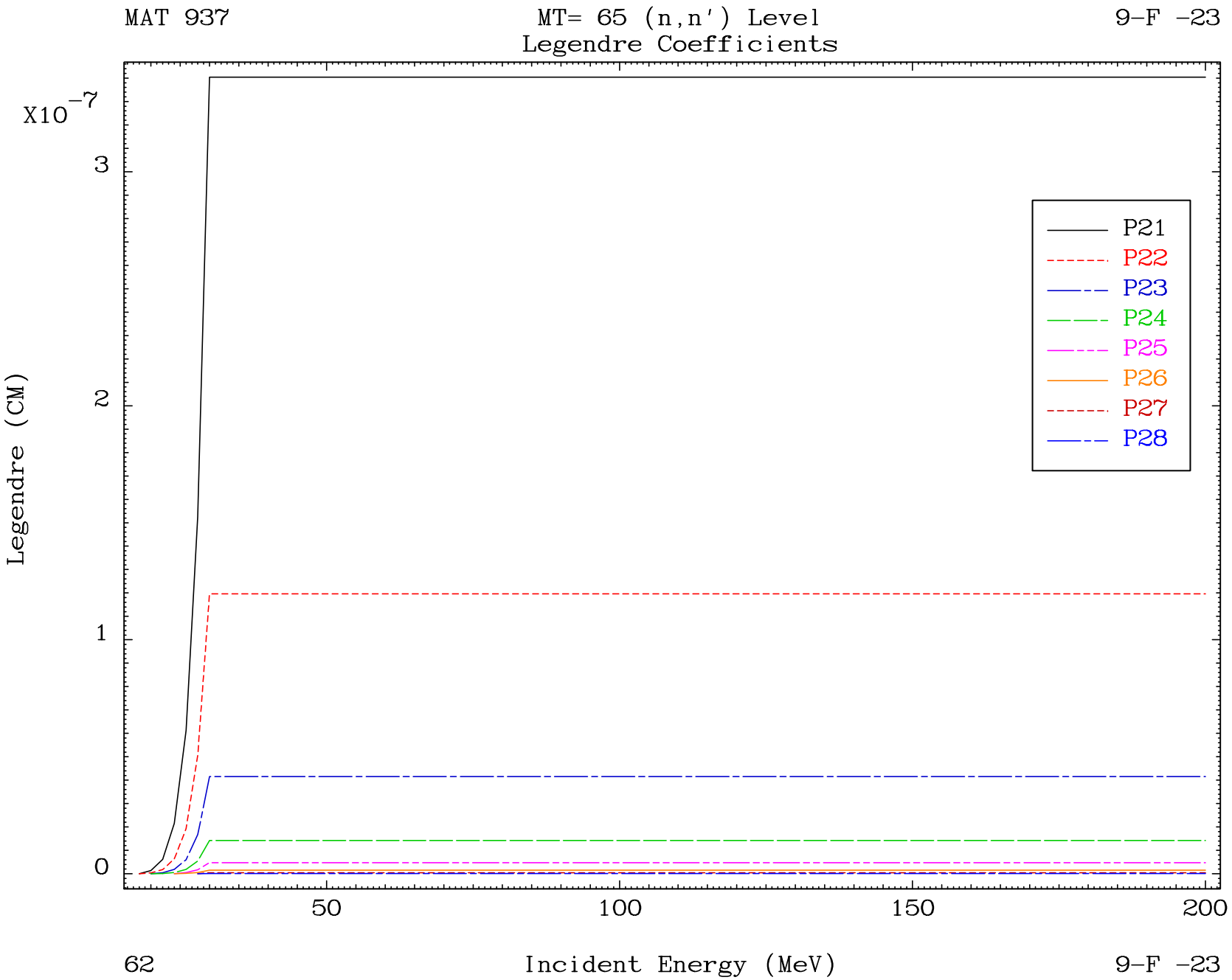

MAT 937
MT= 64 (n,n') Level
Legendre Coefficients
9-F -23
0.10
0.08
0.06
0.04
0.02
0.00
-0.02
Legendre (CM)
50
100
150
200
57
Incident Energy (MeV)
9-F -23
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10

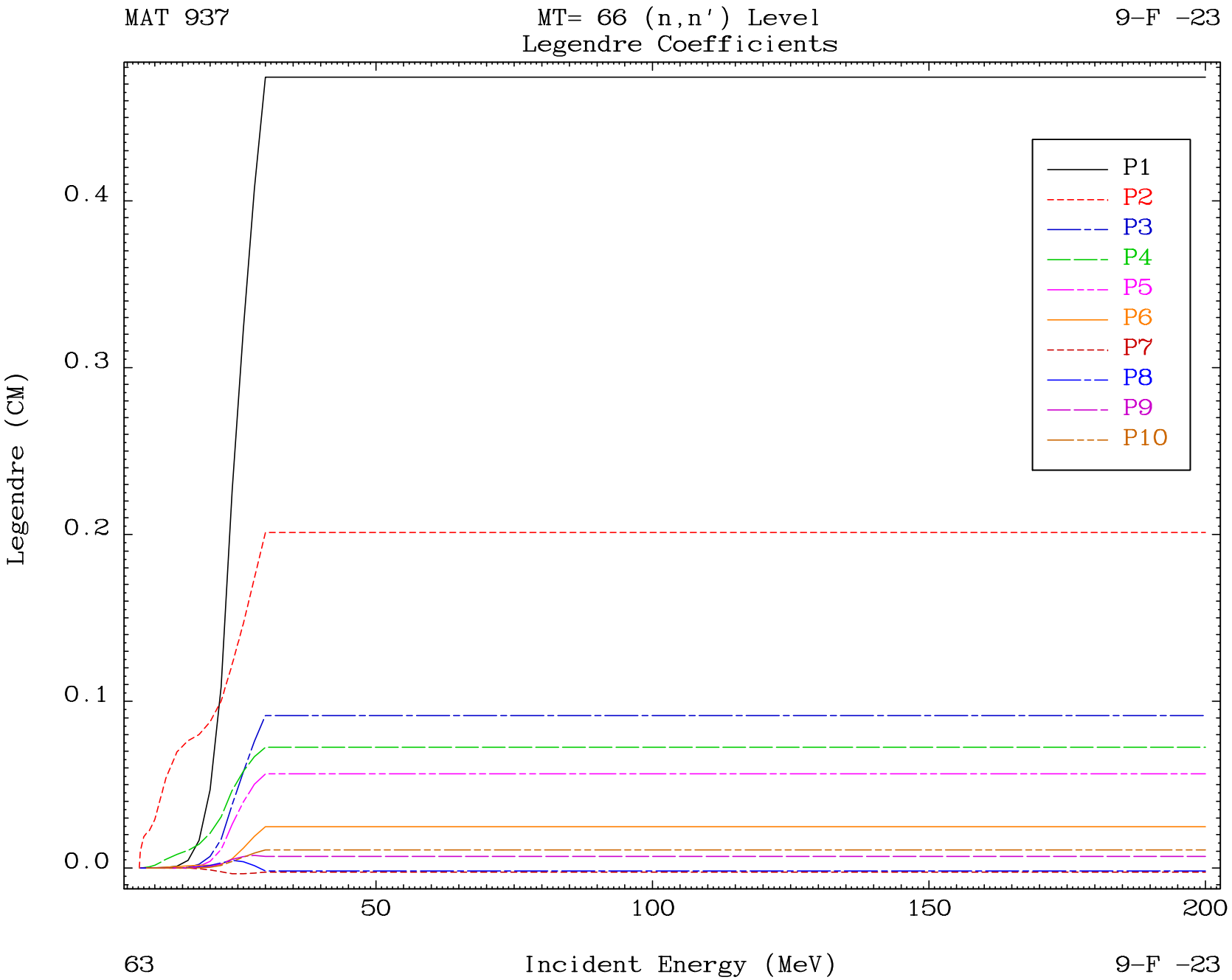

MAT 937
MT= 64 (n,n') Level
Legendre Coefficients
9-F -23
0
X10-5
-1
-2
-3
Legendre (CM)
50
100
150
200
58
Incident Energy (MeV)
9-F -23
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20

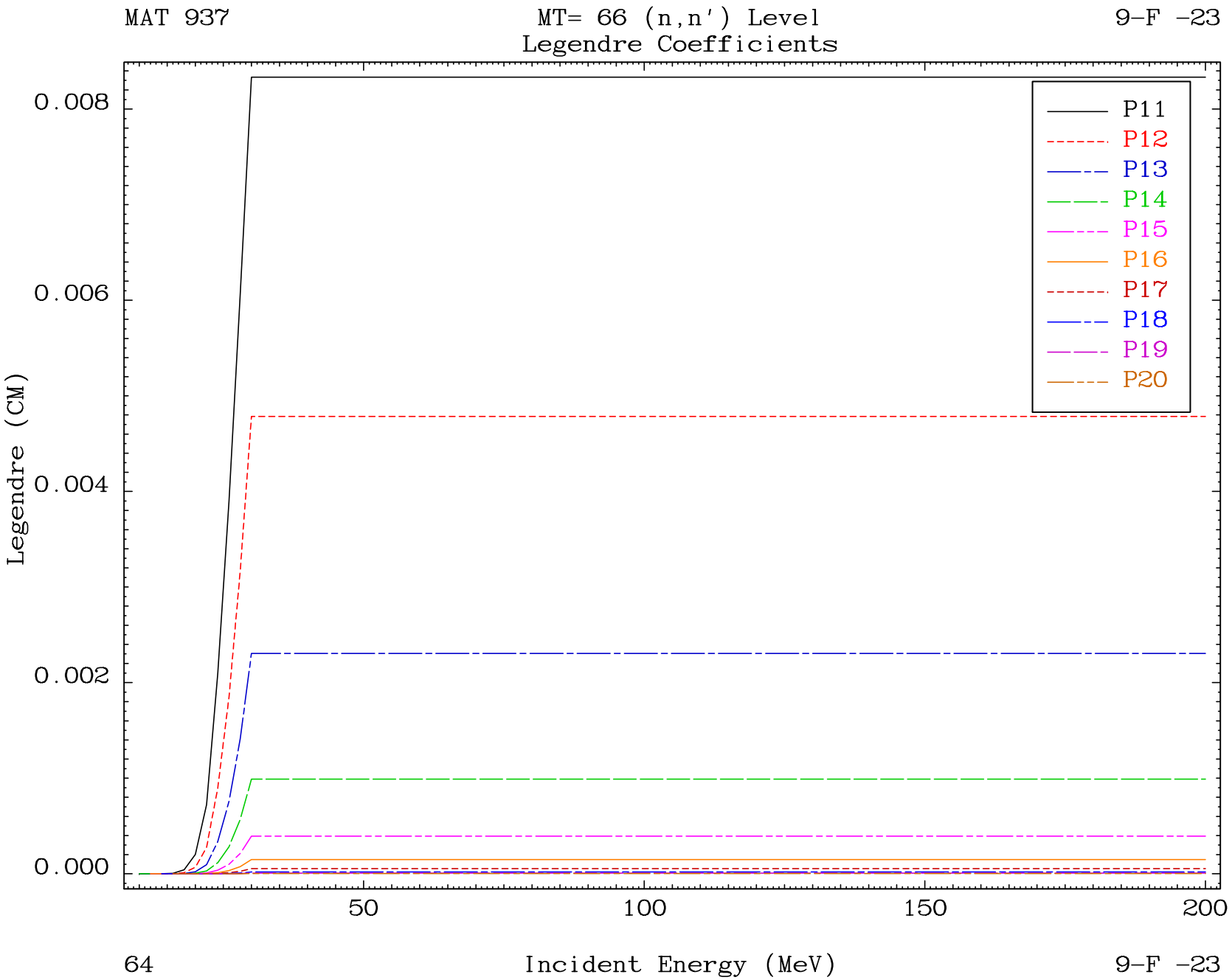

MAT 937
MT= 64 (n,n') Level
Legendre Coefficients
9-F -23
0
X10 -8
-1
-2
-3
-4
Legendre (CM)
50
100
150
200
P21
P22
P23
P24
P25
P26
P27
P28
59
Incident Energy (MeV)
9-F -23

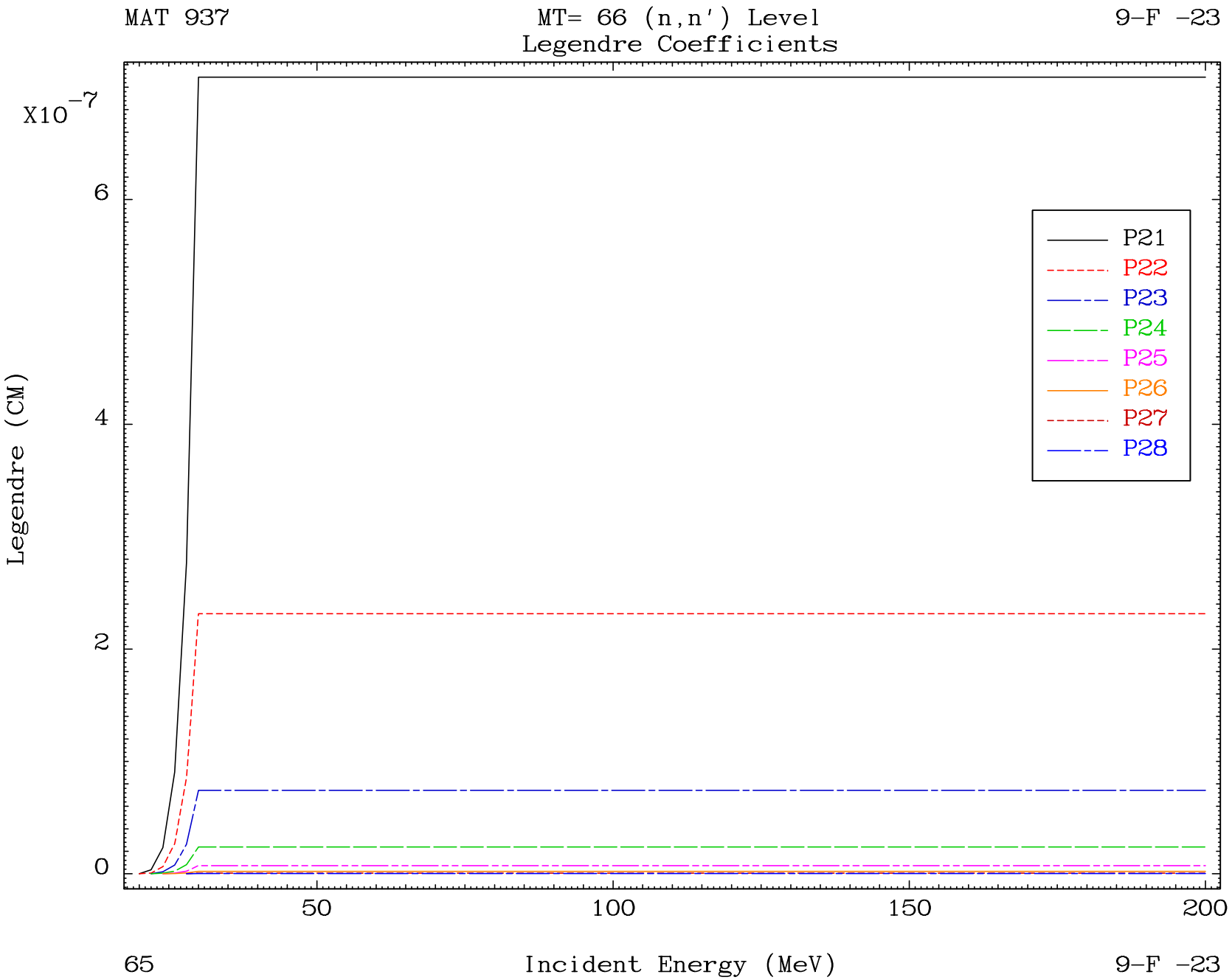

MAT 937
MT= 65 (n,n') Level
Legendre Coefficients
9-F -23
0.4
0.3
0.2
0.1
0.0
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
50
100
150
200
60
Incident Energy (MeV)
9-F -23

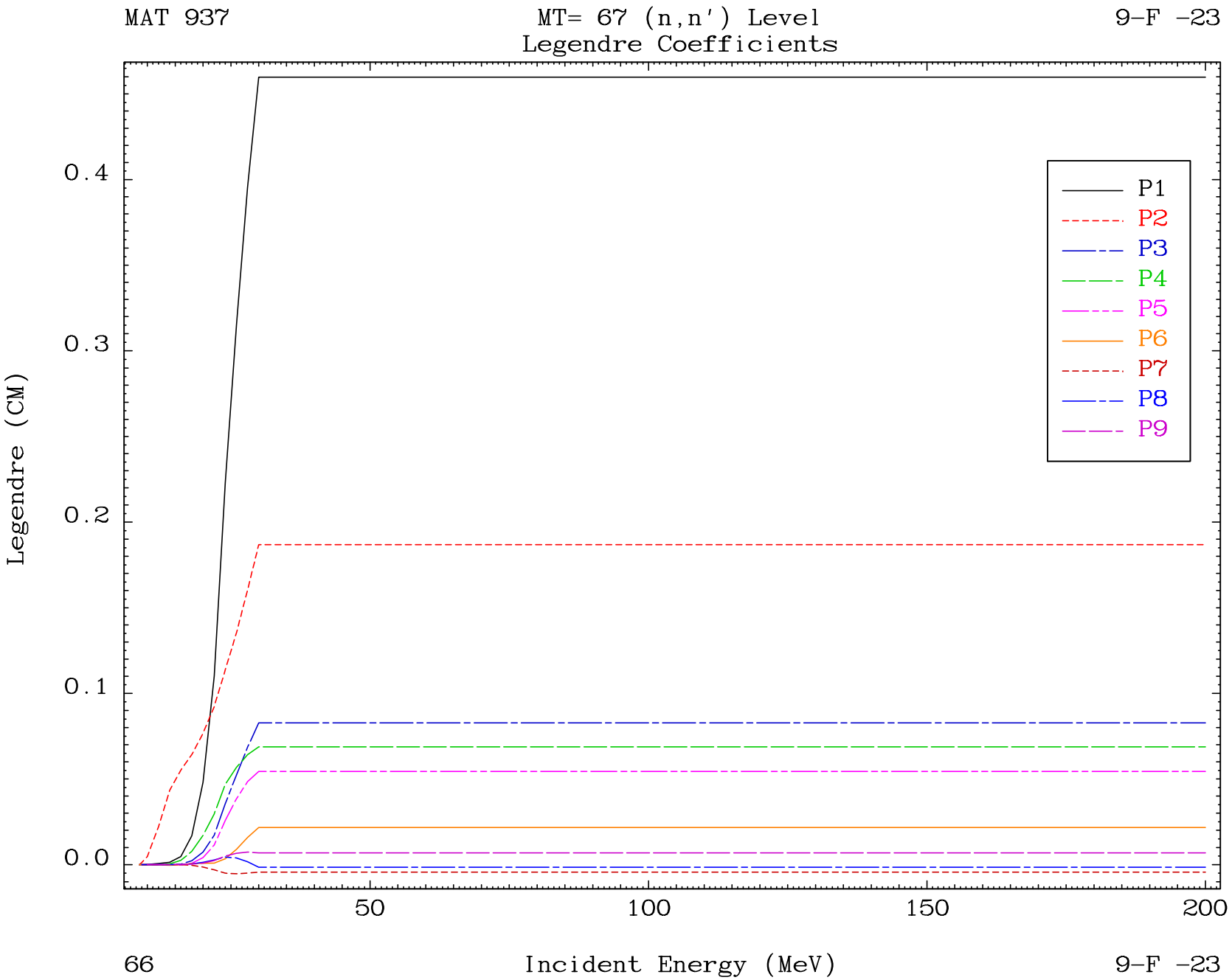

MAT 937
MT= 65 (n,n') Level
Legendre Coefficients
9-F -23
X10^-3
0.0
-0.2
-0.4
-0.6
-0.8
-1.0
Legendre (CM)
50
100
150
200
61
Incident Energy (MeV)
9-F -23
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20

