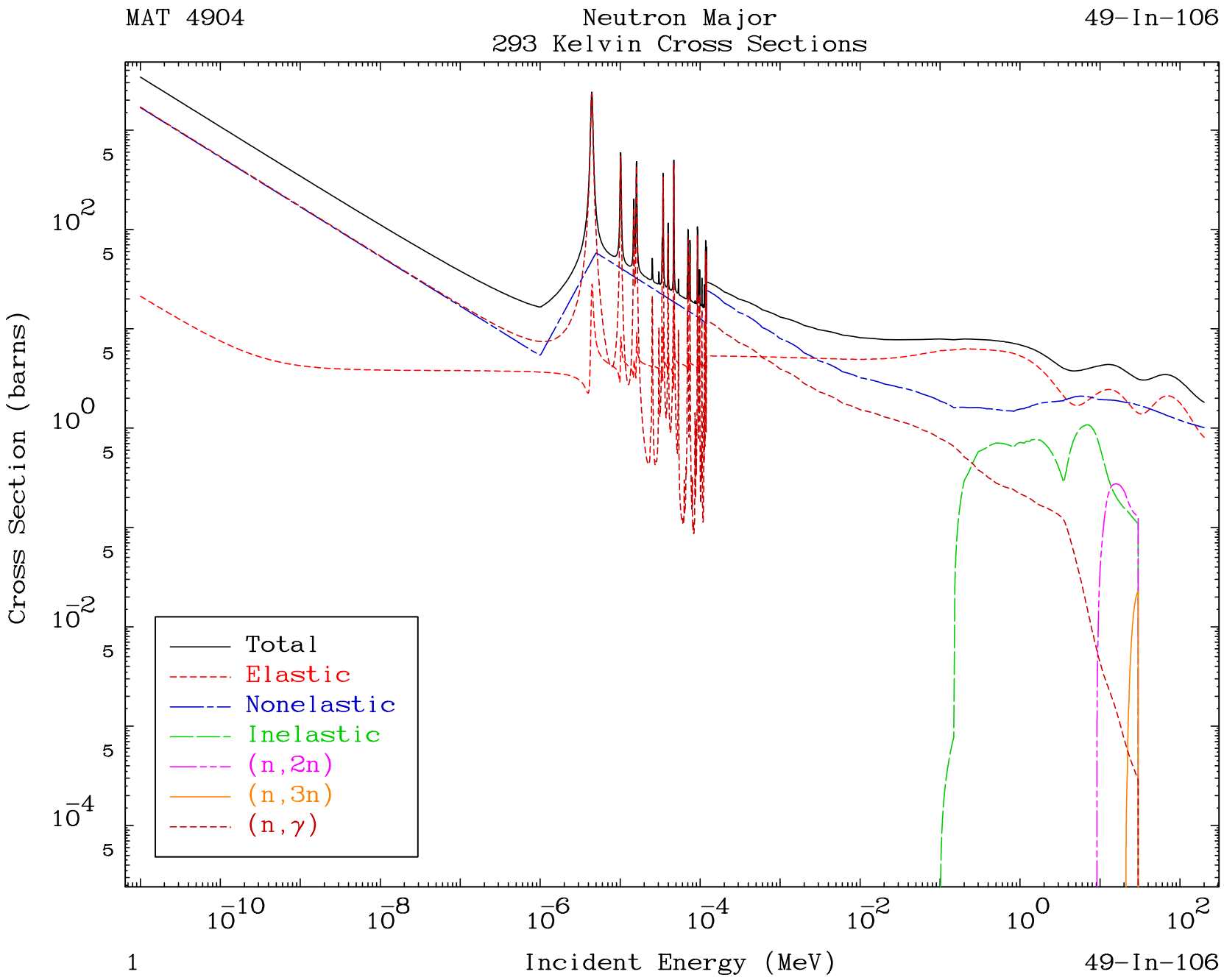
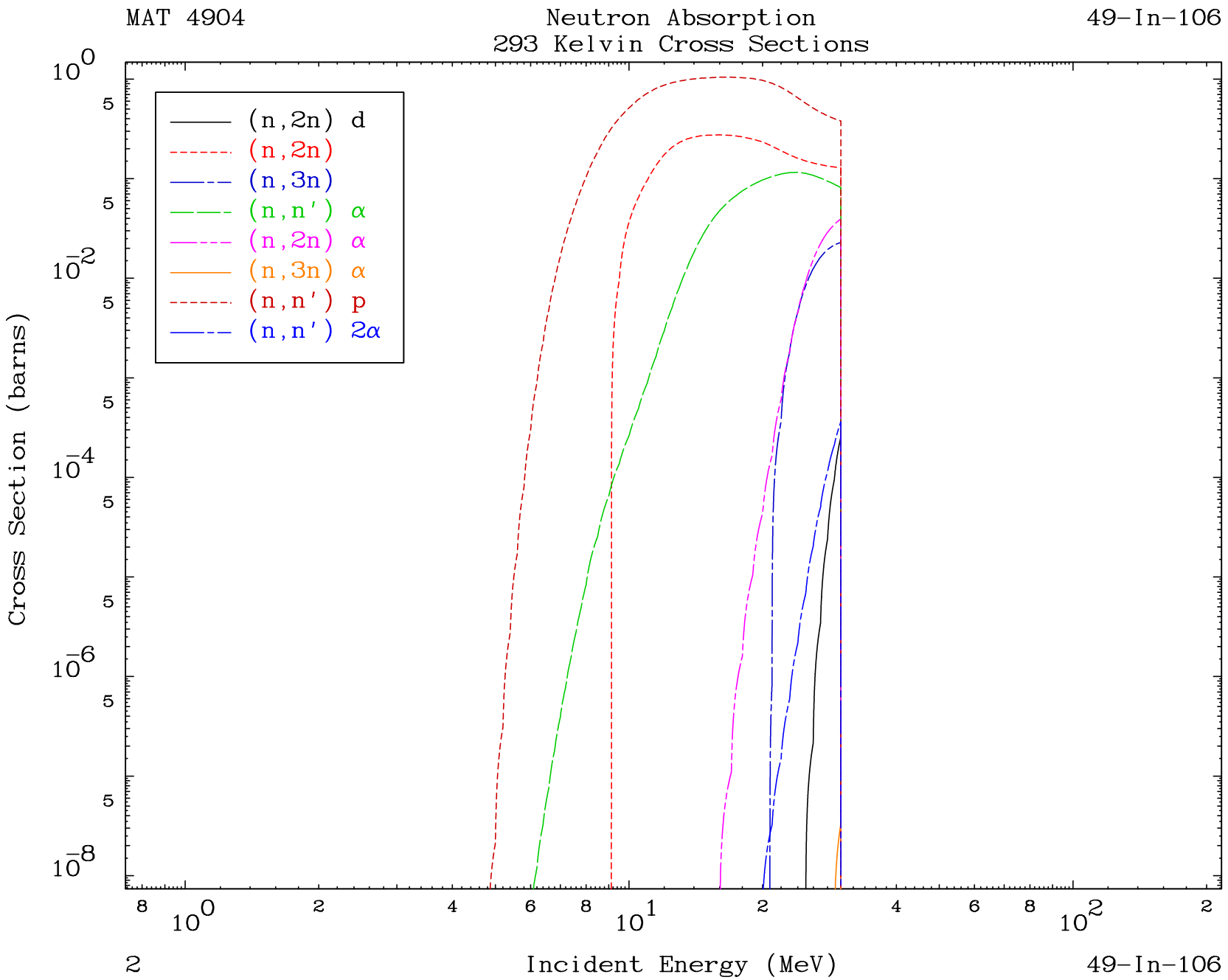
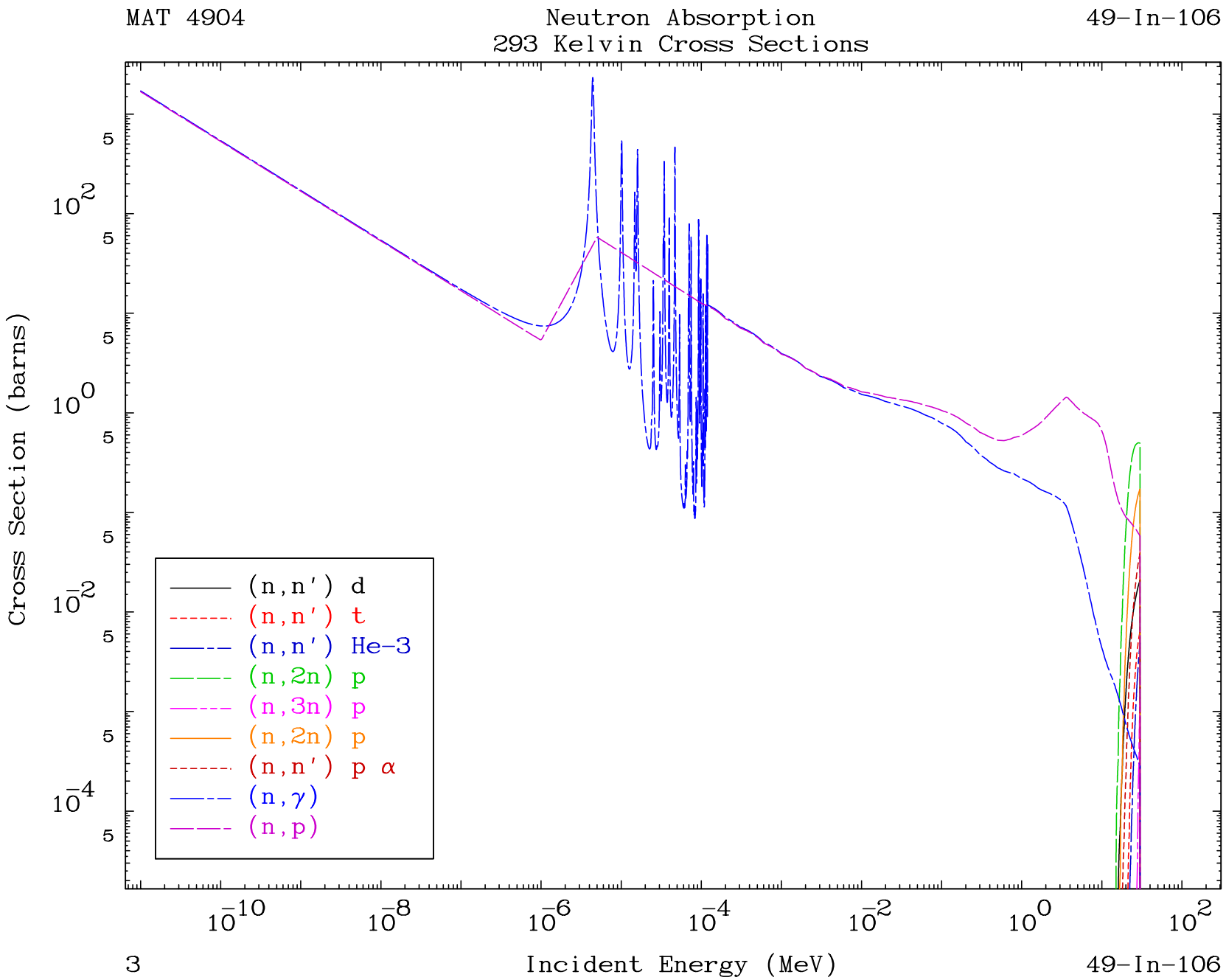
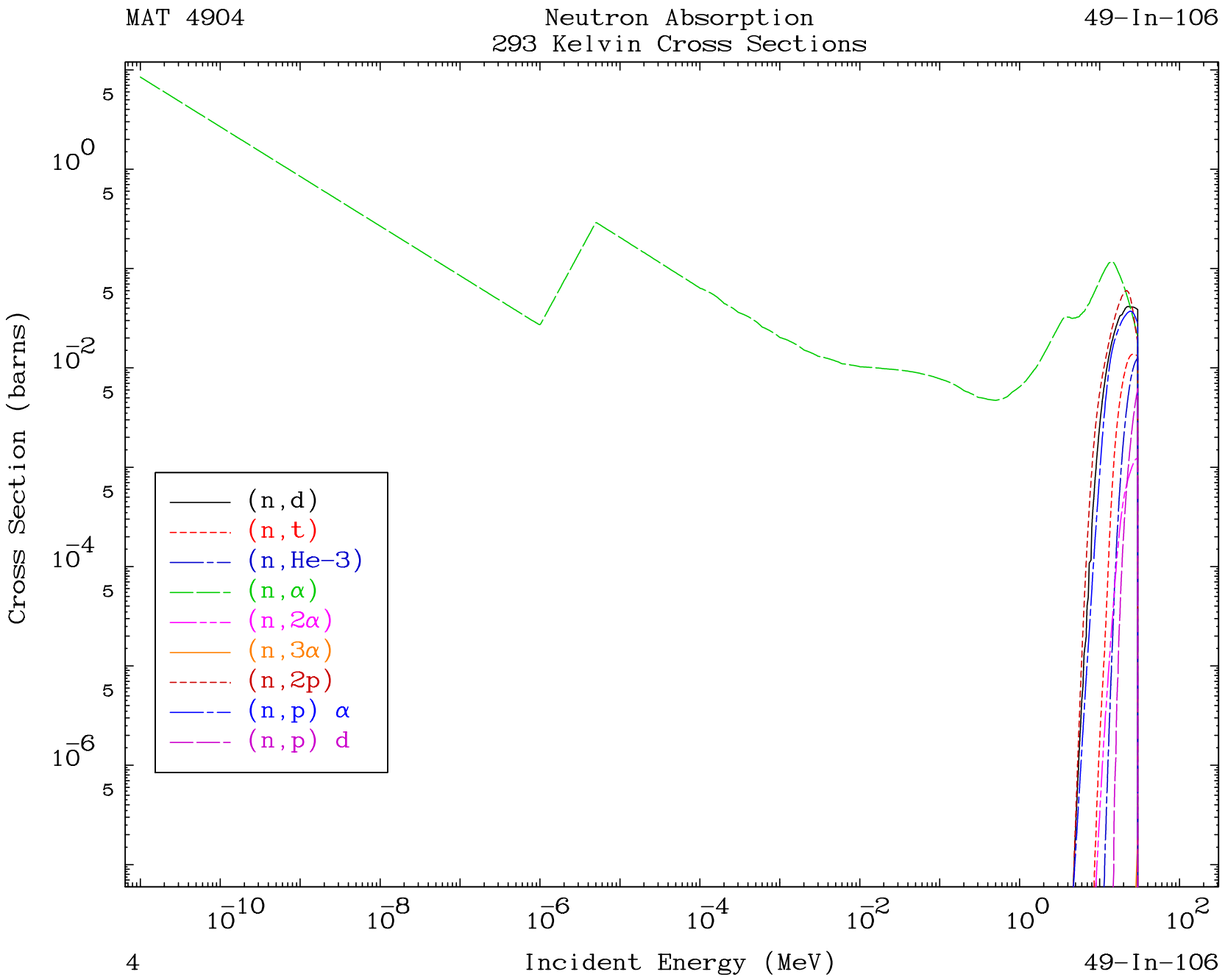
Program EVALPLOT
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

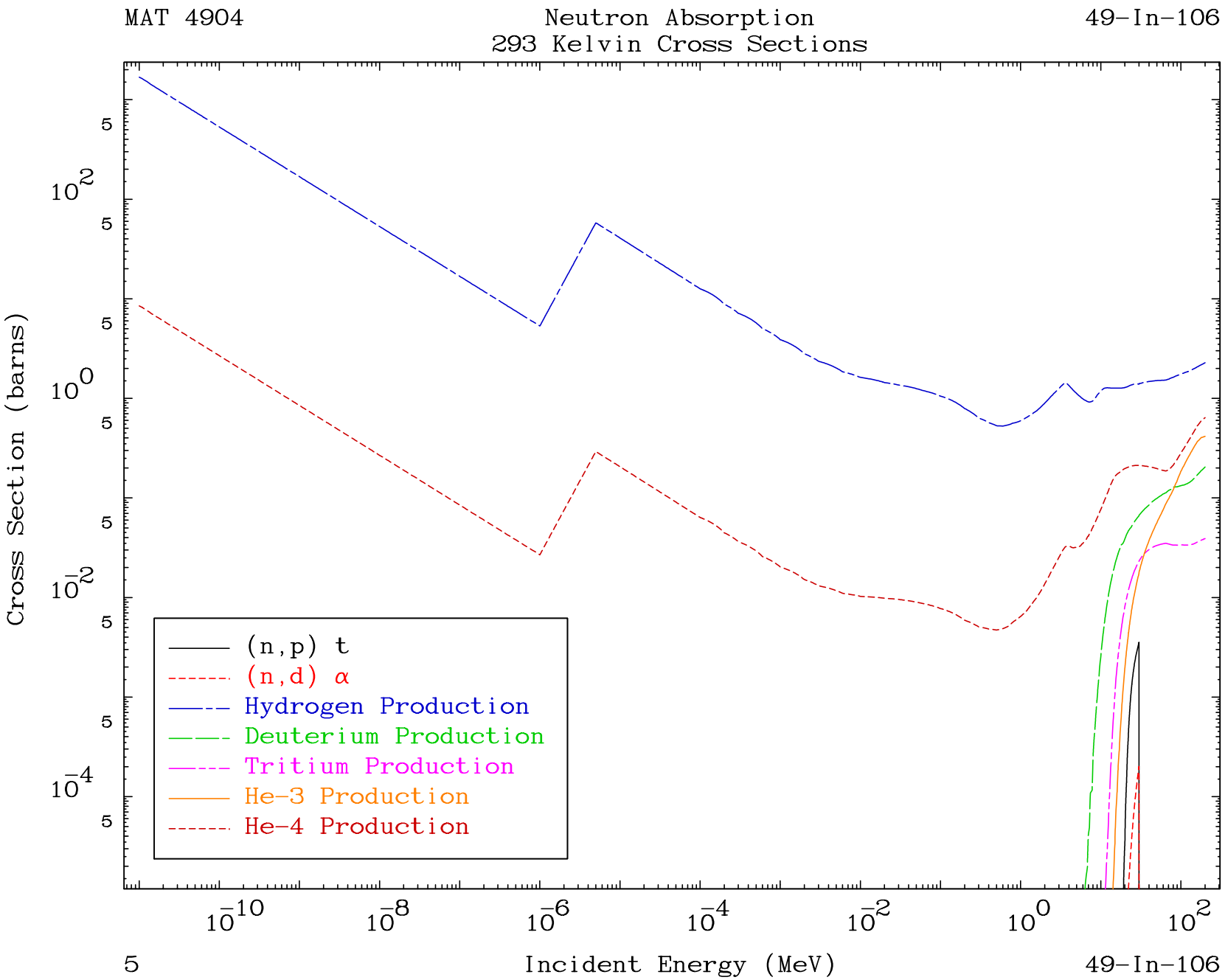
Press Mouse Button to Start

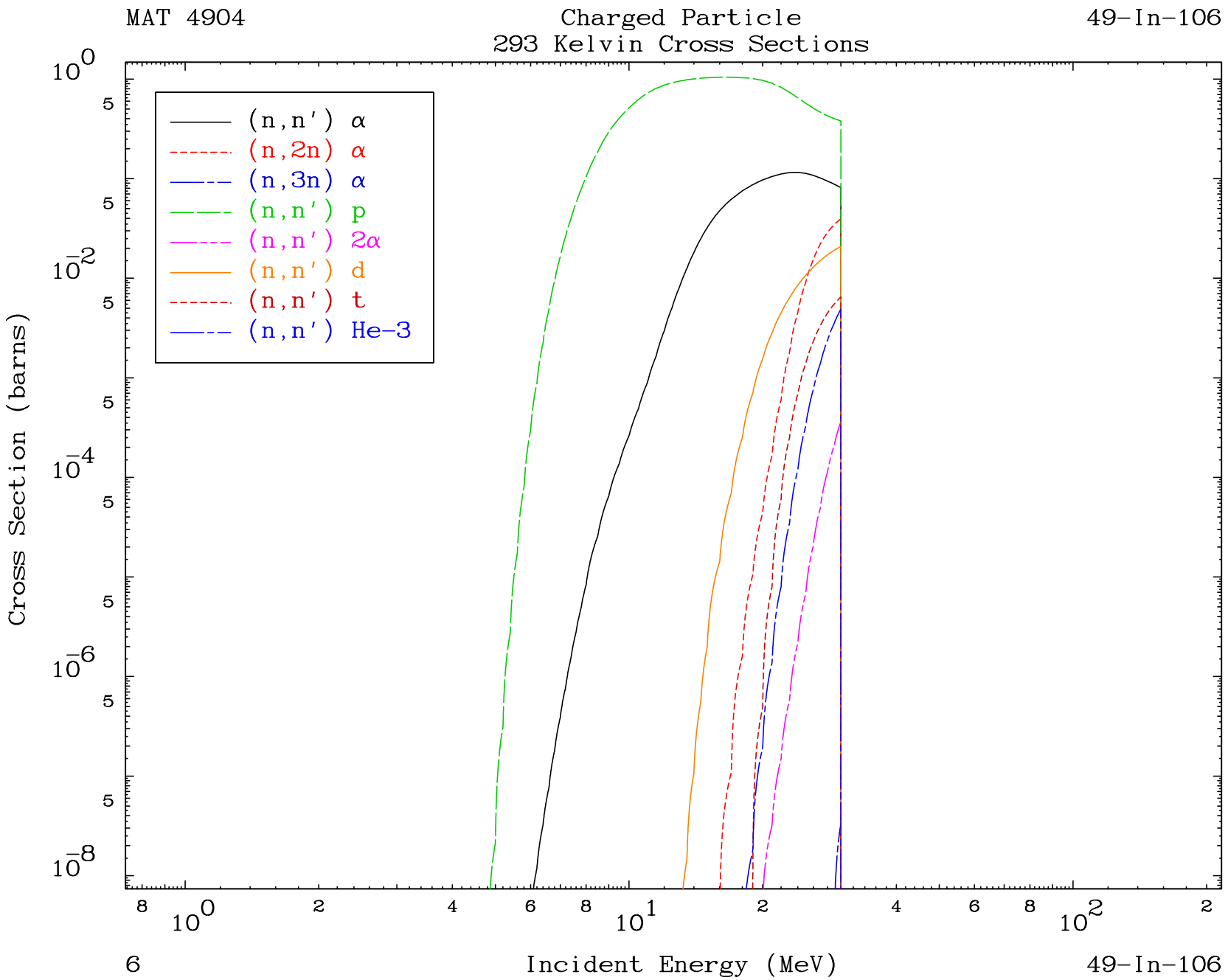

MAT 4904
Neutron Major
49-In-106
293 Kelvin Cross Sections
Cross Section (barns)
Incident Energy (MeV)
Total
Elastic
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)
1
49-In-106

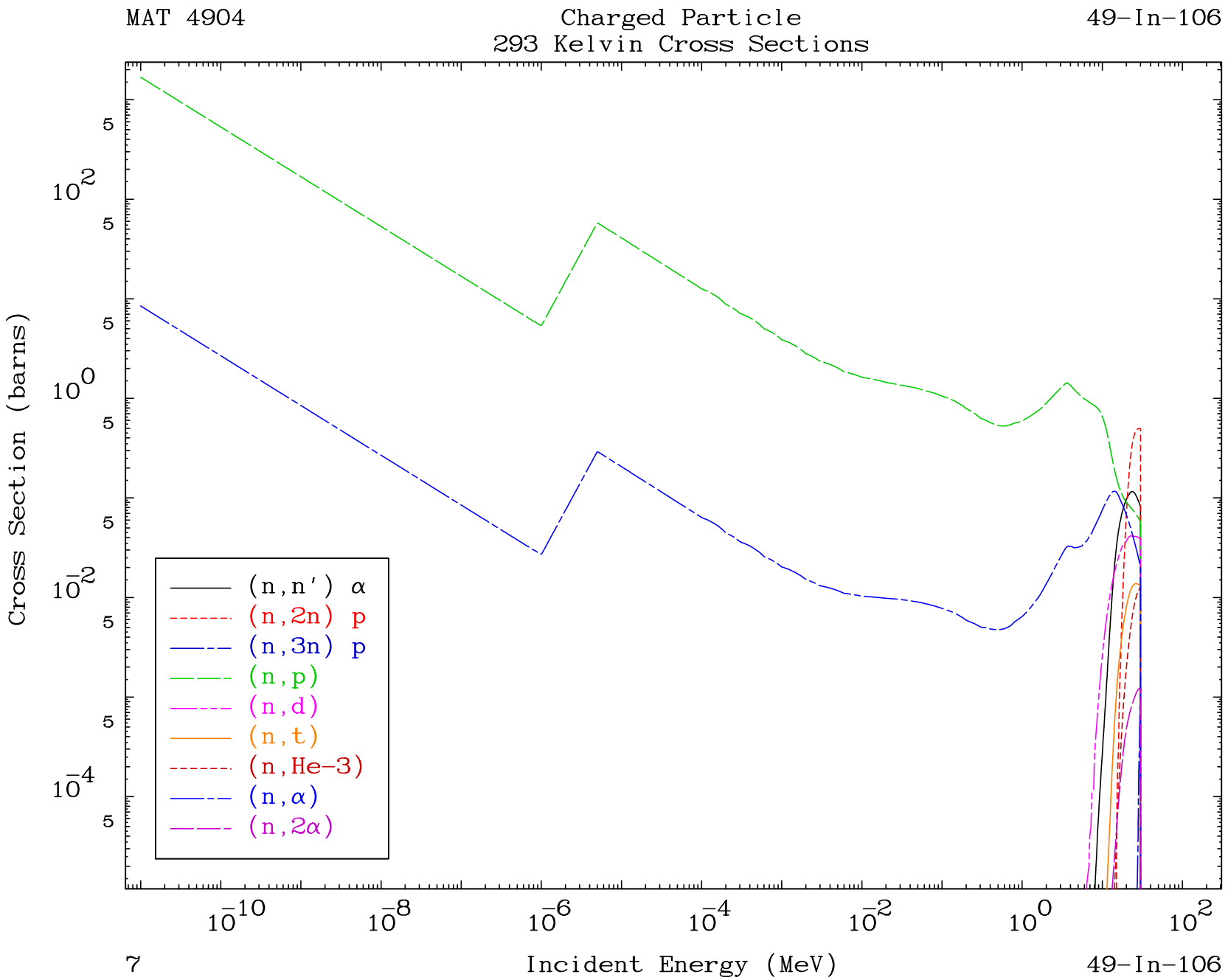

MAT 4904
Neutron Absorption
293 Kelvin Cross Sections
49-In-106
(n,2n) d
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
Cross Section (barns)
Incident Energy (MeV)
49-In-106
2

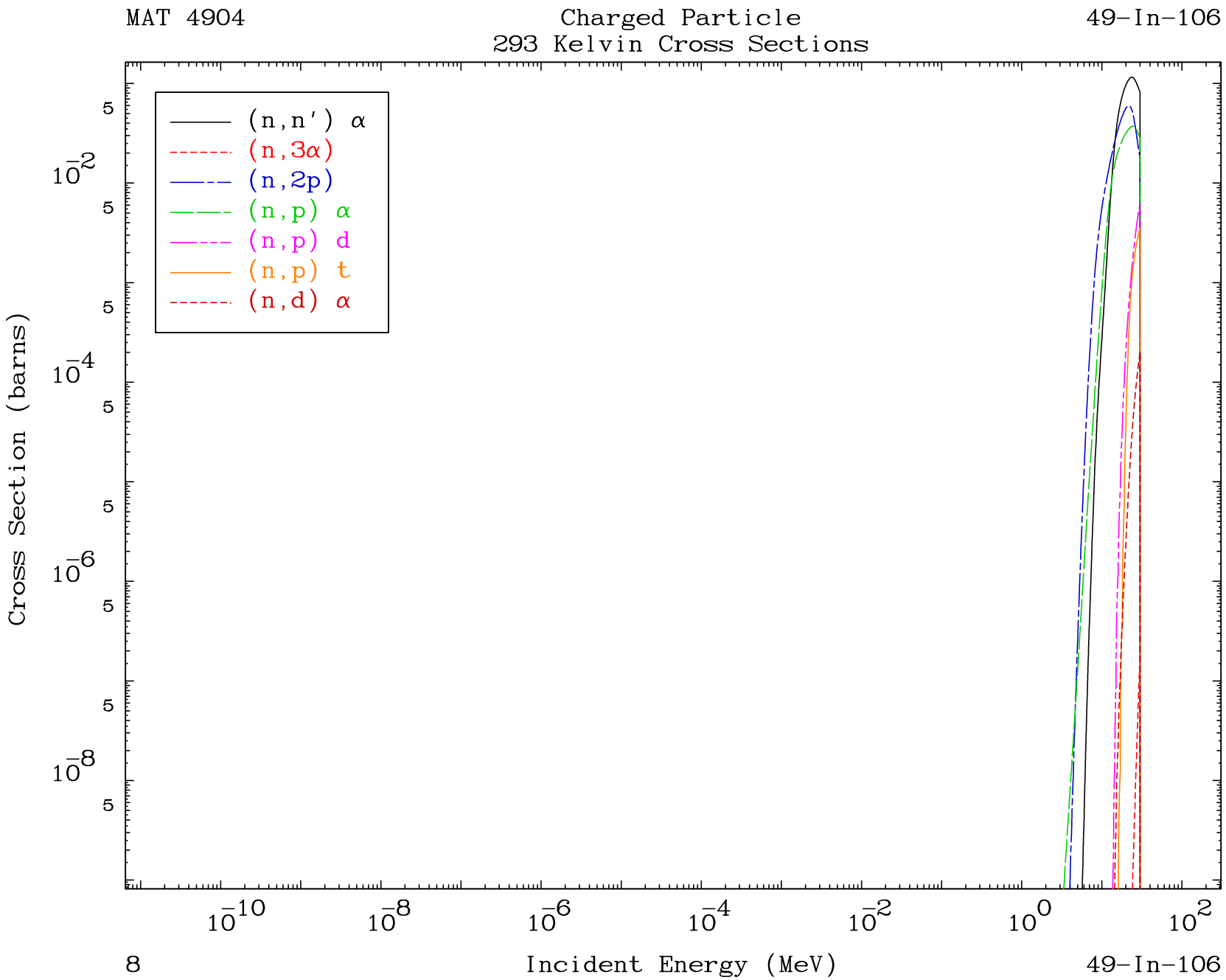

MAT 4904
Neutron Absorption
293 Kelvin Cross Sections
49-In-106
Cross Section (barns)
10^2
10^0
10^-2
10^-4
5
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
(n,3n) p
(n,2n) p
(n,n') p α
(n,γ)
(n,p)
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
Incident Energy (MeV)
3
49-In-106

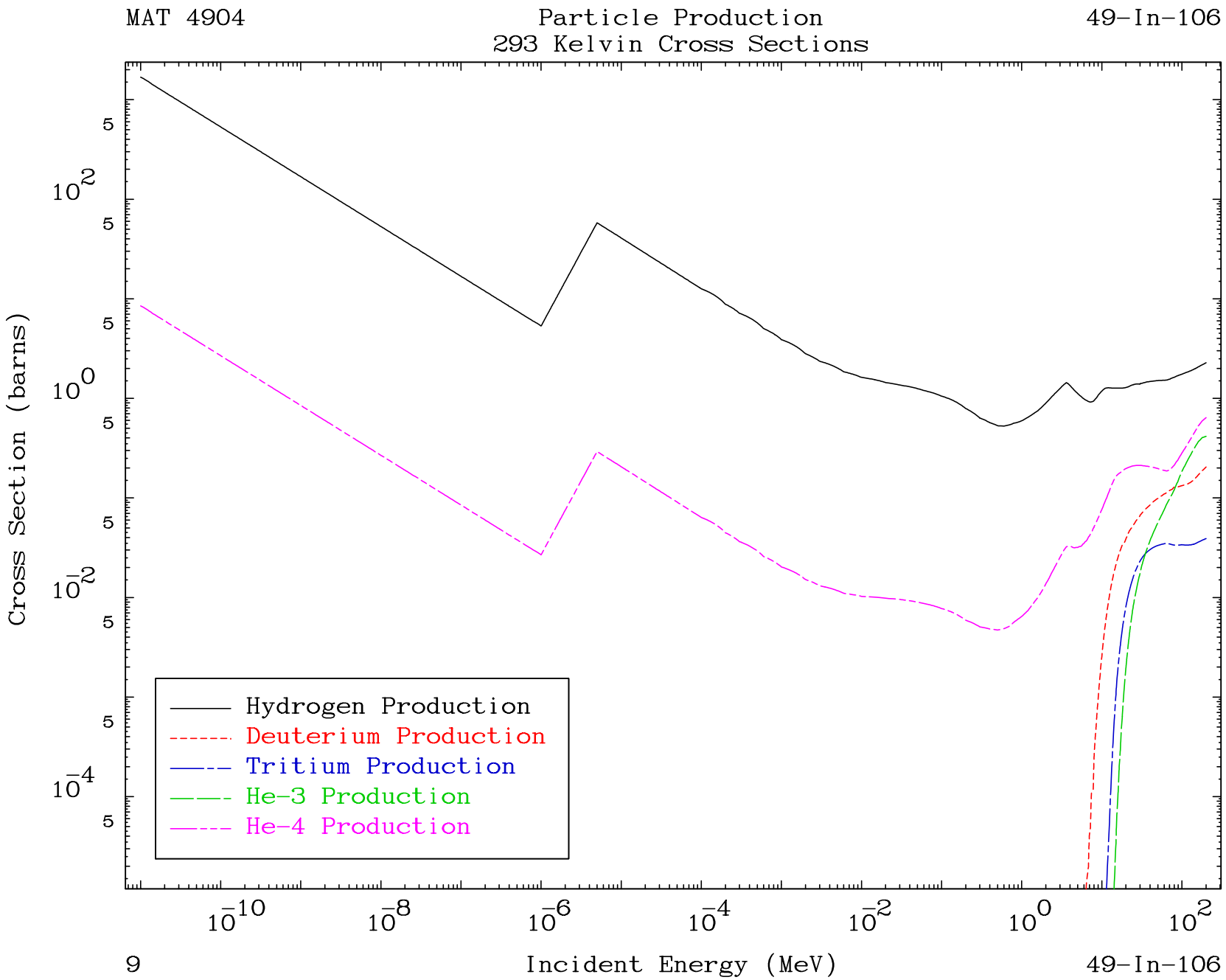

MAT 4904
Neutron Absorption
293 Kelvin Cross Sections
49-In-106
Cross Section (barns)
10^0
10^-2
10^-4
10^-6
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,3α)
(n,2p)
(n,p) α
(n,p) d
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
Incident Energy (MeV)
4
49-In-106

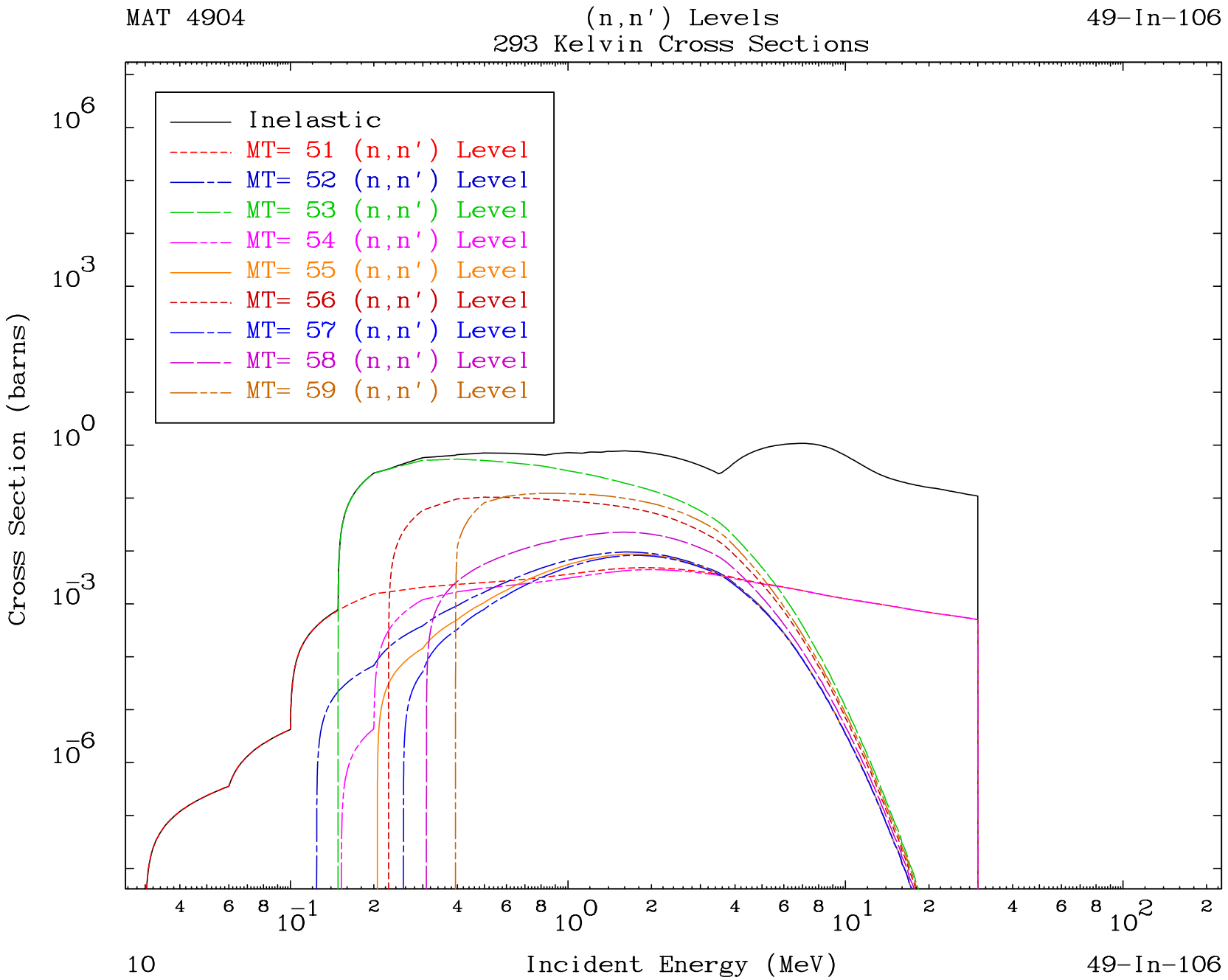

MAT 4904
Neutron Absorption
293 Kelvin Cross Sections
49-In-106
Cross Section (barns)
Incident Energy (MeV)
(n,p) t
(n,d) α
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production
5

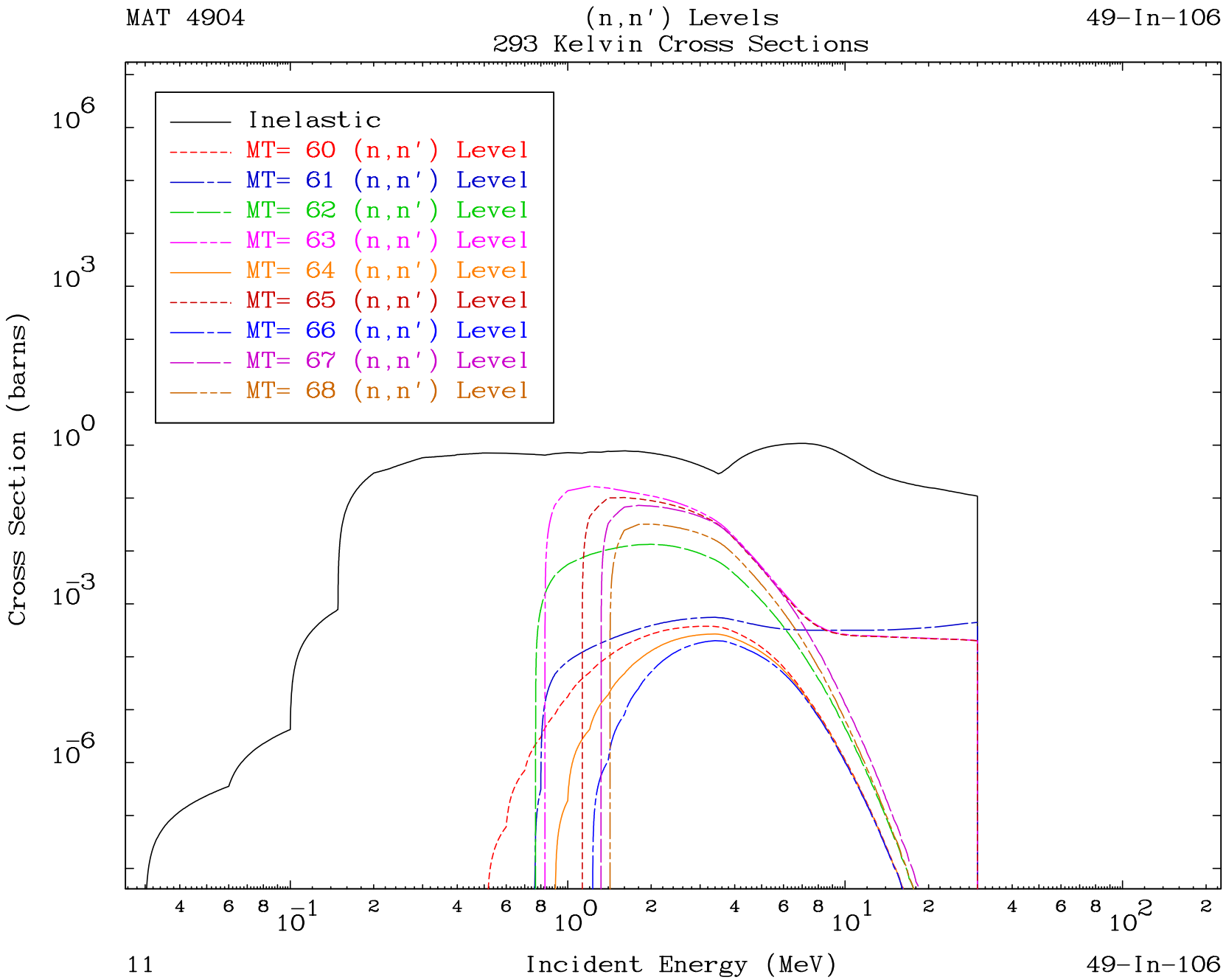

MAT 4904
Charged Particle
293 Kelvin Cross Sections
49-In-106
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
(n,n') He-3
Cross Section (barns)
Incident Energy (MeV)
6
49-In-106

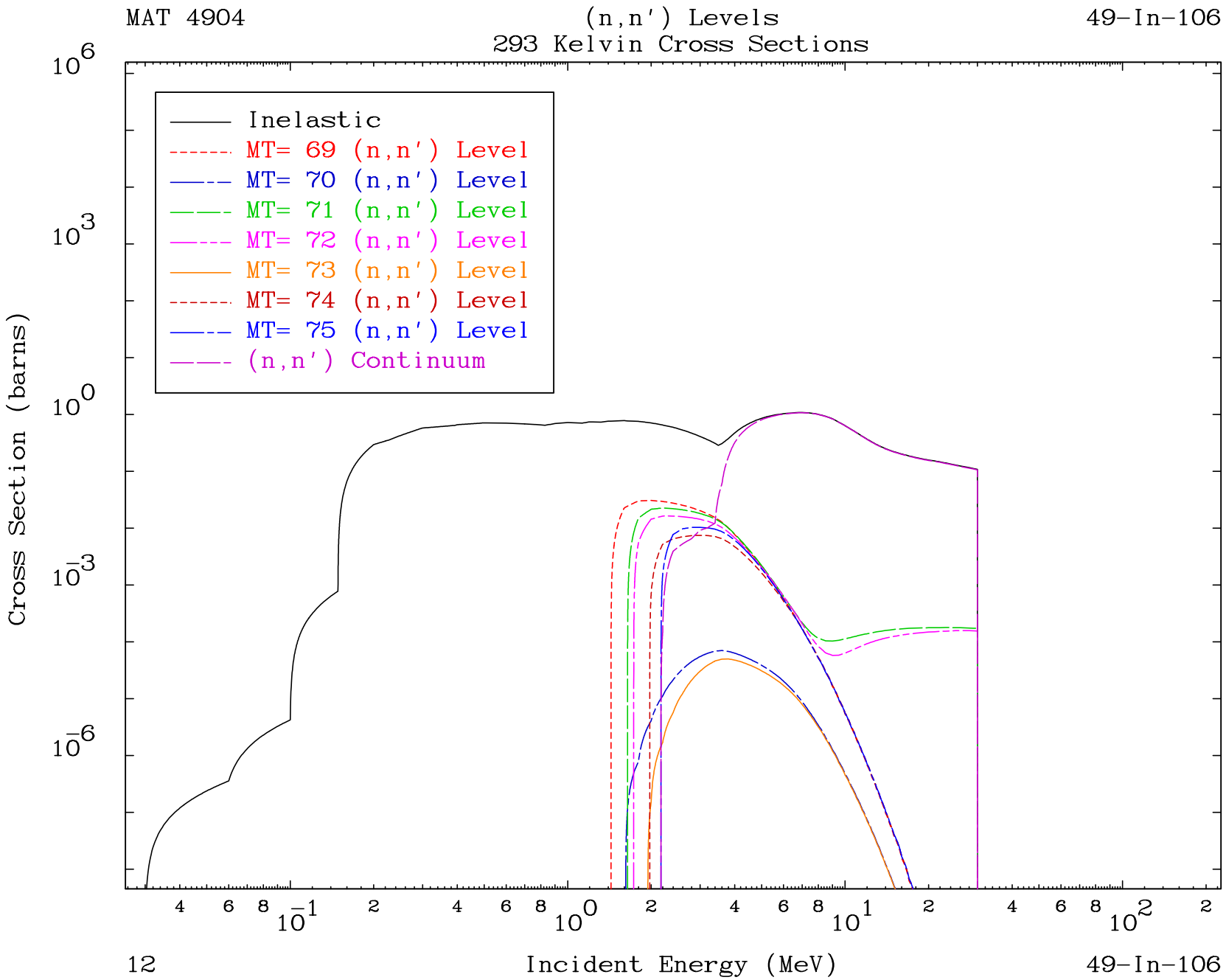

MAT 4904
Charged Particle
293 Kelvin Cross Sections
49-In-106
Cross Section (barns)
Incident Energy (MeV)
(n,n') α
(n,2n) p
(n,3n) p
(n,p)
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
7
49-In-106

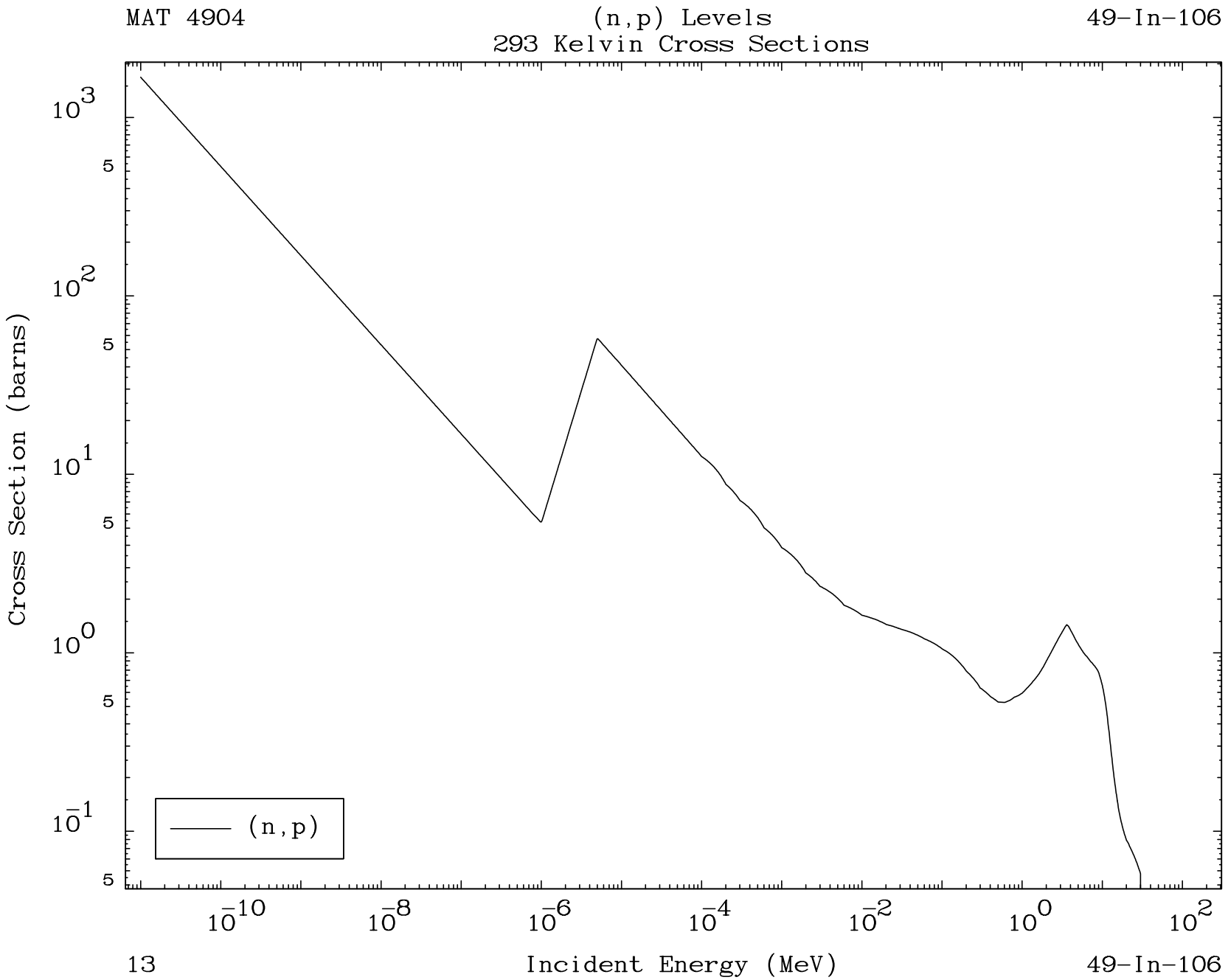

MAT 4904
Charged Particle
293 Kelvin Cross Sections
49-In-106
(n,n') α
(n,3α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
8
49-In-106

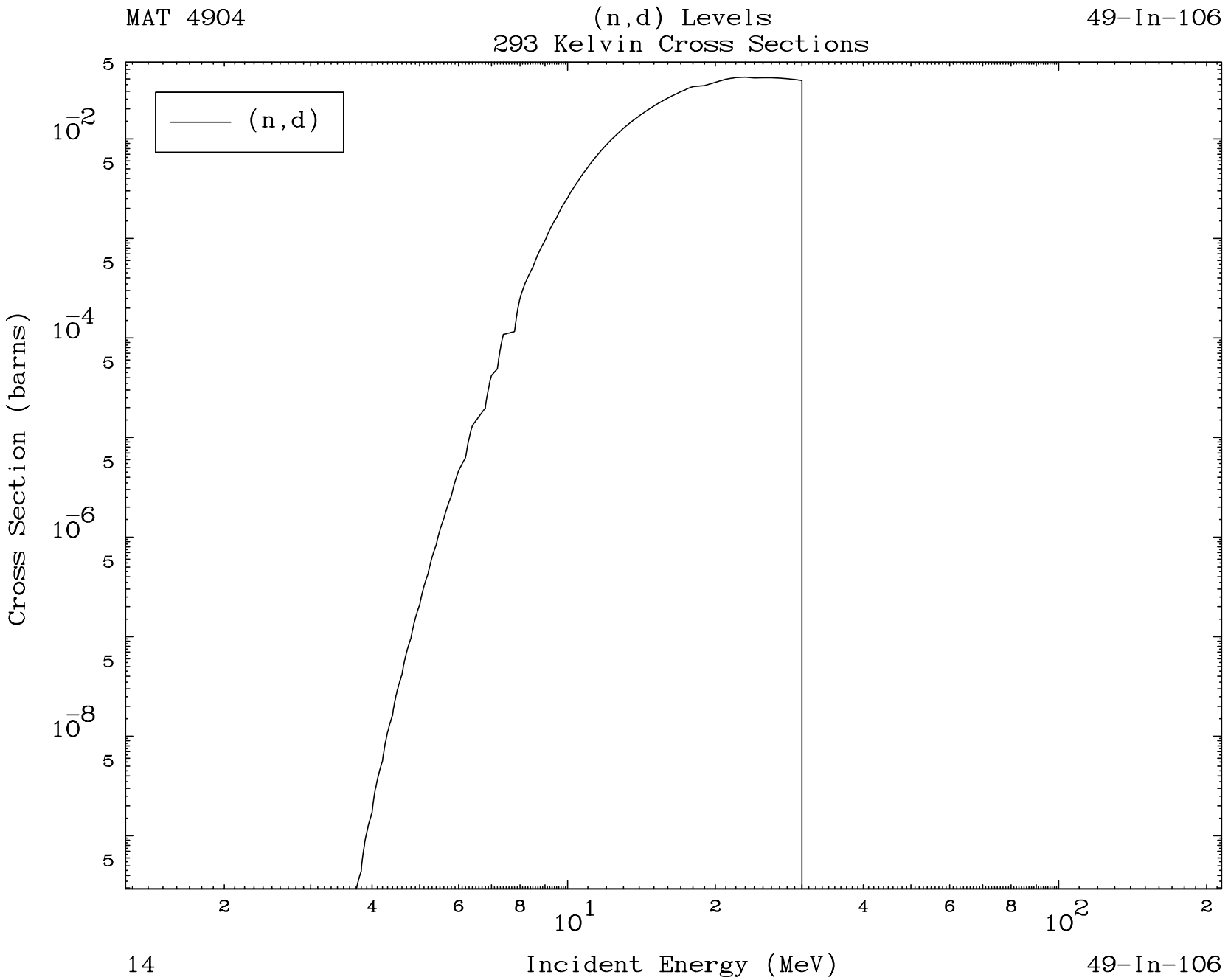

MAT 4904
Particle Production
293 Kelvin Cross Sections
49-In-106
Cross Section (barns)
10^2
10^0
10^-2
10^-4
5
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
Incident Energy (MeV)
9
49-In-106

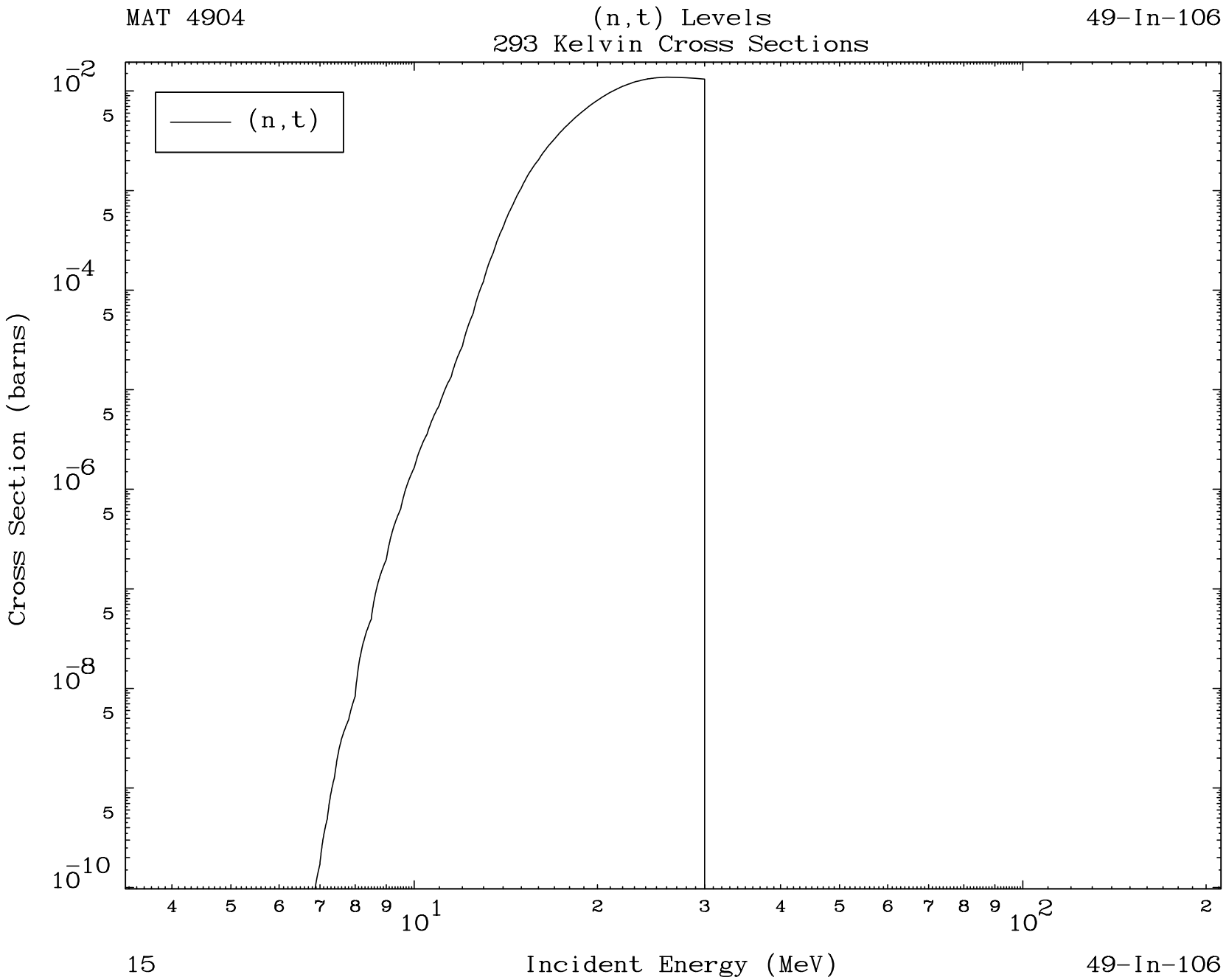

MAT 4904
(n,n') Levels
49-In-106
293 Kelvin Cross Sections
Inelastic
MT= 51 (n,n') Level
MT= 52 (n,n') Level
MT= 53 (n,n') Level
MT= 54 (n,n') Level
MT= 55 (n,n') Level
MT= 56 (n,n') Level
MT= 57 (n,n') Level
MT= 58 (n,n') Level
MT= 59 (n,n') Level
Cross Section (barns)
10^6
10^3
10^0
10^-3
10^-6
10^-1
10^0
10^1
10^2
Incident Energy (MeV)
49-In-106

