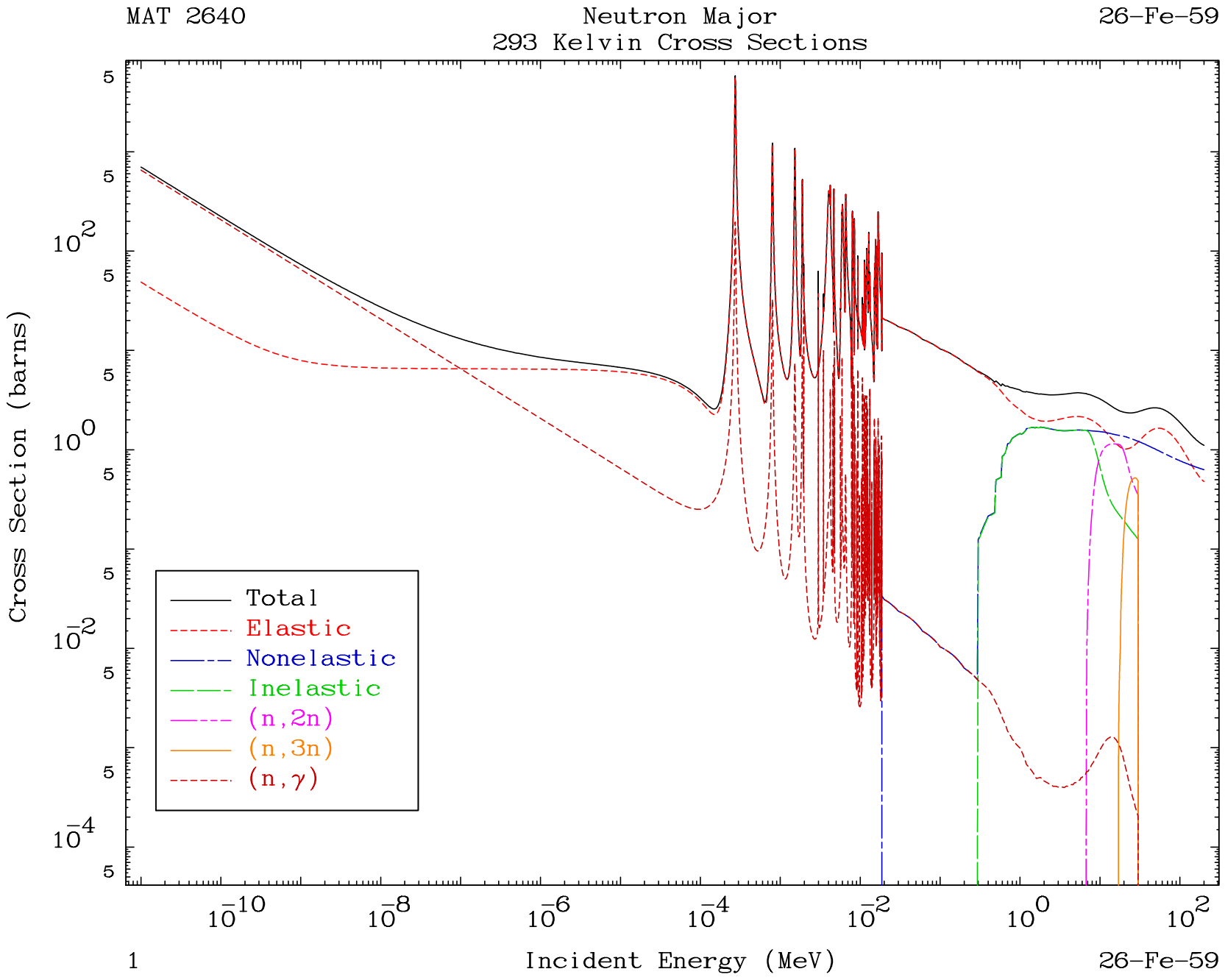
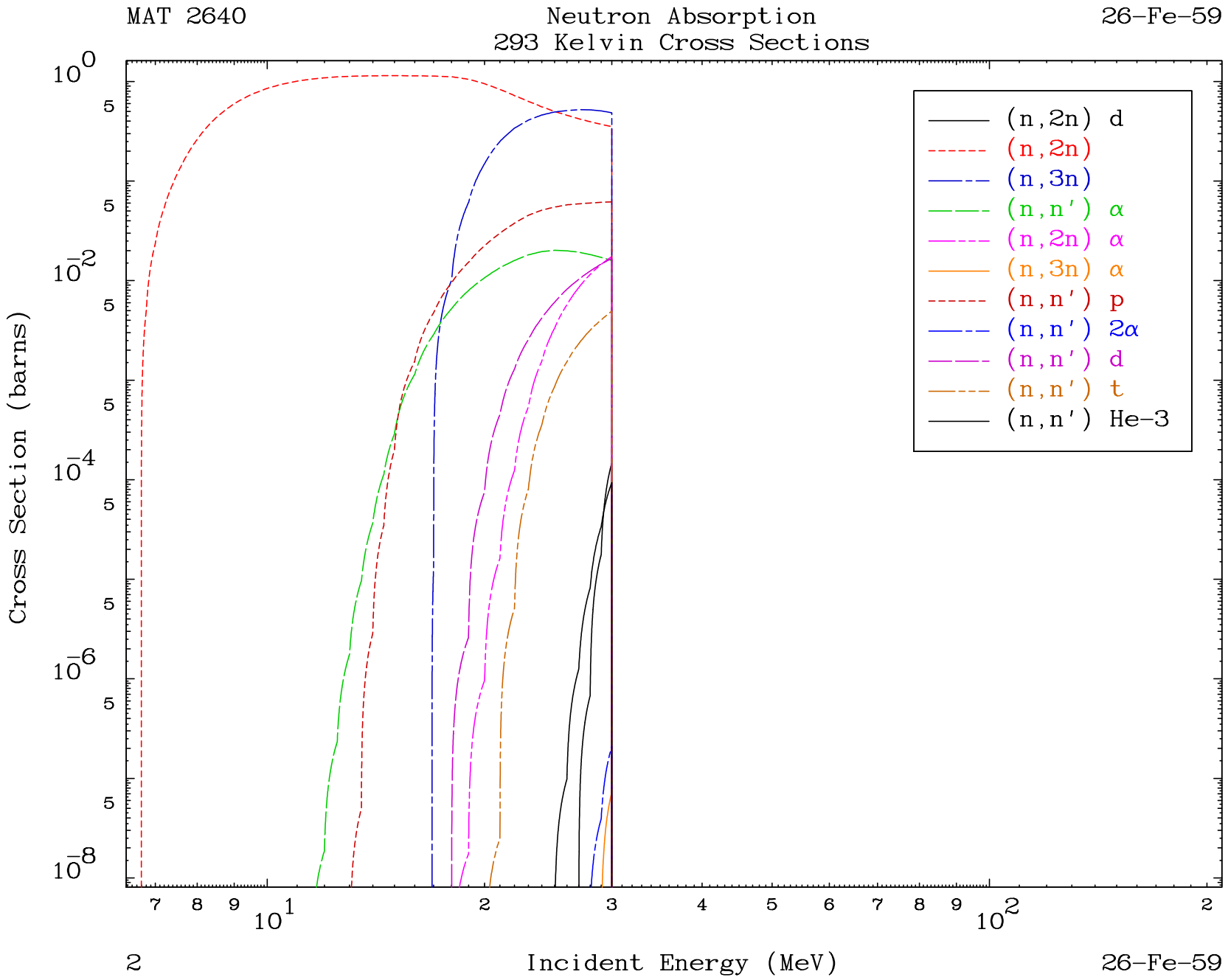
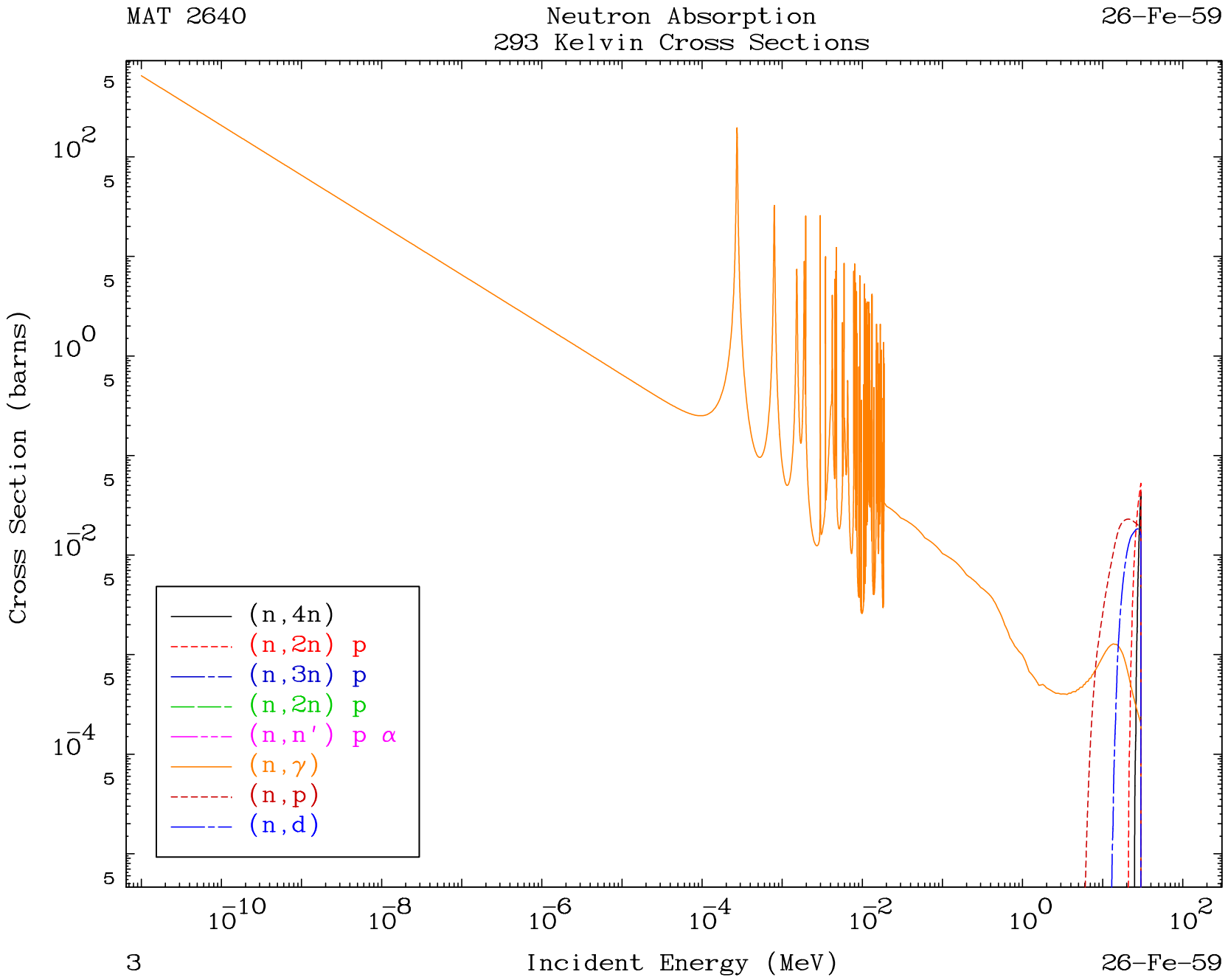
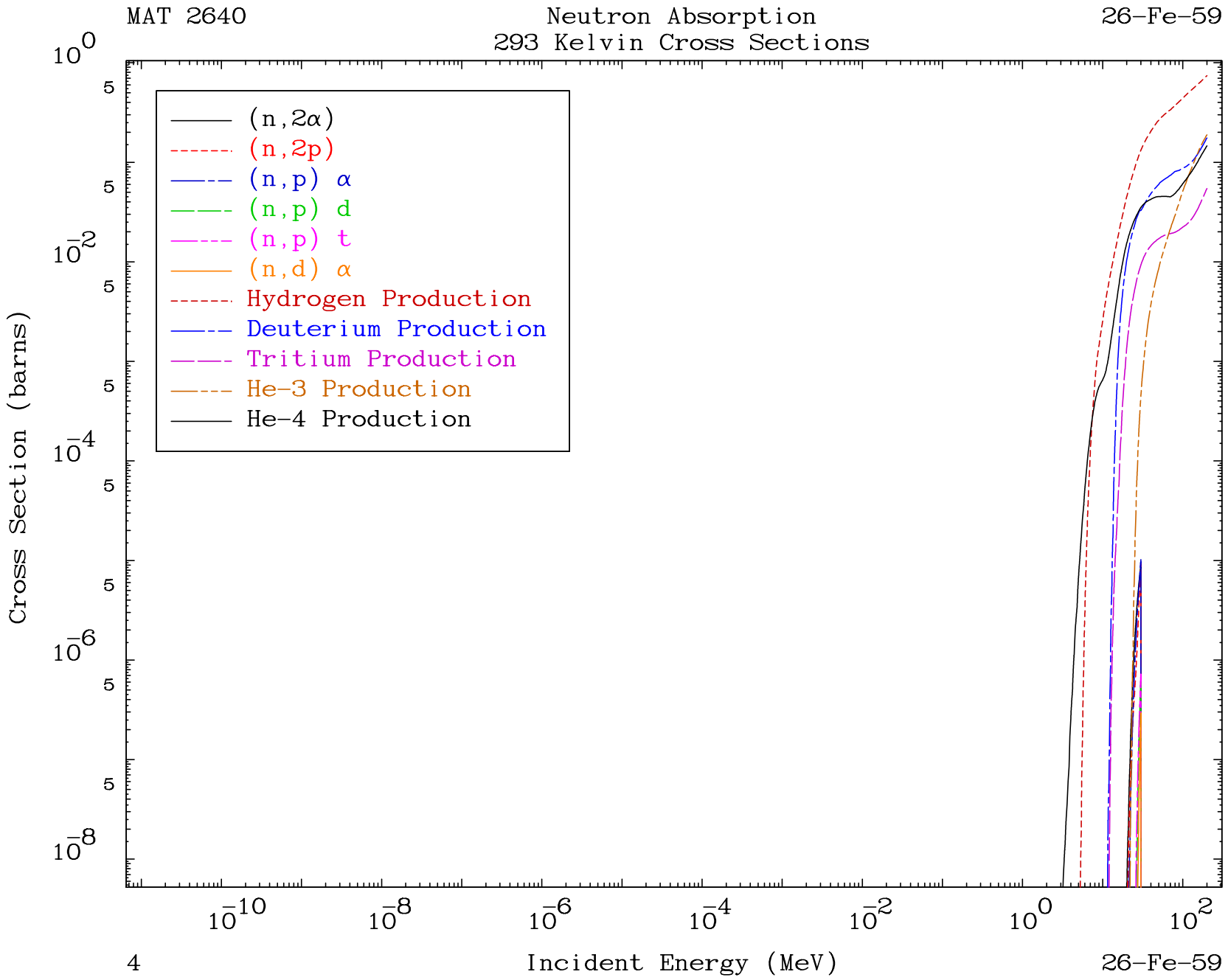
Program EVALPLOT
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

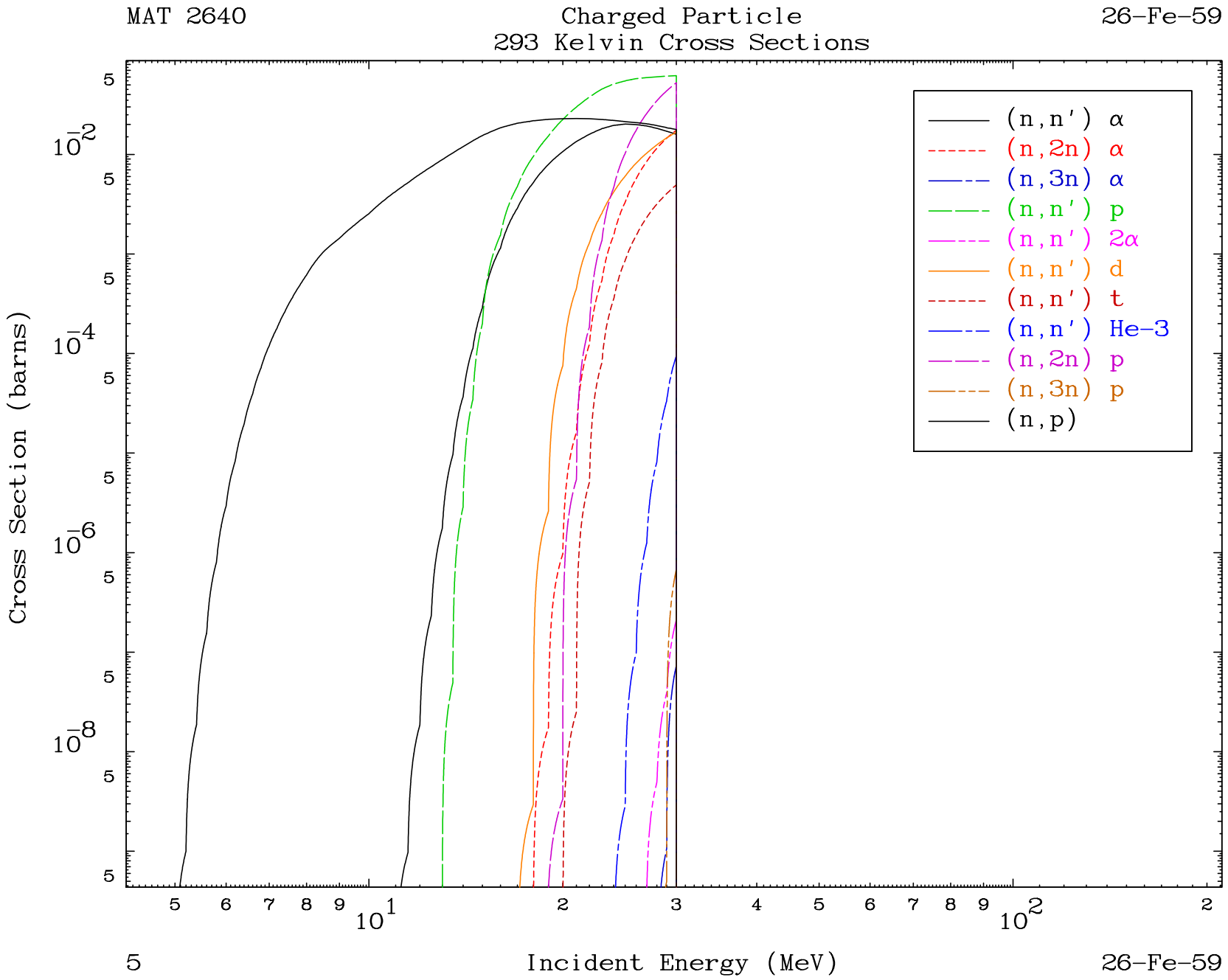
Press Mouse Button to Start

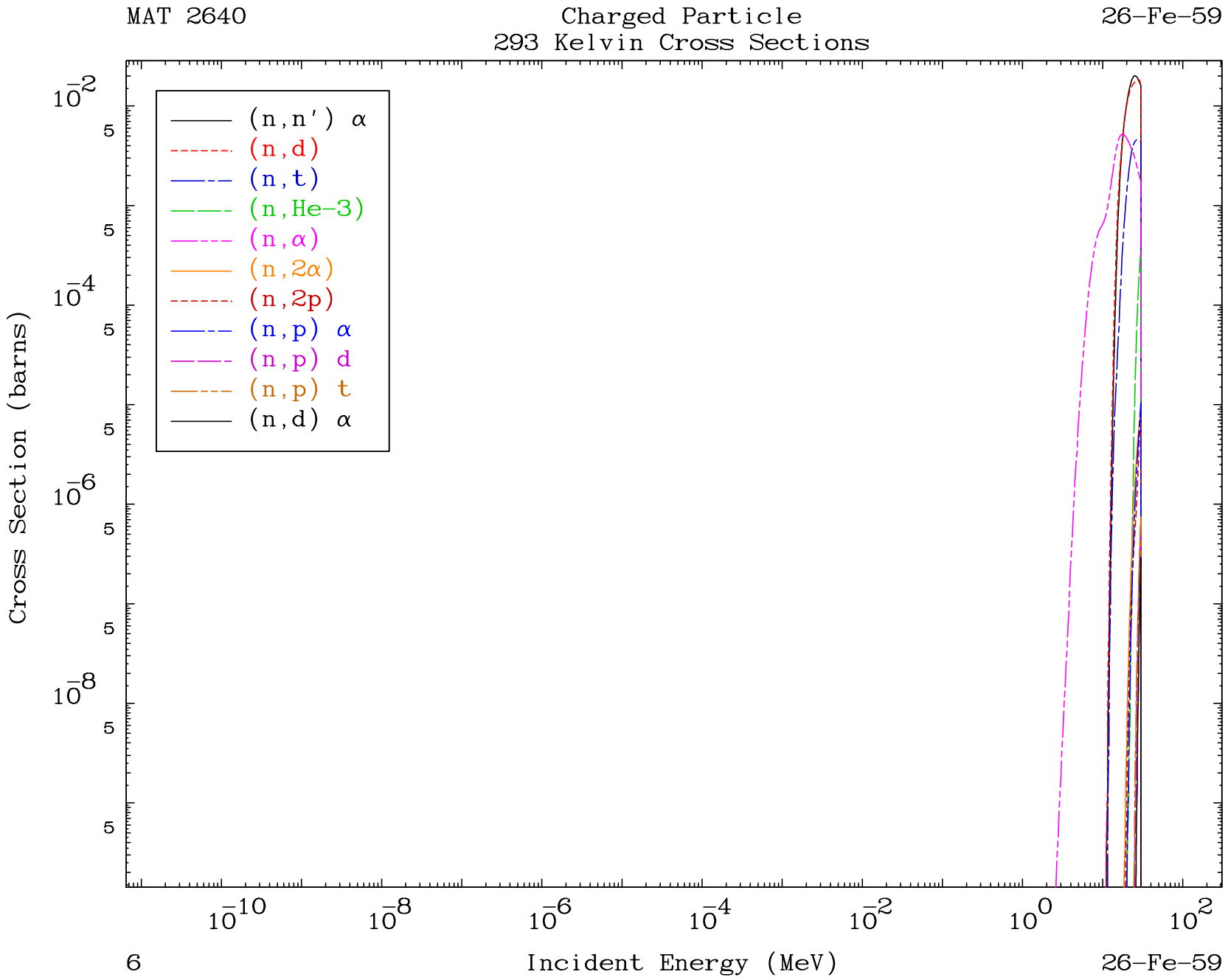

MAT 2640
Neutron Major
293 Kelvin Cross Sections
26-Fe-59
Cross Section (barns)
Incident Energy (MeV)
Total
Elastic
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)
1
26-Fe-59

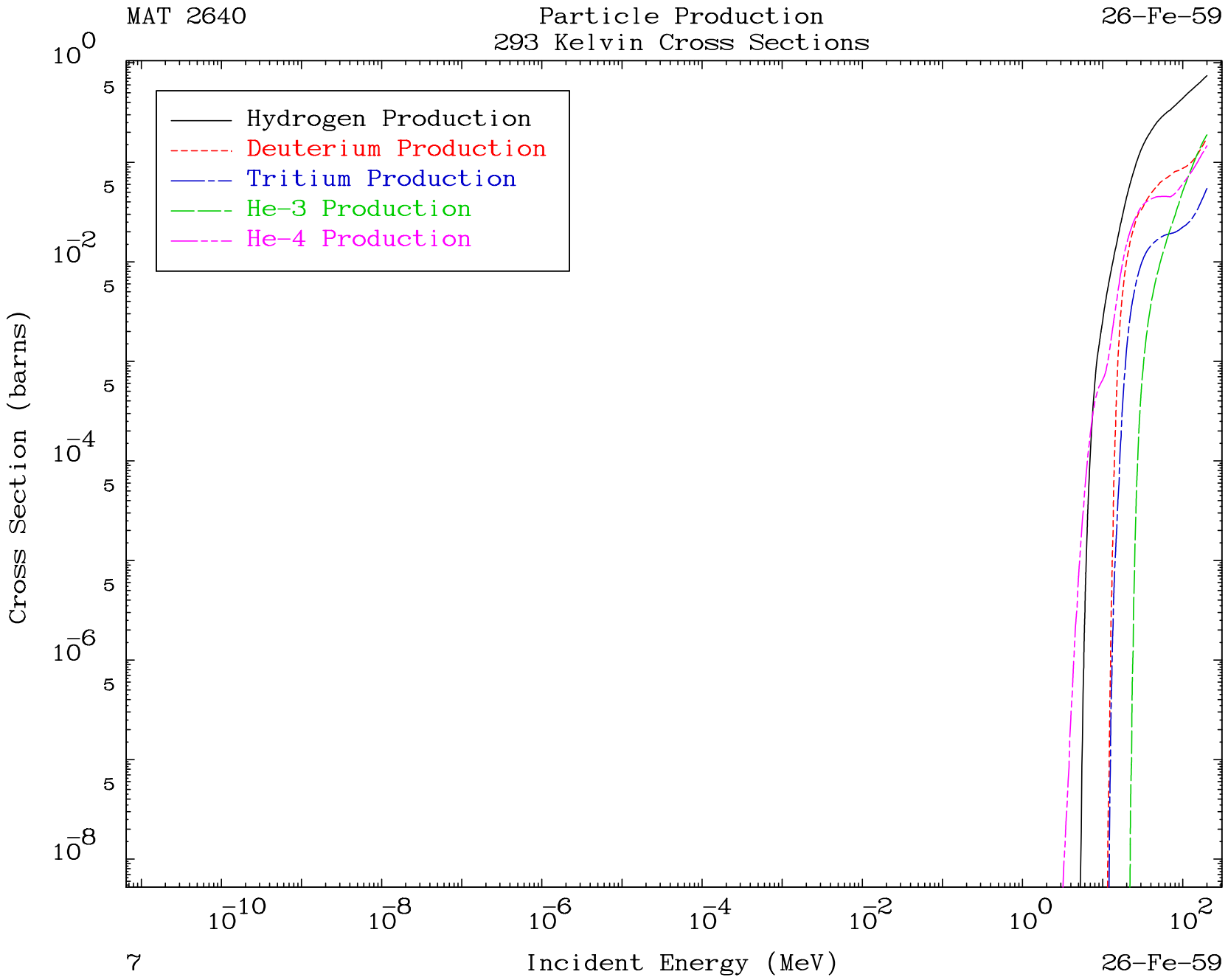

MAT 2640
Neutron Absorption
293 Kelvin Cross Sections
26-Fe-59
Cross Section (barns)
Incident Energy (MeV)
(n,2n) d
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
(n,n') He-3

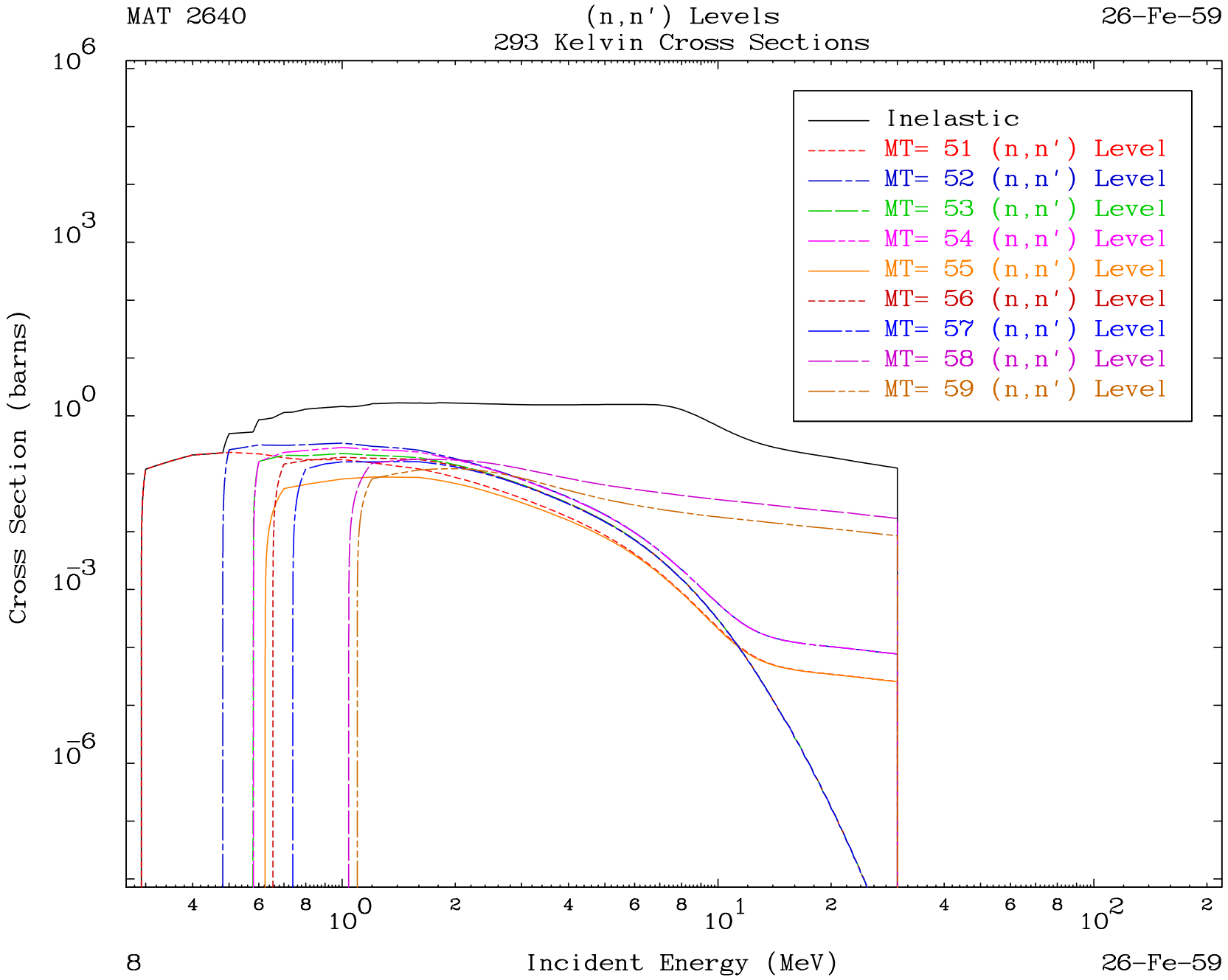

MAT 2640
Neutron Absorption
293 Kelvin Cross Sections
26-Fe-59
Cross Section (barns)
Incident Energy (MeV)
(n,4n)
(n,2n) p
(n,3n) p
(n,2n) p
(n,n') p α
(n,γ)
(n,p)
(n,d)
3
26-Fe-59

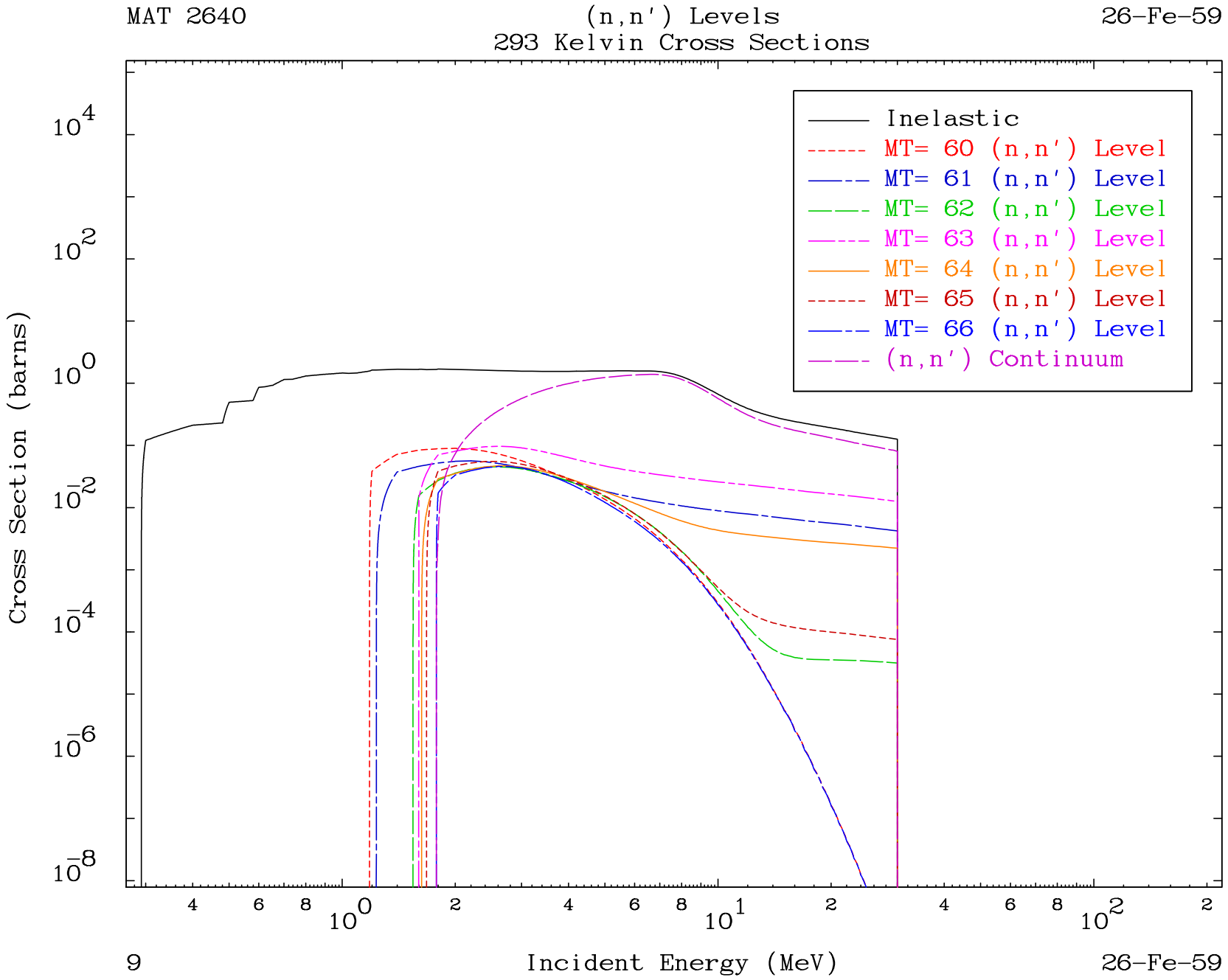

MAT 2640
Neutron Absorption
293 Kelvin Cross Sections
26-Fe-59
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production
Cross Section (barns)
Incident Energy (MeV)
4
26-Fe-59

