Program EVALPLOT
(Version 2015-2)
by
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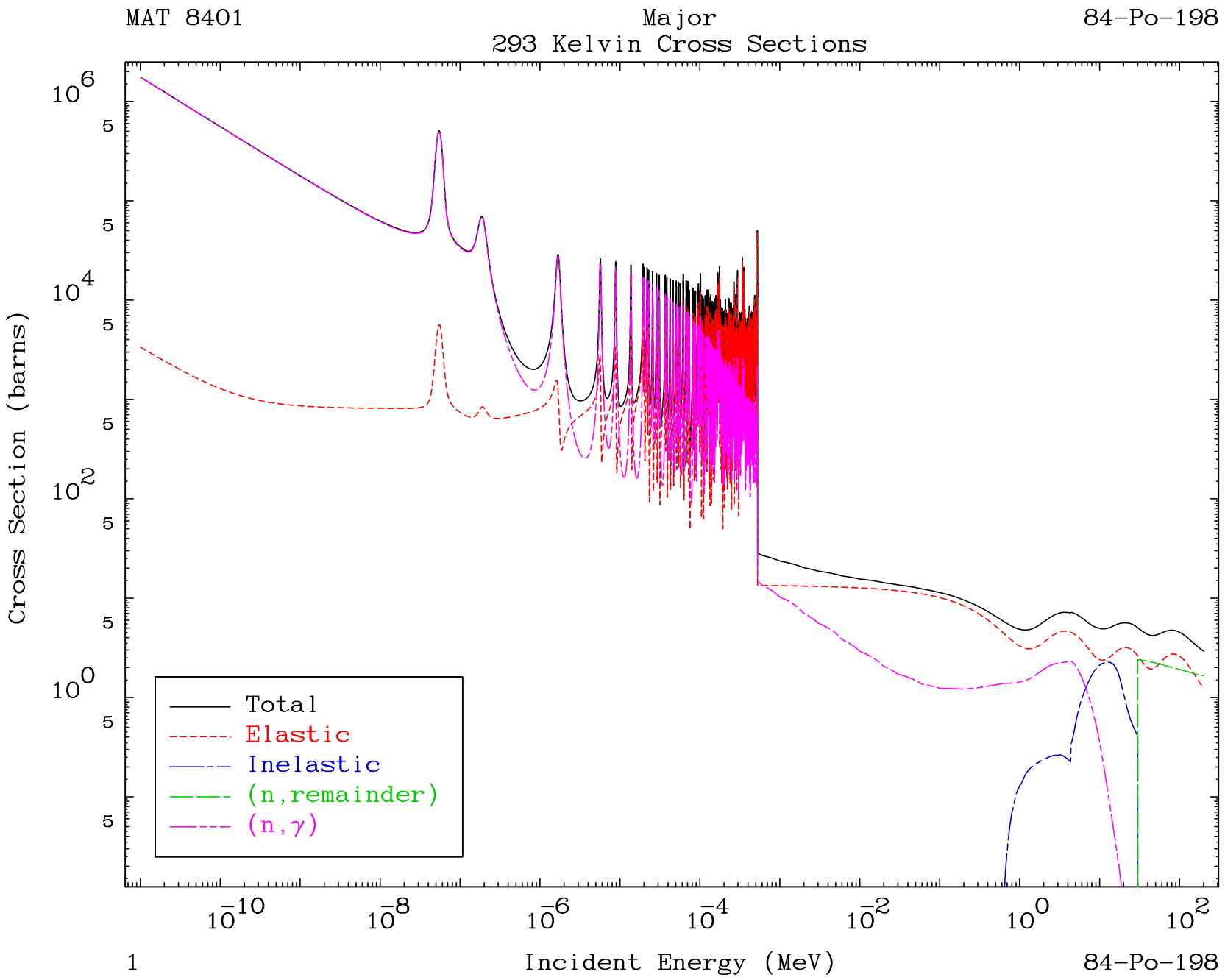
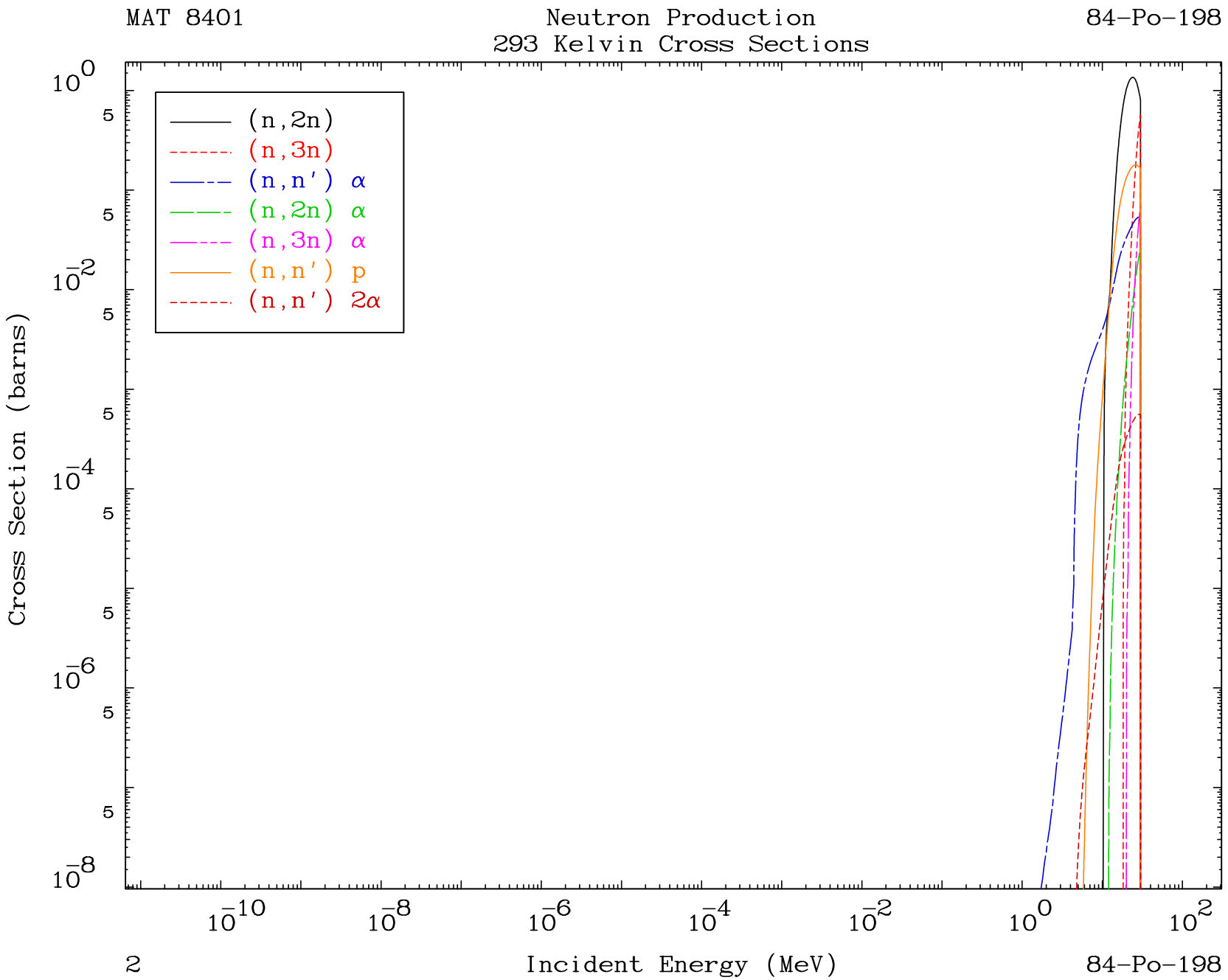
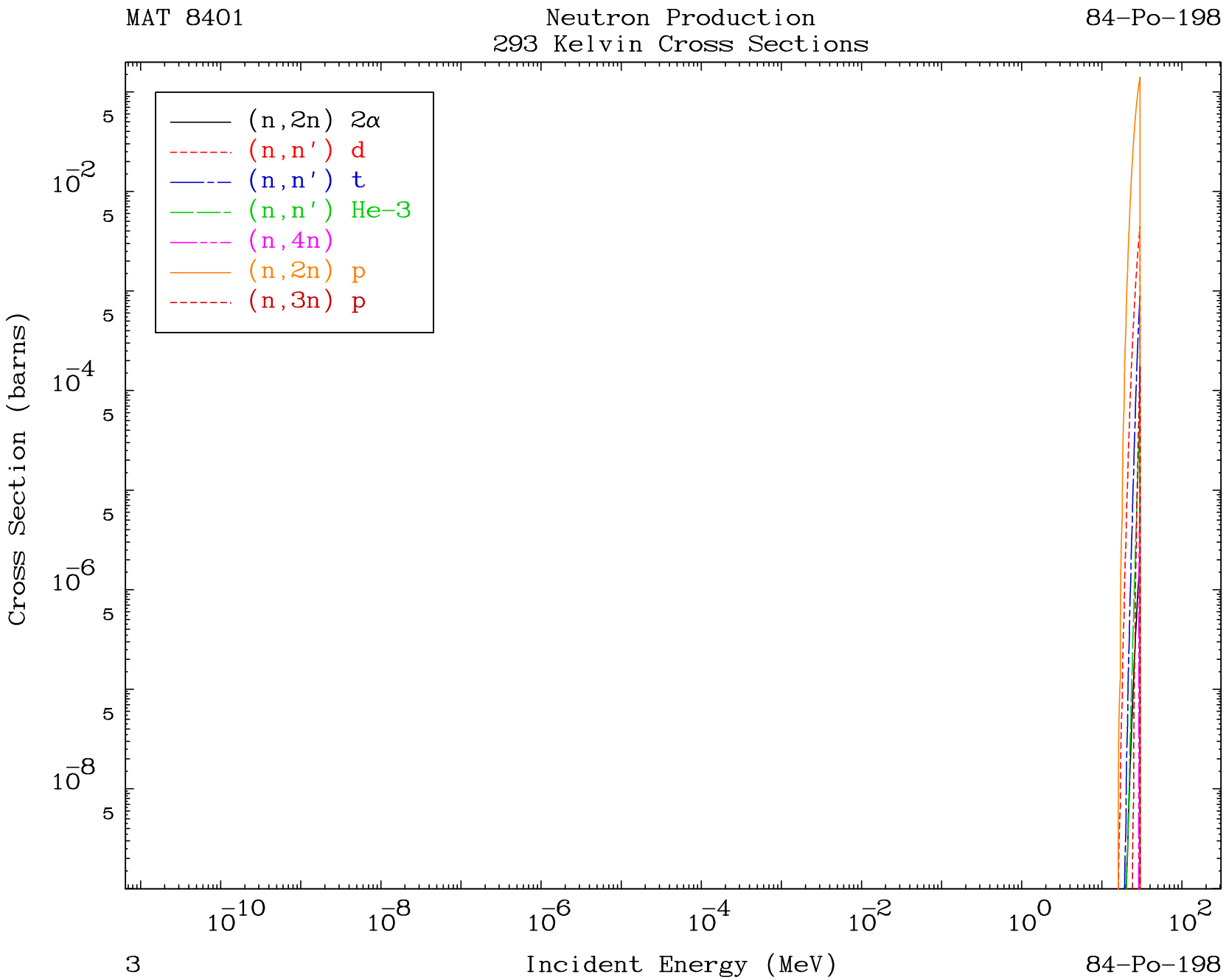
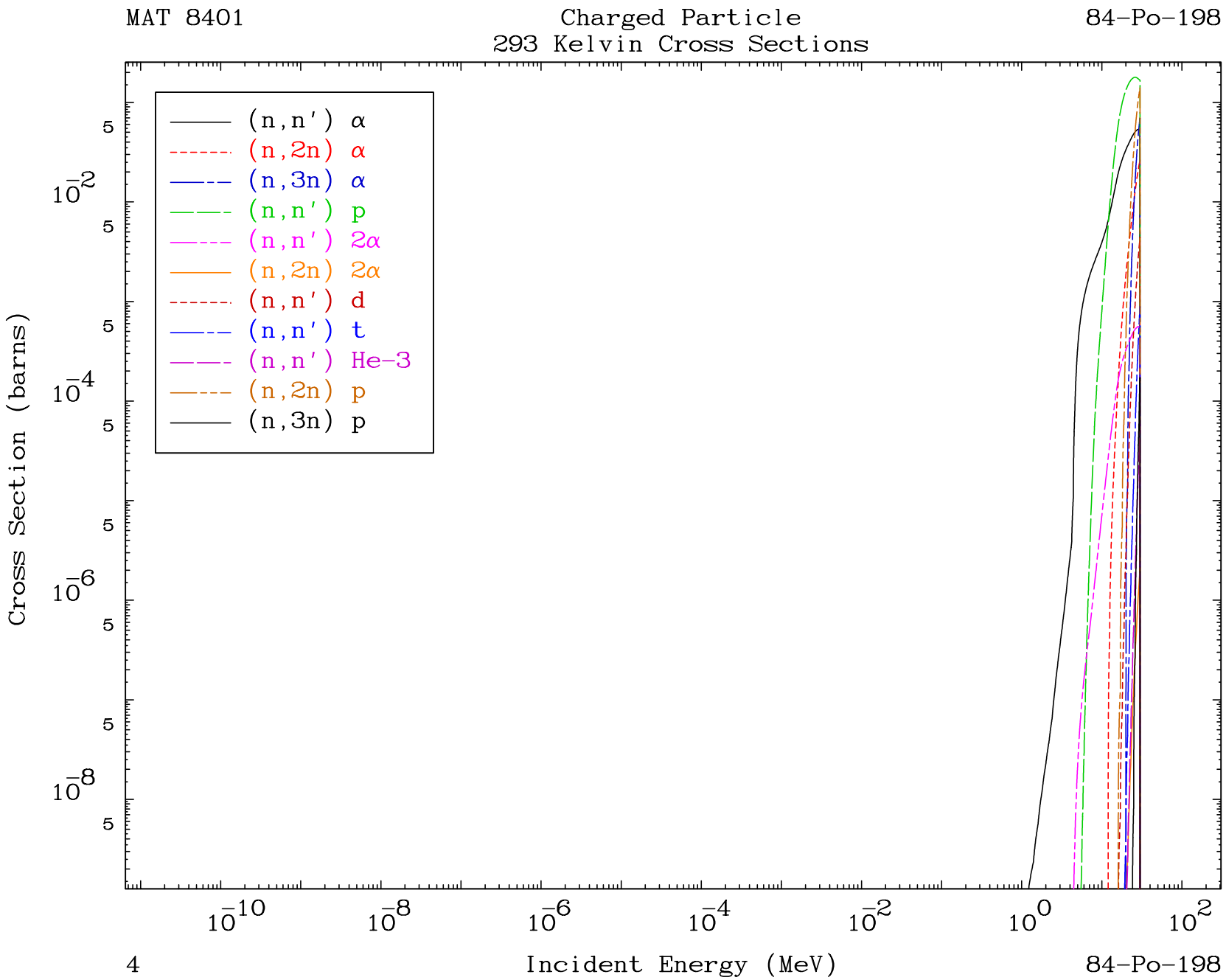
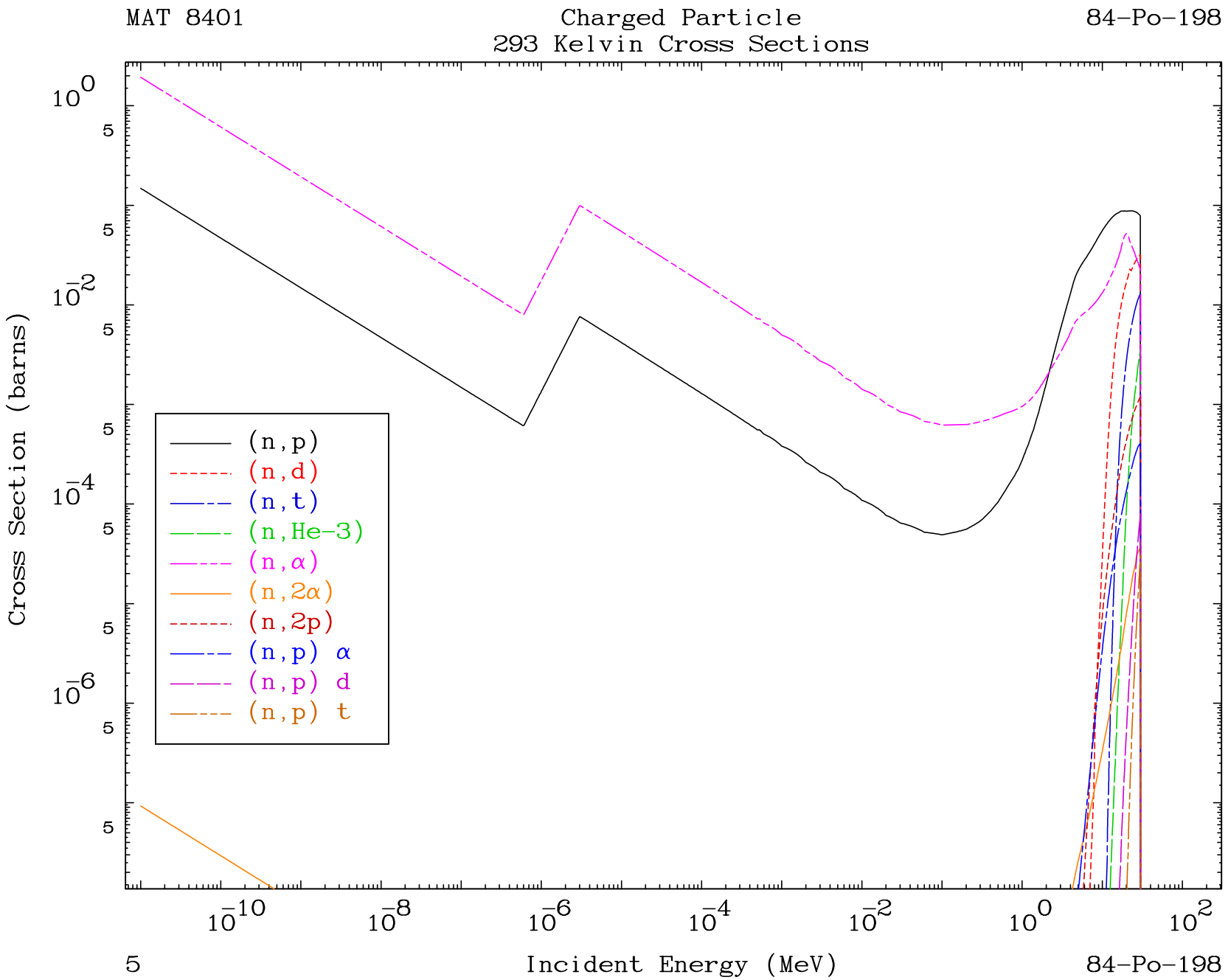
Press Mouse Button to Start

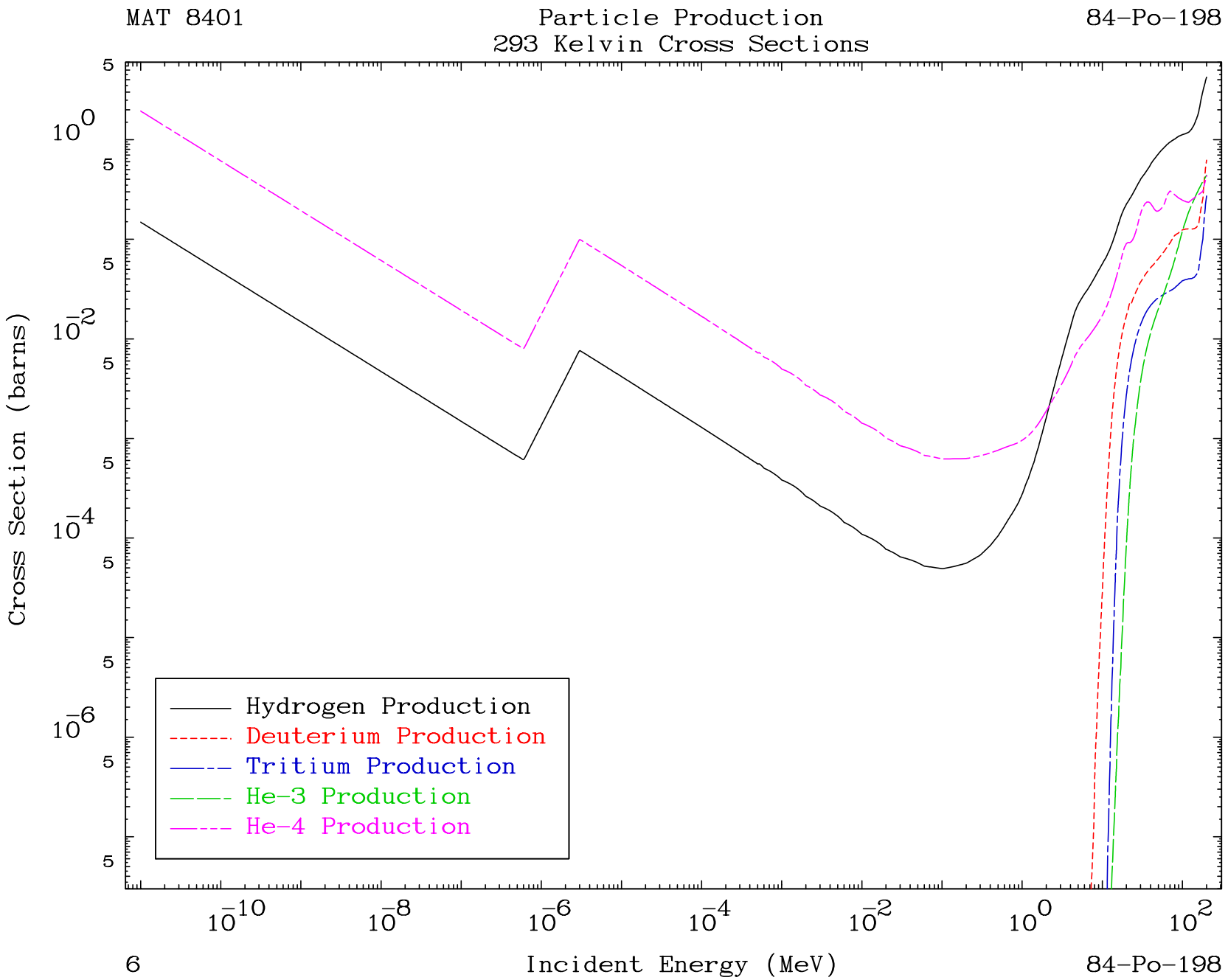

MAT 8401
Major
84-Po-198
293 Kelvin Cross Sections
Cross Section (barns)
Incident Energy (MeV)
Total
Elastic
Inelastic
(n,remainder)
(n,γ)
84-Po-198
1

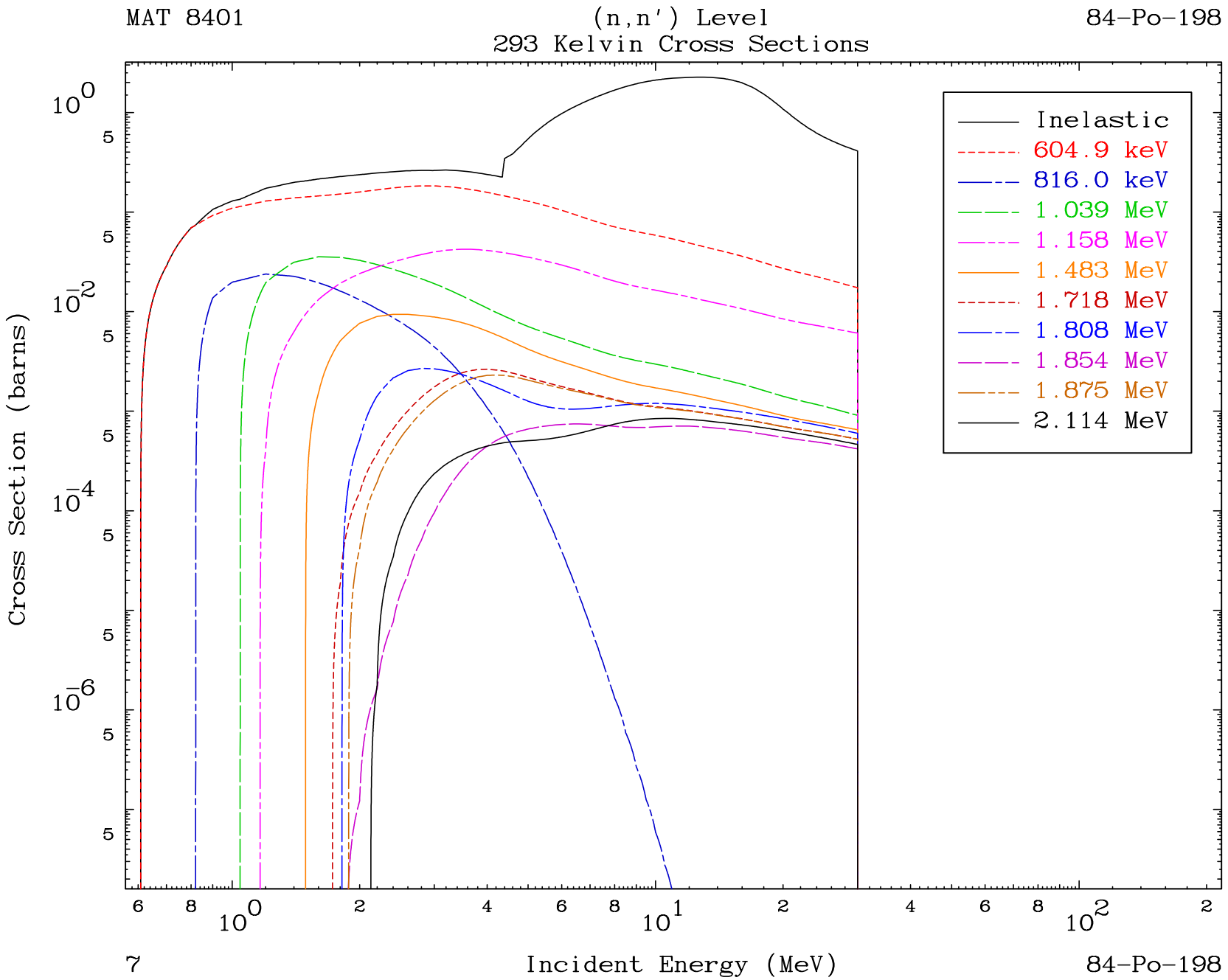

MAT 8401
Neutron Production
293 Kelvin Cross Sections
84-Po-198
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
Cross Section (barns)
Incident Energy (MeV)
84-Po-198
2

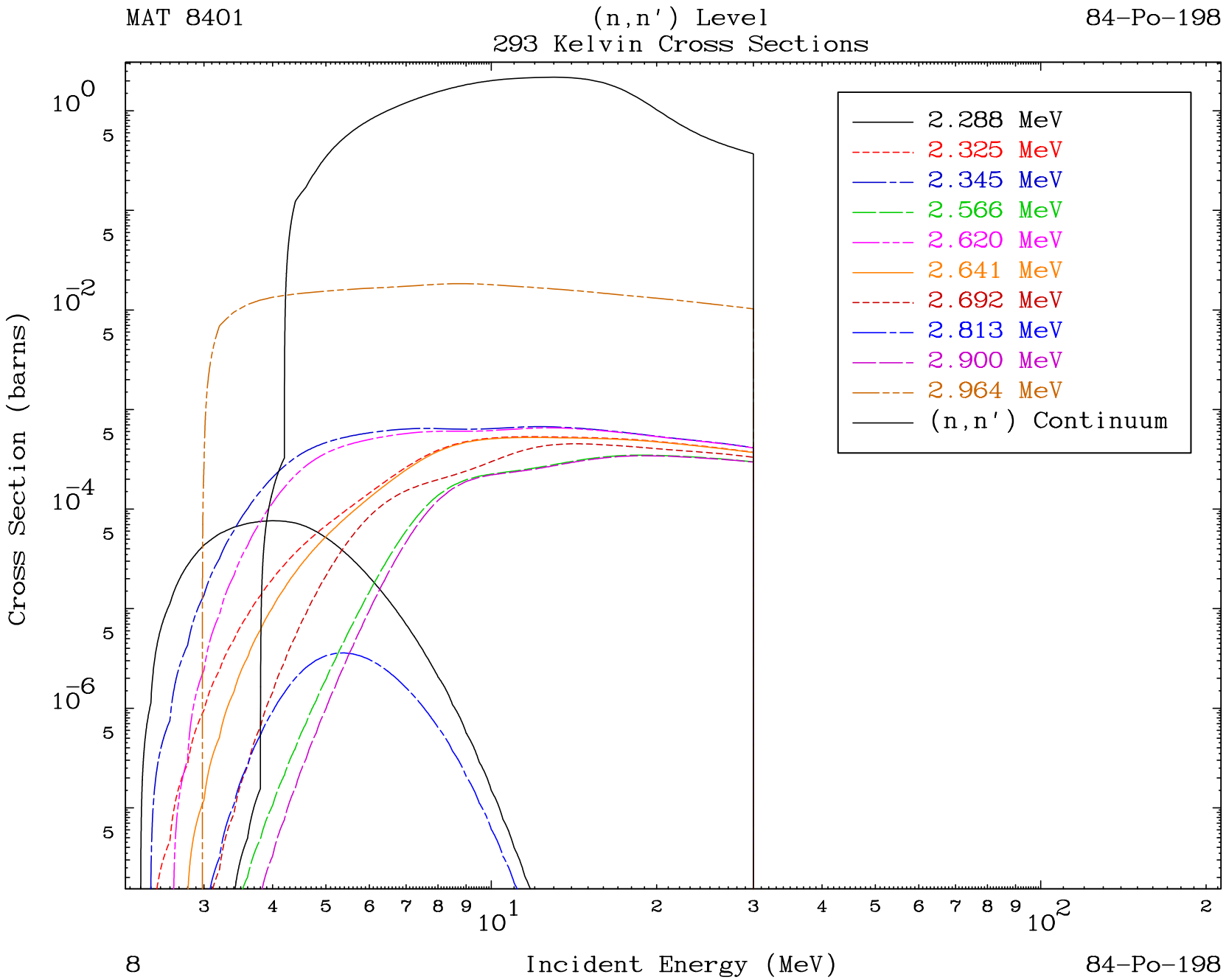

MAT 8401
Neutron Production
293 Kelvin Cross Sections
84-Po-198
(n,2n) 2α
(n,n') d
(n,n') t
(n,n') He-3
(n,4n)
(n,2n) p
(n,3n) p
Cross Section (barns)
10^-2
10^-4
10^-6
10^-8
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
Incident Energy (MeV)
3
84-Po-198

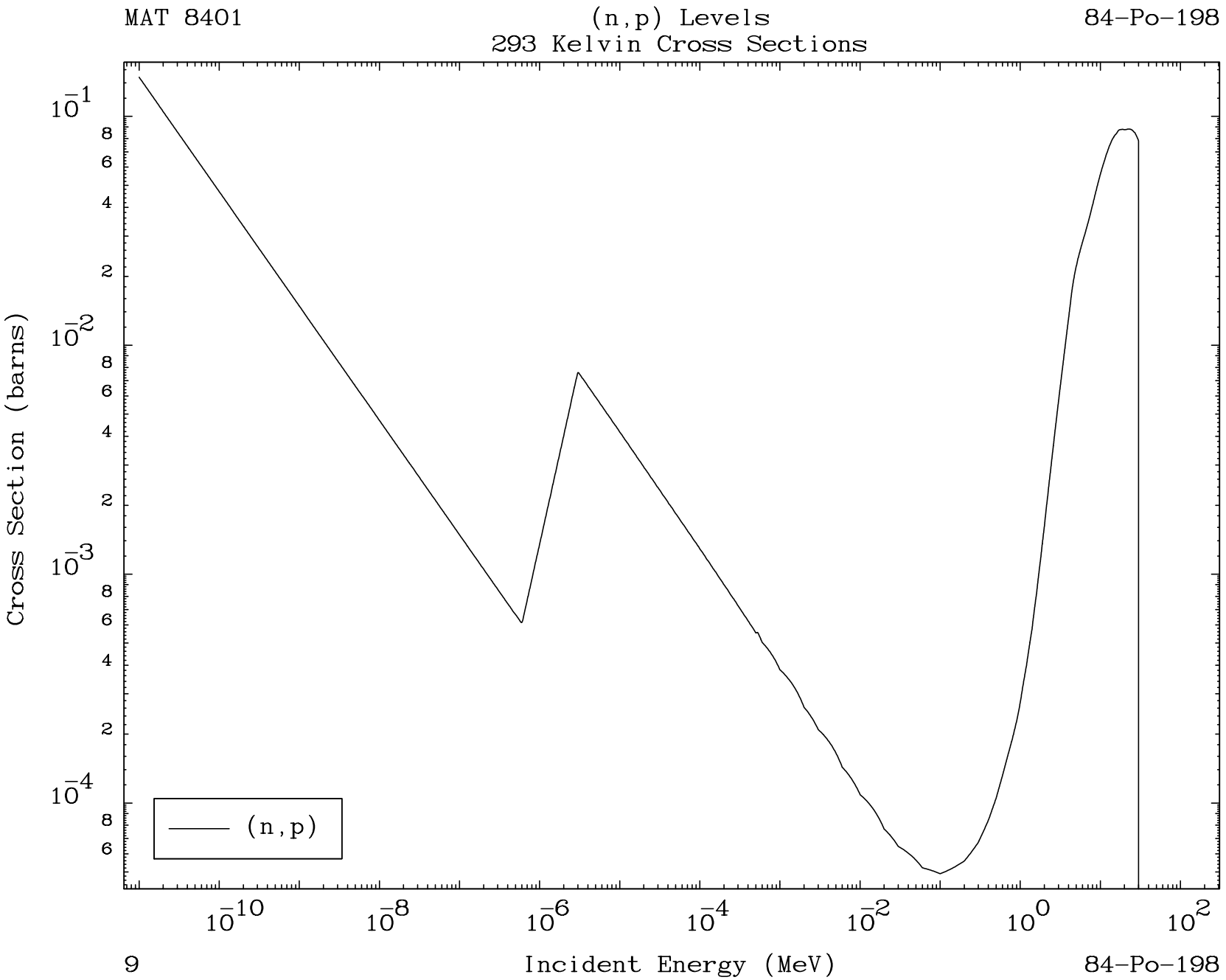

MAT 8401
Charged Particle
293 Kelvin Cross Sections
84-Po-198
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,2n) 2α
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
(n,3n) p
Cross Section (barns)
Incident Energy (MeV)
4
84-Po-198

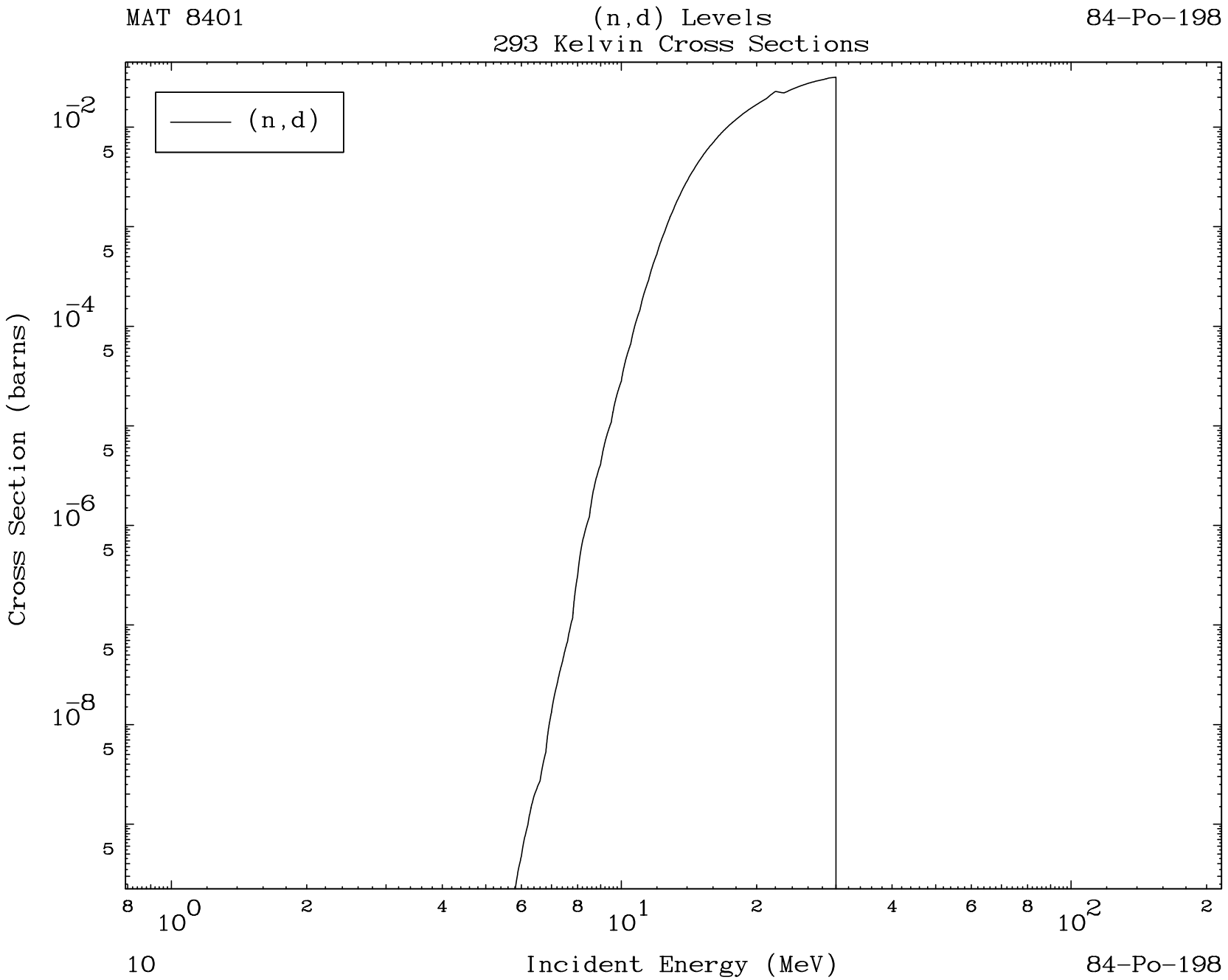

MAT 8401
Charged Particle
293 Kelvin Cross Sections
84-Po-198
Cross Section (barns)
Incident Energy (MeV)
84-Po-198
5
(n,p)
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t

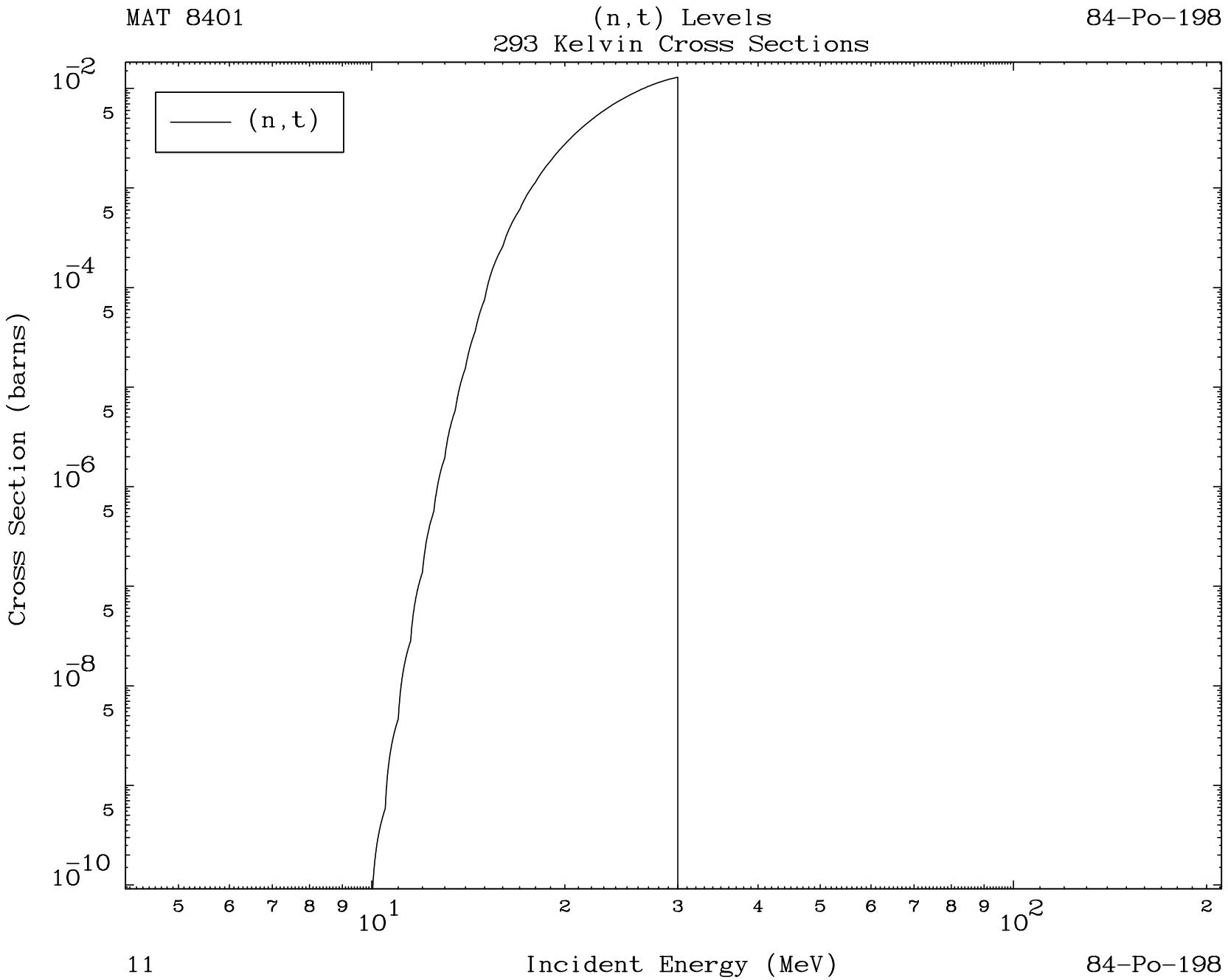

MAT 8401
Particle Production
293 Kelvin Cross Sections
84-Po-198
Cross Section (barns)
Incident Energy (MeV)
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production
6
84-Po-198

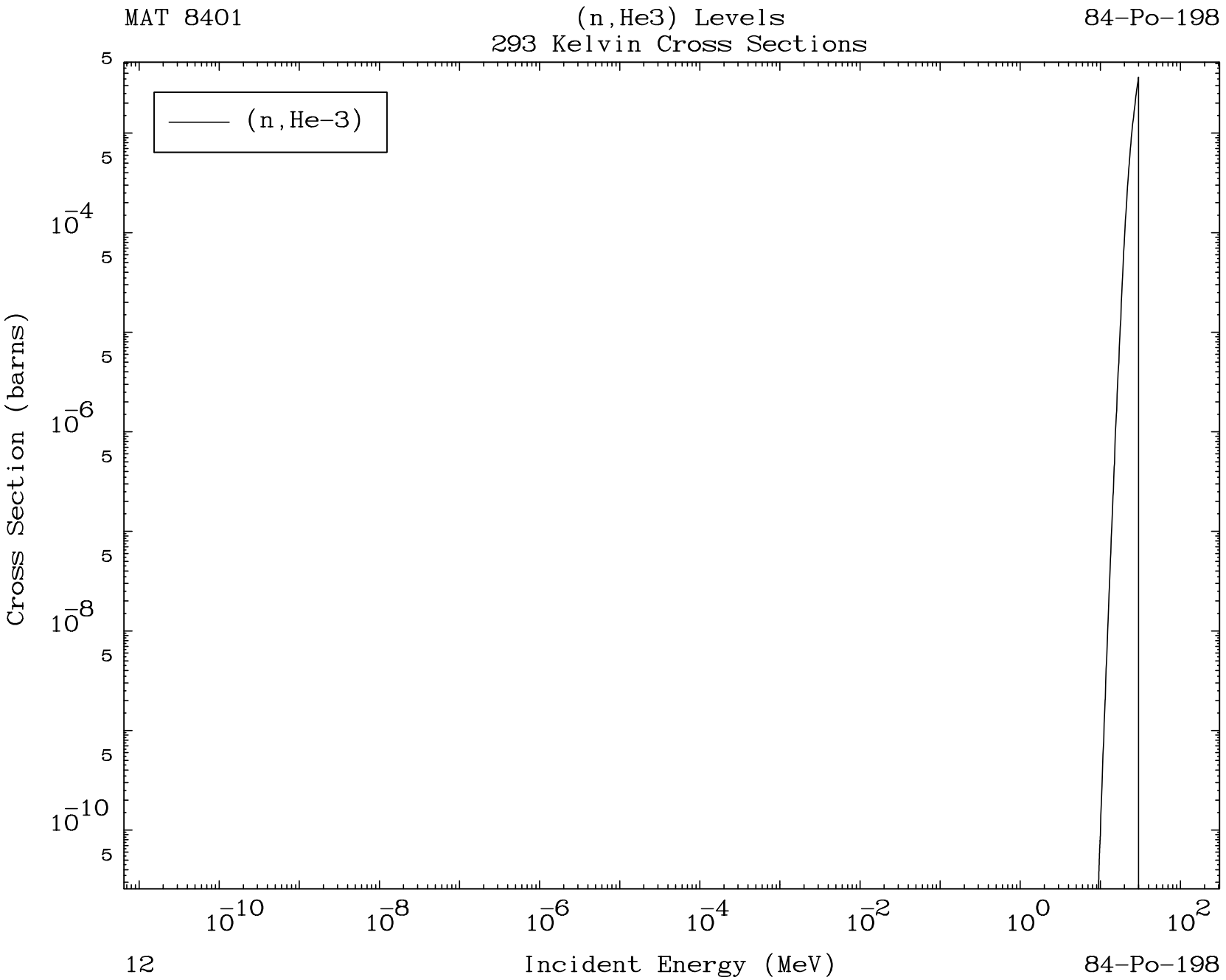

MAT 8401
(n,n') Level
293 Kelvin Cross Sections
84-Po-198
Cross Section (barns)
Incident Energy (MeV)
Inelastic
604.9 keV
816.0 keV
1.039 MeV
1.158 MeV
1.483 MeV
1.718 MeV
1.808 MeV
1.854 MeV
1.875 MeV
2.114 MeV
7
84-Po-198

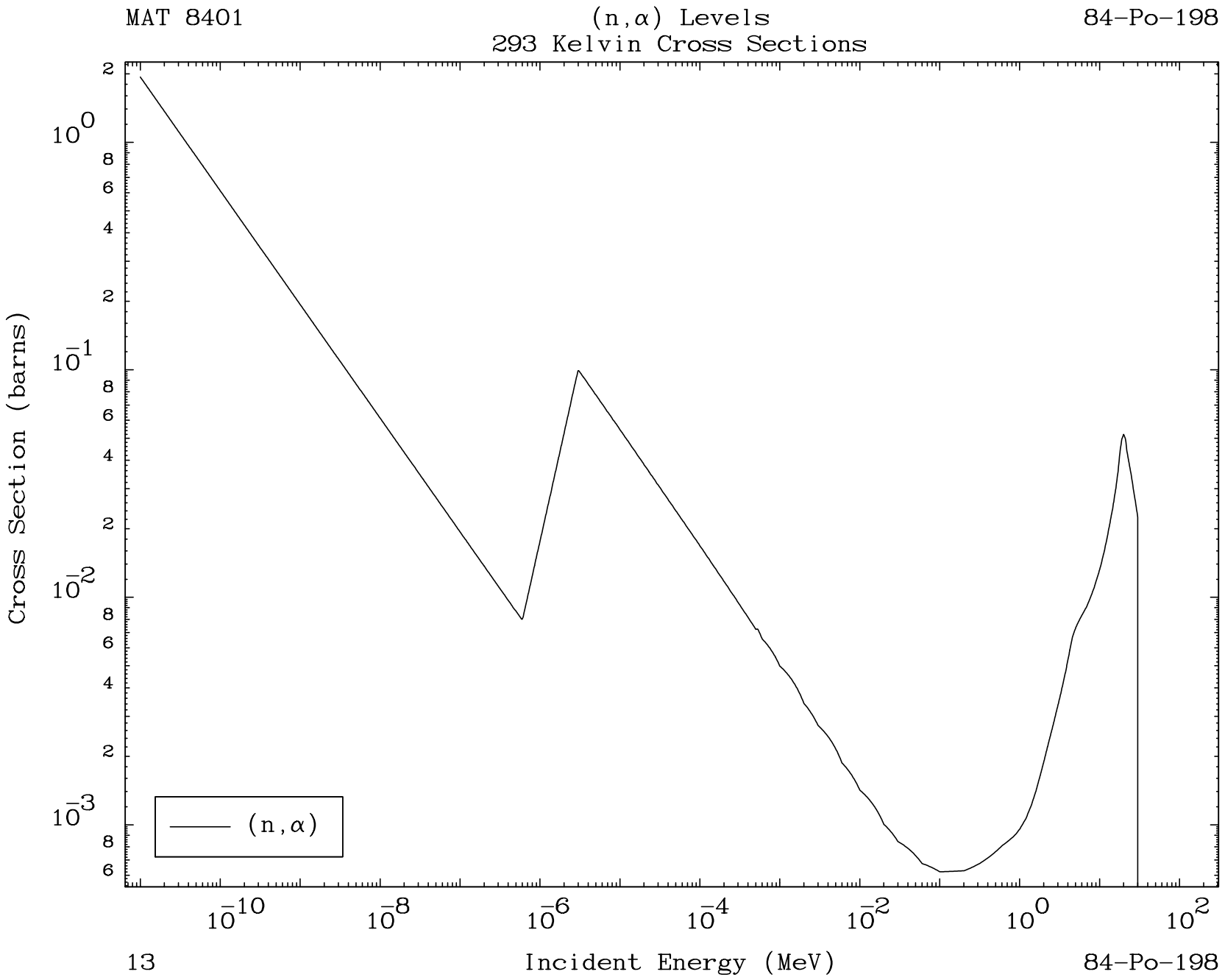

MAT 8401
(n,n') Level
84-Po-198
293 Kelvin Cross Sections
Cross Section (barns)
Incident Energy (MeV)
2.288 MeV
2.325 MeV
2.345 MeV
2.566 MeV
2.620 MeV
2.641 MeV
2.692 MeV
2.813 MeV
2.900 MeV
2.964 MeV
(n,n') Continuum
8
84-Po-198

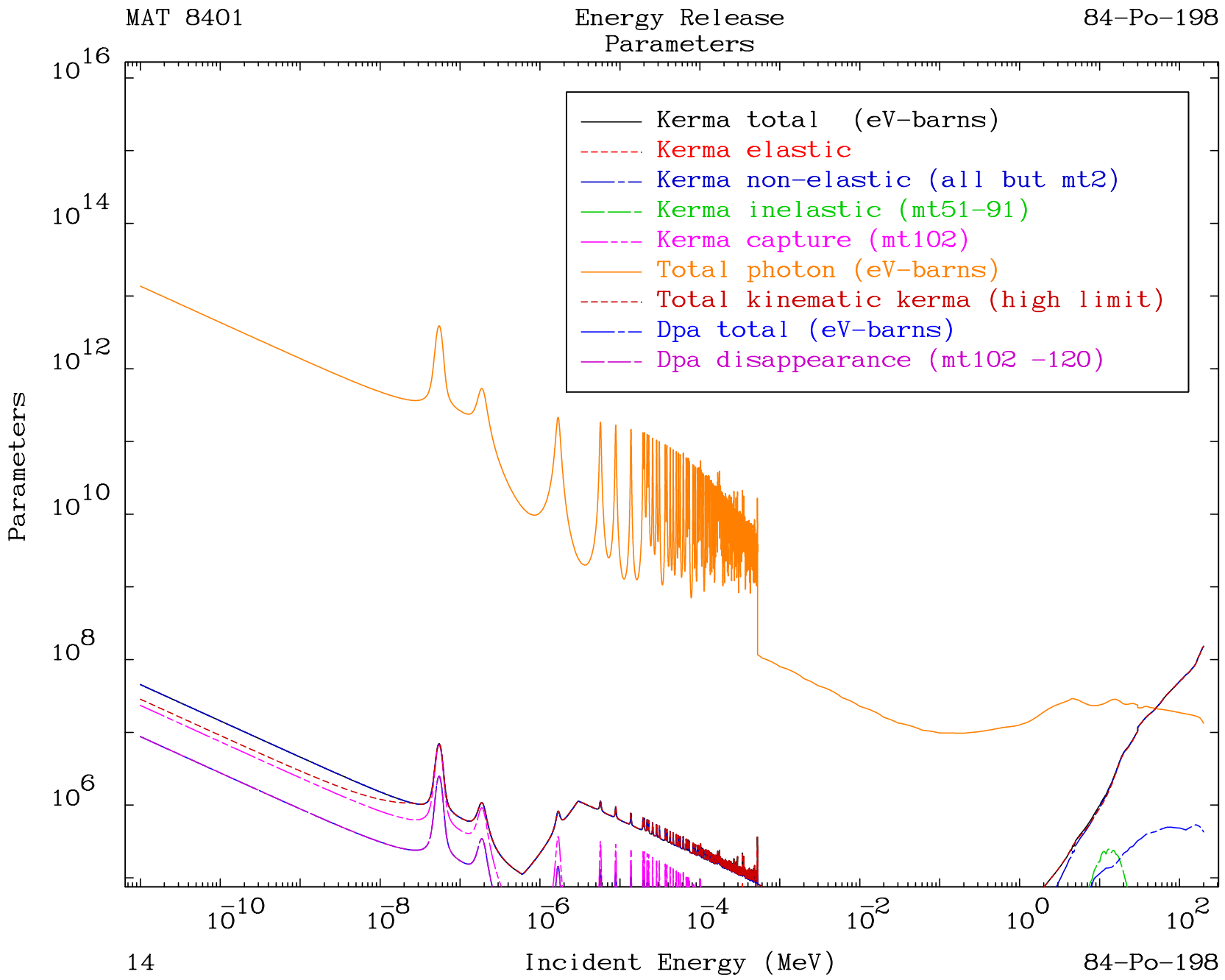

MAT 8401
(n,p) Levels
84-Po-198
293 Kelvin Cross Sections
Cross Section (barns)
(n,p)
Incident Energy (MeV)
9
84-Po-198

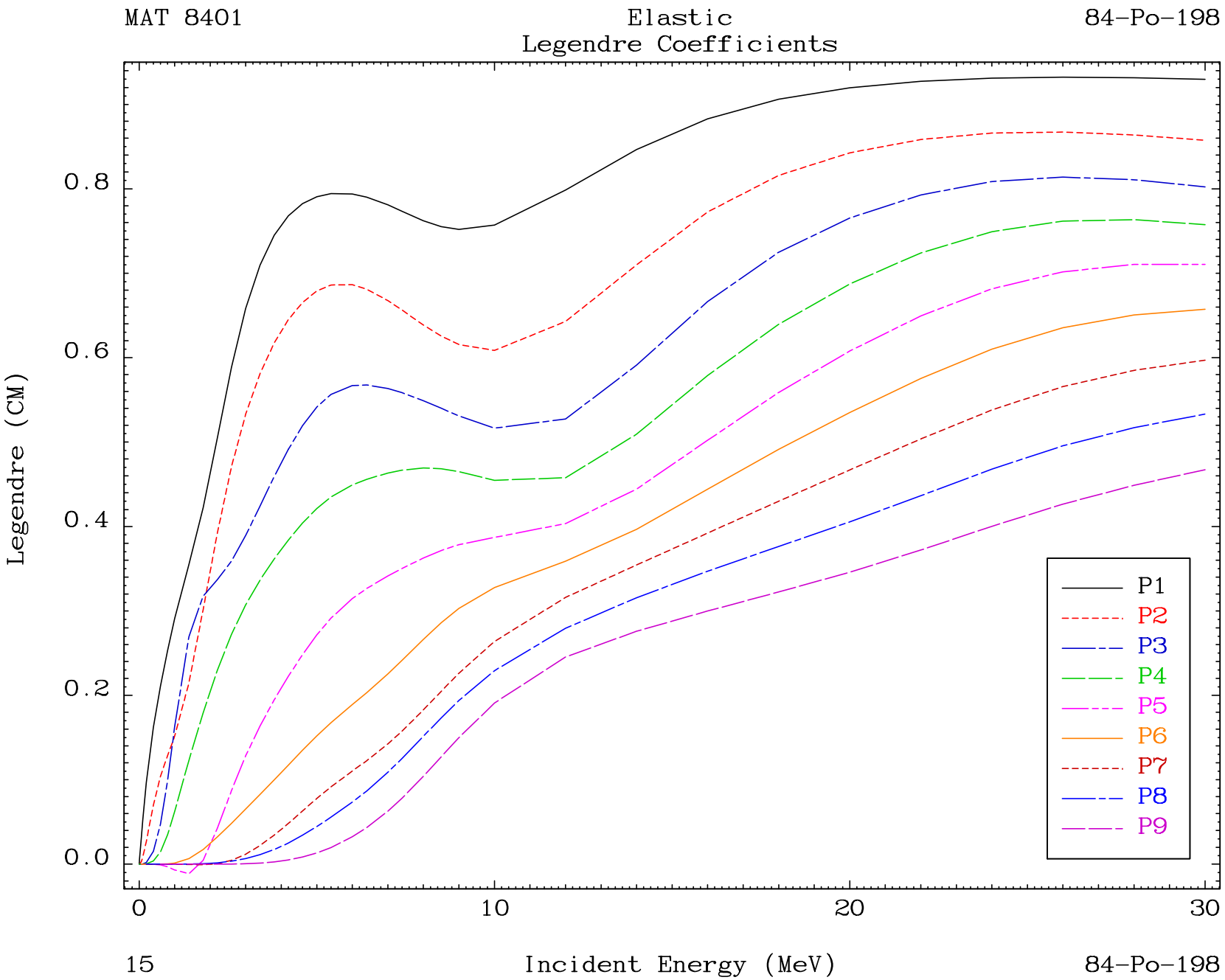

MAT 8401
(n,d) Levels
84-Po-198
293 Kelvin Cross Sections
(n,d)
Cross Section (barns)
10^-2
10^-4
10^-6
10^-8
10^0
10^1
10^2
Incident Energy (MeV)
84-Po-198

