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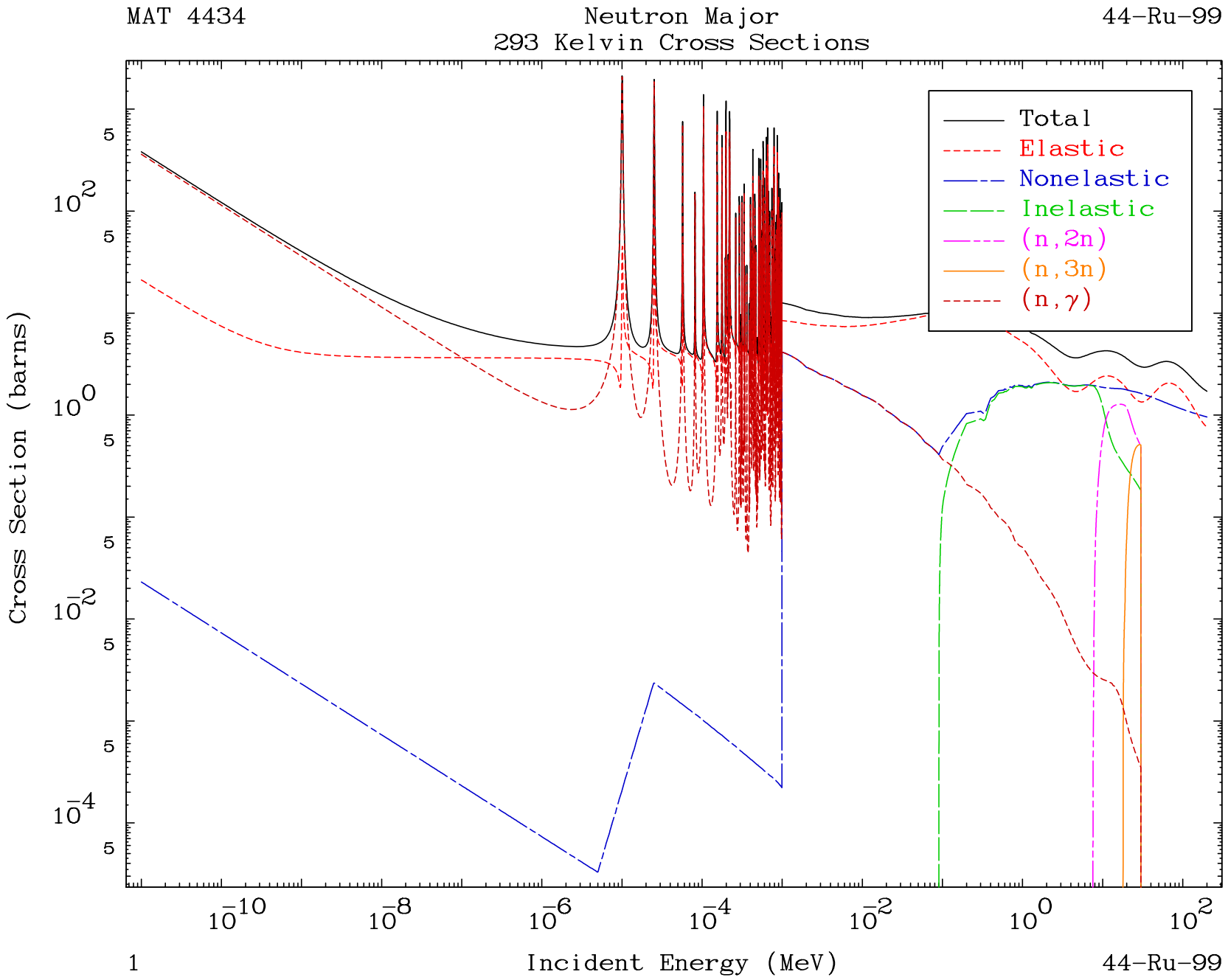
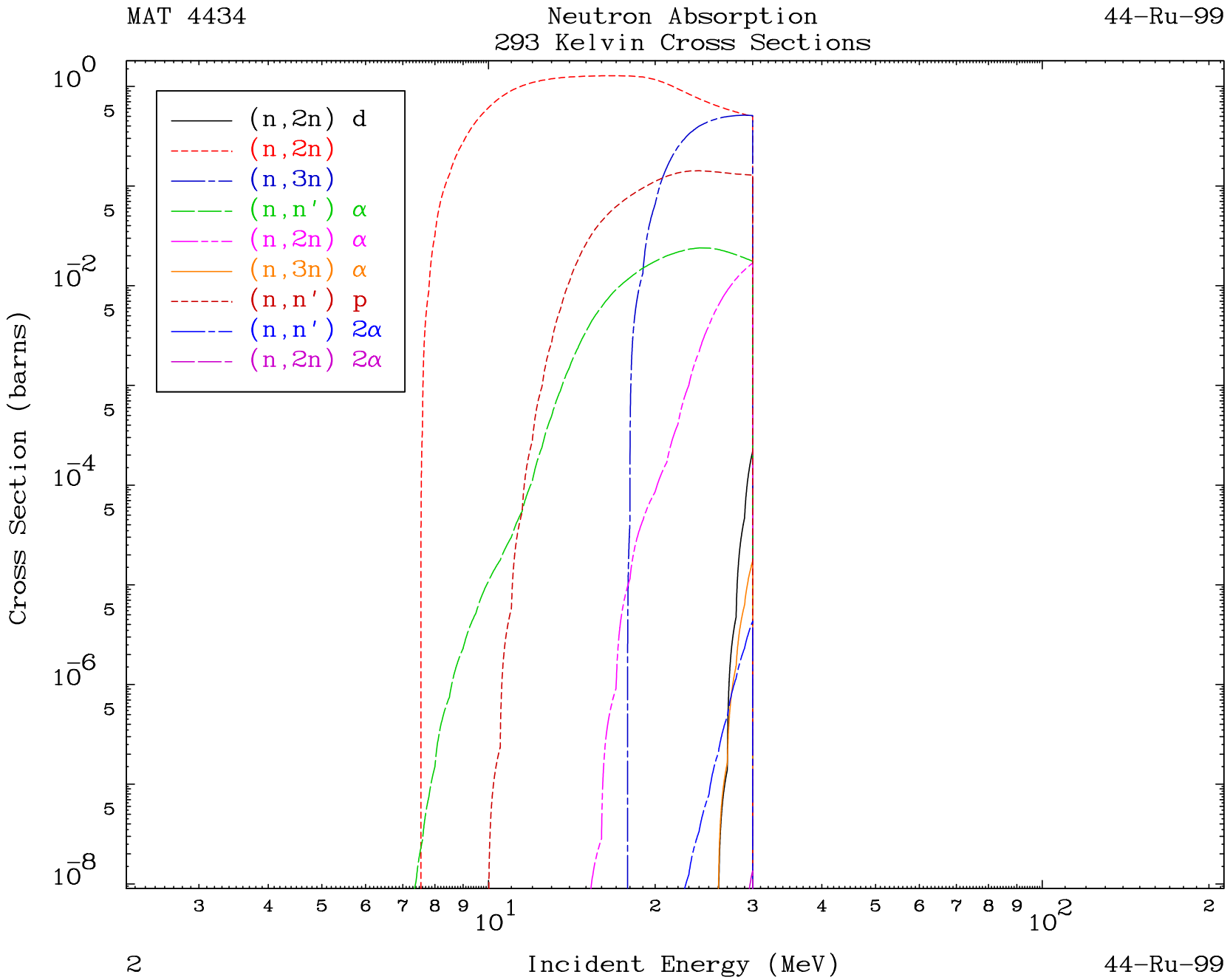
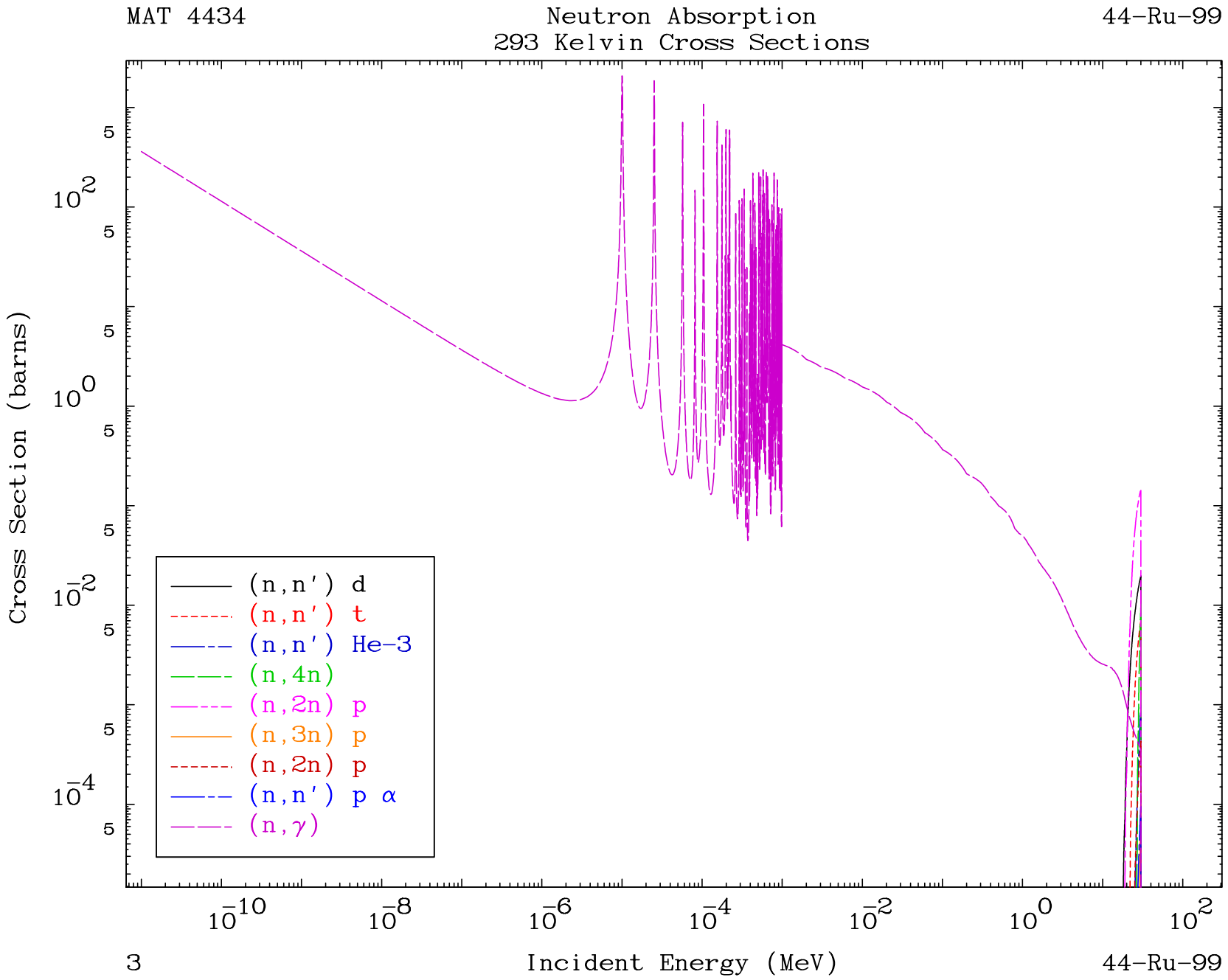
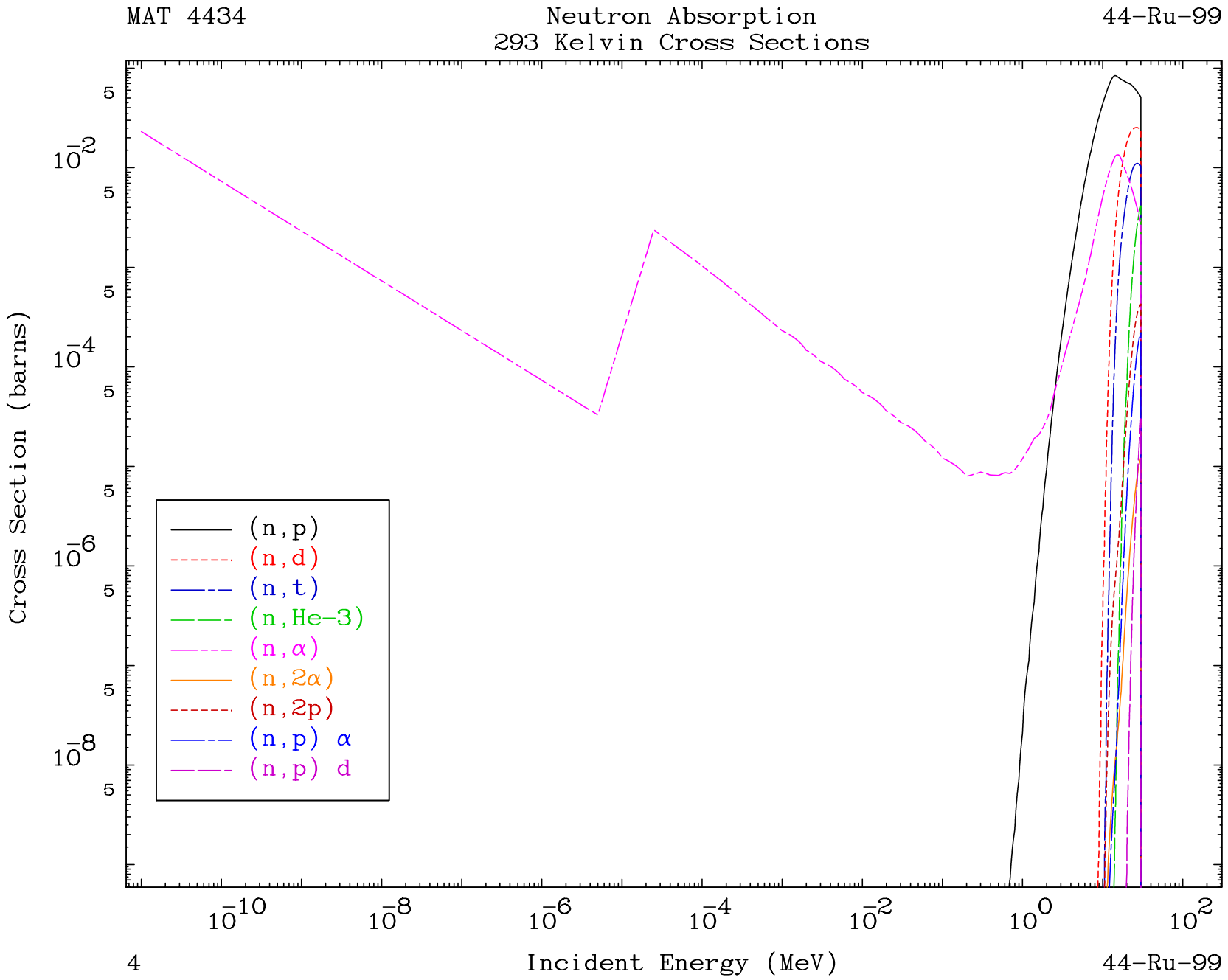
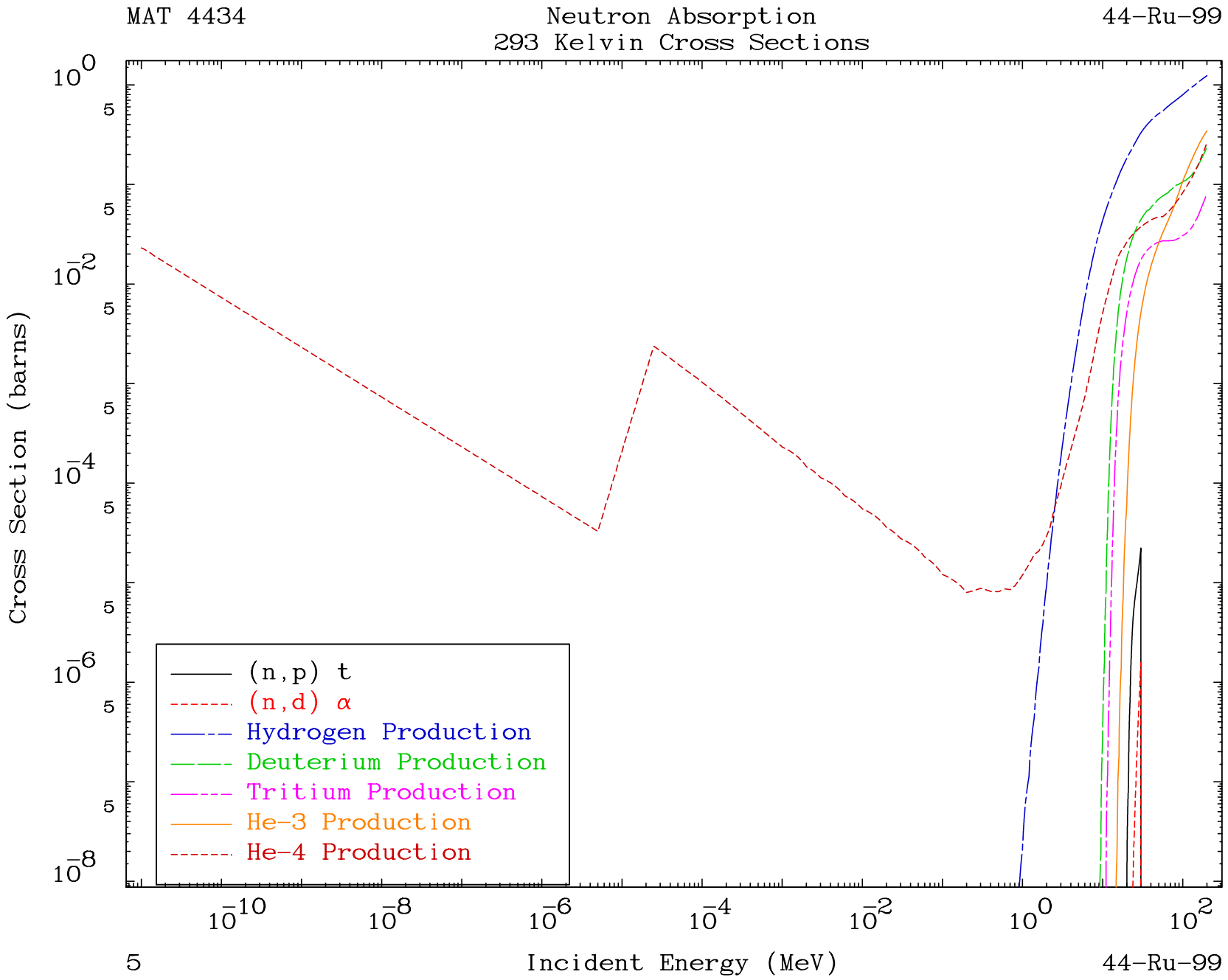
Press Mouse Button to Start

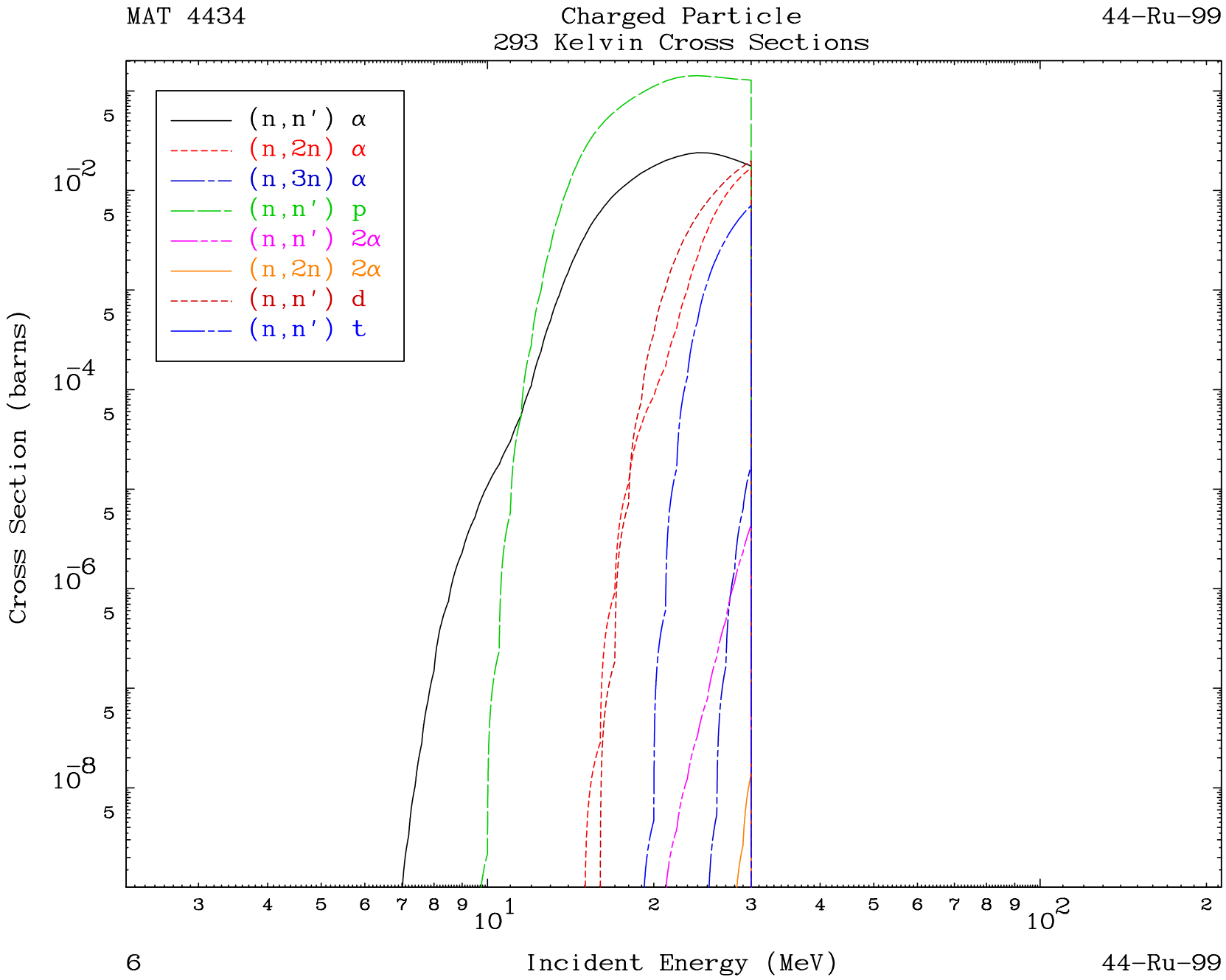

MAT 4434
Neutron Major
293 Kelvin Cross Sections
44-Ru-99
Total
Elastic
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
1
44-Ru-99

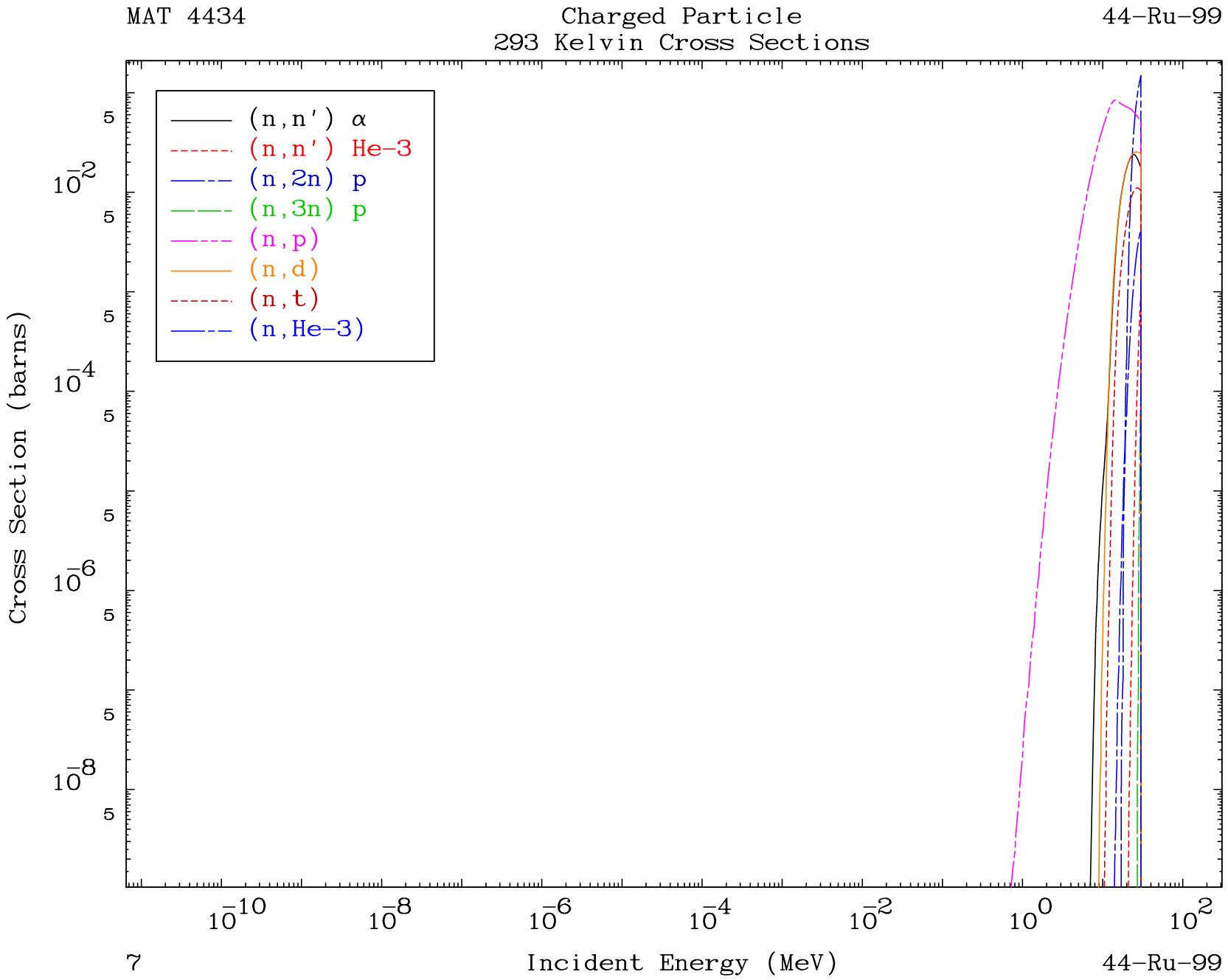

MAT 4434
Neutron Absorption
293 Kelvin Cross Sections
44-Ru-99
(n,2n) d
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,2n) 2α
Cross Section (barns)
Incident Energy (MeV)
2
44-Ru-99

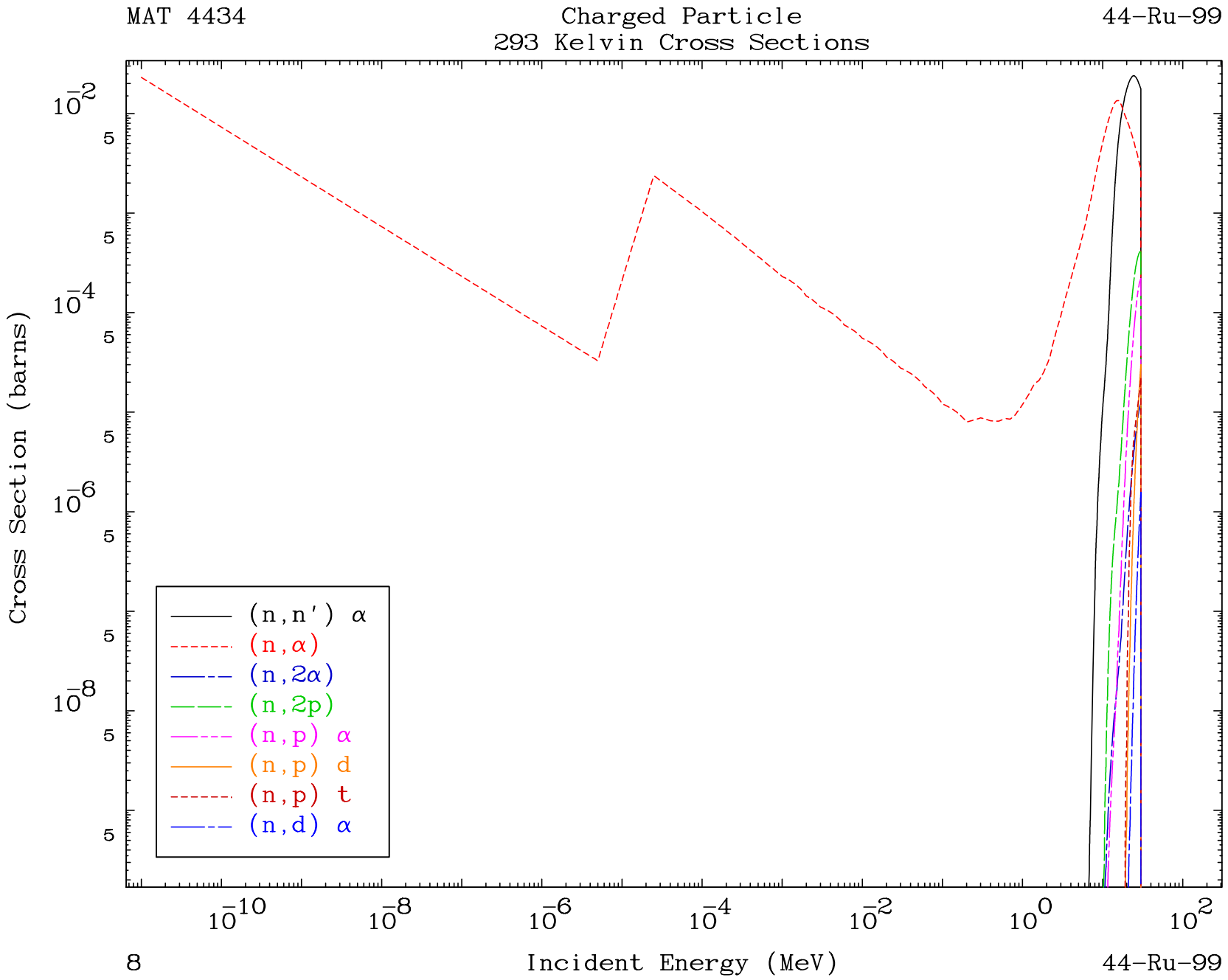

MAT 4434
Neutron Absorption
293 Kelvin Cross Sections
44-Ru-99
Cross Section (barns)
Incident Energy (MeV)
(n,n') d
(n,n') t
(n,n') He-3
(n,4n)
(n,2n) p
(n,3n) p
(n,2n) p
(n,n') p α
(n,γ)
3
44-Ru-99

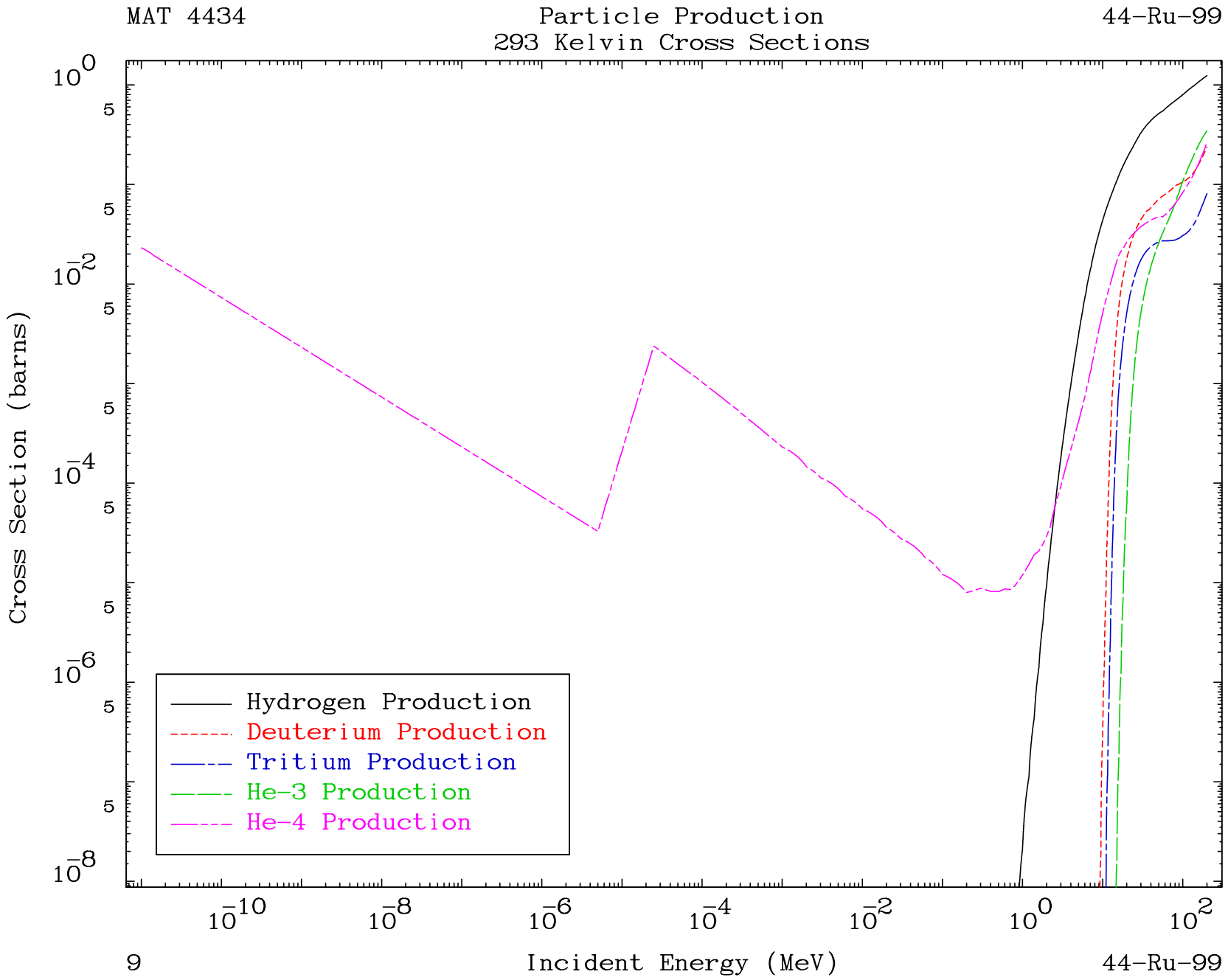

MAT 4434
Neutron Absorption
293 Kelvin Cross Sections
44-Ru-99
Cross Section (barns)
Incident Energy (MeV)
(n,p)
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
4
44-Ru-99

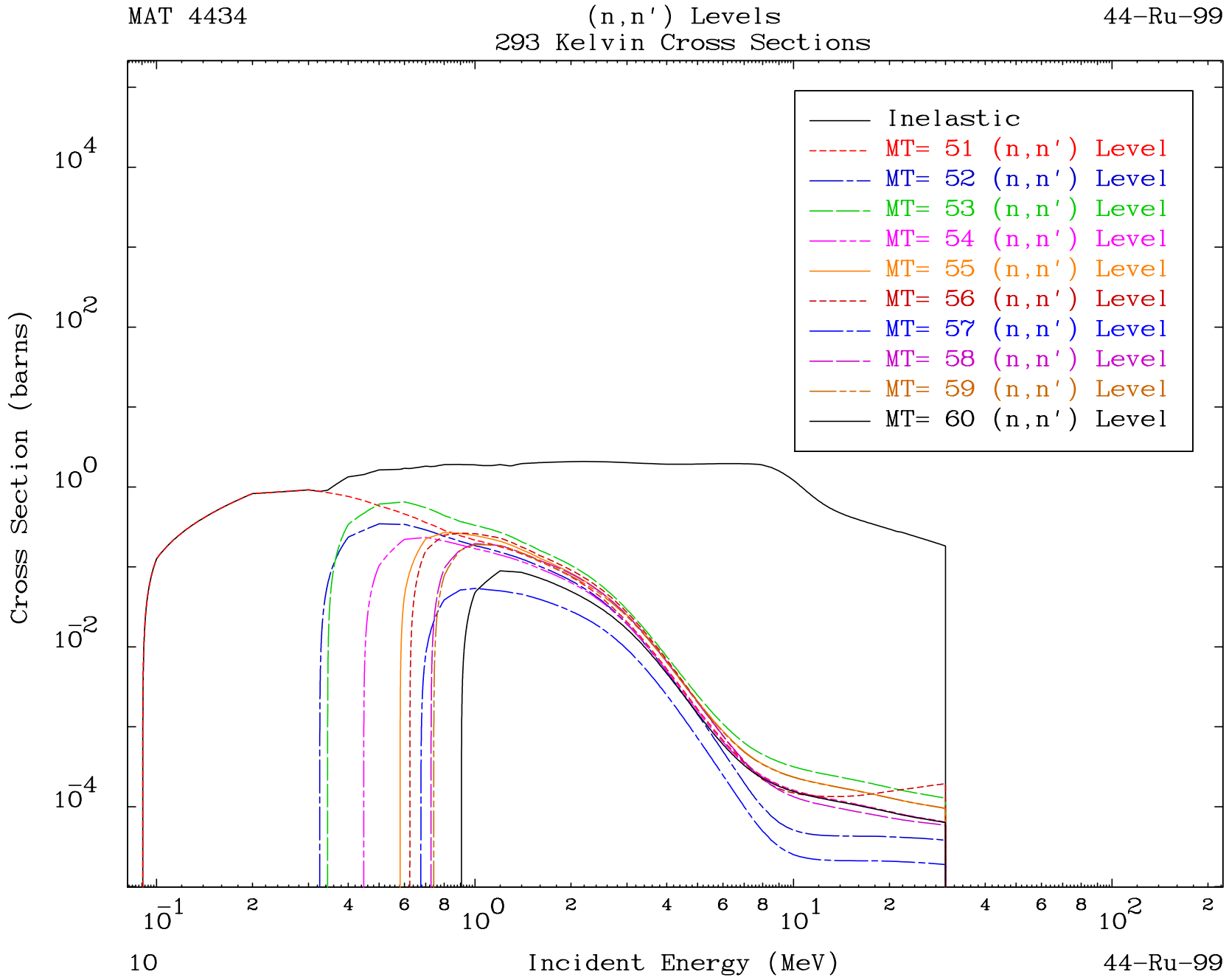

MAT 4434
Neutron Absorption
293 Kelvin Cross Sections
44-Ru-99
Cross Section (barns)
Incident Energy (MeV)
(n,p) t
(n,d) α
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production
5
44-Ru-99

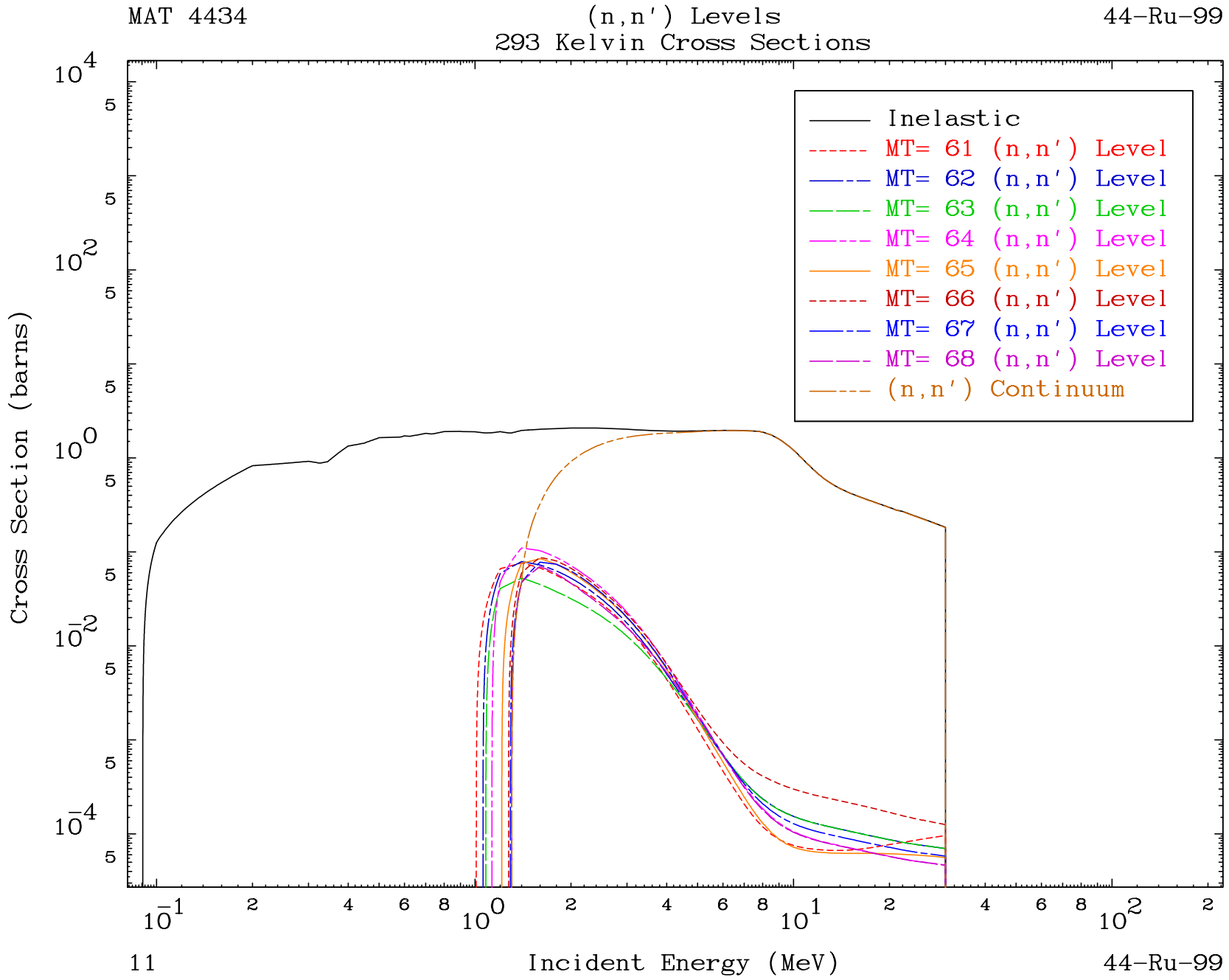

MAT 4434
Charged Particle
293 Kelvin Cross Sections
44-Ru-99
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,2n) 2α
(n,n') d
(n,n') t
Cross Section (barns)
10-2
10-4
10-6
10-8
5
3 4 5 6 7 8 9 10 1 2 3 4 5 6 7 8 9 10 2 2
Incident Energy (MeV)
6
44-Ru-99

