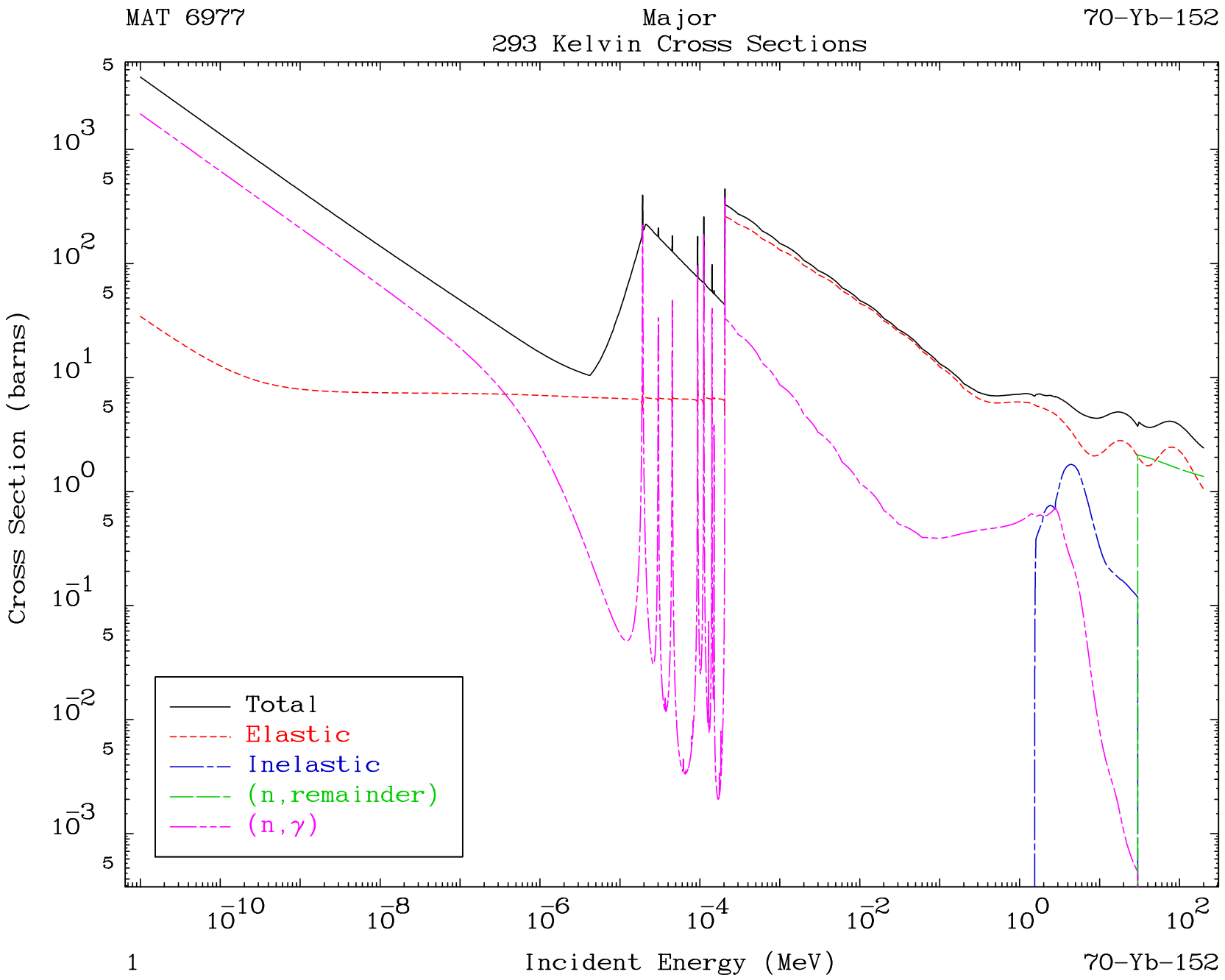
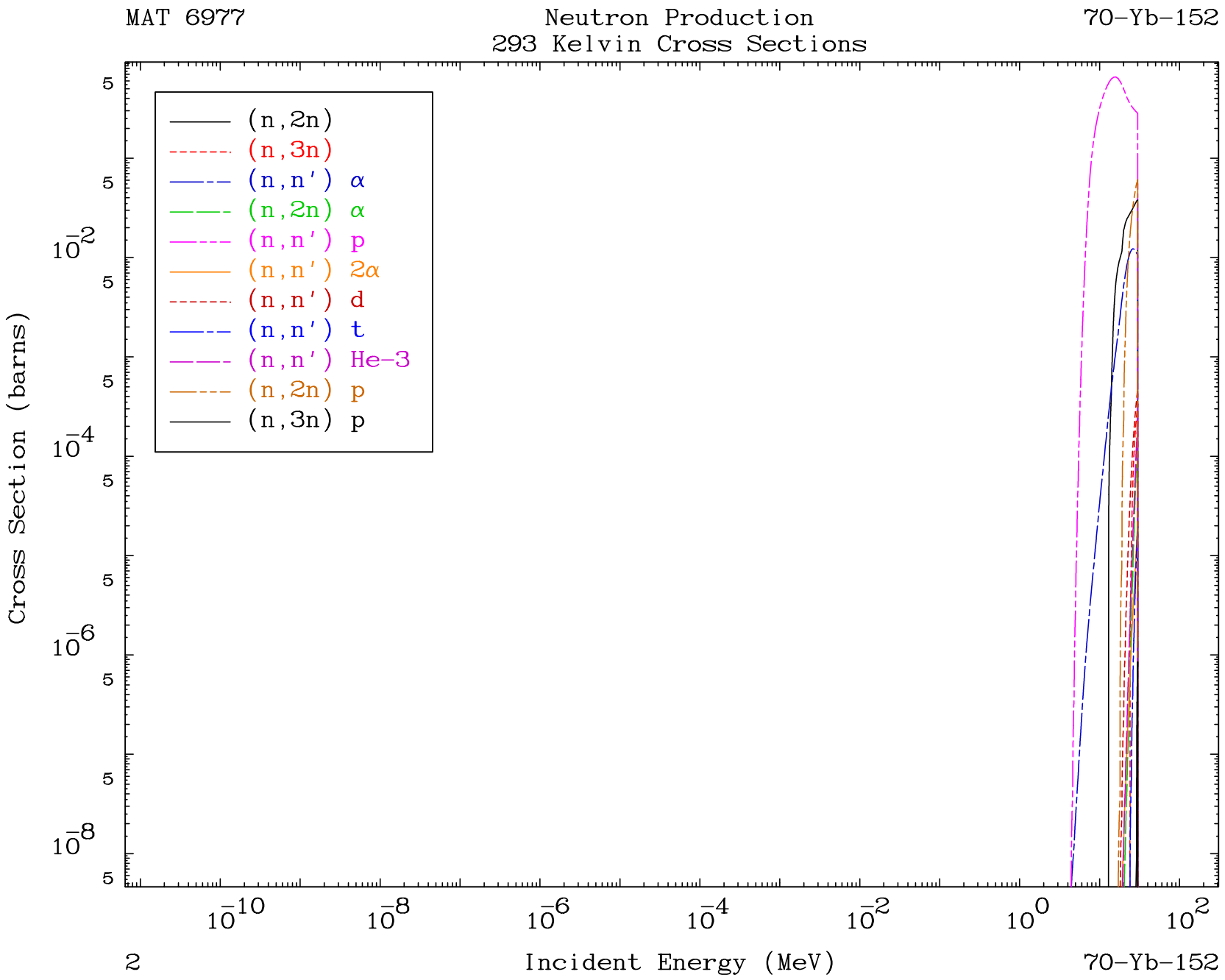
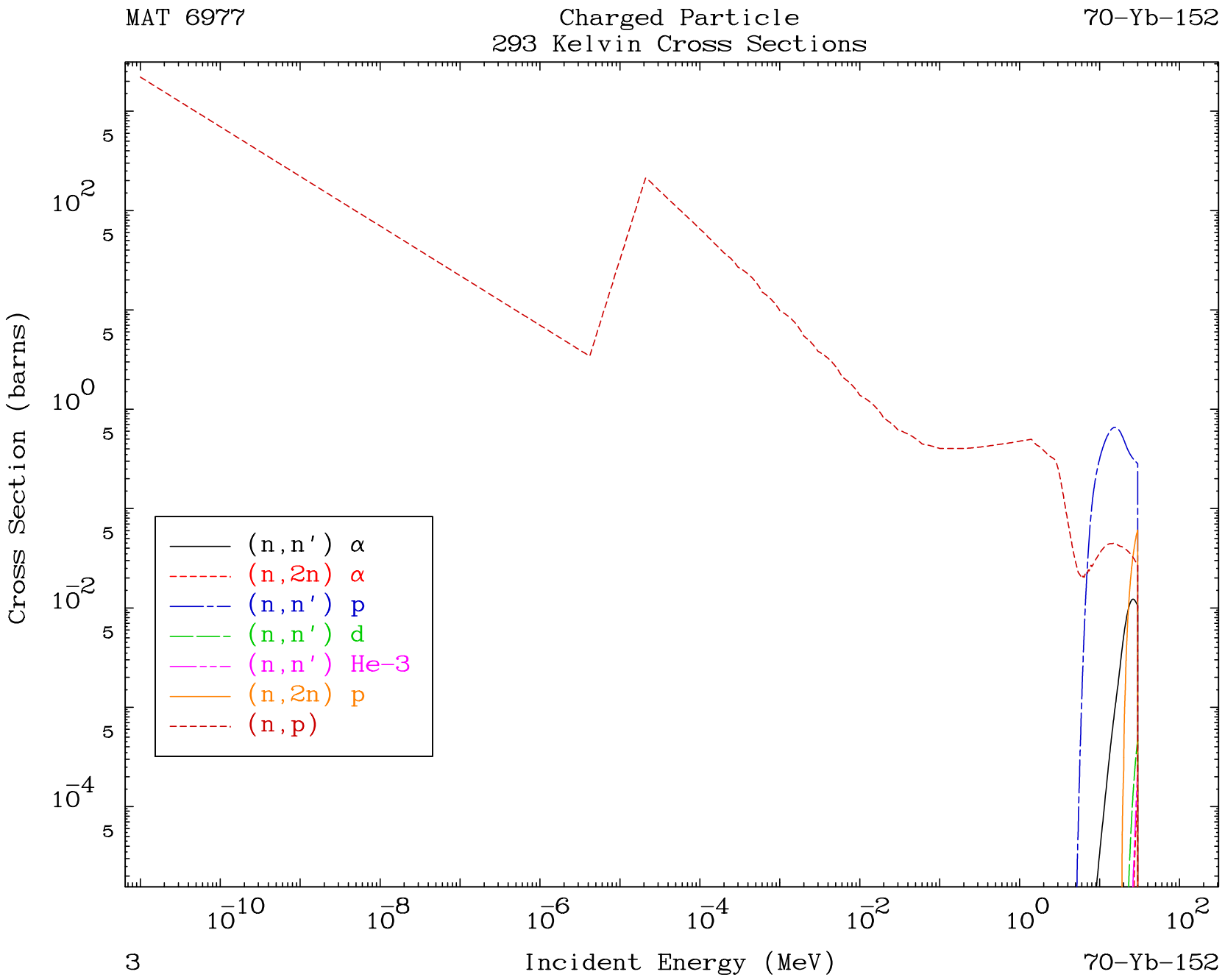
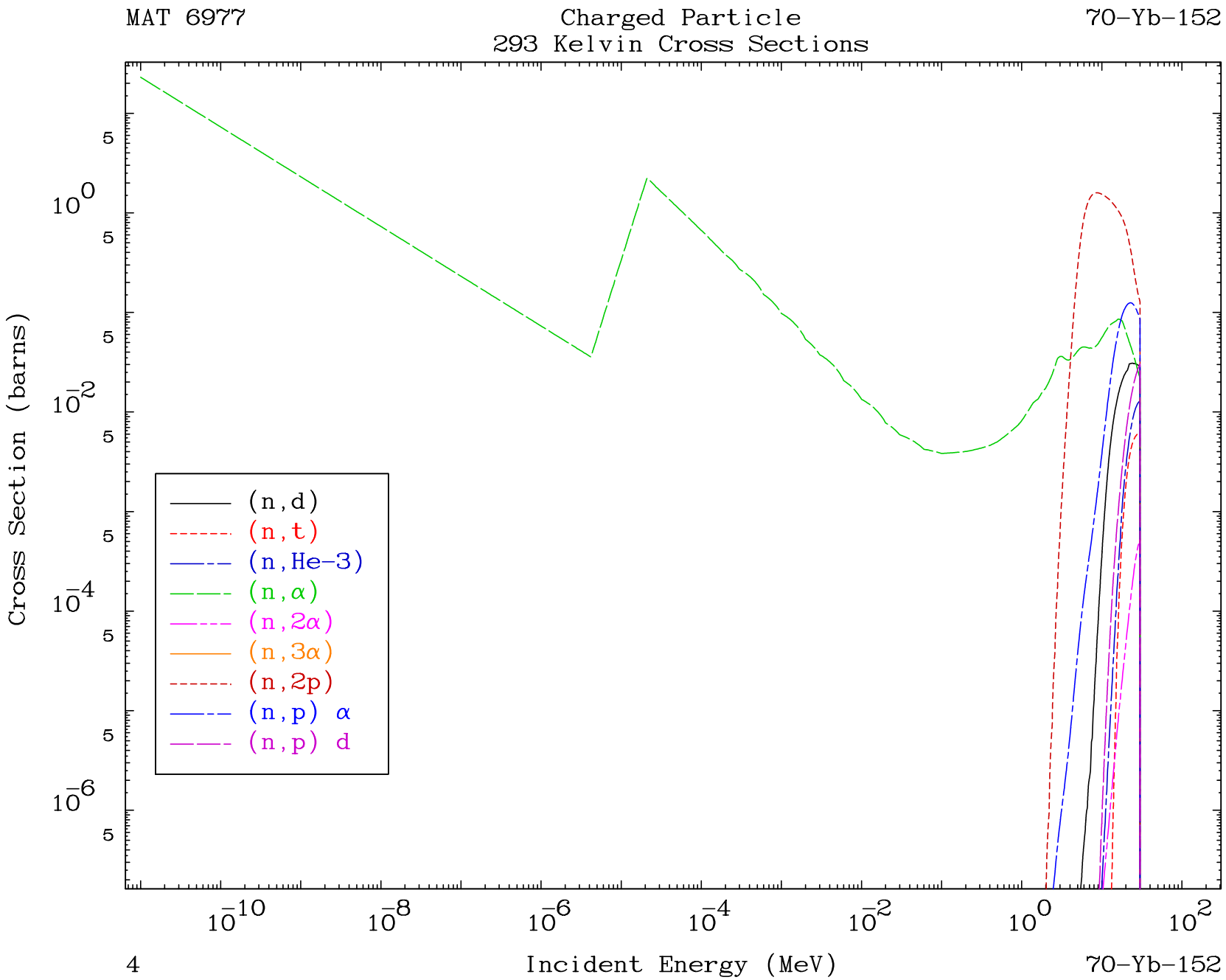
Program EVALPLOT
(Version 2017-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

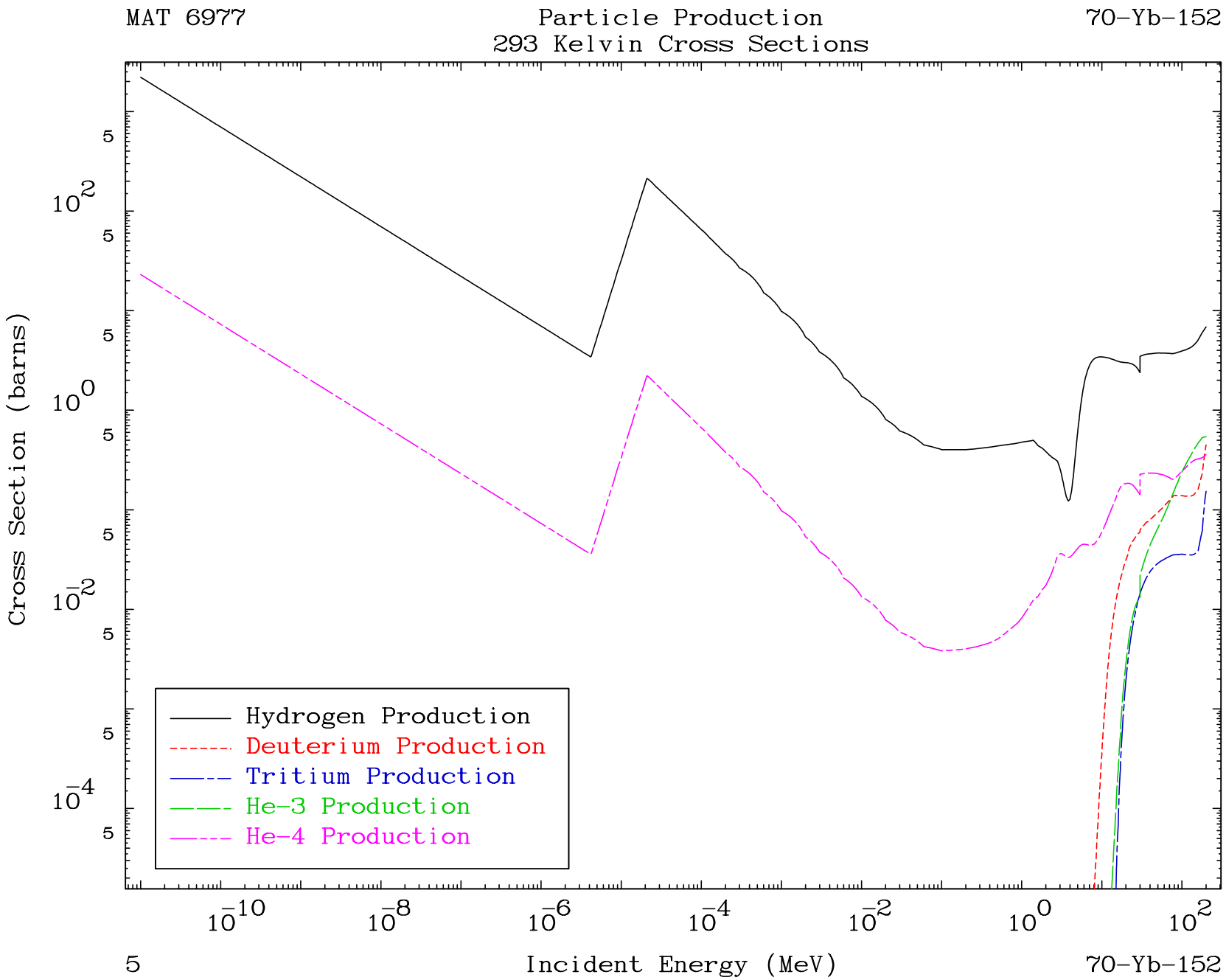
Press Mouse Button to Start

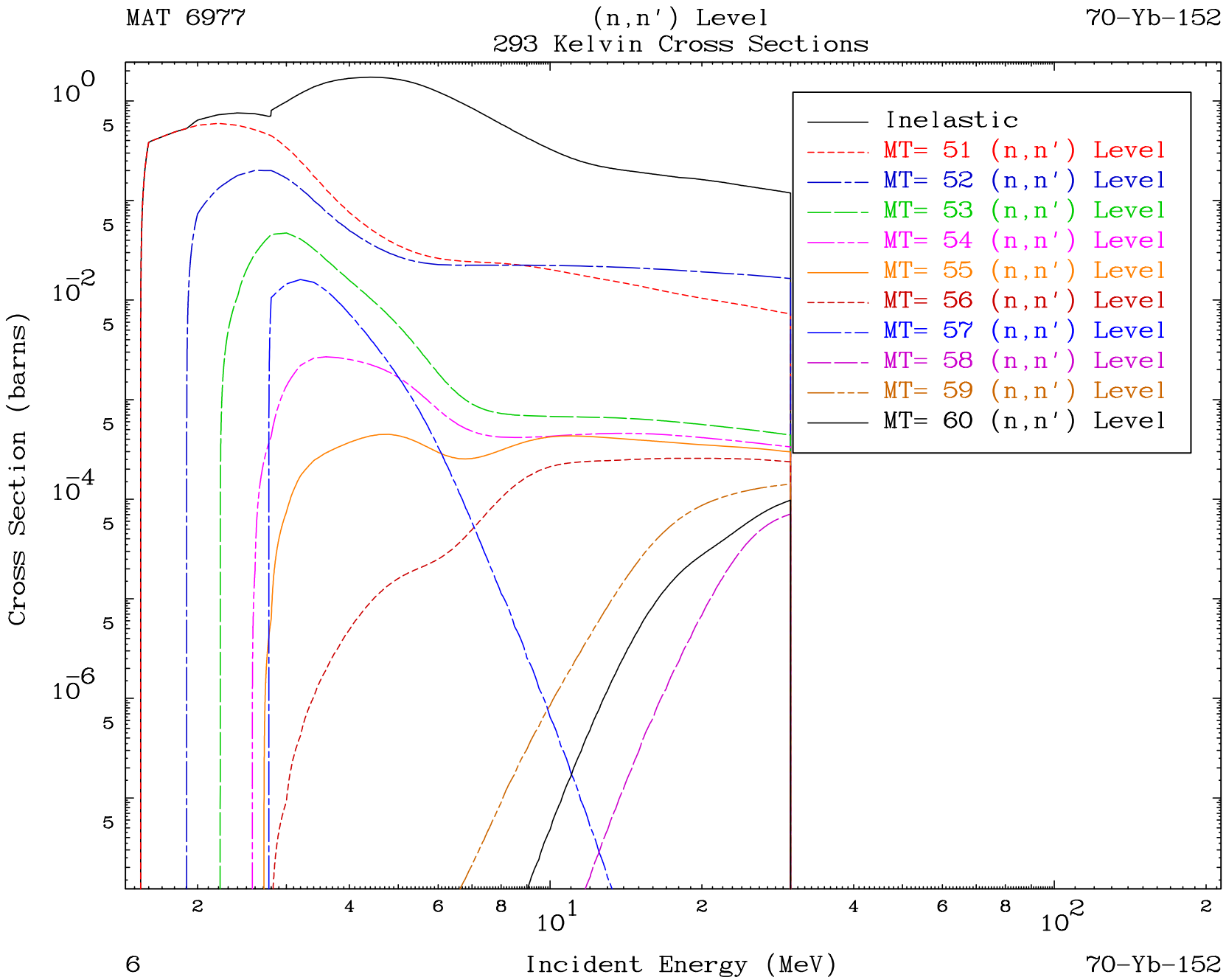

MAT 6977
Major
70-Yb-152
293 Kelvin Cross Sections
Cross Section (barns)
Incident Energy (MeV)
70-Yb-152
1
Total
Elastic
Inelastic
(n,remainder)
(n,γ)

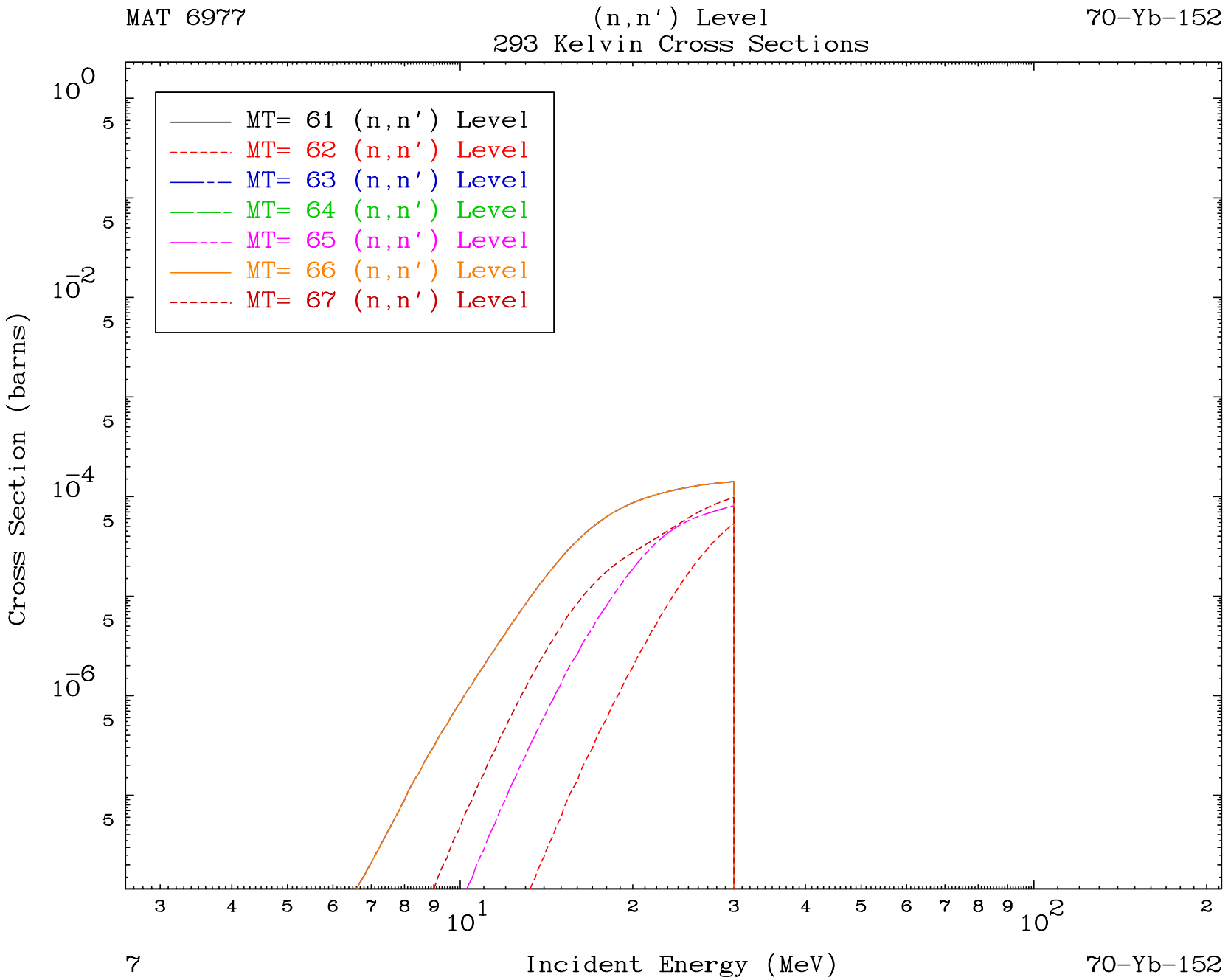

MAT 6977
Neutron Production
293 Kelvin Cross Sections
70-Yb-152
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
(n,3n) p
Cross Section (barns)
Incident Energy (MeV)
2
70-Yb-152

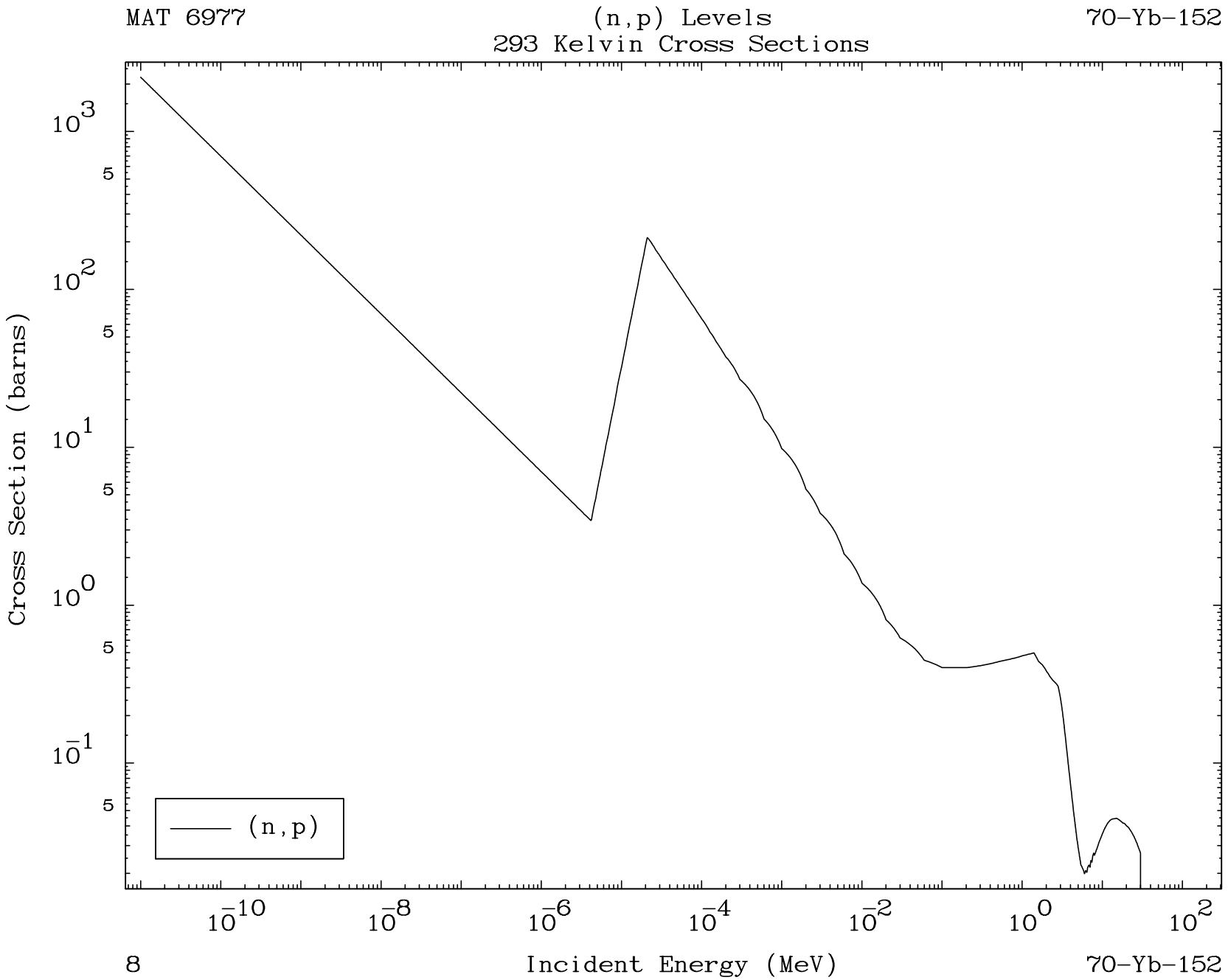

MAT 6977
Charged Particle
293 Kelvin Cross Sections
70-Yb-152
Cross Section (barns)
10^2
10^0
10^-2
10^-4
5
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
Incident Energy (MeV)
(n,n') α
(n,2n) α
(n,n') p
(n,n') d
(n,n') He-3
(n,2n) p
(n,p)
3
70-Yb-152

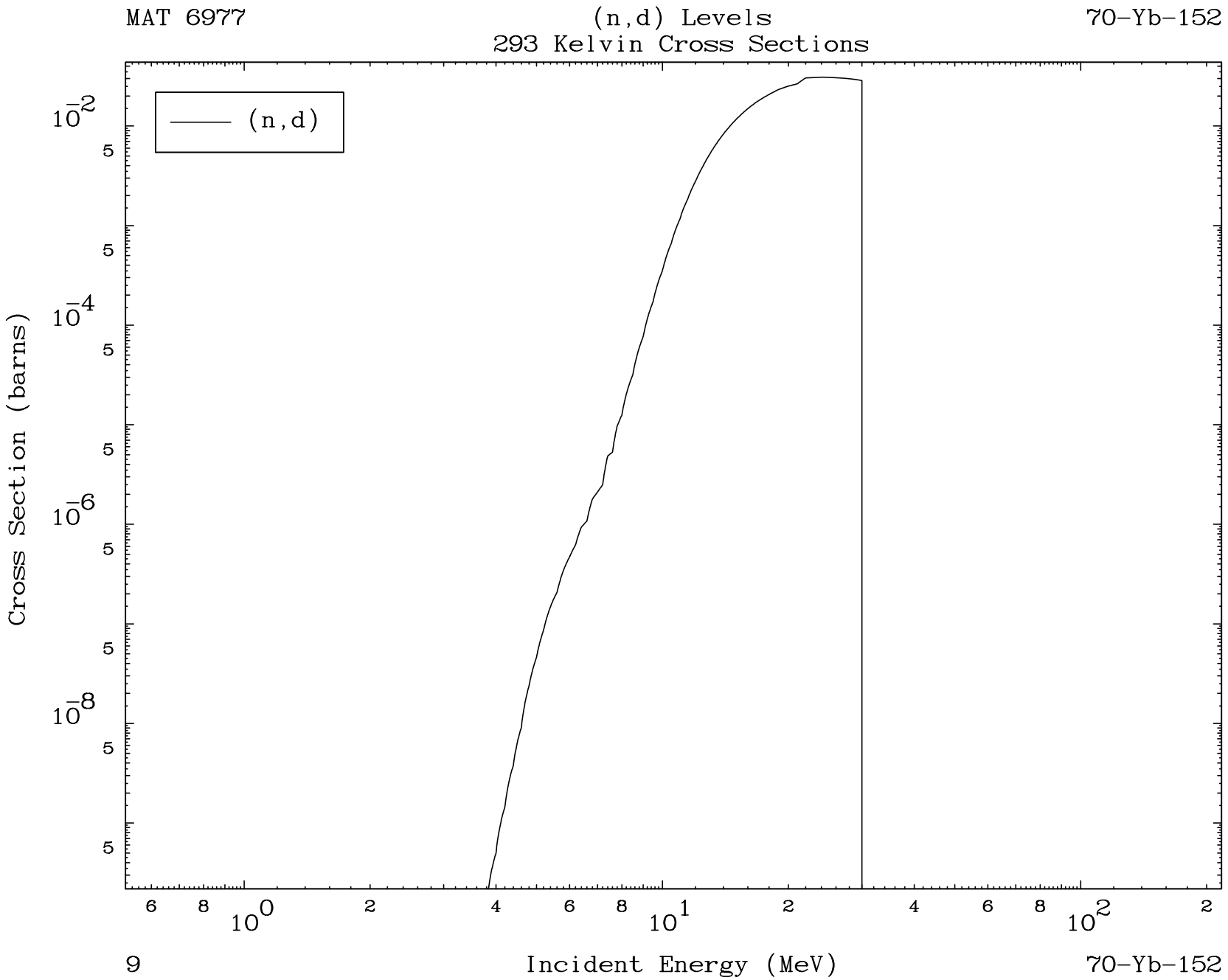

MAT 6977
Charged Particle
293 Kelvin Cross Sections
70-Yb-152
Cross Section (barns)
Incident Energy (MeV)
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,3α)
(n,2p)
(n,p) α
(n,p) d
4
70-Yb-152

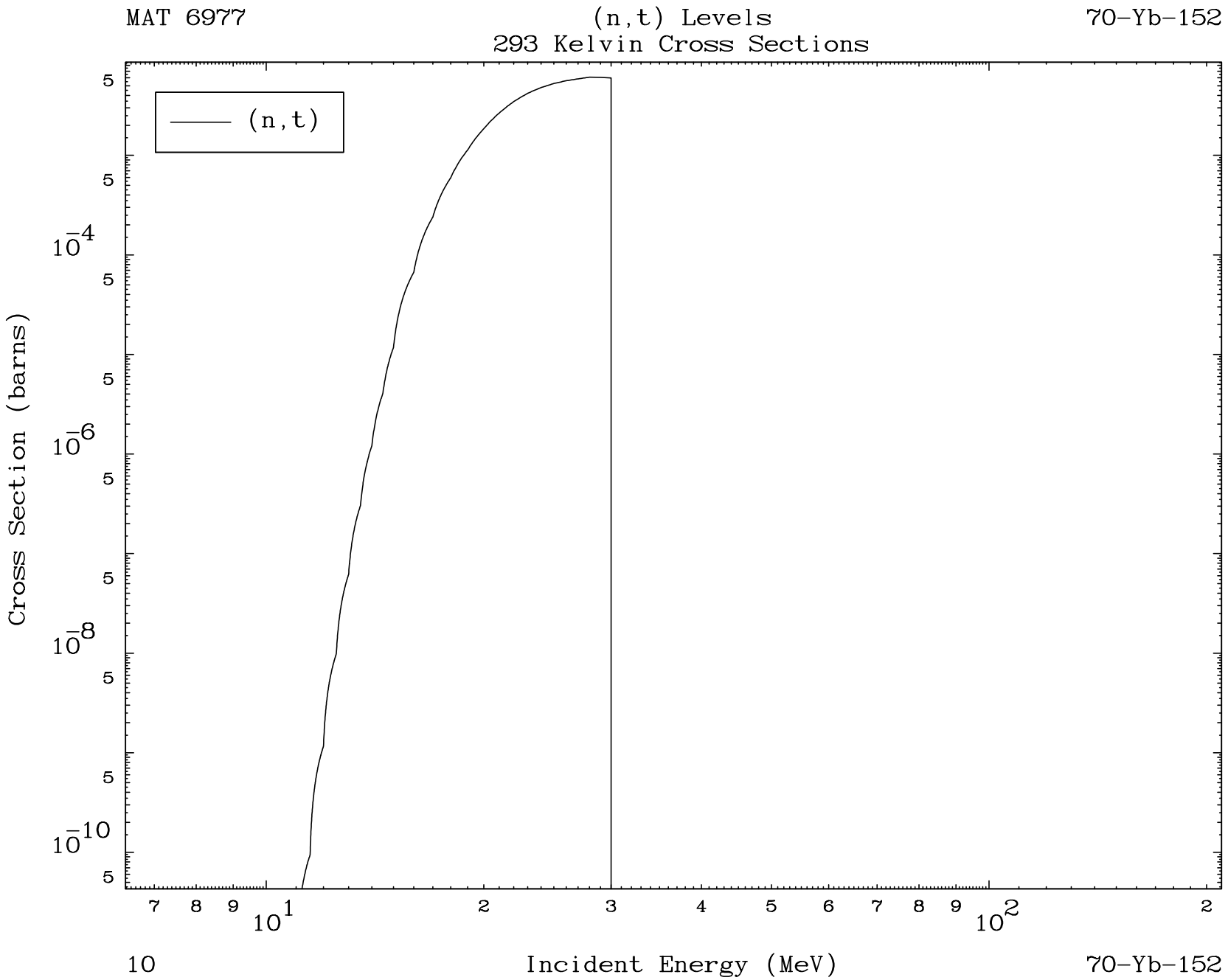

MAT 6977
Particle Production
293 Kelvin Cross Sections
70-Yb-152
Cross Section (barns)
10^2
10^0
10^-2
10^-4
5
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
Incident Energy (MeV)
70-Yb-152

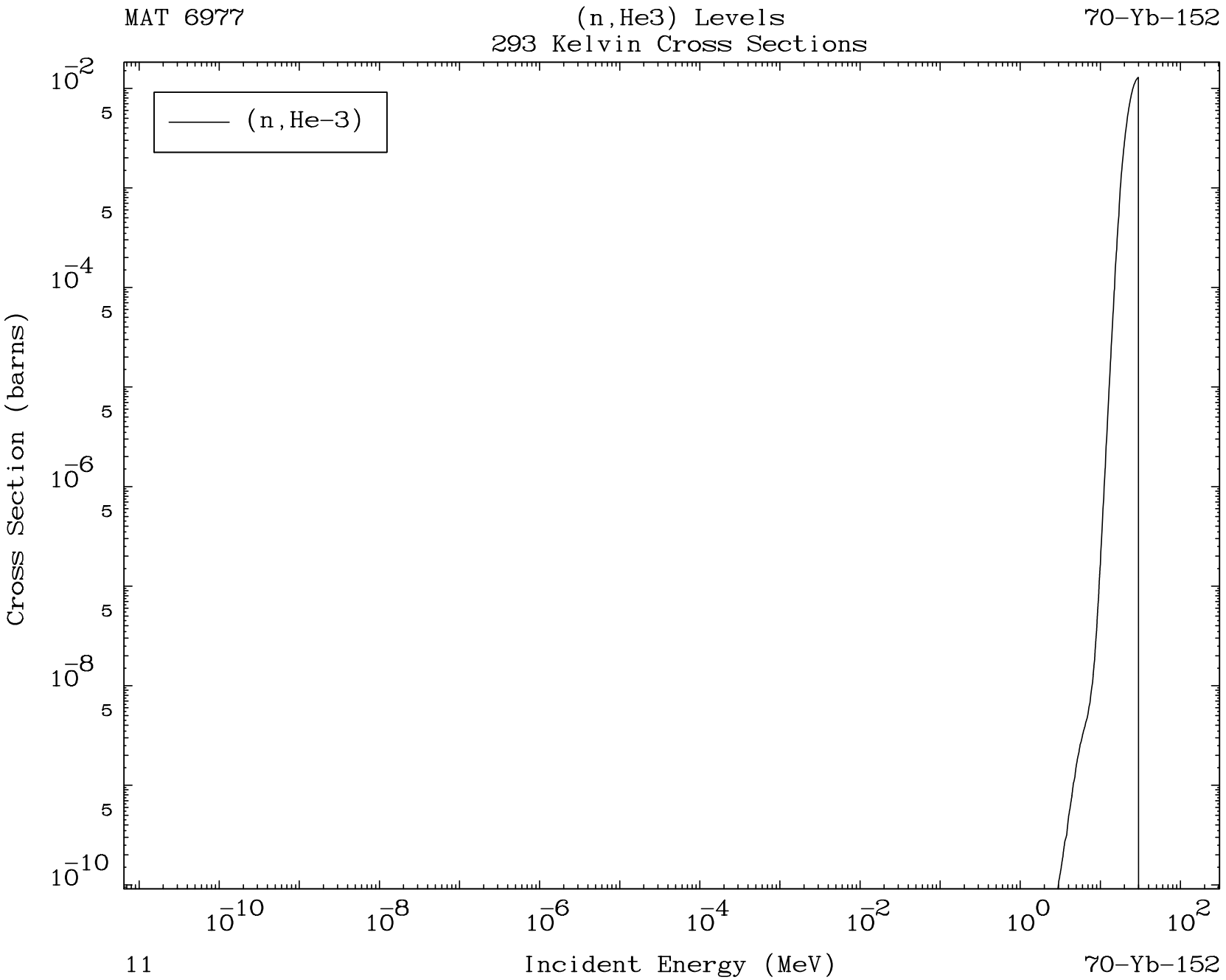

MAT 6977
(n,n') Level
293 Kelvin Cross Sections
70-Yb-152
Cross Section (barns)
Incident Energy (MeV)
Inelastic
MT= 51 (n,n') Level
MT= 52 (n,n') Level
MT= 53 (n,n') Level
MT= 54 (n,n') Level
MT= 55 (n,n') Level
MT= 56 (n,n') Level
MT= 57 (n,n') Level
MT= 58 (n,n') Level
MT= 59 (n,n') Level
MT= 60 (n,n') Level
6
70-Yb-152