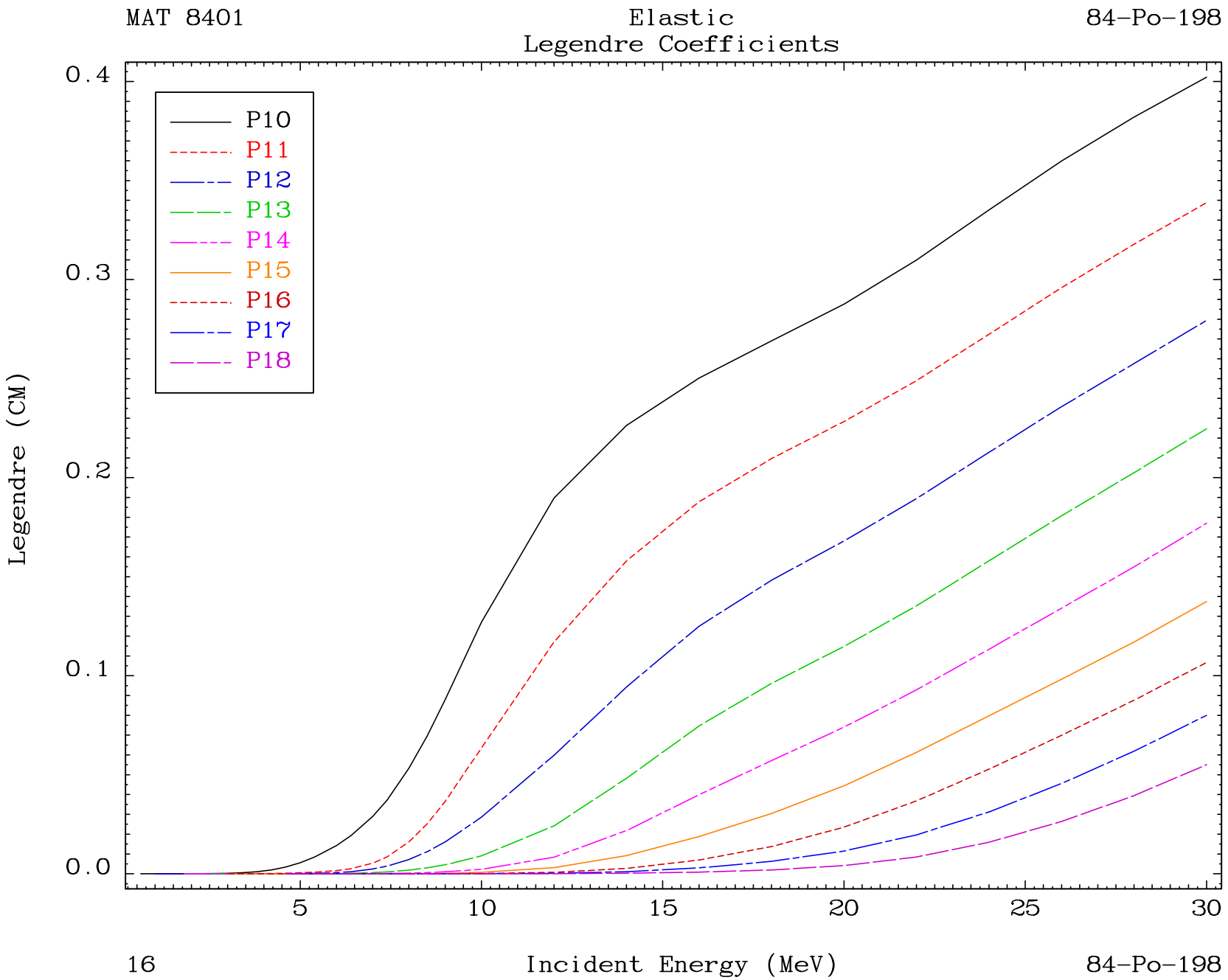

MAT 8401
(n,t) Levels
84-Po-198
293 Kelvin Cross Sections
(n,t)
Cross Section (barns)
Incident Energy (MeV)
11
84-Po-198

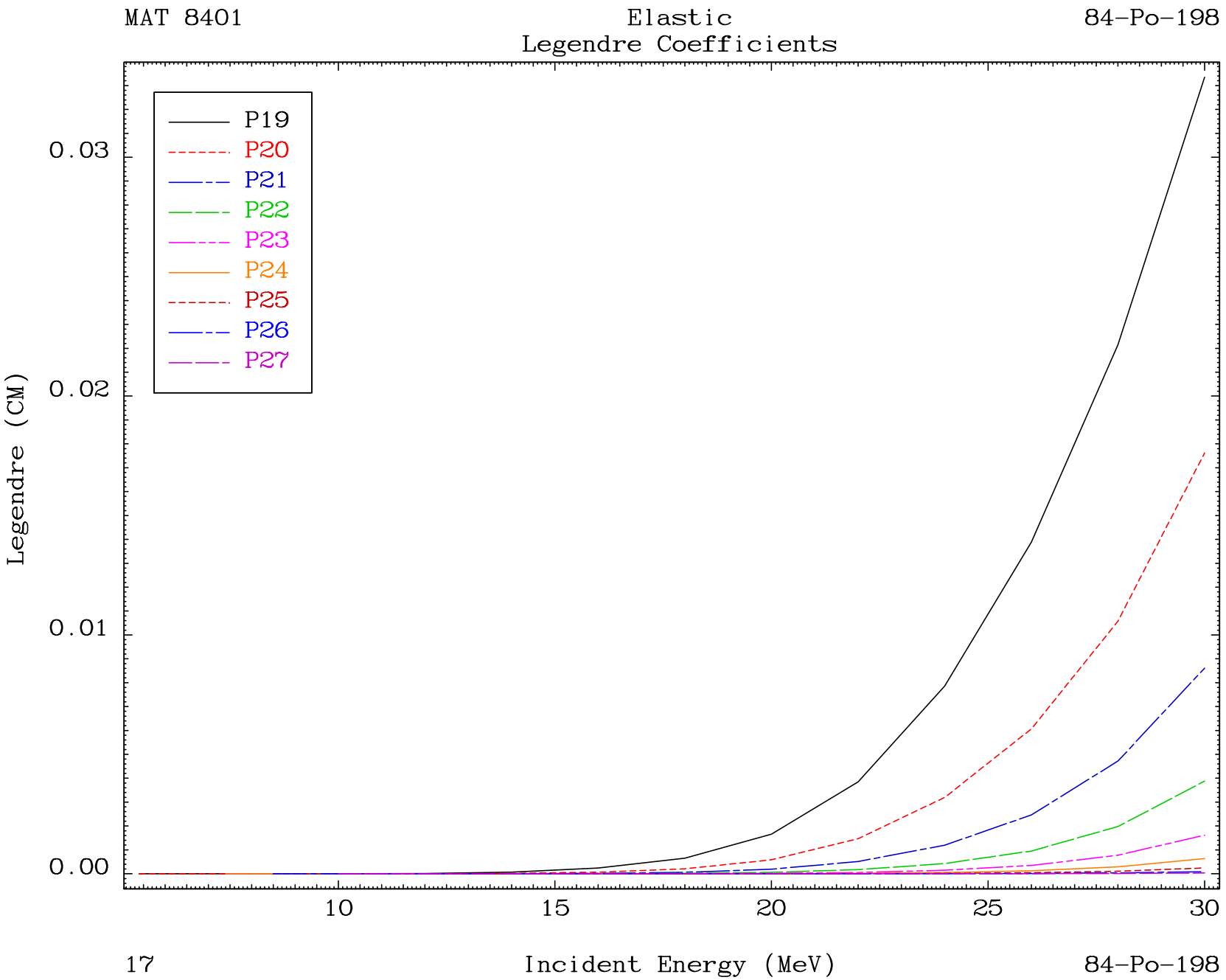

MAT 8401
(n,He3) Levels
84-Po-198
293 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
Incident Energy (MeV)
12
84-Po-198

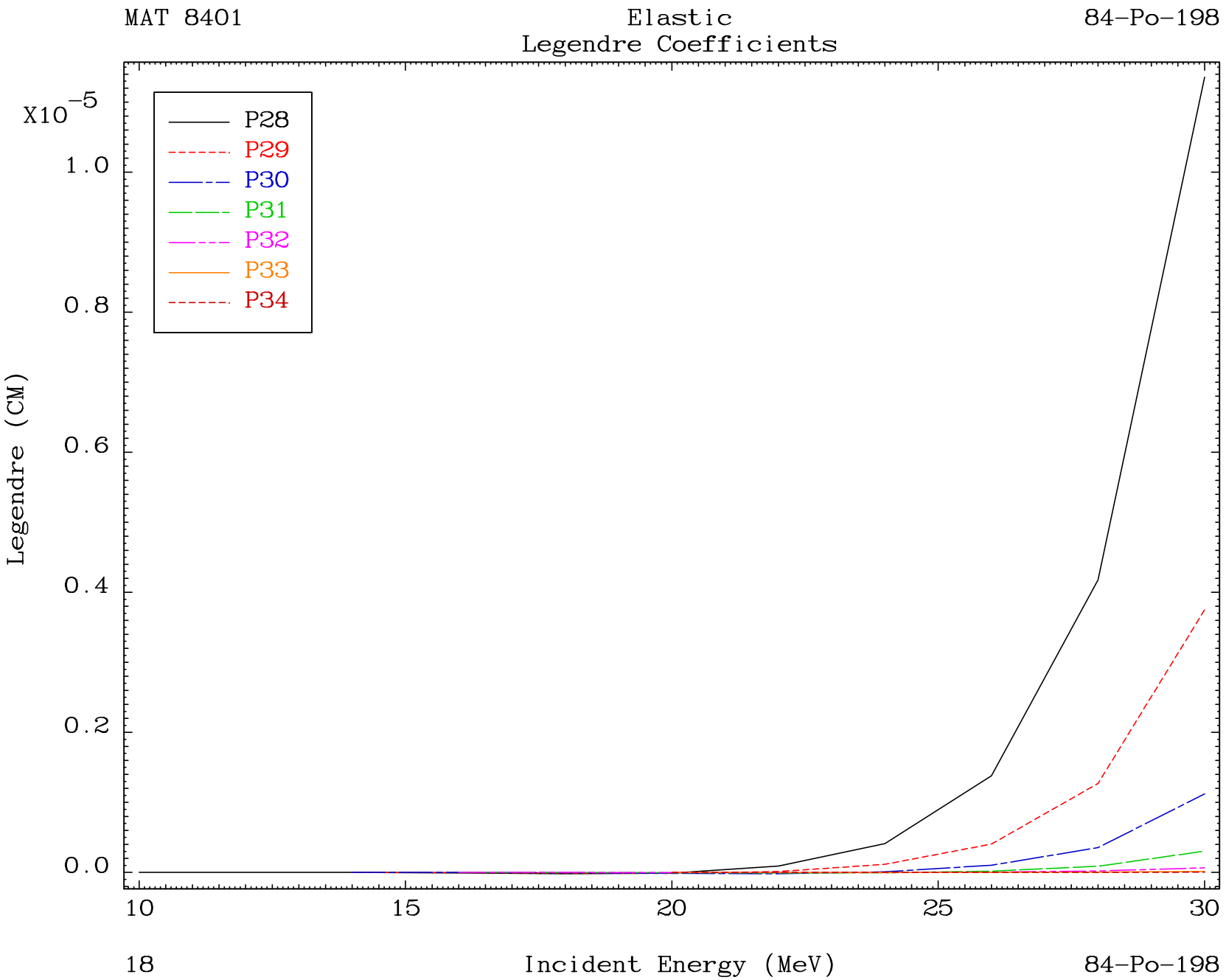

MAT 8401
(n,α) Levels
84-Po-198
293 Kelvin Cross Sections
Cross Section (barns)
(n,α)
Incident Energy (MeV)
13
84-Po-198

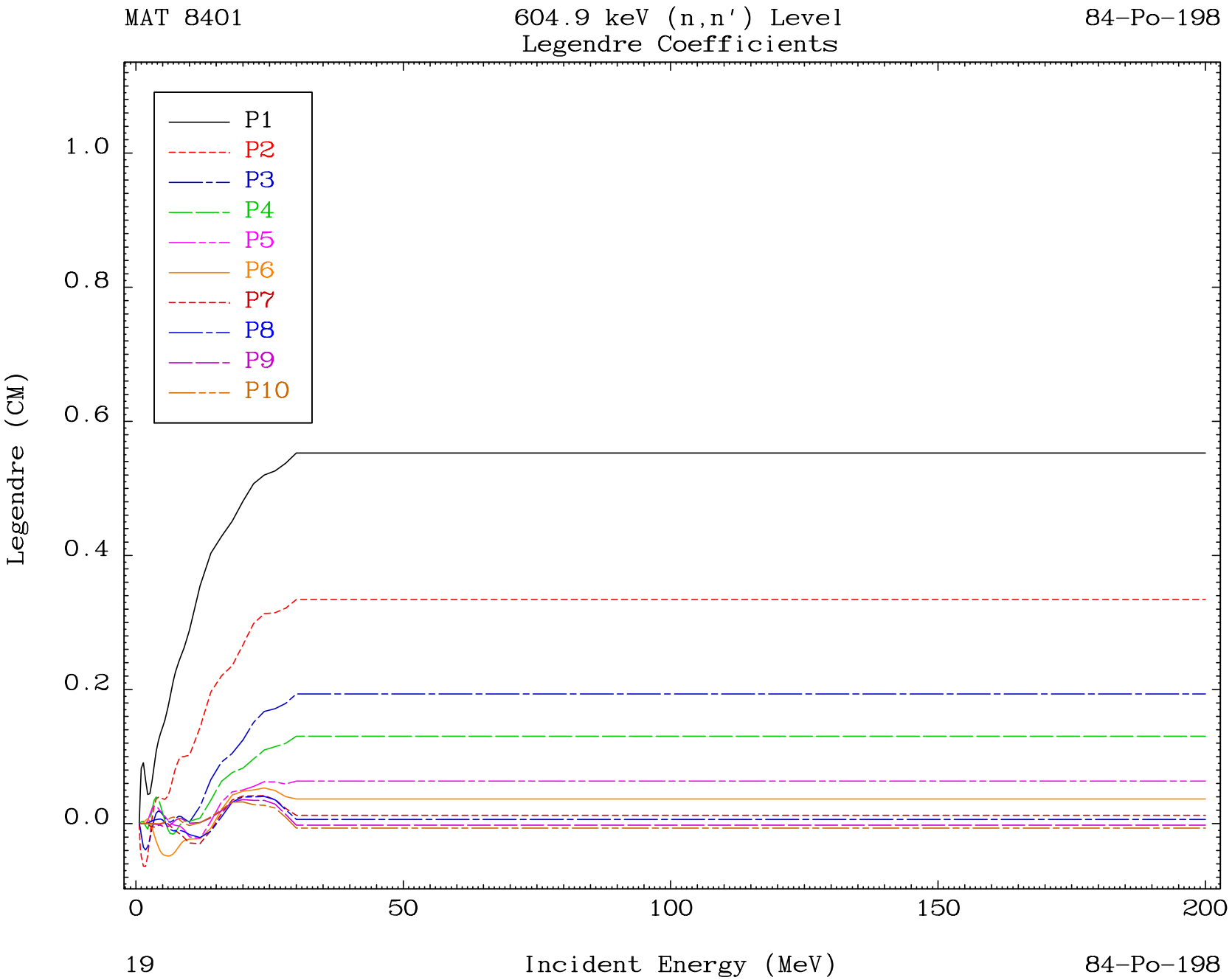

MAT 8401
Energy Release Parameters
84-Po-198
Kerma total (eV-barns)
Kerma elastic
Kerma non-elastic (all but mt2)
Kerma inelastic (mt51-91)
Kerma capture (mt102)
Total photon (eV-barns)
Total kinematic kerma (high limit)
Dpa total (eV-barns)
Dpa disappearance (mt102 -120)
Parameters
$10^{16}$
$10^{14}$
$10^{12}$
$10^{10}$
$10^{8}$
$10^{6}$
$10^{-10}$
$10^{-8}$
$10^{-6}$
$10^{-4}$
$10^{-2}$
$10^{0}$
$10^{2}$
14
Incident Energy (MeV)
84-Po-198

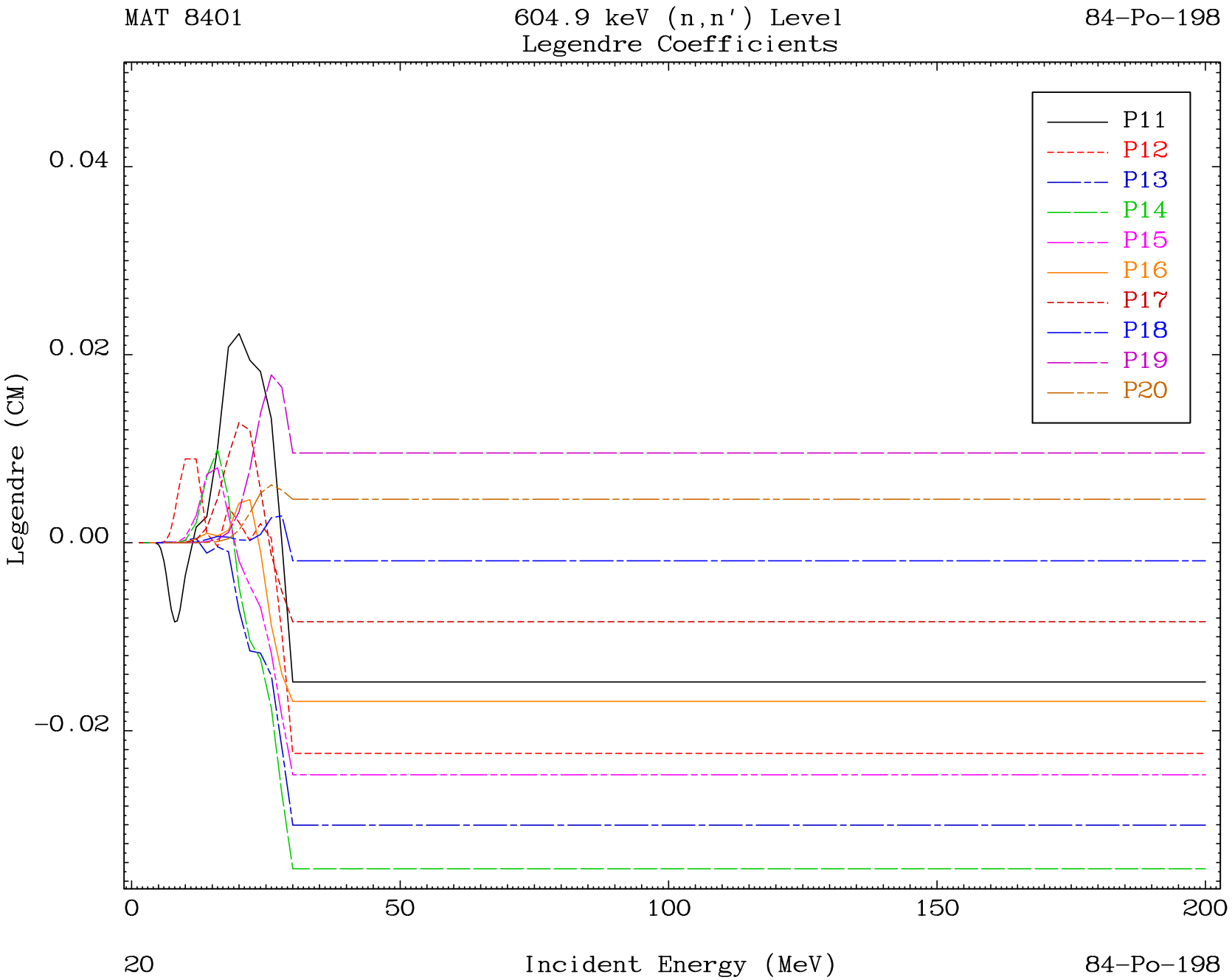

MAT 8401
Elastic
Legendre Coefficients
84-Po-198
Legendre (CM)
0.0
0.2
0.4
0.6
0.8
0
10
20
30
15
Incident Energy (MeV)
84-Po-198
P1
P2
P3
P4
P5
P6
P7
P8
P9

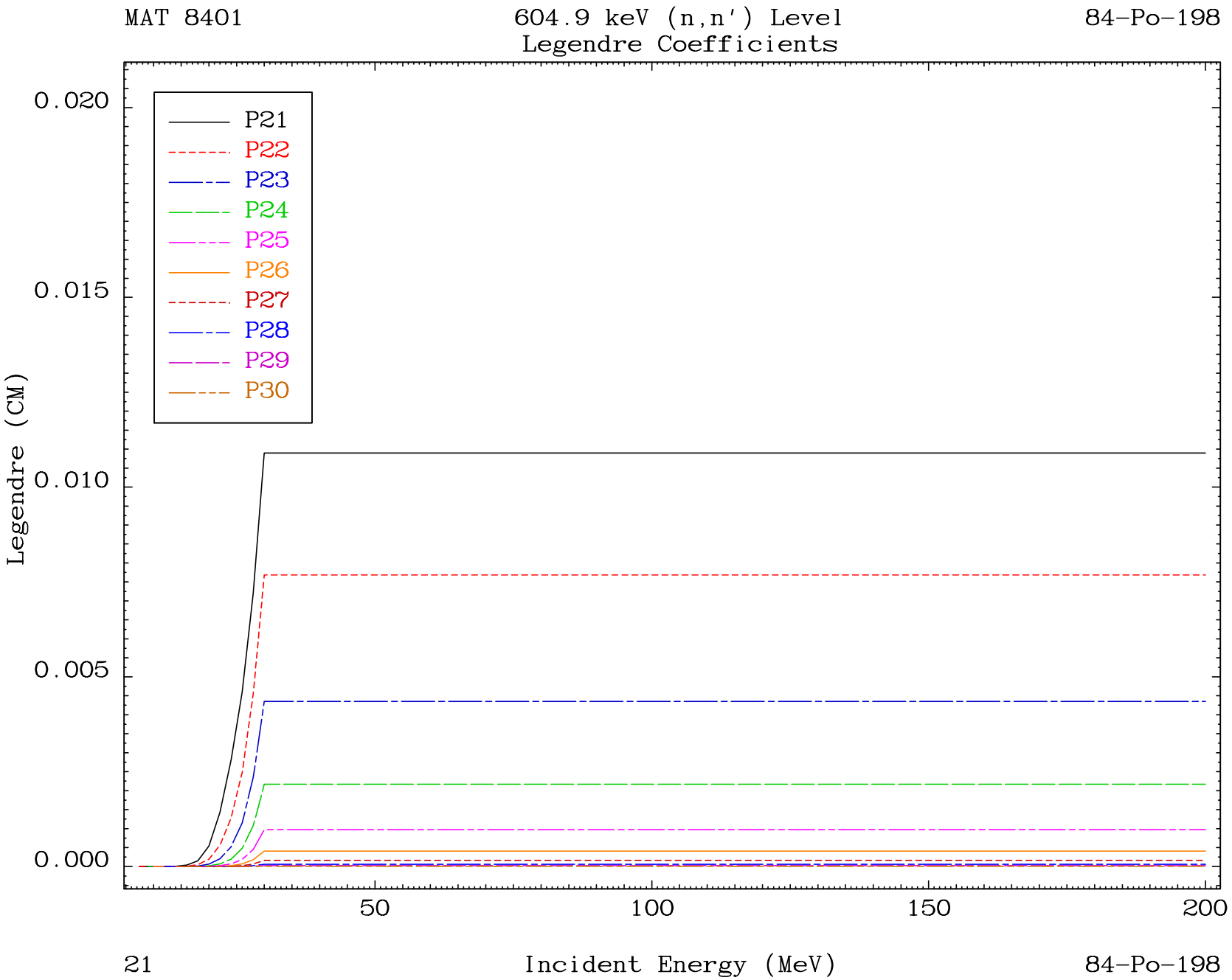

MAT 8401
Elastic
Legendre Coefficients
84-Po-198
P10
P11
P12
P13
P14
P15
P16
P17
P18
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
5
10
15
20
25
30
16
Incident Energy (MeV)
84-Po-198

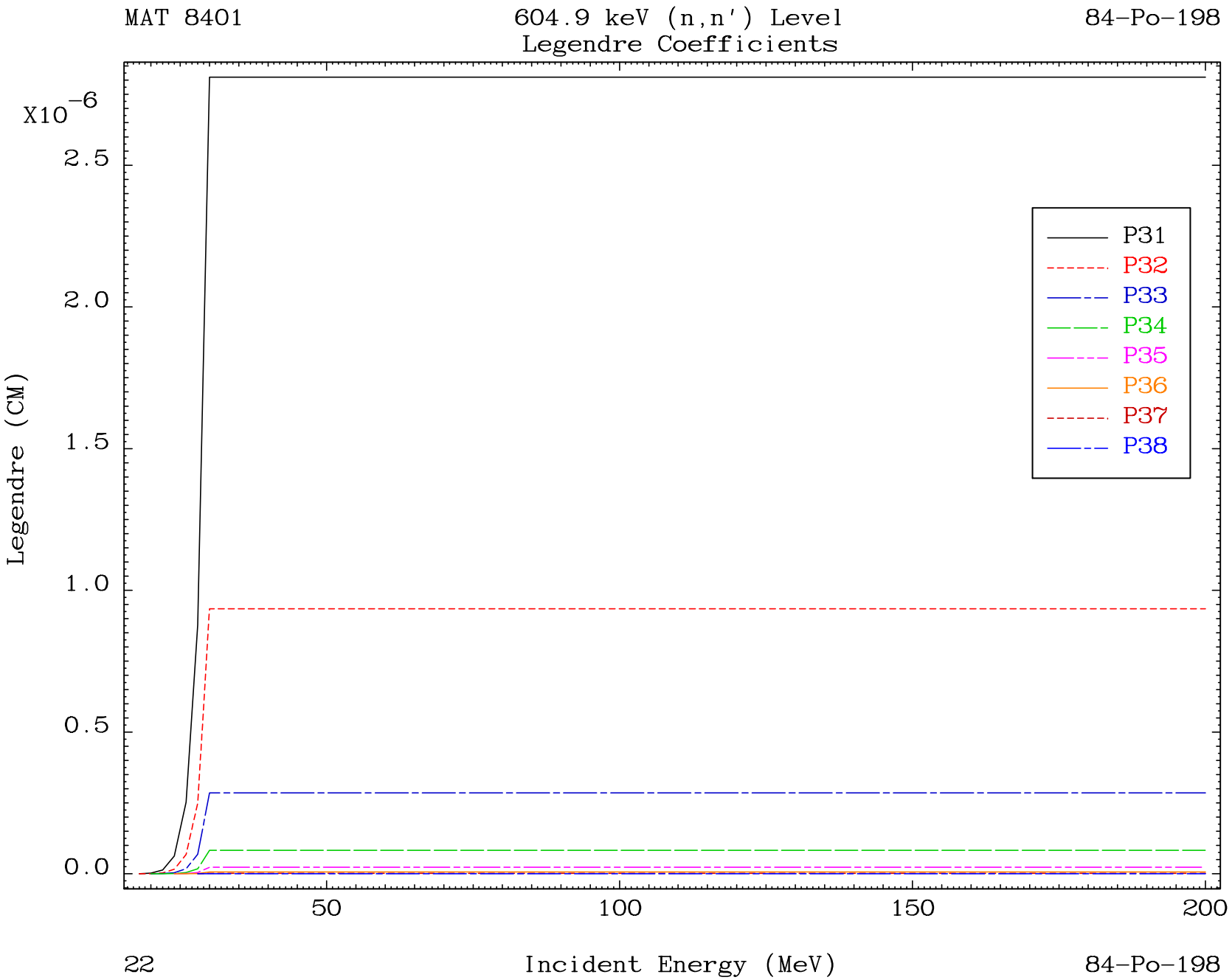

MAT 8401
Elastic
Legendre Coefficients
84-Po-198
P19
P20
P21
P22
P23
P24
P25
P26
P27
0.03
0.02
0.01
0.00
Legendre (CM)
10
15
20
25
30
17
Incident Energy (MeV)
84-Po-198

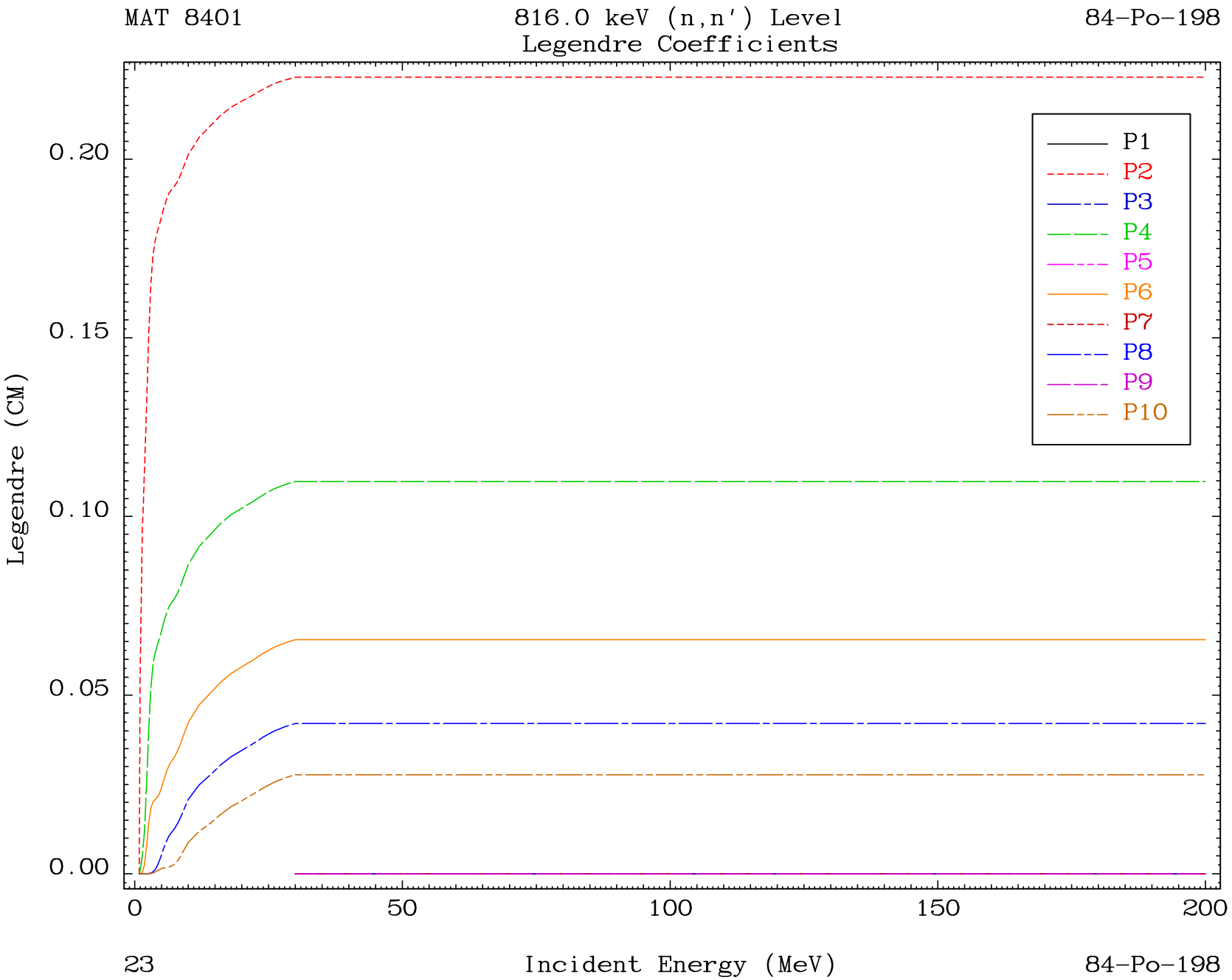

MAT 8401
Elastic
Legendre Coefficients
84-Po-198
X10 -5
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
10
15
20
25
30
18
Incident Energy (MeV)
84-Po-198

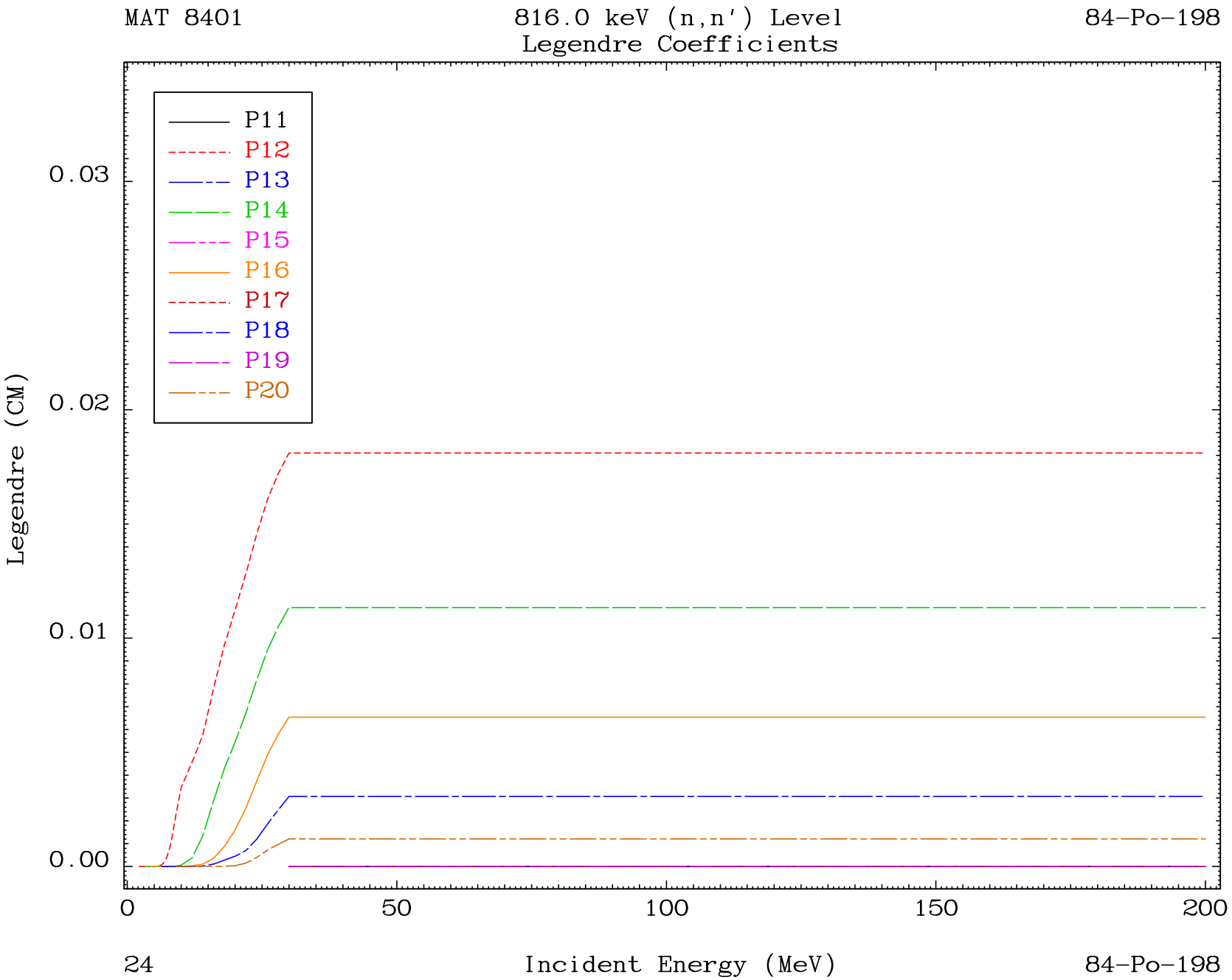

MAT 8401
604.9 keV (n,n') Level
Legendre Coefficients
84-Po-198
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
Legendre (CM)
1.0
0.8
0.6
0.4
0.2
0.0
0
50
100
150
200
19
Incident Energy (MeV)
84-Po-198

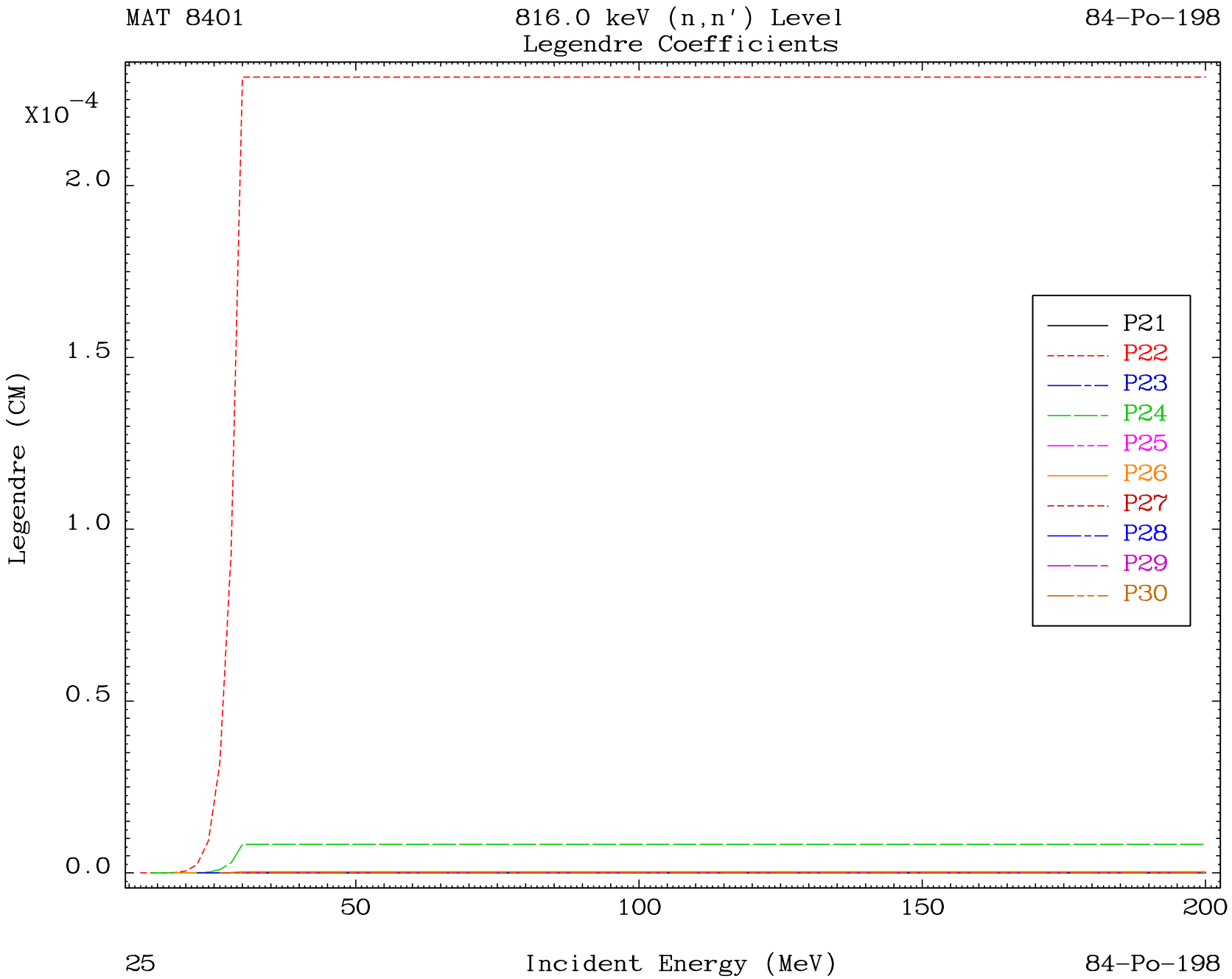

MAT 8401
604.9 keV (n,n') Level
Legendre Coefficients
84-Po-198
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.04
0.02
0.00
-0.02
Legendre (CM)
0
50
100
150
200
20
Incident Energy (MeV)
84-Po-198

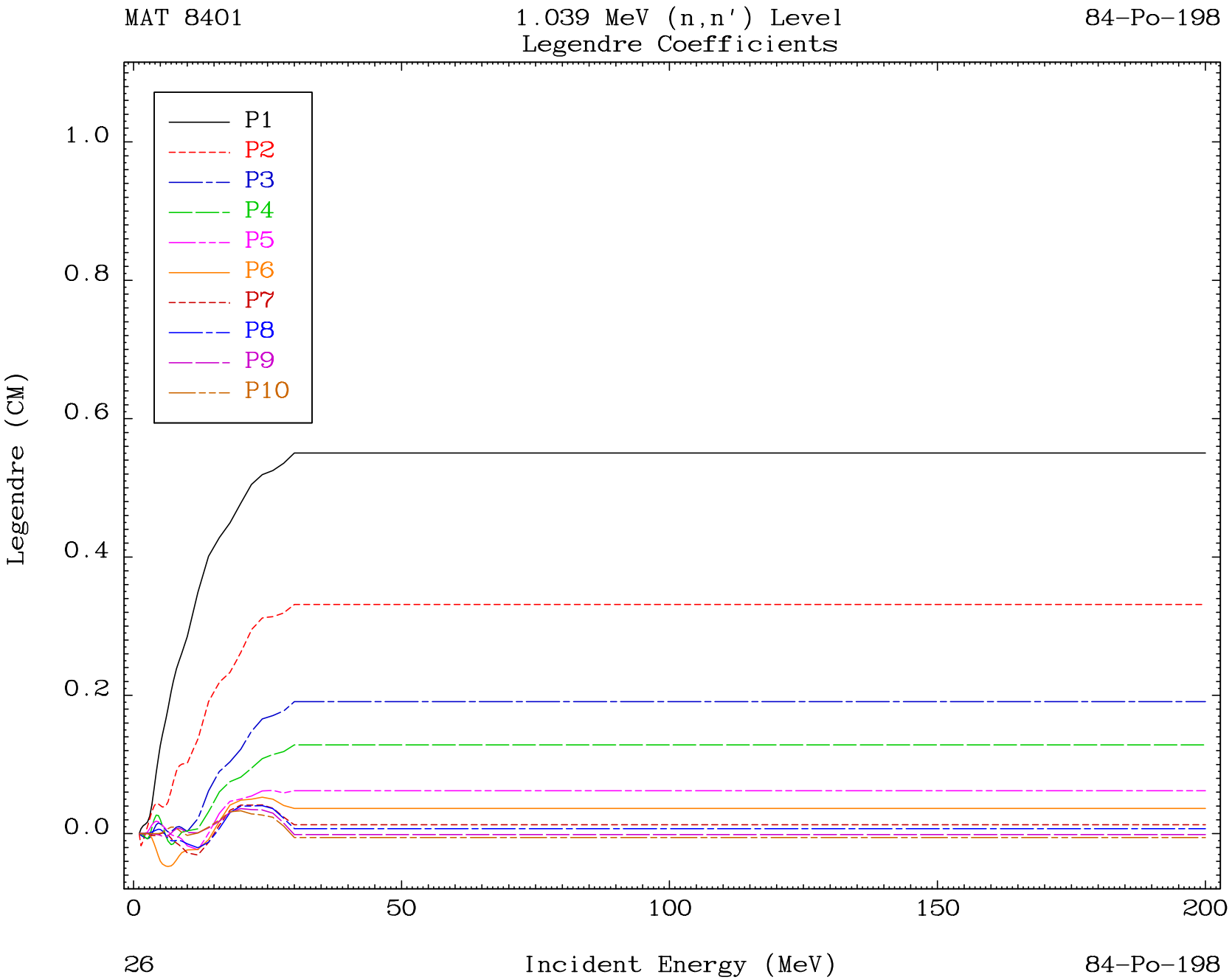

MAT 8401
604.9 keV (n,n') Level
Legendre Coefficients
84-Po-198
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
0.020
0.015
0.010
0.005
0.000
Legendre (CM)
50
100
150
200
21
Incident Energy (MeV)
84-Po-198

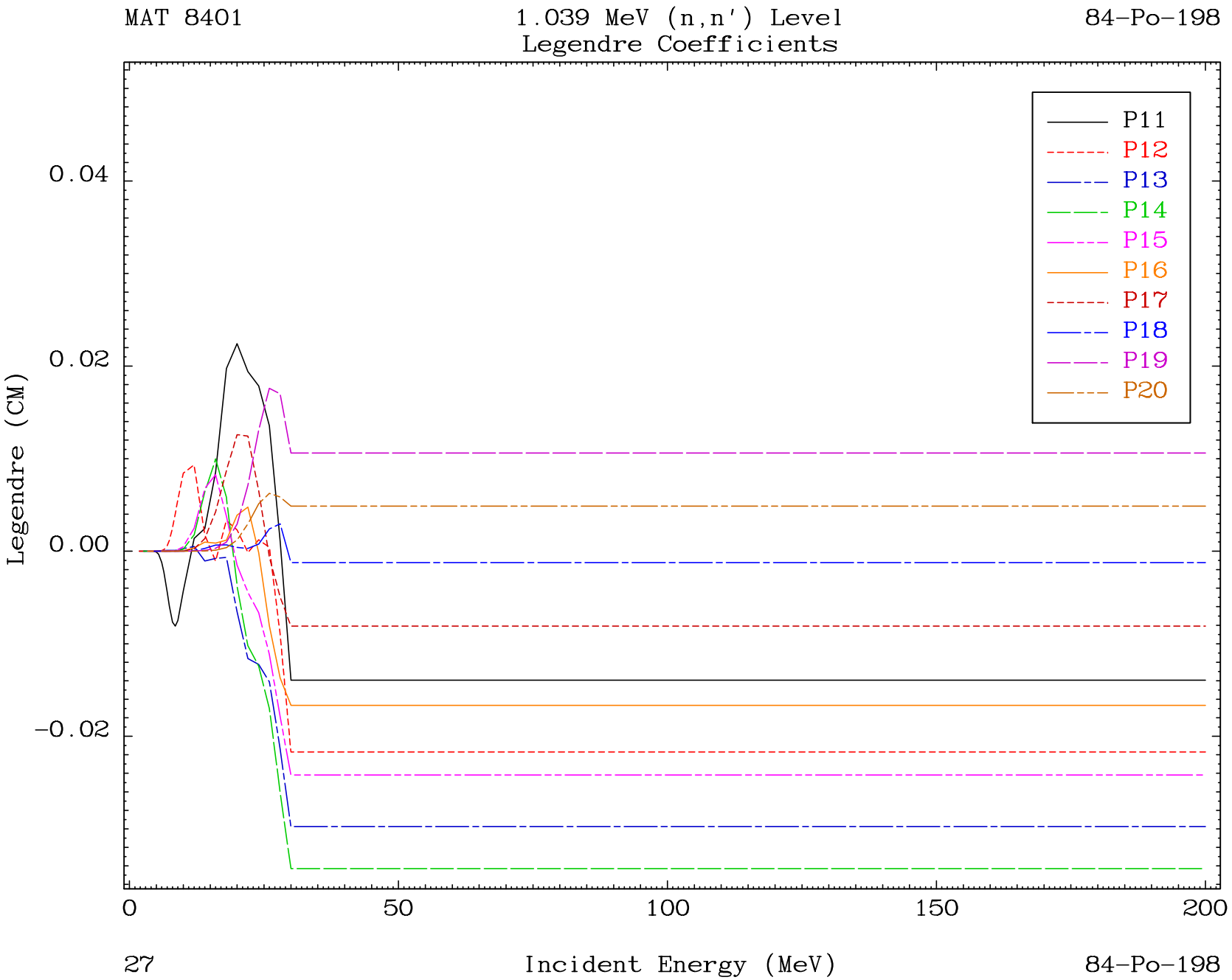

MAT 8401
604.9 keV (n,n') Level
Legendre Coefficients
84-Po-198
X10^-6
2.5
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P31
P32
P33
P34
P35
P36
P37
P38
50
100
150
200
22
Incident Energy (MeV)
84-Po-198

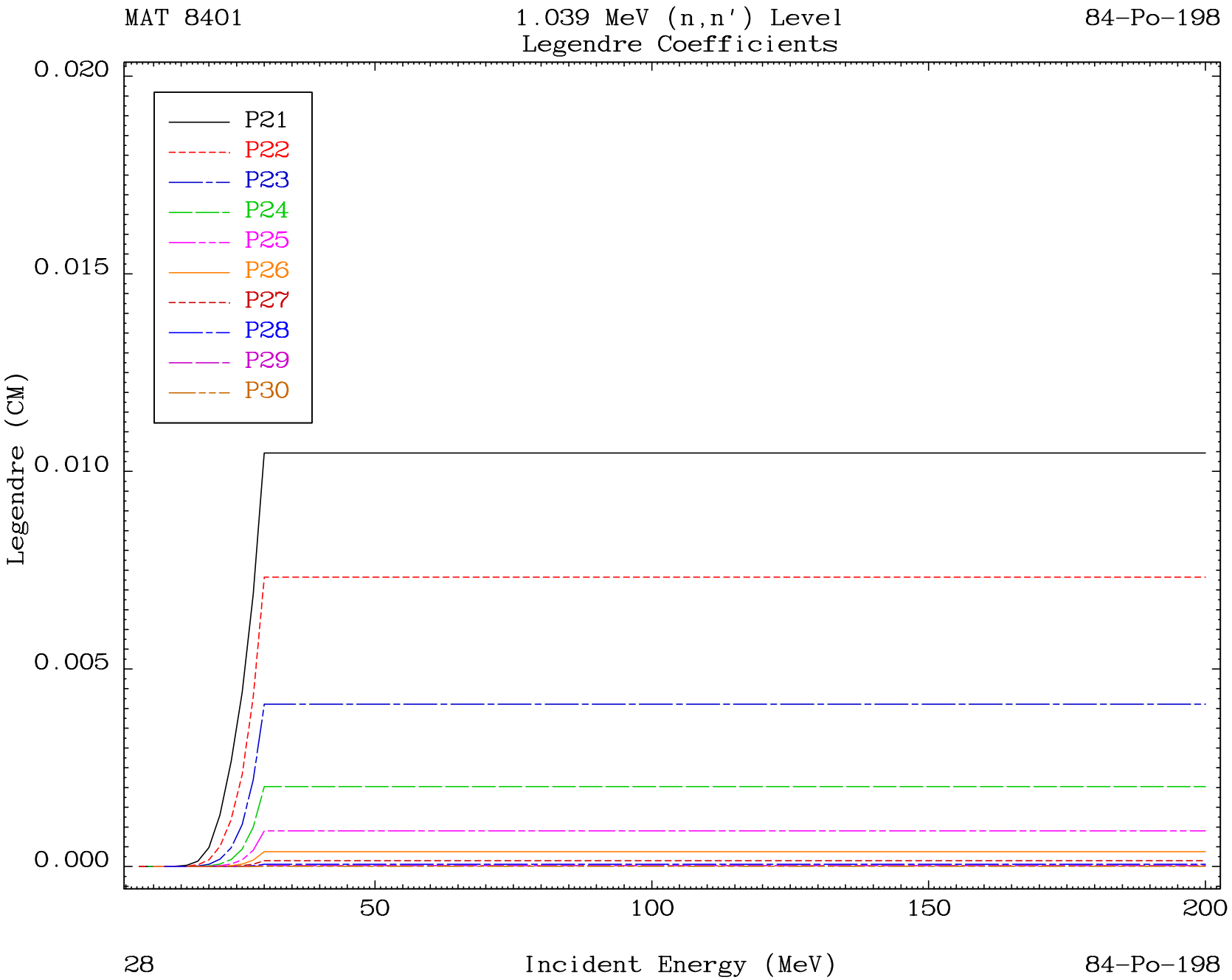

MAT 8401
816.0 keV (n,n') Level
Legendre Coefficients
84-Po-198
Legendre (CM)
0.20
0.15
0.10
0.05
0.00
0
50
100
150
200
Incident Energy (MeV)
23
84-Po-198
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10

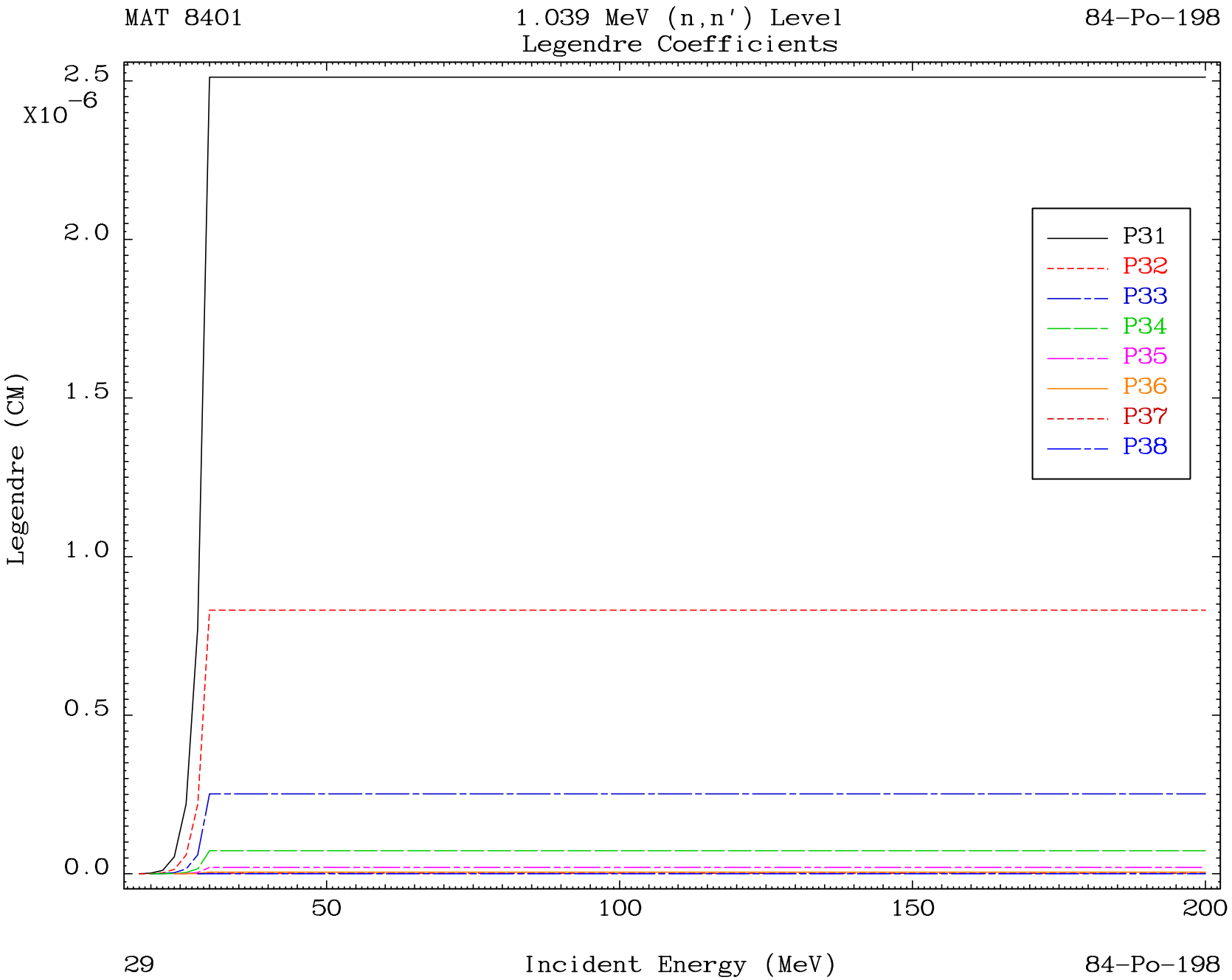

MAT 8401
816.0 keV (n,n') Level
Legendre Coefficients
84-Po-198
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.03
0.02
0.01
0.00
Legendre (CM)
0
50
100
150
200
24
Incident Energy (MeV)
84-Po-198