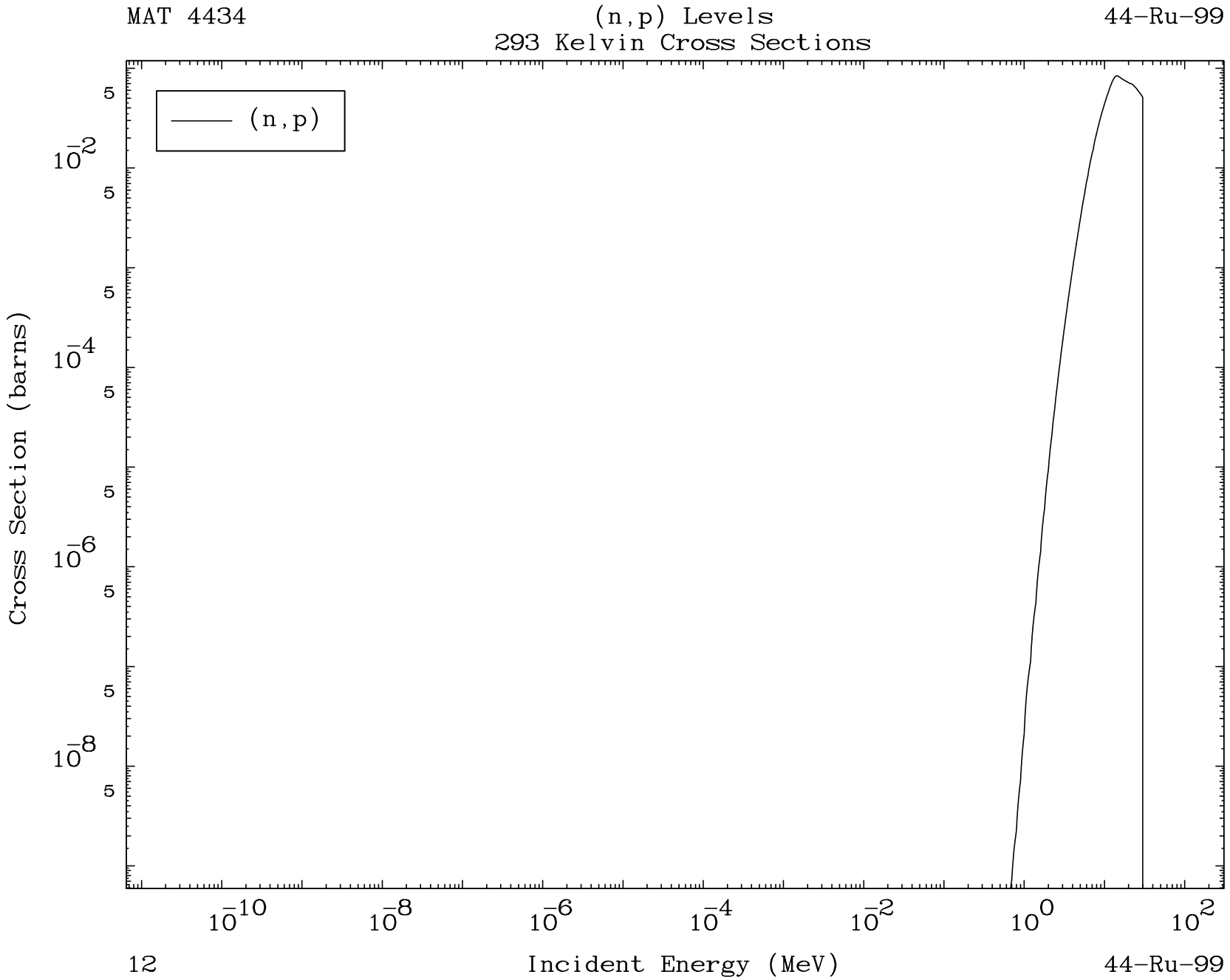

MAT 4434
Charged Particle
293 Kelvin Cross Sections
44-Ru-99
(n,n') α
(n,n') He-3
(n,2n) p
(n,3n) p
(n,p)
(n,d)
(n,t)
(n,He-3)
Cross Section (barns)
Incident Energy (MeV)
7
44-Ru-99

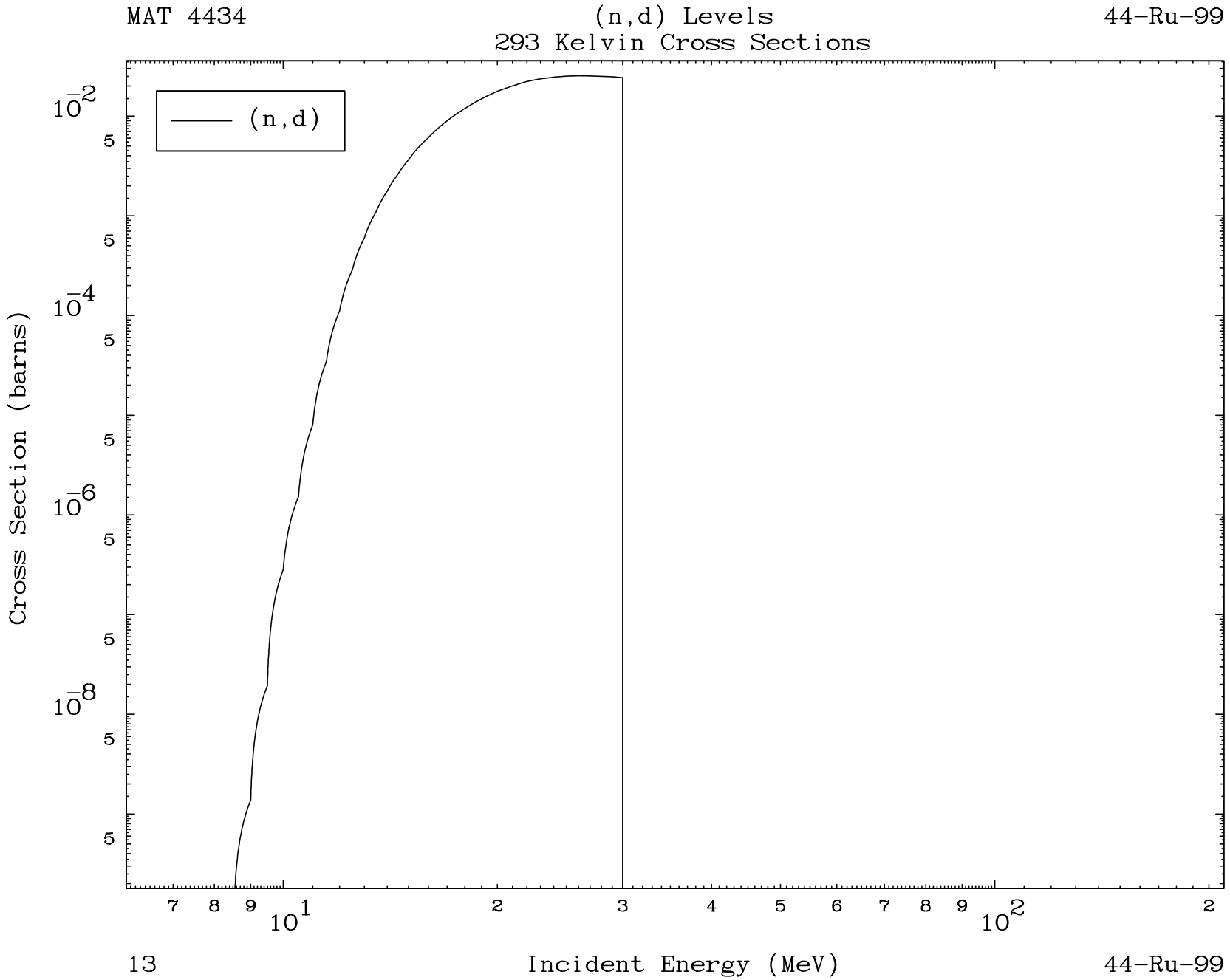

MAT 4434
Charged Particle
293 Kelvin Cross Sections
44-Ru-99
Cross Section (barns)
Incident Energy (MeV)
(n,n') α
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
8
44-Ru-99

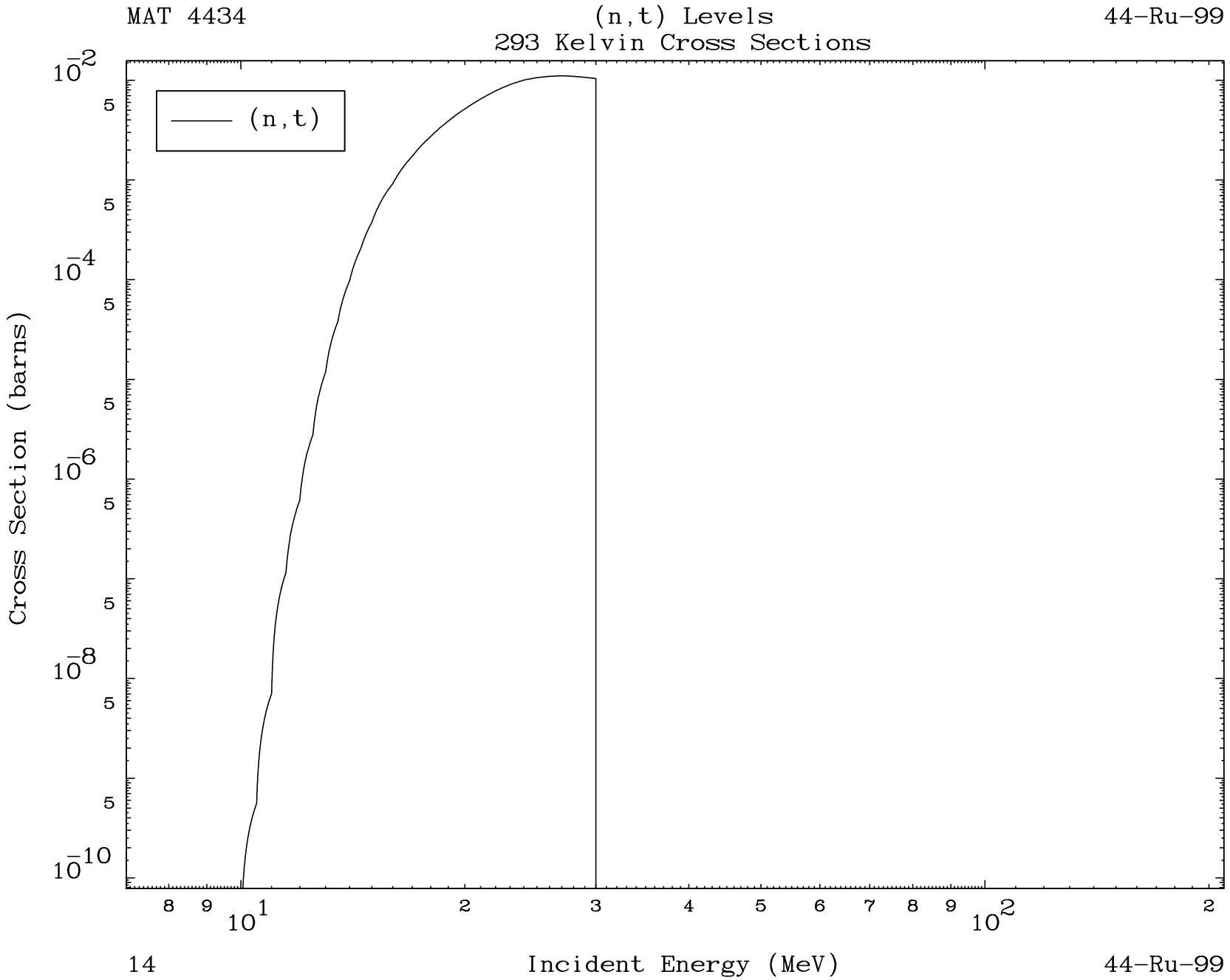

MAT 4434
Particle Production
293 Kelvin Cross Sections
44-Ru-99
Cross Section (barns)
Incident Energy (MeV)
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production
9
44-Ru-99

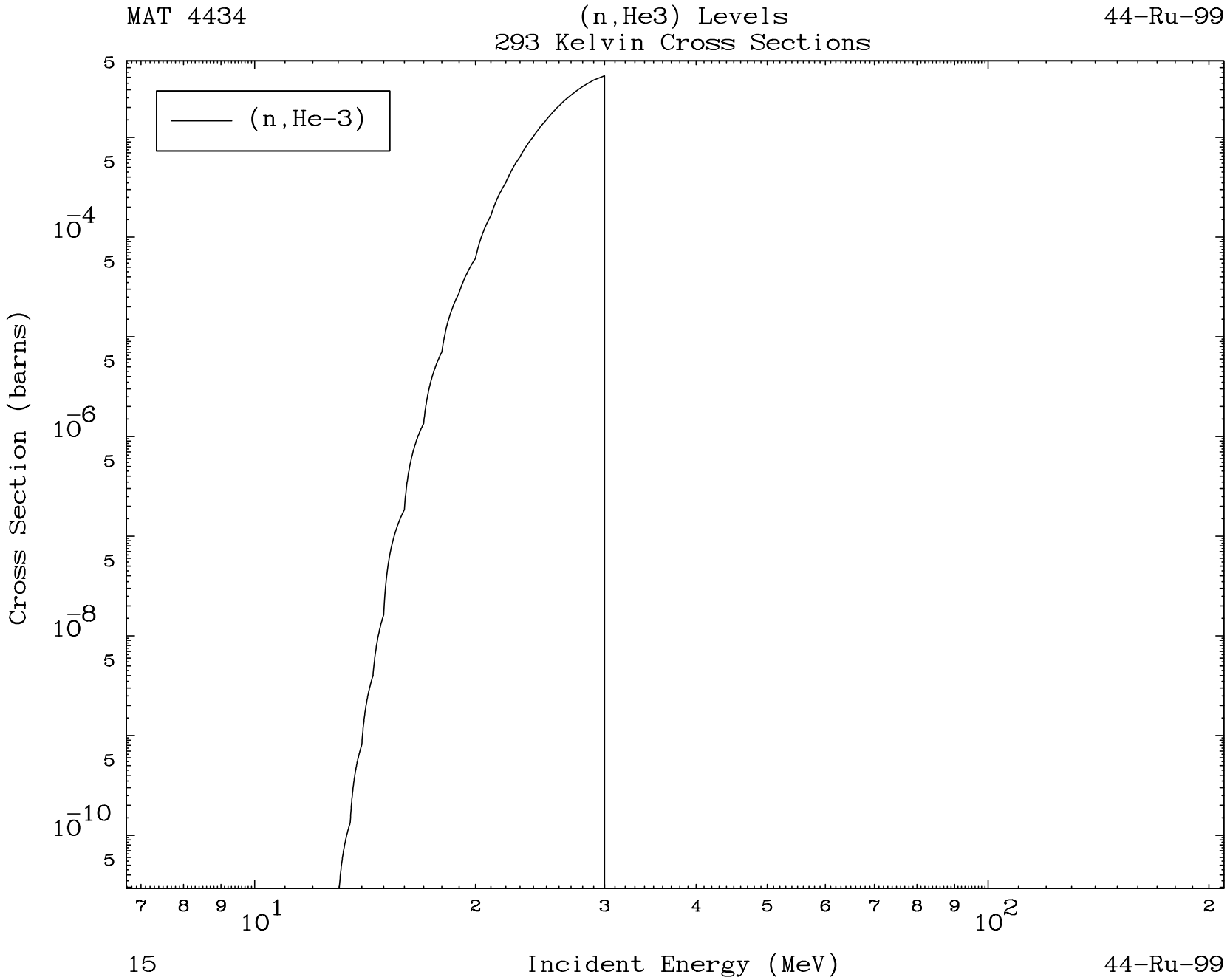

MAT 4434
(n,n') Levels
293 Kelvin Cross Sections
44-Ru-99
Inelastic
MT= 51 (n,n') Level
MT= 52 (n,n') Level
MT= 53 (n,n') Level
MT= 54 (n,n') Level
MT= 55 (n,n') Level
MT= 56 (n,n') Level
MT= 57 (n,n') Level
MT= 58 (n,n') Level
MT= 59 (n,n') Level
MT= 60 (n,n') Level
Cross Section (barns)
Incident Energy (MeV)
10
44-Ru-99

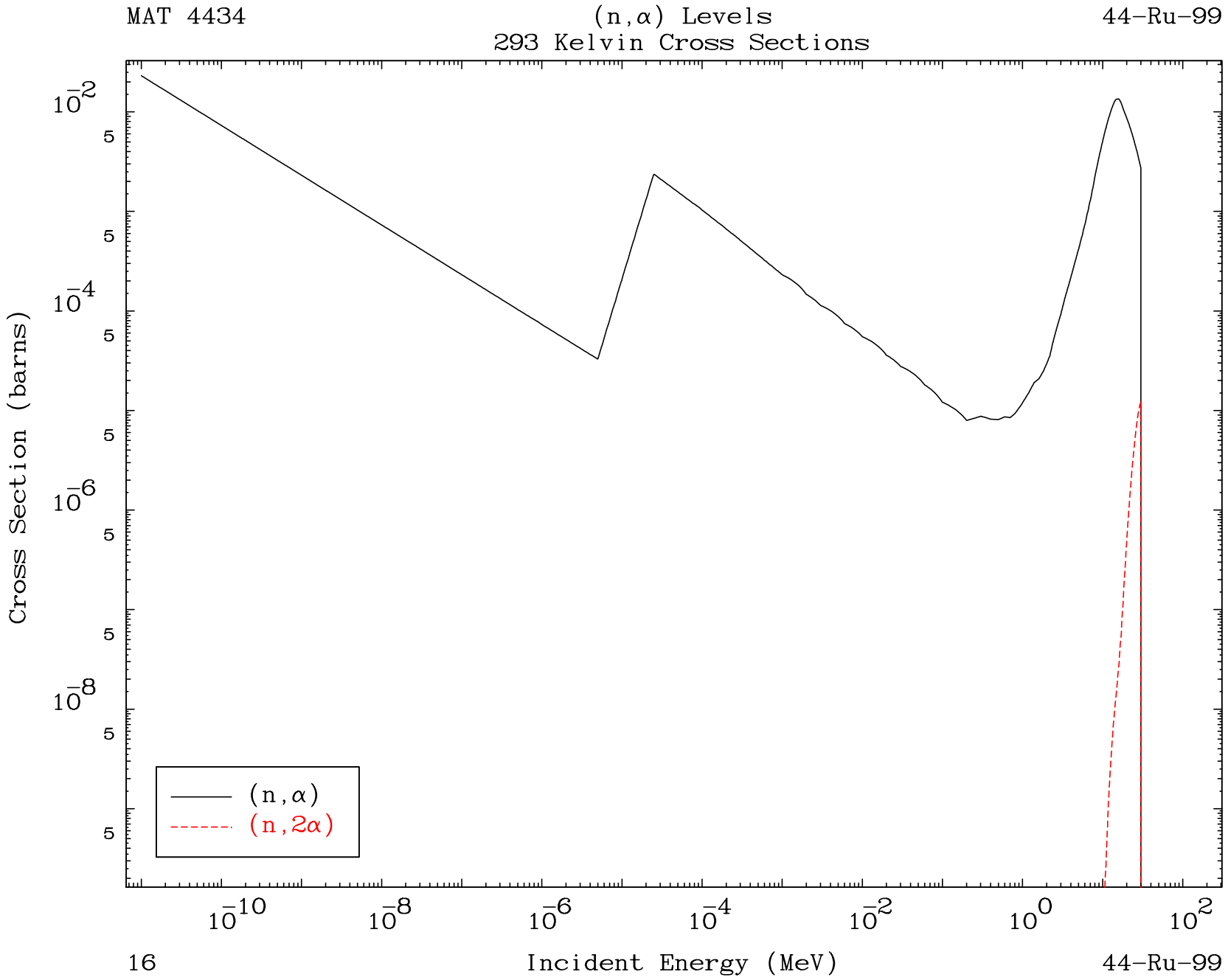

MAT 4434
(n,n') Levels
293 Kelvin Cross Sections
44-Ru-99
Inelastic
MT= 61 (n,n') Level
MT= 62 (n,n') Level
MT= 63 (n,n') Level
MT= 64 (n,n') Level
MT= 65 (n,n') Level
MT= 66 (n,n') Level
MT= 67 (n,n') Level
MT= 68 (n,n') Level
(n,n') Continuum
Cross Section (barns)
Incident Energy (MeV)
11
44-Ru-99

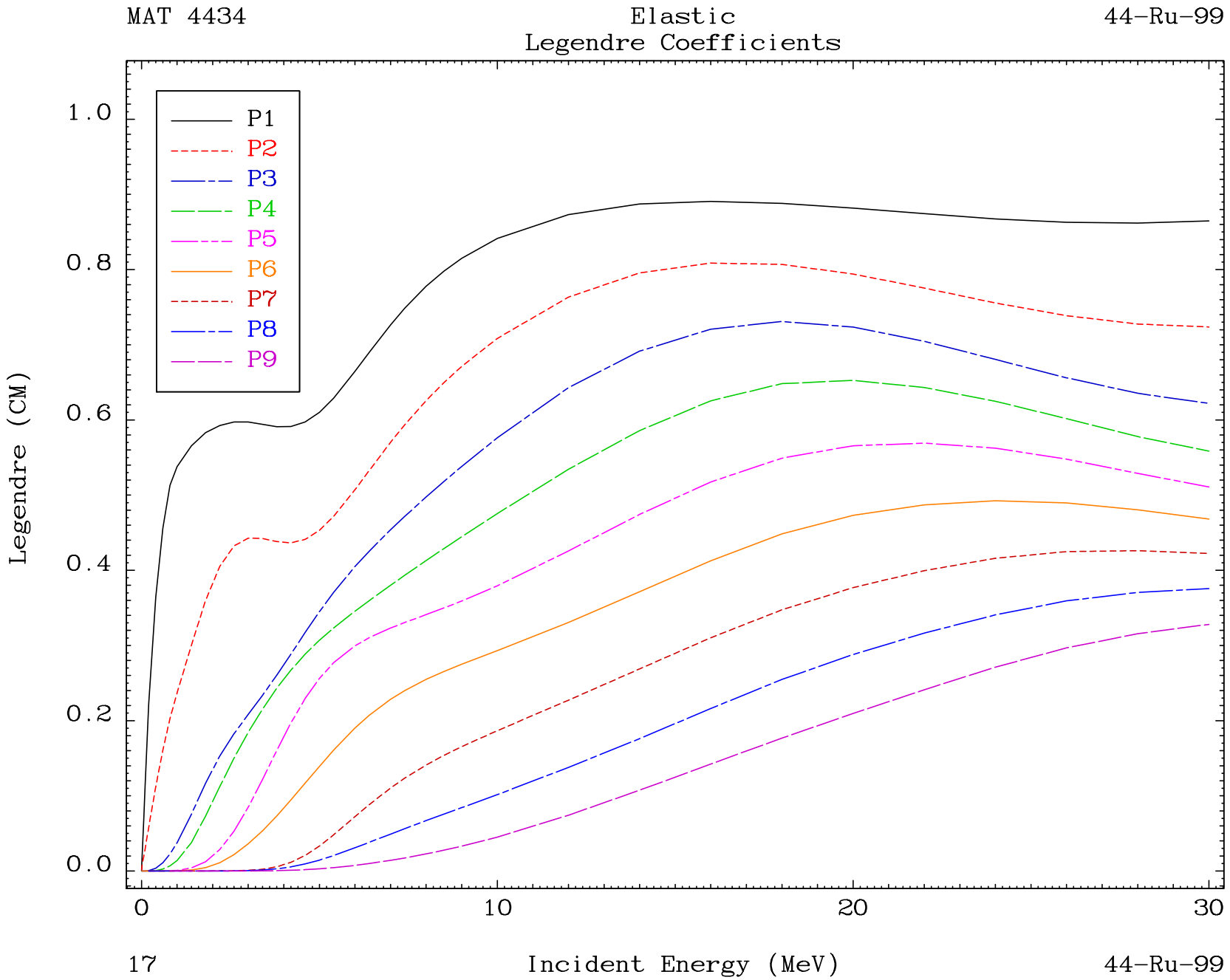

MAT 4434
(n,p) Levels
44-Ru-99
293 Kelvin Cross Sections
(n,p)
Cross Section (barns)
Incident Energy (MeV)
12
44-Ru-99

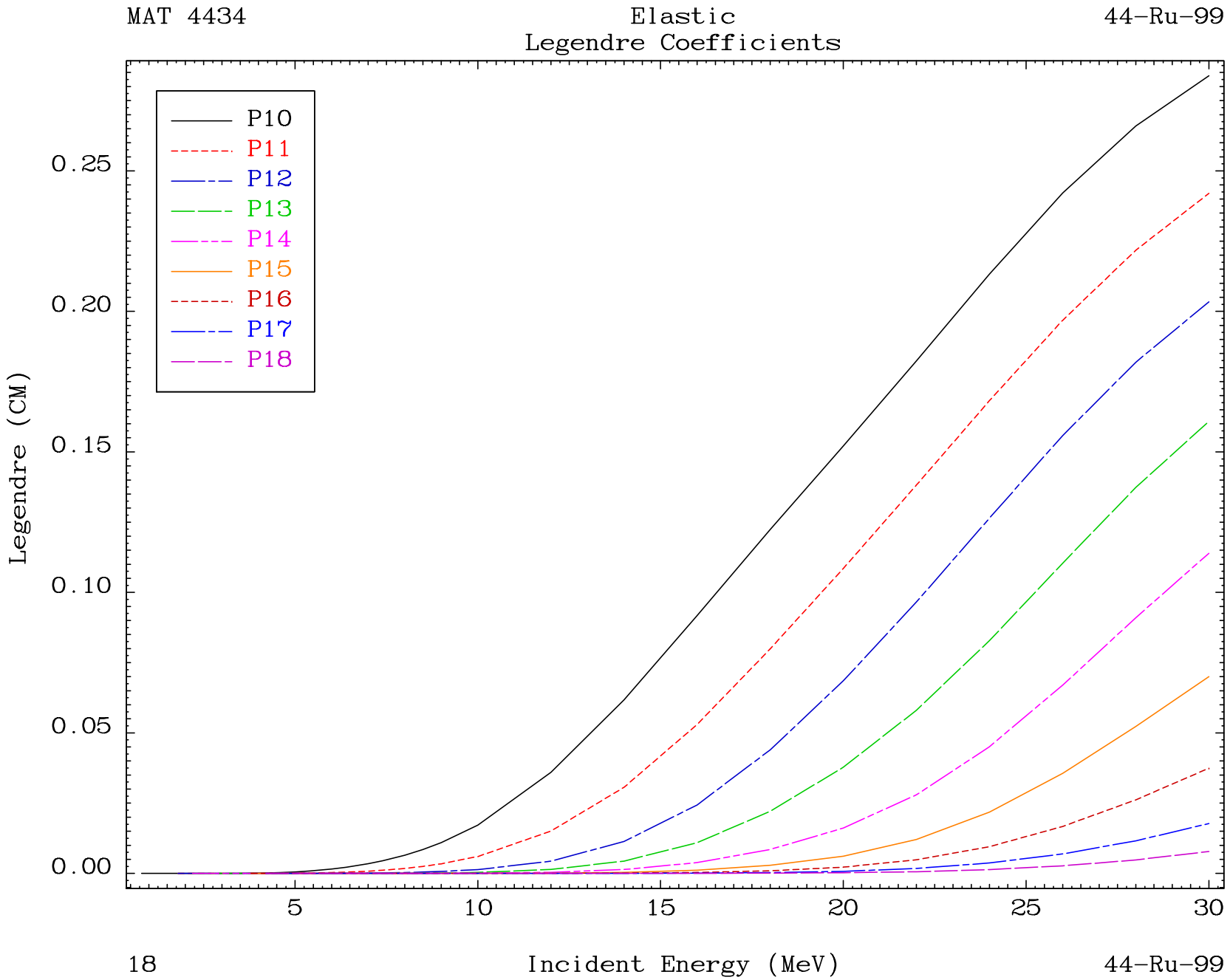

MAT 4434
(n,d) Levels
44-Ru-99
293 Kelvin Cross Sections
(n,d)
Cross Section (barns)
Incident Energy (MeV)
13
44-Ru-99

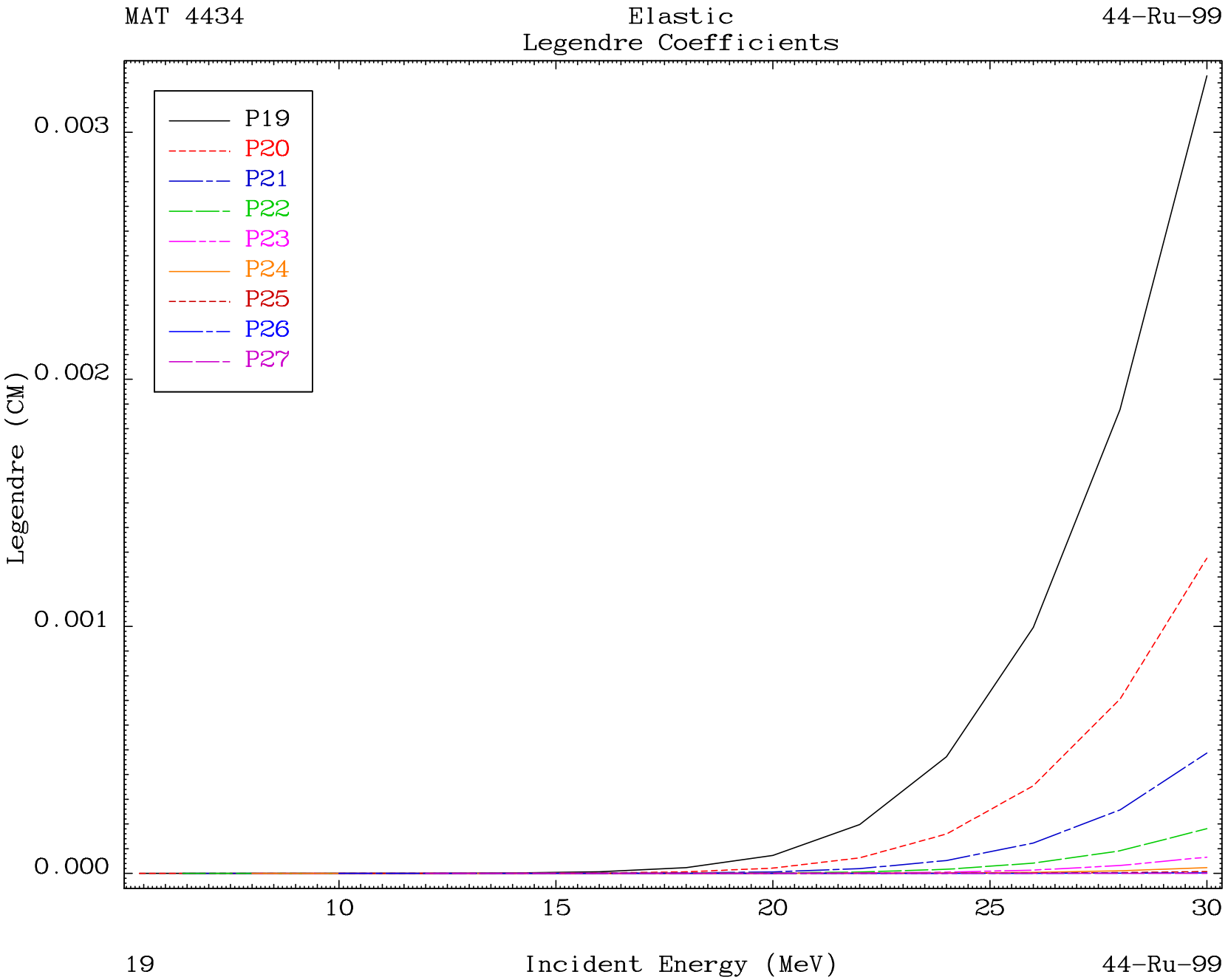

MAT 4434
(n,t) Levels
44-Ru-99
293 Kelvin Cross Sections
(n,t)
Cross Section (barns)
Incident Energy (MeV)
14
44-Ru-99

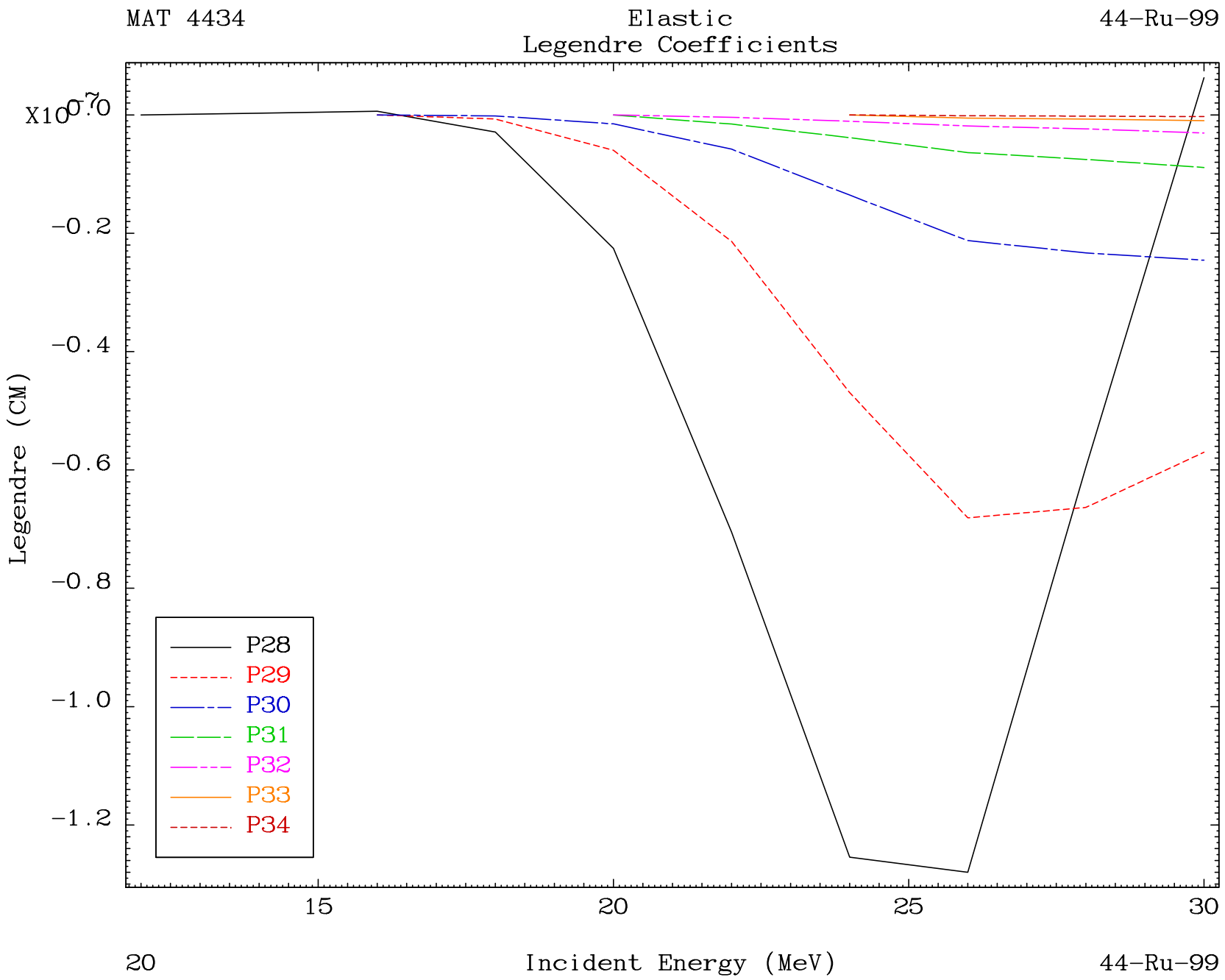

MAT 4434
(n,He3) Levels
44-Ru-99
293 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
Incident Energy (MeV)
15
44-Ru-99

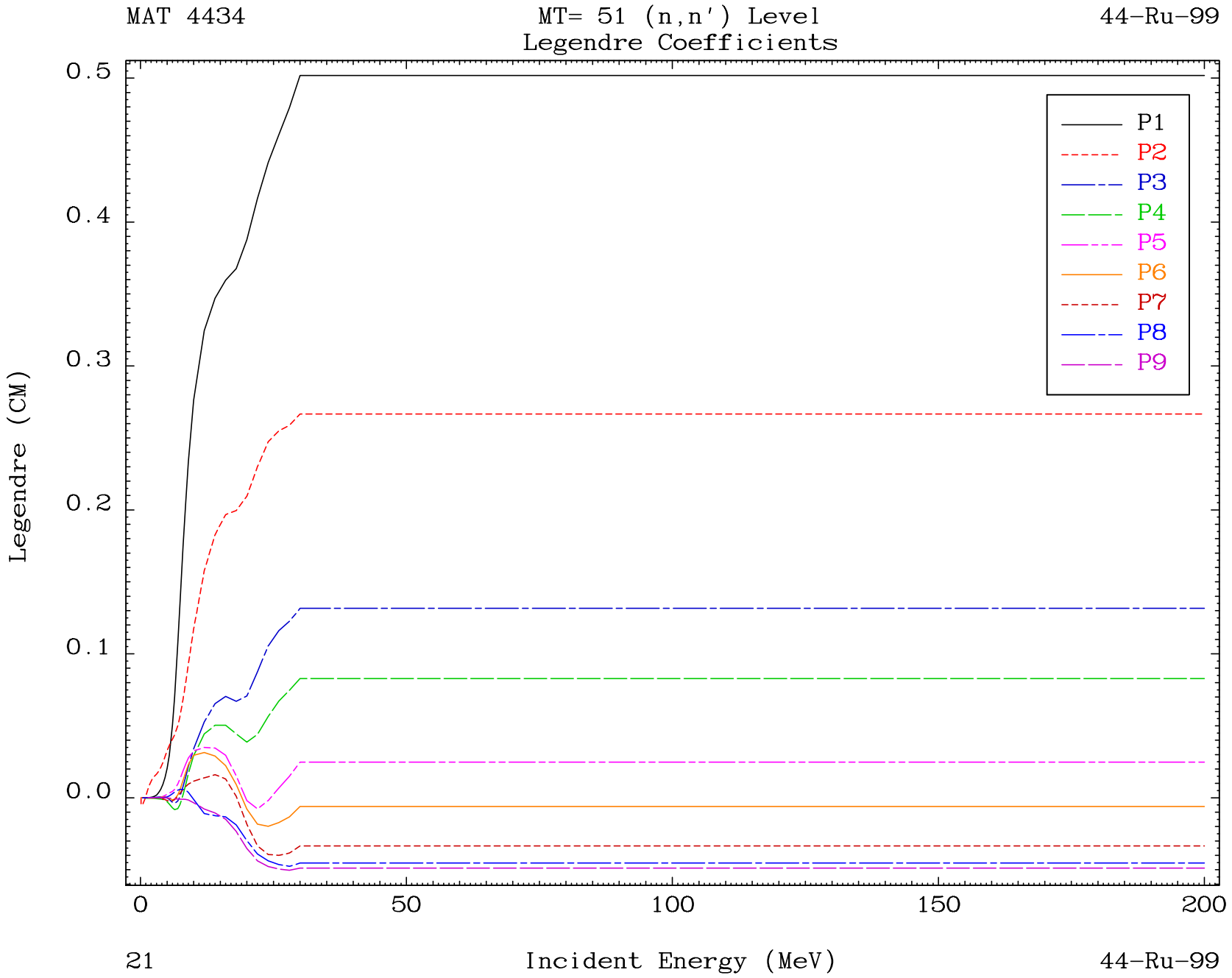

MAT 4434
(n,α) Levels
44-Ru-99
293 Kelvin Cross Sections
Cross Section (barns)
10-2
10-4
10-6
10-8
(n,α)
(n,2α)
10-10
10-8
10-6
10-4
10-2
100
102
16
Incident Energy (MeV)
44-Ru-99

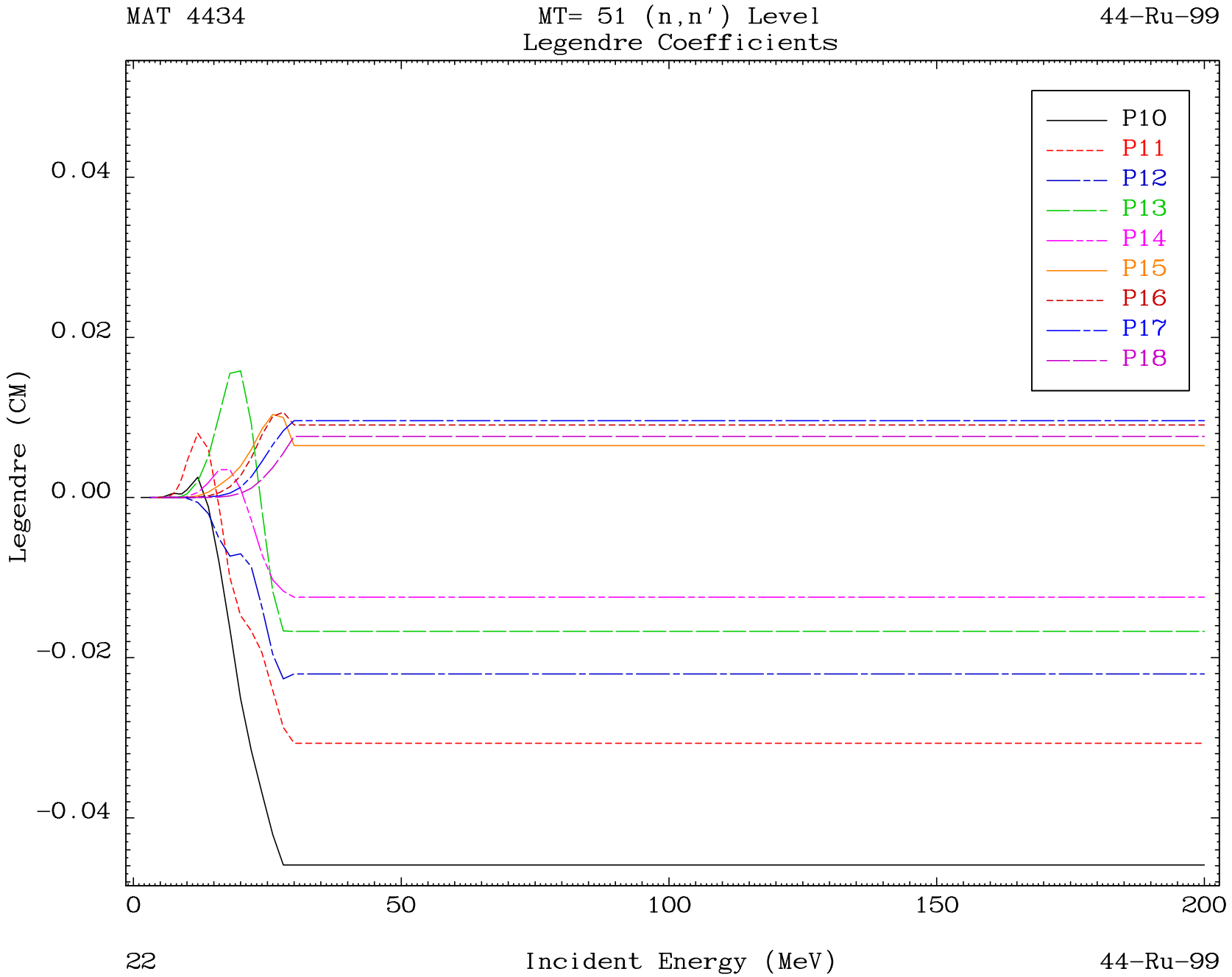

MAT 4434
Elastic
Legendre Coefficients
44-Ru-99
P1
P2
P3
P4
P5
P6
P7
P8
P9
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
0
10
20
30
17
Incident Energy (MeV)
44-Ru-99

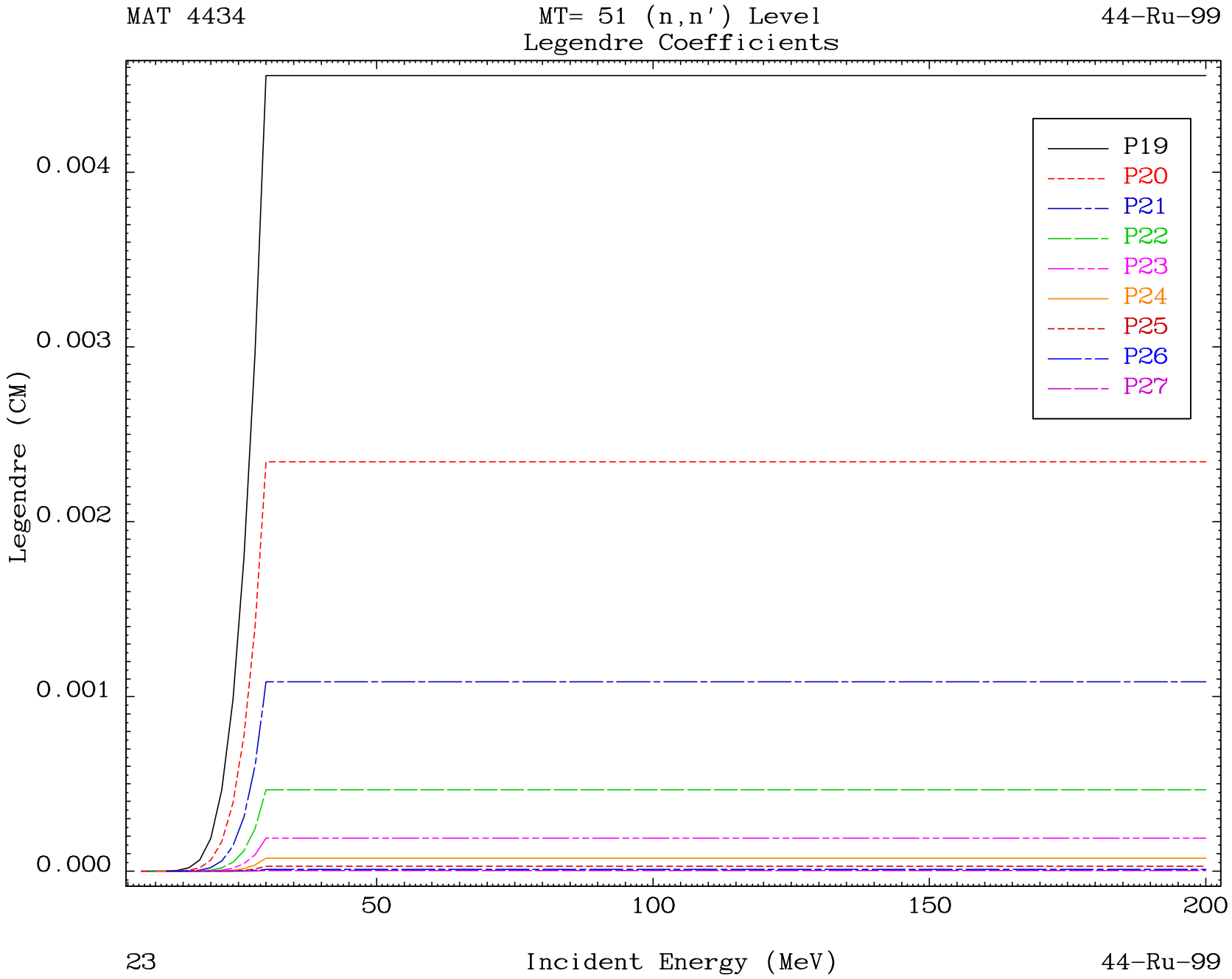

MAT 4434
Elastic
Legendre Coefficients
44-Ru-99
P10
P11
P12
P13
P14
P15
P16
P17
P18
Legendre (CM)
0.25
0.20
0.15
0.10
0.05
0.00
5
10
15
20
25
30
18
Incident Energy (MeV)
44-Ru-99

