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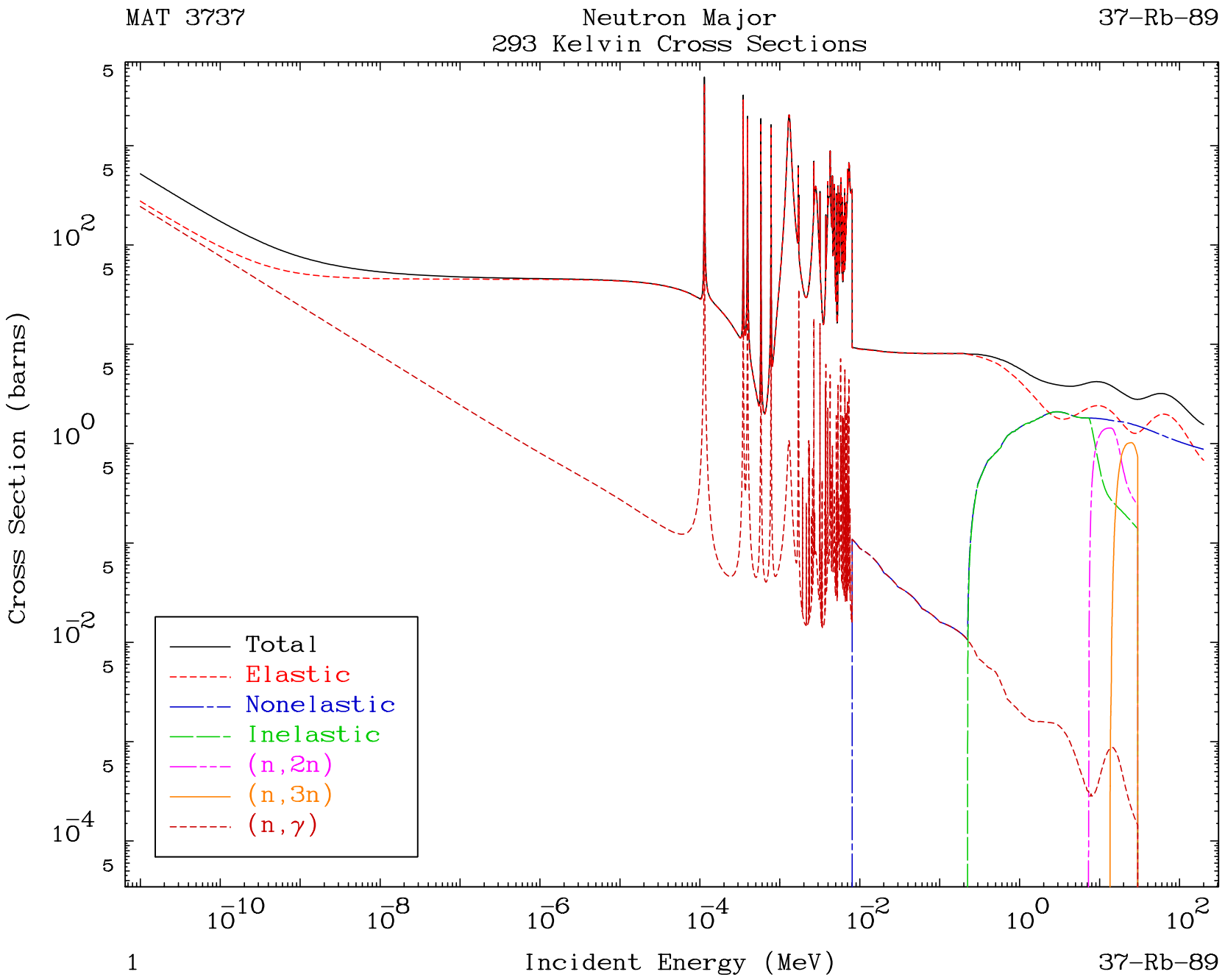
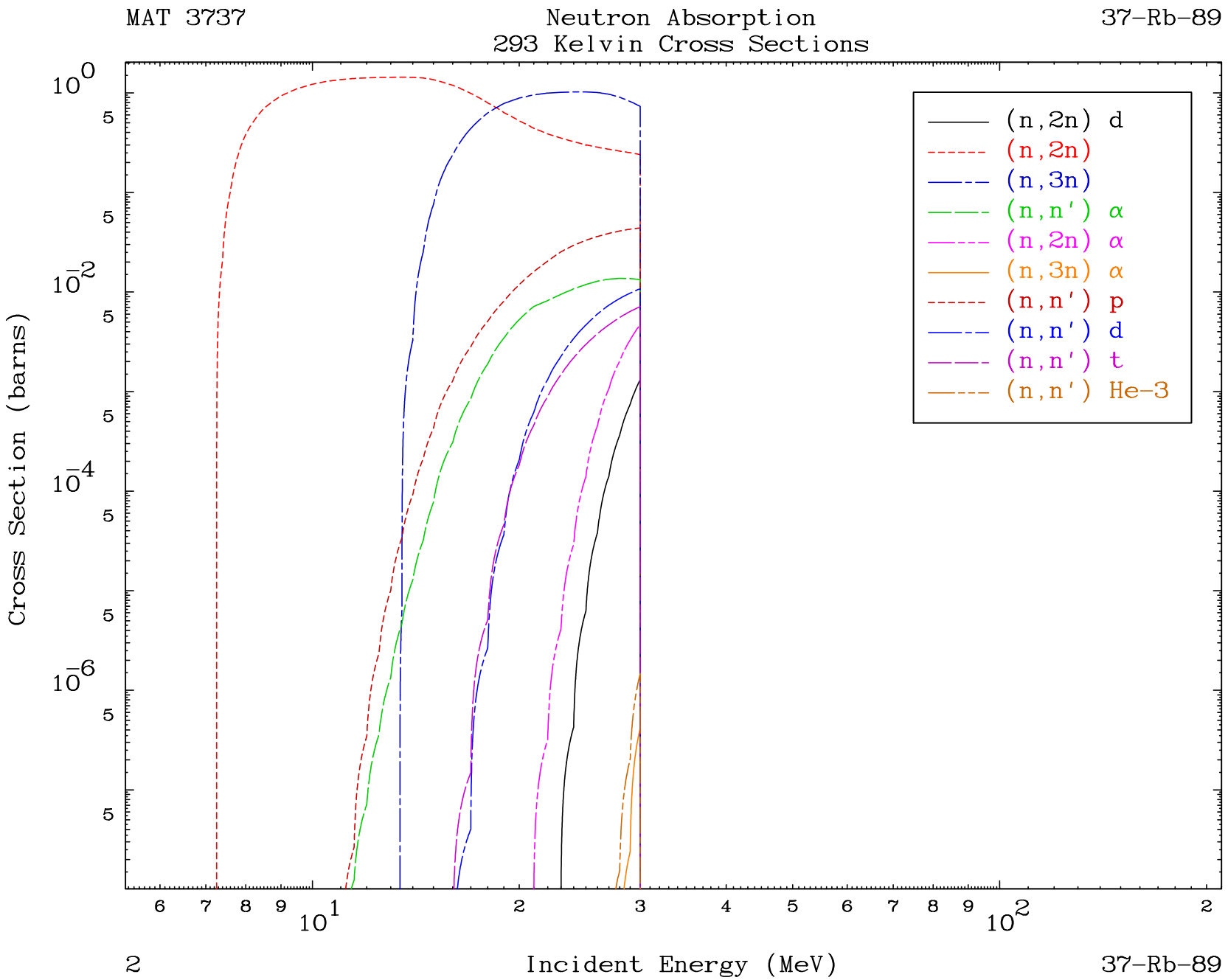
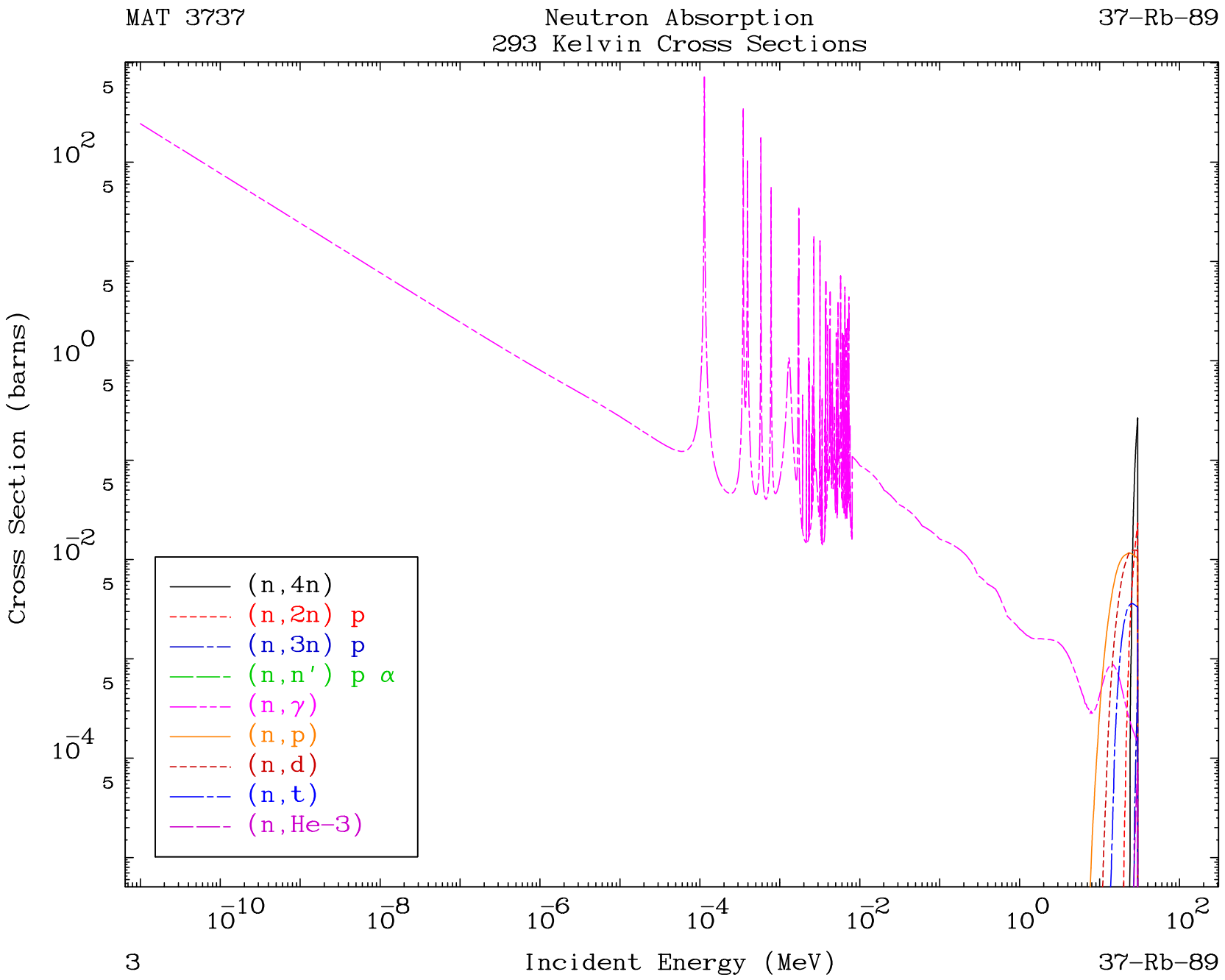
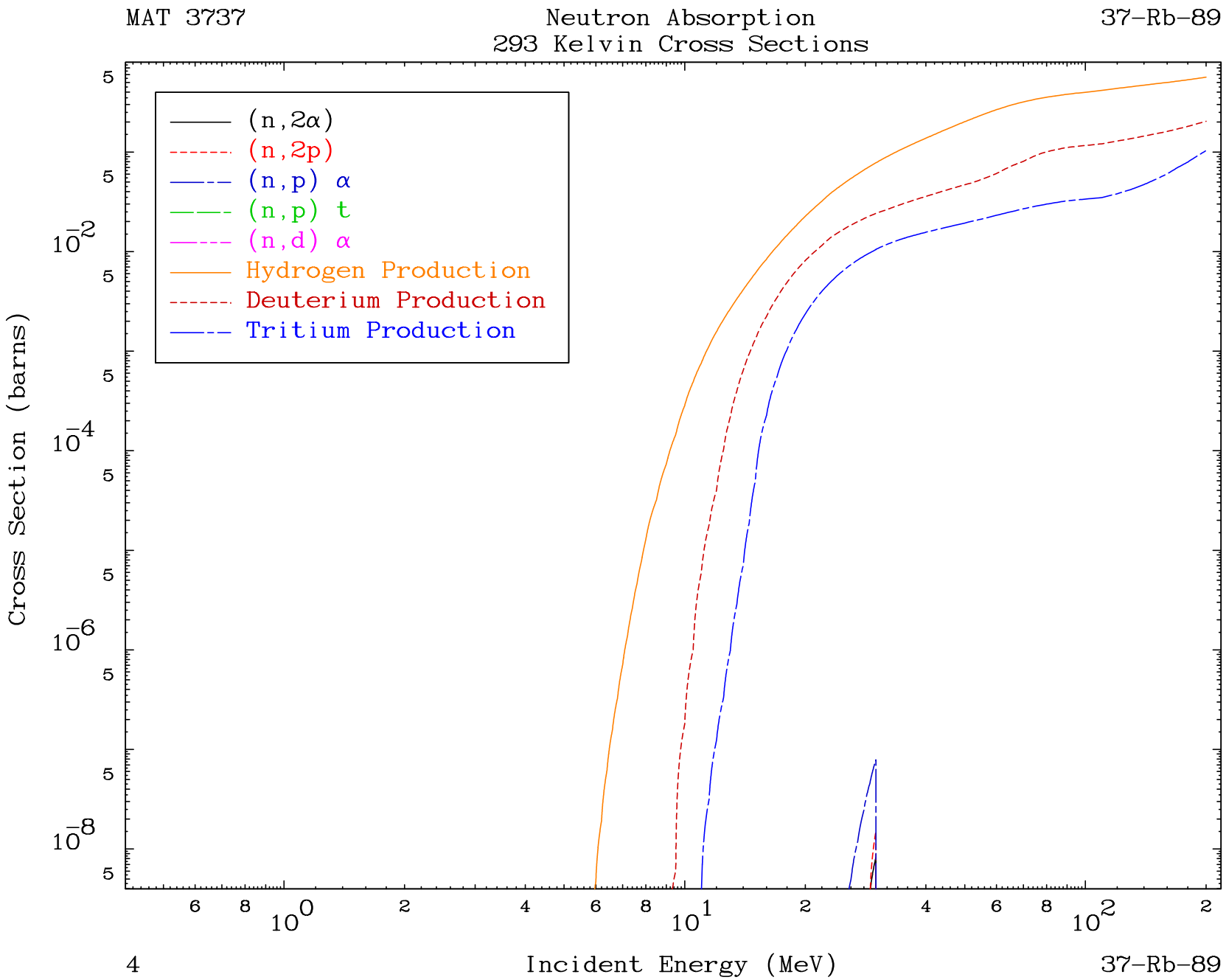
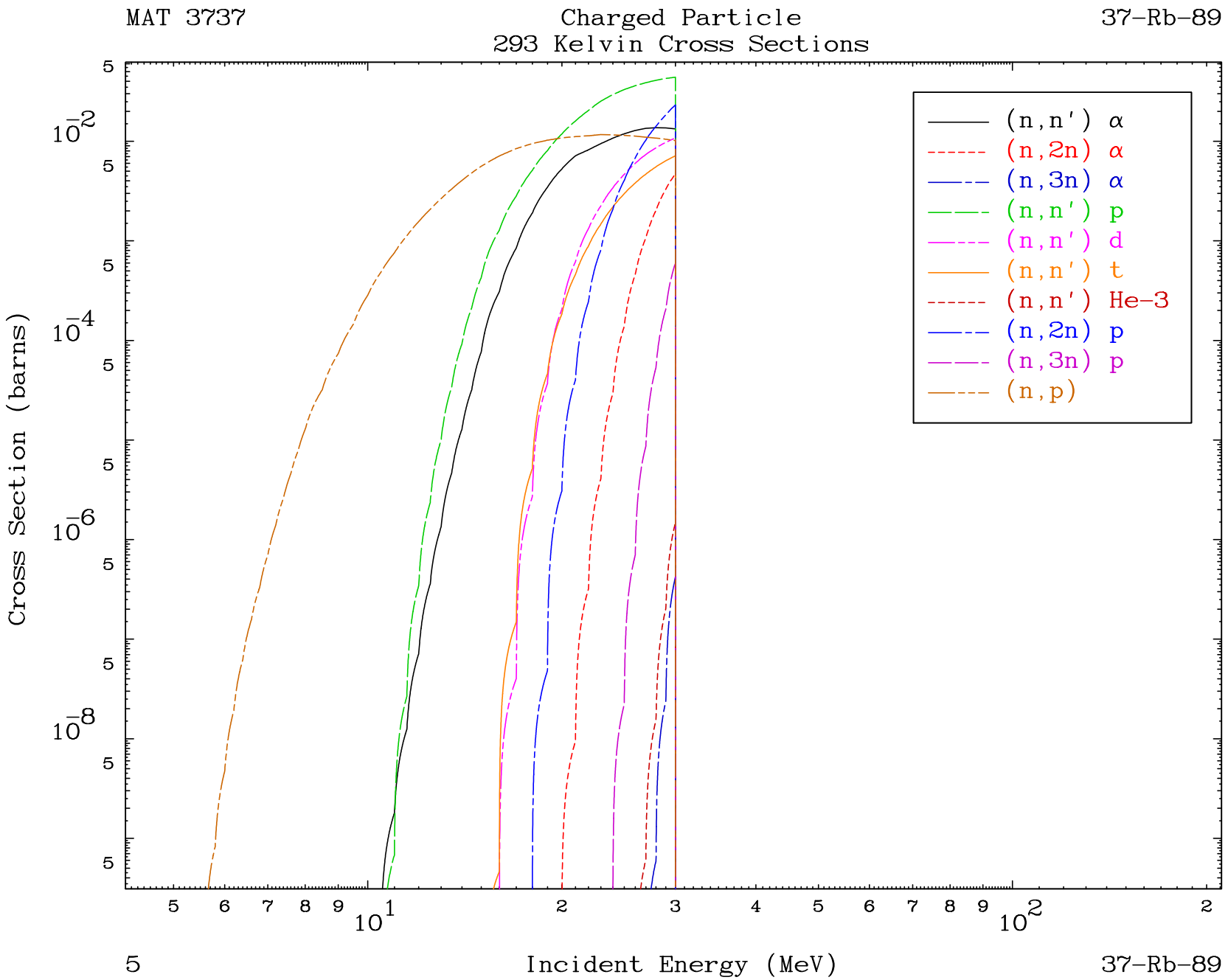
Press Mouse Button to Start

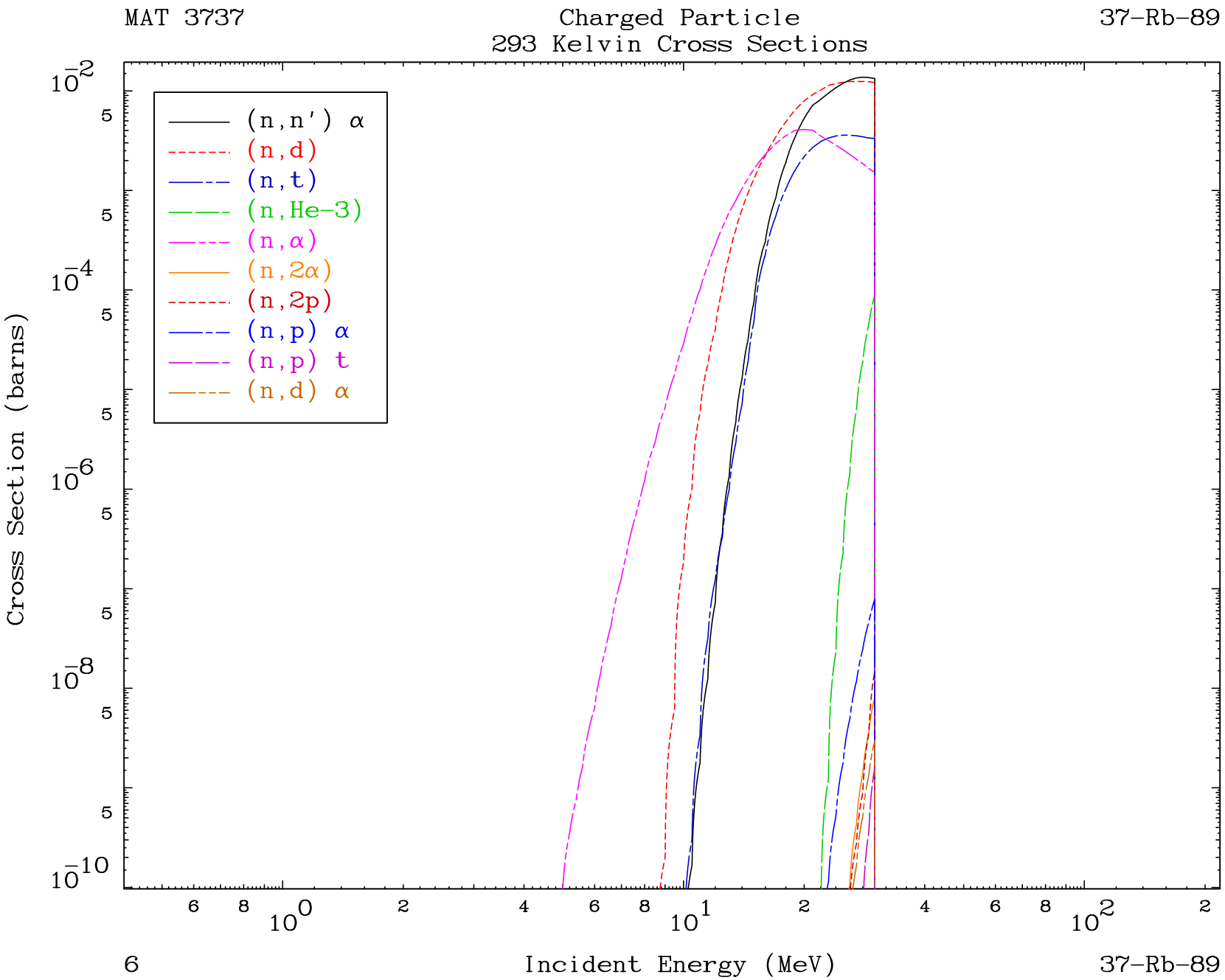

MAT 3737
Neutron Major
37-Rb-89
293 Kelvin Cross Sections
Cross Section (barns)
Incident Energy (MeV)
Total
Elastic
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)
1
37-Rb-89

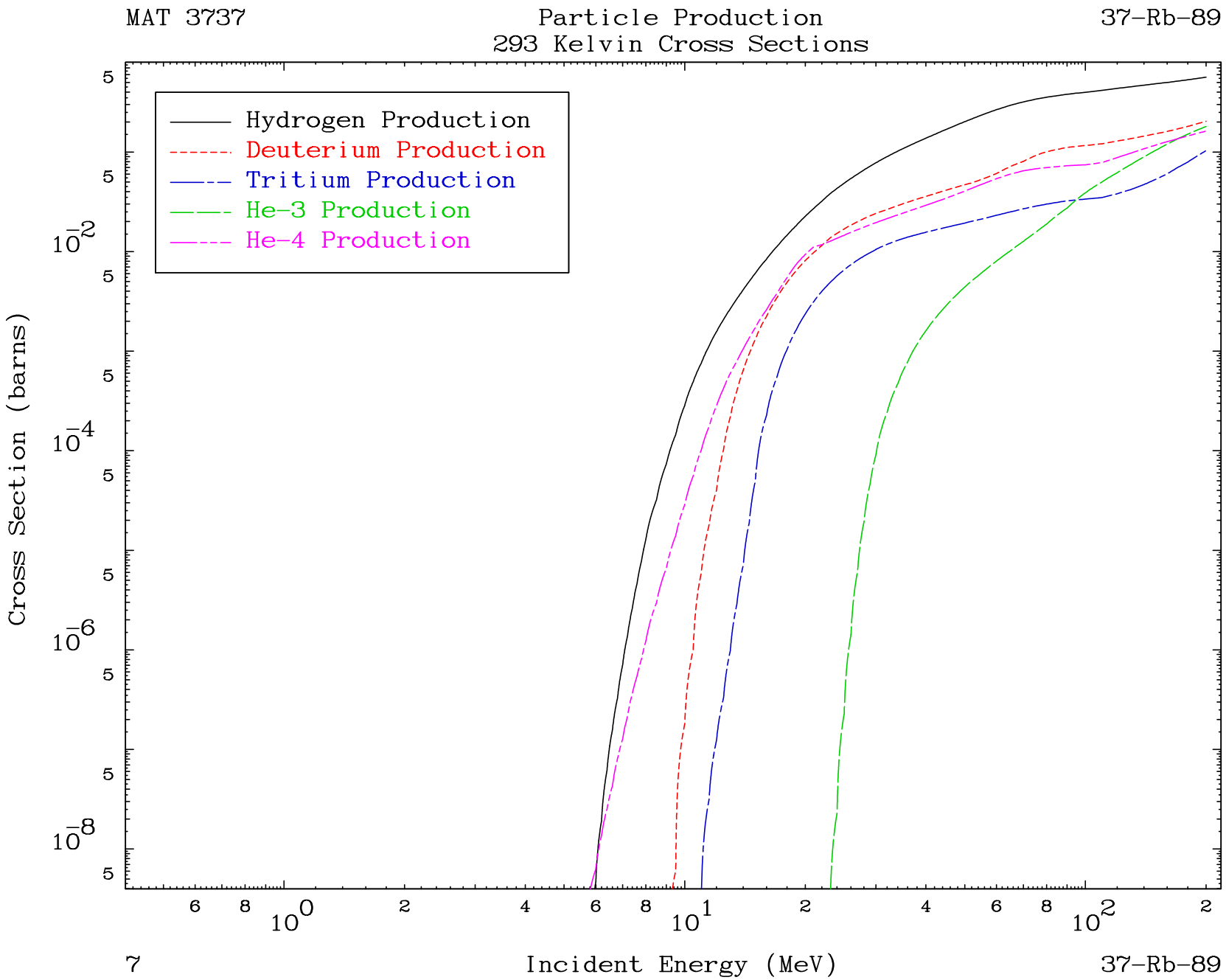

MAT 3737
Neutron Absorption
293 Kelvin Cross Sections
37-Rb-89
Cross Section (barns)
Incident Energy (MeV)
(n,2n) d
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') d
(n,n') t
(n,n') He-3
37-Rb-89
2

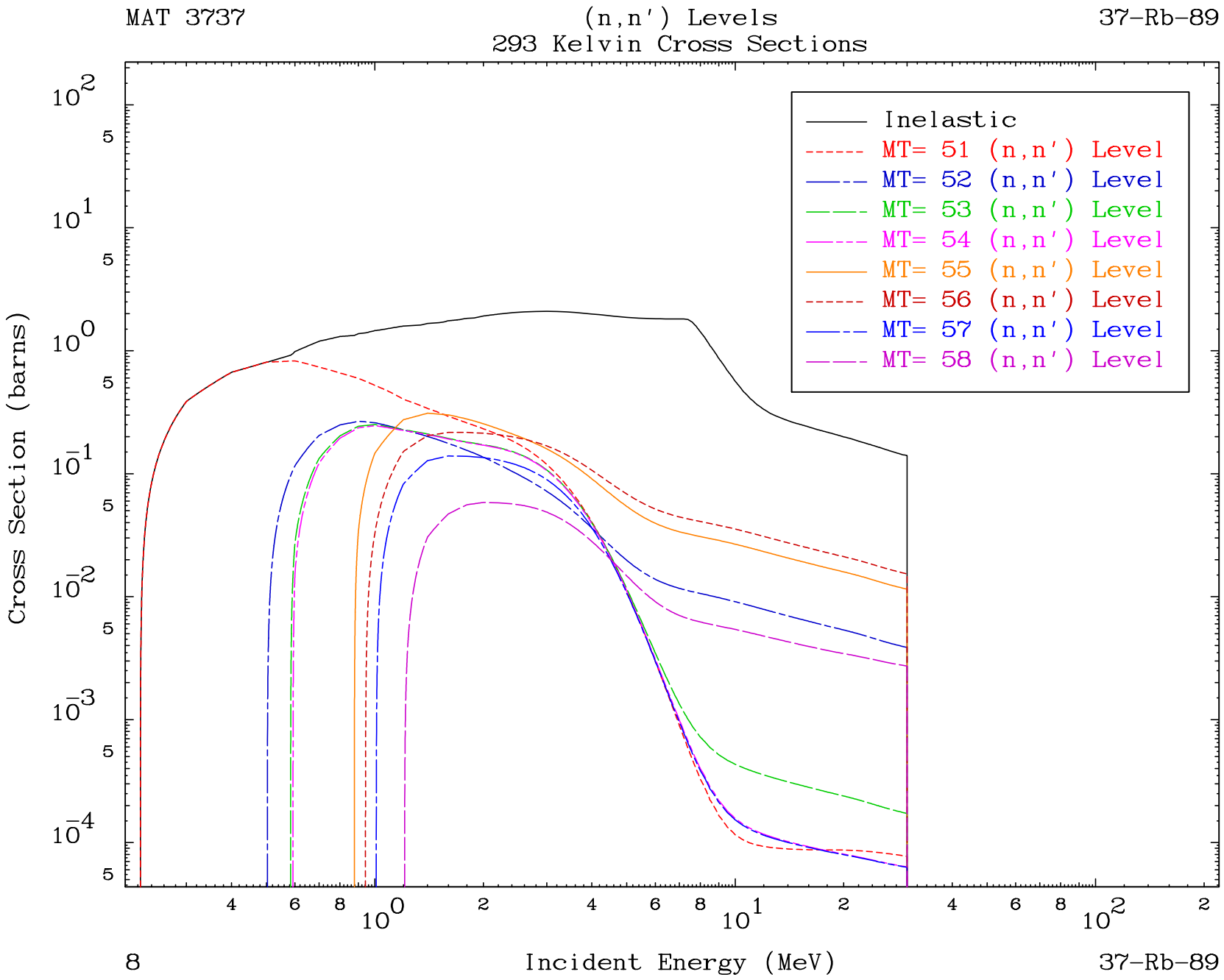

MAT 3737
Neutron Absorption
293 Kelvin Cross Sections
37-Rb-89
Cross Section (barns)
Incident Energy (MeV)
(n,4n)
(n,2n) p
(n,3n) p
(n,n') p α
(n,γ)
(n,p)
(n,d)
(n,t)
(n,He-3)
3
37-Rb-89

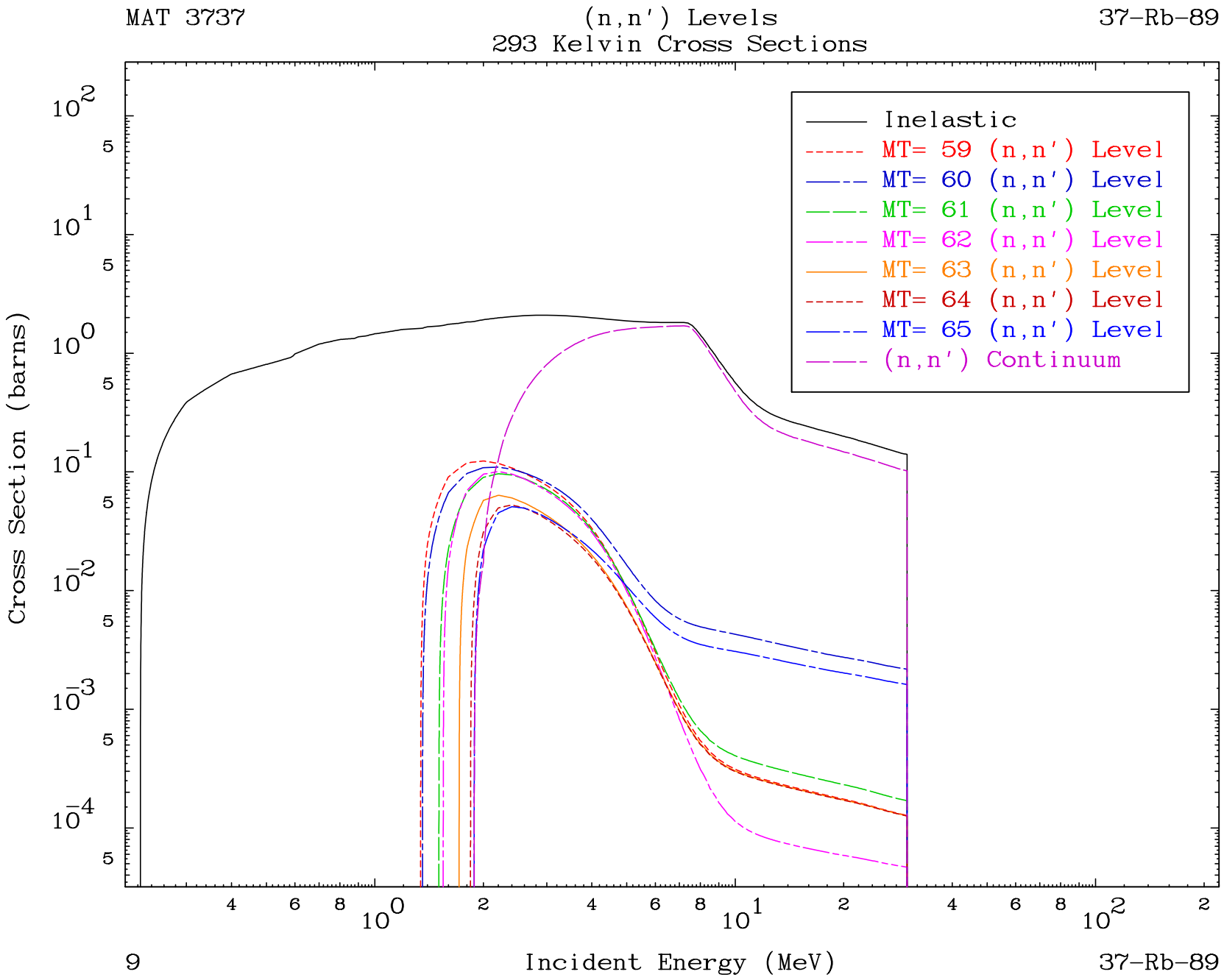

MAT 3737
Neutron Absorption
293 Kelvin Cross Sections
37-Rb-89
(n,2α)
(n,2p)
(n,p) α
(n,p) t
(n,d) α
Hydrogen Production
Deuterium Production
Tritium Production
Cross Section (barns)
Incident Energy (MeV)
4
37-Rb-89

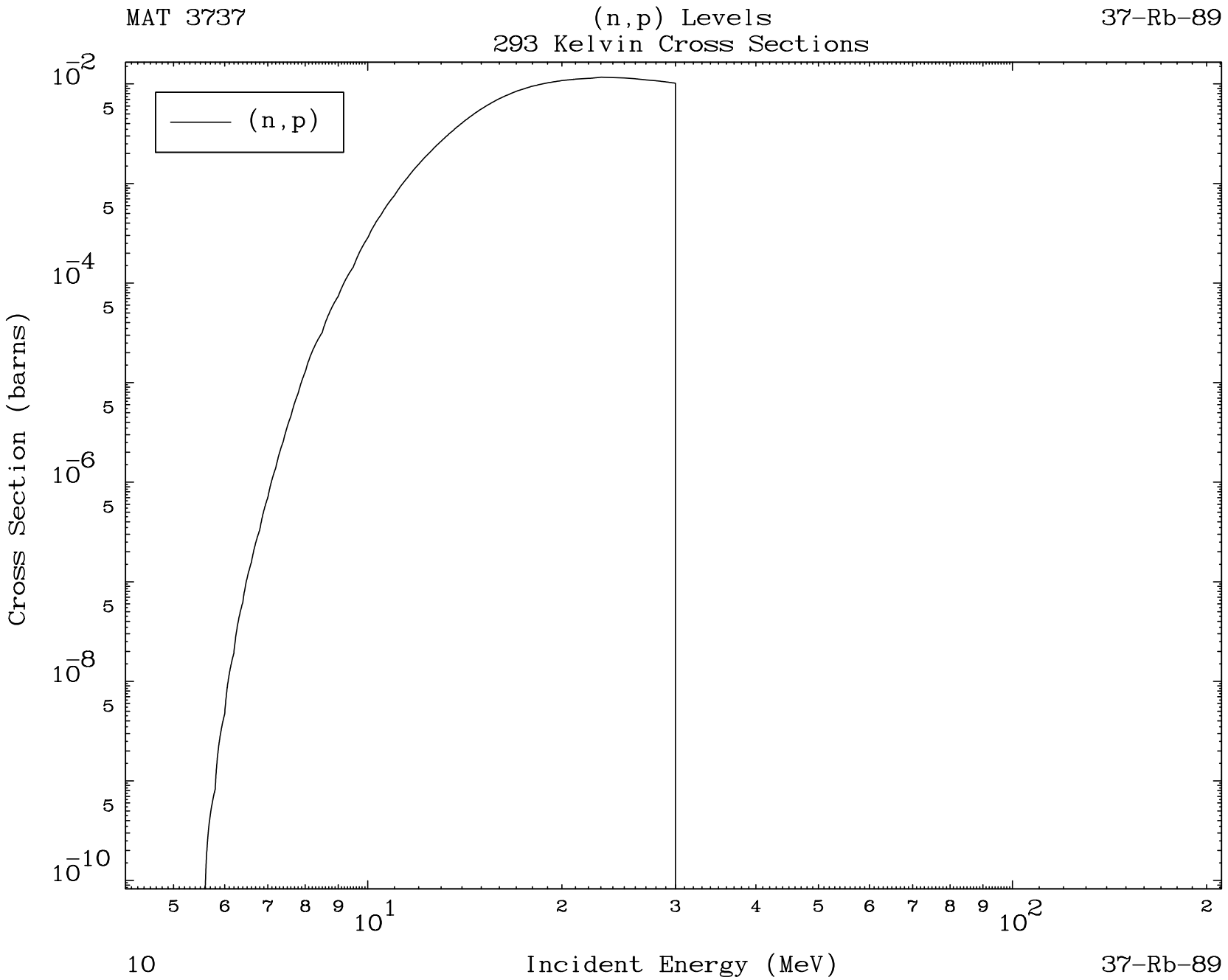

MAT 3737
Charged Particle
293 Kelvin Cross Sections
37-Rb-89
Cross Section (barns)
Incident Energy (MeV)
37-Rb-89
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
(n,3n) p
(n,p)

