Program EVALPLOT
(Version 2018-1)
by
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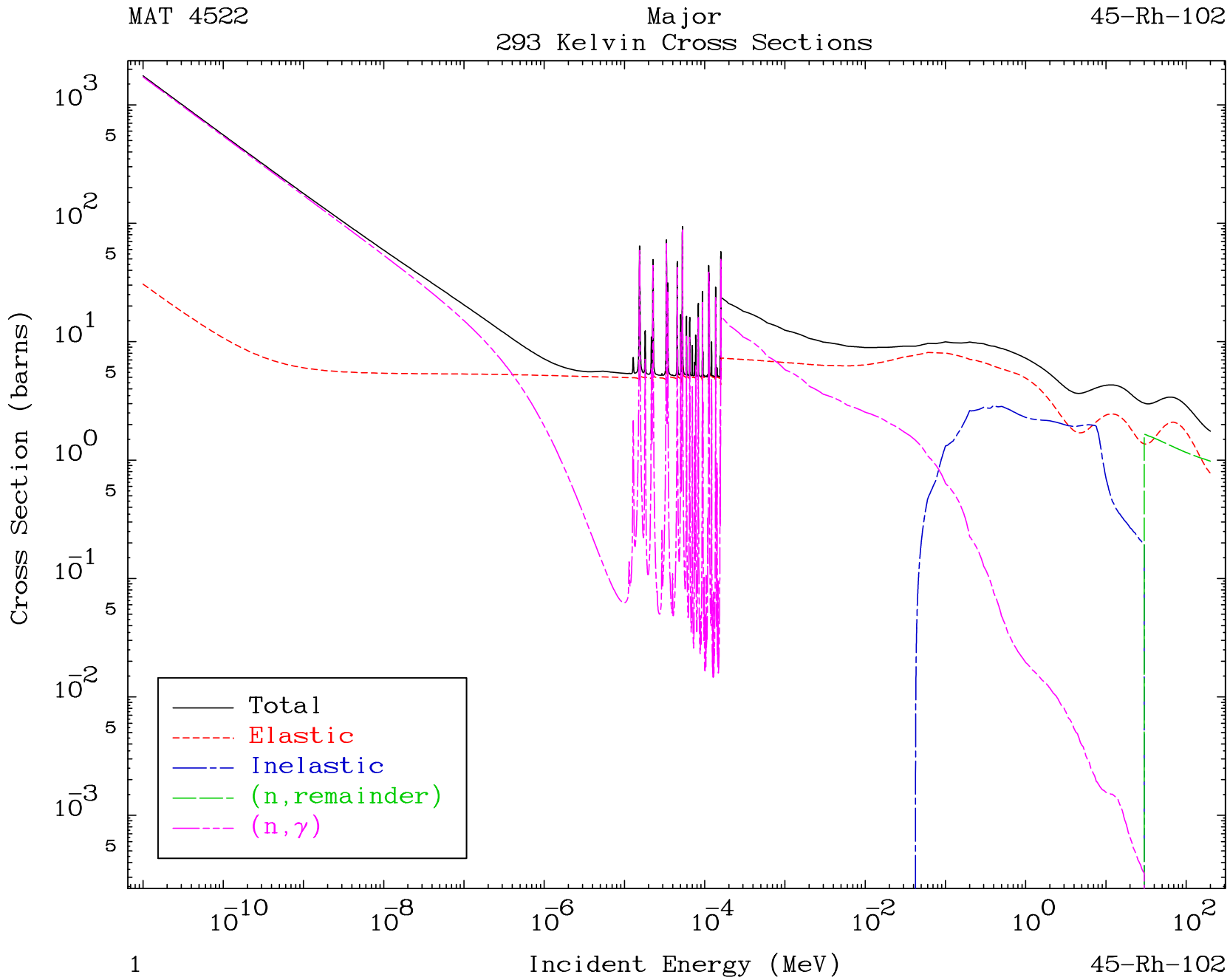
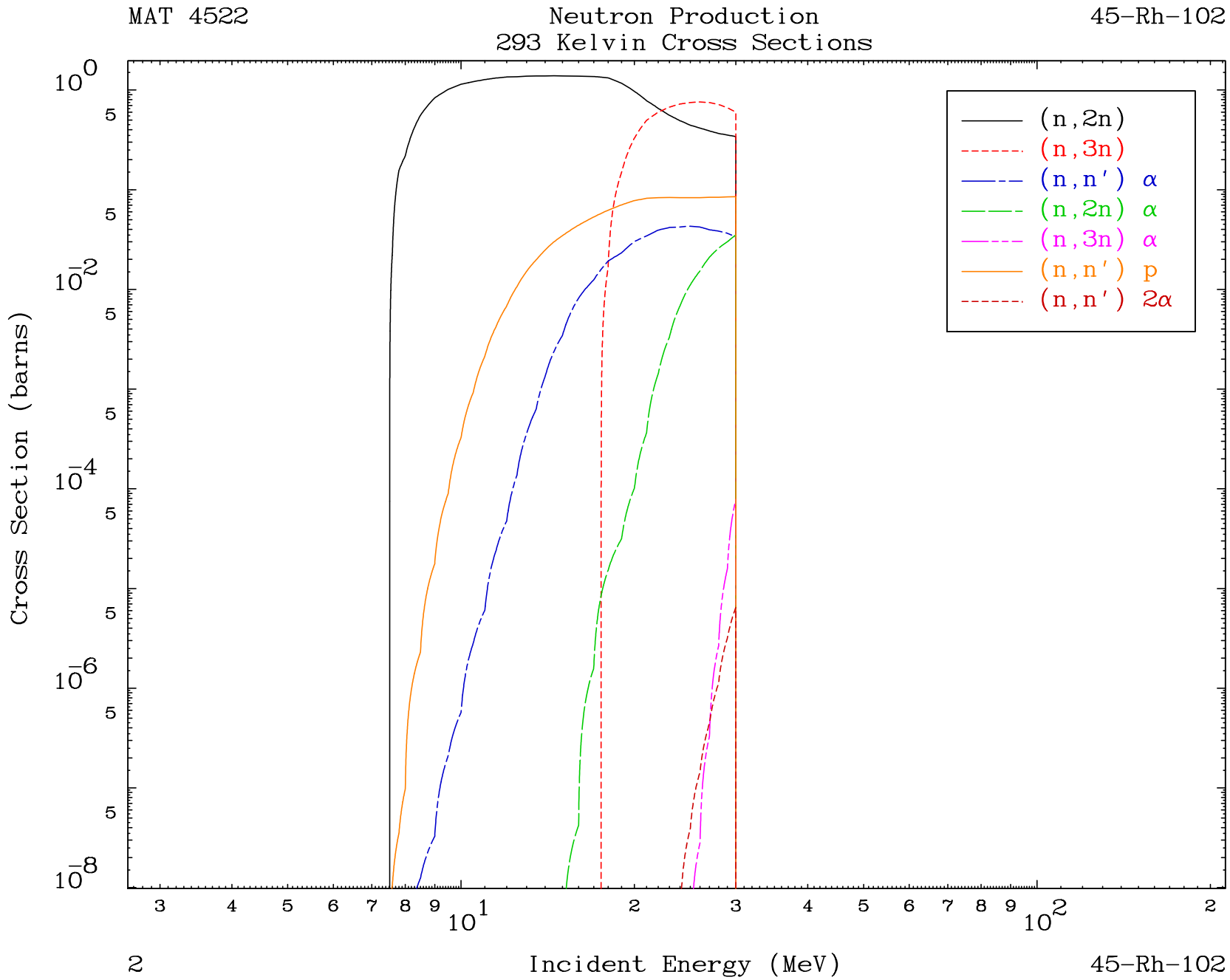
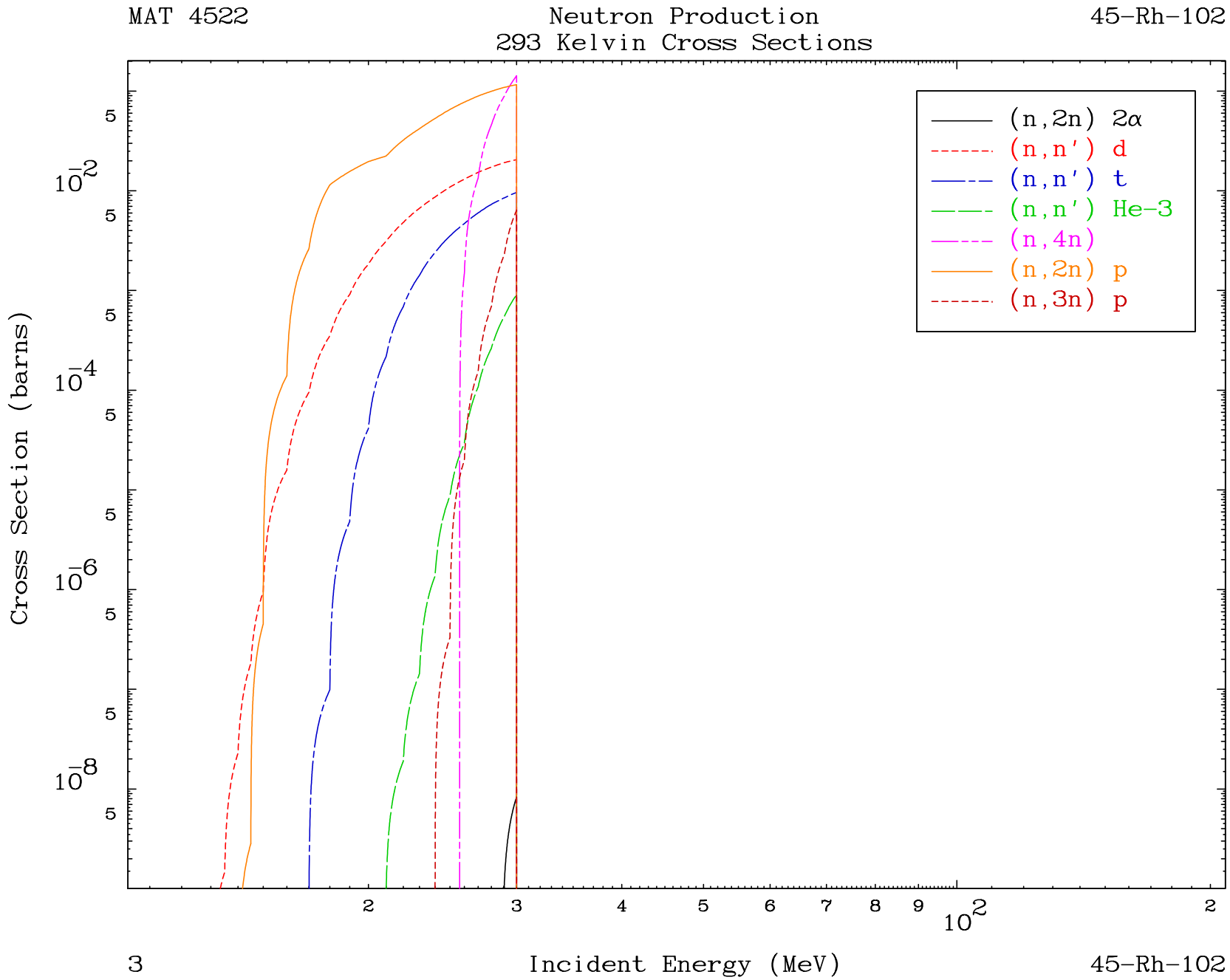
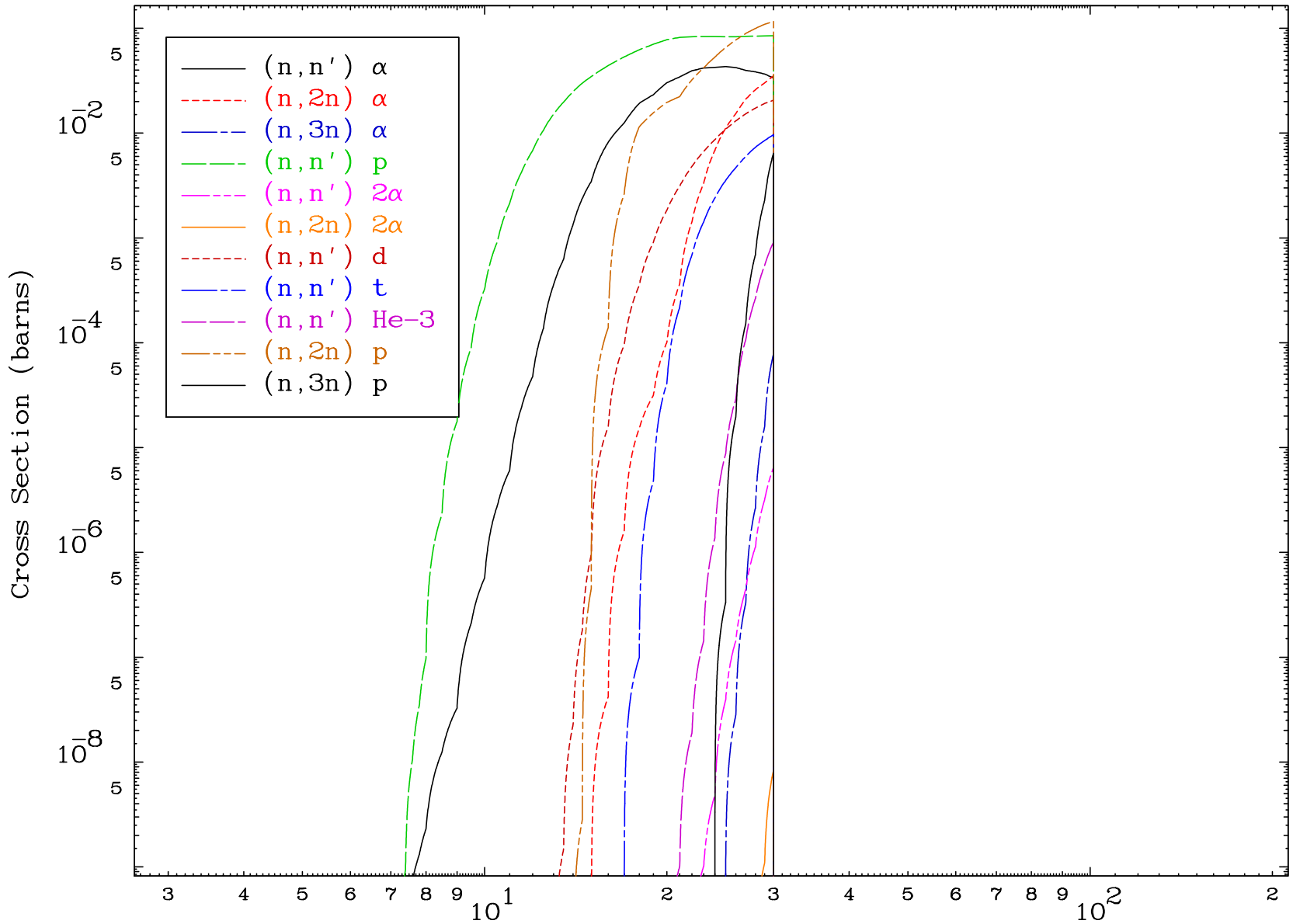
Press Mouse Button to Start

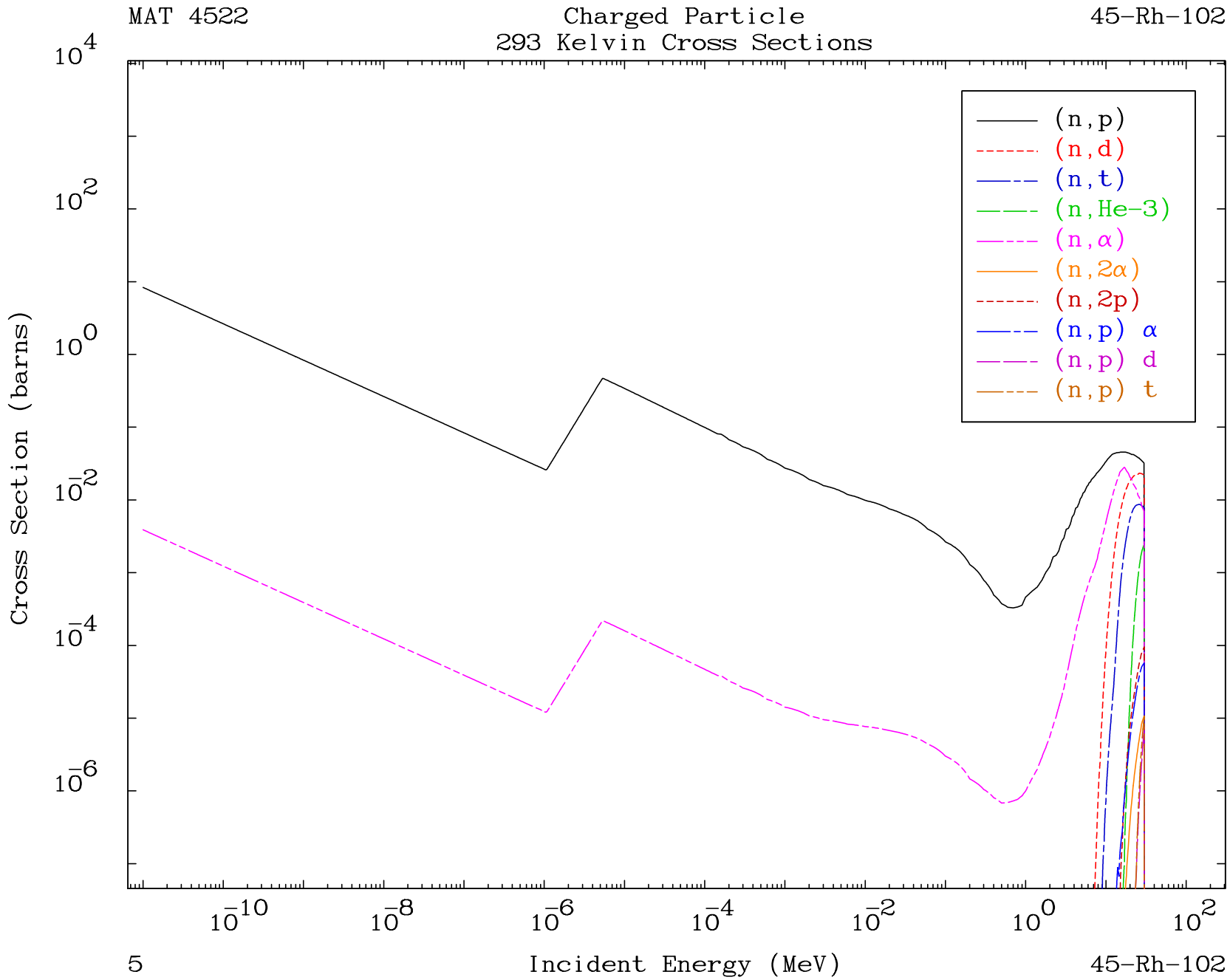

MAT 4522
Major
293 Kelvin Cross Sections
45-Rh-102
Cross Section (barns)
Incident Energy (MeV)
Total
Elastic
Inelastic
(n,remainder)
(n,γ)
1
45-Rh-102

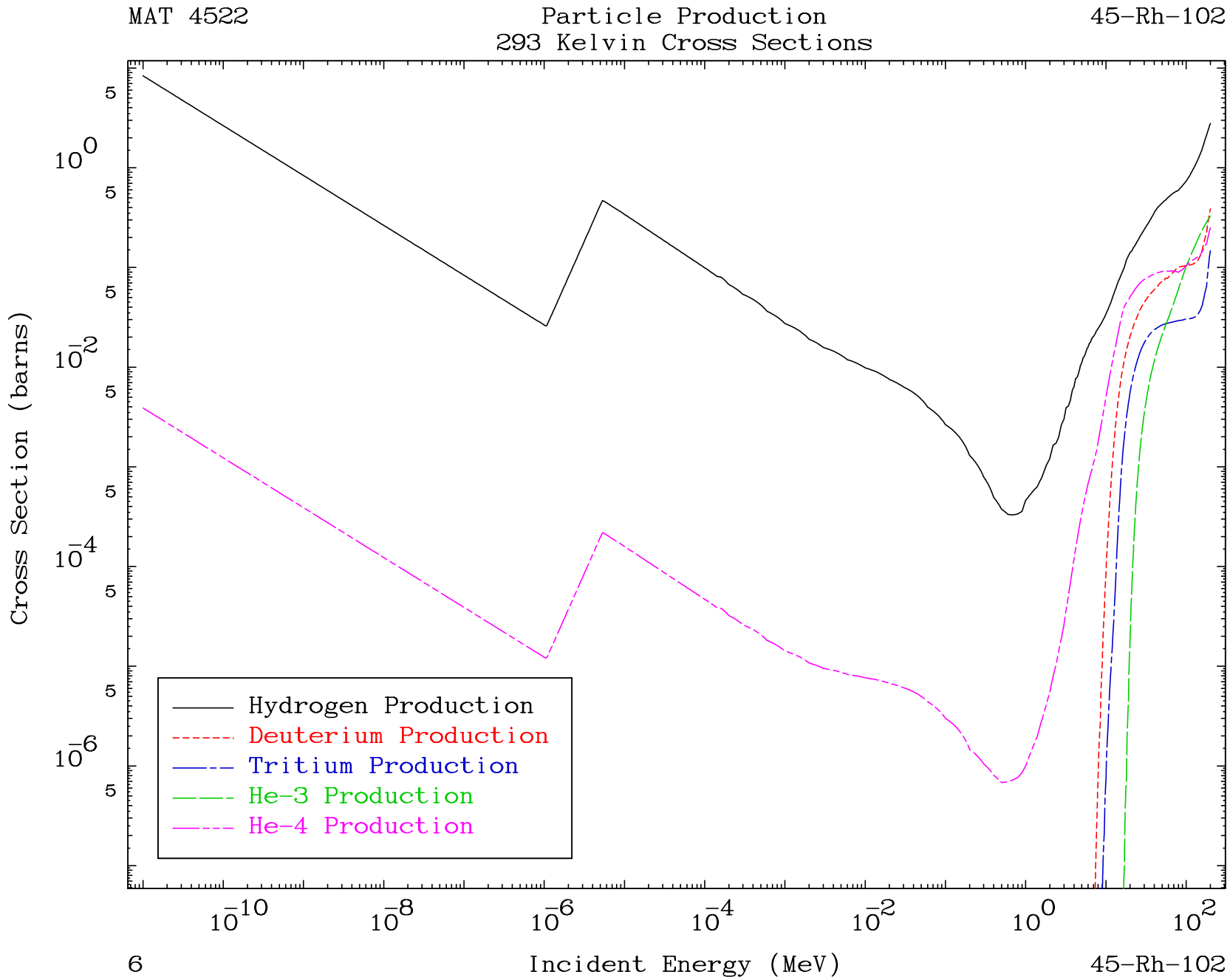

MAT 4522
Neutron Production
293 Kelvin Cross Sections
45-Rh-102
Cross Section (barns)
Incident Energy (MeV)
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
45-Rh-102

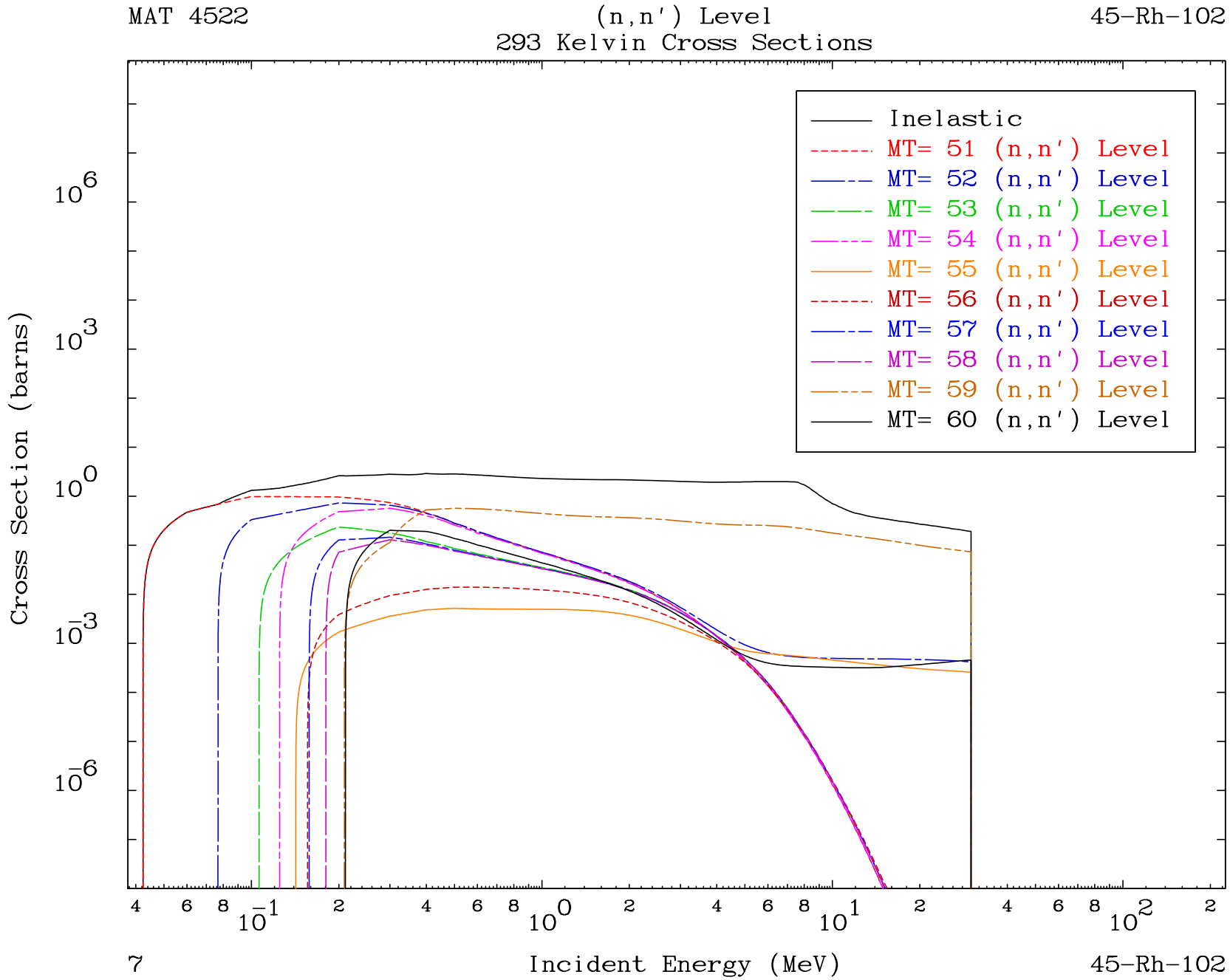

MAT 4522
Neutron Production
293 Kelvin Cross Sections
45-Rh-102
(n,2n) 2α
(n,n') d
(n,n') t
(n,n') He-3
(n,4n)
(n,2n) p
(n,3n) p
Cross Section (barns)
Incident Energy (MeV)
3
45-Rh-102

Charged Particle
293 Kelvin Cross Sections

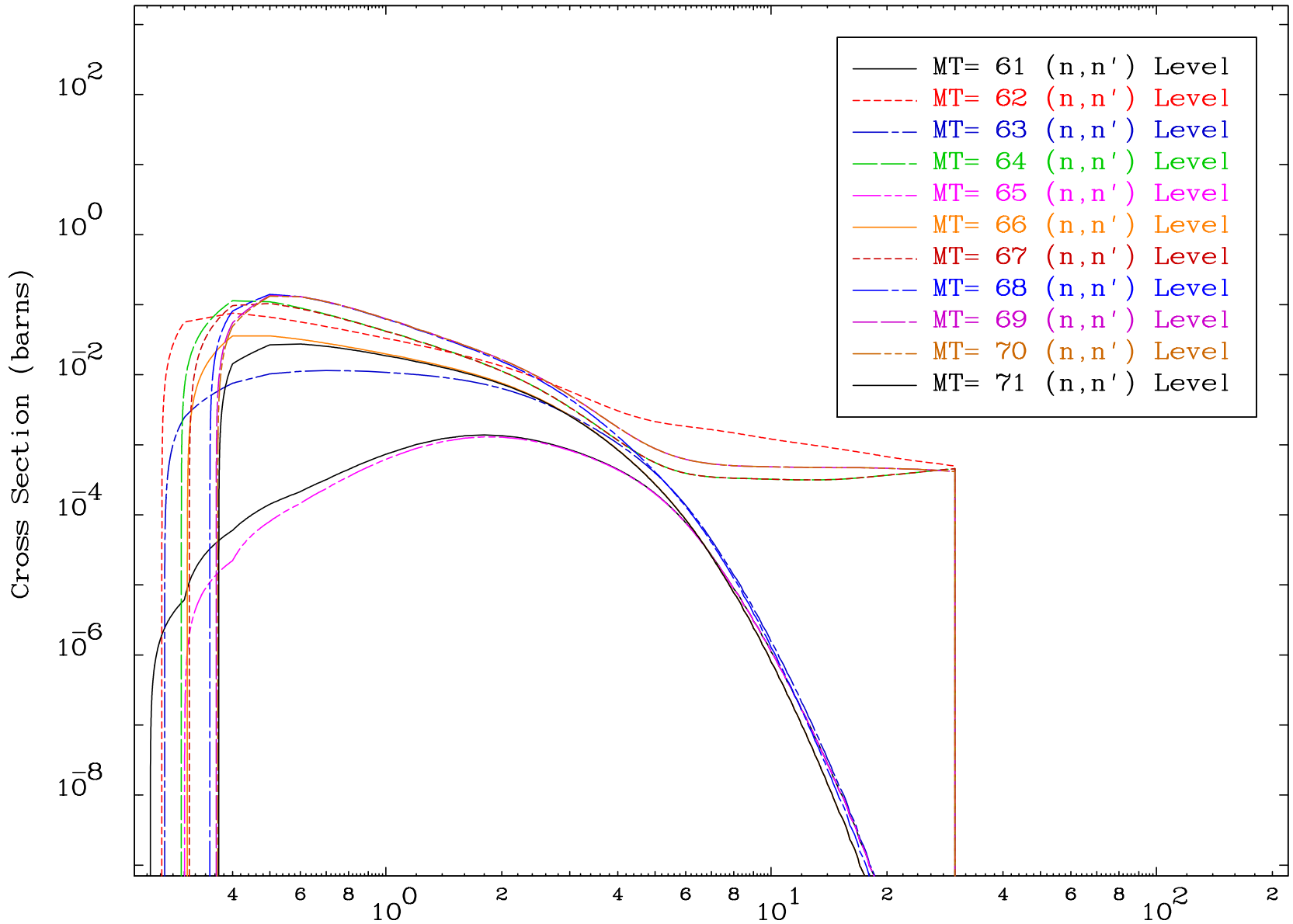


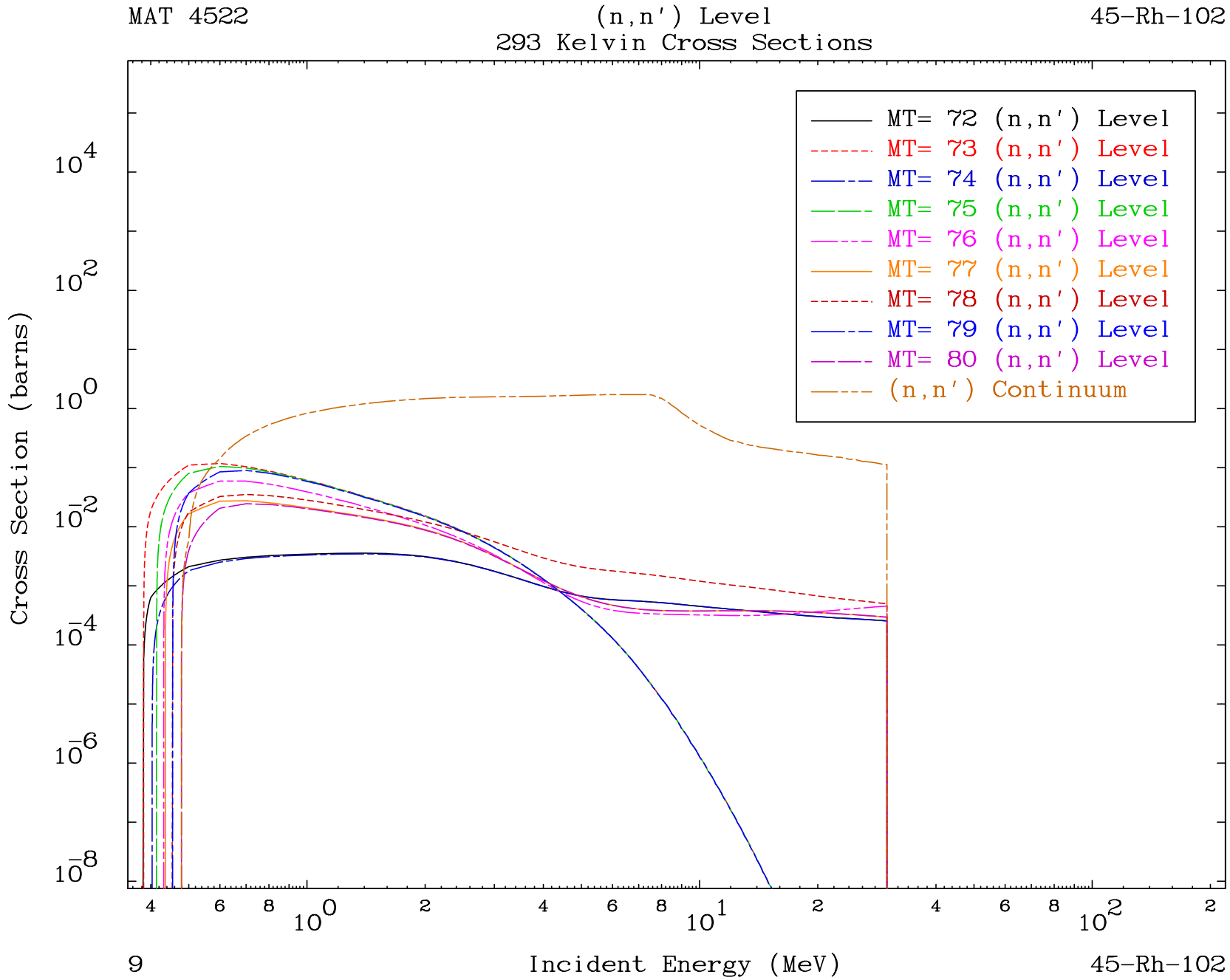

MAT 4522
Charged Particle
293 Kelvin Cross Sections
45-Rh-102
(n,p)
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
Cross Section (barns)
Incident Energy (MeV)
5
45-Rh-102

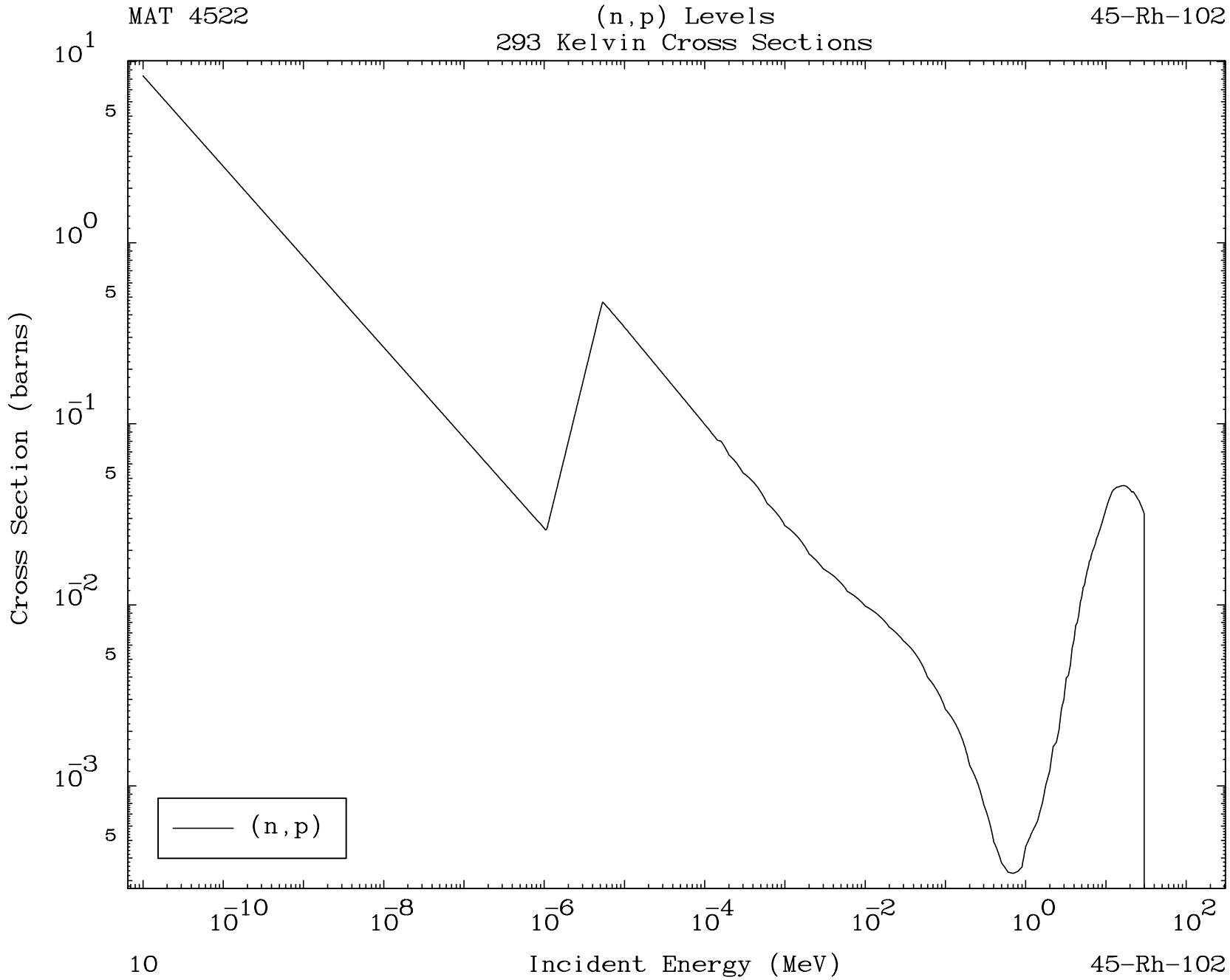

MAT 4522
Particle Production
293 Kelvin Cross Sections
45-Rh-102
Cross Section (barns)
Incident Energy (MeV)
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production
6
45-Rh-102


MAT 4522
(n,n') Level
293 Kelvin Cross Sections
45-Rh-102
Inelastic
MT= 51 (n,n') Level
MT= 52 (n,n') Level
MT= 53 (n,n') Level
MT= 54 (n,n') Level
MT= 55 (n,n') Level
MT= 56 (n,n') Level
MT= 57 (n,n') Level
MT= 58 (n,n') Level
MT= 59 (n,n') Level
MT= 60 (n,n') Level
Cross Section (barns)
Incident Energy (MeV)
7
45-Rh-102

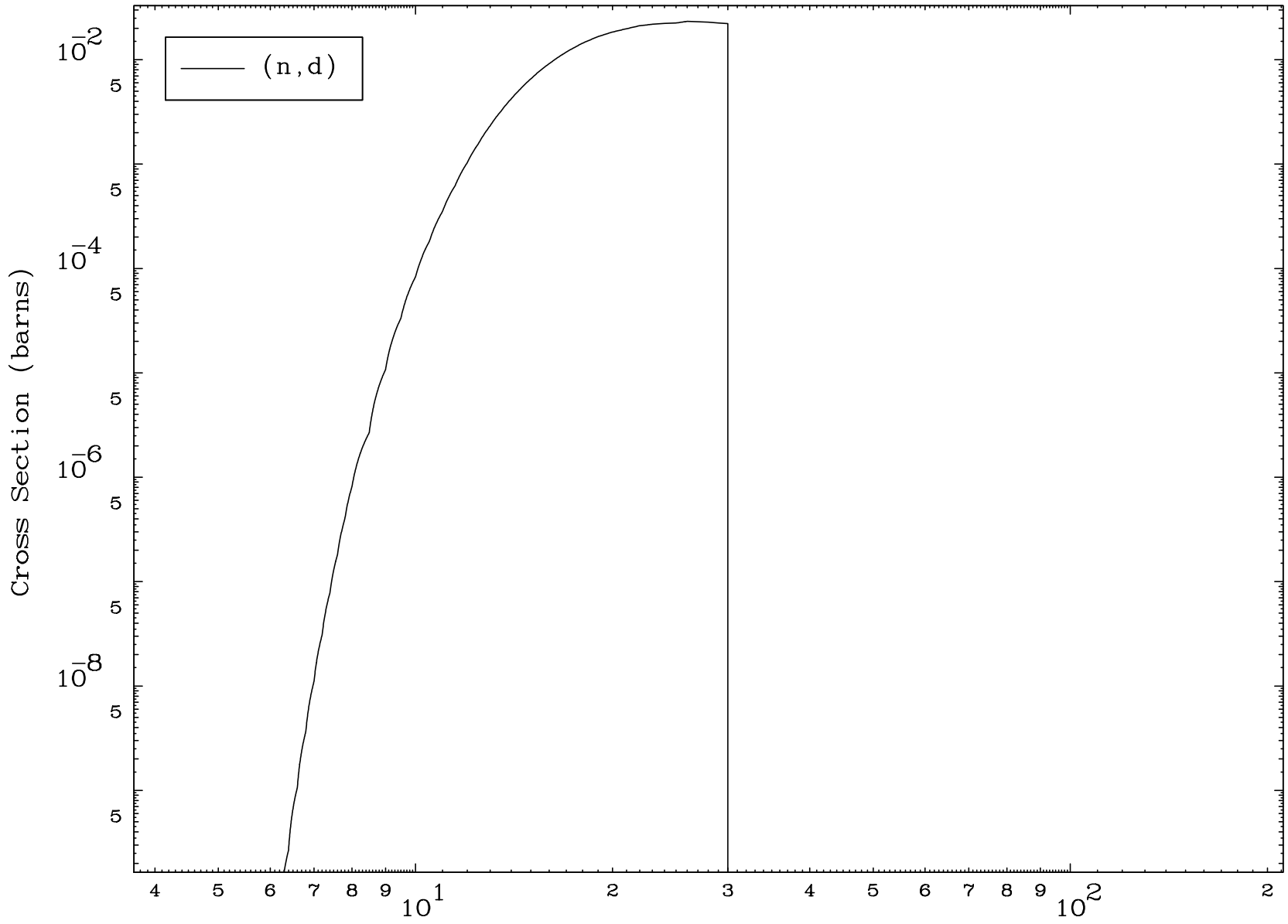
(n,n') Level
293 Kelvin Cross Sections

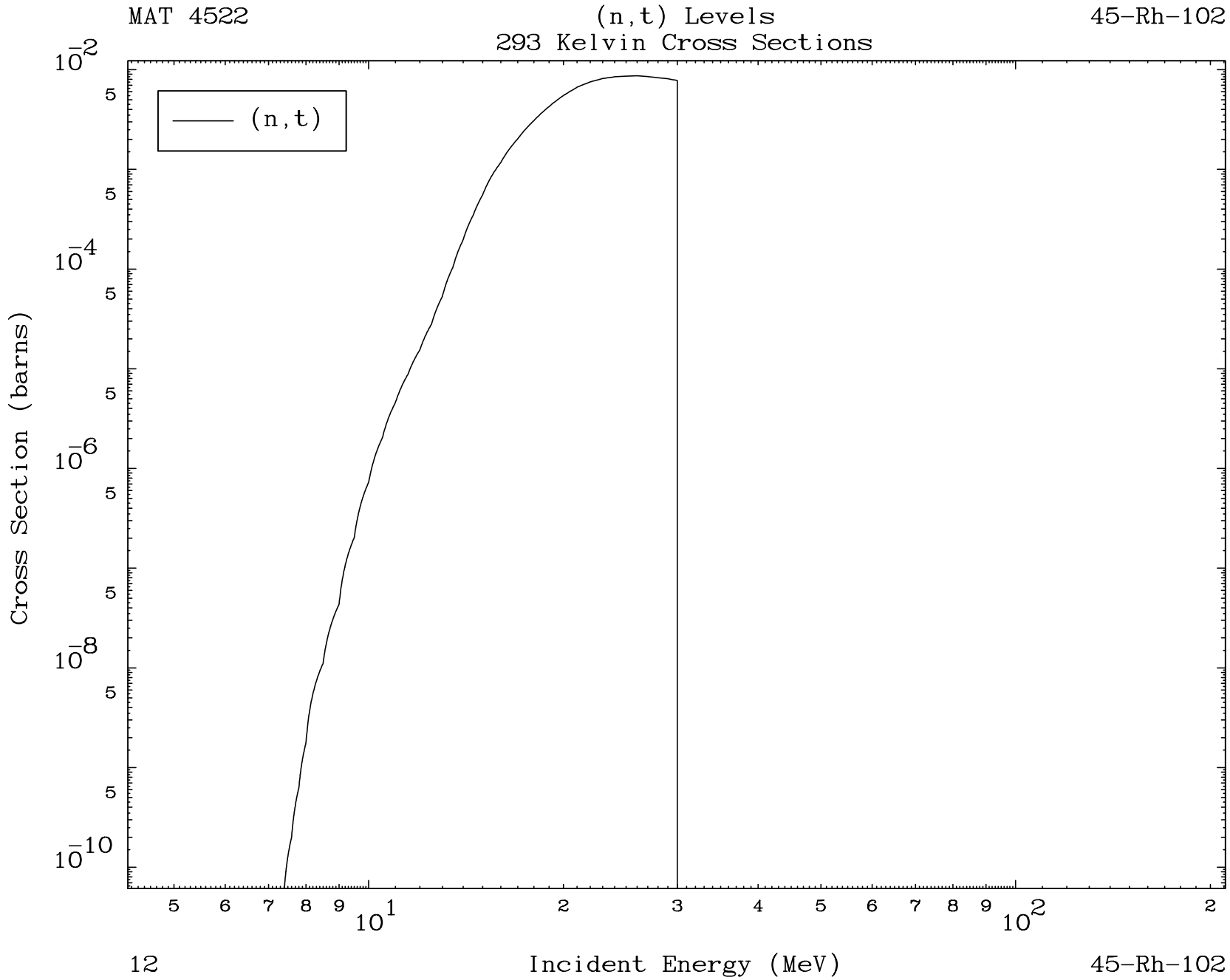


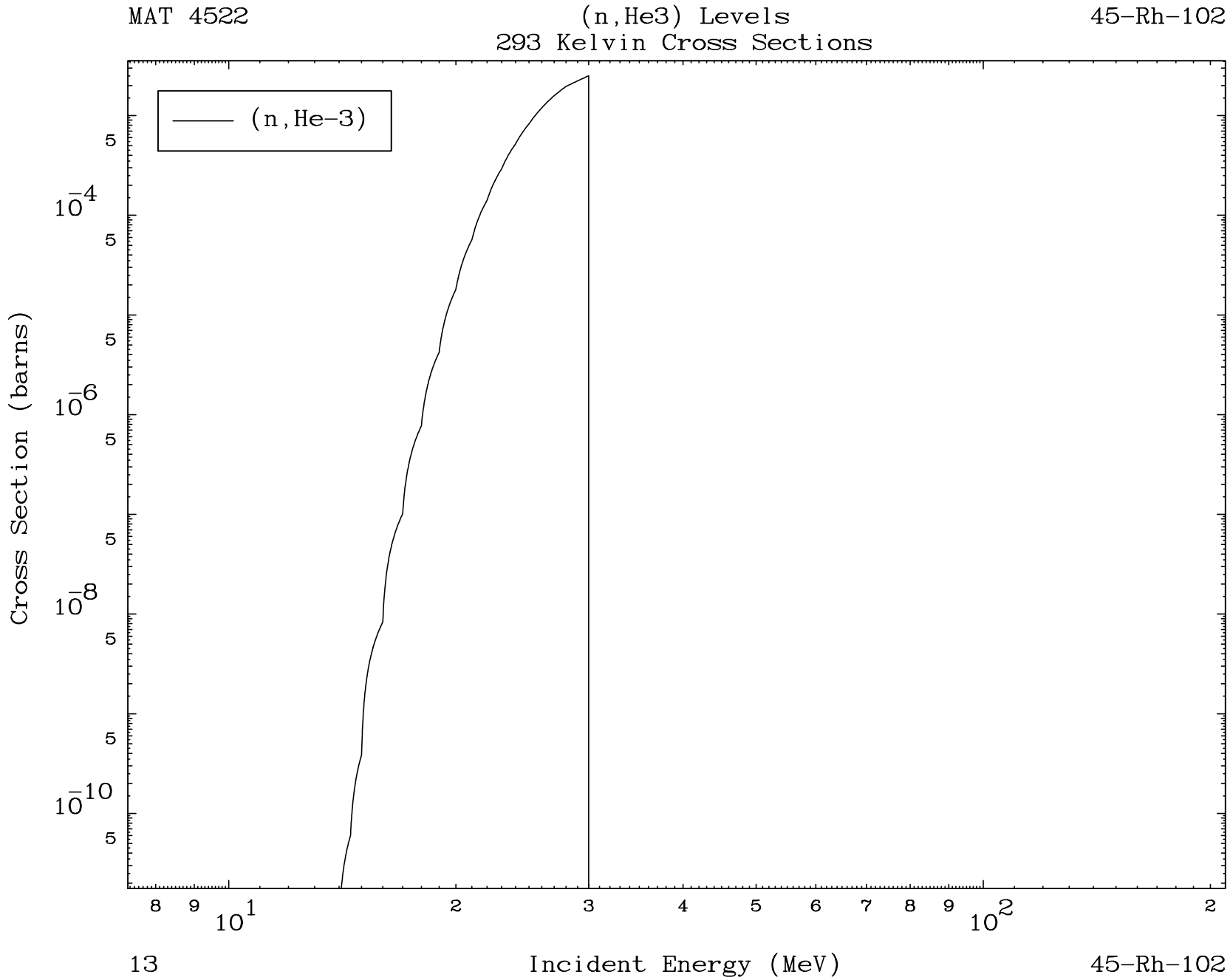

MAT 4522
(n,n') Level
293 Kelvin Cross Sections
45-Rh-102
MT= 72 (n,n') Level
MT= 73 (n,n') Level
MT= 74 (n,n') Level
MT= 75 (n,n') Level
MT= 76 (n,n') Level
MT= 77 (n,n') Level
MT= 78 (n,n') Level
MT= 79 (n,n') Level
MT= 80 (n,n') Level
(n,n') Continuum
Cross Section (barns)
Incident Energy (MeV)
9
45-Rh-102

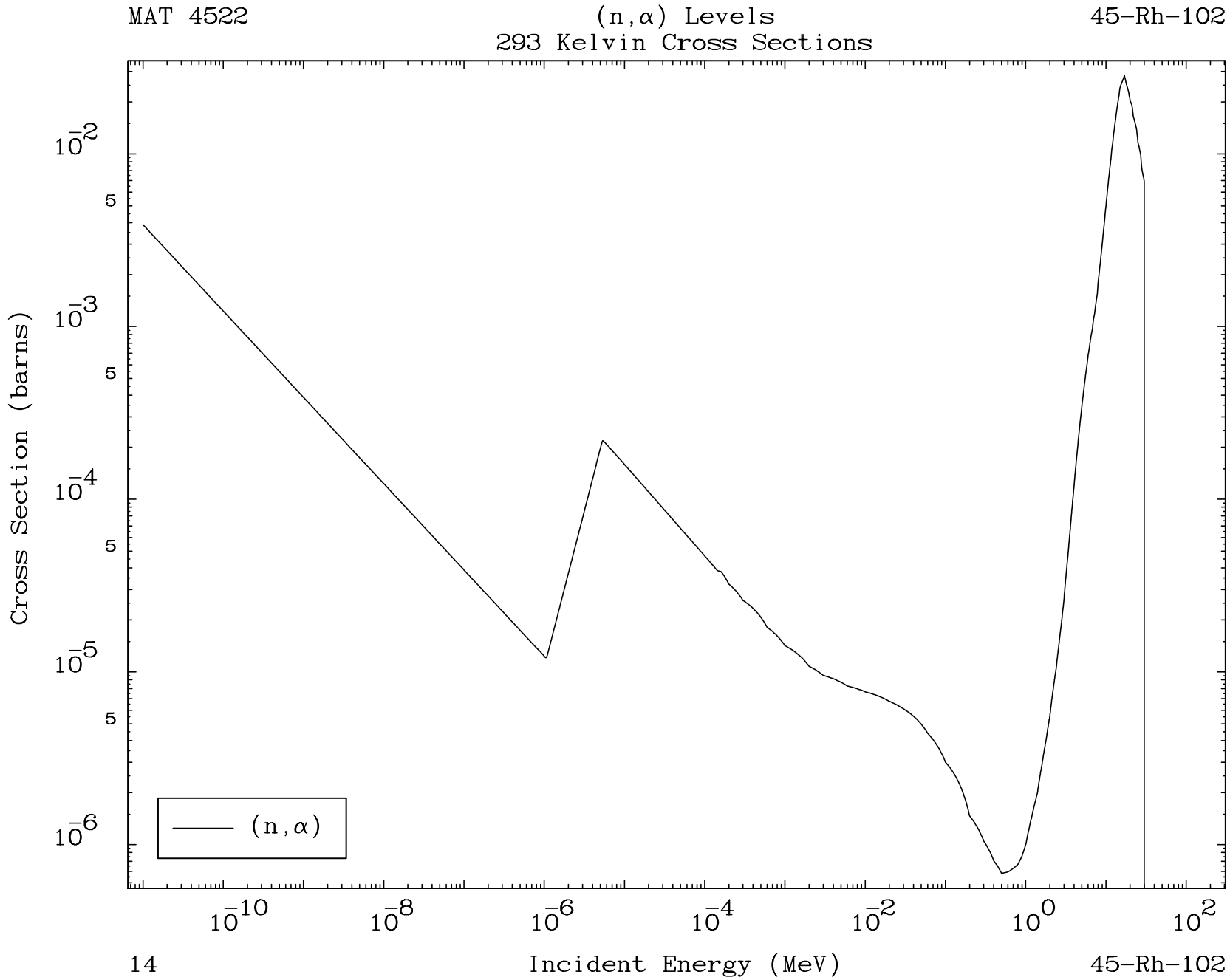

MAT 4522
(n,p) Levels
293 Kelvin Cross Sections
45-Rh-102
Cross Section (barns)
Incident Energy (MeV)
(n,p)
10
45-Rh-102

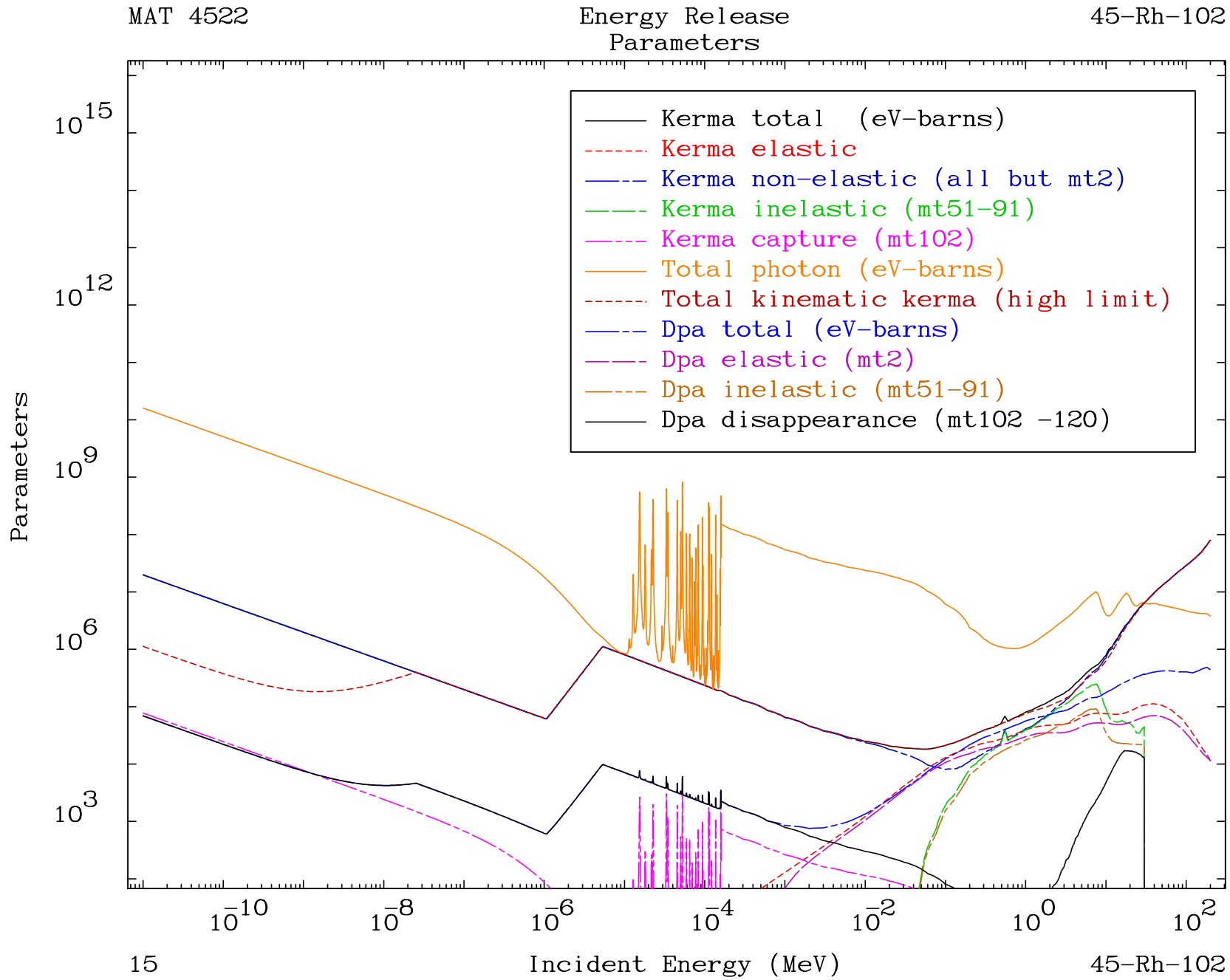
(n,d) Levels
293 Kelvin Cross Sections

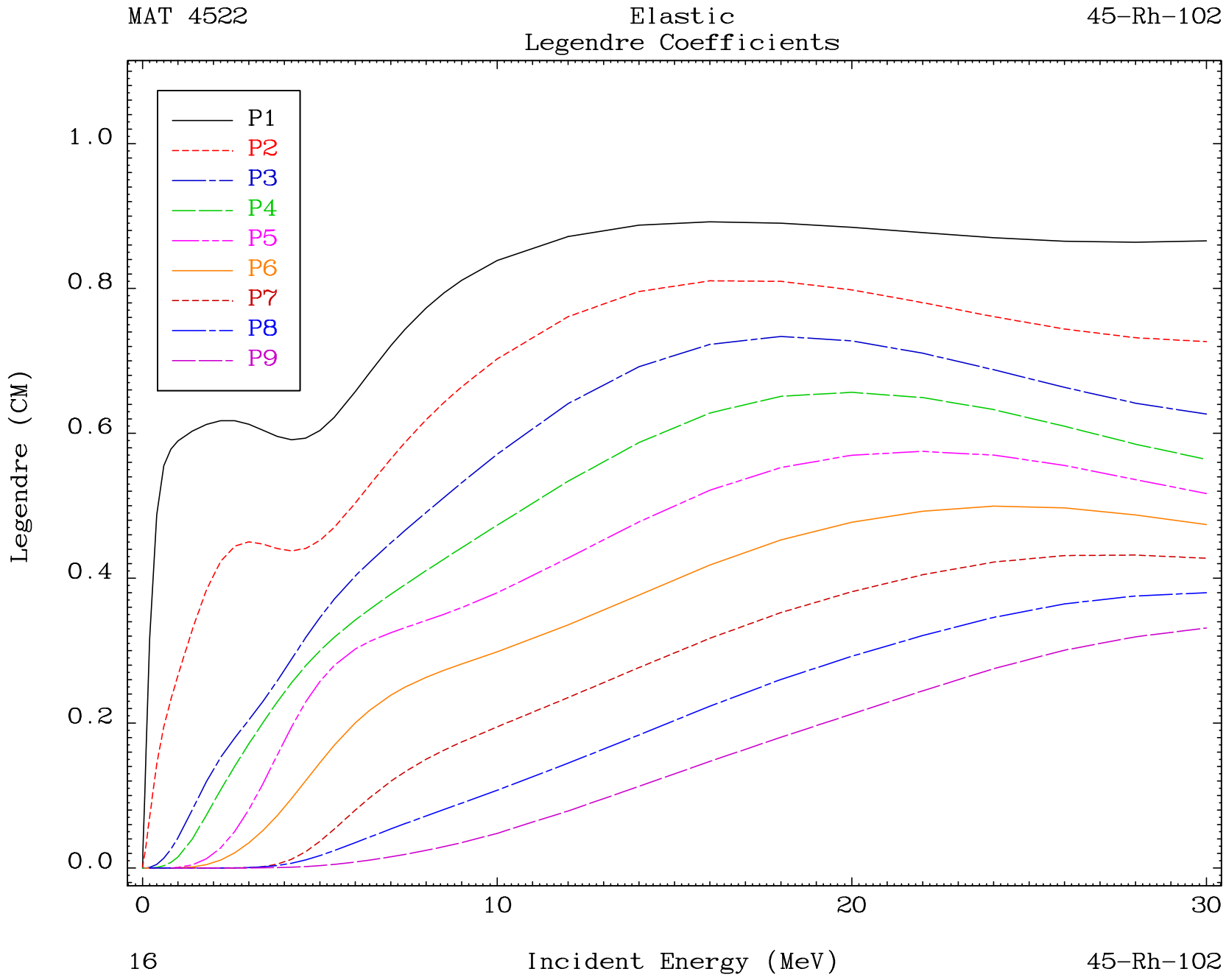


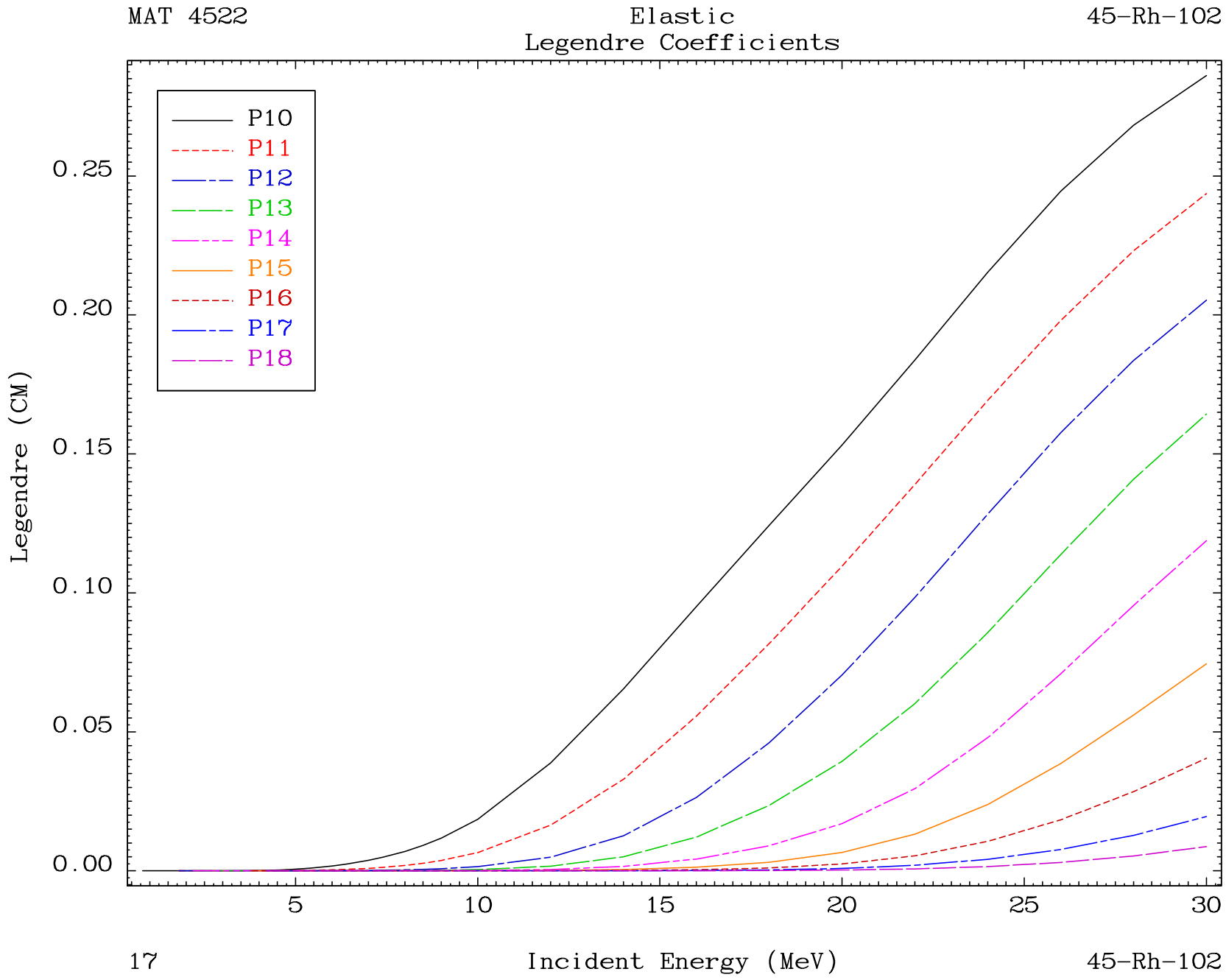

MAT 4522
(n,t) Levels
293 Kelvin Cross Sections
45-Rh-102
(n,t)
Cross Section (barns)
Incident Energy (MeV)
12
45-Rh-102

