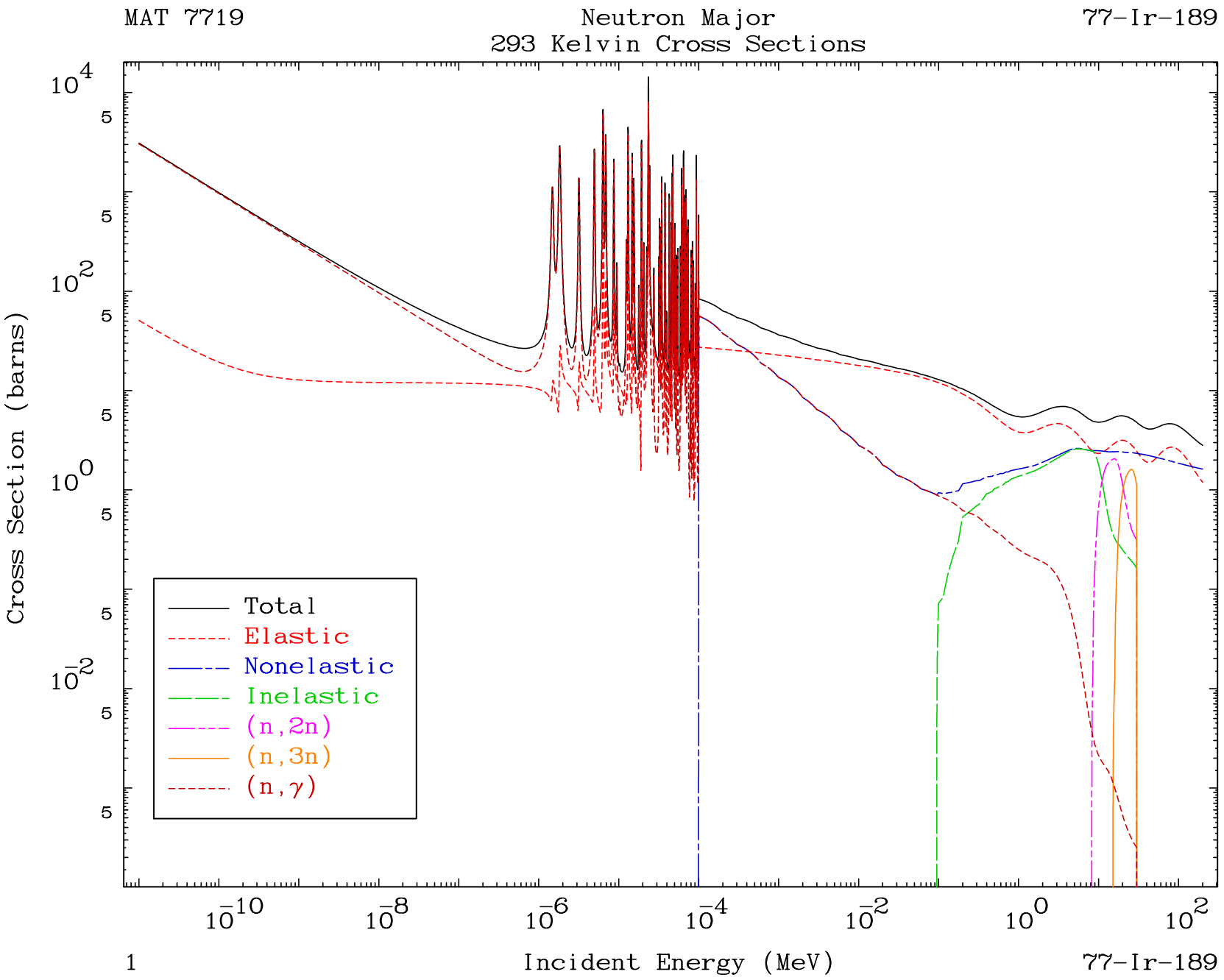
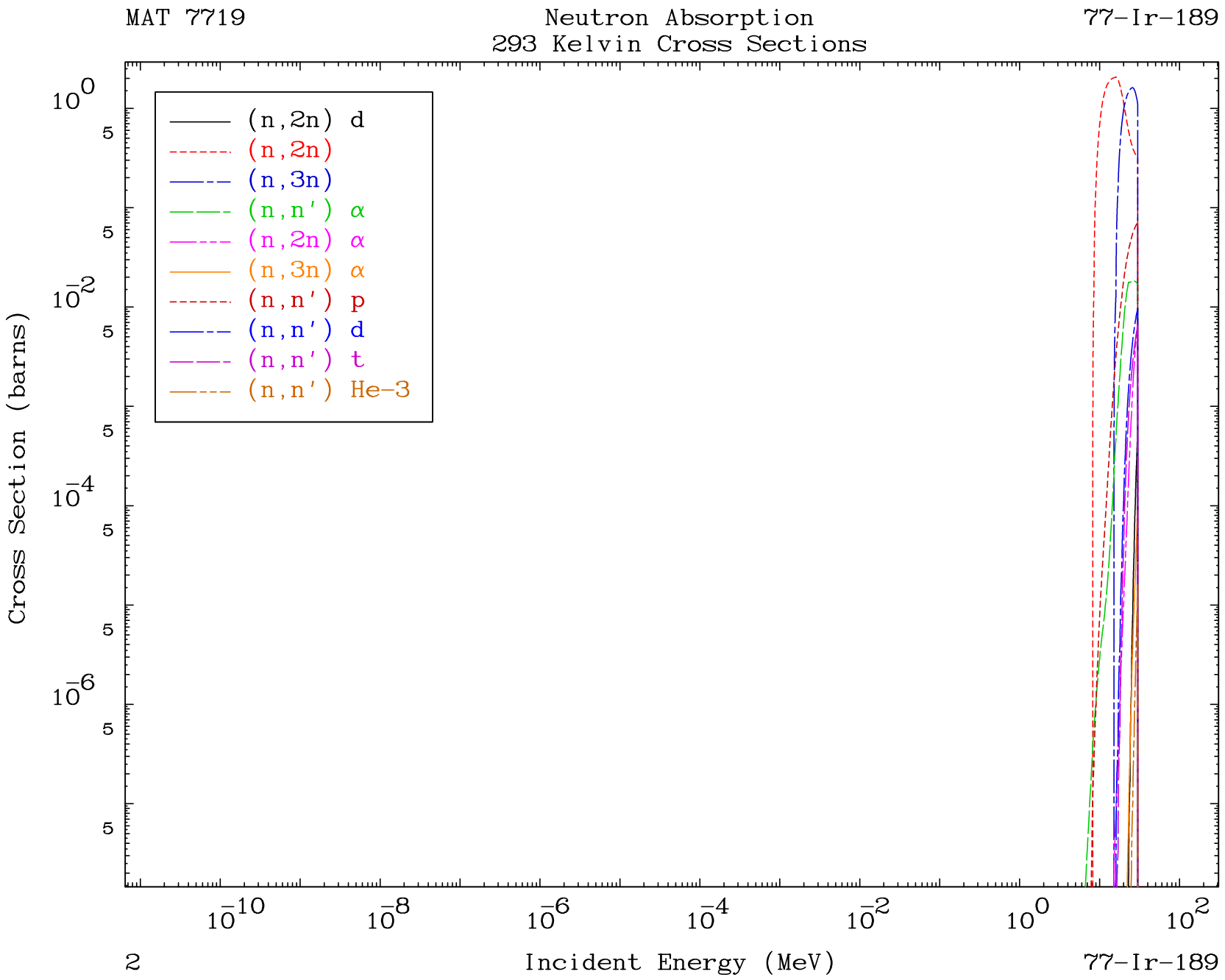
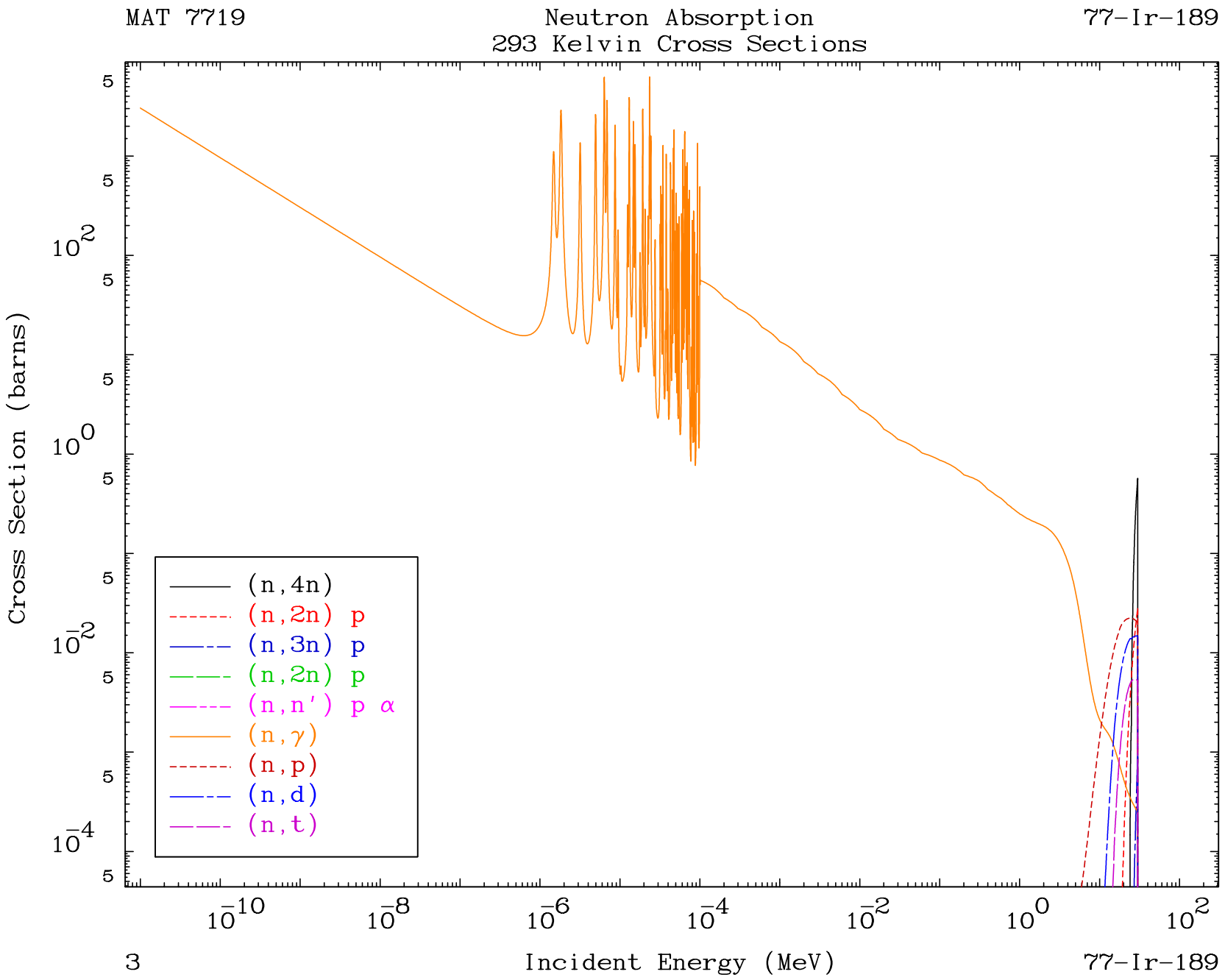
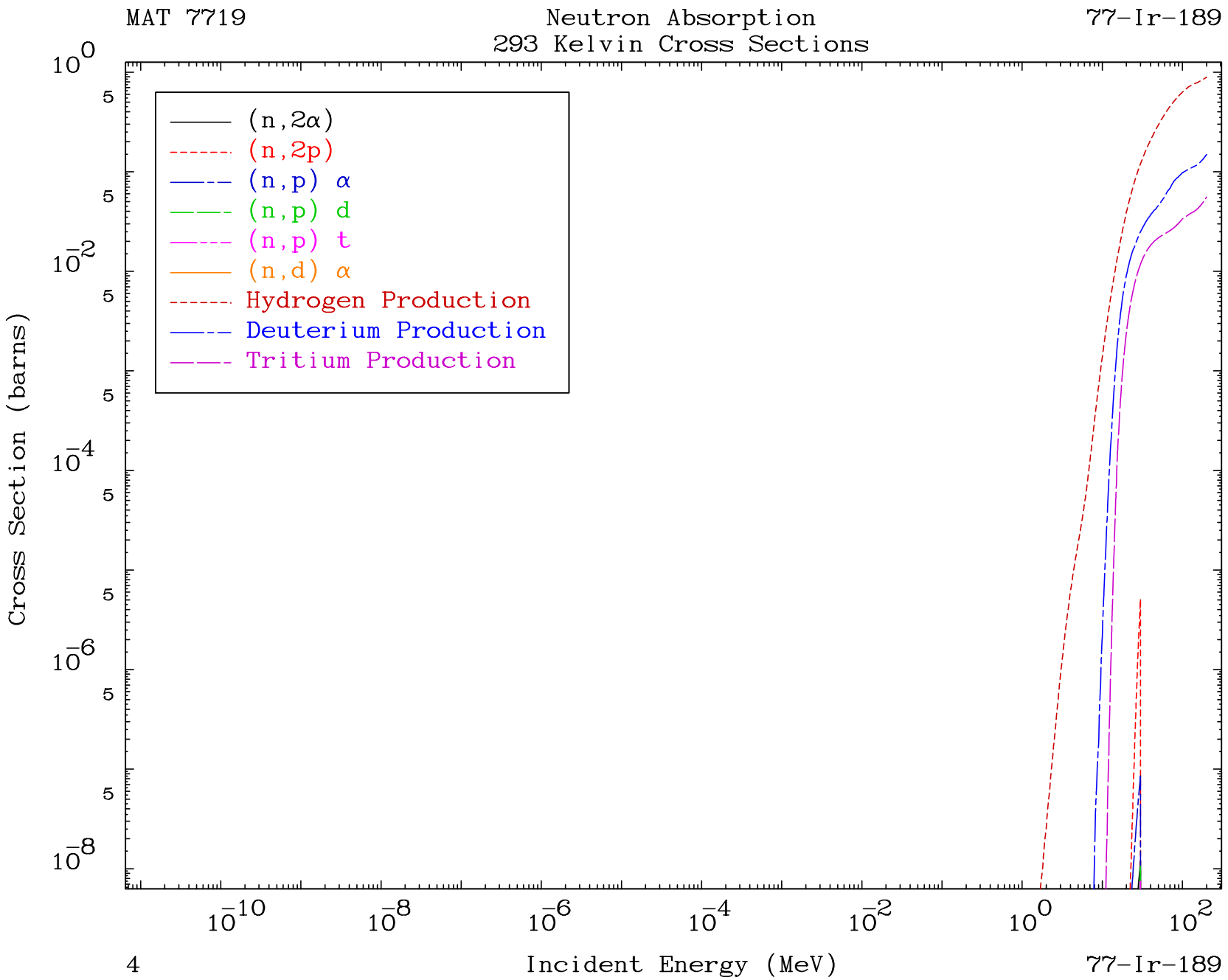
Program EVALPLOT
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

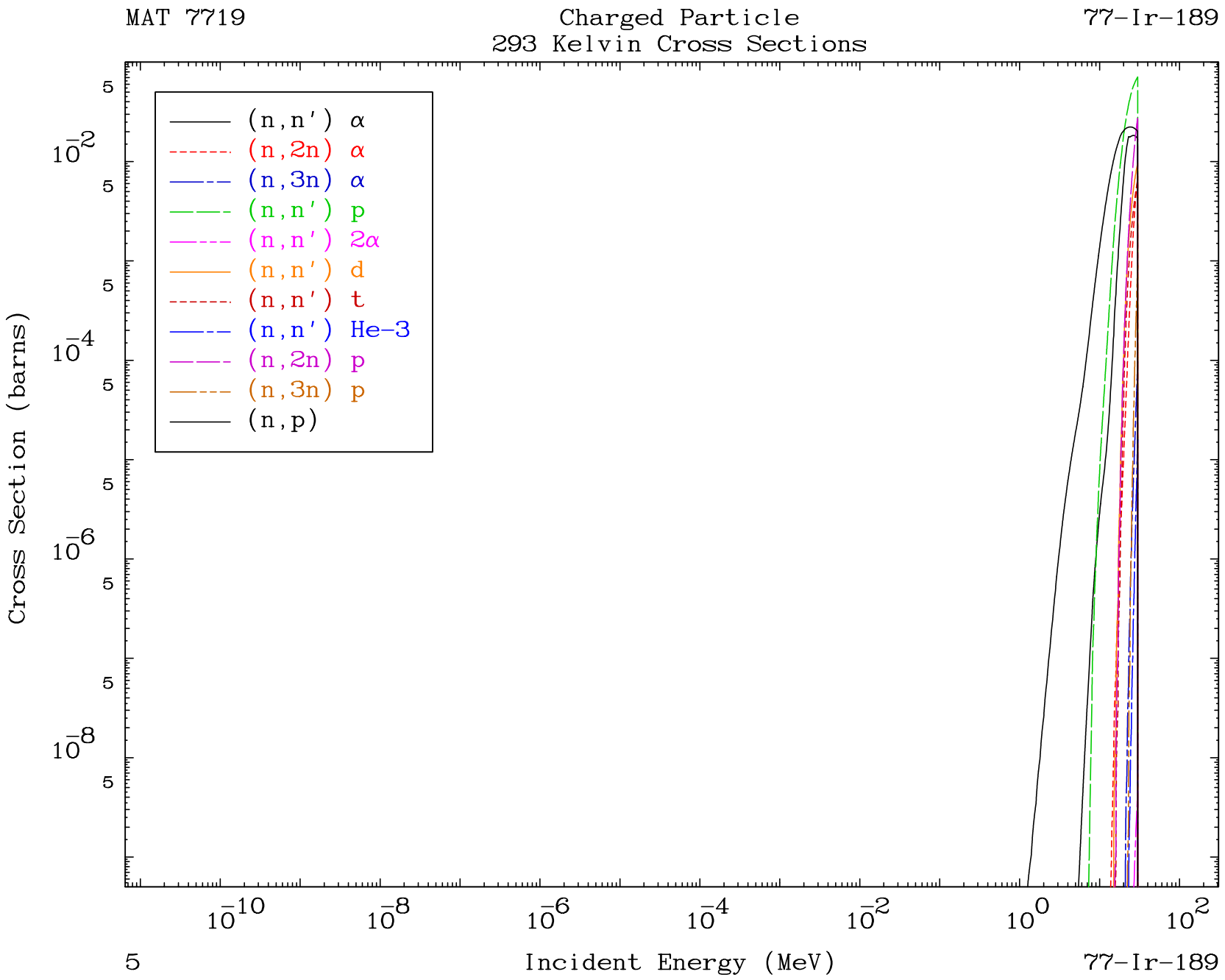
Press Mouse Button to Start

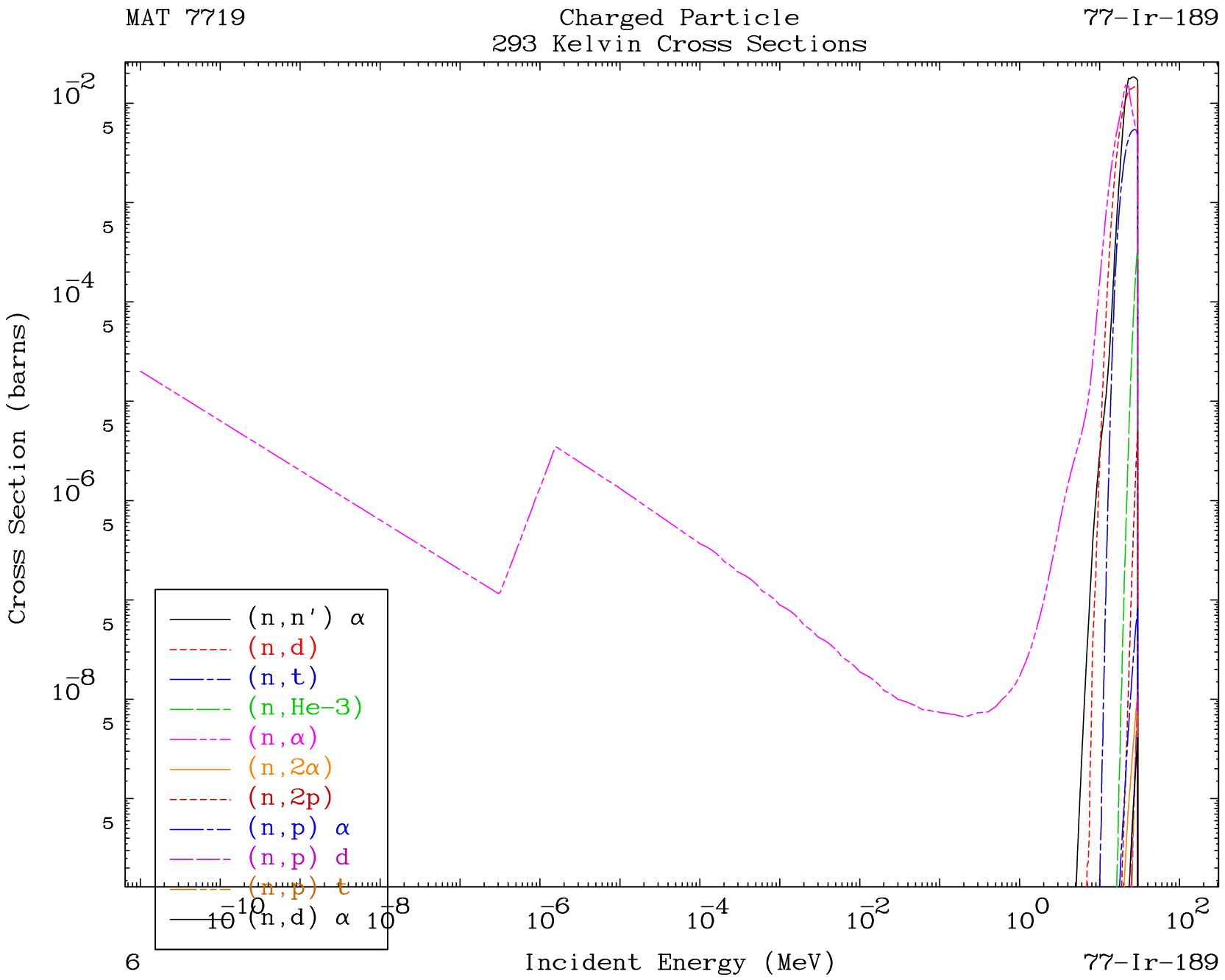

MAT 7719
Neutron Major
293 Kelvin Cross Sections
77-Ir-189
Cross Section (barns)
Incident Energy (MeV)
Total
Elastic
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)
1
77-Ir-189

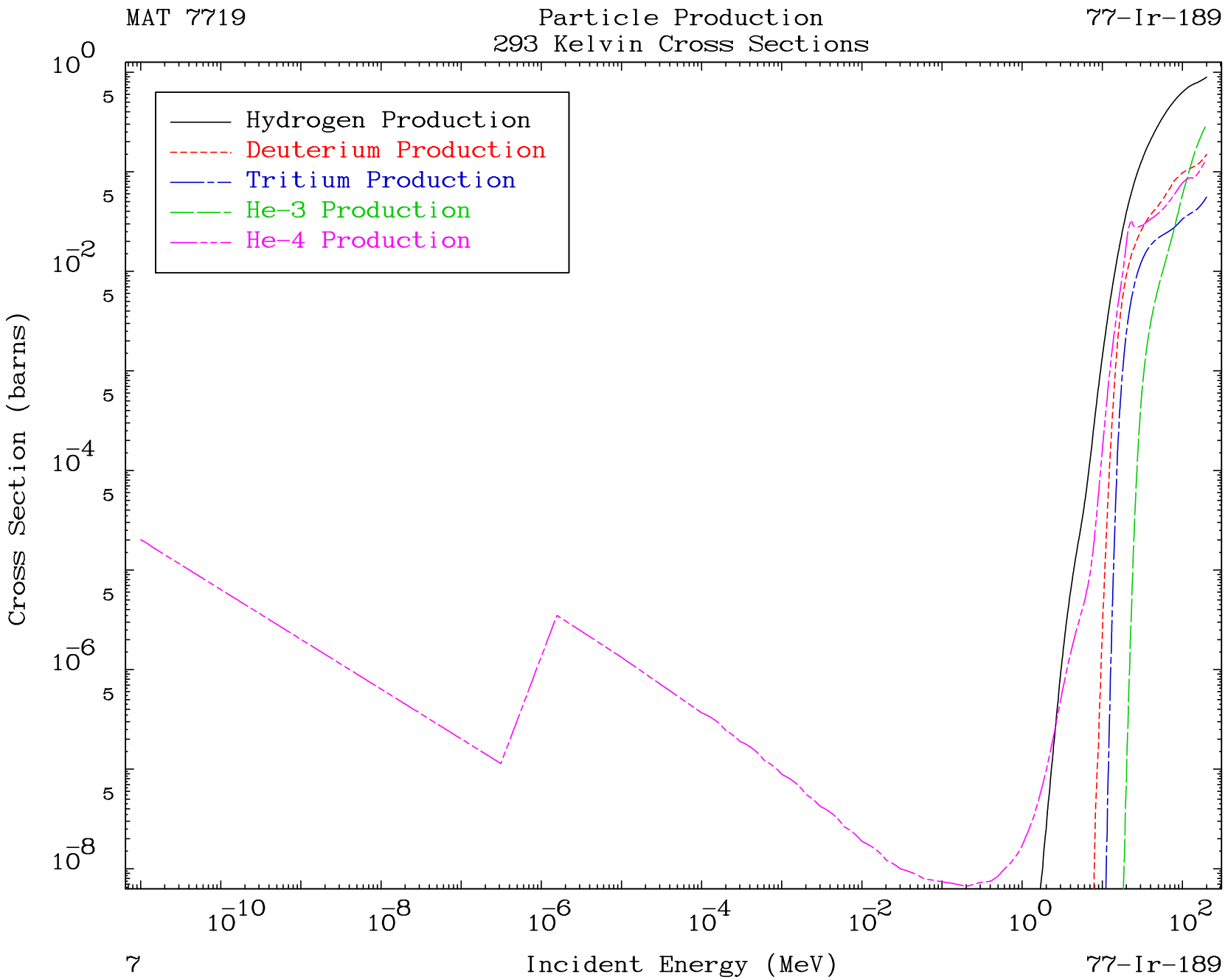

MAT 7719
Neutron Absorption
293 Kelvin Cross Sections
77-Ir-189
(n,2n) d
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') d
(n,n') t
(n,n') He-3
Cross Section (barns)
Incident Energy (MeV)
2
77-Ir-189

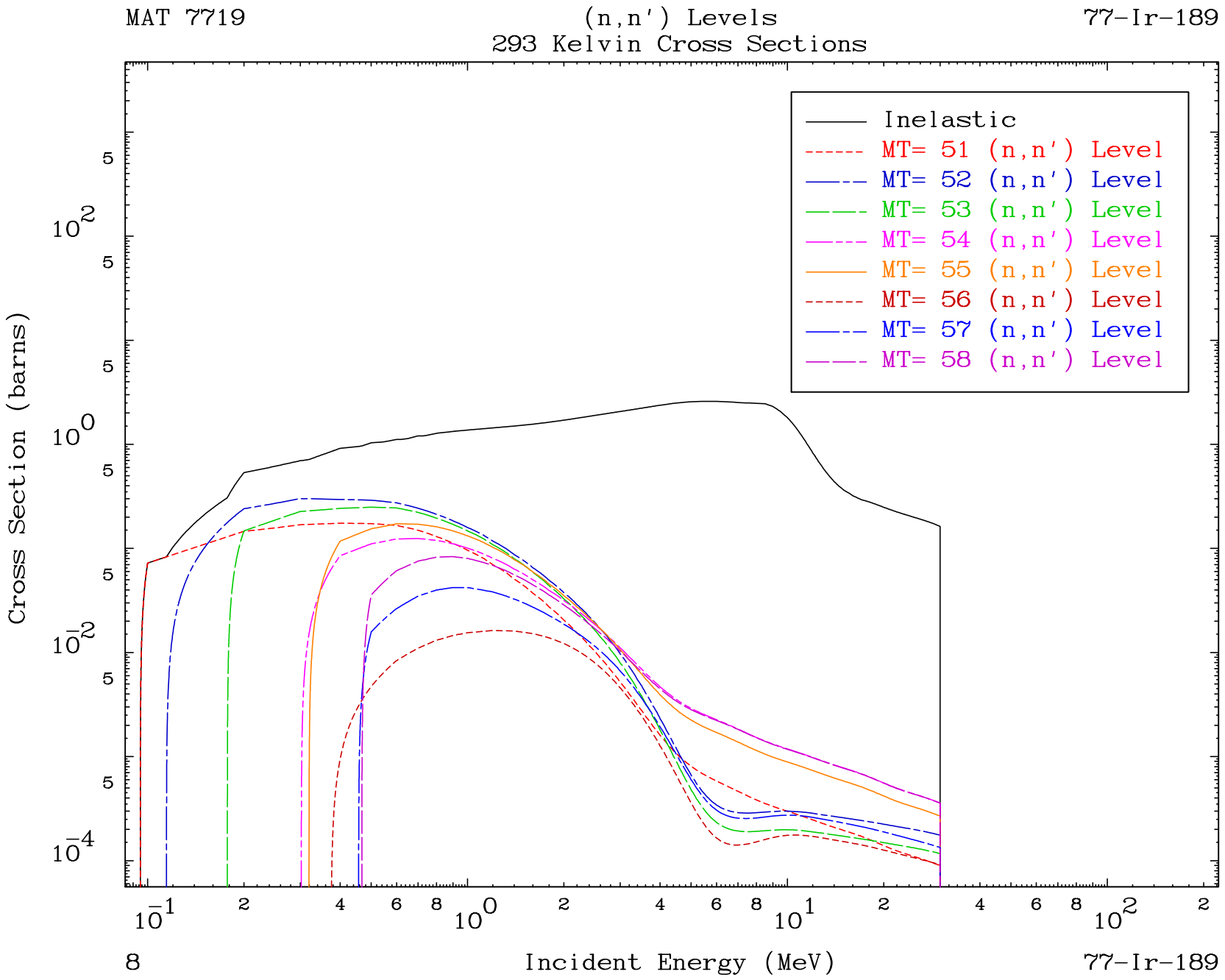

MAT 7719
Neutron Absorption
293 Kelvin Cross Sections
77-Ir-189
Cross Section (barns)
Incident Energy (MeV)
(n,4n)
(n,2n) p
(n,3n) p
(n,2n) p
(n,n') p α
(n,γ)
(n,p)
(n,d)
(n,t)
3
77-Ir-189

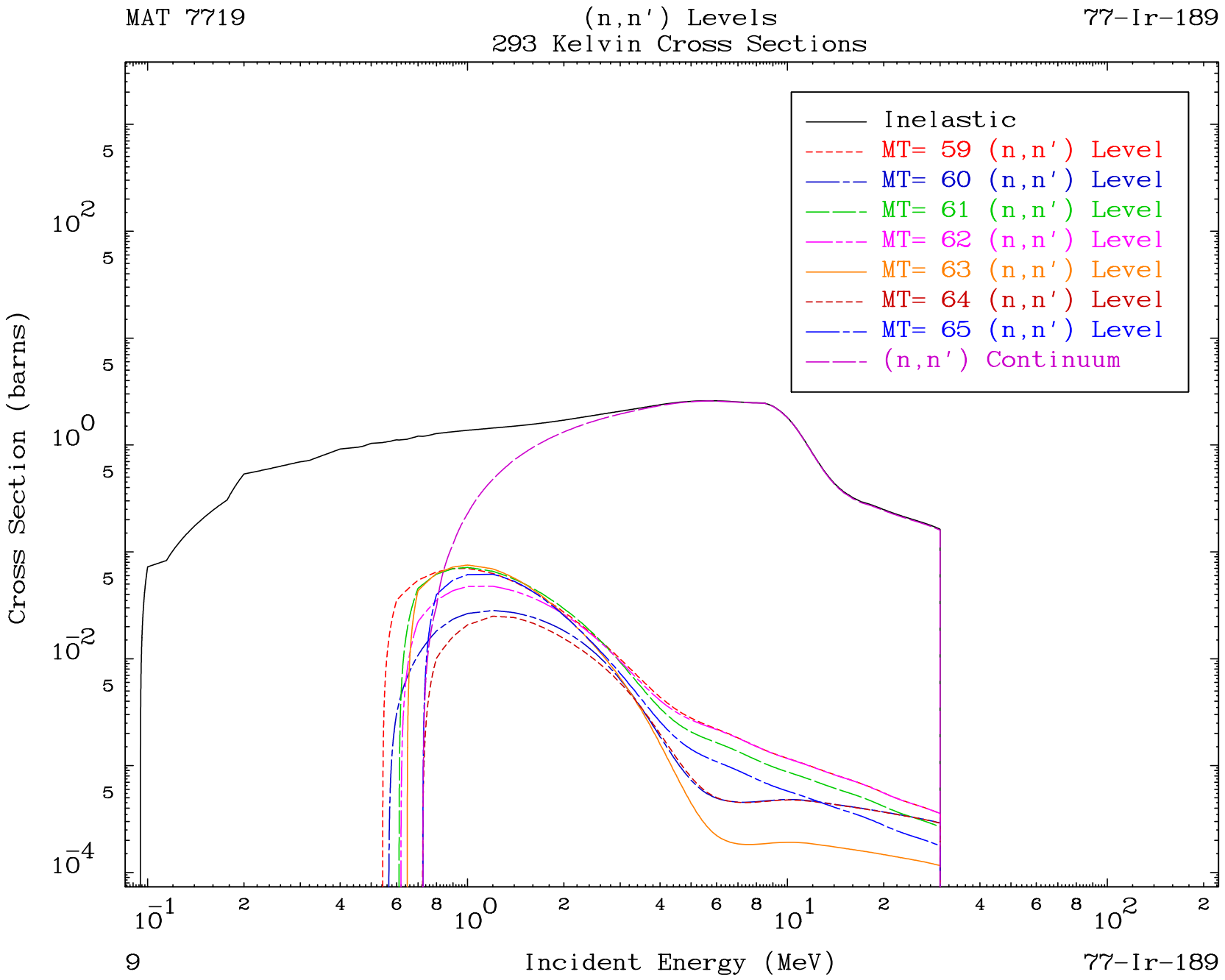

MAT 7719
Neutron Absorption
293 Kelvin Cross Sections
77-Ir-189
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Hydrogen Production
Deuterium Production
Tritium Production
Cross Section (barns)
Incident Energy (MeV)
4
77-Ir-189

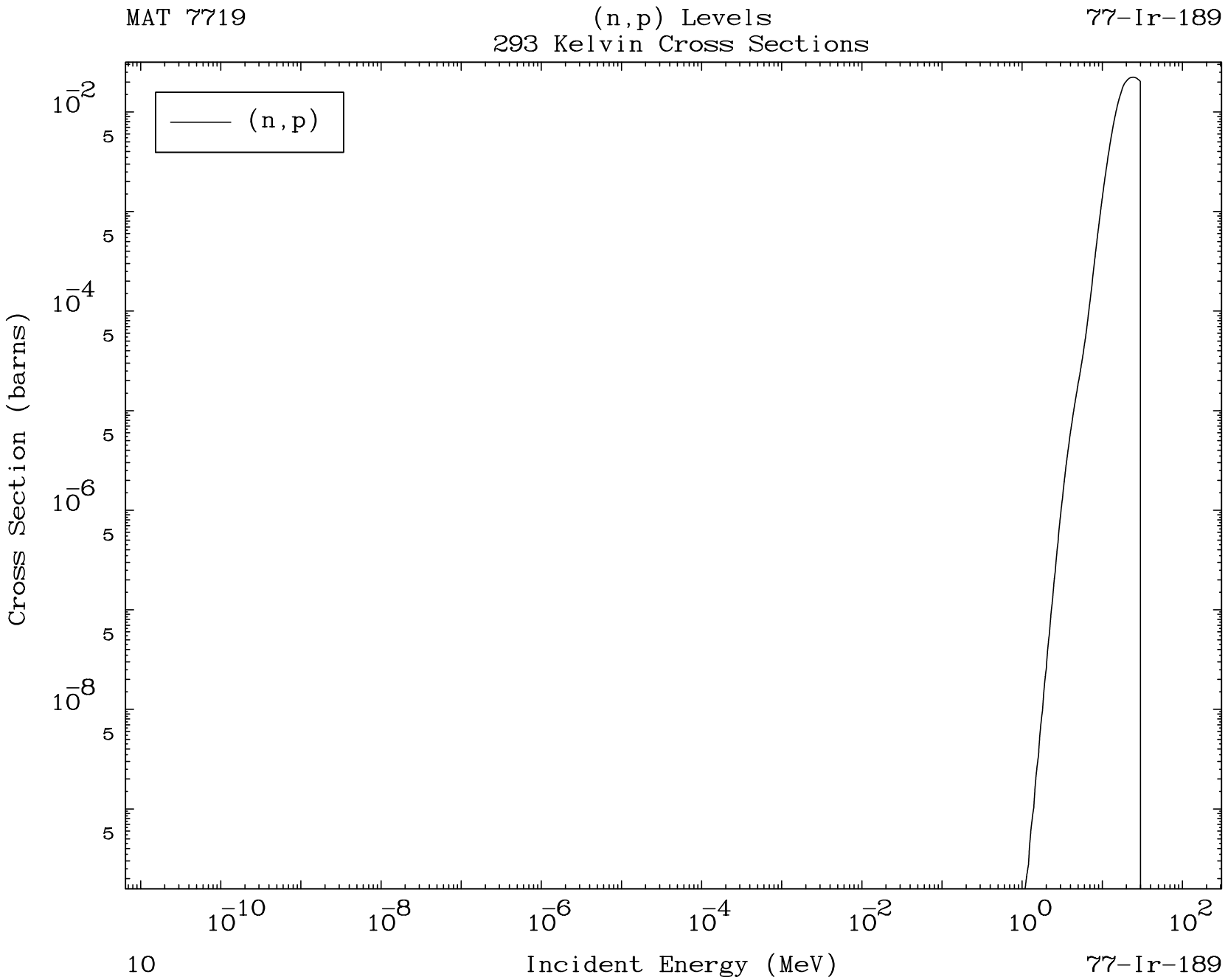

MAT 7719
Charged Particle
77-Ir-189
293 Kelvin Cross Sections
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
(n,3n) p
(n,p)
Cross Section (barns)
Incident Energy (MeV)
77-Ir-189

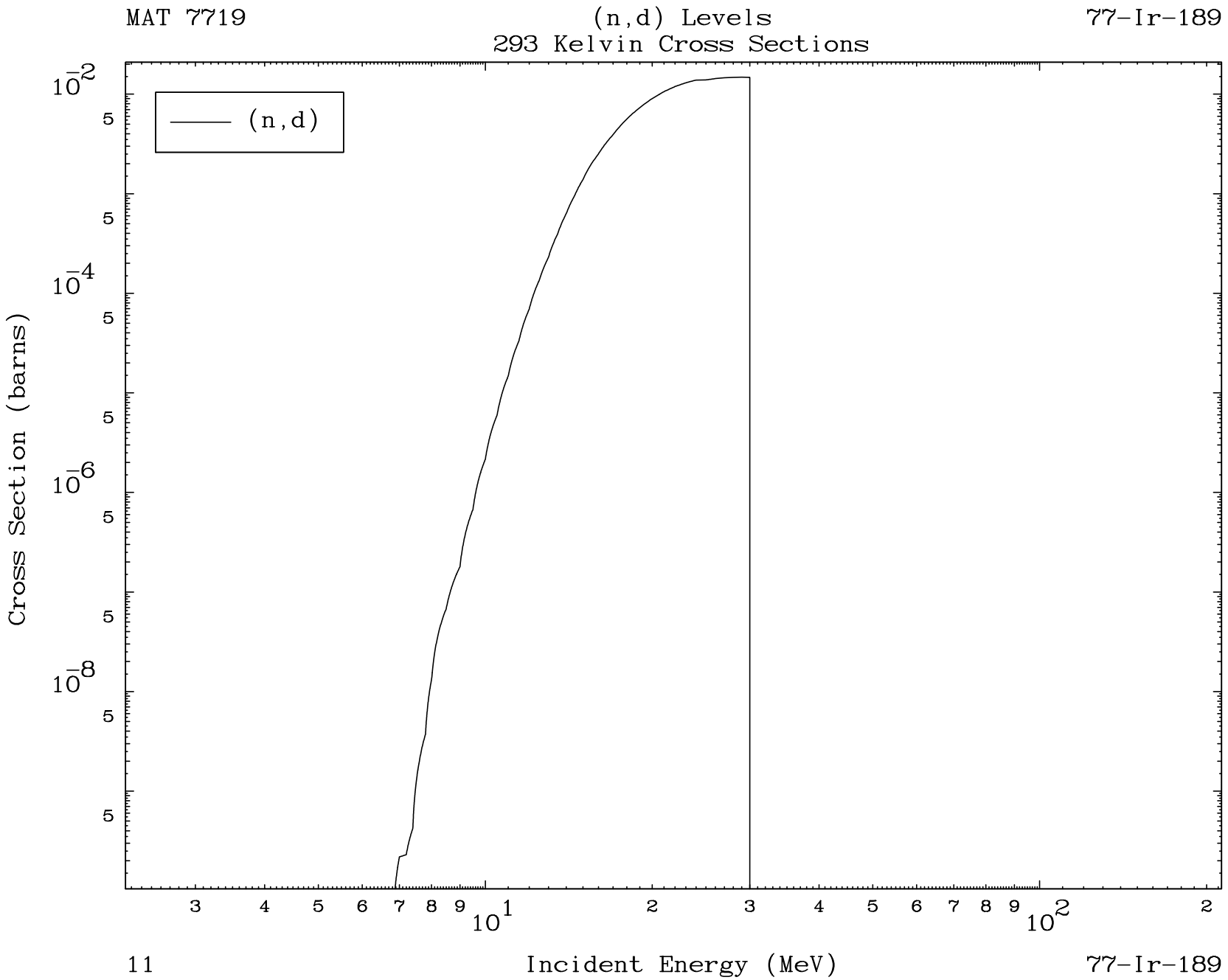

MAT 7719
Charged Particle
293 Kelvin Cross Sections
77-Ir-189
Cross Section (barns)
Incident Energy (MeV)
77-Ir-189
(n,n') α
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α