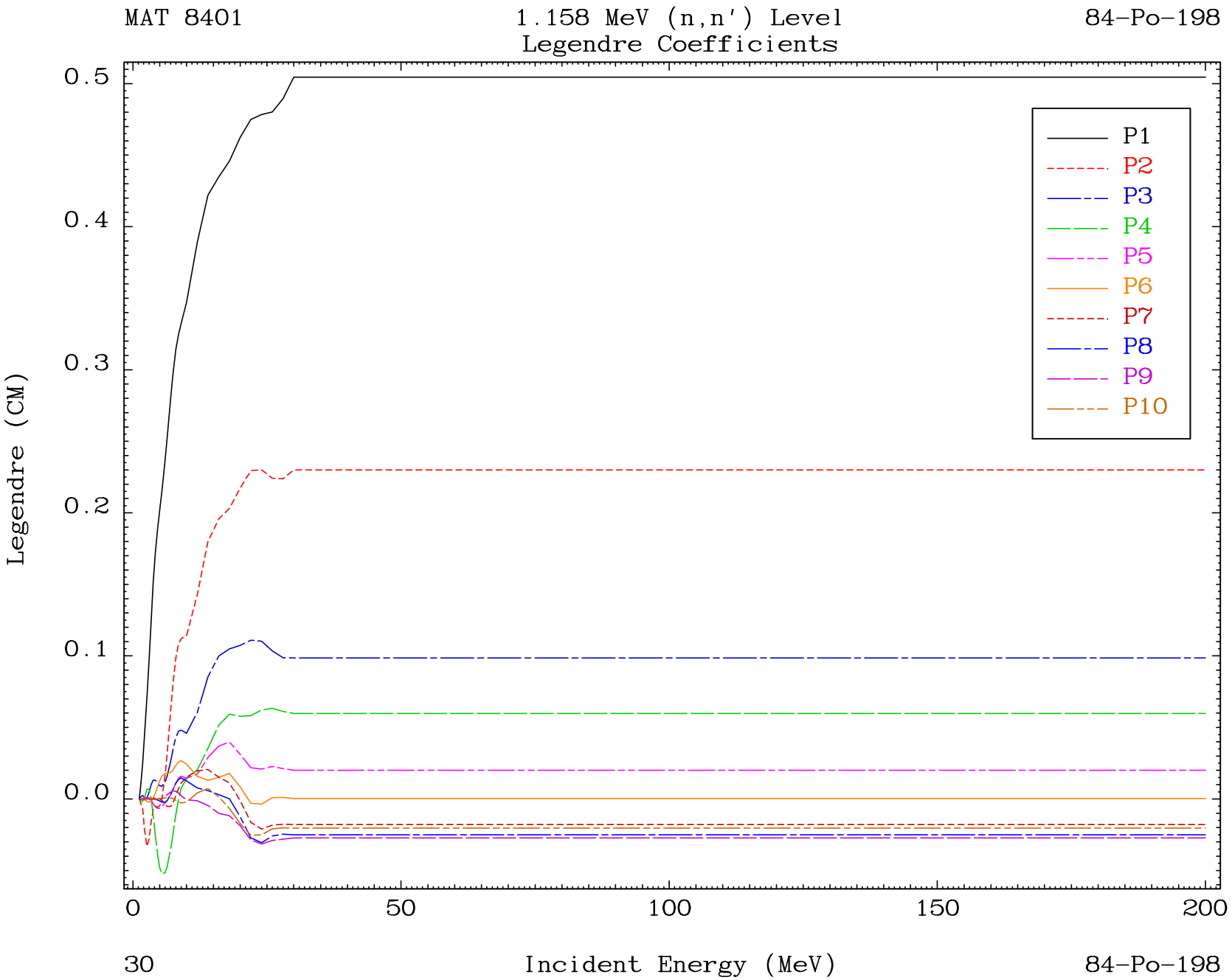

MAT 8401
816.0 keV (n,n') Level
Legendre Coefficients
84-Po-198
X10-4
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
50
100
150
200
25
Incident Energy (MeV)
84-Po-198

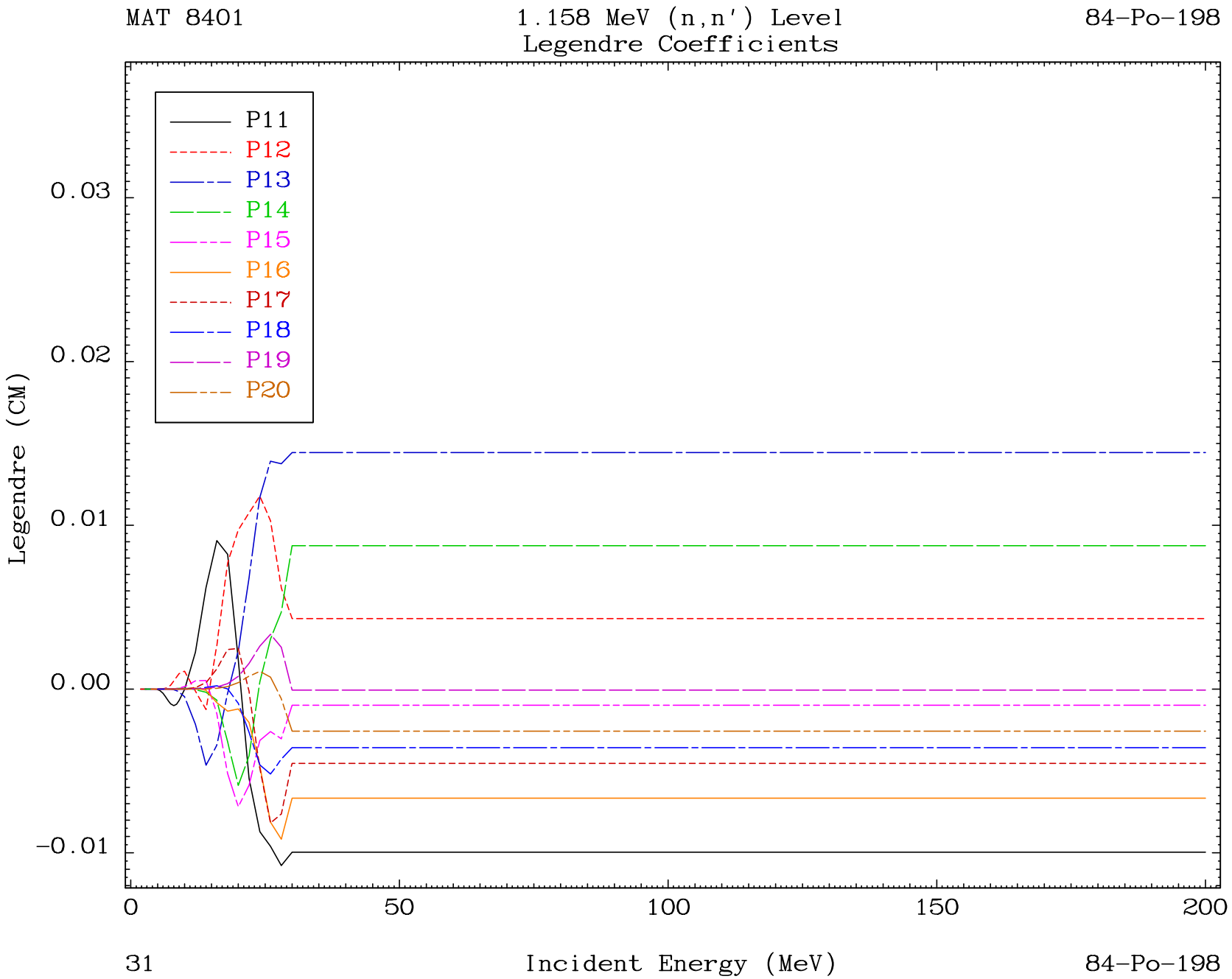

MAT 8401
1.039 MeV (n,n') Level
Legendre Coefficients
84-Po-198
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
0
50
100
150
200
26
Incident Energy (MeV)
84-Po-198

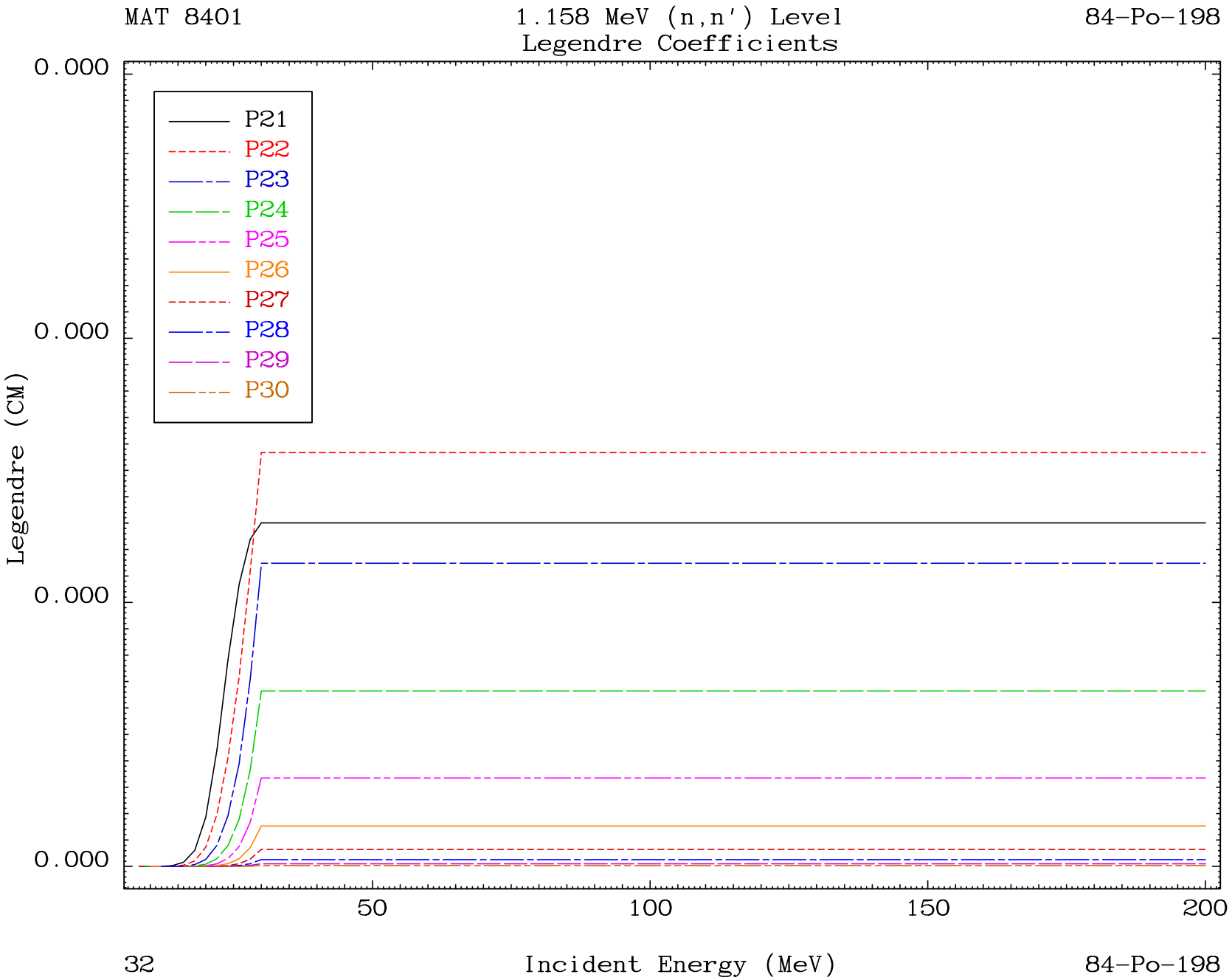

MAT 8401
1.039 MeV (n,n') Level
Legendre Coefficients
84-Po-198
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.04
0.02
0.00
-0.02
Legendre (CM)
0
50
100
150
200
27
Incident Energy (MeV)
84-Po-198

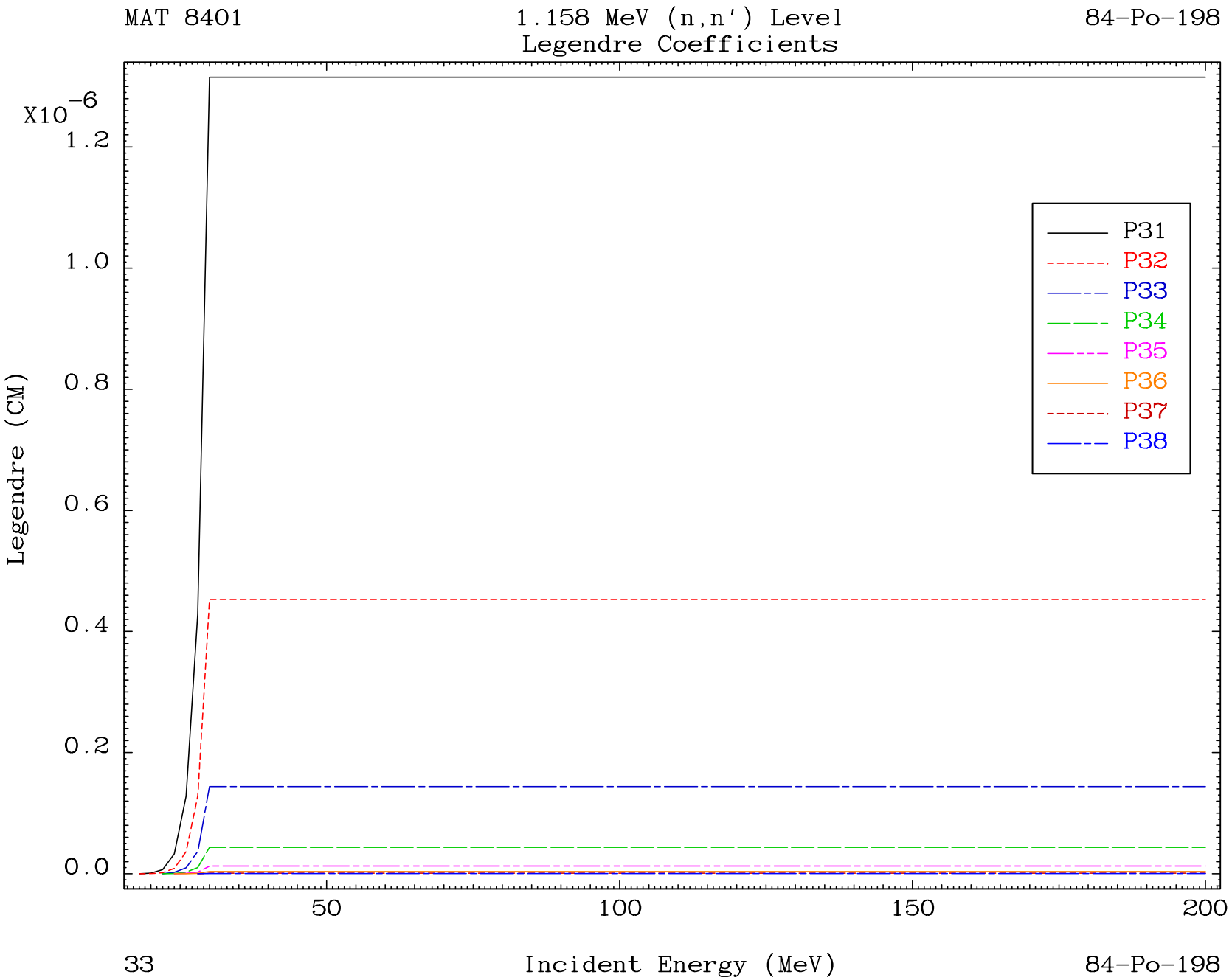

MAT 8401
1.039 MeV (n,n') Level
Legendre Coefficients
84-Po-198
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
0.020
0.015
0.010
0.005
0.000
Legendre (CM)
50
100
150
200
28
Incident Energy (MeV)
84-Po-198

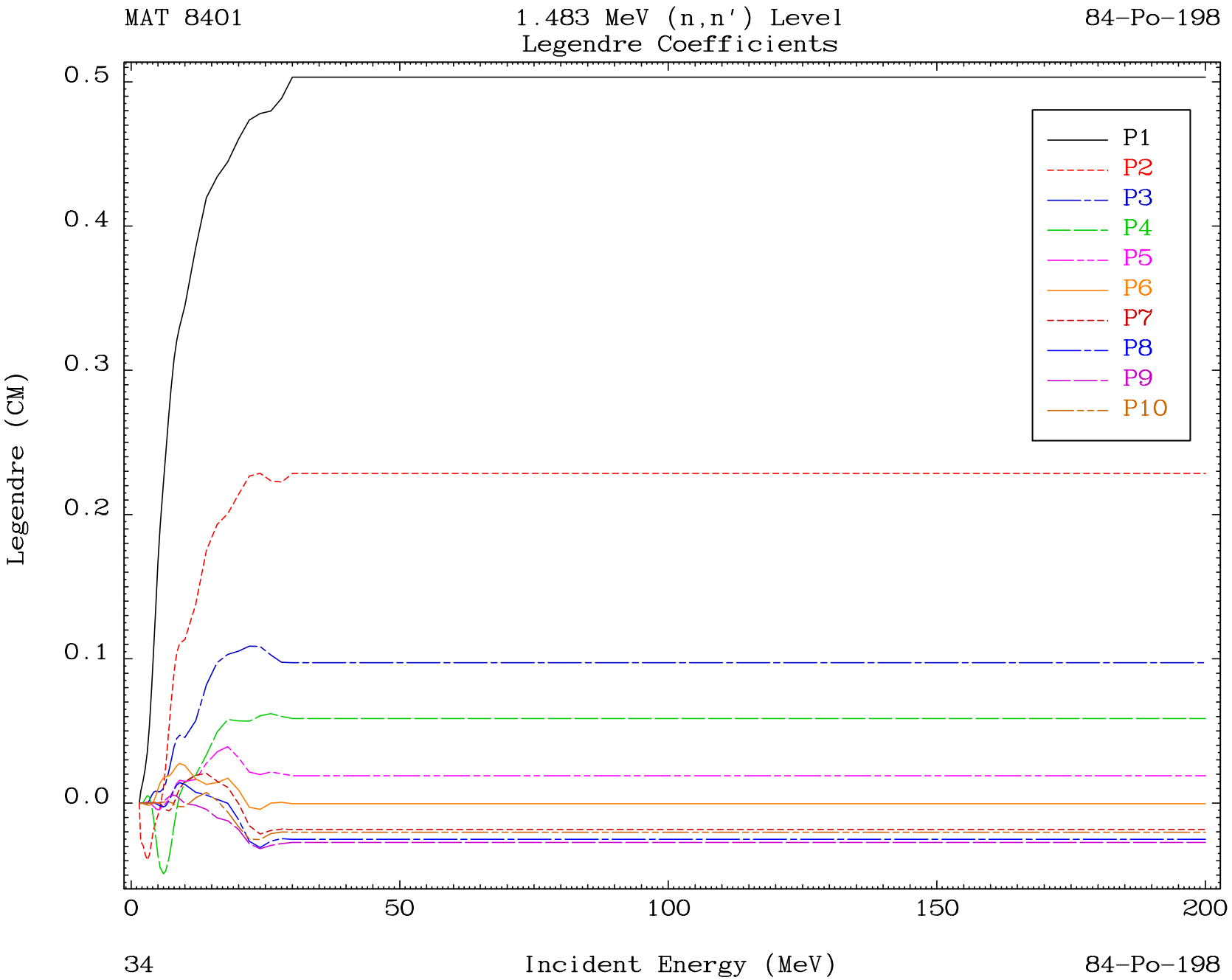

MAT 8401
1.039 MeV (n,n') Level
Legendre Coefficients
84-Po-198
X10 -6
2.5
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P31
P32
P33
P34
P35
P36
P37
P38
50
100
150
200
29
Incident Energy (MeV)
84-Po-198

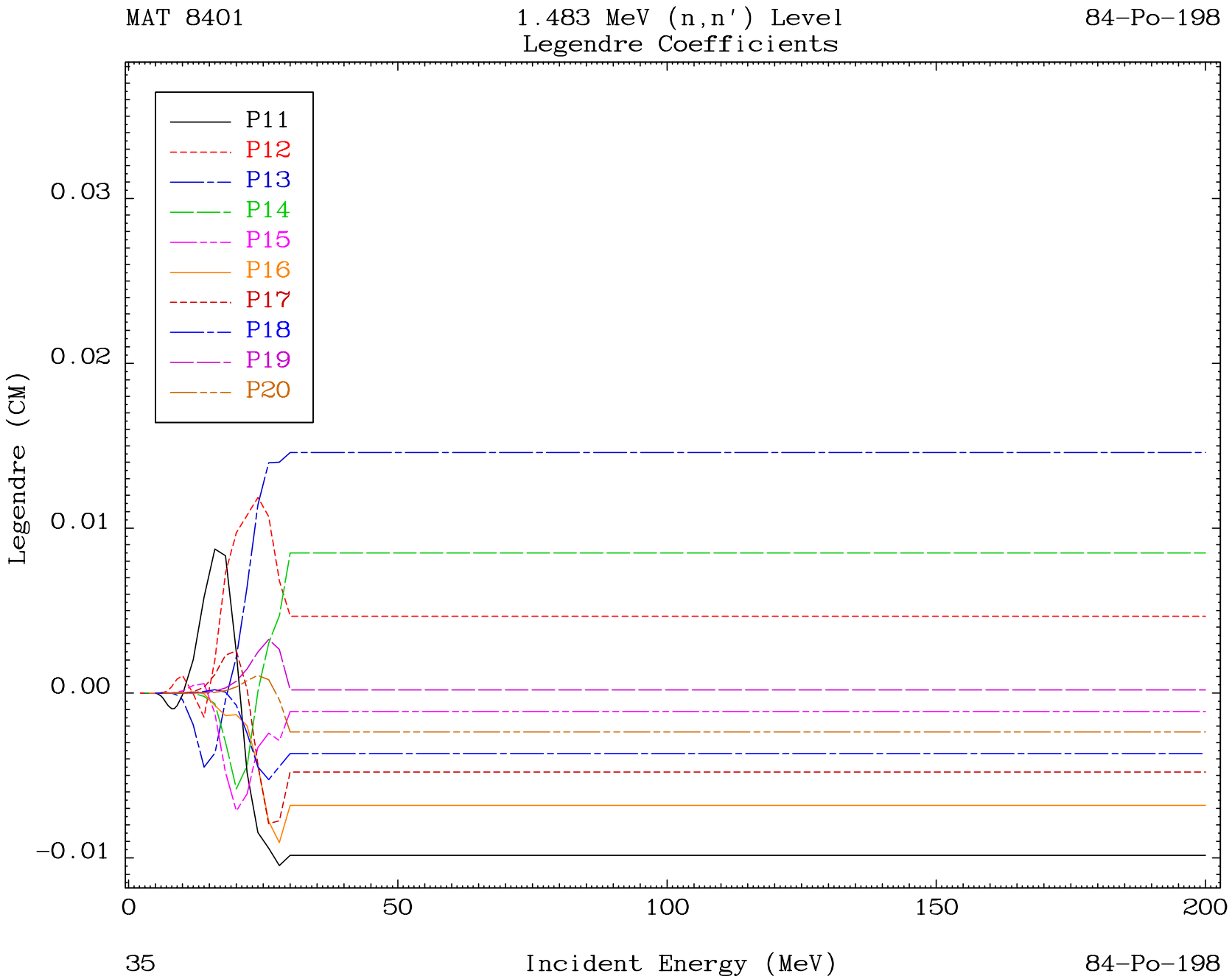

MAT 8401
1.158 MeV (n,n') Level
Legendre Coefficients
84-Po-198
0.5
0.4
0.3
0.2
0.1
0.0
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
0
50
100
150
200
30
Incident Energy (MeV)
84-Po-198

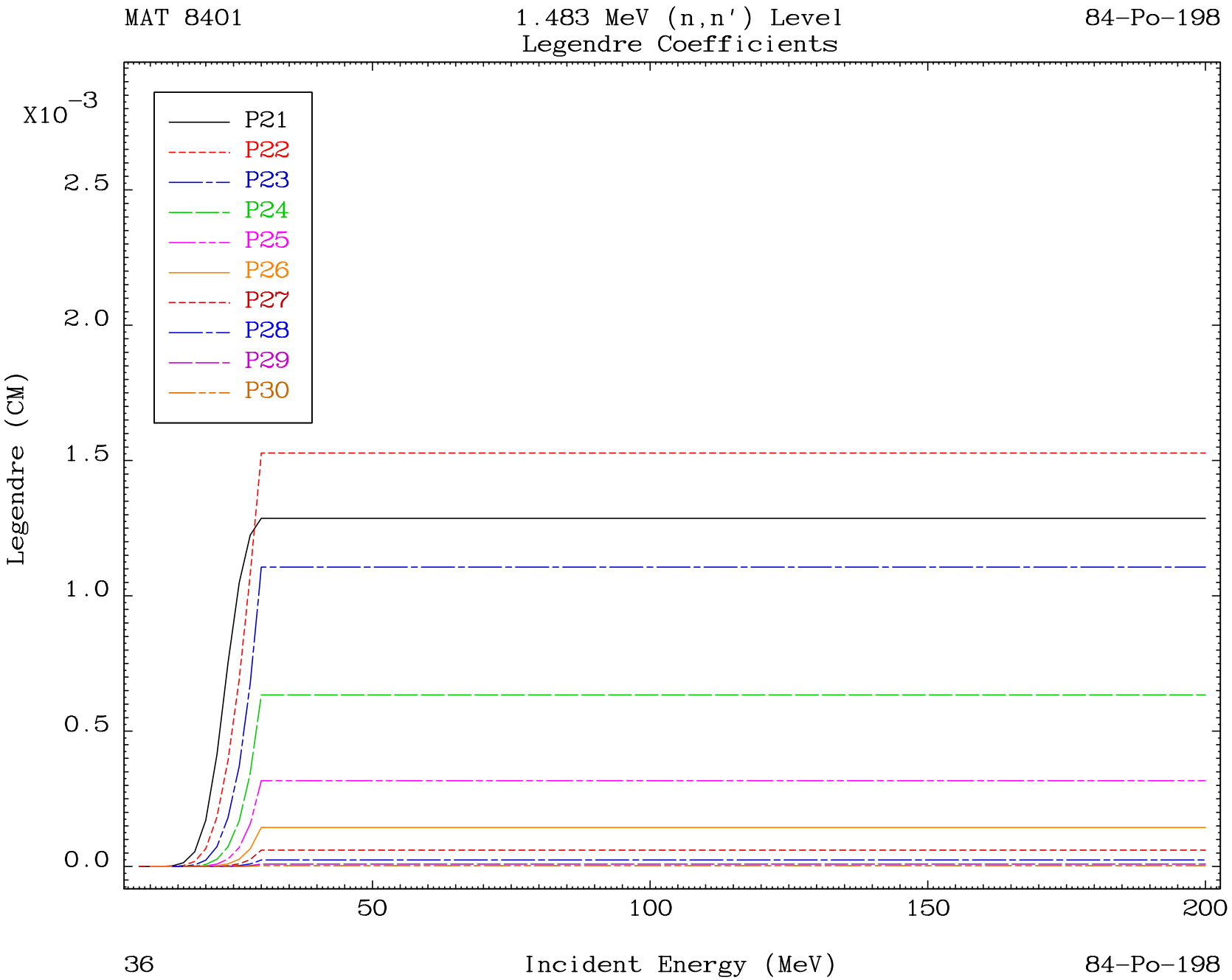

MAT 8401
1.158 MeV (n,n') Level
Legendre Coefficients
84-Po-198
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.03
0.02
0.01
0.00
-0.01
Legendre (CM)
0
50
100
150
200
31
Incident Energy (MeV)
84-Po-198

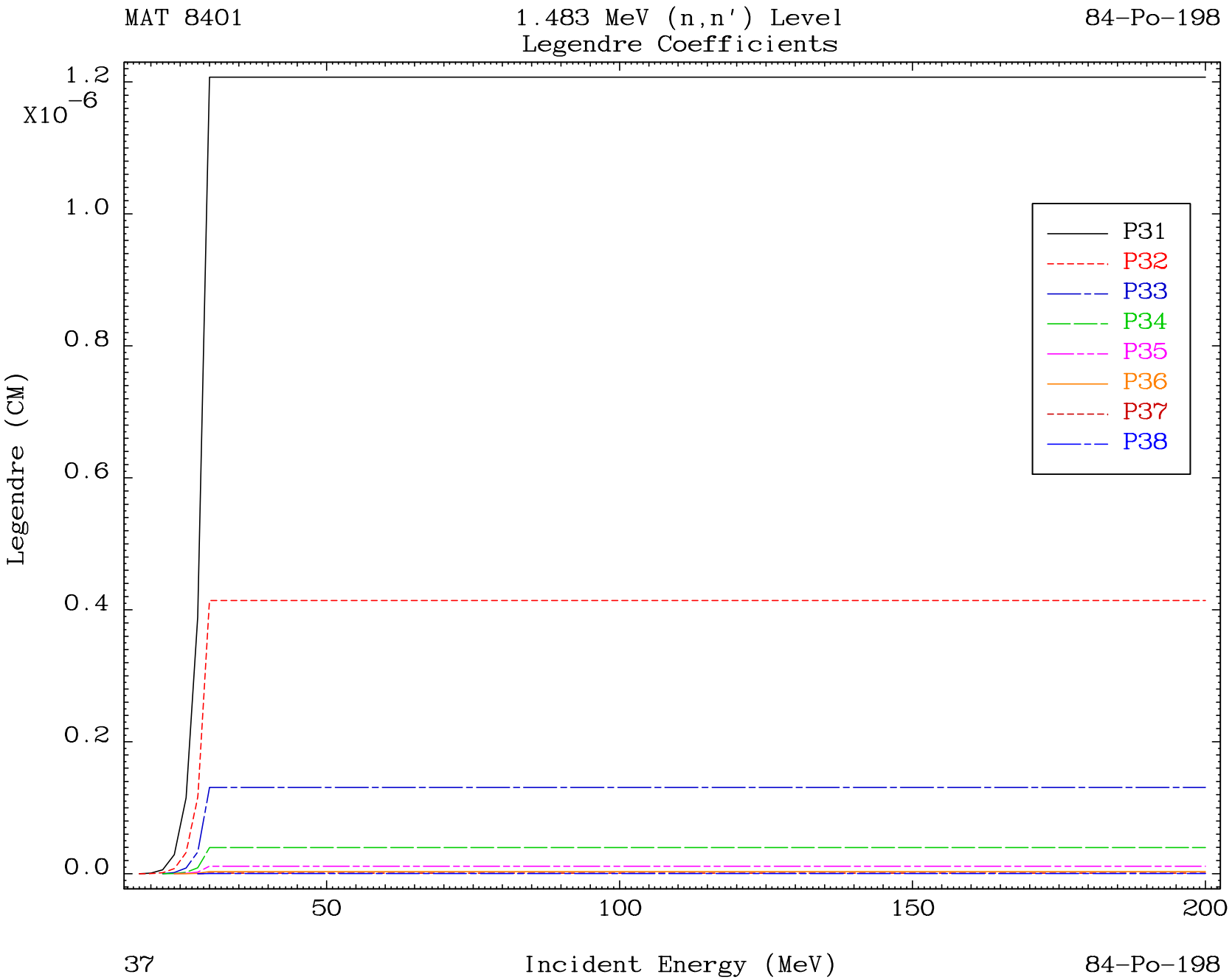

MAT 8401
1.158 MeV (n,n') Level
Legendre Coefficients
84-Po-198
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
0.000
0.000
0.000
0.000
Legendre (CM)
50
100
150
200
32
Incident Energy (MeV)
84-Po-198

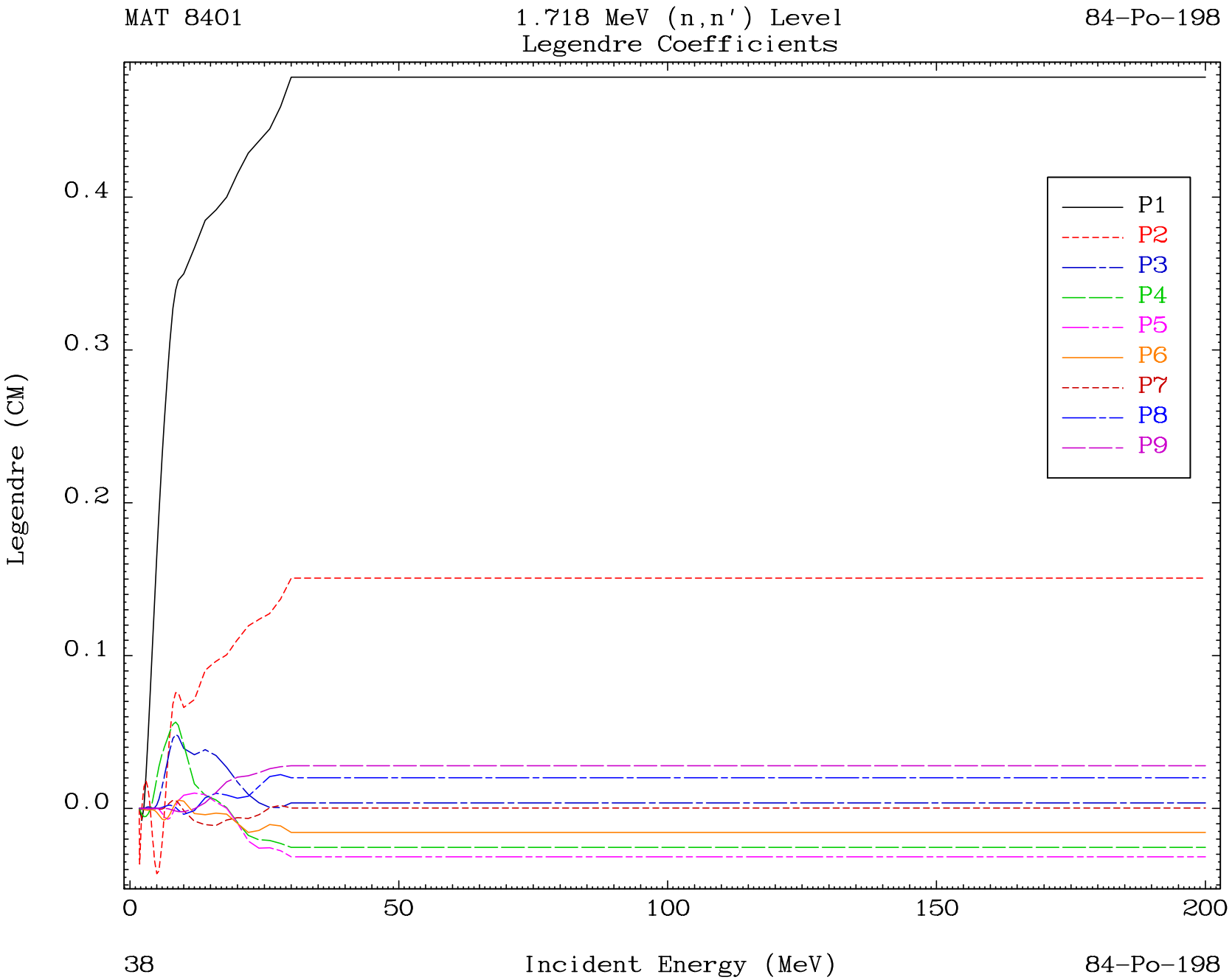

MAT 8401
1.158 MeV (n,n') Level
Legendre Coefficients
84-Po-198
X10^-6
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
P31
P32
P33
P34
P35
P36
P37
P38
50
100
150
200
33
Incident Energy (MeV)
84-Po-198

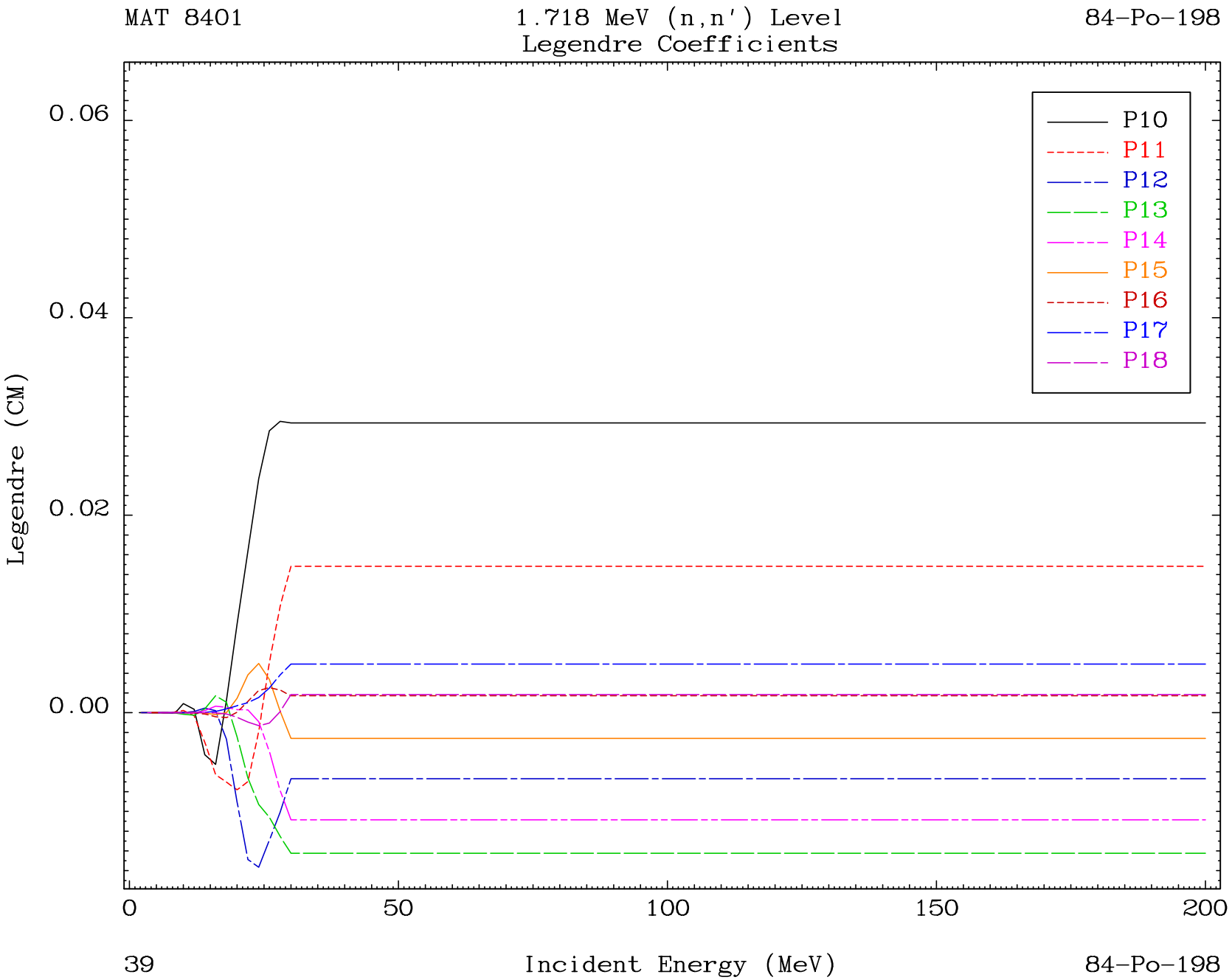

MAT 8401
1.483 MeV (n,n') Level
Legendre Coefficients
84-Po-198
Legendre (CM)
0.5
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
34
Incident Energy (MeV)
84-Po-198
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10

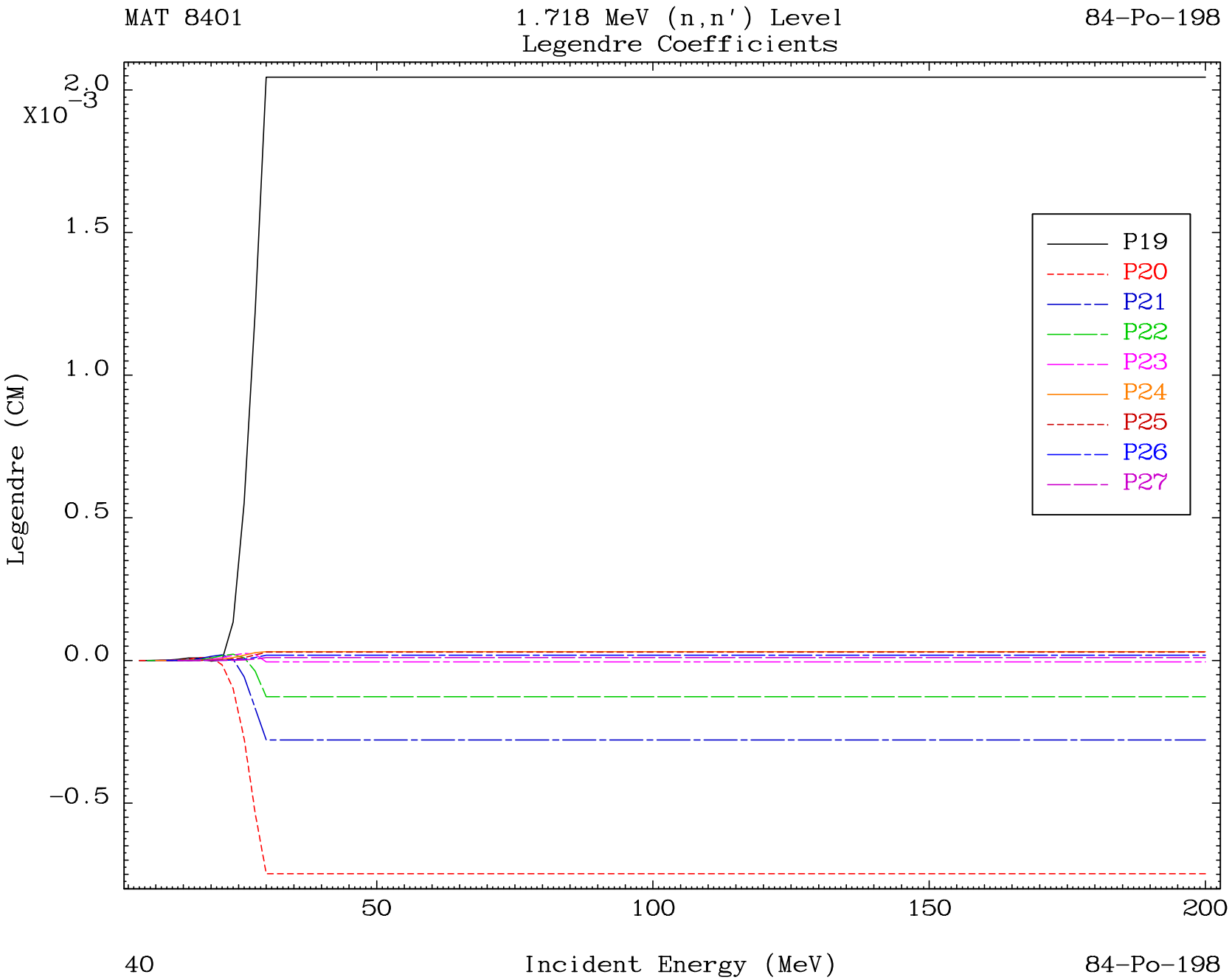

MAT 8401
1.483 MeV (n,n') Level
Legendre Coefficients
84-Po-198
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.03
0.02
0.01
0.00
-0.01
Legendre (CM)
0
50
100
150
200
35
Incident Energy (MeV)
84-Po-198

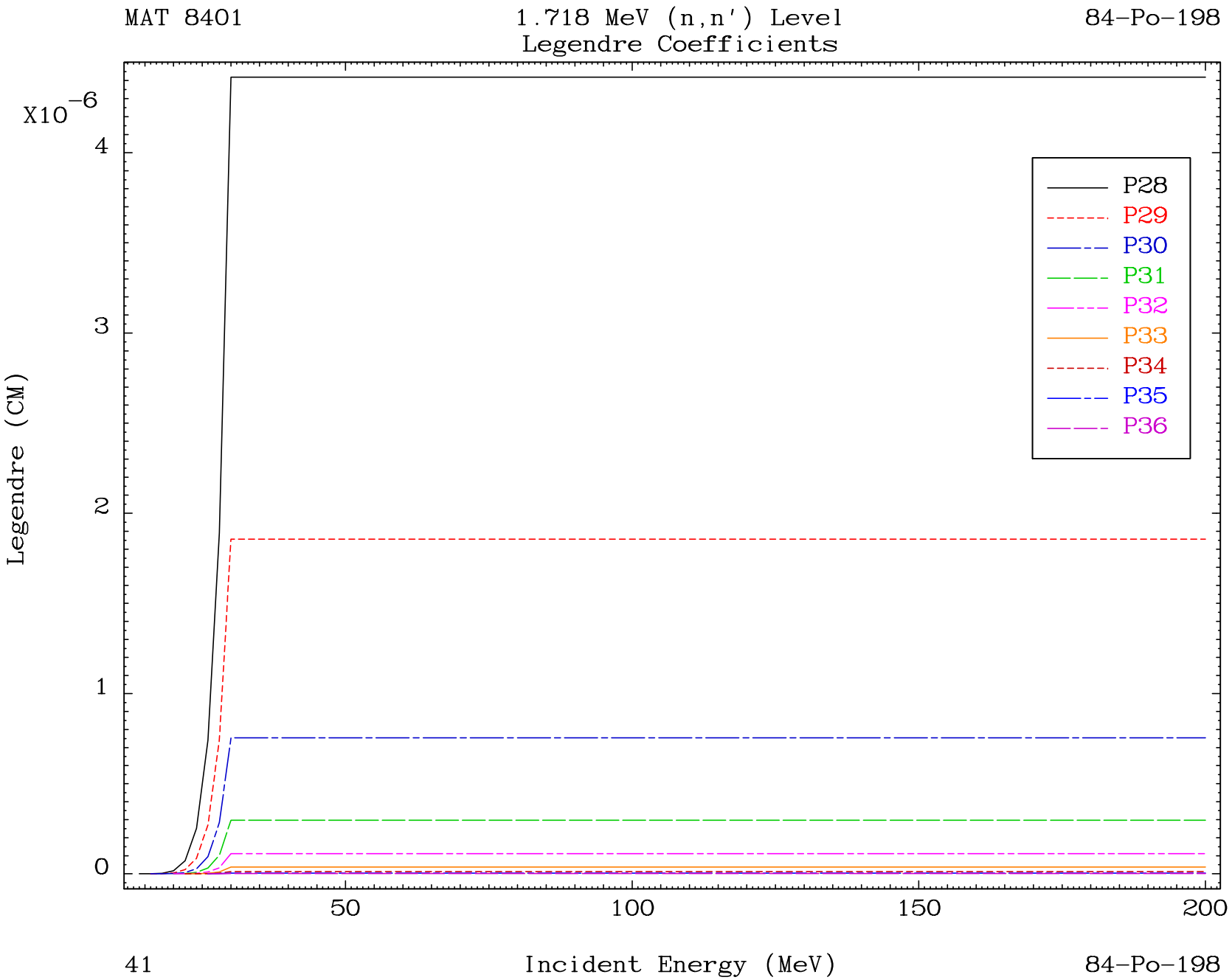

MAT 8401
1.483 MeV (n,n') Level
Legendre Coefficients
84-Po-198
X10 -3
2.5
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
50
100
150
200
36
Incident Energy (MeV)
84-Po-198

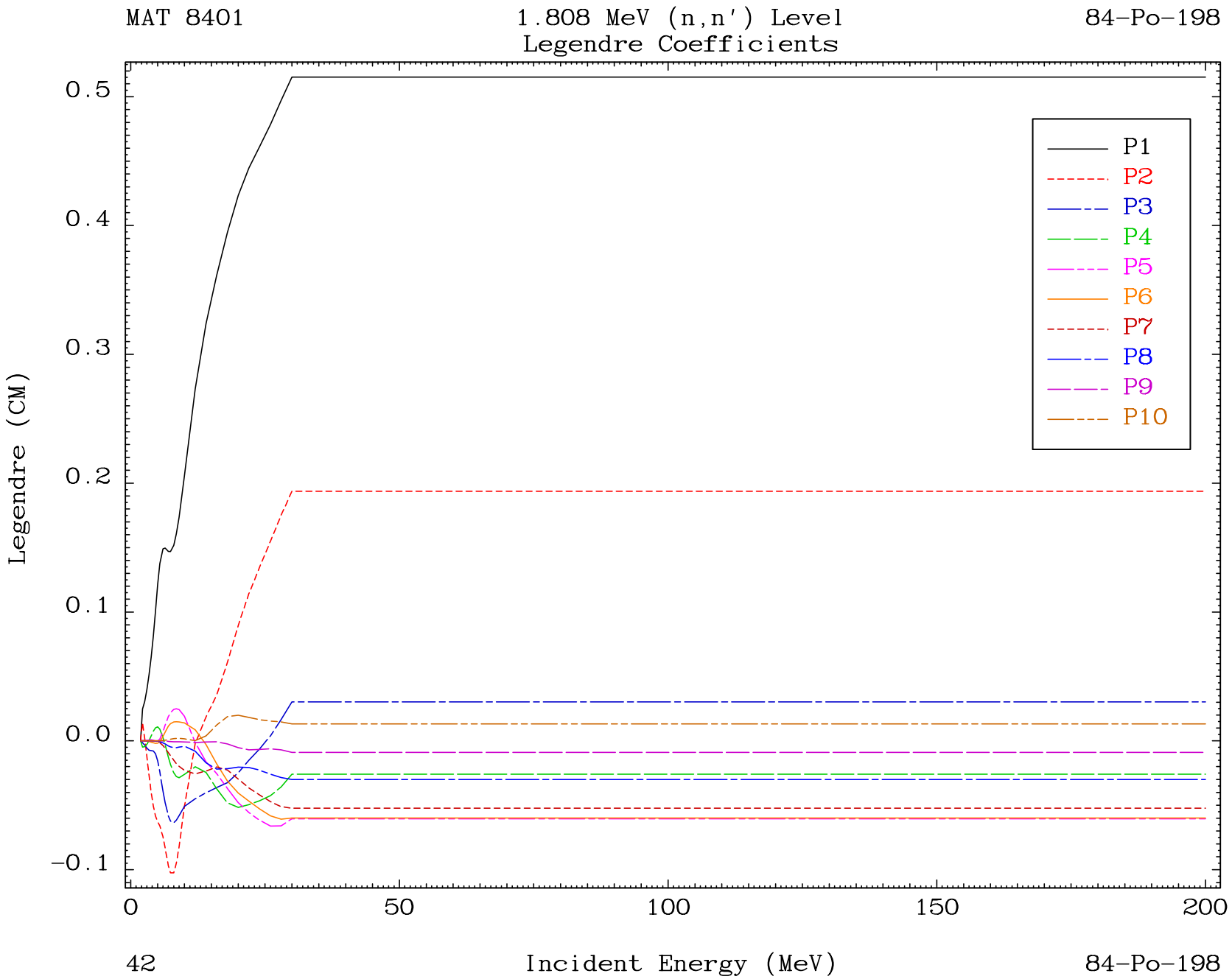

MAT 8401
1.483 MeV (n,n') Level
Legendre Coefficients
84-Po-198
X10 −6
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
P31
P32
P33
P34
P35
P36
P37
P38
50
100
150
200
37
Incident Energy (MeV)
84-Po-198

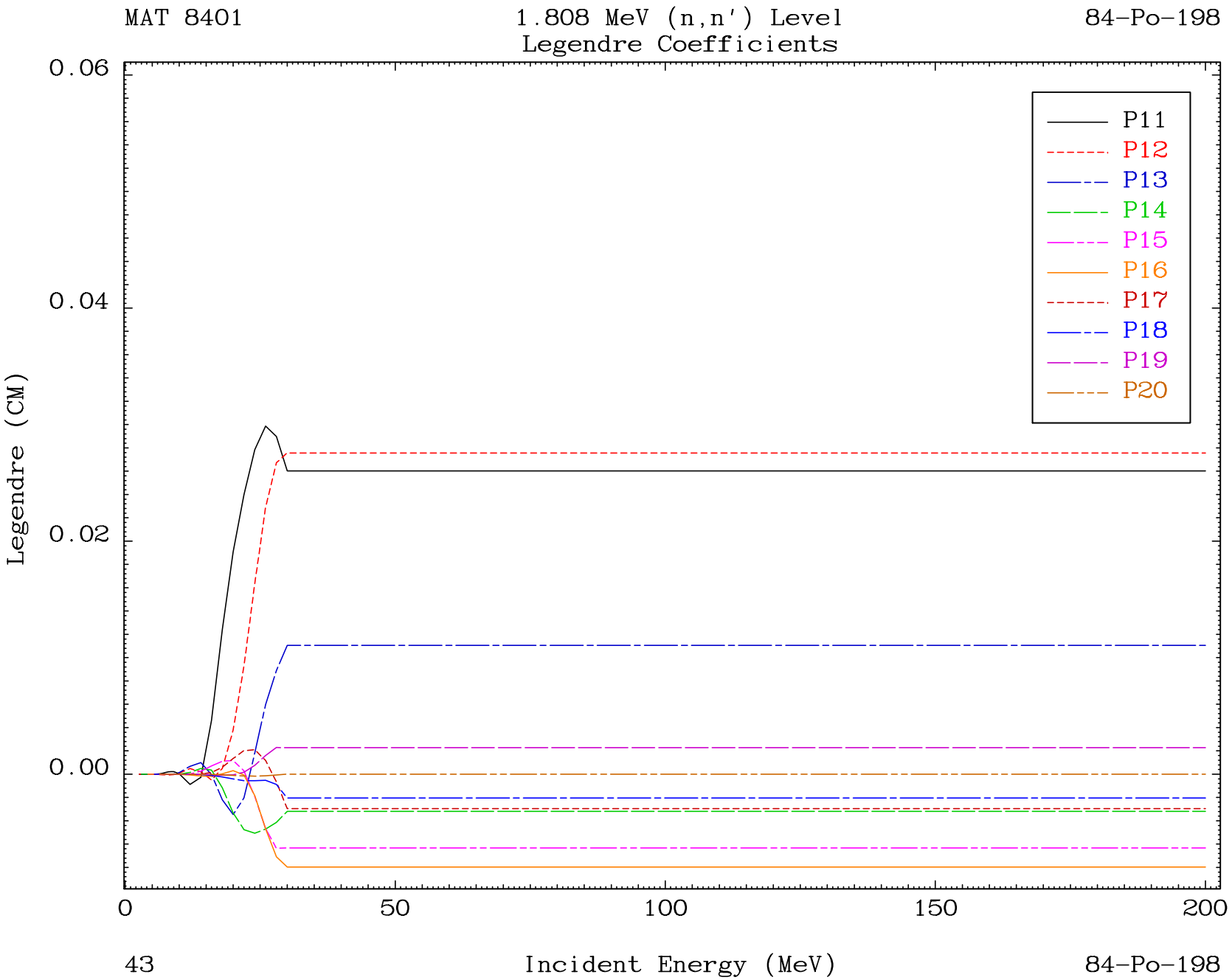

MAT 8401
1.718 MeV (n,n') Level
Legendre Coefficients
84-Po-198
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
38
Incident Energy (MeV)
84-Po-198