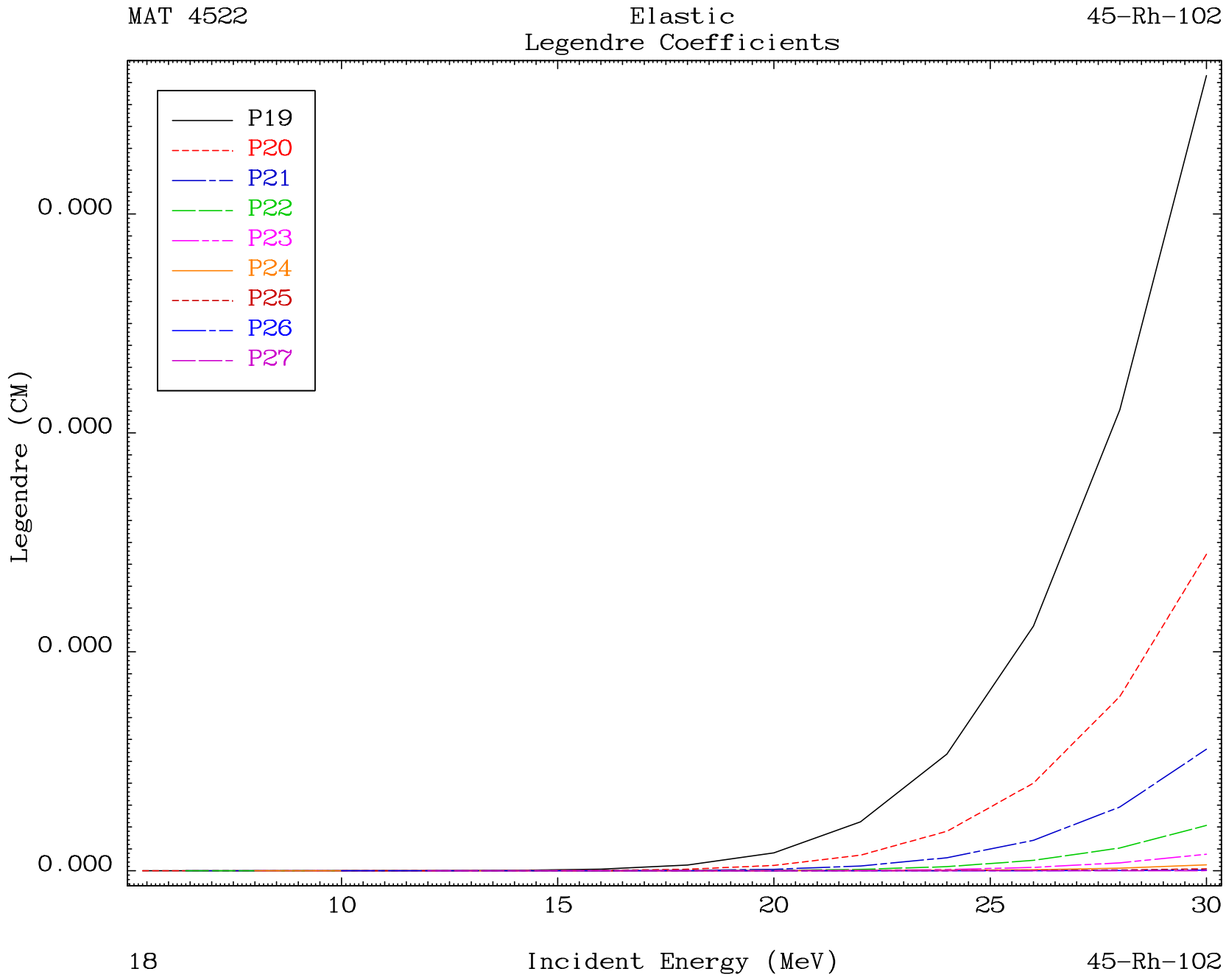

MAT 4522
(n,He3) Levels
293 Kelvin Cross Sections
45-Rh-102
(n,He-3)
Cross Section (barns)
Incident Energy (MeV)
13
45-Rh-102

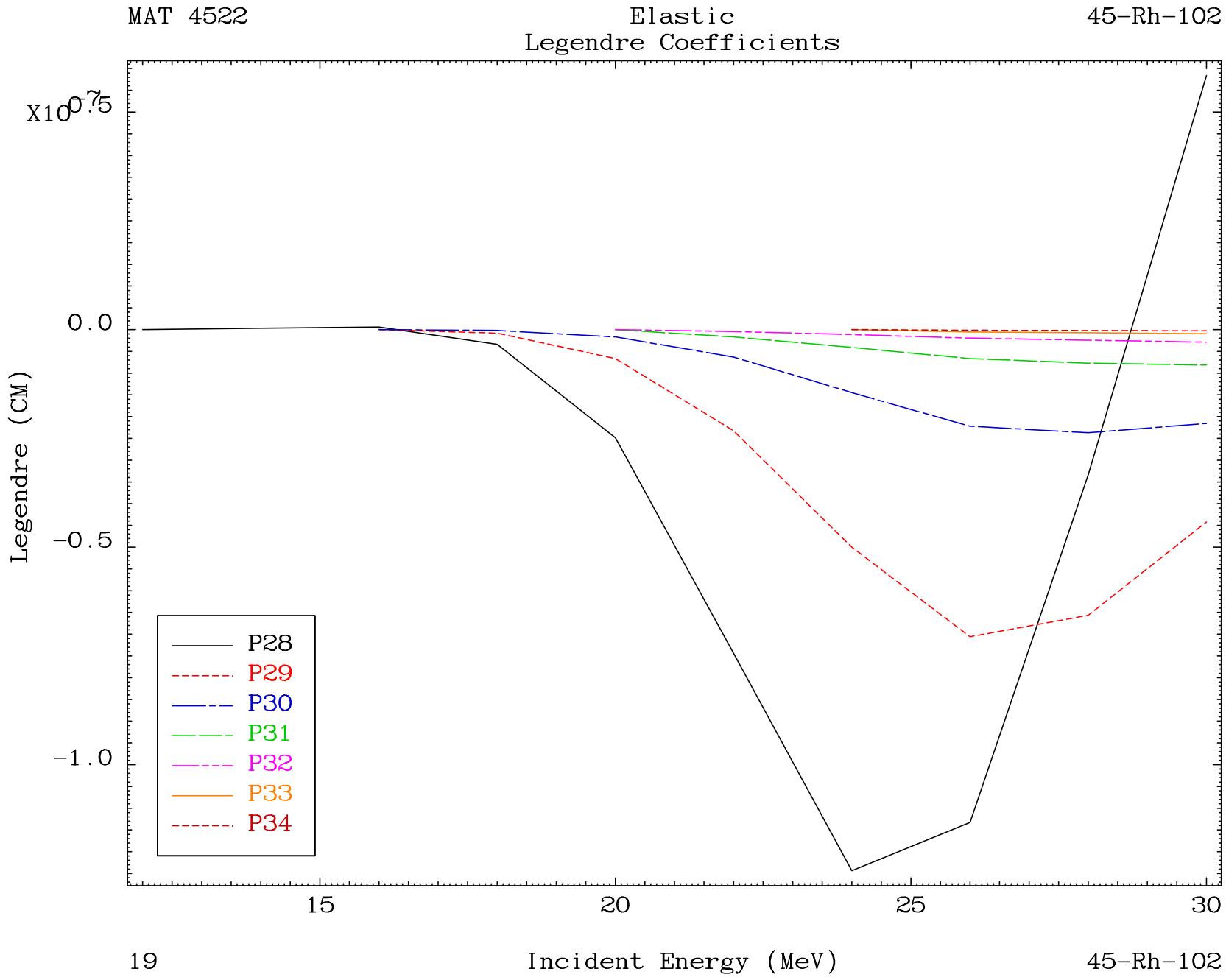

MAT 4522
(n,α) Levels
293 Kelvin Cross Sections
45-Rh-102
Cross Section (barns)
10^-2
5
10^-3
5
10^-4
5
10^-5
5
10^-6
(n,α)
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
Incident Energy (MeV)
14
45-Rh-102

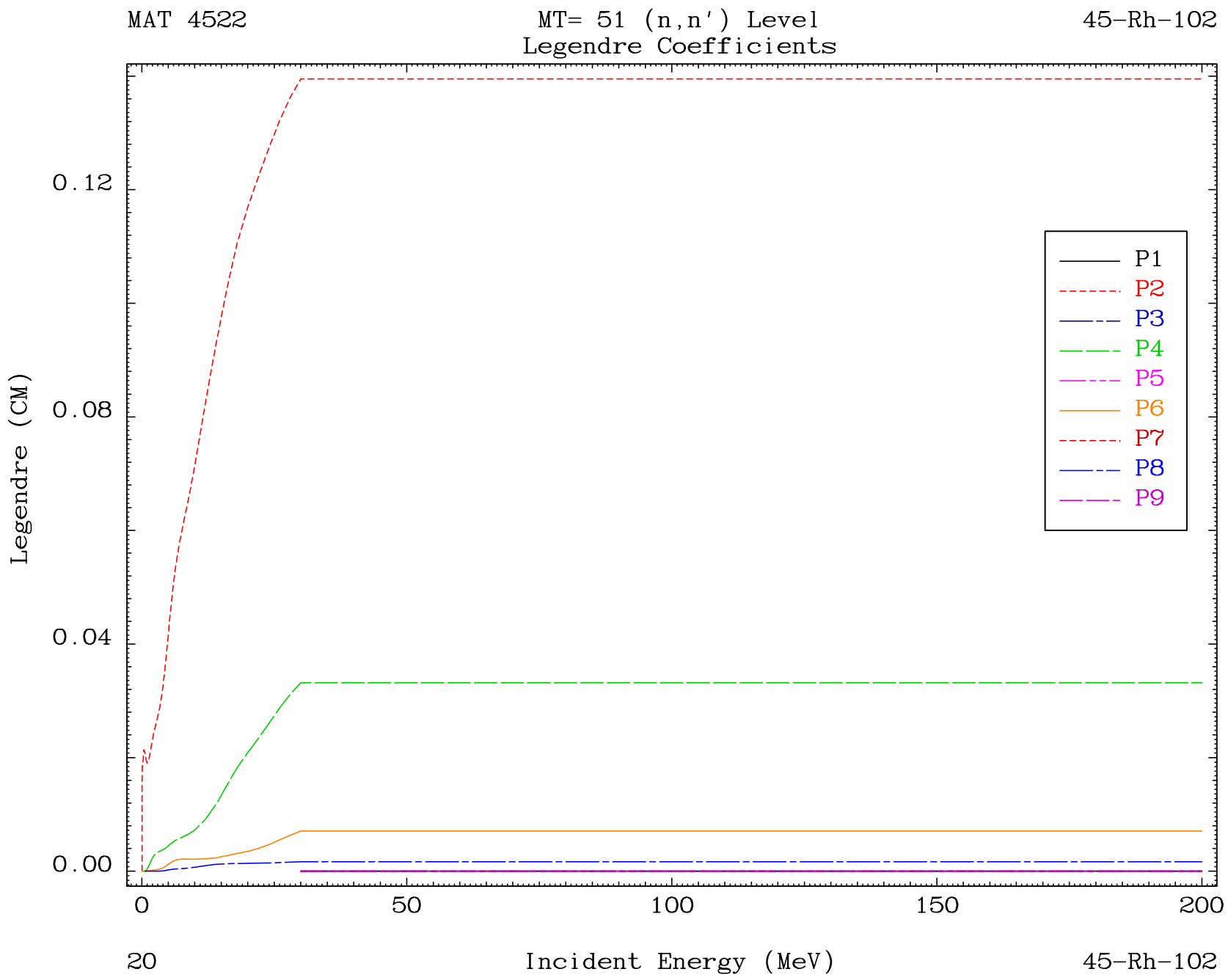

MAT 4522
Energy Release Parameters
45-Rh-102
Kerma total (eV-barns)
Kerma elastic
Kerma non-elastic (all but mt2)
Kerma inelastic (mt51-91)
Kerma capture (mt102)
Total photon (eV-barns)
Total kinematic kerma (high limit)
Dpa total (eV-barns)
Dpa elastic (mt2)
Dpa inelastic (mt51-91)
Dpa disappearance (mt102 -120)
Parameters
10^{15}
10^{12}
10^{9}
10^{6}
10^{3}
10^{-10}
10^{-8}
10^{-6}
10^{-4}
10^{-2}
10^{0}
10^{2}
Incident Energy (MeV)
15
45-Rh-102

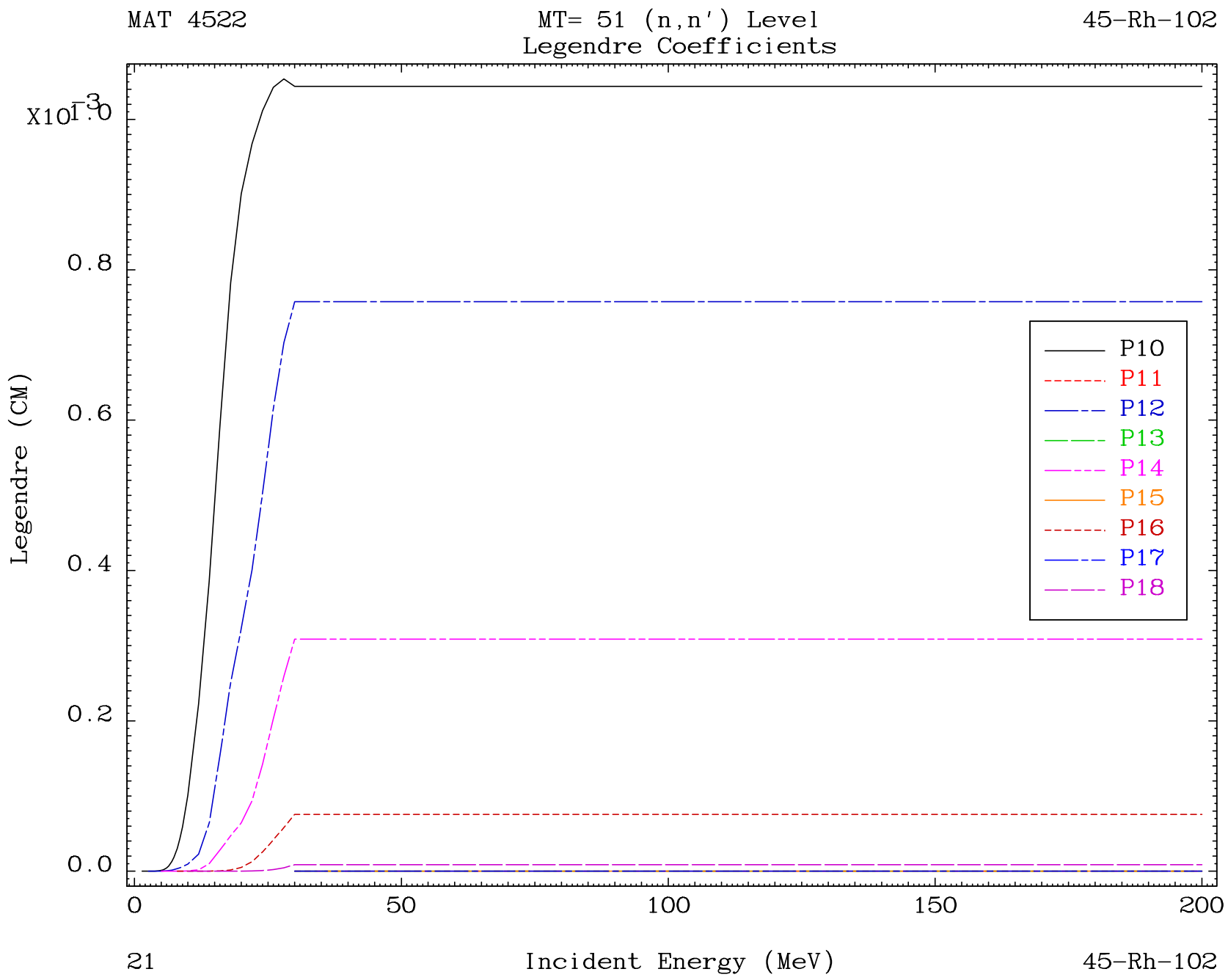

MAT 4522
Elastic
Legendre Coefficients
45-Rh-102
P1
P2
P3
P4
P5
P6
P7
P8
P9
Legendre (CM)
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
16
Incident Energy (MeV)
45-Rh-102

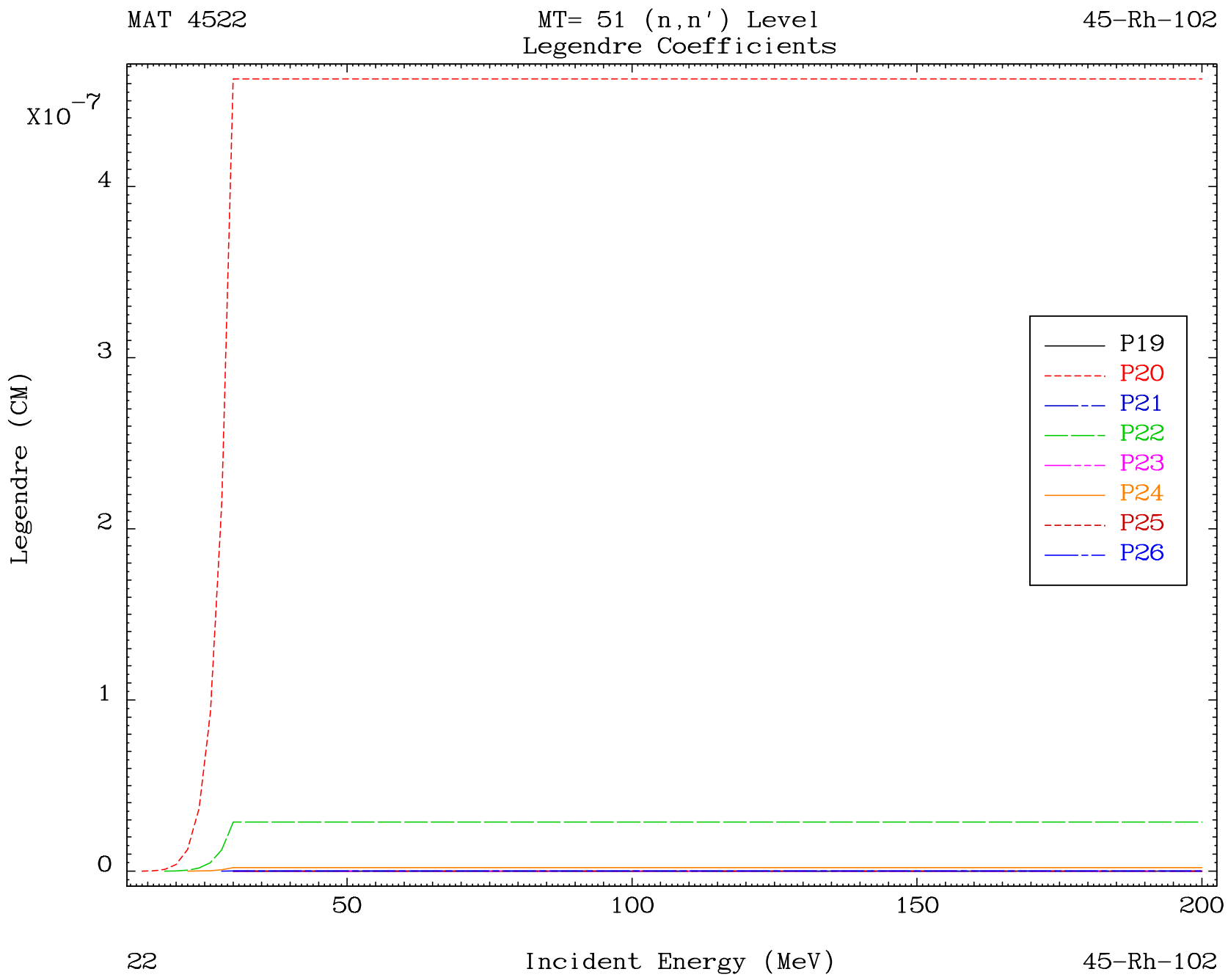

MAT 4522
Elastic
Legendre Coefficients
45-Rh-102
P10
P11
P12
P13
P14
P15
P16
P17
P18
Legendre (CM)
0.00
0.05
0.10
0.15
0.20
0.25
5
10
15
20
25
30
17
Incident Energy (MeV)
45-Rh-102

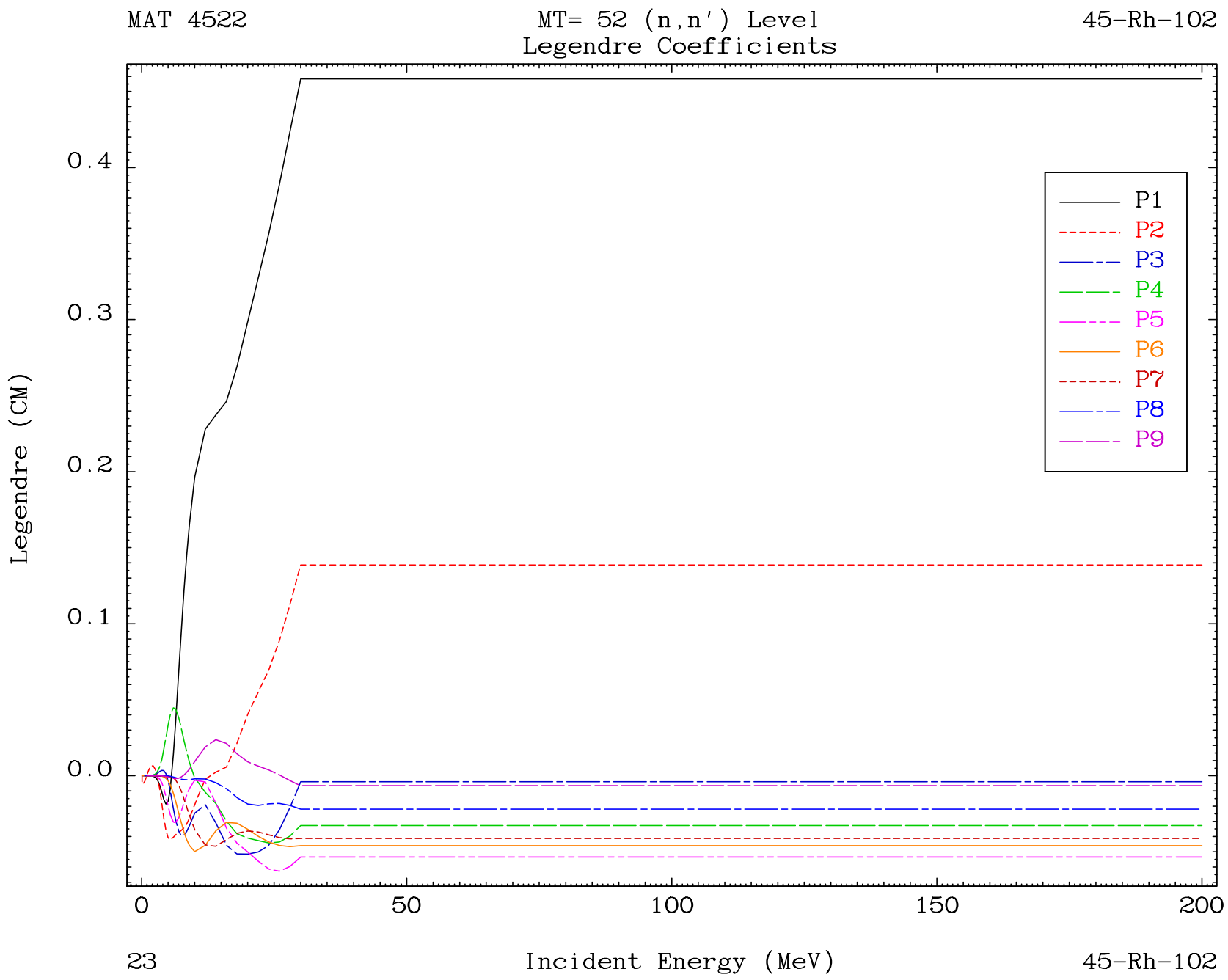

MAT 4522
Elastic
Legendre Coefficients
45-Rh-102
P19
P20
P21
P22
P23
P24
P25
P26
P27
0.000
0.000
0.000
0.000
Legendre (CM)
10
15
20
25
30
18
Incident Energy (MeV)
45-Rh-102

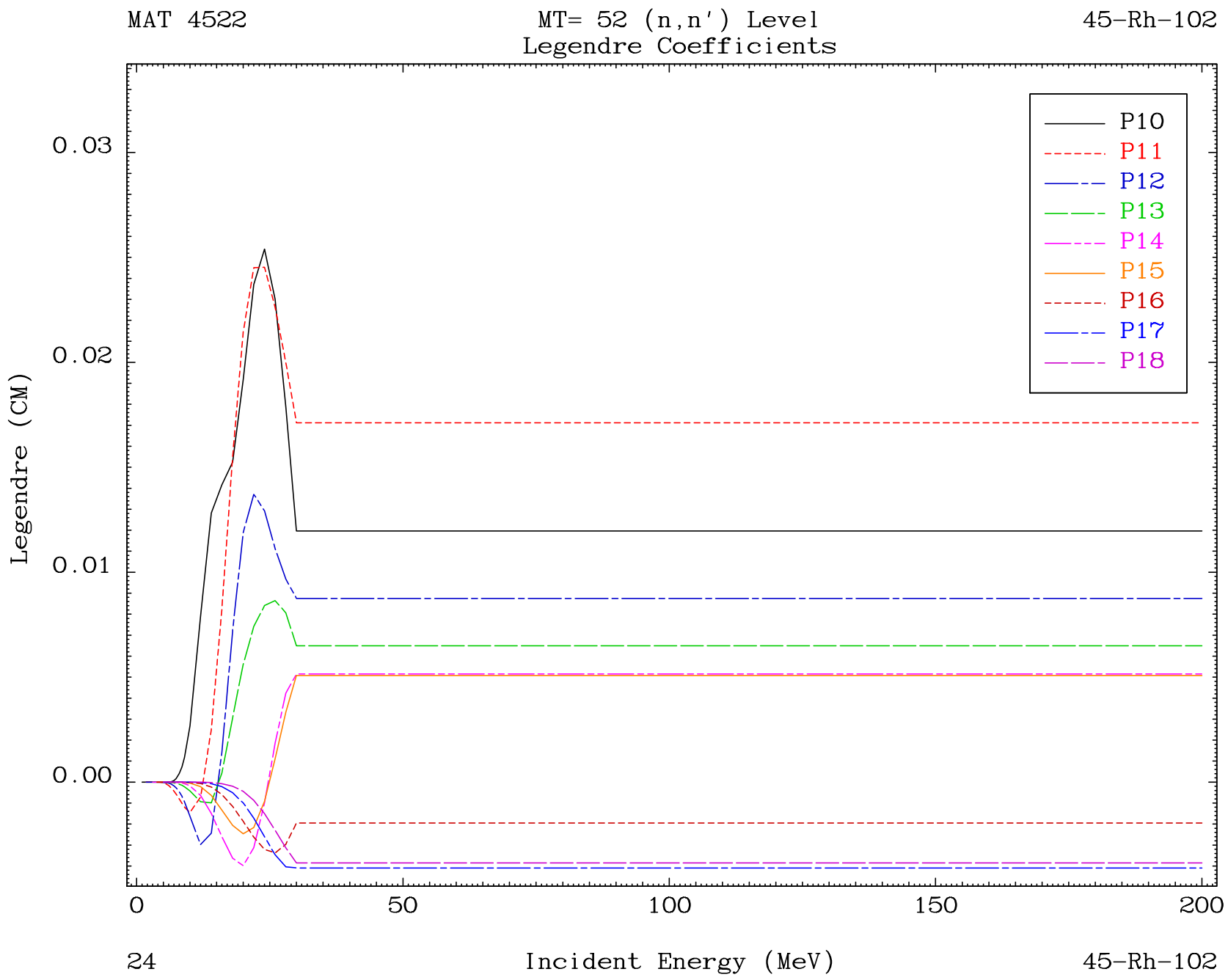

MAT 4522
Elastic
Legendre Coefficients
45-Rh-102
X10^0.7
0.5
0.0
-0.5
-1.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
15
20
25
30
19
Incident Energy (MeV)
45-Rh-102

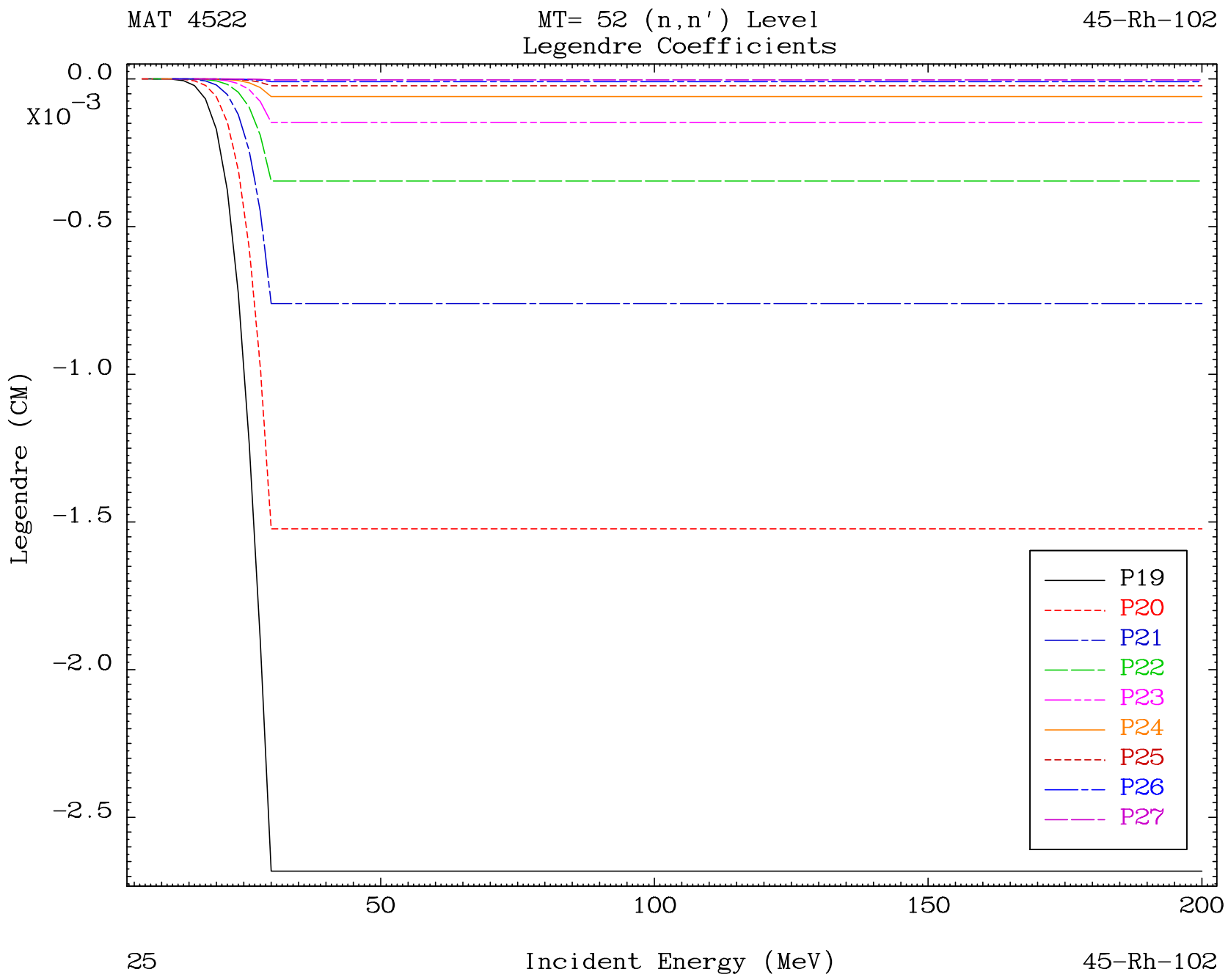

MAT 4522
MT= 51 (n,n') Level
Legendre Coefficients
45-Rh-102
0.12
0.08
0.04
0.00
Legendre (CM)
0
50
100
150
200
20
Incident Energy (MeV)
45-Rh-102
P1
P2
P3
P4
P5
P6
P7
P8
P9

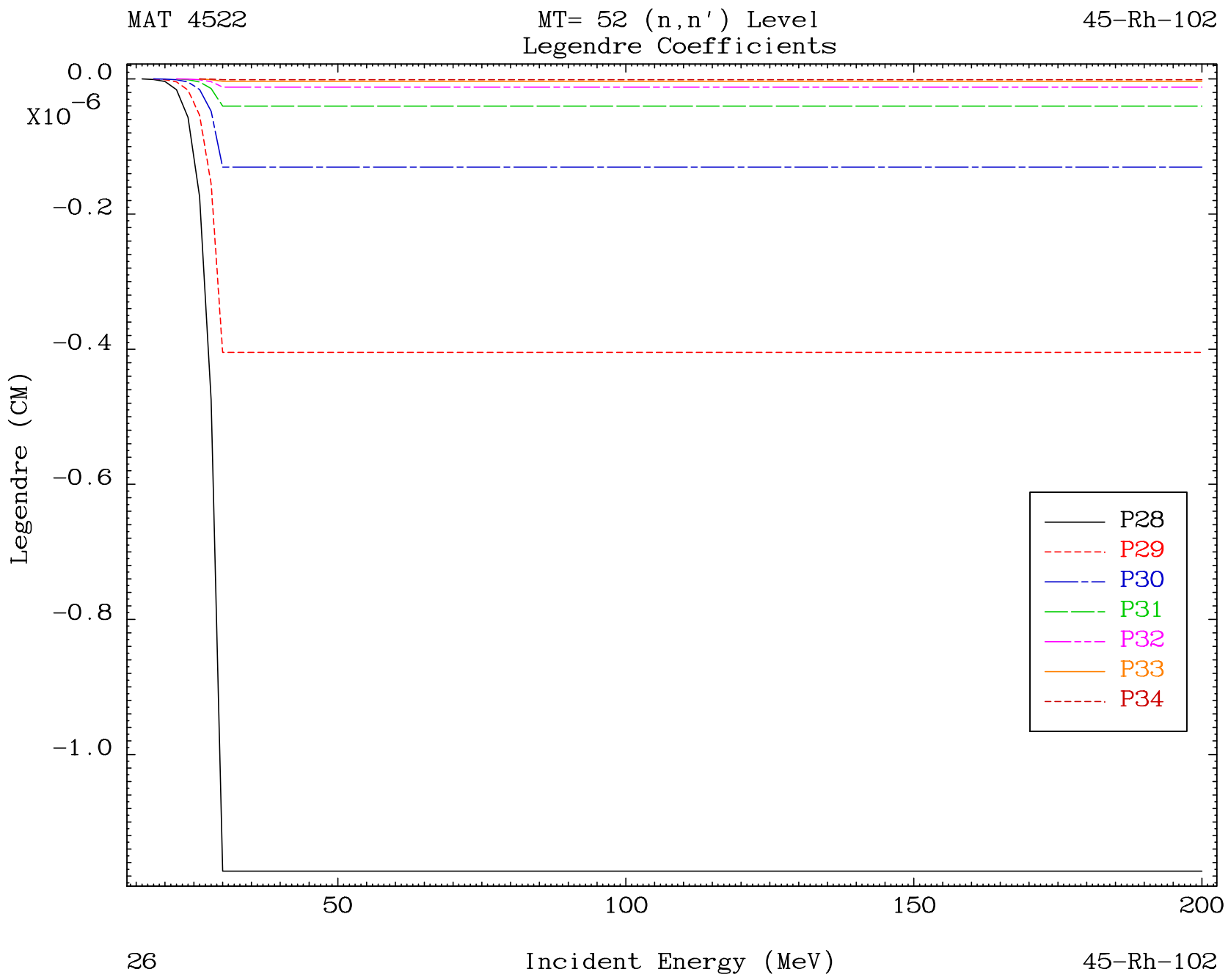

MAT 4522
MT= 51 (n,n') Level
Legendre Coefficients
45-Rh-102
X10^-3
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
0
50
100
150
200
Incident Energy (MeV)
21
45-Rh-102
P10
P11
P12
P13
P14
P15
P16
P17
P18

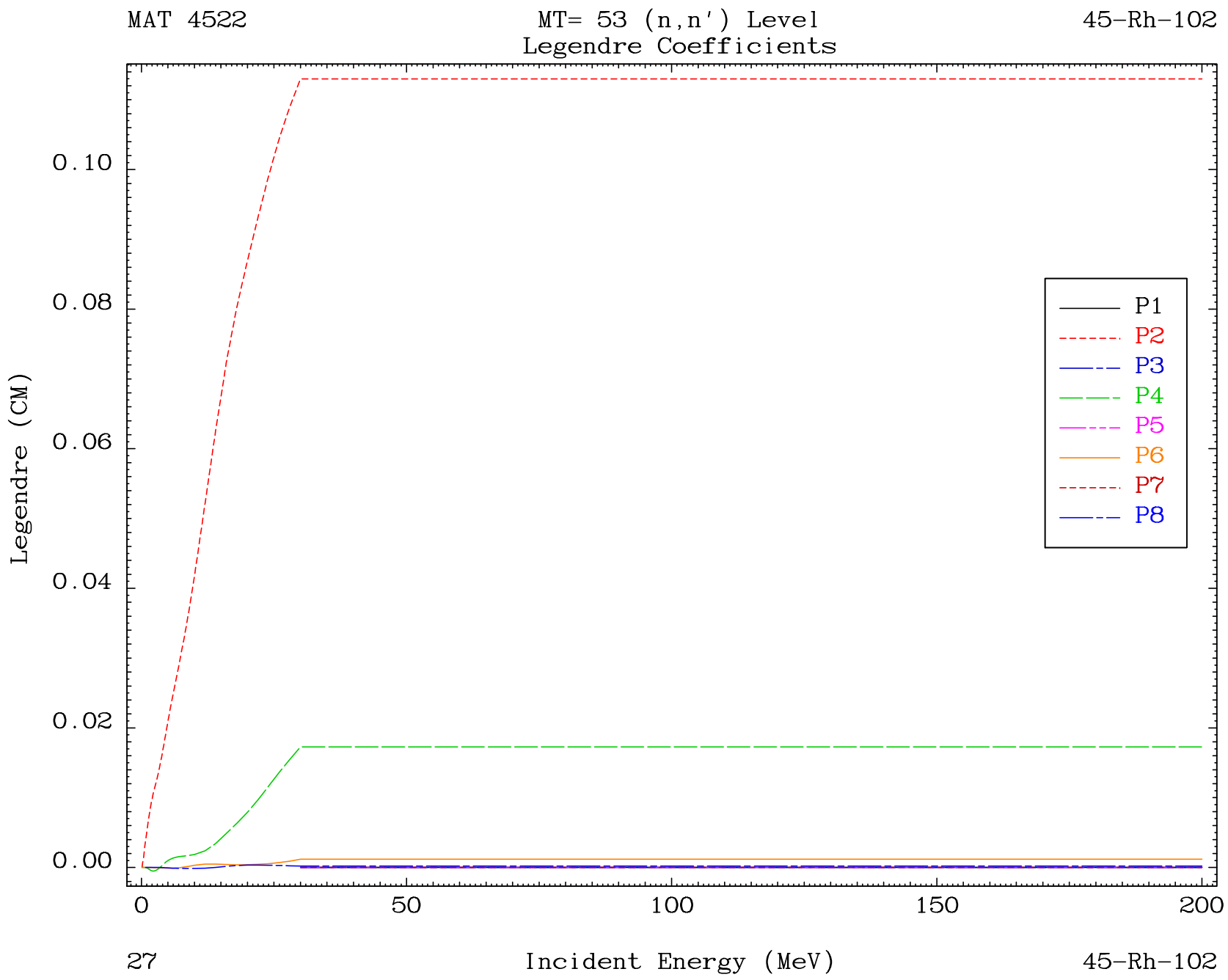

MAT 4522
MT= 51 (n,n') Level
Legendre Coefficients
45-Rh-102
X10^-7
4
3
2
1
0
Legendre (CM)
50
100
150
200
22
Incident Energy (MeV)
45-Rh-102
P19
P20
P21
P22
P23
P24
P25
P26

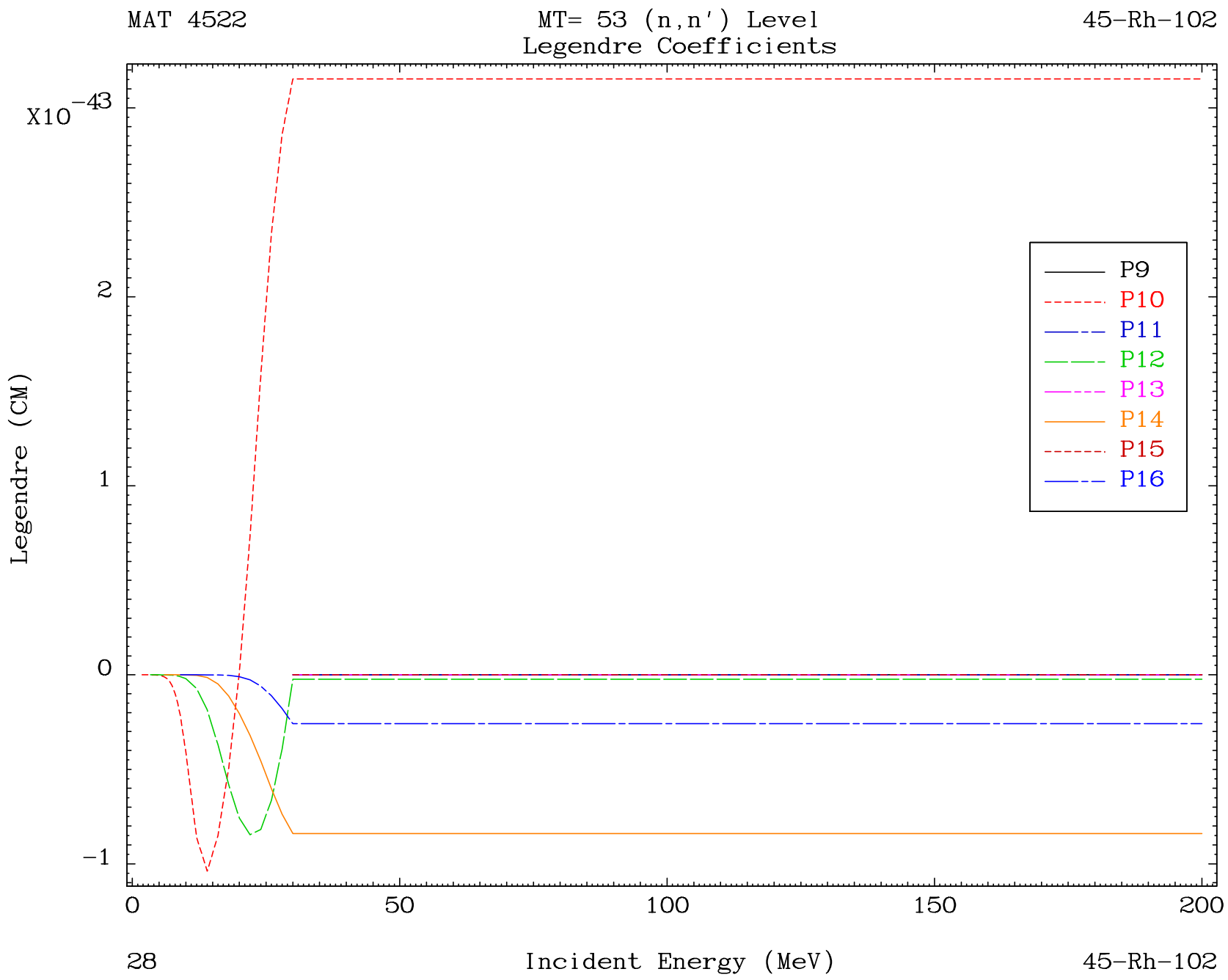

MAT 4522
MT= 52 (n,n') Level
Legendre Coefficients
45-Rh-102
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
23
Incident Energy (MeV)
45-Rh-102

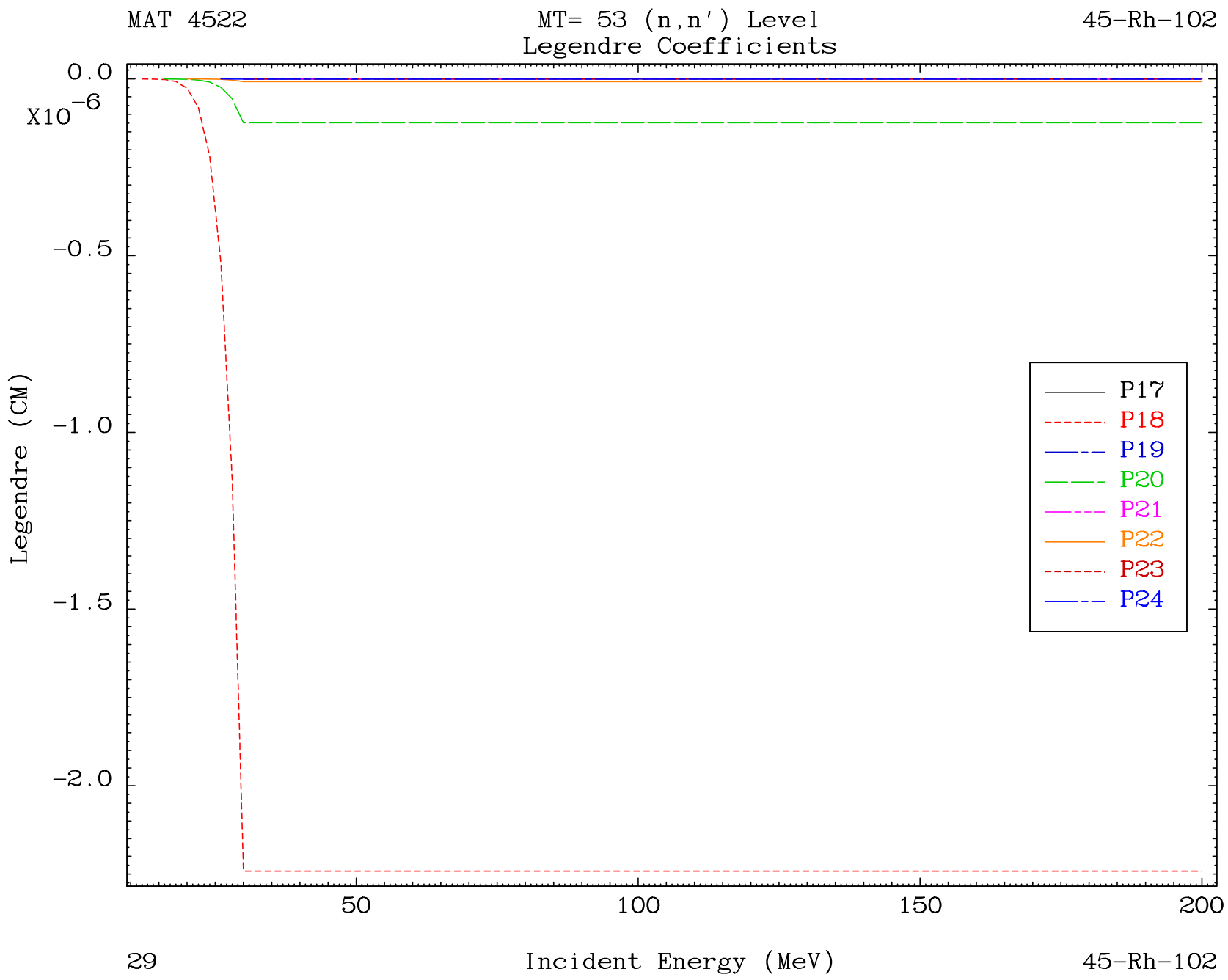

MAT 4522
MT= 52 (n,n') Level
Legendre Coefficients
45-Rh-102
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.03
0.02
0.01
0.00
Legendre (CM)
0
50
100
150
200
24
Incident Energy (MeV)
45-Rh-102

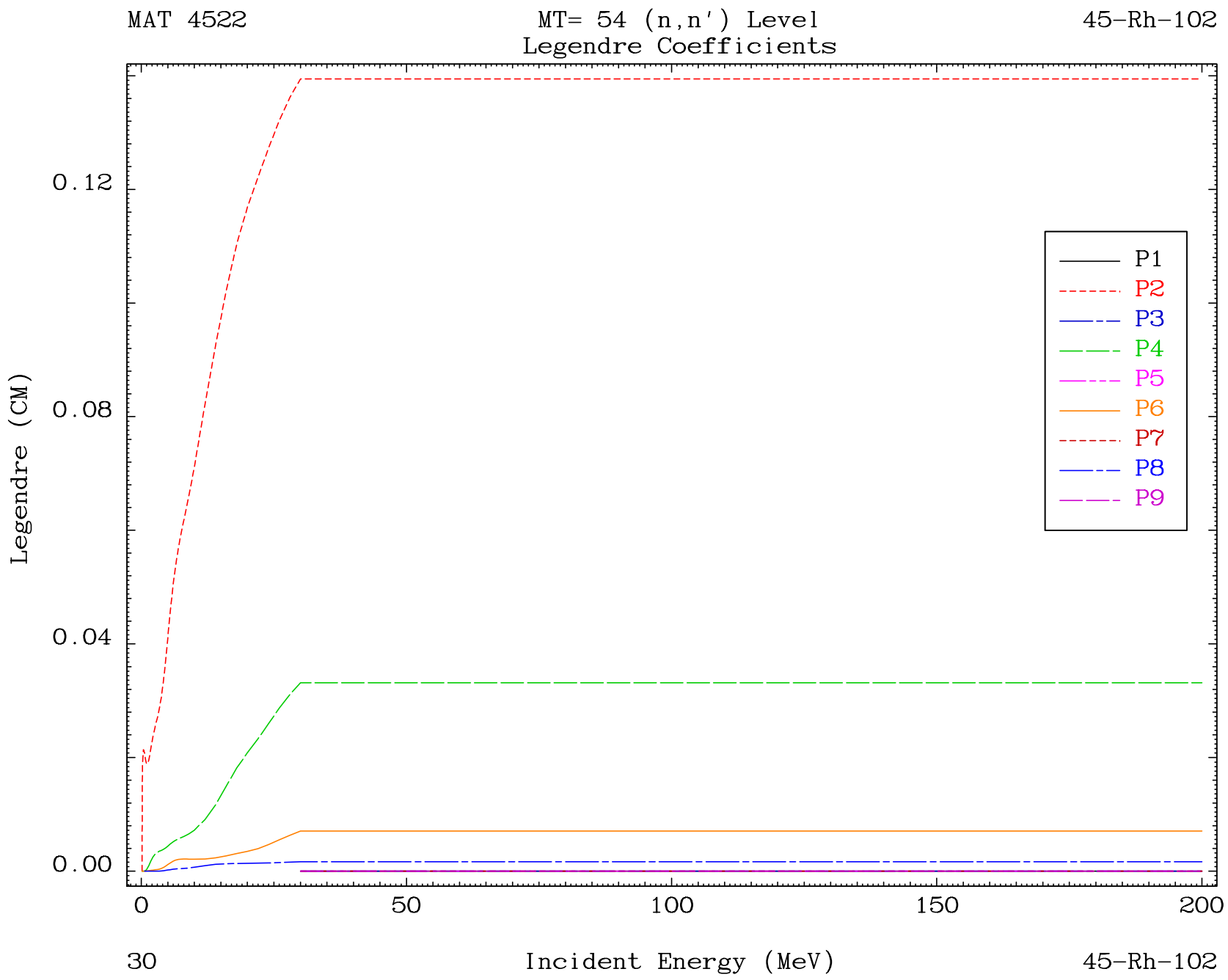

MAT 4522
MT= 52 (n,n') Level
Legendre Coefficients
45-Rh-102
0.0
X10^-3
-0.5
-1.0
-1.5
-2.0
-2.5
Legendre (CM)
50
100
150
200
25
Incident Energy (MeV)
45-Rh-102
P19
P20
P21
P22
P23
P24
P25
P26
P27

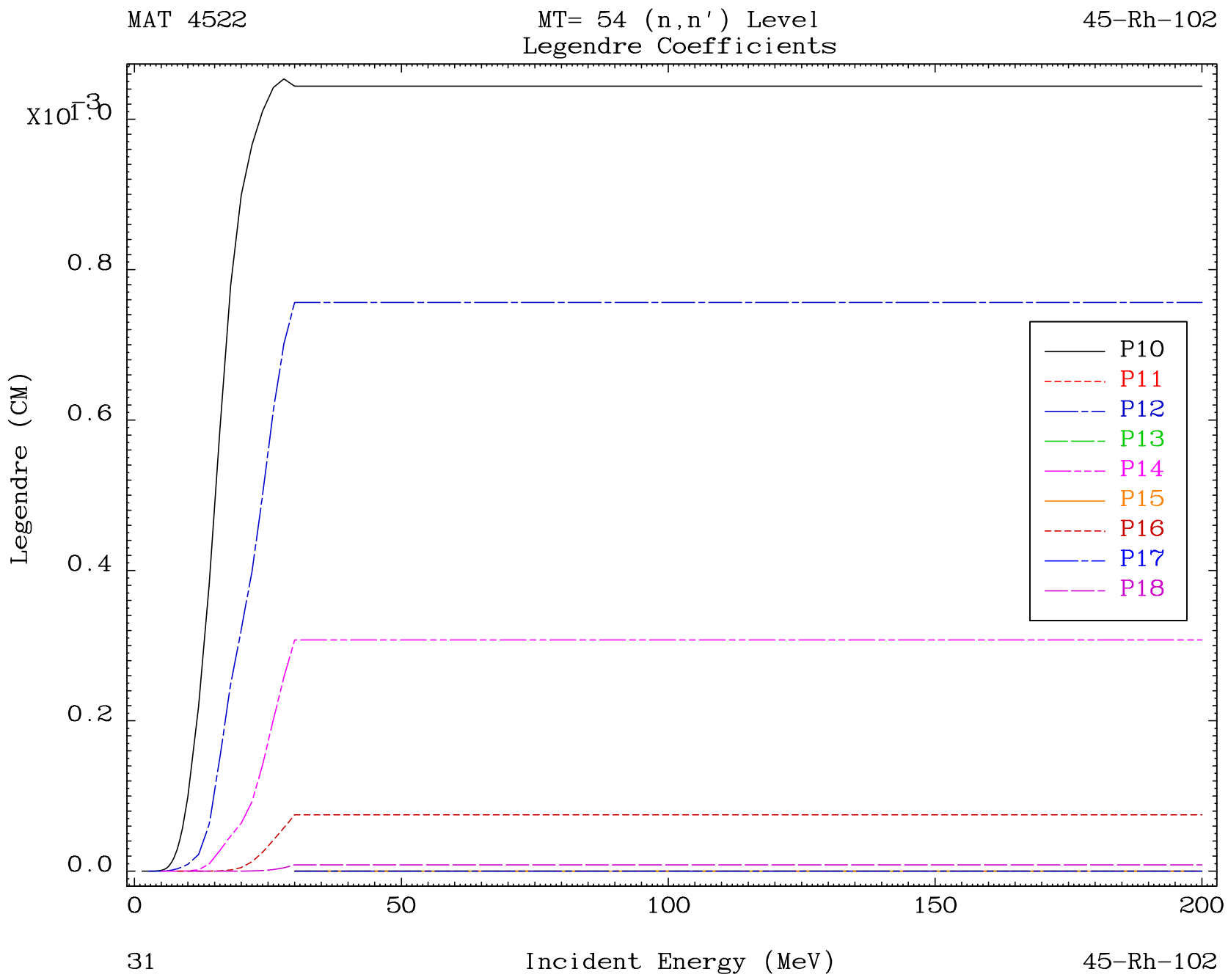

MAT 4522
MT= 52 (n,n') Level
Legendre Coefficients
45-Rh-102
0.0
X10^-6
-0.2
-0.4
-0.6
-0.8
-1.0
Legendre (CM)
50
100
150
200
Incident Energy (MeV)
26
45-Rh-102
P28
P29
P30
P31
P32
P33
P34

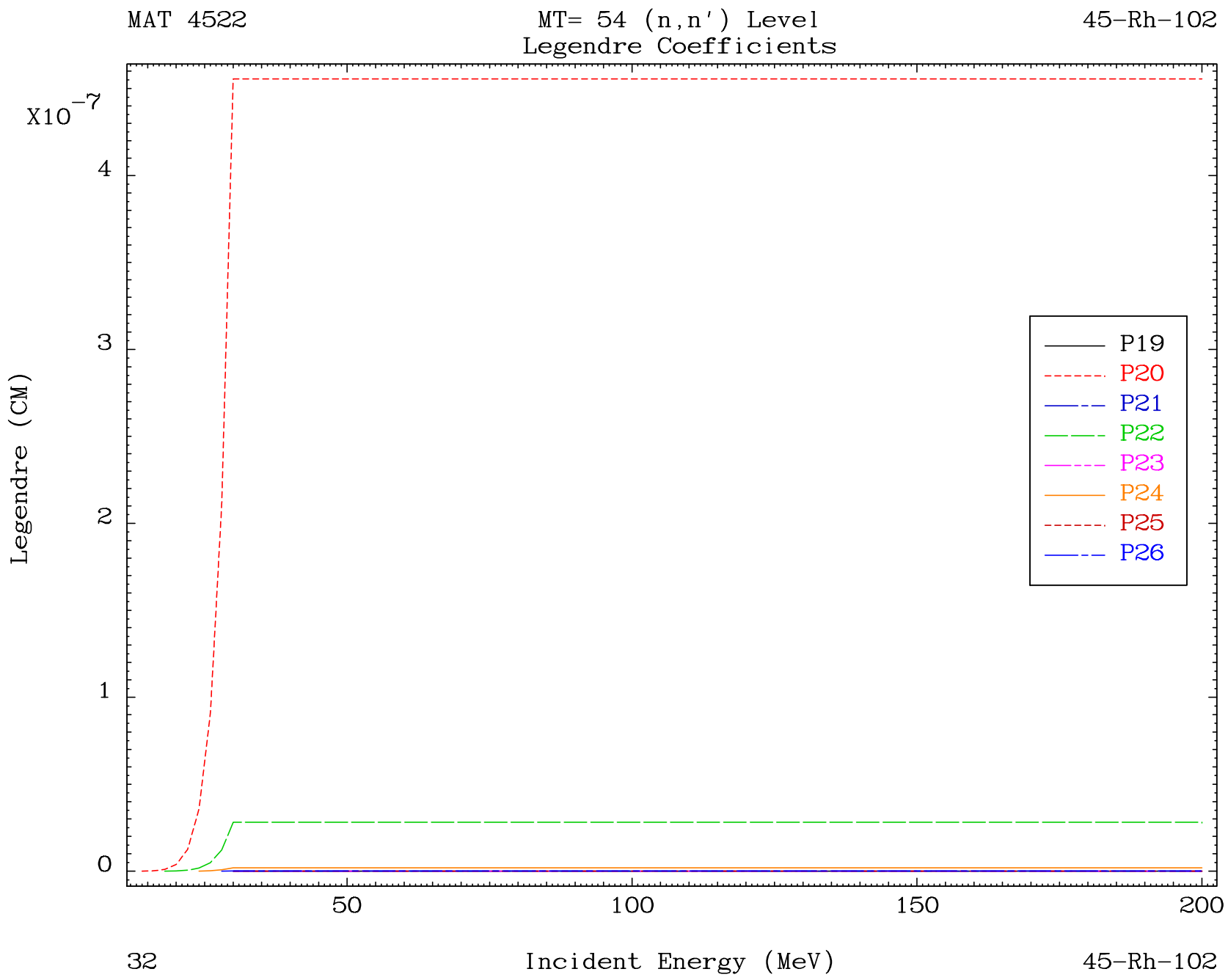

MAT 4522
MT= 53 (n,n') Level
Legendre Coefficients
45-Rh-102
0.10
0.08
0.06
0.04
0.02
0.00
Legendre (CM)
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
27
Incident Energy (MeV)
45-Rh-102

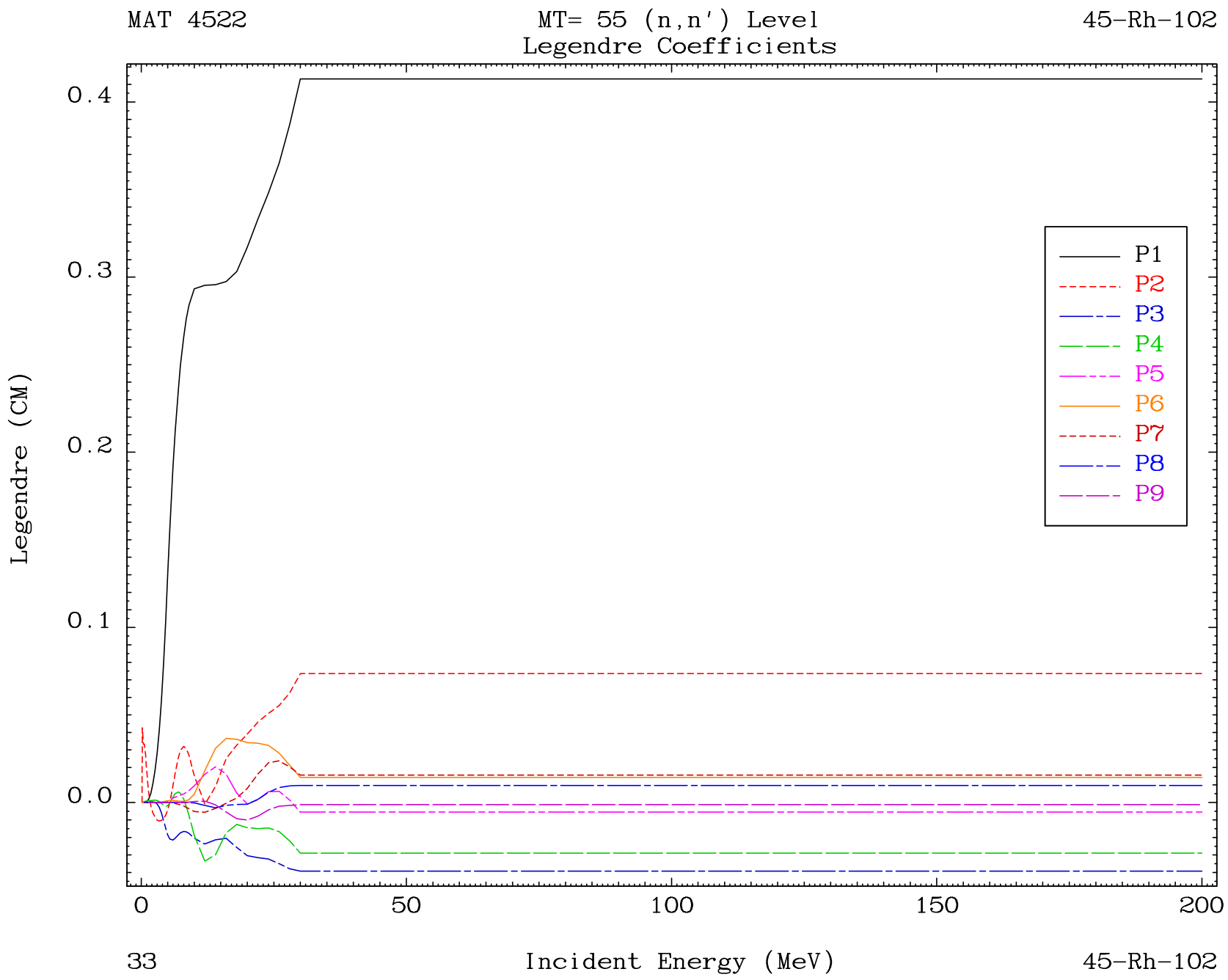

MAT 4522
MT= 53 (n,n') Level
Legendre Coefficients
45-Rh-102
X10^-43
2
1
0
-1
Legendre (CM)
0
50
100
150
200
Incident Energy (MeV)
28
45-Rh-102
P9
P10
P11
P12
P13
P14
P15
P16

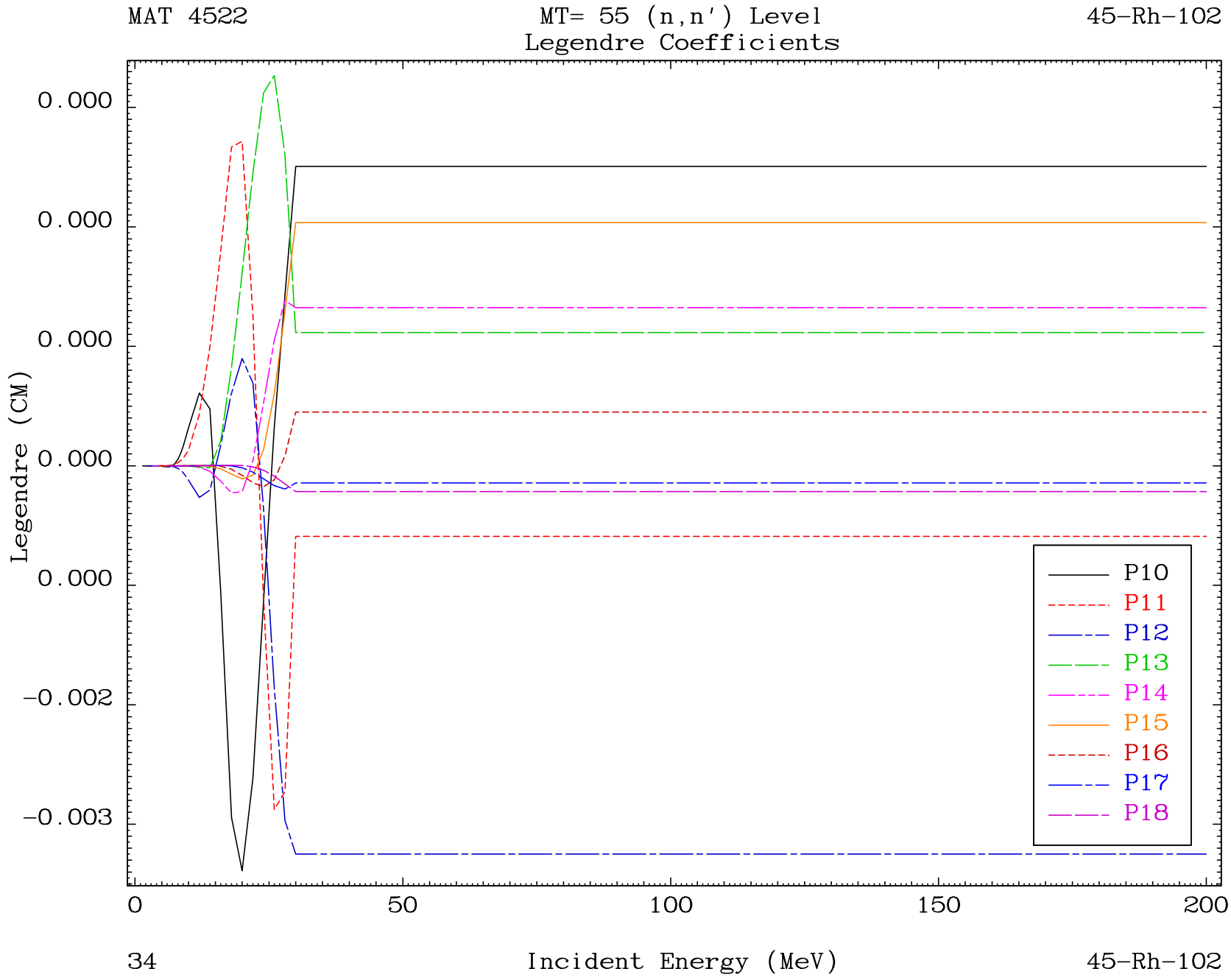

MAT 4522
MT= 53 (n,n') Level
Legendre Coefficients
45-Rh-102
0.0
X10^-6
-0.5
-1.0
-1.5
-2.0
Legendre (CM)
50
100
150
200
29
Incident Energy (MeV)
45-Rh-102
P17
P18
P19
P20
P21
P22
P23
P24


MAT 4522
MT= 54 (n,n') Level
Legendre Coefficients
45-Rh-102
0.12
0.08
0.04
0.00
Legendre (CM)
0
50
100
150
200
30
Incident Energy (MeV)
45-Rh-102
P1
P2
P3
P4
P5
P6
P7
P8
P9