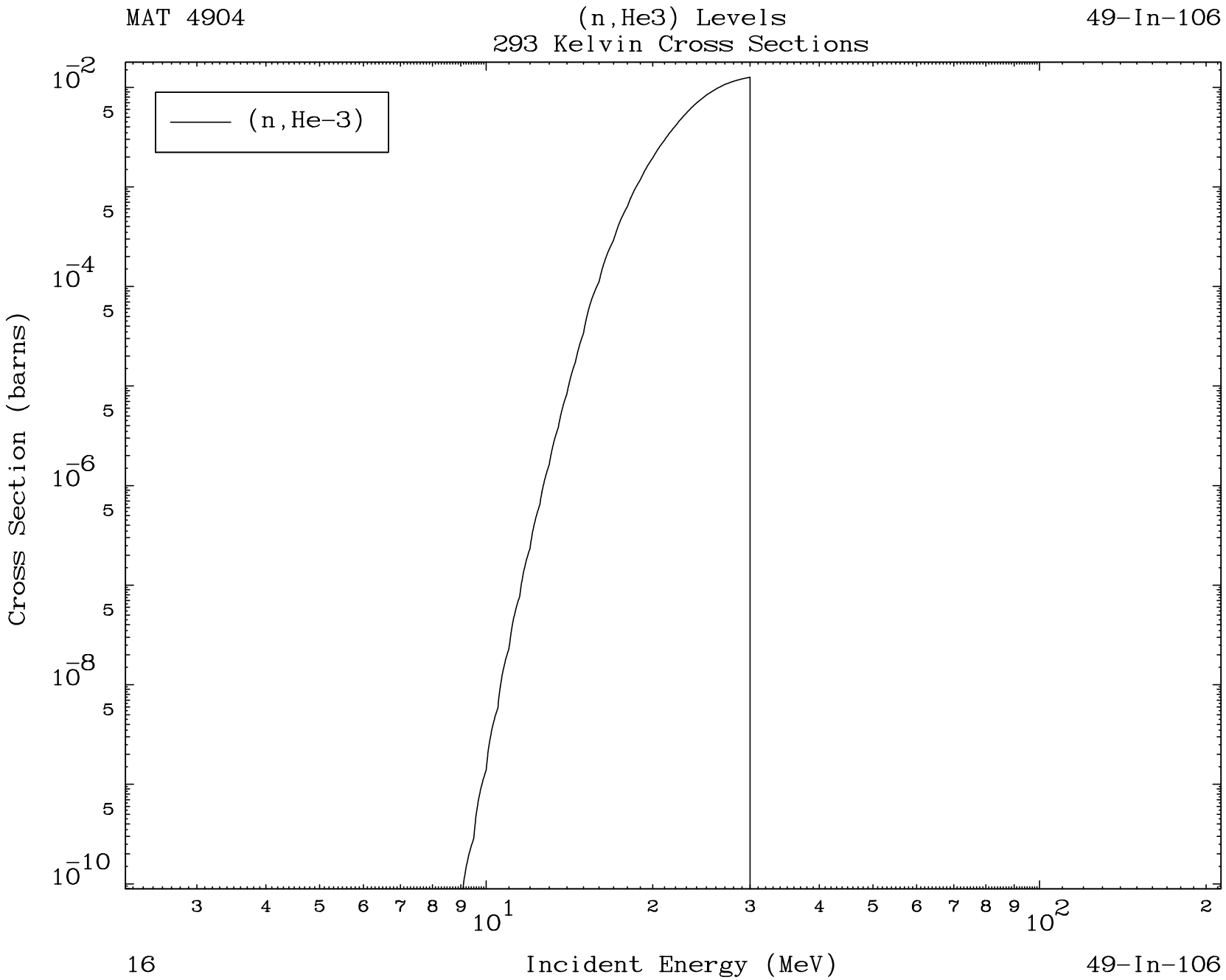

MAT 4904
(n,n') Levels
293 Kelvin Cross Sections
49-In-106
Inelastic
MT= 60 (n,n') Level
MT= 61 (n,n') Level
MT= 62 (n,n') Level
MT= 63 (n,n') Level
MT= 64 (n,n') Level
MT= 65 (n,n') Level
MT= 66 (n,n') Level
MT= 67 (n,n') Level
MT= 68 (n,n') Level
Cross Section (barns)
Incident Energy (MeV)
11
49-In-106

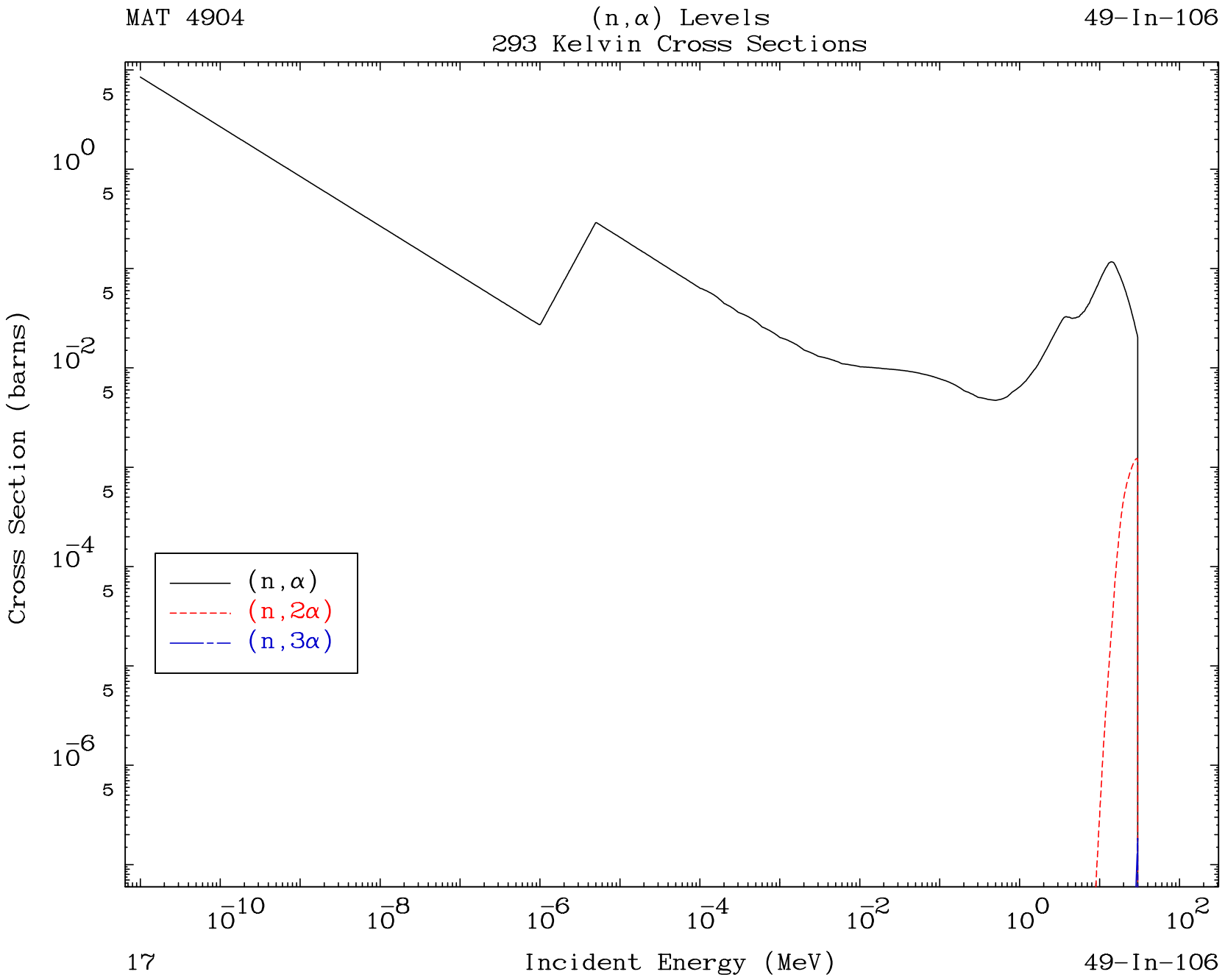

MAT 4904
(n,n') Levels
293 Kelvin Cross Sections
49-In-106
Inelastic
MT= 69 (n,n') Level
MT= 70 (n,n') Level
MT= 71 (n,n') Level
MT= 72 (n,n') Level
MT= 73 (n,n') Level
MT= 74 (n,n') Level
MT= 75 (n,n') Level
(n,n') Continuum
Cross Section (barns)
Incident Energy (MeV)
12
49-In-106

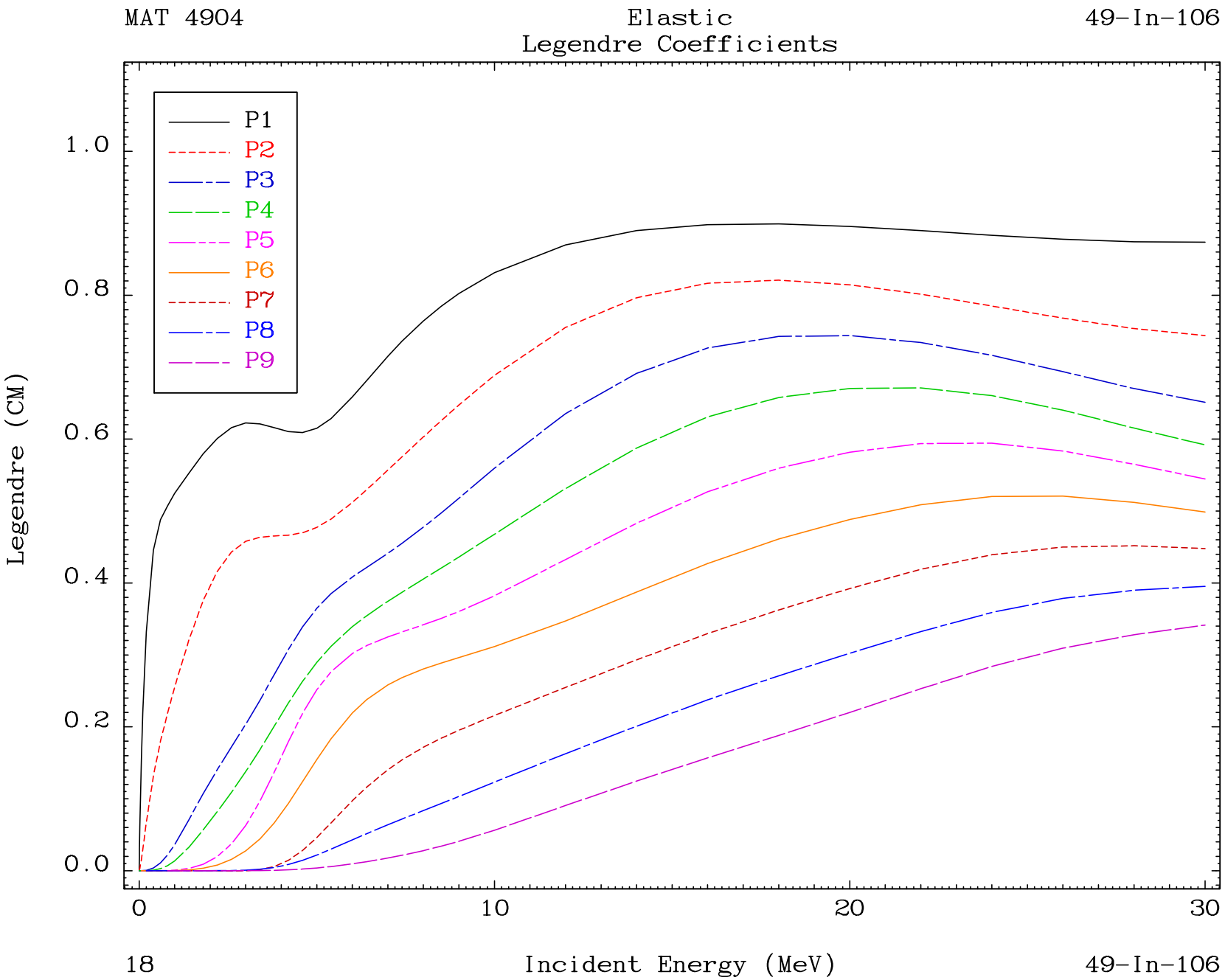

MAT 4904
(n,p) Levels
49-In-106
293 Kelvin Cross Sections
Cross Section (barns)
10^3
5
10^2
5
10^1
5
10^0
5
10^-1
5
(n,p)
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
13
Incident Energy (MeV)
49-In-106

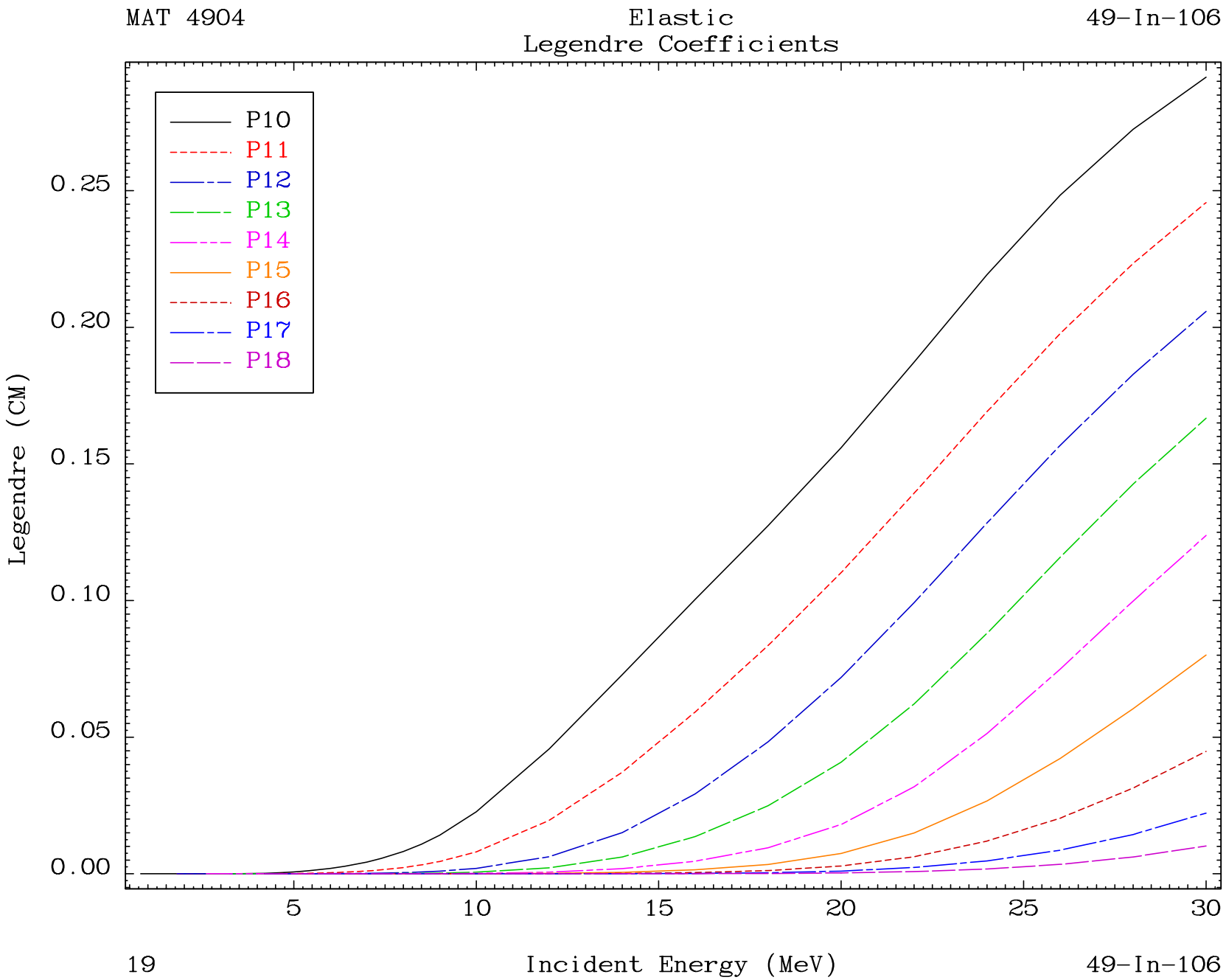

MAT 4904
(n,d) Levels
49-In-106
293 Kelvin Cross Sections
(n,d)
Cross Section (barns)
10-2
10-4
10-6
10-8
5
2
4
6
8
10 1
10 2
Incident Energy (MeV)
14
49-In-106

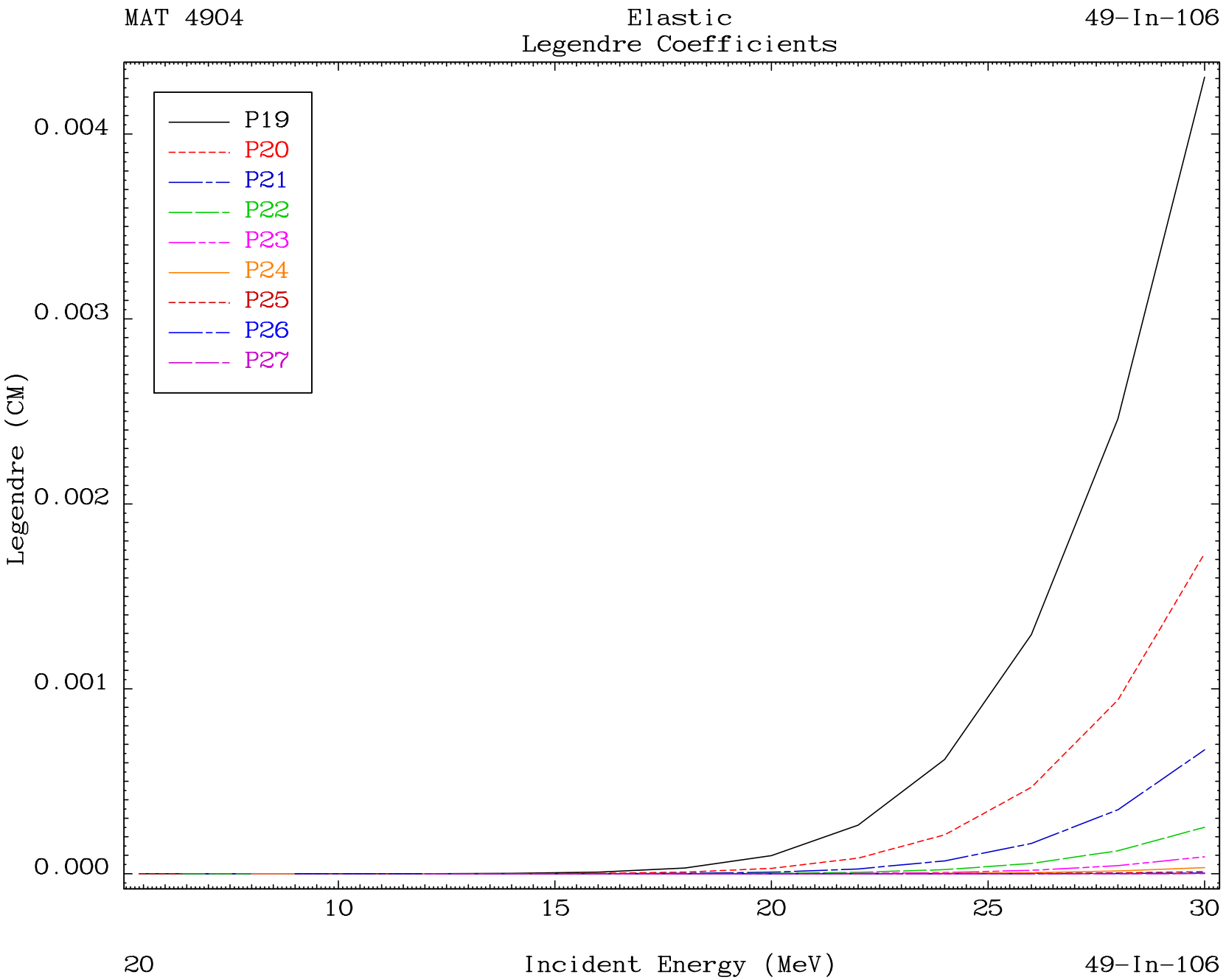

MAT 4904
(n,t) Levels
49-In-106
293 Kelvin Cross Sections
(n,t)
Cross Section (barns)
Incident Energy (MeV)
15
49-In-106

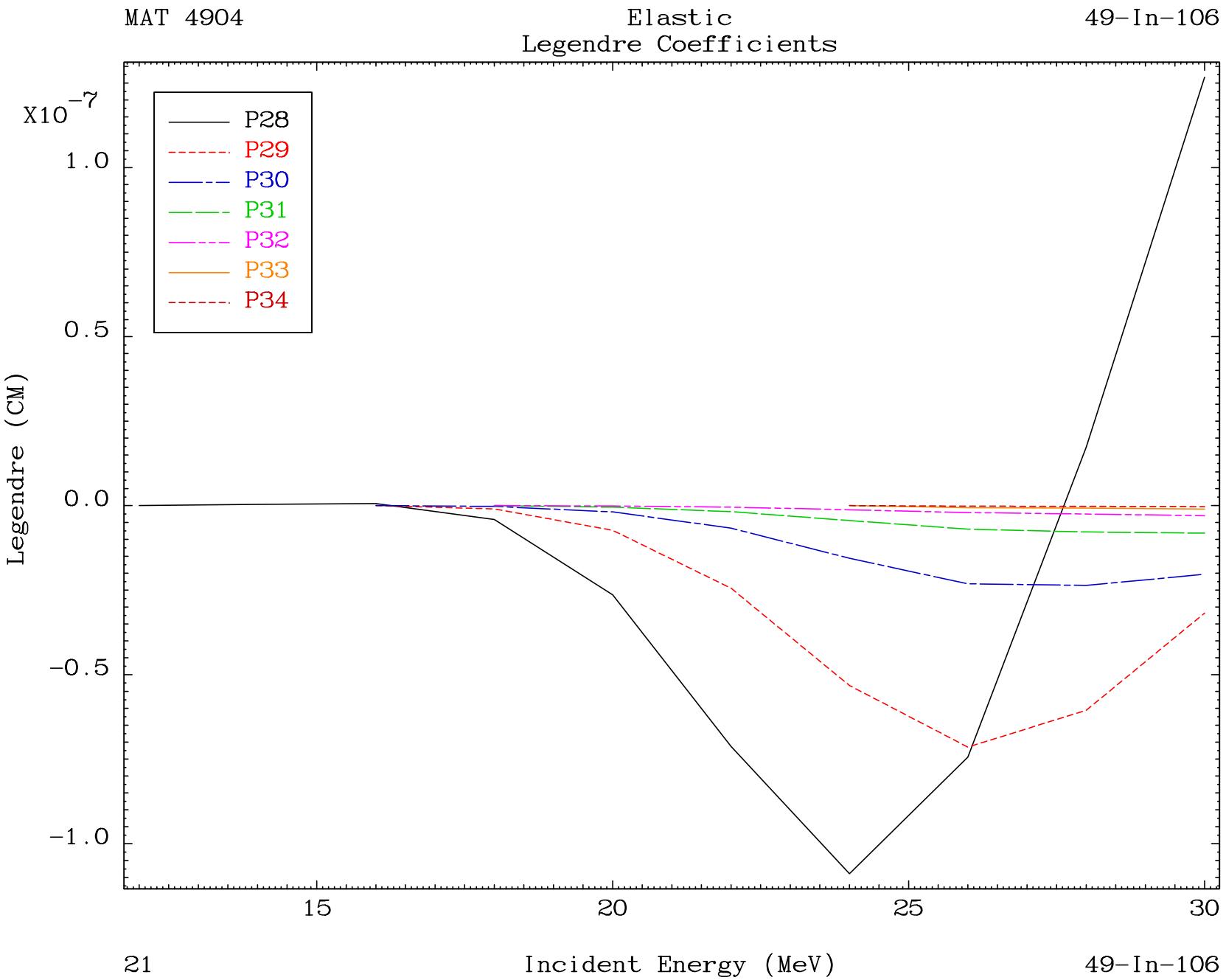

MAT 4904
(n,He3) Levels
49-In-106
293 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
Incident Energy (MeV)
16
49-In-106

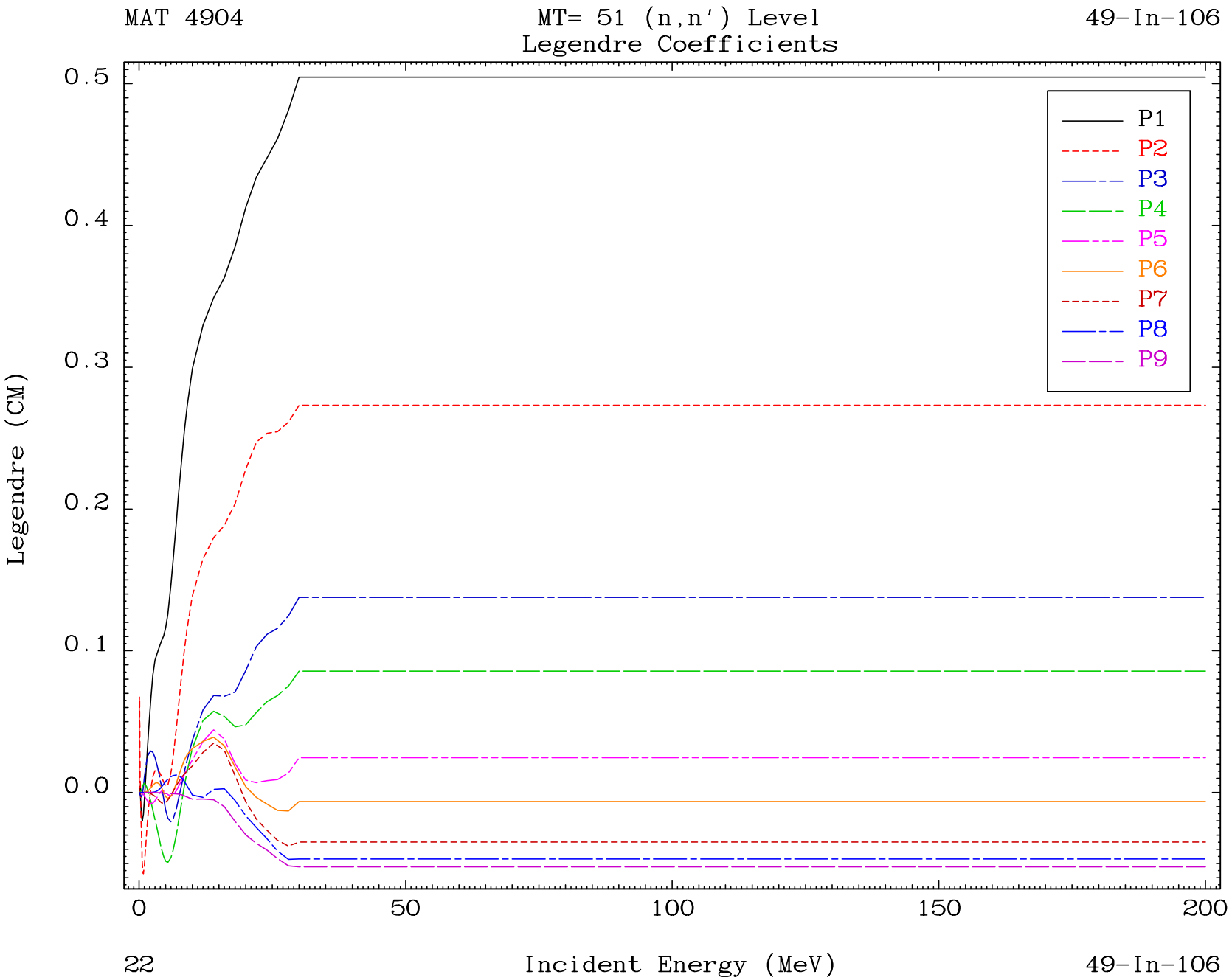

MAT 4904
(n,α) Levels
49-In-106
293 Kelvin Cross Sections
Cross Section (barns)
10^0
10^-2
10^-4
10^-6
5
(n,α)
(n,2α)
(n,3α)
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
17
Incident Energy (MeV)
49-In-106

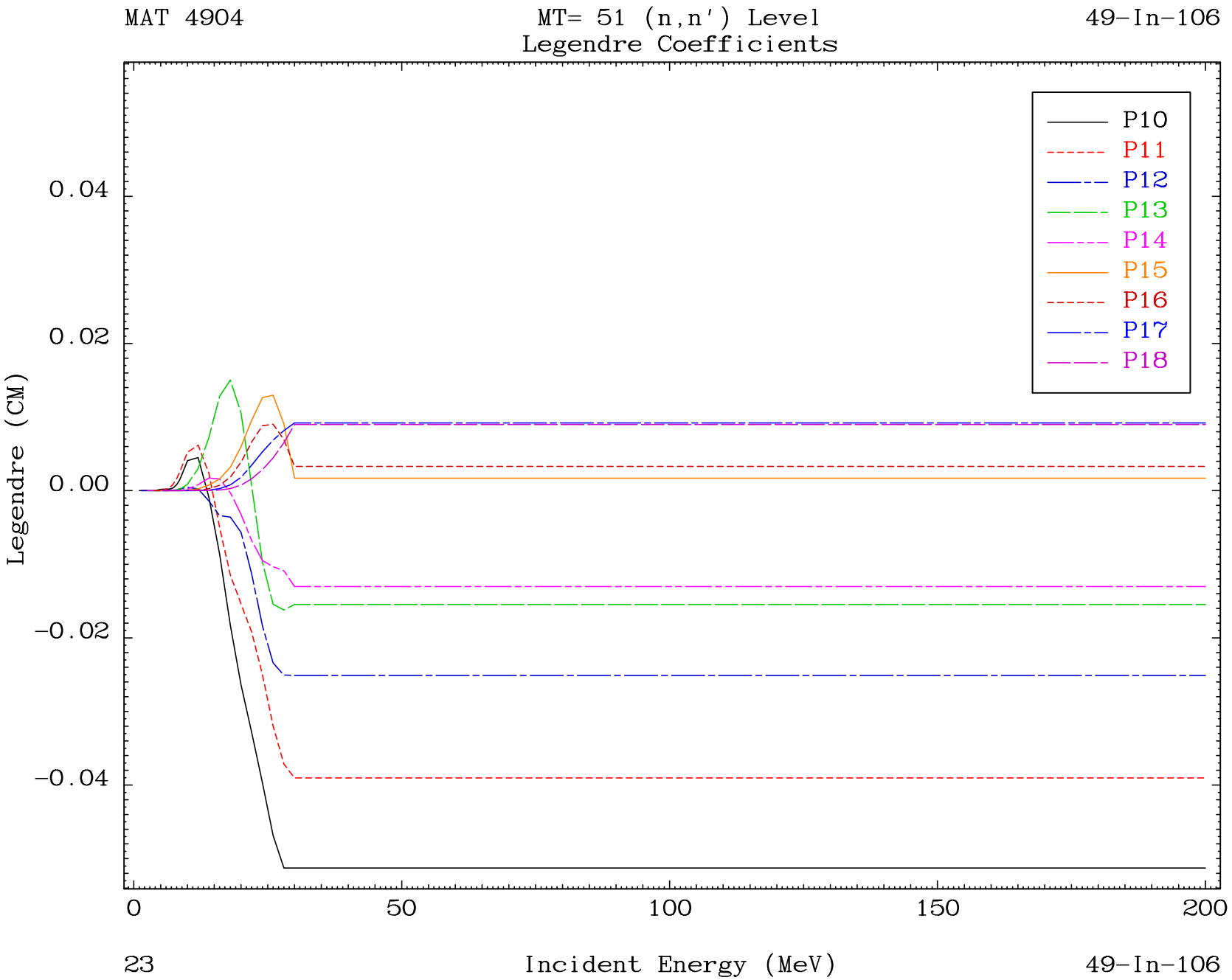

MAT 4904
Elastic
Legendre Coefficients
49-In-106
P1
P2
P3
P4
P5
P6
P7
P8
P9
Legendre (CM)
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
18
Incident Energy (MeV)
49-In-106

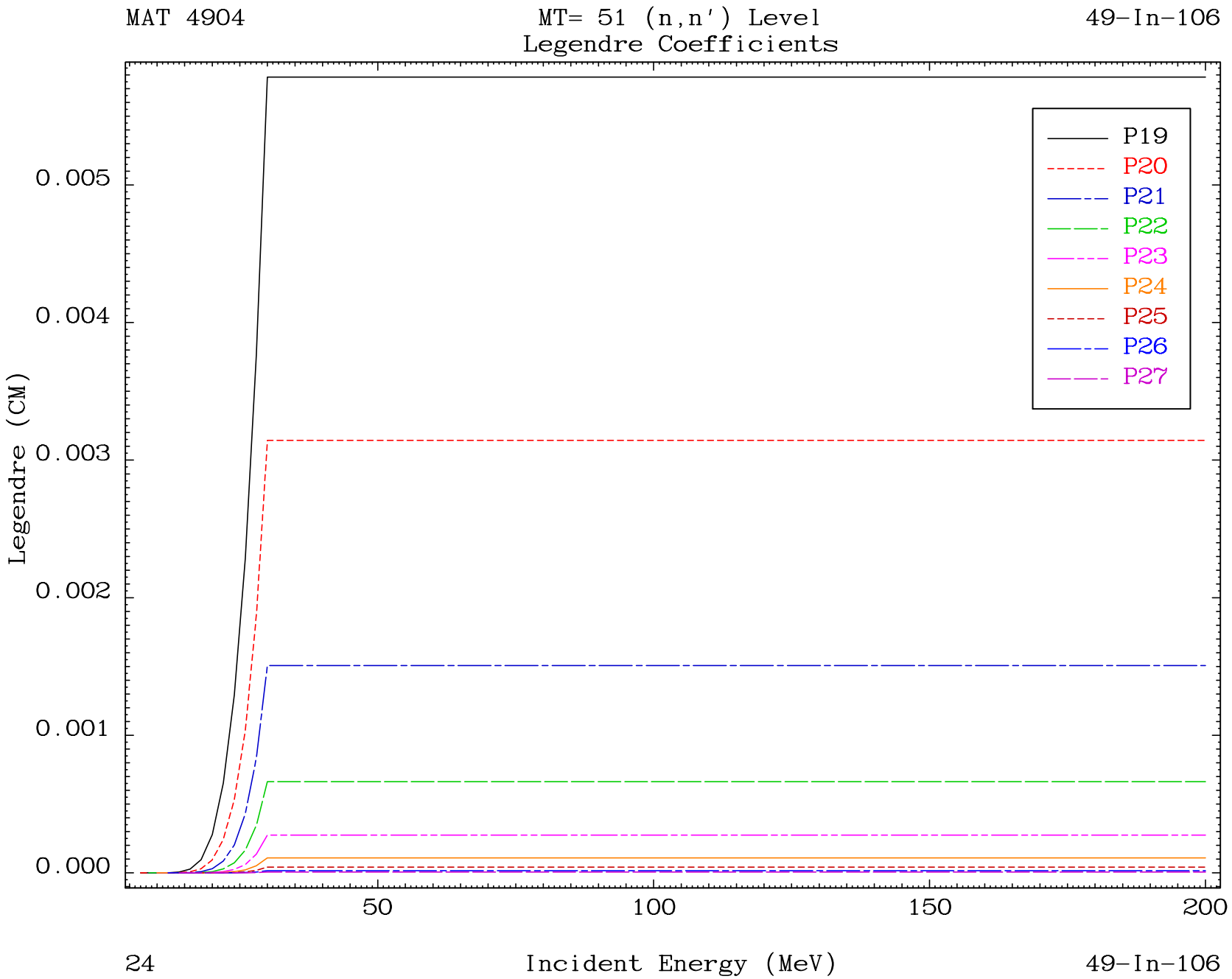

MAT 4904
Elastic
Legendre Coefficients
49-In-106
P10
P11
P12
P13
P14
P15
P16
P17
P18
Legendre (CM)
0.25
0.20
0.15
0.10
0.05
0.00
5
10
15
20
25
30
19
Incident Energy (MeV)
49-In-106

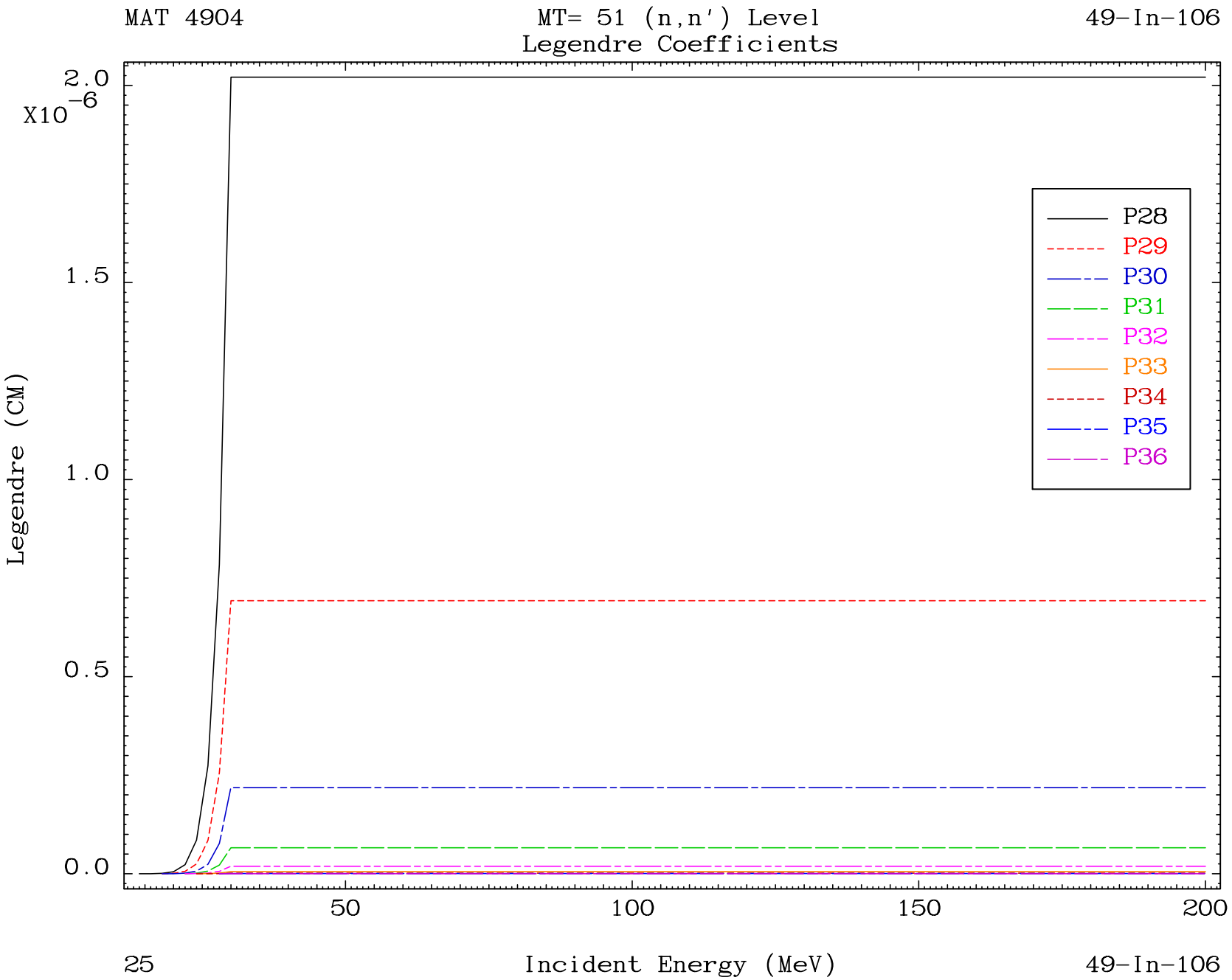

MAT 4904
Elastic
Legendre Coefficients
49-In-106
P19
P20
P21
P22
P23
P24
P25
P26
P27
0.004
0.003
0.002
0.001
0.000
Legendre (CM)
10
15
20
25
30
20
Incident Energy (MeV)
49-In-106

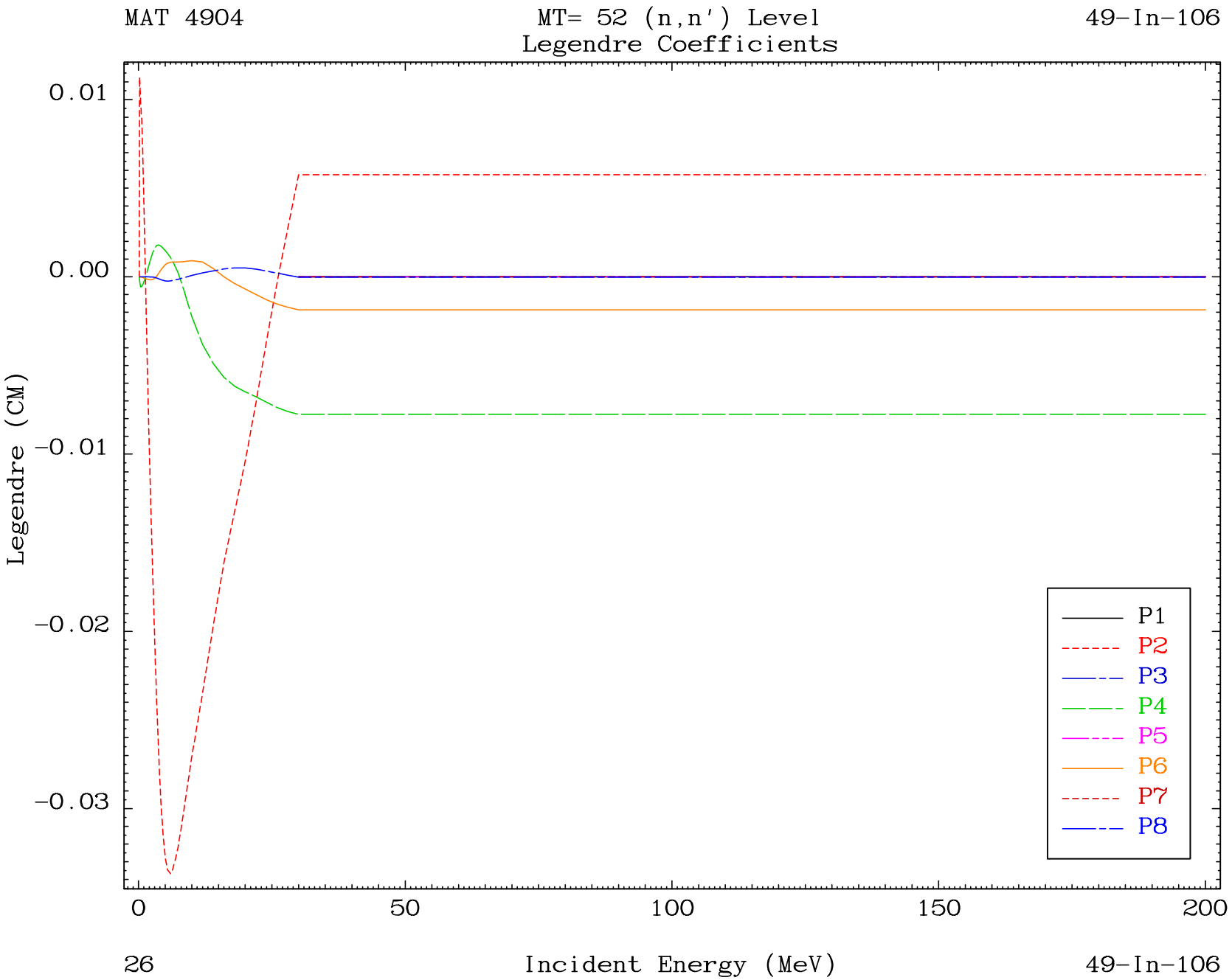

MAT 4904
Elastic
Legendre Coefficients
49-In-106
X10^-7
1.0
0.5
0.0
-0.5
-1.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
15
20
25
30
21
Incident Energy (MeV)
49-In-106

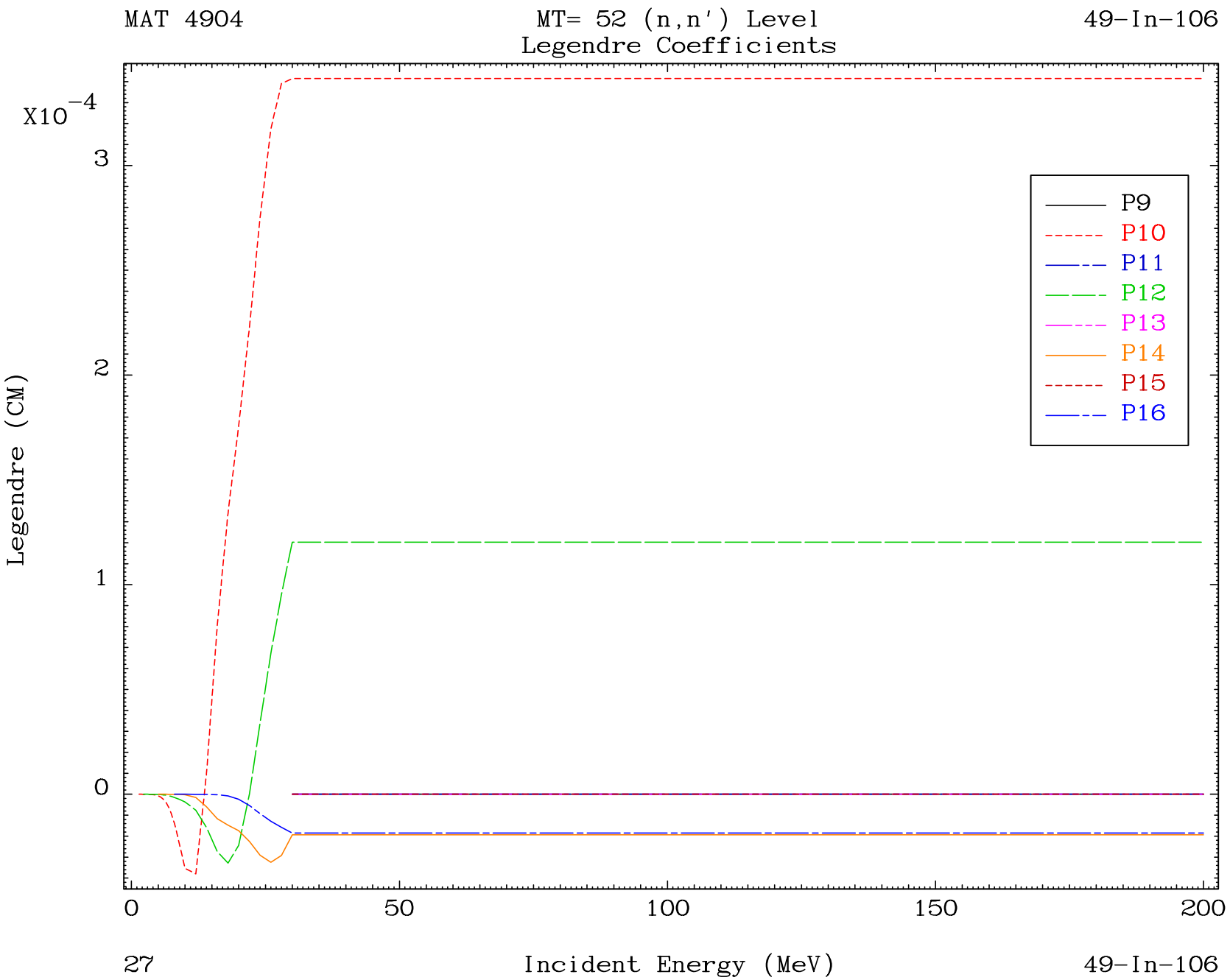

MAT 4904
MT= 51 (n,n') Level
Legendre Coefficients
49-In-106
Legendre (CM)
0.5
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
22
Incident Energy (MeV)
49-In-106
P1
P2
P3
P4
P5
P6
P7
P8
P9

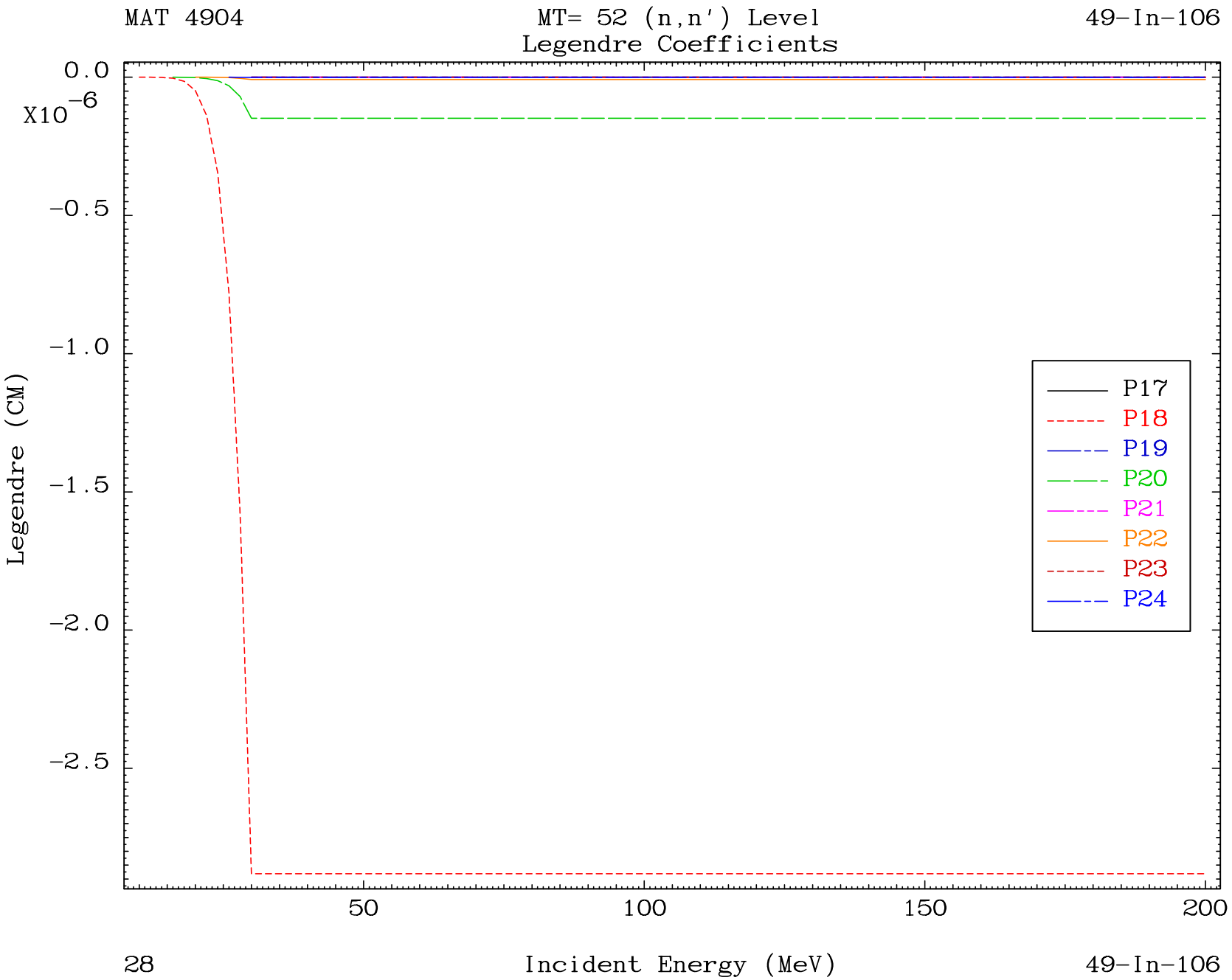

MAT 4904
MT= 51 (n,n') Level
Legendre Coefficients
49-In-106
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.04
0.02
0.00
-0.02
-0.04
Legendre (CM)
0
50
100
150
200
23
Incident Energy (MeV)
49-In-106

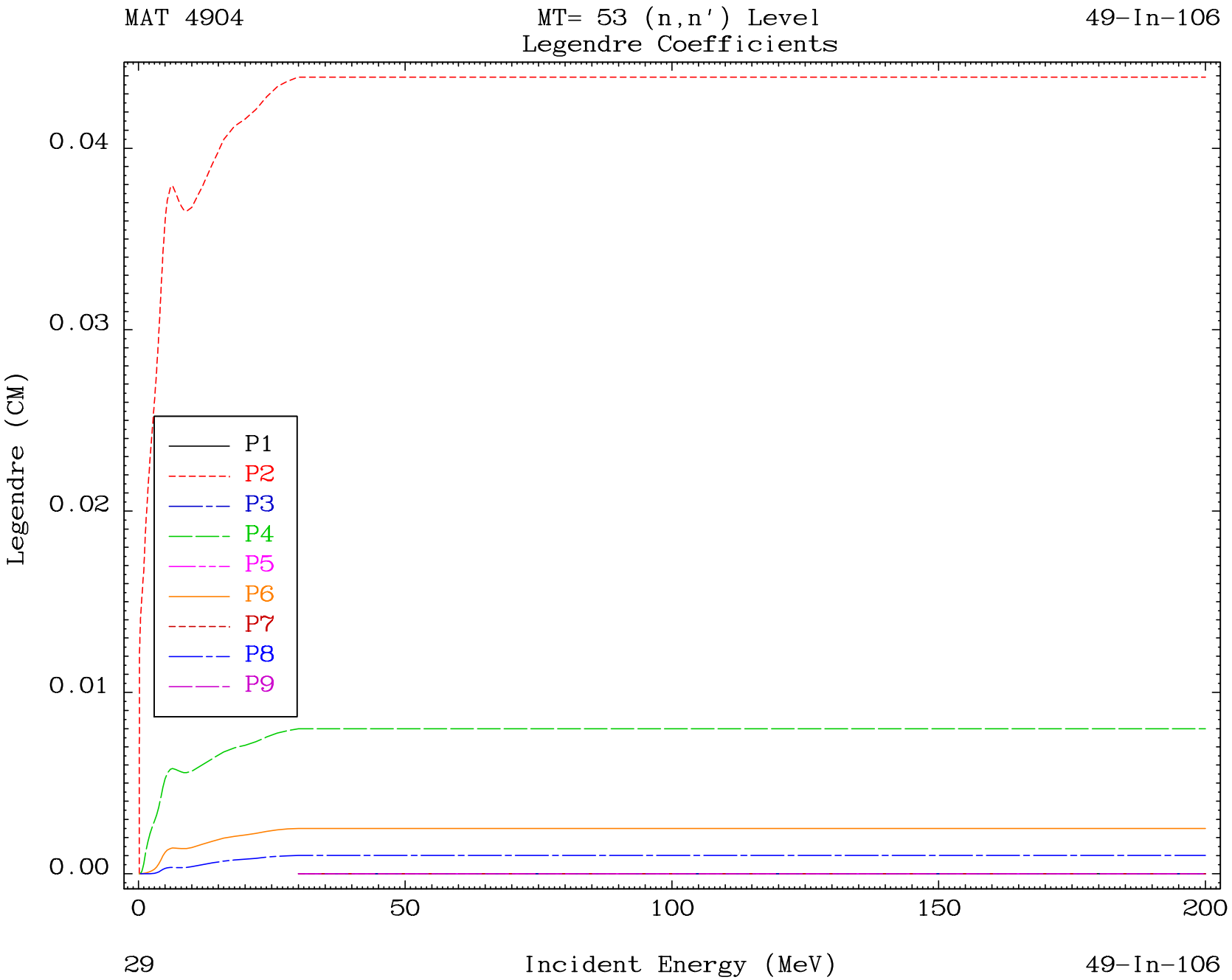

MAT 4904
MT= 51 (n,n') Level
Legendre Coefficients
49-In-106
P19
P20
P21
P22
P23
P24
P25
P26
P27
0.005
0.004
0.003
0.002
0.001
0.000
Legendre (CM)
50
100
150
200
24
Incident Energy (MeV)
49-In-106

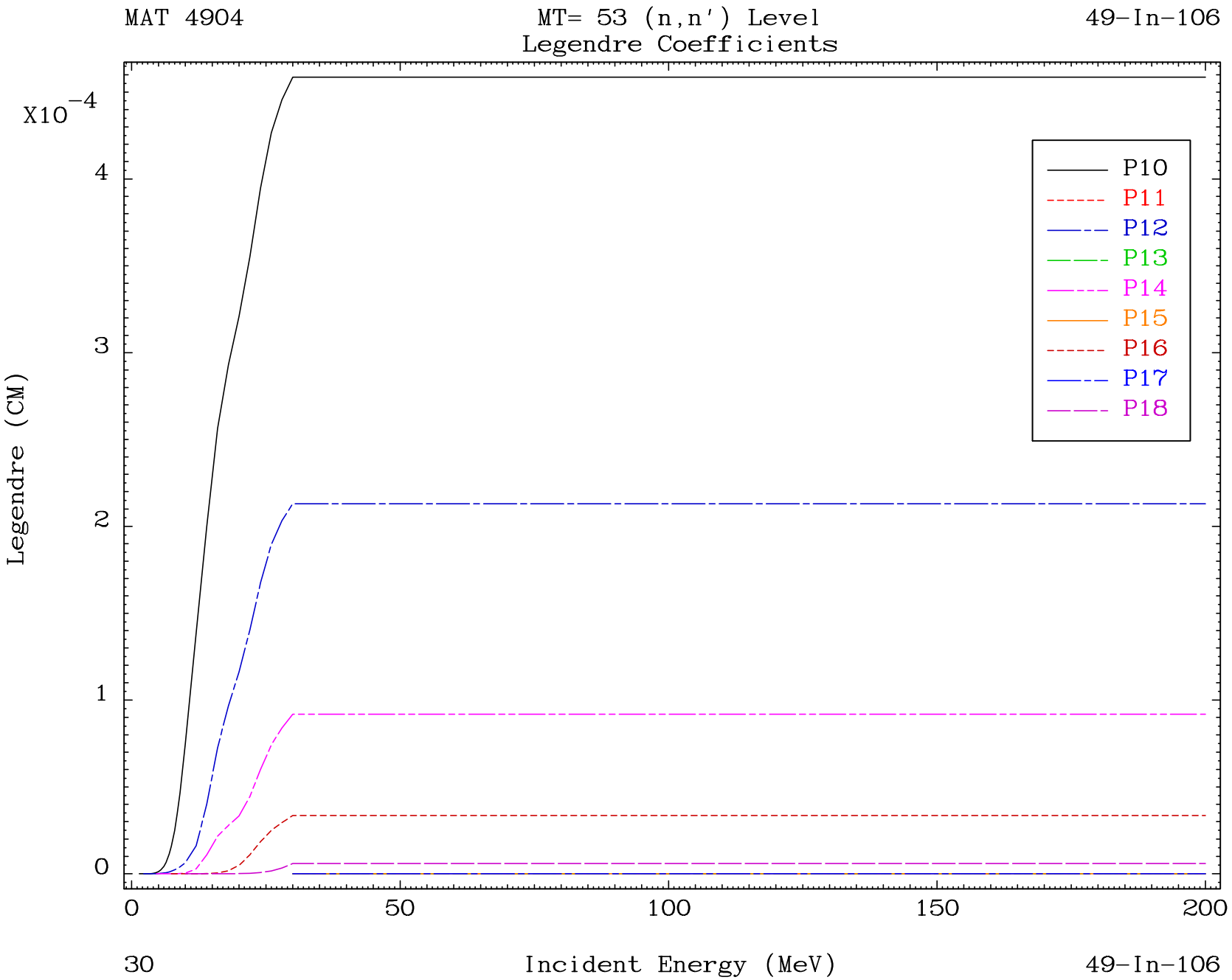

MAT 4904
MT= 51 (n,n') Level
Legendre Coefficients
49-In-106
X10 -6
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
P35
P36
50
100
150
200
25
Incident Energy (MeV)
49-In-106