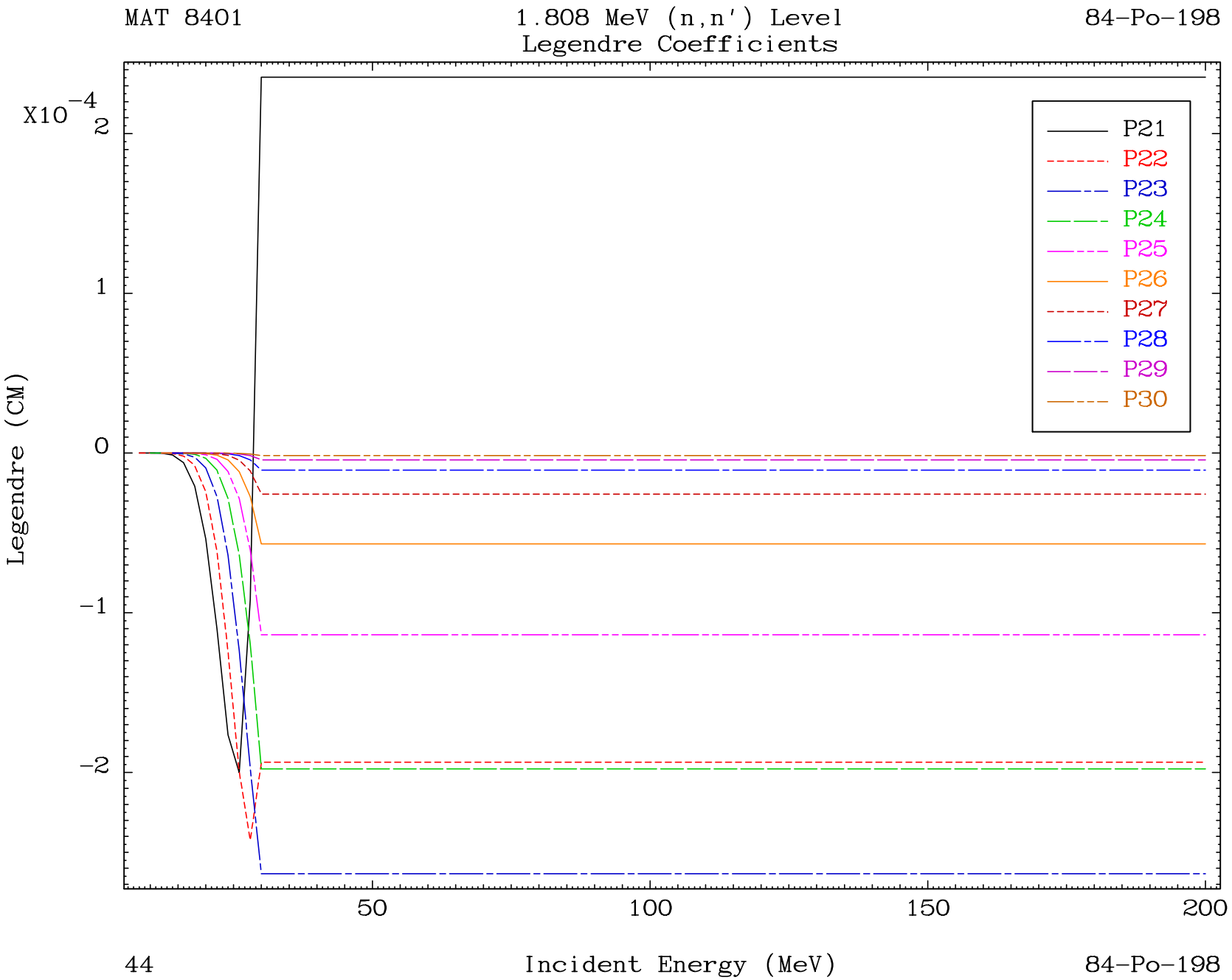

MAT 8401
1.718 MeV (n,n') Level
Legendre Coefficients
84-Po-198
0.06
0.04
0.02
0.00
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
39
Incident Energy (MeV)
84-Po-198

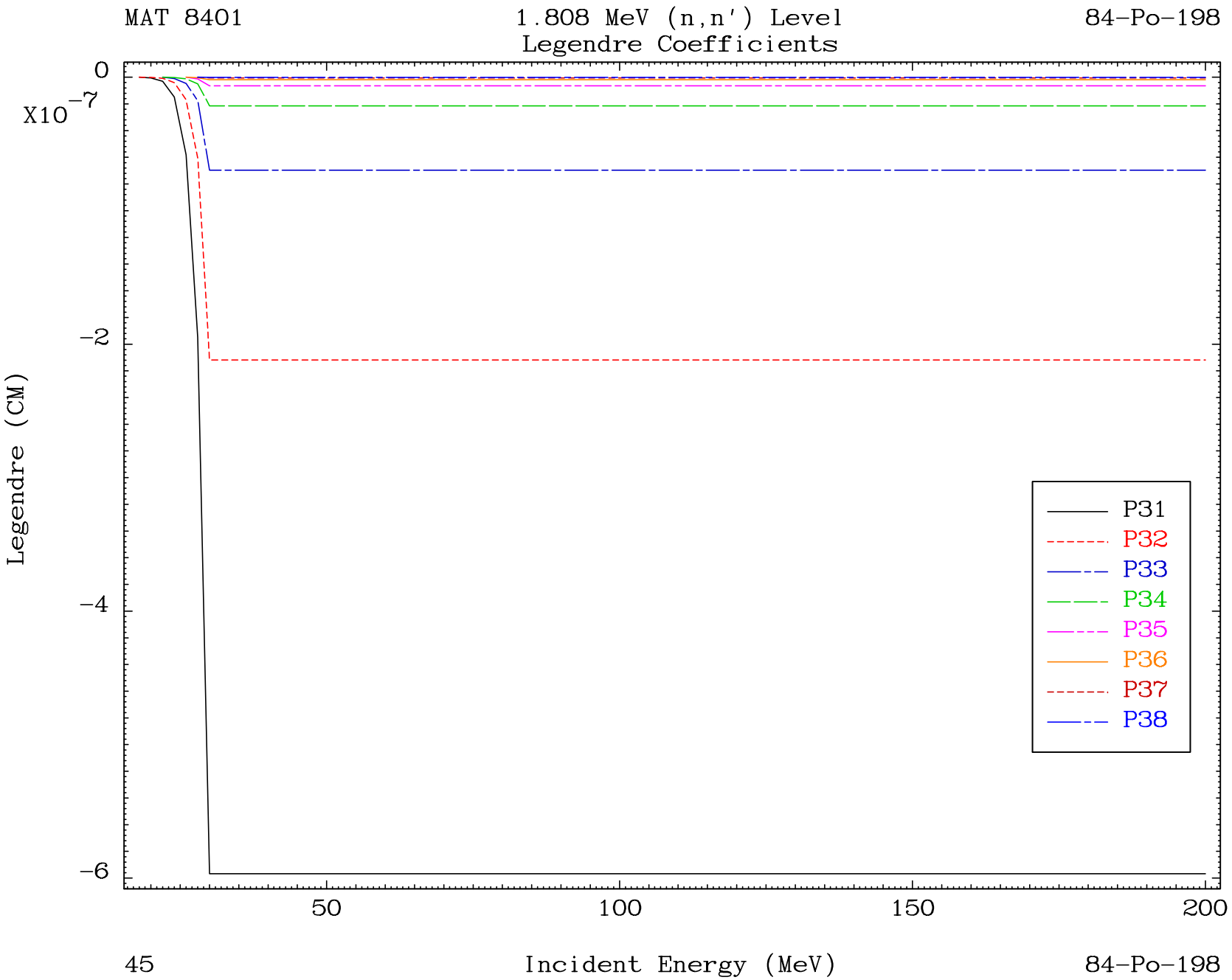

MAT 8401
1.718 MeV (n,n') Level
Legendre Coefficients
84-Po-198
X10-3
2.0
1.5
1.0
0.5
0.0
-0.5
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
40
50
100
150
200
Incident Energy (MeV)
84-Po-198

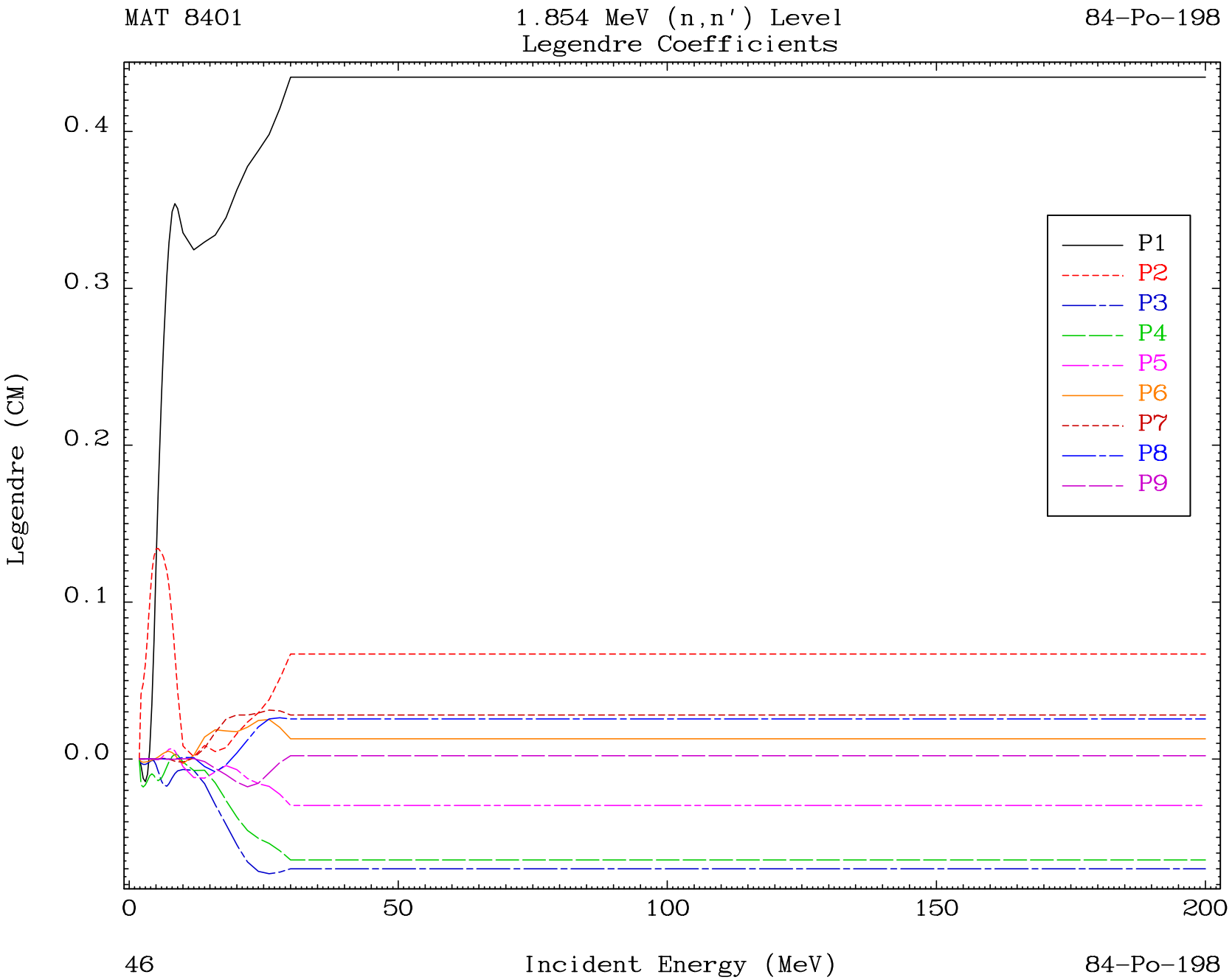

MAT 8401
1.718 MeV (n,n') Level
Legendre Coefficients
84-Po-198
X10 -6
4
3
2
1
0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
P35
P36
50
100
150
200
41
Incident Energy (MeV)
84-Po-198

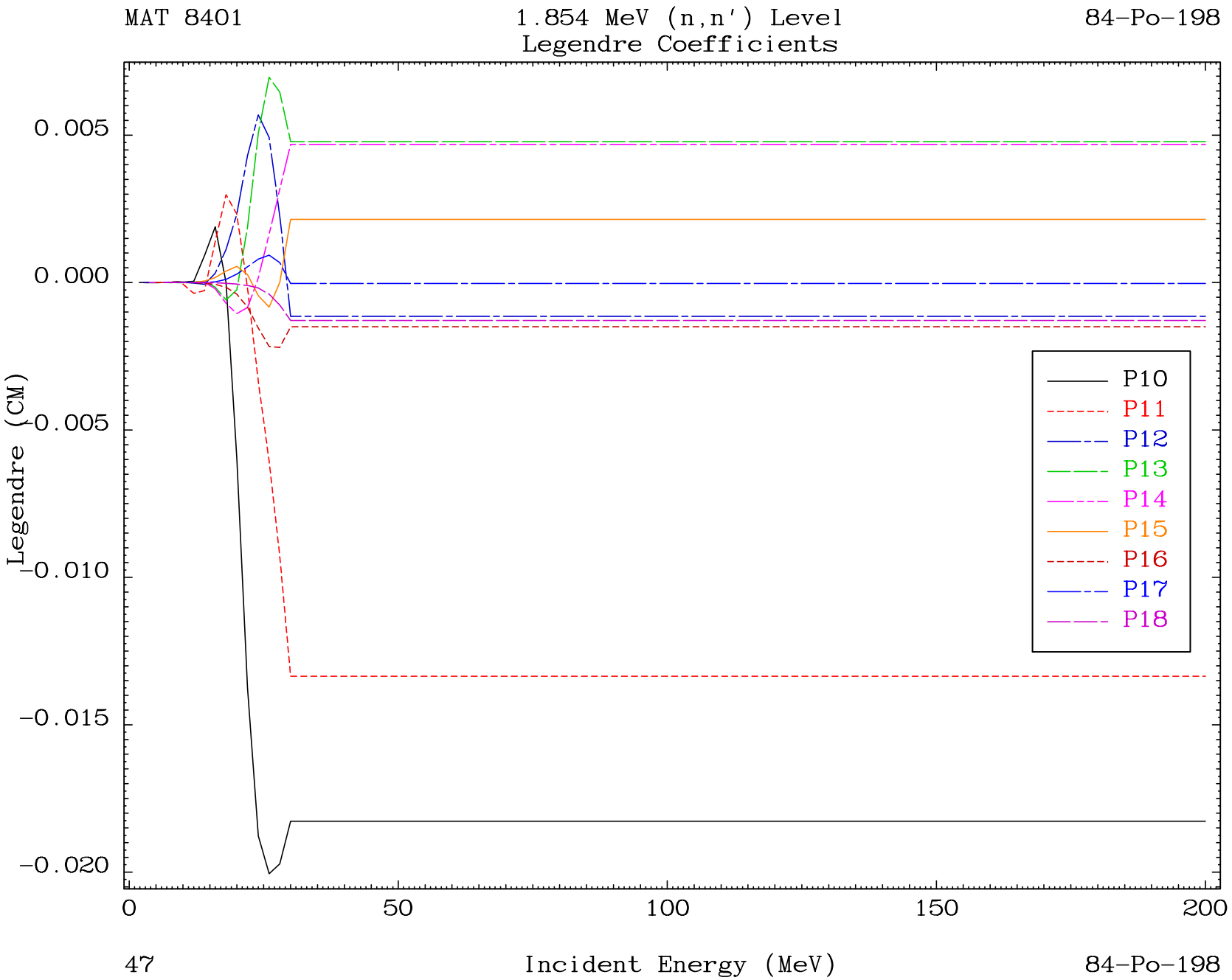

MAT 8401
1.808 MeV (n,n') Level
Legendre Coefficients
84-Po-198
Legendre (CM)
0.5
0.4
0.3
0.2
0.1
0.0
-0.1
0
50
100
150
200
Incident Energy (MeV)
42
84-Po-198
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10

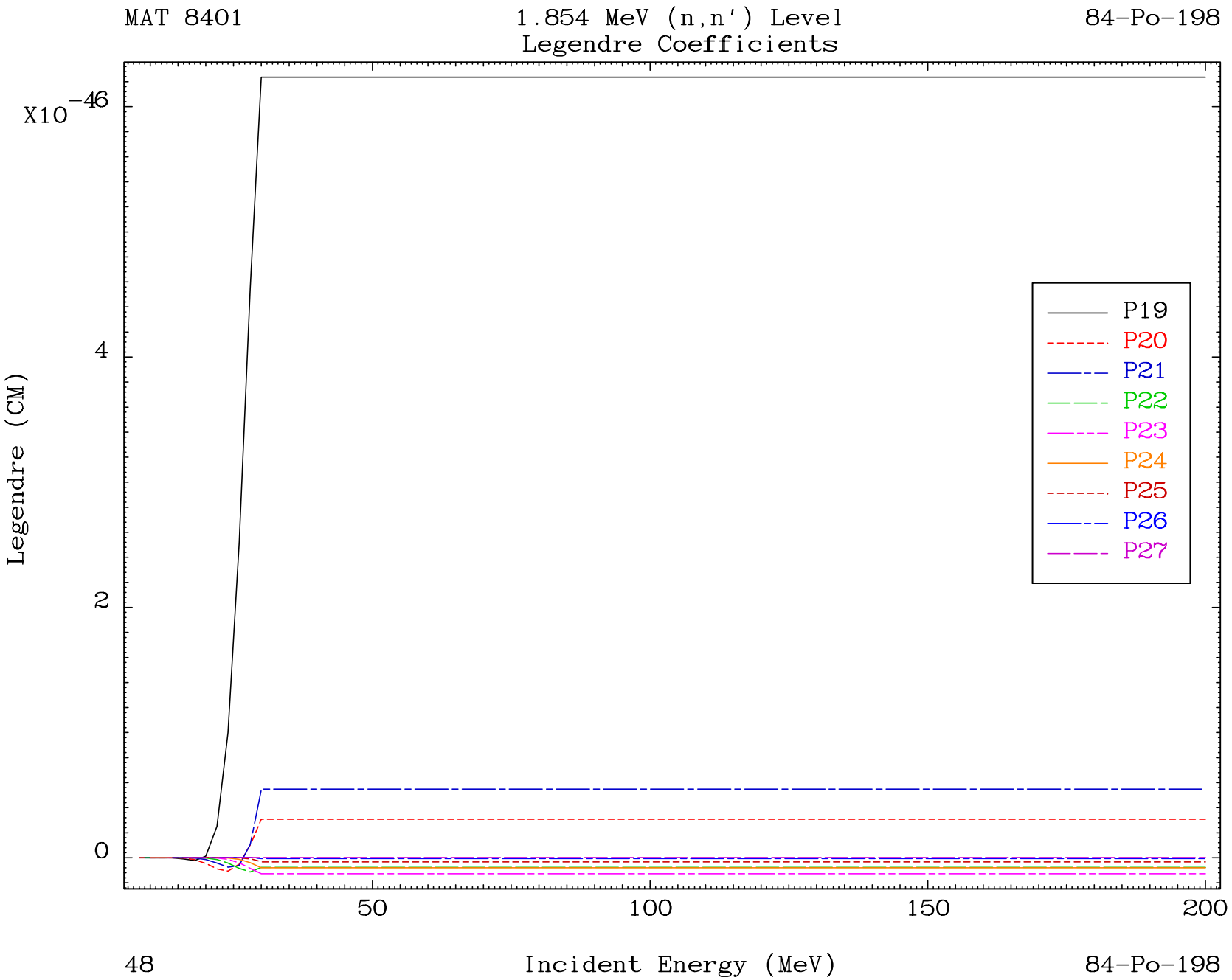

MAT 8401
1.808 MeV (n,n') Level
Legendre Coefficients
84-Po-198
0.06
0.04
0.02
0.00
Legendre (CM)
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0
50
100
150
200
43
Incident Energy (MeV)
84-Po-198

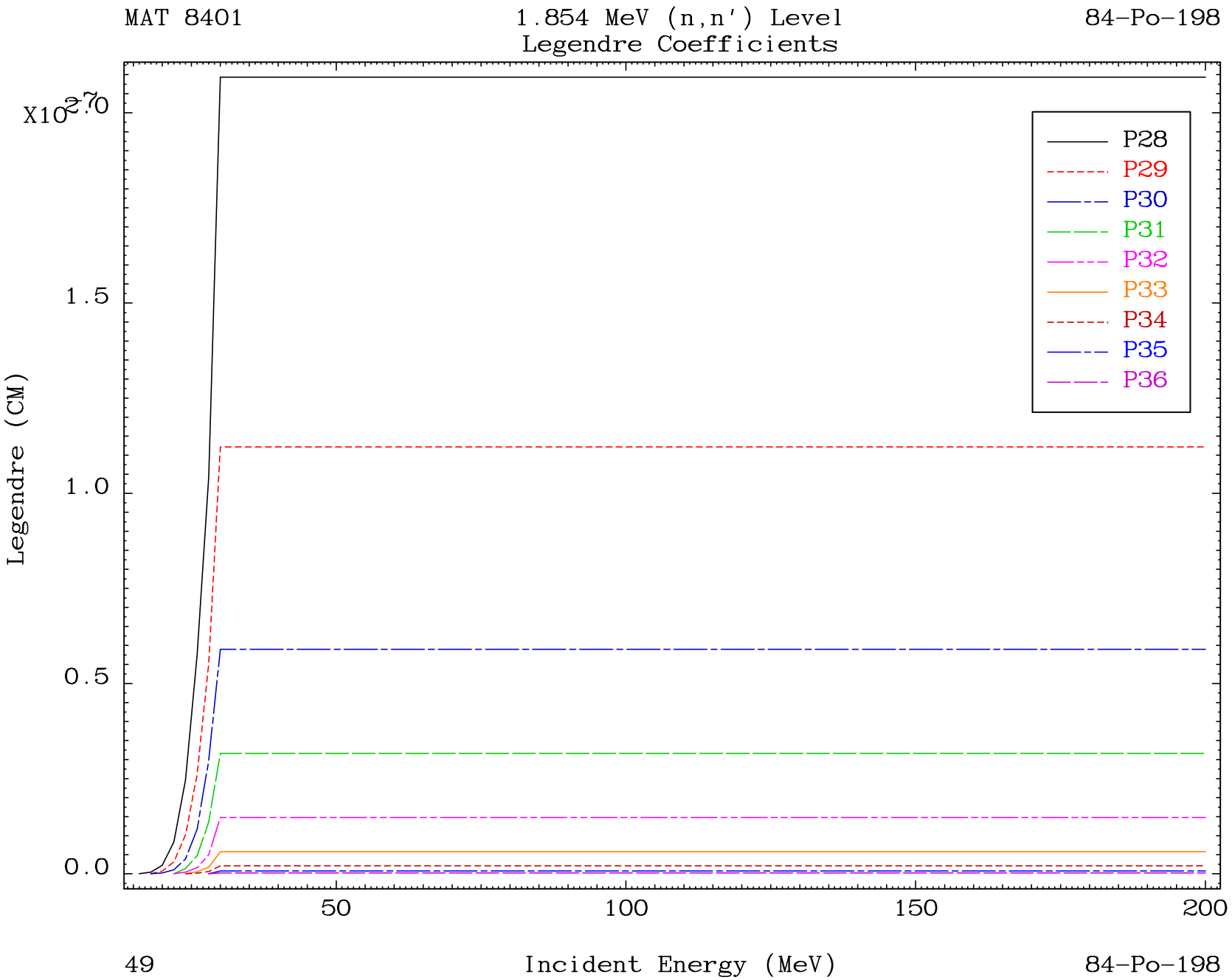

MAT 8401
1.808 MeV (n,n') Level
Legendre Coefficients
84-Po-198
X10 -4
2
1
0
-1
-2
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
50
100
150
200
44
Incident Energy (MeV)
84-Po-198

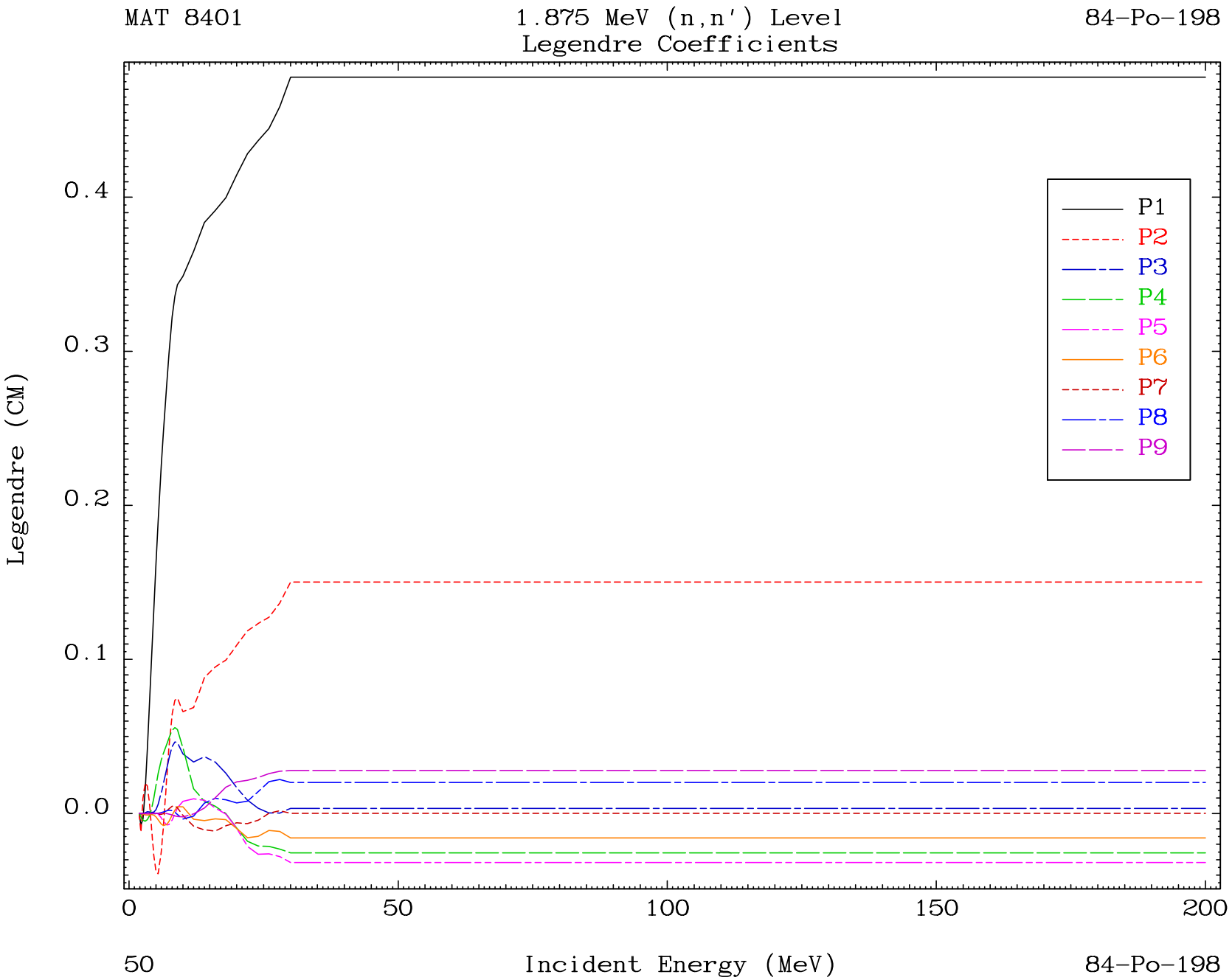

MAT 8401
1.808 MeV (n,n') Level
Legendre Coefficients
84-Po-198
0
X10-7
-2
-4
-6
Legendre (CM)
50
100
150
200
45
Incident Energy (MeV)
84-Po-198
P31
P32
P33
P34
P35
P36
P37
P38

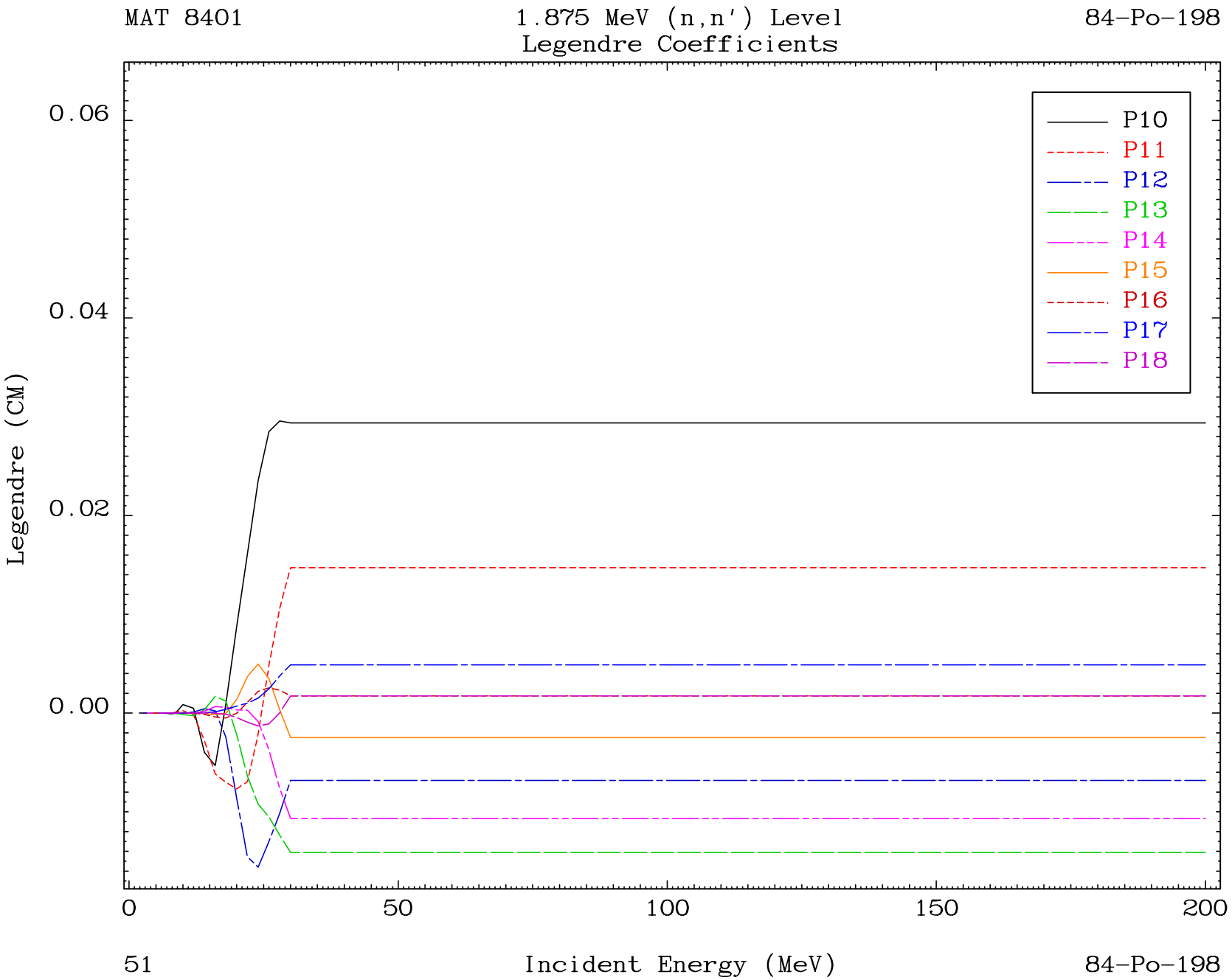

MAT 8401
1.854 MeV (n,n') Level
Legendre Coefficients
84-Po-198
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
46
Incident Energy (MeV)
84-Po-198

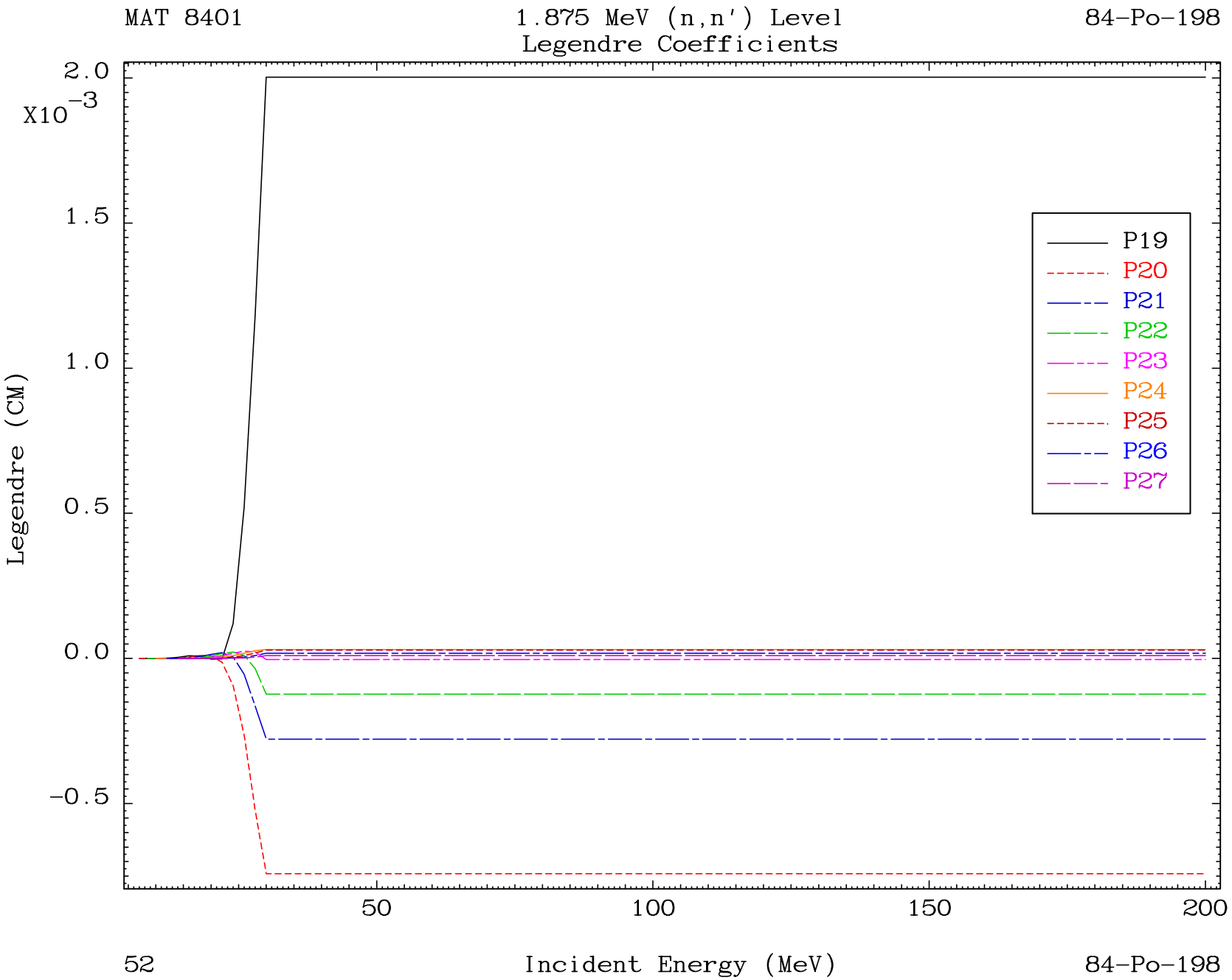

MAT 8401
1.854 MeV (n,n') Level
Legendre Coefficients
84-Po-198
0.005
0.000
-0.005
-0.010
-0.015
-0.020
Legendre (CM)
0
50
100
150
200
47
Incident Energy (MeV)
84-Po-198
P10
P11
P12
P13
P14
P15
P16
P17
P18

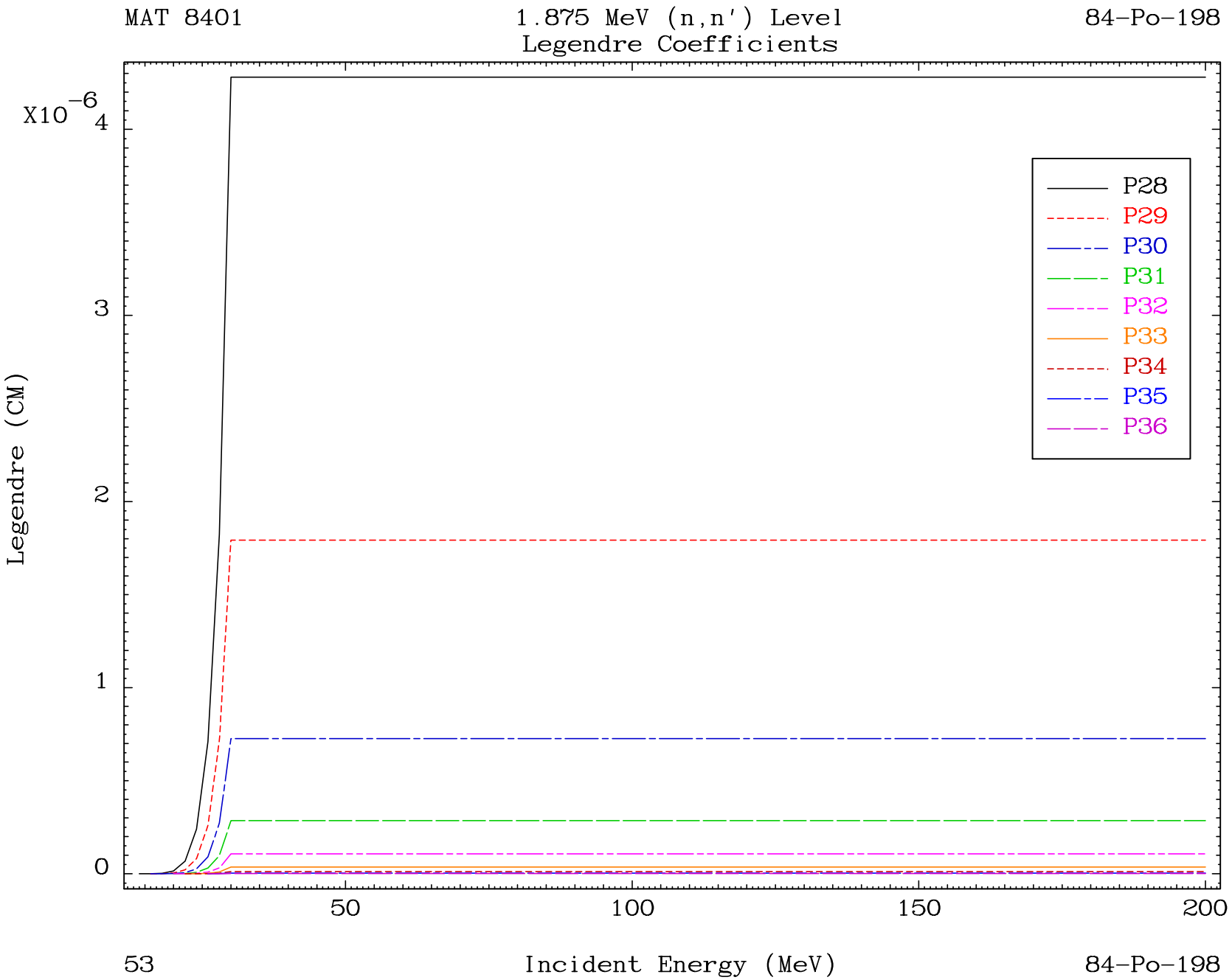

MAT 8401
1.854 MeV (n,n') Level
Legendre Coefficients
84-Po-198
X10 -46
4
2
0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
48
Incident Energy (MeV)
84-Po-198

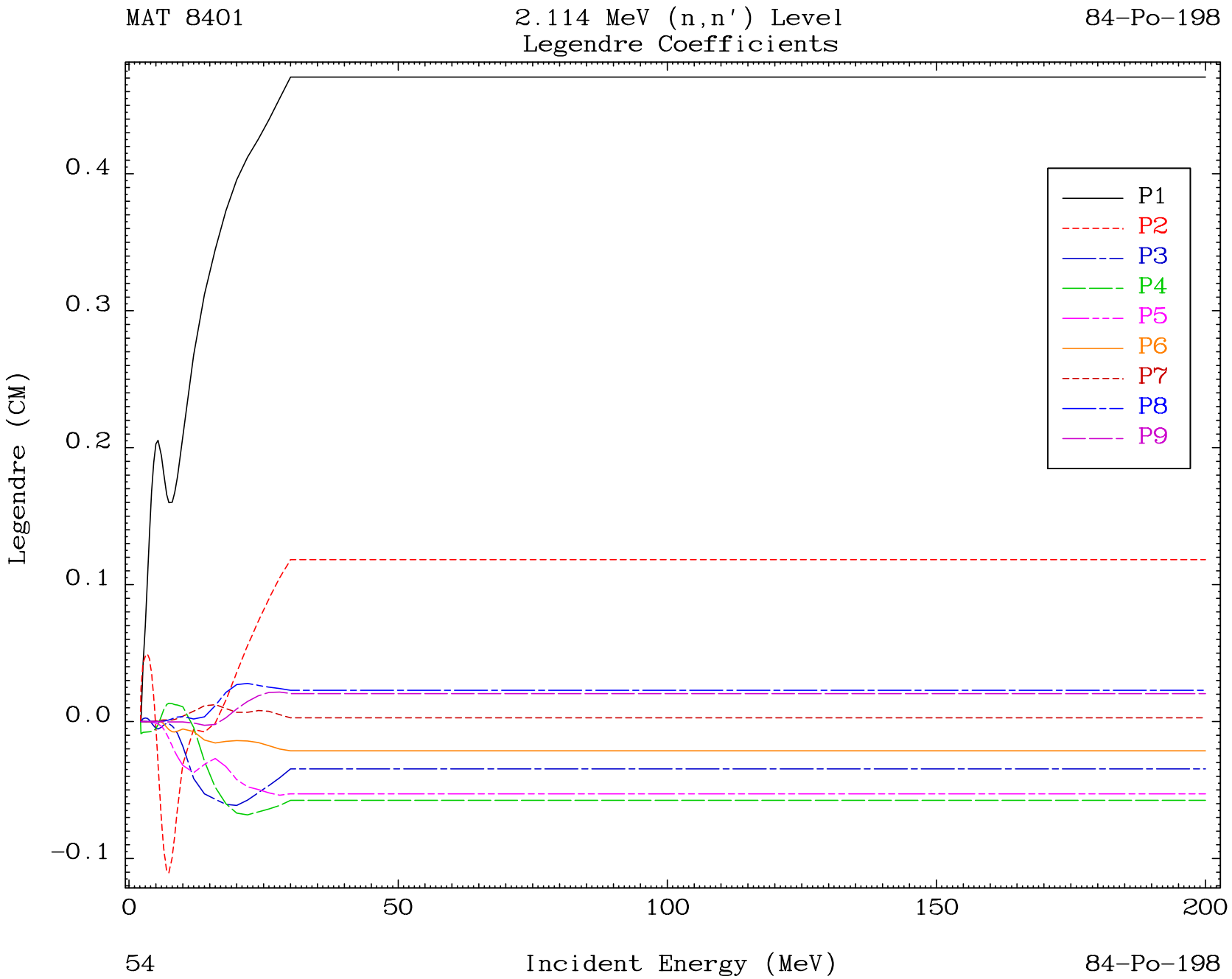

MAT 8401
1.854 MeV (n,n') Level
Legendre Coefficients
84-Po-198
X10-7
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
50
100
150
200
Incident Energy (MeV)
49
84-Po-198
P28
P29
P30
P31
P32
P33
P34
P35
P36

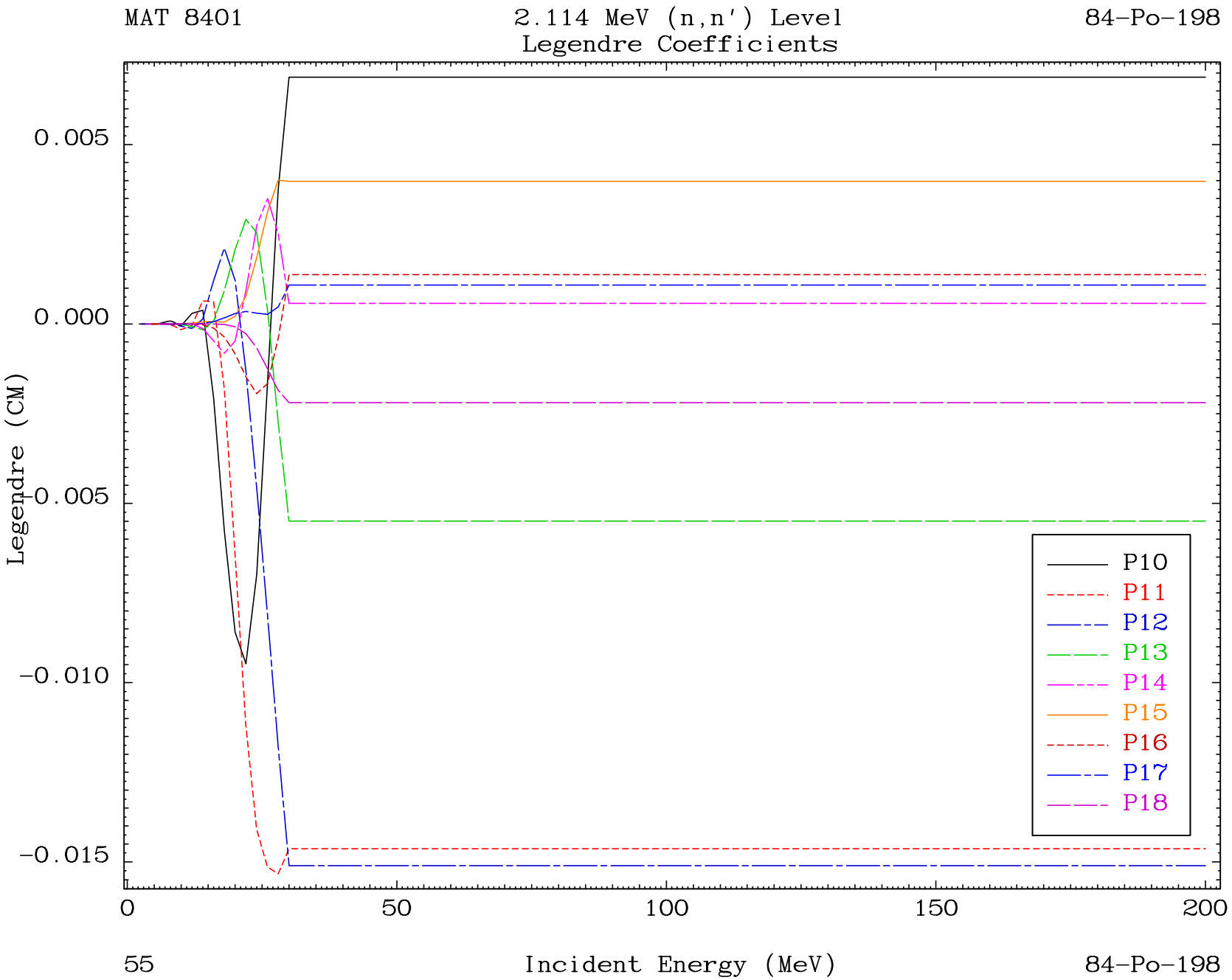

MAT 8401
1.875 MeV (n,n') Level
Legendre Coefficients
84-Po-198
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
50
Incident Energy (MeV)
84-Po-198

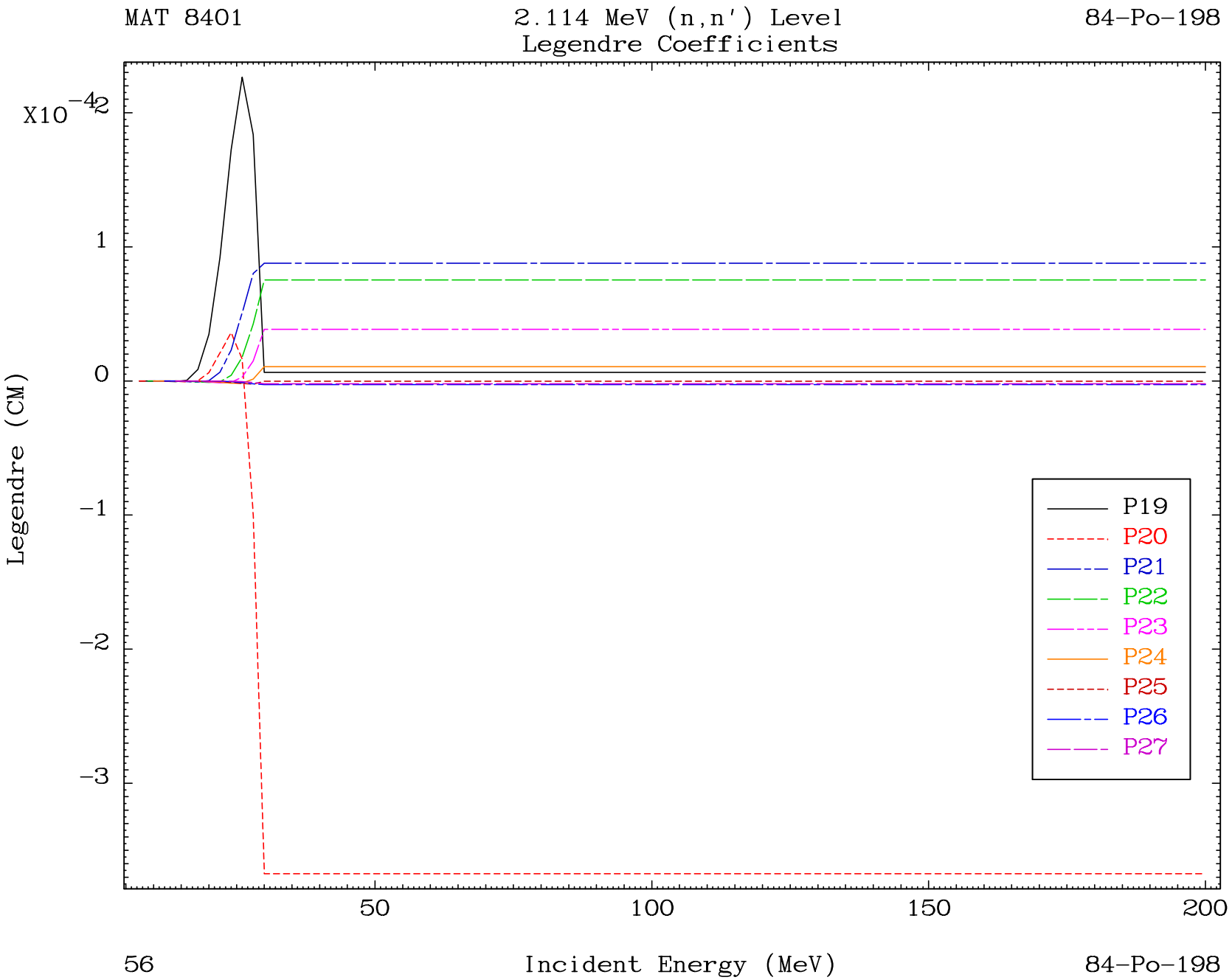

MAT 8401
1.875 MeV (n,n') Level
Legendre Coefficients
84-Po-198
0.06
0.04
0.02
0.00
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
51
Incident Energy (MeV)
84-Po-198

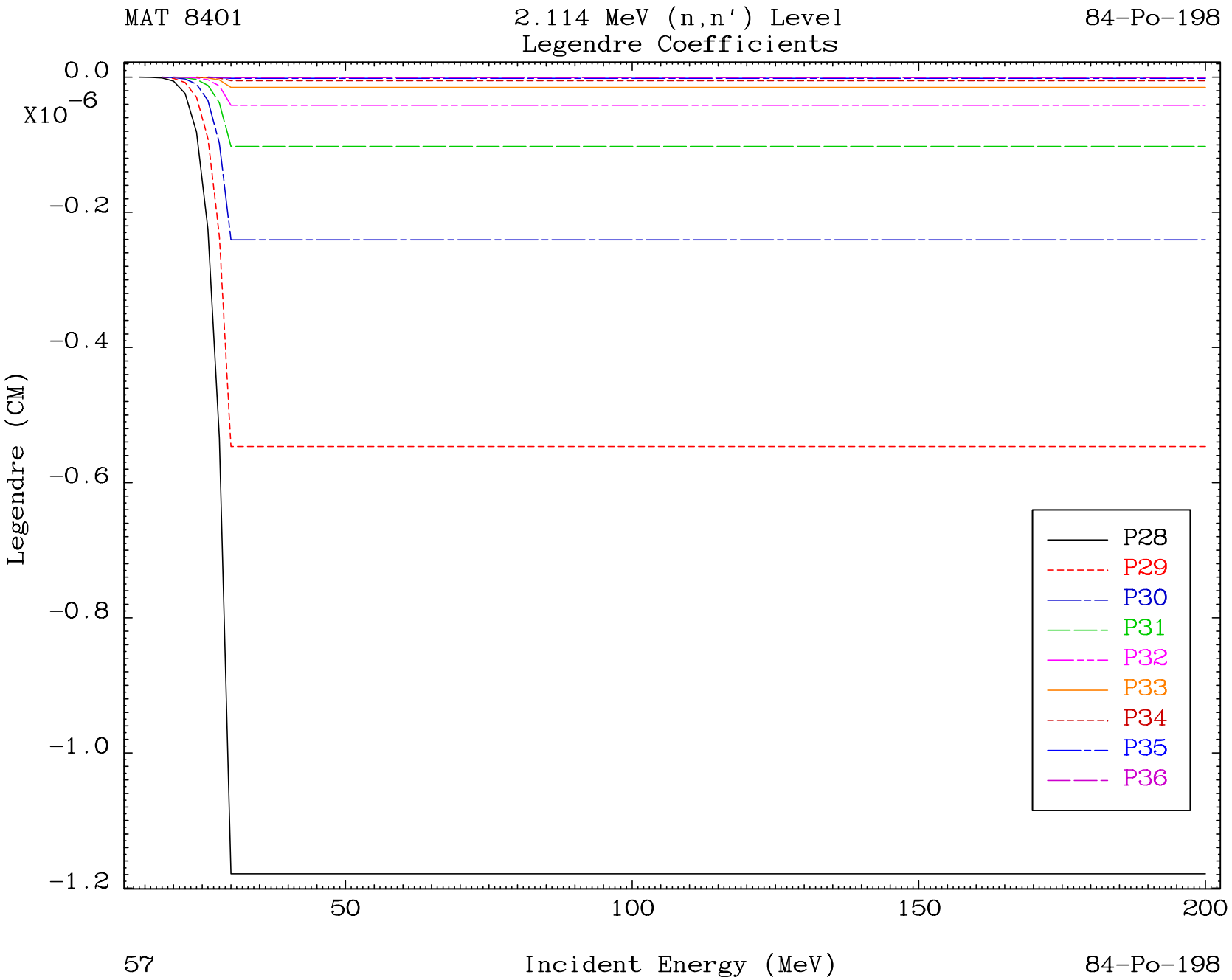

MAT 8401
1.875 MeV (n,n') Level
Legendre Coefficients
84-Po-198
X10^-3
2.0
1.5
1.0
0.5
0.0
-0.5
Legendre (CM)
50
100
150
200
Incident Energy (MeV)
52
84-Po-198
P19
P20
P21
P22
P23
P24
P25
P26
P27

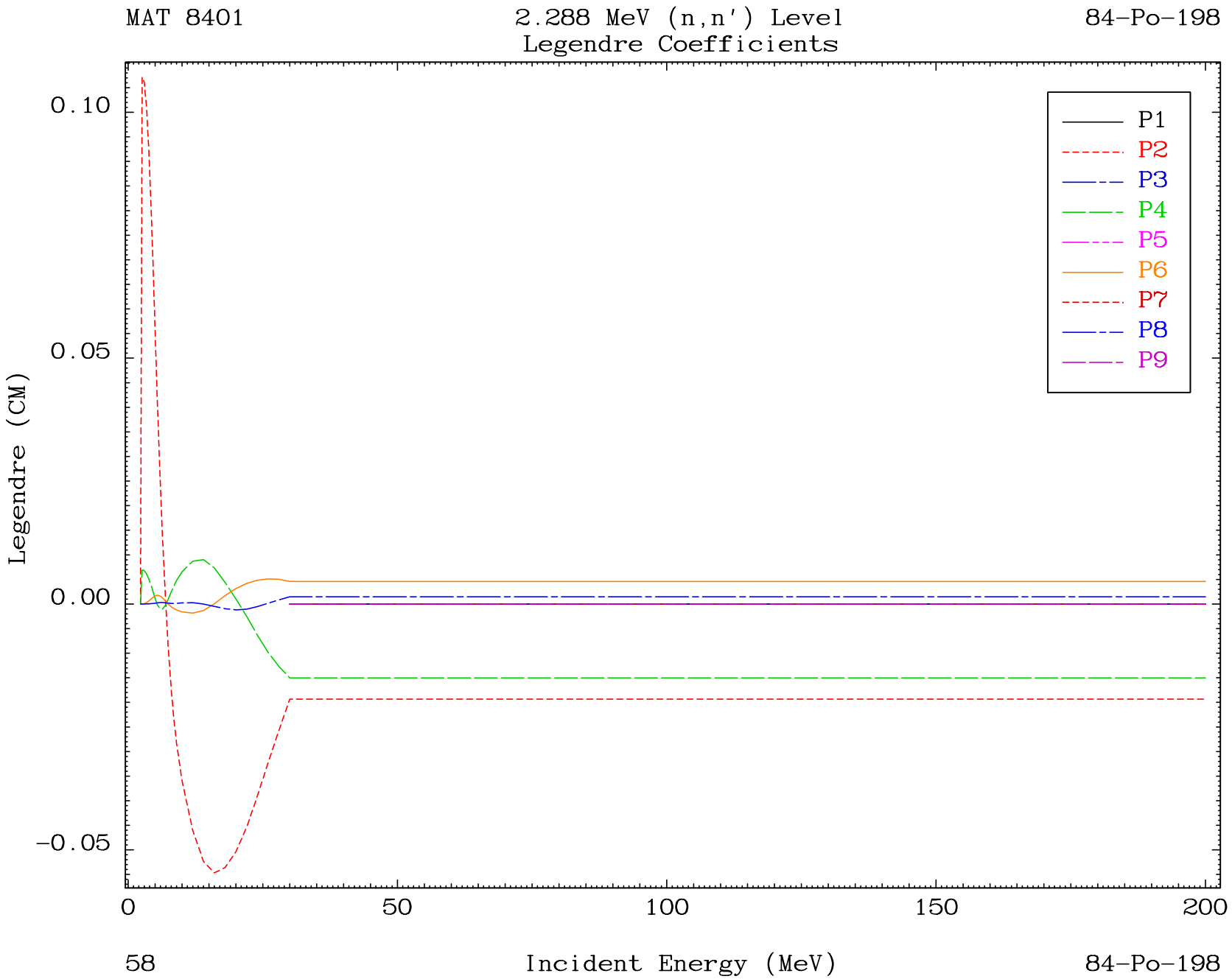

MAT 8401
1.875 MeV (n,n') Level
Legendre Coefficients
84-Po-198
X10 -6
4
3
2
1
0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
P35
P36
50
100
150
200
53
Incident Energy (MeV)
84-Po-198