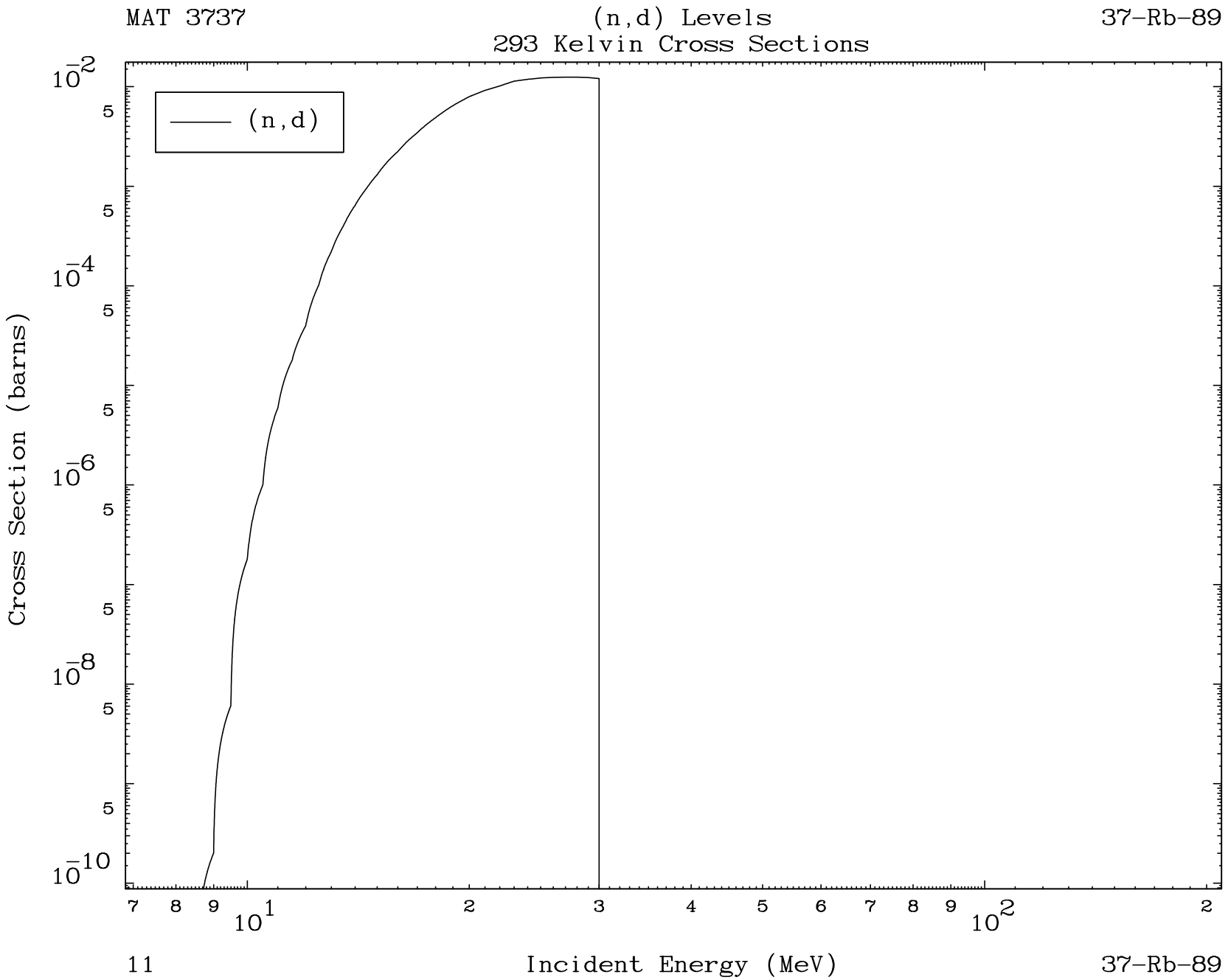

MAT 3737
Charged Particle
293 Kelvin Cross Sections
37-Rb-89
(n,n') α
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
6
37-Rb-89

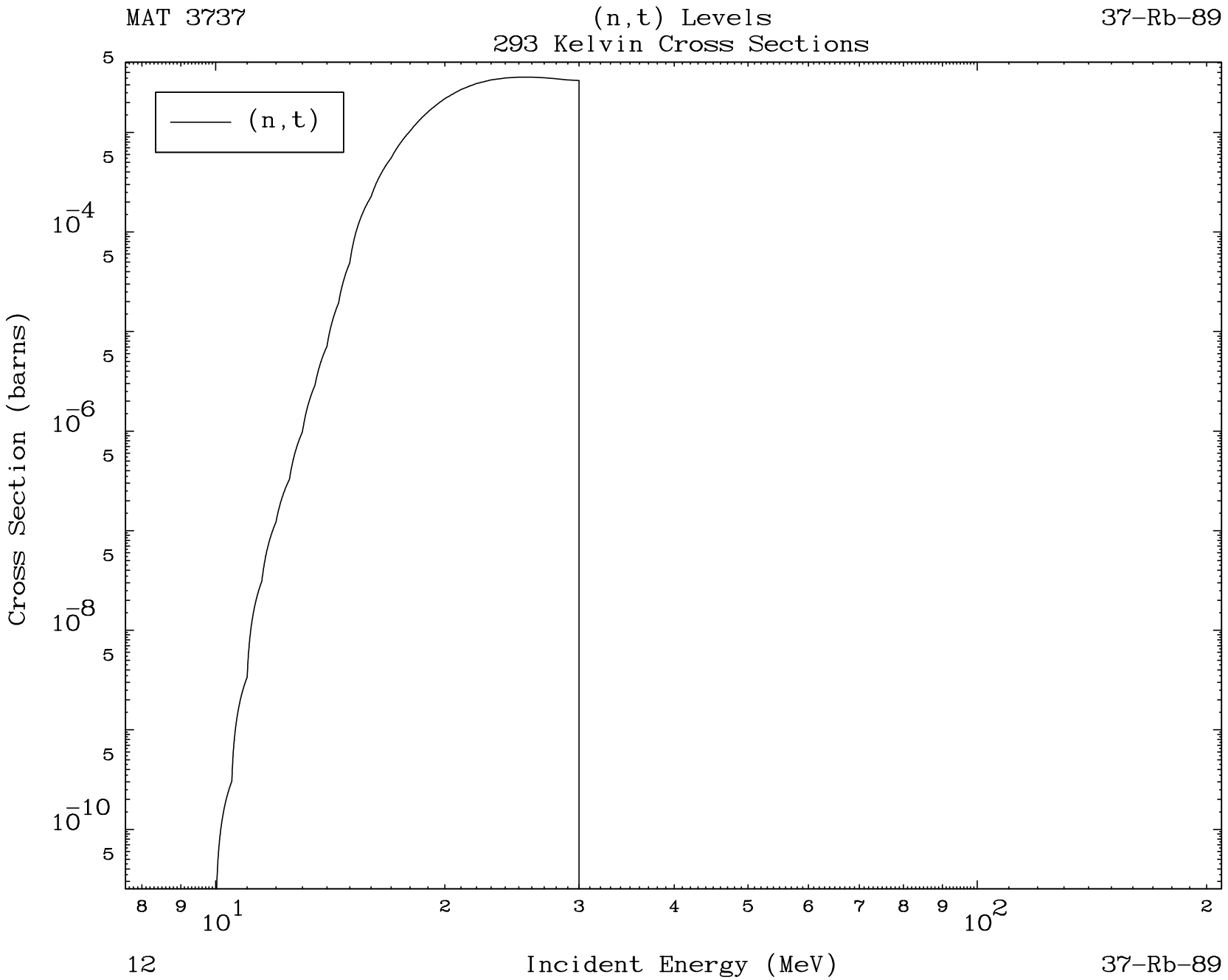

MAT 3737
Particle Production
293 Kelvin Cross Sections
37-Rb-89
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production
Cross Section (barns)
Incident Energy (MeV)
7
37-Rb-89

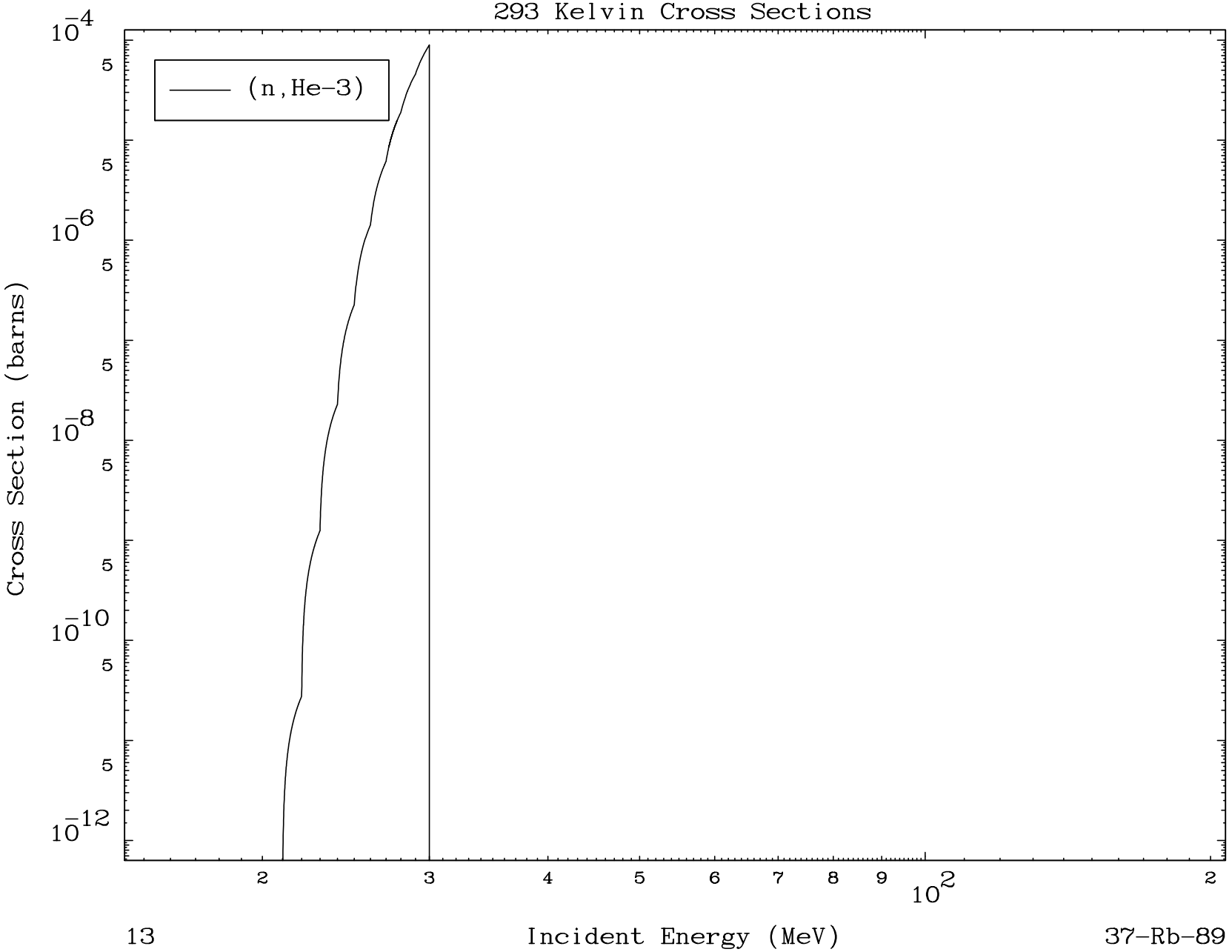

MAT 3737
(n,n') Levels
293 Kelvin Cross Sections
37-Rb-89
Inelastic
MT= 51 (n,n') Level
MT= 52 (n,n') Level
MT= 53 (n,n') Level
MT= 54 (n,n') Level
MT= 55 (n,n') Level
MT= 56 (n,n') Level
MT= 57 (n,n') Level
MT= 58 (n,n') Level
Cross Section (barns)
Incident Energy (MeV)
8
37-Rb-89

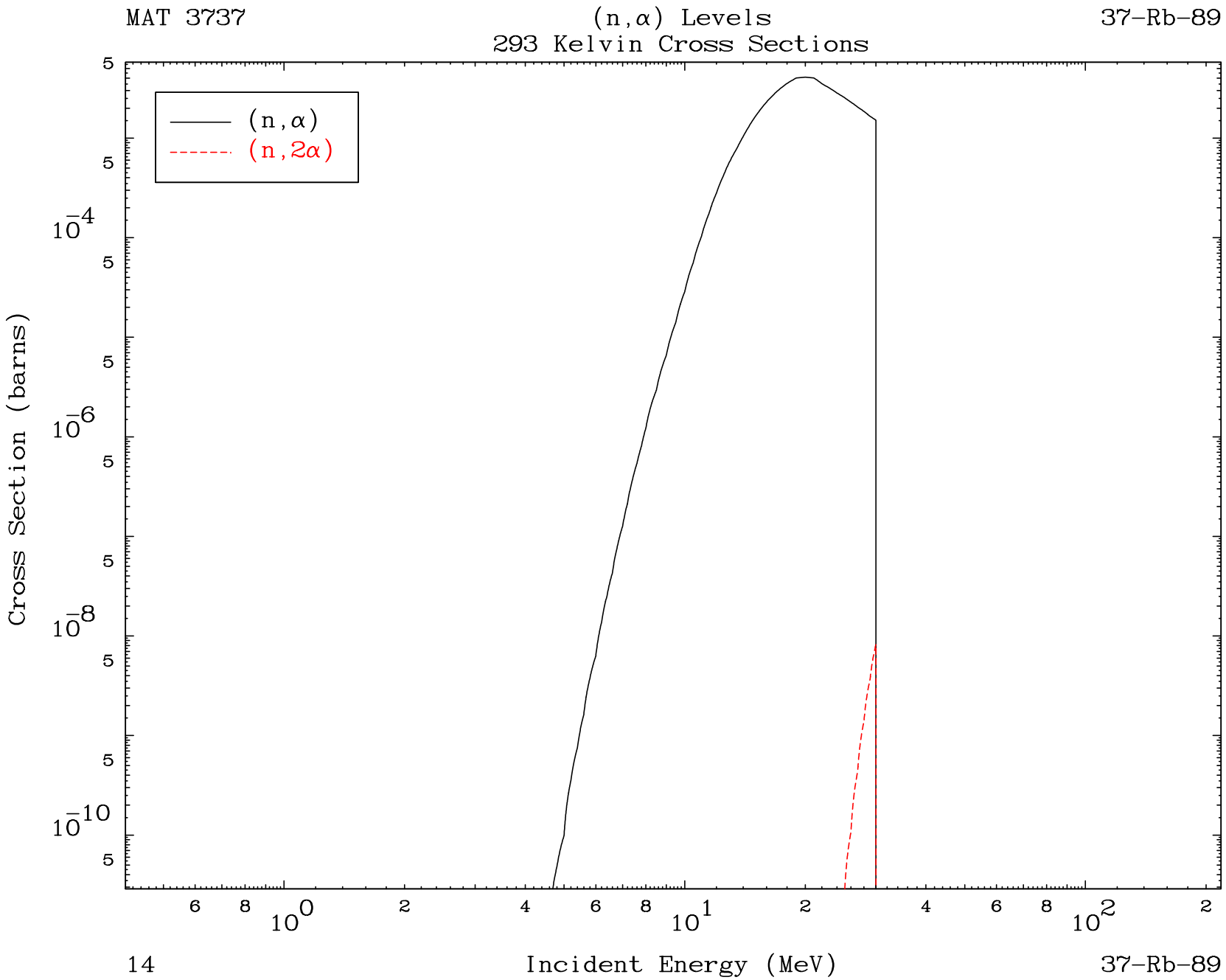

MAT 3737
(n,n') Levels
293 Kelvin Cross Sections
37-Rb-89
Inelastic
MT= 59 (n,n') Level
MT= 60 (n,n') Level
MT= 61 (n,n') Level
MT= 62 (n,n') Level
MT= 63 (n,n') Level
MT= 64 (n,n') Level
MT= 65 (n,n') Level
(n,n') Continuum
Cross Section (barns)
Incident Energy (MeV)
9
37-Rb-89

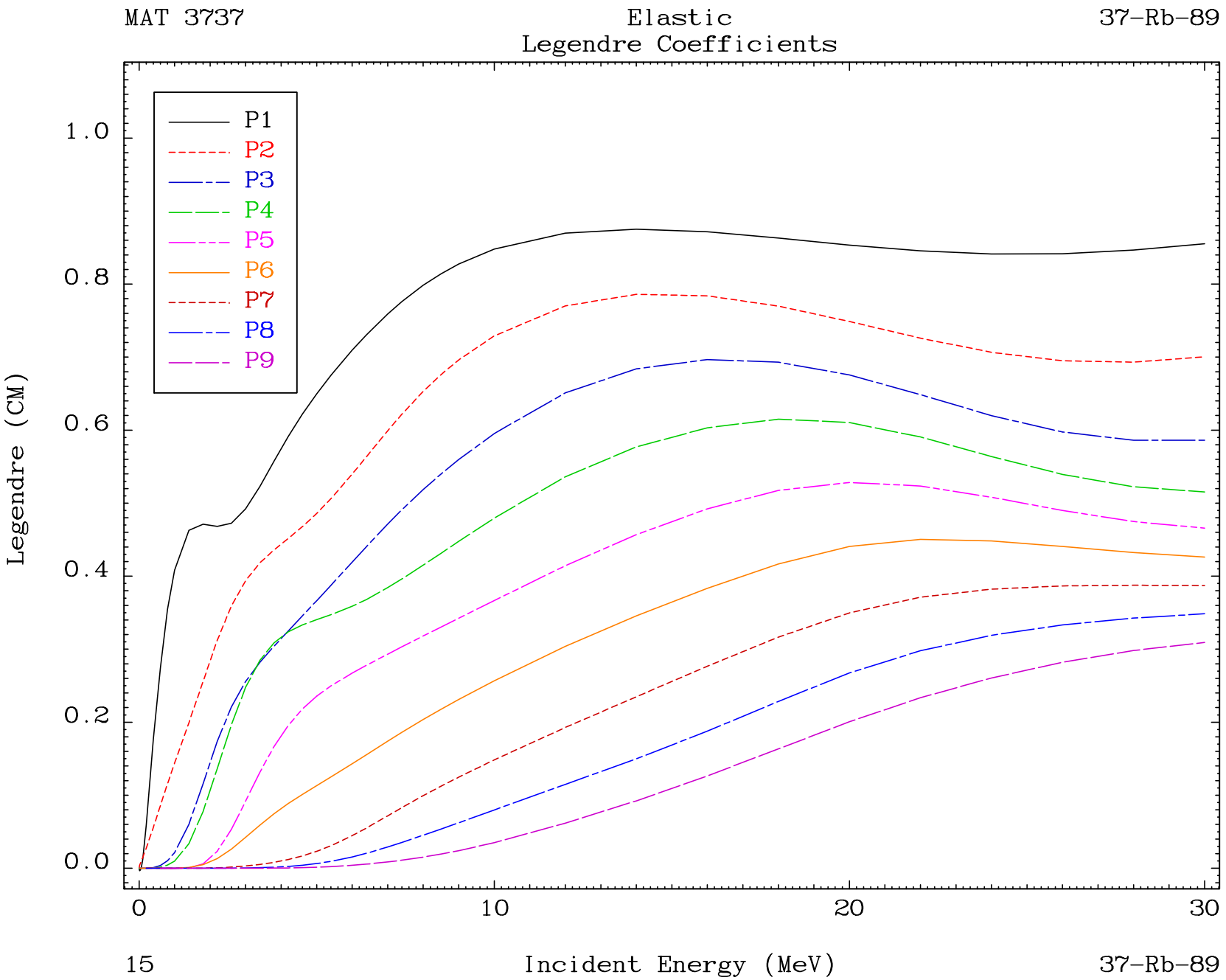

MAT 3737
(n,p) Levels
37-Rb-89
293 Kelvin Cross Sections
(n,p)
Cross Section (barns)
Incident Energy (MeV)
10
37-Rb-89

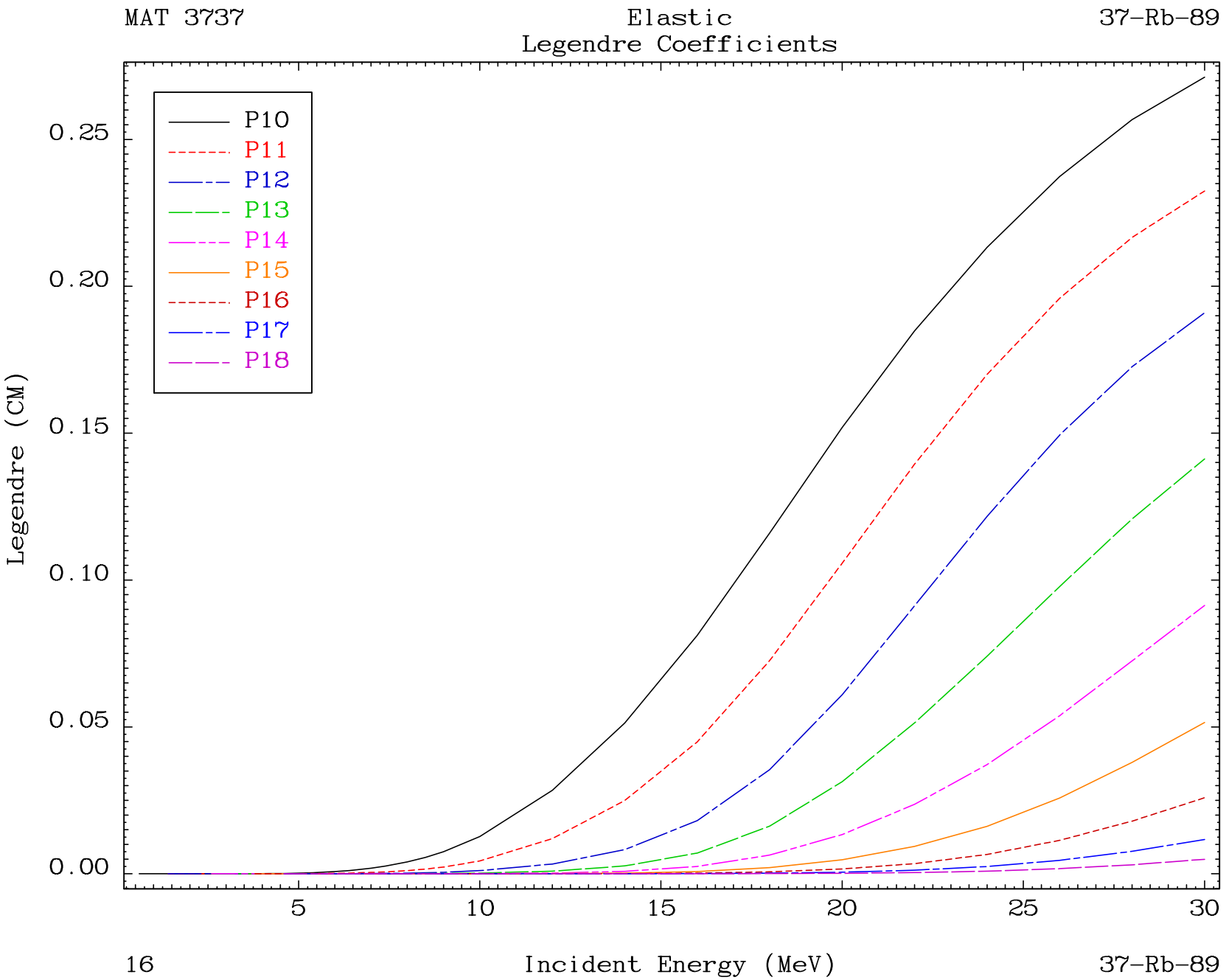

MAT 3737
(n,d) Levels
37-Rb-89
293 Kelvin Cross Sections
(n,d)
Cross Section (barns)
Incident Energy (MeV)
11
37-Rb-89

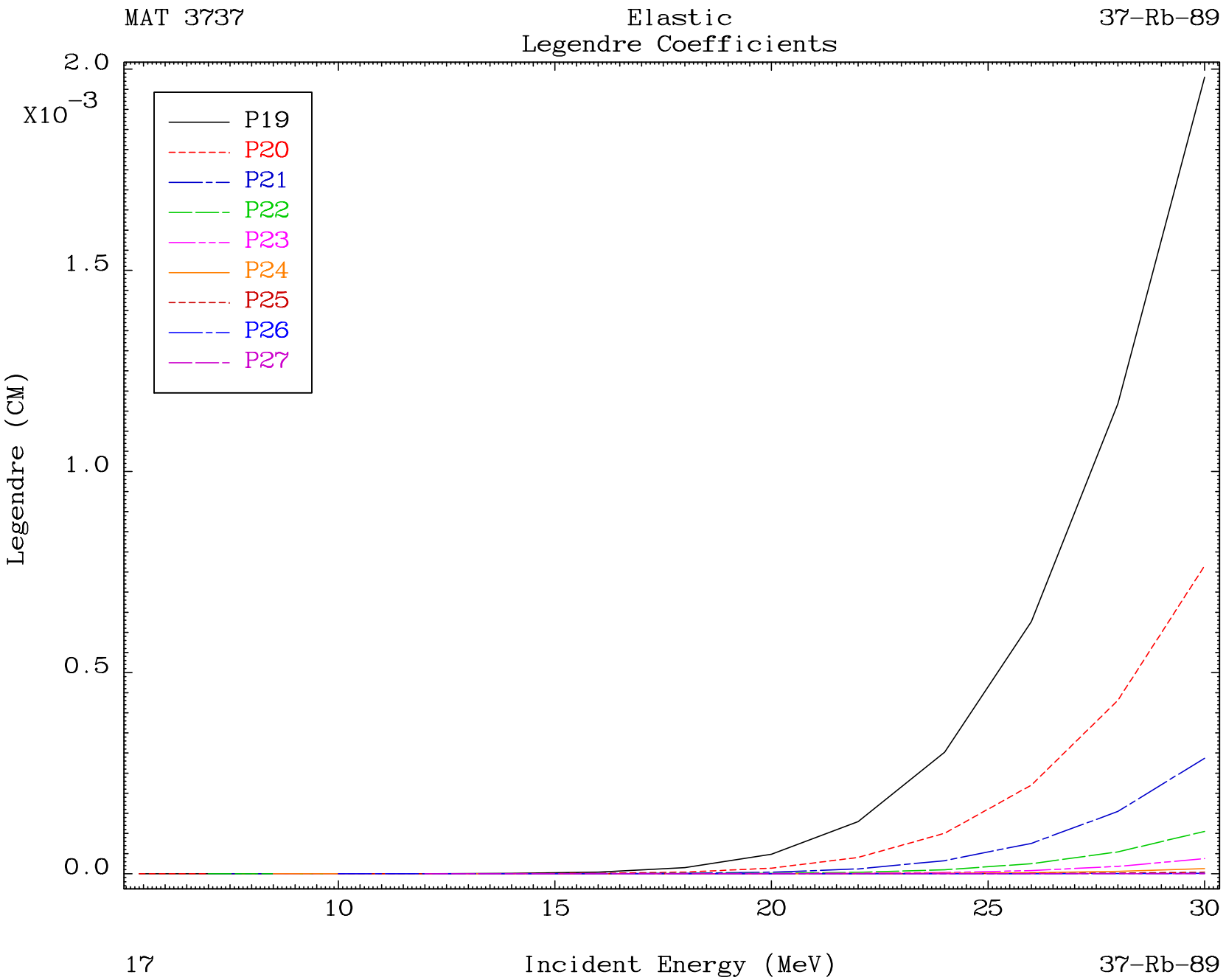

MAT 3737
(n,t) Levels
37-Rb-89
293 Kelvin Cross Sections
(n,t)
Cross Section (barns)
Incident Energy (MeV)
12
37-Rb-89

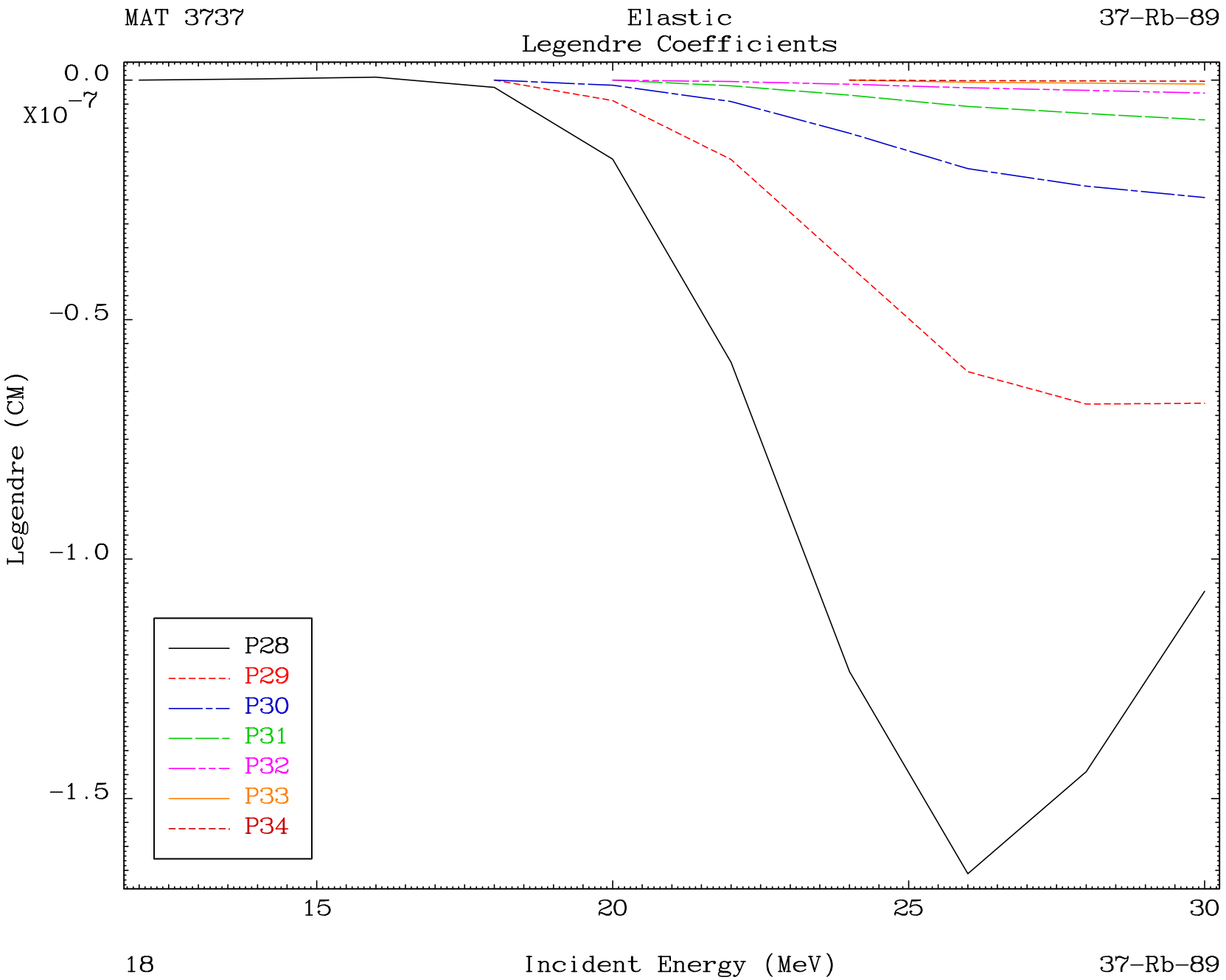

293 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
10^-4
5
10^-6
5
10^-8
5
10^-10
5
10^-12
5
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)

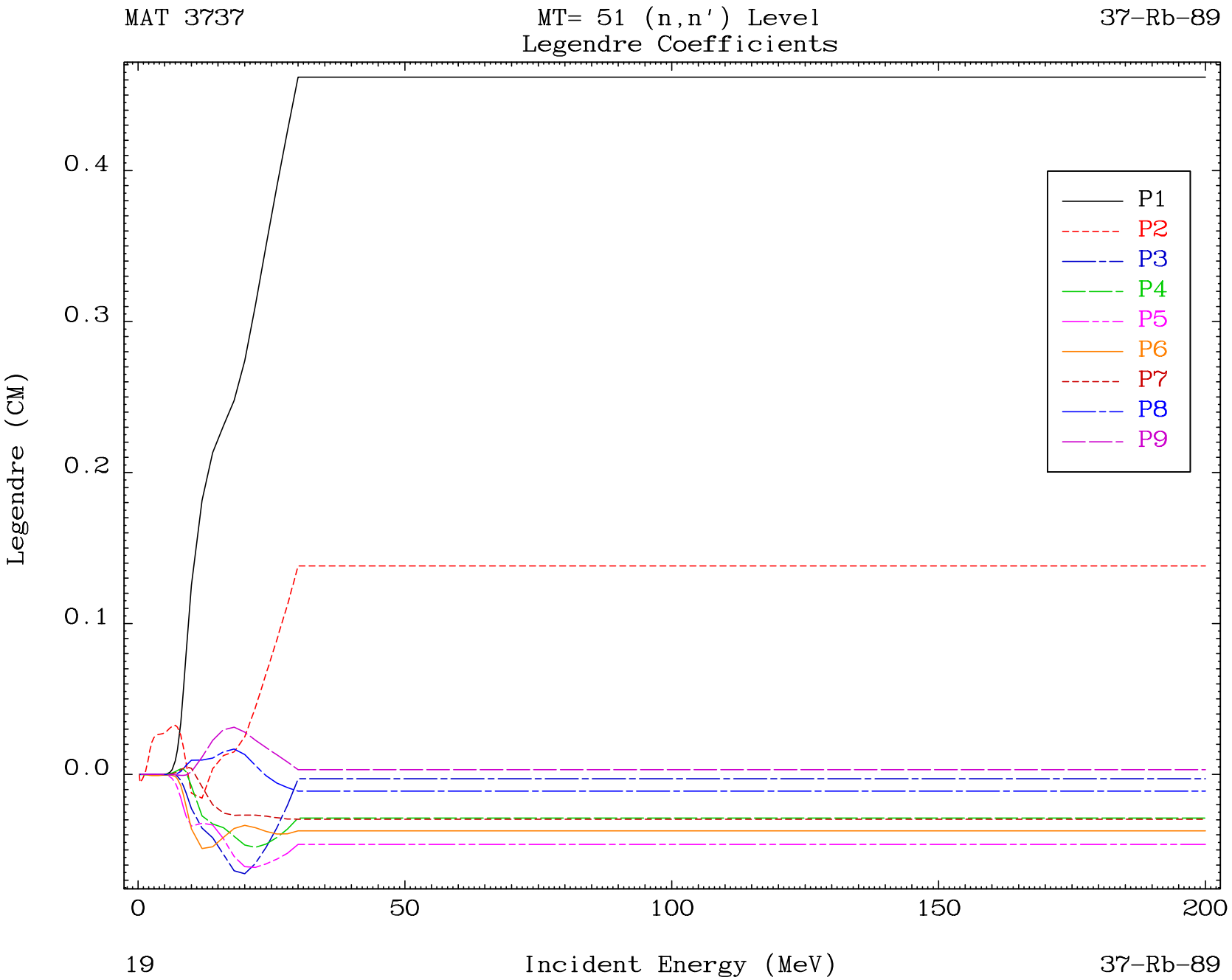

MAT 3737
(n,α) Levels
37-Rb-89
293 Kelvin Cross Sections
(n,α)
(n,2α)
Cross Section (barns)
Incident Energy (MeV)
14
37-Rb-89

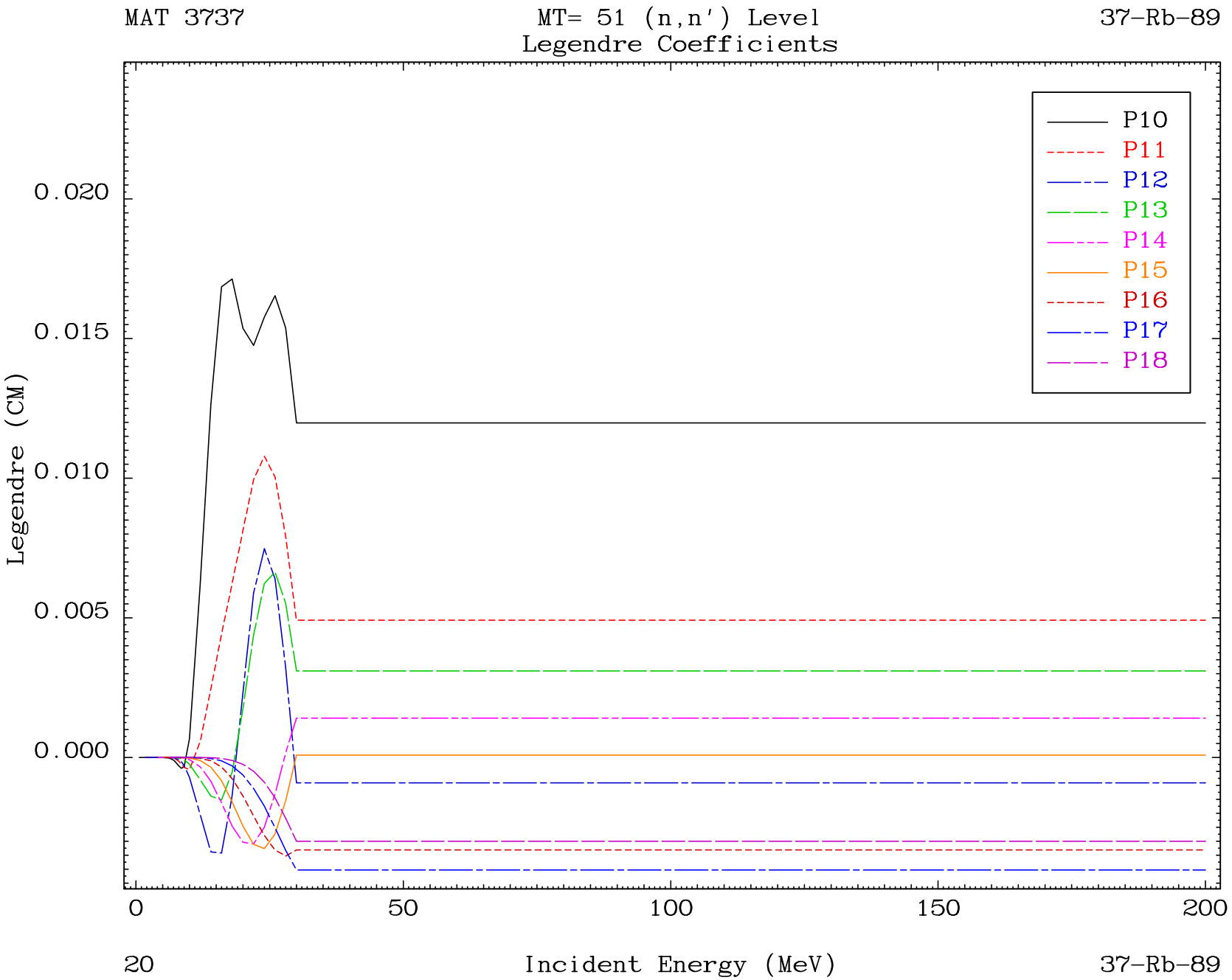

MAT 3737
Elastic
Legendre Coefficients
37-Rb-89
P1
P2
P3
P4
P5
P6
P7
P8
P9
Legendre (CM)
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
15
Incident Energy (MeV)
37-Rb-89

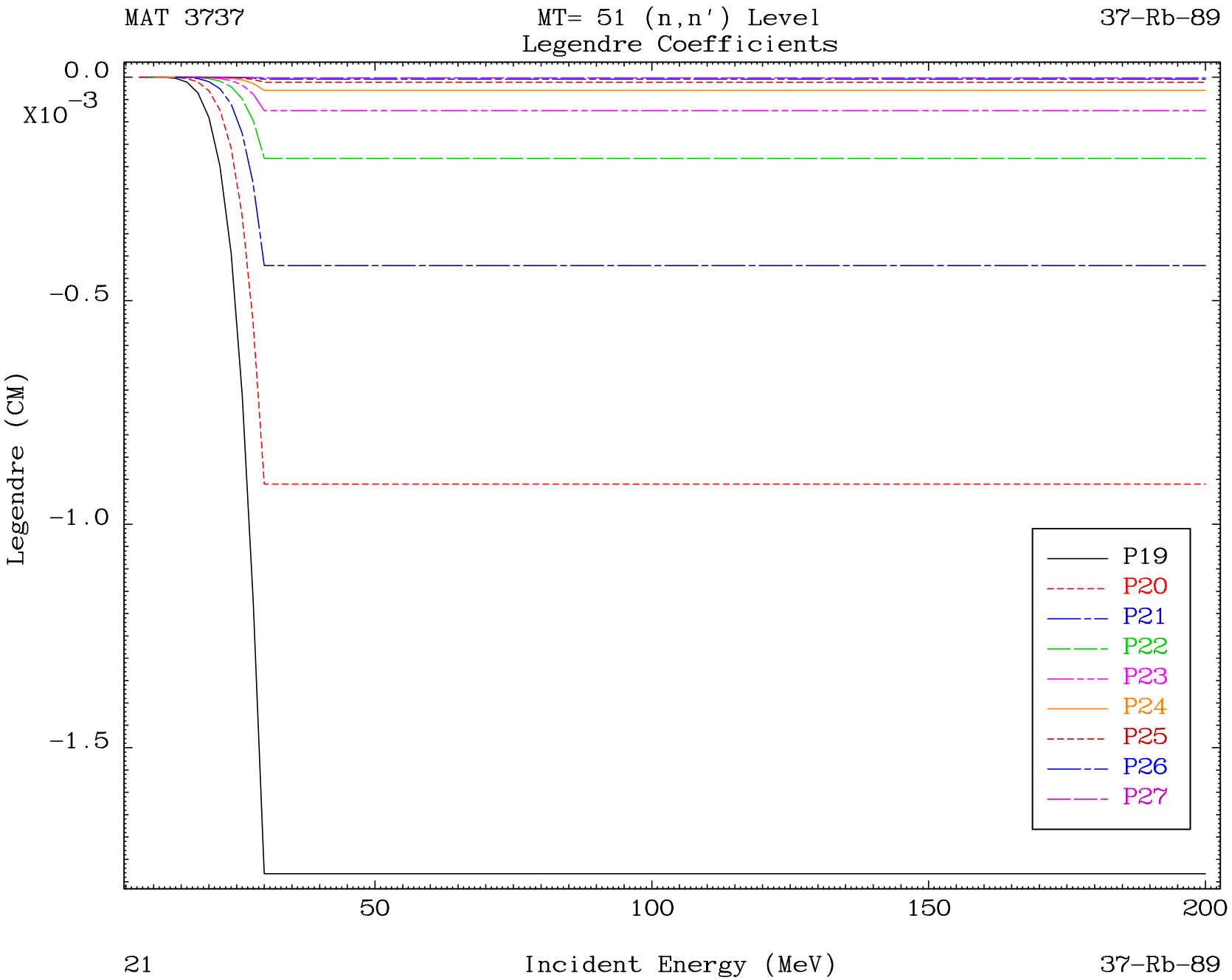

MAT 3737
Elastic
Legendre Coefficients
37-Rb-89
P10
P11
P12
P13
P14
P15
P16
P17
P18
Legendre (CM)
0.25
0.20
0.15
0.10
0.05
0.00
5
10
15
20
25
30
16
Incident Energy (MeV)
37-Rb-89