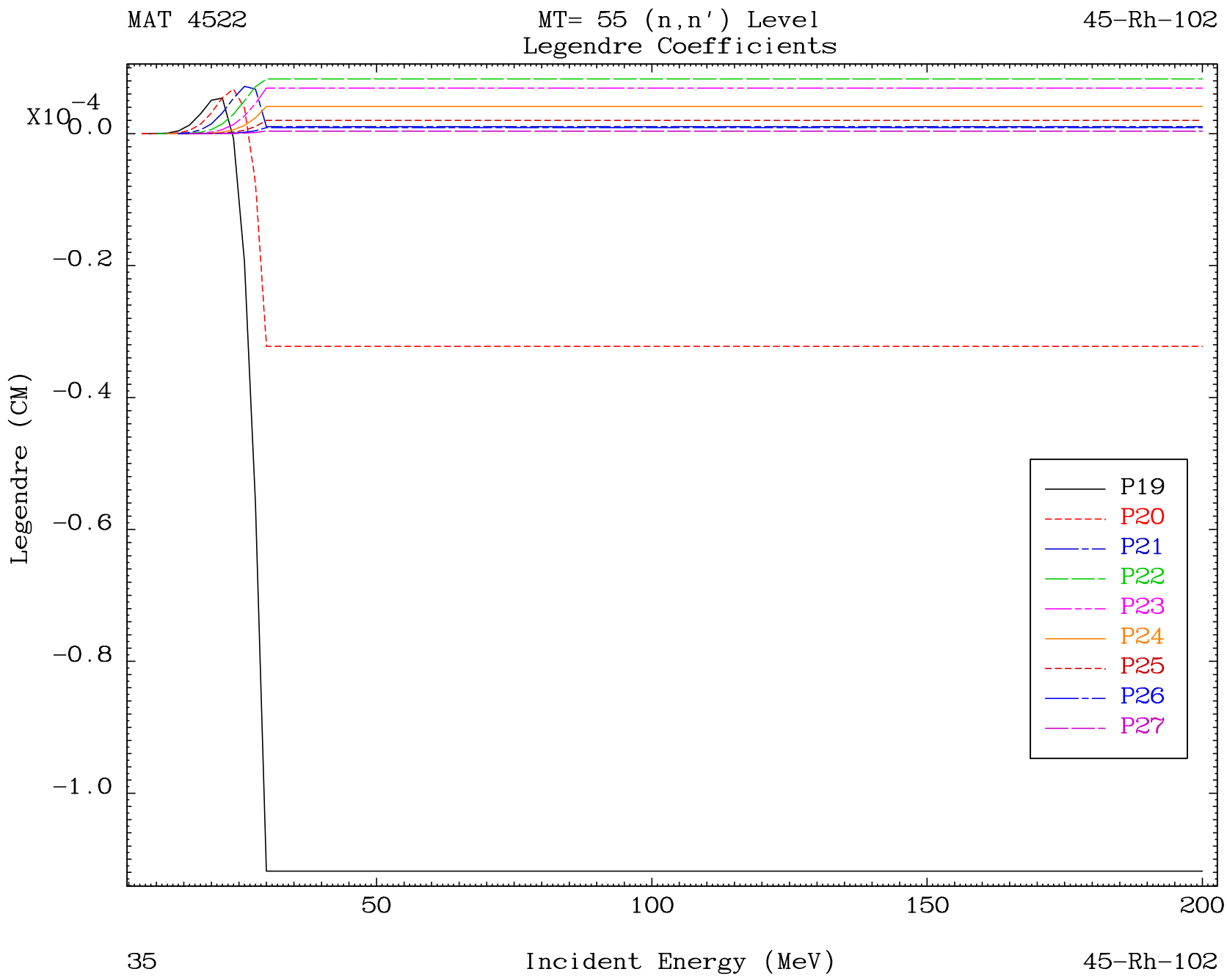

MAT 4522
MT= 54 (n,n') Level
Legendre Coefficients
45-Rh-102
X10^-3
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
0
50
100
150
200
Incident Energy (MeV)
P10
P11
P12
P13
P14
P15
P16
P17
P18
31
45-Rh-102

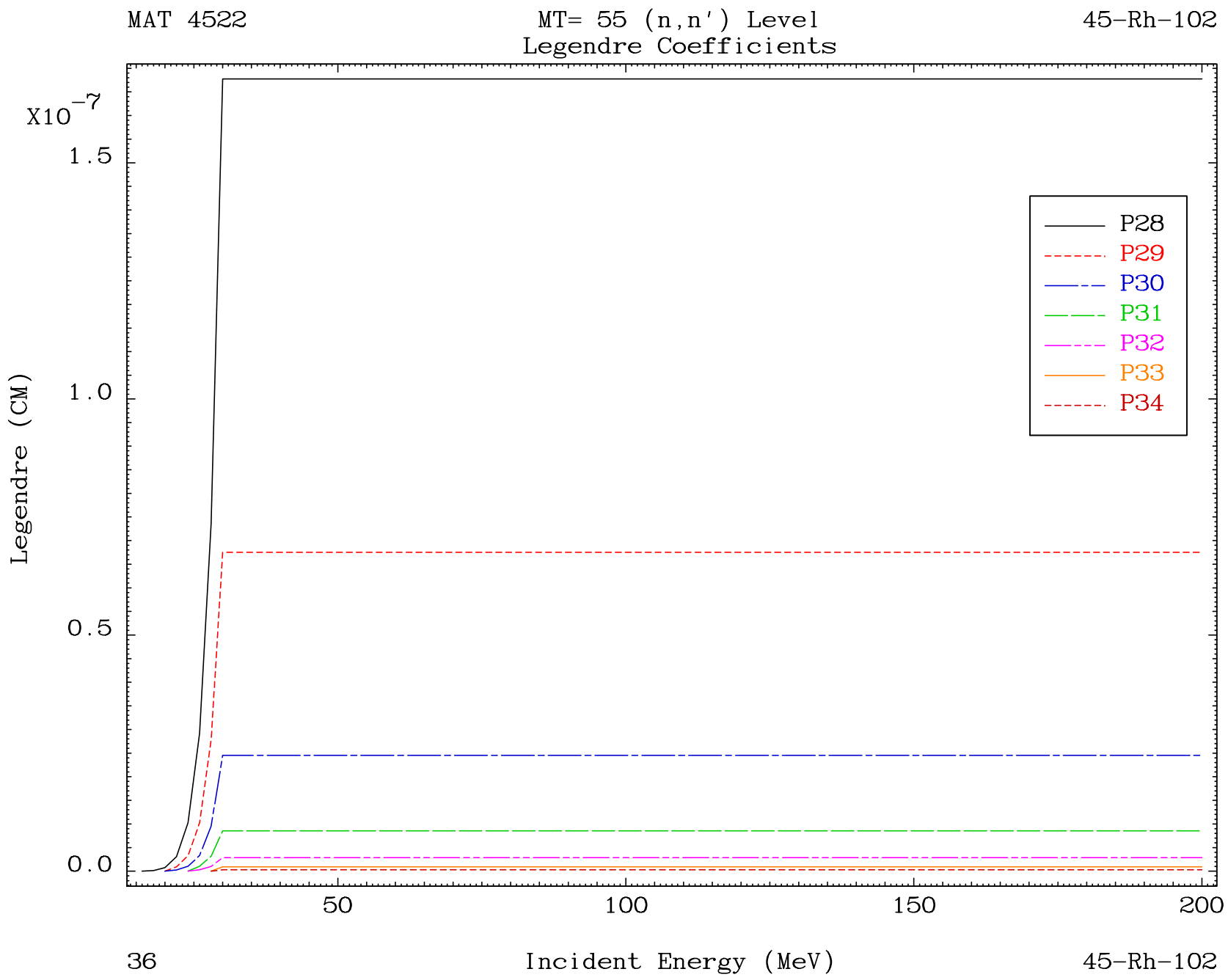

MAT 4522
MT= 54 (n,n') Level
Legendre Coefficients
45-Rh-102
X10^-7
4
3
2
1
0
Legendre (CM)
50
100
150
200
32
Incident Energy (MeV)
45-Rh-102
P19
P20
P21
P22
P23
P24
P25
P26

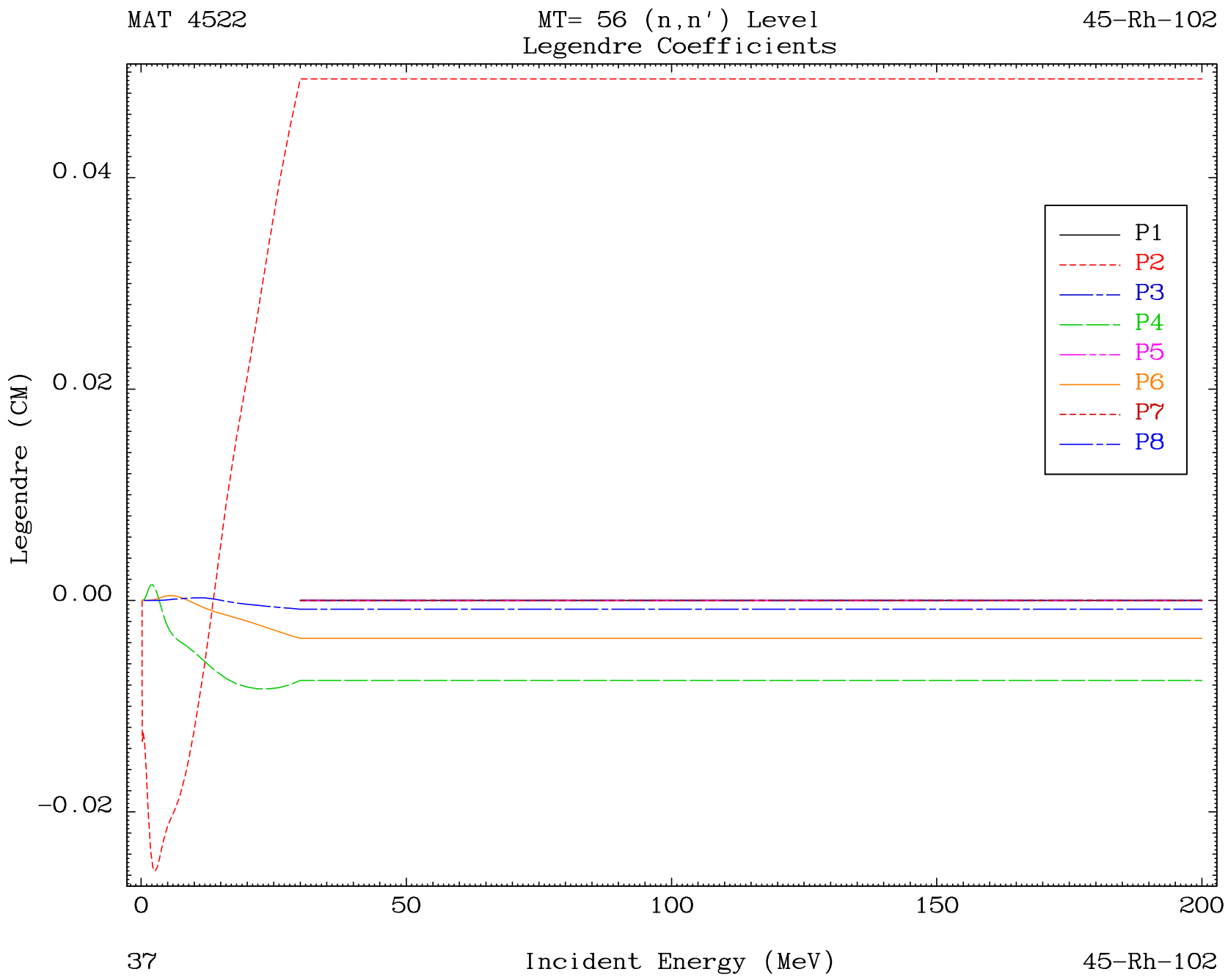

MAT 4522
MT= 55 (n,n') Level
Legendre Coefficients
45-Rh-102
0.4
0.3
0.2
0.1
0.0
Legendre (CM)
0
50
100
150
200
Incident Energy (MeV)
P1
P2
P3
P4
P5
P6
P7
P8
P9
33
45-Rh-102

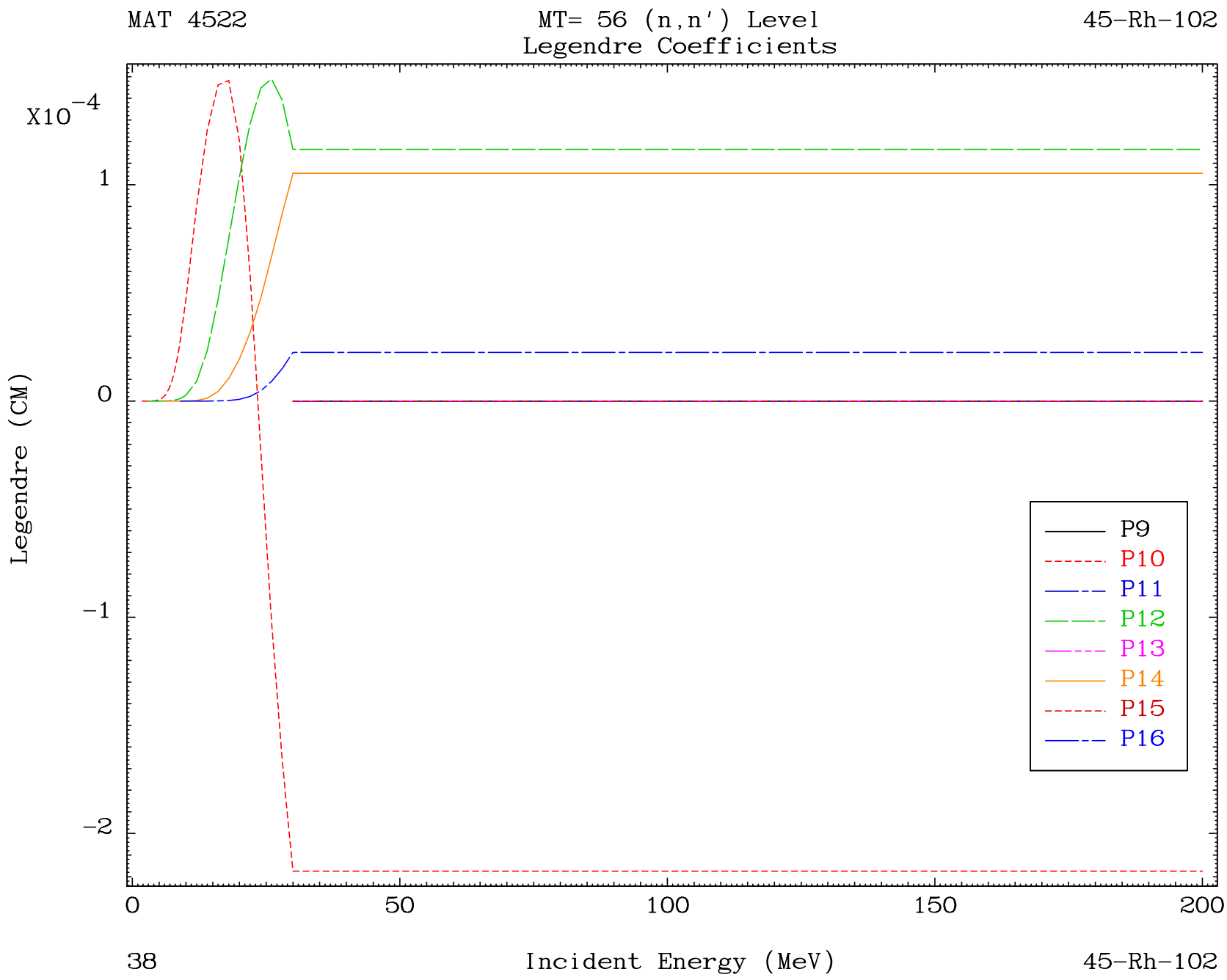

MAT 4522
MT= 55 (n,n') Level
Legendre Coefficients
45-Rh-102
0.000
0.000
0.000
0.000
0.000
-0.002
-0.003
Legendre (CM)
0
50
100
150
200
Incident Energy (MeV)
P10
P11
P12
P13
P14
P15
P16
P17
P18

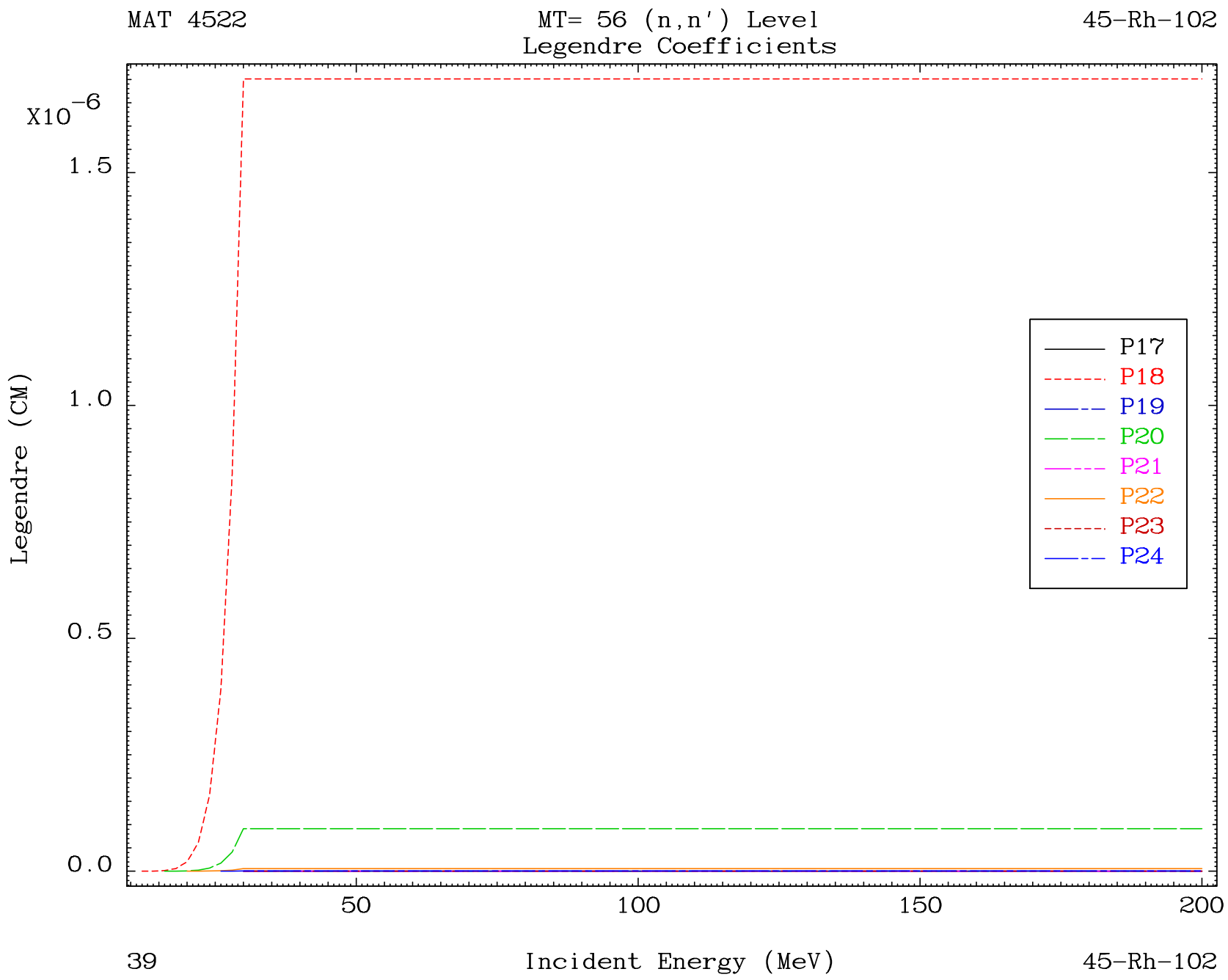
45-Rh-102

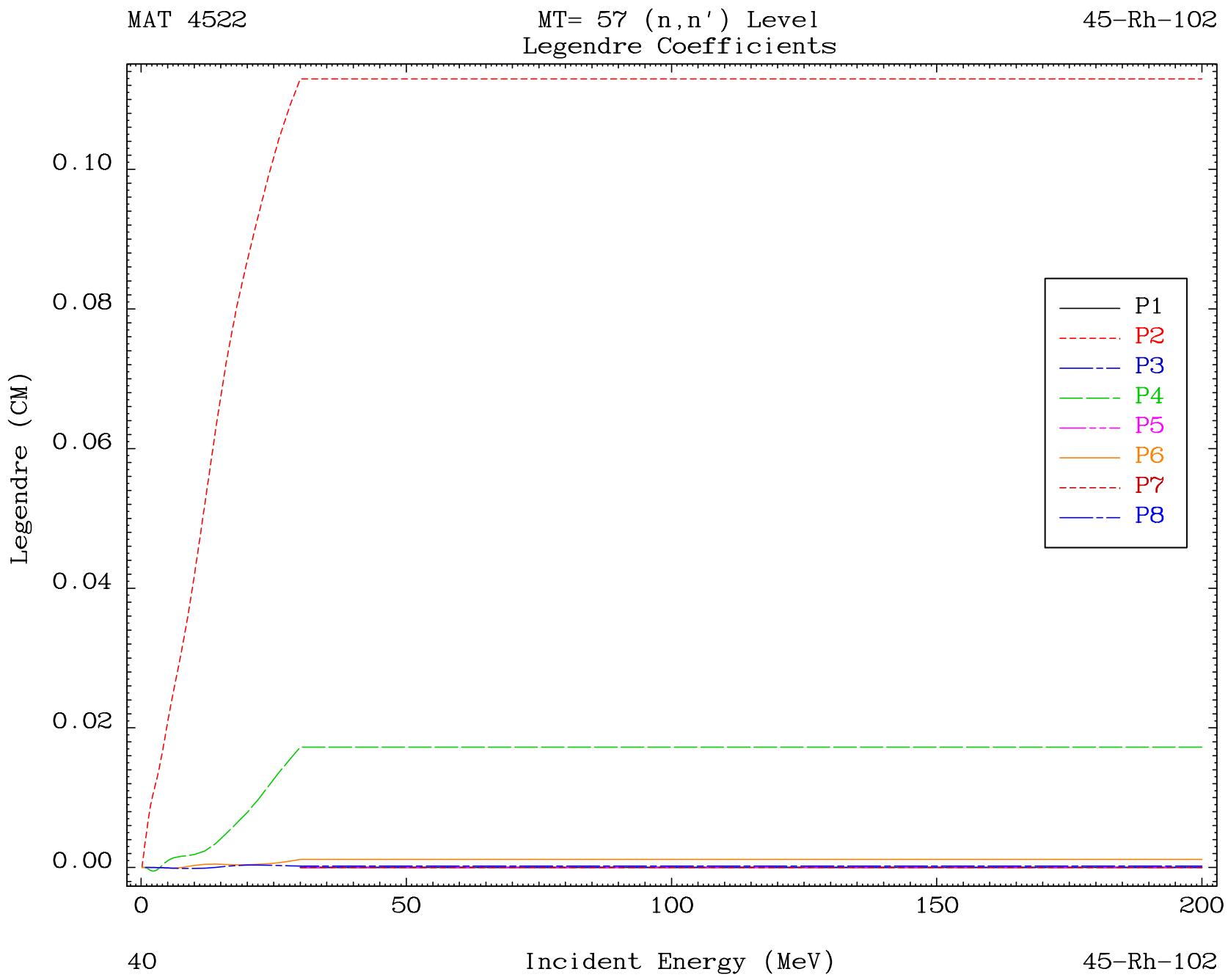

MAT 4522
MT= 55 (n,n') Level
Legendre Coefficients
45-Rh-102
X10^-4
0.0
-0.2
-0.4
-0.6
-0.8
-1.0
Legendre (CM)
50
100
150
200
35
Incident Energy (MeV)
45-Rh-102
P19
P20
P21
P22
P23
P24
P25
P26
P27

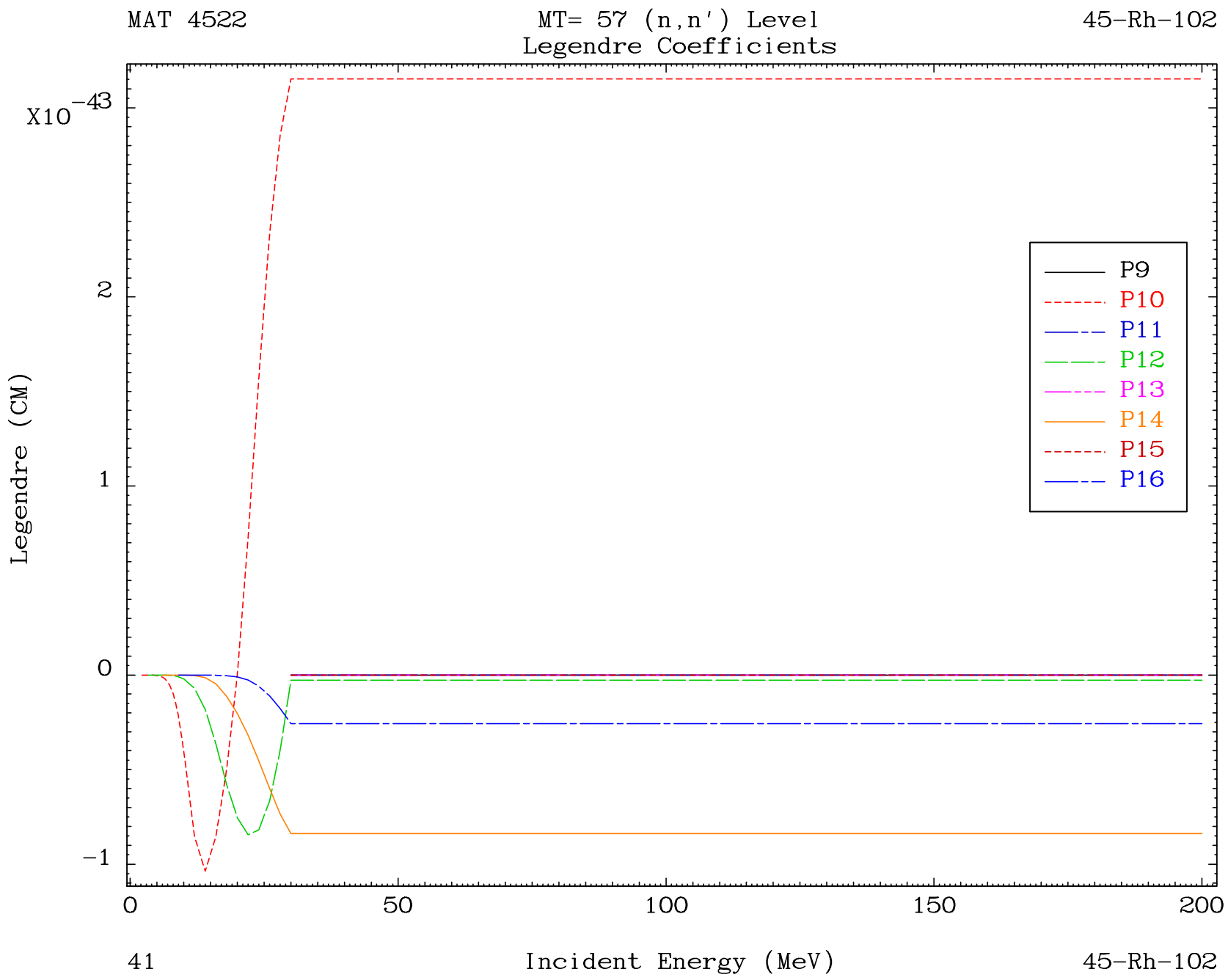

MAT 4522
MT= 55 (n,n') Level
Legendre Coefficients
45-Rh-102
X10^-7
1.5
1.0
0.5
0.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
36
Incident Energy (MeV)
45-Rh-102

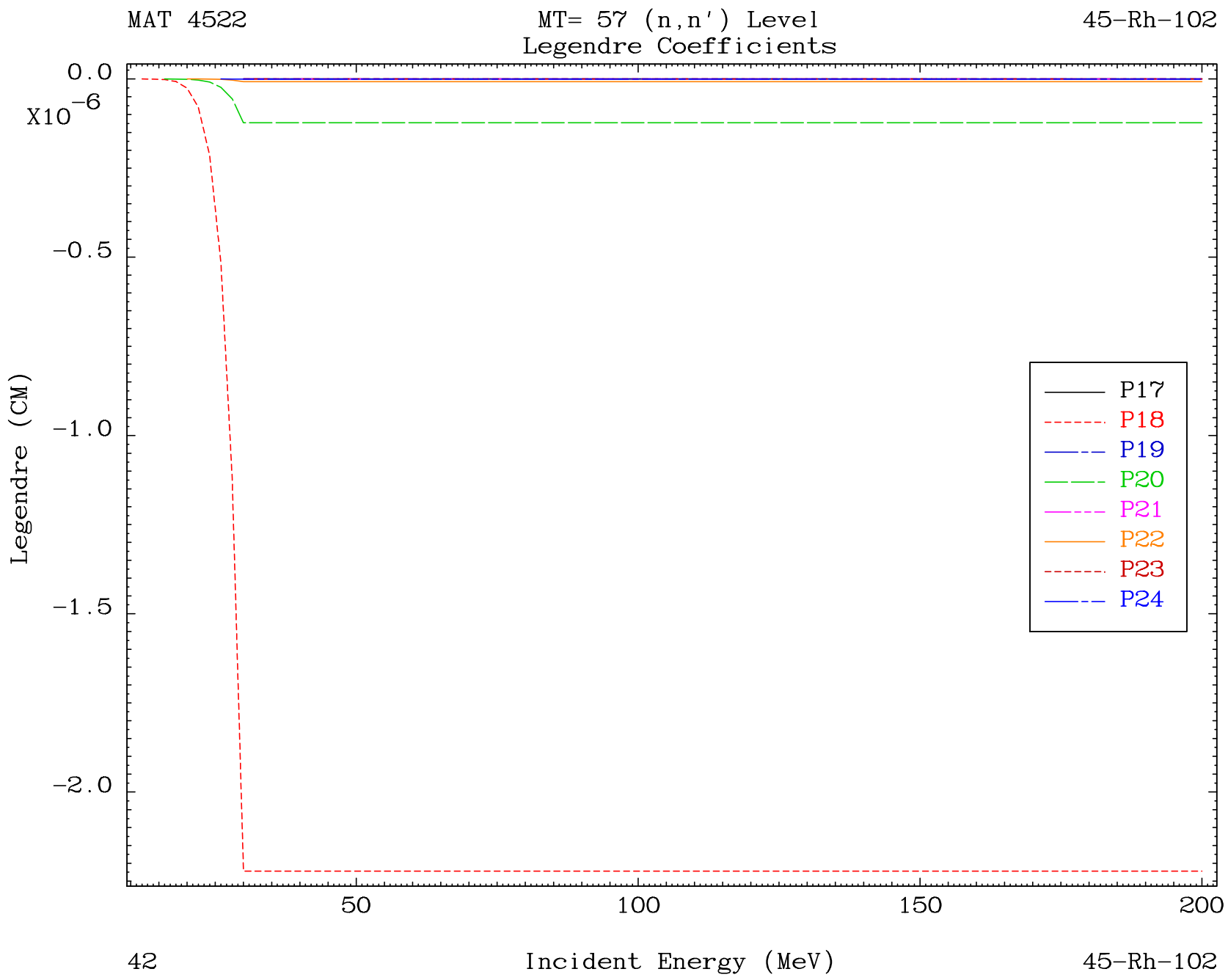

MAT 4522
MT= 56 (n,n') Level
Legendre Coefficients
45-Rh-102
0.04
0.02
0.00
-0.02
Legendre (CM)
0
50
100
150
200
Incident Energy (MeV)
P1
P2
P3
P4
P5
P6
P7
P8
37
45-Rh-102

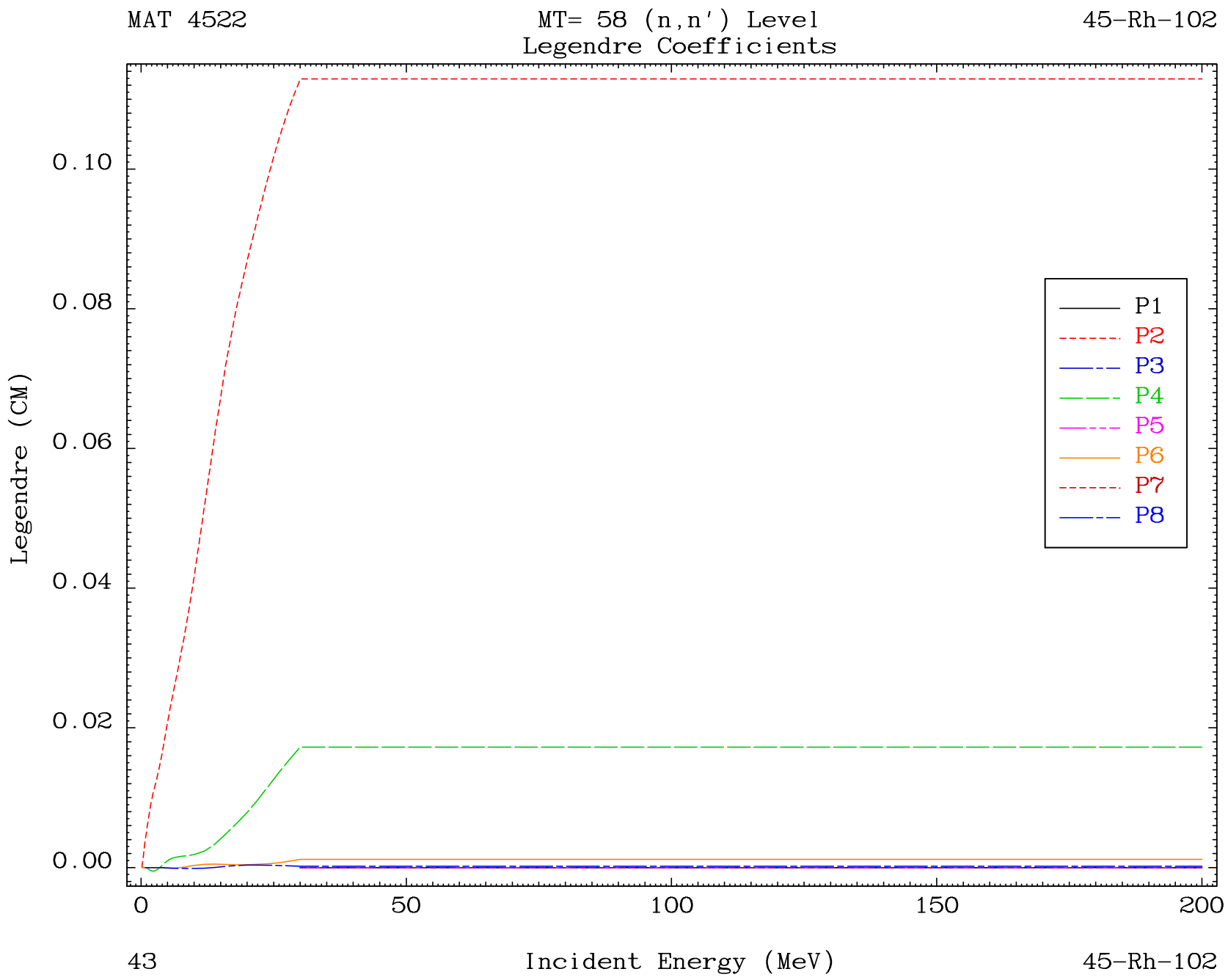

MAT 4522
MT= 56 (n,n') Level
Legendre Coefficients
45-Rh-102
X10^-4
1
0
-1
-2
Legendre (CM)
0
50
100
150
200
Incident Energy (MeV)
P9
P10
P11
P12
P13
P14
P15
P16
38
45-Rh-102

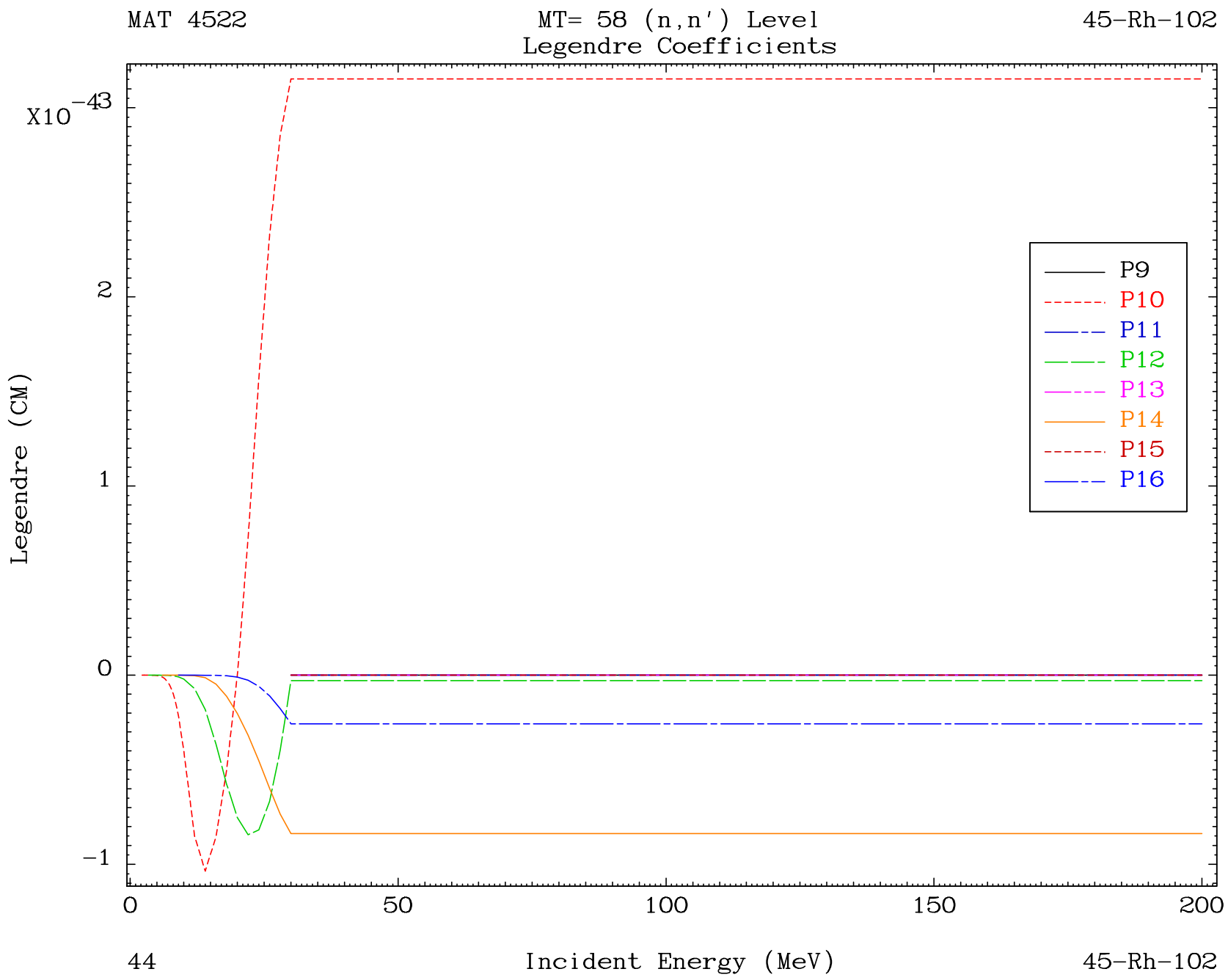

MAT 4522
MT= 56 (n,n') Level
Legendre Coefficients
45-Rh-102
X10^-6
1.5
1.0
0.5
0.0
Legendre (CM)
50
100
150
200
Incident Energy (MeV)
P17
P18
P19
P20
P21
P22
P23
P24
39
45-Rh-102

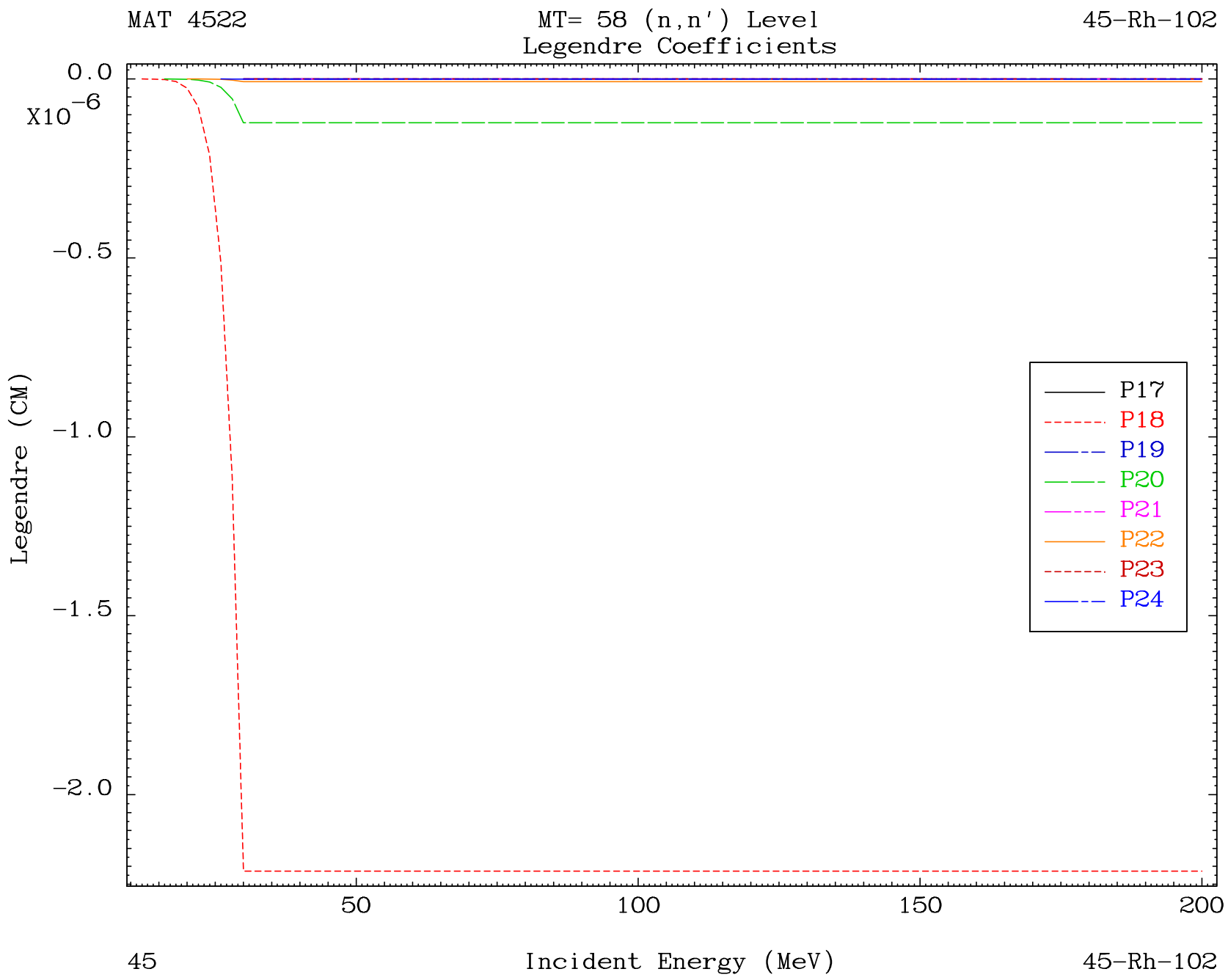

MAT 4522
MT= 57 (n,n') Level
Legendre Coefficients
45-Rh-102
0.10
0.08
0.06
0.04
0.02
0.00
Legendre (CM)
0
50
100
150
200
40
Incident Energy (MeV)
45-Rh-102
P1
P2
P3
P4
P5
P6
P7
P8

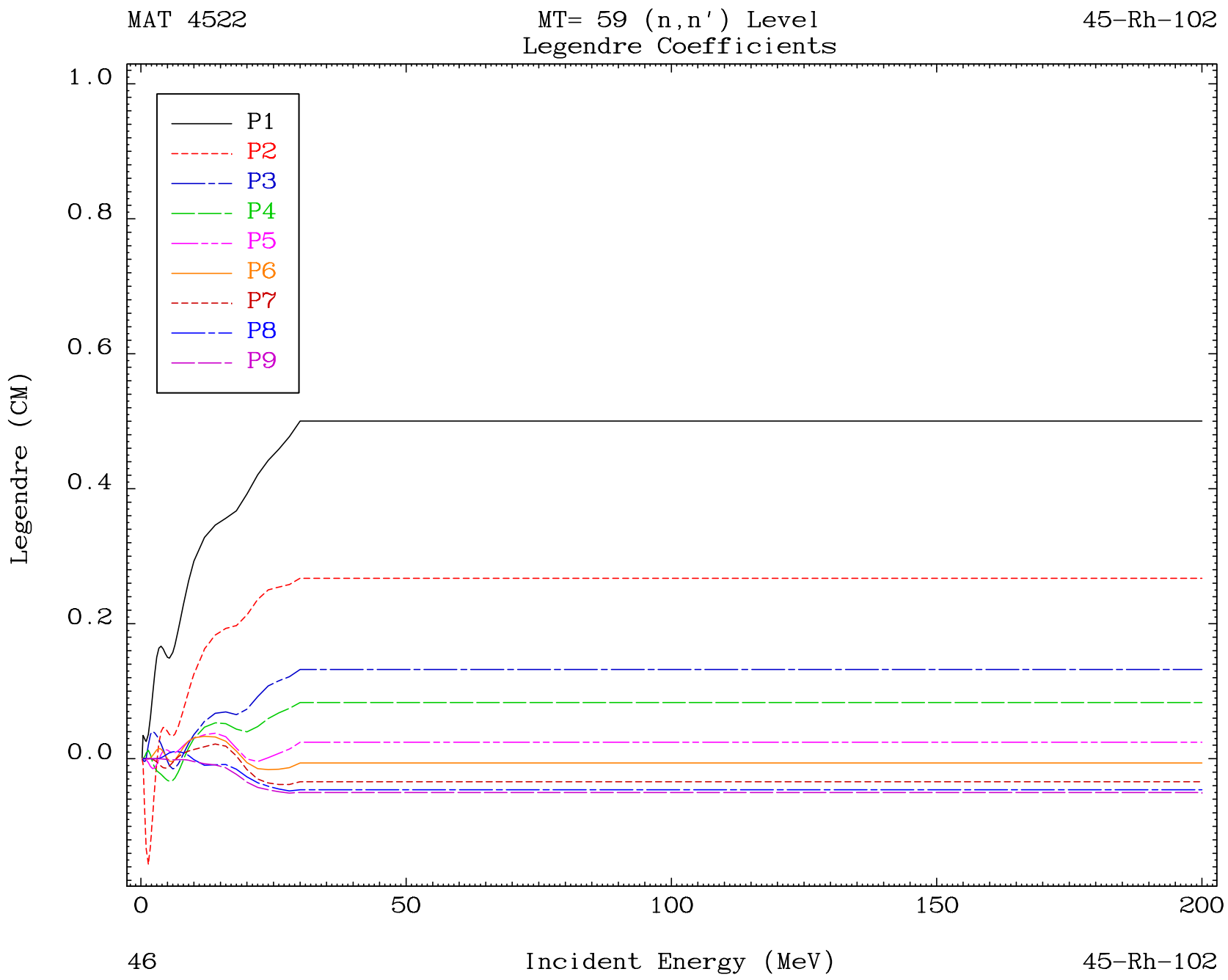

MAT 4522
MT= 57 (n,n') Level
Legendre Coefficients
45-Rh-102
X10^-43
2
1
0
-1
Legendre (CM)
0
50
100
150
200
Incident Energy (MeV)
41
45-Rh-102
P9
P10
P11
P12
P13
P14
P15
P16

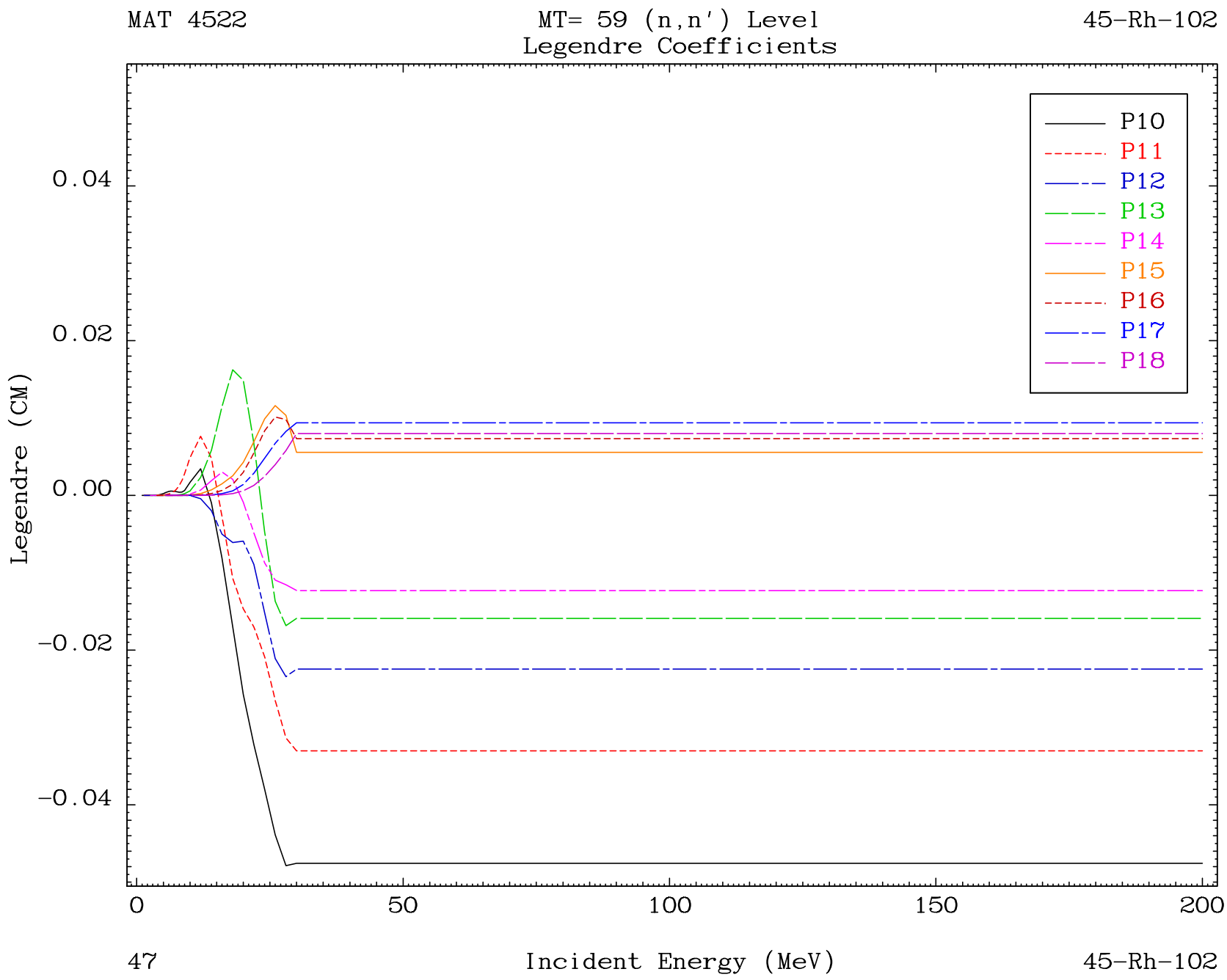

MAT 4522
MT= 57 (n,n') Level
Legendre Coefficients
45-Rh-102
0.0
X10^-6
-0.5
-1.0
-1.5
-2.0
Legendre (CM)
50
100
150
200
42
Incident Energy (MeV)
45-Rh-102
P17
P18
P19
P20
P21
P22
P23
P24

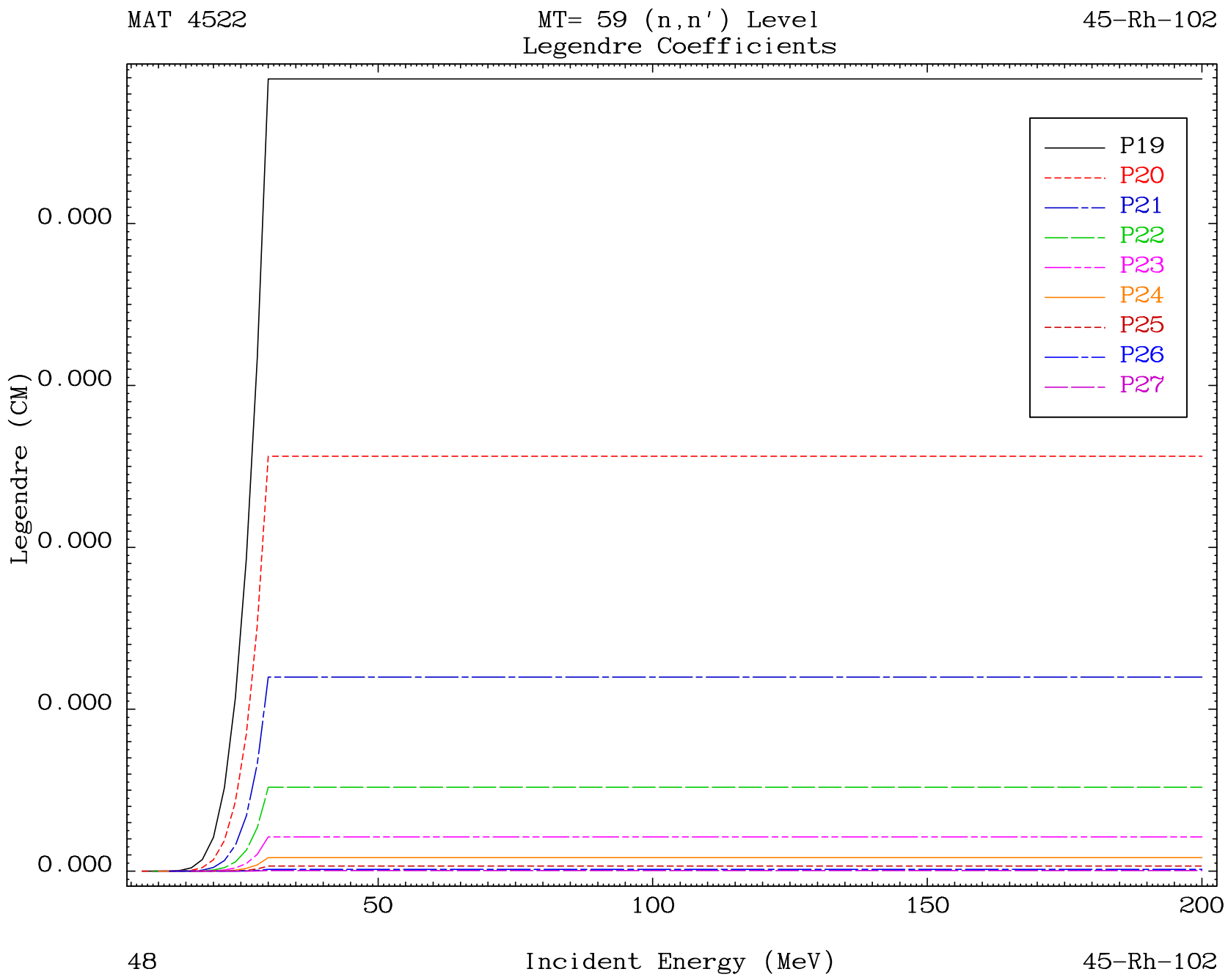

MAT 4522
MT= 58 (n,n') Level
Legendre Coefficients
45-Rh-102
0.10
0.08
0.06
0.04
0.02
0.00
Legendre (CM)
0
50
100
150
200
Incident Energy (MeV)
P1
P2
P3
P4
P5
P6
P7
P8
43
45-Rh-102

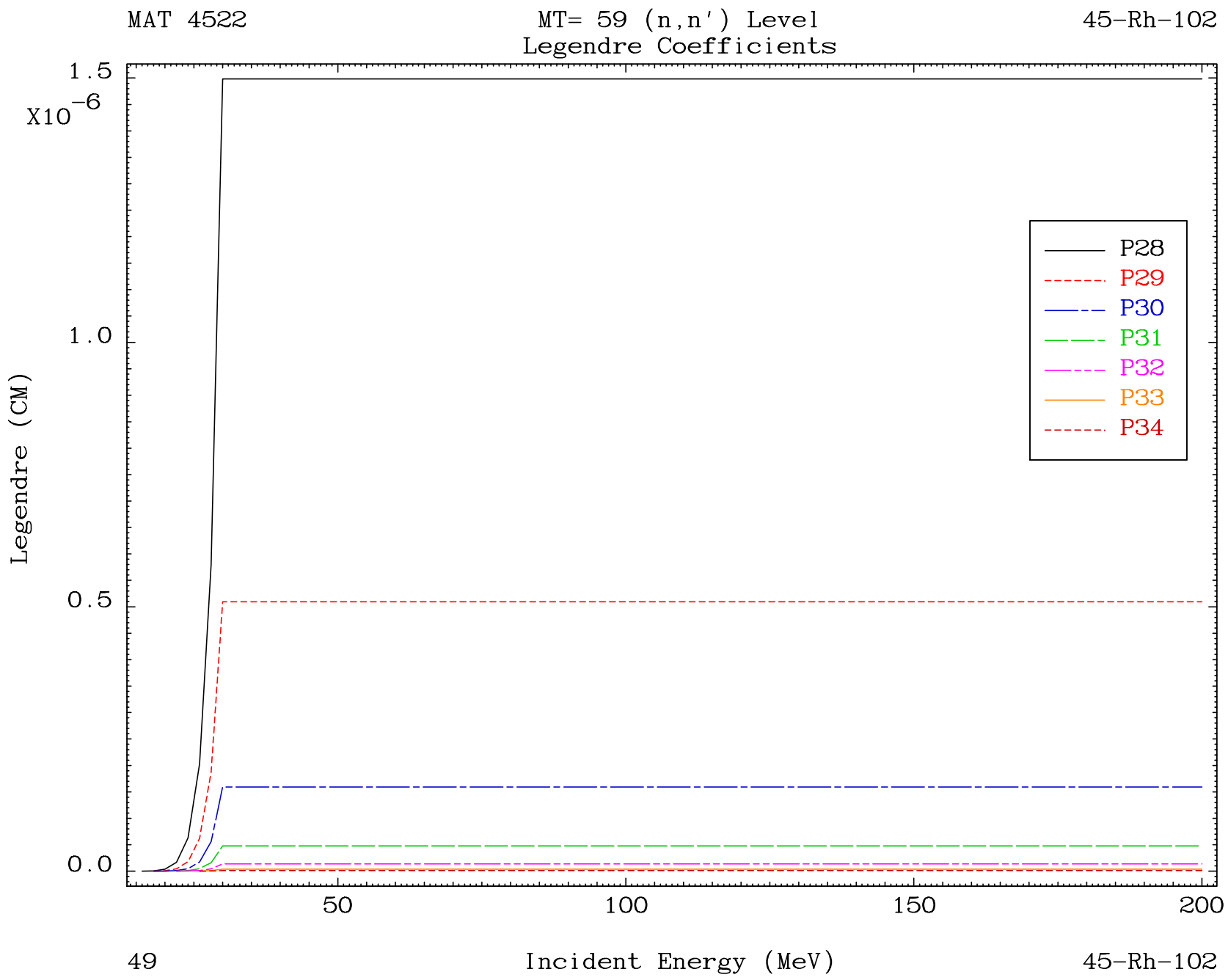

MAT 4522
MT= 58 (n,n') Level
Legendre Coefficients
45-Rh-102
X10^-43
2
1
0
-1
Legendre (CM)
0
50
100
150
200
Incident Energy (MeV)
44
45-Rh-102
P9
P10
P11
P12
P13
P14
P15
P16

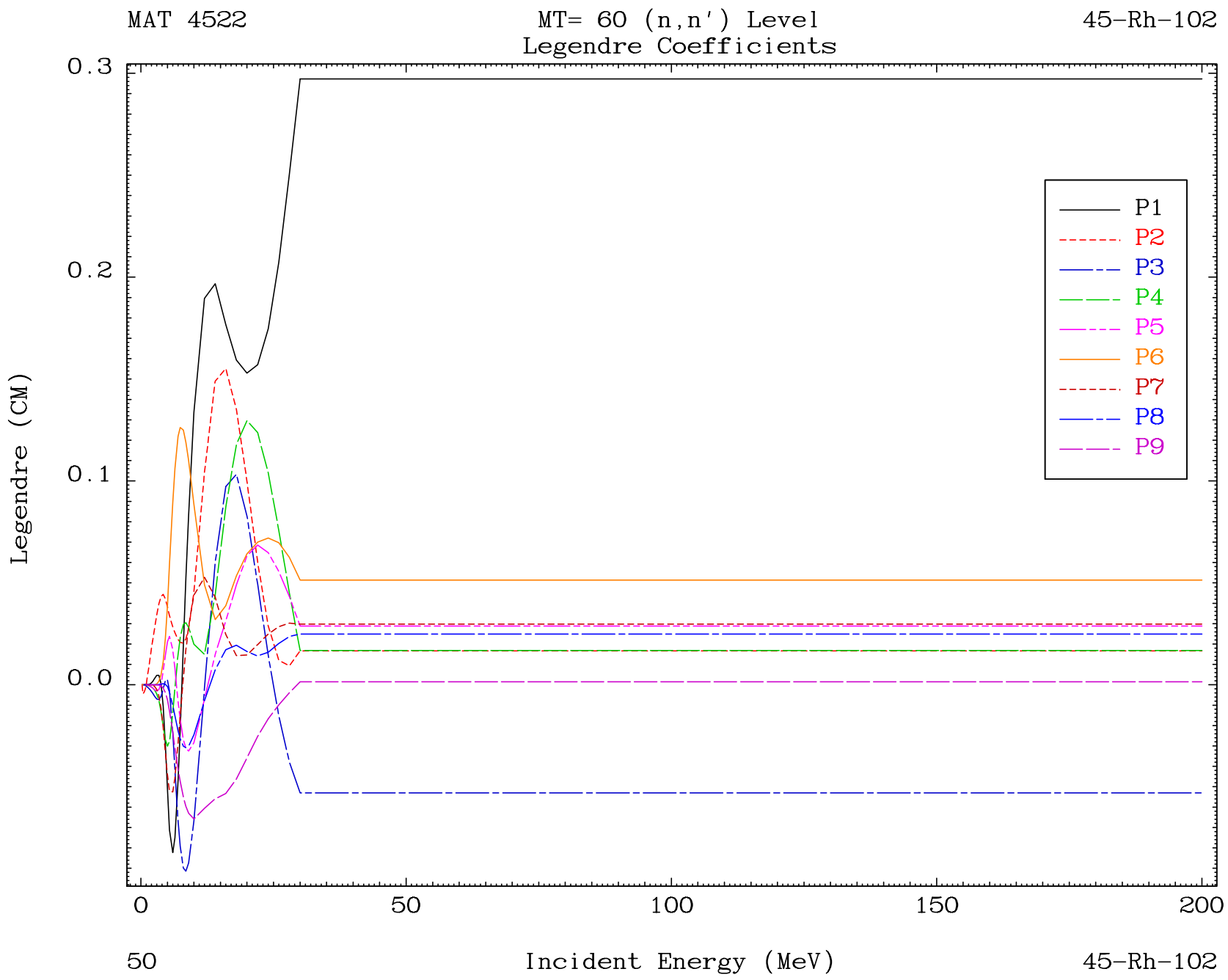

MAT 4522
MT= 58 (n,n') Level
Legendre Coefficients
45-Rh-102
0.0
X10^-6
-0.5
-1.0
-1.5
-2.0
Legendre (CM)
50
100
150
200
45
Incident Energy (MeV)
45-Rh-102
P17
P18
P19
P20
P21
P22
P23
P24

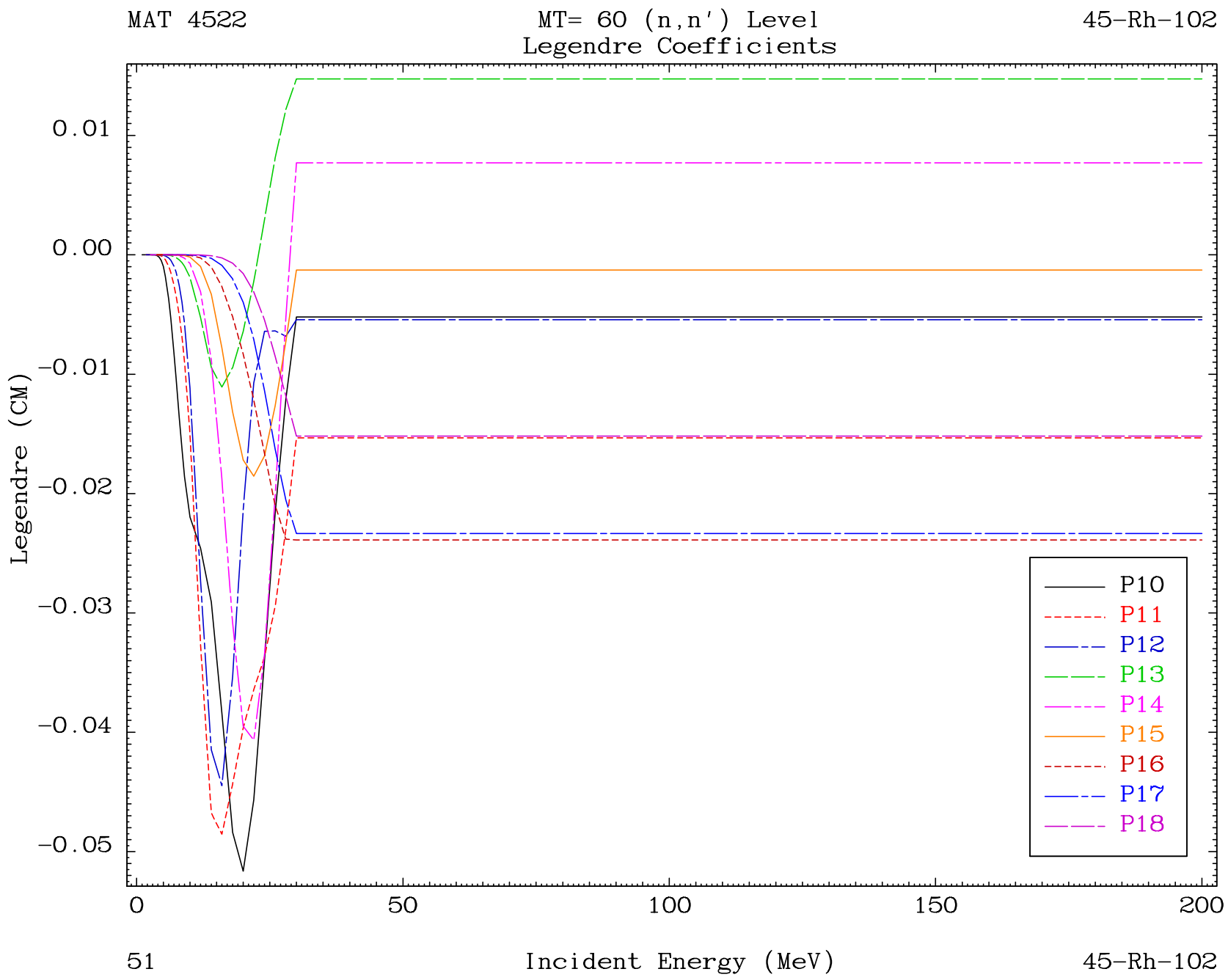

MAT 4522
MT= 59 (n,n') Level
Legendre Coefficients
45-Rh-102
P1
P2
P3
P4
P5
P6
P7
P8
P9
Legendre (CM)
1.0
0.8
0.6
0.4
0.2
0.0
0
50
100
150
200
46
Incident Energy (MeV)
45-Rh-102

