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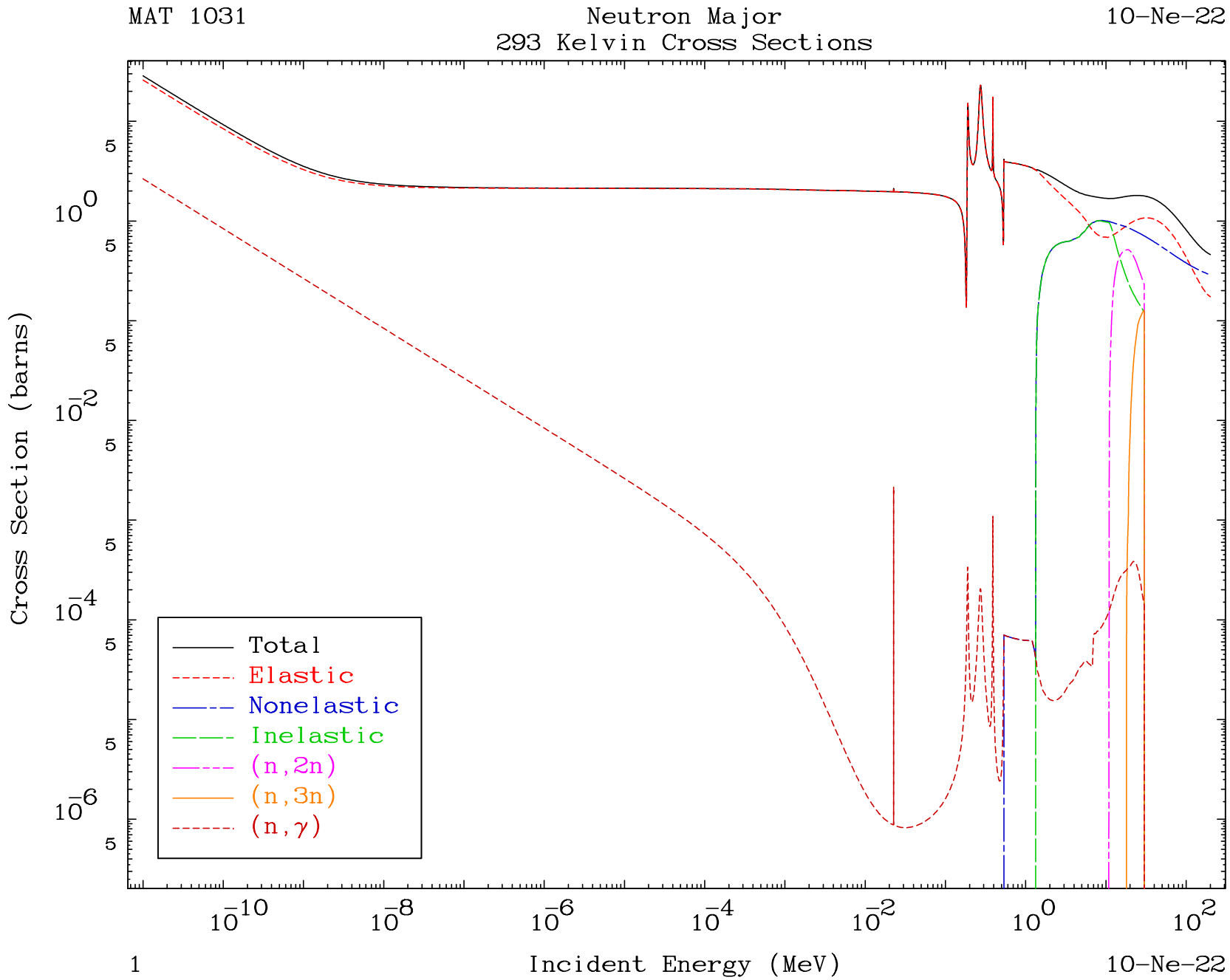
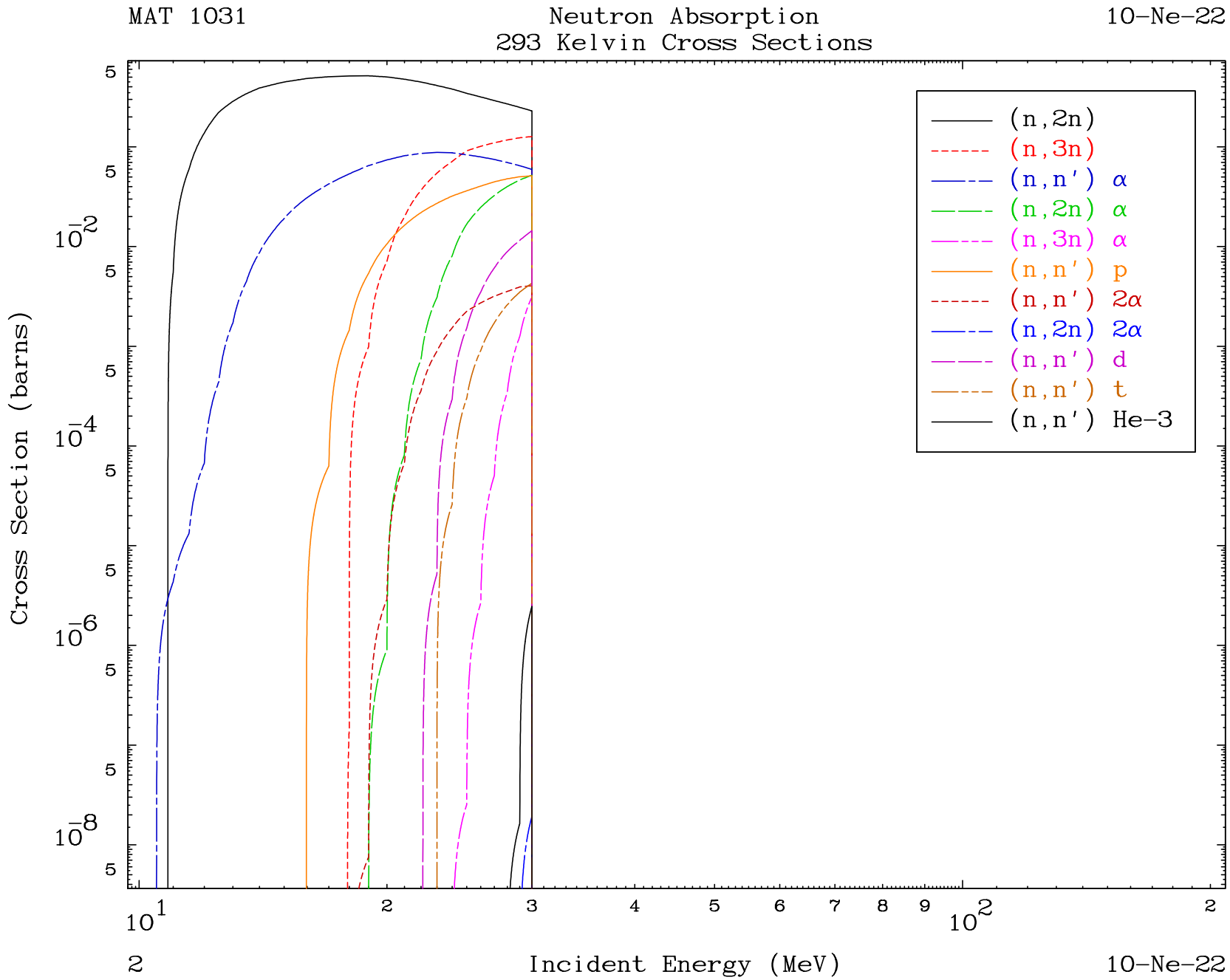
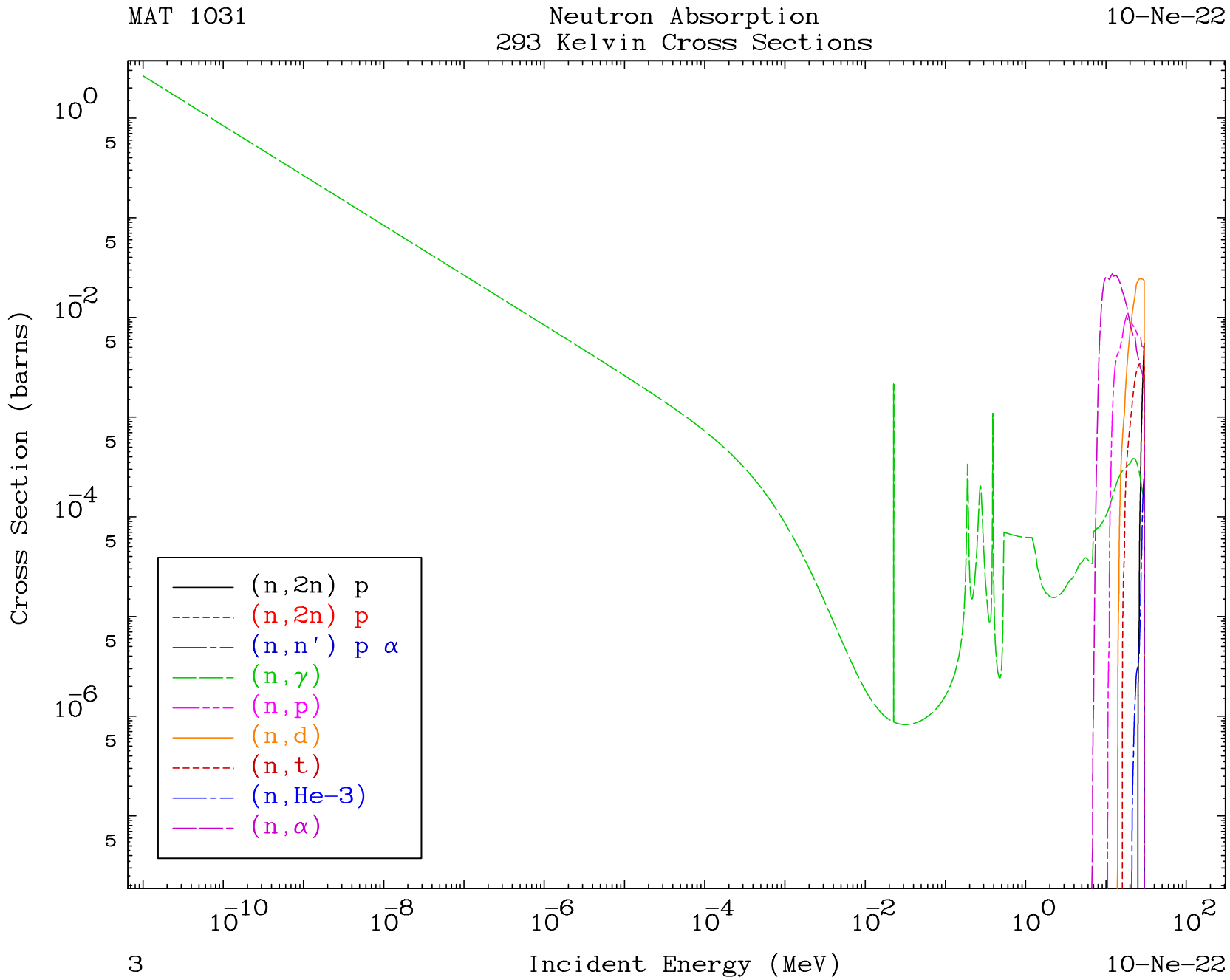
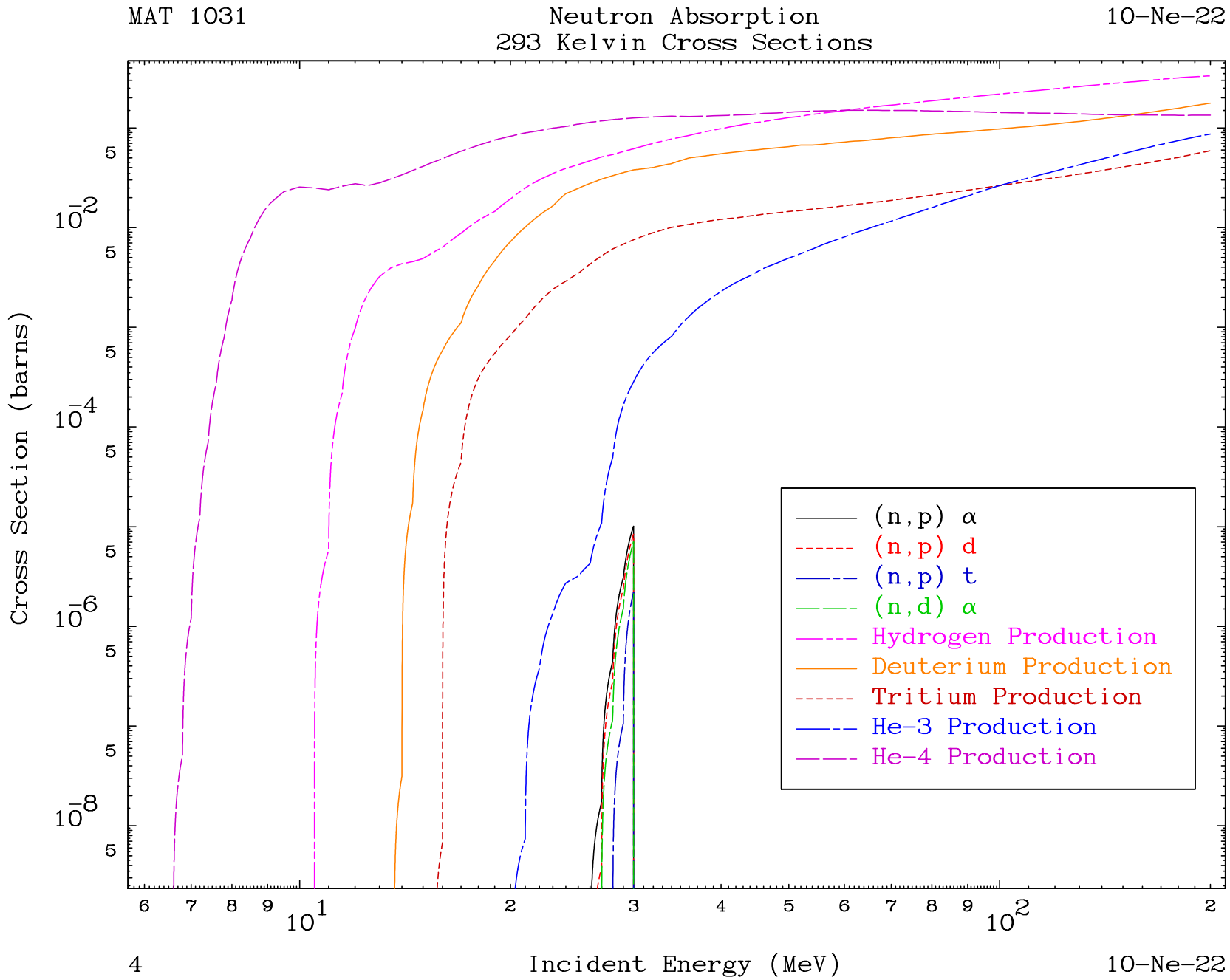
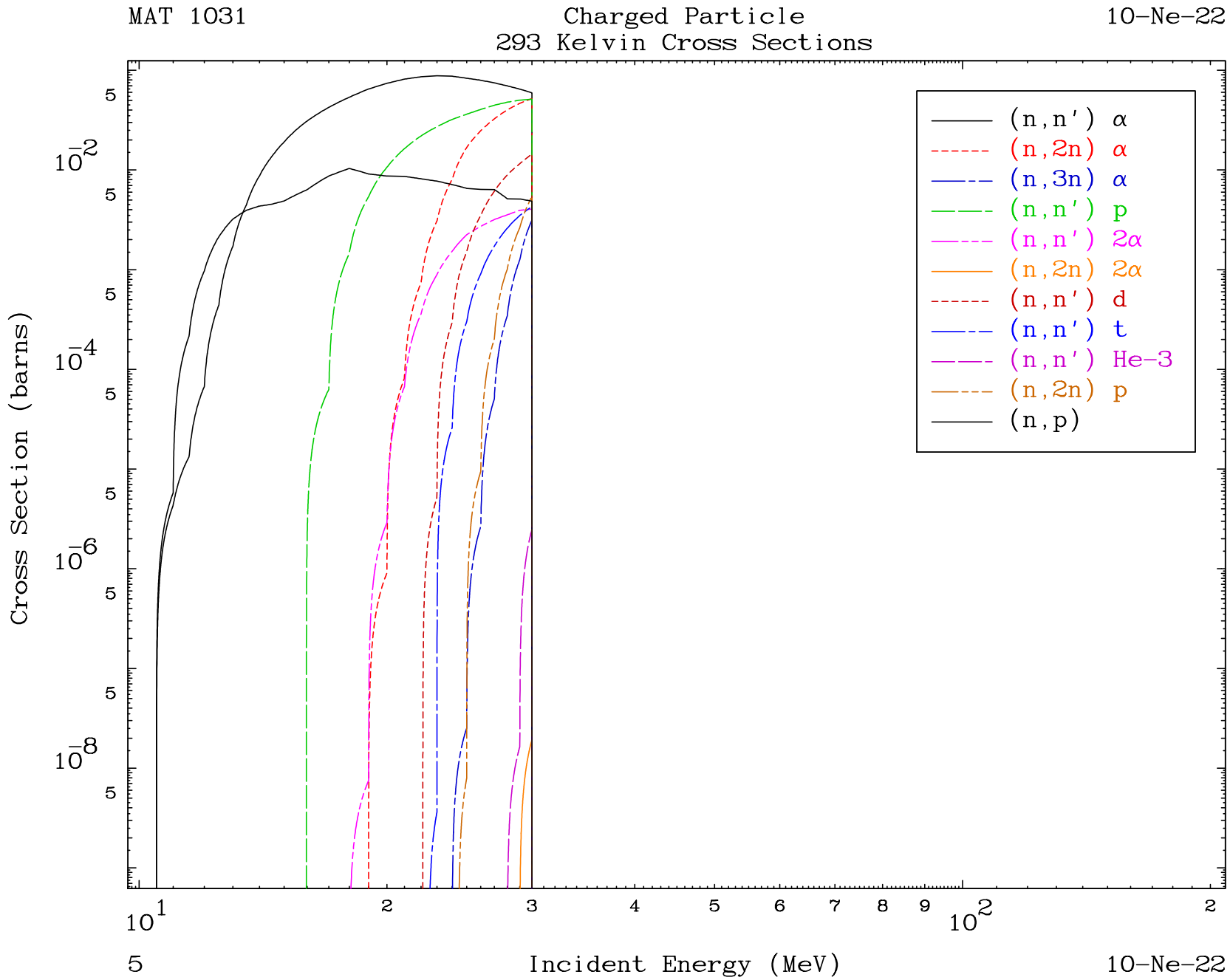
Press Mouse Button to Start

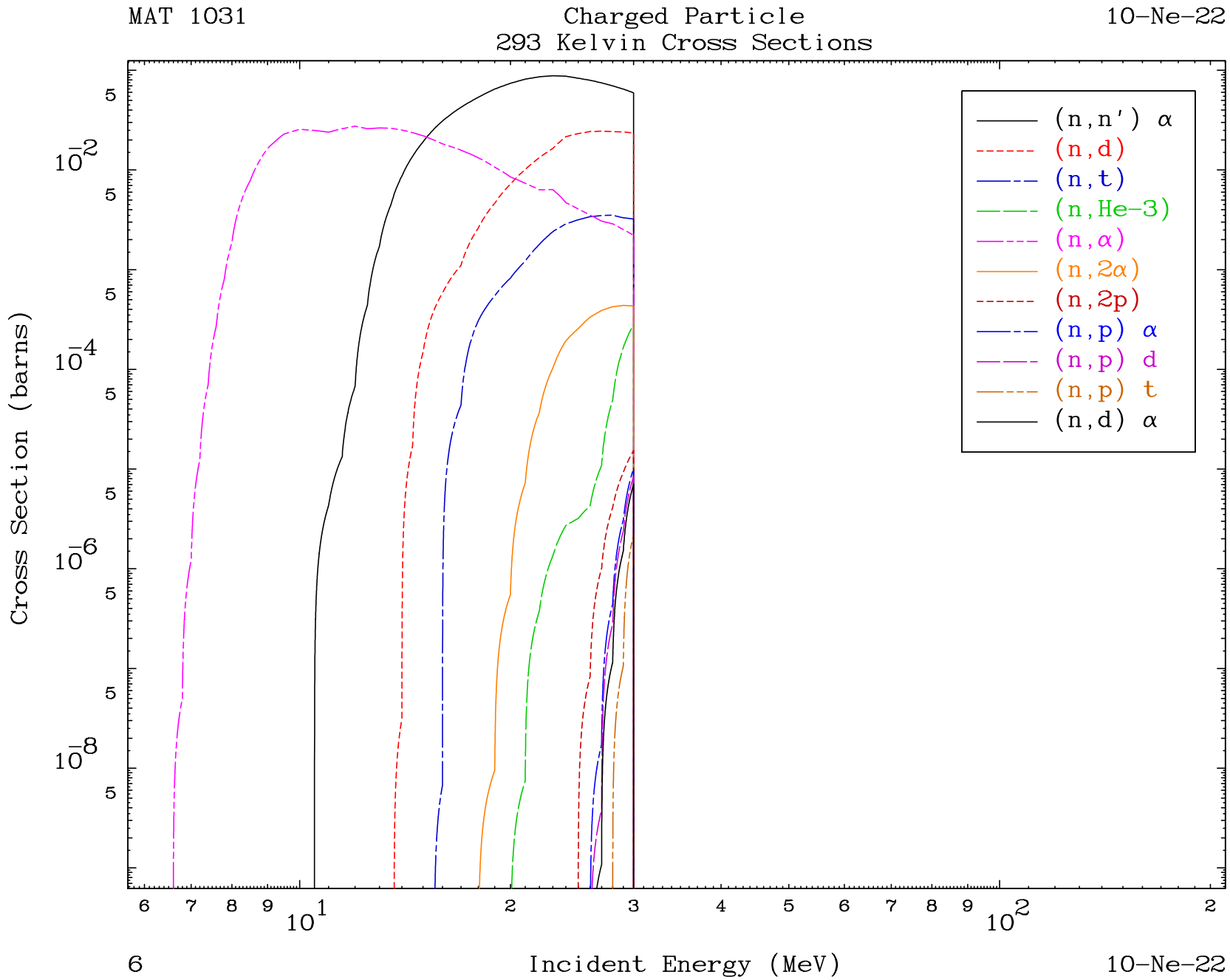

MAT 1031
Neutron Major
293 Kelvin Cross Sections
10-Ne-22
Cross Section (barns)
Incident Energy (MeV)
Total
Elastic
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)
1
10-Ne-22

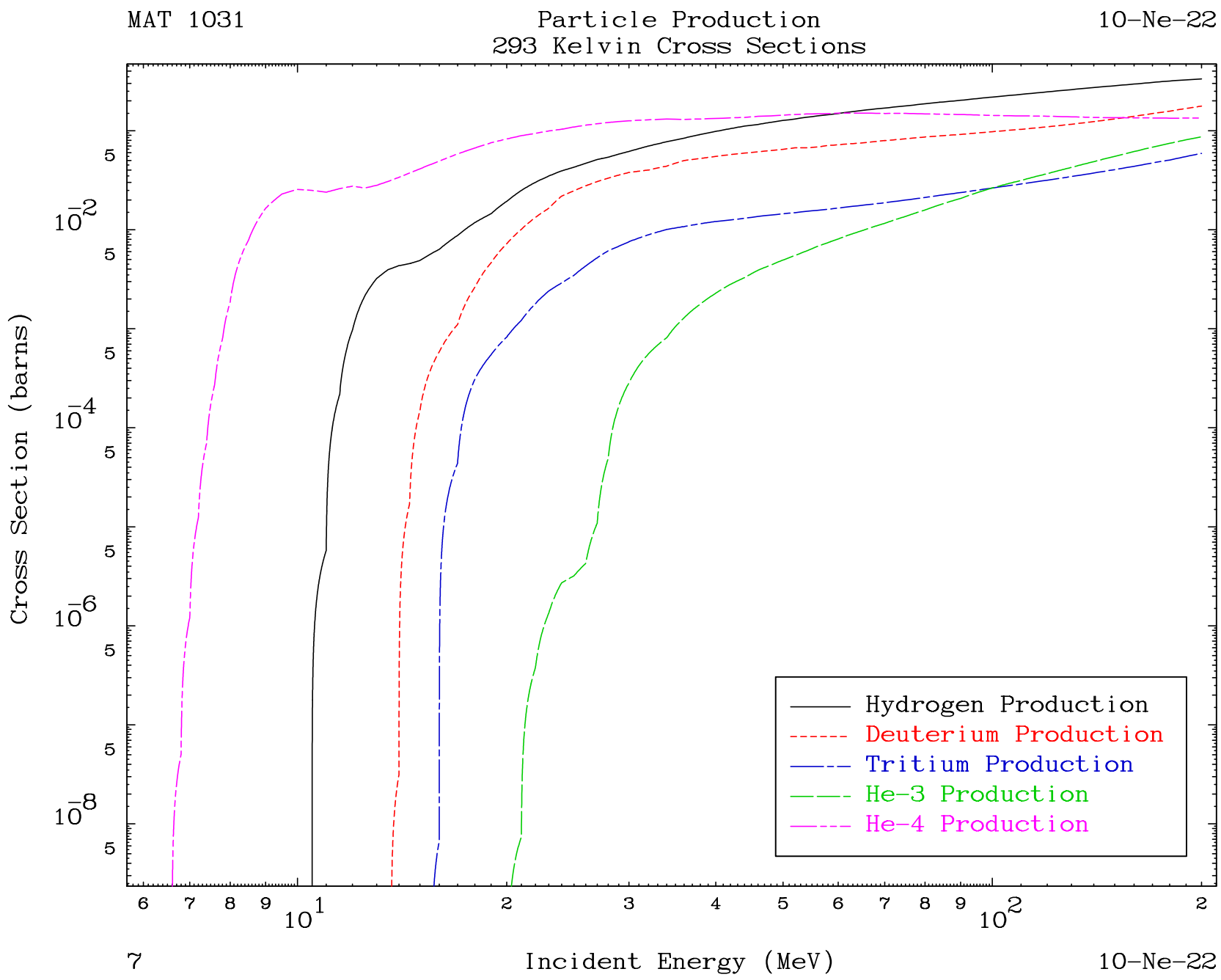

MAT 1031
Neutron Absorption
293 Kelvin Cross Sections
10-Ne-22
Cross Section (barns)
Incident Energy (MeV)
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,2n) 2α
(n,n') d
(n,n') t
(n,n') He-3
10-Ne-22

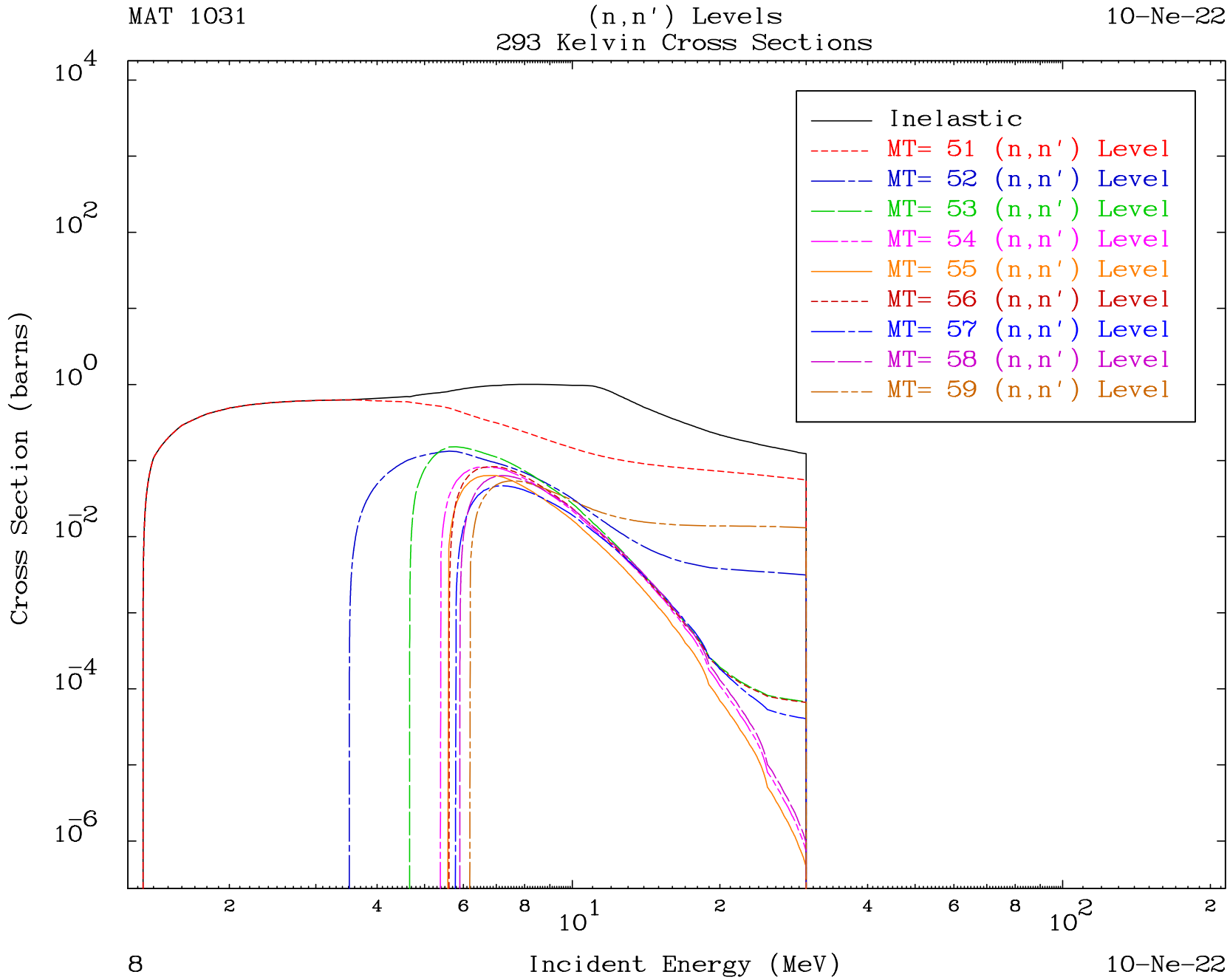

MAT 1031
Neutron Absorption
293 Kelvin Cross Sections
10-Ne-22
Cross Section (barns)
Incident Energy (MeV)
(n,2n) p
(n,2n) p
(n,n') p α
(n,γ)
(n,p)
(n,d)
(n,t)
(n,He-3)
(n,α)
3
10-Ne-22

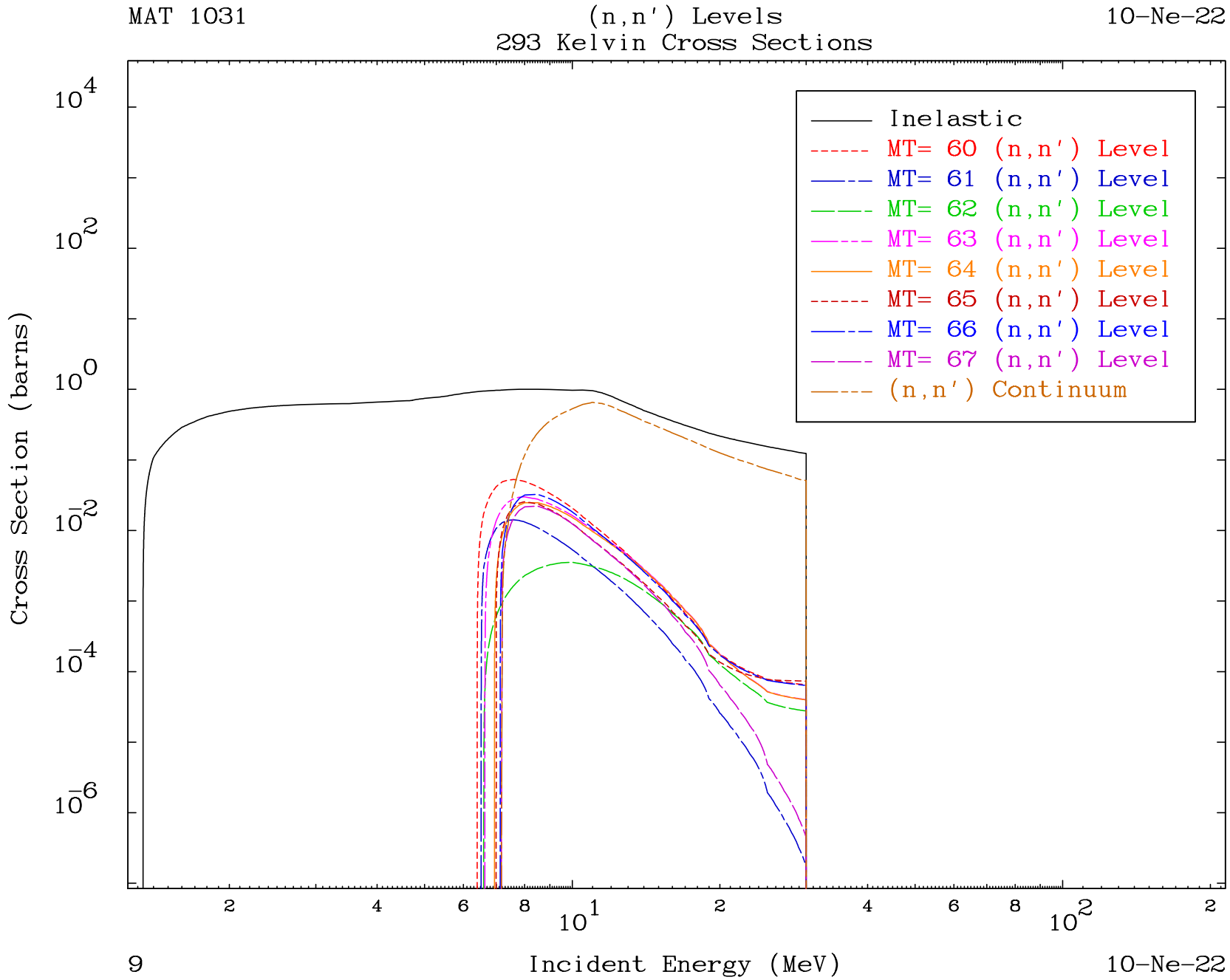

MAT 1031
Neutron Absorption
293 Kelvin Cross Sections
10-Ne-22
Cross Section (barns)
Incident Energy (MeV)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production
4
10-Ne-22