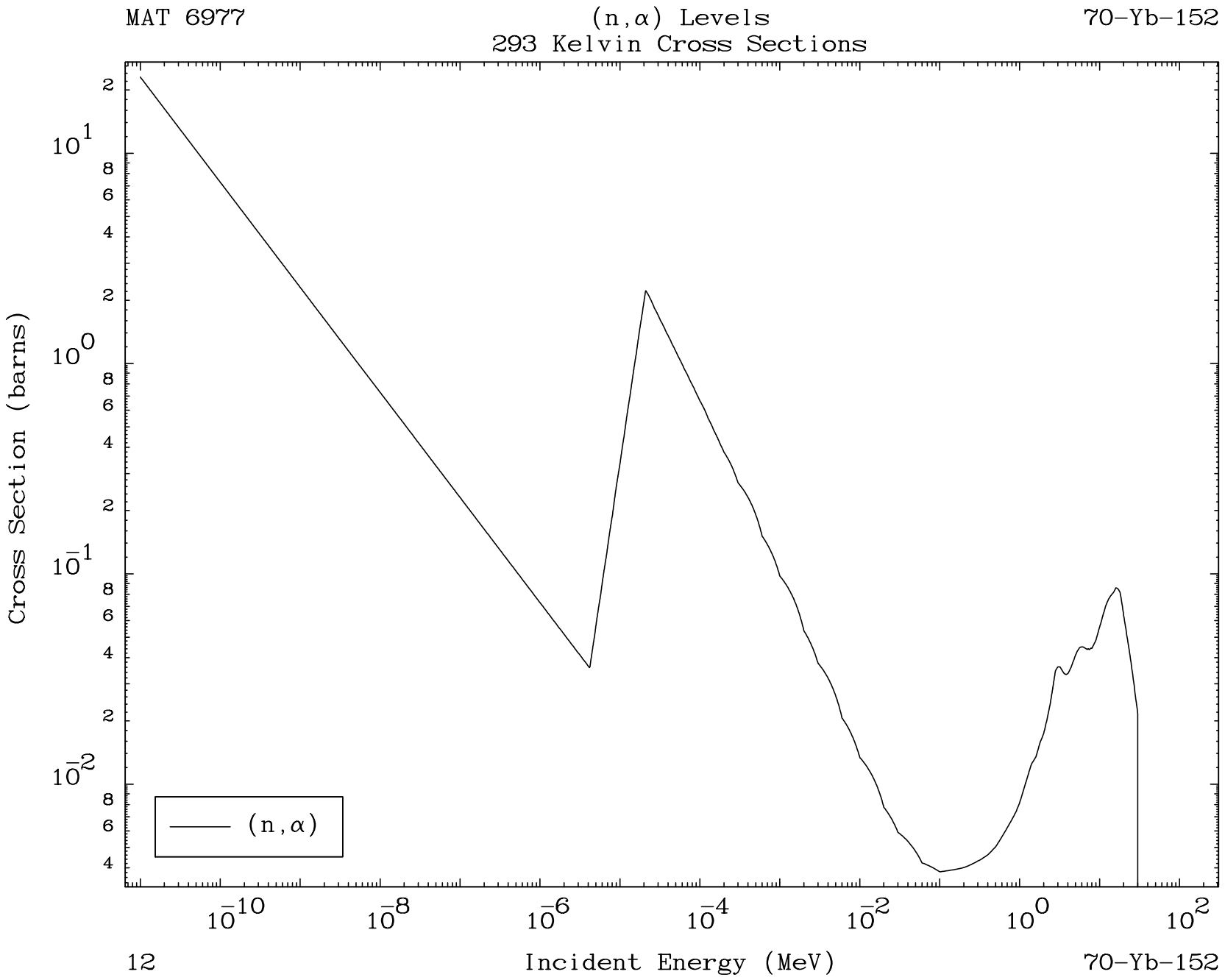

MAT 6977
(n,n') Level
70-Yb-152
293 Kelvin Cross Sections
MT= 61 (n,n') Level
MT= 62 (n,n') Level
MT= 63 (n,n') Level
MT= 64 (n,n') Level
MT= 65 (n,n') Level
MT= 66 (n,n') Level
MT= 67 (n,n') Level
Cross Section (barns)
Incident Energy (MeV)
70-Yb-152
7

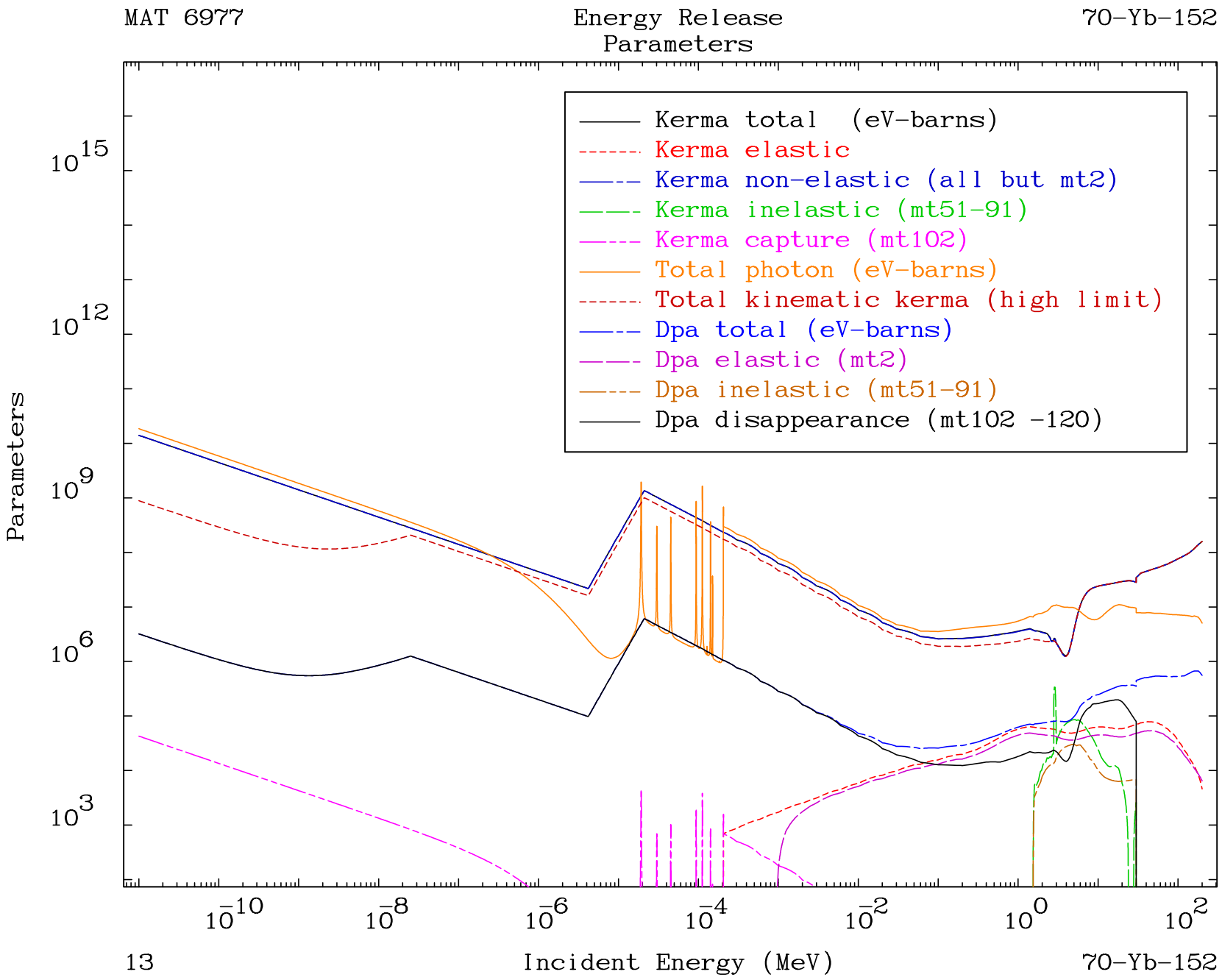

MAT 6977
(n,p) Levels
70-Yb-152
293 Kelvin Cross Sections
Cross Section (barns)
10^3
5
10^2
5
10^1
5
10^0
5
10^-1
5
(n,p)
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
Incident Energy (MeV)
8
70-Yb-152

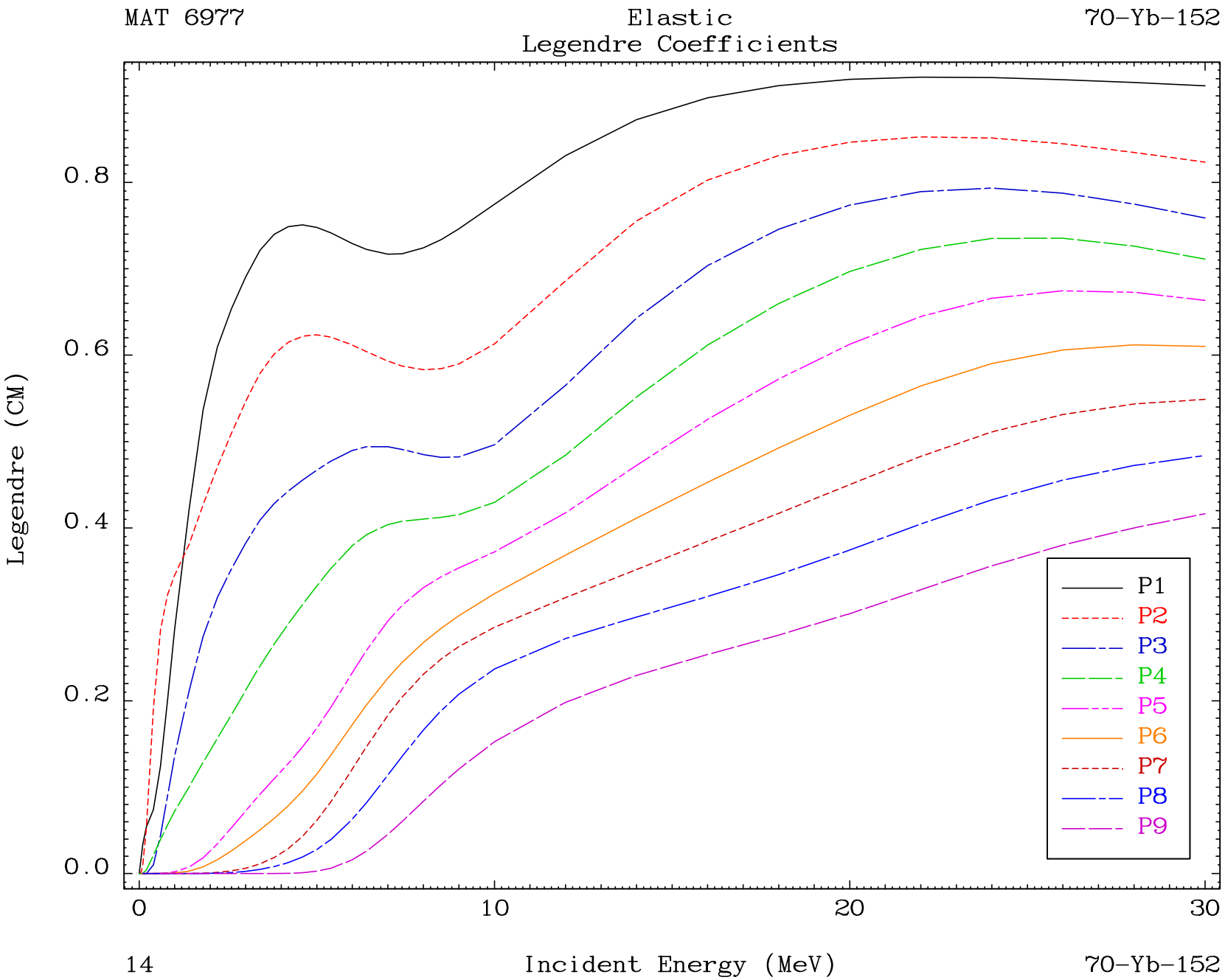

MAT 6977
(n,d) Levels
70-Yb-152
293 Kelvin Cross Sections
(n,d)
Cross Section (barns)
Incident Energy (MeV)
9
70-Yb-152

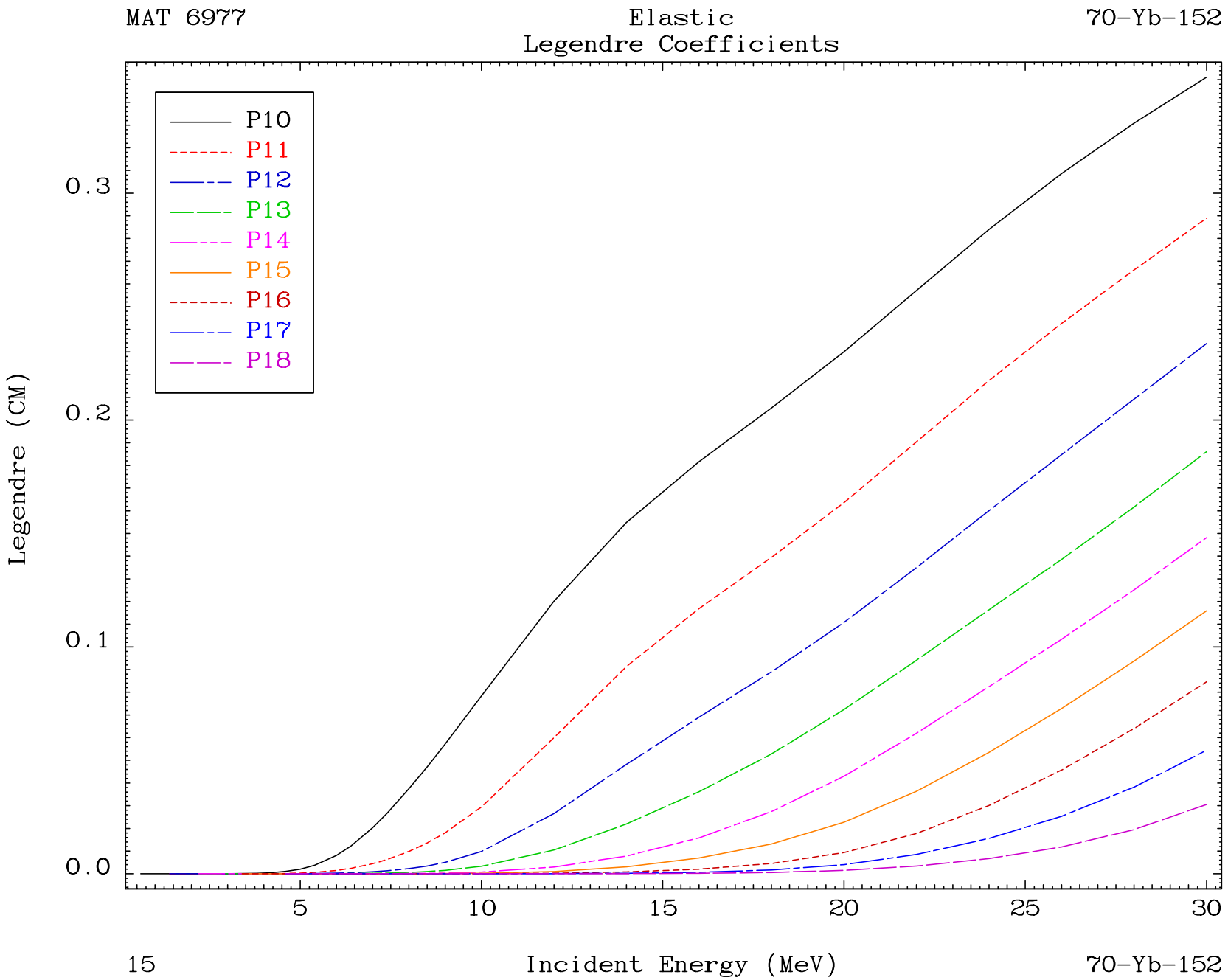

MAT 6977
(n,t) Levels
70-Yb-152
293 Kelvin Cross Sections
(n,t)
Cross Section (barns)
Incident Energy (MeV)
70-Yb-152

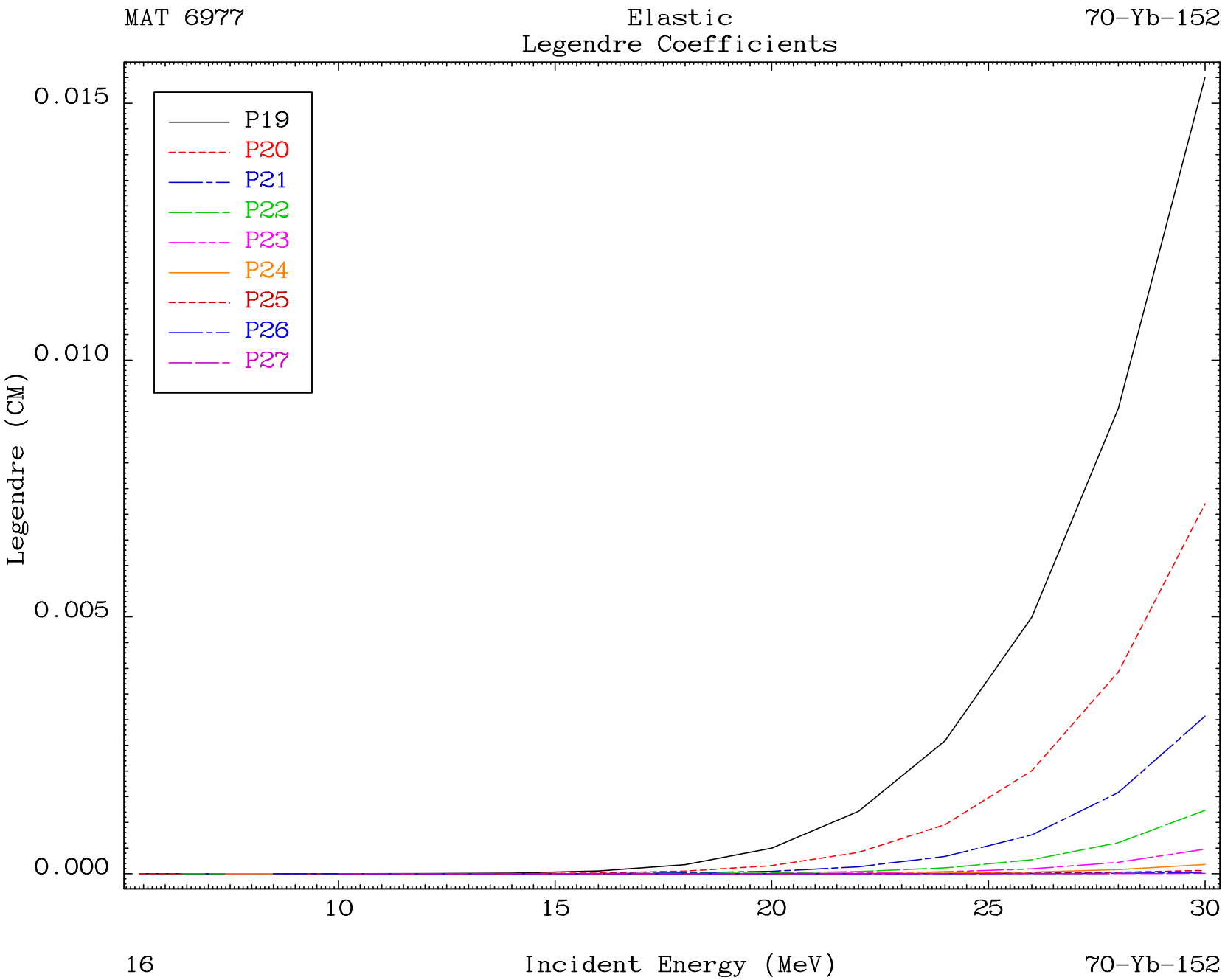

MAT 6977
(n,He3) Levels
70-Yb-152
293 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
Incident Energy (MeV)
11
70-Yb-152

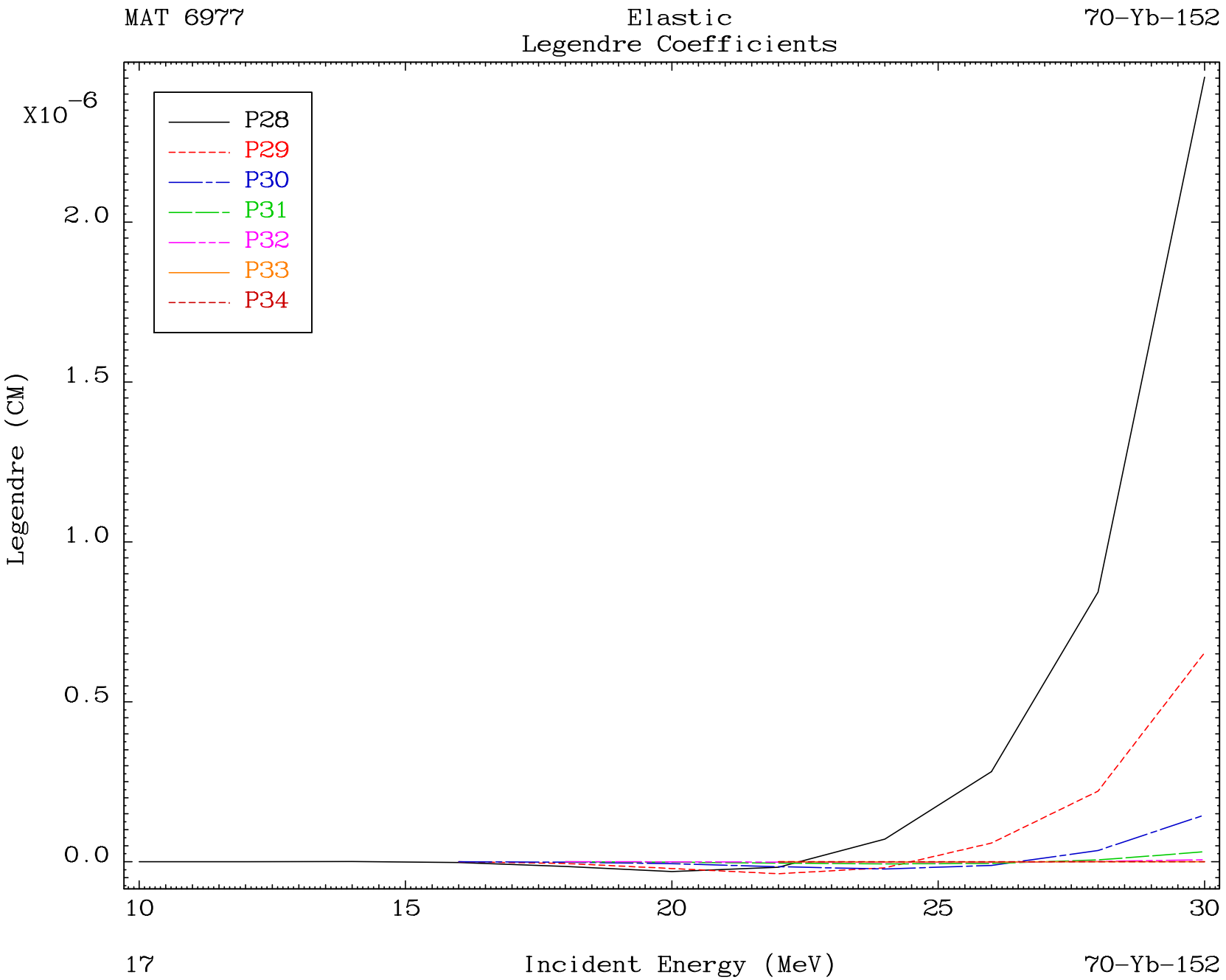

MAT 6977
(n,α) Levels
70-Yb-152
293 Kelvin Cross Sections
Cross Section (barns)
(n,α)
Incident Energy (MeV)
12
70-Yb-152

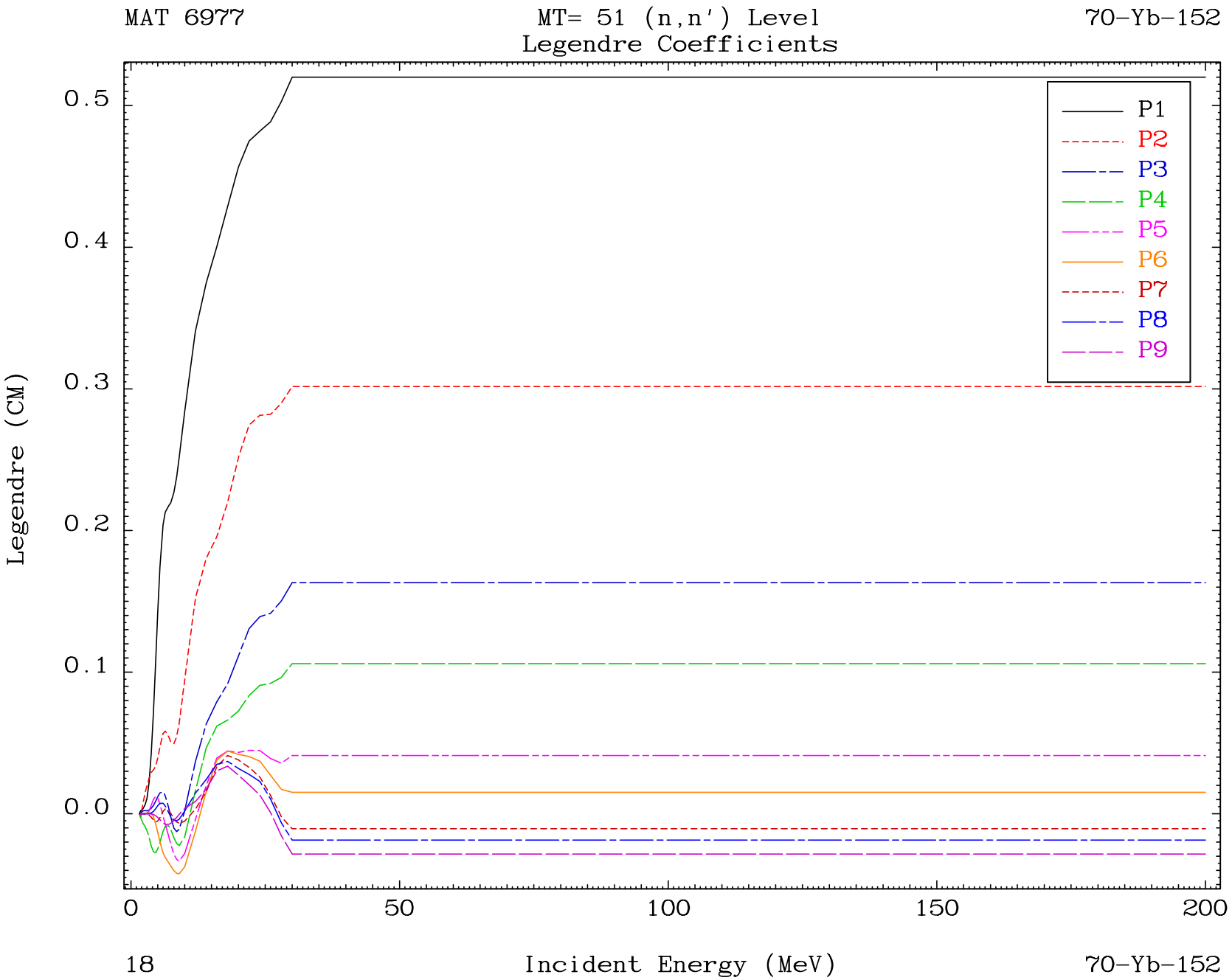

MAT 6977
Energy Release
Parameters
70-Yb-152
Kerma total (eV-barns)
Kerma elastic
Kerma non-elastic (all but mt2)
Kerma inelastic (mt51-91)
Kerma capture (mt102)
Total photon (eV-barns)
Total kinematic kerma (high limit)
Dpa total (eV-barns)
Dpa elastic (mt2)
Dpa inelastic (mt51-91)
Dpa disappearance (mt102 -120)
Parameters
10^15
10^12
10^9
10^6
10^3
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
13
Incident Energy (MeV)
70-Yb-152

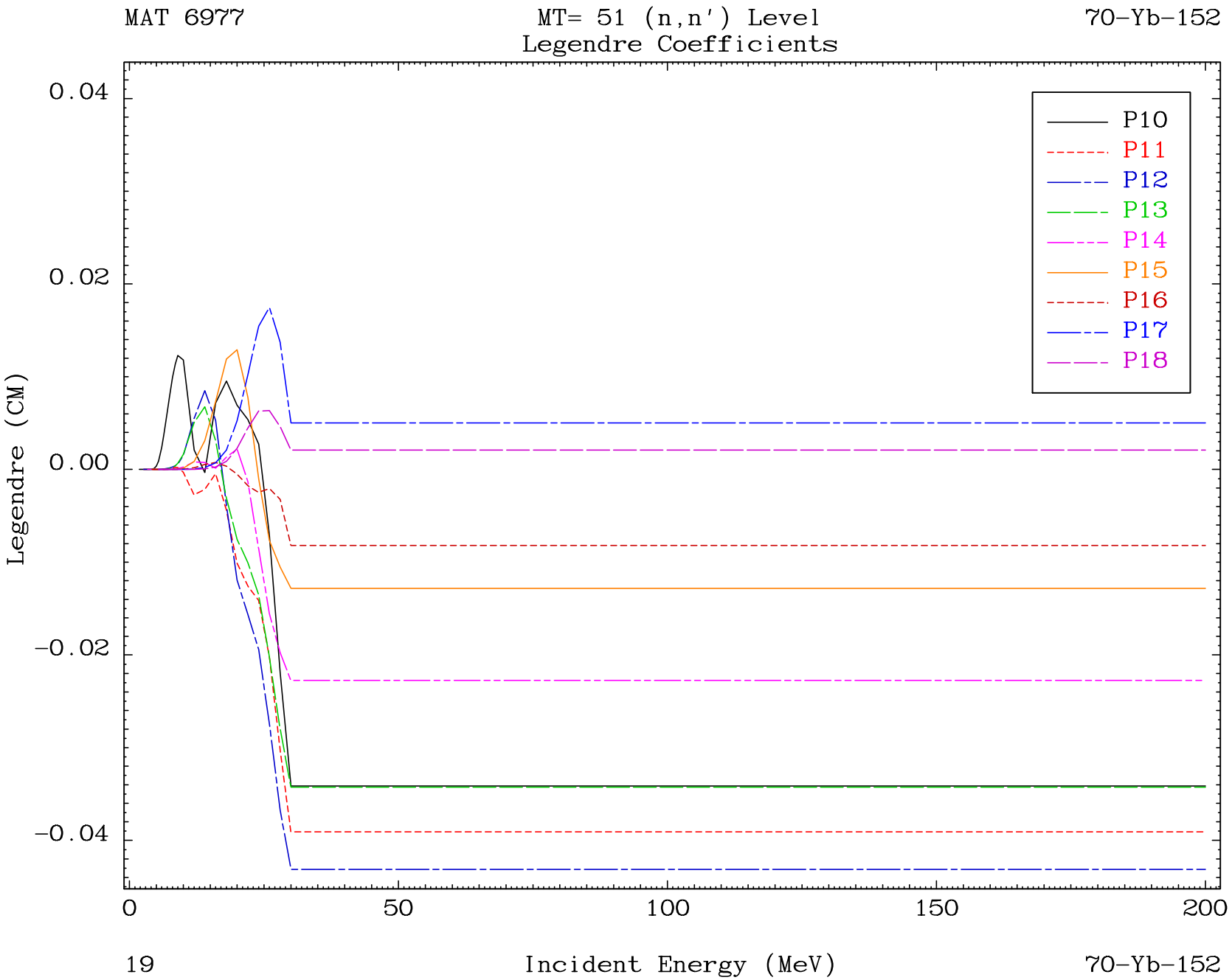

MAT 6977
Elastic
Legendre Coefficients
70-Yb-152
Legendre (CM)
0.0
0.2
0.4
0.6
0.8
0
10
20
30
14
Incident Energy (MeV)
70-Yb-152
P1
P2
P3
P4
P5
P6
P7
P8
P9

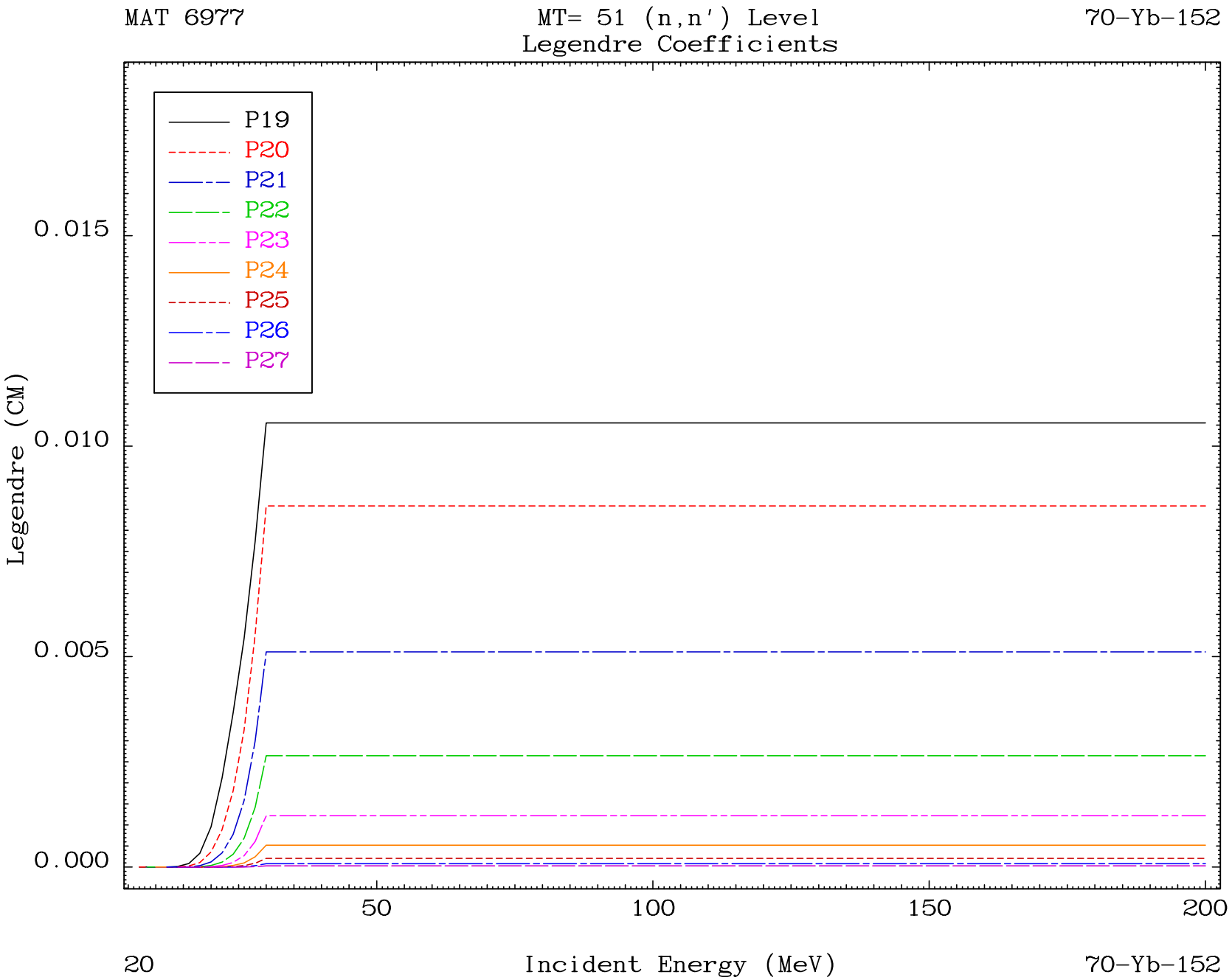

MAT 6977
Elastic
Legendre Coefficients
70-Yb-152
P10
P11
P12
P13
P14
P15
P16
P17
P18
Legendre (CM)
0.0
0.1
0.2
0.3
5
10
15
20
25
30
15
Incident Energy (MeV)
70-Yb-152

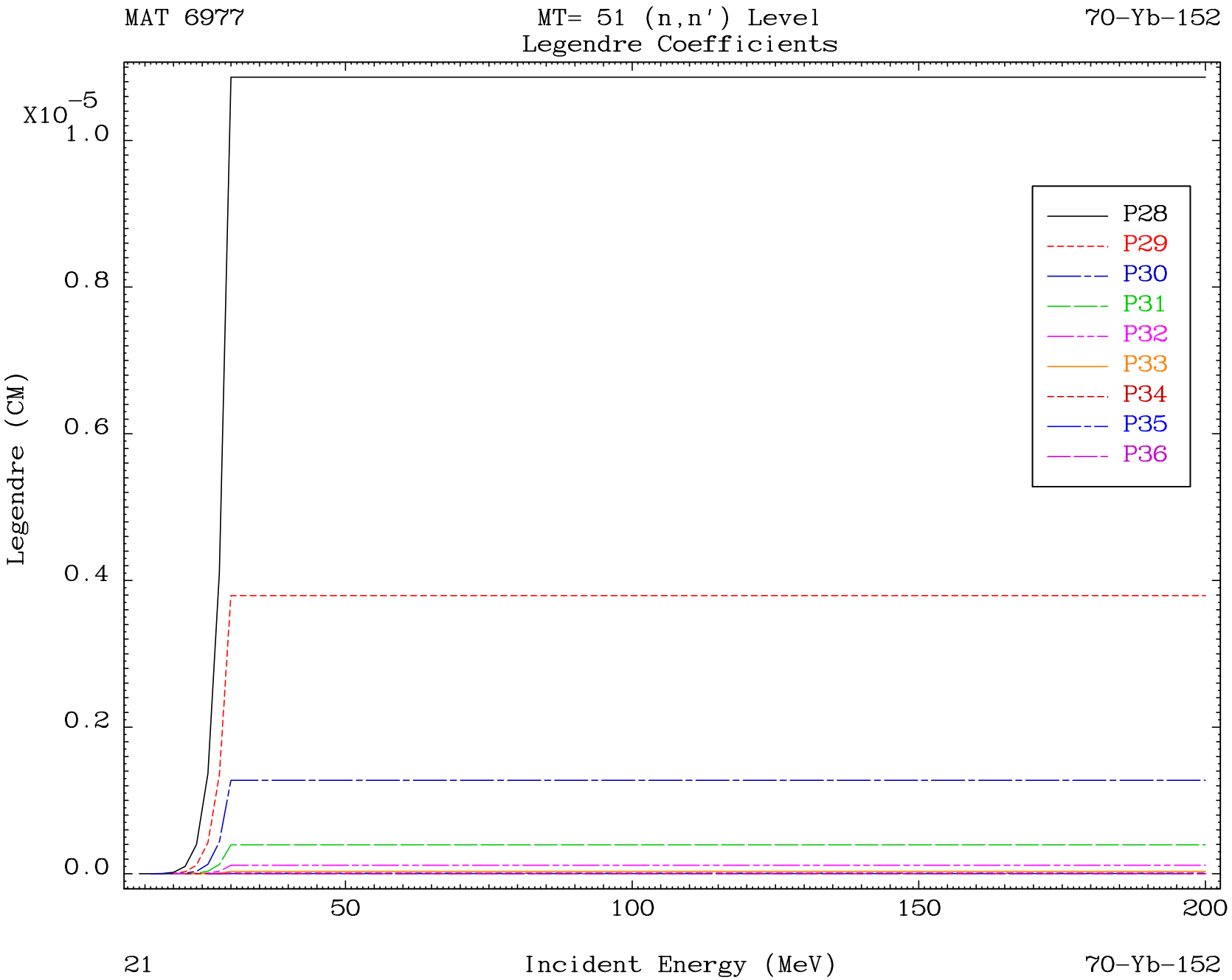

MAT 6977
Elastic
Legendre Coefficients
70-Yb-152
P19
P20
P21
P22
P23
P24
P25
P26
P27
0.015
0.010
0.005
0.000
Legendre (CM)
10
15
20
25
30
16
Incident Energy (MeV)
70-Yb-152