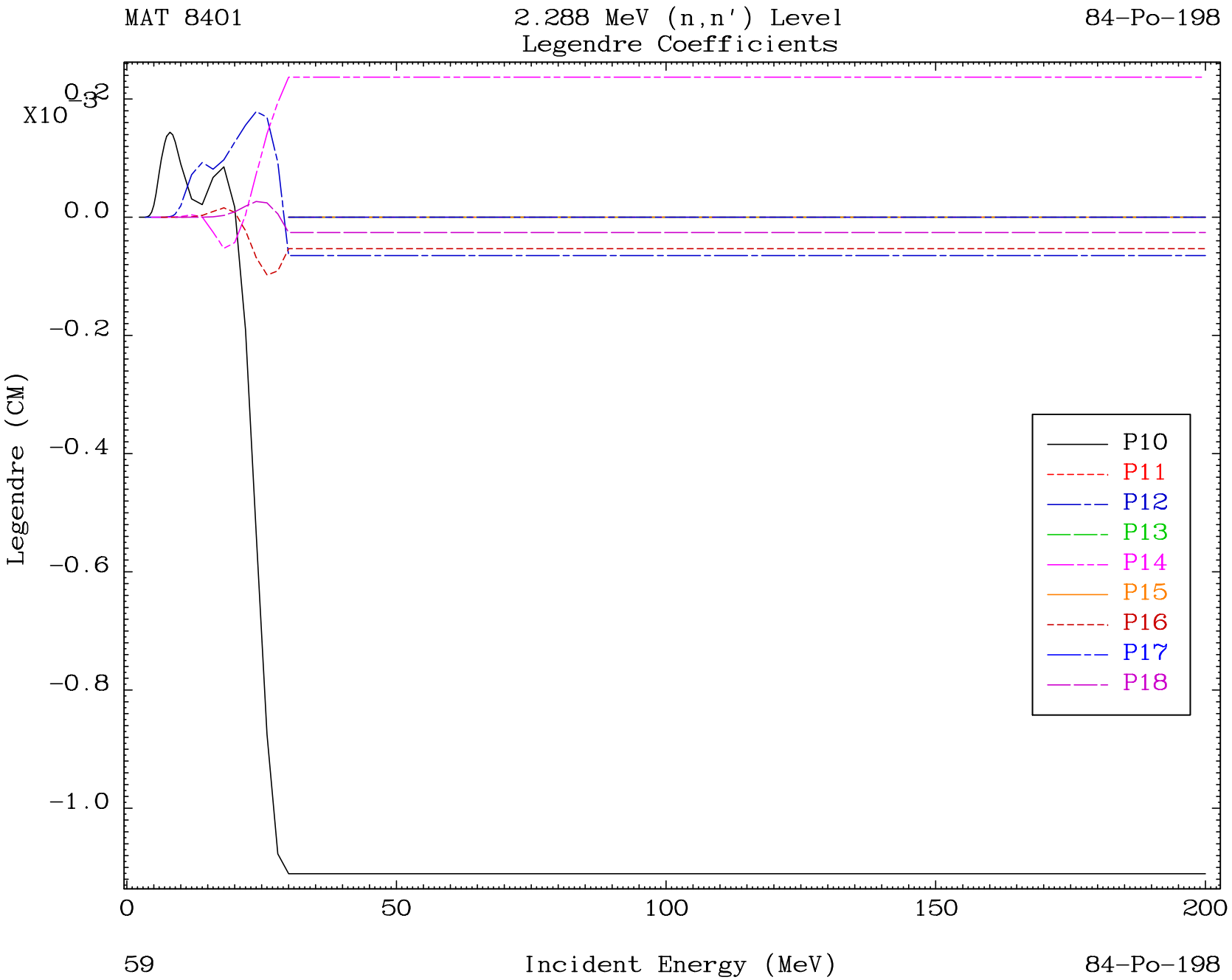

MAT 8401
2.114 MeV (n,n') Level
Legendre Coefficients
84-Po-198
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
-0.1
0
50
100
150
200
54
Incident Energy (MeV)
84-Po-198
P1
P2
P3
P4
P5
P6
P7
P8
P9

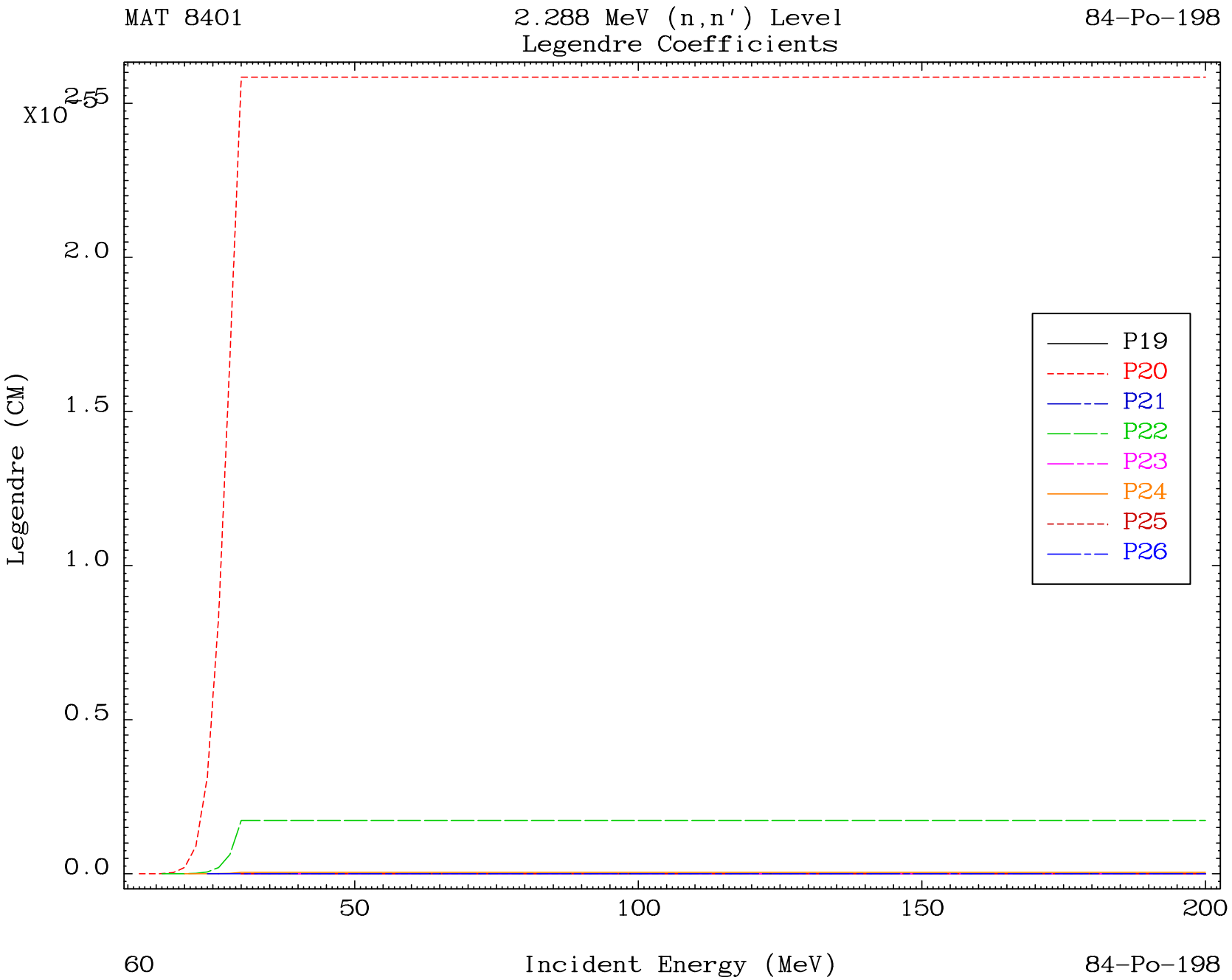

MAT 8401
2.114 MeV (n,n') Level
Legendre Coefficients
84-Po-198
0.005
0.000
-0.005
-0.010
-0.015
Legendre (CM)
0
50
100
150
200
55
Incident Energy (MeV)
84-Po-198
P10
P11
P12
P13
P14
P15
P16
P17
P18

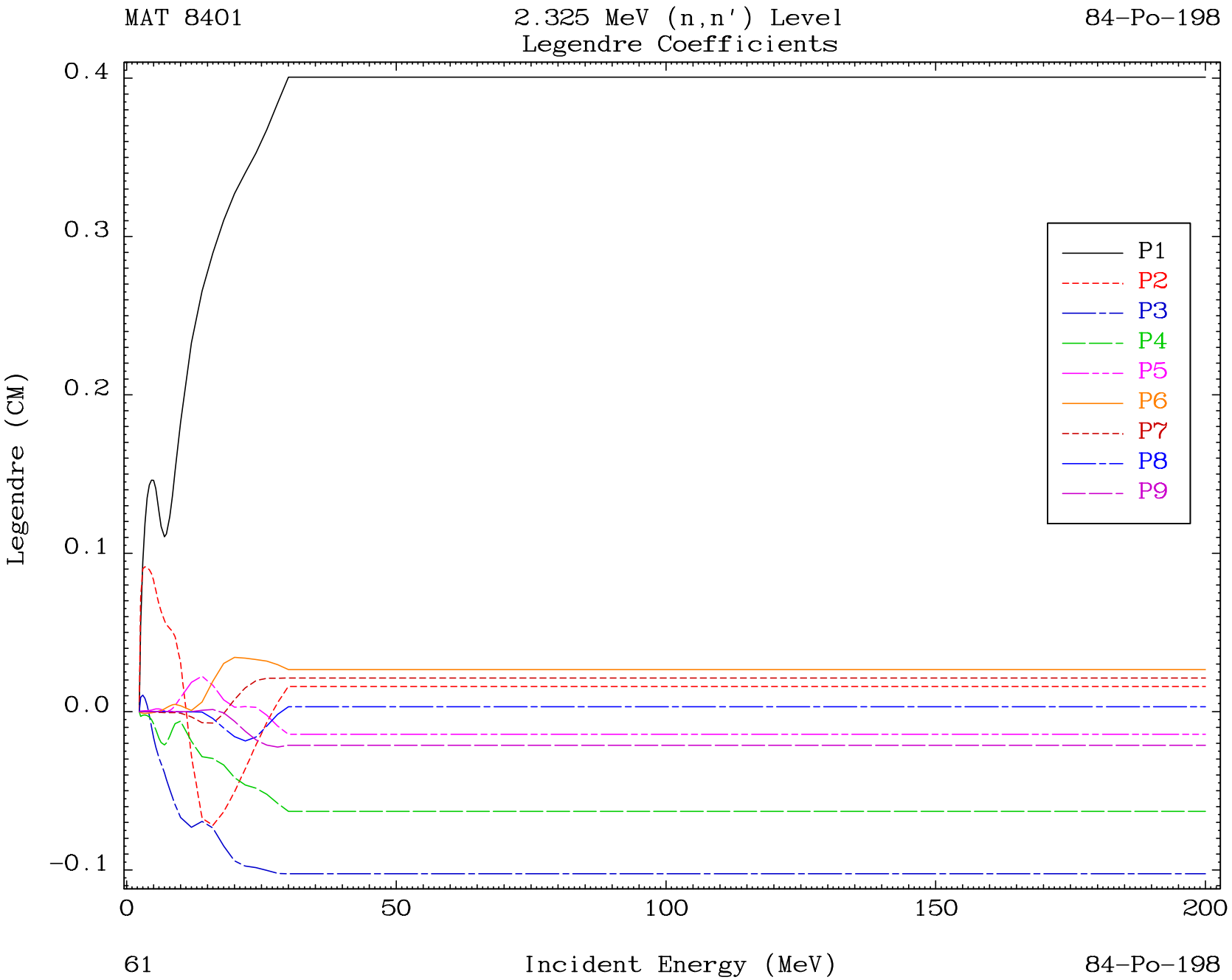

MAT 8401
2.114 MeV (n,n') Level
Legendre Coefficients
84-Po-198
X10^-4
2
1
0
-1
-2
-3
Legendre (CM)
50
100
150
200
56
Incident Energy (MeV)
84-Po-198
P19
P20
P21
P22
P23
P24
P25
P26
P27

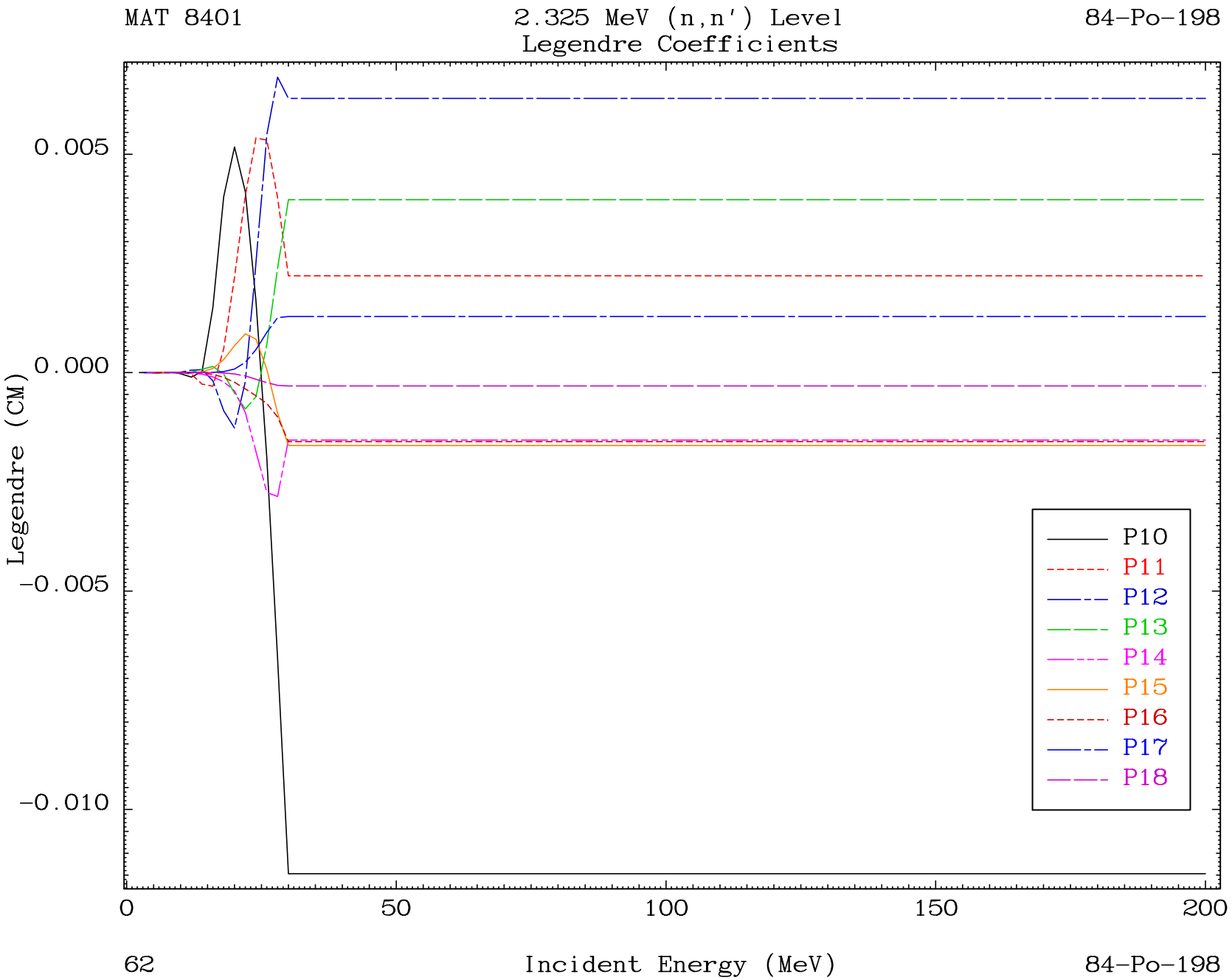

MAT 8401
2.114 MeV (n,n') Level
Legendre Coefficients
84-Po-198
0.0
X10^-6
-0.2
-0.4
-0.6
-0.8
-1.0
-1.2
Legendre (CM)
50
100
150
200
57
Incident Energy (MeV)
84-Po-198
P28
P29
P30
P31
P32
P33
P34
P35
P36

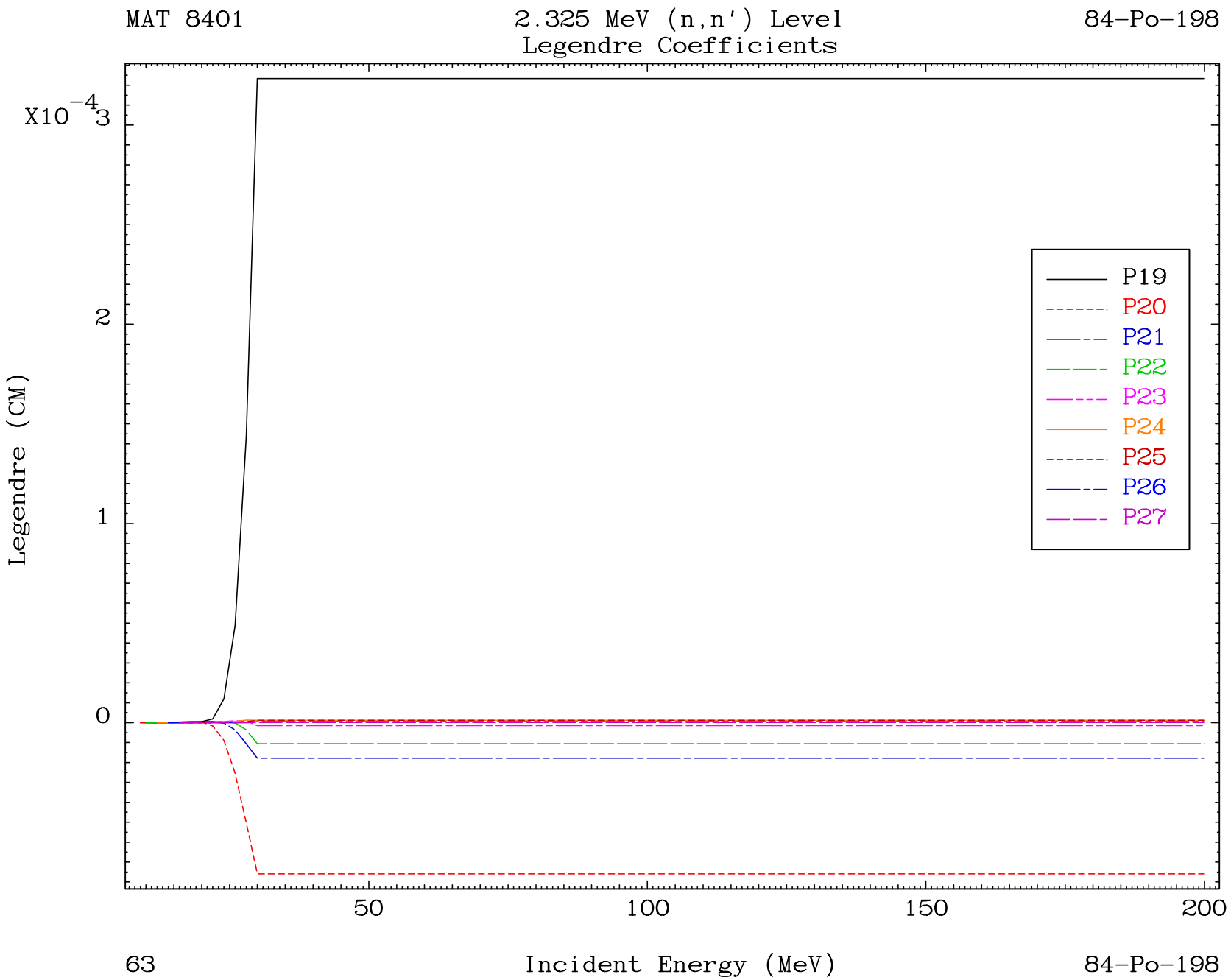

MAT 8401
2.288 MeV (n,n') Level
Legendre Coefficients
84-Po-198
0.10
0.05
0.00
-0.05
Legendre (CM)
0
50
100
150
200
58
Incident Energy (MeV)
84-Po-198
P1
P2
P3
P4
P5
P6
P7
P8
P9

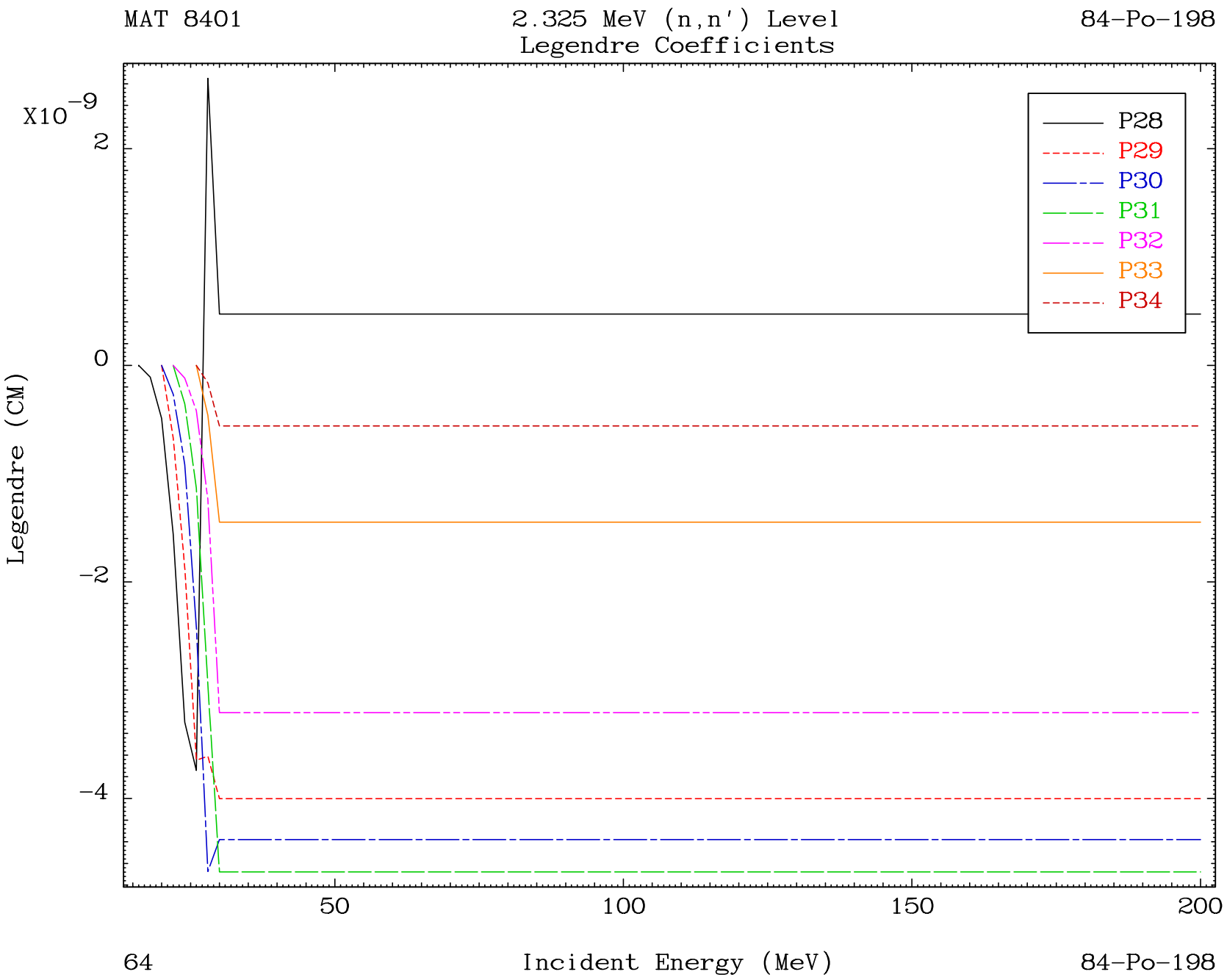

MAT 8401
2.288 MeV (n,n') Level
Legendre Coefficients
84-Po-198
X10-2
0.2
0.0
-0.2
-0.4
-0.6
-0.8
-1.0
Legendre (CM)
0
50
100
150
200
59
Incident Energy (MeV)
84-Po-198
P10
P11
P12
P13
P14
P15
P16
P17
P18

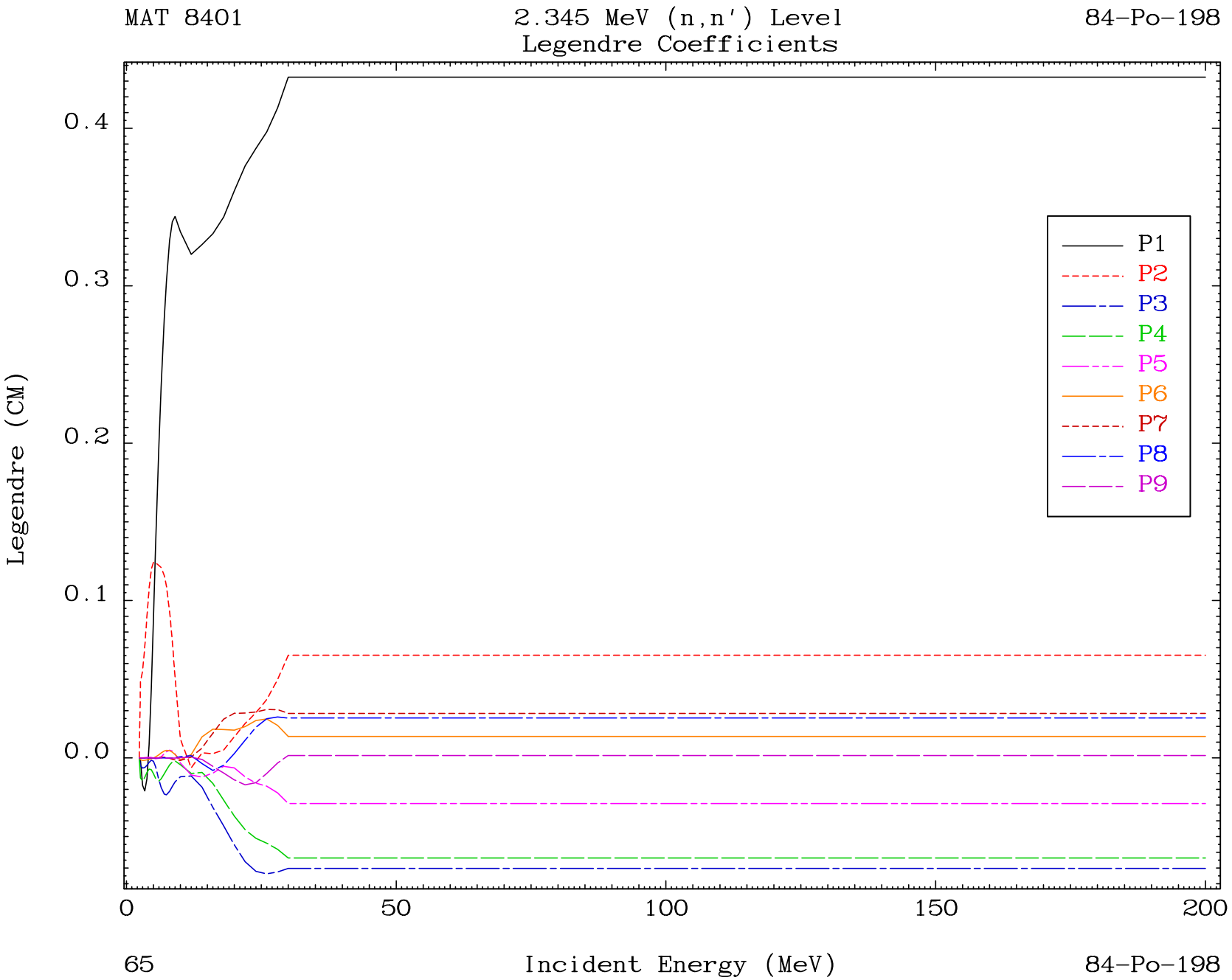

MAT 8401
2.288 MeV (n,n') Level
Legendre Coefficients
84-Po-198
X10^25
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
50
100
150
200
60
Incident Energy (MeV)
84-Po-198

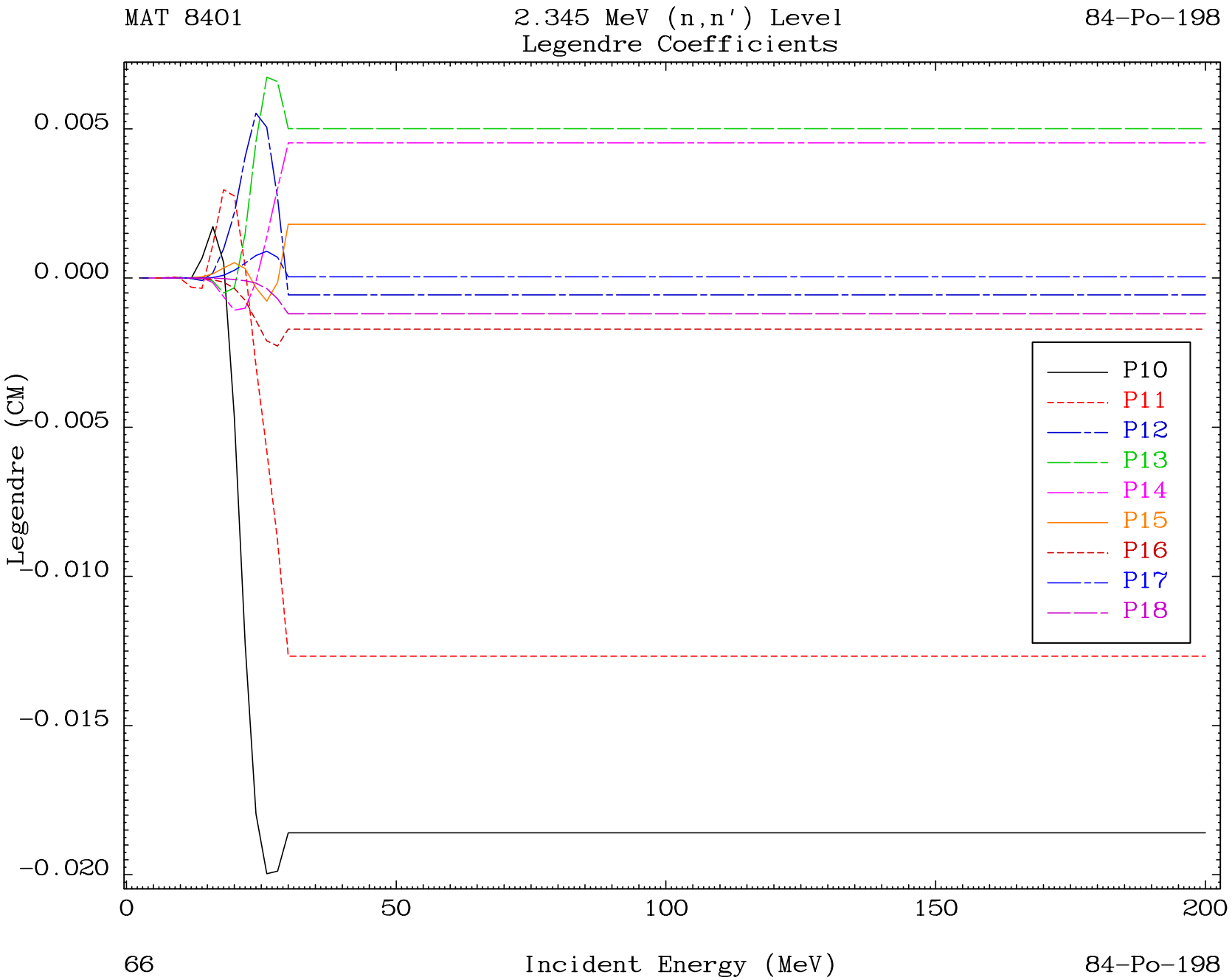

MAT 8401
2.325 MeV (n,n') Level
Legendre Coefficients
84-Po-198
0.4
0.3
0.2
0.1
0.0
-0.1
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
61
Incident Energy (MeV)
84-Po-198

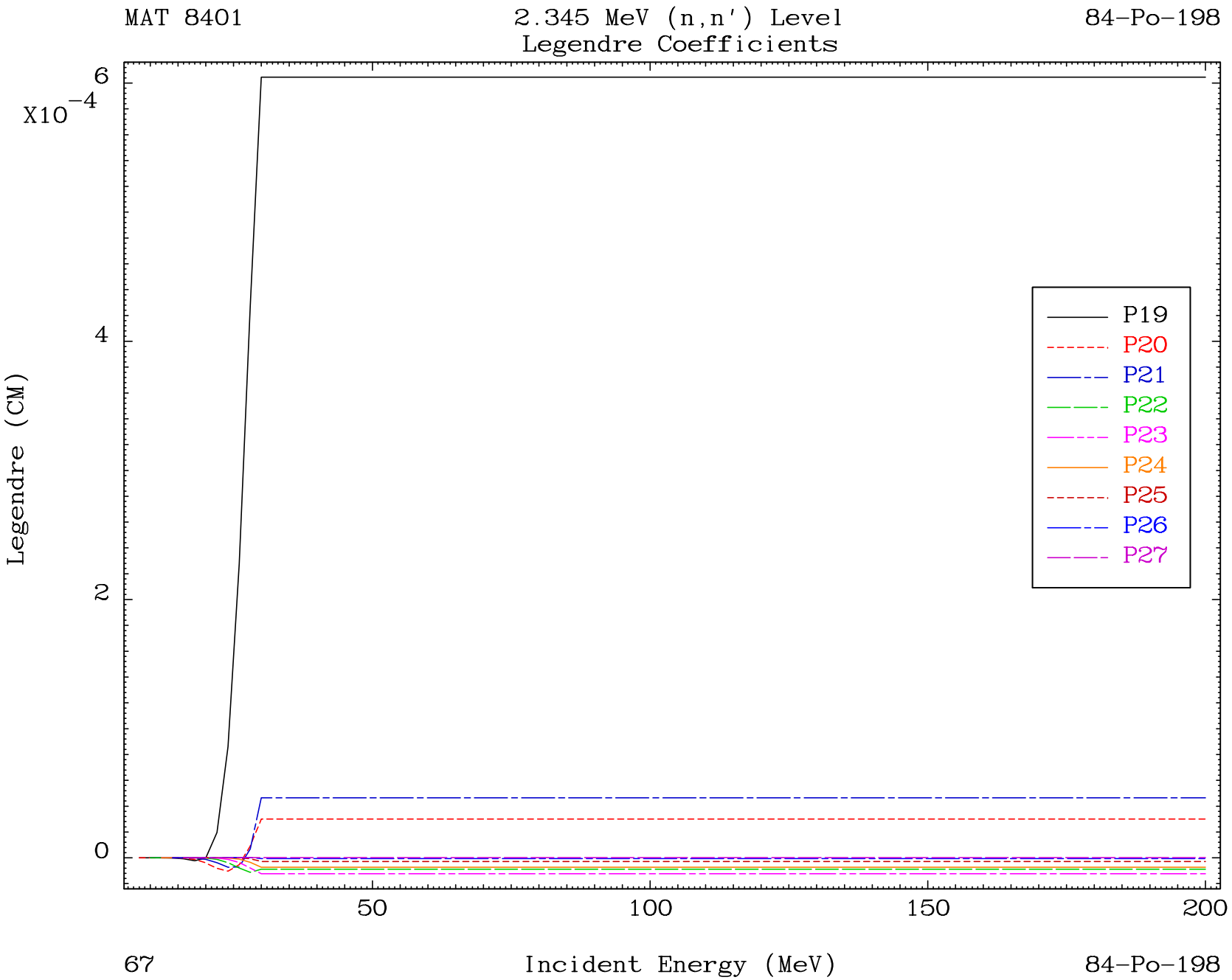

MAT 8401
2.325 MeV (n,n') Level
Legendre Coefficients
84-Po-198
0.005
0.000
-0.005
-0.010
Legendre (CM)
0
50
100
150
200
62
Incident Energy (MeV)
84-Po-198
P10
P11
P12
P13
P14
P15
P16
P17
P18

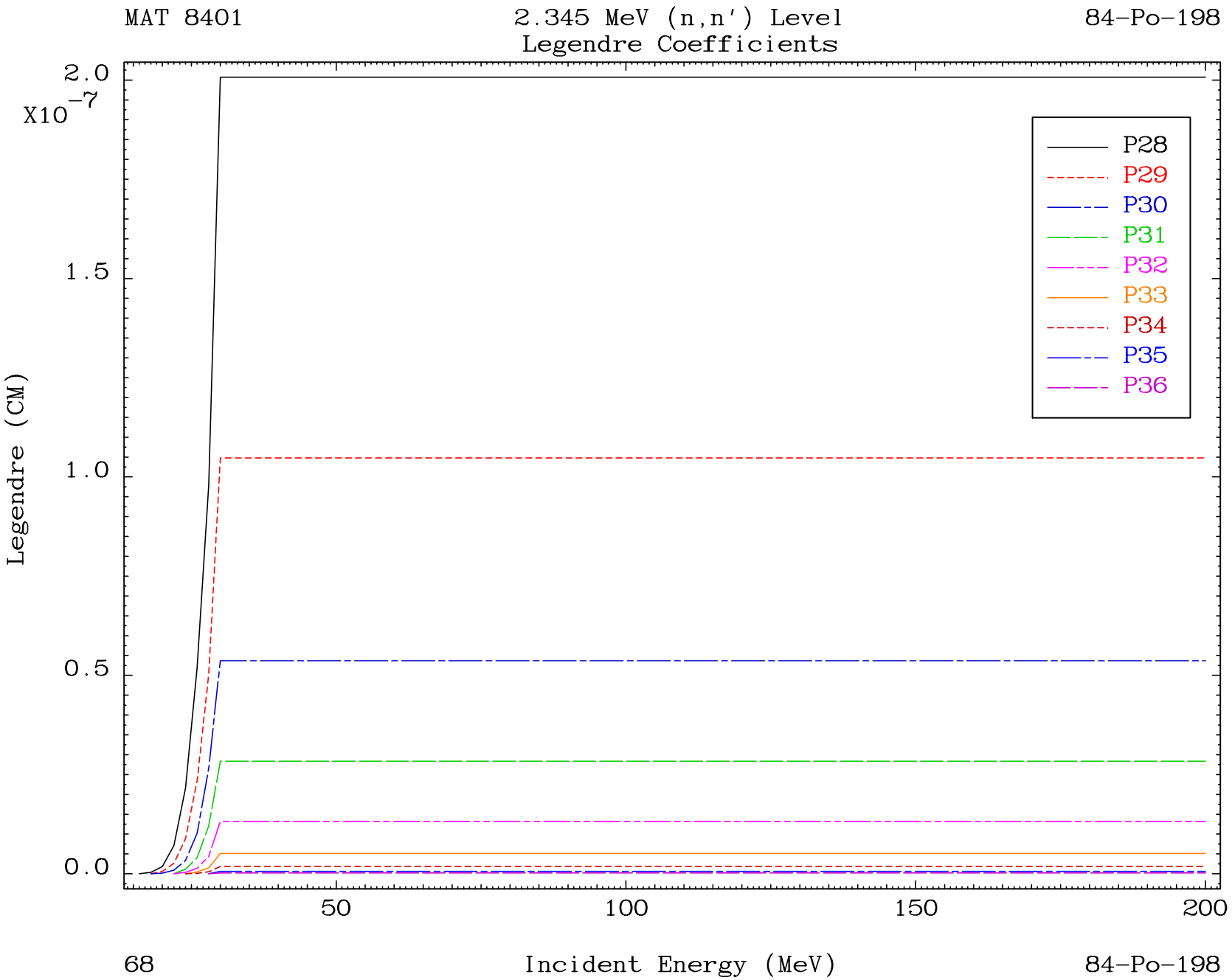

MAT 8401
2.325 MeV (n,n') Level
Legendre Coefficients
84-Po-198
X10 -4
3
2
1
0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
63
Incident Energy (MeV)
84-Po-198

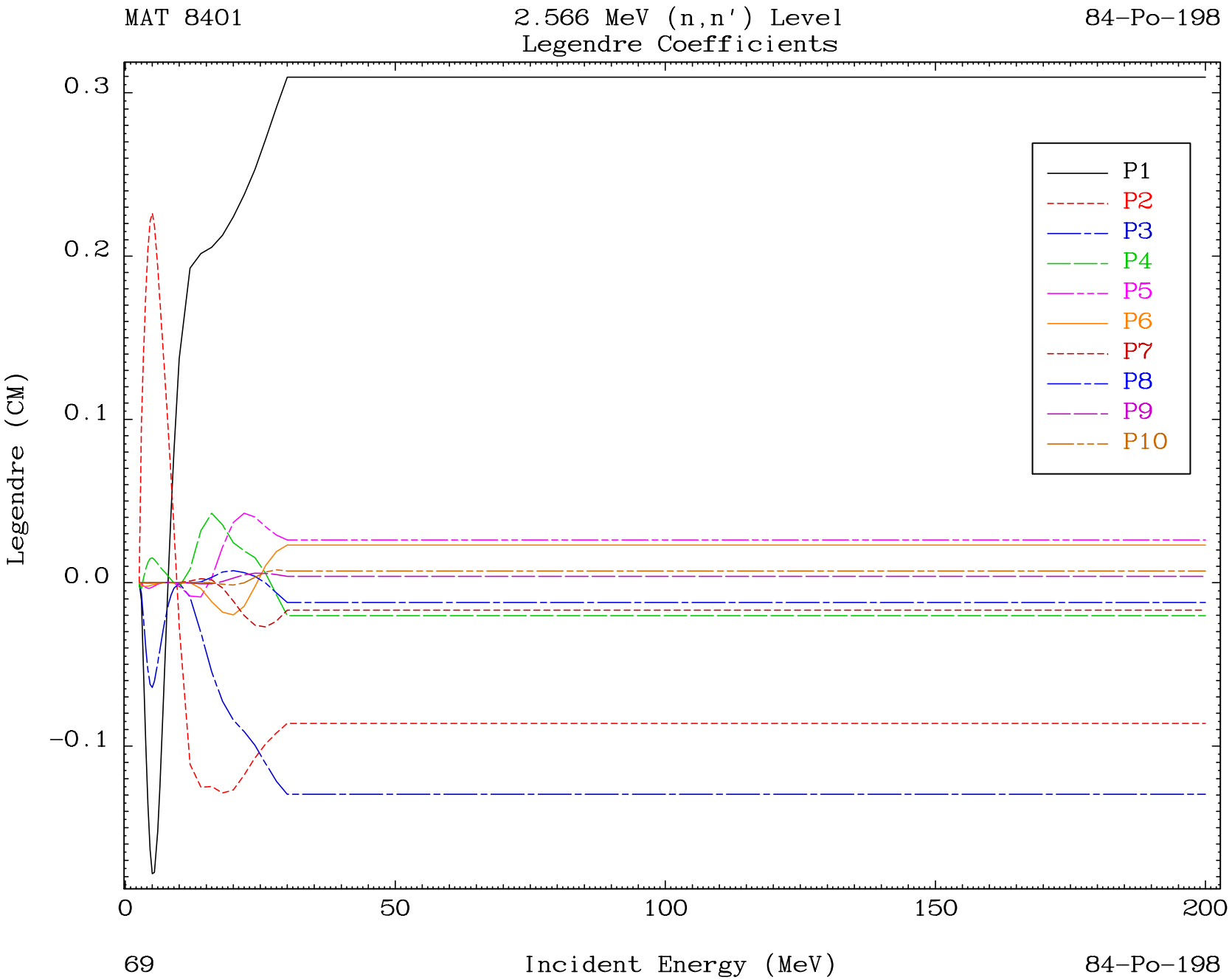

MAT 8401
2.325 MeV (n,n') Level
Legendre Coefficients
84-Po-198
X10 −9
2
0
−2
−4
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
64
Incident Energy (MeV)
84-Po-198

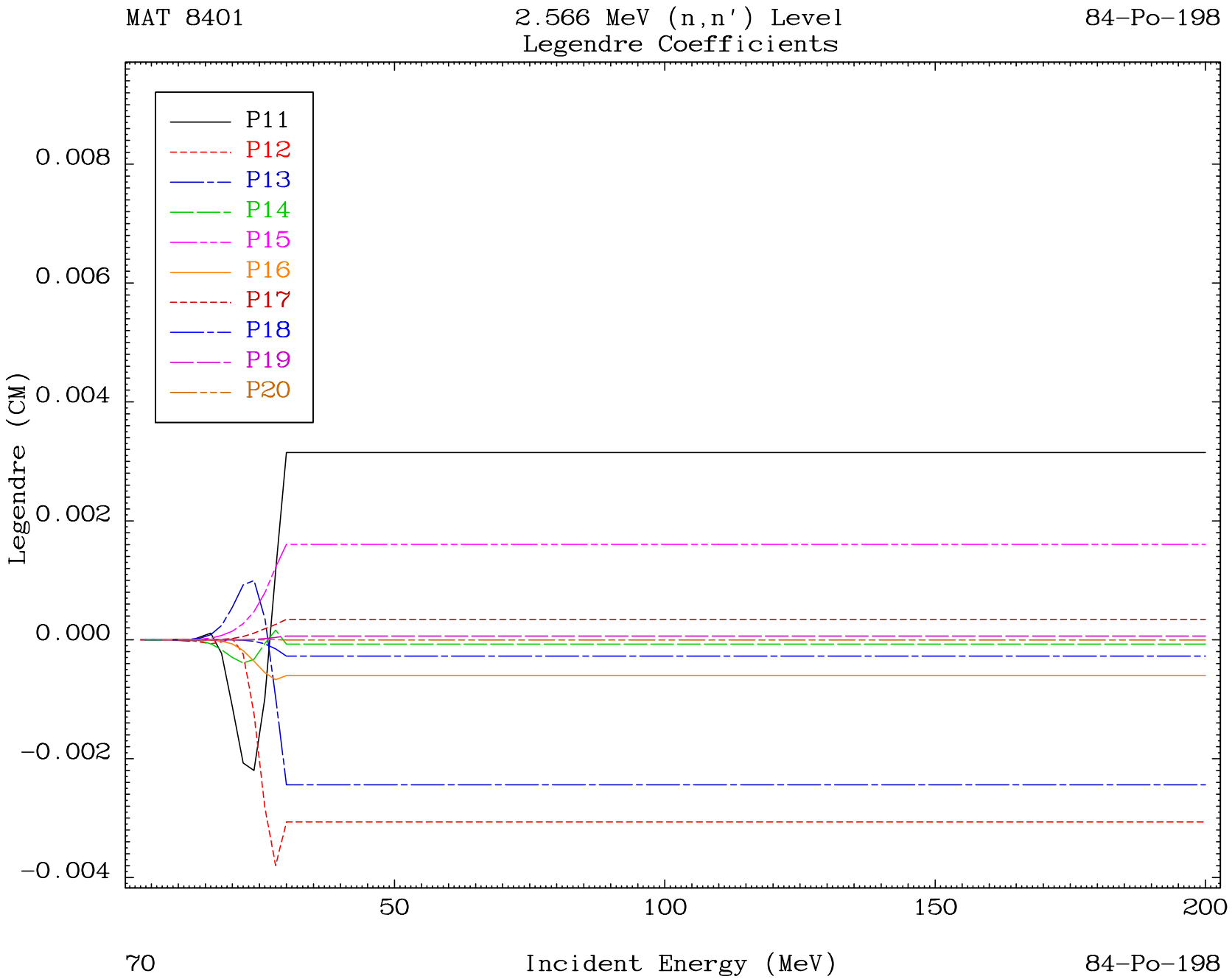

MAT 8401
2.345 MeV (n,n') Level
Legendre Coefficients
84-Po-198
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
65
Incident Energy (MeV)
84-Po-198
P1
P2
P3
P4
P5
P6
P7
P8
P9

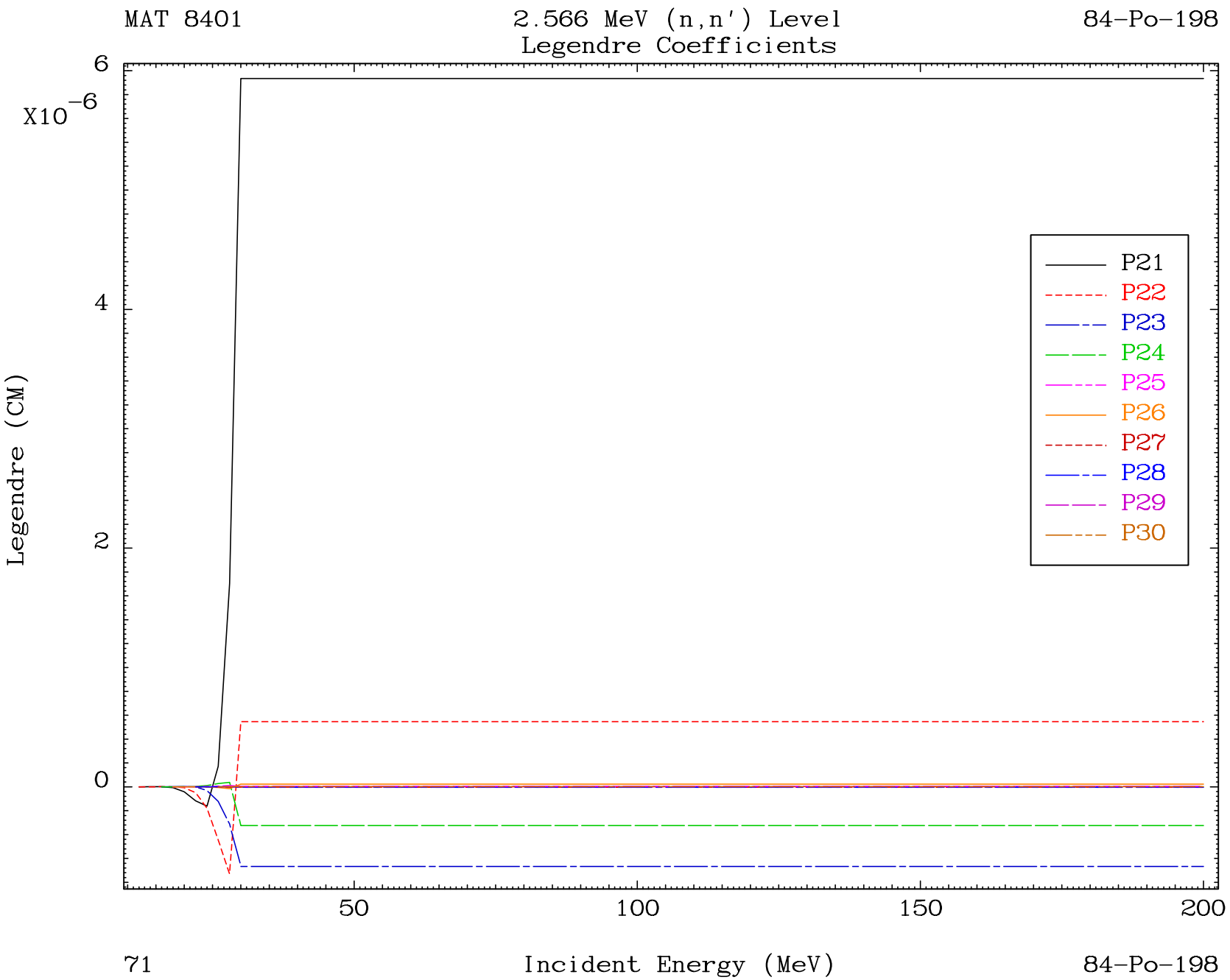

MAT 8401
2.345 MeV (n,n') Level
Legendre Coefficients
84-Po-198
0.005
0.000
-0.005
-0.010
-0.015
-0.020
Legendre (CM)
0
50
100
150
200
66
Incident Energy (MeV)
84-Po-198
P10
P11
P12
P13
P14
P15
P16
P17
P18

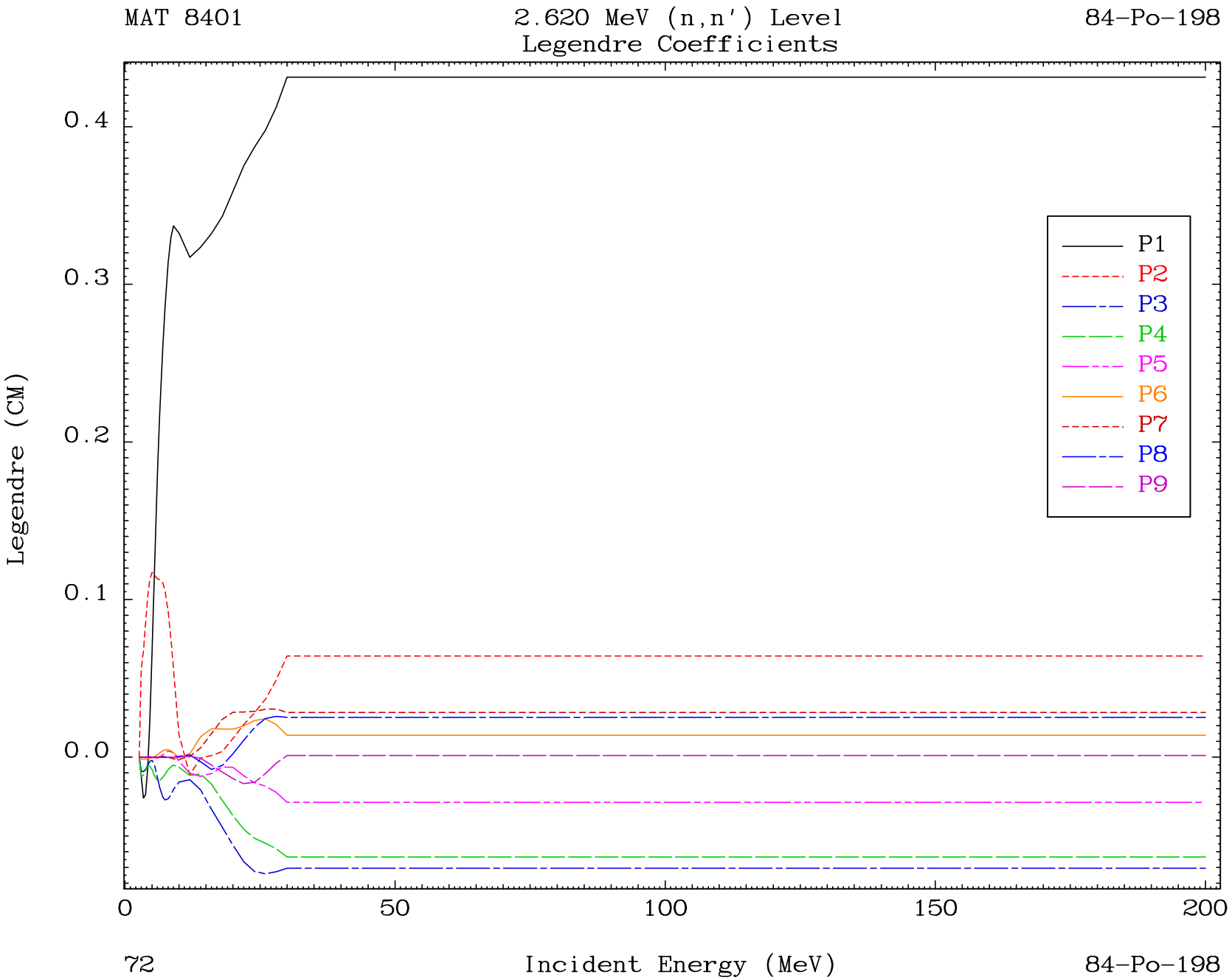

MAT 8401
2.345 MeV (n,n') Level
Legendre Coefficients
84-Po-198
X10^-4
6
4
2
0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
67
Incident Energy (MeV)
84-Po-198