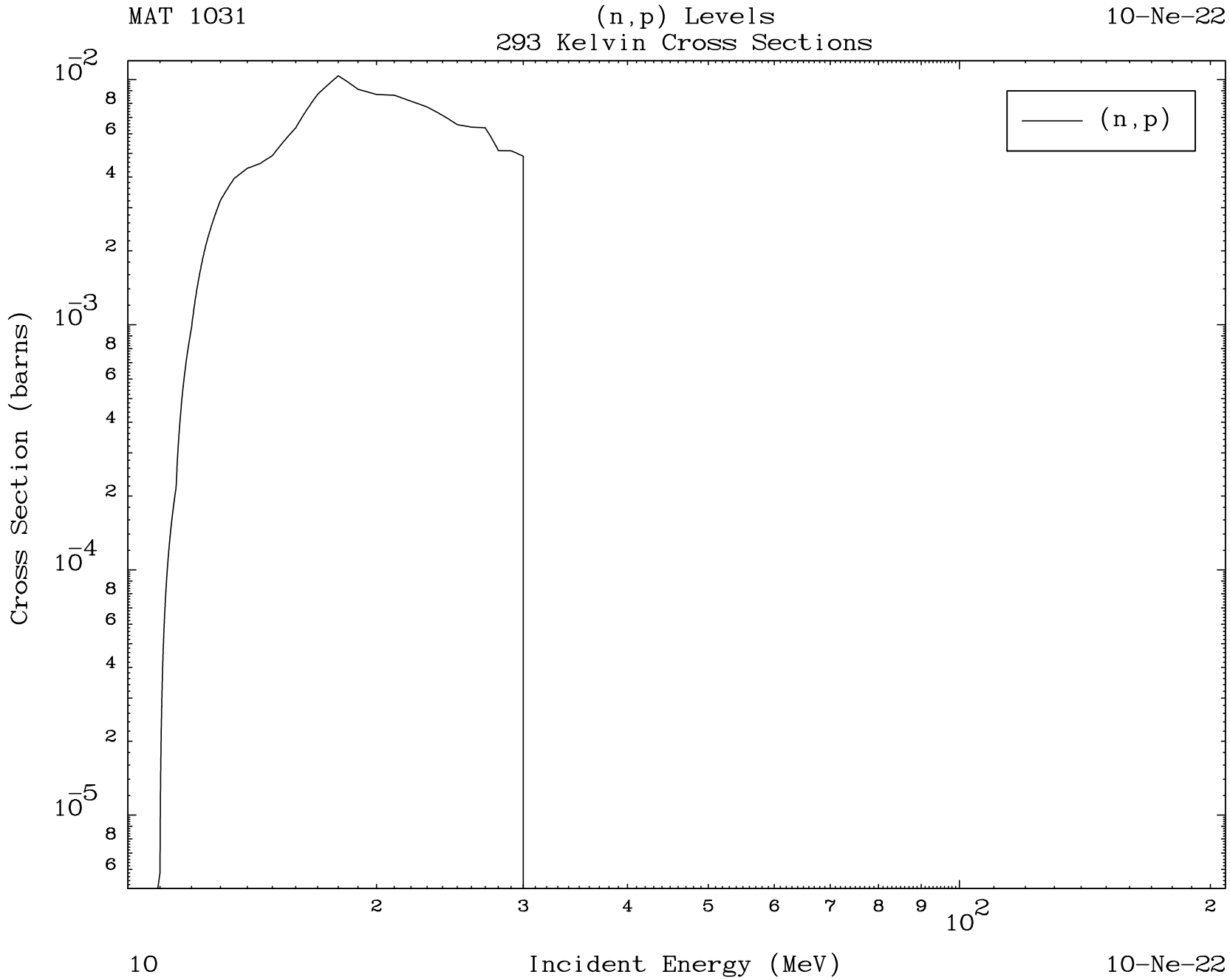

MAT 1031
Charged Particle
293 Kelvin Cross Sections
10-Ne-22
Cross Section (barns)
Incident Energy (MeV)
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,2n) 2α
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
(n,p)
5
10-Ne-22


MAT 1031
Charged Particle
293 Kelvin Cross Sections
10-Ne-22
Cross Section (barns)
Incident Energy (MeV)
(n,n') α
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
6
10-Ne-22

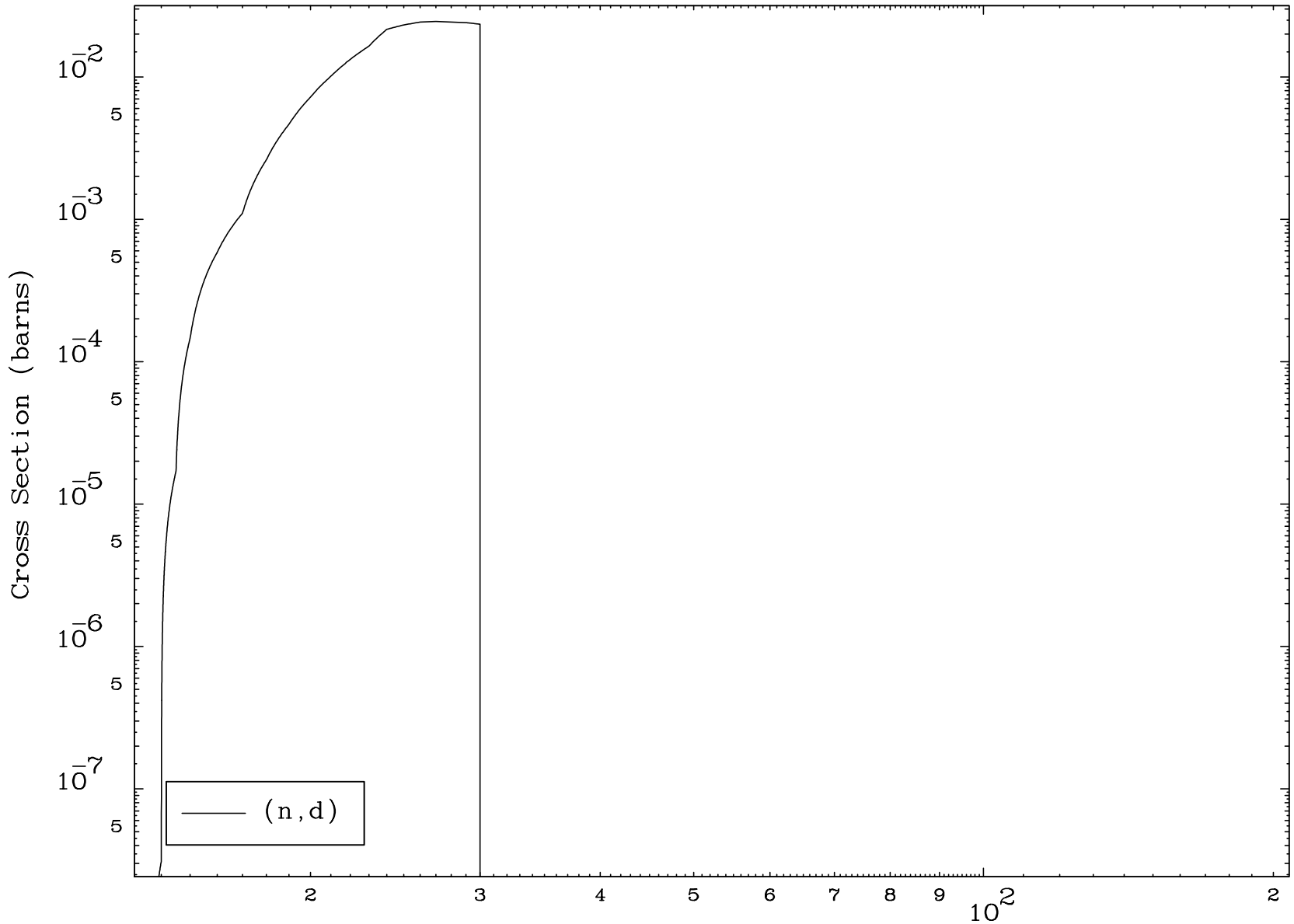

MAT 1031
Particle Production
293 Kelvin Cross Sections
10-Ne-22
Cross Section (barns)
Incident Energy (MeV)
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production
7
10-Ne-22

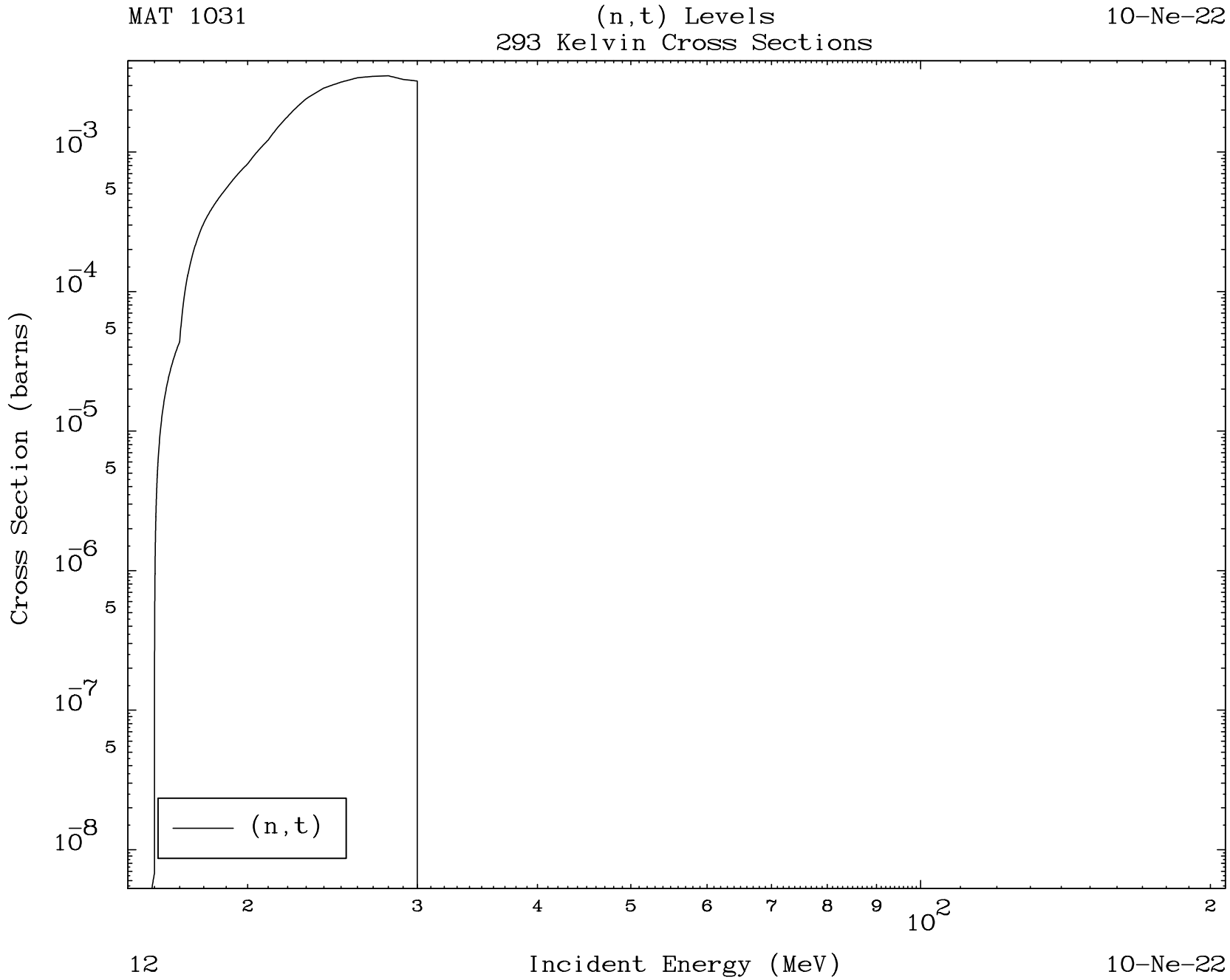

MAT 1031
(n,n') Levels
293 Kelvin Cross Sections
10-Ne-22
Inelastic
MT= 51 (n,n') Level
MT= 52 (n,n') Level
MT= 53 (n,n') Level
MT= 54 (n,n') Level
MT= 55 (n,n') Level
MT= 56 (n,n') Level
MT= 57 (n,n') Level
MT= 58 (n,n') Level
MT= 59 (n,n') Level
Cross Section (barns)
Incident Energy (MeV)
8
10-Ne-22

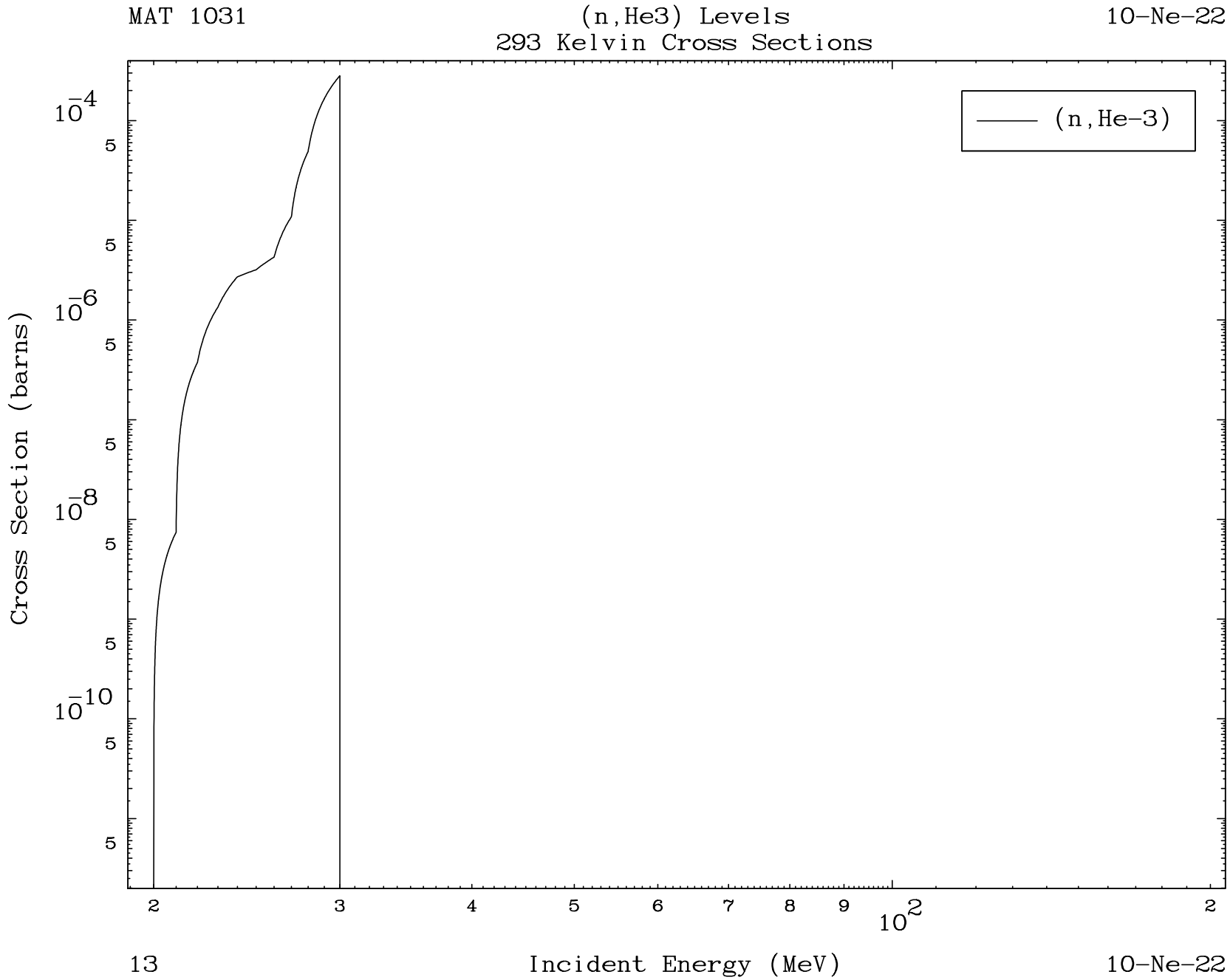

MAT 1031
(n,n') Levels
293 Kelvin Cross Sections
10-Ne-22
Inelastic
MT= 60 (n,n') Level
MT= 61 (n,n') Level
MT= 62 (n,n') Level
MT= 63 (n,n') Level
MT= 64 (n,n') Level
MT= 65 (n,n') Level
MT= 66 (n,n') Level
MT= 67 (n,n') Level
(n,n') Continuum
Cross Section (barns)
Incident Energy (MeV)
9
10-Ne-22

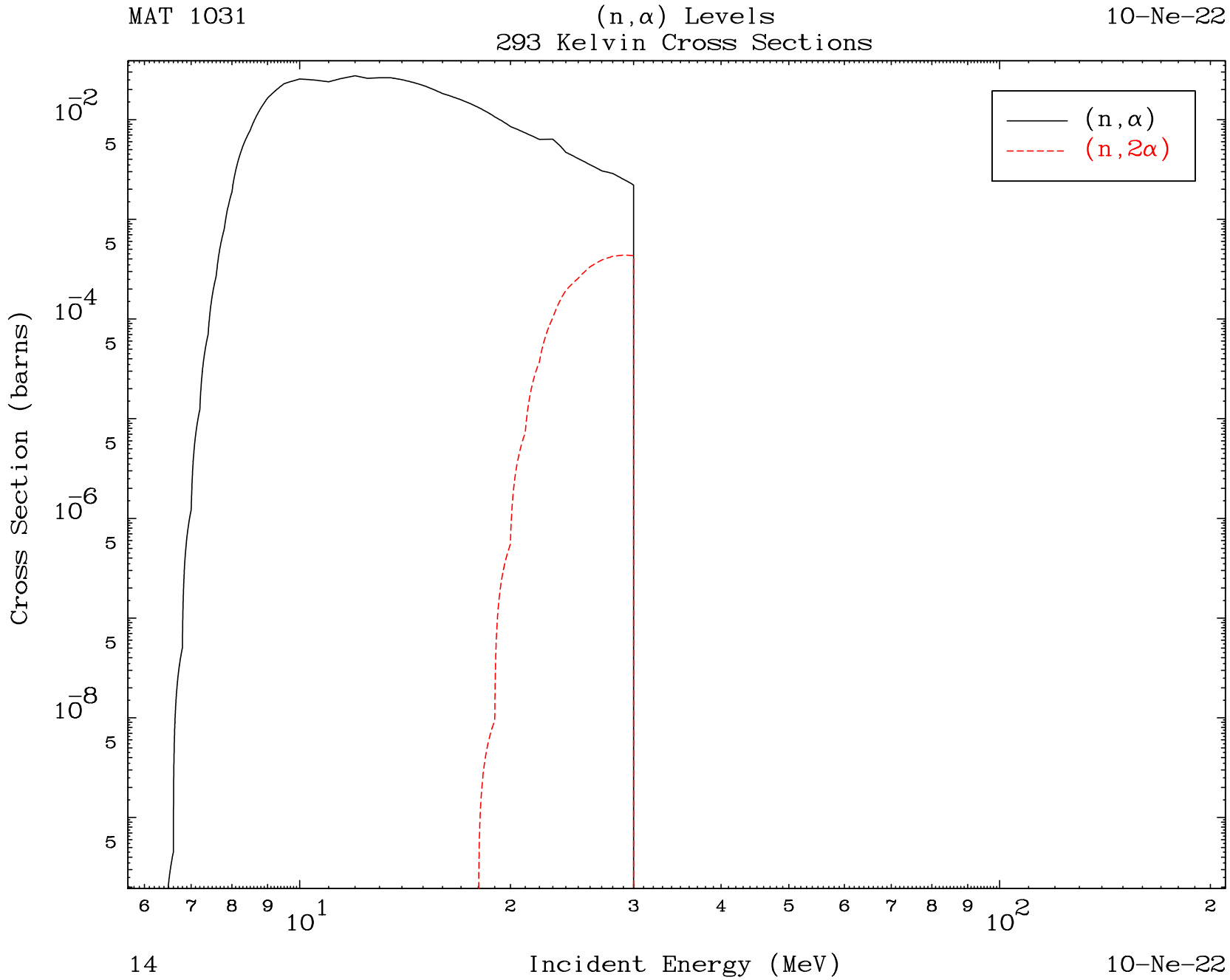

MAT 1031
(n,p) Levels
293 Kelvin Cross Sections
10-Ne-22
(n,p)
Cross Section (barns)
Incident Energy (MeV)
10
10-Ne-22

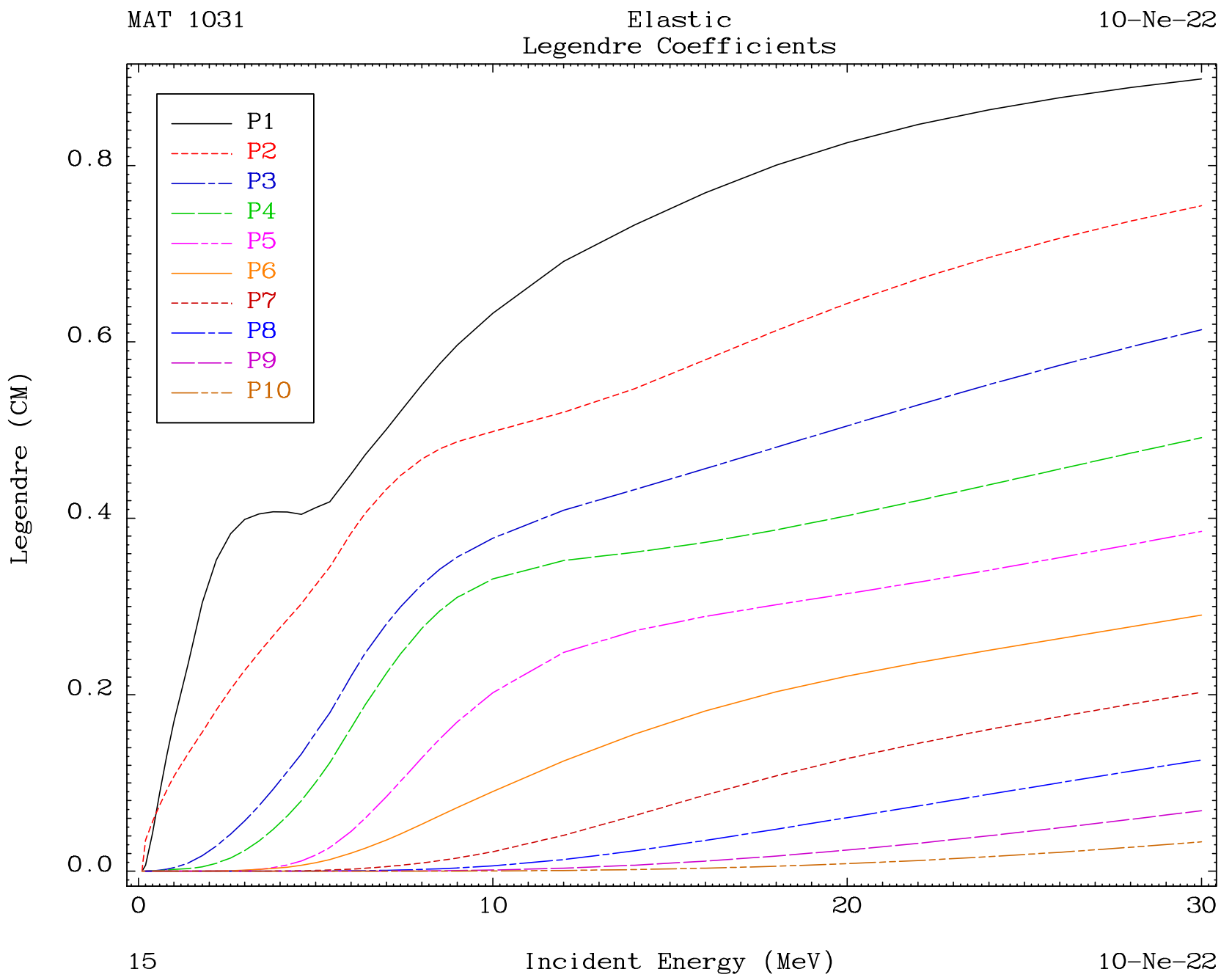
(n,d) Levels
293 Kelvin Cross Sections

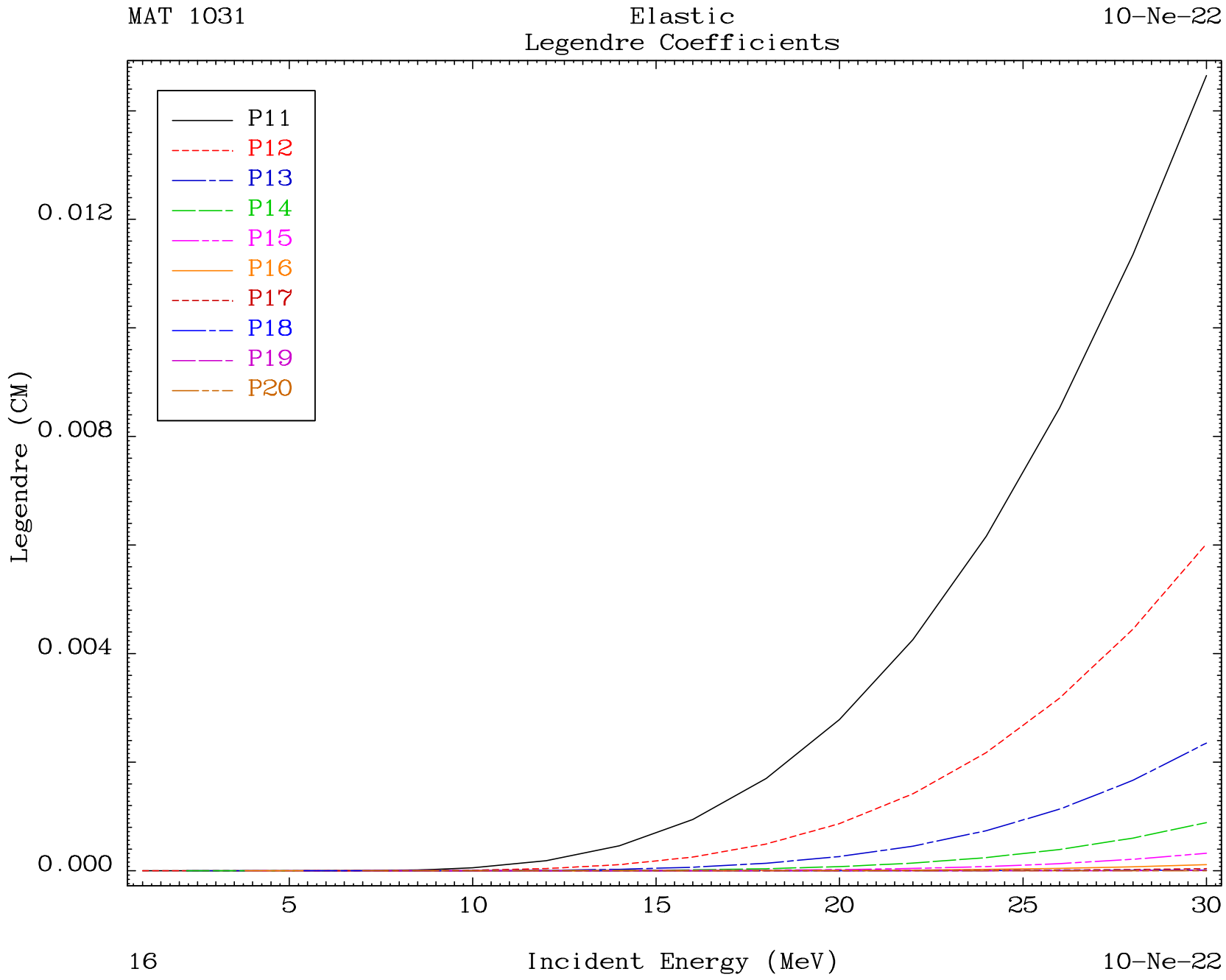


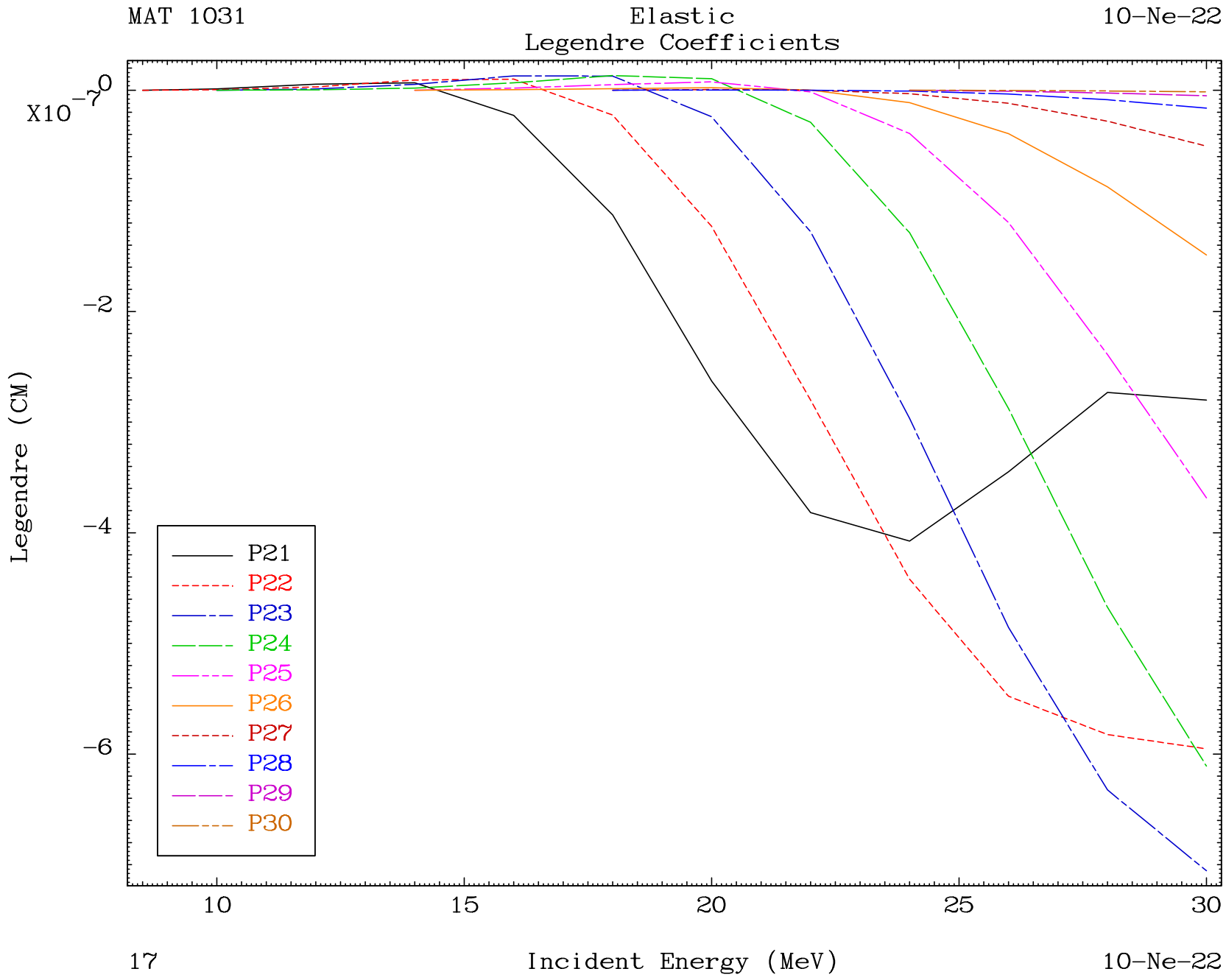

MAT 1031
(n,t) Levels
293 Kelvin Cross Sections
10-Ne-22
Cross Section (barns)
10-3
5
10-4
5
10-5
5
10-6
5
10-7
5
10-8
(n,t)
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)
12
10-Ne-22