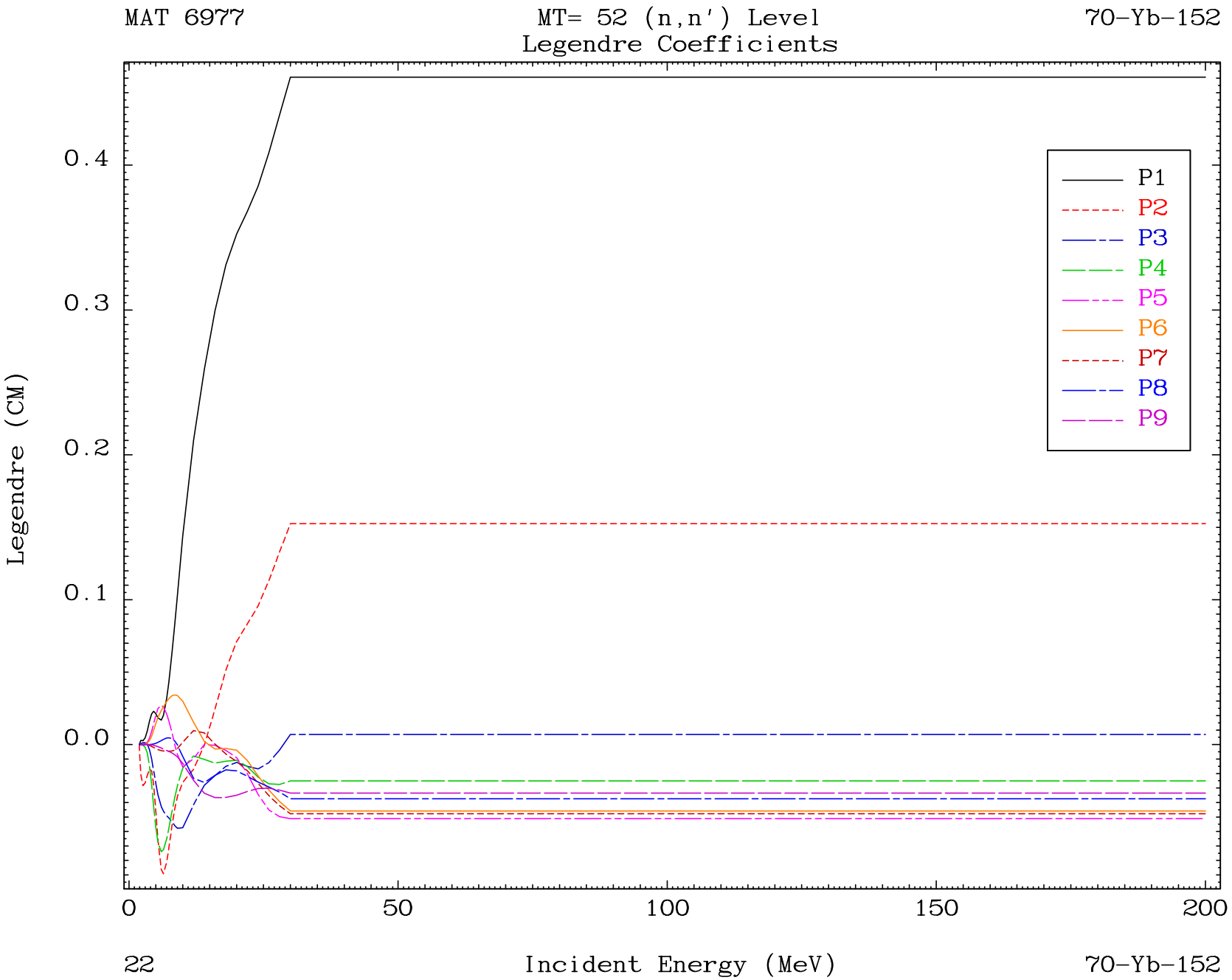

MAT 6977
Elastic
Legendre Coefficients
70-Yb-152
X10^-6
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
10
15
20
25
30
17
Incident Energy (MeV)
70-Yb-152

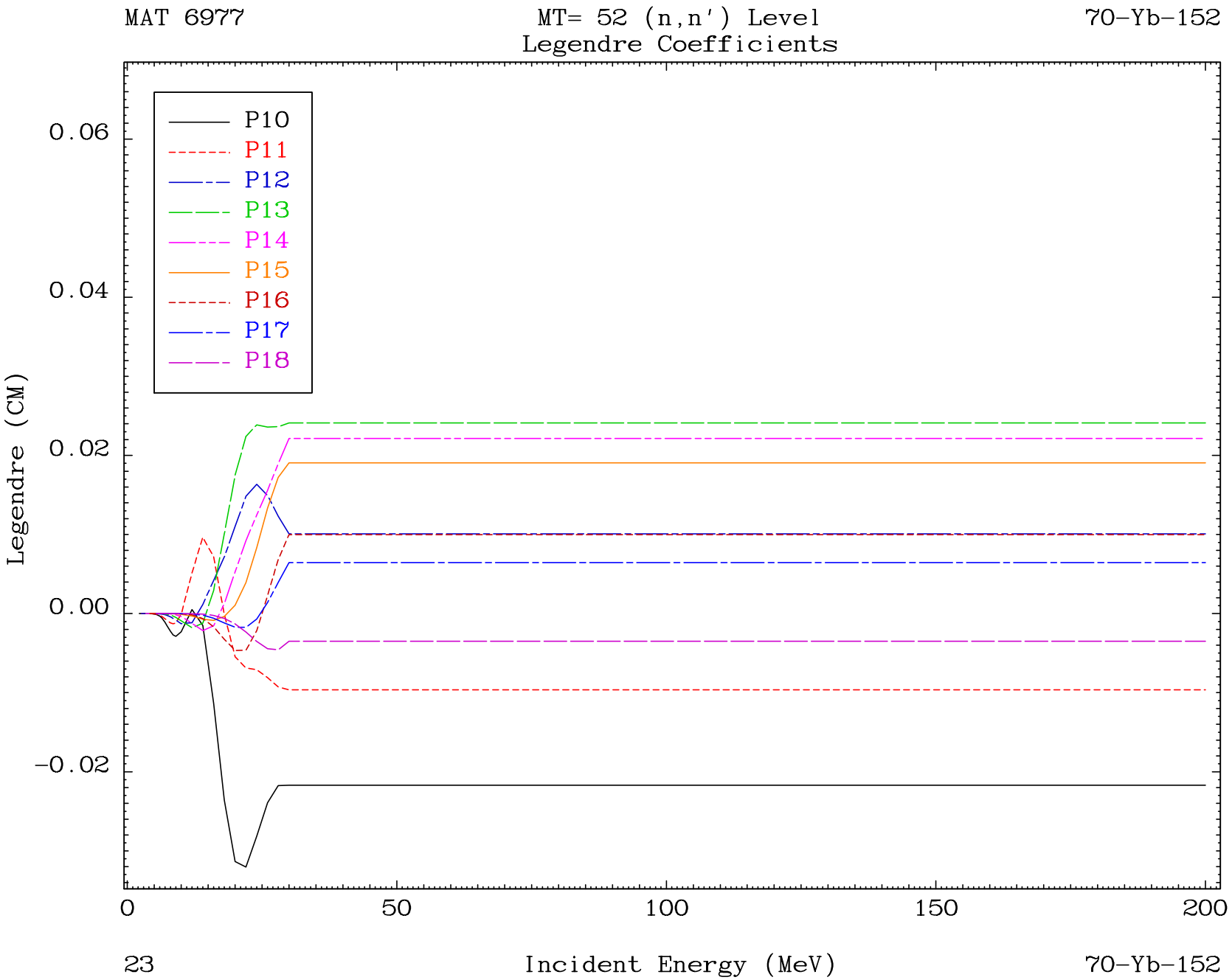

MAT 6977
MT= 51 (n,n') Level
Legendre Coefficients
70-Yb-152
Legendre (CM)
0.5
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
18
Incident Energy (MeV)
70-Yb-152

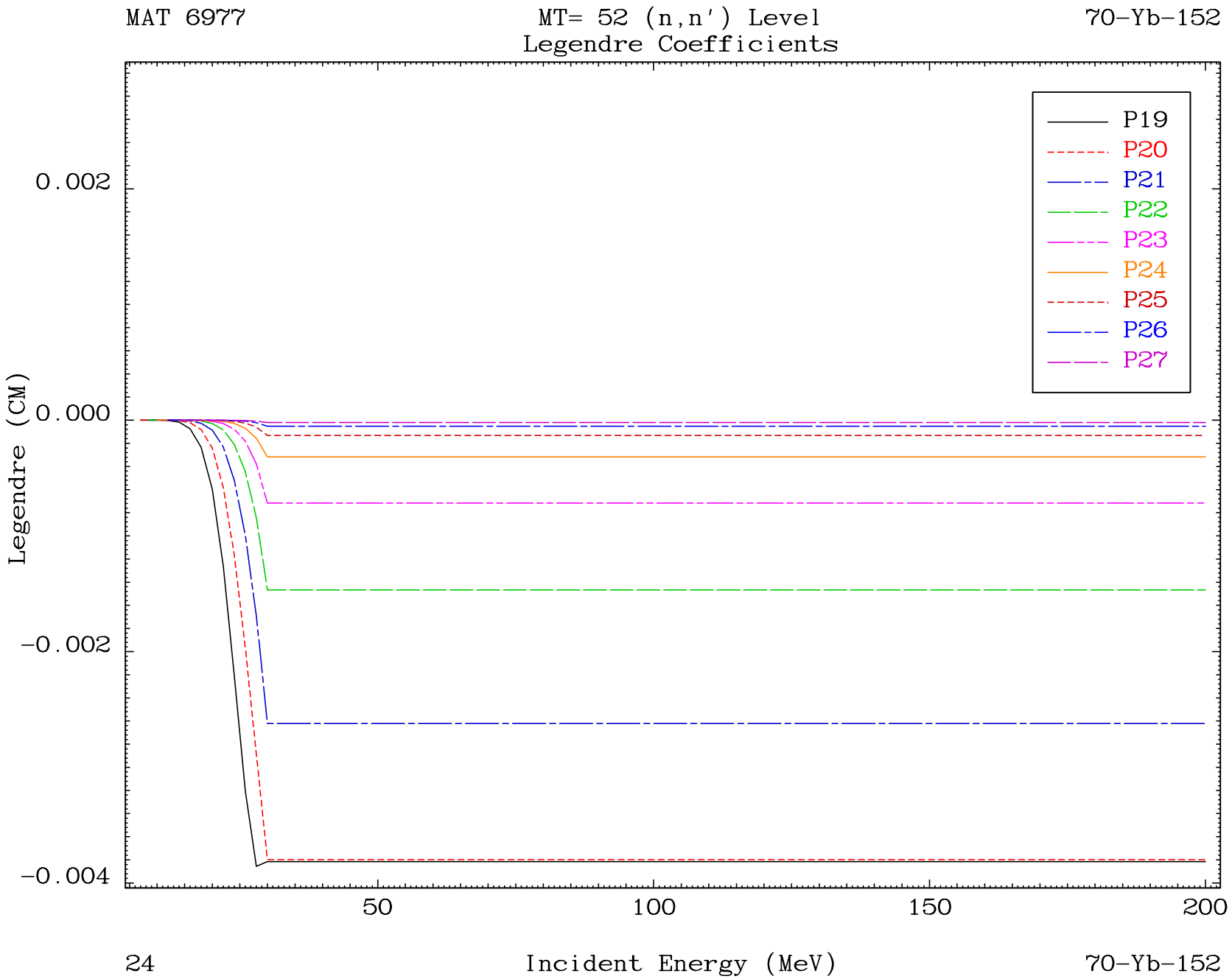

MAT 6977
MT= 51 (n,n') Level
Legendre Coefficients
70-Yb-152
0.04
0.02
0.00
-0.02
-0.04
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
19
Incident Energy (MeV)
70-Yb-152

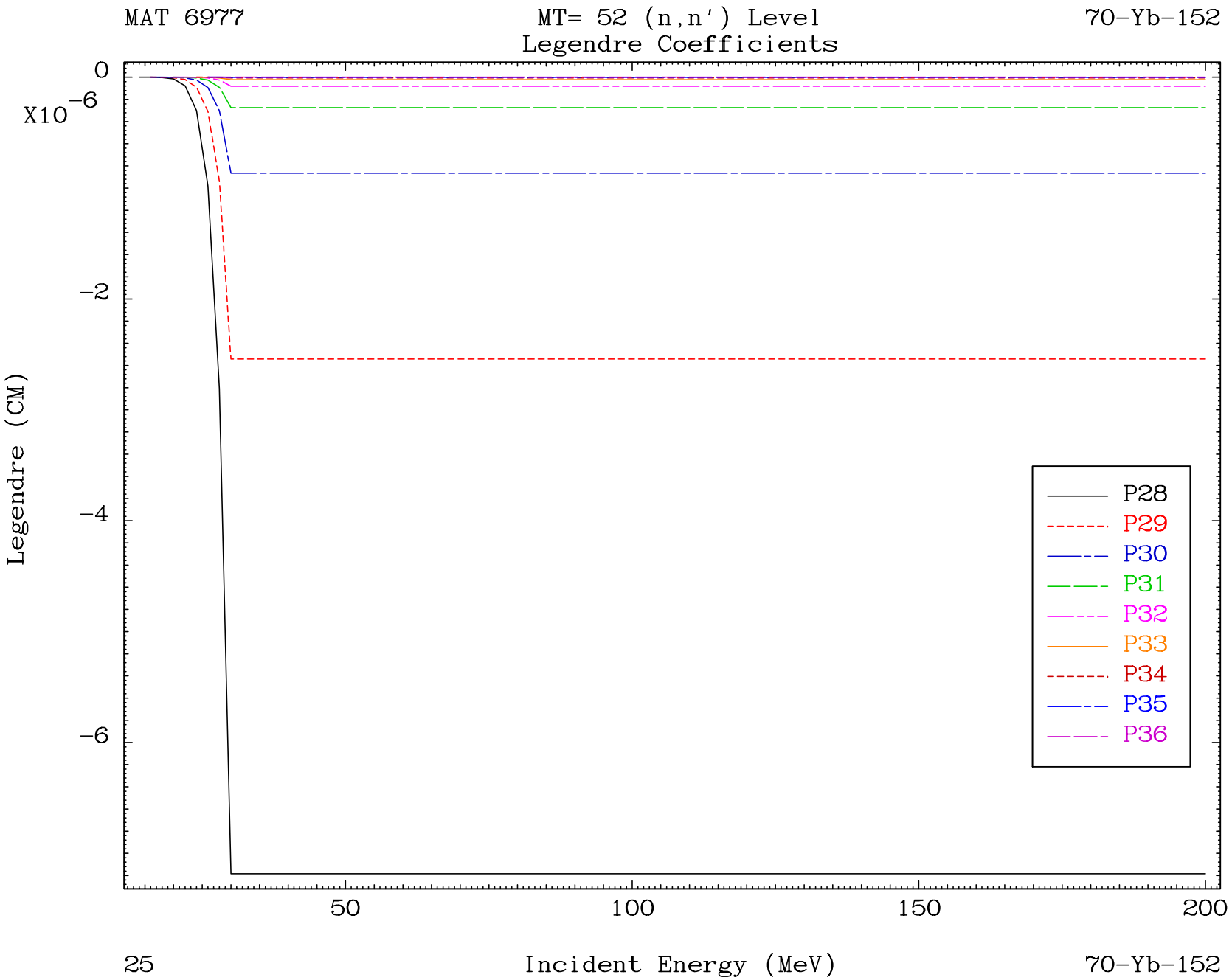

MAT 6977
MT= 51 (n,n') Level
Legendre Coefficients
70-Yb-152
P19
P20
P21
P22
P23
P24
P25
P26
P27
0.015
0.010
0.005
0.000
Legendre (CM)
50
100
150
200
20
Incident Energy (MeV)
70-Yb-152

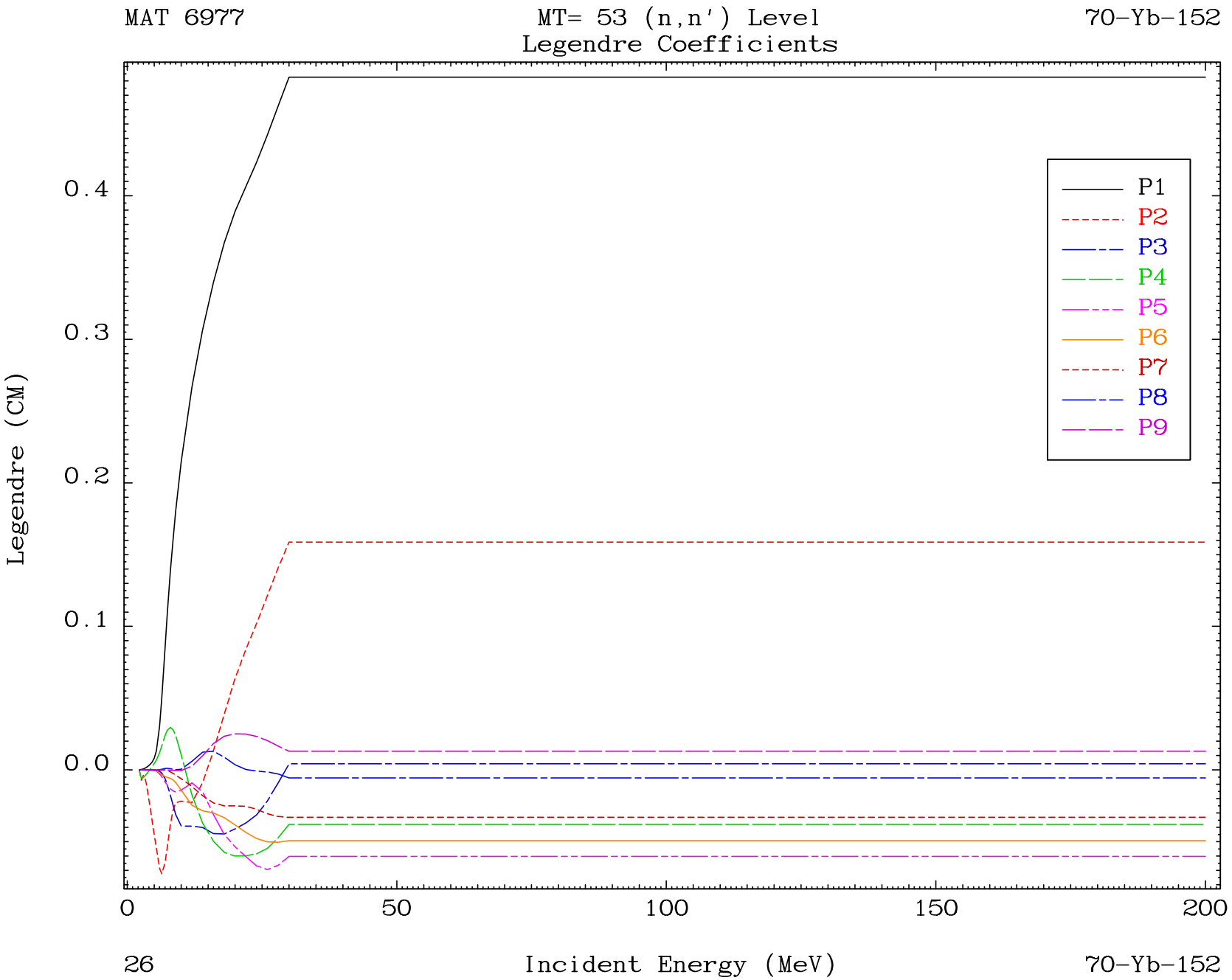

MAT 6977
MT= 51 (n,n') Level
Legendre Coefficients
70-Yb-152
X10^-5
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
P35
P36
50
100
150
200
21
Incident Energy (MeV)
70-Yb-152

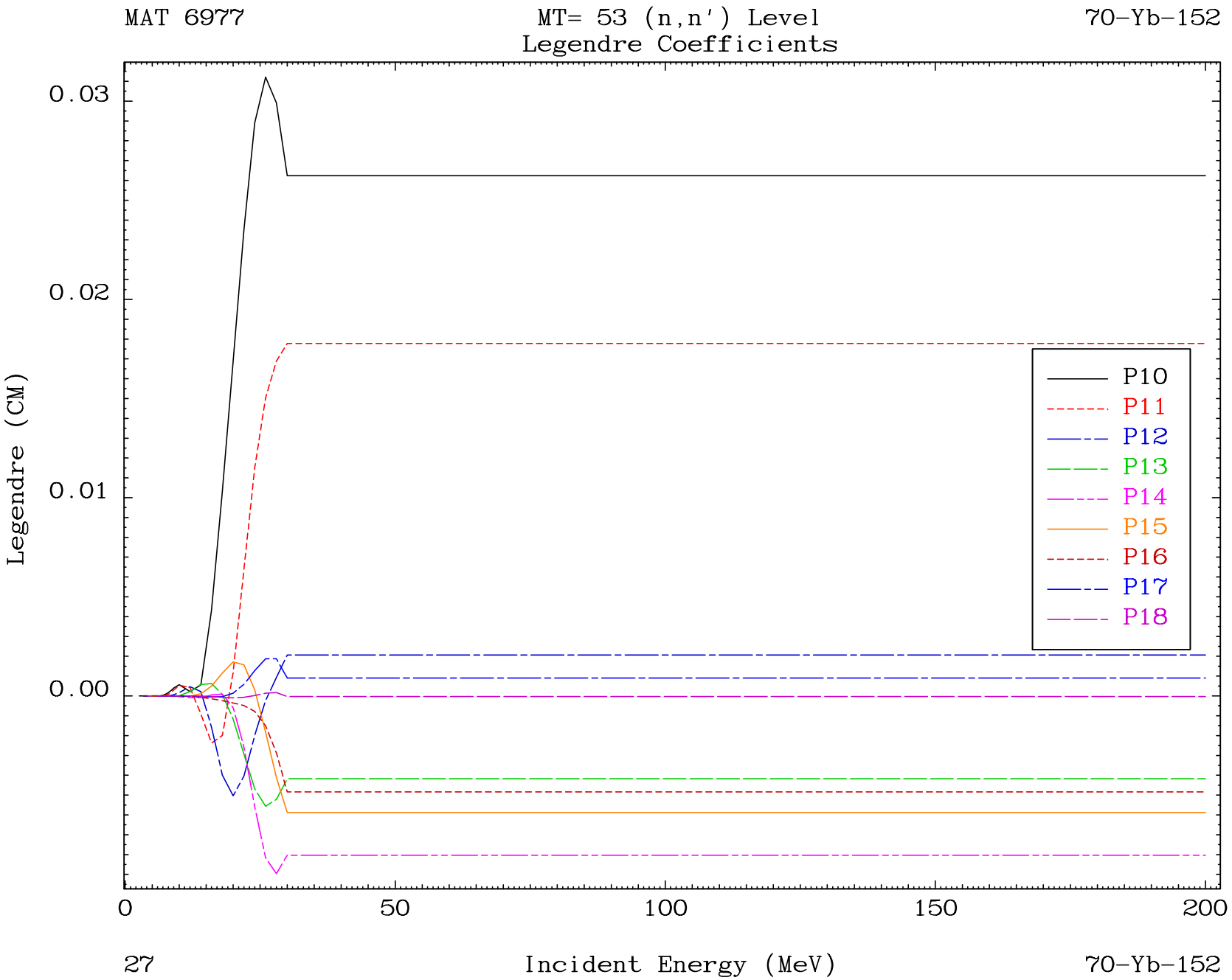

MAT 6977
MT= 52 (n,n') Level
Legendre Coefficients
70-Yb-152
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
22
Incident Energy (MeV)
70-Yb-152
P1
P2
P3
P4
P5
P6
P7
P8
P9

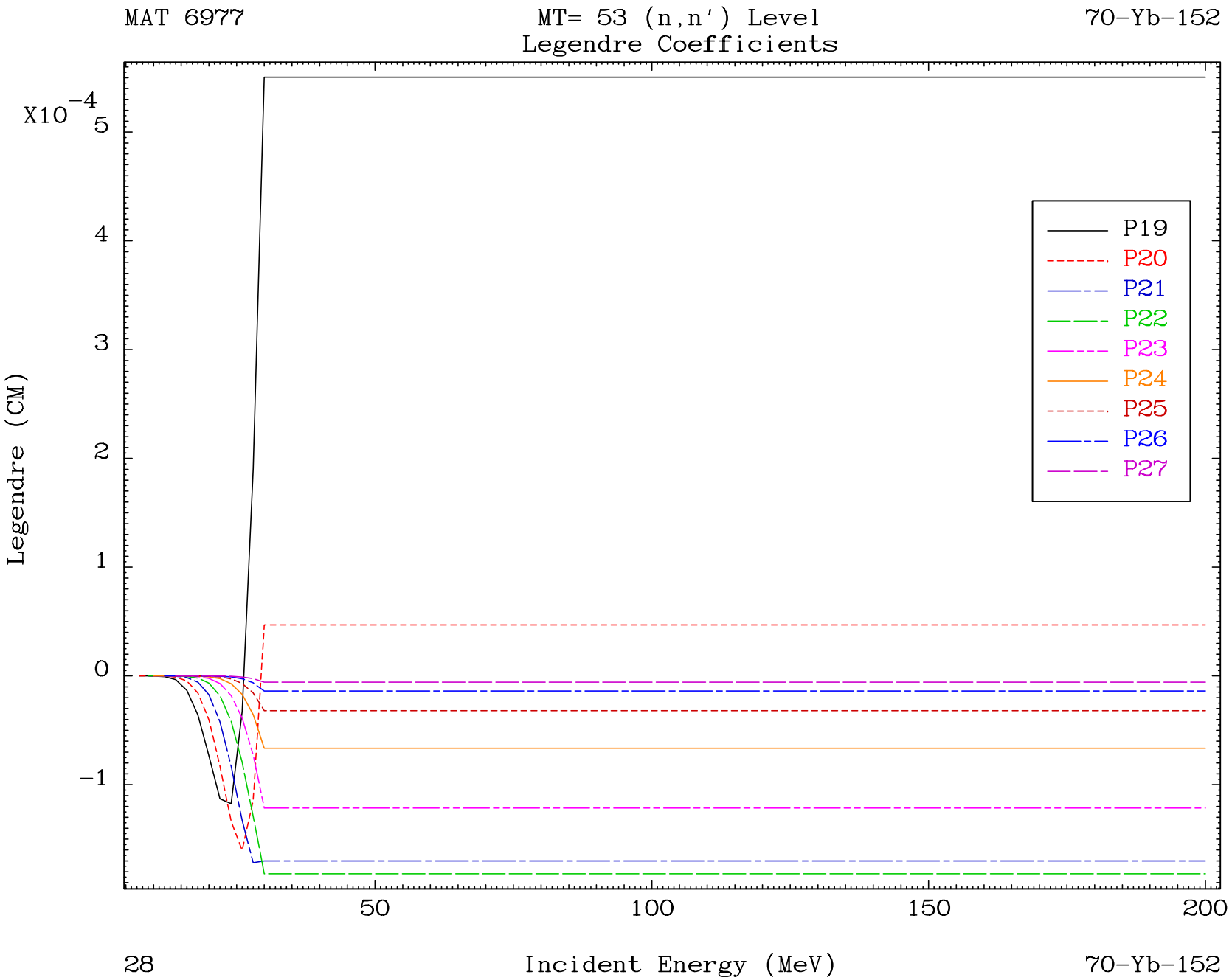

MAT 6977
MT= 52 (n,n') Level
Legendre Coefficients
70-Yb-152
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.06
0.04
0.02
0.00
-0.02
Legendre (CM)
0
50
100
150
200
23
Incident Energy (MeV)
70-Yb-152

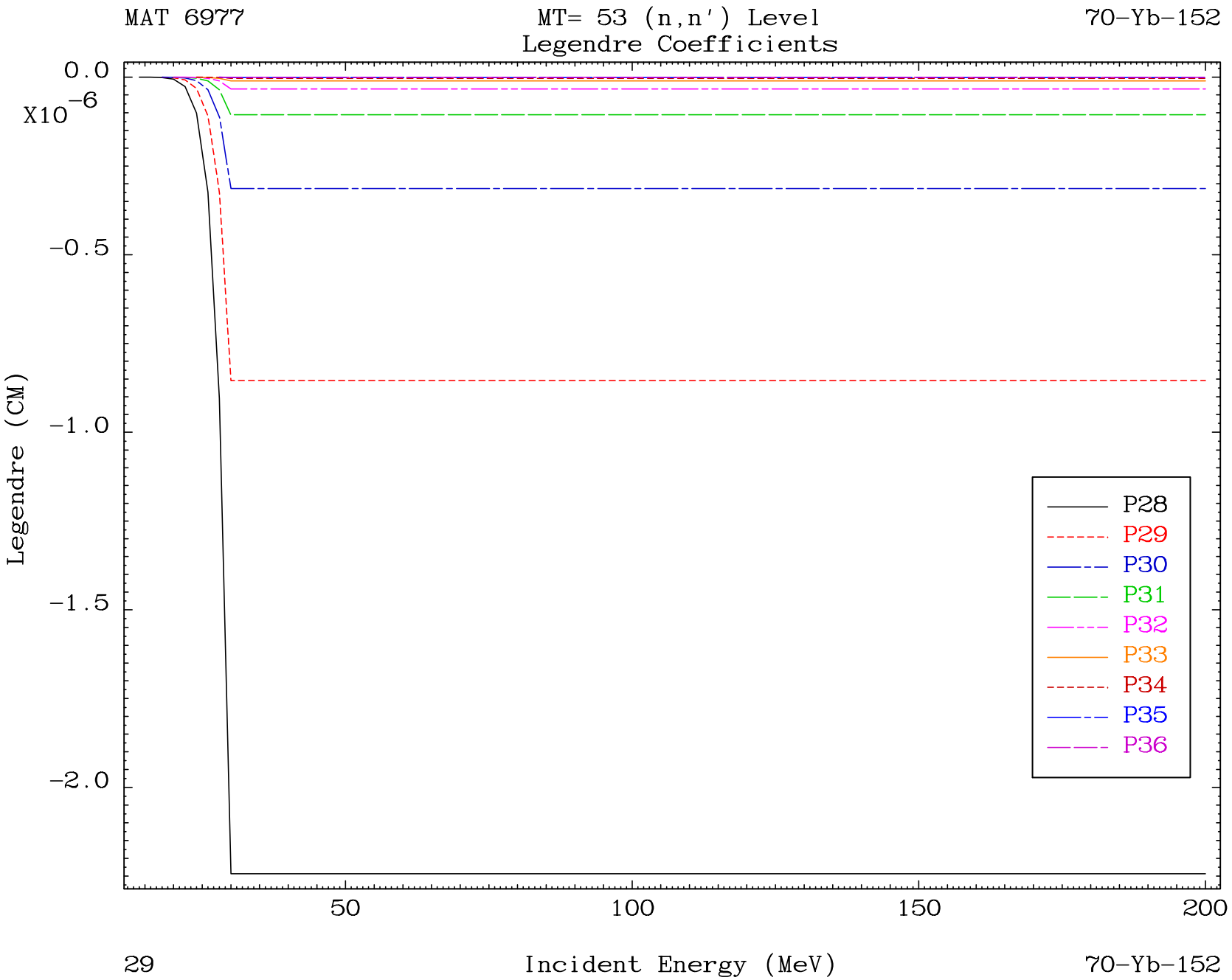

MAT 6977
MT= 52 (n,n') Level
Legendre Coefficients
70-Yb-152
P19
P20
P21
P22
P23
P24
P25
P26
P27
0.002
0.000
-0.002
-0.004
Legendre (CM)
50
100
150
200
24
Incident Energy (MeV)
70-Yb-152

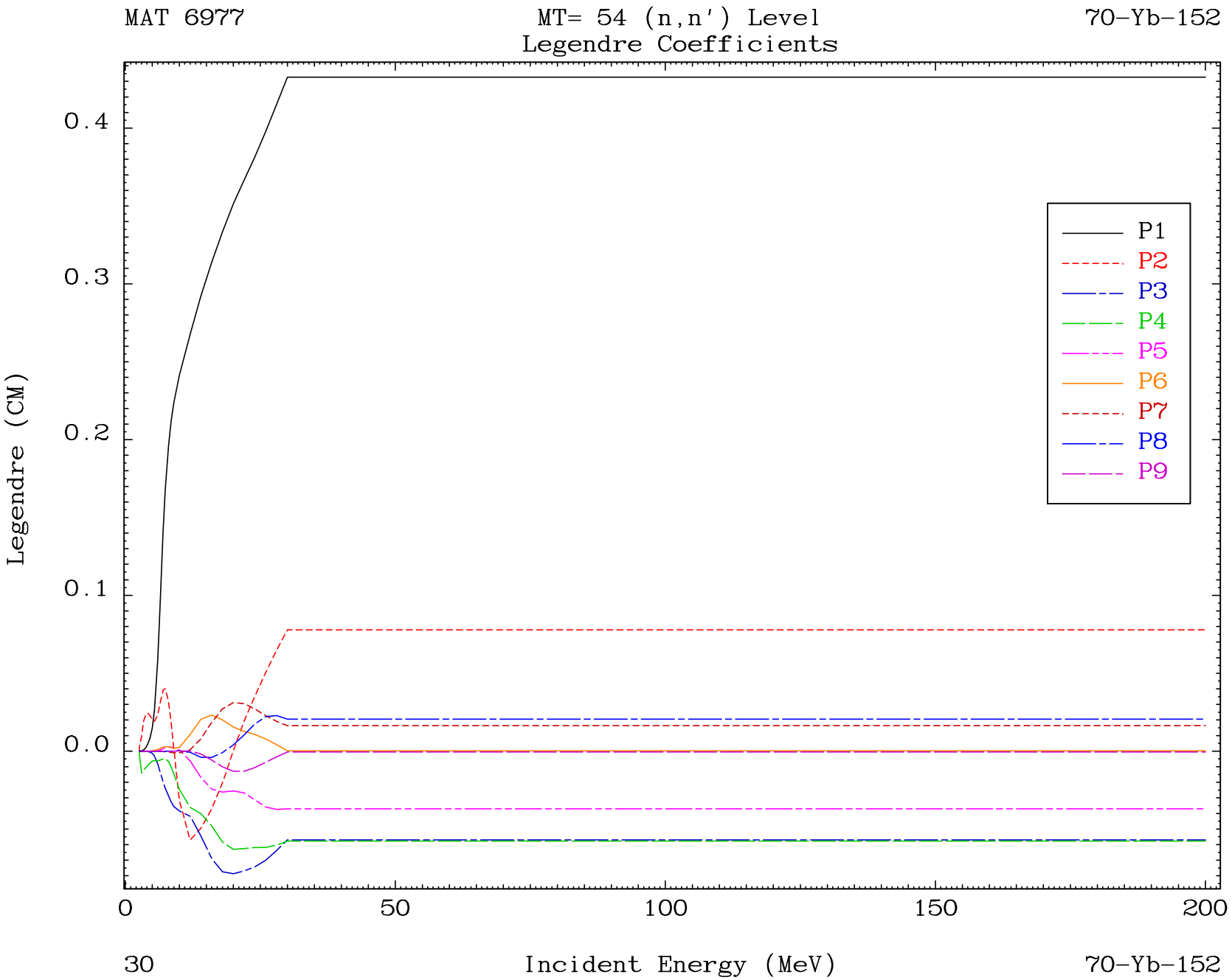

MAT 6977
MT= 52 (n,n') Level
Legendre Coefficients
70-Yb-152
0
X10 −6
−2
−4
−6
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
P35
P36
50
100
150
200
25
Incident Energy (MeV)
70-Yb-152

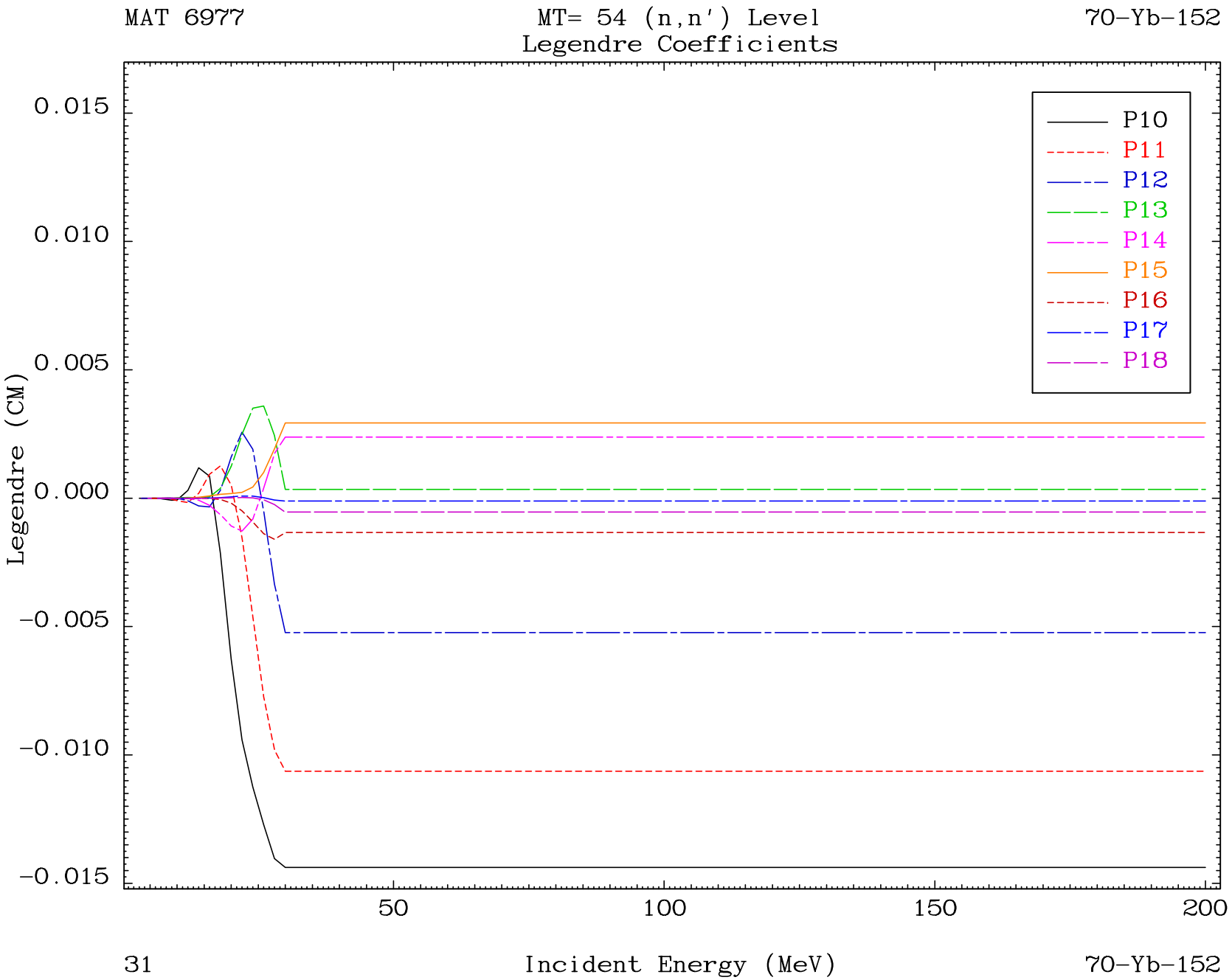

MAT 6977
MT= 53 (n,n') Level
Legendre Coefficients
70-Yb-152
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
Incident Energy (MeV)
26
70-Yb-152
P1
P2
P3
P4
P5
P6
P7
P8
P9