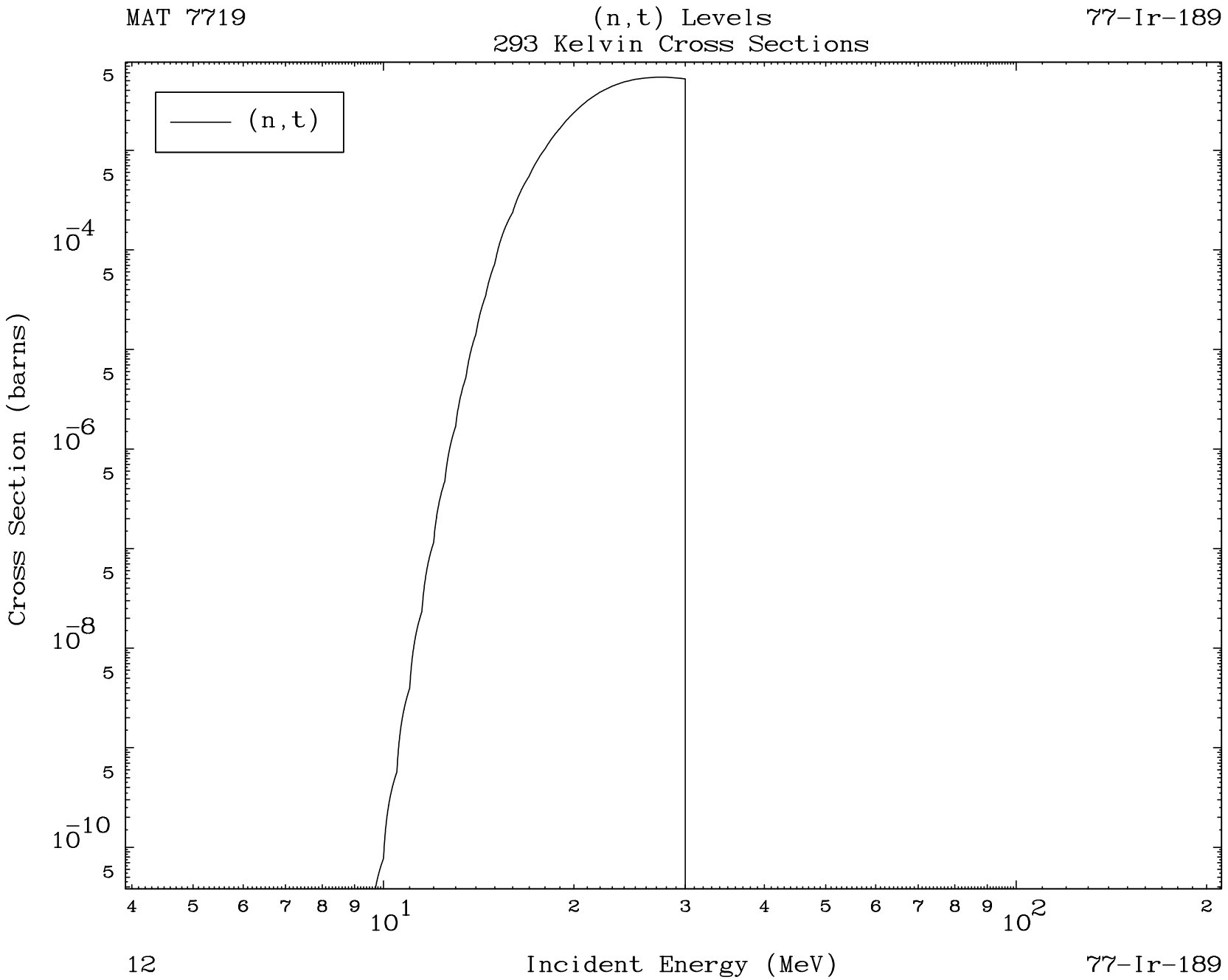

MAT 7719
Particle Production
293 Kelvin Cross Sections
77-Ir-189
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production
Cross Section (barns)
Incident Energy (MeV)
7
77-Ir-189

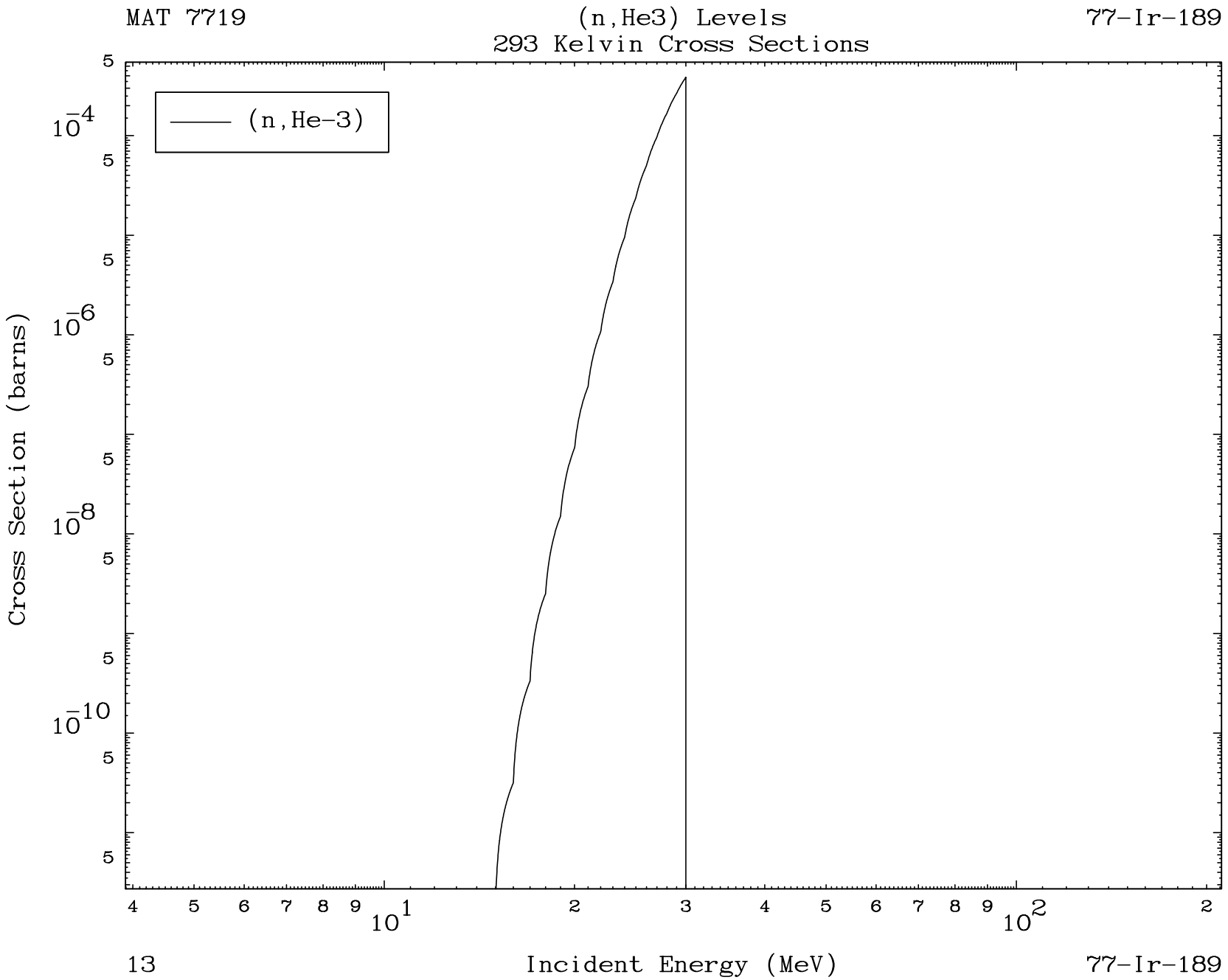

MAT 7719
(n,n') Levels
293 Kelvin Cross Sections
77-Ir-189
Inelastic
MT= 51 (n,n') Level
MT= 52 (n,n') Level
MT= 53 (n,n') Level
MT= 54 (n,n') Level
MT= 55 (n,n') Level
MT= 56 (n,n') Level
MT= 57 (n,n') Level
MT= 58 (n,n') Level
Cross Section (barns)
Incident Energy (MeV)
8
77-Ir-189

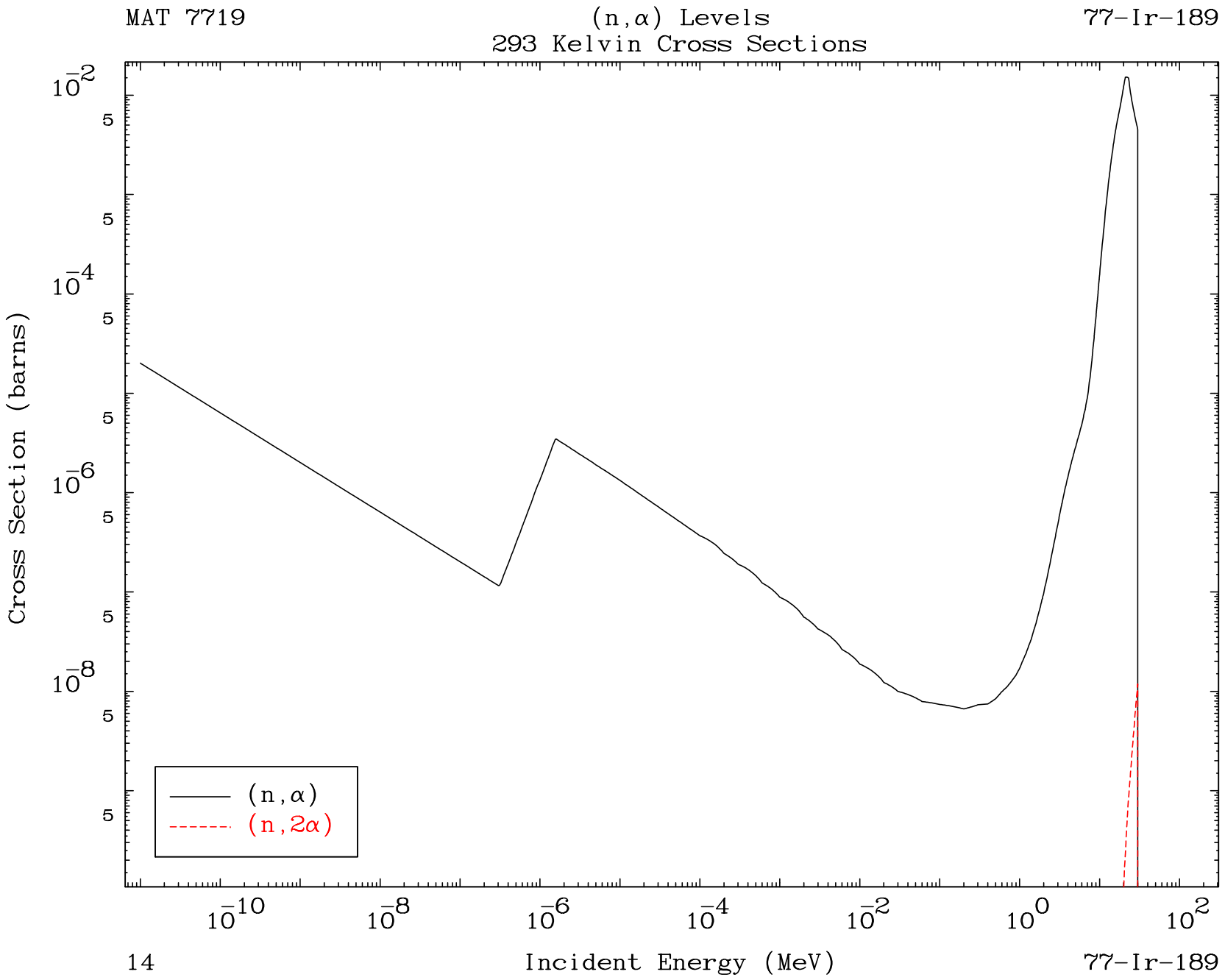

MAT 7719
(n,n') Levels
293 Kelvin Cross Sections
77-Ir-189
Inelastic
MT= 59 (n,n') Level
MT= 60 (n,n') Level
MT= 61 (n,n') Level
MT= 62 (n,n') Level
MT= 63 (n,n') Level
MT= 64 (n,n') Level
MT= 65 (n,n') Level
(n,n') Continuum
Cross Section (barns)
Incident Energy (MeV)
9
77-Ir-189

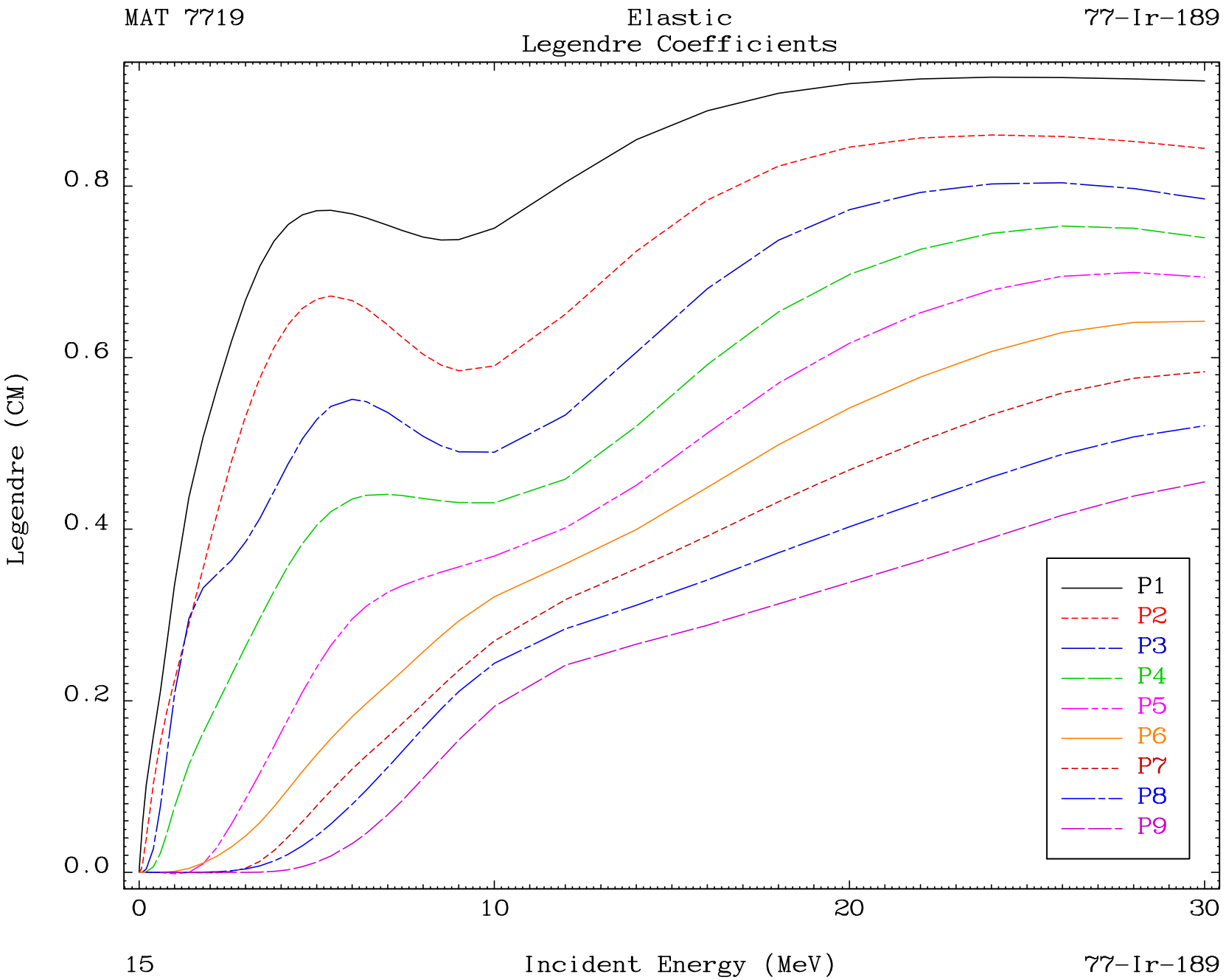

MAT 7719
(n,p) Levels
77-Ir-189
293 Kelvin Cross Sections
(n,p)
Cross Section (barns)
Incident Energy (MeV)
10
77-Ir-189

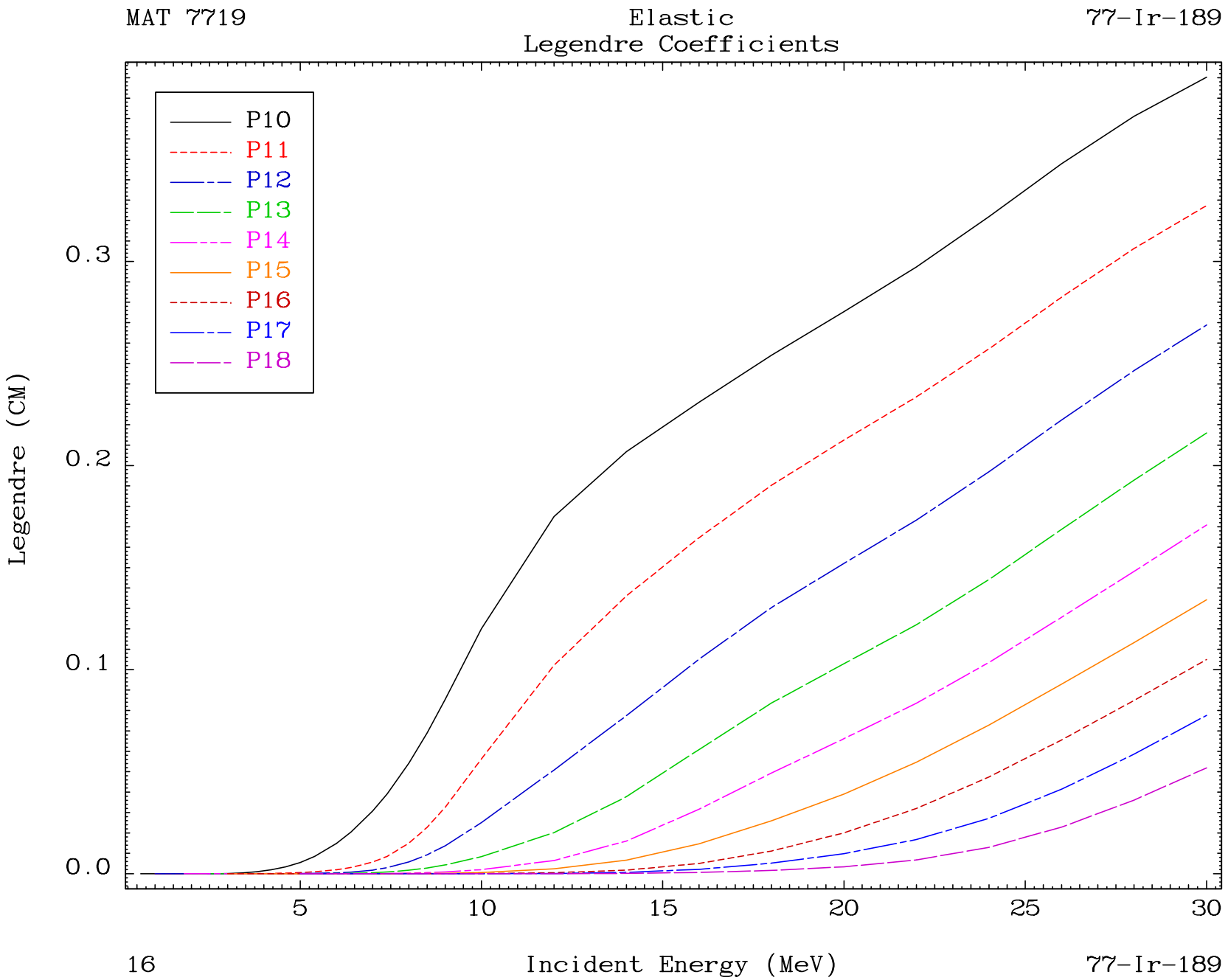

MAT 7719
(n,d) Levels
77-Ir-189
293 Kelvin Cross Sections
(n,d)
Cross Section (barns)
Incident Energy (MeV)
11
77-Ir-189

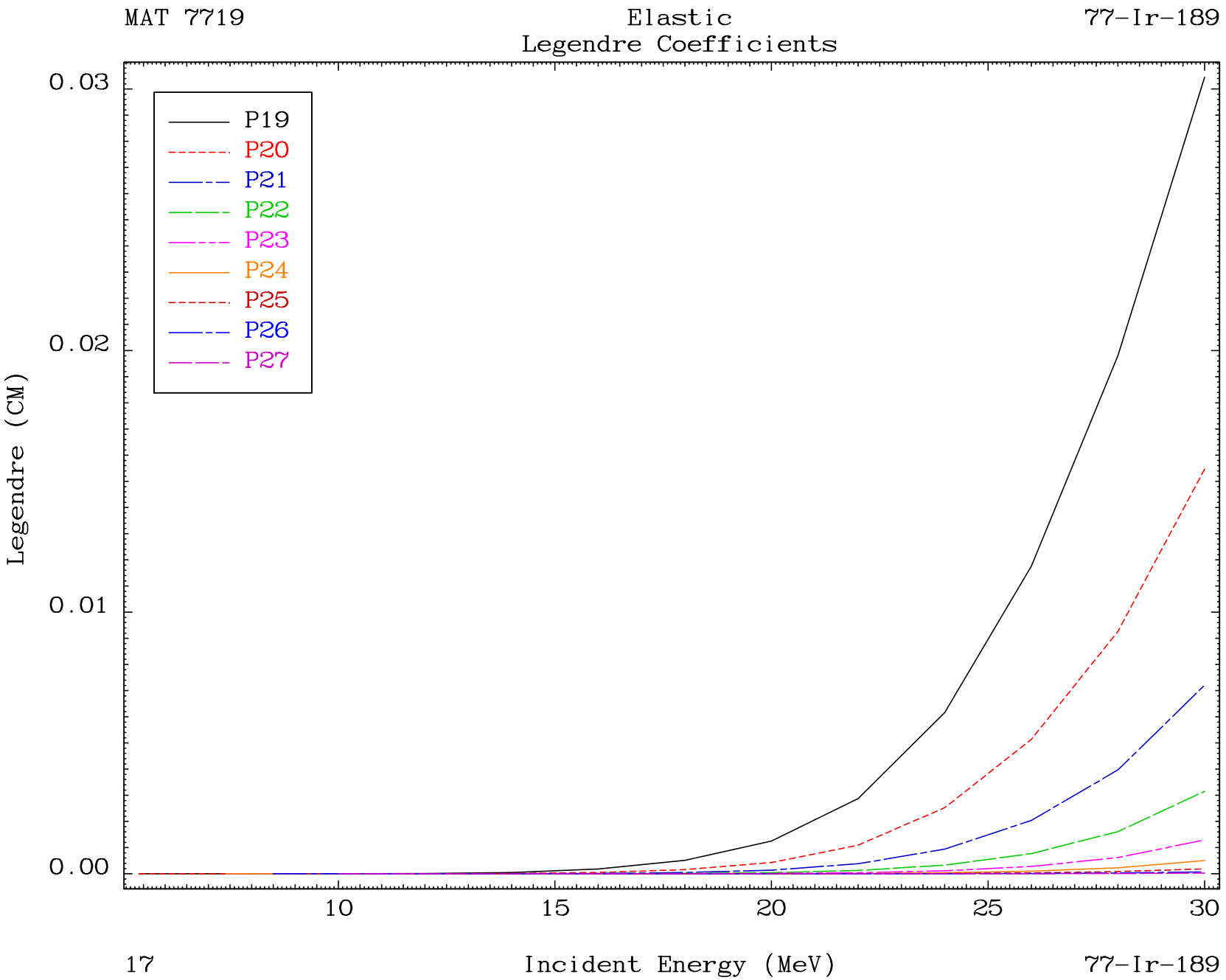

MAT 7719
(n,t) Levels
77-Ir-189
293 Kelvin Cross Sections
(n,t)
Cross Section (barns)
Incident Energy (MeV)
12
77-Ir-189

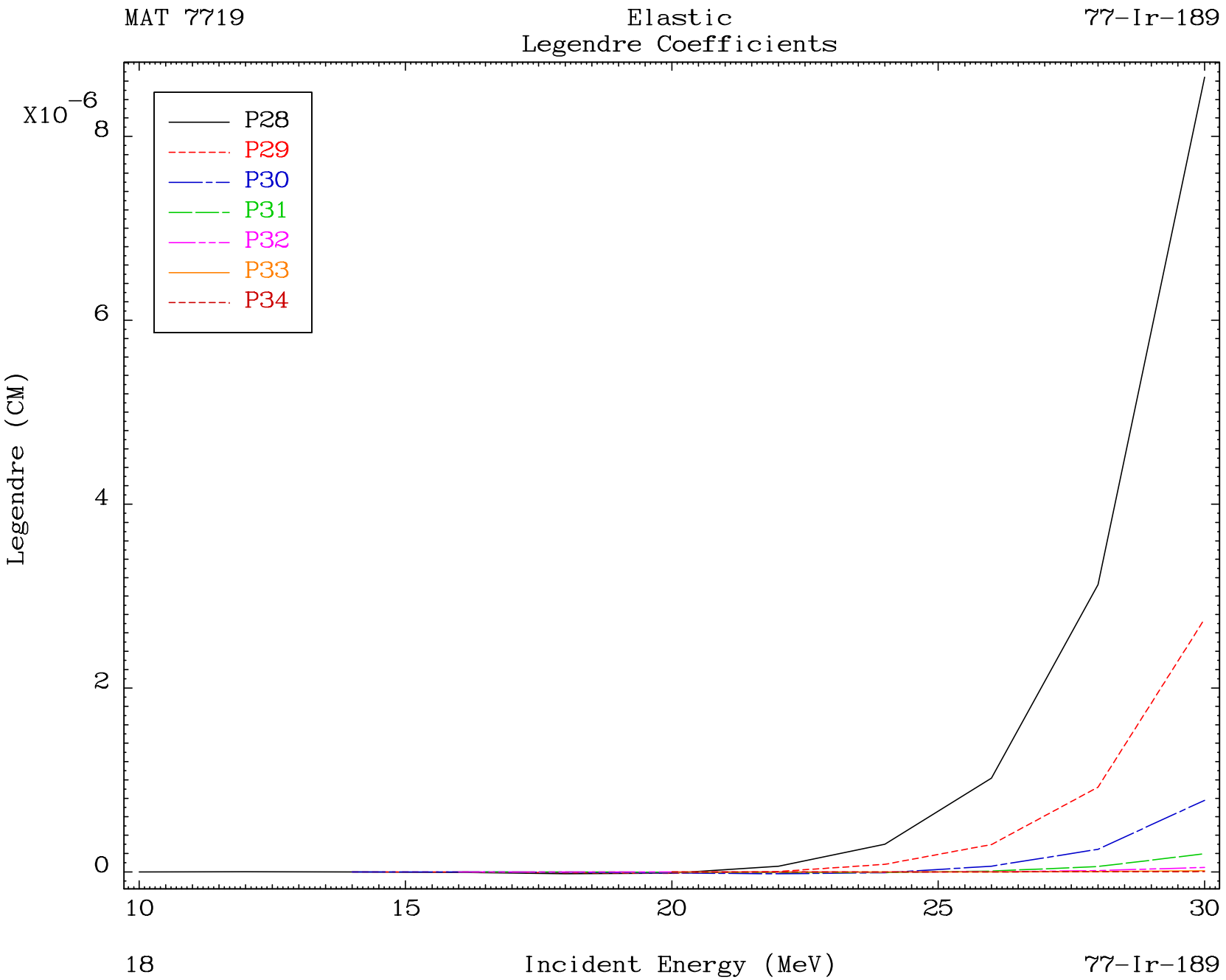

MAT 7719
(n,He3) Levels
77-Ir-189
293 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
Incident Energy (MeV)
13
77-Ir-189

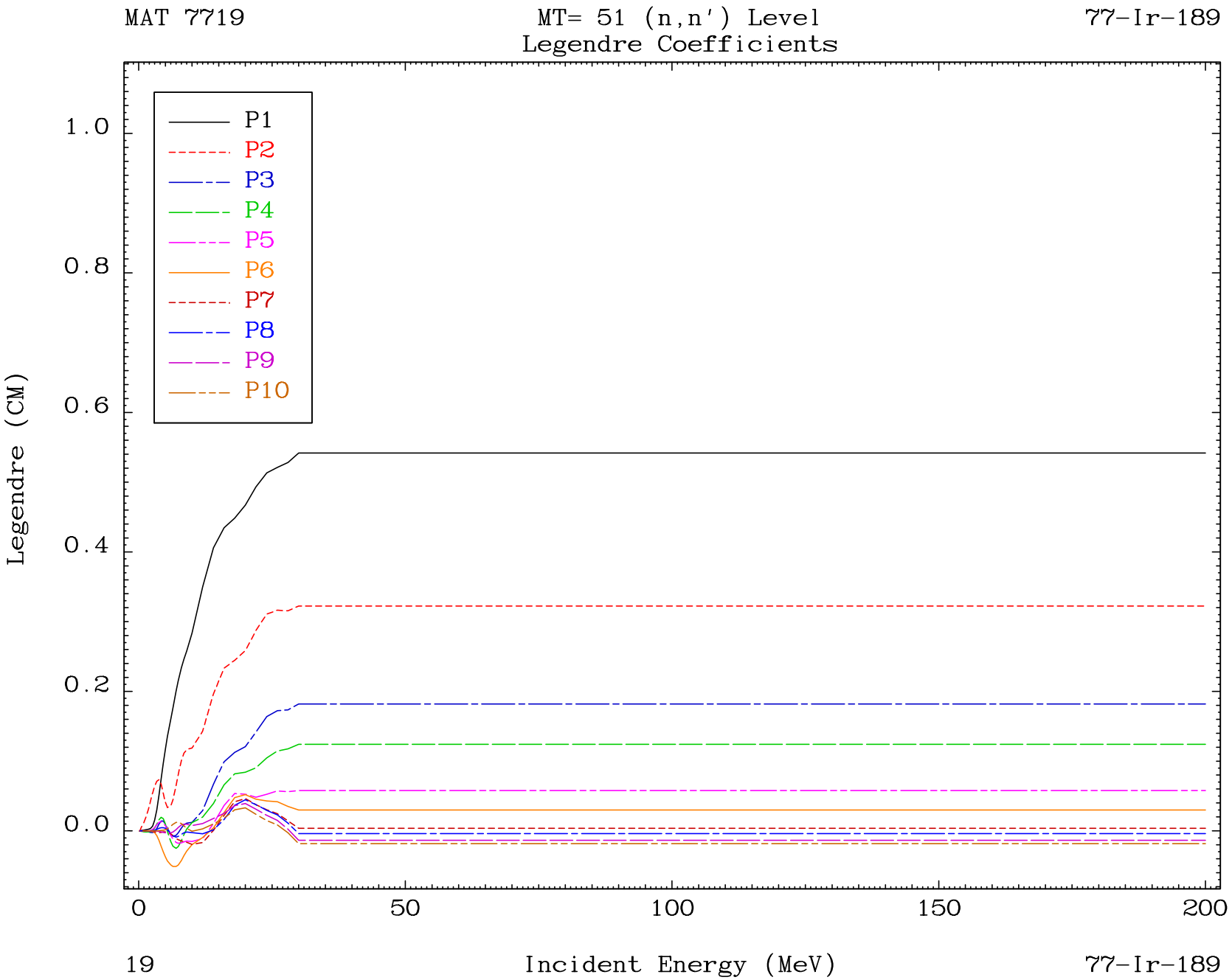

MAT 7719
(n,α) Levels
77-Ir-189
293 Kelvin Cross Sections
Cross Section (barns)
10^-2
5
10^-4
5
10^-6
5
10^-8
5
(n,α)
(n,2α)
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
14
Incident Energy (MeV)
77-Ir-189

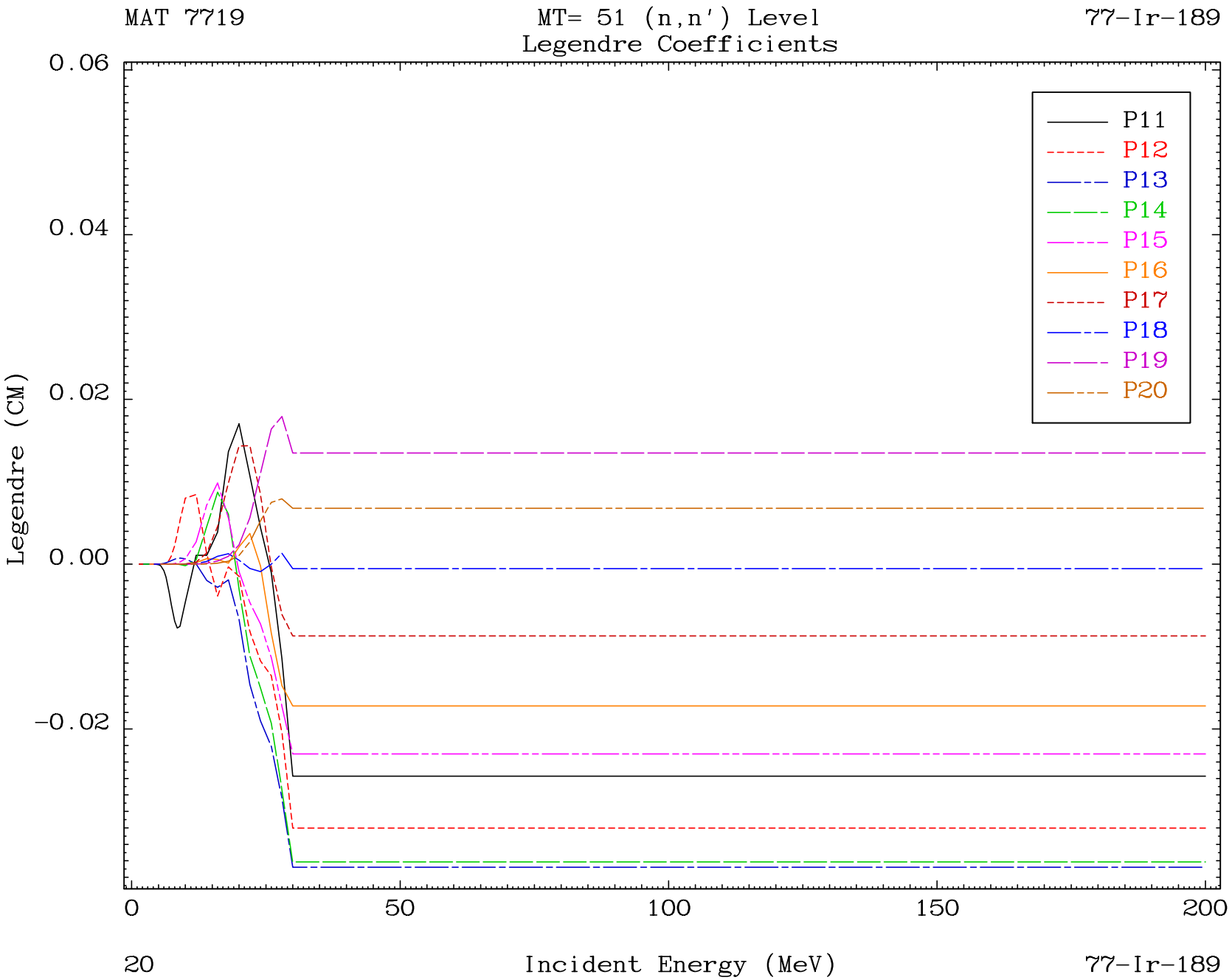

MAT 7719
Elastic
Legendre Coefficients
77-Ir-189
Legendre (CM)
0.0
0.2
0.4
0.6
0.8
0
10
20
30
15
Incident Energy (MeV)
77-Ir-189
P1
P2
P3
P4
P5
P6
P7
P8
P9

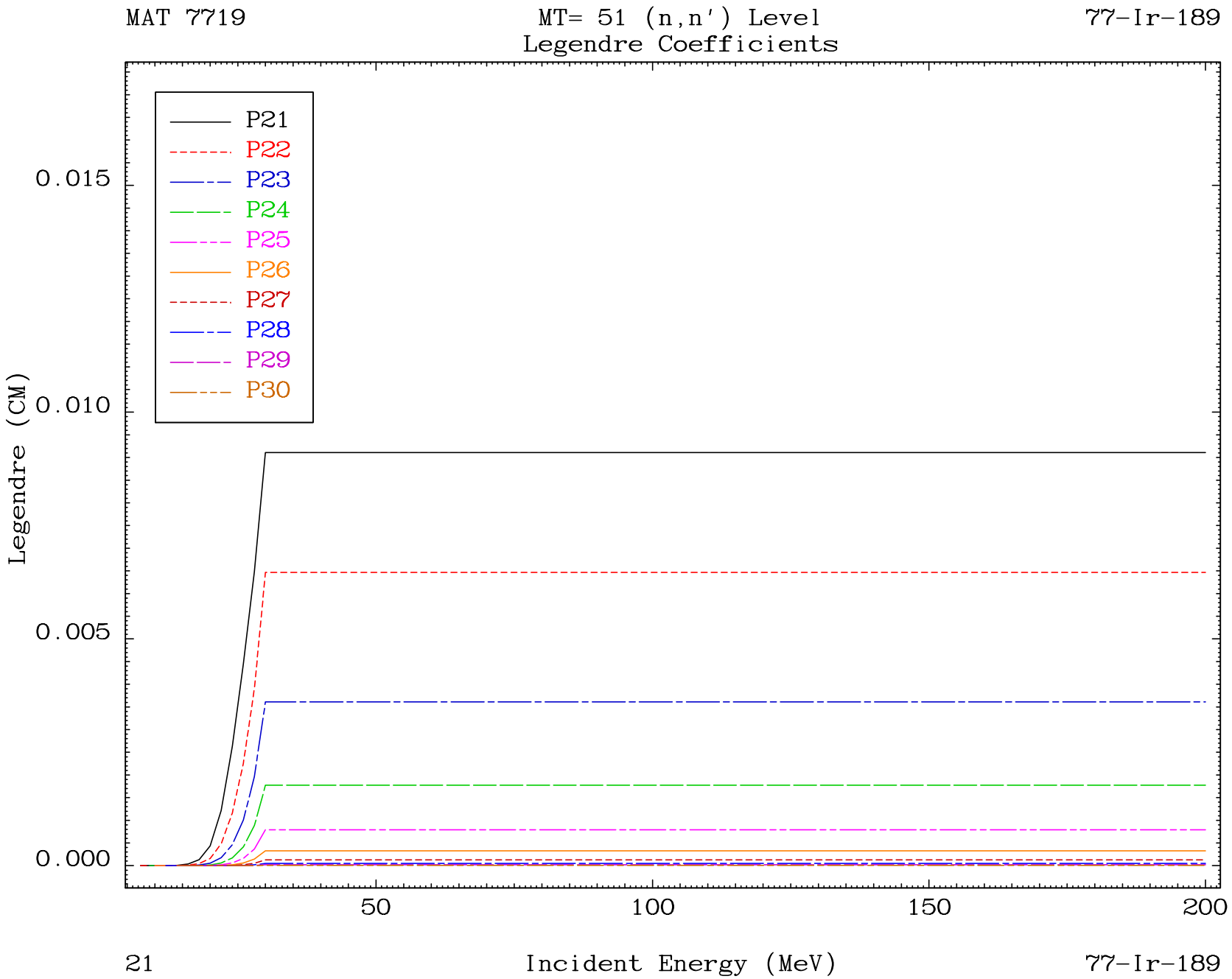

MAT 7719
Elastic
Legendre Coefficients
77-Ir-189
P10
P11
P12
P13
P14
P15
P16
P17
P18
Legendre (CM)
0.0
0.1
0.2
0.3
5
10
15
20
25
30
16
Incident Energy (MeV)
77-Ir-189

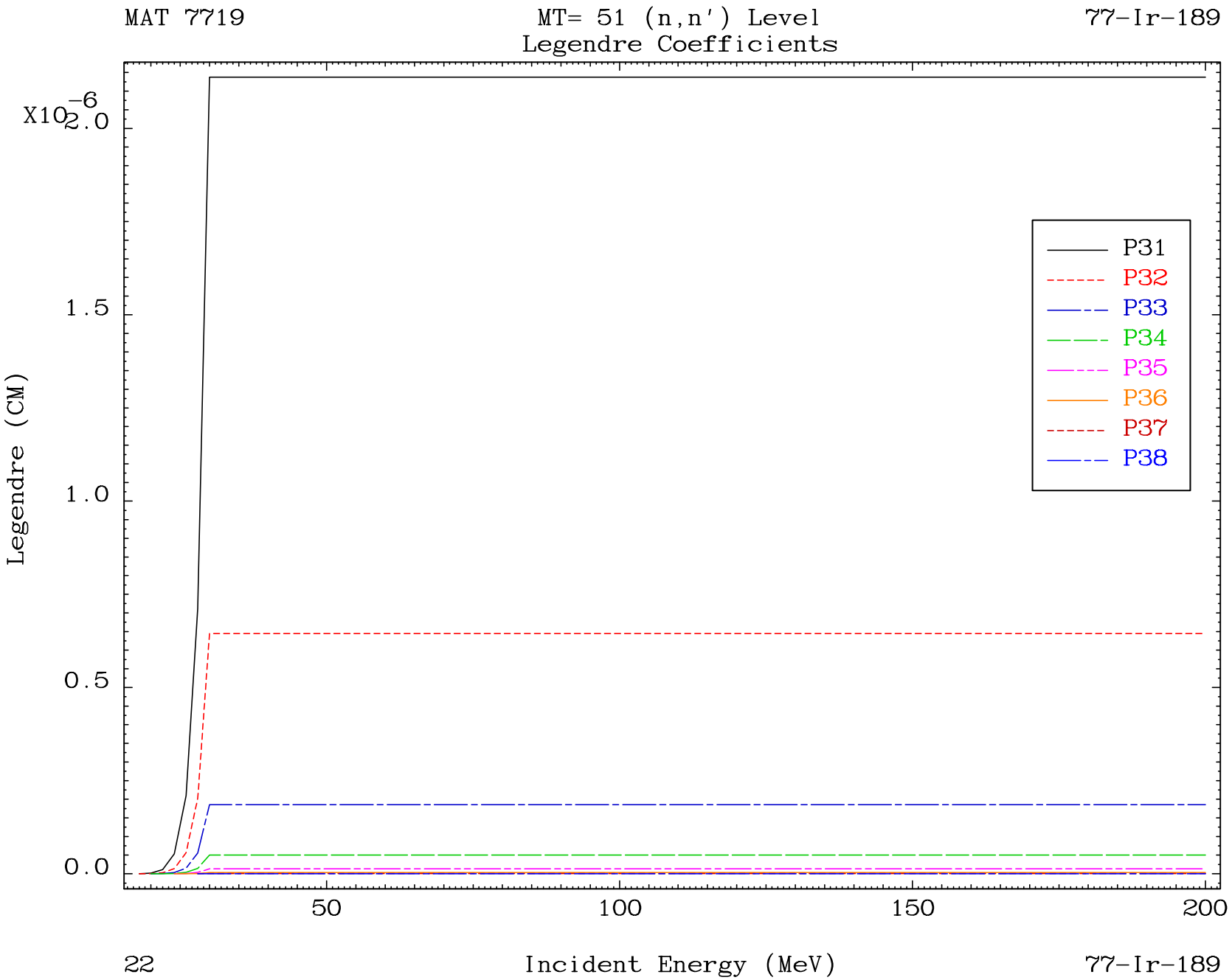

MAT 7719
Elastic
Legendre Coefficients
77-Ir-189
P19
P20
P21
P22
P23
P24
P25
P26
P27
0.03
0.02
0.01
0.00
Legendre (CM)
10
15
20
25
30
17
Incident Energy (MeV)
77-Ir-189

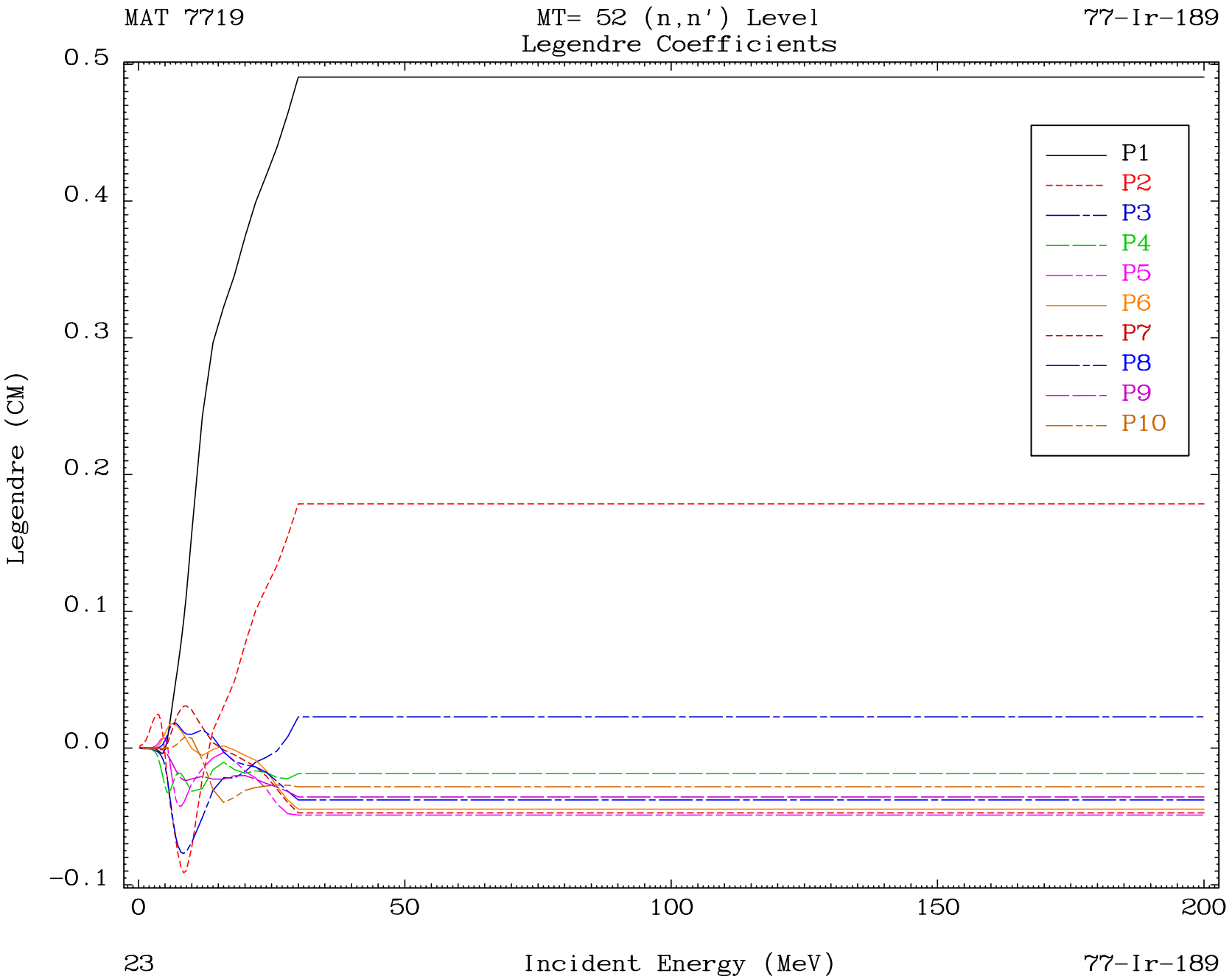

MAT 7719
Elastic
Legendre Coefficients
77-Ir-189
X10 −6
8
6
4
2
0
P28
P29
P30
P31
P32
P33
P34
Legendre (CM)
10
15
20
25
30
18
Incident Energy (MeV)
77-Ir-189