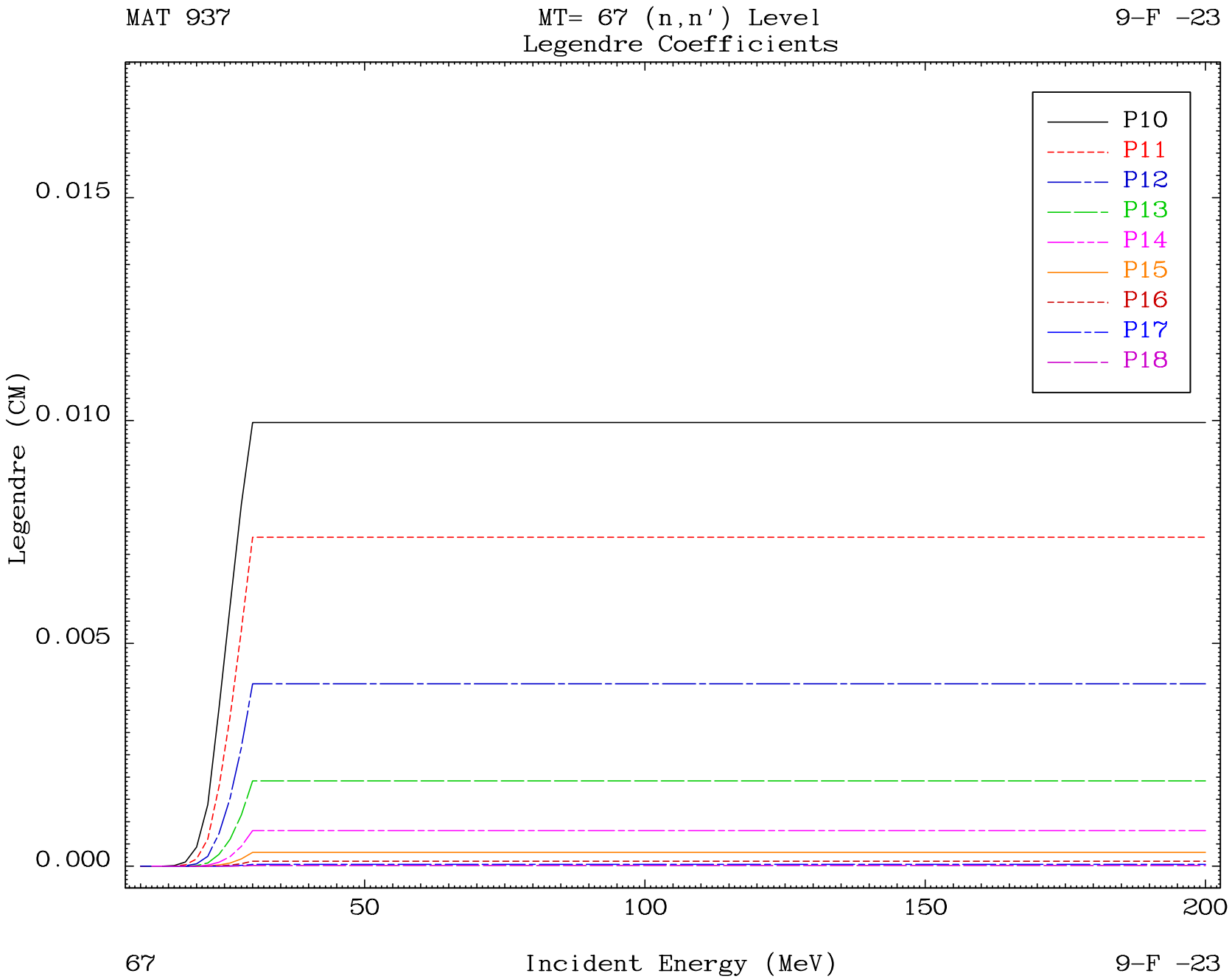

MAT 937
MT= 65 (n,n') Level
Legendre Coefficients
9-F -23
X10-7
3
2
1
0
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
50
100
150
200
62
Incident Energy (MeV)
9-F -23

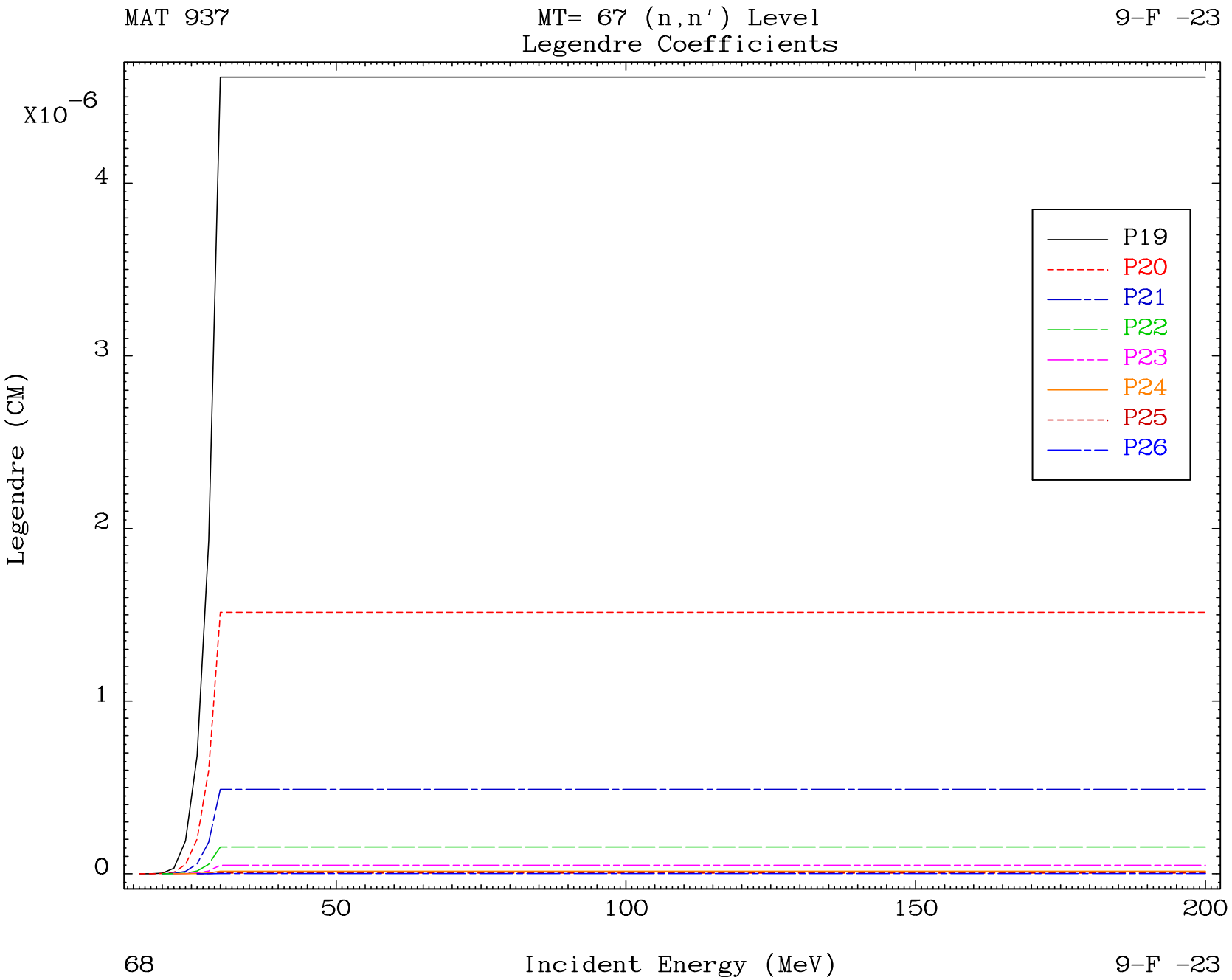

MAT 937
MT= 66 (n,n') Level
Legendre Coefficients
9-F -23
Legendre (CM)
0.0
0.1
0.2
0.3
0.4
50
100
150
200
Incident Energy (MeV)
63
9-F -23
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10

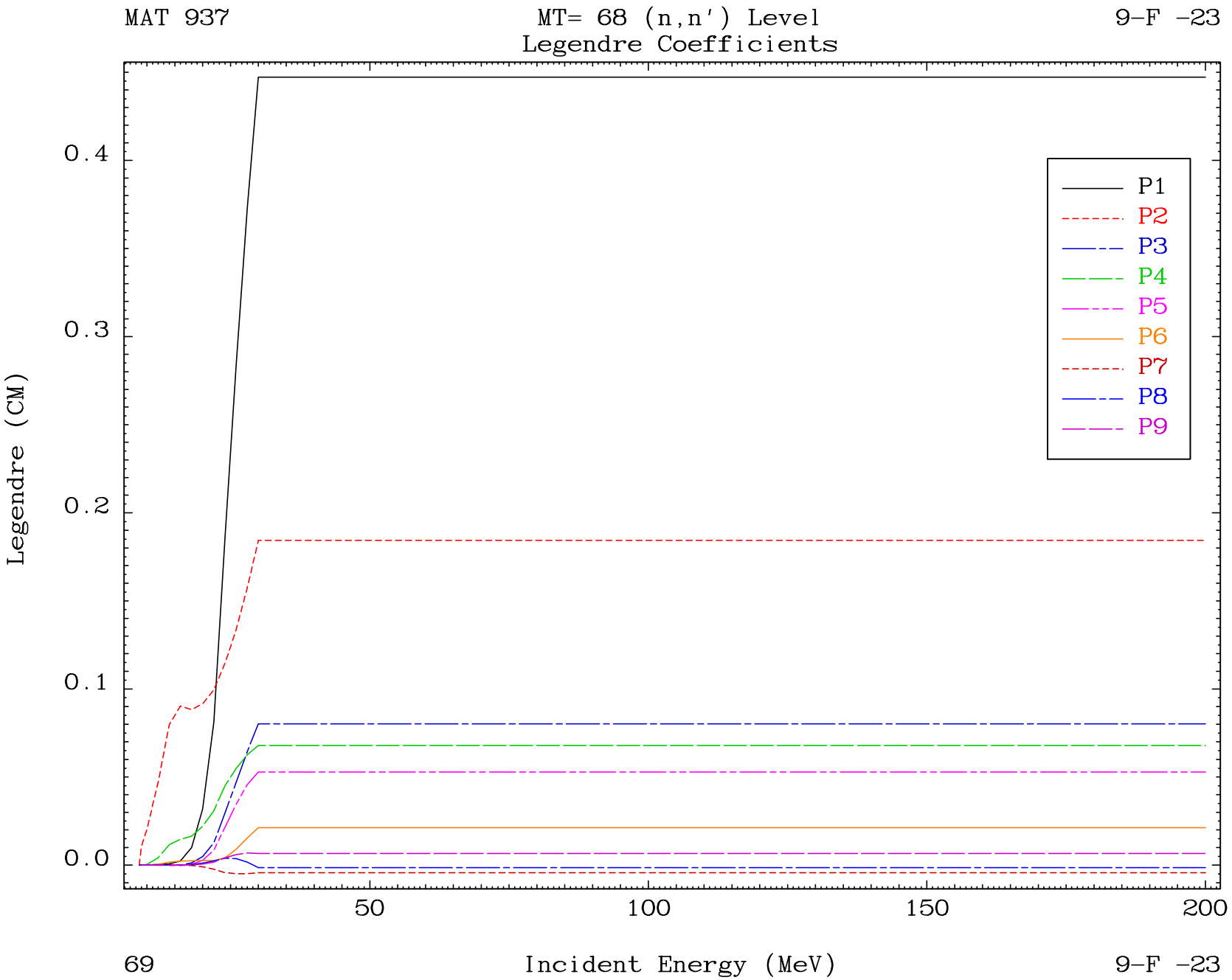

MAT 937
MT= 66 (n,n') Level
Legendre Coefficients
9-F -23
0.008
0.006
0.004
0.002
0.000
Legendre (CM)
50
100
150
200
64
Incident Energy (MeV)
9-F -23
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20

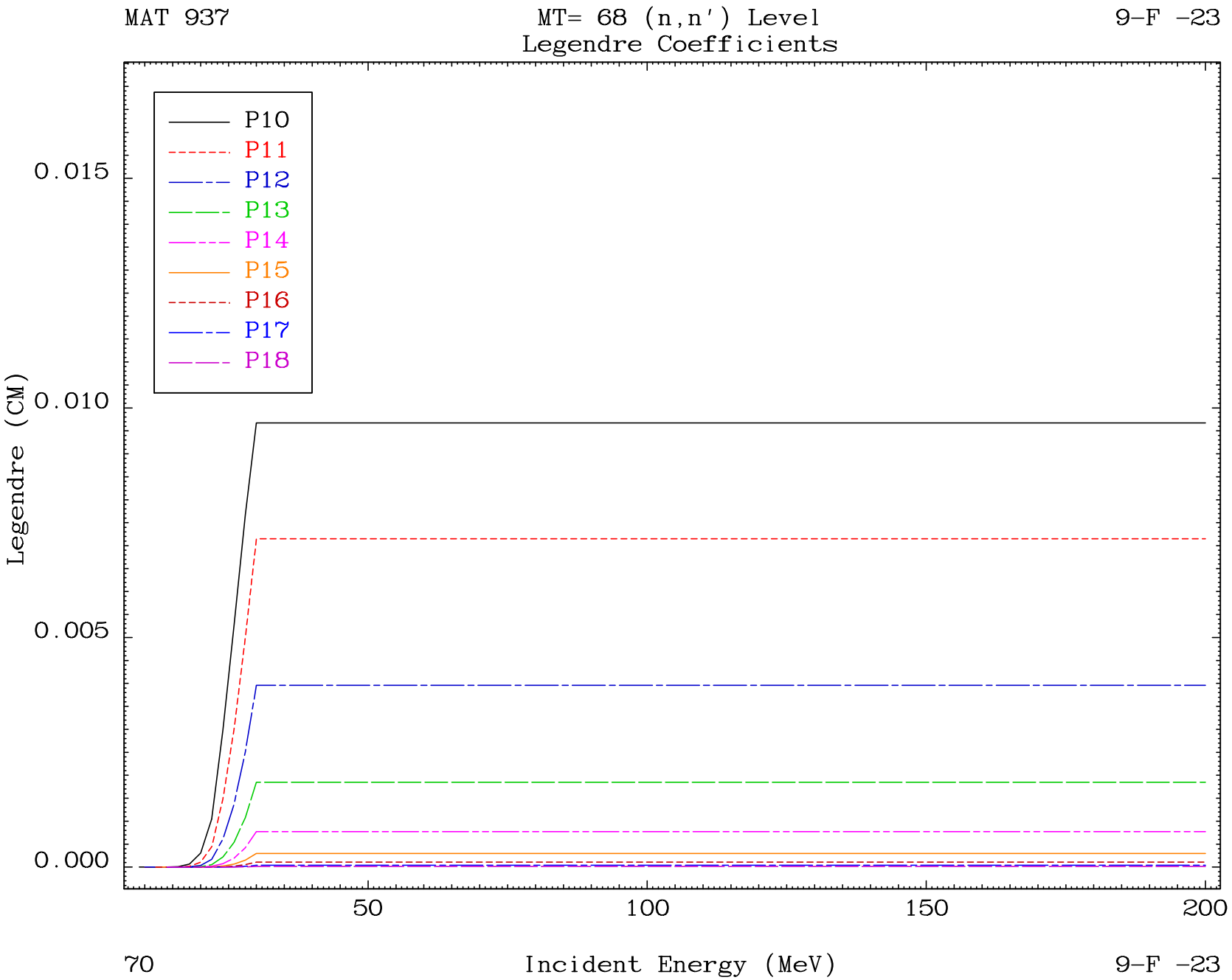

MAT 937
MT= 66 (n,n') Level
Legendre Coefficients
9-F -23
X10-7
6
4
2
0
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
50
100
150
200
65
Incident Energy (MeV)
9-F -23

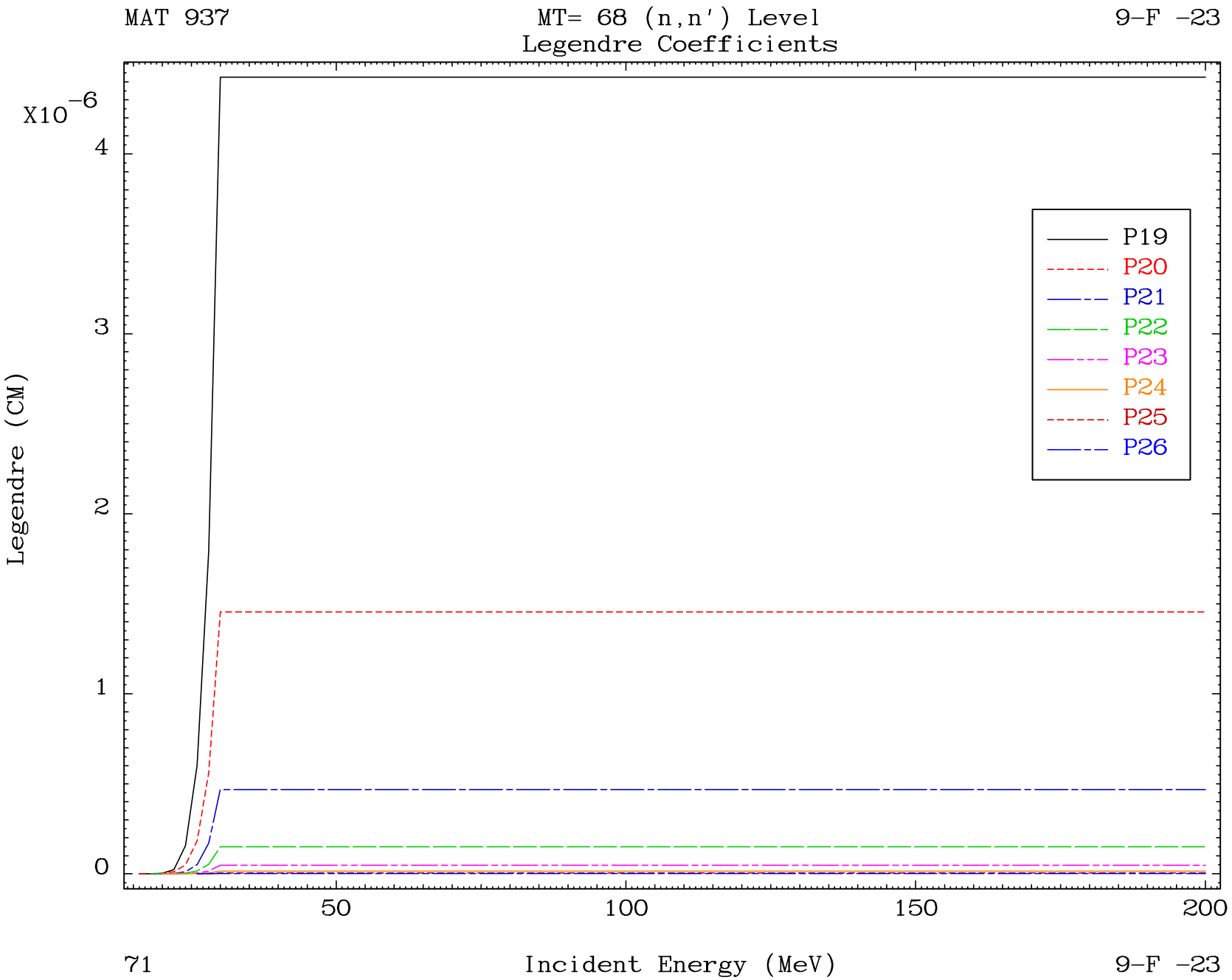

MAT 937
MT= 67 (n,n') Level
Legendre Coefficients
9-F -23
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
66
Incident Energy (MeV)
9-F -23

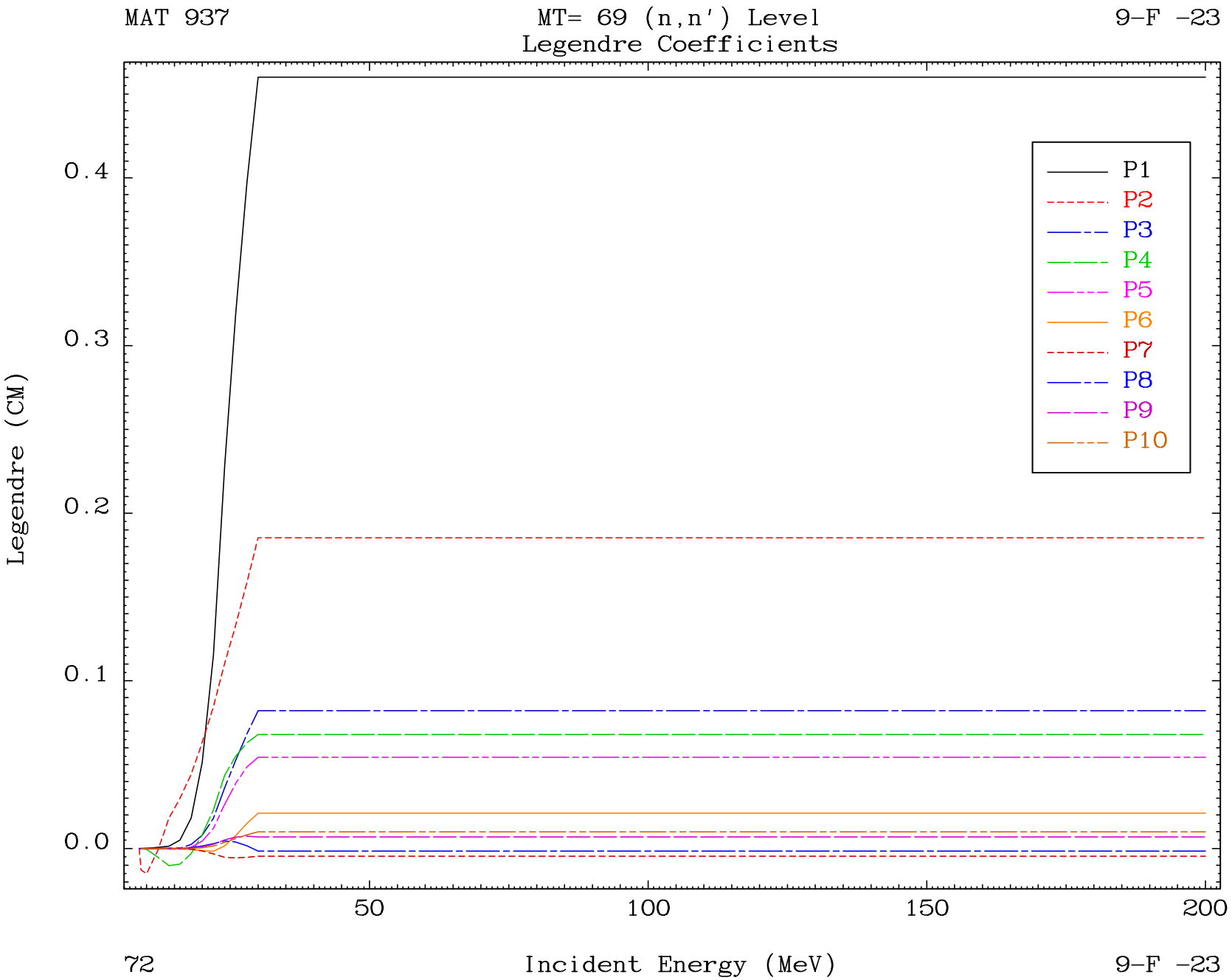

MAT 937
MT= 67 (n,n') Level
Legendre Coefficients
9-F -23
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.015
0.010
0.005
0.000
Legendre (CM)
50
100
150
200
67
Incident Energy (MeV)
9-F -23