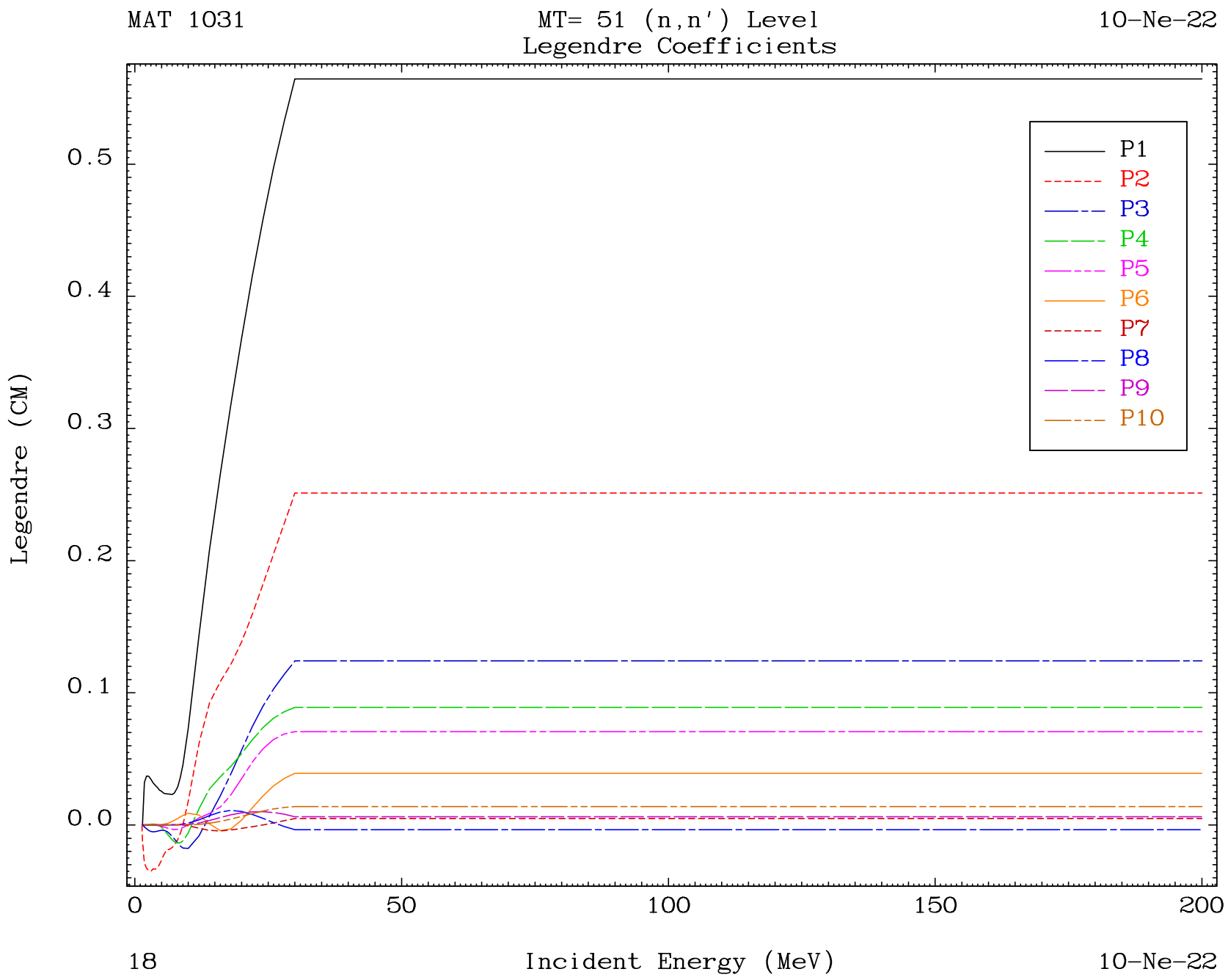

MAT 1031
(n,He3) Levels
293 Kelvin Cross Sections
10-Ne-22
(n,He-3)
Cross Section (barns)
10^-4
5
5
10^-6
5
5
10^-8
5
5
10^-10
5
5
2
3
4
5
6
7
8
9
10^2
2
13
Incident Energy (MeV)
10-Ne-22

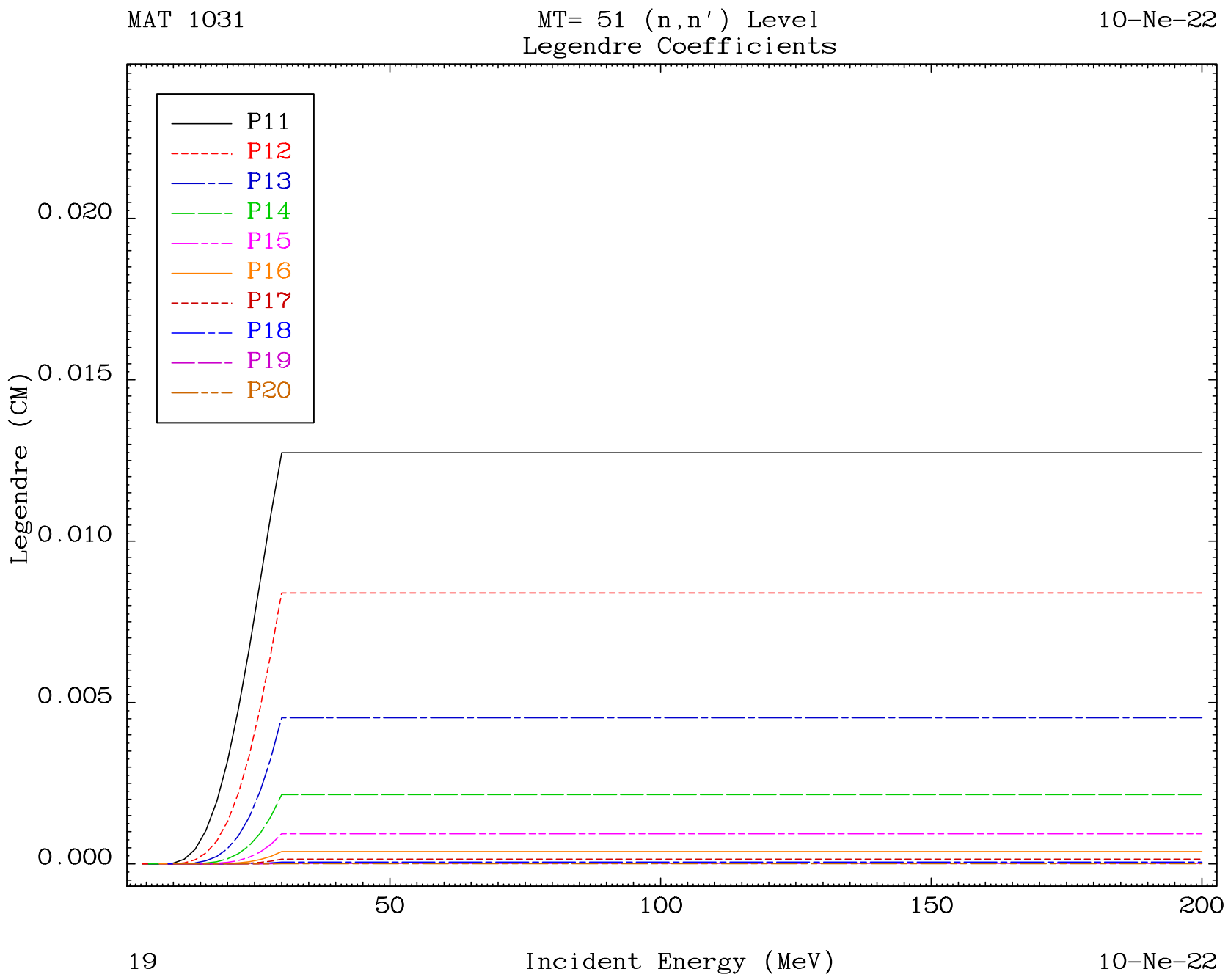

MAT 1031
(n,α) Levels
293 Kelvin Cross Sections
10-Ne-22
(n,α)
(n,2α)
Cross Section (barns)
Incident Energy (MeV)
14
10-Ne-22

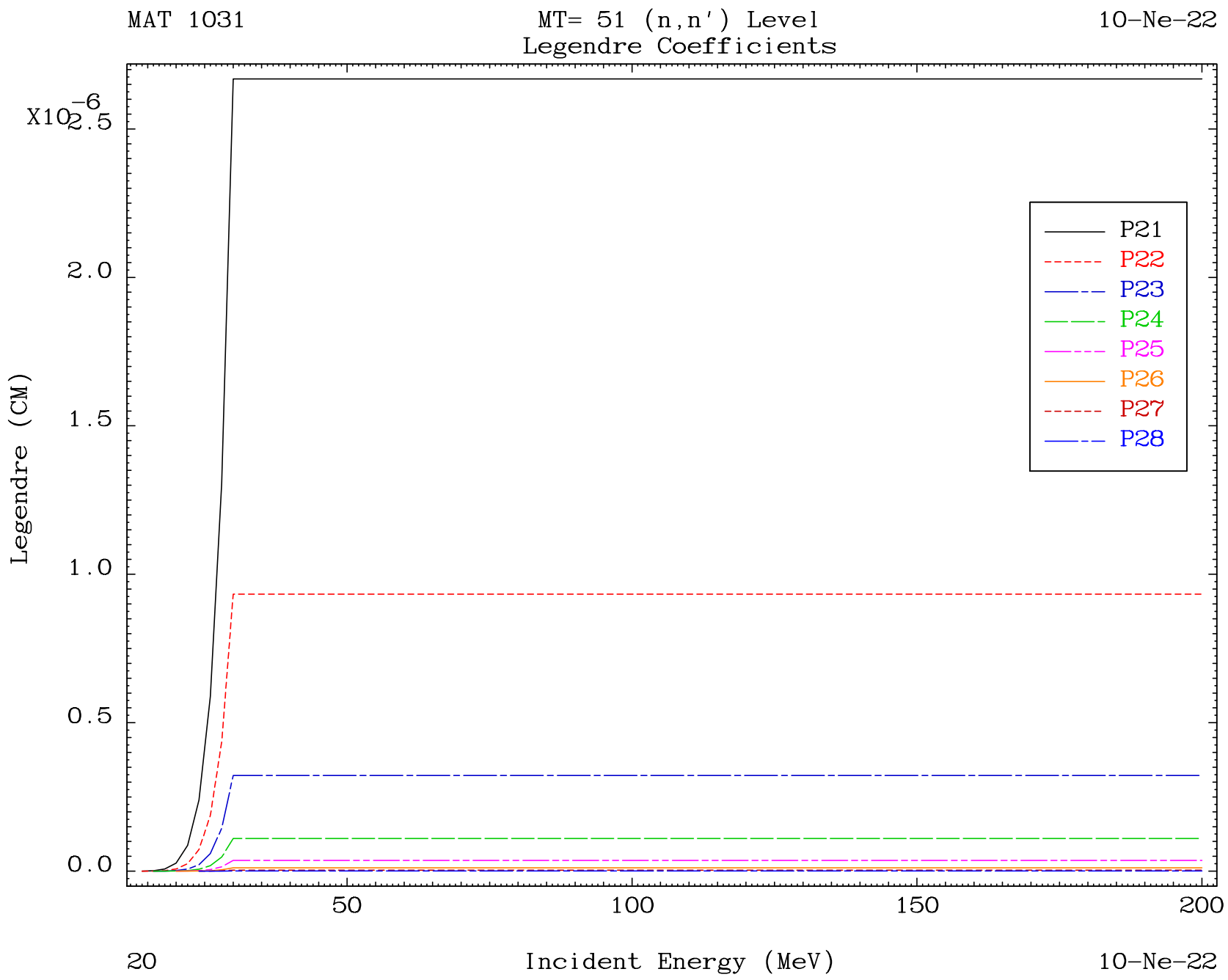

MAT 1031
Elastic
Legendre Coefficients
10-Ne-22
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
Legendre (CM)
0.0
0.2
0.4
0.6
0.8
0
10
20
30
15
Incident Energy (MeV)
10-Ne-22

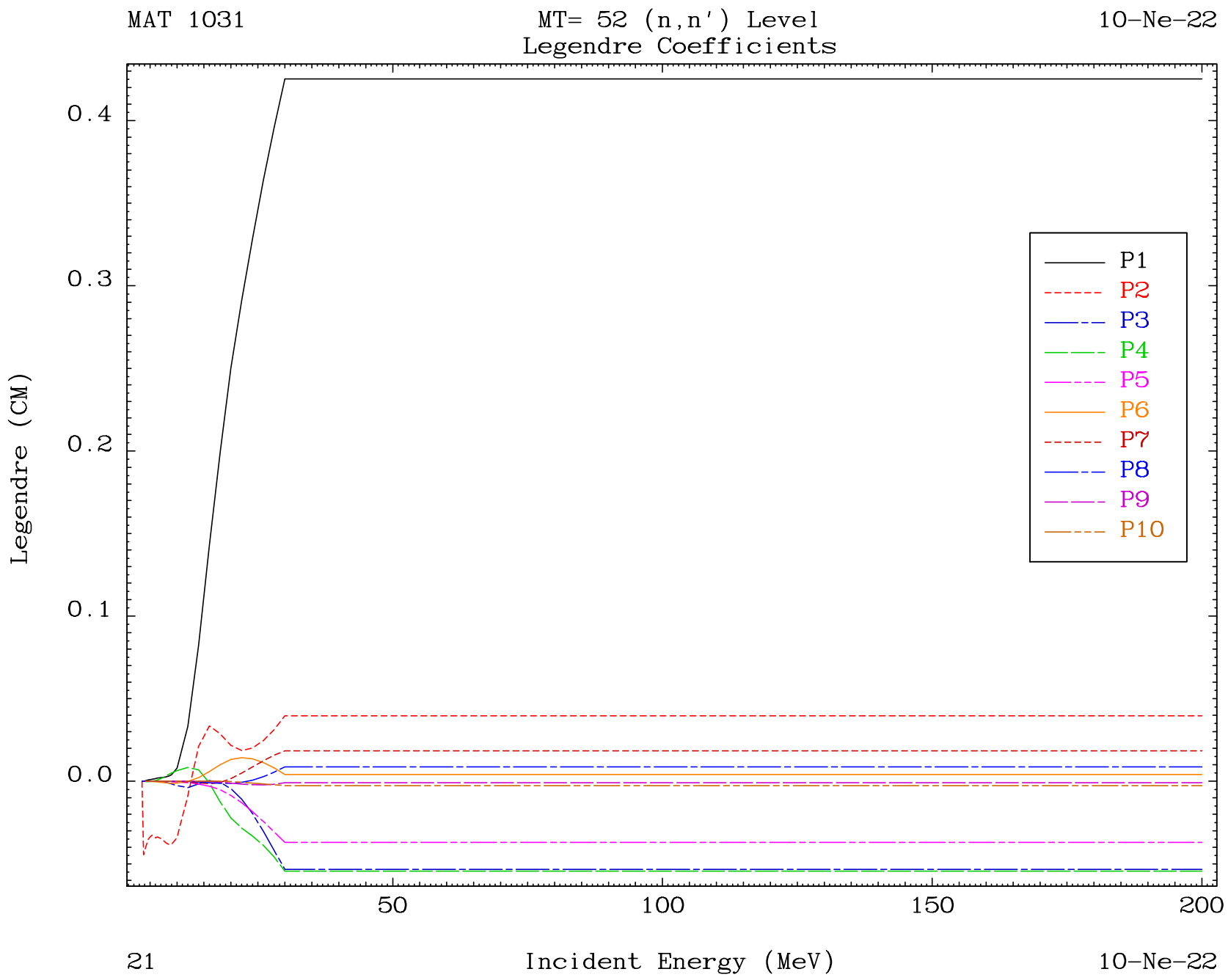

MAT 1031
Elastic
Legendre Coefficients
10-Ne-22
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.012
0.008
0.004
0.000
Legendre (CM)
5
10
15
20
25
30
16
Incident Energy (MeV)
10-Ne-22

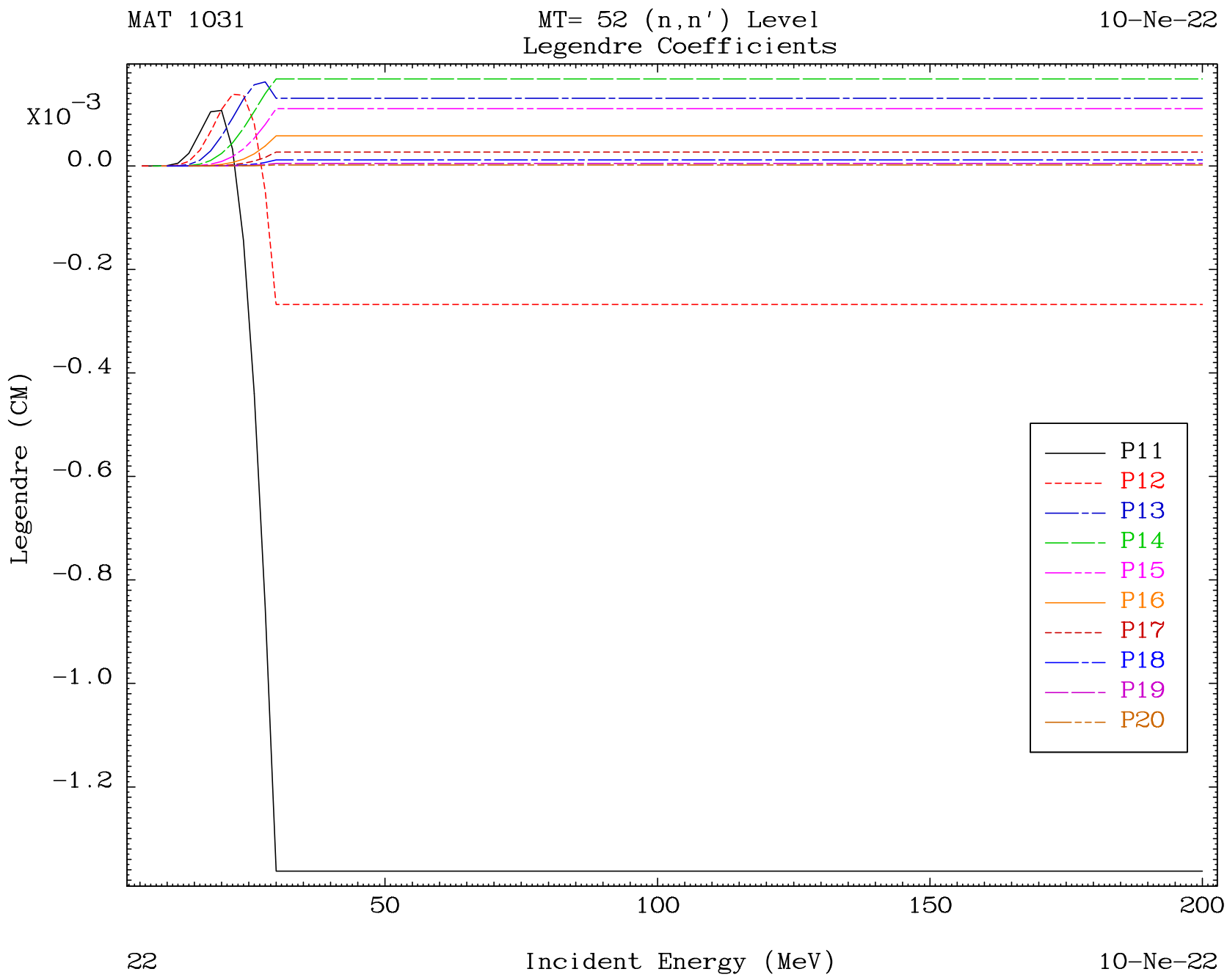

MAT 1031
Elastic
Legendre Coefficients
10-Ne-22
X10^-2
0
-2
-4
-6
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
10
15
20
25
30
17
Incident Energy (MeV)
10-Ne-22

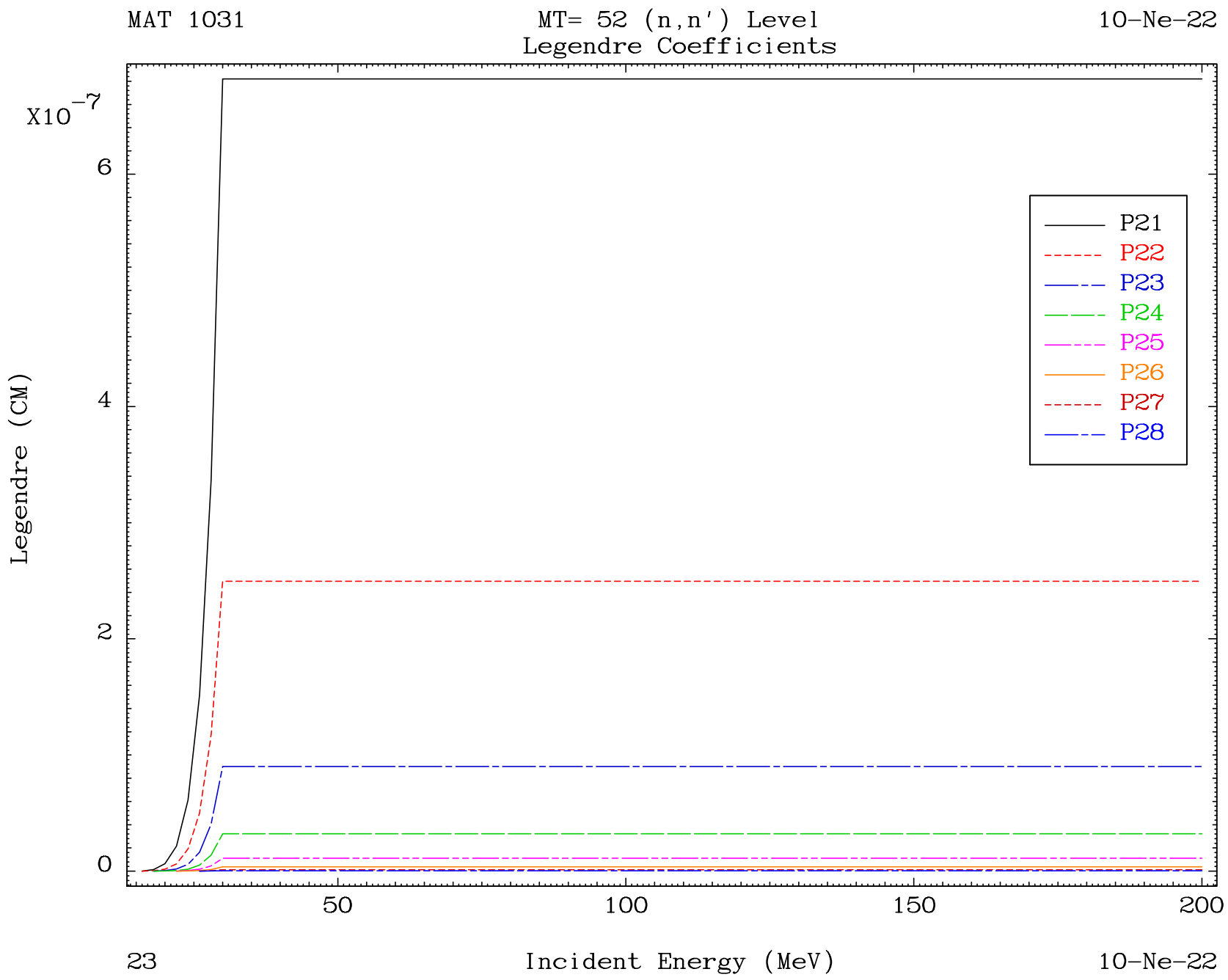

MAT 1031
MT= 51 (n,n') Level
Legendre Coefficients
10-Ne-22
Legendre (CM)
0.5
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
18
Incident Energy (MeV)
10-Ne-22

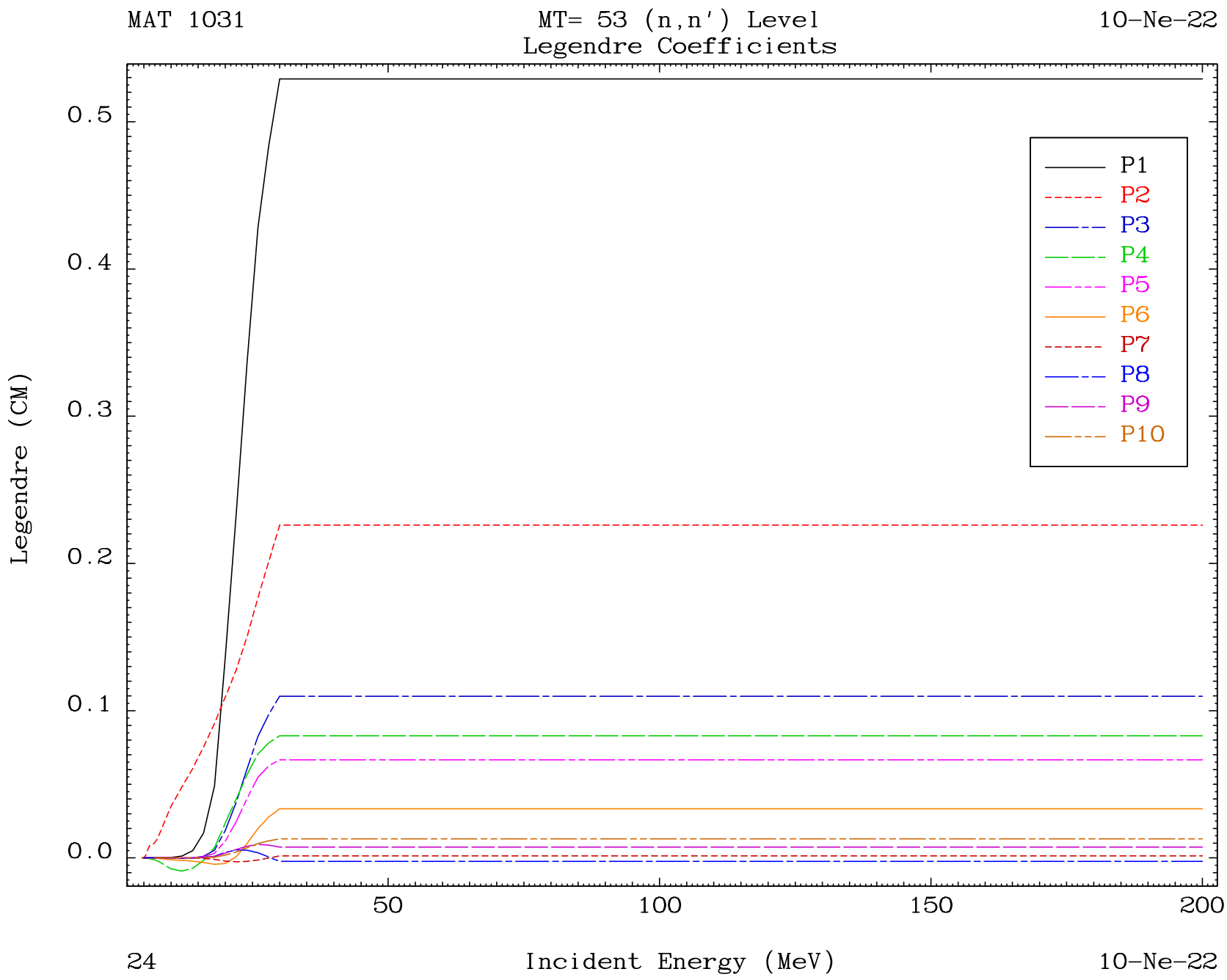

MAT 1031
MT= 51 (n,n') Level
Legendre Coefficients
10-Ne-22
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.020
0.015
0.010
0.005
0.000
Legendre (CM)
50
100
150
200
19
Incident Energy (MeV)
10-Ne-22

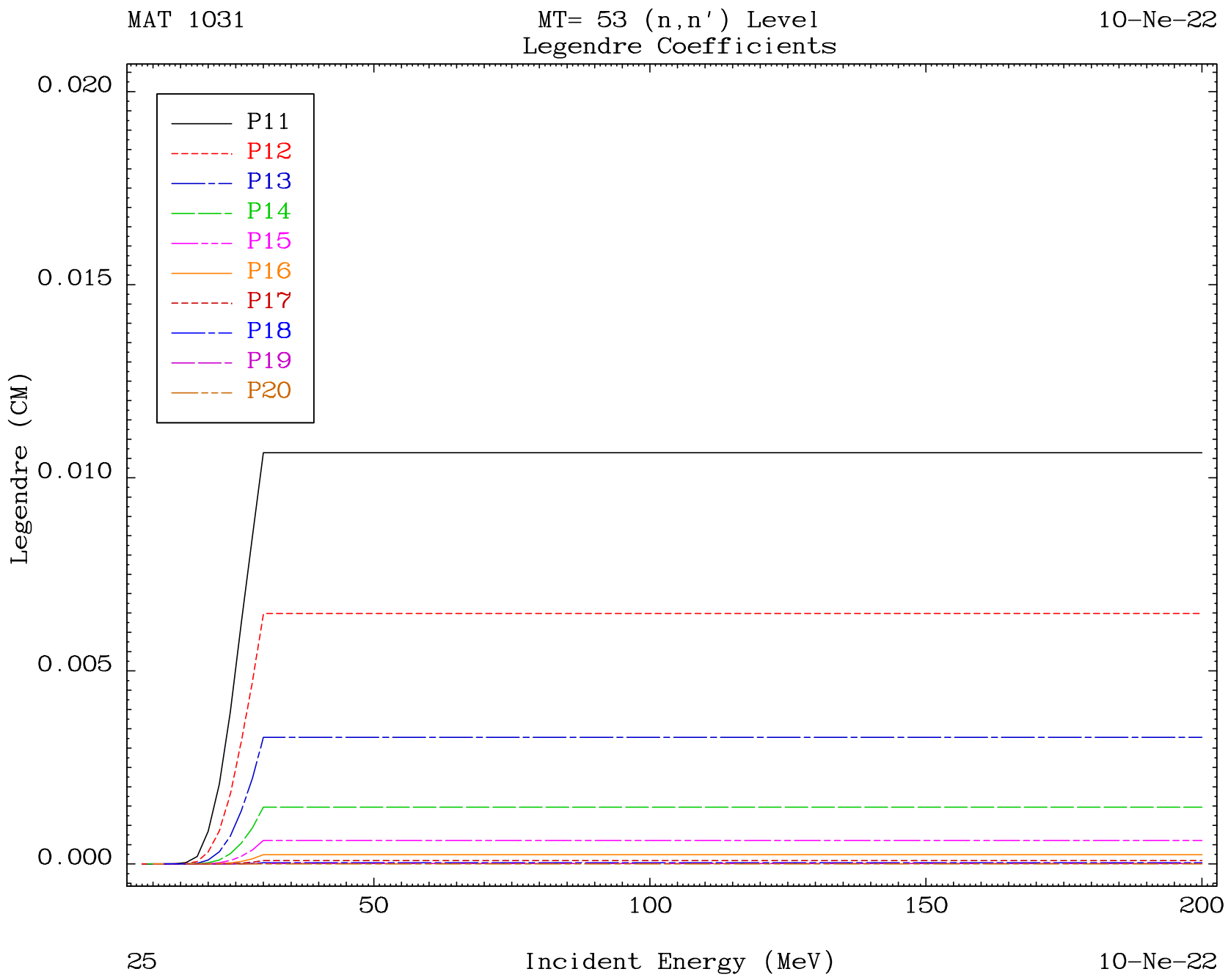

MAT 1031
MT= 51 (n,n') Level
Legendre Coefficients
10-Ne-22
X10^-6
2.5
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
20
50
100
150
200
Incident Energy (MeV)
10-Ne-22

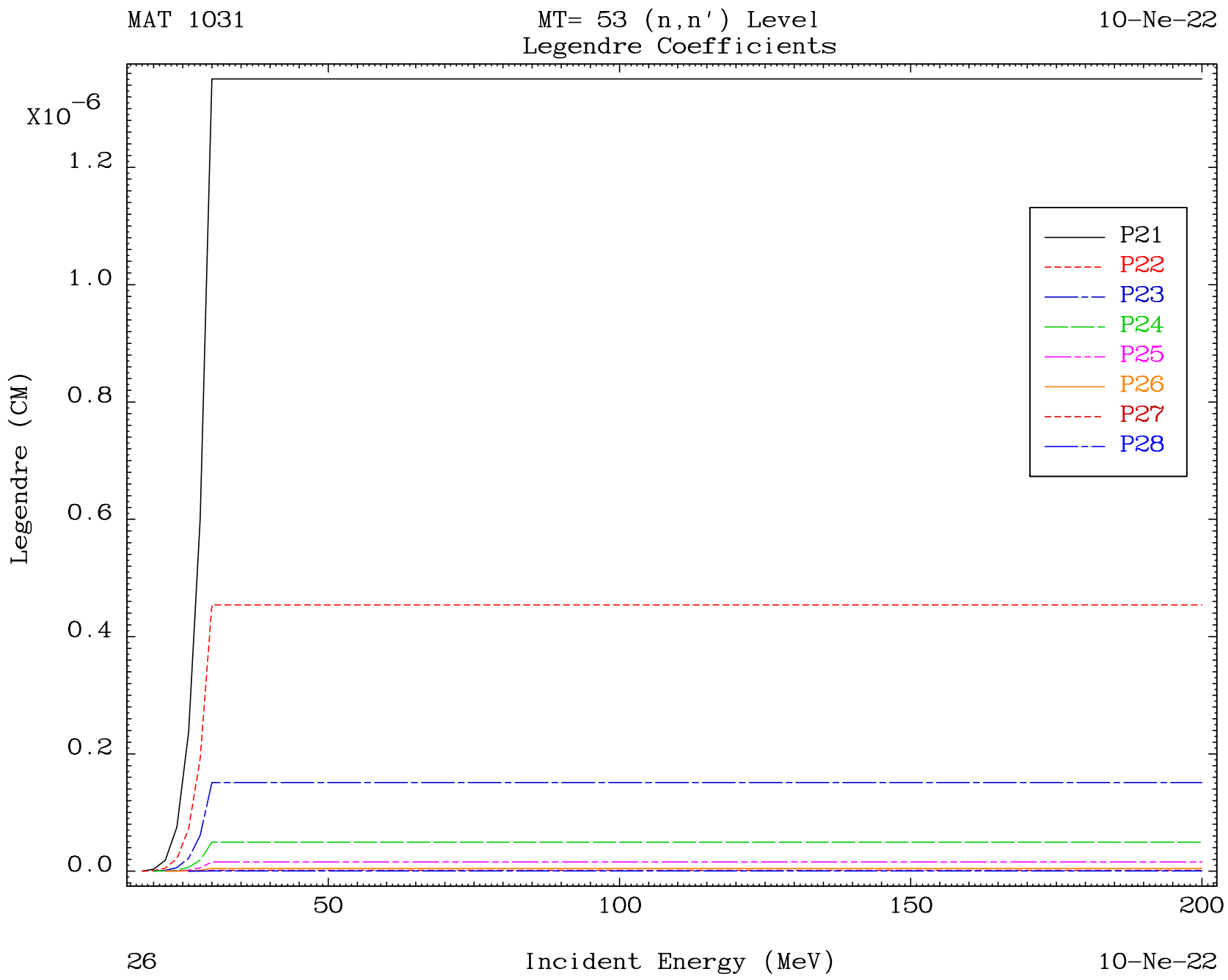

MAT 1031
MT= 52 (n,n') Level
Legendre Coefficients
10-Ne-22
0.4
0.3
0.2
0.1
0.0
Legendre (CM)
50
100
150
200
Incident Energy (MeV)
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
21
10-Ne-22