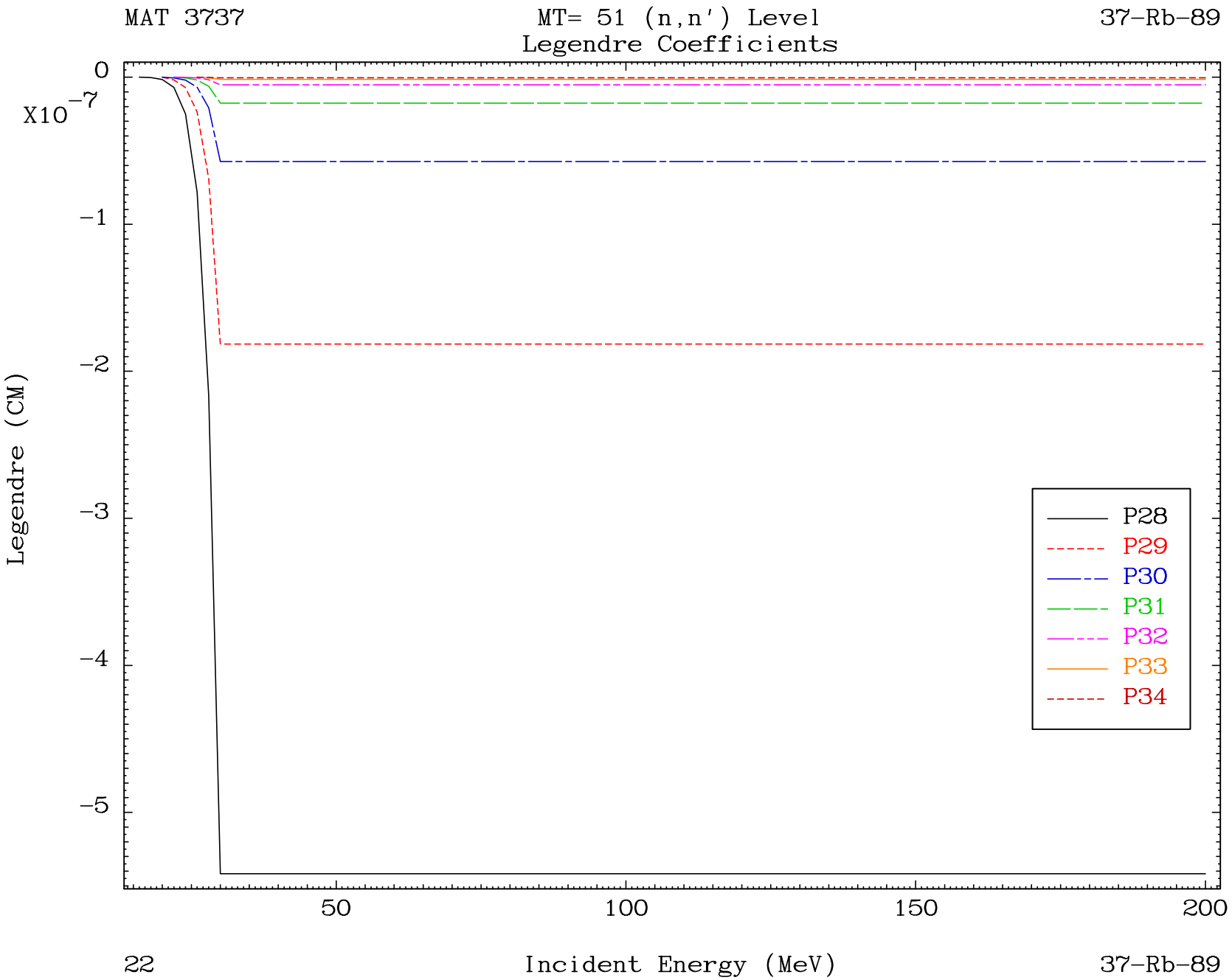

MAT 3737
Elastic
Legendre Coefficients
37-Rb-89
2.0
X10-3
1.5
1.0
0.5
0.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
10
15
20
25
30
17
Incident Energy (MeV)
37-Rb-89

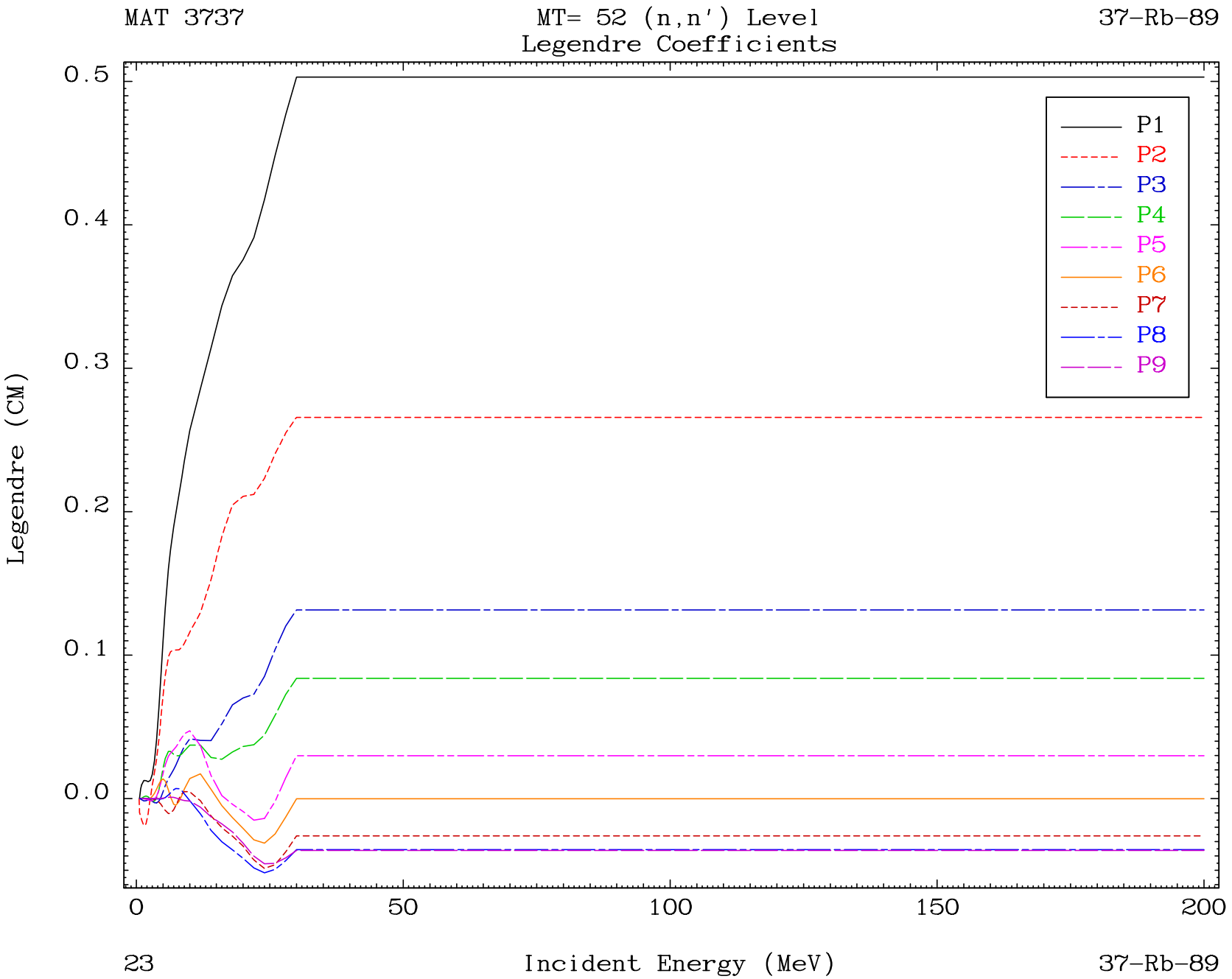

MAT 3737
Elastic
Legendre Coefficients
37-Rb-89
0.0
X10-7
-0.5
-1.0
-1.5
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
15
20
25
30
18
Incident Energy (MeV)
37-Rb-89

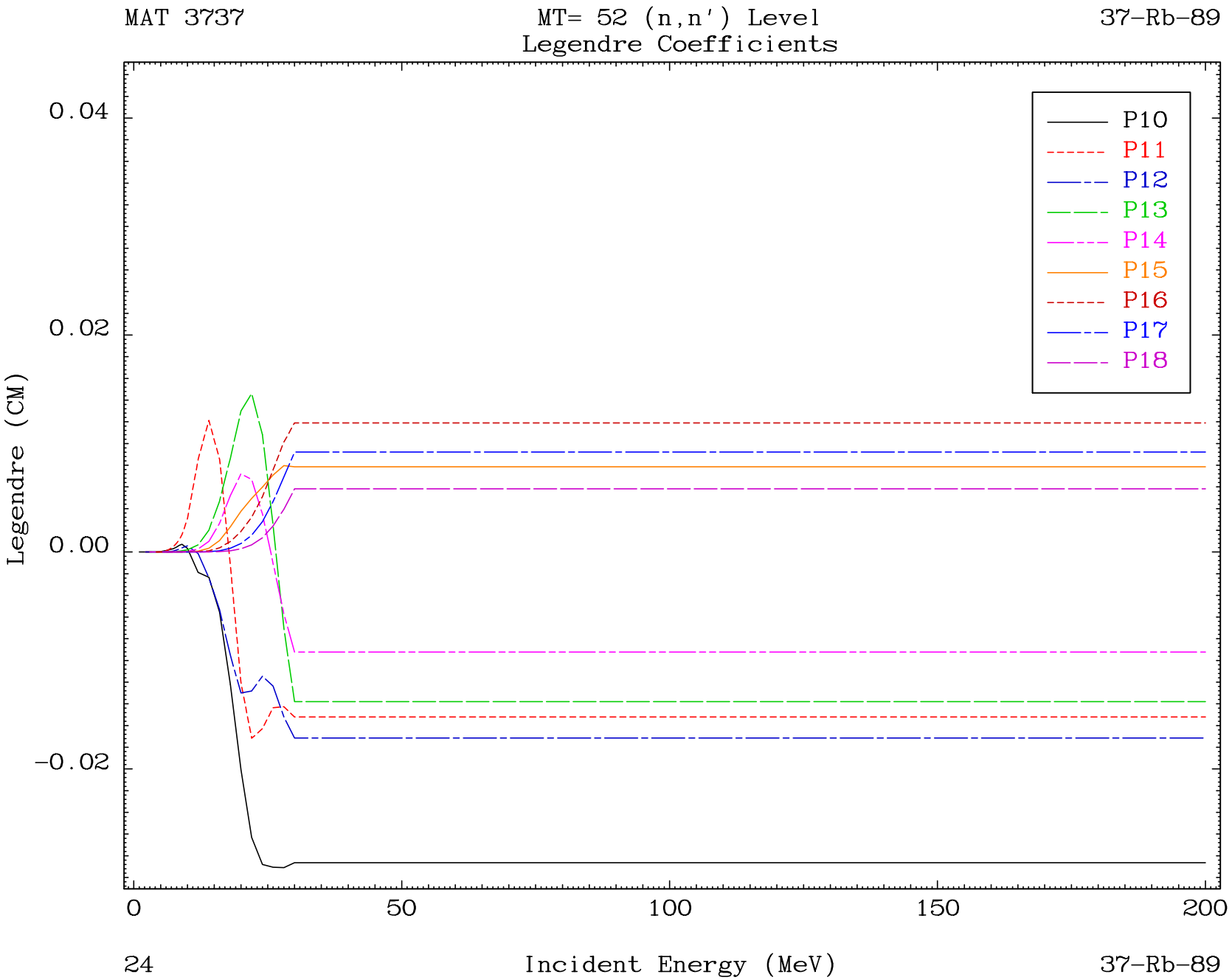

MAT 3737
MT= 51 (n,n') Level
Legendre Coefficients
37-Rb-89
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
19
Incident Energy (MeV)
37-Rb-89

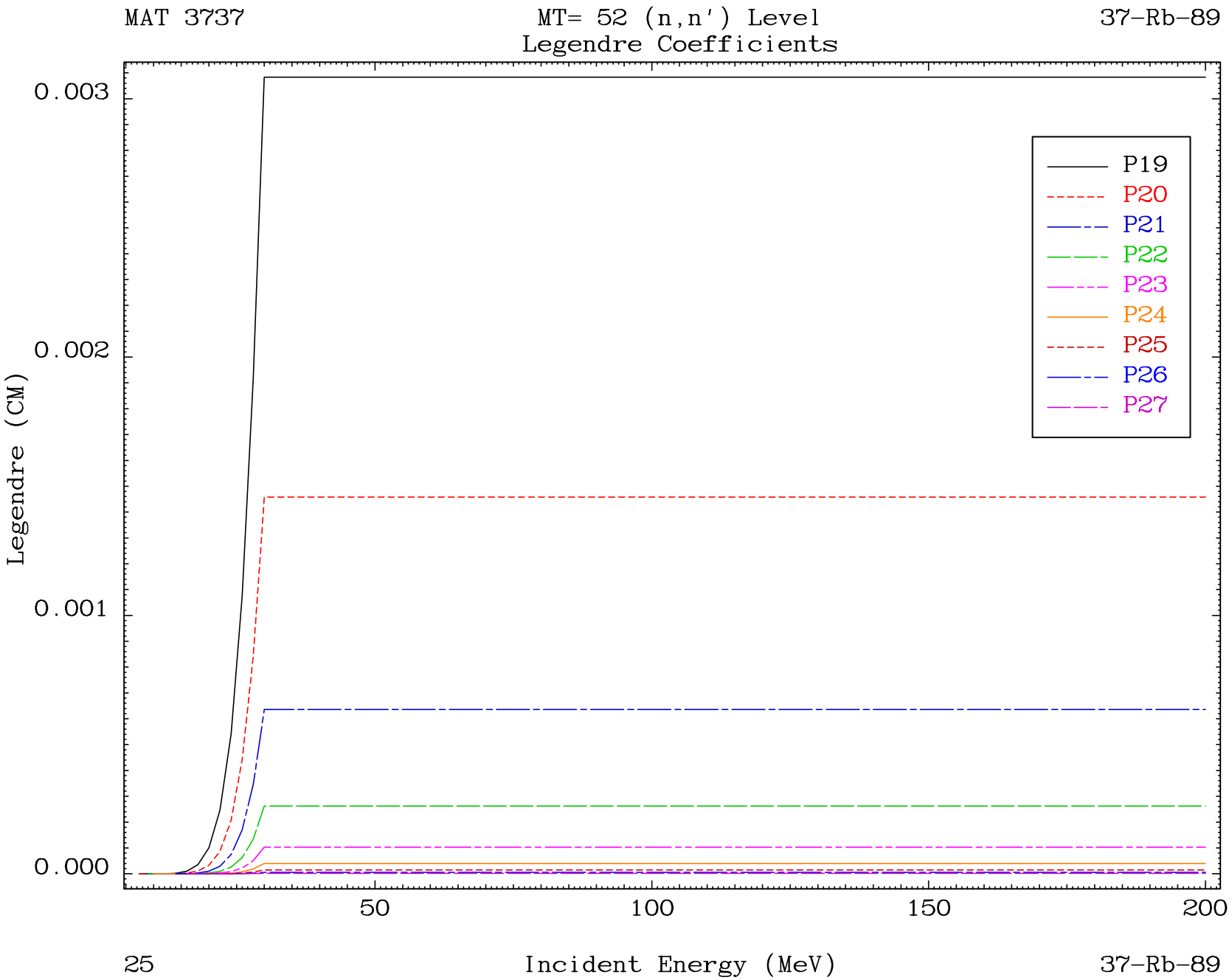

MAT 3737
MT= 51 (n,n') Level
Legendre Coefficients
37-Rb-89
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.020
0.015
0.010
0.005
0.000
Legendre (CM)
0
50
100
150
200
20
Incident Energy (MeV)
37-Rb-89

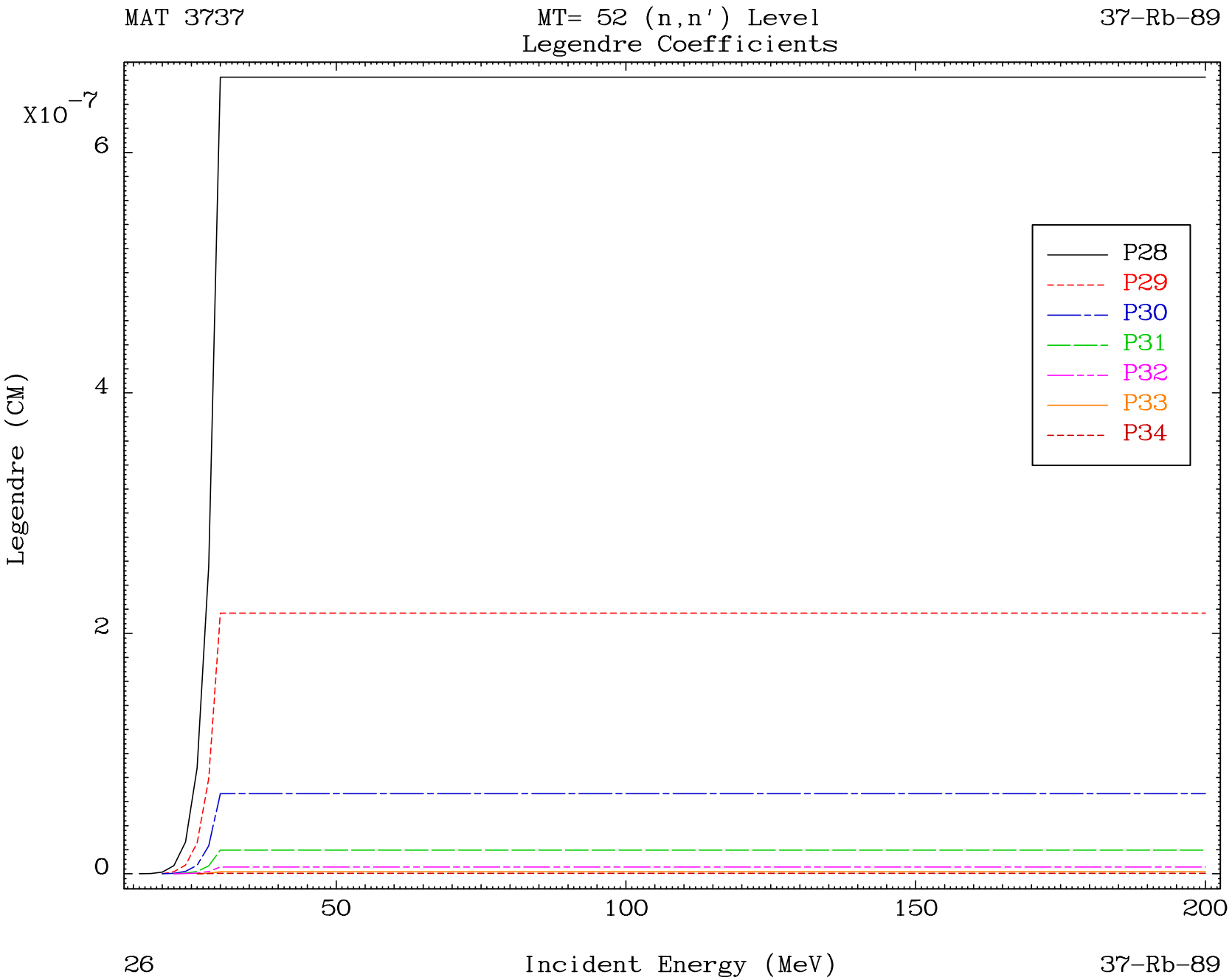

MAT 3737
MT= 51 (n,n') Level
Legendre Coefficients
37-Rb-89
0.0
X10^-3
-0.5
-1.0
-1.5
Legendre (CM)
50
100
150
200
21
Incident Energy (MeV)
37-Rb-89
P19
P20
P21
P22
P23
P24
P25
P26
P27

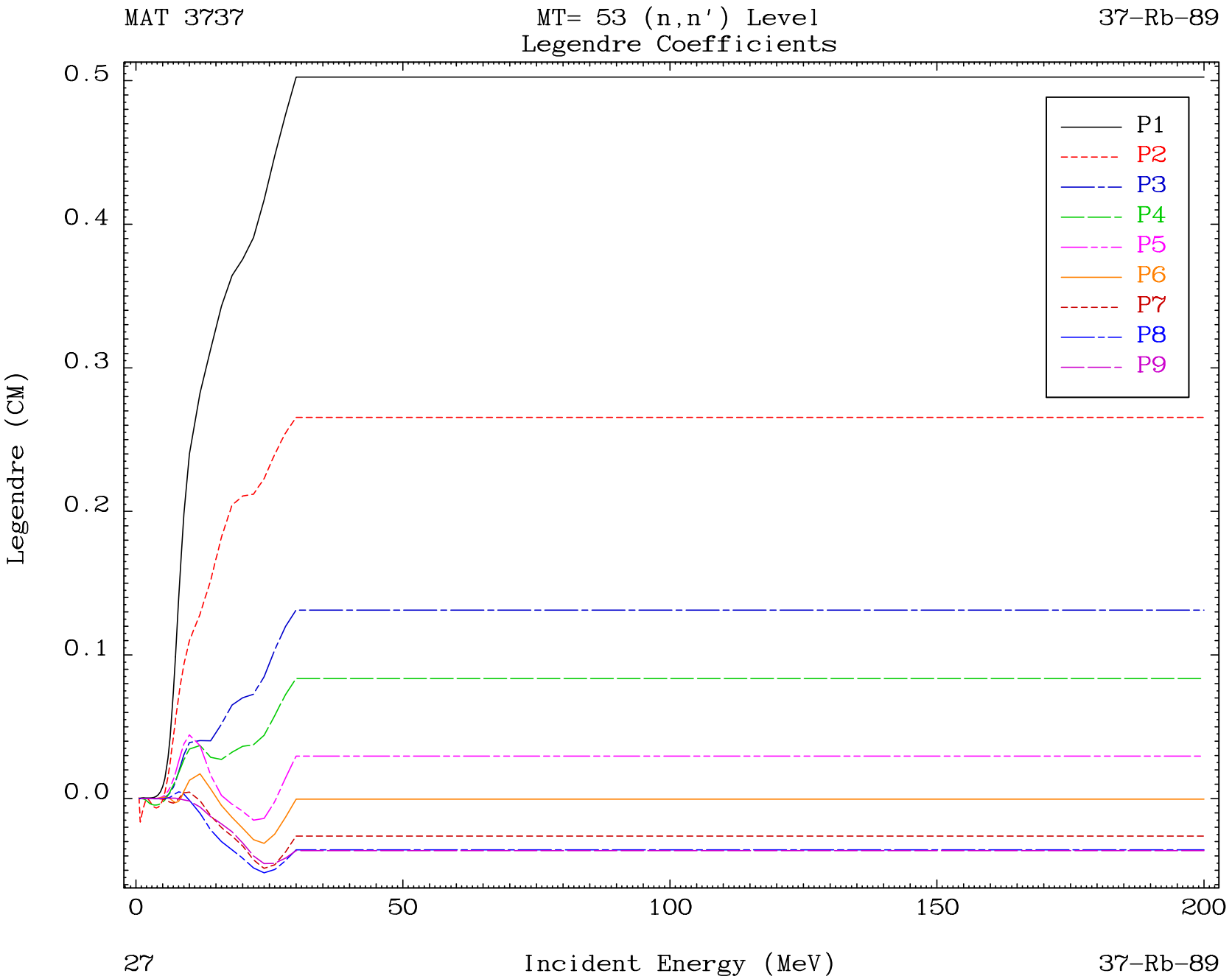

MAT 3737
MT= 51 (n,n') Level
Legendre Coefficients
37-Rb-89
X10-7
0
-1
-2
-3
-4
-5
Legendre (CM)
50
100
150
200
22
Incident Energy (MeV)
37-Rb-89
P28
P29
P30
P31
P32
P33
P34

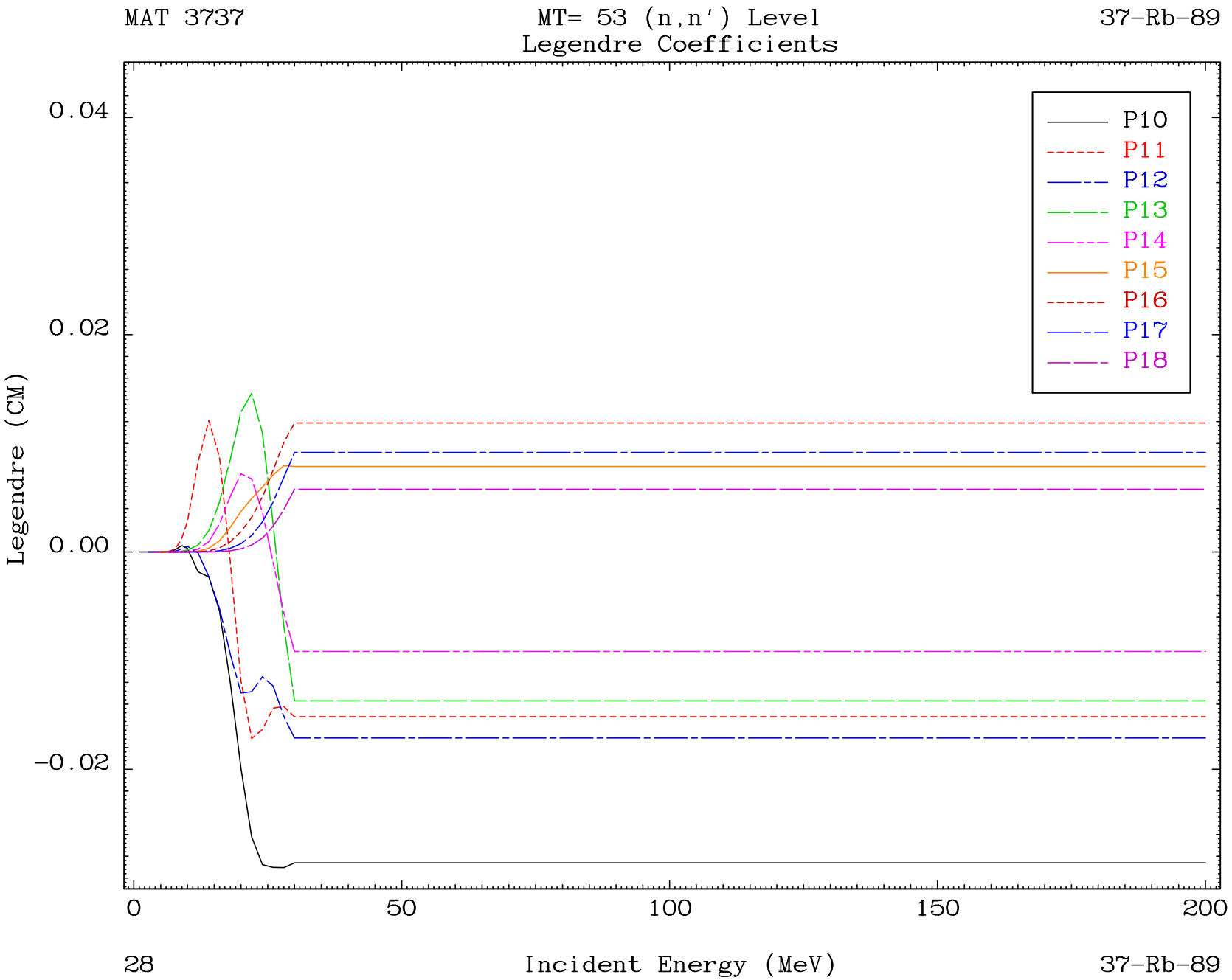

MAT 3737
MT= 52 (n,n') Level
Legendre Coefficients
37-Rb-89
0.5
0.4
0.3
0.2
0.1
0.0
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
23
Incident Energy (MeV)
37-Rb-89

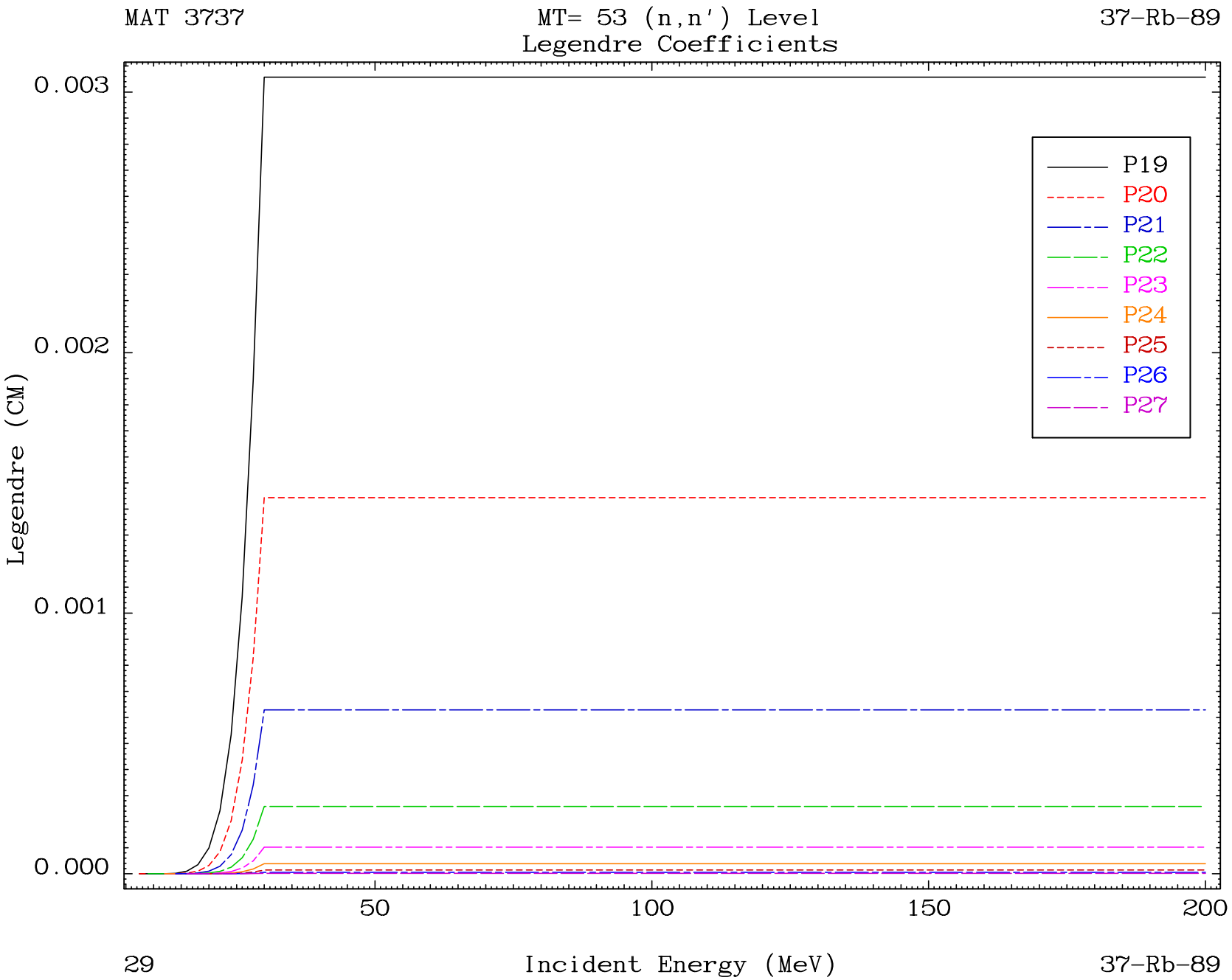

MAT 3737
MT= 52 (n,n') Level
Legendre Coefficients
37-Rb-89
0.04
0.02
0.00
-0.02
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
24
Incident Energy (MeV)
37-Rb-89

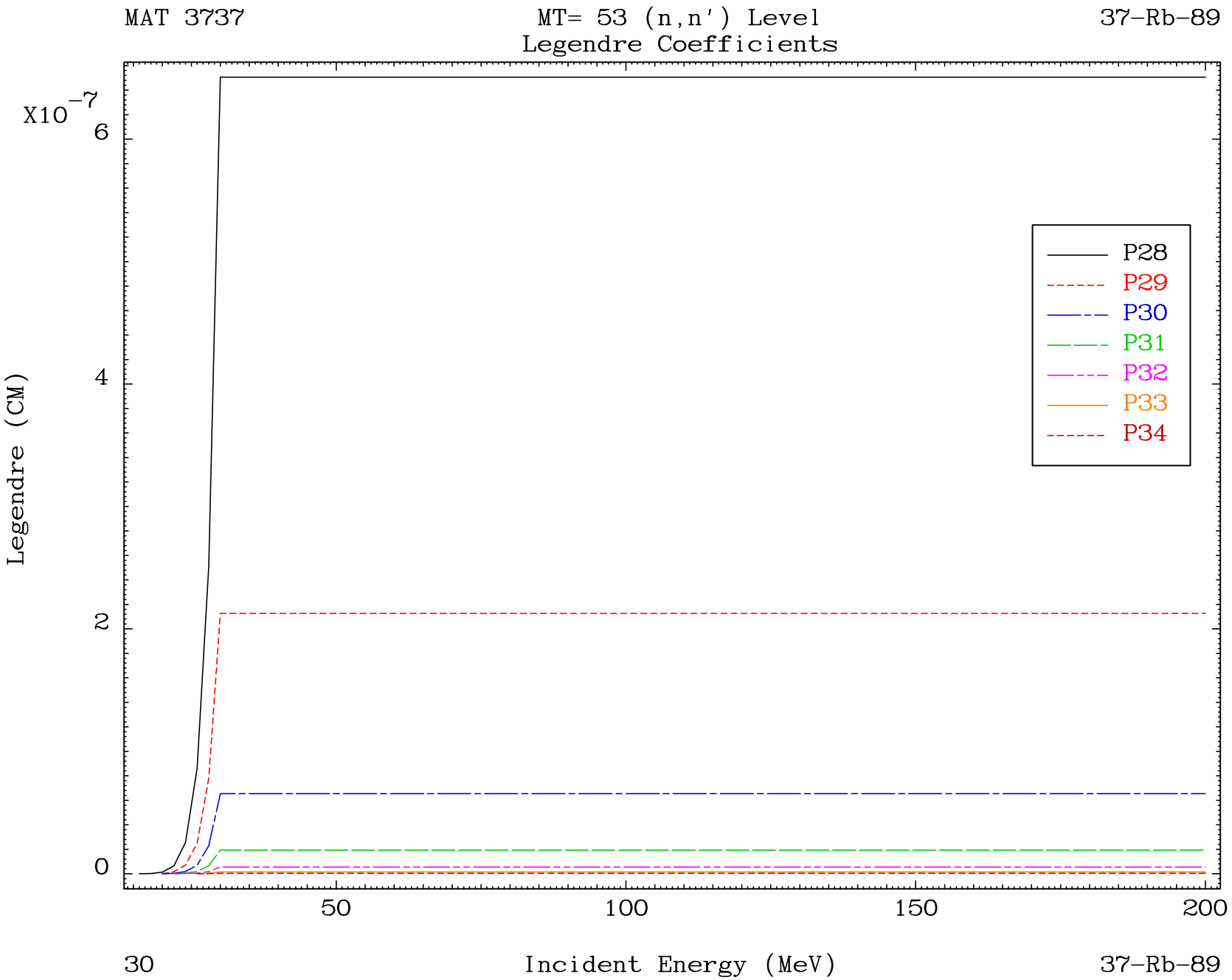

MAT 3737
MT= 52 (n,n') Level
Legendre Coefficients
37-Rb-89
0.003
0.002
0.001
0.000
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
25
Incident Energy (MeV)
37-Rb-89

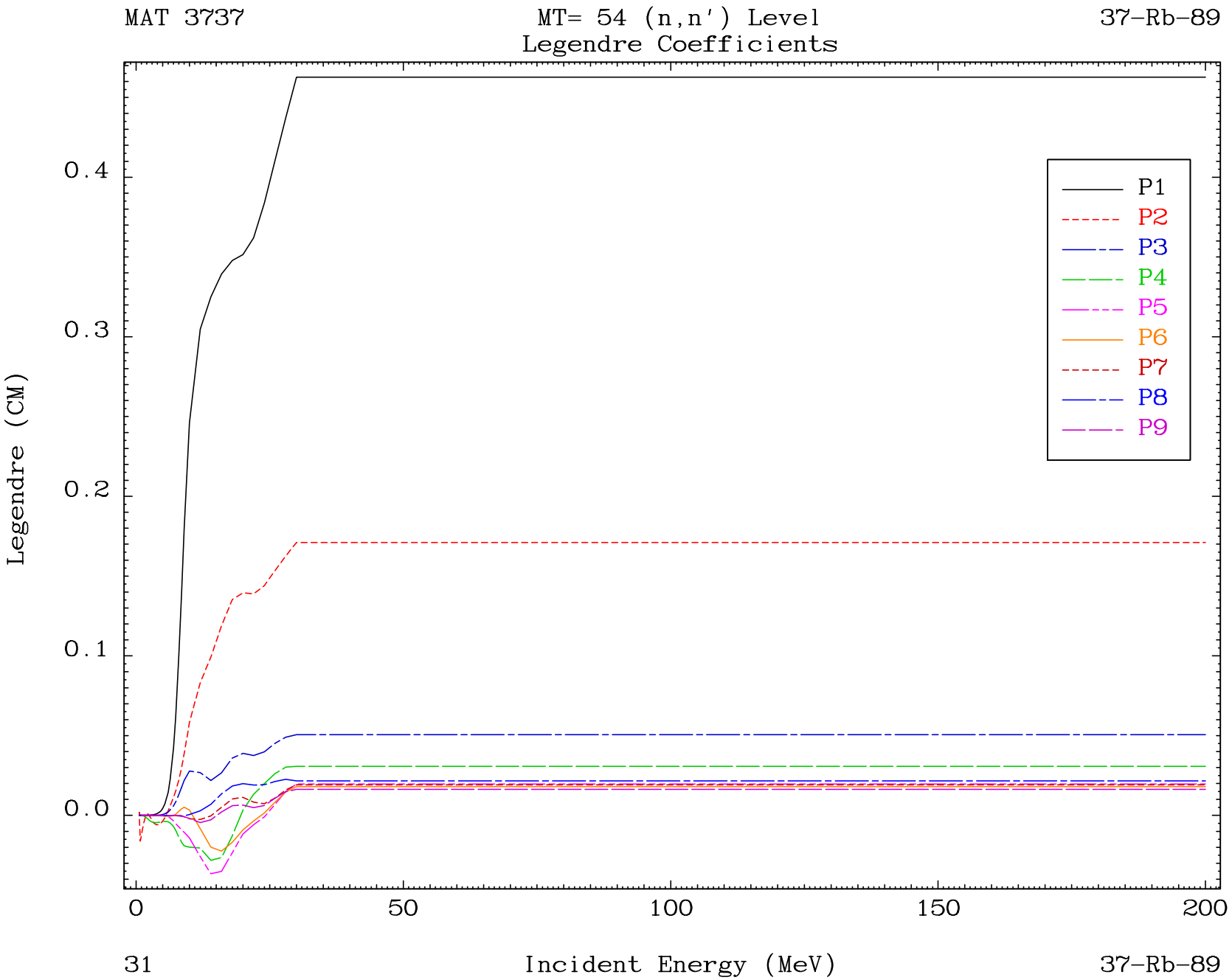

MAT 3737
MT= 52 (n,n') Level
Legendre Coefficients
37-Rb-89
X10^-7
6
4
2
0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
26
Incident Energy (MeV)
37-Rb-89