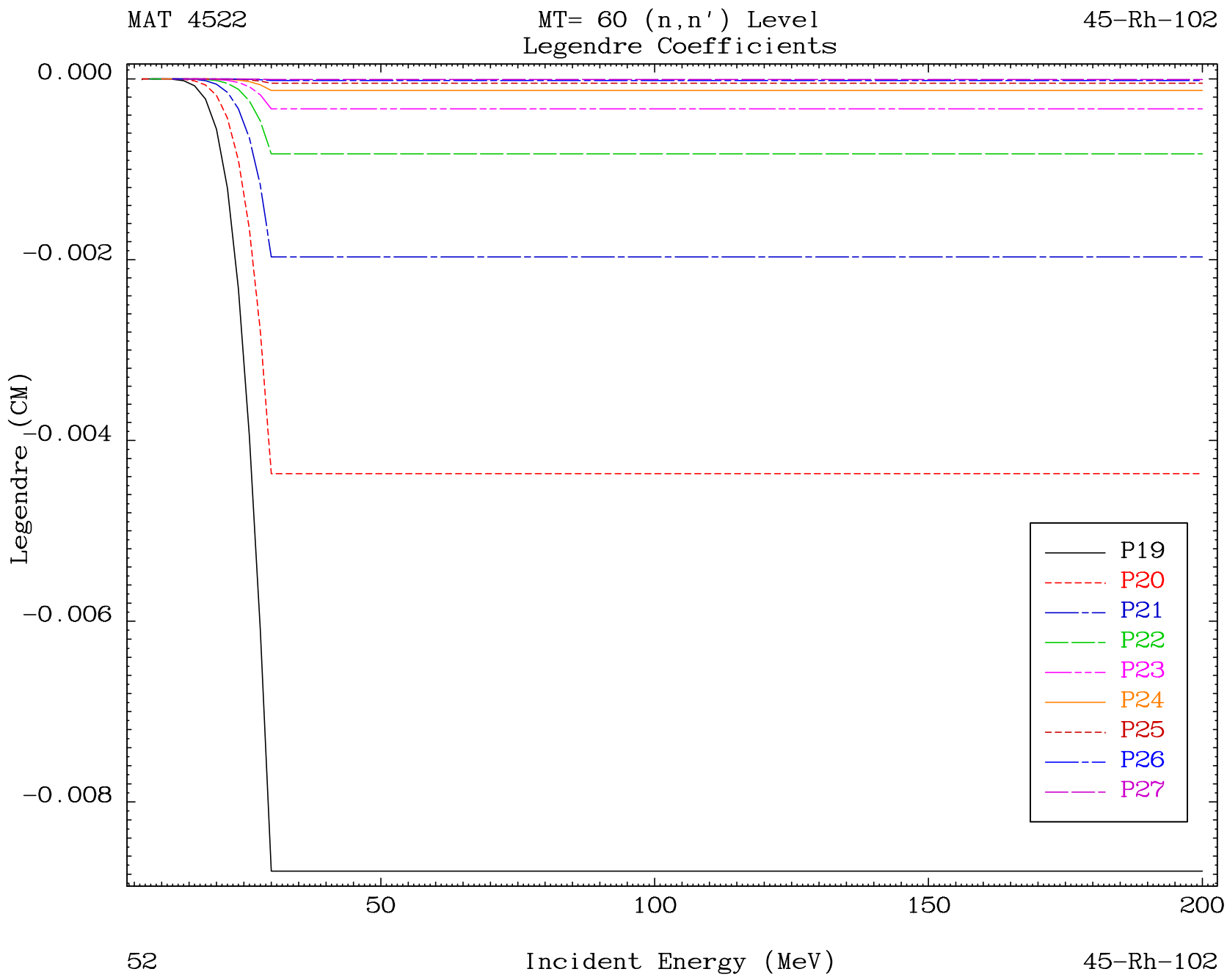

MAT 4522
MT= 59 (n,n') Level
Legendre Coefficients
45-Rh-102
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.04
0.02
0.00
-0.02
-0.04
Legendre (CM)
0
50
100
150
200
47
Incident Energy (MeV)
45-Rh-102

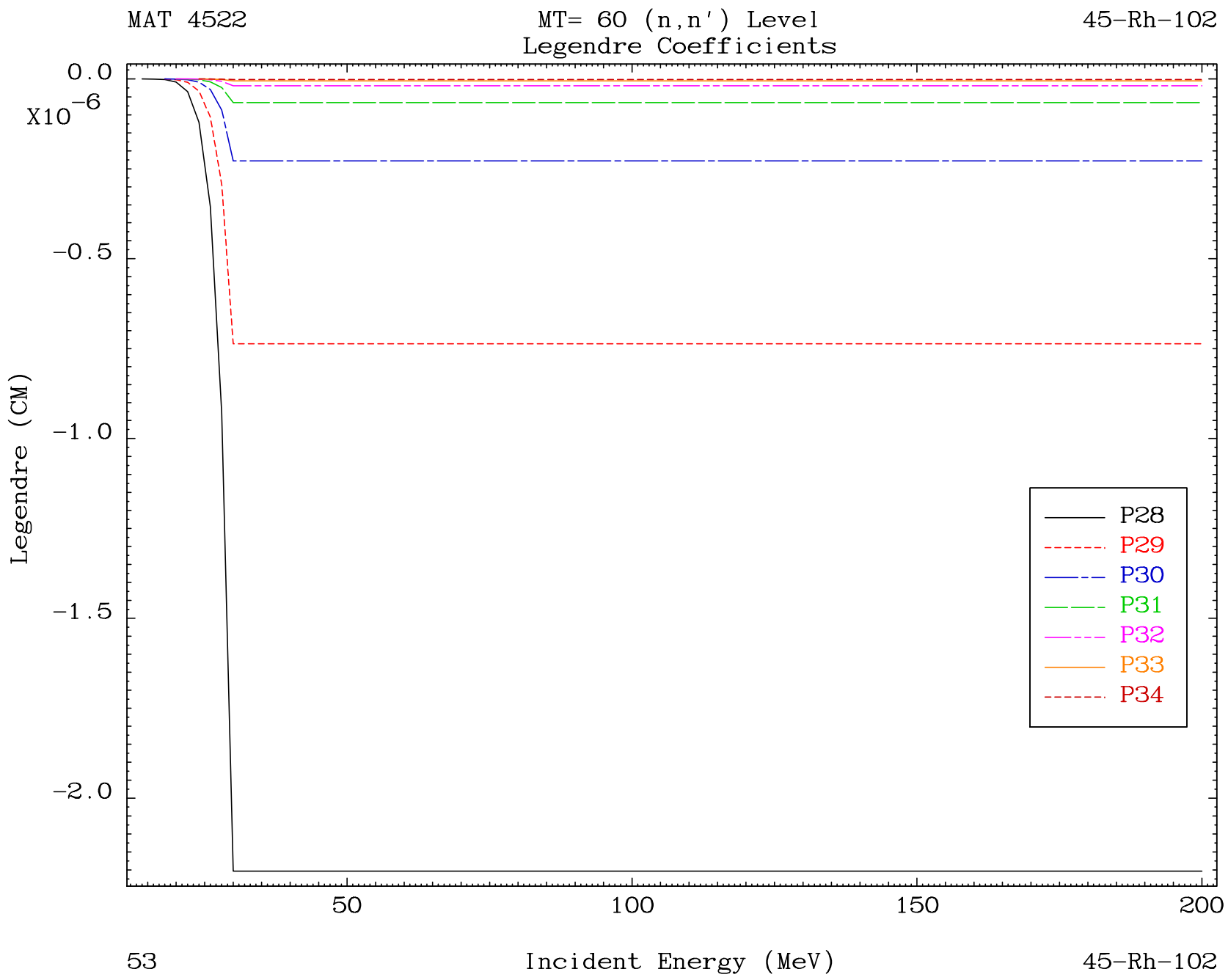

MAT 4522
MT= 59 (n,n') Level
Legendre Coefficients
45-Rh-102
P19
P20
P21
P22
P23
P24
P25
P26
P27
0.000
0.000
0.000
0.000
0.000
Legendre (CM)
50
100
150
200
48
Incident Energy (MeV)
45-Rh-102

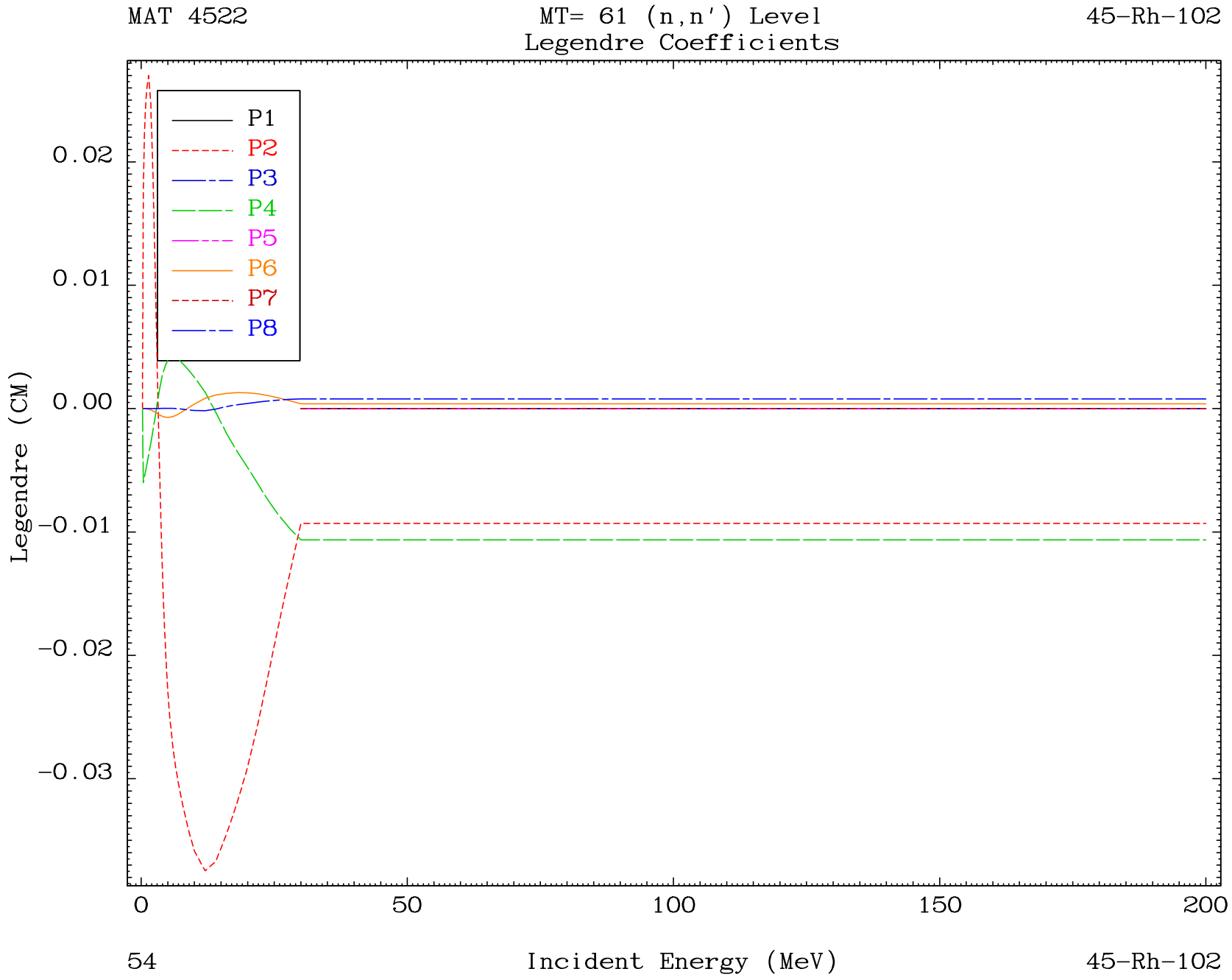

MAT 4522
MT= 59 (n,n') Level
Legendre Coefficients
45-Rh-102
1.5
X10^-6
1.0
0.5
0.0
Legendre (CM)
50
100
150
200
P28
P29
P30
P31
P32
P33
P34
49
Incident Energy (MeV)
45-Rh-102

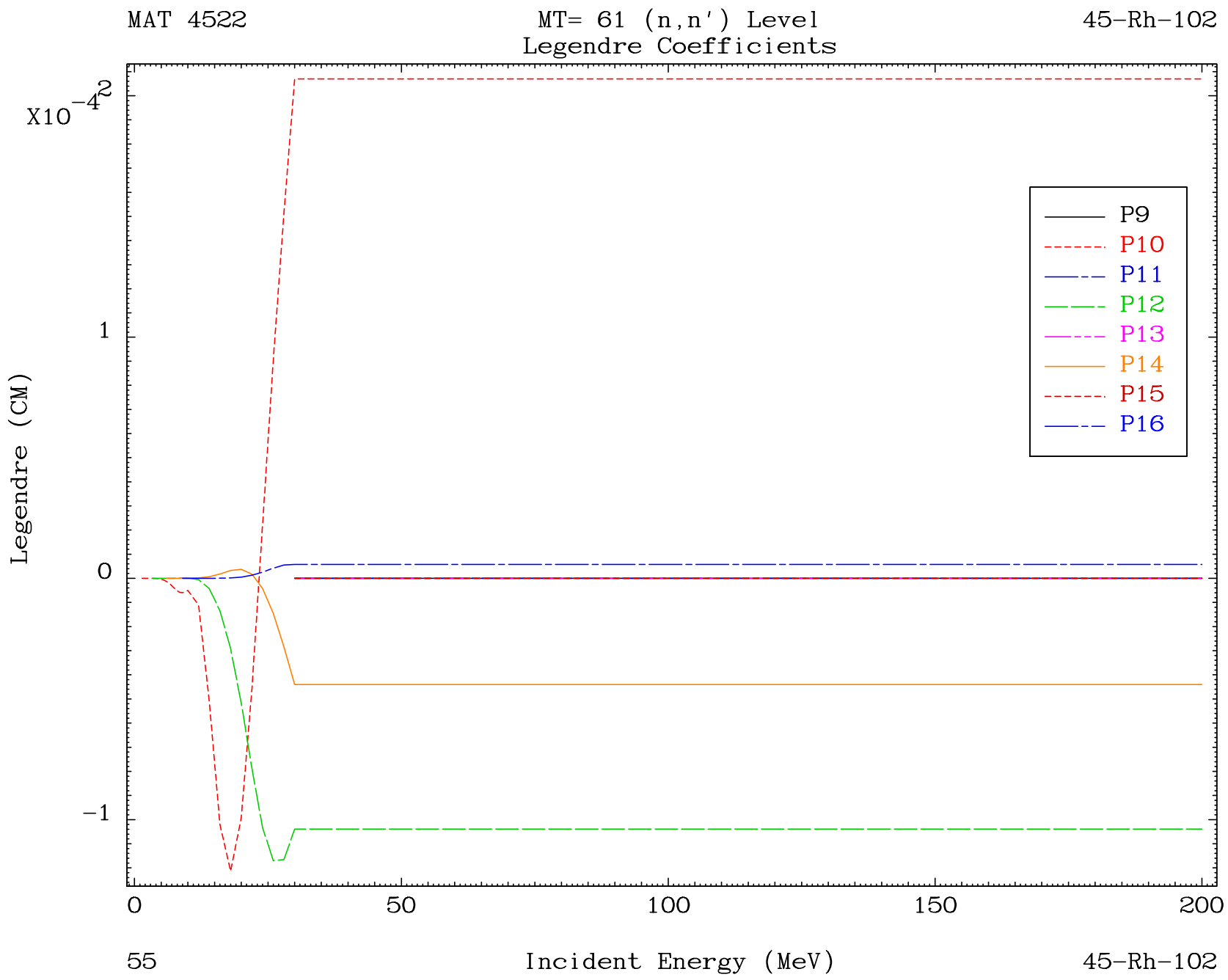

MAT 4522
MT= 60 (n,n') Level
Legendre Coefficients
45-Rh-102
0.3
0.2
0.1
0.0
Legendre (CM)
0
50
100
150
200
50
Incident Energy (MeV)
45-Rh-102
P1
P2
P3
P4
P5
P6
P7
P8
P9

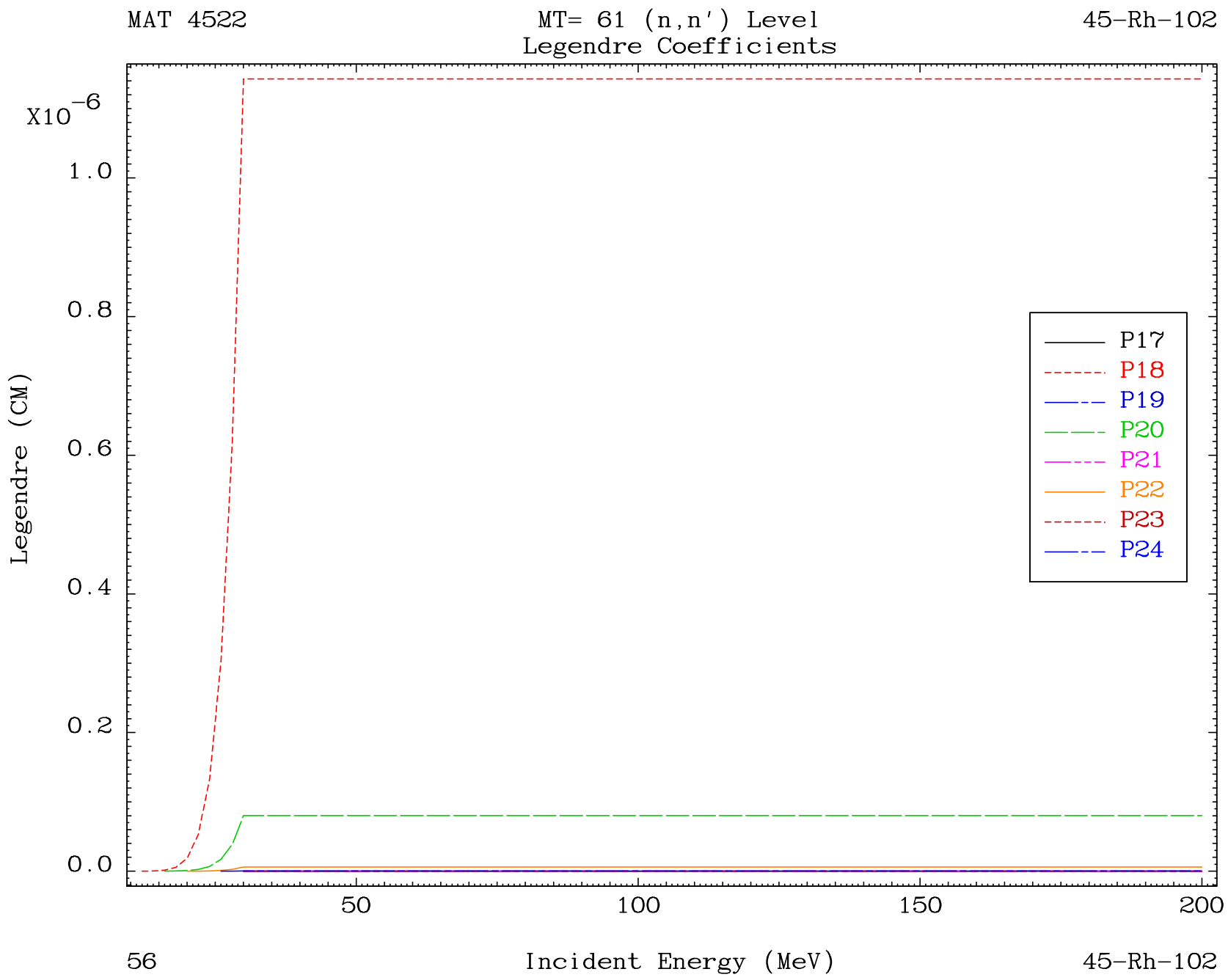

MAT 4522
MT= 60 (n,n') Level
Legendre Coefficients
45-Rh-102
0.01
0.00
-0.01
-0.02
-0.03
-0.04
-0.05
Legendre (CM)
0
50
100
150
200
Incident Energy (MeV)
51
45-Rh-102
P10
P11
P12
P13
P14
P15
P16
P17
P18

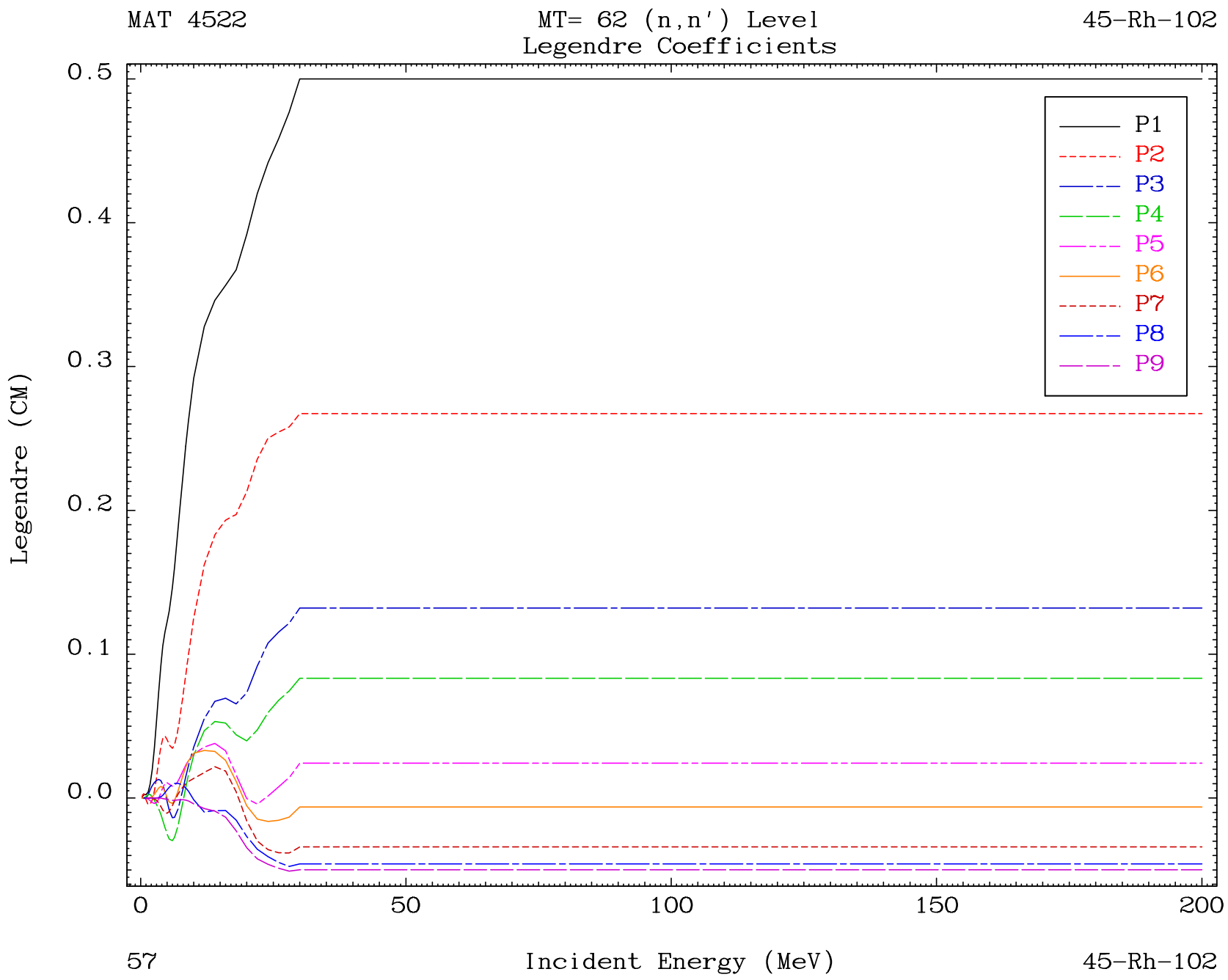

MAT 4522
MT= 60 (n,n') Level
Legendre Coefficients
45-Rh-102
0.000
-0.002
-0.004
-0.006
-0.008
Legendre (CM)
50
100
150
200
52
Incident Energy (MeV)
45-Rh-102
P19
P20
P21
P22
P23
P24
P25
P26
P27

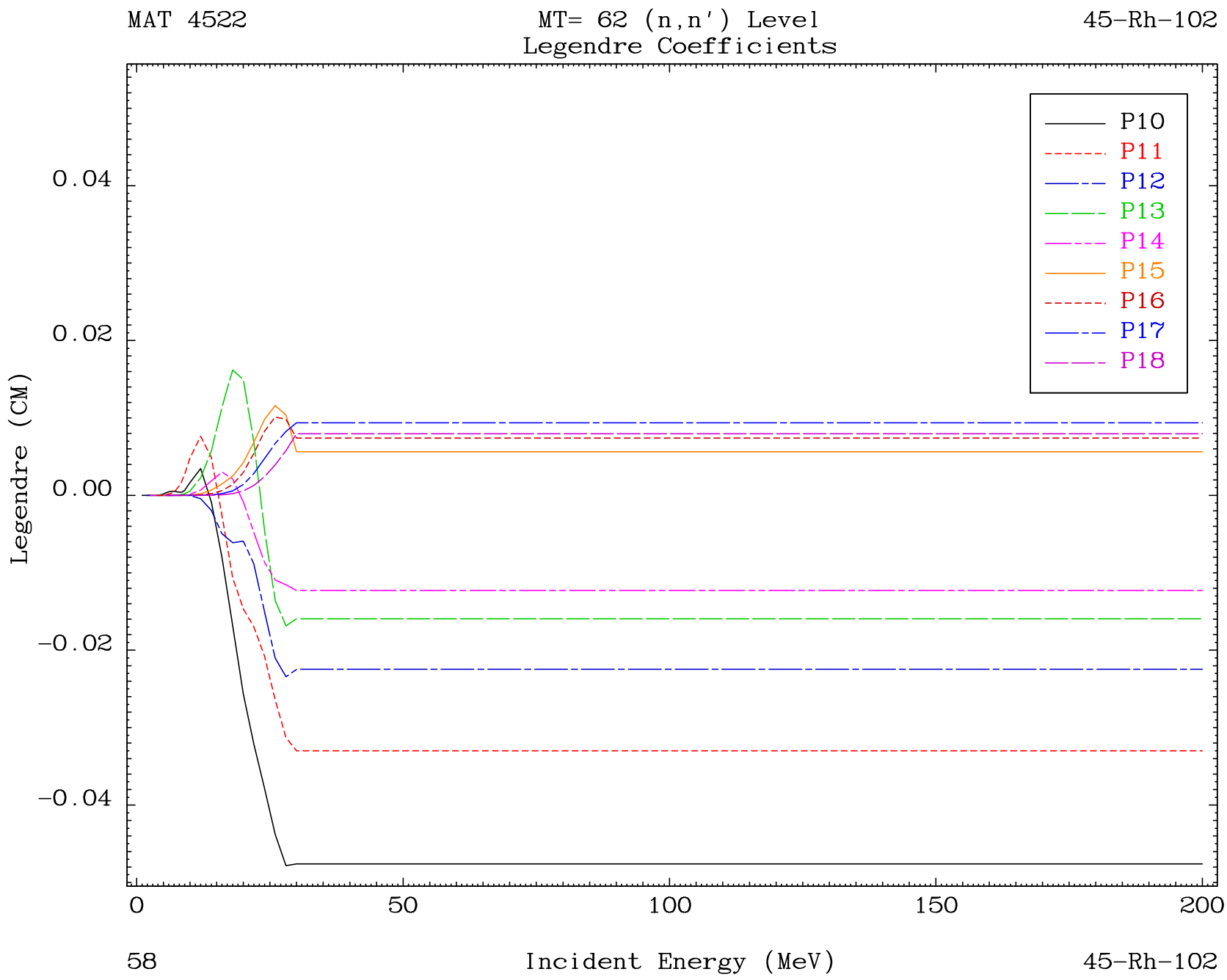

MAT 4522
MT= 60 (n,n') Level
Legendre Coefficients
45-Rh-102
0.0
X10^-6
-0.5
-1.0
-1.5
-2.0
Legendre (CM)
50
100
150
200
Incident Energy (MeV)
P28
P29
P30
P31
P32
P33
P34
53
45-Rh-102

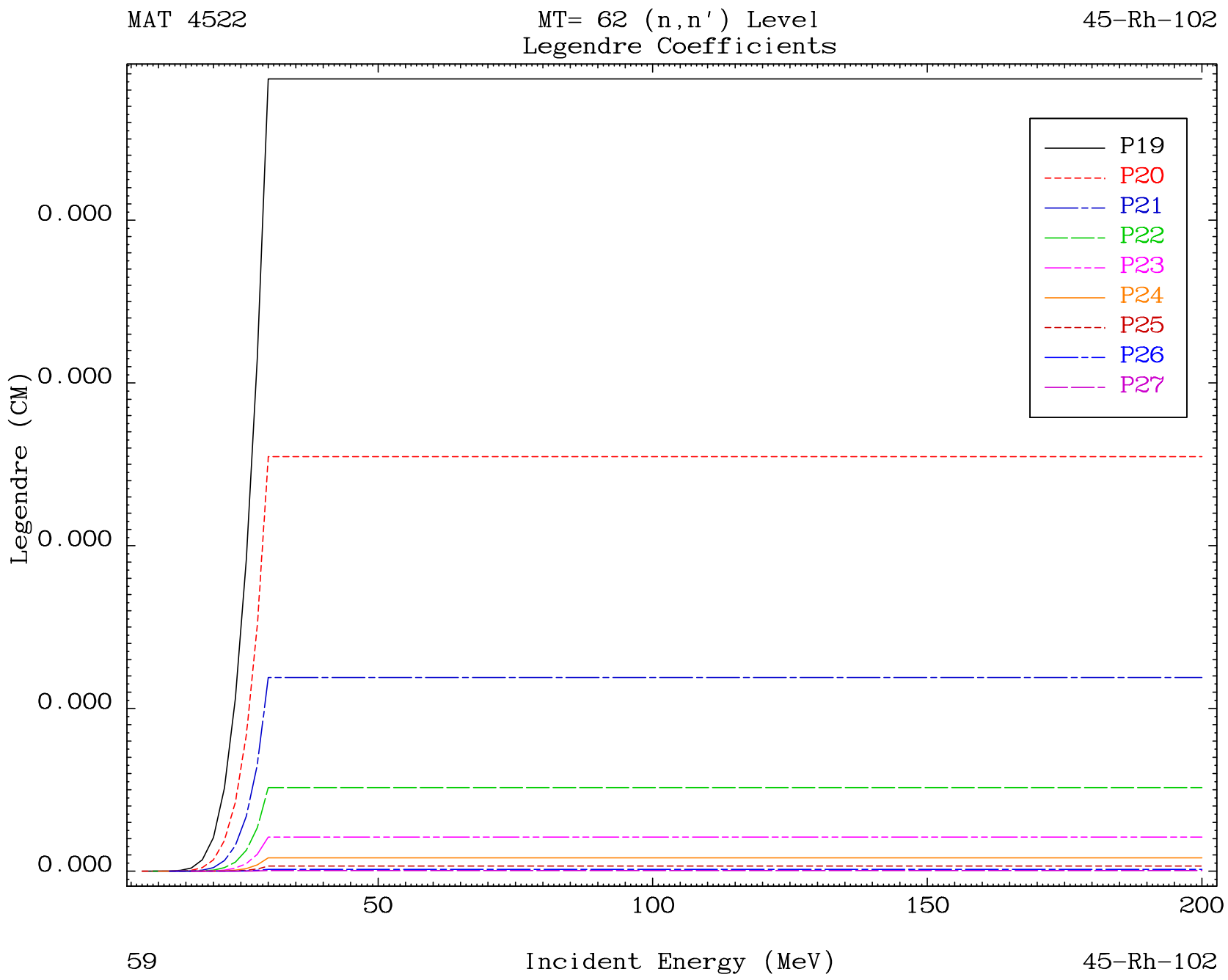

MAT 4522
MT= 61 (n,n') Level
Legendre Coefficients
45-Rh-102
P1
P2
P3
P4
P5
P6
P7
P8
0.02
0.01
0.00
-0.01
-0.02
-0.03
Legendre (CM)
0
50
100
150
200
54
Incident Energy (MeV)
45-Rh-102

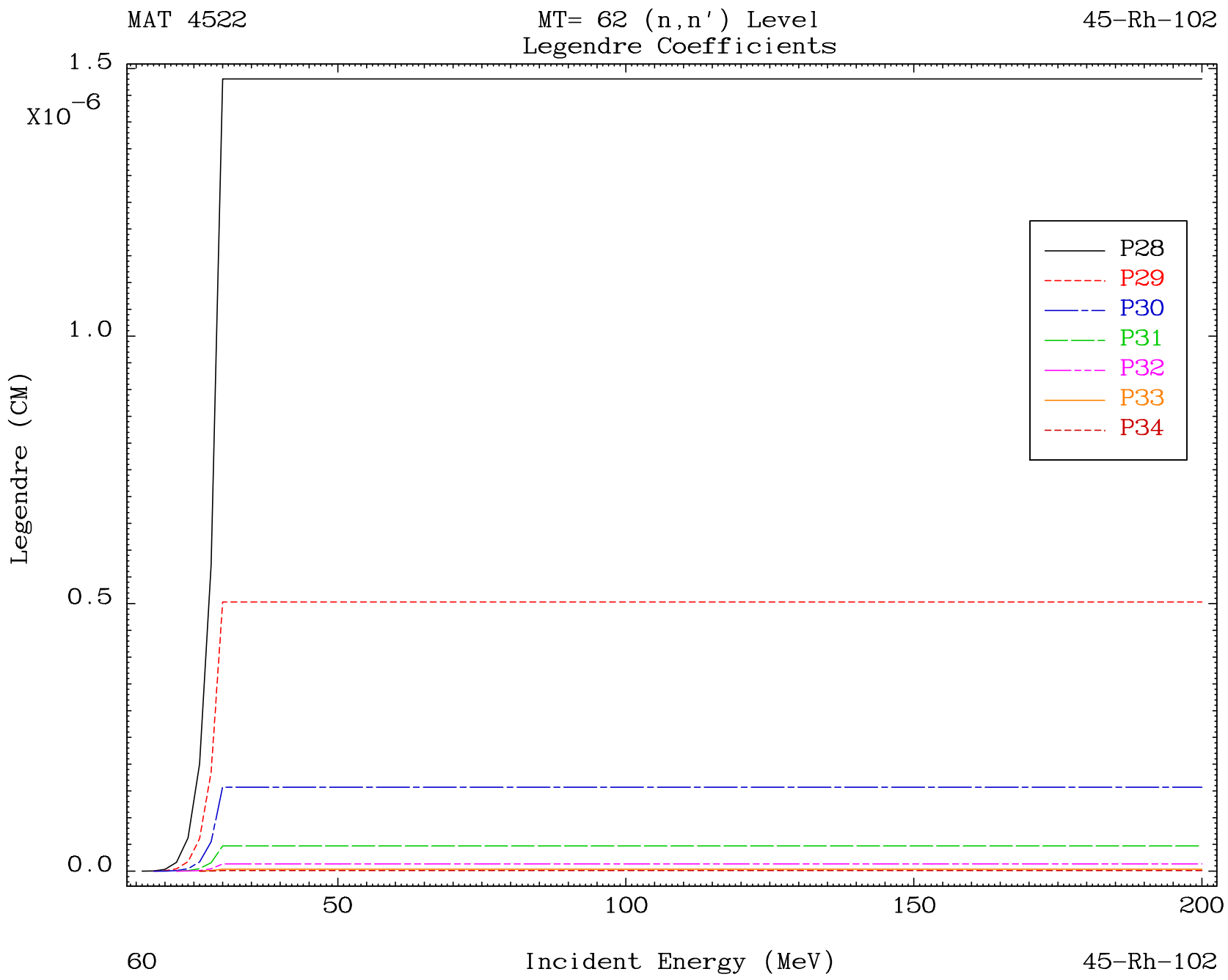

MAT 4522
MT= 61 (n,n') Level
Legendre Coefficients
45-Rh-102
X10^-4
2
1
0
-1
Legendre (CM)
0
50
100
150
200
55
Incident Energy (MeV)
45-Rh-102
P9
P10
P11
P12
P13
P14
P15
P16

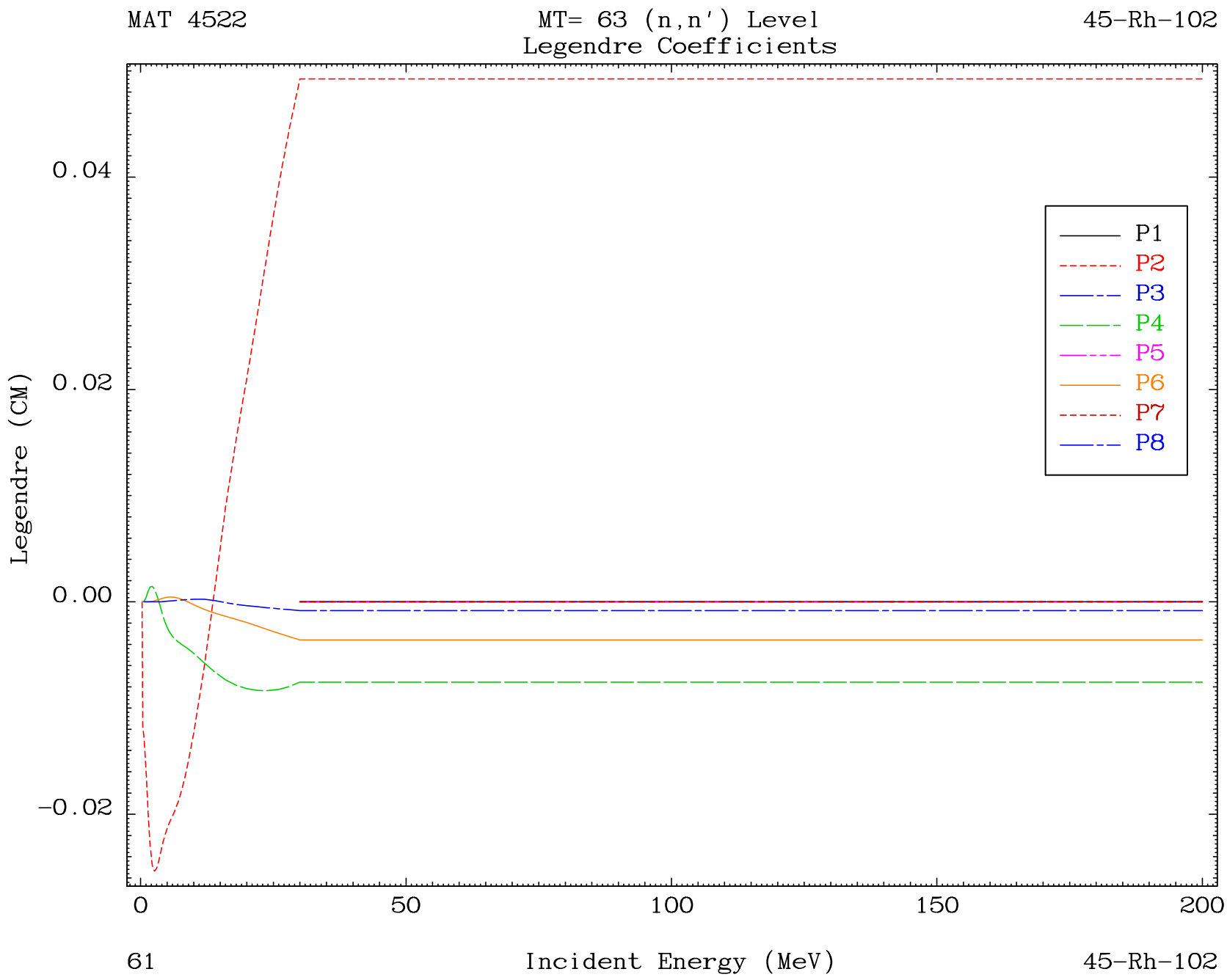

MAT 4522
MT= 61 (n,n') Level
Legendre Coefficients
45-Rh-102
X10^-6
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
50
100
150
200
Incident Energy (MeV)
P17
P18
P19
P20
P21
P22
P23
P24
56
45-Rh-102

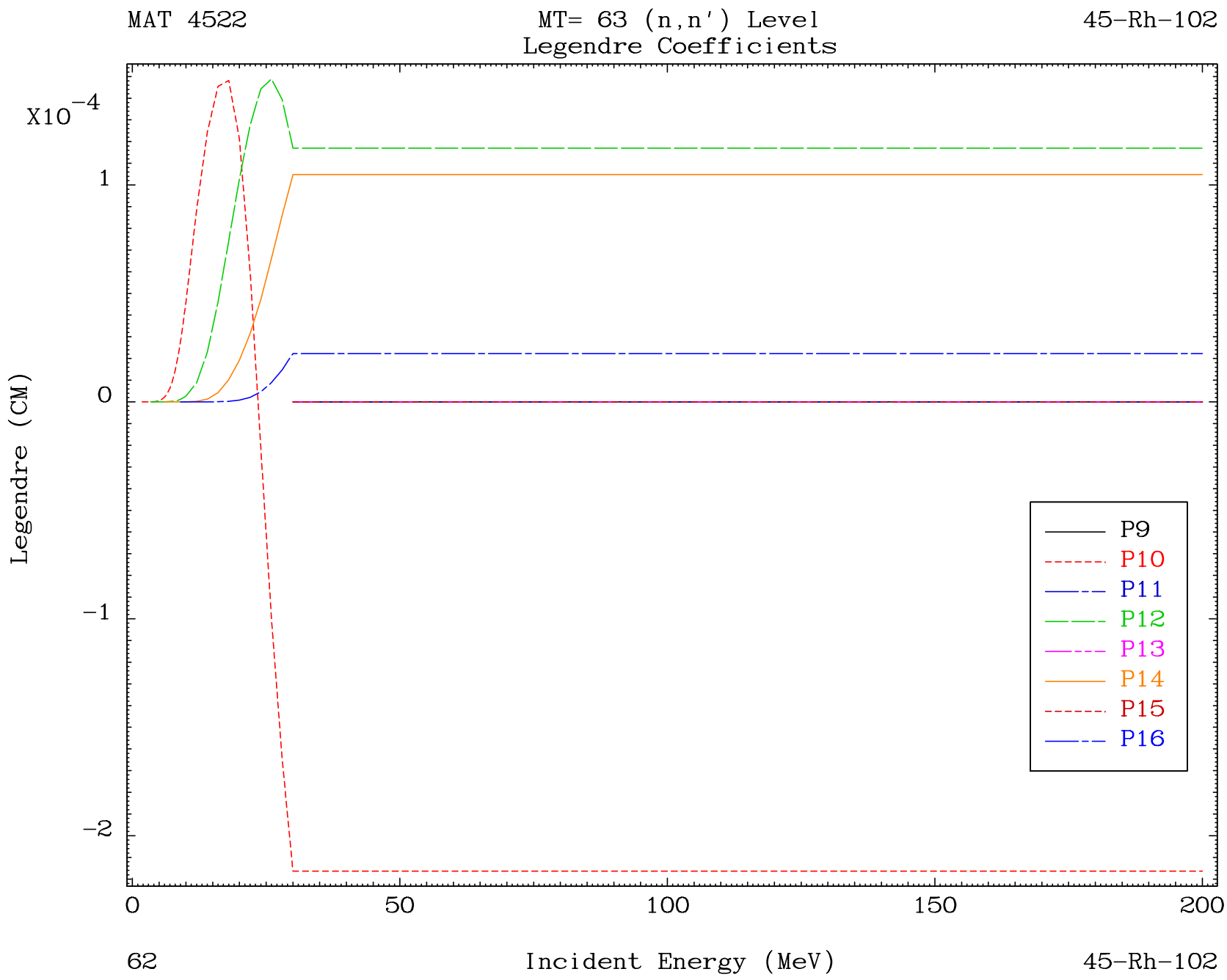

MAT 4522
MT= 62 (n,n') Level
Legendre Coefficients
45-Rh-102
0.5
0.4
0.3
0.2
0.1
0.0
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
57
Incident Energy (MeV)
45-Rh-102

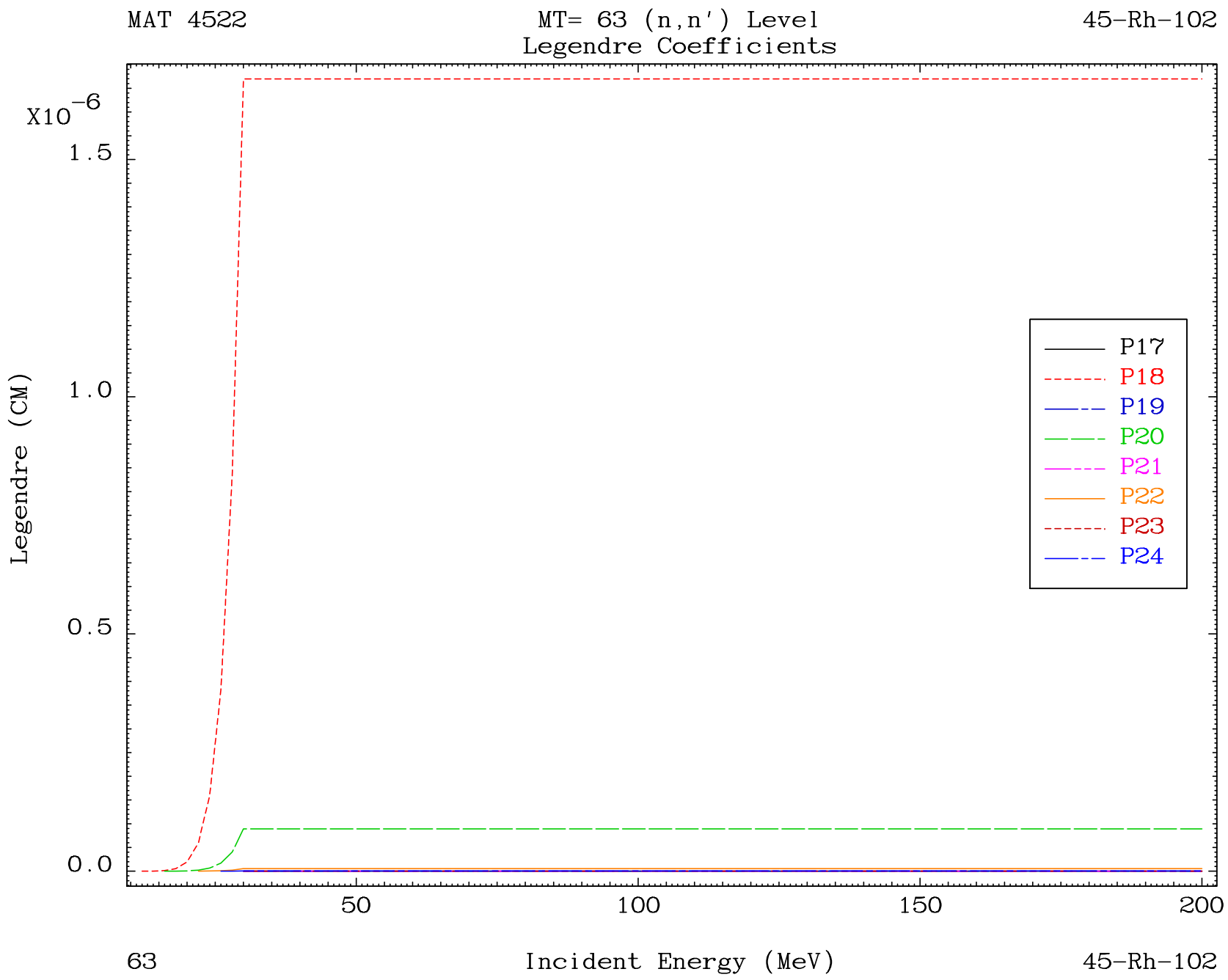

MAT 4522
MT= 62 (n,n') Level
Legendre Coefficients
45-Rh-102
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.04
0.02
0.00
-0.02
-0.04
Legendre (CM)
0
50
100
150
200
58
Incident Energy (MeV)
45-Rh-102

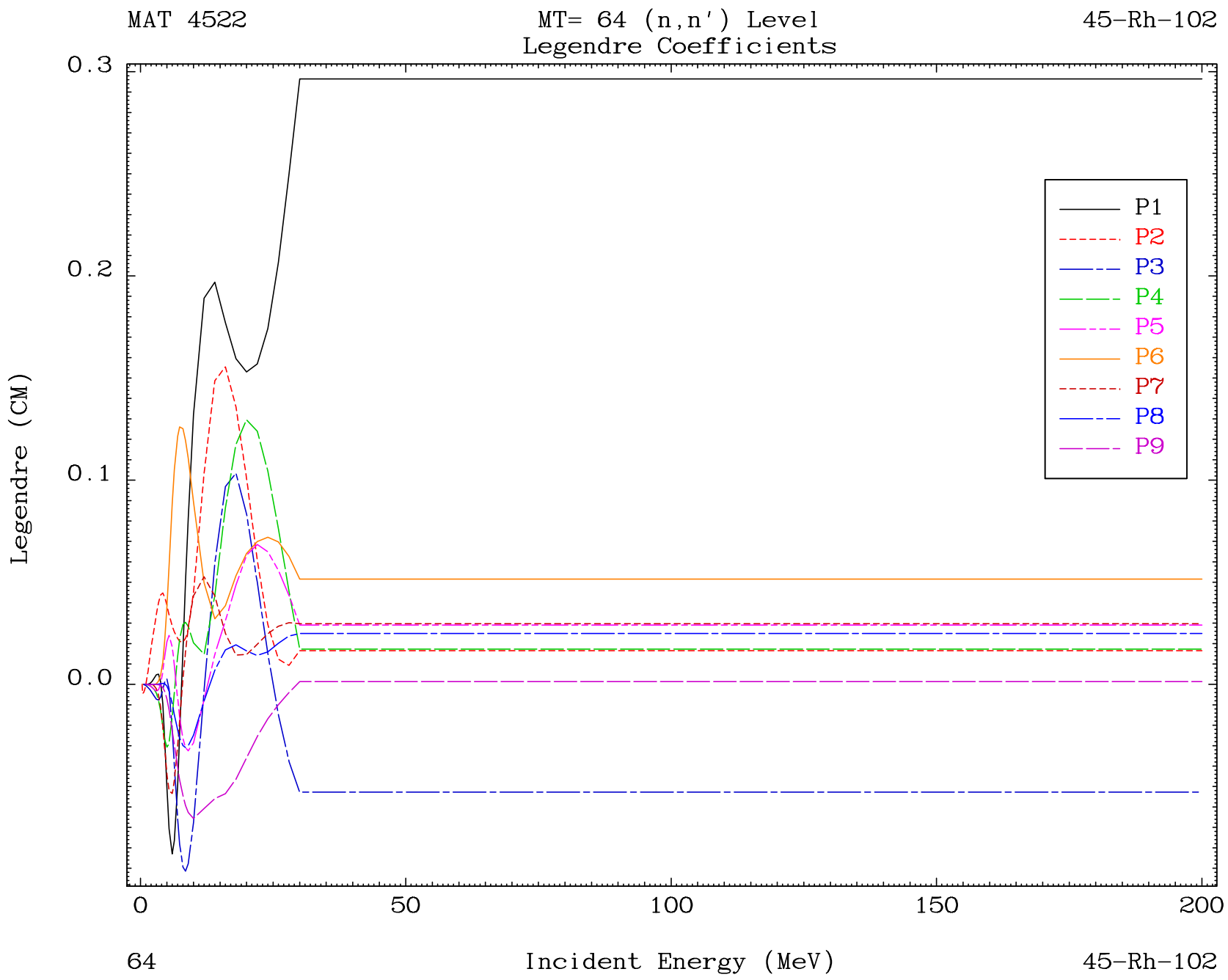

MAT 4522
MT= 62 (n,n') Level
Legendre Coefficients
45-Rh-102
P19
P20
P21
P22
P23
P24
P25
P26
P27
0.000
0.000
0.000
0.000
0.000
Legendre (CM)
50
100
150
200
59
Incident Energy (MeV)
45-Rh-102

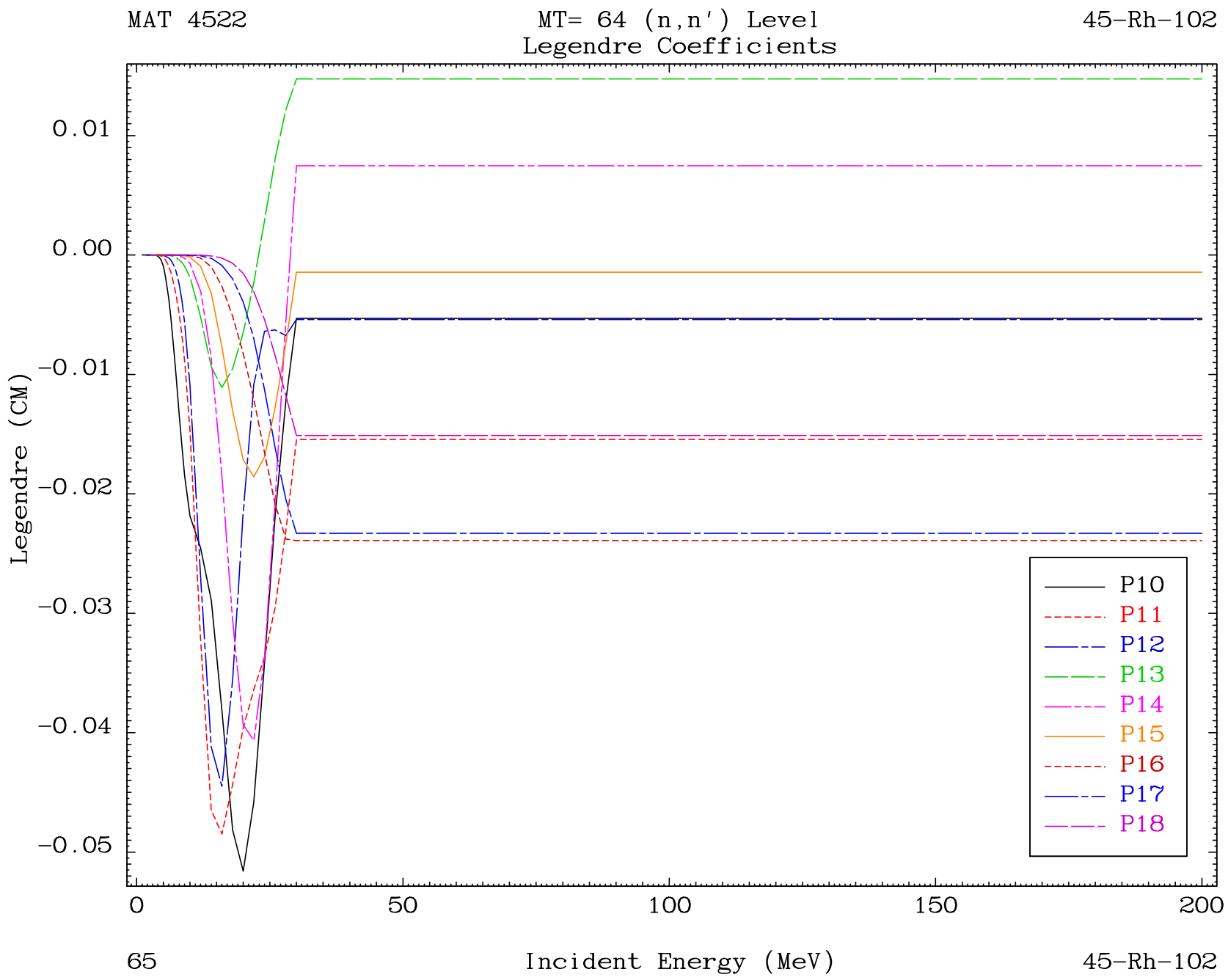

MAT 4522
MT= 62 (n,n') Level
Legendre Coefficients
45-Rh-102
1.5
X10^-6
1.0
0.5
0.0
Legendre (CM)
50
100
150
200
60
Incident Energy (MeV)
45-Rh-102
P28
P29
P30
P31
P32
P33
P34

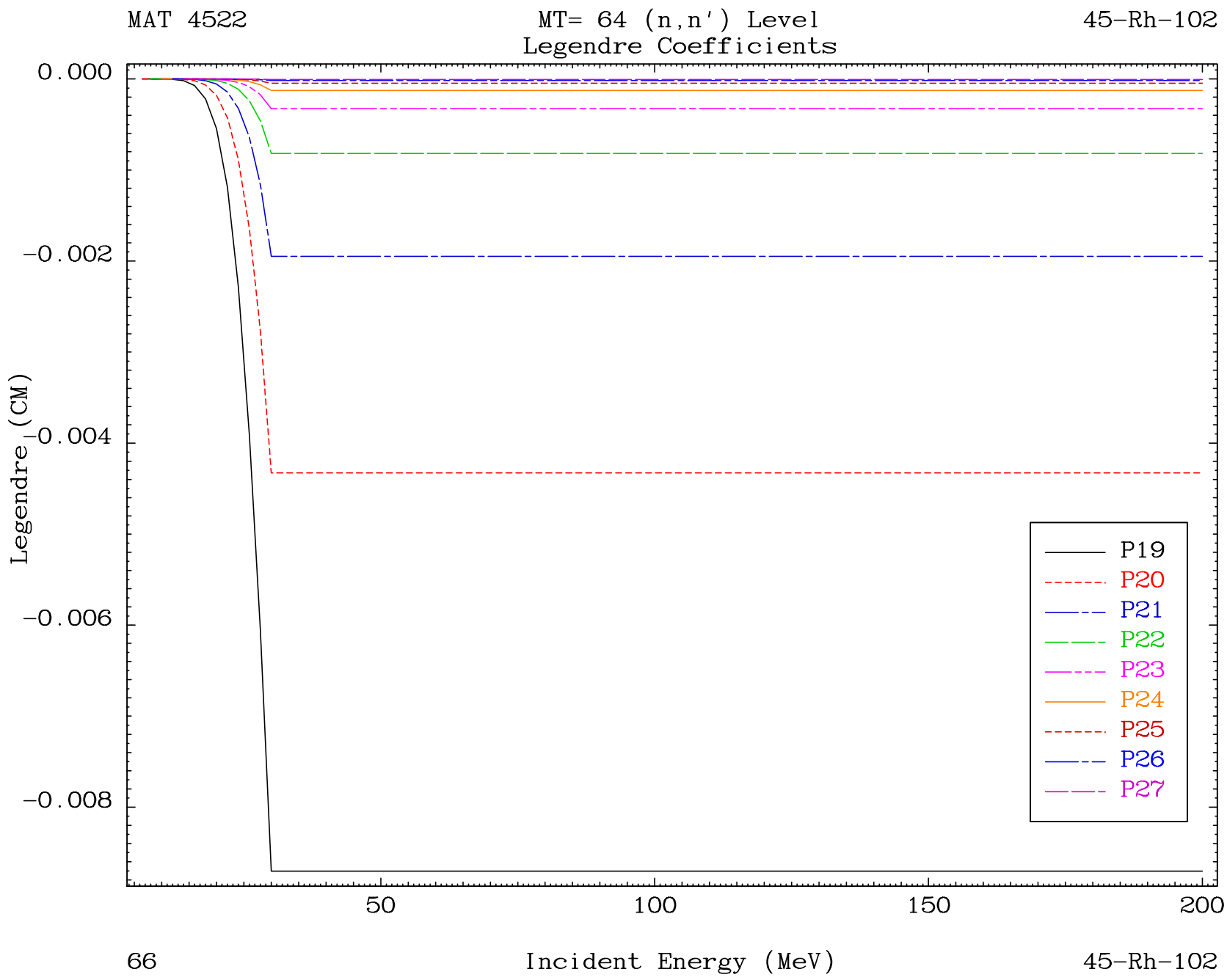

MAT 4522
MT= 63 (n,n') Level
Legendre Coefficients
45-Rh-102
0.04
0.02
0.00
-0.02
Legendre (CM)
0
50
100
150
200
Incident Energy (MeV)
61
45-Rh-102
P1
P2
P3
P4
P5
P6
P7
P8

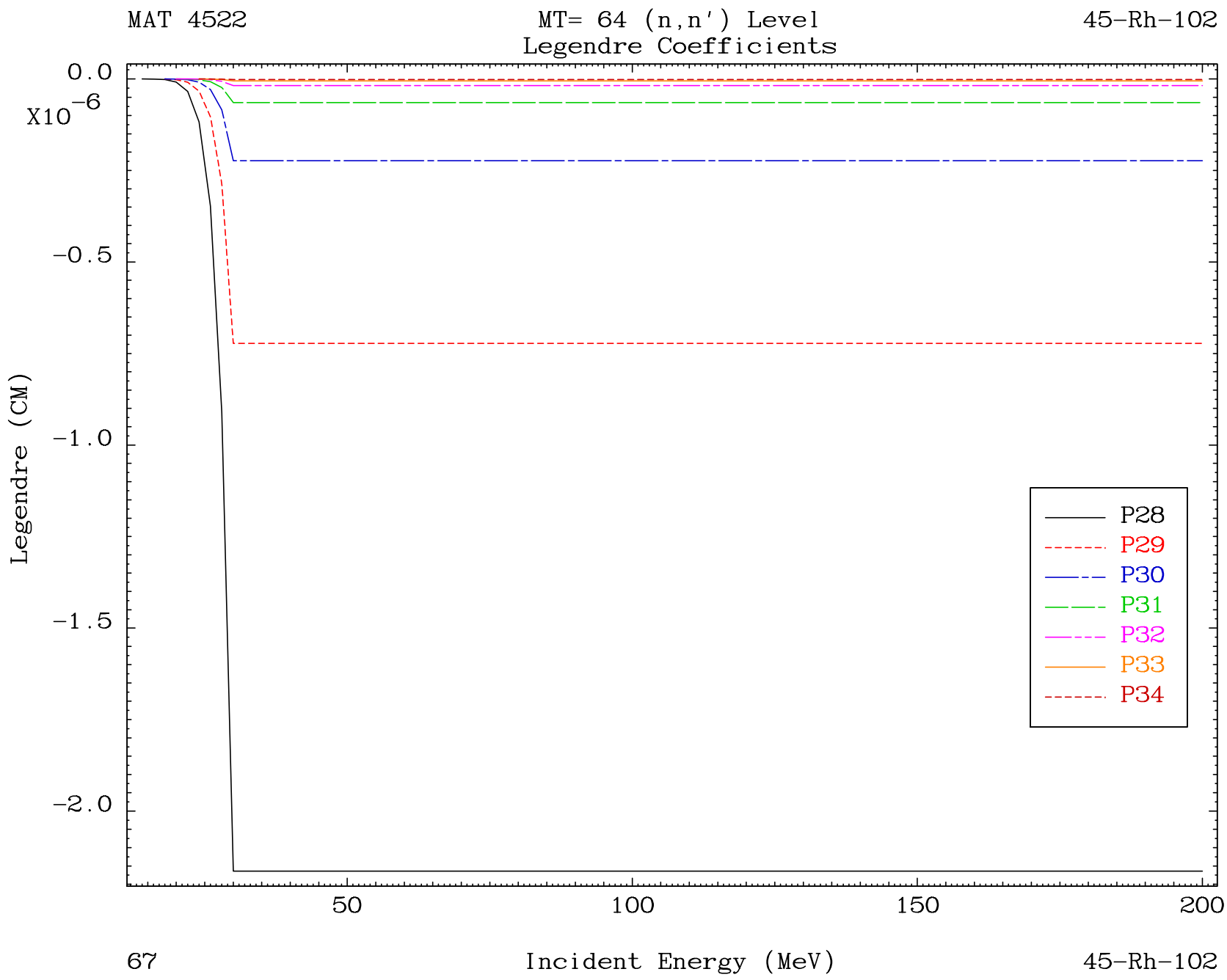

MAT 4522
MT= 63 (n,n') Level
Legendre Coefficients
45-Rh-102
X10^-4
1
0
-1
-2
Legendre (CM)
0
50
100
150
200
Incident Energy (MeV)
62
45-Rh-102
P9
P10
P11
P12
P13
P14
P15
P16

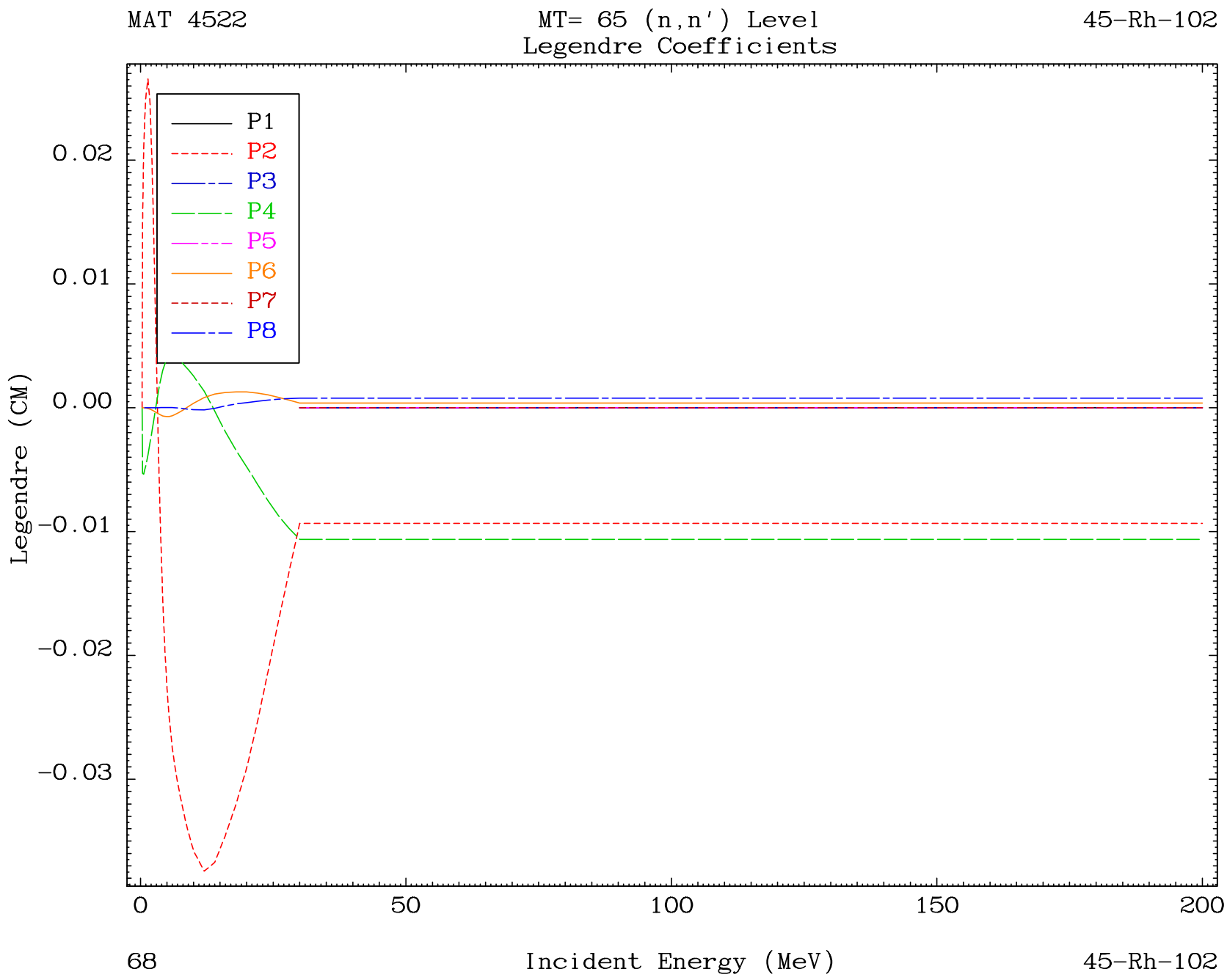

MAT 4522
MT= 63 (n,n') Level
Legendre Coefficients
45-Rh-102
X10^-6
1.5
1.0
0.5
0.0
Legendre (CM)
50
100
150
200
Incident Energy (MeV)
63
45-Rh-102
P17
P18
P19
P20
P21
P22
P23
P24