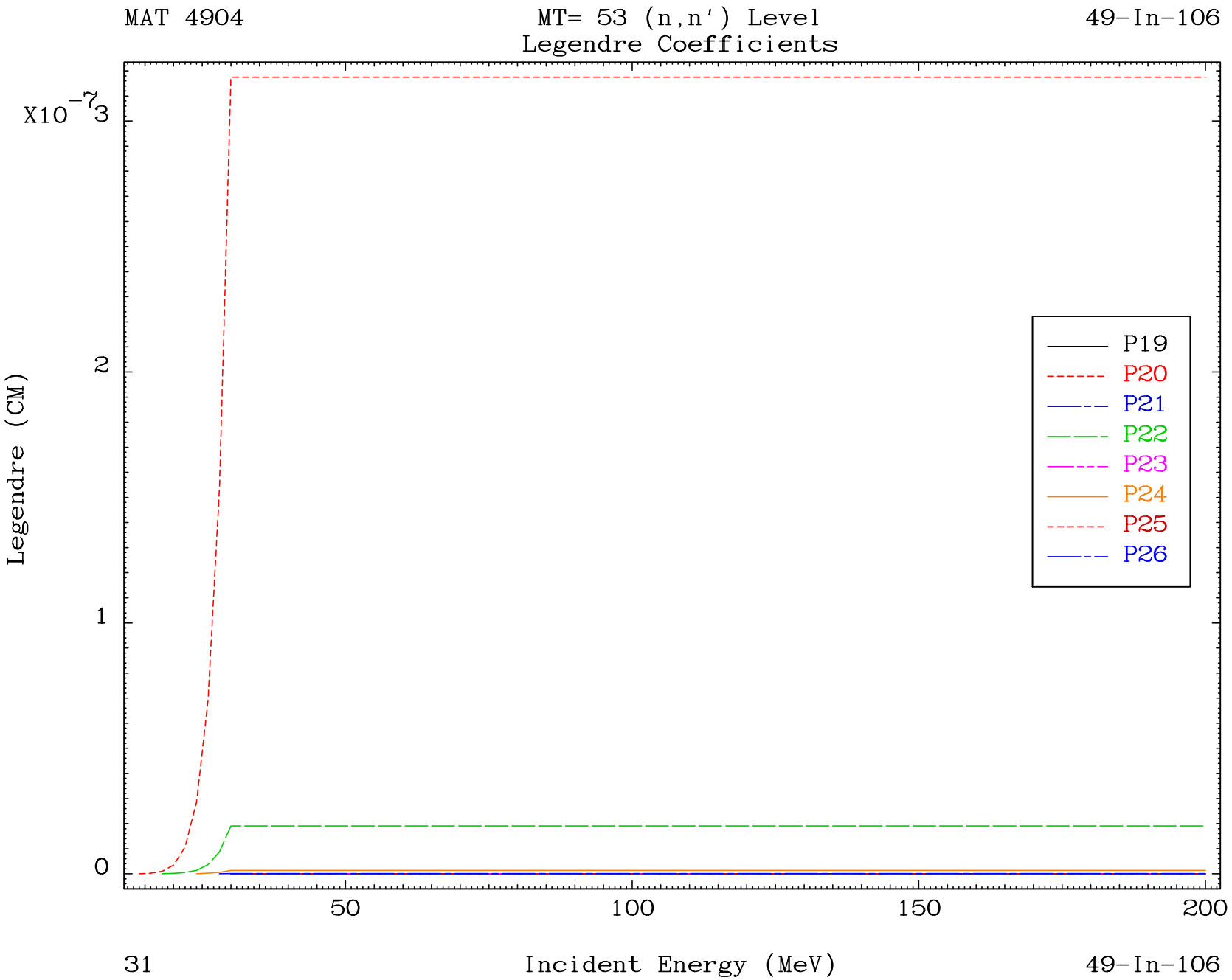

MAT 4904
MT= 52 (n,n') Level
Legendre Coefficients
49-In-106
0.01
0.00
-0.01
-0.02
-0.03
Legendre (CM)
0
50
100
150
200
Incident Energy (MeV)
26
49-In-106
P1
P2
P3
P4
P5
P6
P7
P8

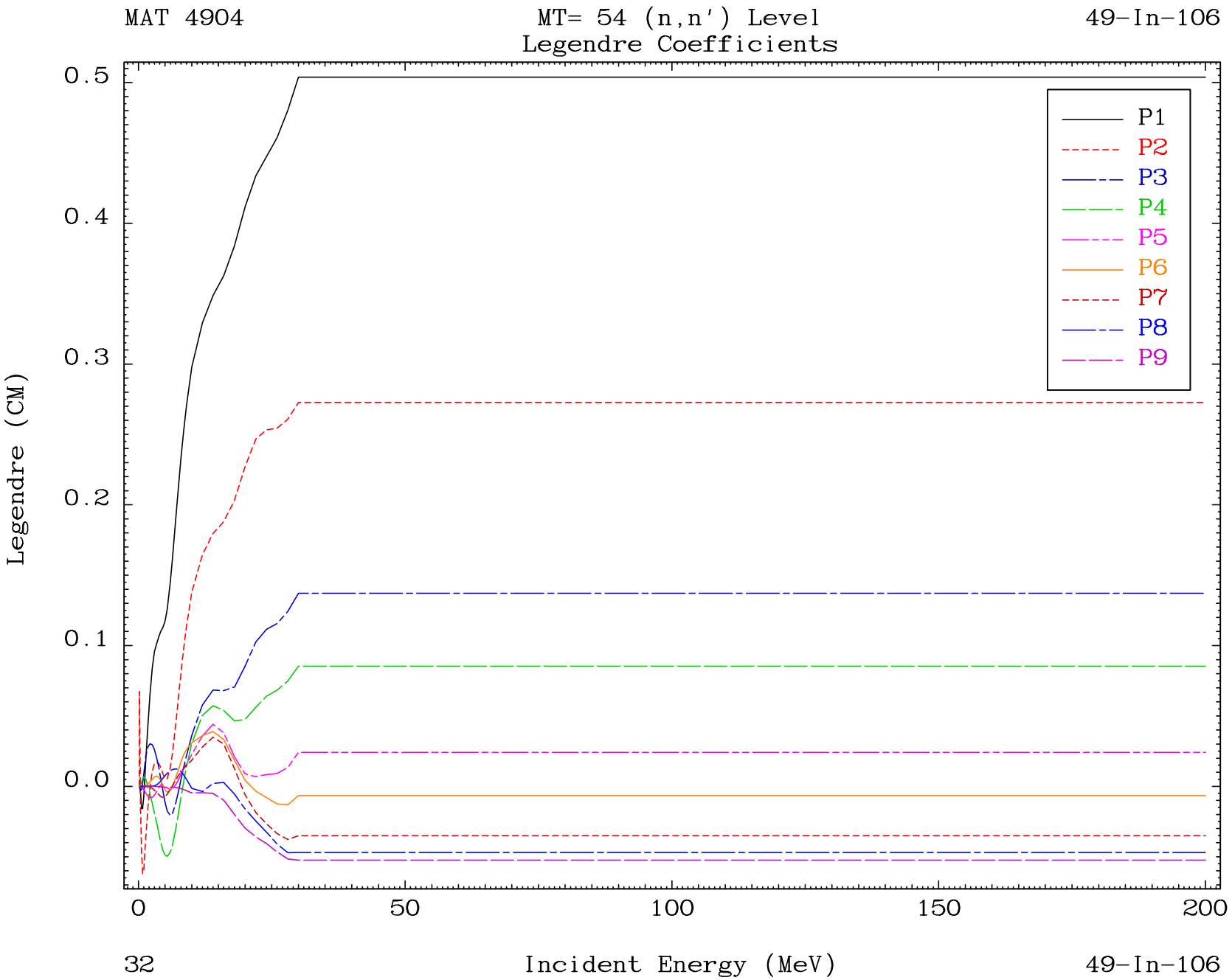

MAT 4904
MT= 52 (n,n') Level
Legendre Coefficients
49-In-106
X10^-4
3
2
1
0
Legendre (CM)
P9
P10
P11
P12
P13
P14
P15
P16
0
50
100
150
200
27
Incident Energy (MeV)
49-In-106

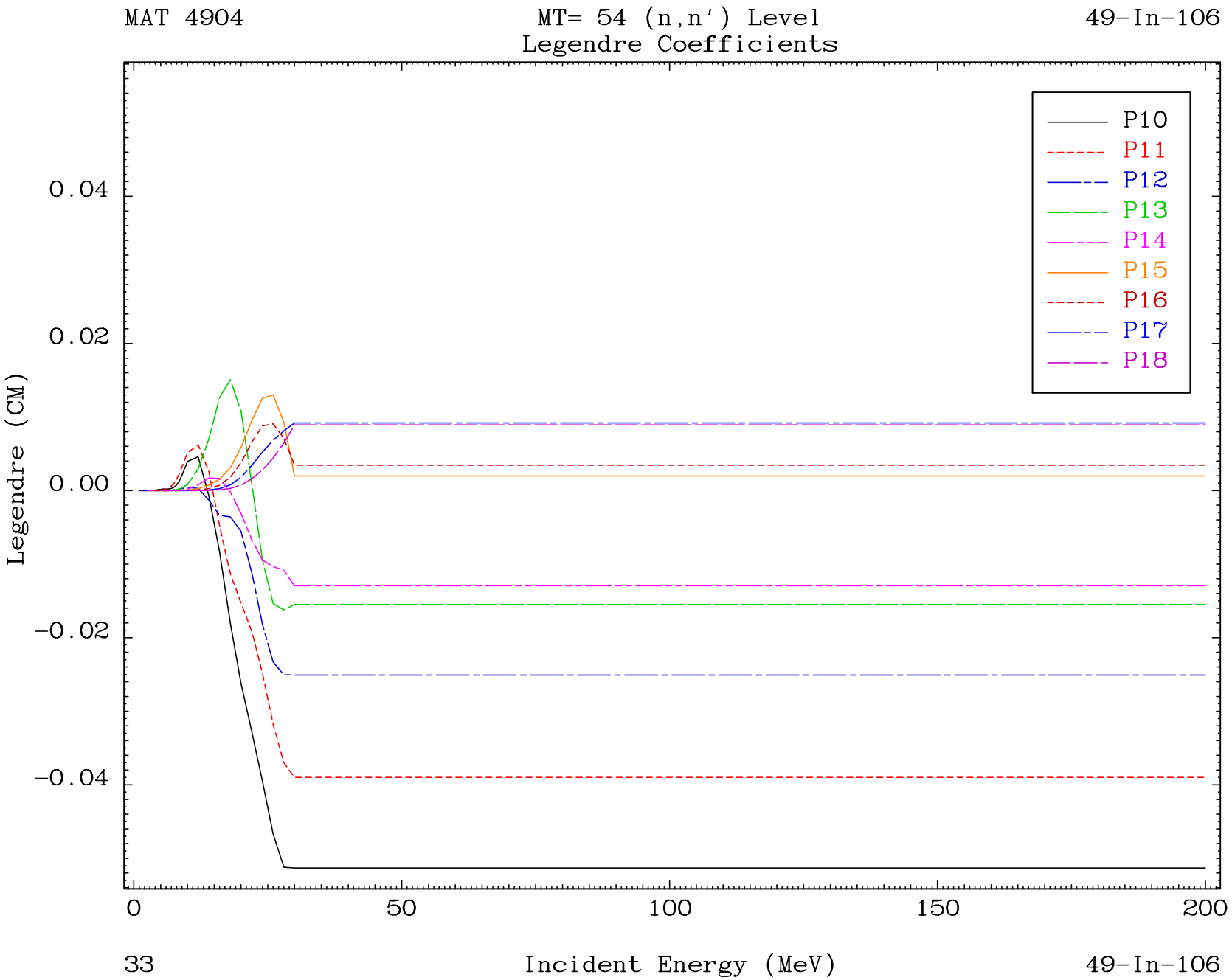

MAT 4904
MT= 52 (n,n') Level
Legendre Coefficients
49-In-106
0.0
X10^-6
-0.5
-1.0
-1.5
-2.0
-2.5
Legendre (CM)
50
100
150
200
28
Incident Energy (MeV)
49-In-106
P17
P18
P19
P20
P21
P22
P23
P24

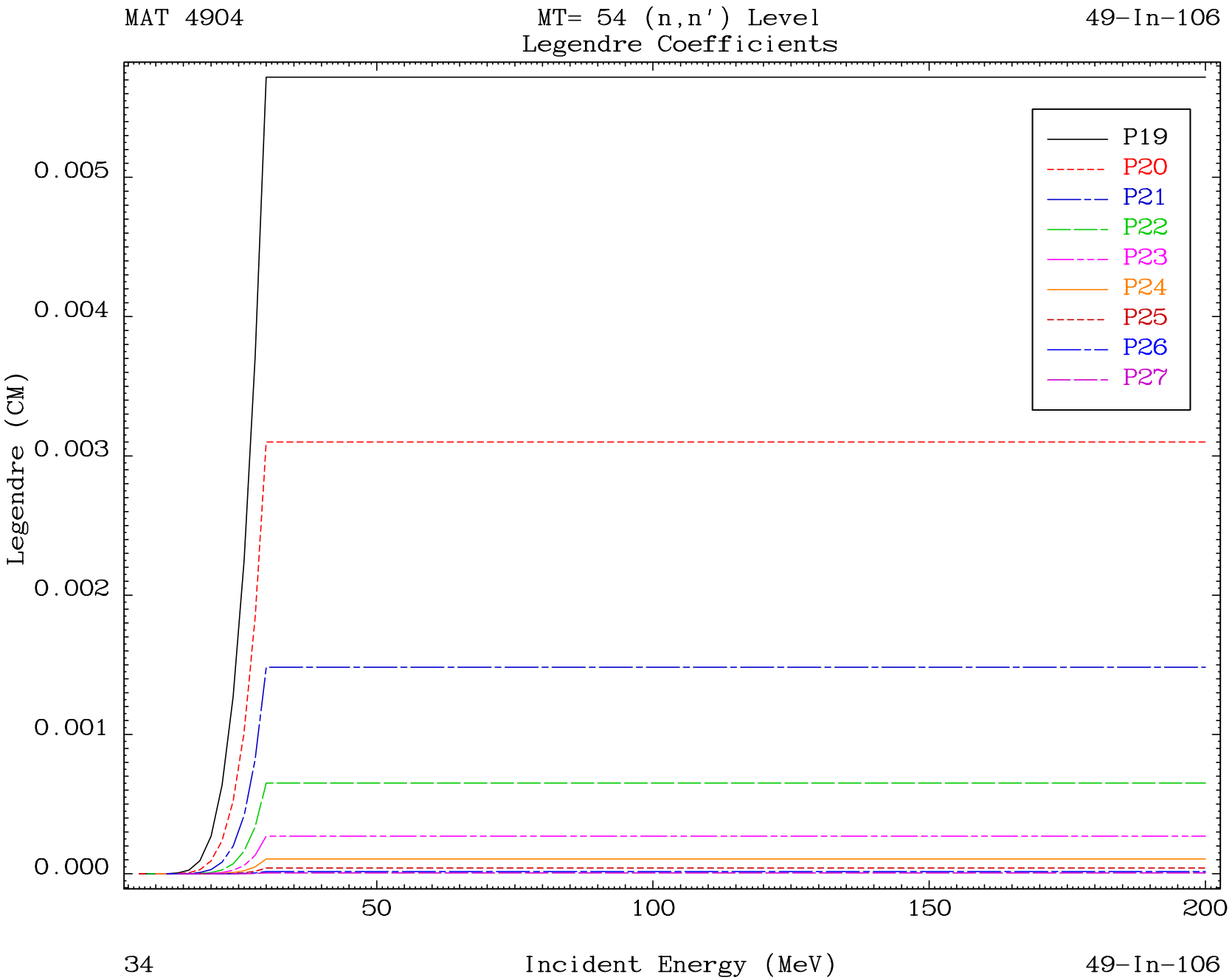

MAT 4904
MT= 53 (n,n') Level
Legendre Coefficients
49-In-106
Legendre (CM)
0.04
0.03
0.02
0.01
0.00
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
29
Incident Energy (MeV)
49-In-106

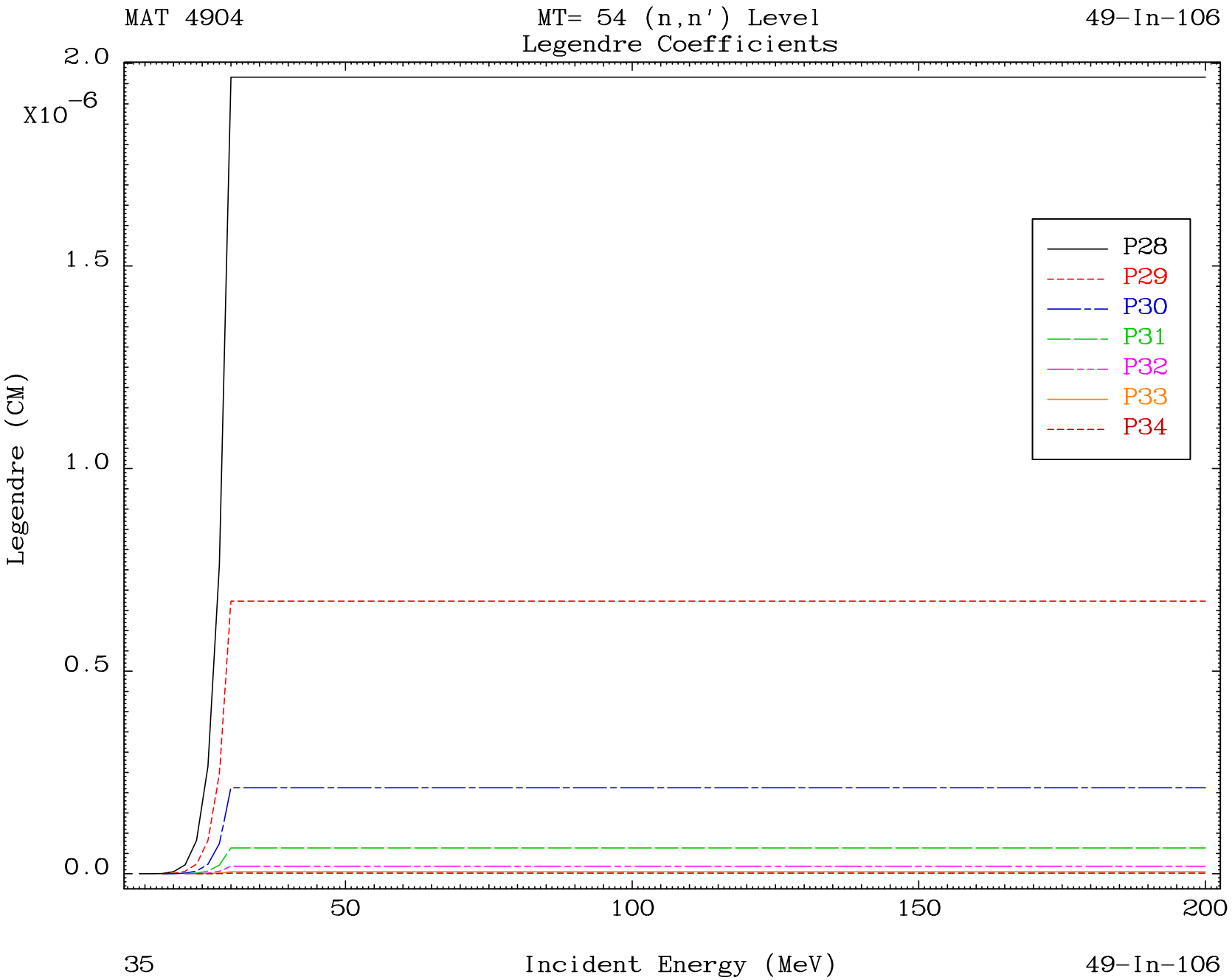

MAT 4904
MT= 53 (n,n') Level
Legendre Coefficients
49-In-106
X10^-4
4
3
2
1
0
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
30
Incident Energy (MeV)
49-In-106

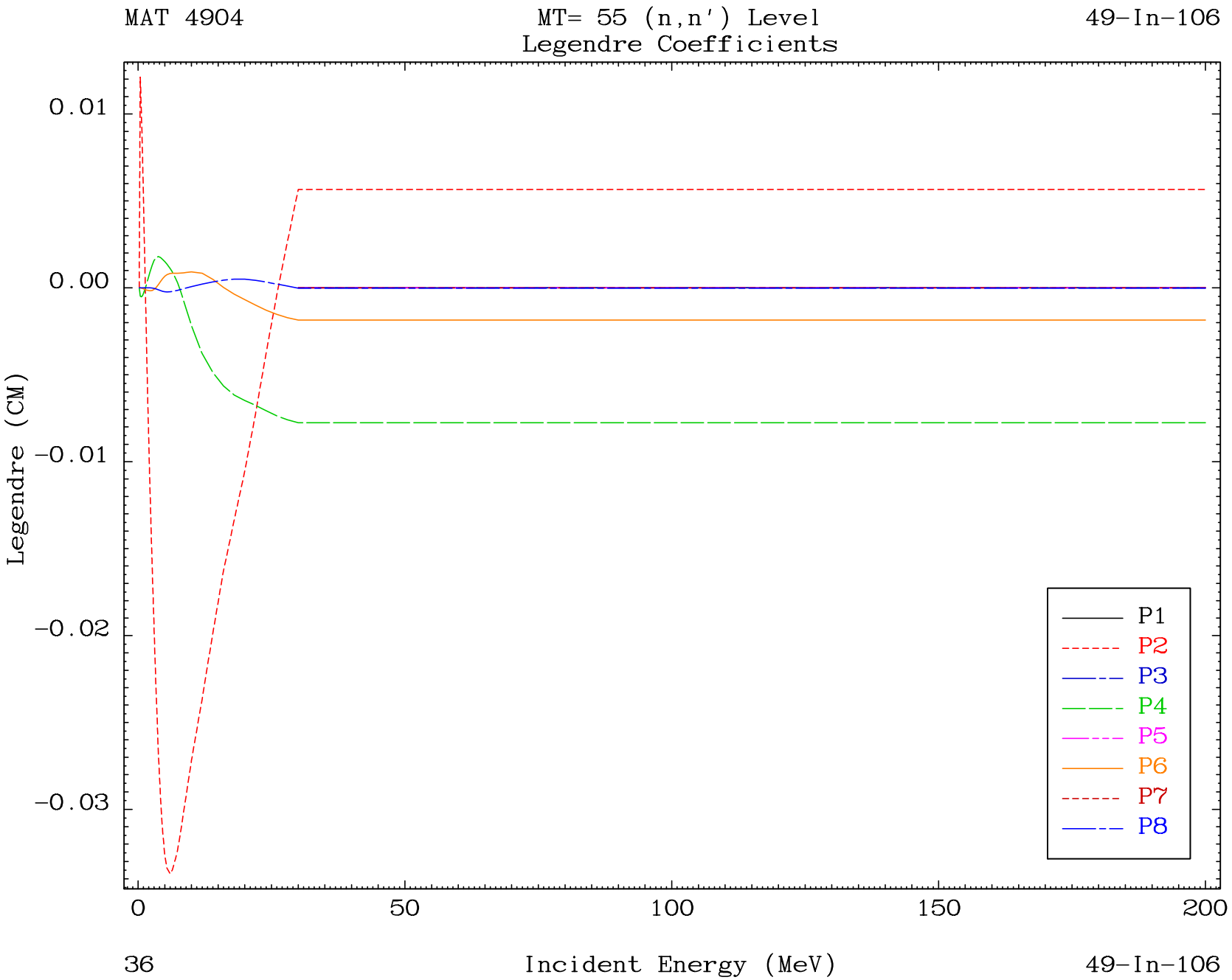

MAT 4904
MT= 53 (n,n') Level
Legendre Coefficients
49-In-106
X10^-7
3
2
1
0
Legendre (CM)
50
100
150
200
31
Incident Energy (MeV)
49-In-106
P19
P20
P21
P22
P23
P24
P25
P26

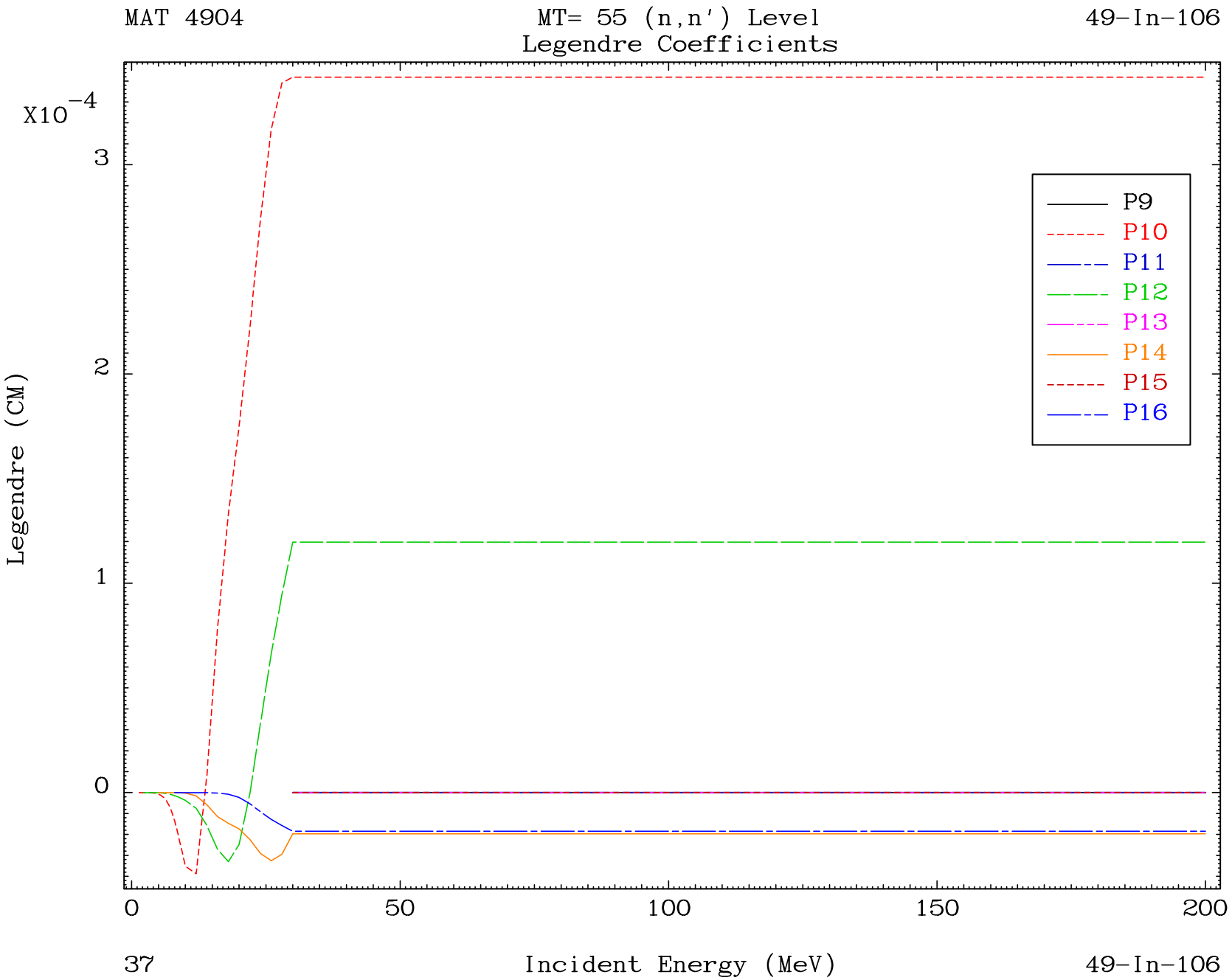

MAT 4904
MT= 54 (n,n') Level
Legendre Coefficients
49-In-106
0.5
0.4
0.3
0.2
0.1
0.0
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
32
Incident Energy (MeV)
49-In-106

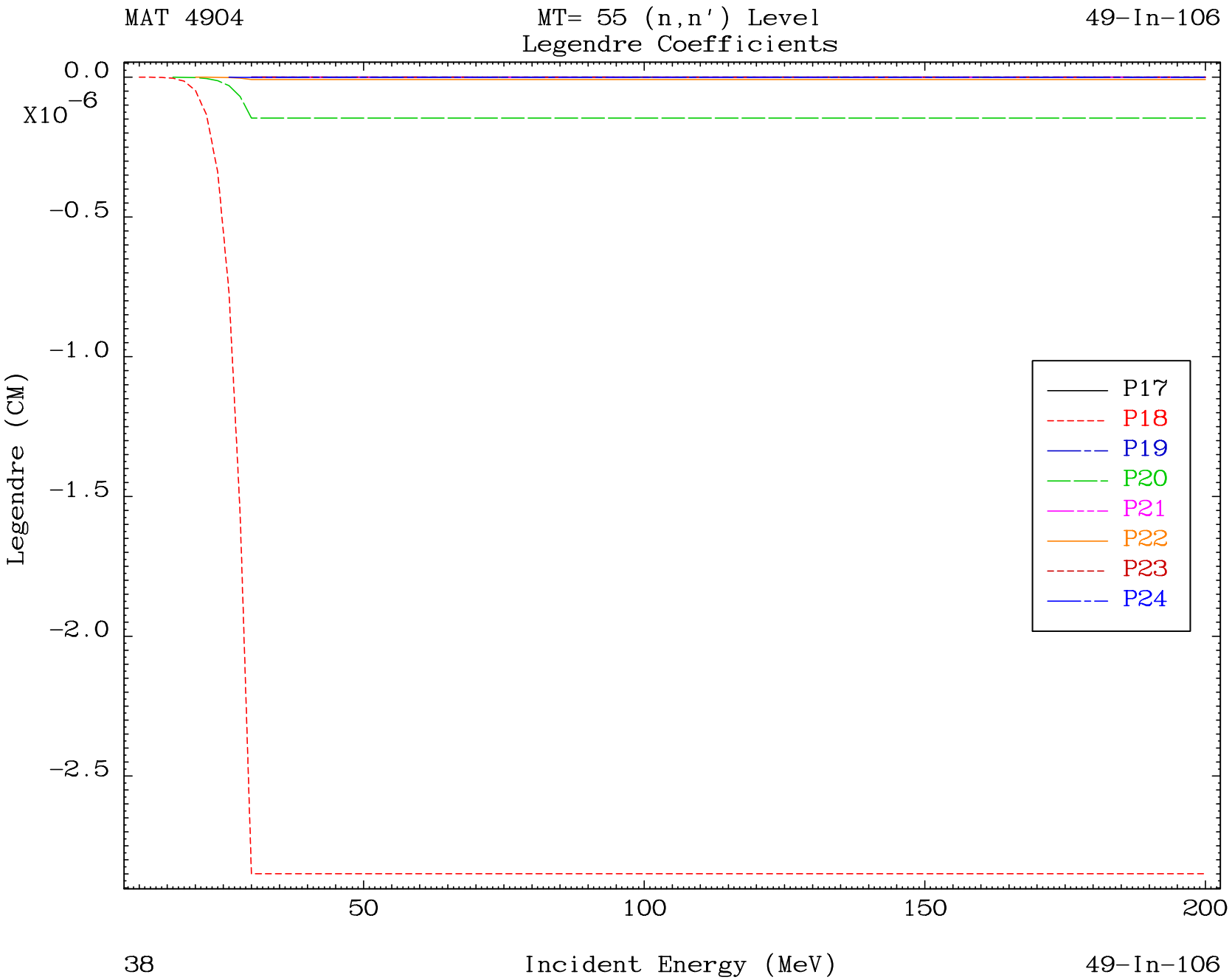

MAT 4904
MT= 54 (n,n') Level
Legendre Coefficients
49-In-106
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.04
0.02
0.00
-0.02
-0.04
Legendre (CM)
0
50
100
150
200
33
Incident Energy (MeV)
49-In-106

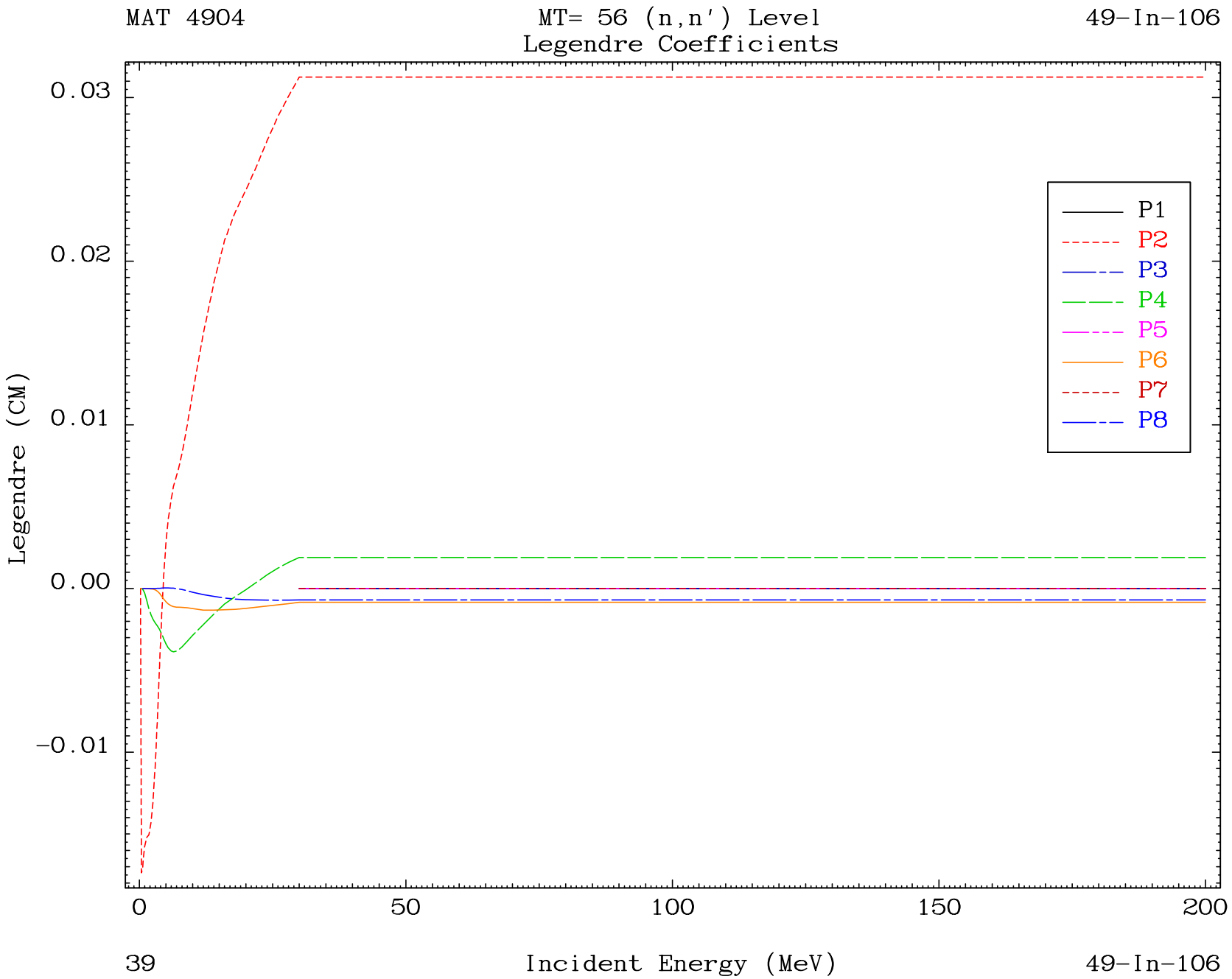

MAT 4904
MT= 54 (n,n') Level
Legendre Coefficients
49-In-106
P19
P20
P21
P22
P23
P24
P25
P26
P27
0.005
0.004
0.003
0.002
0.001
0.000
Legendre (CM)
50
100
150
200
34
Incident Energy (MeV)
49-In-106

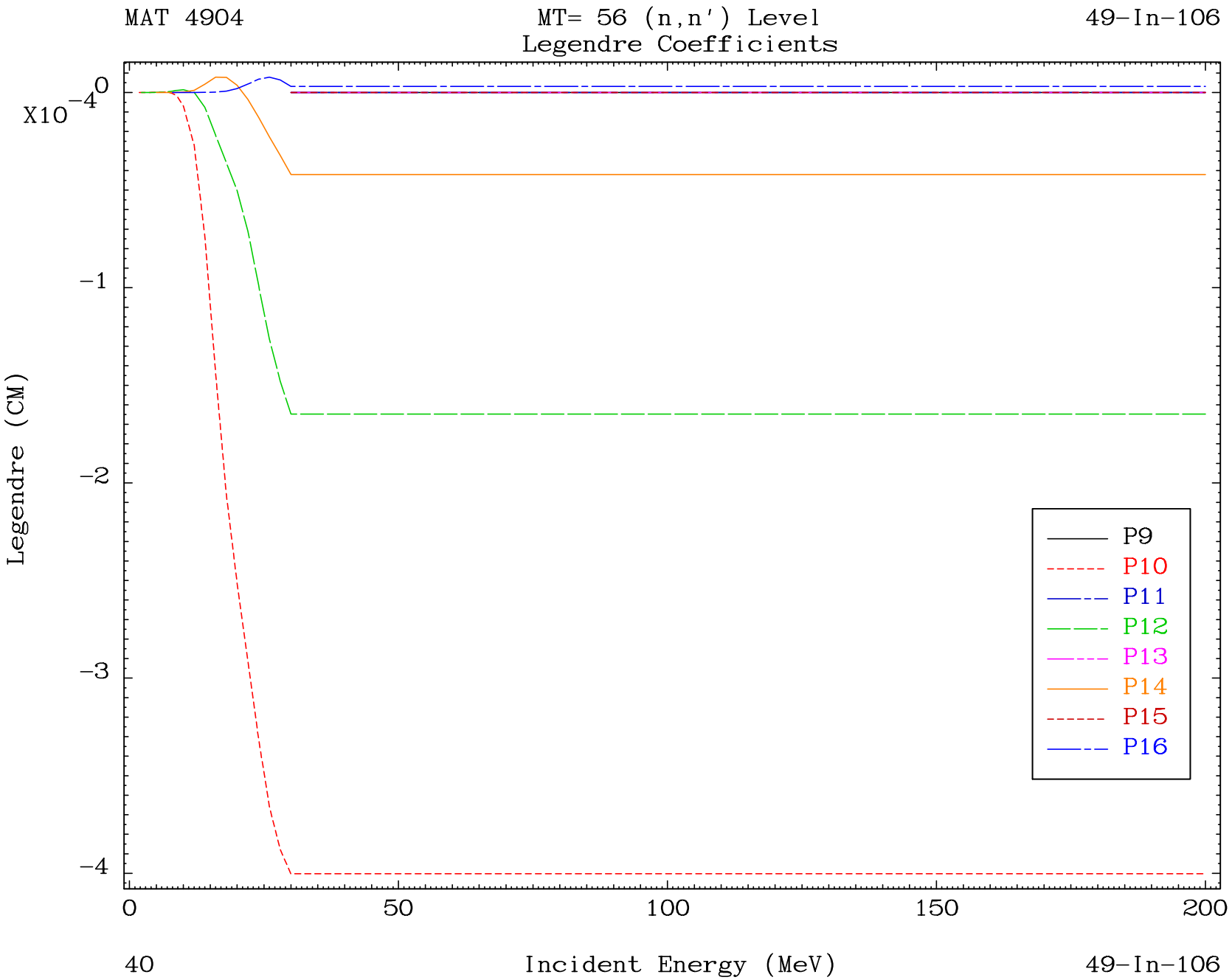

MAT 4904
MT= 54 (n,n') Level
Legendre Coefficients
49-In-106
2.0
X10^-6
1.5
1.0
0.5
0.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
35
Incident Energy (MeV)
49-In-106

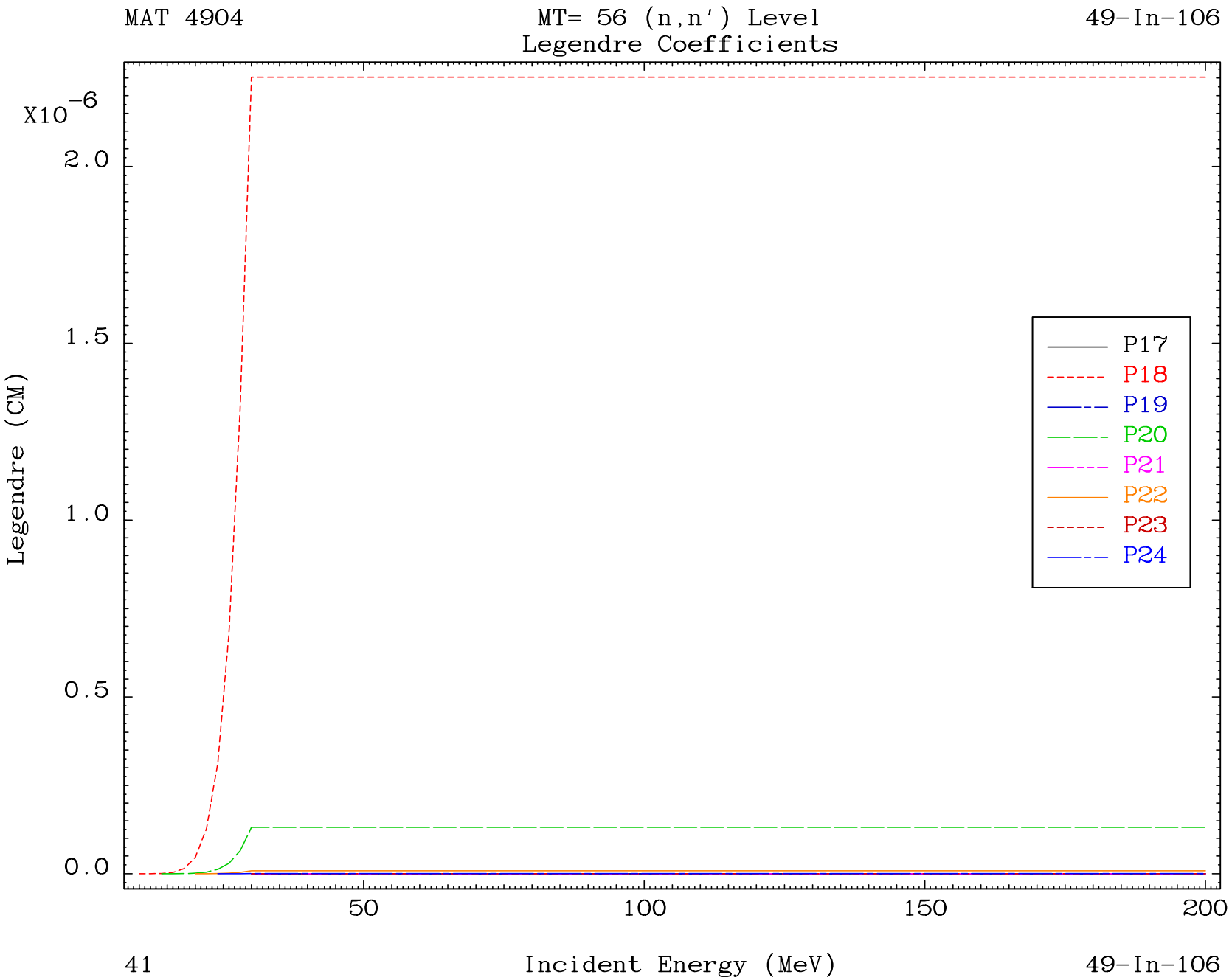

MAT 4904
MT= 55 (n,n') Level
Legendre Coefficients
49-In-106
0.01
0.00
-0.01
-0.02
-0.03
Legendre (CM)
0
50
100
150
200
36
Incident Energy (MeV)
49-In-106
P1
P2
P3
P4
P5
P6
P7
P8

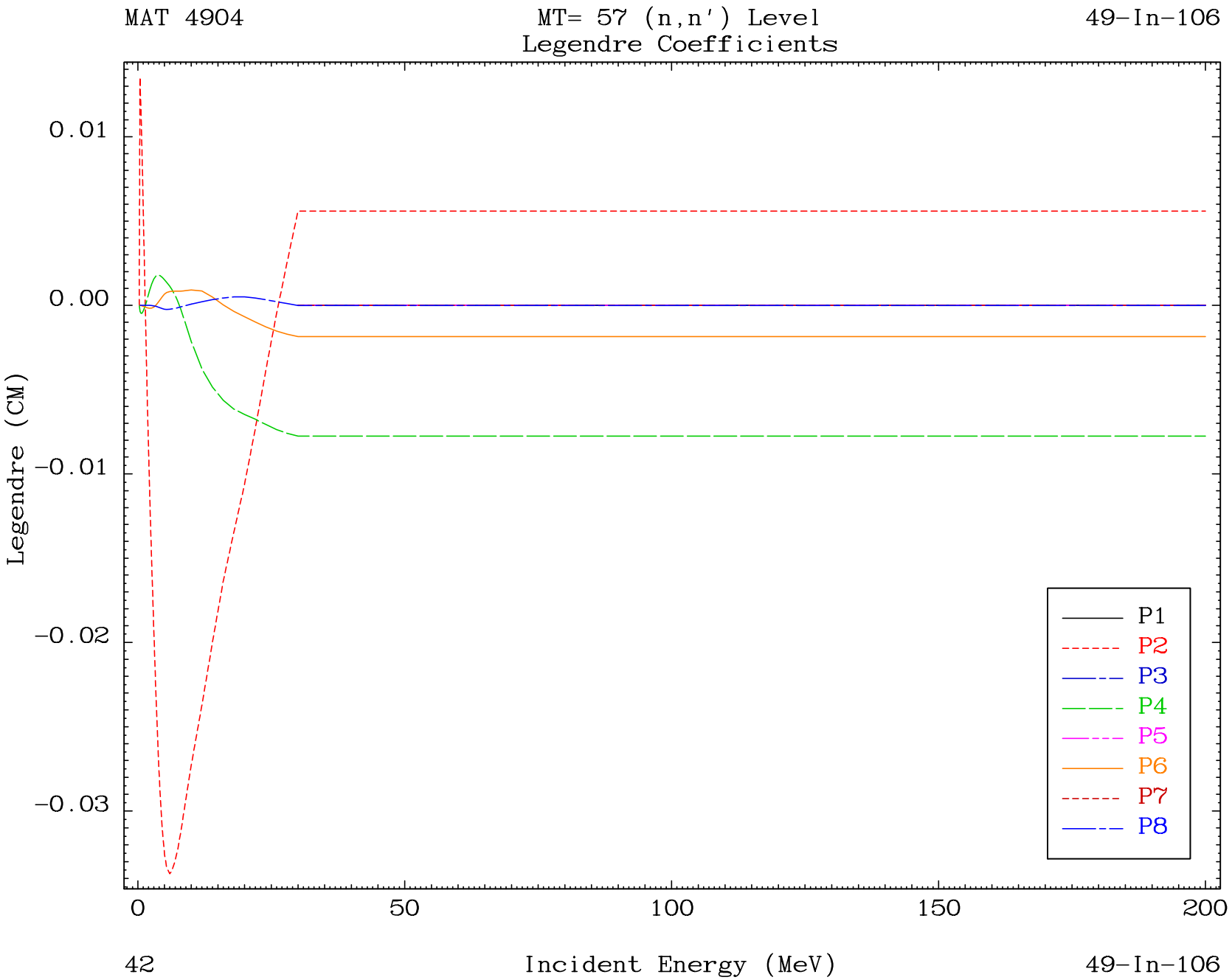

MAT 4904
MT= 55 (n,n') Level
Legendre Coefficients
49-In-106
X10^-4
3
2
1
0
Legendre (CM)
P9
P10
P11
P12
P13
P14
P15
P16
0
50
100
150
200
37
Incident Energy (MeV)
49-In-106

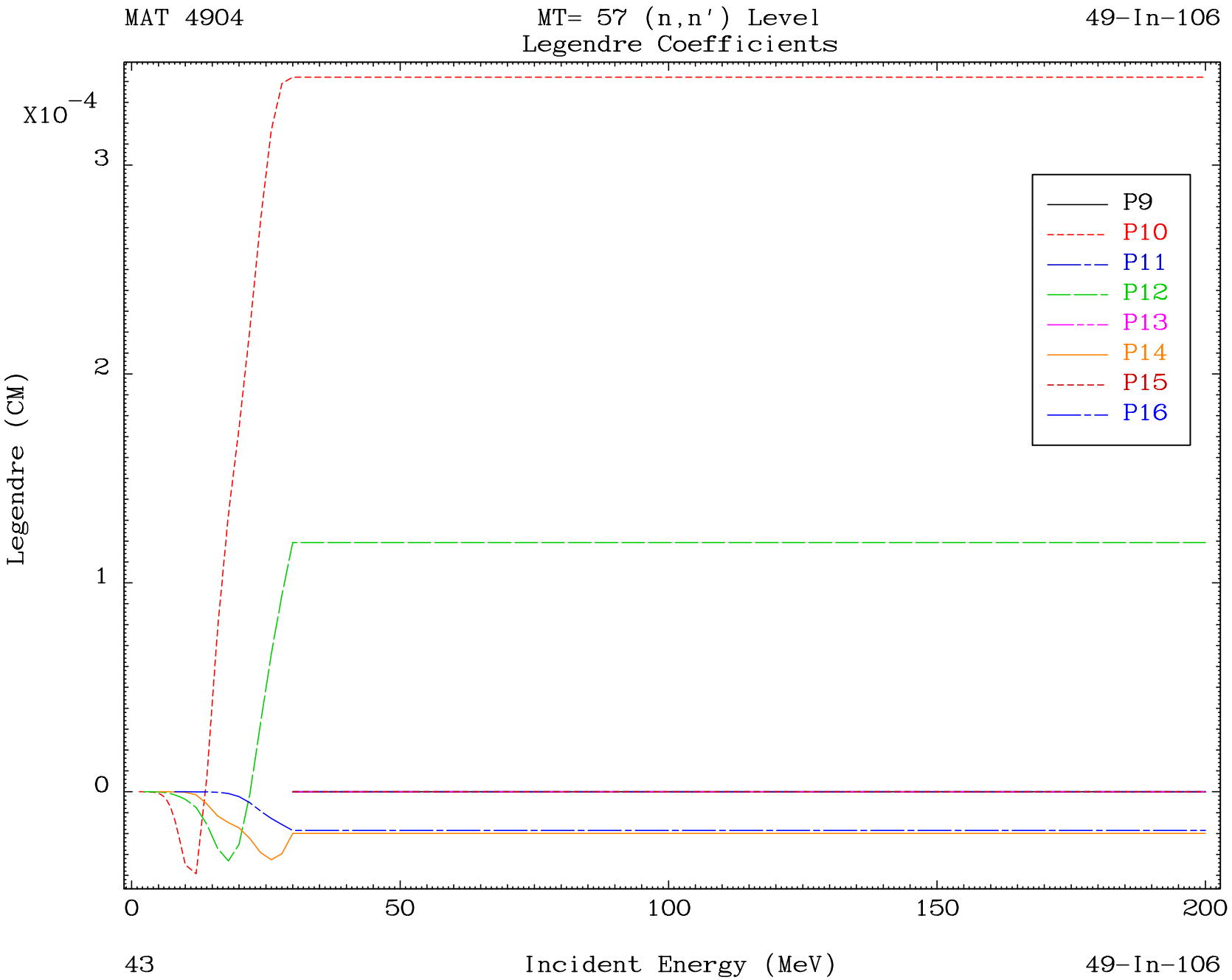

MAT 4904
MT= 55 (n,n') Level
Legendre Coefficients
49-In-106
0.0
X10^-6
-0.5
-1.0
-1.5
-2.0
-2.5
Legendre (CM)
50
100
150
200
P17
P18
P19
P20
P21
P22
P23
P24
38
Incident Energy (MeV)
49-In-106

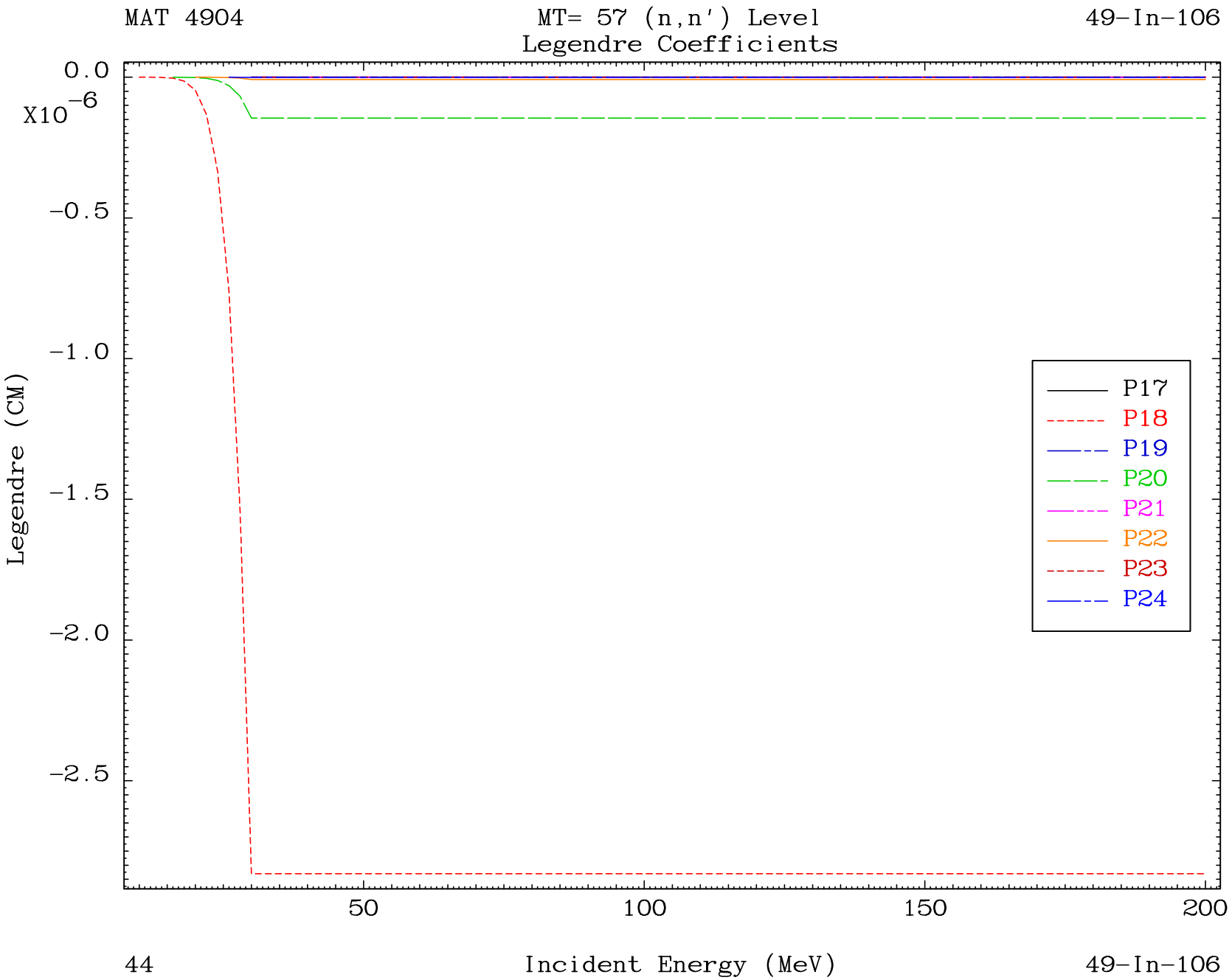

MAT 4904
MT= 56 (n,n') Level
Legendre Coefficients
49-In-106
0.03
0.02
0.01
0.00
-0.01
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
0
50
100
150
200
39
Incident Energy (MeV)
49-In-106