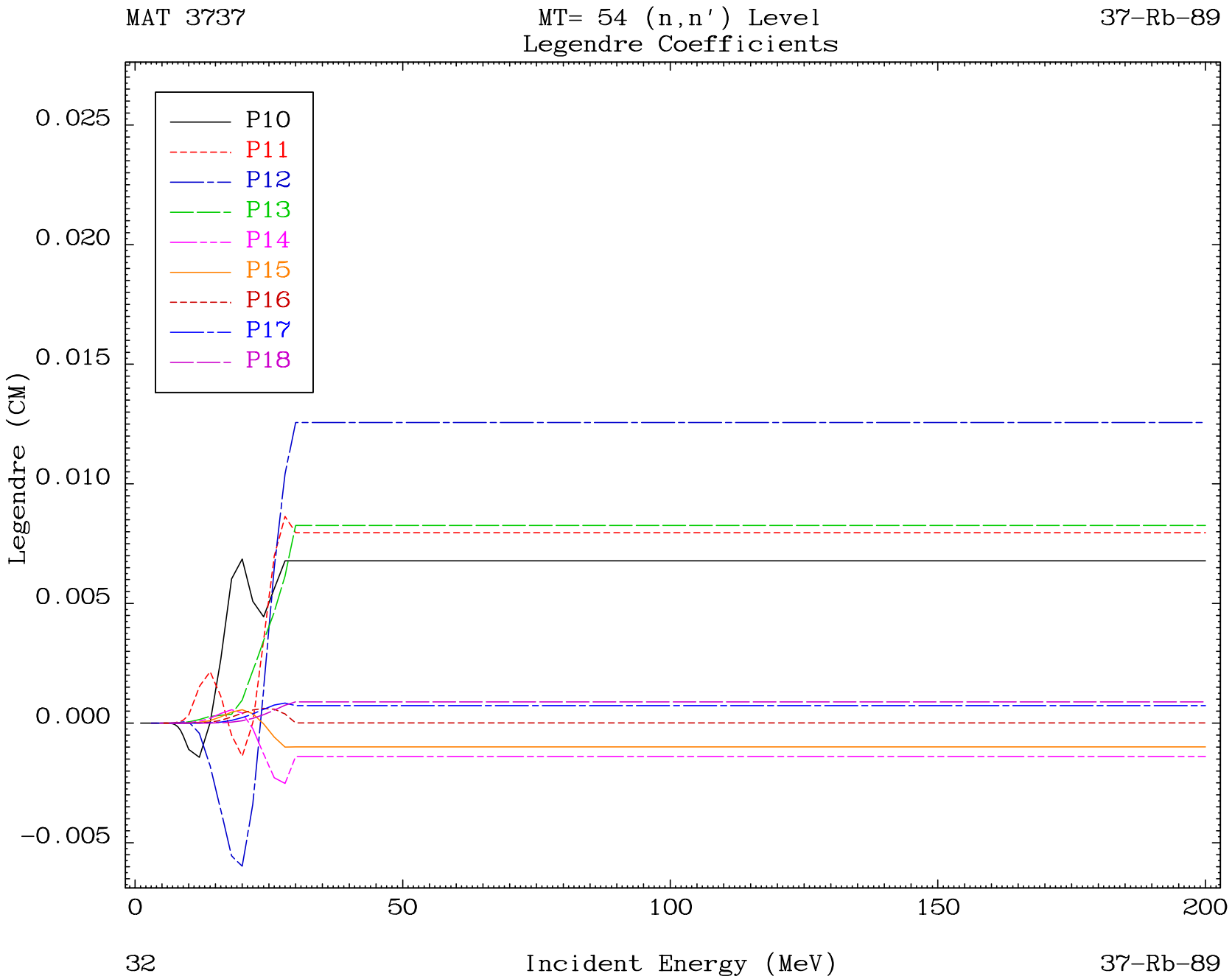

MAT 3737
MT= 53 (n,n') Level
Legendre Coefficients
37-Rb-89
Legendre (CM)
0.5
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
27
Incident Energy (MeV)
37-Rb-89

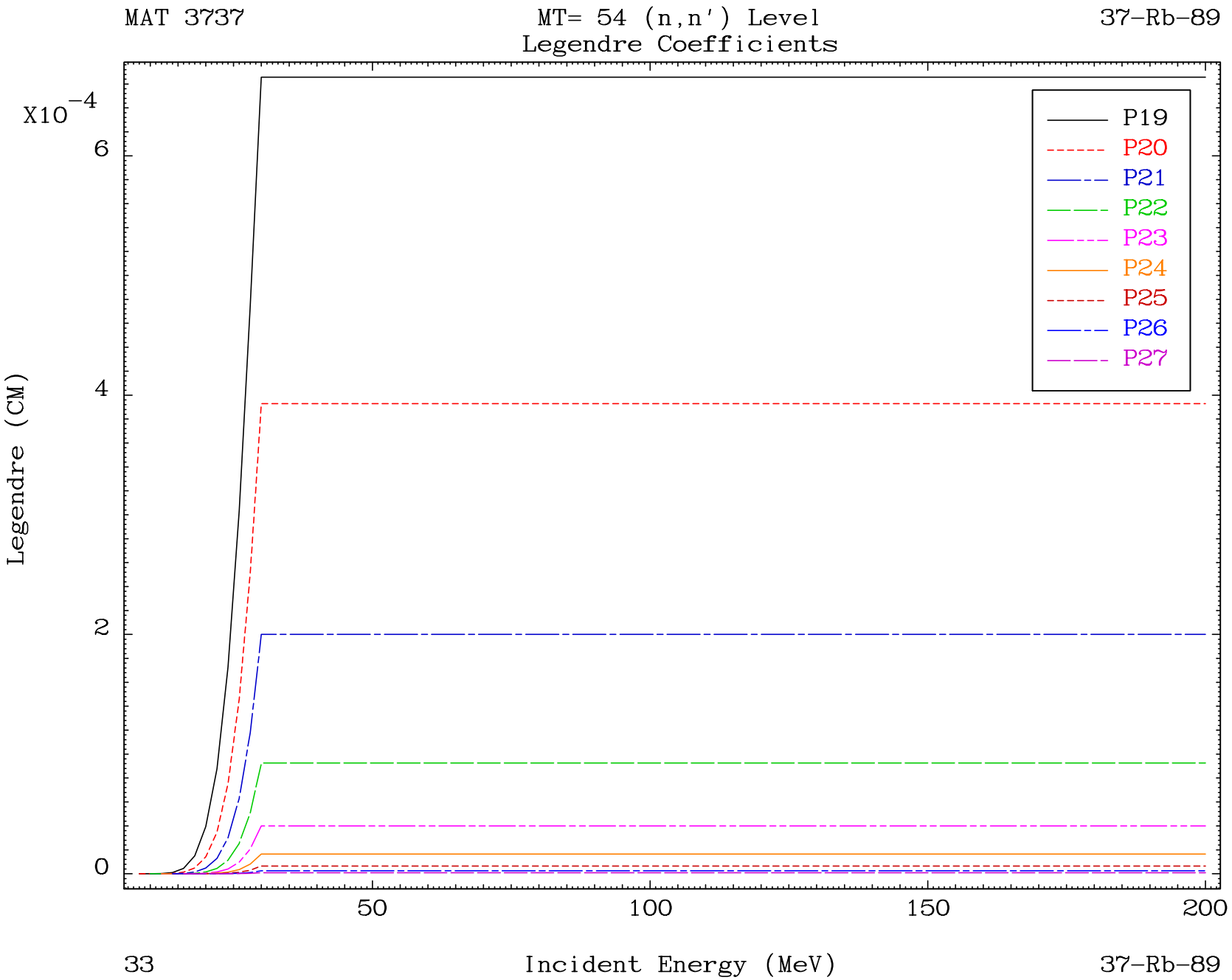

MAT 3737
MT= 53 (n,n') Level
Legendre Coefficients
37-Rb-89
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.04
0.02
0.00
-0.02
Legendre (CM)
0
50
100
150
200
28
Incident Energy (MeV)
37-Rb-89

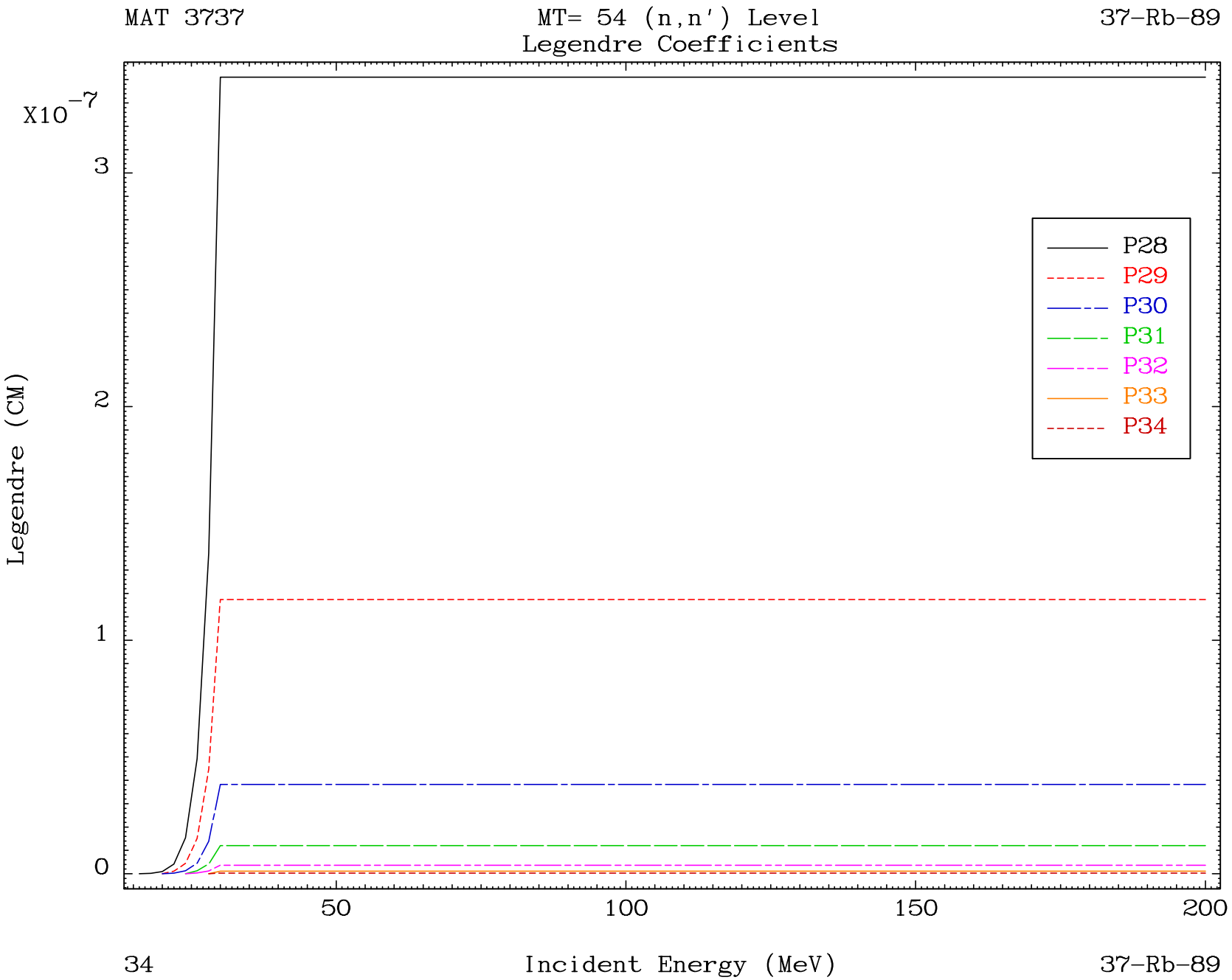

MAT 3737
MT= 53 (n,n') Level
Legendre Coefficients
37-Rb-89
0.003
0.002
0.001
0.000
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
29
Incident Energy (MeV)
37-Rb-89

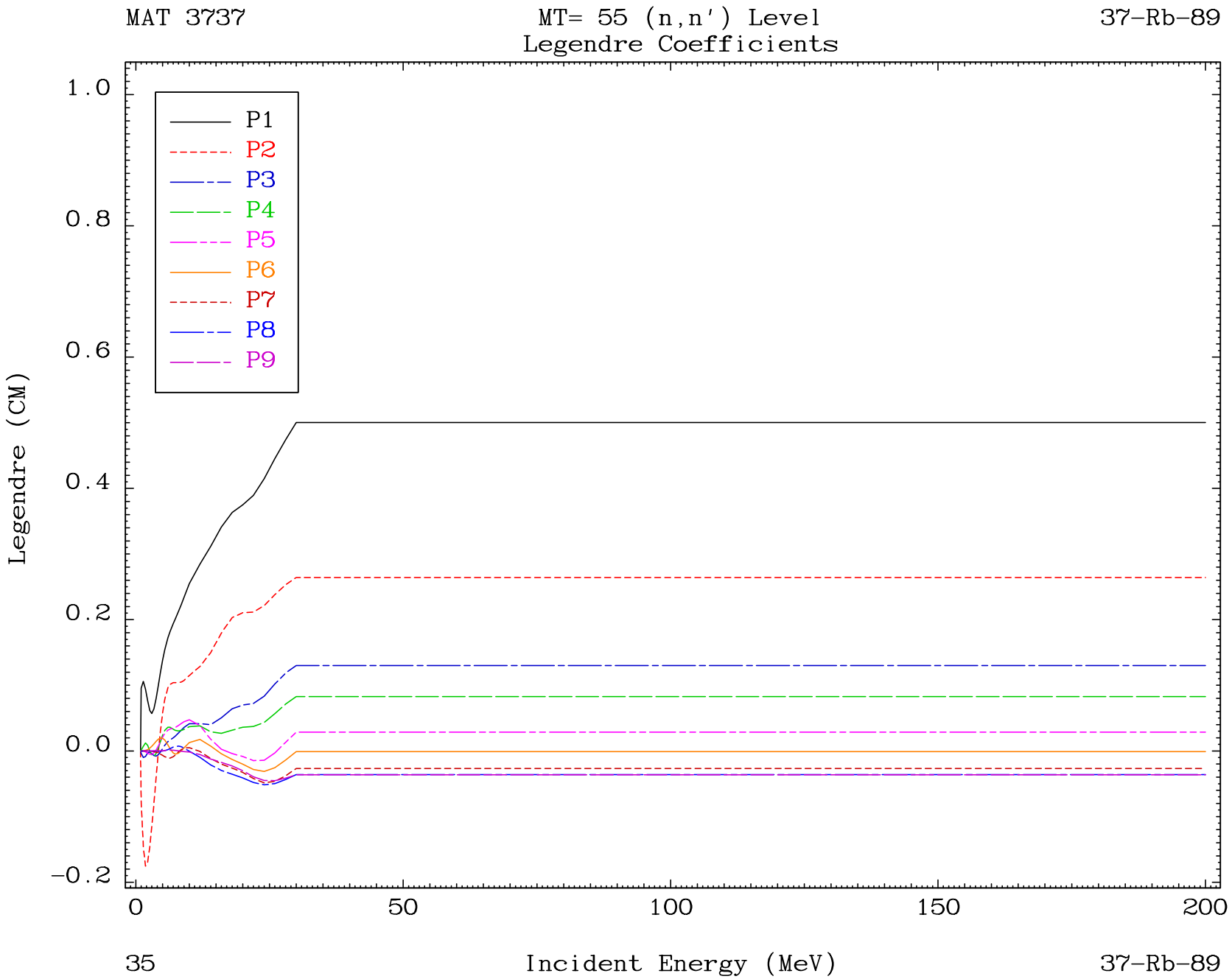

MAT 3737
MT= 53 (n,n') Level
Legendre Coefficients
37-Rb-89
X10 -7
6
4
2
0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
30
50
100
150
200
Incident Energy (MeV)
37-Rb-89

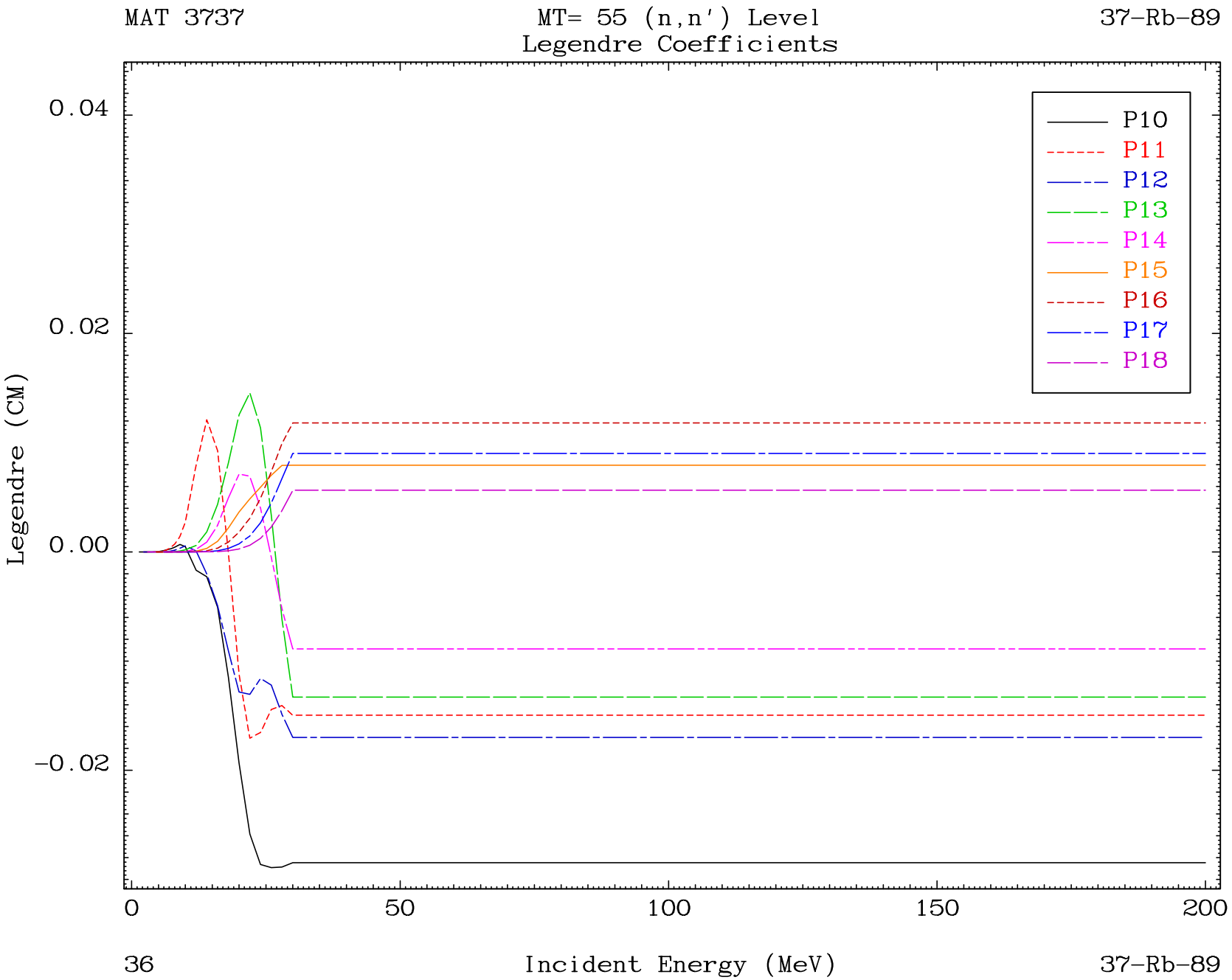

MAT 3737
MT= 54 (n,n') Level
Legendre Coefficients
37-Rb-89
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
31
Incident Energy (MeV)
37-Rb-89

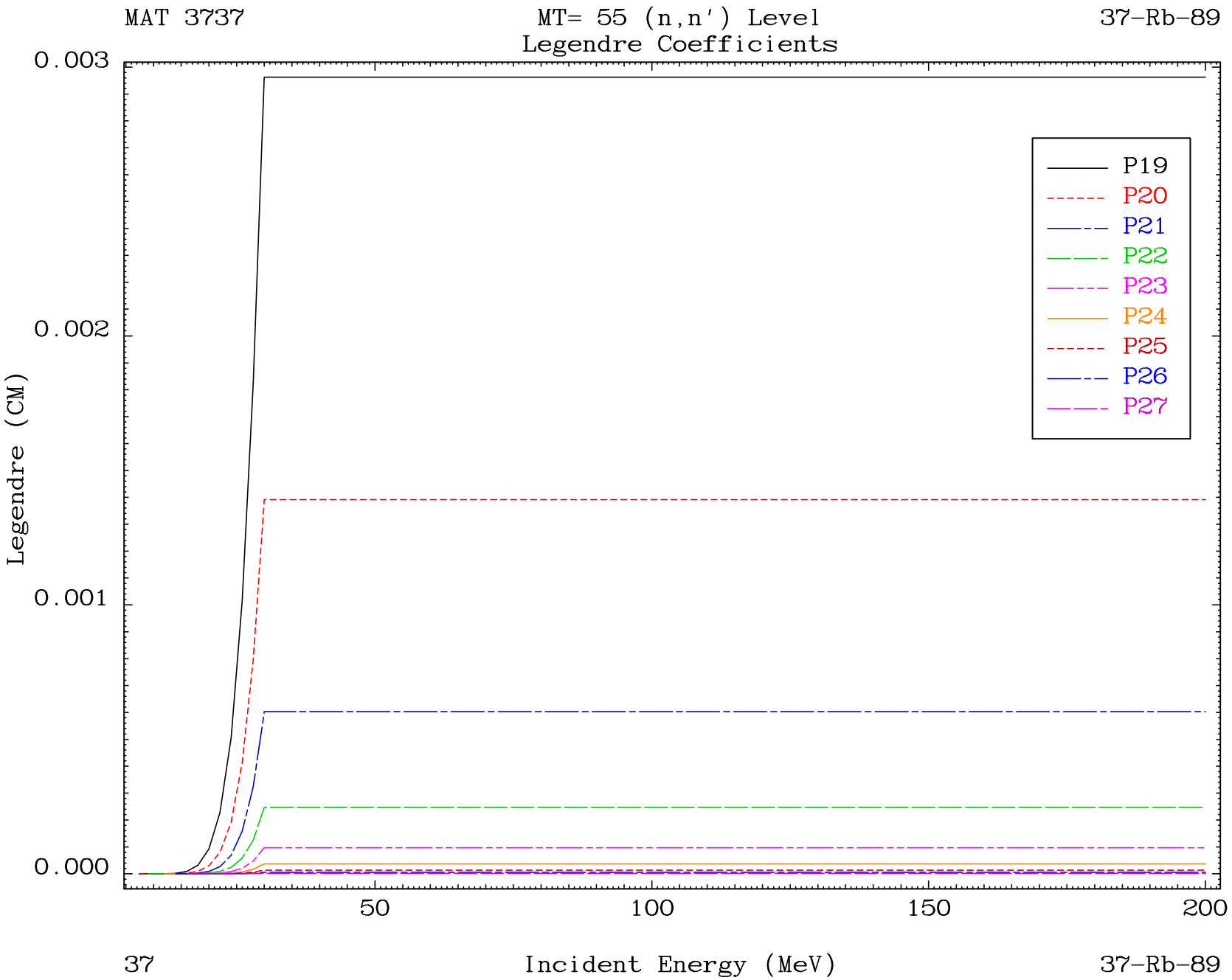

MAT 3737
MT= 54 (n,n') Level
Legendre Coefficients
37-Rb-89
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.025
0.020
0.015
0.010
0.005
0.000
-0.005
Legendre (CM)
0
50
100
150
200
32
Incident Energy (MeV)
37-Rb-89

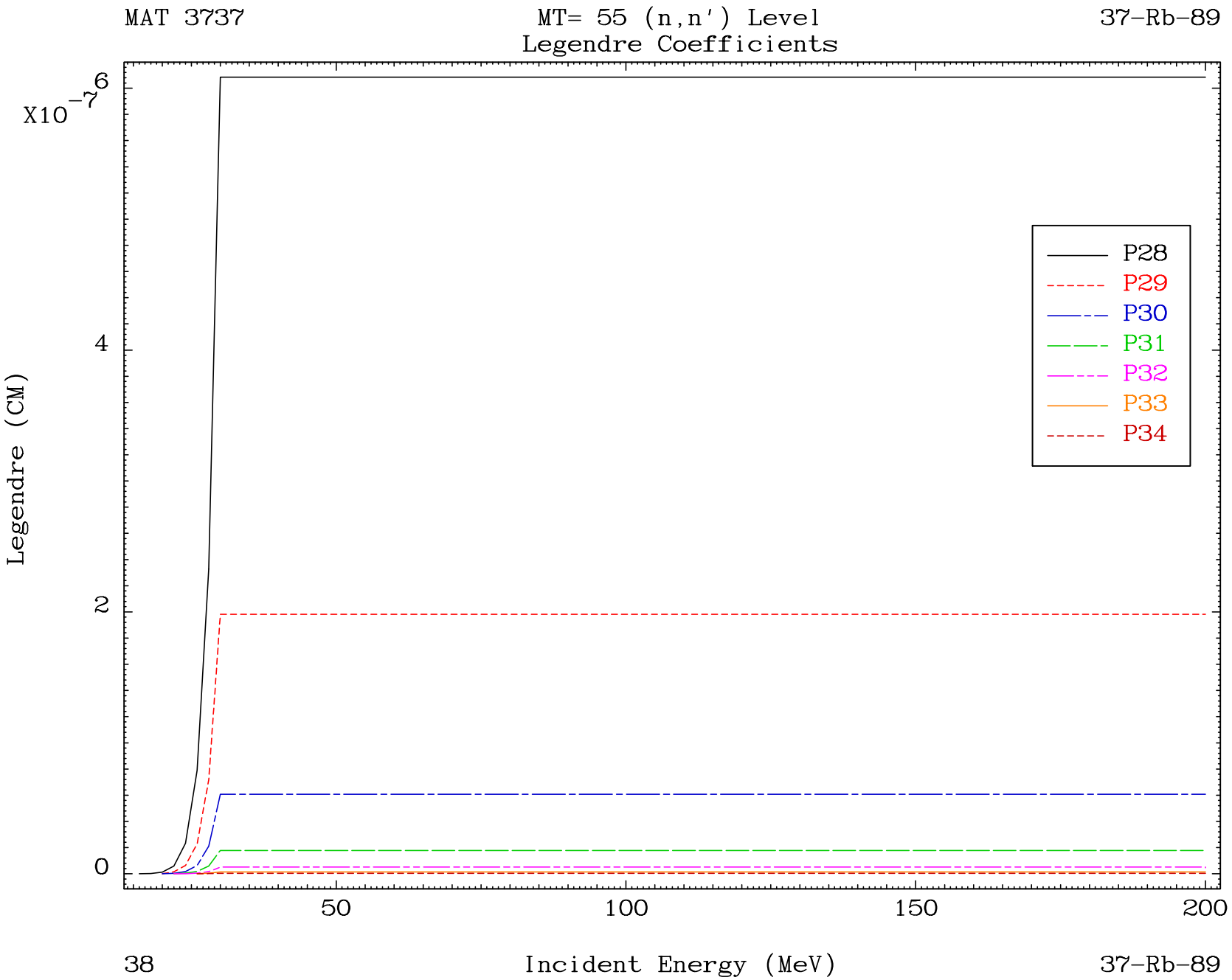

MAT 3737
MT= 54 (n,n') Level
Legendre Coefficients
37-Rb-89
X10^-4
6
4
2
0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
33
Incident Energy (MeV)
37-Rb-89

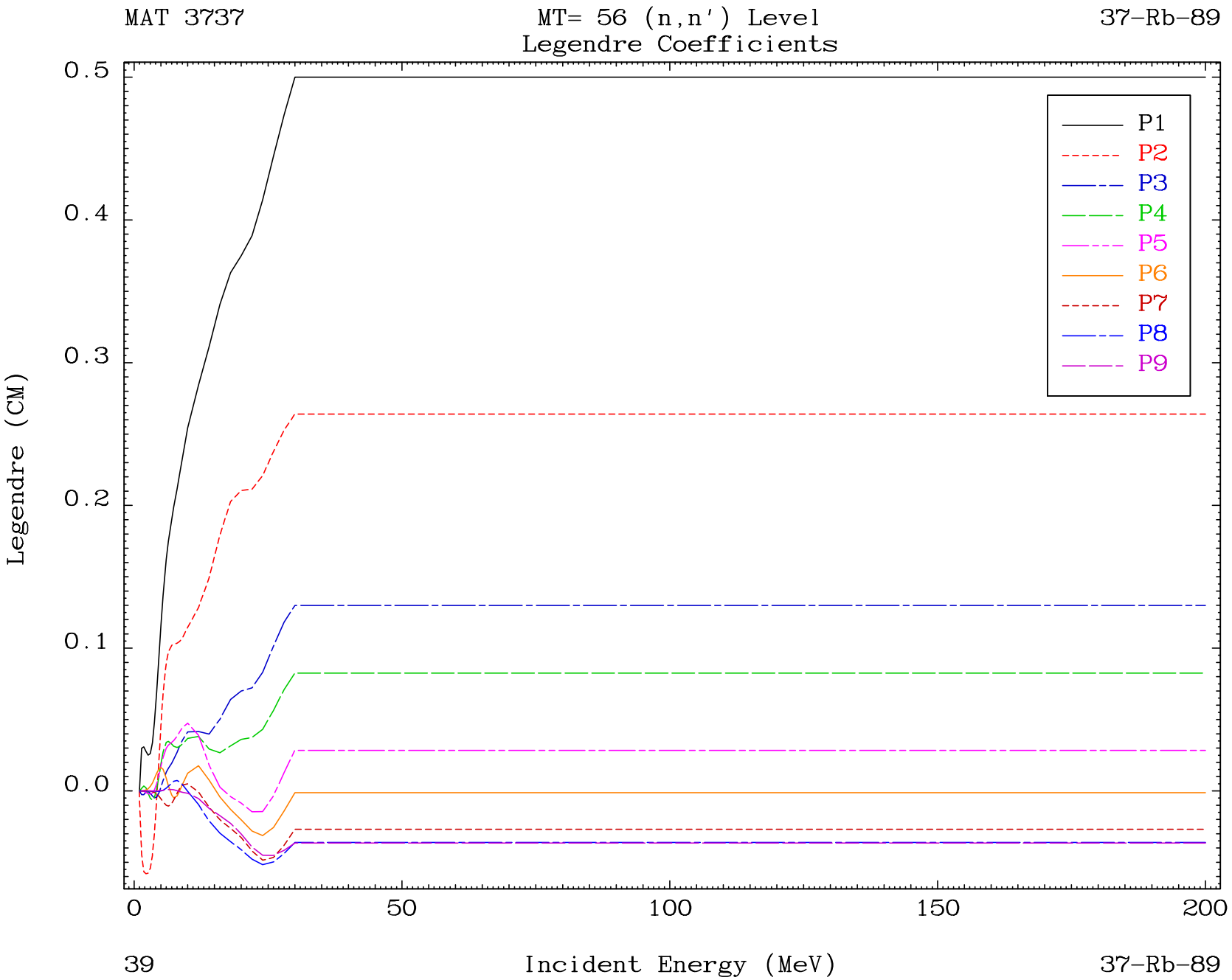

MAT 3737
MT= 54 (n,n') Level
Legendre Coefficients
37-Rb-89
X10-7
3
2
1
0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
34
Incident Energy (MeV)
37-Rb-89

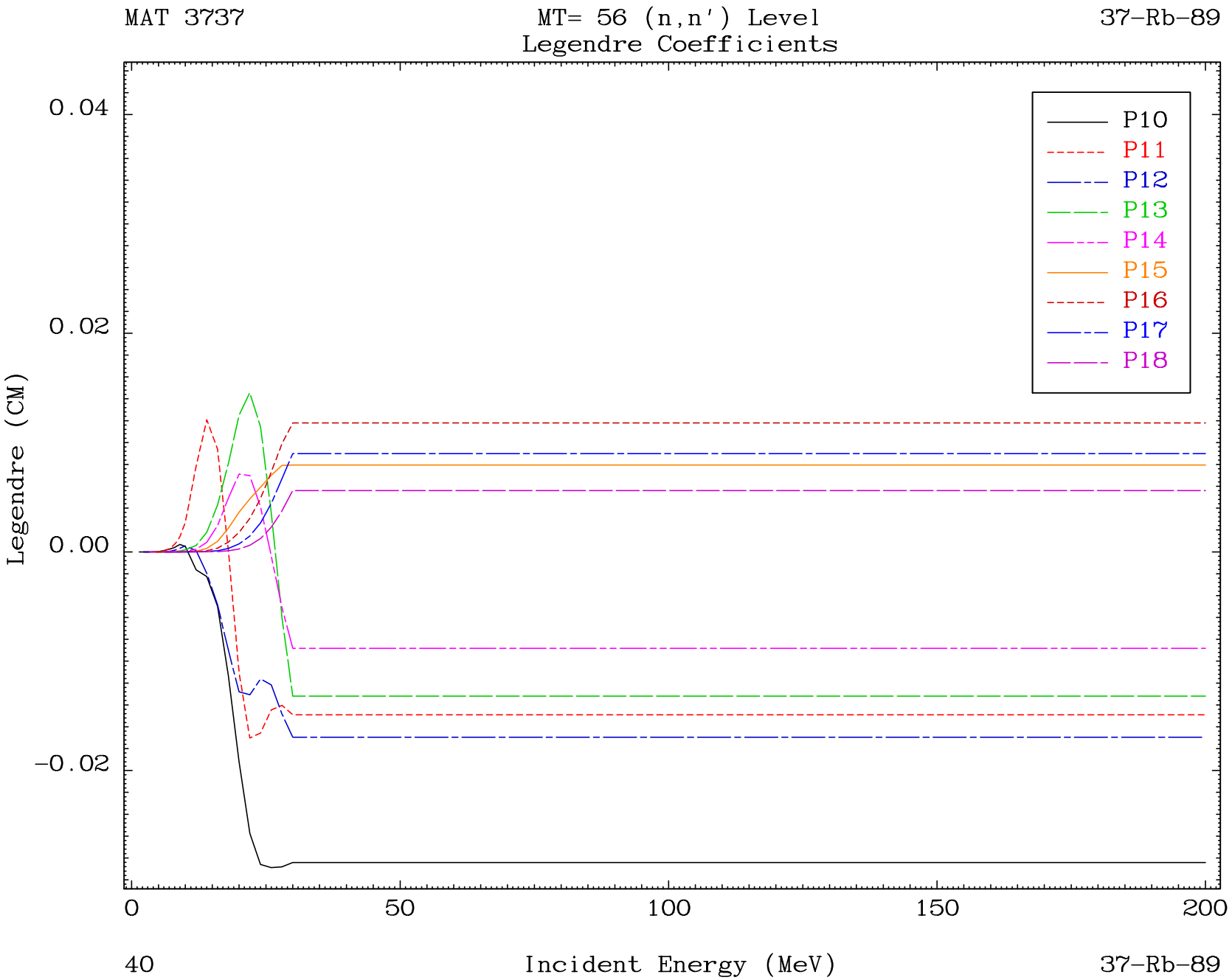

MAT 3737
MT= 55 (n,n') Level
Legendre Coefficients
37-Rb-89
P1
P2
P3
P4
P5
P6
P7
P8
P9
1.0
0.8
0.6
0.4
0.2
0.0
-0.2
Legendre (CM)
0
50
100
150
200
35
Incident Energy (MeV)
37-Rb-89

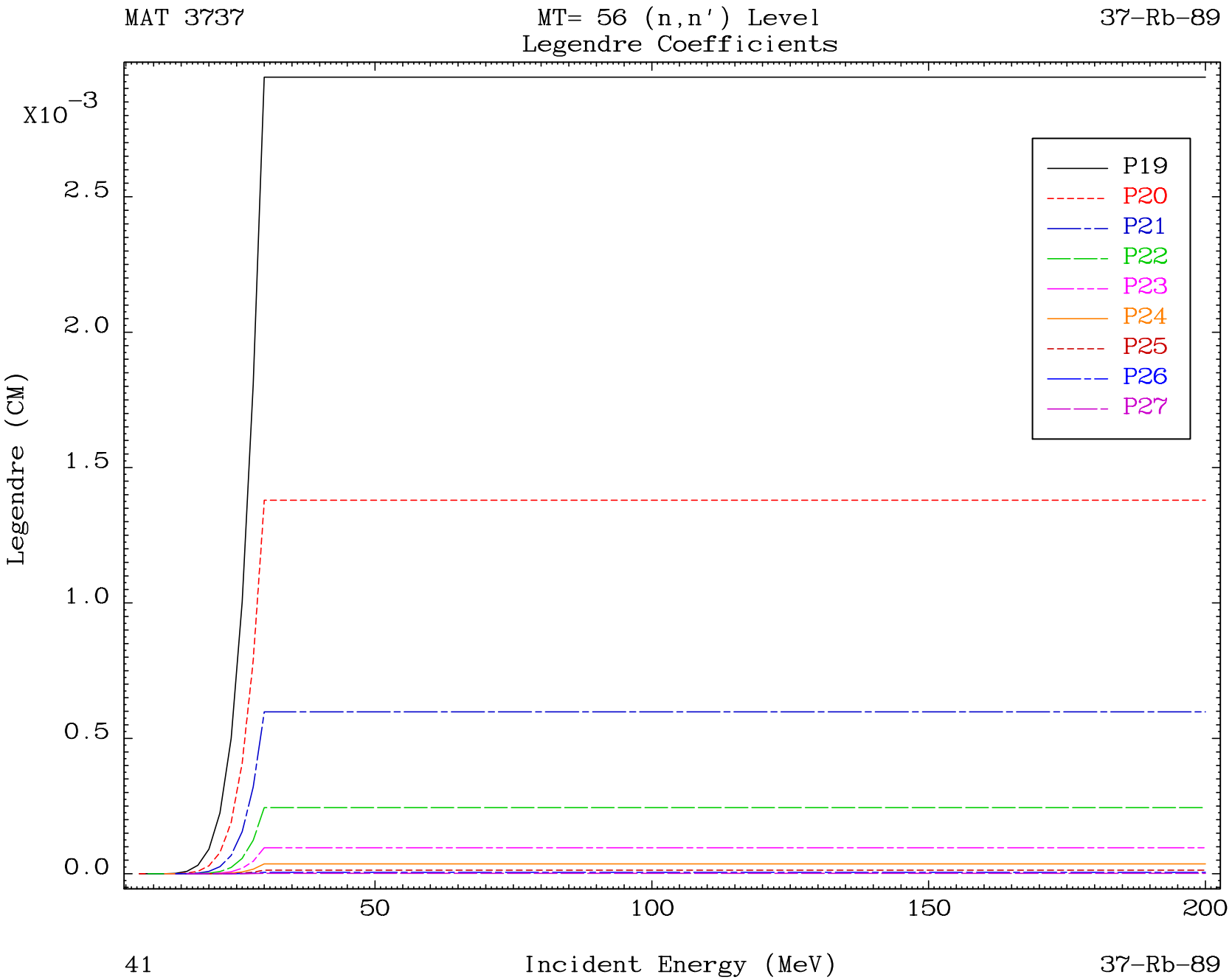

MAT 3737
MT= 55 (n,n') Level
Legendre Coefficients
37-Rb-89
0.04
0.02
0.00
-0.02
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
36
Incident Energy (MeV)
37-Rb-89