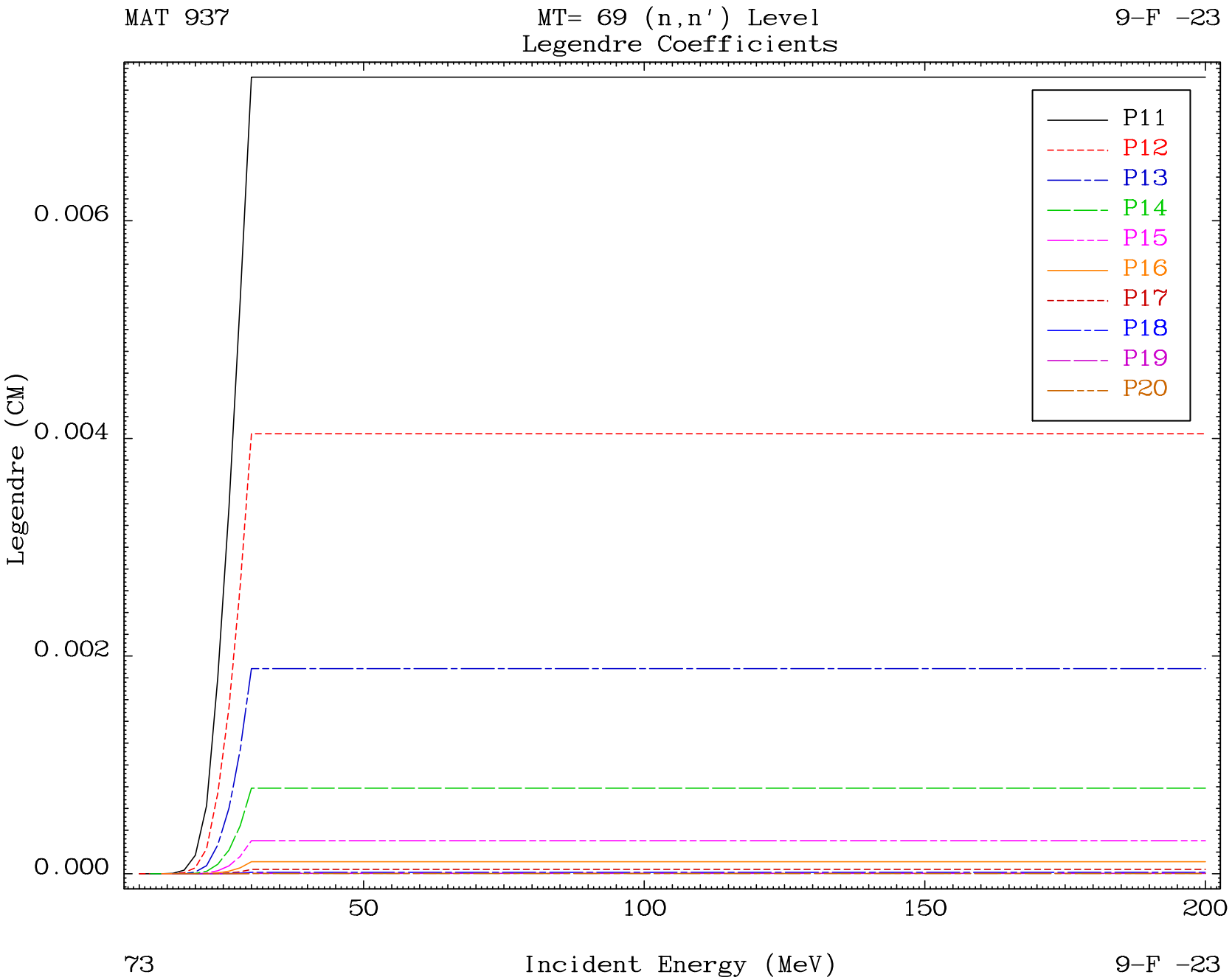

MAT 937
MT= 67 (n,n') Level
Legendre Coefficients
9-F -23
X10-6
4
3
2
1
0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
50
100
150
200
68
Incident Energy (MeV)
9-F -23

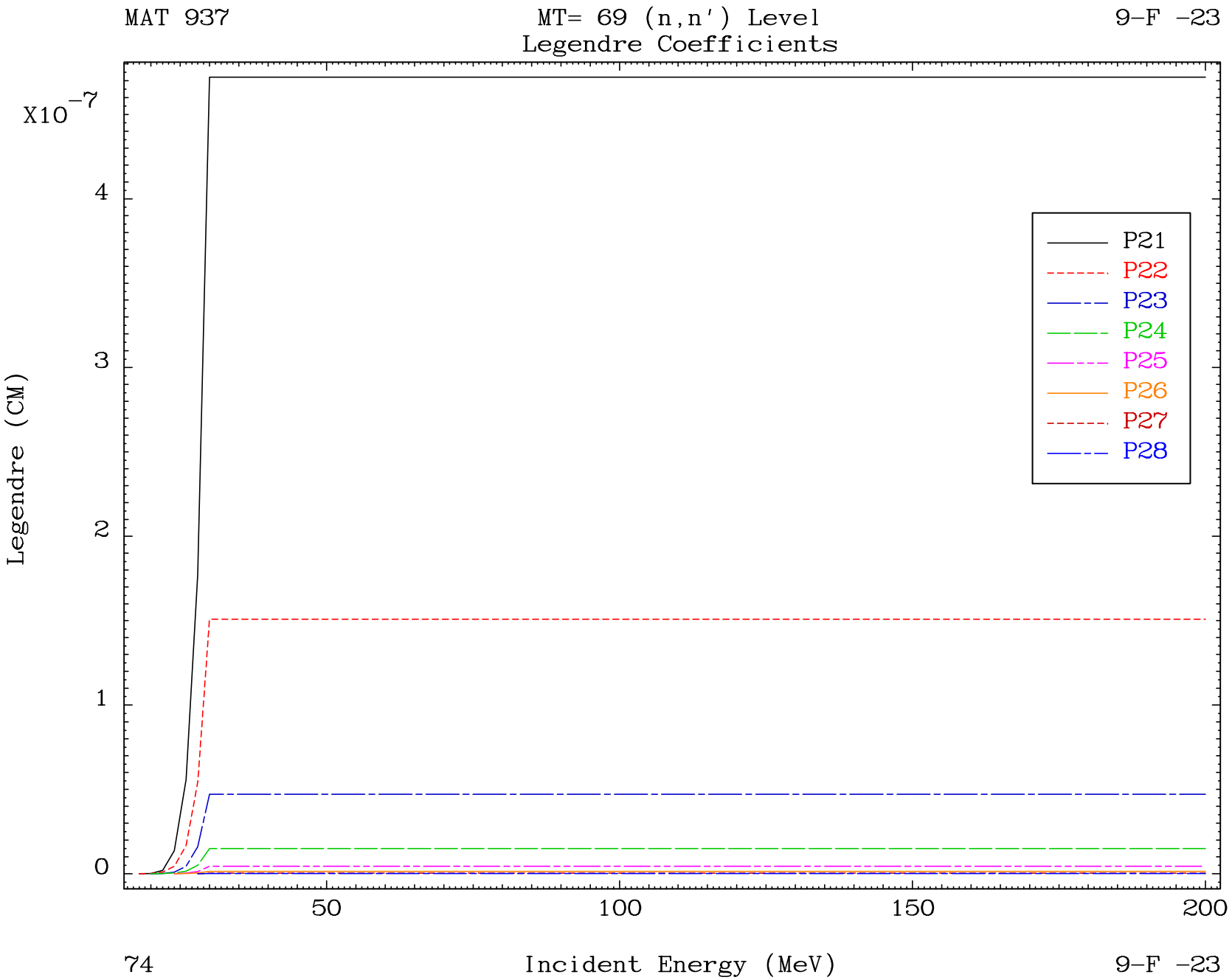

MAT 937
MT= 68 (n,n') Level
Legendre Coefficients
9-F -23
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
69
Incident Energy (MeV)
9-F -23

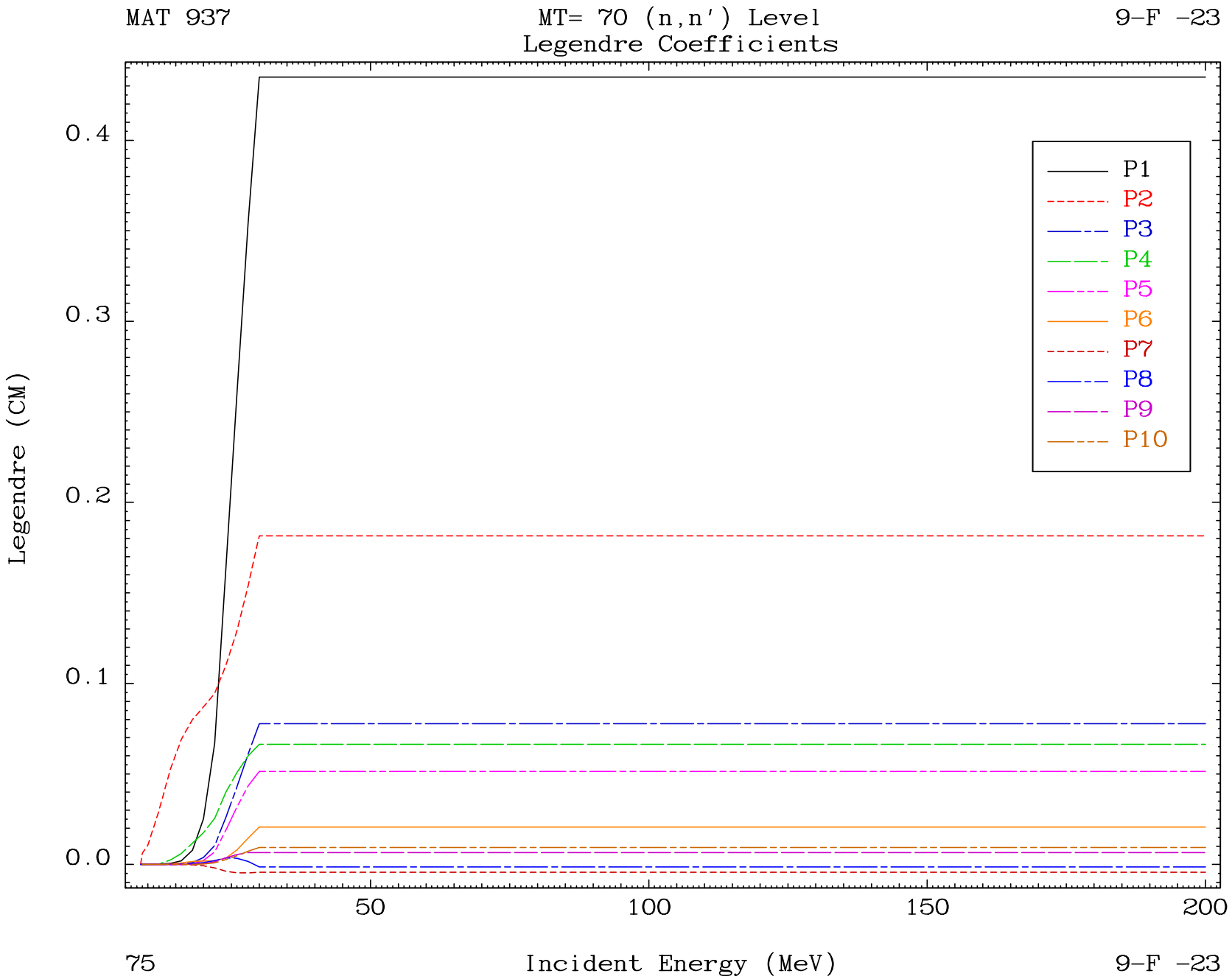

MAT 937
MT= 68 (n,n') Level
Legendre Coefficients
9-F -23
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.015
0.010
0.005
0.000
Legendre (CM)
50
100
150
200
70
Incident Energy (MeV)
9-F -23

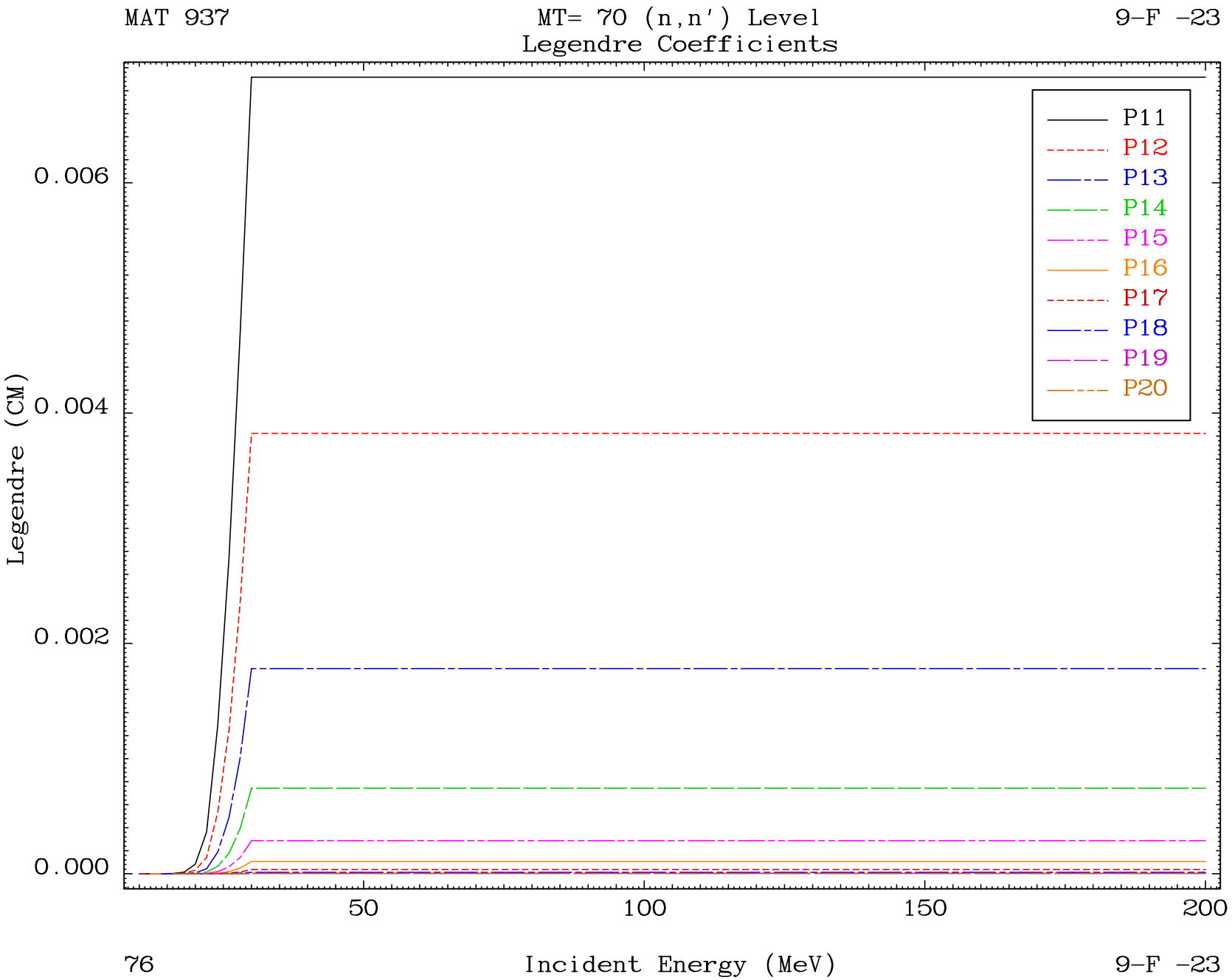

MAT 937
MT= 68 (n,n') Level
Legendre Coefficients
9-F -23
X10^-6
4
3
2
1
0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
50
100
150
200
71
Incident Energy (MeV)
9-F -23

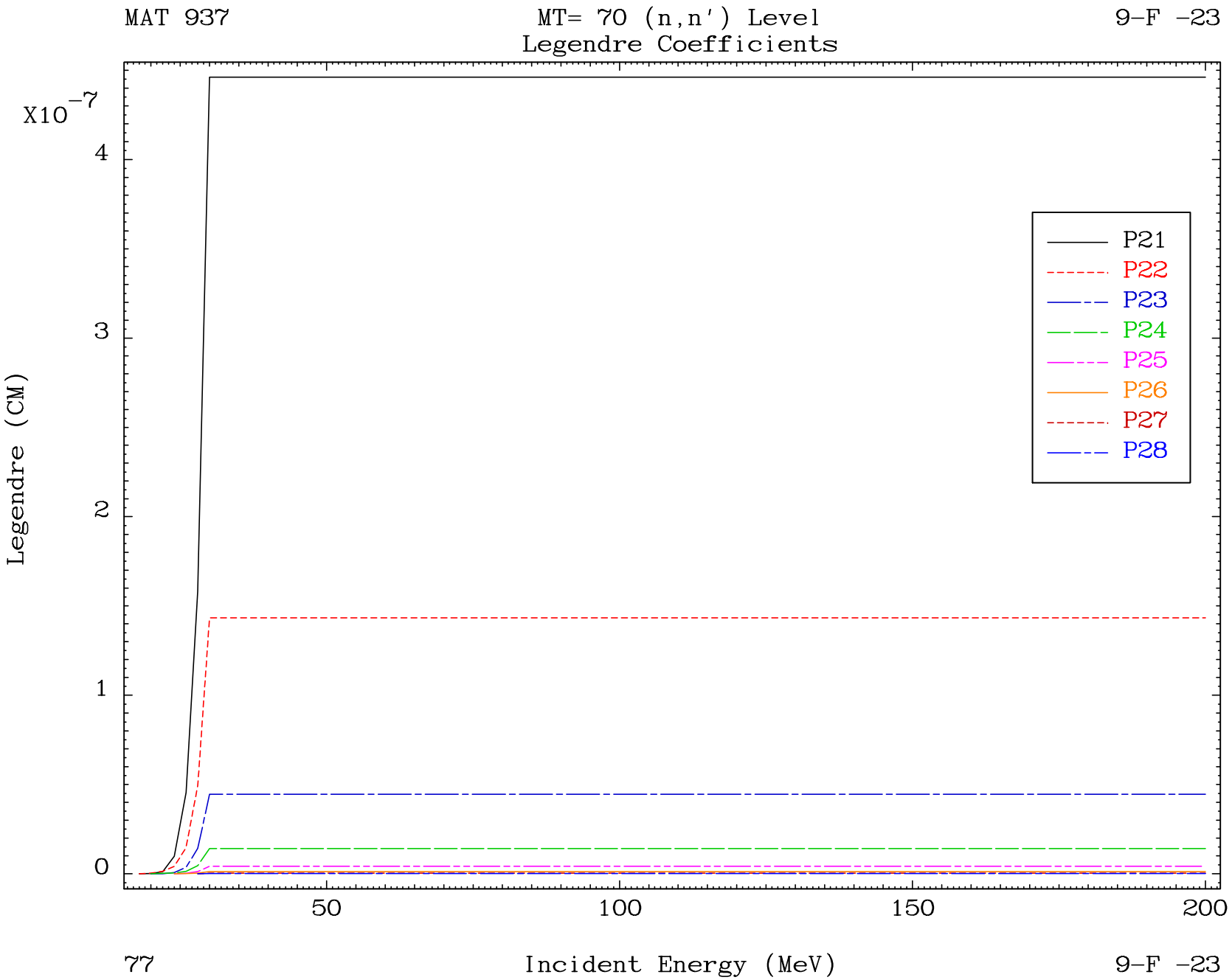

MAT 937
MT= 69 (n,n') Level
Legendre Coefficients
9-F -23
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
72
Incident Energy (MeV)
9-F -23