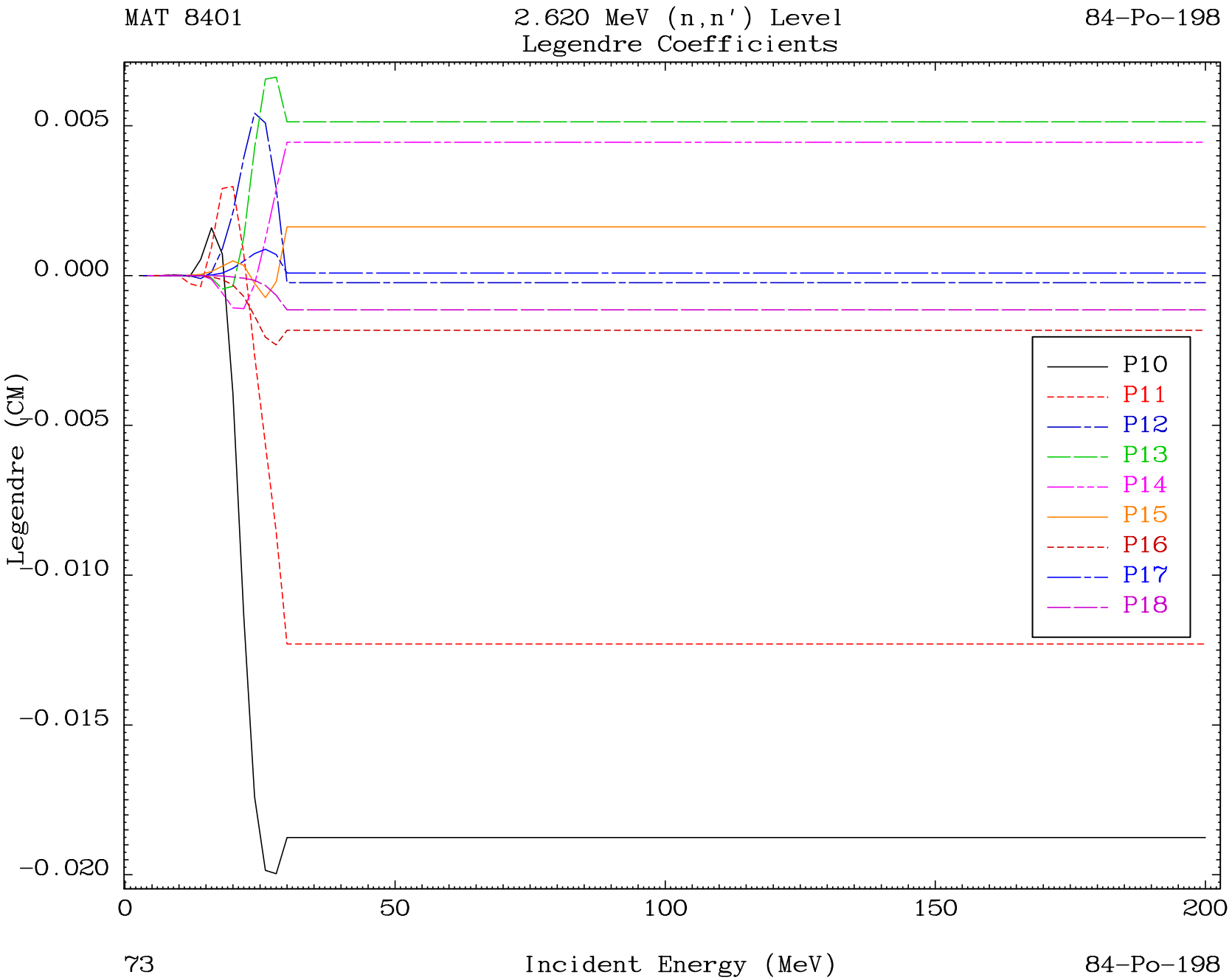

MAT 8401
2.345 MeV (n,n') Level
Legendre Coefficients
84-Po-198
X10-7
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
P35
P36
50
100
150
200
68
Incident Energy (MeV)
84-Po-198

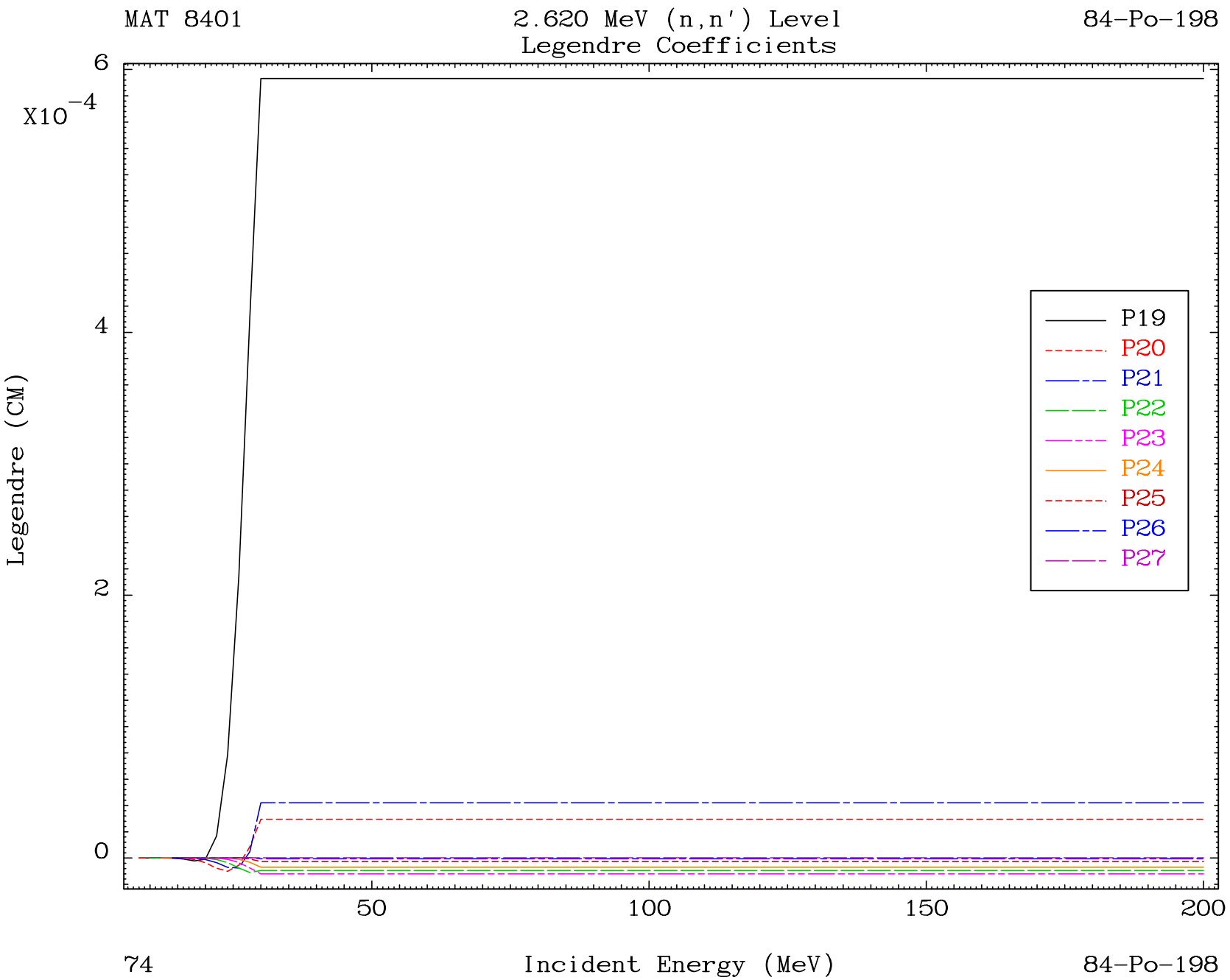

MAT 8401
2.566 MeV (n,n') Level
Legendre Coefficients
84-Po-198
0.3
0.2
0.1
0.0
-0.1
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
0
50
100
150
200
69
Incident Energy (MeV)
84-Po-198

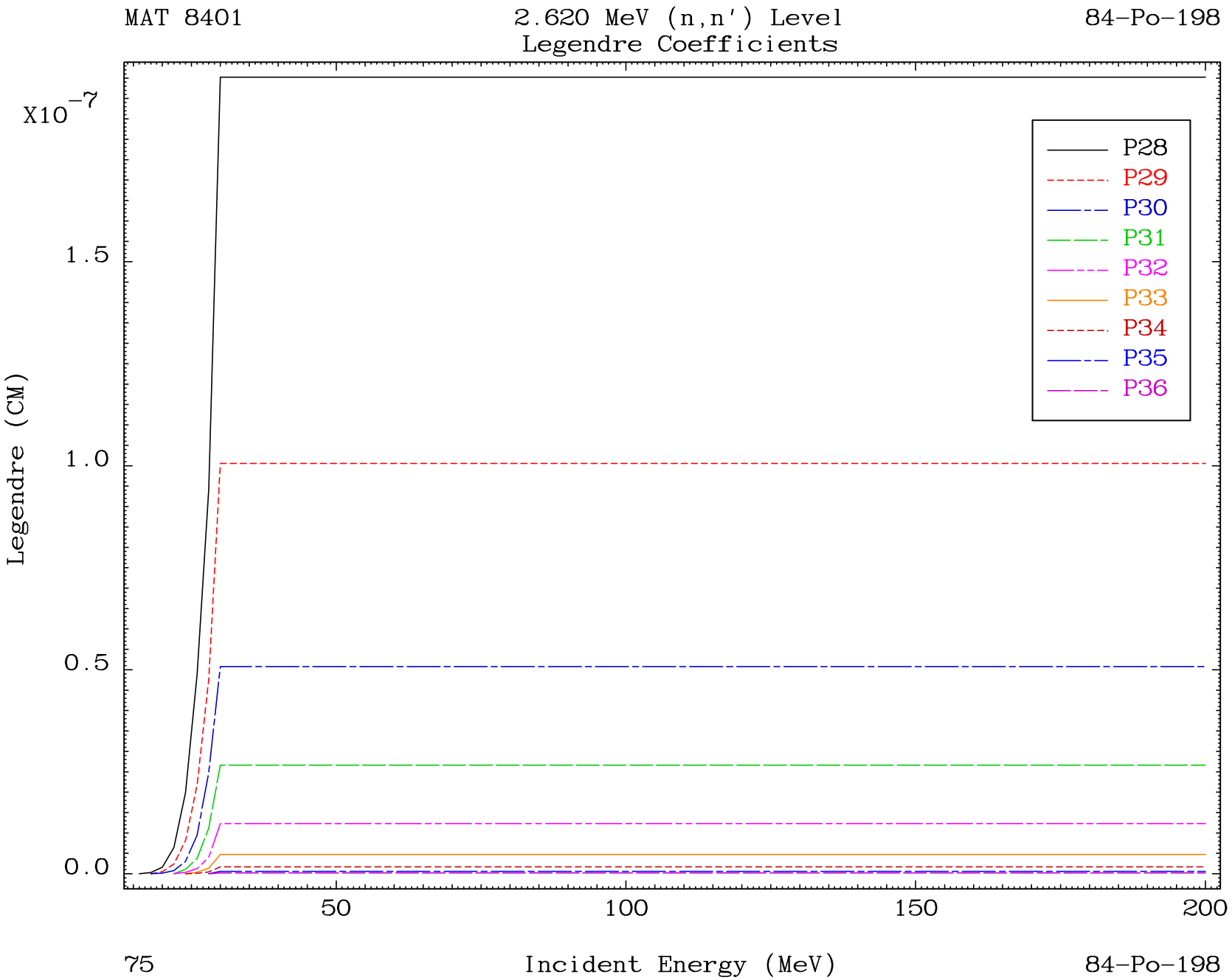

MAT 8401
2.566 MeV (n,n') Level
Legendre Coefficients
84-Po-198
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.008
0.006
0.004
0.002
0.000
-0.002
-0.004
Legendre (CM)
50
100
150
200
70
Incident Energy (MeV)
84-Po-198

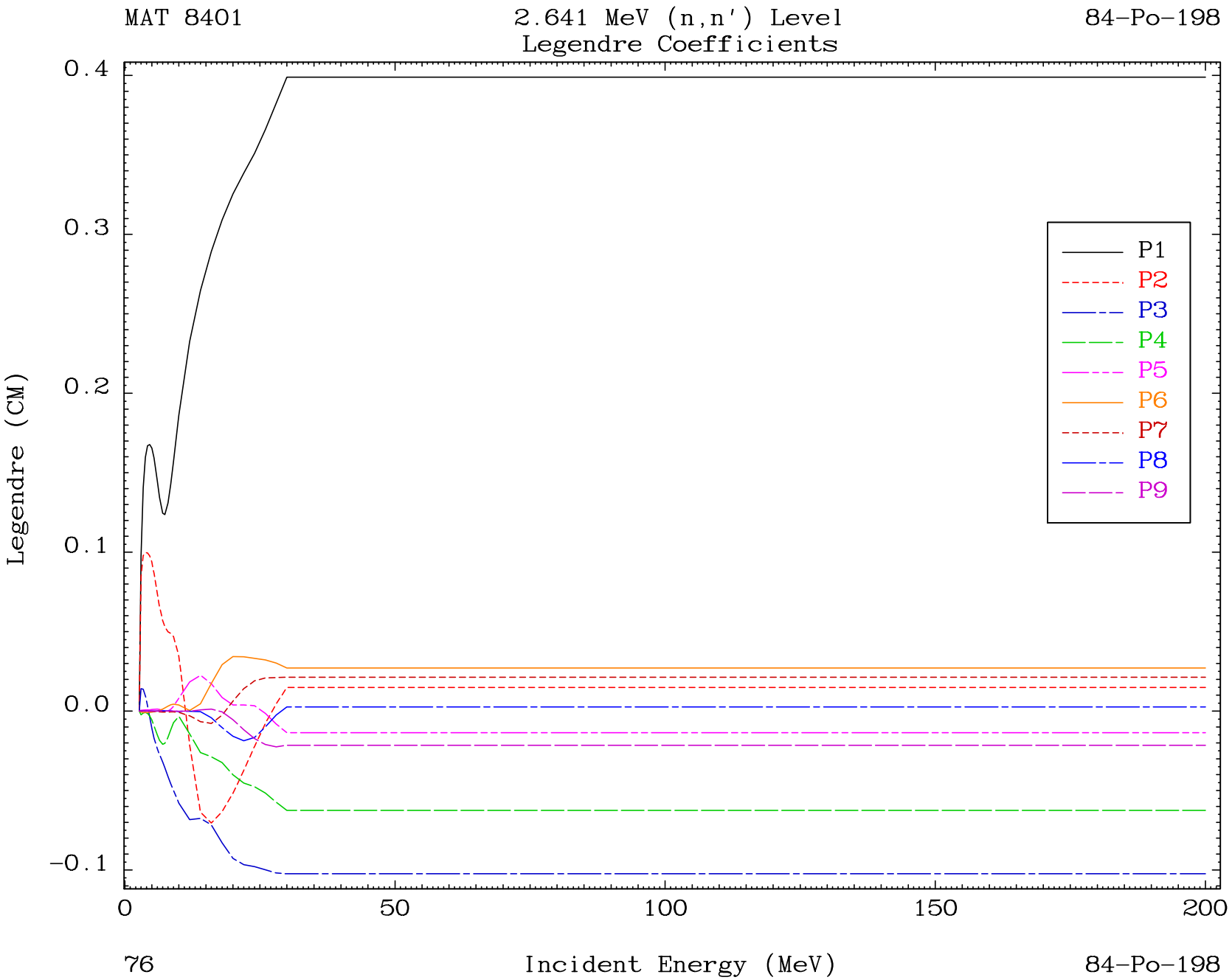

MAT 8401
2.566 MeV (n,n') Level
Legendre Coefficients
84-Po-198
X10^-6
6
4
2
0
Legendre (CM)
50
100
150
200
71
Incident Energy (MeV)
84-Po-198
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30

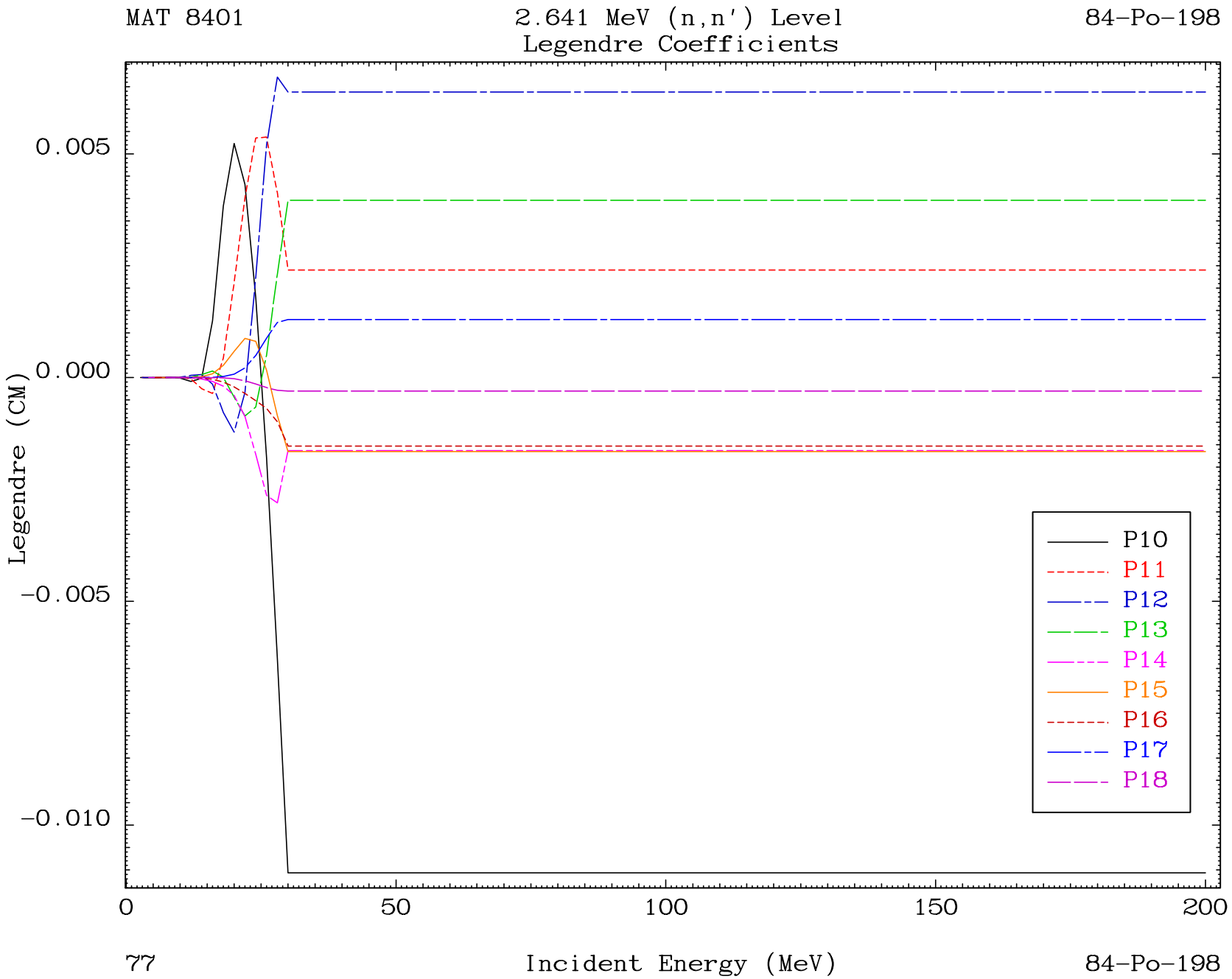

MAT 8401
2.620 MeV (n,n') Level
Legendre Coefficients
84-Po-198
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
72
Incident Energy (MeV)
84-Po-198

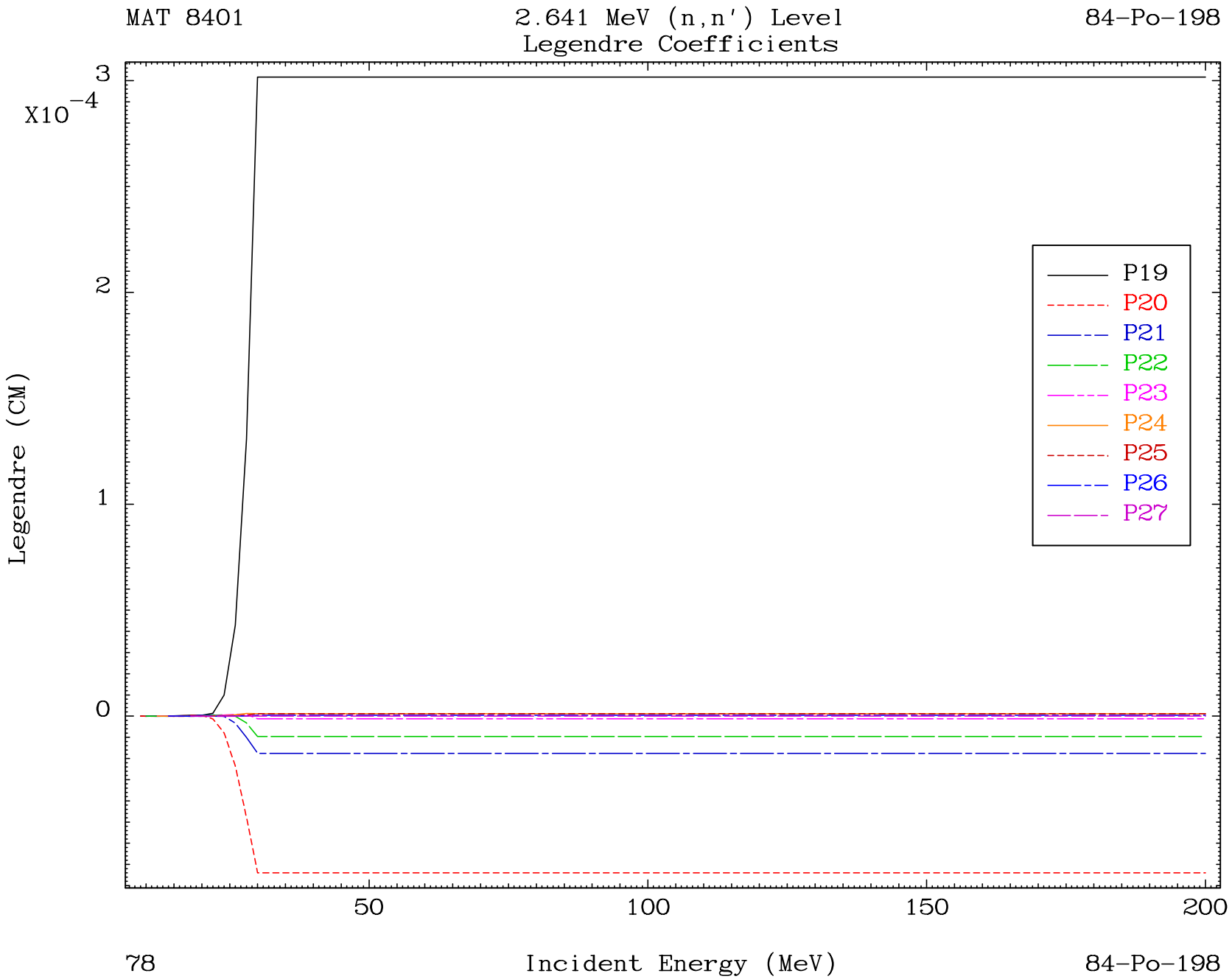

MAT 8401
2.620 MeV (n,n') Level
Legendre Coefficients
84-Po-198
0.005
0.000
-0.005
-0.010
-0.015
-0.020
Legendre (CM)
0
50
100
150
200
P10
P11
P12
P13
P14
P15
P16
P17
P18
73
Incident Energy (MeV)
84-Po-198

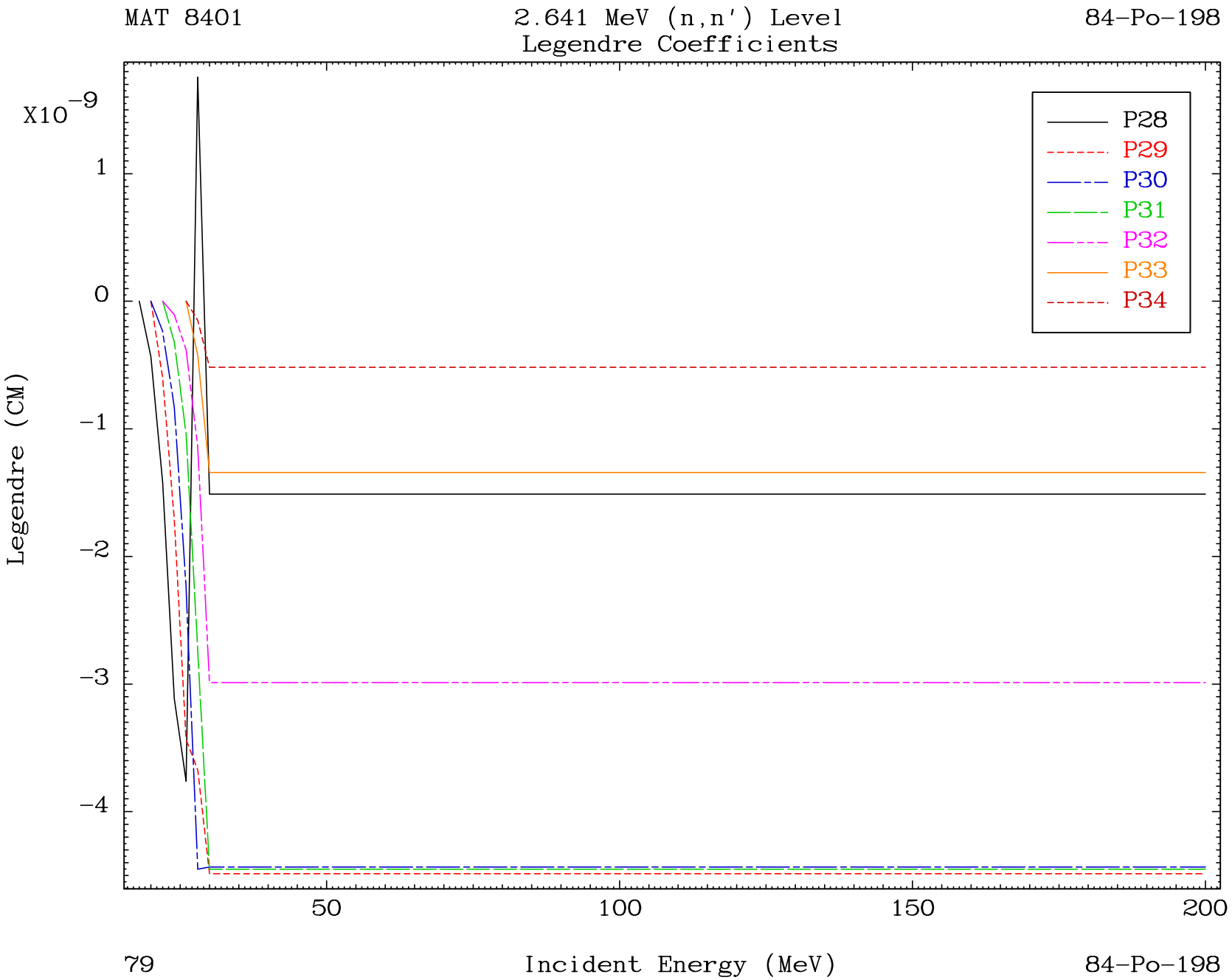

MAT 8401
2.620 MeV (n,n') Level
Legendre Coefficients
84-Po-198
X10^-4
6
4
2
0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
74
Incident Energy (MeV)
84-Po-198

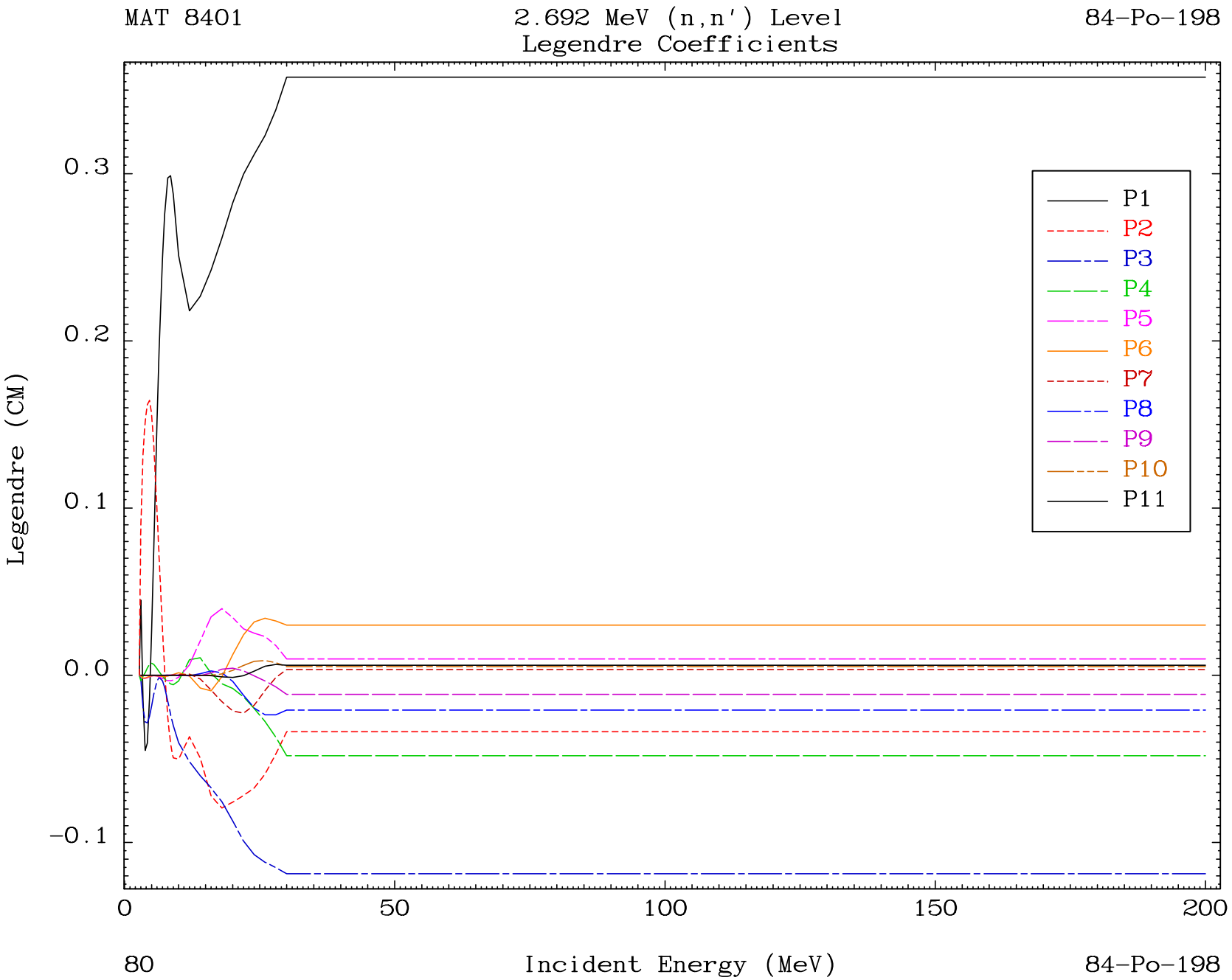

MAT 8401
2.620 MeV (n,n') Level
Legendre Coefficients
84-Po-198
X10-7
1.5
1.0
0.5
0.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
P35
P36
50
100
150
200
75
Incident Energy (MeV)
84-Po-198

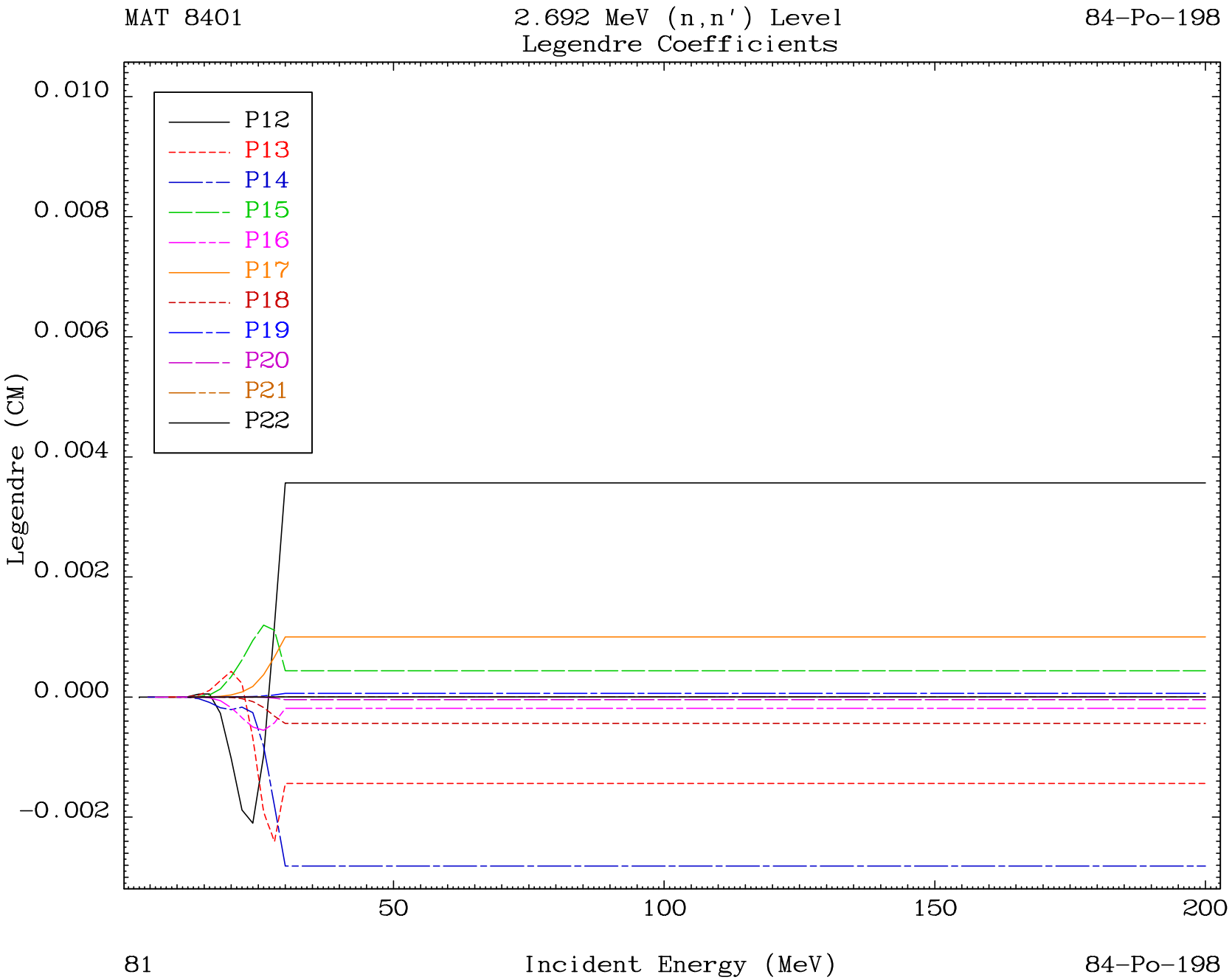

MAT 8401
2.641 MeV (n,n') Level
Legendre Coefficients
84-Po-198
0.4
0.3
0.2
0.1
0.0
-0.1
Legendre (CM)
0
50
100
150
200
76
Incident Energy (MeV)
84-Po-198
P1
P2
P3
P4
P5
P6
P7
P8
P9

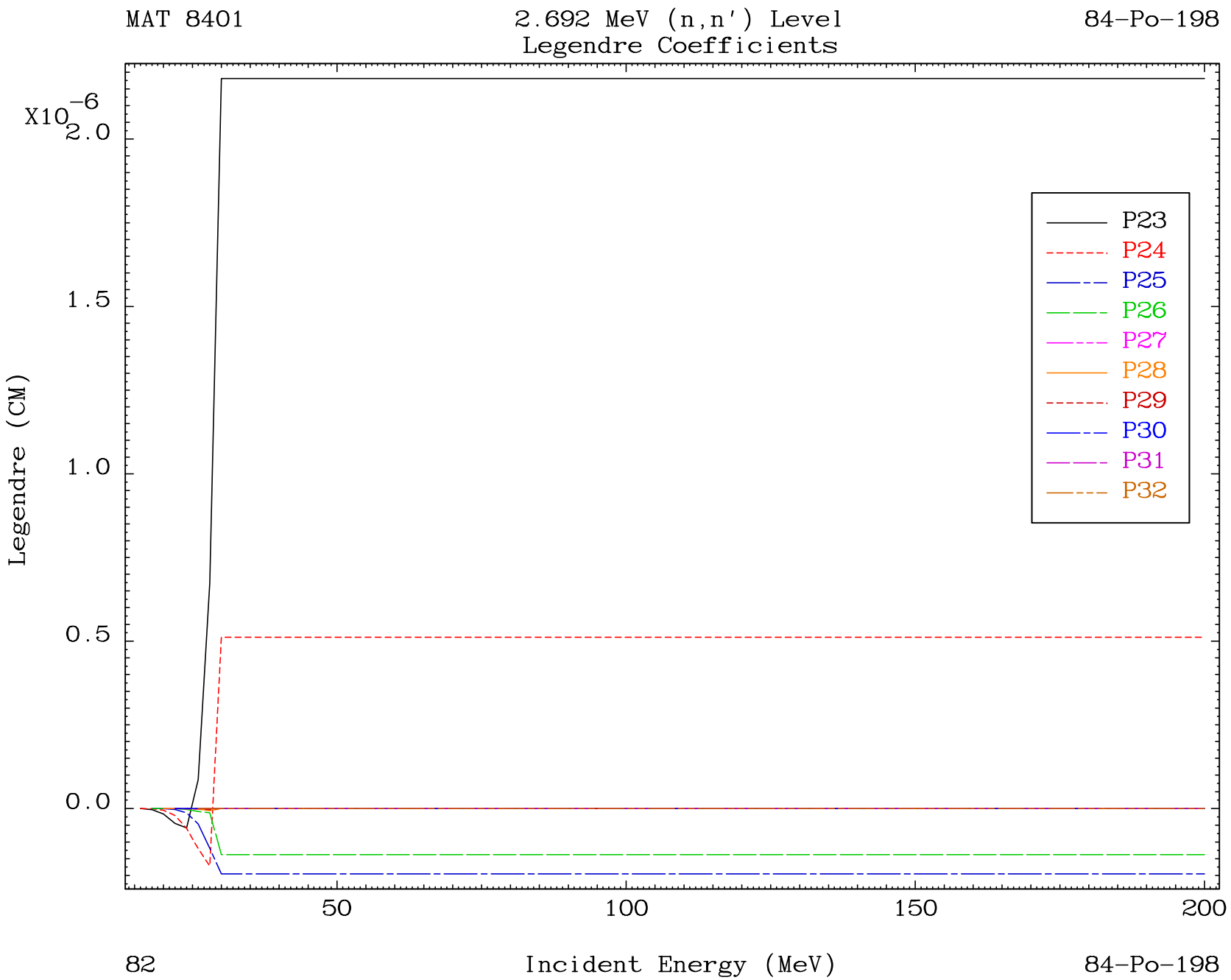

MAT 8401
2.641 MeV (n,n') Level
Legendre Coefficients
84-Po-198
0.005
0.000
-0.005
-0.010
Legendre (CM)
0
50
100
150
200
77
Incident Energy (MeV)
84-Po-198
P10
P11
P12
P13
P14
P15
P16
P17
P18

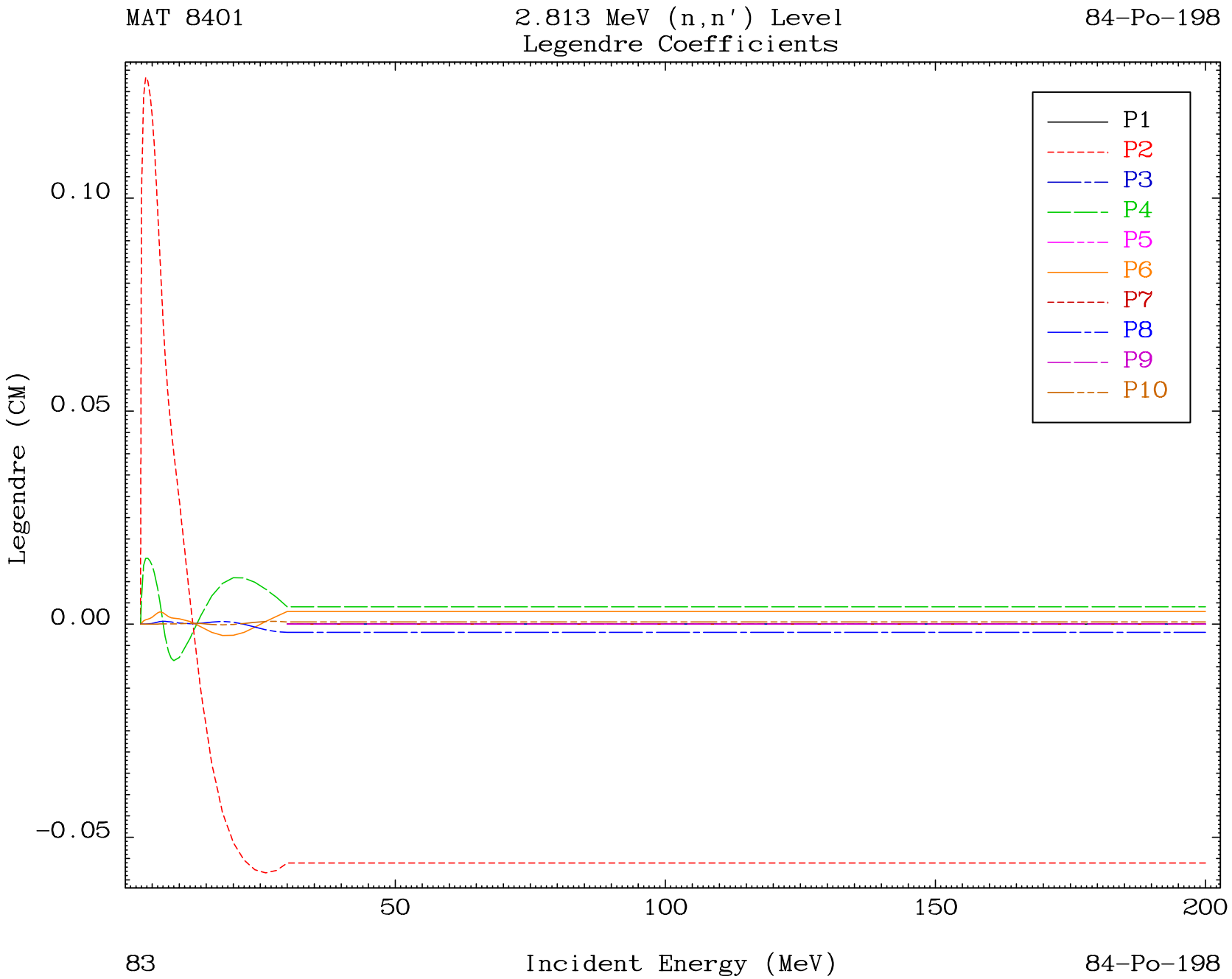

MAT 8401
2.641 MeV (n,n') Level
Legendre Coefficients
84-Po-198
X10^-4
3
2
1
0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
78
Incident Energy (MeV)
84-Po-198

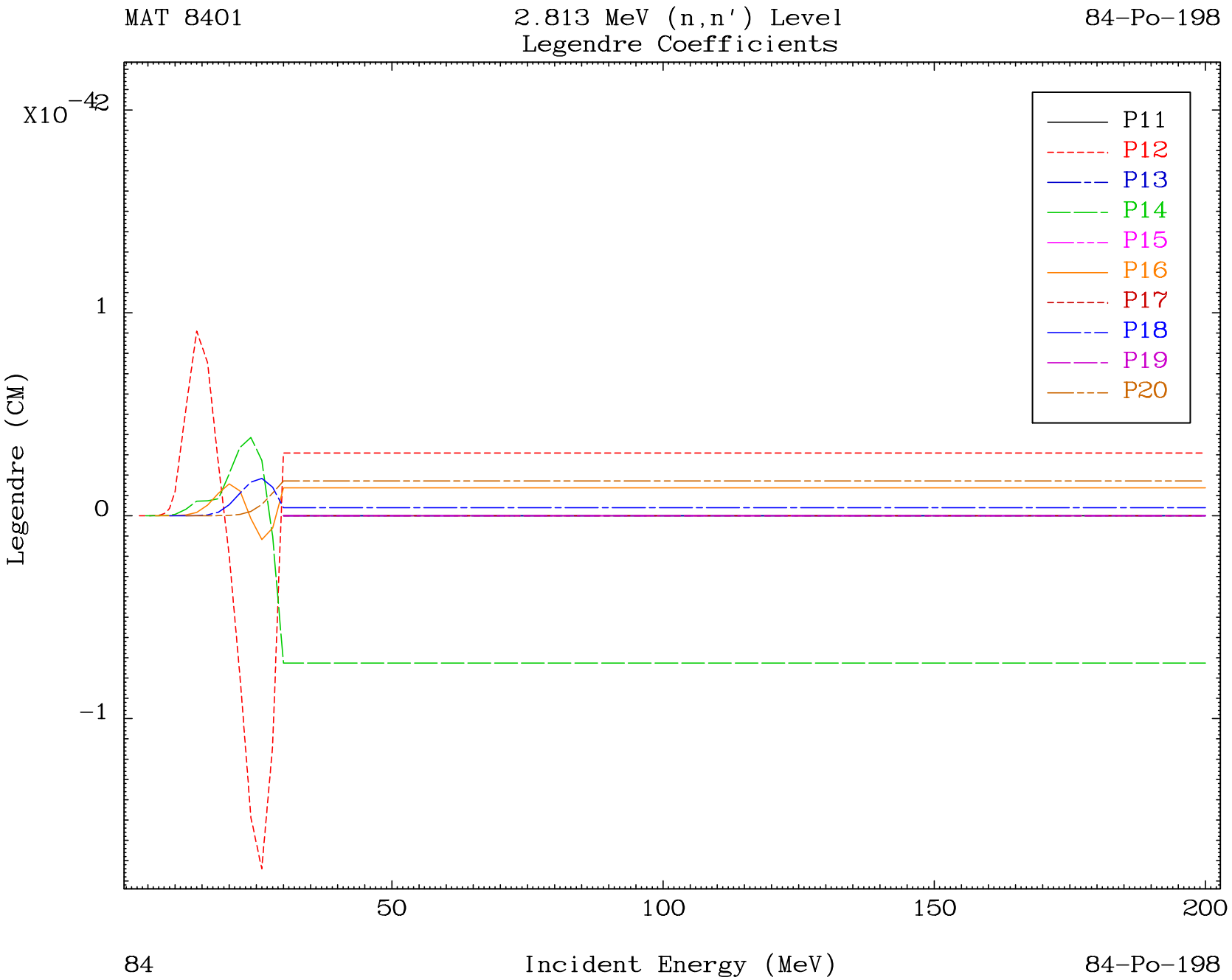

MAT 8401
2.641 MeV (n,n') Level
Legendre Coefficients
84-Po-198
X10 −9
1
0
−1
−2
−3
−4
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
79
Incident Energy (MeV)
84-Po-198

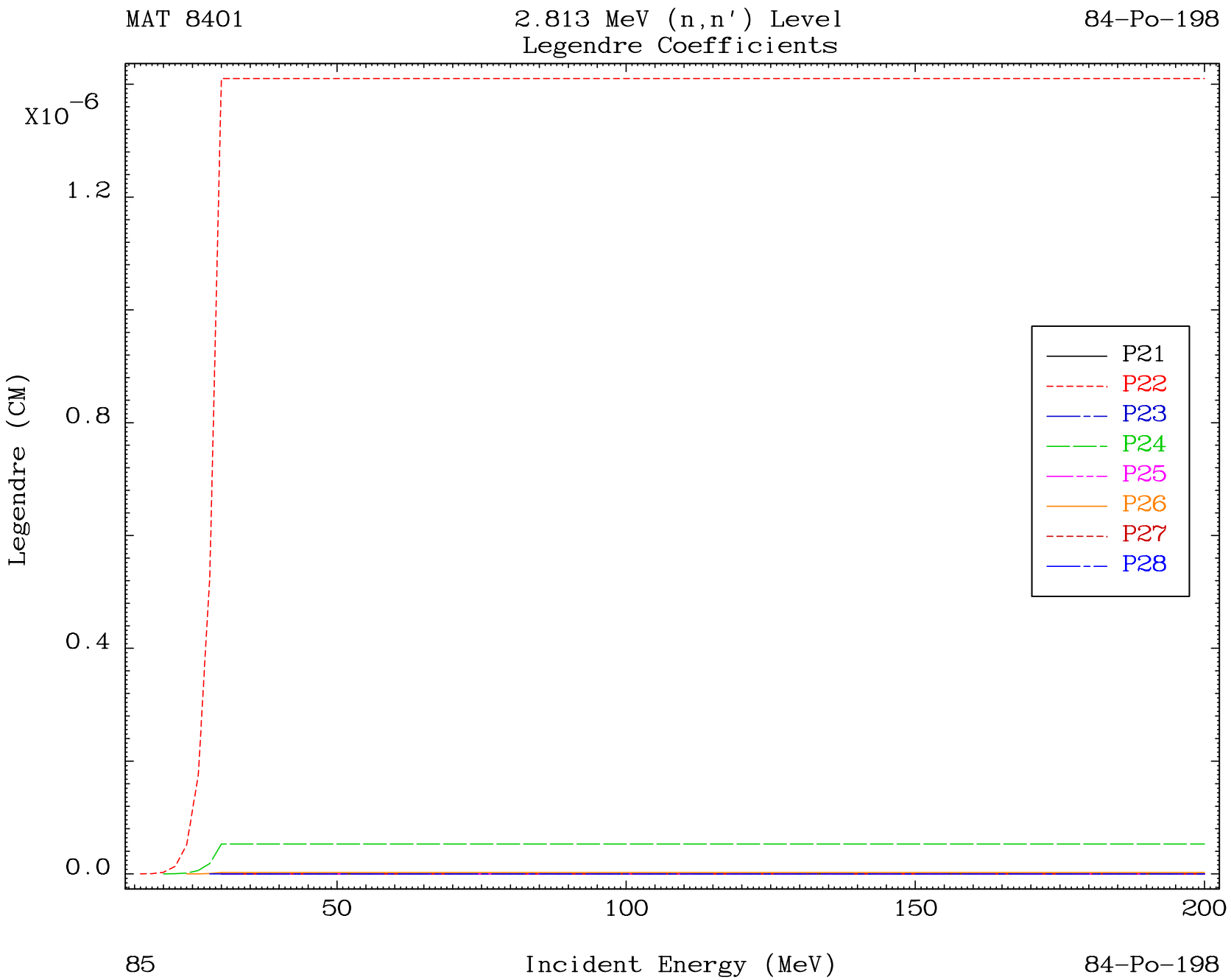

MAT 8401
2.692 MeV (n,n') Level
Legendre Coefficients
84-Po-198
Legendre (CM)
0.3
0.2
0.1
0.0
-0.1
0
50
100
150
200
80
Incident Energy (MeV)
84-Po-198
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11

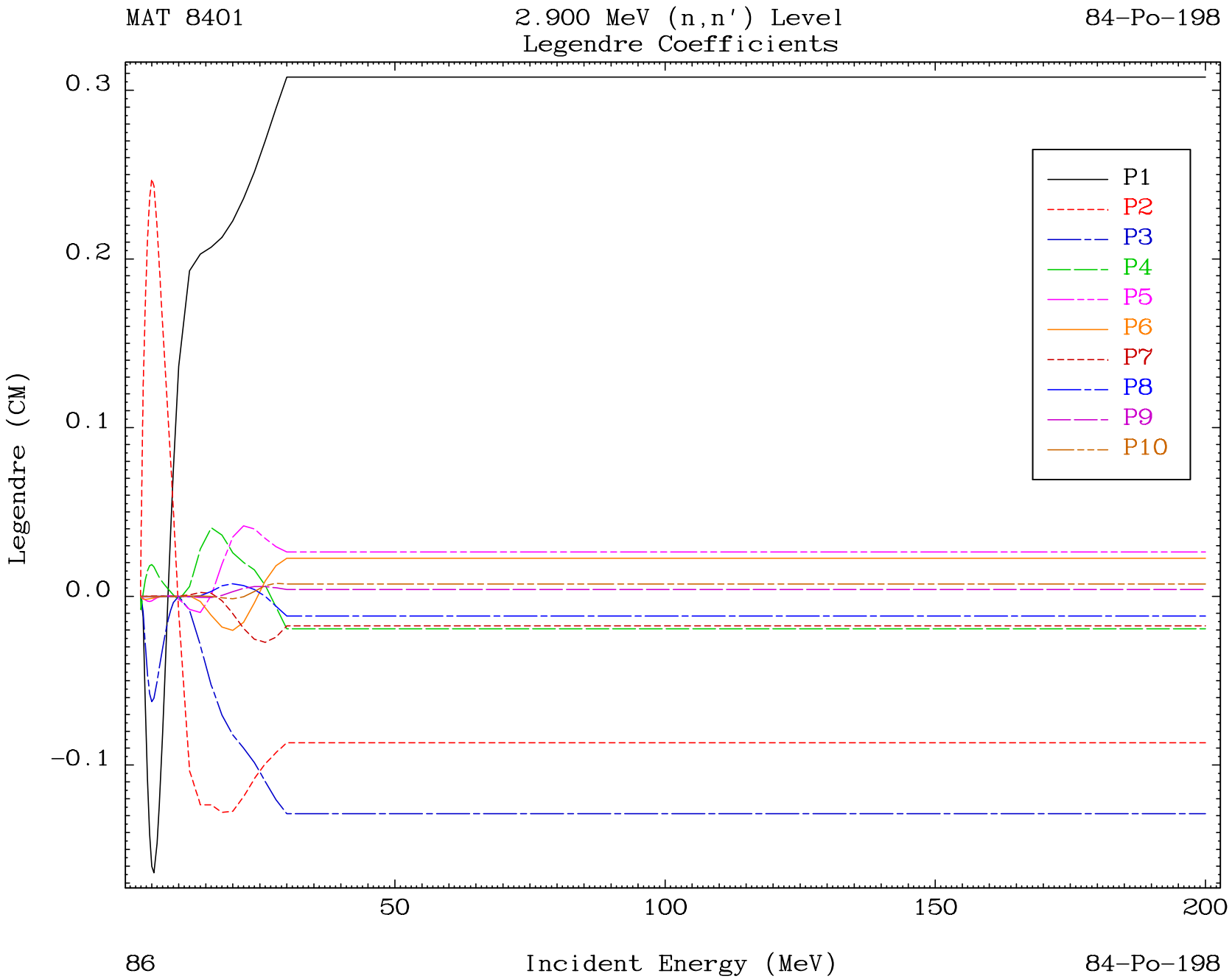

MAT 8401
2.692 MeV (n,n') Level
Legendre Coefficients
84-Po-198
P12
P13
P14
P15
P16
P17
P18
P19
P20
P21
P22
0.010
0.008
0.006
0.004
0.002
0.000
-0.002
Legendre (CM)
50
100
150
200
81
Incident Energy (MeV)
84-Po-198