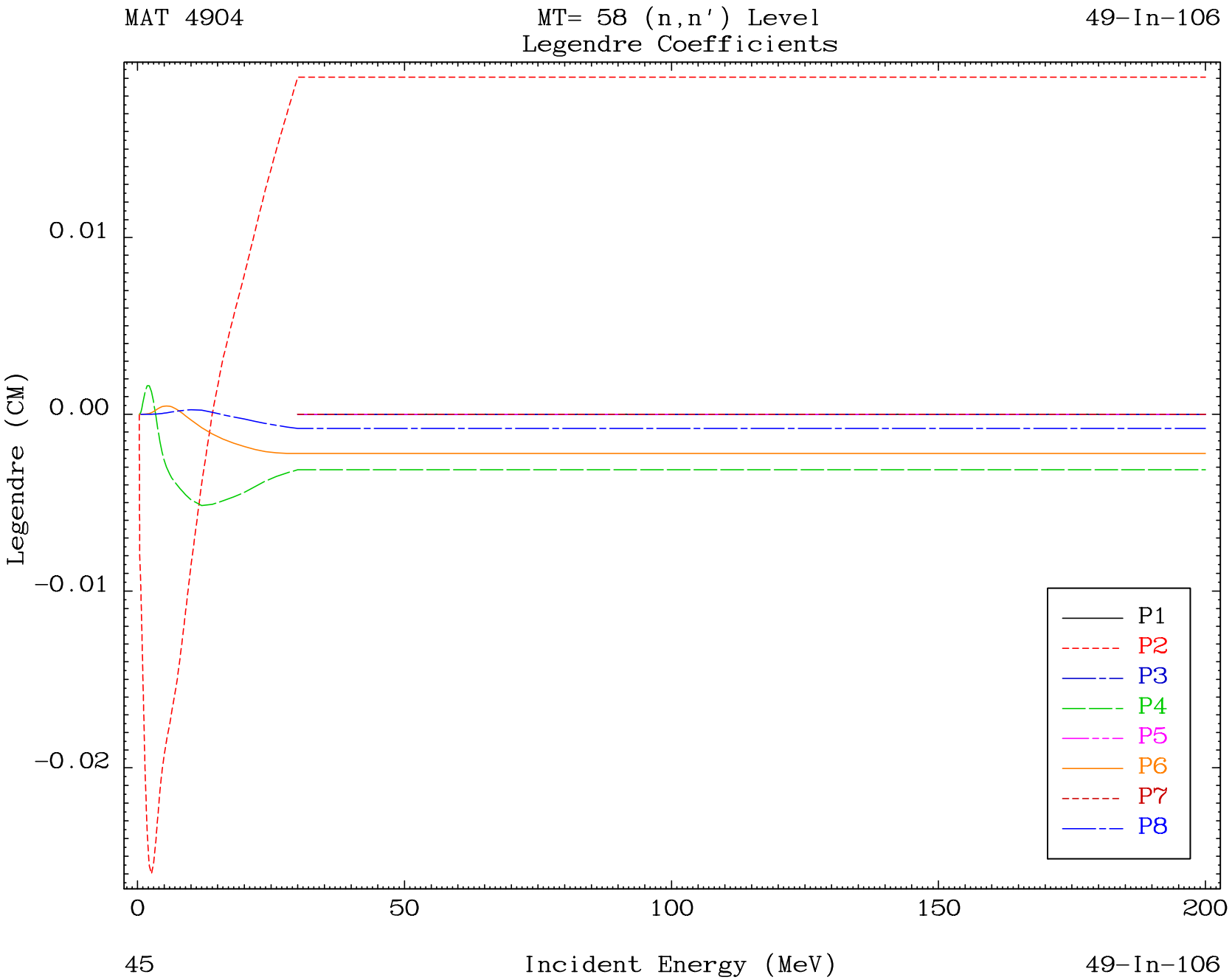

MAT 4904
MT= 56 (n,n') Level
Legendre Coefficients
49-In-106
X10 -4
0
-1
-2
-3
-4
Legendre (CM)
0
50
100
150
200
40
Incident Energy (MeV)
49-In-106
P9
P10
P11
P12
P13
P14
P15
P16

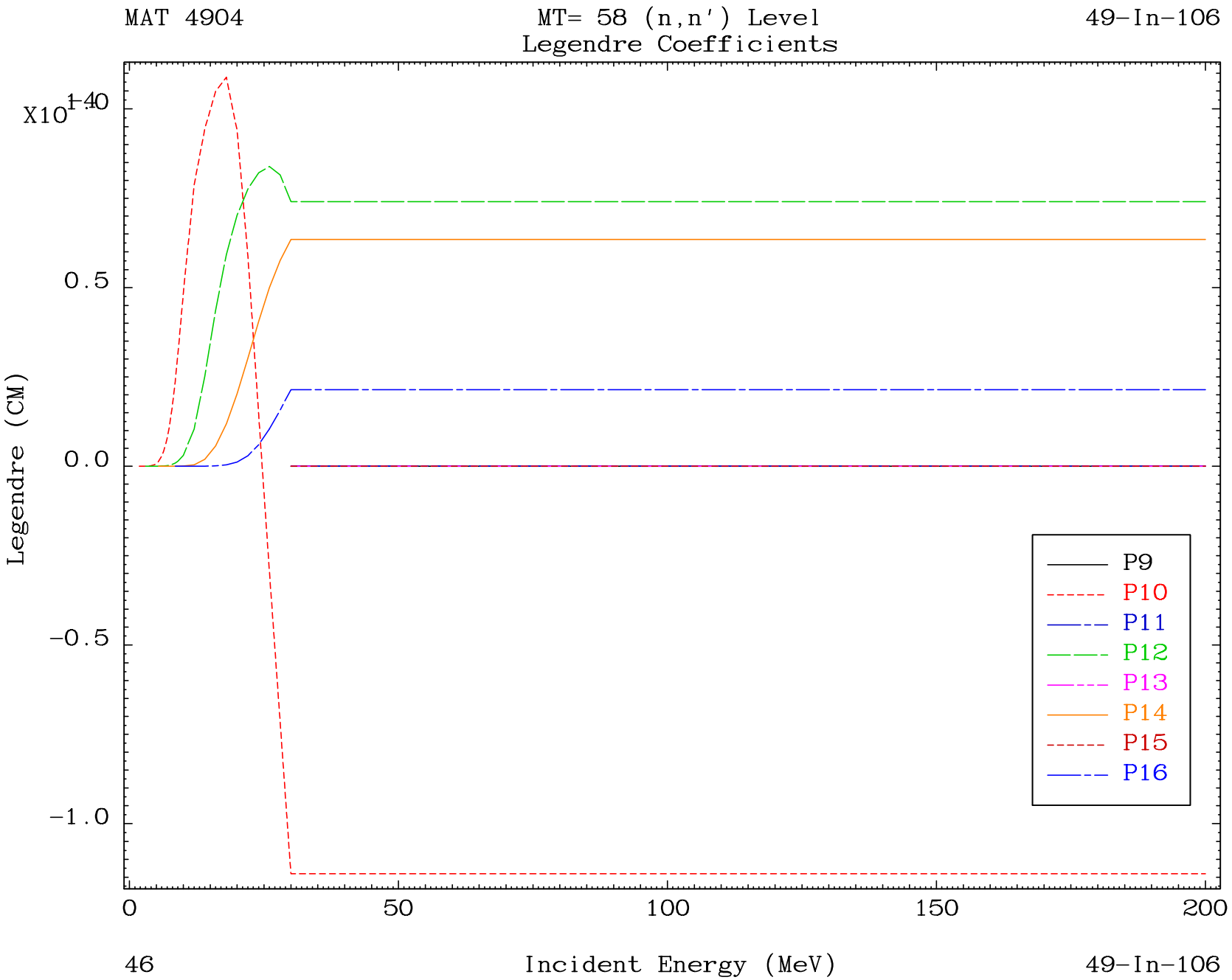

MAT 4904
MT= 56 (n,n') Level
Legendre Coefficients
49-In-106
X10^-6
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P17
P18
P19
P20
P21
P22
P23
P24
50
100
150
200
41
Incident Energy (MeV)
49-In-106

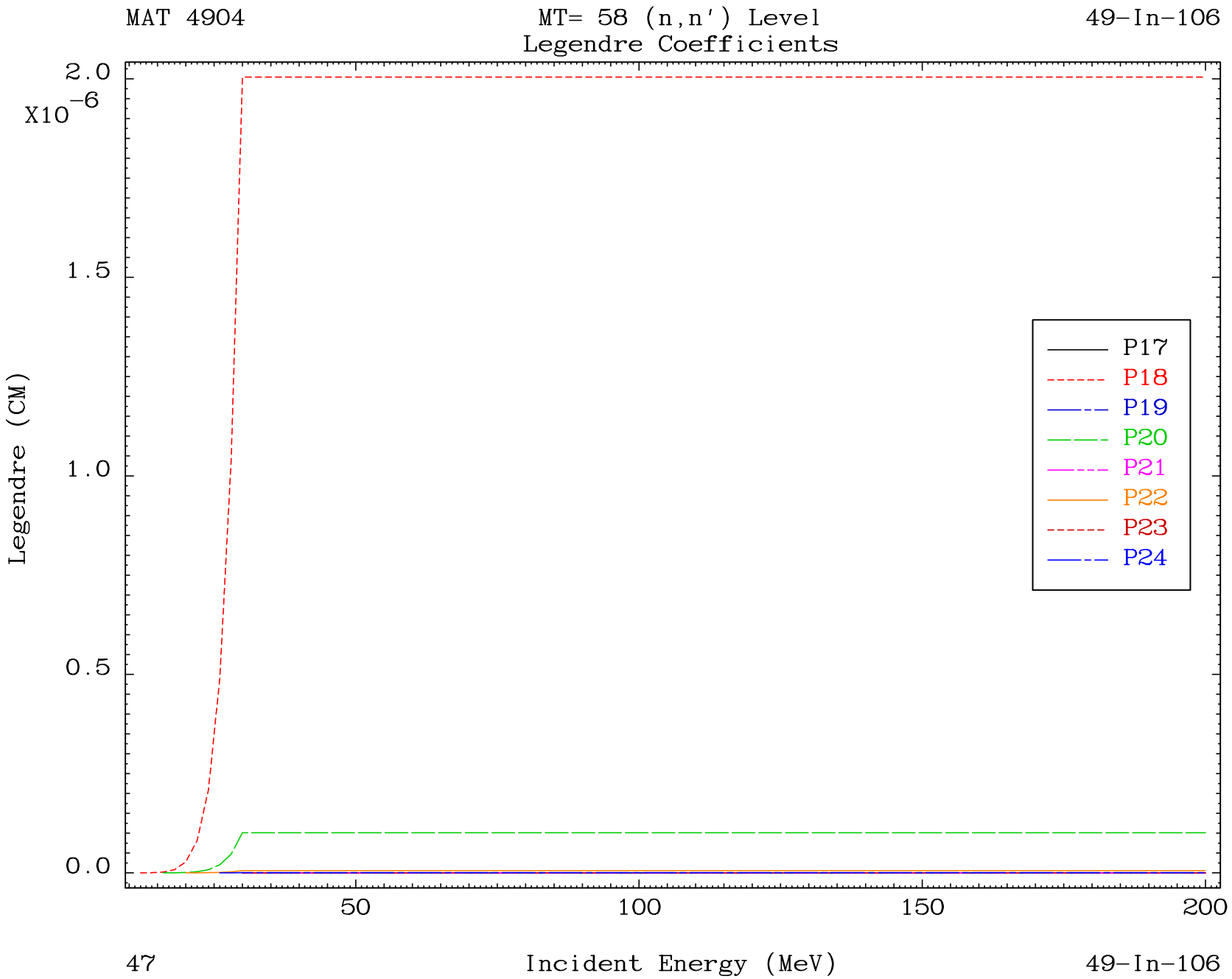

MAT 4904
MT= 57 (n,n') Level
Legendre Coefficients
49-In-106
0.01
0.00
-0.01
-0.02
-0.03
Legendre (CM)
0
50
100
150
200
42
Incident Energy (MeV)
49-In-106
P1
P2
P3
P4
P5
P6
P7
P8

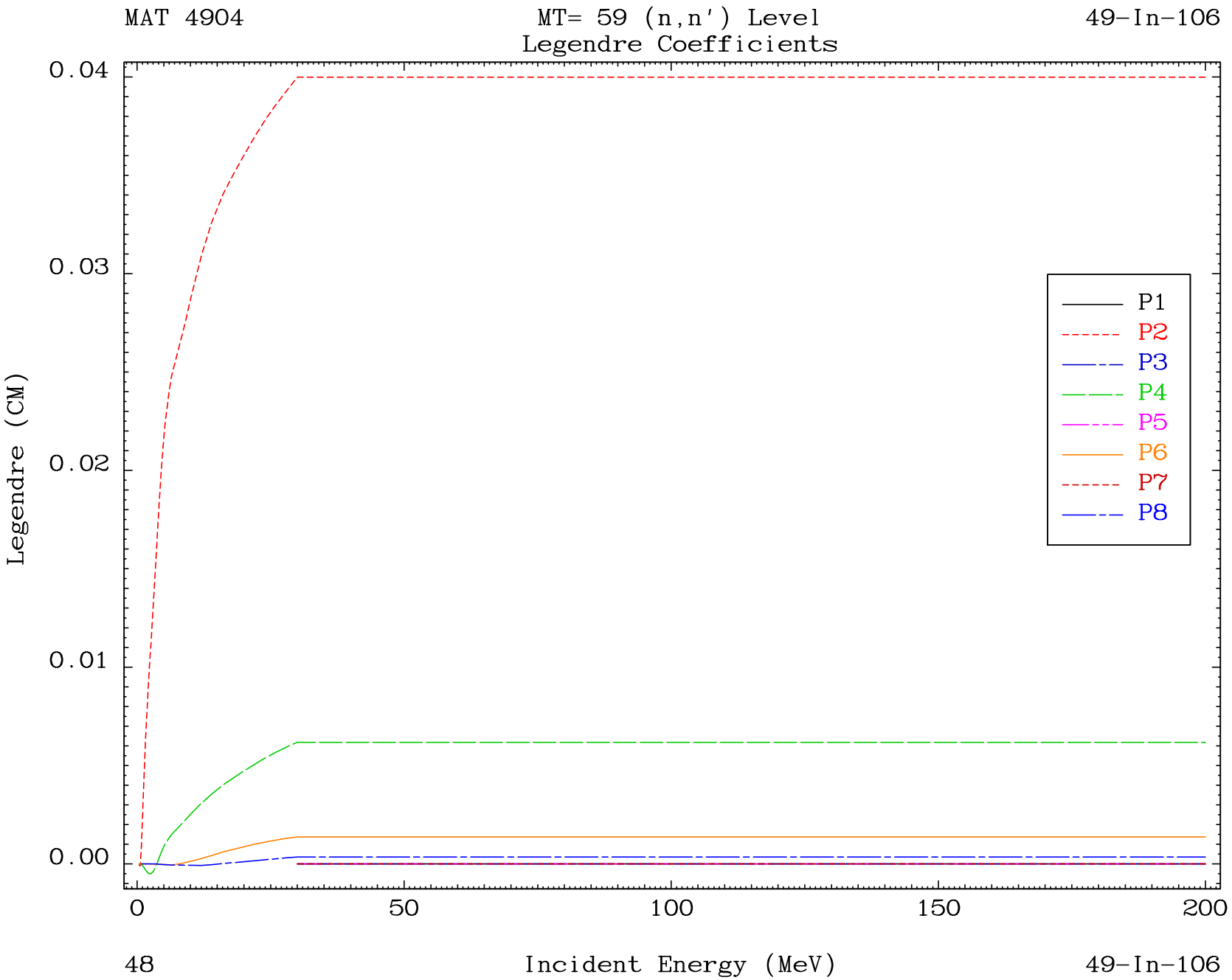

MAT 4904
MT= 57 (n,n') Level
Legendre Coefficients
49-In-106
X10^-4
3
2
1
0
Legendre (CM)
P9
P10
P11
P12
P13
P14
P15
P16
0
50
100
150
200
43
Incident Energy (MeV)
49-In-106

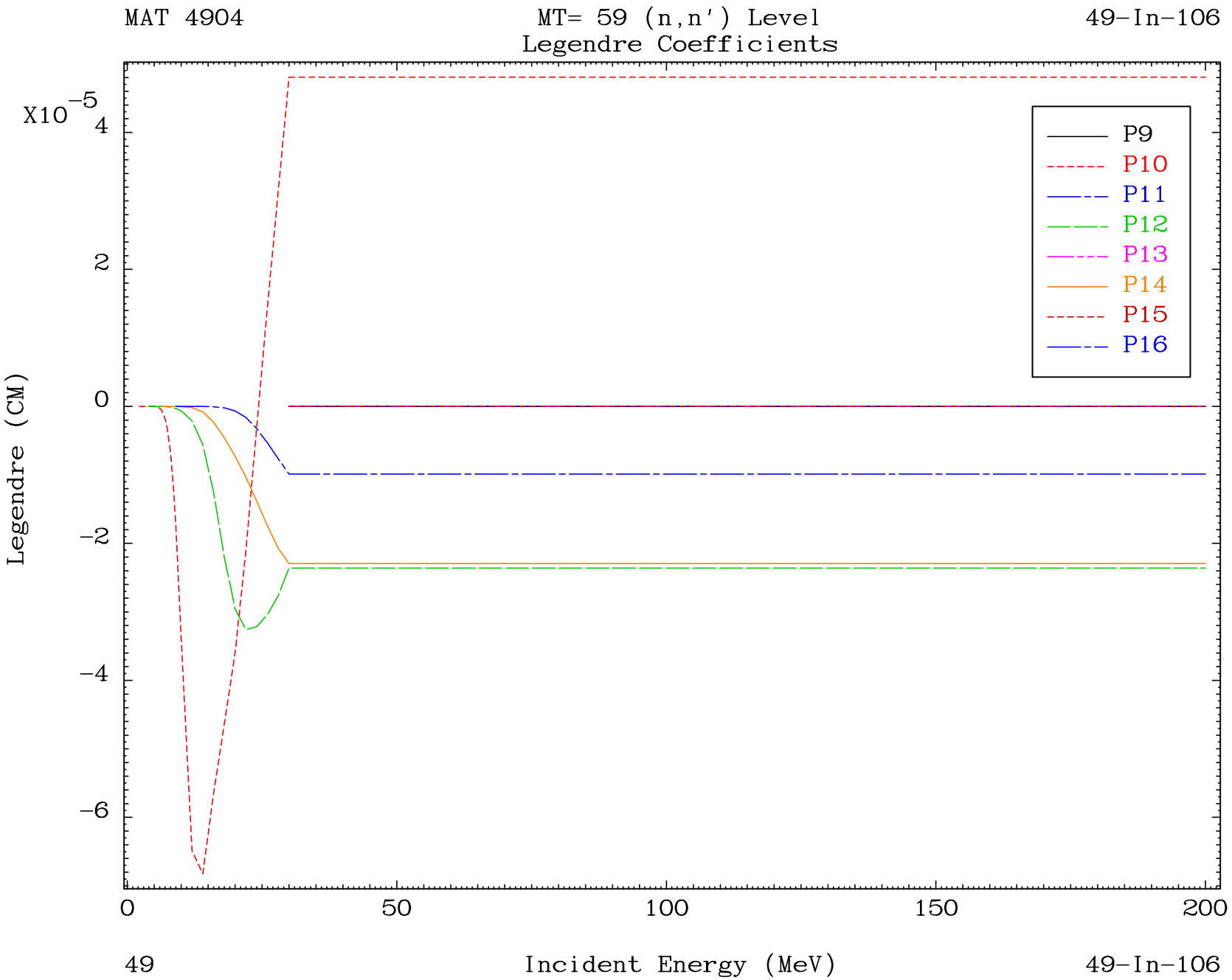

MAT 4904
MT= 57 (n,n') Level
Legendre Coefficients
49-In-106
0.0
X10^-6
-0.5
-1.0
-1.5
-2.0
-2.5
Legendre (CM)
50
100
150
200
P17
P18
P19
P20
P21
P22
P23
P24
44
Incident Energy (MeV)
49-In-106

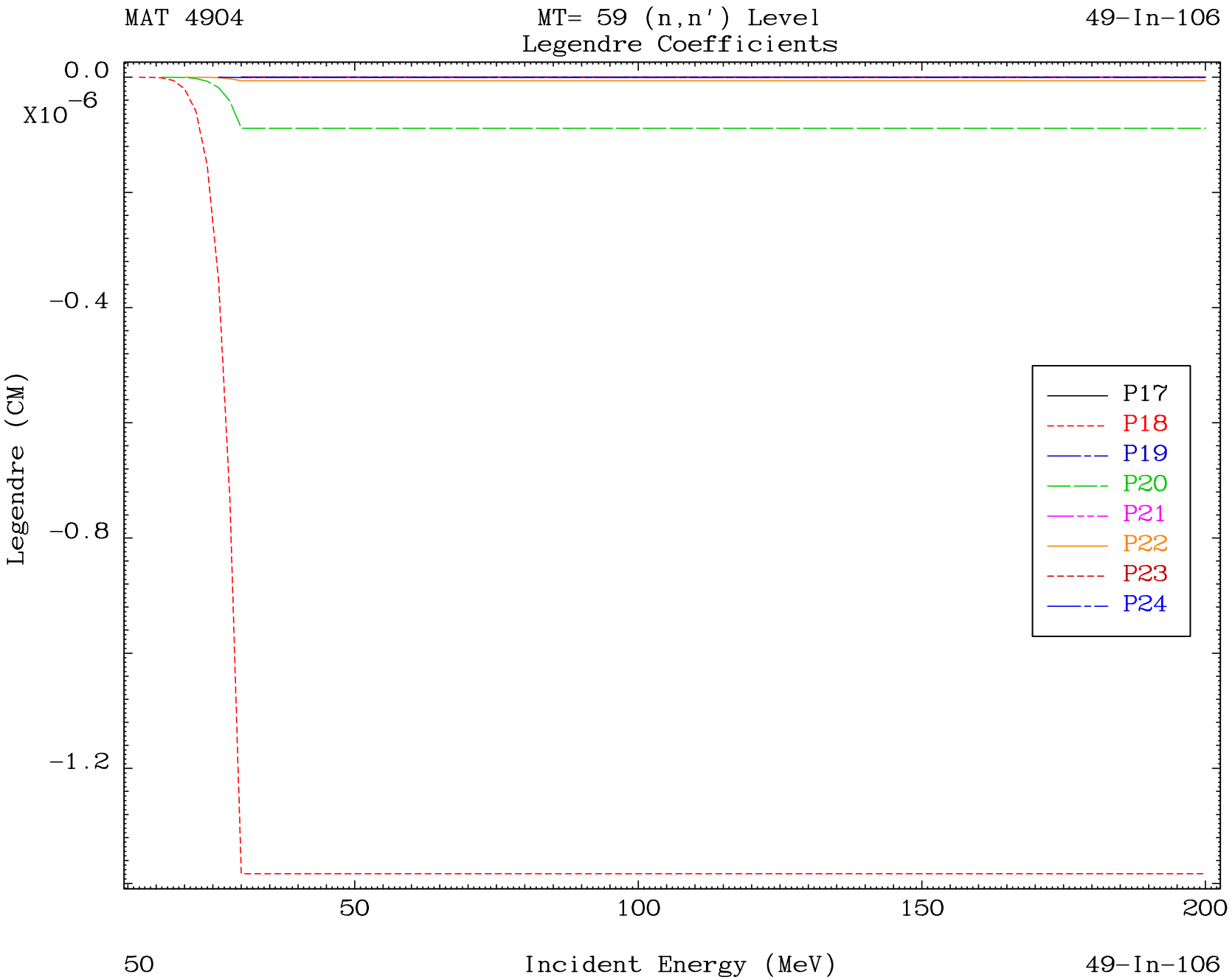

MAT 4904
MT= 58 (n,n') Level
Legendre Coefficients
49-In-106
0.01
0.00
-0.01
-0.02
Legendre (CM)
0
50
100
150
200
45
Incident Energy (MeV)
49-In-106
P1
P2
P3
P4
P5
P6
P7
P8

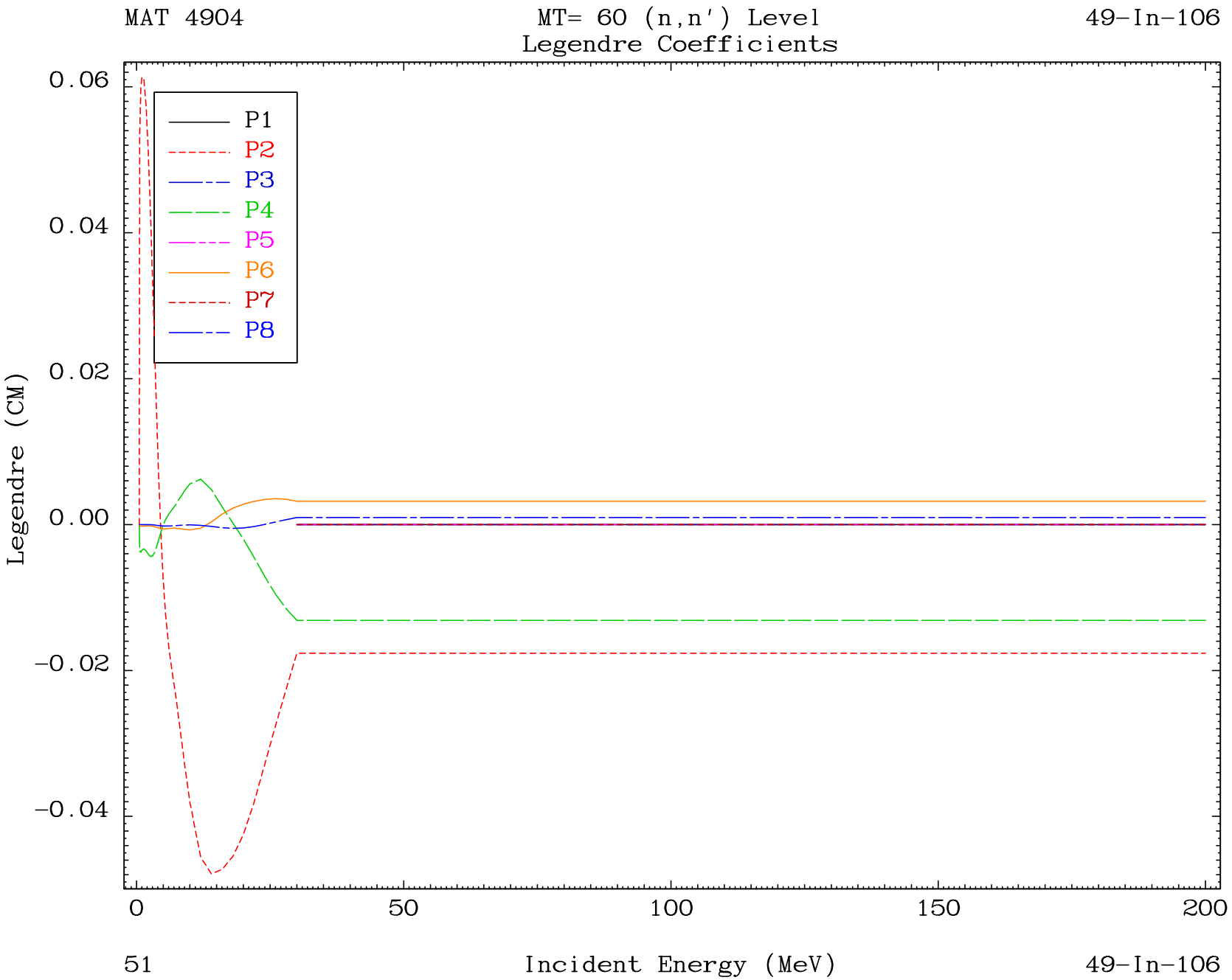

MAT 4904
MT= 58 (n,n') Level
Legendre Coefficients
49-In-106
X10+0
1.0
0.5
0.0
-0.5
-1.0
Legendre (CM)
0
50
100
150
200
46
Incident Energy (MeV)
49-In-106
P9
P10
P11
P12
P13
P14
P15
P16

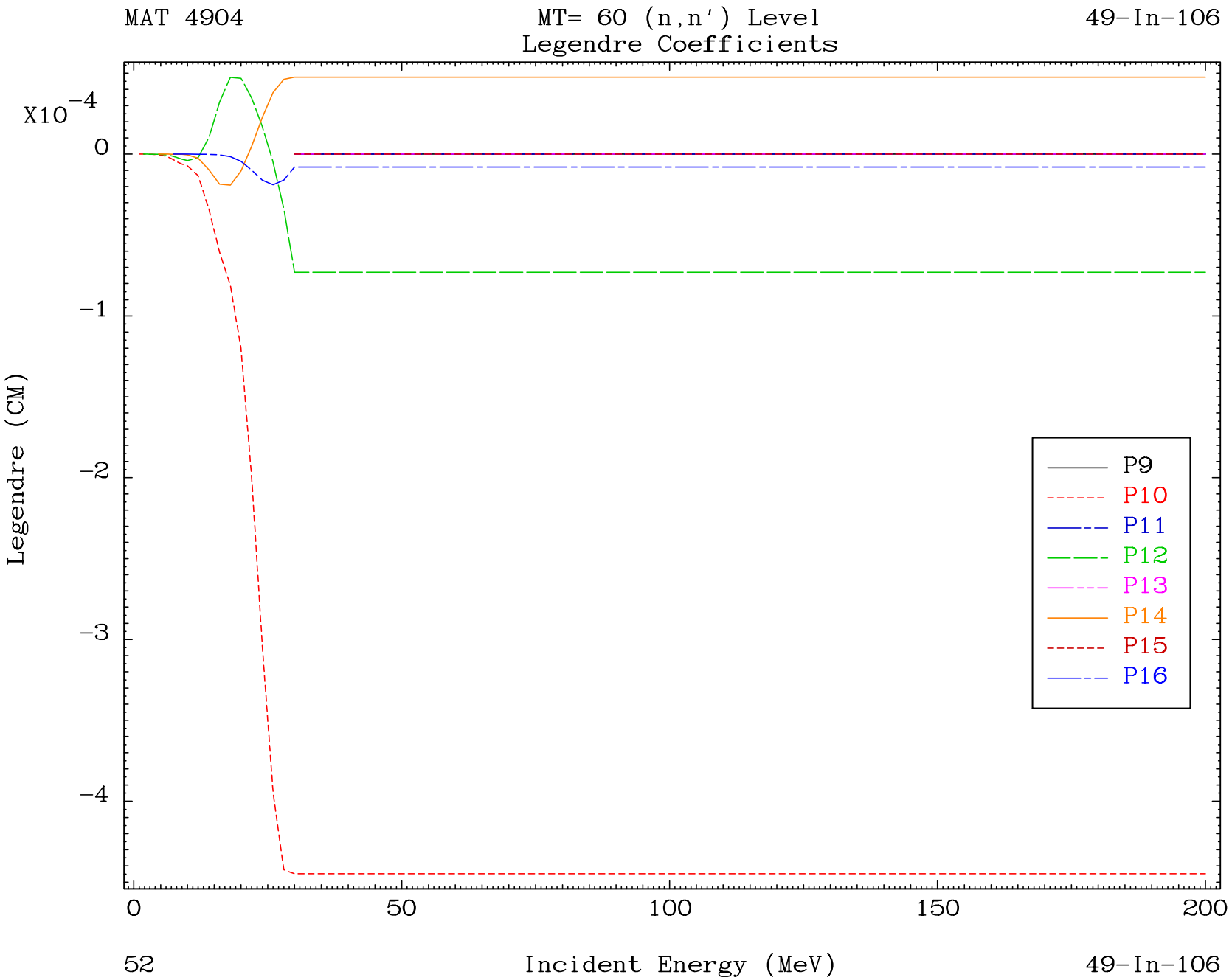

MAT 4904
MT= 58 (n,n') Level
Legendre Coefficients
49-In-106
2.0
X10 −6
1.5
1.0
0.5
0.0
Legendre (CM)
P17
P18
P19
P20
P21
P22
P23
P24
50
100
150
200
47
Incident Energy (MeV)
49-In-106

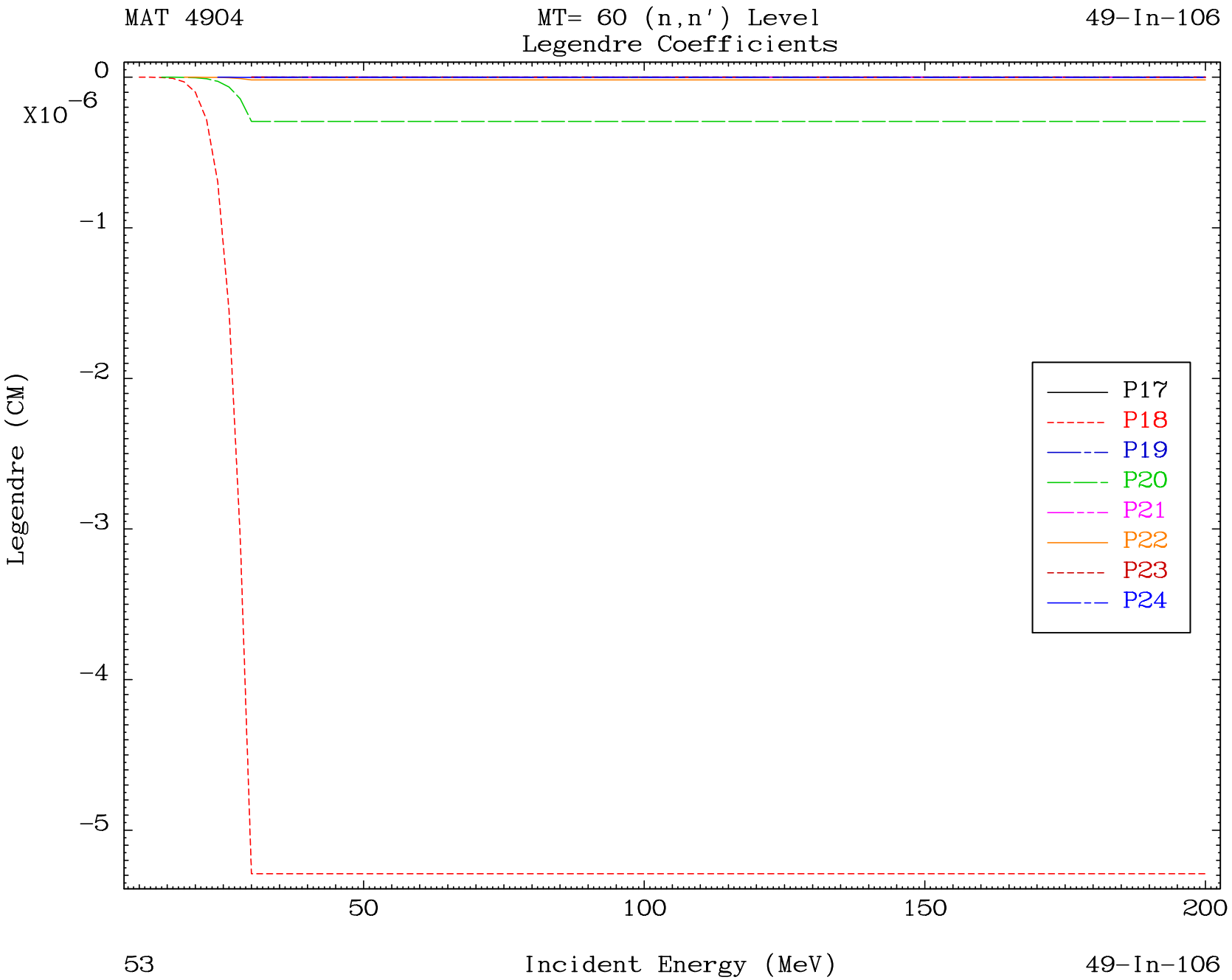

MAT 4904
MT= 59 (n,n') Level
Legendre Coefficients
49-In-106
0.04
0.03
0.02
0.01
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
0
50
100
150
200
48
Incident Energy (MeV)
49-In-106

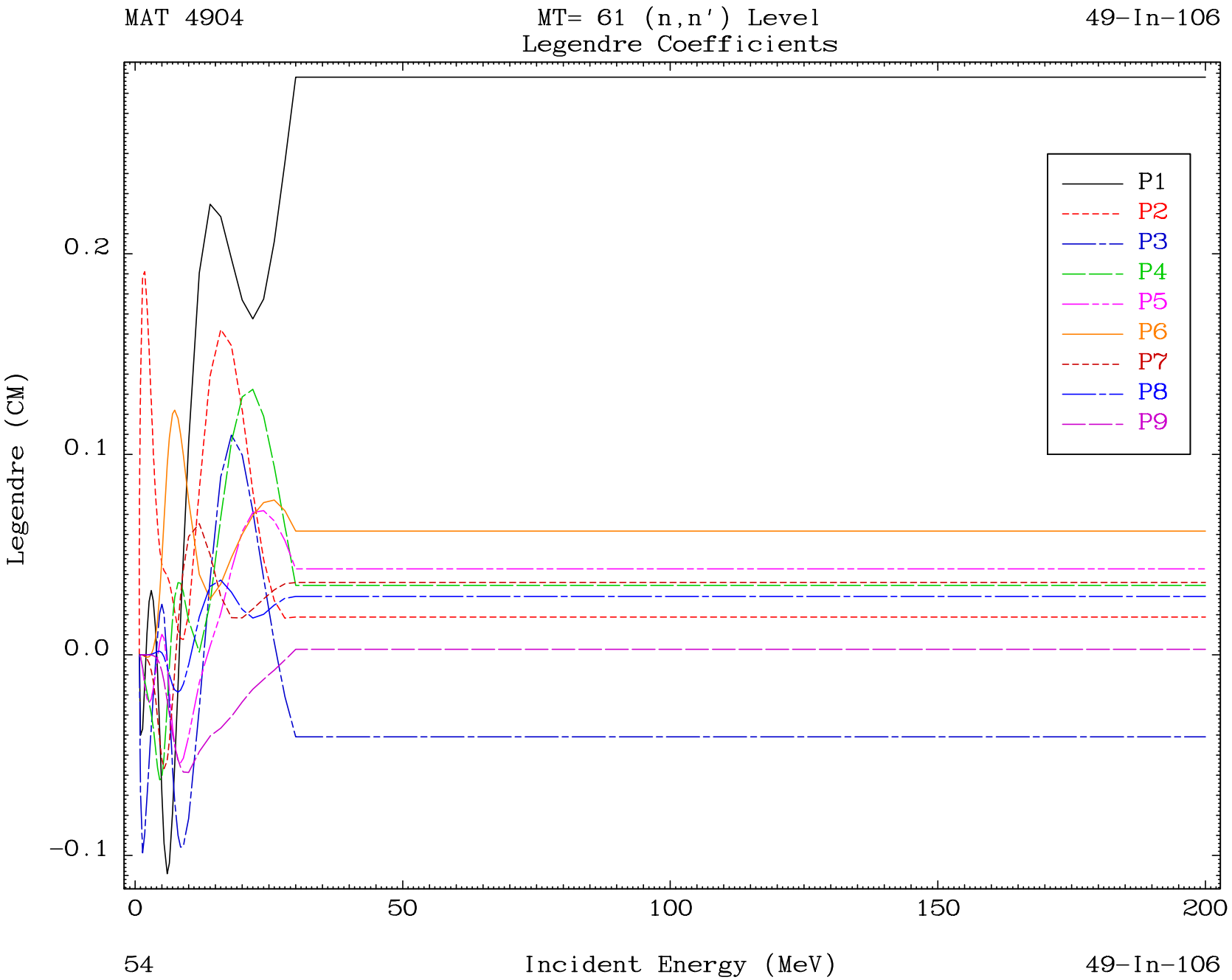

MAT 4904
MT= 59 (n,n') Level
Legendre Coefficients
49-In-106
X10^-5
4
2
0
-2
-4
-6
Legendre (CM)
P9
P10
P11
P12
P13
P14
P15
P16
0
50
100
150
200
49
Incident Energy (MeV)
49-In-106

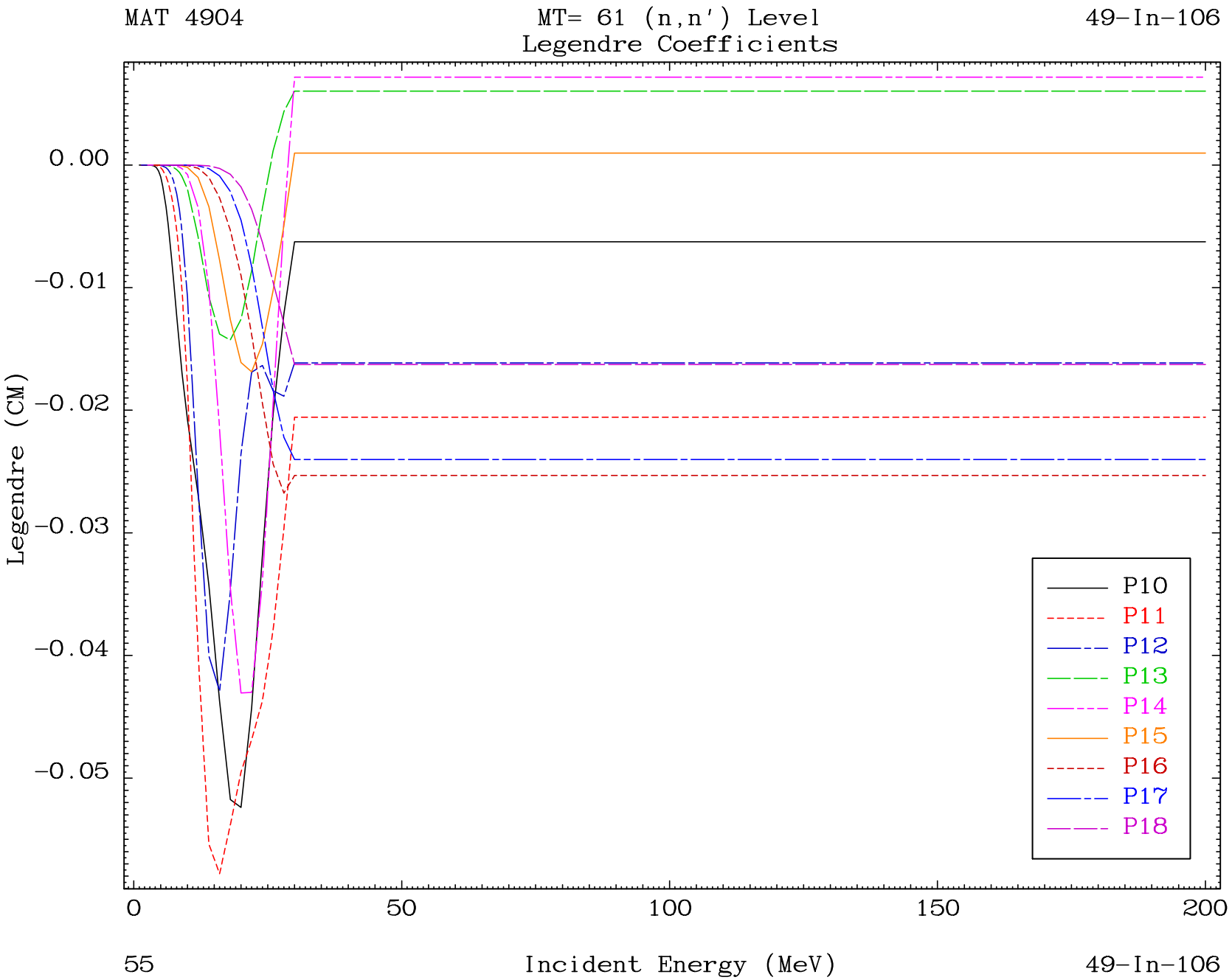

MAT 4904
MT= 59 (n,n') Level
Legendre Coefficients
49-In-106
0.0
X10^-6
-0.4
-0.8
-1.2
Legendre (CM)
50
100
150
200
50
Incident Energy (MeV)
49-In-106
P17
P18
P19
P20
P21
P22
P23
P24

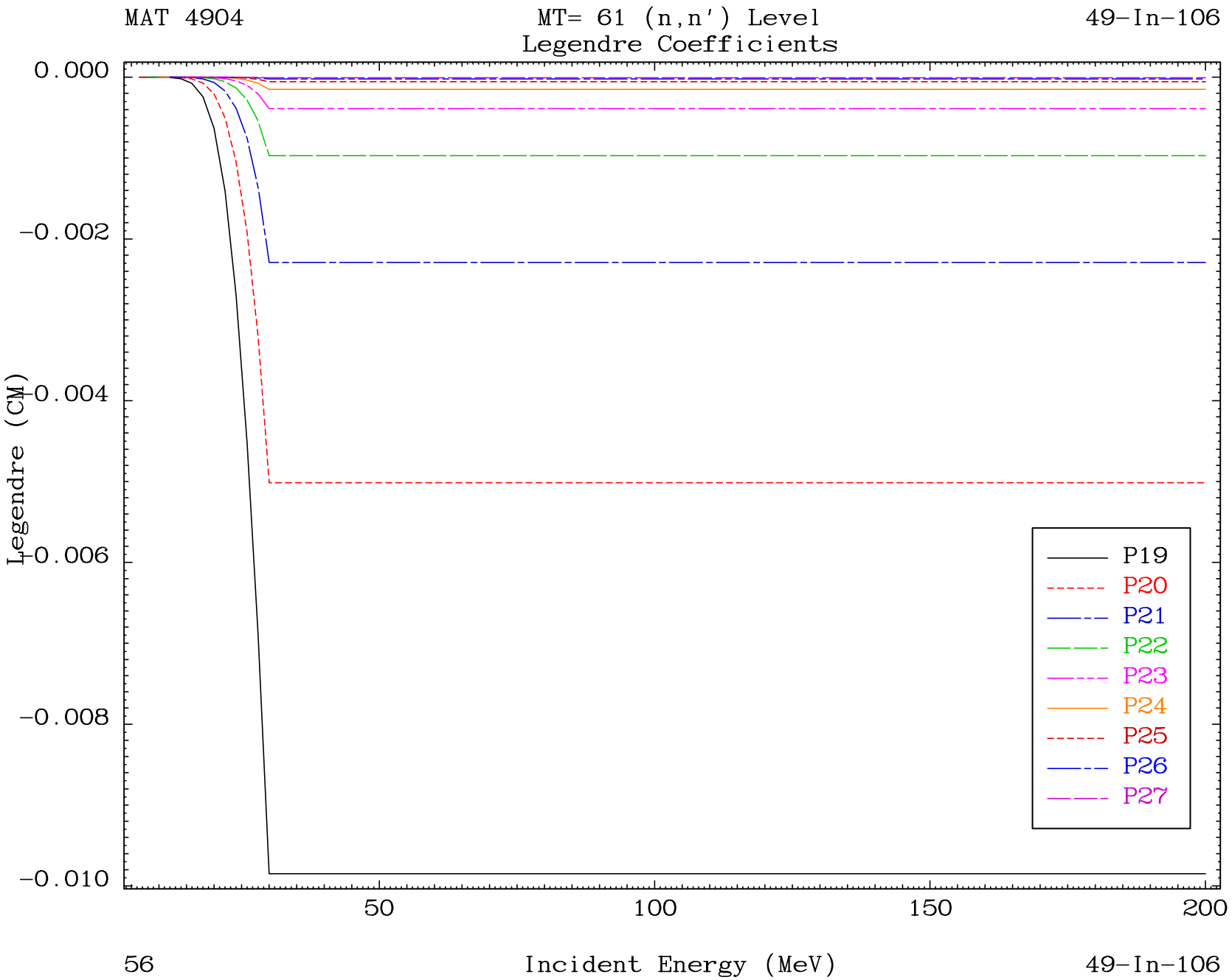

MAT 4904
MT= 60 (n,n') Level
Legendre Coefficients
49-In-106
P1
P2
P3
P4
P5
P6
P7
P8
0.06
0.04
0.02
0.00
-0.02
-0.04
Legendre (CM)
0
50
100
150
200
51
Incident Energy (MeV)
49-In-106

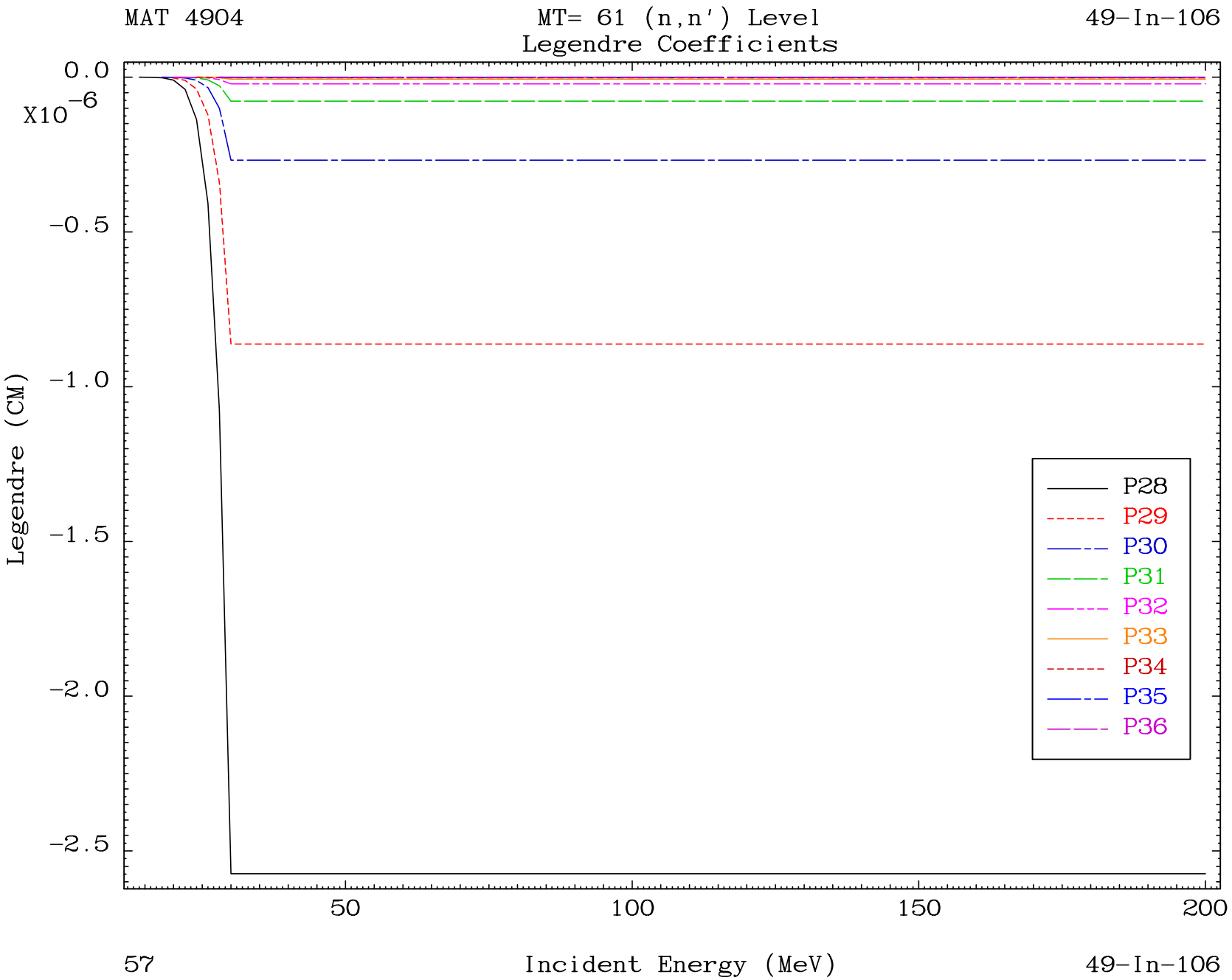

MAT 4904
MT= 60 (n,n') Level
Legendre Coefficients
49-In-106
X10^-4
0
-1
-2
-3
-4
Legendre (CM)
P9
P10
P11
P12
P13
P14
P15
P16
0
50
100
150
200
52
Incident Energy (MeV)
49-In-106

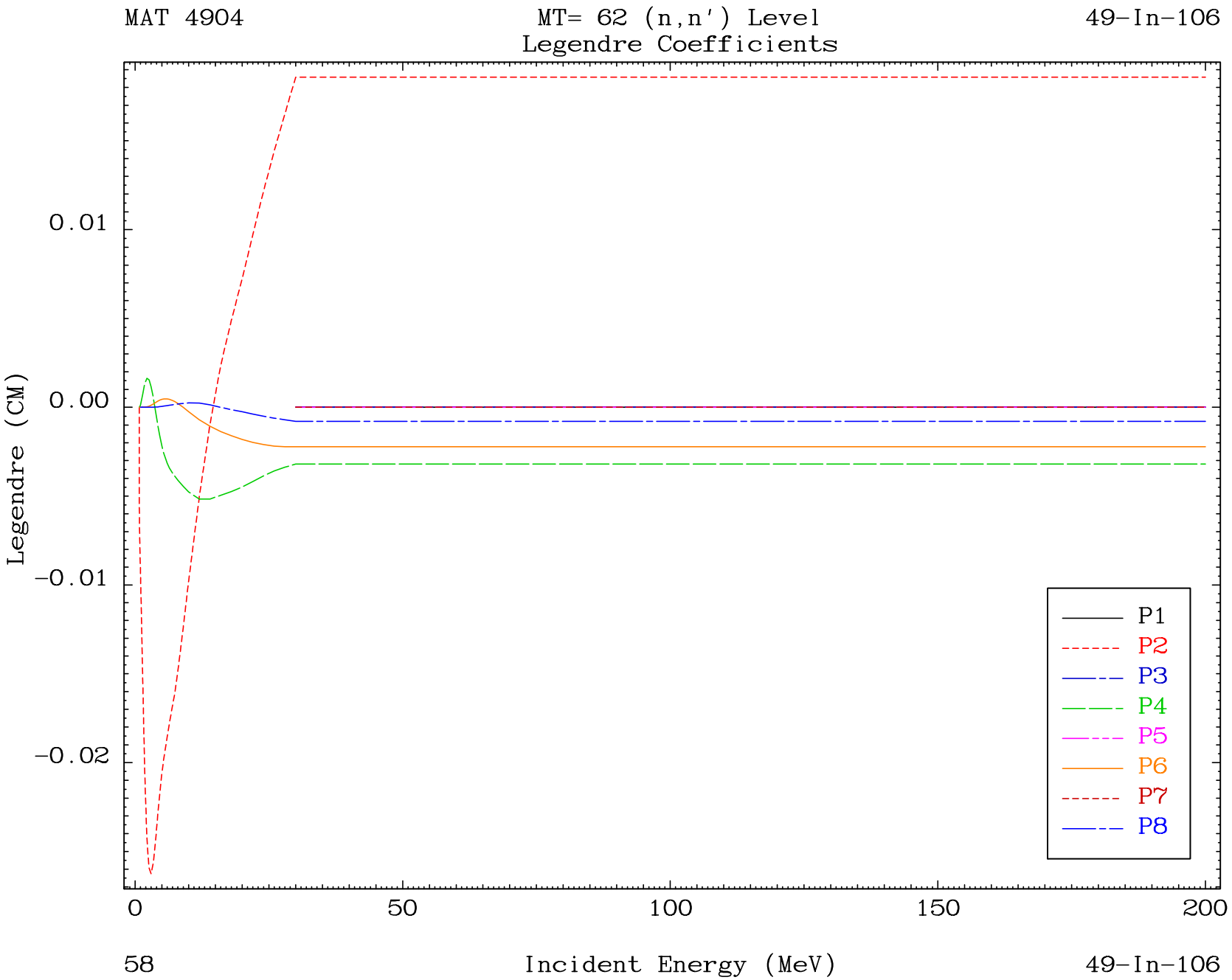

MAT 4904
MT= 60 (n,n') Level
Legendre Coefficients
49-In-106
0
X10^-6
-1
-2
-3
-4
-5
Legendre (CM)
50
100
150
200
P17
P18
P19
P20
P21
P22
P23
P24
53
Incident Energy (MeV)
49-In-106

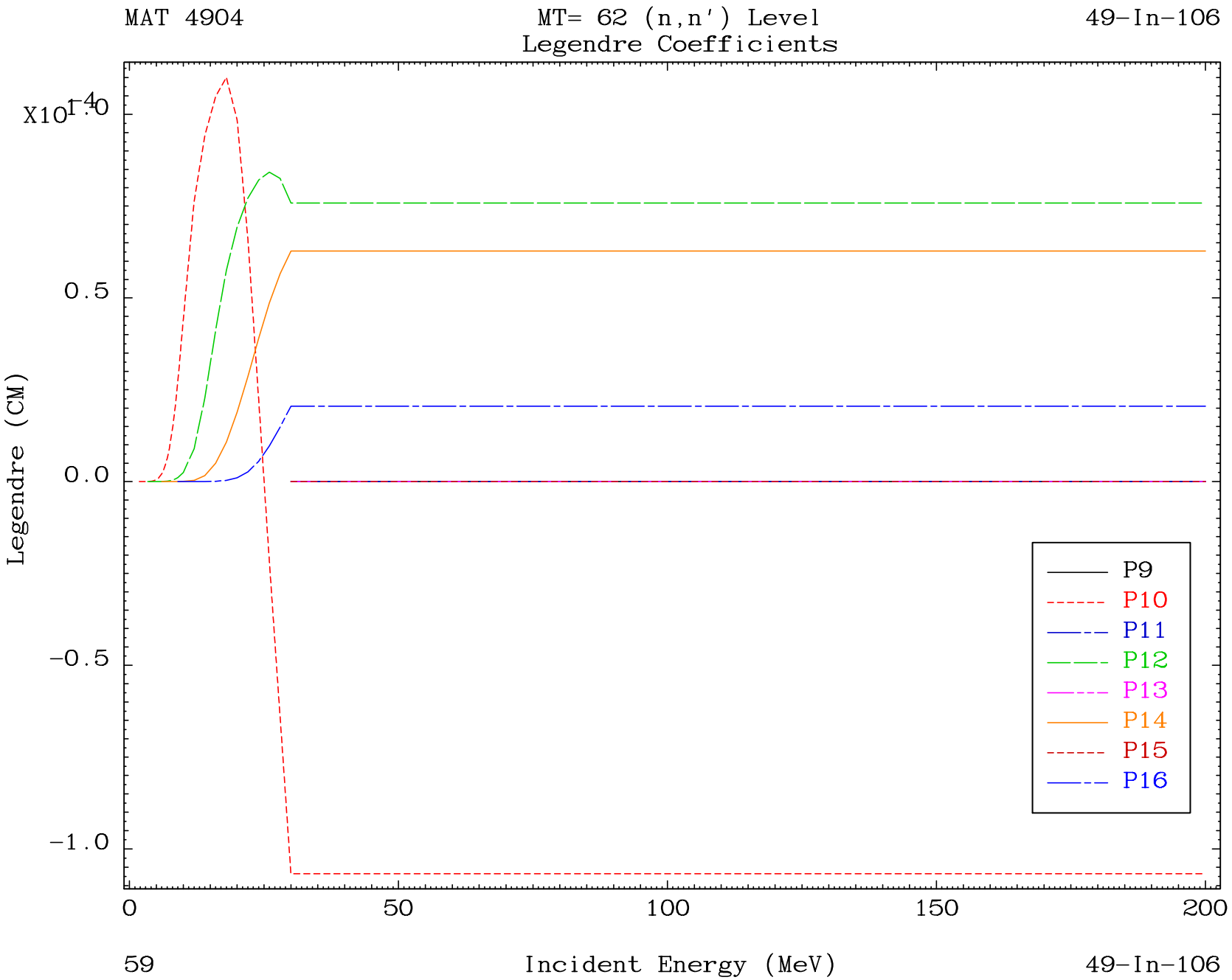

MAT 4904
MT= 61 (n,n') Level
Legendre Coefficients
49-In-106
Legendre (CM)
0.2
0.1
0.0
-0.1
0
50
100
150
200
Incident Energy (MeV)
54
49-In-106
P1
P2
P3
P4
P5
P6
P7
P8
P9