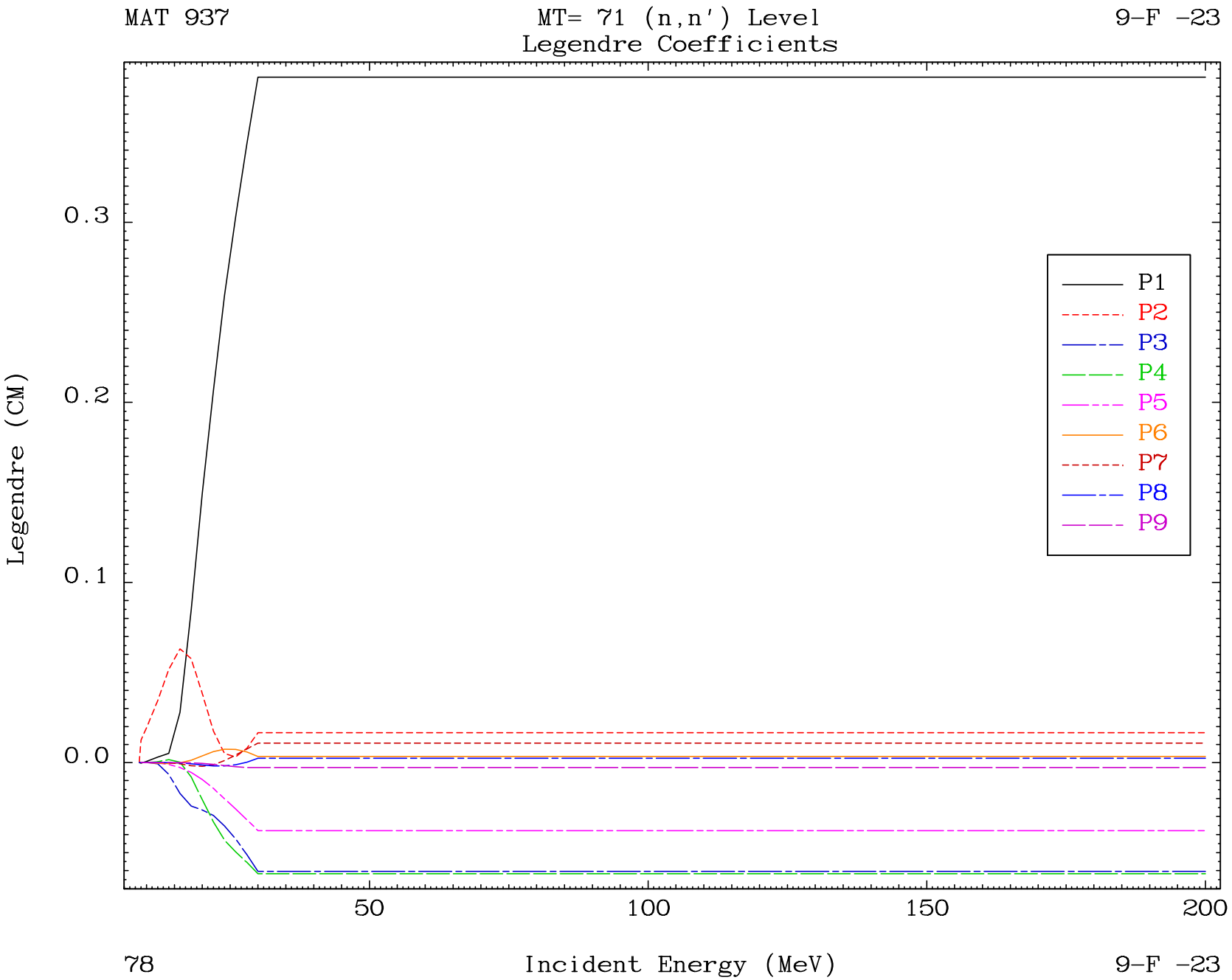

MAT 937
MT= 69 (n,n') Level
Legendre Coefficients
9-F -23
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.006
0.004
0.002
0.000
Legendre (CM)
50
100
150
200
73
Incident Energy (MeV)
9-F -23

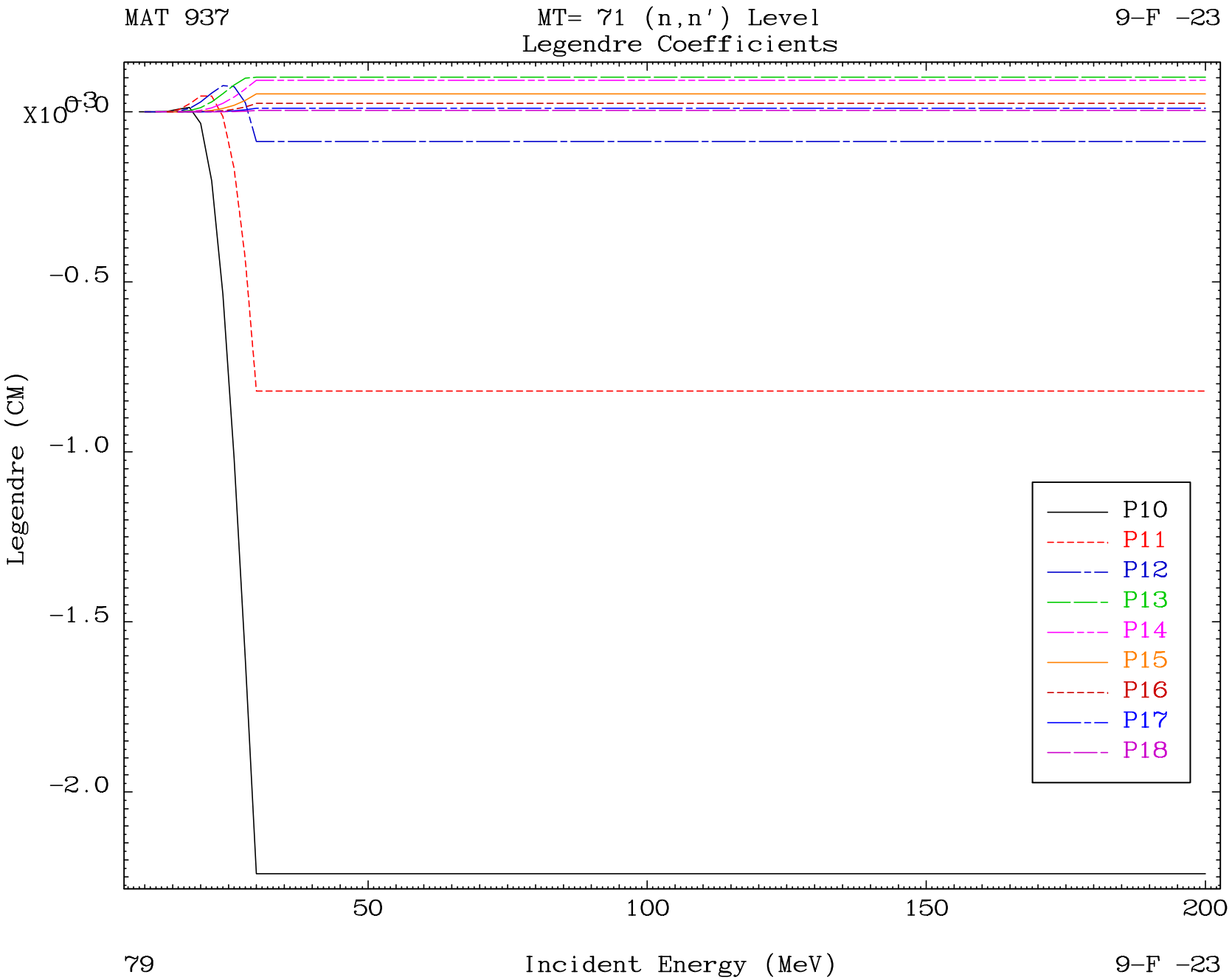

MAT 937
MT= 69 (n,n') Level
Legendre Coefficients
9-F -23
X10-7
4
3
2
1
0
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
50
100
150
200
74
Incident Energy (MeV)
9-F -23

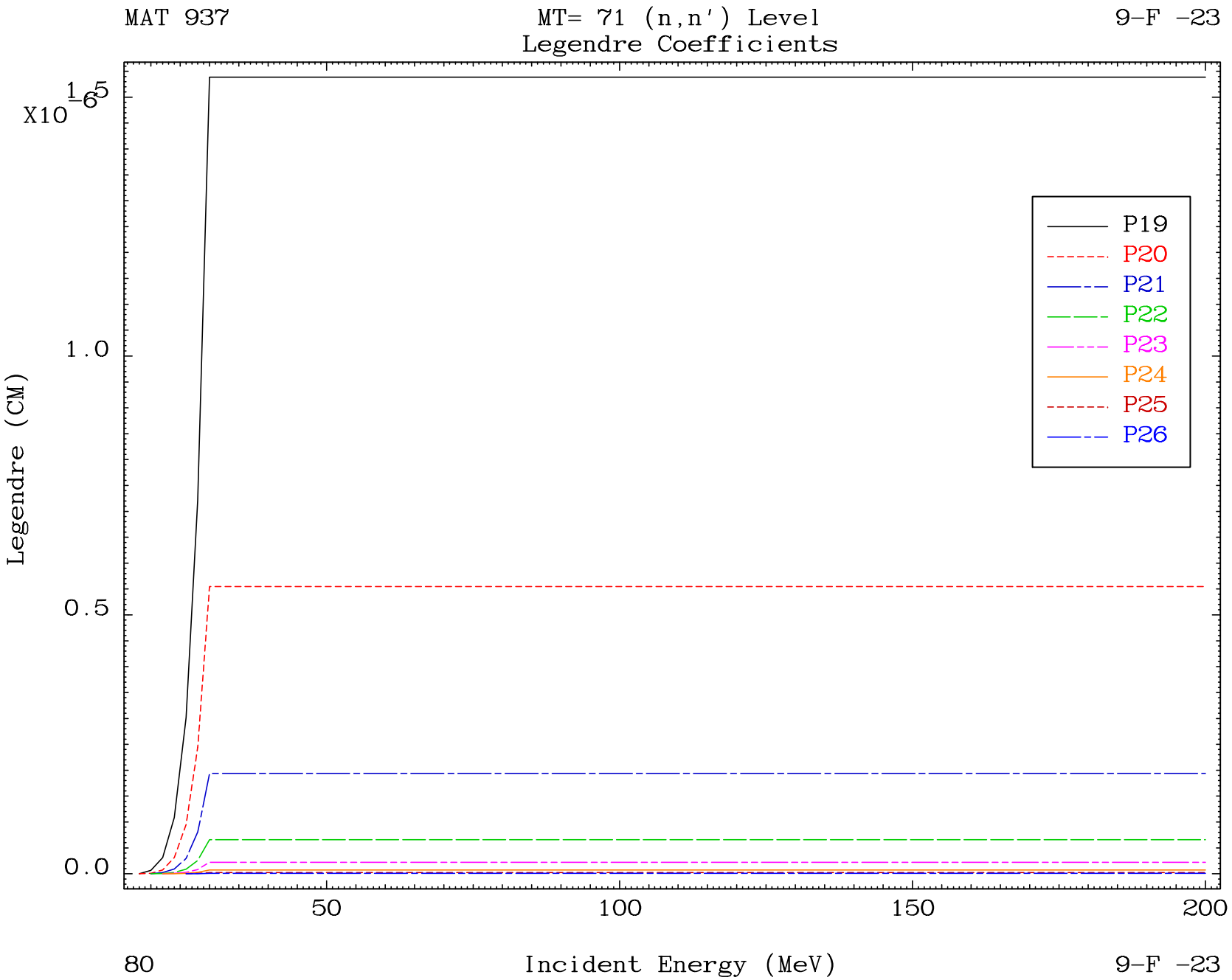

MAT 937
MT= 70 (n,n') Level
Legendre Coefficients
9-F -23
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
75
Incident Energy (MeV)
9-F -23

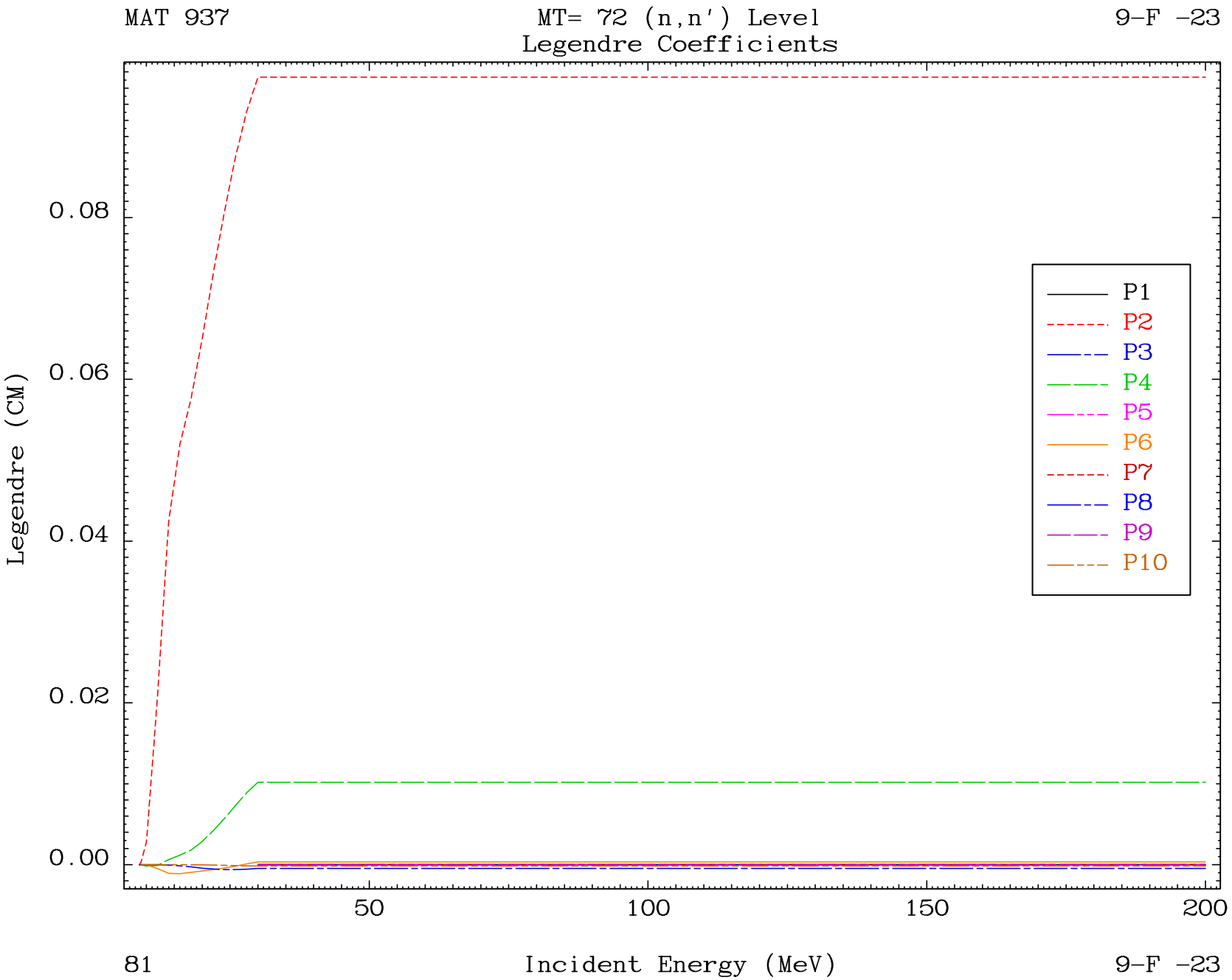

MAT 937
MT= 70 (n,n') Level
Legendre Coefficients
9-F -23
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.006
0.004
0.002
0.000
Legendre (CM)
50
100
150
200
76
Incident Energy (MeV)
9-F -23

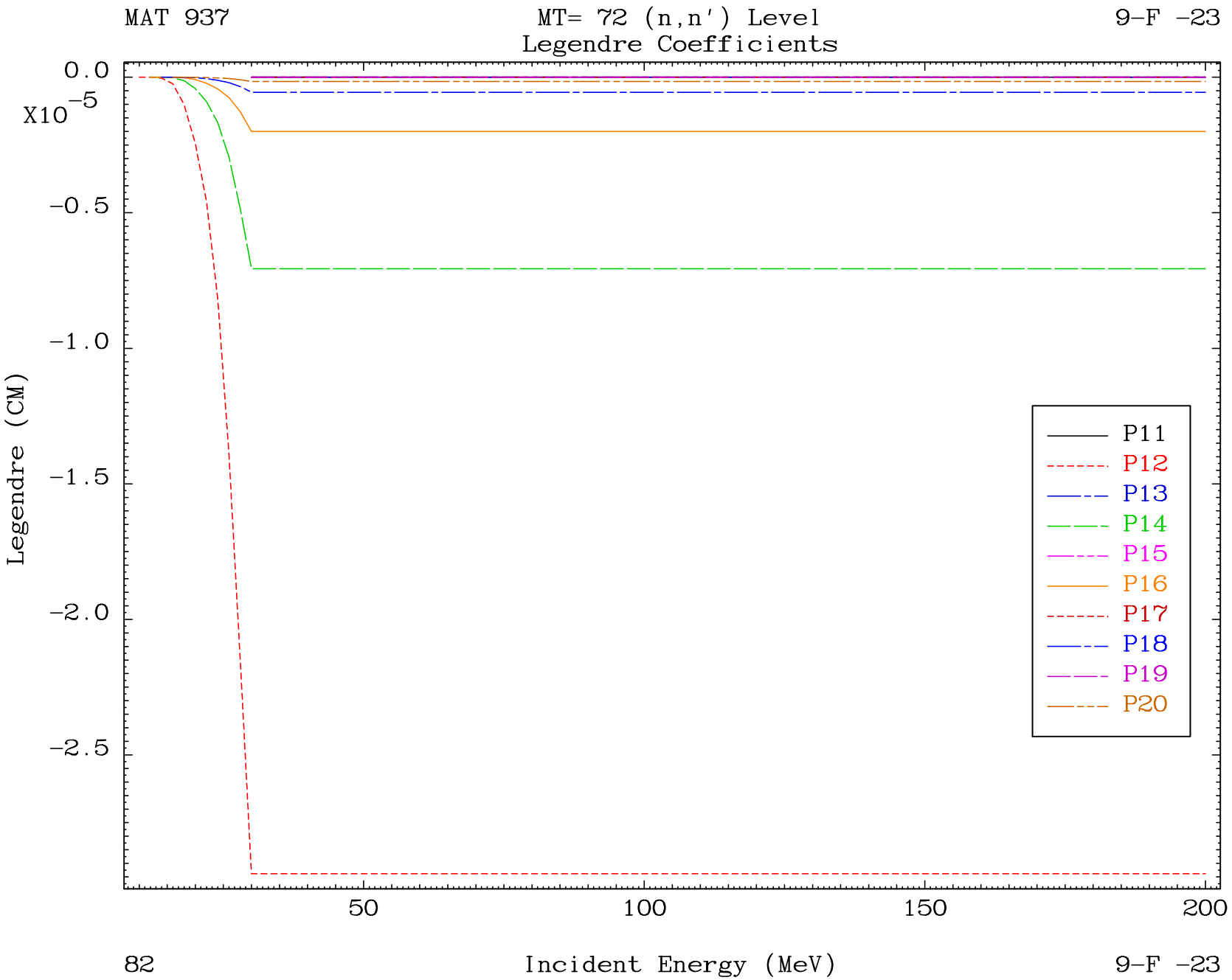

MAT 937
MT= 70 (n,n') Level
Legendre Coefficients
9-F -23
X10^-7
4
3
2
1
0
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
50
100
150
200
77
Incident Energy (MeV)
9-F -23

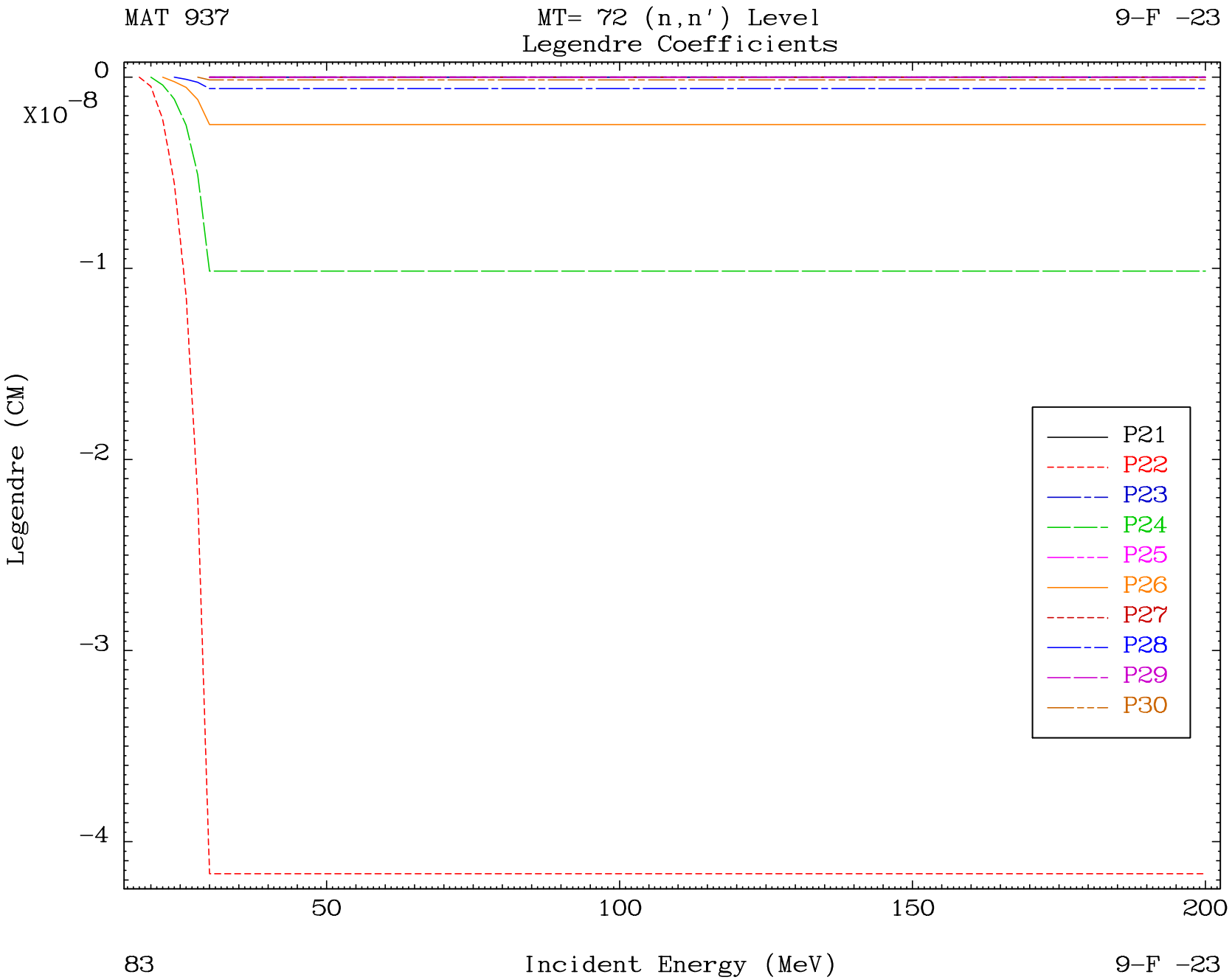

MAT 937
MT= 71 (n,n') Level
Legendre Coefficients
9-F -23
Legendre (CM)
0.3
0.2
0.1
0.0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
78
Incident Energy (MeV)
9-F -23