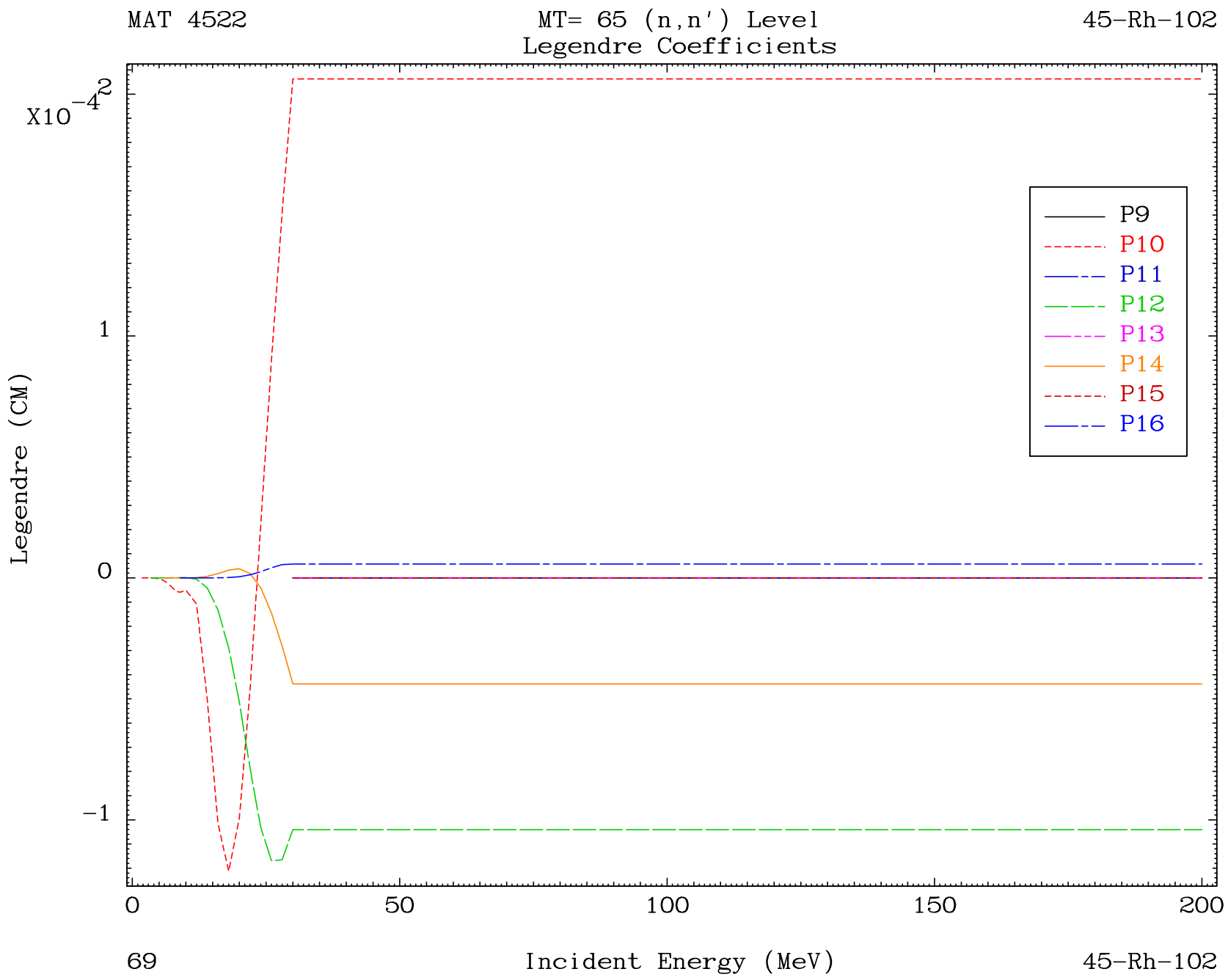

MAT 4522
MT= 64 (n,n') Level
Legendre Coefficients
45-Rh-102
0.3
0.2
0.1
0.0
Legendre (CM)
0
50
100
150
200
64
Incident Energy (MeV)
45-Rh-102
P1
P2
P3
P4
P5
P6
P7
P8
P9

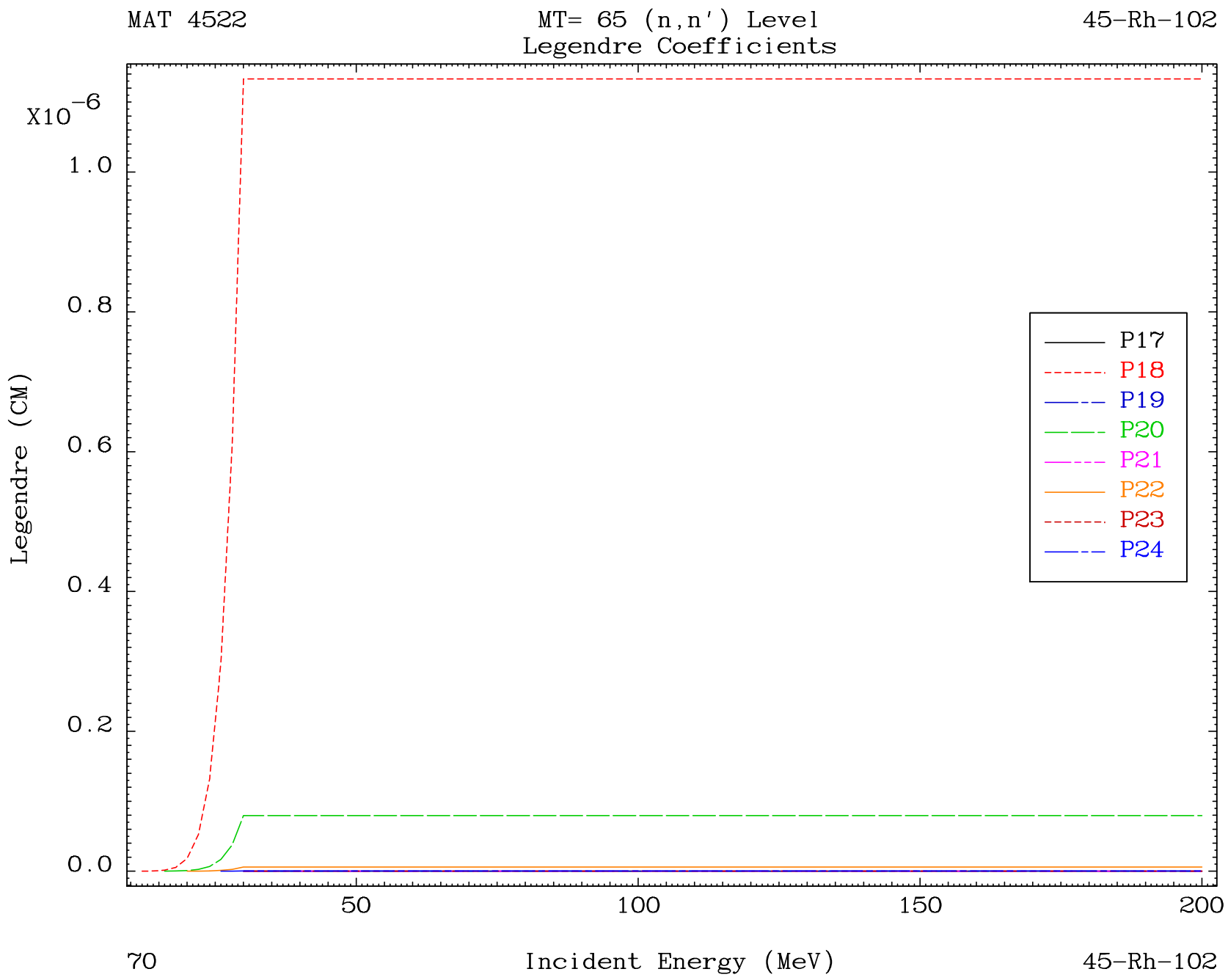

MAT 4522
MT= 64 (n,n') Level
Legendre Coefficients
45-Rh-102
0.01
0.00
-0.01
-0.02
-0.03
-0.04
-0.05
Legendre (CM)
0
50
100
150
200
65
Incident Energy (MeV)
45-Rh-102
P10
P11
P12
P13
P14
P15
P16
P17
P18

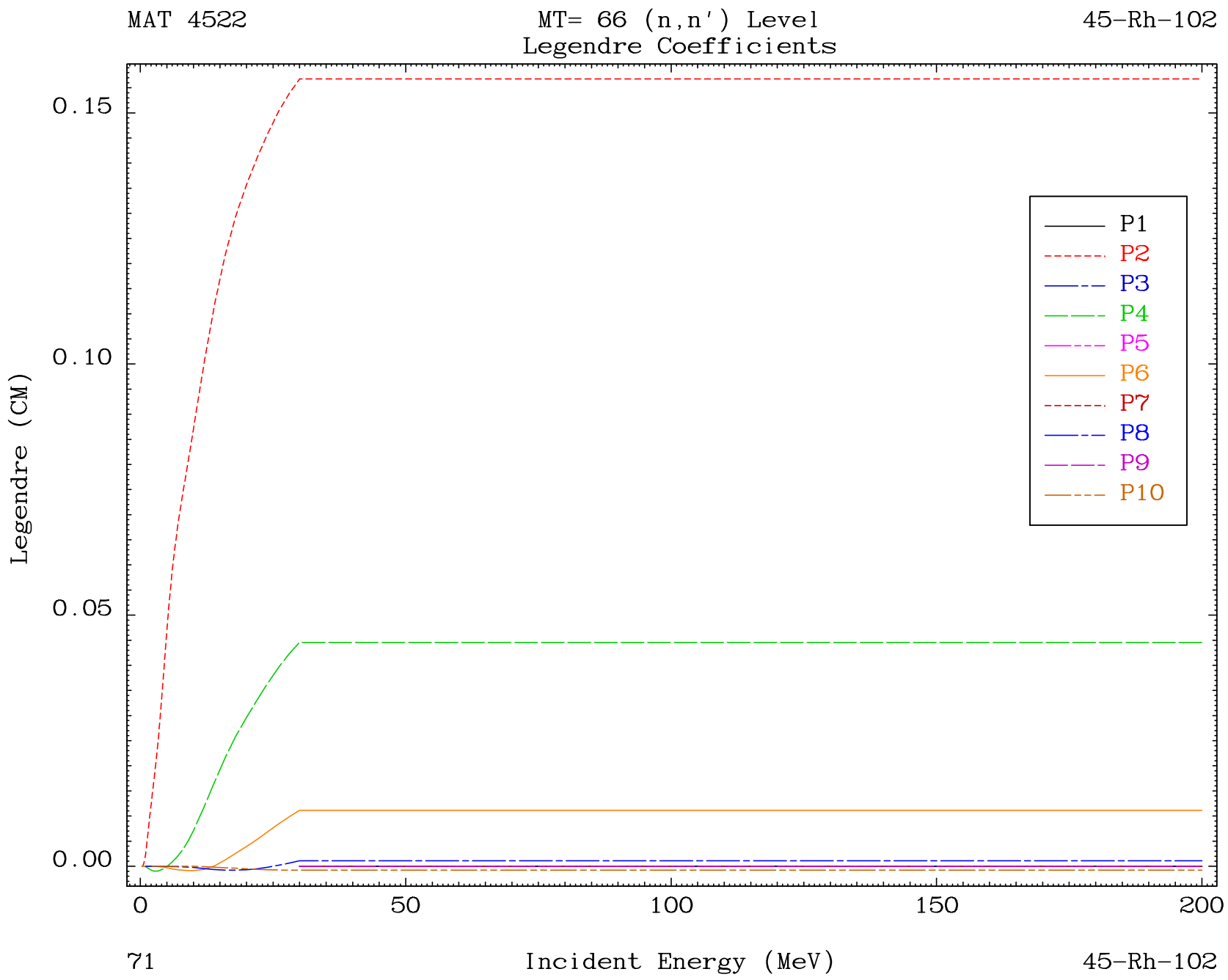

MAT 4522
MT= 64 (n,n') Level
Legendre Coefficients
45-Rh-102
0.000
-0.002
-0.004
-0.006
-0.008
Legendre$_l$(CM)
50
100
150
200
66
Incident Energy (MeV)
45-Rh-102
P19
P20
P21
P22
P23
P24
P25
P26
P27

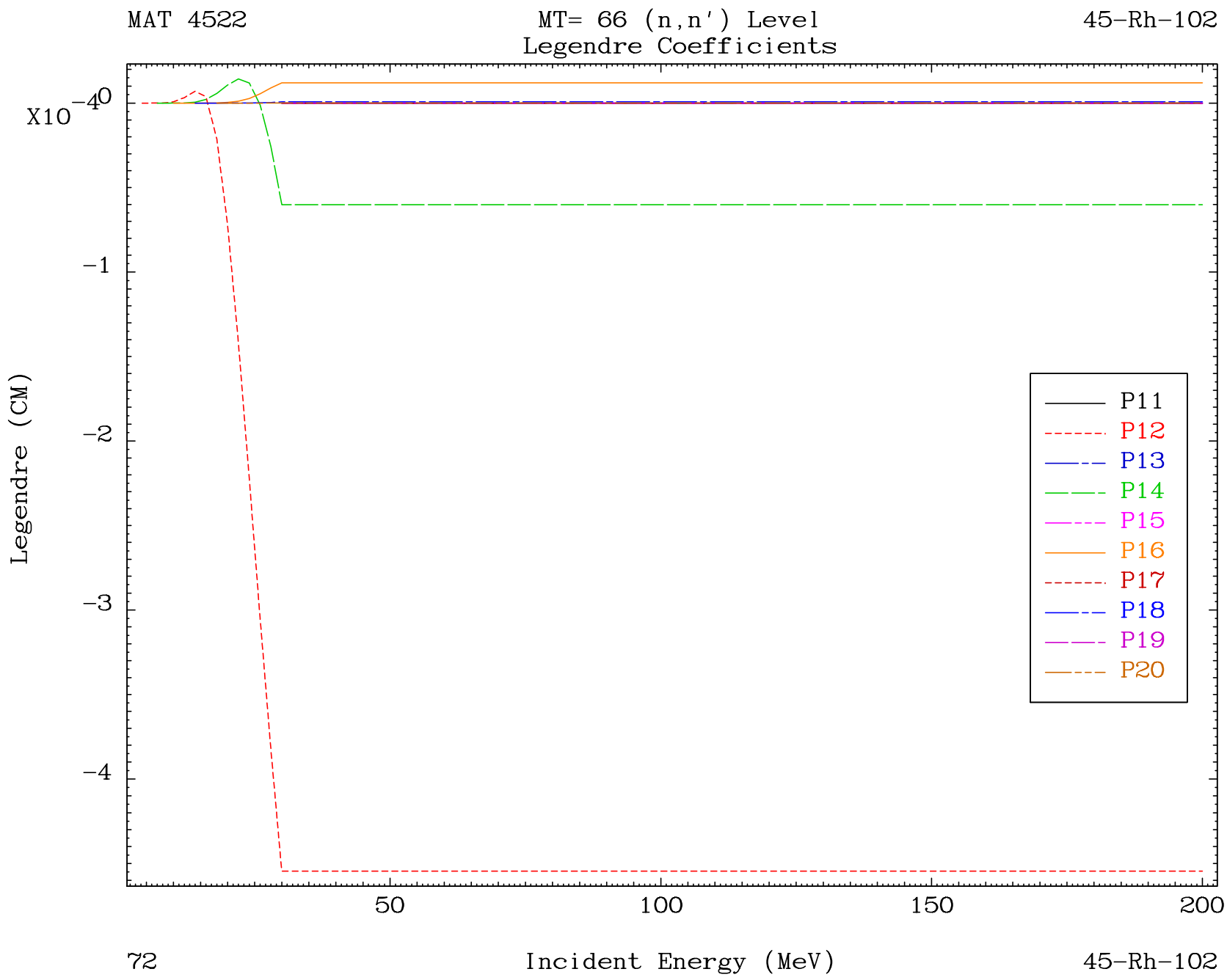

MAT 4522
MT= 64 (n,n') Level
Legendre Coefficients
45-Rh-102
0.0
X10^-6
-0.5
-1.0
-1.5
-2.0
Legendre (CM)
50
100
150
200
67
Incident Energy (MeV)
45-Rh-102
P28
P29
P30
P31
P32
P33
P34

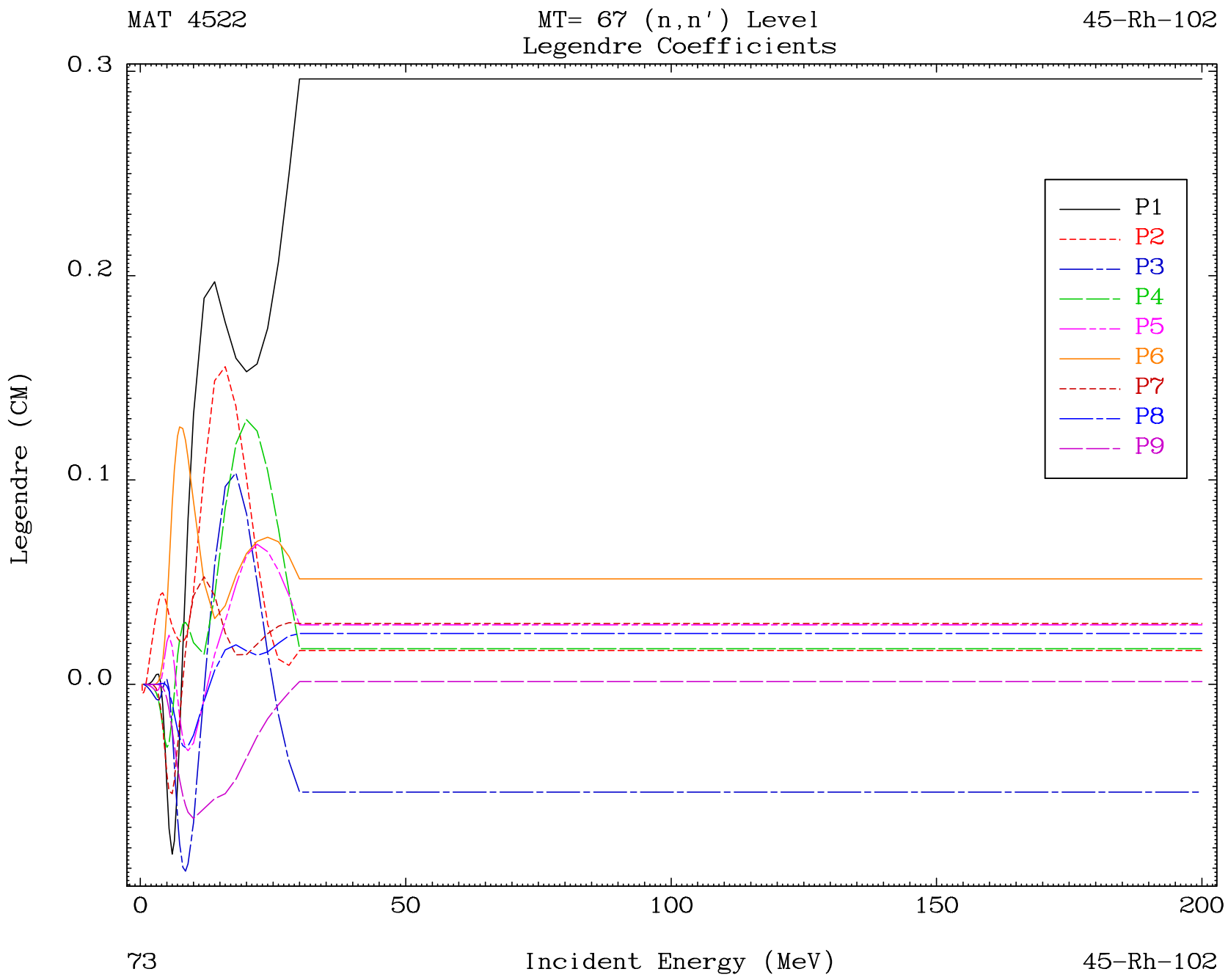

MAT 4522
MT= 65 (n,n') Level
Legendre Coefficients
45-Rh-102
P1
P2
P3
P4
P5
P6
P7
P8
0.02
0.01
0.00
-0.01
-0.02
-0.03
Legendre (CM)
0
50
100
150
200
68
Incident Energy (MeV)
45-Rh-102

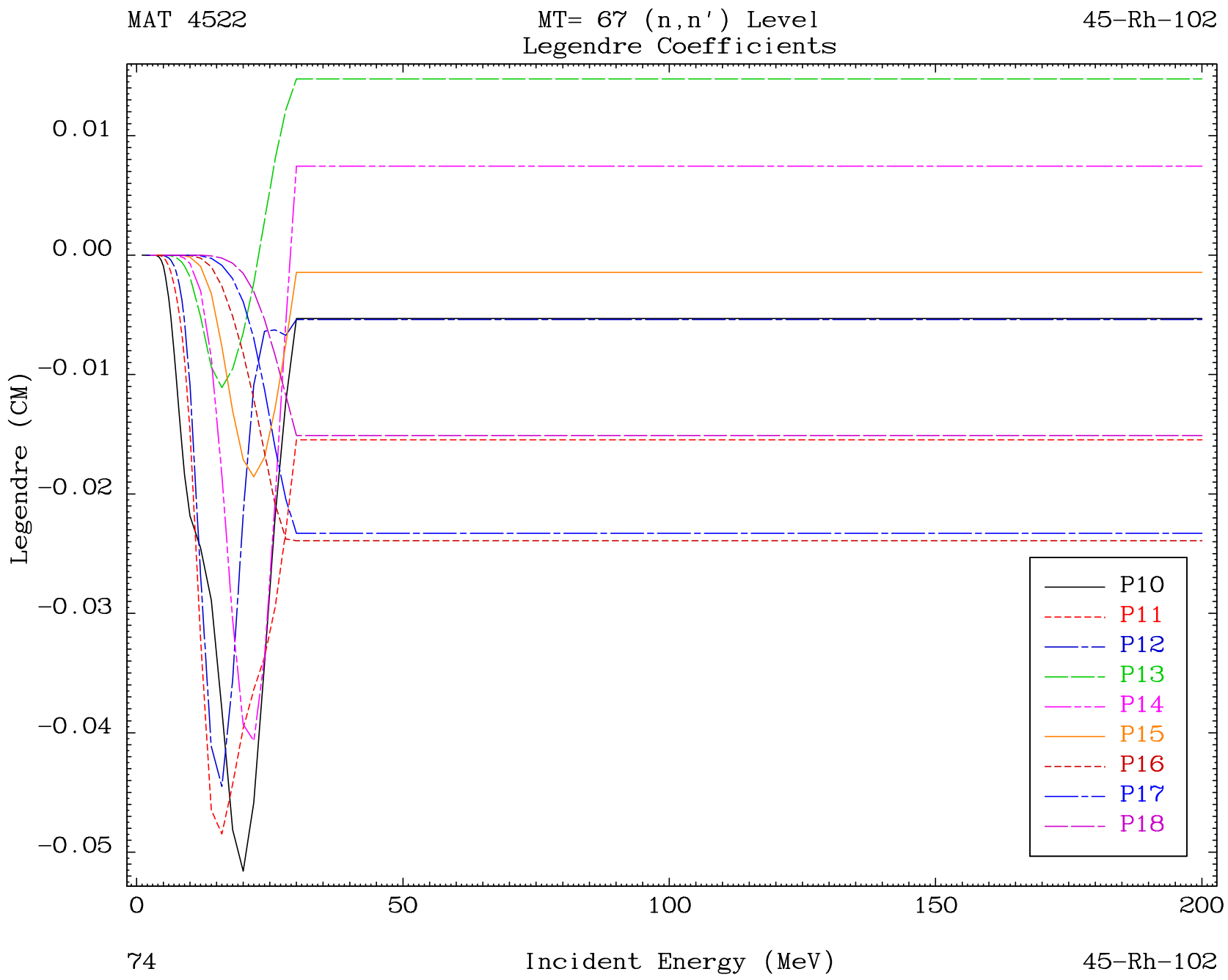

MAT 4522
MT= 65 (n,n') Level
Legendre Coefficients
45-Rh-102
X10^-4
2
1
0
-1
Legendre (CM)
0
50
100
150
200
Incident Energy (MeV)
69
45-Rh-102
P9
P10
P11
P12
P13
P14
P15
P16

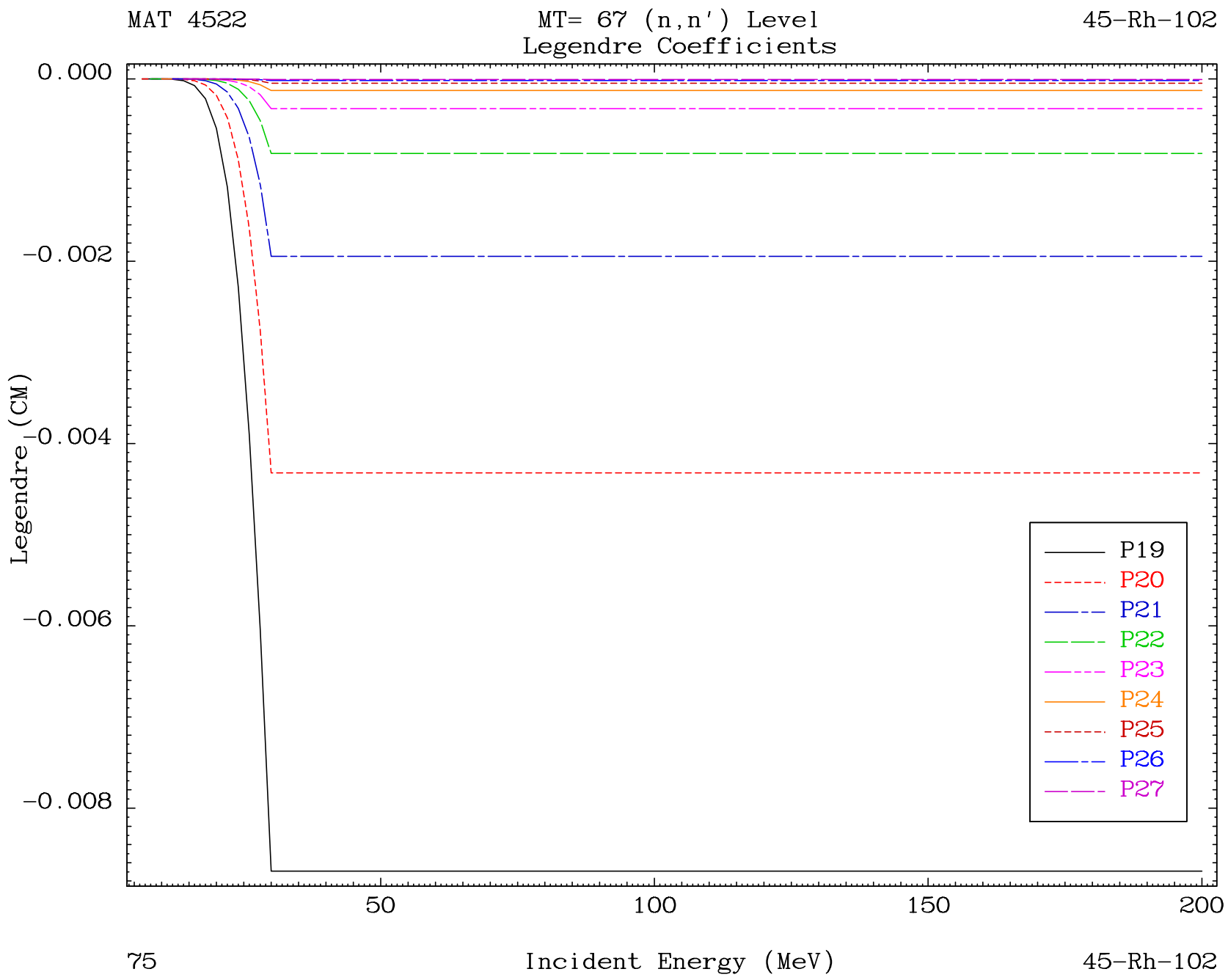

MAT 4522
MT= 65 (n,n') Level
Legendre Coefficients
45-Rh-102
X10^-6
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
50
100
150
200
70
Incident Energy (MeV)
45-Rh-102
P17
P18
P19
P20
P21
P22
P23
P24

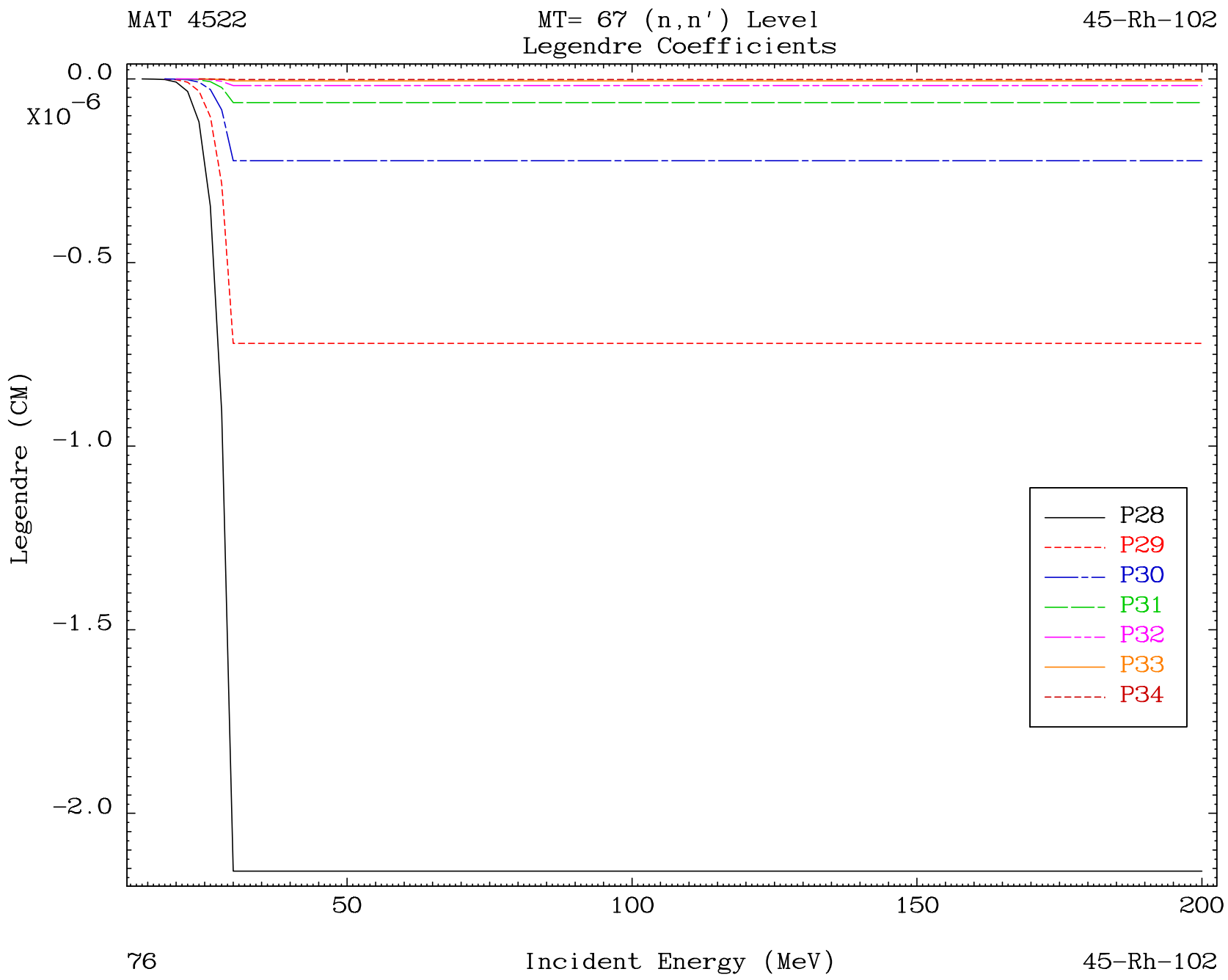

MAT 4522
MT= 66 (n,n') Level
Legendre Coefficients
45-Rh-102
0.15
0.10
0.05
0.00
Legendre (CM)
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
71
Incident Energy (MeV)
45-Rh-102

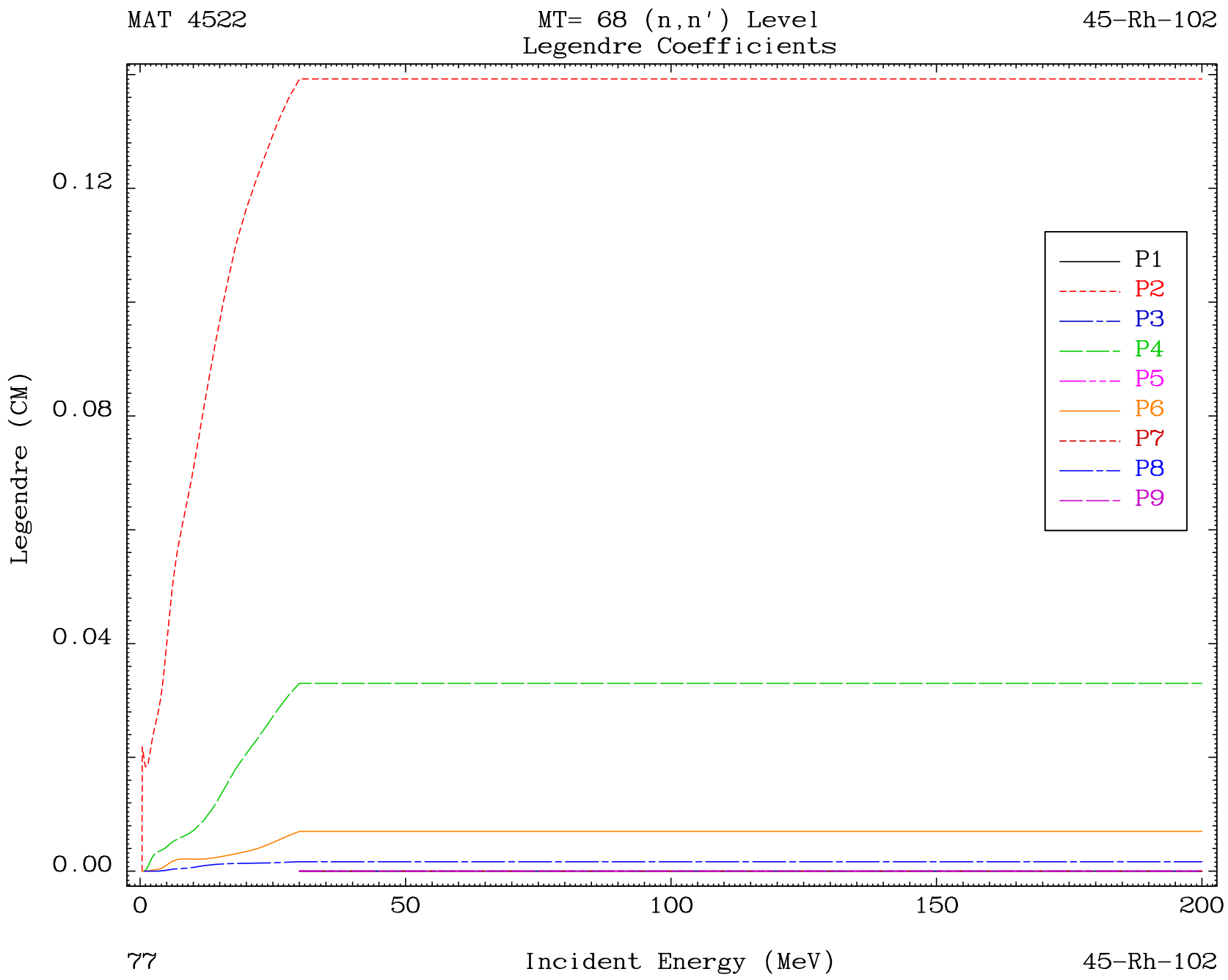

MAT 4522
MT= 66 (n,n') Level
Legendre Coefficients
45-Rh-102
X10^-4
0
-1
-2
-3
-4
Legendre (CM)
50
100
150
200
Incident Energy (MeV)
72
45-Rh-102
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20

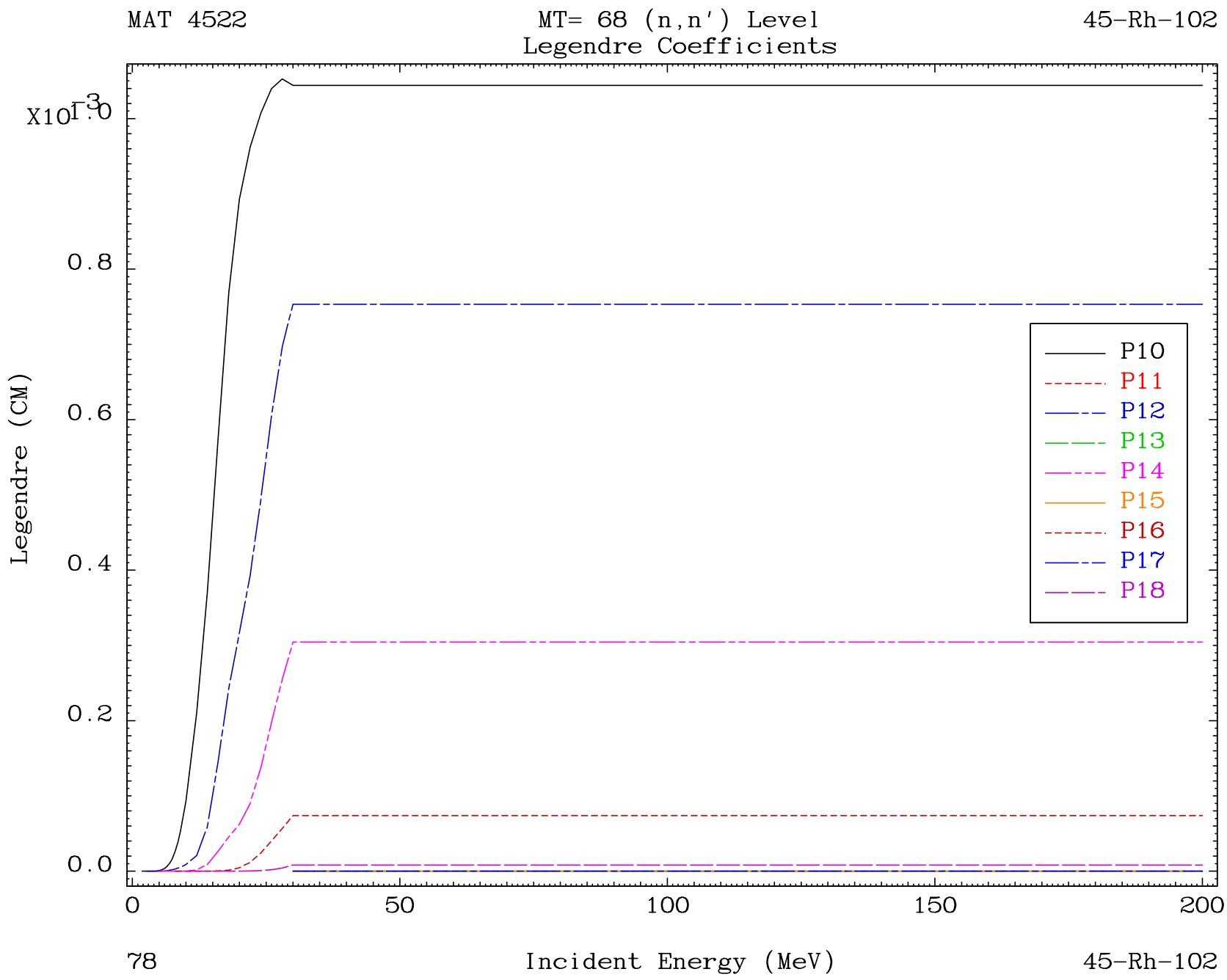

MAT 4522
MT= 67 (n,n') Level
Legendre Coefficients
45-Rh-102
0.3
0.2
0.1
0.0
Legendre (CM)
0
50
100
150
200
Incident Energy (MeV)
73
45-Rh-102
P1
P2
P3
P4
P5
P6
P7
P8
P9

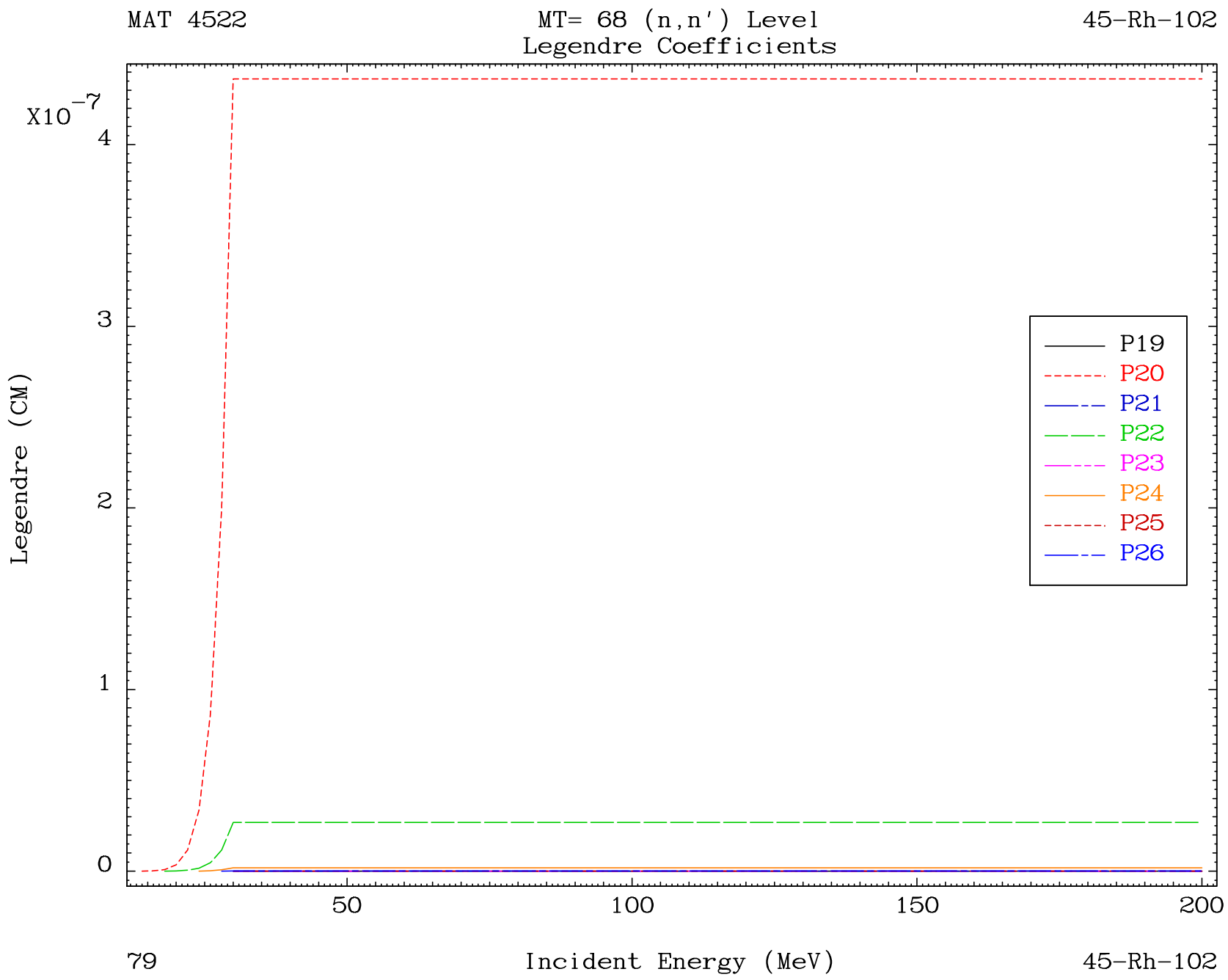

MAT 4522
MT= 67 (n,n') Level
Legendre Coefficients
45-Rh-102
0.01
0.00
-0.01
-0.02
-0.03
-0.04
-0.05
Legendre (CM)
0
50
100
150
200
74
Incident Energy (MeV)
45-Rh-102
P10
P11
P12
P13
P14
P15
P16
P17
P18

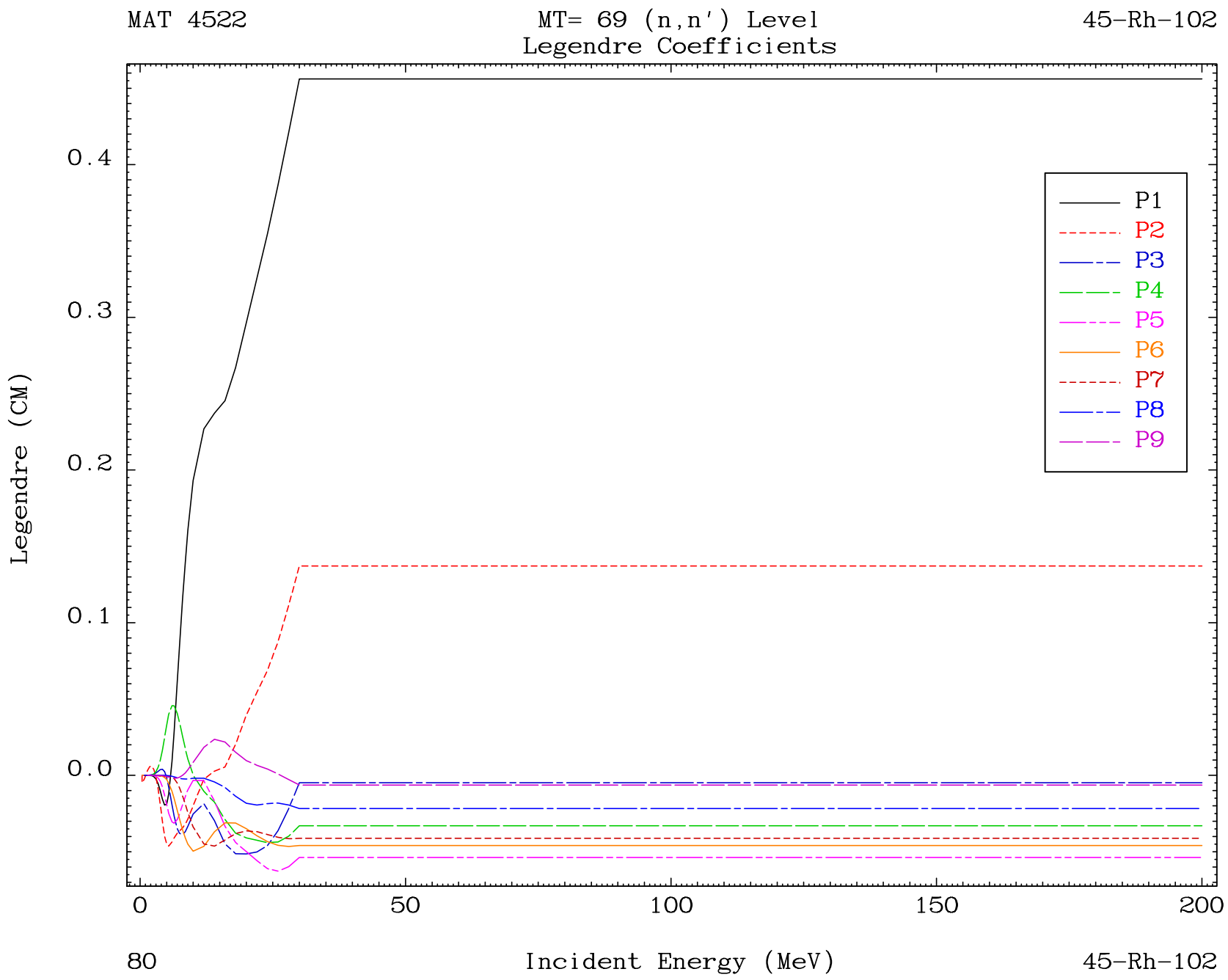

MAT 4522
MT= 67 (n,n') Level
Legendre Coefficients
45-Rh-102
0.000
-0.002
-0.004
-0.006
-0.008
Legendre (CM)
50
100
150
200
75
Incident Energy (MeV)
45-Rh-102
P19
P20
P21
P22
P23
P24
P25
P26
P27

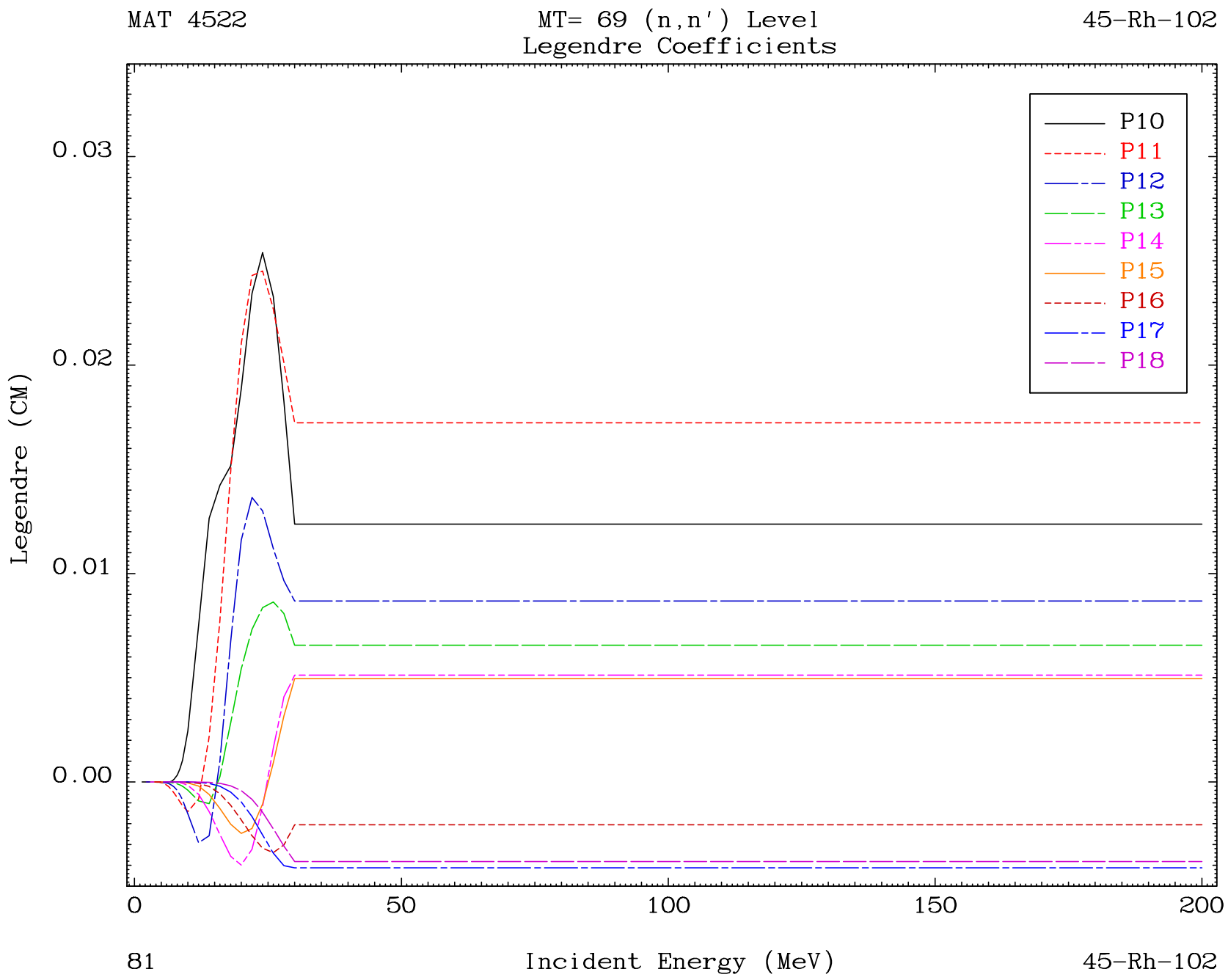

MAT 4522
MT= 67 (n,n') Level
Legendre Coefficients
45-Rh-102
0.0
X10^-6
-0.5
-1.0
-1.5
-2.0
Legendre (CM)
50
100
150
200
76
Incident Energy (MeV)
45-Rh-102
P28
P29
P30
P31
P32
P33
P34

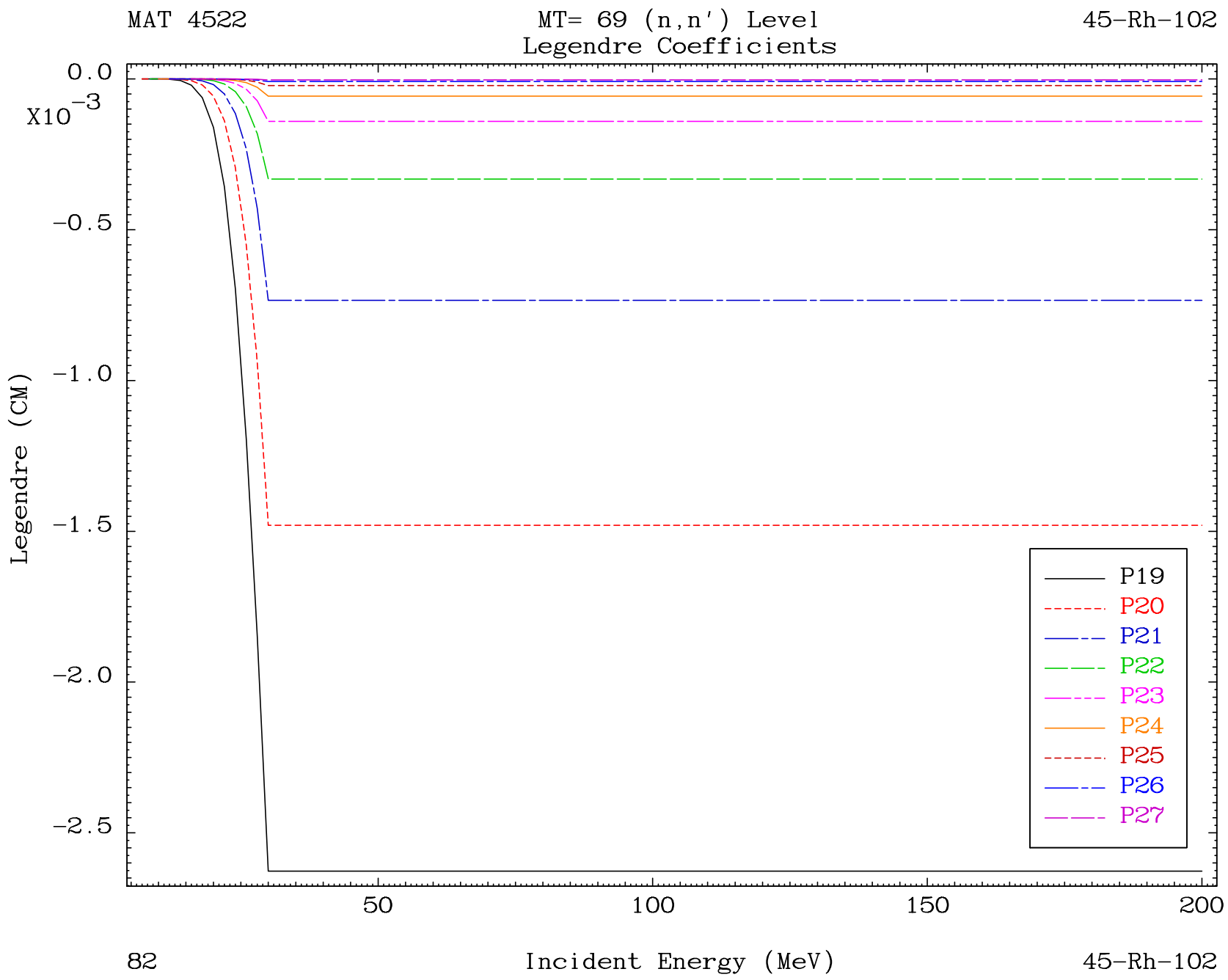

MAT 4522
MT= 68 (n,n') Level
Legendre Coefficients
45-Rh-102
0.12
0.08
0.04
0.00
Legendre (CM)
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
77
Incident Energy (MeV)
45-Rh-102

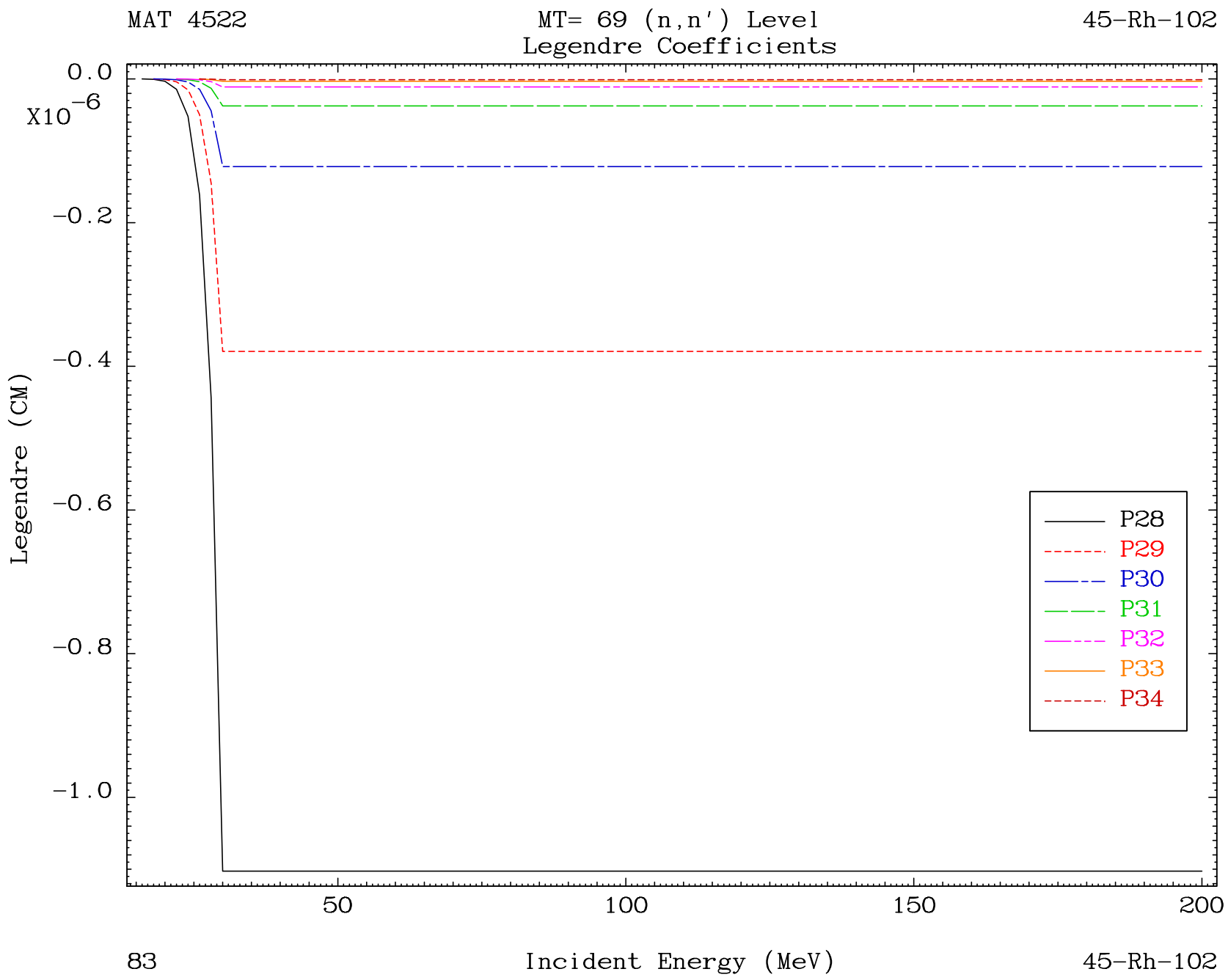

MAT 4522
MT= 68 (n,n') Level
Legendre Coefficients
45-Rh-102
X10[-3]
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
0
50
100
150
200
P10
P11
P12
P13
P14
P15
P16
P17
P18
78
Incident Energy (MeV)
45-Rh-102

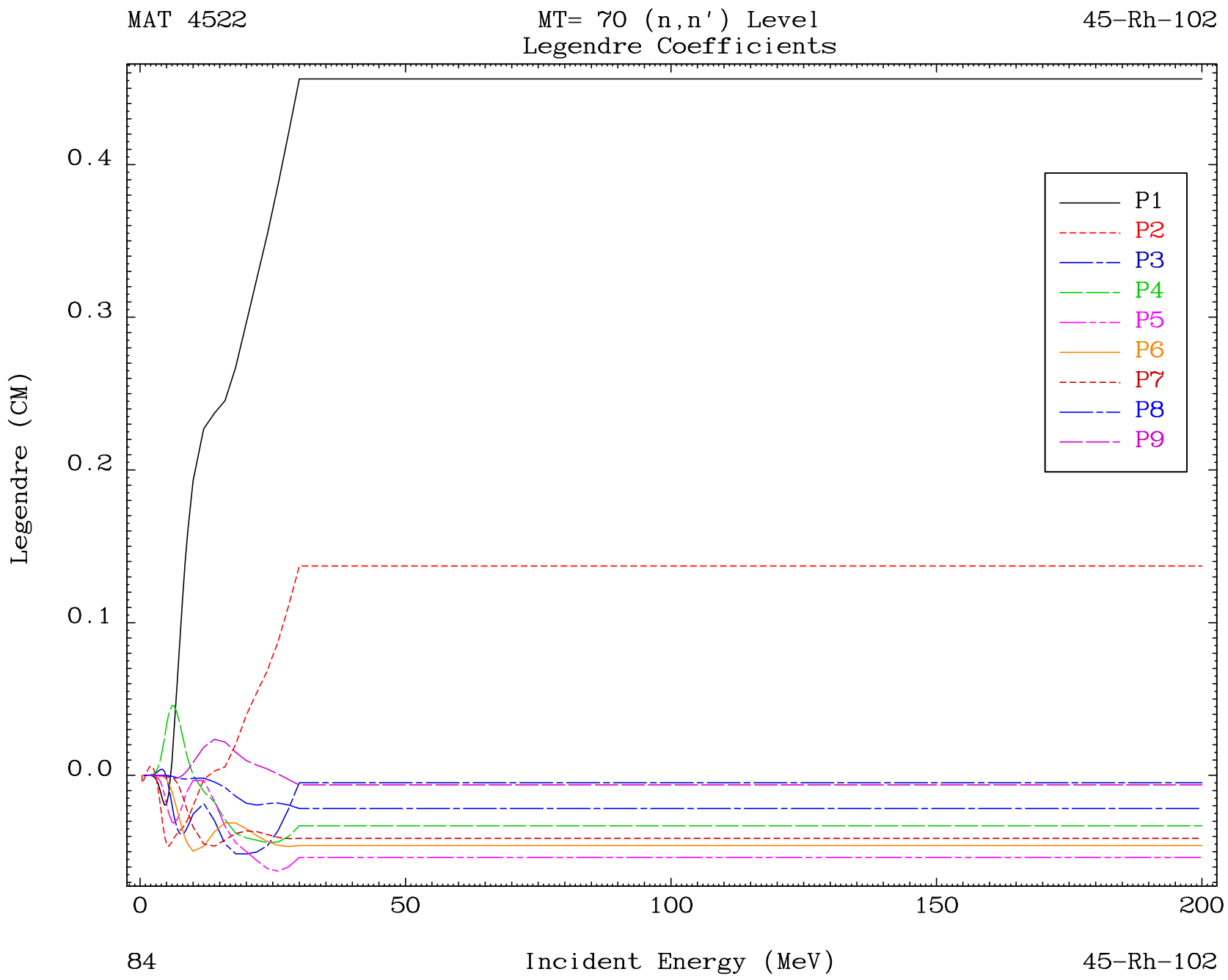

MAT 4522
MT= 68 (n,n') Level
Legendre Coefficients
45-Rh-102
X10^-7
4
3
2
1
0
Legendre (CM)
50
100
150
200
Incident Energy (MeV)
79
45-Rh-102
P19
P20
P21
P22
P23
P24
P25
P26