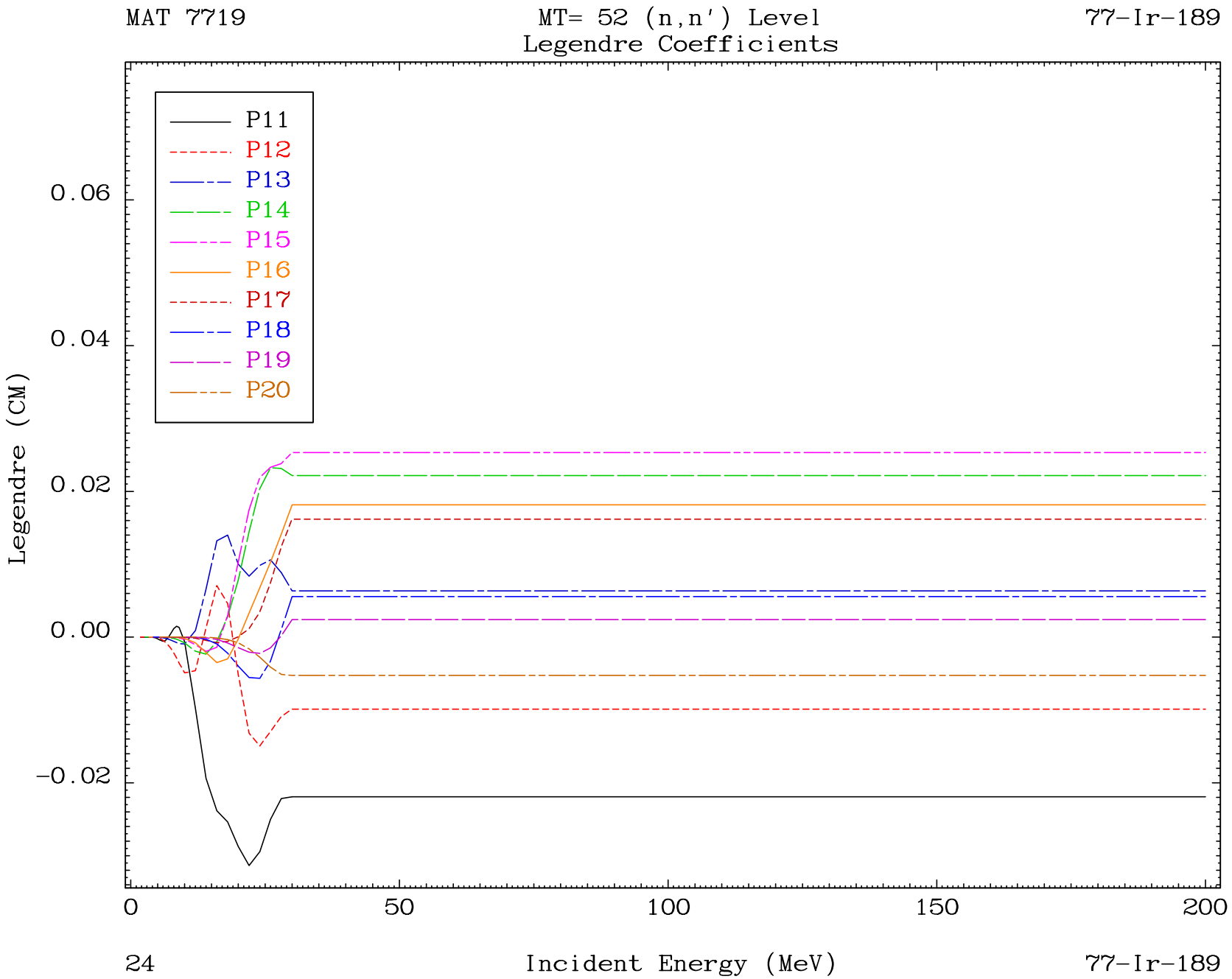

MAT 7719
MT= 51 (n,n') Level
Legendre Coefficients
77-Ir-189
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
0
50
100
150
200
19
Incident Energy (MeV)
77-Ir-189

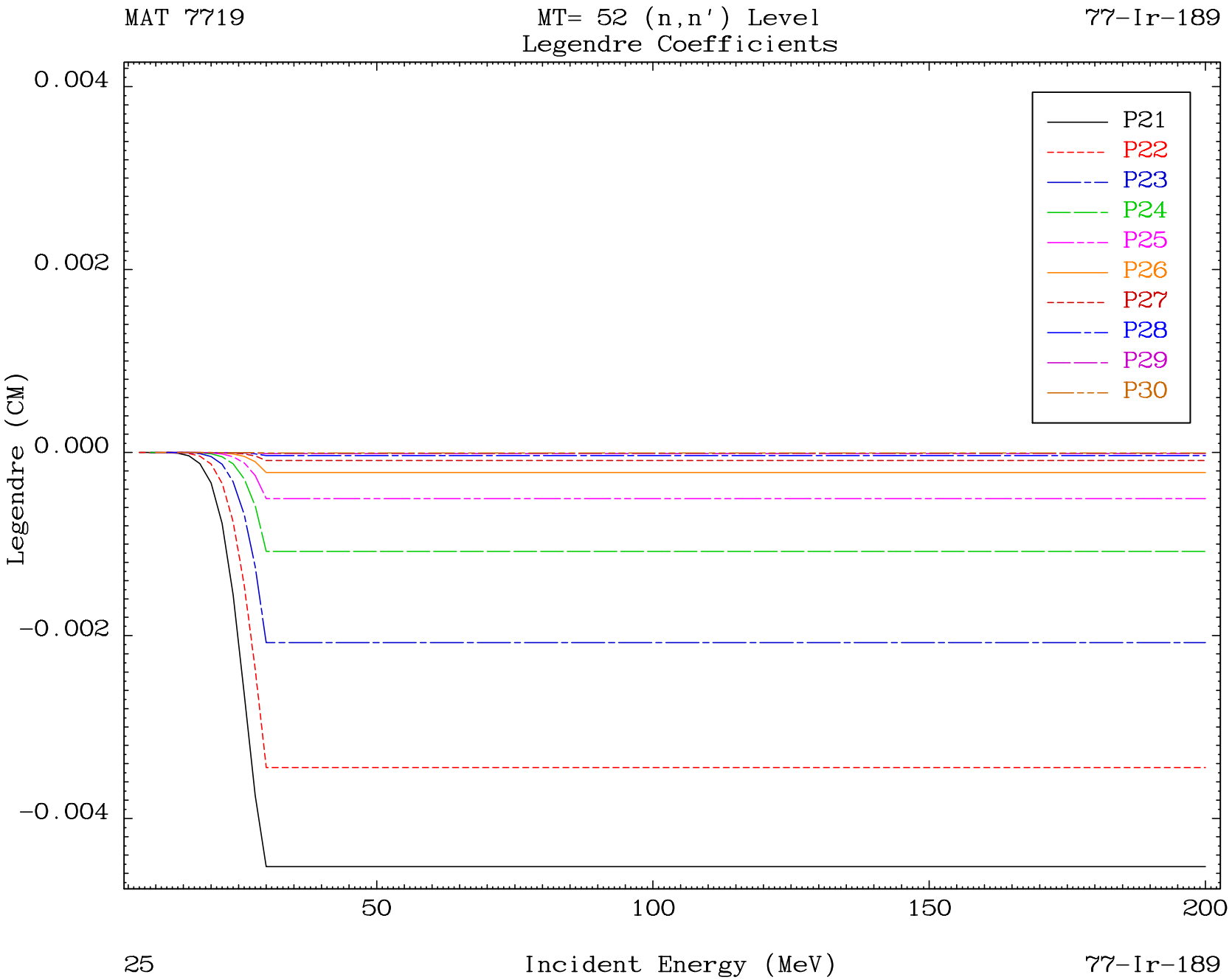

MAT 7719
MT= 51 (n,n') Level
Legendre Coefficients
77-Ir-189
0.06
0.04
0.02
0.00
-0.02
Legendre (CM)
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0
50
100
150
200
20
Incident Energy (MeV)
77-Ir-189

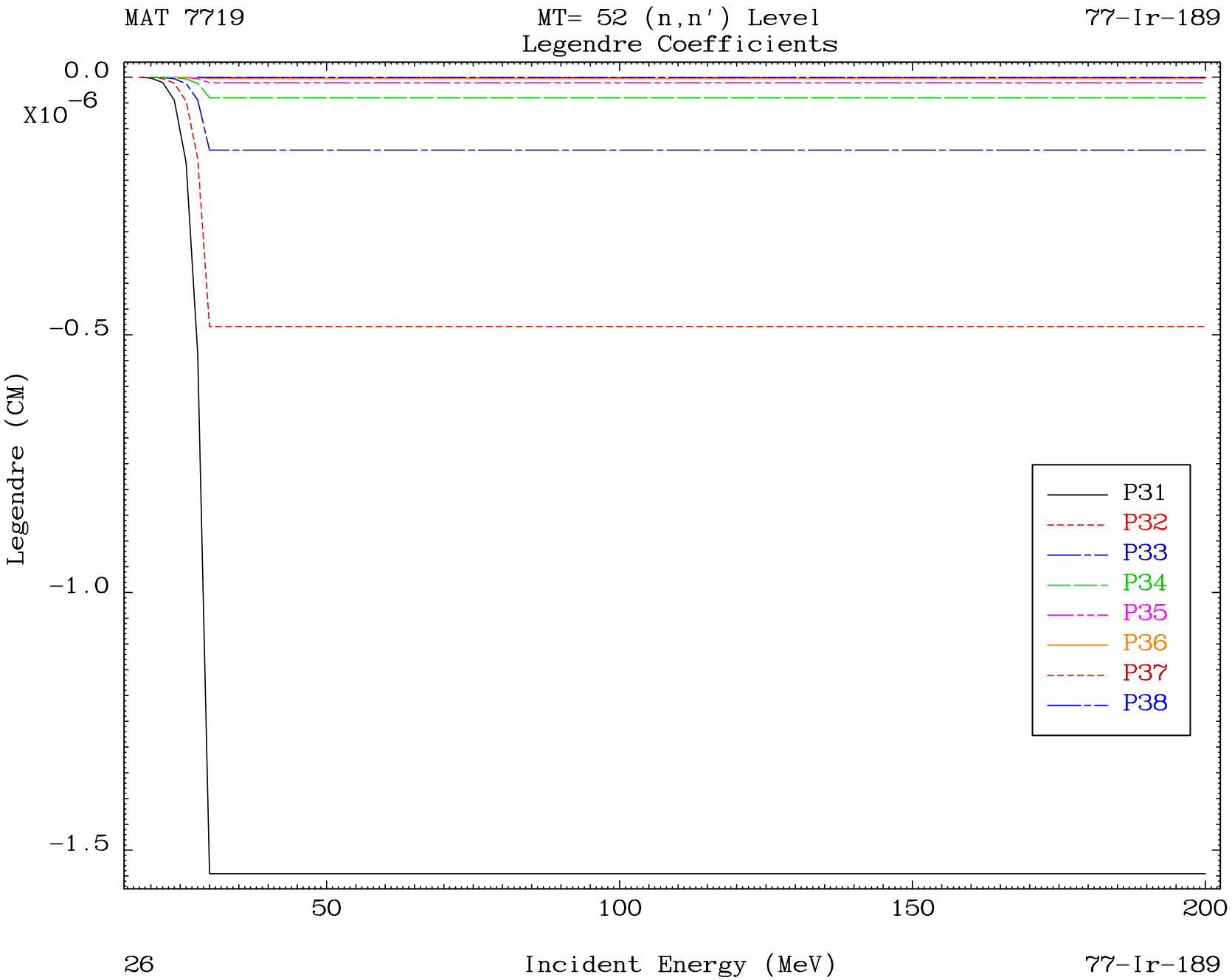

MAT 7719
MT= 51 (n,n') Level
Legendre Coefficients
77-Ir-189
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
0.015
0.010
0.005
0.000
Legendre (CM)
50
100
150
200
21
Incident Energy (MeV)
77-Ir-189

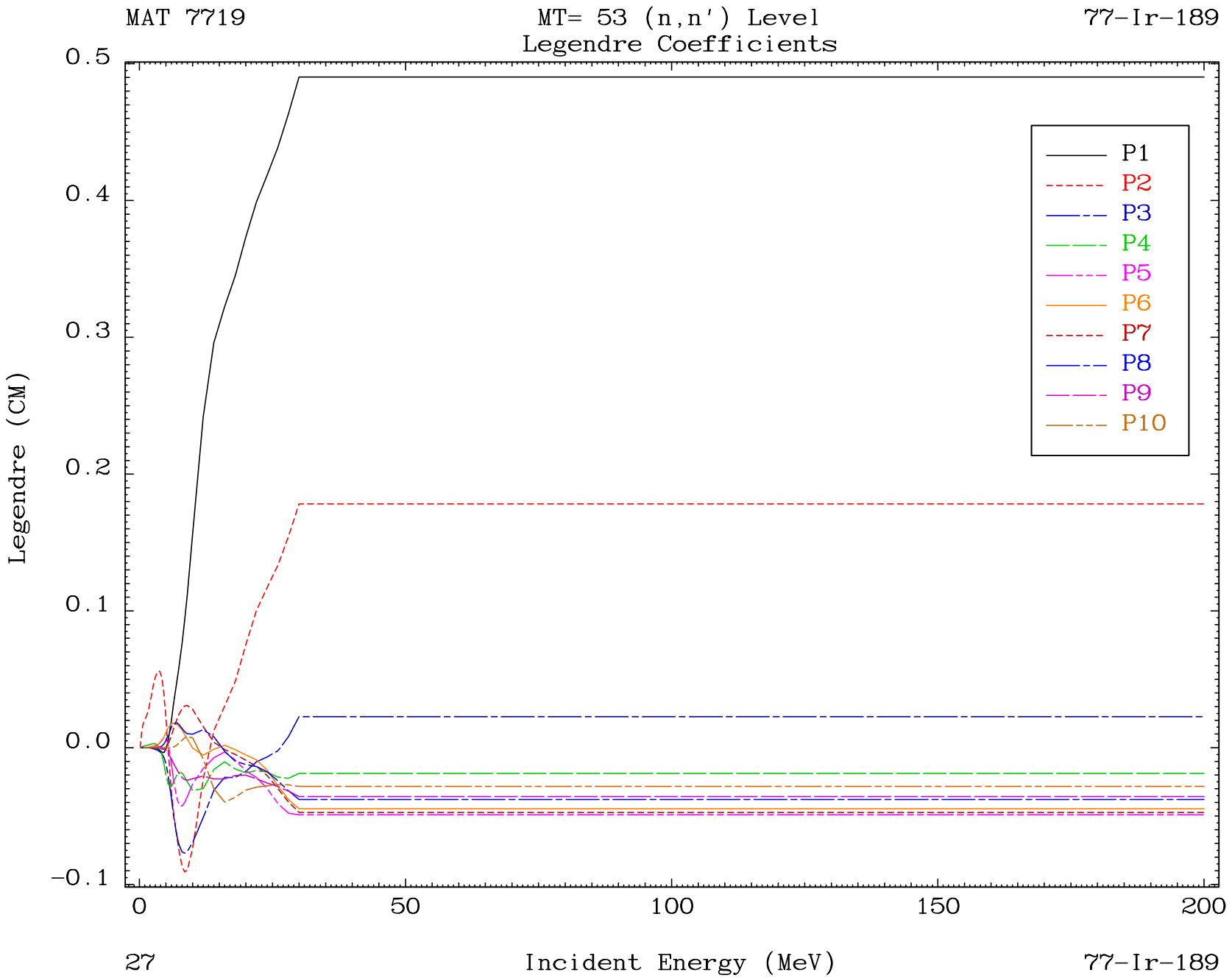

MAT 7719
MT= 51 (n,n') Level
Legendre Coefficients
77-Ir-189
X10-6
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P31
P32
P33
P34
P35
P36
P37
P38
50
100
150
200
22
Incident Energy (MeV)
77-Ir-189

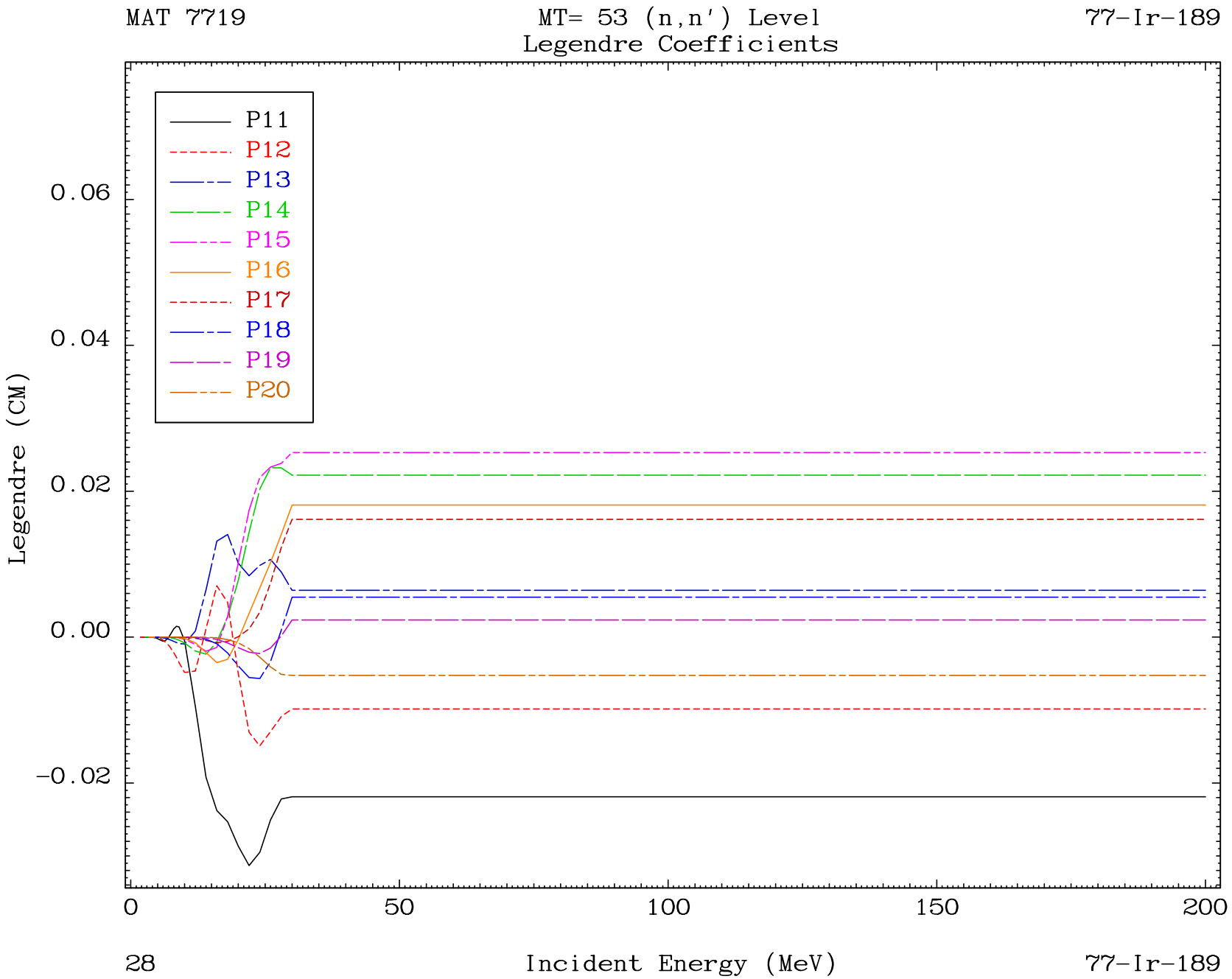

MAT 7719
MT= 52 (n,n') Level
Legendre Coefficients
77-Ir-189
0.5
0.4
0.3
0.2
0.1
0.0
-0.1
Legendre (CM)
0
50
100
150
200
Incident Energy (MeV)
23
77-Ir-189
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10

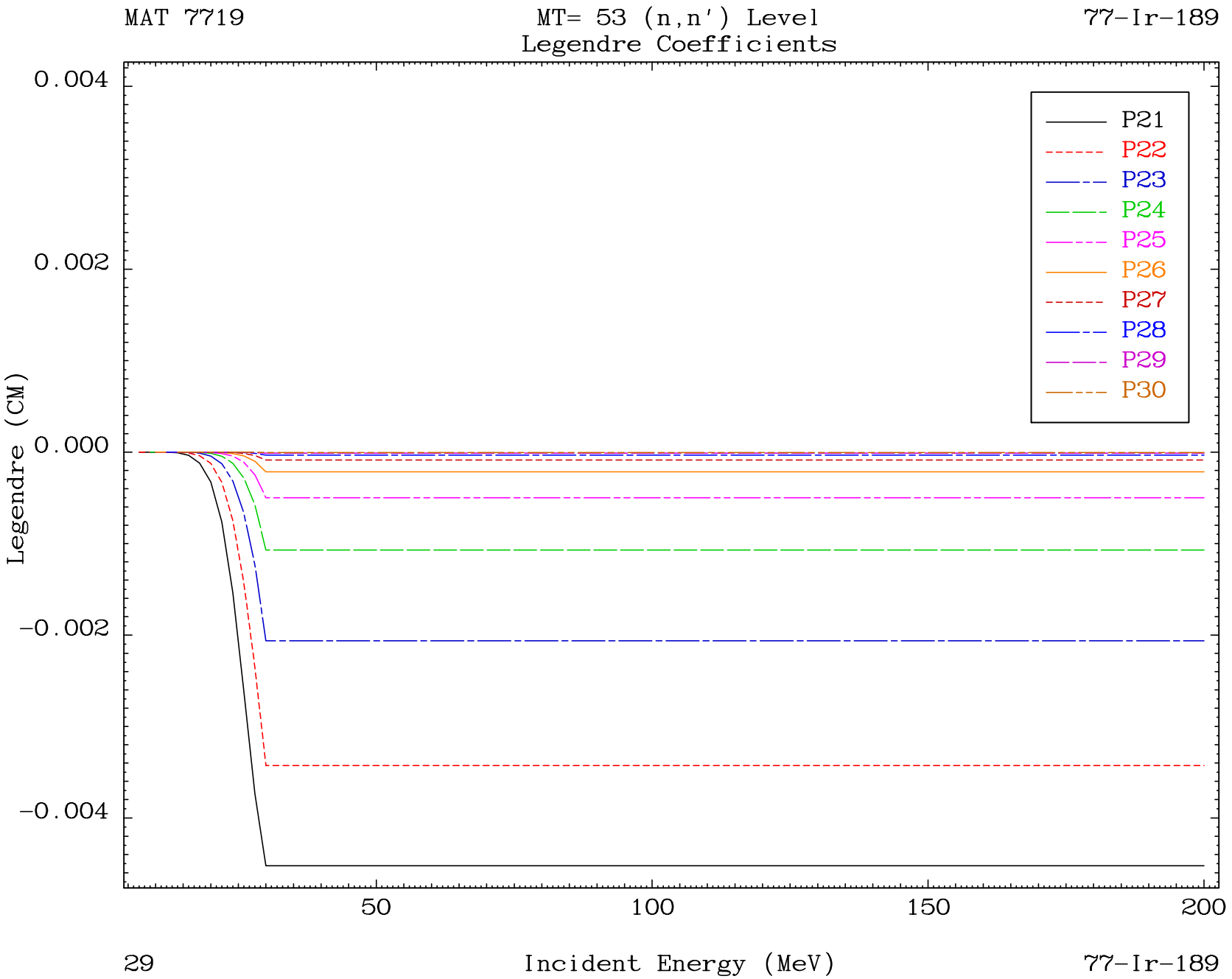

MAT 7719
MT= 52 (n,n') Level
Legendre Coefficients
77-Ir-189
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.06
0.04
0.02
0.00
-0.02
Legendre (CM)
0
50
100
150
200
24
Incident Energy (MeV)
77-Ir-189

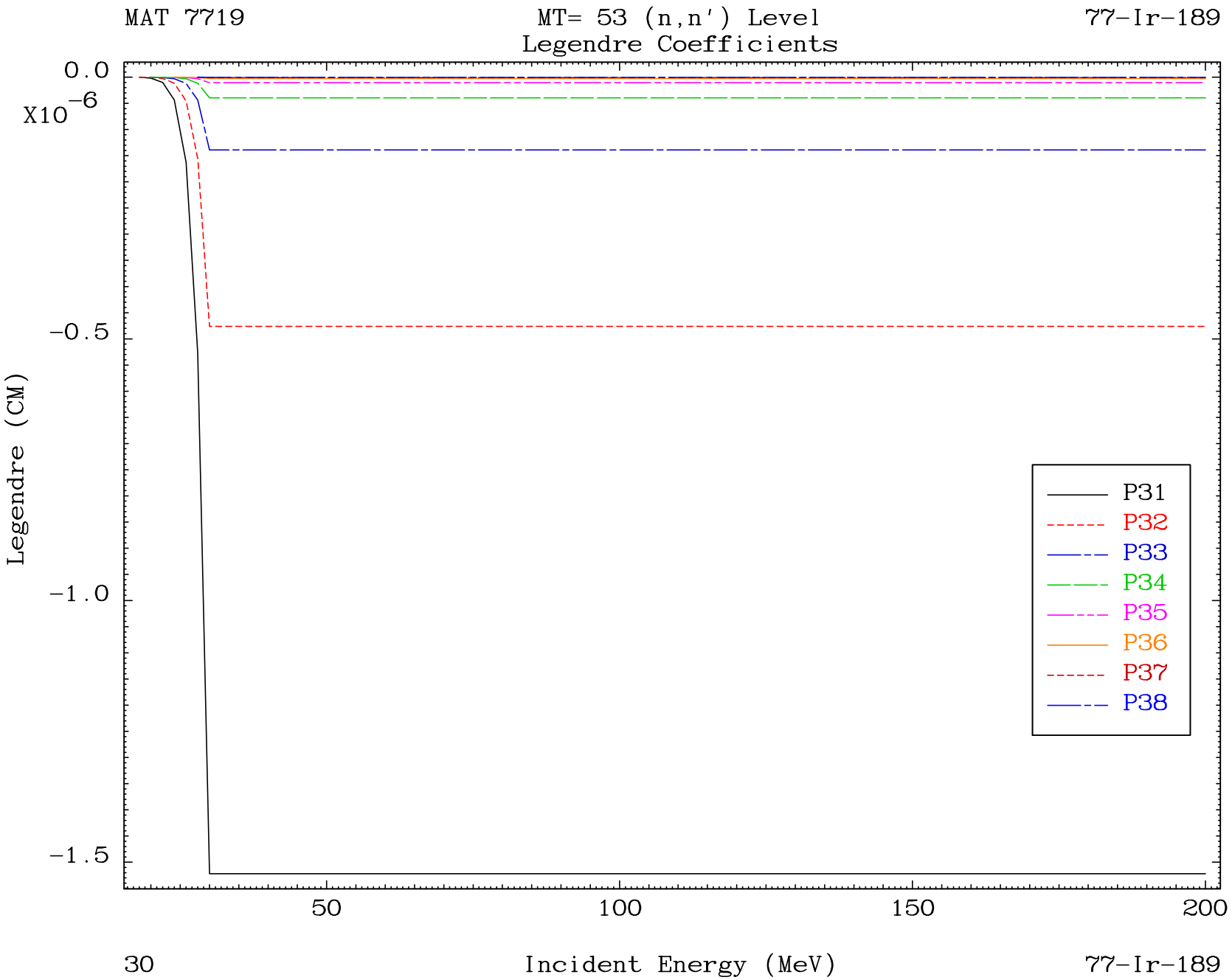

MAT 7719
MT= 52 (n,n') Level
Legendre Coefficients
77-Ir-189
0.004
0.002
0.000
-0.002
-0.004
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
50
100
150
200
25
Incident Energy (MeV)
77-Ir-189

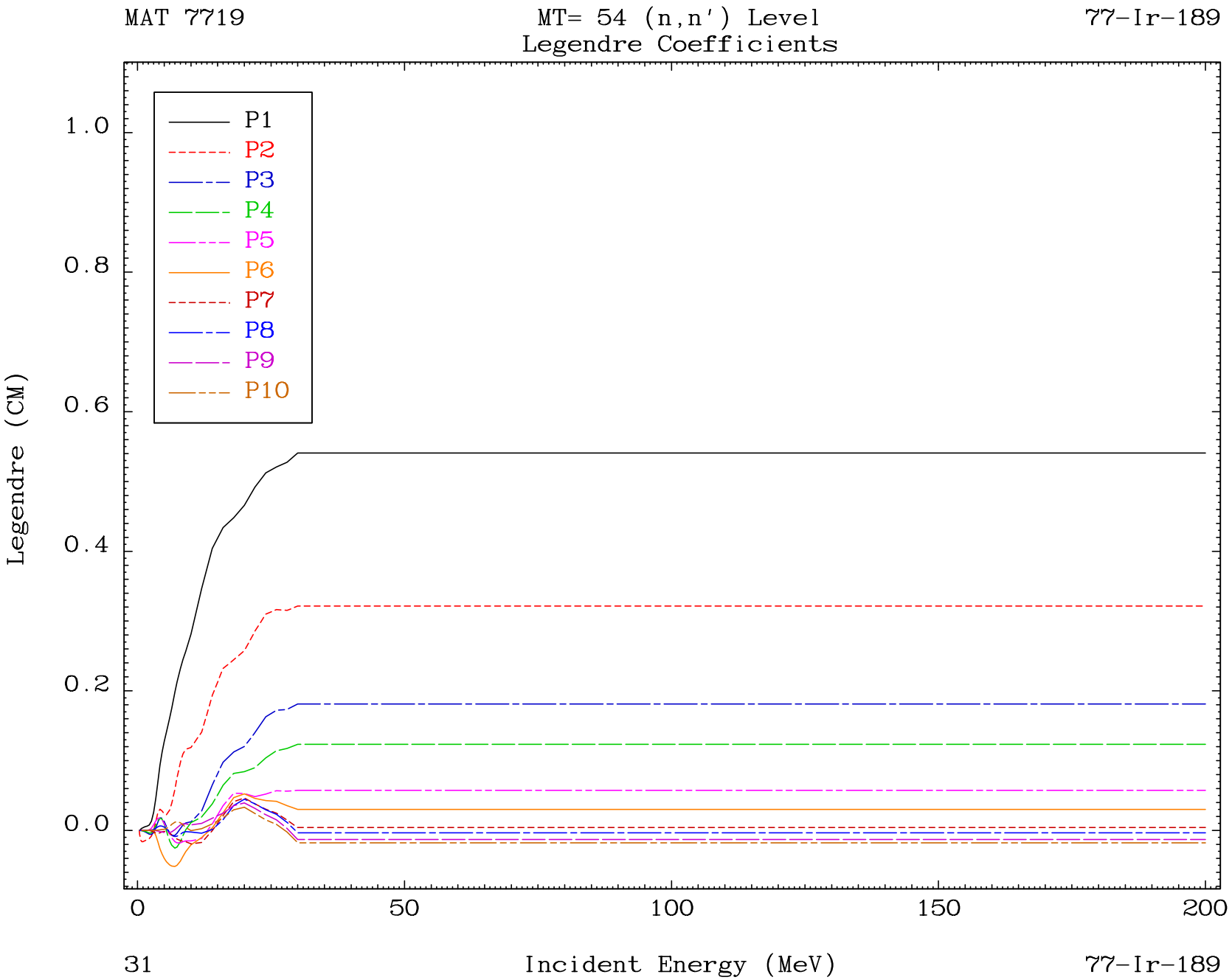

MAT 7719
MT= 52 (n,n') Level
Legendre Coefficients
77-Ir-189
0.0
X10^-6
-0.5
-1.0
-1.5
Legendre (CM)
50
100
150
200
26
Incident Energy (MeV)
77-Ir-189
P31
P32
P33
P34
P35
P36
P37
P38

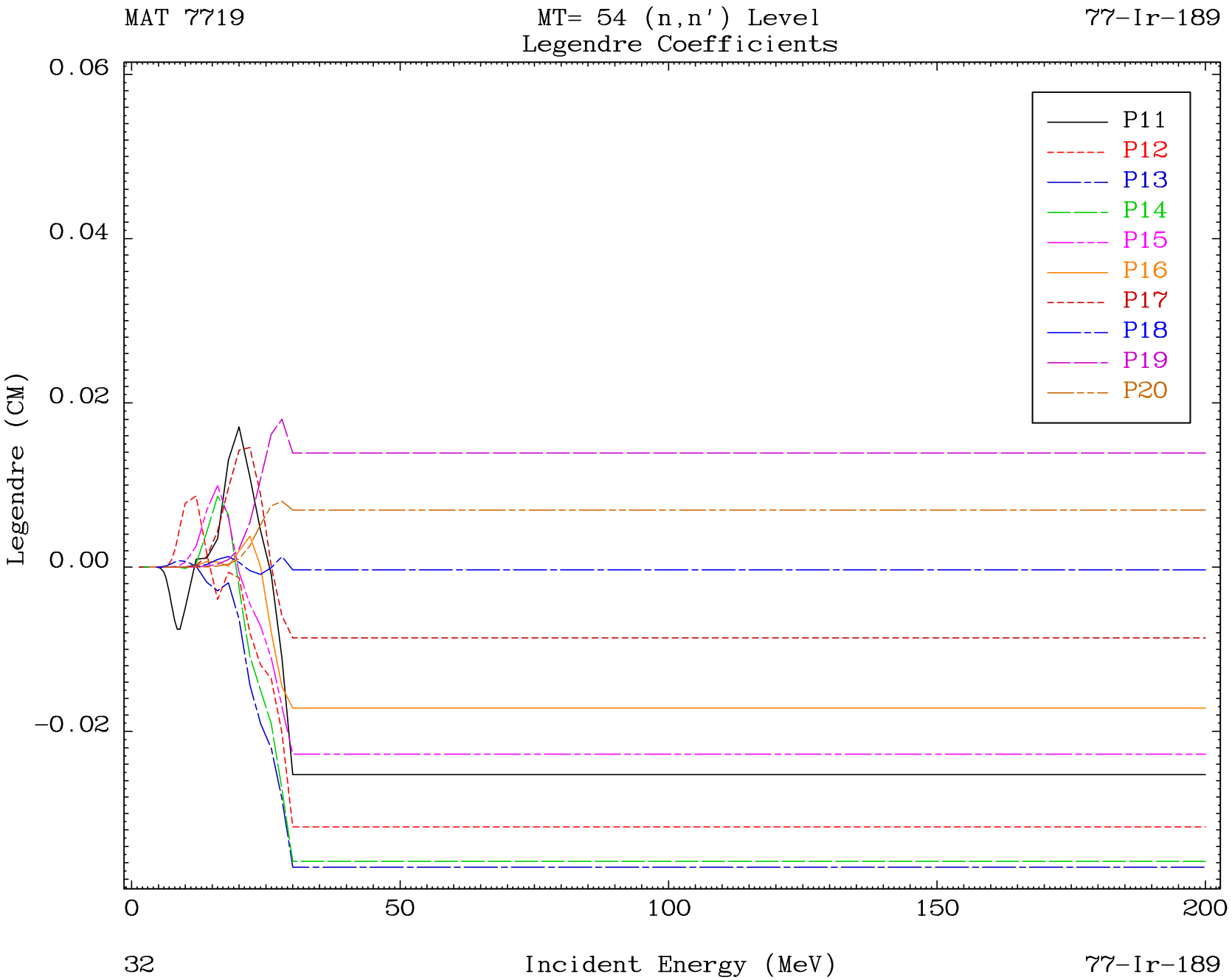

MAT 7719
MT= 53 (n,n') Level
Legendre Coefficients
77-Ir-189
0.5
0.4
0.3
0.2
0.1
0.0
-0.1
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
0
50
100
150
200
27
Incident Energy (MeV)
77-Ir-189

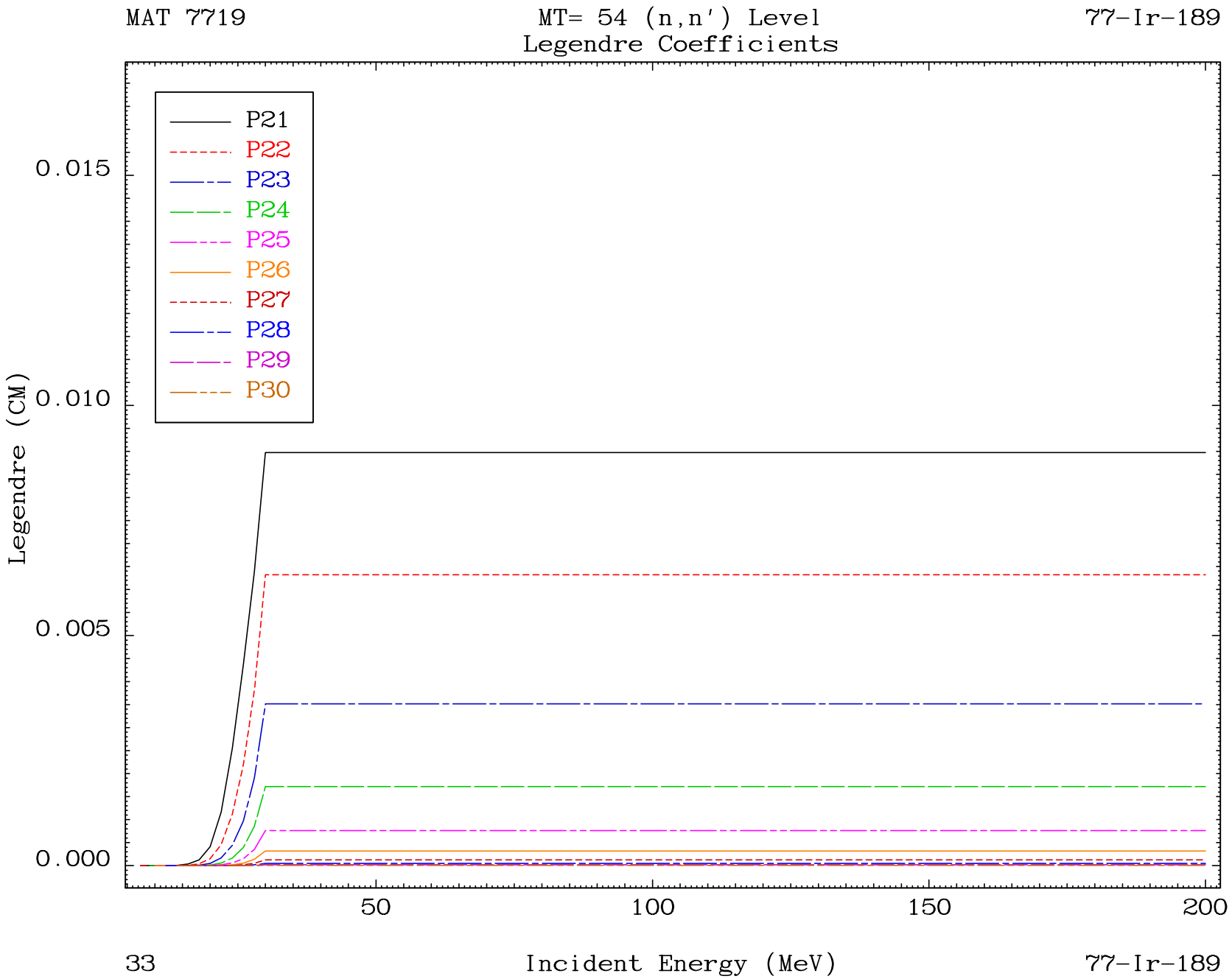

MAT 7719
MT= 53 (n,n') Level
Legendre Coefficients
77-Ir-189
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.06
0.04
0.02
0.00
-0.02
Legendre (CM)
0
50
100
150
200
28
Incident Energy (MeV)
77-Ir-189

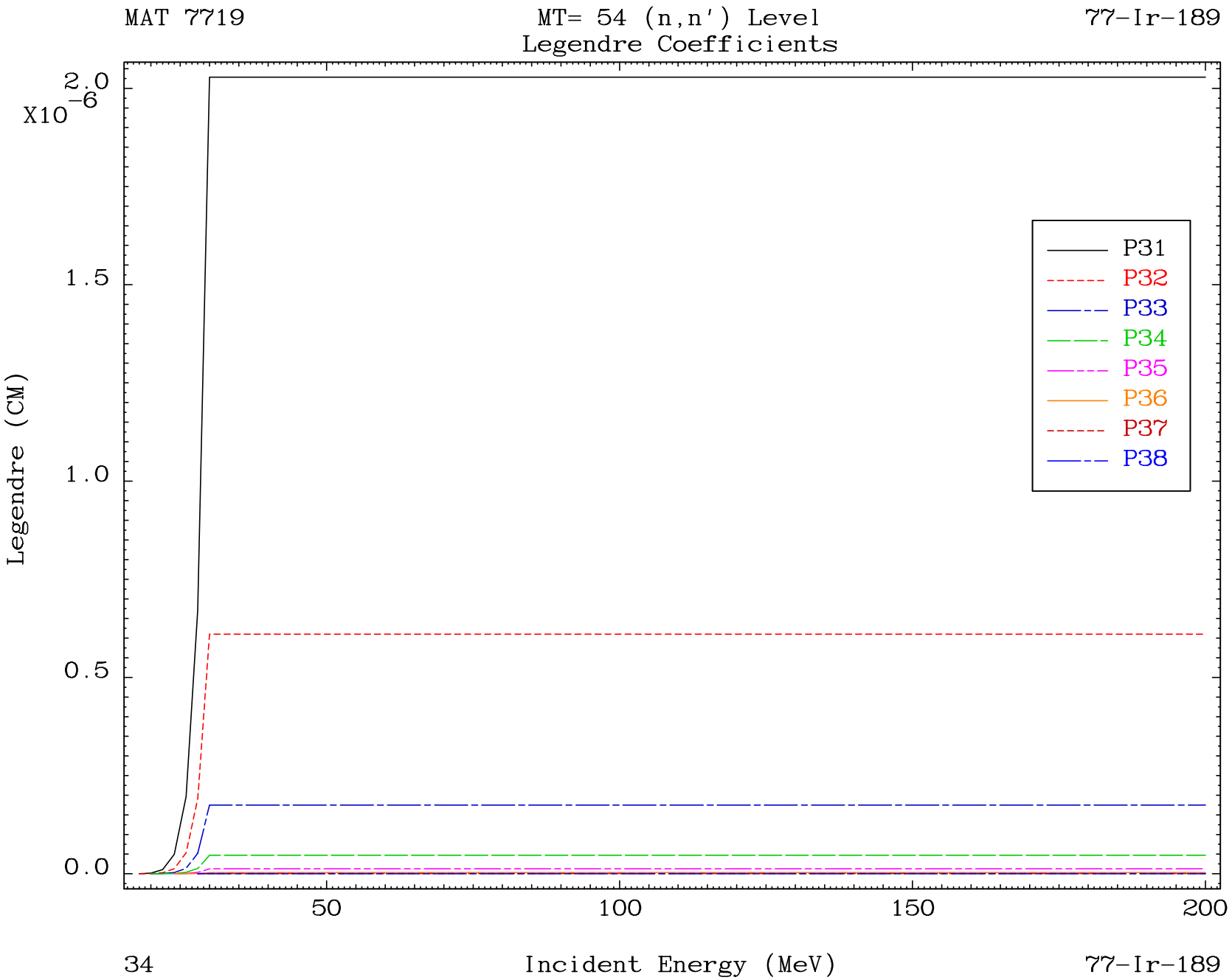

MAT 7719
MT= 53 (n,n') Level
Legendre Coefficients
77-Ir-189
0.004
0.002
0.000
-0.002
-0.004
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
50
100
150
200
29
Incident Energy (MeV)
77-Ir-189