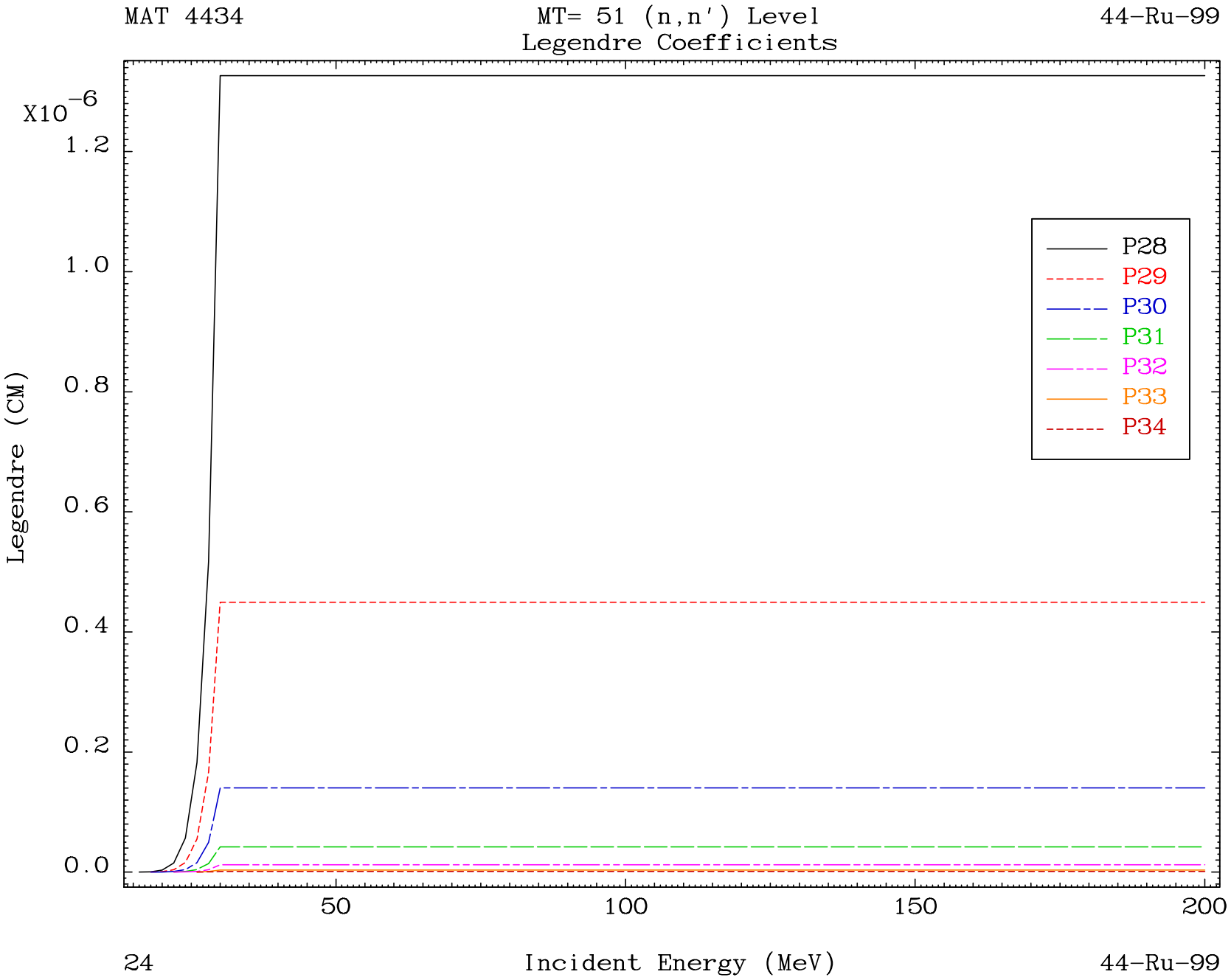

MAT 4434
Elastic
Legendre Coefficients
44-Ru-99
P19
P20
P21
P22
P23
P24
P25
P26
P27
0.003
0.002
0.001
0.000
Legendre (CM)
10
15
20
25
30
19
Incident Energy (MeV)
44-Ru-99

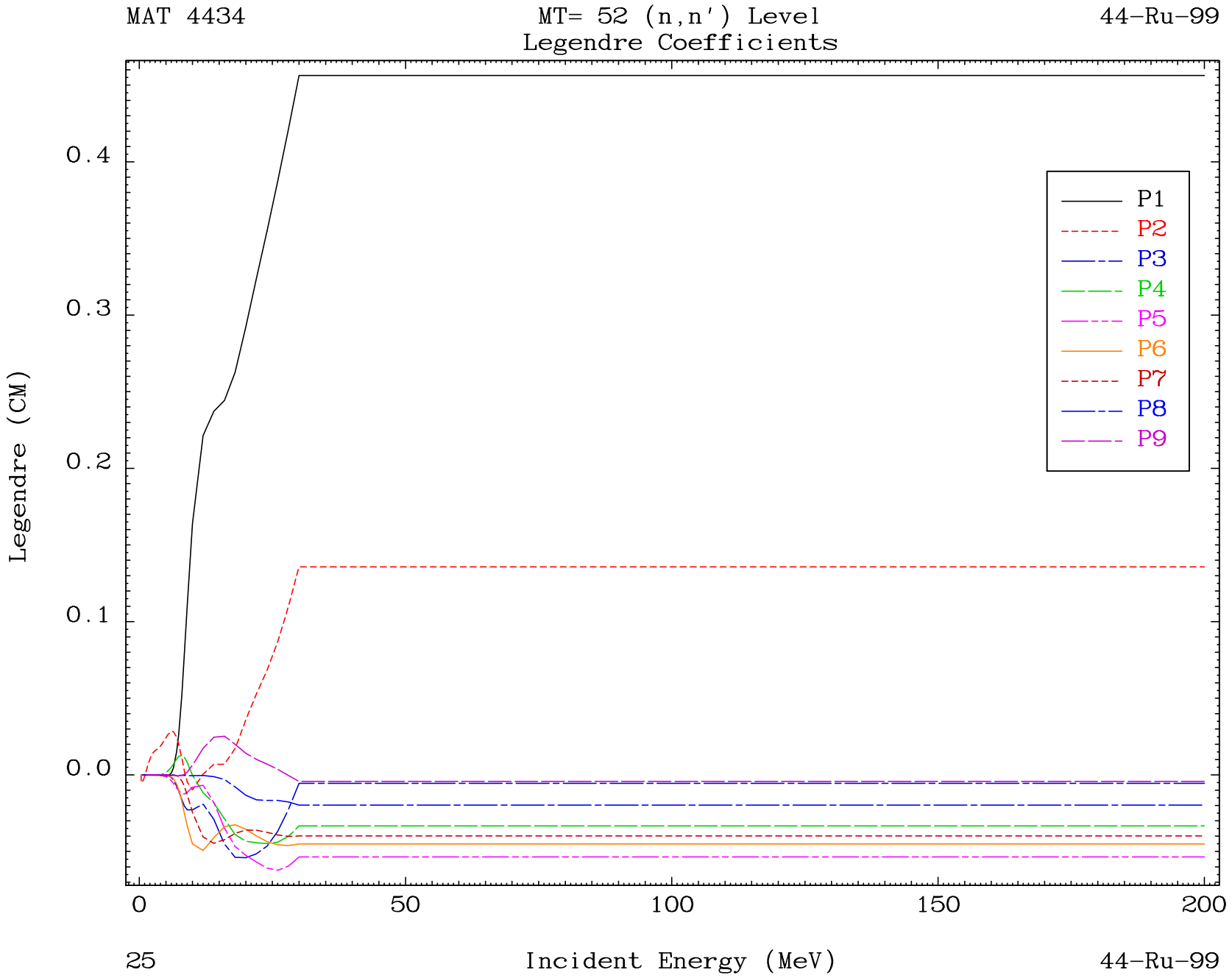

MAT 4434
Elastic
44-Ru-99
Legendre Coefficients
X10^-1
0.0
-0.2
-0.4
-0.6
-0.8
-1.0
-1.2
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
15
20
25
30
20
Incident Energy (MeV)
44-Ru-99

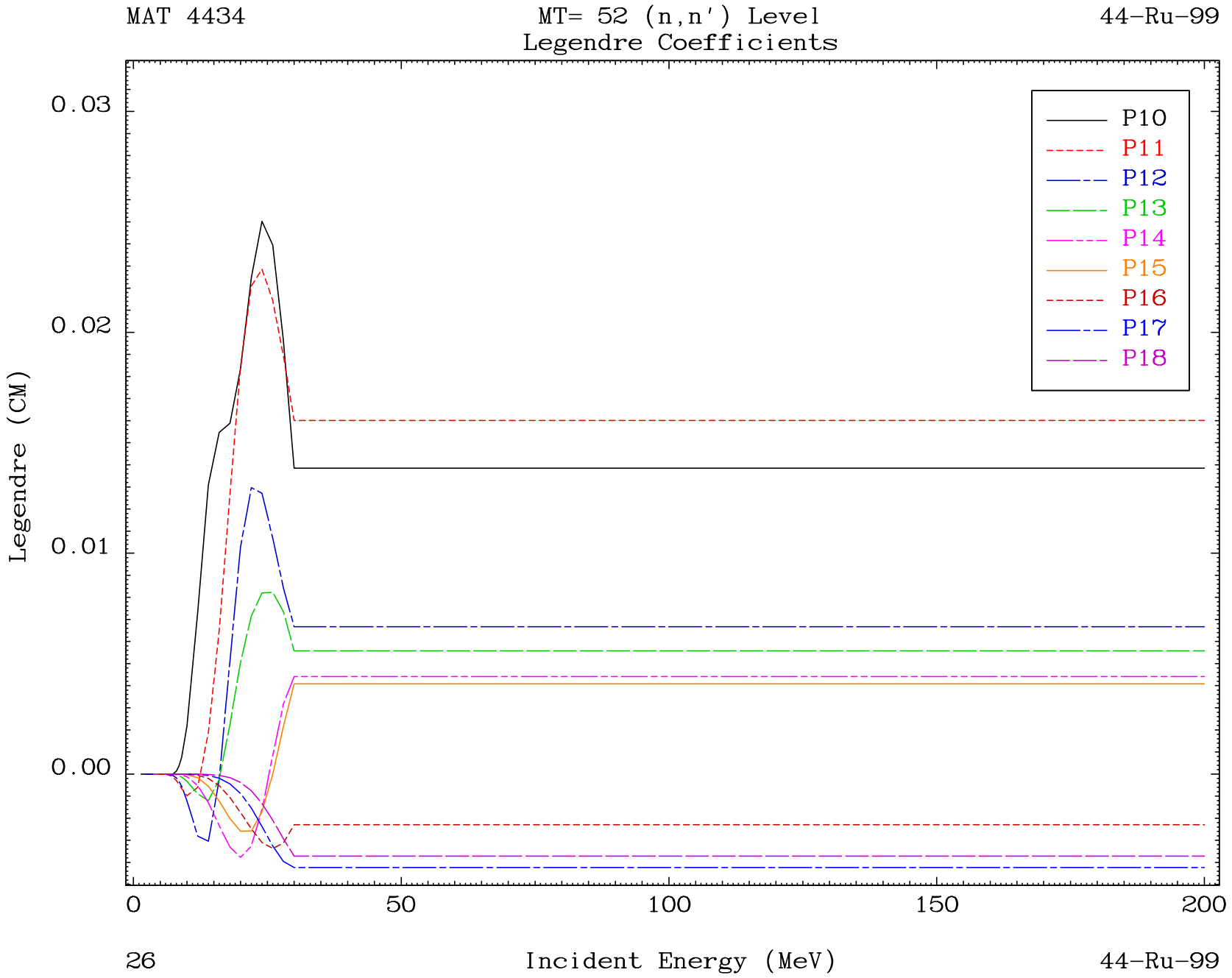

MAT 4434
MT= 51 (n,n') Level
Legendre Coefficients
44-Ru-99
0.5
0.4
0.3
0.2
0.1
0.0
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
21
Incident Energy (MeV)
44-Ru-99

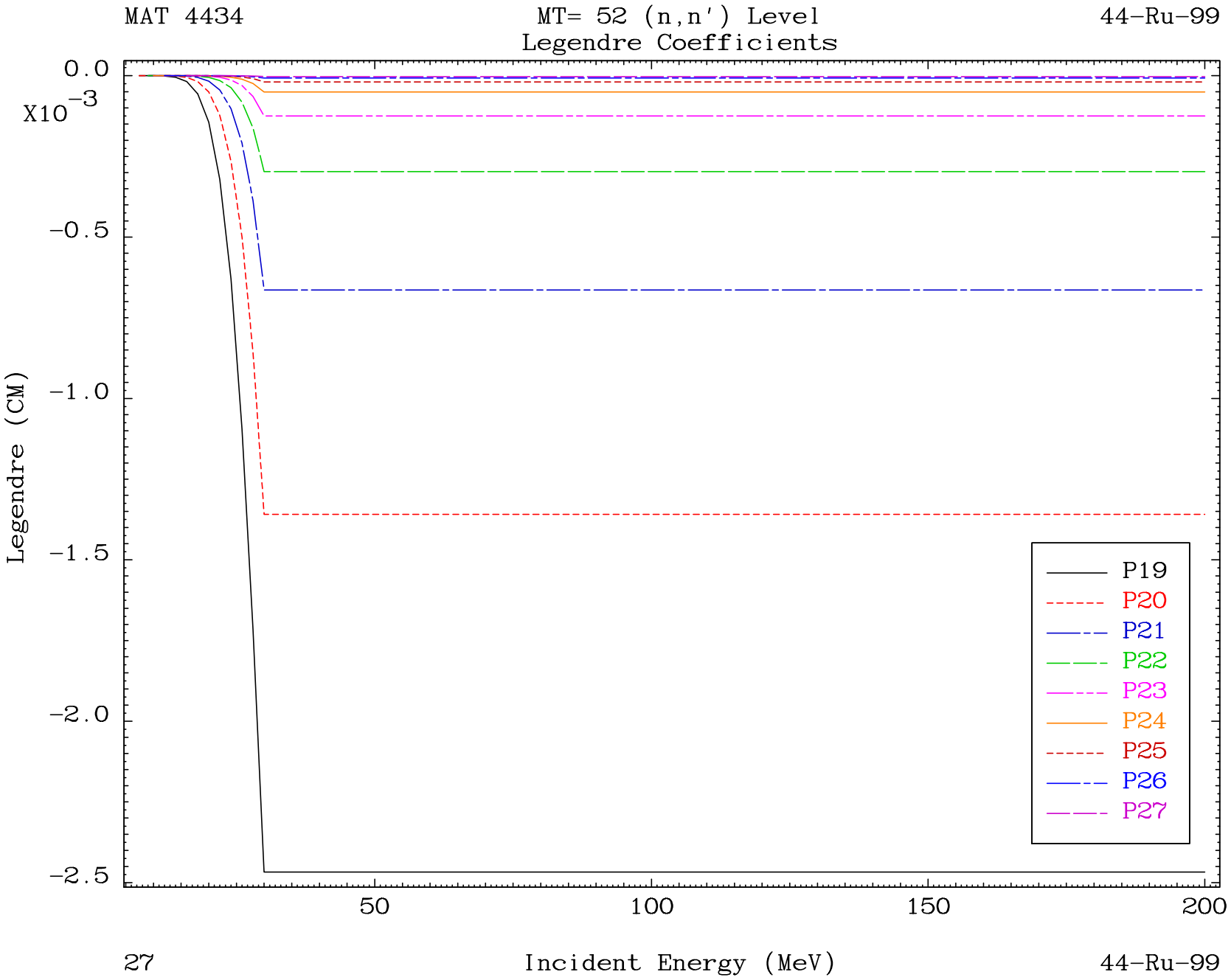

MAT 4434
MT= 51 (n,n') Level
Legendre Coefficients
44-Ru-99
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.04
0.02
0.00
-0.02
-0.04
Legendre (CM)
0
50
100
150
200
22
Incident Energy (MeV)
44-Ru-99

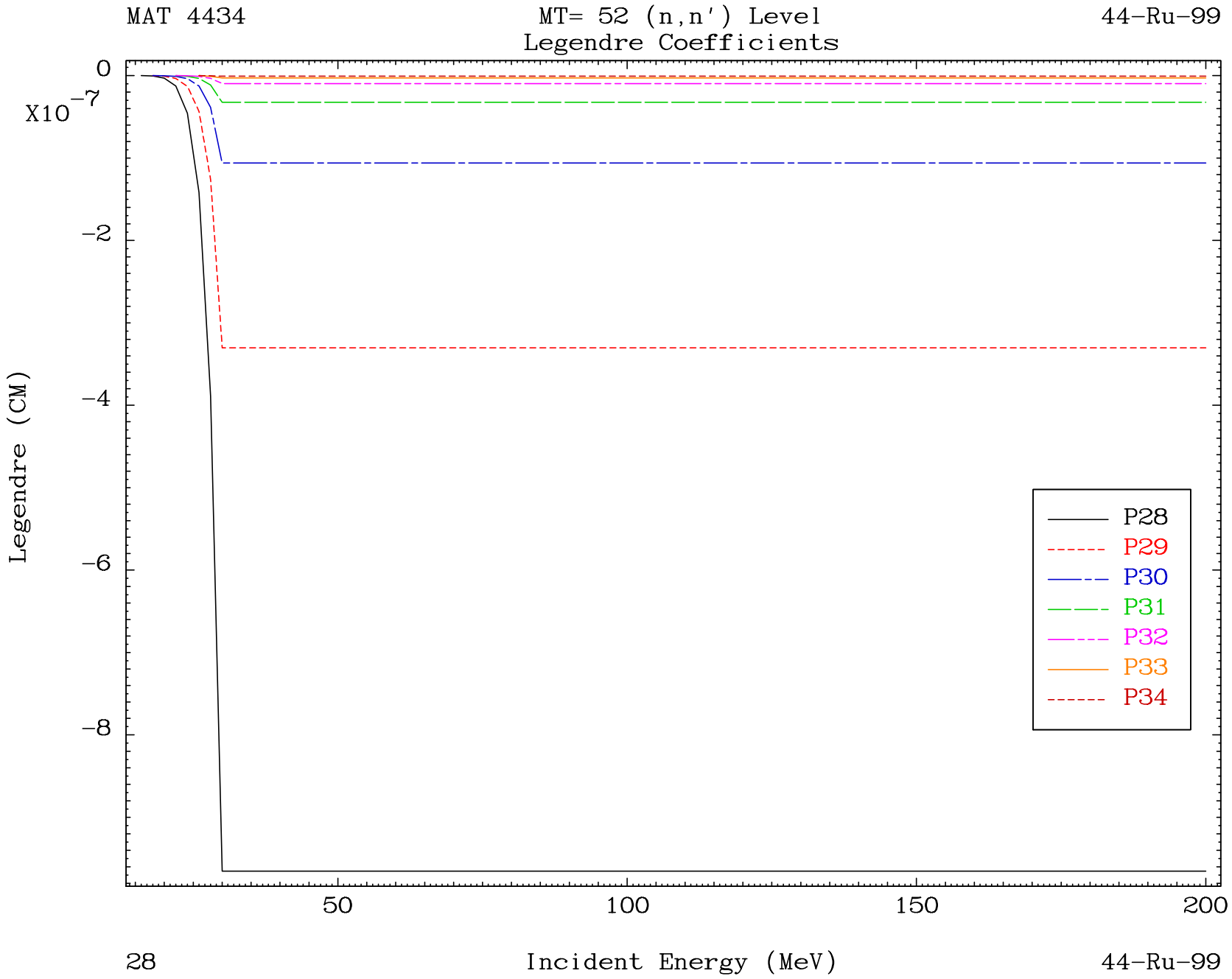

MAT 4434
MT= 51 (n,n') Level
Legendre Coefficients
44-Ru-99
P19
P20
P21
P22
P23
P24
P25
P26
P27
0.004
0.003
0.002
0.001
0.000
Legendre (CM)
50
100
150
200
23
Incident Energy (MeV)
44-Ru-99


MAT 4434
MT= 51 (n,n') Level
Legendre Coefficients
44-Ru-99
X10^-6
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
24
Incident Energy (MeV)
44-Ru-99


MAT 4434
MT= 52 (n,n') Level
Legendre Coefficients
44-Ru-99
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
25
Incident Energy (MeV)
44-Ru-99
P1
P2
P3
P4
P5
P6
P7
P8
P9


MAT 4434
MT= 52 (n,n') Level
Legendre Coefficients
44-Ru-99
0.03
0.02
0.01
0.00
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
26
Incident Energy (MeV)
44-Ru-99


MAT 4434
MT= 52 (n,n') Level
Legendre Coefficients
44-Ru-99
0.0
X10^-3
-0.5
-1.0
-1.5
-2.0
-2.5
Legendre (CM)
50
100
150
200
27
Incident Energy (MeV)
44-Ru-99
P19
P20
P21
P22
P23
P24
P25
P26
P27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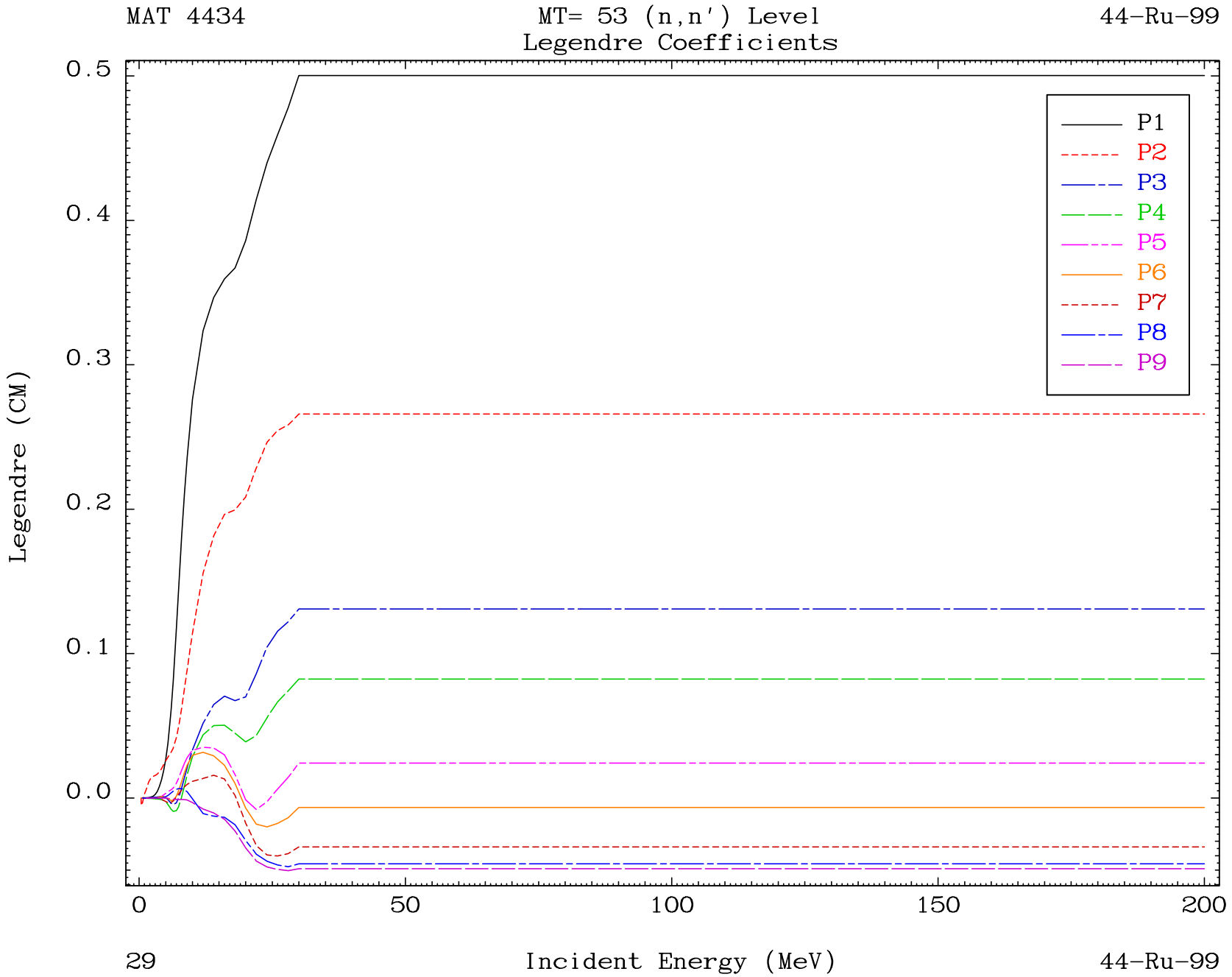
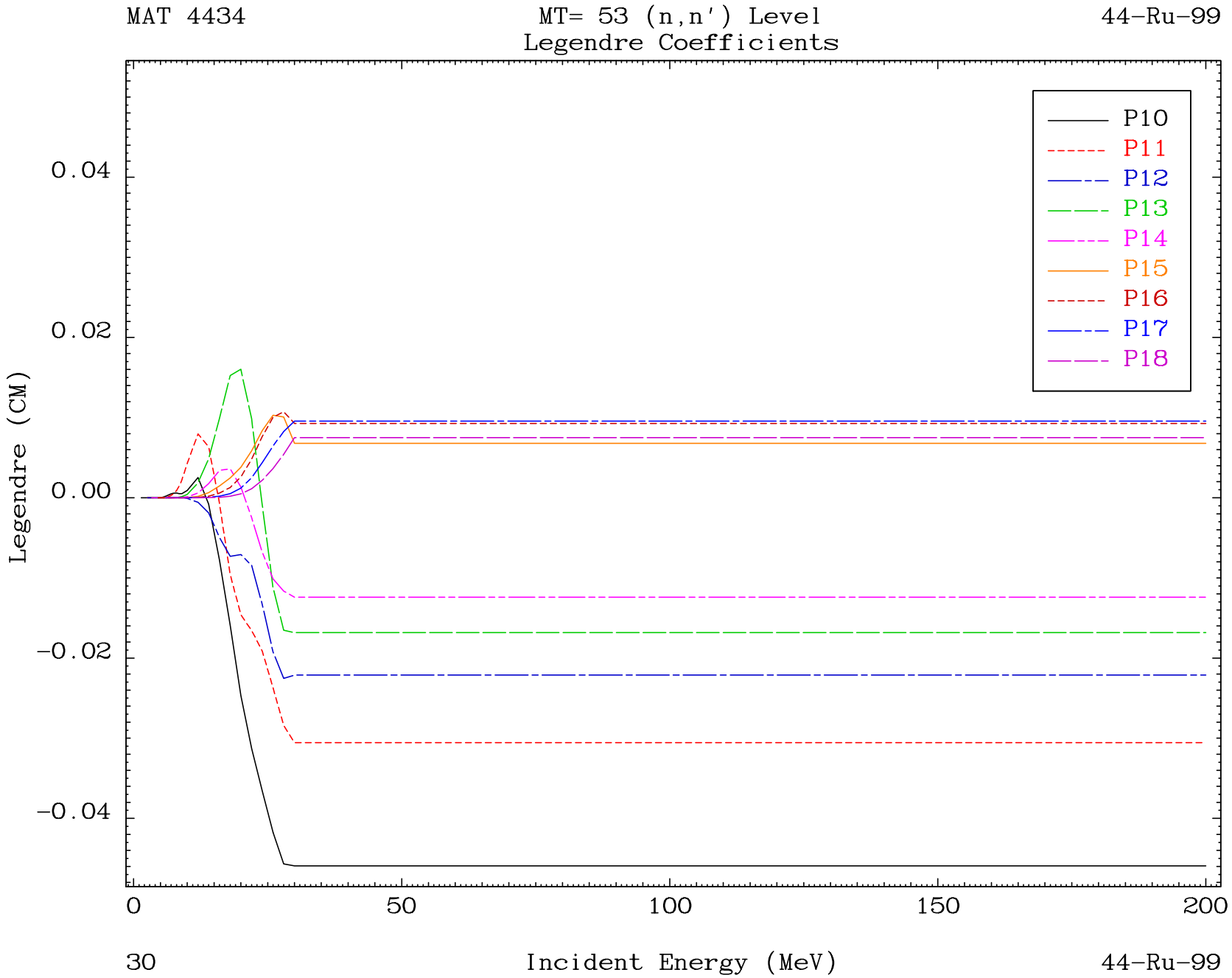
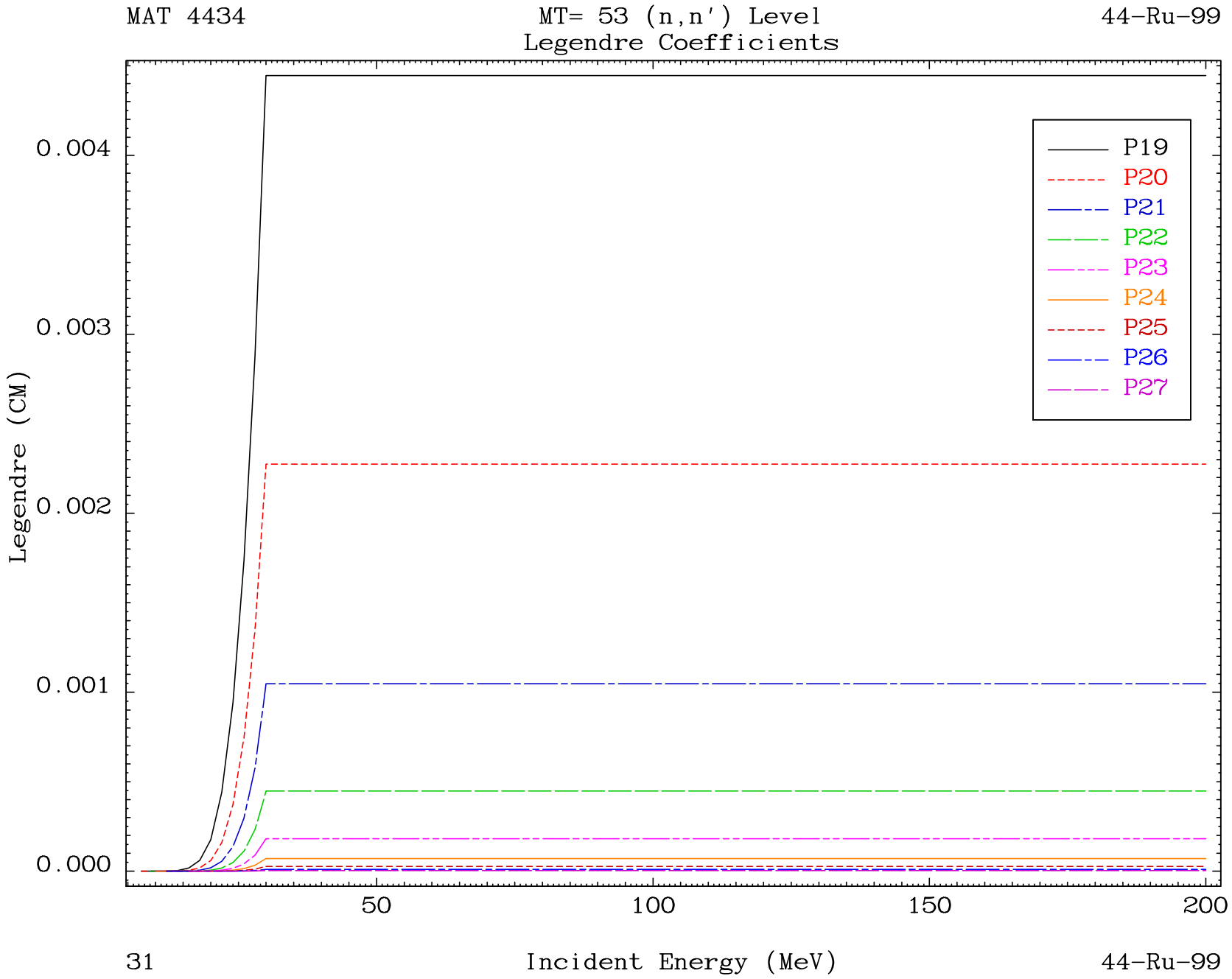
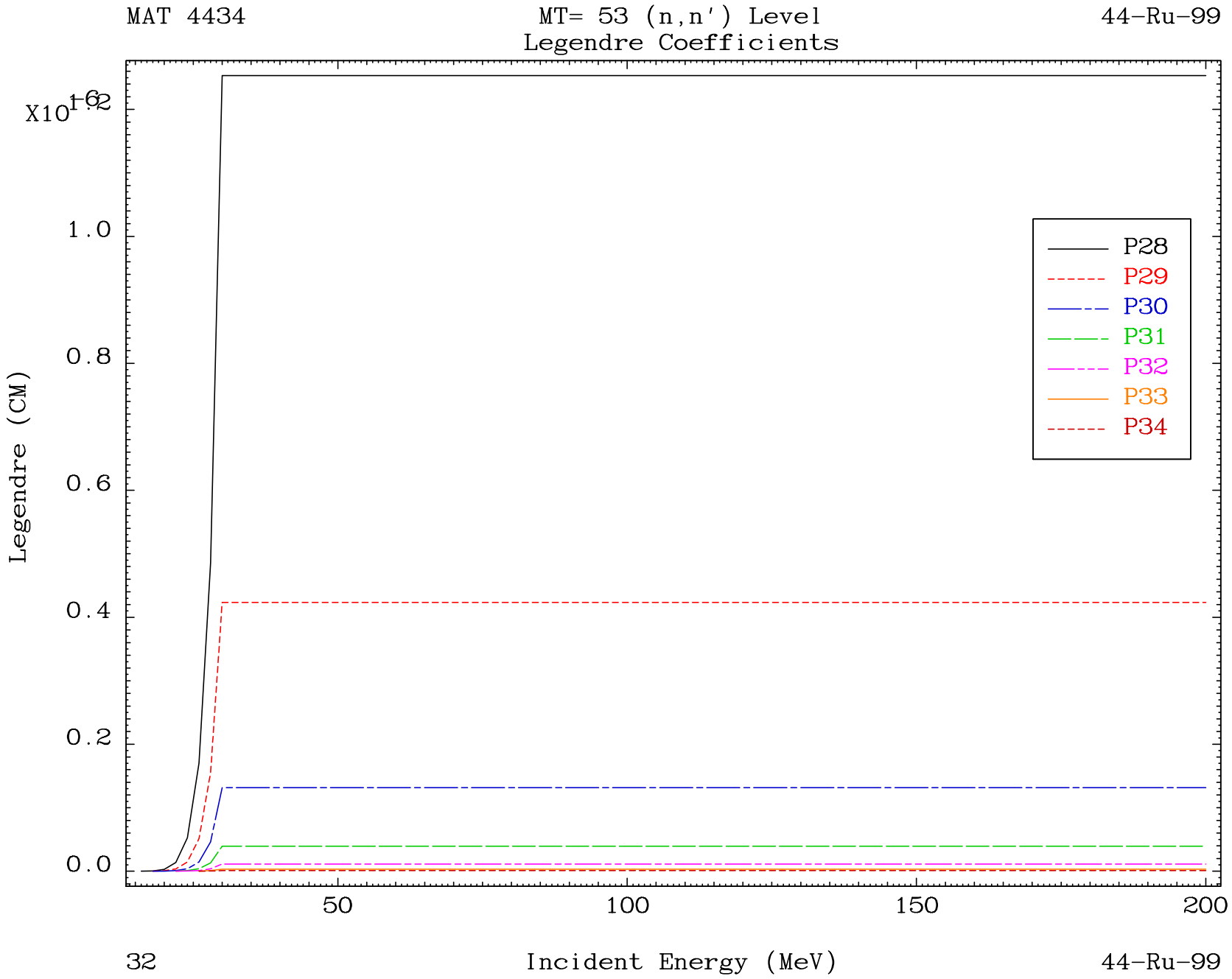
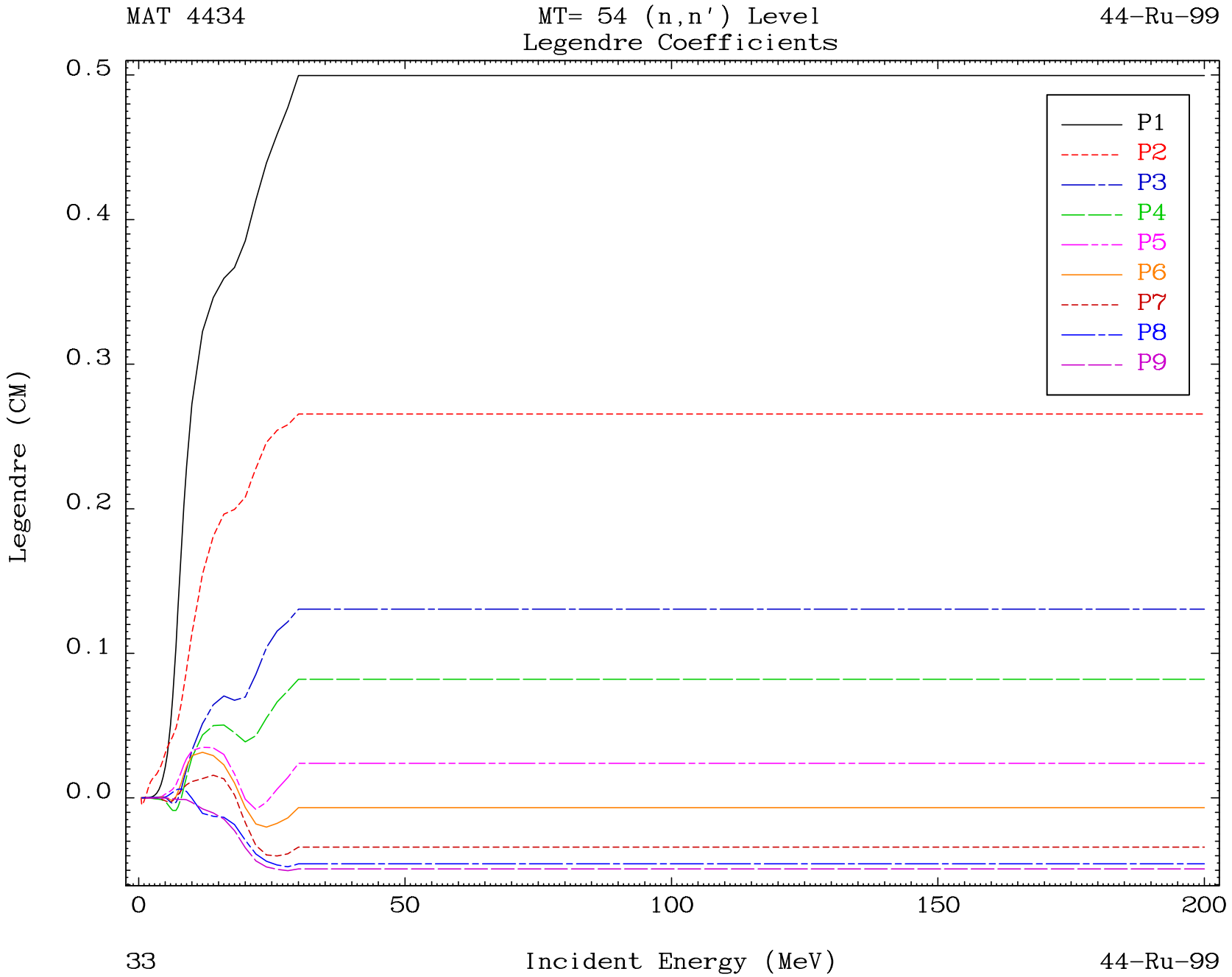
MT= 52 (n,n') Level
Legendre Coefficients
44-Ru-99
X10^-7
0
-2
-4
-6
-8
Legendre (CM)
50
100
150
200
28
Incident Energy (MeV)
44-Ru-99
P28
P29
P30
P31
P32
P33
P34

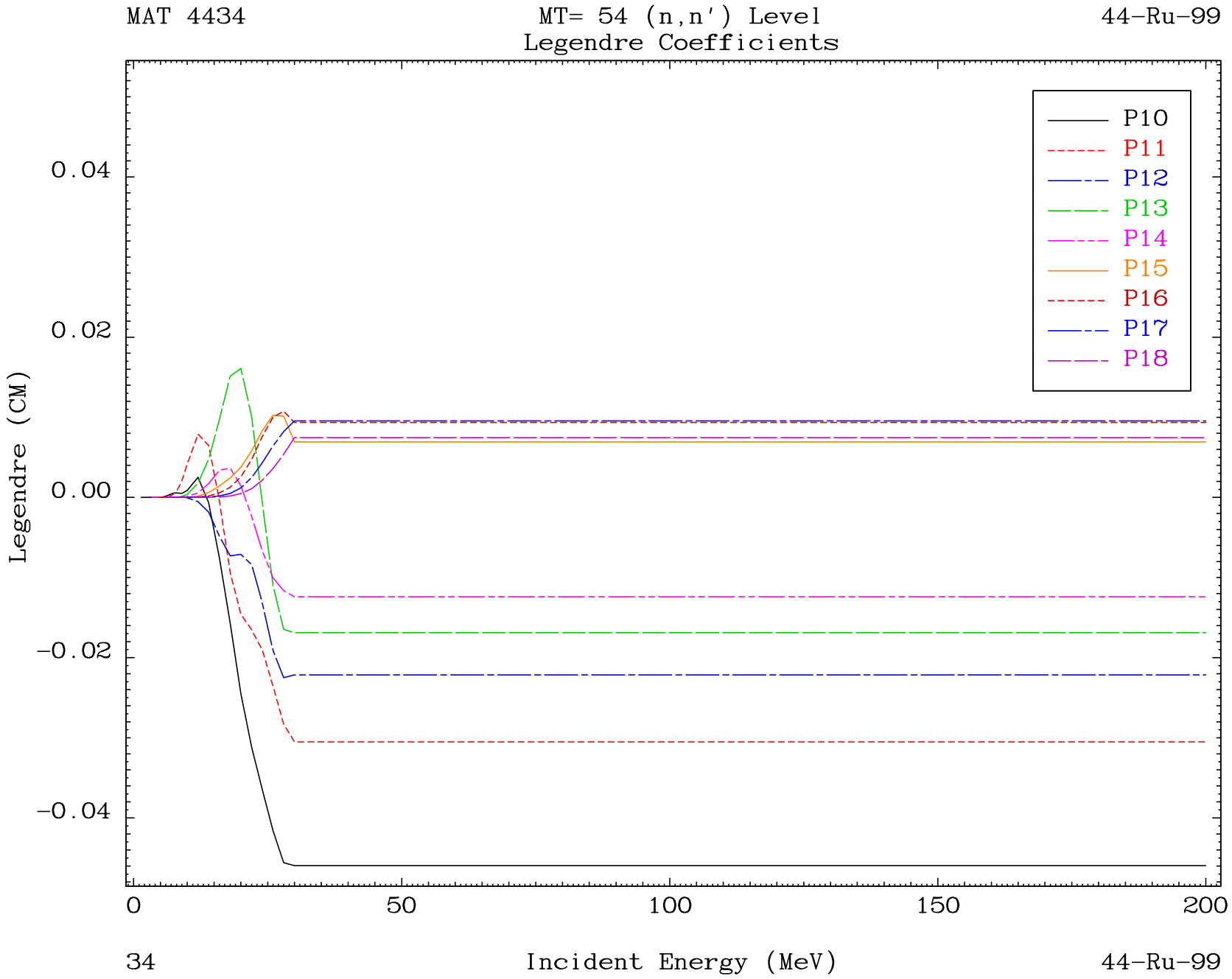

MAT 4434
MT= 53 (n,n') Level
Legendre Coefficients
44-Ru-99
0.5
0.4
0.3
0.2
0.1
0.0
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
29
Incident Energy (MeV)
44-Ru-99