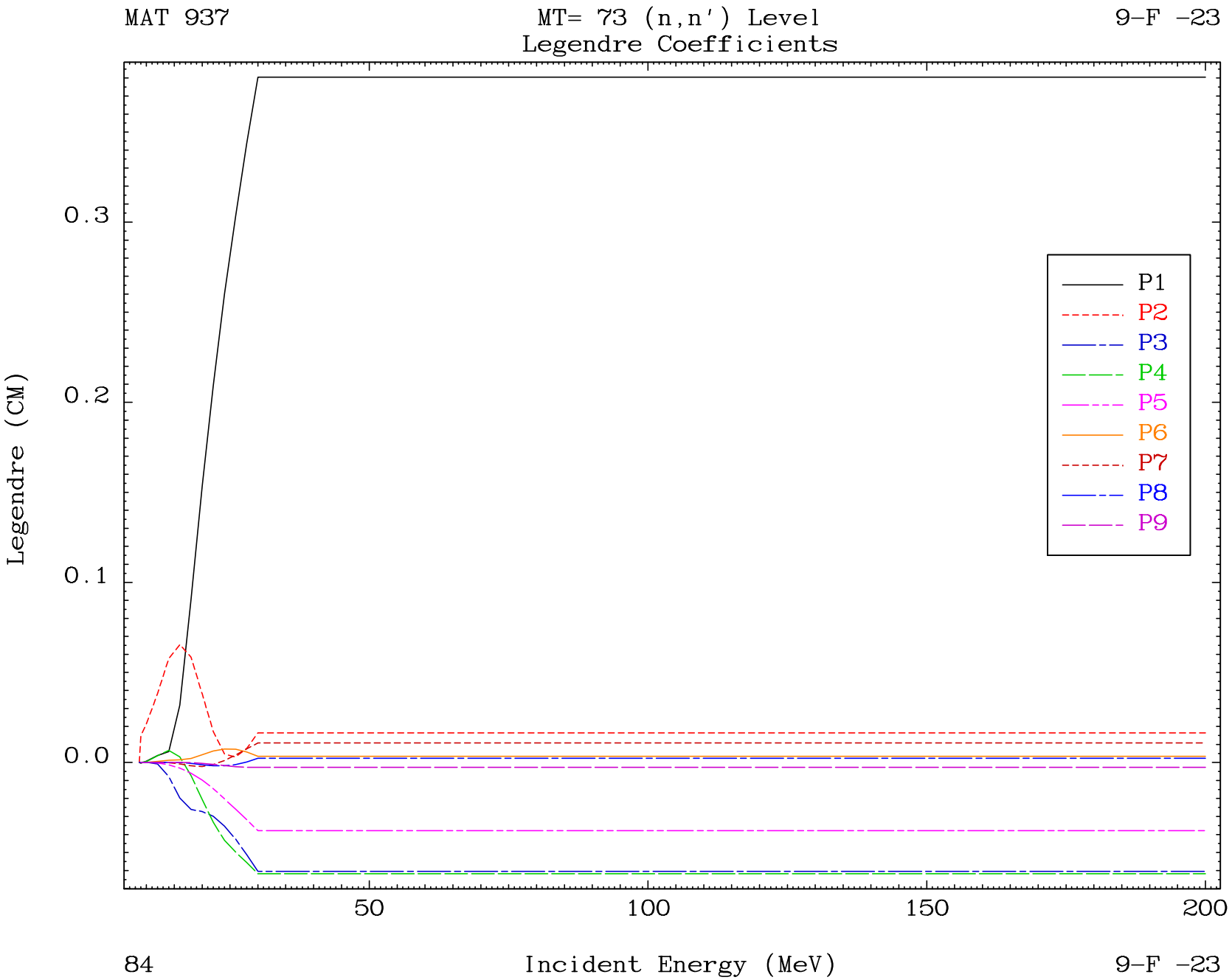

MAT 937
MT= 71 (n,n') Level
Legendre Coefficients
9-F -23
X10^0.3
0.0
-0.5
-1.0
-1.5
-2.0
Legendre (CM)
50
100
150
200
79
Incident Energy (MeV)
9-F -23
P10
P11
P12
P13
P14
P15
P16
P17
P18

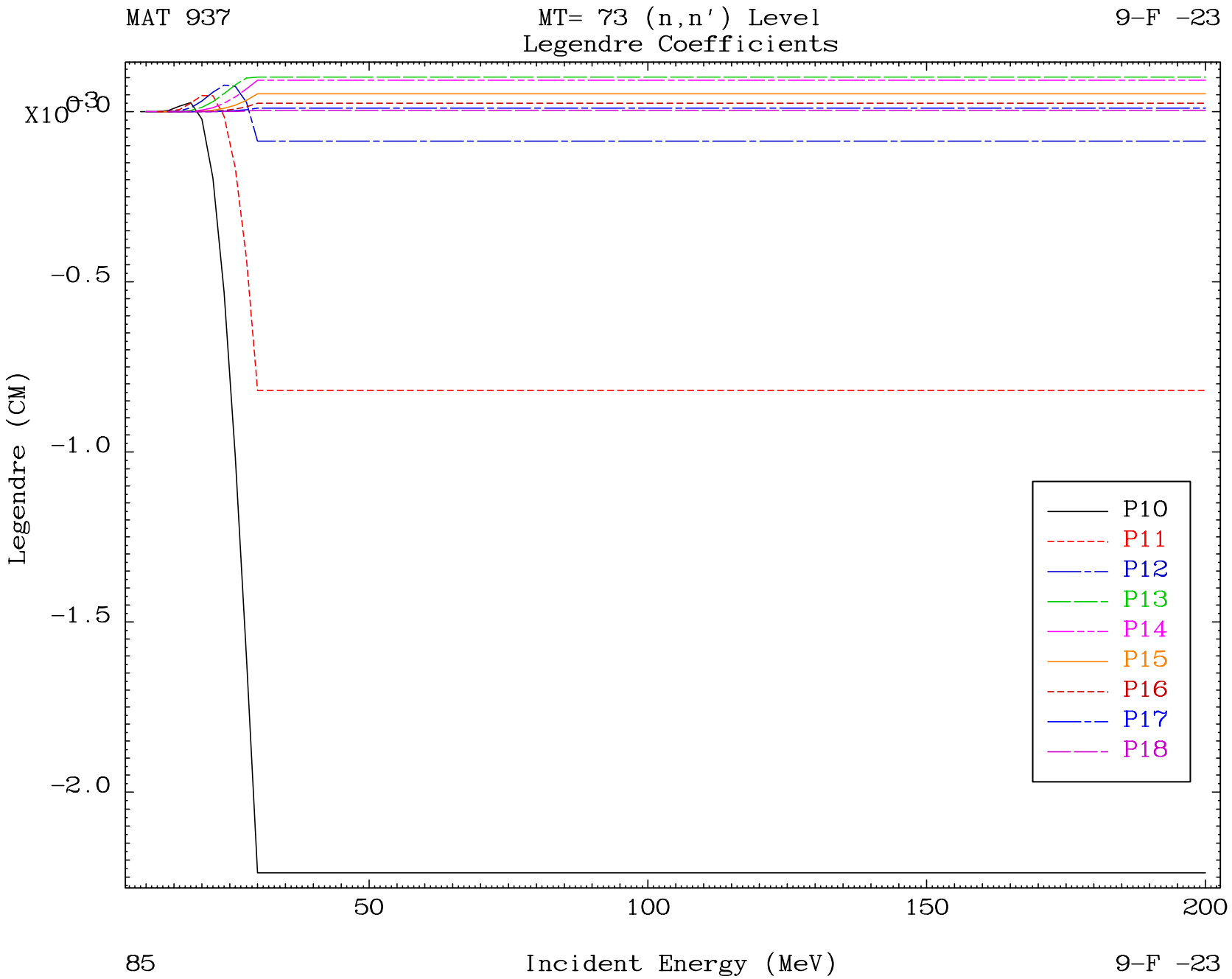

MAT 937
MT= 71 (n,n') Level
Legendre Coefficients
9-F -23
X10-5
1.6
1.0
0.5
0.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
80
50
100
150
200
Incident Energy (MeV)
9-F -23

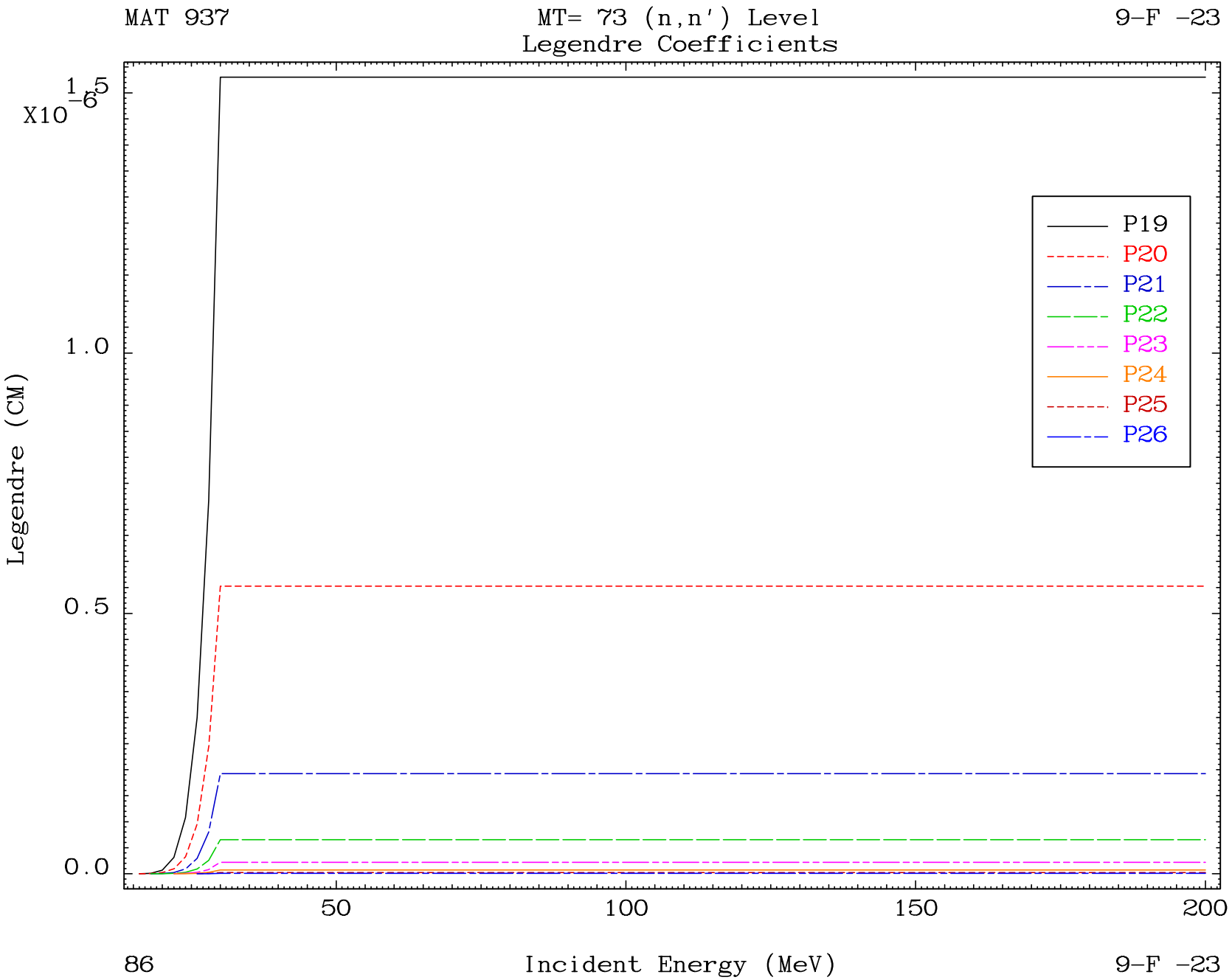

MAT 937
MT= 72 (n,n') Level
Legendre Coefficients
9-F -23
Legendre (CM)
0.08
0.06
0.04
0.02
0.00
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
81
Incident Energy (MeV)
9-F -23

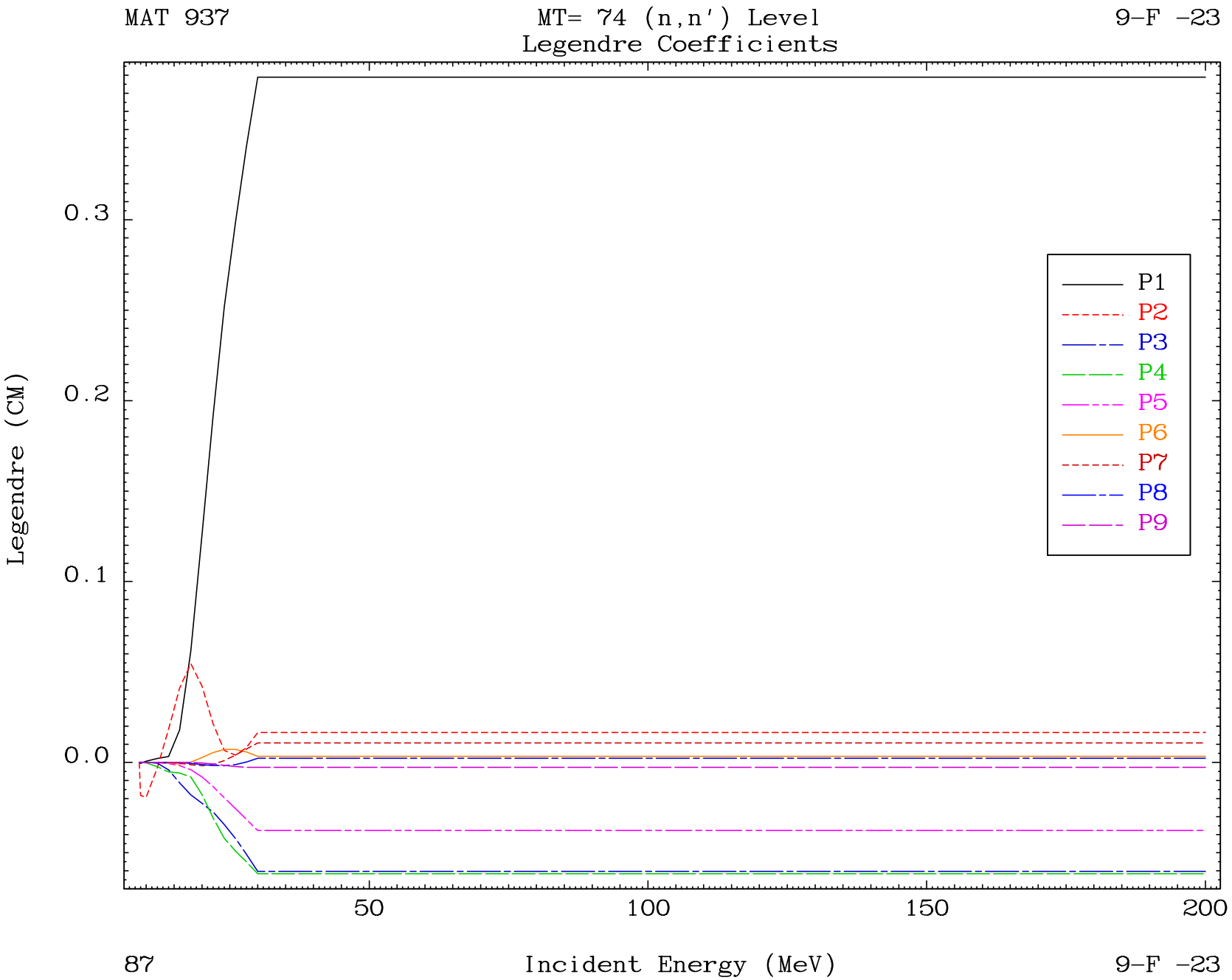

MAT 937
MT= 72 (n,n') Level
Legendre Coefficients
9-F -23
0.0
X10^-5
-0.5
-1.0
-1.5
-2.0
-2.5
Legendre (CM)
50
100
150
200
82
Incident Energy (MeV)
9-F -23
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20

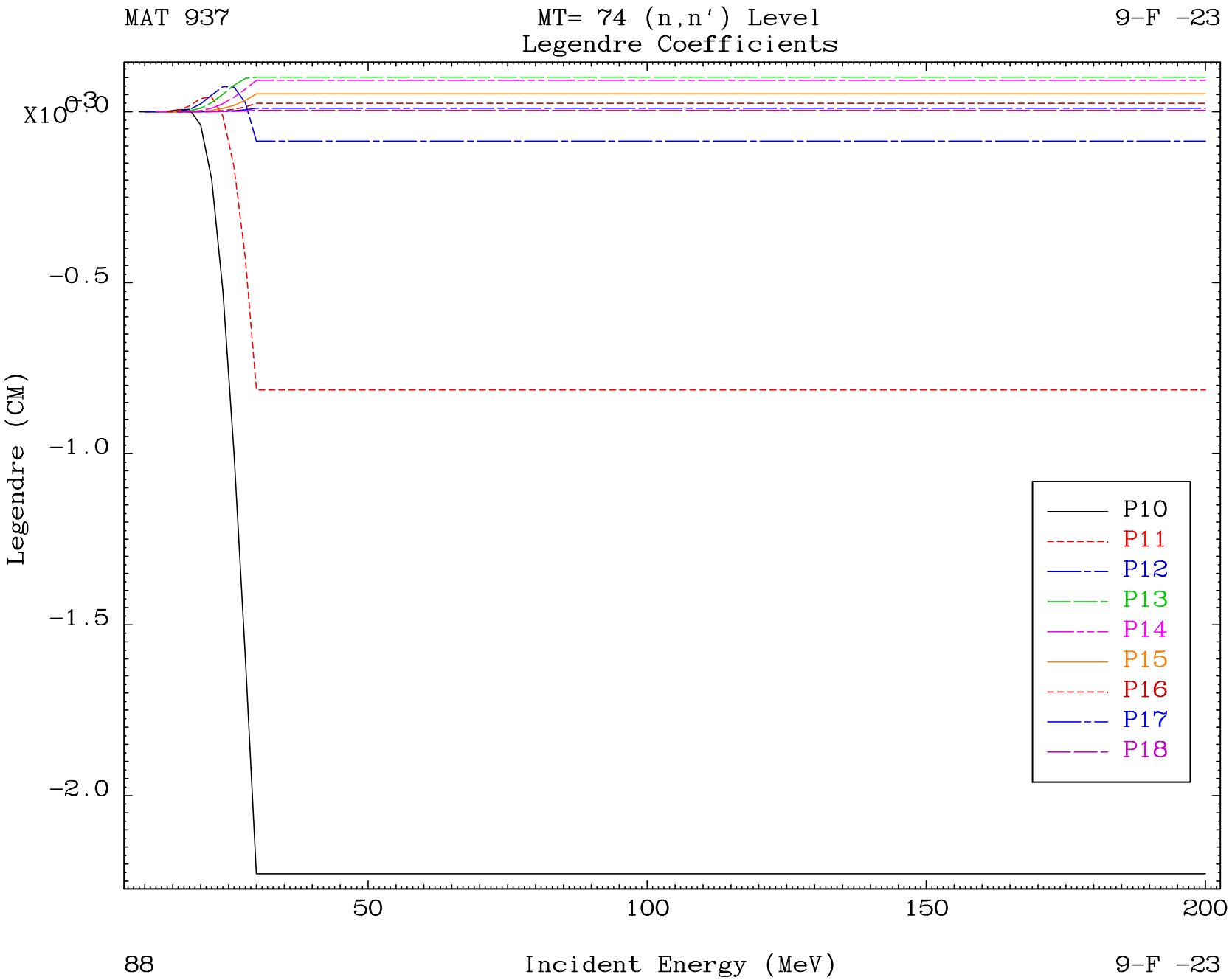

MAT 937
MT= 72 (n,n') Level
Legendre Coefficients
9-F -23
0
X10 -8
-1
-2
-3
-4
Legendre (CM)
50
100
150
200
83
Incident Energy (MeV)
9-F -23
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30