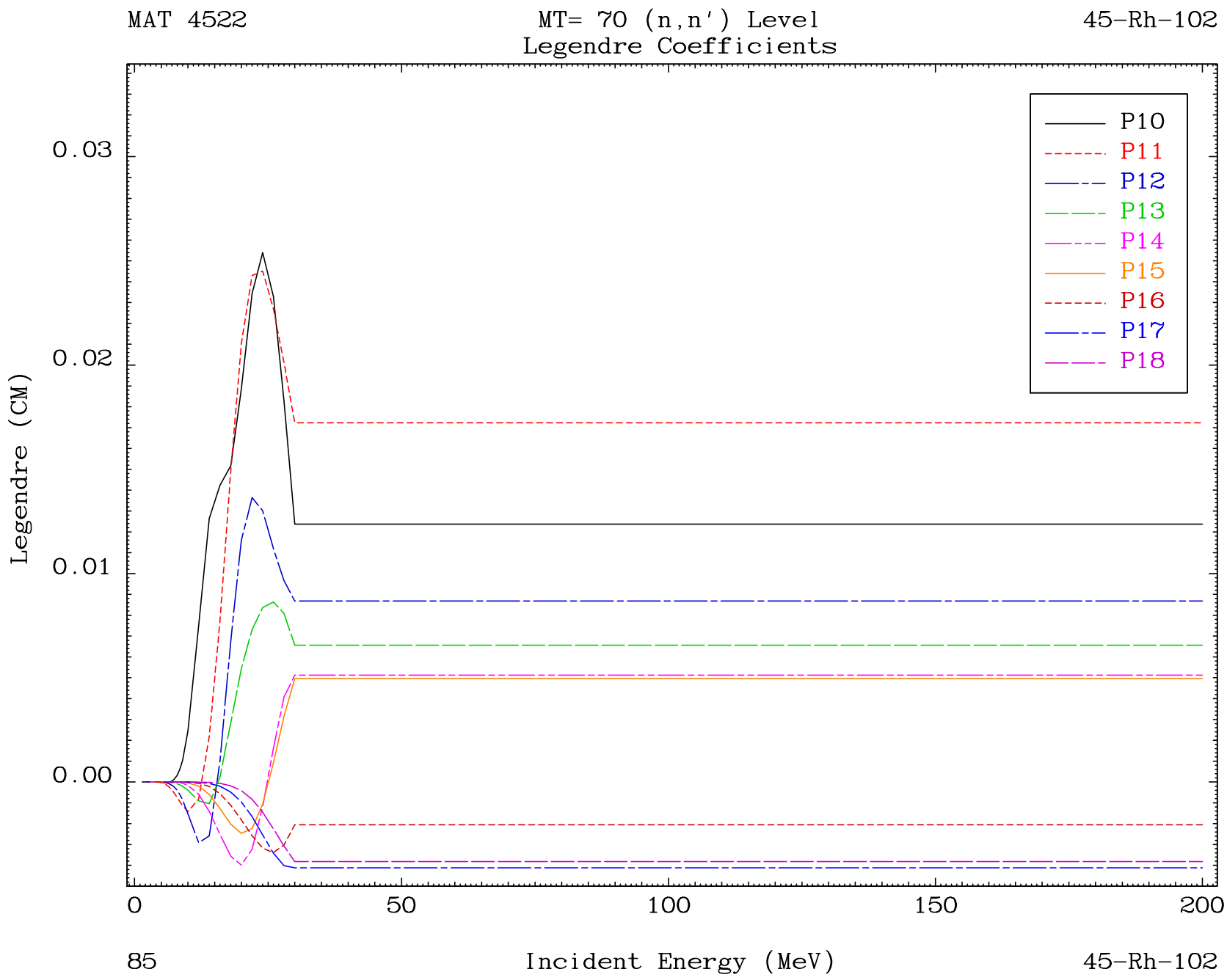

MAT 4522
MT= 69 (n,n') Level
Legendre Coefficients
45-Rh-102
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
80
Incident Energy (MeV)
45-Rh-102
P1
P2
P3
P4
P5
P6
P7
P8
P9

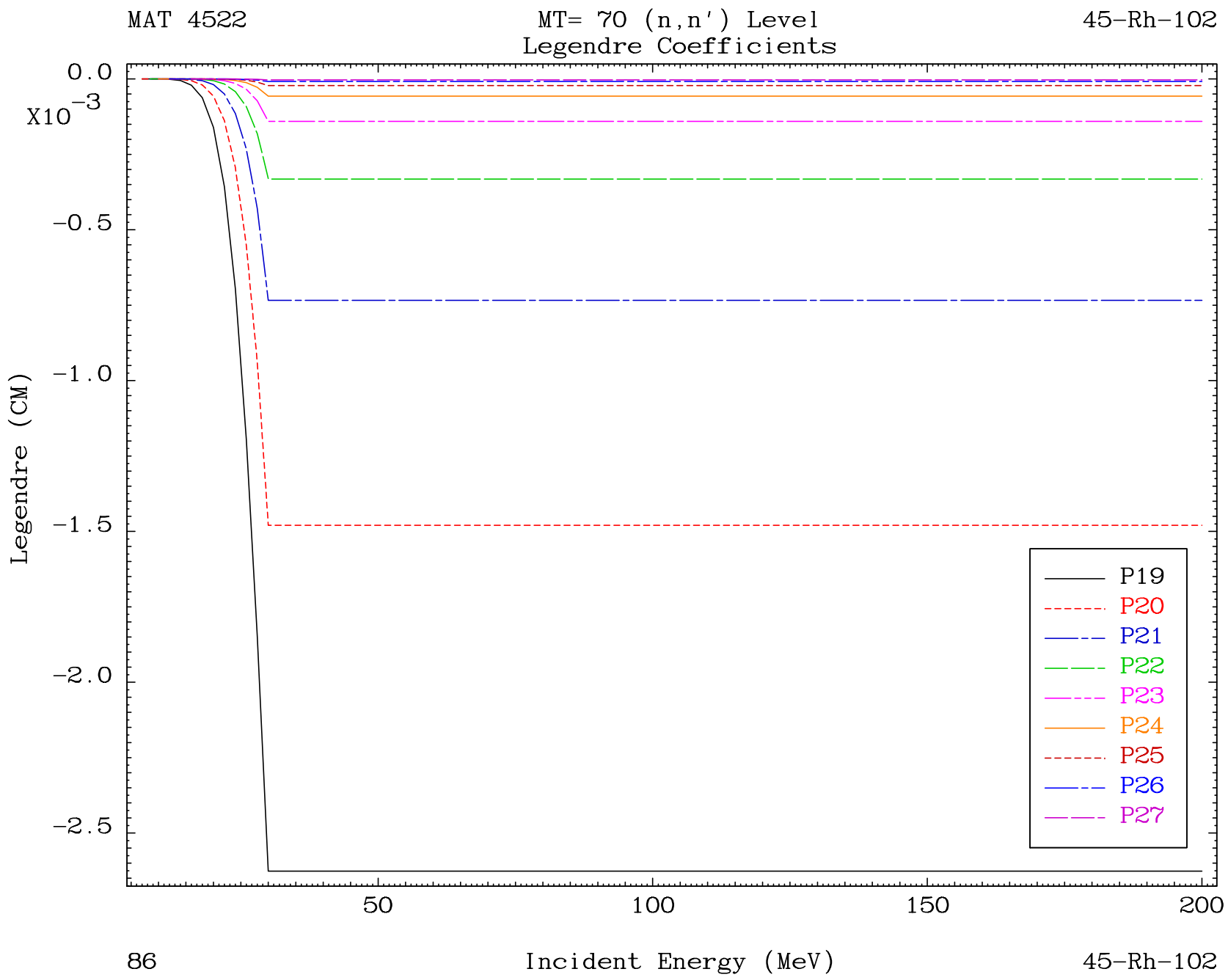

MAT 4522
MT= 69 (n,n') Level
Legendre Coefficients
45-Rh-102
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.03
0.02
0.01
0.00
Legendre (CM)
0
50
100
150
200
81
Incident Energy (MeV)
45-Rh-102

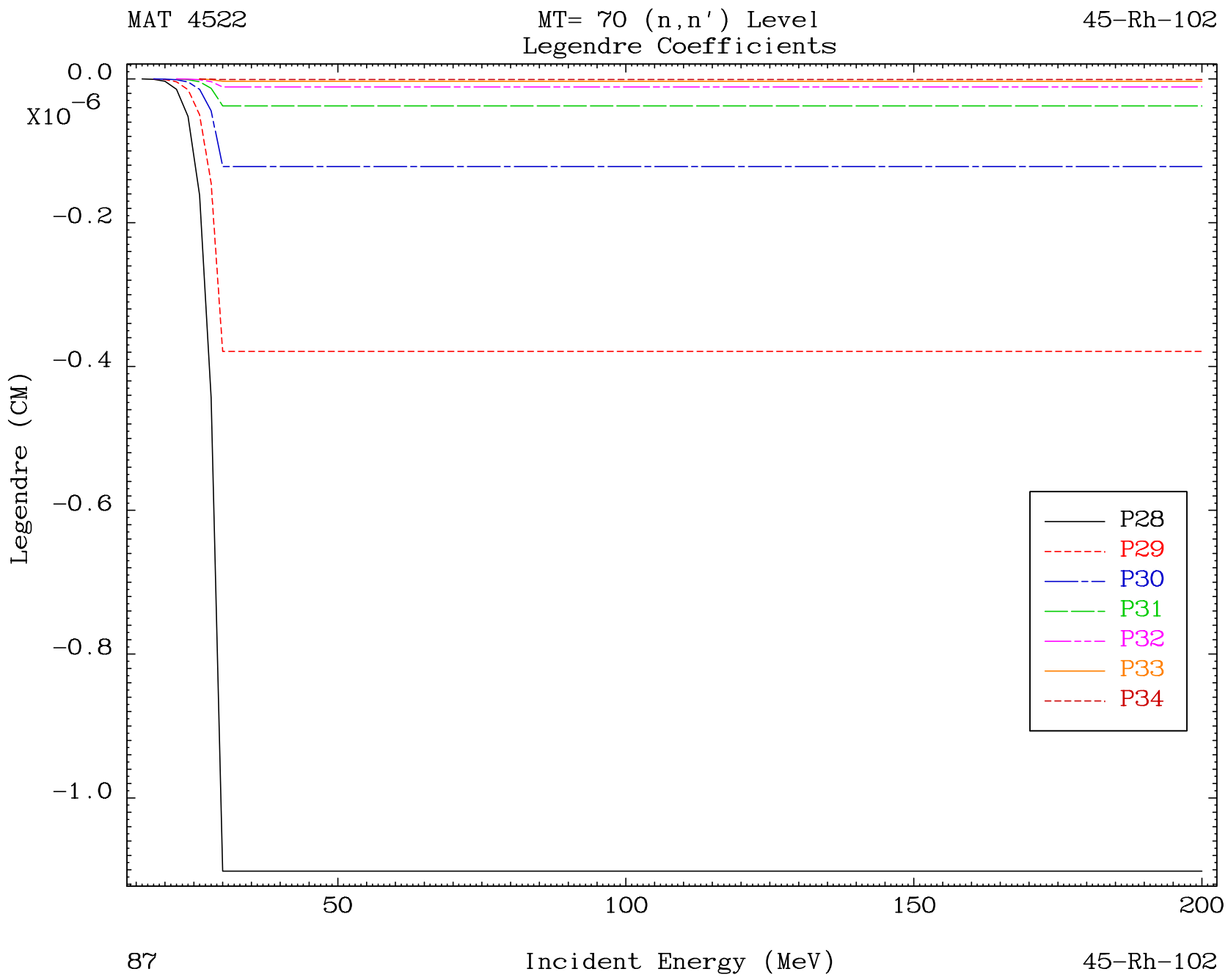

MAT 4522
MT= 69 (n,n') Level
Legendre Coefficients
45-Rh-102
0.0
X10^-3
-0.5
-1.0
-1.5
-2.0
-2.5
Legendre (CM)
50
100
150
200
82
Incident Energy (MeV)
45-Rh-102
P19
P20
P21
P22
P23
P24
P25
P26
P27

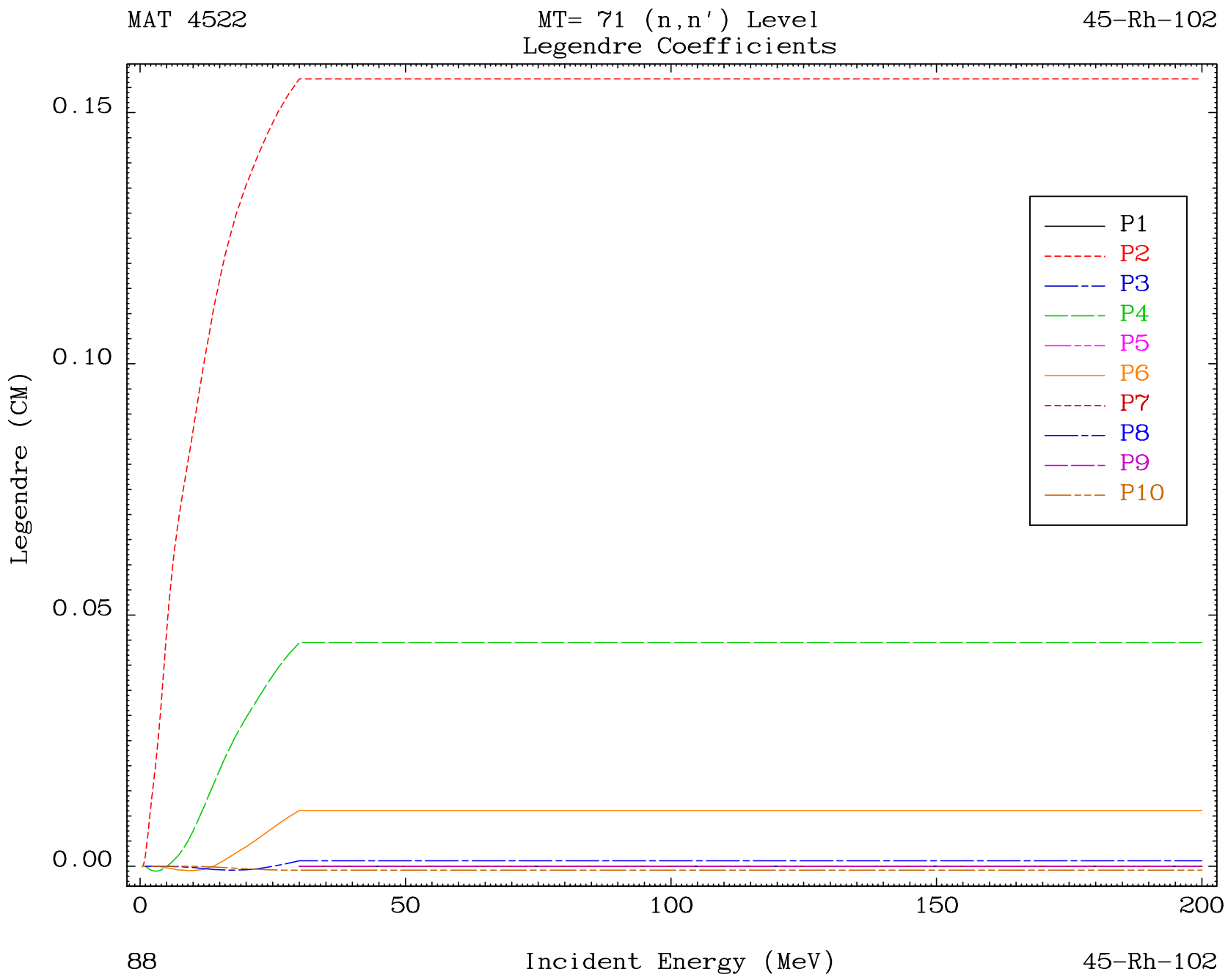

MAT 4522
MT= 69 (n,n') Level
Legendre Coefficients
45-Rh-102
0.0
X10^-6
-0.2
-0.4
-0.6
-0.8
-1.0
Legendre (CM)
50
100
150
200
83
Incident Energy (MeV)
45-Rh-102
P28
P29
P30
P31
P32
P33
P34

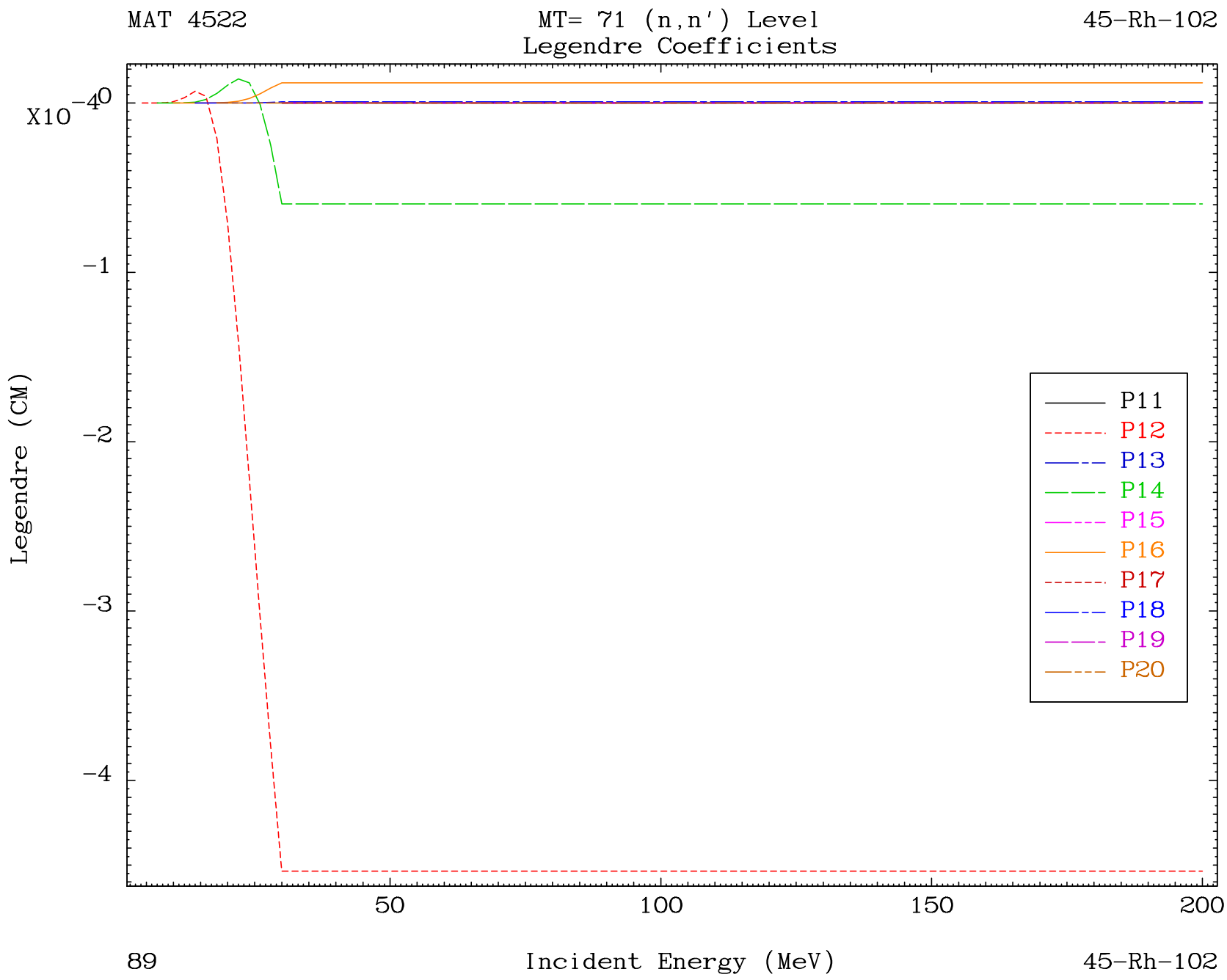

MAT 4522
MT= 70 (n,n') Level
Legendre Coefficients
45-Rh-102
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
84
Incident Energy (MeV)
45-Rh-102

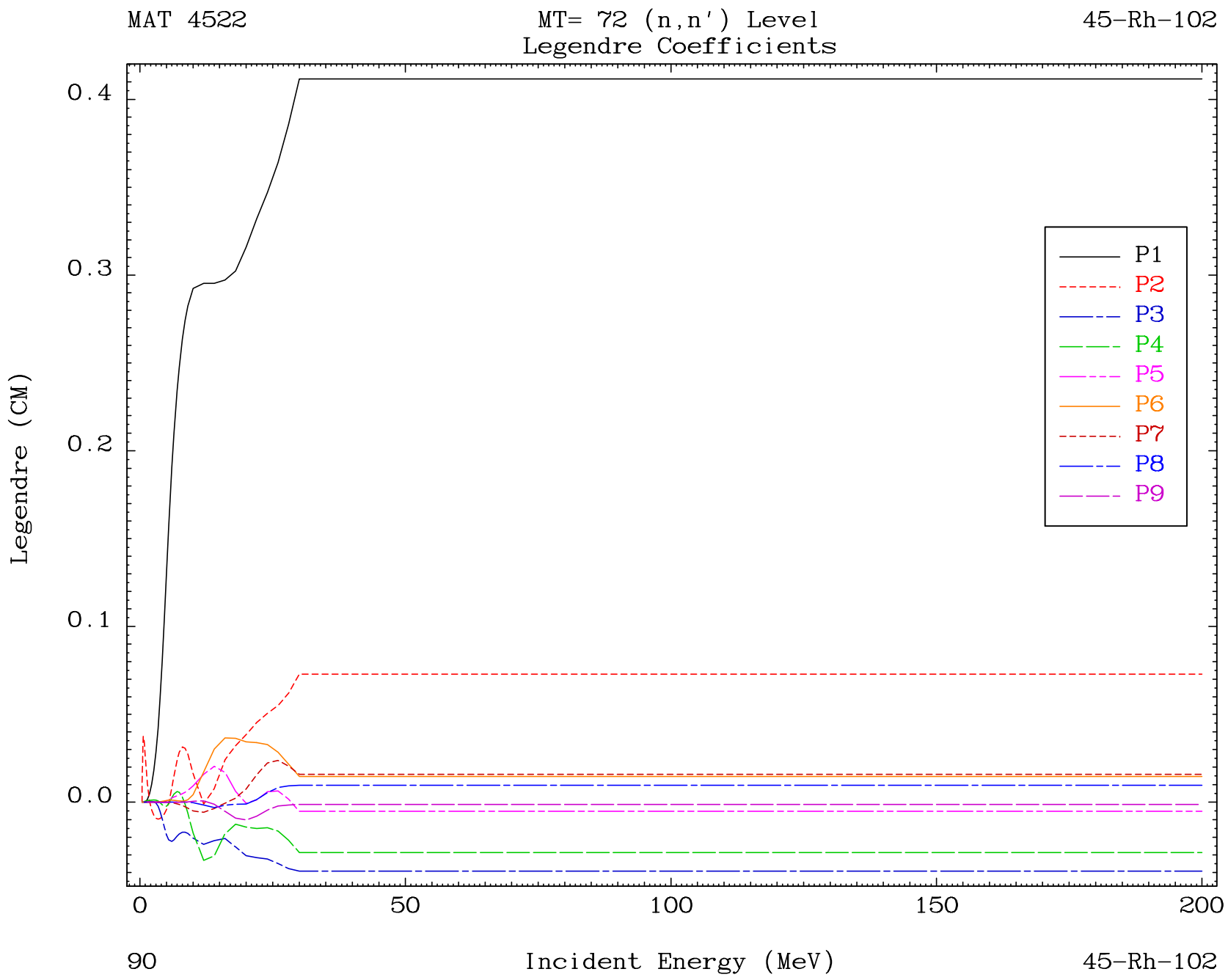

MAT 4522
MT= 70 (n,n') Level
Legendre Coefficients
45-Rh-102
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.03
0.02
0.01
0.00
Legendre (CM)
0
50
100
150
200
85
Incident Energy (MeV)
45-Rh-102

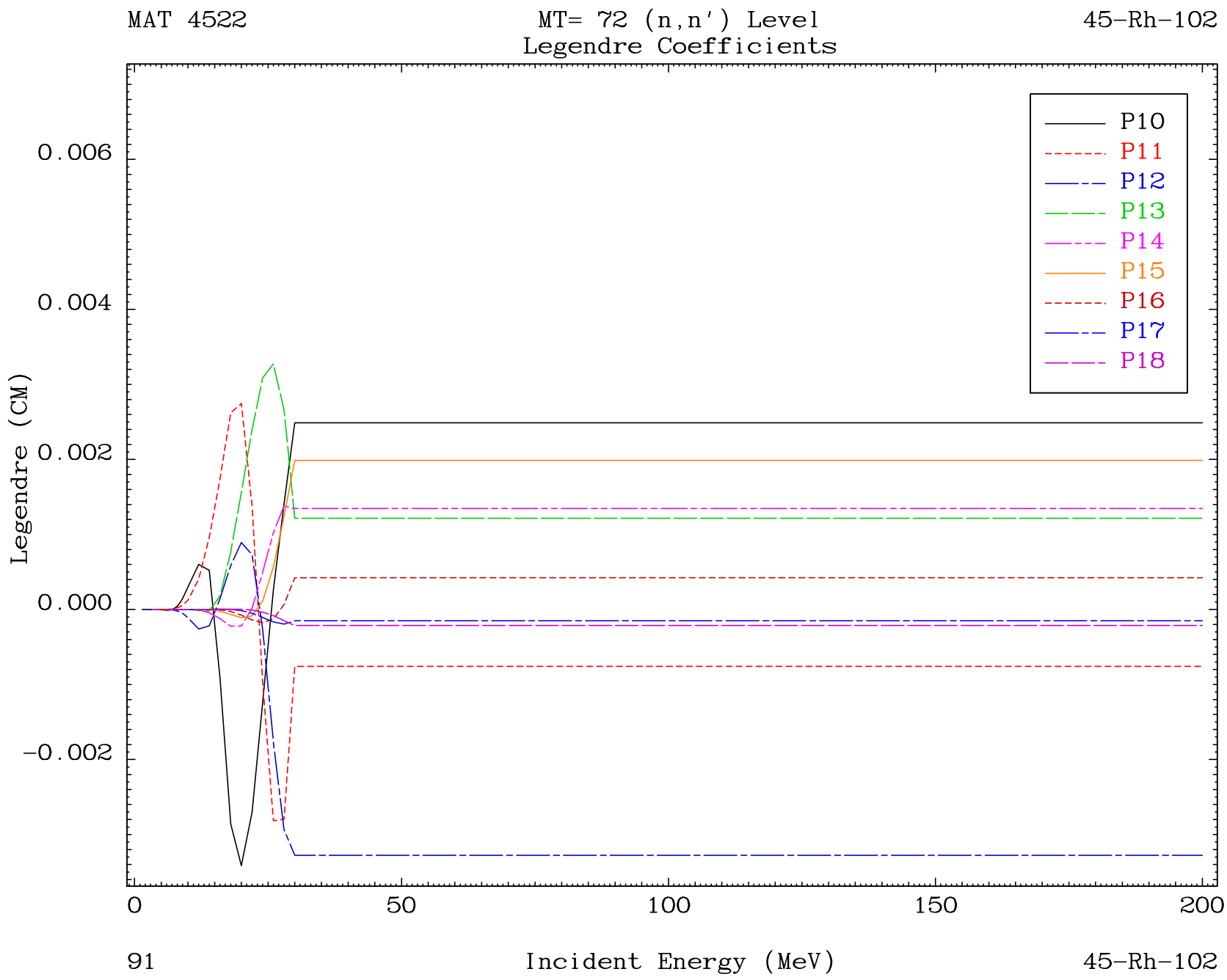

MAT 4522
MT= 70 (n,n') Level
Legendre Coefficients
45-Rh-102
0.0
X10^-3
-0.5
-1.0
-1.5
-2.0
-2.5
Legendre (CM)
50
100
150
200
86
Incident Energy (MeV)
45-Rh-102
P19
P20
P21
P22
P23
P24
P25
P26
P27

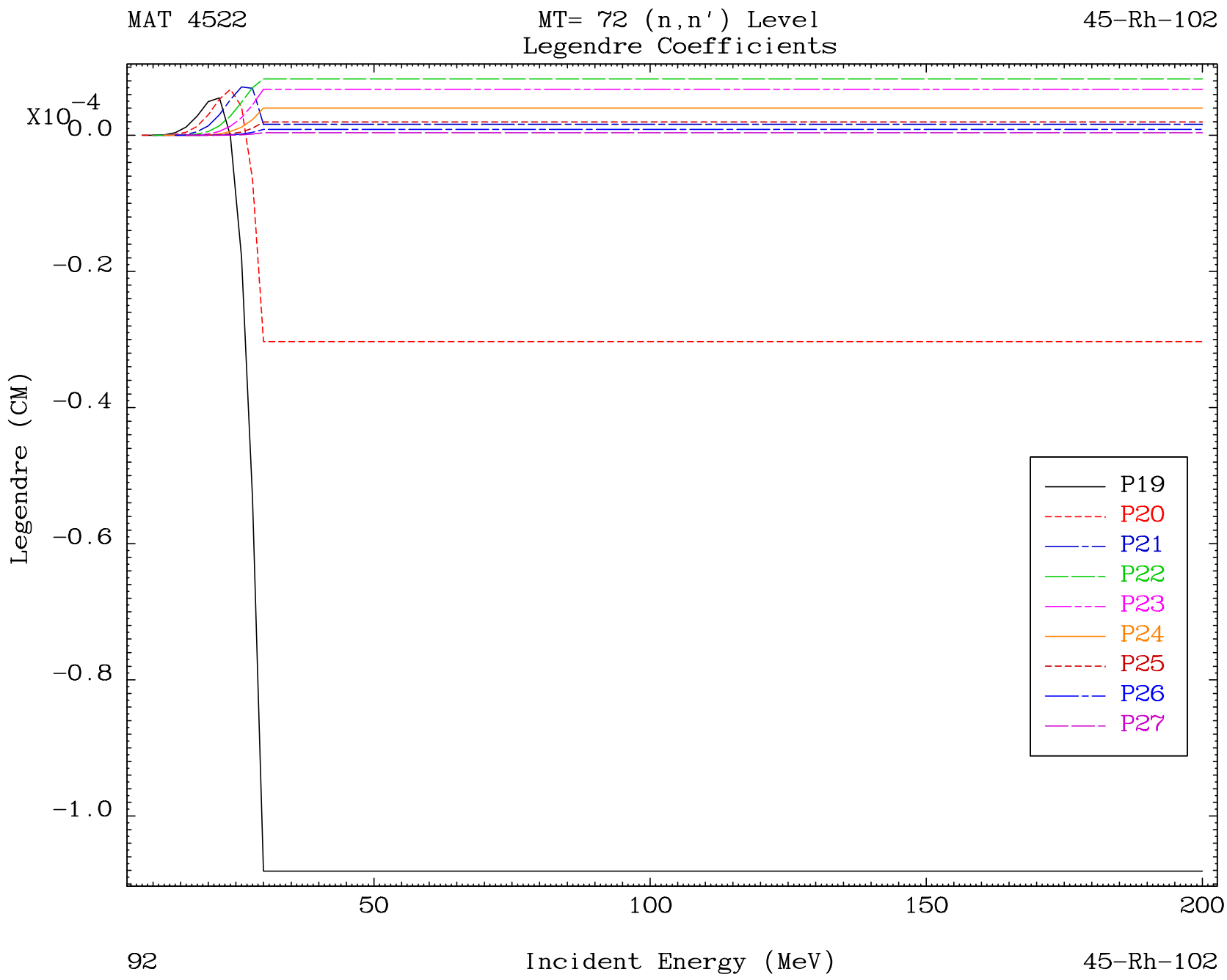

MAT 4522
MT= 70 (n,n') Level
Legendre Coefficients
45-Rh-102
0.0
X10^-6
-0.2
-0.4
-0.6
-0.8
-1.0
Legendre (CM)
50
100
150
200
87
Incident Energy (MeV)
45-Rh-102
P28
P29
P30
P31
P32
P33
P34

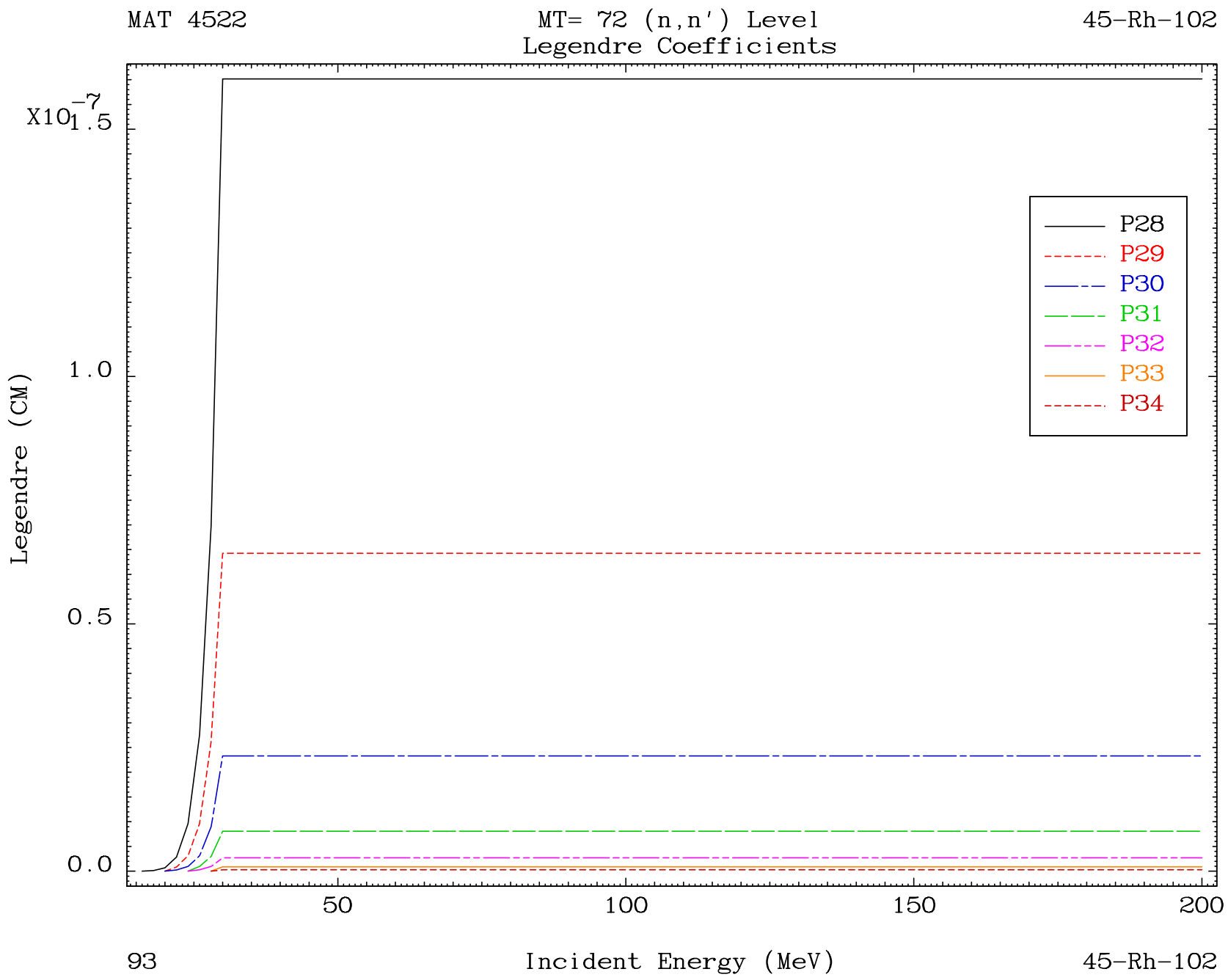

MAT 4522
MT= 71 (n,n') Level
Legendre Coefficients
45-Rh-102
0.15
0.10
0.05
0.00
Legendre (CM)
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
88
Incident Energy (MeV)
45-Rh-102

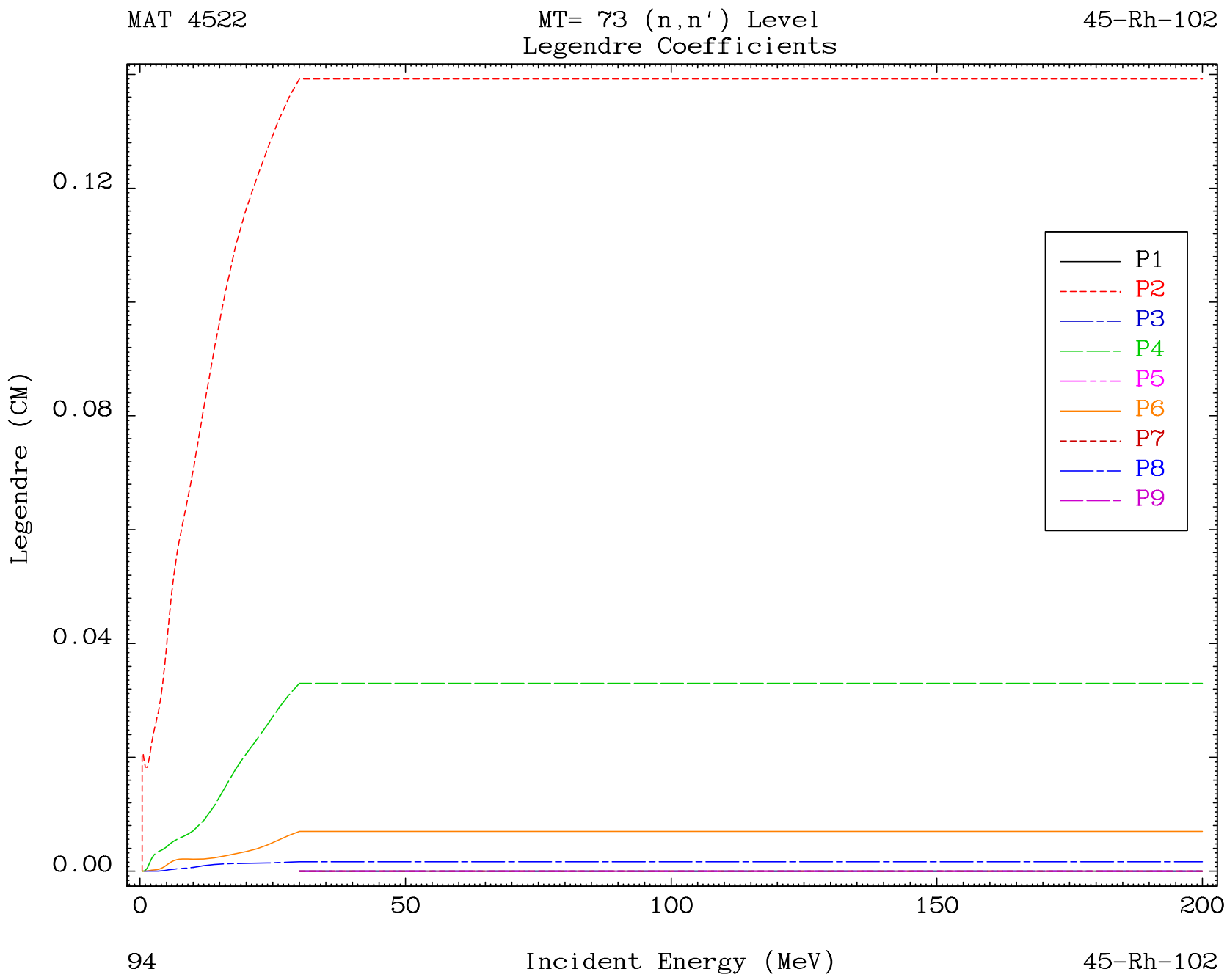

MAT 4522
MT= 71 (n,n') Level
Legendre Coefficients
45-Rh-102
X10^-4
0
-1
-2
-3
-4
Legendre (CM)
50
100
150
200
Incident Energy (MeV)
89
45-Rh-102
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20

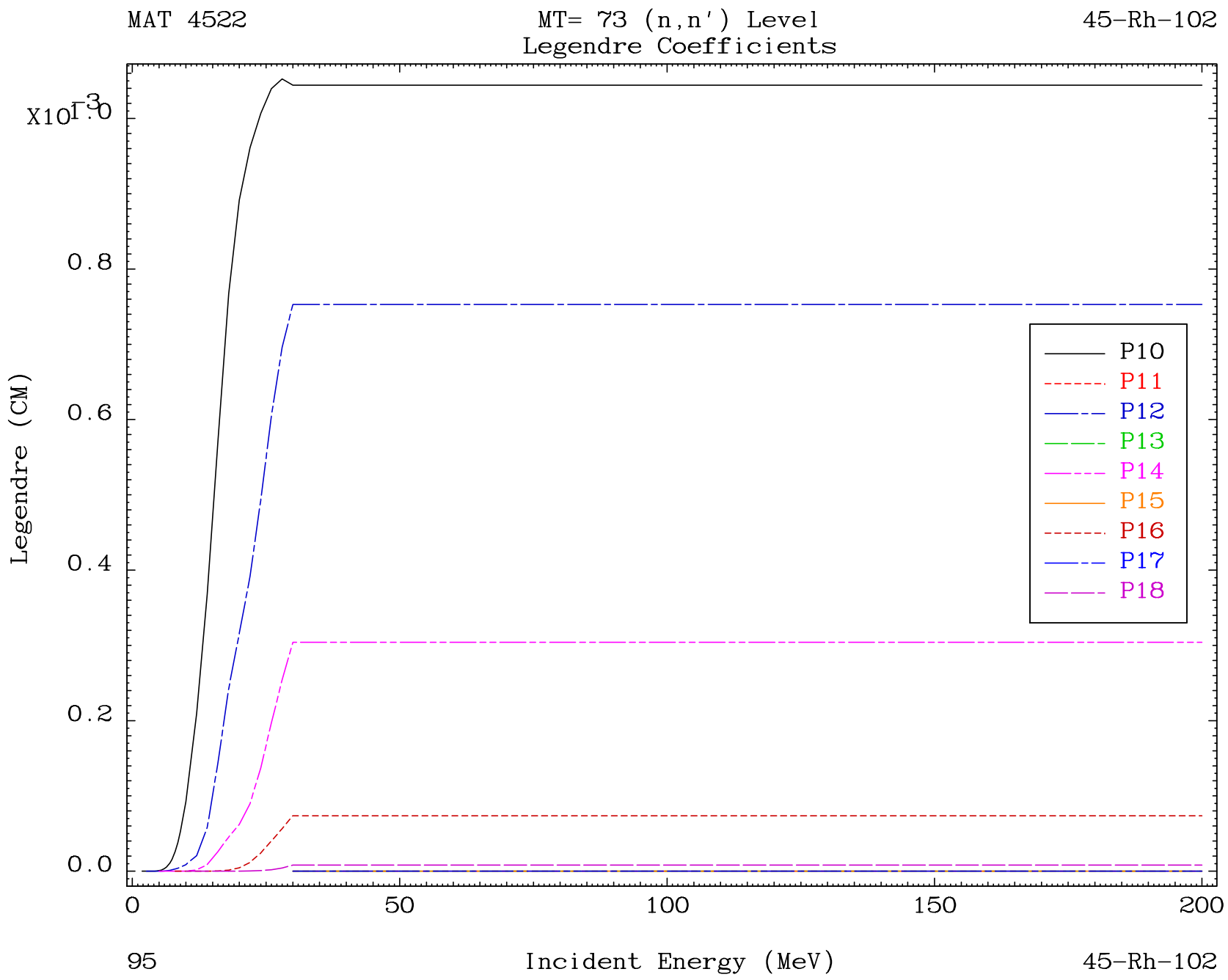

MAT 4522
MT= 72 (n,n') Level
Legendre Coefficients
45-Rh-102
0.4
0.3
0.2
0.1
0.0
Legendre (CM)
0
50
100
150
200
90
Incident Energy (MeV)
45-Rh-102
P1
P2
P3
P4
P5
P6
P7
P8
P9

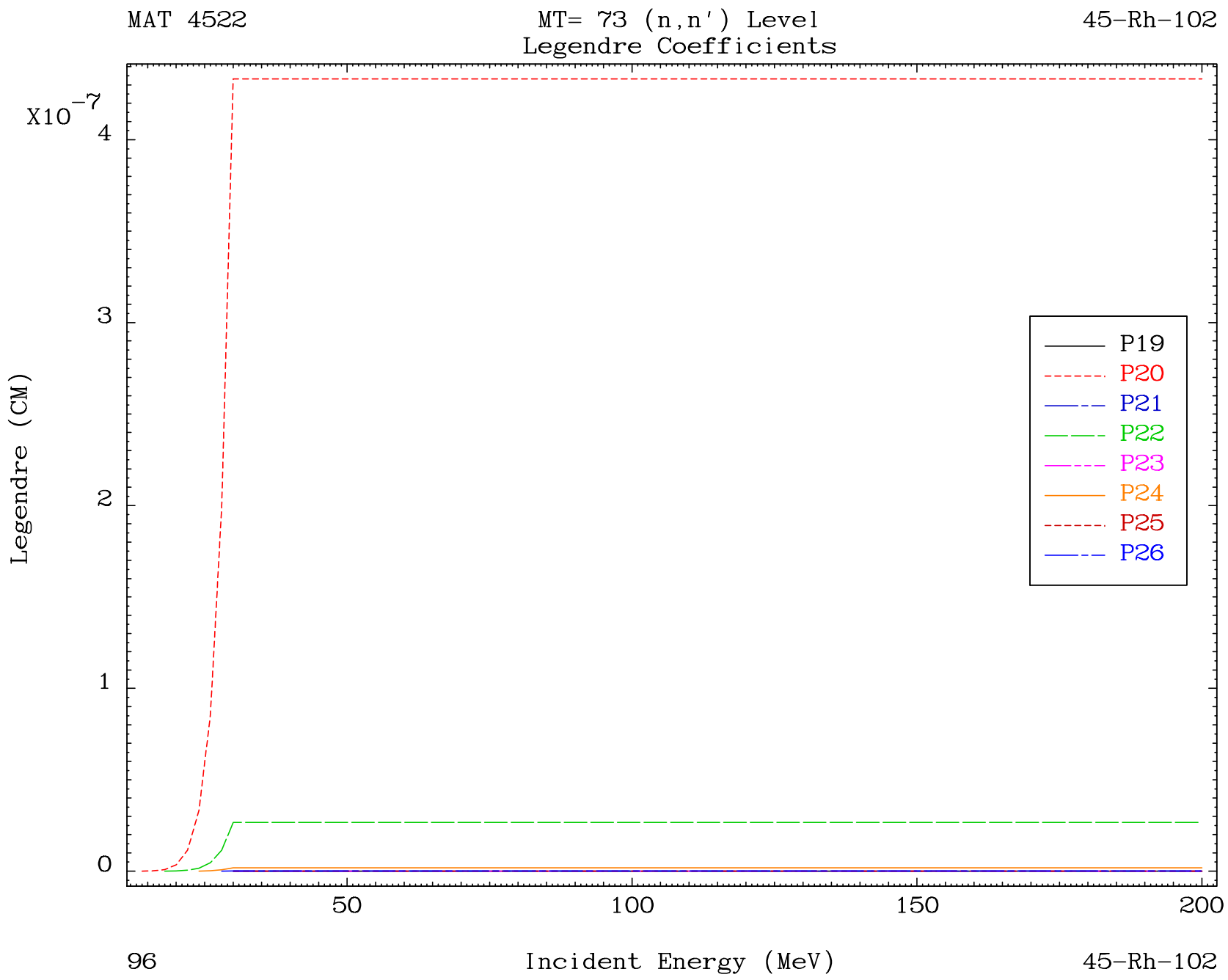

MAT 4522
MT= 72 (n,n') Level
Legendre Coefficients
45-Rh-102
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.006
0.004
0.002
0.000
-0.002
Legendre (CM)
0
50
100
150
200
91
Incident Energy (MeV)
45-Rh-102

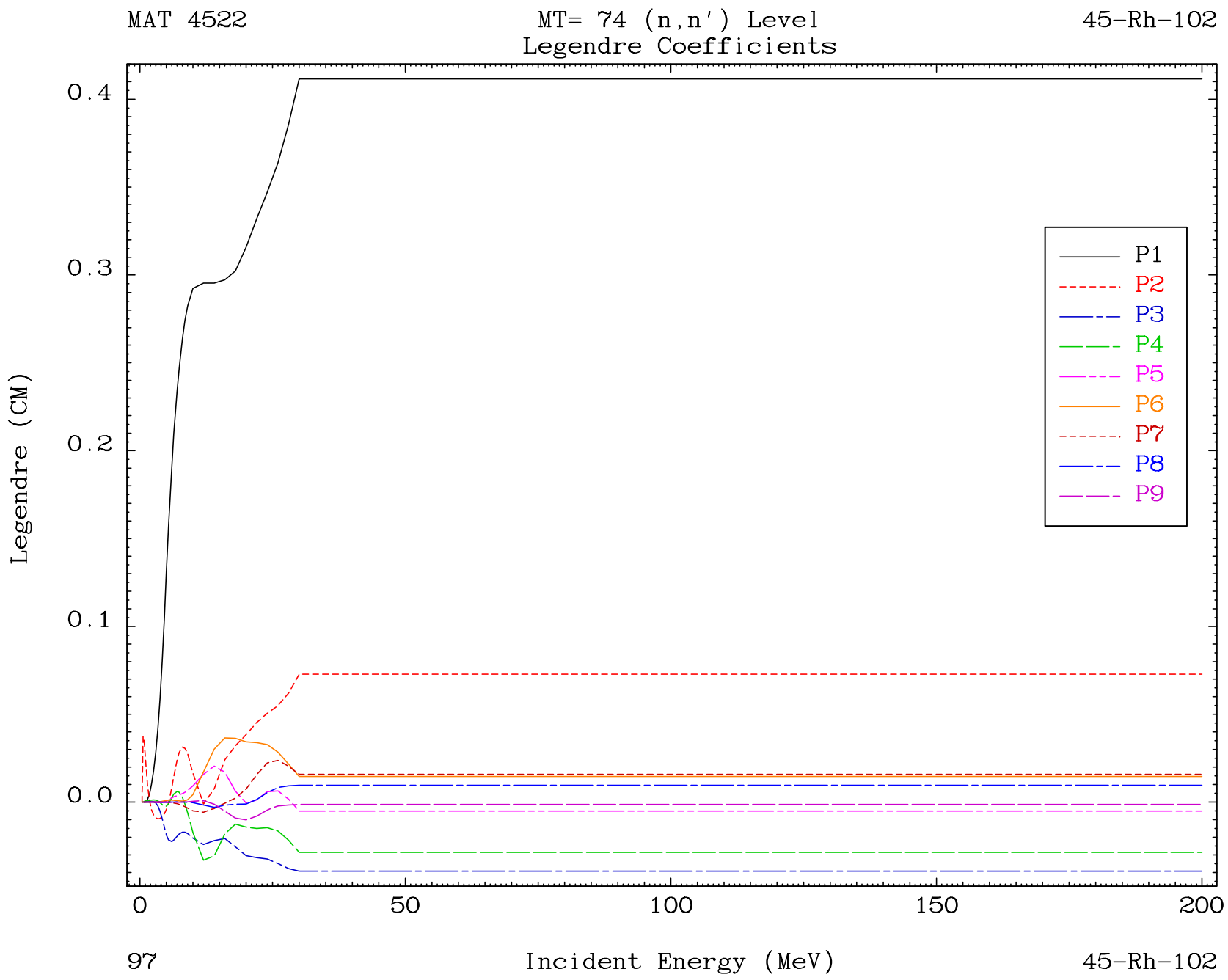

MAT 4522
MT= 72 (n,n') Level
Legendre Coefficients
45-Rh-102
X10^-4
0.0
-0.2
-0.4
-0.6
-0.8
-1.0
Legendre (CM)
50
100
150
200
92
Incident Energy (MeV)
45-Rh-102
P19
P20
P21
P22
P23
P24
P25
P26
P27

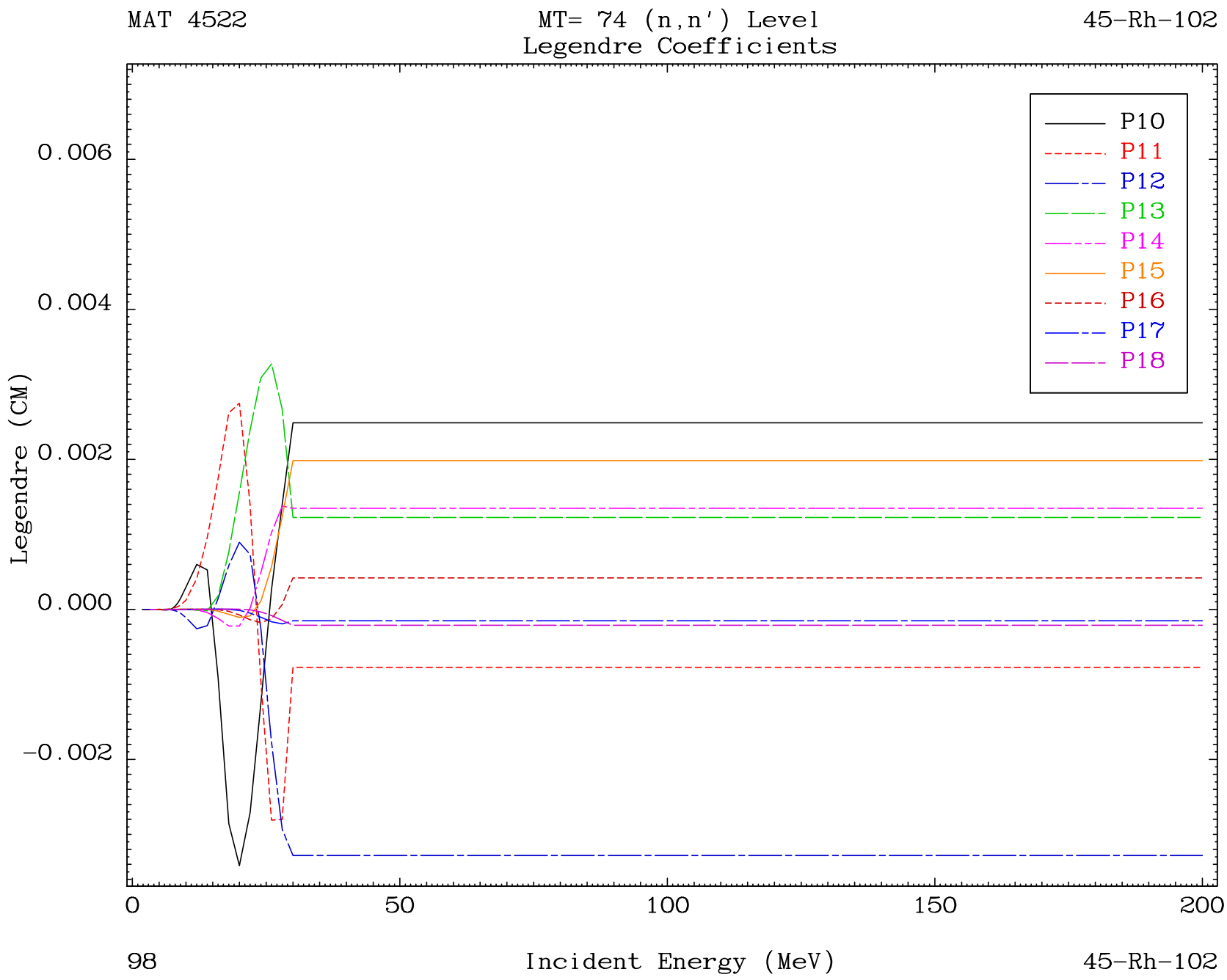

MAT 4522
MT= 72 (n,n') Level
Legendre Coefficients
45-Rh-102
X10^-7
1.5
1.0
0.5
0.0
Legendre (CM)
50
100
150
200
93
Incident Energy (MeV)
45-Rh-102
P28
P29
P30
P31
P32
P33
P34

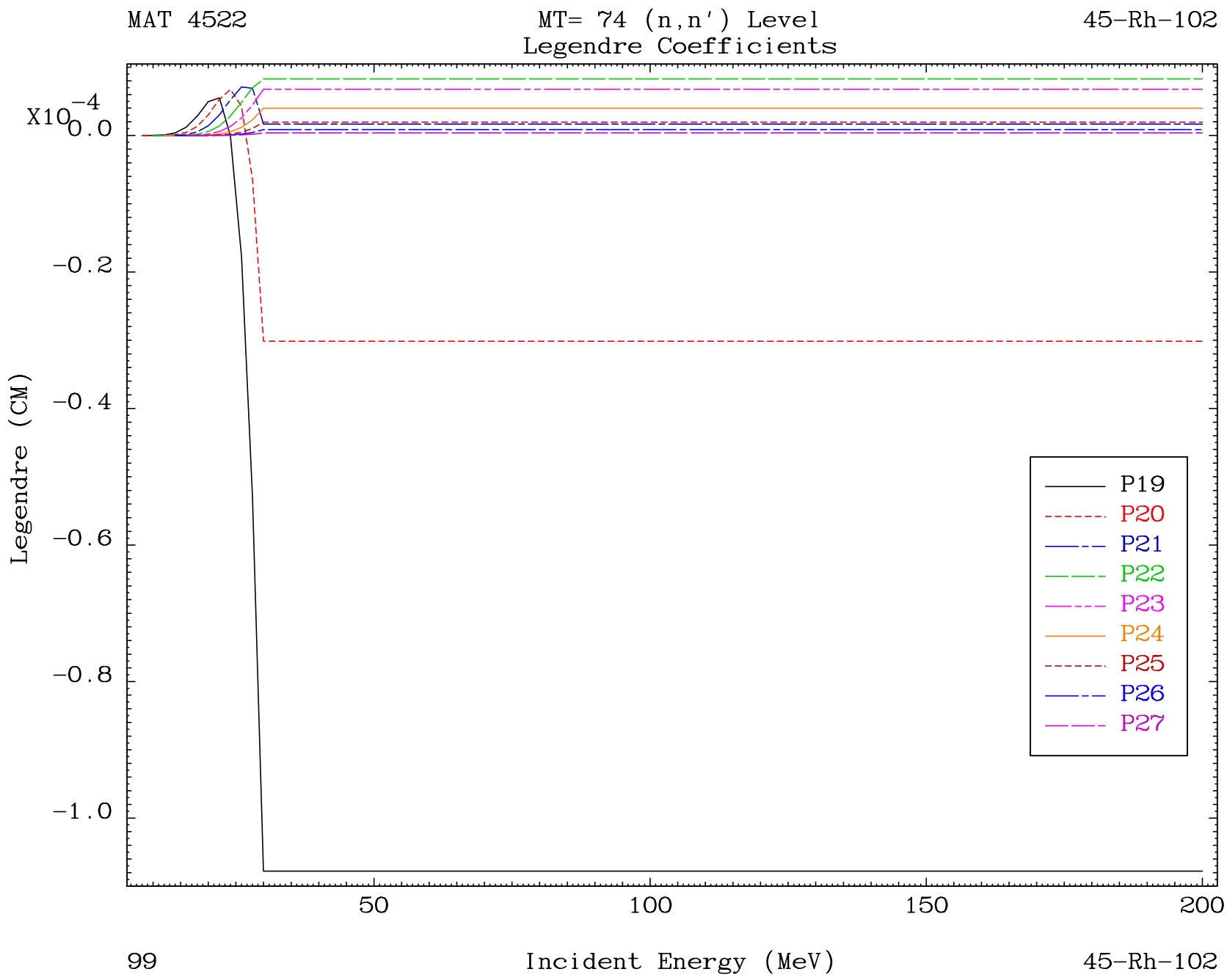

MAT 4522
MT= 73 (n,n') Level
Legendre Coefficients
45-Rh-102
0.12
0.08
0.04
0.00
Legendre (CM)
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
94
Incident Energy (MeV)
45-Rh-102

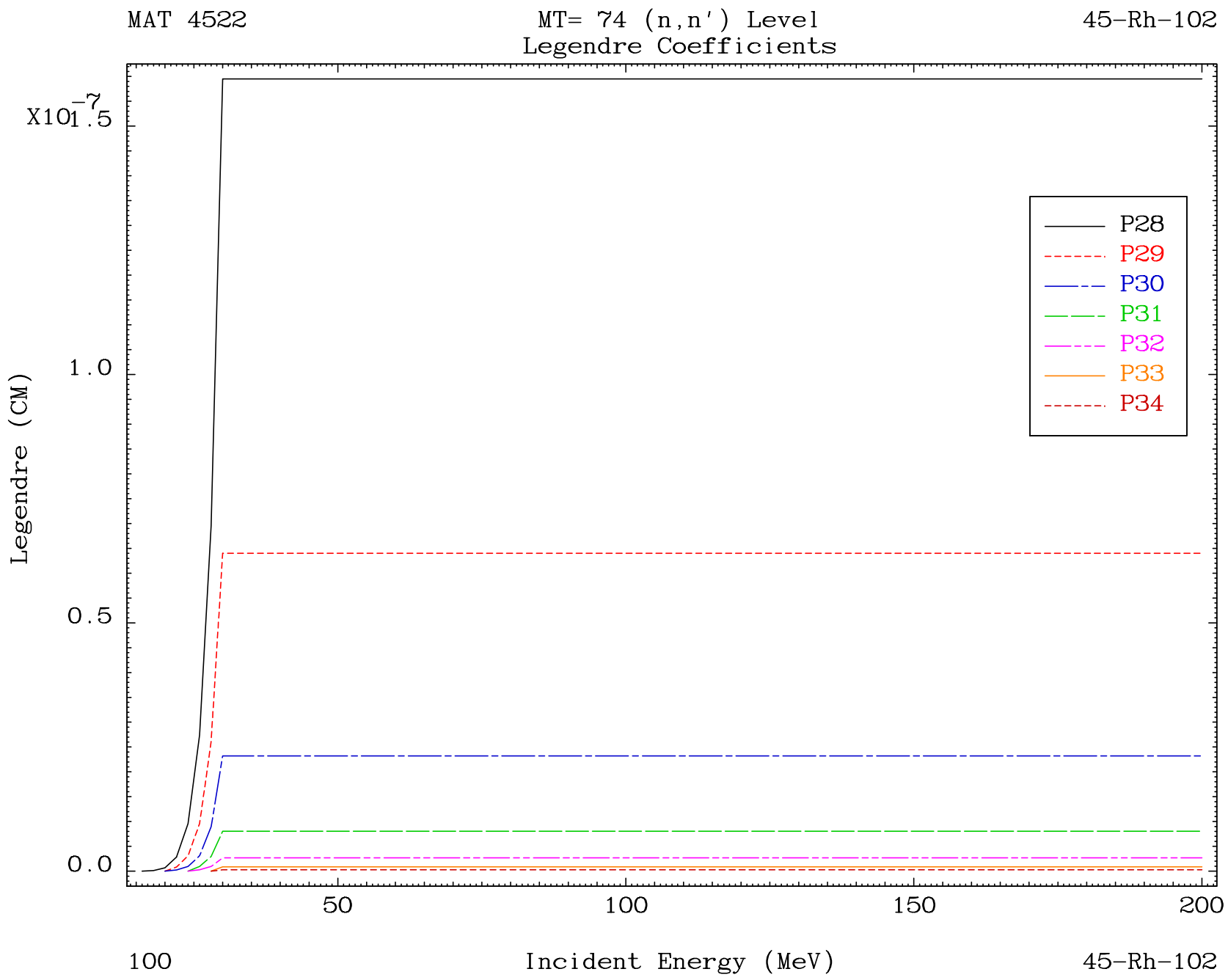

MAT 4522
MT= 73 (n,n') Level
Legendre Coefficients
45-Rh-102
X10-3
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
0
50
100
150
200
95
Incident Energy (MeV)
45-Rh-102
P10
P11
P12
P13
P14
P15
P16
P17
P18

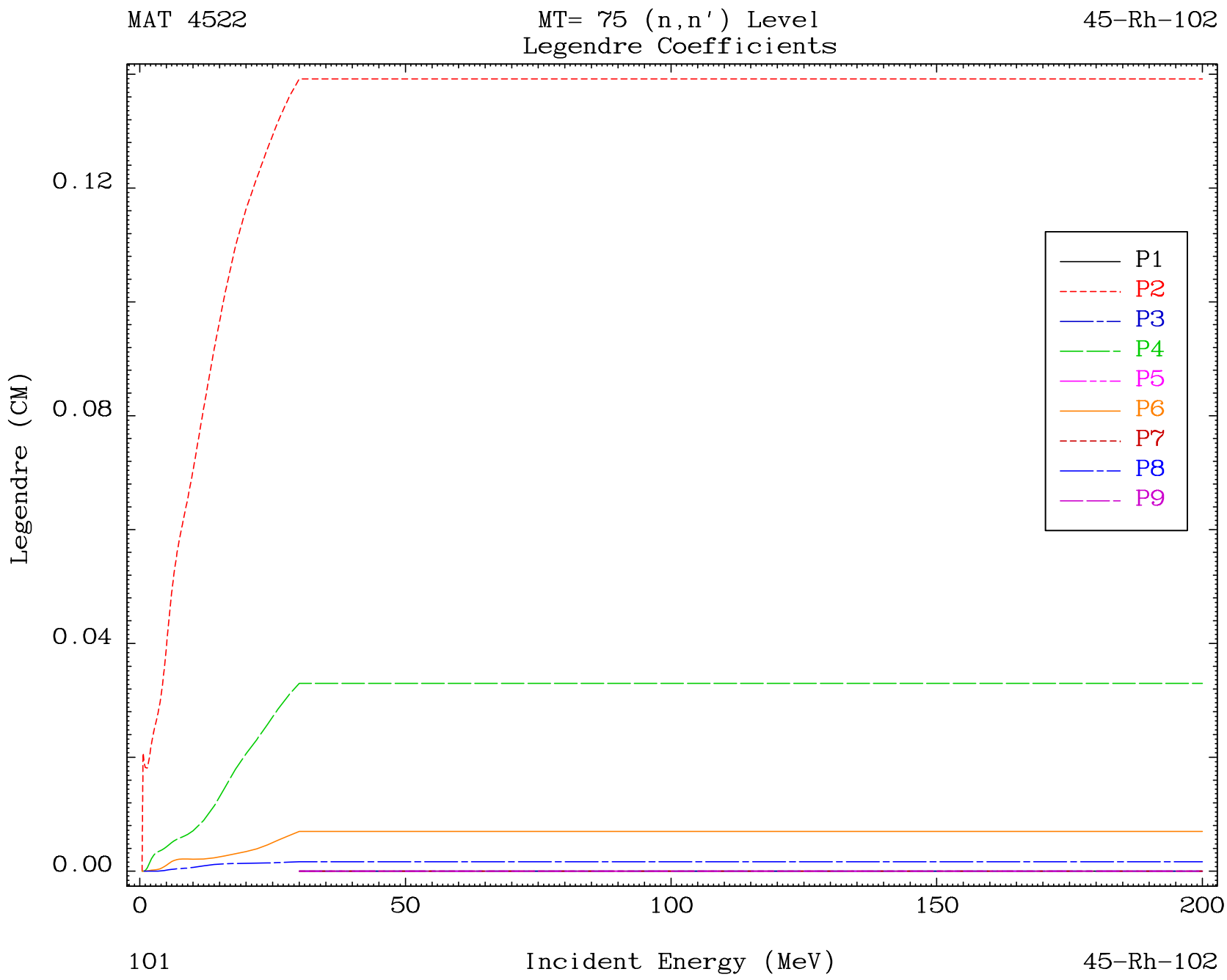

MAT 4522
MT= 73 (n,n') Level
Legendre Coefficients
45-Rh-102
X10^-7
4
3
2
1
0
Legendre (CM)
50
100
150
200
Incident Energy (MeV)
96
45-Rh-102
P19
P20
P21
P22
P23
P24
P25
P26