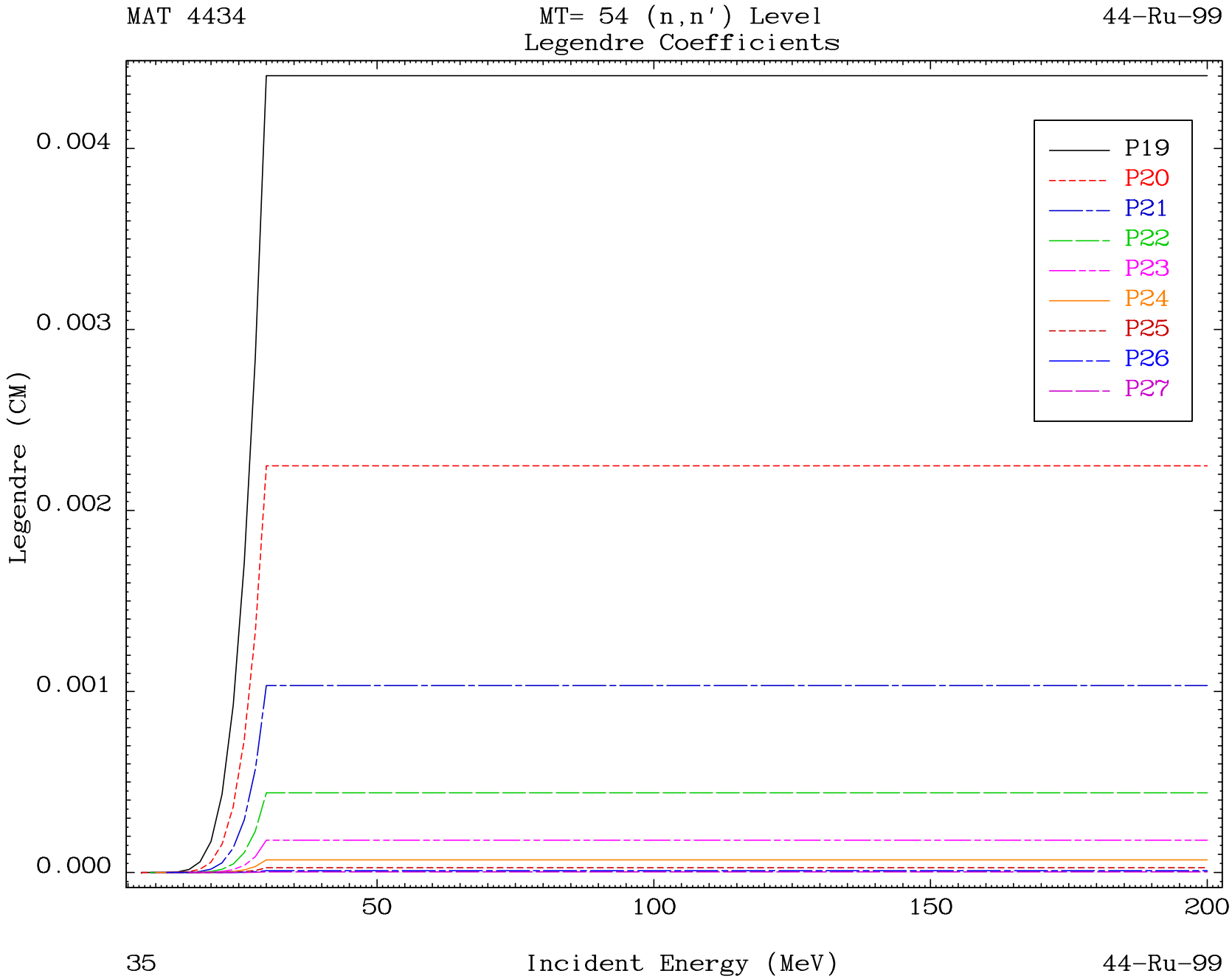

MAT 4434
MT= 53 (n,n') Level
Legendre Coefficients
44-Ru-99
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.04
0.02
0.00
-0.02
-0.04
Legendre (CM)
0
50
100
150
200
30
Incident Energy (MeV)
44-Ru-99

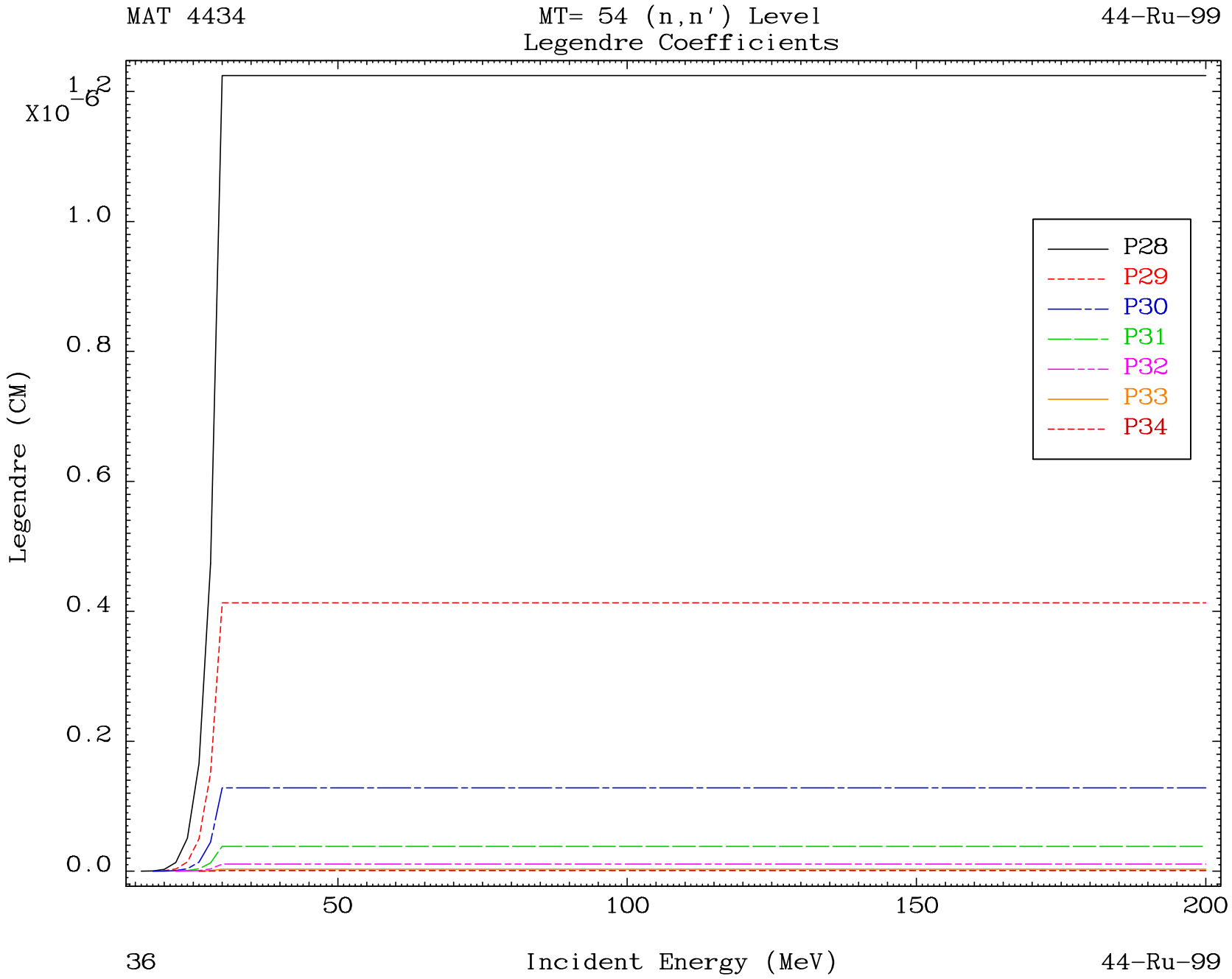

MAT 4434
MT= 53 (n,n') Level
Legendre Coefficients
44-Ru-99
0.004
0.003
0.002
0.001
0.000
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
31
Incident Energy (MeV)
44-Ru-99

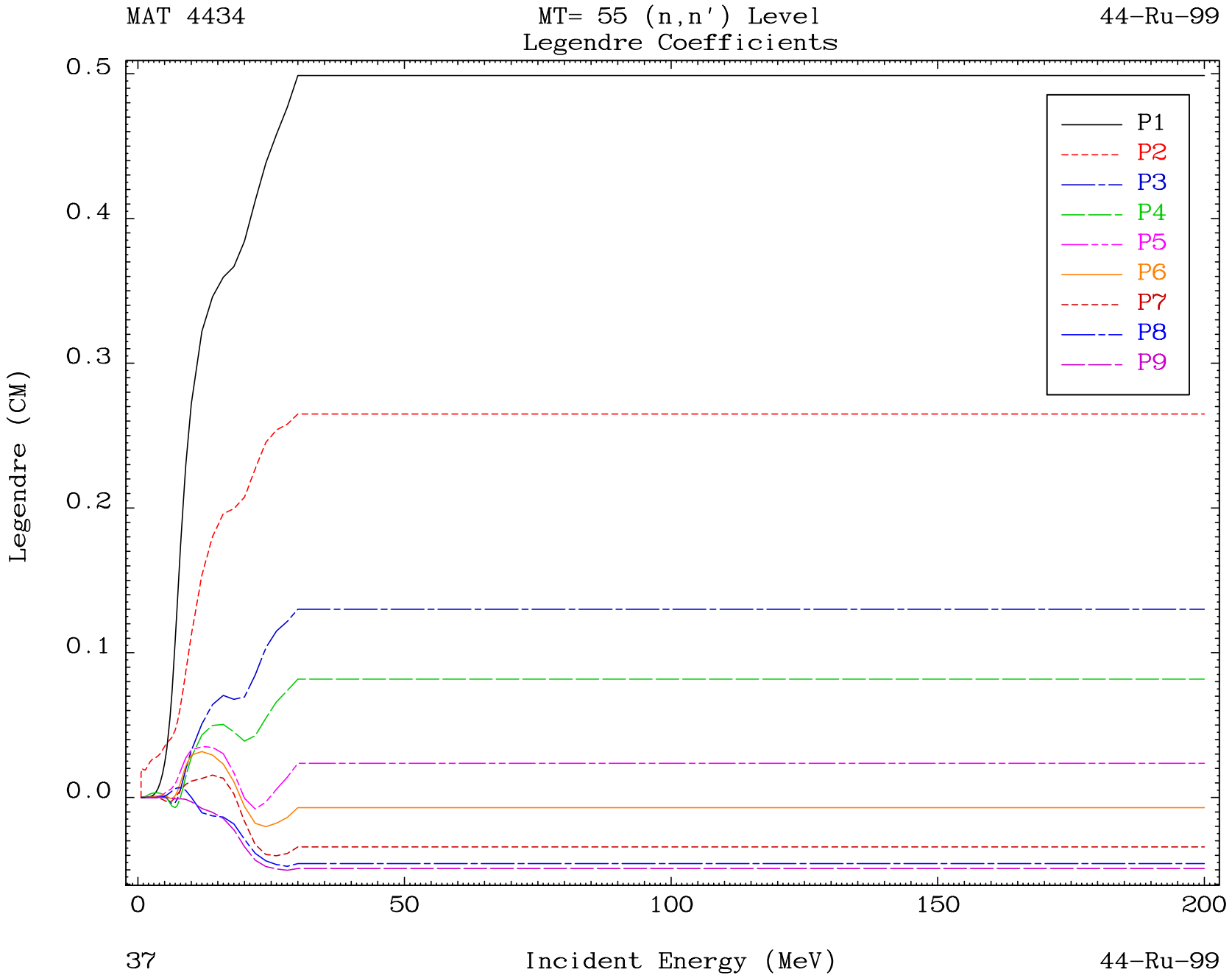

MAT 4434
MT= 53 (n,n') Level
Legendre Coefficients
44-Ru-99
X10-62
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
32
Incident Energy (MeV)
44-Ru-99

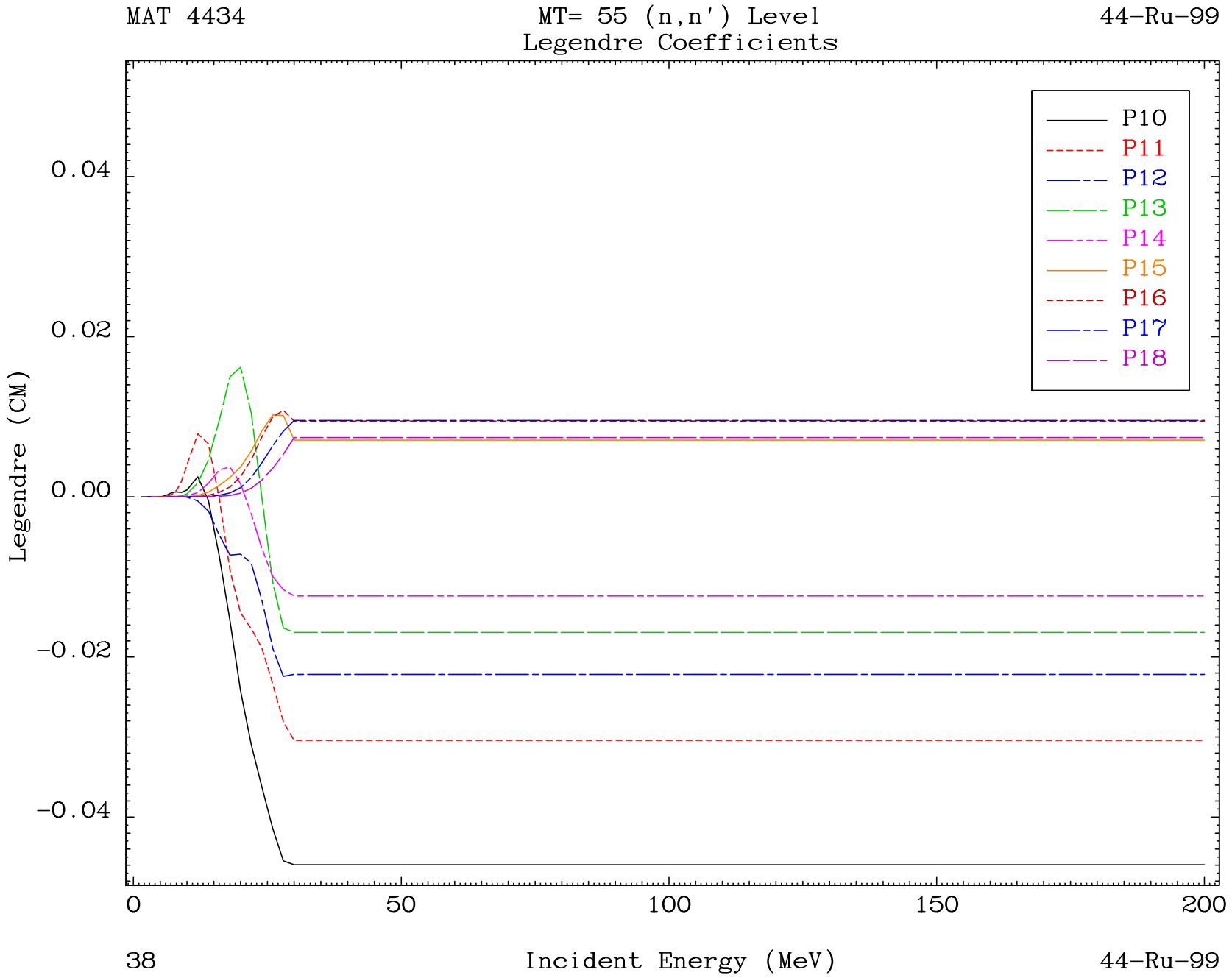

MAT 4434
MT= 54 (n,n') Level
Legendre Coefficients
44-Ru-99
0.5
0.4
0.3
0.2
0.1
0.0
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
33
Incident Energy (MeV)
44-Ru-99

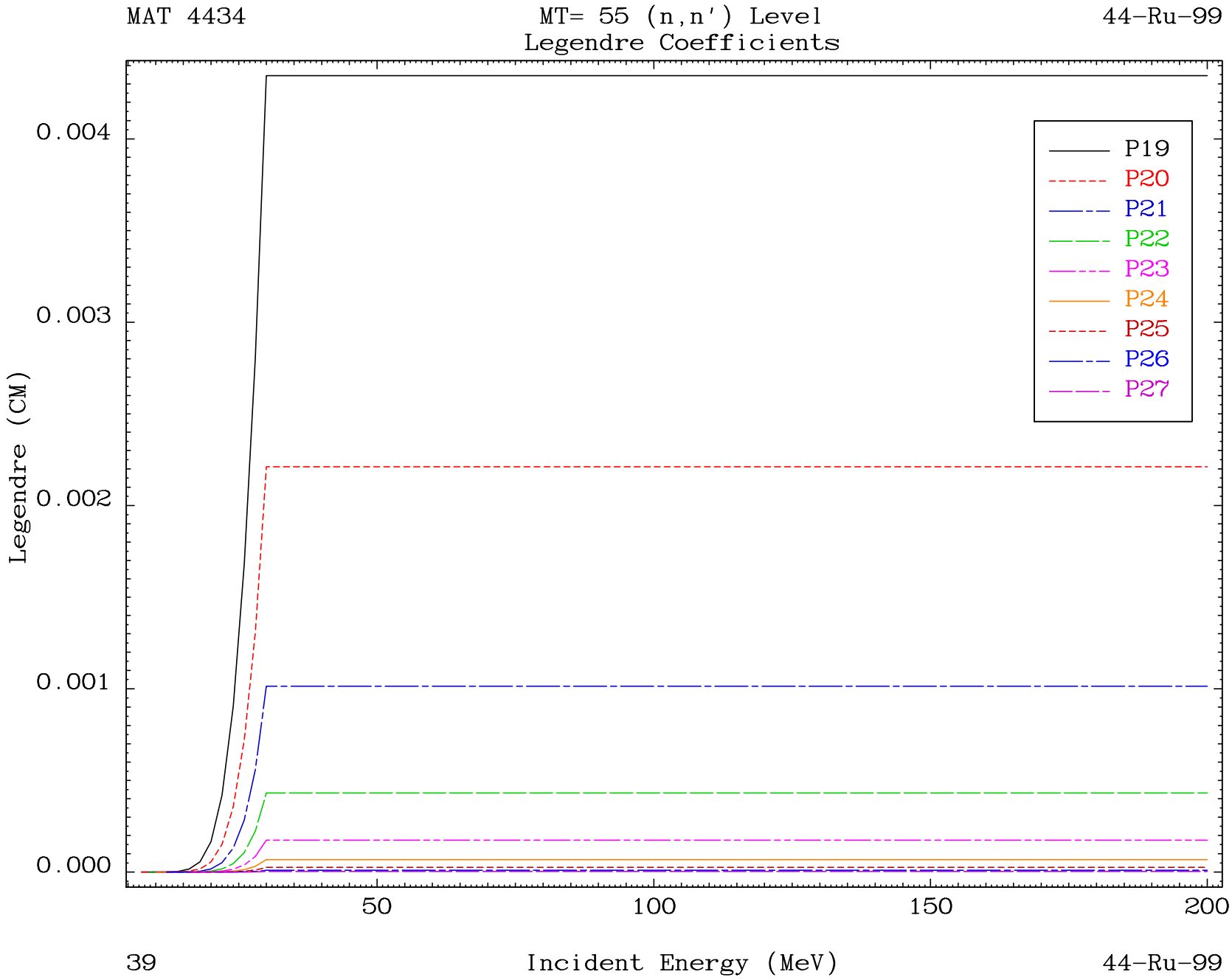

MAT 4434
MT= 54 (n,n') Level
Legendre Coefficients
44-Ru-99
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.04
0.02
0.00
-0.02
-0.04
Legendre (CM)
0
50
100
150
200
34
Incident Energy (MeV)
44-Ru-99

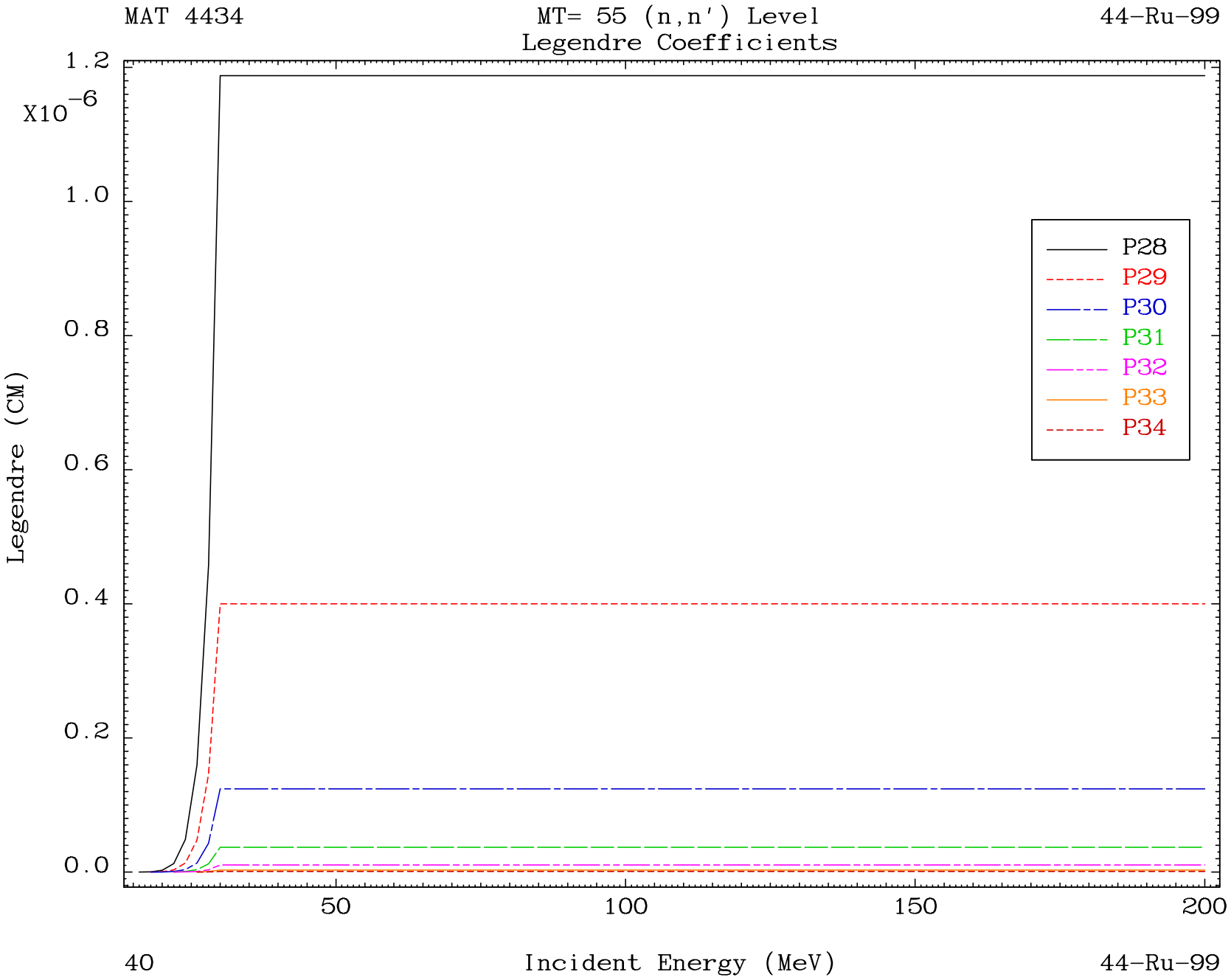

MAT 4434
MT= 54 (n,n') Level
Legendre Coefficients
44-Ru-99
0.004
0.003
0.002
0.001
0.000
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
35
Incident Energy (MeV)
44-Ru-99

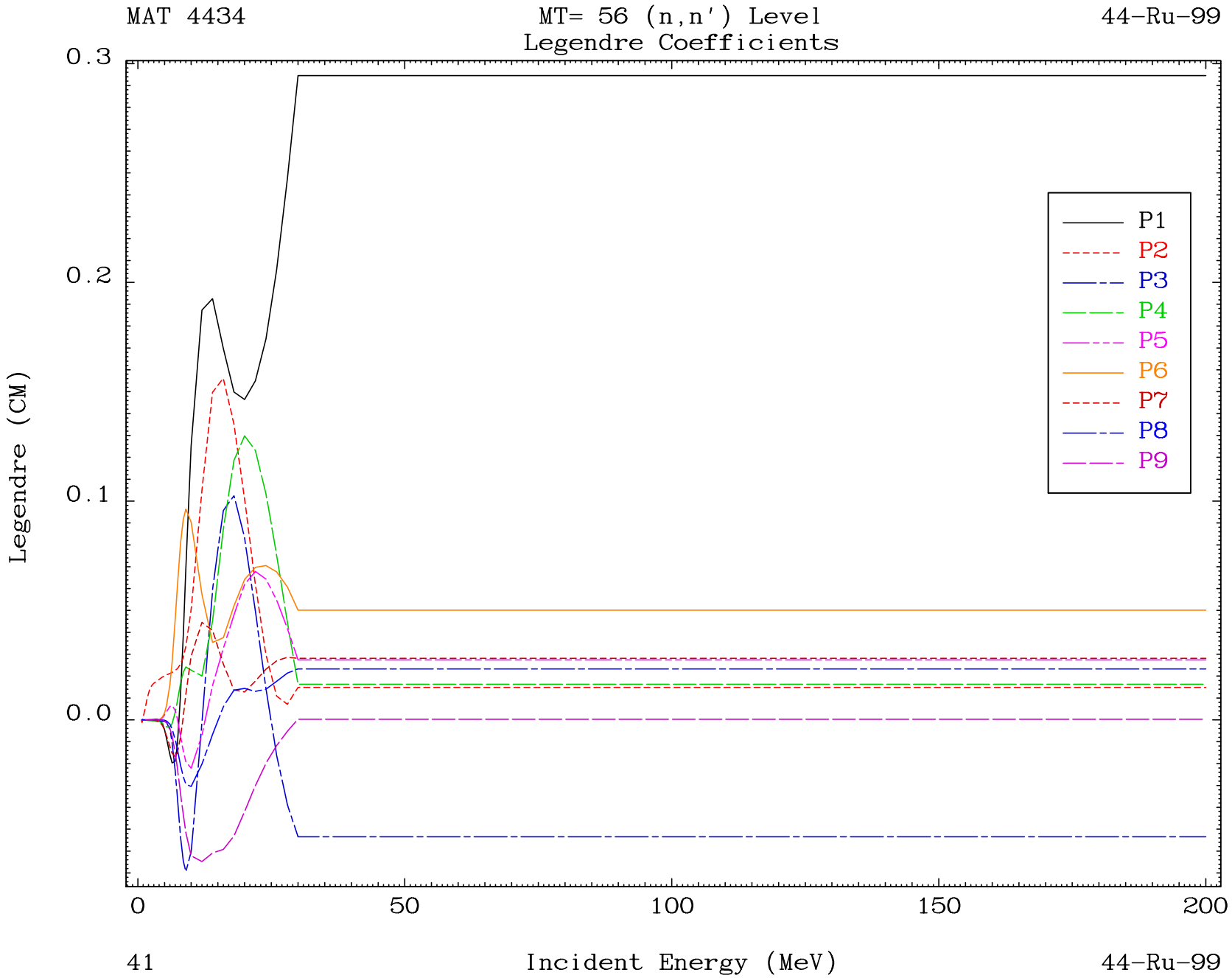

MAT 4434
MT= 54 (n,n') Level
Legendre Coefficients
44-Ru-99
X10-6
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
36
Incident Energy (MeV)
44-Ru-99

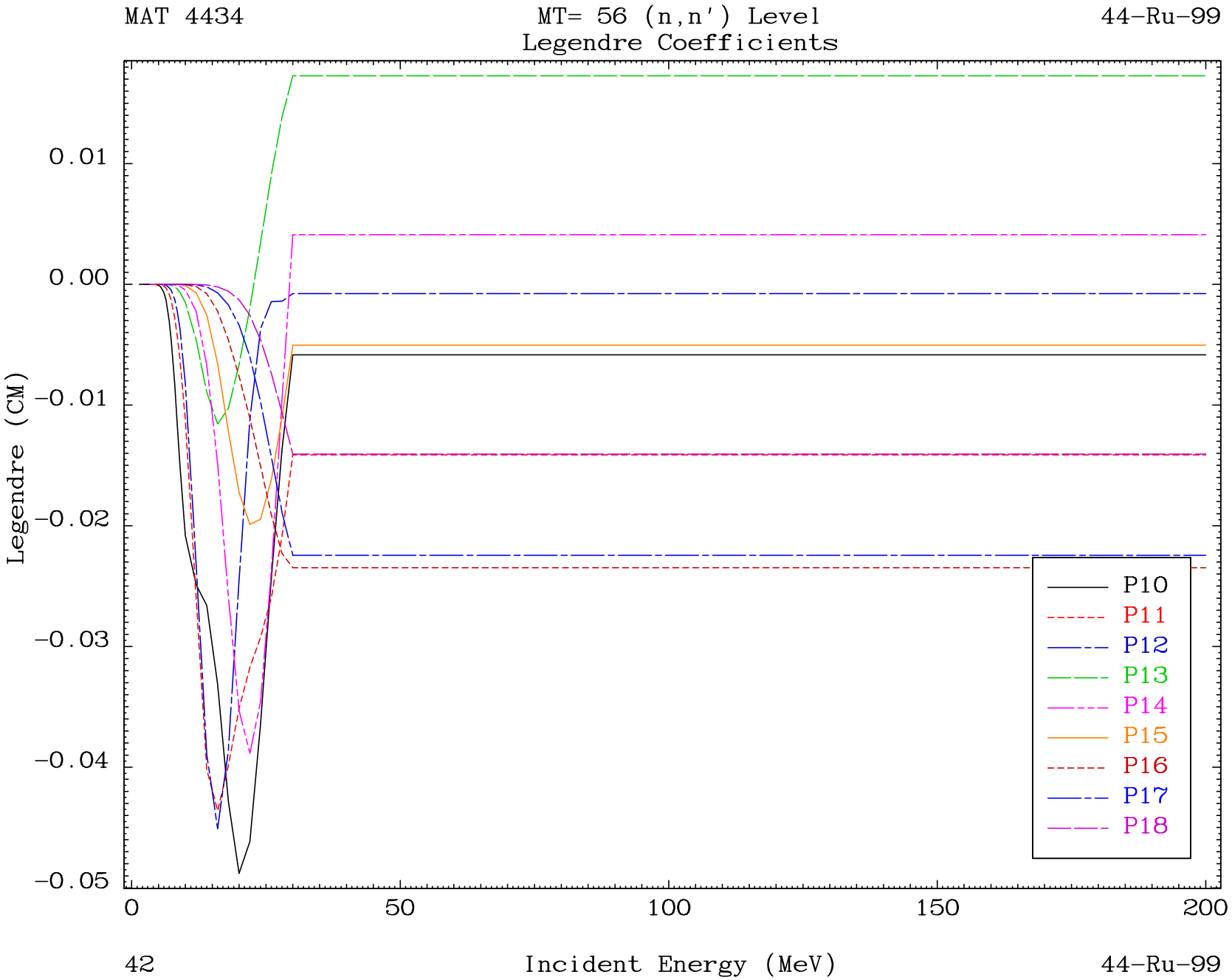

MAT 4434
MT= 55 (n,n') Level
Legendre Coefficients
44-Ru-99
0.5
0.4
0.3
0.2
0.1
0.0
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
37
Incident Energy (MeV)
44-Ru-99

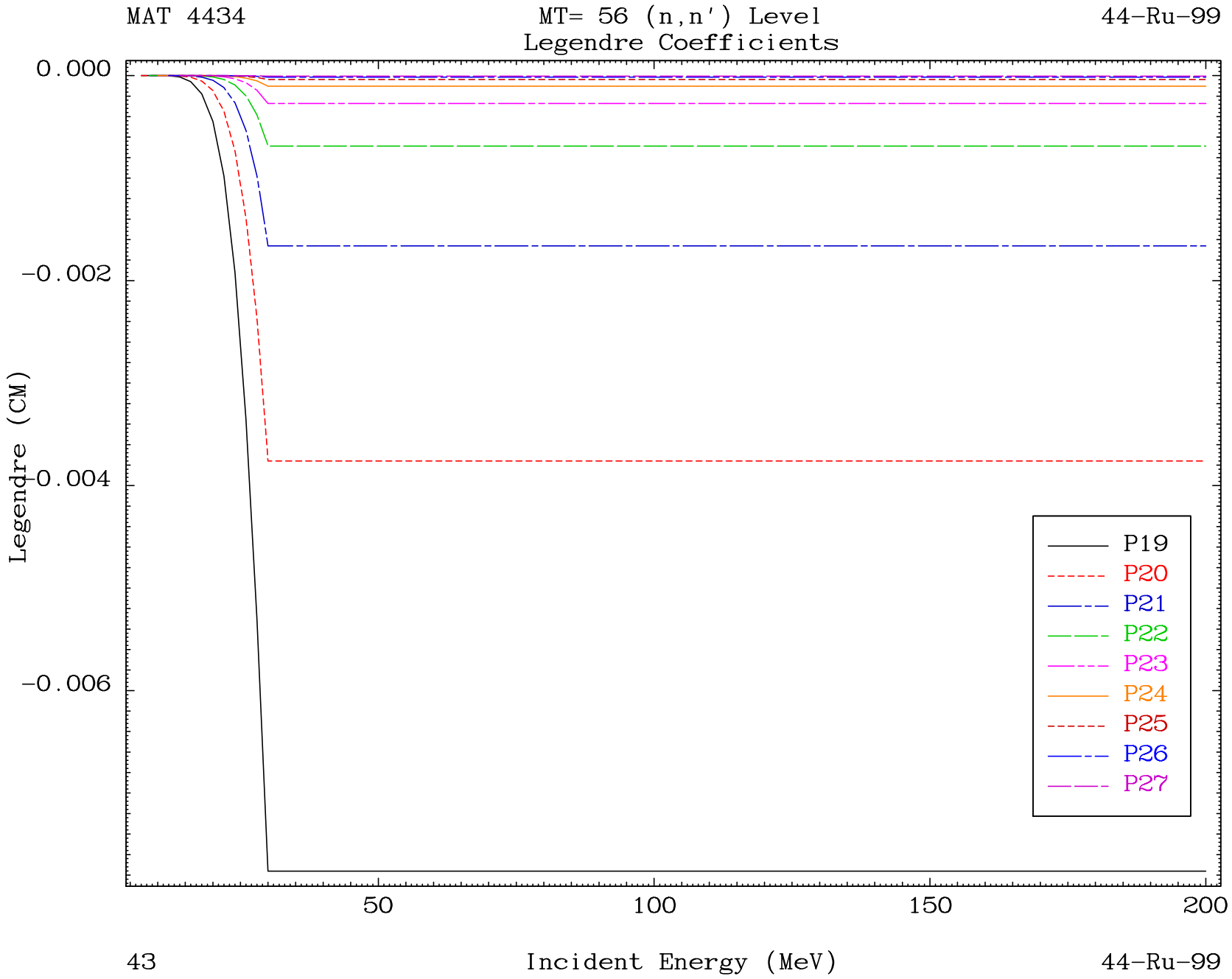

MAT 4434
MT= 55 (n,n') Level
Legendre Coefficients
44-Ru-99
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.04
0.02
0.00
-0.02
-0.04
Legendre (CM)
0
50
100
150
200
38
Incident Energy (MeV)
44-Ru-99

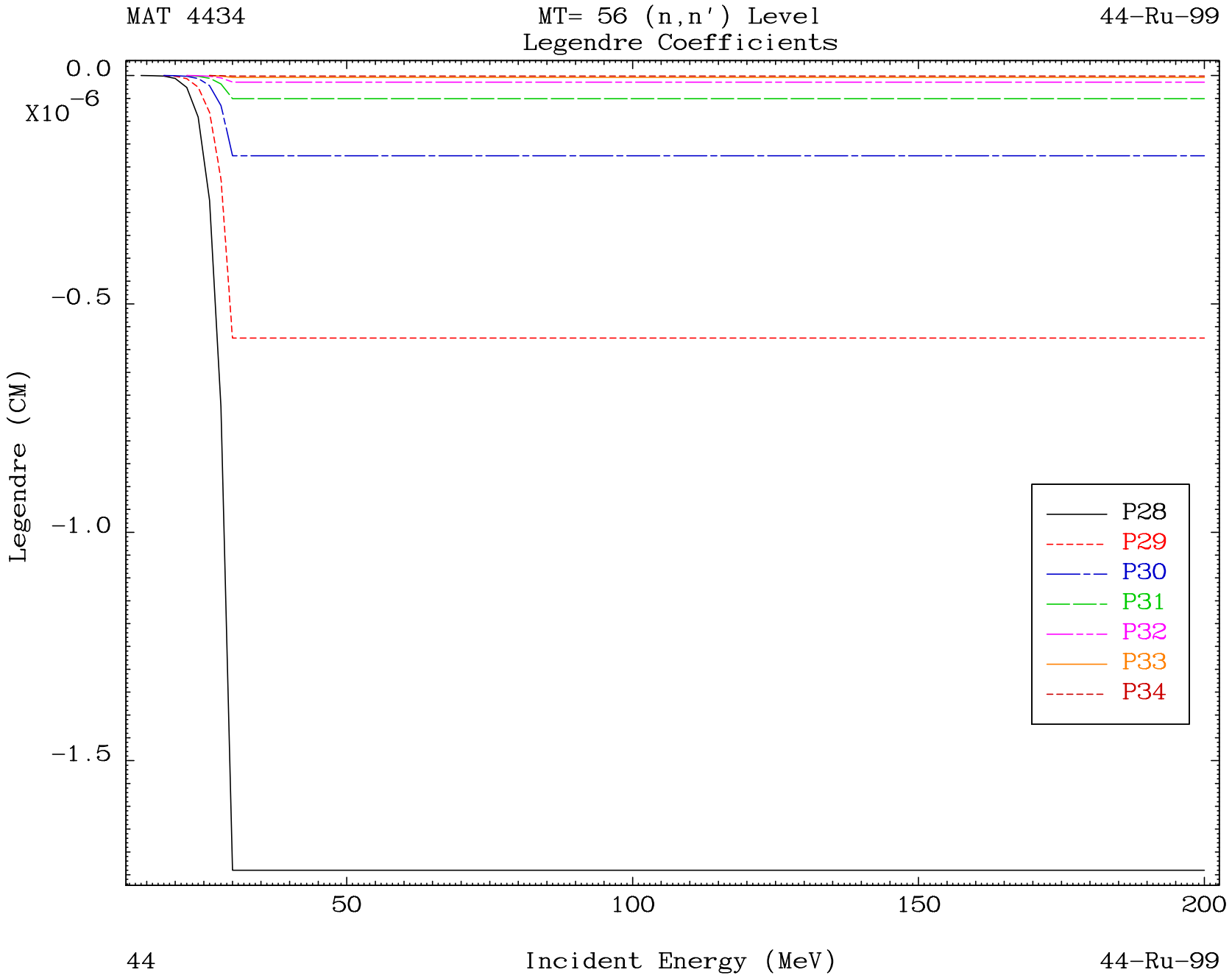

MAT 4434
MT= 55 (n,n') Level
Legendre Coefficients
44-Ru-99
0.004
0.003
0.002
0.001
0.000
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
39
Incident Energy (MeV)
44-Ru-99

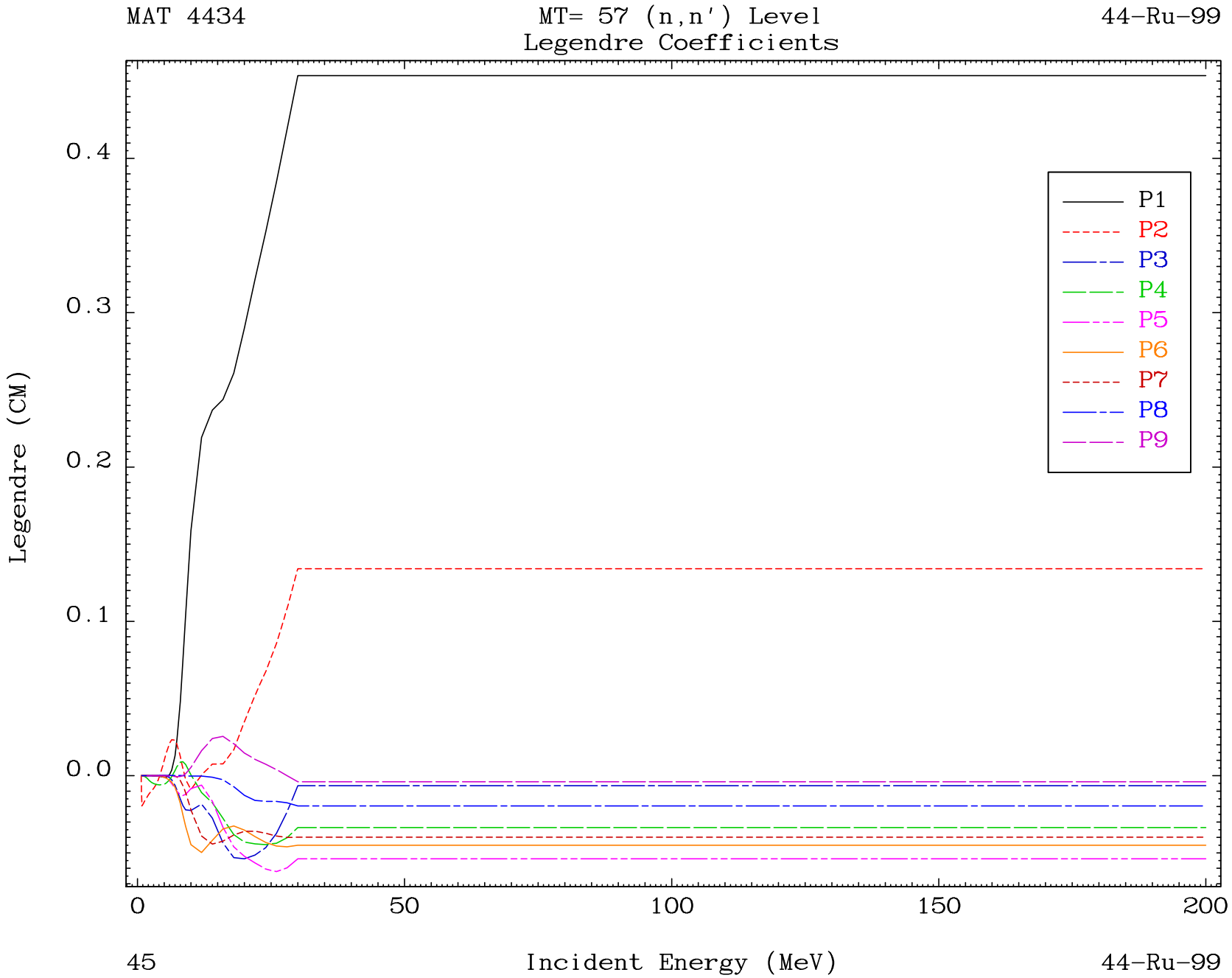

MAT 4434
MT= 55 (n,n') Level
Legendre Coefficients
44-Ru-99
X10 −6
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
40
50
100
150
200
Incident Energy (MeV)
44-Ru-99