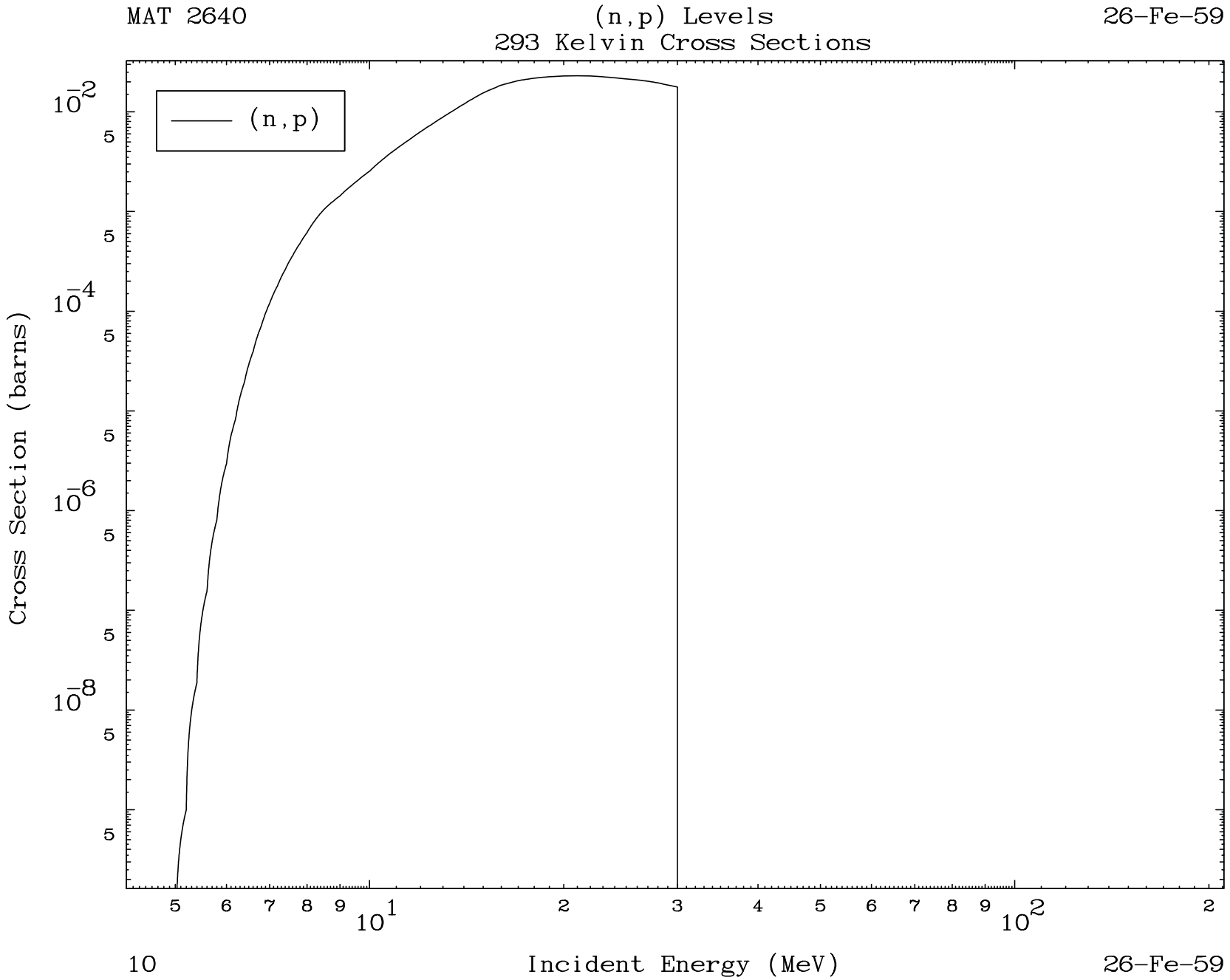

MAT 2640
Charged Particle
293 Kelvin Cross Sections
26-Fe-59
Cross Section (barns)
Incident Energy (MeV)
26-Fe-59
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
(n,3n) p
(n,p)

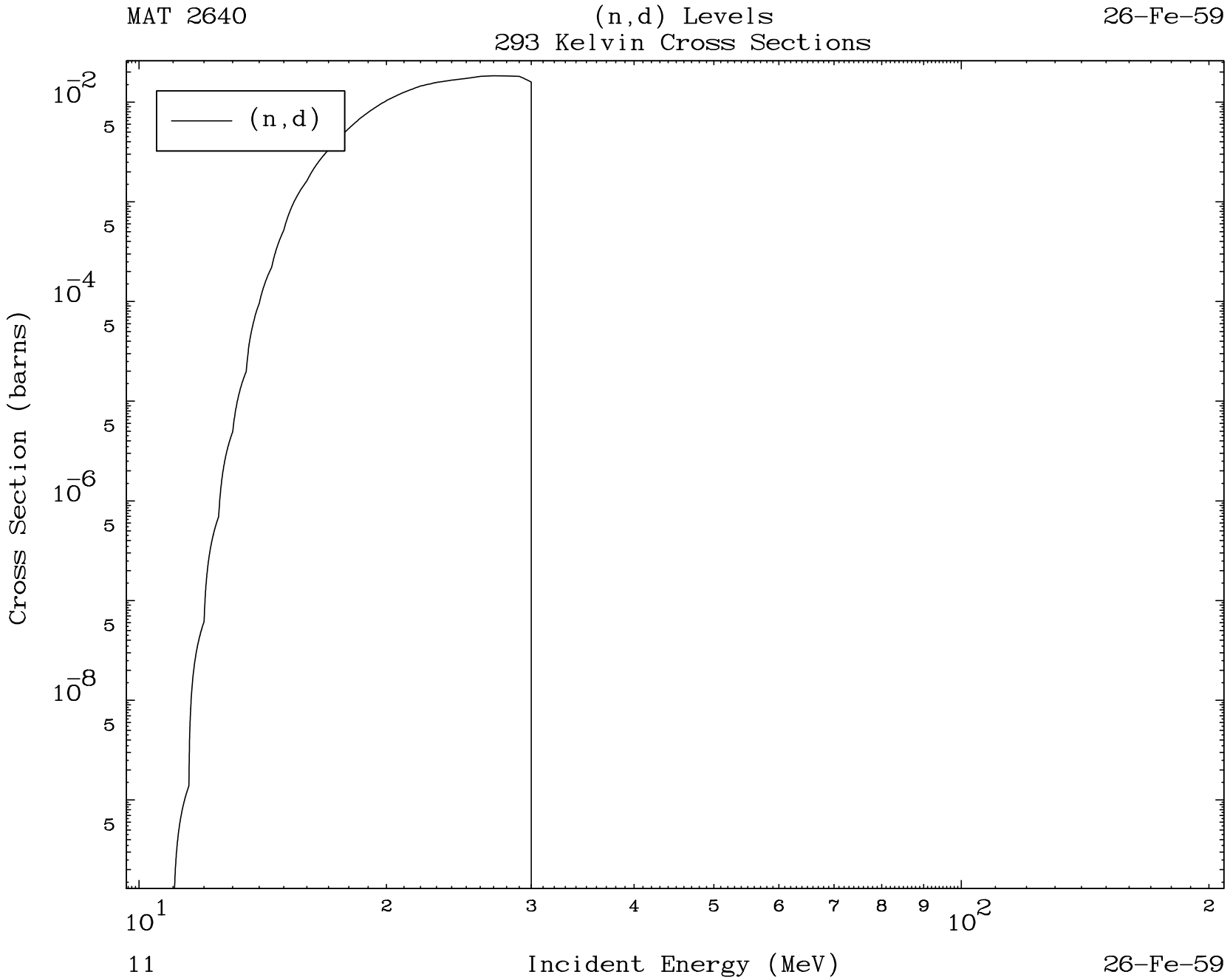

MAT 2640
Charged Particle
293 Kelvin Cross Sections
26-Fe-59
(n,n') α
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
6
26-Fe-59

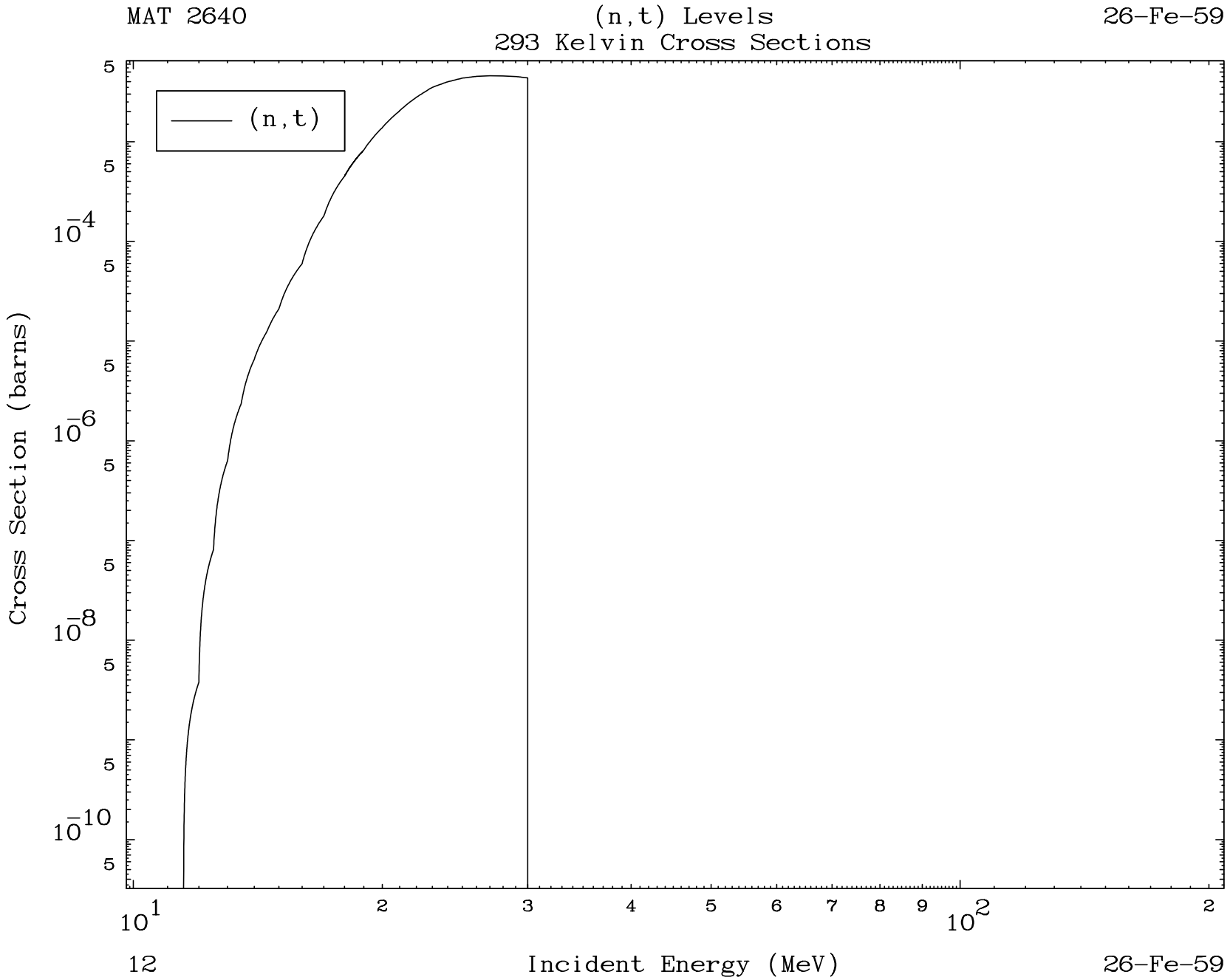

MAT 2640
Particle Production
293 Kelvin Cross Sections
26-Fe-59
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production
Cross Section (barns)
Incident Energy (MeV)
7
26-Fe-59

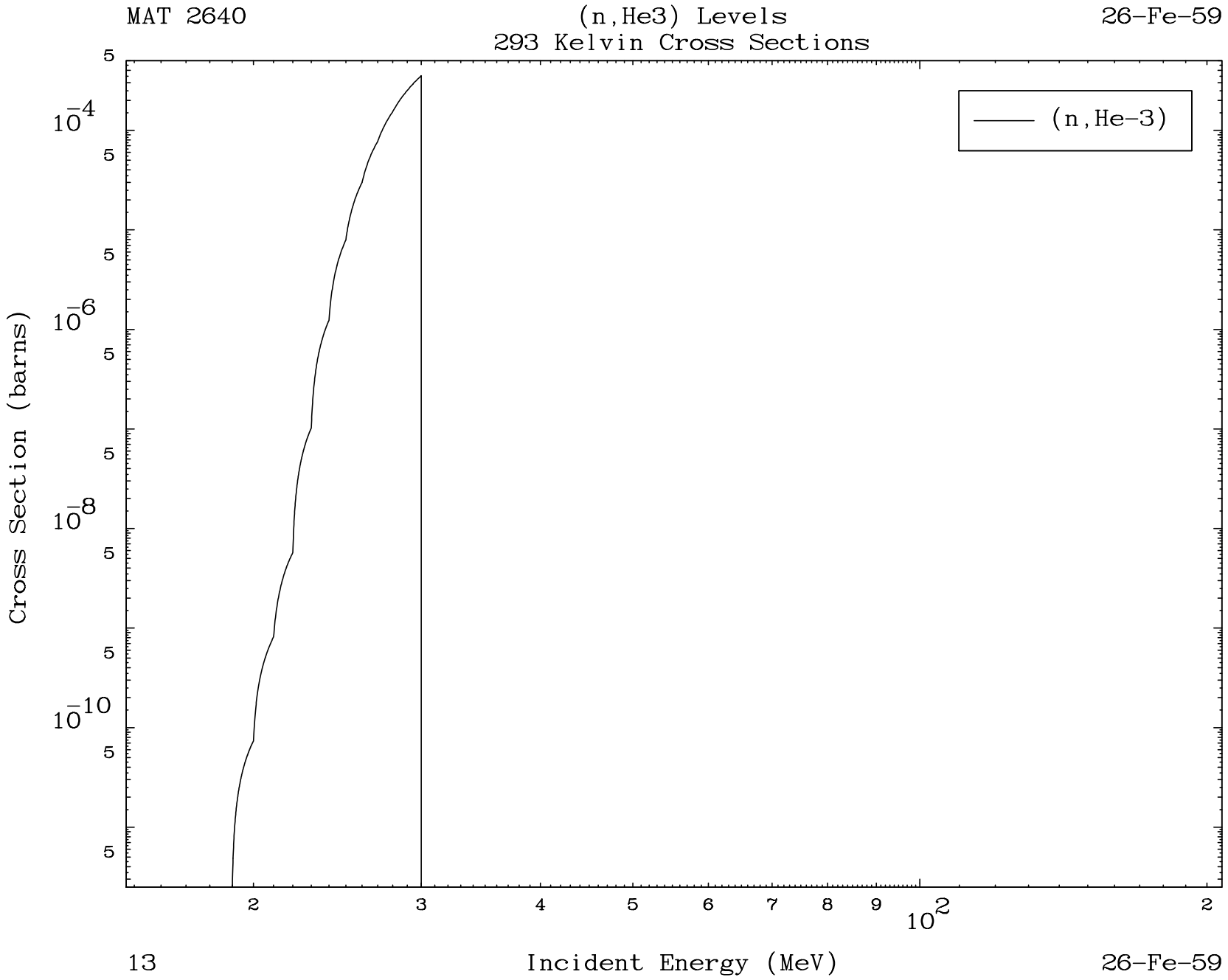

MAT 2640
(n,n') Levels
293 Kelvin Cross Sections
26-Fe-59
Inelastic
MT= 51 (n,n') Level
MT= 52 (n,n') Level
MT= 53 (n,n') Level
MT= 54 (n,n') Level
MT= 55 (n,n') Level
MT= 56 (n,n') Level
MT= 57 (n,n') Level
MT= 58 (n,n') Level
MT= 59 (n,n') Level
Cross Section (barns)
Incident Energy (MeV)
8
26-Fe-59

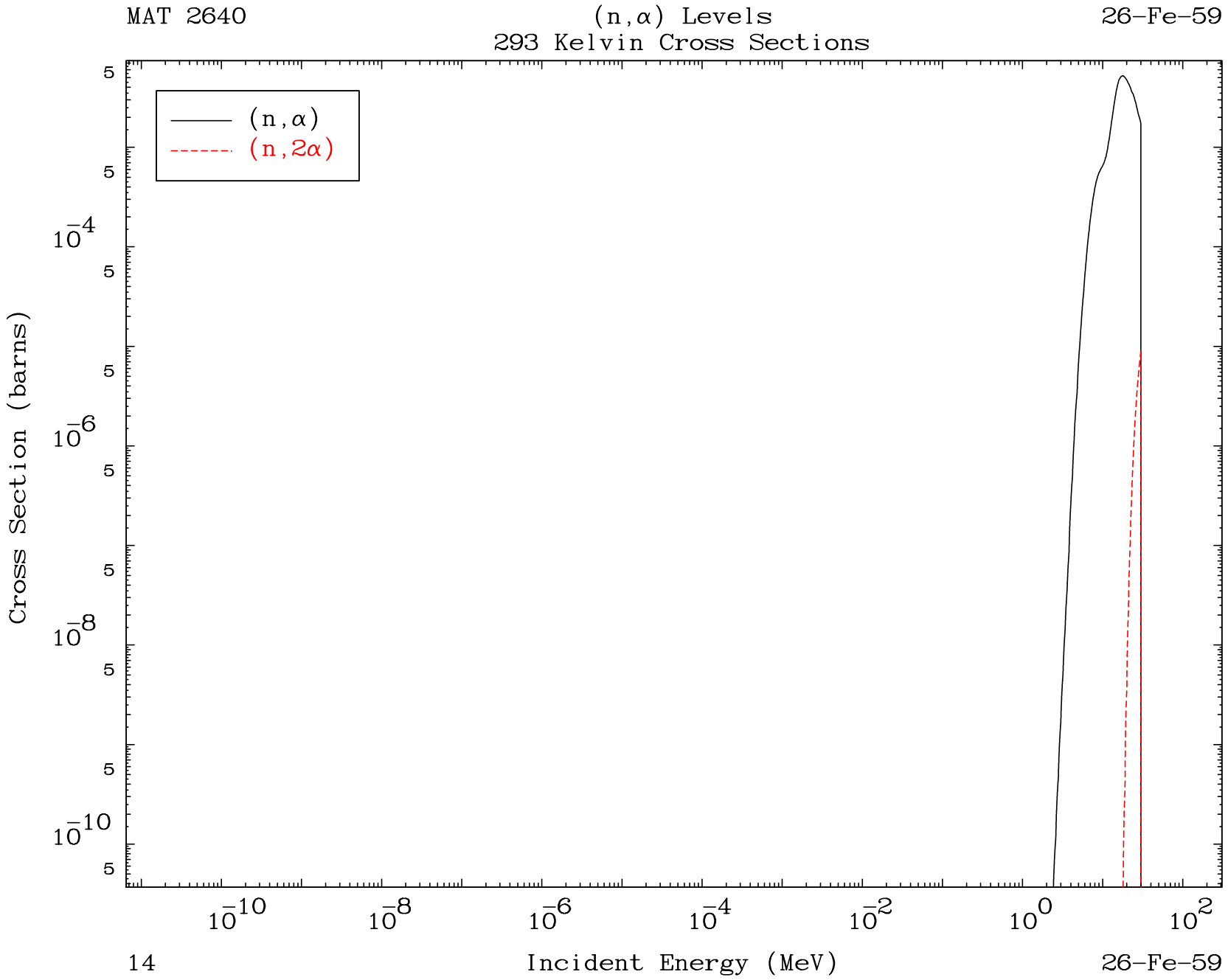

MAT 2640
(n,n') Levels
293 Kelvin Cross Sections
26-Fe-59
Inelastic
MT= 60 (n,n') Level
MT= 61 (n,n') Level
MT= 62 (n,n') Level
MT= 63 (n,n') Level
MT= 64 (n,n') Level
MT= 65 (n,n') Level
MT= 66 (n,n') Level
(n,n') Continuum
Cross Section (barns)
Incident Energy (MeV)
9
26-Fe-59

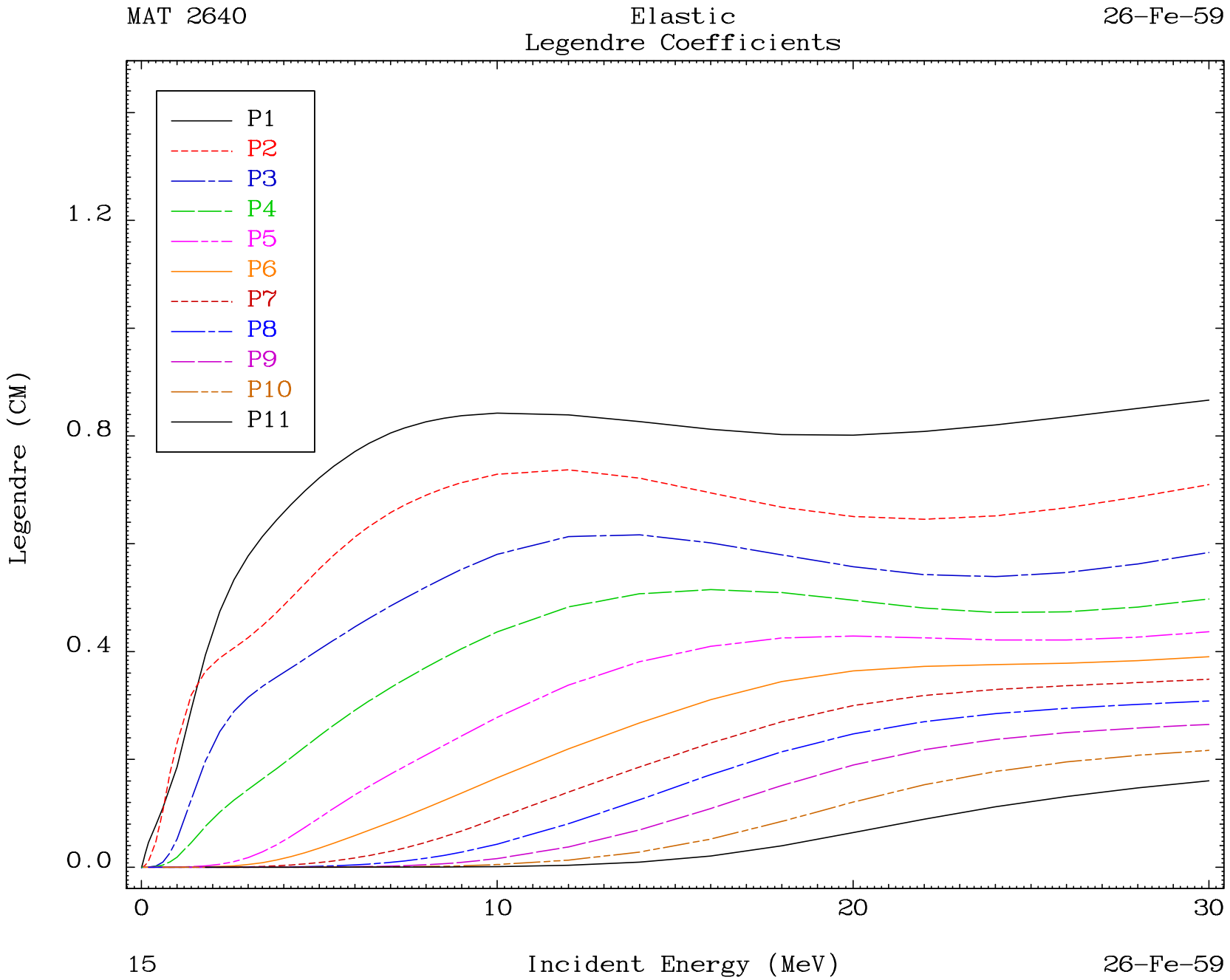

MAT 2640
(n,p) Levels
26-Fe-59
293 Kelvin Cross Sections
(n,p)
Cross Section (barns)
10^-2
10^-4
10^-6
10^-8
5
10^1
2
3
4
10^2
Incident Energy (MeV)
10
26-Fe-59

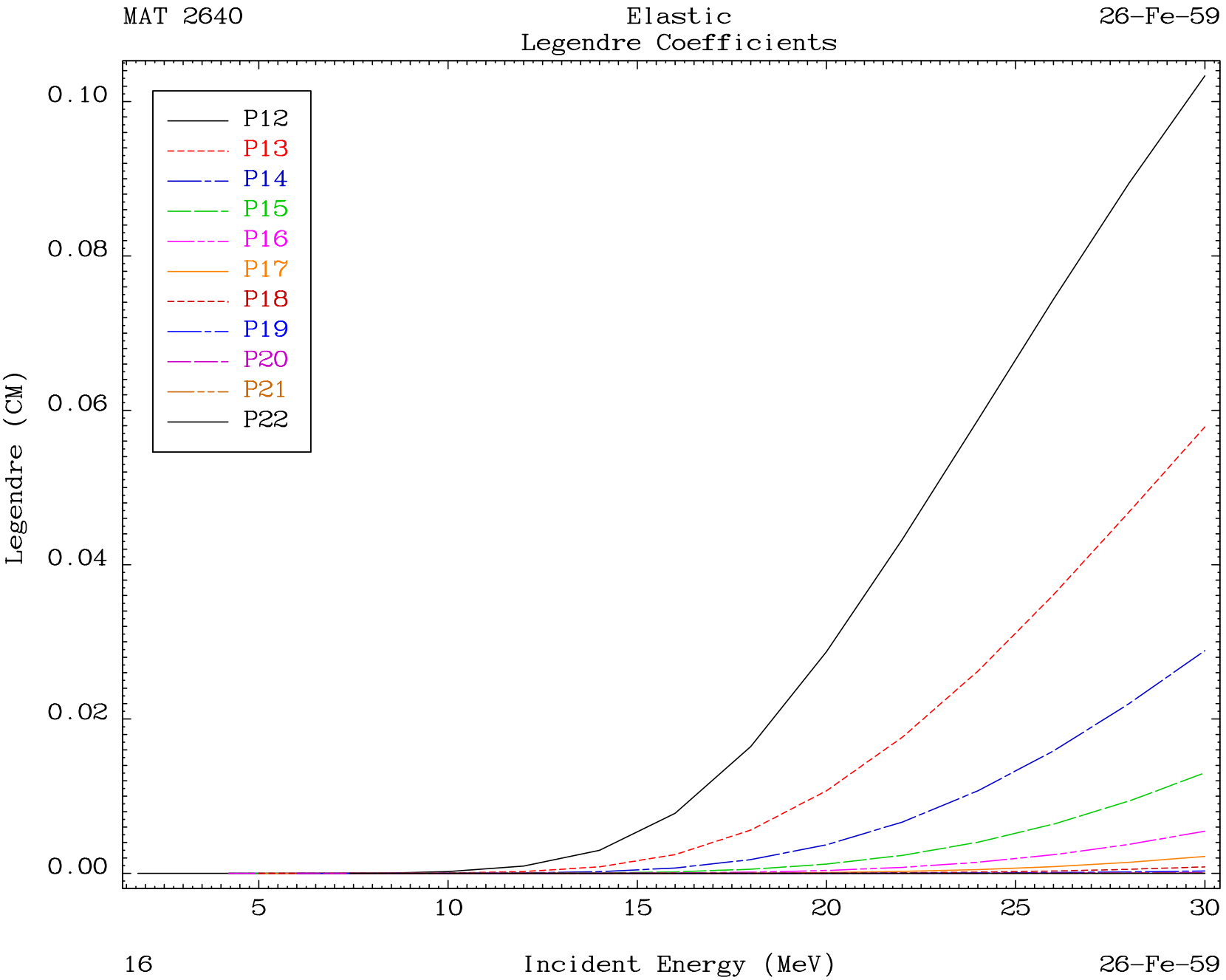

MAT 2640
(n,d) Levels
26-Fe-59
293 Kelvin Cross Sections
(n,d)
Cross Section (barns)
Incident Energy (MeV)
11
26-Fe-59

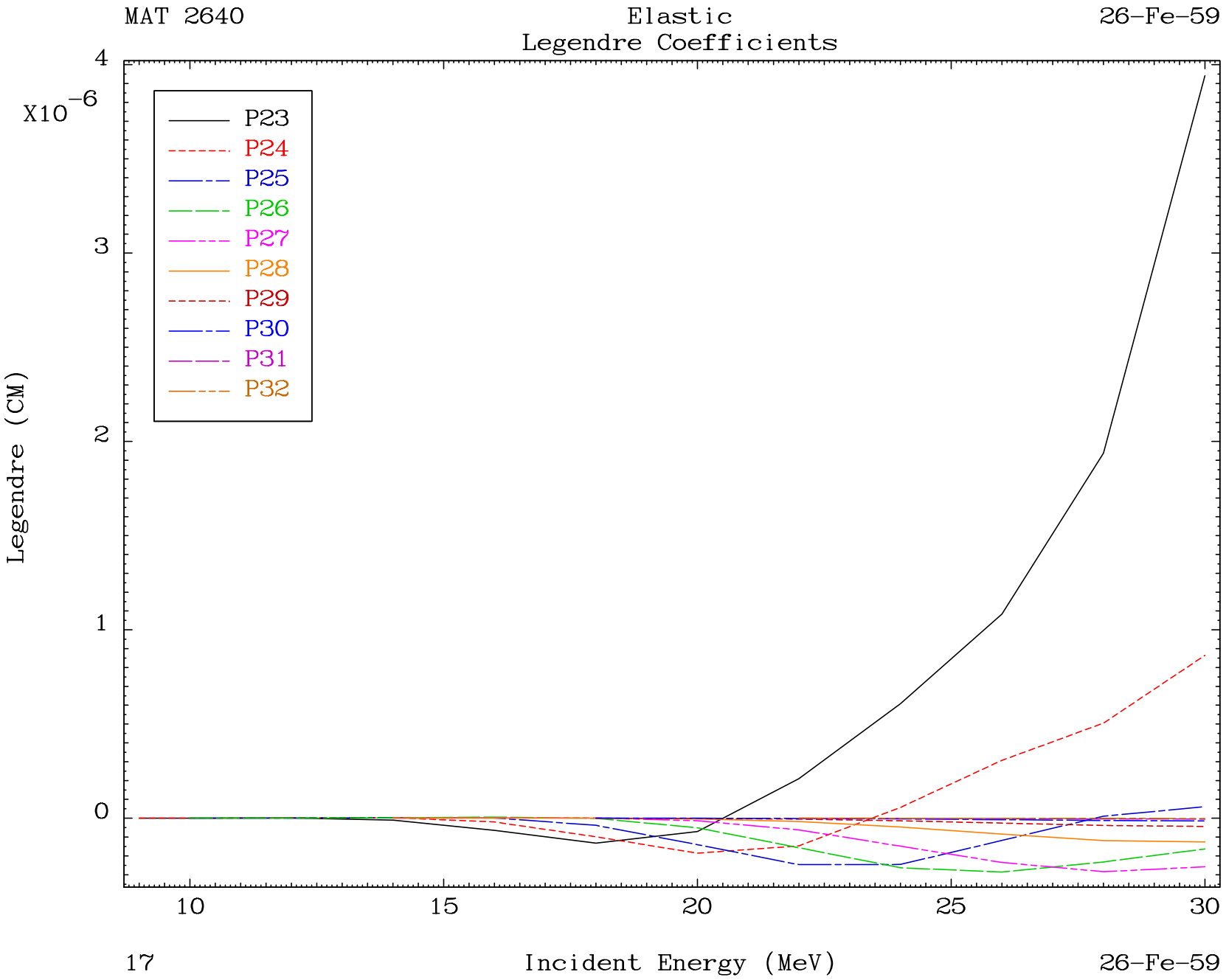

MAT 2640
(n,t) Levels
26-Fe-59
293 Kelvin Cross Sections
(n,t)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^1
10^2
Incident Energy (MeV)
12
26-Fe-59