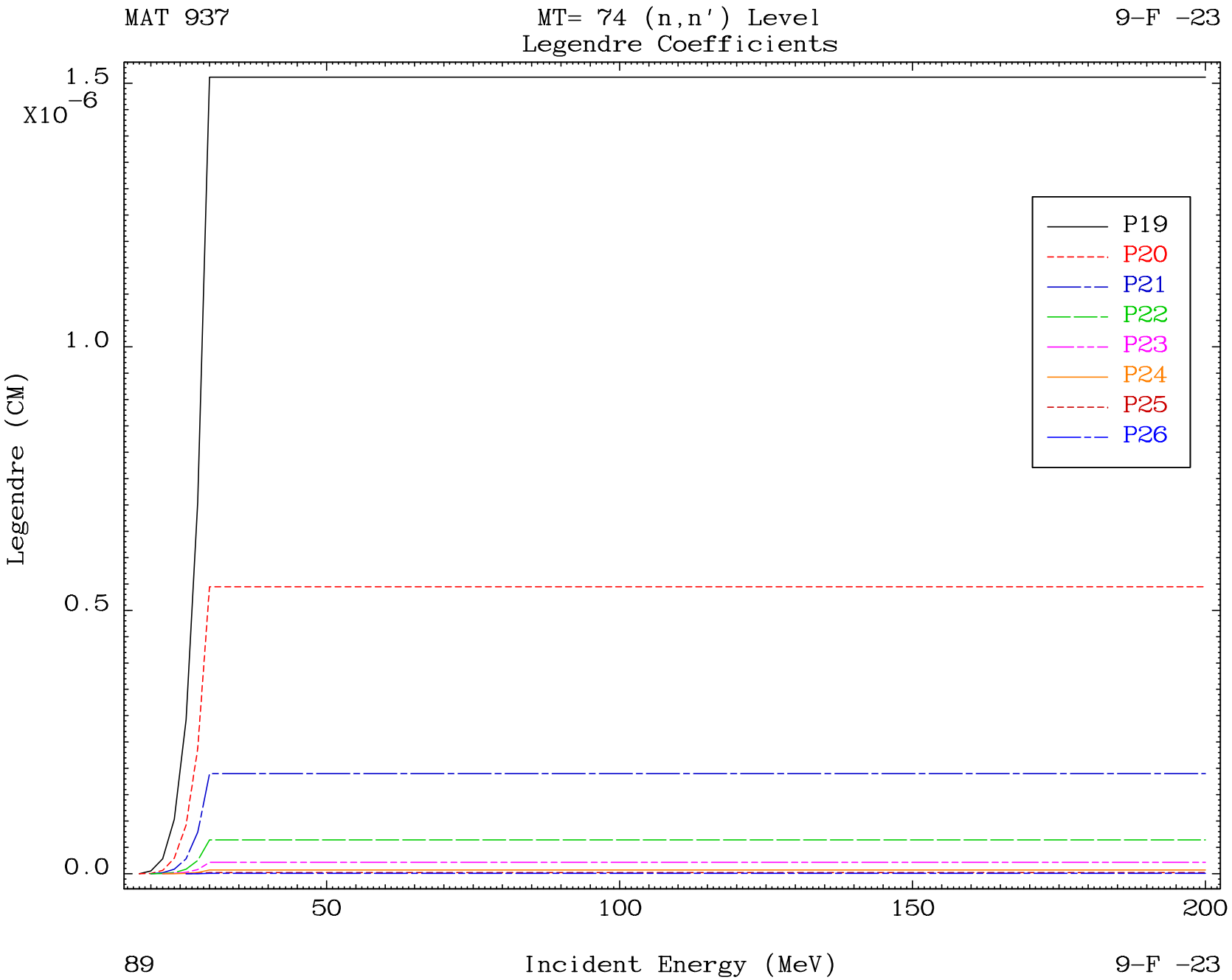

MAT 937
MT= 73 (n,n') Level
Legendre Coefficients
9-F -23
Legendre (CM)
0.3
0.2
0.1
0.0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
84
Incident Energy (MeV)
9-F -23

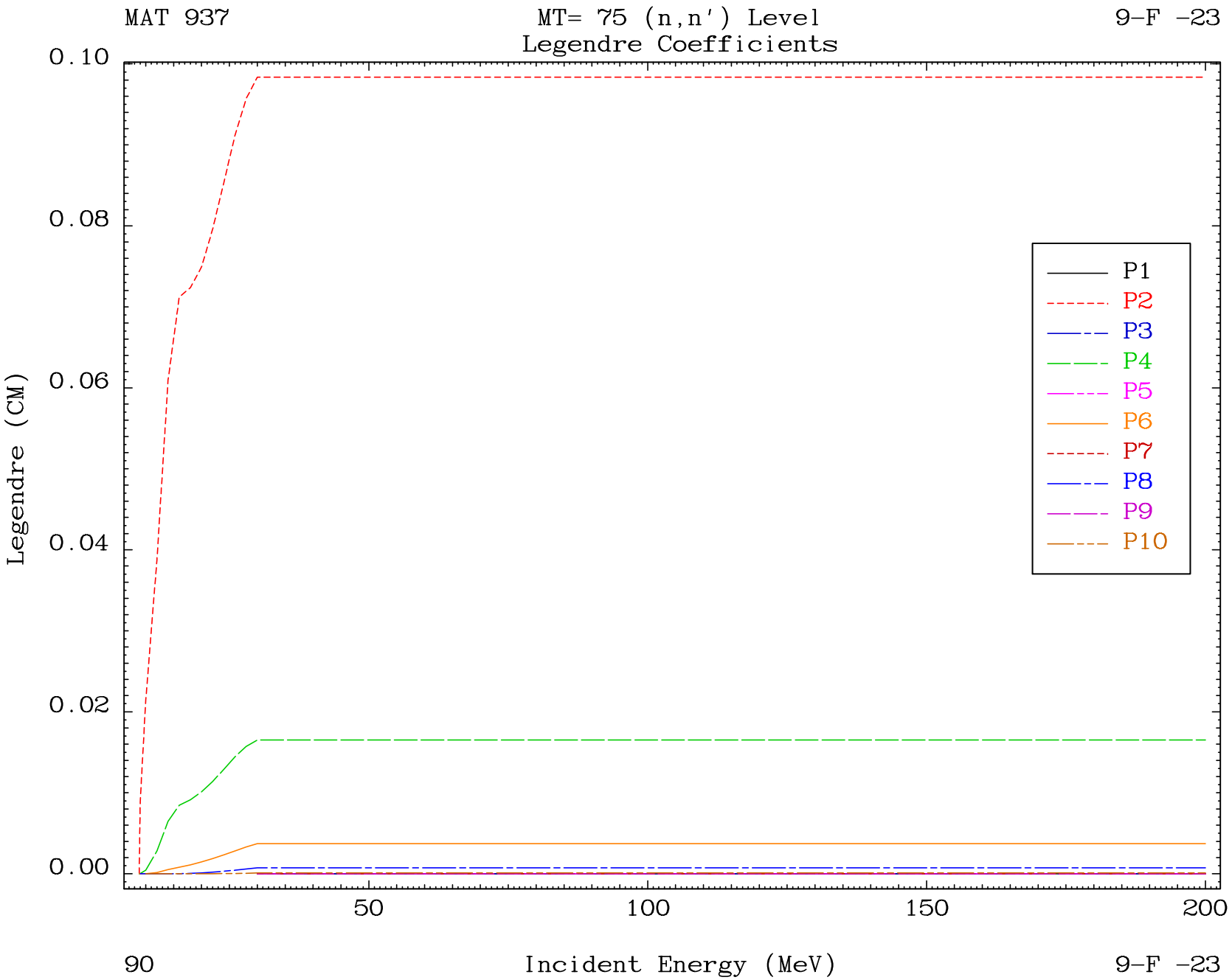

MAT 937
MT= 73 (n,n') Level
Legendre Coefficients
9-F -23
X10^-3
0.0
-0.5
-1.0
-1.5
-2.0
Legendre (CM)
50
100
150
200
85
Incident Energy (MeV)
9-F -23
P10
P11
P12
P13
P14
P15
P16
P17
P18

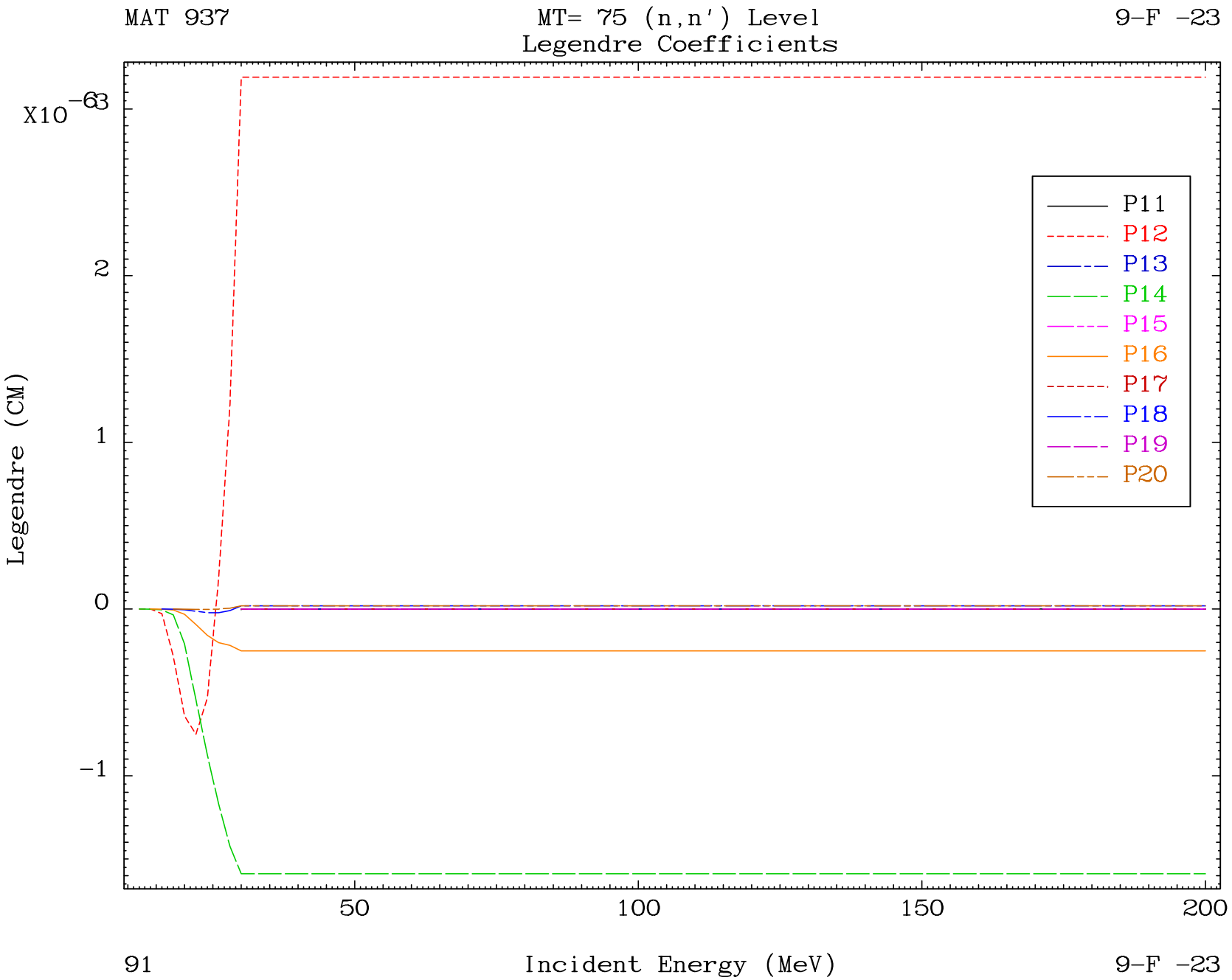

MAT 937
MT= 73 (n,n') Level
Legendre Coefficients
9-F -23
X10-6
1.5
1.0
0.5
0.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
50
100
150
200
86
Incident Energy (MeV)
9-F -23

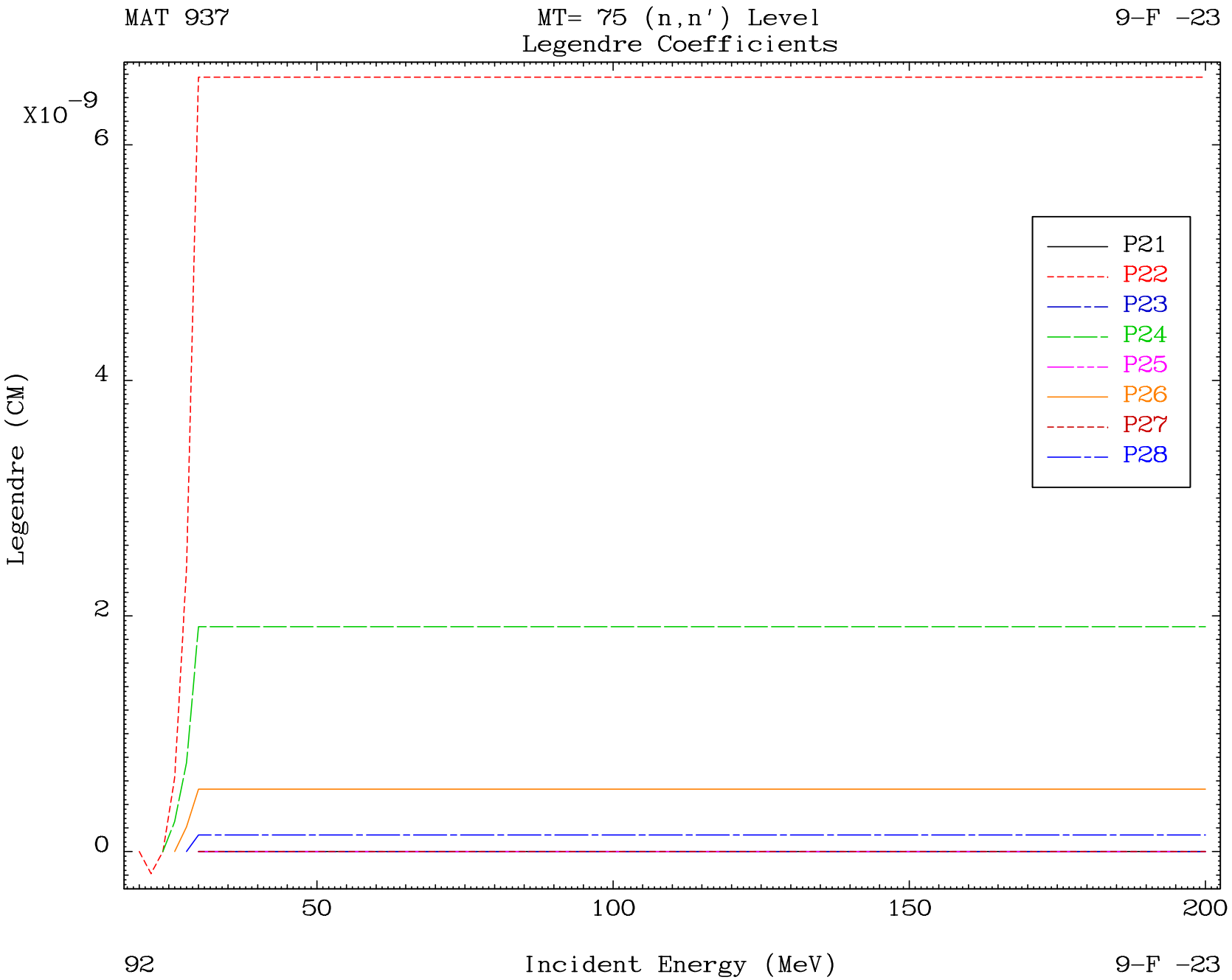

MAT 937
MT= 74 (n,n') Level
Legendre Coefficients
9-F -23
Legendre (CM)
0.3
0.2
0.1
0.0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
87
Incident Energy (MeV)
9-F -23

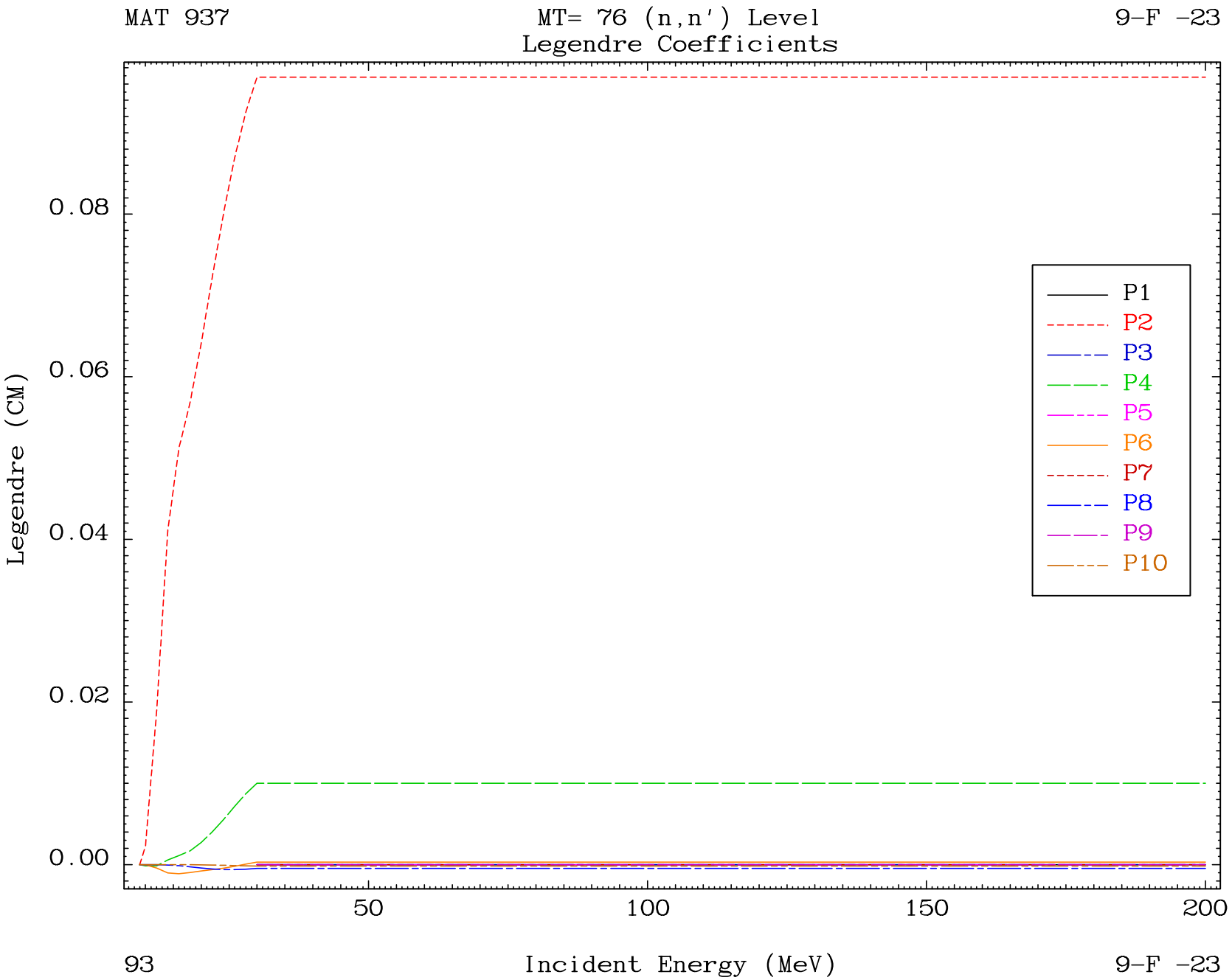

MAT 937
MT= 74 (n,n') Level
Legendre Coefficients
9-F -23
X10^-3
0.0
-0.5
-1.0
-1.5
-2.0
Legendre (CM)
50
100
150
200
88
Incident Energy (MeV)
9-F -23
P10
P11
P12
P13
P14
P15
P16
P17
P18

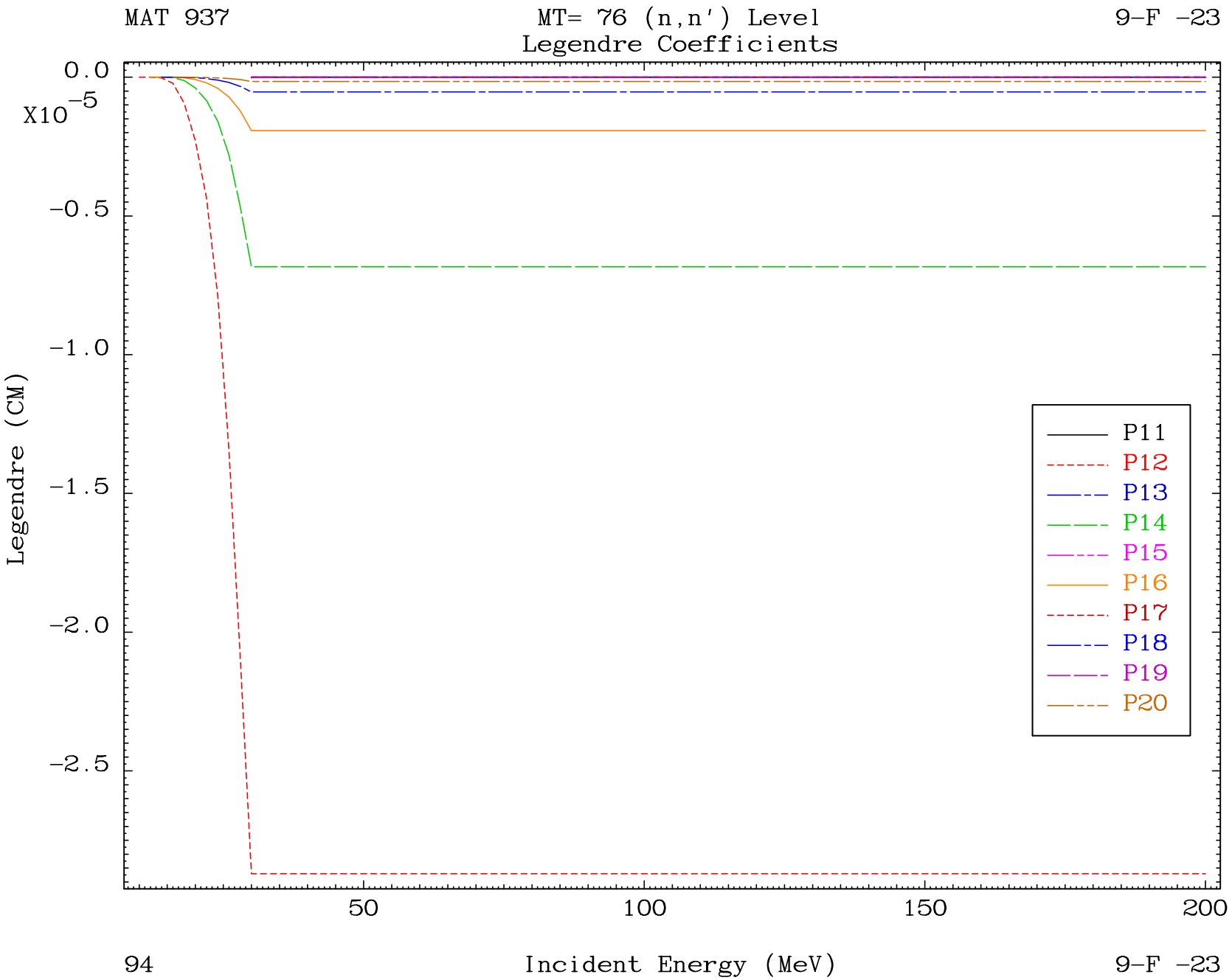

MAT 937
MT= 74 (n,n') Level
Legendre Coefficients
9-F -23
1.5
X10-6
1.0
0.5
0.0
Legendre (CM)
50
100
150
200
89
Incident Energy (MeV)
9-F -23
P19
P20
P21
P22
P23
P24
P25
P26