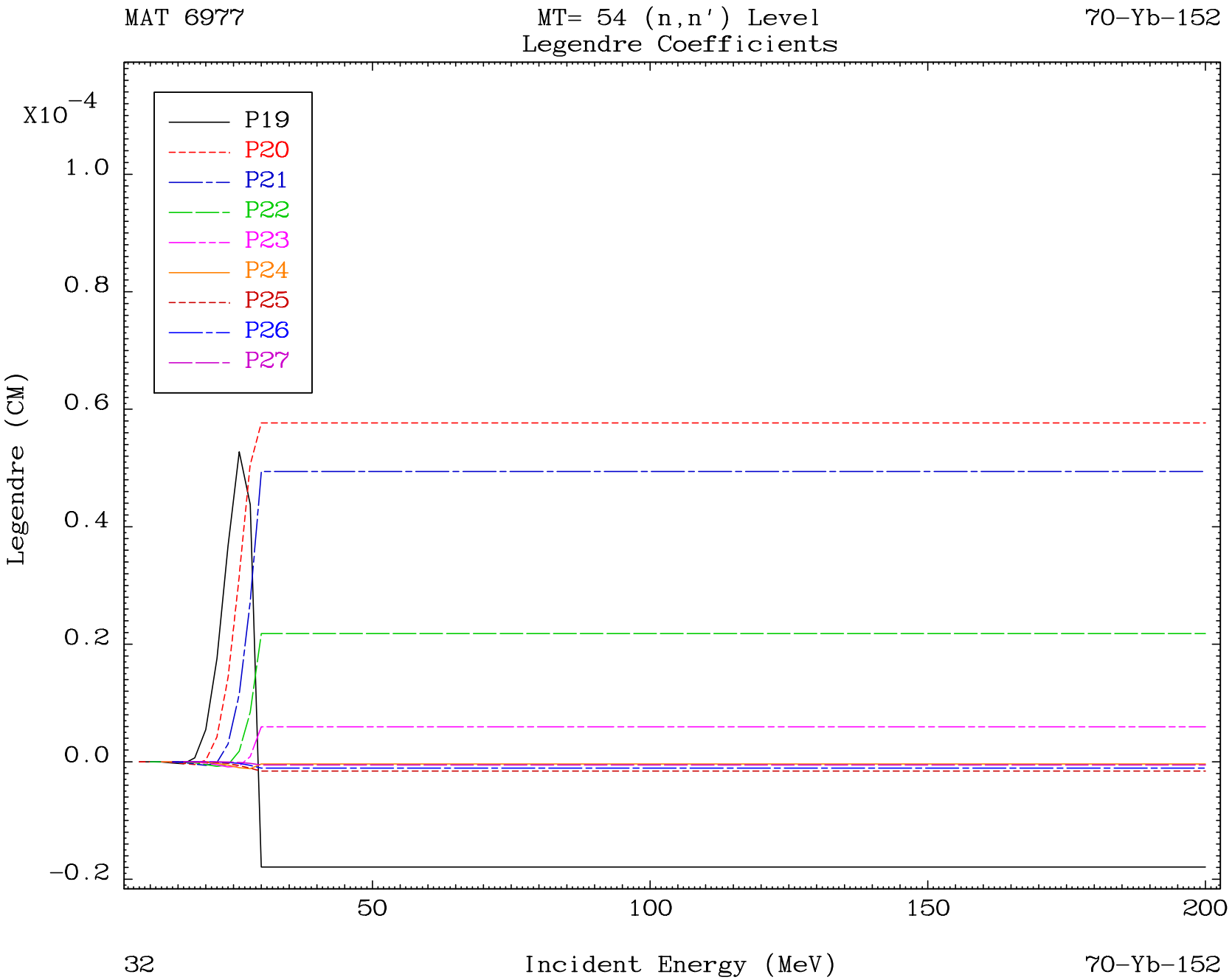

MAT 6977
MT= 53 (n,n') Level
Legendre Coefficients
70-Yb-152
0.03
0.02
0.01
0.00
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
27
Incident Energy (MeV)
70-Yb-152

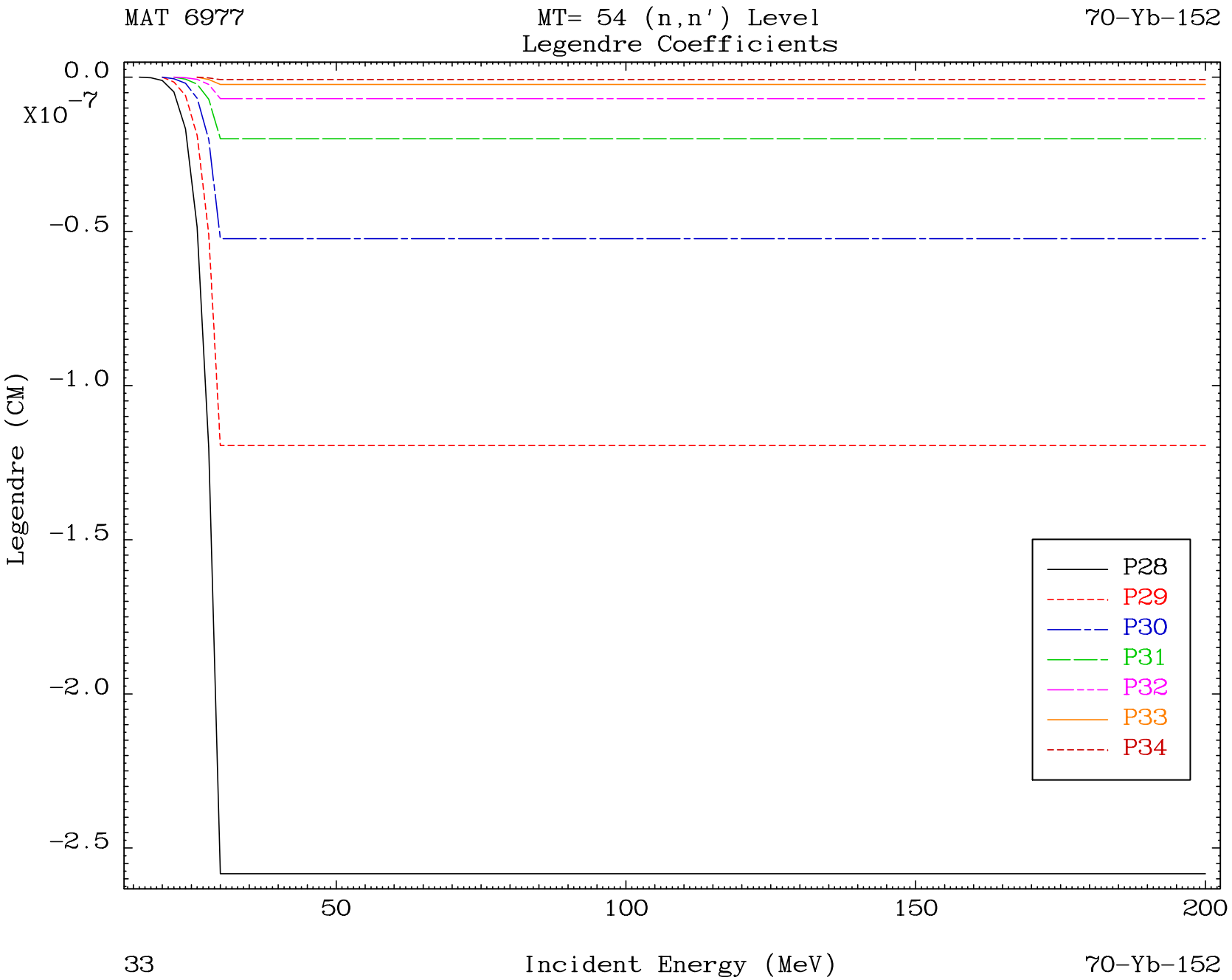

MAT 6977
MT= 53 (n,n') Level
Legendre Coefficients
70-Yb-152
X10^-4
5
4
3
2
1
0
-1
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
28
Incident Energy (MeV)
70-Yb-152

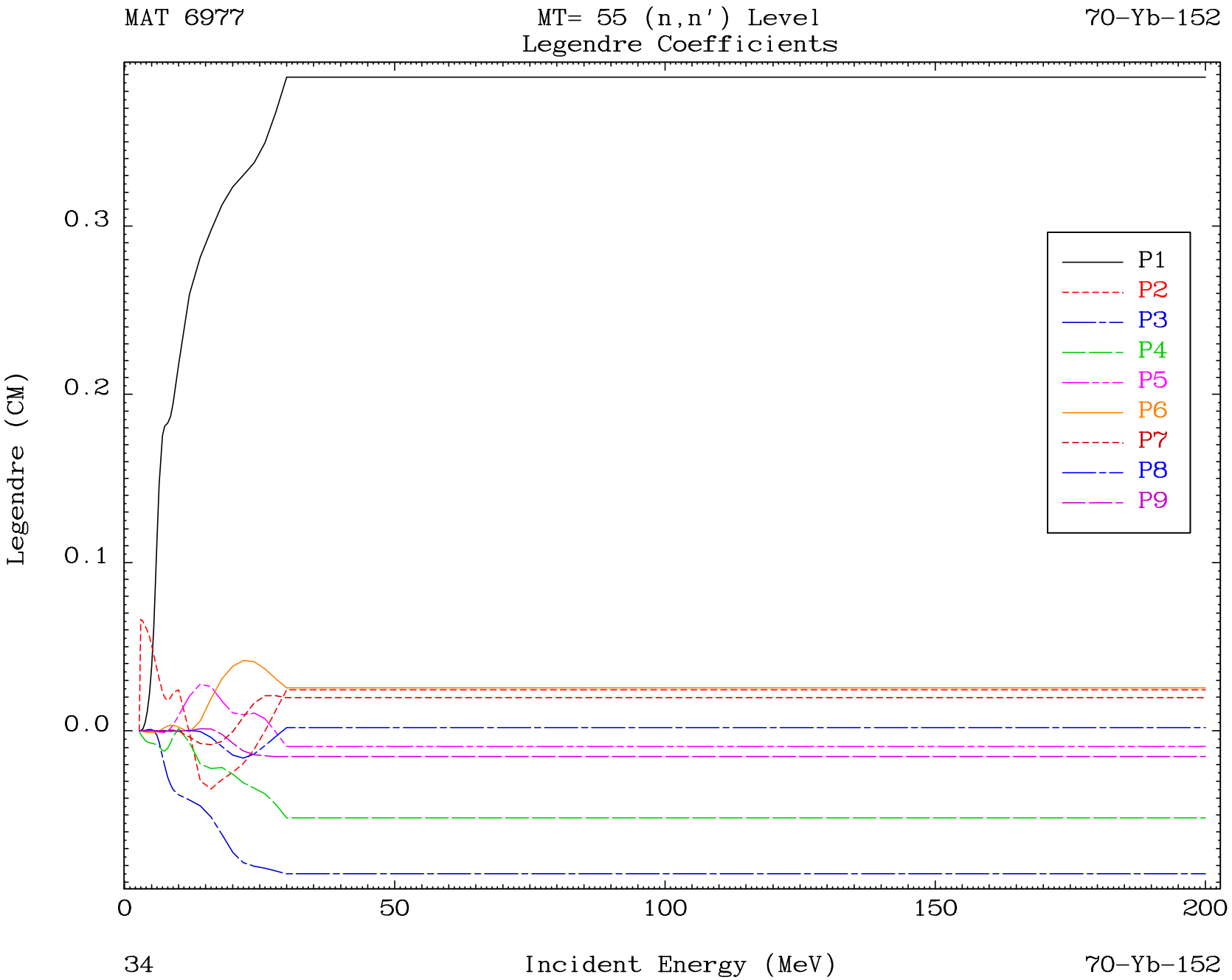

MAT 6977
MT= 53 (n,n') Level
Legendre Coefficients
70-Yb-152
0.0
X10^-6
-0.5
-1.0
-1.5
-2.0
Legendre (CM)
50
100
150
200
29
Incident Energy (MeV)
70-Yb-152
P28
P29
P30
P31
P32
P33
P34
P35
P36

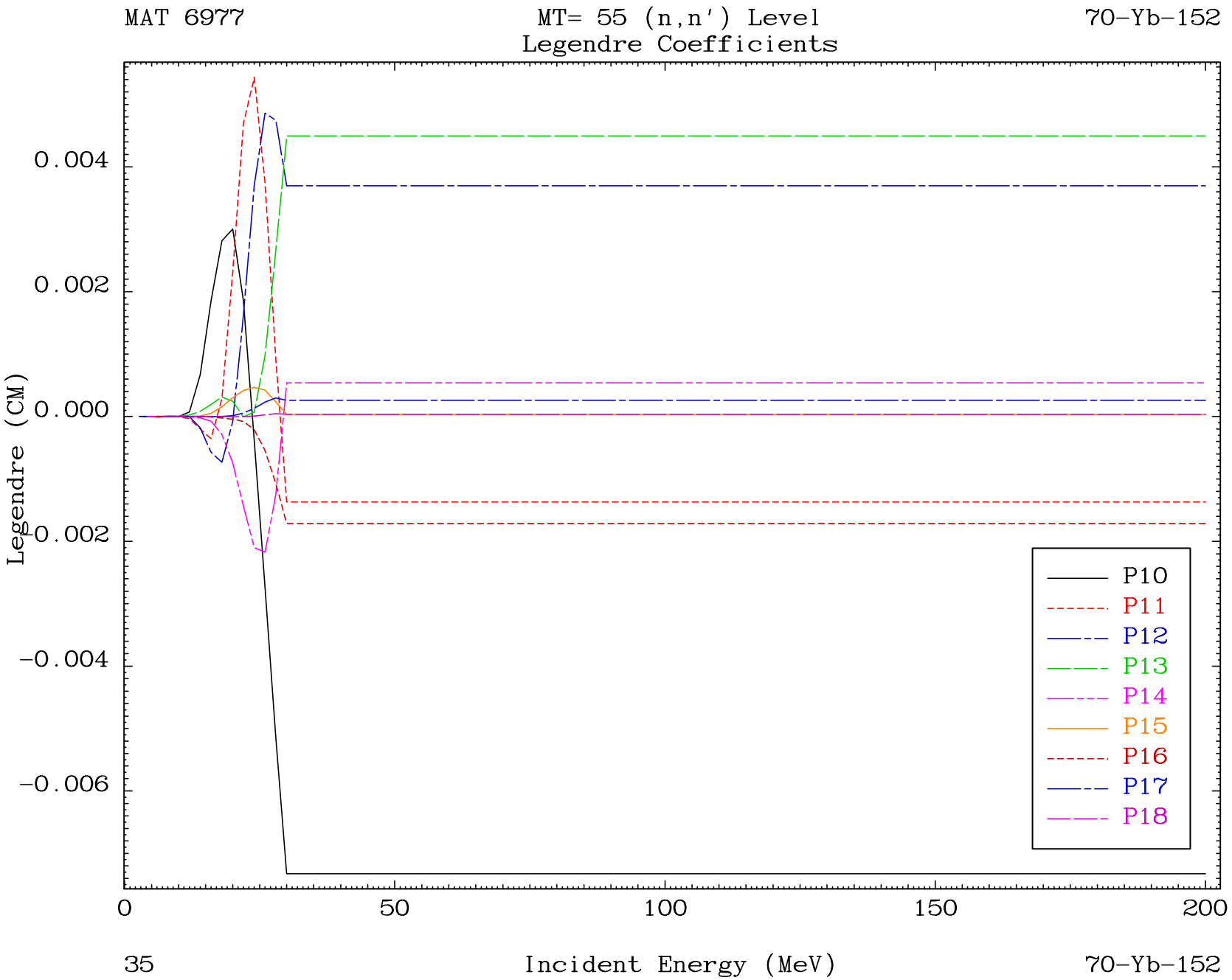

MAT 6977
MT= 54 (n,n') Level
Legendre Coefficients
70-Yb-152
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
30
Incident Energy (MeV)
70-Yb-152
P1
P2
P3
P4
P5
P6
P7
P8
P9

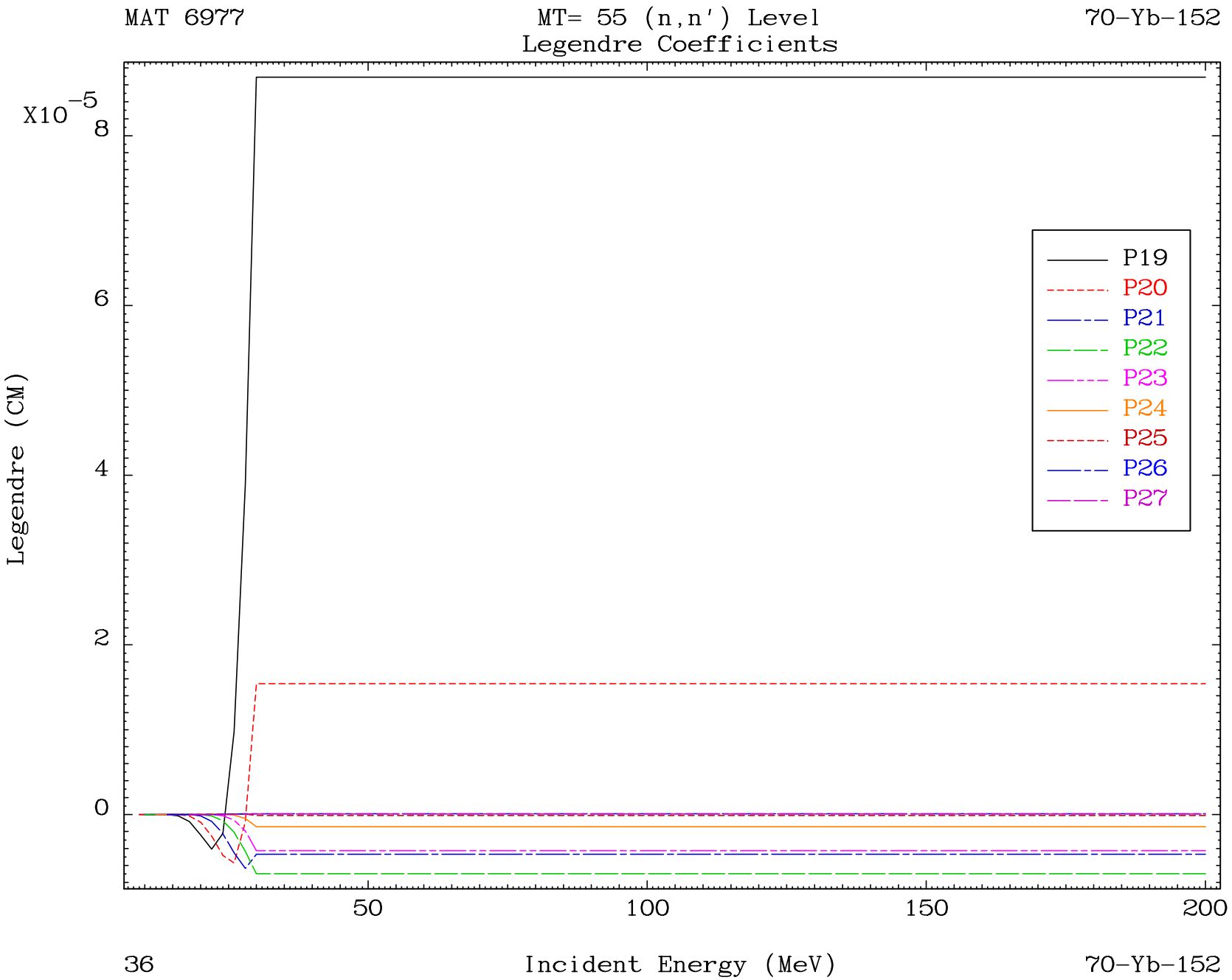

MAT 6977
MT= 54 (n,n') Level
Legendre Coefficients
70-Yb-152
0.015
0.010
0.005
0.000
-0.005
-0.010
-0.015
Legendre (CM)
50
100
150
200
Incident Energy (MeV)
P10
P11
P12
P13
P14
P15
P16
P17
P18
31
70-Yb-152

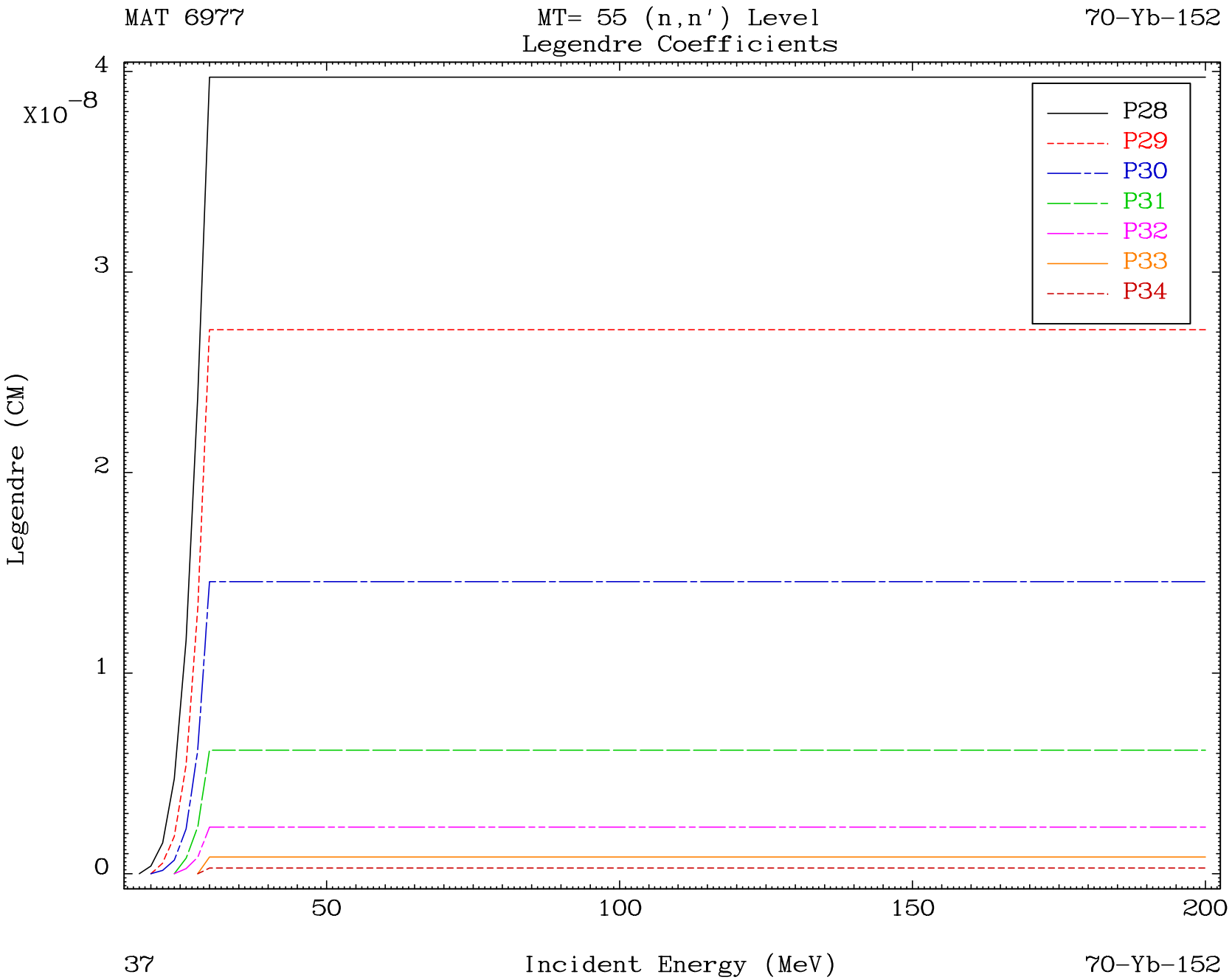

MAT 6977
MT= 54 (n,n') Level
Legendre Coefficients
70-Yb-152
X10^-4
1.0
0.8
0.6
0.4
0.2
0.0
-0.2
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
32
Incident Energy (MeV)
70-Yb-152

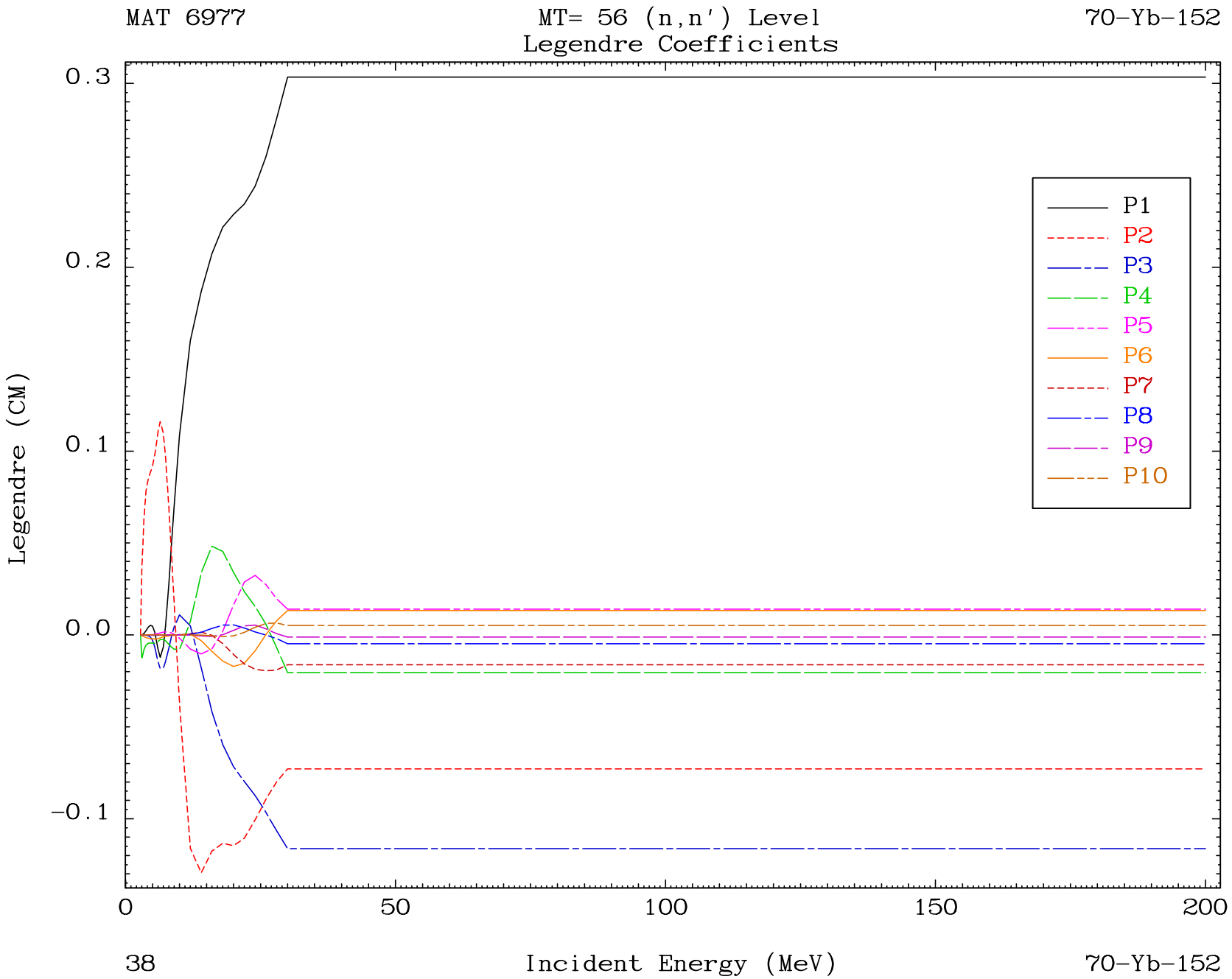

MAT 6977
MT= 54 (n,n') Level
Legendre Coefficients
70-Yb-152
0.0
X10^-7
-0.5
-1.0
-1.5
-2.0
-2.5
Legendre (CM)
50
100
150
200
33
Incident Energy (MeV)
70-Yb-152
P28
P29
P30
P31
P32
P33
P34

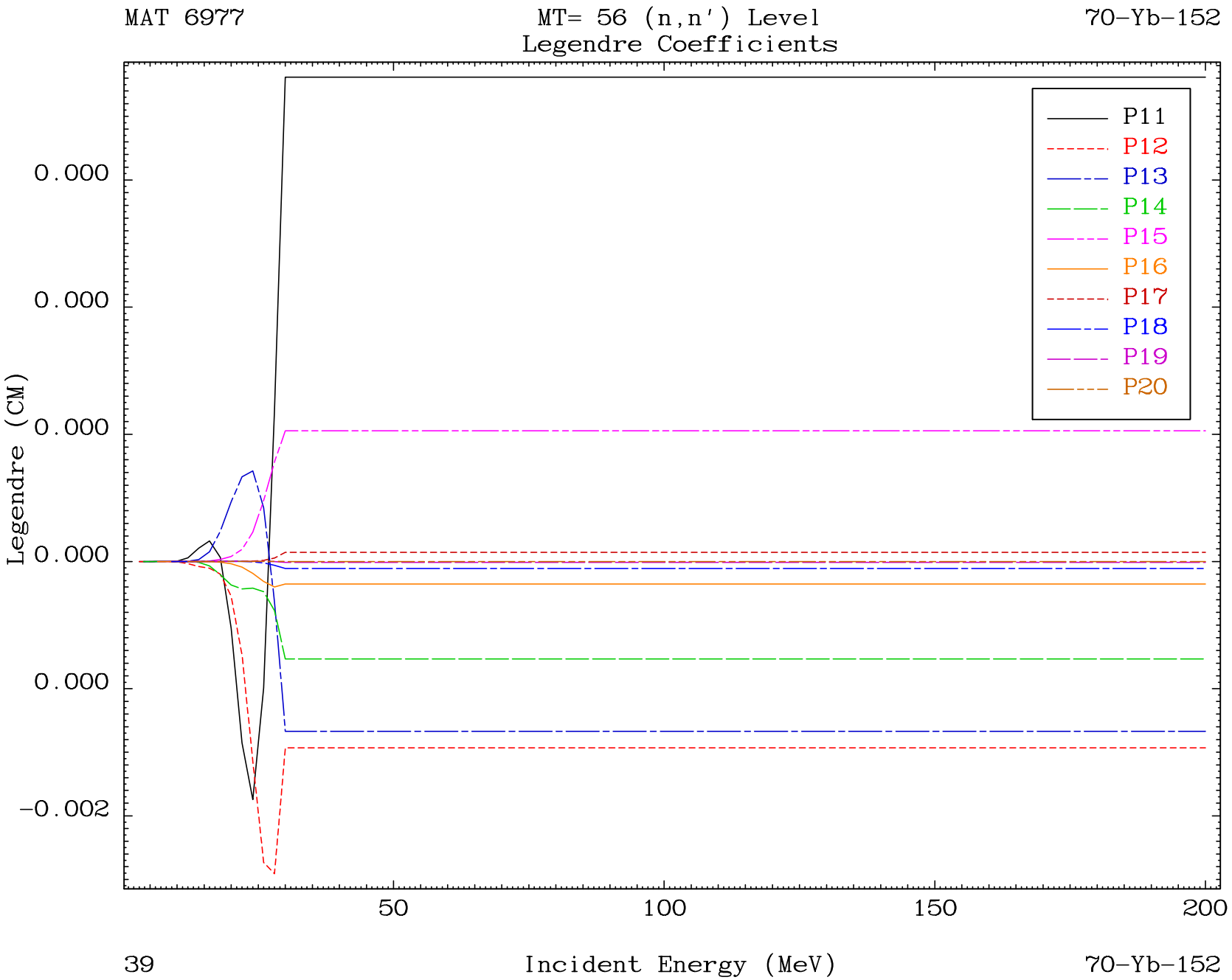

MAT 6977
MT= 55 (n,n') Level
Legendre Coefficients
70-Yb-152
Legendre (CM)
0.3
0.2
0.1
0.0
0
50
100
150
200
34
Incident Energy (MeV)
70-Yb-152
P1
P2
P3
P4
P5
P6
P7
P8
P9

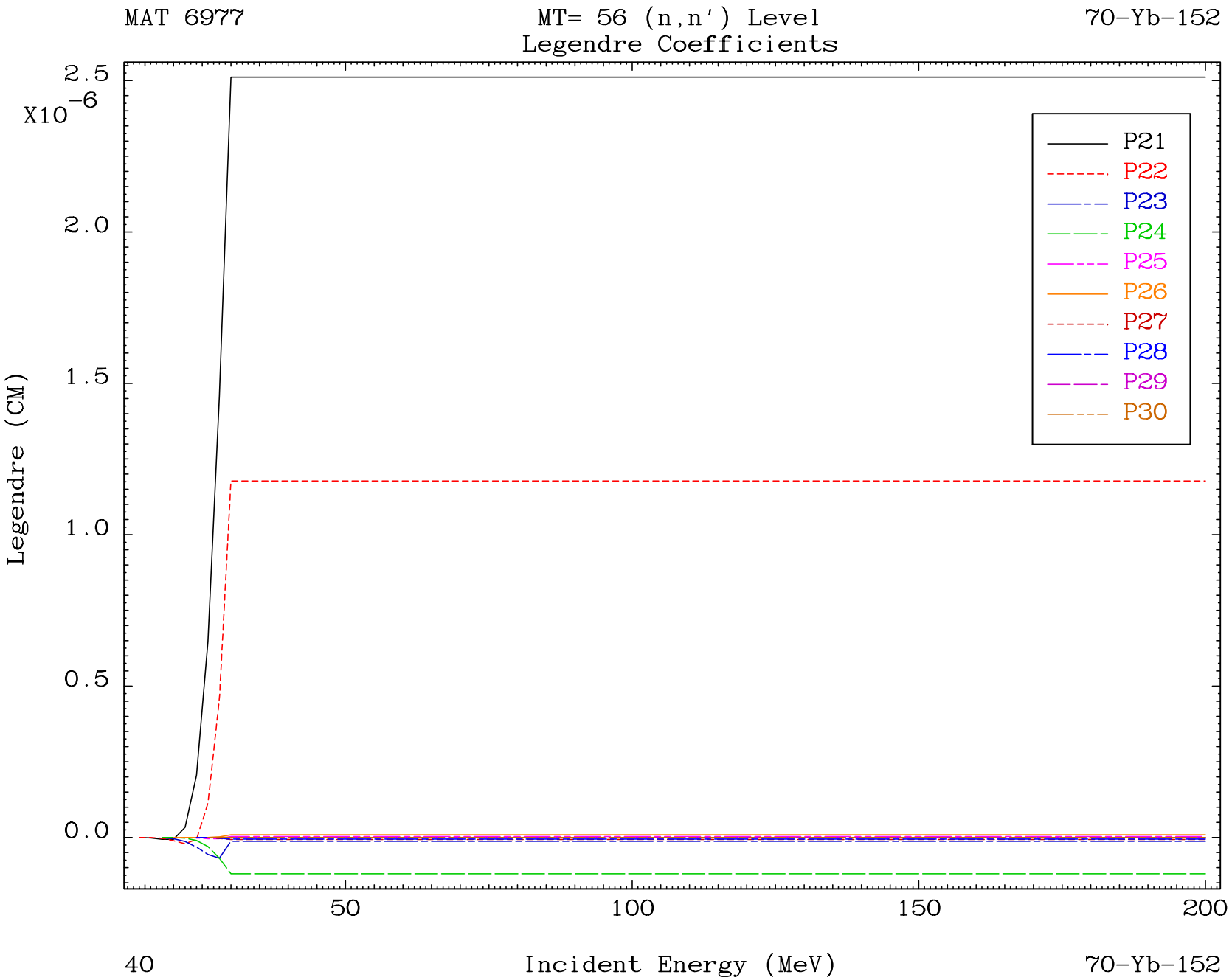

MAT 6977
MT= 55 (n,n') Level
Legendre Coefficients
70-Yb-152
0.004
0.002
0.000
-0.002
-0.004
-0.006
Legendre (CM)
0
50
100
150
200
35
Incident Energy (MeV)
70-Yb-152
P10
P11
P12
P13
P14
P15
P16
P17
P18

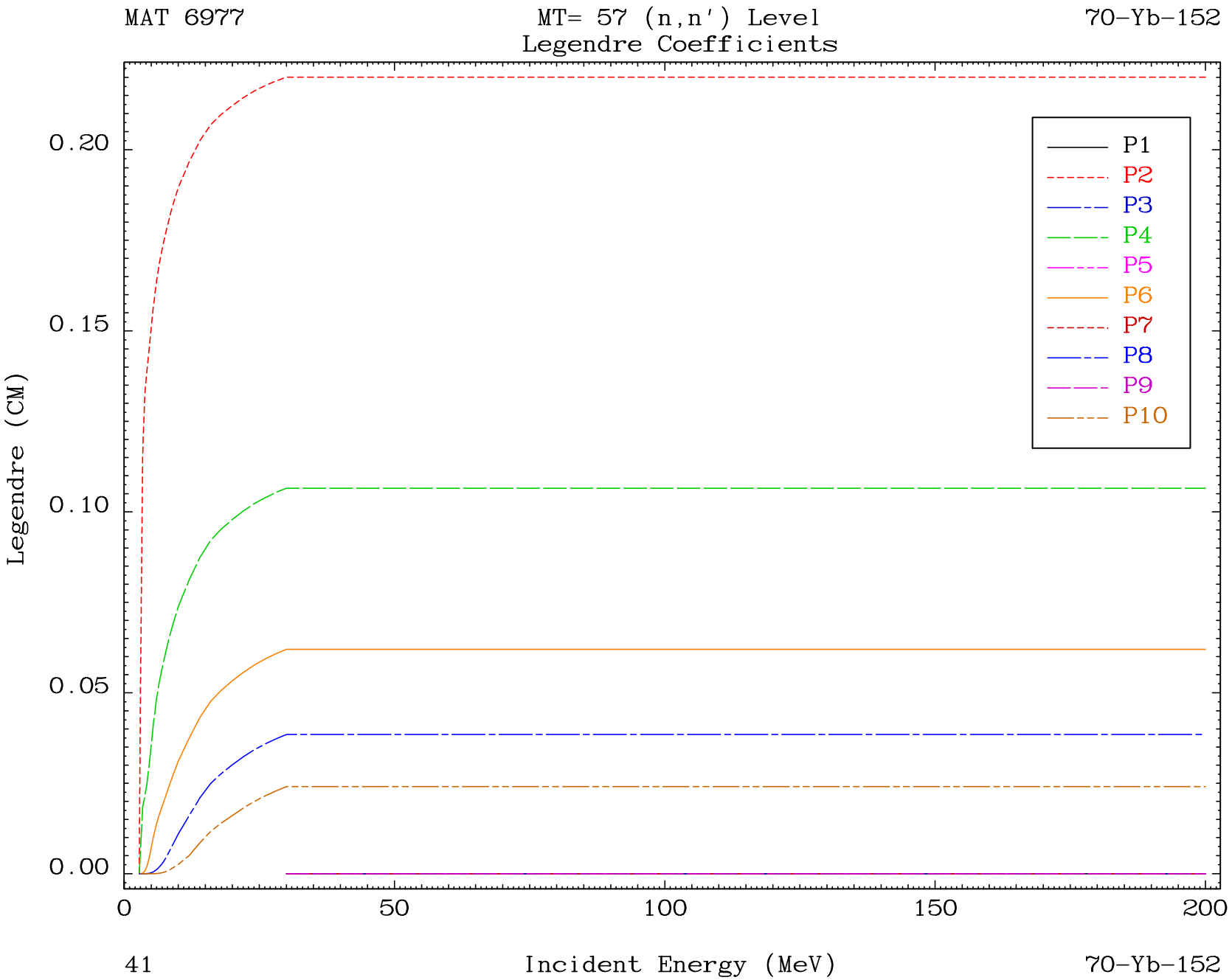

MAT 6977
MT= 55 (n,n') Level
Legendre Coefficients
70-Yb-152
X10^-5
8
6
4
2
0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
36
Incident Energy (MeV)
70-Yb-152