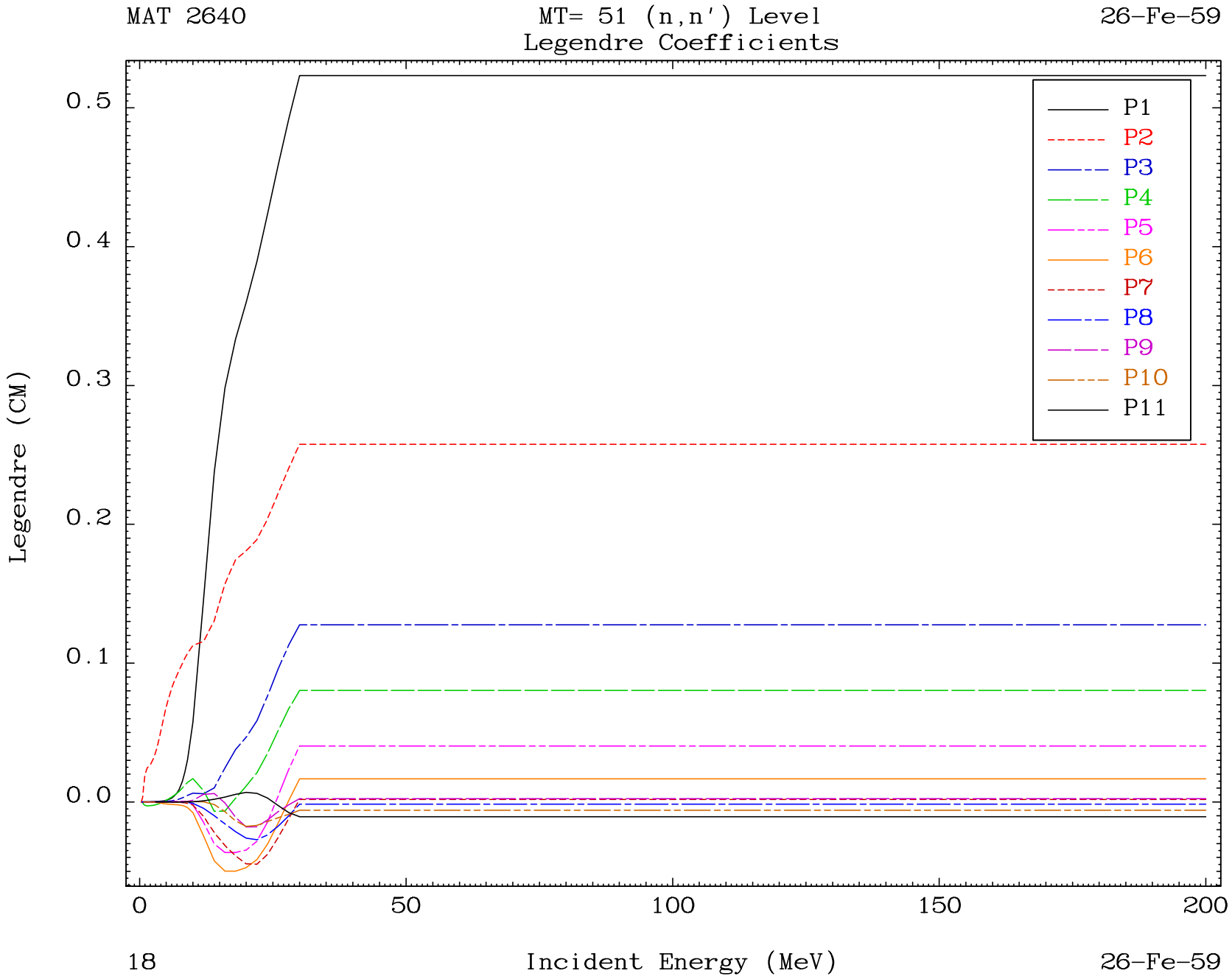

MAT 2640
(n,He3) Levels
26-Fe-59
293 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
2
3
4
5
6
7
8
9
10^2
2
13
Incident Energy (MeV)
26-Fe-59

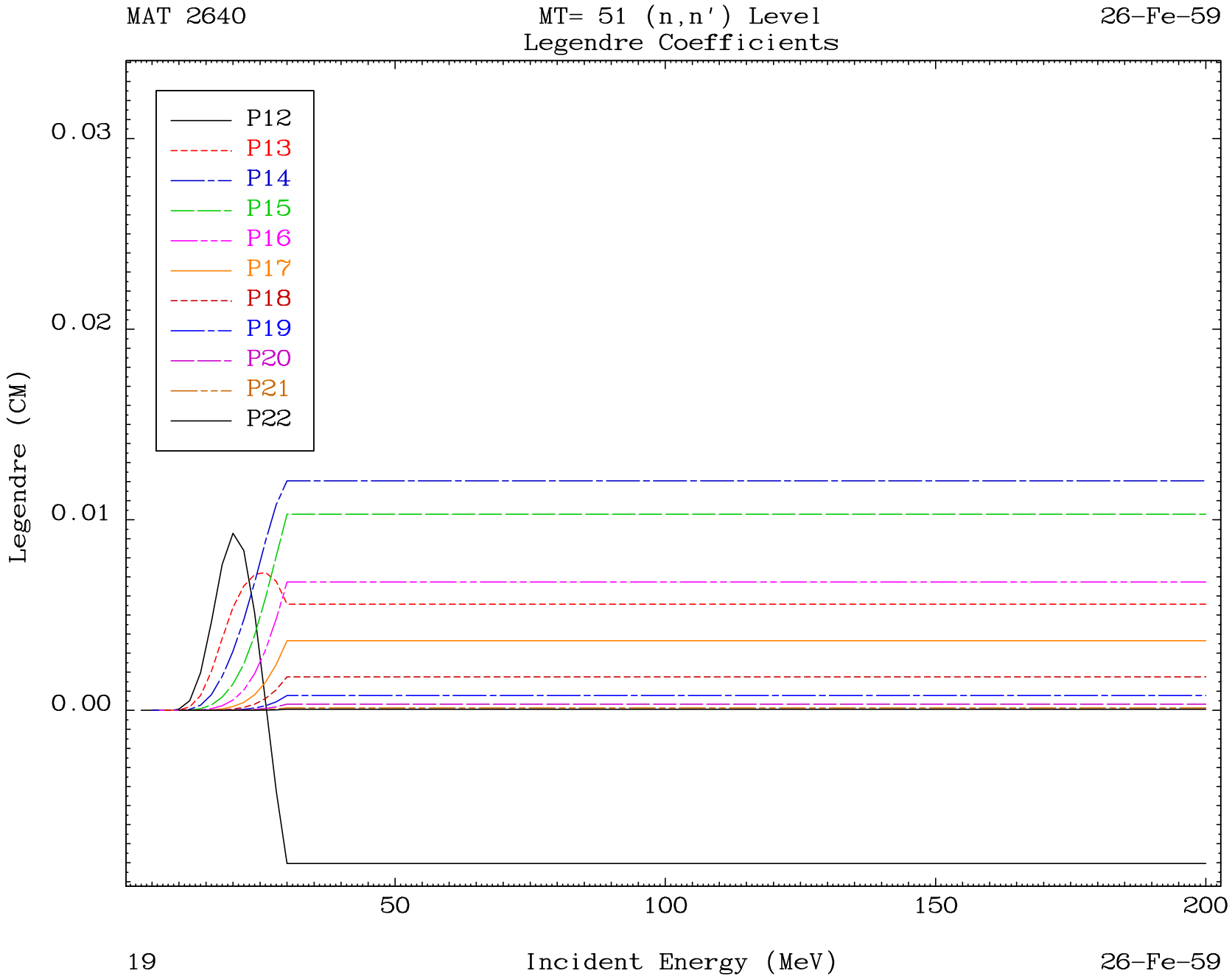

MAT 2640
(n,α) Levels
26-Fe-59
293 Kelvin Cross Sections
(n,α)
(n,2α)
Cross Section (barns)
Incident Energy (MeV)
14
26-Fe-59

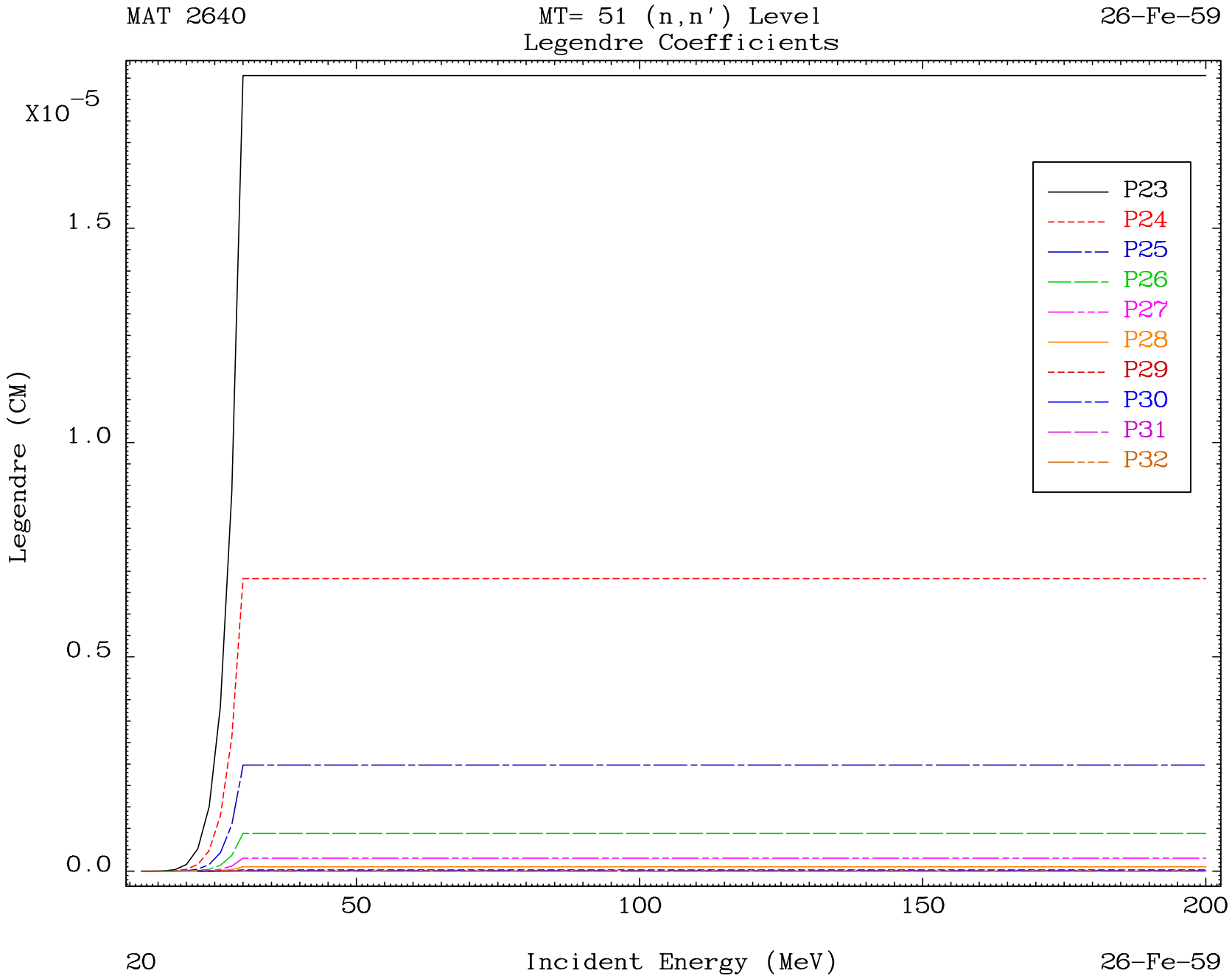

MAT 2640
Elastic
Legendre Coefficients
26-Fe-59
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11
Legendre (CM)
1.2
0.8
0.4
0.0
0
10
20
30
15
Incident Energy (MeV)
26-Fe-59

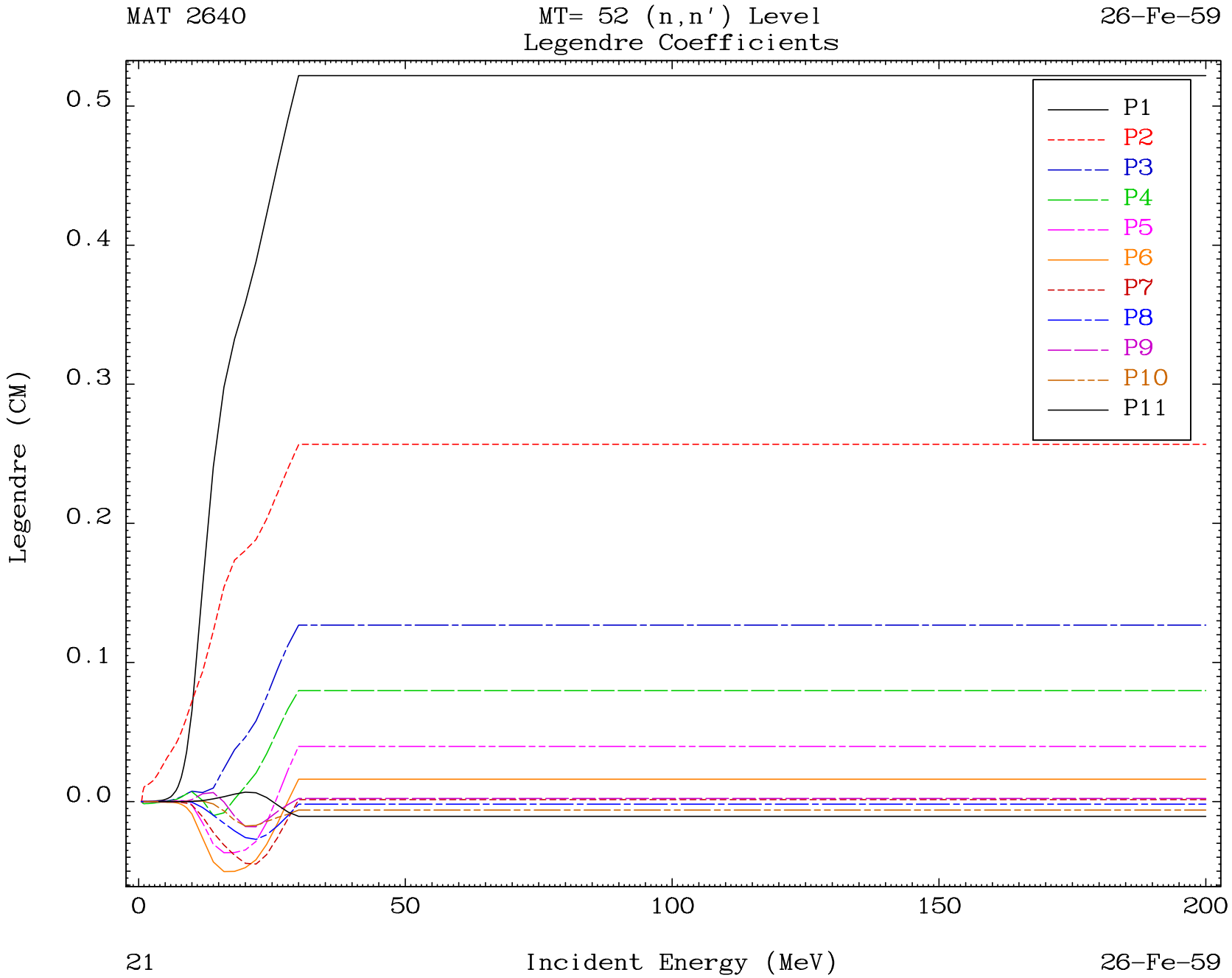

MAT 2640
Elastic
Legendre Coefficients
26-Fe-59
P12
P13
P14
P15
P16
P17
P18
P19
P20
P21
P22
Legendre (CM)
0.10
0.08
0.06
0.04
0.02
0.00
5
10
15
20
25
30
16
Incident Energy (MeV)
26-Fe-59

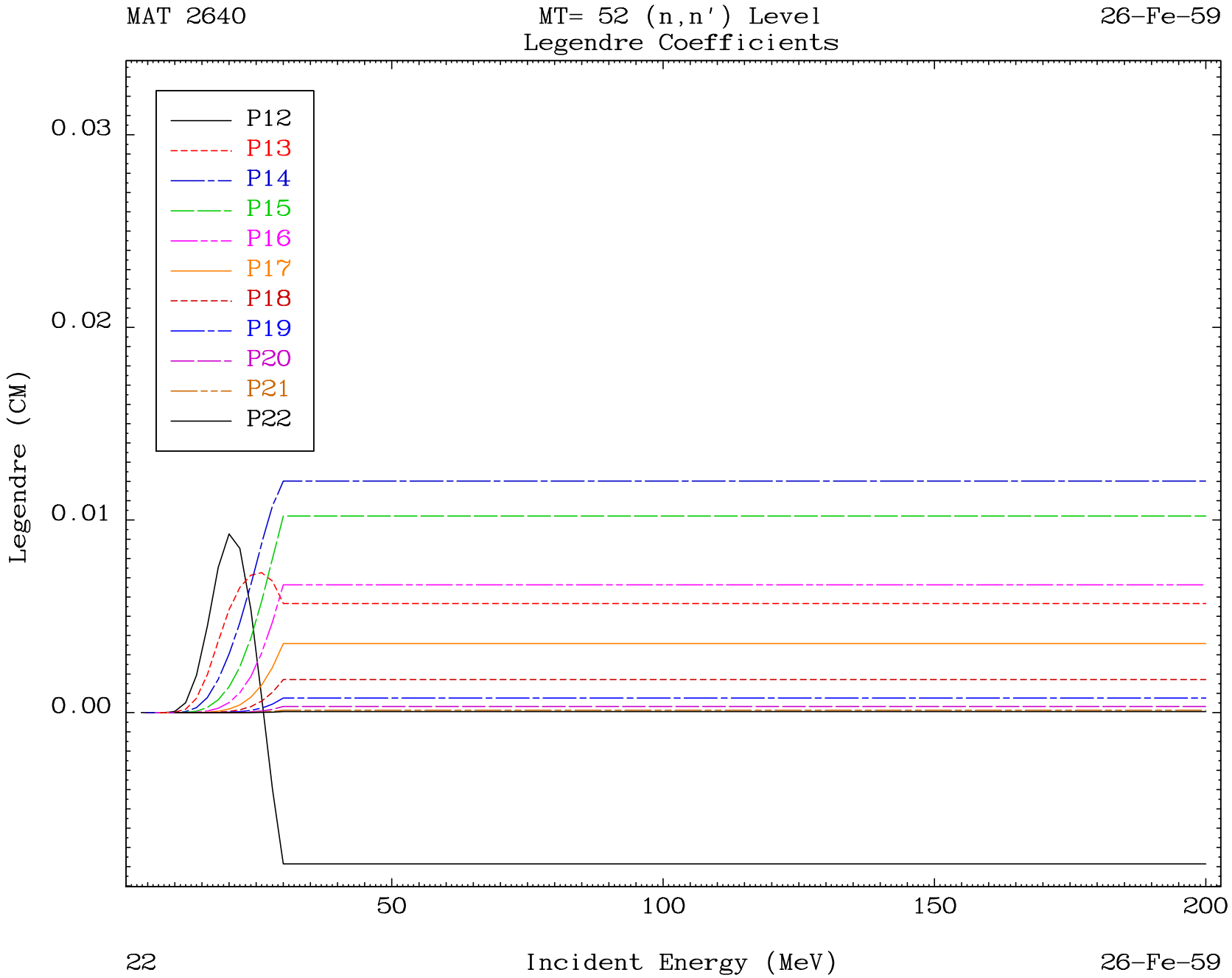

MAT 2640
Elastic
Legendre Coefficients
26-Fe-59
X10 −6
4
3
2
1
0
Legendre (CM)
P23
P24
P25
P26
P27
P28
P29
P30
P31
P32
10
15
20
25
30
17
Incident Energy (MeV)
26-Fe-59

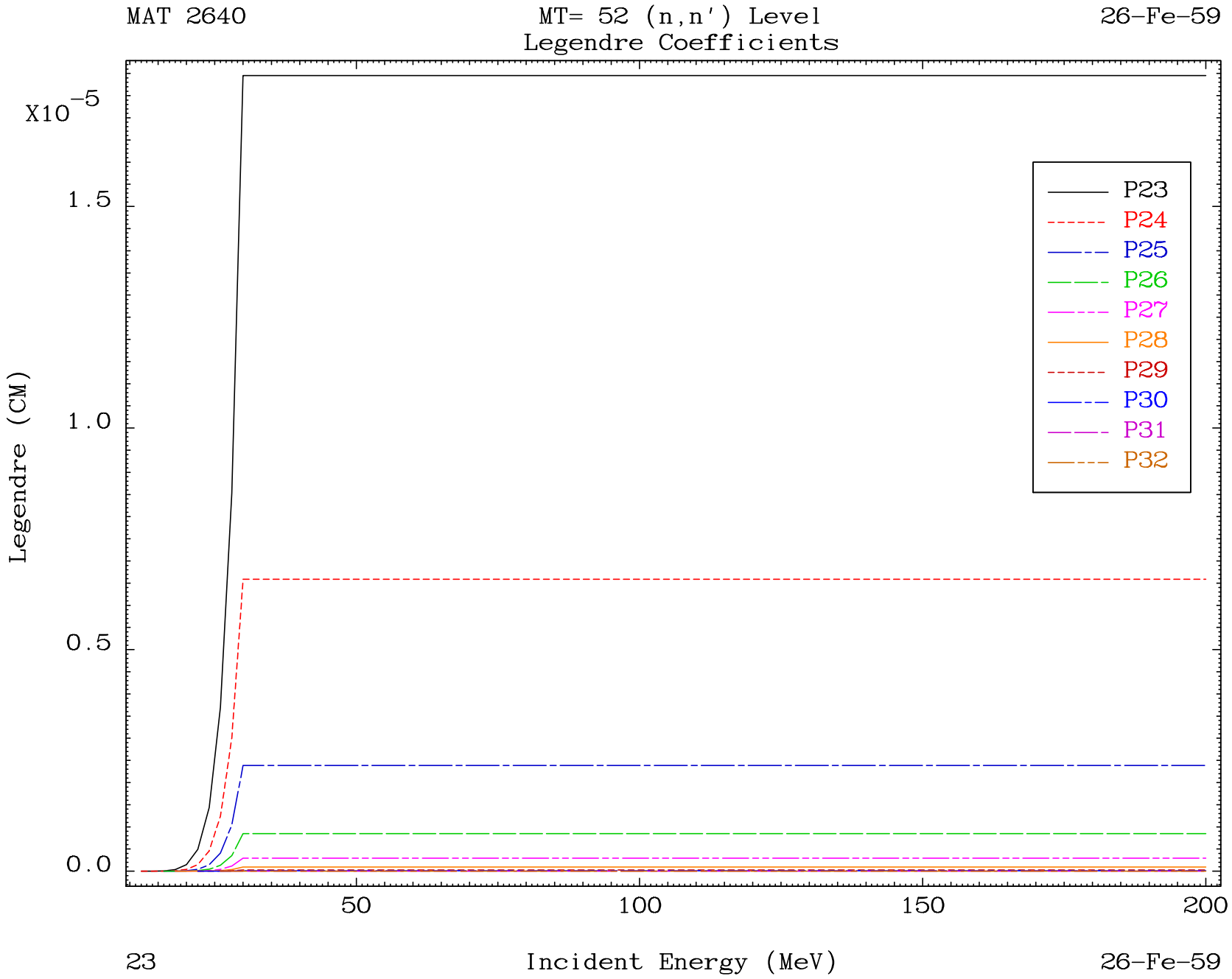

MAT 2640
MT= 51 (n,n') Level
Legendre Coefficients
26-Fe-59
Legendre (CM)
0.5
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11
18
Incident Energy (MeV)
26-Fe-59

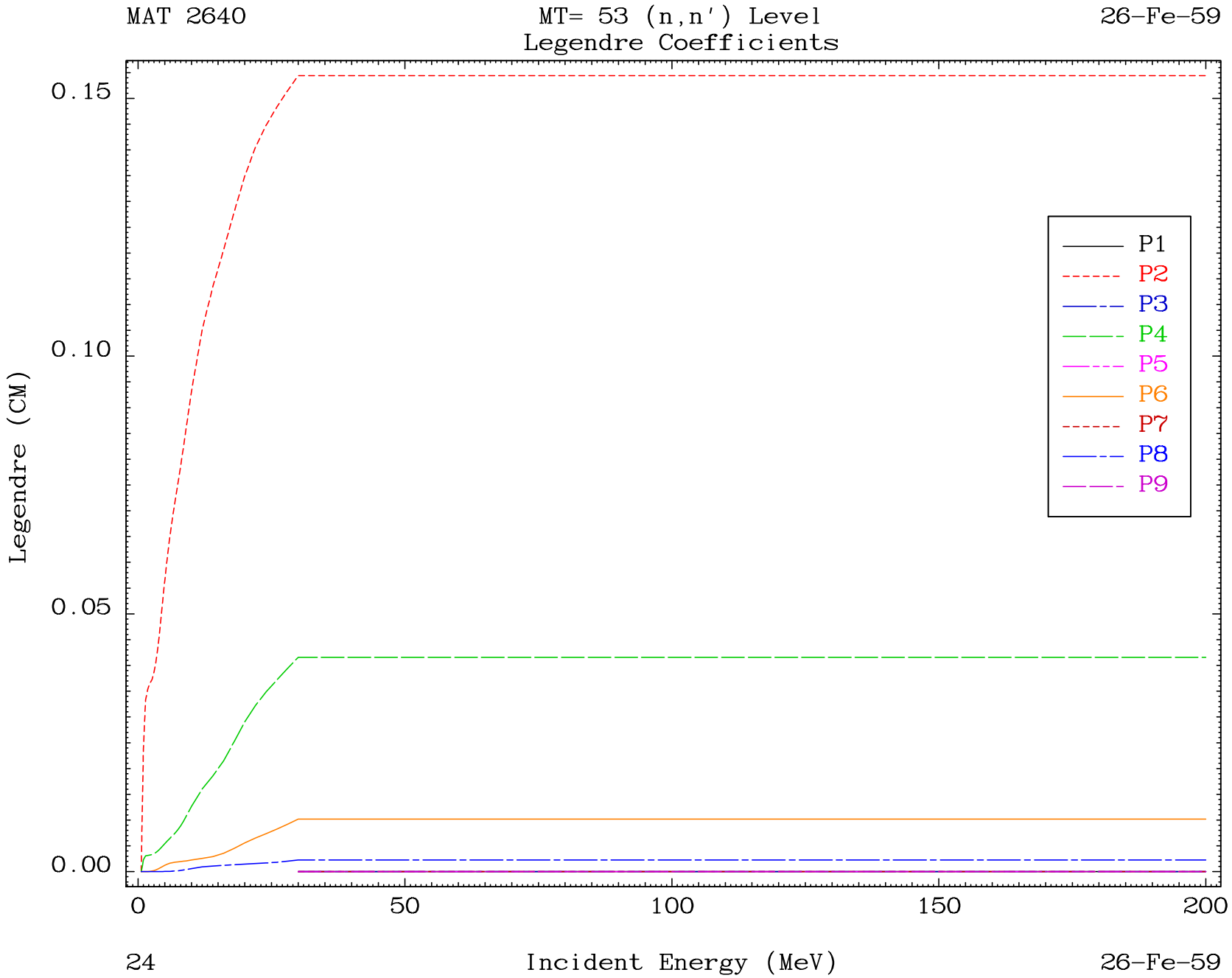

MAT 2640
MT= 51 (n,n') Level
Legendre Coefficients
26-Fe-59
P12
P13
P14
P15
P16
P17
P18
P19
P20
P21
P22
0.03
0.02
0.01
0.00
Legendre (CM)
50
100
150
200
19
Incident Energy (MeV)
26-Fe-59

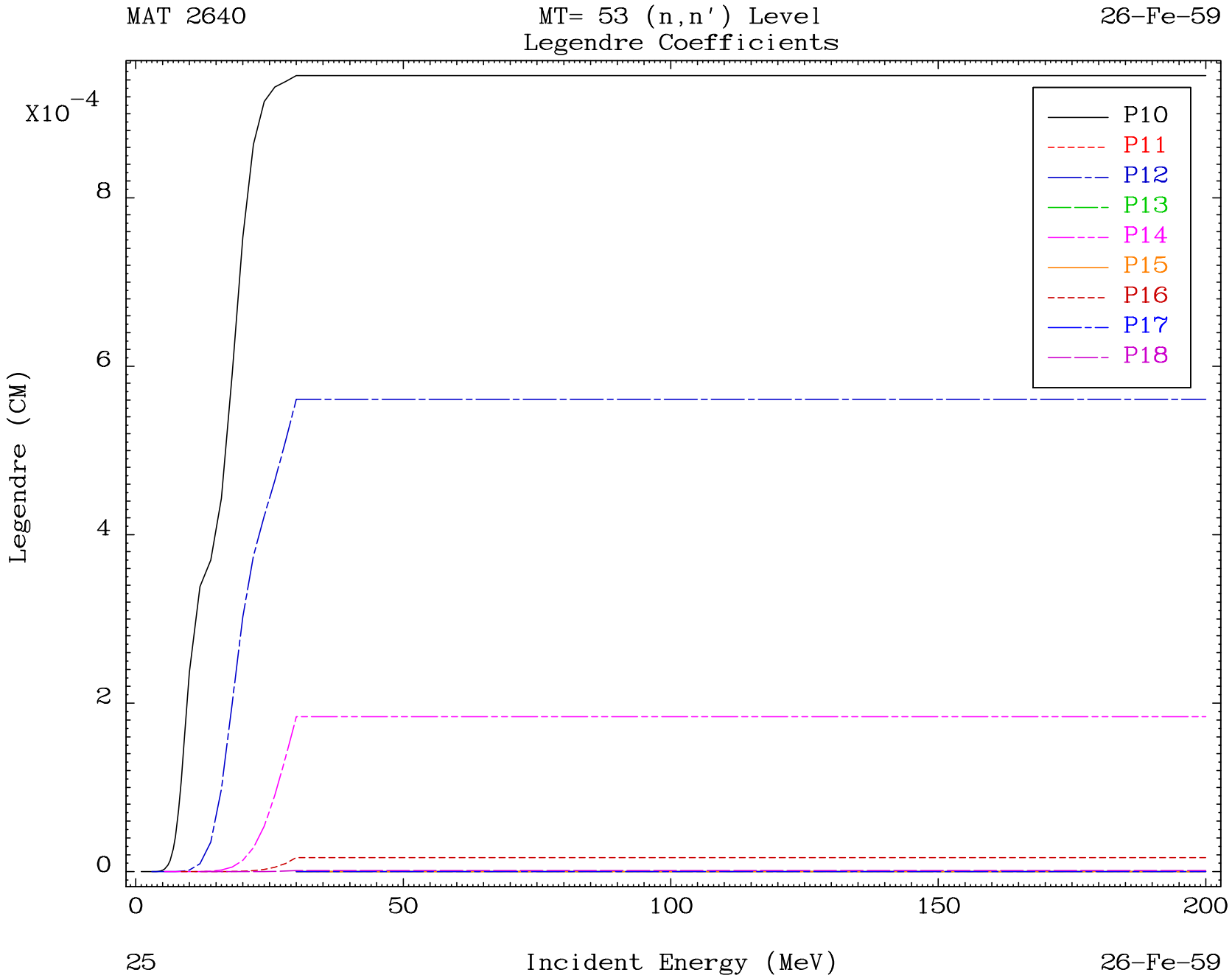

MAT 2640
MT= 51 (n,n') Level
Legendre Coefficients
26-Fe-59
X10-5
1.5
1.0
0.5
0.0
Legendre (CM)
P23
P24
P25
P26
P27
P28
P29
P30
P31
P32
50
100
150
200
20
Incident Energy (MeV)
26-Fe-59