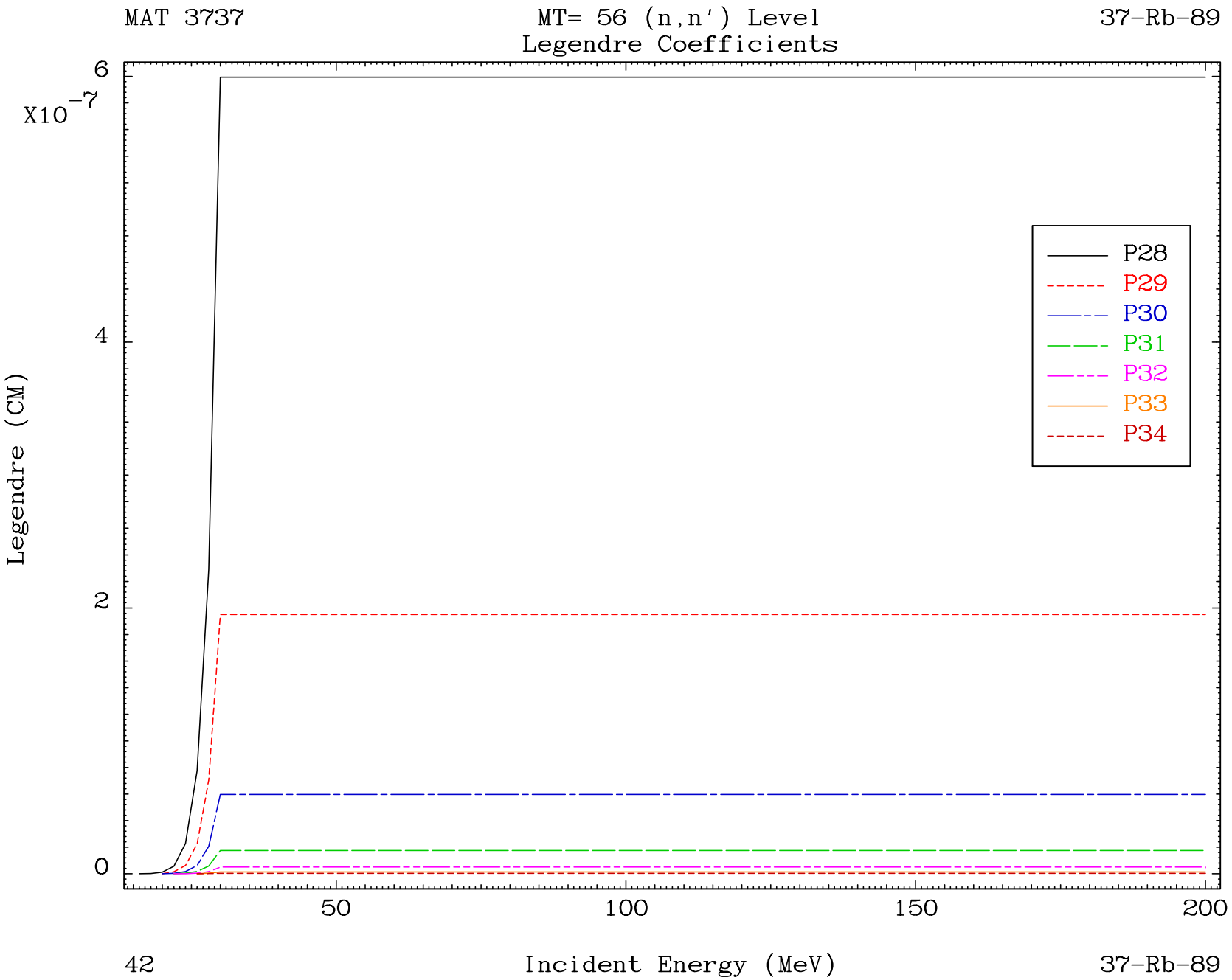

MAT 3737
MT= 55 (n,n') Level
Legendre Coefficients
37-Rb-89
0.003
0.002
0.001
0.000
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
37
Incident Energy (MeV)
37-Rb-89

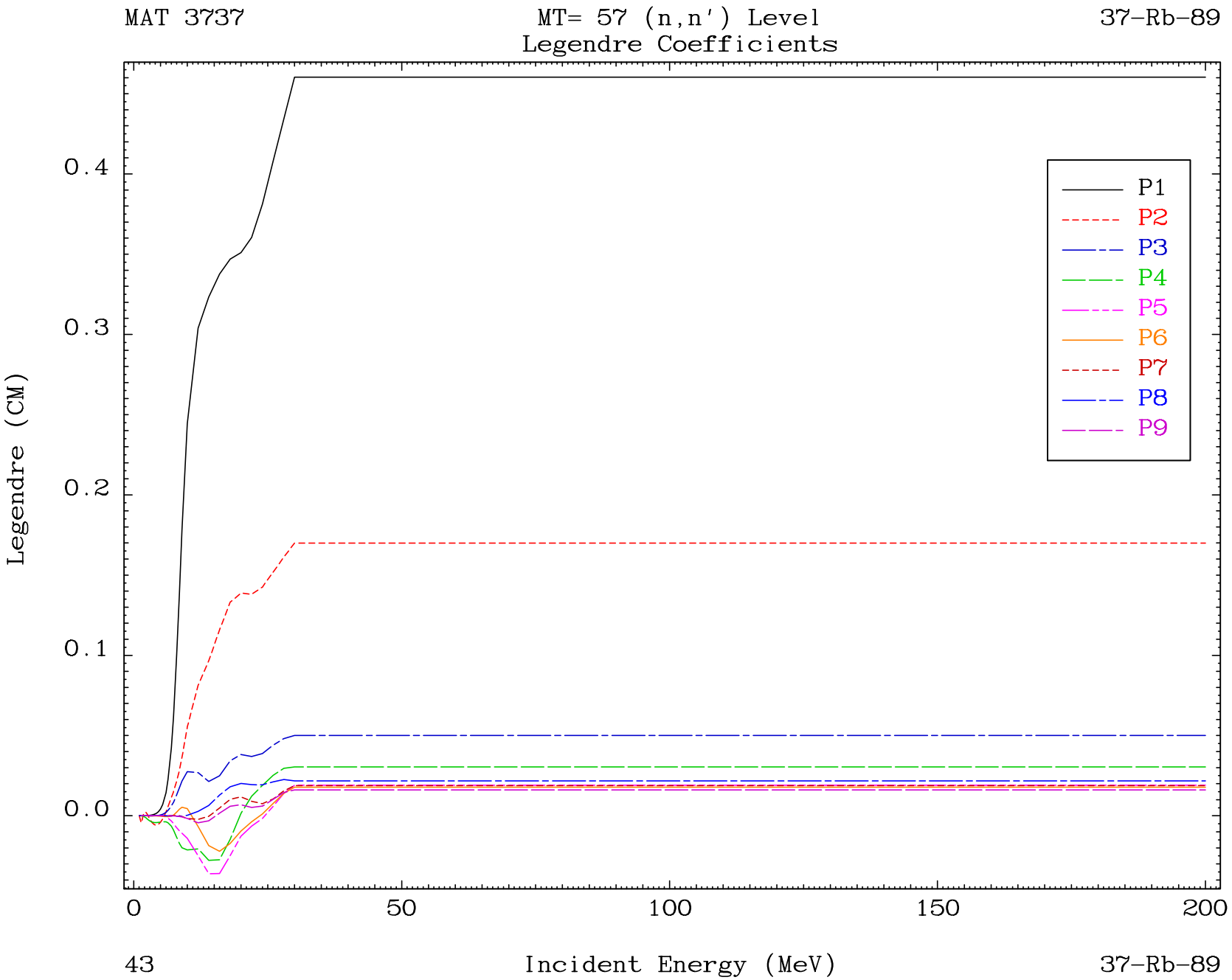

MAT 3737
MT= 55 (n,n') Level
Legendre Coefficients
37-Rb-89
X10-6
4
2
0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
38
Incident Energy (MeV)
37-Rb-89

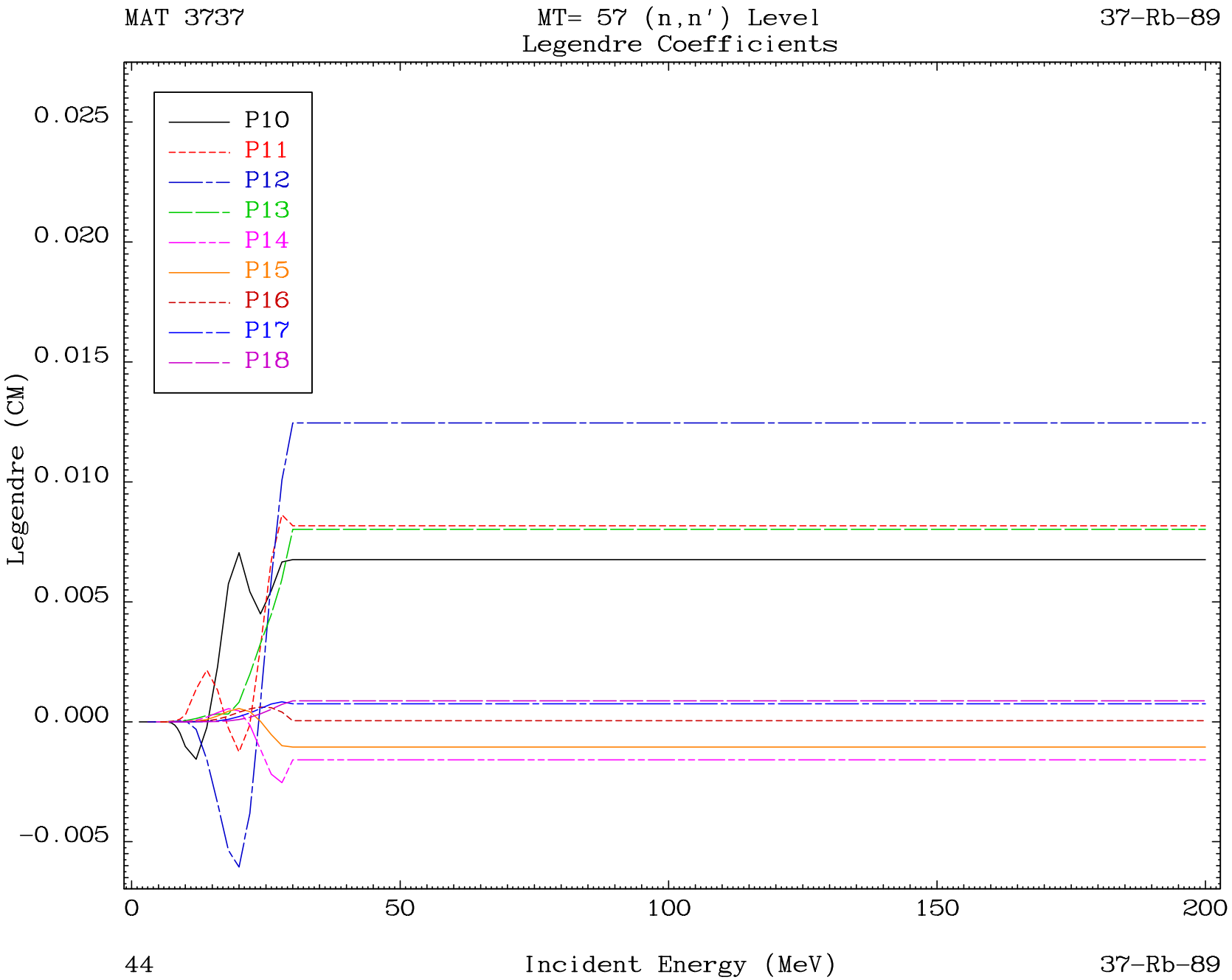

MAT 3737
MT= 56 (n,n') Level
Legendre Coefficients
37-Rb-89
Legendre (CM)
0.5
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
39
Incident Energy (MeV)
37-Rb-89

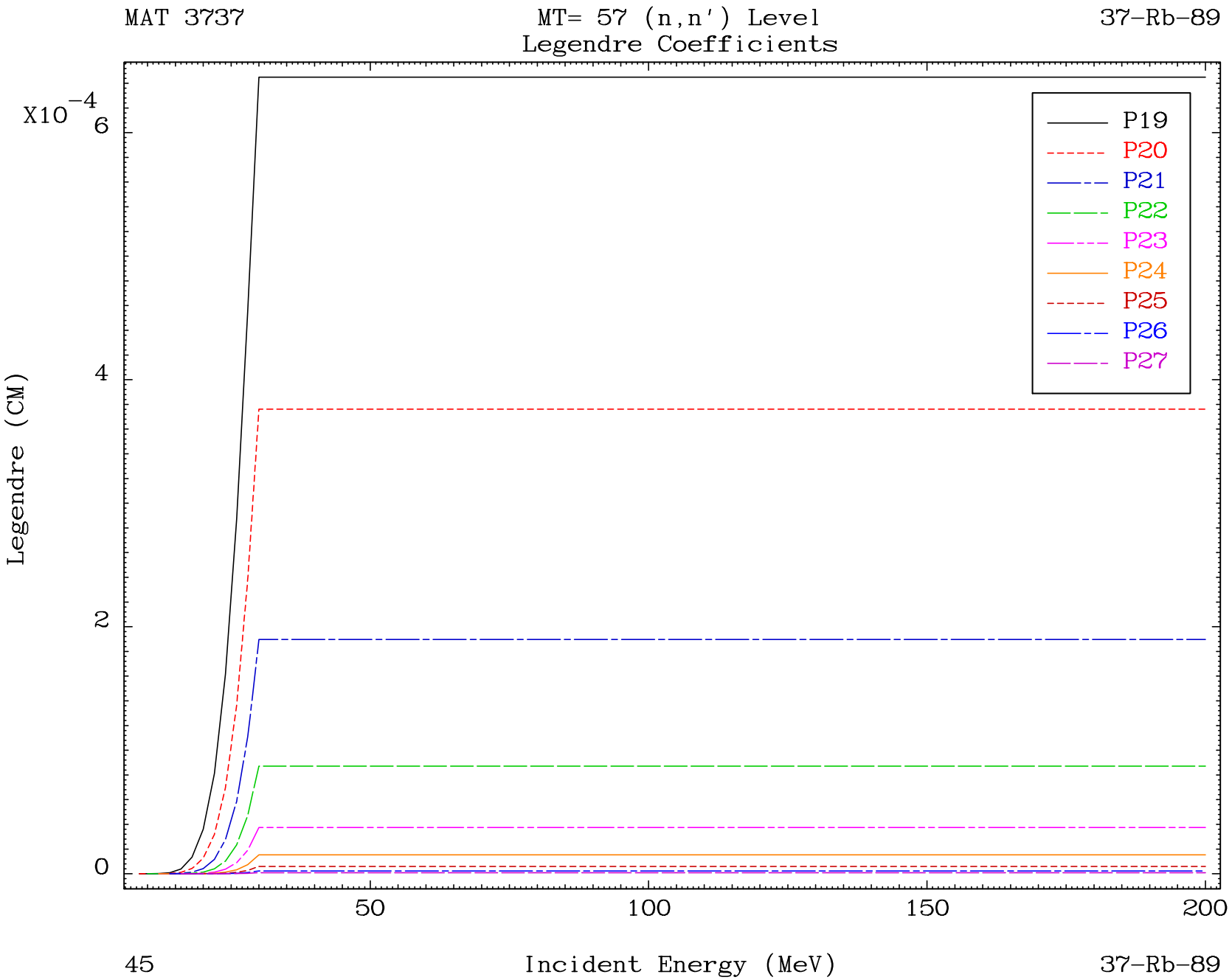

MAT 3737
MT= 56 (n,n') Level
Legendre Coefficients
37-Rb-89
0.04
0.02
0.00
-0.02
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
40
Incident Energy (MeV)
37-Rb-89

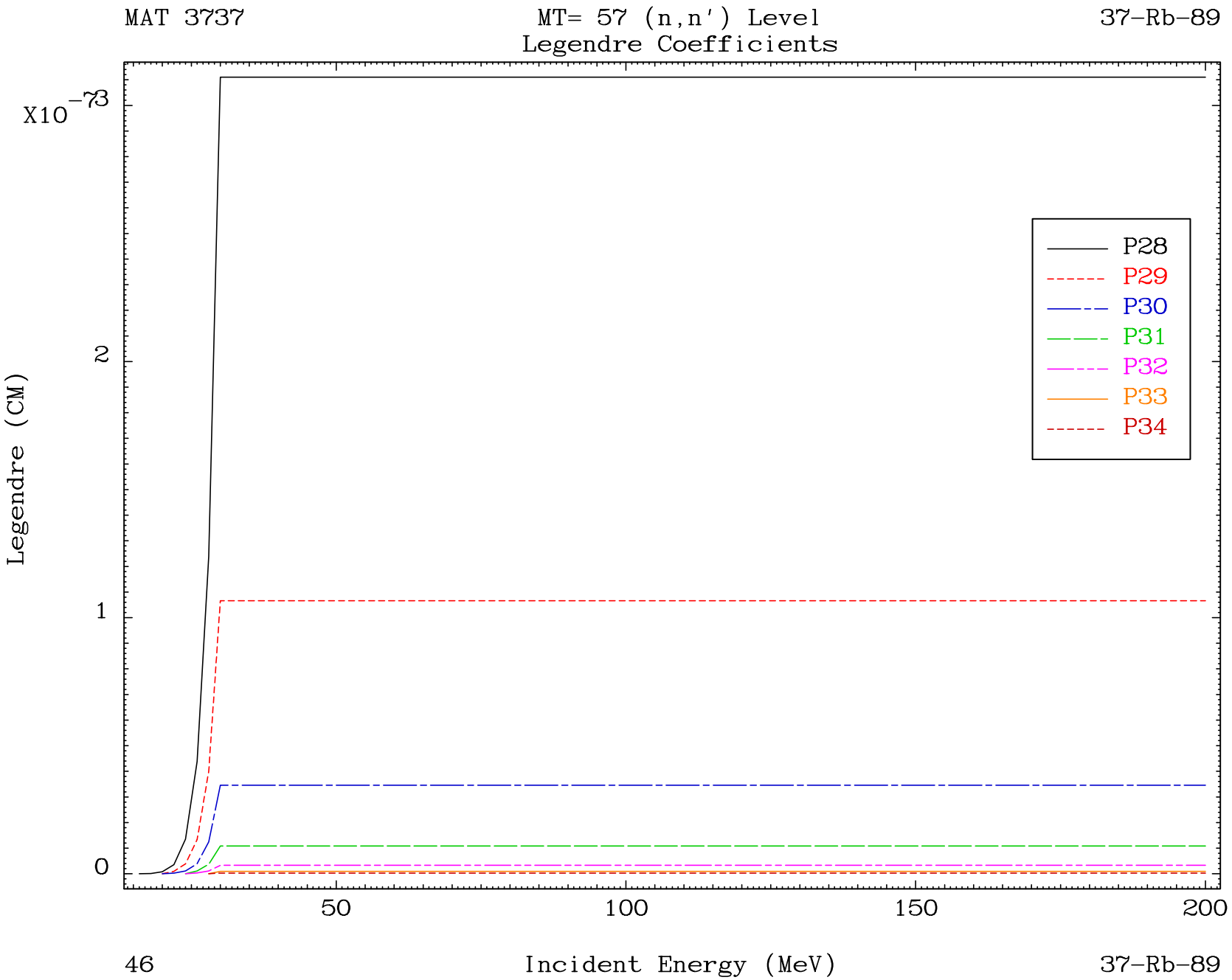

MAT 3737
MT= 56 (n,n') Level
Legendre Coefficients
37-Rb-89
X10-3
2.5
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
41
Incident Energy (MeV)
37-Rb-89

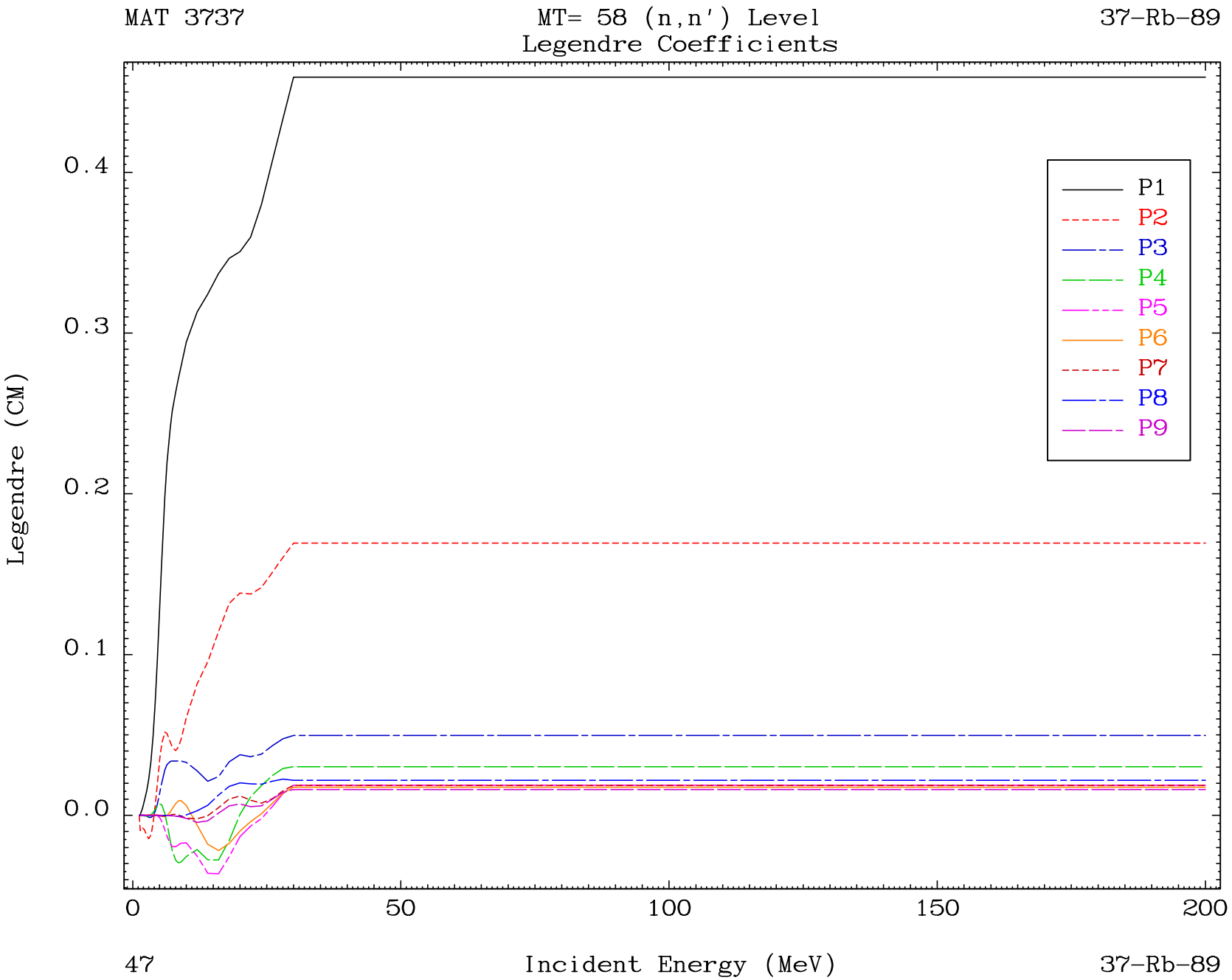

MAT 3737
MT= 56 (n,n') Level
Legendre Coefficients
37-Rb-89
X10^-7
6
4
2
0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
42
Incident Energy (MeV)
37-Rb-89

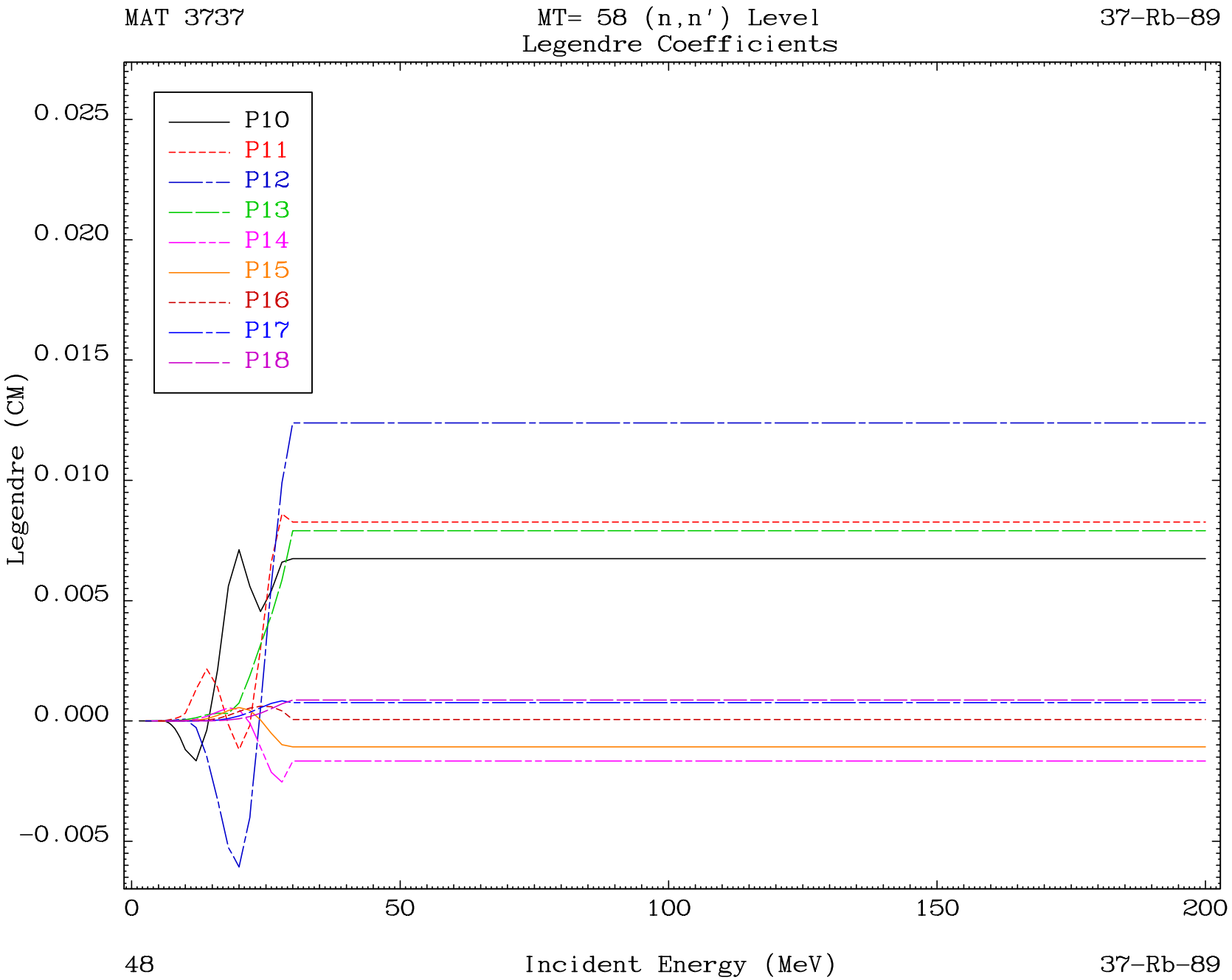

MAT 3737
MT= 57 (n,n') Level
Legendre Coefficients
37-Rb-89
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
43
Incident Energy (MeV)
37-Rb-89

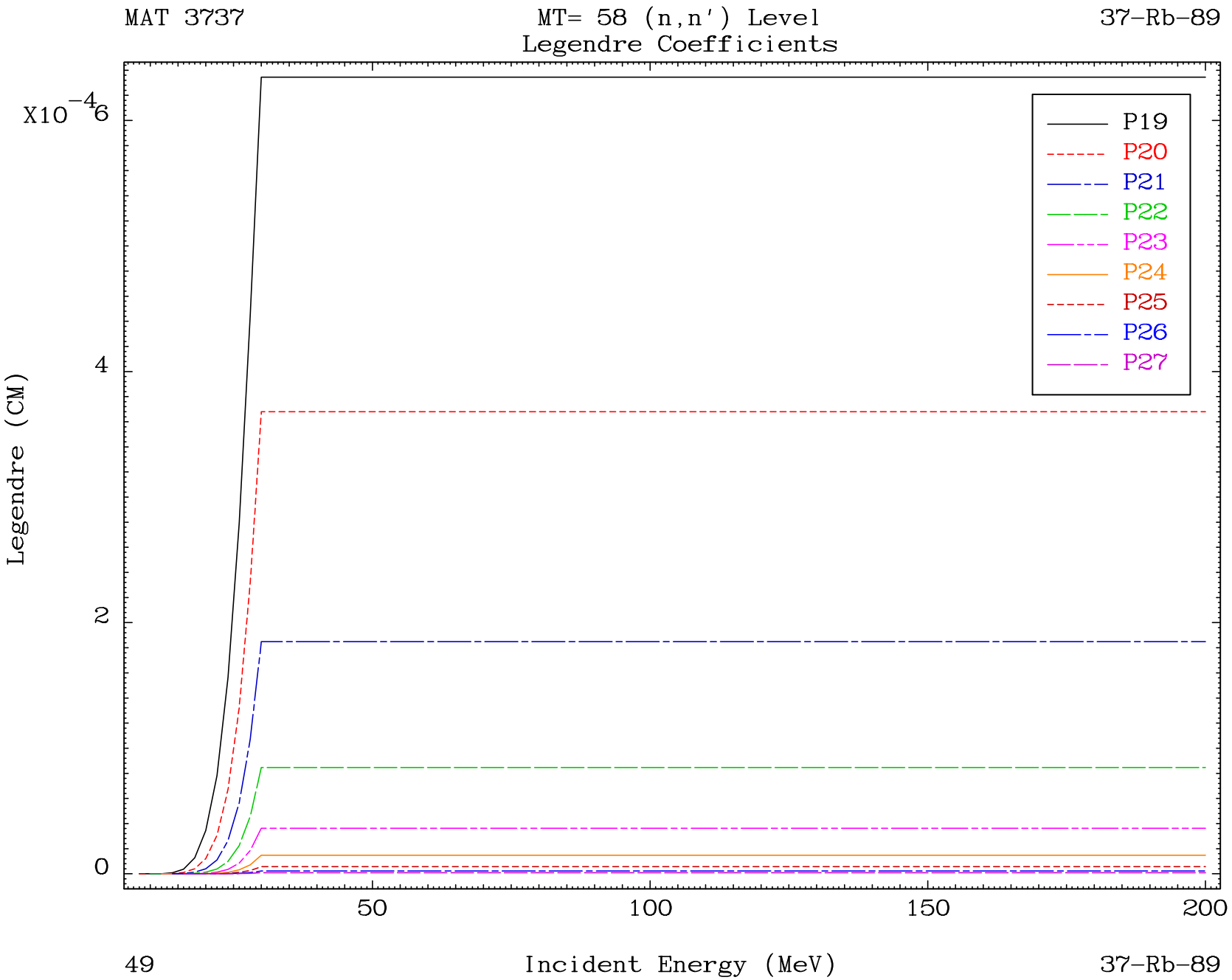

MAT 3737
MT= 57 (n,n') Level
Legendre Coefficients
37-Rb-89
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.025
0.020
0.015
0.010
0.005
0.000
-0.005
Legendre (CM)
0
50
100
150
200
44
Incident Energy (MeV)
37-Rb-89

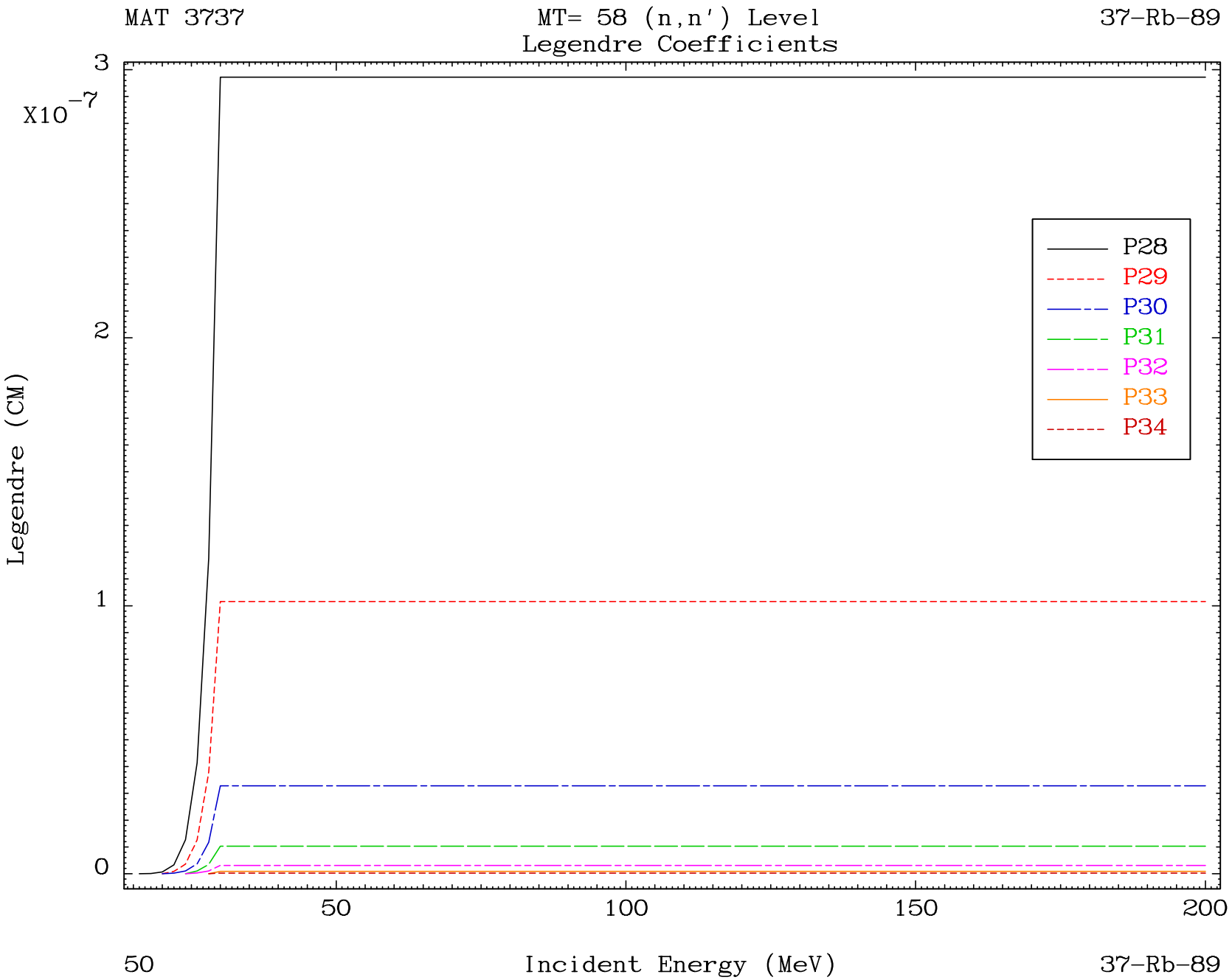

MAT 3737
MT= 57 (n,n') Level
Legendre Coefficients
37-Rb-89
X10 -4
6
4
2
0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
45
Incident Energy (MeV)
37-Rb-89

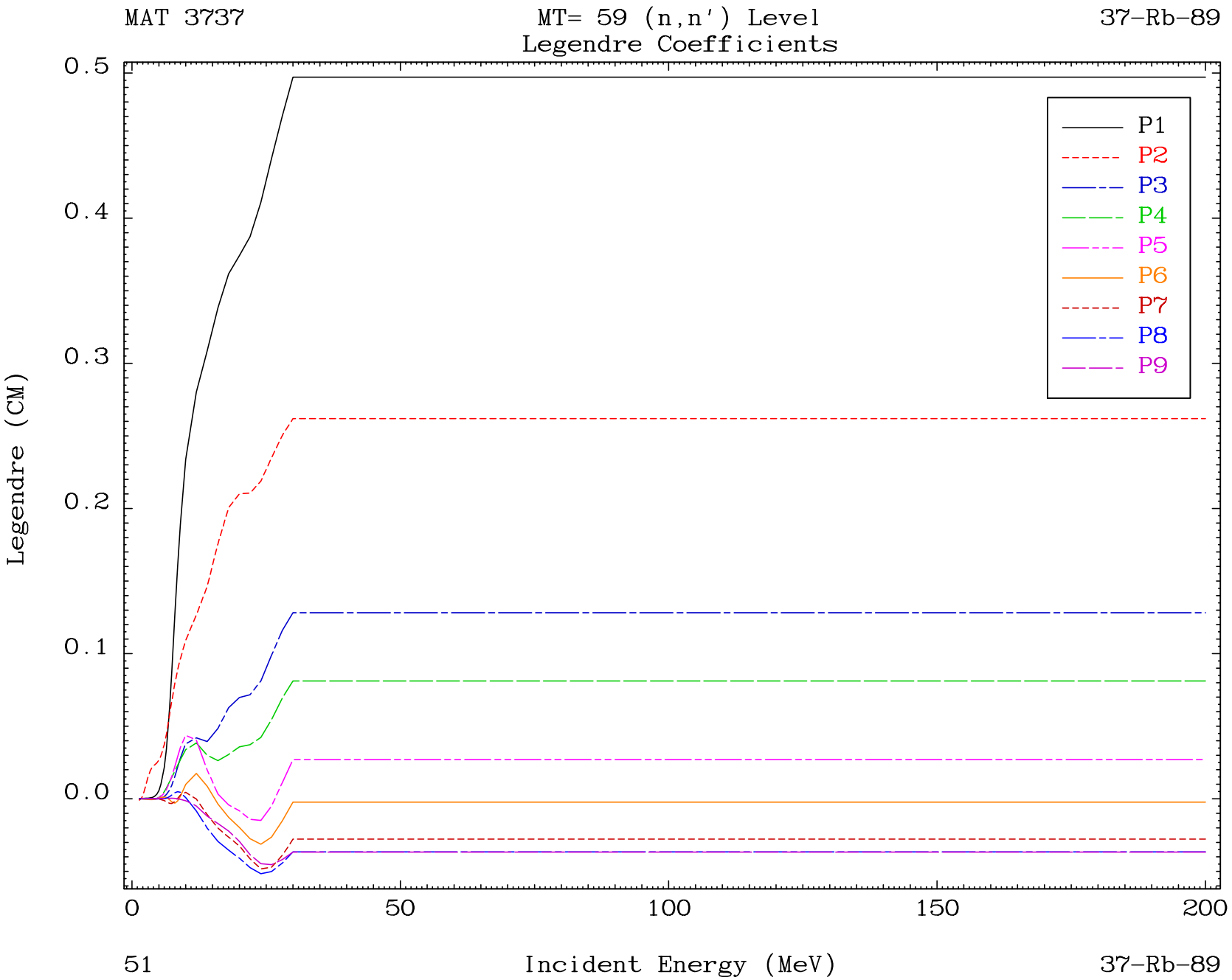

MAT 3737
MT= 57 (n,n') Level
Legendre Coefficients
37-Rb-89
X10-3
2
1
0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
46
Incident Energy (MeV)
37-Rb-89