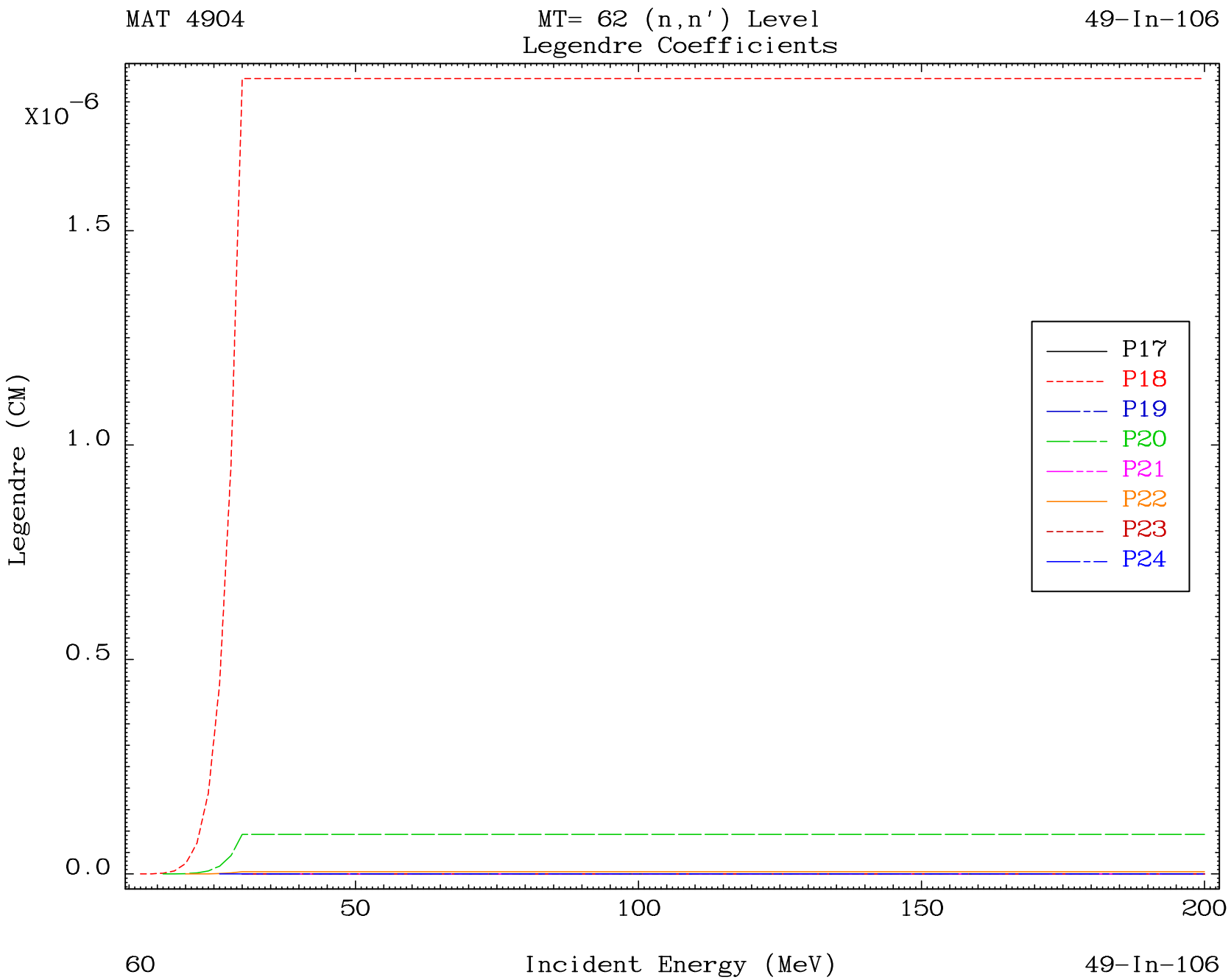

MAT 4904
MT= 61 (n,n') Level
Legendre Coefficients
49-In-106
0.00
-0.01
-0.02
-0.03
-0.04
-0.05
Legendre (CM)
0
50
100
150
200
55
Incident Energy (MeV)
49-In-106
P10
P11
P12
P13
P14
P15
P16
P17
P18

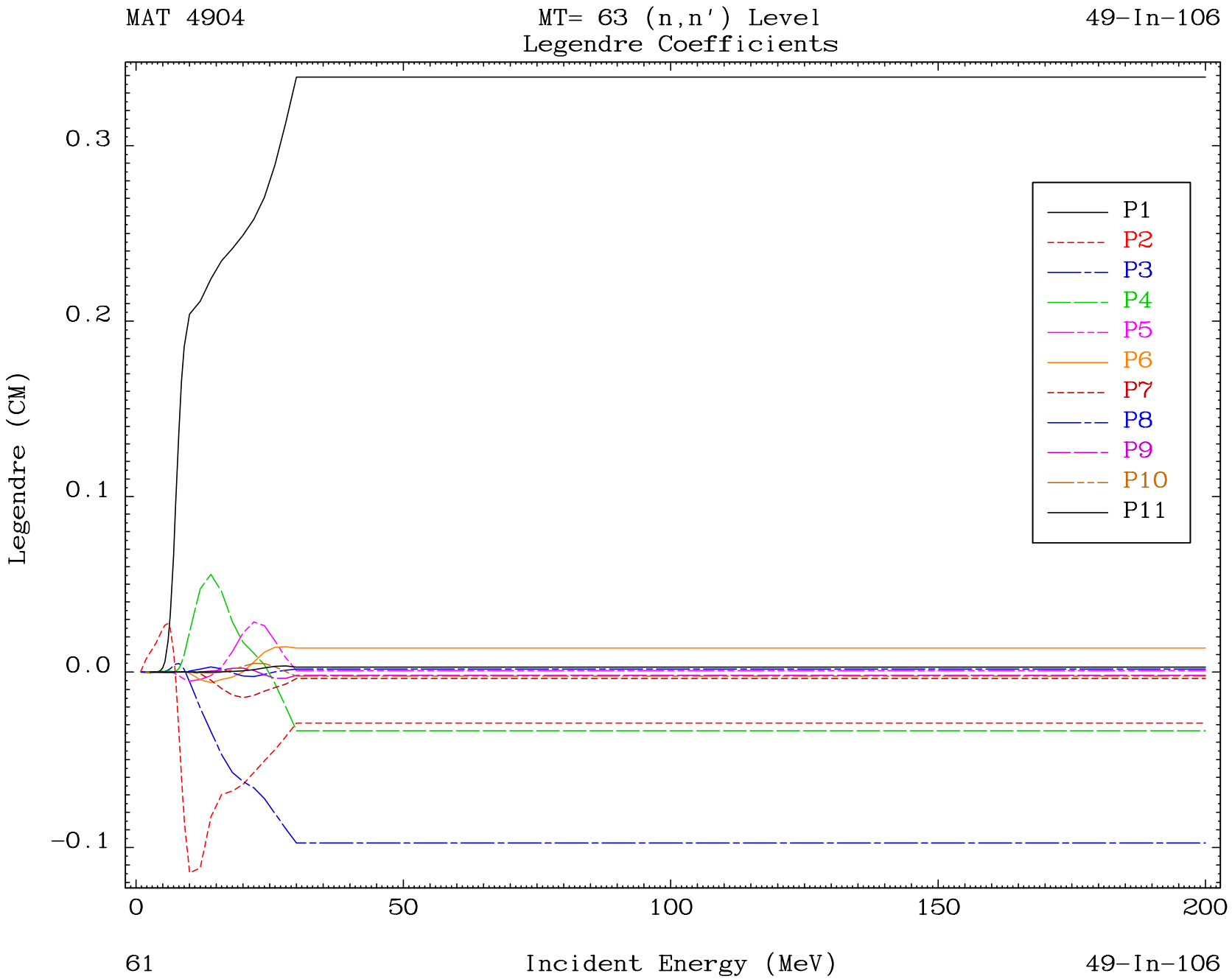

MAT 4904
MT= 61 (n,n') Level
Legendre Coefficients
49-In-106
0.000
-0.002
-0.004
-0.006
-0.008
-0.010
Legendre (CM)
50
100
150
200
56
Incident Energy (MeV)
49-In-106
P19
P20
P21
P22
P23
P24
P25
P26
P27

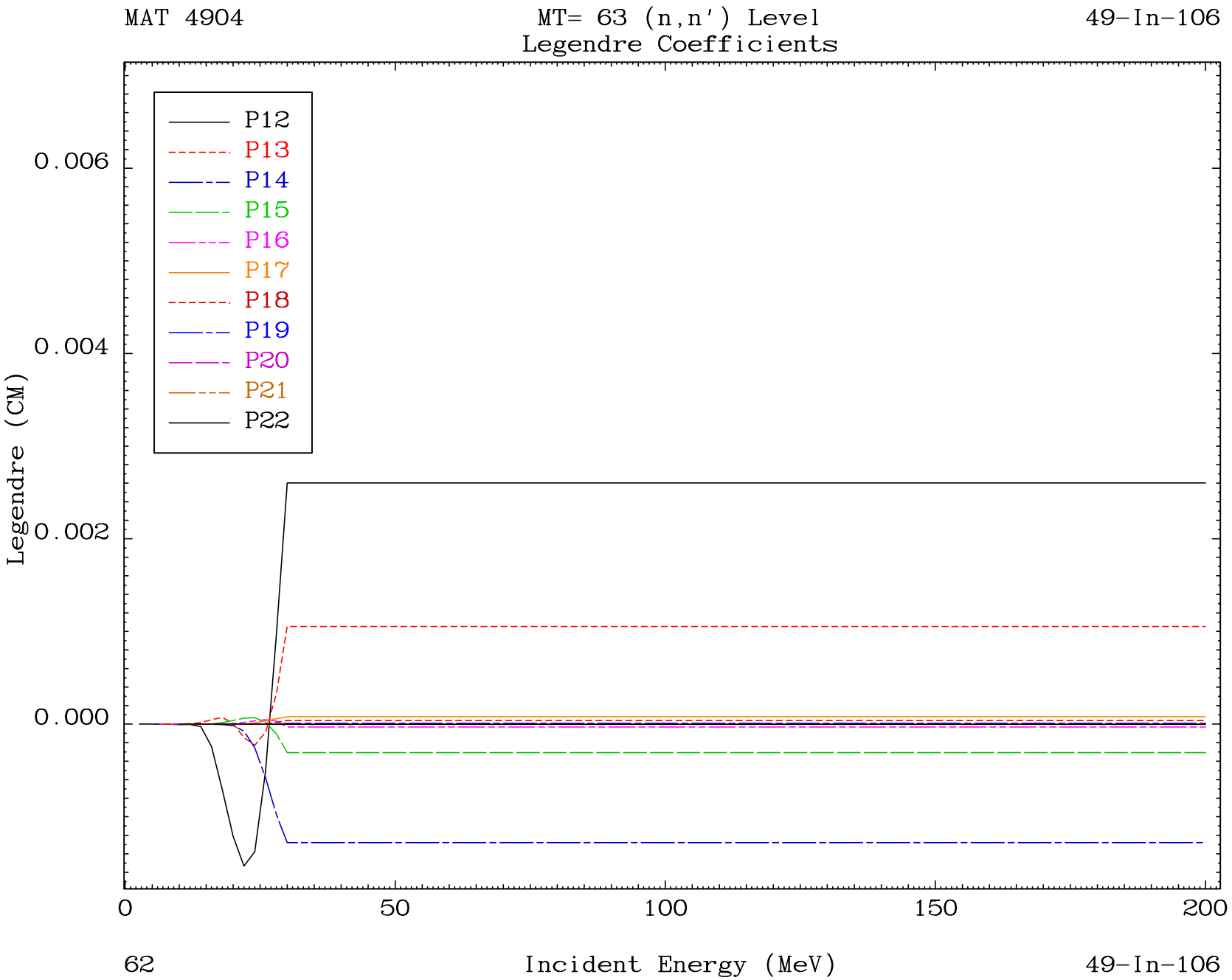

MAT 4904
MT= 61 (n,n') Level
Legendre Coefficients
49-In-106
0.0
X10^-6
-0.5
-1.0
-1.5
-2.0
-2.5
Legendre (CM)
50
100
150
200
57
Incident Energy (MeV)
49-In-106
P28
P29
P30
P31
P32
P33
P34
P35
P36

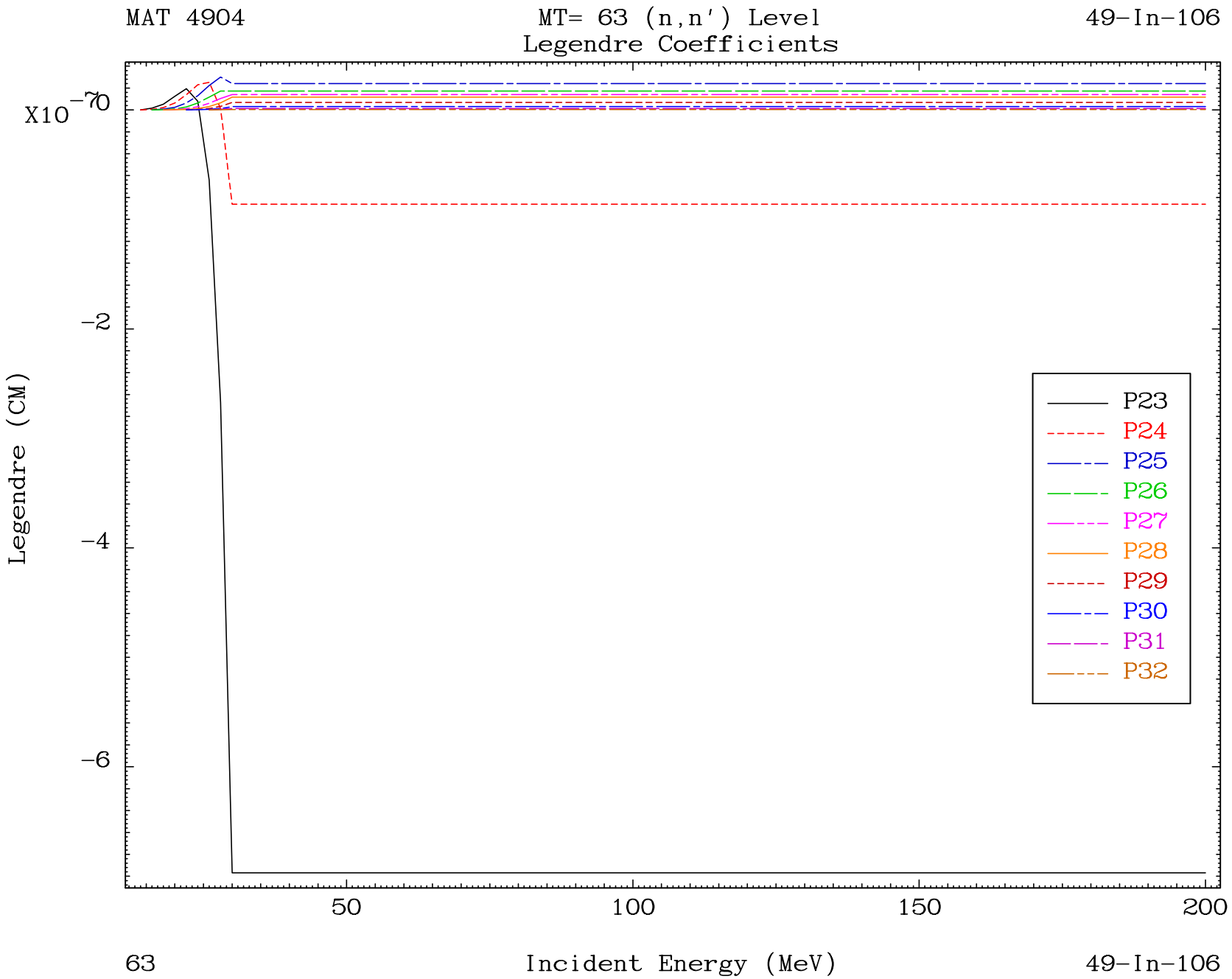

MAT 4904
MT= 62 (n,n') Level
Legendre Coefficients
49-In-106
0.01
0.00
-0.01
-0.02
Legendre (CM)
0
50
100
150
200
58
Incident Energy (MeV)
49-In-106
P1
P2
P3
P4
P5
P6
P7
P8

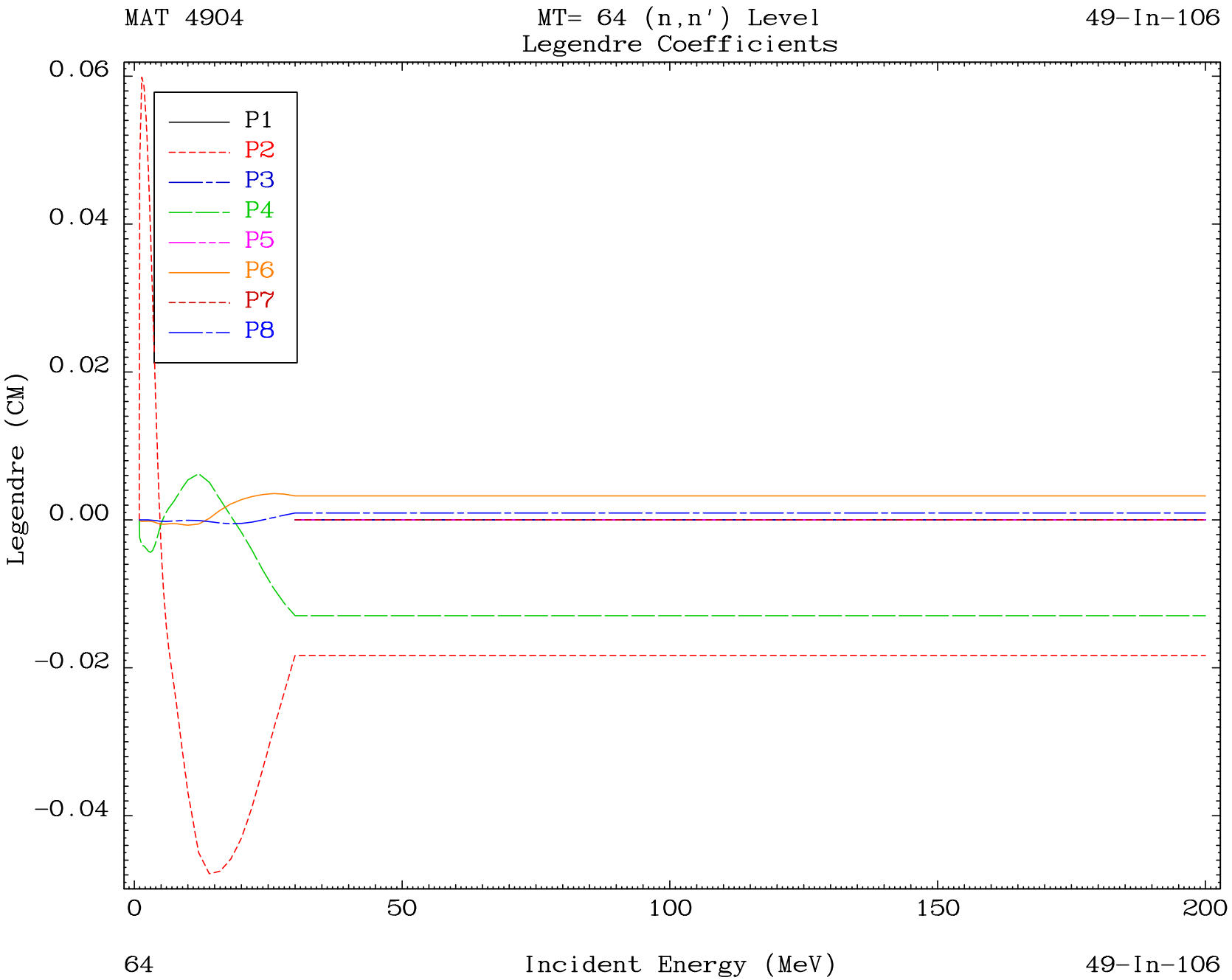

MAT 4904
MT= 62 (n,n') Level
Legendre Coefficients
49-In-106
X10-4
1.0
0.5
0.0
-0.5
-1.0
Legendre (CM)
0
50
100
150
200
59
Incident Energy (MeV)
49-In-106
P9
P10
P11
P12
P13
P14
P15
P16

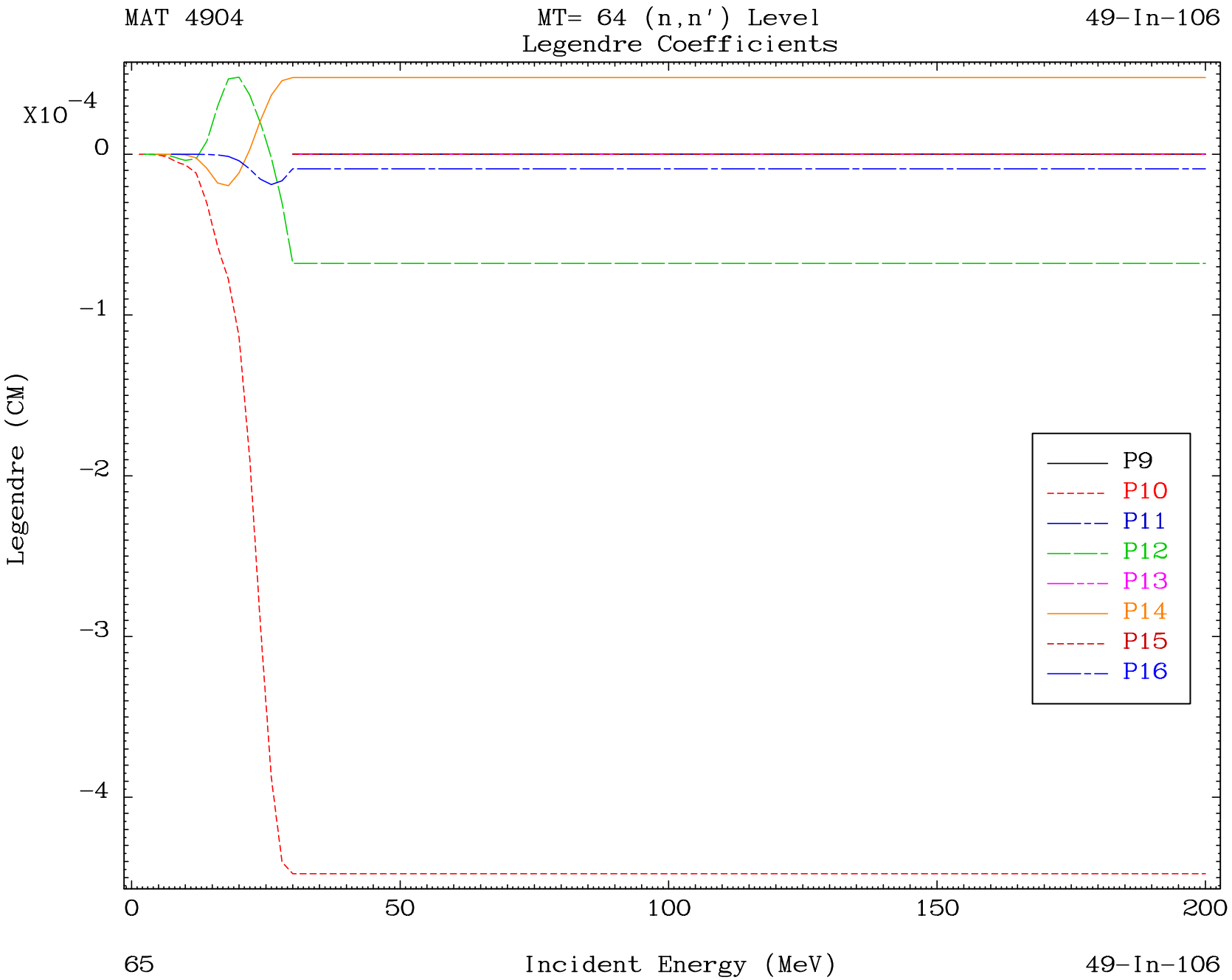

MAT 4904
MT= 62 (n,n') Level
Legendre Coefficients
49-In-106
X10^-6
1.5
1.0
0.5
0.0
Legendre (CM)
P17
P18
P19
P20
P21
P22
P23
P24
50
100
150
200
60
Incident Energy (MeV)
49-In-106

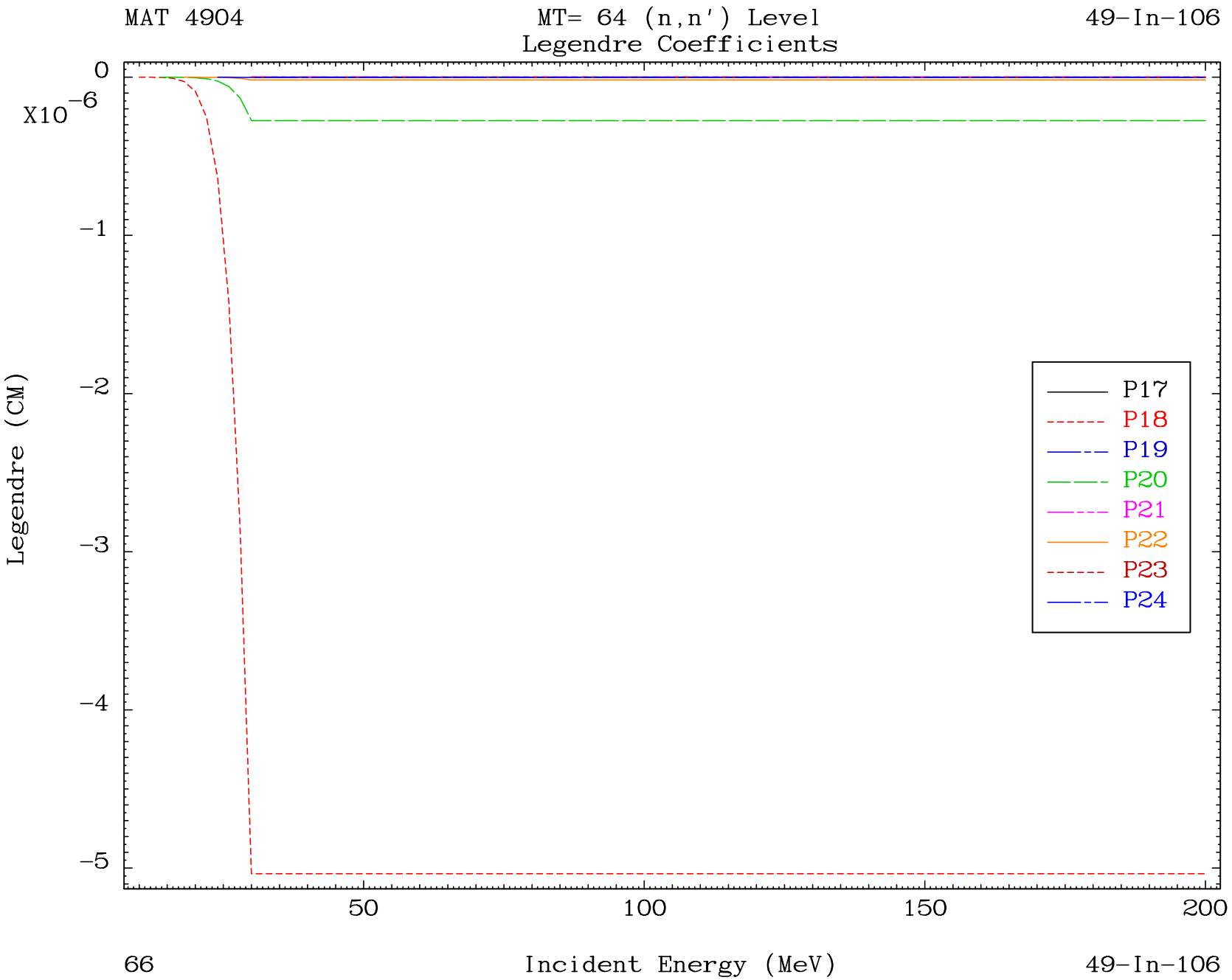

MAT 4904
MT= 63 (n,n') Level
Legendre Coefficients
49-In-106
0.3
0.2
0.1
0.0
-0.1
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11
0
50
100
150
200
61
Incident Energy (MeV)
49-In-106

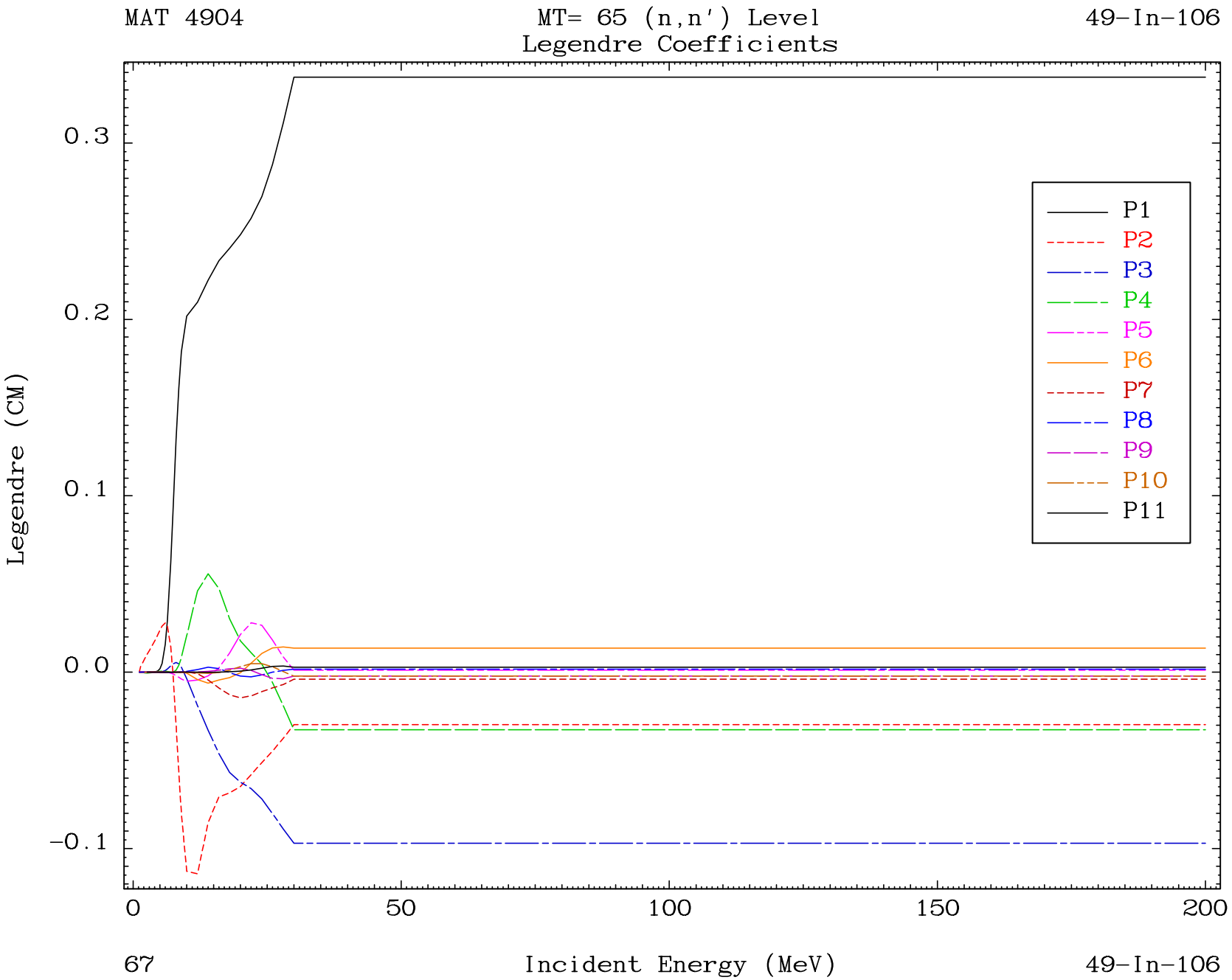

MAT 4904
MT= 63 (n,n') Level
Legendre Coefficients
49-In-106
P12
P13
P14
P15
P16
P17
P18
P19
P20
P21
P22
0.006
0.004
0.002
0.000
Legendre (CM)
0
50
100
150
200
62
Incident Energy (MeV)
49-In-106

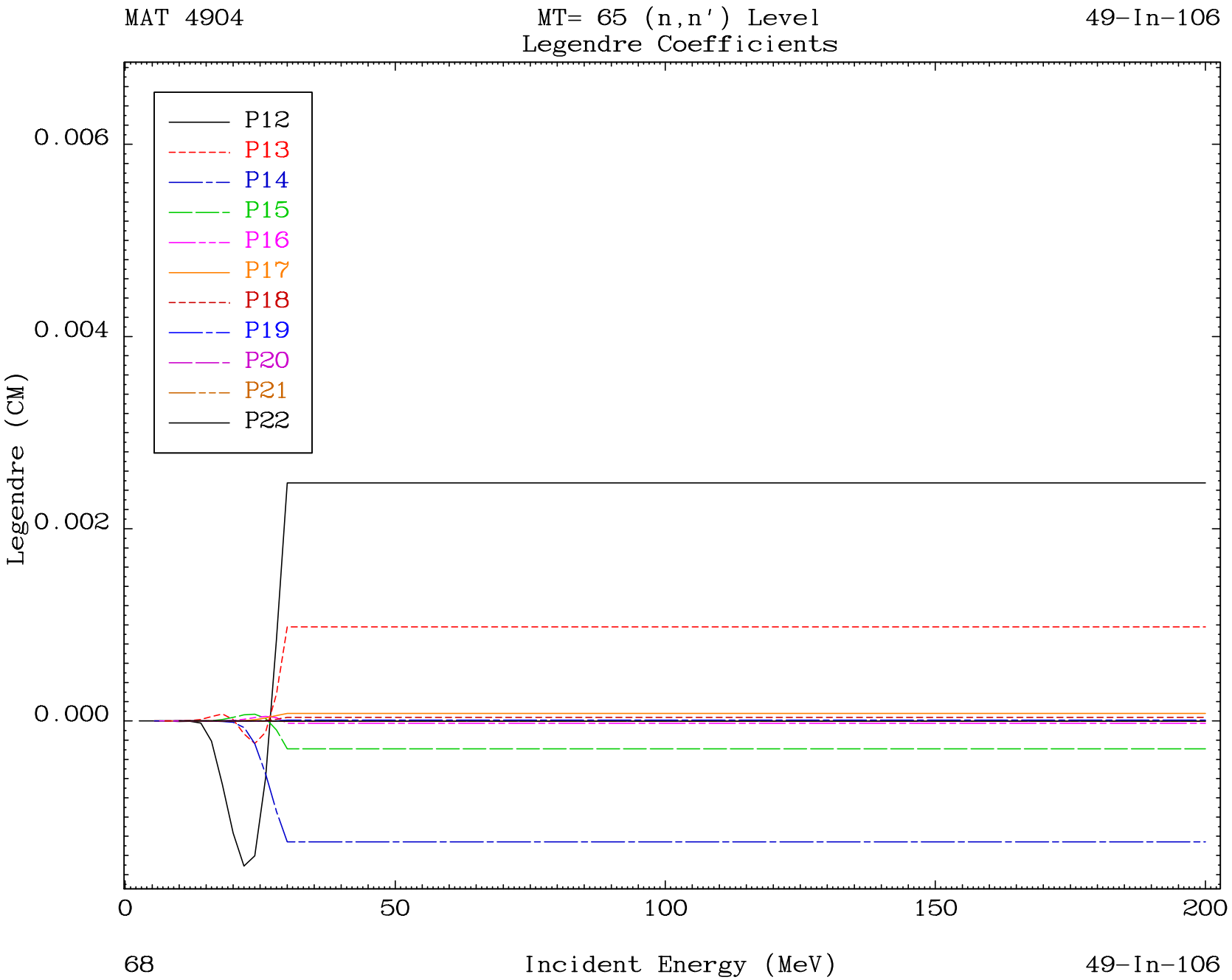

MAT 4904
MT= 63 (n,n') Level
Legendre Coefficients
49-In-106
X10^-7
0
-2
-4
-6
Legendre (CM)
50
100
150
200
63
Incident Energy (MeV)
49-In-106
P23
P24
P25
P26
P27
P28
P29
P30
P31
P32

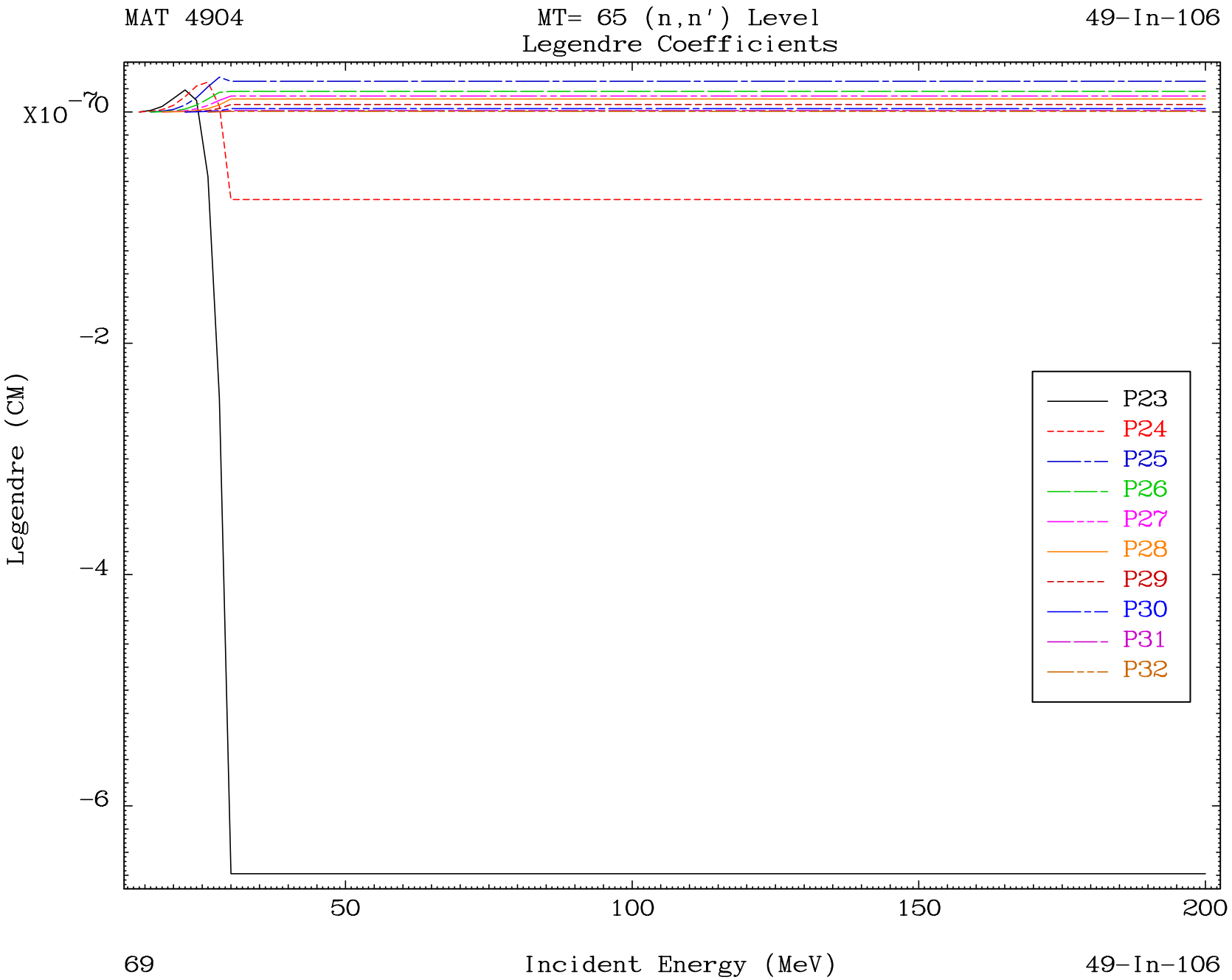

MAT 4904
MT= 64 (n,n') Level
Legendre Coefficients
49-In-106
P1
P2
P3
P4
P5
P6
P7
P8
0.06
0.04
0.02
0.00
-0.02
-0.04
Legendre (CM)
0
50
100
150
200
64
Incident Energy (MeV)
49-In-106

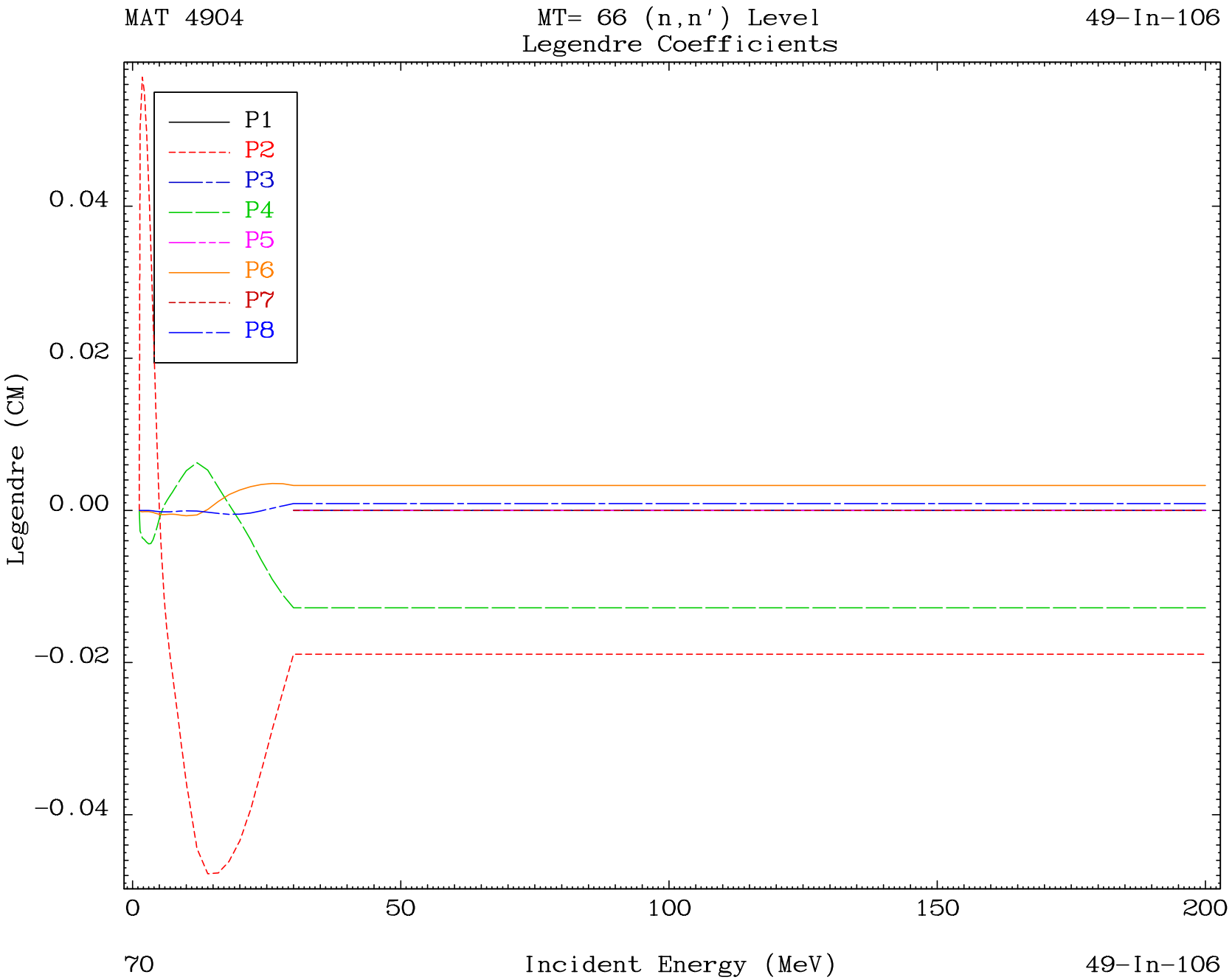

MAT 4904
MT= 64 (n,n') Level
Legendre Coefficients
49-In-106
X10^-4
0
-1
-2
-3
-4
Legendre (CM)
P9
P10
P11
P12
P13
P14
P15
P16
0
50
100
150
200
65
Incident Energy (MeV)
49-In-106

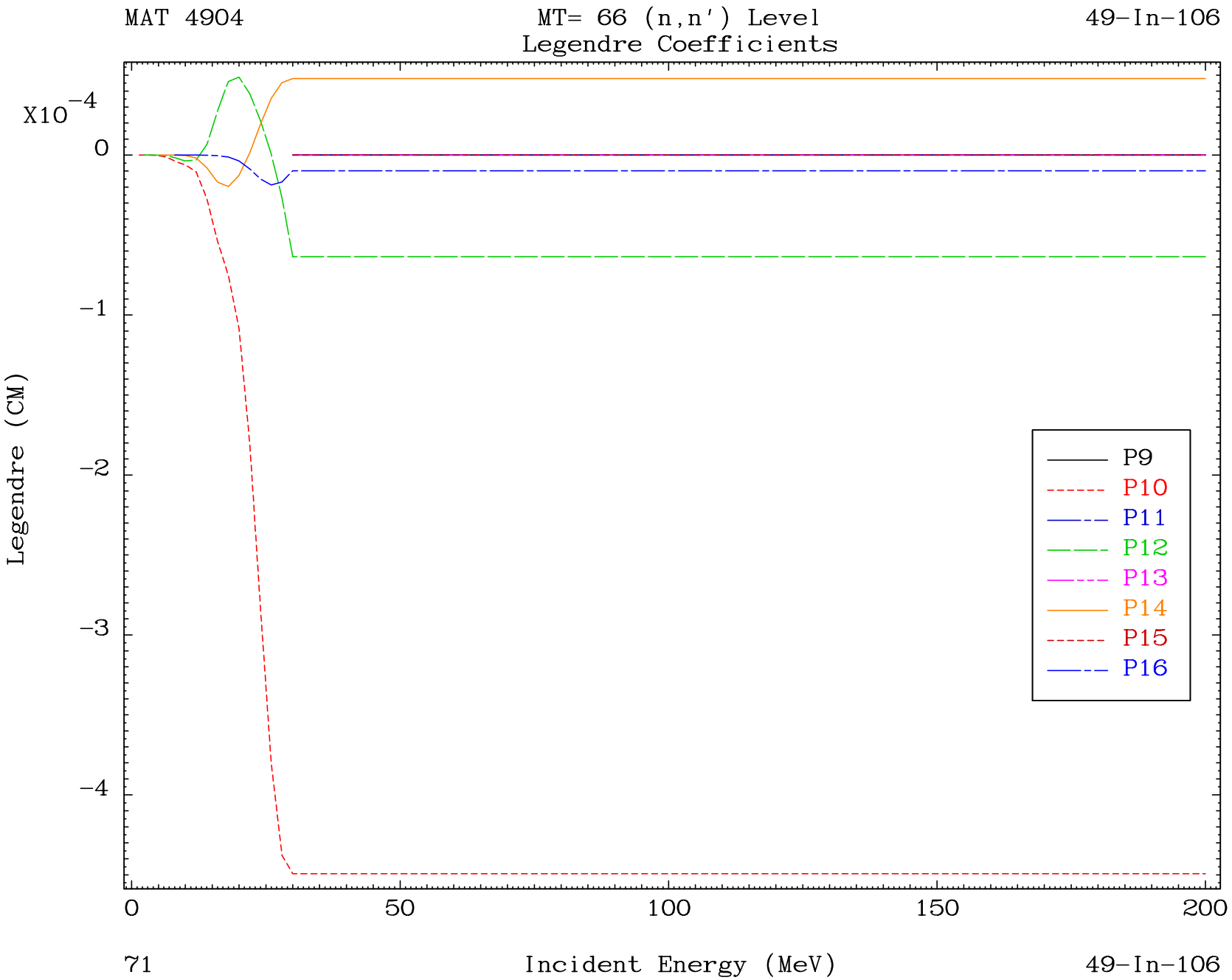

MAT 4904
MT= 64 (n,n') Level
Legendre Coefficients
49-In-106
0
X10−6
−1
−2
−3
−4
−5
Legendre (CM)
50
100
150
200
66
Incident Energy (MeV)
49-In-106
P17
P18
P19
P20
P21
P22
P23
P24

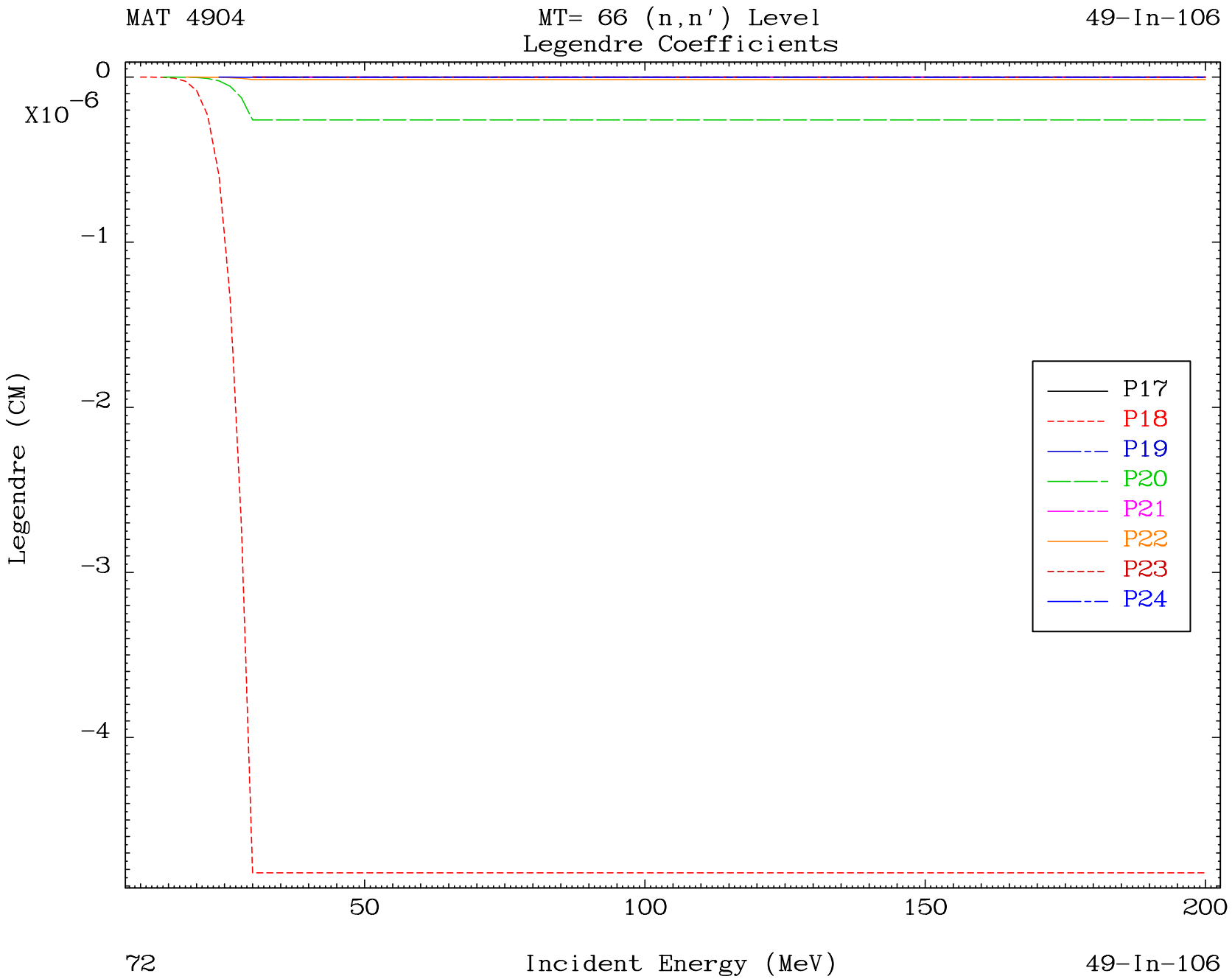

MAT 4904
MT= 65 (n,n') Level
Legendre Coefficients
49-In-106
0.3
0.2
0.1
0.0
-0.1
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11
0
50
100
150
200
67
Incident Energy (MeV)
49-In-106

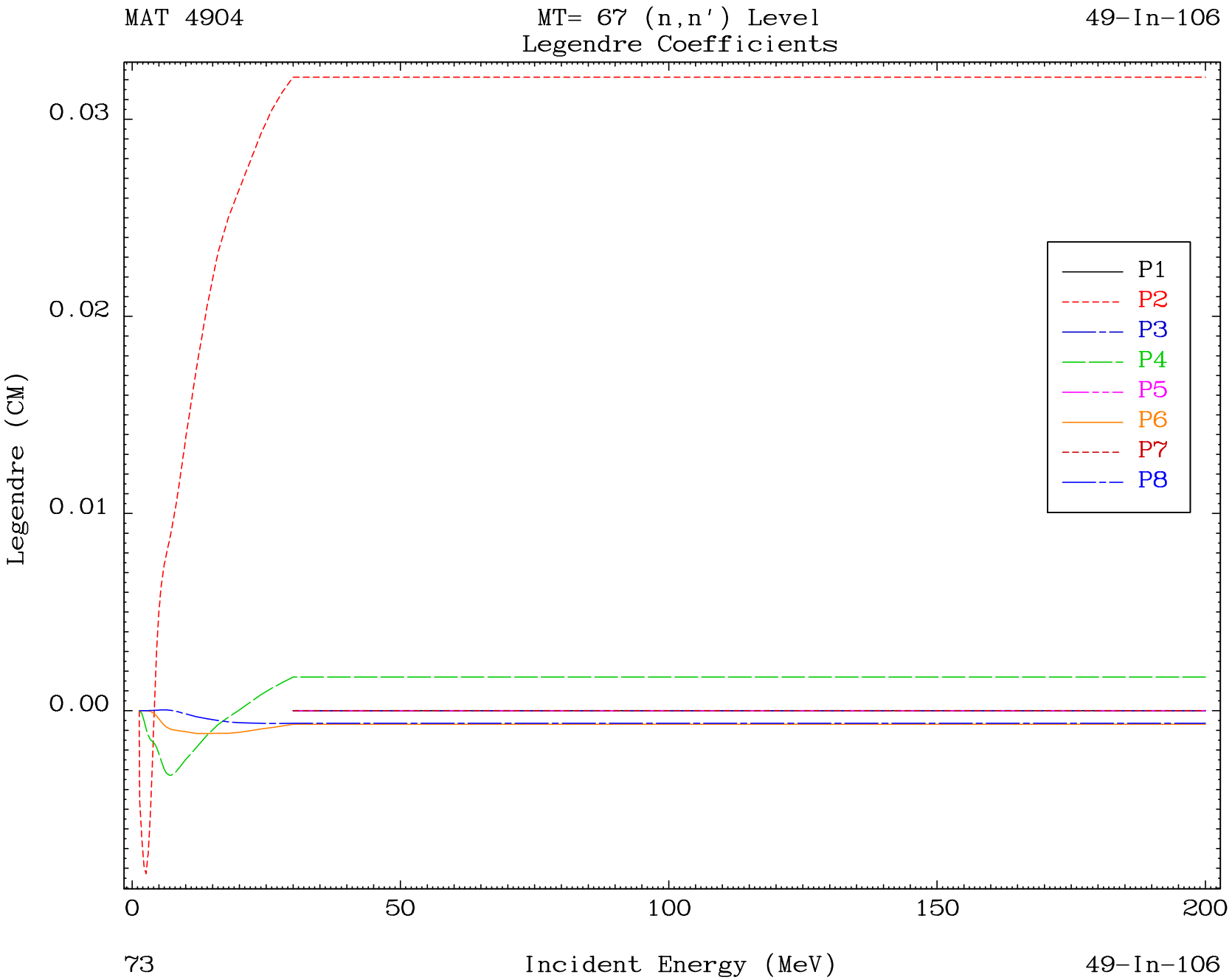

MAT 4904
MT= 65 (n,n') Level
Legendre Coefficients
49-In-106
P12
P13
P14
P15
P16
P17
P18
P19
P20
P21
P22
0.006
0.004
0.002
0.000
Legendre (CM)
0
50
100
150
200
68
Incident Energy (MeV)
49-In-106