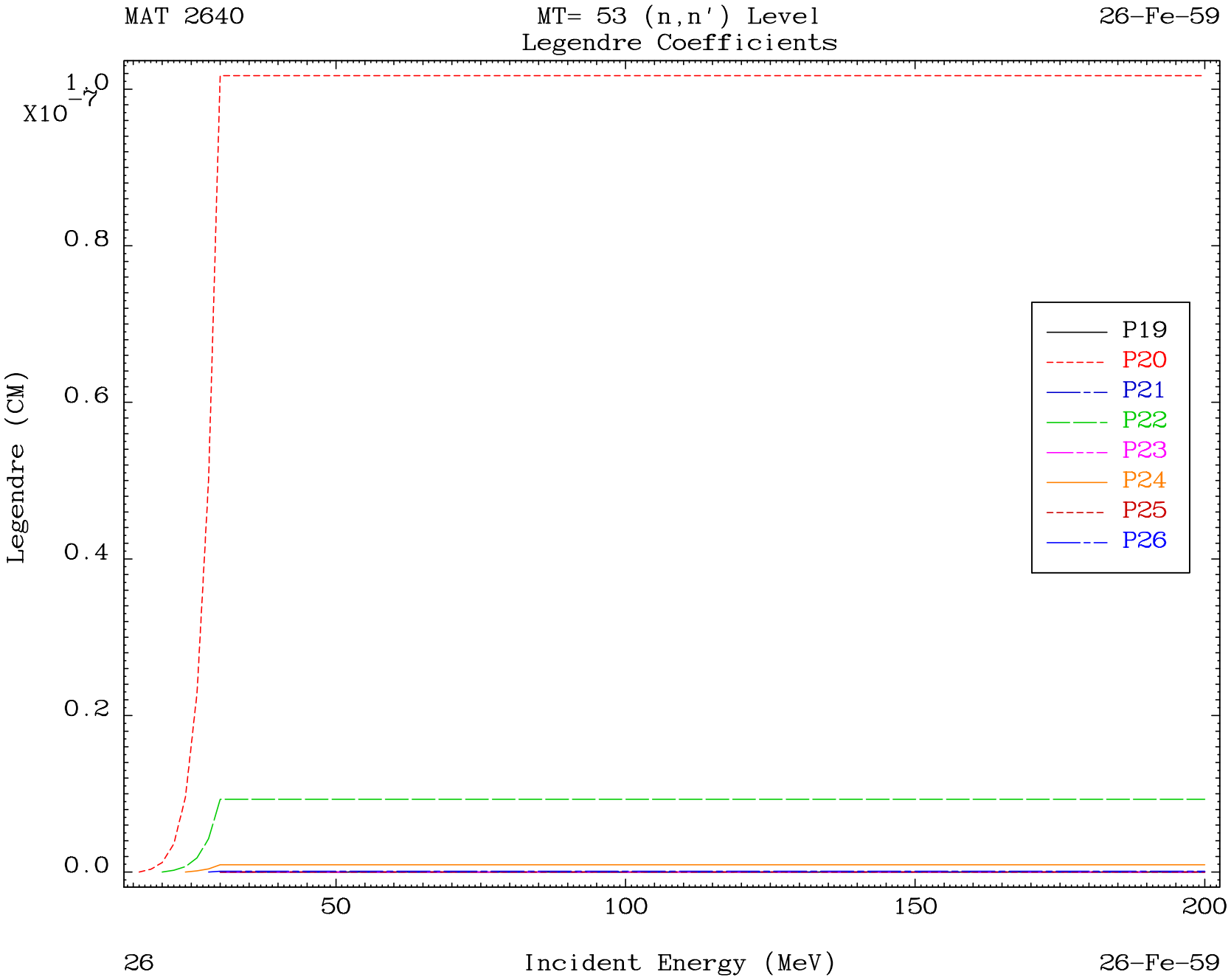

MAT 2640
MT= 52 (n,n') Level
Legendre Coefficients
26-Fe-59
Legendre (CM)
0.5
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11
21
Incident Energy (MeV)
26-Fe-59


MAT 2640
MT= 52 (n,n') Level
Legendre Coefficients
26-Fe-59
P12
P13
P14
P15
P16
P17
P18
P19
P20
P21
P22
0.03
0.02
0.01
0.00
Legendre (CM)
50
100
150
200
22
Incident Energy (MeV)
26-Fe-59


MAT 2640
MT= 52 (n,n') Level
Legendre Coefficients
26-Fe-59
X10-5
1.5
1.0
0.5
0.0
Legendre (CM)
P23
P24
P25
P26
P27
P28
P29
P30
P31
P32
50
100
150
200
23
Incident Energy (MeV)
26-Fe-59


MAT 2640
MT= 53 (n,n') Level
Legendre Coefficients
26-Fe-59
0.15
0.10
0.05
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
24
Incident Energy (MeV)
26-Fe-59


MAT 2640
MT= 53 (n,n') Level
Legendre Coefficients
26-Fe-59
X10-4
8
6
4
2
0
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
25
Incident Energy (MeV)
26-Fe-59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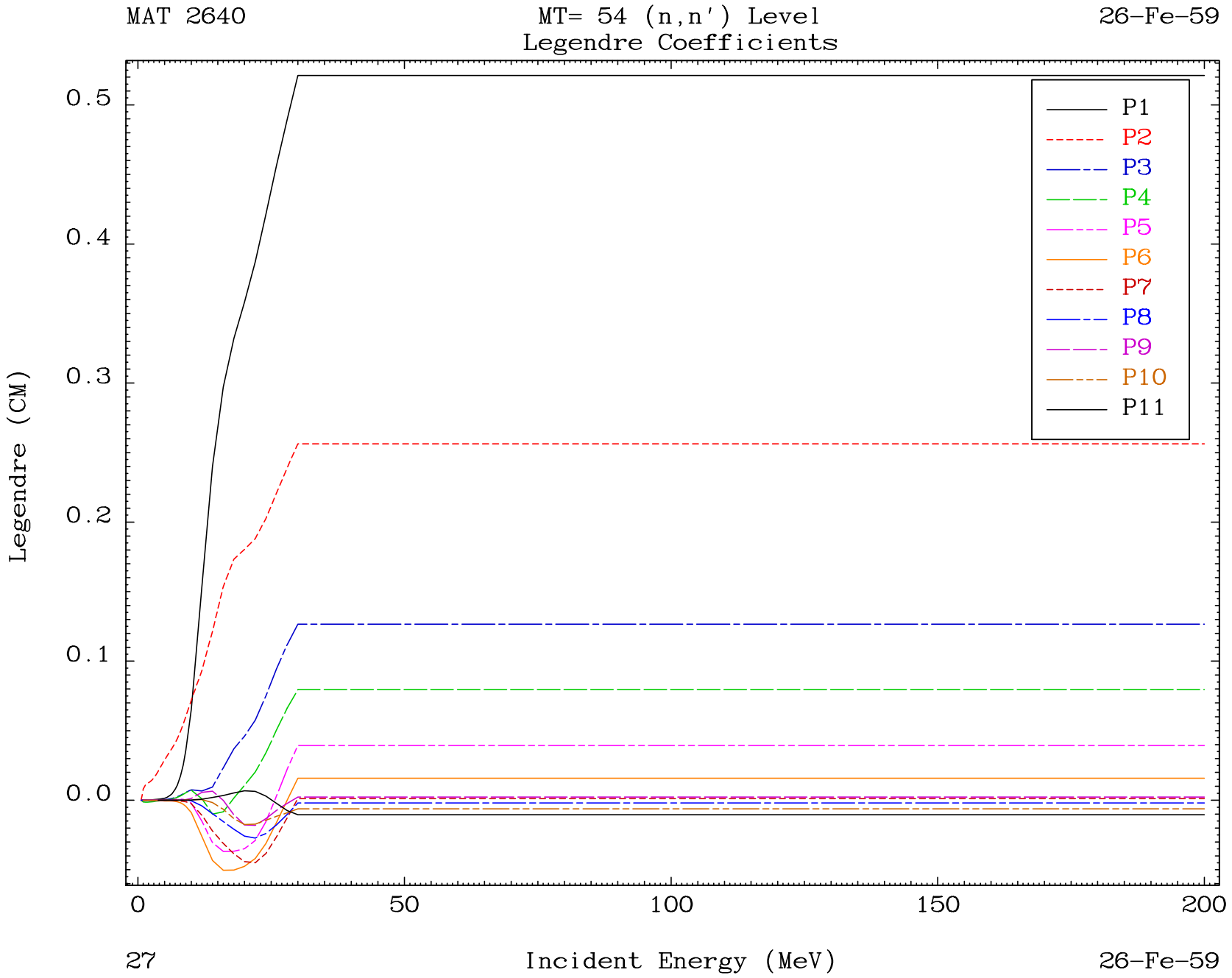
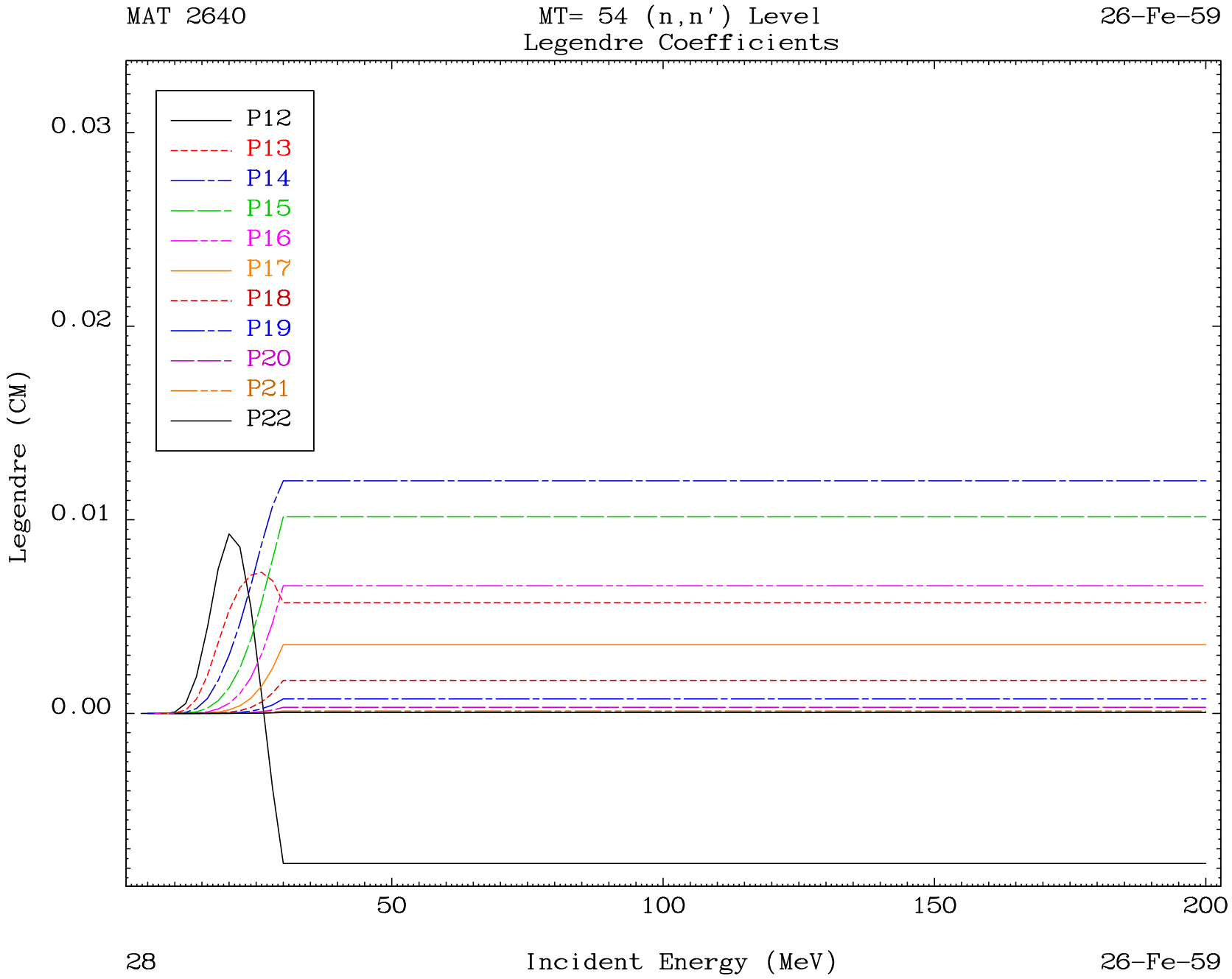
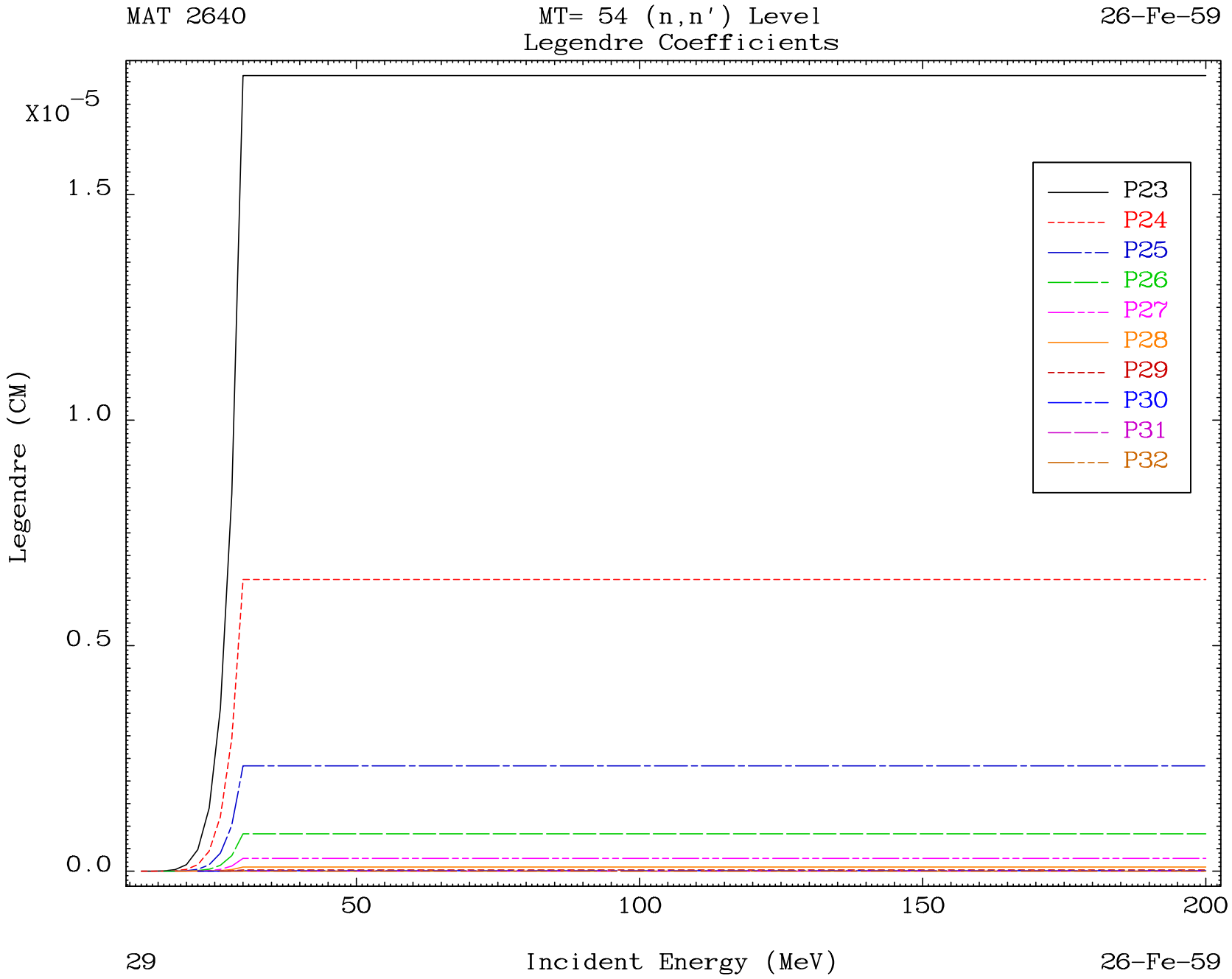
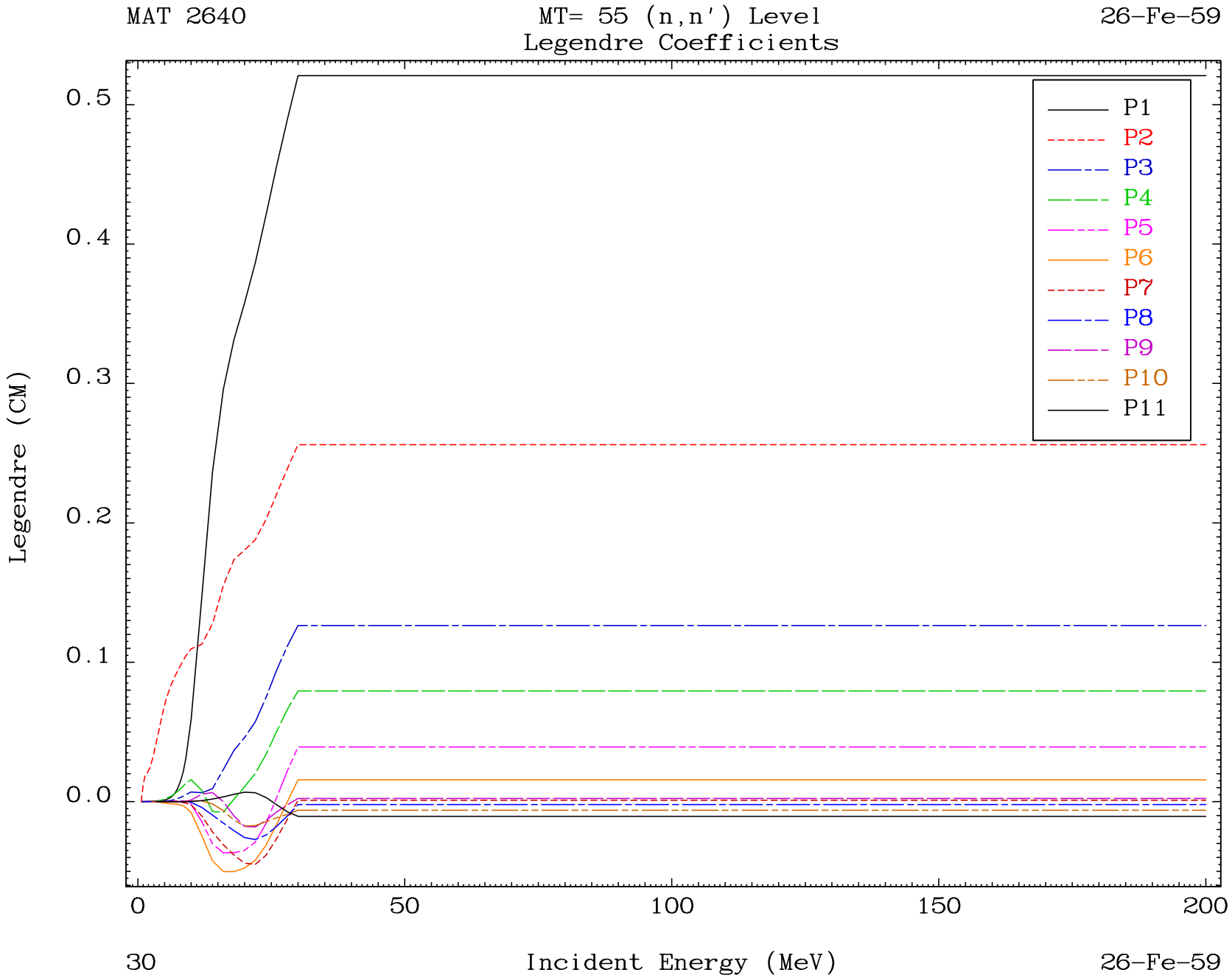
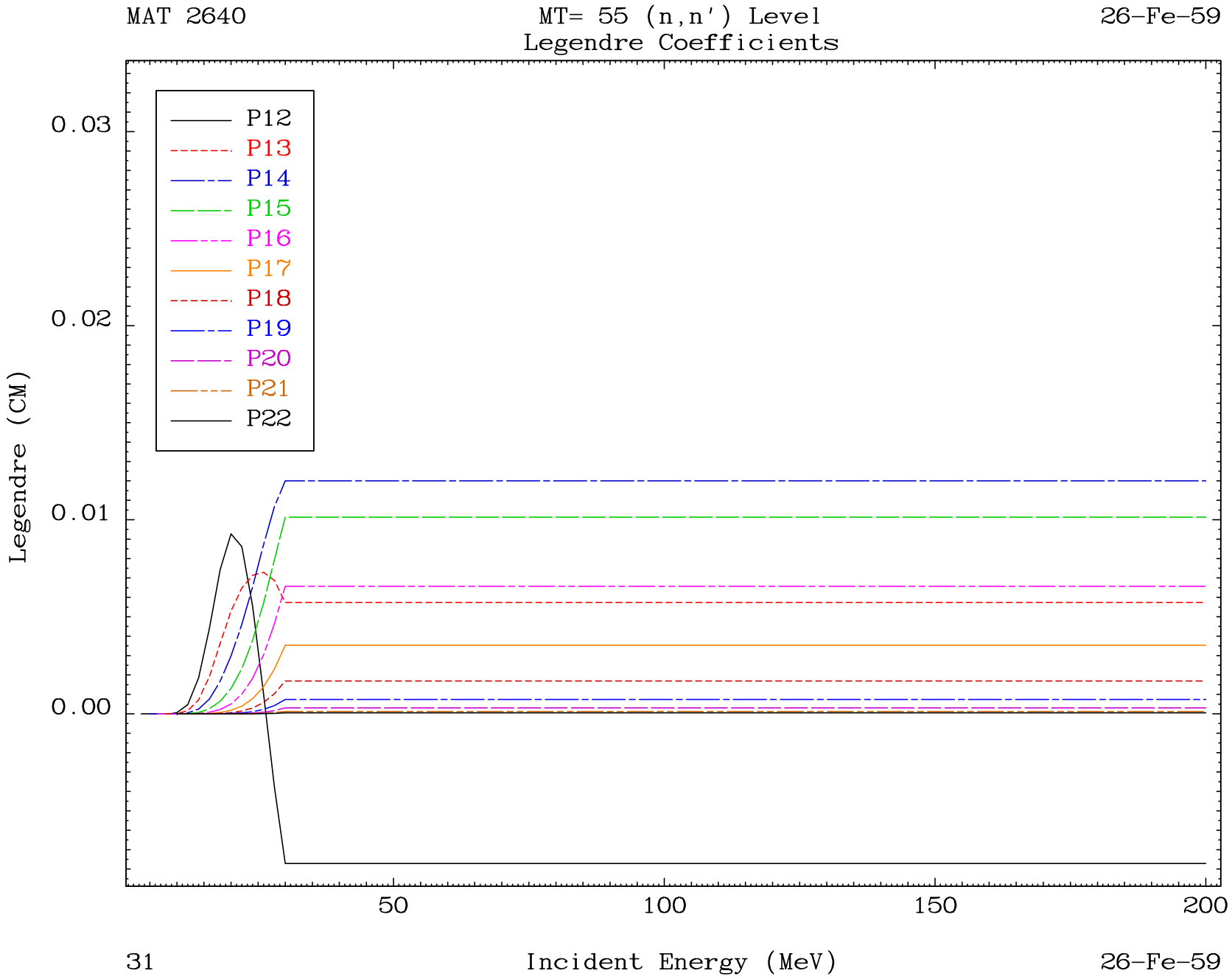
MT= 53 (n,n') Level
Legendre Coefficients
26-Fe-59
X10-7
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
50
100
150
200
Incident Energy (MeV)
26
26-Fe-59
P19
P20
P21
P22
P23
P24
P25
P26

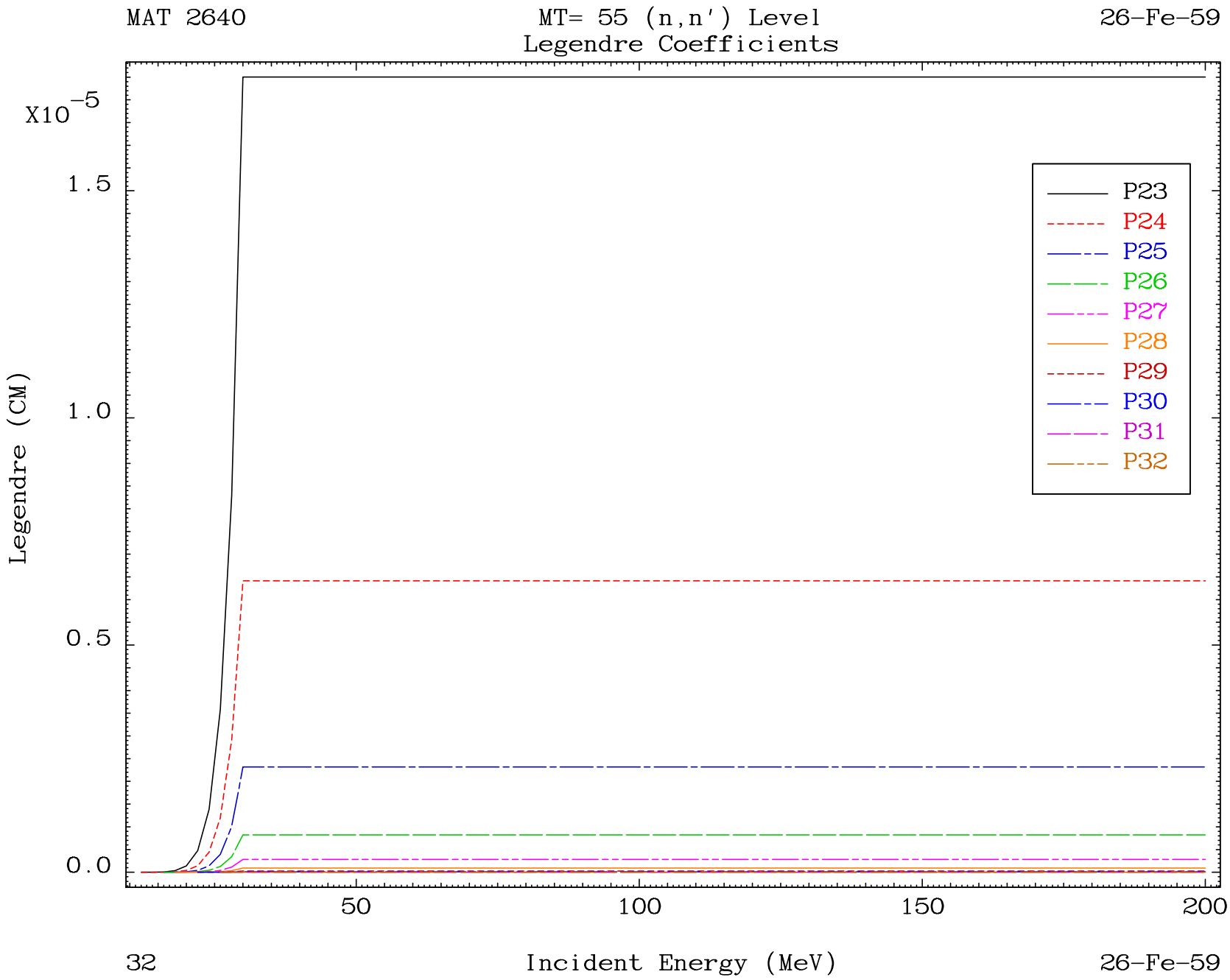

MAT 2640
MT= 54 (n,n') Level
Legendre Coefficients
26-Fe-59
Legendre (CM)
0.5
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
Incident Energy (MeV)
27
26-Fe-59
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11

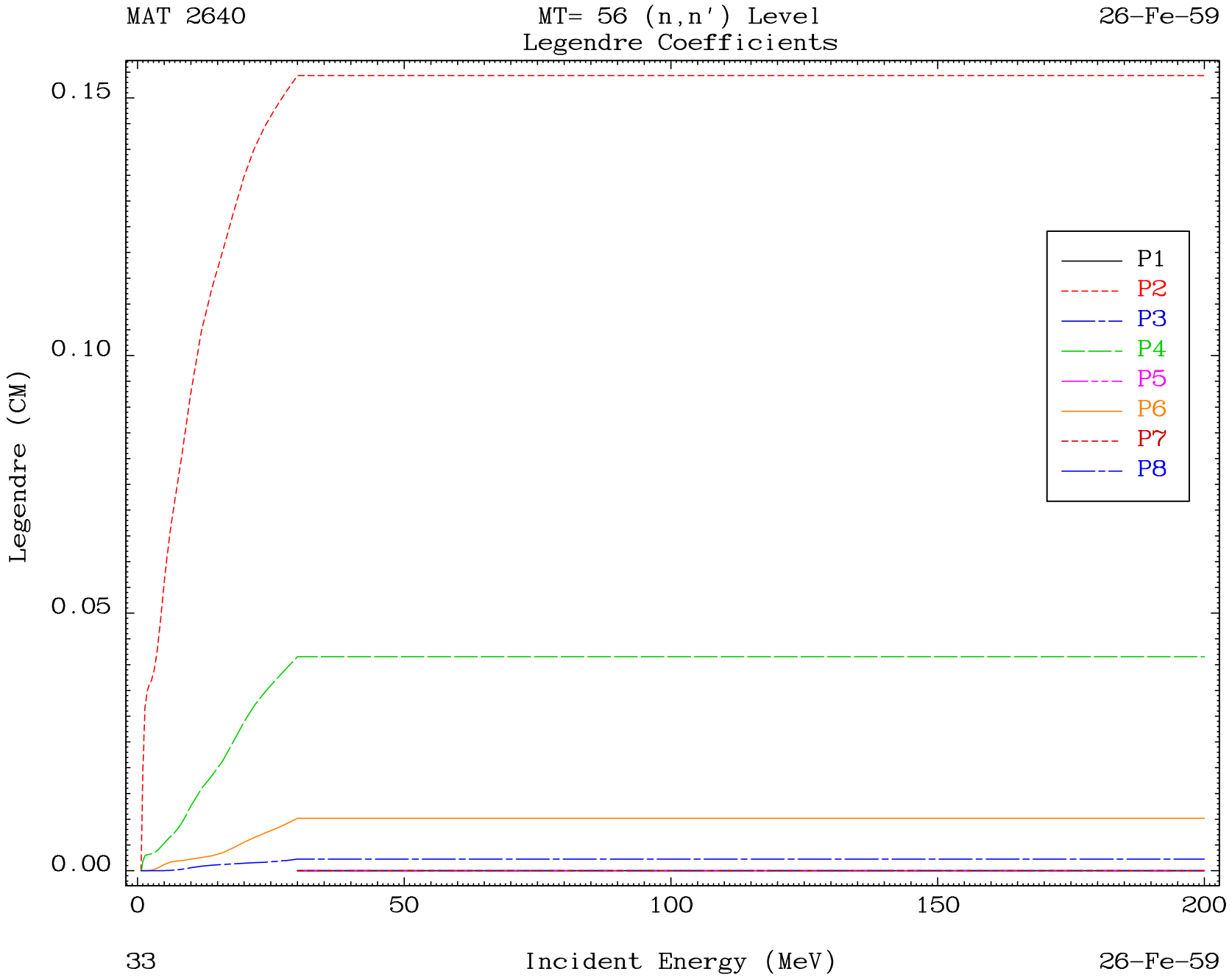

MAT 2640
MT= 54 (n,n') Level
Legendre Coefficients
26-Fe-59
P12
P13
P14
P15
P16
P17
P18
P19
P20
P21
P22
0.03
0.02
0.01
0.00
Legendre (CM)
50
100
150
200
28
Incident Energy (MeV)
26-Fe-59

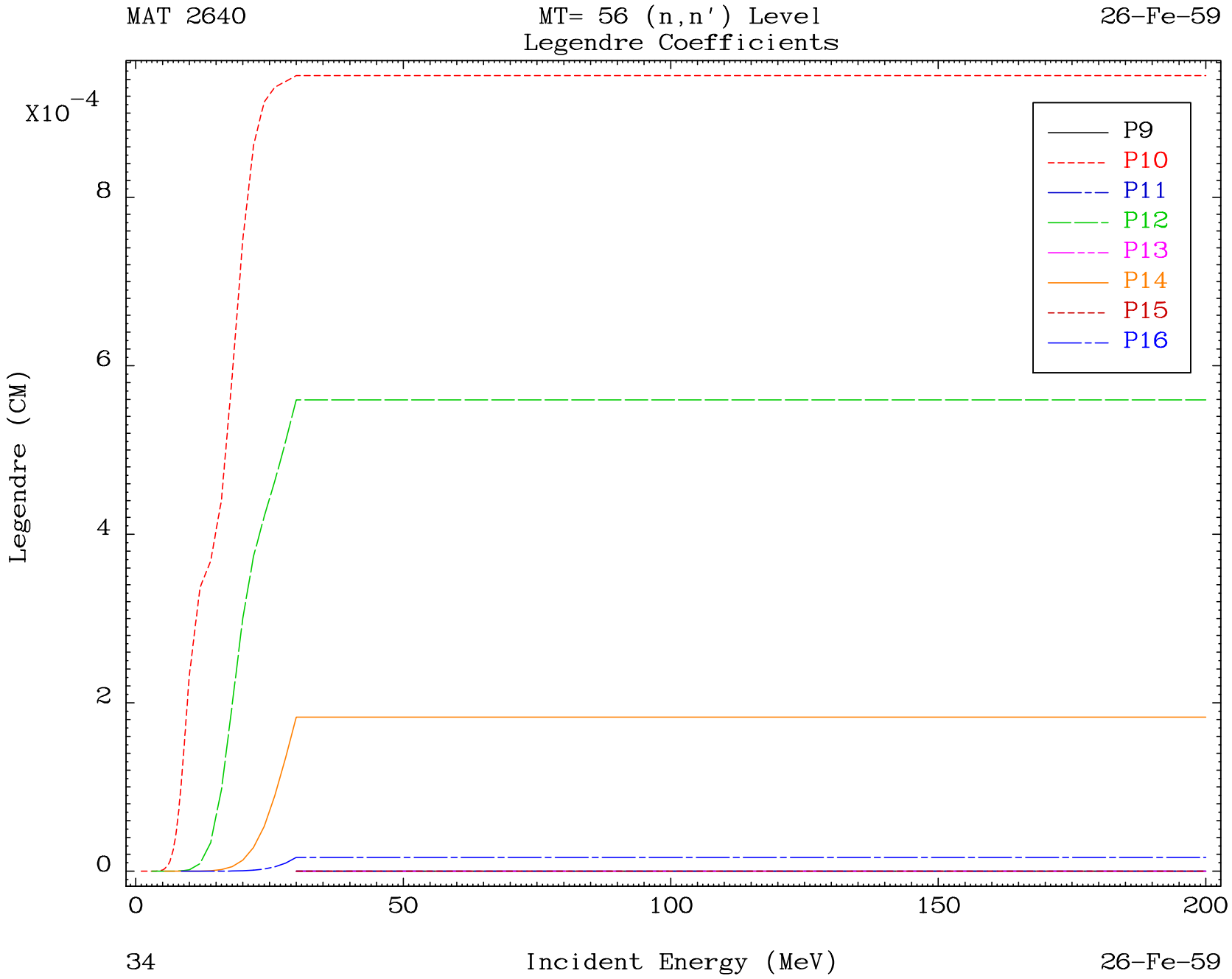

MAT 2640
MT= 54 (n,n') Level
Legendre Coefficients
26-Fe-59
X10-5
1.5
1.0
0.5
0.0
Legendre (CM)
P23
P24
P25
P26
P27
P28
P29
P30
P31
P32
50
100
150
200
29
Incident Energy (MeV)
26-Fe-59