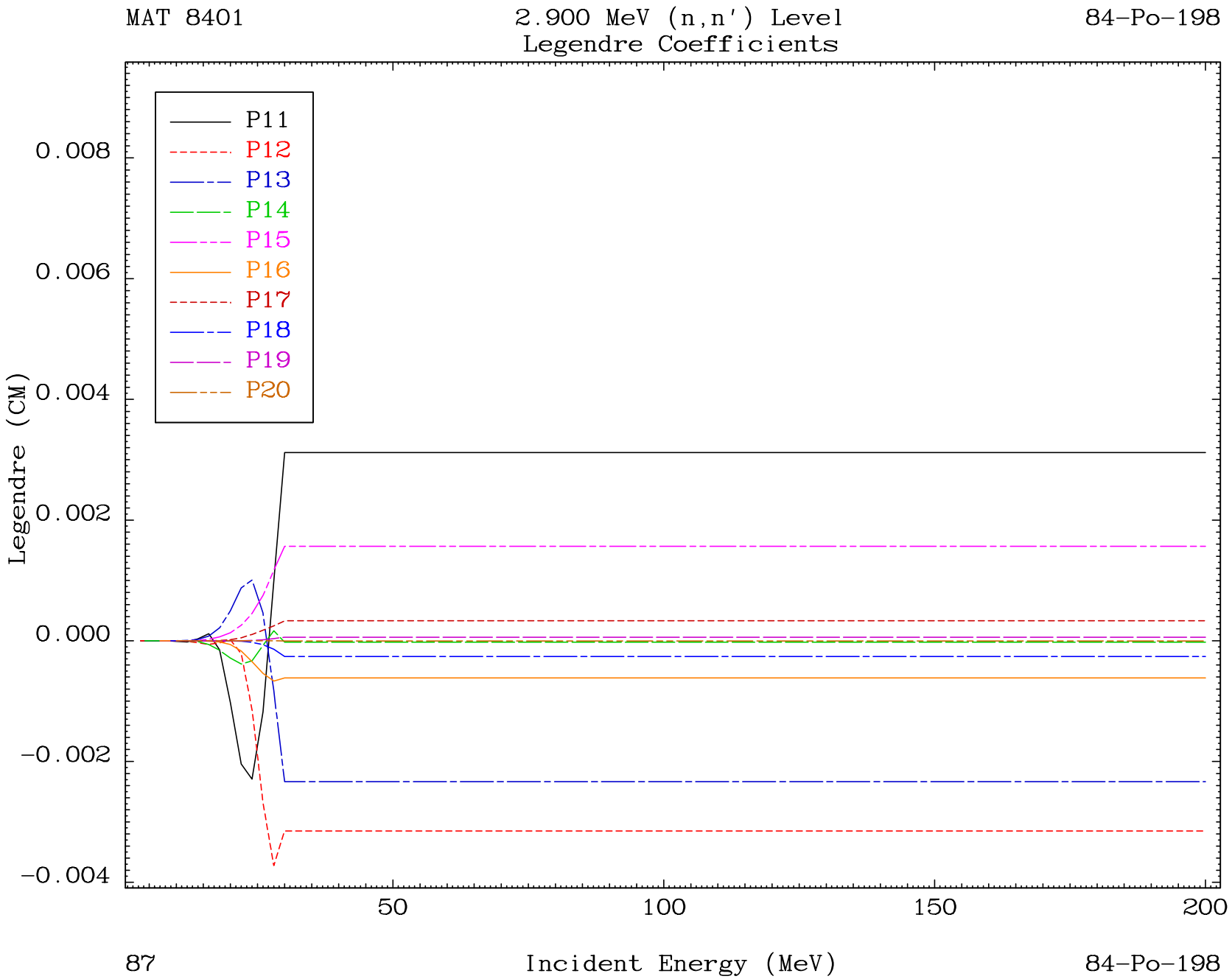

MAT 8401
2.692 MeV (n,n') Level
Legendre Coefficients
84-Po-198
X10-6
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P23
P24
P25
P26
P27
P28
P29
P30
P31
P32
50
100
150
200
82
Incident Energy (MeV)
84-Po-198

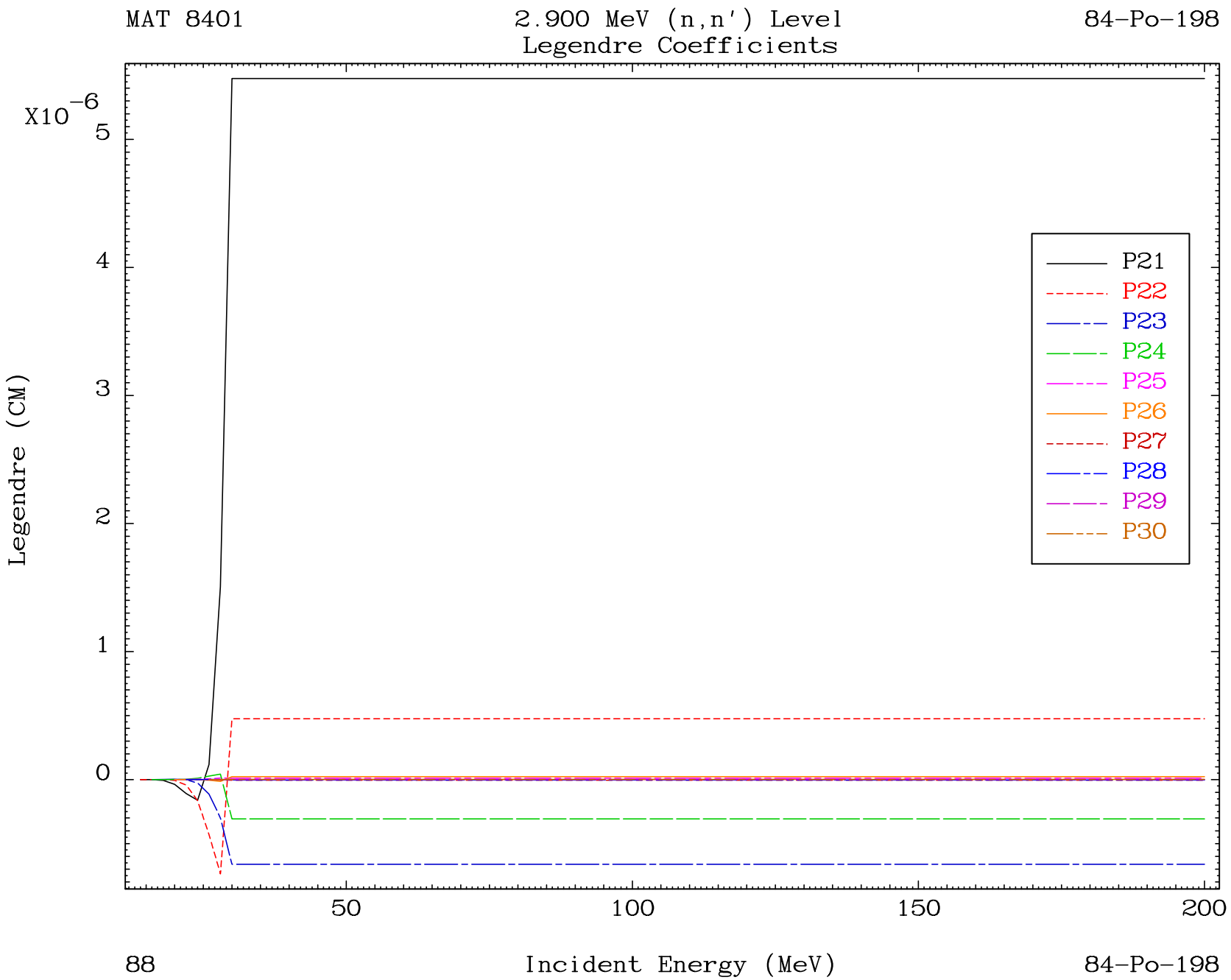

MAT 8401
2.813 MeV (n,n') Level
Legendre Coefficients
84-Po-198
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
0.10
0.05
0.00
-0.05
Legendre (CM)
50
100
150
200
83
Incident Energy (MeV)
84-Po-198

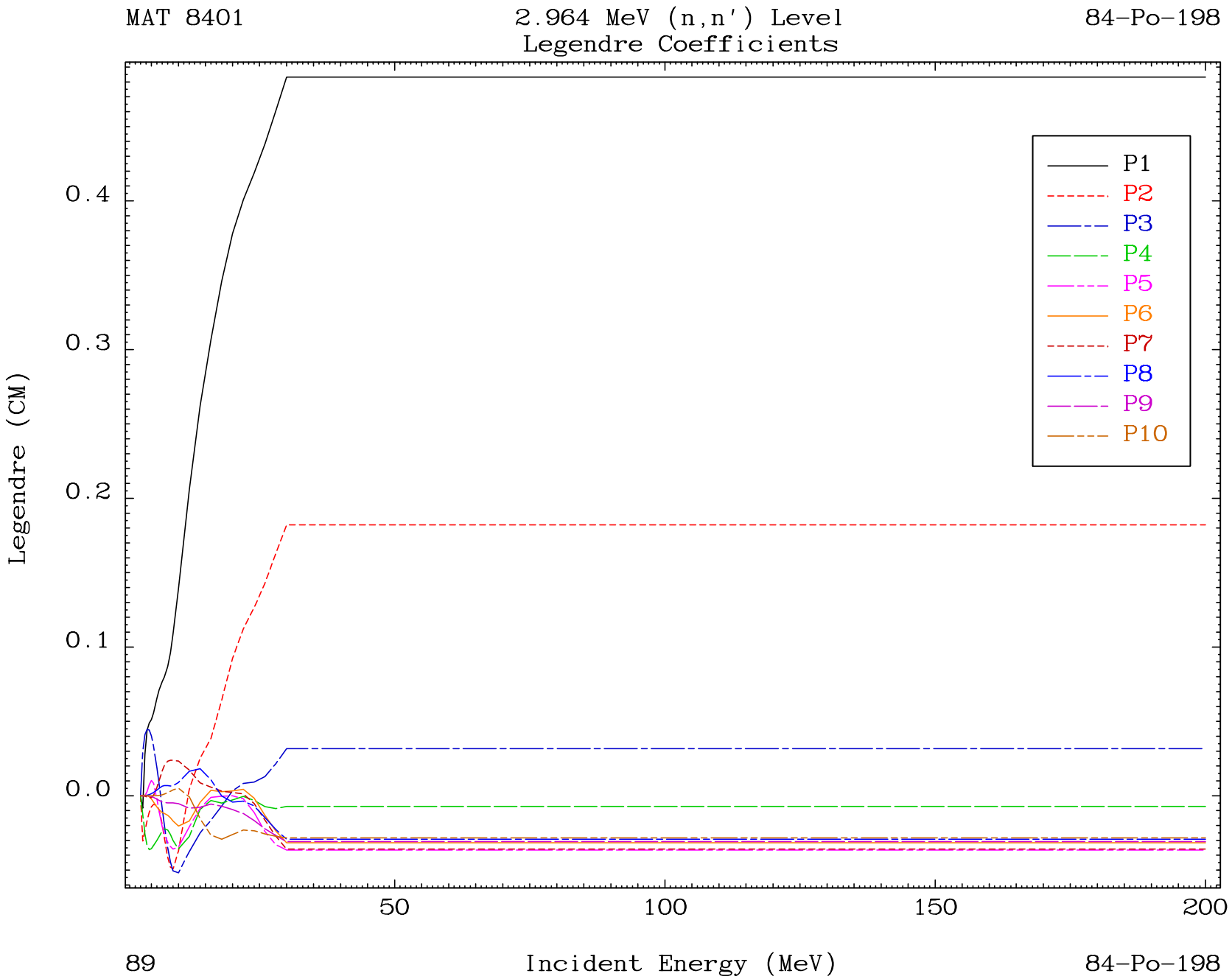

MAT 8401
2.813 MeV (n,n') Level
Legendre Coefficients
84-Po-198
X10 -42
1
0
-1
Legendre (CM)
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
50
100
150
200
84
Incident Energy (MeV)
84-Po-198

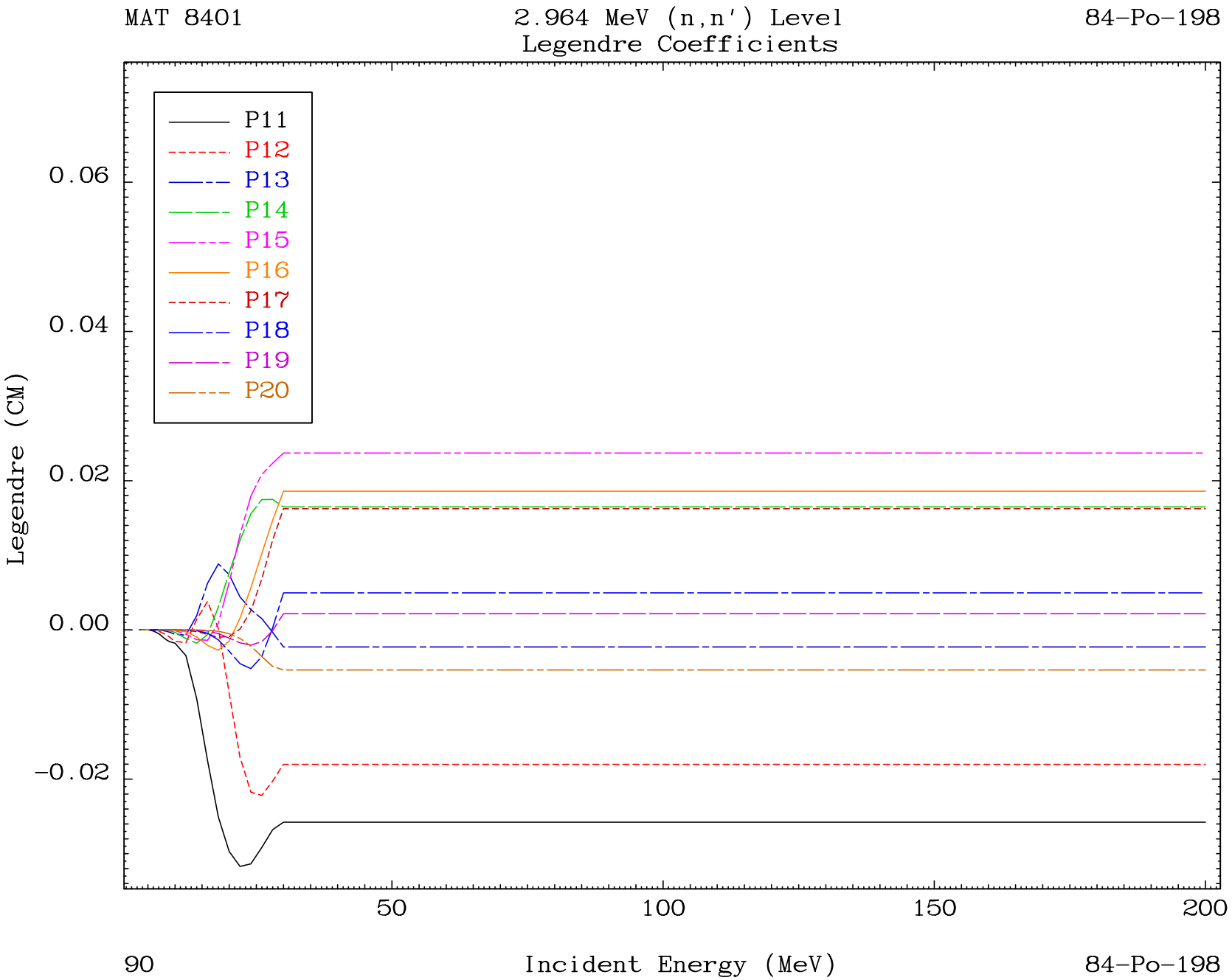

MAT 8401
2.813 MeV (n,n') Level
Legendre Coefficients
84-Po-198
X10^-6
1.2
0.8
0.4
0.0
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
50
100
150
200
85
Incident Energy (MeV)
84-Po-198

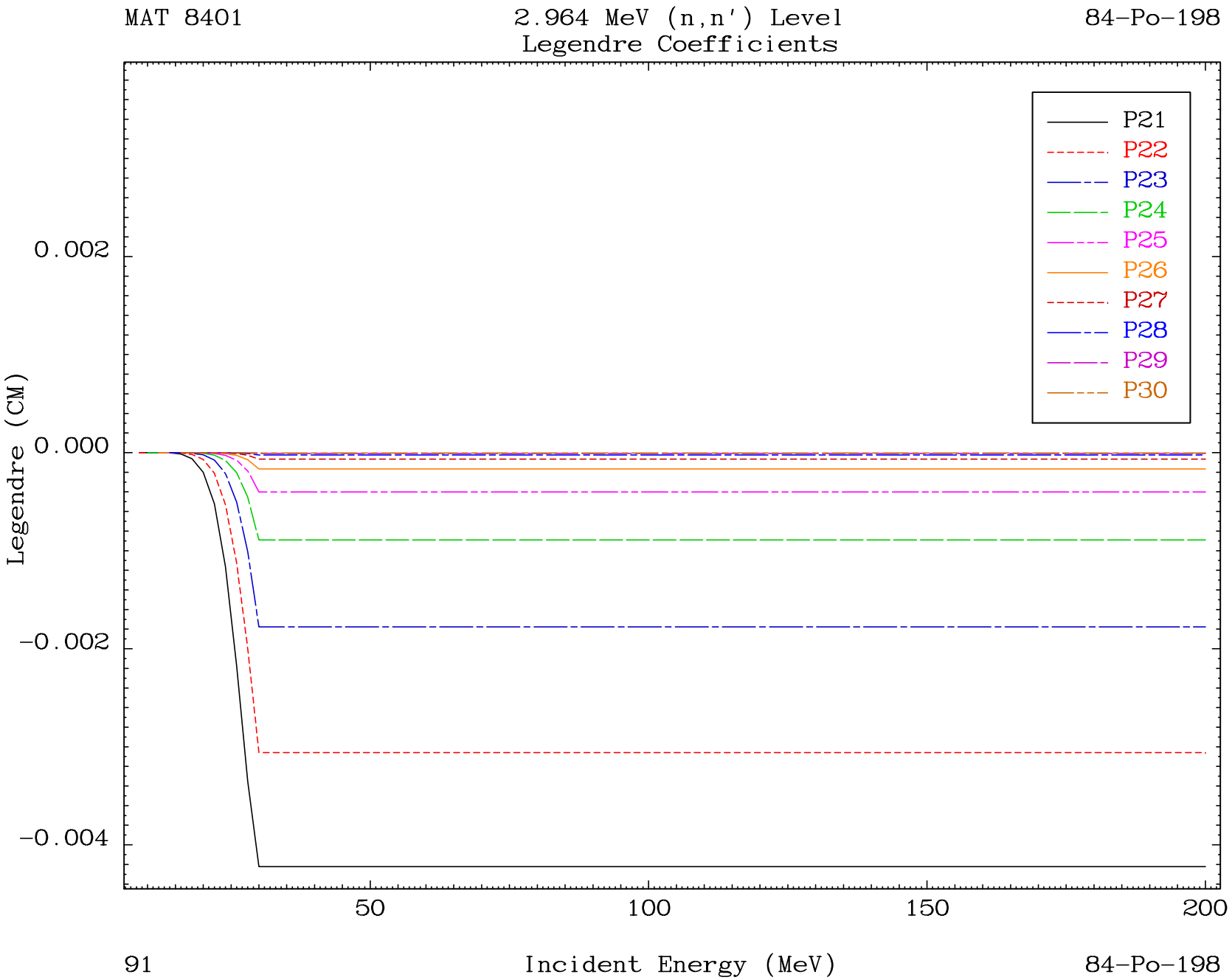

MAT 8401
2.900 MeV (n,n') Level
Legendre Coefficients
84-Po-198
0.3
0.2
0.1
0.0
-0.1
Legendre (CM)
50
100
150
200
86
Incident Energy (MeV)
84-Po-198
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10

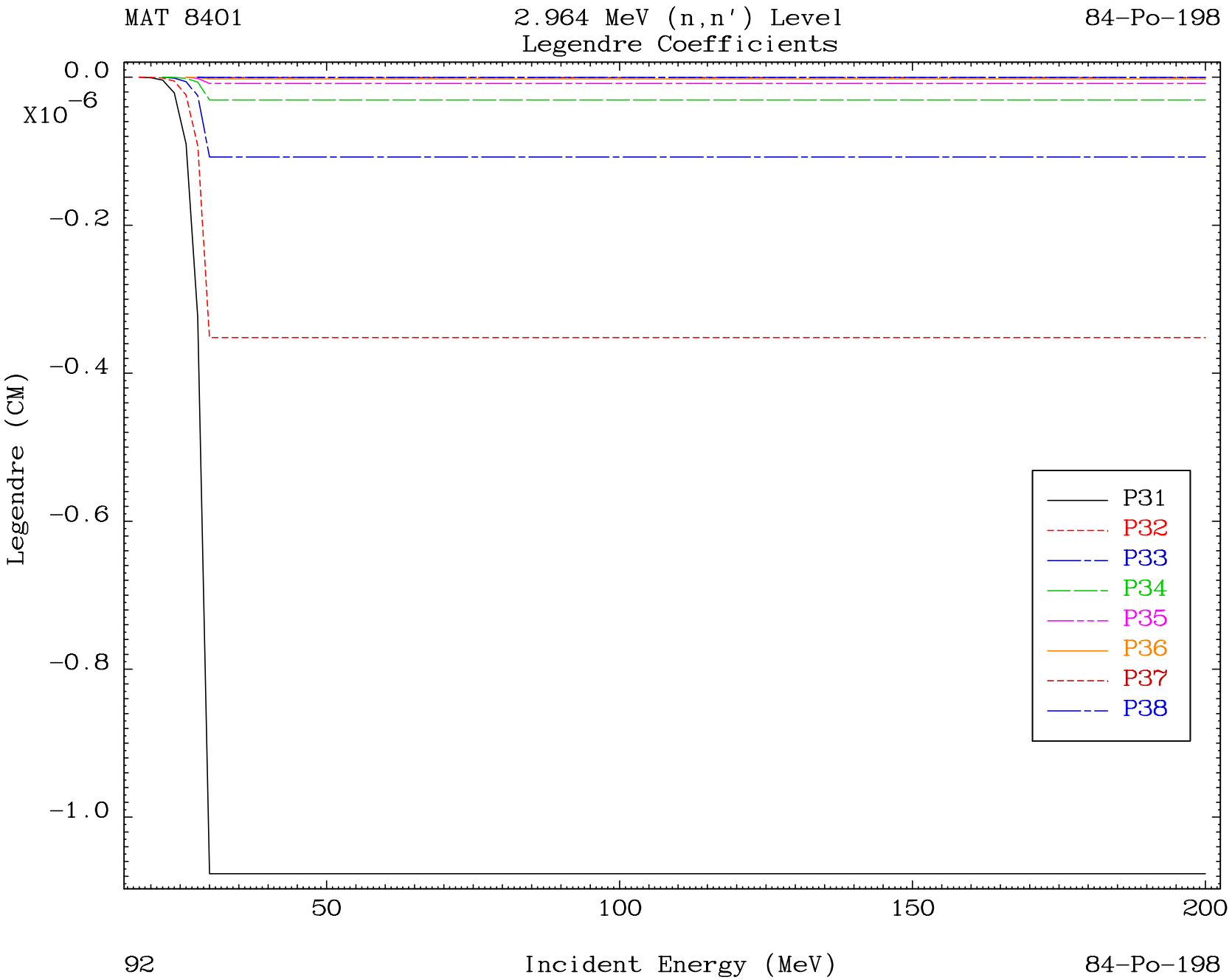

MAT 8401
2.900 MeV (n,n') Level
Legendre Coefficients
84-Po-198
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.008
0.006
0.004
0.002
0.000
-0.002
-0.004
Legendre (CM)
50
100
150
200
87
Incident Energy (MeV)
84-Po-198

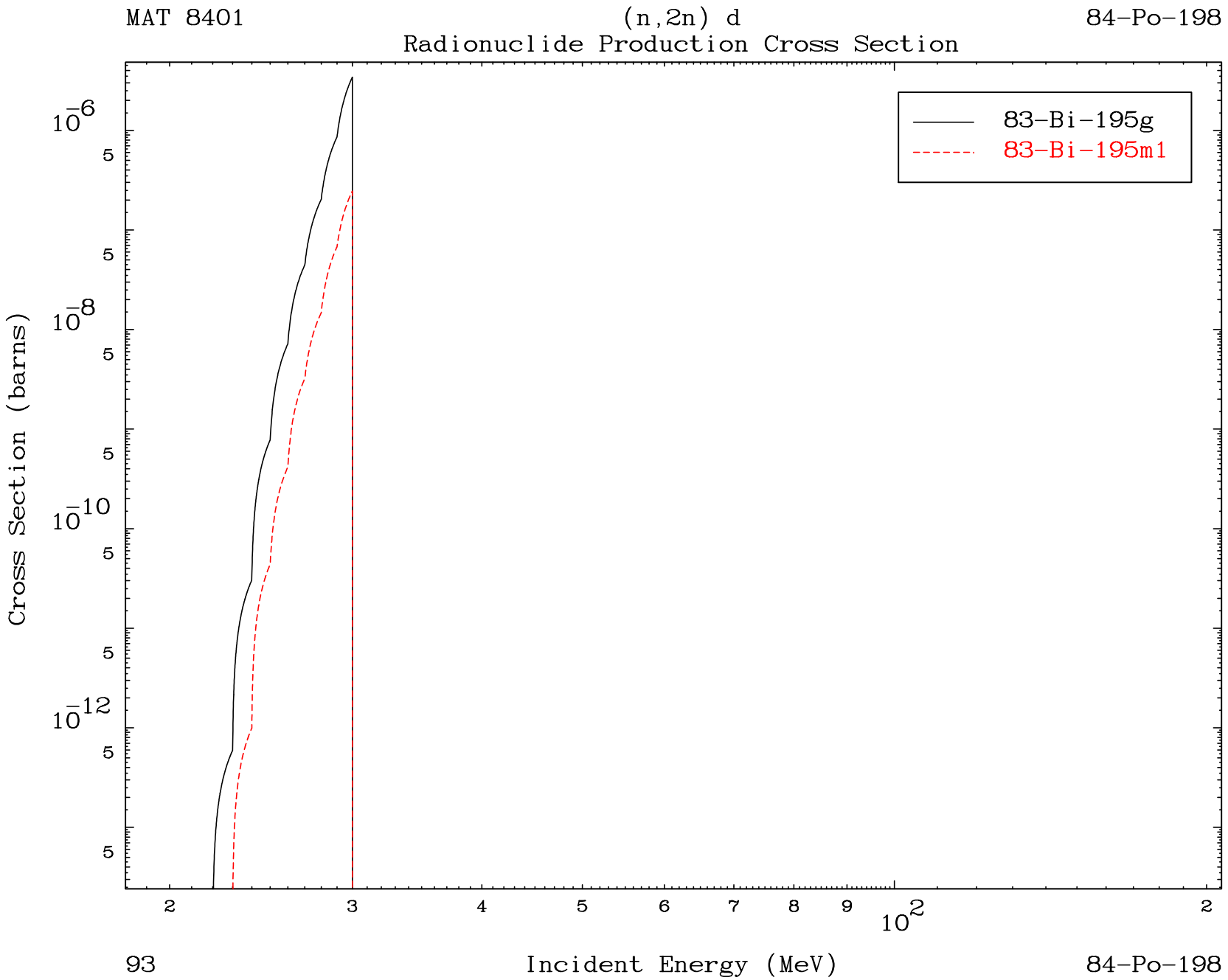

MAT 8401
2.900 MeV (n,n') Level
Legendre Coefficients
84-Po-198
X10 −6
5
4
3
2
1
0
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
50
100
150
200
88
Incident Energy (MeV)
84-Po-198

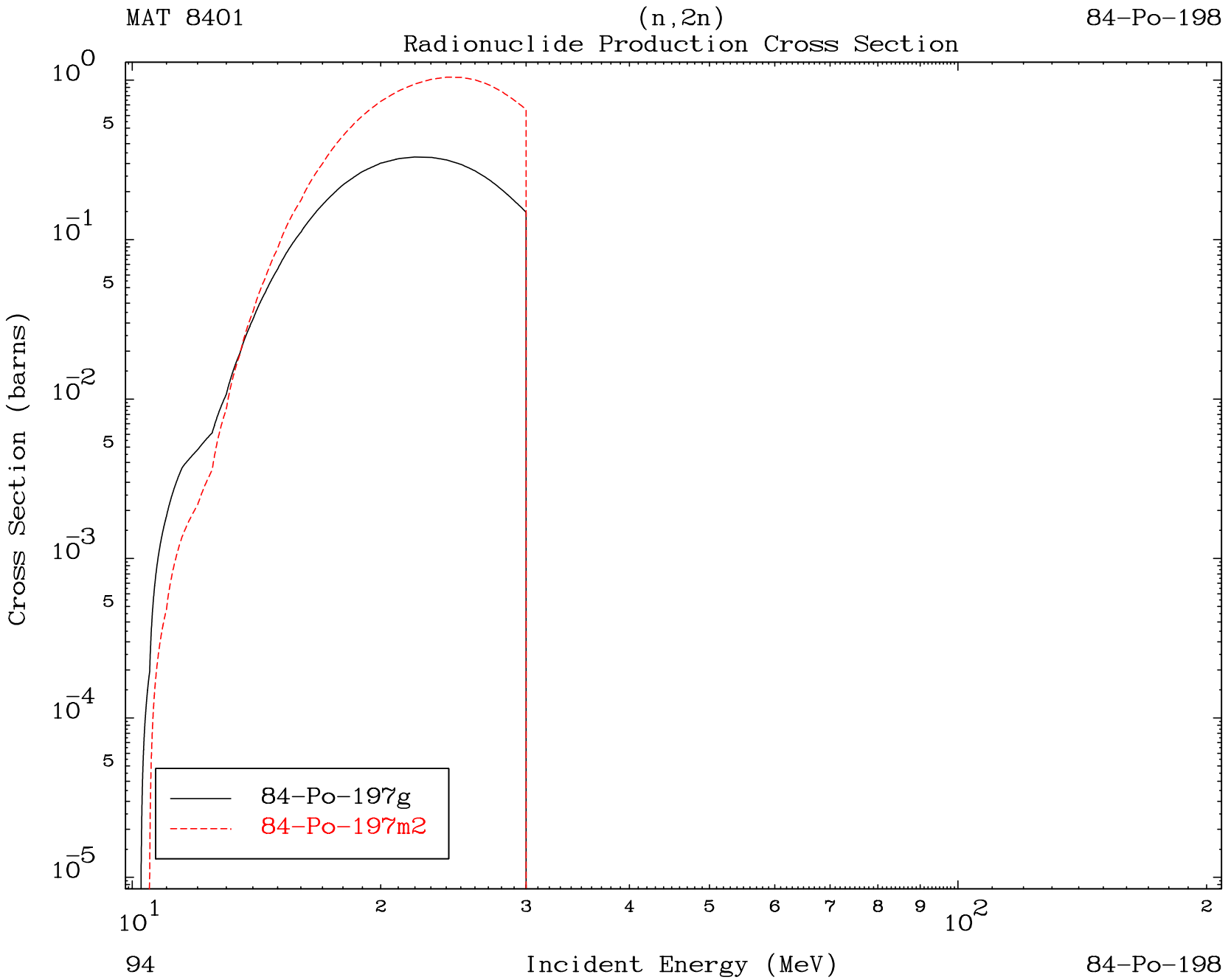

MAT 8401
2.964 MeV (n,n') Level
Legendre Coefficients
84-Po-198
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
89
Incident Energy (MeV)
84-Po-198

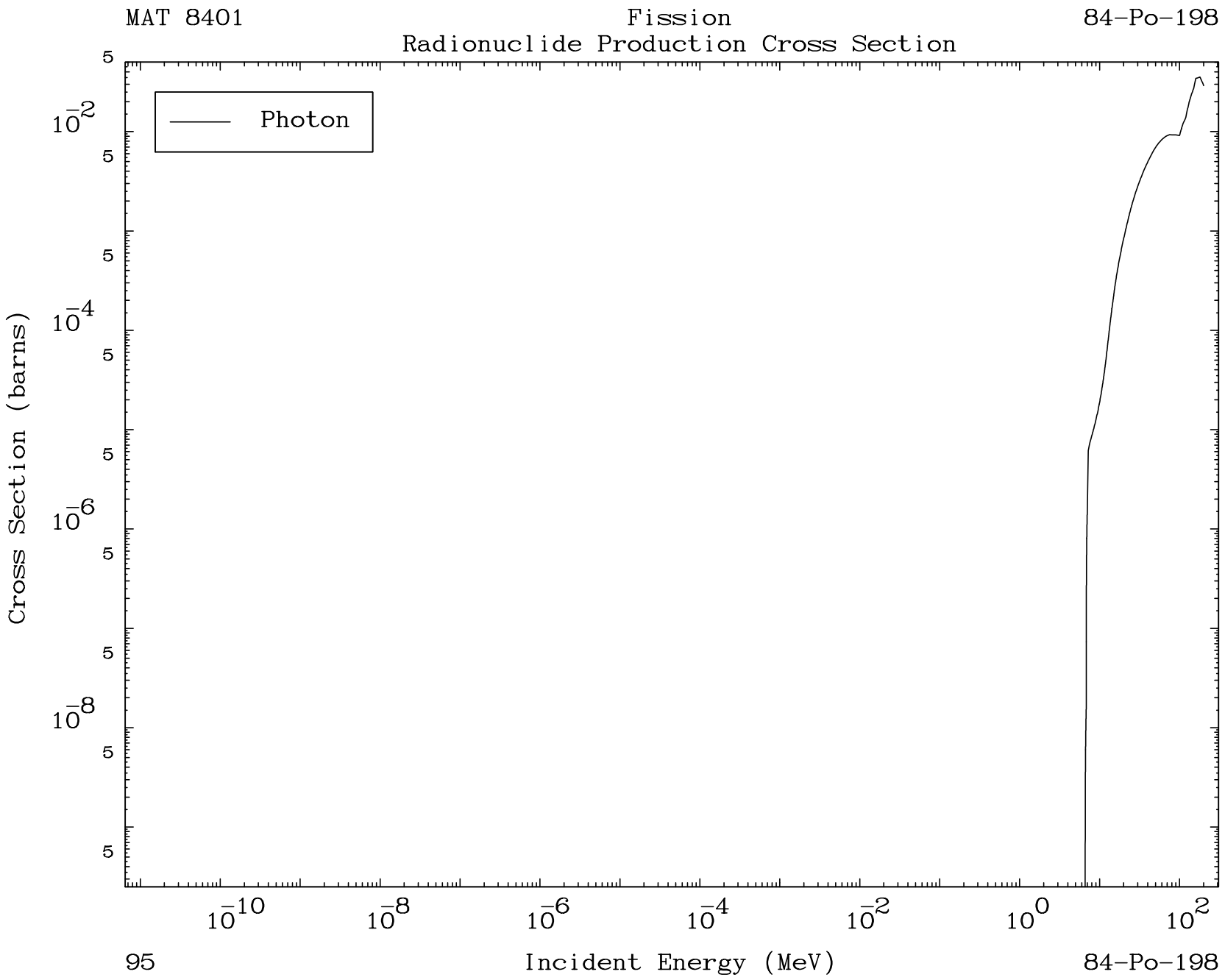

MAT 8401
2.964 MeV (n,n') Level
Legendre Coefficients
84-Po-198
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.06
0.04
0.02
0.00
-0.02
Legendre (CM)
50
100
150
200
90
Incident Energy (MeV)
84-Po-198

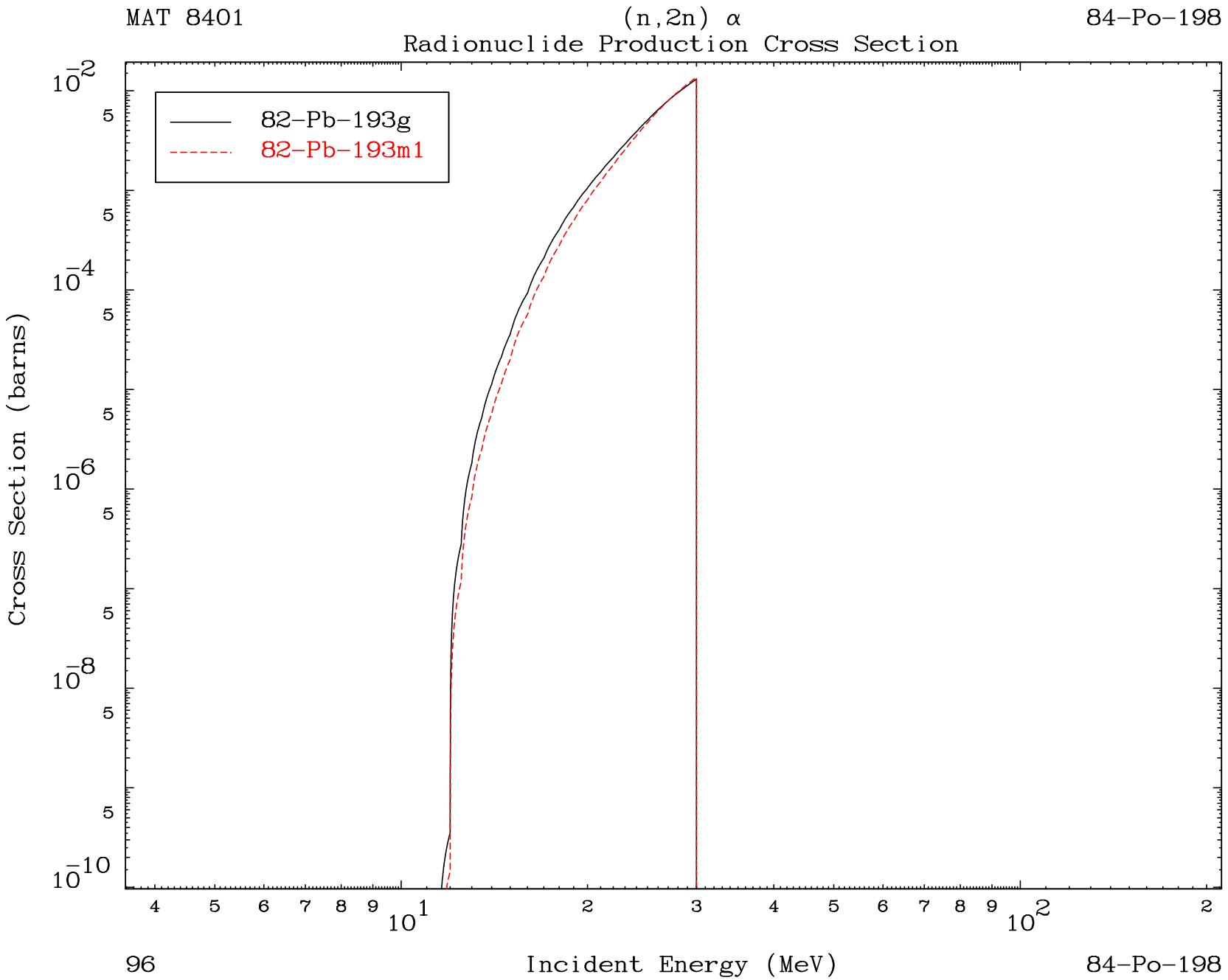

MAT 8401
2.964 MeV (n,n') Level
Legendre Coefficients
84-Po-198
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
0.002
0.000
-0.002
-0.004
Legendre (CM)
50
100
150
200
91
Incident Energy (MeV)
84-Po-198

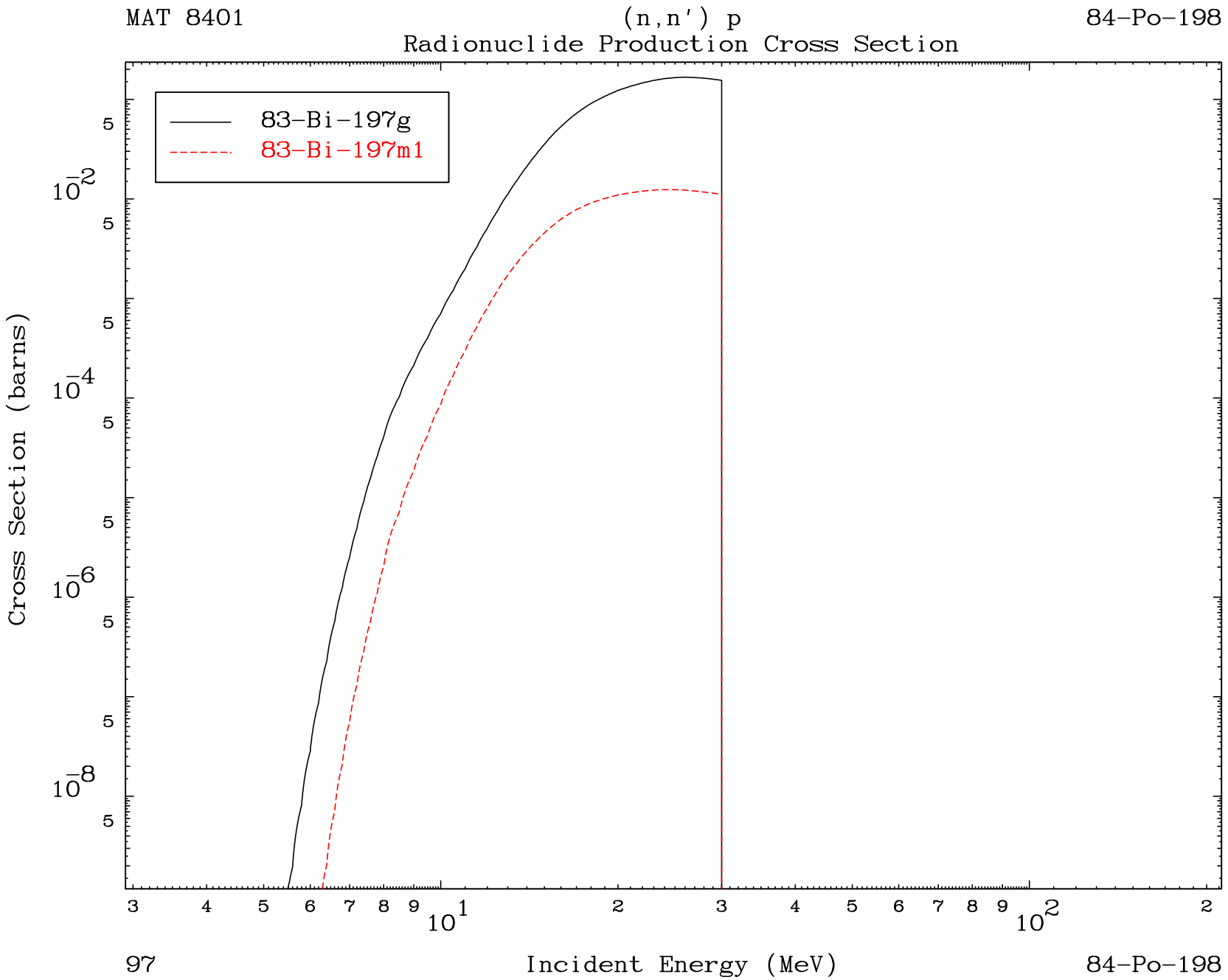

MAT 8401
2.964 MeV (n,n') Level
Legendre Coefficients
84-Po-198
0.0
X10^-6
-0.2
-0.4
-0.6
-0.8
-1.0
Legendre (CM)
50
100
150
200
92
Incident Energy (MeV)
84-Po-198
P31
P32
P33
P34
P35
P36
P37
P38

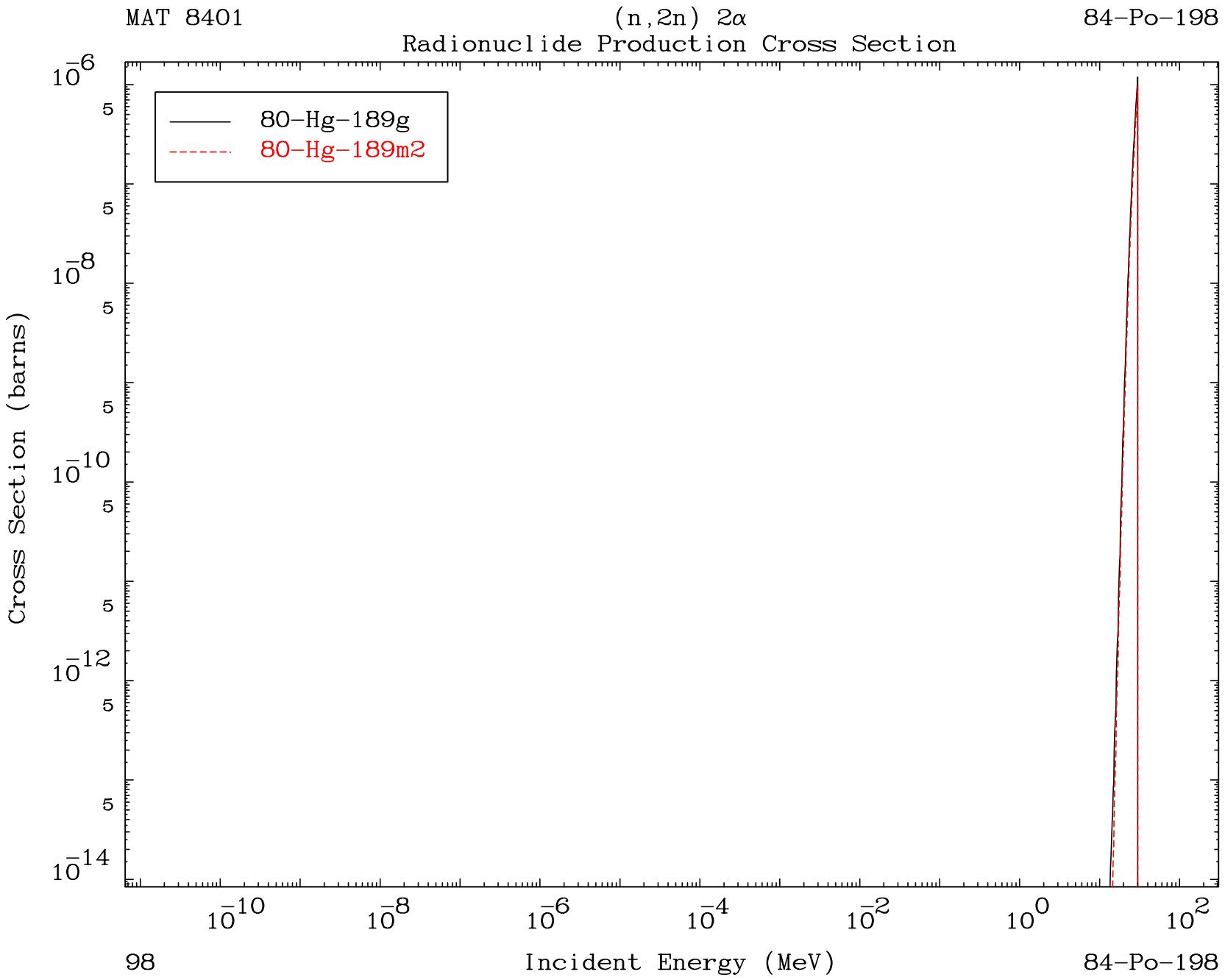

MAT 8401
(n,2n) d
84-Po-198
Radionuclide Production Cross Section
83-Bi-195g
83-Bi-195m1
Cross Section (barns)
10-6
10-8
10-10
10-12
5
2
3
4
5
6
7
8
9
10 2
2
93
Incident Energy (MeV)
84-Po-198

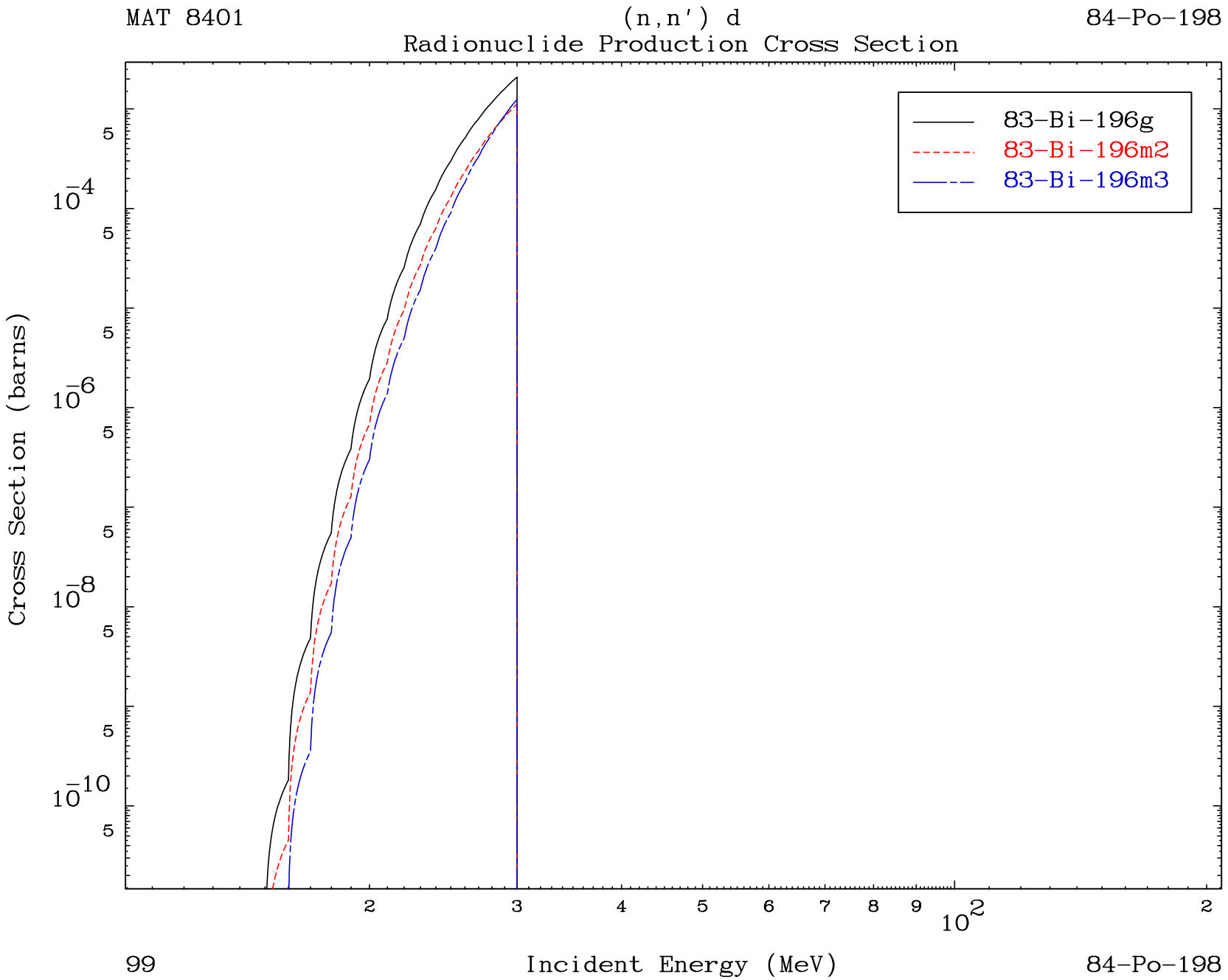

MAT 8401
(n,2n)
84-Po-198
Radionuclide Production Cross Section
Cross Section (barns)
Incident Energy (MeV)
84-Po-197g
84-Po-197m2
94
84-Po-198

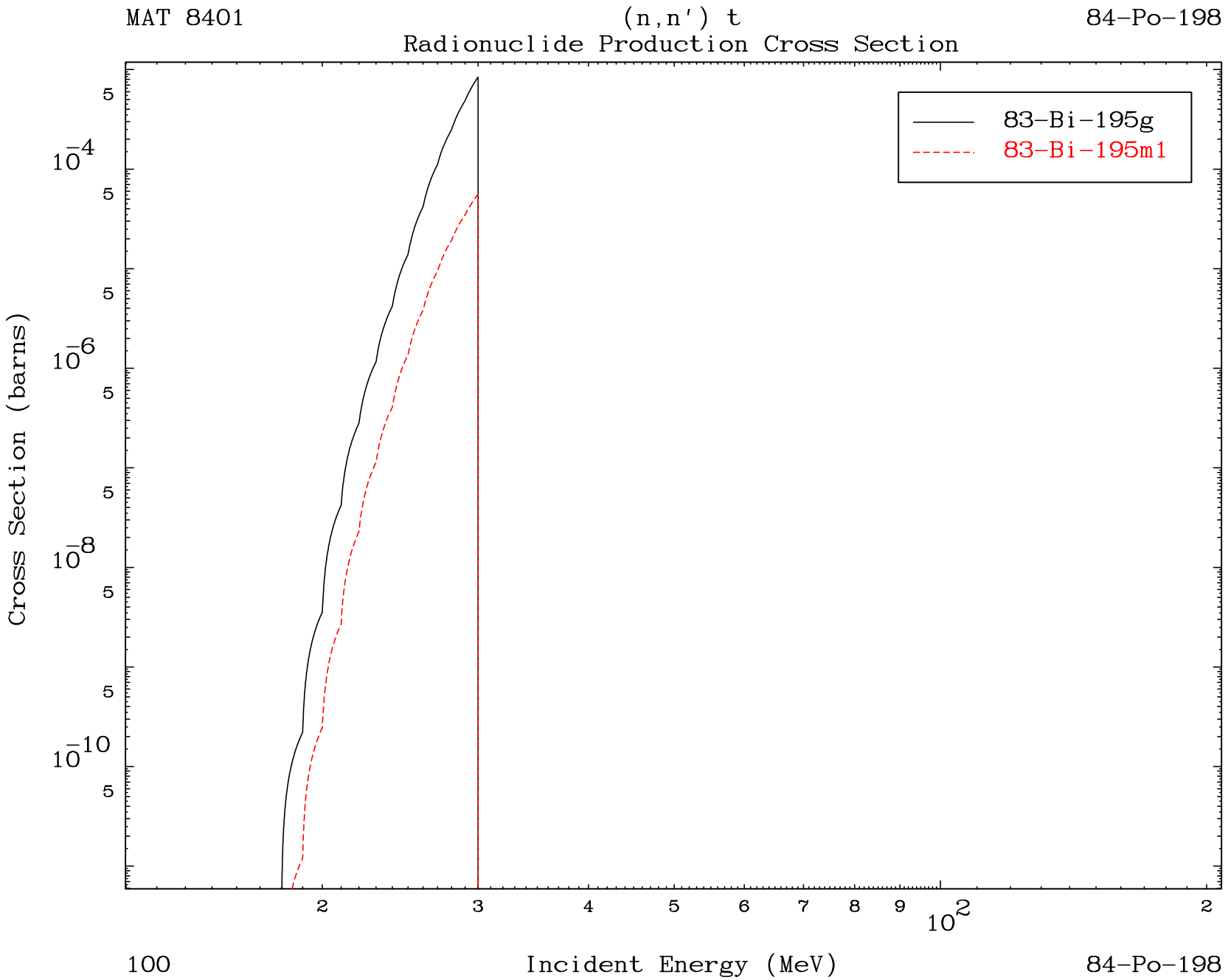

MAT 8401
Fission
84-Po-198
Radionuclide Production Cross Section
Photon
Cross Section (barns)
Incident Energy (MeV)
95
84-Po-198

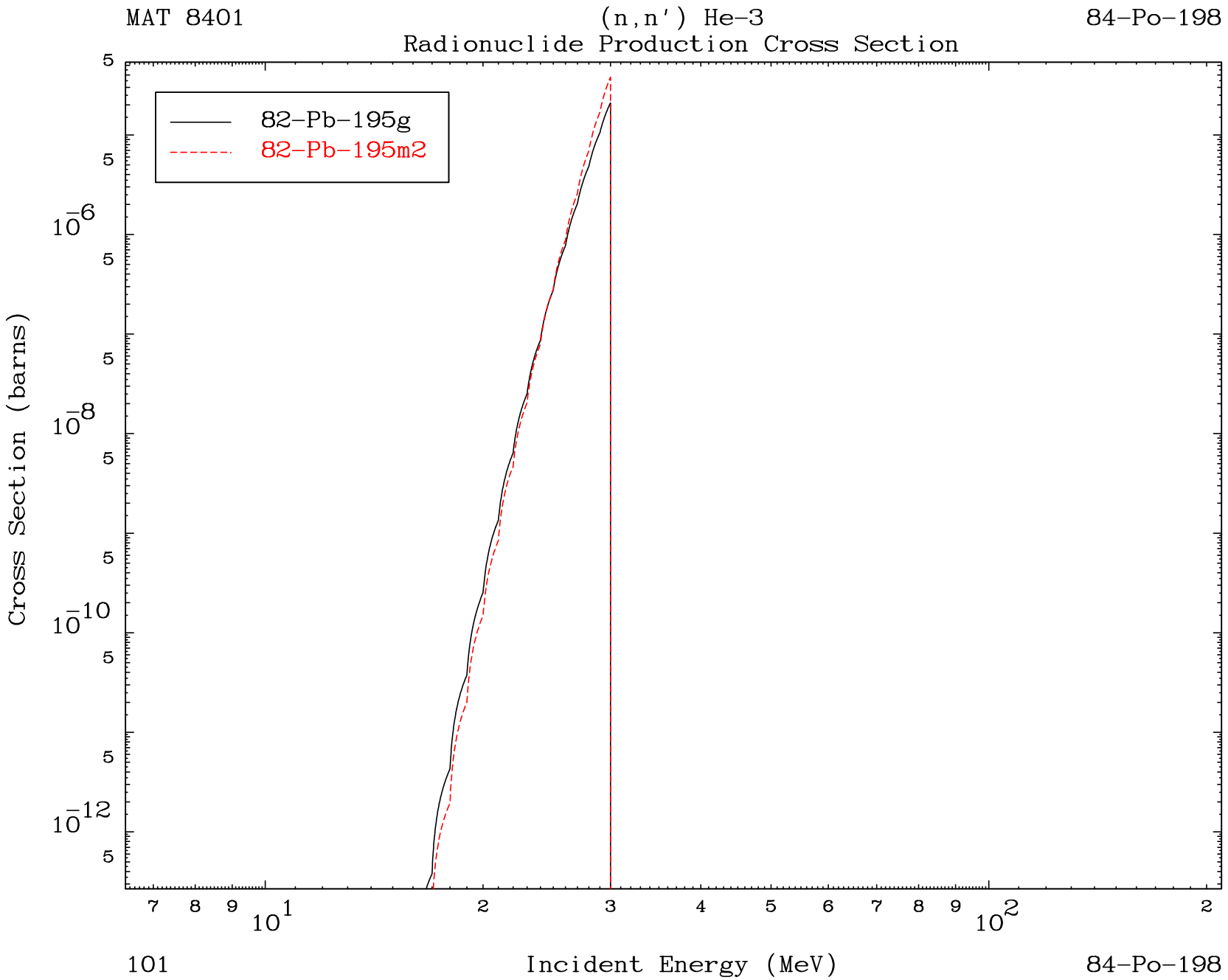

MAT 8401
(n,2n) α
84-Po-198
Radionuclide Production Cross Section
82-Pb-193g
82-Pb-193m1
Cross Section (barns)
Incident Energy (MeV)
96
84-Po-198