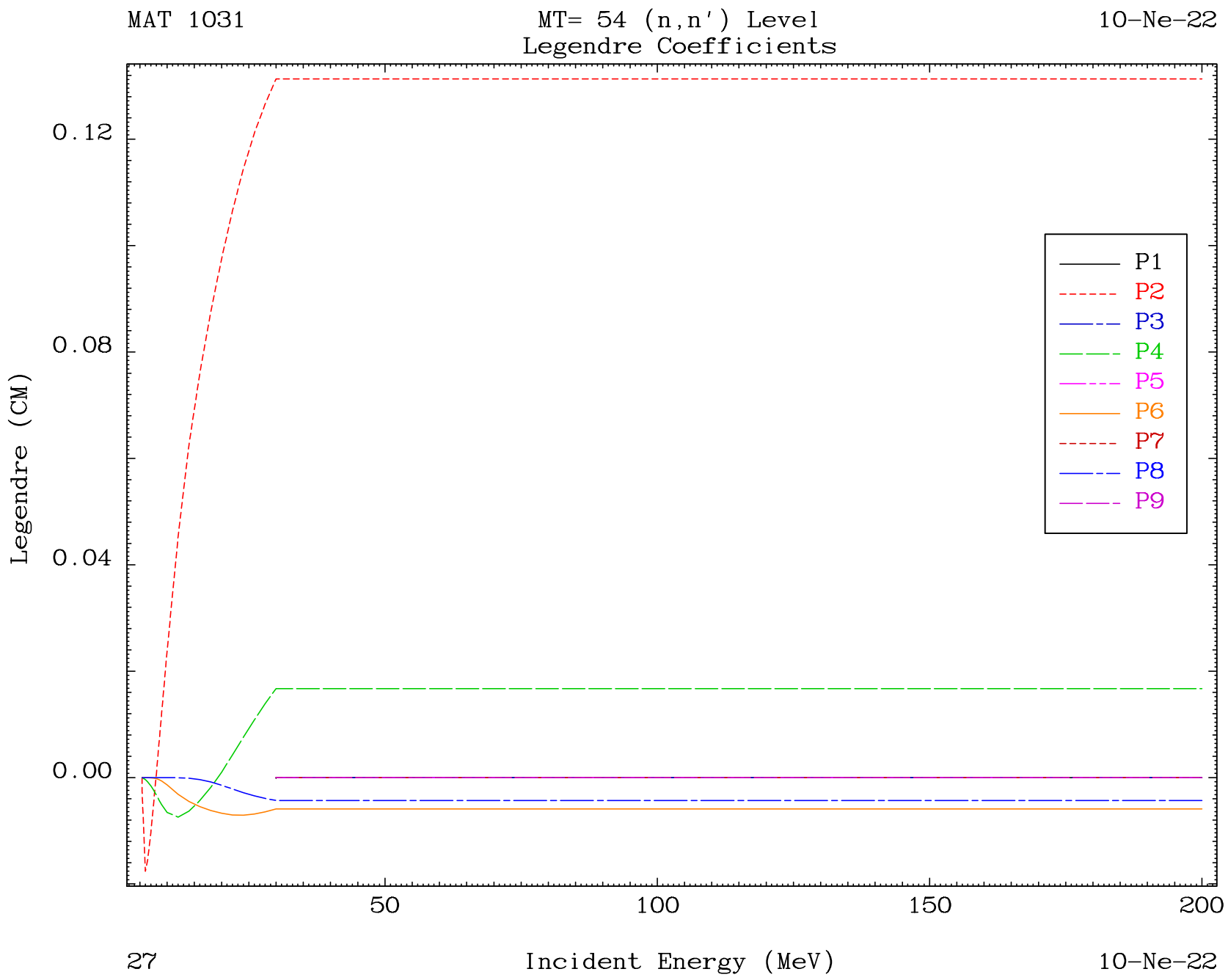

MAT 1031
MT= 52 (n,n') Level
Legendre Coefficients
10-Ne-22
X10^-3
0.0
-0.2
-0.4
-0.6
-0.8
-1.0
-1.2
Legendre (CM)
50
100
150
200
22
Incident Energy (MeV)
10-Ne-22
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20

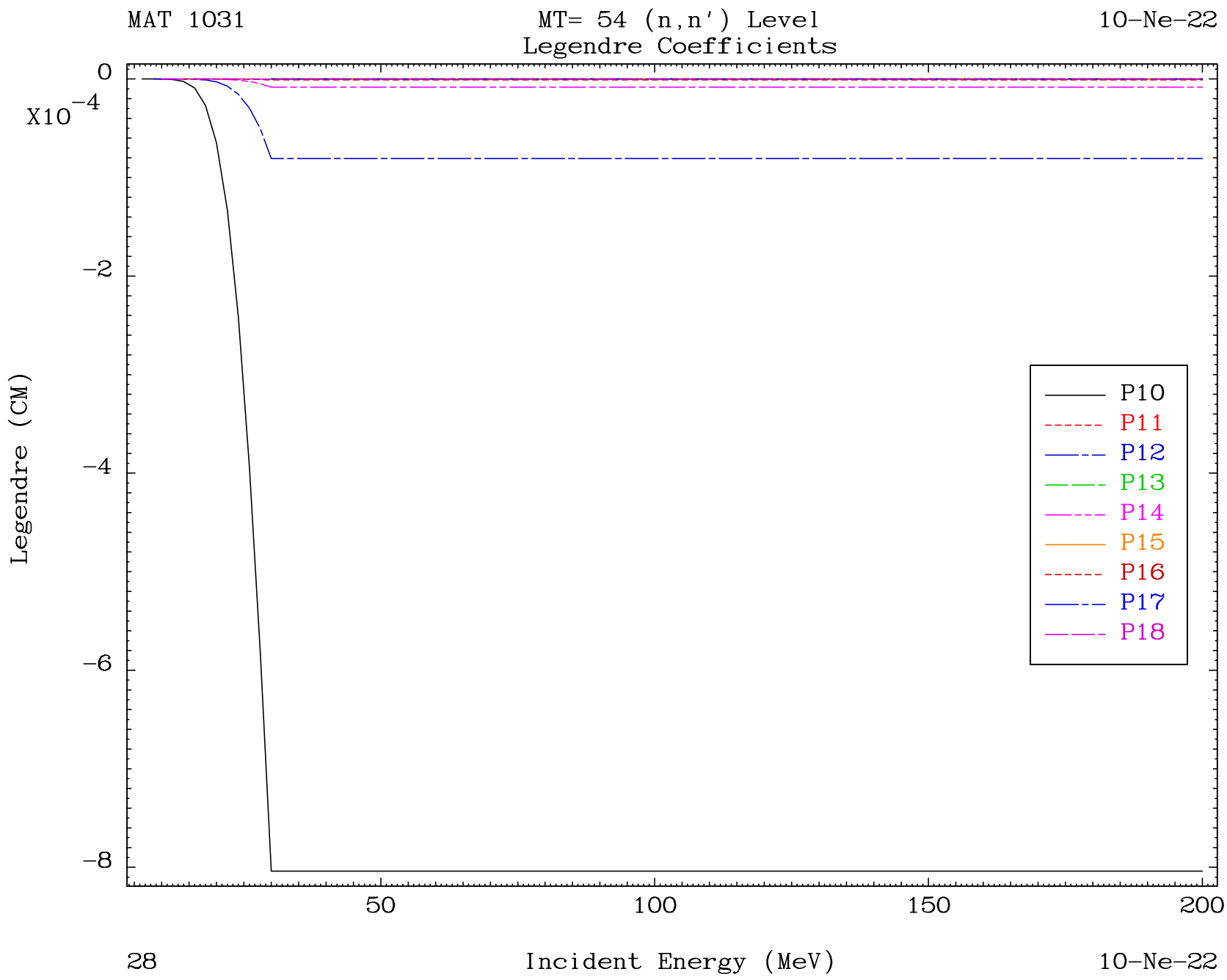

MAT 1031
MT= 52 (n,n') Level
Legendre Coefficients
10-Ne-22
X10^-7
6
4
2
0
Legendre (CM)
50
100
150
200
Incident Energy (MeV)
P21
P22
P23
P24
P25
P26
P27
P28
23
10-Ne-22

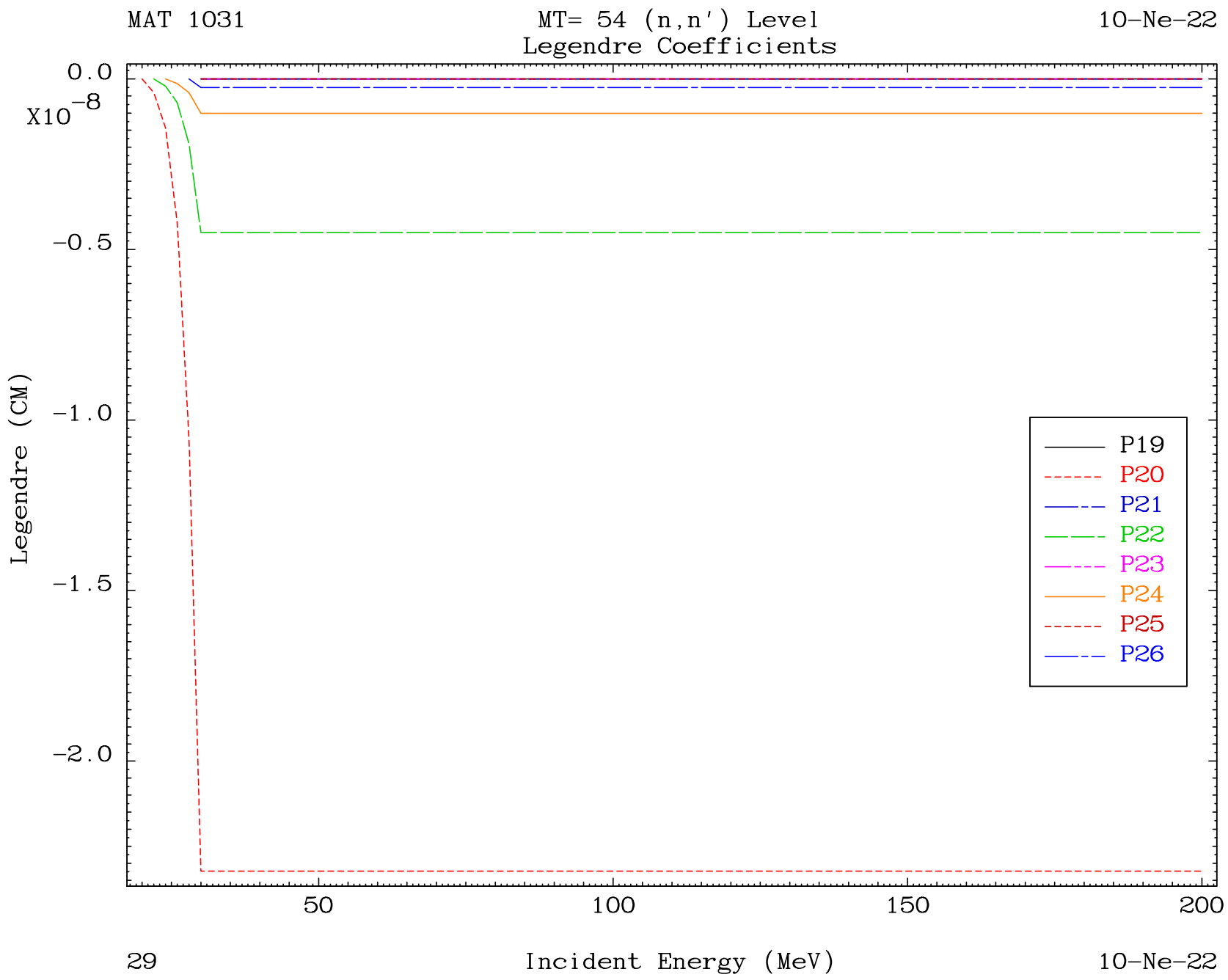

MAT 1031
MT= 53 (n,n') Level
Legendre Coefficients
10-Ne-22
Legendre (CM)
0.5
0.4
0.3
0.2
0.1
0.0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
24
Incident Energy (MeV)
10-Ne-22

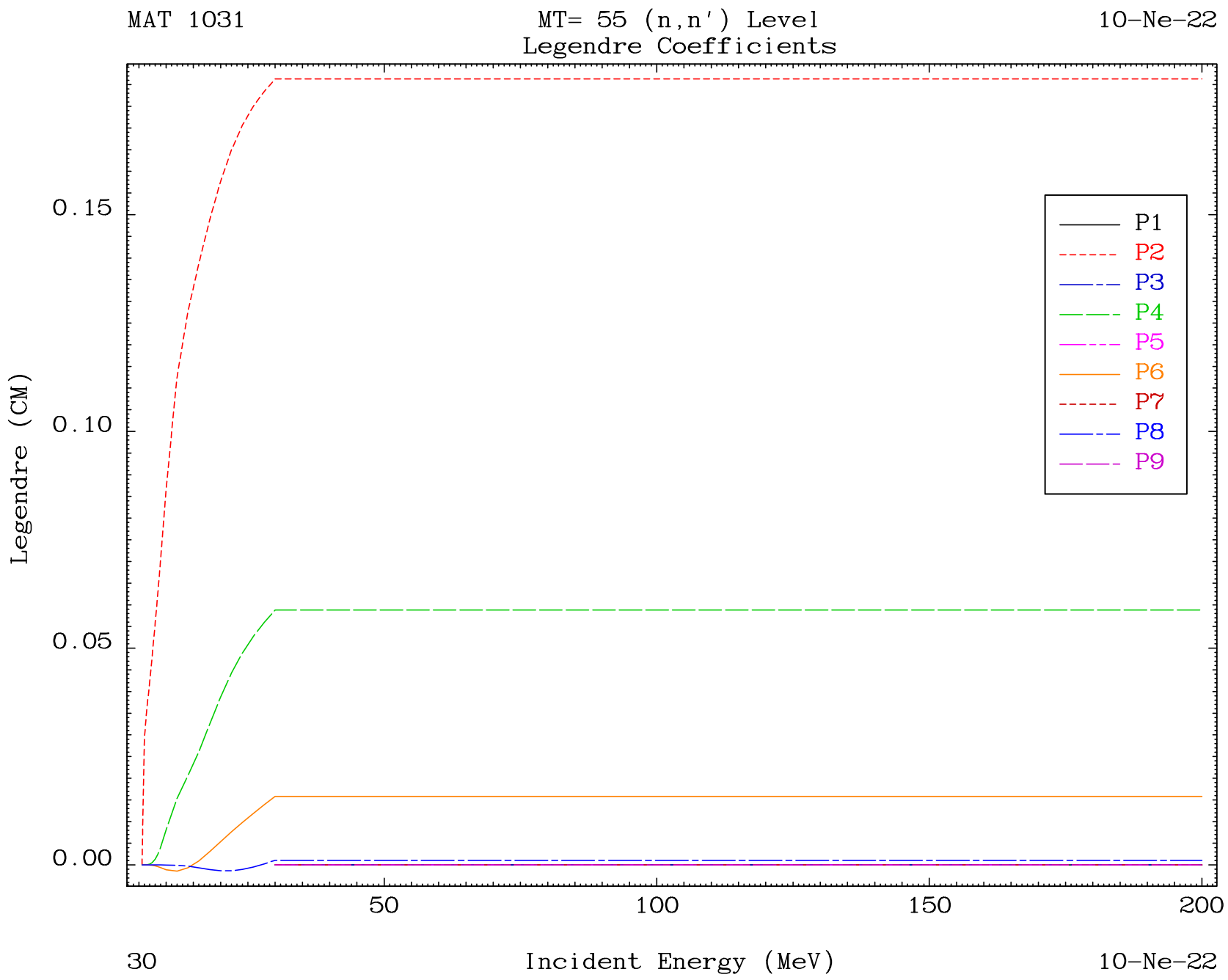

MAT 1031
MT= 53 (n,n') Level
Legendre Coefficients
10-Ne-22
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
Legendre (CM)
0.020
0.015
0.010
0.005
0.000
50
100
150
200
25
Incident Energy (MeV)
10-Ne-22

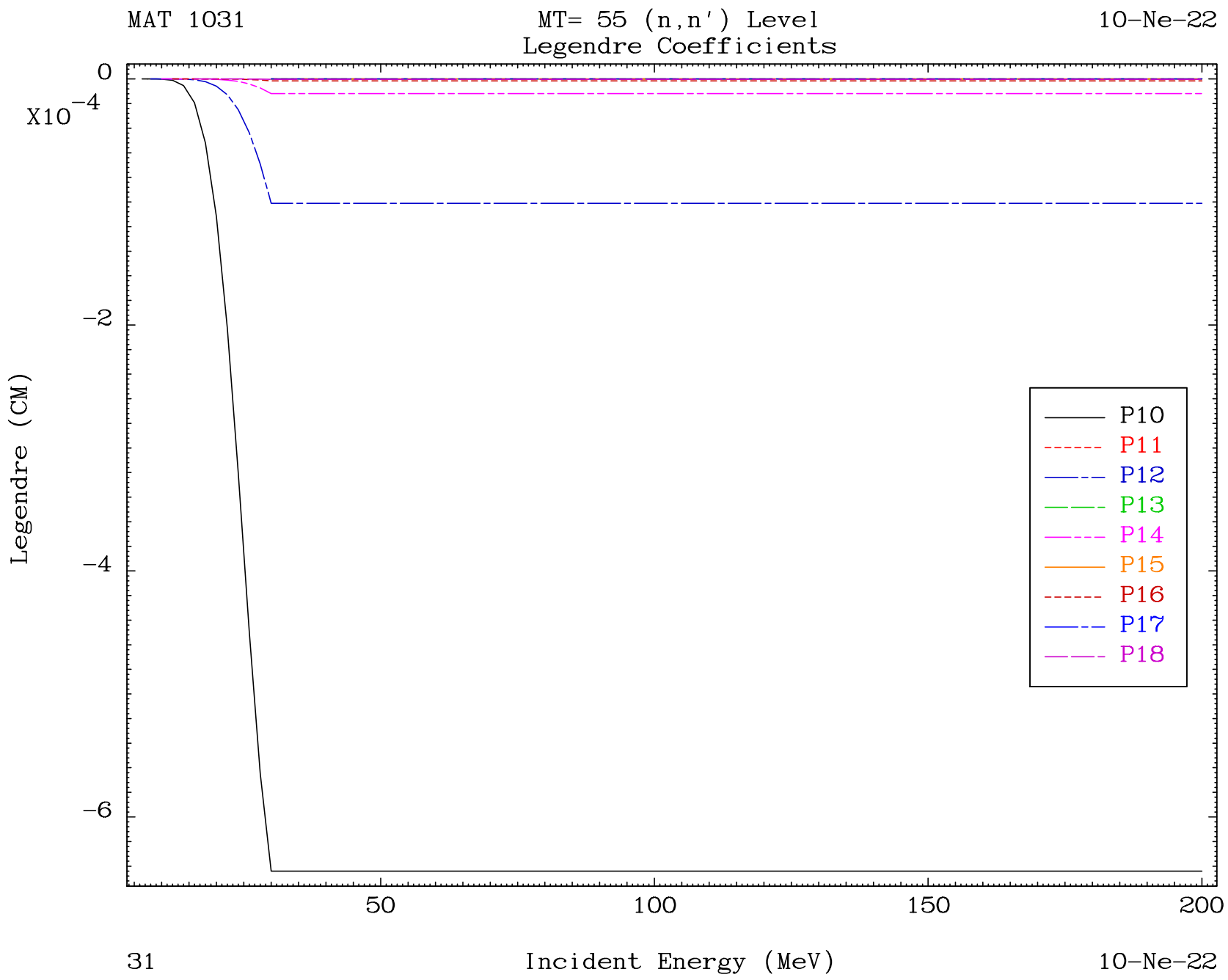

MAT 1031
MT= 53 (n,n') Level
Legendre Coefficients
10-Ne-22
X10^-6
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
50
100
150
200
Incident Energy (MeV)
P21
P22
P23
P24
P25
P26
P27
P28
26
10-Ne-22

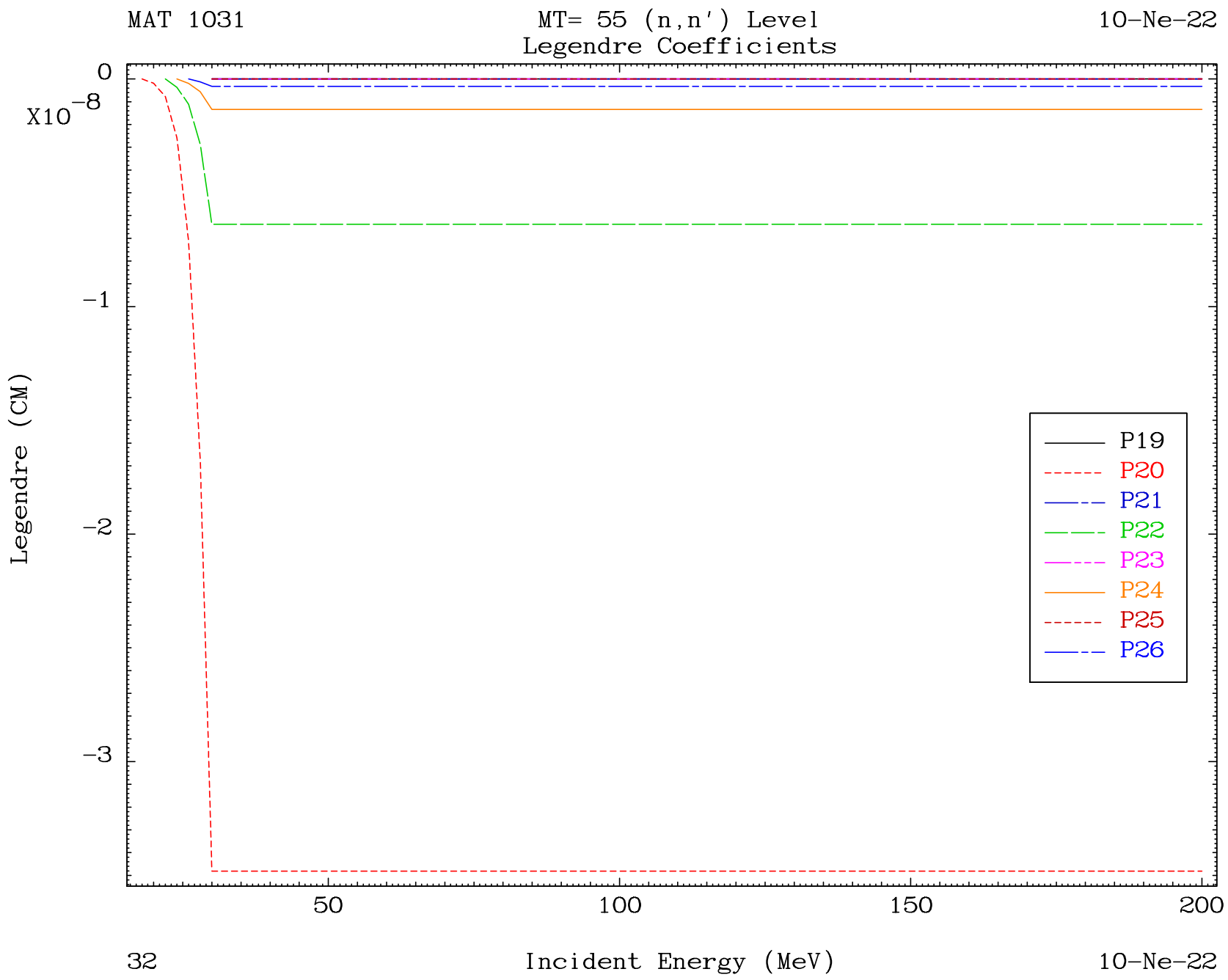

MAT 1031
MT= 54 (n,n') Level
Legendre Coefficients
10-Ne-22
0.12
0.08
0.04
0.00
Legendre (CM)
50
100
150
200
Incident Energy (MeV)
P1
P2
P3
P4
P5
P6
P7
P8
P9
27
10-Ne-22

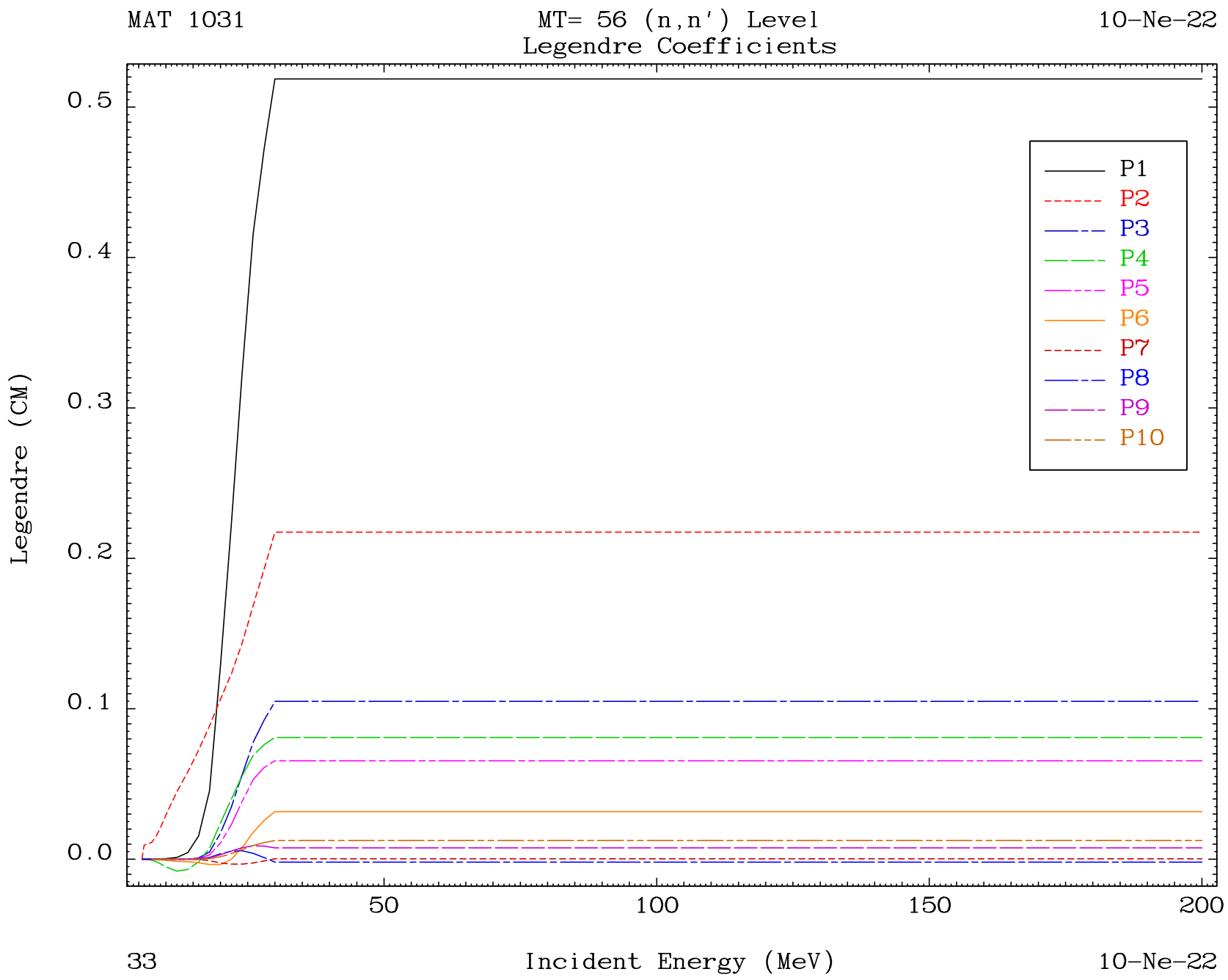

MAT 1031
MT= 54 (n,n') Level
Legendre Coefficients
10-Ne-22
0
X10^-4
-2
-4
-6
-8
Legendre (CM)
50
100
150
200
Incident Energy (MeV)
28
10-Ne-22
P10
P11
P12
P13
P14
P15
P16
P17
P18

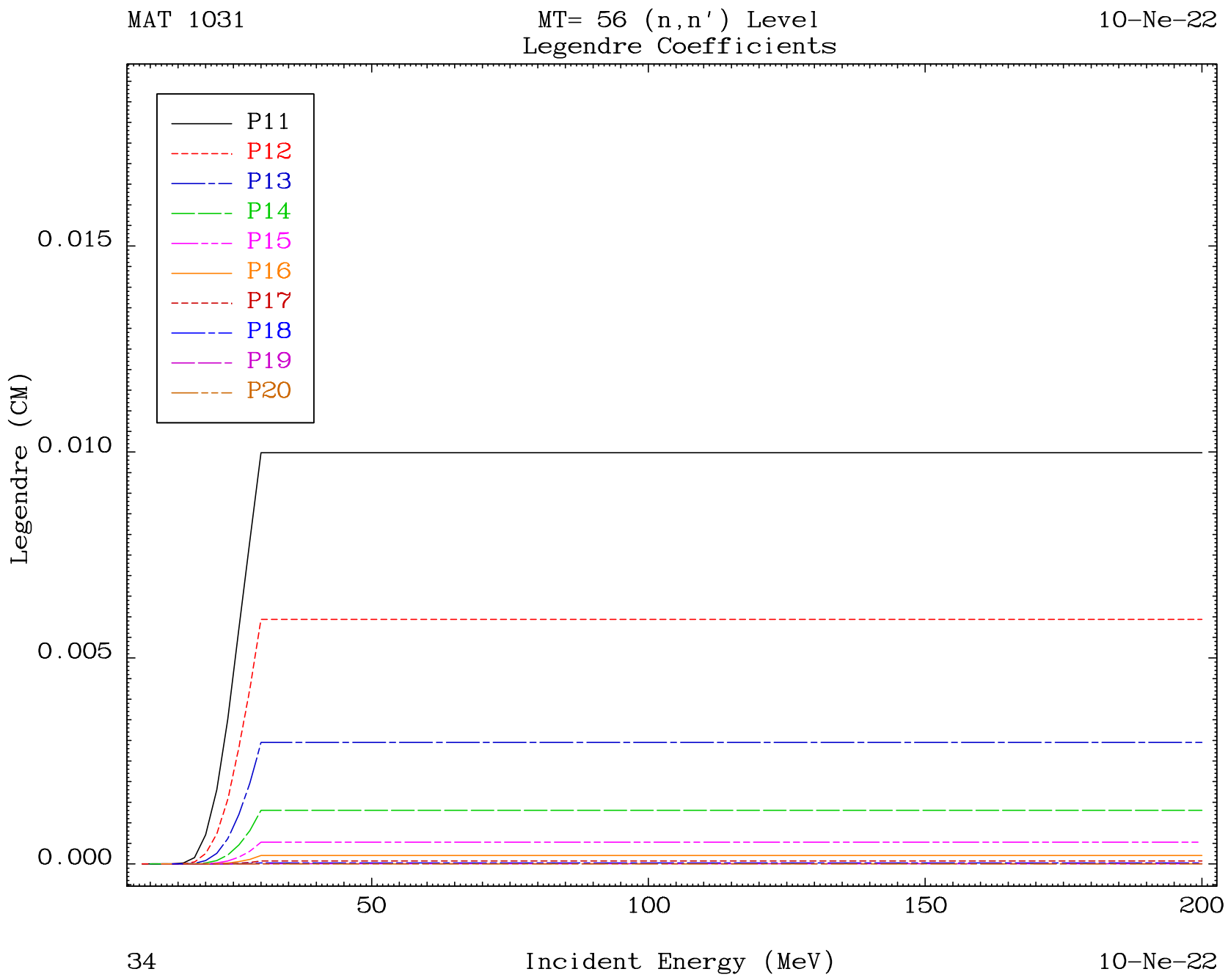

MAT 1031
MT= 54 (n,n') Level
Legendre Coefficients
10-Ne-22
0.0
X10^-8
-0.5
-1.0
-1.5
-2.0
Legendre (CM)
50
100
150
200
Incident Energy (MeV)
P19
P20
P21
P22
P23
P24
P25
P26
29
10-Ne-22