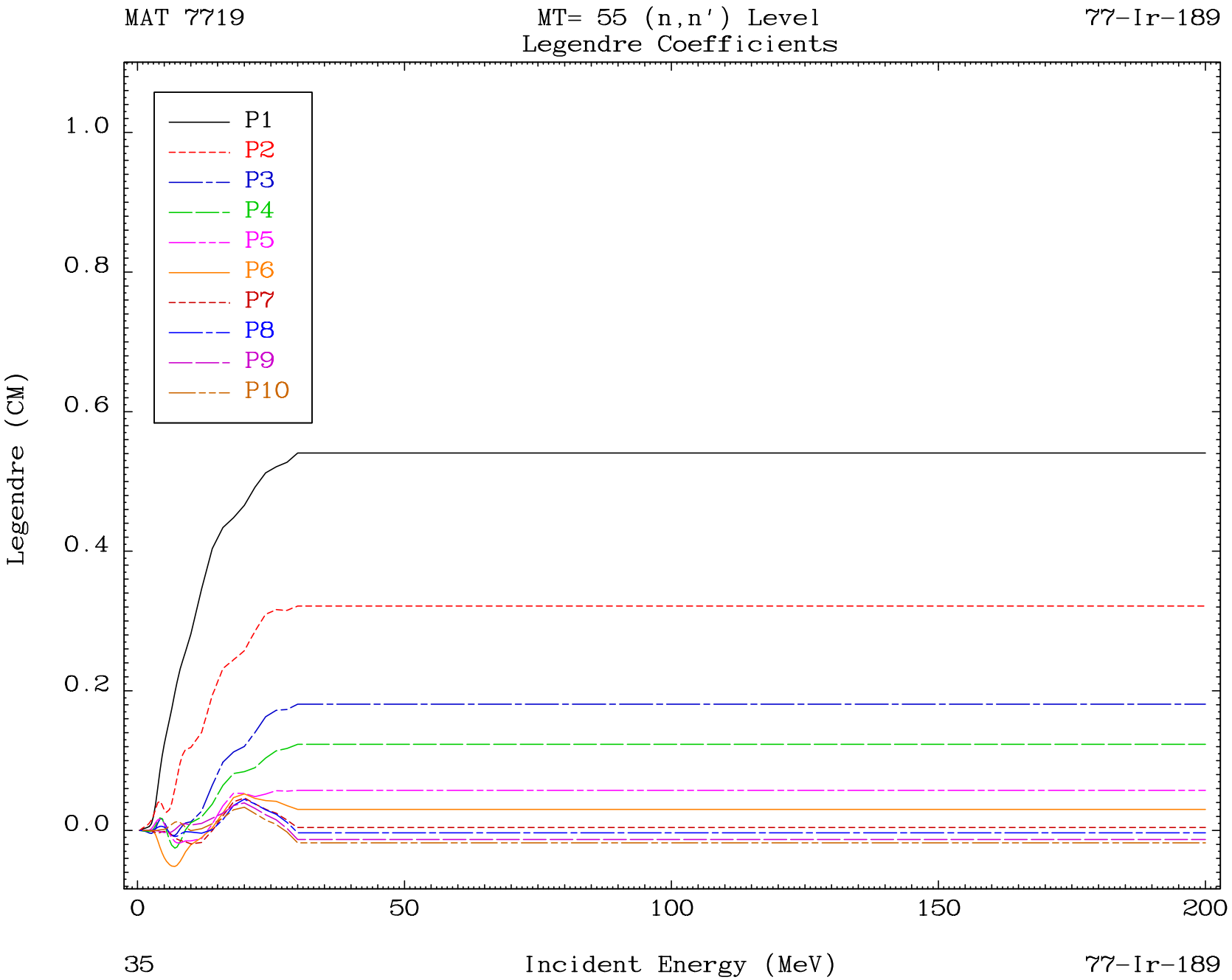

MAT 7719
MT= 53 (n,n') Level
Legendre Coefficients
77-Ir-189
0.0
X10^-6
-0.5
-1.0
-1.5
Legendre (CM)
50
100
150
200
30
Incident Energy (MeV)
77-Ir-189
P31
P32
P33
P34
P35
P36
P37
P38

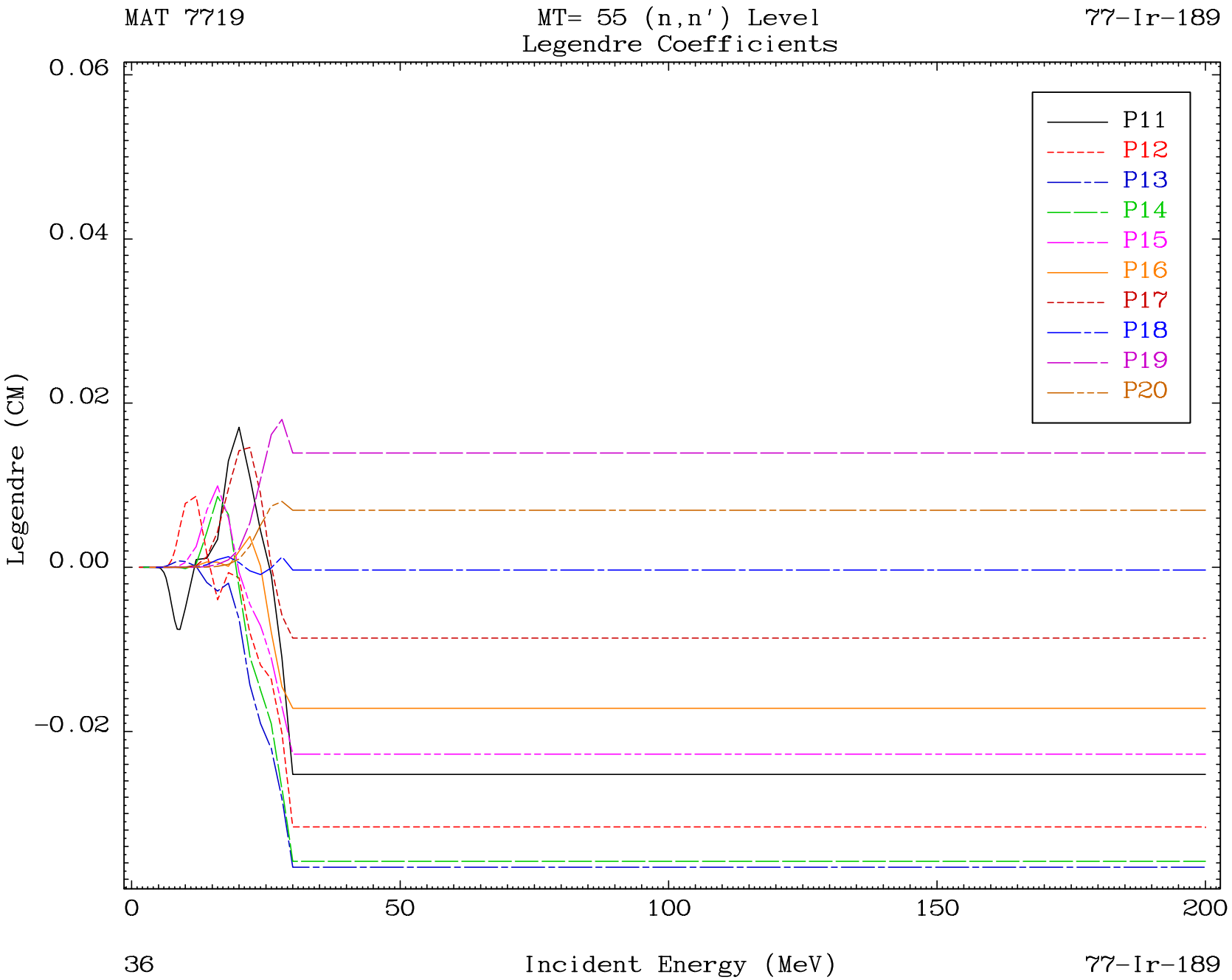

MAT 7719
MT= 54 (n,n') Level
Legendre Coefficients
77-Ir-189
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
0
50
100
150
200
31
Incident Energy (MeV)
77-Ir-189

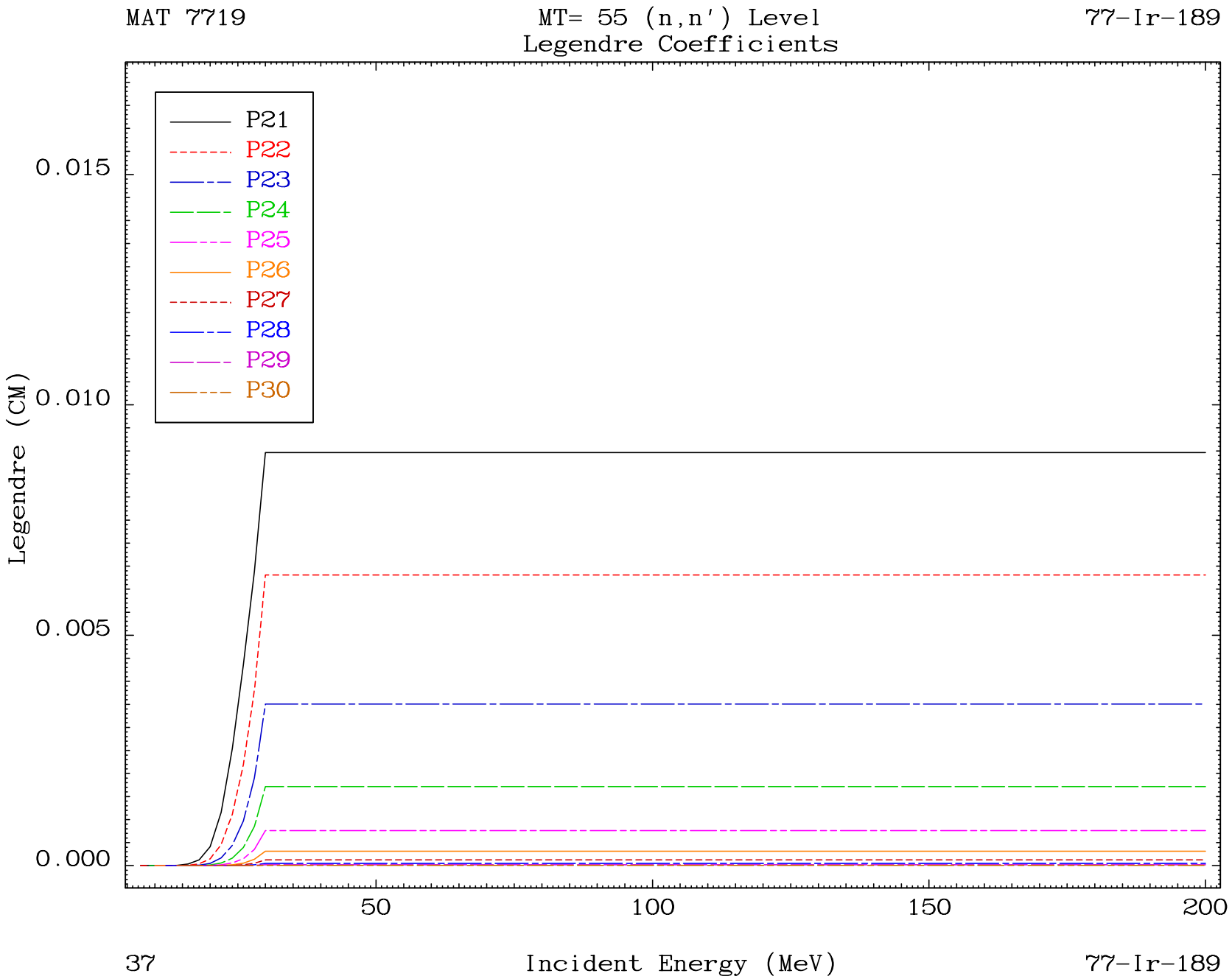

MAT 7719
MT= 54 (n,n') Level
Legendre Coefficients
77-Ir-189
0.06
0.04
0.02
0.00
-0.02
Legendre (CM)
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0
50
100
150
200
32
Incident Energy (MeV)
77-Ir-189

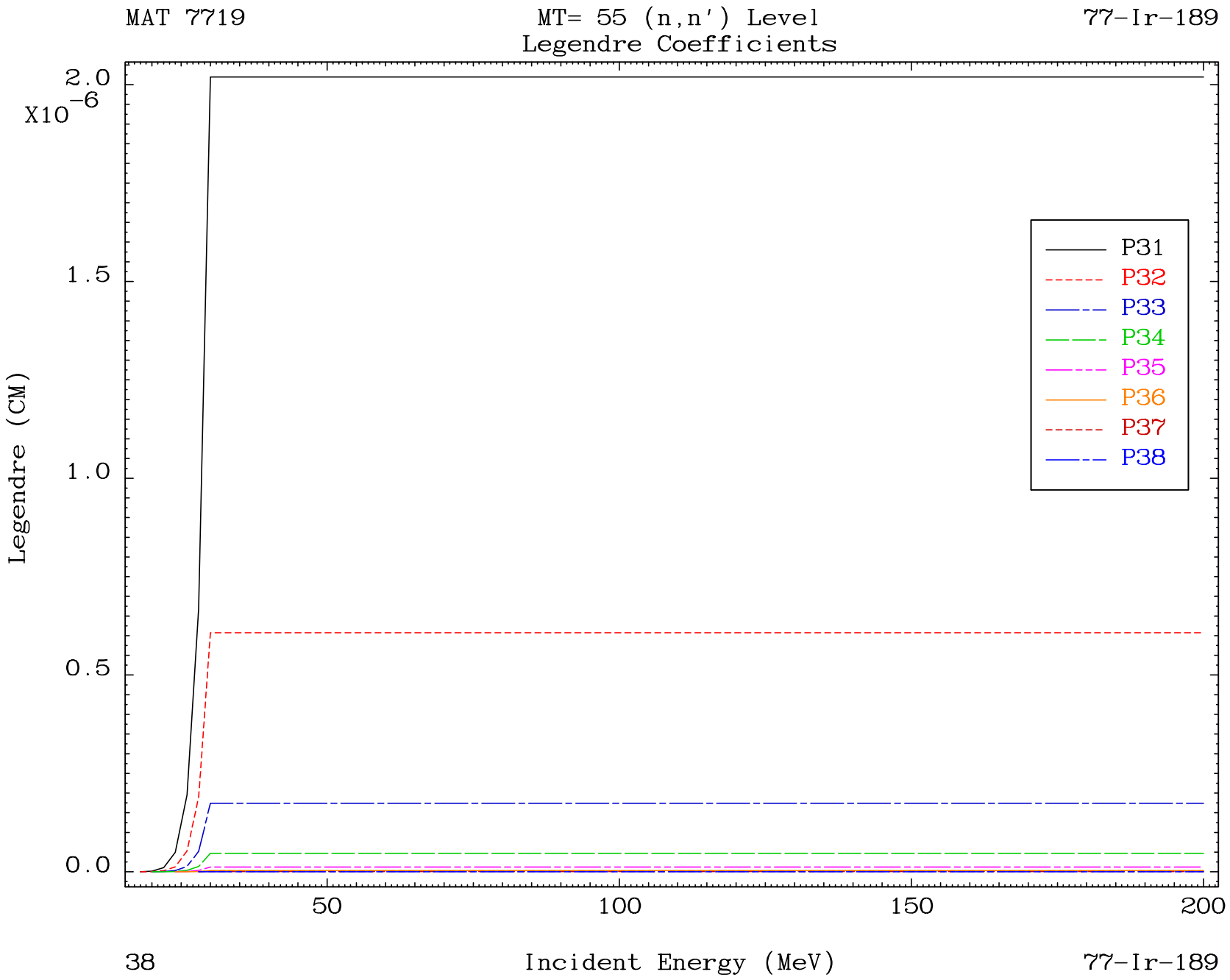

MAT 7719
MT= 54 (n,n') Level
Legendre Coefficients
77-Ir-189
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
0.015
0.010
0.005
0.000
Legendre (CM)
50
100
150
200
33
Incident Energy (MeV)
77-Ir-189

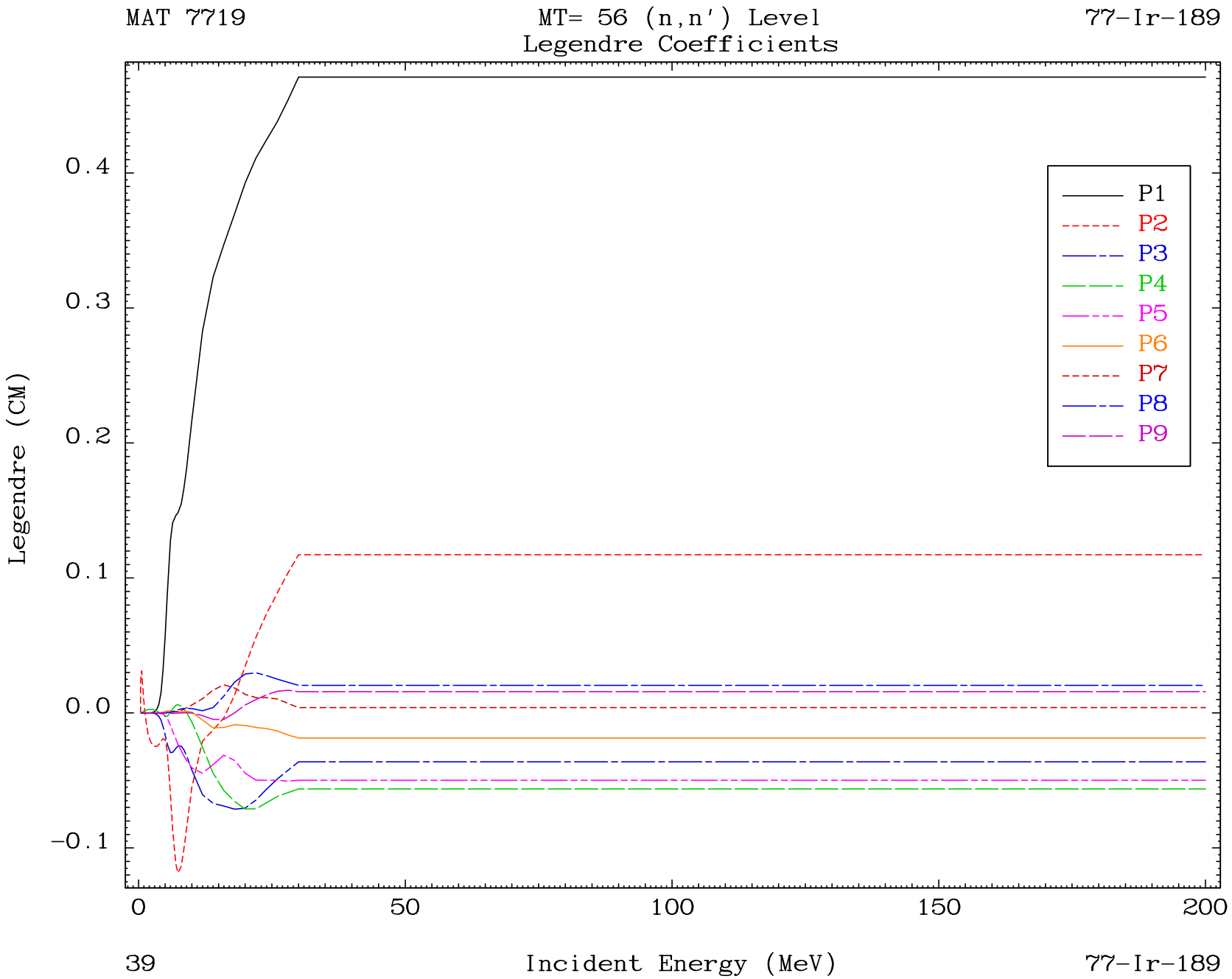

MAT 7719
MT= 54 (n,n') Level
Legendre Coefficients
77-Ir-189
X10 -6
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P31
P32
P33
P34
P35
P36
P37
P38
50
100
150
200
34
Incident Energy (MeV)
77-Ir-189

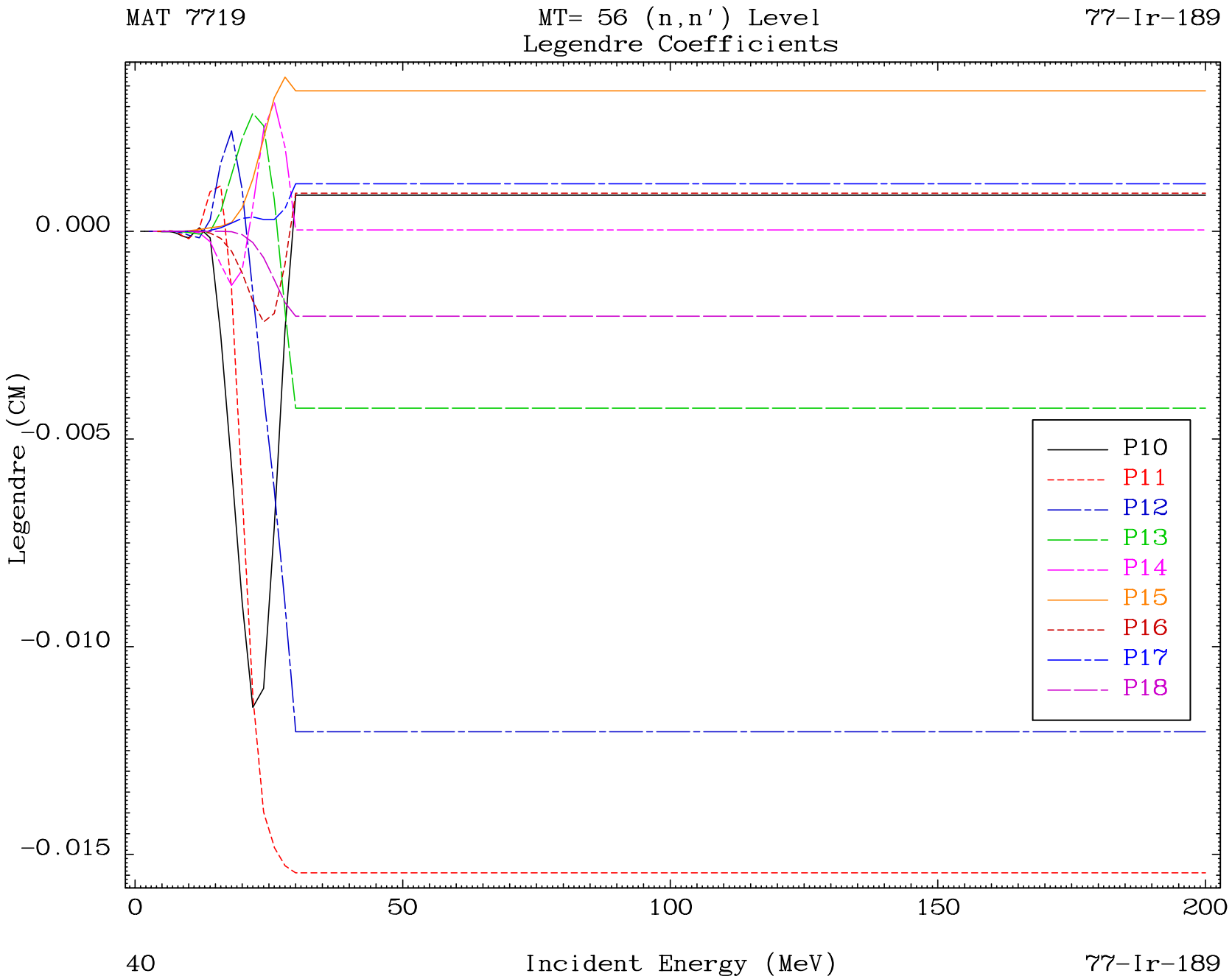

MAT 7719
MT= 55 (n,n') Level
Legendre Coefficients
77-Ir-189
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
0
50
100
150
200
35
Incident Energy (MeV)
77-Ir-189

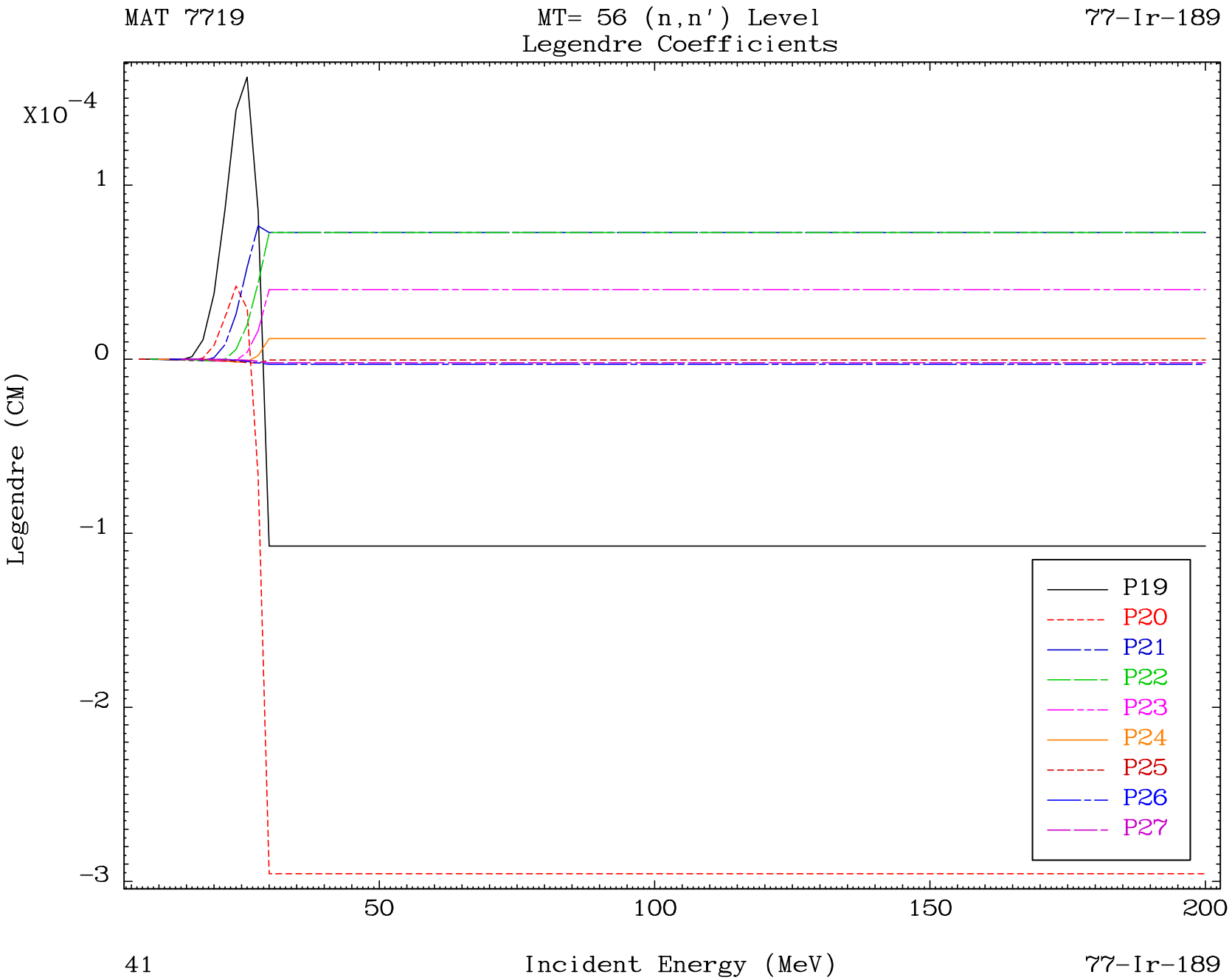

MAT 7719
MT= 55 (n,n') Level
Legendre Coefficients
77-Ir-189
0.06
0.04
0.02
0.00
-0.02
Legendre (CM)
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0
50
100
150
200
36
Incident Energy (MeV)
77-Ir-189

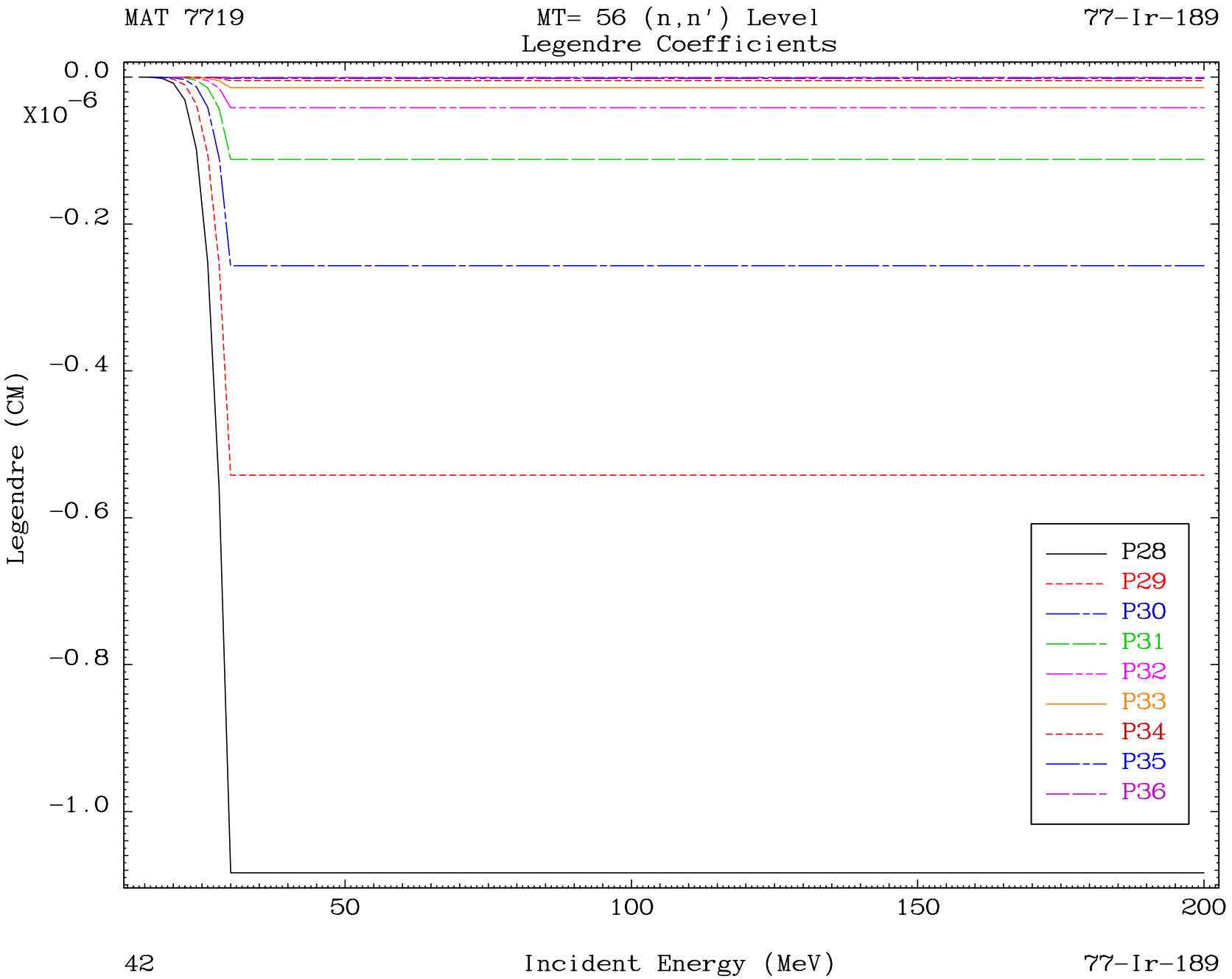

MAT 7719
MT= 55 (n,n') Level
Legendre Coefficients
77-Ir-189
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
0.015
0.010
0.005
0.000
Legendre (CM)
50
100
150
200
37
Incident Energy (MeV)
77-Ir-189

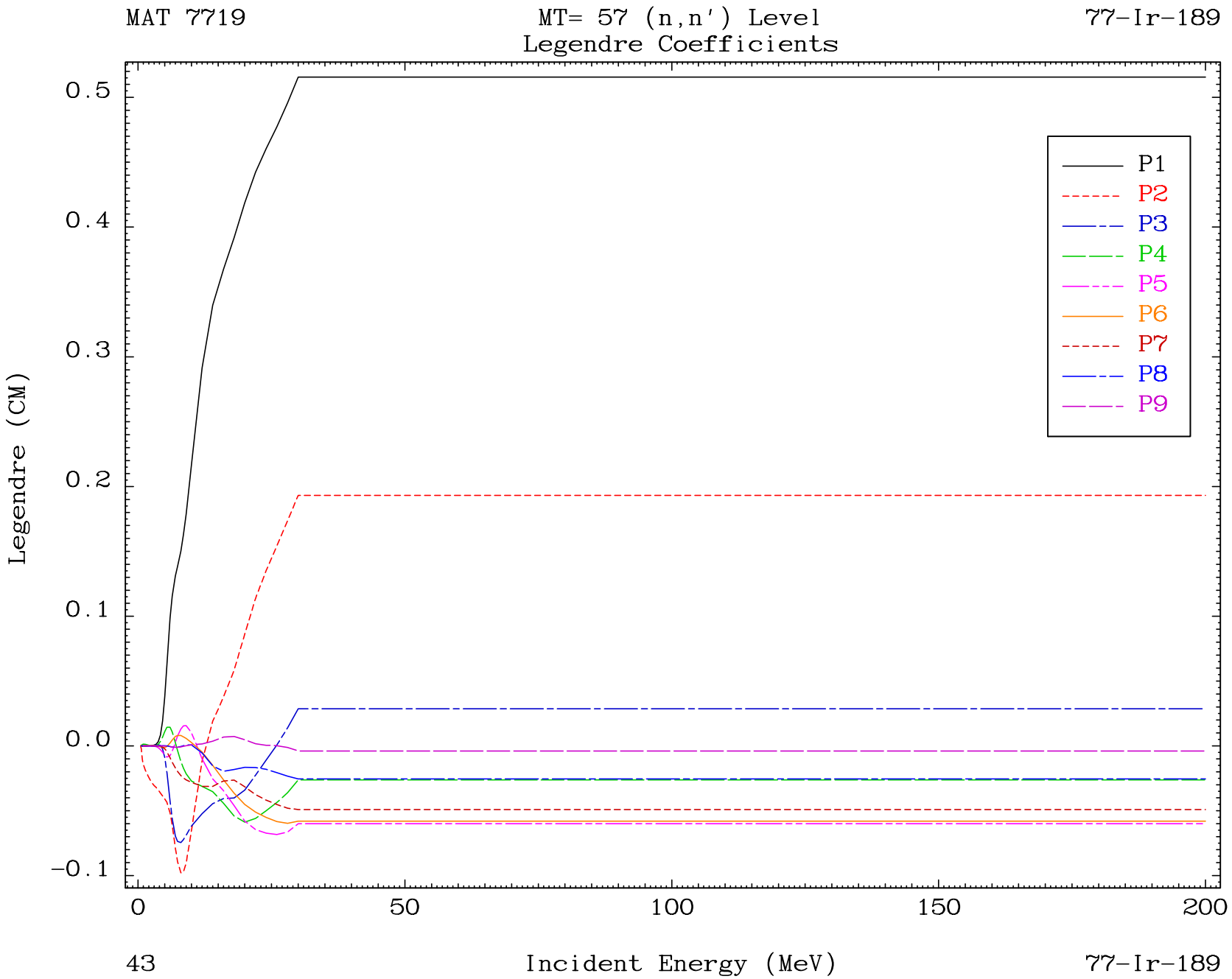

MAT 7719
MT= 55 (n,n') Level
Legendre Coefficients
77-Ir-189
X10 -6
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P31
P32
P33
P34
P35
P36
P37
P38
50
100
150
200
38
Incident Energy (MeV)
77-Ir-189

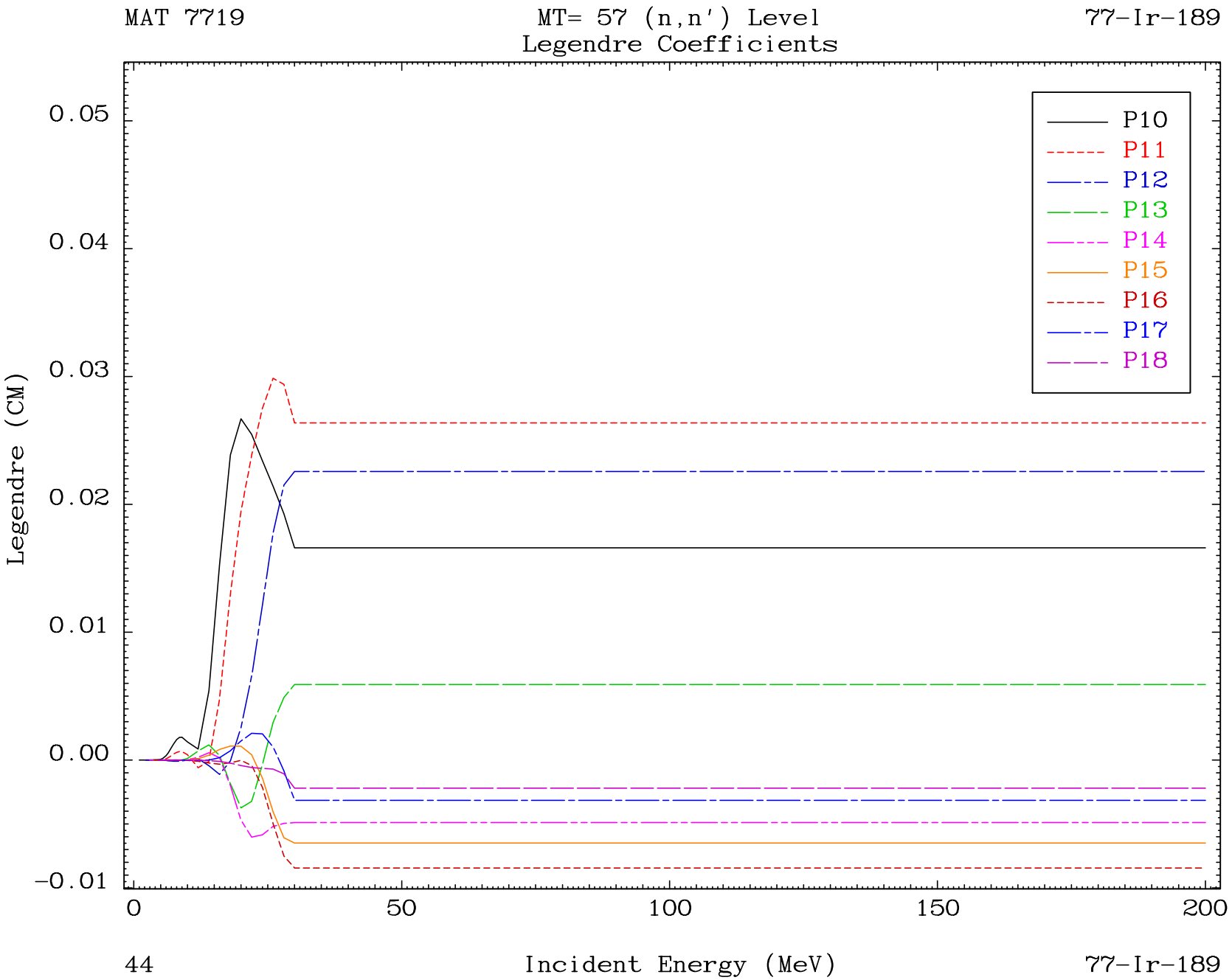

MAT 7719
MT= 56 (n,n') Level
Legendre Coefficients
77-Ir-189
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
-0.1
0
50
100
150
200
39
Incident Energy (MeV)
77-Ir-189
P1
P2
P3
P4
P5
P6
P7
P8
P9

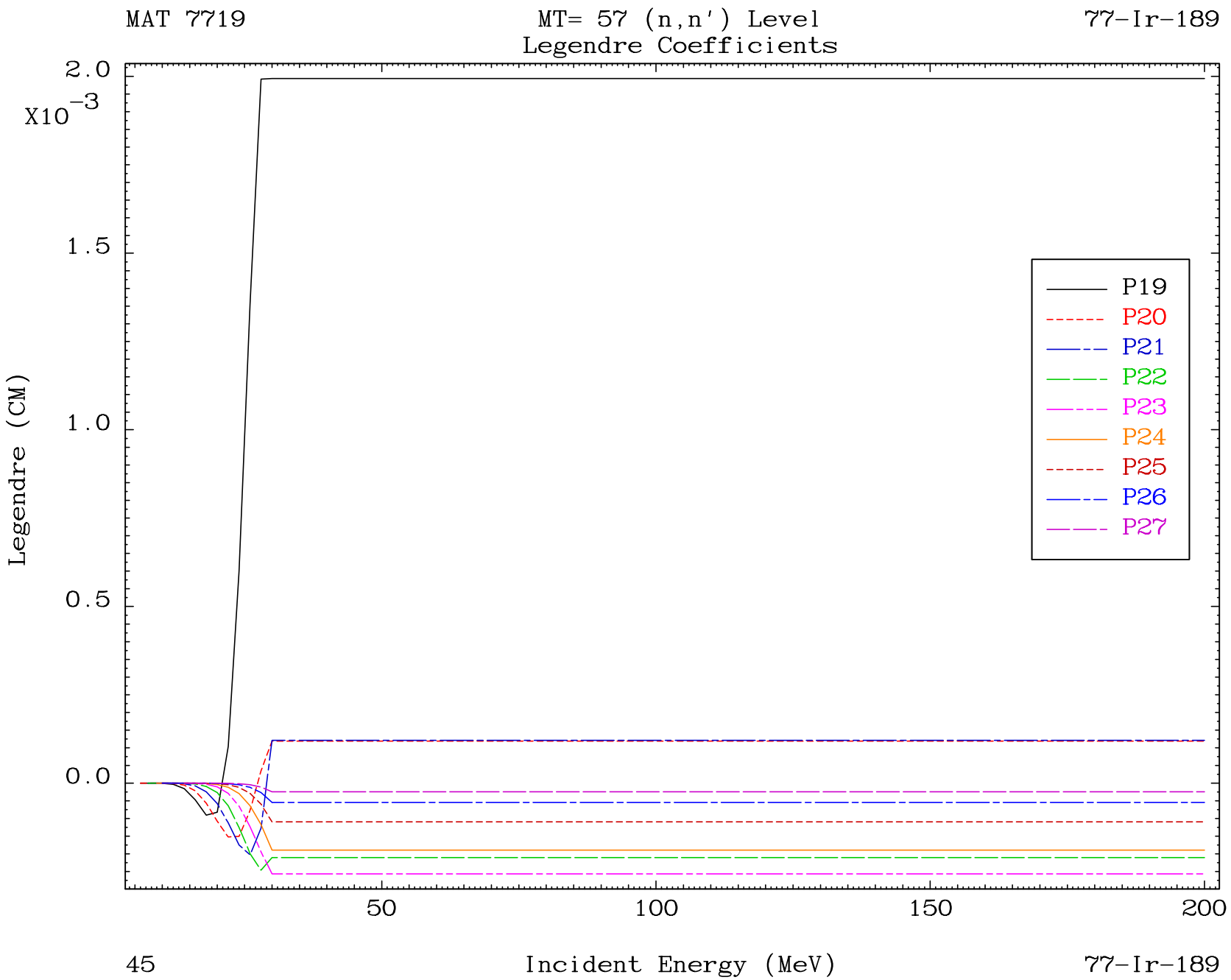

MAT 7719
MT= 56 (n,n') Level
Legendre Coefficients
77-Ir-189
0.000
-0.005
-0.010
-0.015
Legendre l (CM)
0
50
100
150
200
40
Incident Energy (MeV)
77-Ir-189
P10
P11
P12
P13
P14
P15
P16
P17
P18