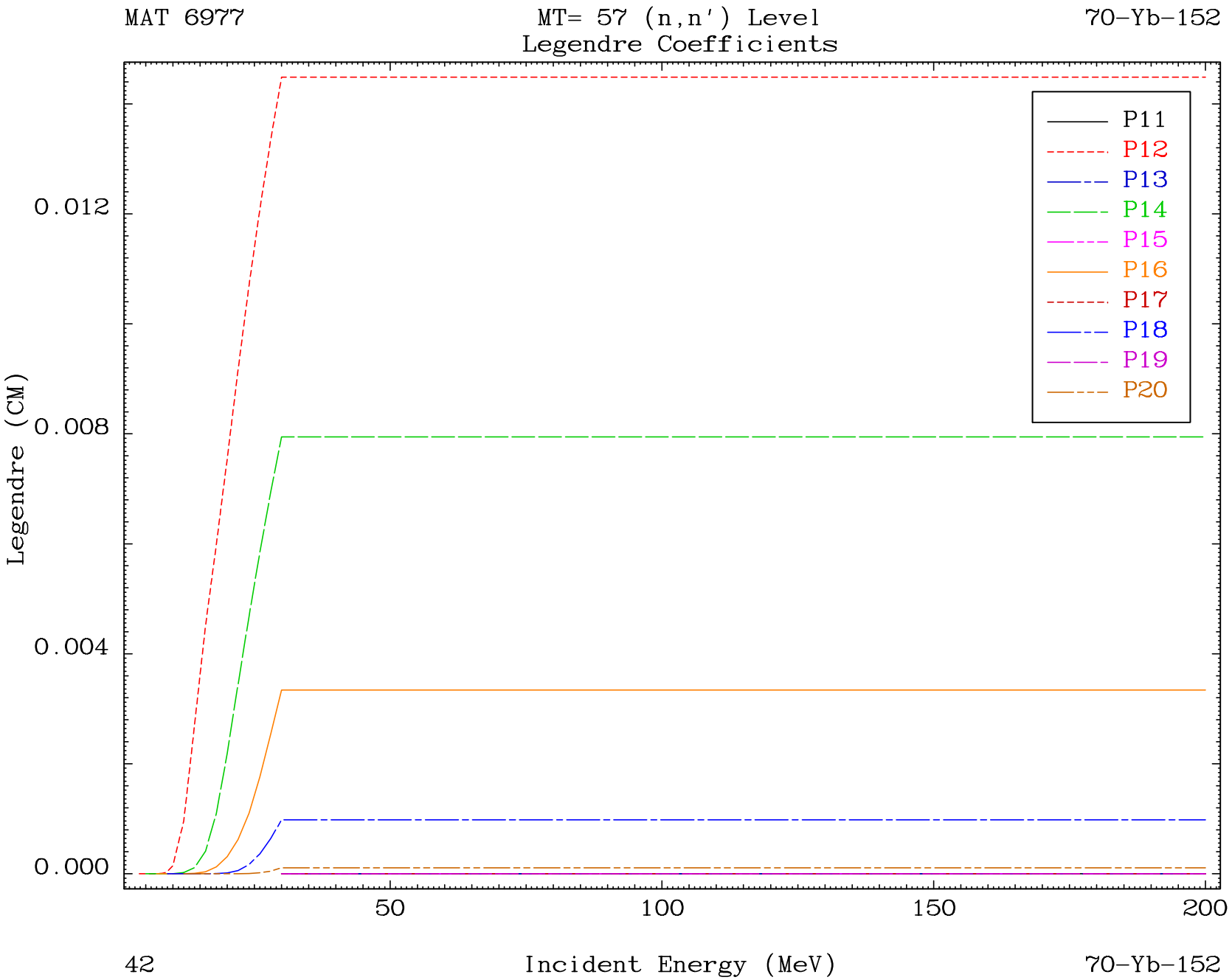

MAT 6977
MT= 55 (n,n') Level
Legendre Coefficients
70-Yb-152
X10 −8
4
3
2
1
0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
37
Incident Energy (MeV)
70-Yb-152

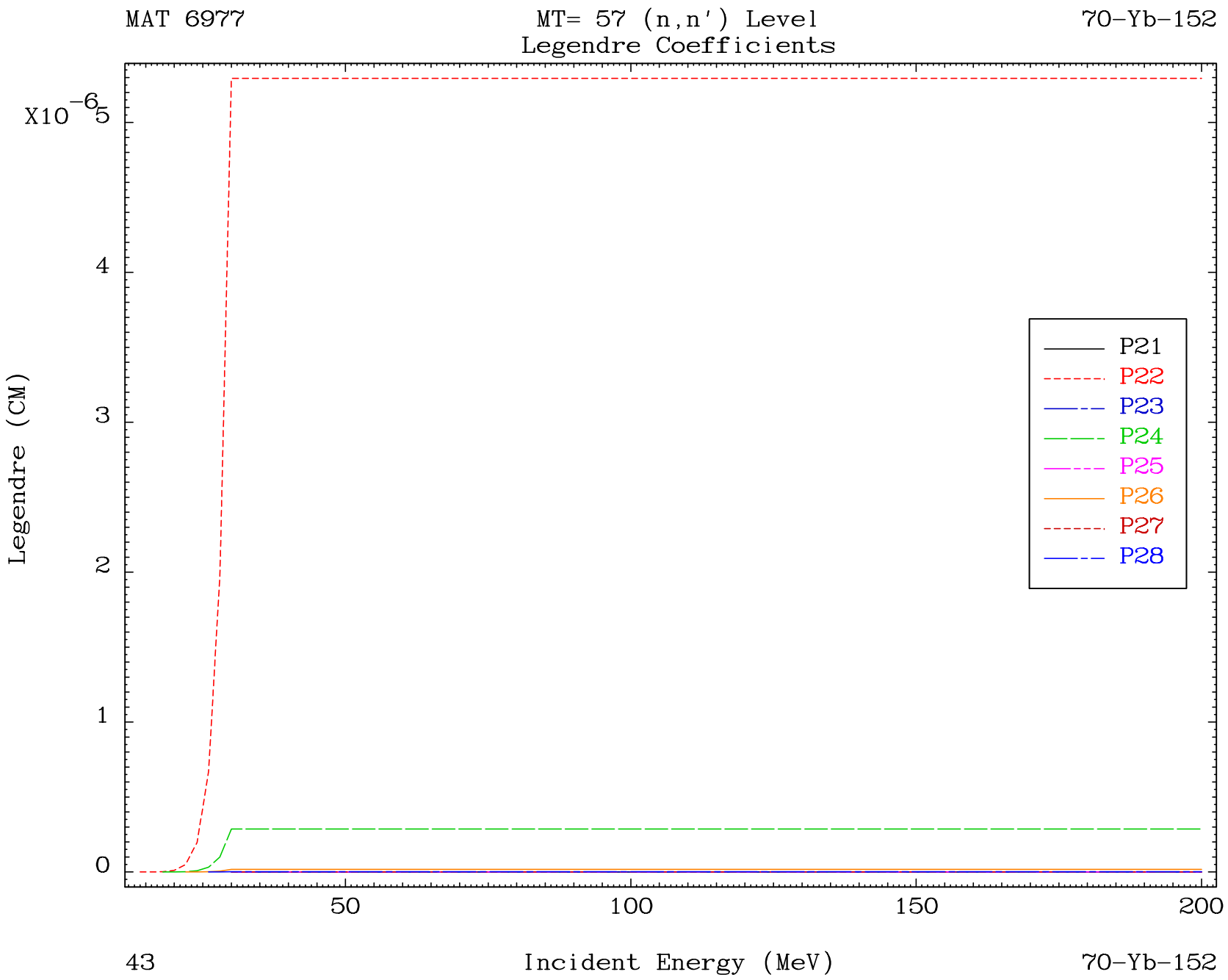

MAT 6977
MT= 56 (n,n') Level
Legendre Coefficients
70-Yb-152
0.3
0.2
0.1
0.0
-0.1
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
0
50
100
150
200
38
Incident Energy (MeV)
70-Yb-152

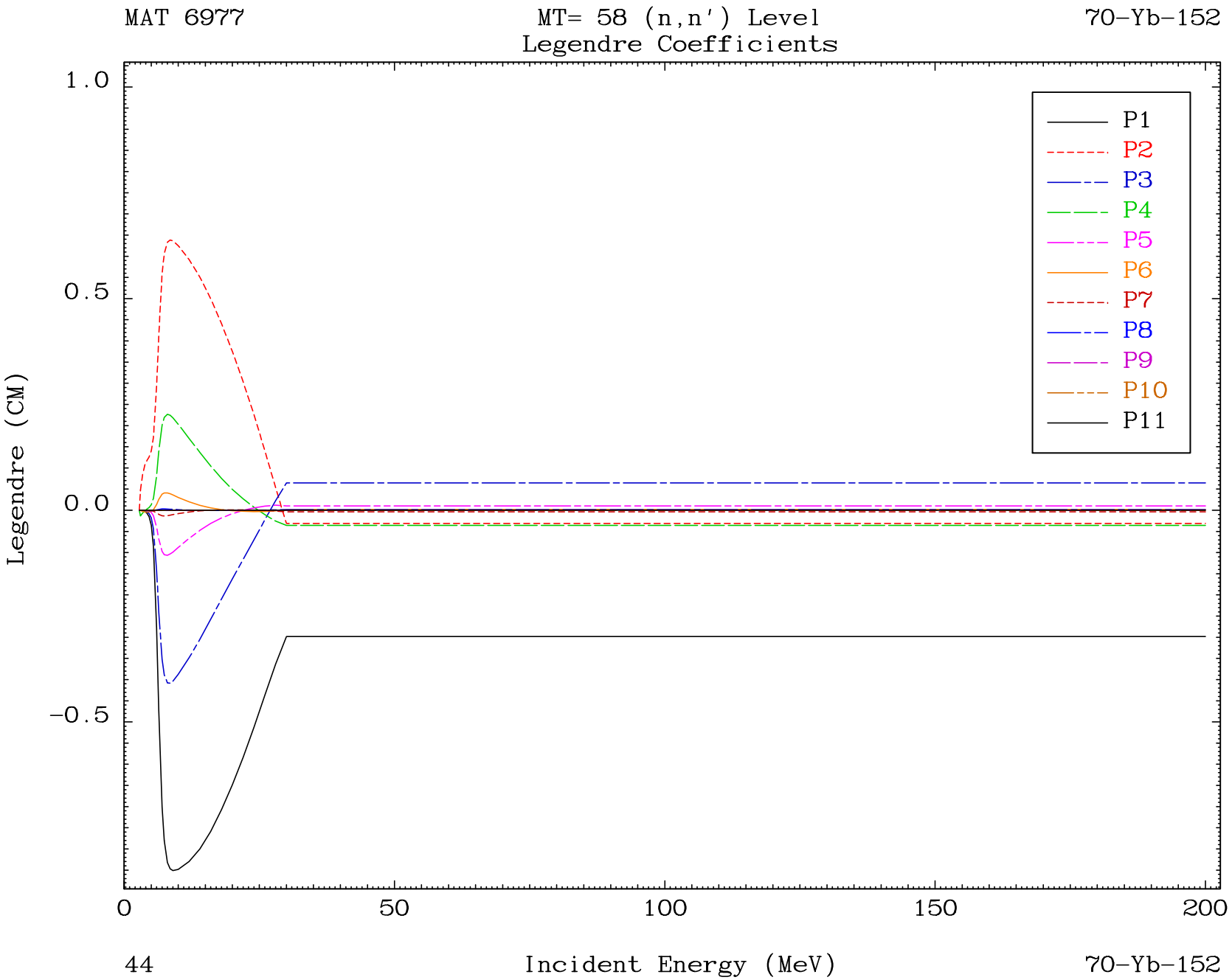

MAT 6977
MT= 56 (n,n') Level
Legendre Coefficients
70-Yb-152
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.000
0.000
0.000
0.000
-0.002
Legendre (CM)
50
100
150
200
39
Incident Energy (MeV)
70-Yb-152

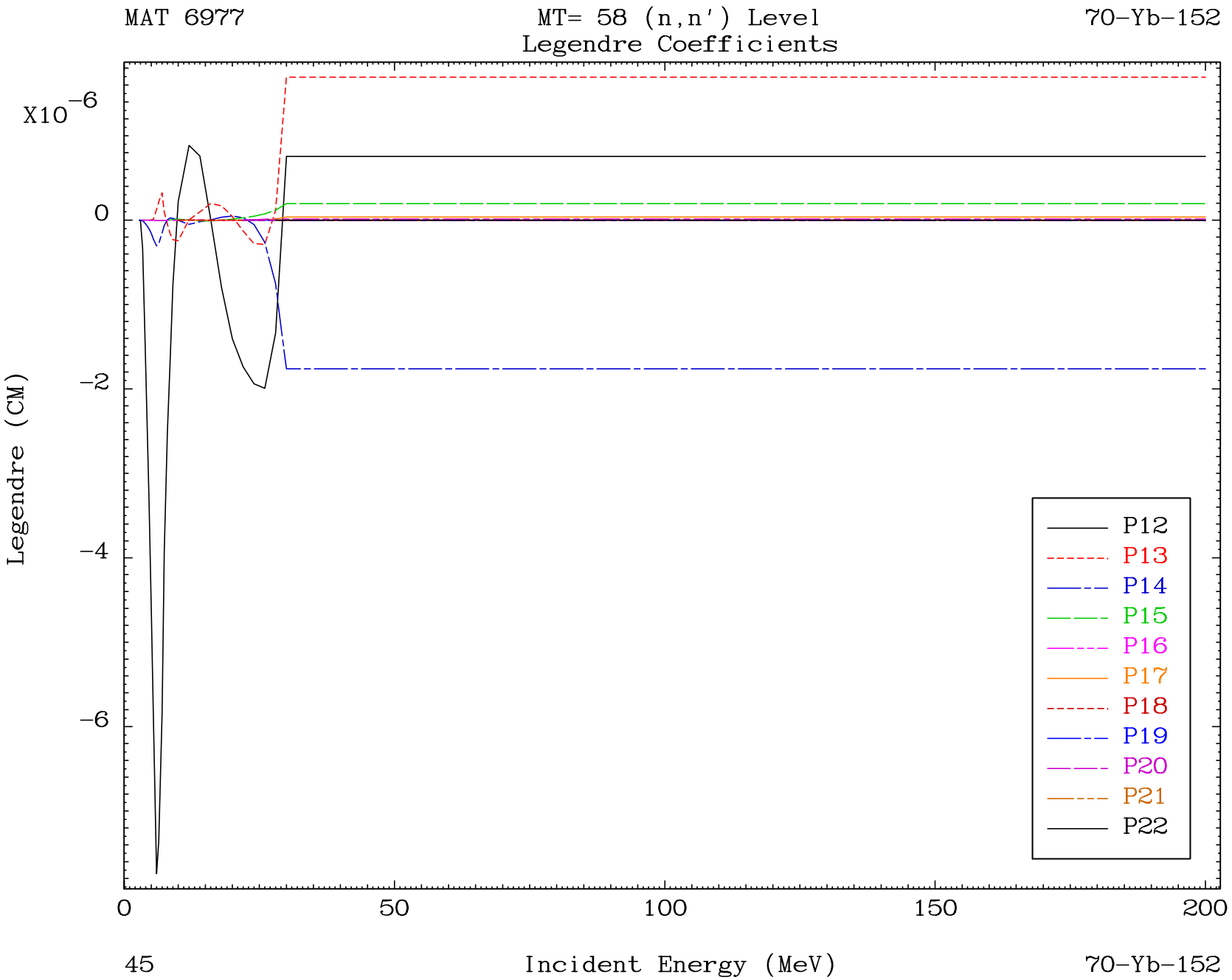

MAT 6977
MT= 56 (n,n') Level
Legendre Coefficients
70-Yb-152
X10 -6
2.5
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
40
50
100
150
200
Incident Energy (MeV)
70-Yb-152

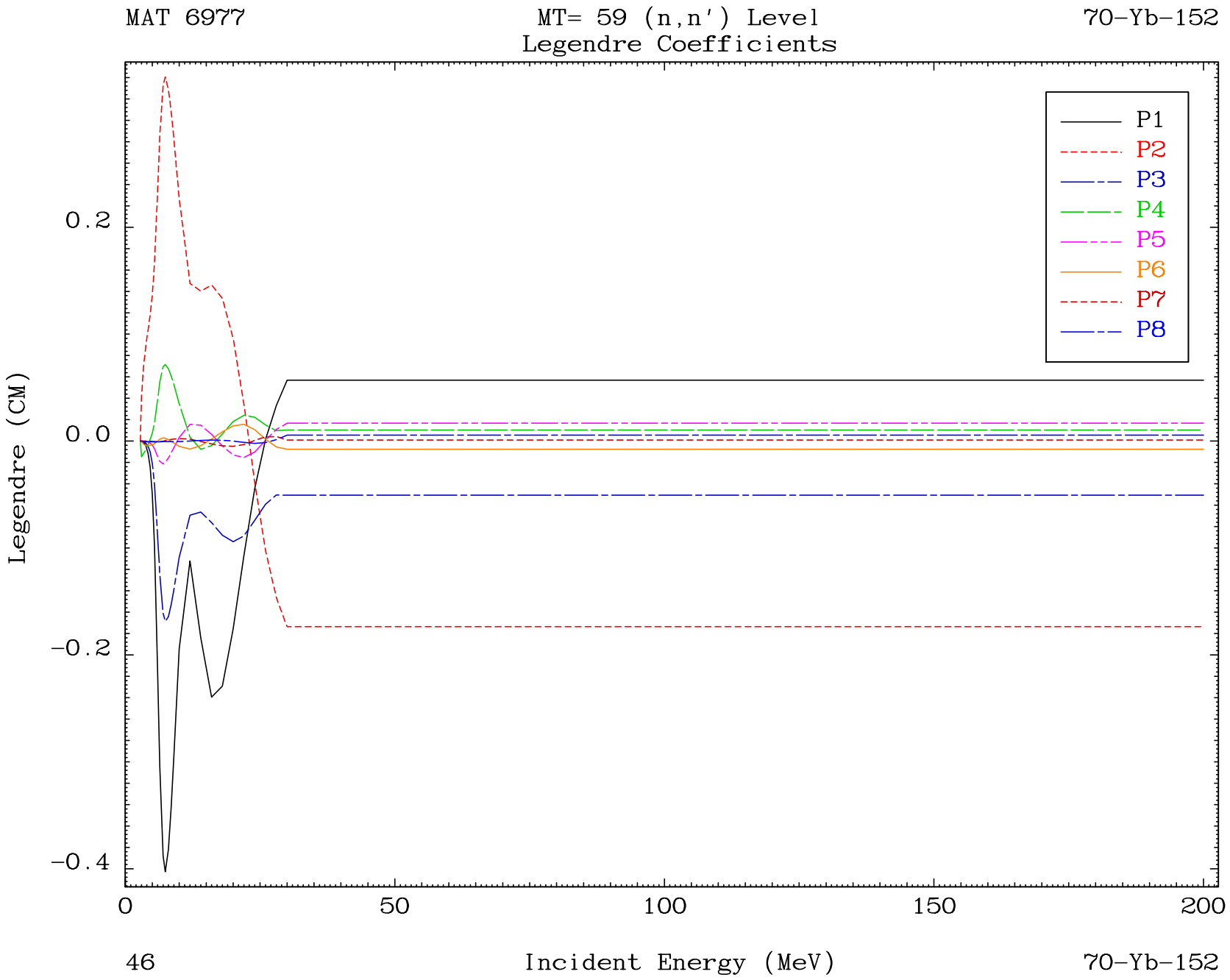

MAT 6977
MT= 57 (n,n') Level
Legendre Coefficients
70-Yb-152
Legendre (CM)
0.20
0.15
0.10
0.05
0.00
0
50
100
150
200
Incident Energy (MeV)
41
70-Yb-152
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10

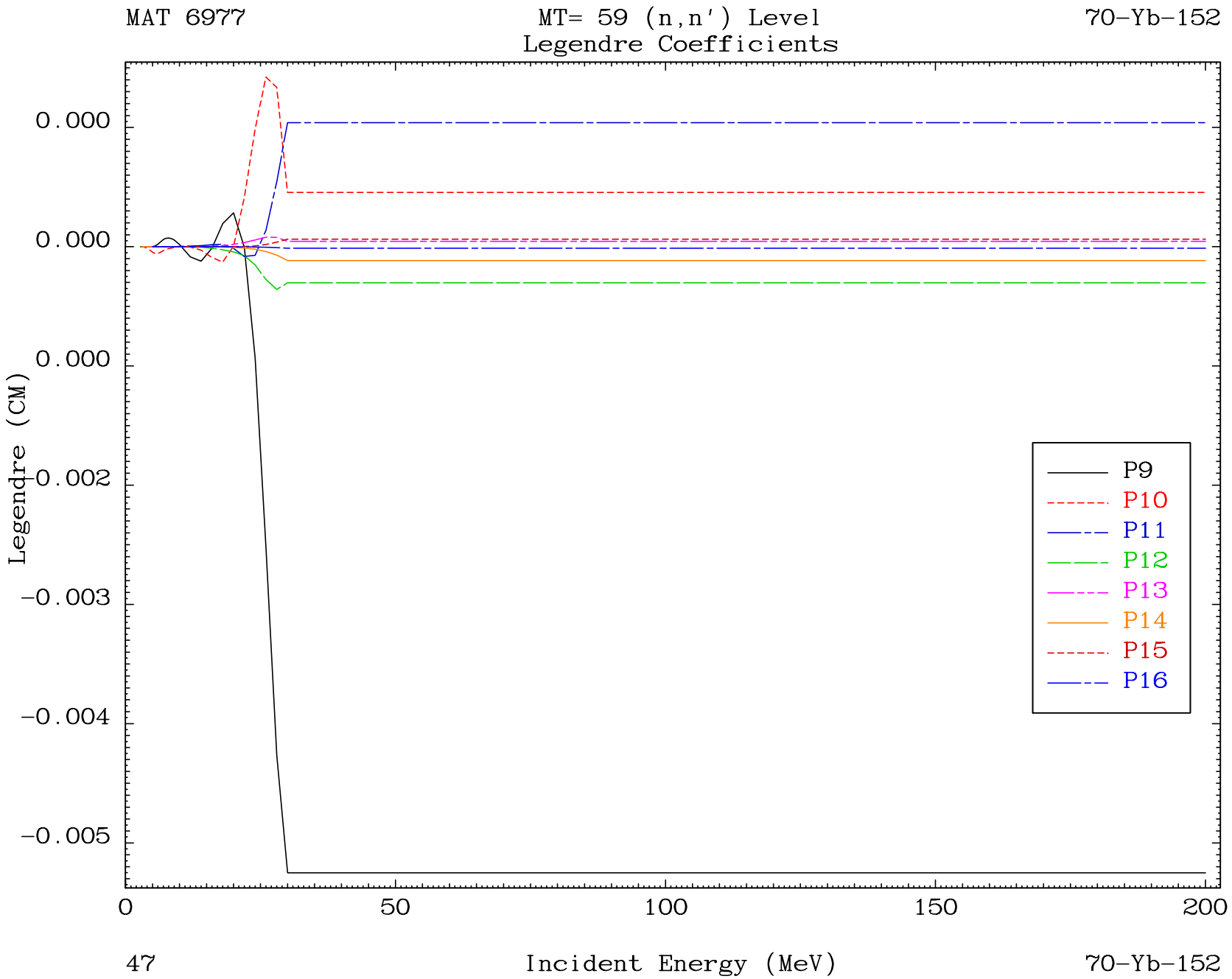

MAT 6977
MT= 57 (n,n') Level
Legendre Coefficients
70-Yb-152
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.012
0.008
0.004
0.000
Legendre (CM)
50
100
150
200
42
Incident Energy (MeV)
70-Yb-152

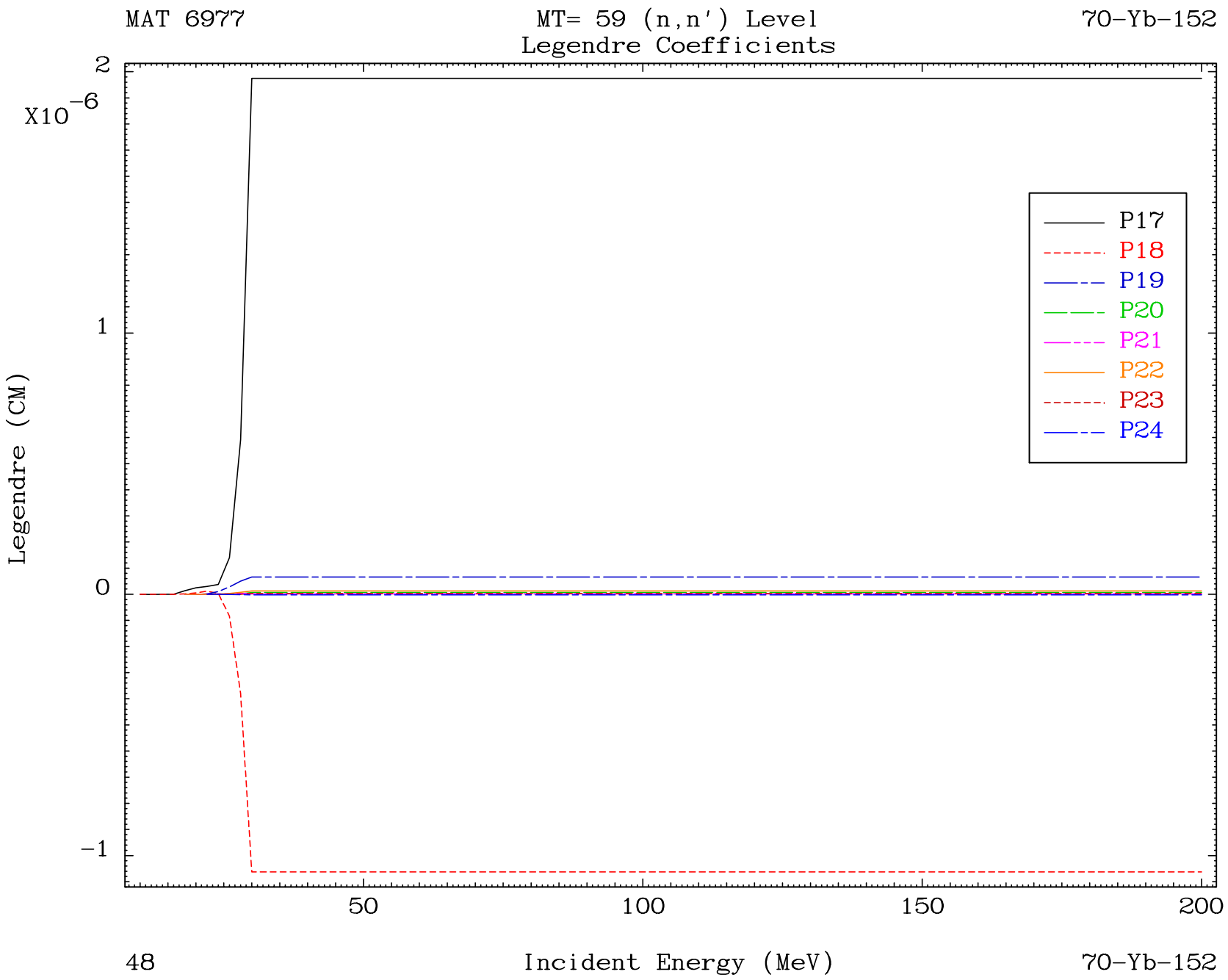

MAT 6977
MT= 57 (n,n') Level
Legendre Coefficients
70-Yb-152
X10 -6
5
4
3
2
1
0
Legendre (CM)
50
100
150
200
P21
P22
P23
P24
P25
P26
P27
P28
43
Incident Energy (MeV)
70-Yb-152

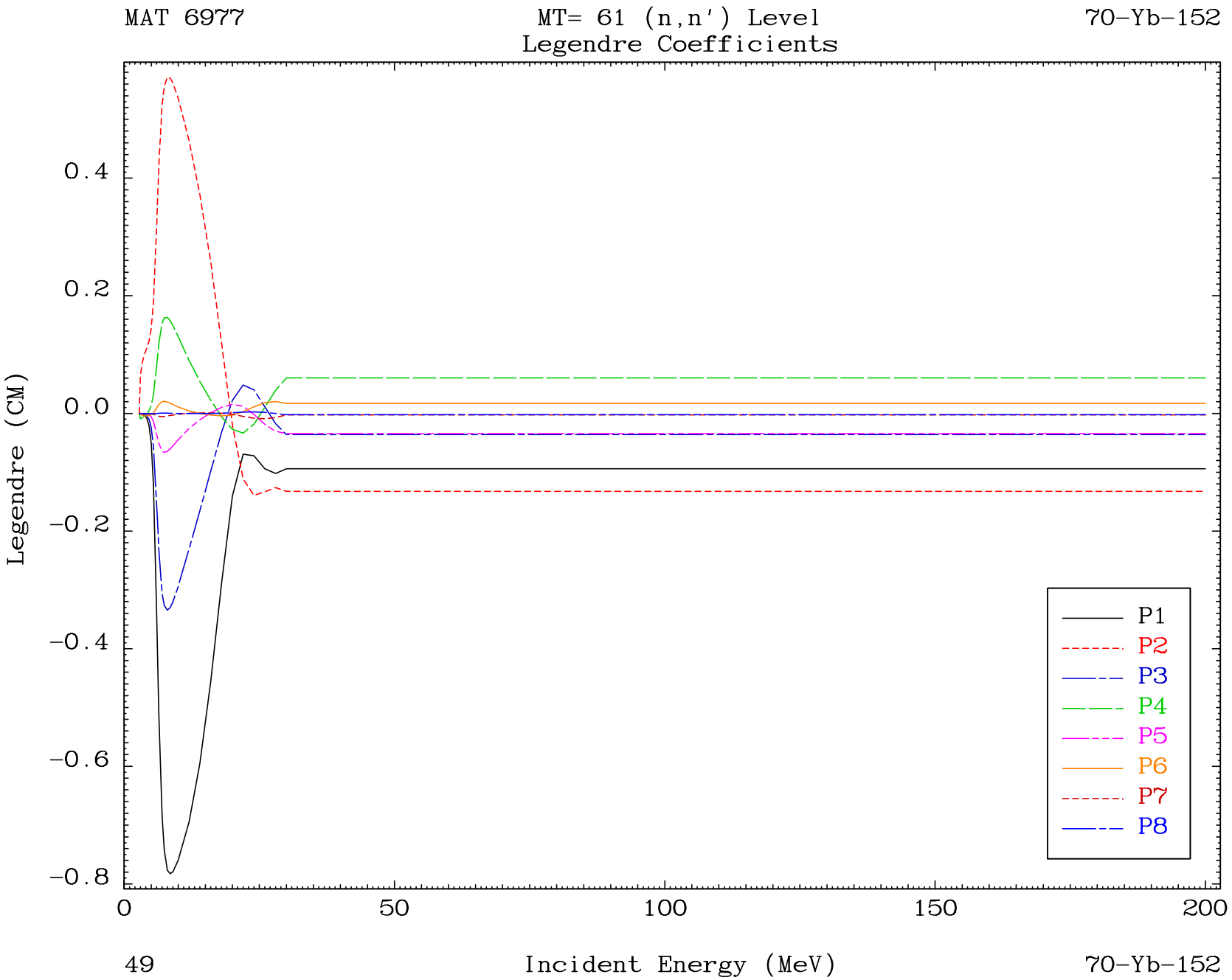

MAT 6977
MT= 58 (n,n') Level
Legendre Coefficients
70-Yb-152
1.0
0.5
0.0
-0.5
Legendre (CM)
0
50
100
150
200
Incident Energy (MeV)
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11
44
70-Yb-152

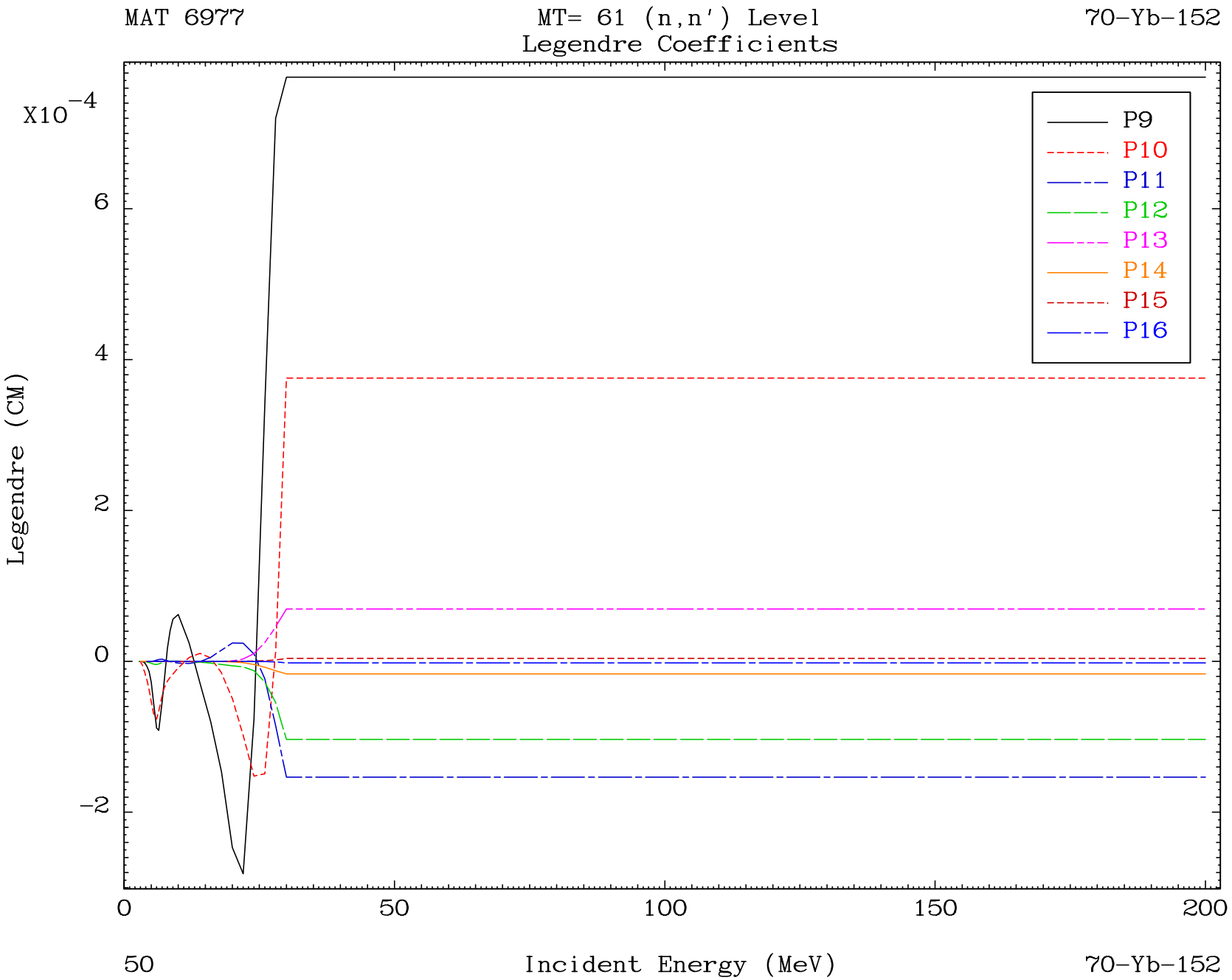

MAT 6977
MT= 58 (n,n') Level
Legendre Coefficients
70-Yb-152
X10^-6
0
-2
-4
-6
Legendre (CM)
0
50
100
150
200
45
Incident Energy (MeV)
70-Yb-152
P12
P13
P14
P15
P16
P17
P18
P19
P20
P21
P22

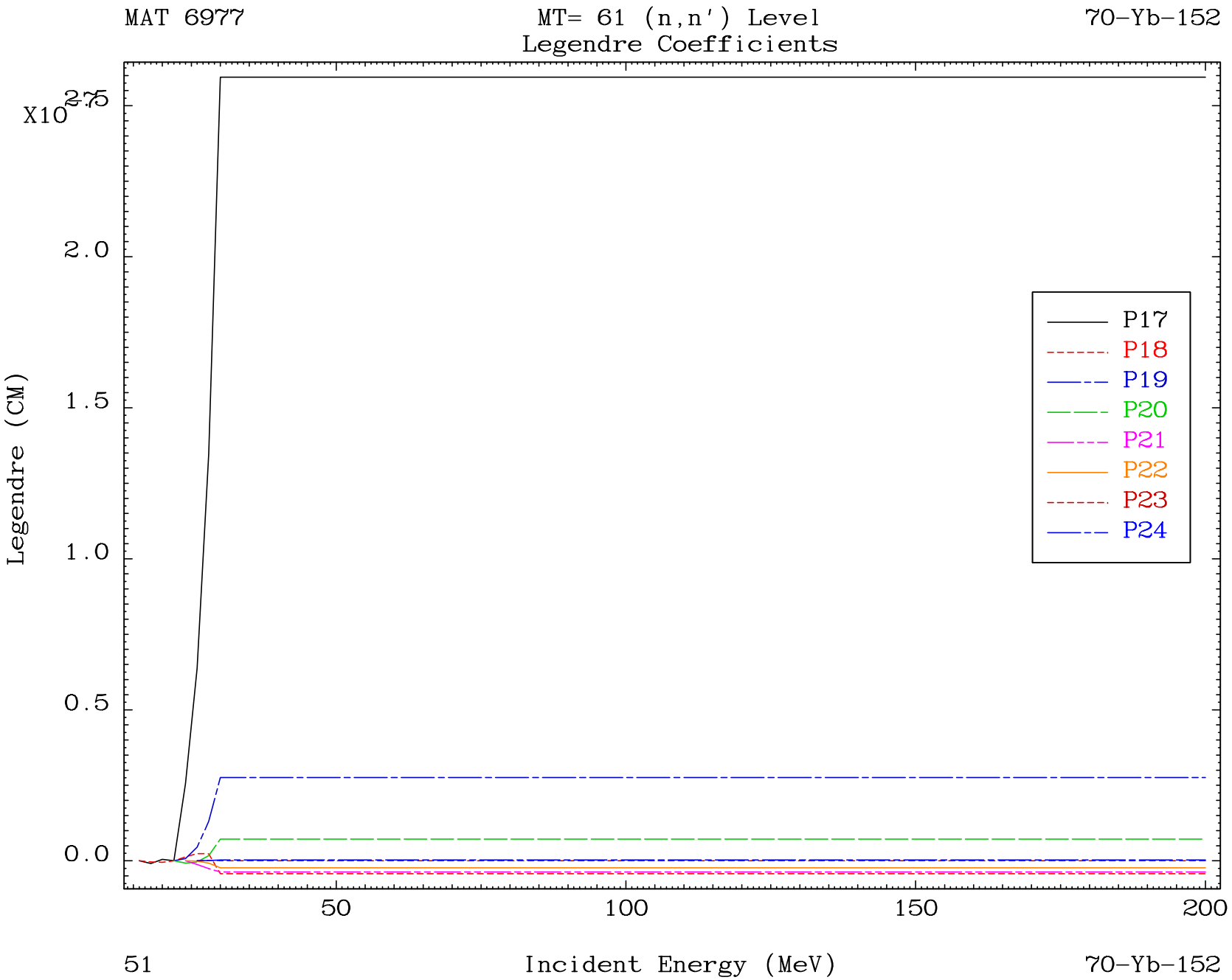

MAT 6977
MT= 59 (n,n') Level
Legendre Coefficients
70-Yb-152
P1
P2
P3
P4
P5
P6
P7
P8
0.2
0.0
−0.2
−0.4
Legendre (CM)
0
50
100
150
200
46
Incident Energy (MeV)
70-Yb-152

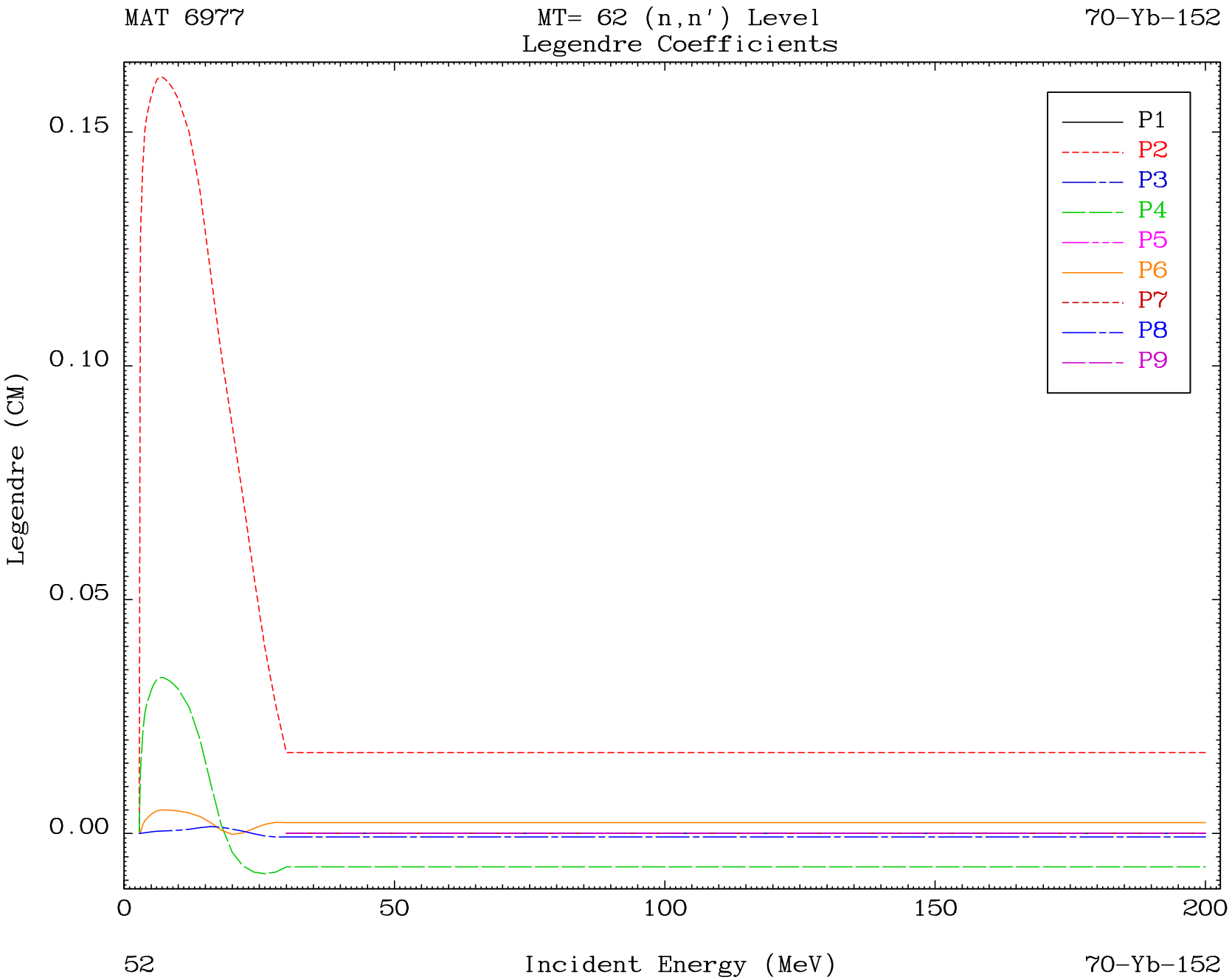

MAT 6977
MT= 59 (n,n') Level
Legendre Coefficients
70-Yb-152
0.000
0.000
0.000
-0.002
-0.003
-0.004
-0.005
Legendre (CM)
0
50
100
150
200
47
Incident Energy (MeV)
70-Yb-152
P9
P10
P11
P12
P13
P14
P15
P16