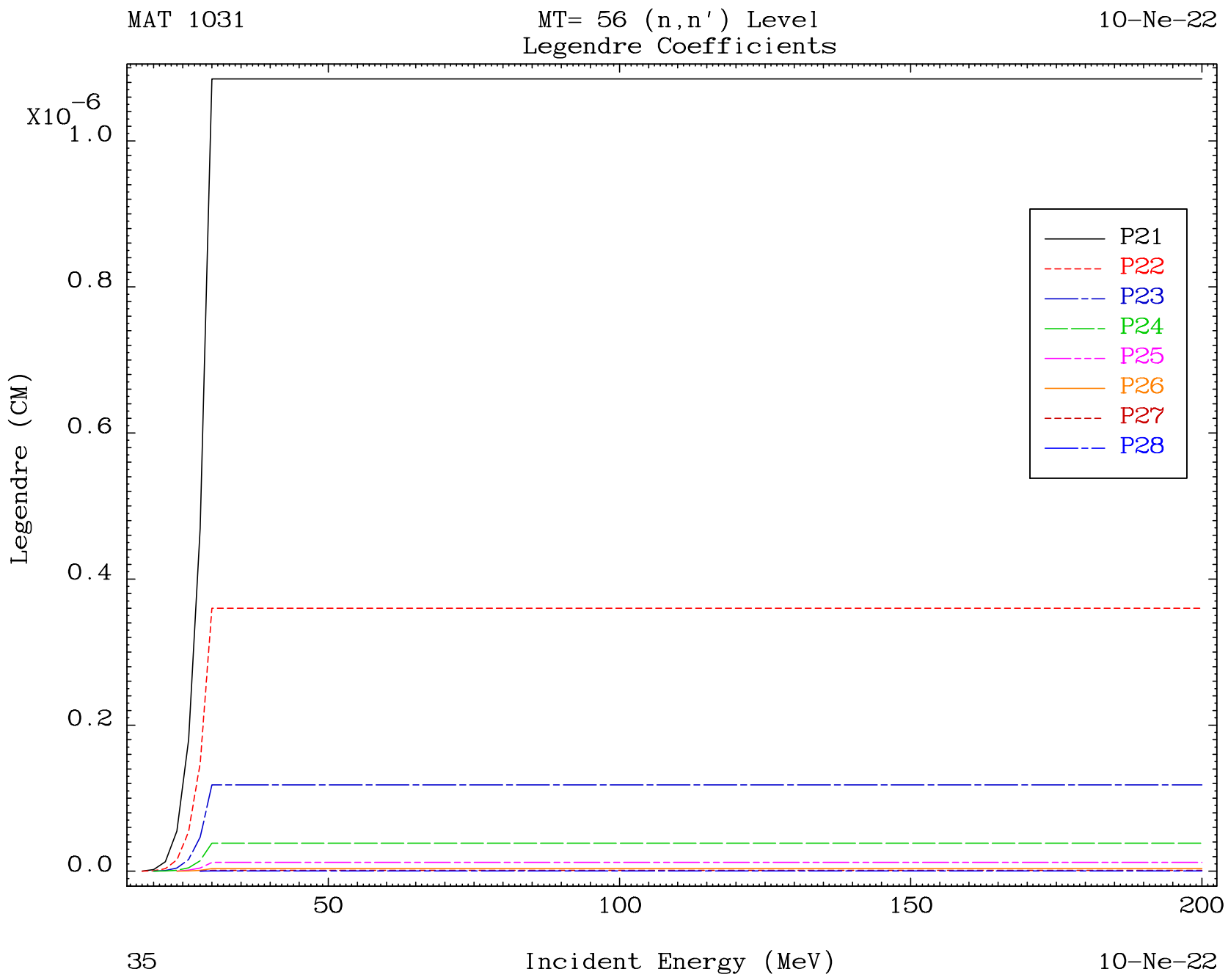

MAT 1031
MT= 55 (n,n') Level
Legendre Coefficients
10-Ne-22
0.15
0.10
0.05
0.00
Legendre (CM)
50
100
150
200
30
Incident Energy (MeV)
10-Ne-22
P1
P2
P3
P4
P5
P6
P7
P8
P9

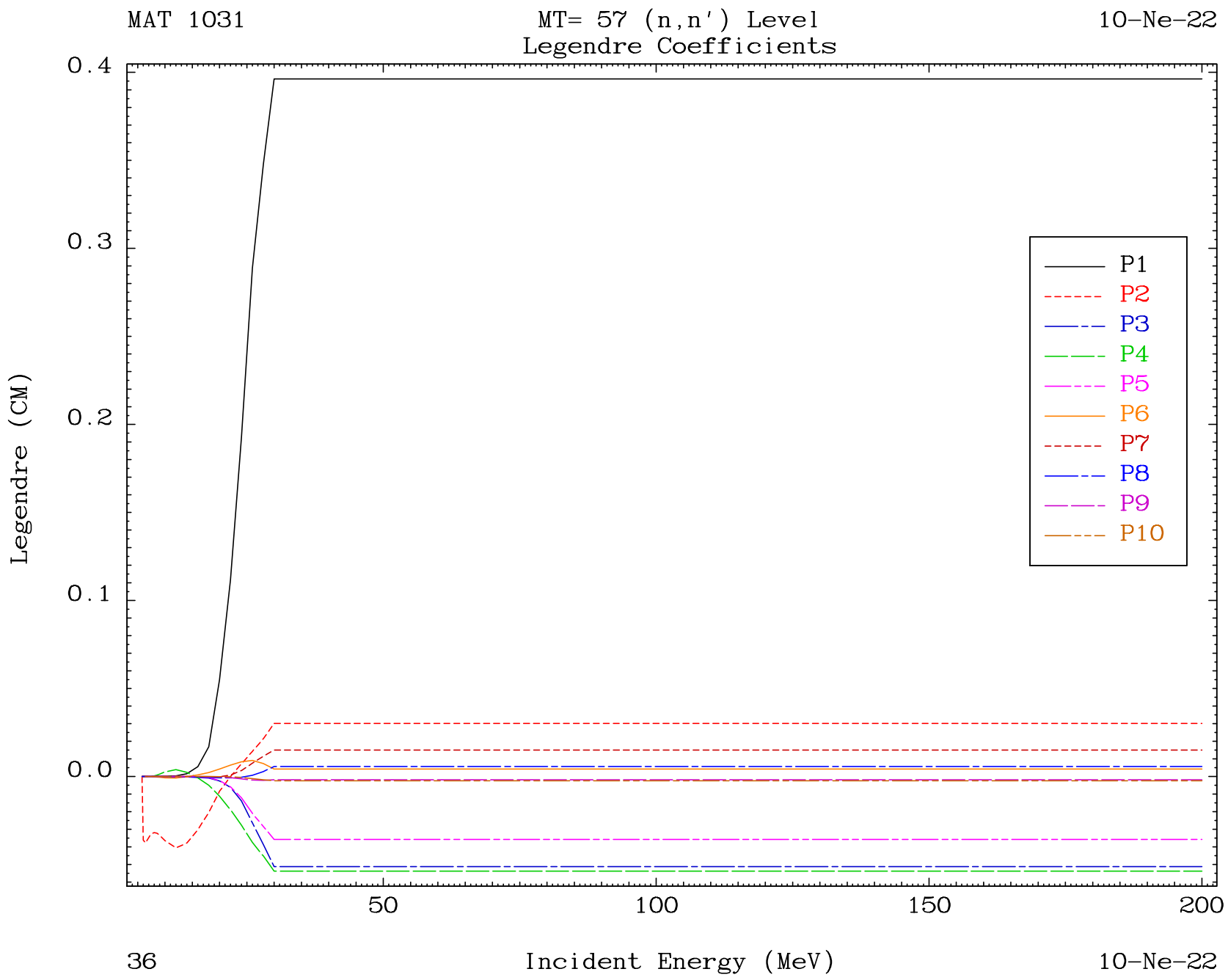

MAT 1031
MT= 55 (n,n') Level
Legendre Coefficients
10-Ne-22
0
X10^-4
-2
-4
-6
Legendre (CM)
50
100
150
200
Incident Energy (MeV)
31
10-Ne-22
P10
P11
P12
P13
P14
P15
P16
P17
P18

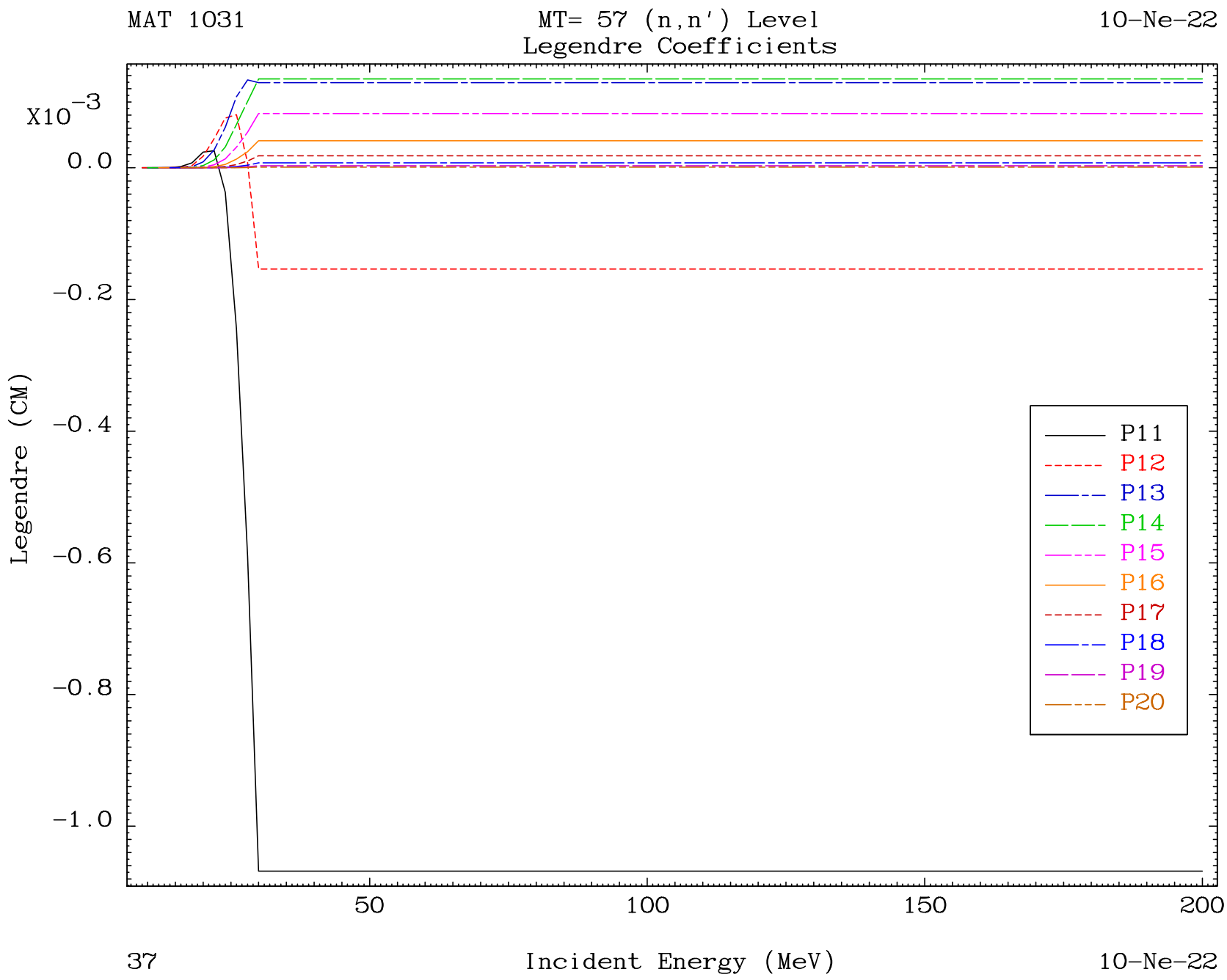

MAT 1031
MT= 55 (n,n') Level
Legendre Coefficients
10-Ne-22
0
X10^-8
-1
-2
-3
Legendre (CM)
50
100
150
200
32
Incident Energy (MeV)
10-Ne-22
P19
P20
P21
P22
P23
P24
P25
P26

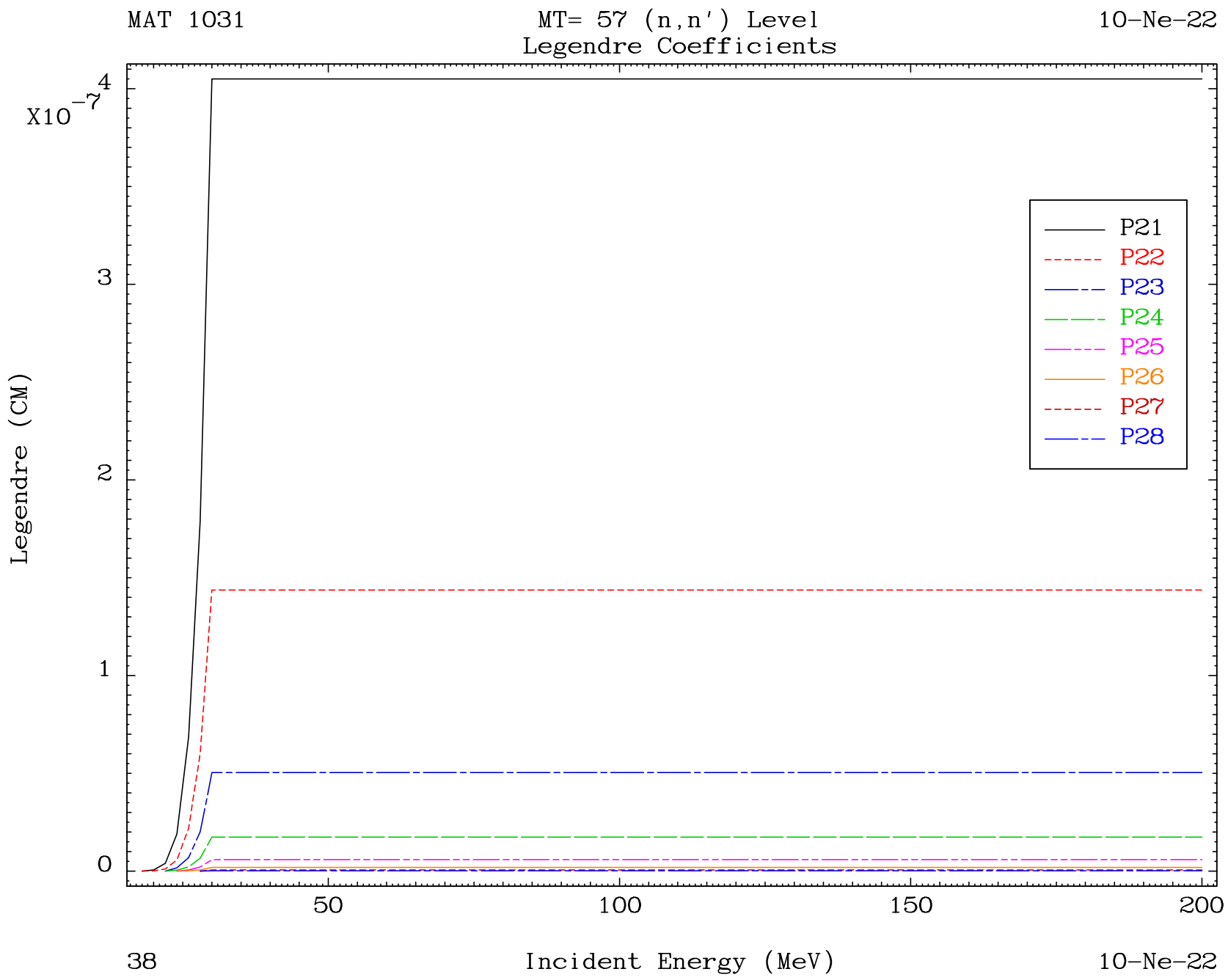

MAT 1031
MT= 56 (n,n') Level
Legendre Coefficients
10-Ne-22
0.5
0.4
0.3
0.2
0.1
0.0
Legendre (CM)
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
33
Incident Energy (MeV)
10-Ne-22

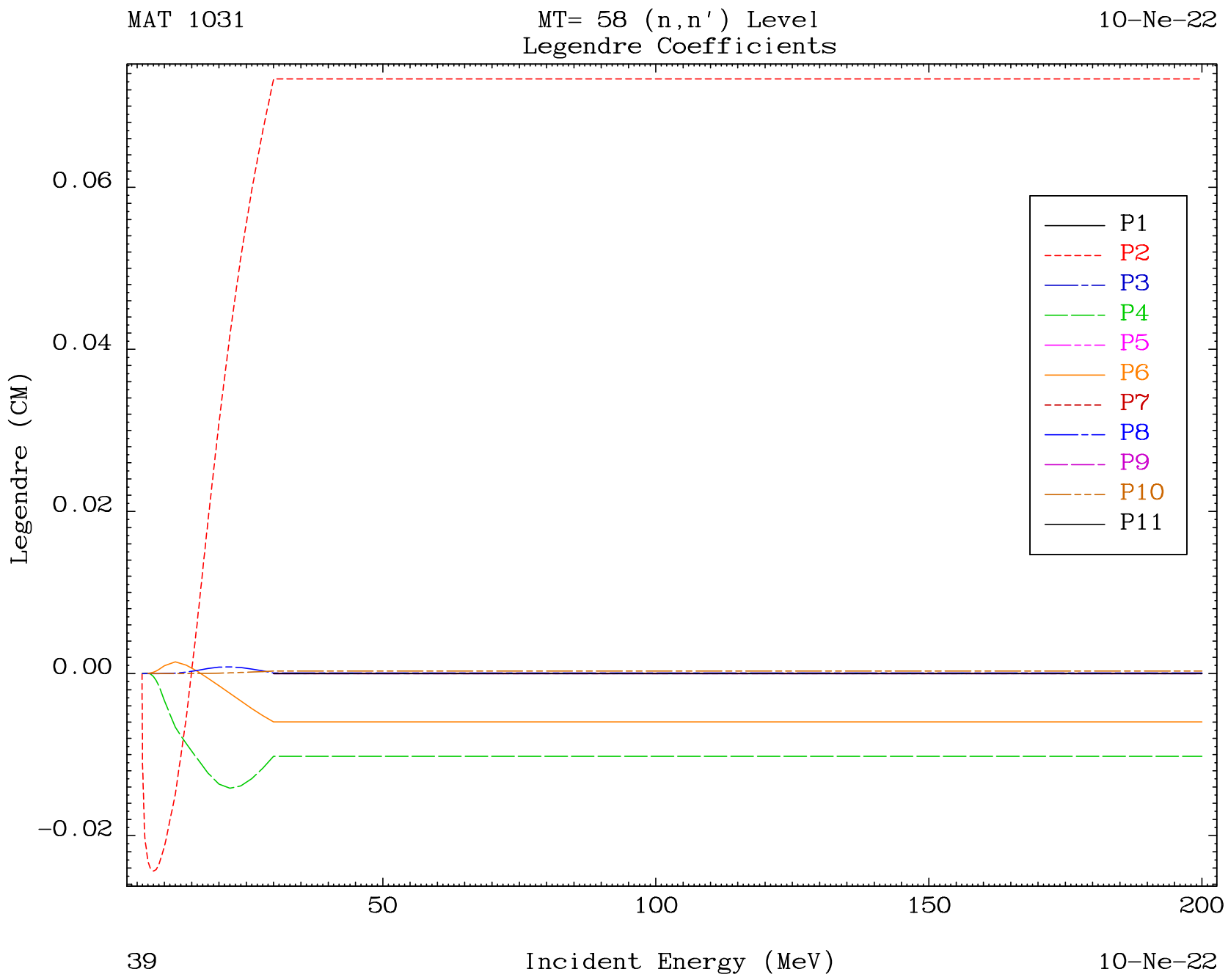

MAT 1031
MT= 56 (n,n') Level
Legendre Coefficients
10-Ne-22
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.015
0.010
0.005
0.000
Legendre (CM)
50
100
150
200
34
Incident Energy (MeV)
10-Ne-22

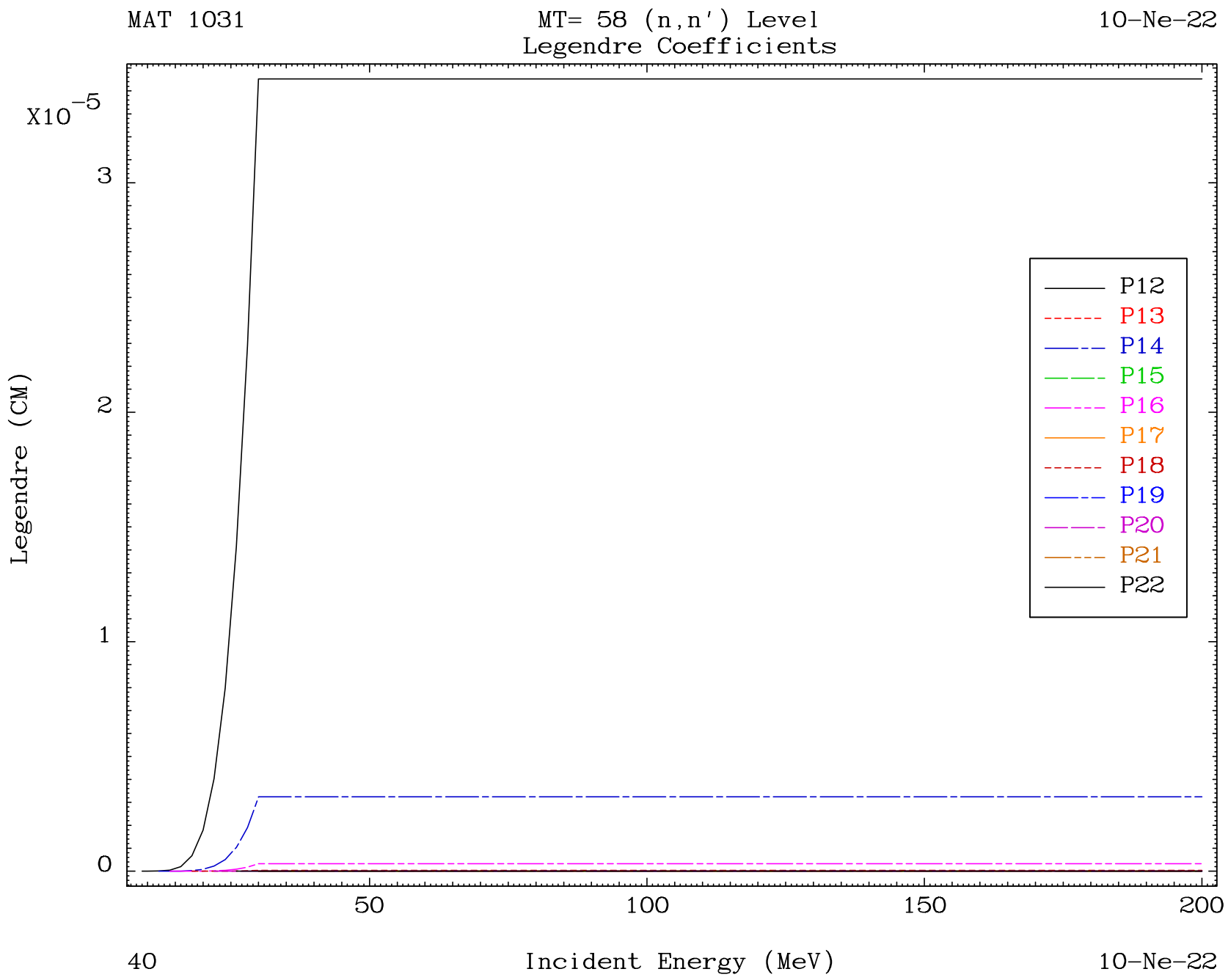

MAT 1031
MT= 56 (n,n') Level
Legendre Coefficients
10-Ne-22
X10^-6
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
50
100
150
200
Incident Energy (MeV)
35
10-Ne-22
P21
P22
P23
P24
P25
P26
P27
P28

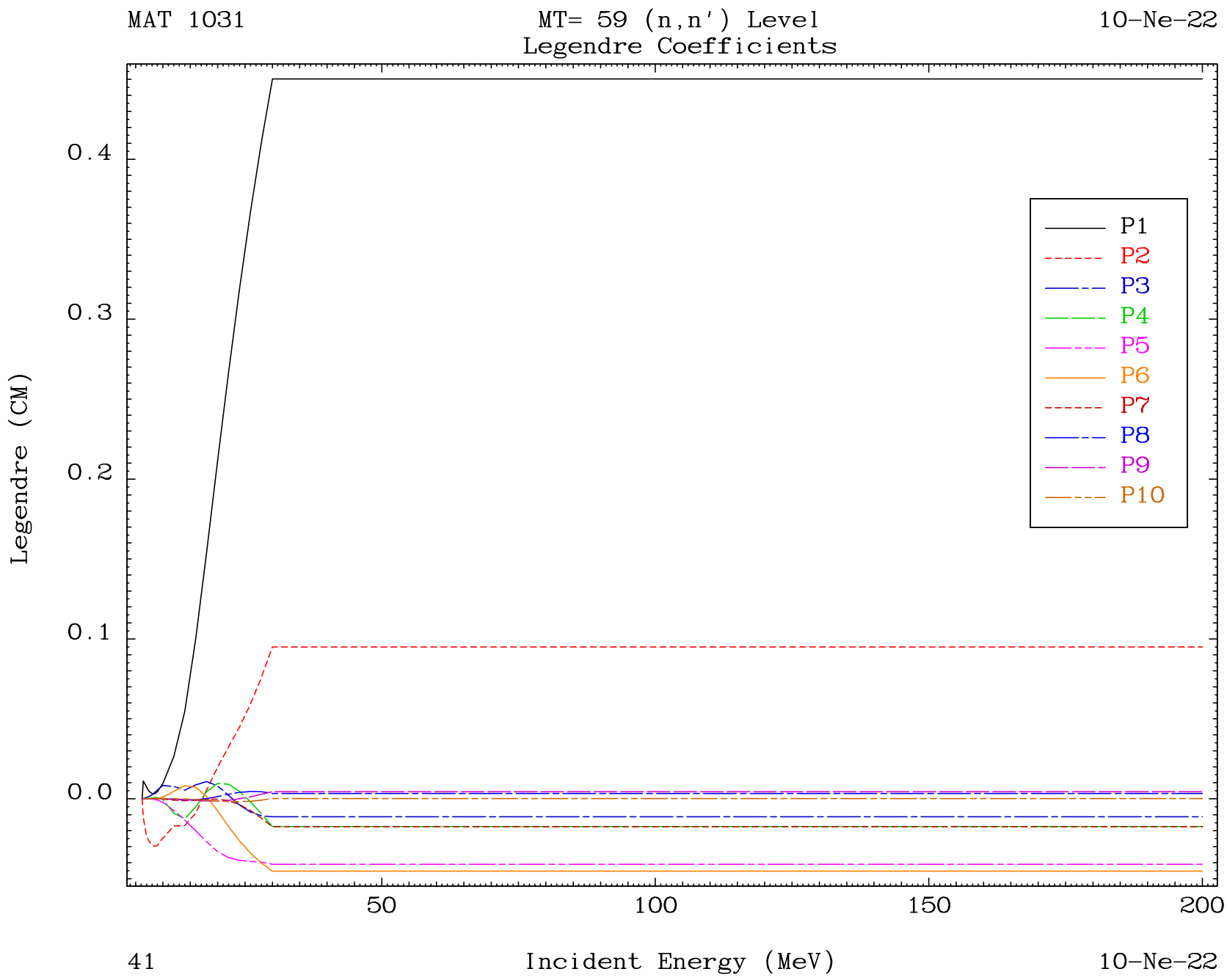

MAT 1031
MT= 57 (n,n') Level
Legendre Coefficients
10-Ne-22
0.4
0.3
0.2
0.1
0.0
Legendre (CM)
50
100
150
200
Incident Energy (MeV)
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
36
10-Ne-22

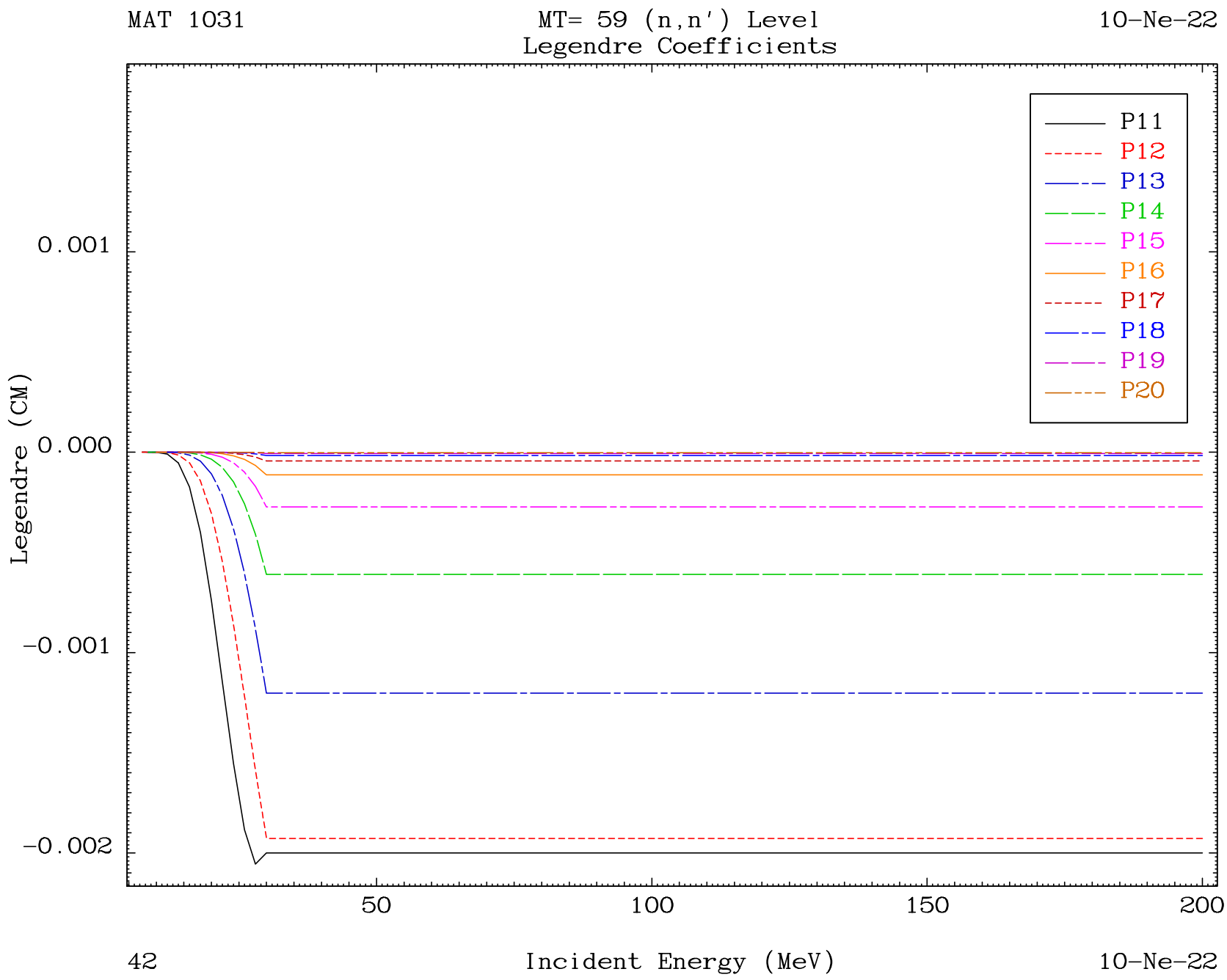

MAT 1031
MT= 57 (n,n') Level
Legendre Coefficients
10-Ne-22
X10^-3
0.0
-0.2
-0.4
-0.6
-0.8
-1.0
Legendre (CM)
50
100
150
200
Incident Energy (MeV)
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
37
10-Ne-22