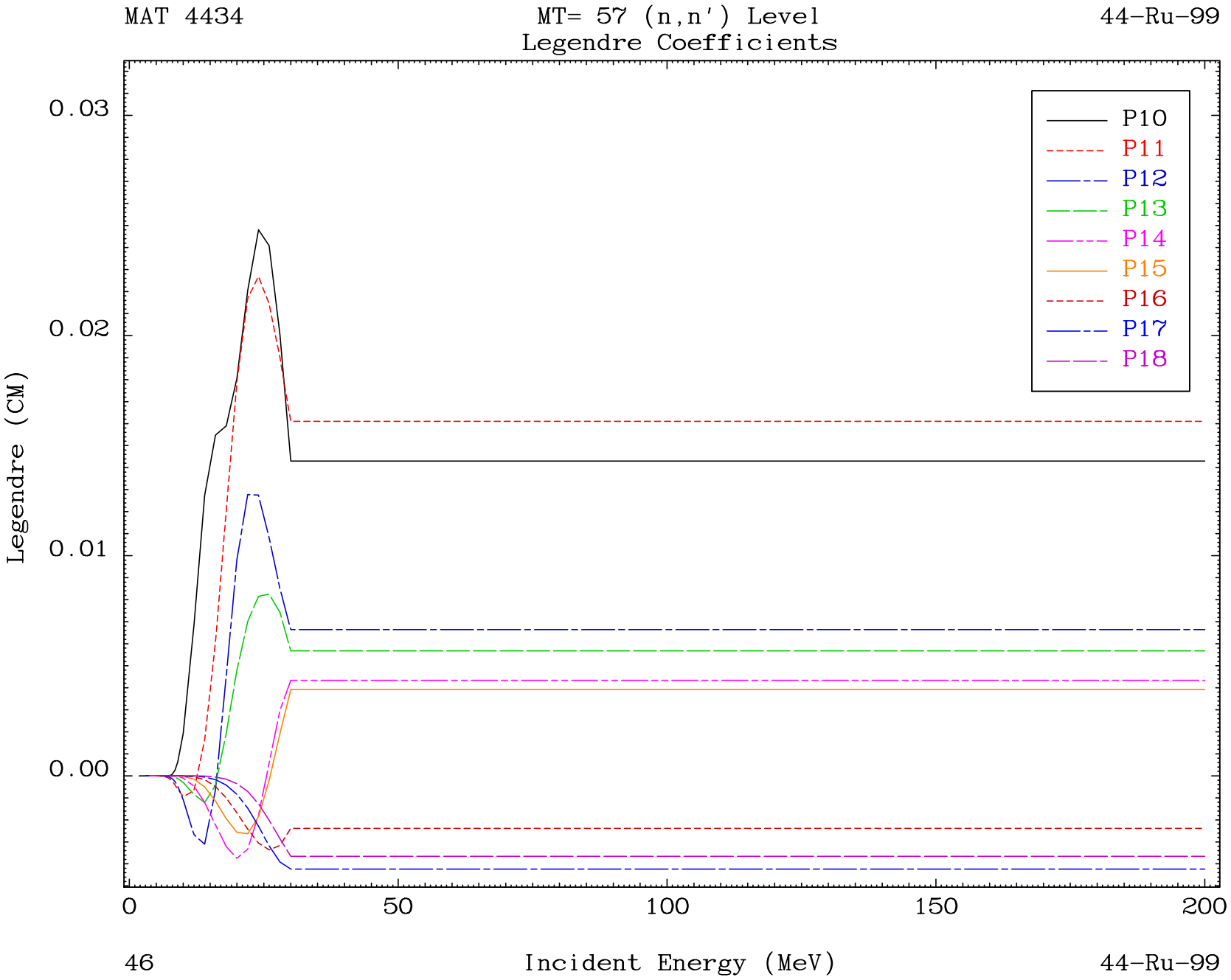

MAT 4434
MT= 56 (n,n') Level
Legendre Coefficients
44-Ru-99
0.3
0.2
0.1
0.0
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
41
Incident Energy (MeV)
44-Ru-99

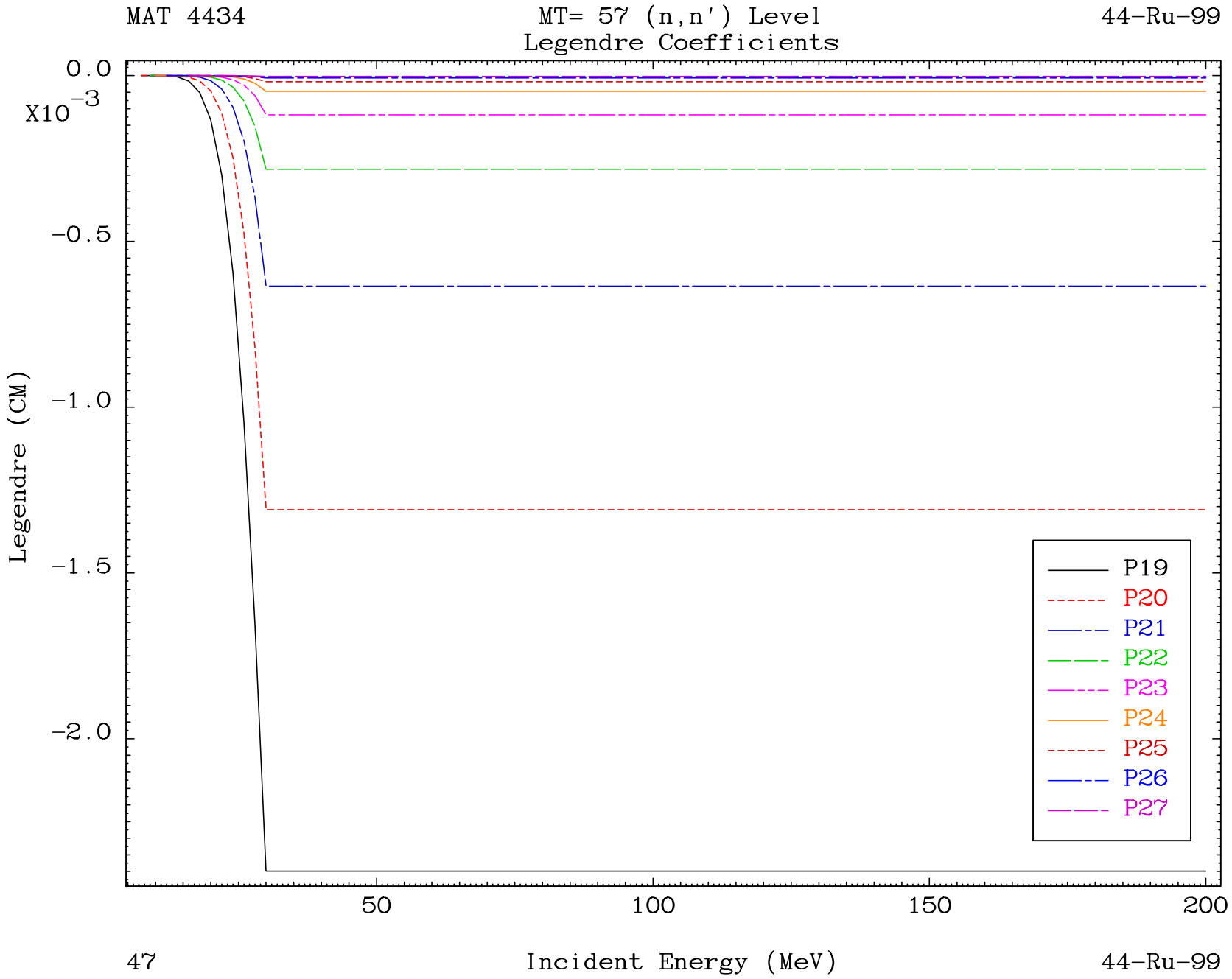

MAT 4434
MT= 56 (n,n') Level
Legendre Coefficients
44-Ru-99
0.01
0.00
-0.01
-0.02
-0.03
-0.04
-0.05
Legendre (CM)
0
50
100
150
200
42
Incident Energy (MeV)
44-Ru-99
P10
P11
P12
P13
P14
P15
P16
P17
P18

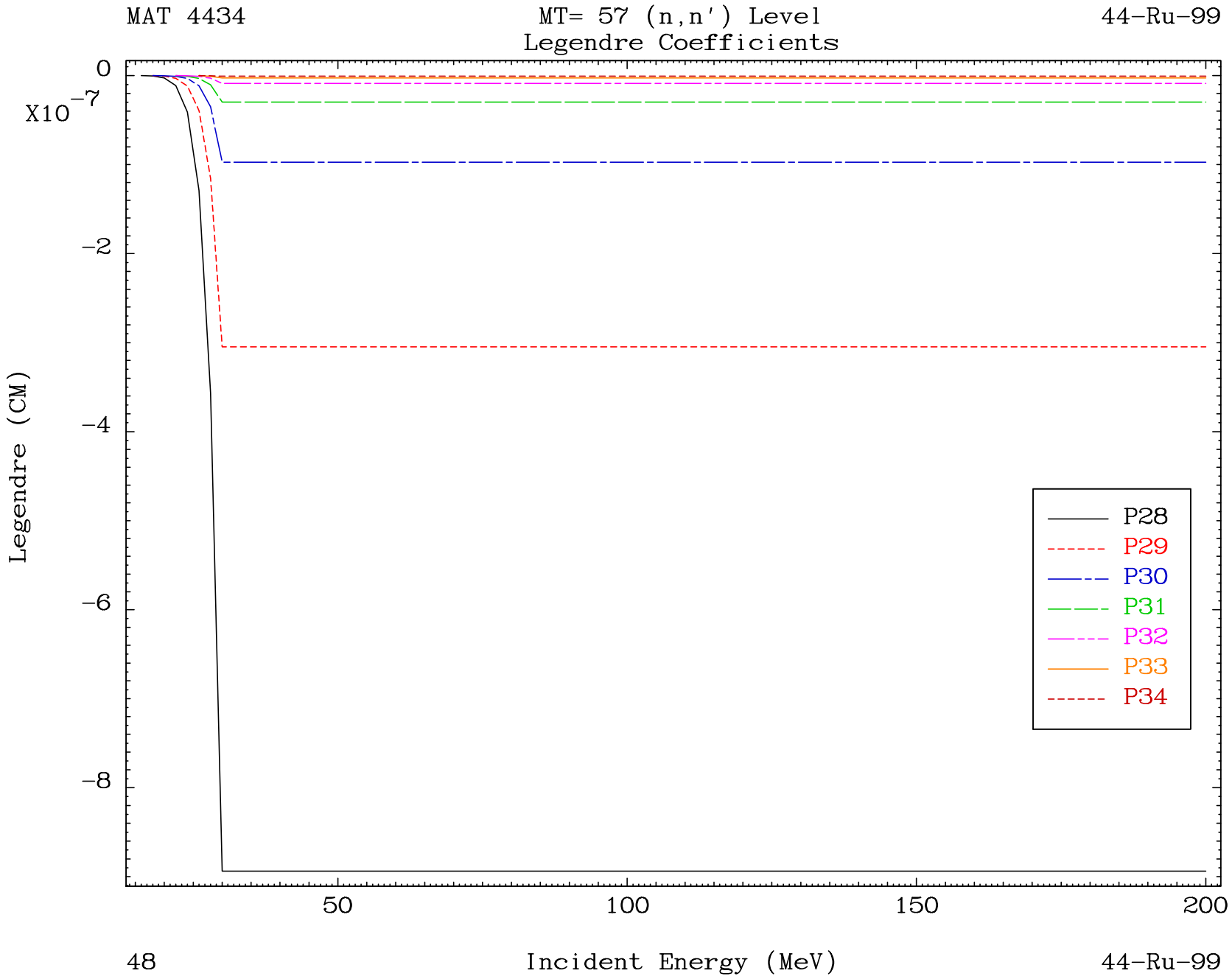

MAT 4434
MT= 56 (n,n') Level
Legendre Coefficients
44-Ru-99
0.000
-0.002
-0.004
-0.006
Legendre (CM)
50
100
150
200
43
Incident Energy (MeV)
44-Ru-99
P19
P20
P21
P22
P23
P24
P25
P26
P27

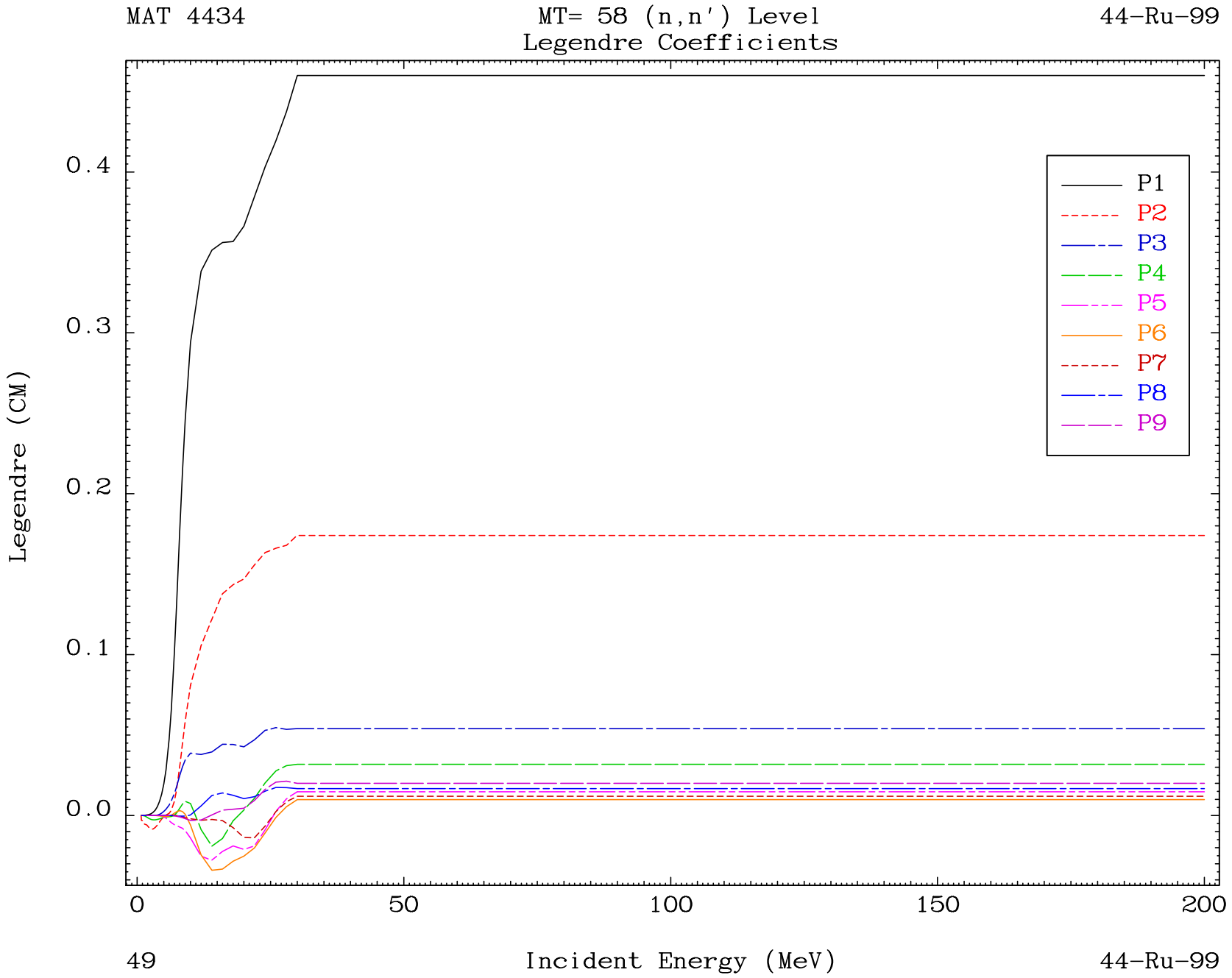

MAT 4434
MT= 56 (n,n') Level
Legendre Coefficients
44-Ru-99
0.0
X10^-6
-0.5
-1.0
-1.5
Legendre (CM)
50
100
150
200
44
Incident Energy (MeV)
44-Ru-99
P28
P29
P30
P31
P32
P33
P34

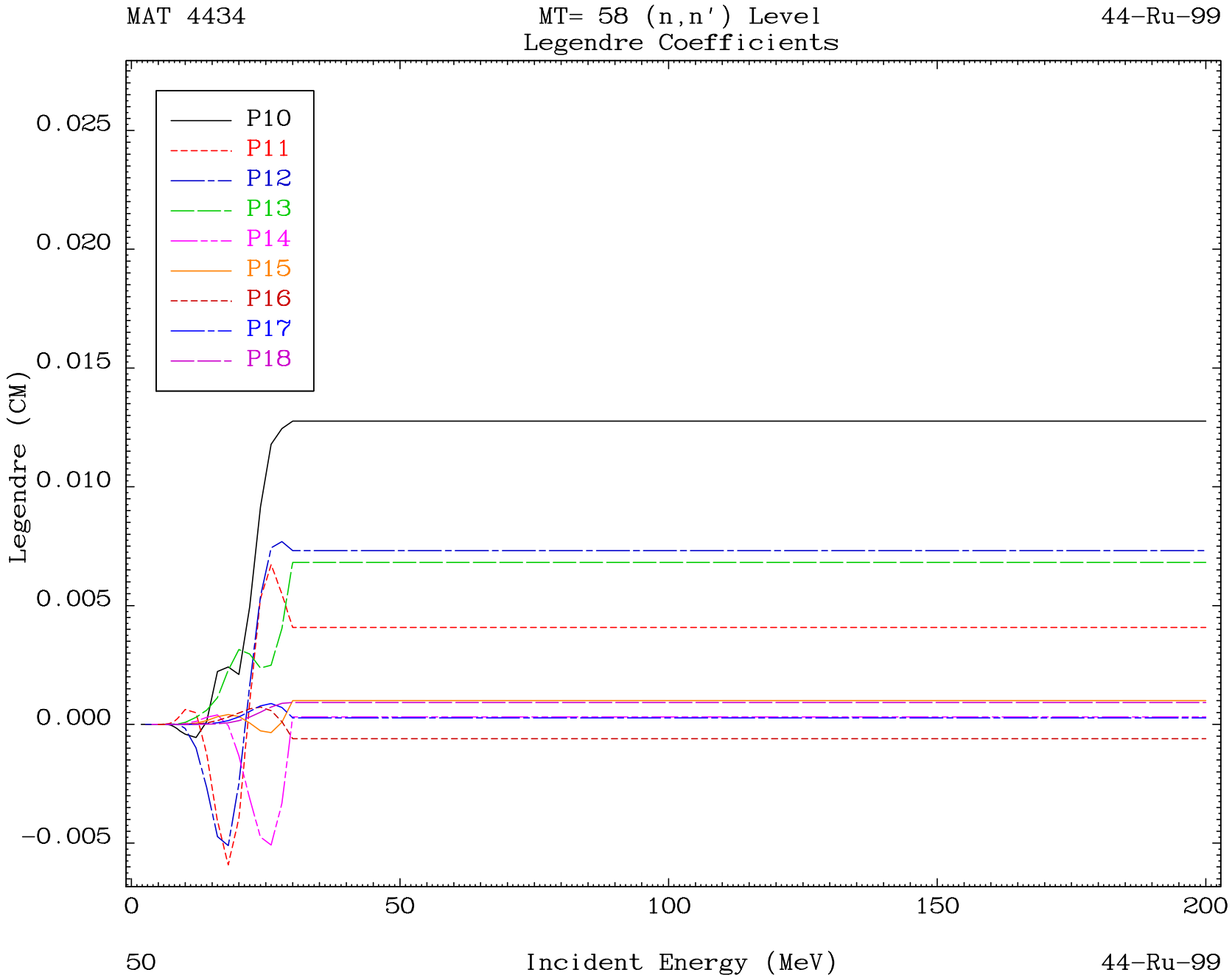

MAT 4434
MT= 57 (n,n') Level
Legendre Coefficients
44-Ru-99
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
45
Incident Energy (MeV)
44-Ru-99

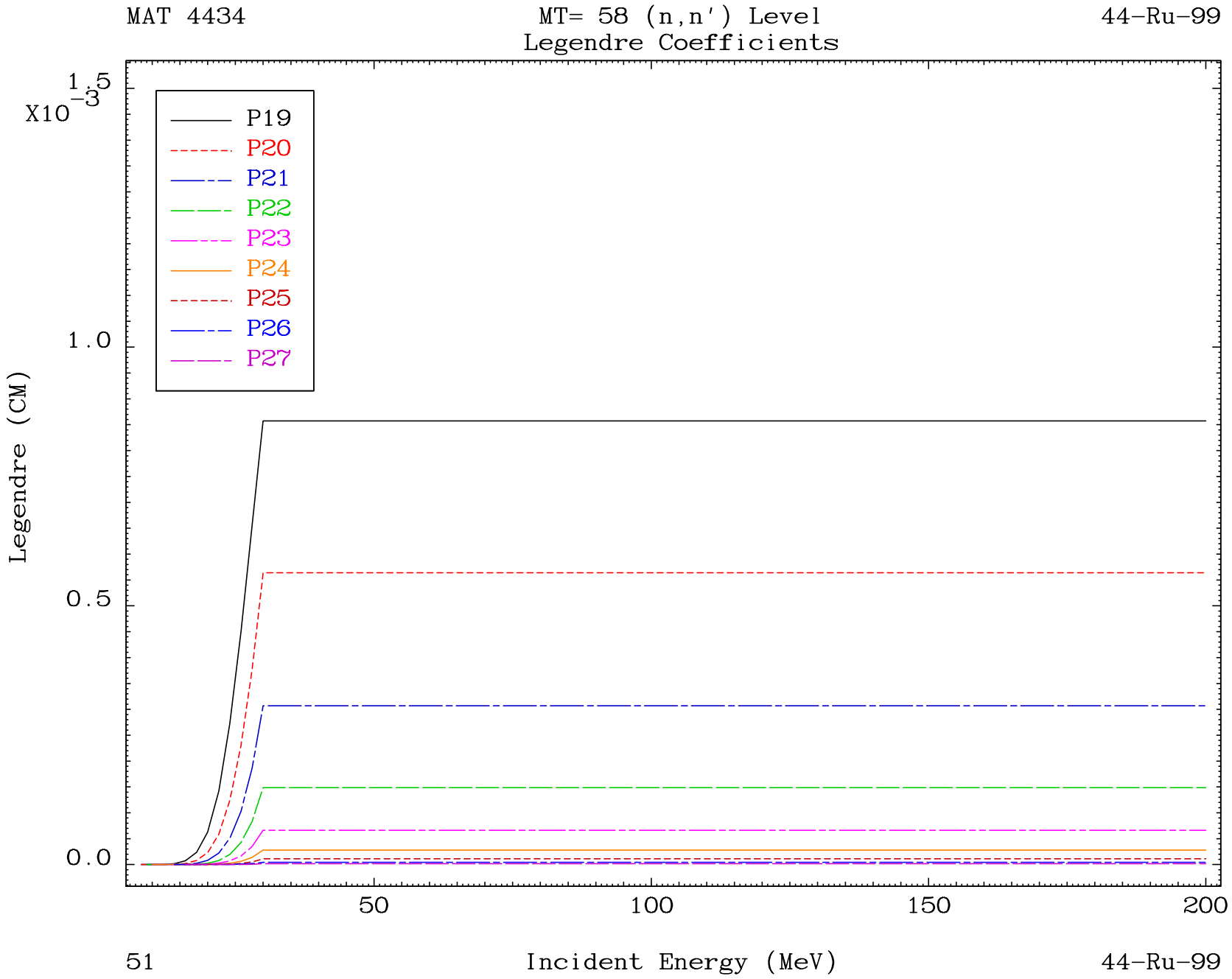

MAT 4434
MT= 57 (n,n') Level
Legendre Coefficients
44-Ru-99
0.03
0.02
0.01
0.00
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
46
Incident Energy (MeV)
44-Ru-99

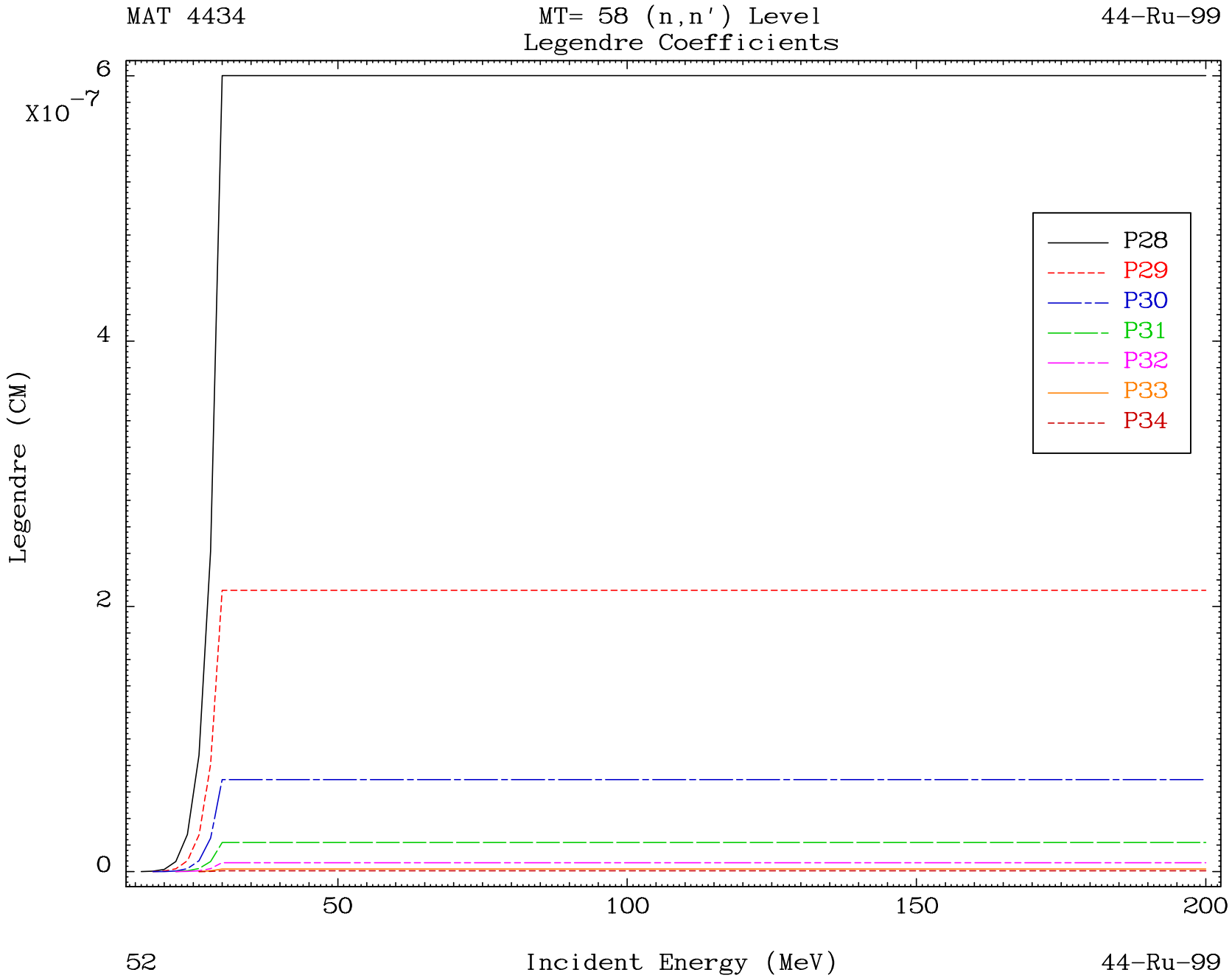

MAT 4434
MT= 57 (n,n') Level
Legendre Coefficients
44-Ru-99
0.0
X10^-3
-0.5
-1.0
-1.5
-2.0
Legendre (CM)
50
100
150
200
47
Incident Energy (MeV)
44-Ru-99
P19
P20
P21
P22
P23
P24
P25
P26
P27

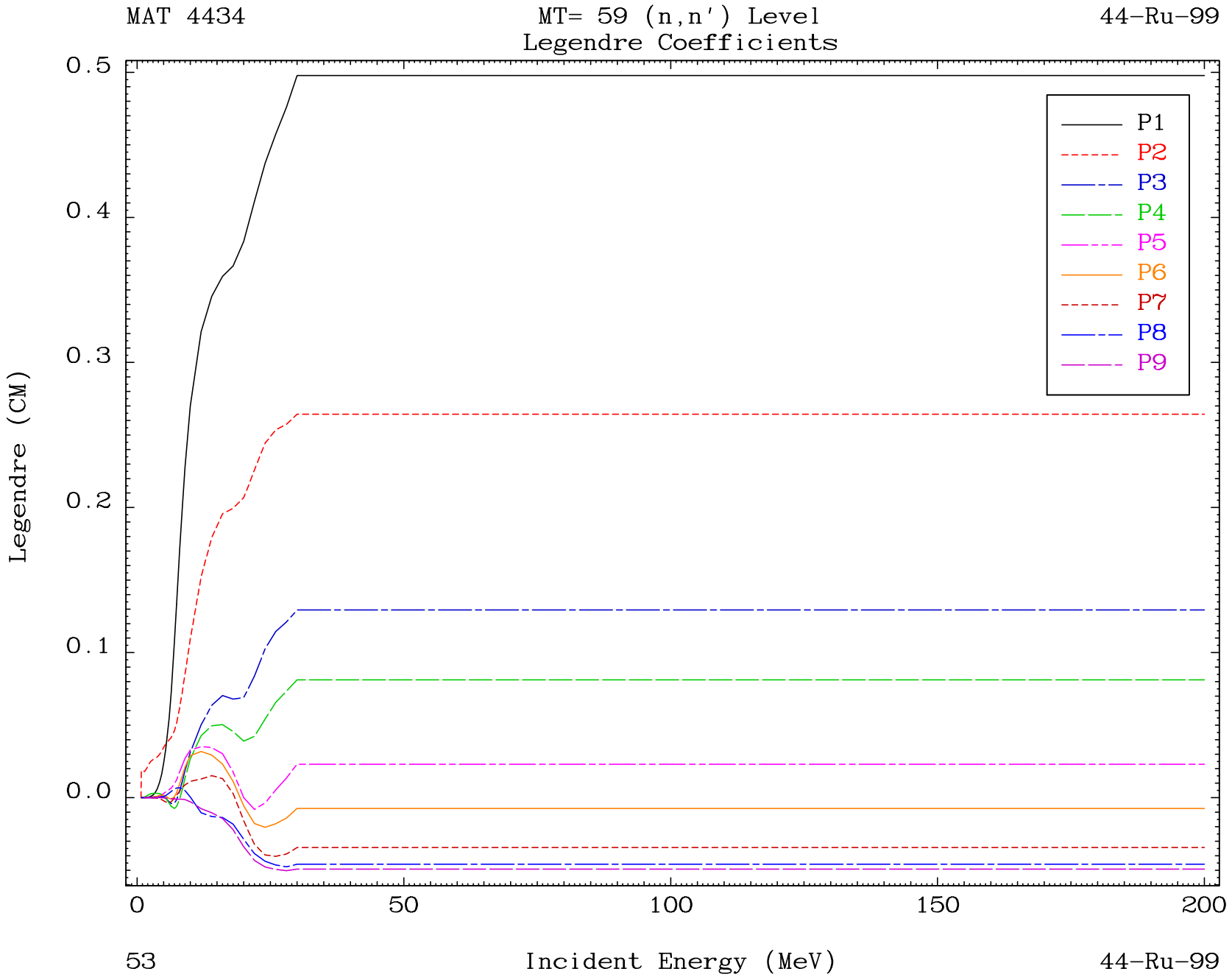

MAT 4434
MT= 57 (n,n') Level
Legendre Coefficients
44-Ru-99
0
X10^-7
-2
-4
-6
-8
Legendre (CM)
50
100
150
200
48
Incident Energy (MeV)
44-Ru-99
P28
P29
P30
P31
P32
P33
P34

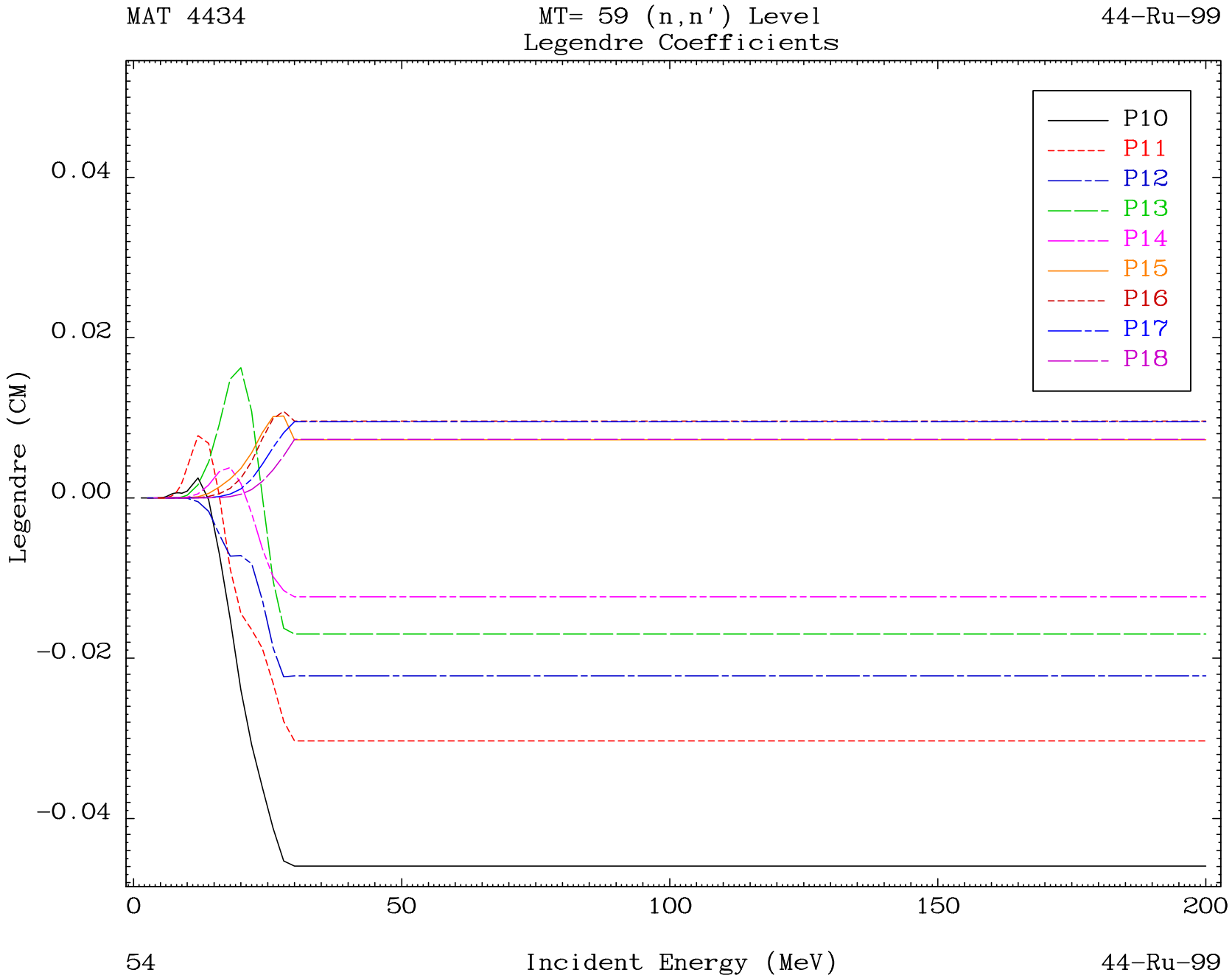

MAT 4434
MT= 58 (n,n') Level
Legendre Coefficients
44-Ru-99
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
49
Incident Energy (MeV)
44-Ru-99

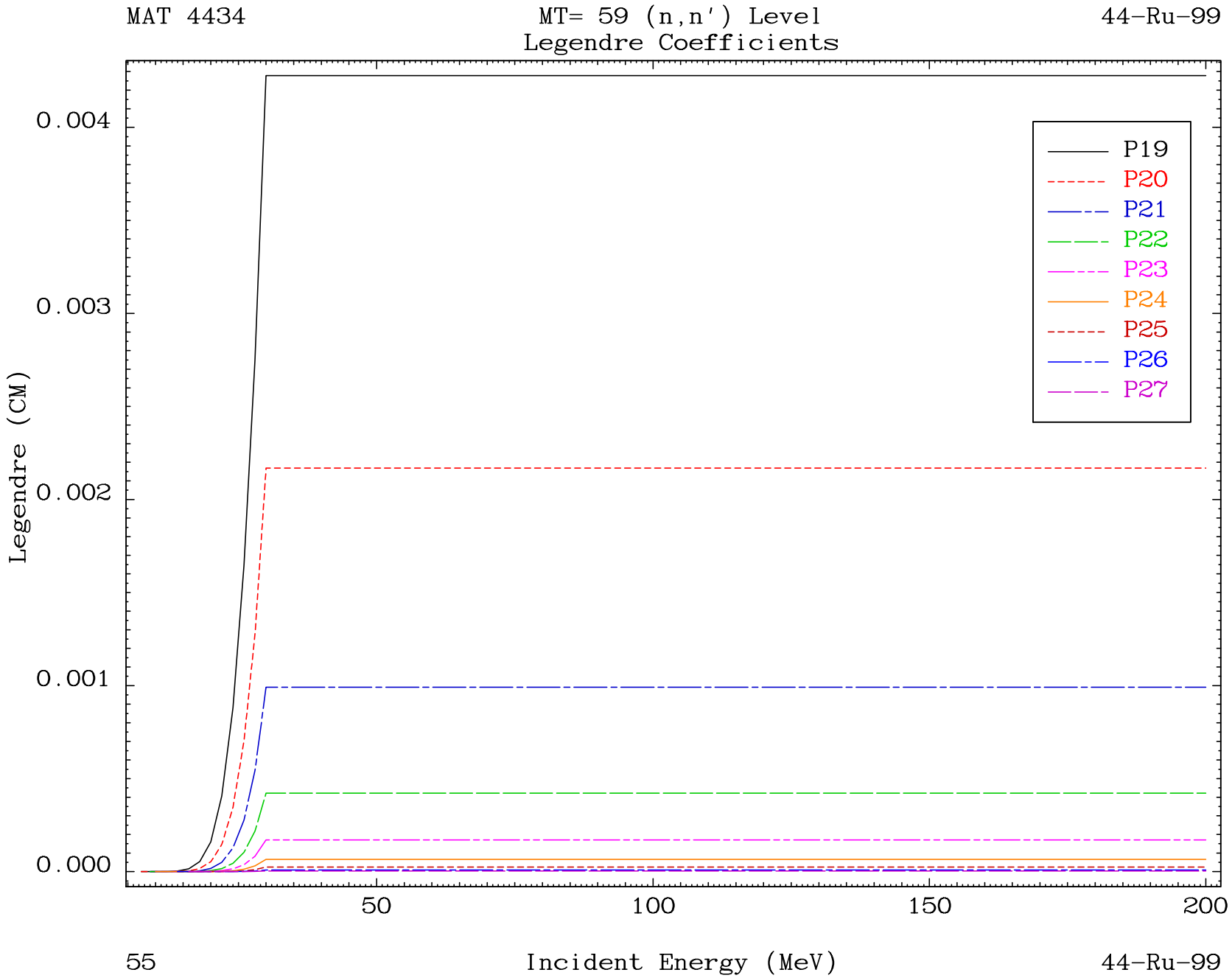

MAT 4434
MT= 58 (n,n') Level
Legendre Coefficients
44-Ru-99
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.025
0.020
0.015
0.010
0.005
0.000
-0.005
Legendre (CM)
0
50
100
150
200
50
Incident Energy (MeV)
44-Ru-99

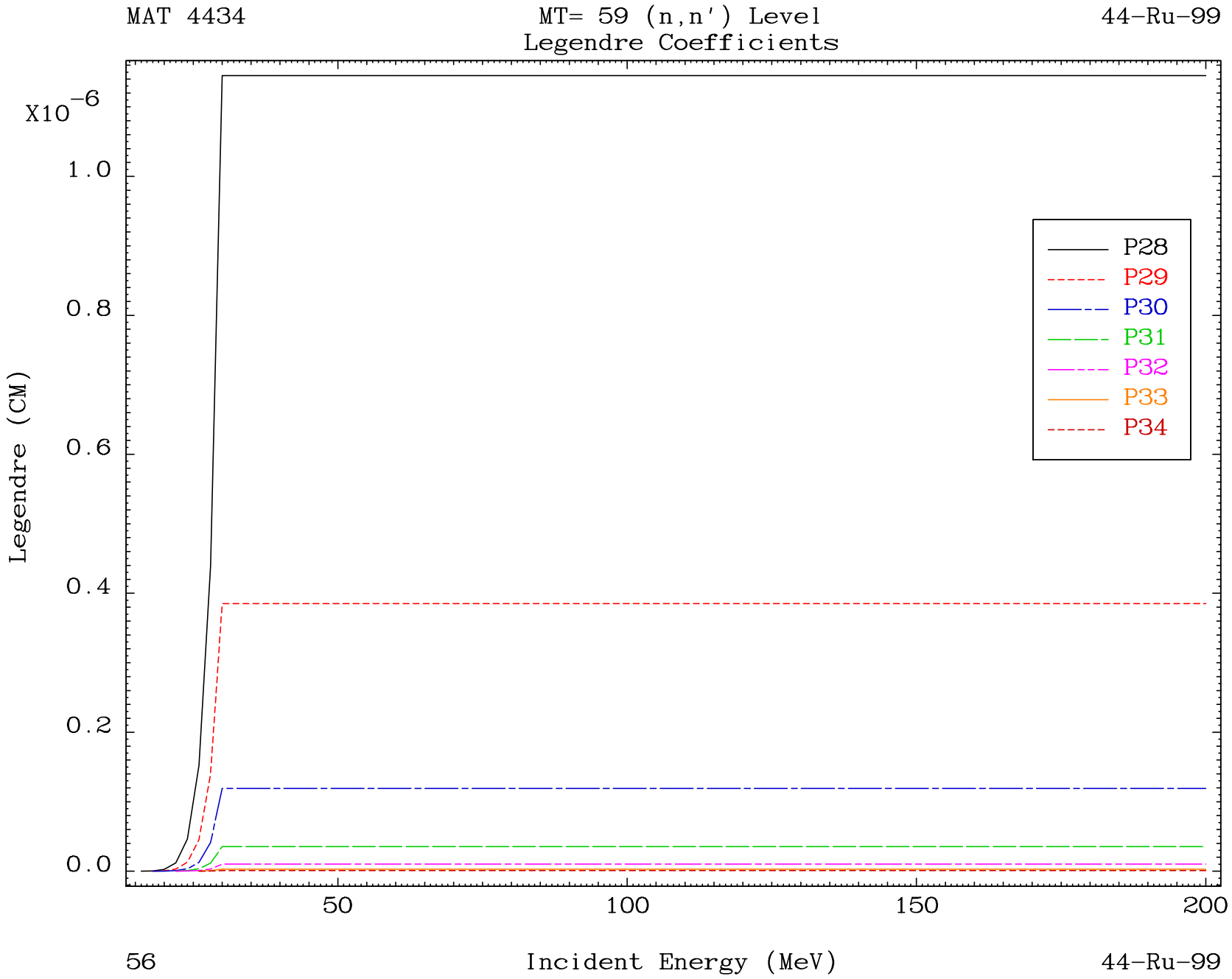

MAT 4434
MT= 58 (n,n') Level
Legendre Coefficients
44-Ru-99
X10-3
1.5
1.0
0.5
0.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
51
Incident Energy (MeV)
44-Ru-99