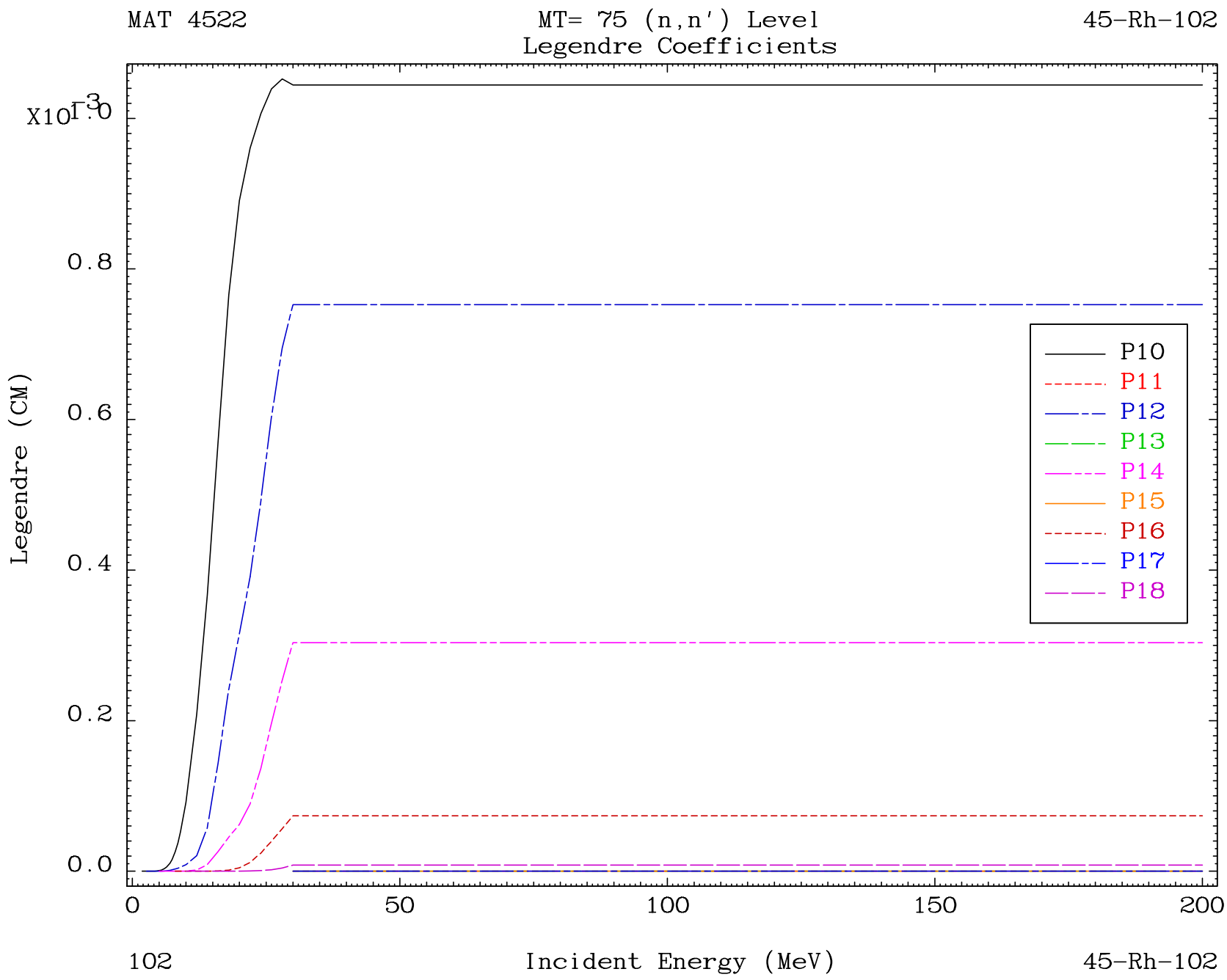

MAT 4522
MT= 74 (n,n') Level
Legendre Coefficients
45-Rh-102
0.4
0.3
0.2
0.1
0.0
Legendre (CM)
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
97
Incident Energy (MeV)
45-Rh-102

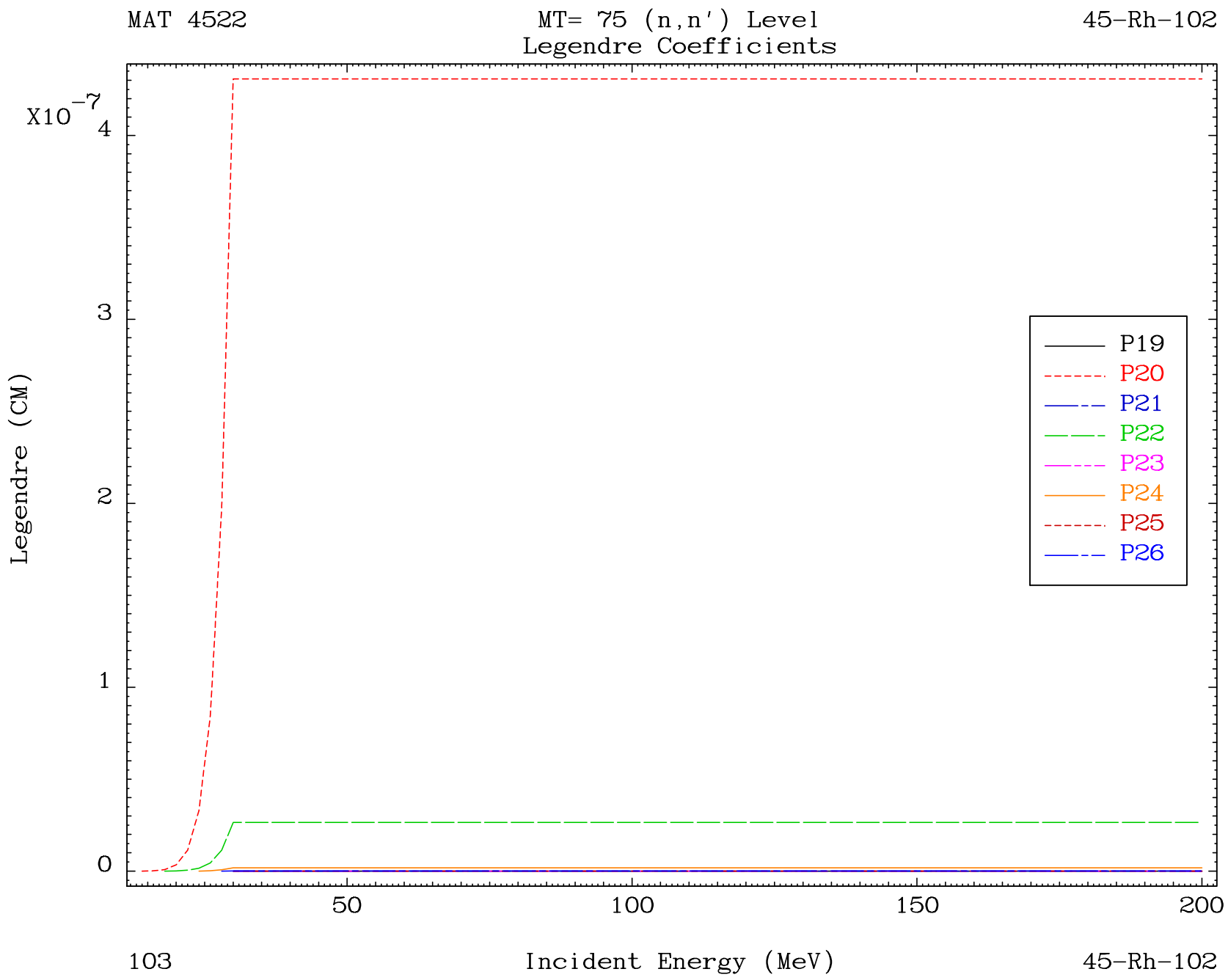

MAT 4522
MT= 74 (n,n') Level
Legendre Coefficients
45-Rh-102
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.006
0.004
0.002
0.000
-0.002
Legendre (CM)
0
50
100
150
200
98
Incident Energy (MeV)
45-Rh-102

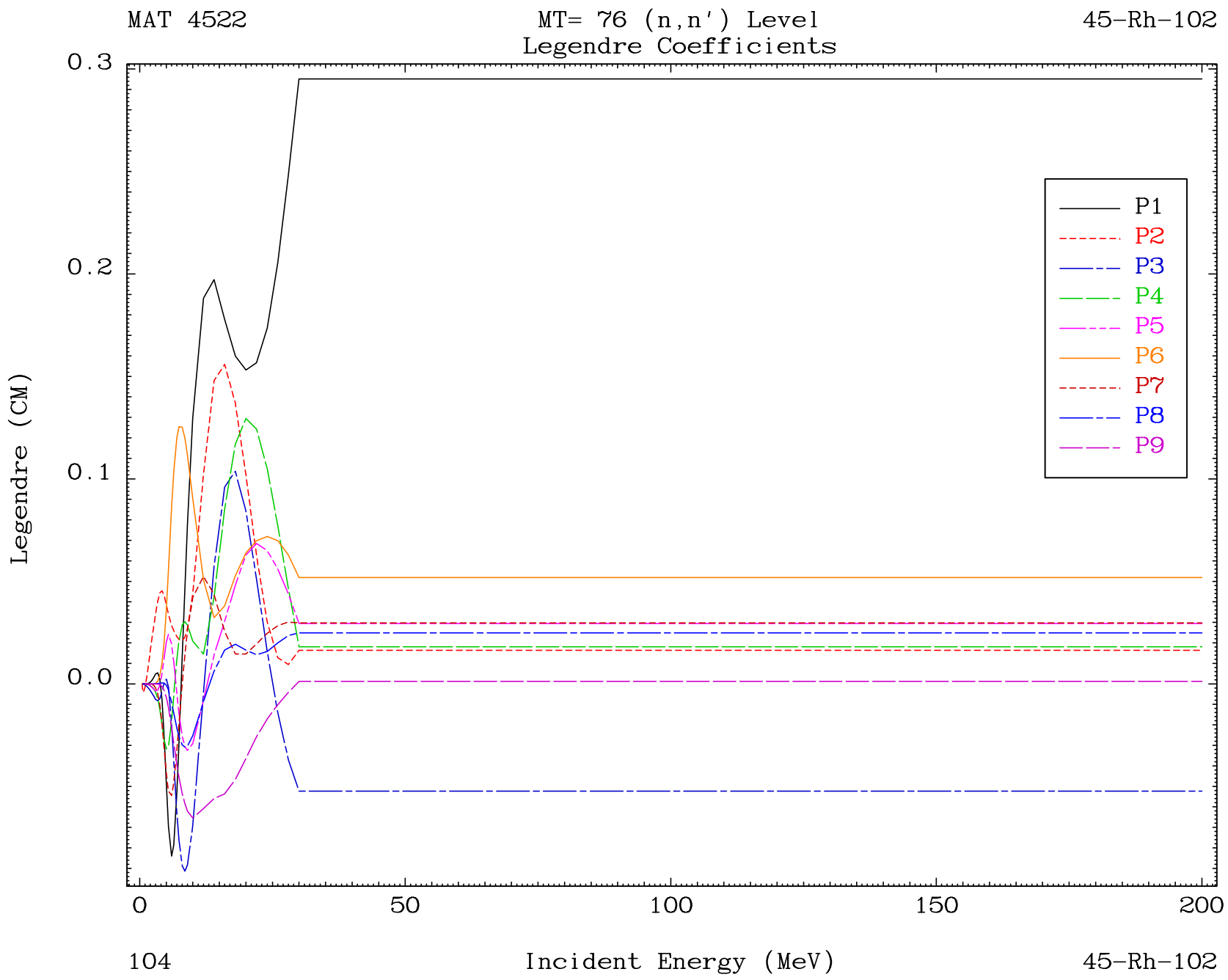

MAT 4522
MT= 74 (n,n') Level
Legendre Coefficients
45-Rh-102
X10^-4
0.0
-0.2
-0.4
-0.6
-0.8
-1.0
Legendre (CM)
50
100
150
200
Incident Energy (MeV)
99
45-Rh-102
P19
P20
P21
P22
P23
P24
P25
P26
P27

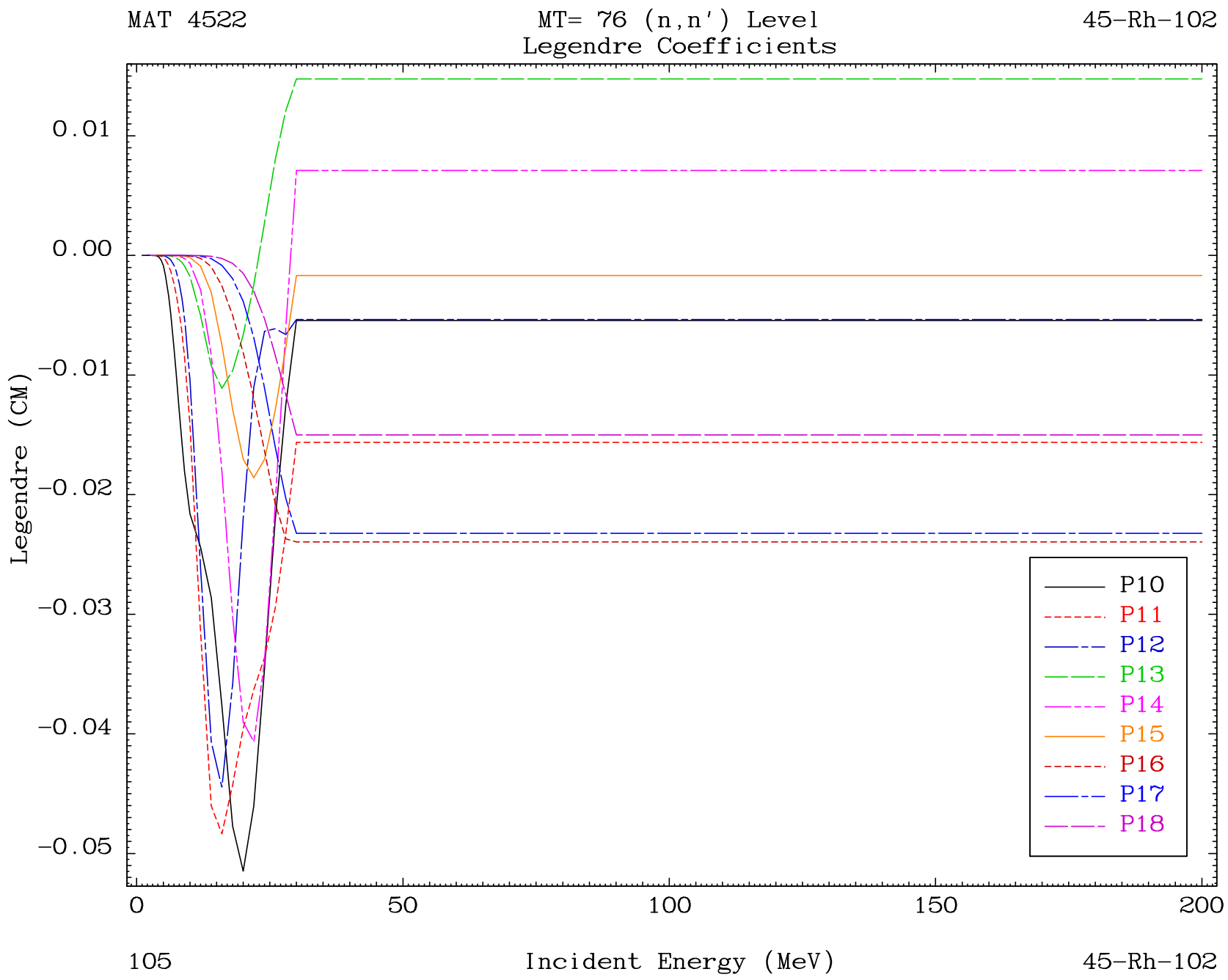

MAT 4522
MT= 74 (n,n') Level
Legendre Coefficients
45-Rh-102
X10^-7
1.5
1.0
0.5
0.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
100
Incident Energy (MeV)
45-Rh-102

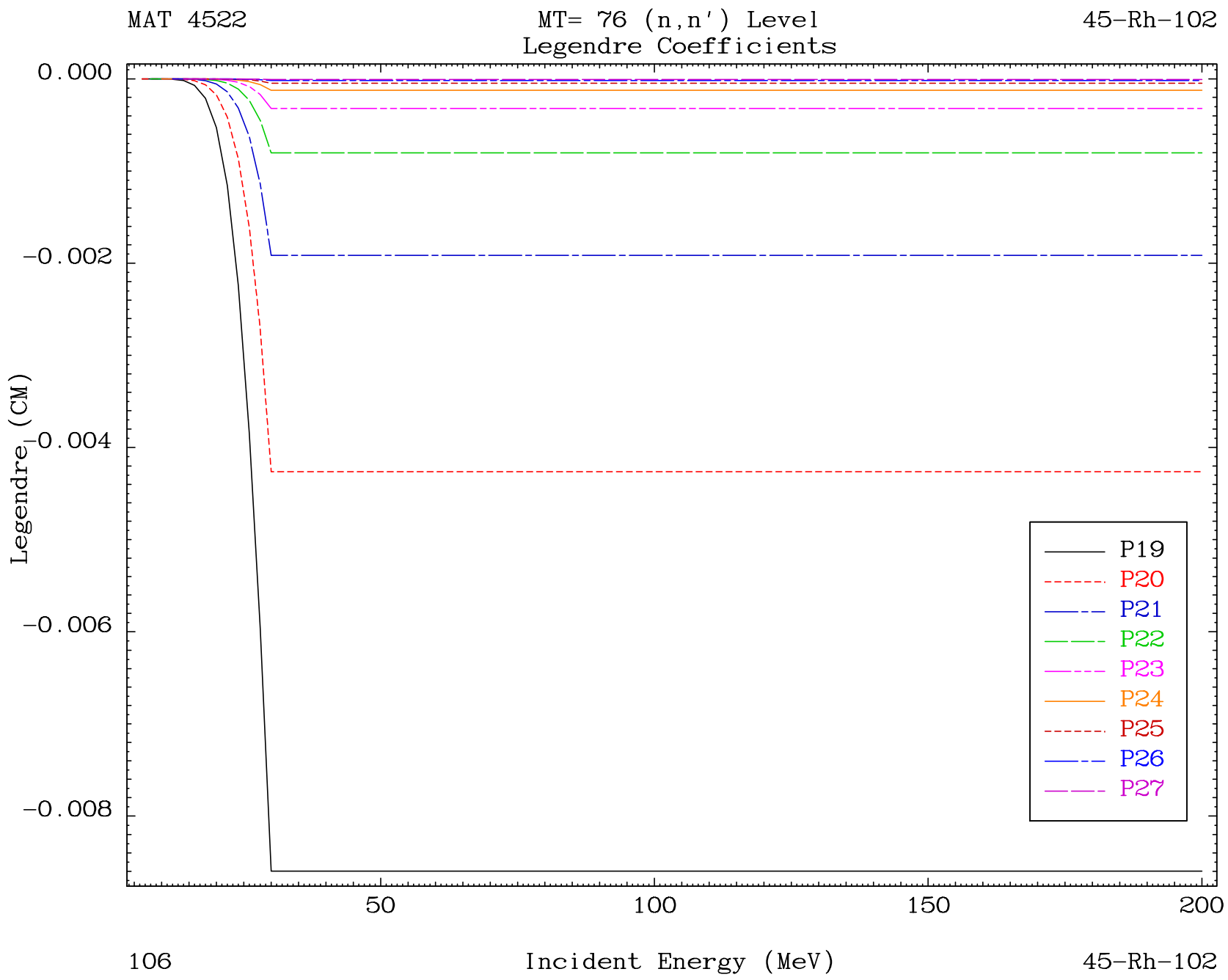

MAT 4522
MT= 75 (n,n') Level
Legendre Coefficients
45-Rh-102
0.12
0.08
0.04
0.00
Legendre (CM)
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
101
Incident Energy (MeV)
45-Rh-102

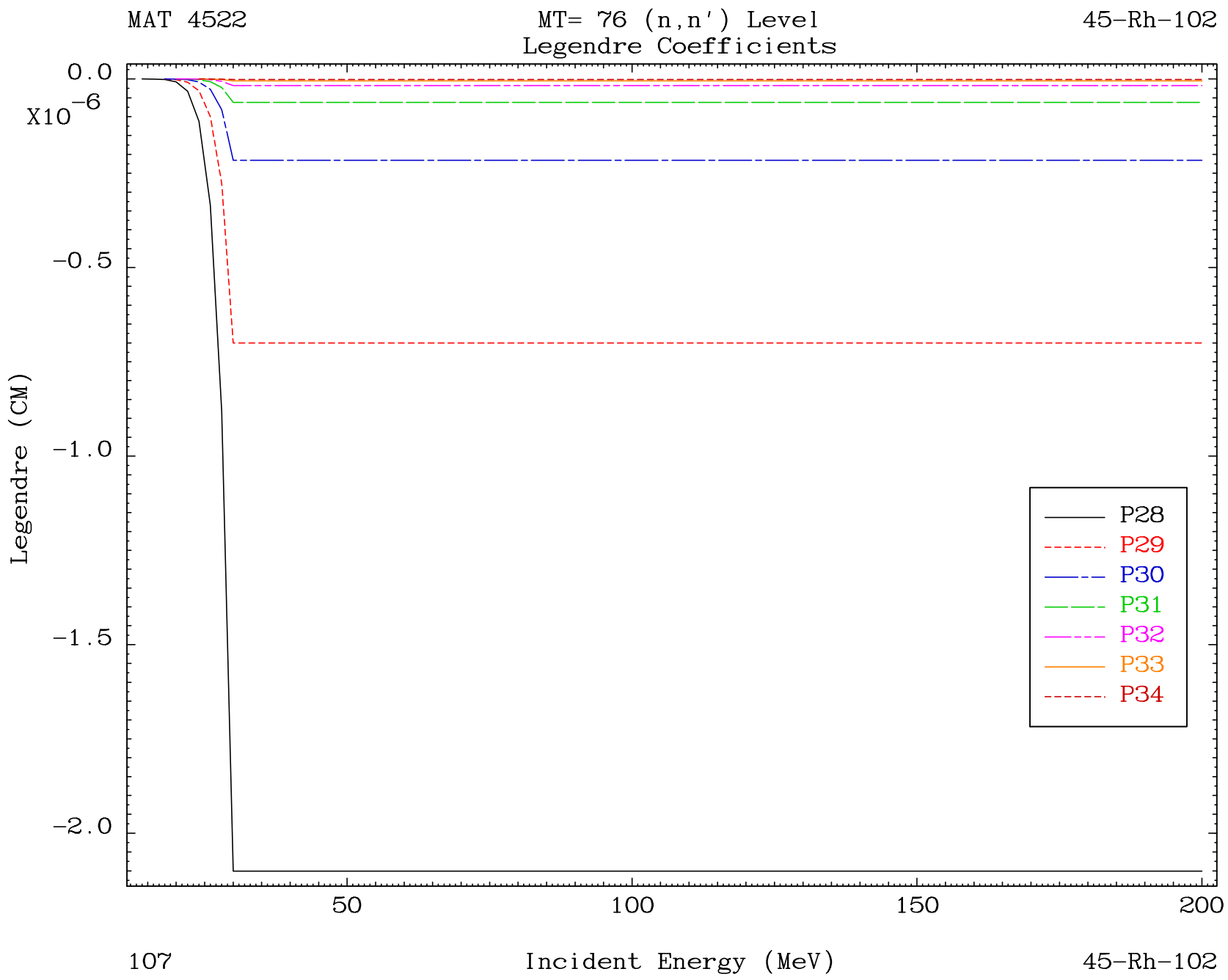

MAT 4522
MT= 75 (n,n') Level
Legendre Coefficients
45-Rh-102
X10[-3]
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
0
50
100
150
200
P10
P11
P12
P13
P14
P15
P16
P17
P18
102
Incident Energy (MeV)
45-Rh-102

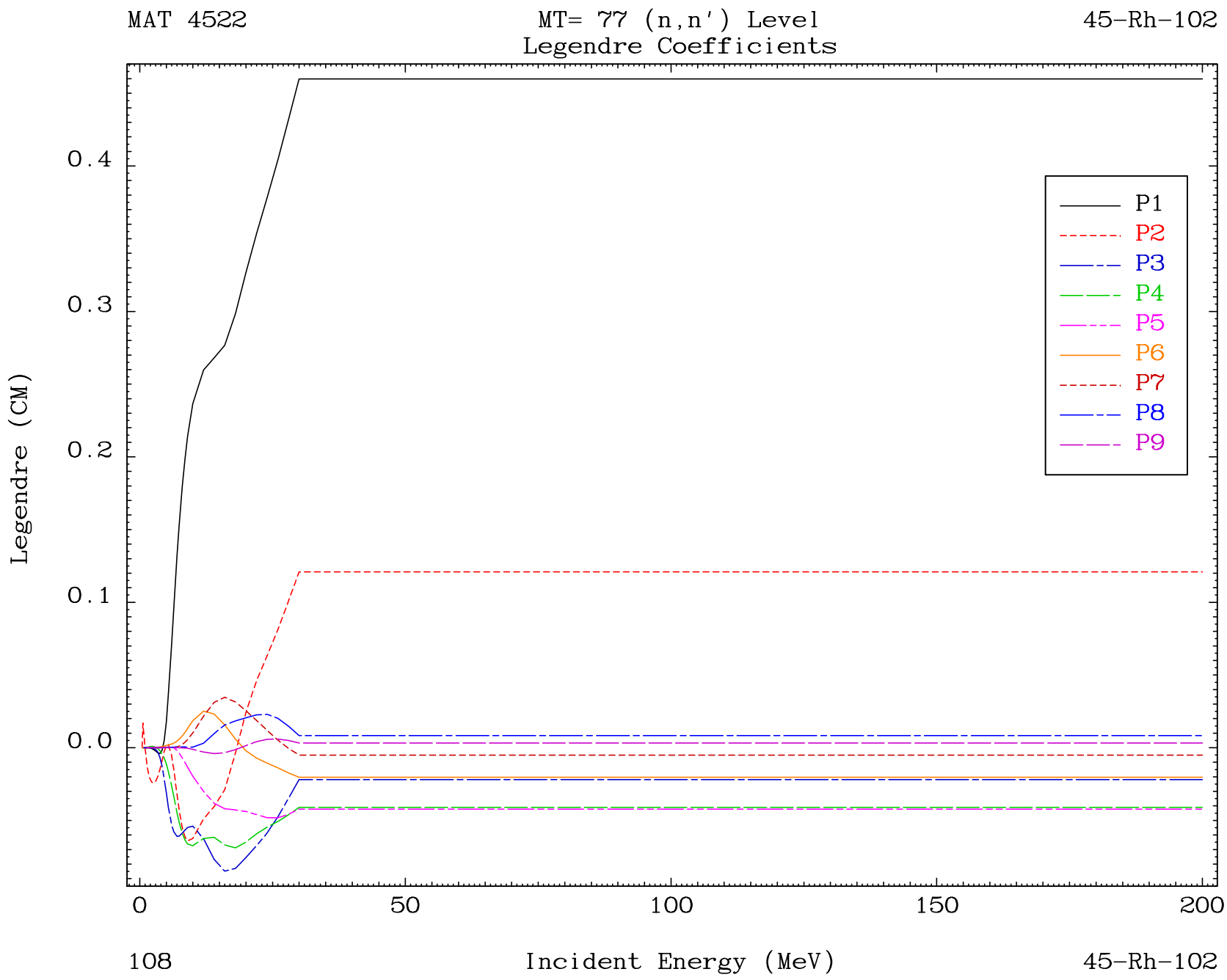

MAT 4522
MT= 75 (n,n') Level
Legendre Coefficients
45-Rh-102
X10^-7
4
3
2
1
0
Legendre (CM)
50
100
150
200
103
Incident Energy (MeV)
45-Rh-102
P19
P20
P21
P22
P23
P24
P25
P26

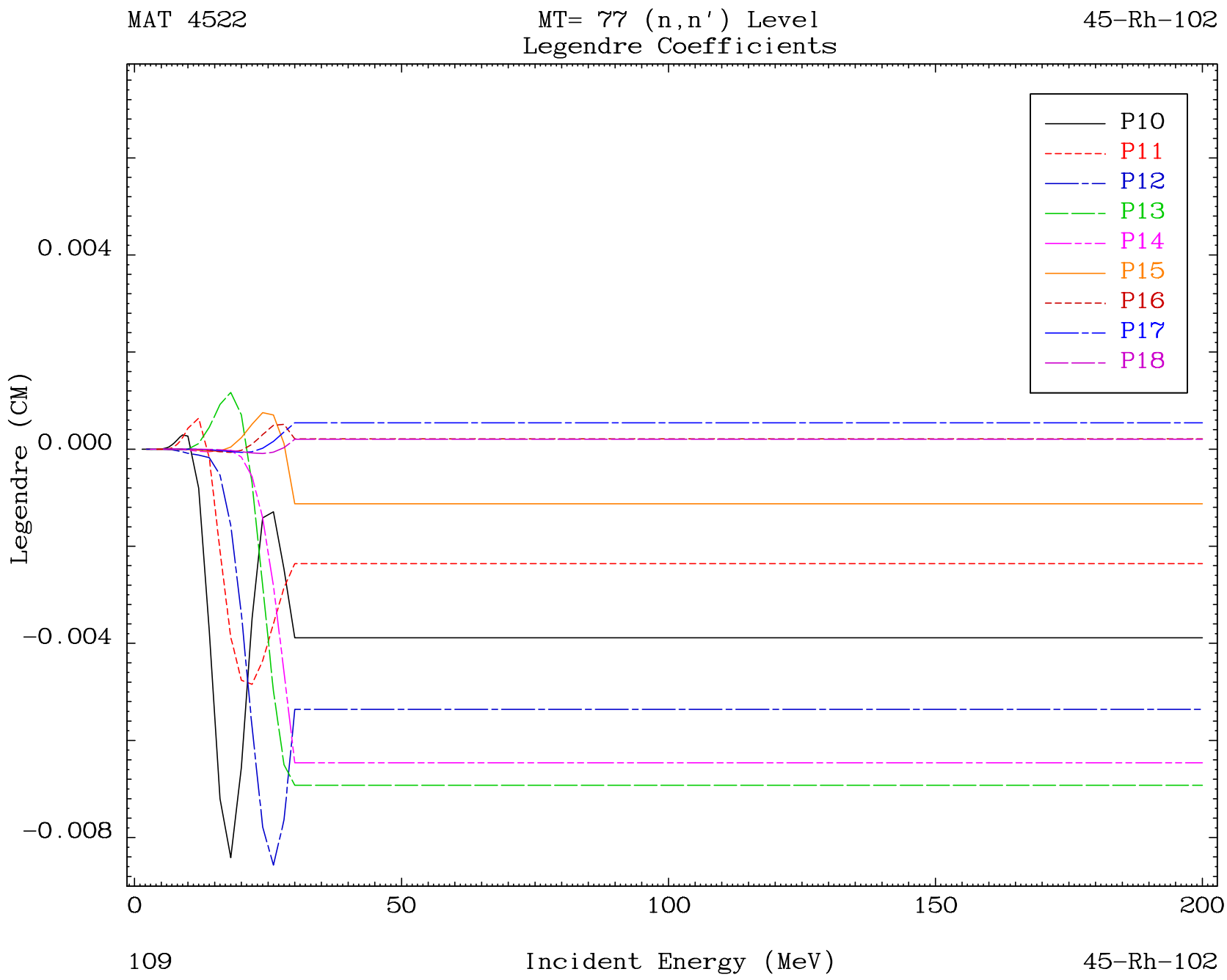

MAT 4522
MT= 76 (n,n') Level
Legendre Coefficients
45-Rh-102
0.3
0.2
0.1
0.0
Legendre (CM)
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
104
Incident Energy (MeV)
45-Rh-102

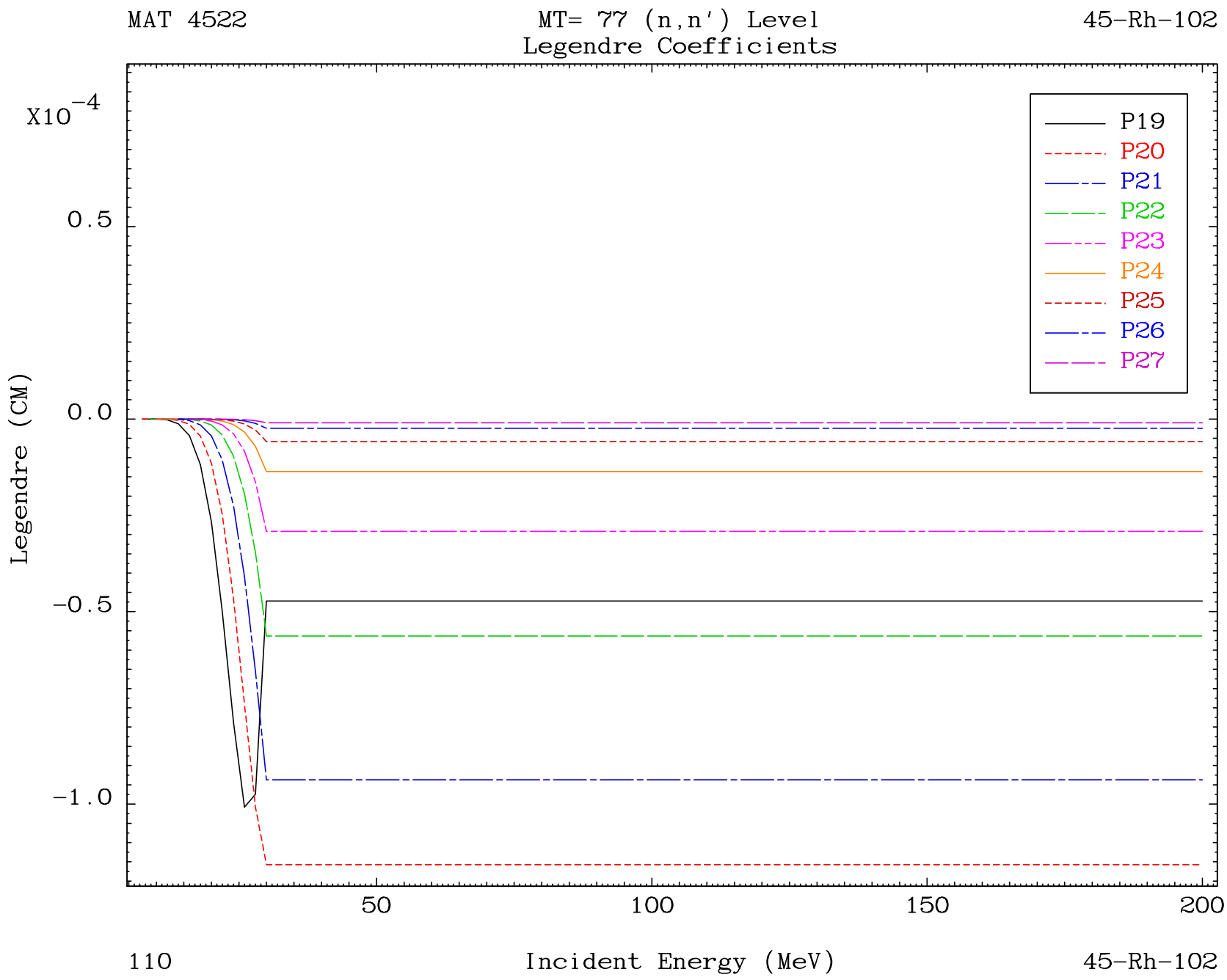

MAT 4522
MT= 76 (n,n') Level
Legendre Coefficients
45-Rh-102
0.01
0.00
-0.01
-0.02
-0.03
-0.04
-0.05
Legendre (CM)
0
50
100
150
200
105
Incident Energy (MeV)
45-Rh-102
P10
P11
P12
P13
P14
P15
P16
P17
P18

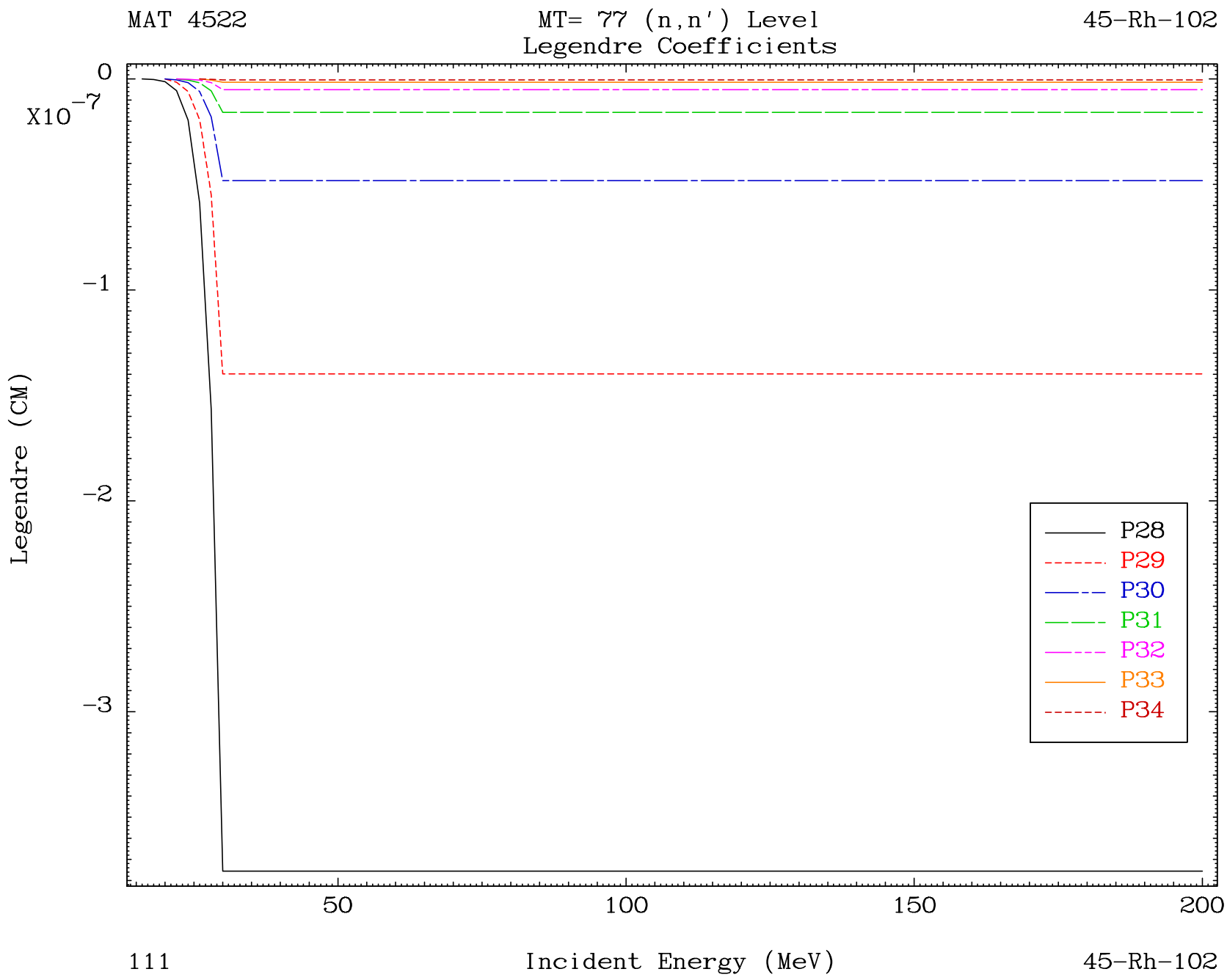

MAT 4522
MT= 76 (n,n') Level
Legendre Coefficients
45-Rh-102
0.000
-0.002
-0.004
-0.006
-0.008
Legendre$_l$ (CM)
50
100
150
200
106
Incident Energy (MeV)
45-Rh-102
P19
P20
P21
P22
P23
P24
P25
P26
P27

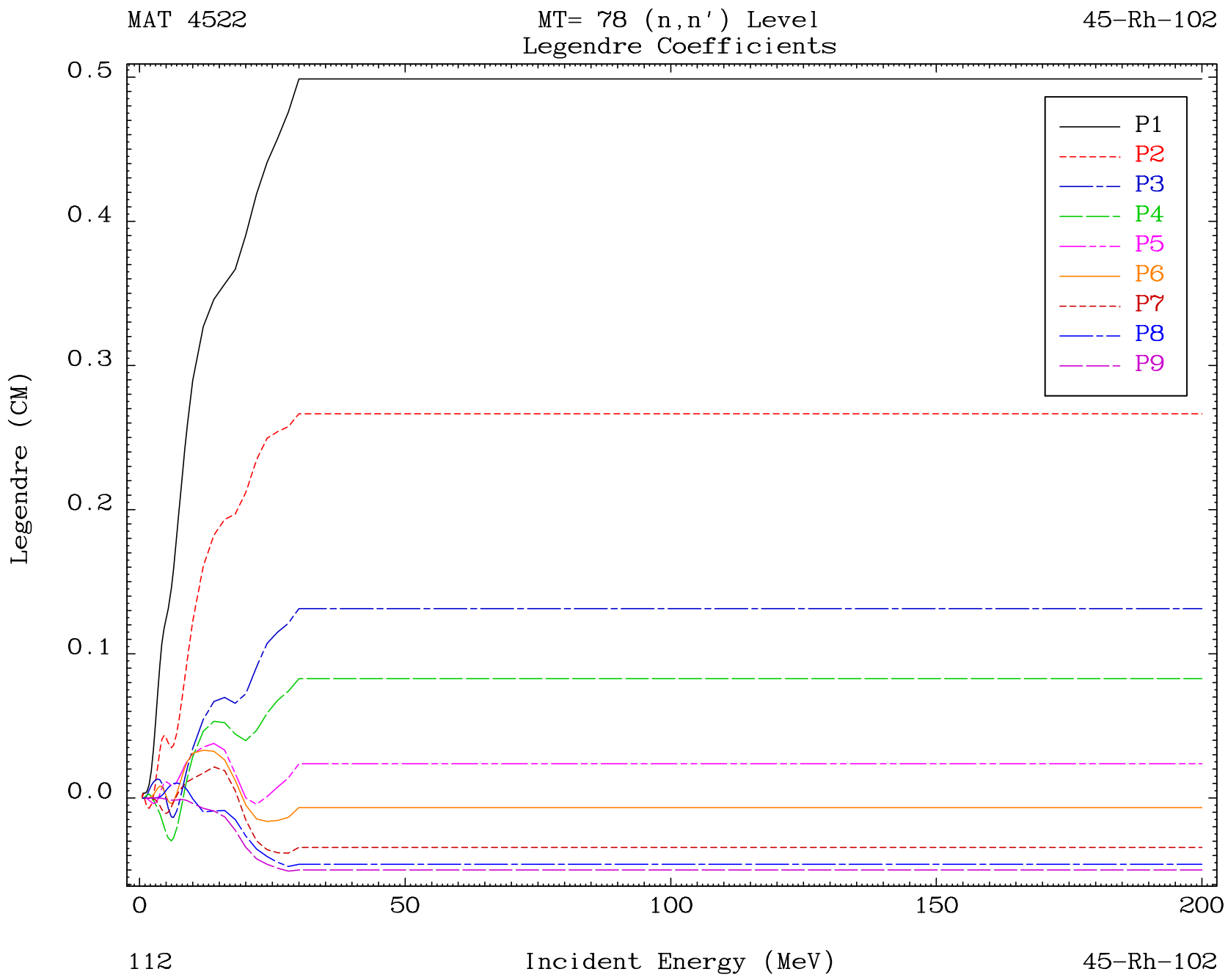

MAT 4522
MT= 76 (n,n') Level
Legendre Coefficients
45-Rh-102
0.0
X10^-6
-0.5
-1.0
-1.5
-2.0
Legendre (CM)
50
100
150
200
107
Incident Energy (MeV)
45-Rh-102
P28
P29
P30
P31
P32
P33
P34

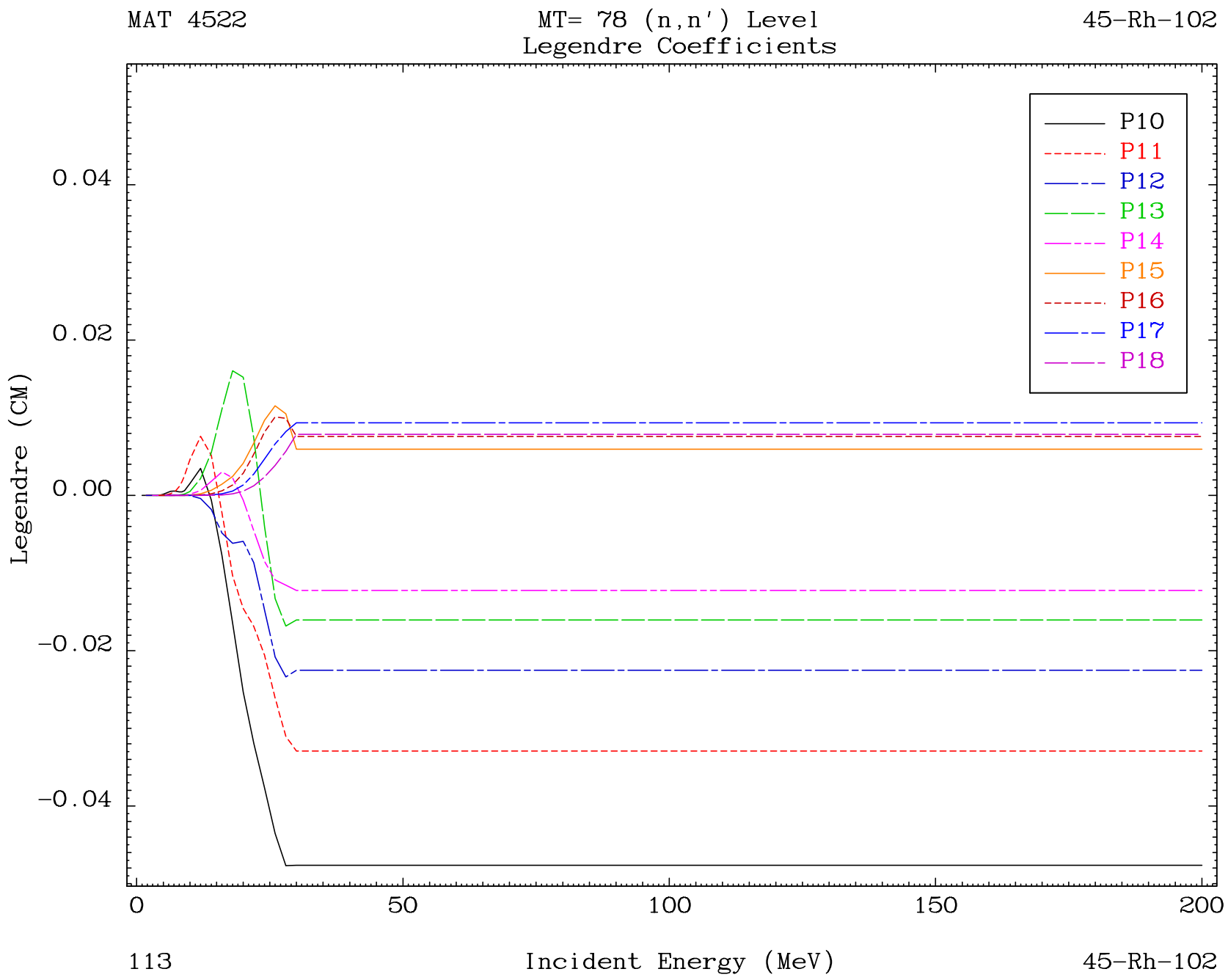

MAT 4522
MT= 77 (n,n') Level
Legendre Coefficients
45-Rh-102
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
108
Incident Energy (MeV)
45-Rh-102

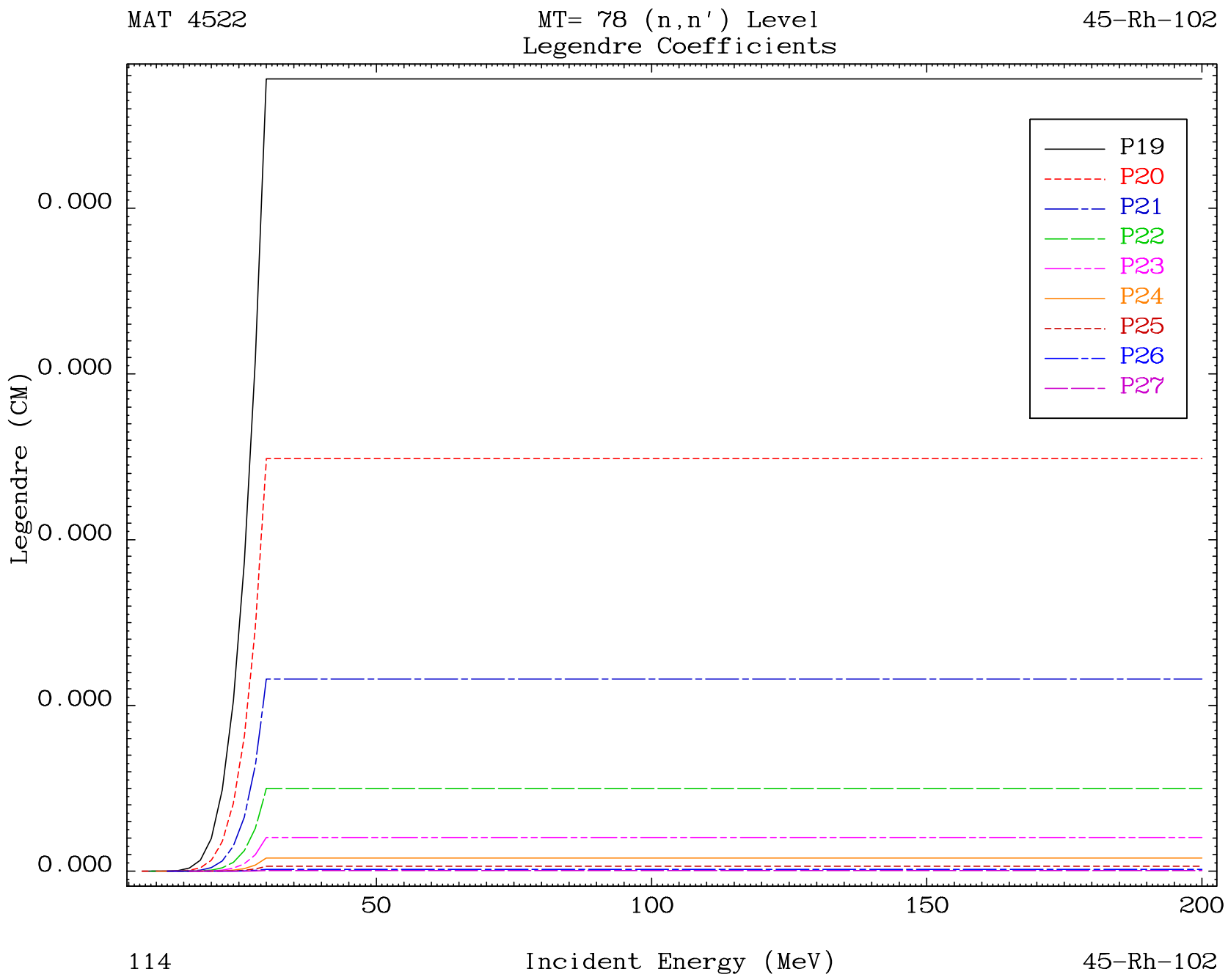

MAT 4522
MT= 77 (n,n') Level
Legendre Coefficients
45-Rh-102
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.004
0.000
-0.004
-0.008
Legendre (CM)
0
50
100
150
200
109
Incident Energy (MeV)
45-Rh-102

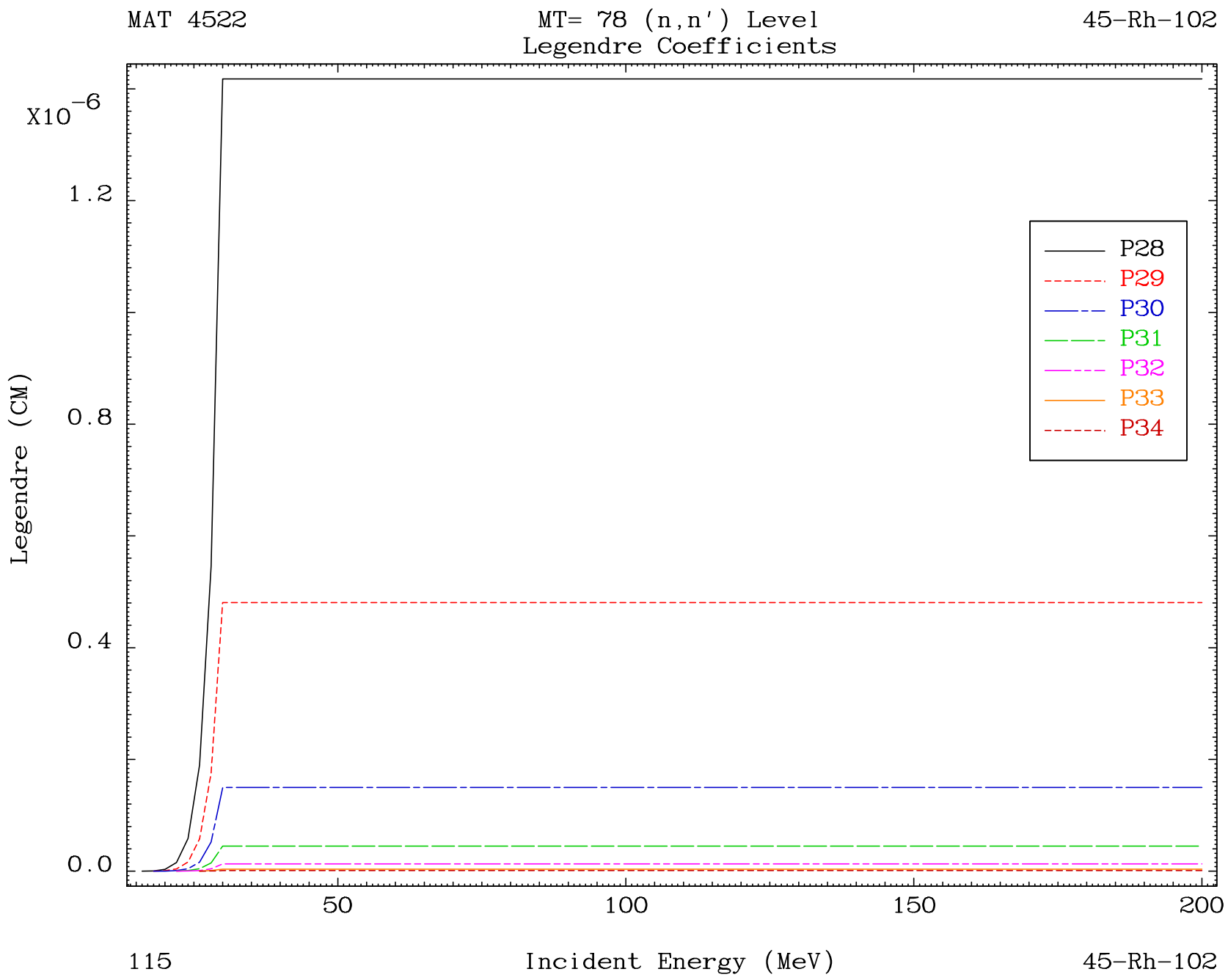

MAT 4522
MT= 77 (n,n') Level
Legendre Coefficients
45-Rh-102
X10^-4
0.5
0.0
-0.5
-1.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
110
Incident Energy (MeV)
45-Rh-102

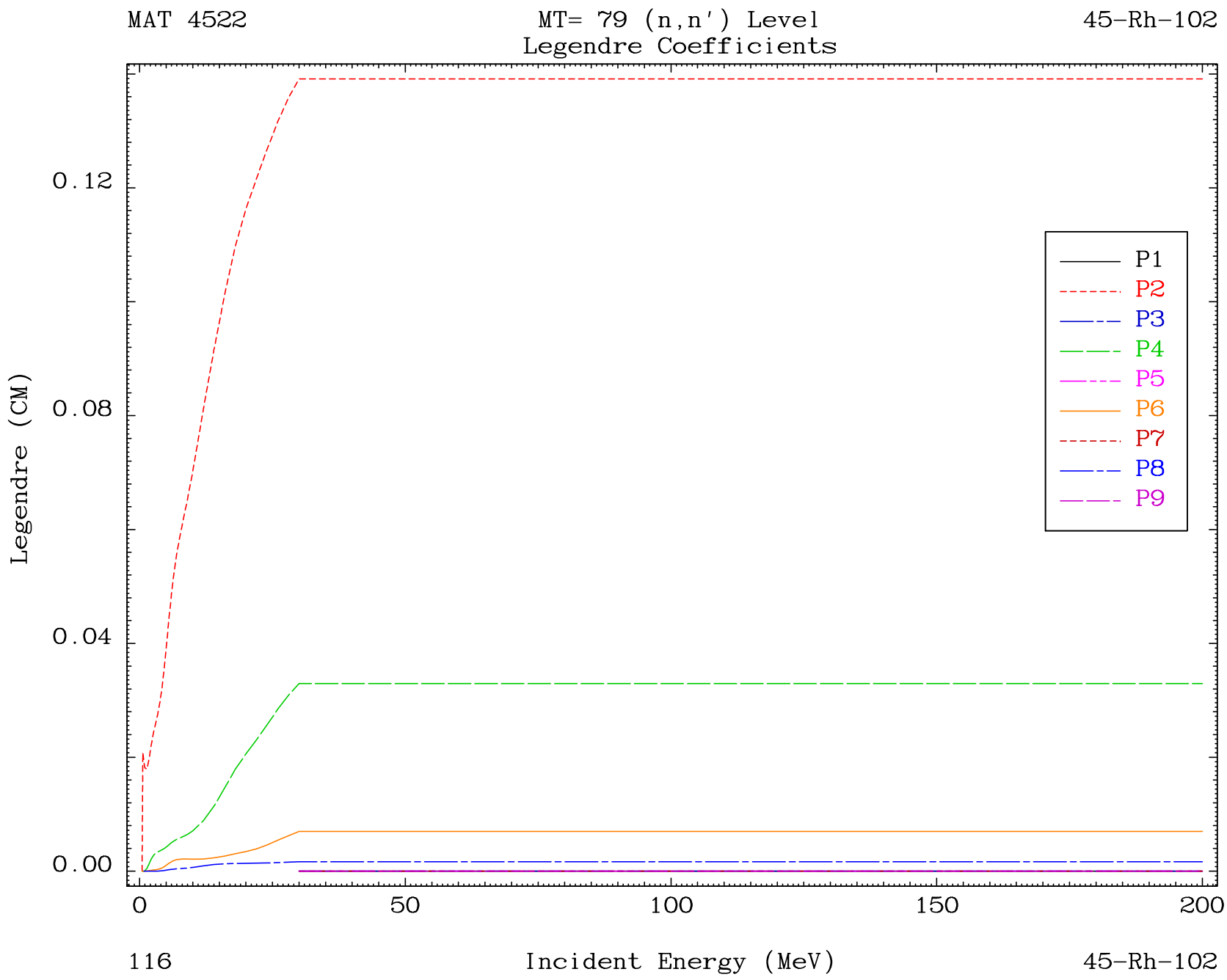

MAT 4522
MT= 77 (n,n') Level
Legendre Coefficients
45-Rh-102
0
X10^-7
-1
-2
-3
Legendre (CM)
50
100
150
200
Incident Energy (MeV)
111
45-Rh-102
P28
P29
P30
P31
P32
P33
P34

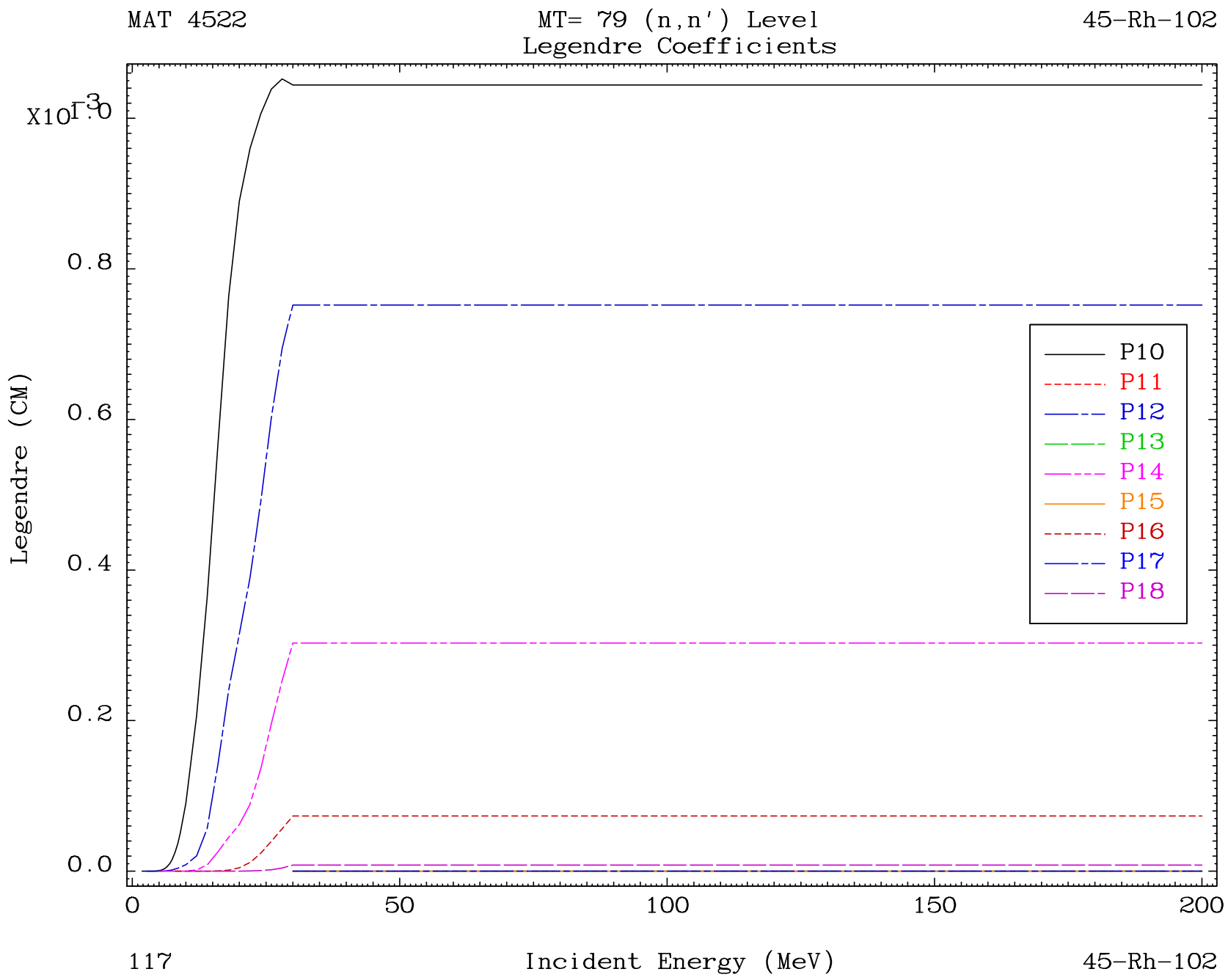

MAT 4522
MT= 78 (n,n') Level
Legendre Coefficients
45-Rh-102
0.5
0.4
0.3
0.2
0.1
0.0
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
112
Incident Energy (MeV)
45-Rh-102

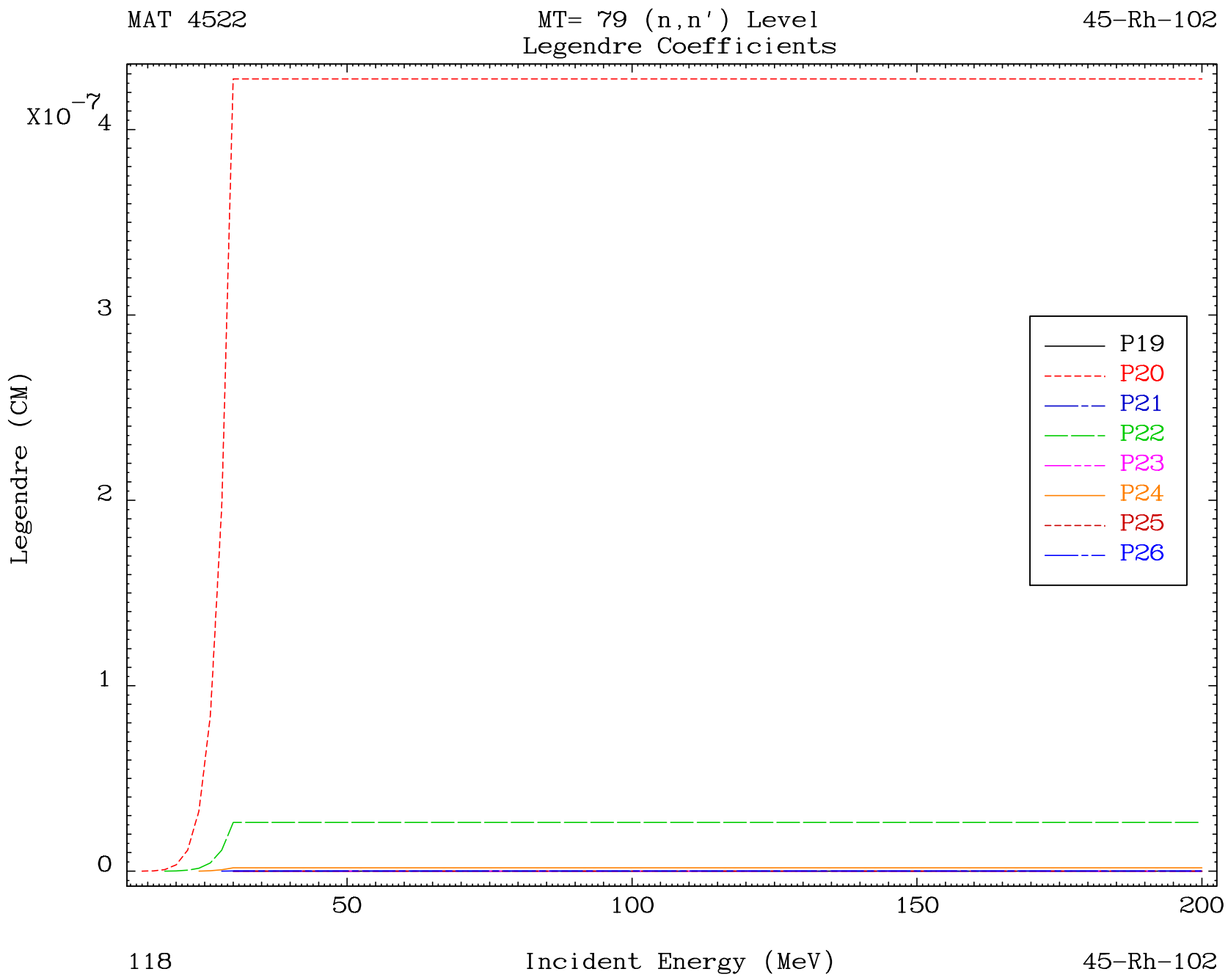

MAT 4522
MT= 78 (n,n') Level
Legendre Coefficients
45-Rh-102
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.04
0.02
0.00
-0.02
-0.04
Legendre (CM)
0
50
100
150
200
113
Incident Energy (MeV)
45-Rh-102