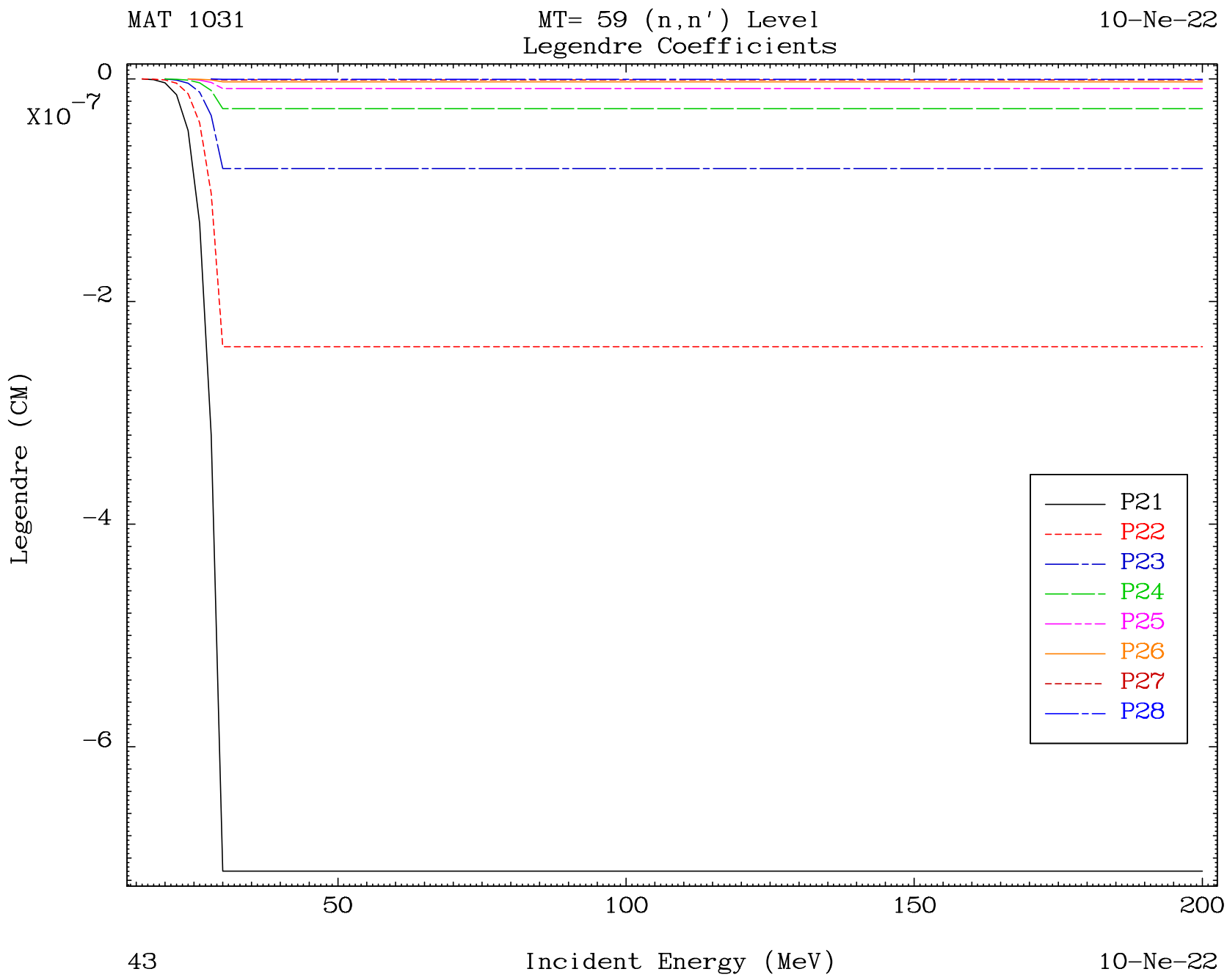

MAT 1031
MT= 57 (n,n') Level
Legendre Coefficients
10-Ne-22
X10^-7
4
3
2
1
0
Legendre (CM)
50
100
150
200
Incident Energy (MeV)
P21
P22
P23
P24
P25
P26
P27
P28
38
10-Ne-22

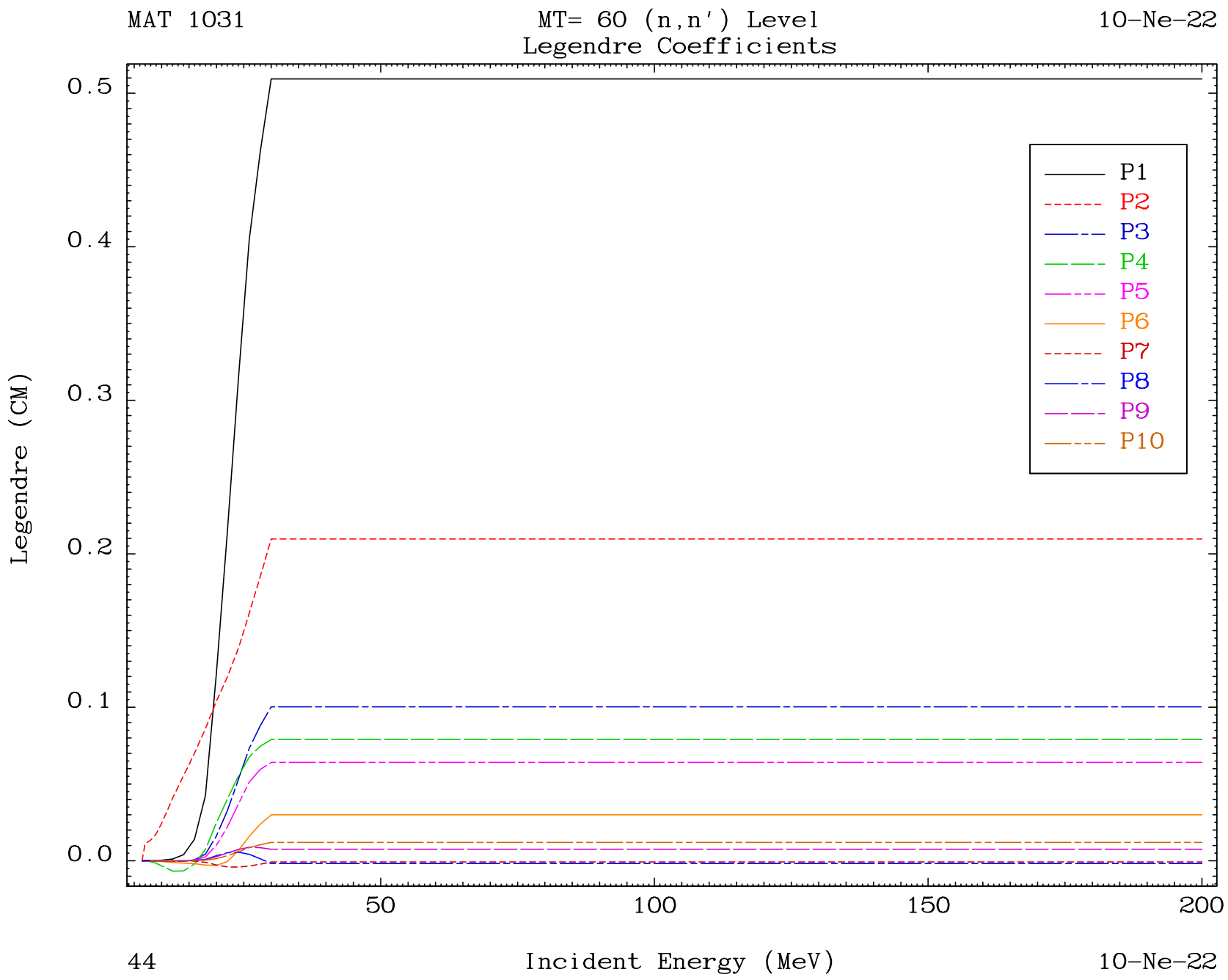

MAT 1031
MT= 58 (n,n') Level
Legendre Coefficients
10-Ne-22
0.06
0.04
0.02
0.00
-0.02
Legendre (CM)
50
100
150
200
Incident Energy (MeV)
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11
39
10-Ne-22

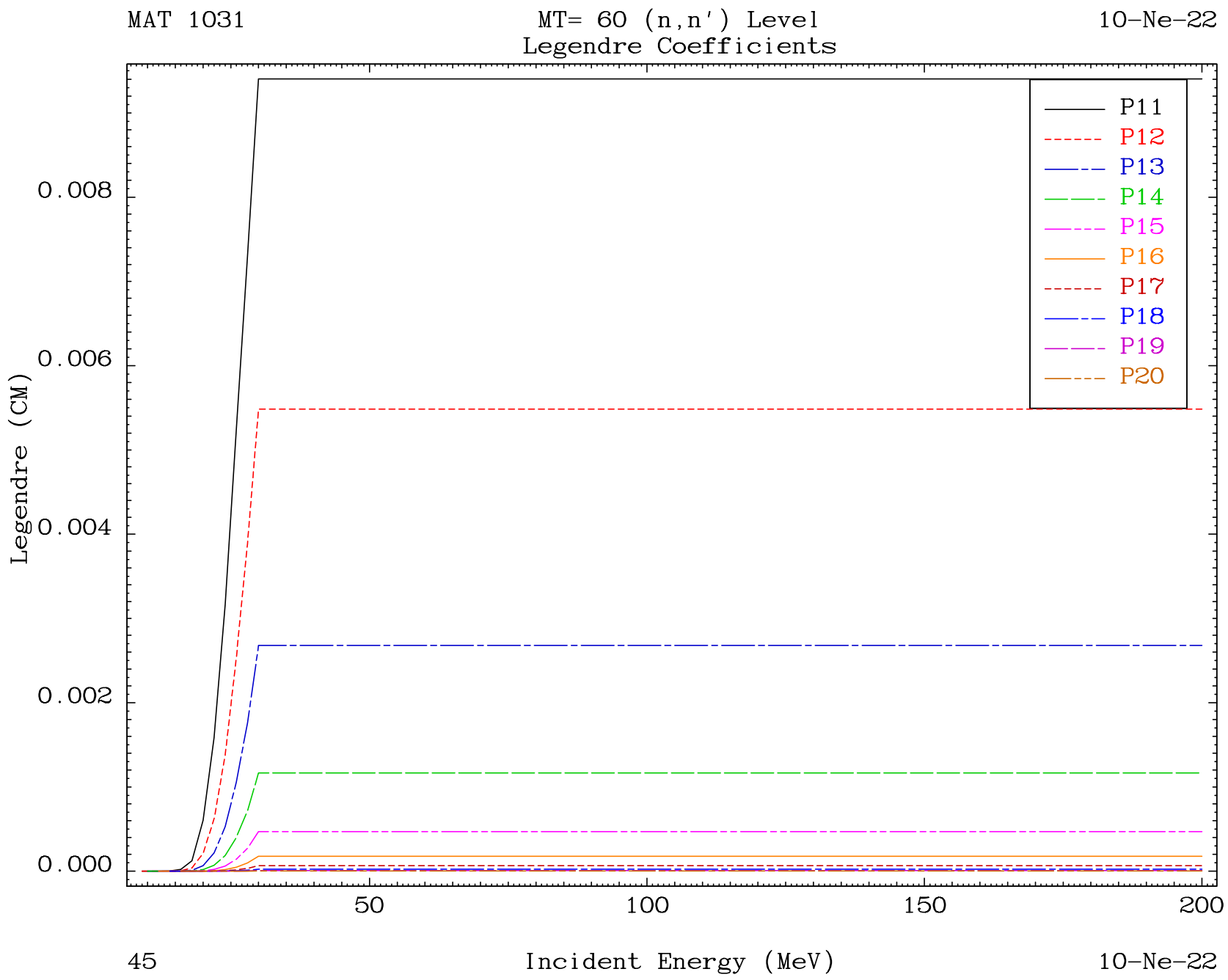

MAT 1031
MT= 58 (n,n') Level
Legendre Coefficients
10-Ne-22
X10^-5
3
2
1
0
Legendre (CM)
50
100
150
200
40
Incident Energy (MeV)
10-Ne-22
P12
P13
P14
P15
P16
P17
P18
P19
P20
P21
P22

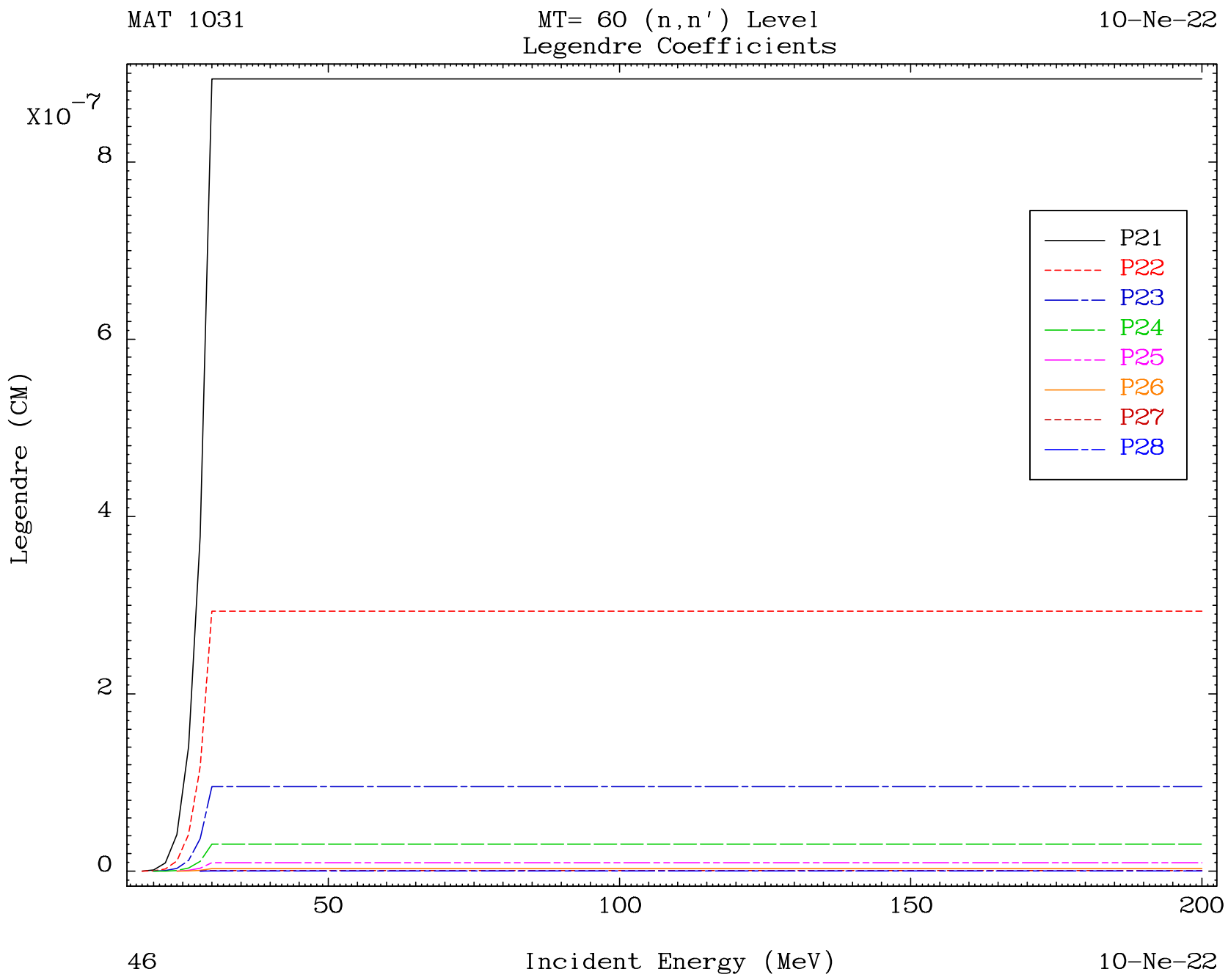

MAT 1031
MT= 59 (n,n') Level
Legendre Coefficients
10-Ne-22
0.4
0.3
0.2
0.1
0.0
Legendre (CM)
50
100
150
200
Incident Energy (MeV)
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
41
10-Ne-22

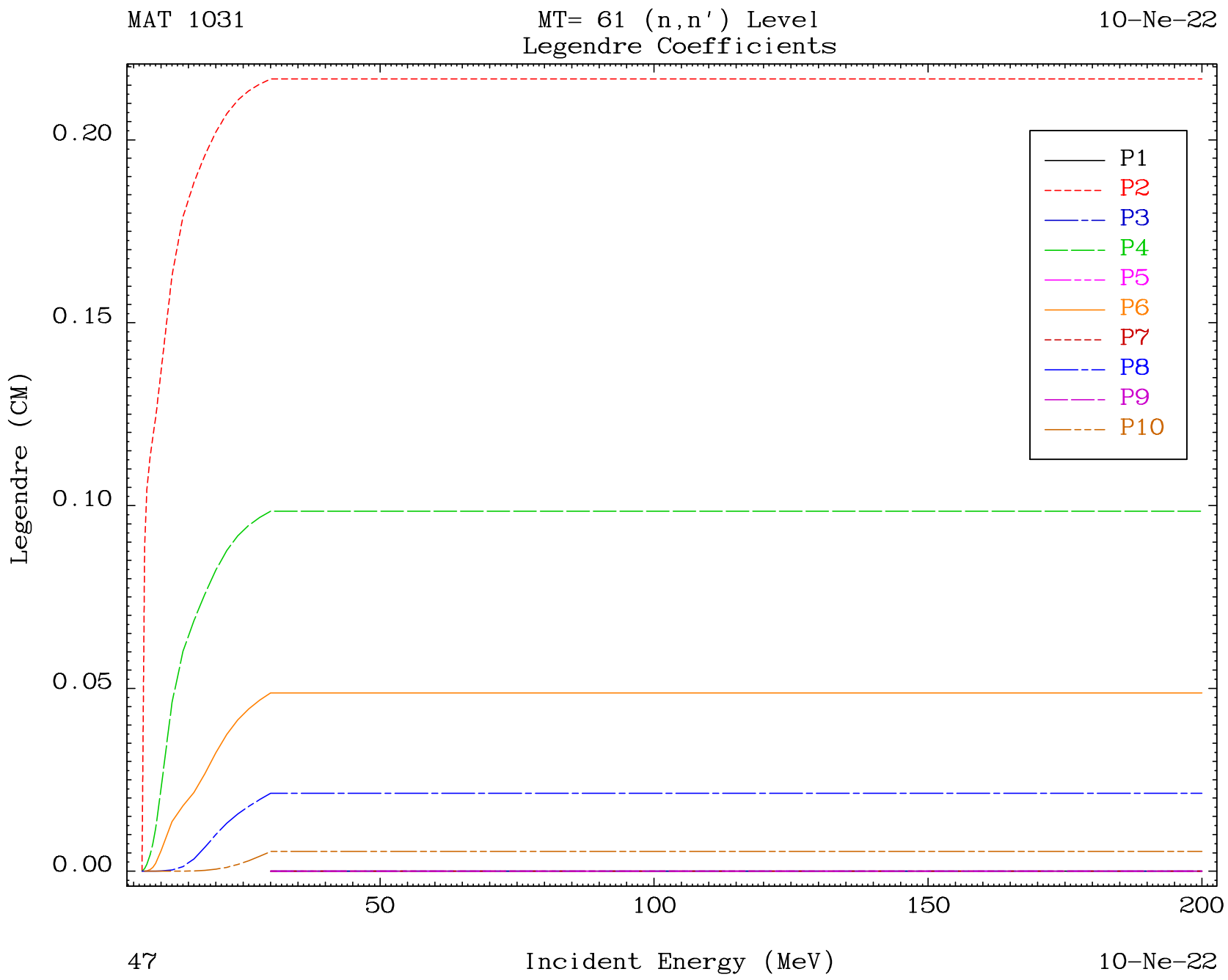

MAT 1031
MT= 59 (n,n') Level
Legendre Coefficients
10-Ne-22
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.001
0.000
-0.001
-0.002
Legendre (CM)
50
100
150
200
42
Incident Energy (MeV)
10-Ne-22

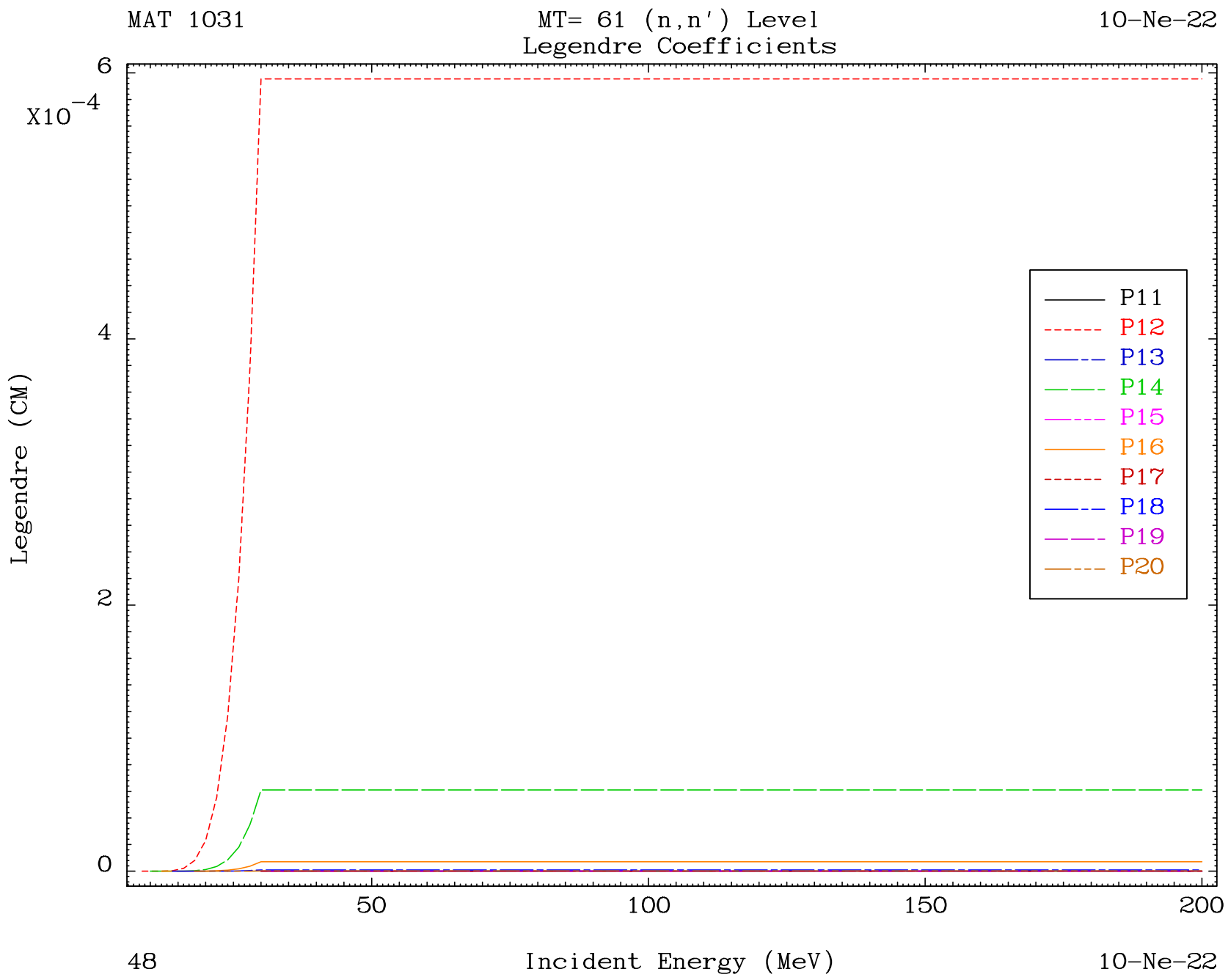

MAT 1031
MT= 59 (n,n') Level
Legendre Coefficients
10-Ne-22
0
X10^-7
-2
-4
-6
Legendre (CM)
50
100
150
200
Incident Energy (MeV)
P21
P22
P23
P24
P25
P26
P27
P28
43
10-Ne-22


MAT 1031
MT= 60 (n,n') Level
Legendre Coefficients
10-Ne-22
0.5
0.4
0.3
0.2
0.1
0.0
Legendre (CM)
50
100
150
200
Incident Energy (MeV)
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
44
10-Ne-22

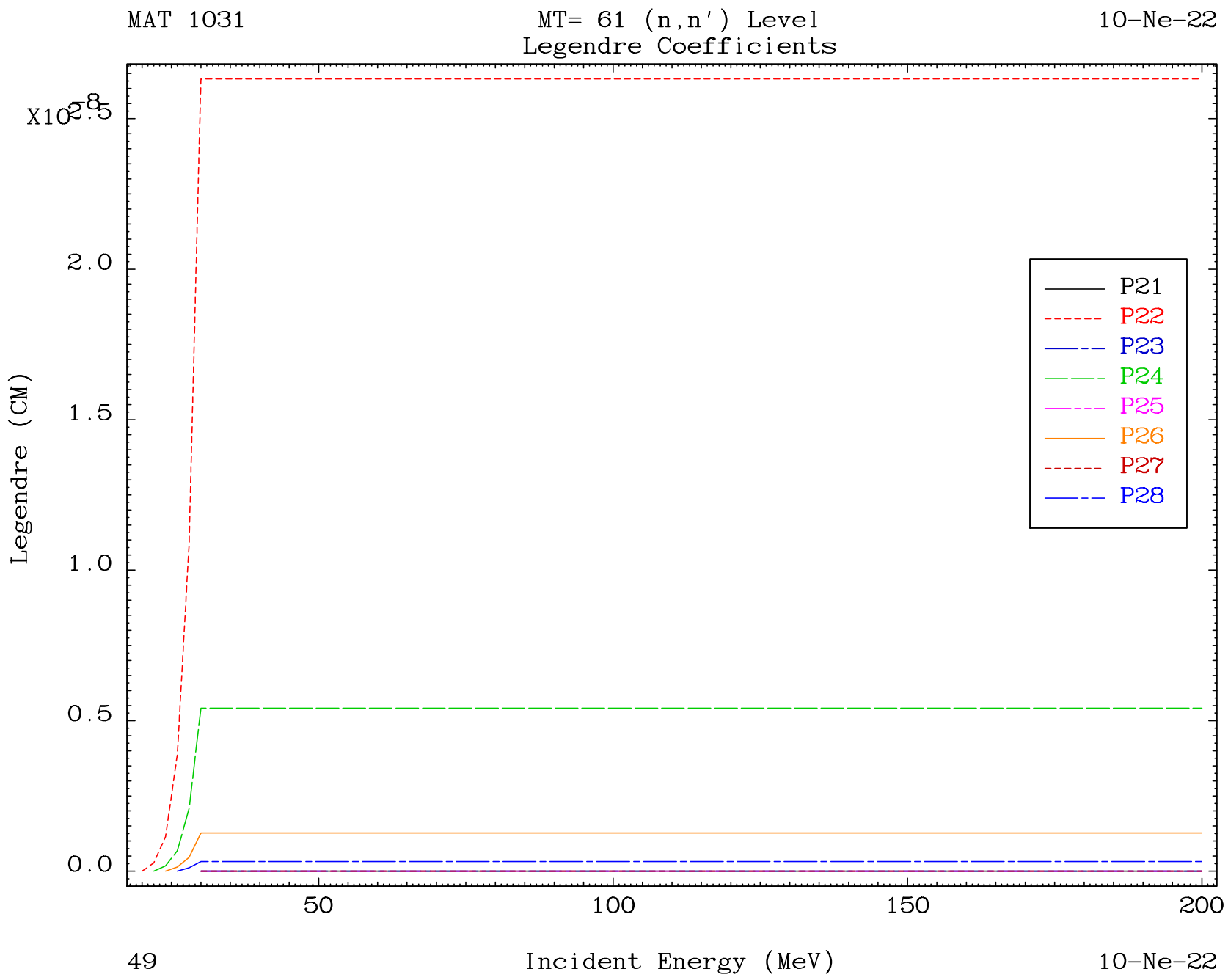

MAT 1031
MT= 60 (n,n') Level
Legendre Coefficients
10-Ne-22
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.008
0.006
0.004
0.002
0.000
Legendre (CM)
50
100
150
200
45
Incident Energy (MeV)
10-Ne-22

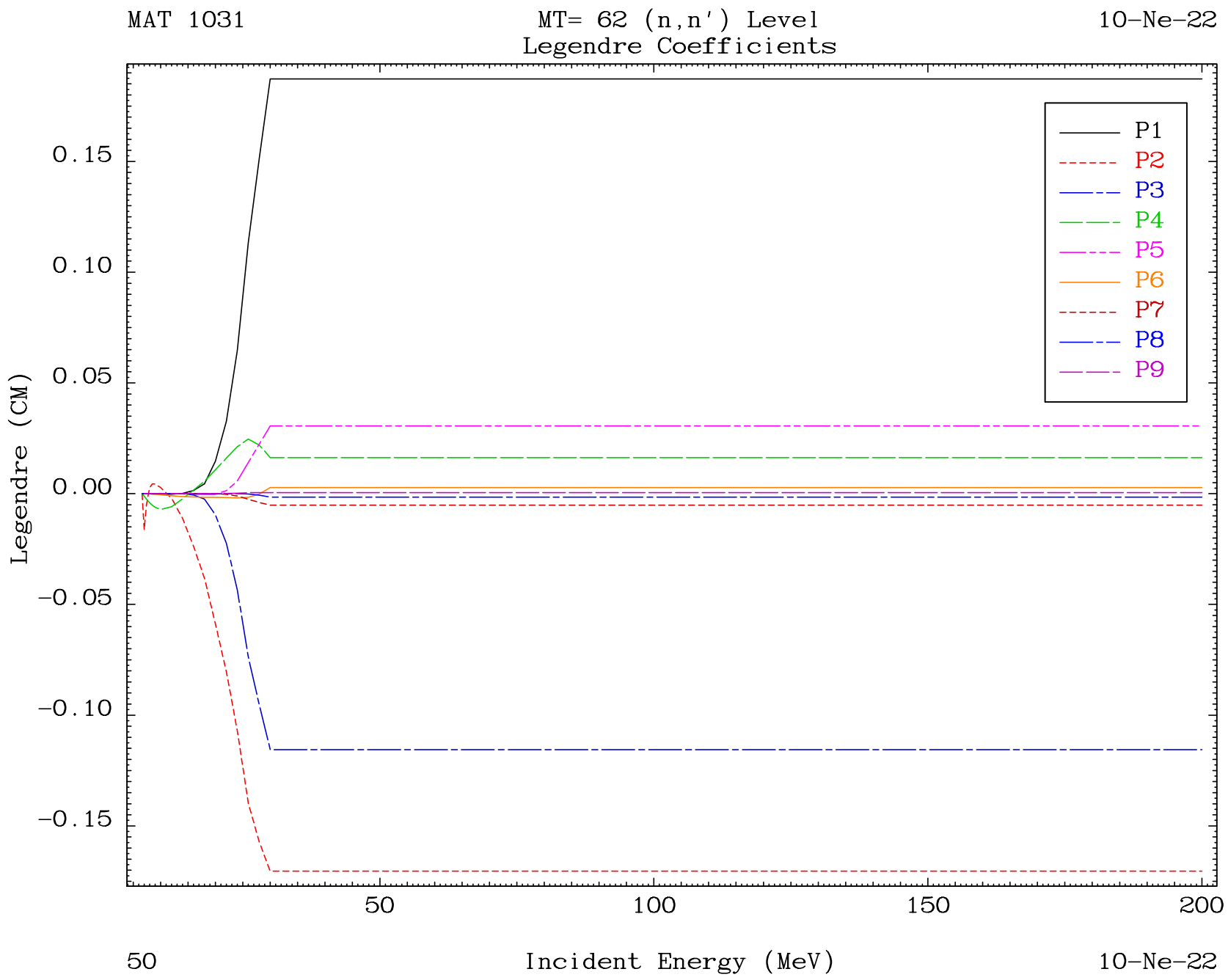

MAT 1031
MT= 60 (n,n') Level
Legendre Coefficients
10-Ne-22
X10^-7
8
6
4
2
0
Legendre (CM)
50
100
150
200
Incident Energy (MeV)
P21
P22
P23
P24
P25
P26
P27
P28
46
10-Ne-22

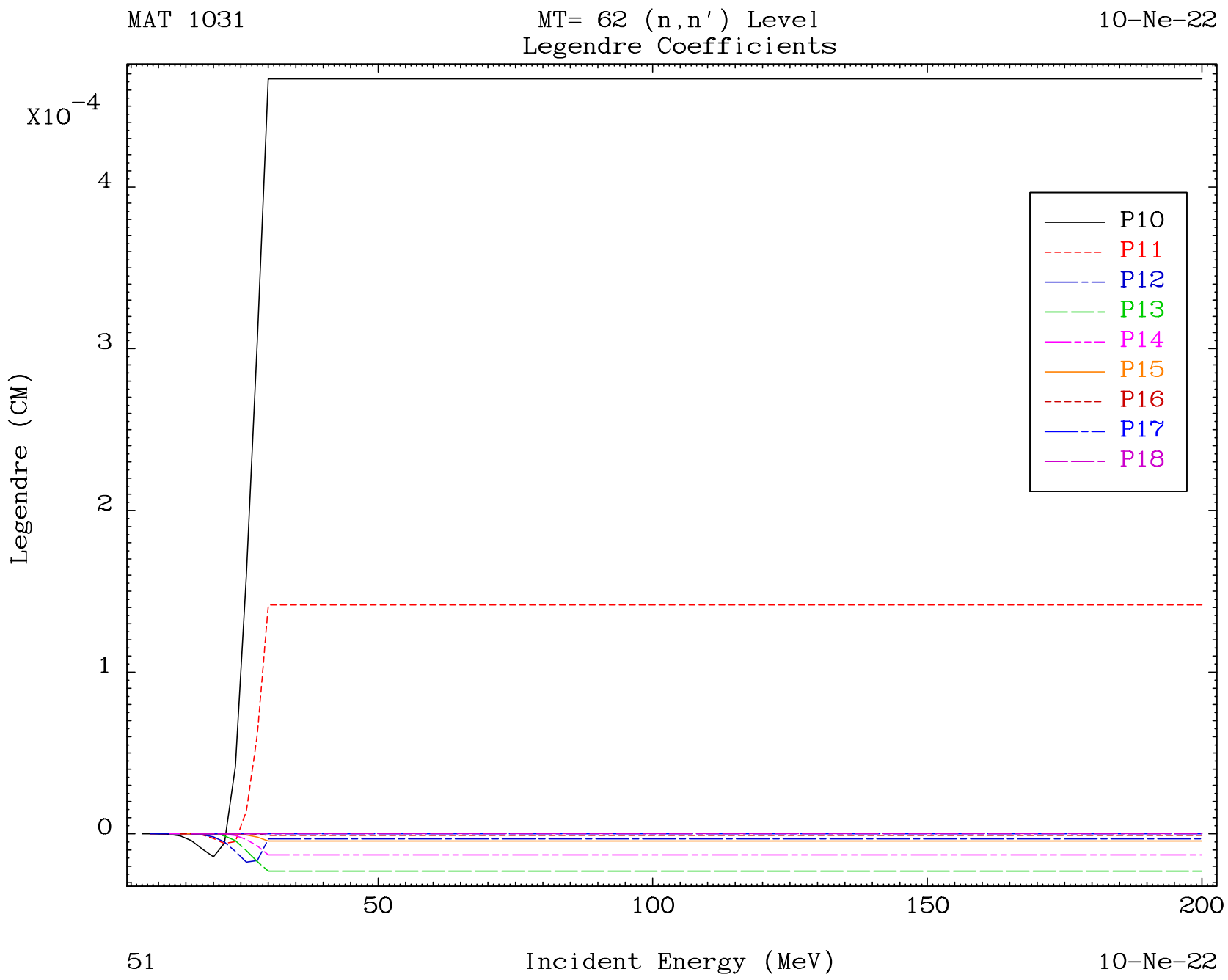

MAT 1031
MT= 61 (n,n') Level
Legendre Coefficients
10-Ne-22
0.20
0.15
0.10
0.05
0.00
Legendre (CM)
50
100
150
200
Incident Energy (MeV)
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
47
10-Ne-22