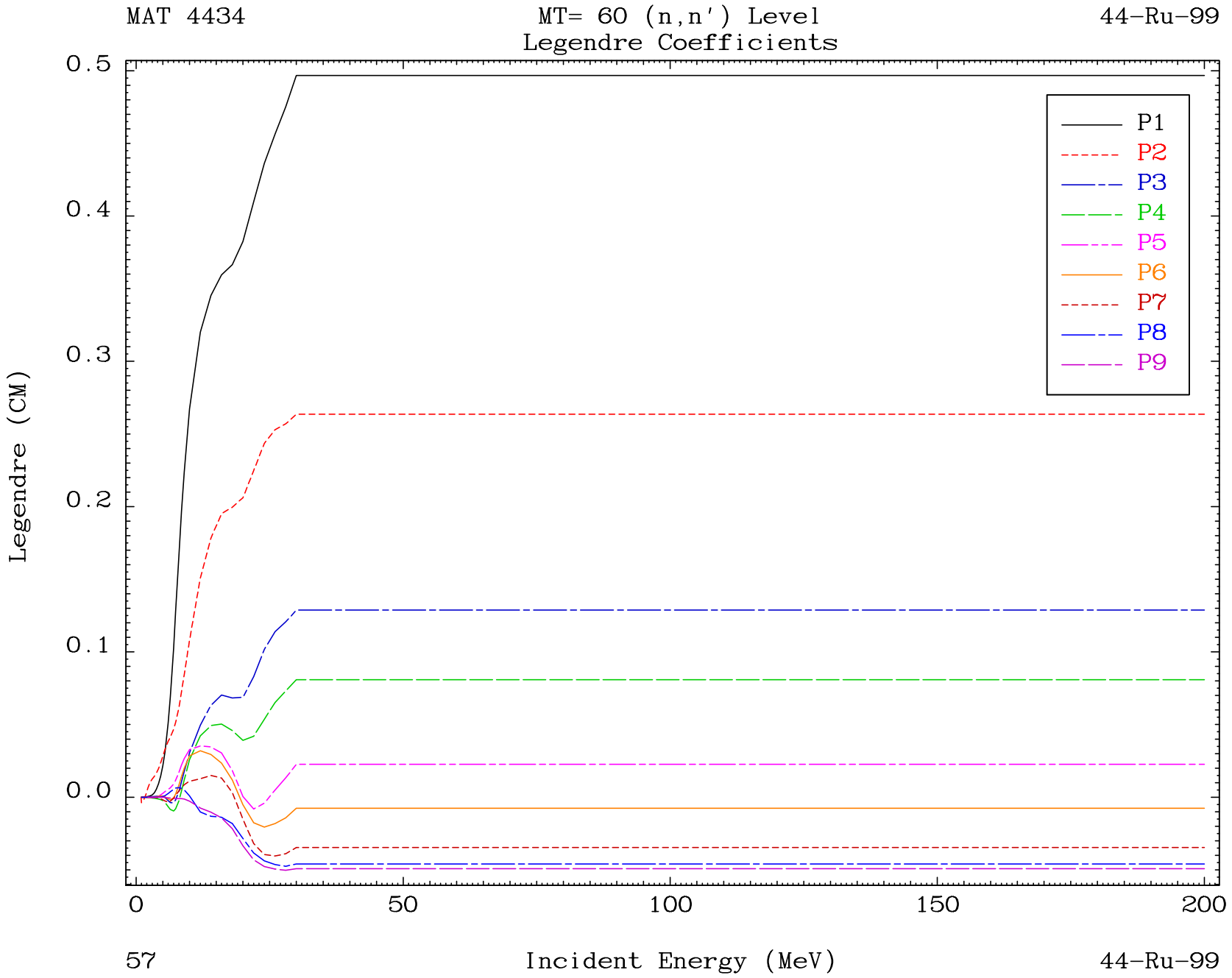

MAT 4434
MT= 58 (n,n') Level
Legendre Coefficients
44-Ru-99
X10^-7
6
4
2
0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
52
Incident Energy (MeV)
44-Ru-99

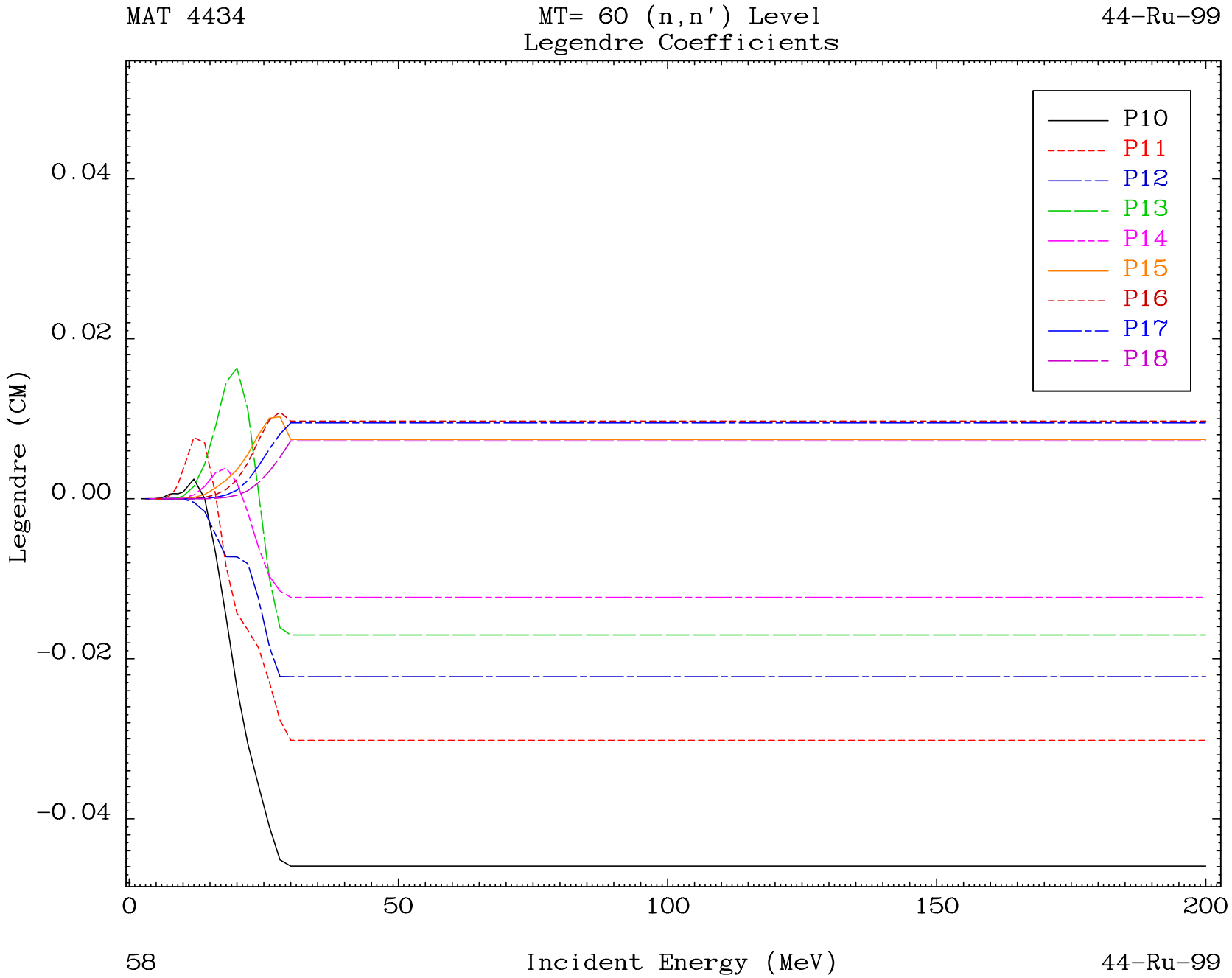

MAT 4434
MT= 59 (n,n') Level
Legendre Coefficients
44-Ru-99
0.5
0.4
0.3
0.2
0.1
0.0
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
53
Incident Energy (MeV)
44-Ru-99

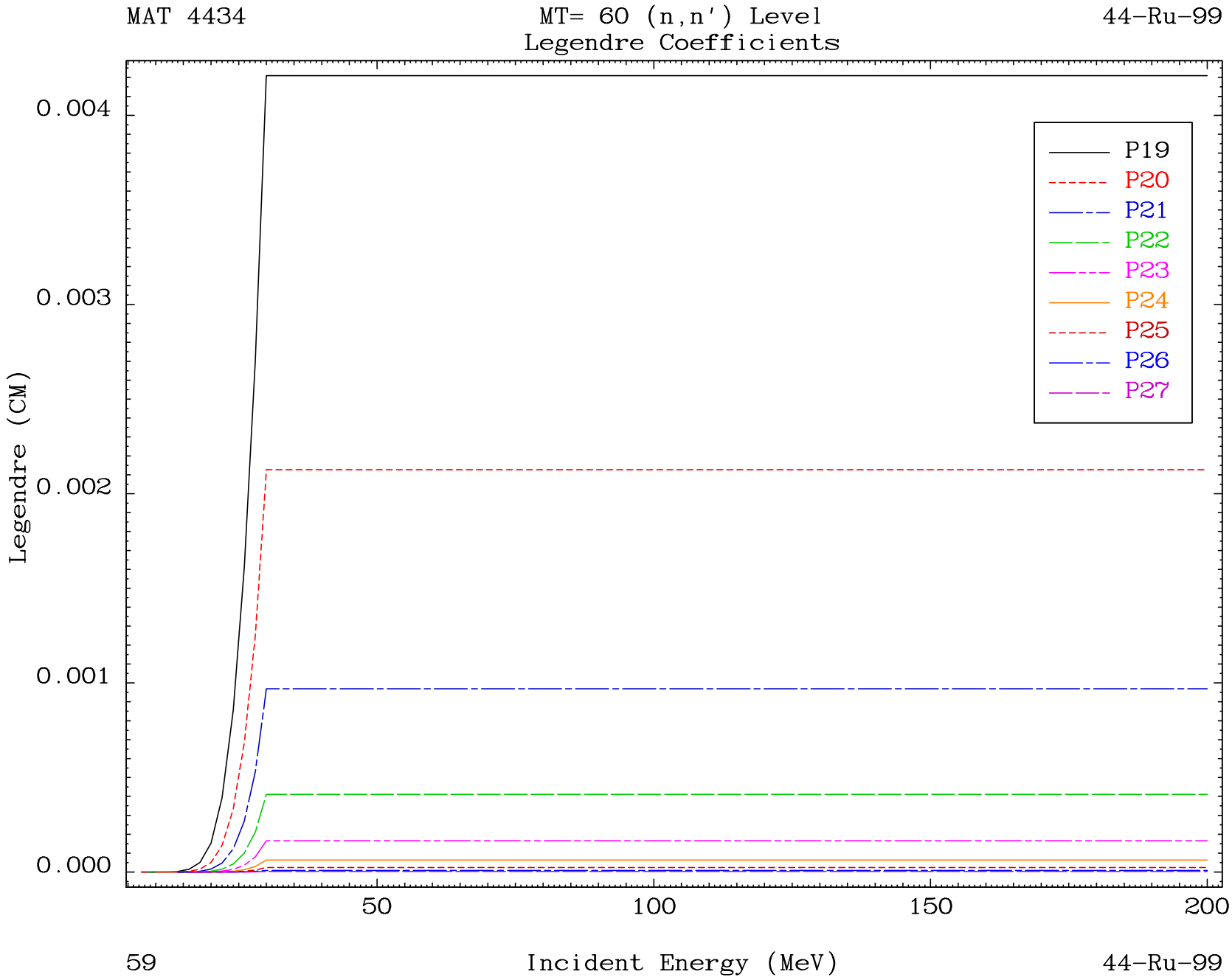

MAT 4434
MT= 59 (n,n') Level
Legendre Coefficients
44-Ru-99
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.04
0.02
0.00
-0.02
-0.04
Legendre (CM)
0
50
100
150
200
54
Incident Energy (MeV)
44-Ru-99

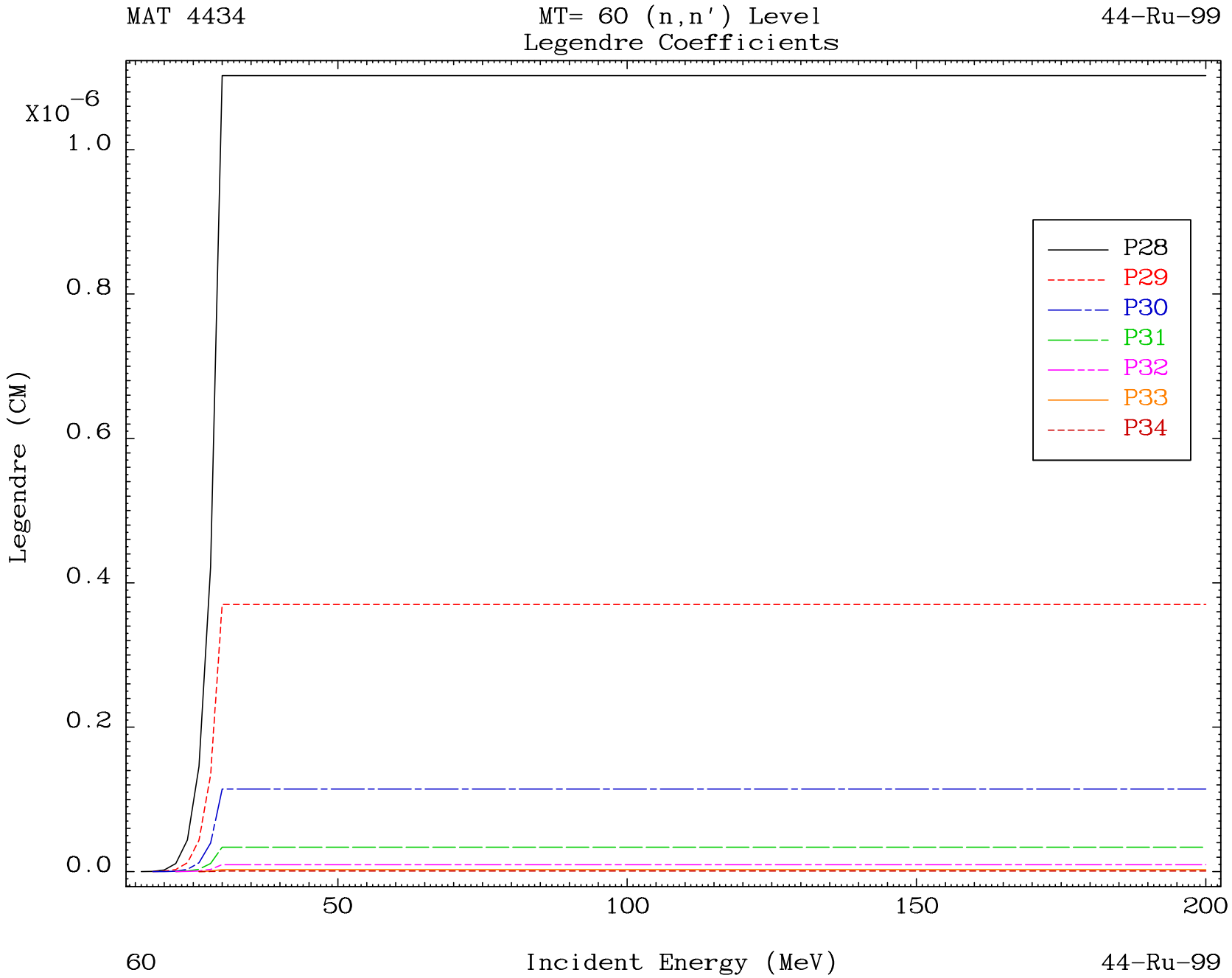

MAT 4434
MT= 59 (n,n') Level
Legendre Coefficients
44-Ru-99
0.004
0.003
0.002
0.001
0.000
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
55
Incident Energy (MeV)
44-Ru-99

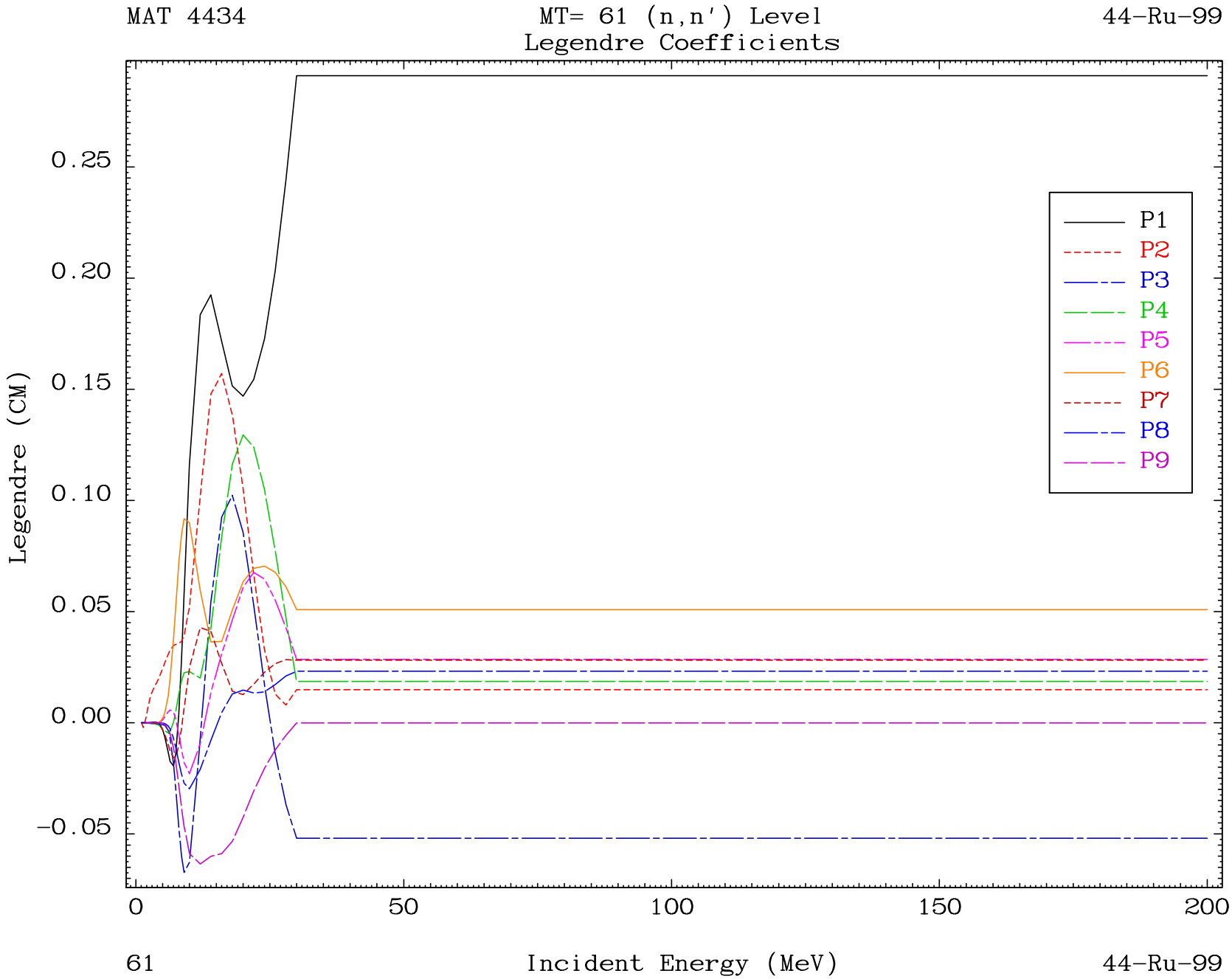

MAT 4434
MT= 59 (n,n') Level
Legendre Coefficients
44-Ru-99
X10^-6
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
56
Incident Energy (MeV)
44-Ru-99

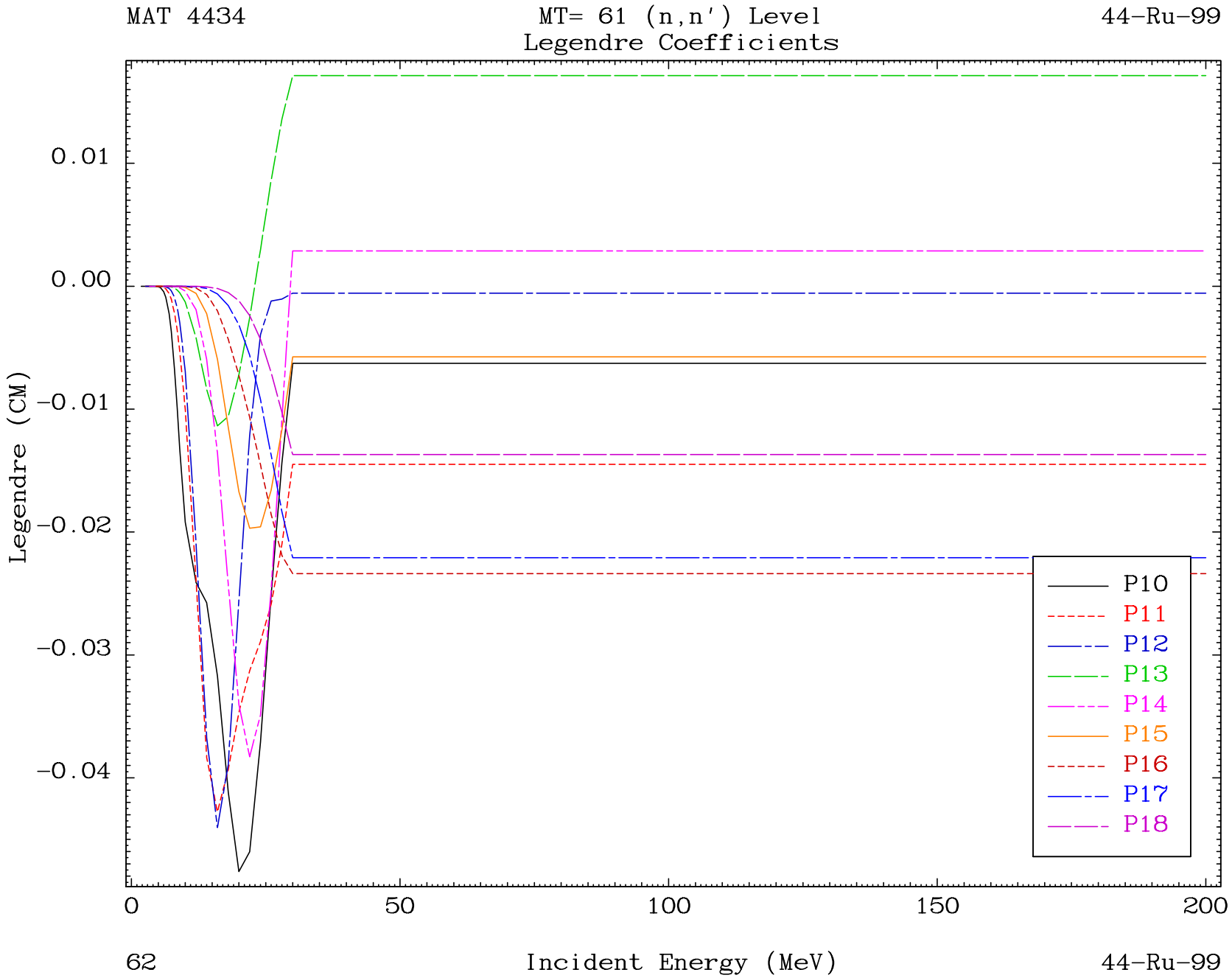

MAT 4434
MT= 60 (n,n') Level
Legendre Coefficients
44-Ru-99
0.5
0.4
0.3
0.2
0.1
0.0
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
57
Incident Energy (MeV)
44-Ru-99

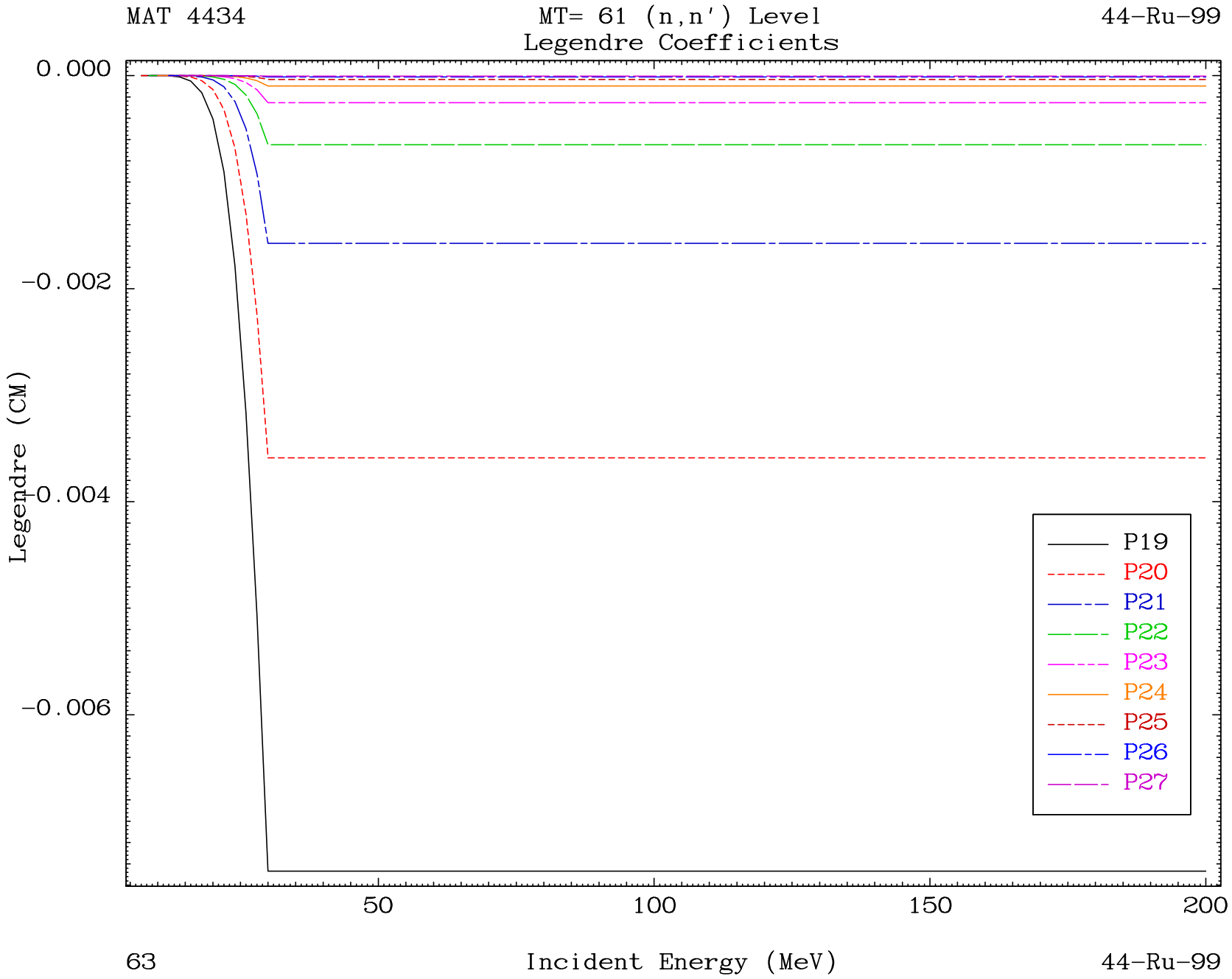

MAT 4434
MT= 60 (n,n') Level
Legendre Coefficients
44-Ru-99
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.04
0.02
0.00
-0.02
-0.04
Legendre (CM)
0
50
100
150
200
58
Incident Energy (MeV)
44-Ru-99

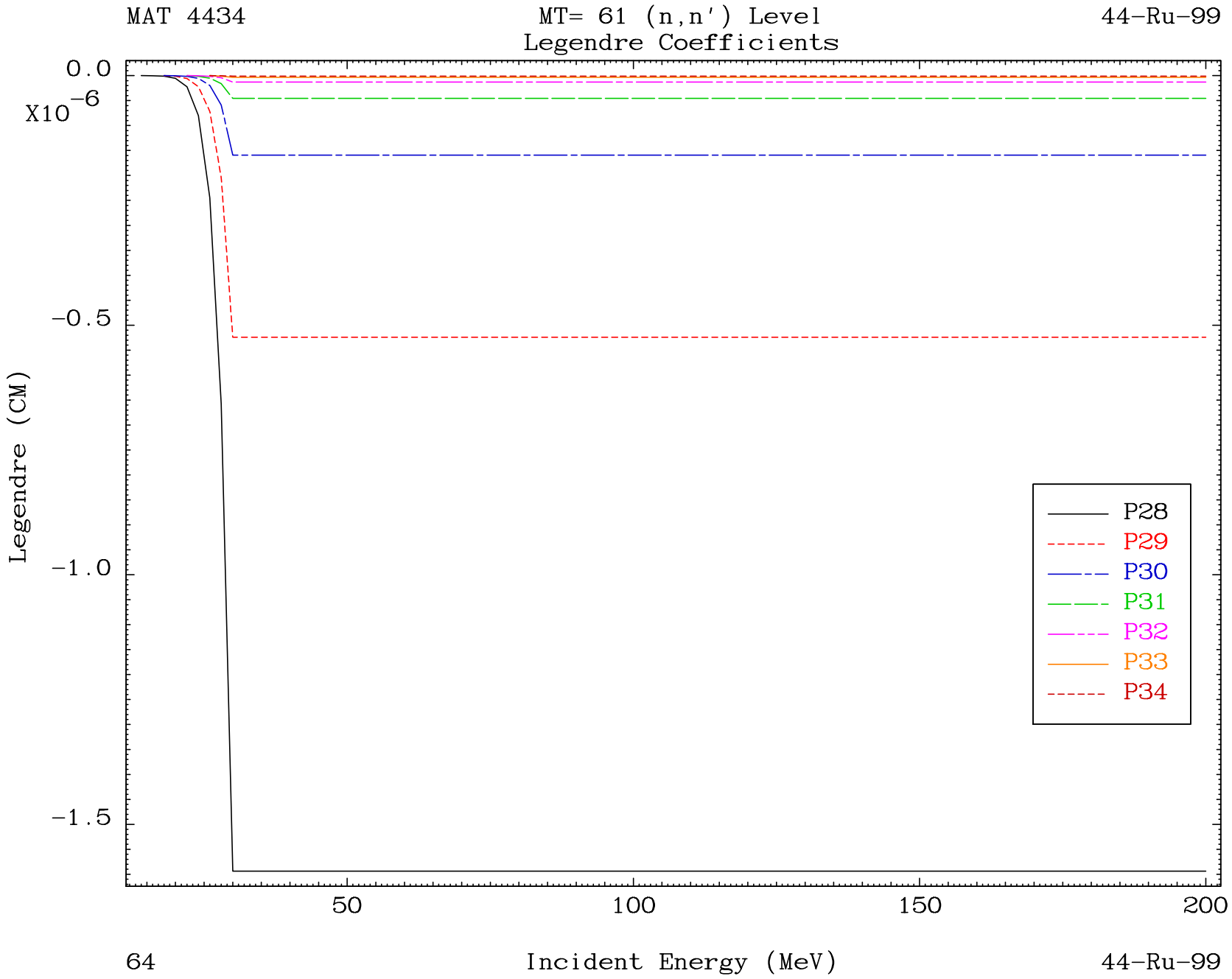

MAT 4434
MT= 60 (n,n') Level
Legendre Coefficients
44-Ru-99
0.004
0.003
0.002
0.001
0.000
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
59
Incident Energy (MeV)
44-Ru-99

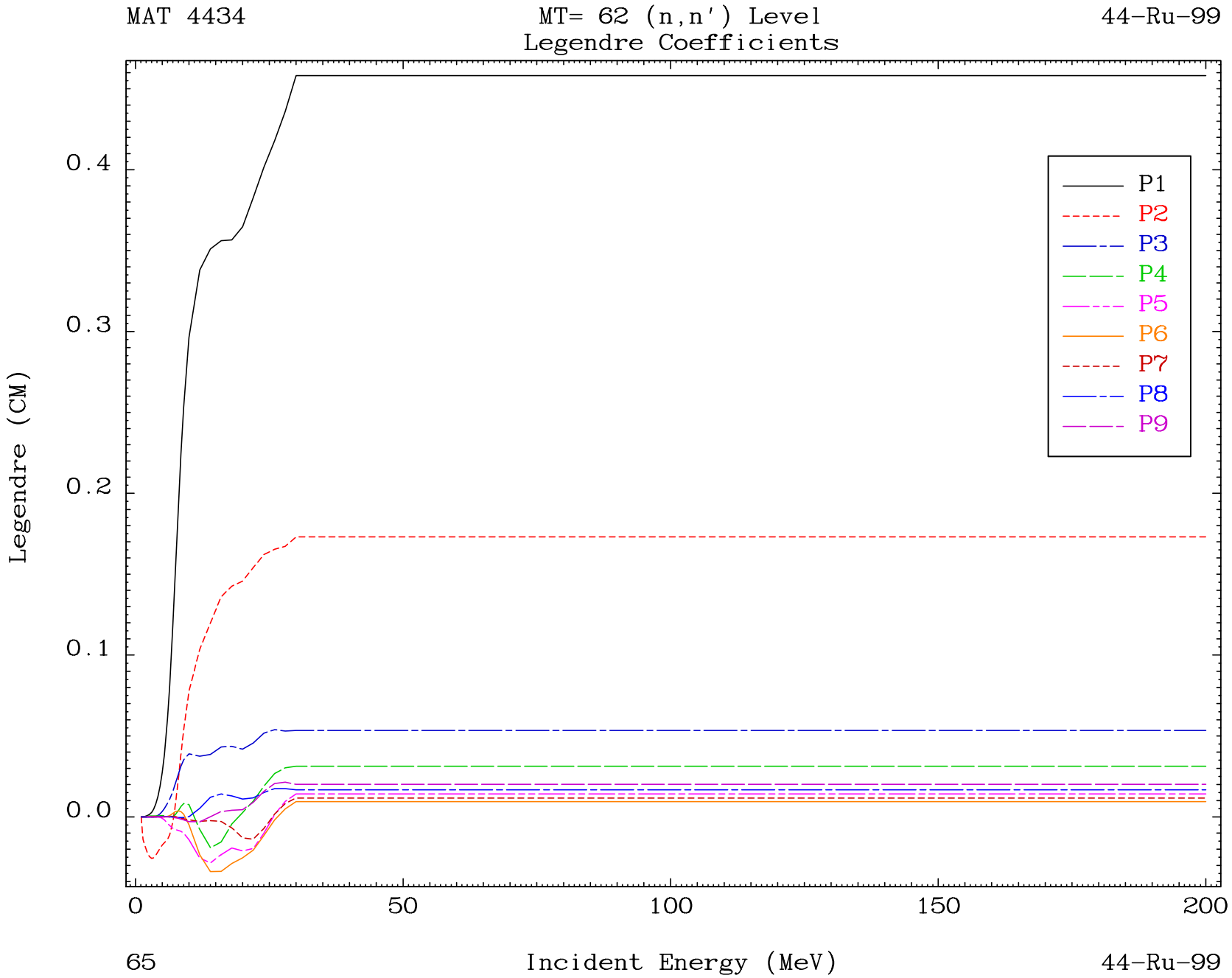

MAT 4434
MT= 60 (n,n') Level
Legendre Coefficients
44-Ru-99
X10^-6
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
60
Incident Energy (MeV)
44-Ru-99

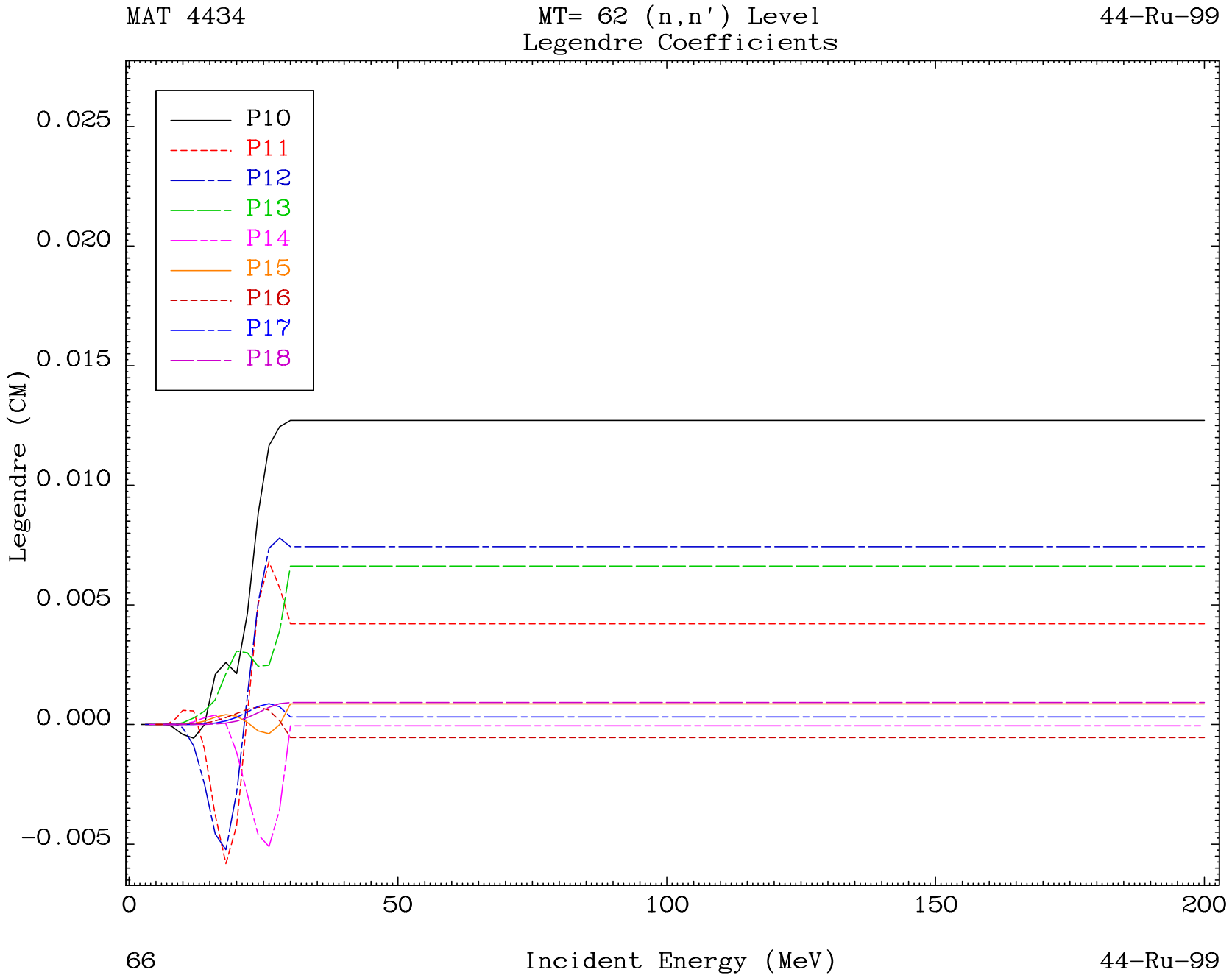

MAT 4434
MT= 61 (n,n') Level
Legendre Coefficients
44-Ru-99
Legendre (CM)
0.25
0.20
0.15
0.10
0.05
0.00
-0.05
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
61
Incident Energy (MeV)
44-Ru-99

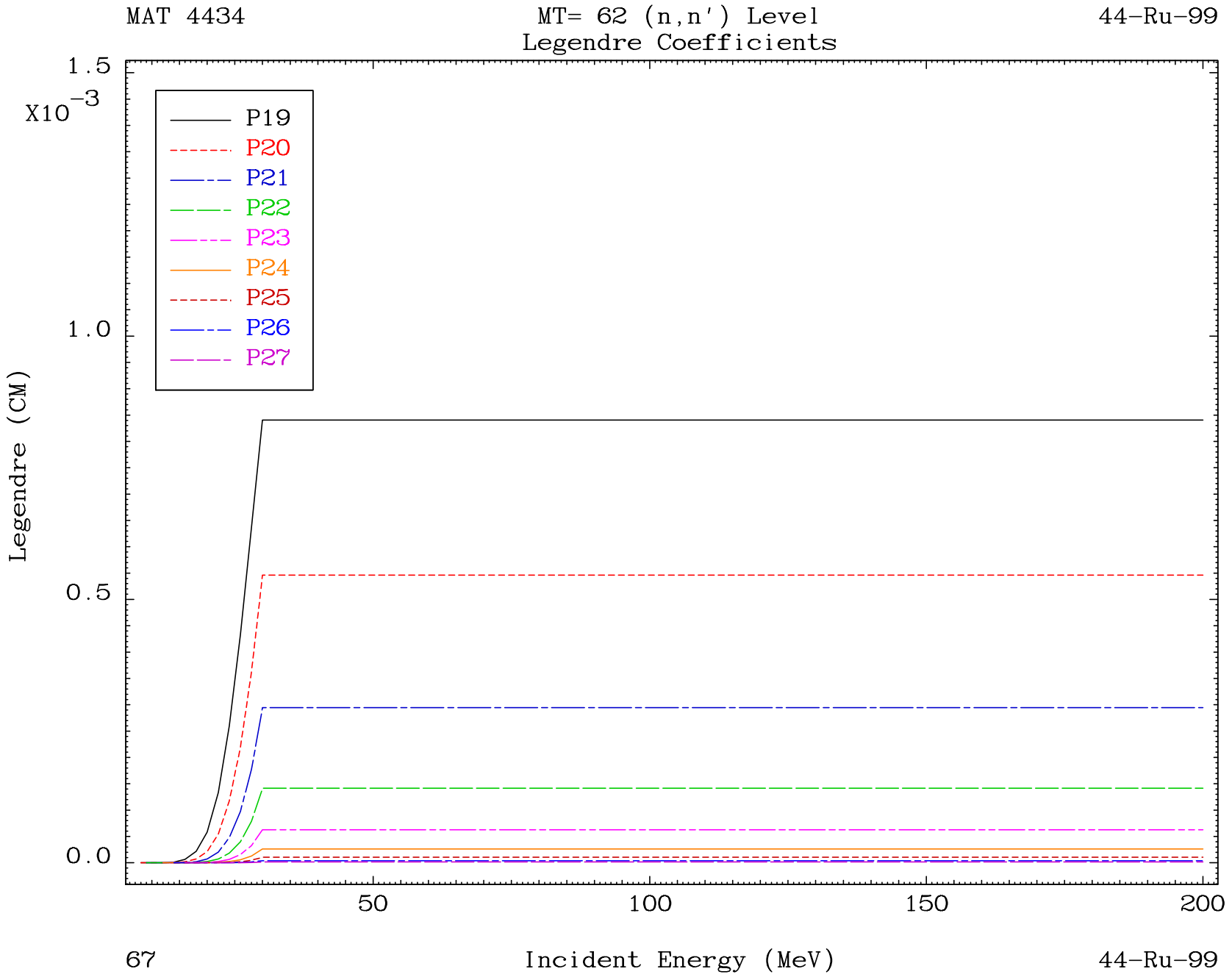

MAT 4434
MT= 61 (n,n') Level
Legendre Coefficients
44-Ru-99
0.01
0.00
-0.01
-0.02
-0.03
-0.04
Legendre (CM)
0
50
100
150
200
62
Incident Energy (MeV)
44-Ru-99
P10
P11
P12
P13
P14
P15
P16
P17
P18