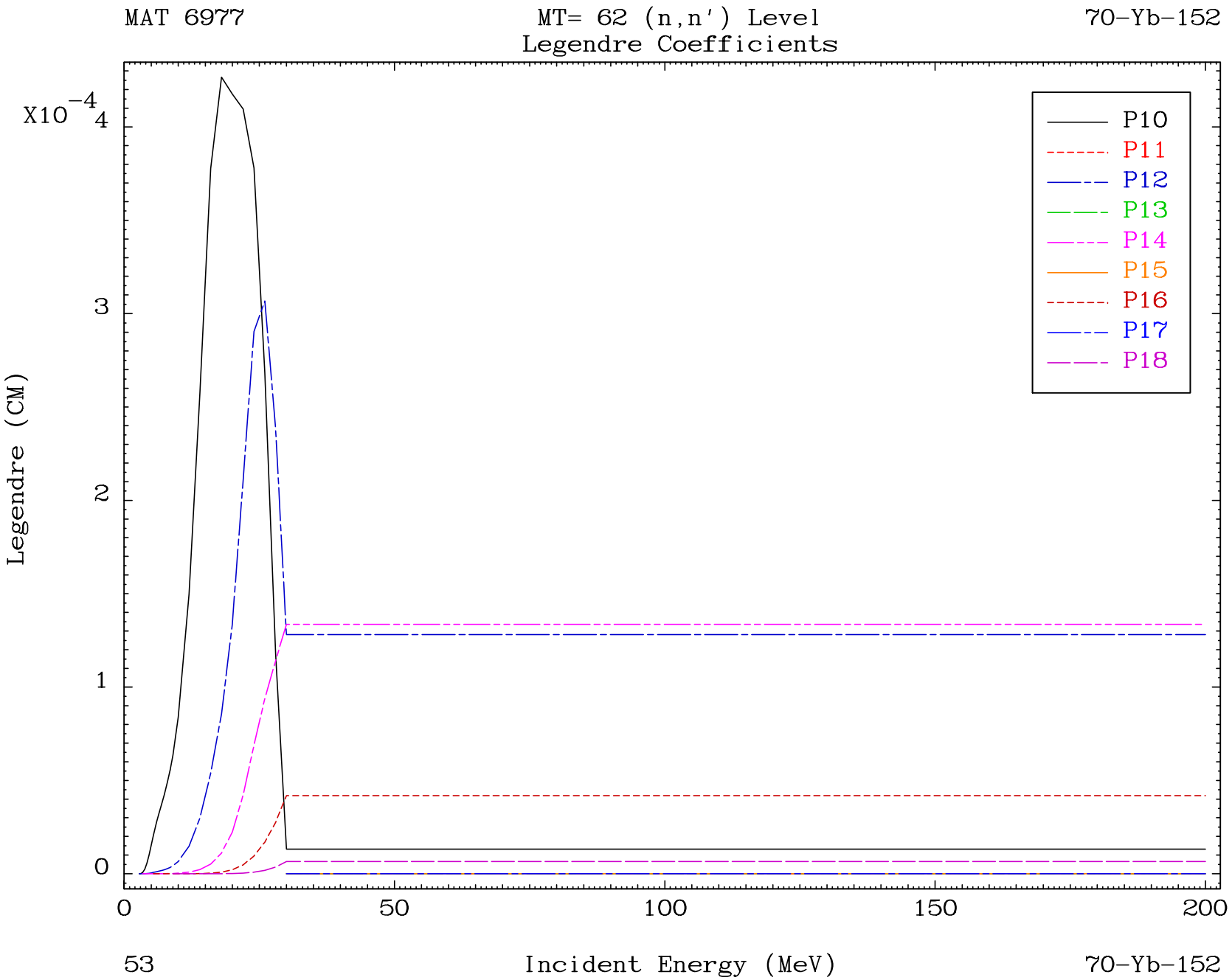

MAT 6977
MT= 59 (n,n') Level
Legendre Coefficients
70-Yb-152
X10^-6
2
1
0
-1
Legendre (CM)
P17
P18
P19
P20
P21
P22
P23
P24
50
100
150
200
48
Incident Energy (MeV)
70-Yb-152

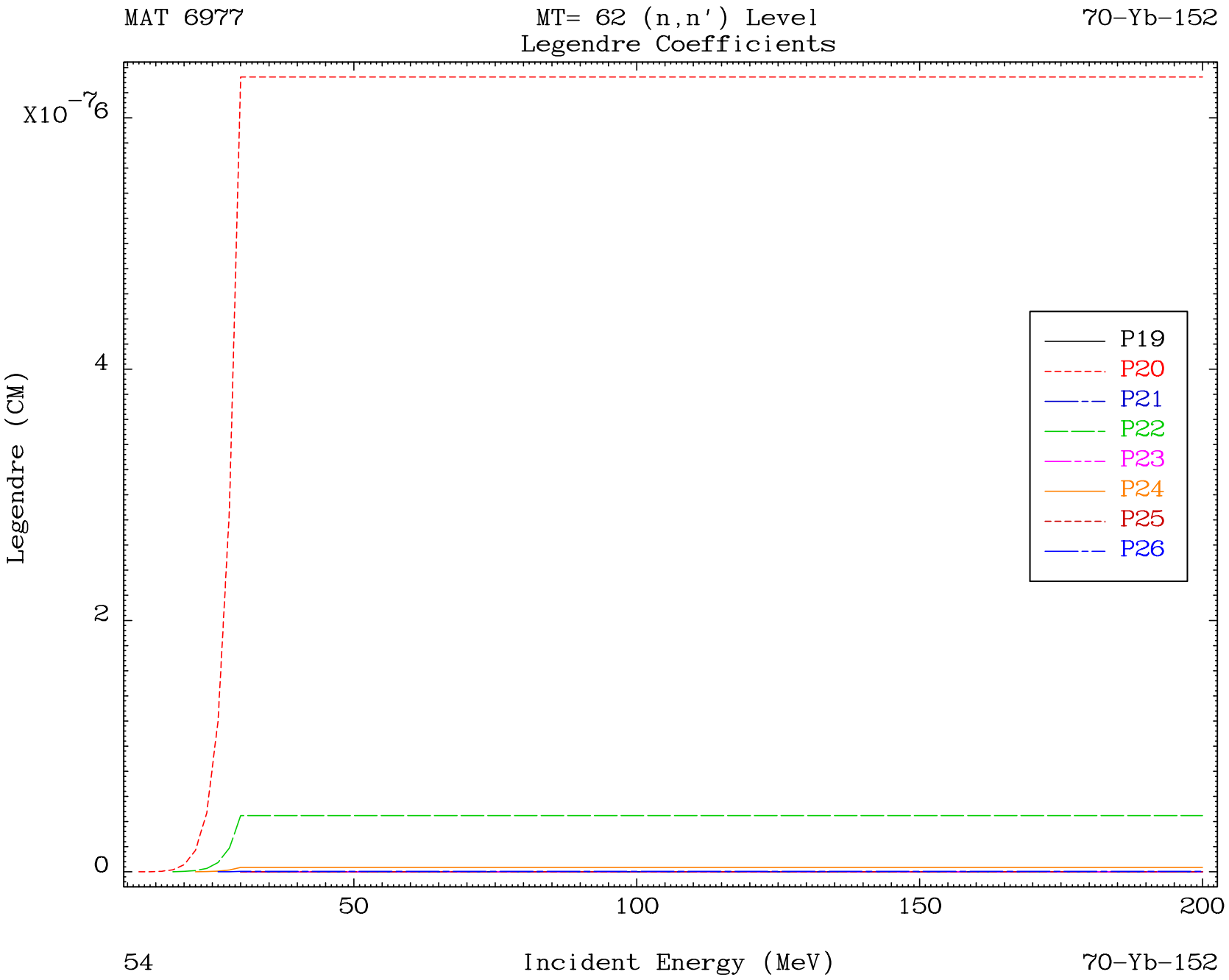

MAT 6977
MT= 61 (n,n') Level
Legendre Coefficients
70-Yb-152
Legendre (CM)
0.4
0.2
0.0
-0.2
-0.4
-0.6
-0.8
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
49
Incident Energy (MeV)
70-Yb-152

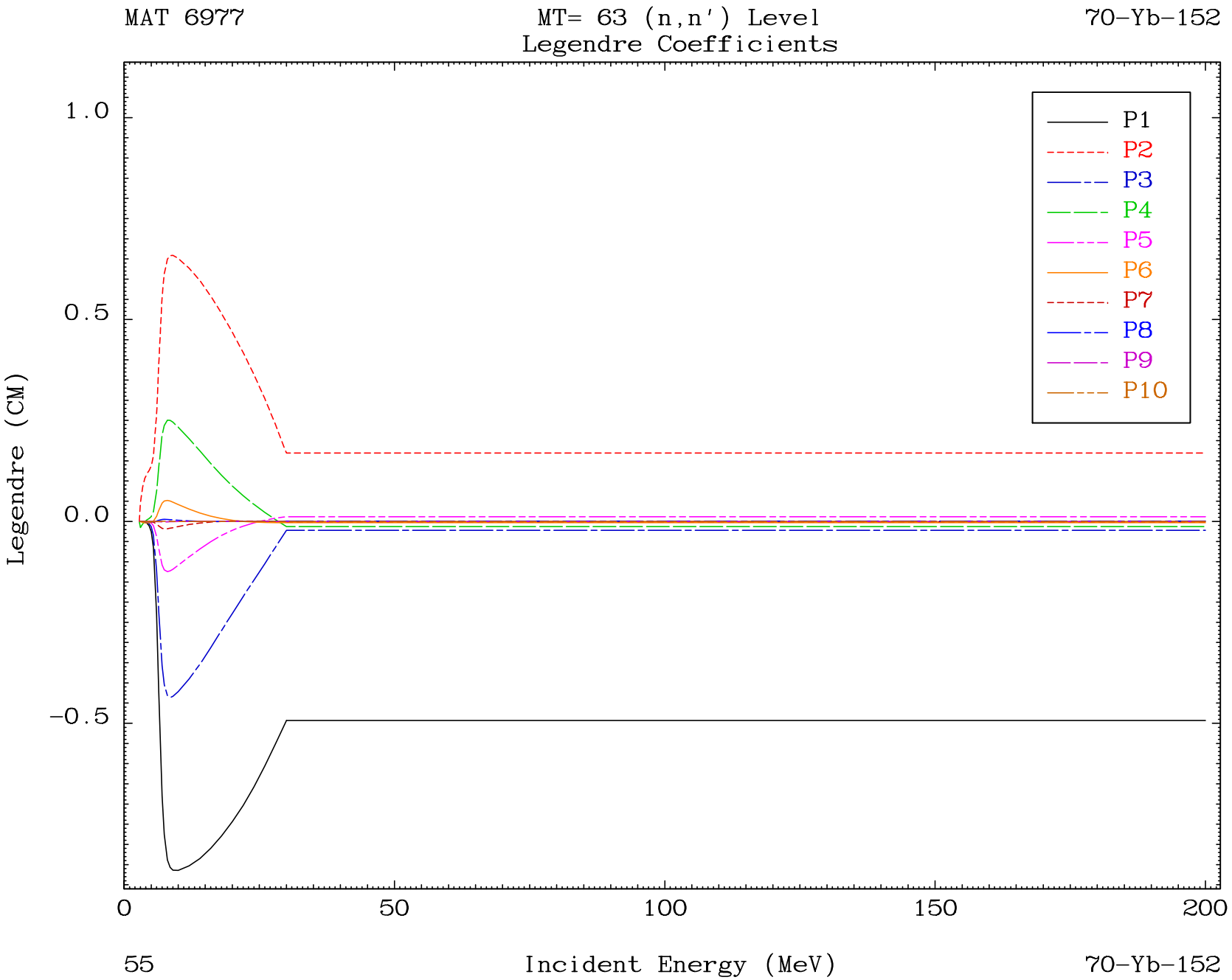

MAT 6977
MT= 61 (n,n') Level
Legendre Coefficients
70-Yb-152
X10^-4
6
4
2
0
-2
Legendre (CM)
P9
P10
P11
P12
P13
P14
P15
P16
0
50
100
150
200
50
Incident Energy (MeV)
70-Yb-152

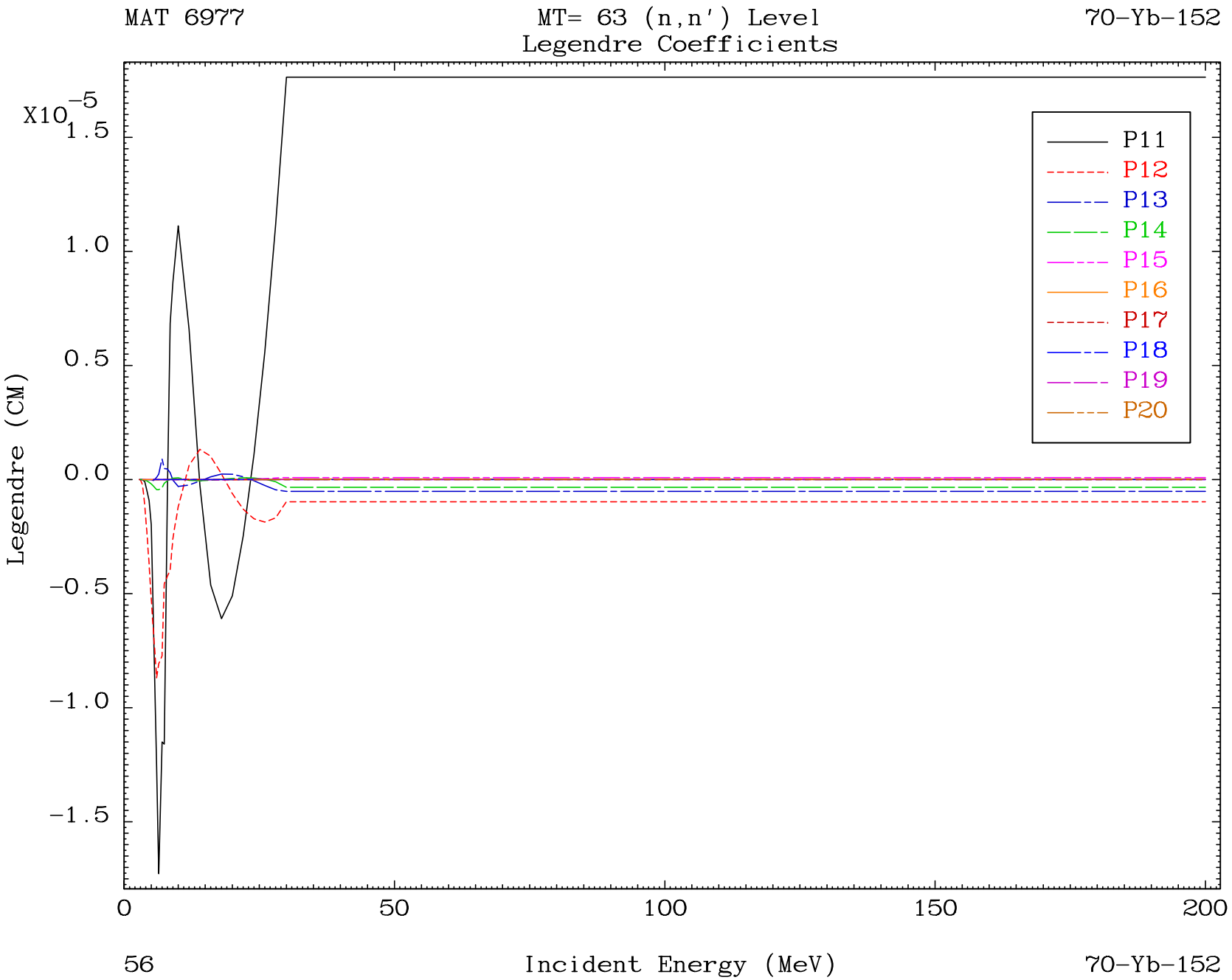

MAT 6977
MT= 61 (n,n') Level
Legendre Coefficients
70-Yb-152
X10-2
2.5
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
50
100
150
200
51
Incident Energy (MeV)
70-Yb-152
P17
P18
P19
P20
P21
P22
P23
P24

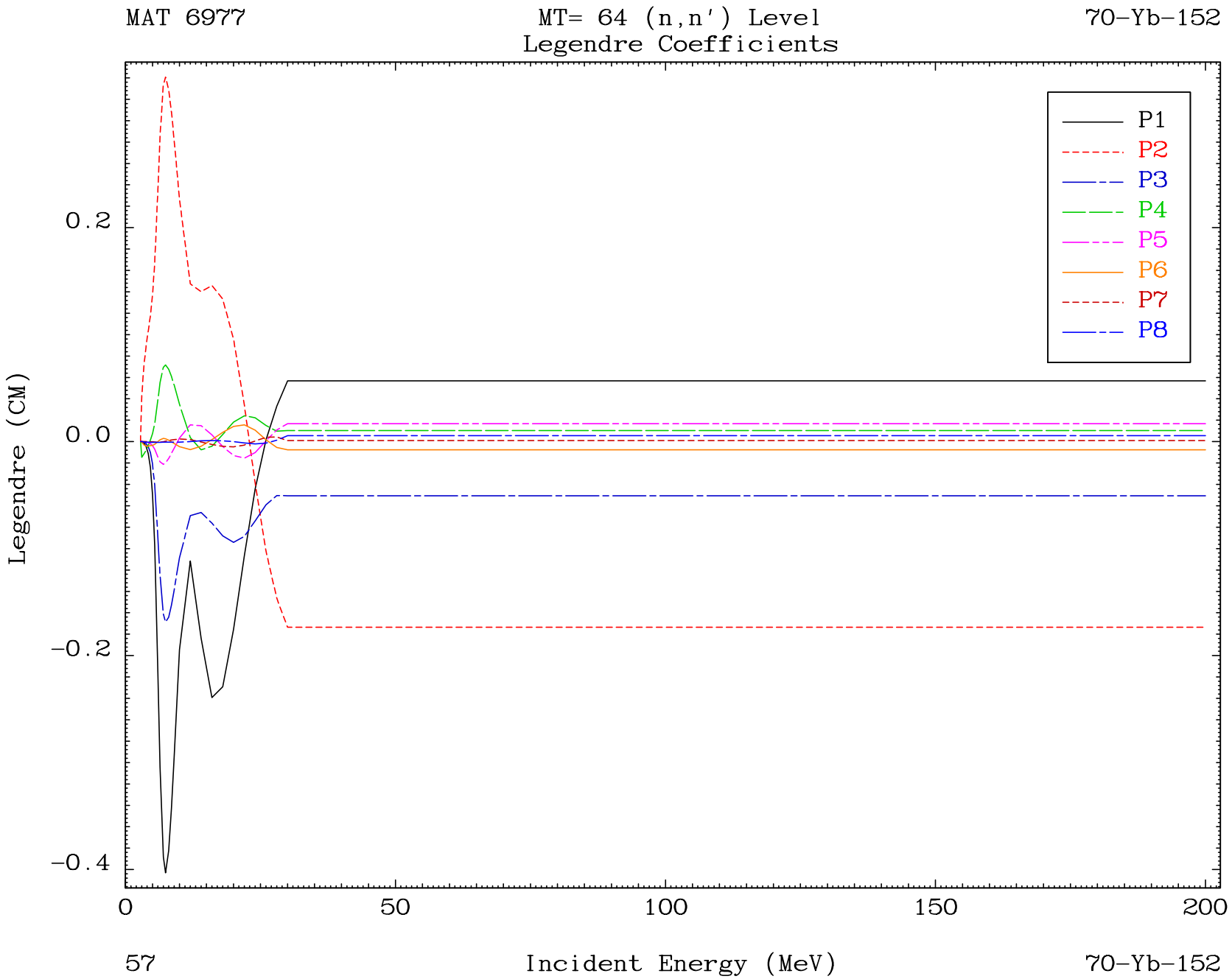

MAT 6977
MT= 62 (n,n') Level
Legendre Coefficients
70-Yb-152
0.15
0.10
0.05
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
52
Incident Energy (MeV)
70-Yb-152

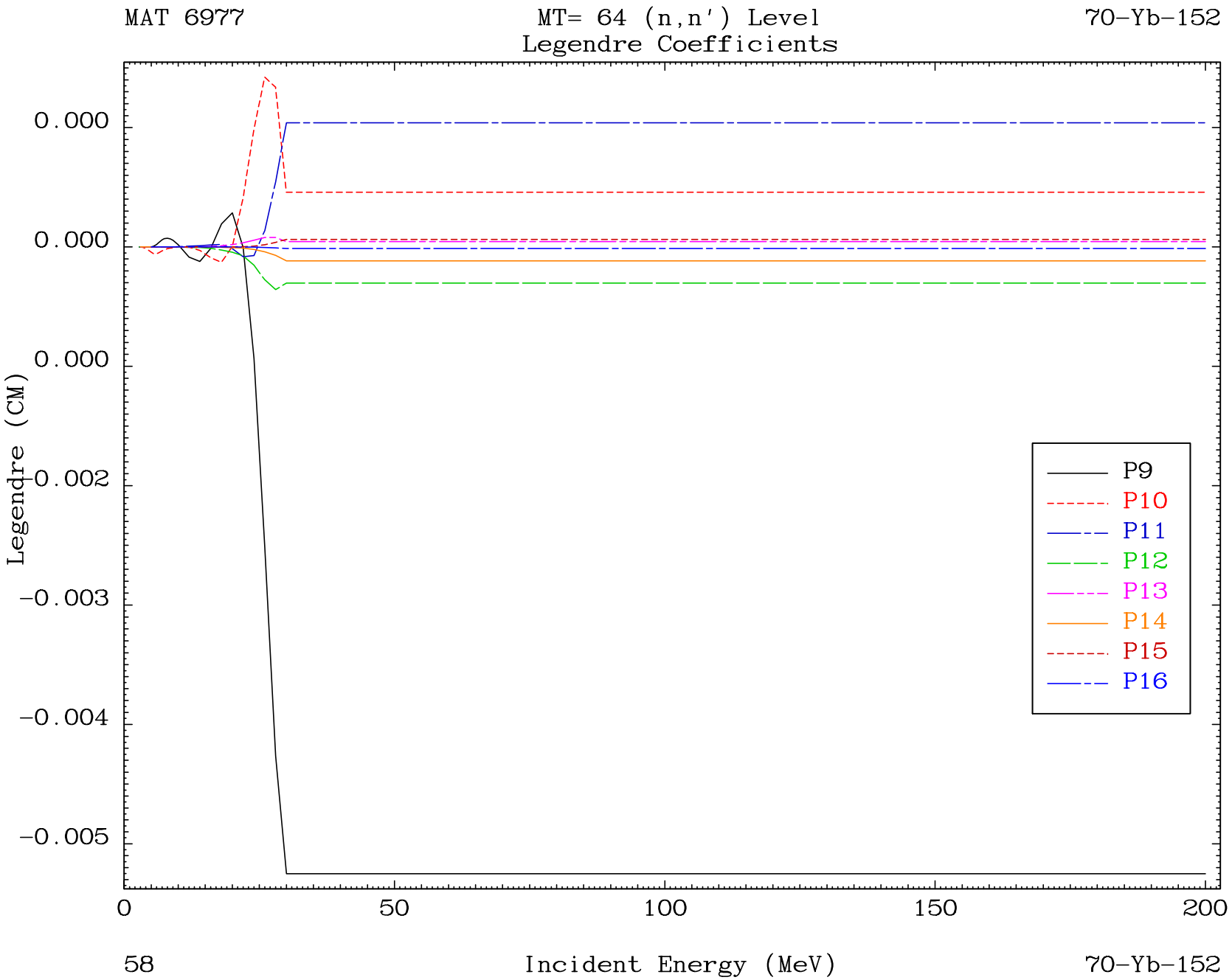

MAT 6977
MT= 62 (n,n') Level
Legendre Coefficients
70-Yb-152
X10^-4
4
3
2
1
0
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
53
Incident Energy (MeV)
70-Yb-152

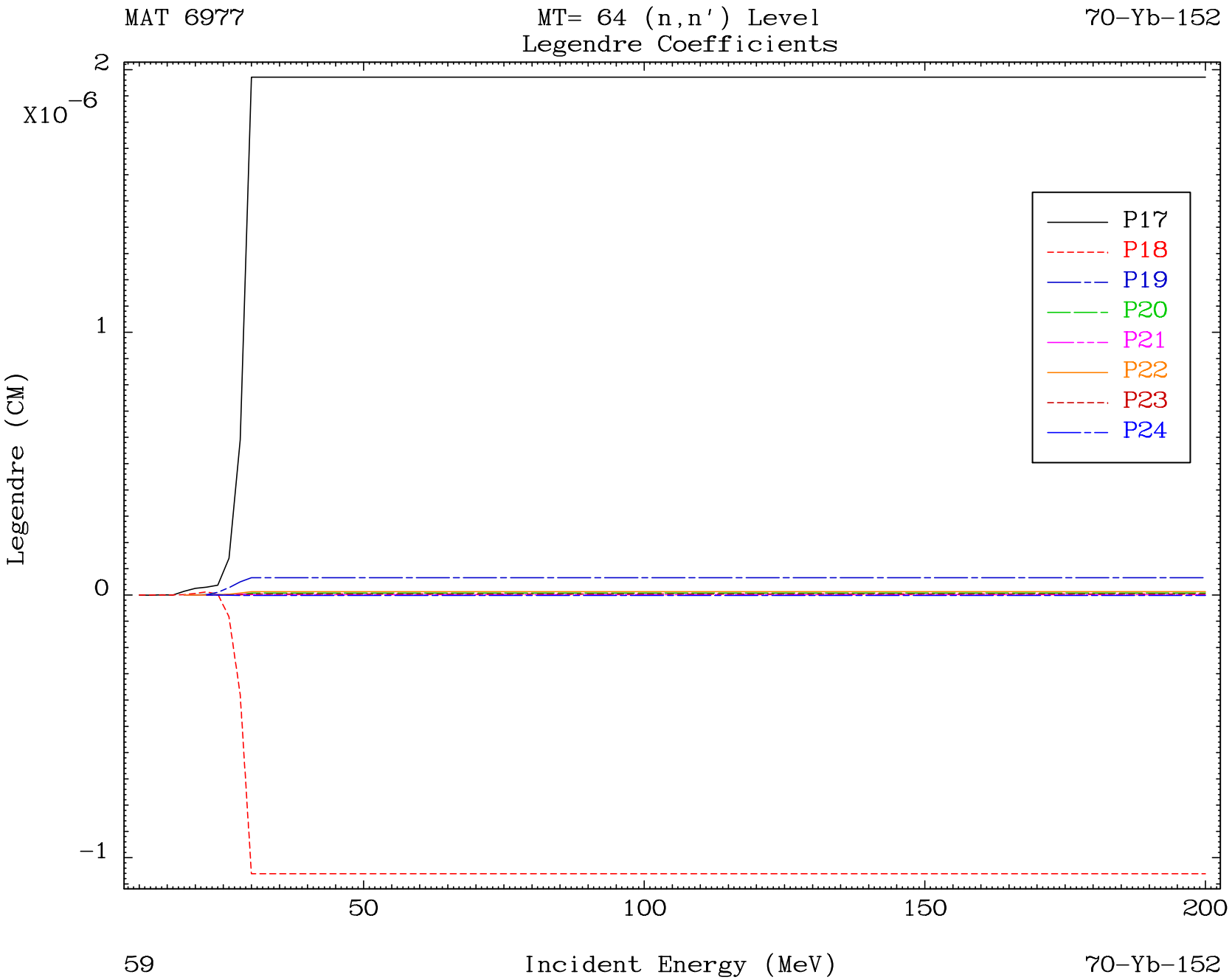

MAT 6977
MT= 62 (n,n') Level
Legendre Coefficients
70-Yb-152
X10^-7
6
4
2
0
Legendre (CM)
50
100
150
200
54
Incident Energy (MeV)
70-Yb-152
P19
P20
P21
P22
P23
P24
P25
P26

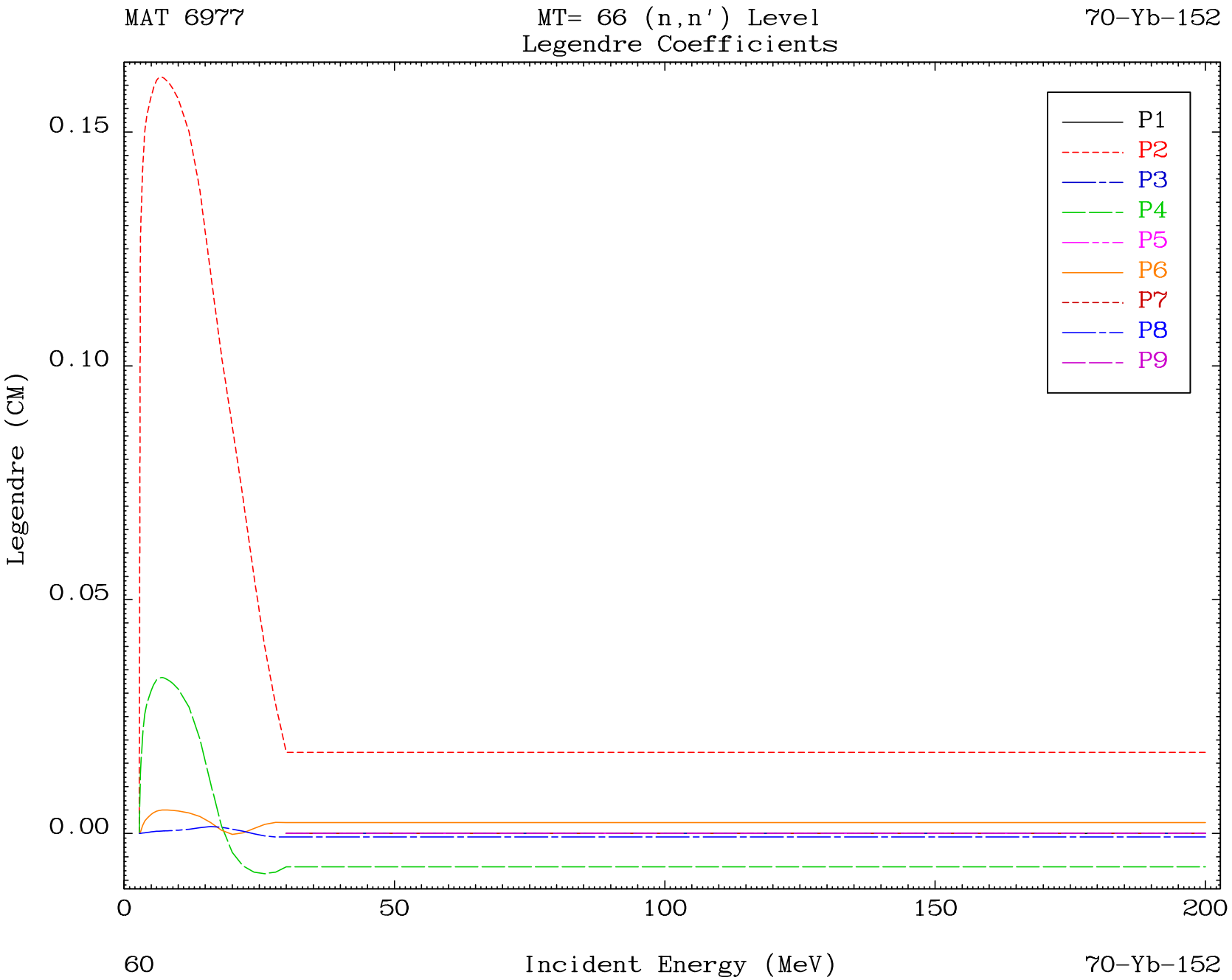

MAT 6977
MT= 63 (n,n') Level
Legendre Coefficients
70-Yb-152
1.0
0.5
0.0
-0.5
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
0
50
100
150
200
55
Incident Energy (MeV)
70-Yb-152

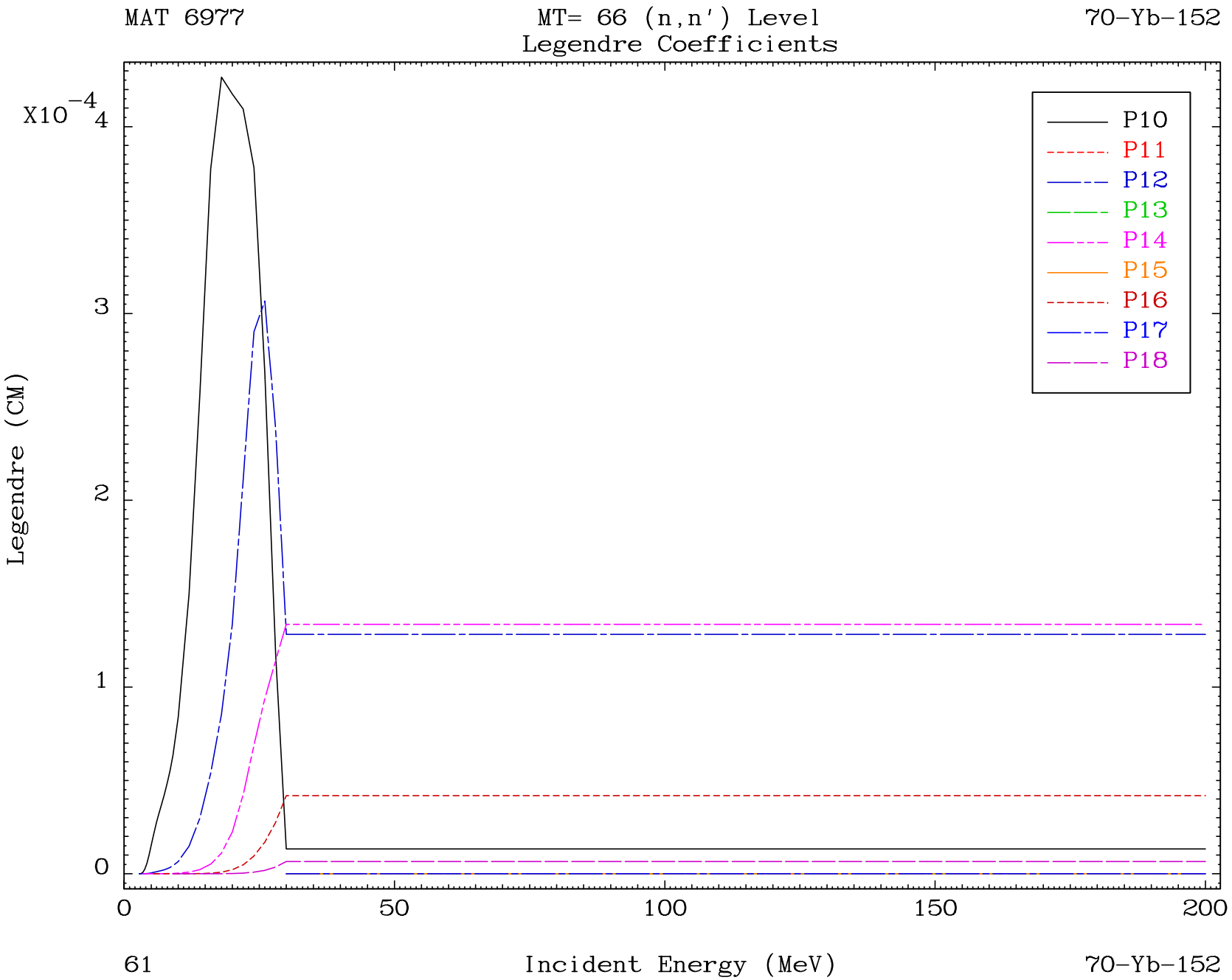

MAT 6977
MT= 63 (n,n') Level
Legendre Coefficients
70-Yb-152
X10-5
1.5
1.0
0.5
0.0
-0.5
-1.0
-1.5
Legendre (CM)
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0
50
100
150
200
56
Incident Energy (MeV)
70-Yb-152

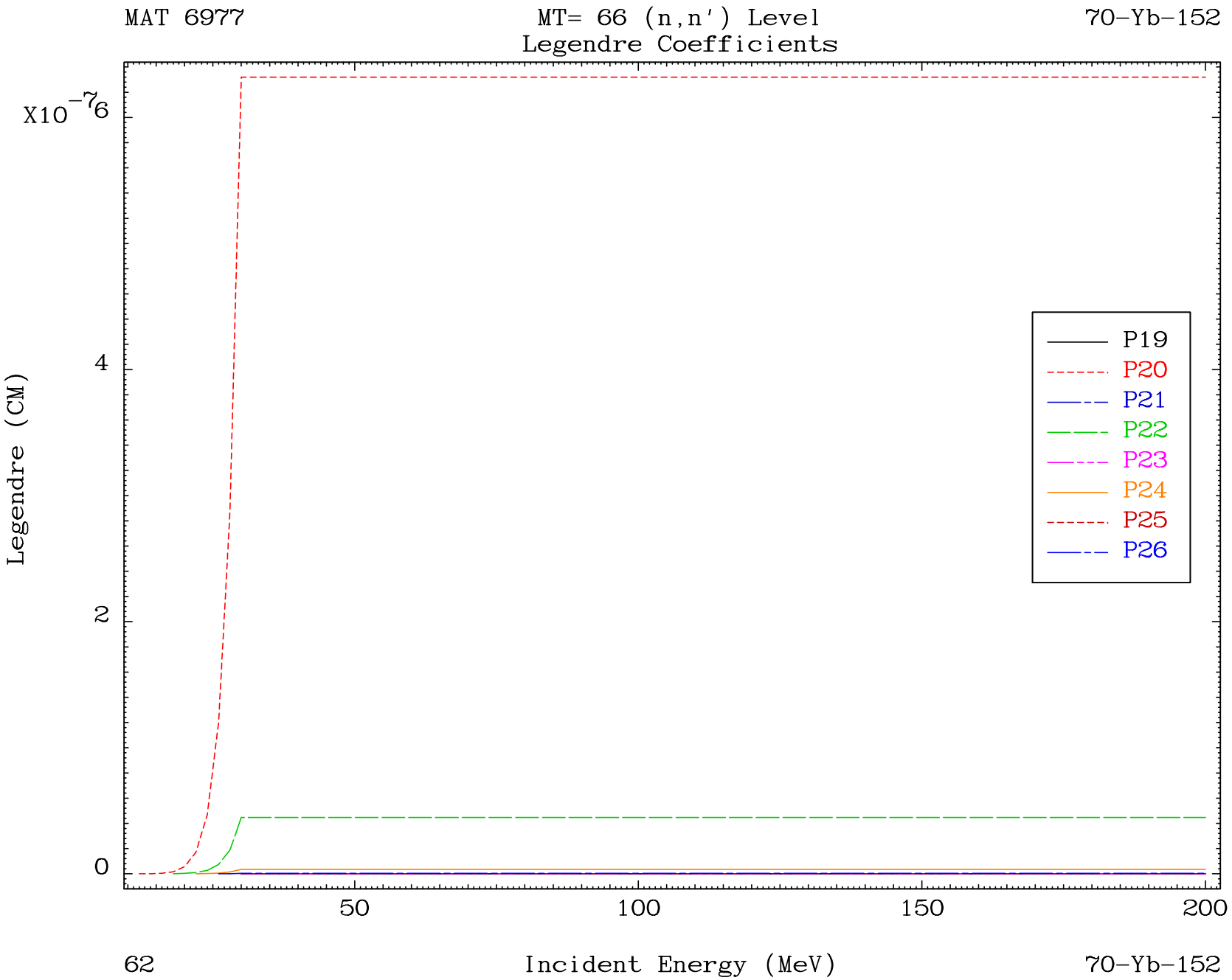

MAT 6977
MT= 64 (n,n') Level
Legendre Coefficients
70-Yb-152
P1
P2
P3
P4
P5
P6
P7
P8
0.2
0.0
−0.2
−0.4
Legendre (CM)
0
50
100
150
200
57
Incident Energy (MeV)
70-Yb-152