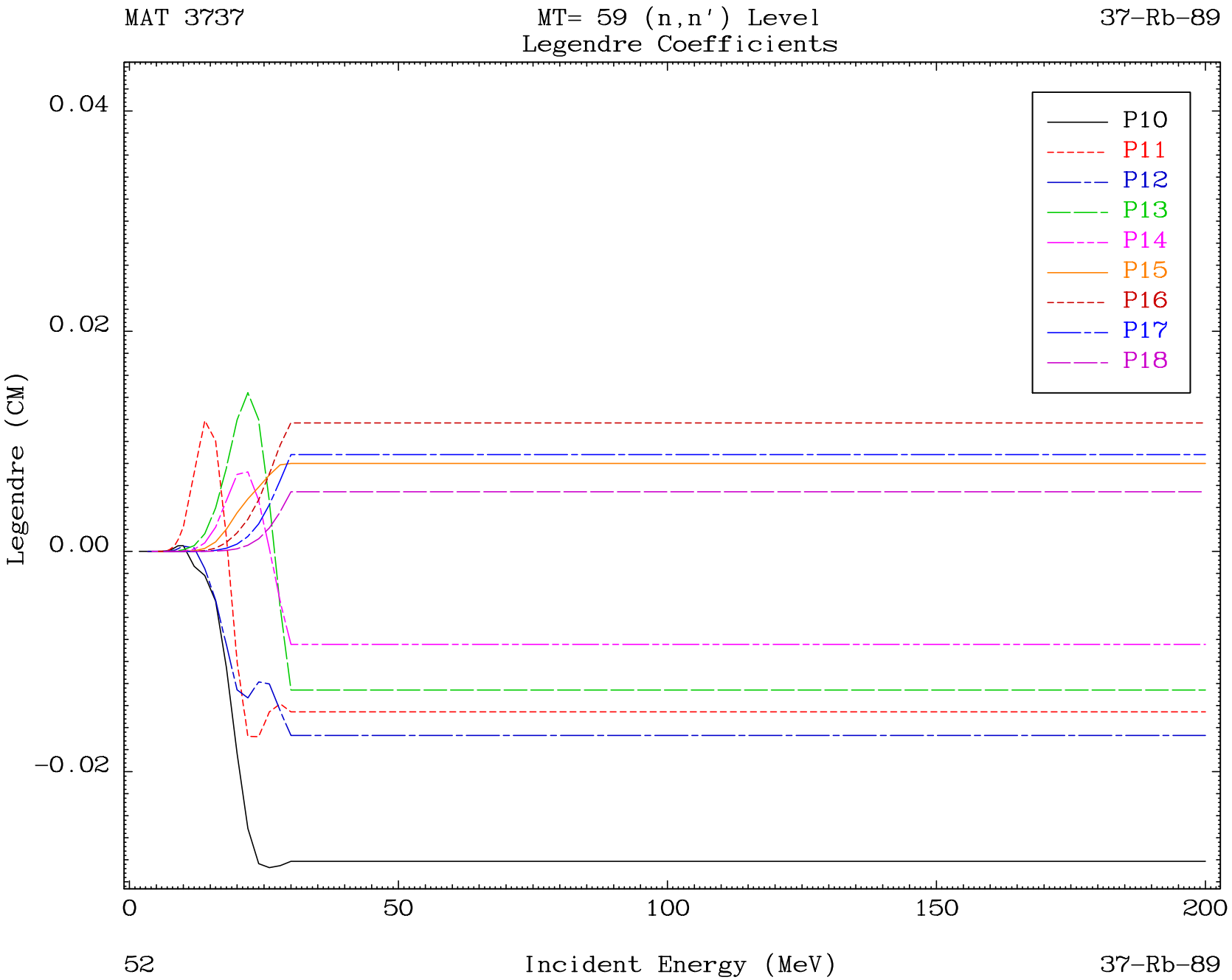

MAT 3737
MT= 58 (n,n') Level
Legendre Coefficients
37-Rb-89
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
47
Incident Energy (MeV)
37-Rb-89
P1
P2
P3
P4
P5
P6
P7
P8
P9

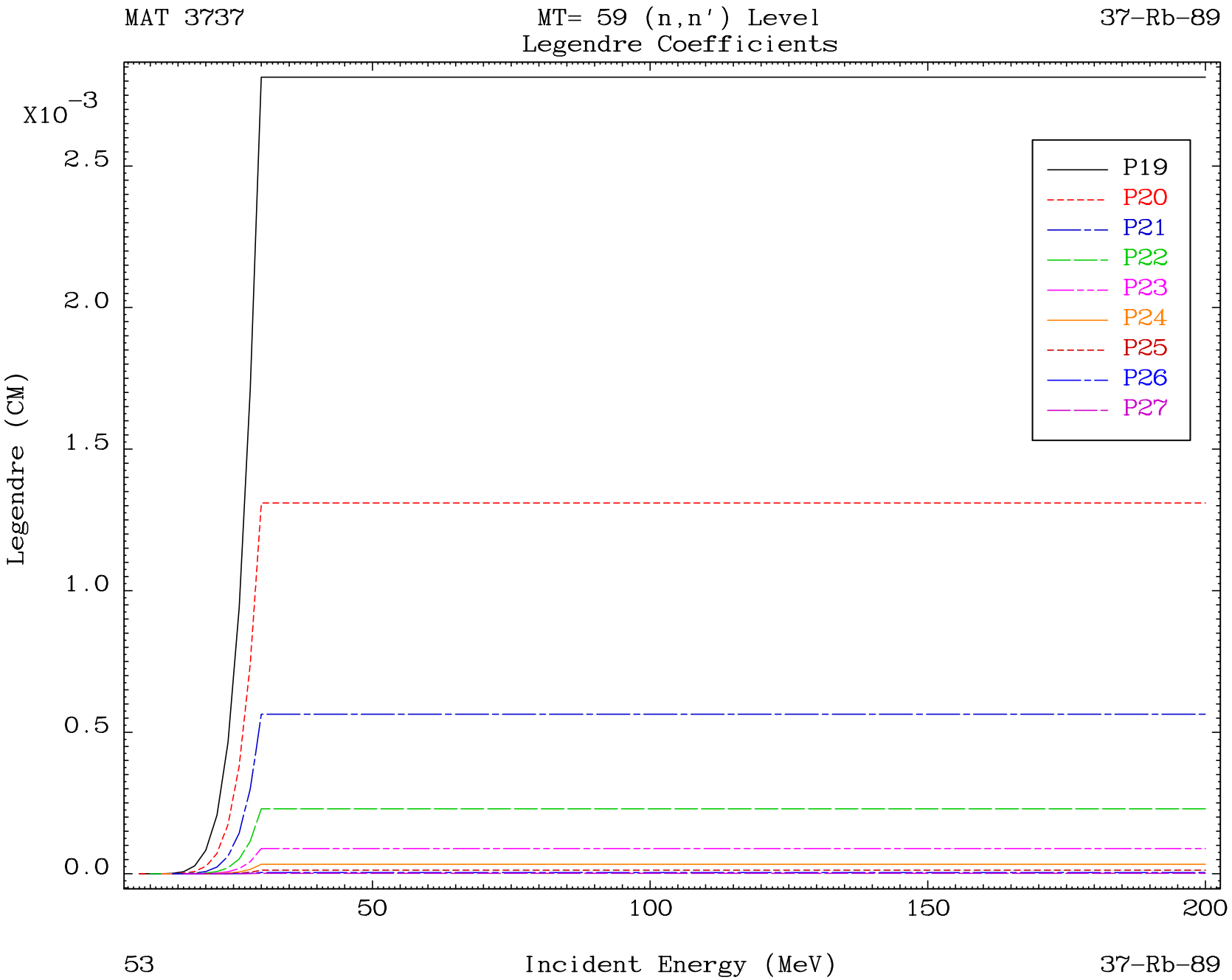

MAT 3737
MT= 58 (n,n') Level
Legendre Coefficients
37-Rb-89
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.025
0.020
0.015
0.010
0.005
0.000
-0.005
Legendre (CM)
0
50
100
150
200
48
Incident Energy (MeV)
37-Rb-89

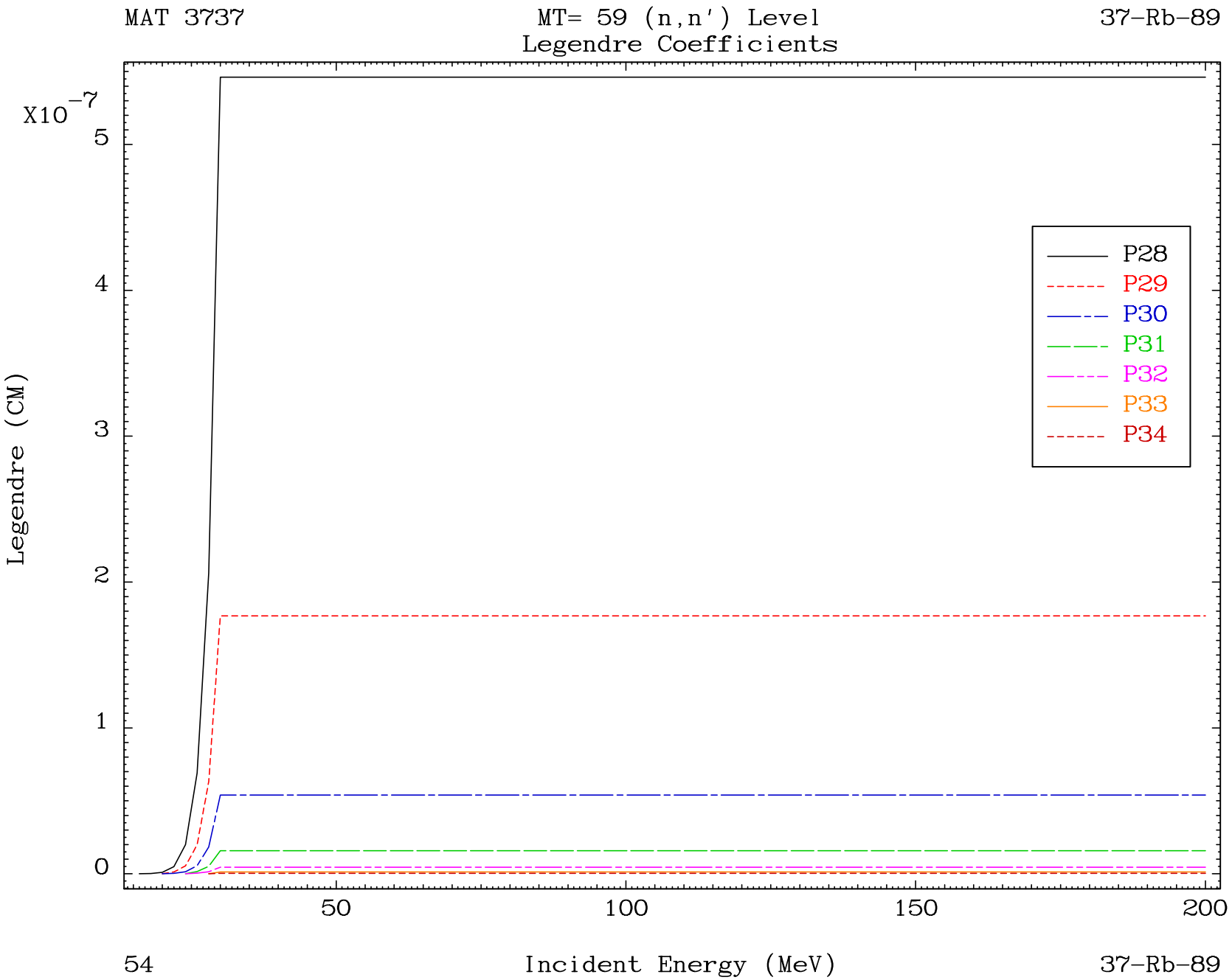

MAT 3737
MT= 58 (n,n') Level
Legendre Coefficients
37-Rb-89
X10 -4
6
4
2
0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
49
Incident Energy (MeV)
37-Rb-89

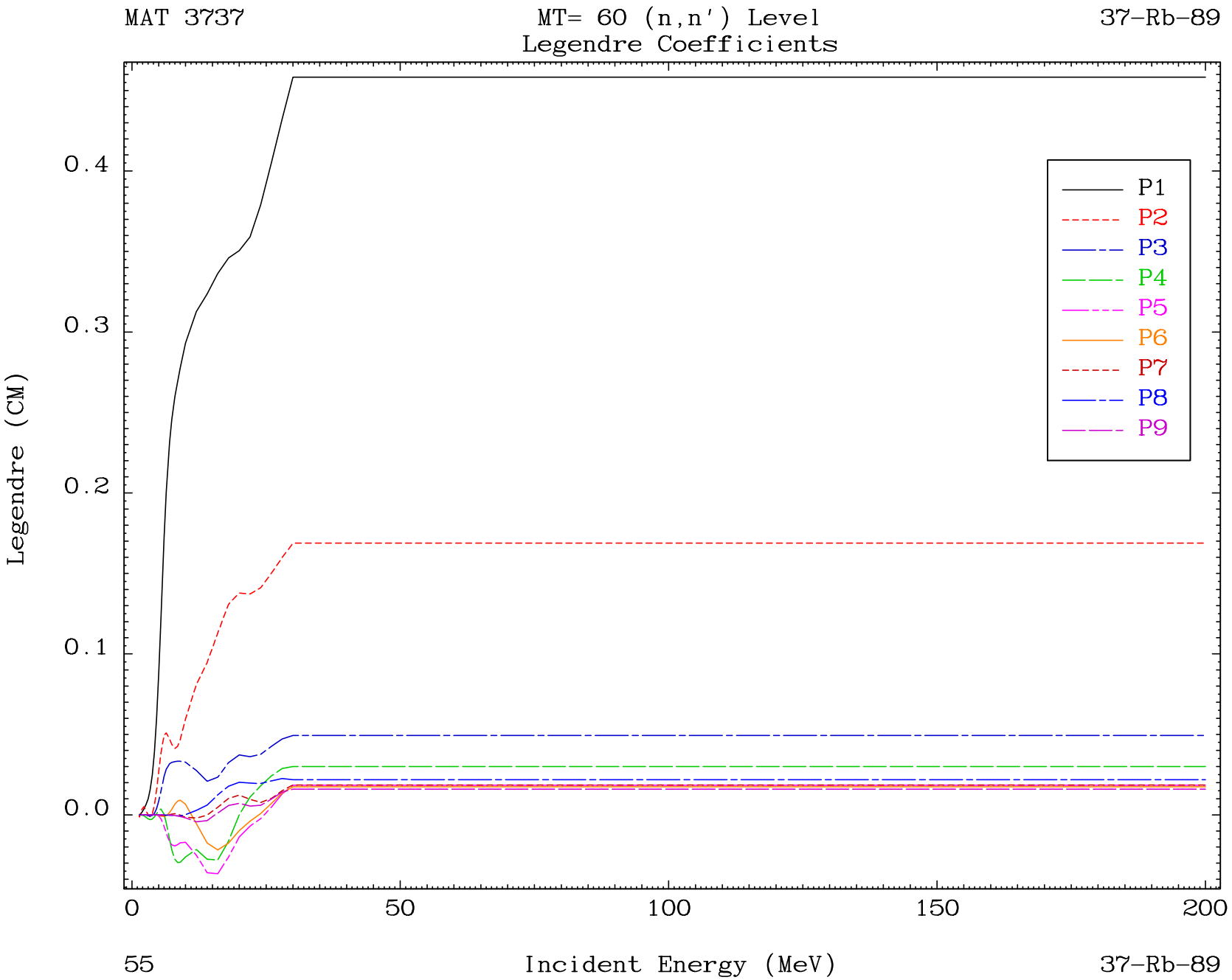

MAT 3737
MT= 58 (n,n') Level
Legendre Coefficients
37-Rb-89
X10^-7
3
2
1
0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
50
Incident Energy (MeV)
37-Rb-89

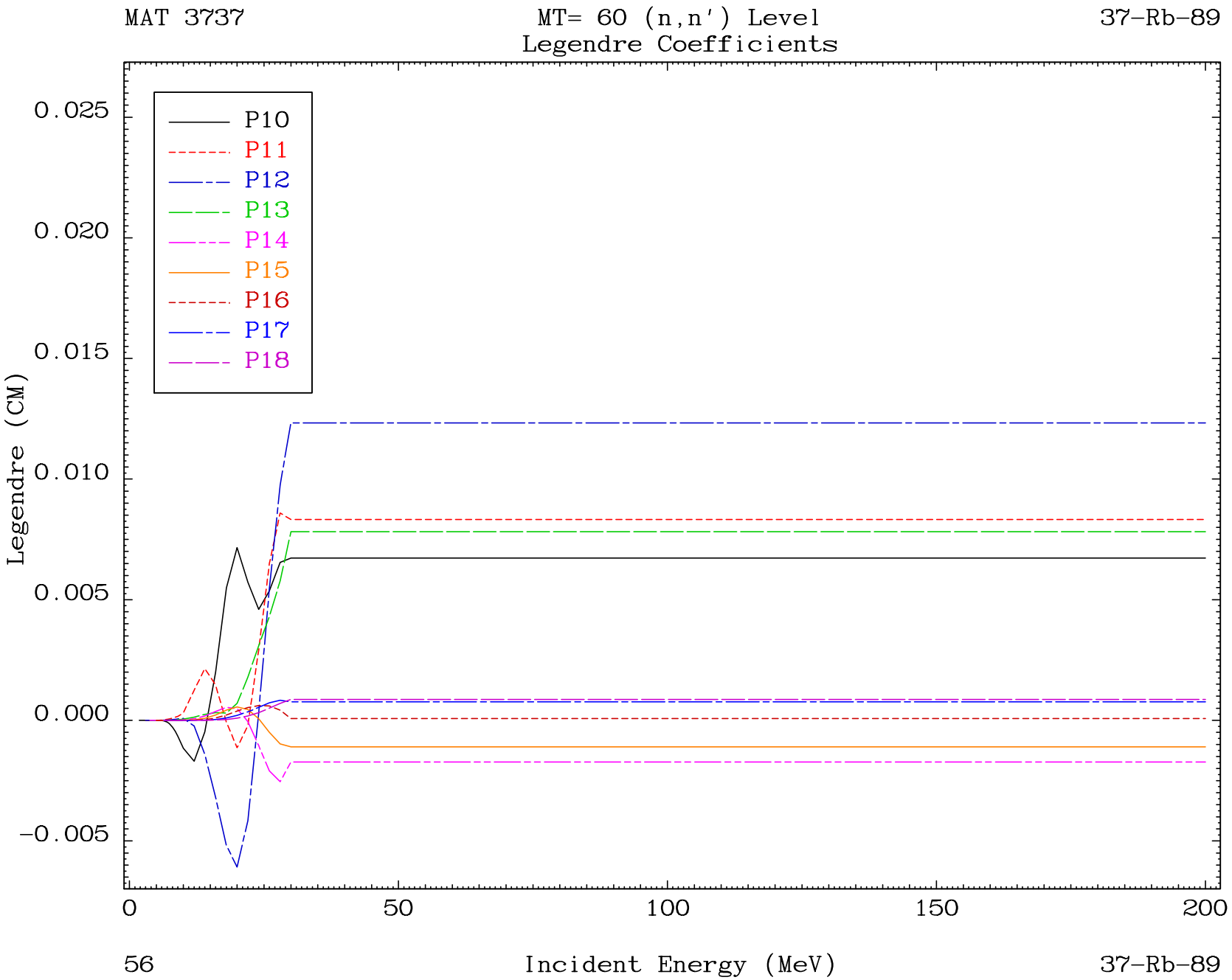

MAT 3737
MT= 59 (n,n') Level
Legendre Coefficients
37-Rb-89
0.5
0.4
0.3
0.2
0.1
0.0
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
51
Incident Energy (MeV)
37-Rb-89

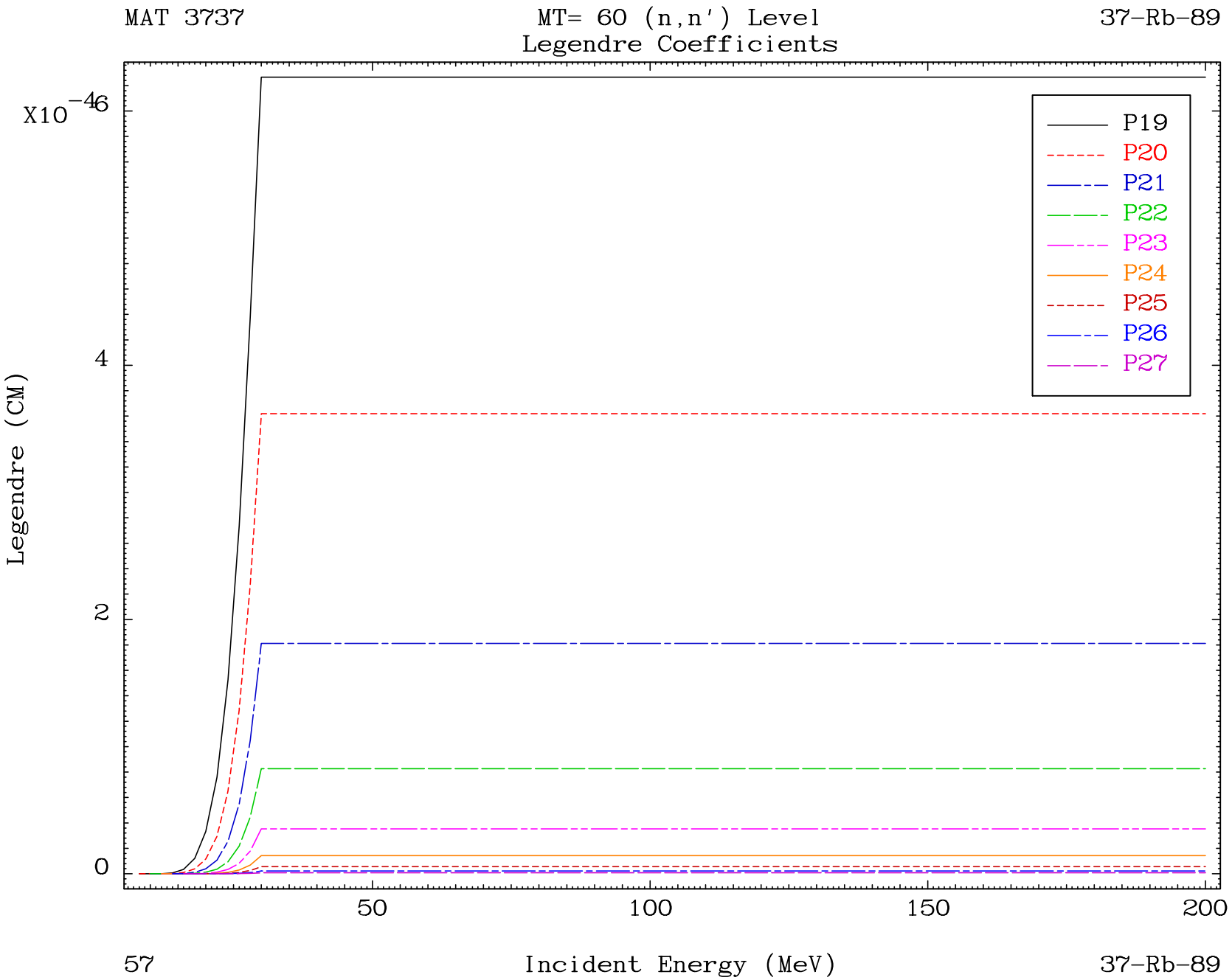

MAT 3737
MT= 59 (n,n') Level
Legendre Coefficients
37-Rb-89
0.04
0.02
0.00
-0.02
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
52
Incident Energy (MeV)
37-Rb-89

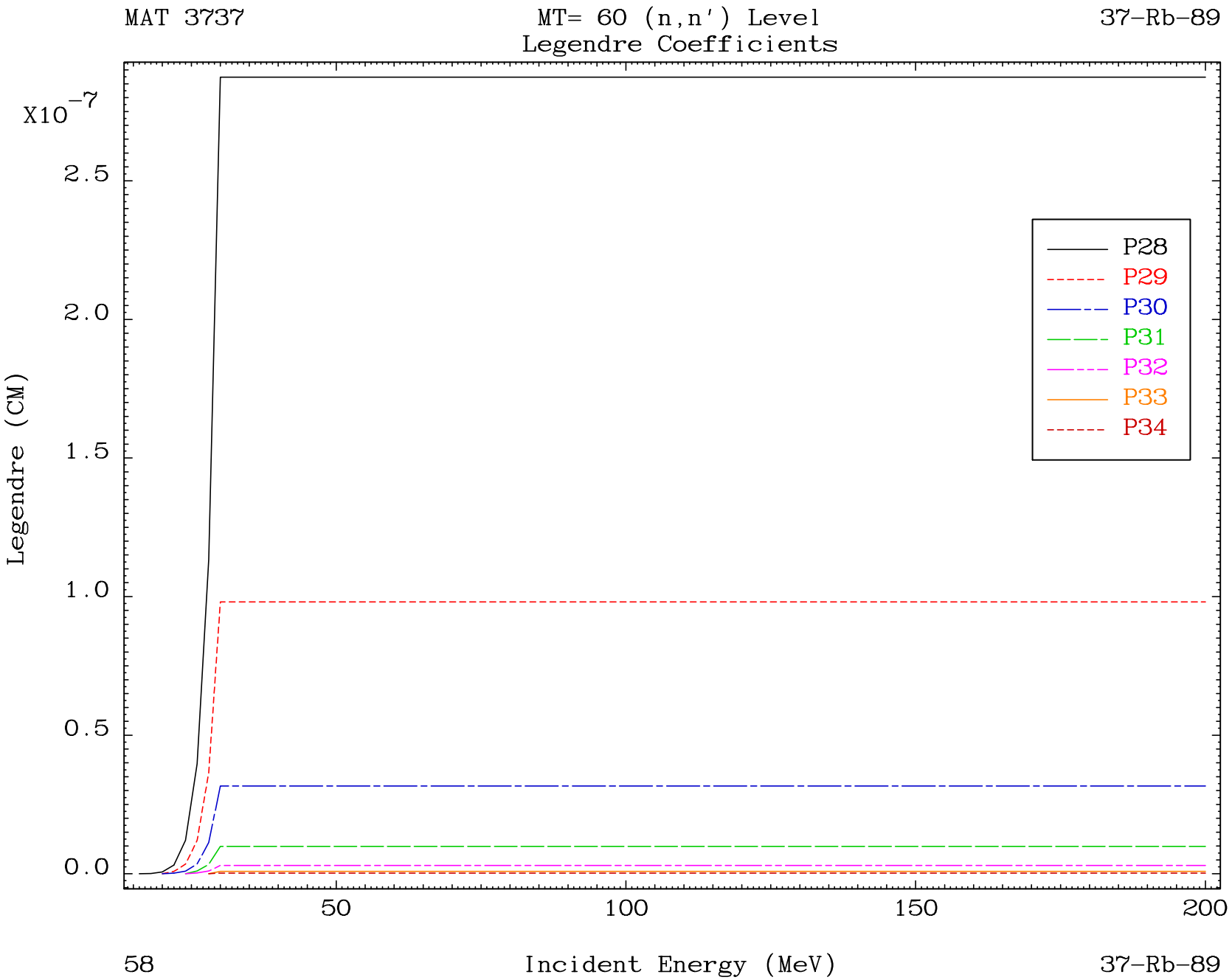

MAT 3737
MT= 59 (n,n') Level
Legendre Coefficients
37-Rb-89
X10-3
2.5
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
53
Incident Energy (MeV)
37-Rb-89

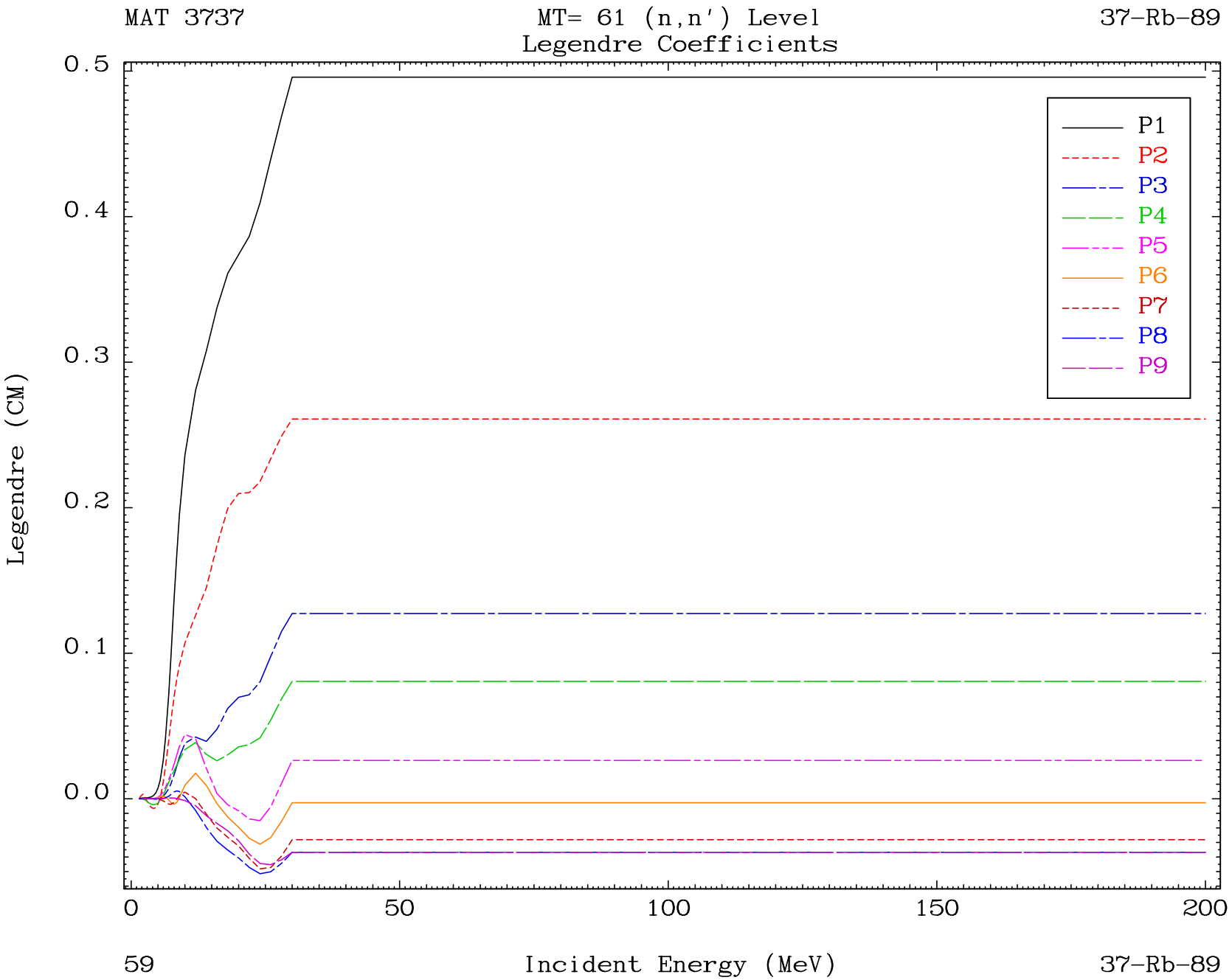

MAT 3737
MT= 59 (n,n') Level
Legendre Coefficients
37-Rb-89
X10 -7
5
4
3
2
1
0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
54
Incident Energy (MeV)
37-Rb-89

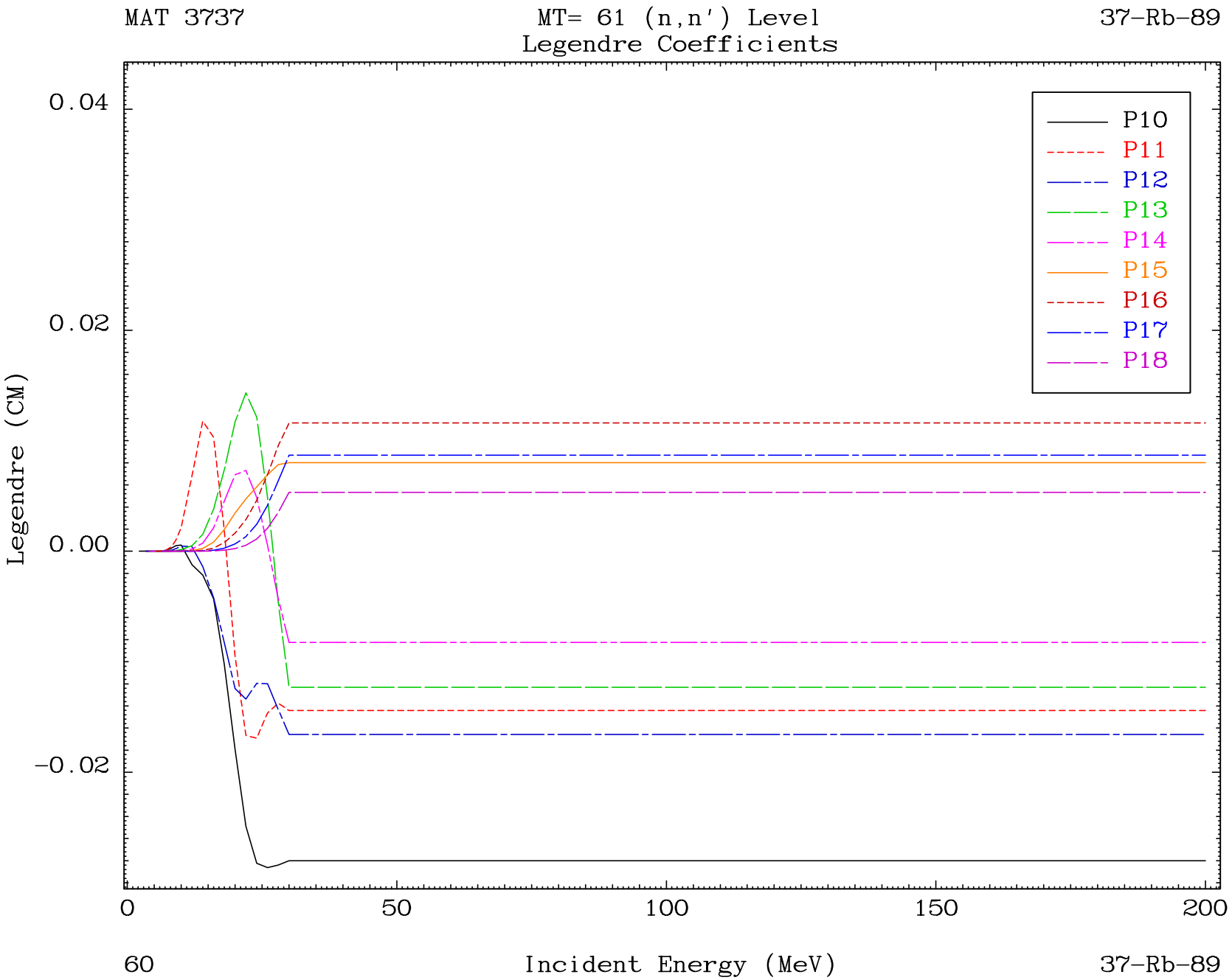

MAT 3737
MT= 60 (n,n') Level
Legendre Coefficients
37-Rb-89
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
55
Incident Energy (MeV)
37-Rb-89

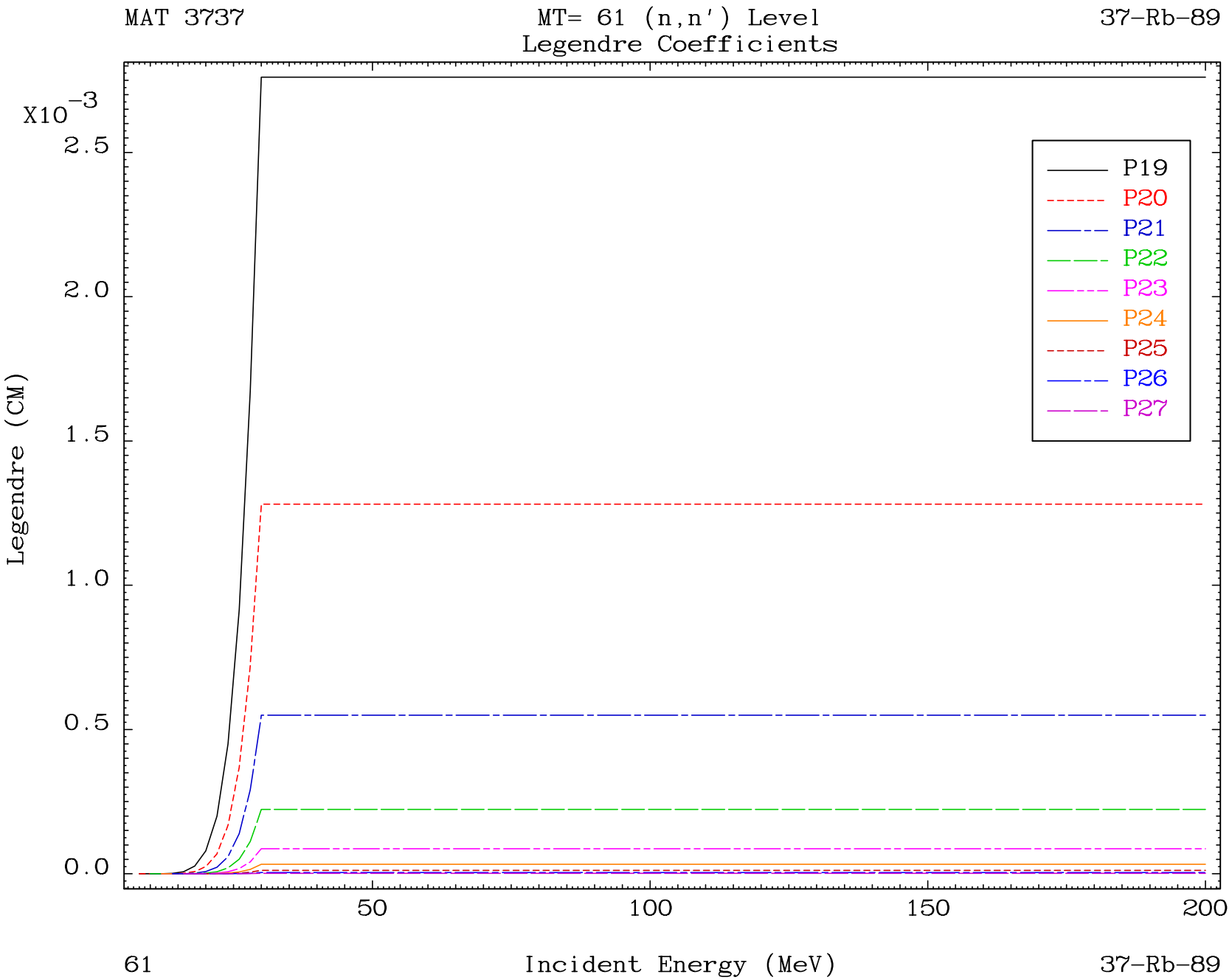

MAT 3737
MT= 60 (n,n') Level
Legendre Coefficients
37-Rb-89
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.025
0.020
0.015
0.010
0.005
0.000
-0.005
Legendre (CM)
0
50
100
150
200
56
Incident Energy (MeV)
37-Rb-89

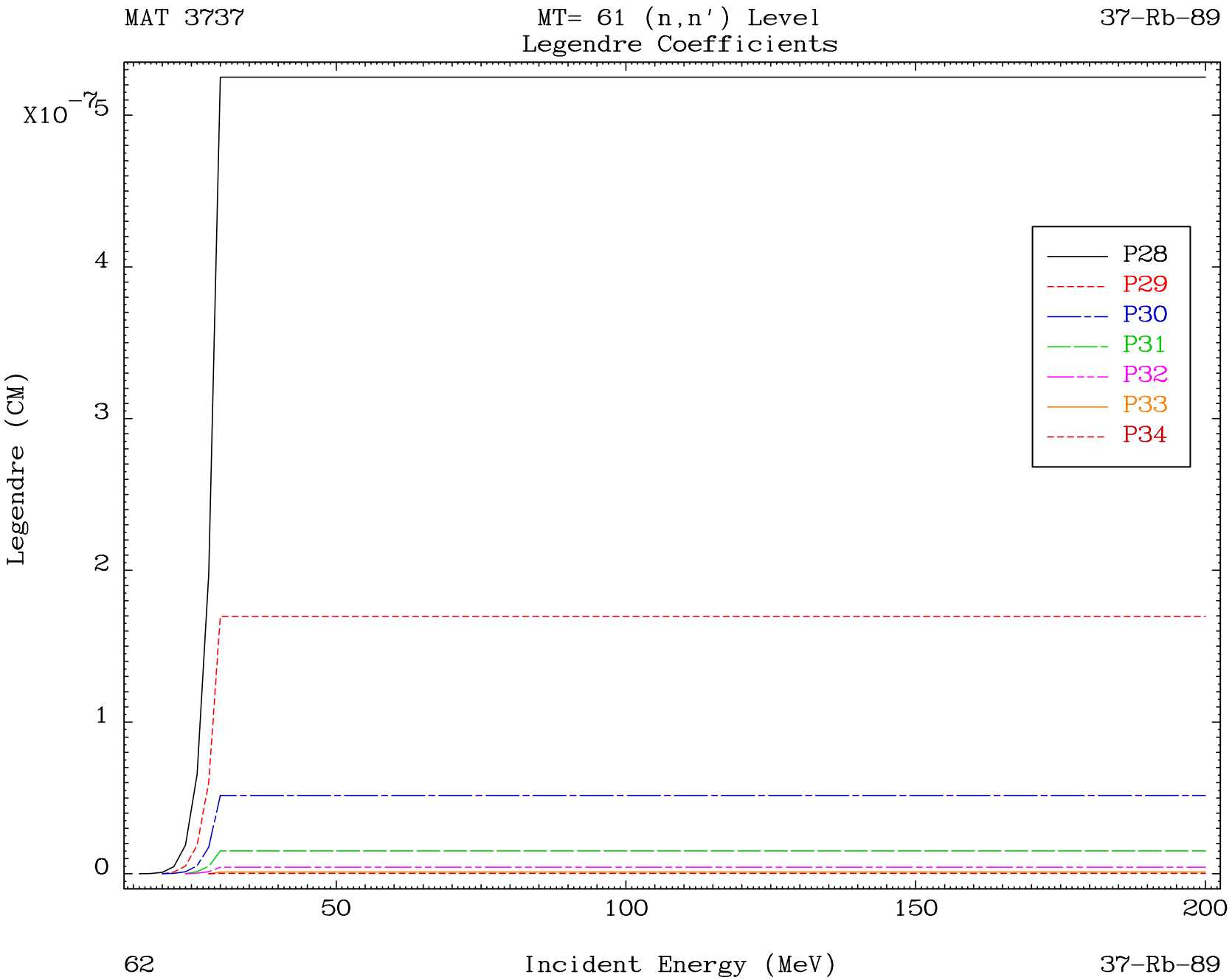

MAT 3737
MT= 60 (n,n') Level
Legendre Coefficients
37-Rb-89
X10 -46
4
2
0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
57
Incident Energy (MeV)
37-Rb-89