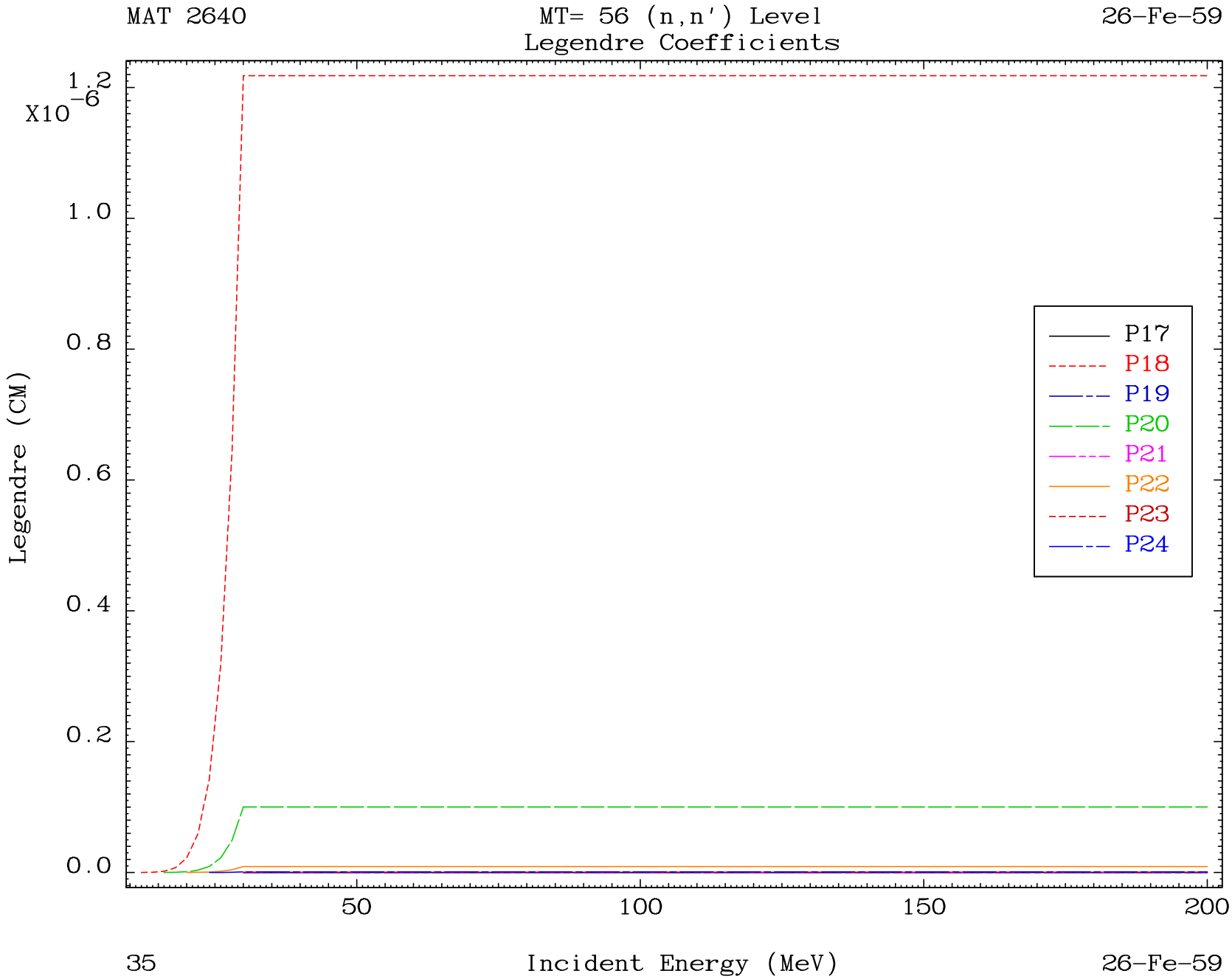

MAT 2640
MT= 55 (n,n') Level
Legendre Coefficients
26-Fe-59
Legendre (CM)
0.5
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
30
Incident Energy (MeV)
26-Fe-59
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11

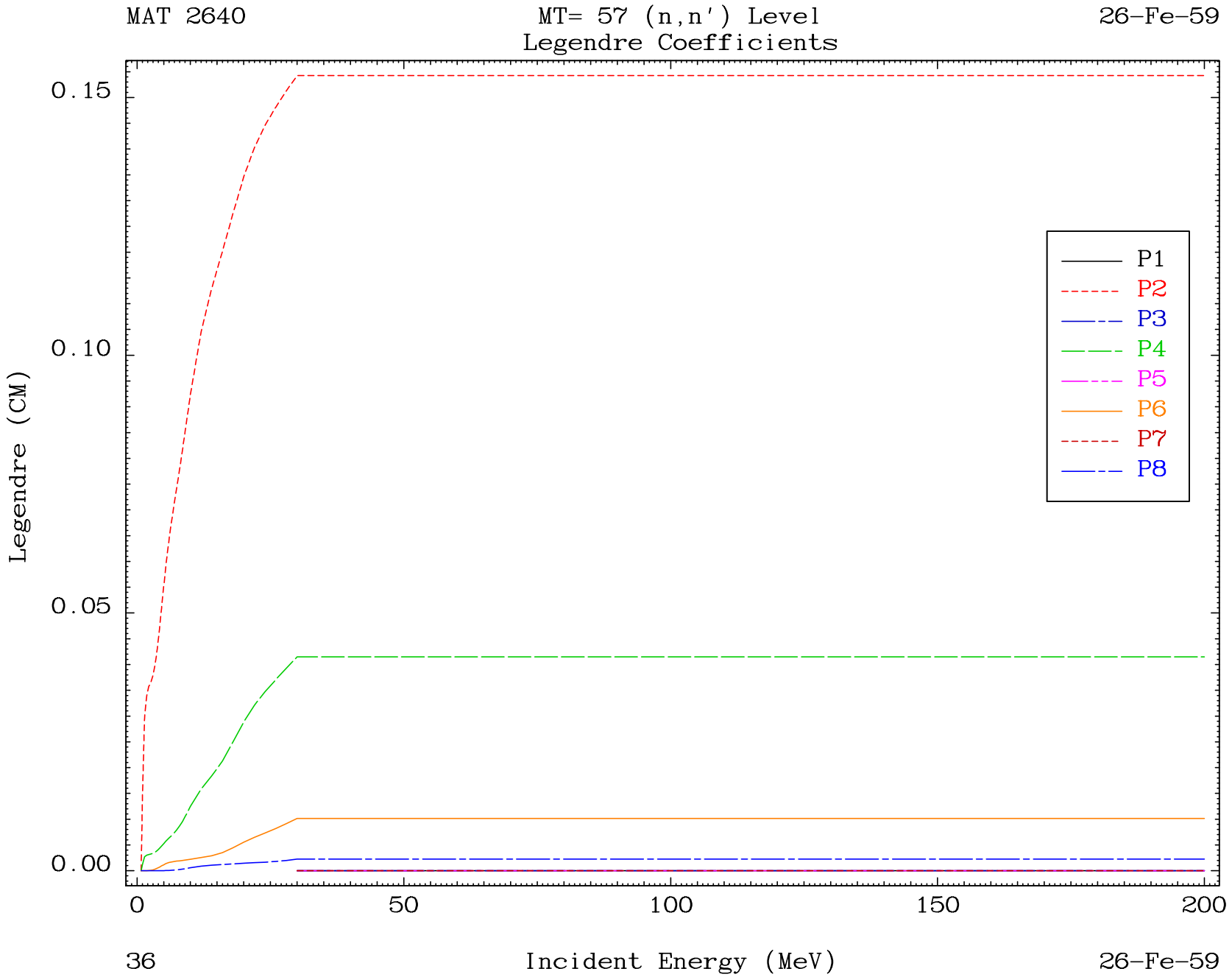

MAT 2640
MT= 55 (n,n') Level
Legendre Coefficients
26-Fe-59
P12
P13
P14
P15
P16
P17
P18
P19
P20
P21
P22
0.03
0.02
0.01
0.00
Legendre (CM)
50
100
150
200
31
Incident Energy (MeV)
26-Fe-59

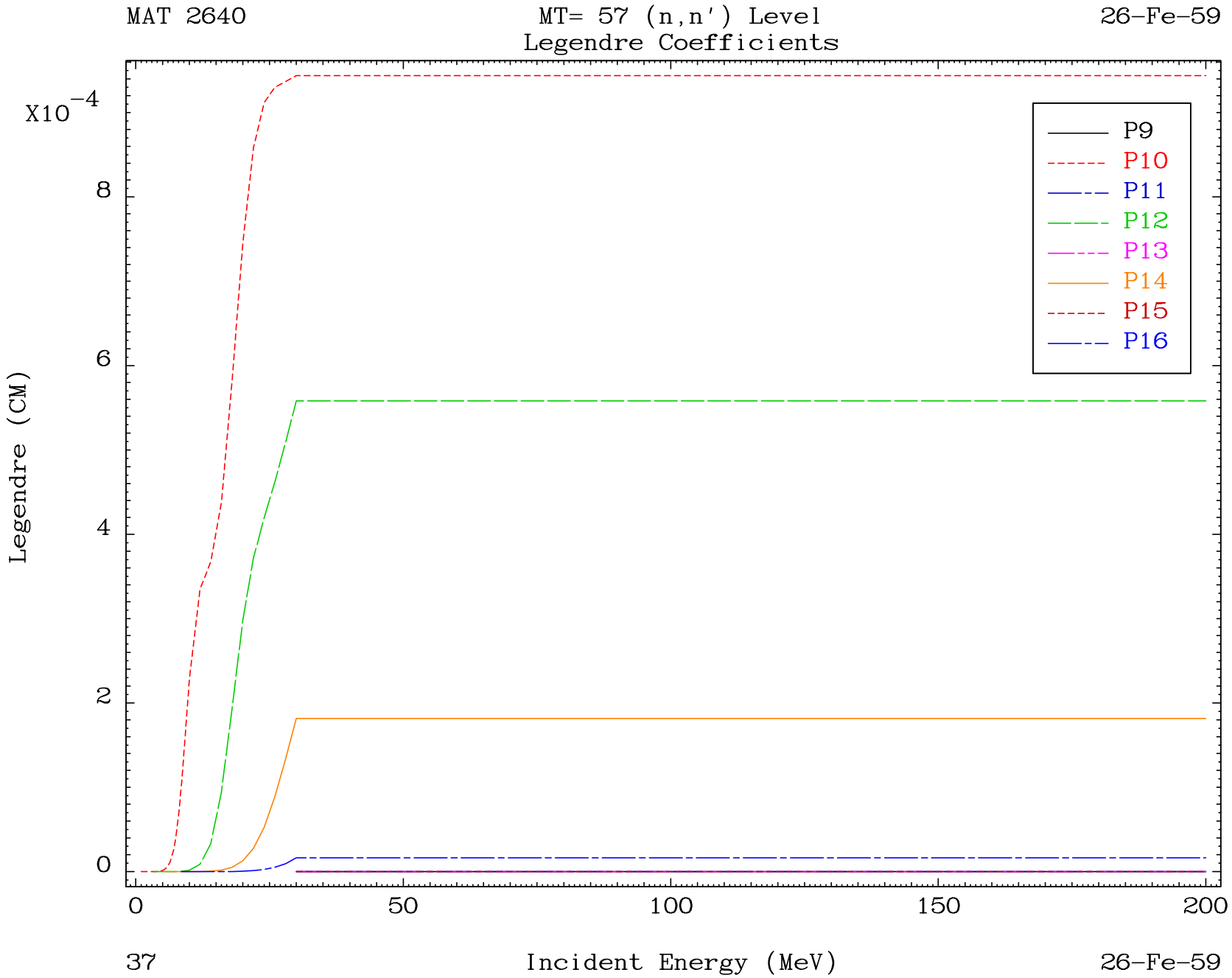

MAT 2640
MT= 55 (n,n') Level
Legendre Coefficients
26-Fe-59
X10-5
1.5
1.0
0.5
0.0
Legendre (CM)
P23
P24
P25
P26
P27
P28
P29
P30
P31
P32
50
100
150
200
32
Incident Energy (MeV)
26-Fe-59

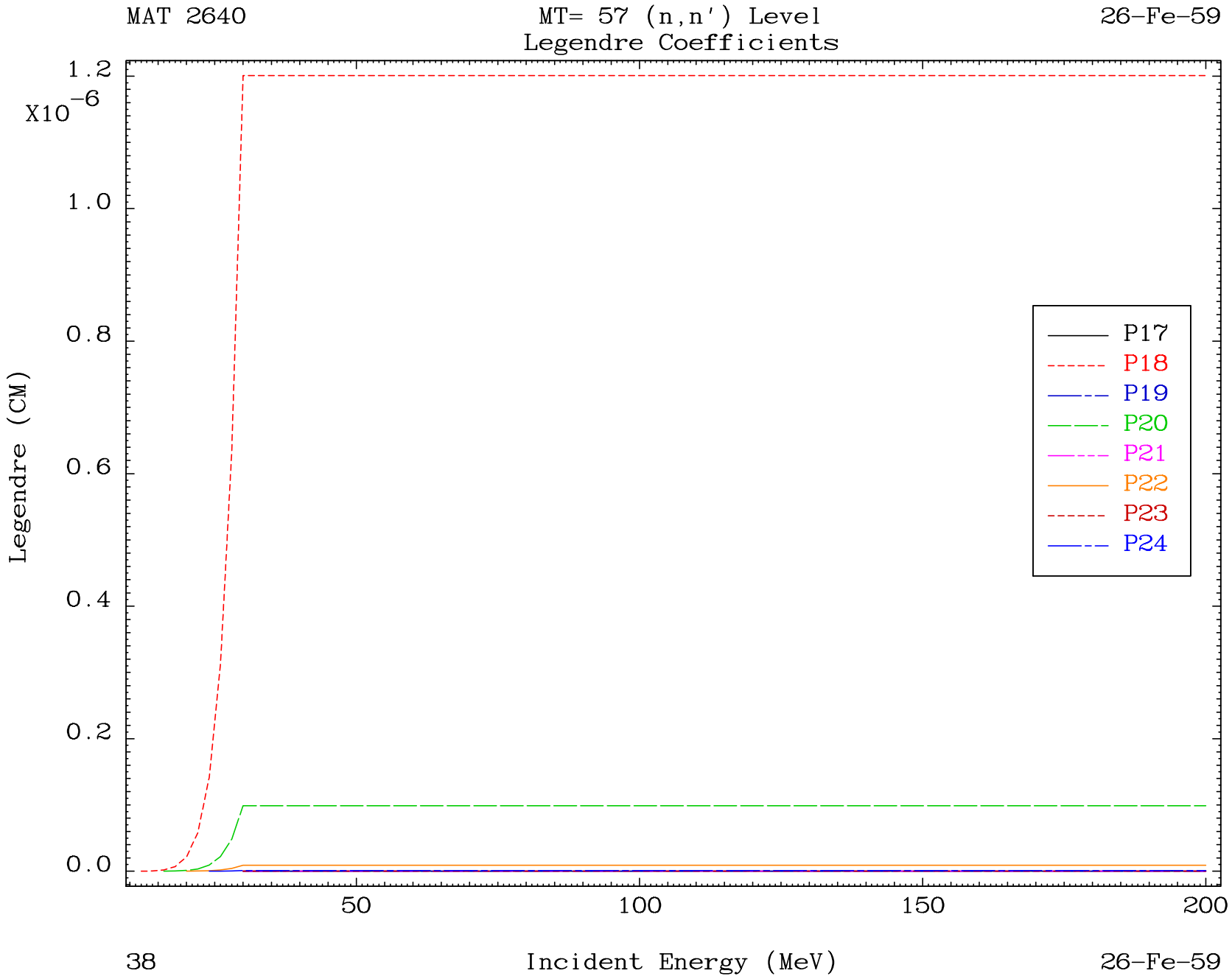

MAT 2640
MT= 56 (n,n') Level
Legendre Coefficients
26-Fe-59
0.15
0.10
0.05
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
0
50
100
150
200
33
Incident Energy (MeV)
26-Fe-59

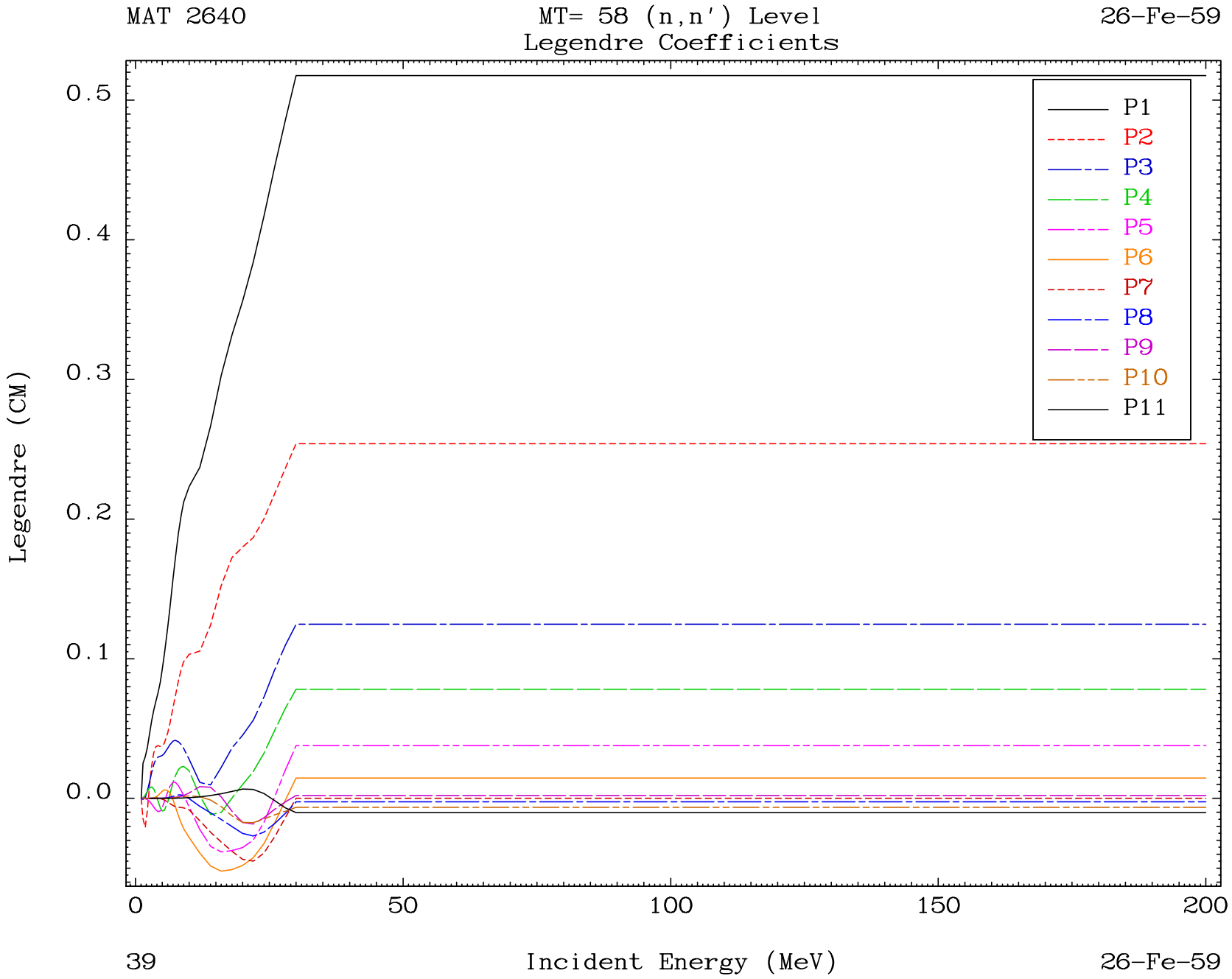

MAT 2640
MT= 56 (n,n') Level
Legendre Coefficients
26-Fe-59
X10^-4
8
6
4
2
0
Legendre (CM)
P9
P10
P11
P12
P13
P14
P15
P16
0
50
100
150
200
34
Incident Energy (MeV)
26-Fe-59

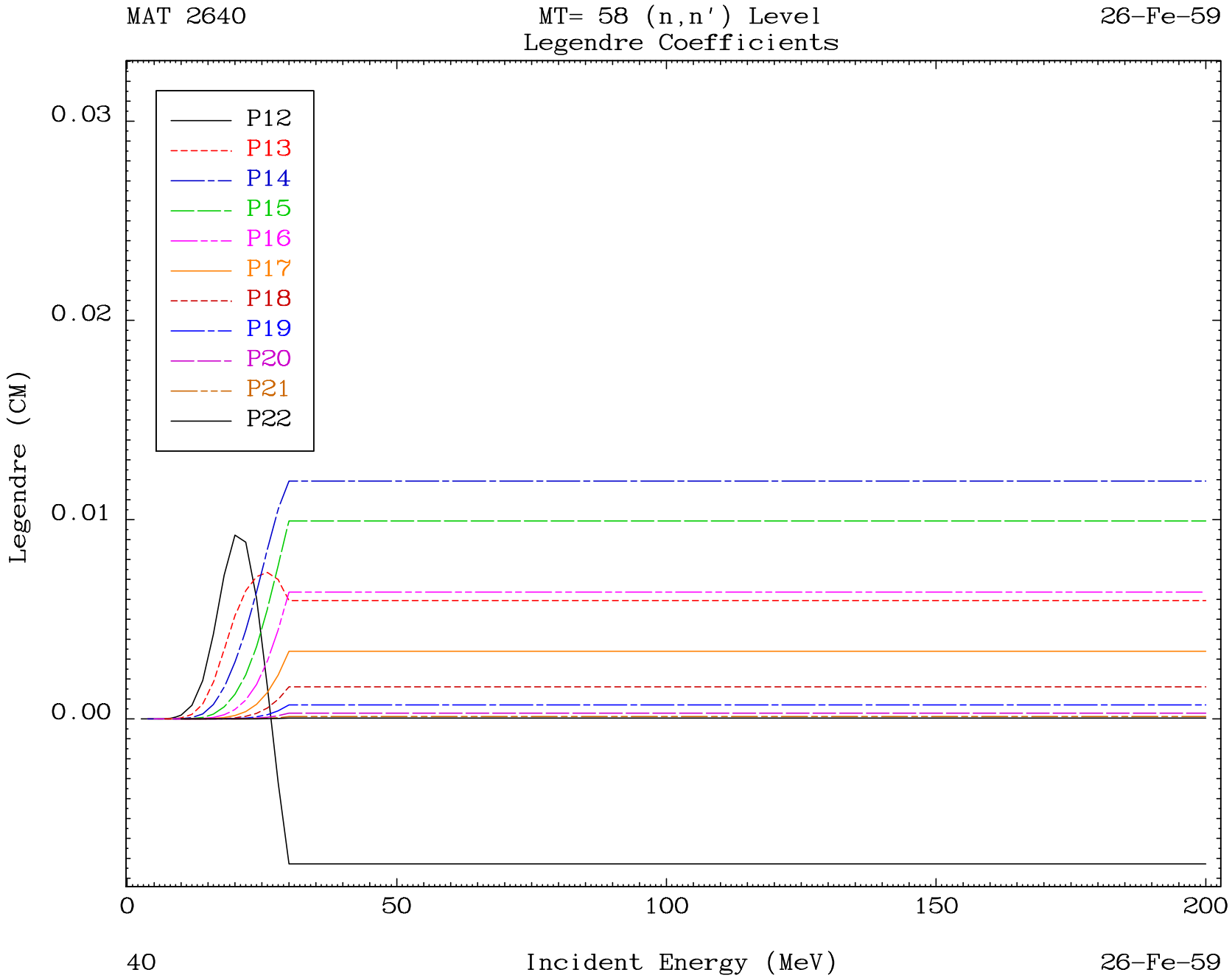

MAT 2640
MT= 56 (n,n') Level
Legendre Coefficients
26-Fe-59
X10 -6
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
P17
P18
P19
P20
P21
P22
P23
P24
50
100
150
200
35
Incident Energy (MeV)
26-Fe-59

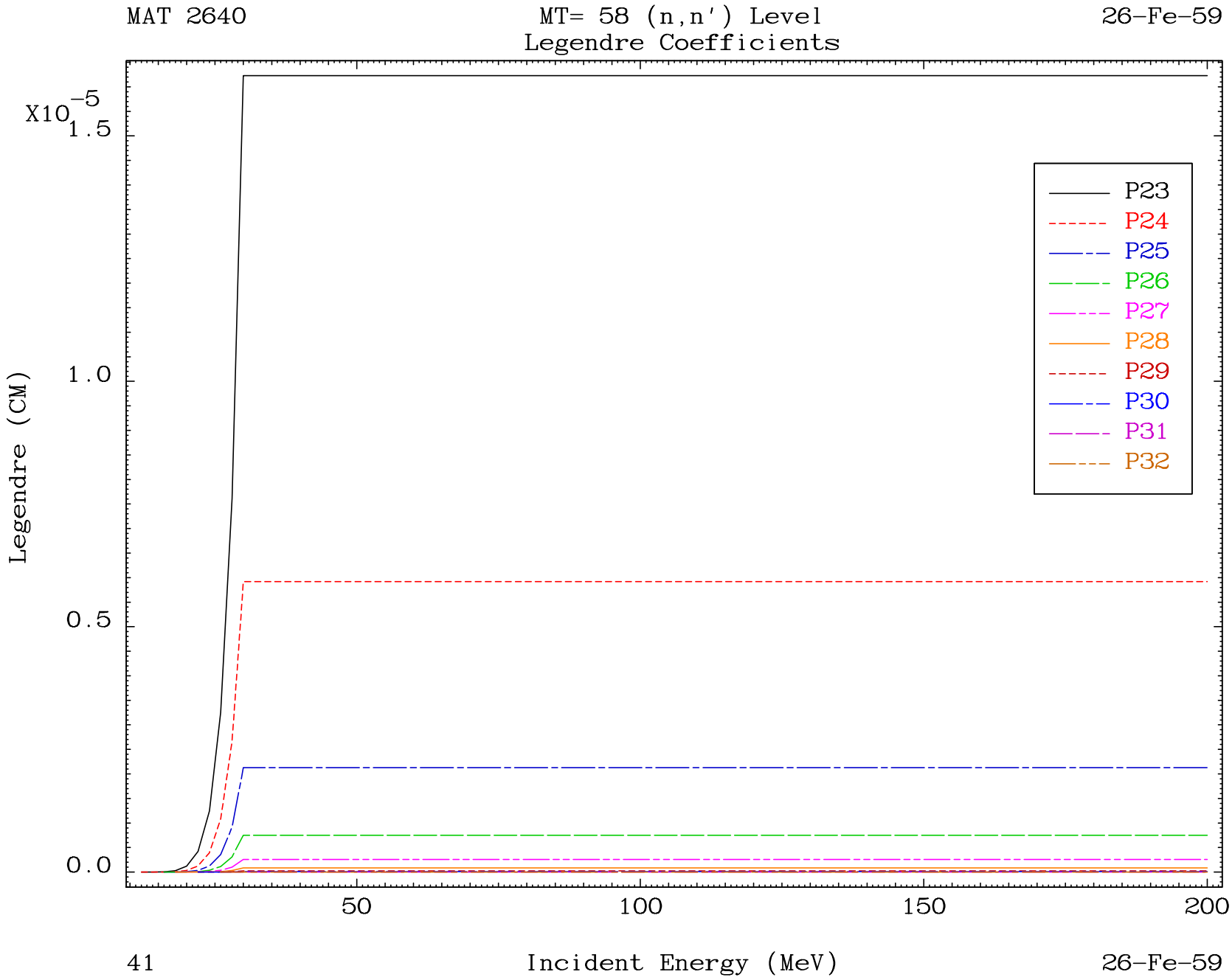

MAT 2640
MT= 57 (n,n') Level
Legendre Coefficients
26-Fe-59
0.15
0.10
0.05
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
0
50
100
150
200
36
Incident Energy (MeV)
26-Fe-59

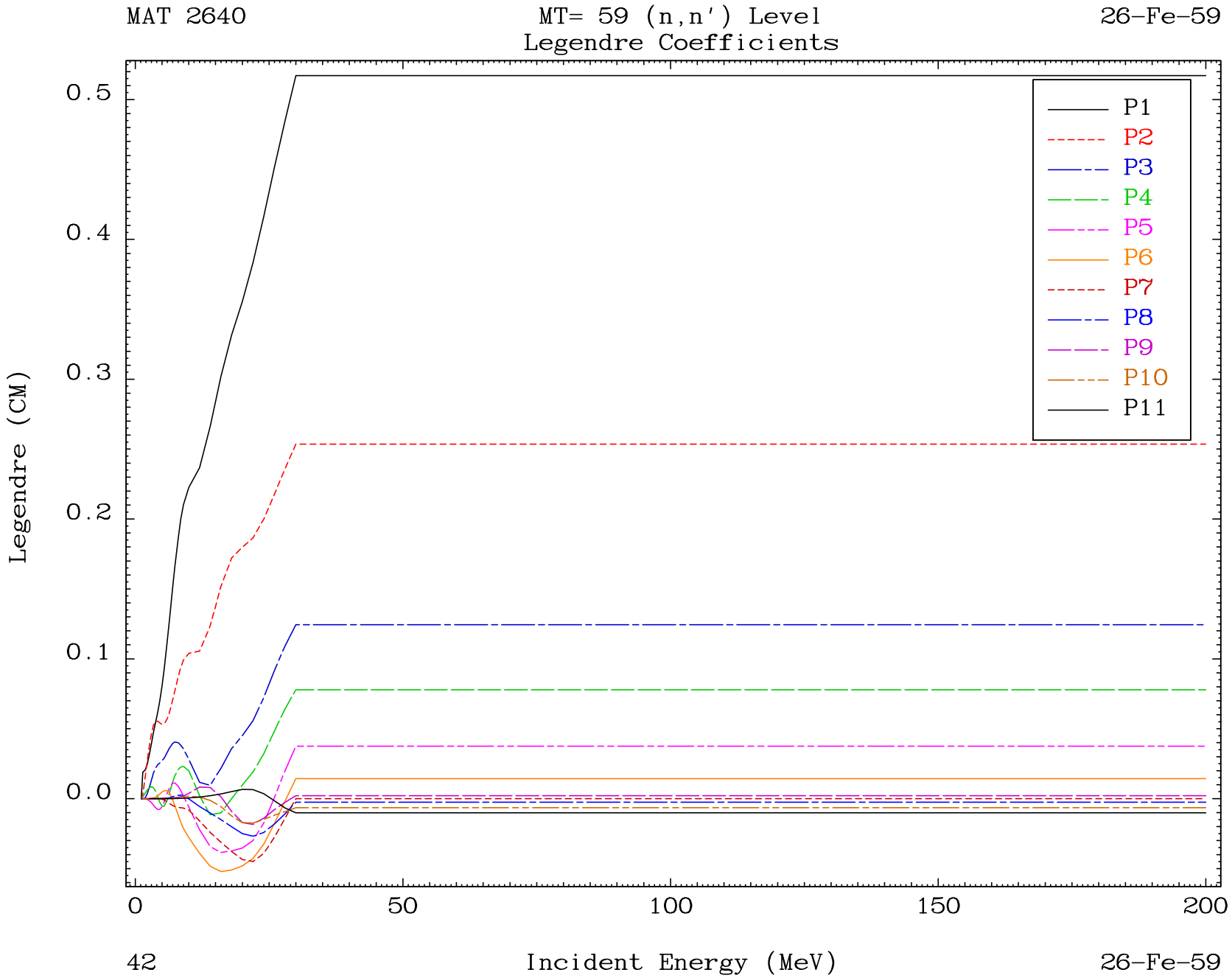

MAT 2640
MT= 57 (n,n') Level
Legendre Coefficients
26-Fe-59
X10-4
8
6
4
2
0
Legendre (CM)
P9
P10
P11
P12
P13
P14
P15
P16
0
50
100
150
200
37
Incident Energy (MeV)
26-Fe-59