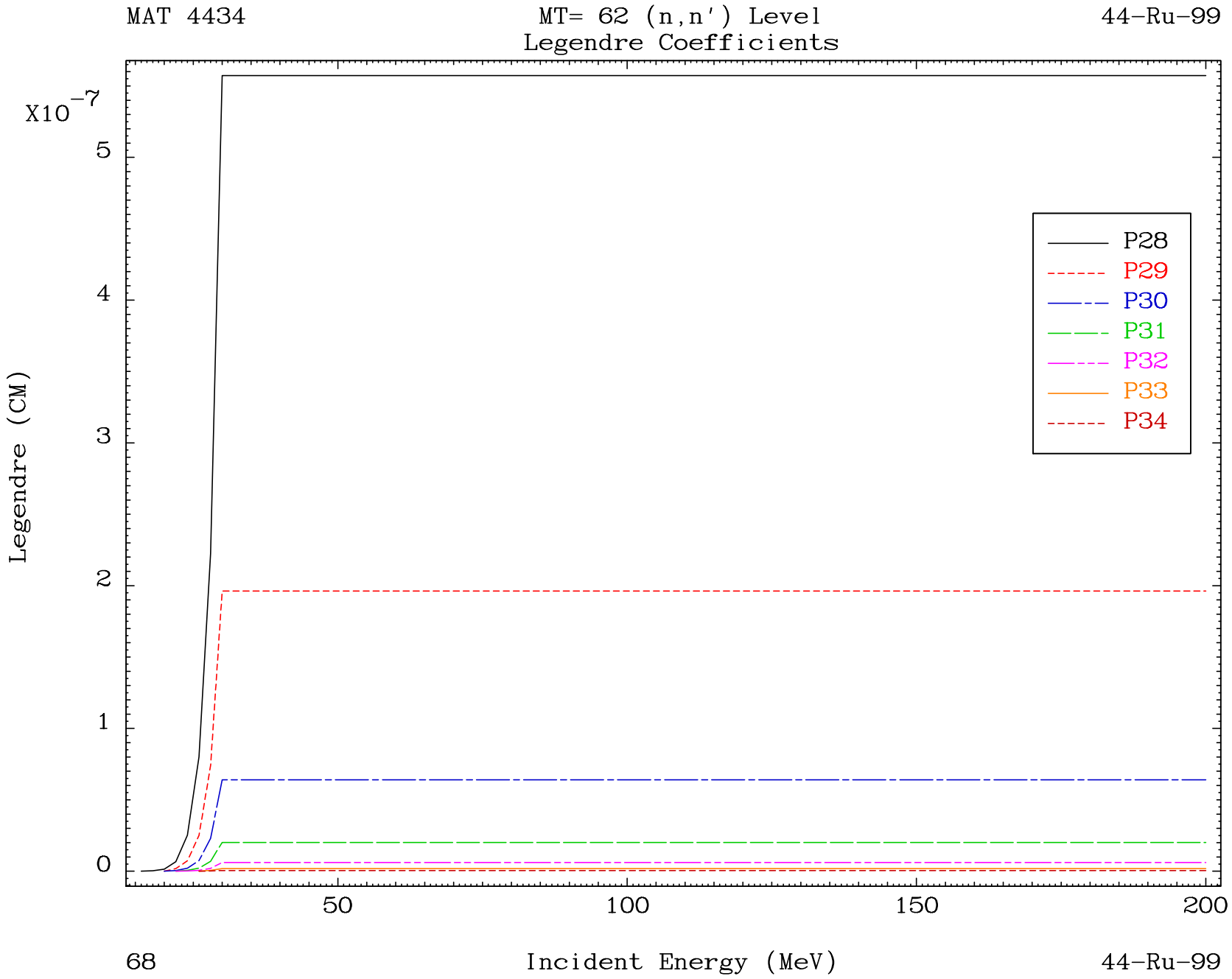

MAT 4434
MT= 61 (n,n') Level
Legendre Coefficients
44-Ru-99
0.000
-0.002
-0.004
-0.006
Legendre (CM)
50
100
150
200
63
Incident Energy (MeV)
44-Ru-99
P19
P20
P21
P22
P23
P24
P25
P26
P27

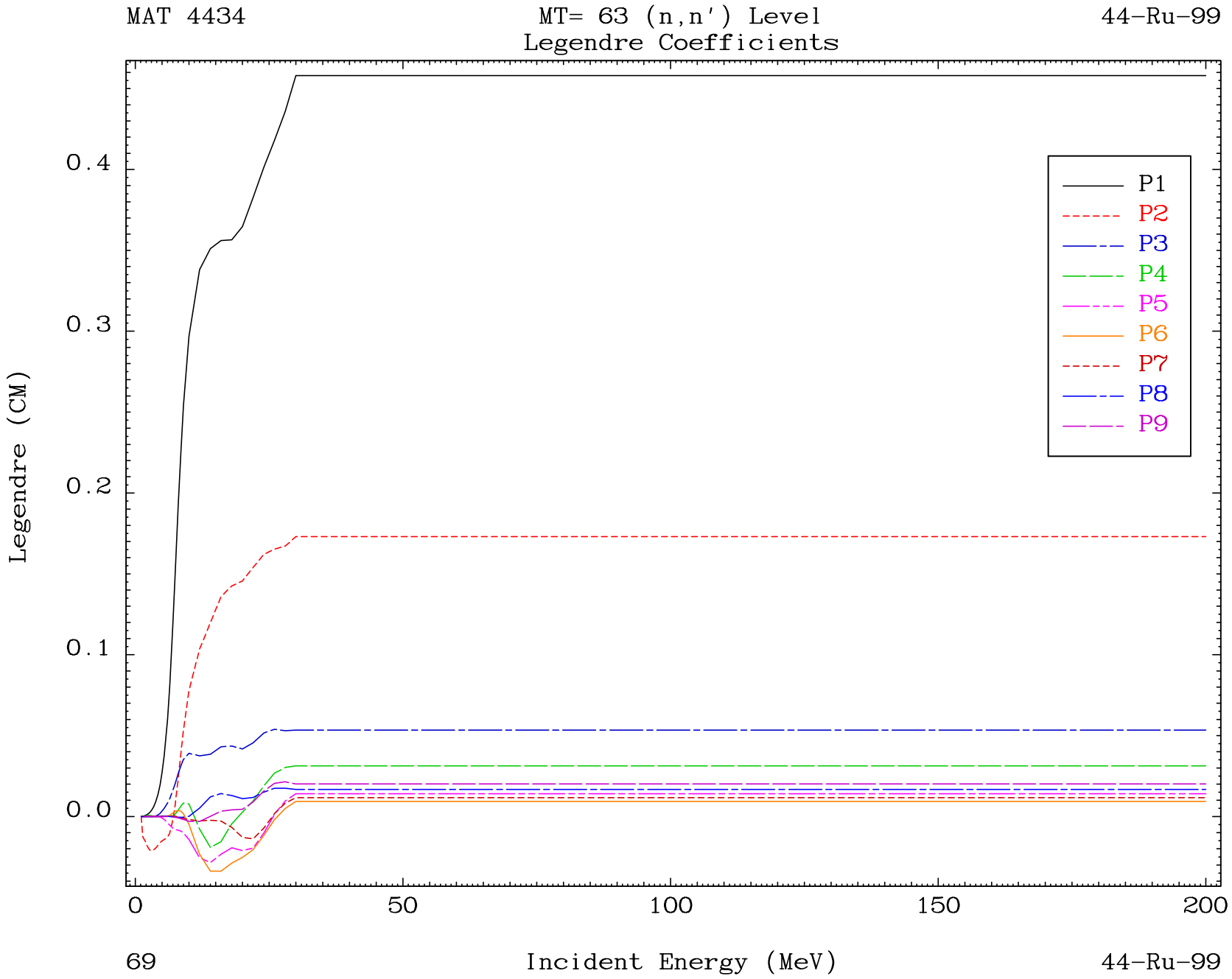

MAT 4434
MT= 61 (n,n') Level
Legendre Coefficients
44-Ru-99
0.0
X10^-6
-0.5
-1.0
-1.5
Legendre (CM)
50
100
150
200
64
Incident Energy (MeV)
44-Ru-99
P28
P29
P30
P31
P32
P33
P34

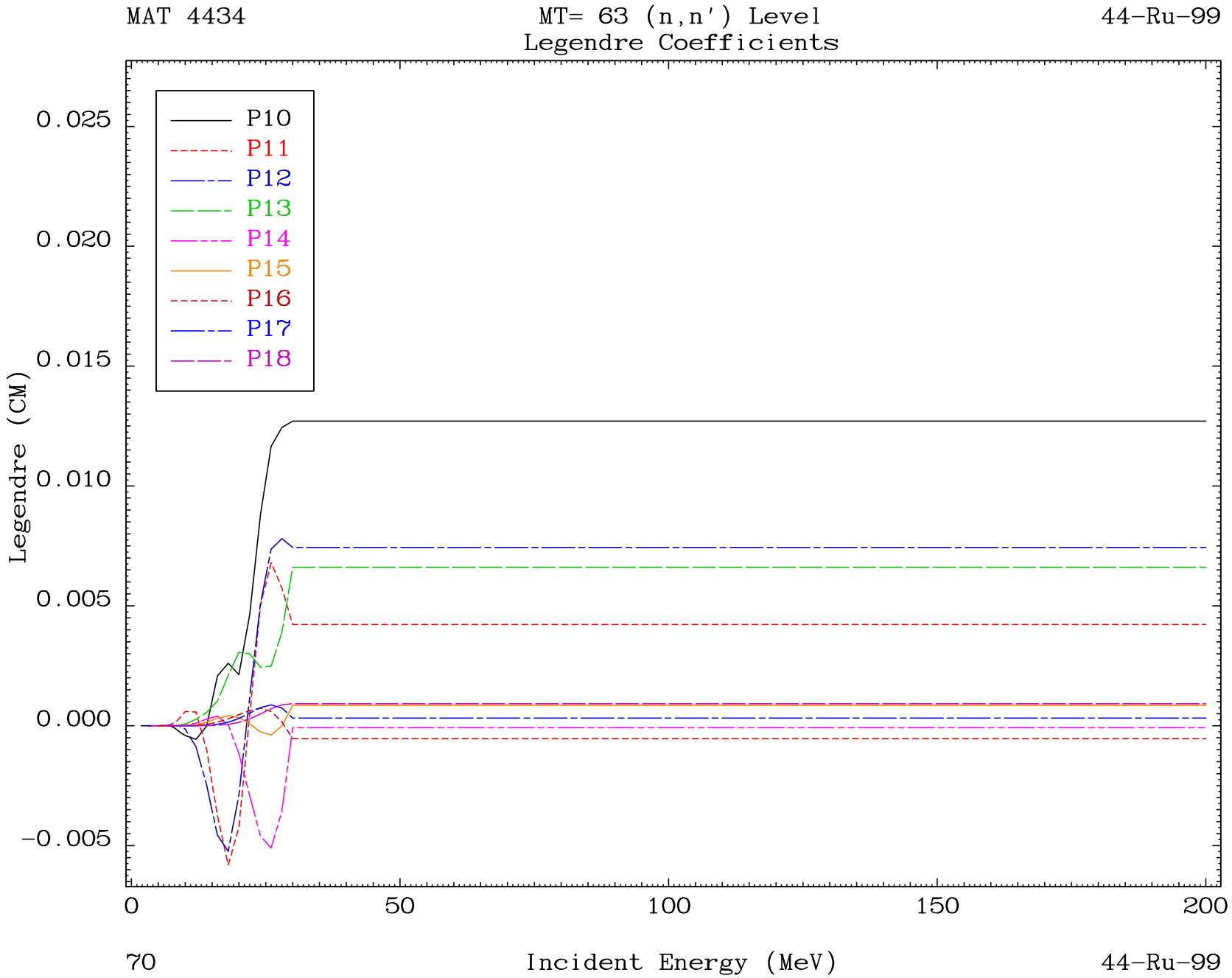

MAT 4434
MT= 62 (n,n') Level
Legendre Coefficients
44-Ru-99
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
65
Incident Energy (MeV)
44-Ru-99

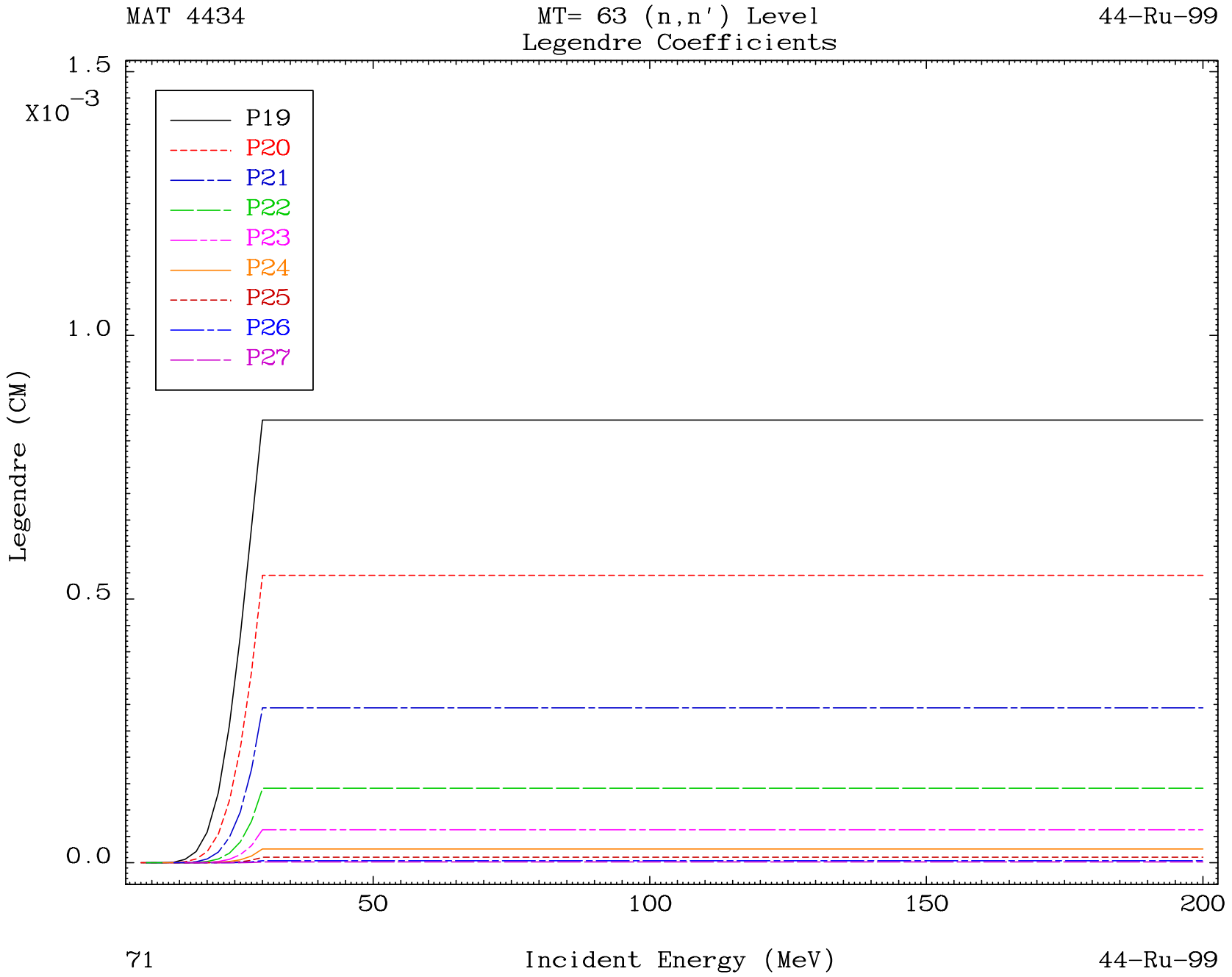

MAT 4434
MT= 62 (n,n') Level
Legendre Coefficients
44-Ru-99
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.025
0.020
0.015
0.010
0.005
0.000
-0.005
Legendre (CM)
0
50
100
150
200
66
Incident Energy (MeV)
44-Ru-99

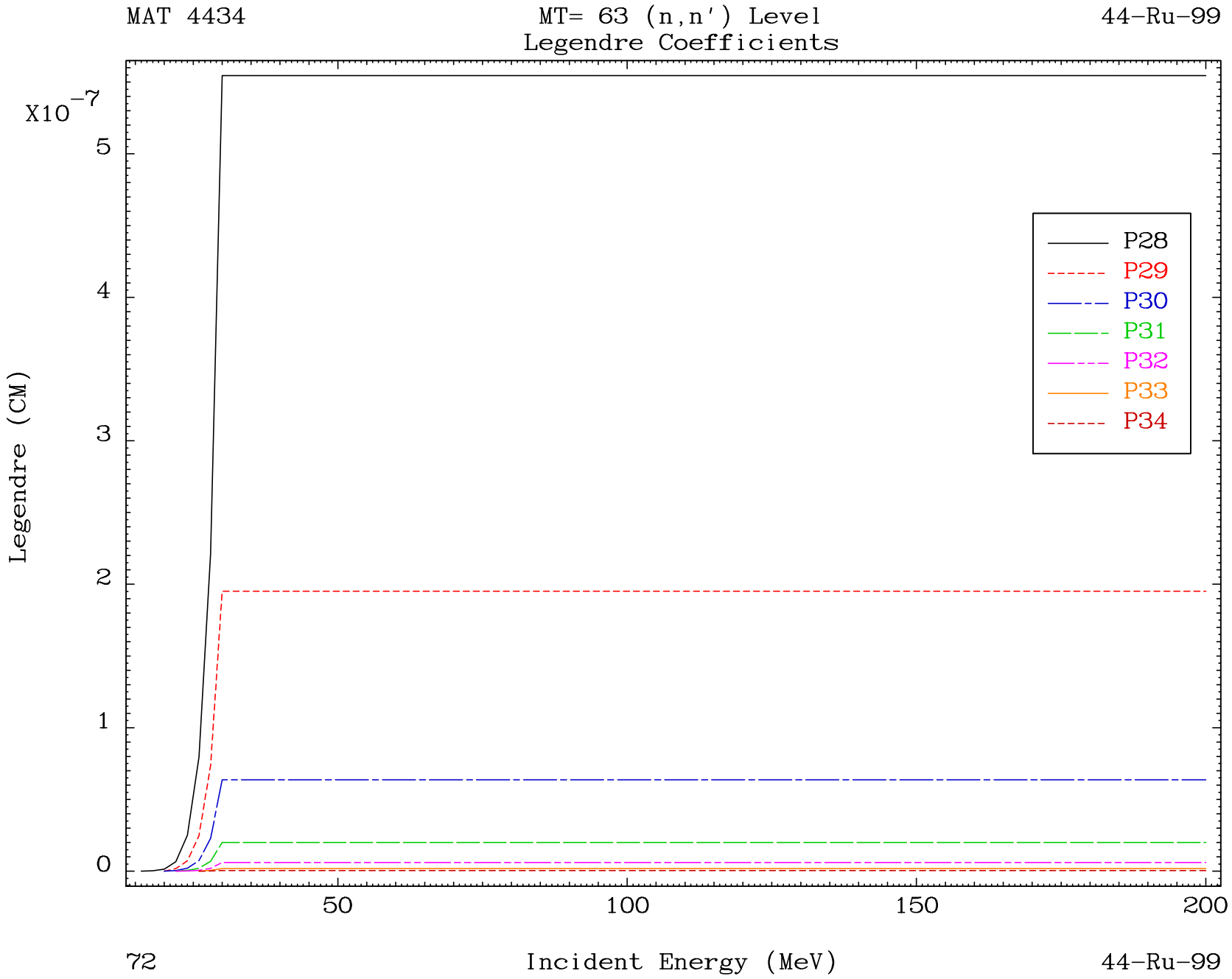

MAT 4434
MT= 62 (n,n') Level
Legendre Coefficients
44-Ru-99
1.5
X10-3
1.0
0.5
0.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
67
Incident Energy (MeV)
44-Ru-99

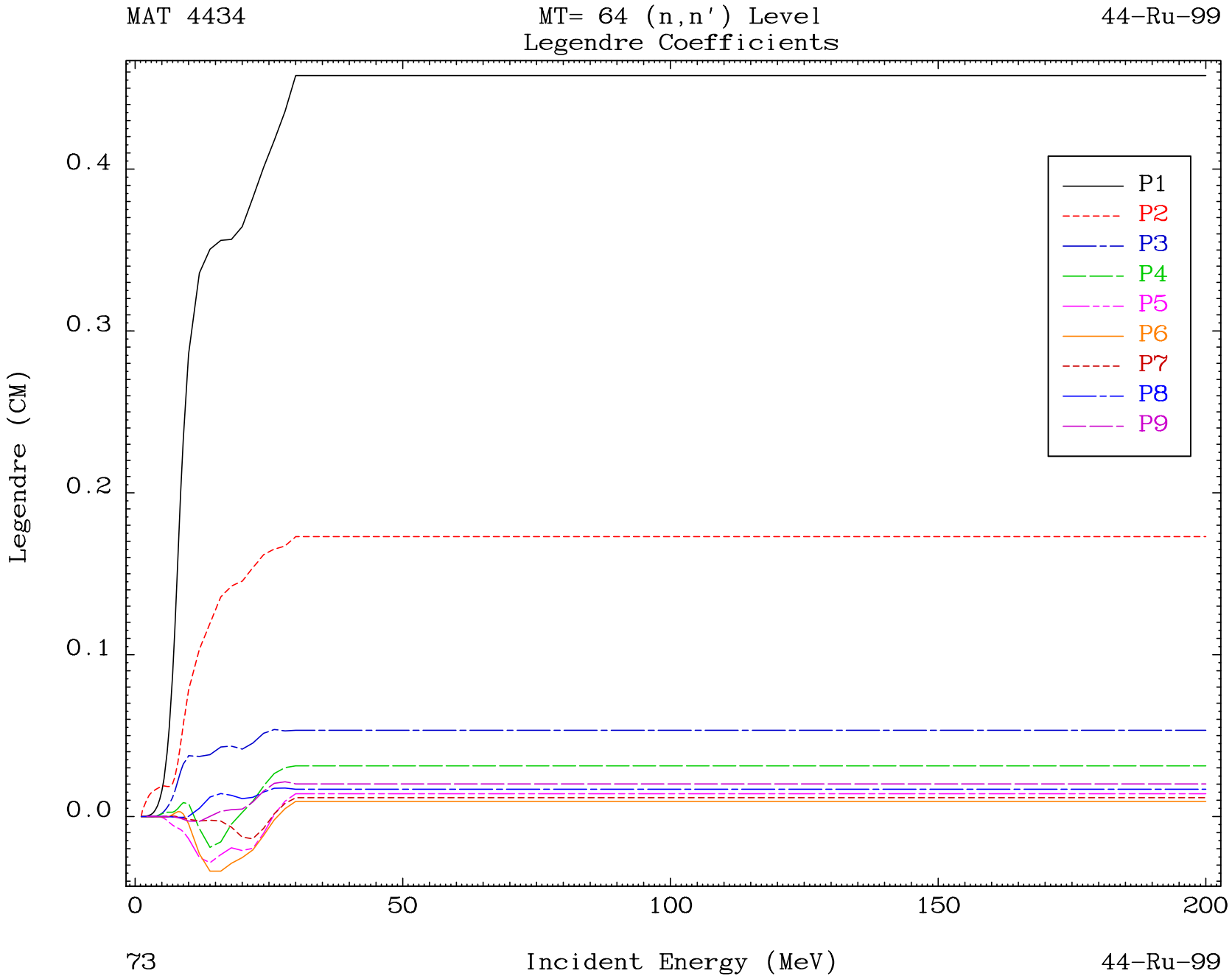

MAT 4434
MT= 62 (n,n') Level
Legendre Coefficients
44-Ru-99
X10^-7
5
4
3
2
1
0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
68
Incident Energy (MeV)
44-Ru-99

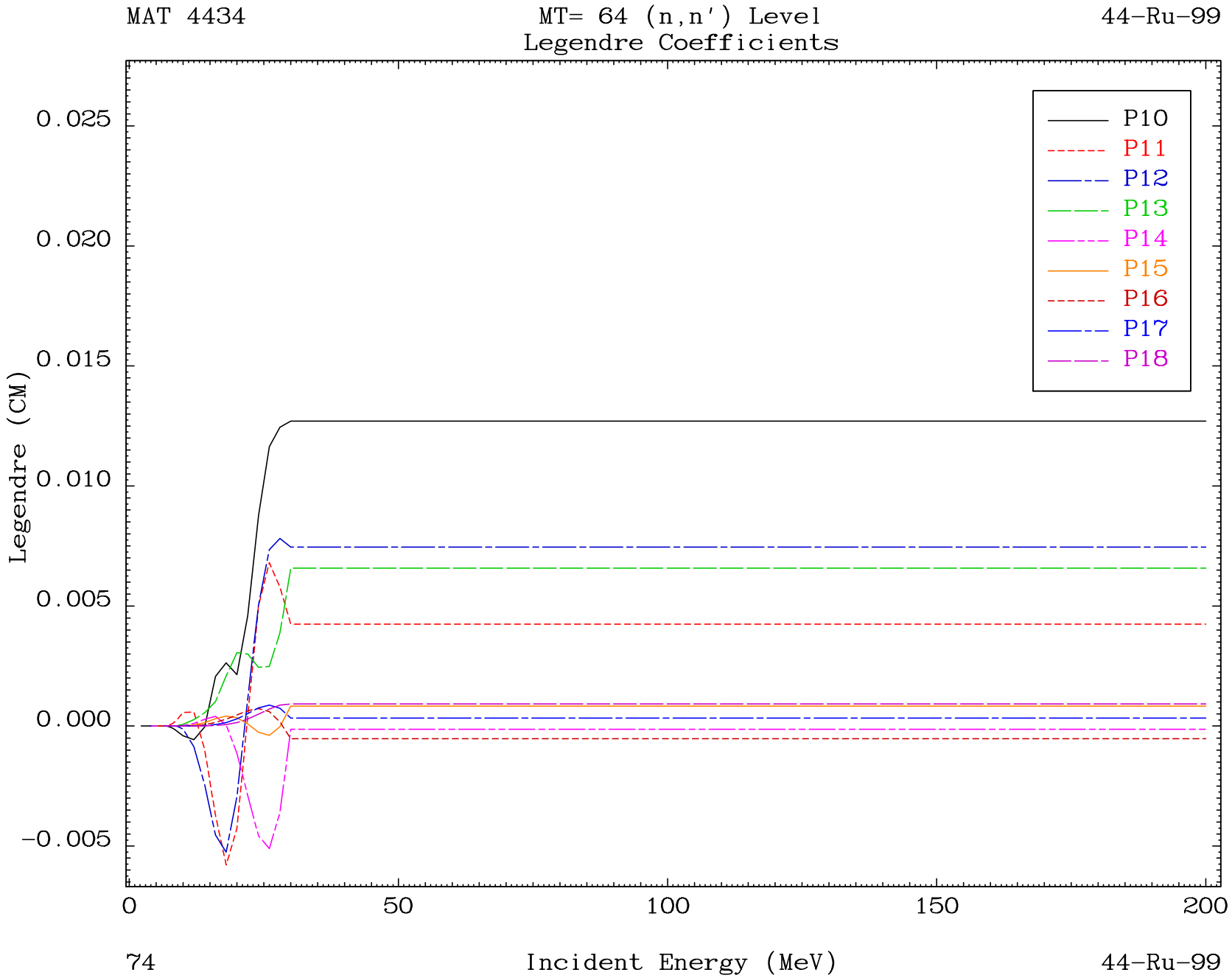

MAT 4434
MT= 63 (n,n') Level
Legendre Coefficients
44-Ru-99
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
69
Incident Energy (MeV)
44-Ru-99

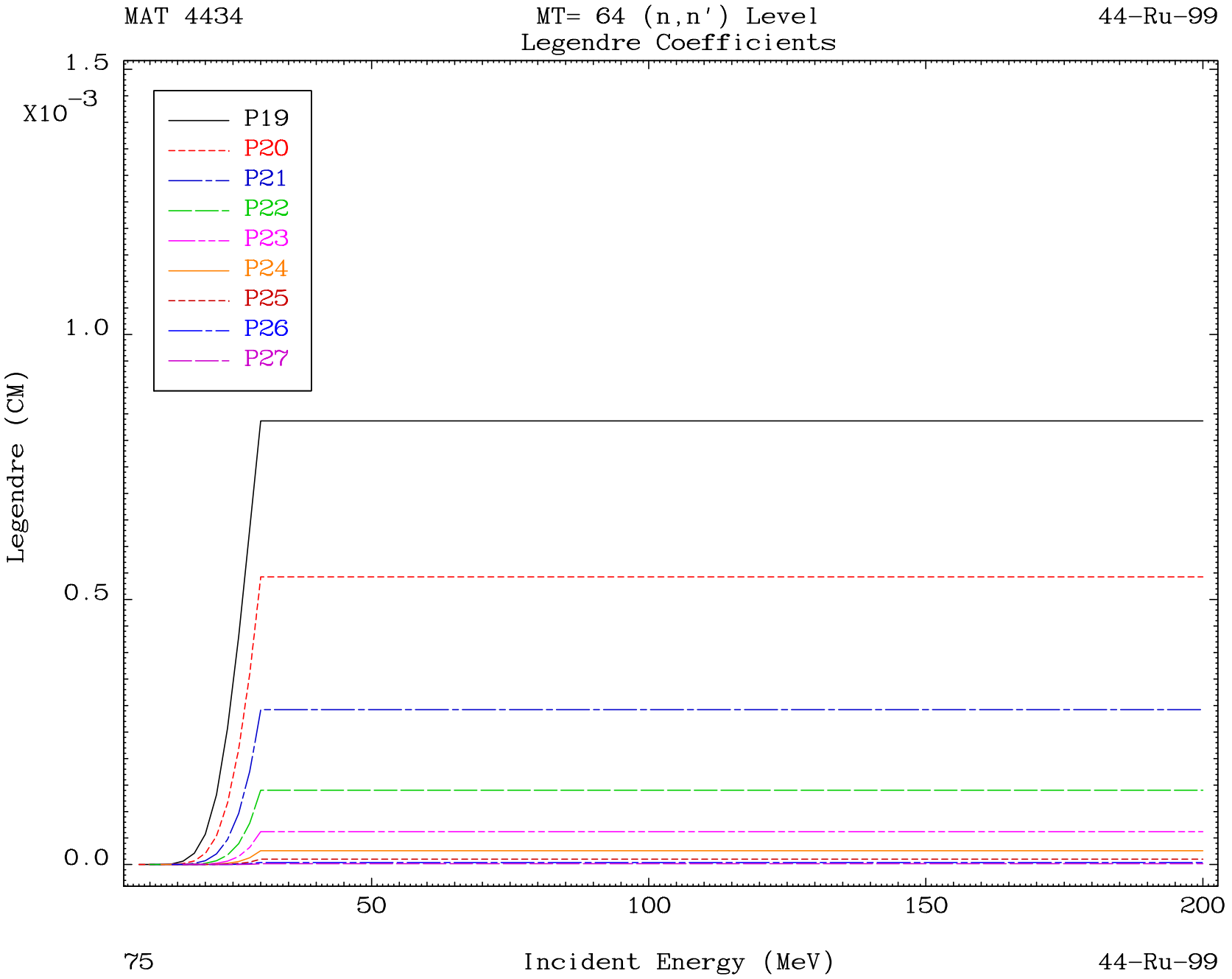

MAT 4434
MT= 63 (n,n') Level
Legendre Coefficients
44-Ru-99
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.025
0.020
0.015
0.010
0.005
0.000
-0.005
Legendre (CM)
0
50
100
150
200
70
Incident Energy (MeV)
44-Ru-99

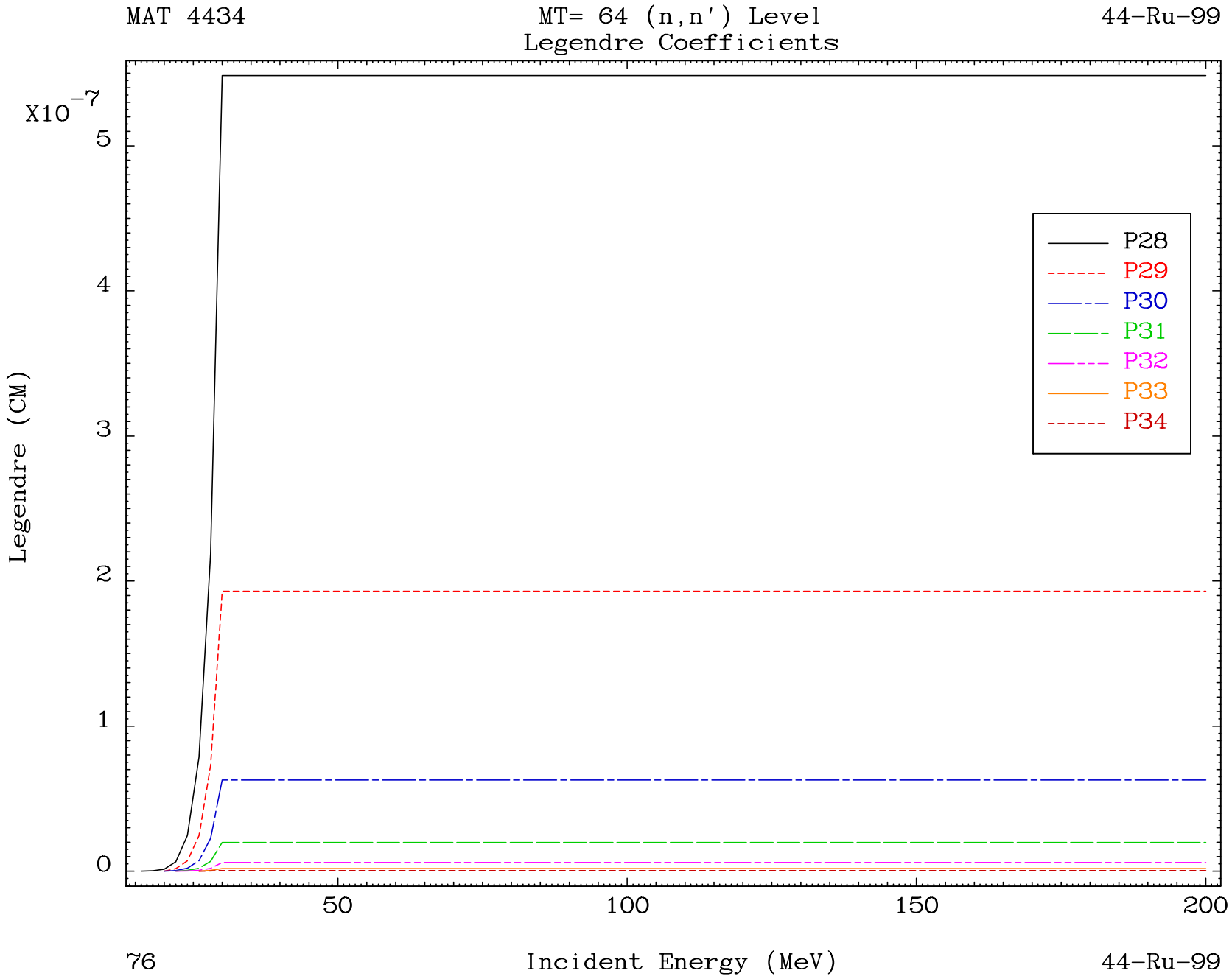

MAT 4434
MT= 63 (n,n') Level
Legendre Coefficients
44-Ru-99
1.5
X10-3
1.0
0.5
0.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
71
Incident Energy (MeV)
44-Ru-99

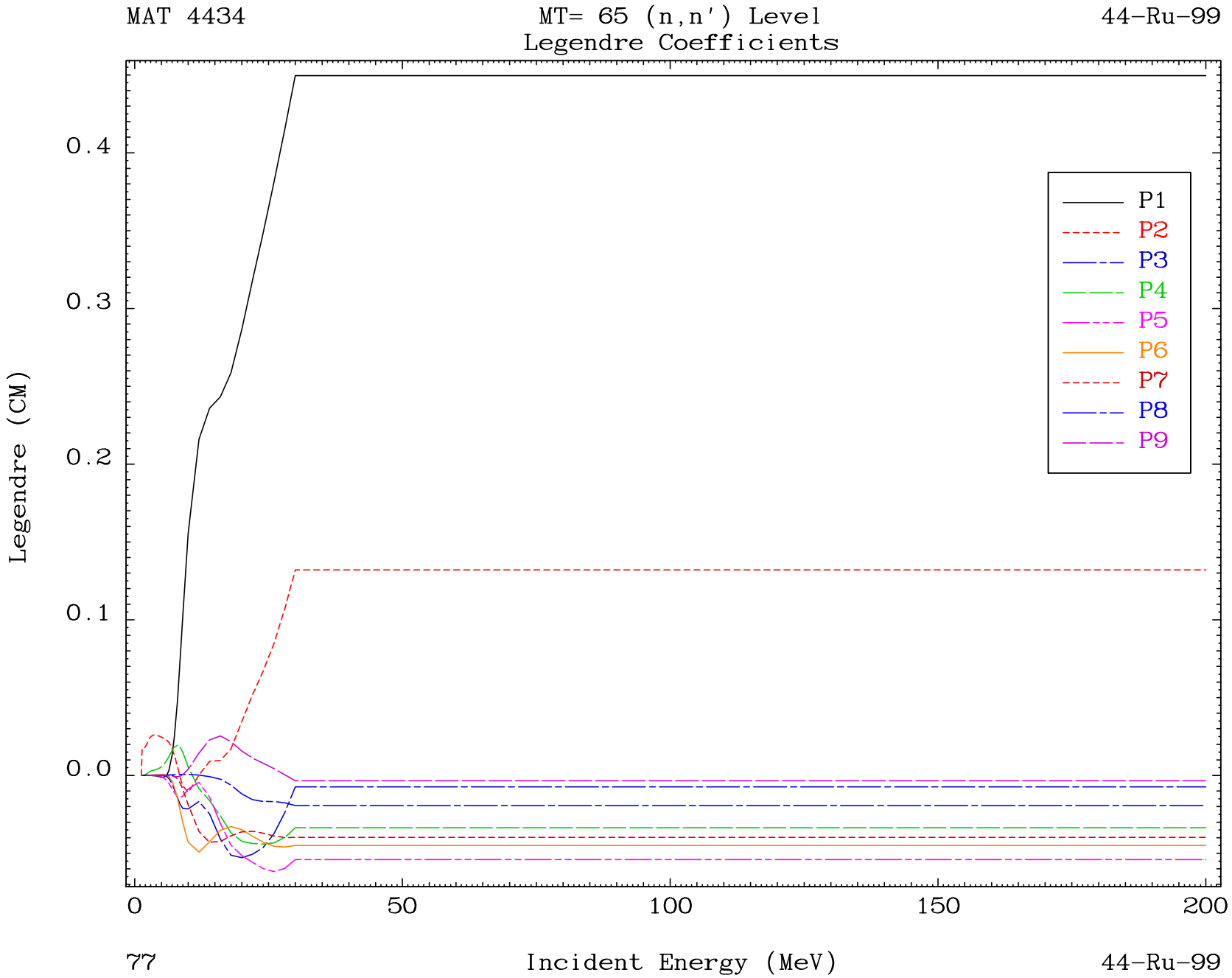

MAT 4434
MT= 63 (n,n') Level
Legendre Coefficients
44-Ru-99
X10^-7
5
4
3
2
1
0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
72
Incident Energy (MeV)
44-Ru-99

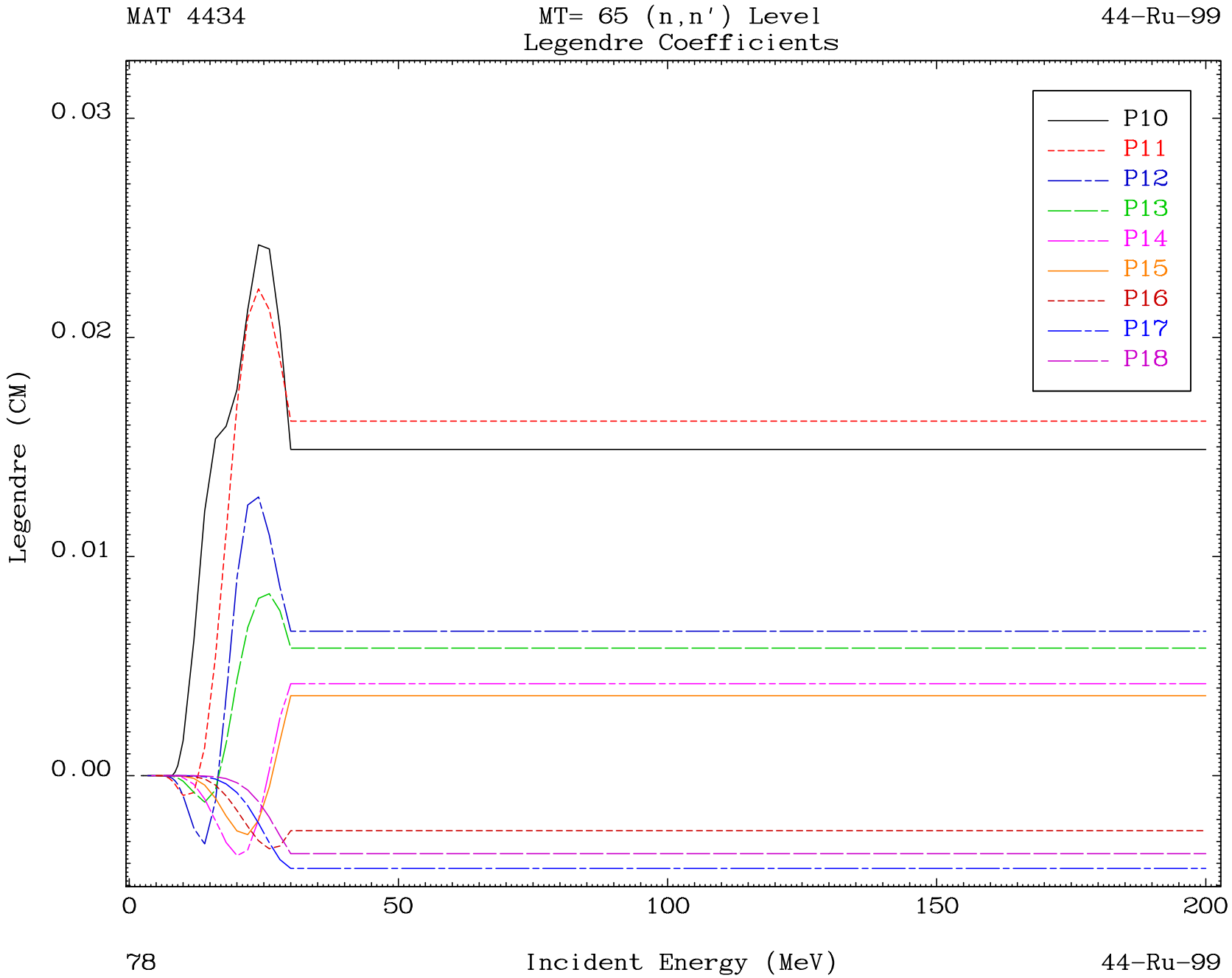

MAT 4434
MT= 64 (n,n') Level
Legendre Coefficients
44-Ru-99
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
73
Incident Energy (MeV)
44-Ru-99

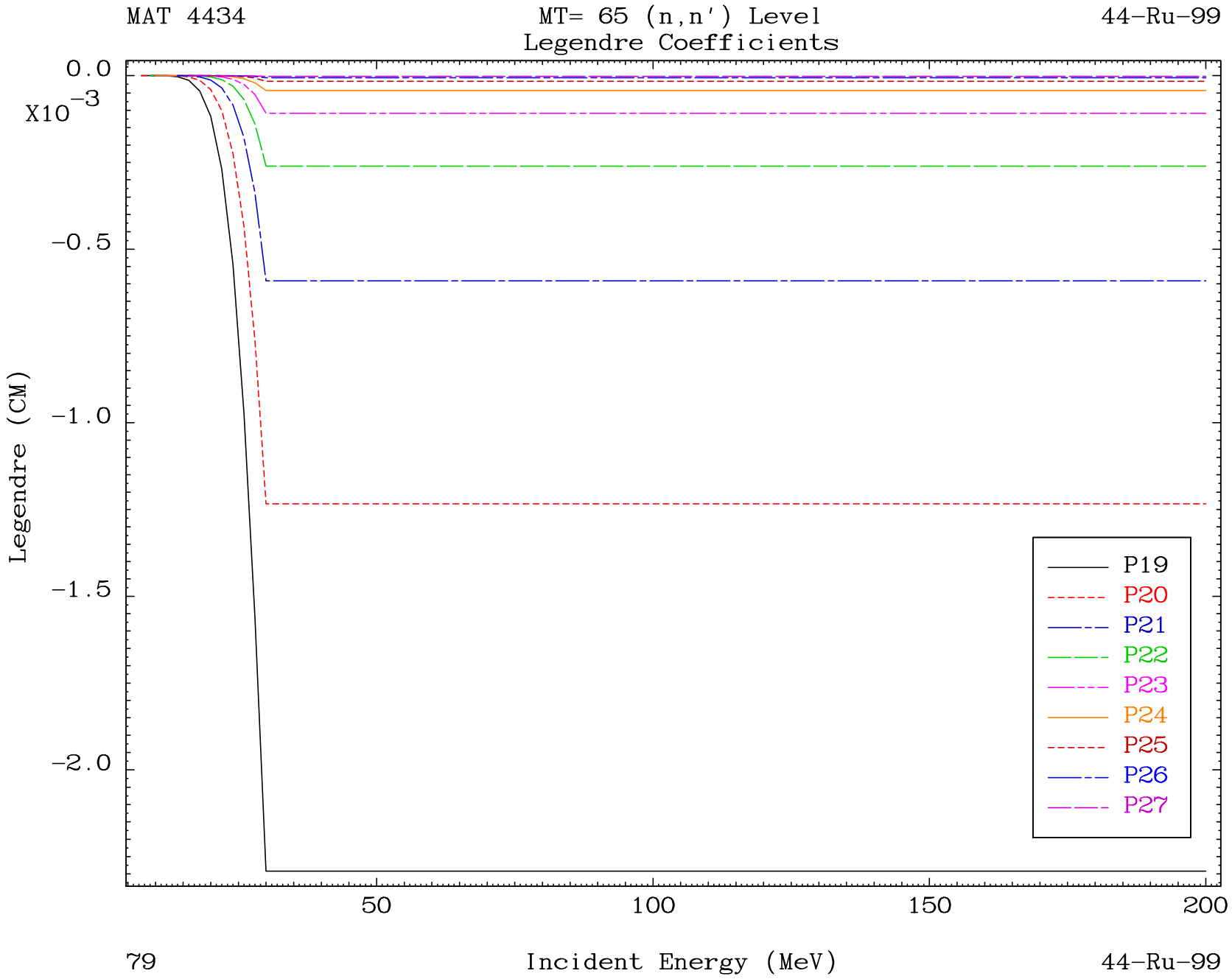

MAT 4434
MT= 64 (n,n') Level
Legendre Coefficients
44-Ru-99
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.025
0.020
0.015
0.010
0.005
0.000
-0.005
Legendre (CM)
0
50
100
150
200
74
Incident Energy (MeV)
44-Ru-99