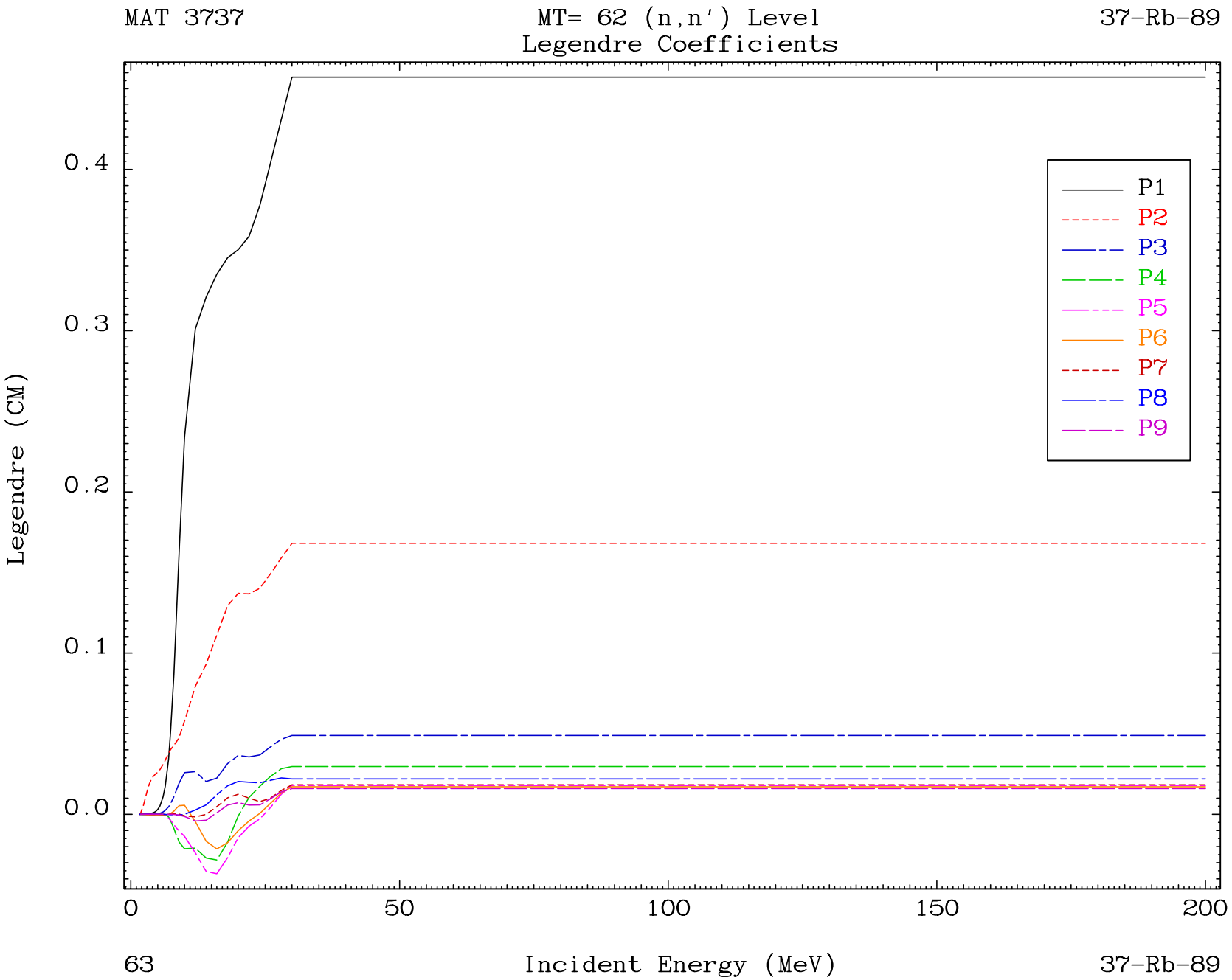

MAT 3737
MT= 60 (n,n') Level
Legendre Coefficients
37-Rb-89
X10-7
2.5
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
58
Incident Energy (MeV)
37-Rb-89

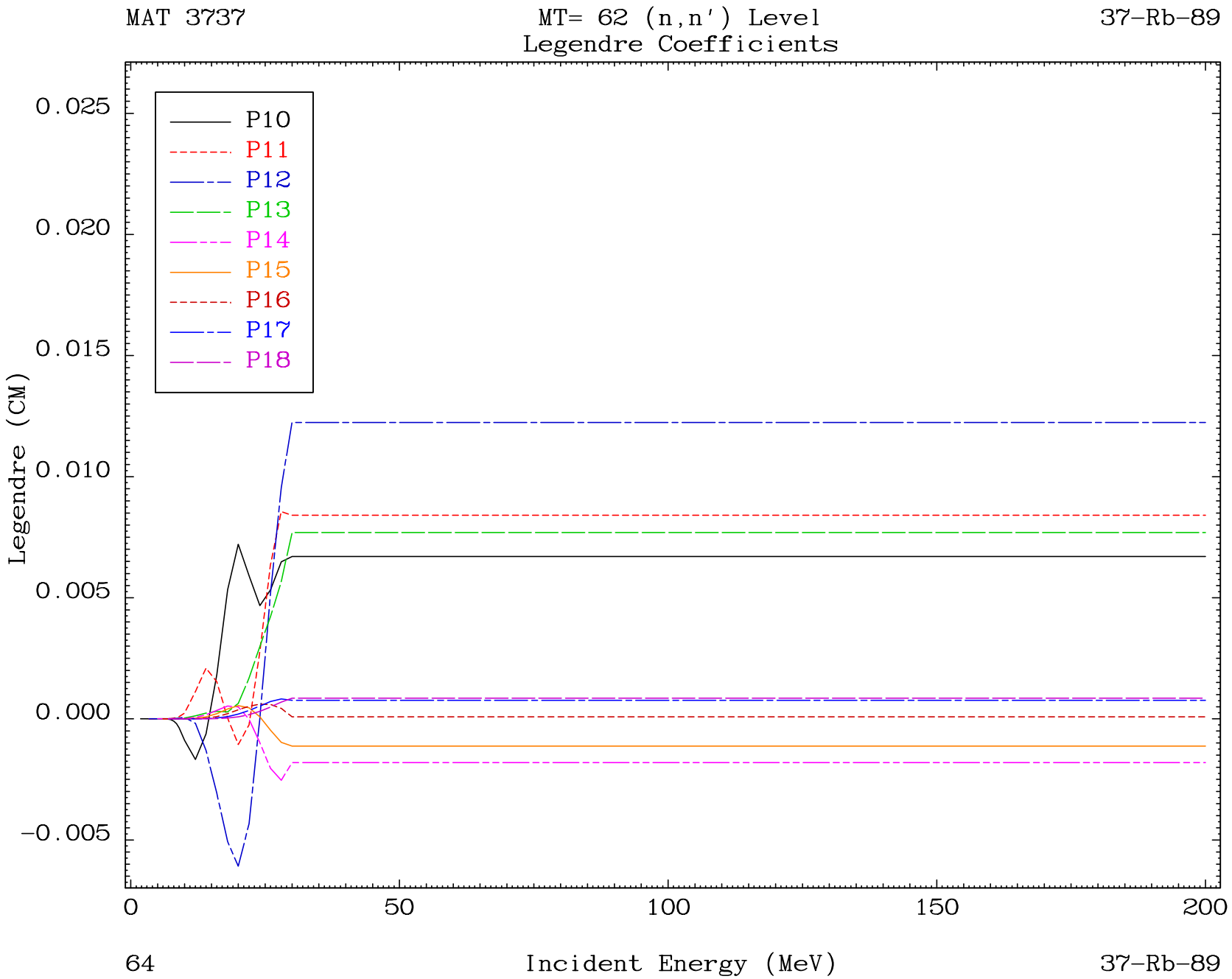

MAT 3737
MT= 61 (n,n') Level
Legendre Coefficients
37-Rb-89
0.5
0.4
0.3
0.2
0.1
0.0
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
59
Incident Energy (MeV)
37-Rb-89

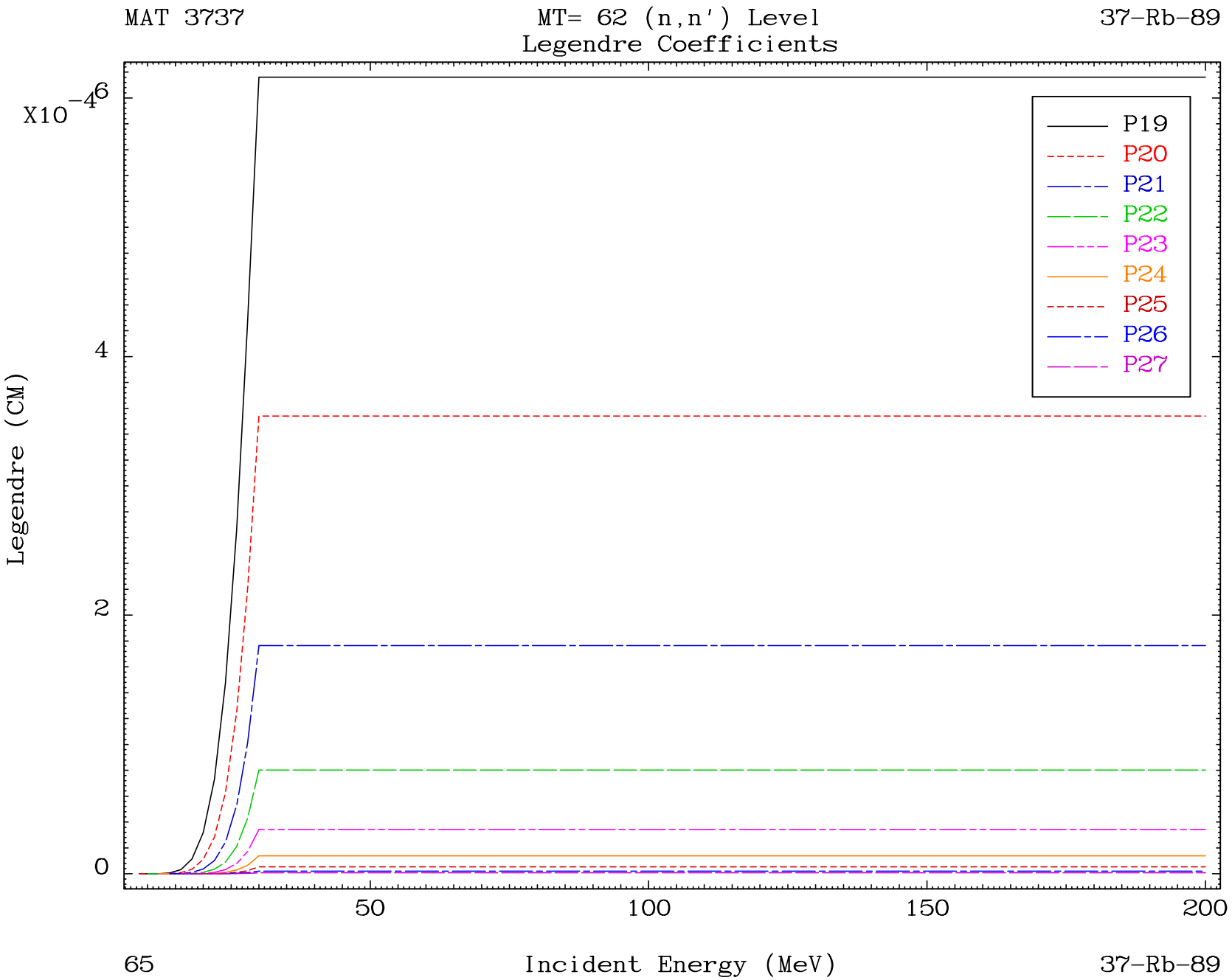

MAT 3737
MT= 61 (n,n') Level
Legendre Coefficients
37-Rb-89
0.04
0.02
0.00
-0.02
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
60
Incident Energy (MeV)
37-Rb-89

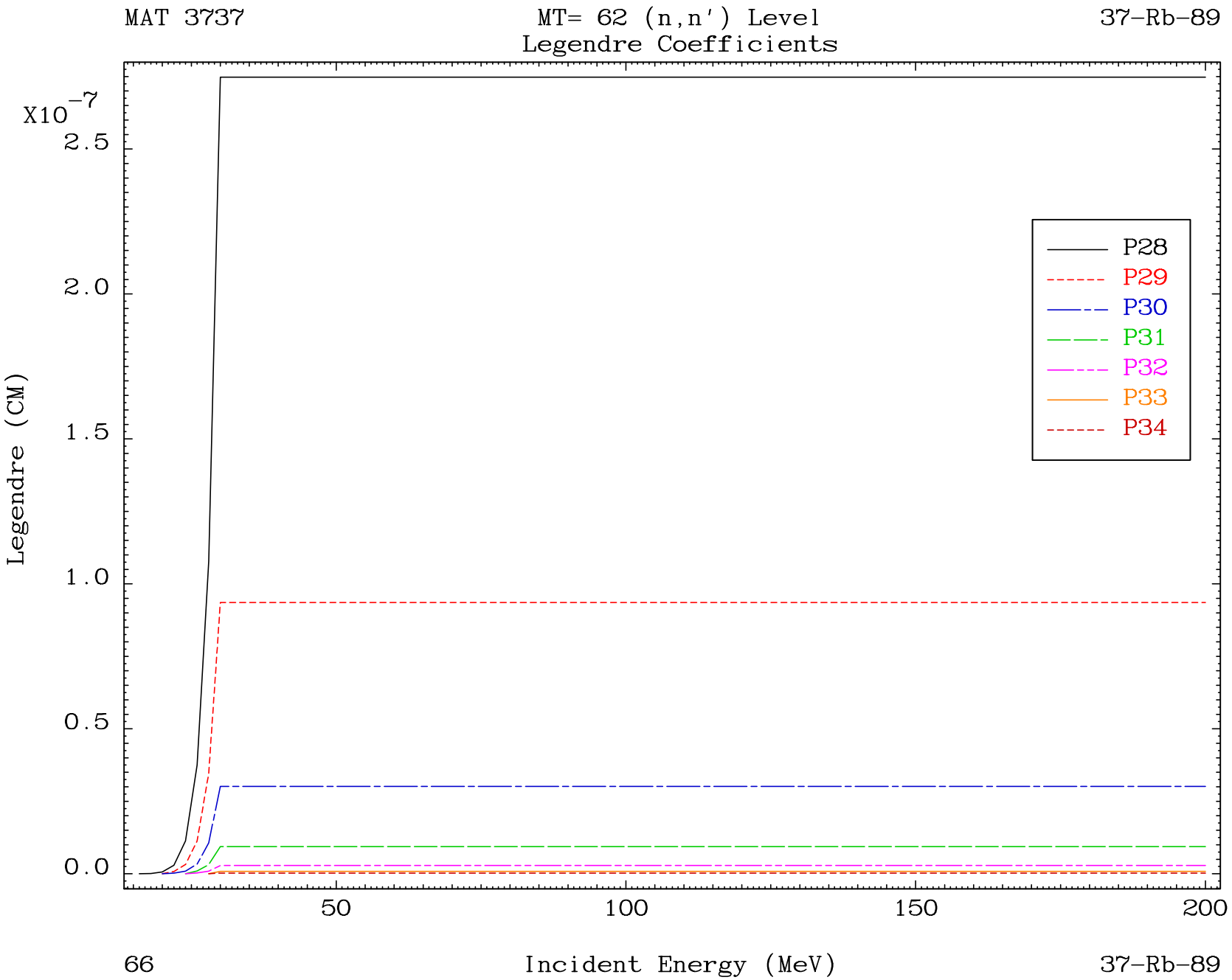

MAT 3737
MT= 61 (n,n') Level
Legendre Coefficients
37-Rb-89
X10-3
2.5
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
61
Incident Energy (MeV)
37-Rb-89

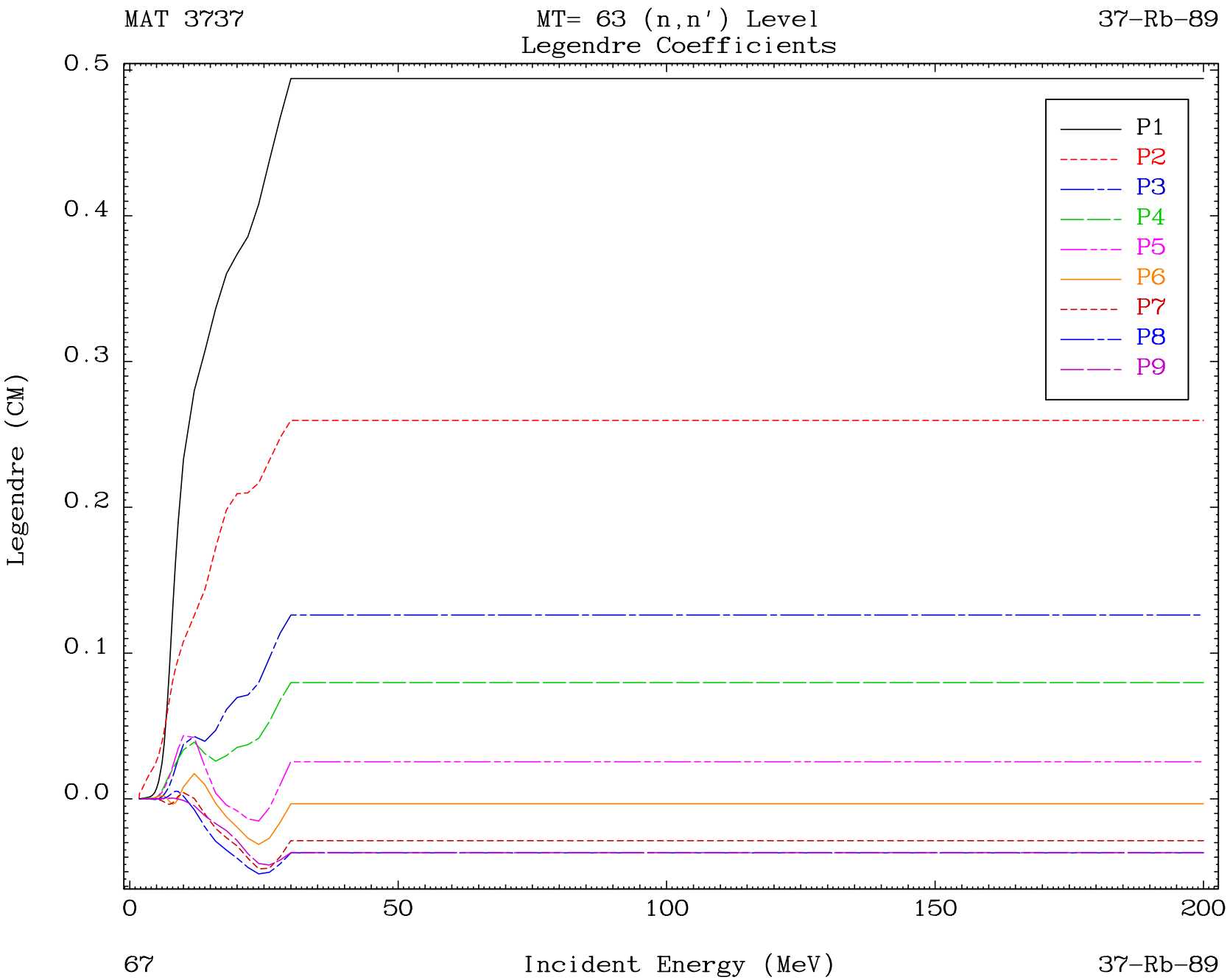

MAT 3737
MT= 61 (n,n') Level
Legendre Coefficients
37-Rb-89
X10^-7
5
4
3
2
1
0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
62
Incident Energy (MeV)
37-Rb-89

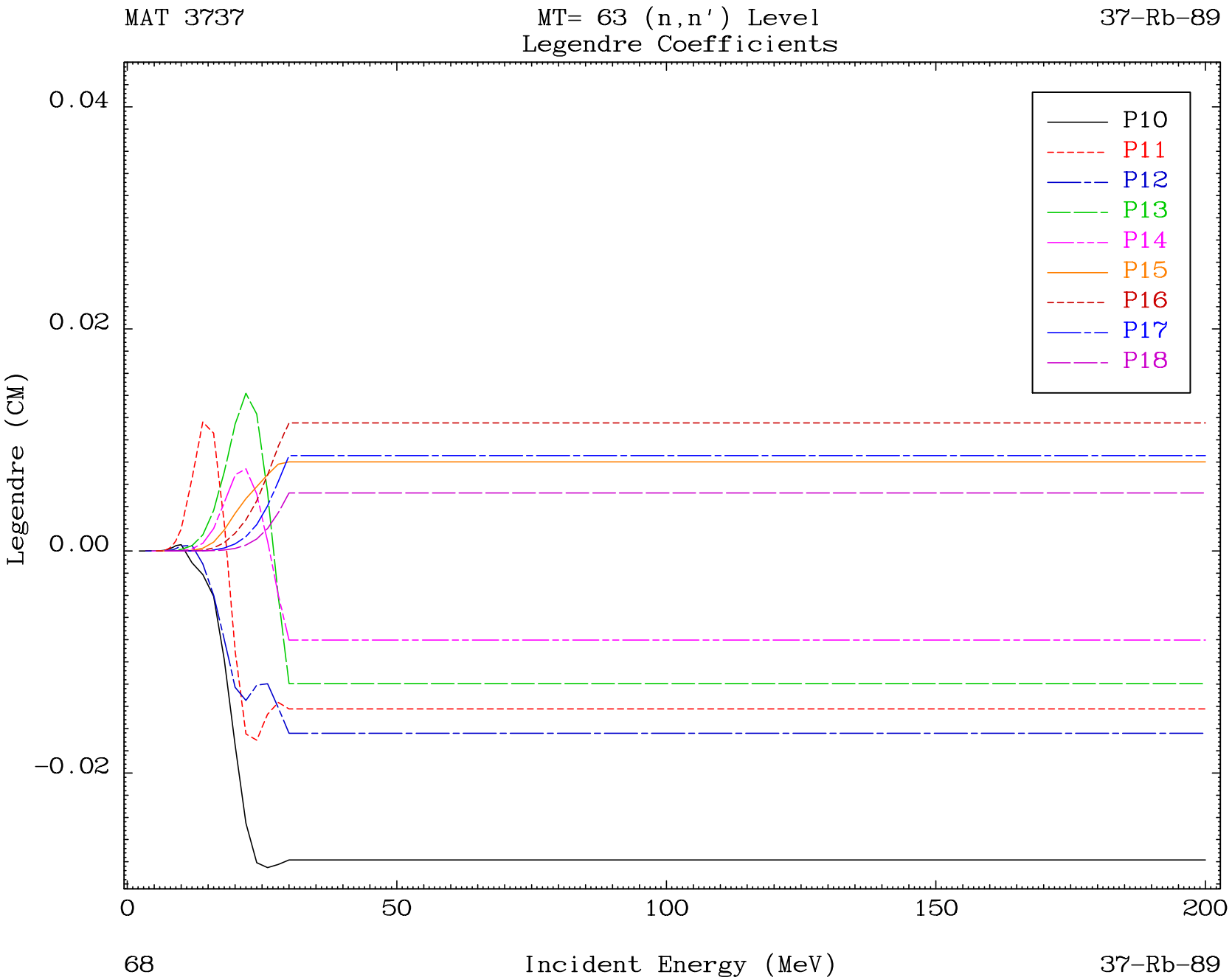

MAT 3737
MT= 62 (n,n') Level
Legendre Coefficients
37-Rb-89
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
63
Incident Energy (MeV)
37-Rb-89
P1
P2
P3
P4
P5
P6
P7
P8
P9

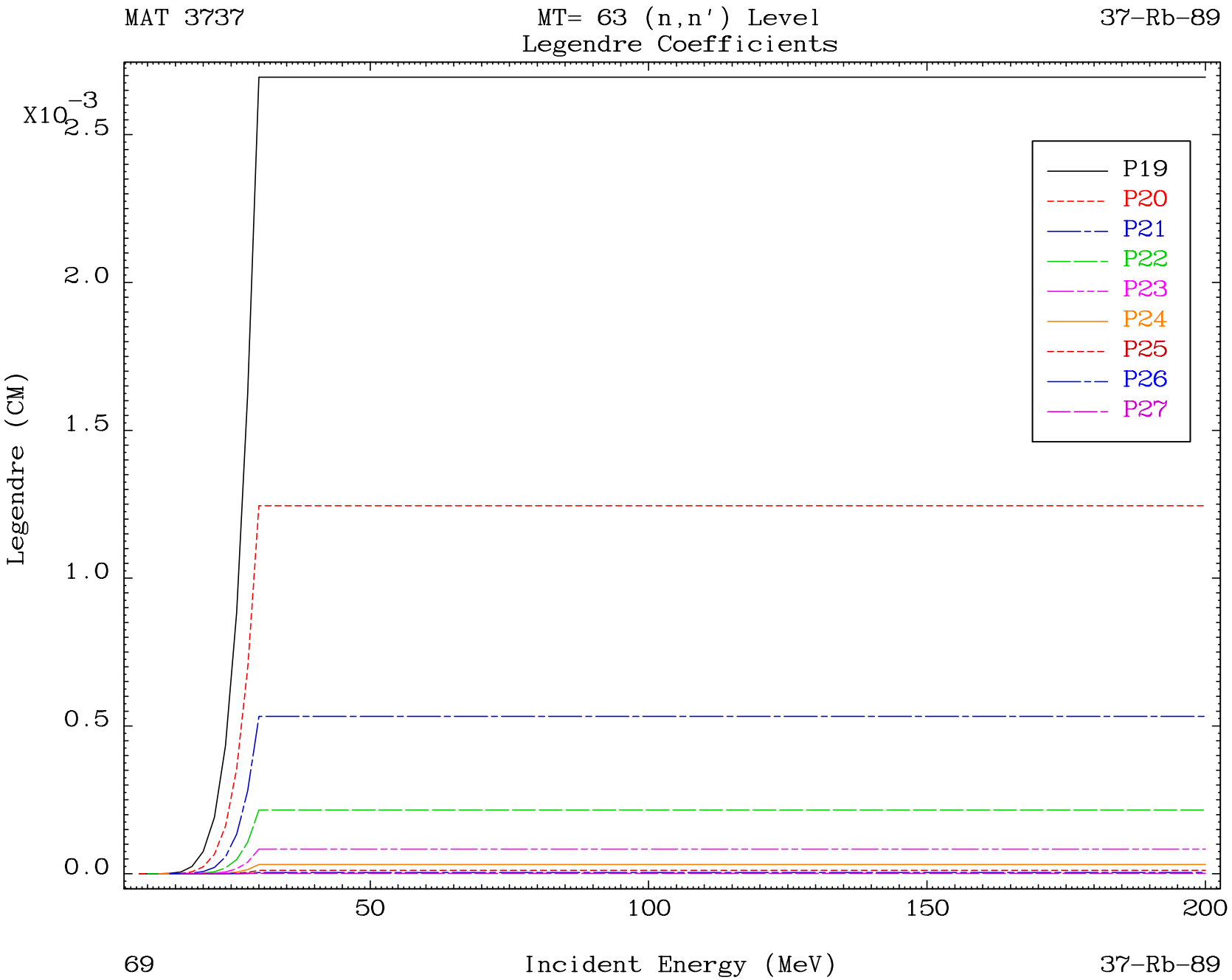

MAT 3737
MT= 62 (n,n') Level
Legendre Coefficients
37-Rb-89
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.025
0.020
0.015
0.010
0.005
0.000
-0.005
Legendre (CM)
0
50
100
150
200
64
Incident Energy (MeV)
37-Rb-89

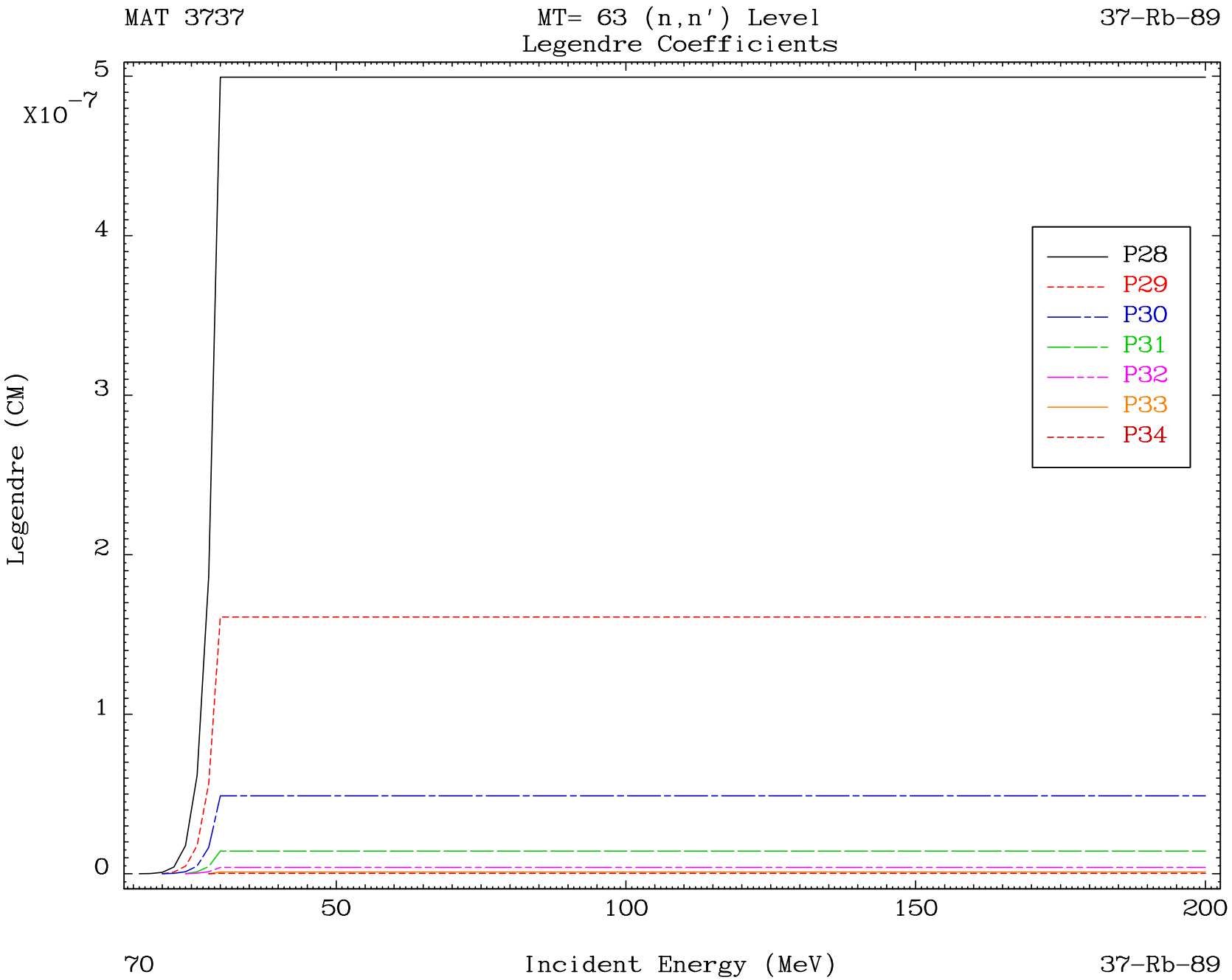

MAT 3737
MT= 62 (n,n') Level
Legendre Coefficients
37-Rb-89
X10-4 6
4
2
0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
65
Incident Energy (MeV)
37-Rb-89

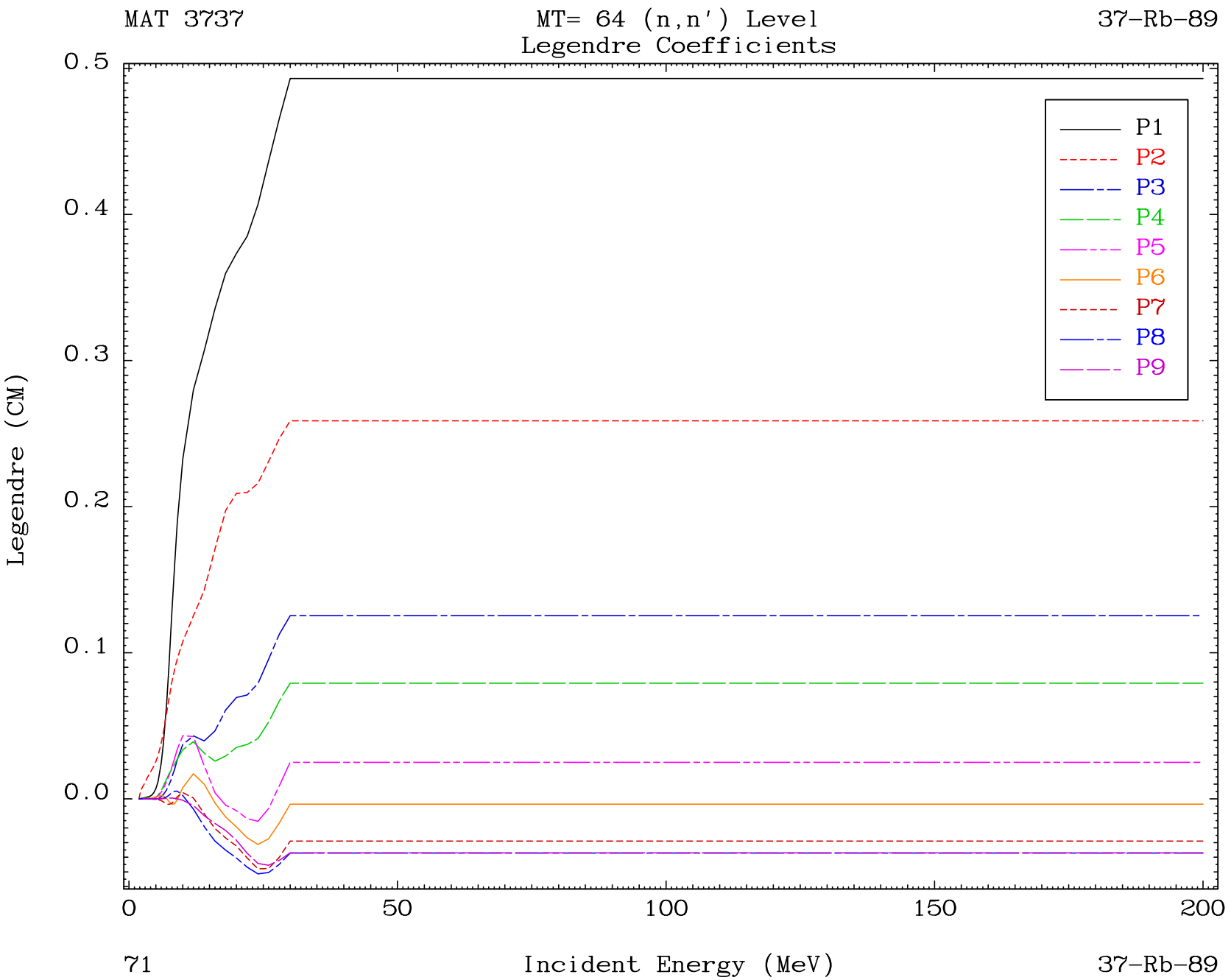

MAT 3737
MT= 62 (n,n') Level
Legendre Coefficients
37-Rb-89
X10^-7
2.5
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
66
Incident Energy (MeV)
37-Rb-89

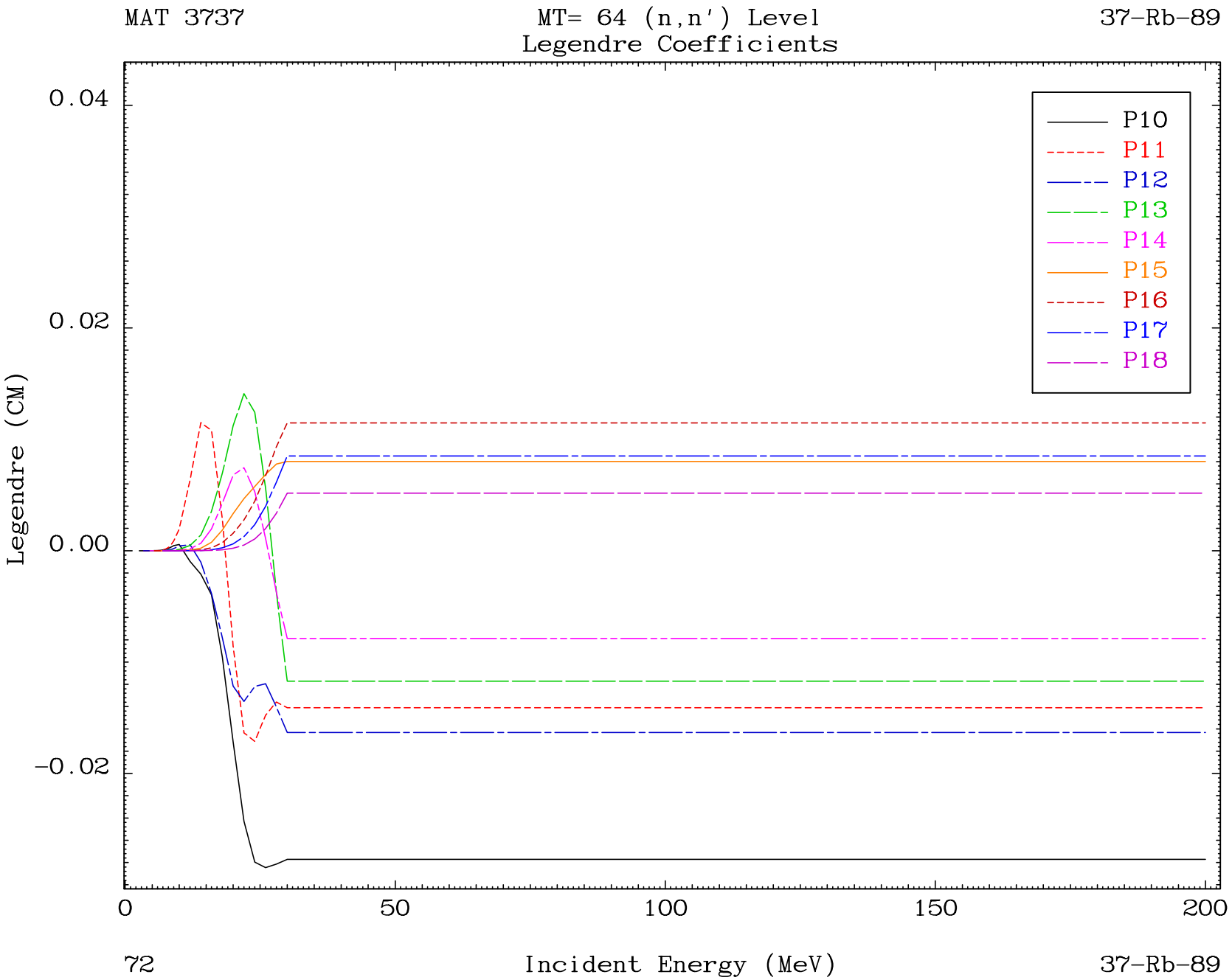

MAT 3737
MT= 63 (n,n') Level
Legendre Coefficients
37-Rb-89
0.5
0.4
0.3
0.2
0.1
0.0
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
67
Incident Energy (MeV)
37-Rb-89