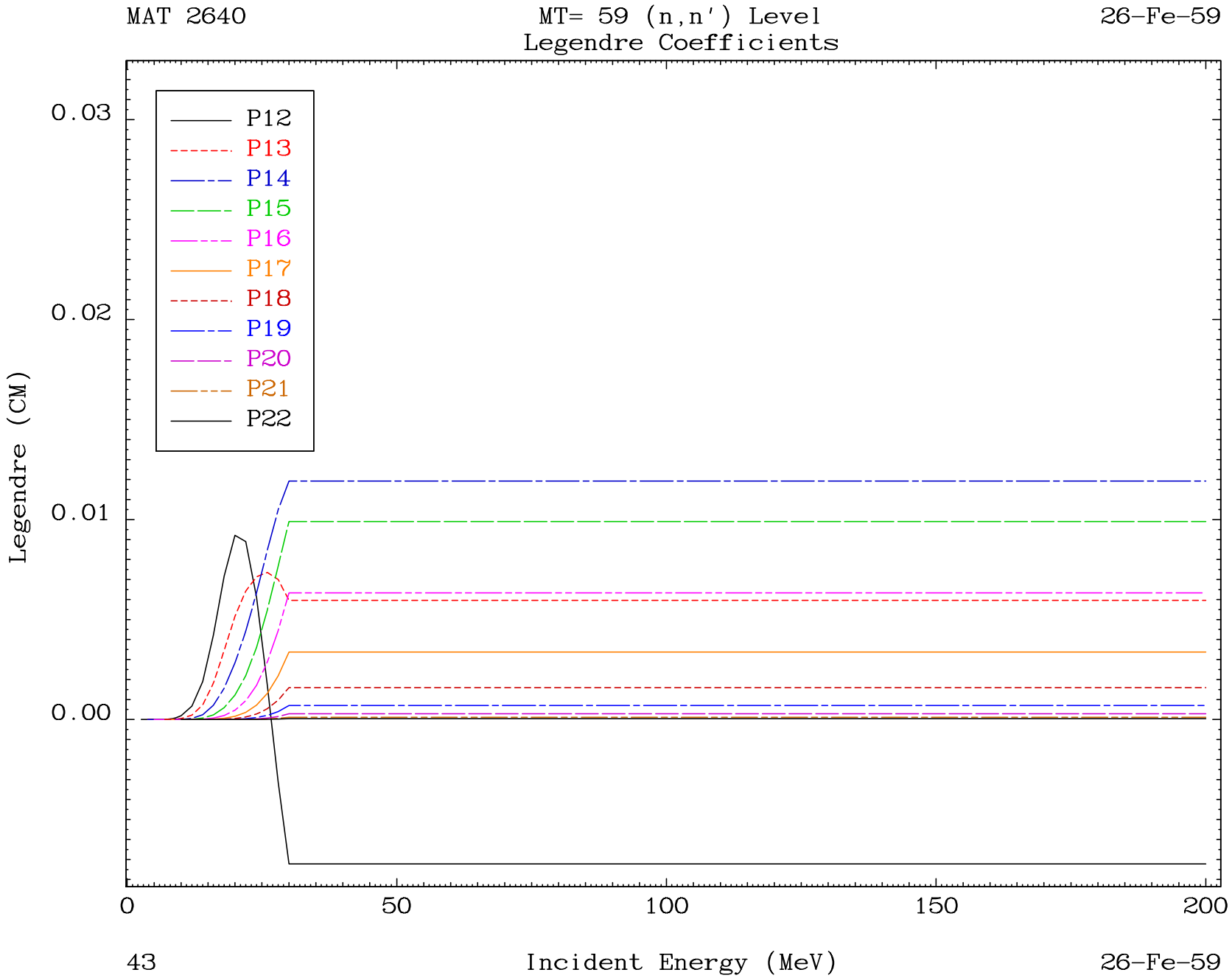

MAT 2640
MT= 57 (n,n') Level
Legendre Coefficients
26-Fe-59
X10 −6
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
50
100
150
200
P17
P18
P19
P20
P21
P22
P23
P24
38
Incident Energy (MeV)
26-Fe-59

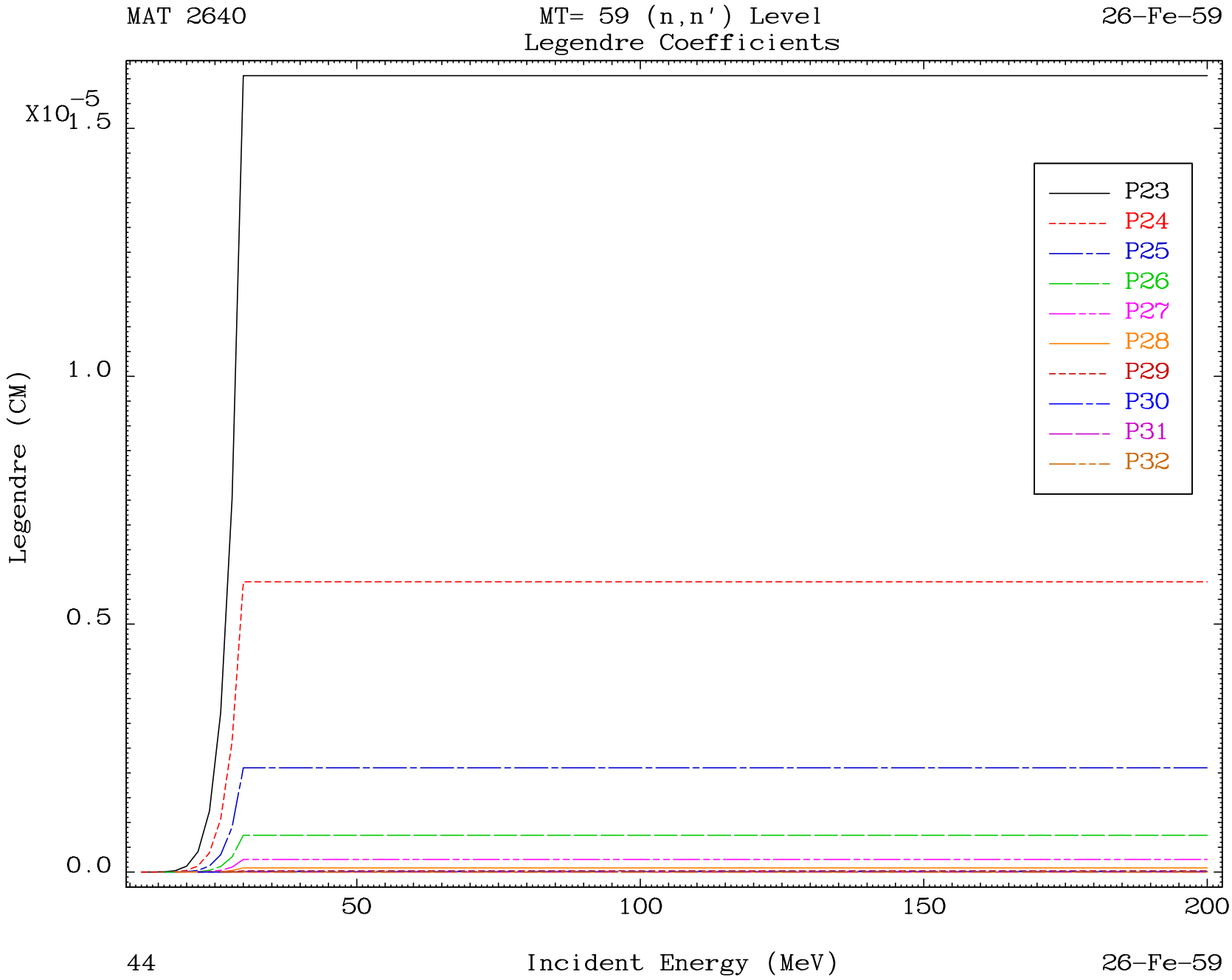

MAT 2640
MT= 58 (n,n') Level
Legendre Coefficients
26-Fe-59
Legendre (CM)
0.5
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11
39
Incident Energy (MeV)
26-Fe-59

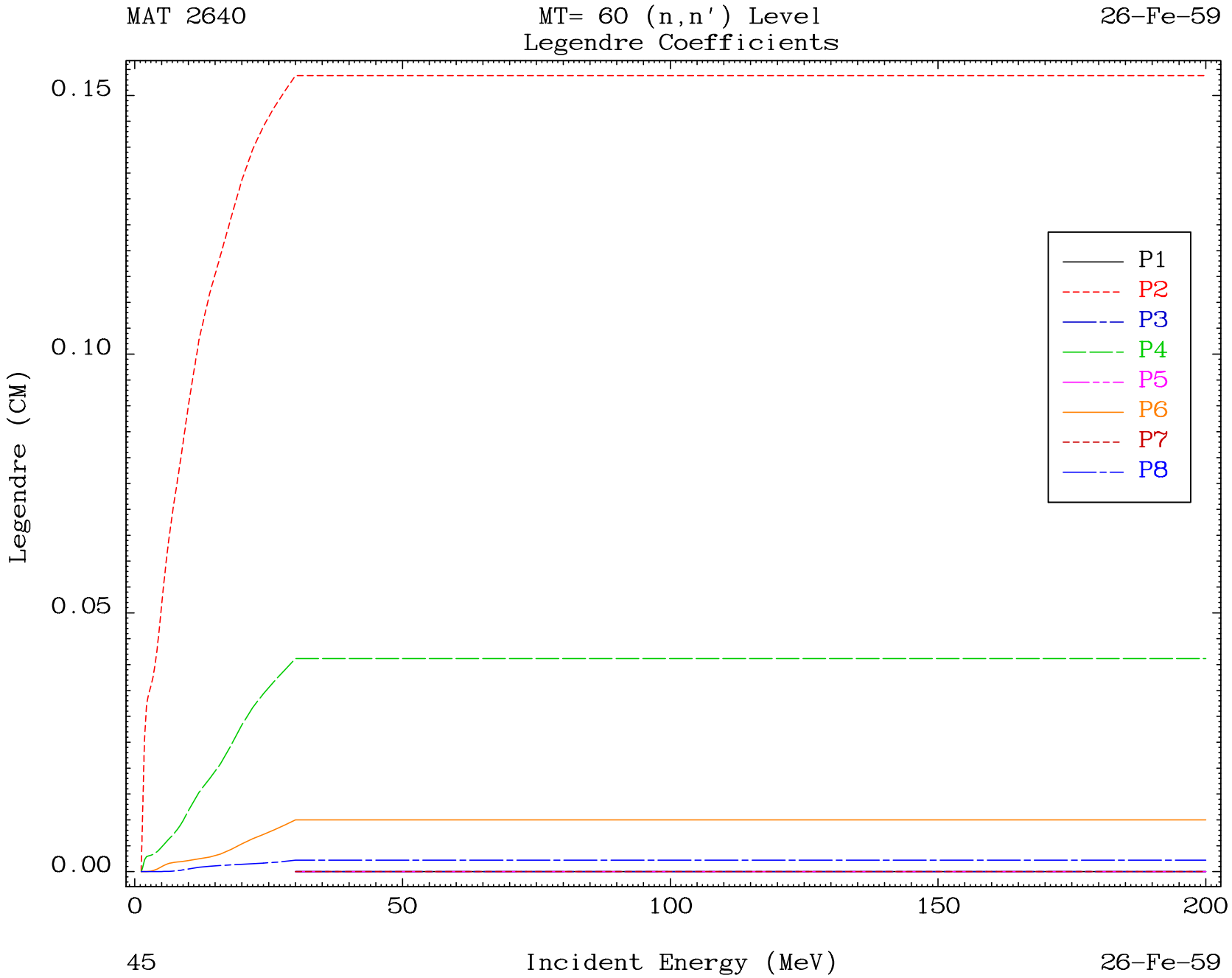

MAT 2640
MT= 58 (n,n') Level
Legendre Coefficients
26-Fe-59
P12
P13
P14
P15
P16
P17
P18
P19
P20
P21
P22
0.03
0.02
0.01
0.00
Legendre (CM)
0
50
100
150
200
40
Incident Energy (MeV)
26-Fe-59

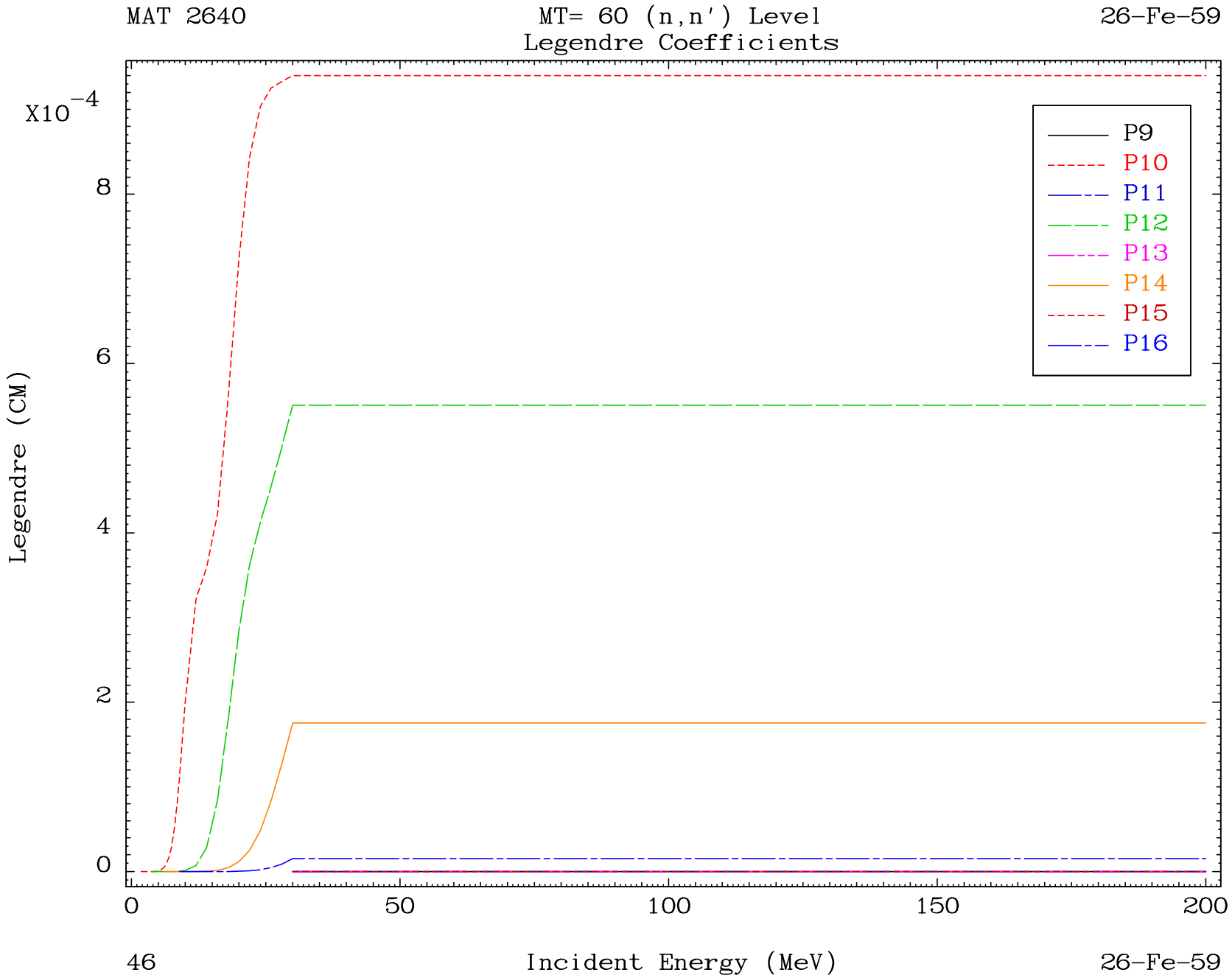

MAT 2640
MT= 58 (n,n') Level
Legendre Coefficients
26-Fe-59
X10-5
1.5
1.0
0.5
0.0
Legendre (CM)
P23
P24
P25
P26
P27
P28
P29
P30
P31
P32
50
100
150
200
41
Incident Energy (MeV)
26-Fe-59

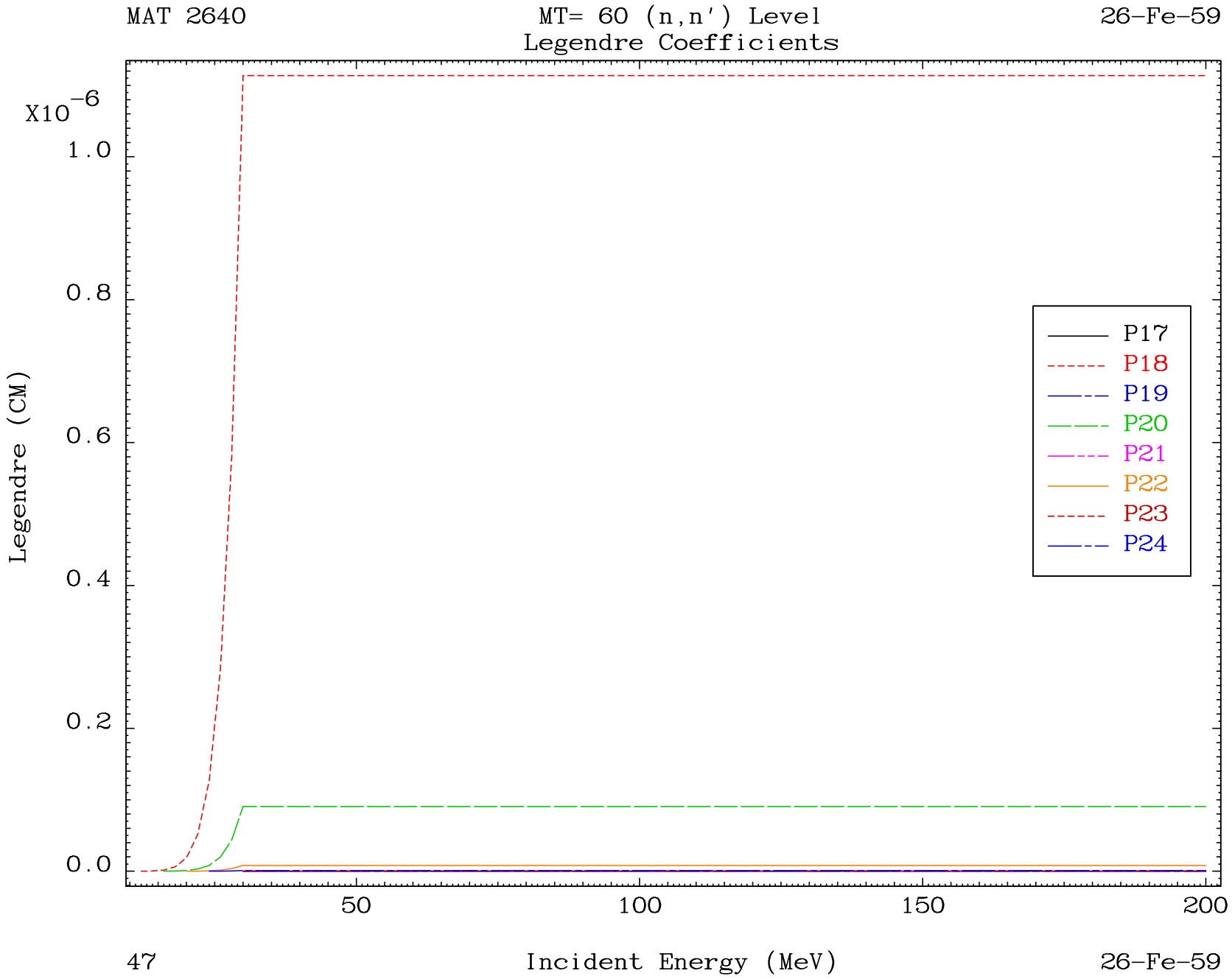

MAT 2640
MT= 59 (n,n') Level
Legendre Coefficients
26-Fe-59
Legendre (CM)
0.5
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11
42
Incident Energy (MeV)
26-Fe-59

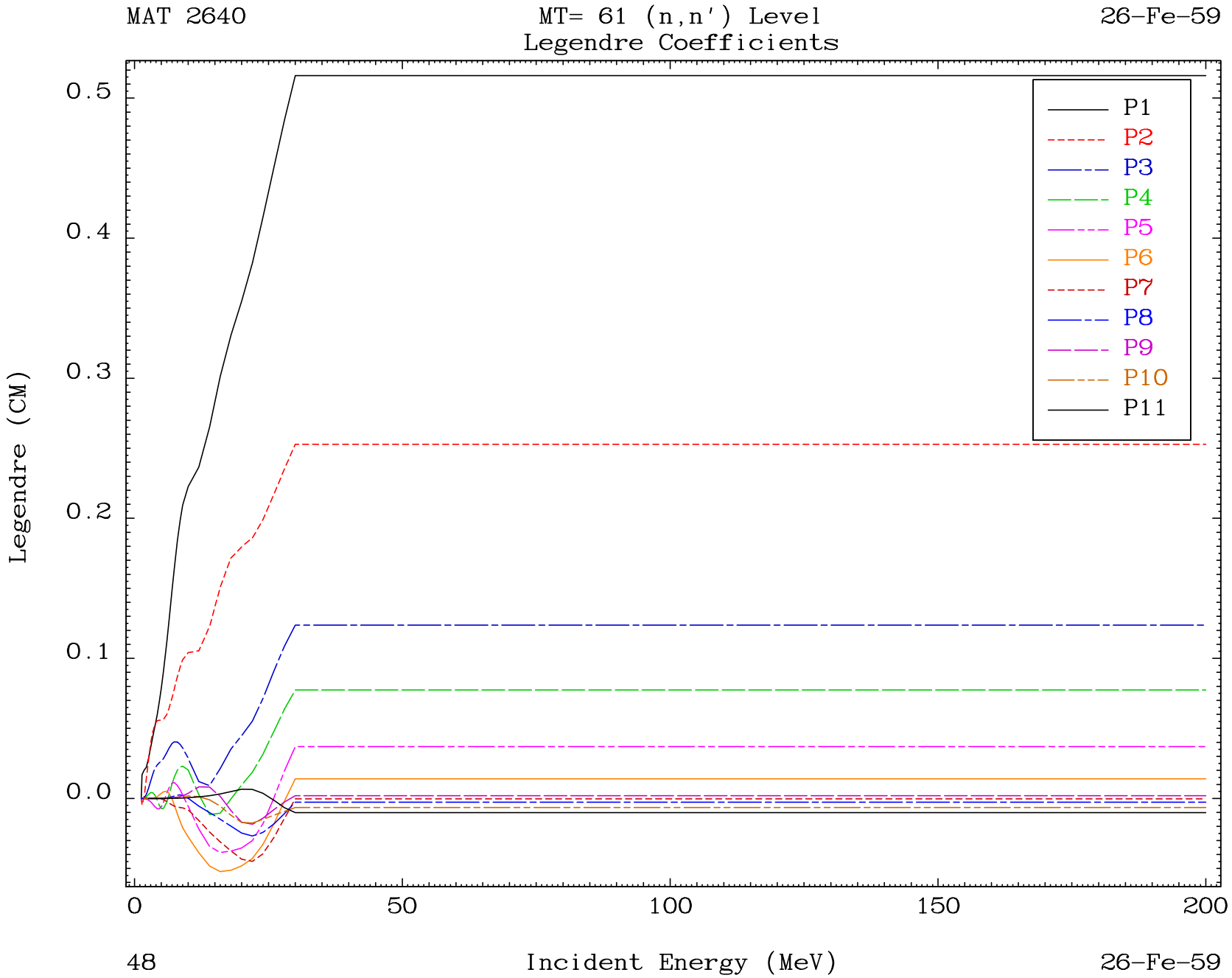

MAT 2640
MT= 59 (n,n') Level
Legendre Coefficients
26-Fe-59
P12
P13
P14
P15
P16
P17
P18
P19
P20
P21
P22
0.03
0.02
0.01
0.00
Legendre (CM)
0
50
100
150
200
43
Incident Energy (MeV)
26-Fe-59

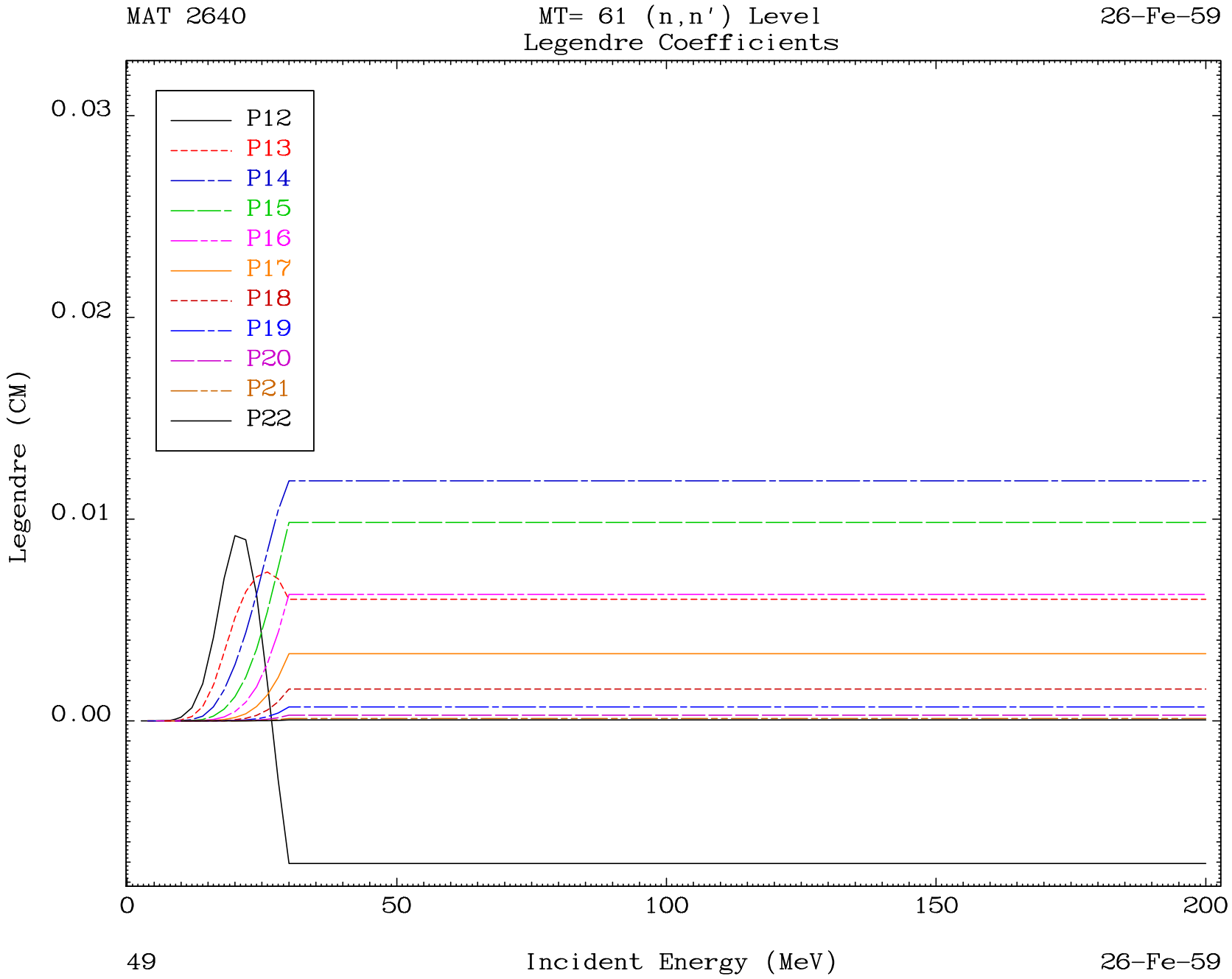

MAT 2640
MT= 59 (n,n') Level
Legendre Coefficients
26-Fe-59
X10-5
1.5
1.0
0.5
0.0
Legendre (CM)
P23
P24
P25
P26
P27
P28
P29
P30
P31
P32
50
100
150
200
44
Incident Energy (MeV)
26-Fe-59

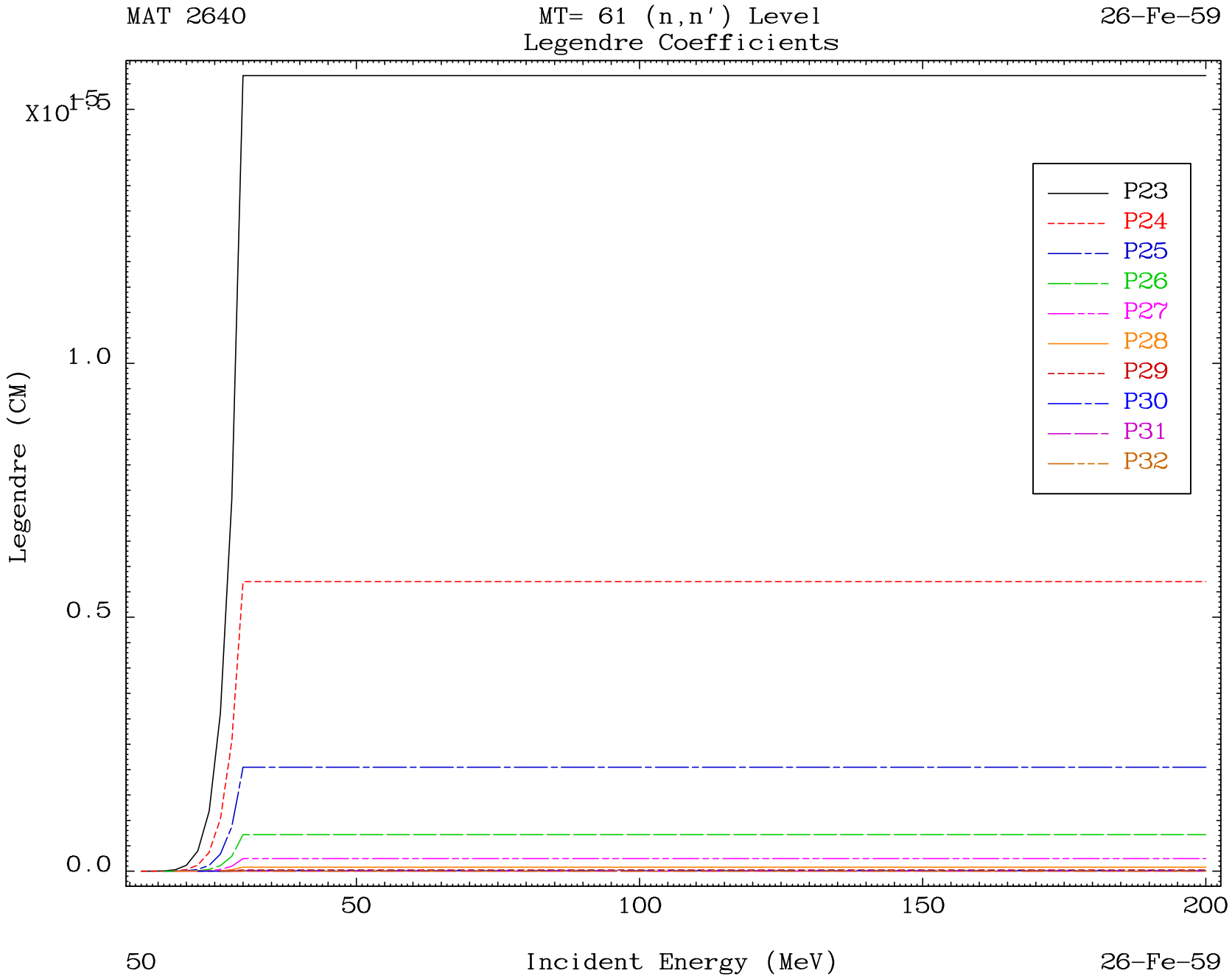

MAT 2640
MT= 60 (n,n') Level
Legendre Coefficients
26-Fe-59
0.15
0.10
0.05
0.00
Legendre (CM)
0
50
100
150
200
45
Incident Energy (MeV)
26-Fe-59
P1
P2
P3
P4
P5
P6
P7
P8

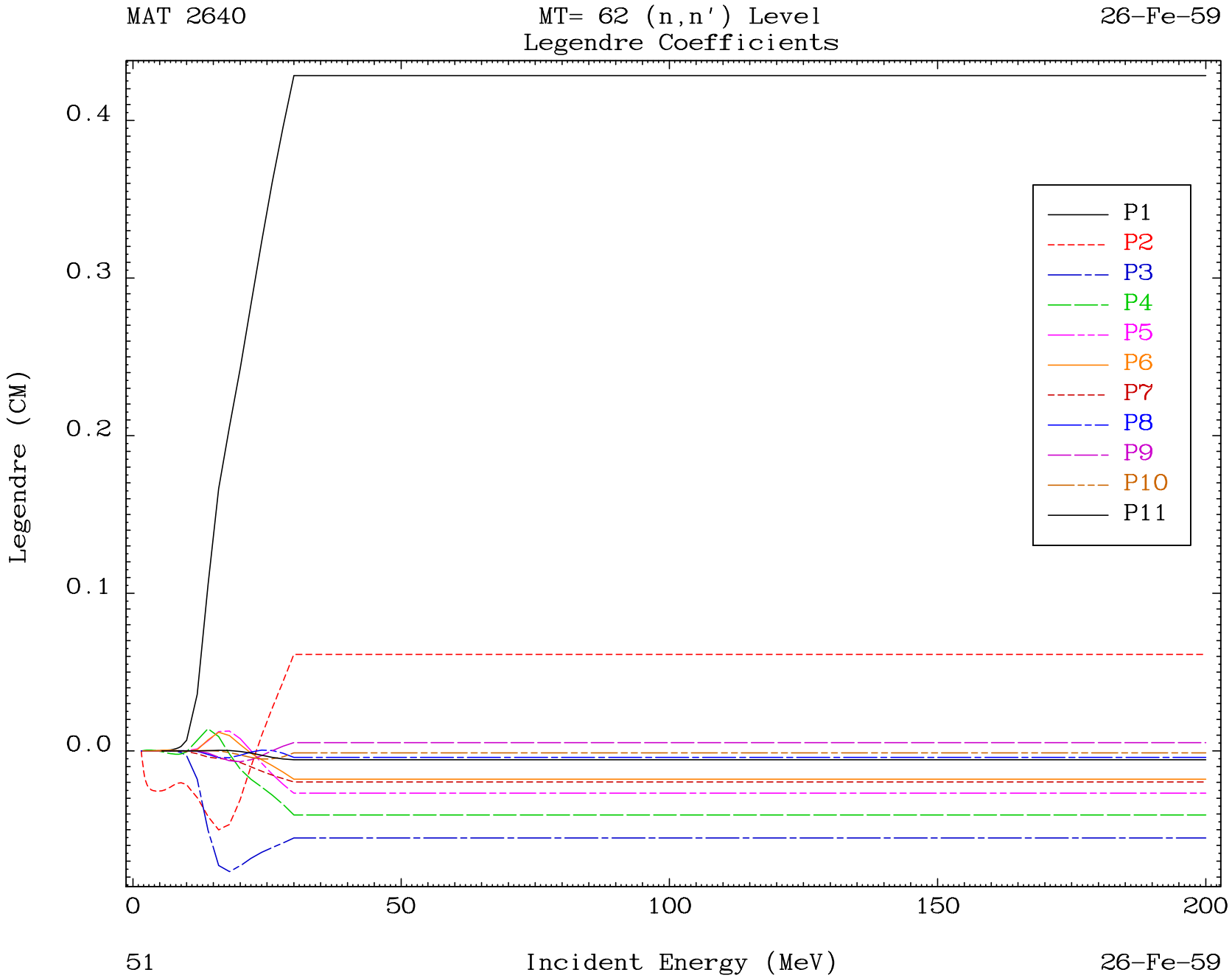

MAT 2640
MT= 60 (n,n') Level
Legendre Coefficients
26-Fe-59
X10^-4
8
6
4
2
0
Legendre (CM)
P9
P10
P11
P12
P13
P14
P15
P16
0
50
100
150
200
46
Incident Energy (MeV)
26-Fe-59