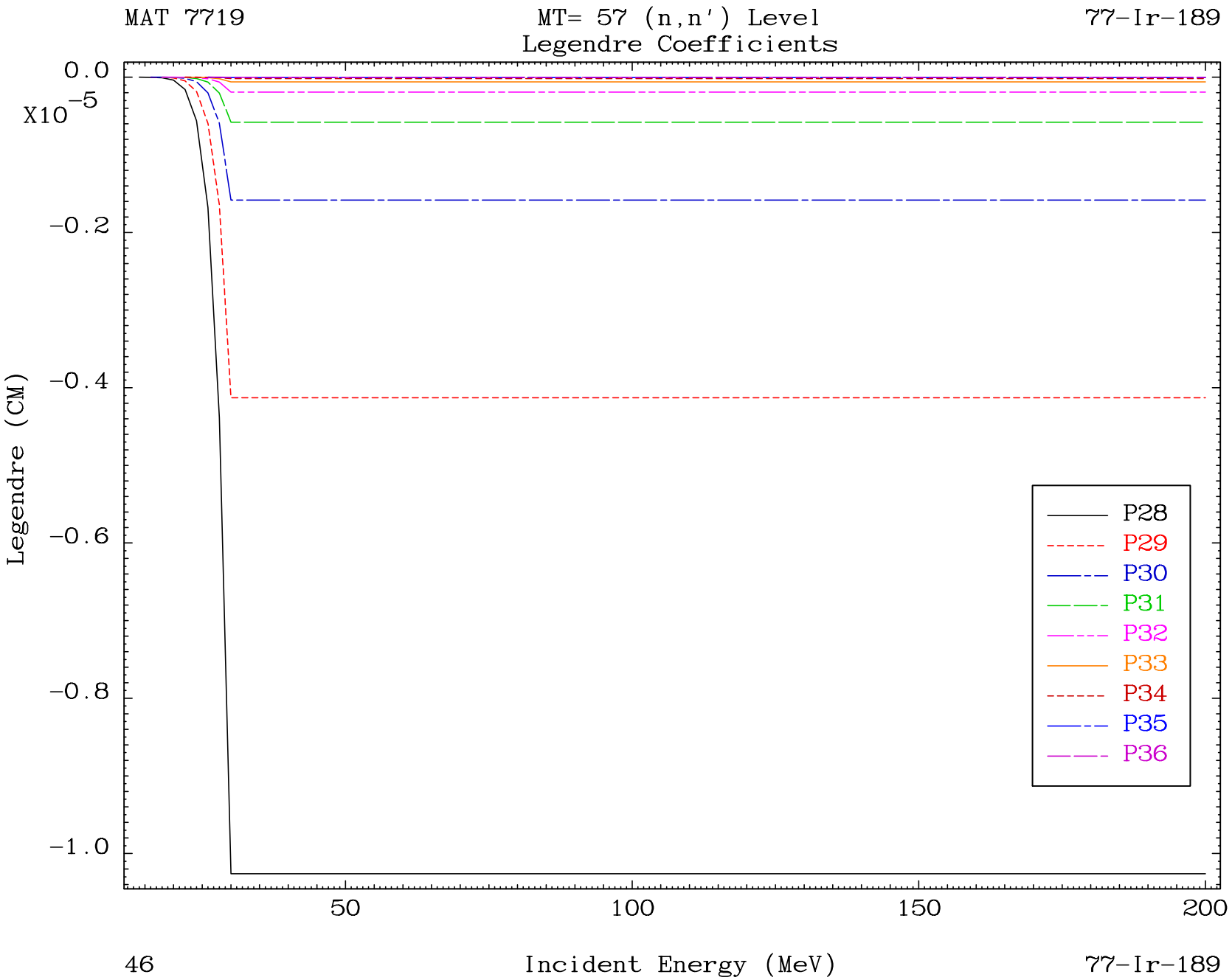

MAT 7719
MT= 56 (n,n') Level
Legendre Coefficients
77-Ir-189
X10^-4
1
0
-1
-2
-3
Legendre (CM)
50
100
150
200
Incident Energy (MeV)
41
77-Ir-189
P19
P20
P21
P22
P23
P24
P25
P26
P27

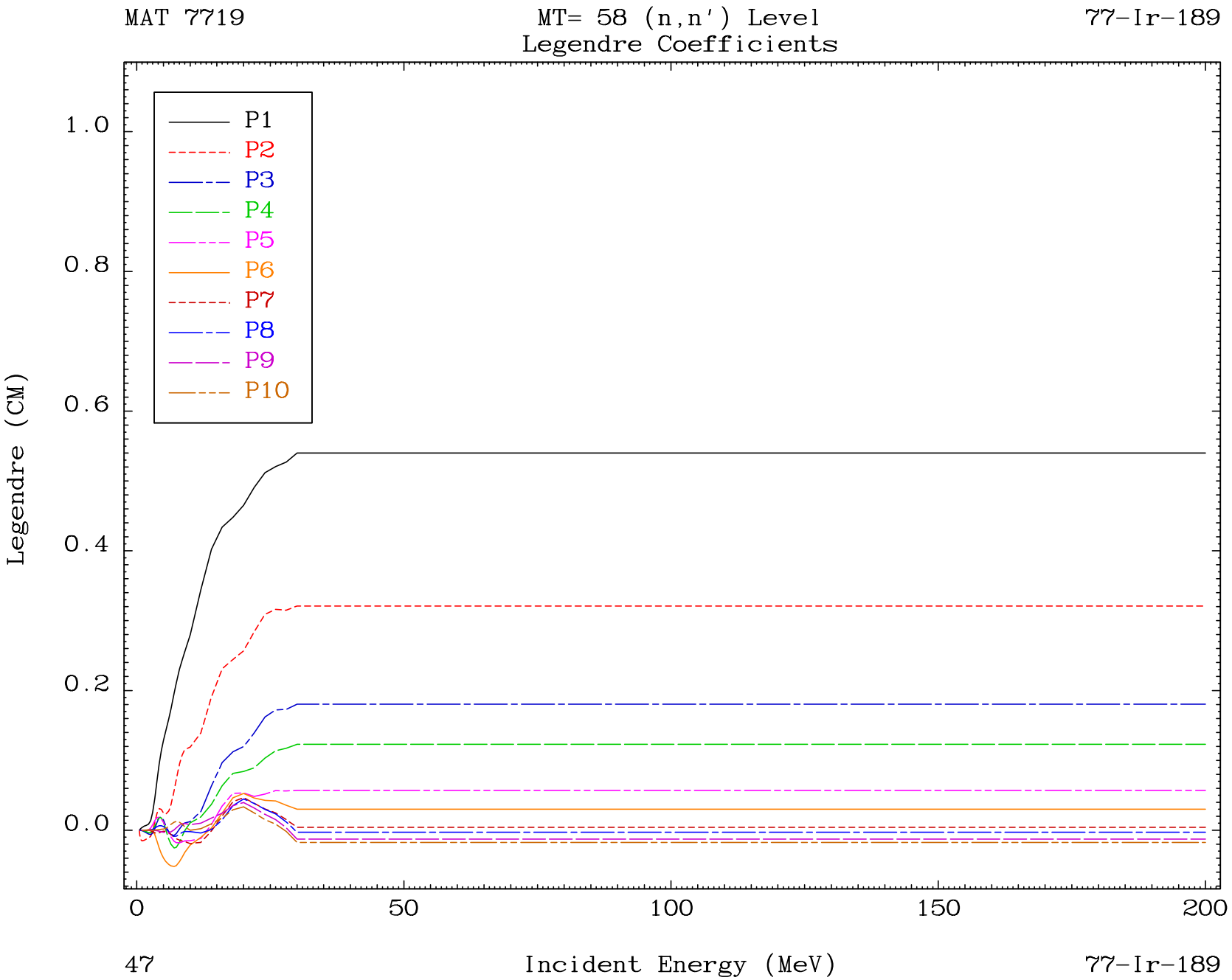

MAT 7719
MT= 56 (n,n') Level
Legendre Coefficients
77-Ir-189
0.0
X10 −6
−0.2
−0.4
−0.6
−0.8
−1.0
Legendre (CM)
50
100
150
200
P28
P29
P30
P31
P32
P33
P34
P35
P36
42
Incident Energy (MeV)
77-Ir-189

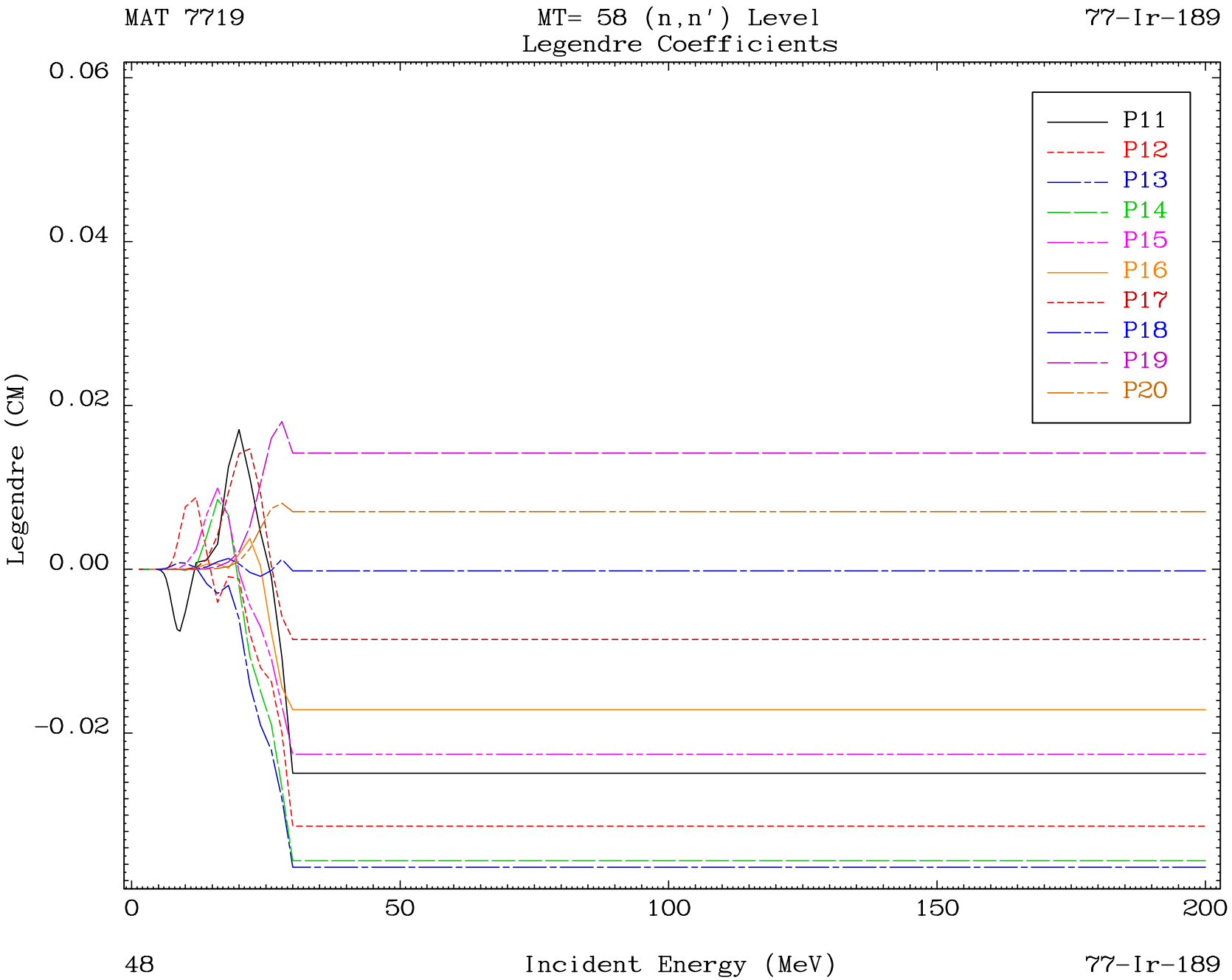

MAT 7719
MT= 57 (n,n') Level
Legendre Coefficients
77-Ir-189
Legendre (CM)
0.5
0.4
0.3
0.2
0.1
0.0
-0.1
0
50
100
150
200
Incident Energy (MeV)
43
77-Ir-189
P1
P2
P3
P4
P5
P6
P7
P8
P9

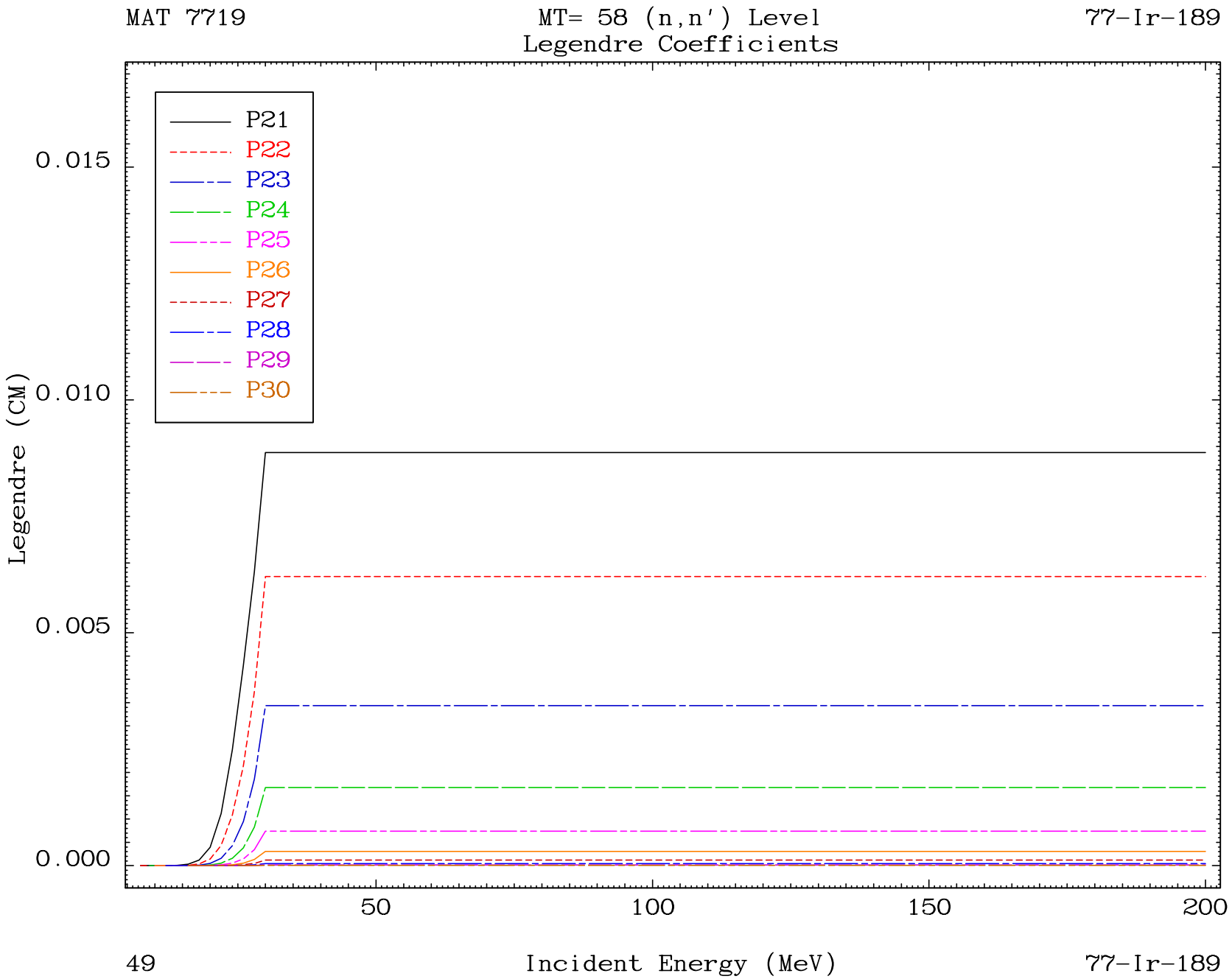

MAT 7719
MT= 57 (n,n') Level
Legendre Coefficients
77-Ir-189
0.05
0.04
0.03
0.02
0.01
0.00
-0.01
Legendre (CM)
0
50
100
150
200
Incident Energy (MeV)
P10
P11
P12
P13
P14
P15
P16
P17
P18
44
77-Ir-189

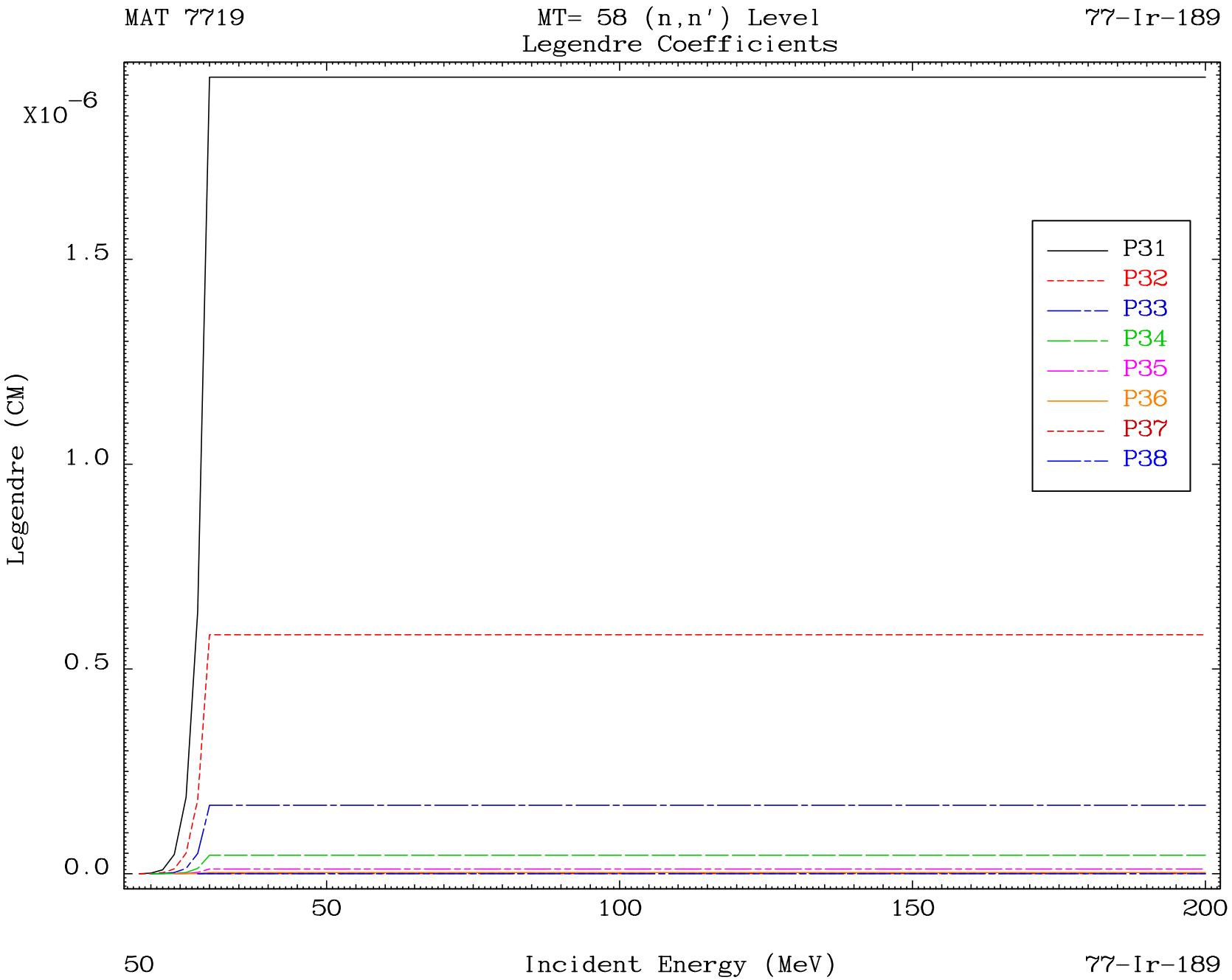

MAT 7719
MT= 57 (n,n') Level
Legendre Coefficients
77-Ir-189
2.0
X10^-3
1.5
1.0
0.5
0.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
45
Incident Energy (MeV)
77-Ir-189

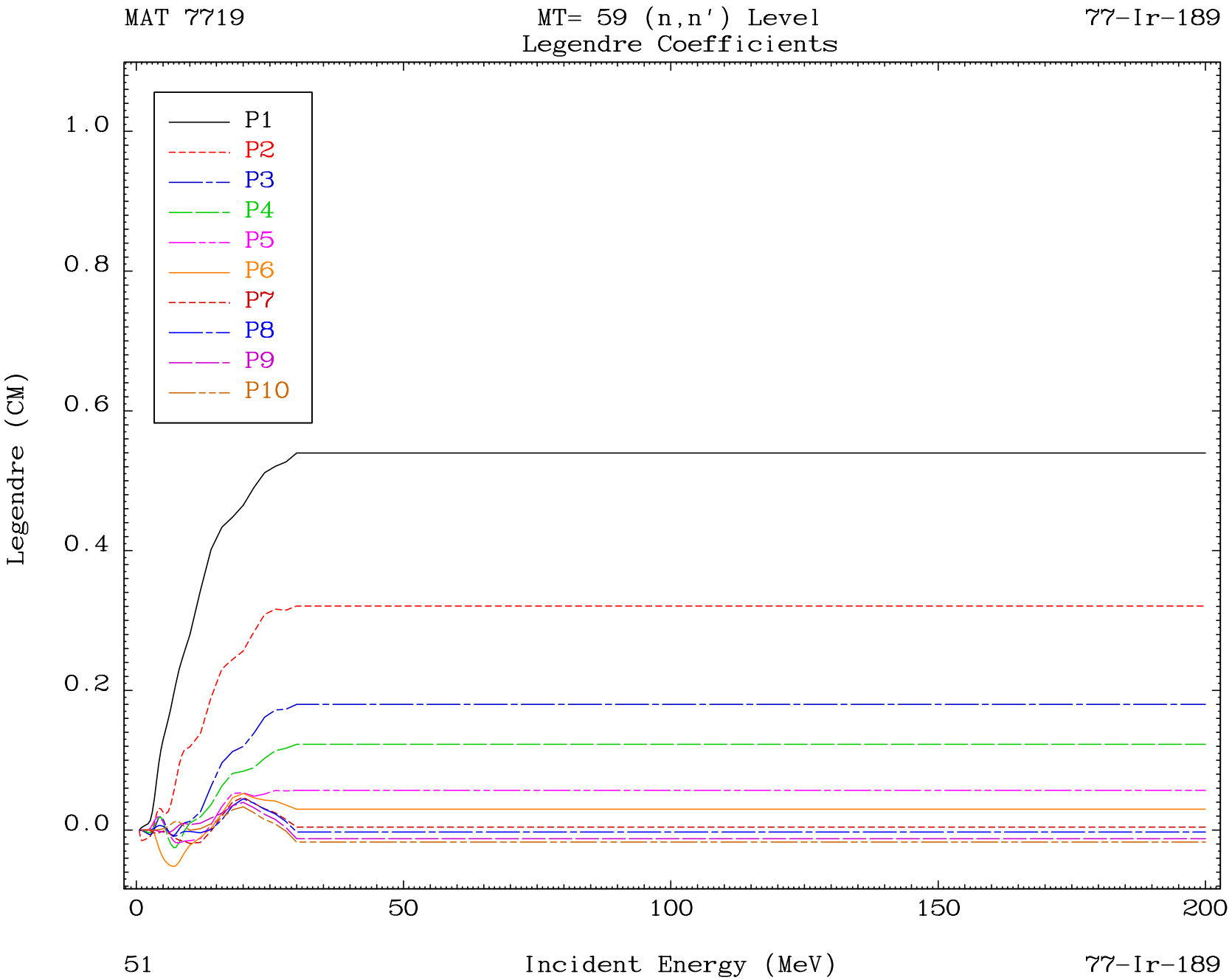

MAT 7719
MT= 57 (n,n') Level
Legendre Coefficients
77-Ir-189
0.0
X10^-5
-0.2
-0.4
-0.6
-0.8
-1.0
Legendre (CM)
50
100
150
200
46
Incident Energy (MeV)
77-Ir-189
P28
P29
P30
P31
P32
P33
P34
P35
P36

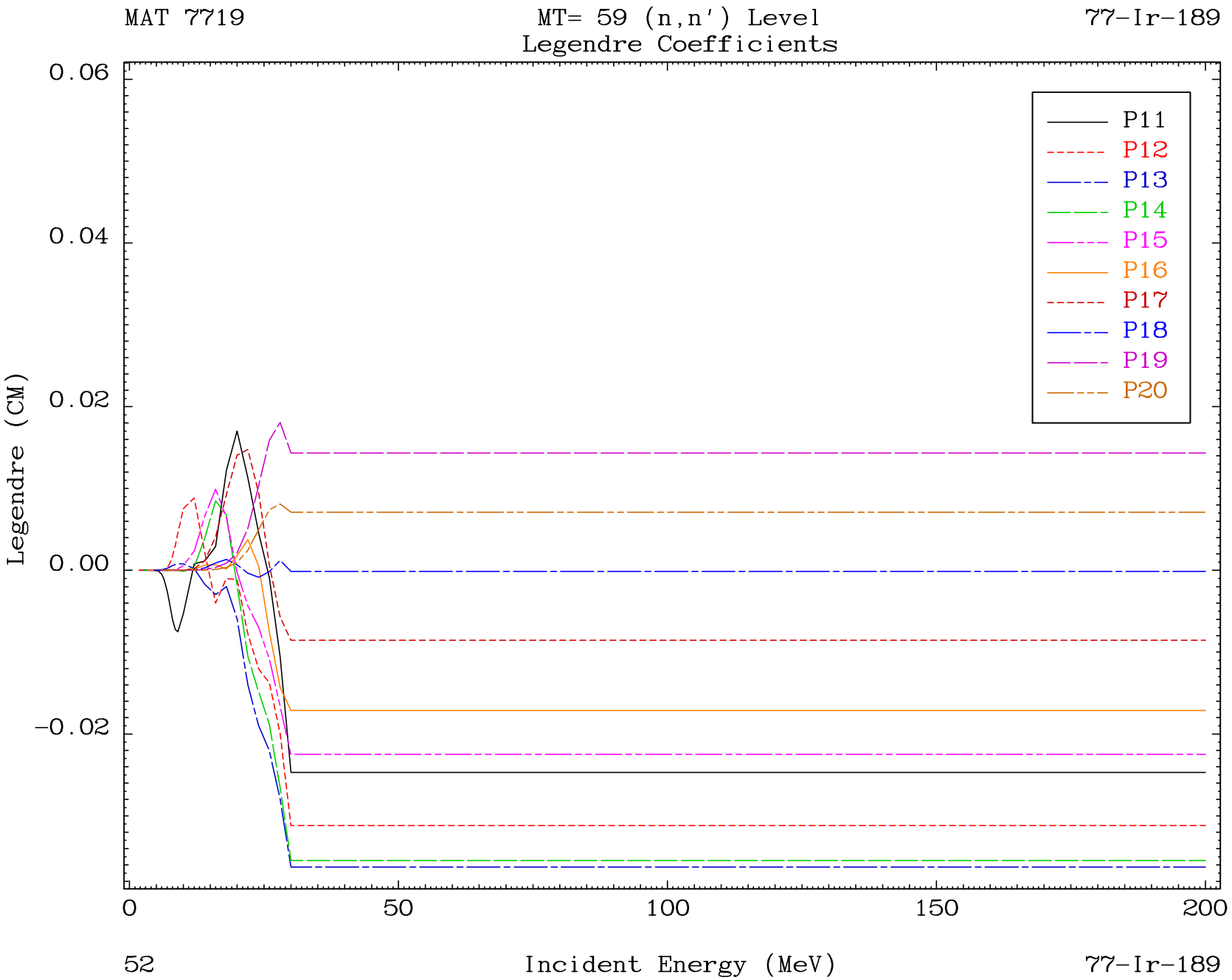

MAT 7719
MT= 58 (n,n') Level
Legendre Coefficients
77-Ir-189
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
0
50
100
150
200
47
Incident Energy (MeV)
77-Ir-189

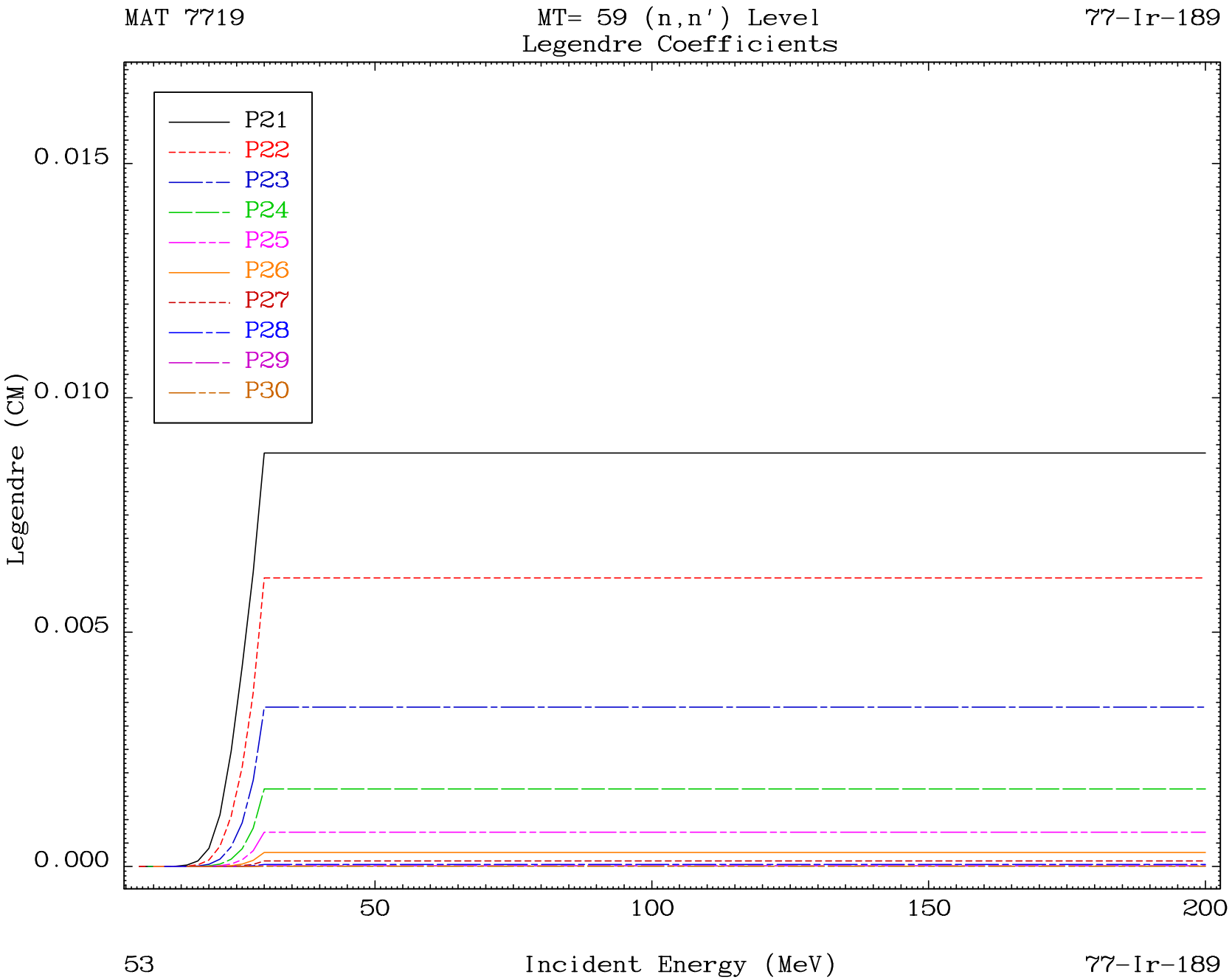

MAT 7719
MT= 58 (n,n') Level
Legendre Coefficients
77-Ir-189
0.06
0.04
0.02
0.00
-0.02
Legendre (CM)
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0
50
100
150
200
48
Incident Energy (MeV)
77-Ir-189

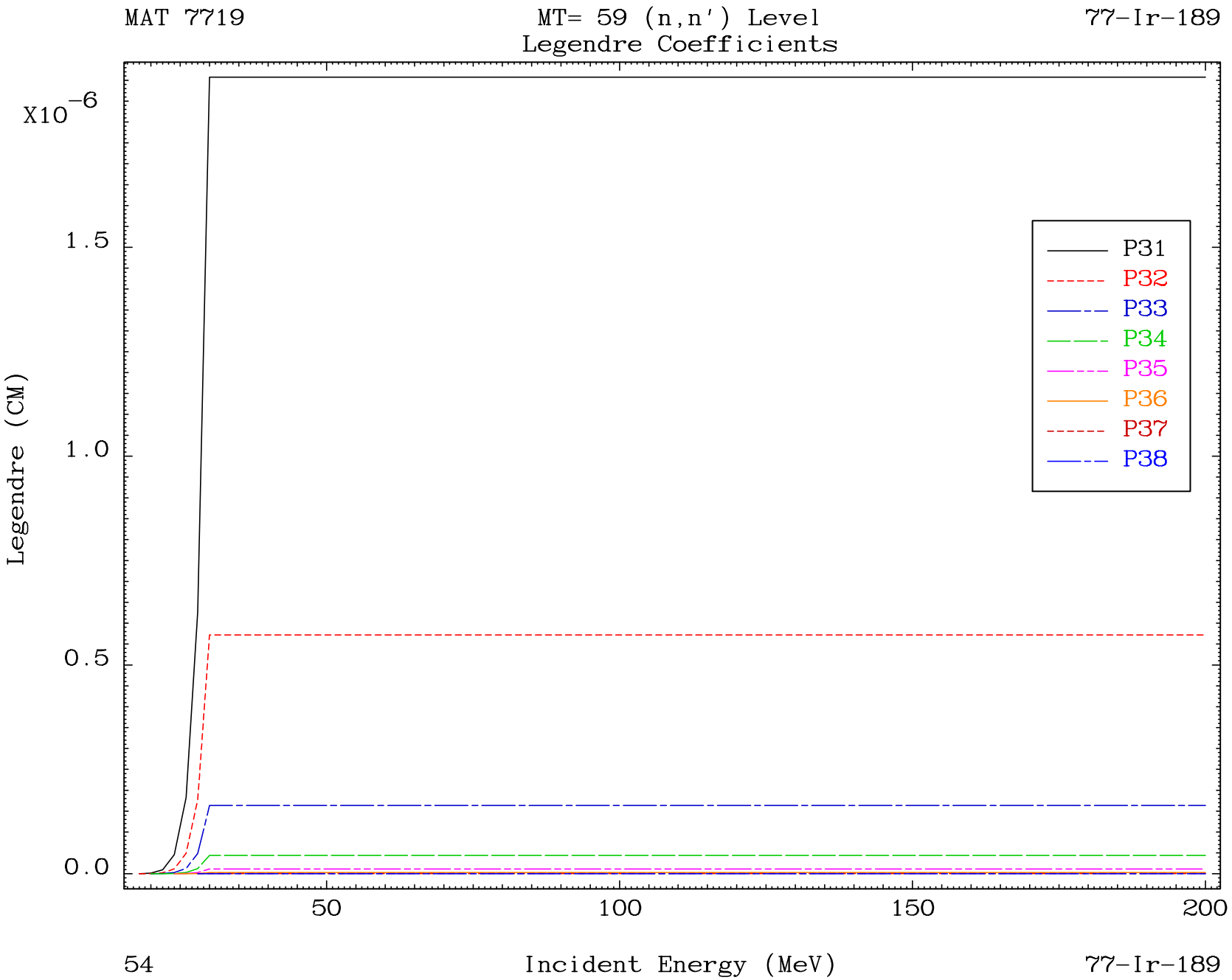

MAT 7719
MT= 58 (n,n') Level
Legendre Coefficients
77-Ir-189
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
0.015
0.010
0.005
0.000
Legendre (CM)
50
100
150
200
49
Incident Energy (MeV)
77-Ir-189

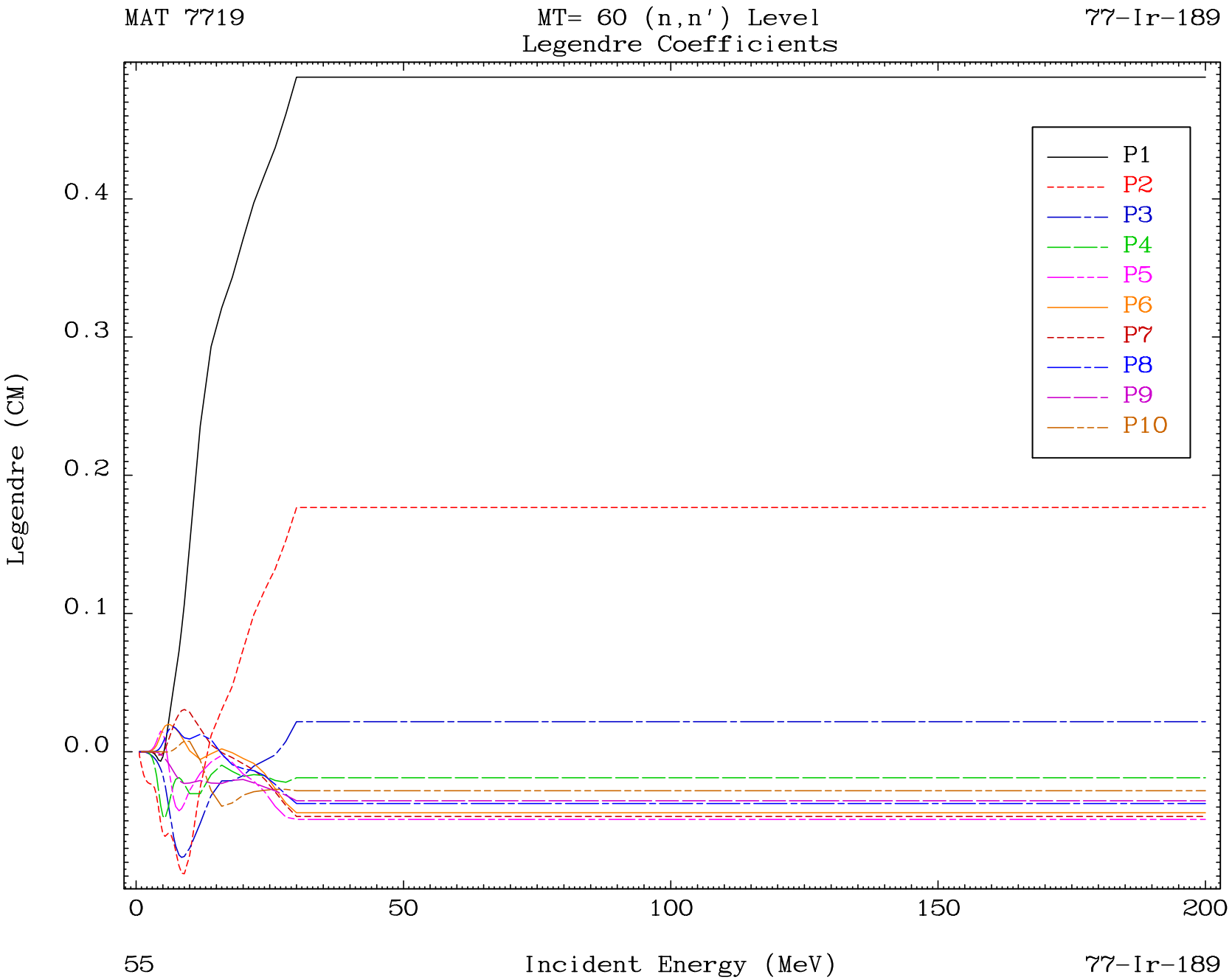

MAT 7719
MT= 58 (n,n') Level
Legendre Coefficients
77-Ir-189
X10^-6
1.5
1.0
0.5
0.0
Legendre (CM)
P31
P32
P33
P34
P35
P36
P37
P38
50
100
150
200
50
Incident Energy (MeV)
77-Ir-189

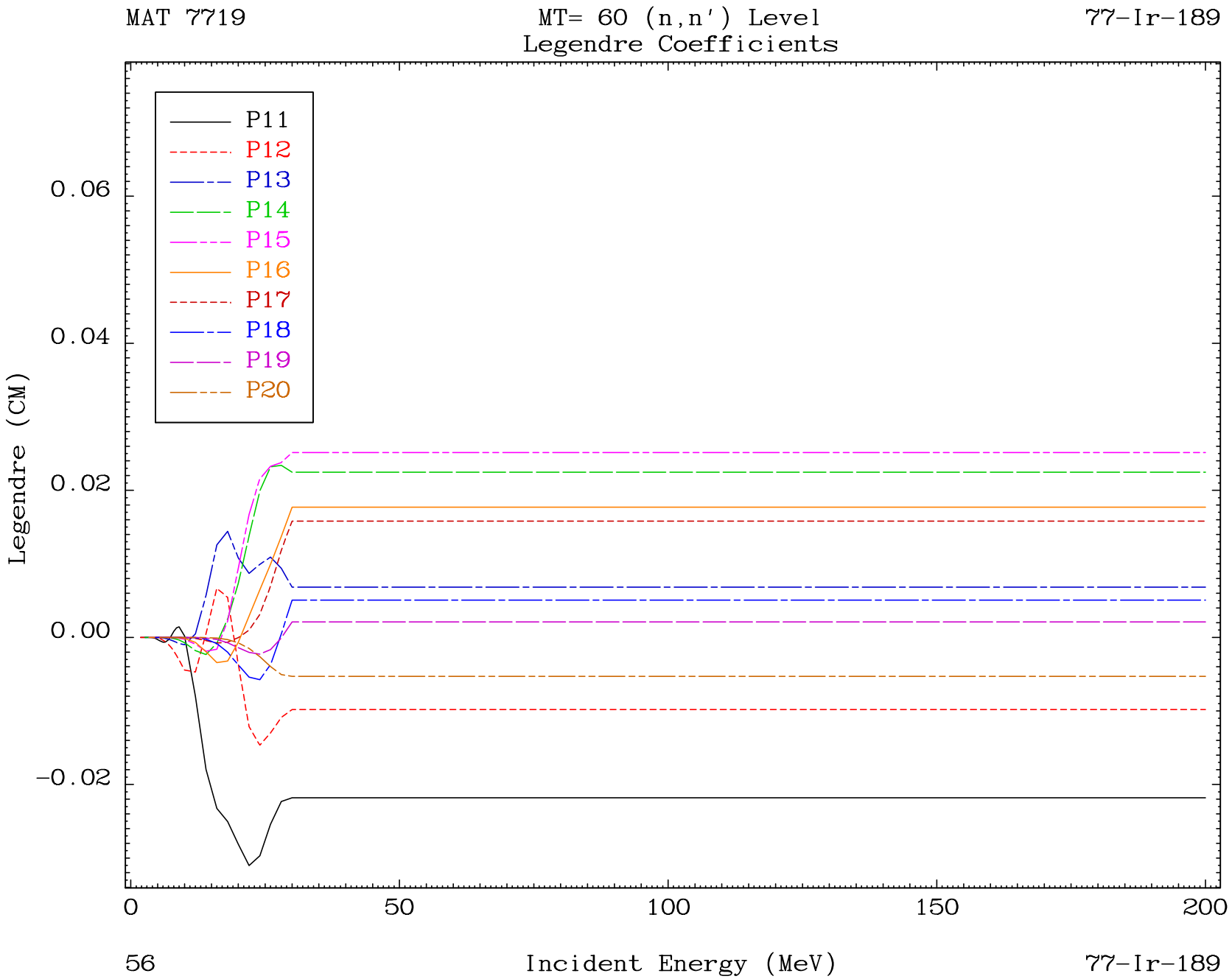

MAT 7719
MT= 59 (n,n') Level
Legendre Coefficients
77-Ir-189
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
0
50
100
150
200
51
Incident Energy (MeV)
77-Ir-189