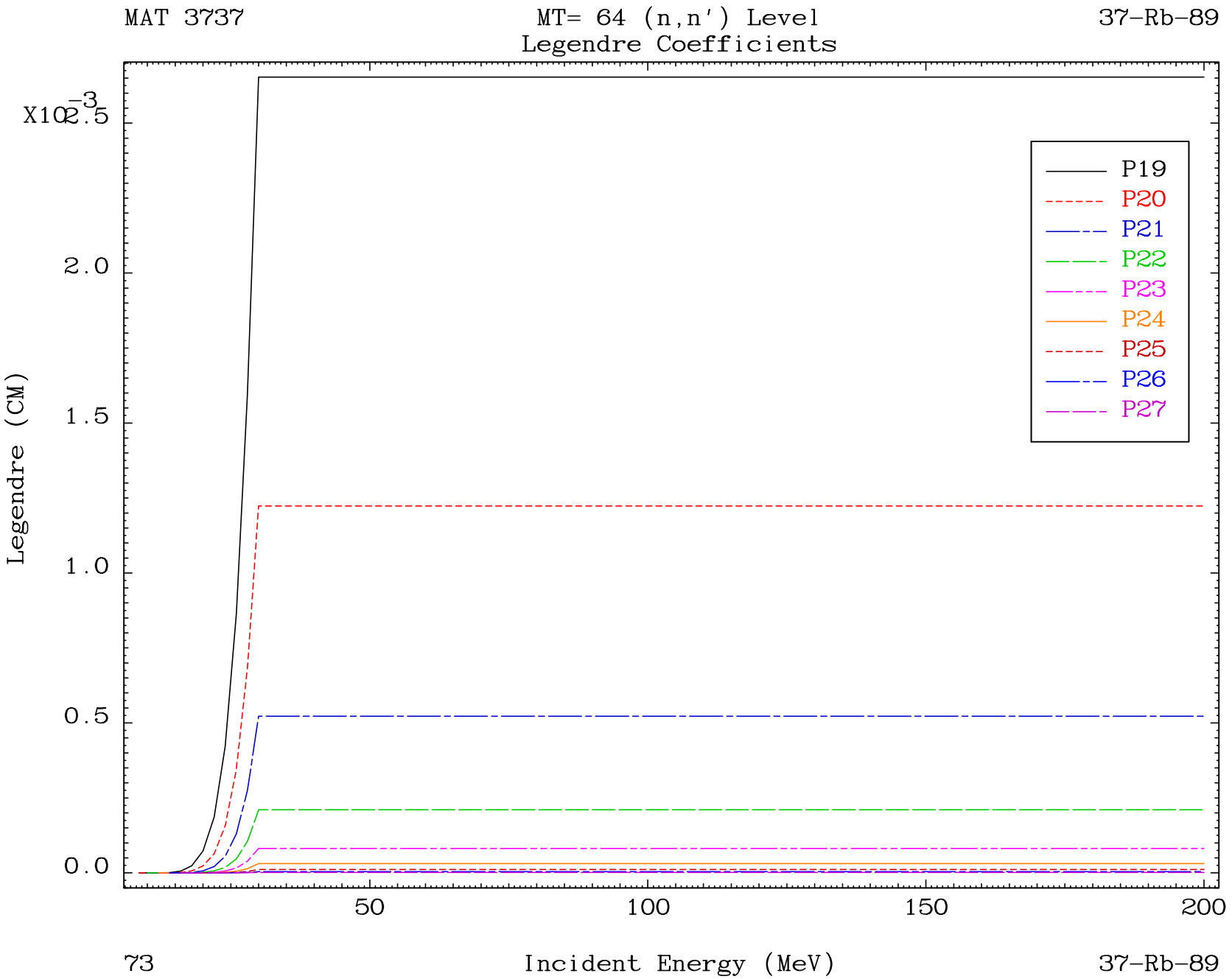

MAT 3737
MT= 63 (n,n') Level
Legendre Coefficients
37-Rb-89
0.04
0.02
0.00
-0.02
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
68
Incident Energy (MeV)
37-Rb-89

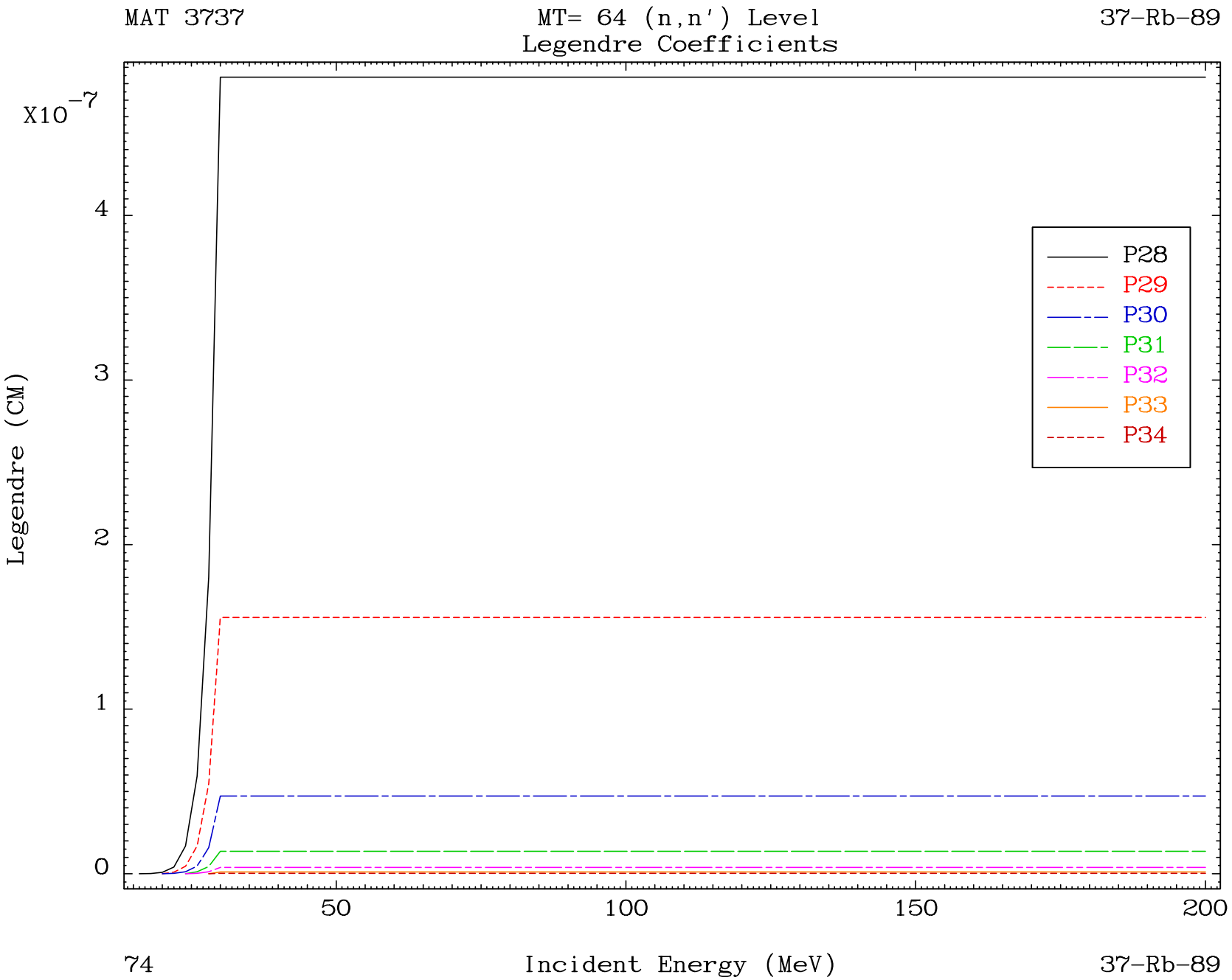

MAT 3737
MT= 63 (n,n') Level
Legendre Coefficients
37-Rb-89
X10-3
2.5
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
69
Incident Energy (MeV)
37-Rb-89

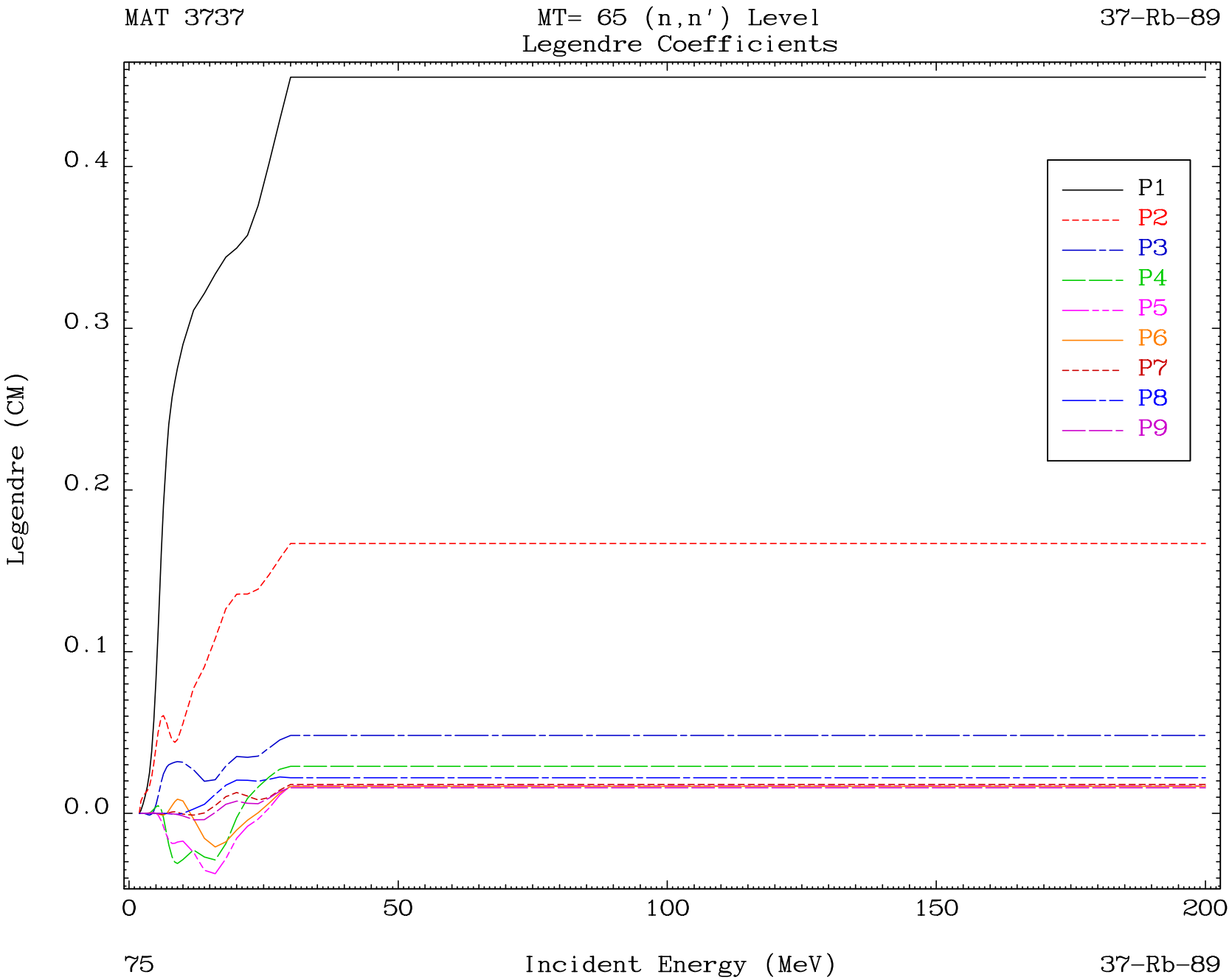

MAT 3737
MT= 63 (n,n') Level
Legendre Coefficients
37-Rb-89
X10^-7
5
4
3
2
1
0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
70
Incident Energy (MeV)
37-Rb-89

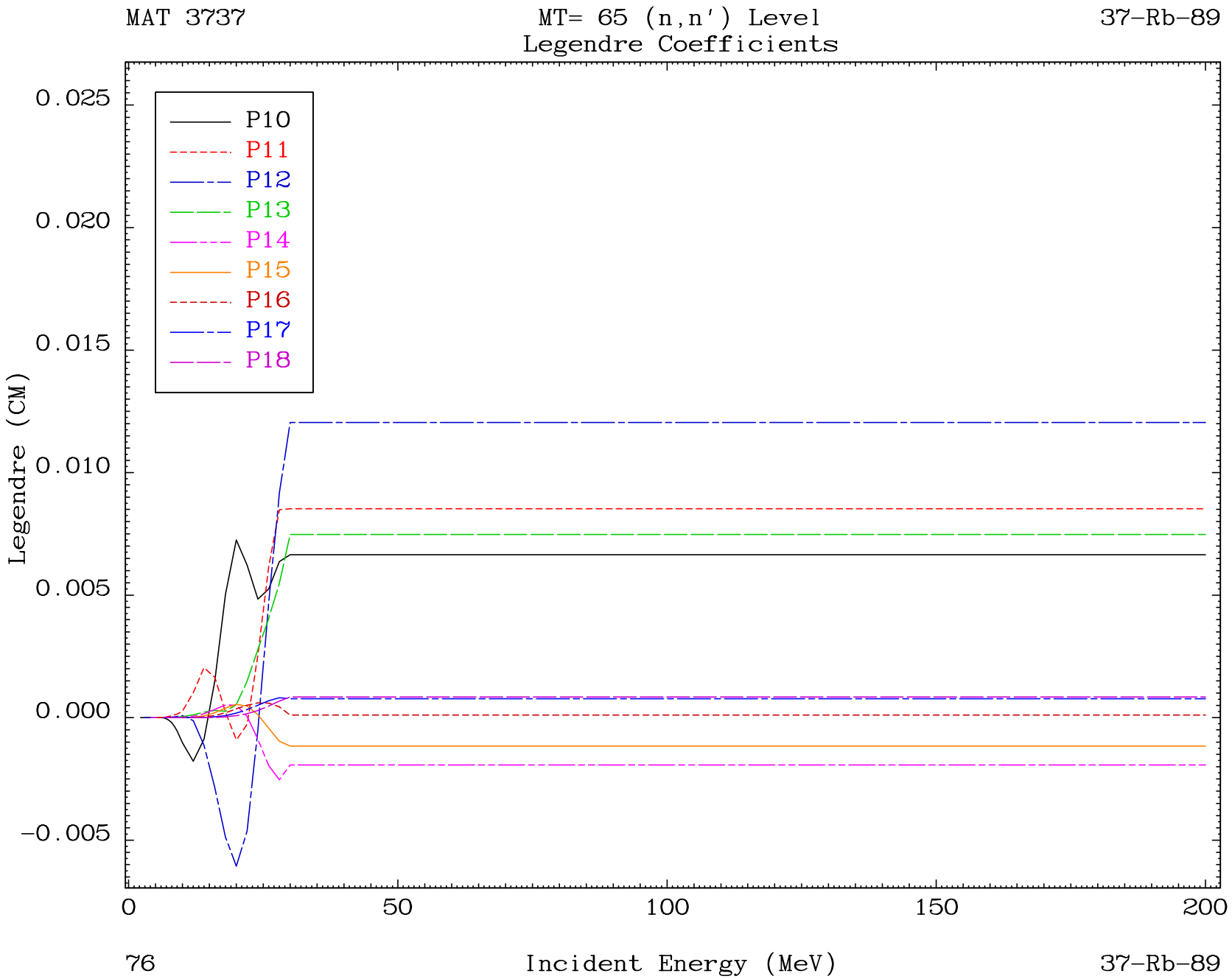

MAT 3737
MT= 64 (n,n') Level
Legendre Coefficients
37-Rb-89
0.5
0.4
0.3
0.2
0.1
0.0
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
71
Incident Energy (MeV)
37-Rb-89

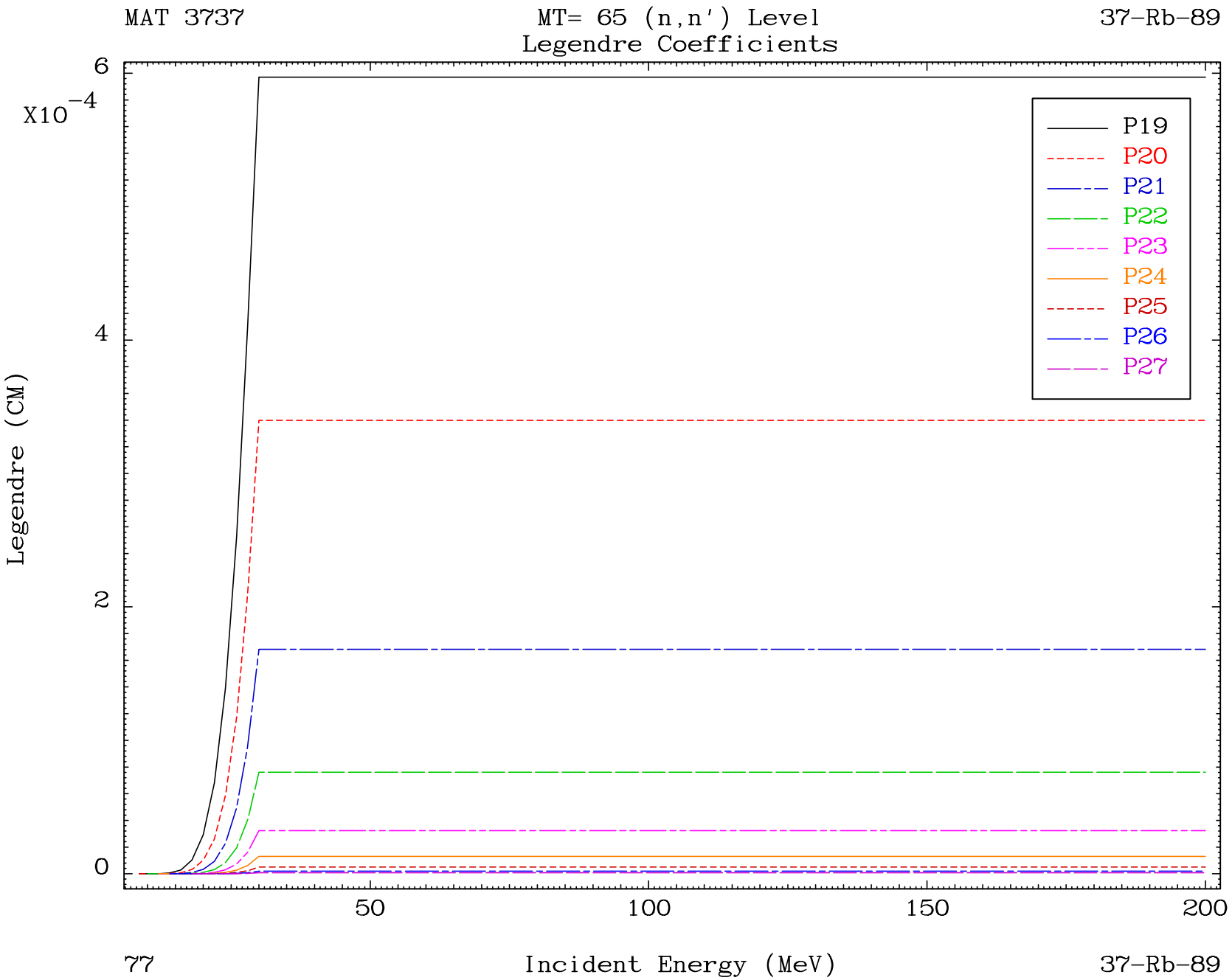

MAT 3737
MT= 64 (n,n') Level
Legendre Coefficients
37-Rb-89
0.04
0.02
0.00
-0.02
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
72
Incident Energy (MeV)
37-Rb-89

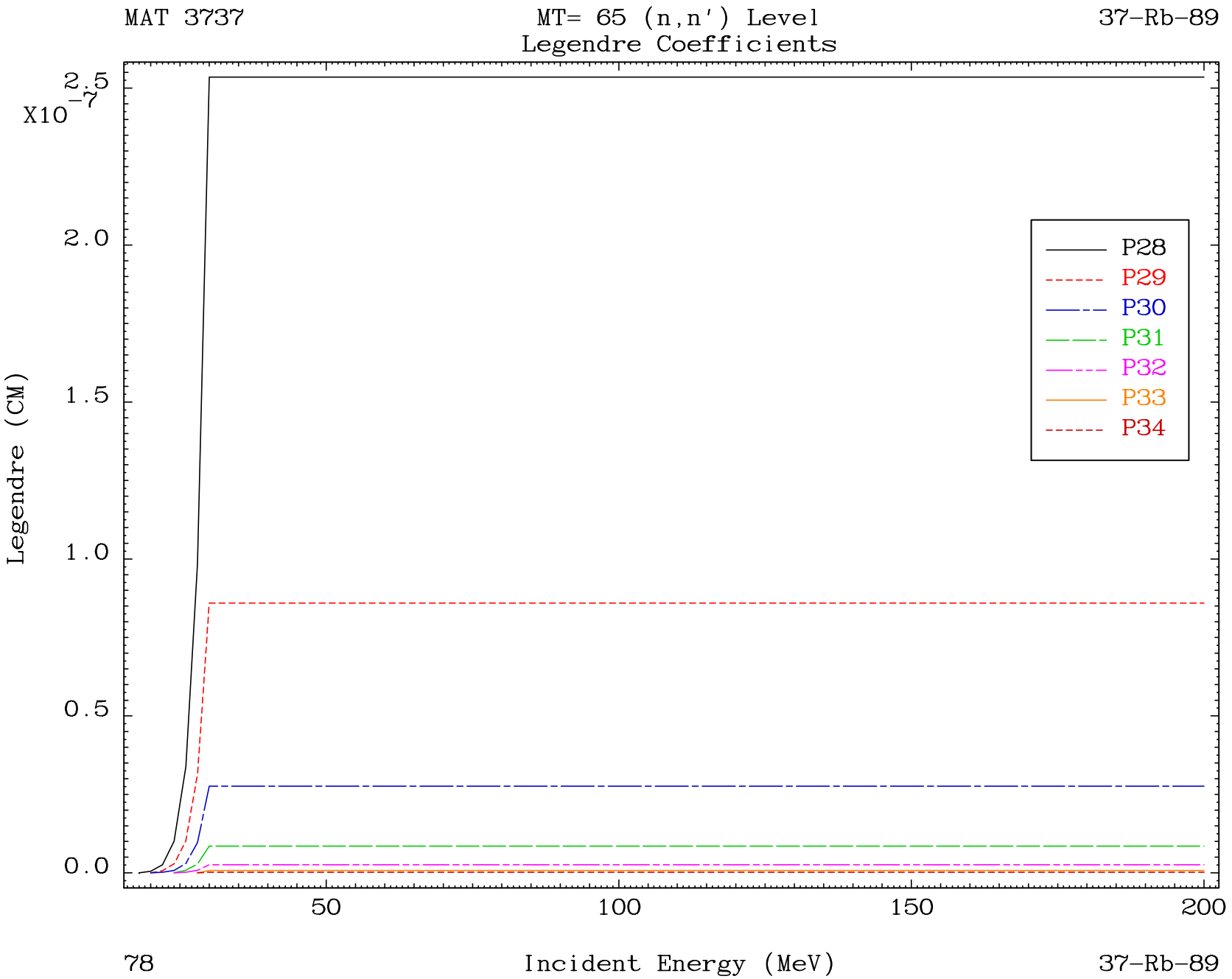

MAT 3737
MT= 64 (n,n') Level
Legendre Coefficients
37-Rb-89
X10-3
2.5
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
73
Incident Energy (MeV)
37-Rb-89

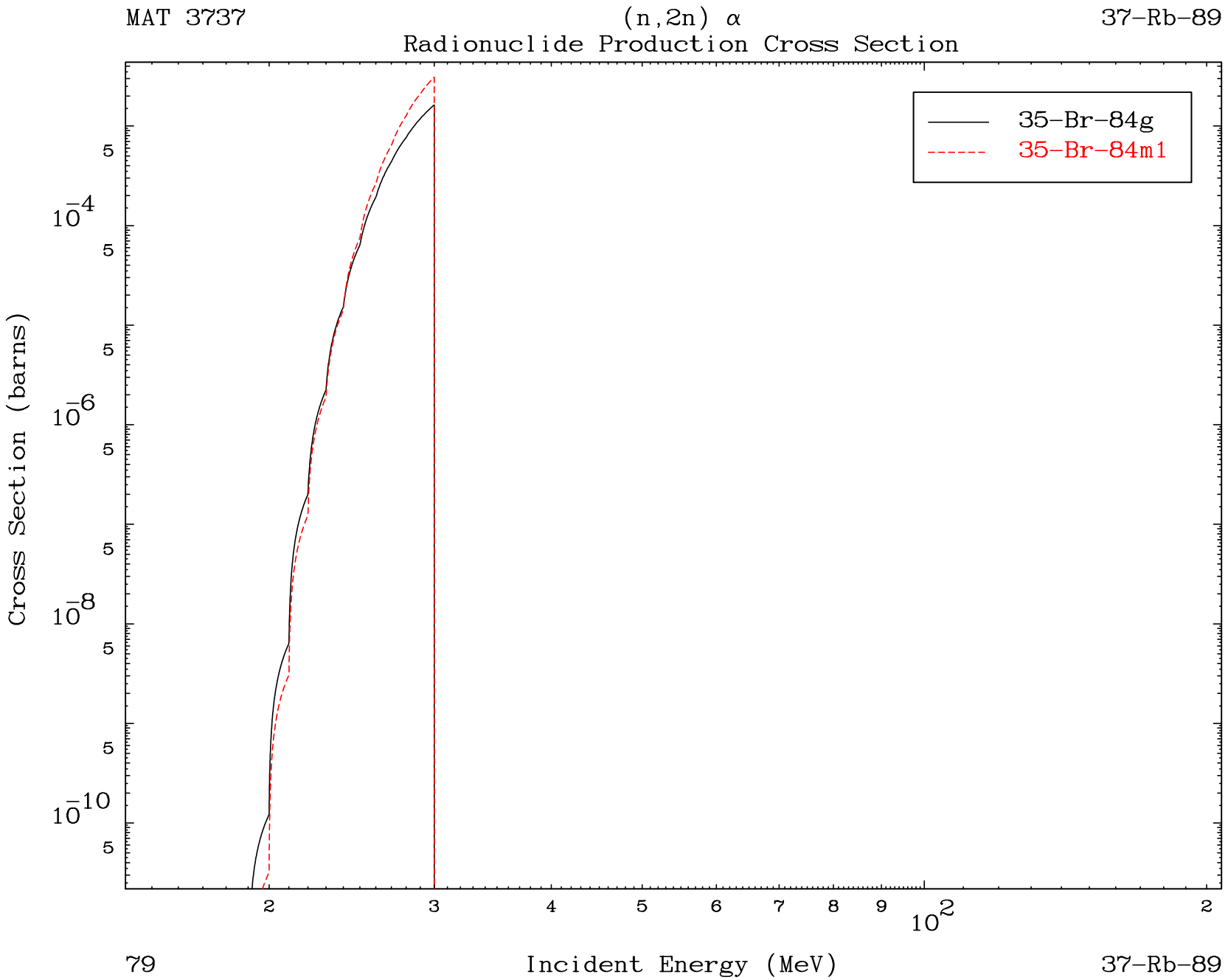

MAT 3737
MT= 64 (n,n') Level
Legendre Coefficients
37-Rb-89
X10-7
4
3
2
1
0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
74
Incident Energy (MeV)
37-Rb-89

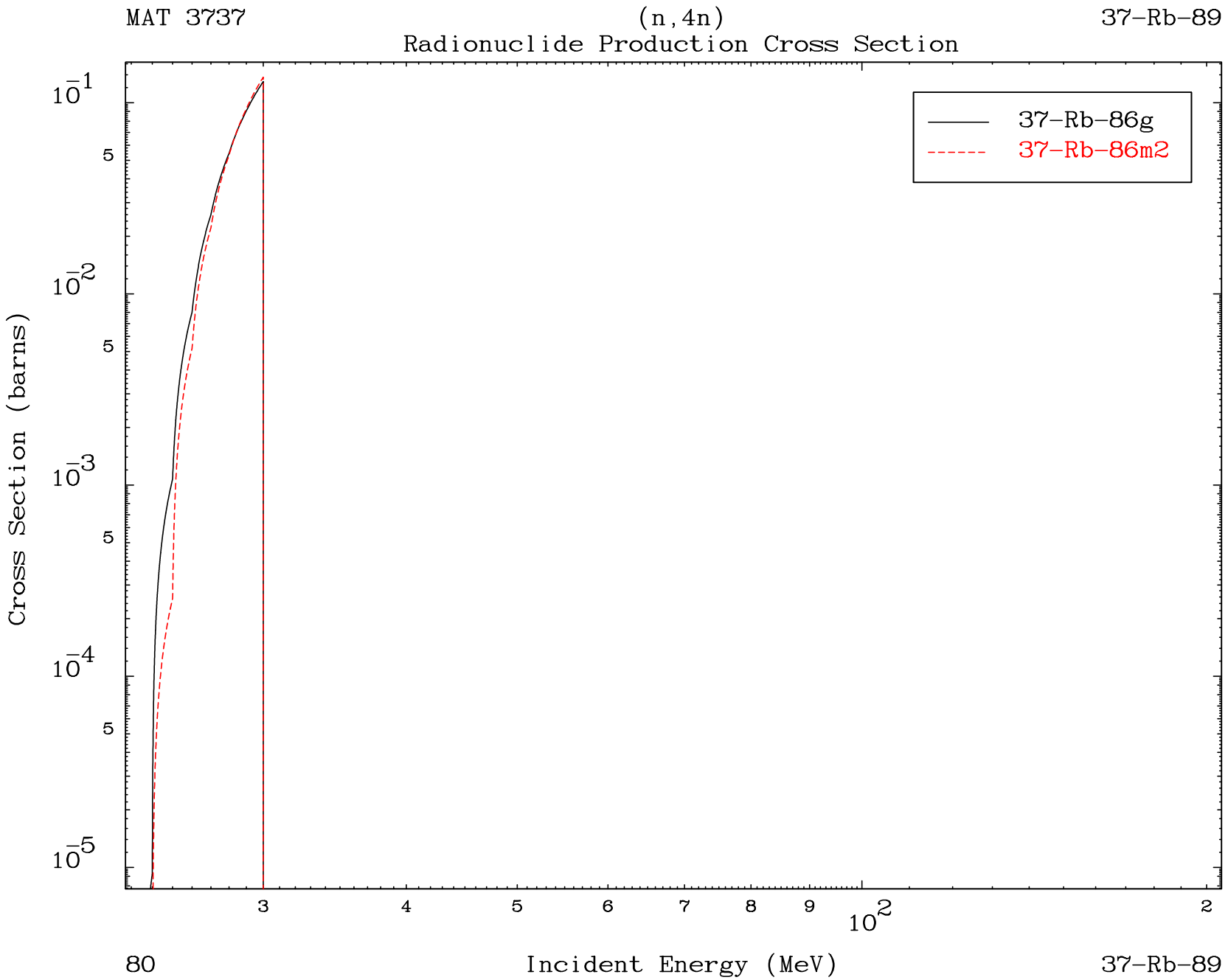

MAT 3737
MT= 65 (n,n') Level
Legendre Coefficients
37-Rb-89
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
75
Incident Energy (MeV)
37-Rb-89

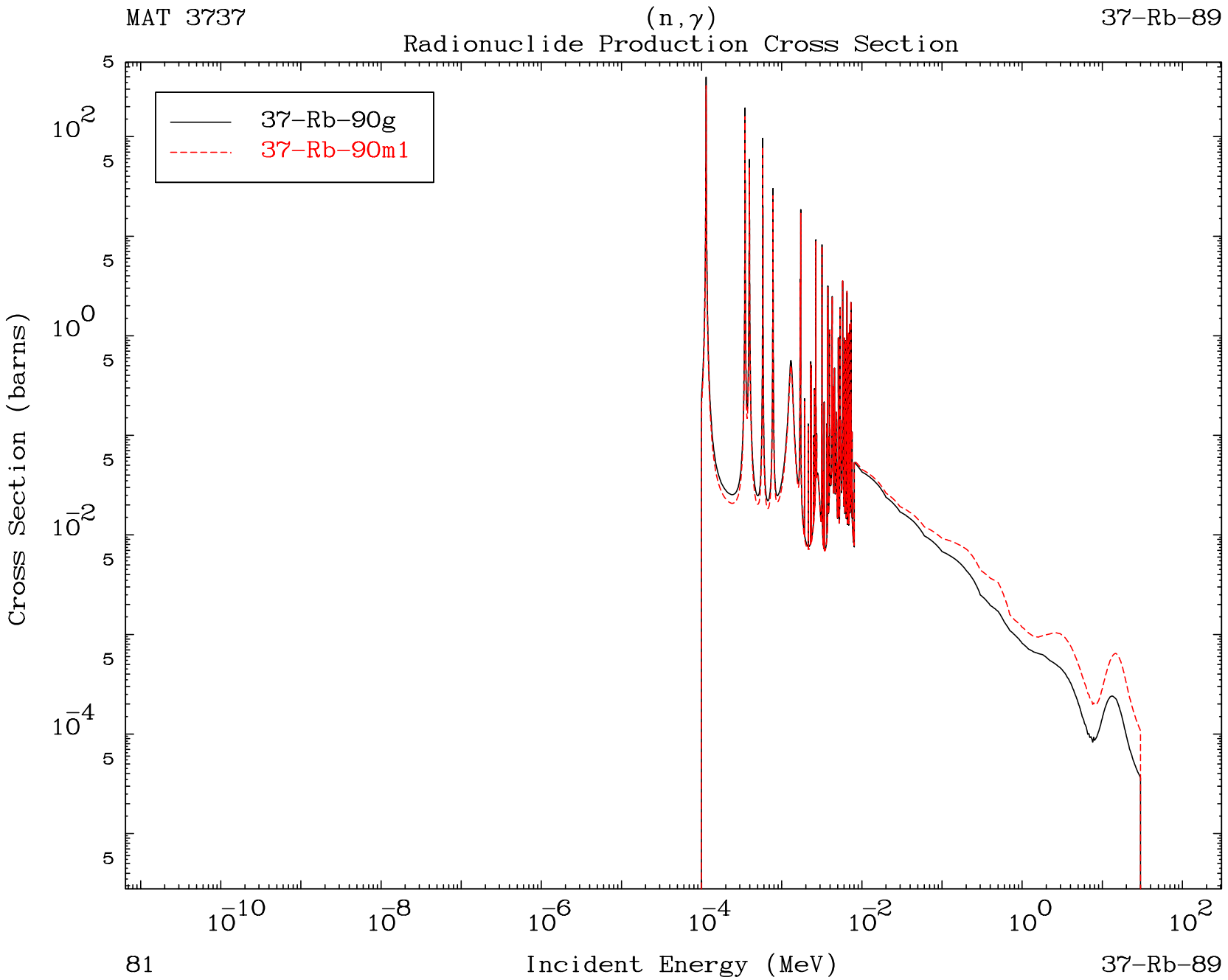

MAT 3737
MT= 65 (n,n') Level
Legendre Coefficients
37-Rb-89
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.025
0.020
0.015
0.010
0.005
0.000
-0.005
Legendre (CM)
0
50
100
150
200
76
Incident Energy (MeV)
37-Rb-89

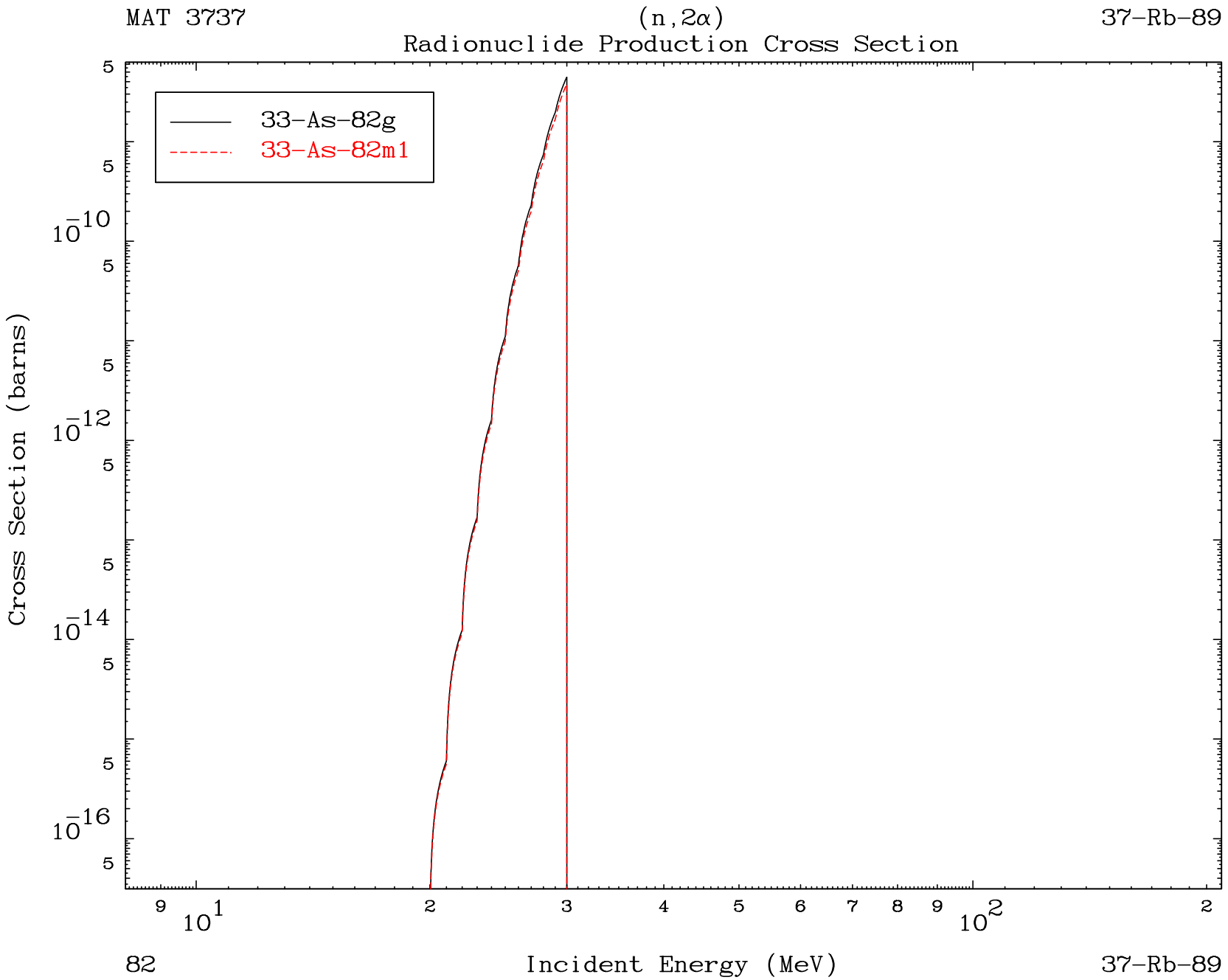

MAT 3737
MT= 65 (n,n') Level
Legendre Coefficients
37-Rb-89
X10^-4
6
4
2
0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
77
Incident Energy (MeV)
37-Rb-89


MAT 3737
MT= 65 (n,n') Level
Legendre Coefficients
37-Rb-89
X10-7
2.5
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
78
Incident Energy (MeV)
37-Rb-89


MAT 3737
(n,2n) α
37-Rb-89
Radionuclide Production Cross Section
35-Br-84g
35-Br-84m1
Cross Section (barns)
10-4
10-6
10-8
10-10
5
2
3
4
5
6
7
8
9
10 2
2
79
Incident Energy (MeV)
37-Rb-89


MAT 3737
(n,4n)
37-Rb-89
Radionuclide Production Cross Section
37-Rb-86g
37-Rb-86m2
Cross Section (barns)
10-1
5
10-2
5
10-3
5
10-4
5
10-5
3
4
5
6
7
8
9
10 2
2
80
Incident Energy (MeV)
37-Rb-89


MAT 3737
(n,γ)
37-Rb-89
Radionuclide Production Cross Section
37-Rb-90g
37-Rb-90m1
Cross Section (barns)
Incident Energy (MeV)
81
37-Rb-89


MAT 3737
(n,2α)
37-Rb-89
Radionuclide Production Cross Section
33-As-82g
33-As-82m1
Cross Section (barns)
10^-10
10^-12
10^-14
10^-16
5
9
10^1
2
3
4
5
6
7
8
9
10^2
2
82
Incident Energy (MeV)
37-Rb-89