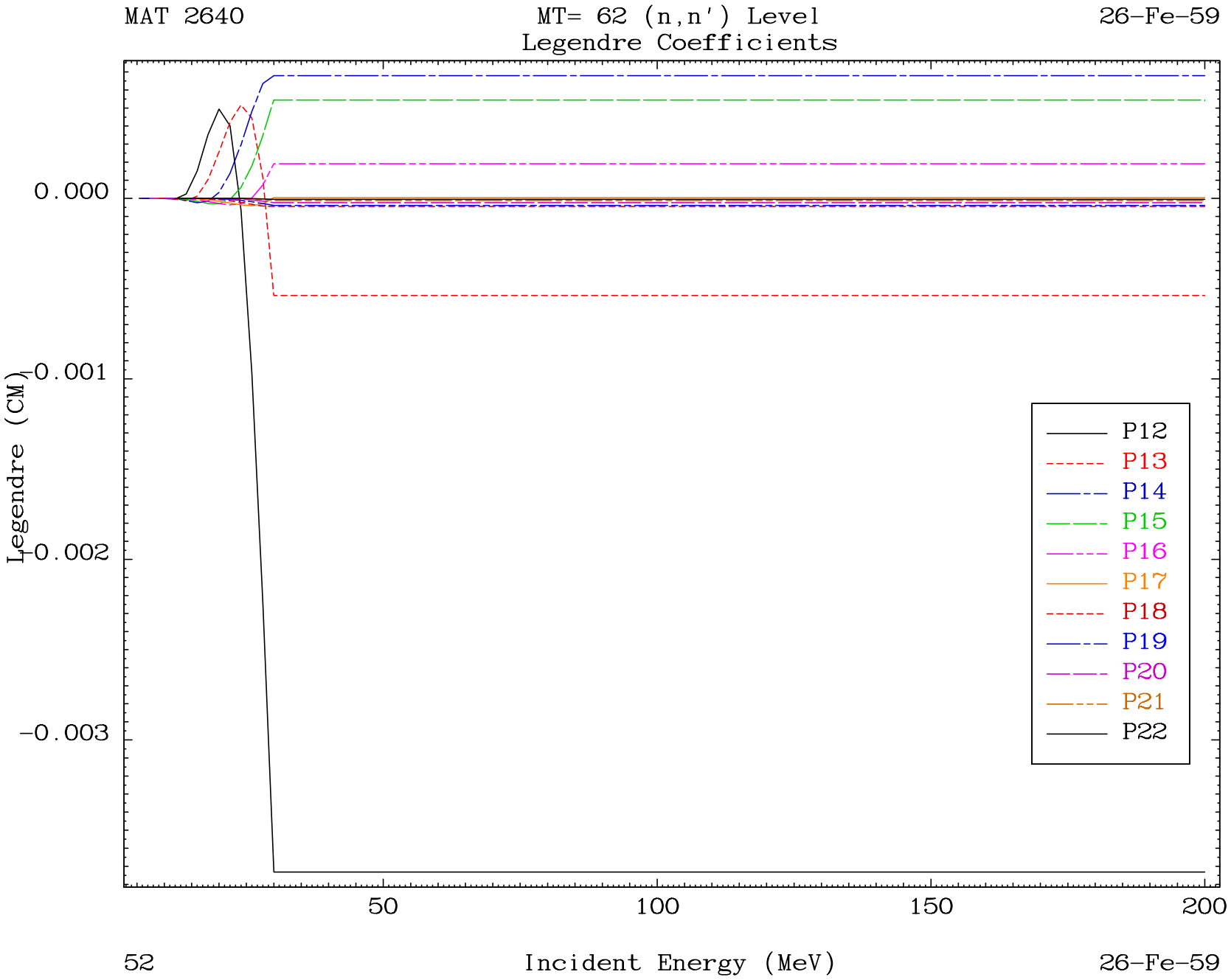

MAT 2640
MT= 60 (n,n') Level
Legendre Coefficients
26-Fe-59
X10-6
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
P17
P18
P19
P20
P21
P22
P23
P24
50
100
150
200
47
Incident Energy (MeV)
26-Fe-59

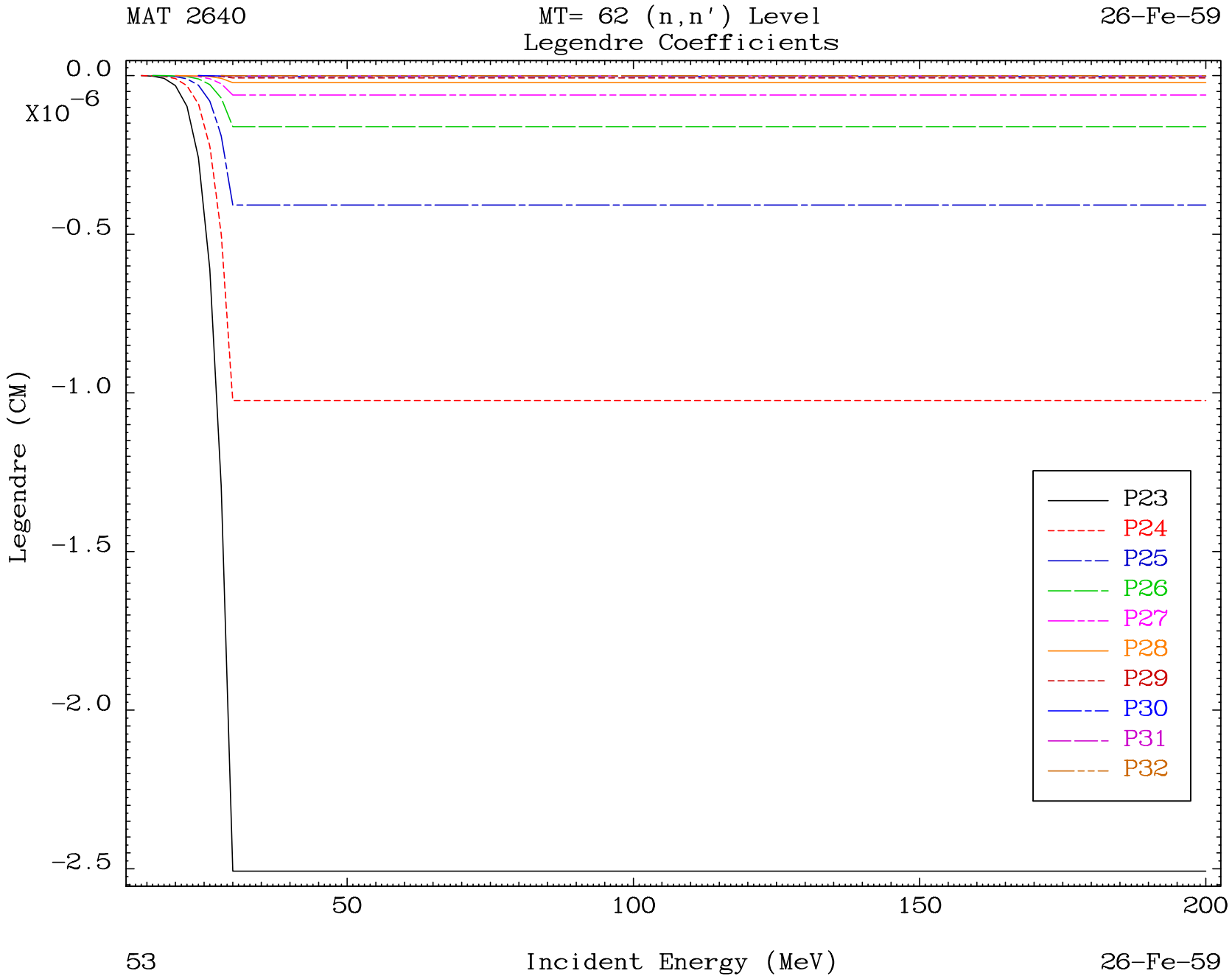

MAT 2640
MT= 61 (n,n') Level
Legendre Coefficients
26-Fe-59
Legendre (CM)
0.5
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11
48
Incident Energy (MeV)
26-Fe-59

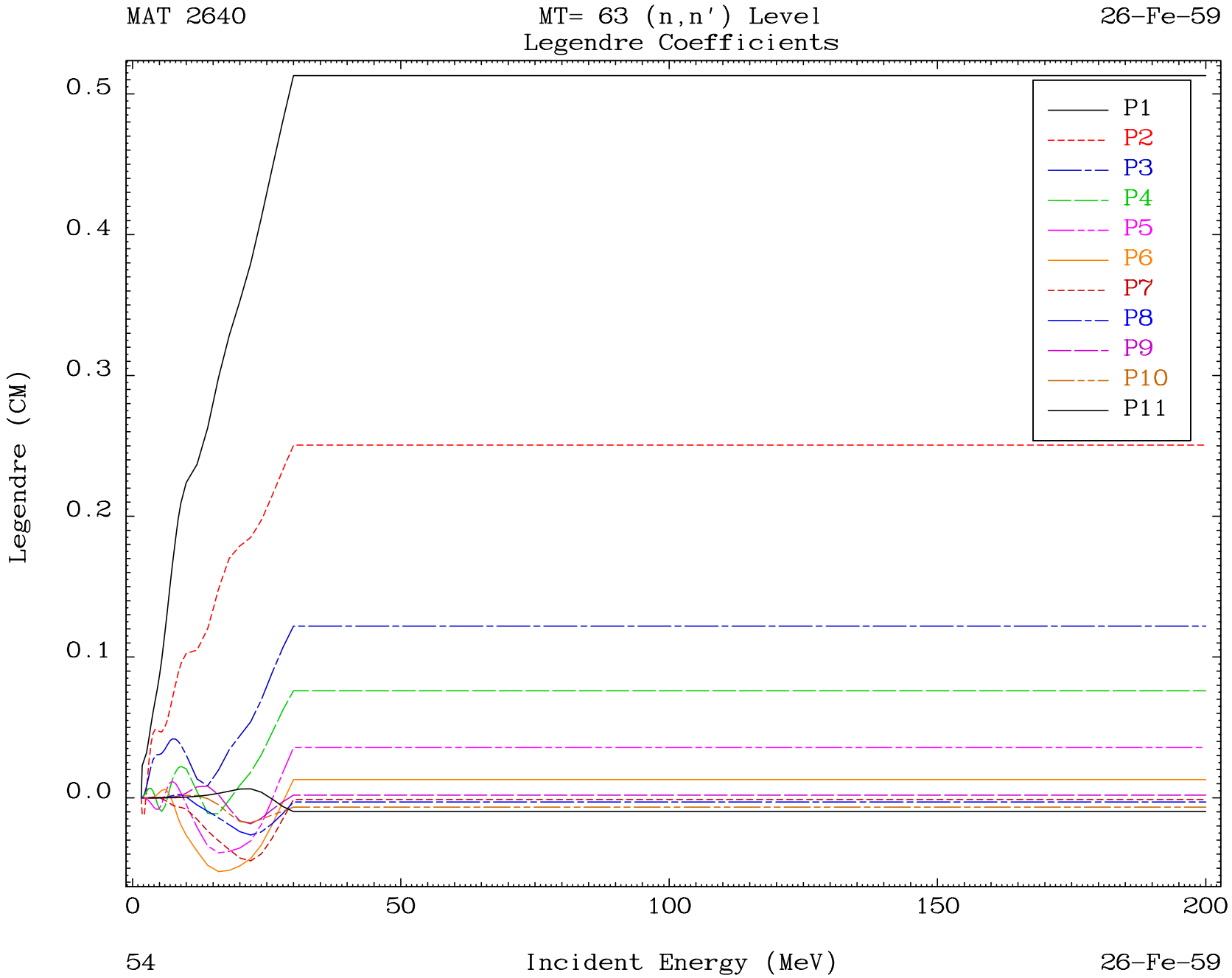

MAT 2640
MT= 61 (n,n') Level
Legendre Coefficients
26-Fe-59
P12
P13
P14
P15
P16
P17
P18
P19
P20
P21
P22
0.03
0.02
0.01
0.00
Legendre (CM)
0
50
100
150
200
49
Incident Energy (MeV)
26-Fe-59

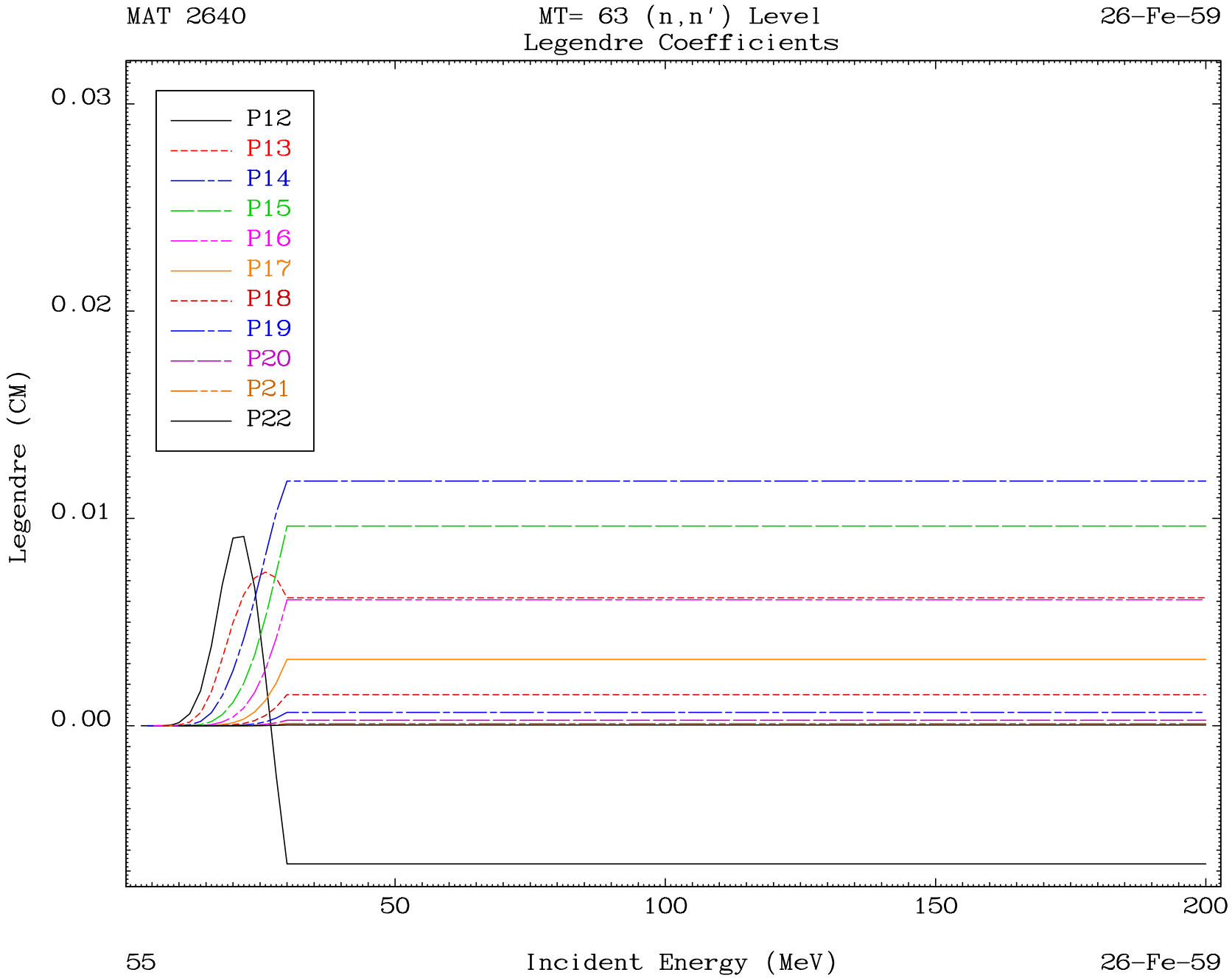

MAT 2640
MT= 61 (n,n') Level
Legendre Coefficients
26-Fe-59
X10-5
1.5
1.0
0.5
0.0
Legendre (CM)
50
100
150
200
50
Incident Energy (MeV)
26-Fe-59
P23
P24
P25
P26
P27
P28
P29
P30
P31
P32

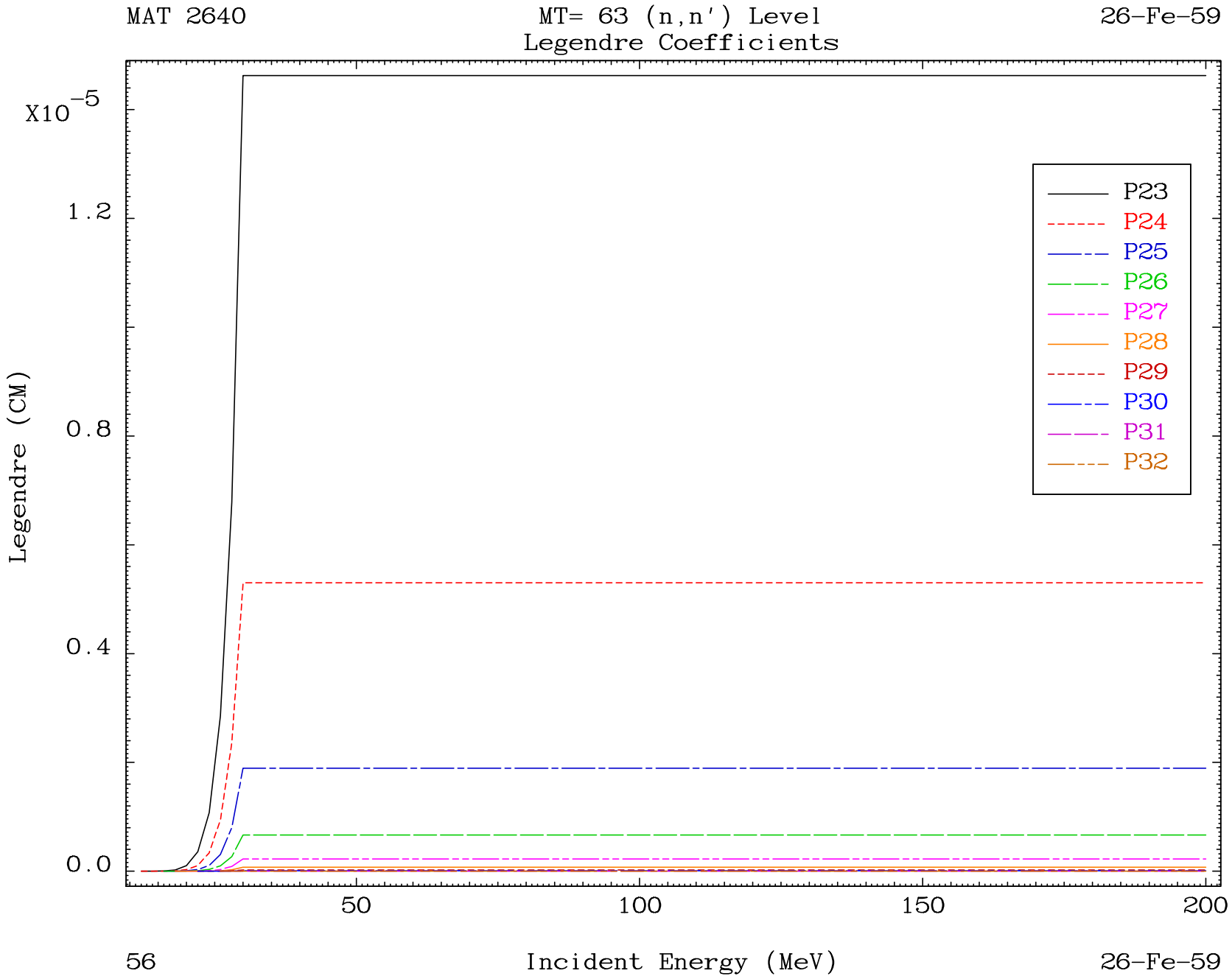

MAT 2640
MT= 62 (n,n') Level
Legendre Coefficients
26-Fe-59
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11
51
Incident Energy (MeV)
26-Fe-59

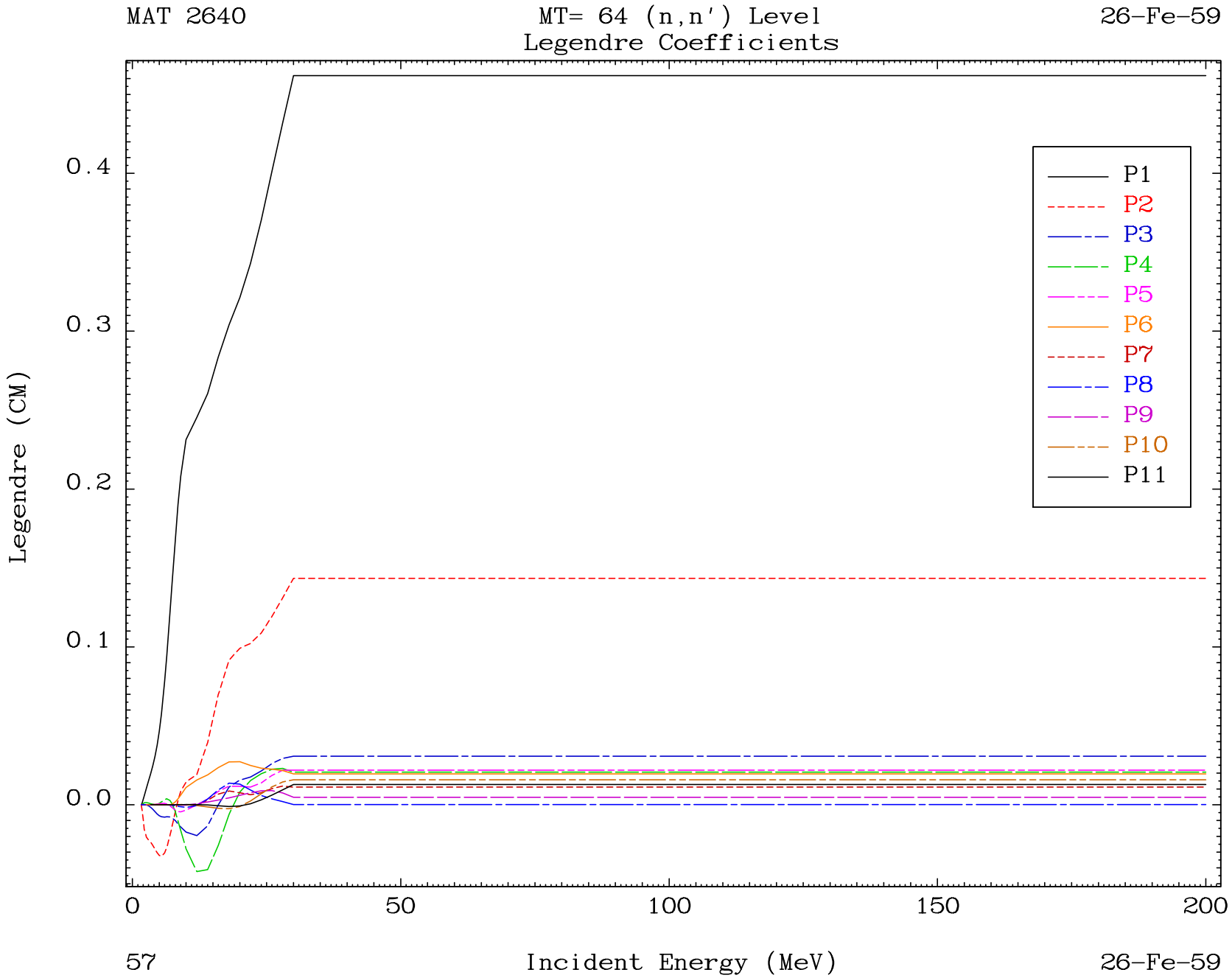

MAT 2640
MT= 62 (n,n') Level
Legendre Coefficients
26-Fe-59
0.000
-0.001
-0.002
-0.003
Legendre (CM)l
50
100
150
200
P12
P13
P14
P15
P16
P17
P18
P19
P20
P21
P22
52
Incident Energy (MeV)
26-Fe-59

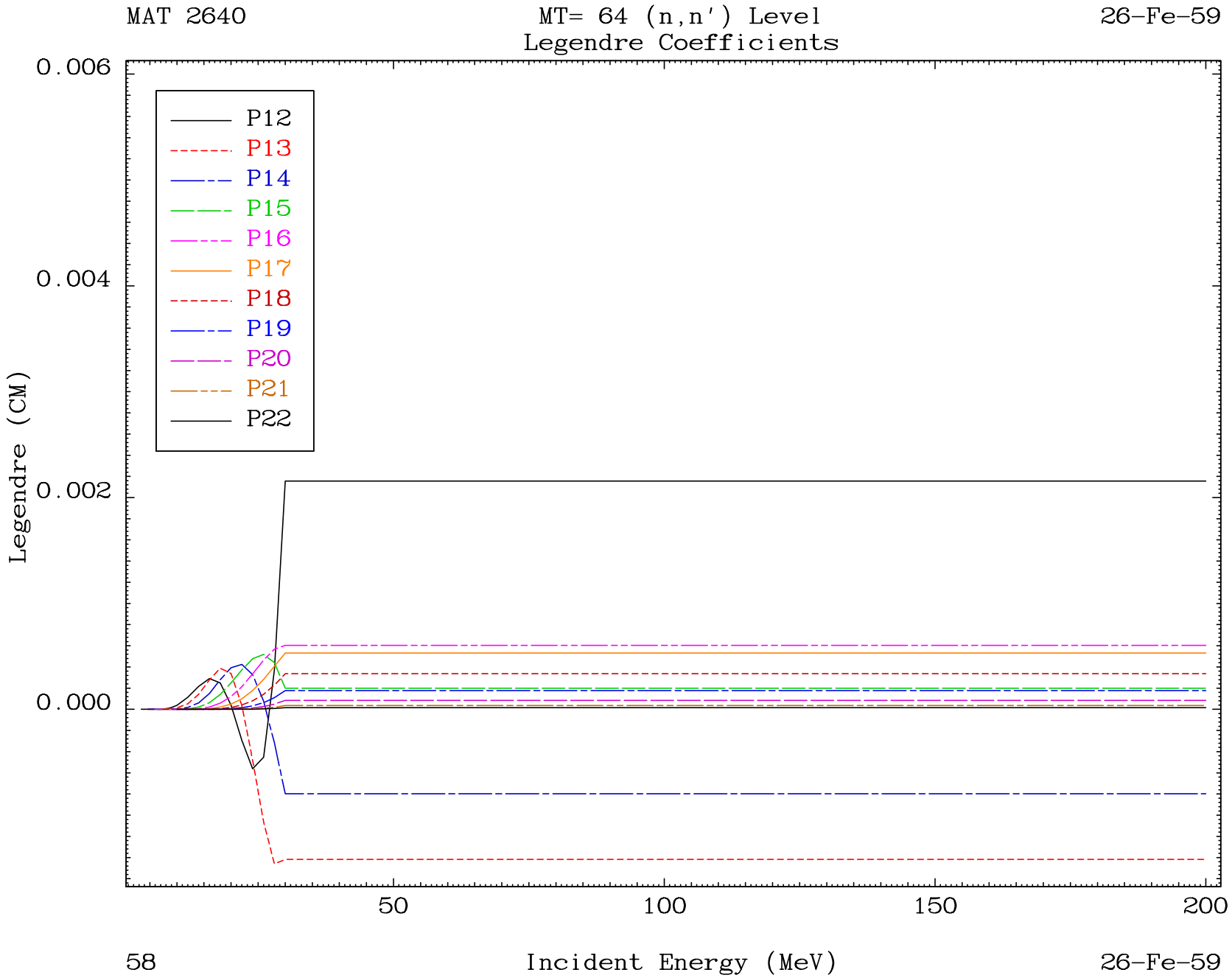

MAT 2640
MT= 62 (n,n') Level
Legendre Coefficients
26-Fe-59
0.0
X10^-6
-0.5
-1.0
-1.5
-2.0
-2.5
Legendre (CM)
50
100
150
200
53
Incident Energy (MeV)
26-Fe-59
P23
P24
P25
P26
P27
P28
P29
P30
P31
P32

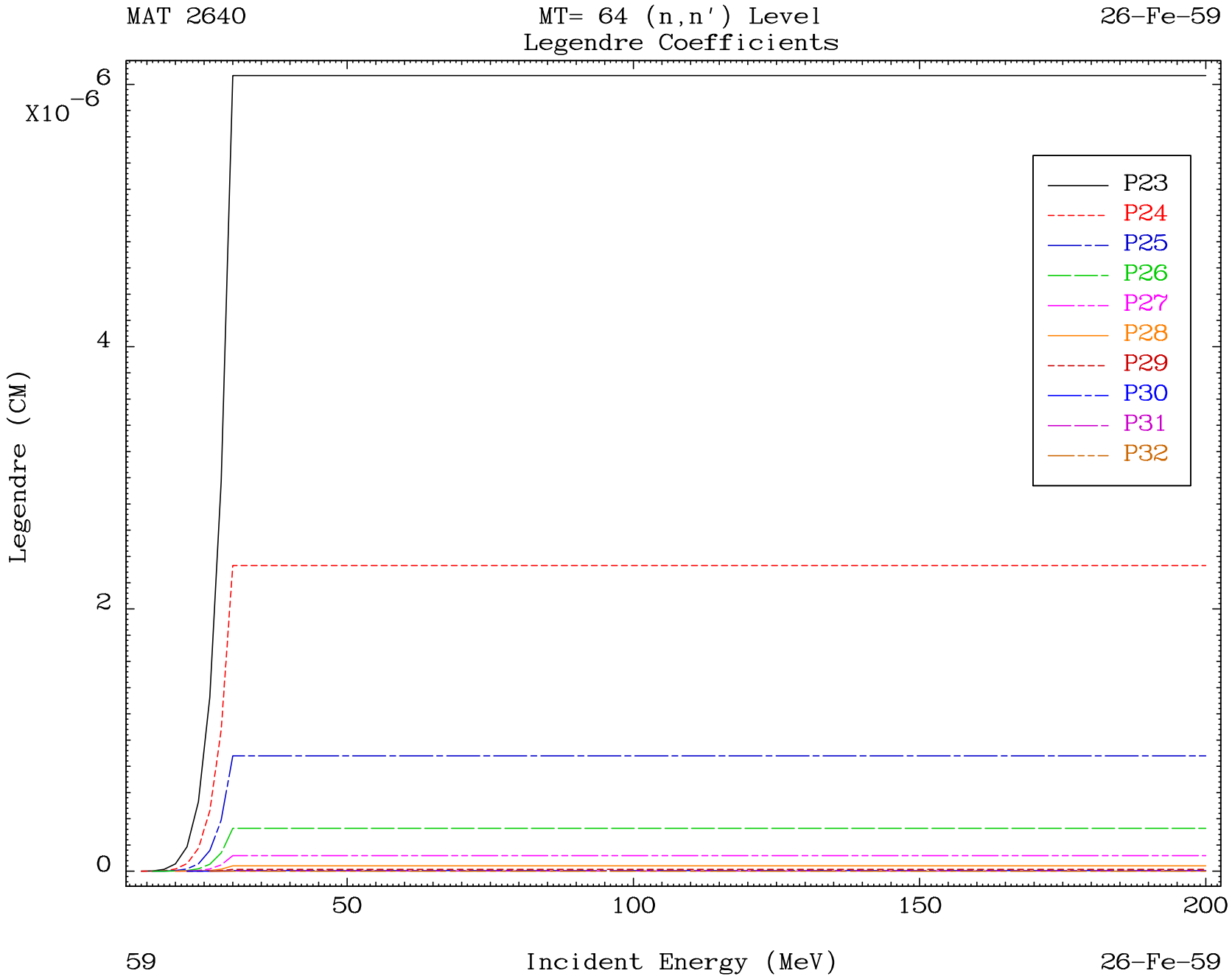

MAT 2640
MT= 63 (n,n') Level
Legendre Coefficients
26-Fe-59
Legendre (CM)
0.5
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11
54
Incident Energy (MeV)
26-Fe-59