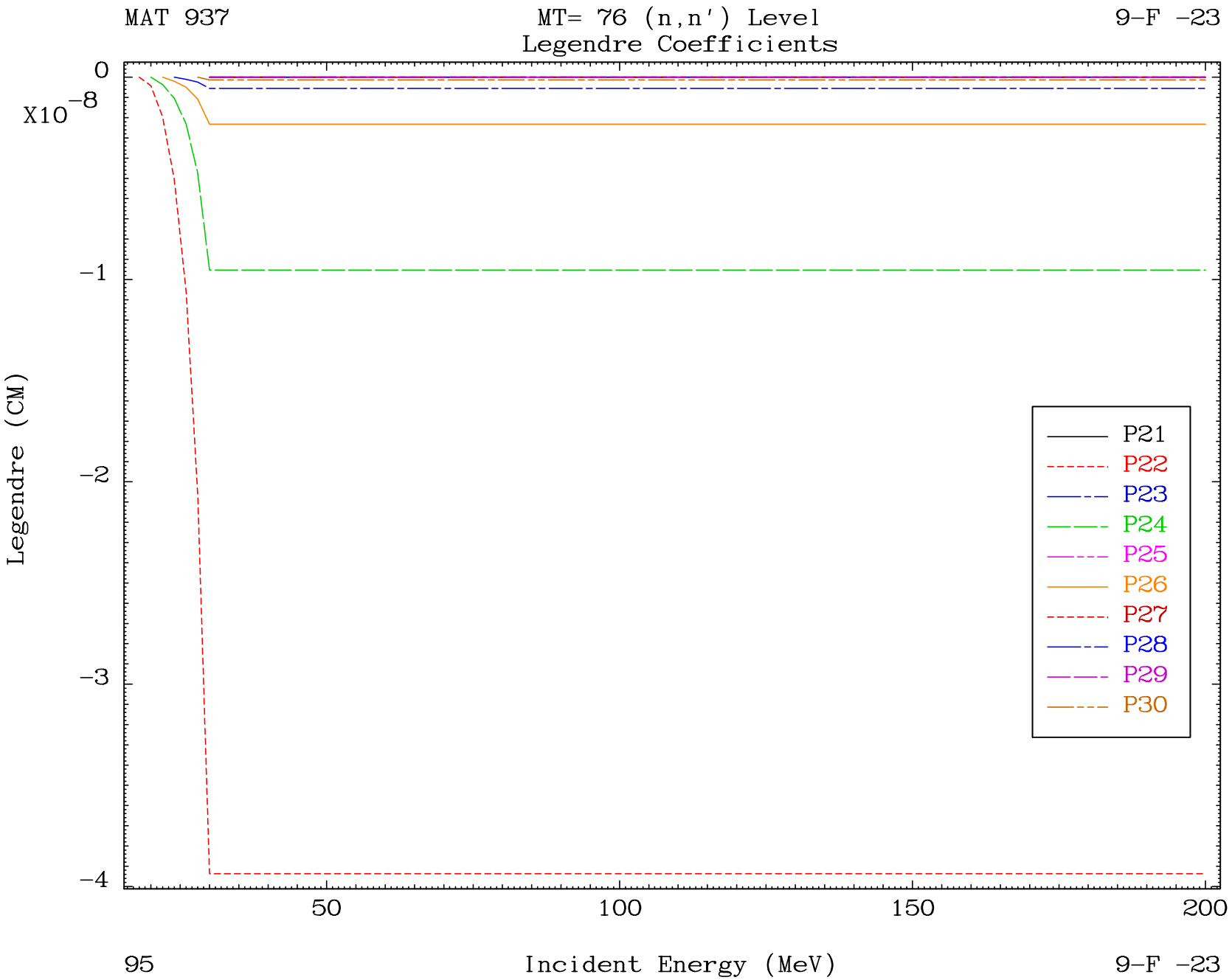

MAT 937
MT= 75 (n,n') Level
Legendre Coefficients
9-F -23
0.10
0.08
0.06
0.04
0.02
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
50
100
150
200
90
Incident Energy (MeV)
9-F -23

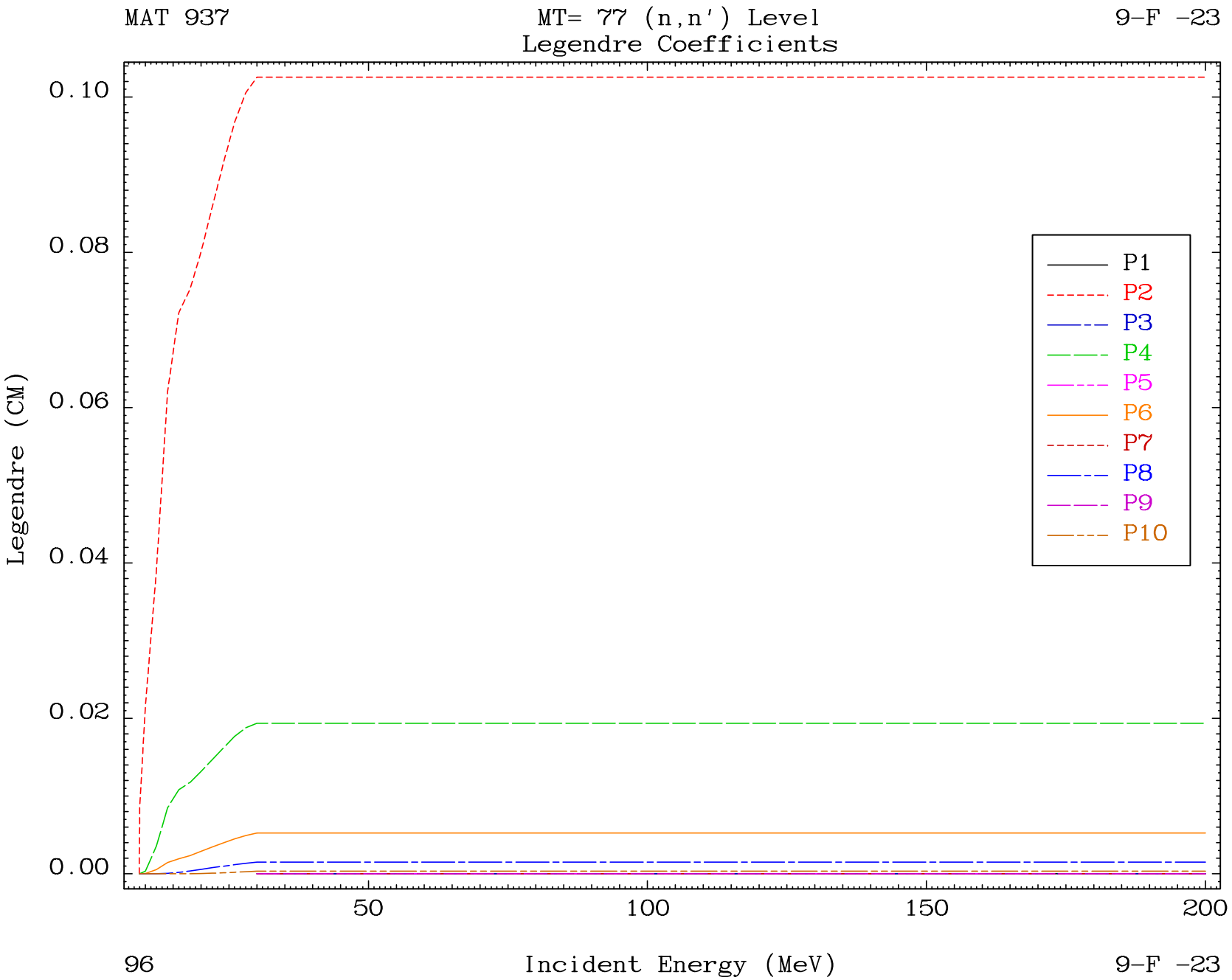

MAT 937
MT= 75 (n,n') Level
Legendre Coefficients
9-F -23
X10-63
2
1
0
-1
Legendre (CM)
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
50
100
150
200
91
Incident Energy (MeV)
9-F -23

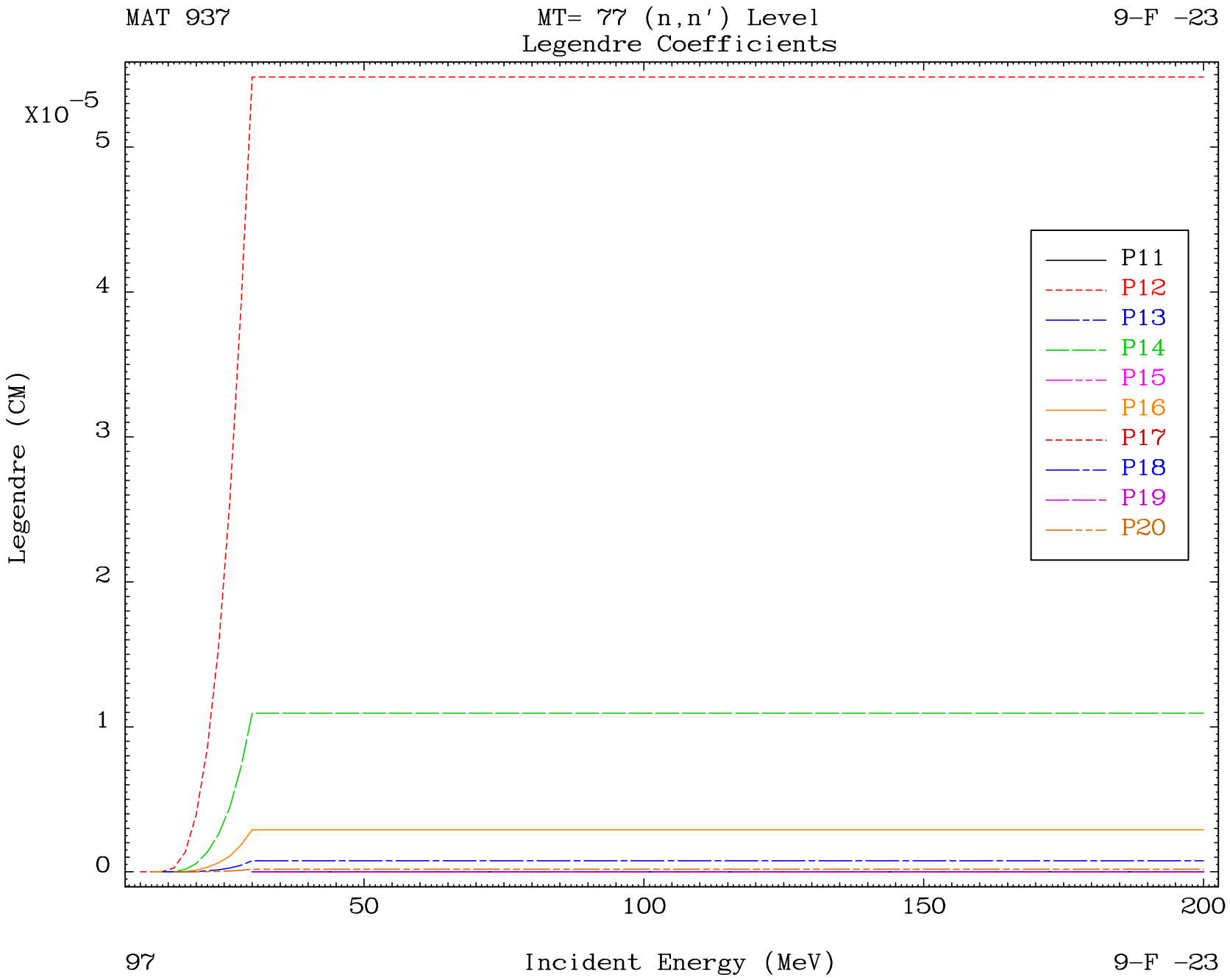

MAT 937
MT= 75 (n,n') Level
Legendre Coefficients
9-F -23
X10 -9
6
4
2
0
Legendre (CM)
50
100
150
200
92
Incident Energy (MeV)
9-F -23
P21
P22
P23
P24
P25
P26
P27
P28

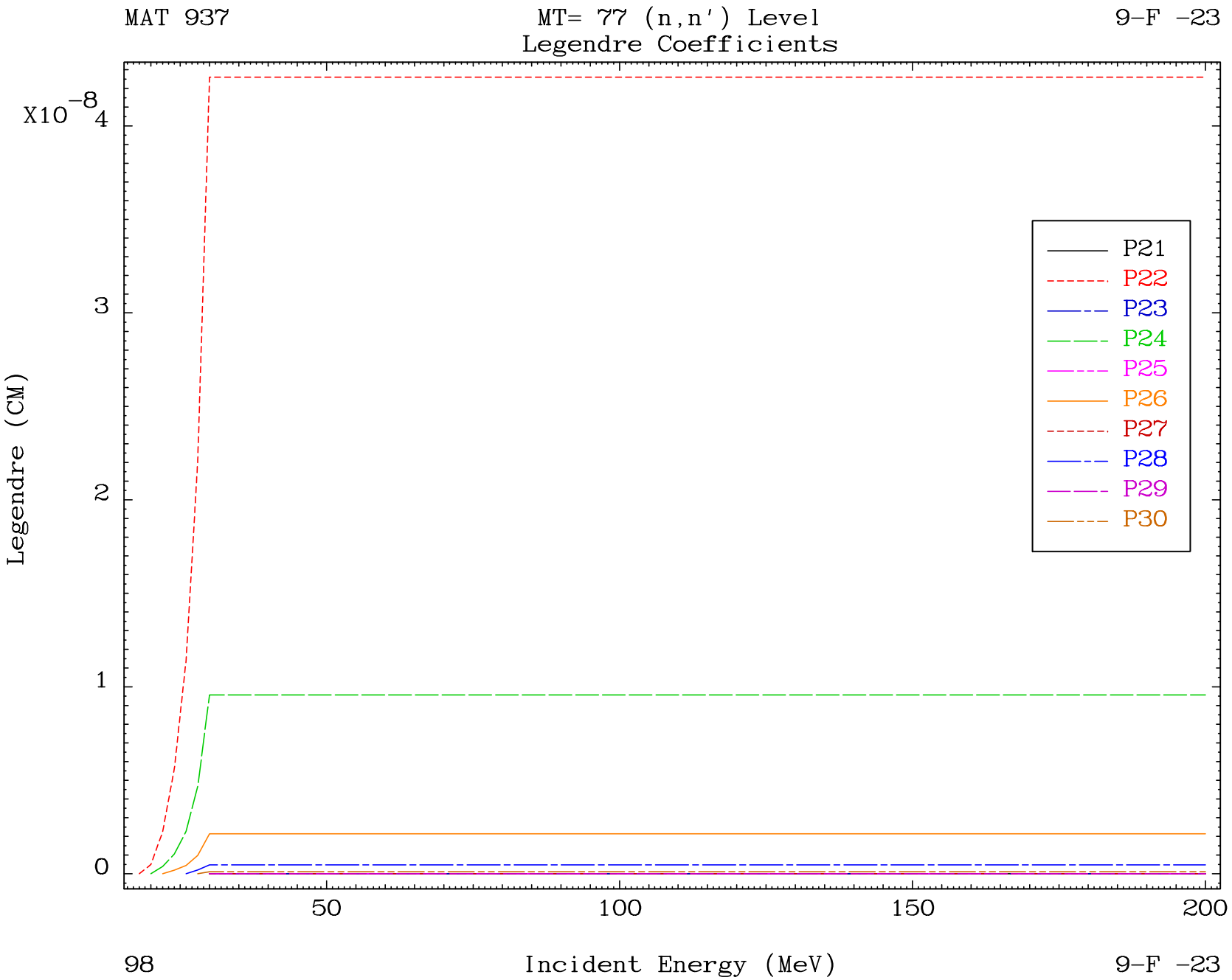

MAT 937
MT= 76 (n,n') Level
Legendre Coefficients
9-F -23
0.08
0.06
0.04
0.02
0.00
Legendre (CM)
50
100
150
200
93
Incident Energy (MeV)
9-F -23
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10

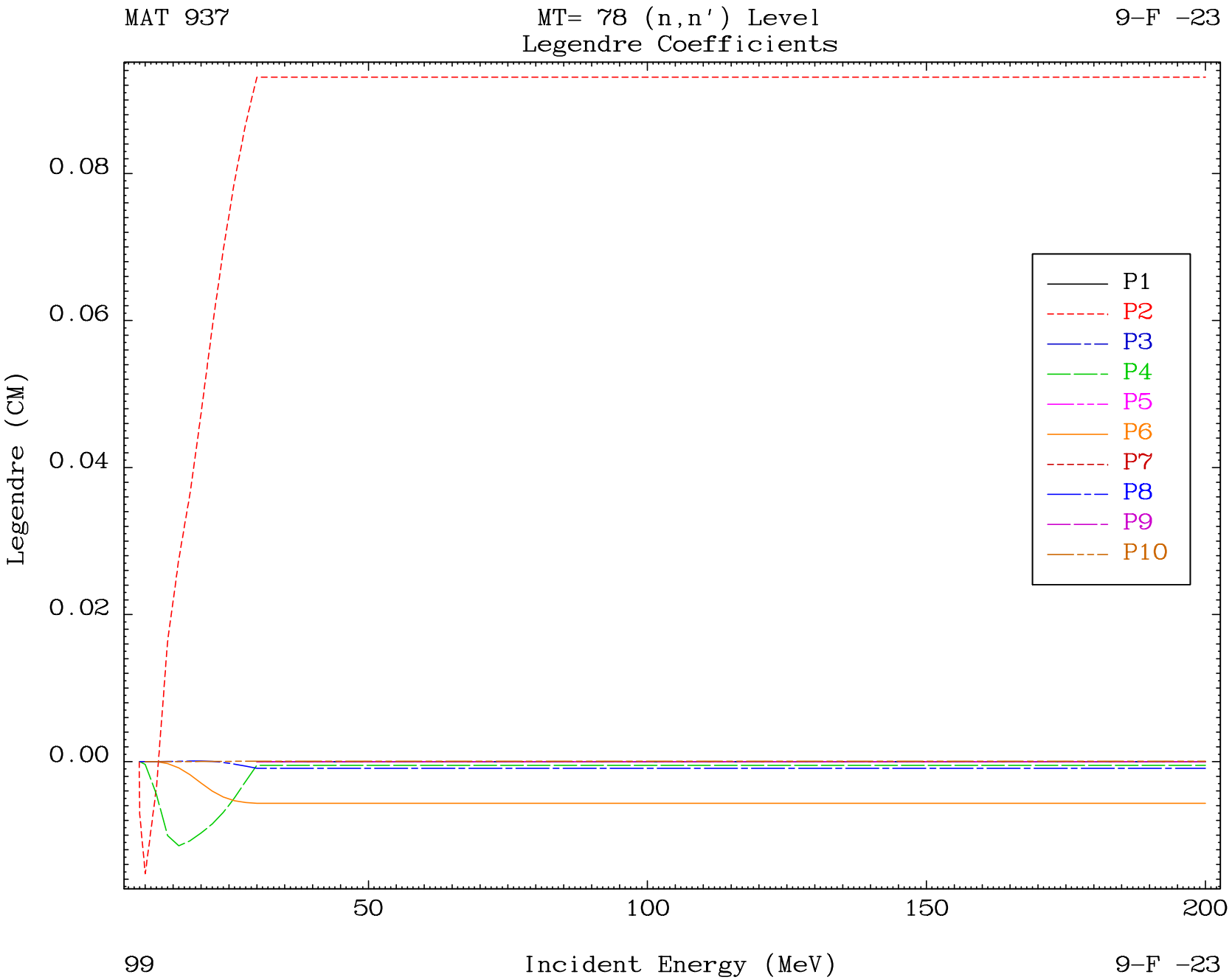

MAT 937
MT= 76 (n,n') Level
Legendre Coefficients
9-F -23
0.0
X10^-5
-0.5
-1.0
-1.5
-2.0
-2.5
Legendre (CM)
50
100
150
200
94
Incident Energy (MeV)
9-F -23
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20