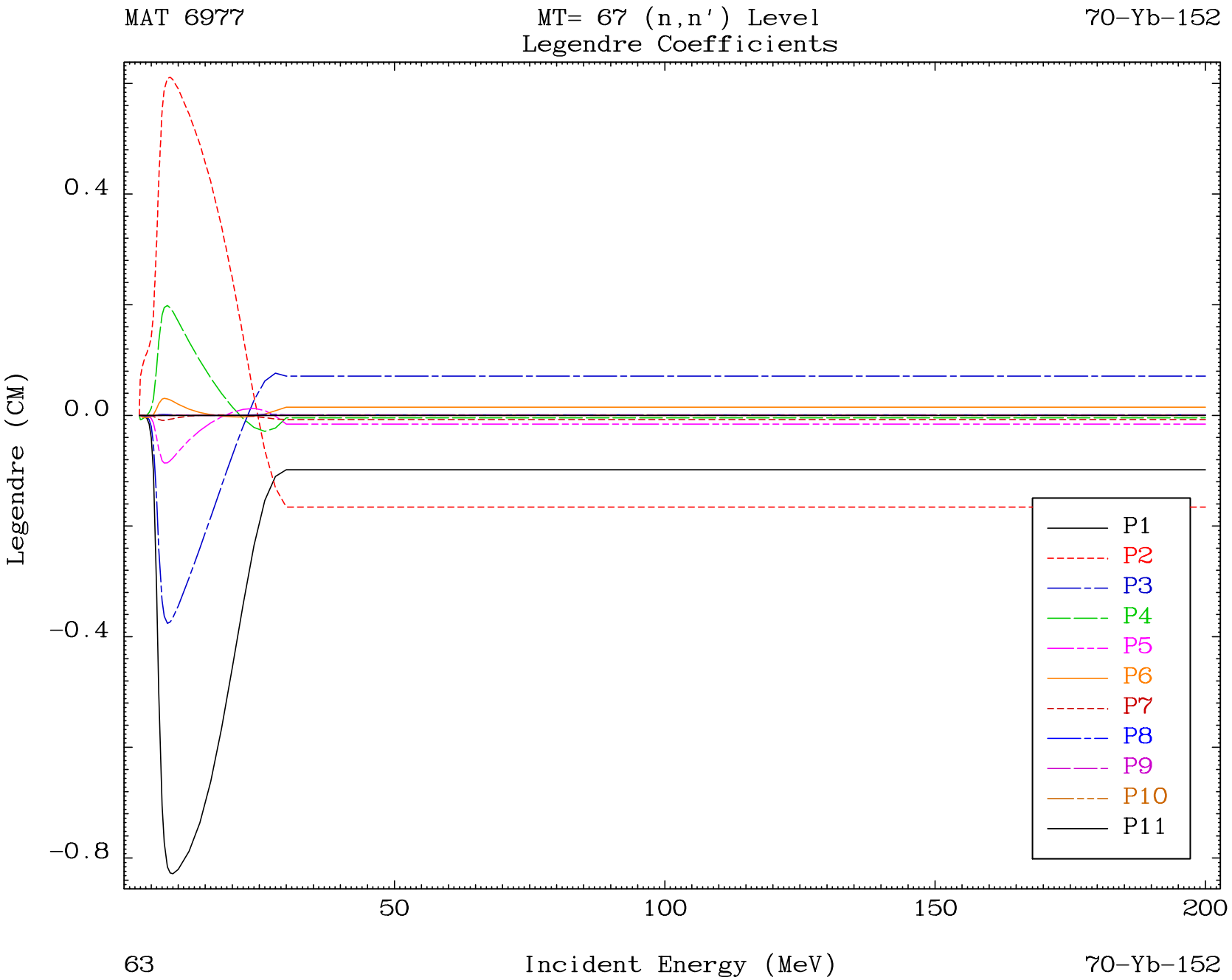

MAT 6977
MT= 64 (n,n') Level
Legendre Coefficients
70-Yb-152
0.000
0.000
0.000
-0.002
-0.003
-0.004
-0.005
Legendre (CM)
0
50
100
150
200
58
Incident Energy (MeV)
70-Yb-152
P9
P10
P11
P12
P13
P14
P15
P16

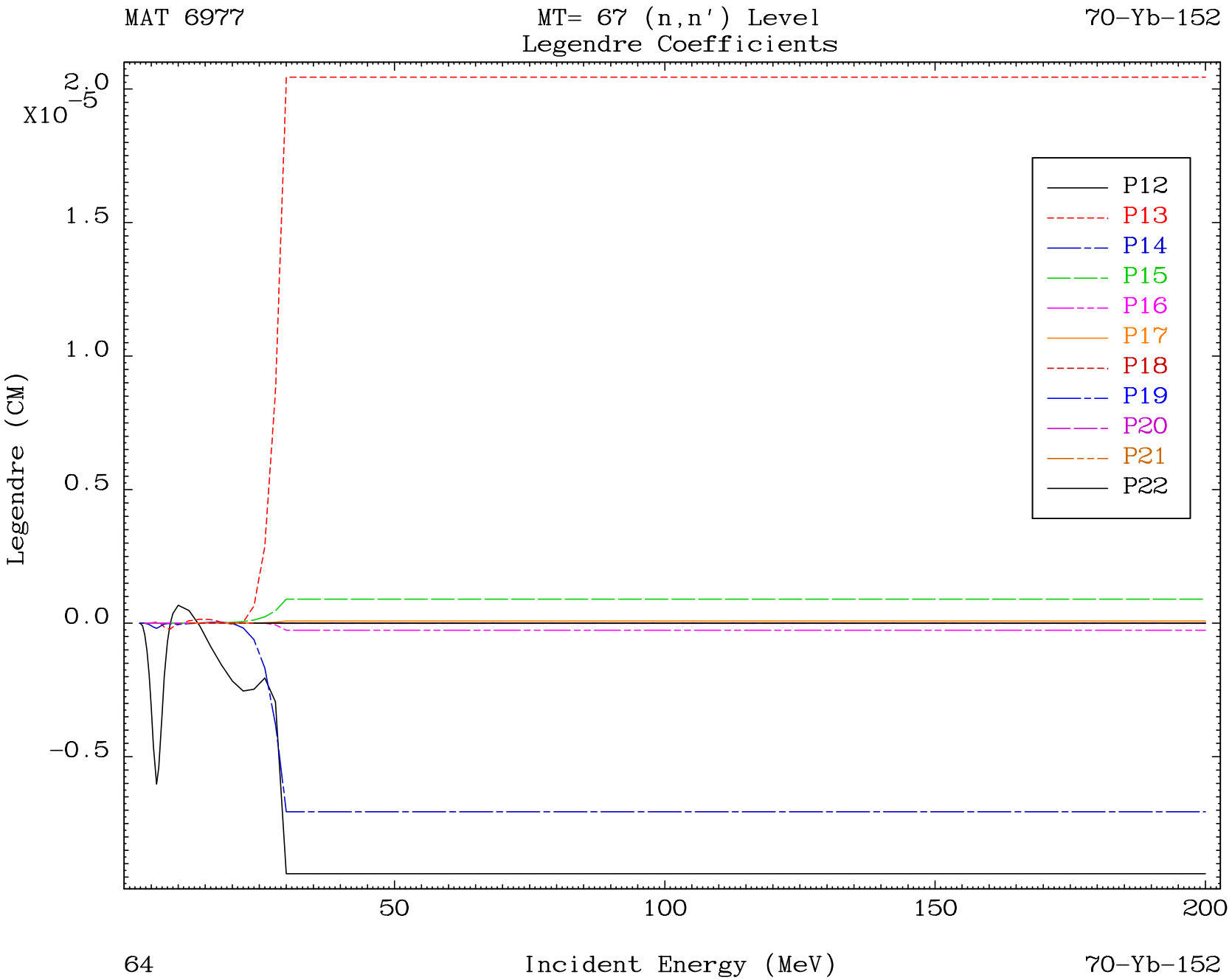

MAT 6977
MT= 64 (n,n') Level
Legendre Coefficients
70-Yb-152
X10^-6
2
1
0
-1
Legendre (CM)
P17
P18
P19
P20
P21
P22
P23
P24
50
100
150
200
59
Incident Energy (MeV)
70-Yb-152

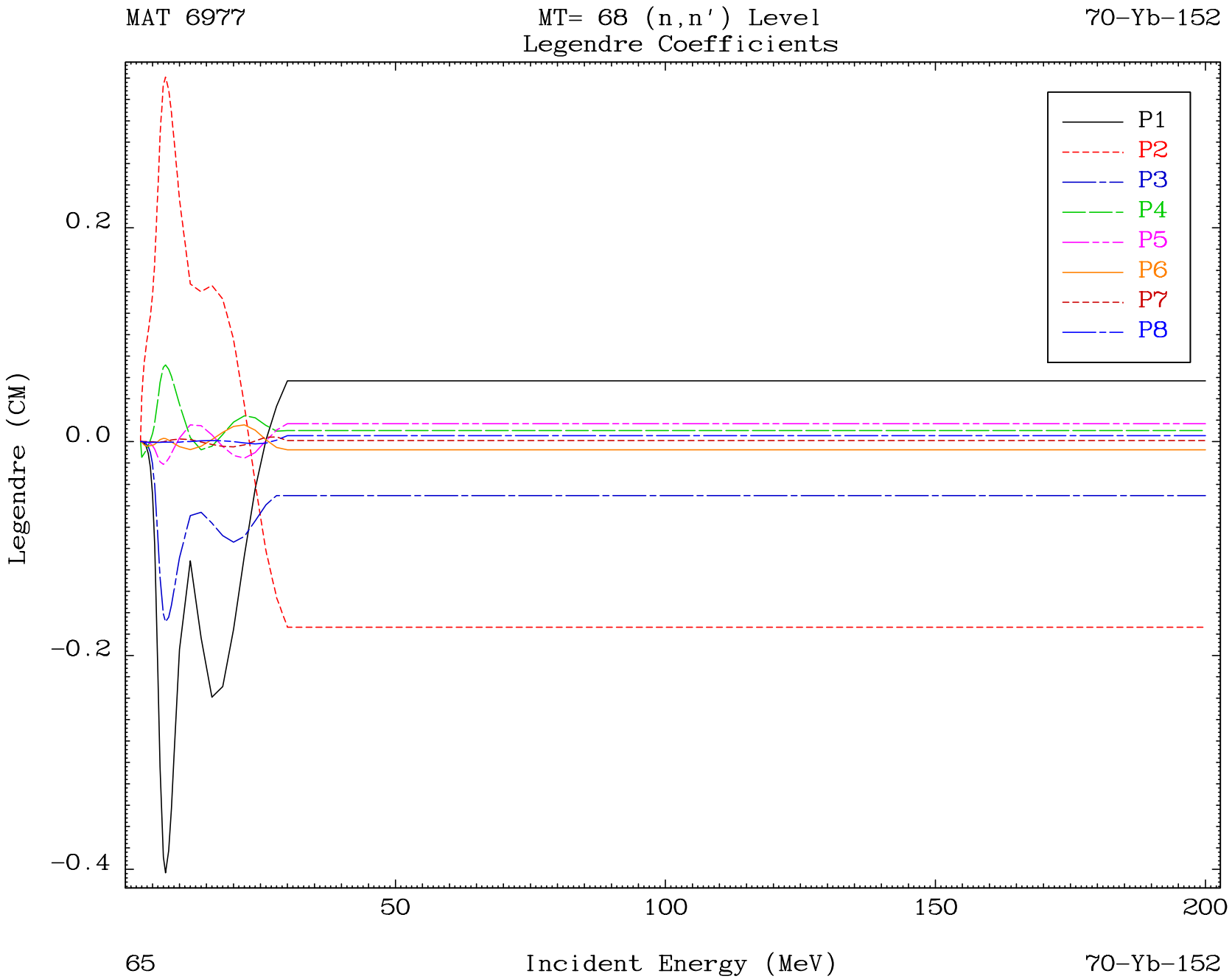

MAT 6977
MT= 66 (n,n') Level
Legendre Coefficients
70-Yb-152
0.15
0.10
0.05
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
60
Incident Energy (MeV)
70-Yb-152

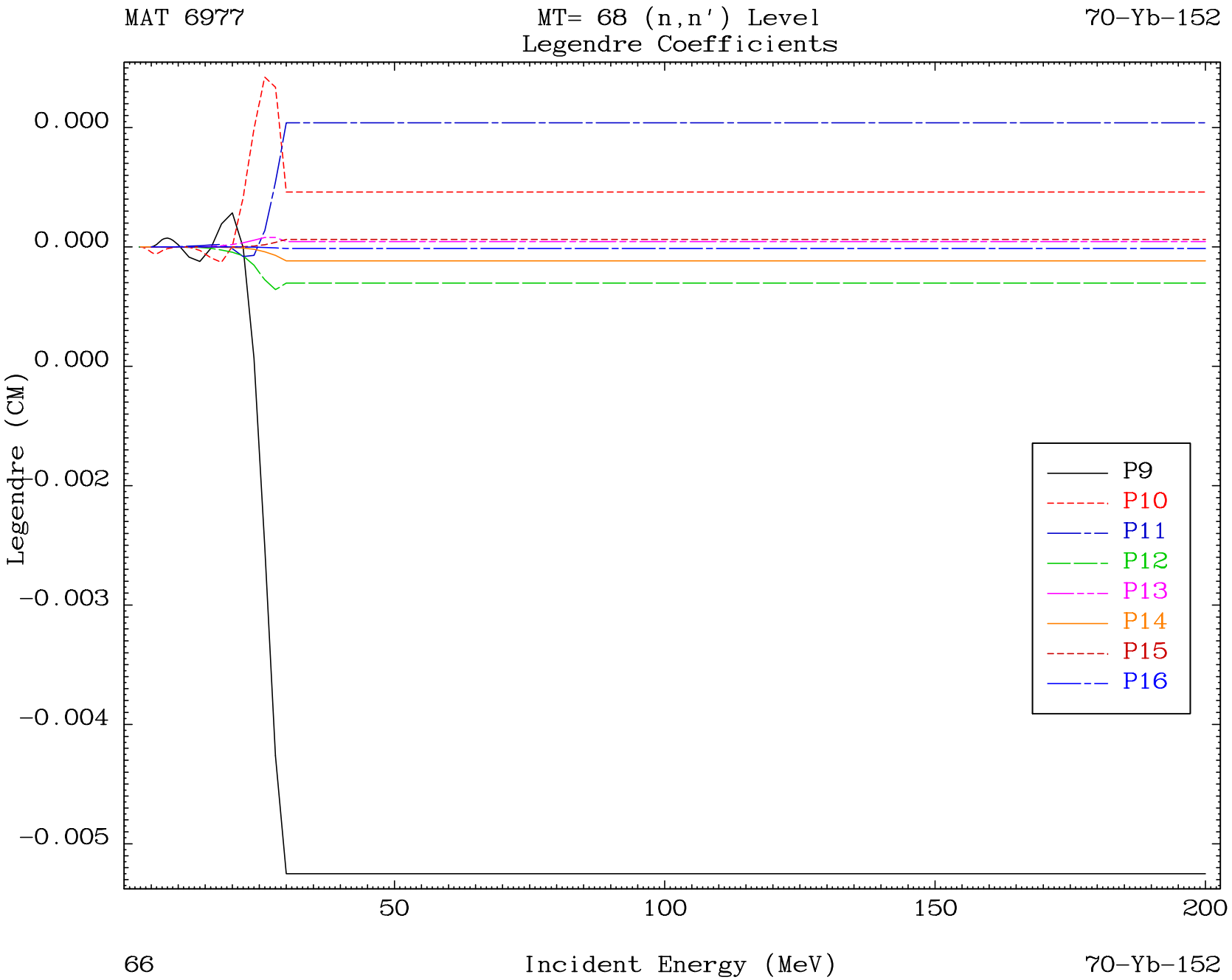

MAT 6977
MT= 66 (n,n') Level
Legendre Coefficients
70-Yb-152
X10^-4
4
3
2
1
0
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
61
Incident Energy (MeV)
70-Yb-152

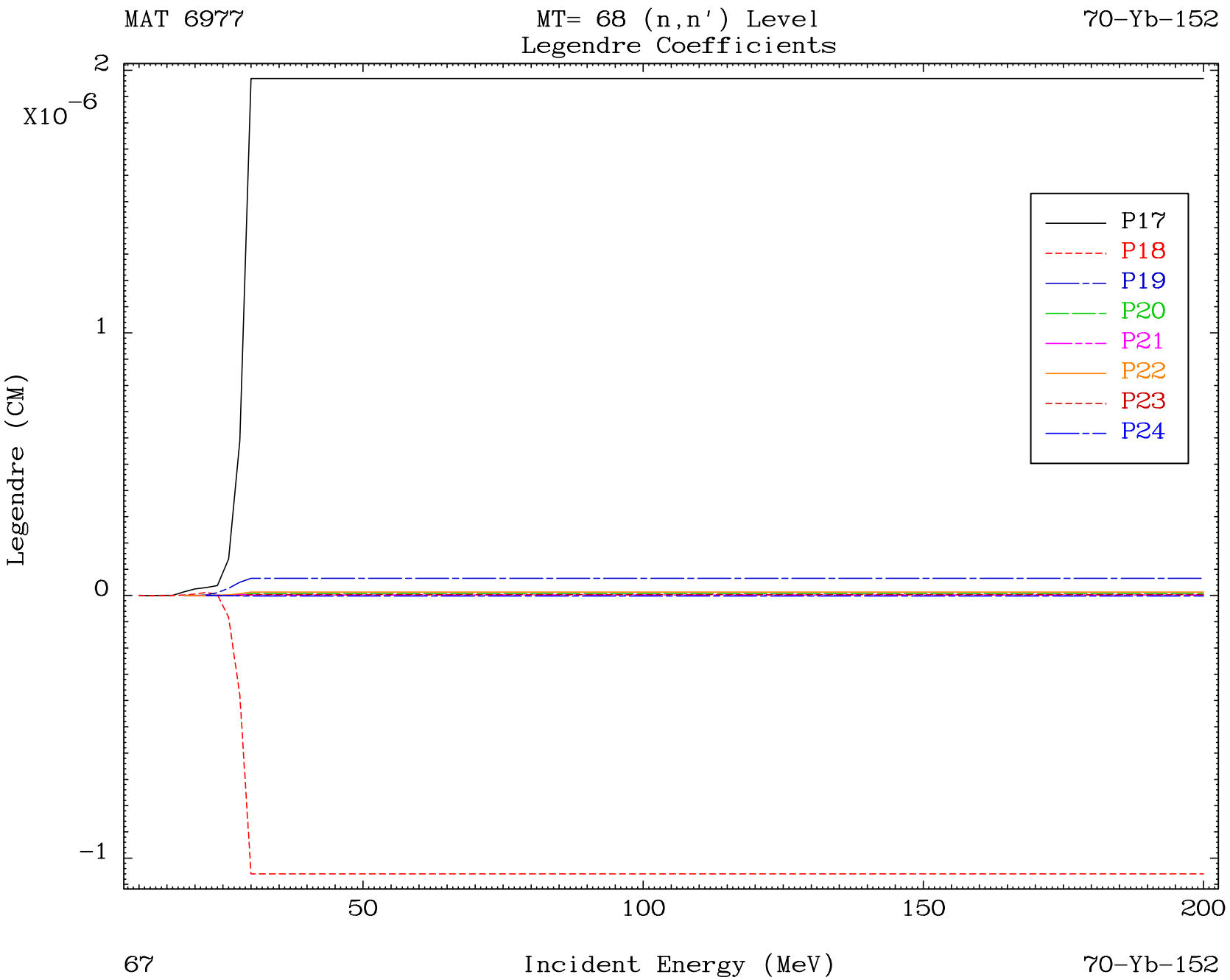

MAT 6977
MT= 66 (n,n') Level
Legendre Coefficients
70-Yb-152
X10^-7
6
4
2
0
Legendre (CM)
50
100
150
200
62
Incident Energy (MeV)
70-Yb-152
P19
P20
P21
P22
P23
P24
P25
P26

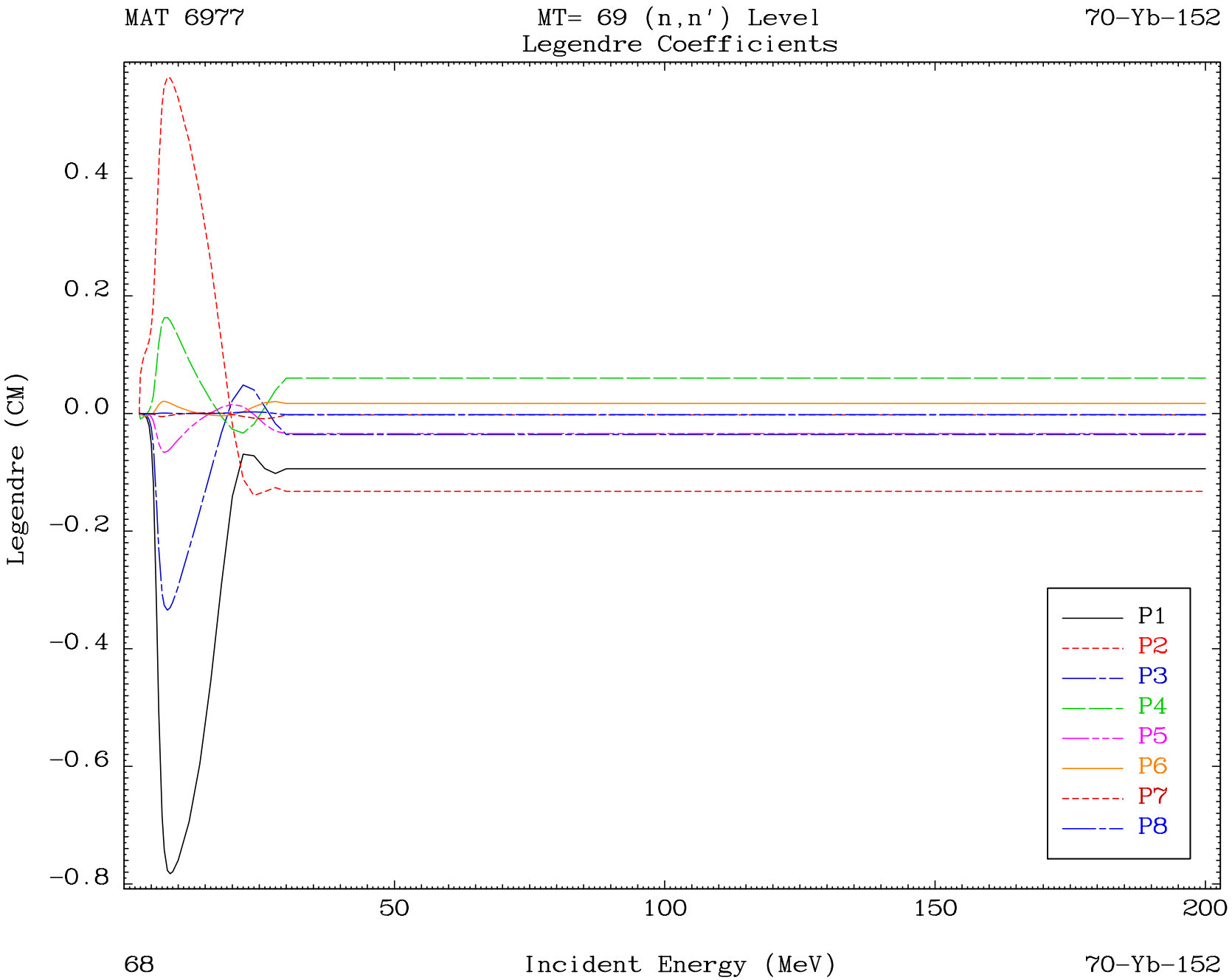

MAT 6977
MT= 67 (n,n') Level
Legendre Coefficients
70-Yb-152
0.4
0.0
-0.4
-0.8
Legendre (CM)
50
100
150
200
63
Incident Energy (MeV)
70-Yb-152
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11

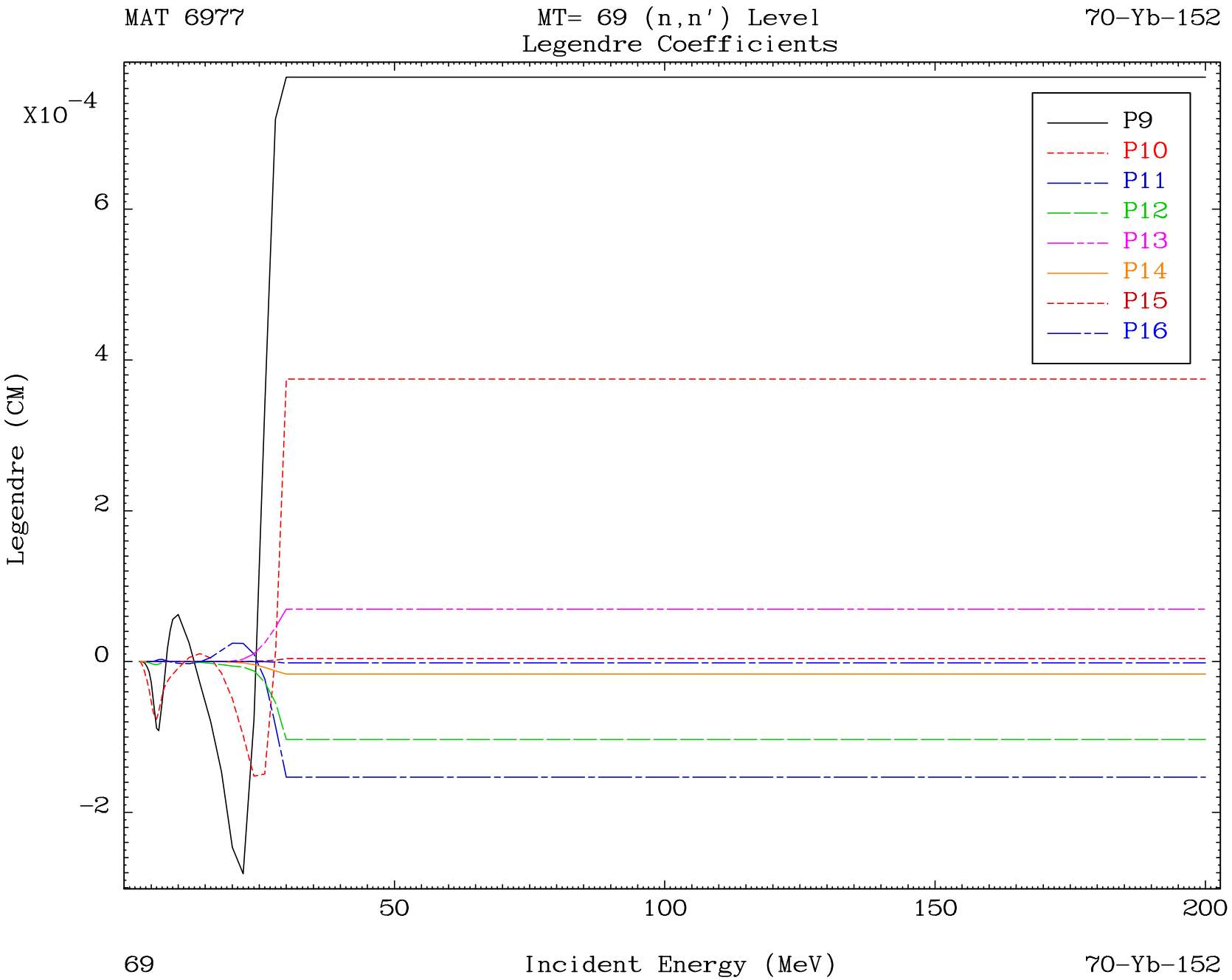

MAT 6977
MT= 67 (n,n') Level
Legendre Coefficients
70-Yb-152
X10 -5
2.0
1.5
1.0
0.5
0.0
-0.5
Legendre (CM)
P12
P13
P14
P15
P16
P17
P18
P19
P20
P21
P22
50
100
150
200
64
Incident Energy (MeV)
70-Yb-152

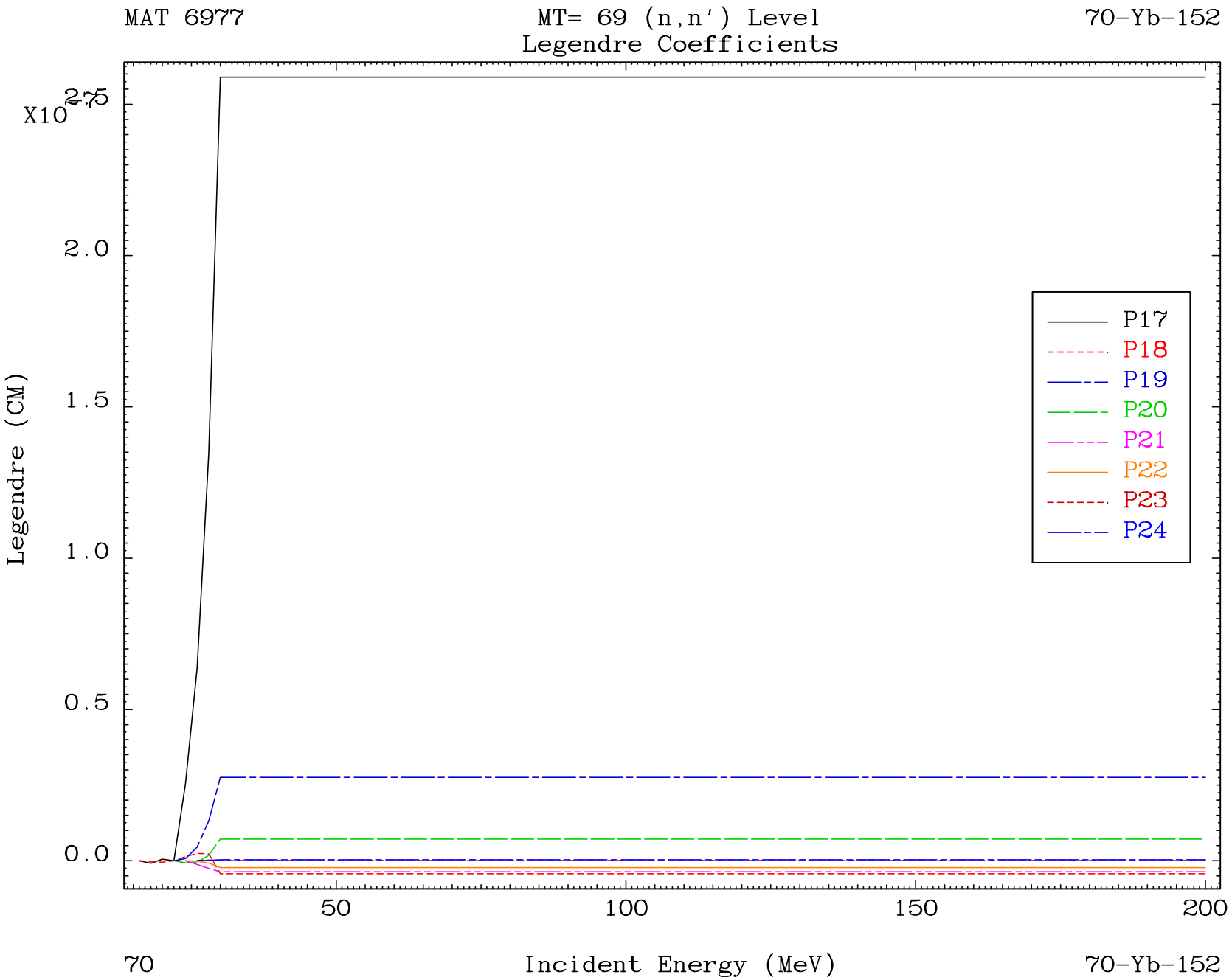

MAT 6977
MT= 68 (n,n') Level
Legendre Coefficients
70-Yb-152
P1
P2
P3
P4
P5
P6
P7
P8
0.2
0.0
-0.2
-0.4
Legendre (CM)
50
100
150
200
65
Incident Energy (MeV)
70-Yb-152

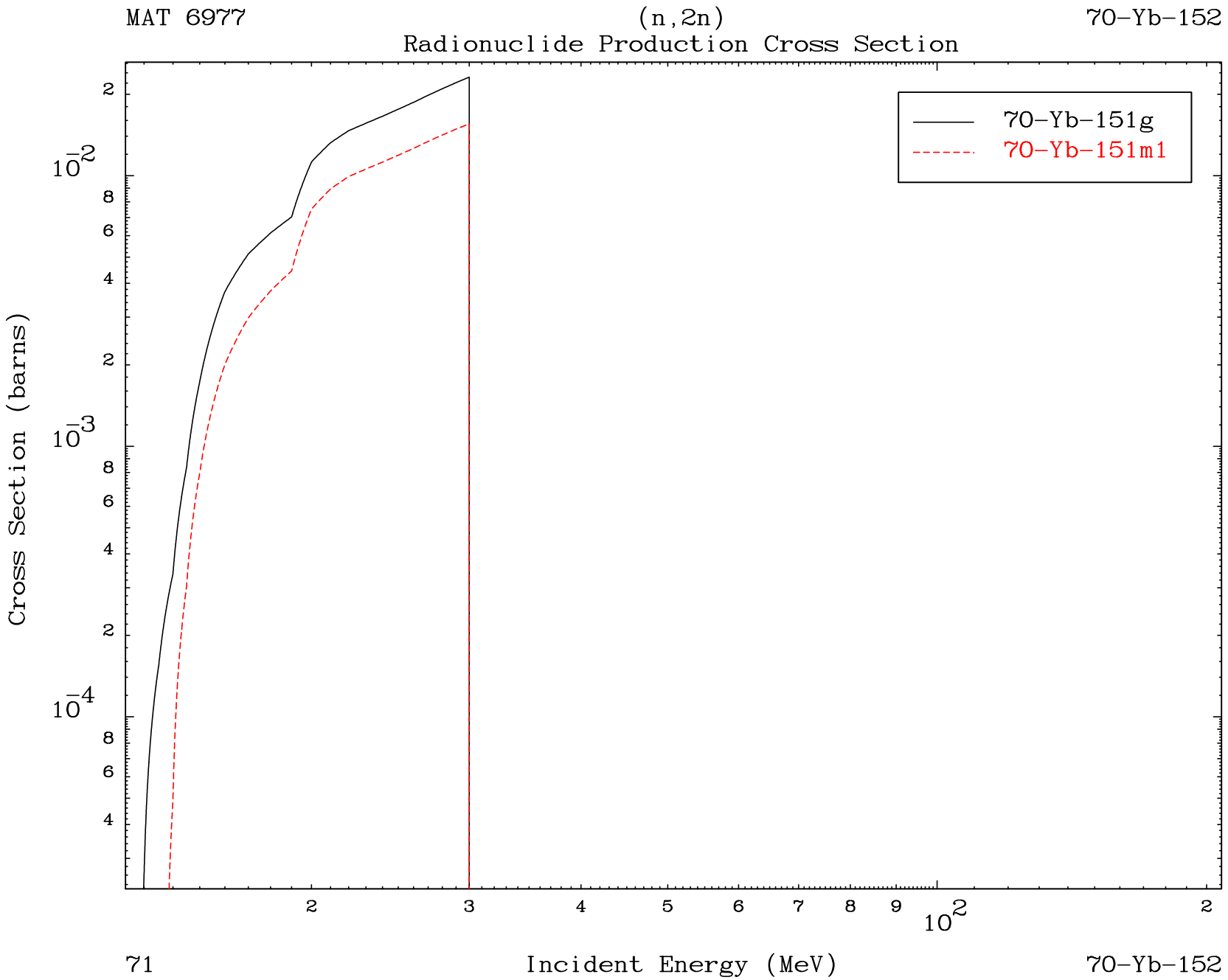

MAT 6977
MT= 68 (n,n') Level
Legendre Coefficients
70-Yb-152
0.000
0.000
0.000
-0.002
-0.003
-0.004
-0.005
Legendre (CM)
50
100
150
200
P9
P10
P11
P12
P13
P14
P15
P16
66
Incident Energy (MeV)
70-Yb-152

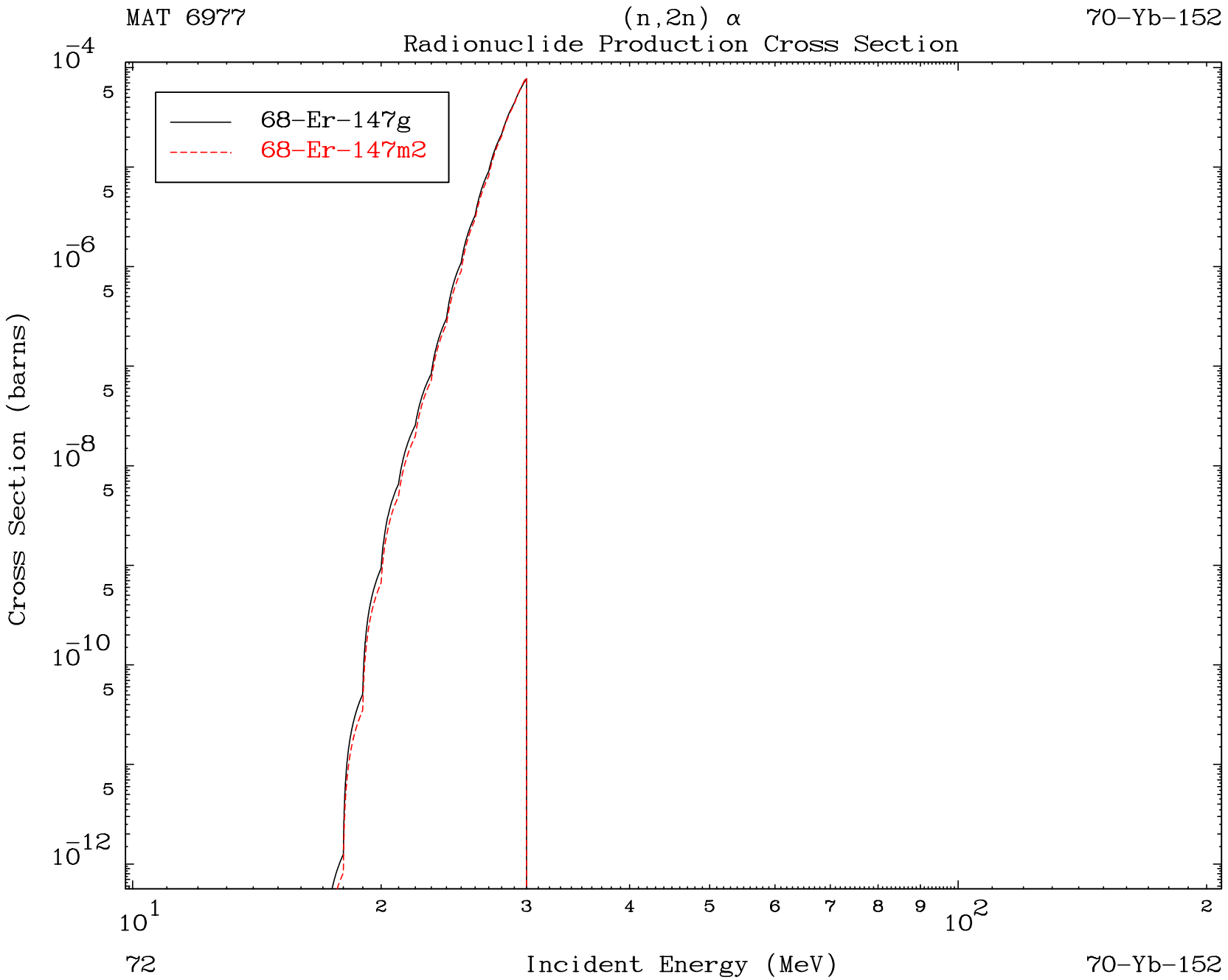

MAT 6977
MT= 68 (n,n') Level
Legendre Coefficients
70-Yb-152
X10^-6
2
1
0
-1
Legendre (CM)
P17
P18
P19
P20
P21
P22
P23
P24
50
100
150
200
67
Incident Energy (MeV)
70-Yb-152