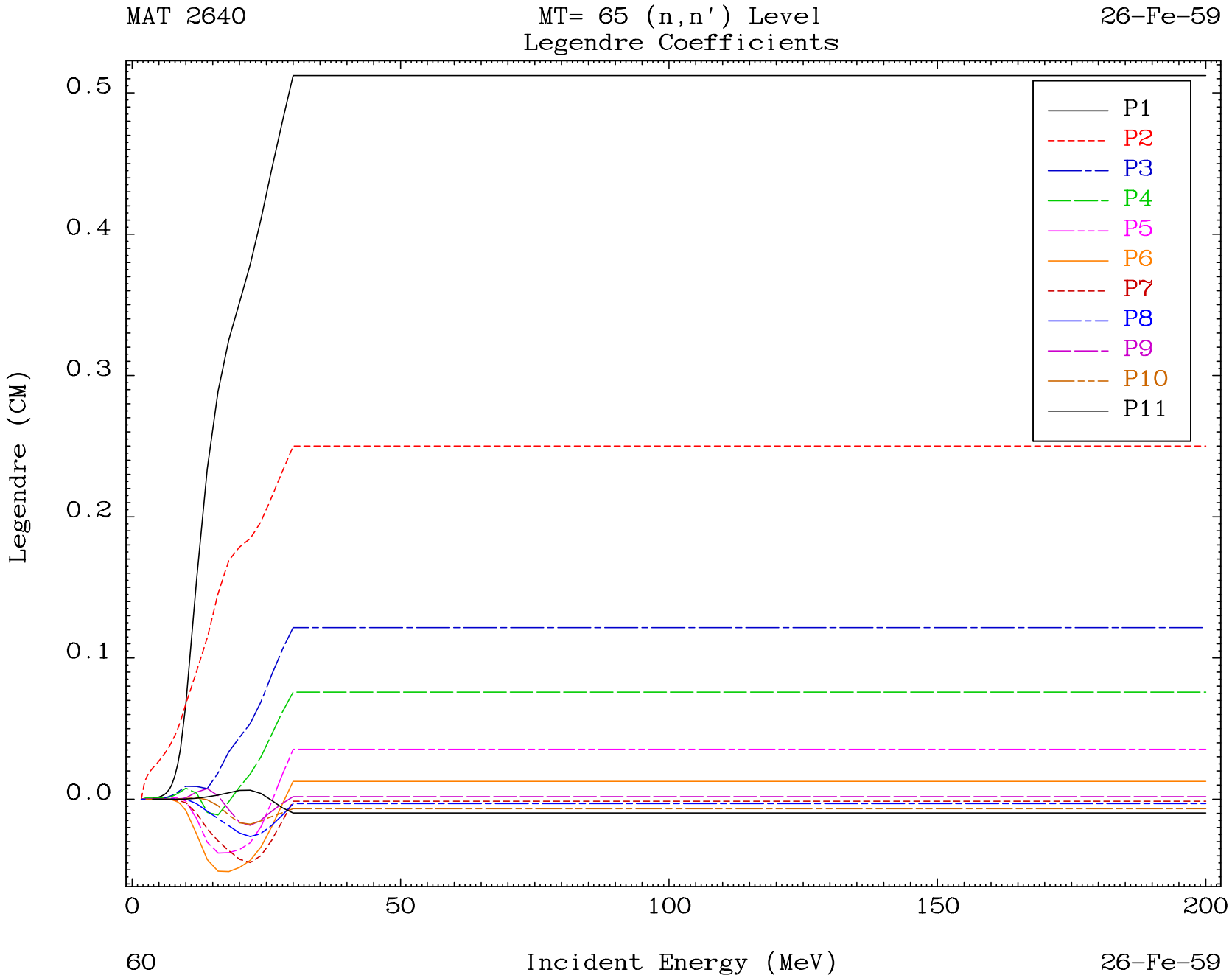

MAT 2640
MT= 63 (n,n') Level
Legendre Coefficients
26-Fe-59
P12
P13
P14
P15
P16
P17
P18
P19
P20
P21
P22
0.03
0.02
0.01
0.00
Legendre (CM)
50
100
150
200
55
Incident Energy (MeV)
26-Fe-59

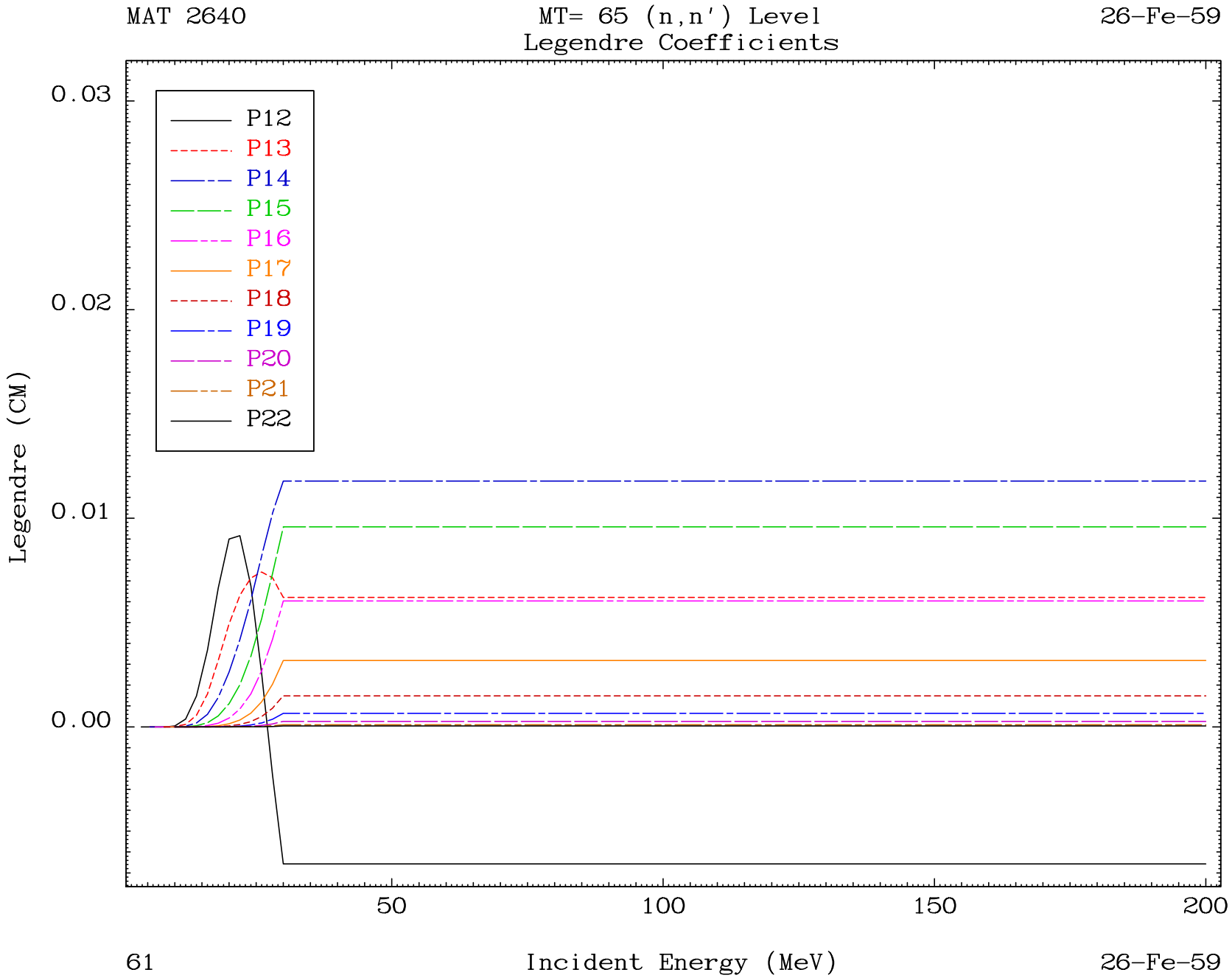

MAT 2640
MT= 63 (n,n') Level
Legendre Coefficients
26-Fe-59
X10-5
1.2
0.8
0.4
0.0
Legendre (CM)
P23
P24
P25
P26
P27
P28
P29
P30
P31
P32
50
100
150
200
56
Incident Energy (MeV)
26-Fe-59

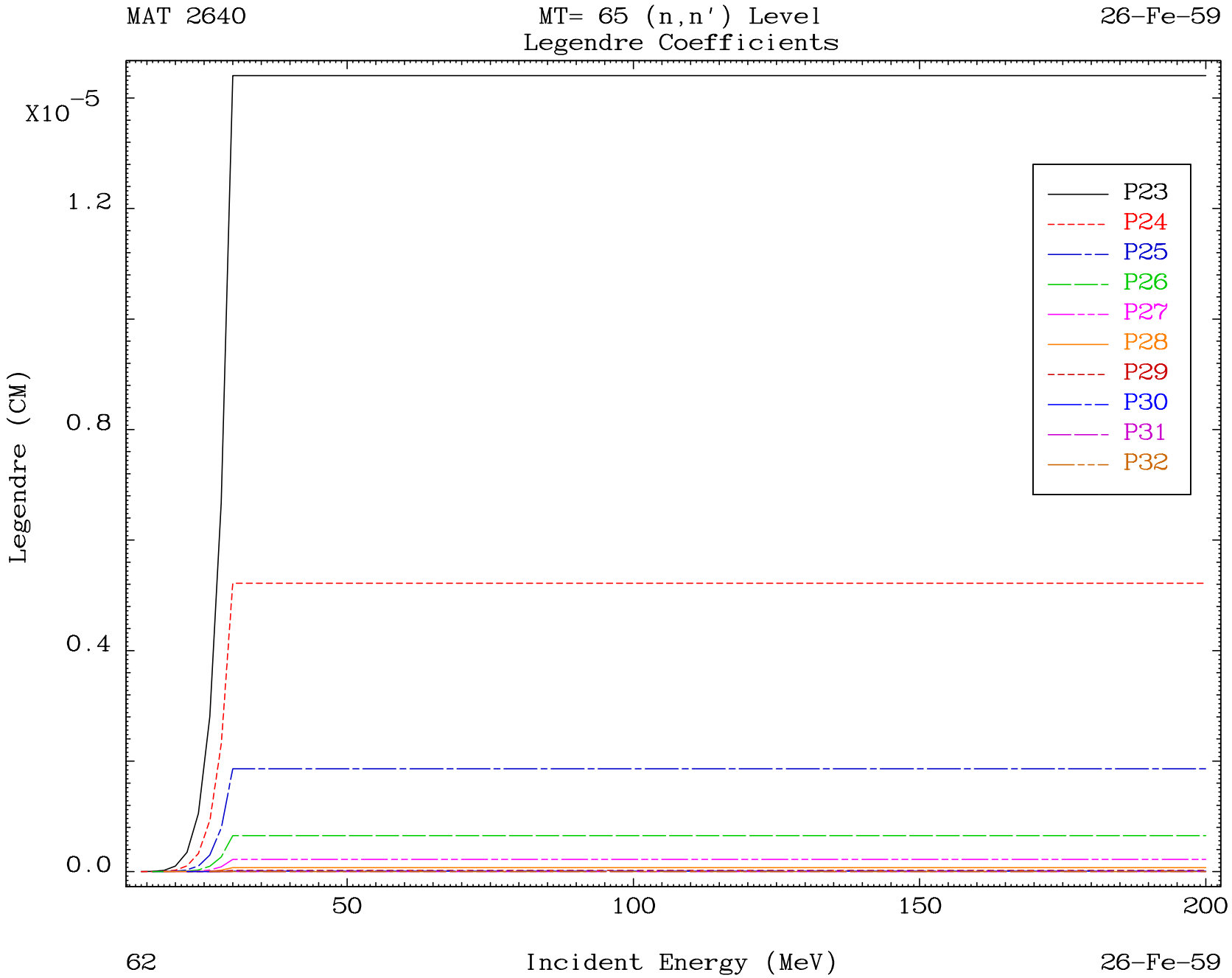

MAT 2640
MT= 64 (n,n') Level
Legendre Coefficients
26-Fe-59
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
Incident Energy (MeV)
57
26-Fe-59
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11

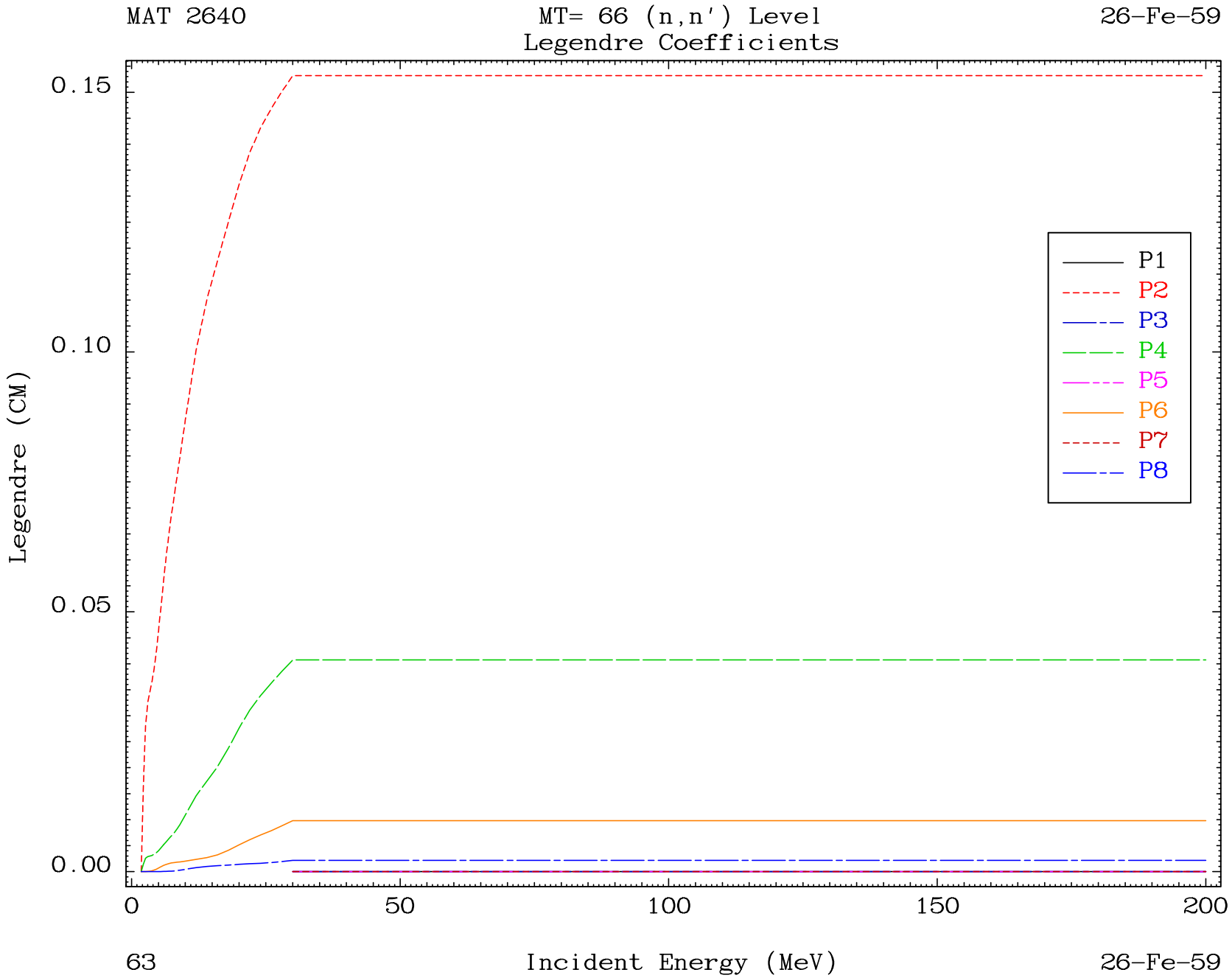

MAT 2640
MT= 64 (n,n') Level
Legendre Coefficients
26-Fe-59
0.006
0.004
0.002
0.000
Legendre (CM)
P12
P13
P14
P15
P16
P17
P18
P19
P20
P21
P22
50
100
150
200
58
Incident Energy (MeV)
26-Fe-59

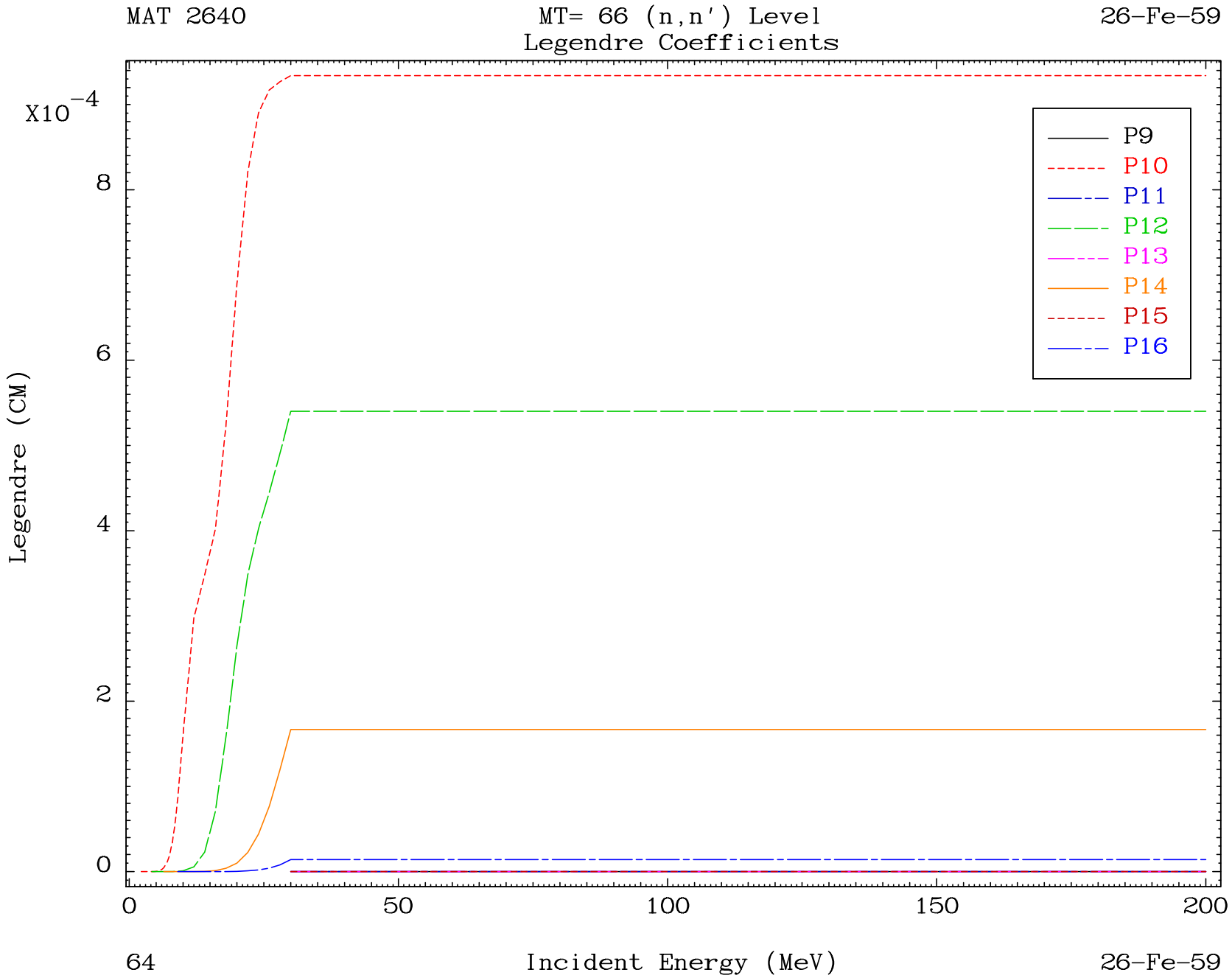

MAT 2640
MT= 64 (n,n') Level
Legendre Coefficients
26-Fe-59
X10 -6
6
4
2
0
Legendre (CM)
50
100
150
200
59
Incident Energy (MeV)
26-Fe-59
P23
P24
P25
P26
P27
P28
P29
P30
P31
P32

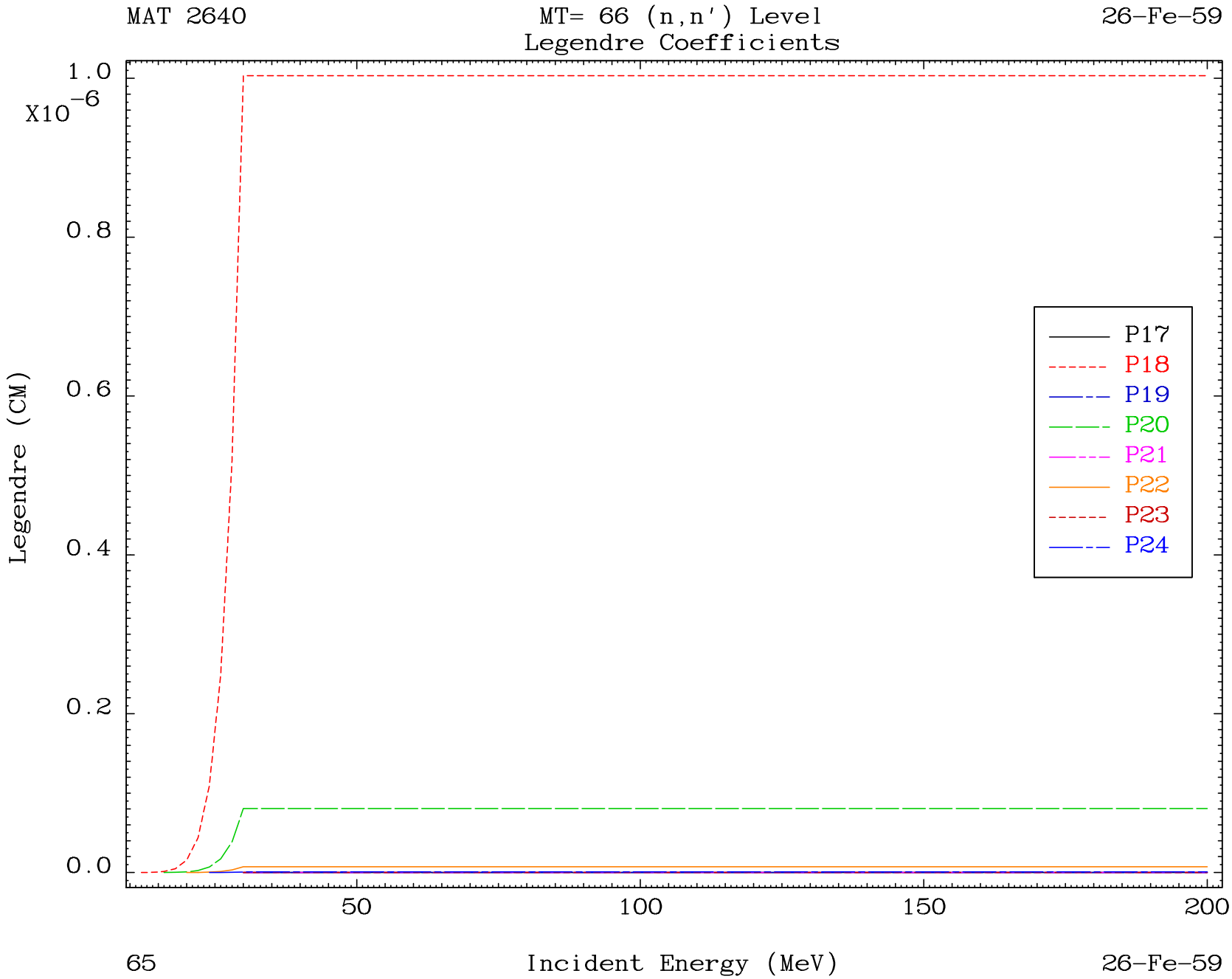

MAT 2640
MT= 65 (n,n') Level
Legendre Coefficients
26-Fe-59
Legendre (CM)
0.5
0.4
0.3
0.2
0.1
0.0
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11
0
50
100
150
200
60
Incident Energy (MeV)
26-Fe-59

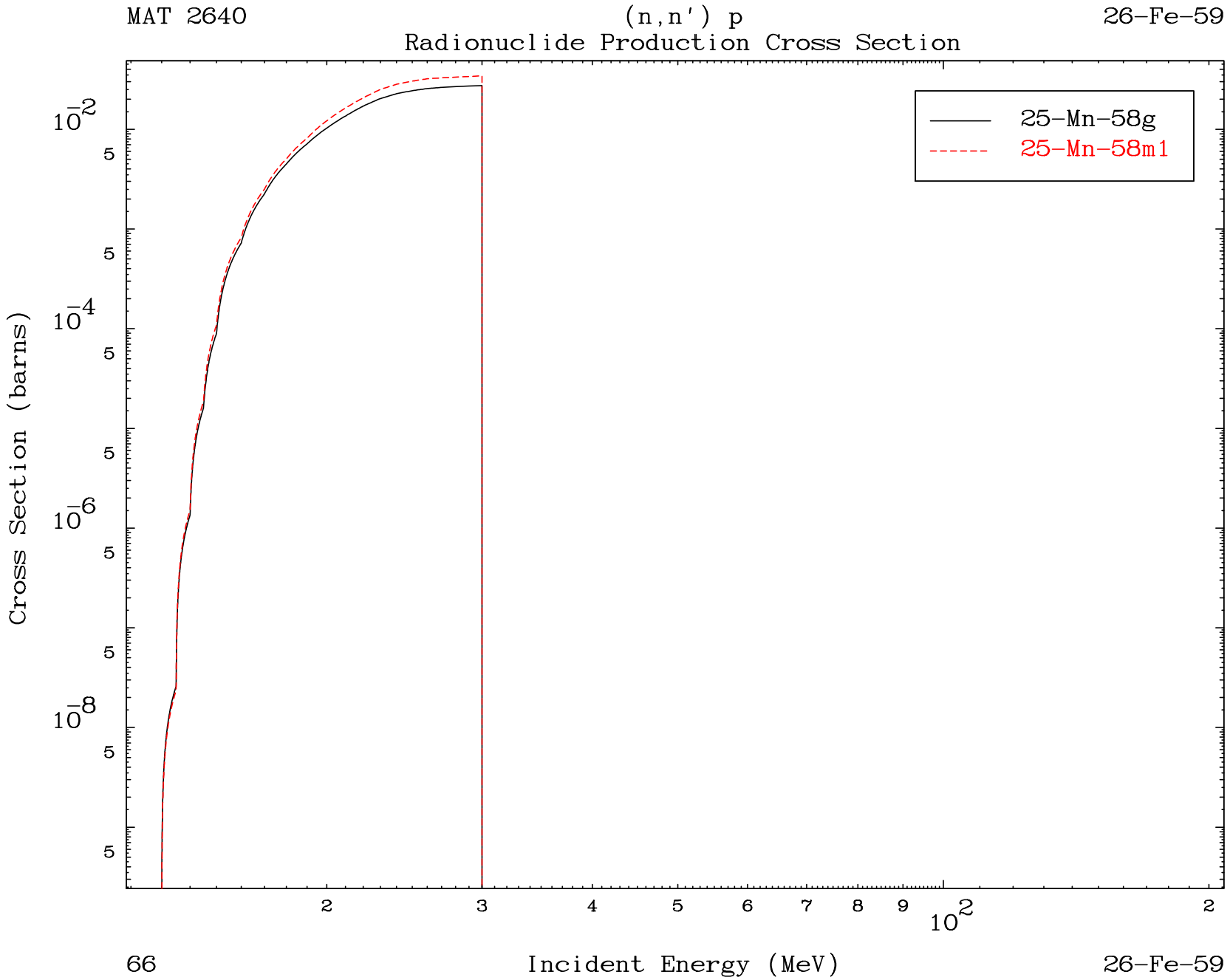

MAT 2640
MT= 65 (n,n') Level
Legendre Coefficients
26-Fe-59
P12
P13
P14
P15
P16
P17
P18
P19
P20
P21
P22
0.03
0.02
0.01
0.00
Legendre (CM)
50
100
150
200
61
Incident Energy (MeV)
26-Fe-59

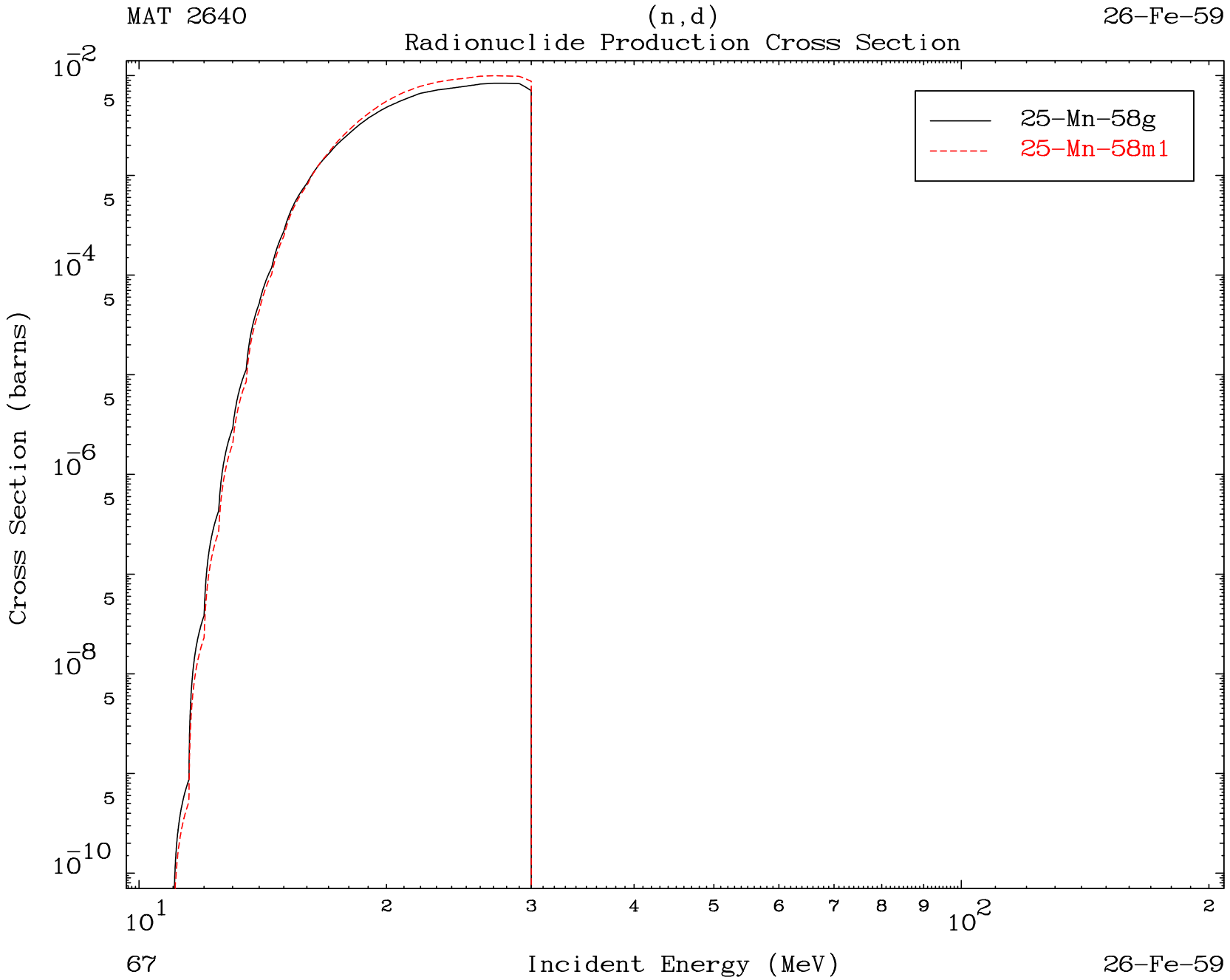

MAT 2640
MT= 65 (n,n') Level
Legendre Coefficients
26-Fe-59
X10-5
1.2
0.8
0.4
0.0
Legendre (CM)
P23
P24
P25
P26
P27
P28
P29
P30
P31
P32
50
100
150
200
62
Incident Energy (MeV)
26-Fe-59


MAT 2640
MT= 66 (n,n') Level
Legendre Coefficients
26-Fe-59
0.15
0.10
0.05
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
0
50
100
150
200
63
Incident Energy (MeV)
26-Fe-59


MAT 2640
MT= 66 (n,n') Level
Legendre Coefficients
26-Fe-59
X10^-4
8
6
4
2
0
Legendre (CM)
P9
P10
P11
P12
P13
P14
P15
P16
0
50
100
150
200
64
Incident Energy (MeV)
26-Fe-59


MAT 2640
MT= 66 (n,n') Level
Legendre Coefficients
26-Fe-59
1.0
X10-6
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
P17
P18
P19
P20
P21
P22
P23
P24
50
100
150
200
65
Incident Energy (MeV)
26-Fe-59


MAT 2640
(n,n') p
26-Fe-59
Radionuclide Production Cross Section
25-Mn-58g
25-Mn-58m1
Cross Section (barns)
10-2
10-4
10-6
10-8
5
2
3
4
5
6
7
8
9
10 2
2
66
Incident Energy (MeV)
26-Fe-59


MAT 2640
(n,d)
26-Fe-59
Radionuclide Production Cross Section
25-Mn-58g
25-Mn-58m1
Cross Section (barns)
Incident Energy (MeV)
67
26-Fe-59