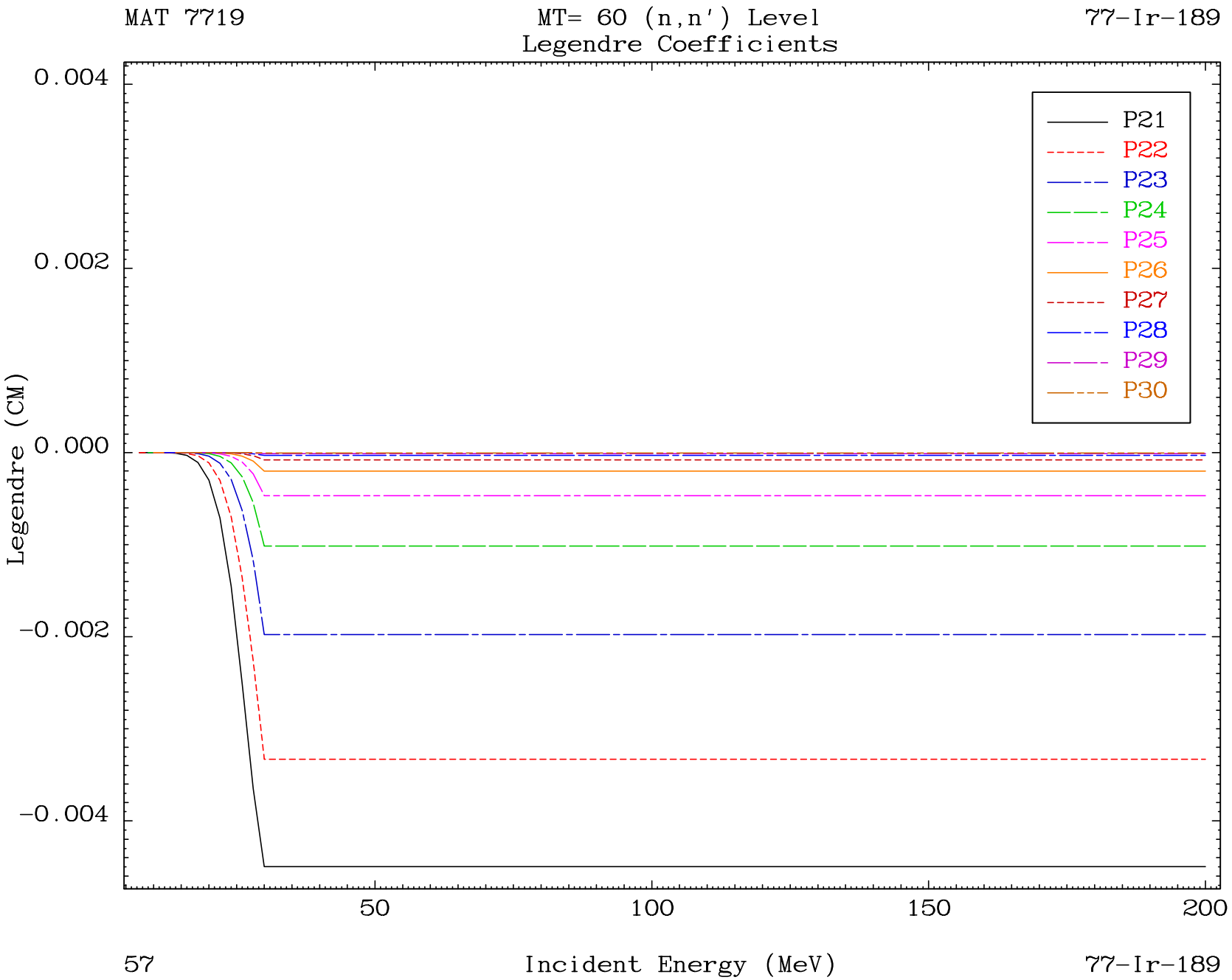

MAT 7719
MT= 59 (n,n') Level
Legendre Coefficients
77-Ir-189
0.06
0.04
0.02
0.00
-0.02
Legendre (CM)
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0
50
100
150
200
52
Incident Energy (MeV)
77-Ir-189

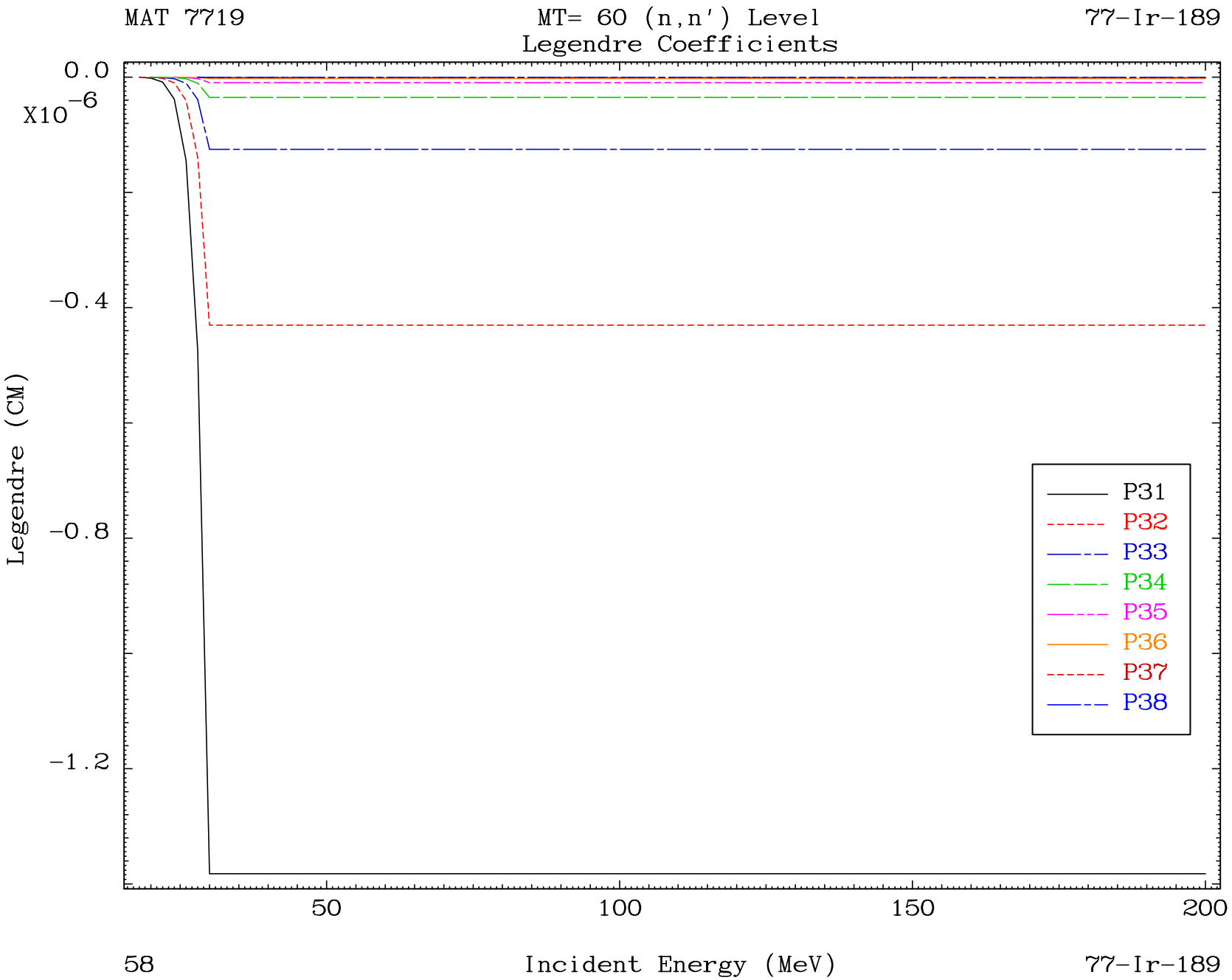

MAT 7719
MT= 59 (n,n') Level
Legendre Coefficients
77-Ir-189
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
0.015
0.010
0.005
0.000
Legendre (CM)
50
100
150
200
53
Incident Energy (MeV)
77-Ir-189

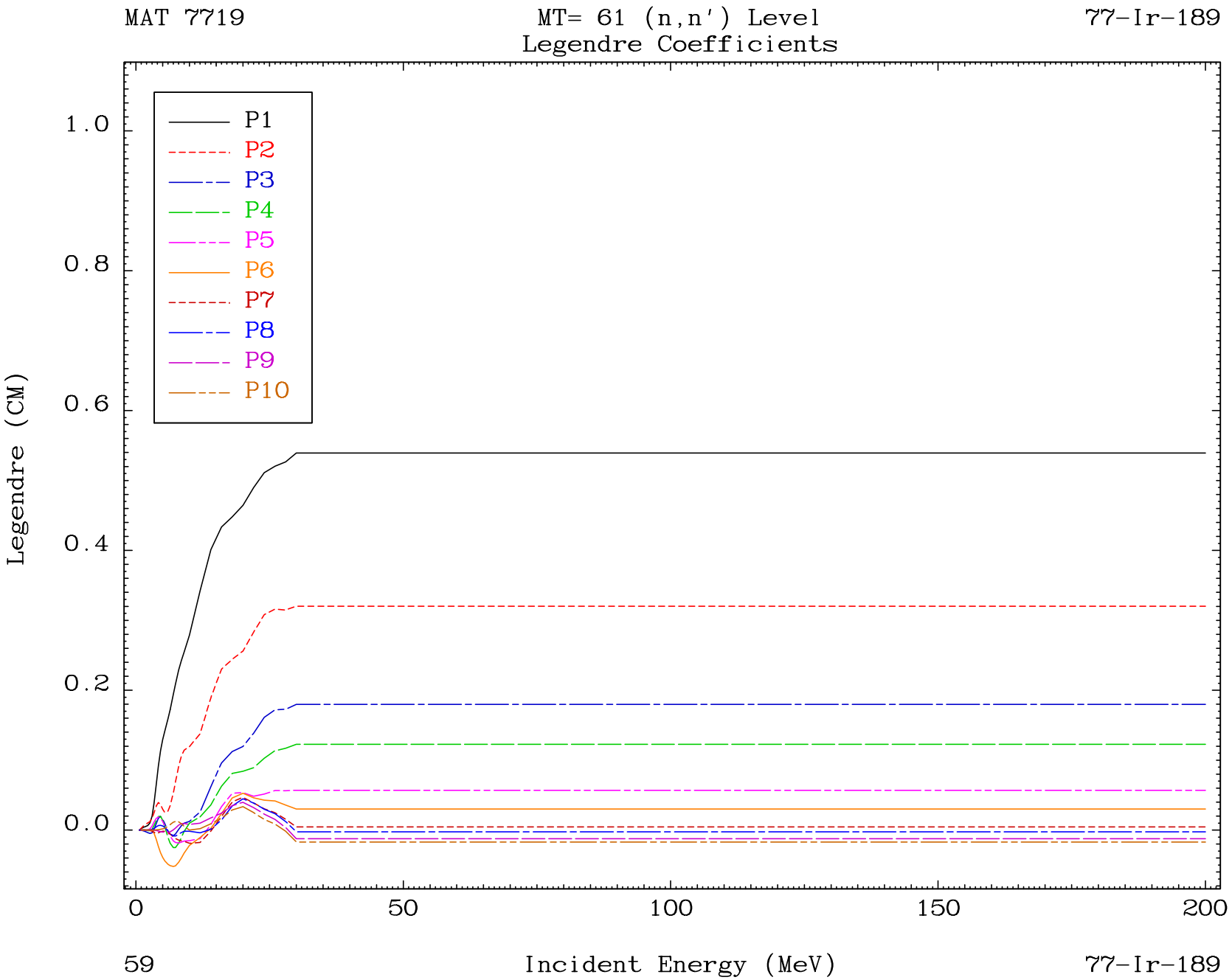

MAT 7719
MT= 59 (n,n') Level
Legendre Coefficients
77-Ir-189
X10^-6
1.5
1.0
0.5
0.0
Legendre (CM)
P31
P32
P33
P34
P35
P36
P37
P38
50
100
150
200
54
Incident Energy (MeV)
77-Ir-189

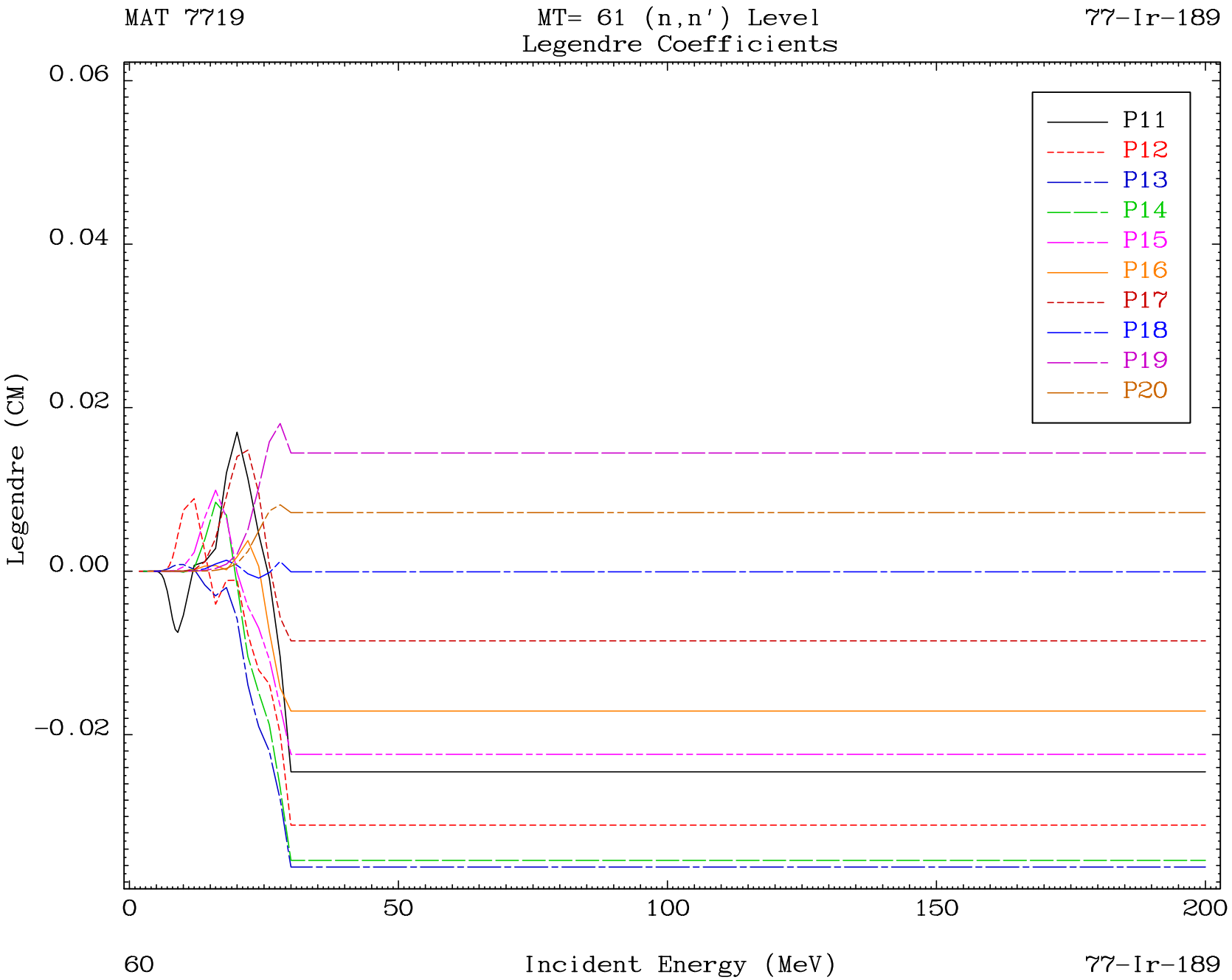

MAT 7719
MT= 60 (n,n') Level
Legendre Coefficients
77-Ir-189
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
55
Incident Energy (MeV)
77-Ir-189
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10

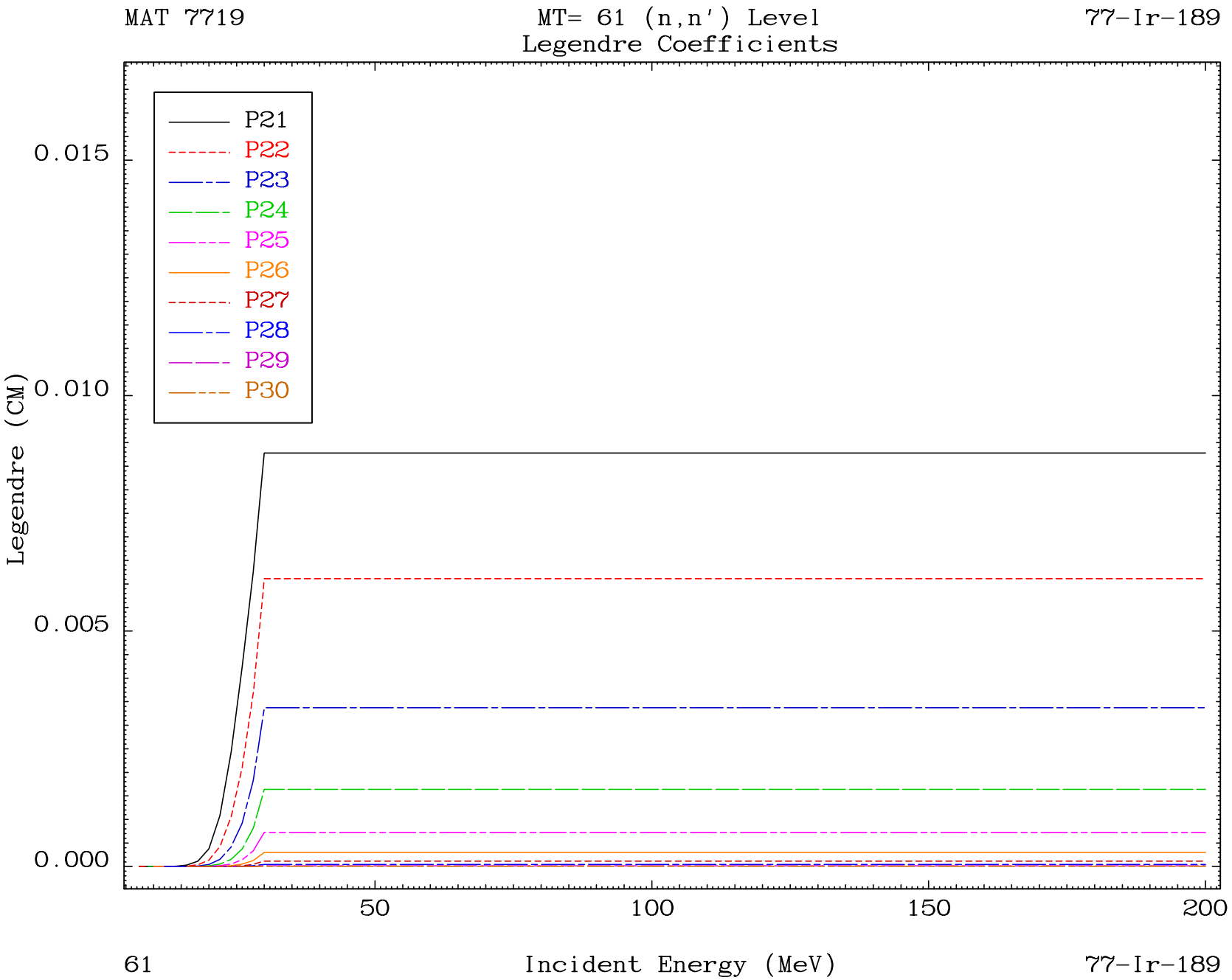

MAT 7719
MT= 60 (n,n') Level
Legendre Coefficients
77-Ir-189
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.06
0.04
0.02
0.00
-0.02
Legendre (CM)
0
50
100
150
200
56
Incident Energy (MeV)
77-Ir-189

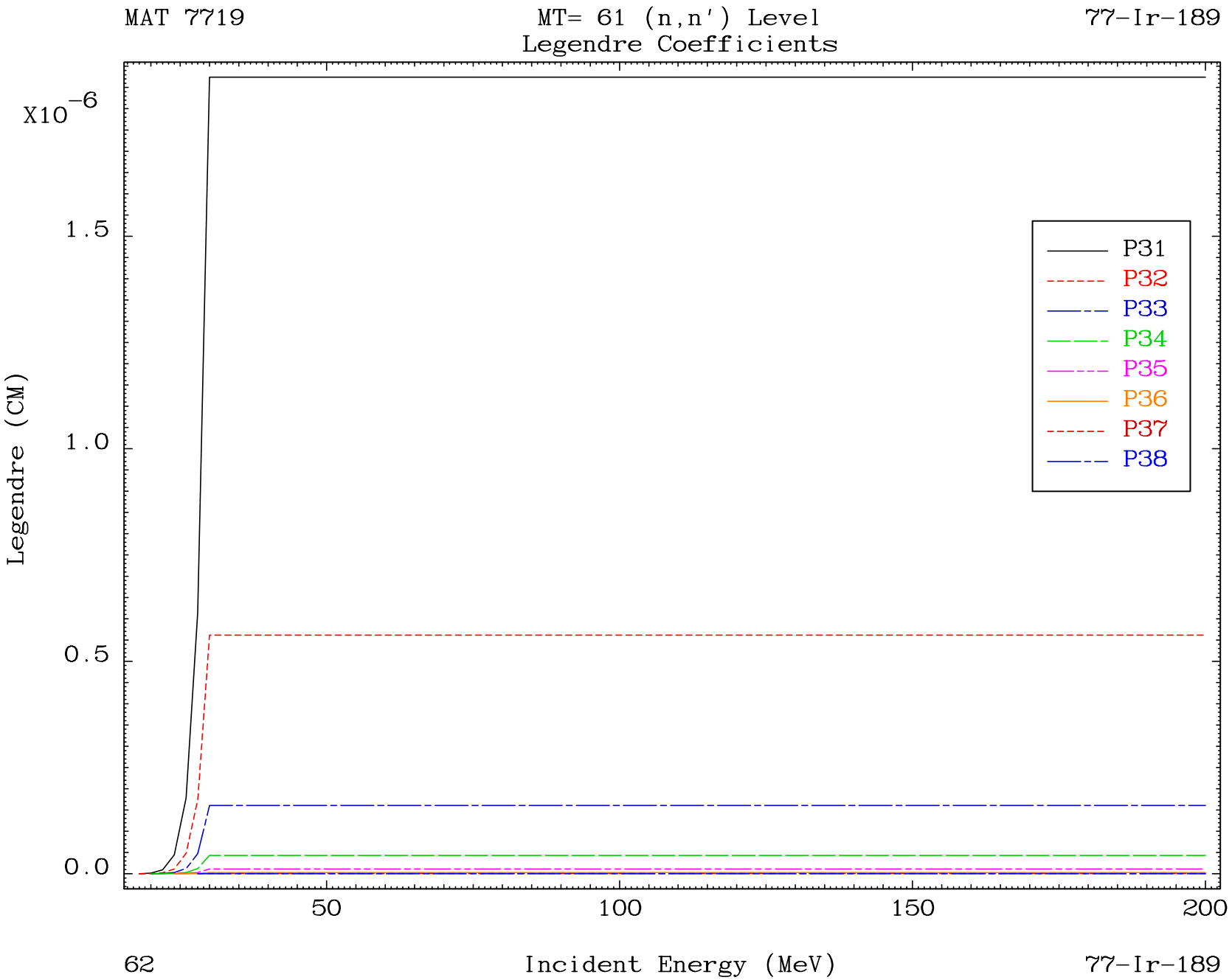

MAT 7719
MT= 60 (n,n') Level
Legendre Coefficients
77-Ir-189
0.004
0.002
0.000
-0.002
-0.004
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
50
100
150
200
57
Incident Energy (MeV)
77-Ir-189

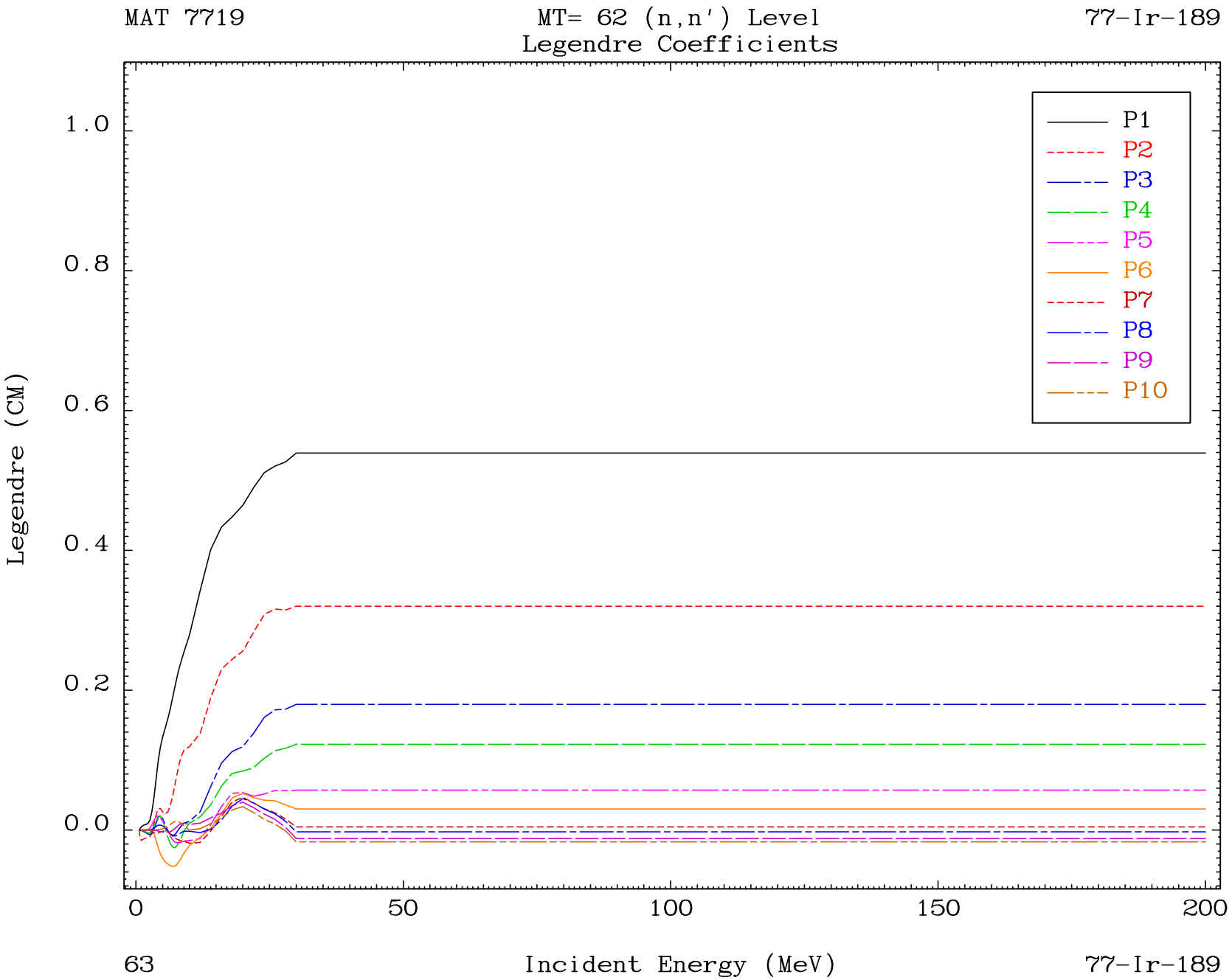

MAT 7719
MT= 60 (n,n') Level
Legendre Coefficients
77-Ir-189
0.0
X10^-6
-0.4
-0.8
-1.2
Legendre (CM)
50
100
150
200
58
Incident Energy (MeV)
77-Ir-189
P31
P32
P33
P34
P35
P36
P37
P38

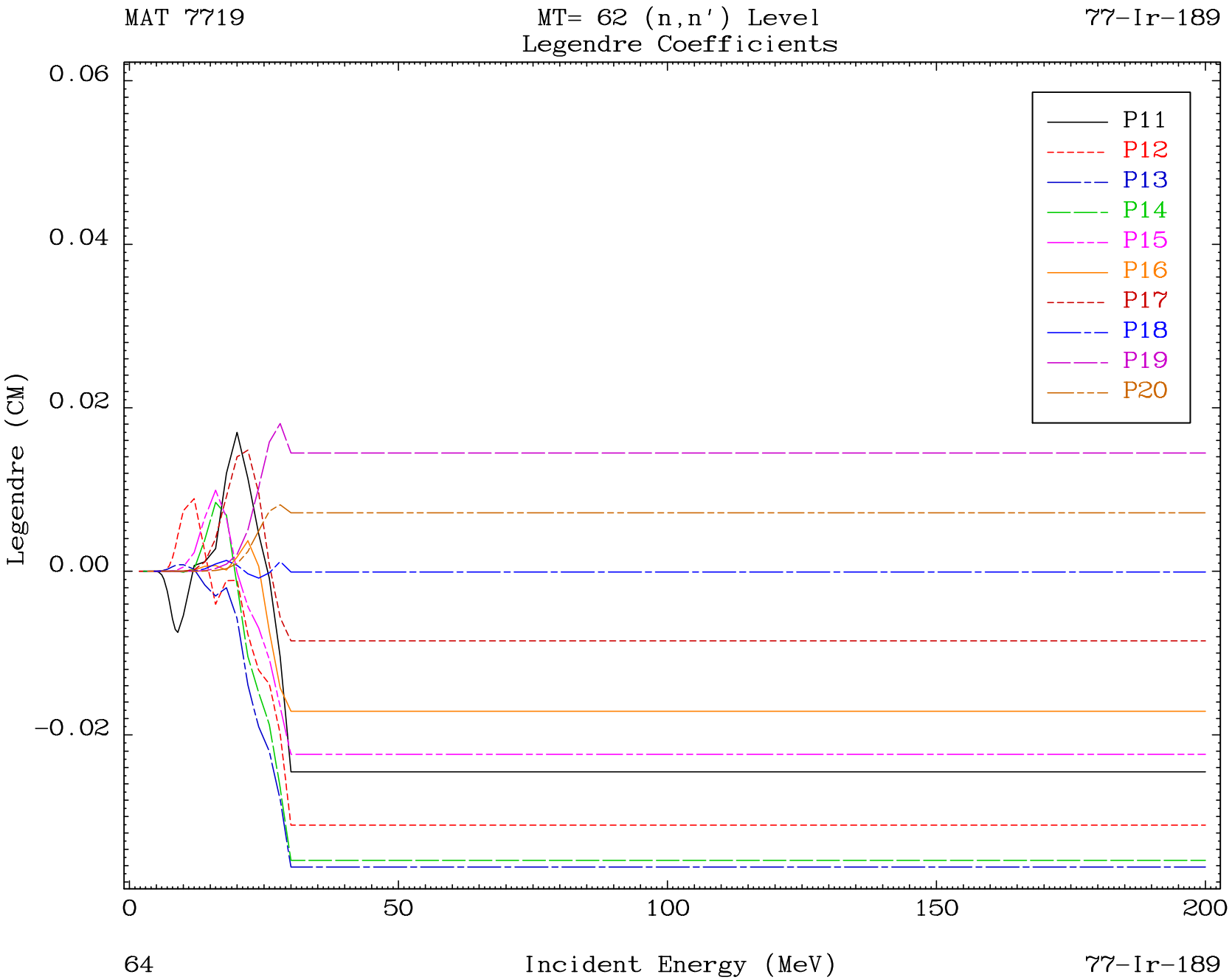

MAT 7719
MT= 61 (n,n') Level
Legendre Coefficients
77-Ir-189
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
0
50
100
150
200
59
Incident Energy (MeV)
77-Ir-189

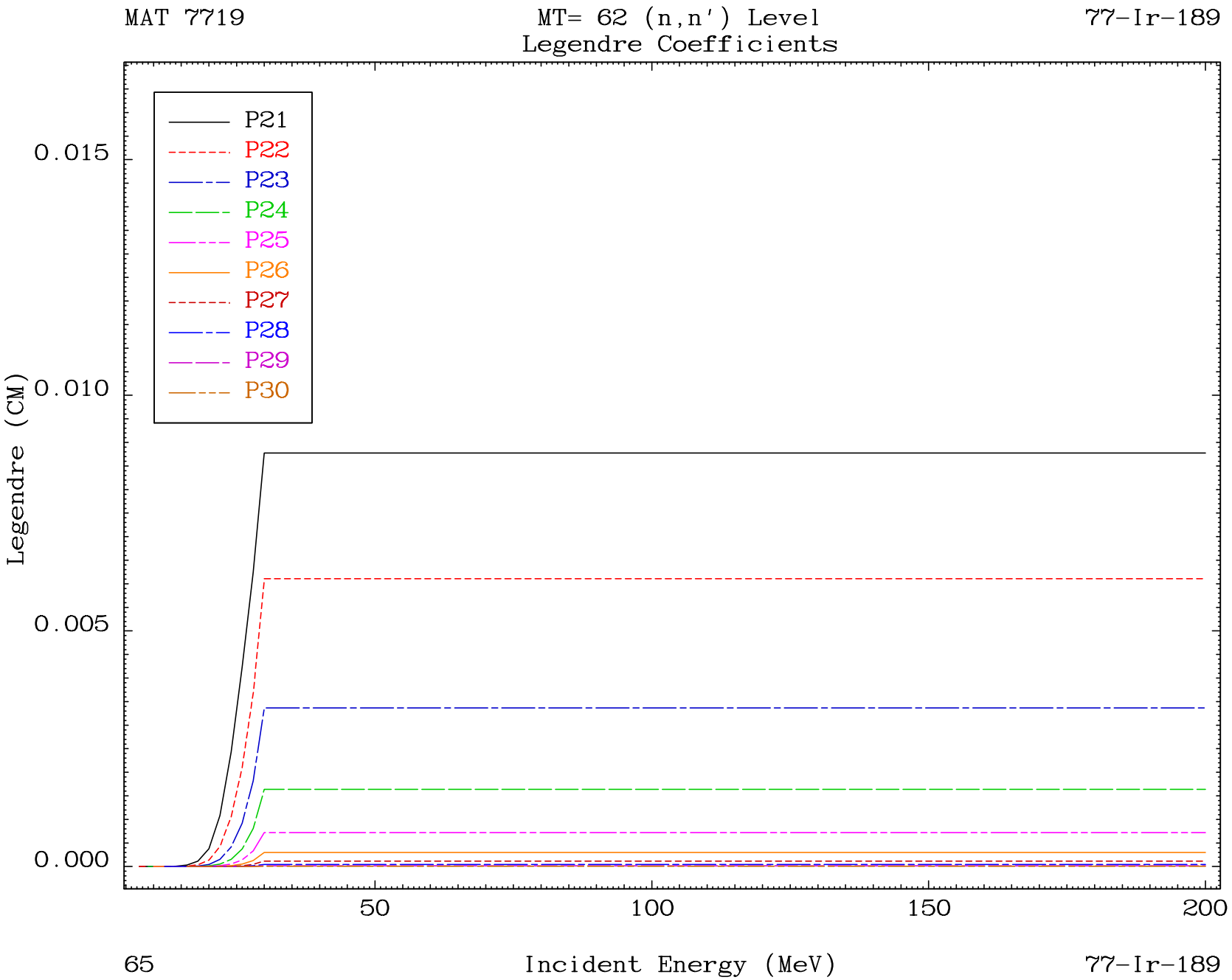

MAT 7719
MT= 61 (n,n') Level
Legendre Coefficients
77-Ir-189
0.06
0.04
0.02
0.00
-0.02
Legendre (CM)
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0
50
100
150
200
60
Incident Energy (MeV)
77-Ir-189

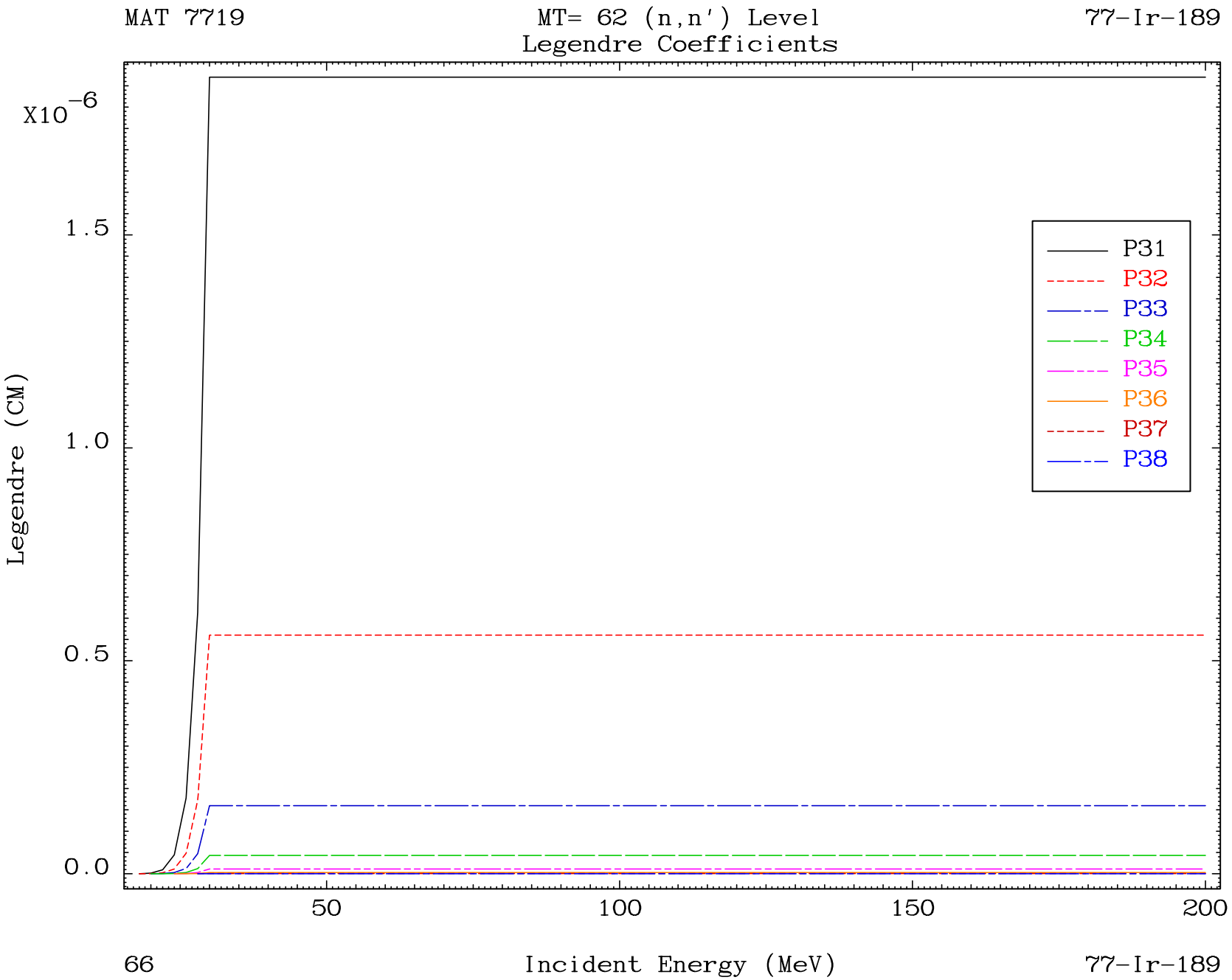

MAT 7719
MT= 61 (n,n') Level
Legendre Coefficients
77-Ir-189
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
0.015
0.010
0.005
0.000
Legendre (CM)
50
100
150
200
61
Incident Energy (MeV)
77-Ir-189

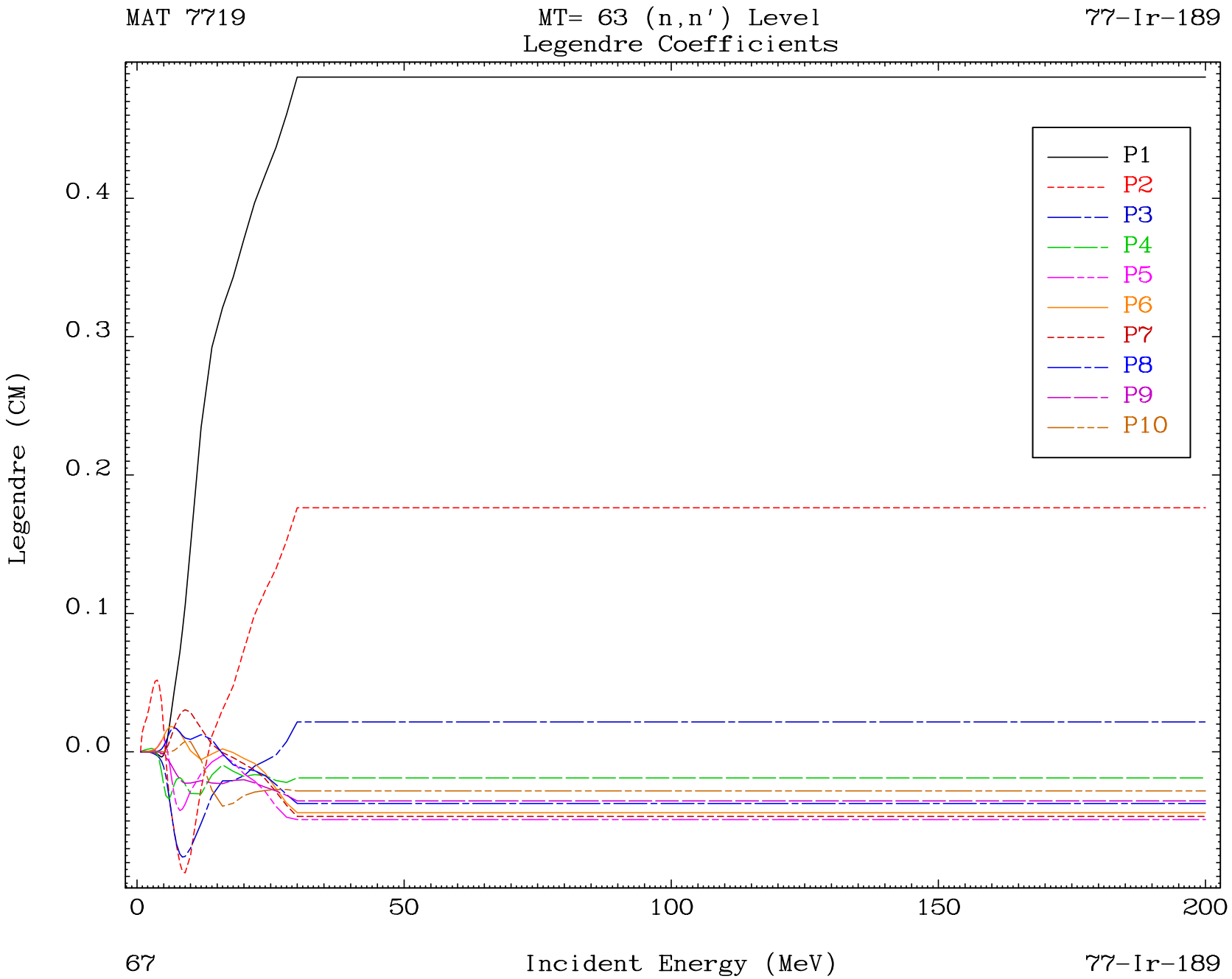

MAT 7719
MT= 61 (n,n') Level
Legendre Coefficients
77-Ir-189
X10−6
1.5
1.0
0.5
0.0
Legendre (CM)
P31
P32
P33
P34
P35
P36
P37
P38
50
100
150
200
62
Incident Energy (MeV)
77-Ir-189