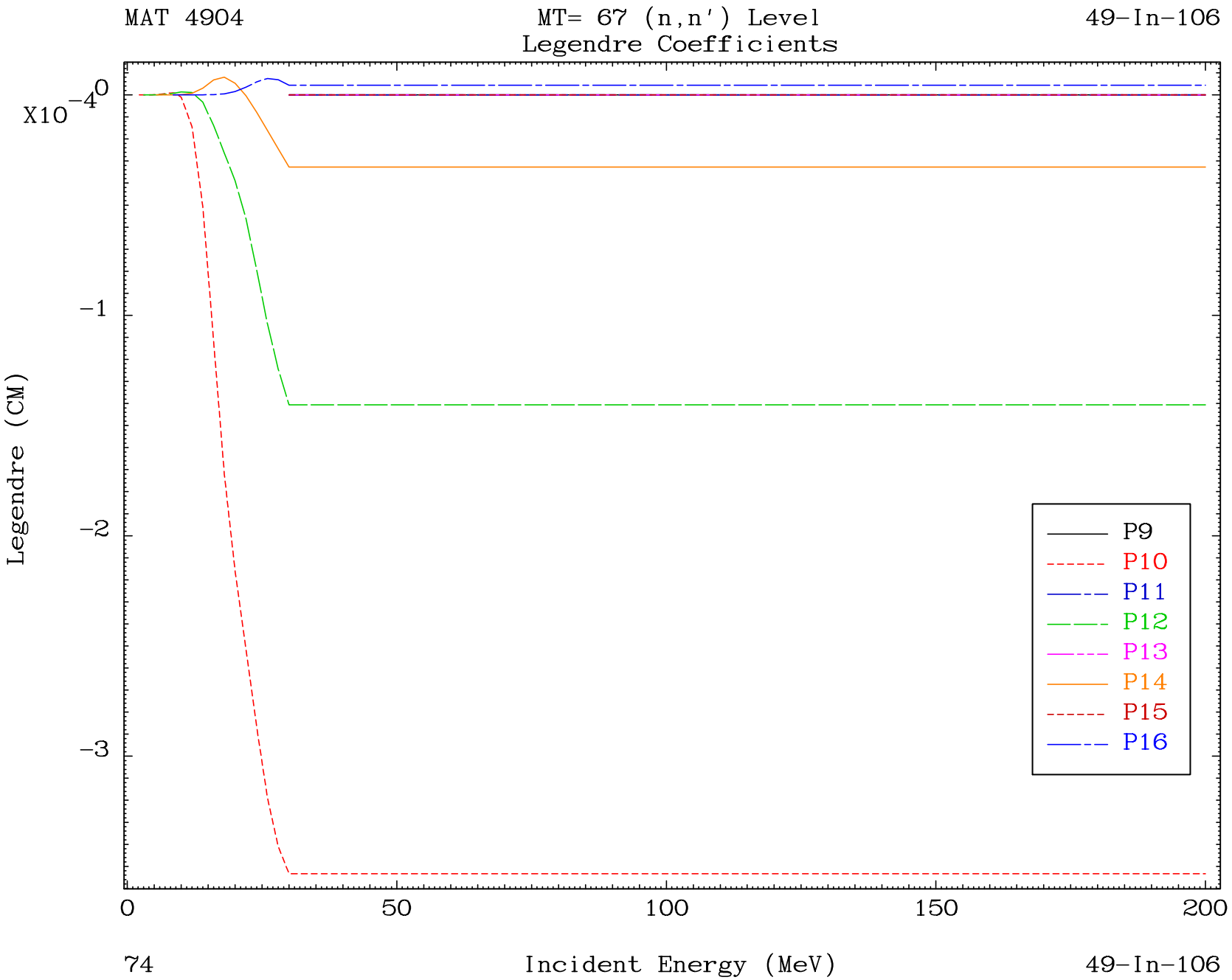

MAT 4904
MT= 65 (n,n') Level
Legendre Coefficients
49-In-106
X10^-7
0
-2
-4
-6
Legendre (CM)
50
100
150
200
69
Incident Energy (MeV)
49-In-106
P23
P24
P25
P26
P27
P28
P29
P30
P31
P32

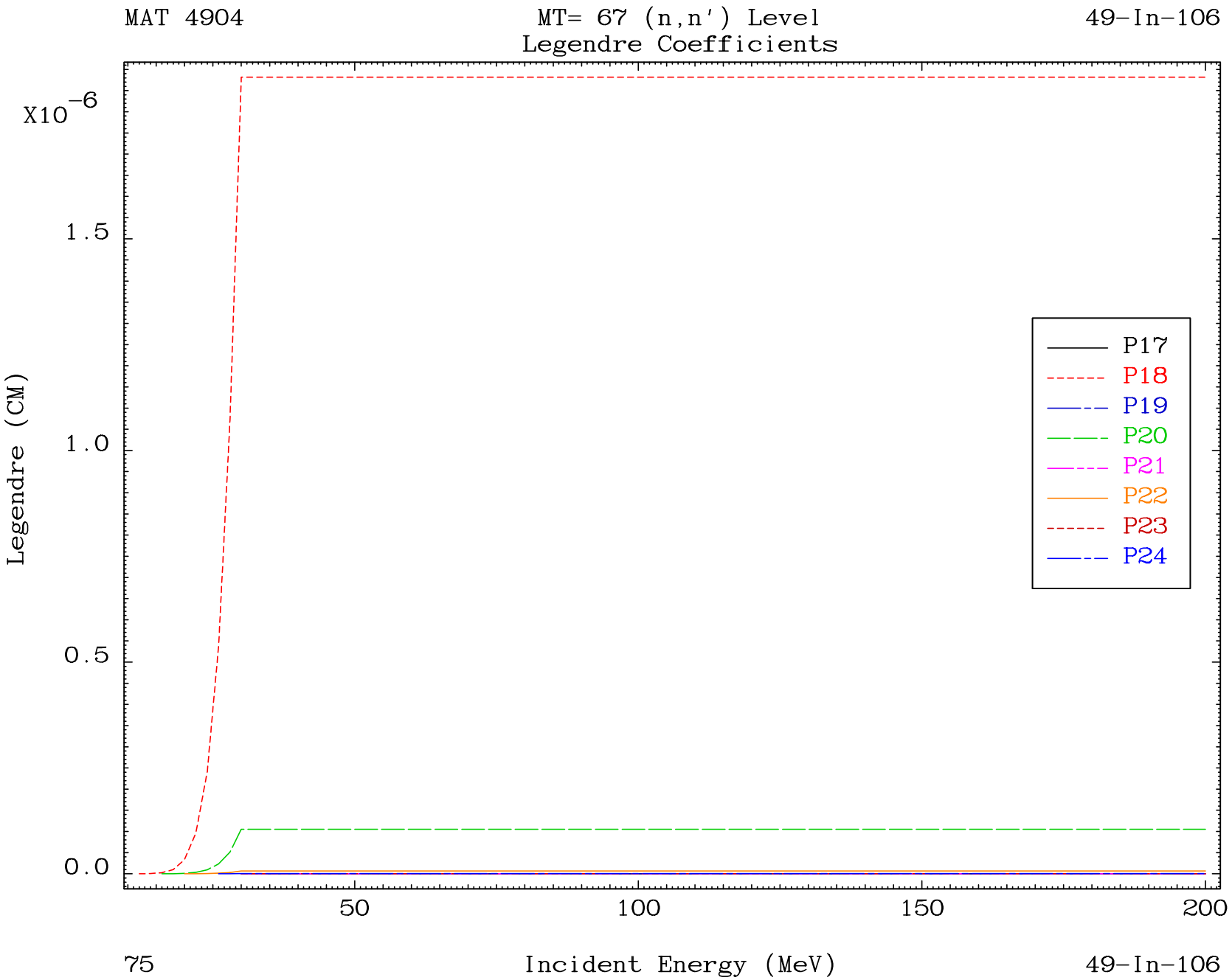

MAT 4904
MT= 66 (n,n') Level
Legendre Coefficients
49-In-106
P1
P2
P3
P4
P5
P6
P7
P8
0.04
0.02
0.00
-0.02
-0.04
Legendre (CM)
0
50
100
150
200
70
Incident Energy (MeV)
49-In-106

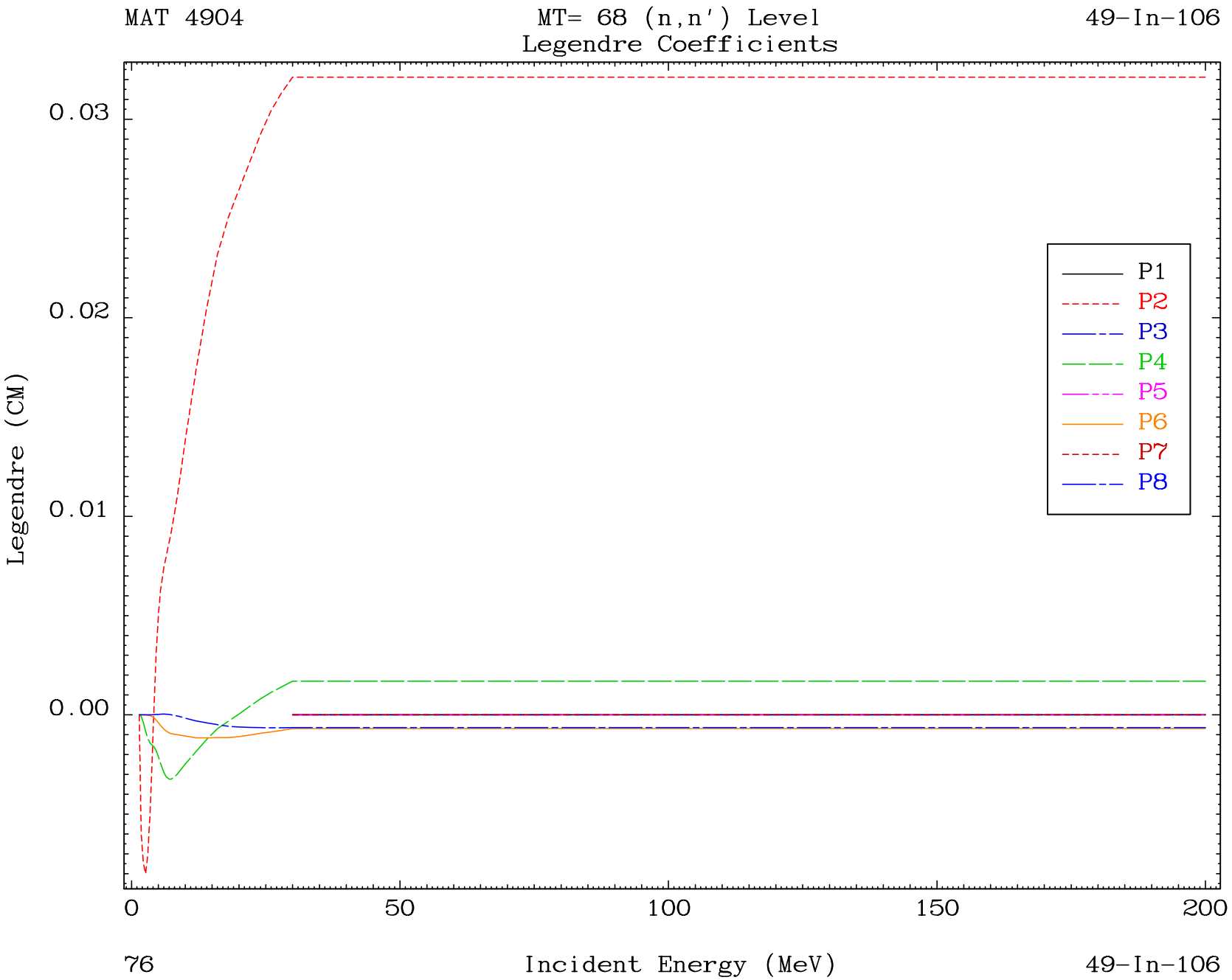

MAT 4904
MT= 66 (n,n') Level
Legendre Coefficients
49-In-106
X10^-4
0
-1
-2
-3
-4
Legendre (CM)
P9
P10
P11
P12
P13
P14
P15
P16
0
50
100
150
200
71
Incident Energy (MeV)
49-In-106

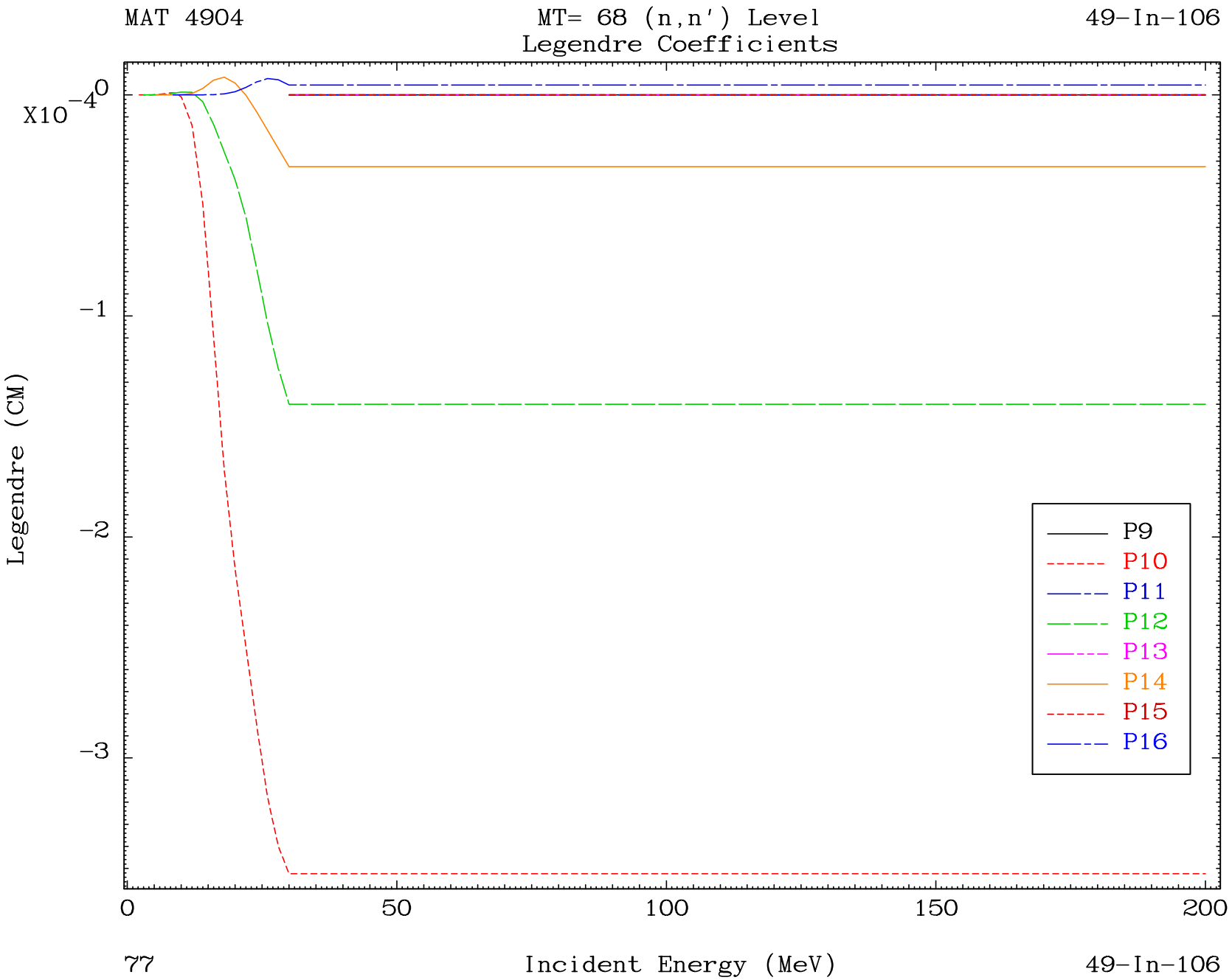

MAT 4904
MT= 66 (n,n') Level
Legendre Coefficients
49-In-106
0
X10−6
−1
−2
−3
−4
Legendre (CM)
P17
P18
P19
P20
P21
P22
P23
P24
50
100
150
200
72
Incident Energy (MeV)
49-In-106

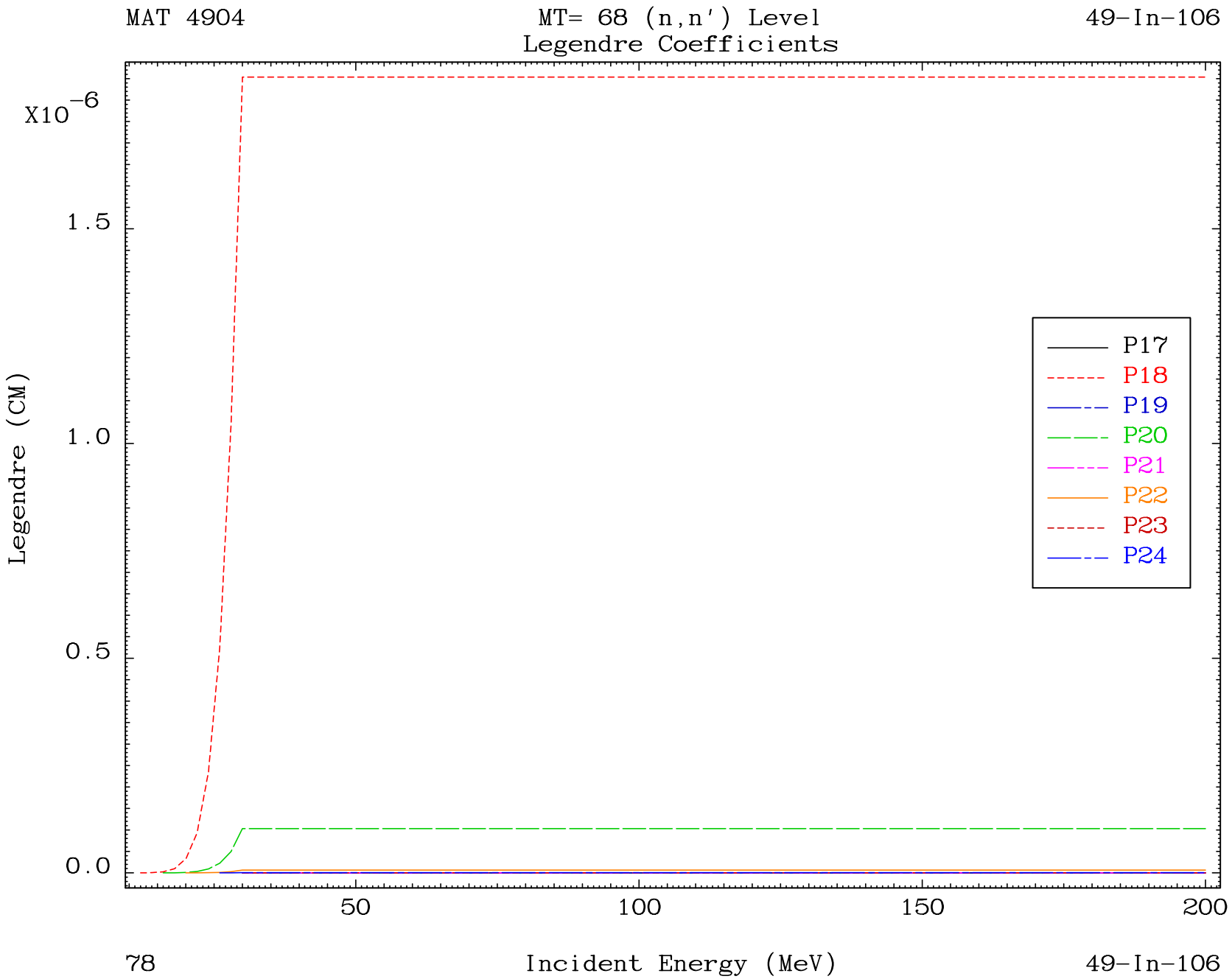

MAT 4904
MT= 67 (n,n') Level
Legendre Coefficients
49-In-106
0.03
0.02
0.01
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
0
50
100
150
200
73
Incident Energy (MeV)
49-In-106

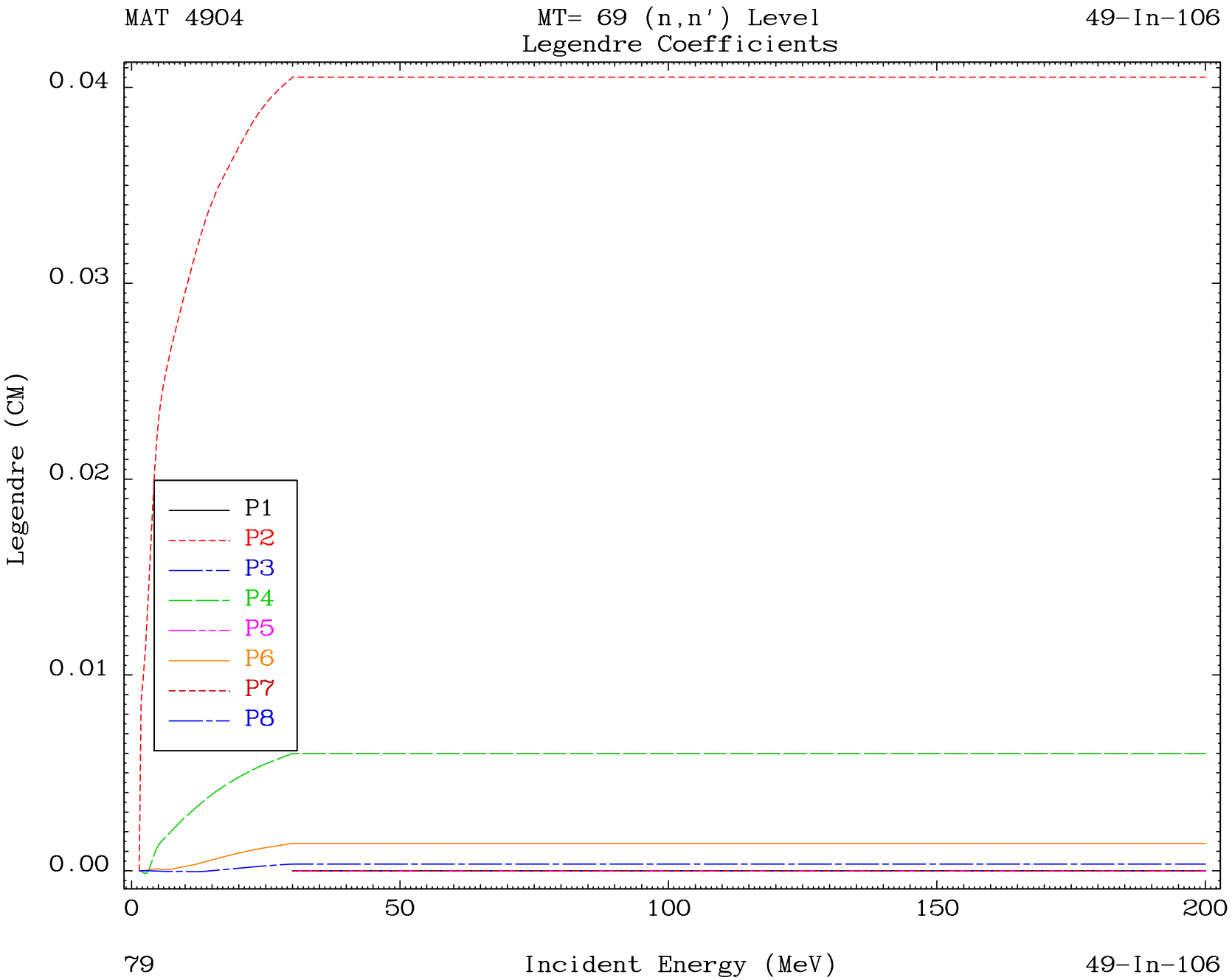

MAT 4904
MT= 67 (n,n') Level
Legendre Coefficients
49-In-106
X10^-4
0
-1
-2
-3
Legendre (CM)
0
50
100
150
200
74
Incident Energy (MeV)
49-In-106
P9
P10
P11
P12
P13
P14
P15
P16

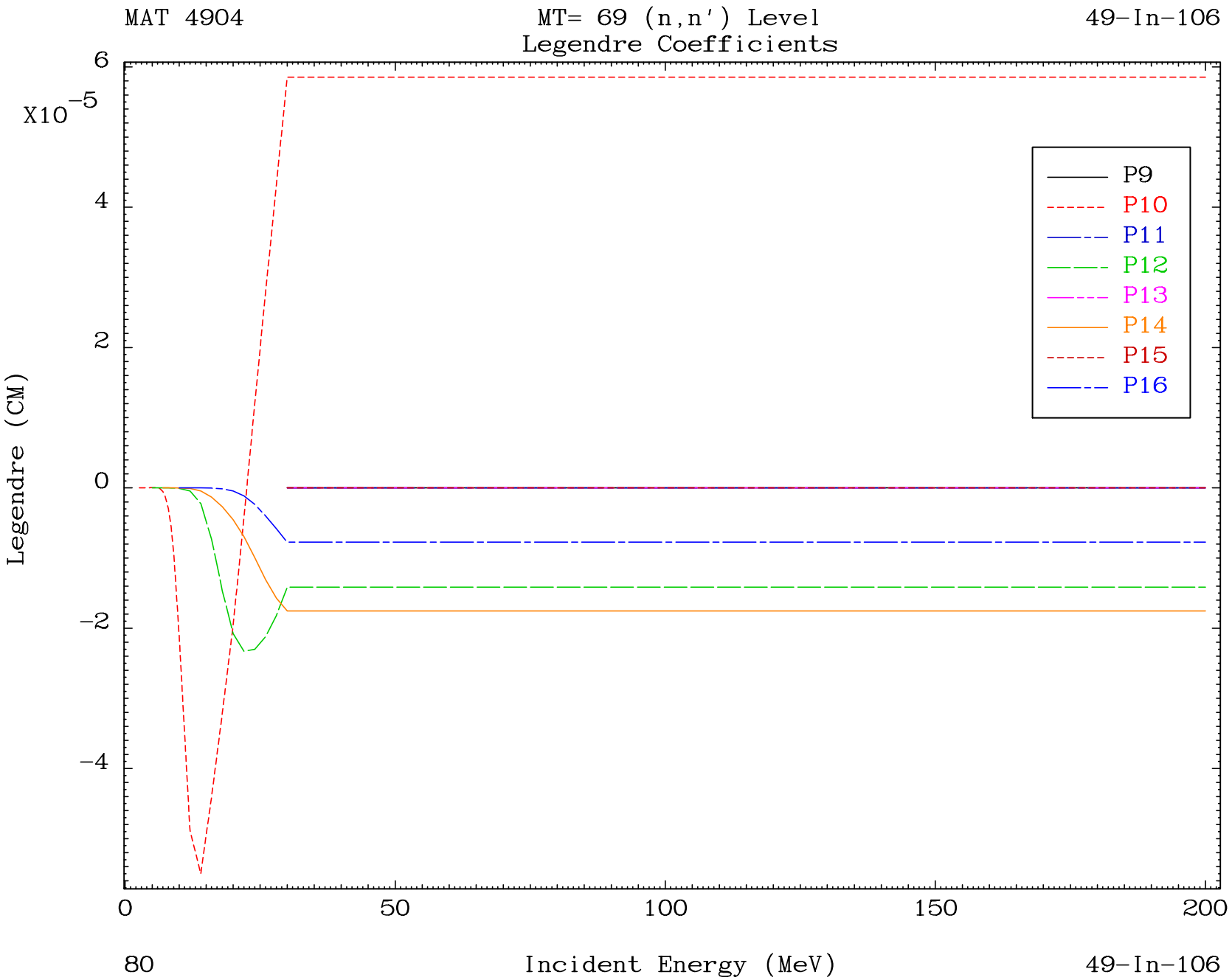

MAT 4904
MT= 67 (n,n') Level
Legendre Coefficients
49-In-106
X10^-6
1.5
1.0
0.5
0.0
Legendre (CM)
P17
P18
P19
P20
P21
P22
P23
P24
50
100
150
200
75
Incident Energy (MeV)
49-In-106

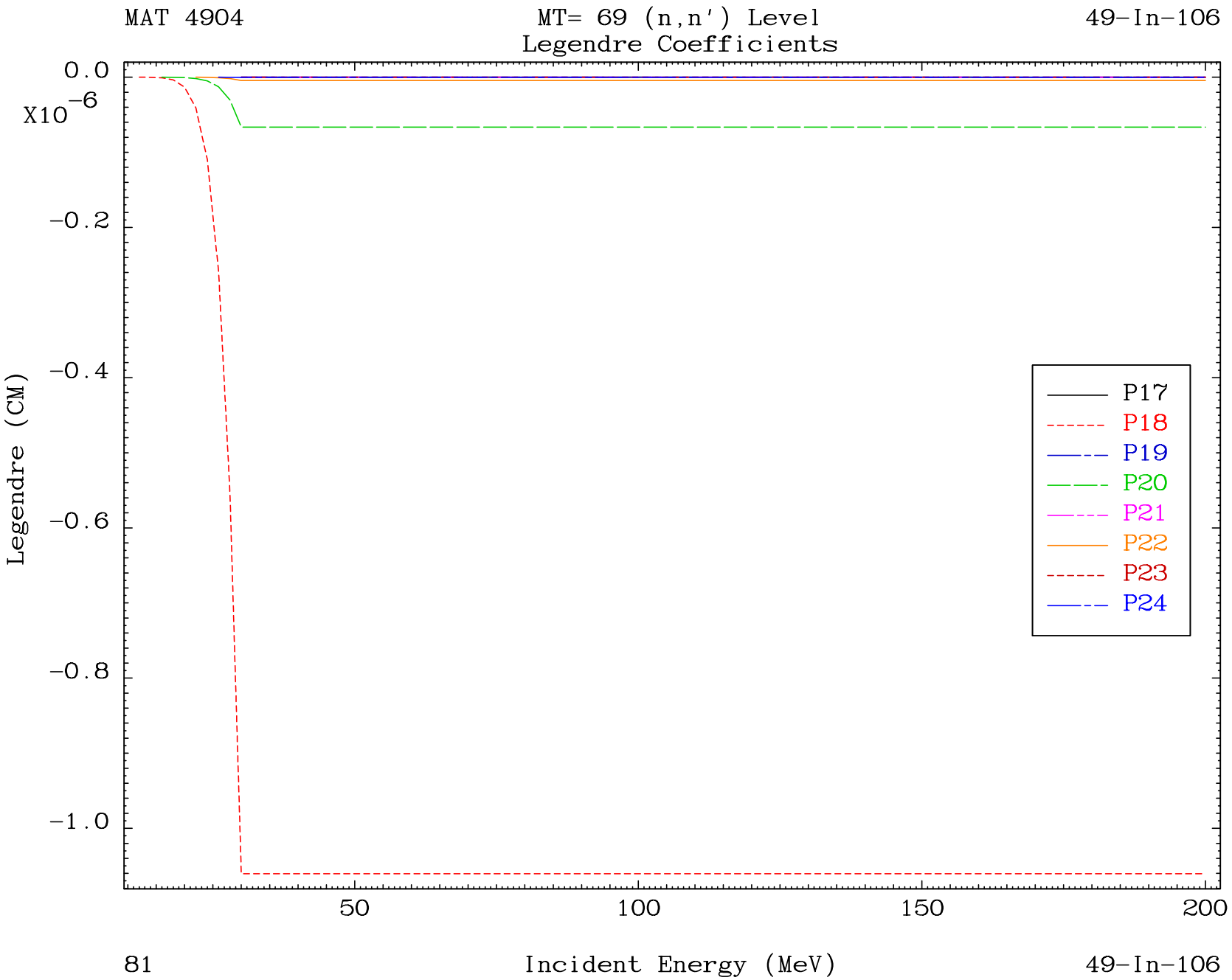

MAT 4904
MT= 68 (n,n') Level
Legendre Coefficients
49-In-106
0.03
0.02
0.01
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
0
50
100
150
200
76
Incident Energy (MeV)
49-In-106

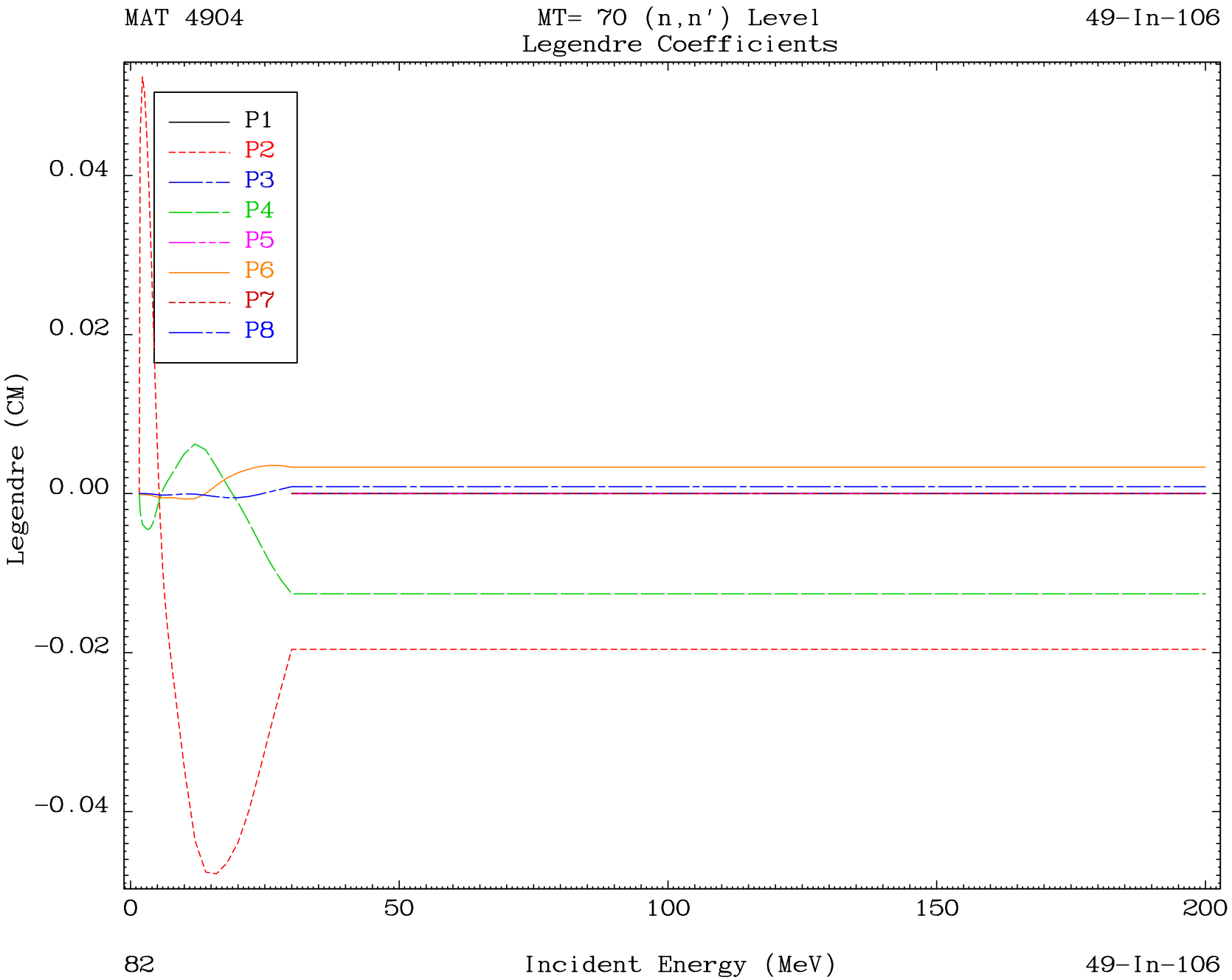

MAT 4904
MT= 68 (n,n') Level
Legendre Coefficients
49-In-106
X10^-4
0
-1
-2
-3
Legendre (CM)
0
50
100
150
200
77
Incident Energy (MeV)
49-In-106
P9
P10
P11
P12
P13
P14
P15
P16

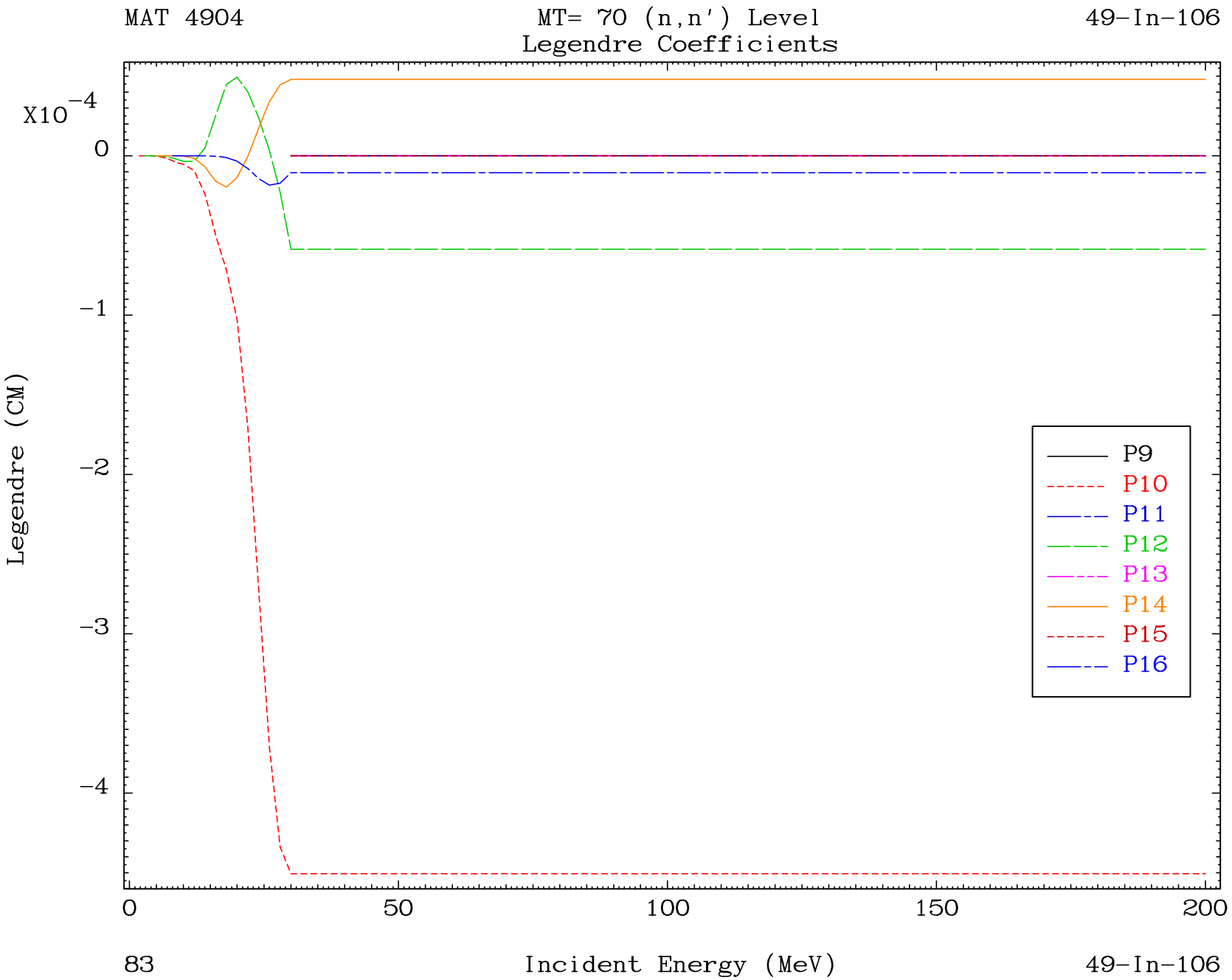

MAT 4904
MT= 68 (n,n') Level
Legendre Coefficients
49-In-106
X10^-6
1.5
1.0
0.5
0.0
Legendre (CM)
P17
P18
P19
P20
P21
P22
P23
P24
50
100
150
200
78
Incident Energy (MeV)
49-In-106

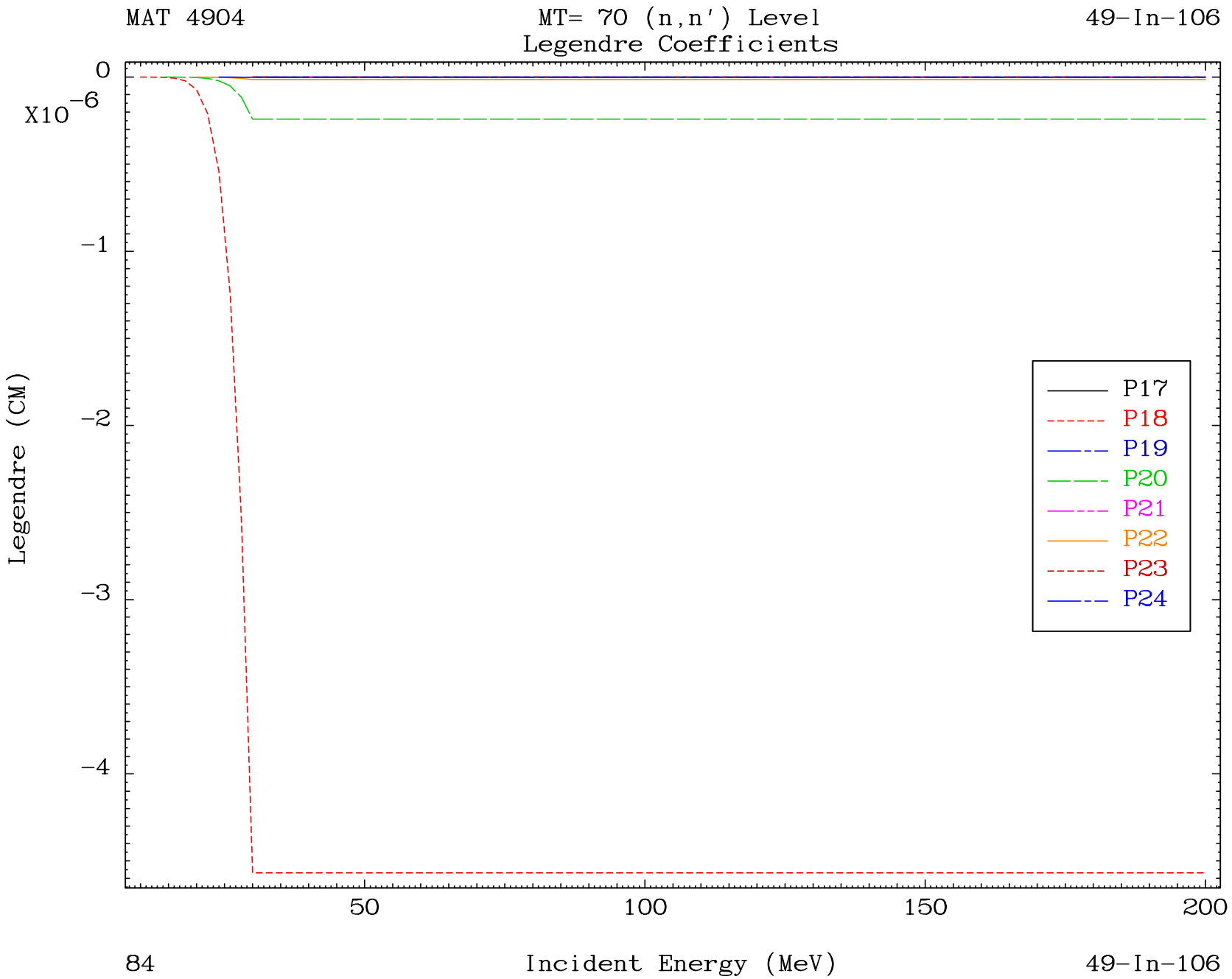

MAT 4904
MT= 69 (n,n') Level
Legendre Coefficients
49-In-106
0.04
0.03
0.02
0.01
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
0
50
100
150
200
79
Incident Energy (MeV)
49-In-106

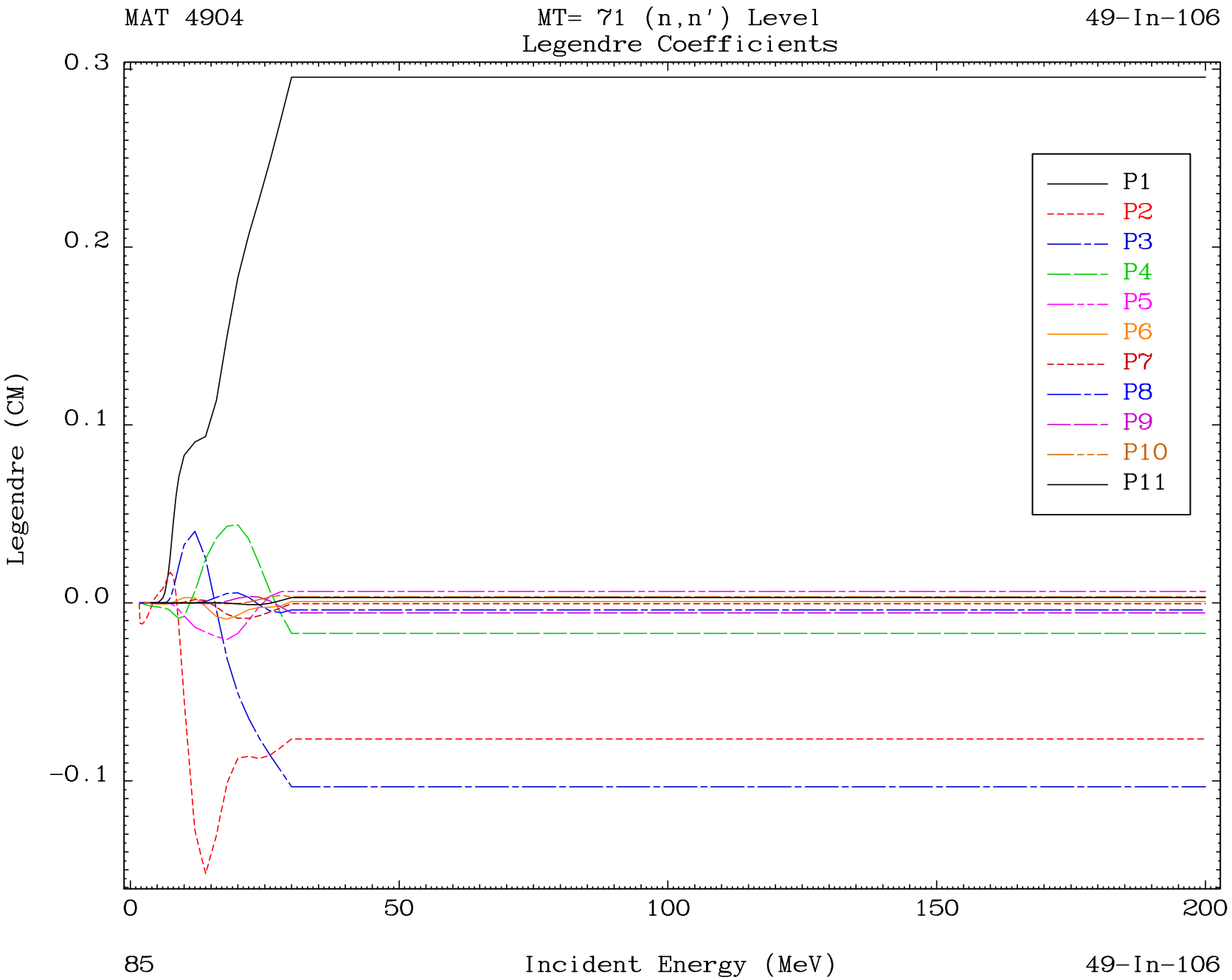

MAT 4904
MT= 69 (n,n') Level
Legendre Coefficients
49-In-106
X10^-5
6
4
2
0
-2
-4
Legendre (CM)
P9
P10
P11
P12
P13
P14
P15
P16
0
50
100
150
200
80
Incident Energy (MeV)
49-In-106

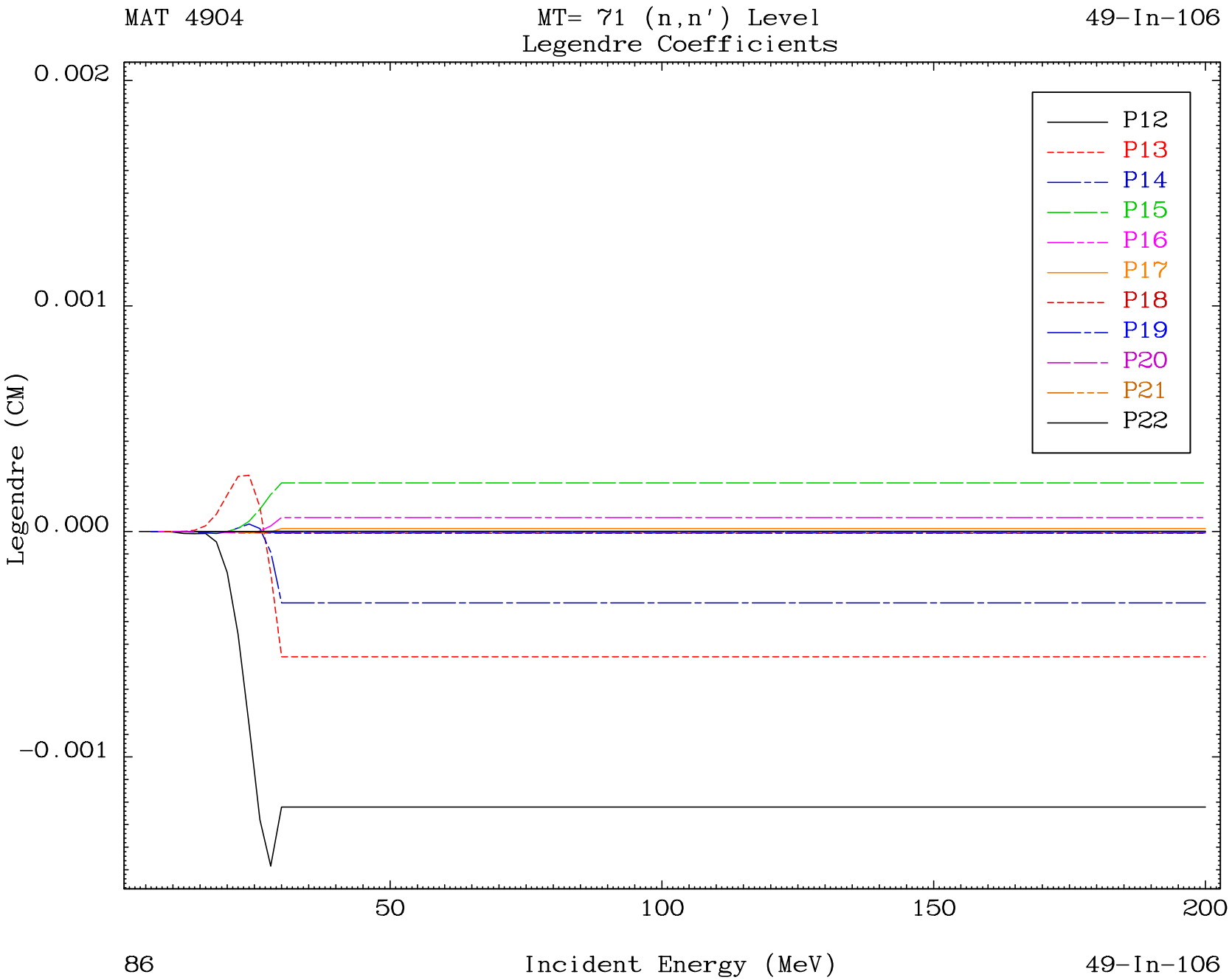

MAT 4904
MT= 69 (n,n') Level
Legendre Coefficients
49-In-106
0.0
X10^-6
-0.2
-0.4
-0.6
-0.8
-1.0
Legendre (CM)
50
100
150
200
81
Incident Energy (MeV)
49-In-106
P17
P18
P19
P20
P21
P22
P23
P24

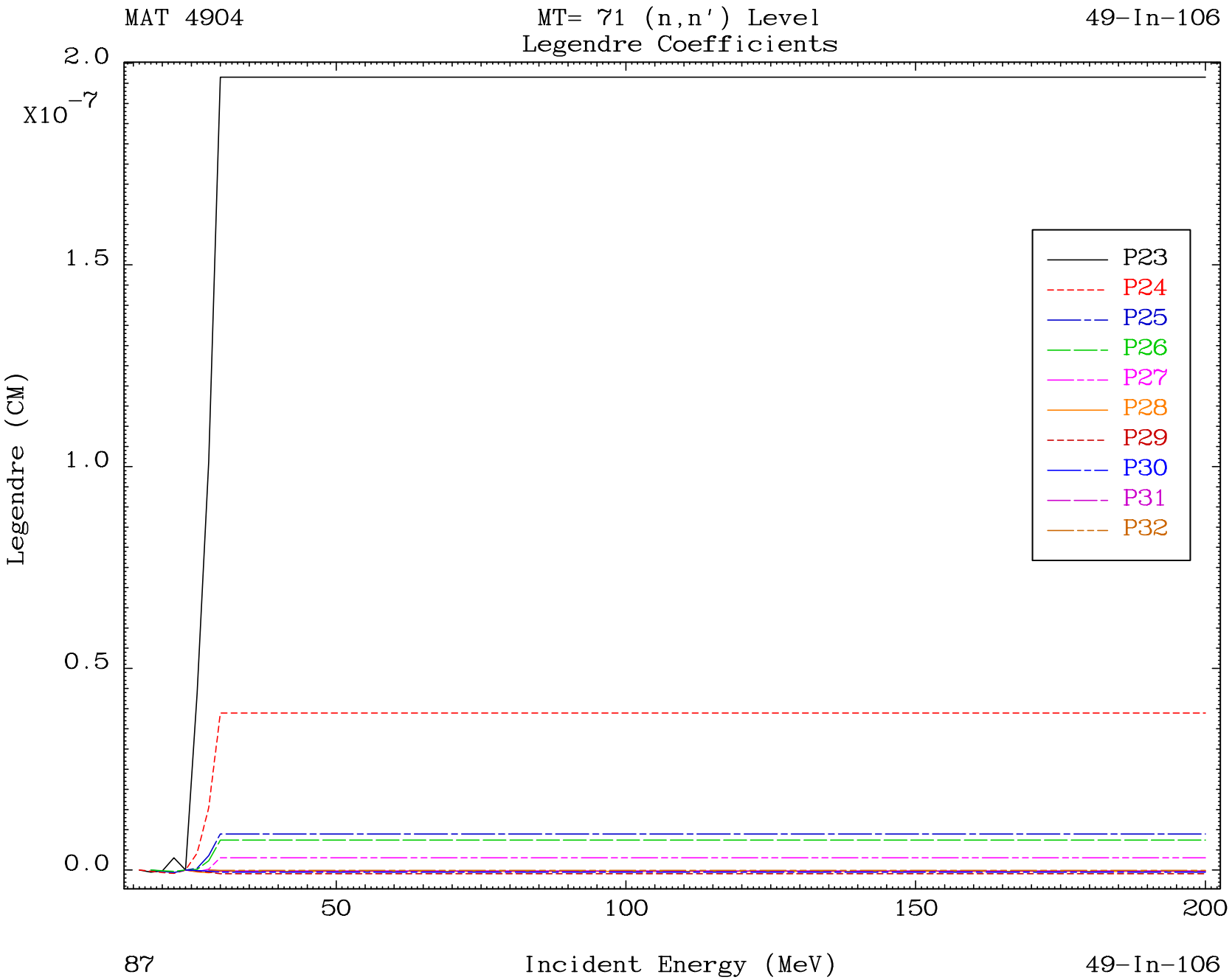

MAT 4904
MT= 70 (n,n') Level
Legendre Coefficients
49-In-106
P1
P2
P3
P4
P5
P6
P7
P8
0.04
0.02
0.00
-0.02
-0.04
Legendre (CM)
0
50
100
150
200
82
Incident Energy (MeV)
49-In-106

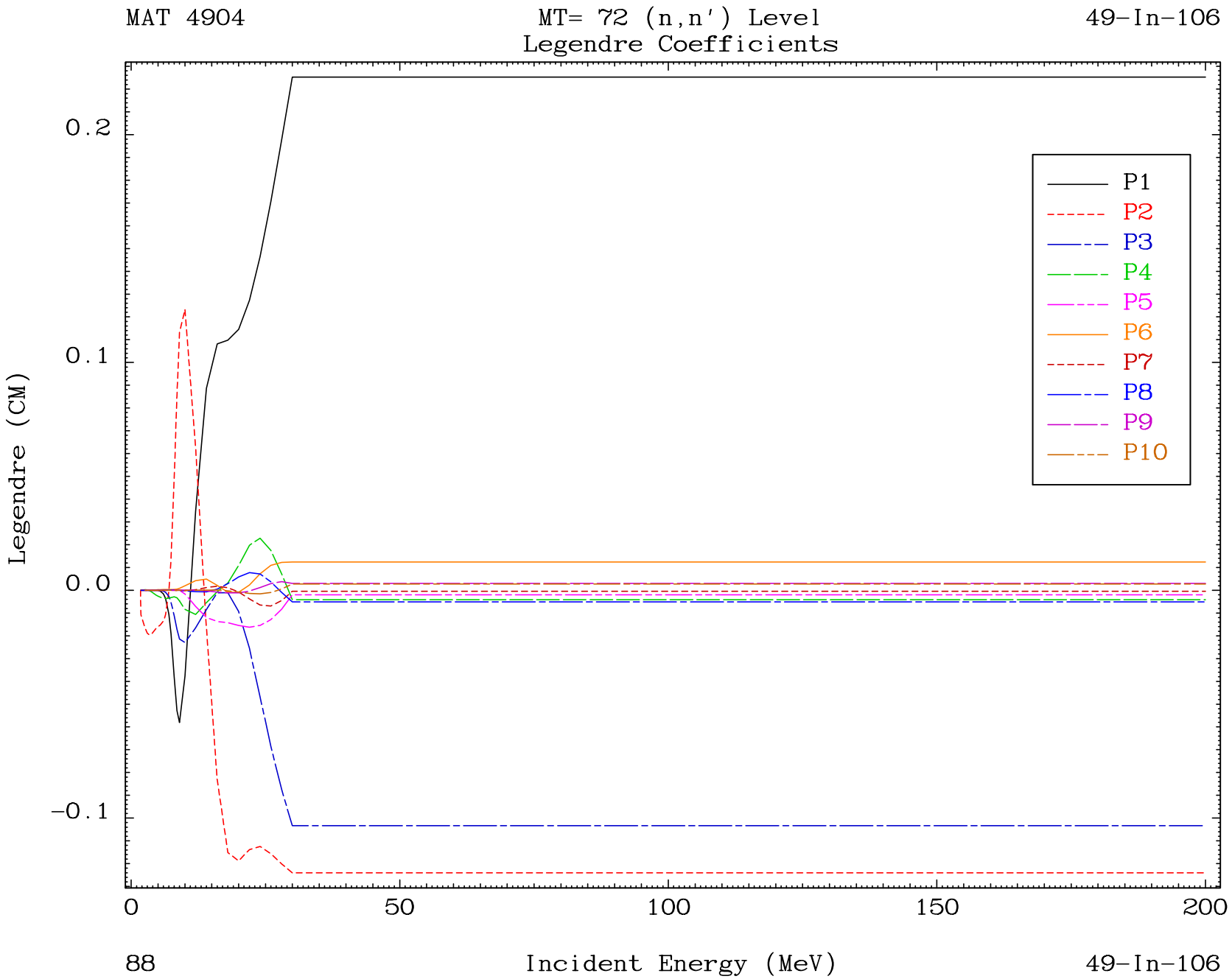

MAT 4904
MT= 70 (n,n') Level
Legendre Coefficients
49-In-106
X10^-4
0
-1
-2
-3
-4
Legendre (CM)
P9
P10
P11
P12
P13
P14
P15
P16
0
50
100
150
200
83
Incident Energy (MeV)
49-In-106