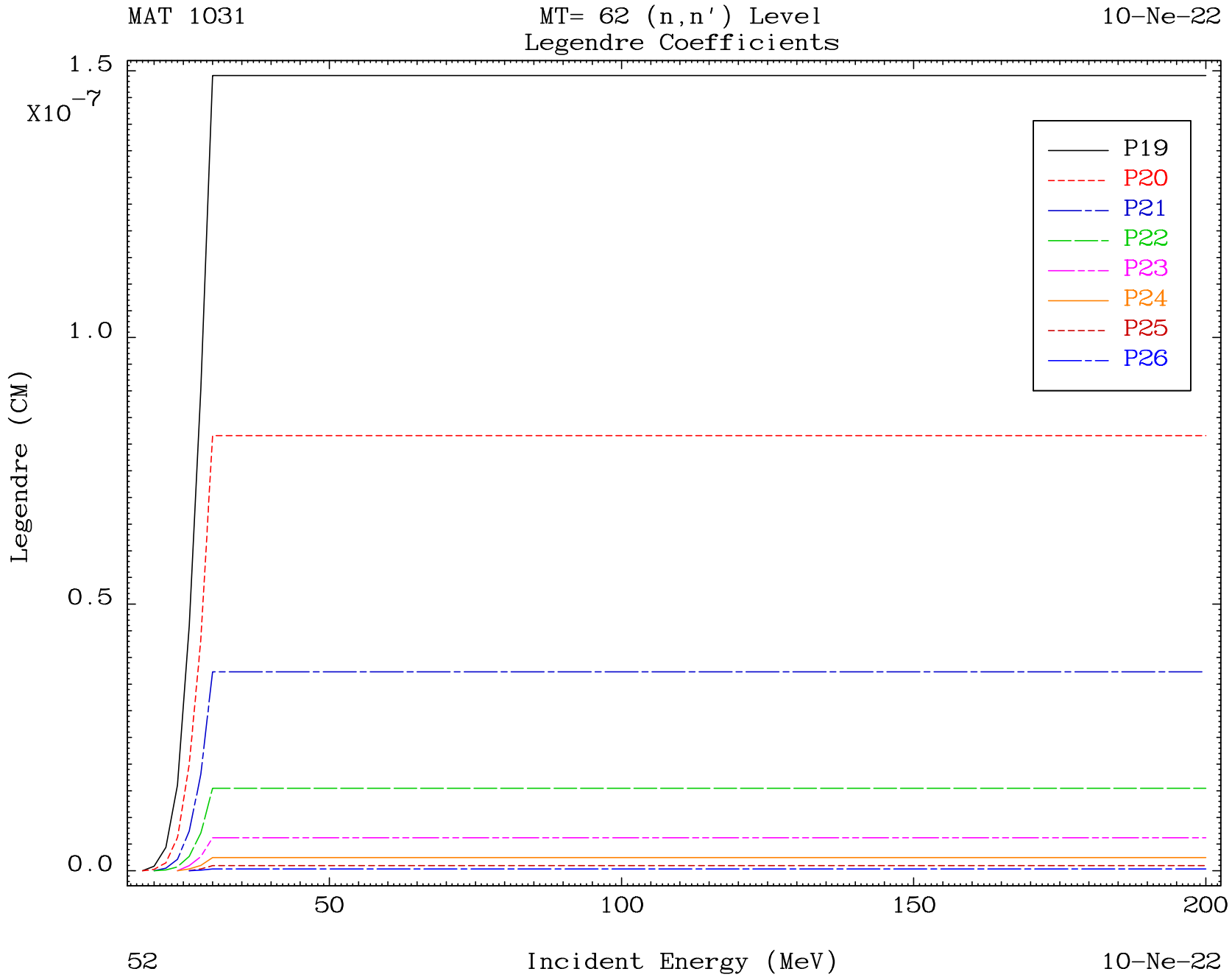

MAT 1031
MT= 61 (n,n') Level
Legendre Coefficients
10-Ne-22
X10^-4
6
4
2
0
Legendre (CM)
50
100
150
200
Incident Energy (MeV)
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20

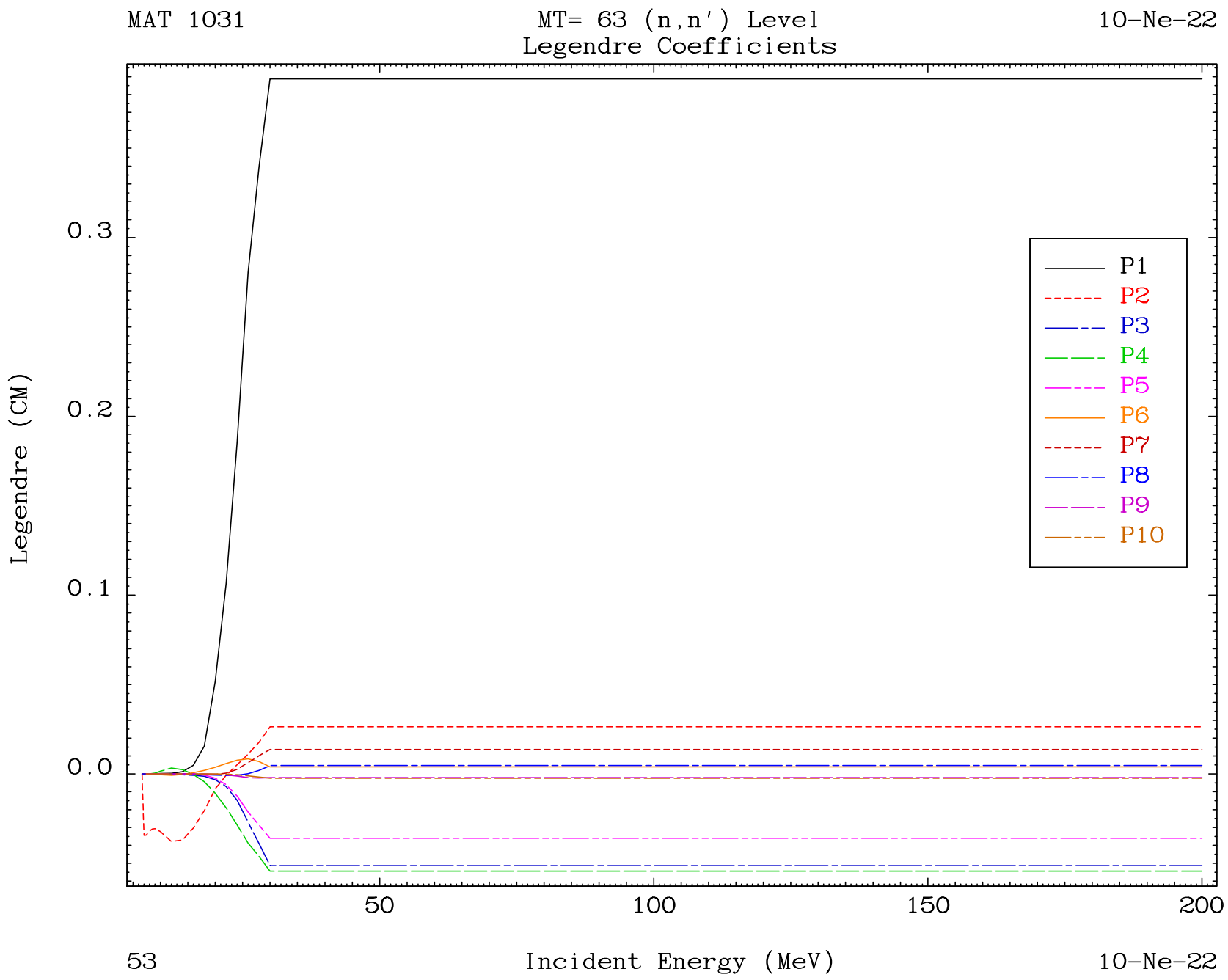
10-Ne-22

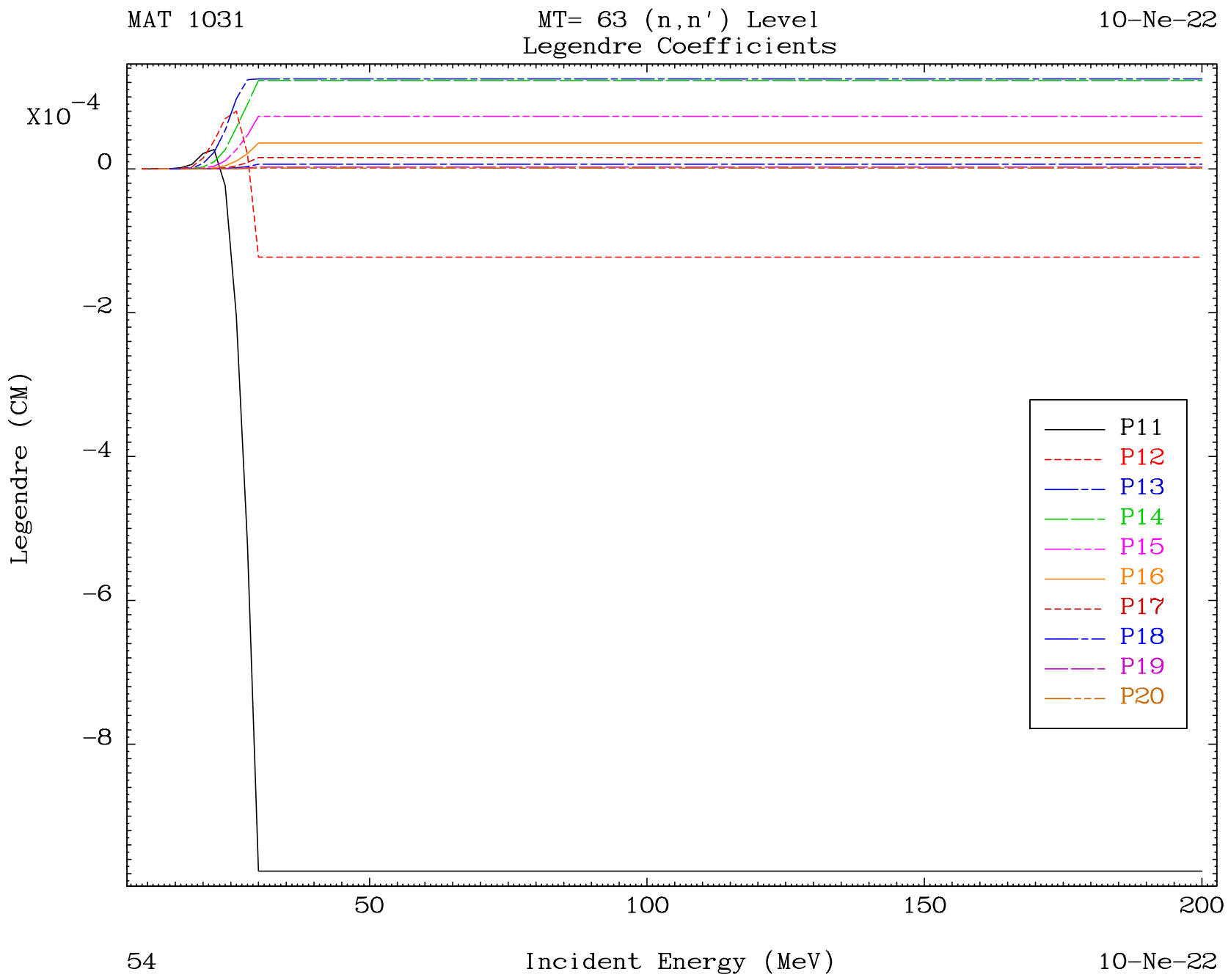

MAT 1031
MT= 61 (n,n') Level
Legendre Coefficients
10-Ne-22
X10-8
2.5
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
50
100
150
200
Incident Energy (MeV)
P21
P22
P23
P24
P25
P26
P27
P28
49
10-Ne-22

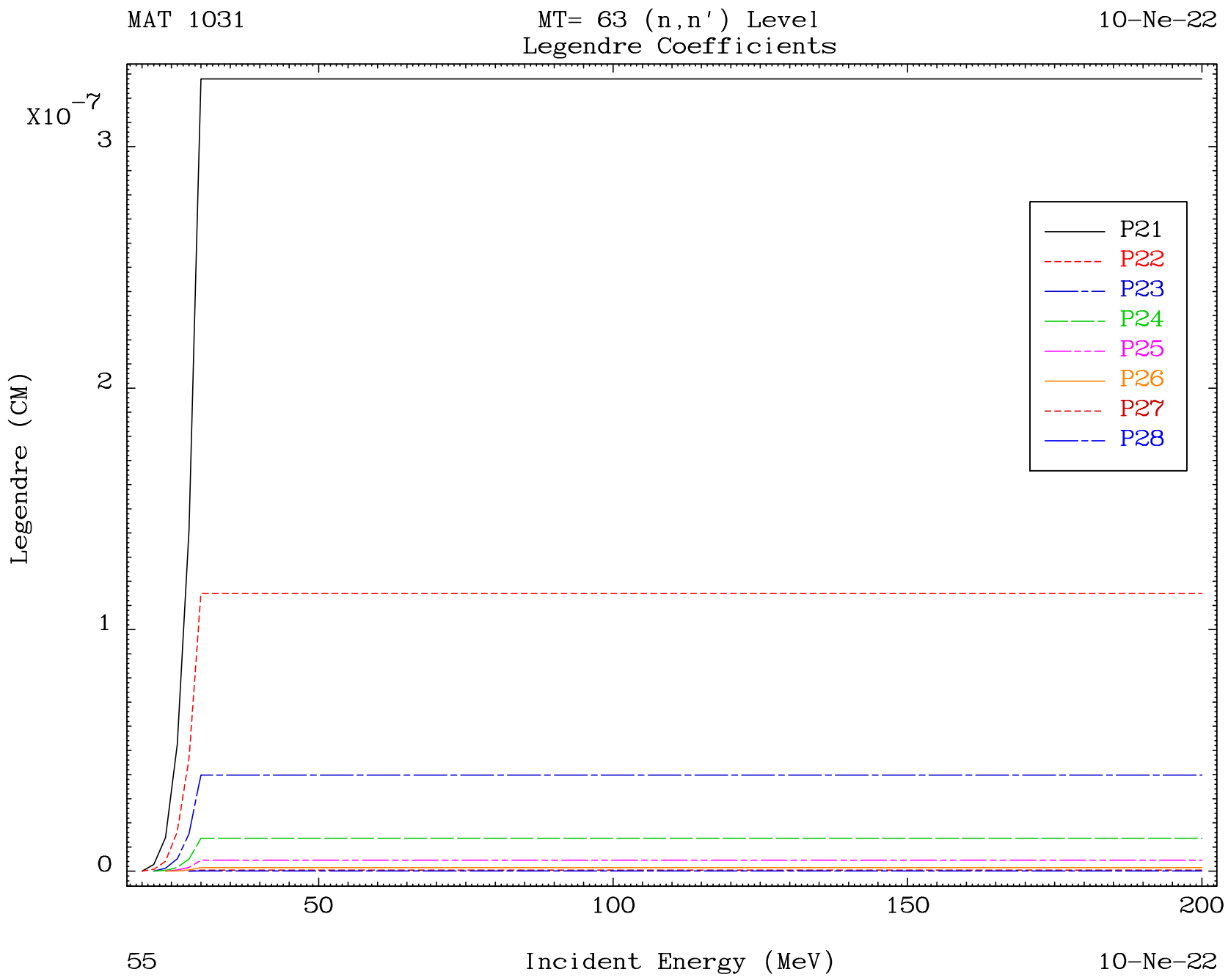

MAT 1031
MT= 62 (n,n') Level
Legendre Coefficients
10-Ne-22
P1
P2
P3
P4
P5
P6
P7
P8
P9
0.15
0.10
0.05
0.00
-0.05
-0.10
-0.15
Legendre (CM)
50
100
150
200
50
Incident Energy (MeV)
10-Ne-22

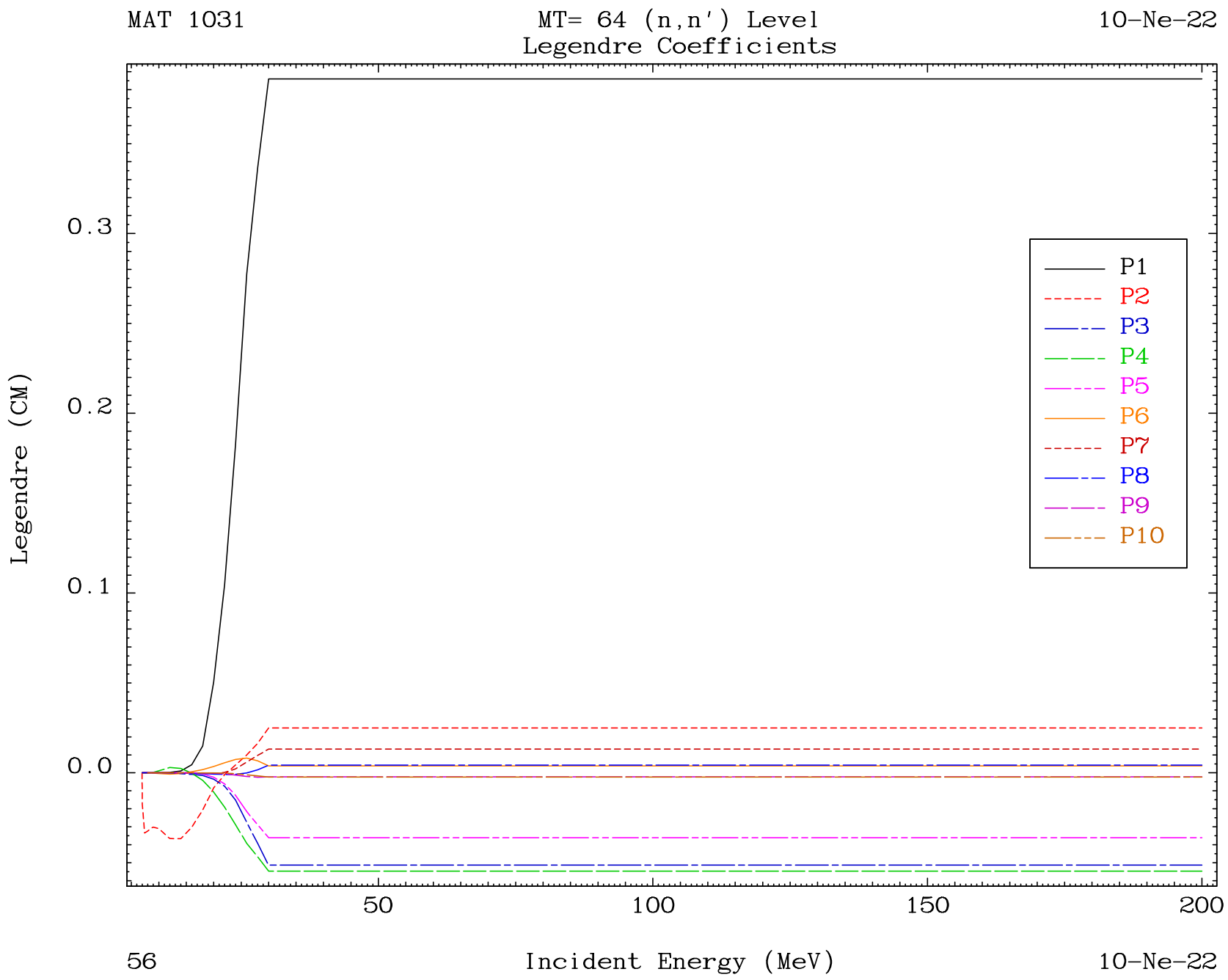

MAT 1031
MT= 62 (n,n') Level
Legendre Coefficients
10-Ne-22
X10^-4
4
3
2
1
0
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
50
100
150
200
Incident Energy (MeV)
51
10-Ne-22

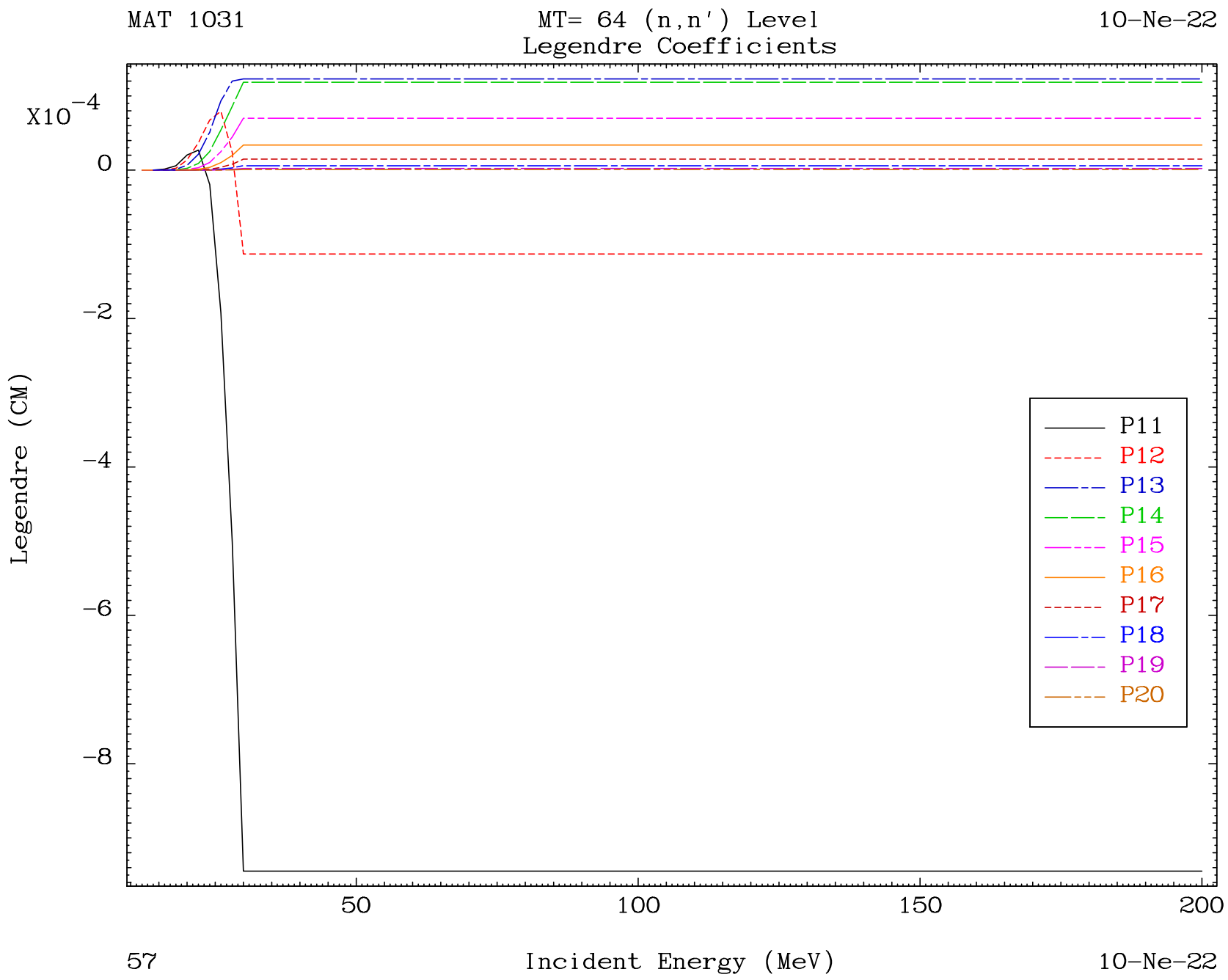

MAT 1031
MT= 62 (n,n') Level
Legendre Coefficients
10-Ne-22
1.5
X10^-7
1.0
0.5
0.0
Legendre (CM)
50
100
150
200
52
Incident Energy (MeV)
10-Ne-22
P19
P20
P21
P22
P23
P24
P25
P26


MAT 1031
MT= 63 (n,n') Level
Legendre Coefficients
10-Ne-22
0.3
0.2
0.1
0.0
Legendre (CM)
50
100
150
200
Incident Energy (MeV)
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
53
10-Ne-22

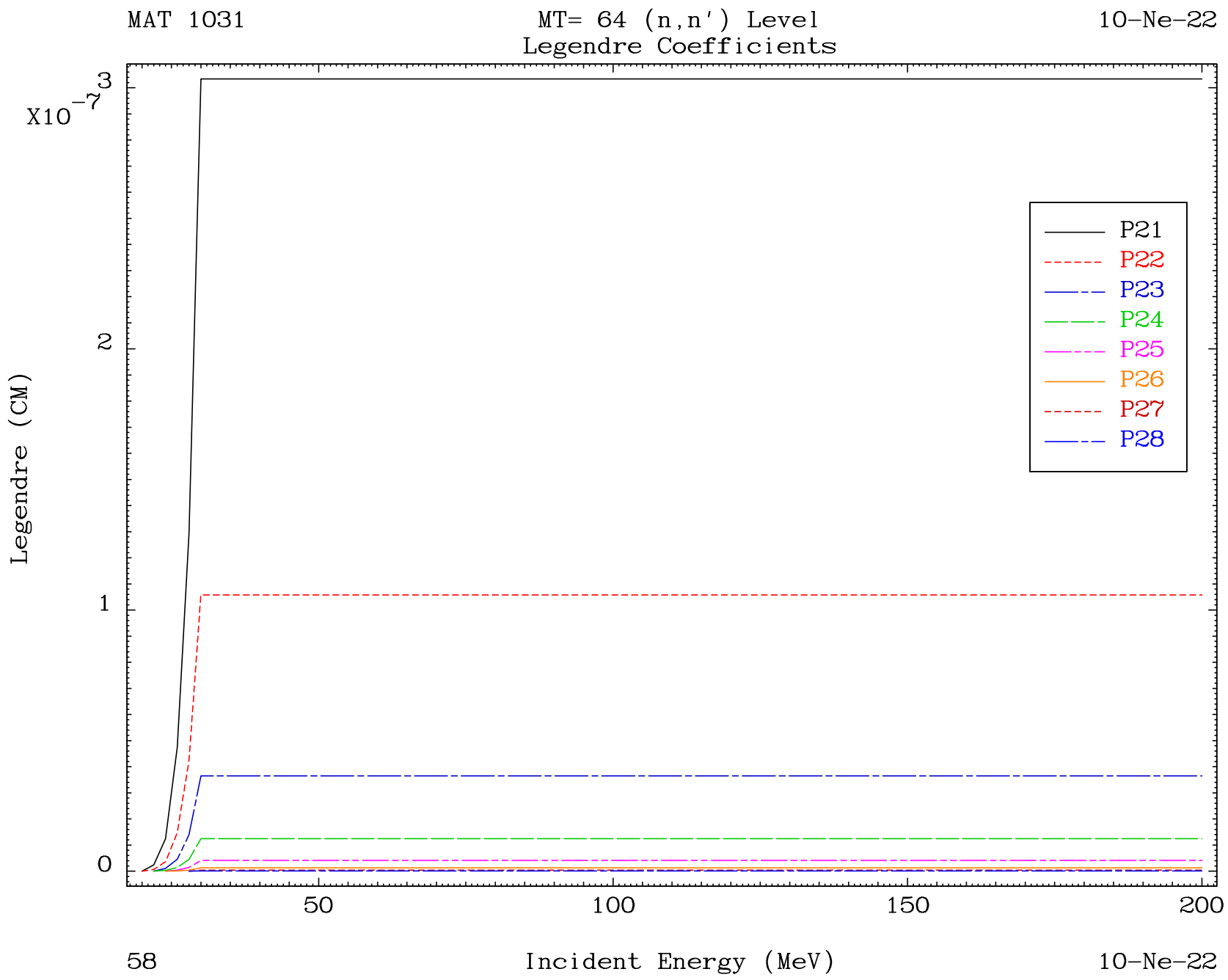

MAT 1031
MT= 63 (n,n') Level
Legendre Coefficients
10-Ne-22
X10^-4
0
-2
-4
-6
-8
Legendre (CM)
50
100
150
200
Incident Energy (MeV)
54
10-Ne-22
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20

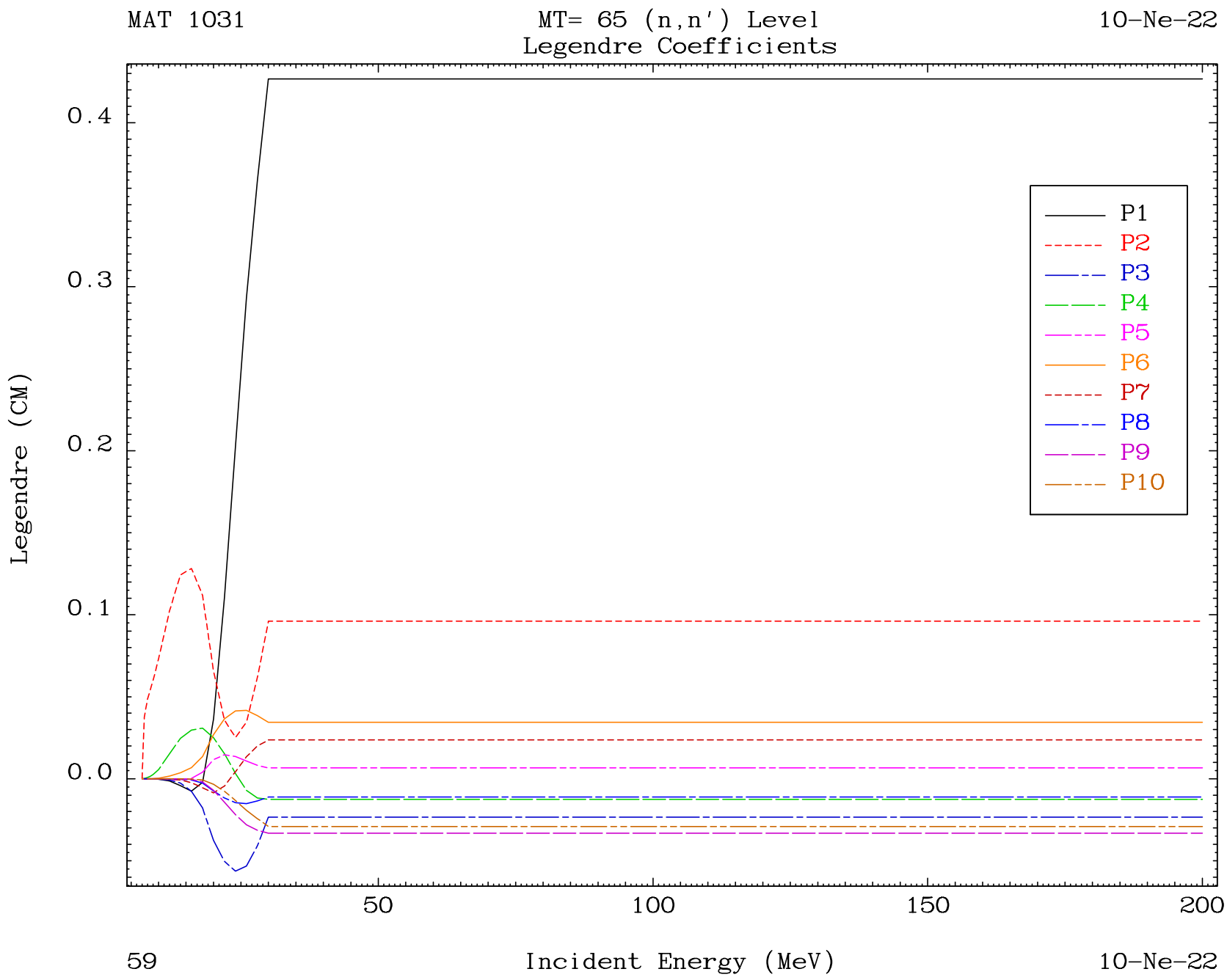

MAT 1031
MT= 63 (n,n') Level
Legendre Coefficients
10-Ne-22
X10^-7
3
2
1
0
Legendre (CM)
50
100
150
200
55
Incident Energy (MeV)
10-Ne-22
P21
P22
P23
P24
P25
P26
P27
P28