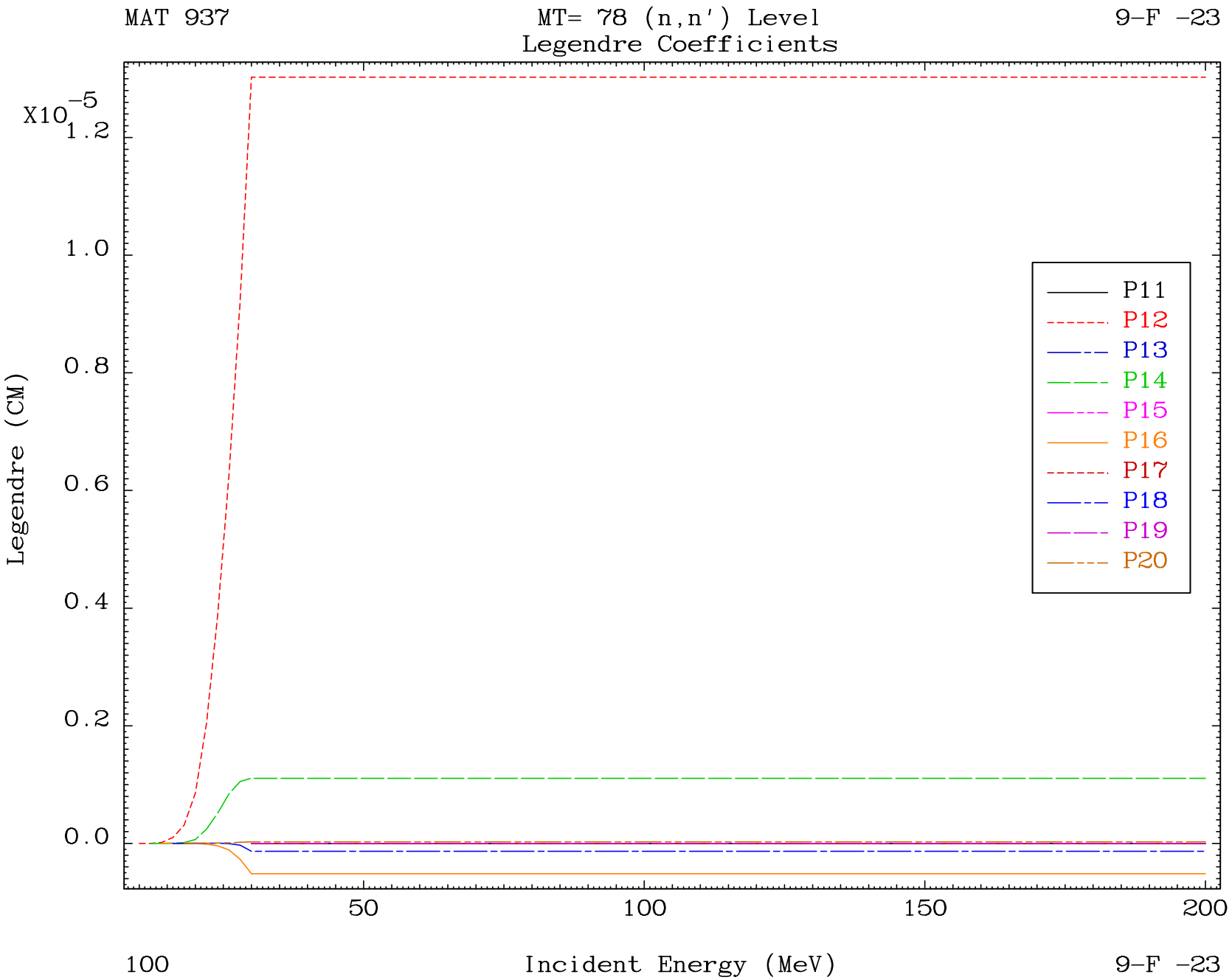

MAT 937
MT= 76 (n,n') Level
Legendre Coefficients
9-F -23
0
X10 -8
-1
-2
-3
-4
Legendre (CM)
50
100
150
200
95
Incident Energy (MeV)
9-F -23
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30

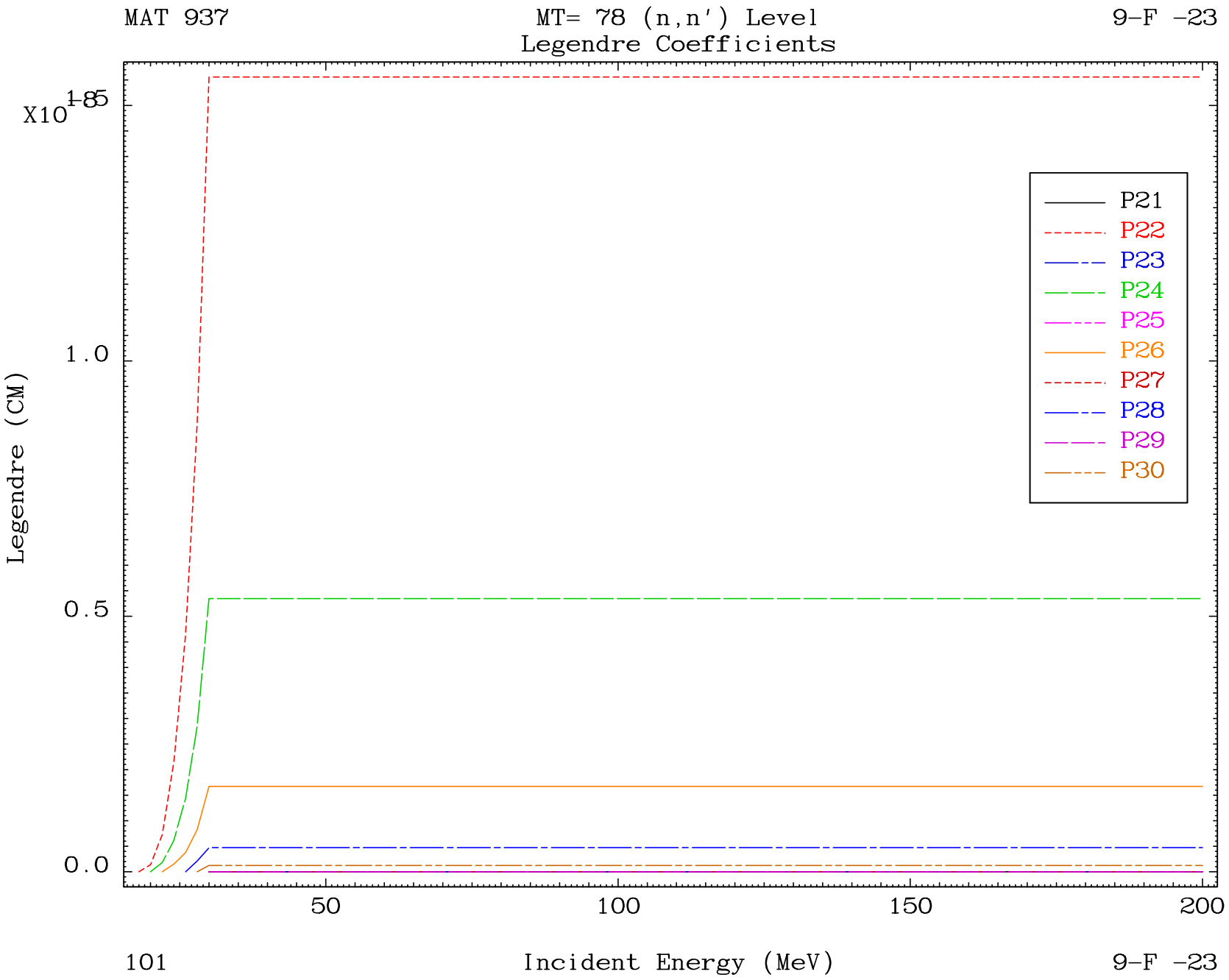

MAT 937
MT= 77 (n,n') Level
Legendre Coefficients
9-F -23
0.10
0.08
0.06
0.04
0.02
0.00
Legendre (CM)
50
100
150
200
96
Incident Energy (MeV)
9-F -23
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10

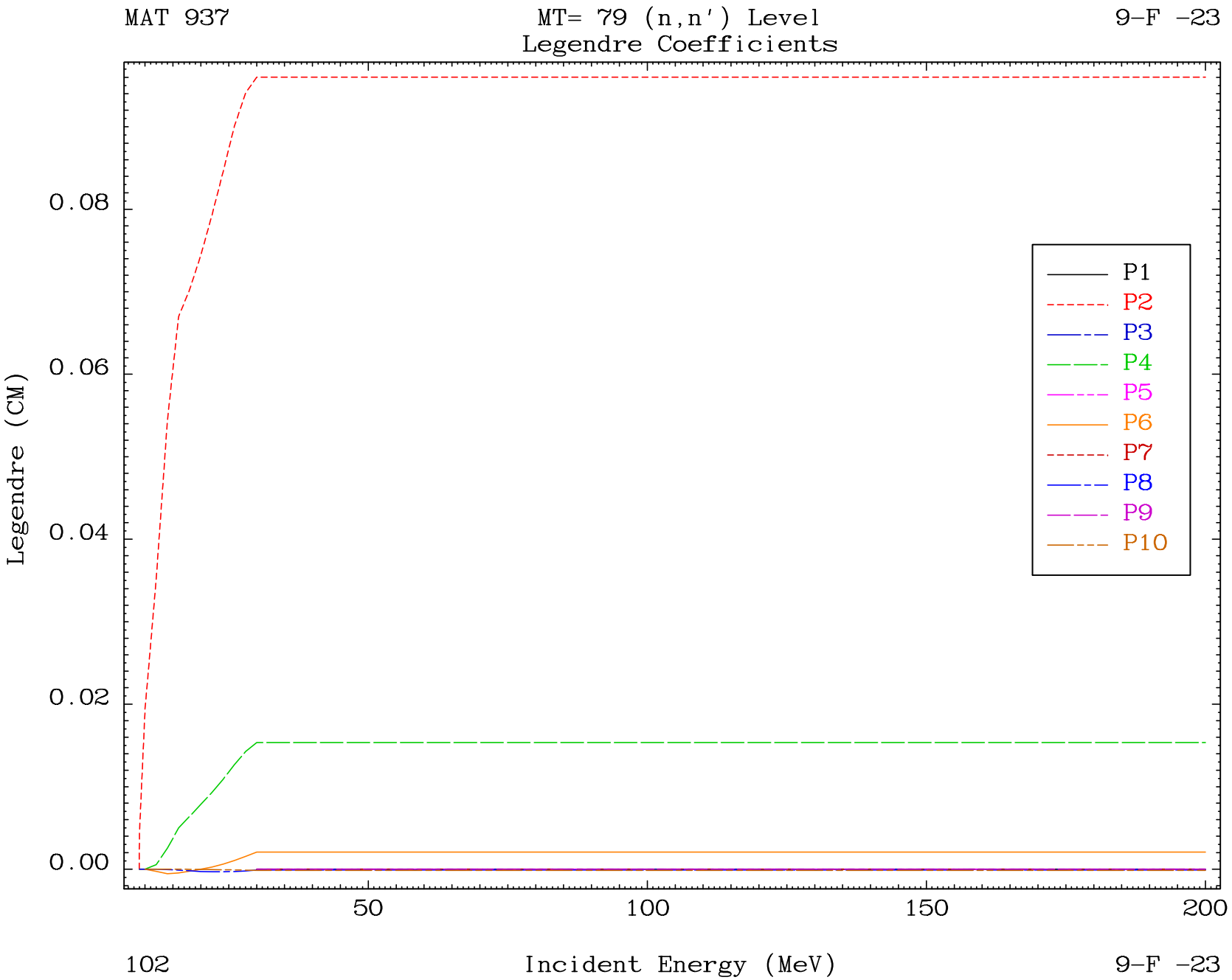

MAT 937
MT= 77 (n,n') Level
Legendre Coefficients
9-F -23
X10 -5
5
4
3
2
1
0
Legendre (CM)
50
100
150
200
97
Incident Energy (MeV)
9-F -23
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20

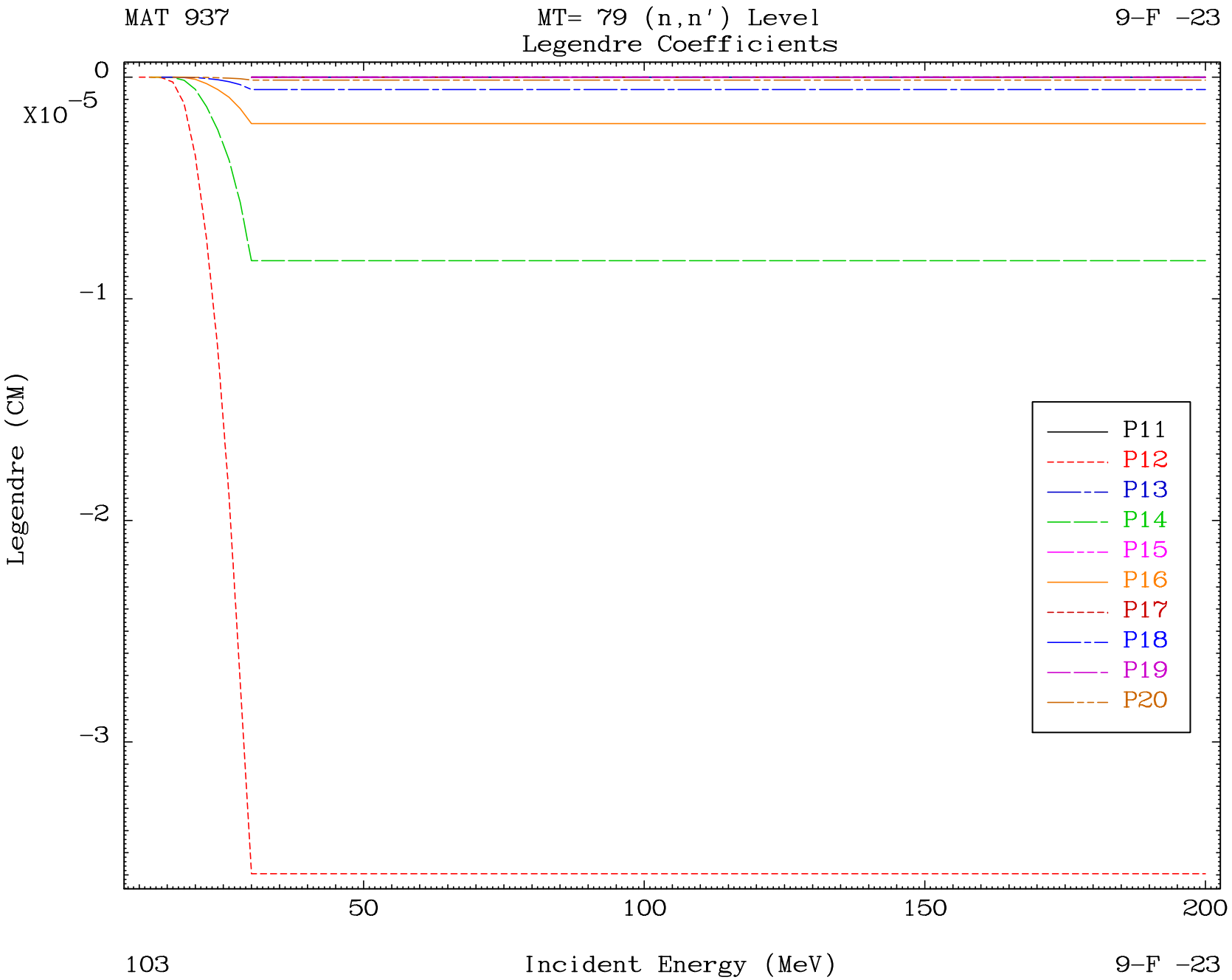

MAT 937
MT= 77 (n,n') Level
Legendre Coefficients
9-F -23
X10 -8
4
3
2
1
0
Legendre (CM)
50
100
150
200
98
Incident Energy (MeV)
9-F -23
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30

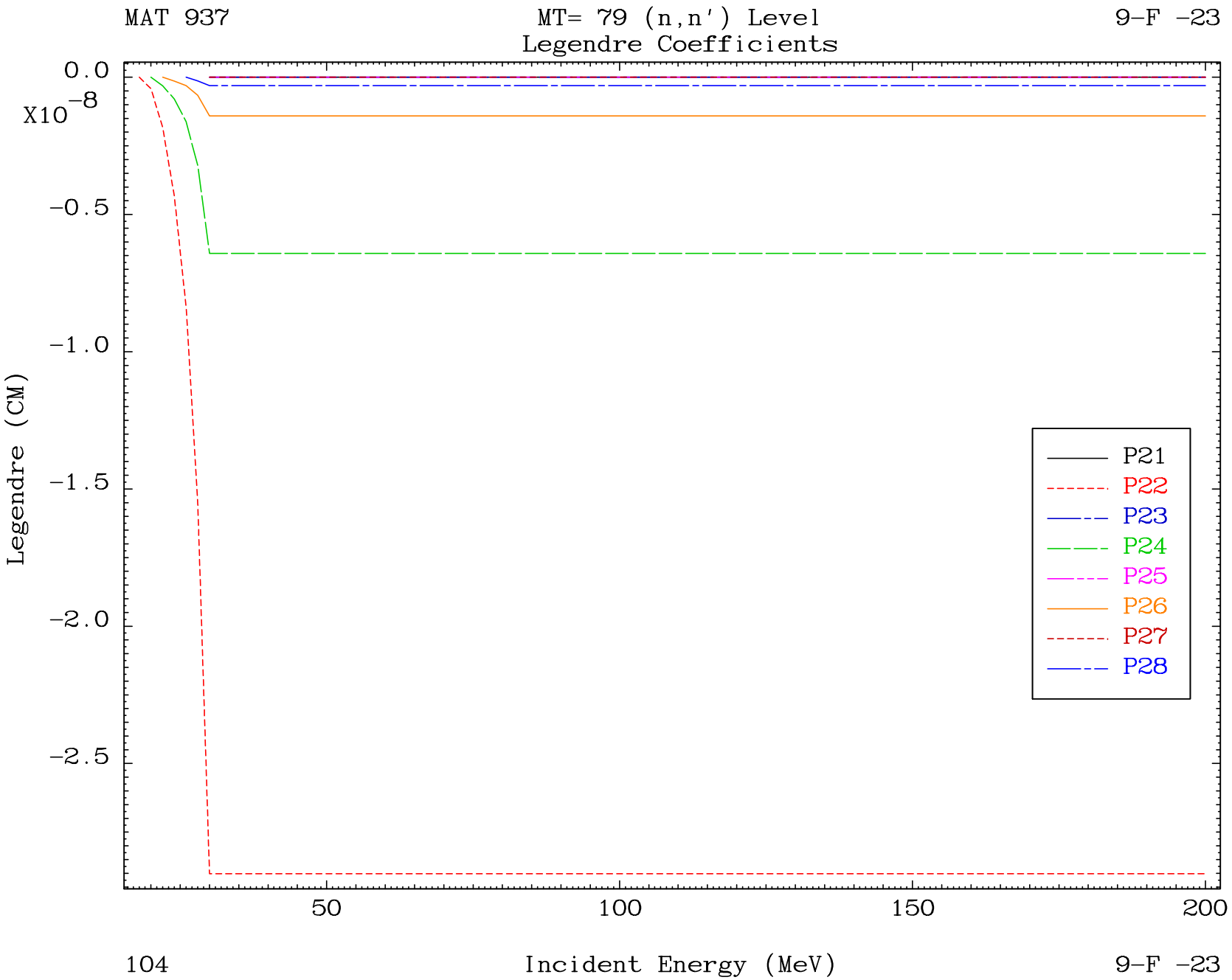

MAT 937
MT= 78 (n,n') Level
Legendre Coefficients
9-F -23
0.08
0.06
0.04
0.02
0.00
Legendre (CM)
50
100
150
200
99
Incident Energy (MeV)
9-F -23
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10


MAT 937
MT= 78 (n,n') Level
Legendre Coefficients
9-F -23
X10-5
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
50
100
150
200
100
Incident Energy (MeV)
9-F -23


MAT 937
MT= 78 (n,n') Level
Legendre Coefficients
9-F -23
X10+-5
1.0
0.5
0.0
Legendre (CM)
50
100
150
200
101
Incident Energy (MeV)
9-F -23
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30


MAT 937
MT= 79 (n,n') Level
Legendre Coefficients
9-F -23
Legendre (CM)
0.08
0.06
0.04
0.02
0.00
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
102
Incident Energy (MeV)
9-F -23


MAT 937
MT= 79 (n,n') Level
Legendre Coefficients
9-F -23
0
X10 -5
-1
-2
-3
Legendre (CM)
50
100
150
200
103
Incident Energy (MeV)
9-F -23
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20


MAT 937
MT= 79 (n,n') Level
Legendre Coefficients
9-F -23
0.0
X10-8
-0.5
-1.0
-1.5
-2.0
-2.5
Legendre (CM)
50
100
150
200
P21
P22
P23
P24
P25
P26
P27
P28
104
Incident Energy (MeV)
9-F -23