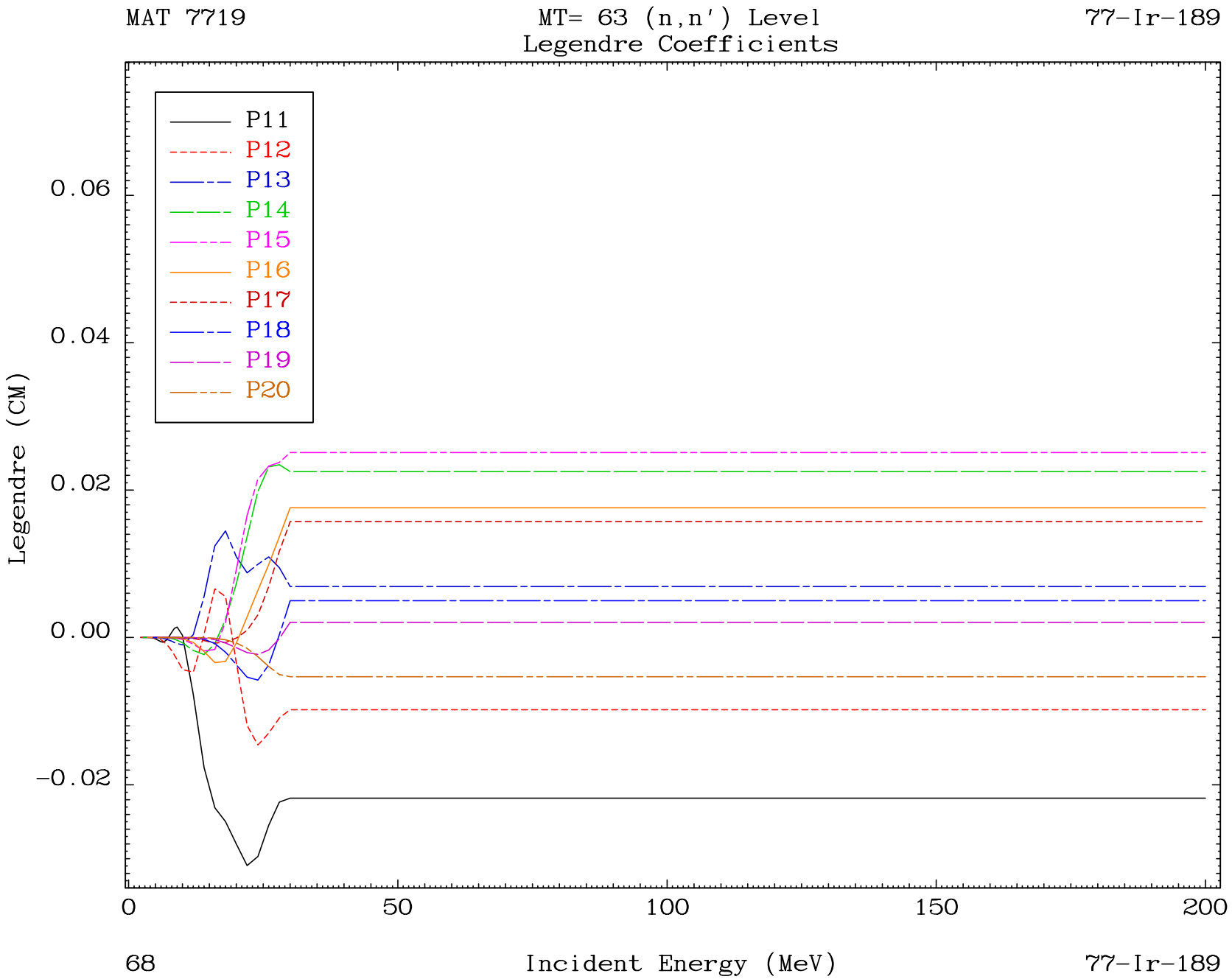

MAT 7719
MT= 62 (n,n') Level
Legendre Coefficients
77-Ir-189
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
0
50
100
150
200
63
Incident Energy (MeV)
77-Ir-189

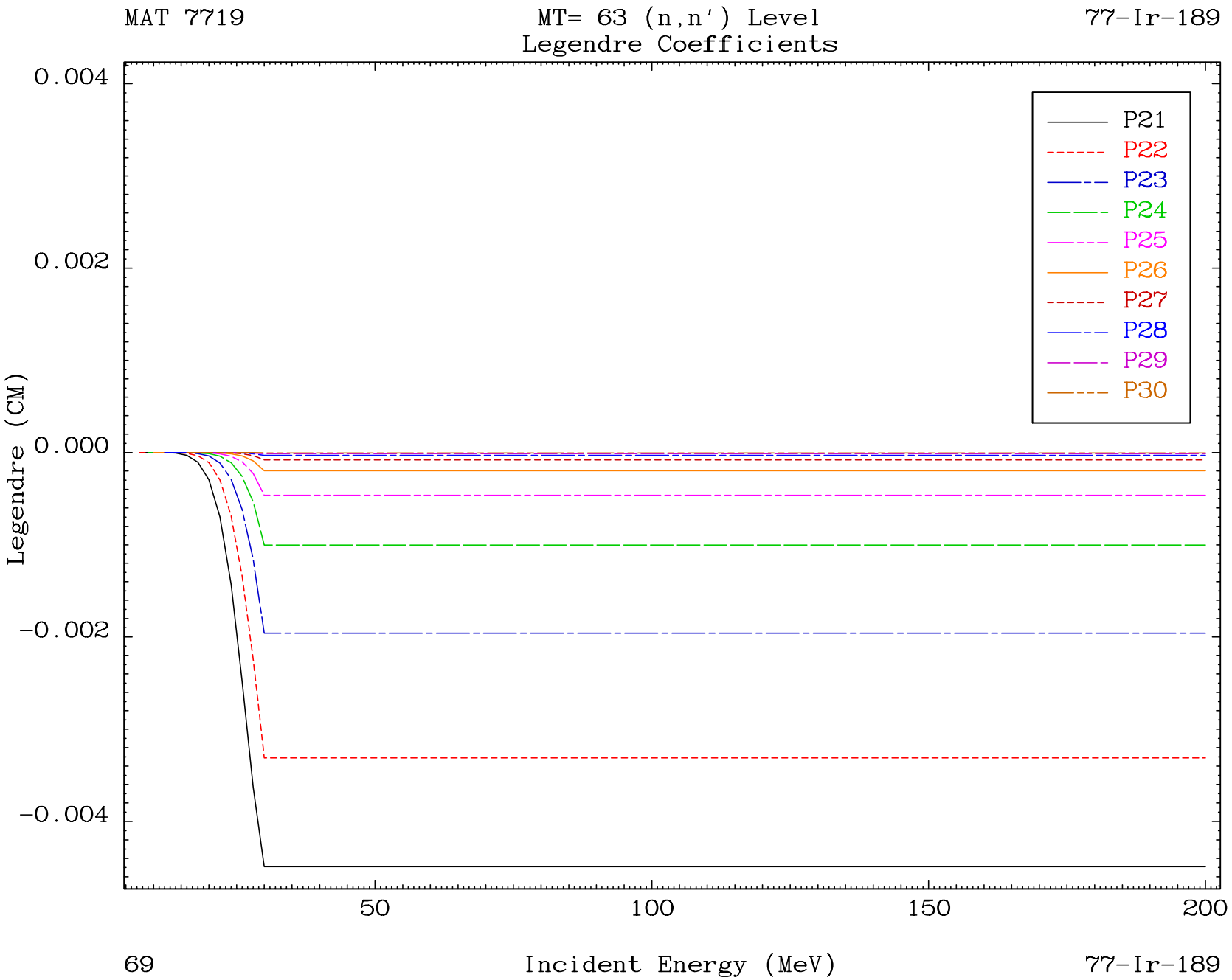

MAT 7719
MT= 62 (n,n') Level
Legendre Coefficients
77-Ir-189
0.06
0.04
0.02
0.00
-0.02
Legendre (CM)
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0
50
100
150
200
64
Incident Energy (MeV)
77-Ir-189

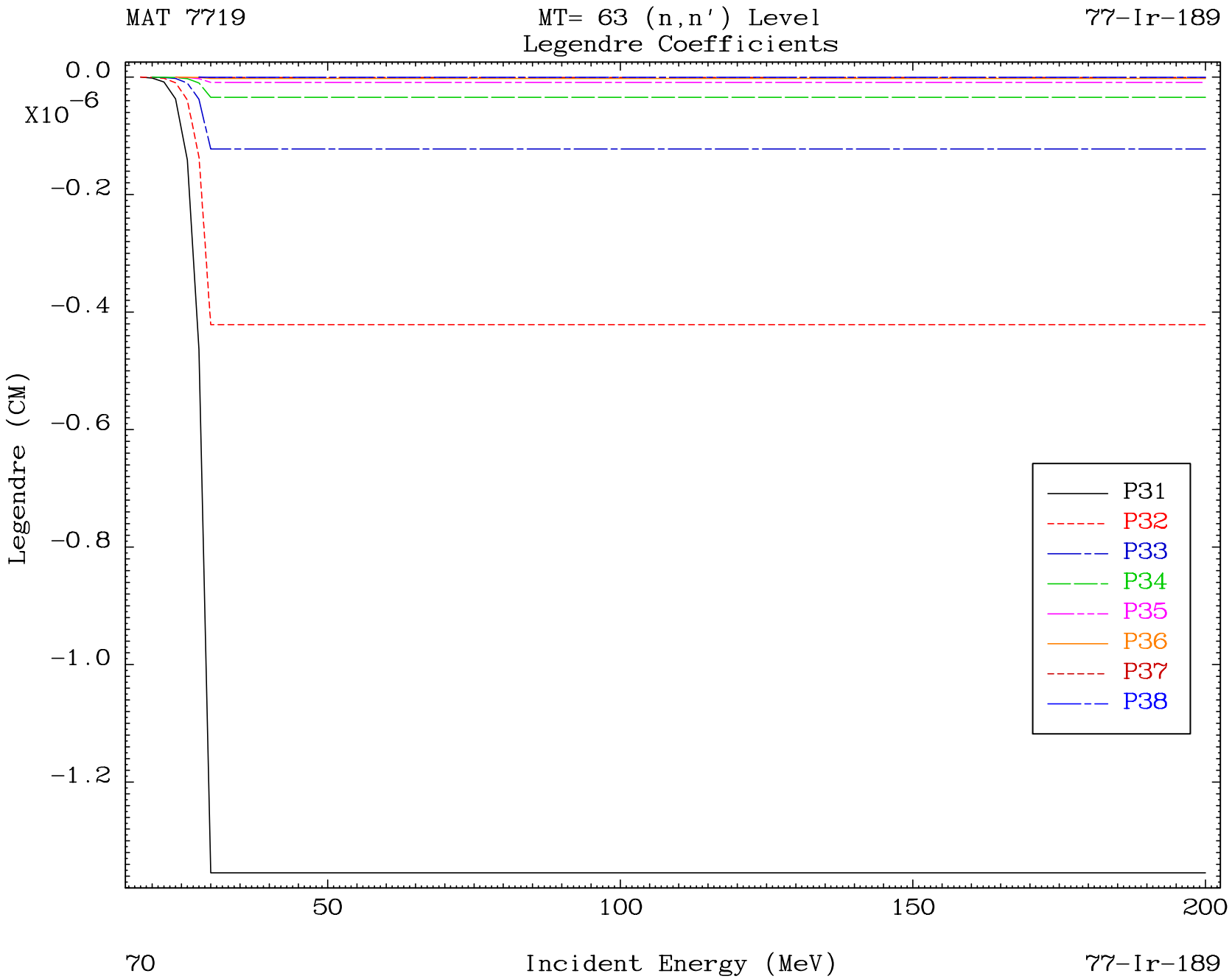

MAT 7719
MT= 62 (n,n') Level
Legendre Coefficients
77-Ir-189
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
0.015
0.010
0.005
0.000
Legendre (CM)
50
100
150
200
65
Incident Energy (MeV)
77-Ir-189

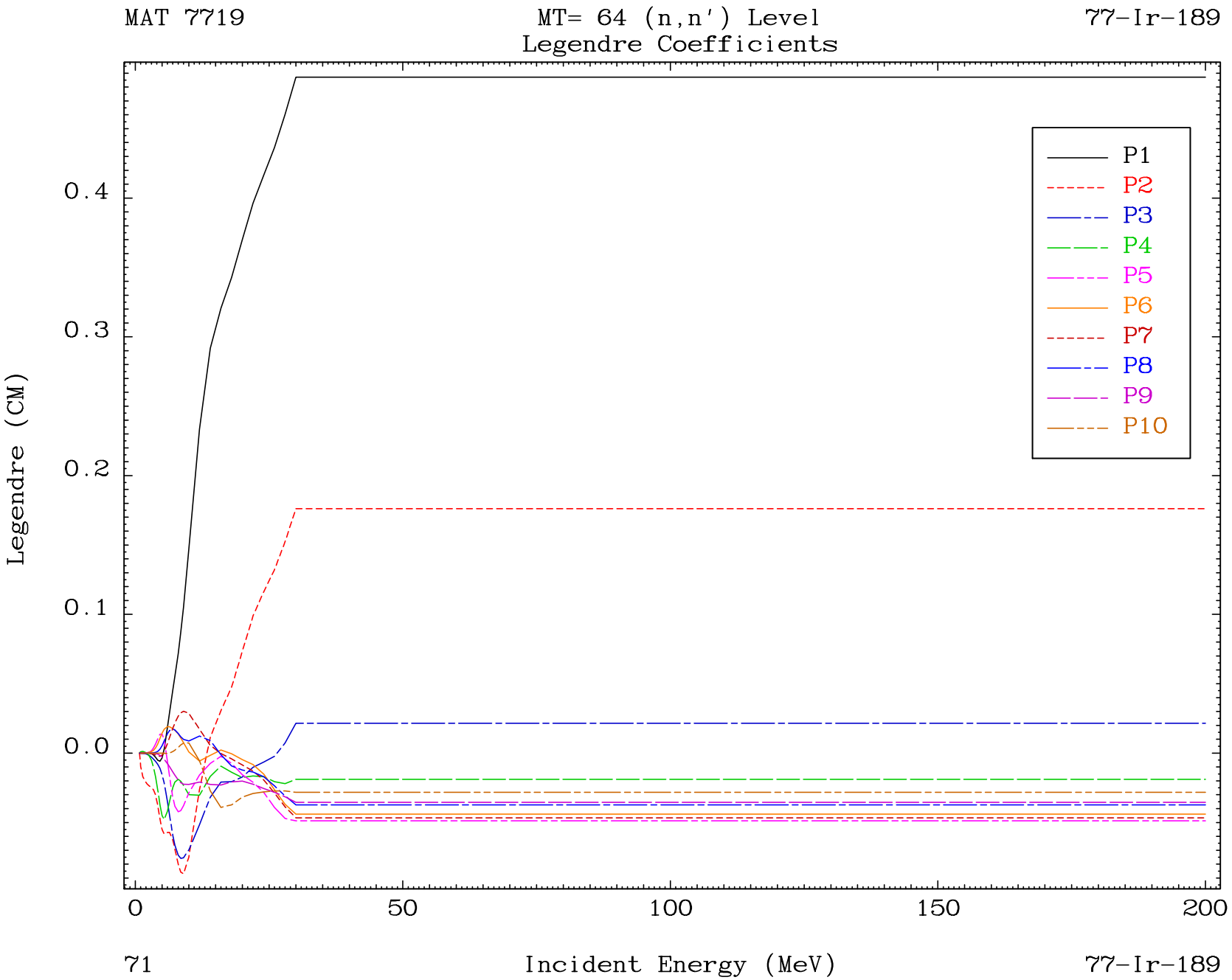

MAT 7719
MT= 62 (n,n') Level
Legendre Coefficients
77-Ir-189
X10−6
1.5
1.0
0.5
0.0
Legendre (CM)
P31
P32
P33
P34
P35
P36
P37
P38
50
100
150
200
66
Incident Energy (MeV)
77-Ir-189

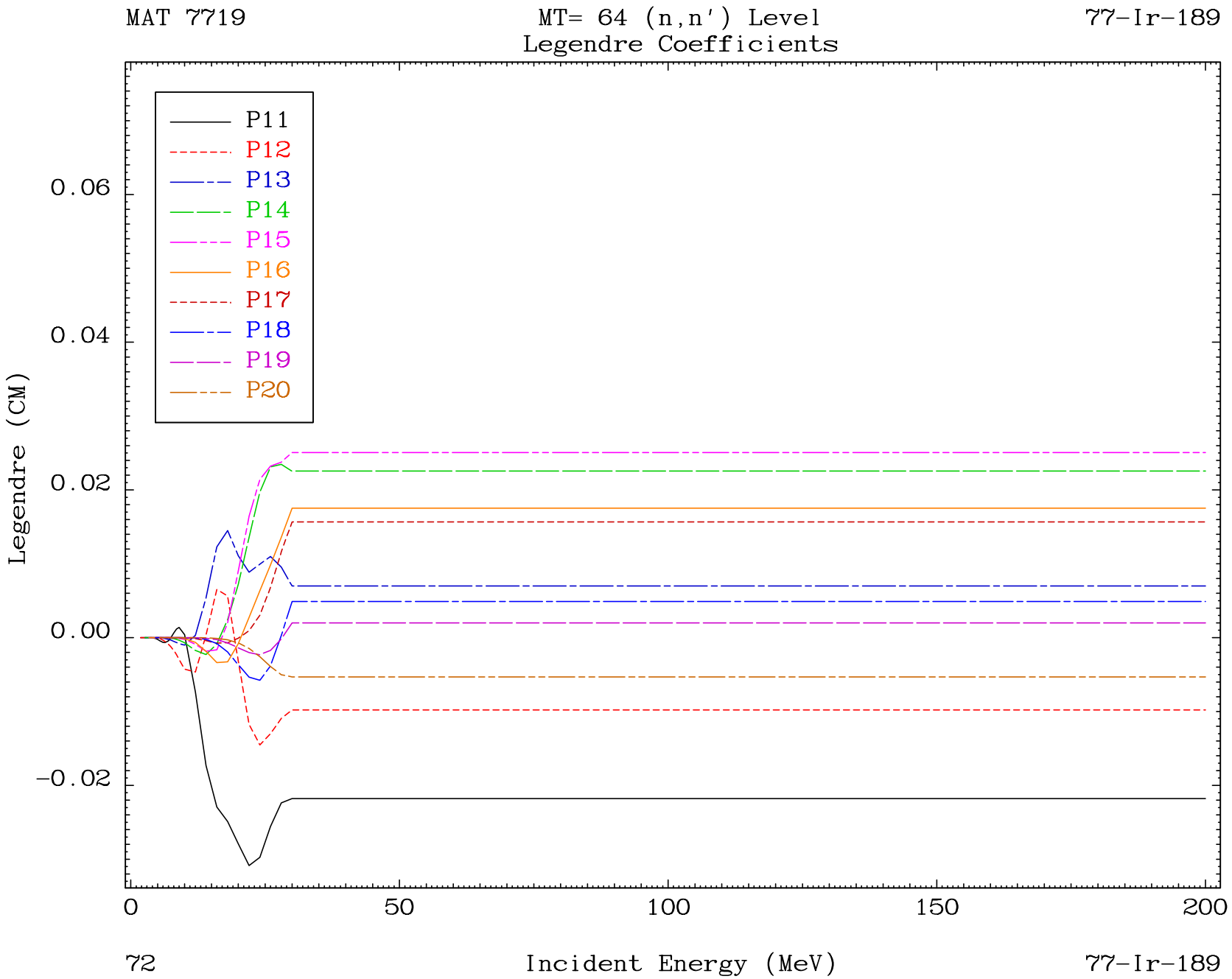

MAT 7719
MT= 63 (n,n') Level
Legendre Coefficients
77-Ir-189
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
67
Incident Energy (MeV)
77-Ir-189
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10

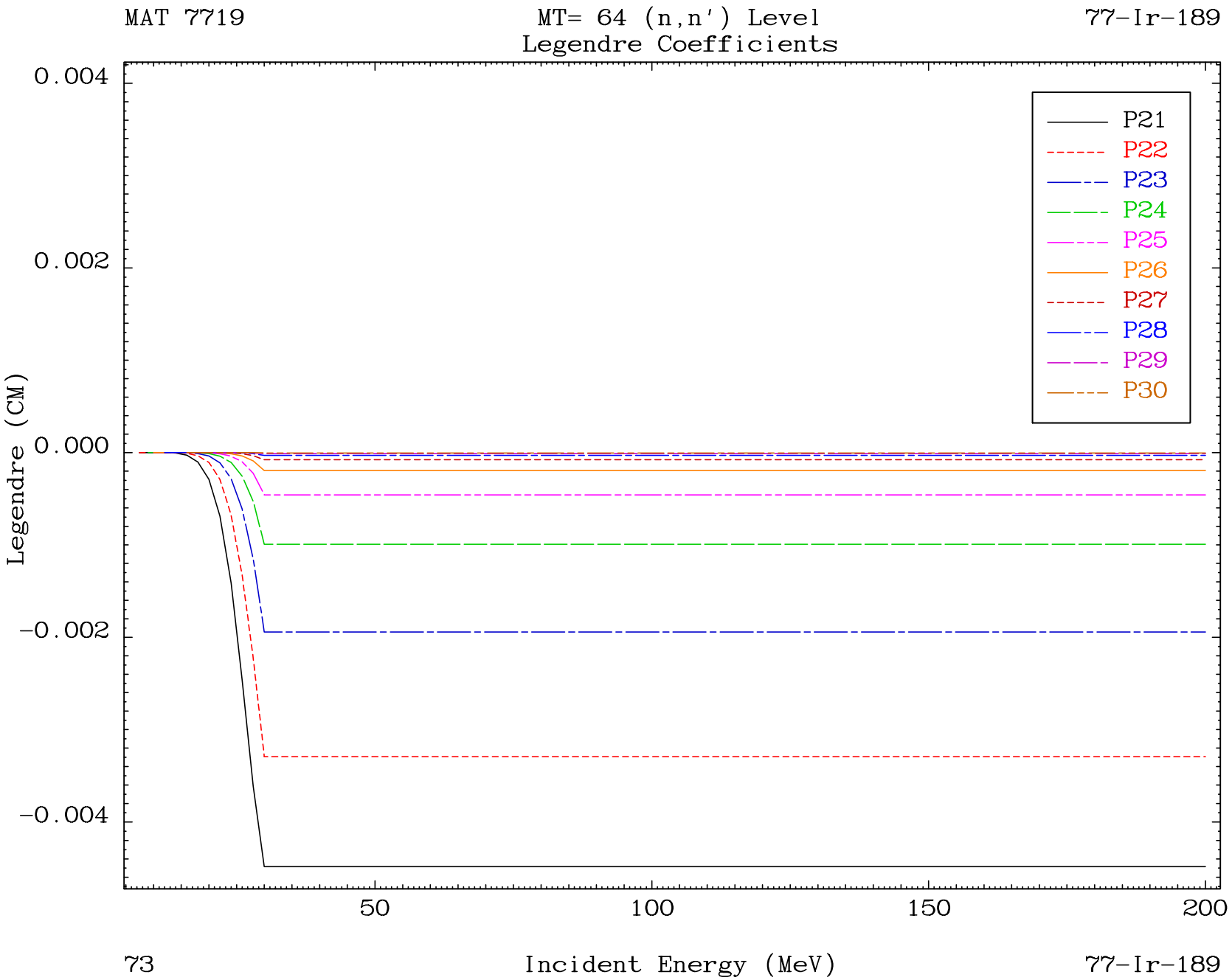

MAT 7719
MT= 63 (n,n') Level
Legendre Coefficients
77-Ir-189
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.06
0.04
0.02
0.00
-0.02
Legendre (CM)
0
50
100
150
200
68
Incident Energy (MeV)
77-Ir-189

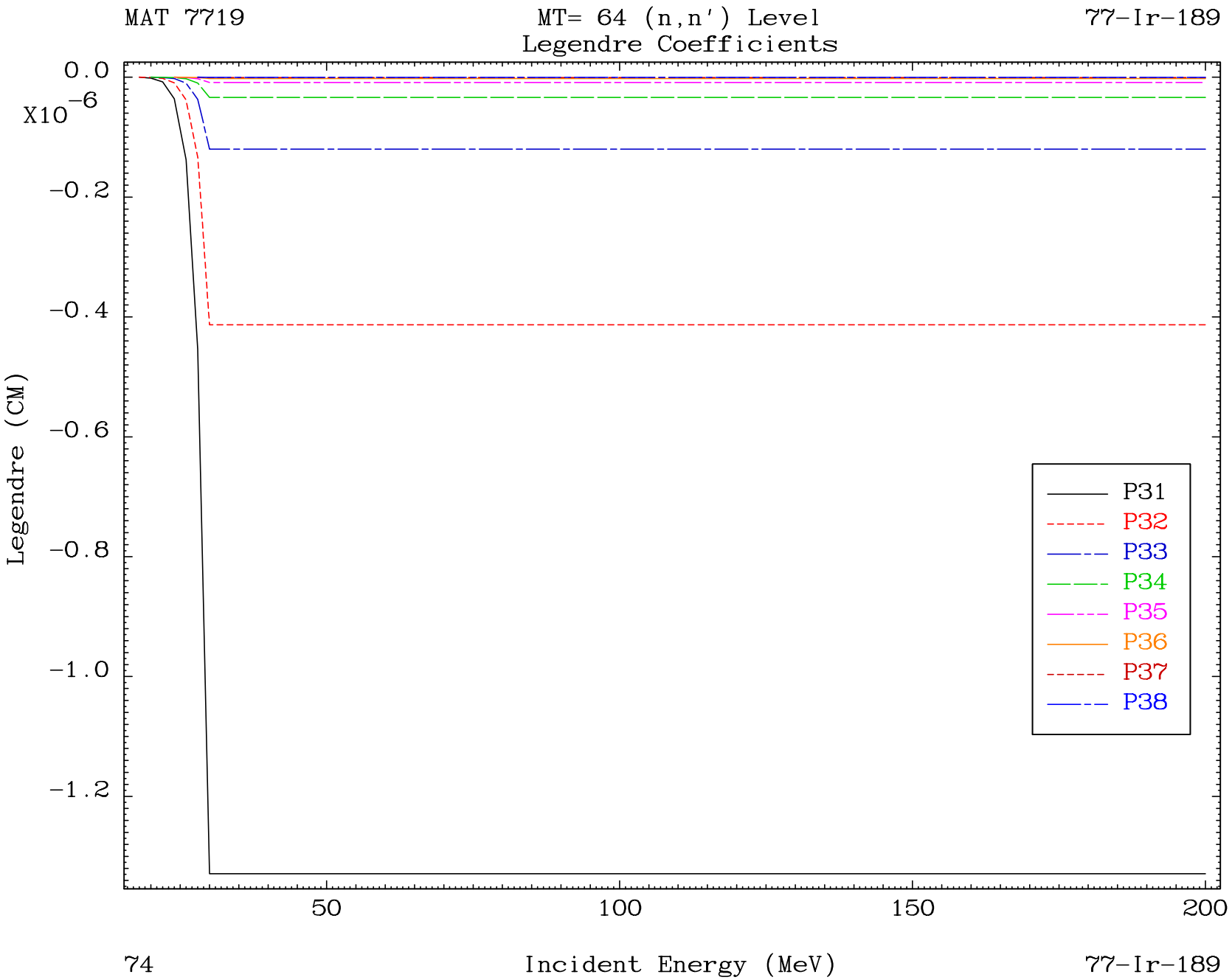

MAT 7719
MT= 63 (n,n') Level
Legendre Coefficients
77-Ir-189
0.004
0.002
0.000
-0.002
-0.004
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
50
100
150
200
69
Incident Energy (MeV)
77-Ir-189

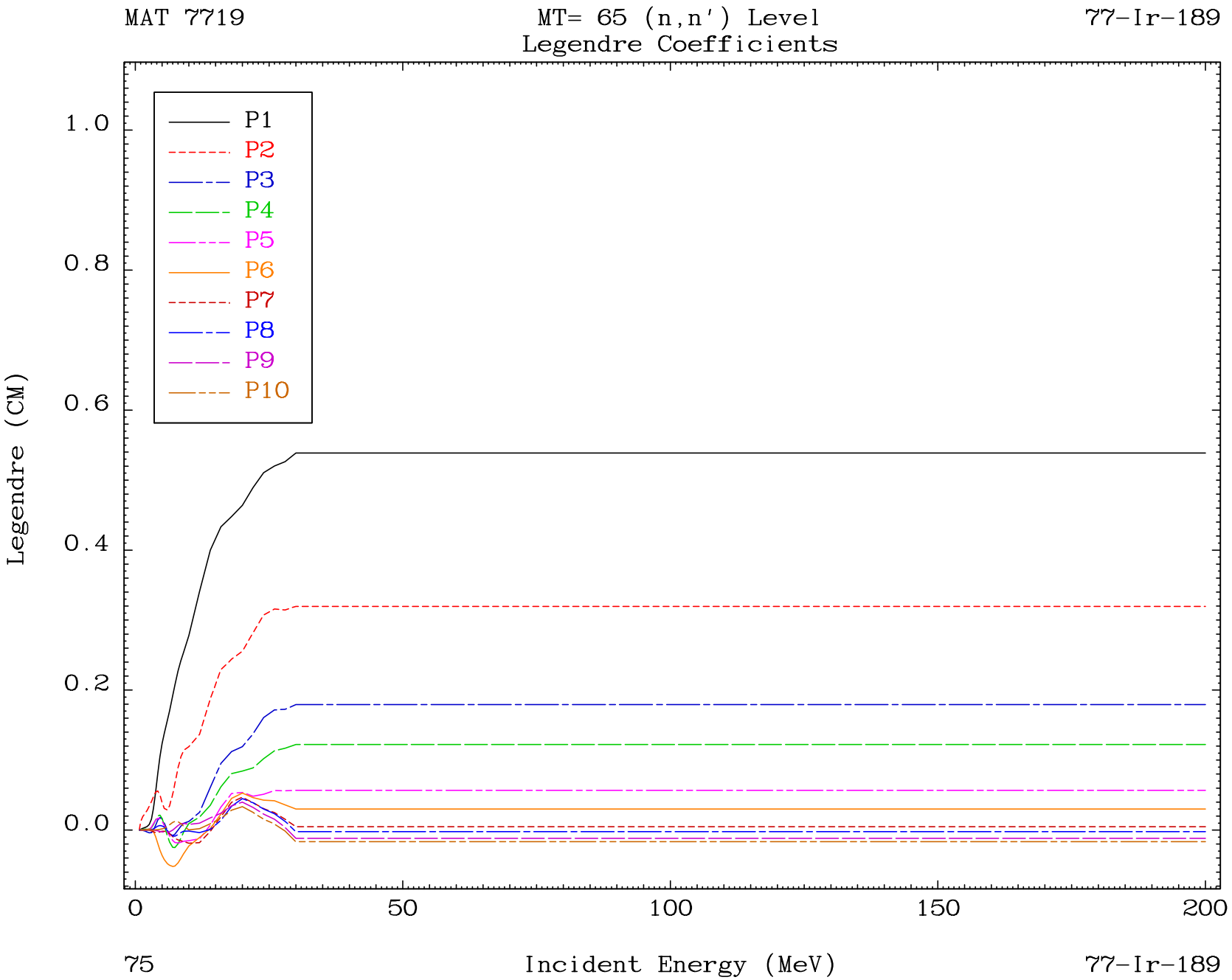

MAT 7719
MT= 63 (n,n') Level
Legendre Coefficients
77-Ir-189
0.0
X10 −6
−0.2
−0.4
−0.6
−0.8
−1.0
−1.2
Legendre (CM)
50
100
150
200
70
Incident Energy (MeV)
77-Ir-189
P31
P32
P33
P34
P35
P36
P37
P38

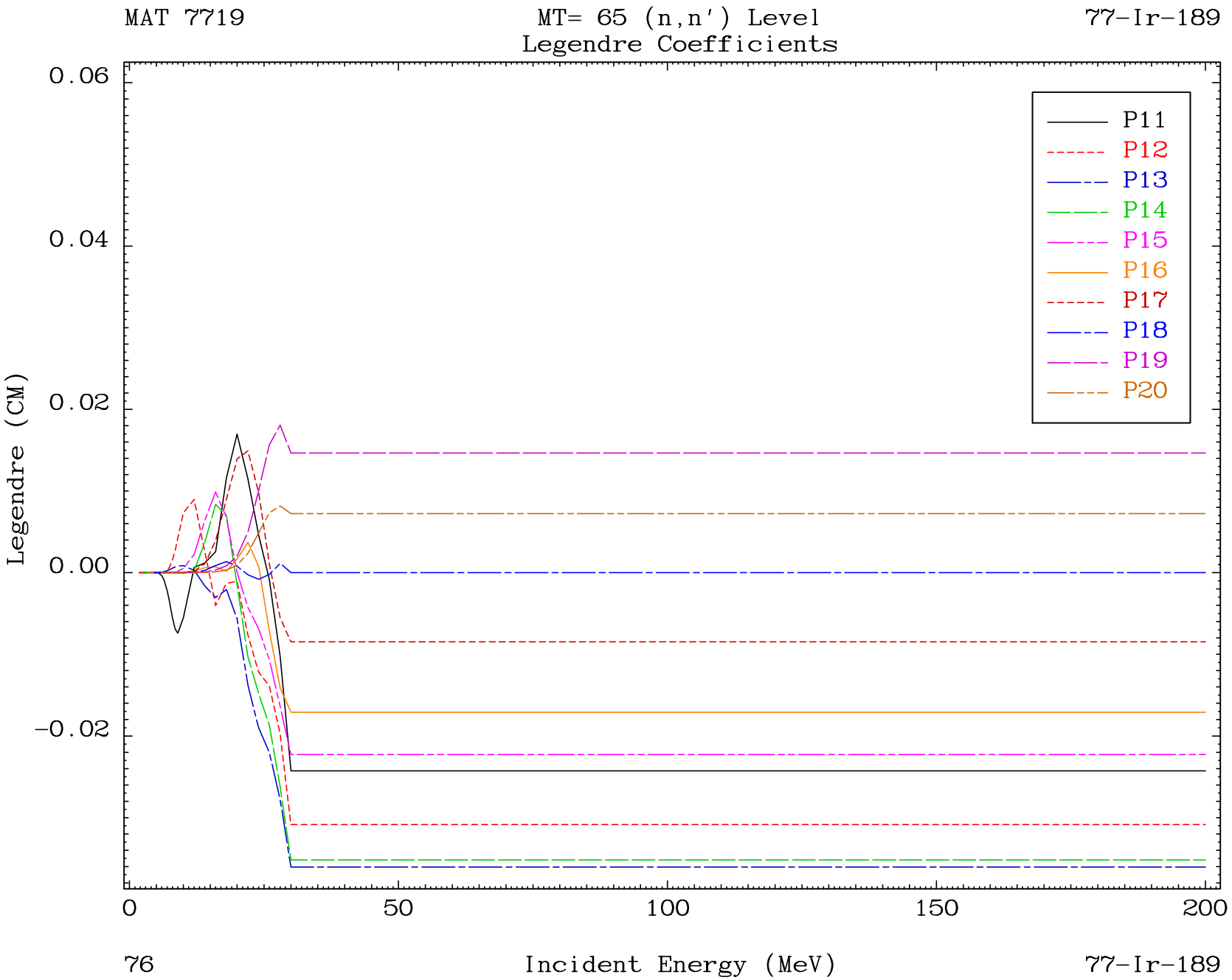

MAT 7719
MT= 64 (n,n') Level
Legendre Coefficients
77-Ir-189
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
71
Incident Energy (MeV)
77-Ir-189
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10

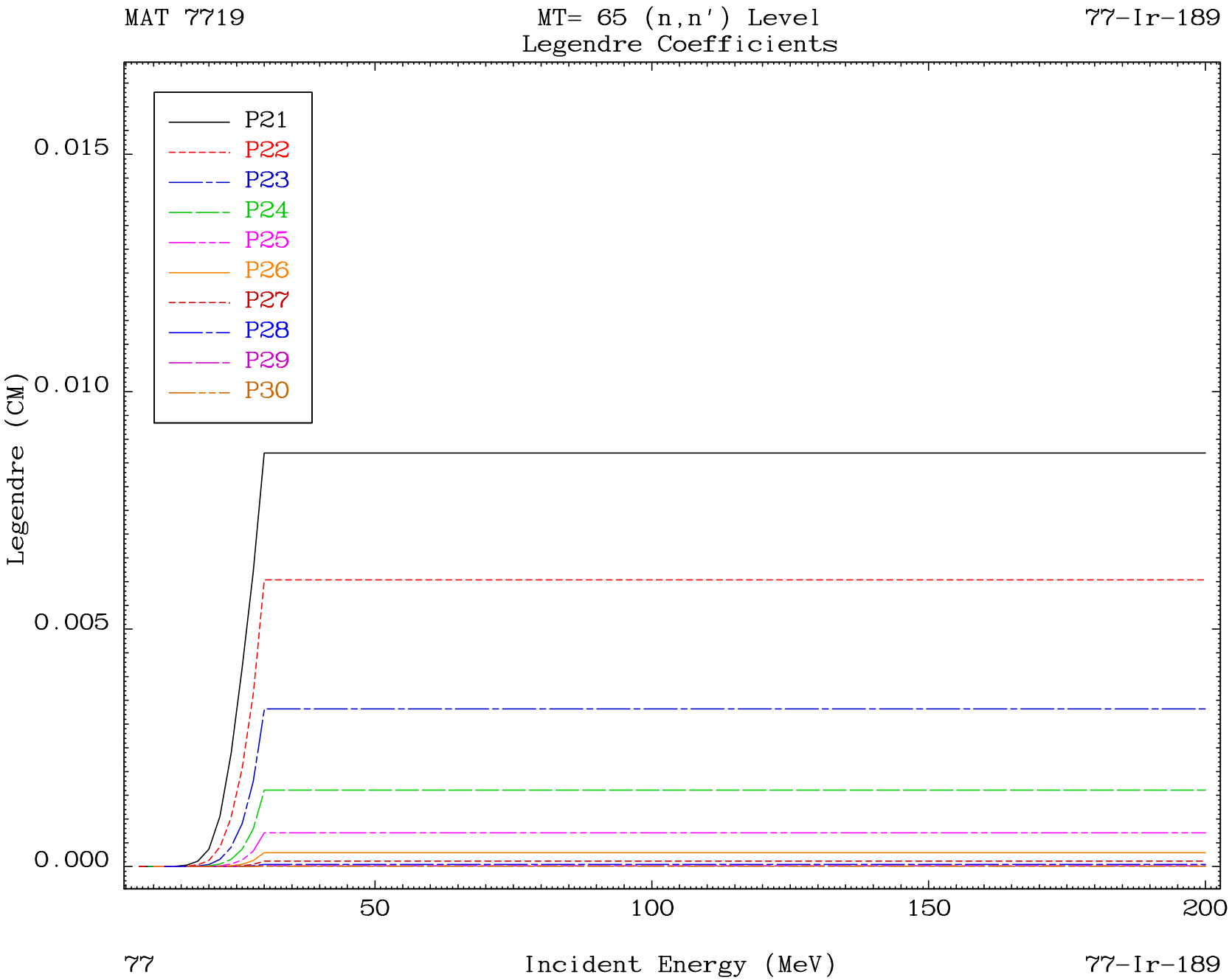

MAT 7719
MT= 64 (n,n') Level
Legendre Coefficients
77-Ir-189
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.06
0.04
0.02
0.00
-0.02
Legendre (CM)
0
50
100
150
200
72
Incident Energy (MeV)
77-Ir-189

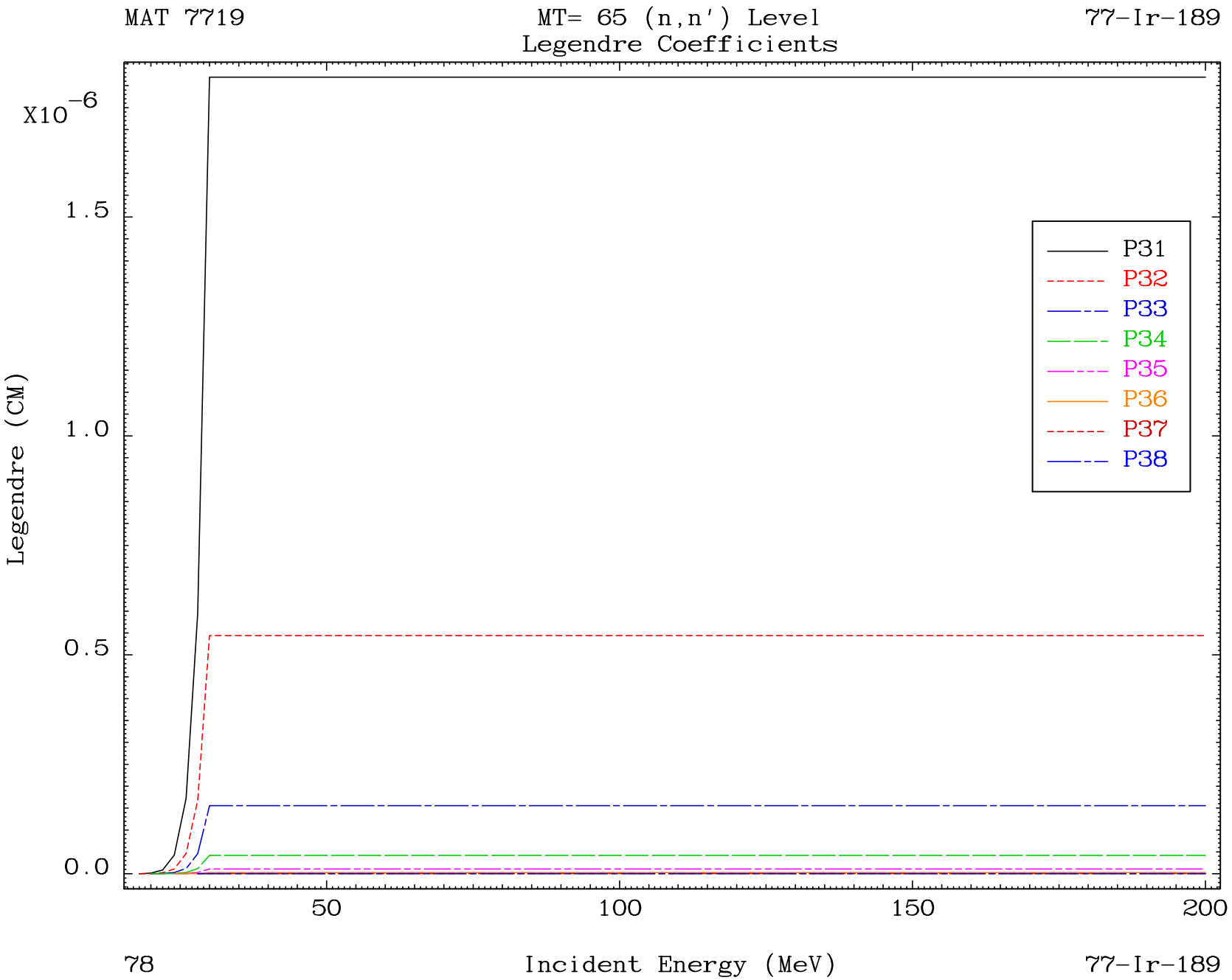

MAT 7719
MT= 64 (n,n') Level
Legendre Coefficients
77-Ir-189
0.004
0.002
0.000
-0.002
-0.004
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
50
100
150
200
73
Incident Energy (MeV)
77-Ir-189