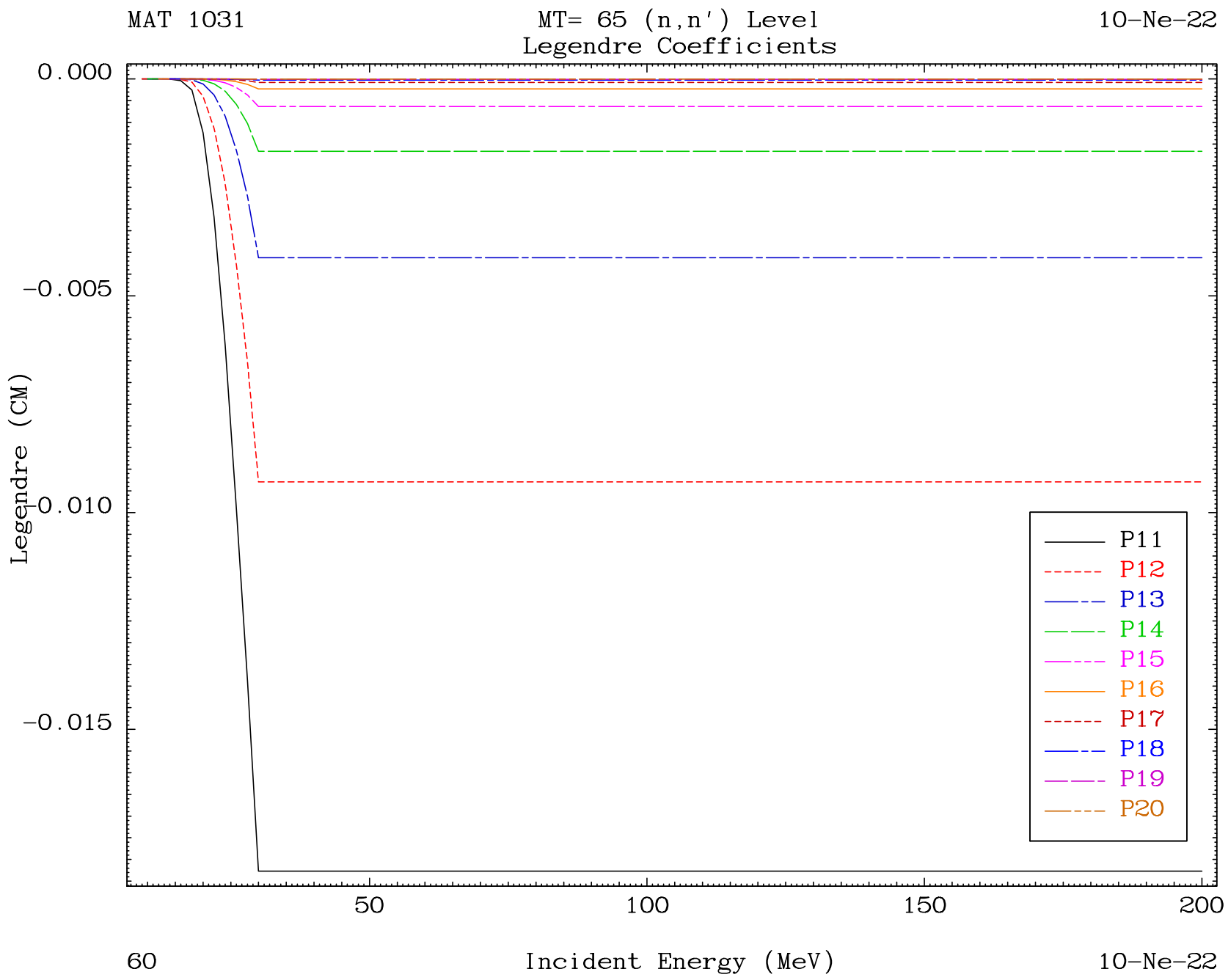

MAT 1031
MT= 64 (n,n') Level
Legendre Coefficients
10-Ne-22
Legendre (CM)
0.3
0.2
0.1
0.0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
56
Incident Energy (MeV)
10-Ne-22

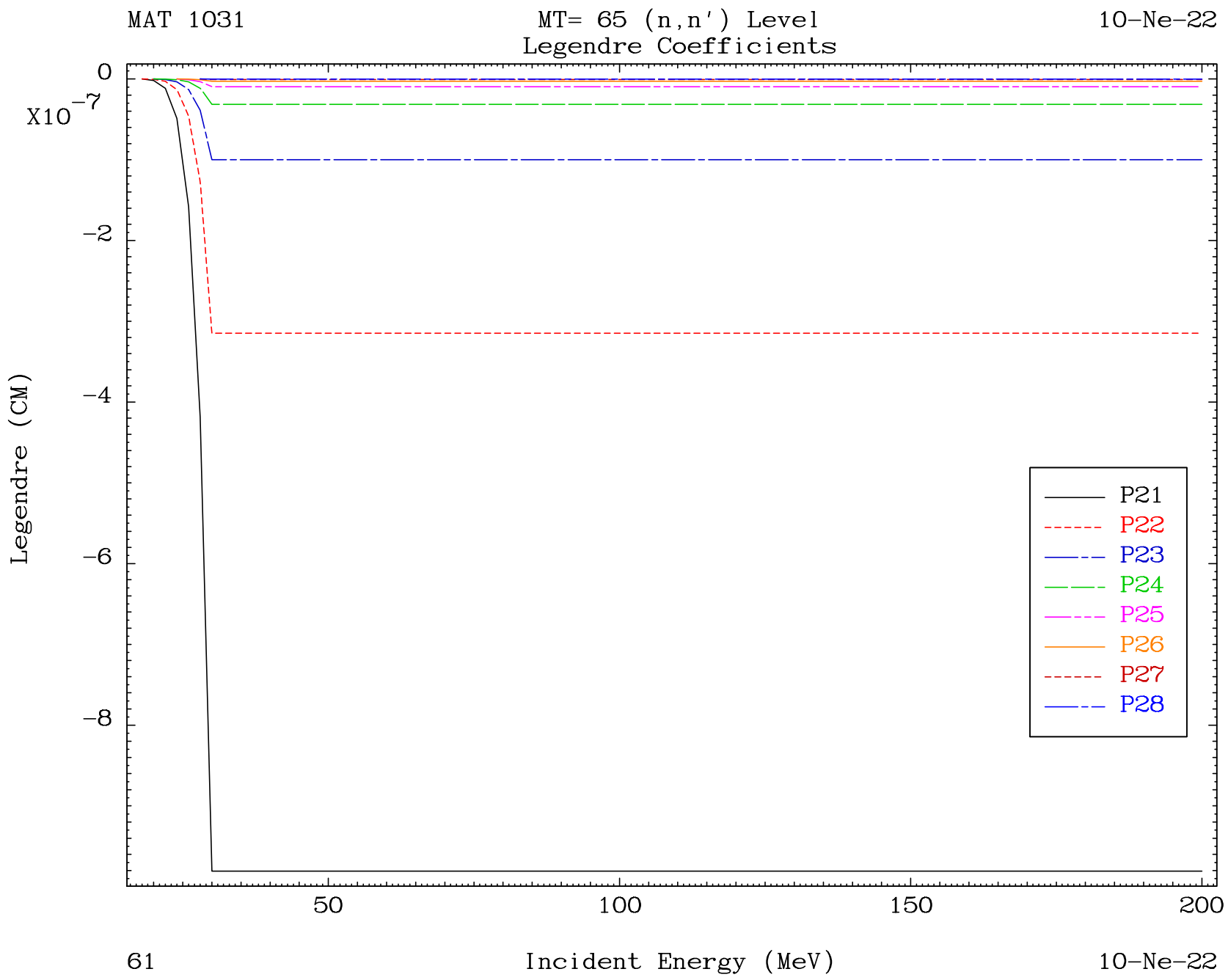

MAT 1031
MT= 64 (n,n') Level
Legendre Coefficients
10-Ne-22
X10^-4
0
-2
-4
-6
-8
Legendre (CM)
50
100
150
200
Incident Energy (MeV)
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20

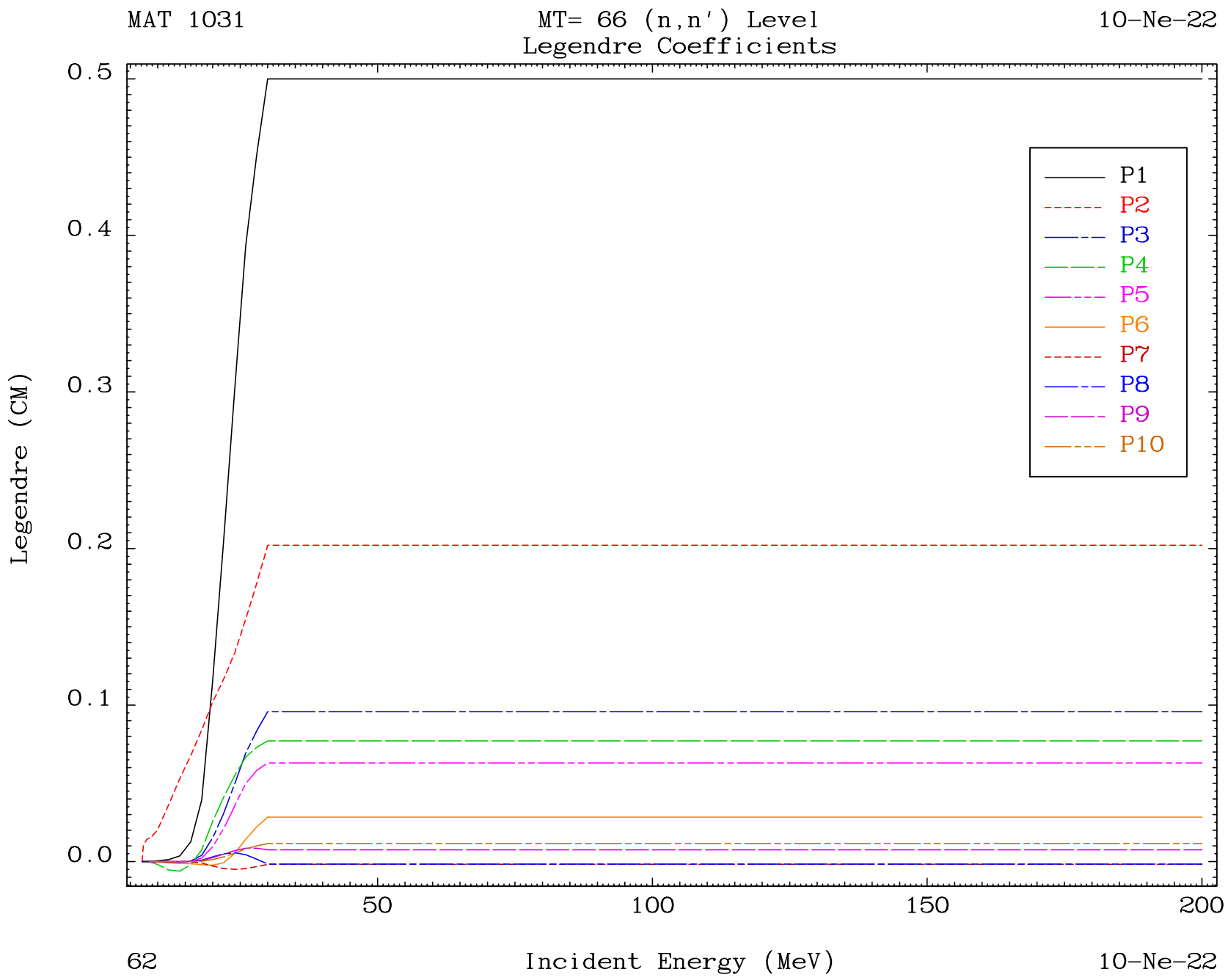
10-Ne-22

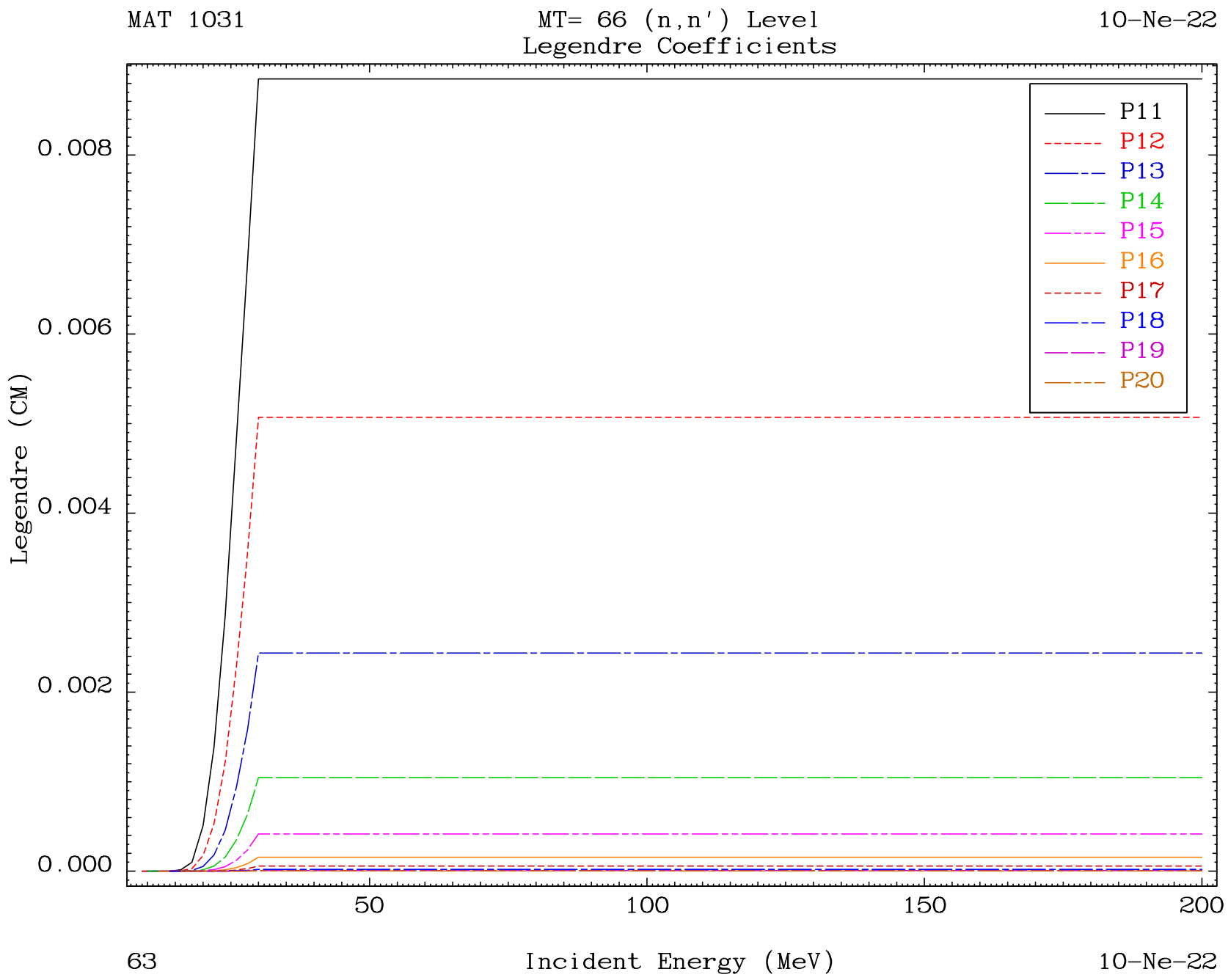

MAT 1031
MT= 64 (n,n') Level
Legendre Coefficients
10-Ne-22
X10^-2
3
2
1
0
Legendre (CM)
50
100
150
200
Incident Energy (MeV)
P21
P22
P23
P24
P25
P26
P27
P28
58
10-Ne-22

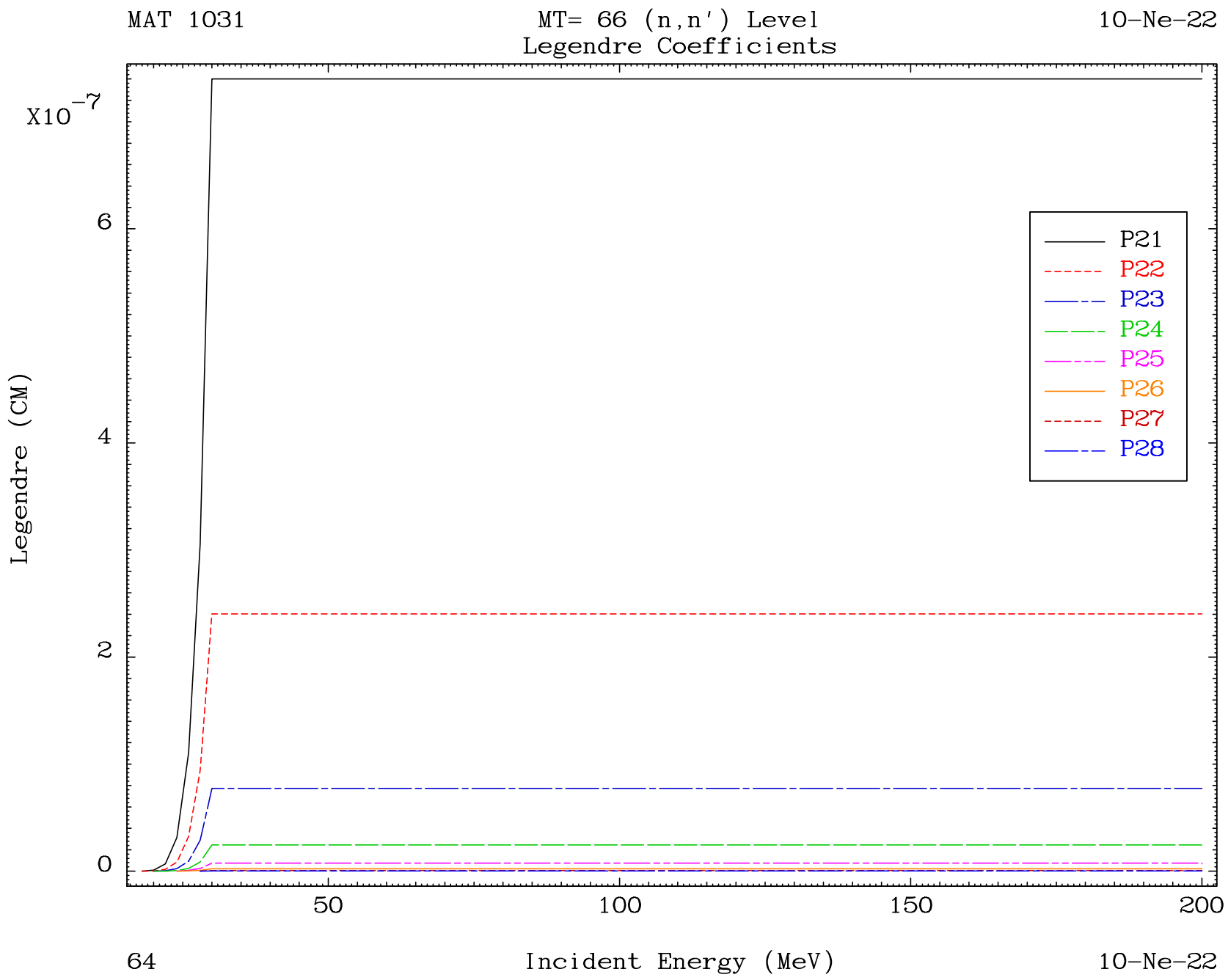

MAT 1031
MT= 65 (n,n') Level
Legendre Coefficients
10-Ne-22
0.4
0.3
0.2
0.1
0.0
Legendre (CM)
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
59
Incident Energy (MeV)
10-Ne-22

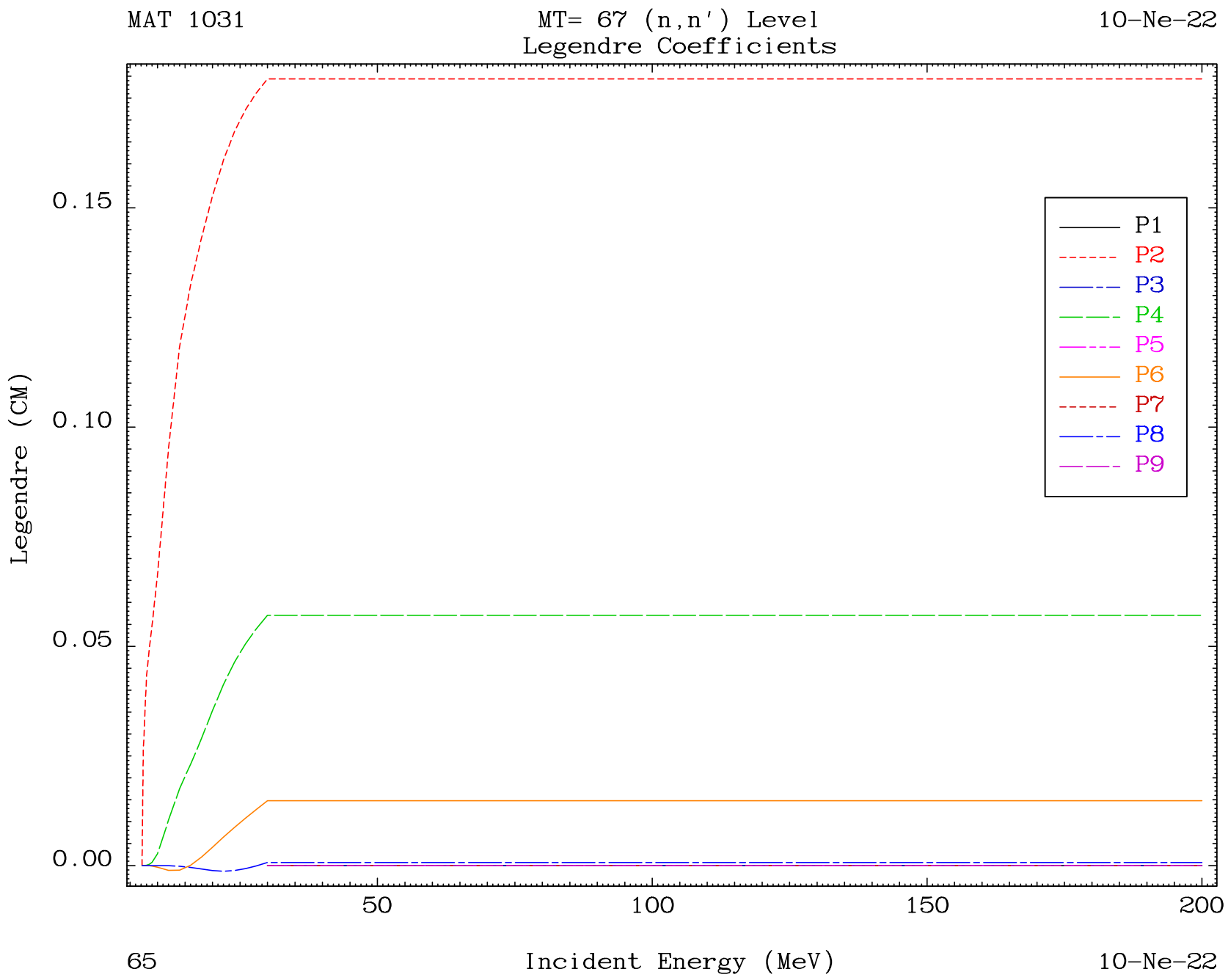

MAT 1031
MT= 65 (n,n') Level
Legendre Coefficients
10-Ne-22
0.000
-0.005
-0.010
-0.015
Legendre (CM)
50
100
150
200
60
Incident Energy (MeV)
10-Ne-22
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20

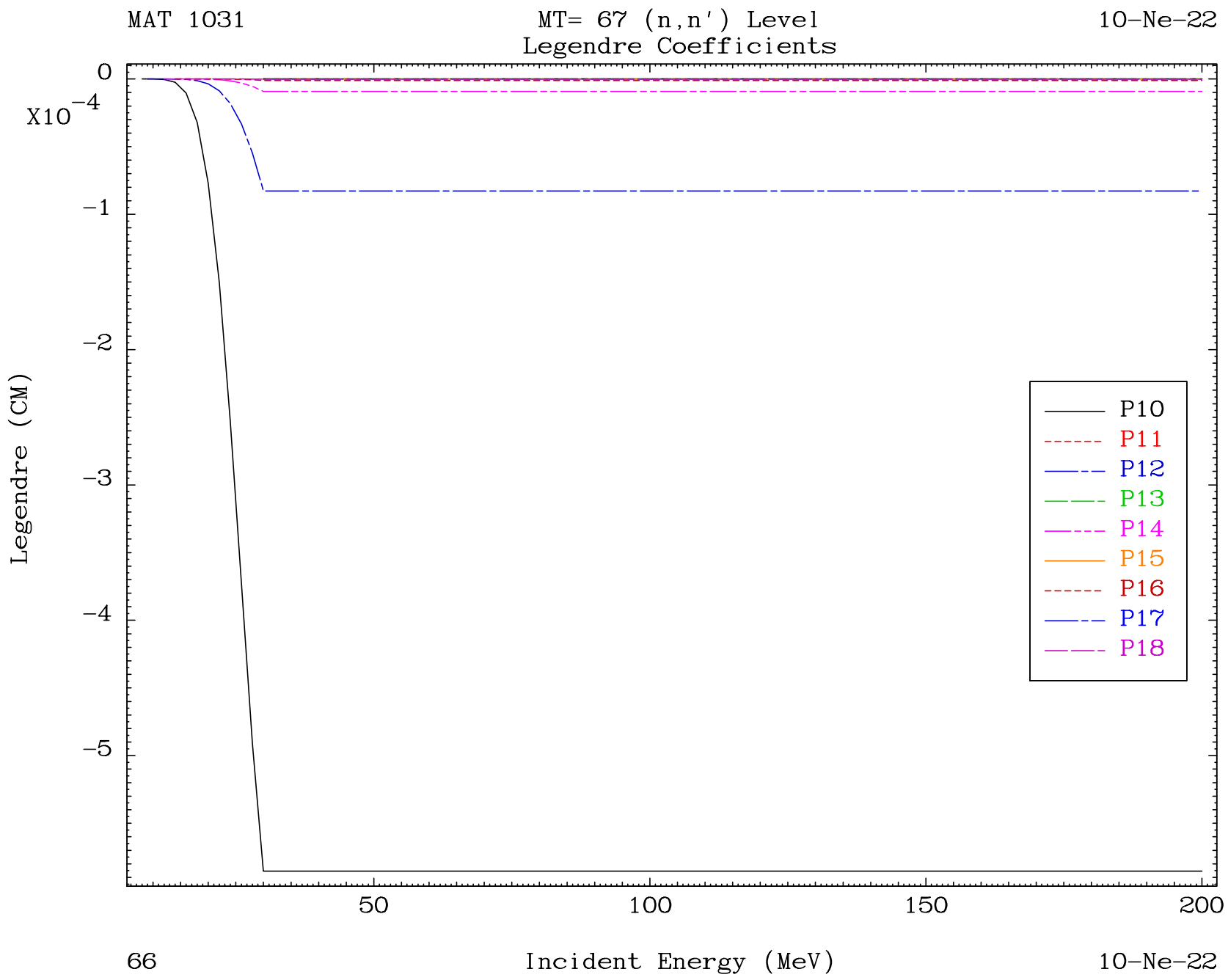

MAT 1031
MT= 65 (n,n') Level
Legendre Coefficients
10-Ne-22
0
X10^-7
-2
-4
-6
-8
Legendre (CM)
50
100
150
200
Incident Energy (MeV)
61
10-Ne-22
P21
P22
P23
P24
P25
P26
P27
P28

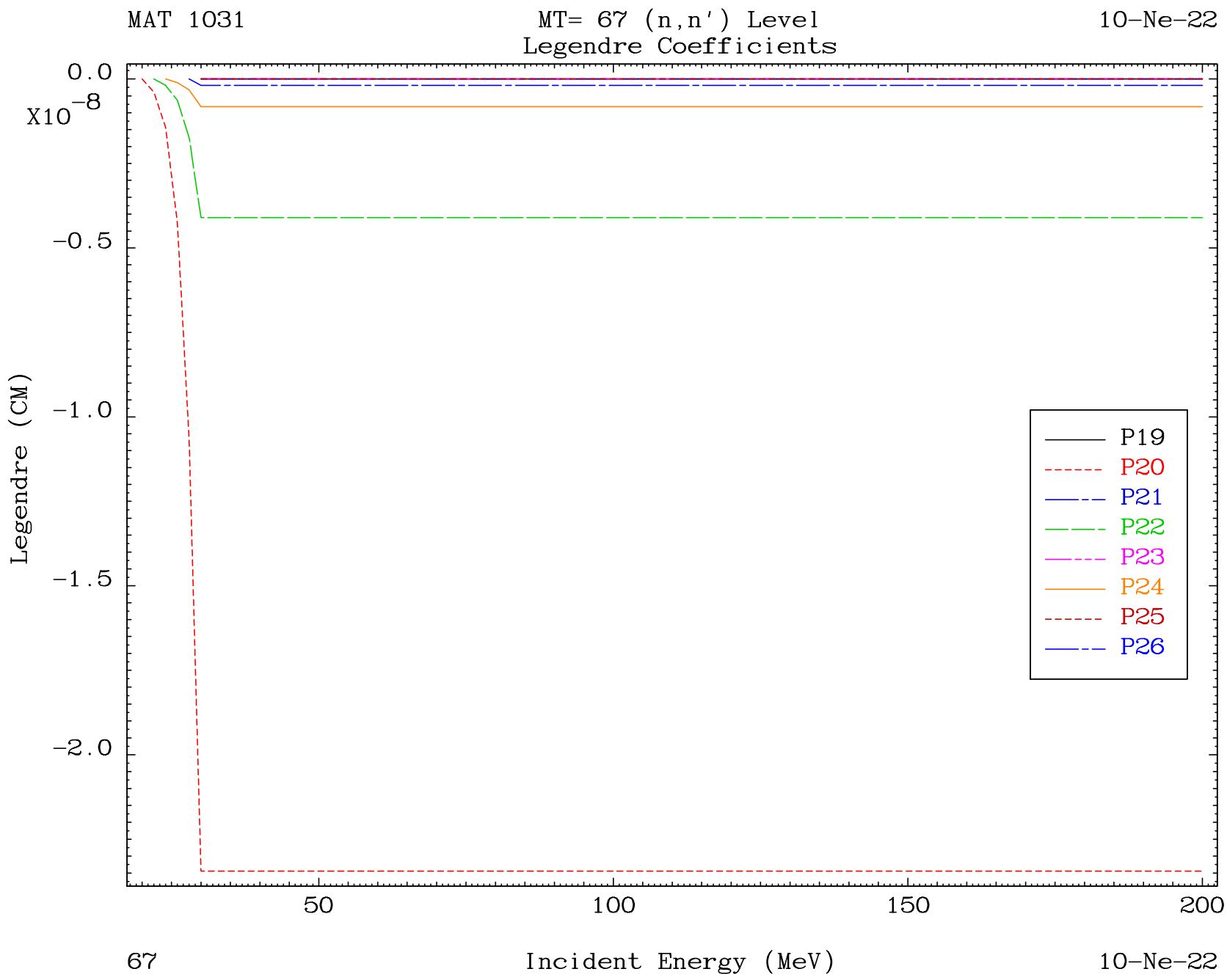

MAT 1031
MT= 66 (n,n') Level
Legendre Coefficients
10-Ne-22
0.5
0.4
0.3
0.2
0.1
0.0
Legendre (CM)
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
62
Incident Energy (MeV)
10-Ne-22


MAT 1031
MT= 66 (n,n') Level
Legendre Coefficients
10-Ne-22
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.008
0.006
0.004
0.002
0.000
Legendre (CM)
50
100
150
200
63
Incident Energy (MeV)
10-Ne-22


MAT 1031
MT= 66 (n,n') Level
Legendre Coefficients
10-Ne-22
X10^-7
6
4
2
0
Legendre (CM)
50
100
150
200
Incident Energy (MeV)
P21
P22
P23
P24
P25
P26
P27
P28
64
10-Ne-22


MAT 1031
MT= 67 (n,n') Level
Legendre Coefficients
10-Ne-22
0.15
0.10
0.05
0.00
Legendre (CM)
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
65
Incident Energy (MeV)
10-Ne-22


MAT 1031
MT= 67 (n,n') Level
Legendre Coefficients
10-Ne-22
0
X10^-4
-1
-2
-3
-4
-5
Legendre (CM)
50
100
150
200
Incident Energy (MeV)
66
10-Ne-22
P10
P11
P12
P13
P14
P15
P16
P17
P18


MAT 1031
MT= 67 (n,n') Level
Legendre Coefficients
10-Ne-22
0.0
X10^-8
-0.5
-1.0
-1.5
-2.0
Legendre (CM)
50
100
150
200
67
Incident Energy (MeV)
10-Ne-22
P19
P20
P21
P22
P23
P24
P25
P26