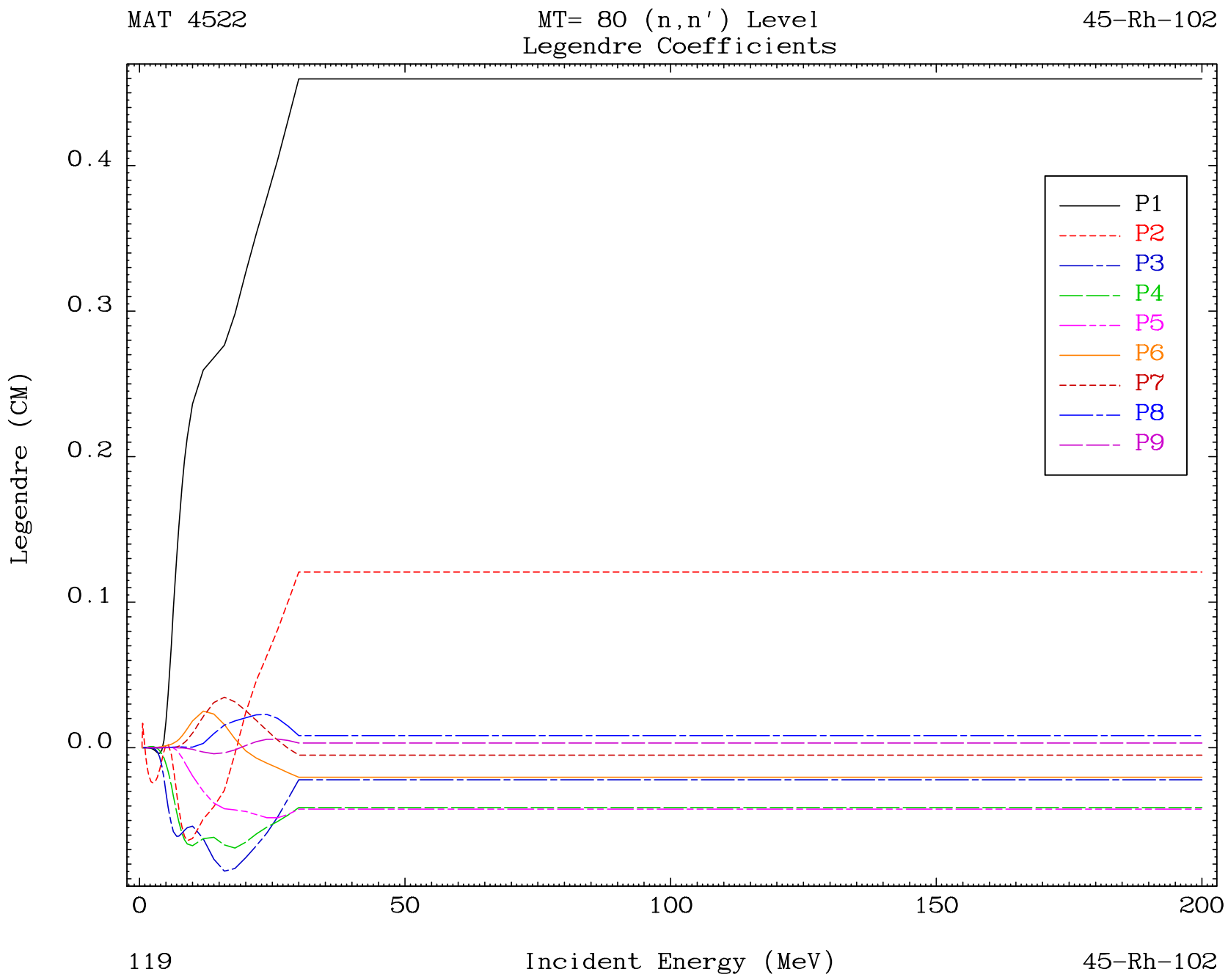

MAT 4522
MT= 78 (n,n') Level
Legendre Coefficients
45-Rh-102
P19
P20
P21
P22
P23
P24
P25
P26
P27
0.000
0.000
0.000
0.000
0.000
Legendre (CM)
50
100
150
200
114
Incident Energy (MeV)
45-Rh-102

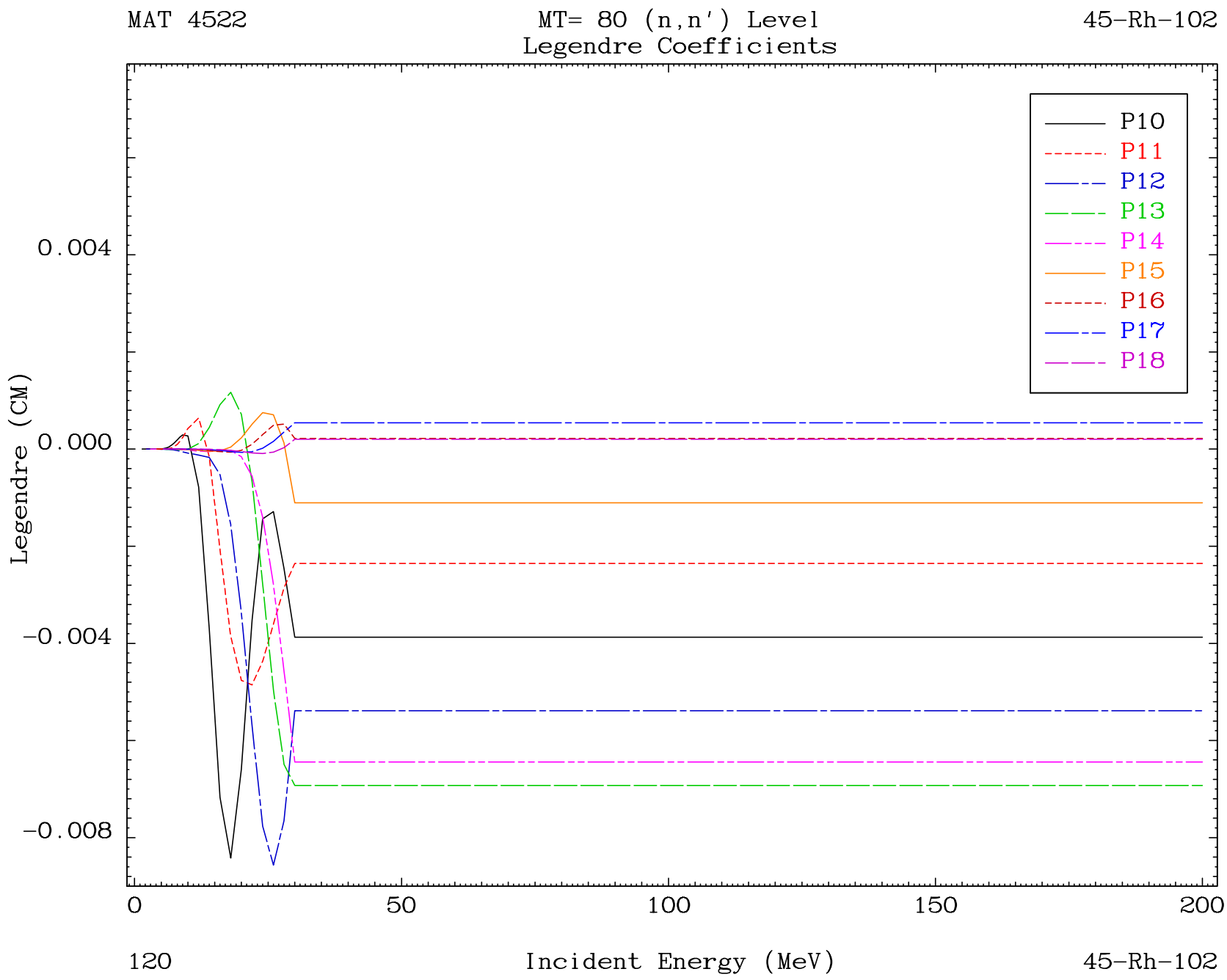

MAT 4522
MT= 78 (n,n') Level
Legendre Coefficients
45-Rh-102
X10^-6
1.2
0.8
0.4
0.0
Legendre (CM)
50
100
150
200
115
Incident Energy (MeV)
45-Rh-102
P28
P29
P30
P31
P32
P33
P34

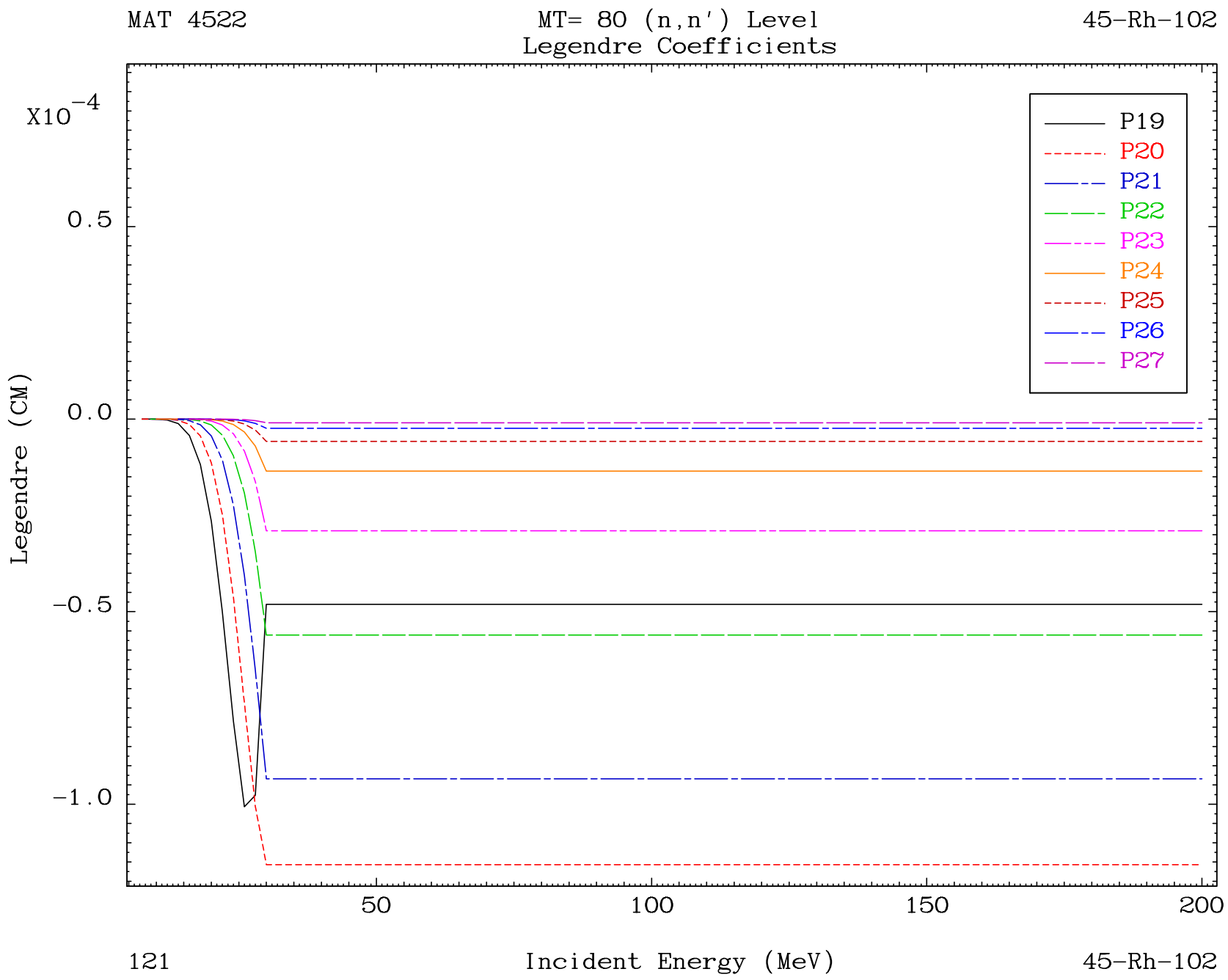

MAT 4522
MT= 79 (n,n') Level
Legendre Coefficients
45-Rh-102
0.12
0.08
0.04
0.00
Legendre (CM)
0
50
100
150
200
Incident Energy (MeV)
116
45-Rh-102
P1
P2
P3
P4
P5
P6
P7
P8
P9

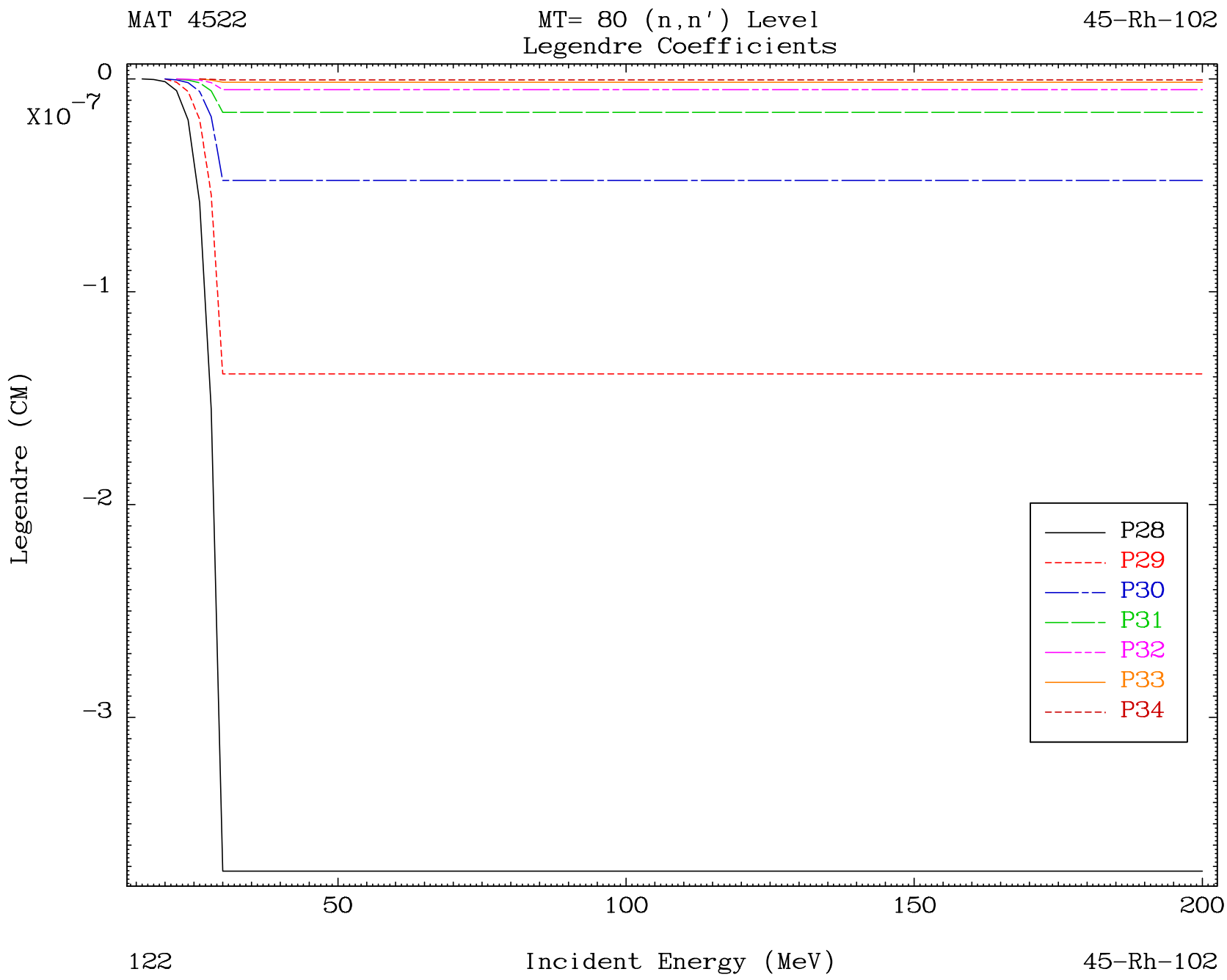

MAT 4522
MT= 79 (n,n') Level
Legendre Coefficients
45-Rh-102
X10-3
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
0
50
100
150
200
P10
P11
P12
P13
P14
P15
P16
P17
P18
117
Incident Energy (MeV)
45-Rh-102

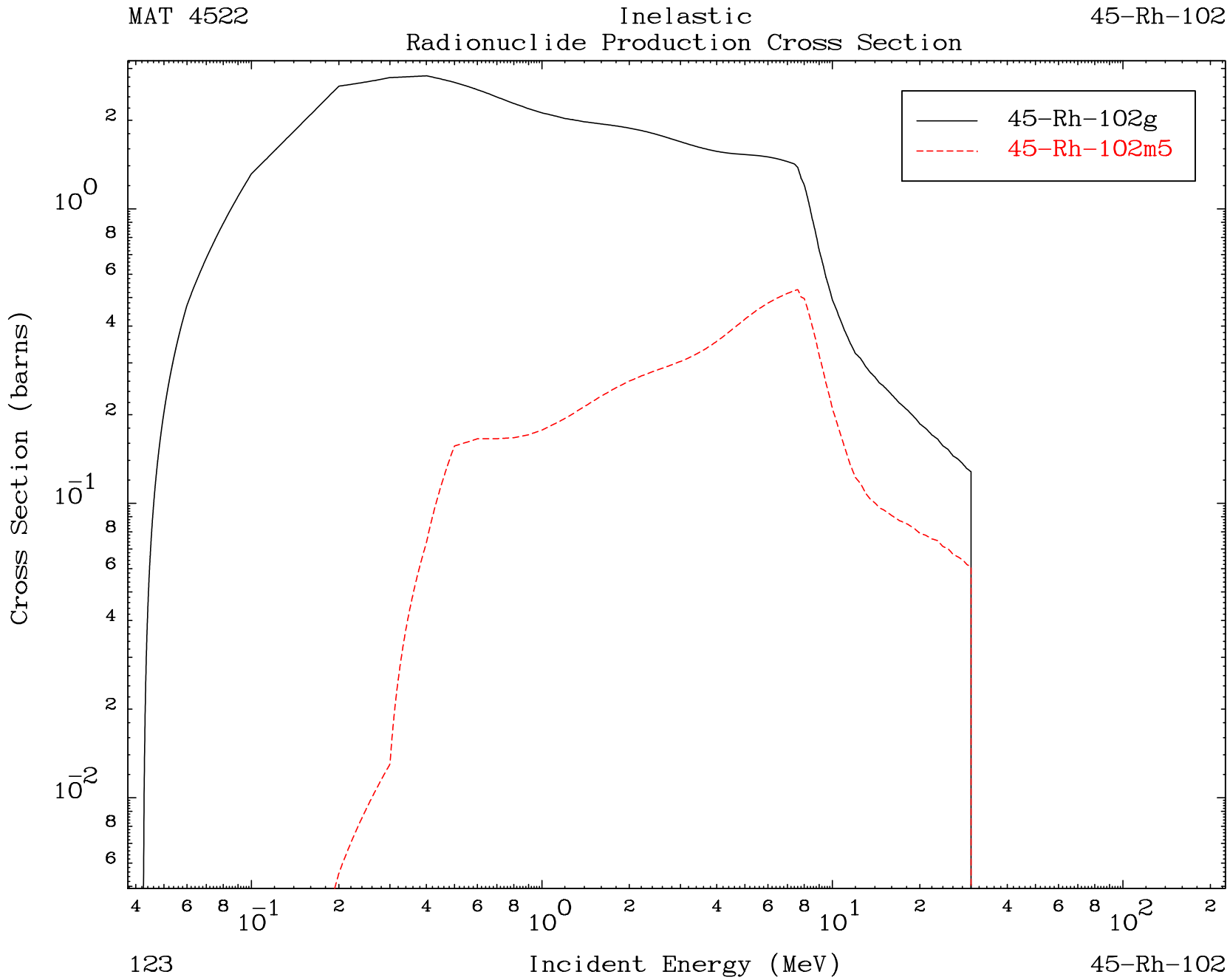

MAT 4522
MT= 79 (n,n') Level
Legendre Coefficients
45-Rh-102
X10^-7
4
3
2
1
0
Legendre (CM)
50
100
150
200
Incident Energy (MeV)
P19
P20
P21
P22
P23
P24
P25
P26
118
45-Rh-102

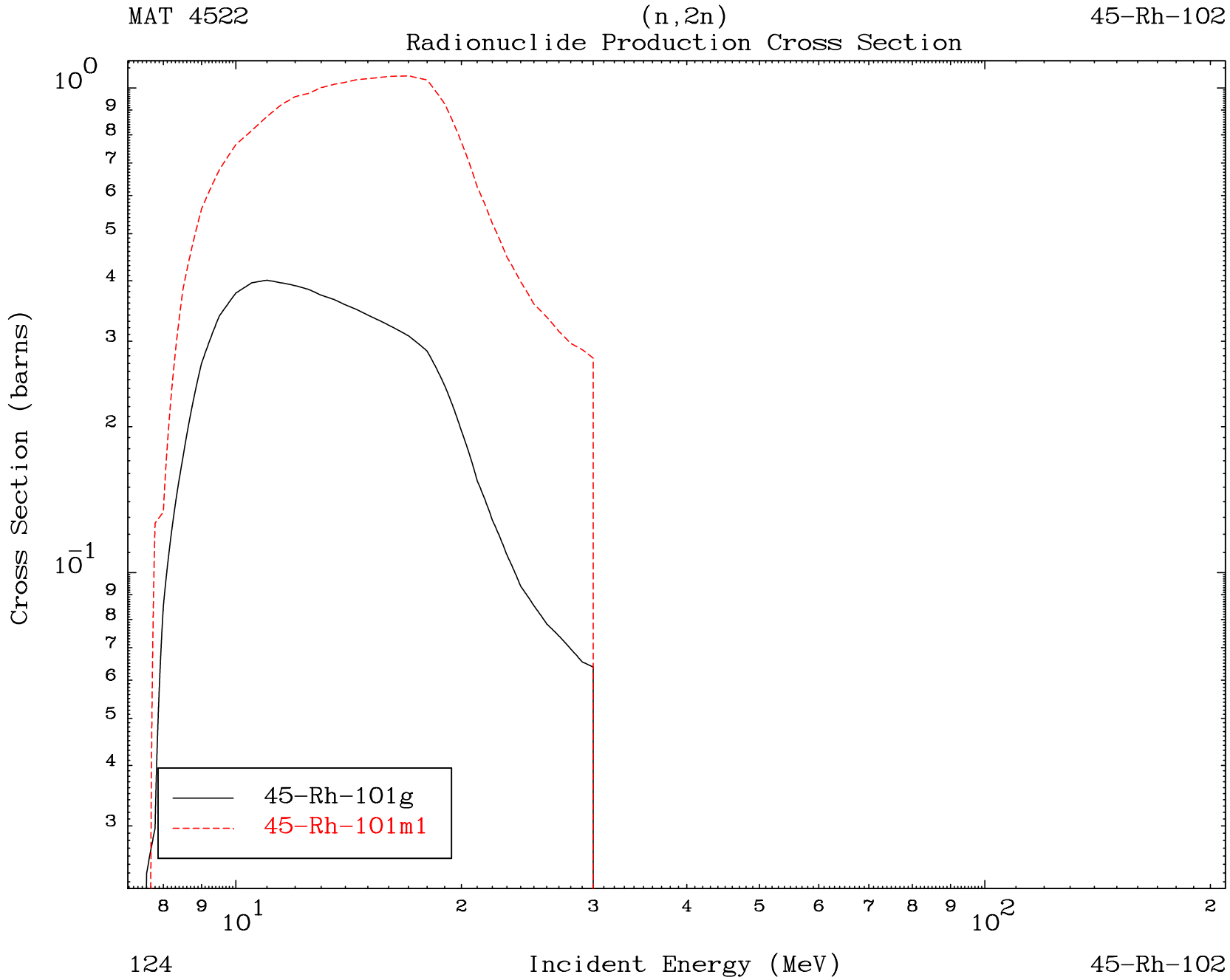

MAT 4522
MT= 80 (n,n') Level
Legendre Coefficients
45-Rh-102
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
119
Incident Energy (MeV)
45-Rh-102

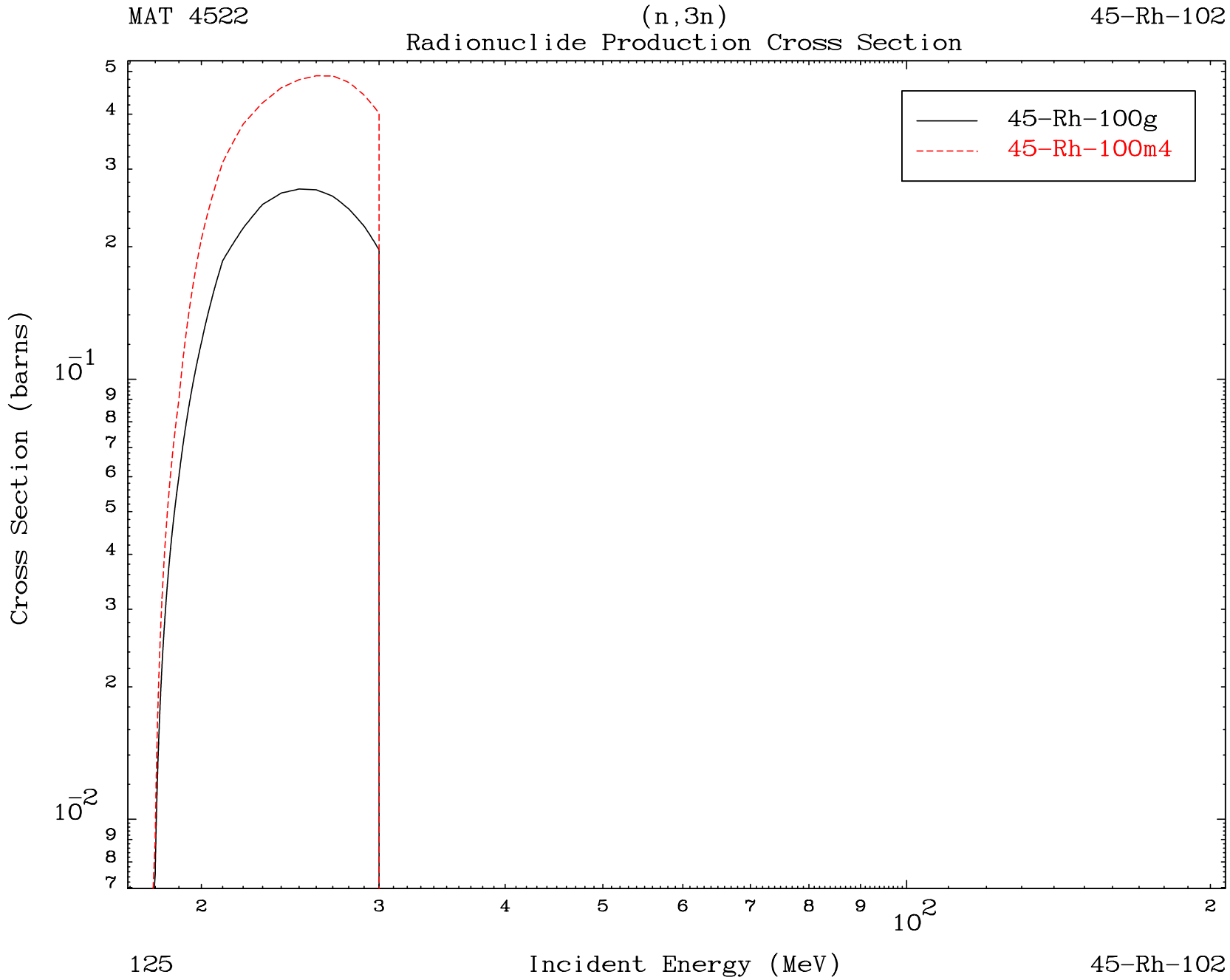

MAT 4522
MT= 80 (n,n') Level
Legendre Coefficients
45-Rh-102
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.004
0.000
-0.004
-0.008
Legendre (CM)
0
50
100
150
200
120
Incident Energy (MeV)
45-Rh-102

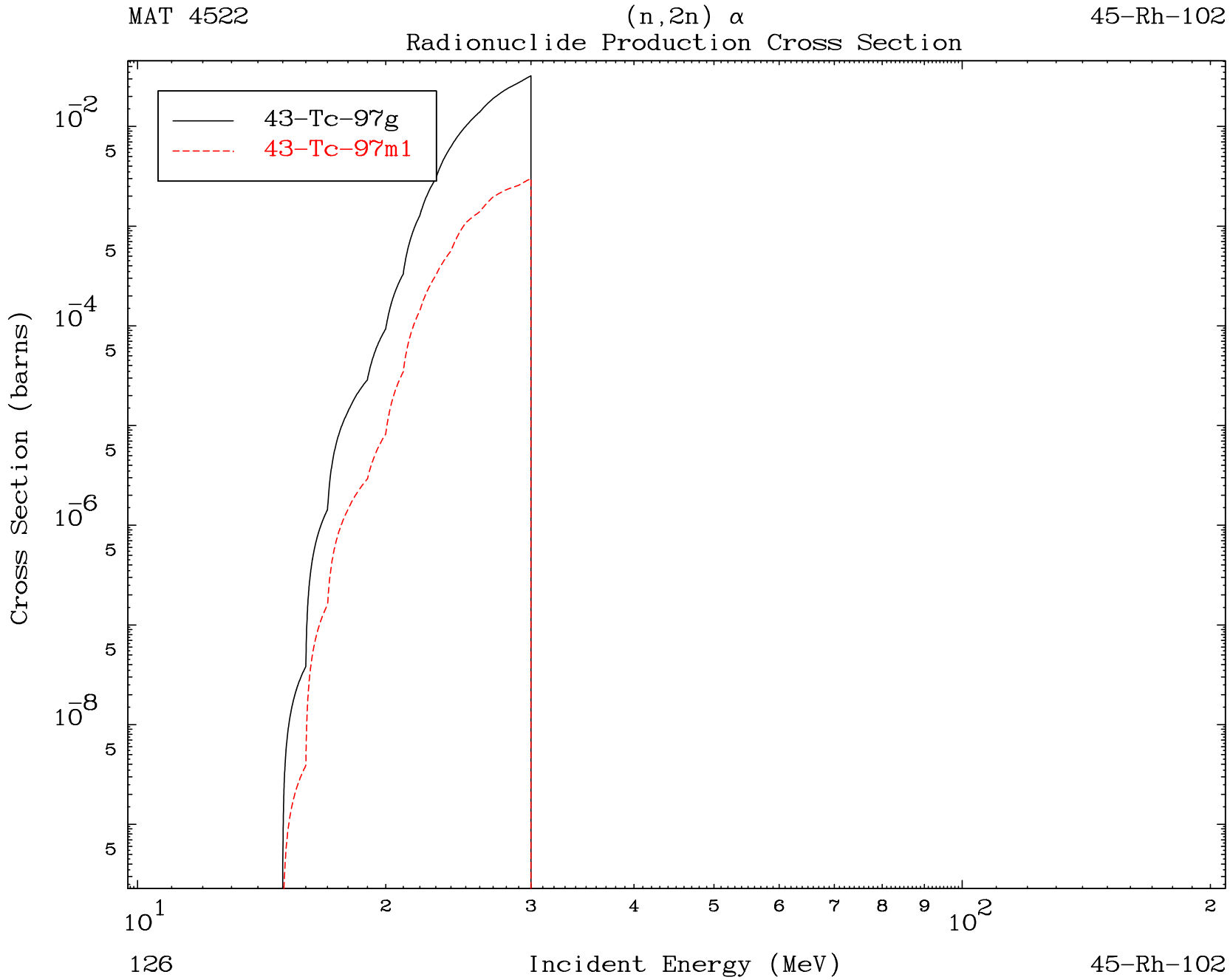

MAT 4522
MT= 80 (n,n') Level
Legendre Coefficients
45-Rh-102
X10^-4
0.5
0.0
-0.5
-1.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
121
Incident Energy (MeV)
45-Rh-102

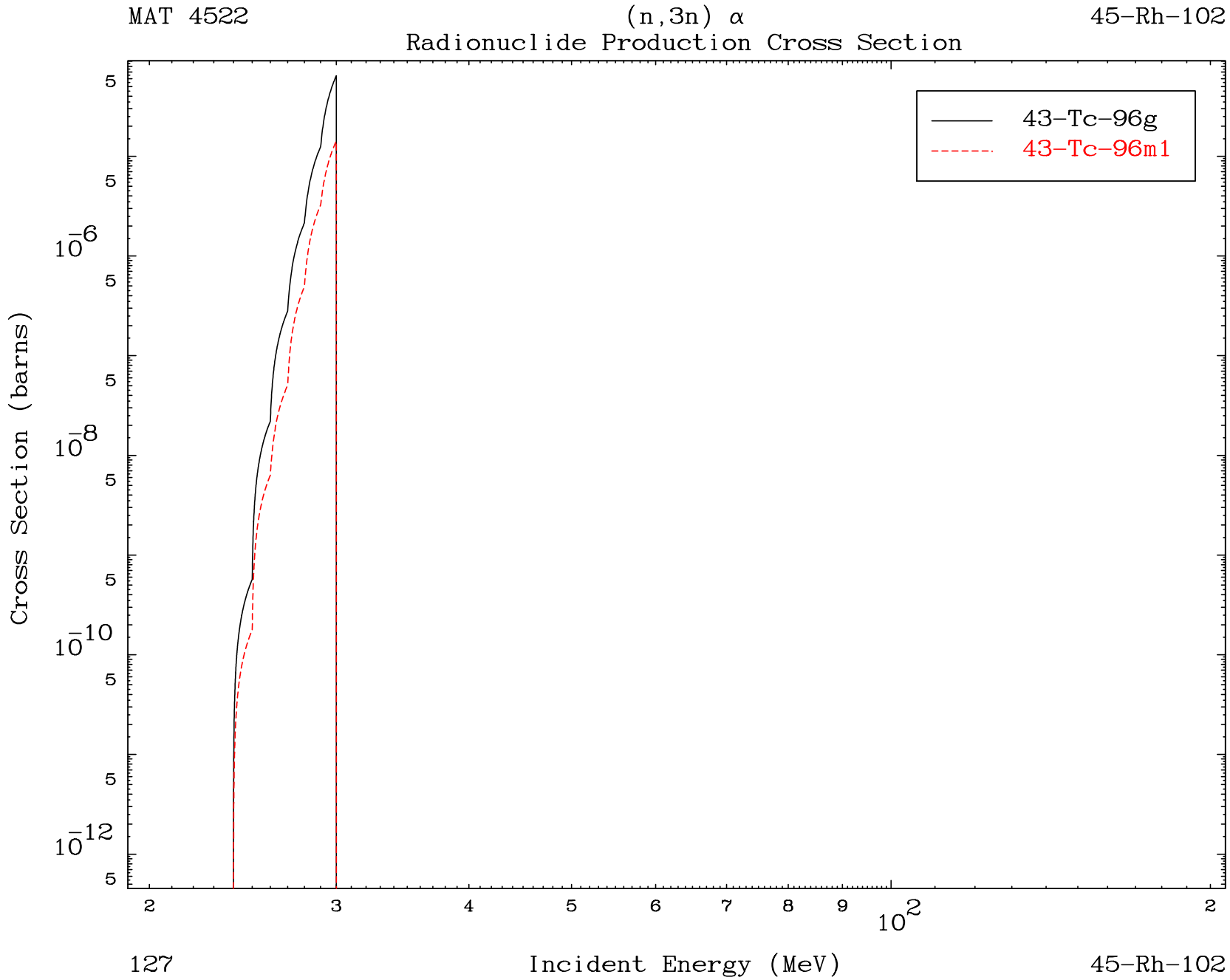

MAT 4522
MT= 80 (n,n') Level
Legendre Coefficients
45-Rh-102
0
X10^-7
-1
-2
-3
Legendre (CM)
50
100
150
200
122
Incident Energy (MeV)
45-Rh-102
P28
P29
P30
P31
P32
P33
P34

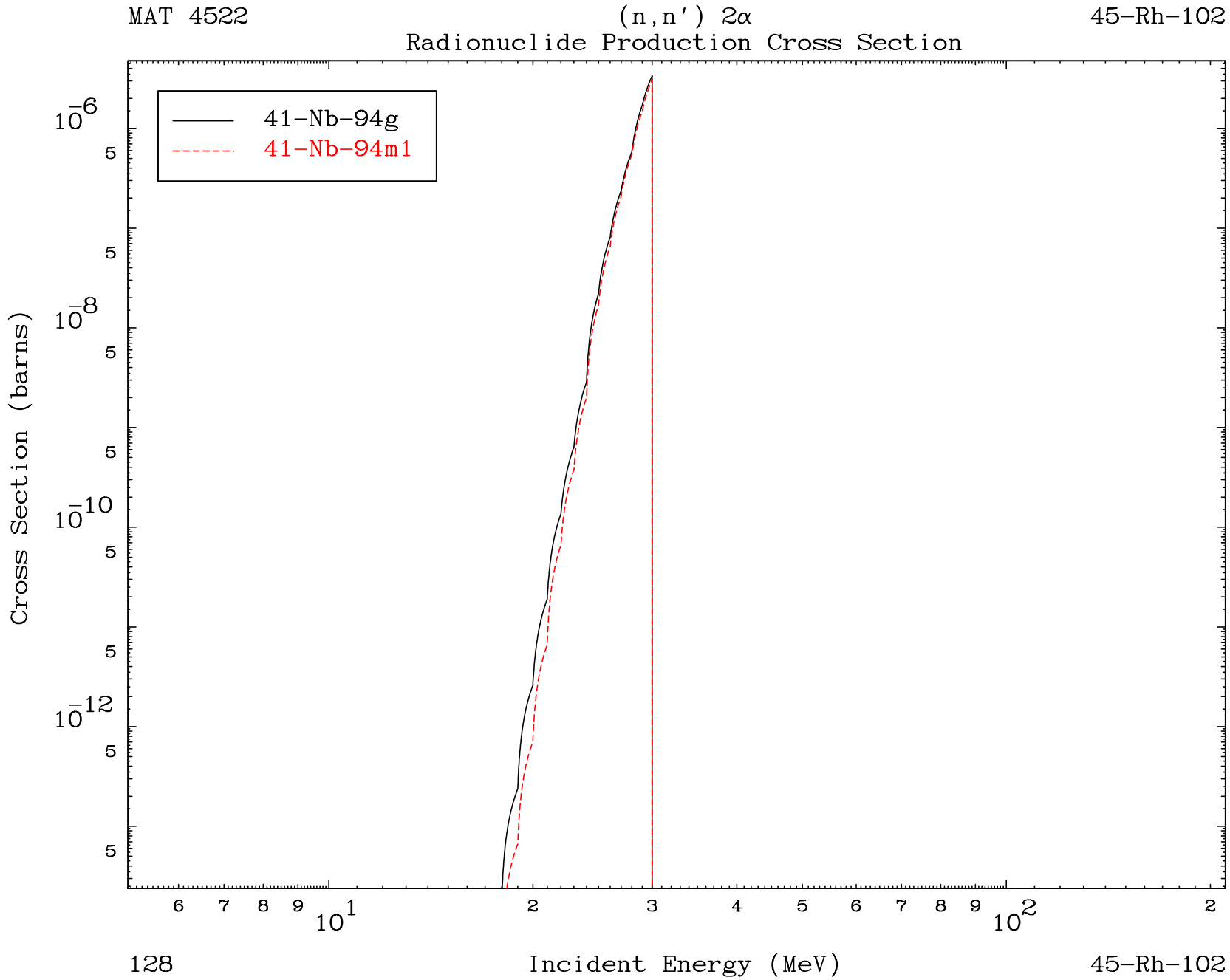

MAT 4522
Inelastic
Radionuclide Production Cross Section
45-Rh-102
45-Rh-102g
45-Rh-102m5
Cross Section (barns)
Incident Energy (MeV)
123
45-Rh-102

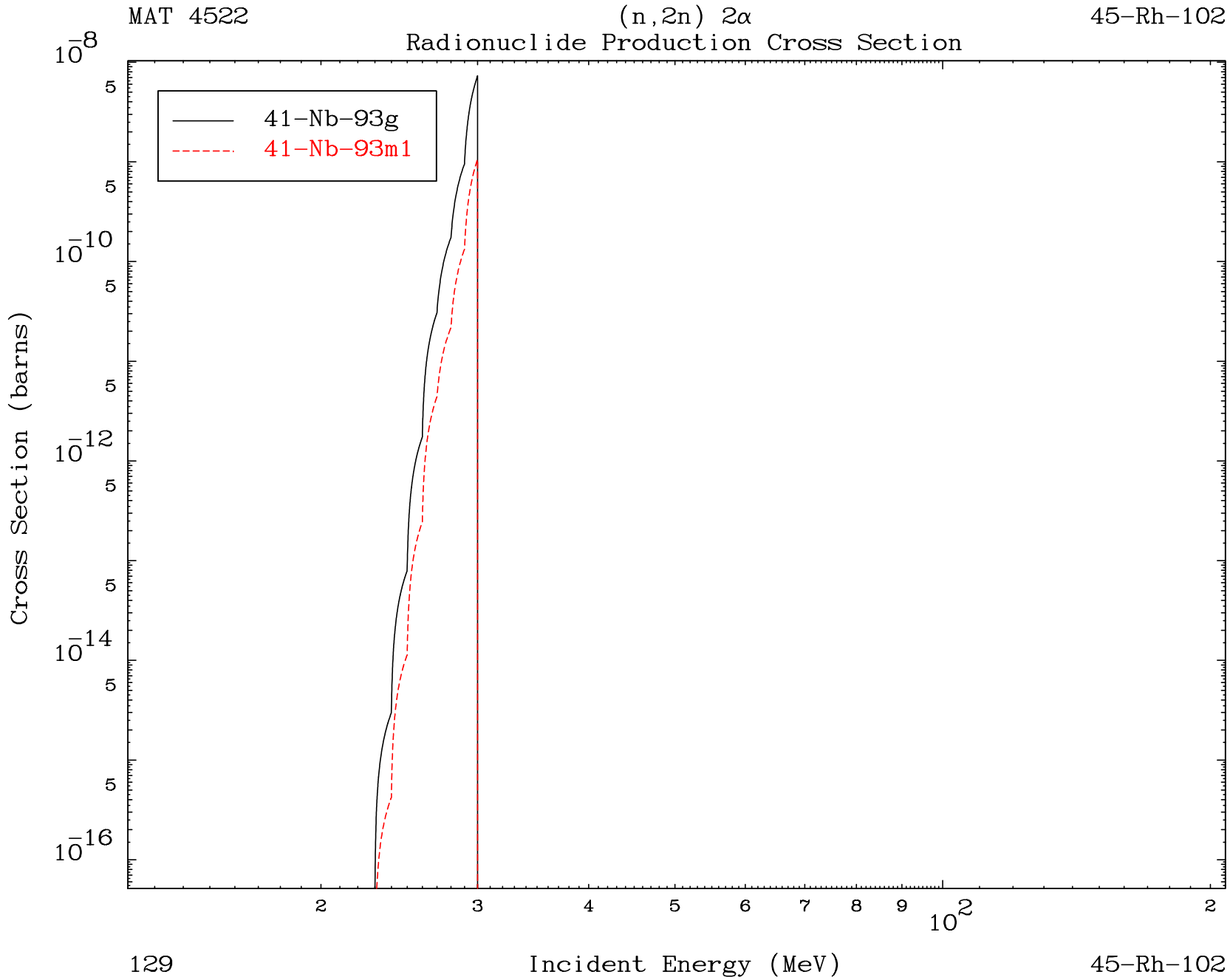

MAT 4522
(n,2n)
45-Rh-102
Radionuclide Production Cross Section
Cross Section (barns)
Incident Energy (MeV)
45-Rh-101g
45-Rh-101m1
124
45-Rh-102

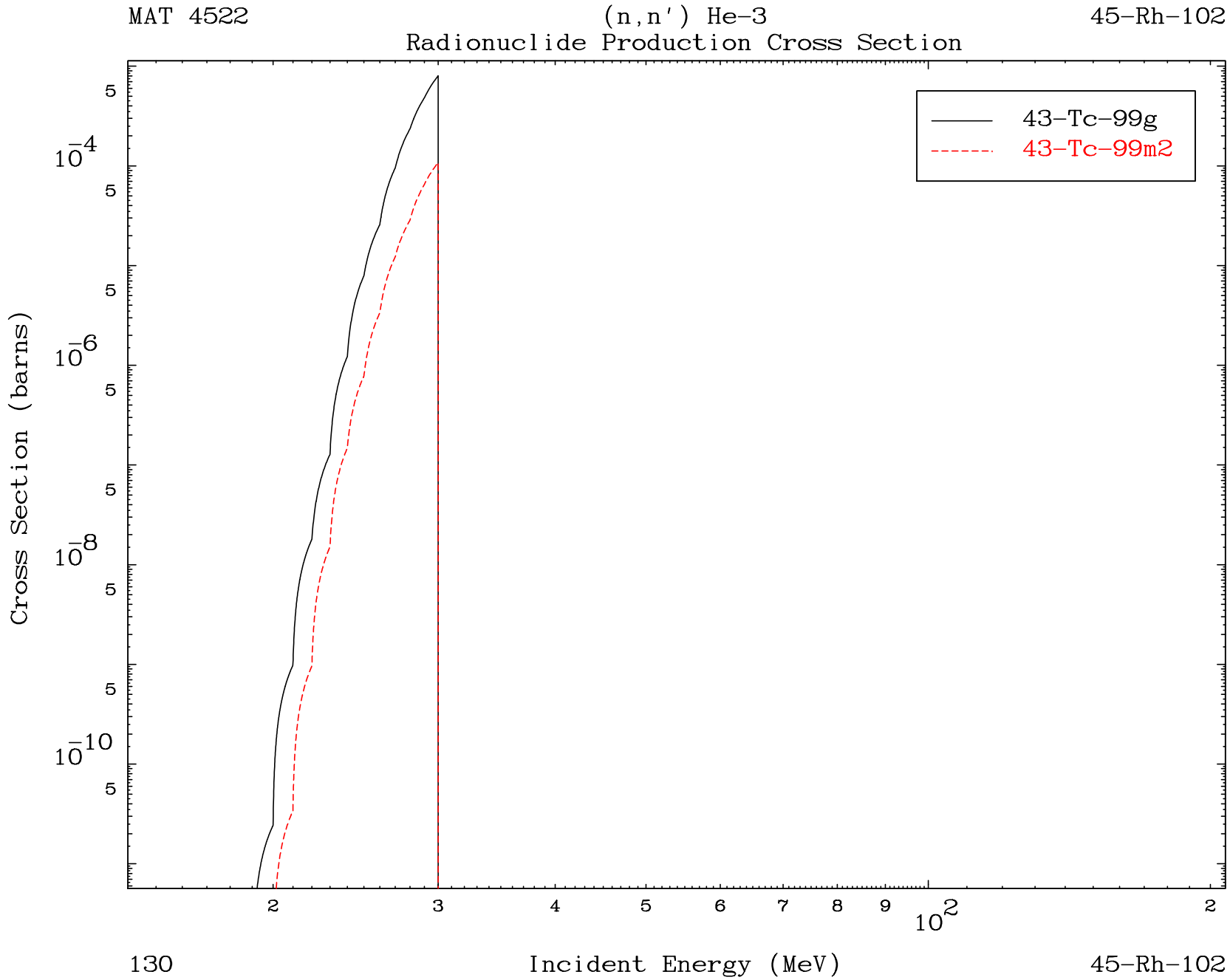

MAT 4522
(n,3n)
45-Rh-102
Radionuclide Production Cross Section
45-Rh-100g
45-Rh-100m4
Cross Section (barns)
Incident Energy (MeV)
125
45-Rh-102

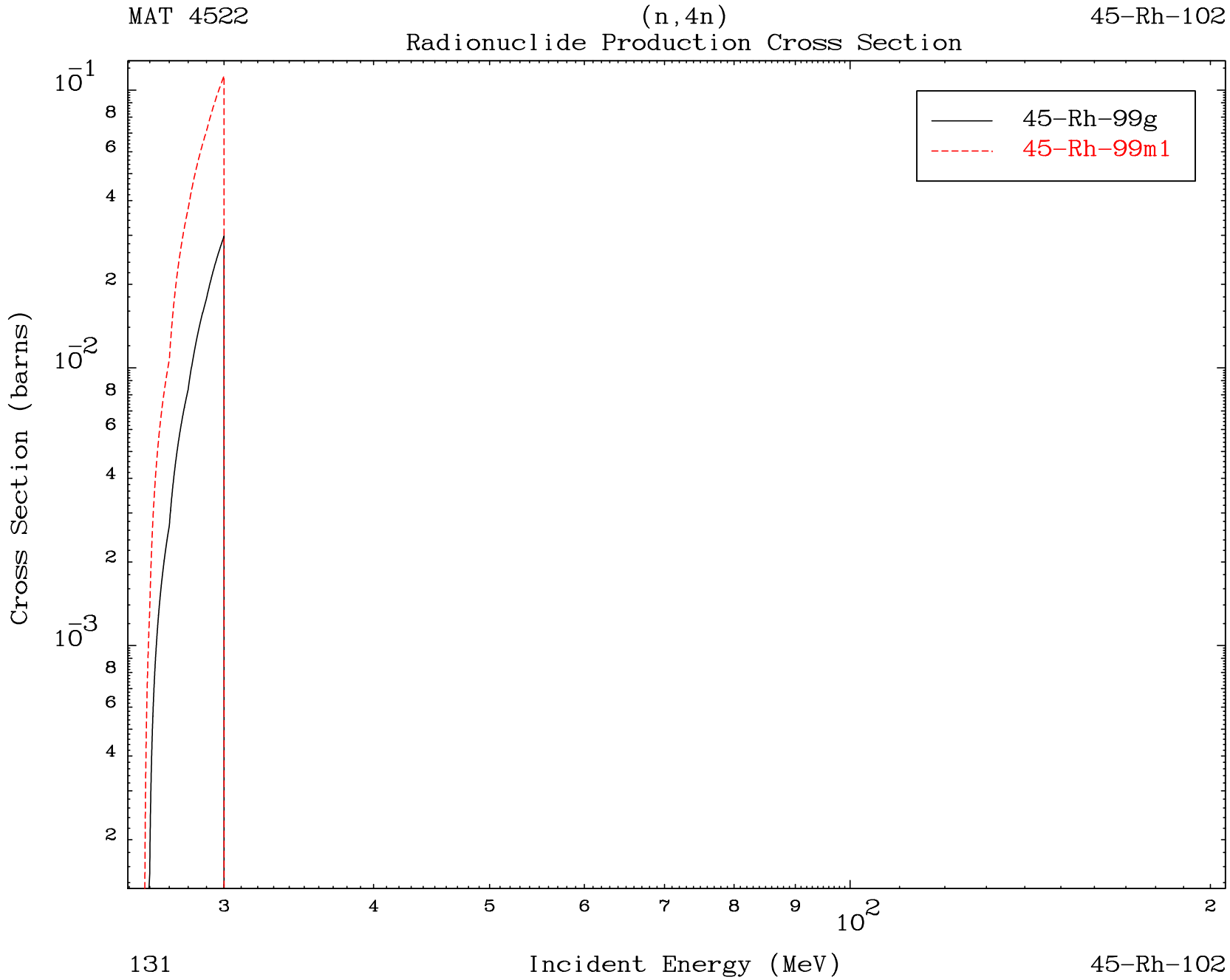

MAT 4522
(n,2n) α
45-Rh-102
Radionuclide Production Cross Section
43-Tc-97g
43-Tc-97m1
Cross Section (barns)
Incident Energy (MeV)
126
45-Rh-102

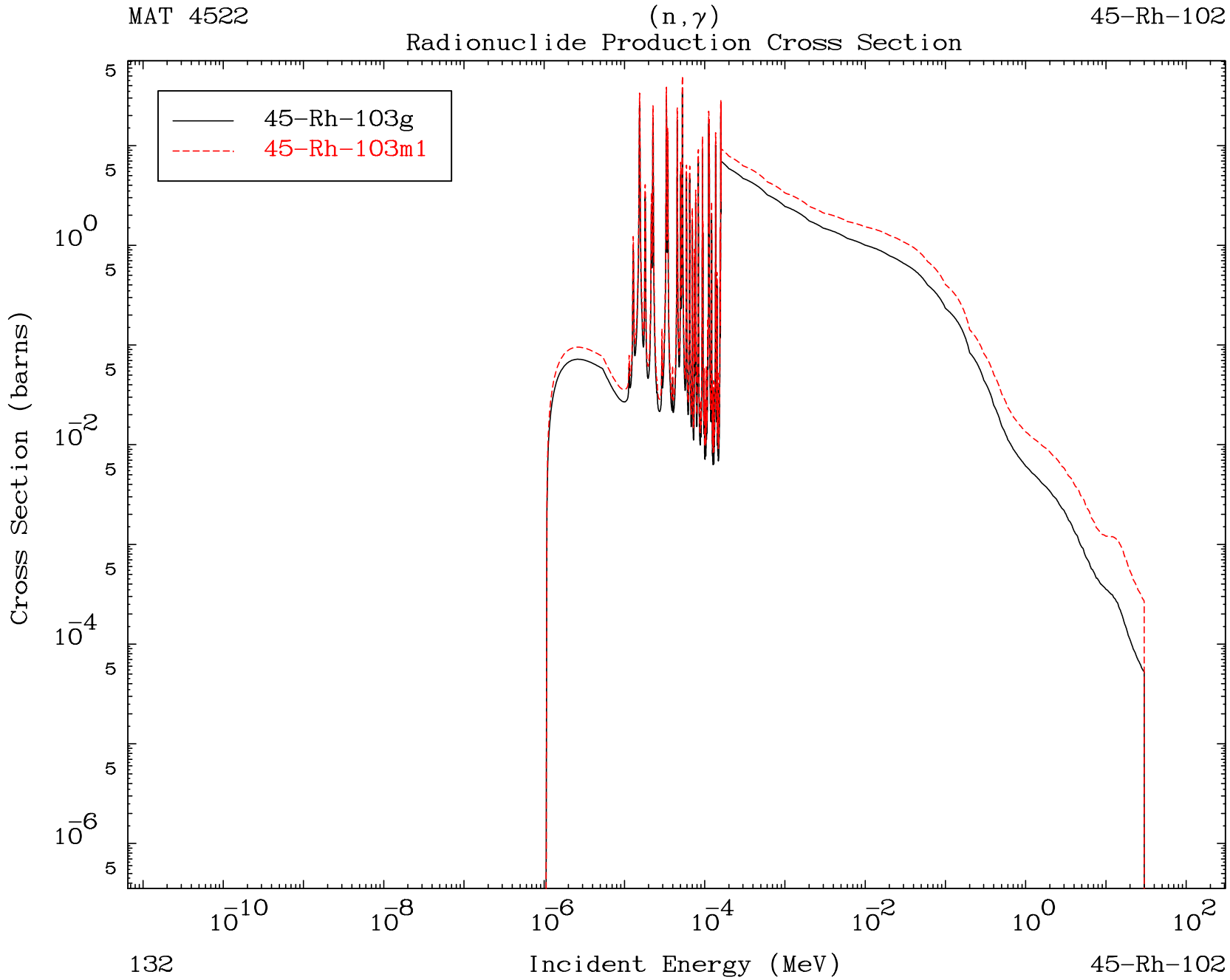

MAT 4522
(n,3n) α
45-Rh-102
Radionuclide Production Cross Section
43-Tc-96g
43-Tc-96m1
Cross Section (barns)
Incident Energy (MeV)
127
45-Rh-102

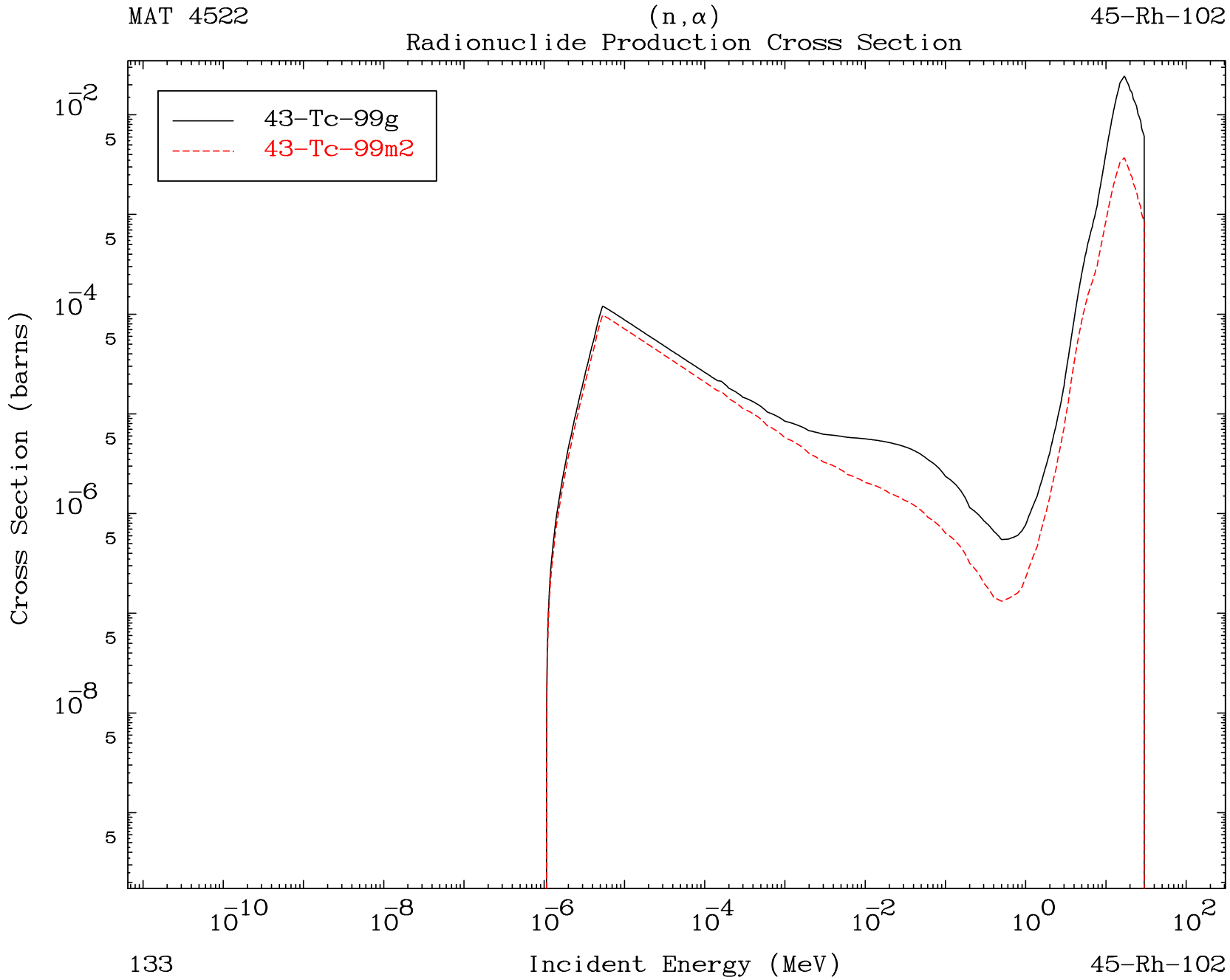

MAT 4522
(n,n') 2α
45-Rh-102
Radionuclide Production Cross Section
41-Nb-94g
41-Nb-94m1
Cross Section (barns)
Incident Energy (MeV)
128
45-Rh-102

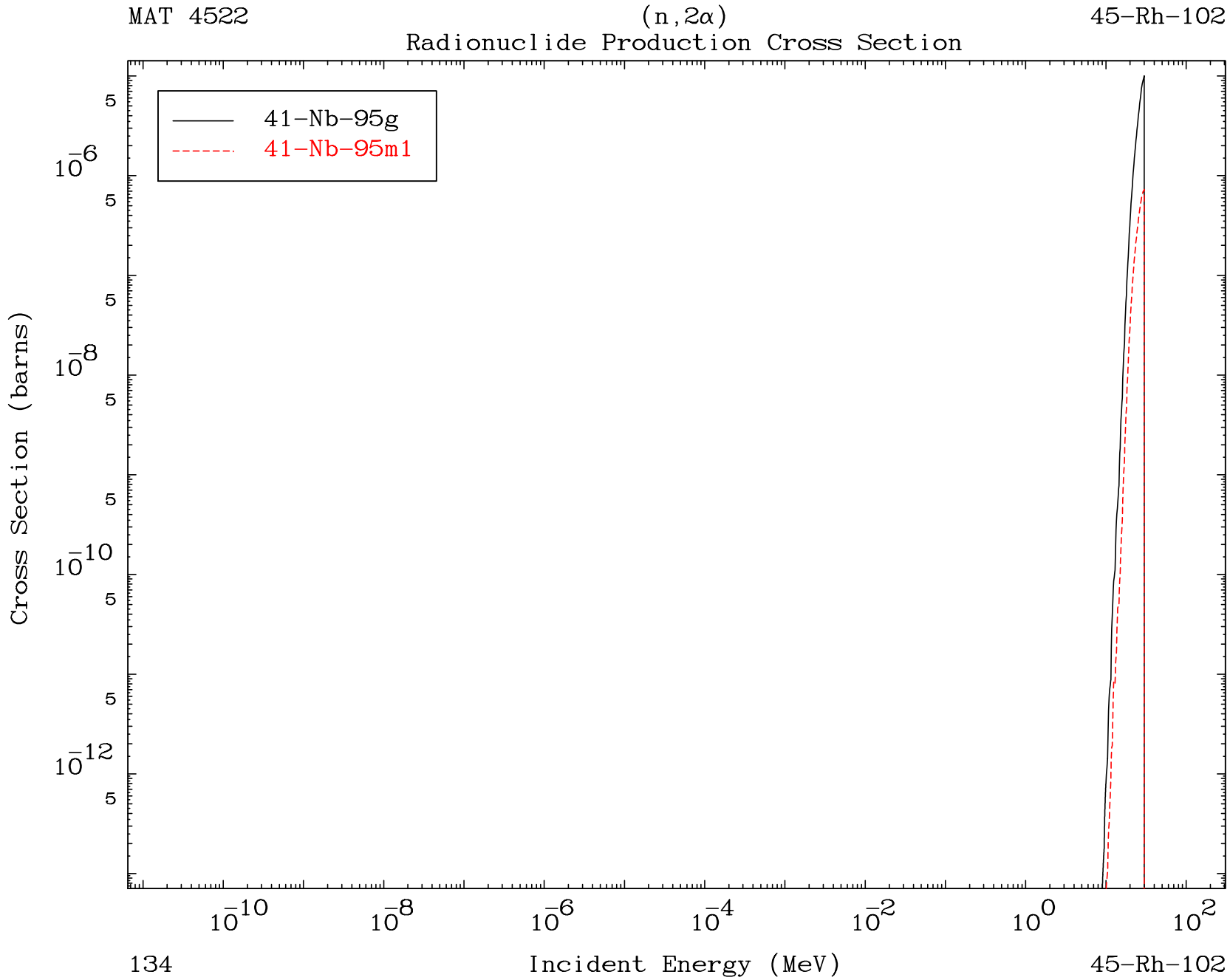

MAT 4522
(n,2n) 2α
45-Rh-102
Radionuclide Production Cross Section
41-Nb-93g
41-Nb-93m1
Cross Section (barns)
Incident Energy (MeV)
129
45-Rh-102

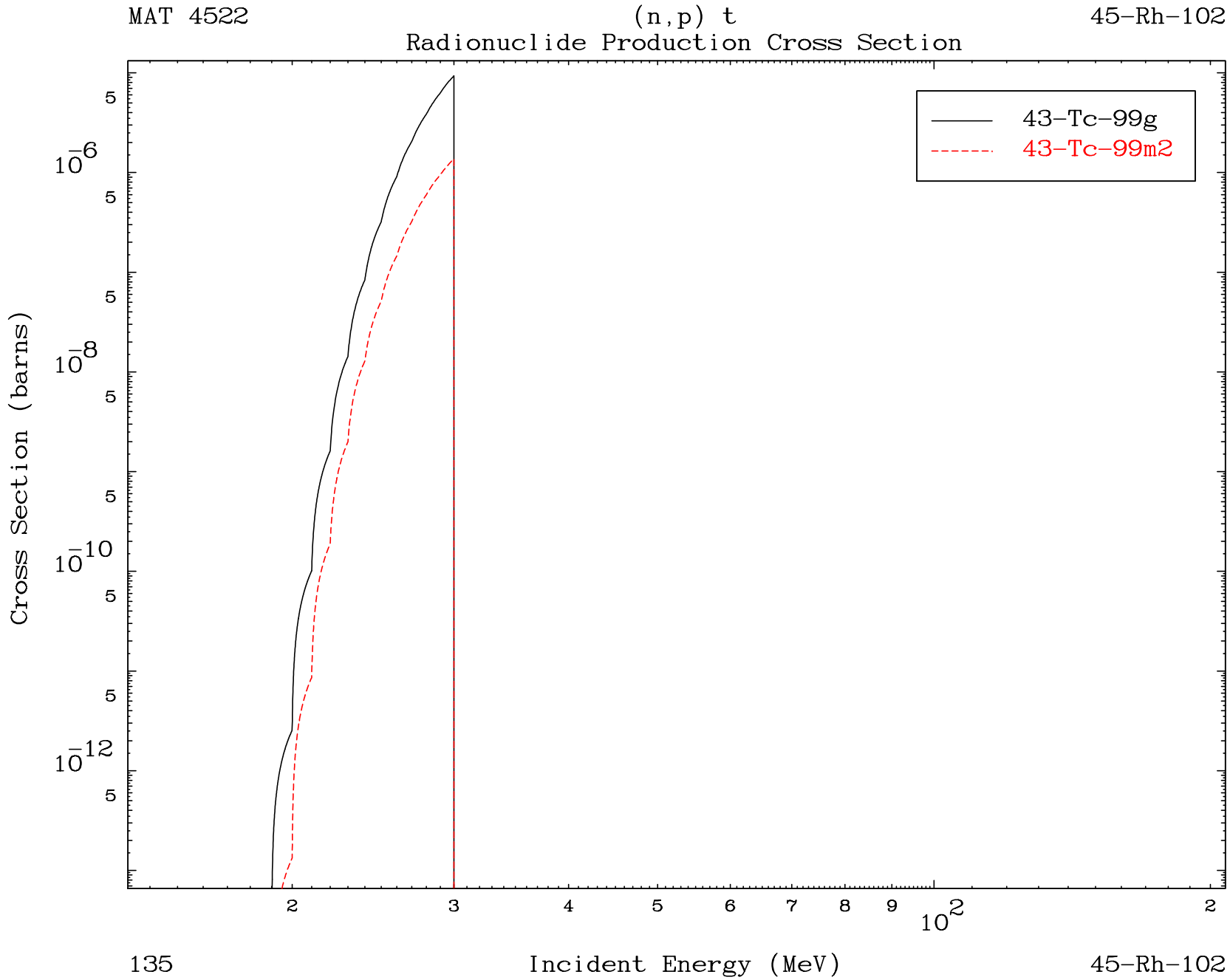

MAT 4522
(n,n') He-3
45-Rh-102
Radionuclide Production Cross Section
43-Tc-99g
43-Tc-99m2
Cross Section (barns)
Incident Energy (MeV)
130
45-Rh-102


MAT 4522
(n,4n)
45-Rh-102
Radionuclide Production Cross Section
45-Rh-99g
45-Rh-99m1
Cross Section (barns)
Incident Energy (MeV)
131
45-Rh-102


MAT 4522
(n,γ)
45-Rh-102
Radionuclide Production Cross Section
45-Rh-103g
45-Rh-103m1
Cross Section (barns)
Incident Energy (MeV)
132
45-Rh-102


MAT 4522
(n,α)
45-Rh-102
Radionuclide Production Cross Section
43-Tc-99g
43-Tc-99m2
Cross Section (barns)
Incident Energy (MeV)
133
45-Rh-102


MAT 4522
(n,2α)
45-Rh-102
Radionuclide Production Cross Section
41-Nb-95g
41-Nb-95m1
Cross Section (barns)
Incident Energy (MeV)
134
45-Rh-102


MAT 4522
(n,p) t
45-Rh-102
Radionuclide Production Cross Section
43-Tc-99g
43-Tc-99m2
Cross Section (barns)
Incident Energy (MeV)
135
45-Rh-102