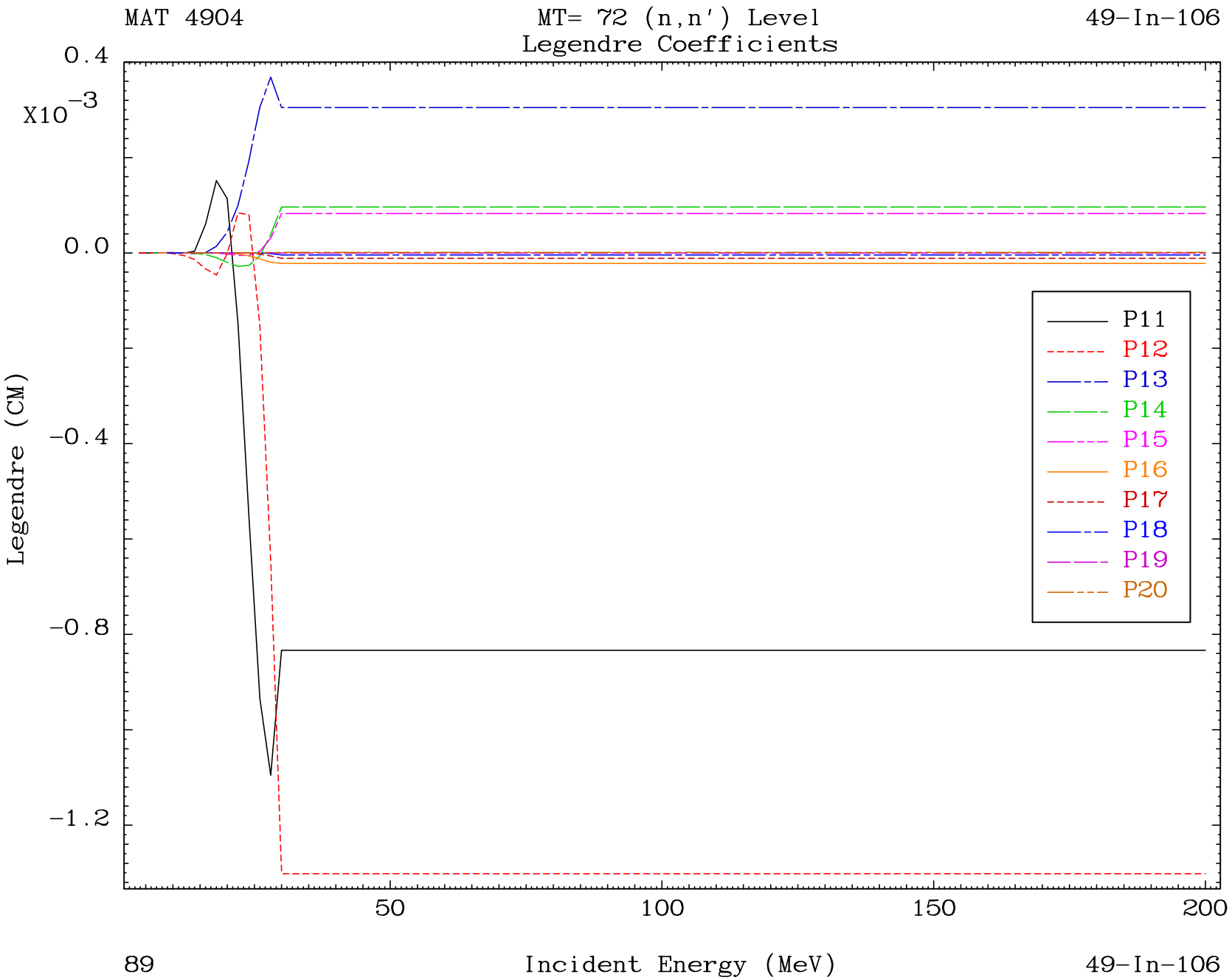

MAT 4904
MT= 70 (n,n') Level
Legendre Coefficients
49-In-106
0
X10^-6
-1
-2
-3
-4
Legendre (CM)
50
100
150
200
84
Incident Energy (MeV)
49-In-106
P17
P18
P19
P20
P21
P22
P23
P24

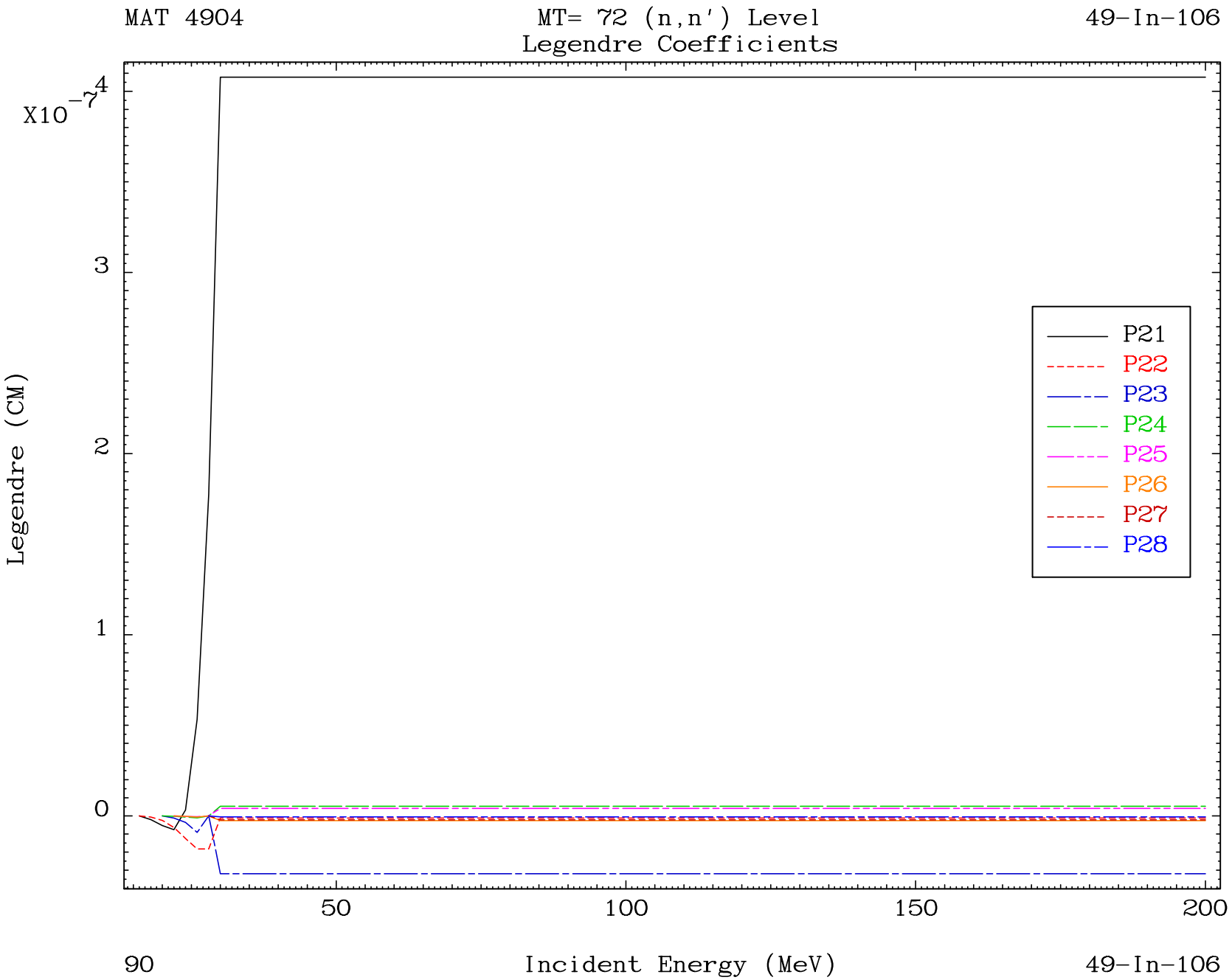

MAT 4904
MT= 71 (n,n') Level
Legendre Coefficients
49-In-106
0.3
0.2
0.1
0.0
-0.1
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11
0
50
100
150
200
85
Incident Energy (MeV)
49-In-106

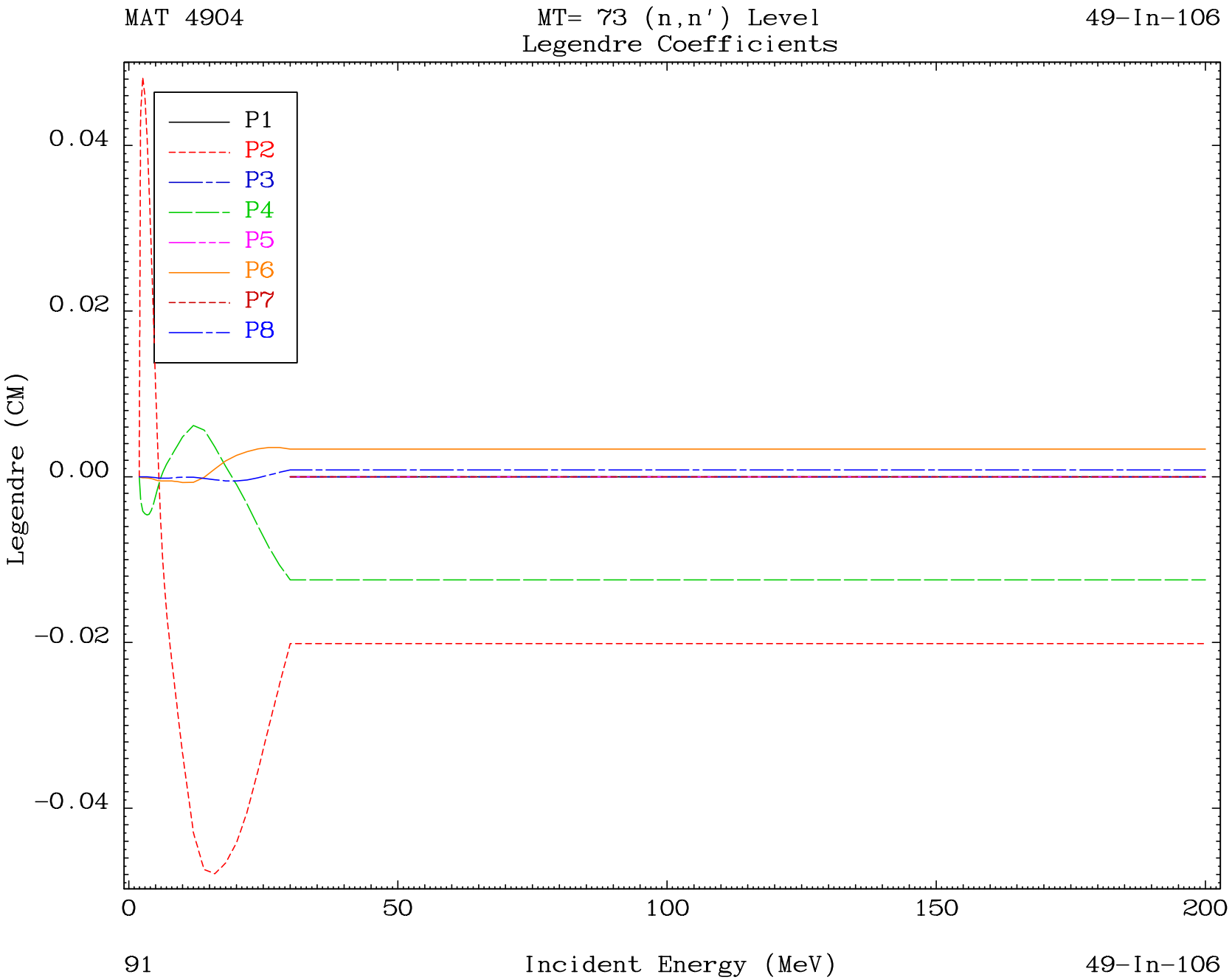

MAT 4904
MT= 71 (n,n') Level
Legendre Coefficients
49-In-106
0.002
0.001
0.000
-0.001
Legendre (CM)
P12
P13
P14
P15
P16
P17
P18
P19
P20
P21
P22
50
100
150
200
86
Incident Energy (MeV)
49-In-106

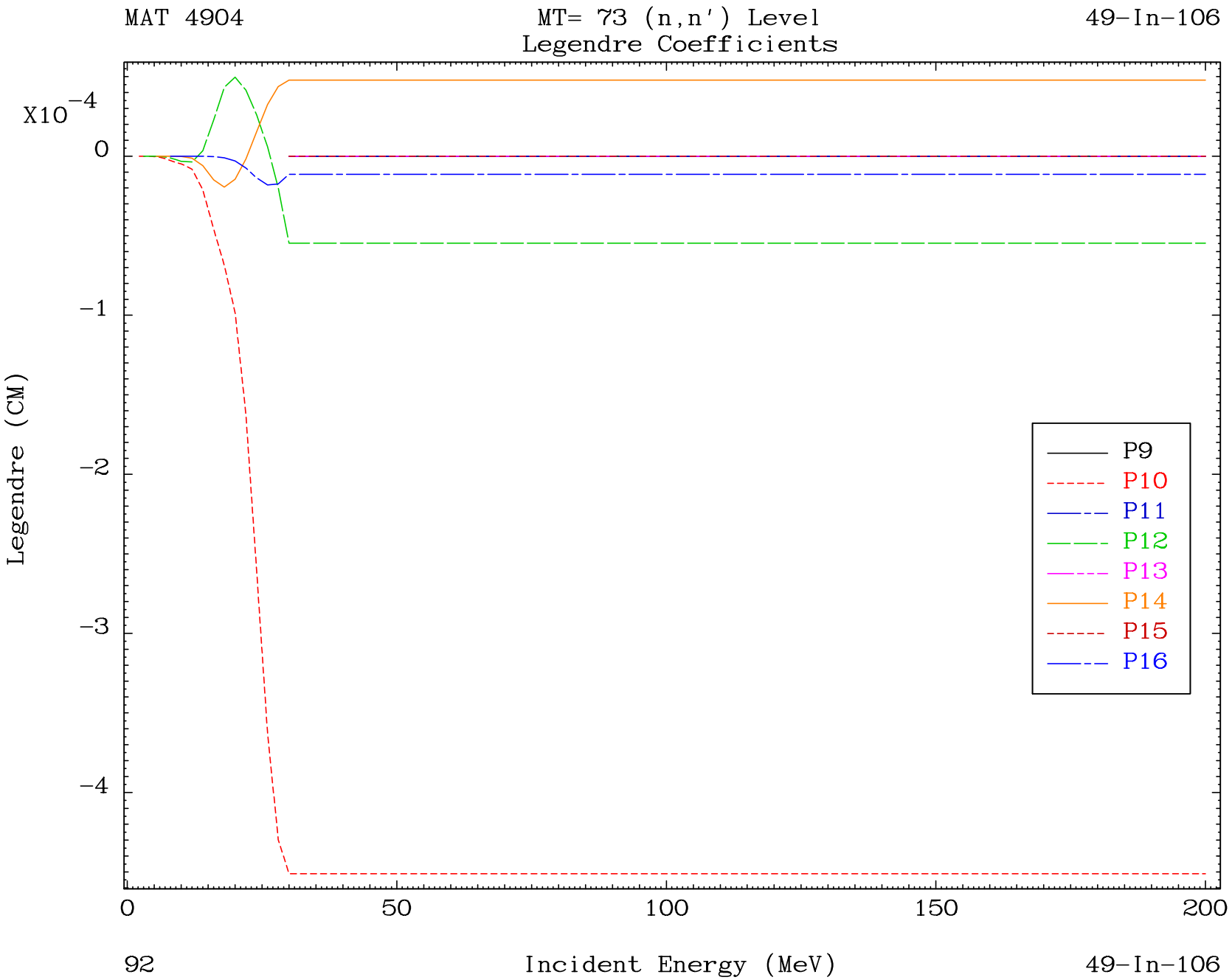

MAT 4904
MT= 71 (n,n') Level
Legendre Coefficients
49-In-106
2.0
X10^-7
1.5
1.0
0.5
0.0
Legendre (CM)
P23
P24
P25
P26
P27
P28
P29
P30
P31
P32
50
100
150
200
87
Incident Energy (MeV)
49-In-106

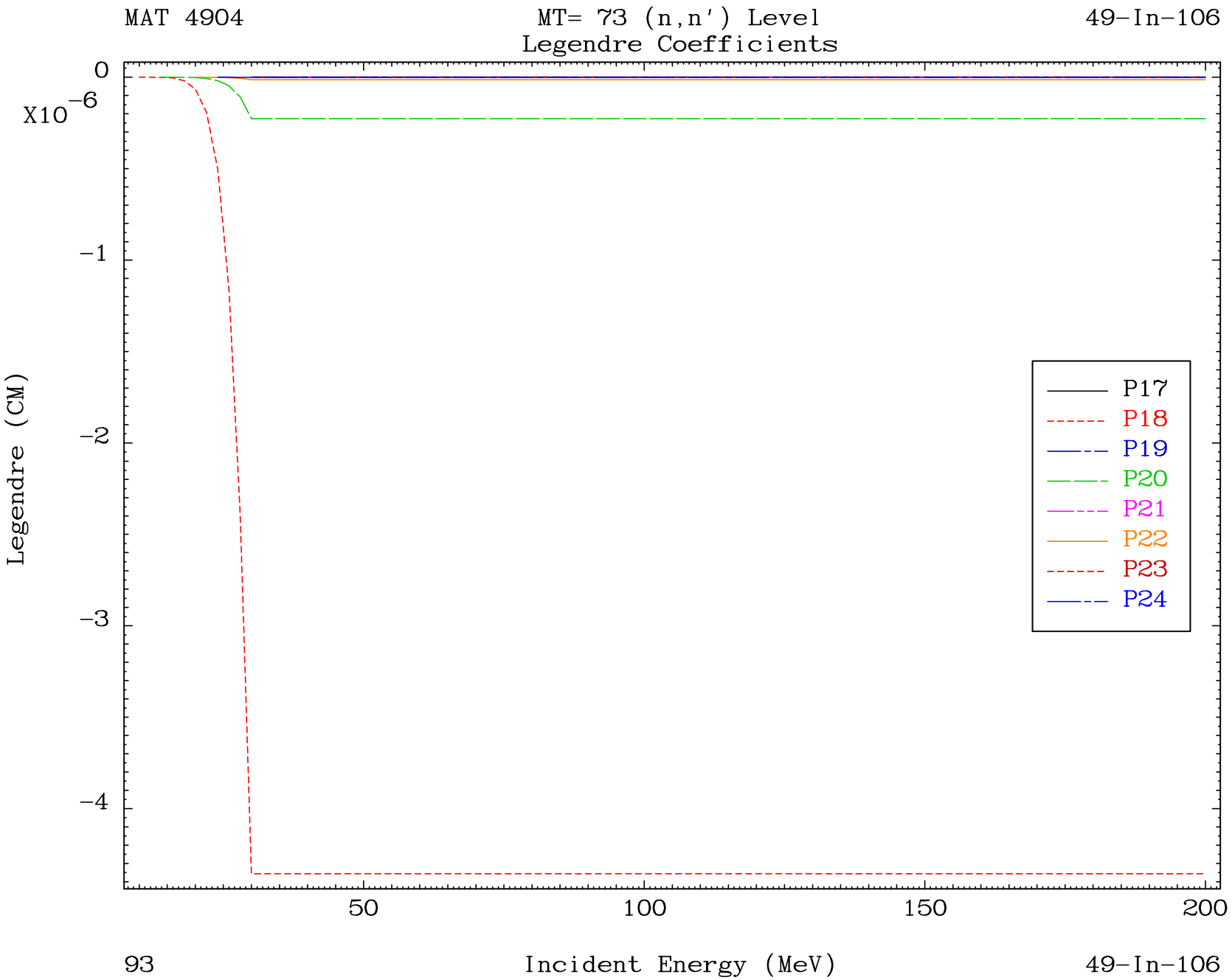

MAT 4904
MT= 72 (n,n') Level
Legendre Coefficients
49-In-106
0.2
0.1
0.0
-0.1
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
0
50
100
150
200
88
Incident Energy (MeV)
49-In-106

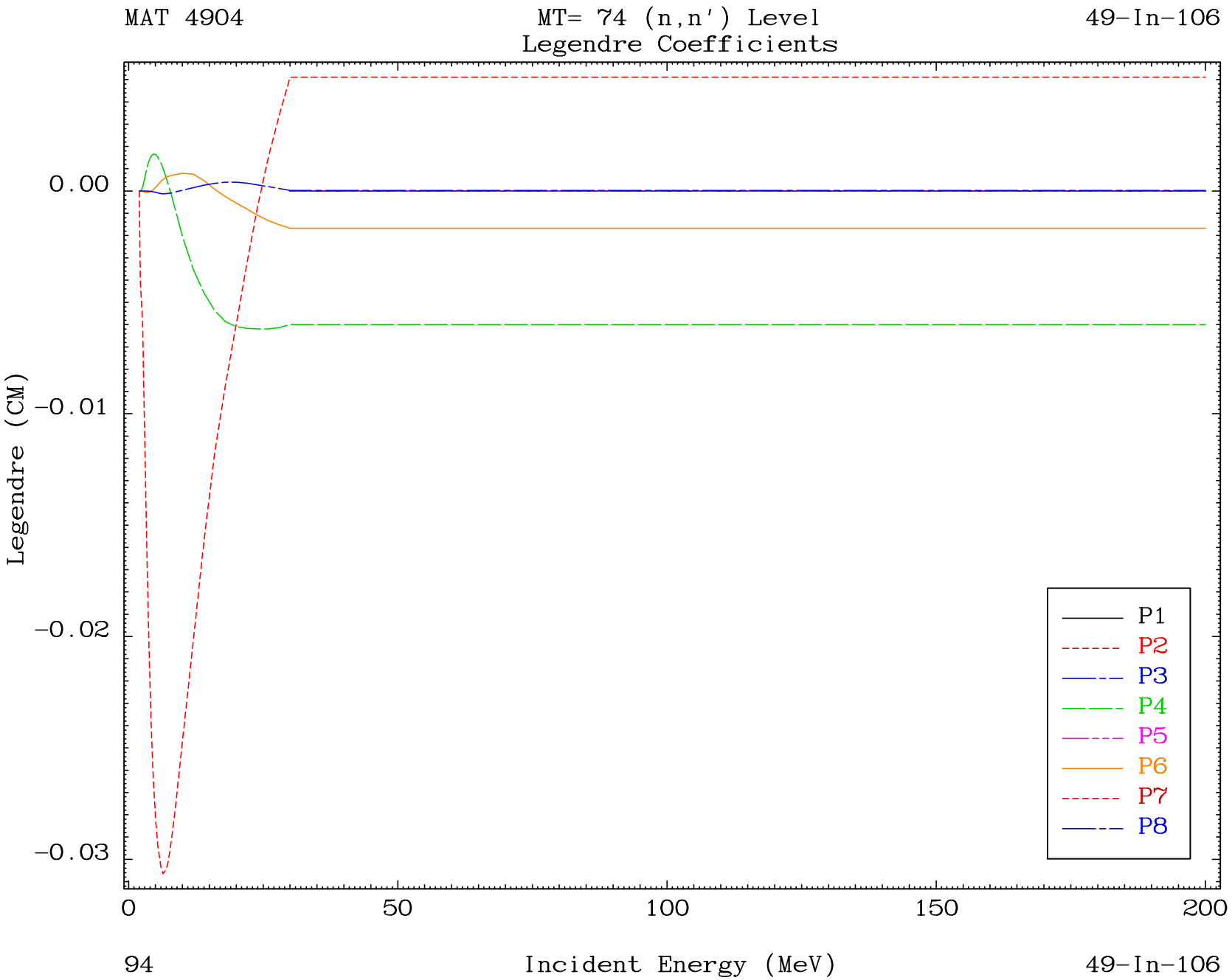

MAT 4904
MT= 72 (n,n') Level
Legendre Coefficients
49-In-106
0.4
X10^-3
0.0
-0.4
-0.8
-1.2
Legendre (CM)
50
100
150
200
89
Incident Energy (MeV)
49-In-106
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20

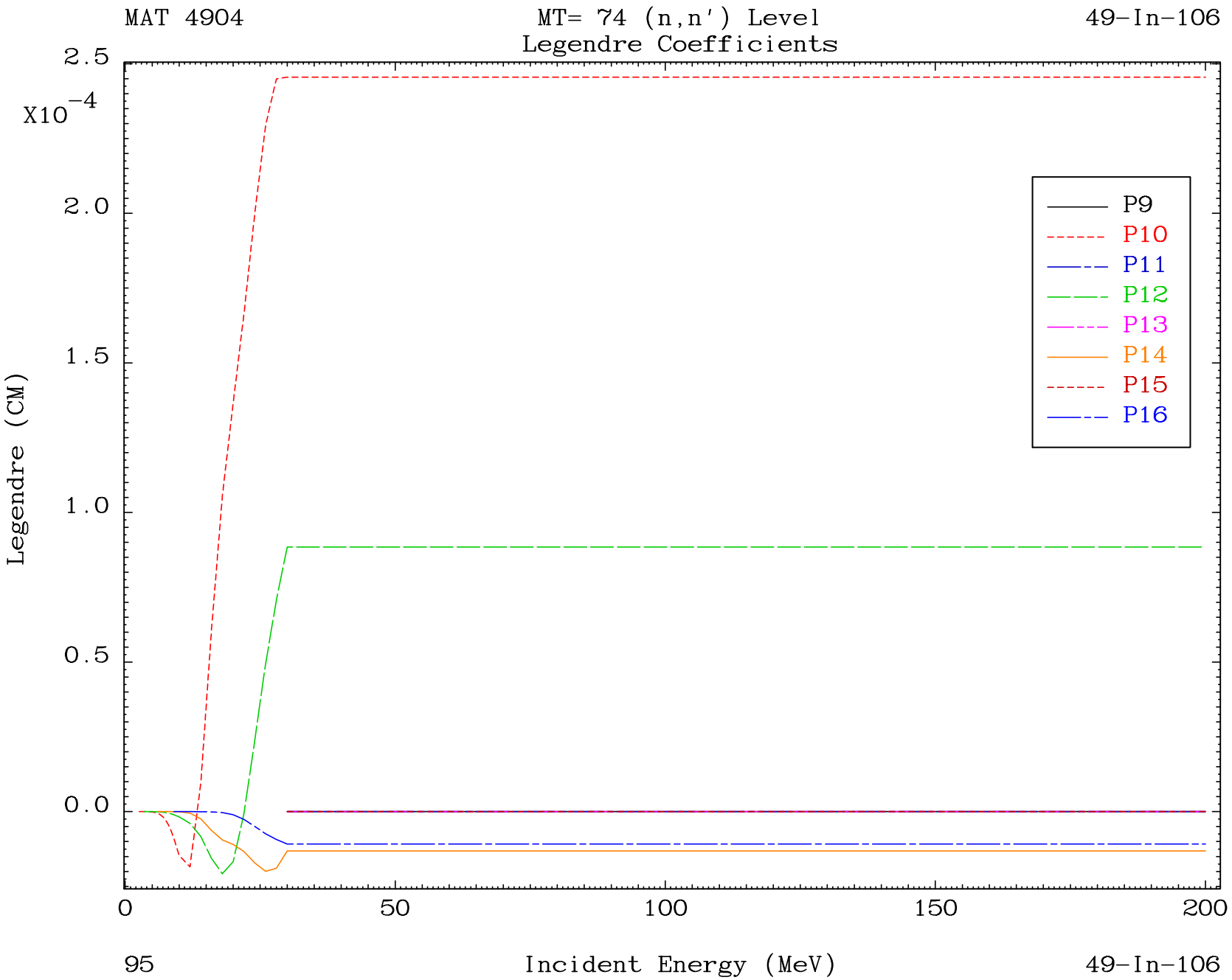

MAT 4904
MT= 72 (n,n') Level
Legendre Coefficients
49-In-106
X10-7
4
3
2
1
0
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
50
100
150
200
90
Incident Energy (MeV)
49-In-106

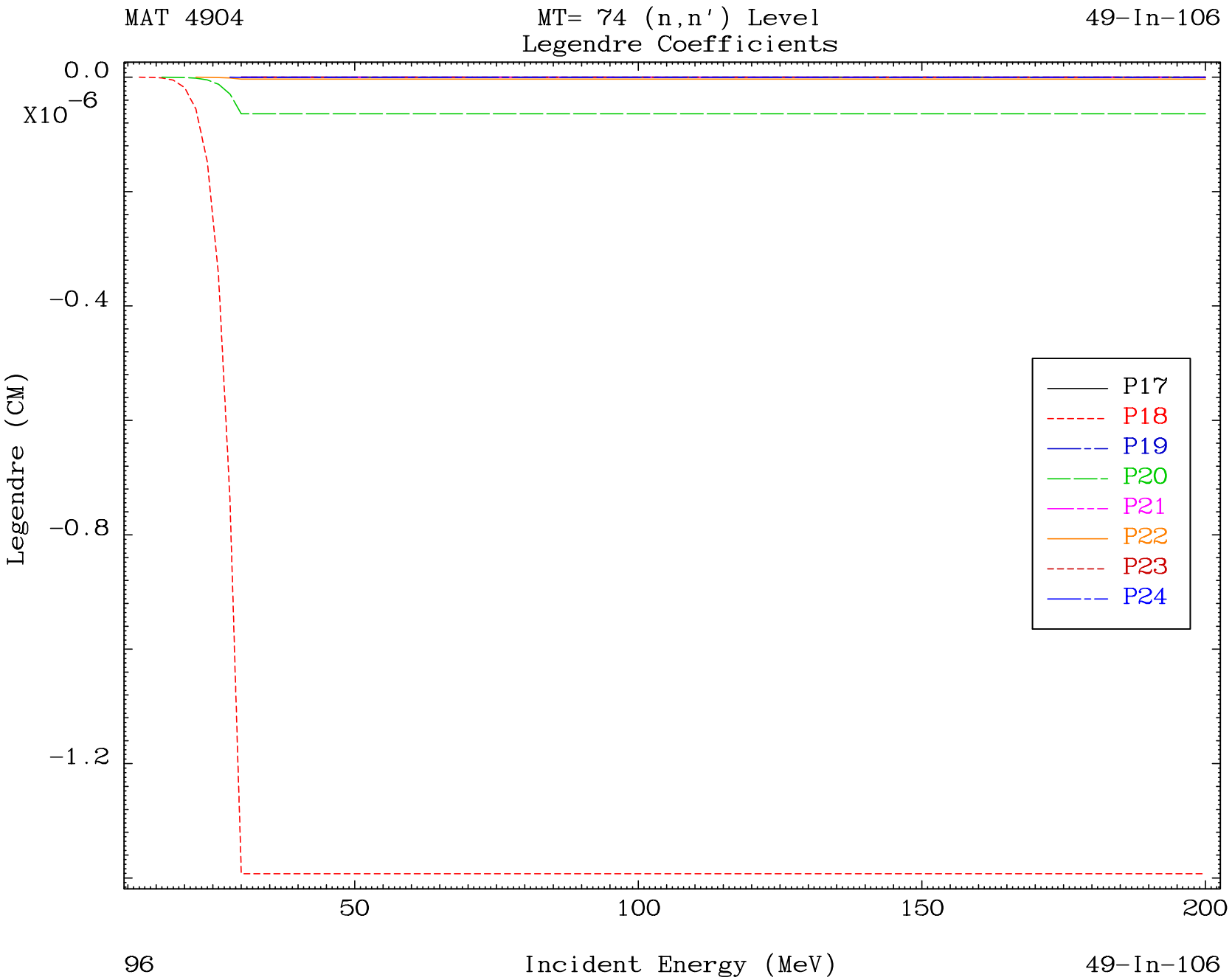

MAT 4904
MT= 73 (n,n') Level
Legendre Coefficients
49-In-106
P1
P2
P3
P4
P5
P6
P7
P8
0.04
0.02
0.00
-0.02
-0.04
Legendre (CM)
0
50
100
150
200
91
Incident Energy (MeV)
49-In-106

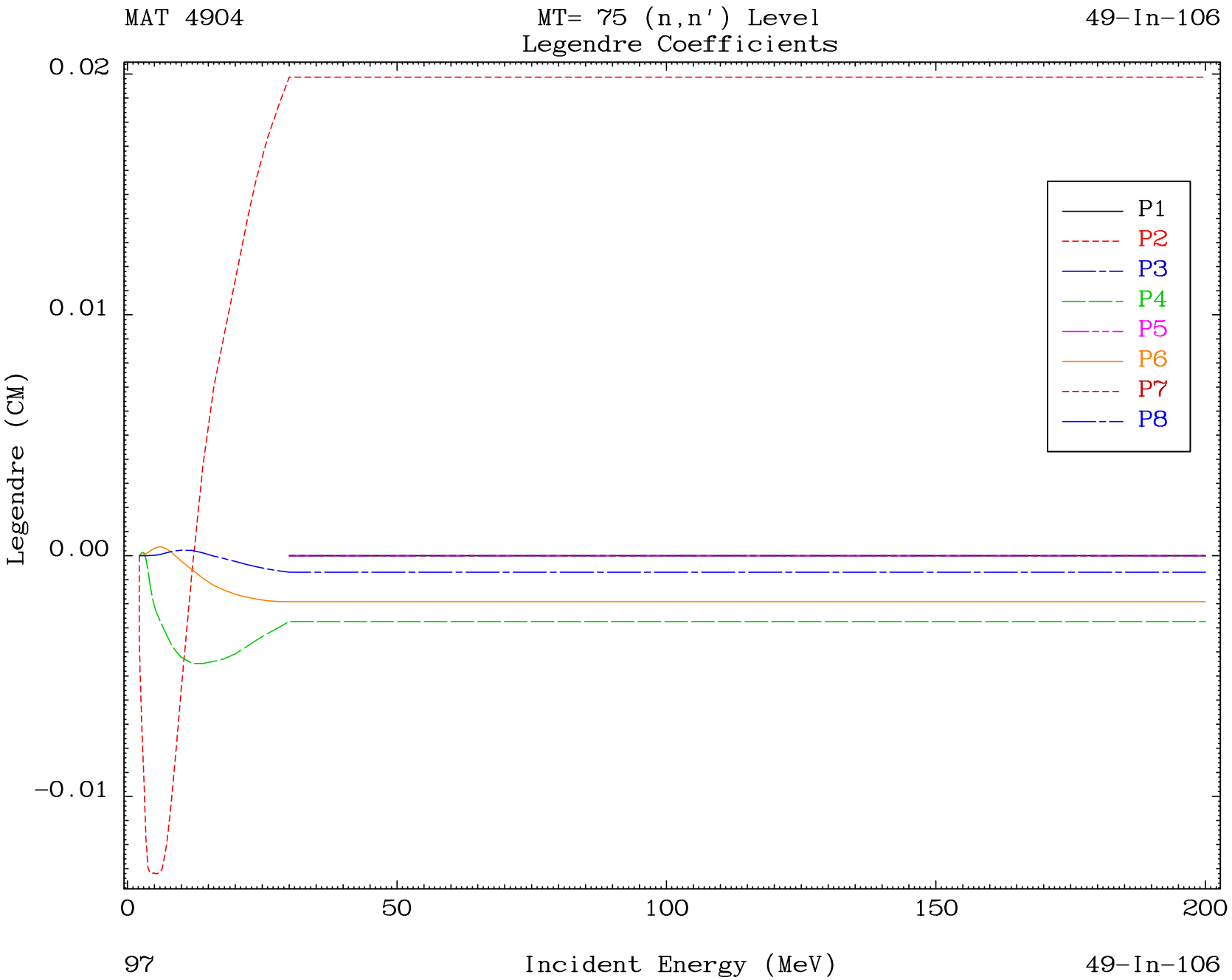

MAT 4904
MT= 73 (n,n') Level
Legendre Coefficients
49-In-106
X10^-4
0
-1
-2
-3
-4
Legendre (CM)
0
50
100
150
200
92
Incident Energy (MeV)
49-In-106
P9
P10
P11
P12
P13
P14
P15
P16

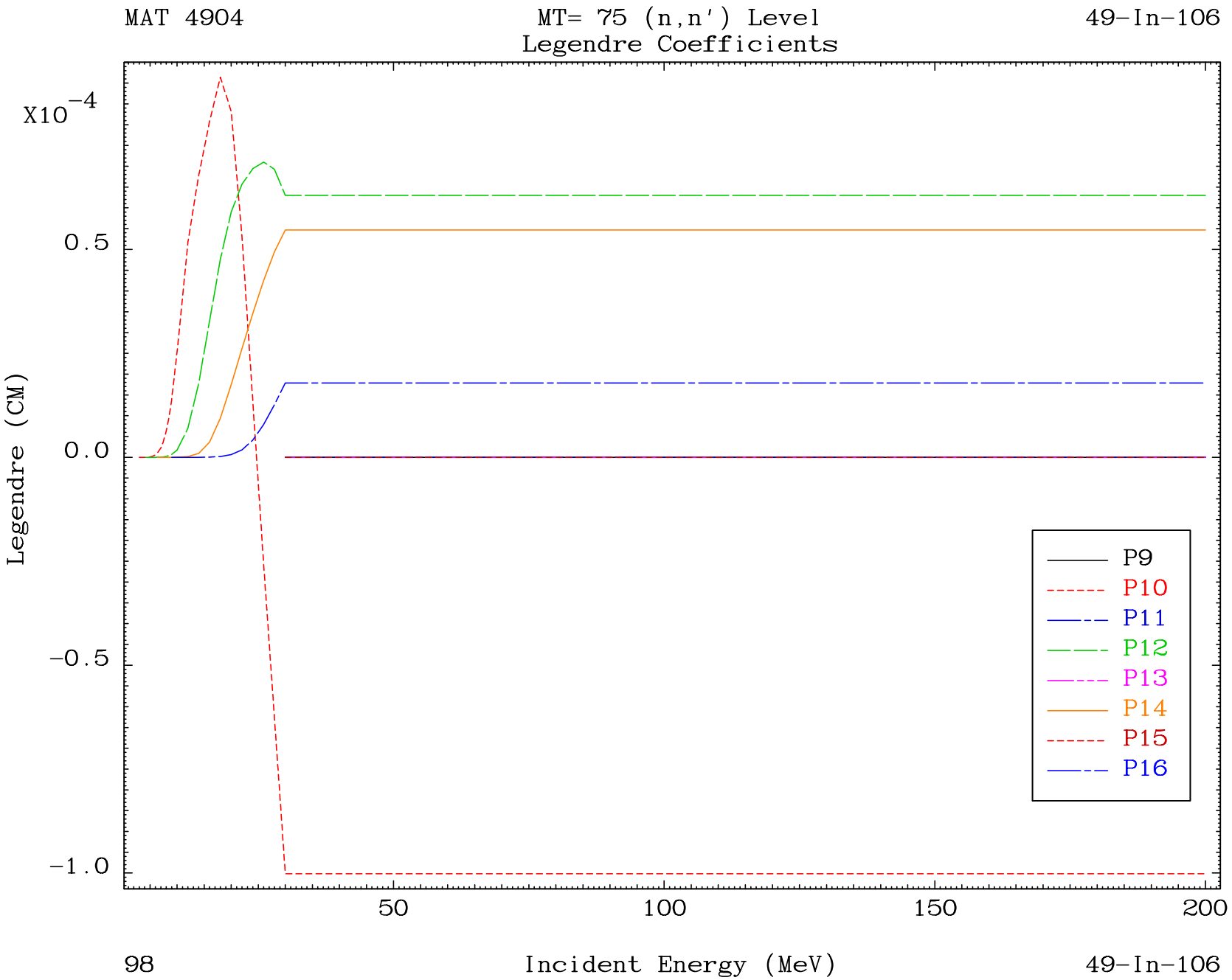

MAT 4904
MT= 73 (n,n') Level
Legendre Coefficients
49-In-106
0
X10^-6
-1
-2
-3
-4
Legendre (CM)
50
100
150
200
93
Incident Energy (MeV)
49-In-106
P17
P18
P19
P20
P21
P22
P23
P24

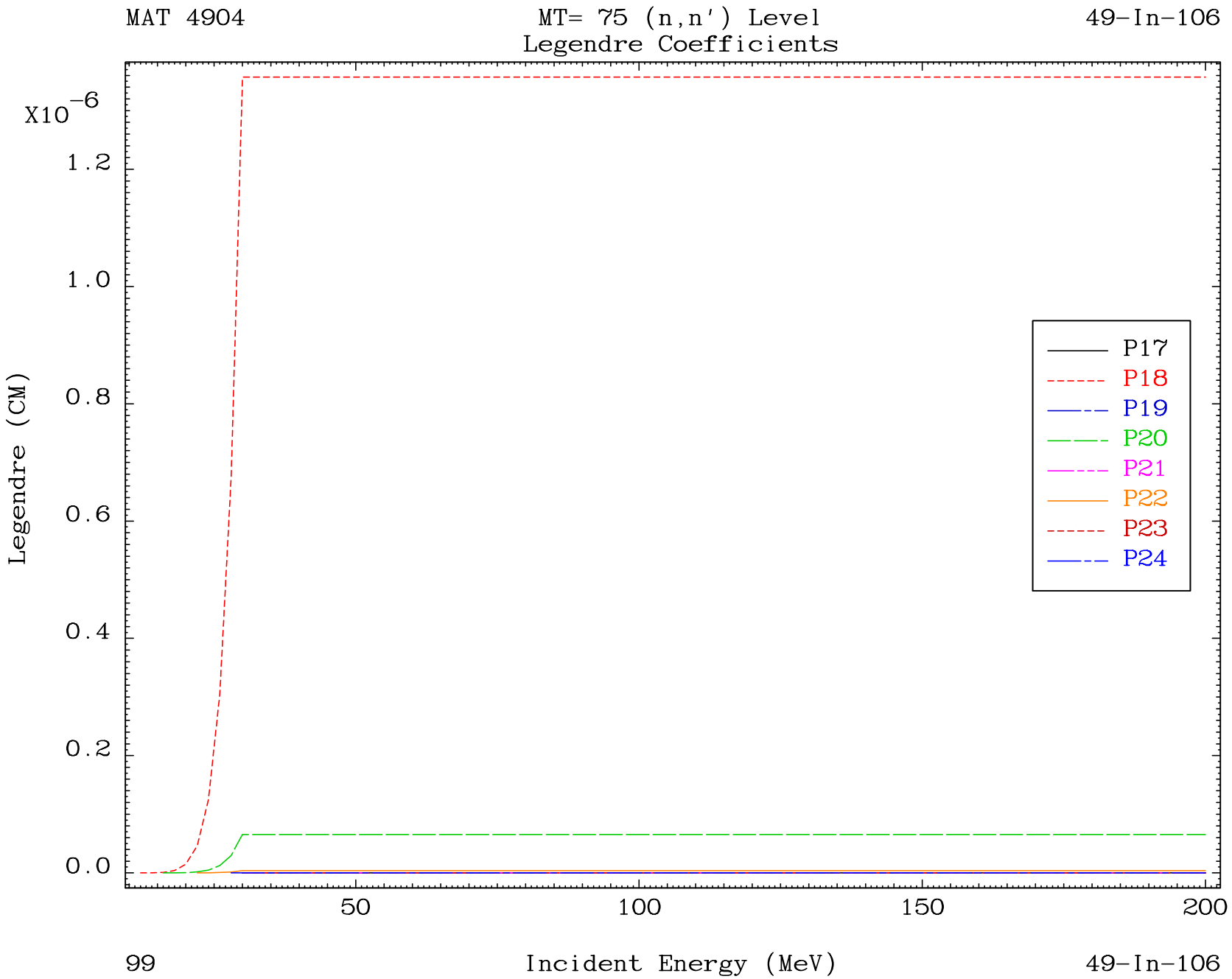

MAT 4904
MT= 74 (n,n') Level
Legendre Coefficients
49-In-106
0.00
-0.01
-0.02
-0.03
Legendre (CM)
0
50
100
150
200
94
Incident Energy (MeV)
49-In-106
P1
P2
P3
P4
P5
P6
P7
P8

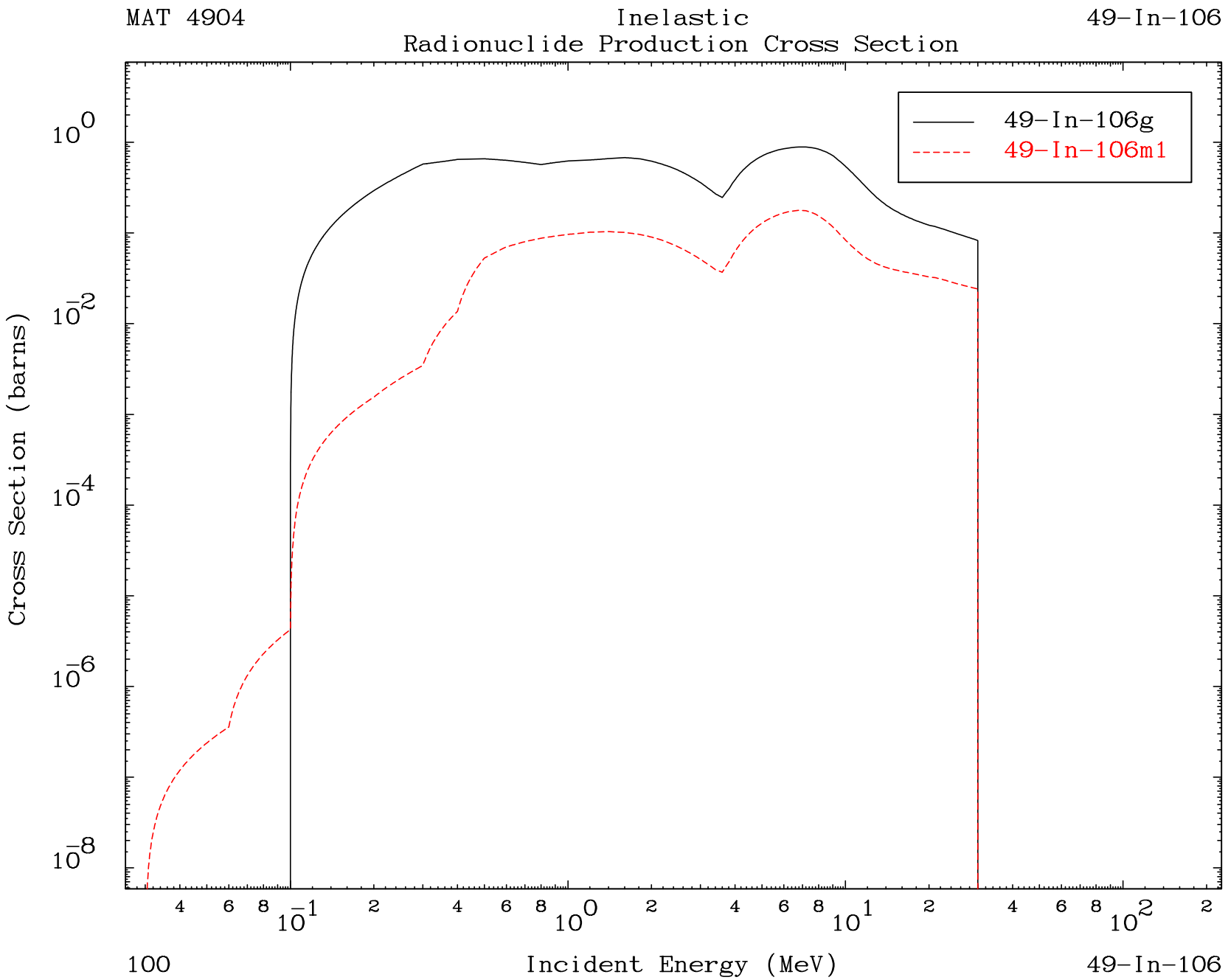

MAT 4904
MT= 74 (n,n') Level
Legendre Coefficients
49-In-106
X10^-4
2.5
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P9
P10
P11
P12
P13
P14
P15
P16
0
50
100
150
200
95
Incident Energy (MeV)
49-In-106

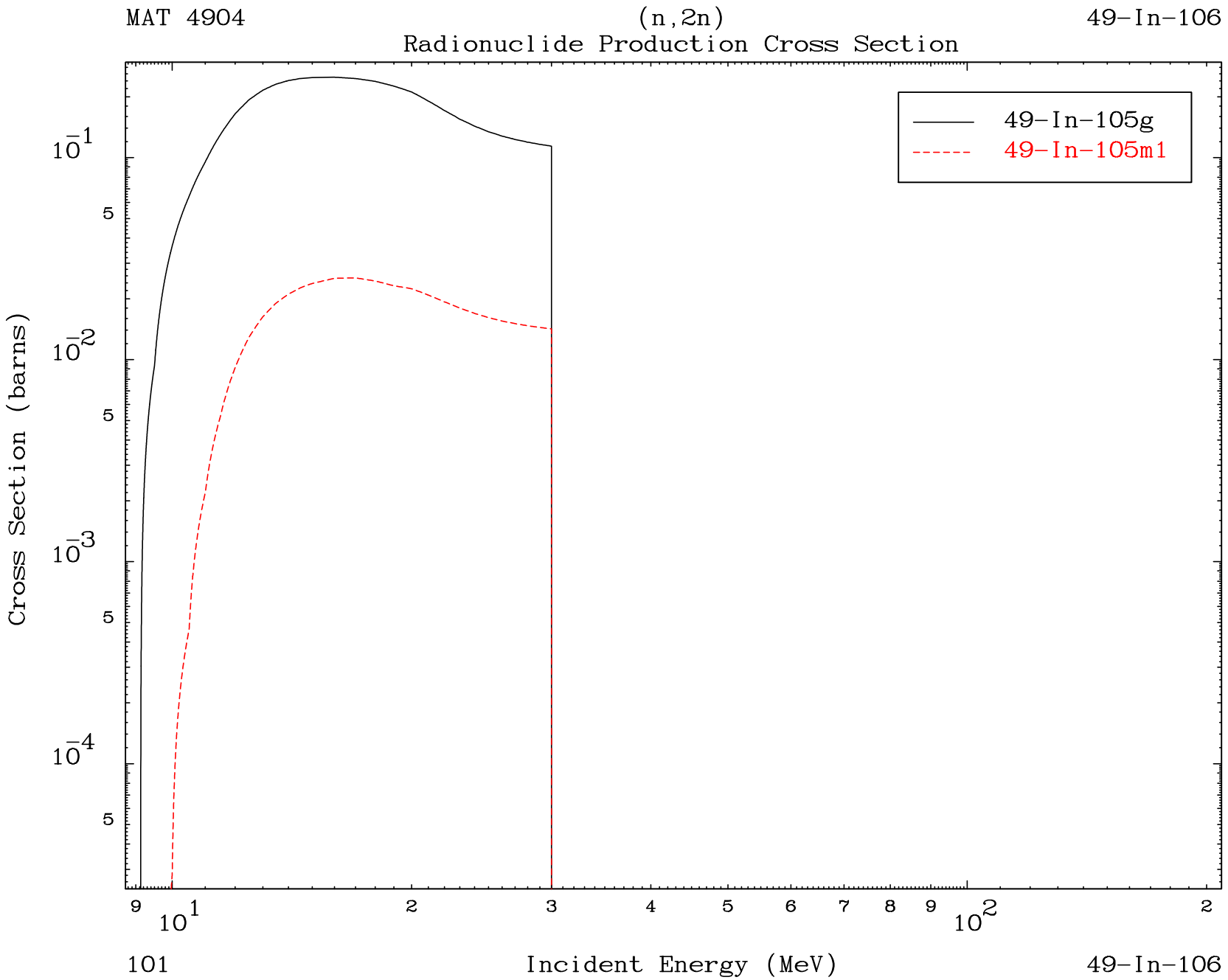

MAT 4904
MT= 74 (n,n') Level
Legendre Coefficients
49-In-106
0.0
X10^-6
-0.4
-0.8
-1.2
Legendre (CM)
50
100
150
200
96
Incident Energy (MeV)
49-In-106
P17
P18
P19
P20
P21
P22
P23
P24

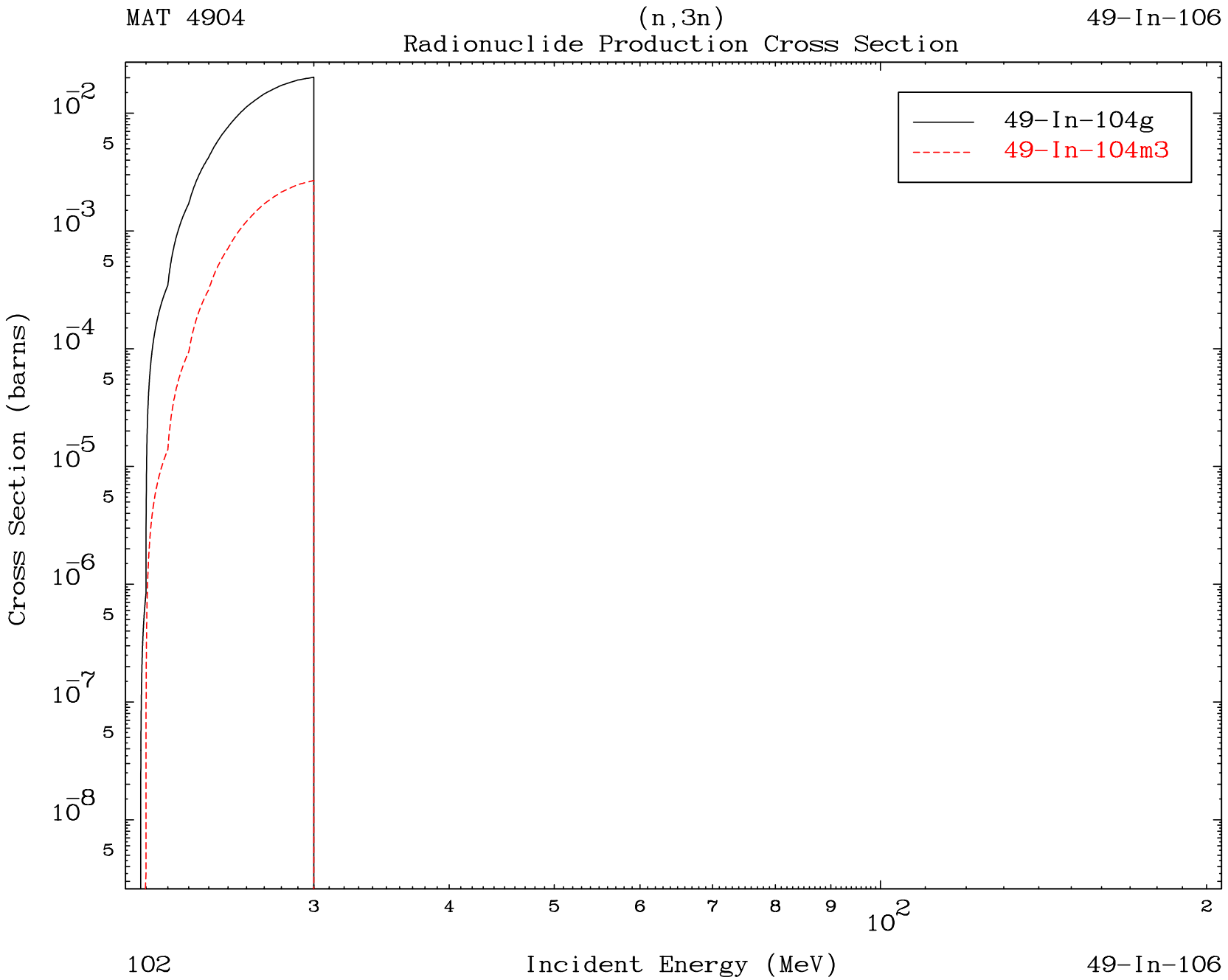

MAT 4904
MT= 75 (n,n') Level
Legendre Coefficients
49-In-106
0.02
0.01
0.00
-0.01
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
0
50
100
150
200
97
Incident Energy (MeV)
49-In-106

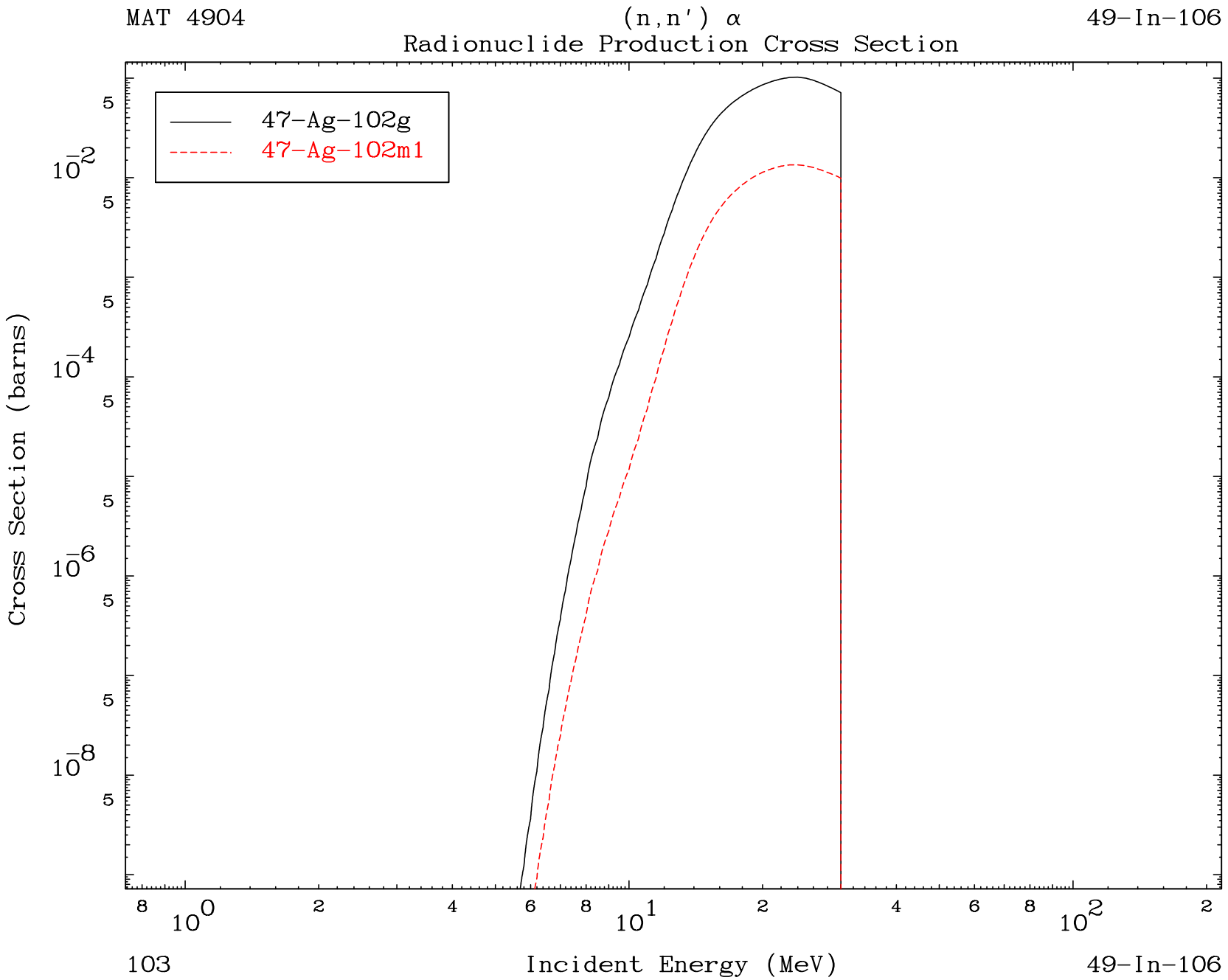

MAT 4904
MT= 75 (n,n') Level
Legendre Coefficients
49-In-106
X10^-4
0.5
0.0
-0.5
-1.0
Legendre (CM)
50
100
150
200
98
Incident Energy (MeV)
49-In-106
P9
P10
P11
P12
P13
P14
P15
P16