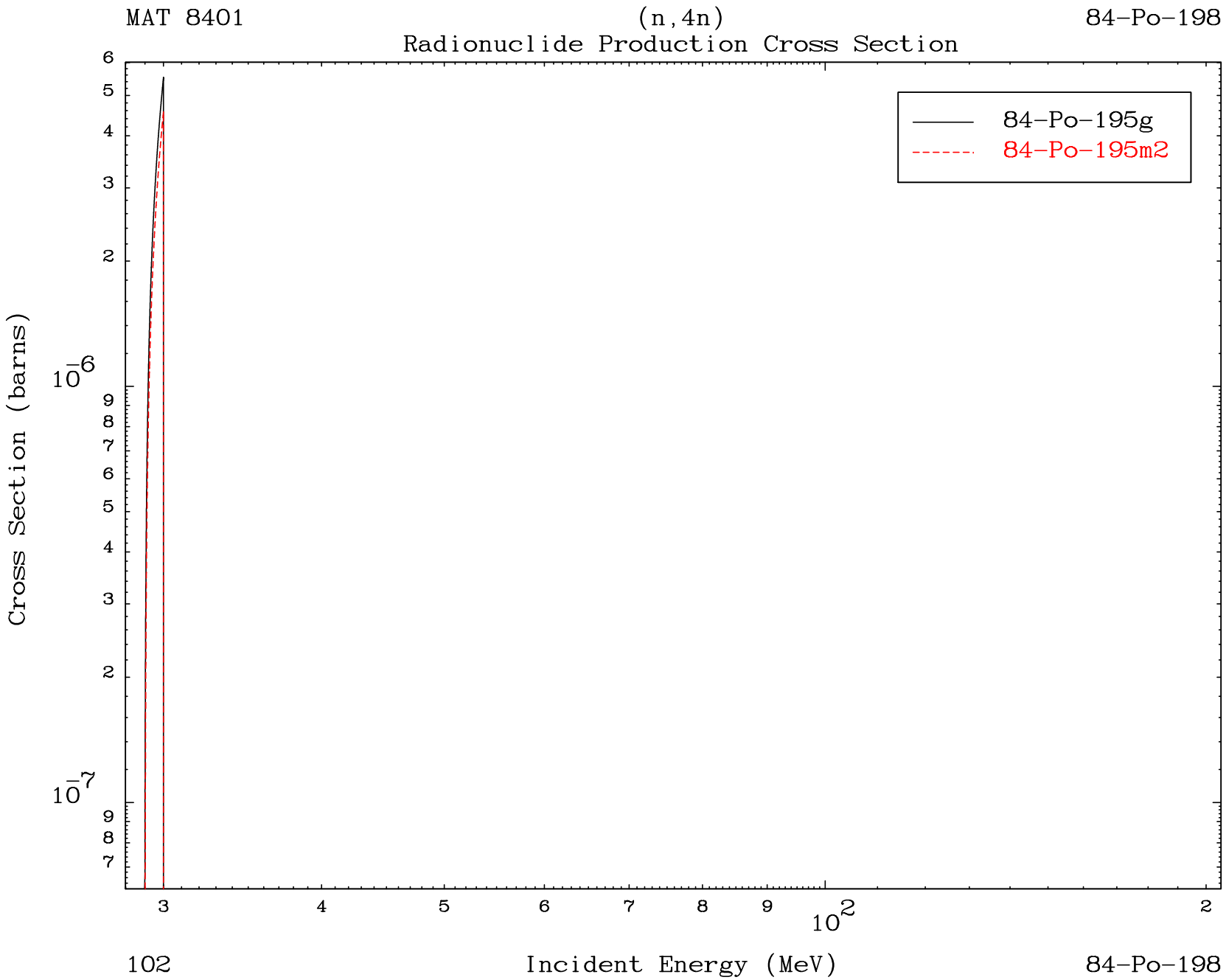

MAT 8401
(n,n') p
84-Po-198
Radionuclide Production Cross Section
83-Bi-197g
83-Bi-197m1
Cross Section (barns)
10-2
10-4
10-6
10-8
3 4 5 6 7 8 9 10 1 2 3 4 5 6 7 8 9 10 2 2
97
Incident Energy (MeV)
84-Po-198

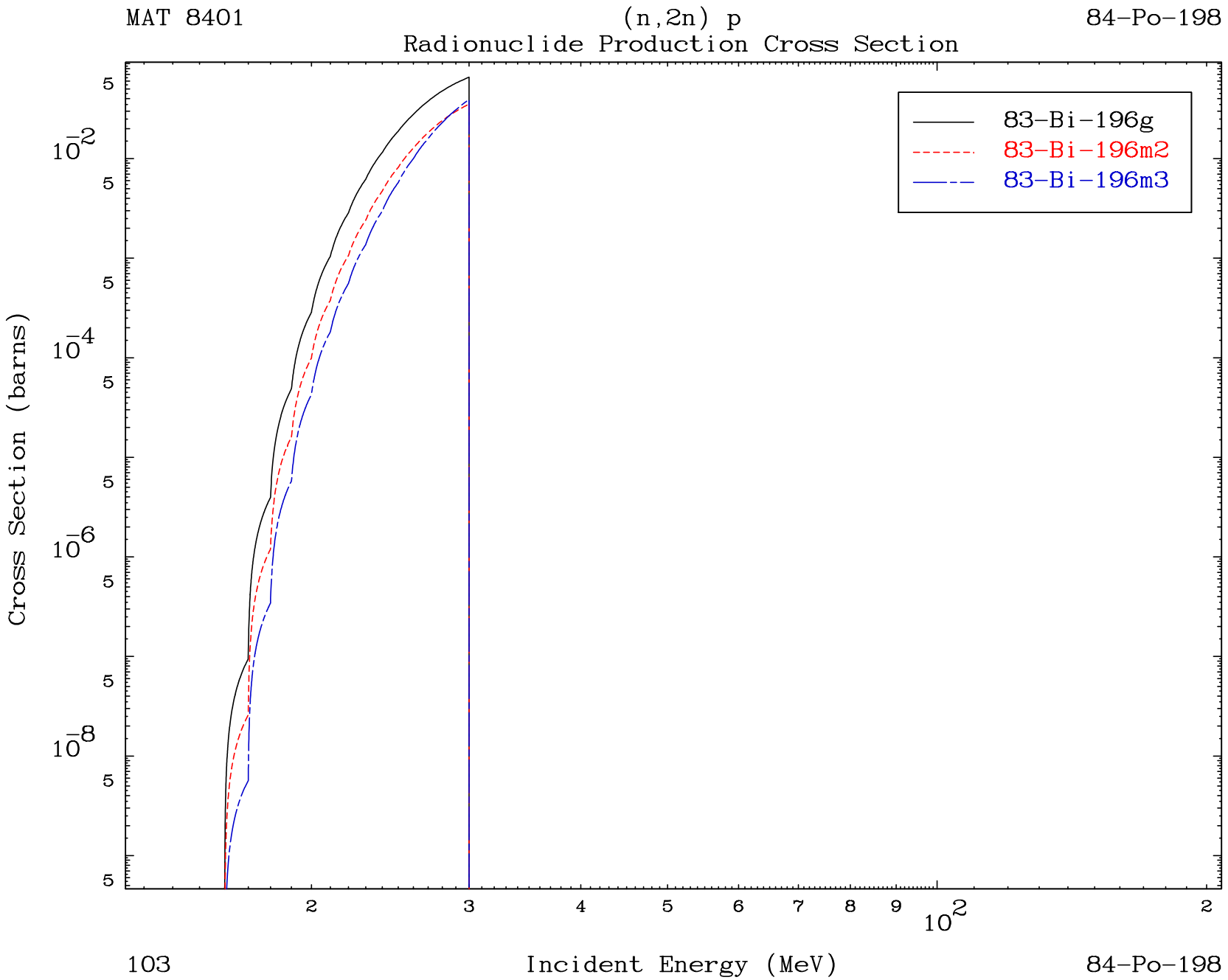

MAT 8401
(n,2n) 2α
84-Po-198
Radionuclide Production Cross Section
80-Hg-189g
80-Hg-189m2
Cross Section (barns)
Incident Energy (MeV)
98
84-Po-198

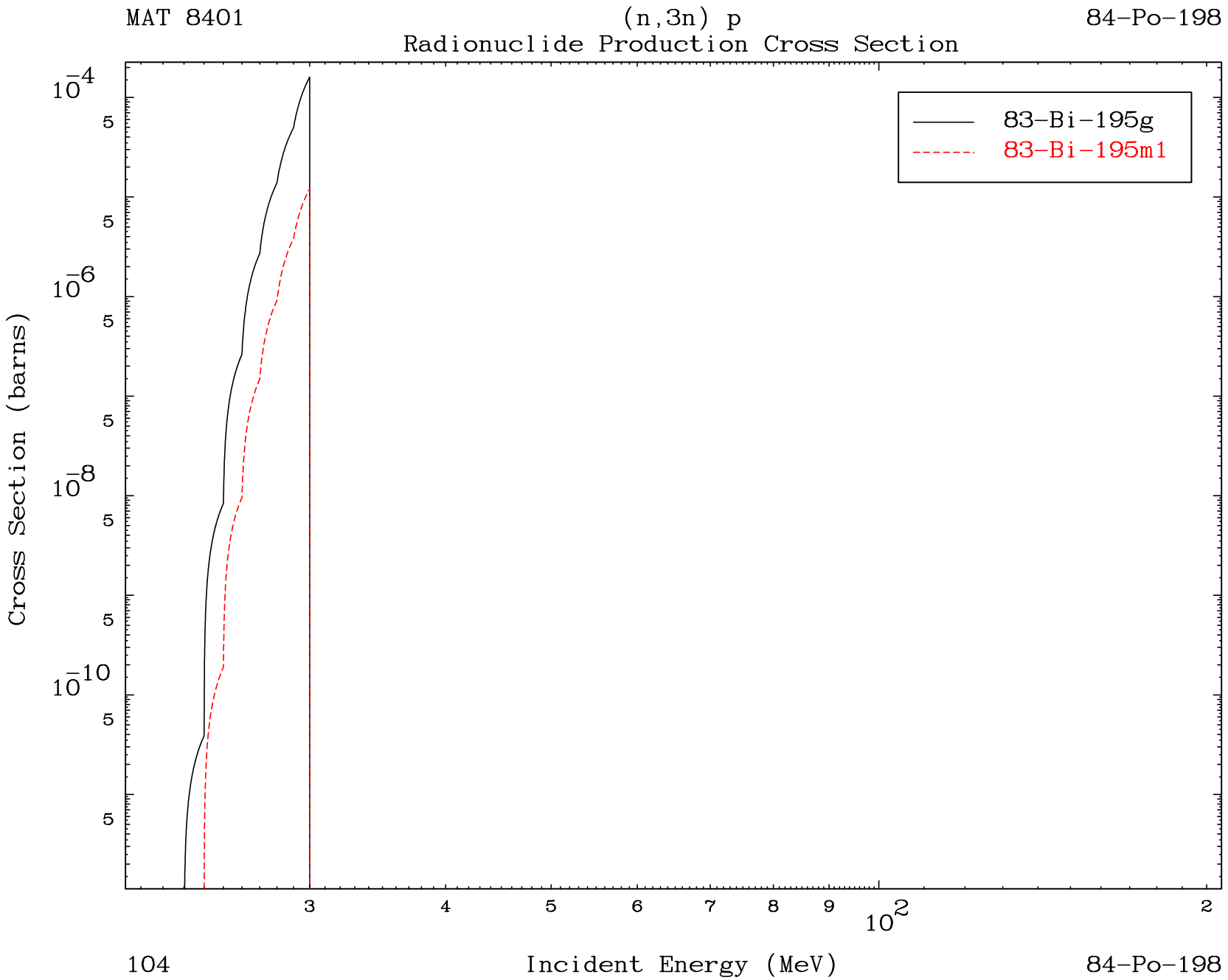

MAT 8401
(n,n') d
84-Po-198
Radionuclide Production Cross Section
83-Bi-196g
83-Bi-196m2
83-Bi-196m3
Cross Section (barns)
10-4
10-6
10-8
10-10
2
3
4
5
6
7
8
9
10 2
99
Incident Energy (MeV)
84-Po-198

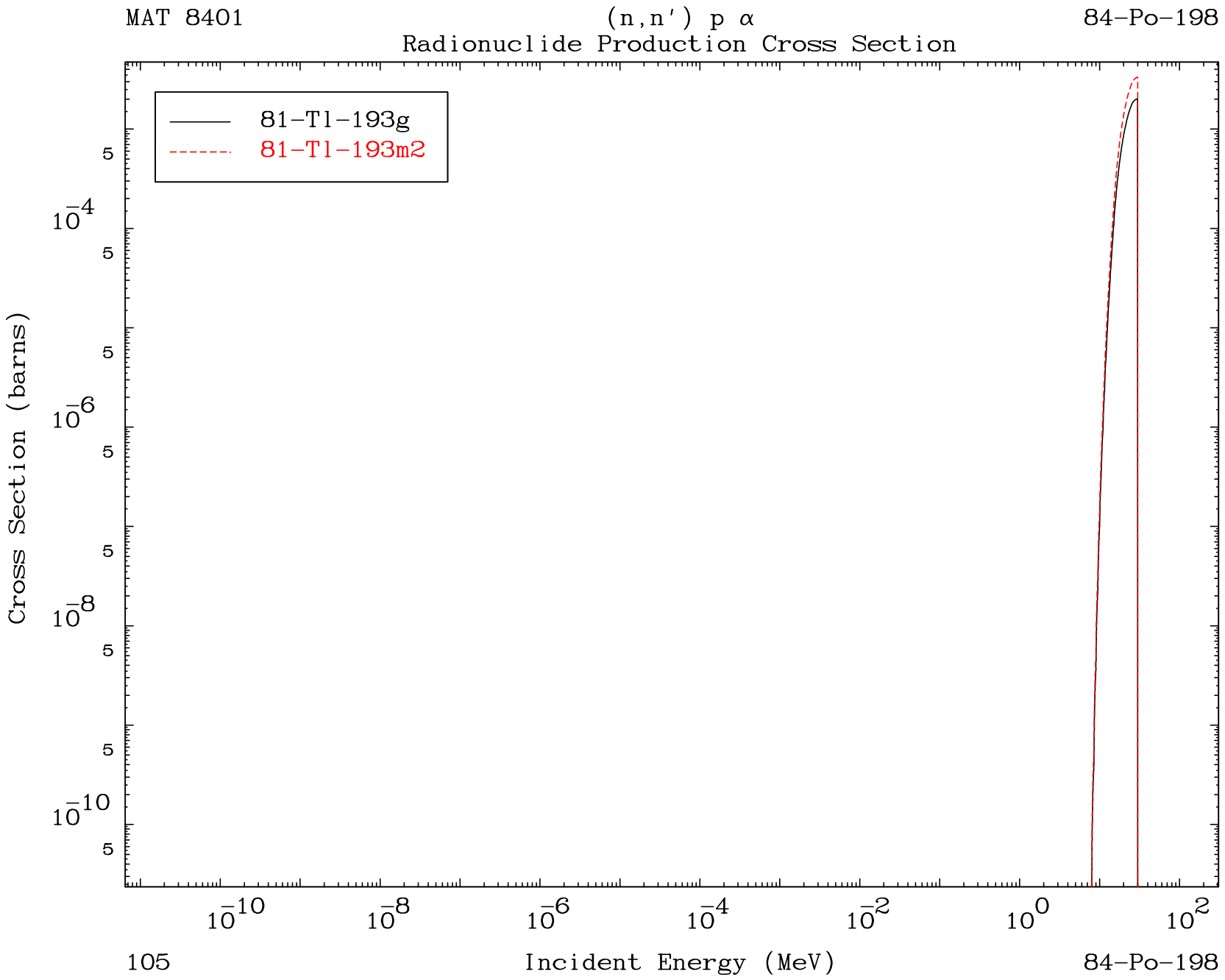

MAT 8401
(n,n') t
84-Po-198
Radionuclide Production Cross Section
83-Bi-195g
83-Bi-195m1
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
2
3
4
5
6
7
8
9
10^2
2
100
Incident Energy (MeV)
84-Po-198

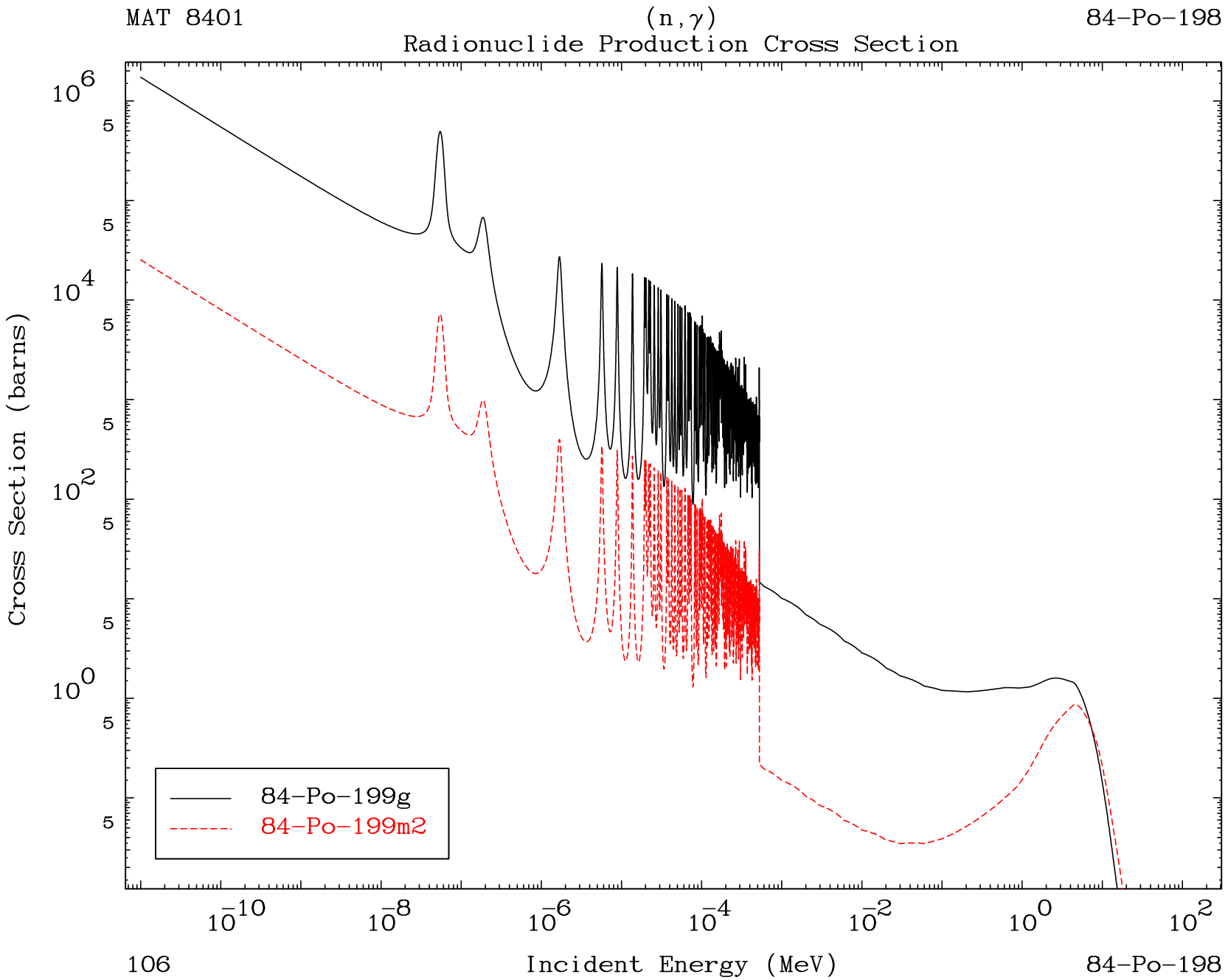

MAT 8401
(n,n') He-3
84-Po-198
Radionuclide Production Cross Section
82-Pb-195g
82-Pb-195m2
Cross Section (barns)
Incident Energy (MeV)
101
84-Po-198

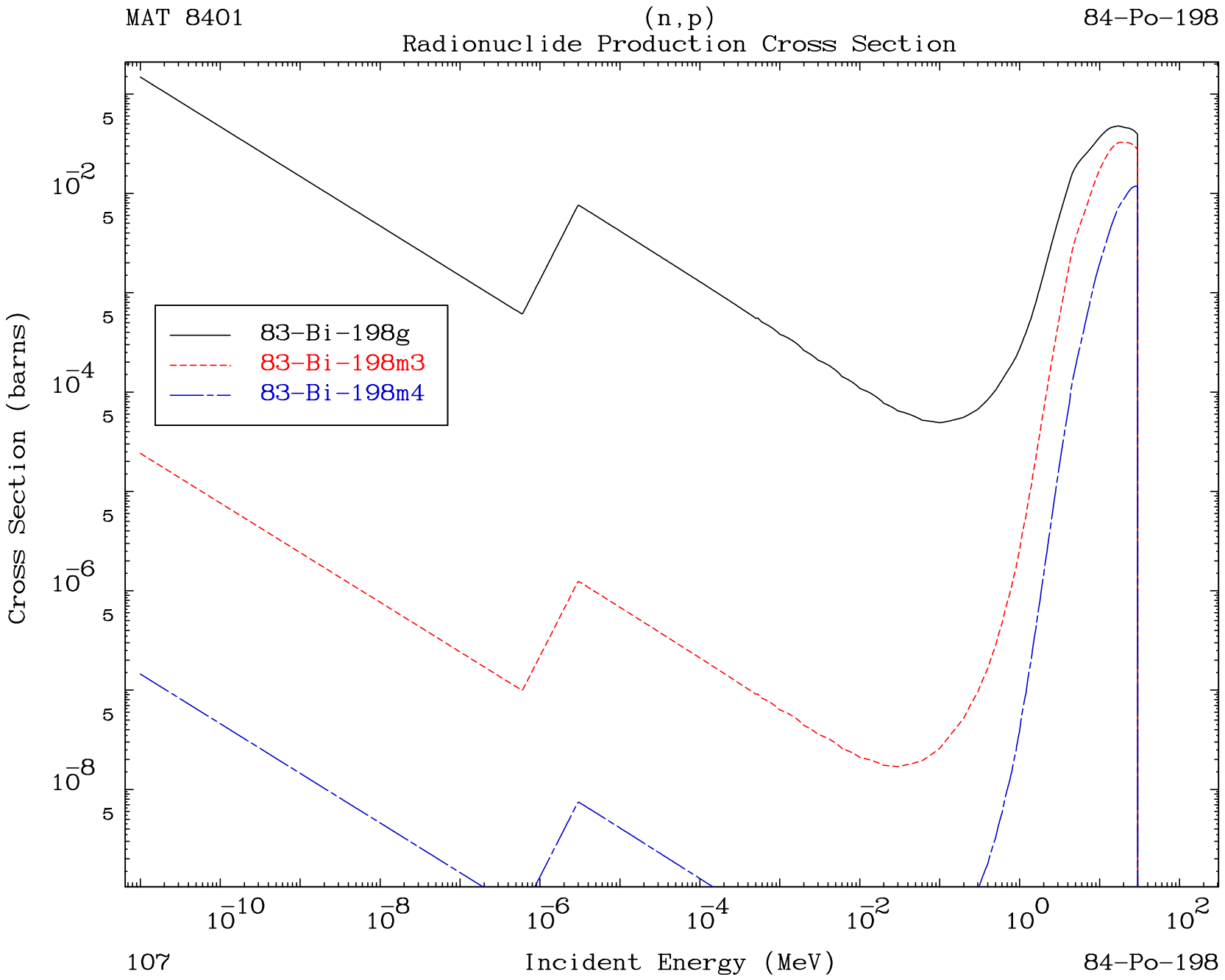

MAT 8401
(n,4n)
84-Po-198
Radionuclide Production Cross Section
84-Po-195g
84-Po-195m2
Cross Section (barns)
Incident Energy (MeV)
102
84-Po-198

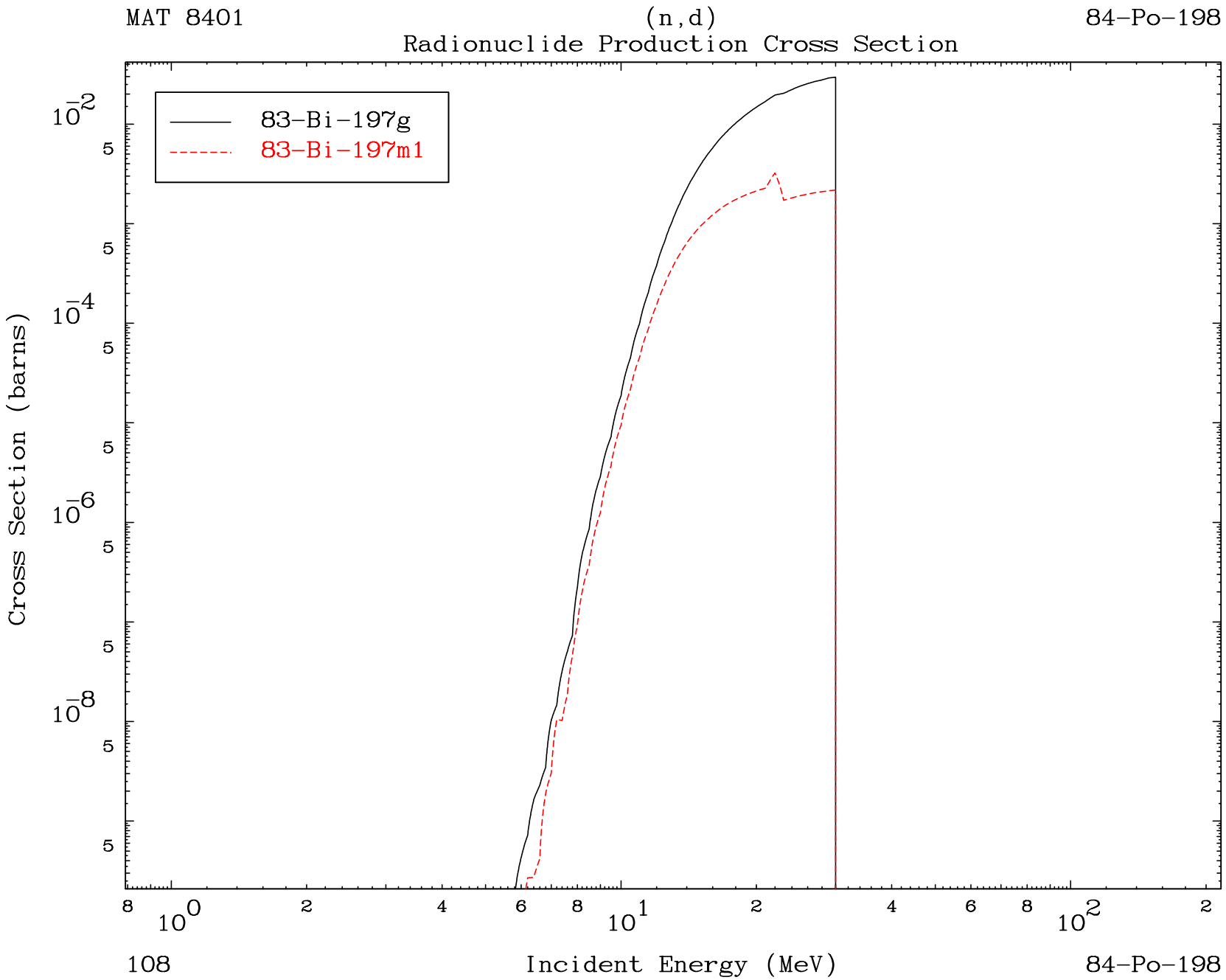

MAT 8401
(n,2n) p
84-Po-198
Radionuclide Production Cross Section
83-Bi-196g
83-Bi-196m2
83-Bi-196m3
Cross Section (barns)
Incident Energy (MeV)
103
84-Po-198

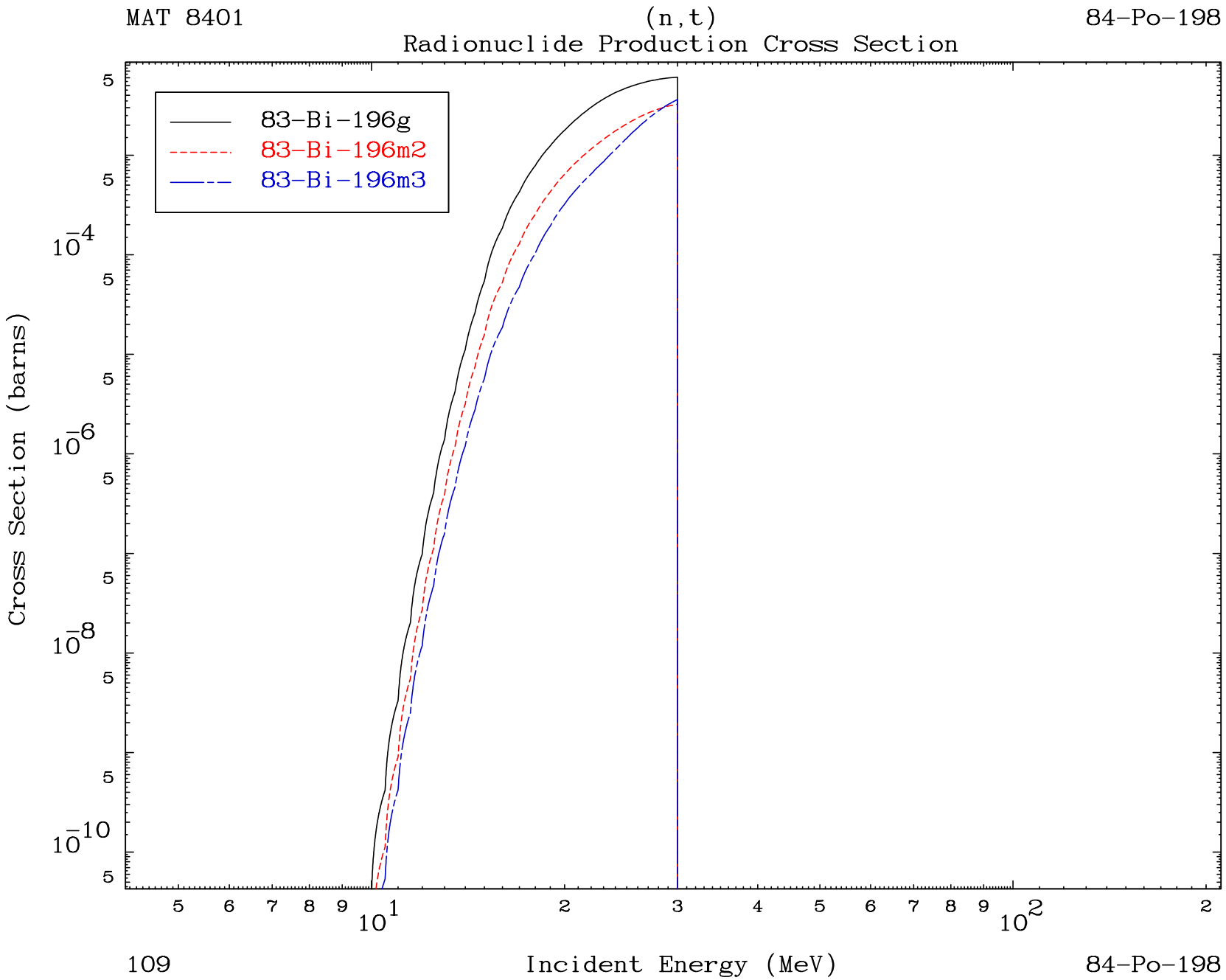

MAT 8401
(n,3n) p
84-Po-198
Radionuclide Production Cross Section
83-Bi-195g
83-Bi-195m1
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
3
4
5
6
7
8
9
10^2
2
104
Incident Energy (MeV)
84-Po-198

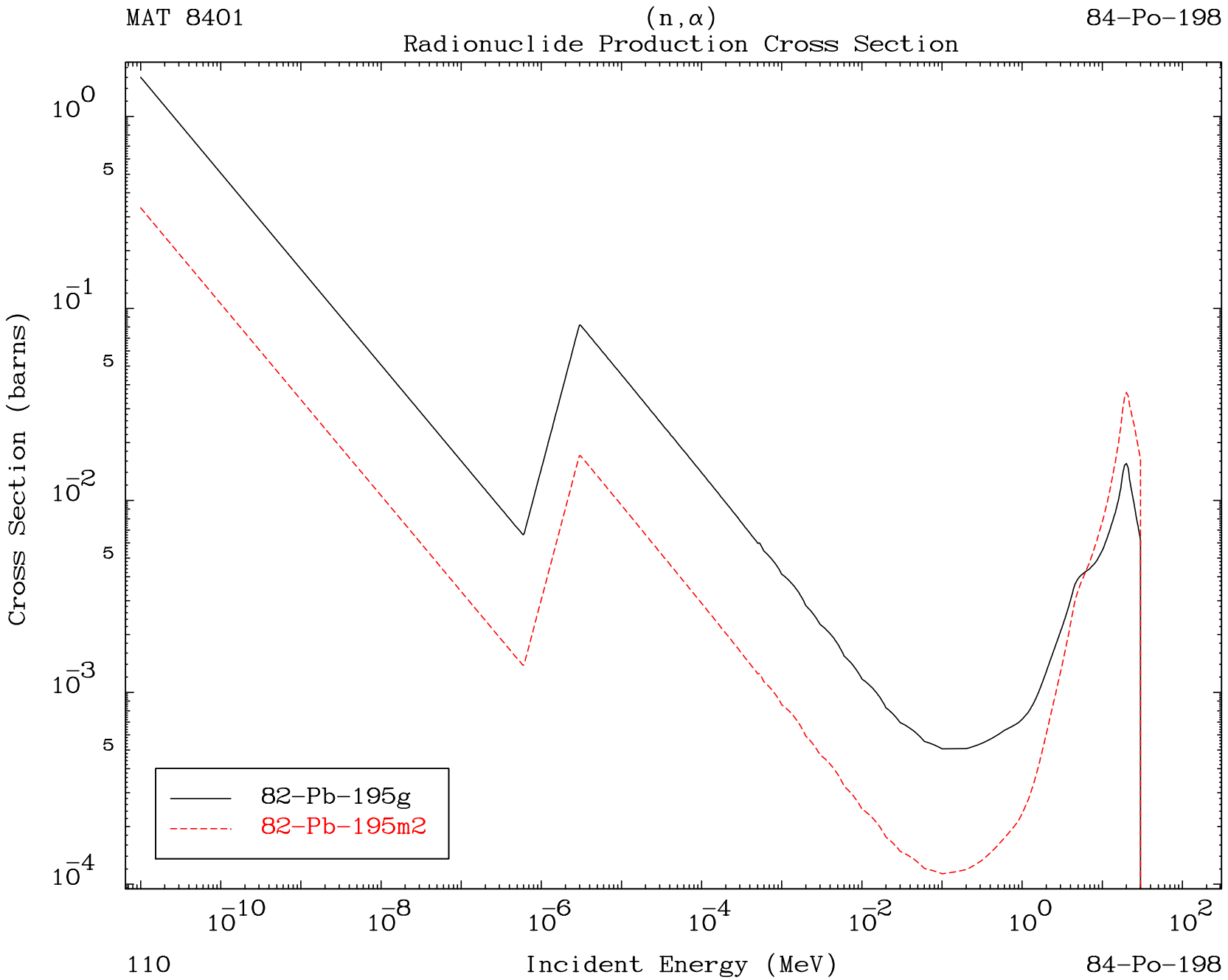

MAT 8401
(n,n') p α
84-Po-198
Radionuclide Production Cross Section
81-Tl-193g
81-Tl-193m2
Cross Section (barns)
Incident Energy (MeV)
105
84-Po-198

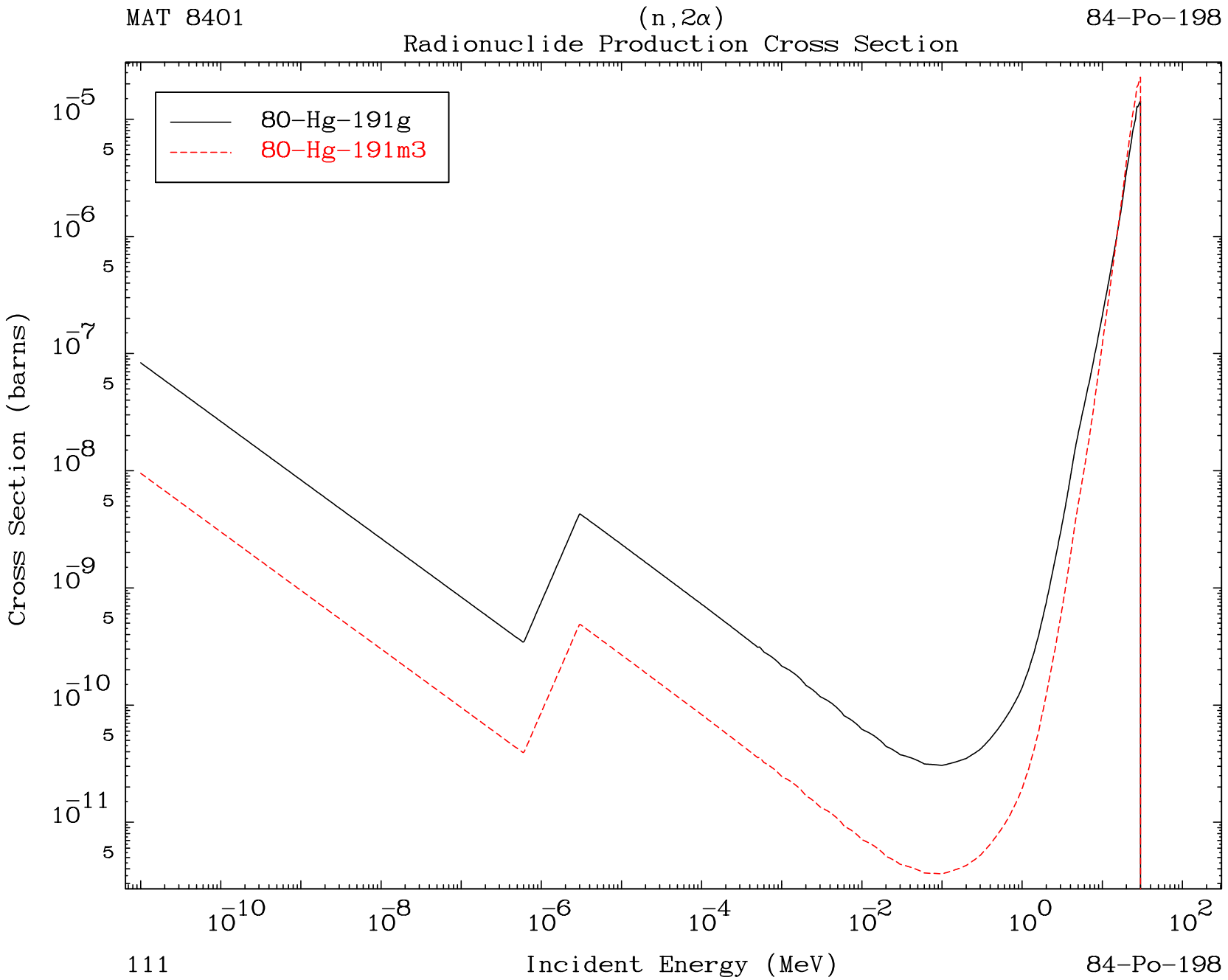

MAT 8401
(n,γ)
84-Po-198
Radionuclide Production Cross Section
Cross Section (barns)
10^6
10^4
10^2
10^0
5
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
84-Po-199g
84-Po-199m2
106
Incident Energy (MeV)
84-Po-198

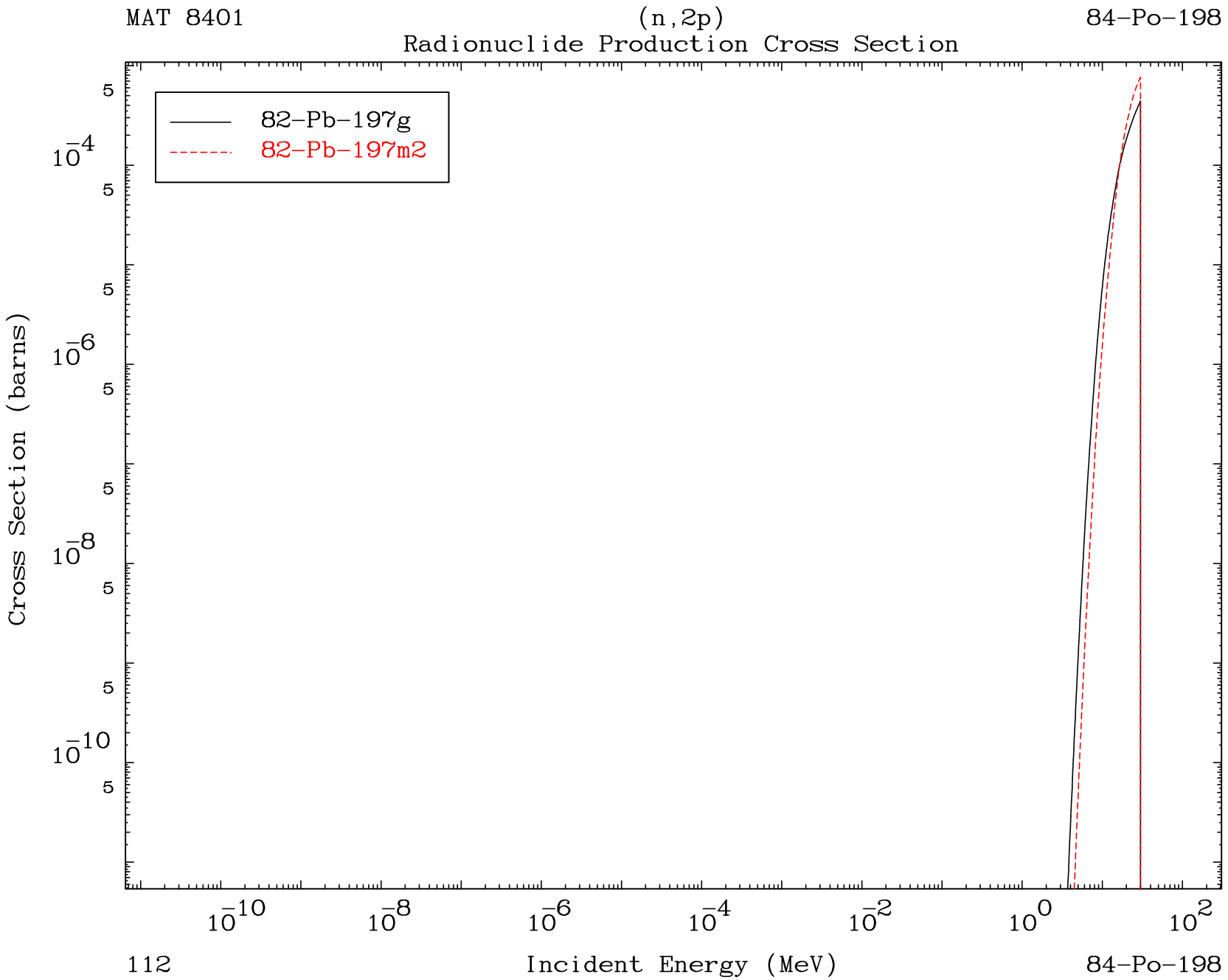

MAT 8401
(n,p)
84-Po-198
Radionuclide Production Cross Section
Cross Section (barns)
83-Bi-198g
83-Bi-198m3
83-Bi-198m4
Incident Energy (MeV)
107
84-Po-198

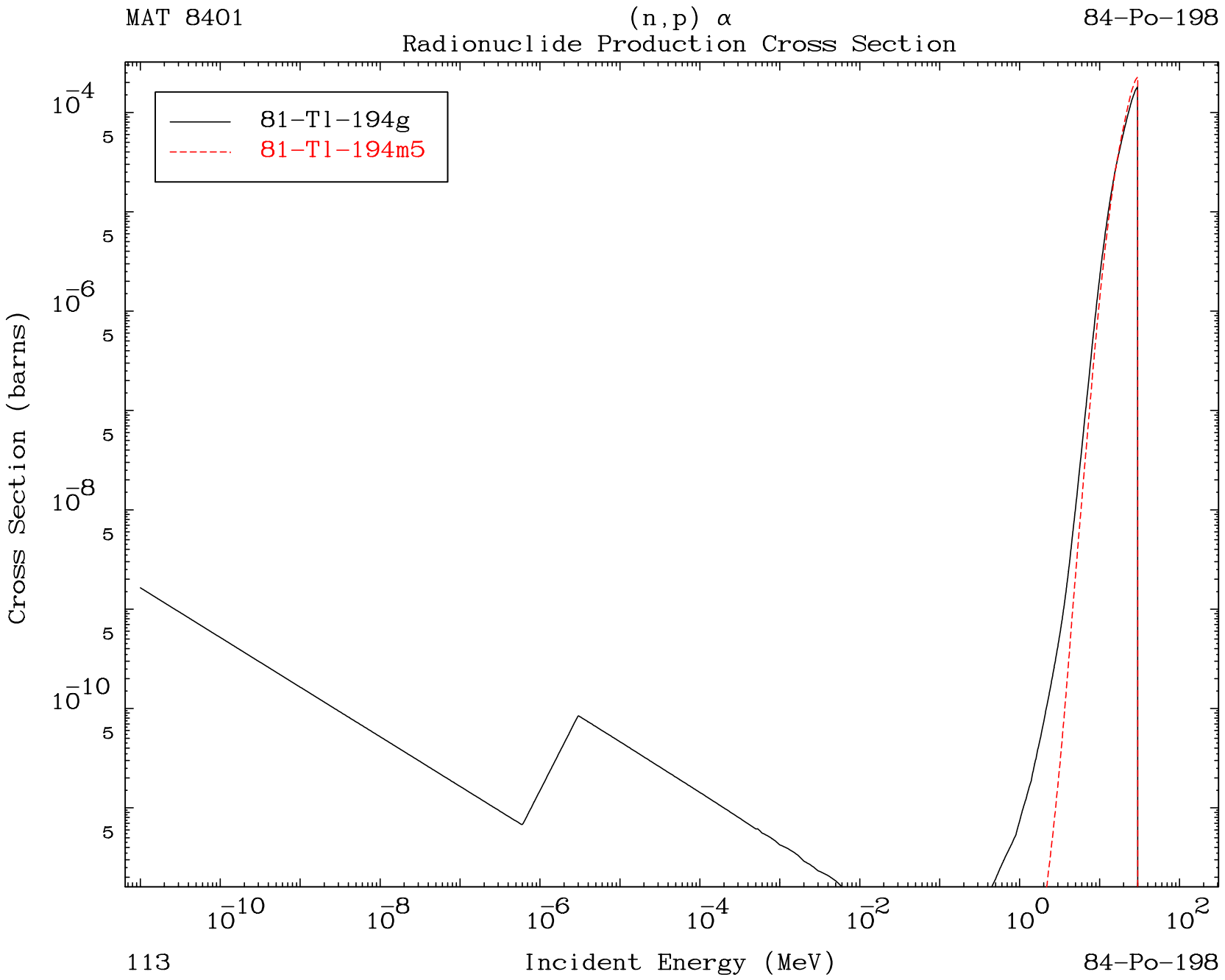

MAT 8401
(n,d)
84-Po-198
Radionuclide Production Cross Section
83-Bi-197g
83-Bi-197m1
Cross Section (barns)
Incident Energy (MeV)
108
84-Po-198

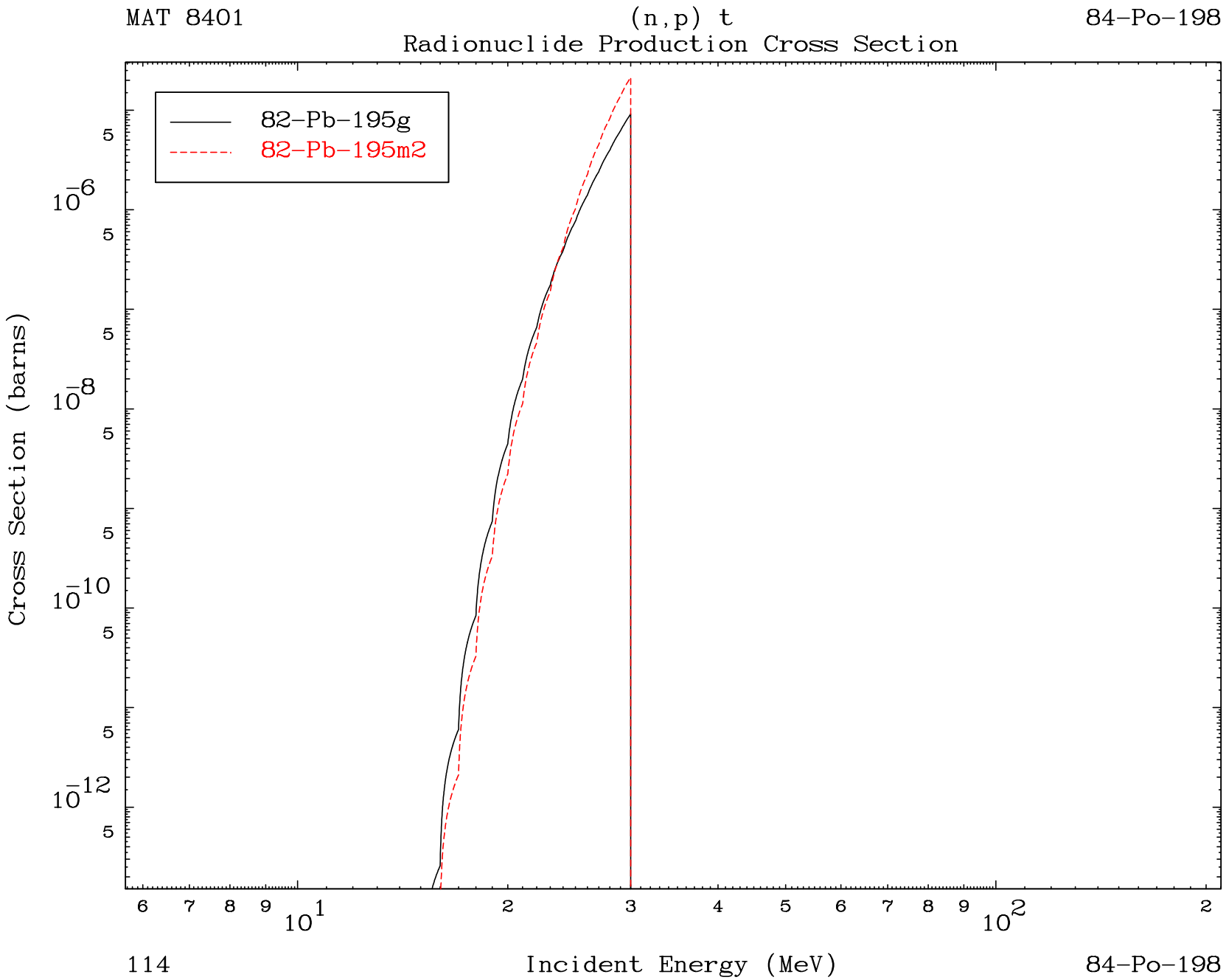

MAT 8401
(n,t)
84-Po-198
Radionuclide Production Cross Section
83-Bi-196g
83-Bi-196m2
83-Bi-196m3
Cross Section (barns)
Incident Energy (MeV)
109
84-Po-198

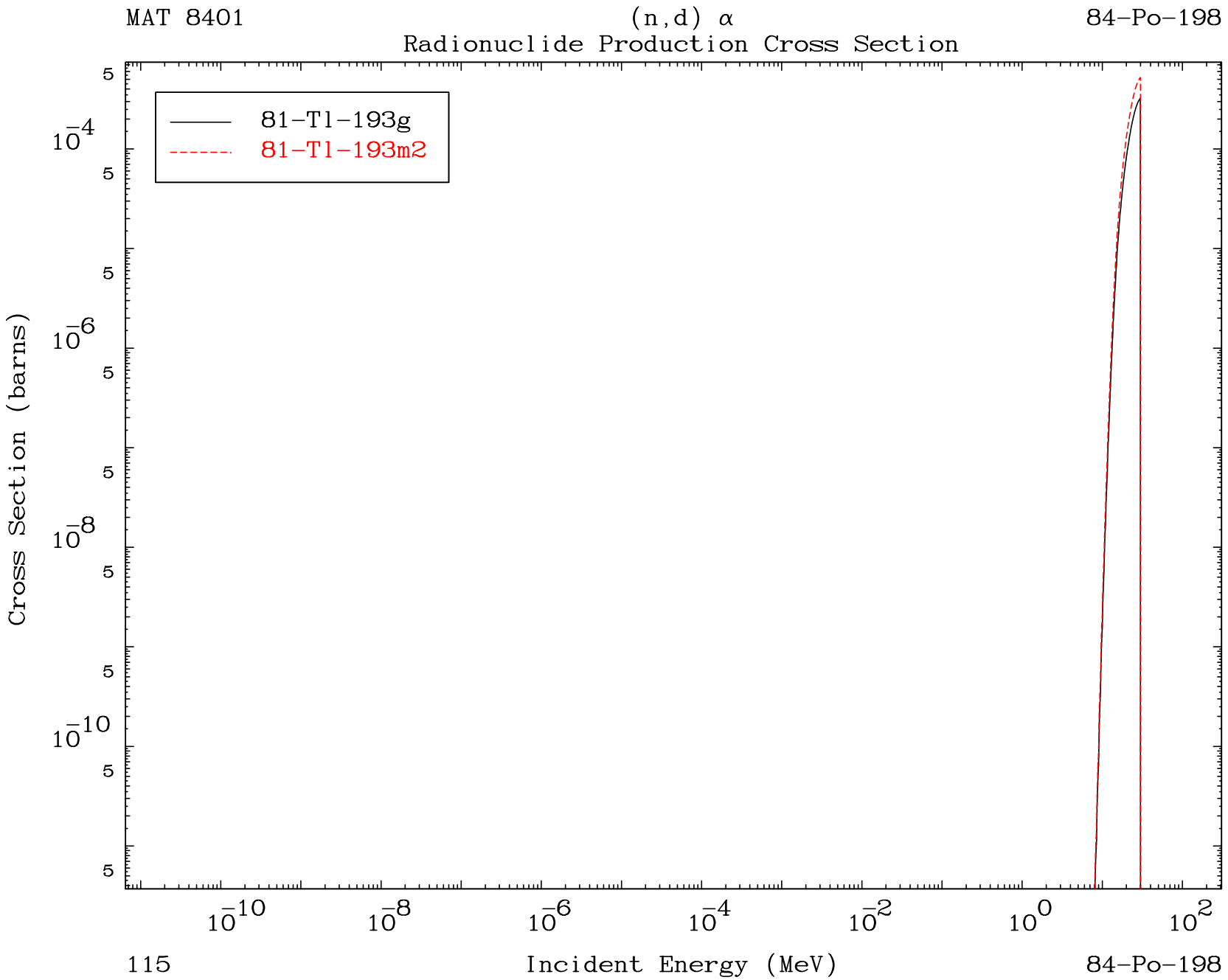

MAT 8401
(n,α)
84-Po-198
Radionuclide Production Cross Section
Cross Section (barns)
10^0
5
10^-1
5
10^-2
5
10^-3
5
10^-4
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
82-Pb-195g
82-Pb-195m2
110
Incident Energy (MeV)
84-Po-198


MAT 8401
(n,2α)
84-Po-198
Radionuclide Production Cross Section
80-Hg-191g
80-Hg-191m3
Cross Section (barns)
Incident Energy (MeV)
111
84-Po-198


MAT 8401
(n,2p)
84-Po-198
Radionuclide Production Cross Section
82-Pb-197g
82-Pb-197m2
Cross Section (barns)
Incident Energy (MeV)
112
84-Po-198


MAT 8401
(n,p) α
84-Po-198
Radionuclide Production Cross Section
81-Tl-194g
81-Tl-194m5
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
113
Incident Energy (MeV)
84-Po-198


MAT 8401
(n,p) t
84-Po-198
Radionuclide Production Cross Section
82-Pb-195g
82-Pb-195m2
Cross Section (barns)
Incident Energy (MeV)
114
84-Po-198


MAT 8401
(n,d) α
84-Po-198
Radionuclide Production Cross Section
81-Tl-193g
81-Tl-193m2
Cross Section (barns)
Incident Energy (MeV)
115
84-Po-198