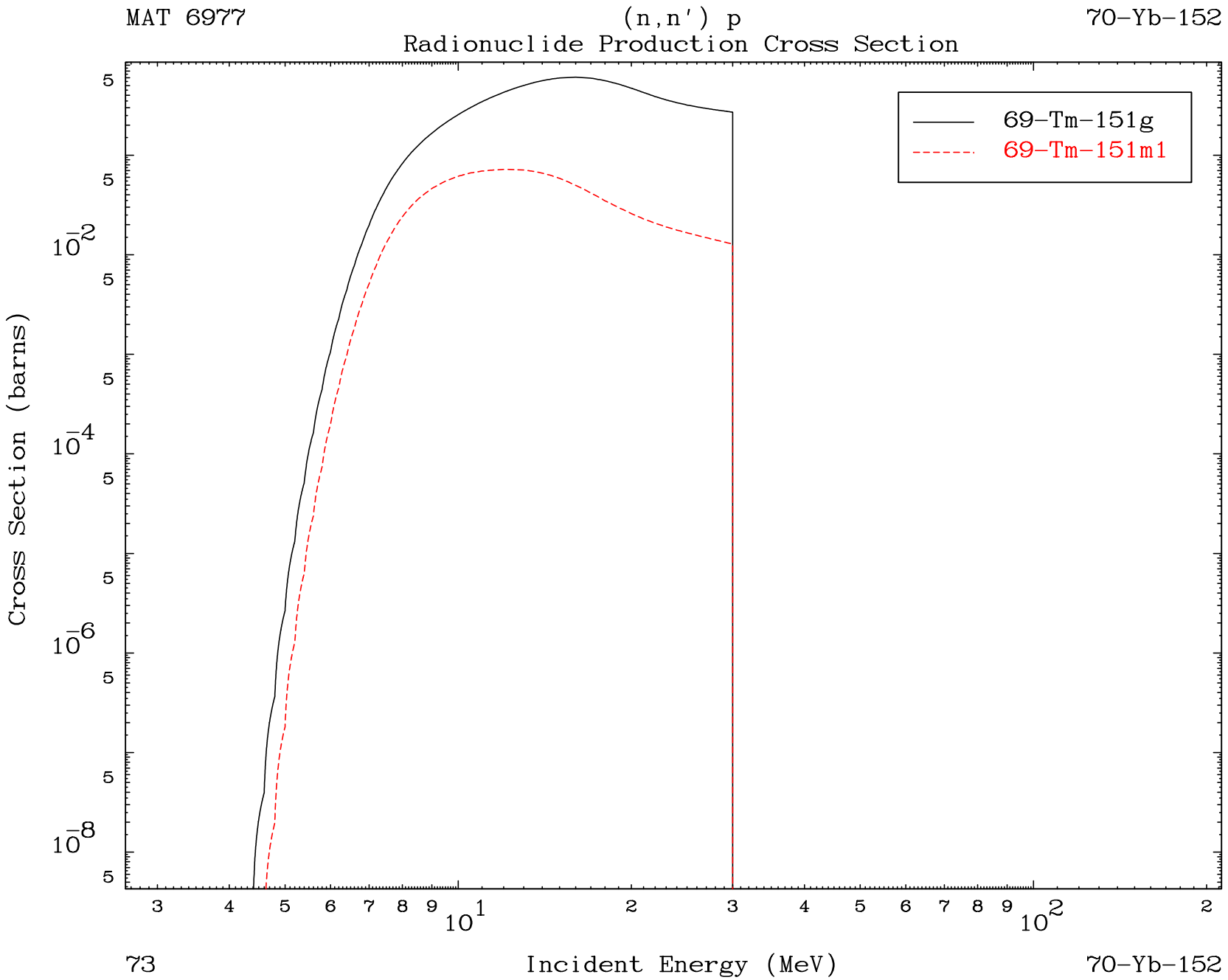

MAT 6977
MT= 69 (n,n') Level
Legendre Coefficients
70-Yb-152
Legendre (CM)
0.4
0.2
0.0
-0.2
-0.4
-0.6
-0.8
50
100
150
200
68
Incident Energy (MeV)
70-Yb-152
P1
P2
P3
P4
P5
P6
P7
P8

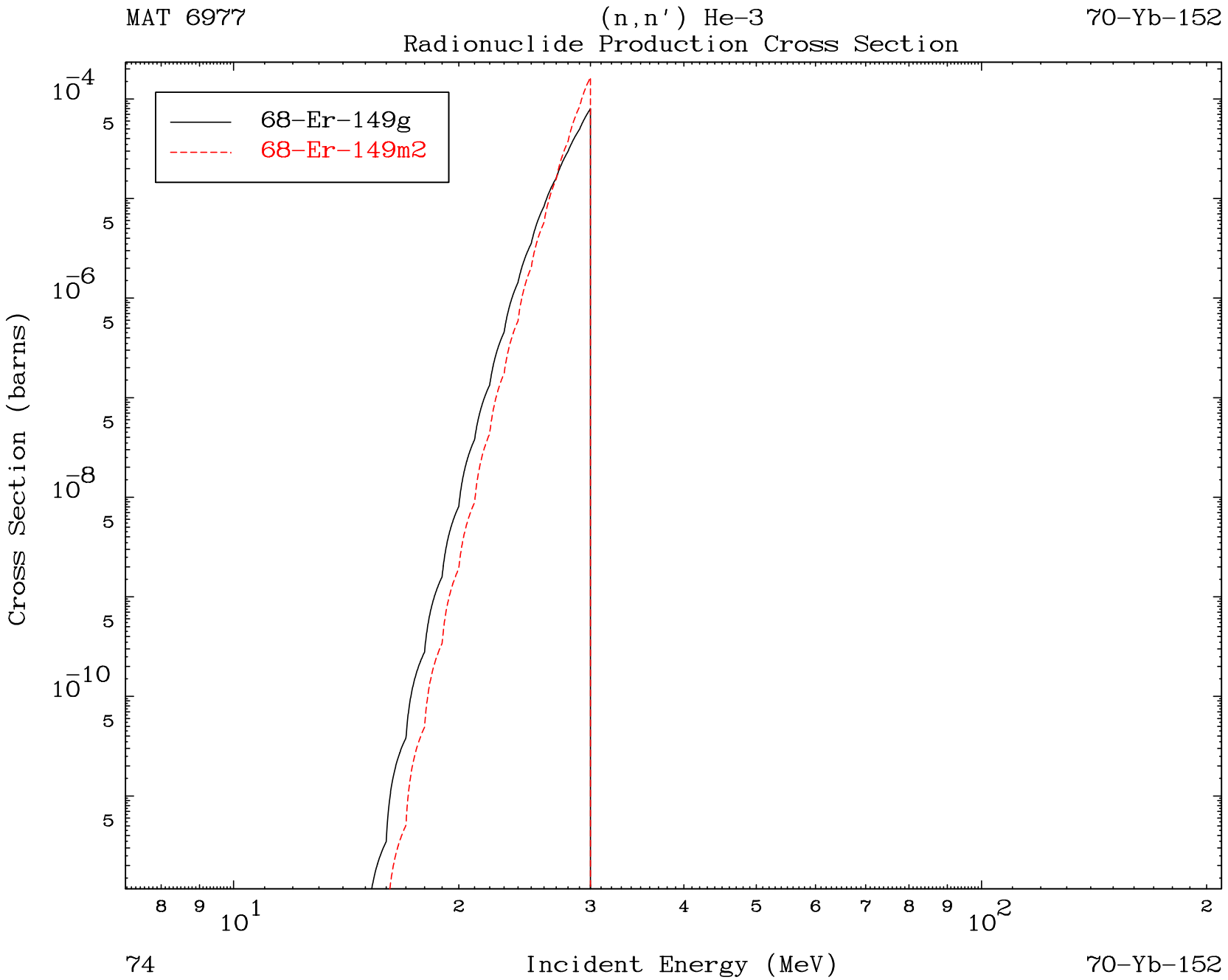

MAT 6977
MT= 69 (n,n') Level
Legendre Coefficients
70-Yb-152
X10^-4
6
4
2
0
-2
Legendre (CM)
P9
P10
P11
P12
P13
P14
P15
P16
50
100
150
200
69
Incident Energy (MeV)
70-Yb-152

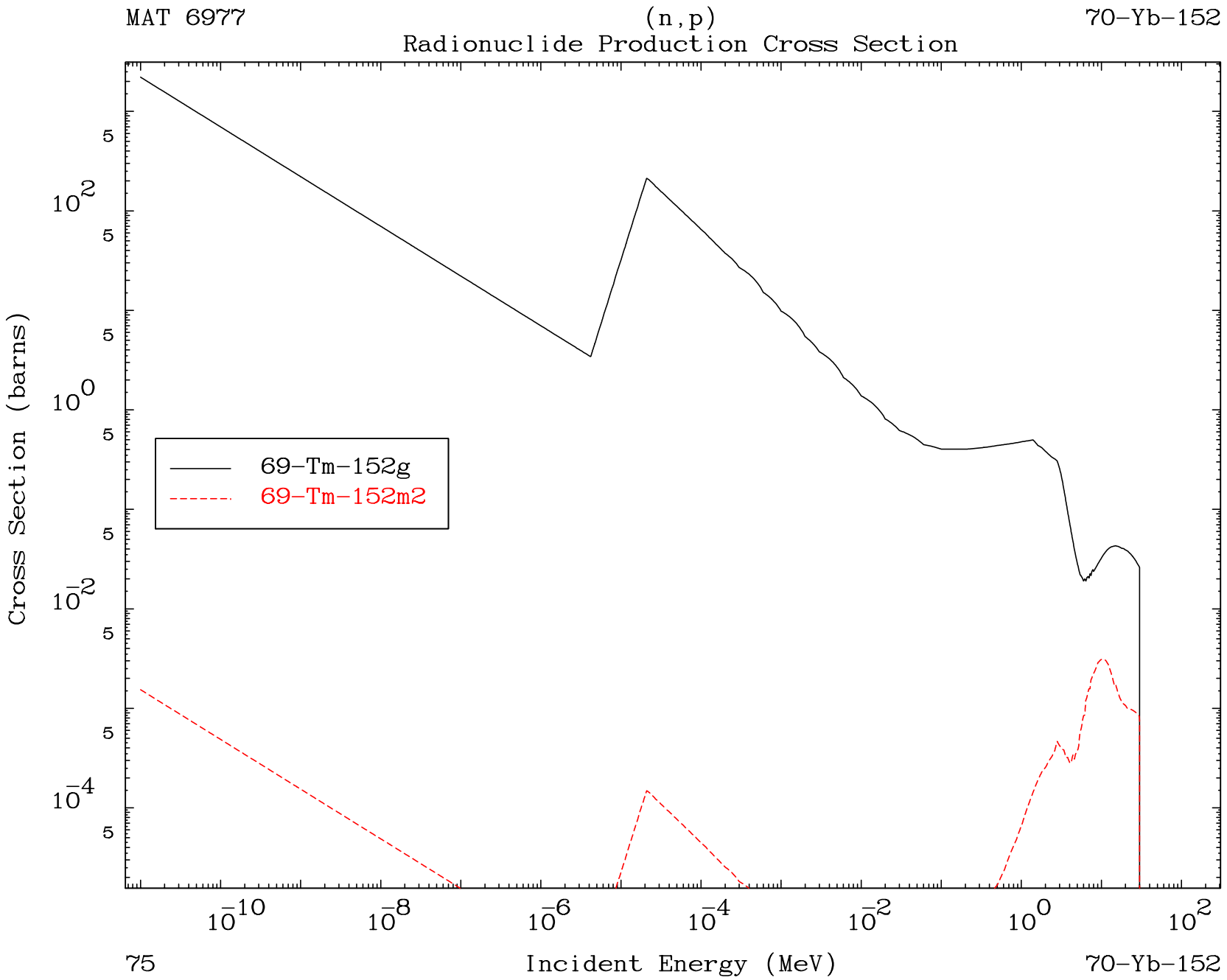

MAT 6977
MT= 69 (n,n') Level
Legendre Coefficients
70-Yb-152
X10-2
2.5
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
50
100
150
200
70
Incident Energy (MeV)
70-Yb-152
P17
P18
P19
P20
P21
P22
P23
P24

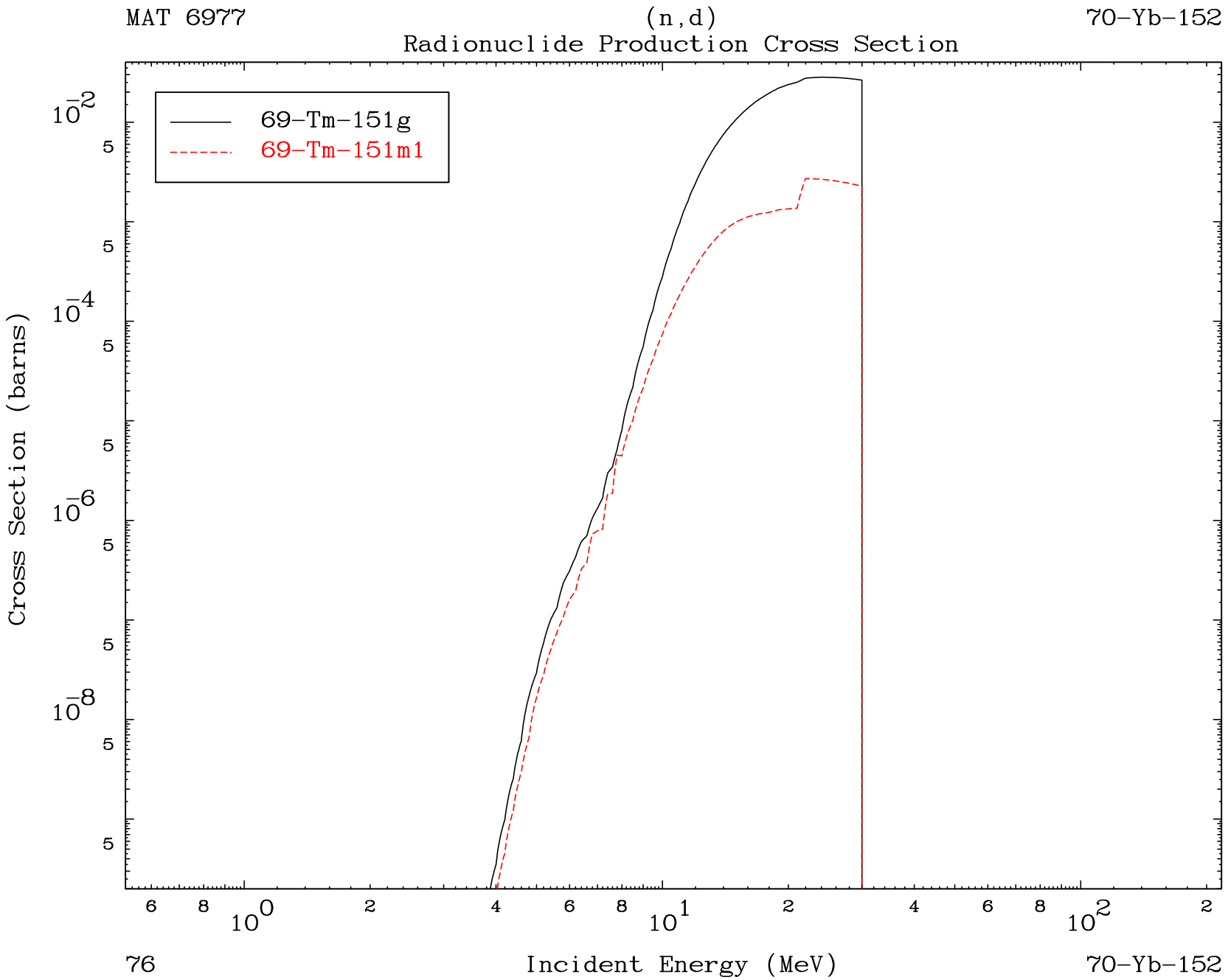

MAT 6977
(n,2n)
70-Yb-152
Radionuclide Production Cross Section
70-Yb-151g
70-Yb-151m1
Cross Section (barns)
Incident Energy (MeV)
71
70-Yb-152

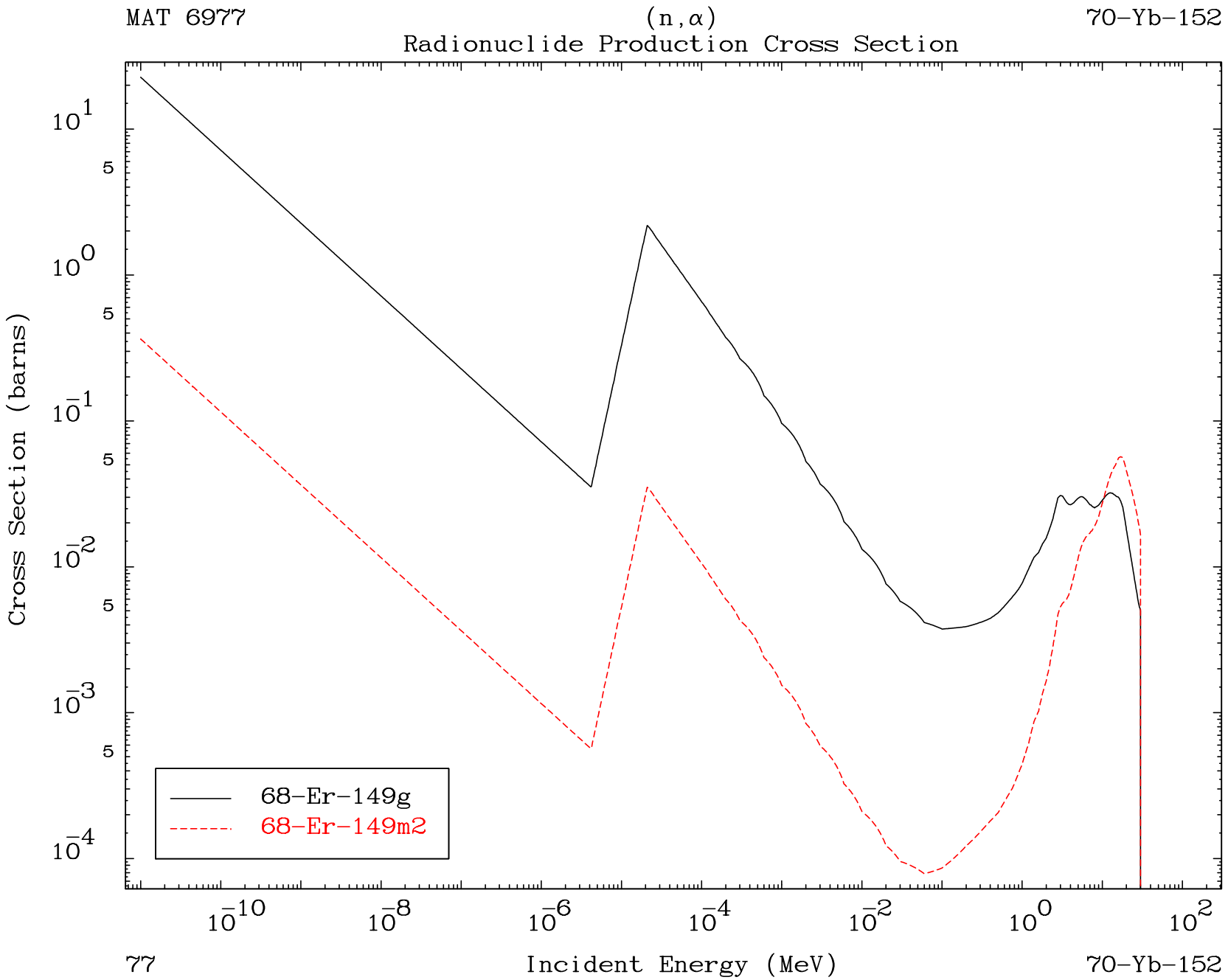

MAT 6977
(n,2n) α
70-Yb-152
Radionuclide Production Cross Section
68-Er-147g
68-Er-147m2
Cross Section (barns)
Incident Energy (MeV)
72
70-Yb-152

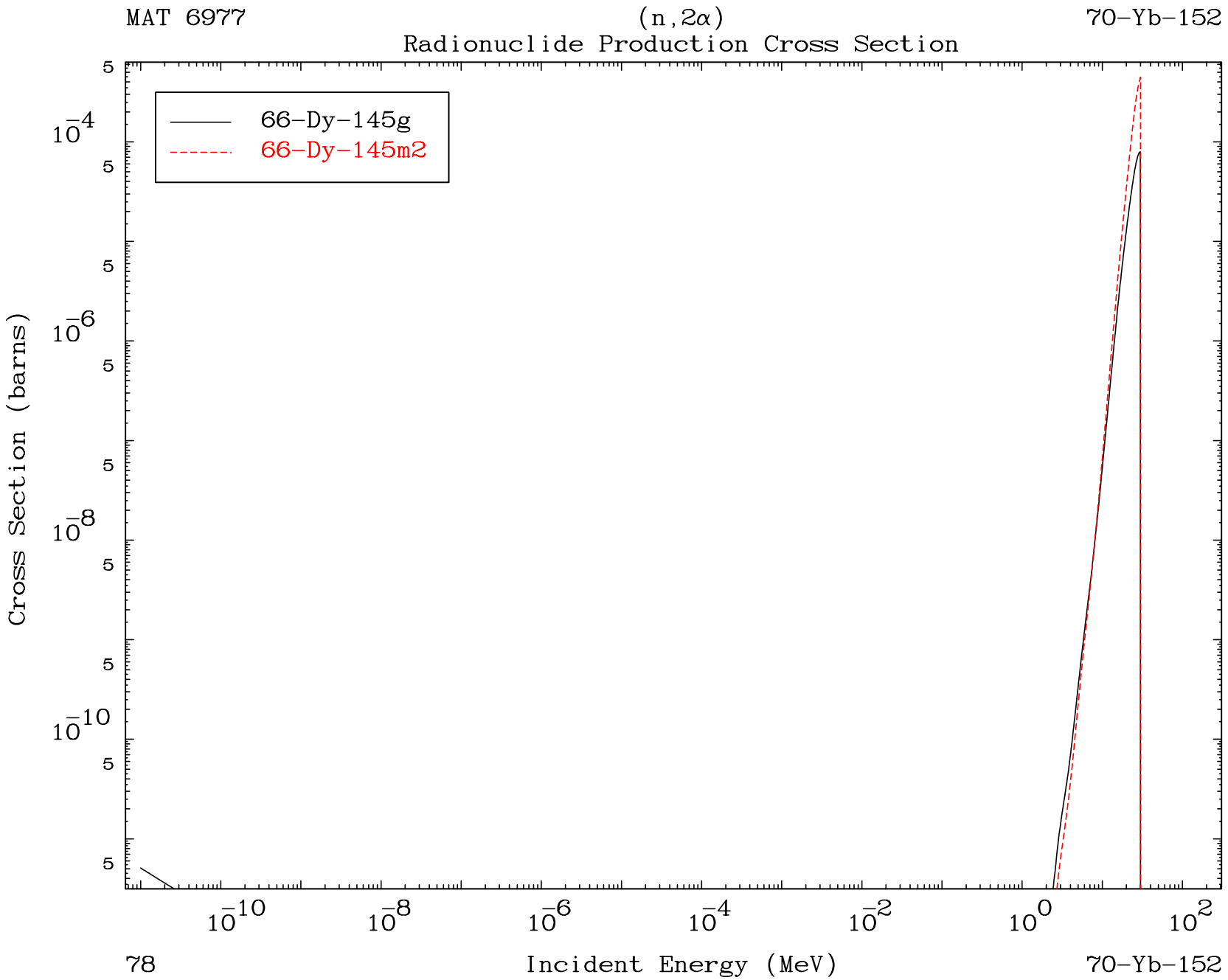

MAT 6977
(n,n') p
70-Yb-152
Radionuclide Production Cross Section
69-Tm-151g
69-Tm-151m1
Cross Section (barns)
Incident Energy (MeV)
73
70-Yb-152

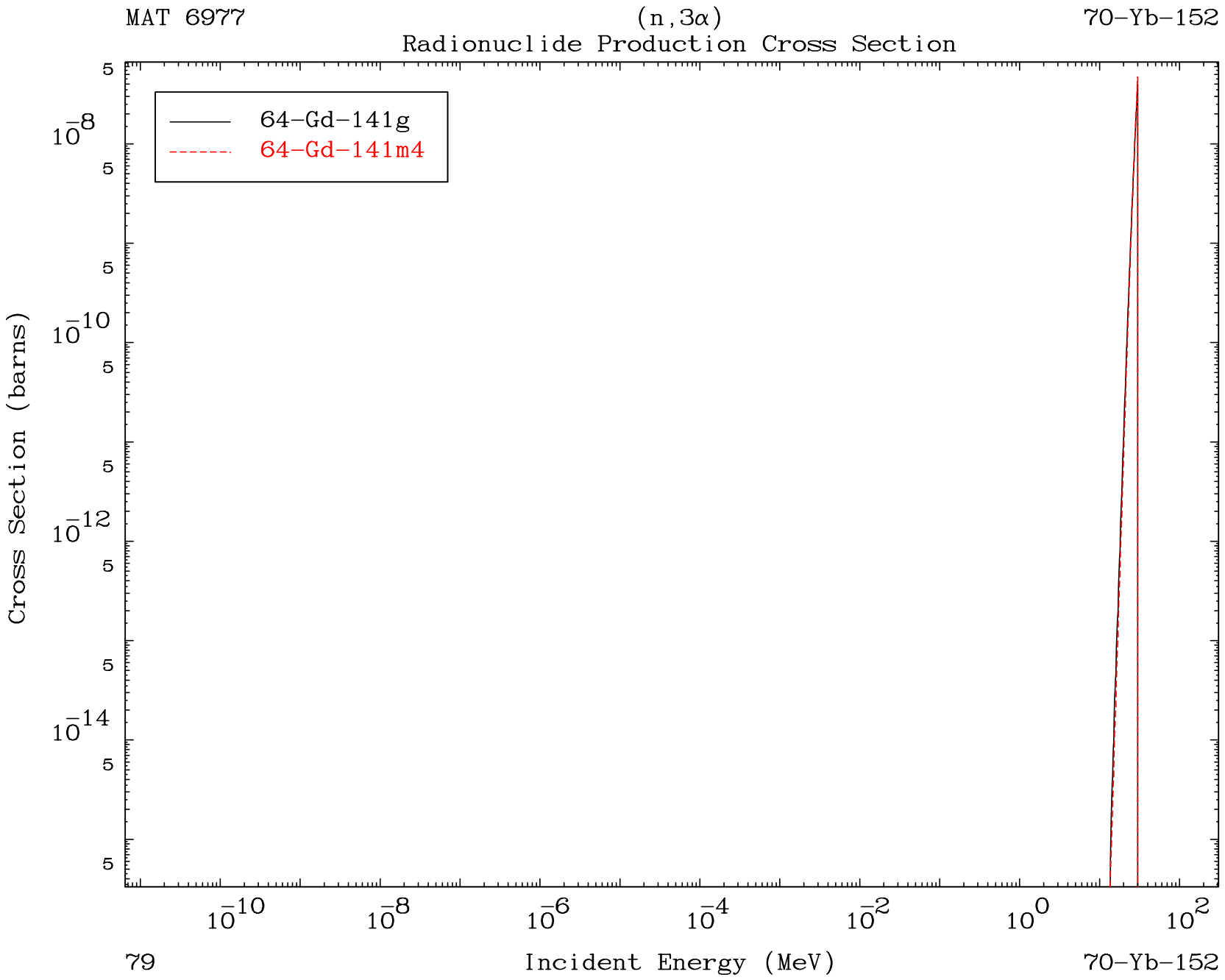

MAT 6977
(n,n') He-3
70-Yb-152
Radionuclide Production Cross Section
68-Er-149g
68-Er-149m2
Cross Section (barns)
Incident Energy (MeV)
74
70-Yb-152

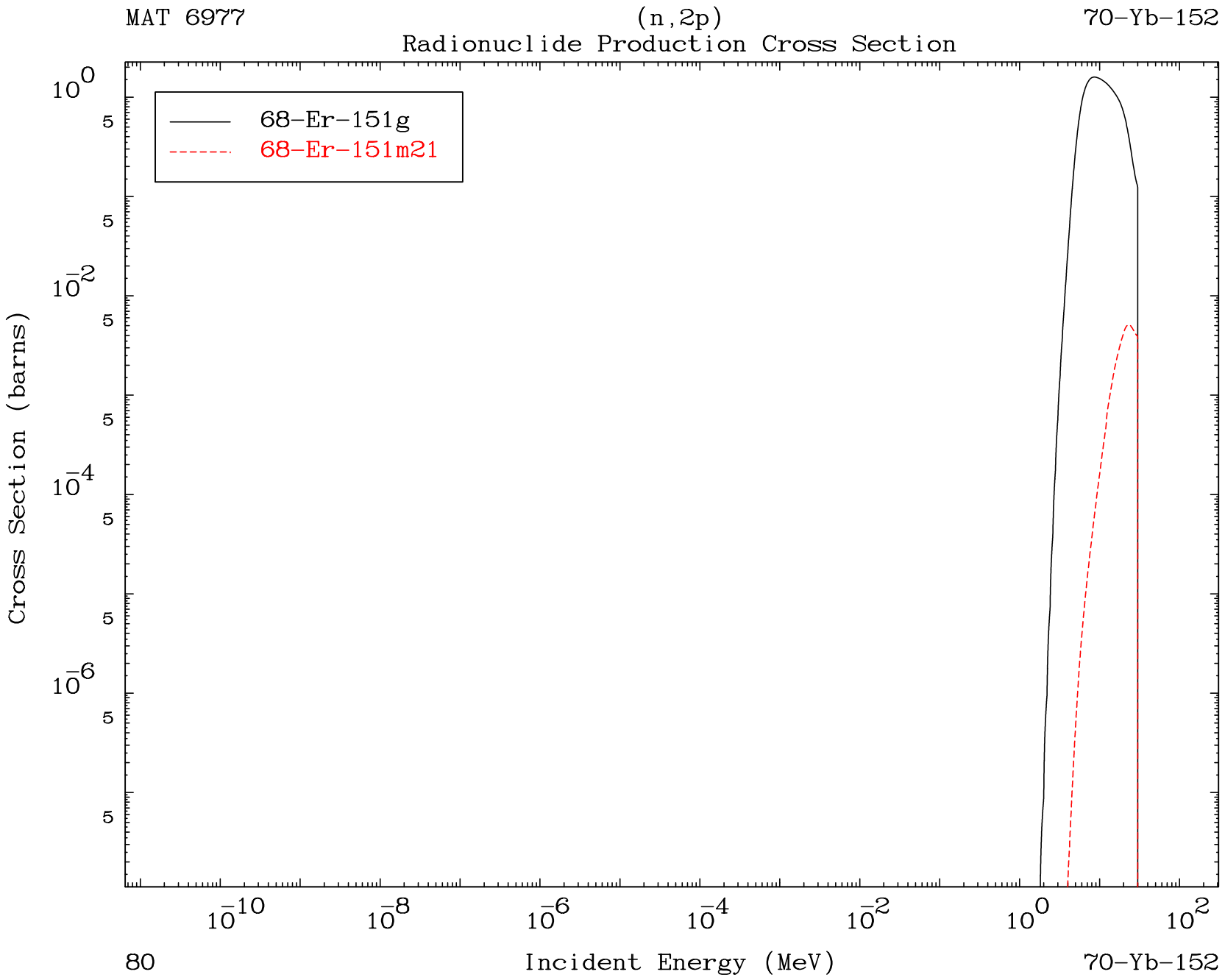

MAT 6977
(n,p)
70-Yb-152
Radionuclide Production Cross Section
Cross Section (barns)
69-Tm-152g
69-Tm-152m2
Incident Energy (MeV)
75
70-Yb-152

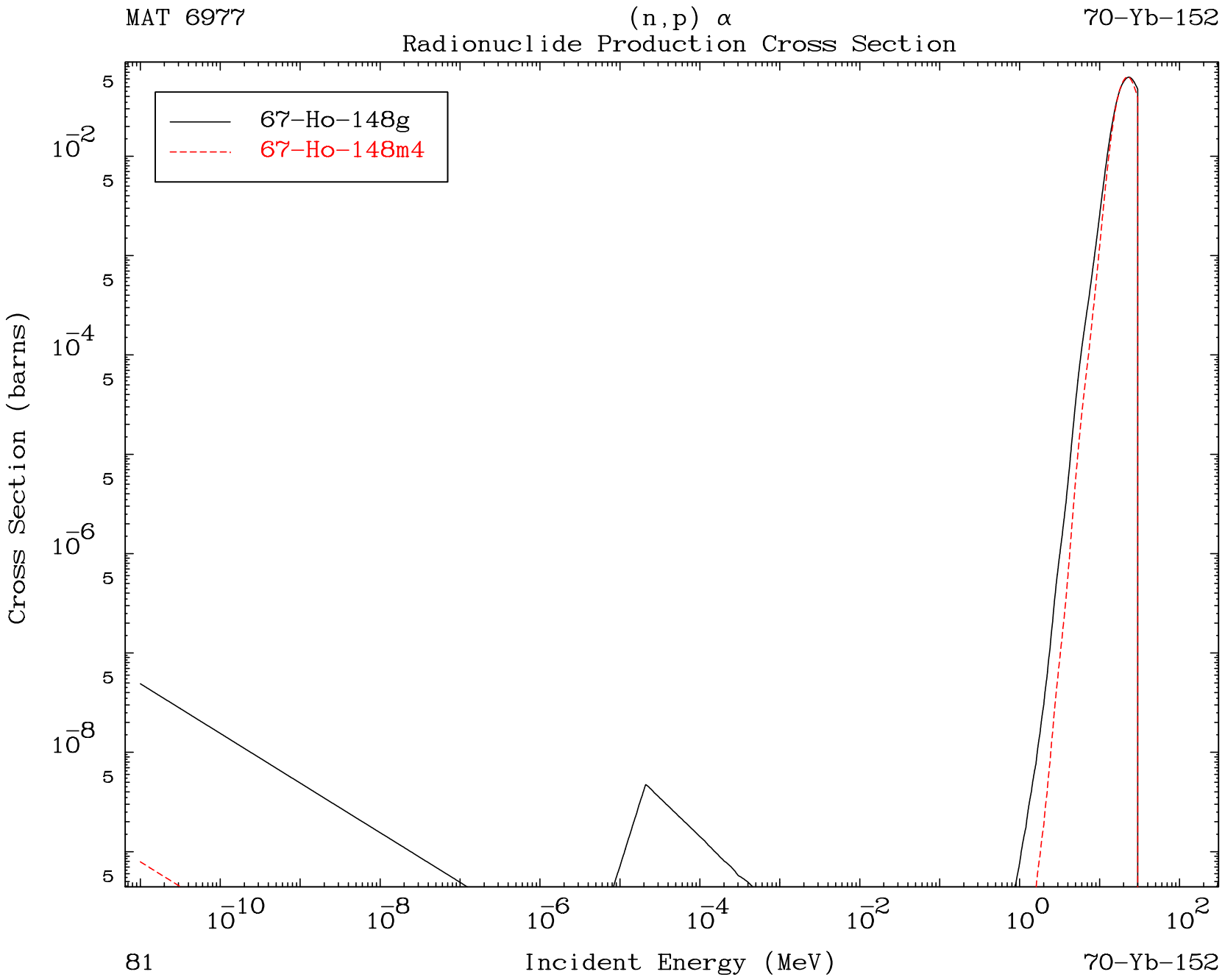

MAT 6977
(n,d)
70-Yb-152
Radionuclide Production Cross Section
69-Tm-151g
69-Tm-151m1
Cross Section (barns)
Incident Energy (MeV)
76
70-Yb-152

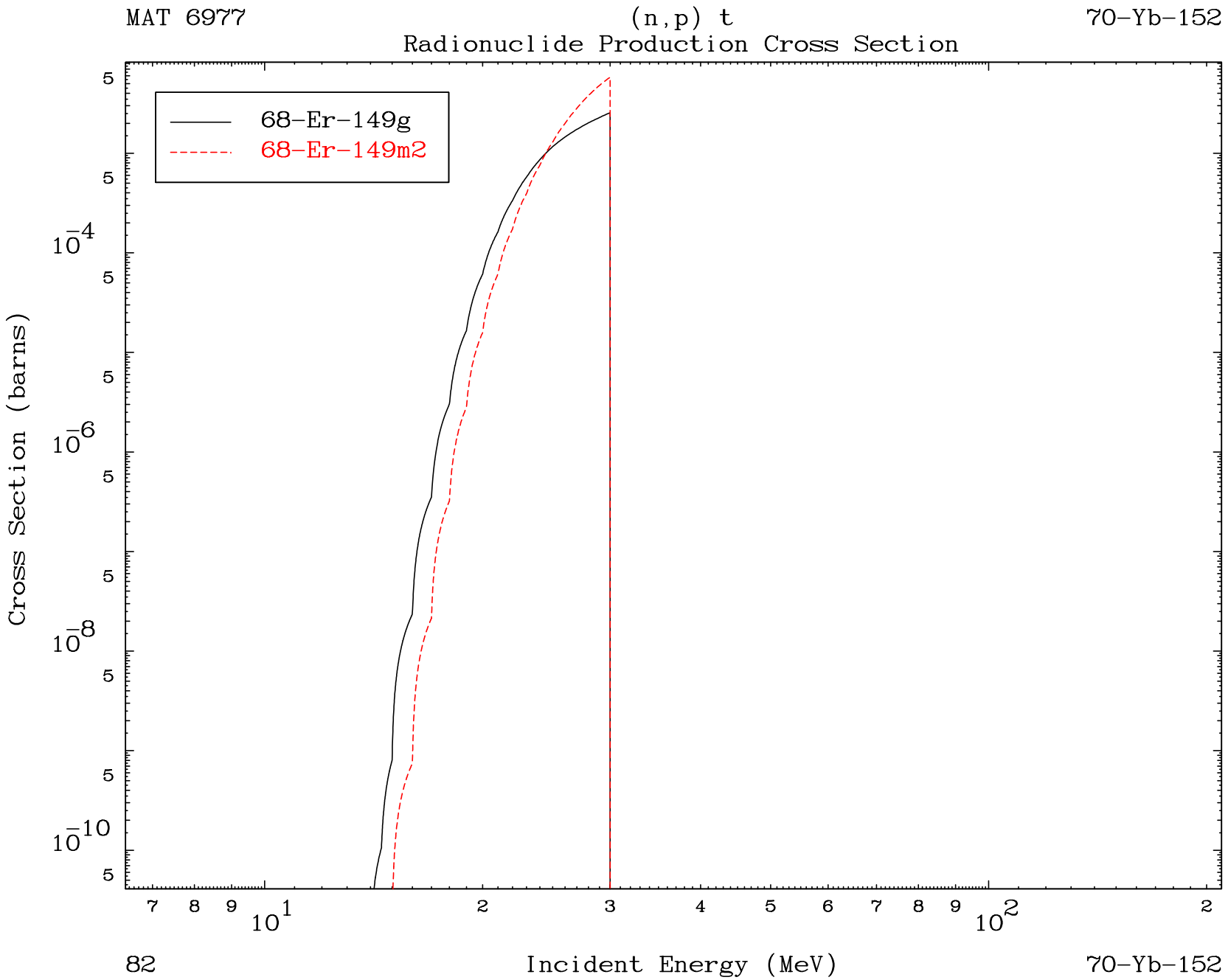

MAT 6977
(n,α)
70-Yb-152
Radionuclide Production Cross Section
Cross Section (barns)
10^1
5
10^0
5
10^-1
5
10^-2
5
10^-3
5
10^-4
68-Er-149g
68-Er-149m2
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
77
Incident Energy (MeV)
70-Yb-152


MAT 6977
(n,2α)
70-Yb-152
Radionuclide Production Cross Section
66-Dy-145g
66-Dy-145m2
Cross Section (barns)
Incident Energy (MeV)
78
70-Yb-152


MAT 6977
(n,3α)
70-Yb-152
Radionuclide Production Cross Section
64-Gd-141g
64-Gd-141m4
Cross Section (barns)
Incident Energy (MeV)
79
70-Yb-152


MAT 6977
(n,2p)
70-Yb-152
Radionuclide Production Cross Section
68-Er-151g
68-Er-151m21
Cross Section (barns)
Incident Energy (MeV)
80
70-Yb-152


MAT 6977
(n,p) α
70-Yb-152
Radionuclide Production Cross Section
67-Ho-148g
67-Ho-148m4
Cross Section (barns)
Incident Energy (MeV)
81
70-Yb-152


MAT 6977
(n,p) t
70-Yb-152
Radionuclide Production Cross Section
68-Er-149g
68-Er-149m2
Cross Section (barns)
Incident Energy (MeV)
82
70-Yb-152