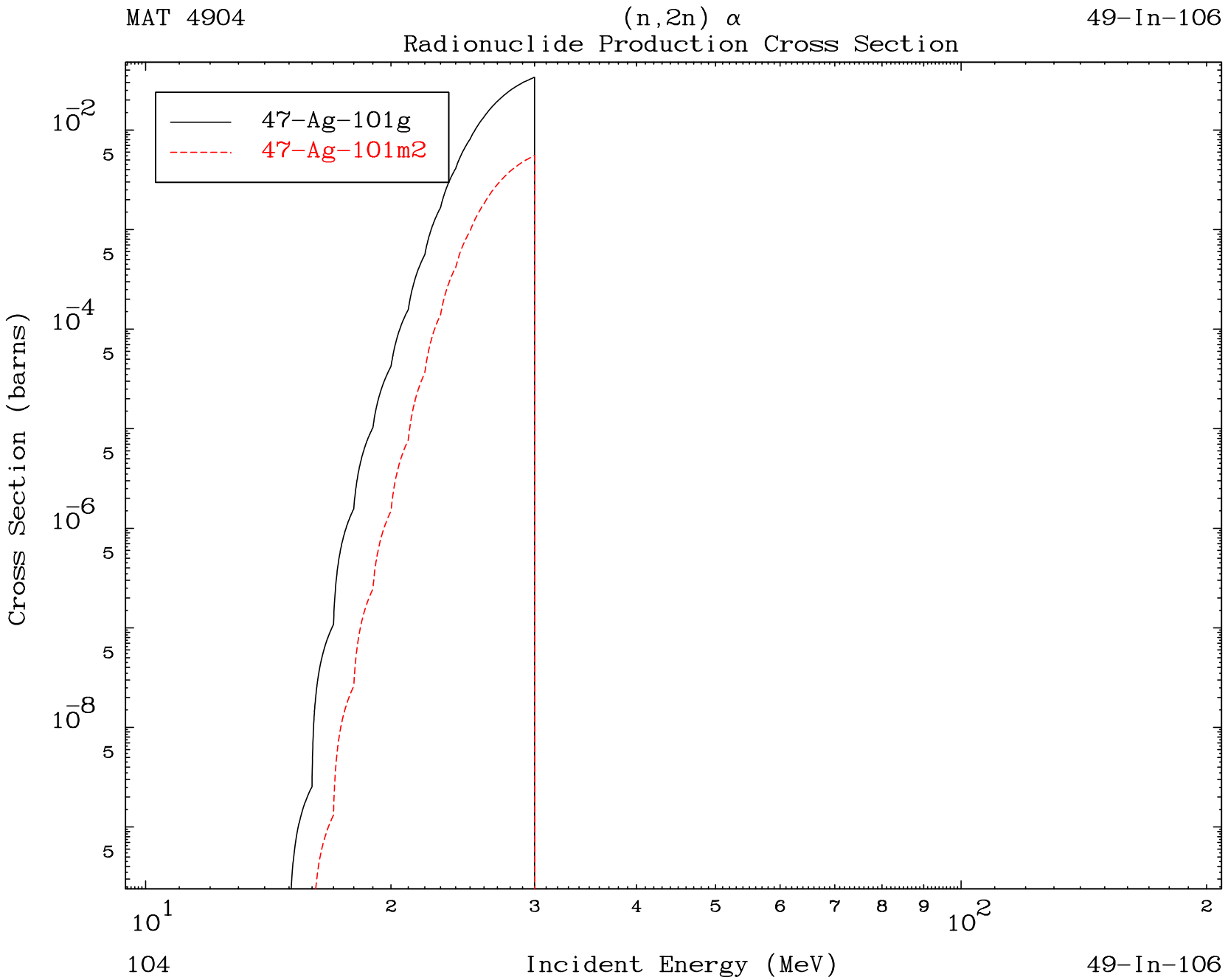

MAT 4904
MT= 75 (n,n') Level
Legendre Coefficients
49-In-106
X10^-6
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
P17
P18
P19
P20
P21
P22
P23
P24
50
100
150
200
99
Incident Energy (MeV)
49-In-106

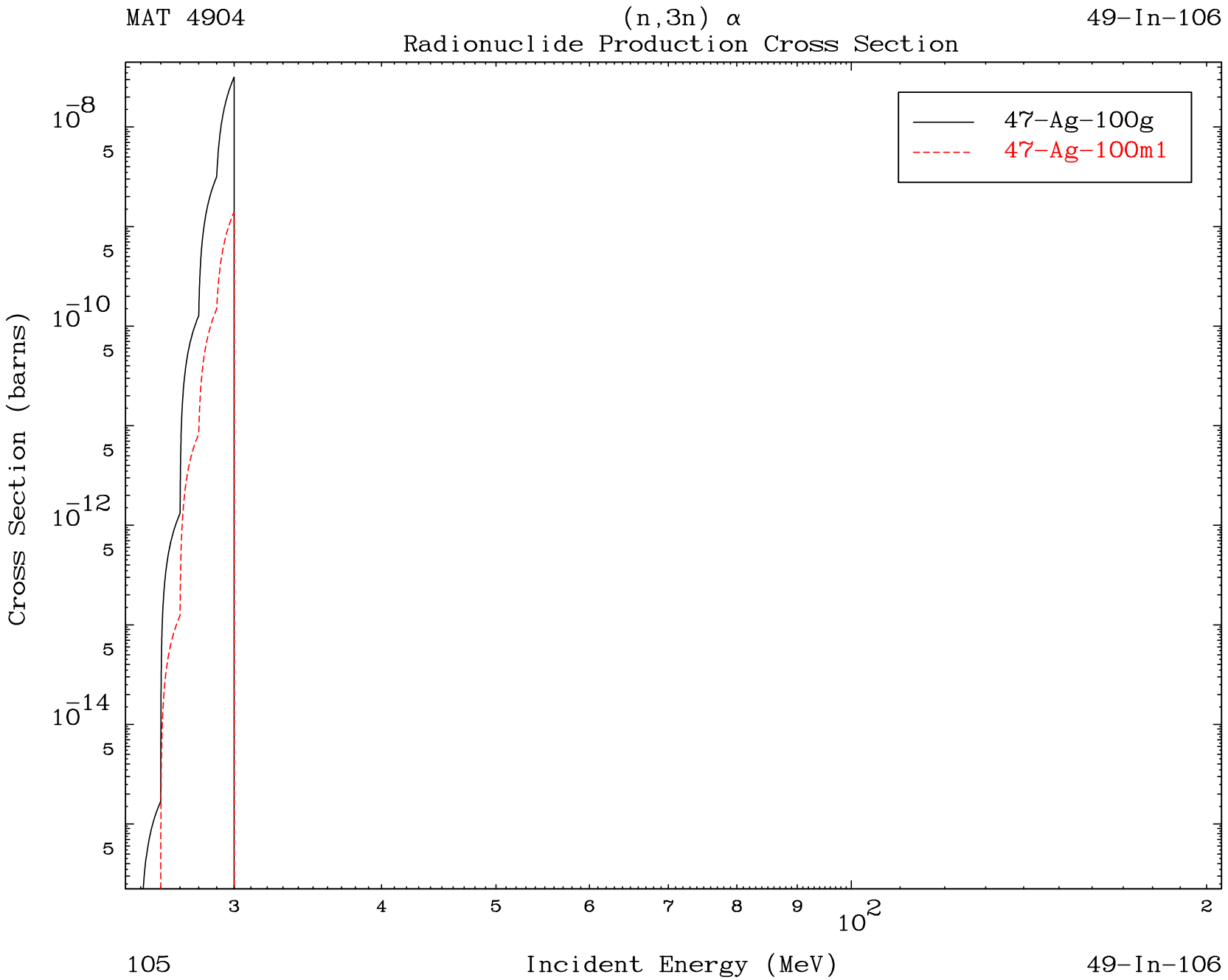

MAT 4904
Inelastic
49-In-106
Radionuclide Production Cross Section
49-In-106g
49-In-106m1
Cross Section (barns)
Incident Energy (MeV)
100
49-In-106

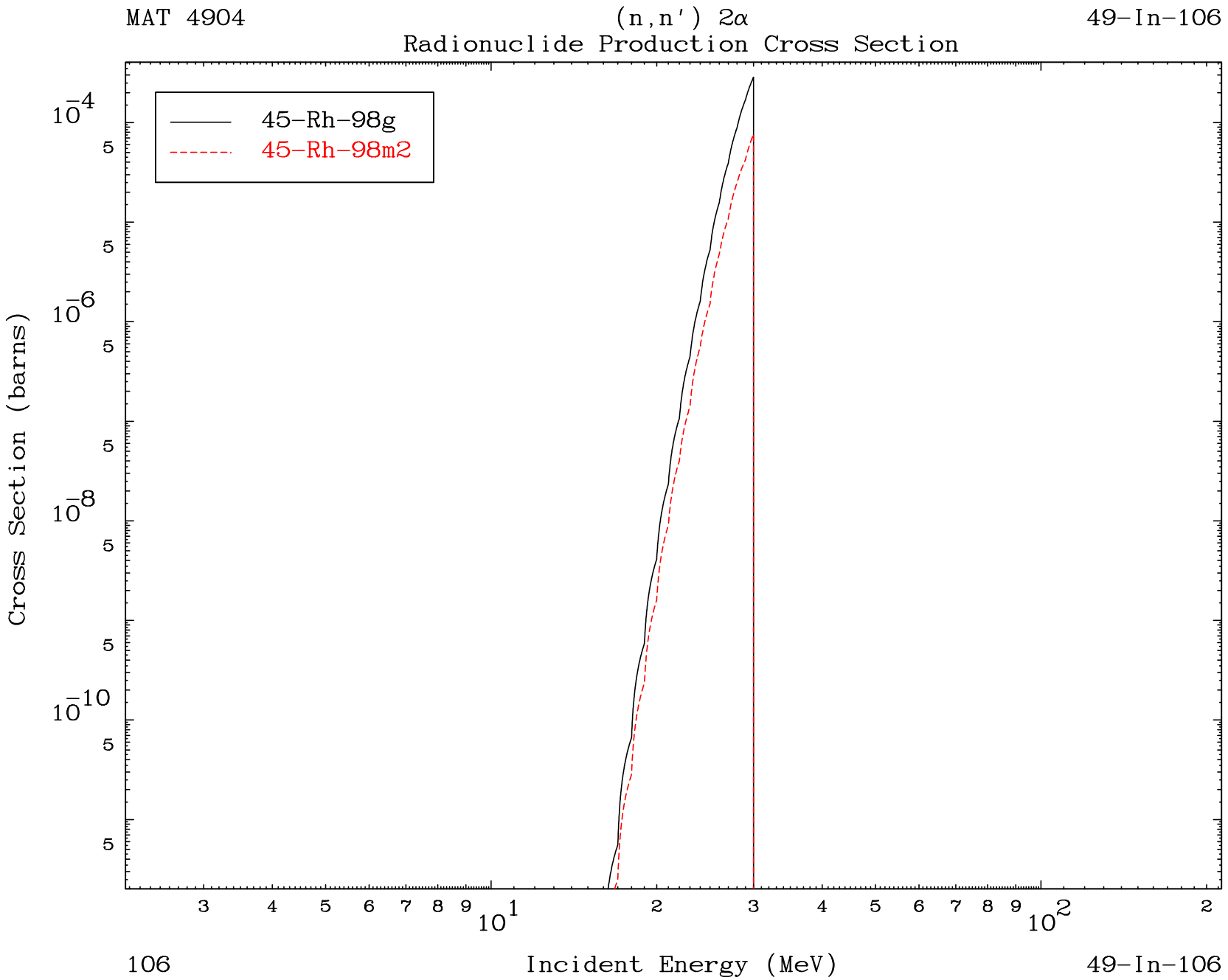

MAT 4904
(n,2n)
49-In-106
Radionuclide Production Cross Section
49-In-105g
49-In-105m1
Cross Section (barns)
10-1
5
10-2
5
10-3
5
10-4
5
9
10 1
2
3
4
5
6
7
8
9
10 2
2
101
Incident Energy (MeV)
49-In-106

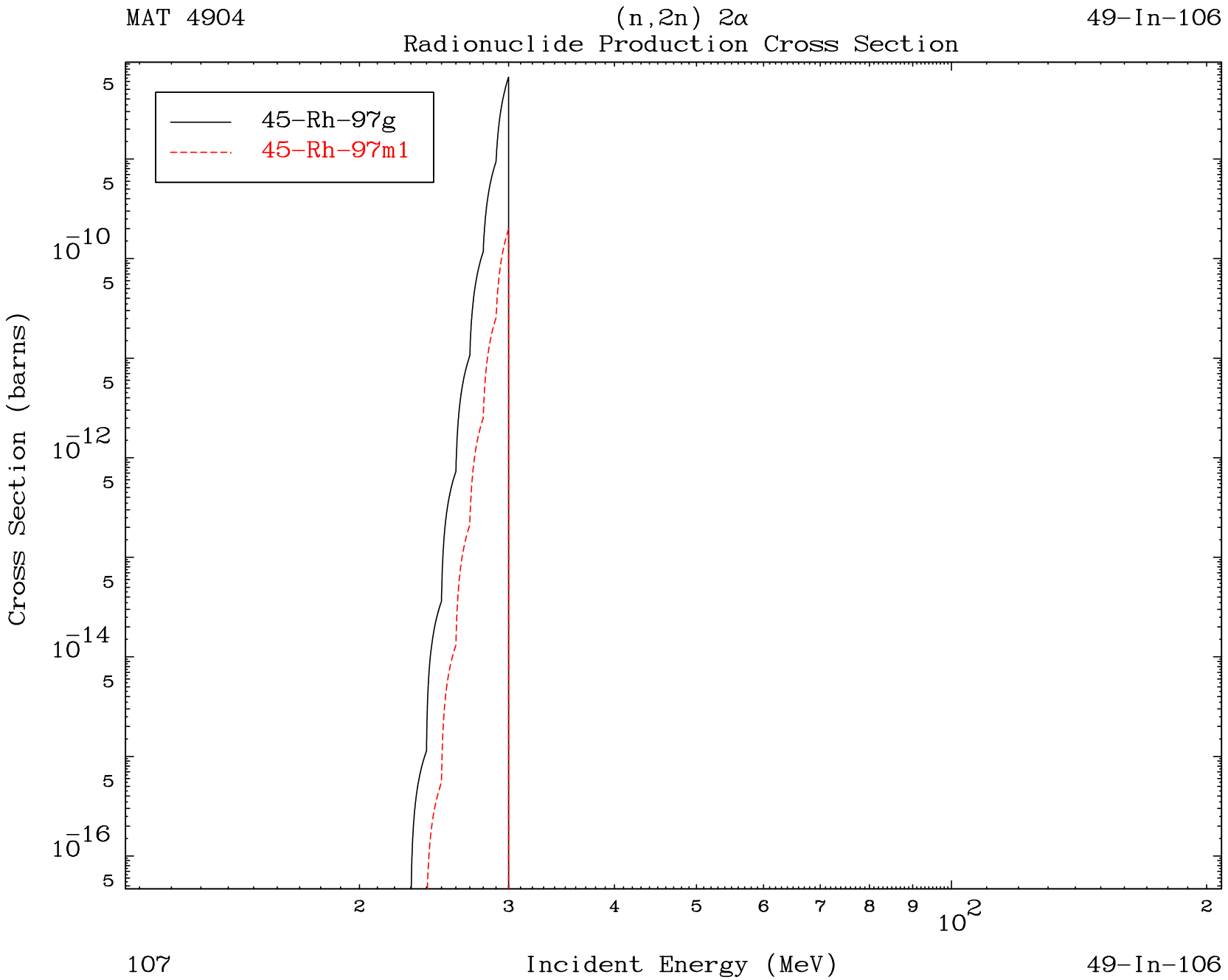

MAT 4904
(n,3n)
49-In-106
Radionuclide Production Cross Section
49-In-104g
49-In-104m3
Cross Section (barns)
Incident Energy (MeV)
102
49-In-106

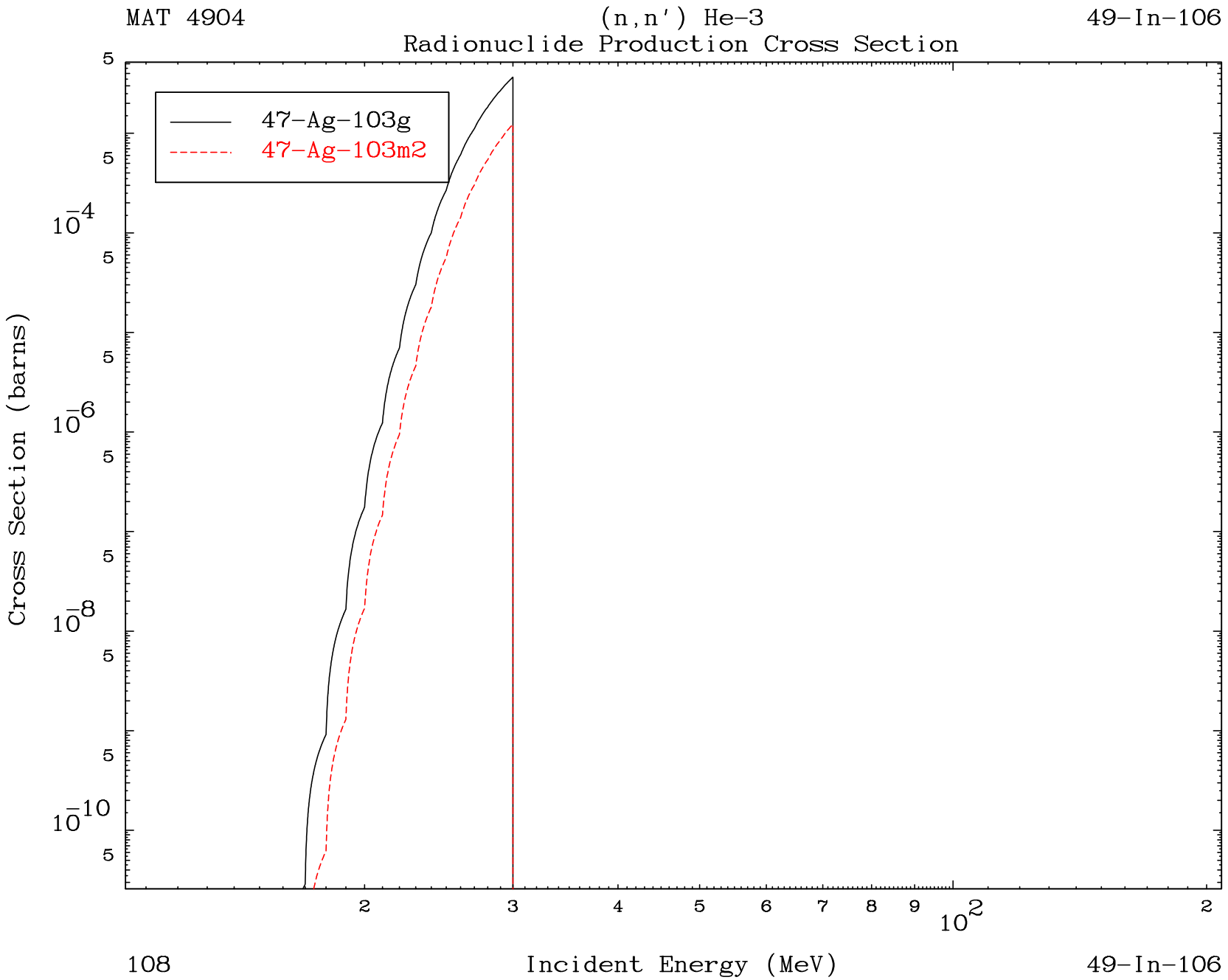

MAT 4904
(n,n') α
49-In-106
Radionuclide Production Cross Section
47-Ag-102g
47-Ag-102m1
Cross Section (barns)
10-2
10-4
10-6
10-8
100
101
102
Incident Energy (MeV)
103
49-In-106

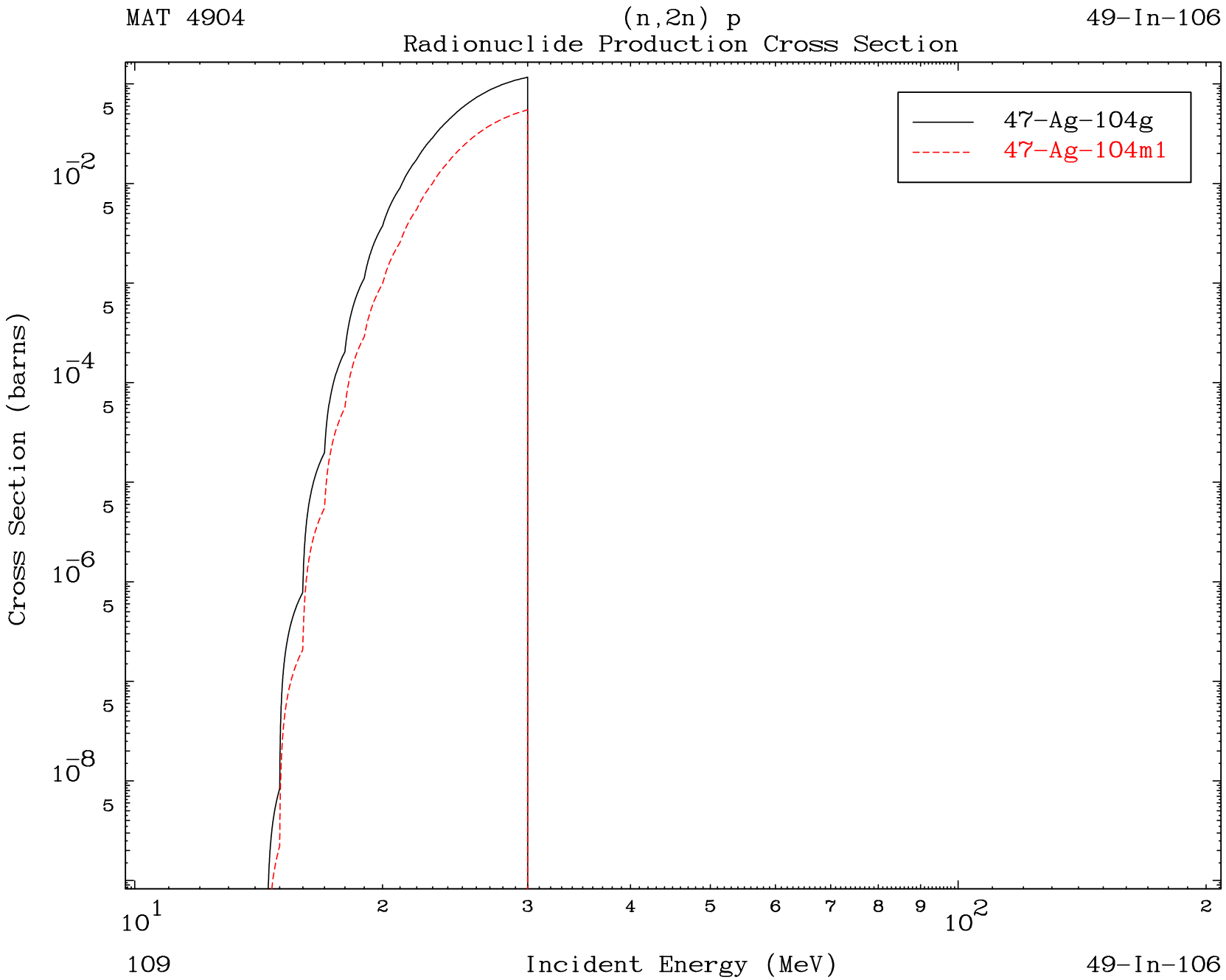

MAT 4904
(n,2n) α
49-In-106
Radionuclide Production Cross Section
47-Ag-101g
47-Ag-101m2
Cross Section (barns)
10-2
10-4
10-6
10-8
5
101
2
3
4
5
6
7
8
9
102
2
104
Incident Energy (MeV)
49-In-106

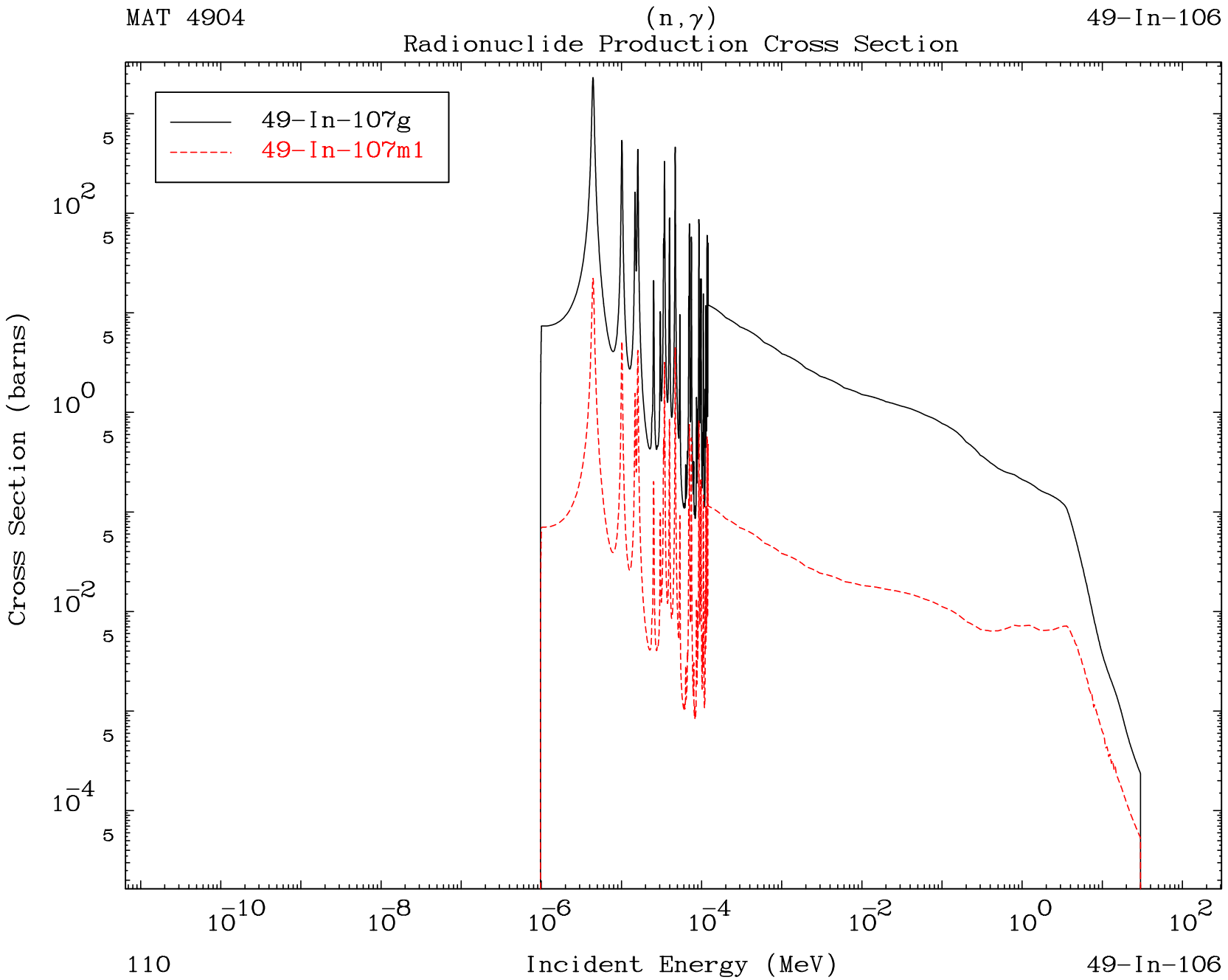

MAT 4904
(n,3n) α
49-In-106
Radionuclide Production Cross Section
47-Ag-100g
47-Ag-100m1
Cross Section (barns)
10-8
10-10
10-12
10-14
5
3
4
5
6
7
8
9
10 2
2
105
Incident Energy (MeV)
49-In-106

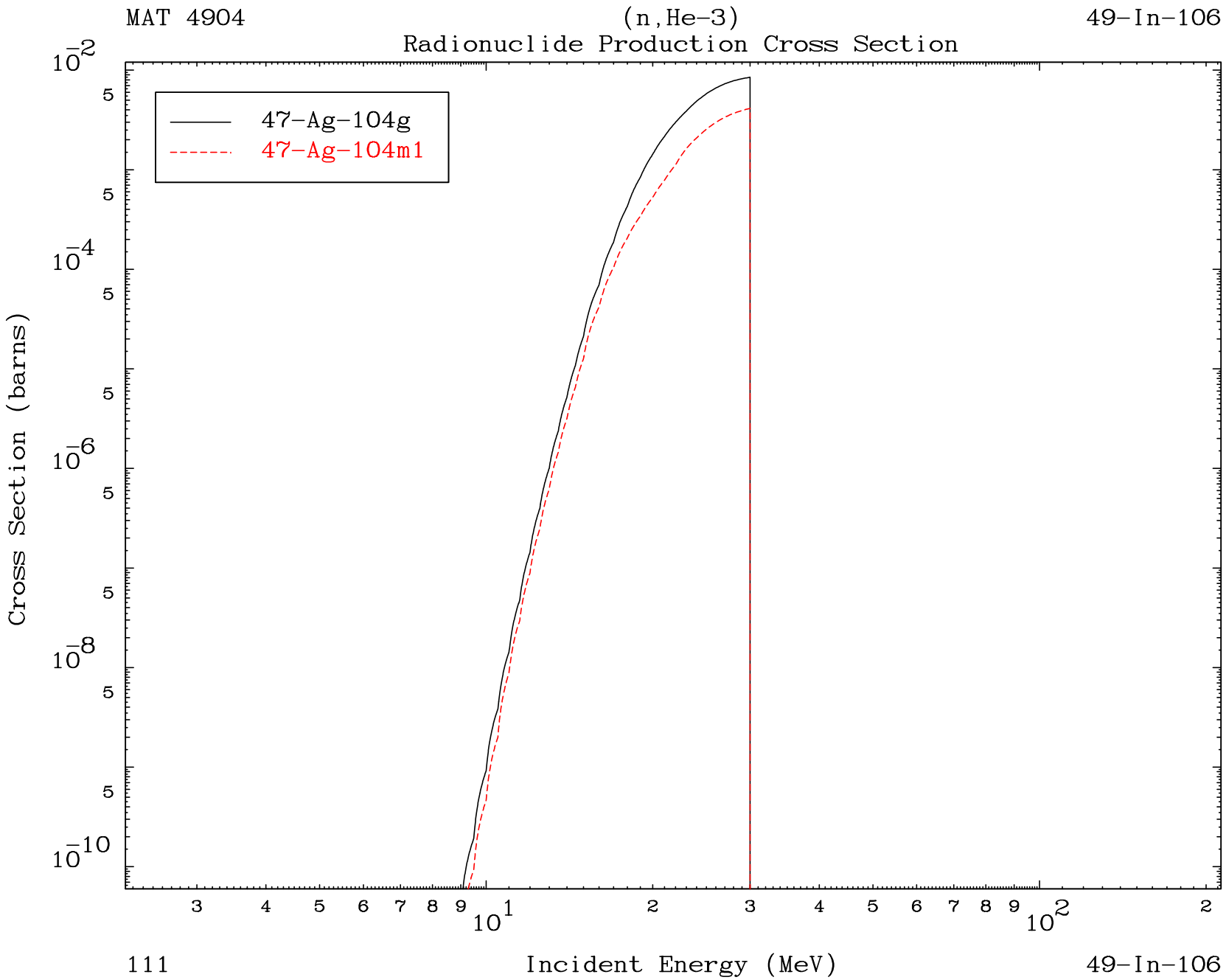

MAT 4904
(n,n') 2α
49-In-106
Radionuclide Production Cross Section
45-Rh-98g
45-Rh-98m2
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
Incident Energy (MeV)
10^1
10^2
106
49-In-106

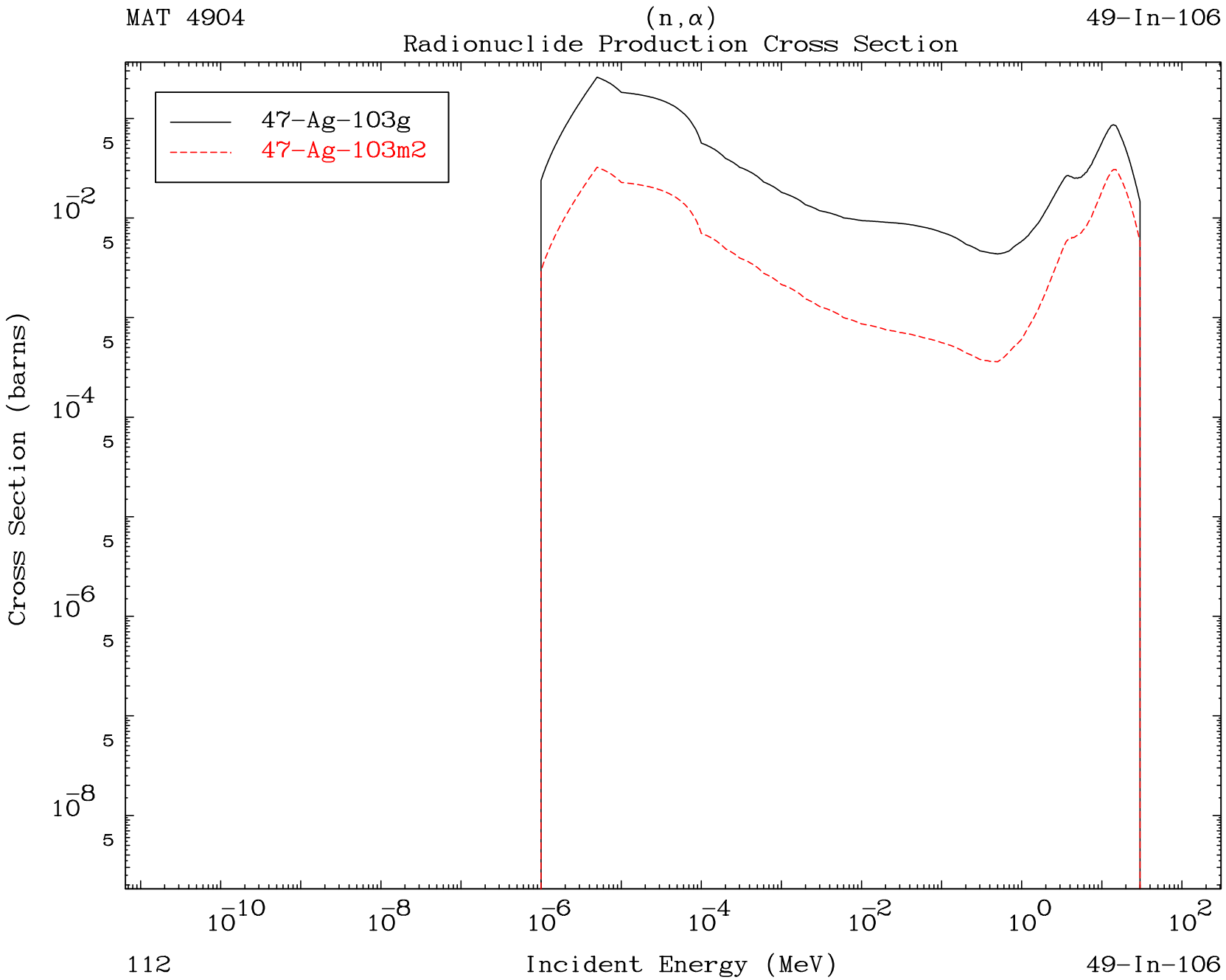

MAT 4904
(n,2n) 2α
49-In-106
Radionuclide Production Cross Section
45-Rh-97g
45-Rh-97m1
Cross Section (barns)
10^-10
10^-12
10^-14
10^-16
5
2
3
4
6
7
8
9
10^2
107
Incident Energy (MeV)
49-In-106

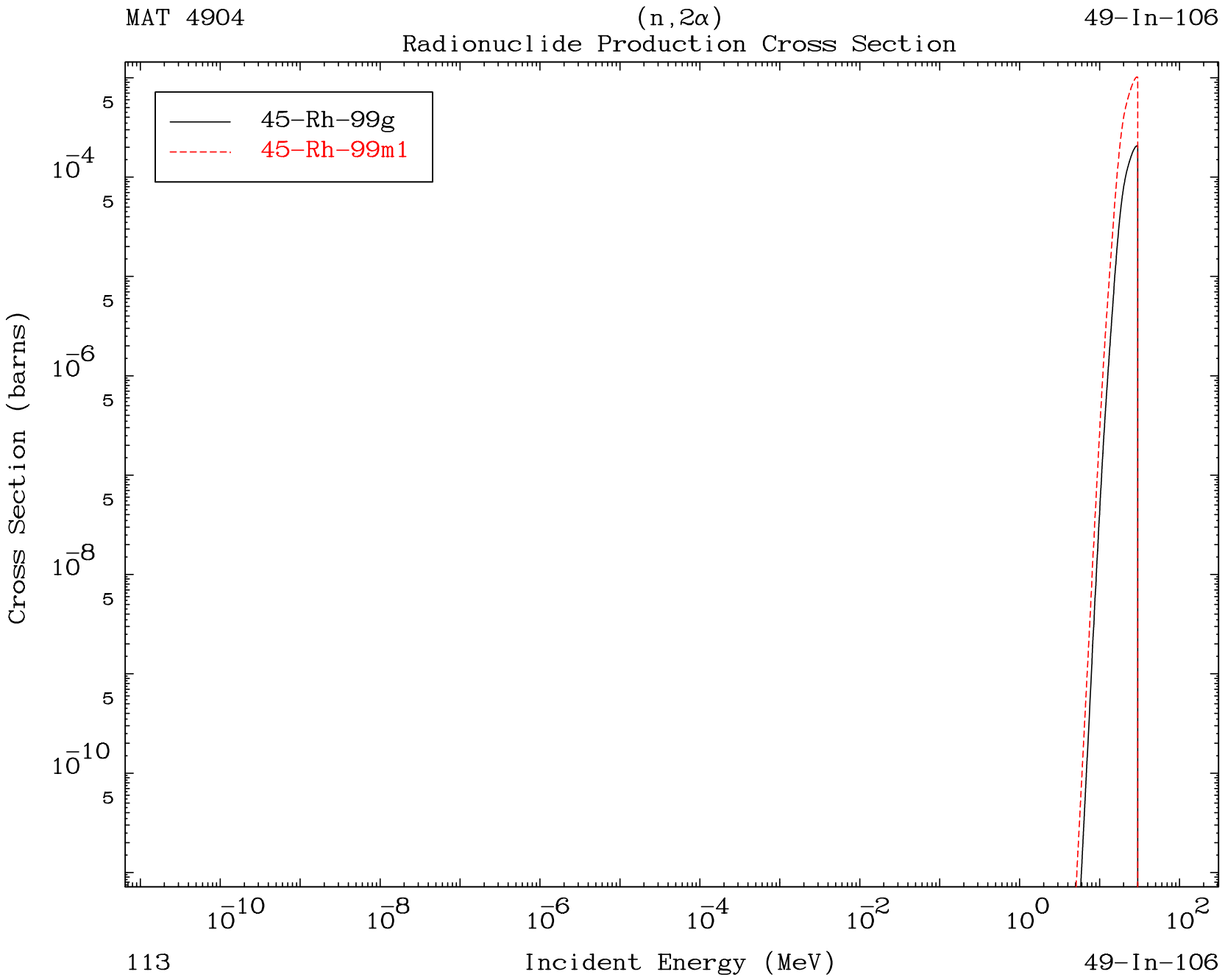

MAT 4904
(n,n') He-3
49-In-106
Radionuclide Production Cross Section
47-Ag-103g
47-Ag-103m2
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
2
3
4
5
6
7
8
9
10^2
2
108
Incident Energy (MeV)
49-In-106

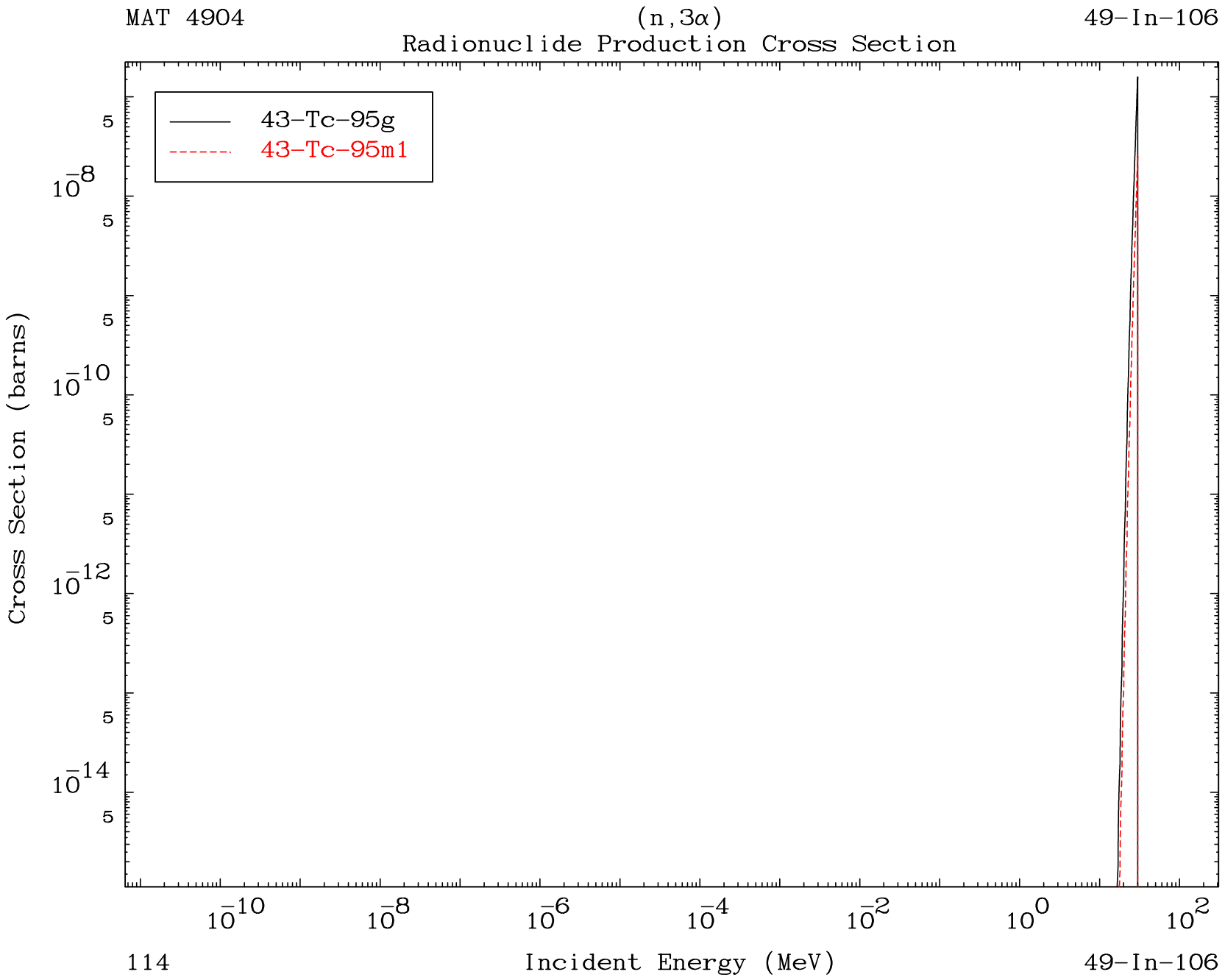

MAT 4904
(n,2n) p
49-In-106
Radionuclide Production Cross Section
47-Ag-104g
47-Ag-104m1
Cross Section (barns)
Incident Energy (MeV)
109
49-In-106

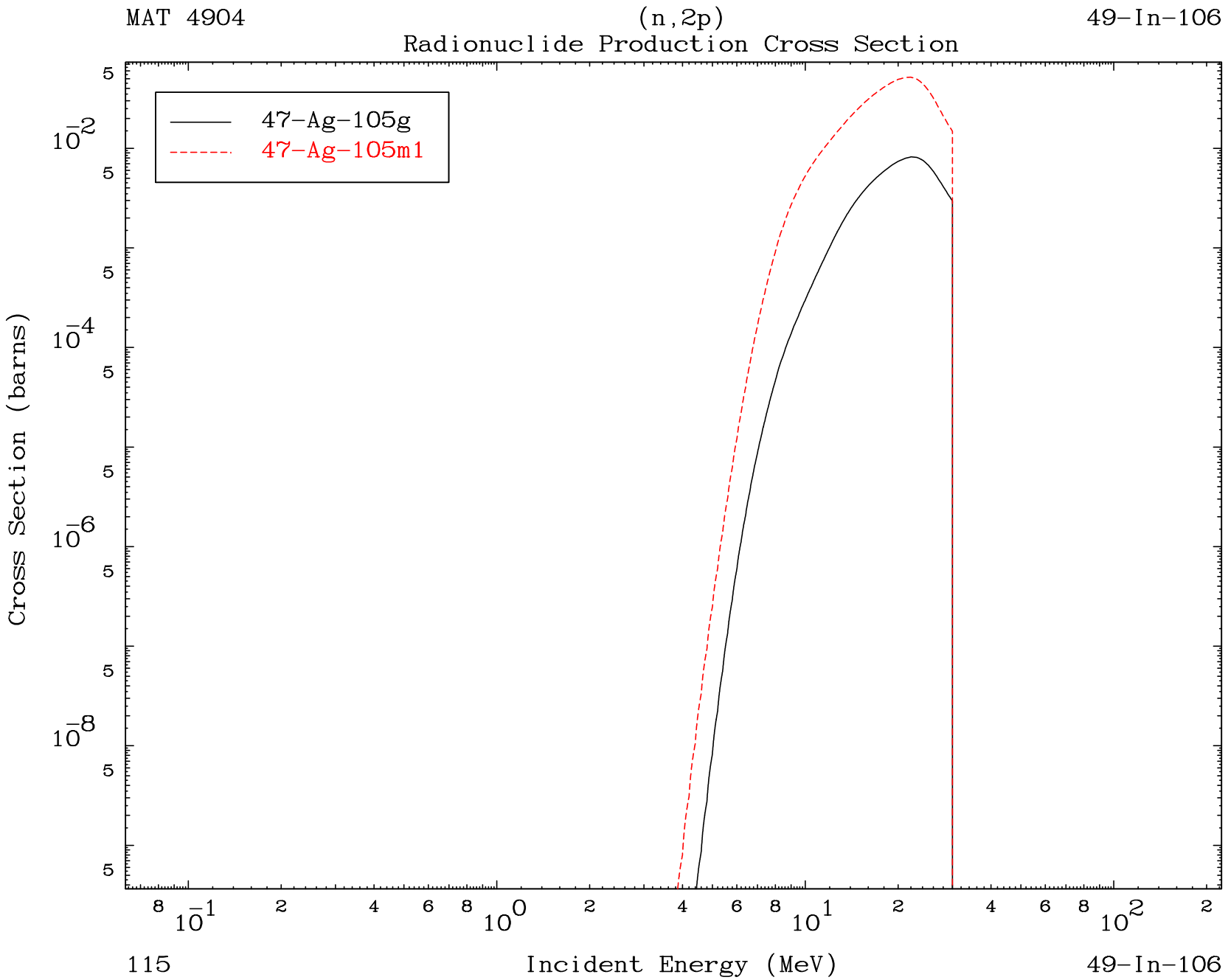

MAT 4904
(n,γ)
49-In-106
Radionuclide Production Cross Section
49-In-107g
49-In-107m1
Cross Section (barns)
Incident Energy (MeV)
110
49-In-106

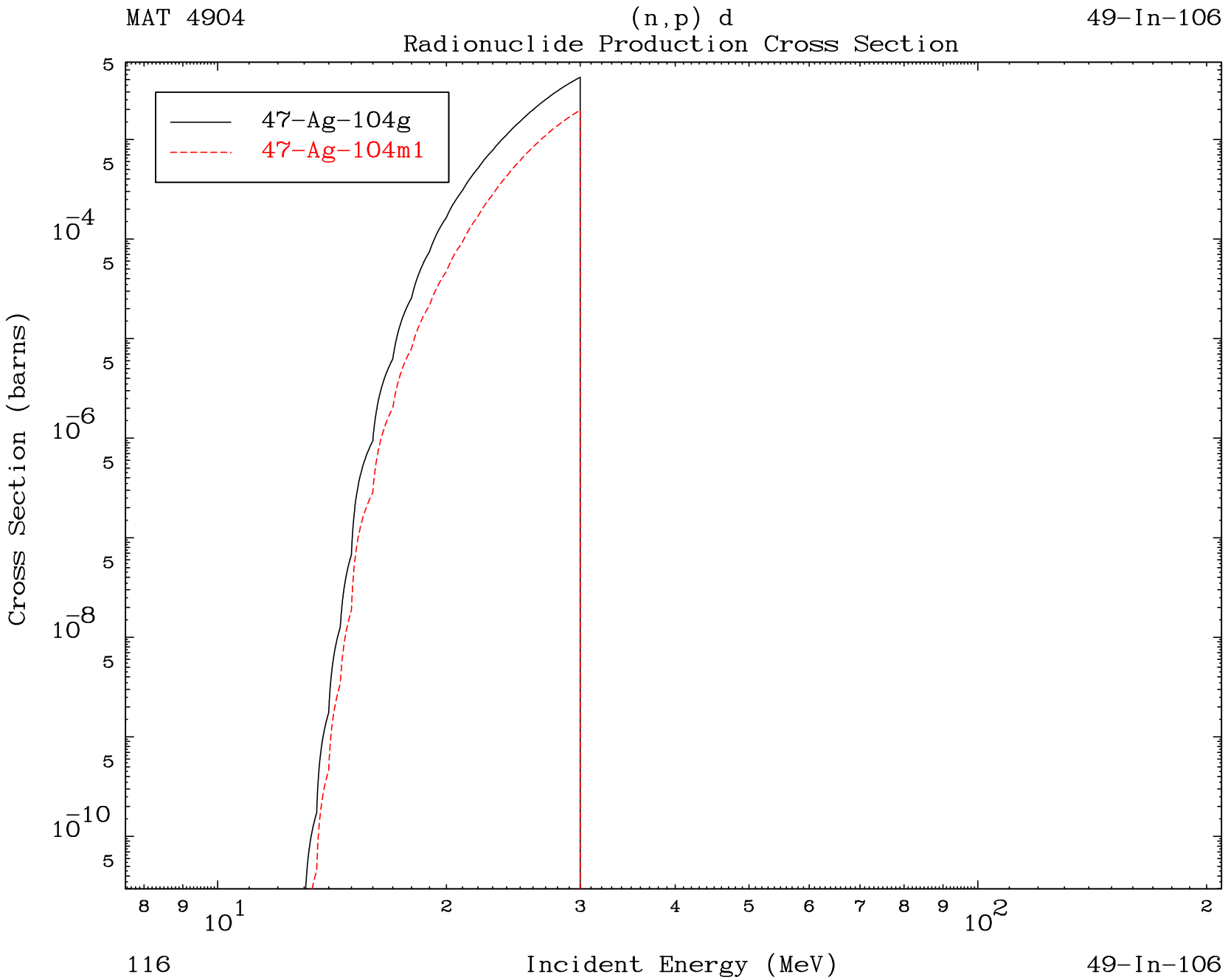

MAT 4904
(n,He-3)
49-In-106
Radionuclide Production Cross Section
47-Ag-104g
47-Ag-104m1
Cross Section (barns)
Incident Energy (MeV)
111
49-In-106

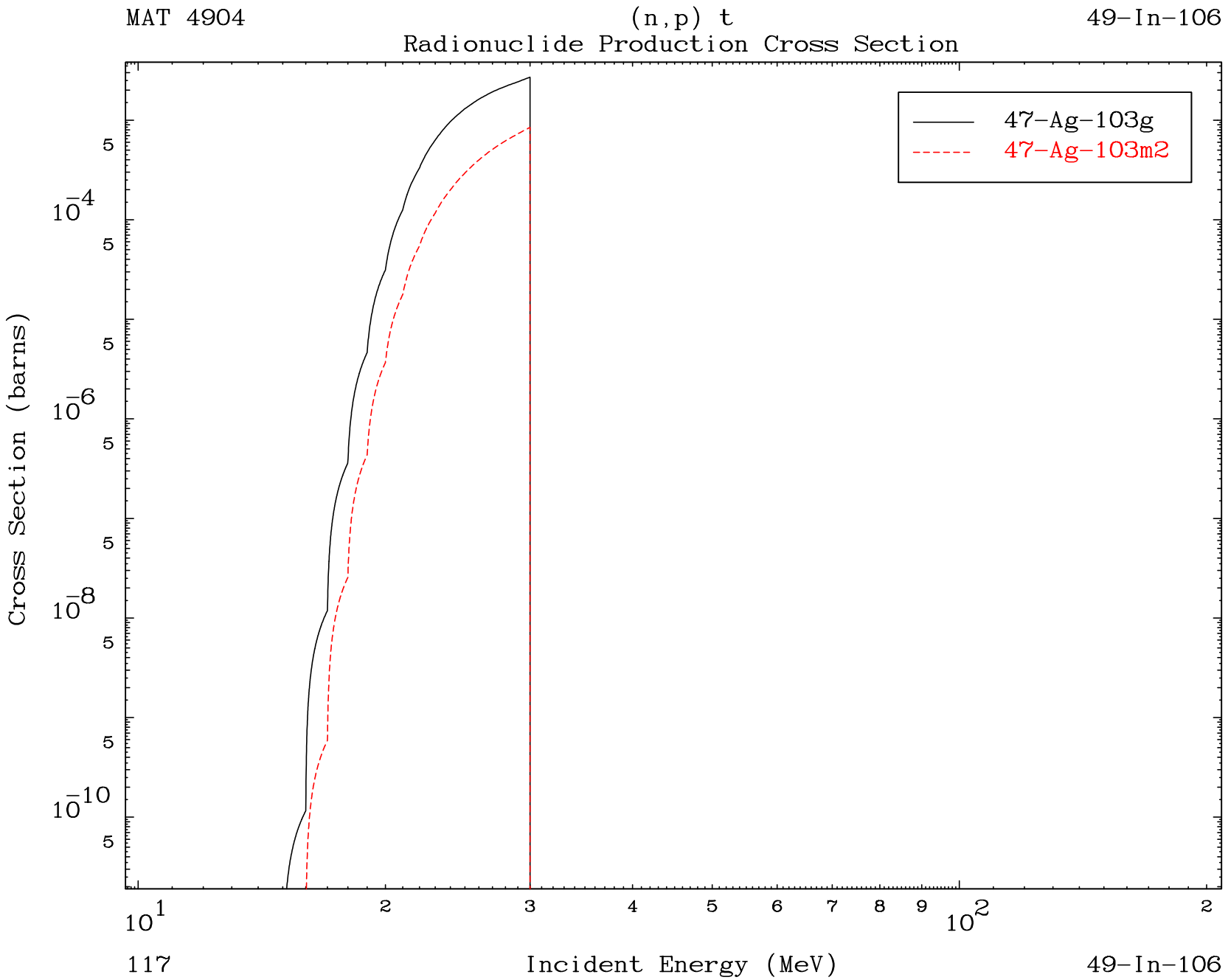

MAT 4904
(n,α)
49-In-106
Radionuclide Production Cross Section
47-Ag-103g
47-Ag-103m2
Cross Section (barns)
10^-2
10^-4
10^-6
10^-8
10^-10
10^0
10^2
112
Incident Energy (MeV)
49-In-106


MAT 4904
(n,2α)
49-In-106
Radionuclide Production Cross Section
45-Rh-99g
45-Rh-99m1
Cross Section (barns)
Incident Energy (MeV)
113
49-In-106


MAT 4904
(n,3α)
49-In-106
Radionuclide Production Cross Section
43-Tc-95g
43-Tc-95m1
Cross Section (barns)
Incident Energy (MeV)
114
49-In-106


MAT 4904
(n,2p)
49-In-106
Radionuclide Production Cross Section
47-Ag-105g
47-Ag-105m1
Cross Section (barns)
Incident Energy (MeV)
115
49-In-106


MAT 4904
(n,p) d
49-In-106
Radionuclide Production Cross Section
47-Ag-104g
47-Ag-104m1
Cross Section (barns)
Incident Energy (MeV)
116
49-In-106


MAT 4904
(n,p) t
49-In-106
Radionuclide Production Cross Section
47-Ag-103g
47-Ag-103m2
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^1
10^2
Incident Energy (MeV)
117
49-In-106