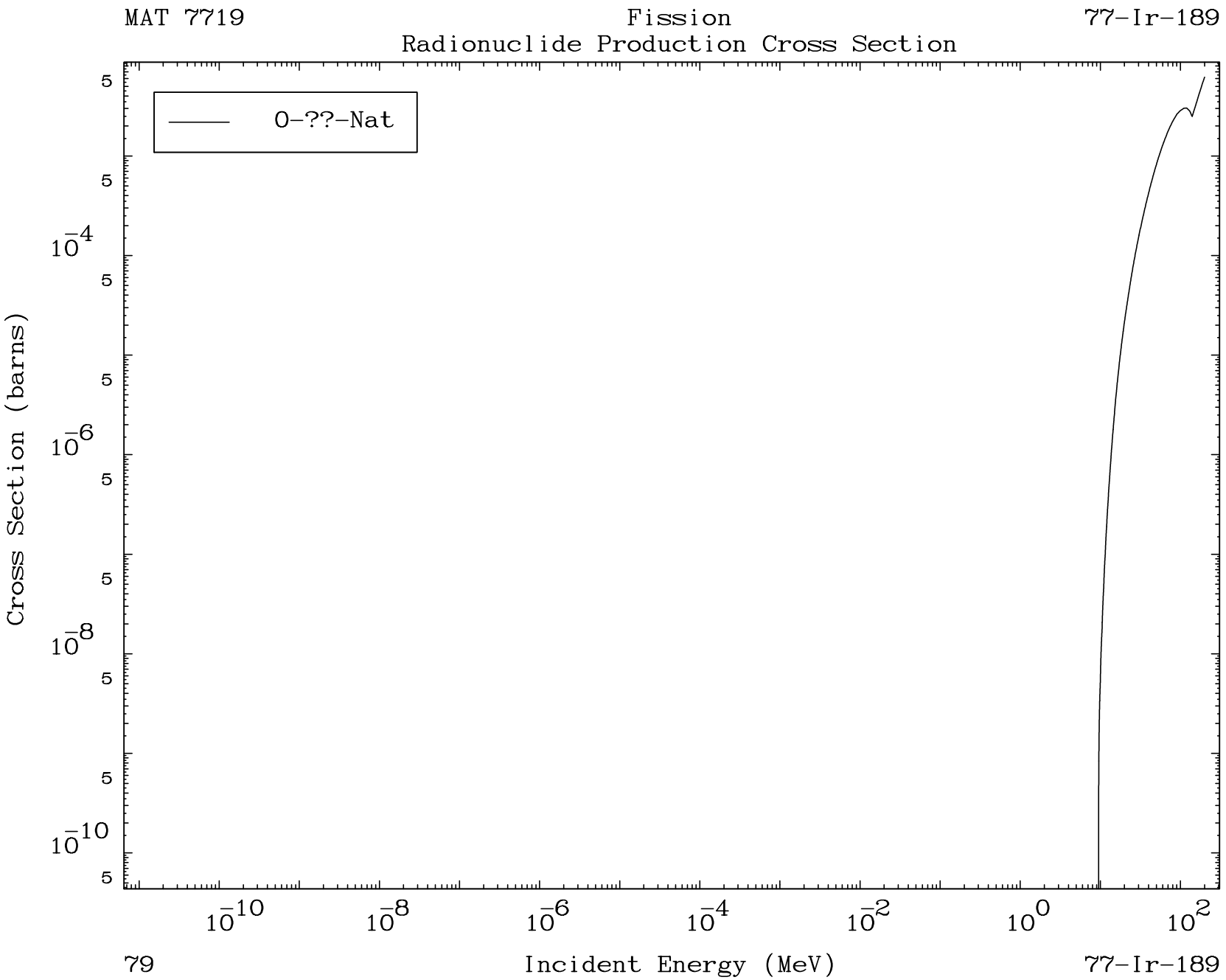

MAT 7719
MT= 64 (n,n') Level
Legendre Coefficients
77-Ir-189
0.0
X10^-6
-0.2
-0.4
-0.6
-0.8
-1.0
-1.2
Legendre (CM)
50
100
150
200
P31
P32
P33
P34
P35
P36
P37
P38
74
Incident Energy (MeV)
77-Ir-189

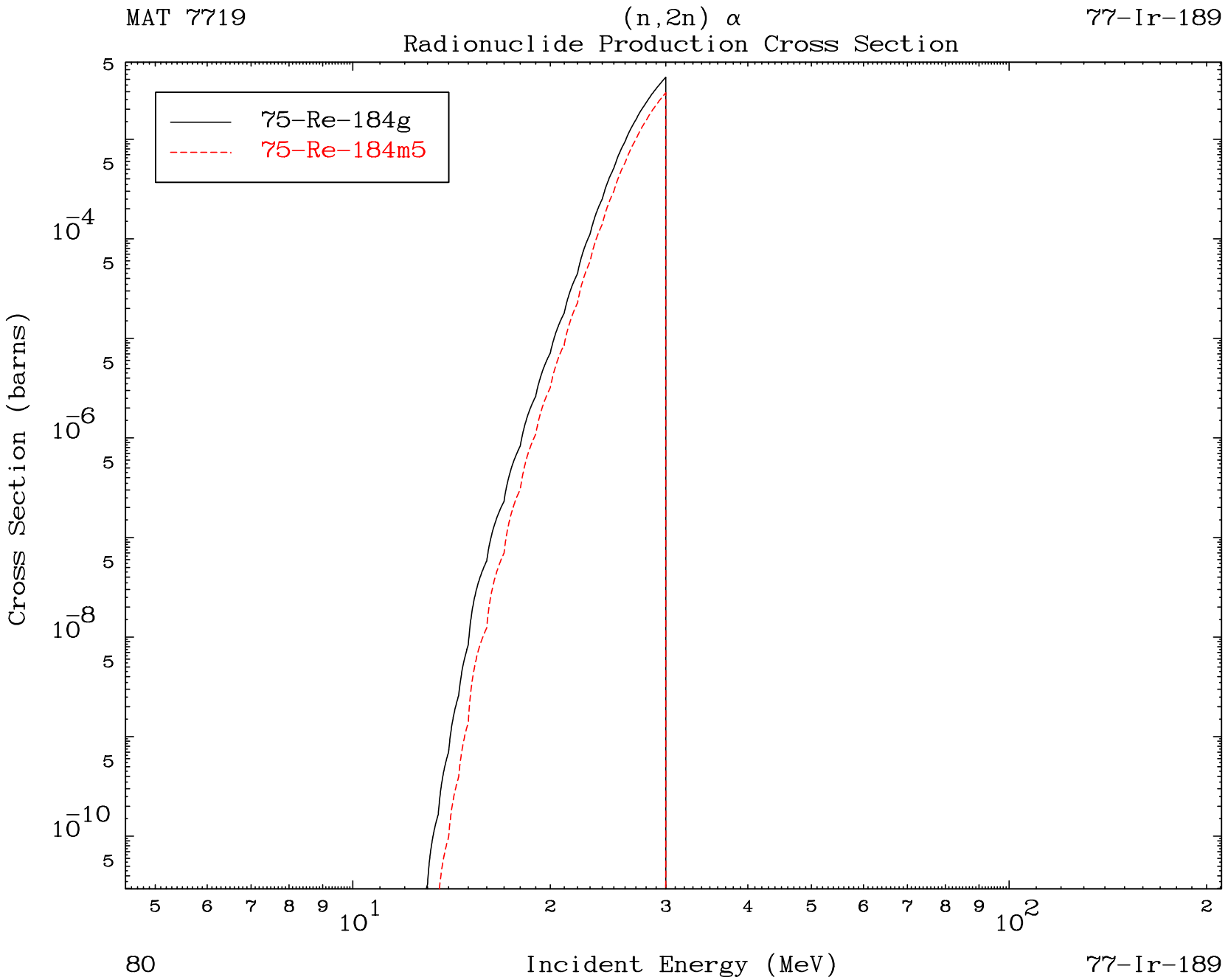

MAT 7719
MT= 65 (n,n') Level
Legendre Coefficients
77-Ir-189
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
0
50
100
150
200
75
Incident Energy (MeV)
77-Ir-189

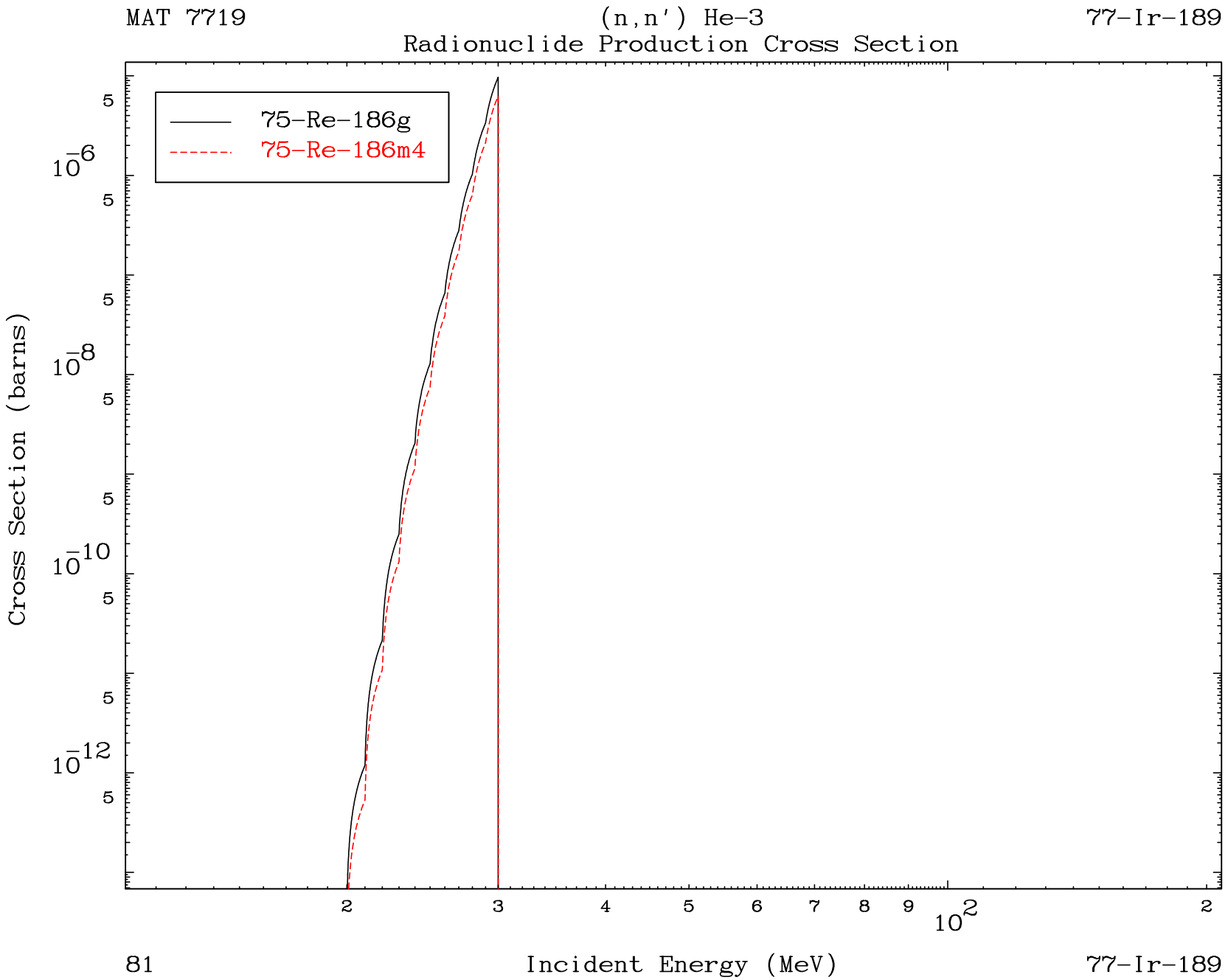

MAT 7719
MT= 65 (n,n') Level
Legendre Coefficients
77-Ir-189
0.06
0.04
0.02
0.00
-0.02
Legendre (CM)
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0
50
100
150
200
76
Incident Energy (MeV)
77-Ir-189

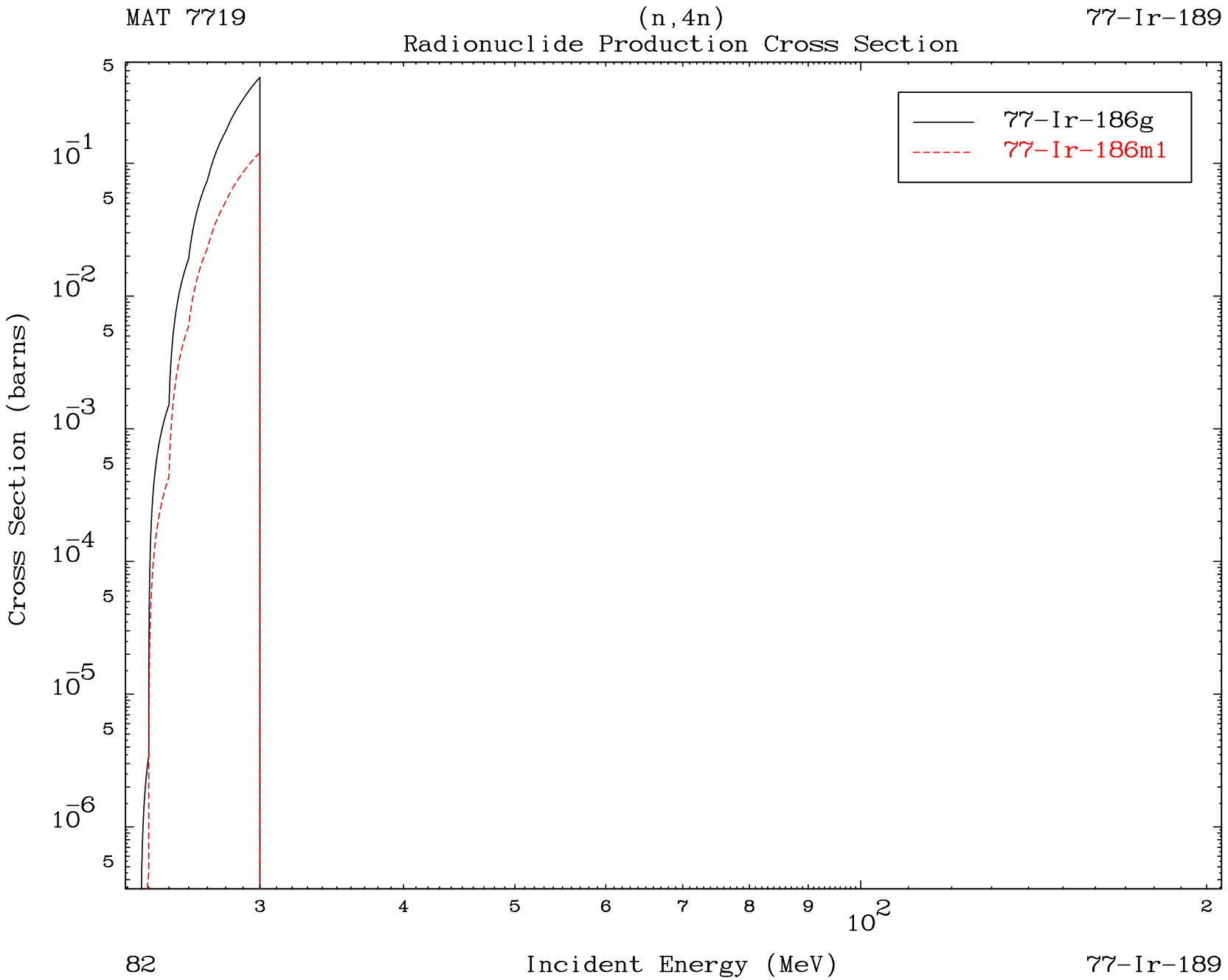

MAT 7719
MT= 65 (n,n') Level
Legendre Coefficients
77-Ir-189
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
0.015
0.010
0.005
0.000
Legendre (CM)
50
100
150
200
77
Incident Energy (MeV)
77-Ir-189

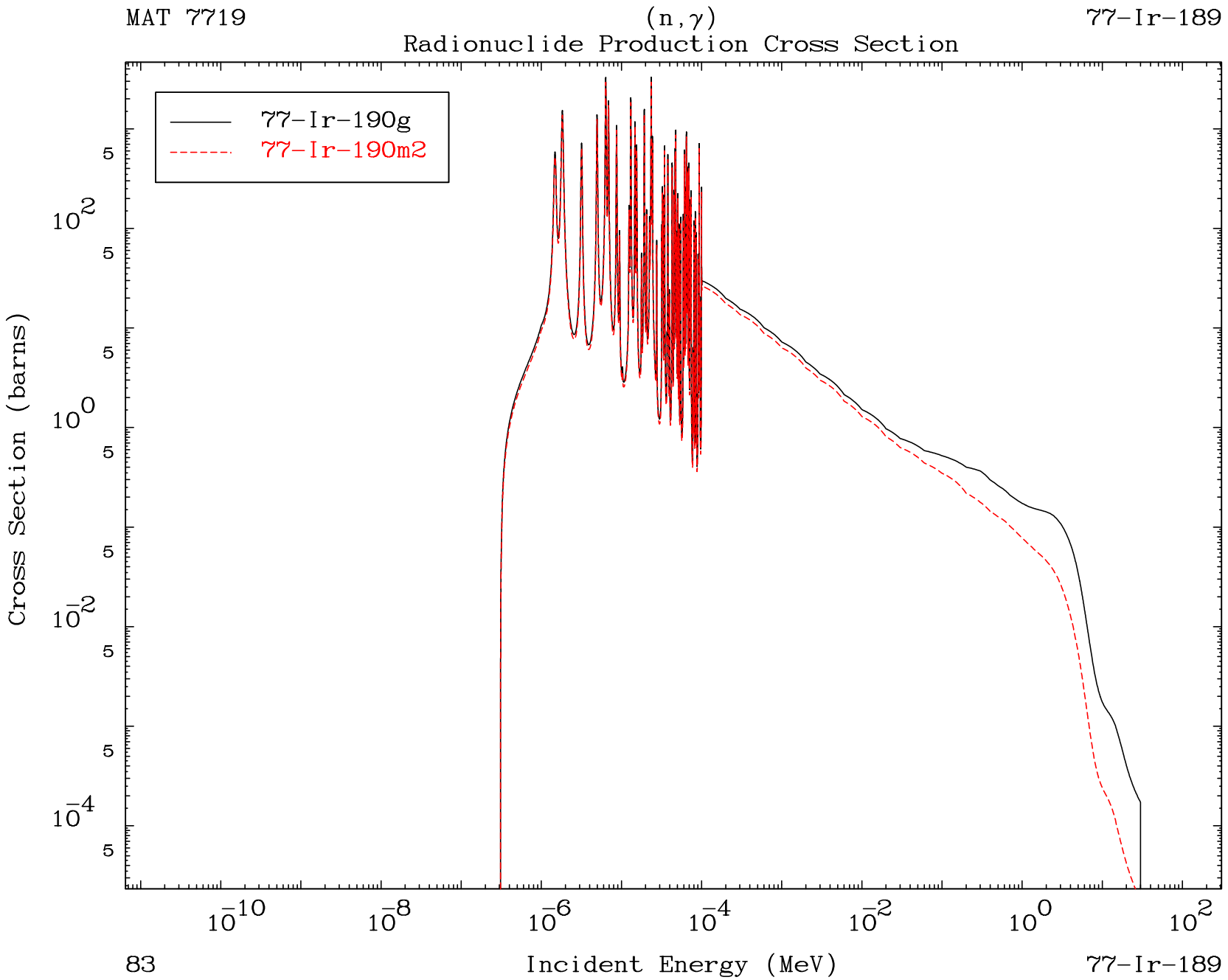

MAT 7719
MT= 65 (n,n') Level
Legendre Coefficients
77-Ir-189
X10−6
1.5
1.0
0.5
0.0
Legendre (CM)
P31
P32
P33
P34
P35
P36
P37
P38
50
100
150
200
78
Incident Energy (MeV)
77-Ir-189

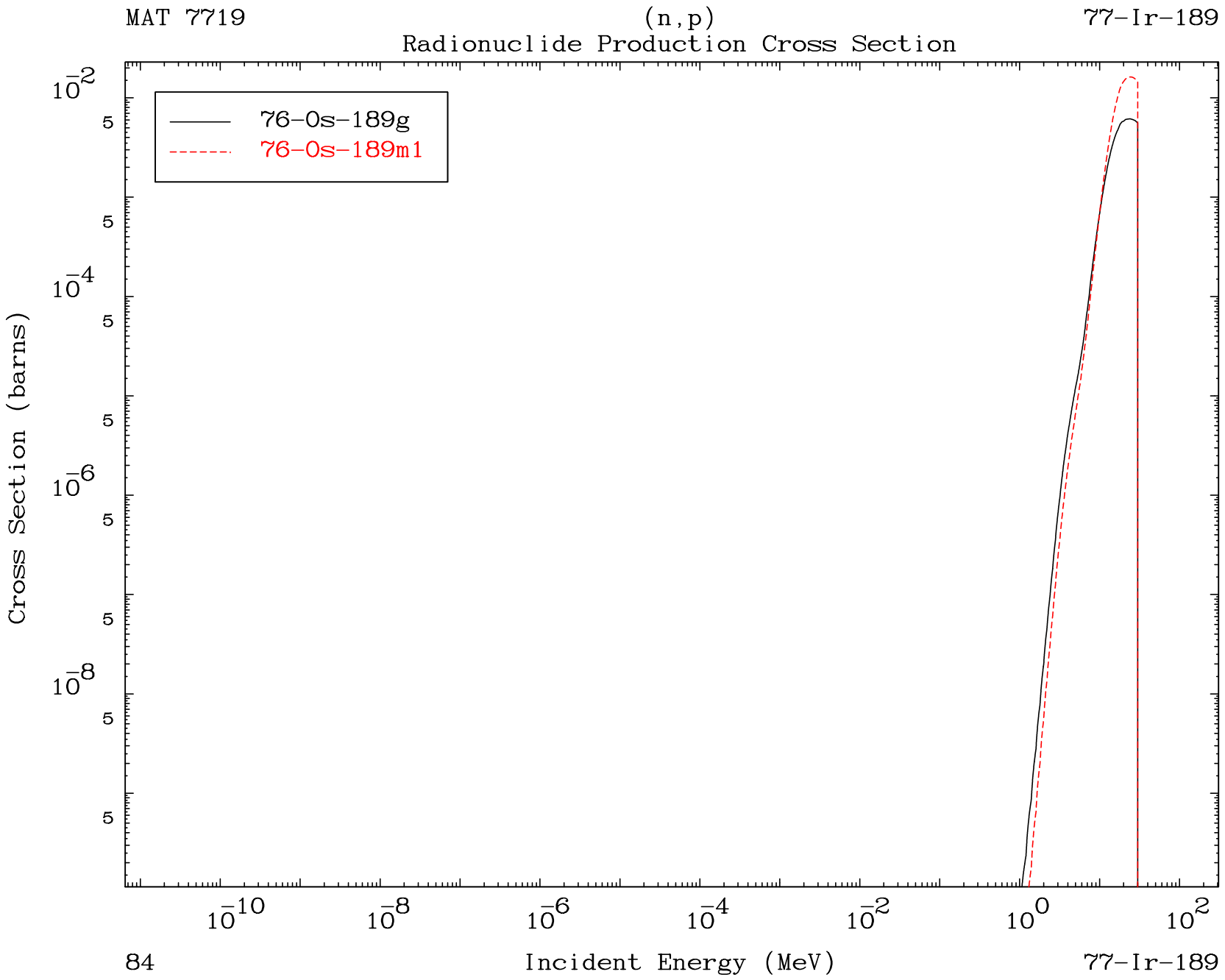

MAT 7719
Fission
77-Ir-189
Radionuclide Production Cross Section
0-??-Nat
Cross Section (barns)
Incident Energy (MeV)
79
77-Ir-189

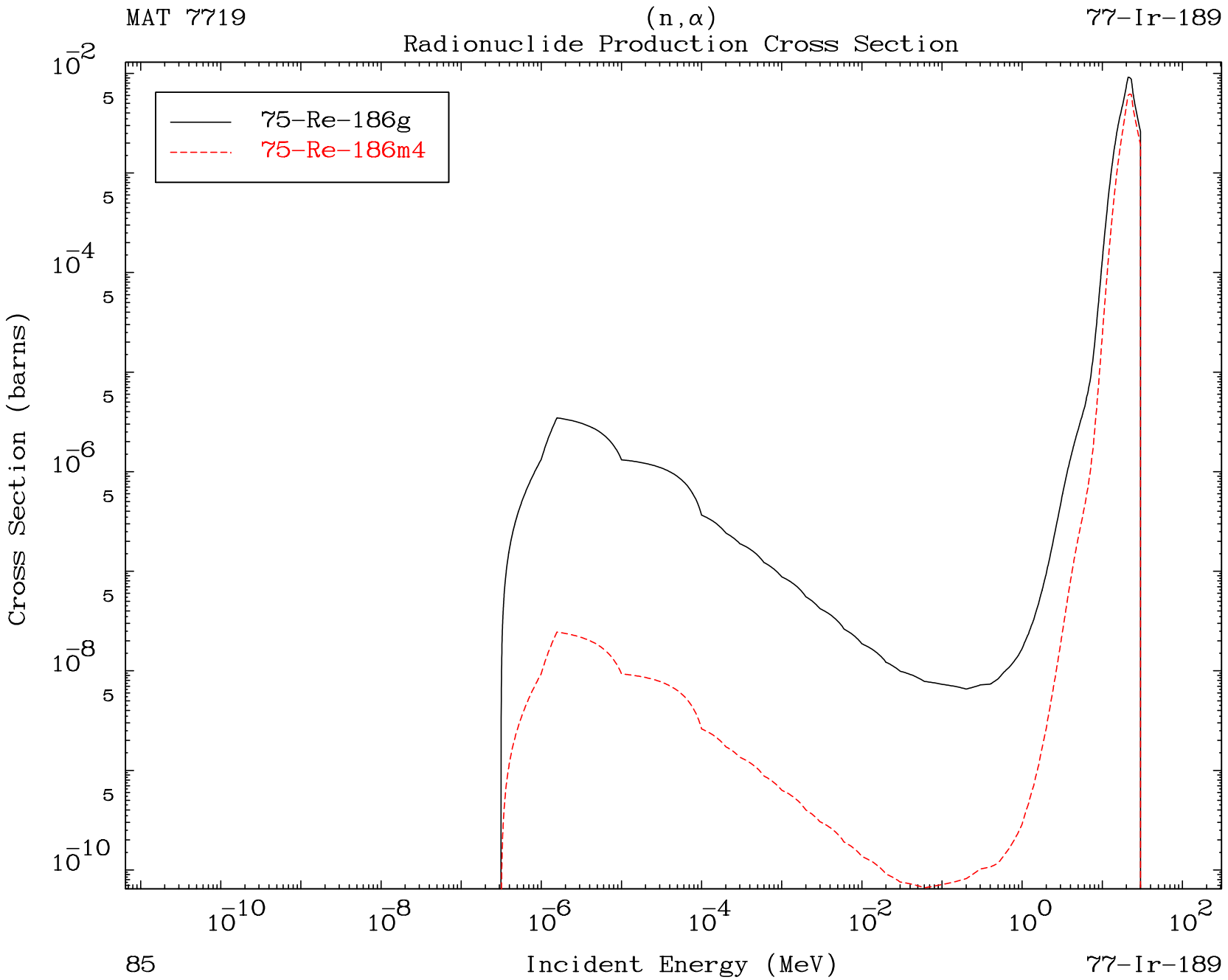

MAT 7719
(n,2n) α
77-Ir-189
Radionuclide Production Cross Section
75-Re-184g
75-Re-184m5
Cross Section (barns)
Incident Energy (MeV)
80
77-Ir-189

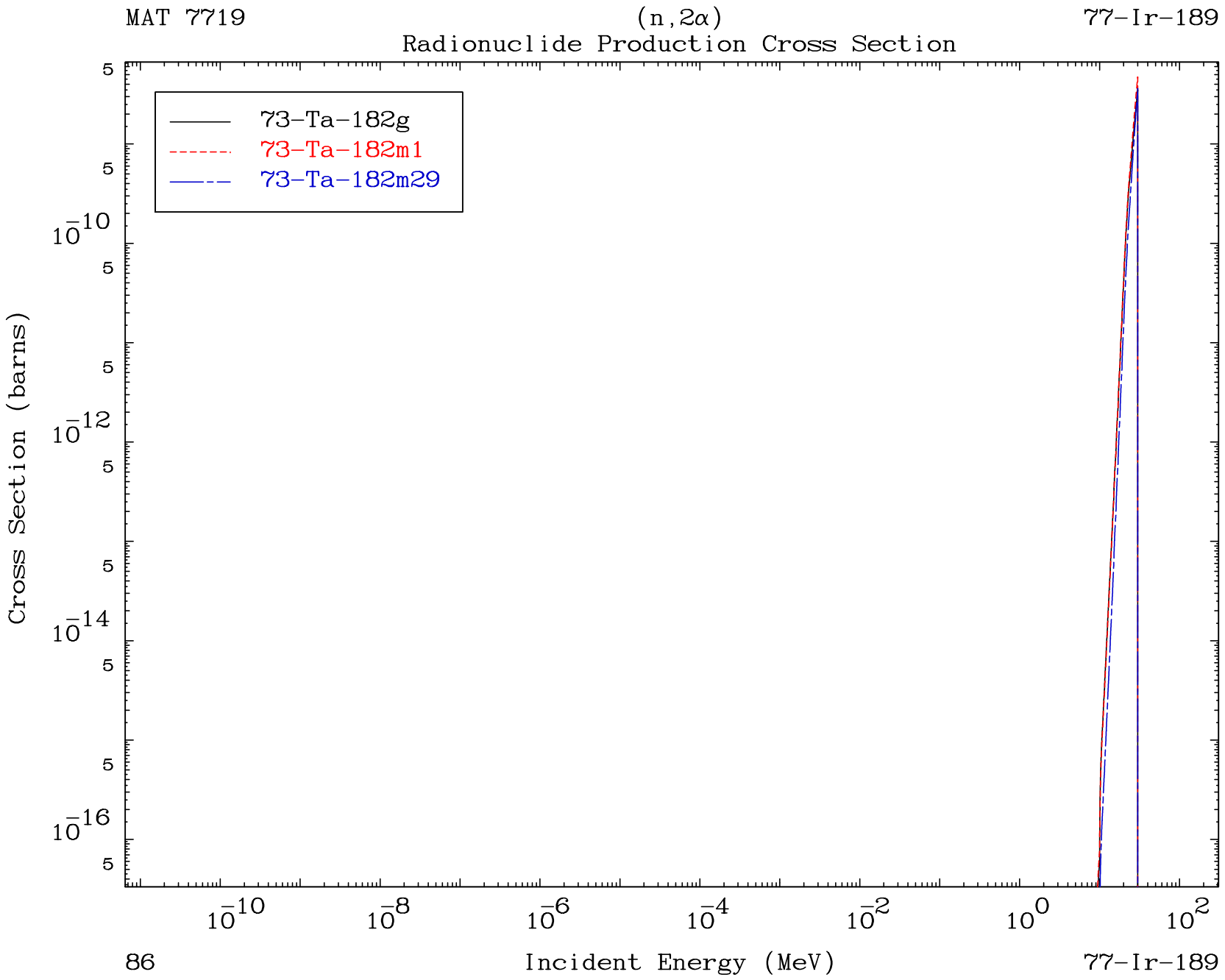

MAT 7719
(n,n') He-3
77-Ir-189
Radionuclide Production Cross Section
75-Re-186g
75-Re-186m4
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
2
3
4
5
6
7
8
9
10^2
2
81
Incident Energy (MeV)
77-Ir-189

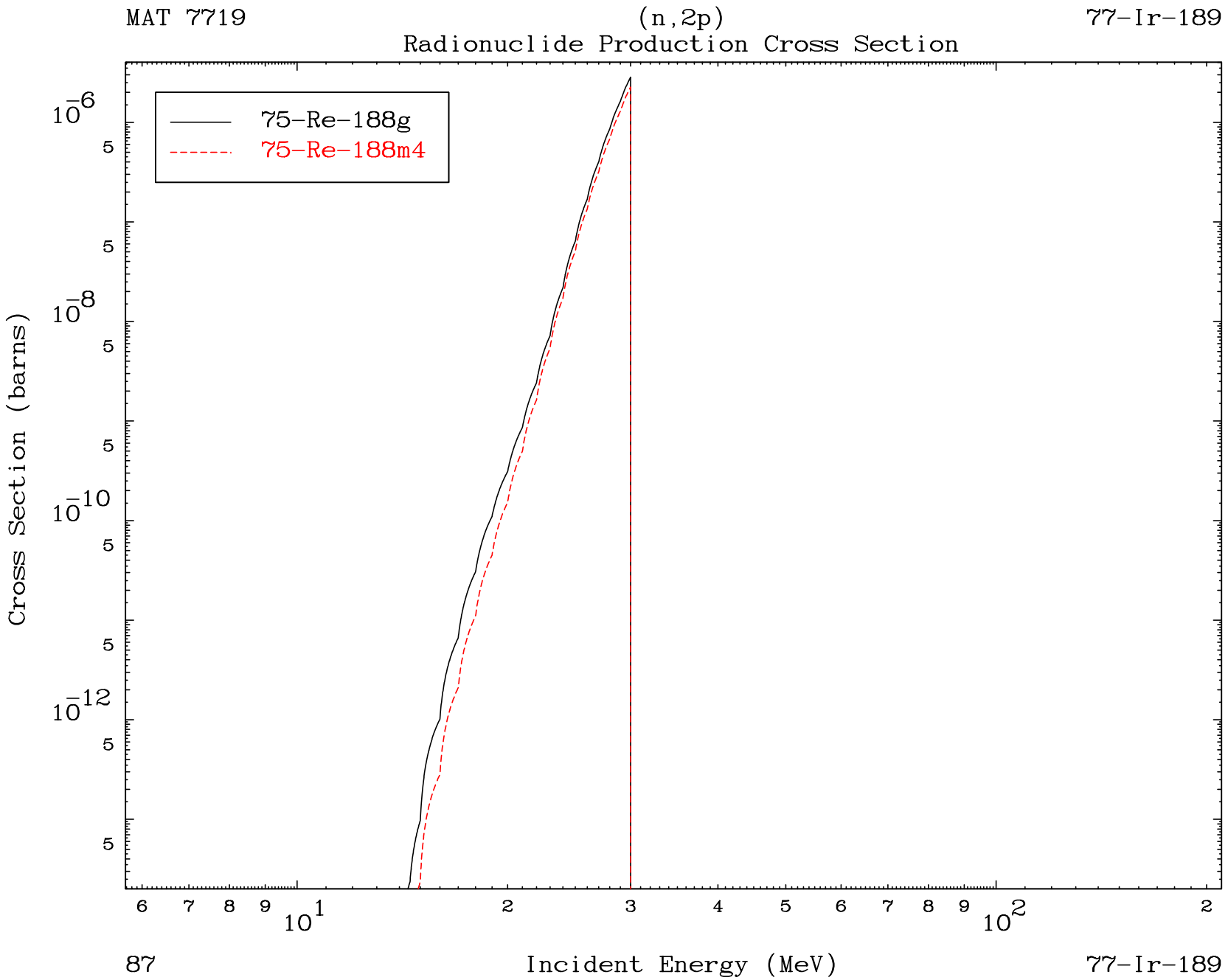

MAT 7719
(n,4n)
77-Ir-189
Radionuclide Production Cross Section
77-Ir-186g
77-Ir-186m1
Cross Section (barns)
Incident Energy (MeV)
82
77-Ir-189

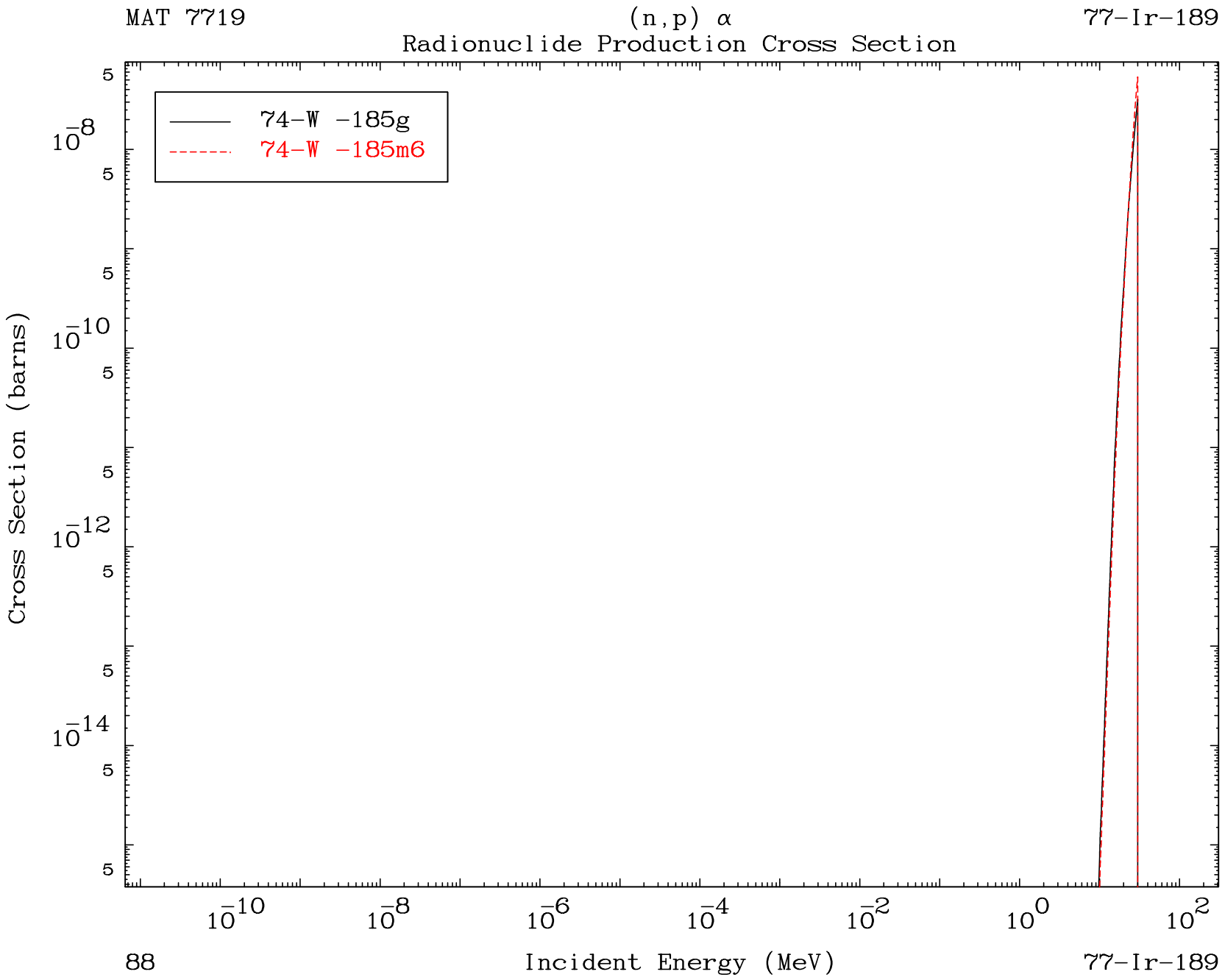

MAT 7719
(n,γ)
77-Ir-189
Radionuclide Production Cross Section
77-Ir-190g
77-Ir-190m2
Cross Section (barns)
10^2
10^0
10^-2
10^-4
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
83
Incident Energy (MeV)
77-Ir-189

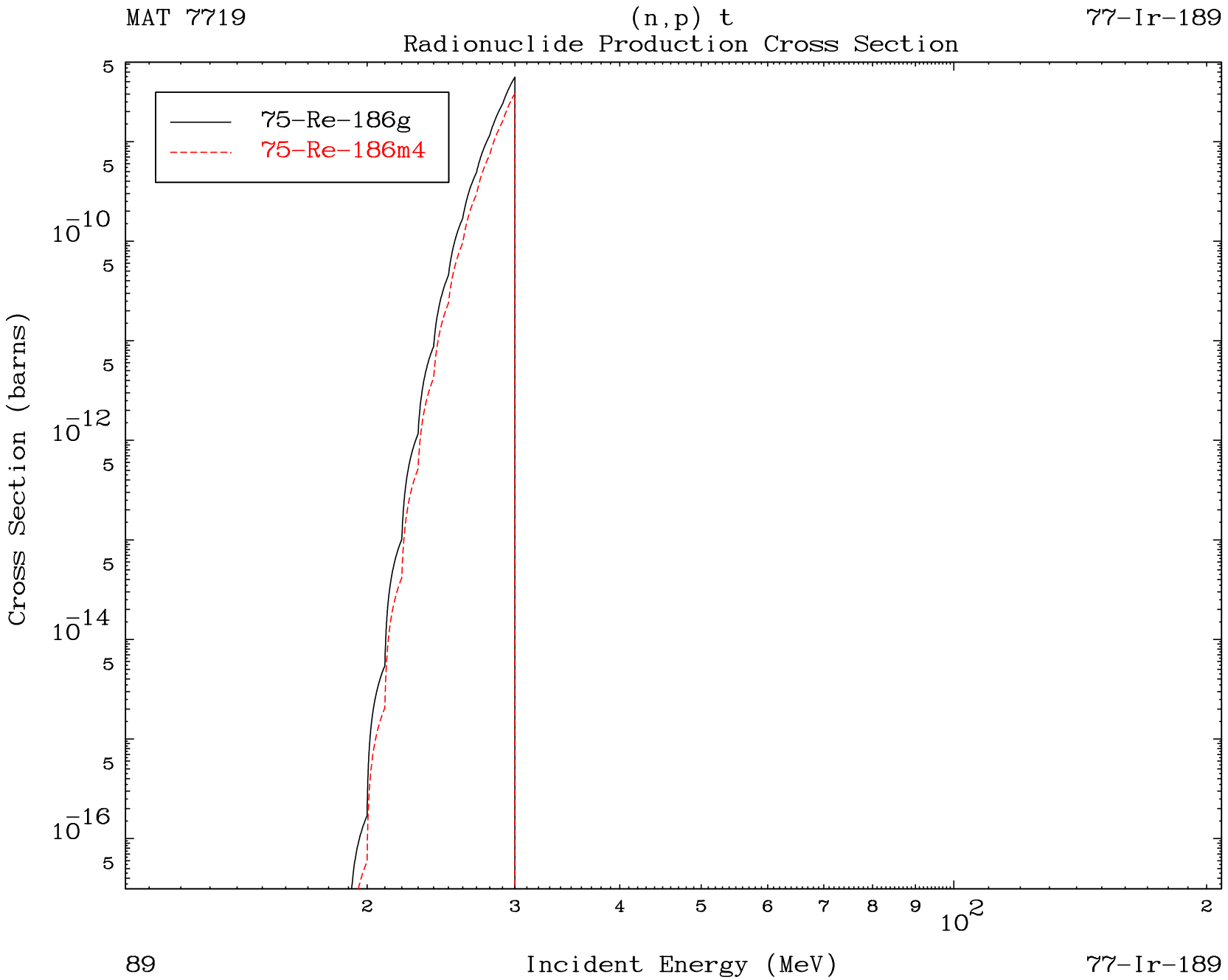

MAT 7719
(n,p)
77-Ir-189
Radionuclide Production Cross Section
76-Os-189g
76-Os-189m1
Cross Section (barns)
Incident Energy (MeV)
84
77-Ir-189


MAT 7719
(n,α)
77-Ir-189
Radionuclide Production Cross Section
75-Re-186g
75-Re-186m4
Cross Section (barns)
Incident Energy (MeV)
85
77-Ir-189


MAT 7719
(n,2α)
77-Ir-189
Radionuclide Production Cross Section
73-Ta-182g
73-Ta-182m1
73-Ta-182m29
Cross Section (barns)
Incident Energy (MeV)
86
77-Ir-189


MAT 7719
(n,2p)
77-Ir-189
Radionuclide Production Cross Section
75-Re-188g
75-Re-188m4
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
6 7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
87
Incident Energy (MeV)
77-Ir-189


MAT 7719
(n,p) α
77-Ir-189
Radionuclide Production Cross Section
74-W -185g
74-W -185m6
Cross Section (barns)
Incident Energy (MeV)
88
77-Ir-189


MAT 7719
(n,p) t
77-Ir-189
Radionuclide Production Cross Section
75-Re-186g
75-Re-186m4
Cross Section (barns)
5
5
10^-10
5
5
10^-12
5
5
10^-14
5
5
10^-16
5
2
3
4
5
6
7
8
9
10^2
2
89
Incident Energy (MeV)
77-Ir-189