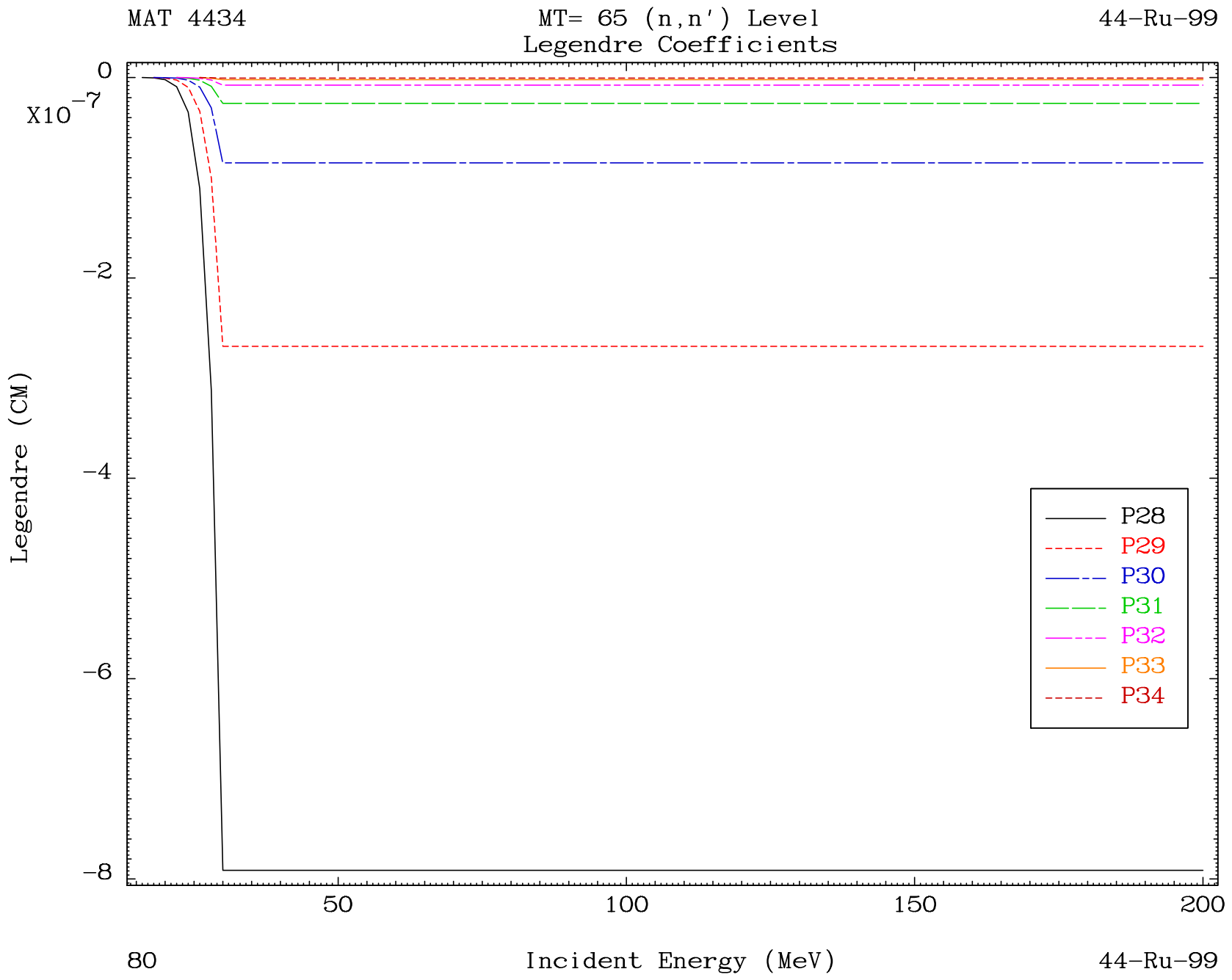

MAT 4434
MT= 64 (n,n') Level
Legendre Coefficients
44-Ru-99
1.5
X10-3
1.0
0.5
0.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
75
Incident Energy (MeV)
44-Ru-99

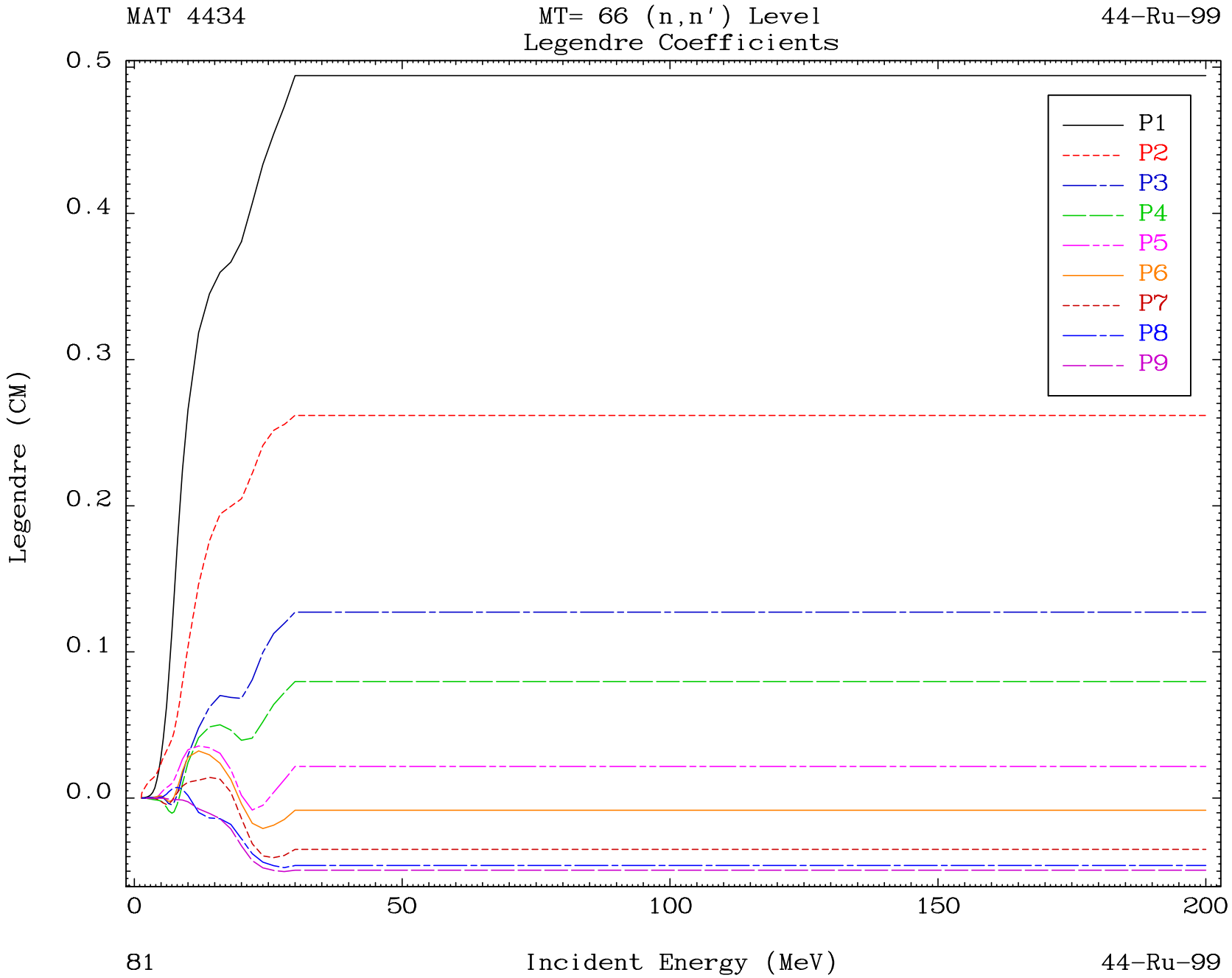

MAT 4434
MT= 64 (n,n') Level
Legendre Coefficients
44-Ru-99
X10^-7
5
4
3
2
1
0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
76
Incident Energy (MeV)
44-Ru-99

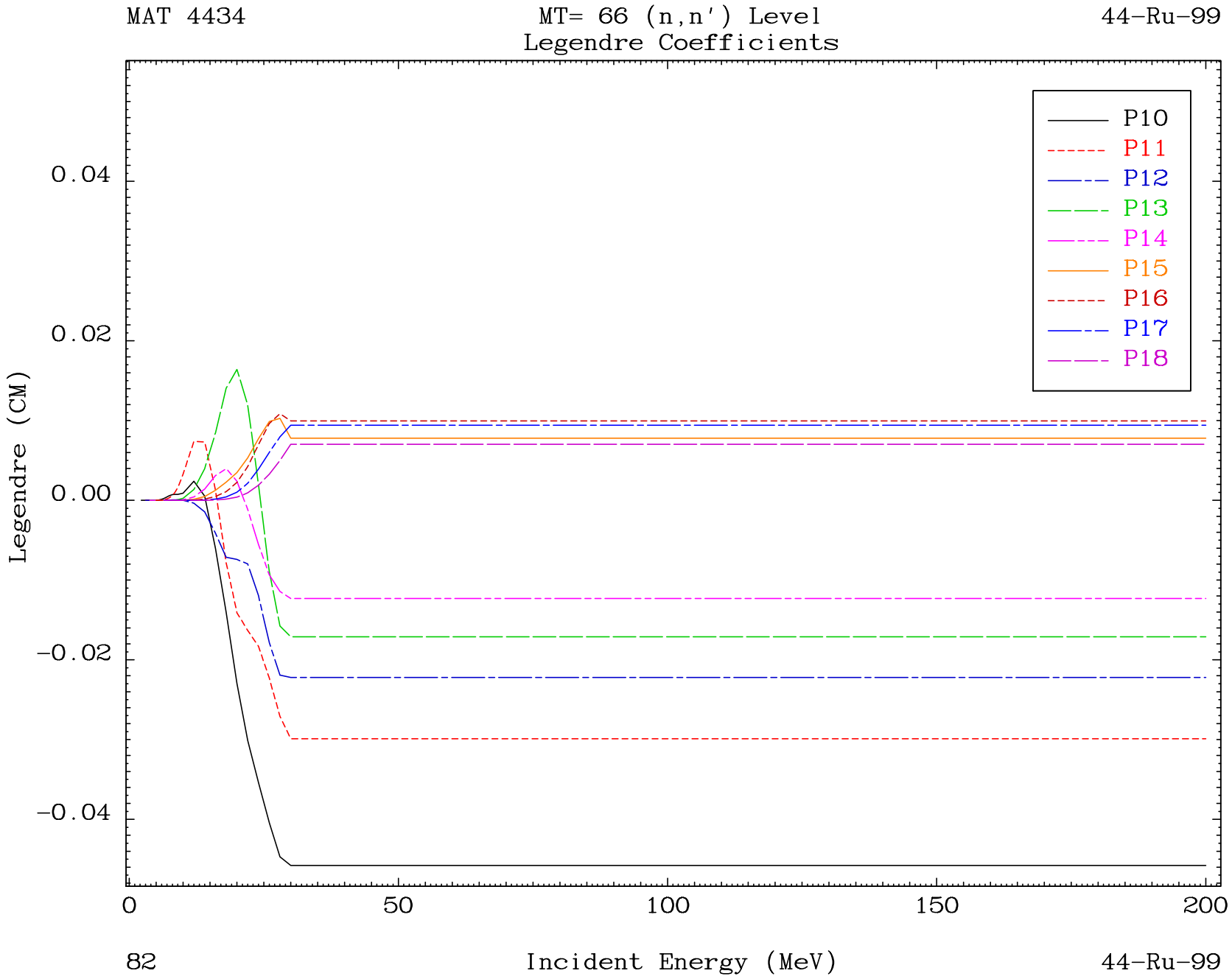

MAT 4434
MT= 65 (n,n') Level
Legendre Coefficients
44-Ru-99
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
77
Incident Energy (MeV)
44-Ru-99

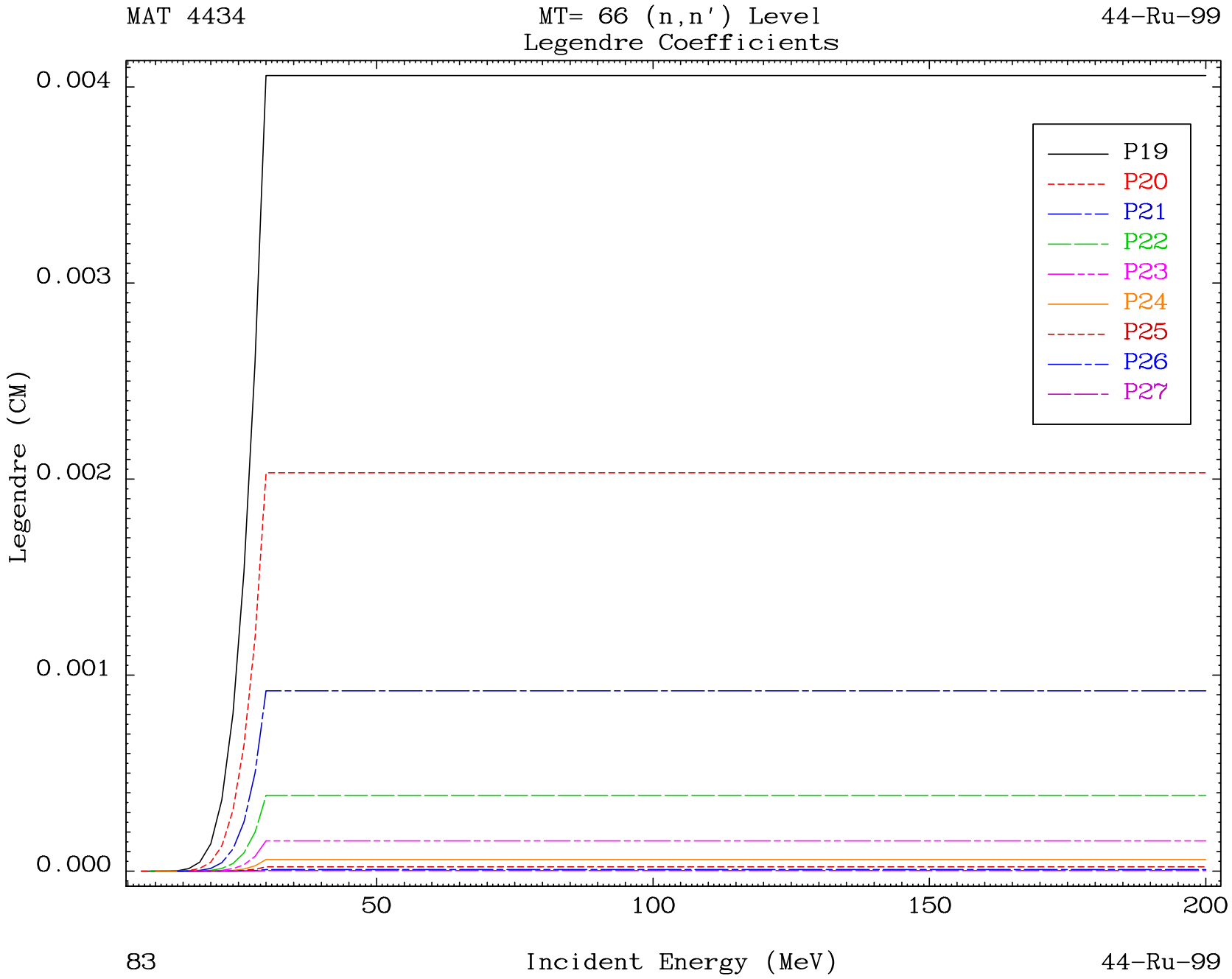

MAT 4434
MT= 65 (n,n') Level
Legendre Coefficients
44-Ru-99
0.03
0.02
0.01
0.00
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
78
Incident Energy (MeV)
44-Ru-99

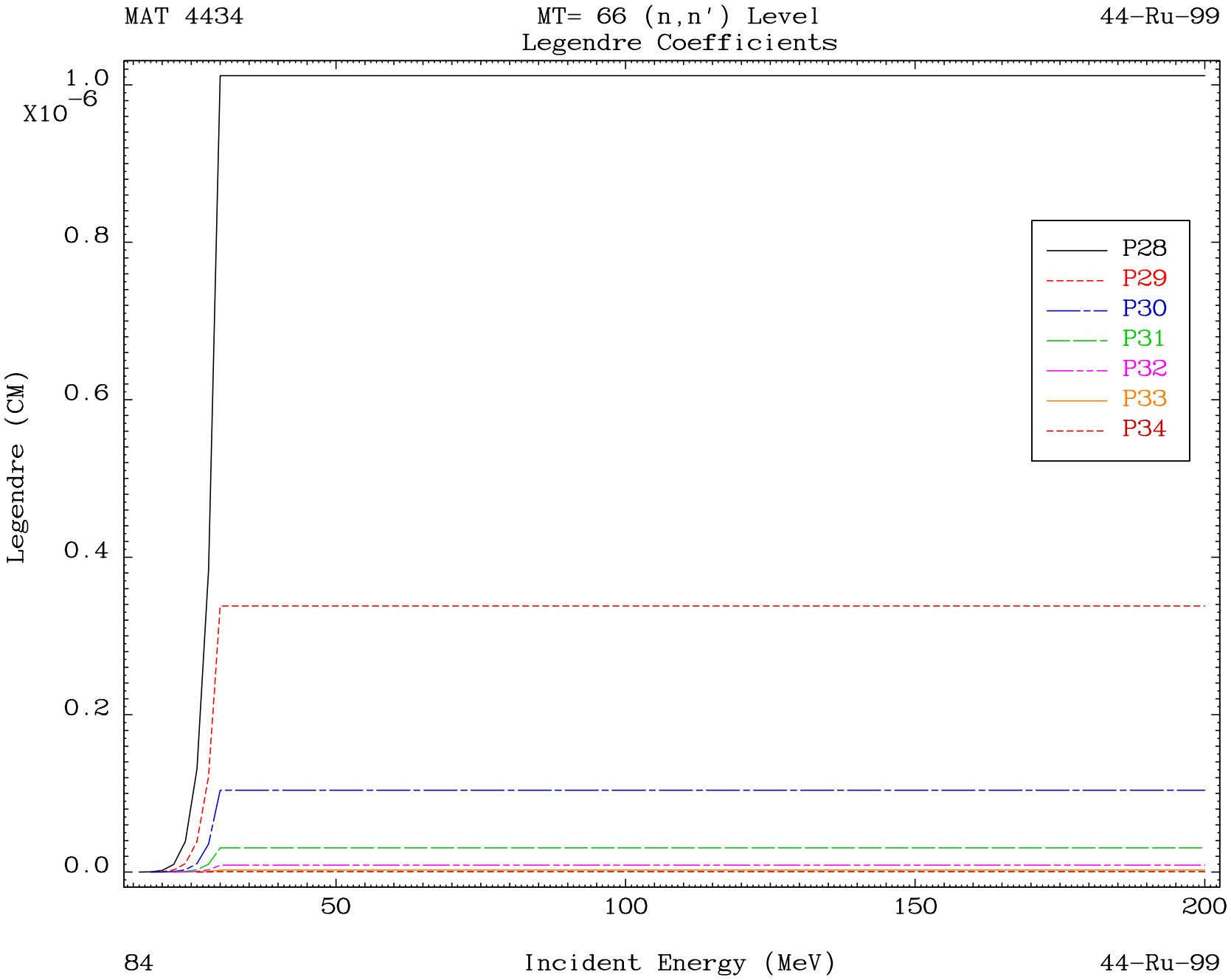

MAT 4434
MT= 65 (n,n') Level
Legendre Coefficients
44-Ru-99
0.0
X10^-3
-0.5
-1.0
-1.5
-2.0
Legendre (CM)
50
100
150
200
79
Incident Energy (MeV)
44-Ru-99
P19
P20
P21
P22
P23
P24
P25
P26
P27

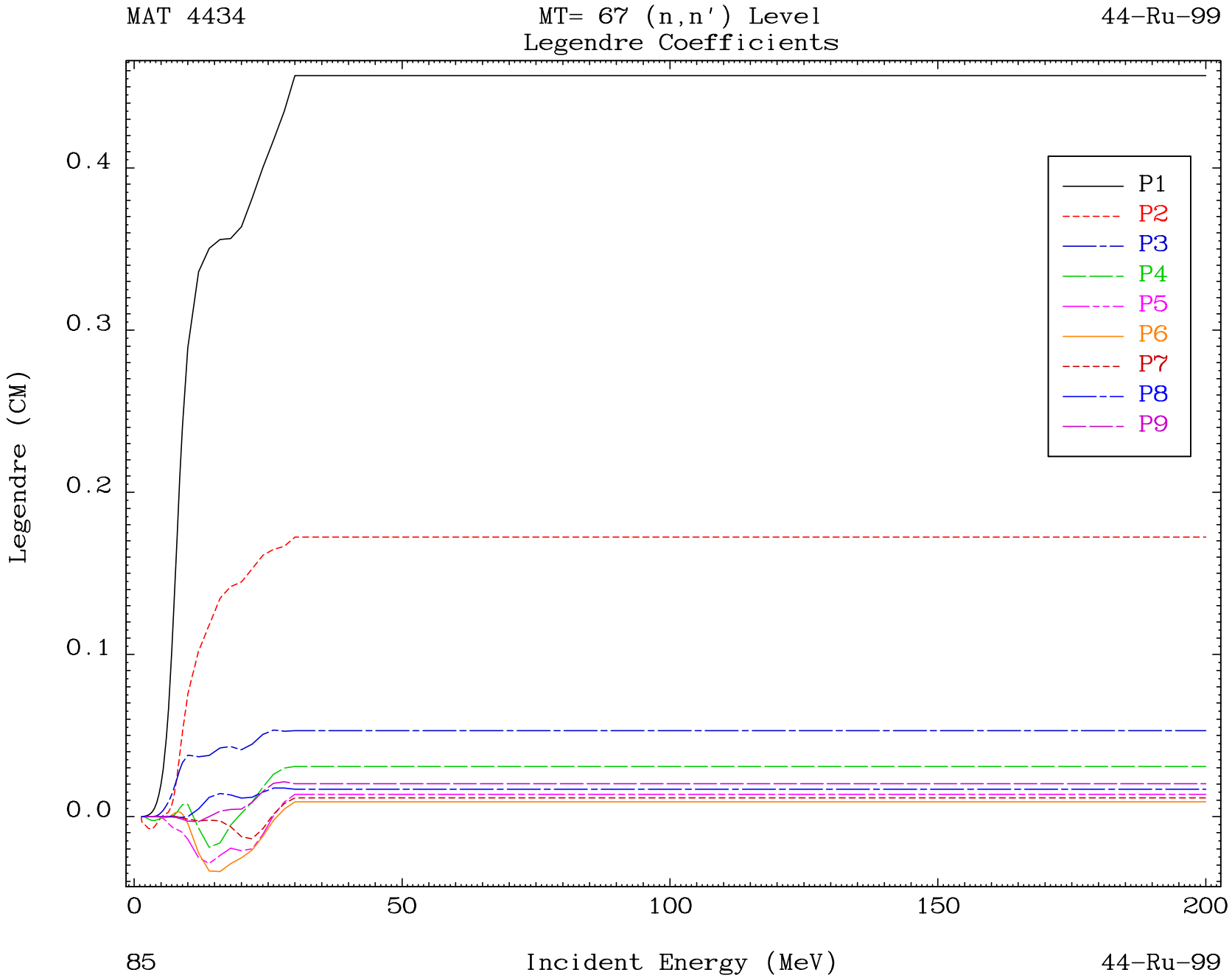

MAT 4434
MT= 65 (n,n') Level
Legendre Coefficients
44-Ru-99
X10^-7
0
-2
-4
-6
-8
Legendre (CM)
50
100
150
200
80
Incident Energy (MeV)
44-Ru-99
P28
P29
P30
P31
P32
P33
P34

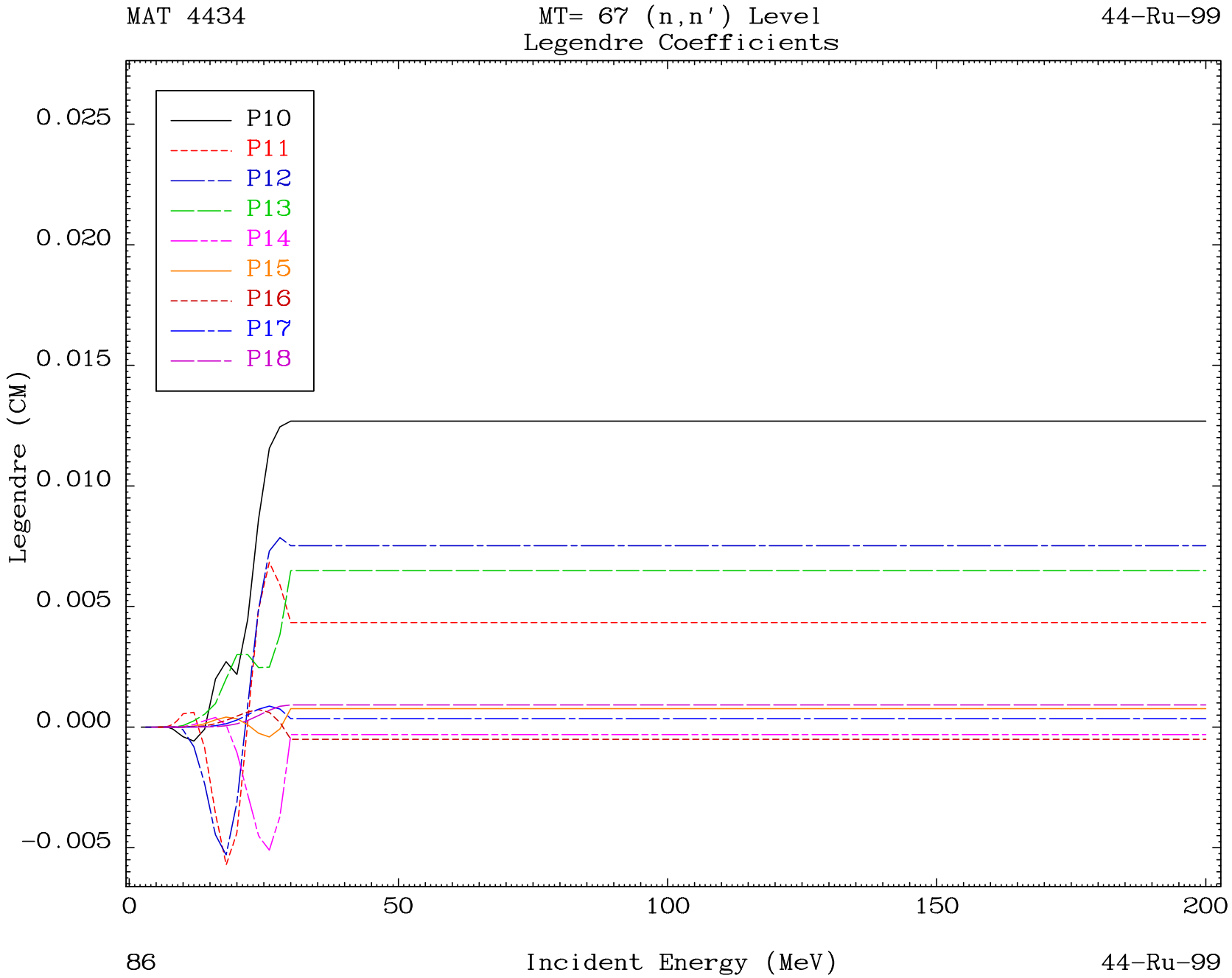

MAT 4434
MT= 66 (n,n') Level
Legendre Coefficients
44-Ru-99
Legendre (CM)
0.5
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
81
Incident Energy (MeV)
44-Ru-99

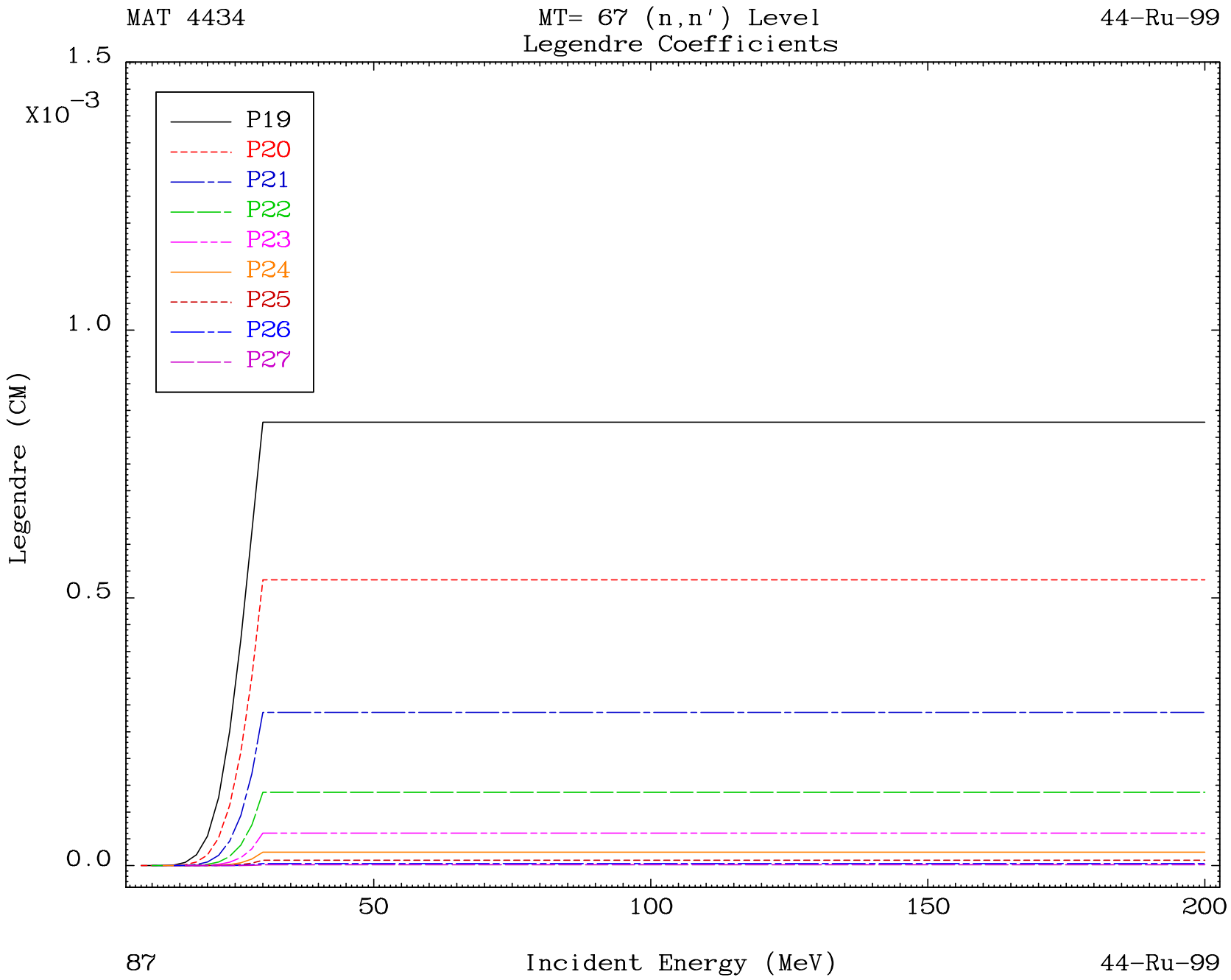

MAT 4434
MT= 66 (n,n') Level
Legendre Coefficients
44-Ru-99
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.04
0.02
0.00
-0.02
-0.04
Legendre (CM)
0
50
100
150
200
82
Incident Energy (MeV)
44-Ru-99

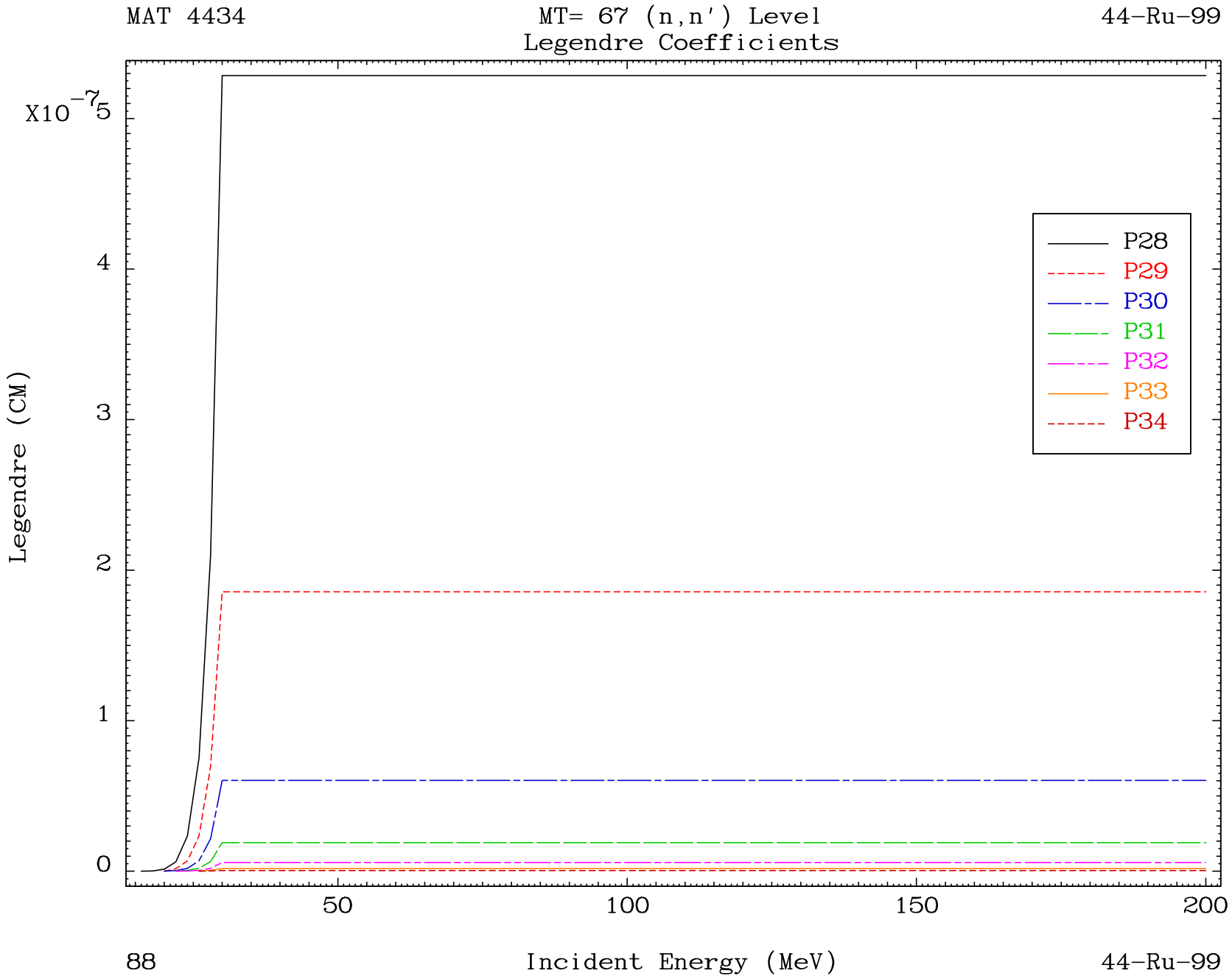

MAT 4434
MT= 66 (n,n') Level
Legendre Coefficients
44-Ru-99
0.004
0.003
0.002
0.001
0.000
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
83
Incident Energy (MeV)
44-Ru-99

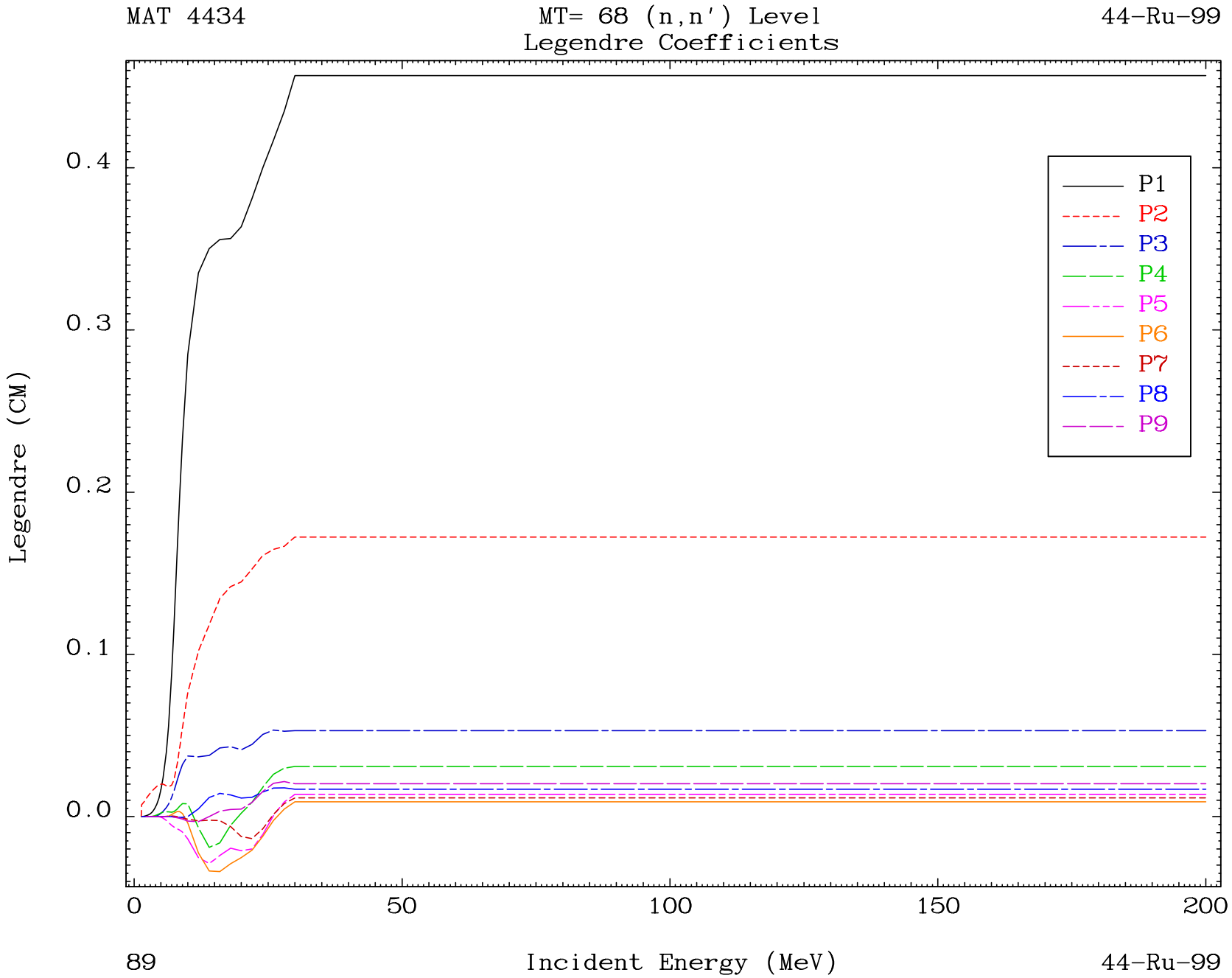

MAT 4434
MT= 66 (n,n') Level
Legendre Coefficients
44-Ru-99
1.0
X10 -6
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
84
Incident Energy (MeV)
44-Ru-99

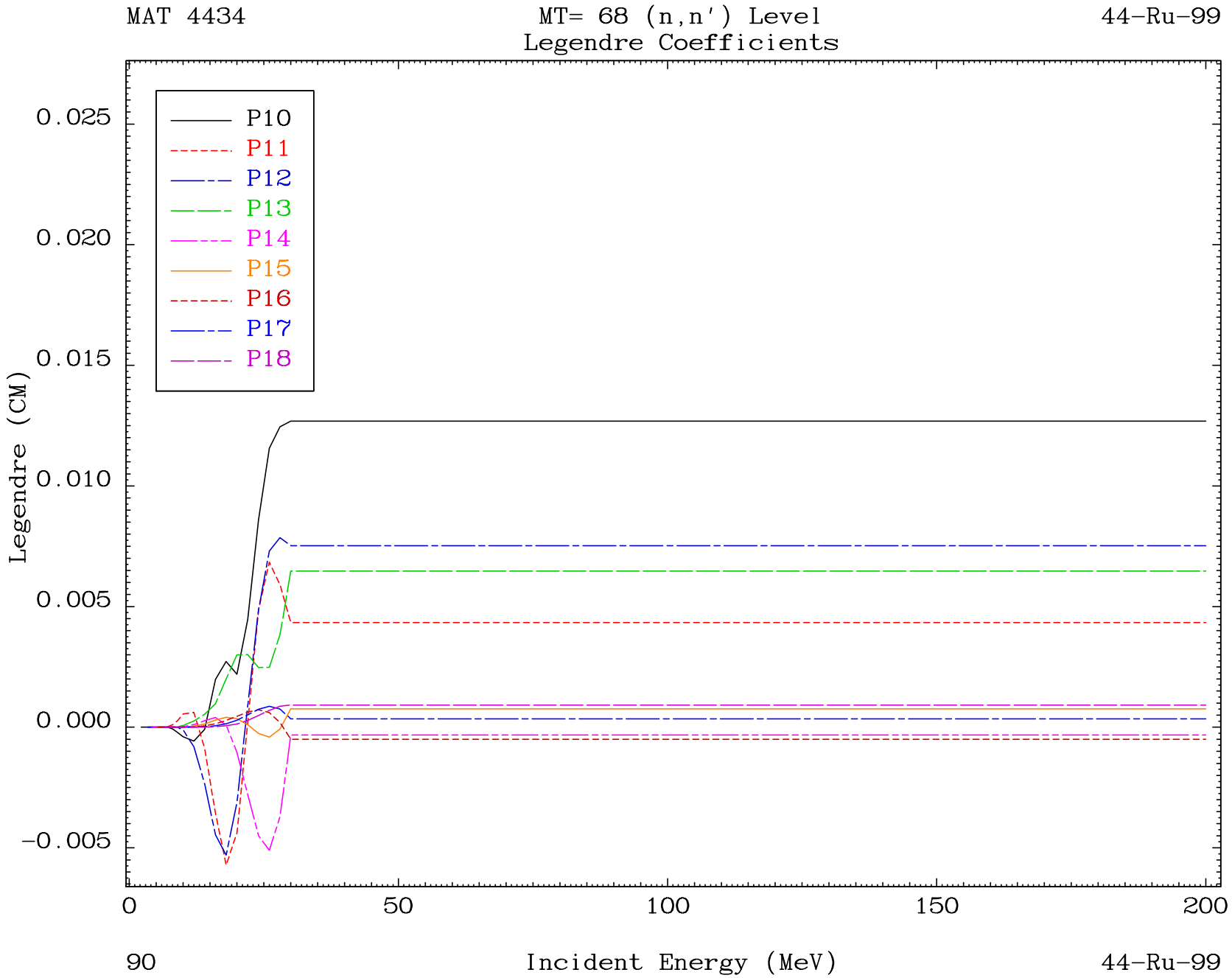

MAT 4434
MT= 67 (n,n') Level
Legendre Coefficients
44-Ru-99
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
85
Incident Energy (MeV)
44-Ru-99

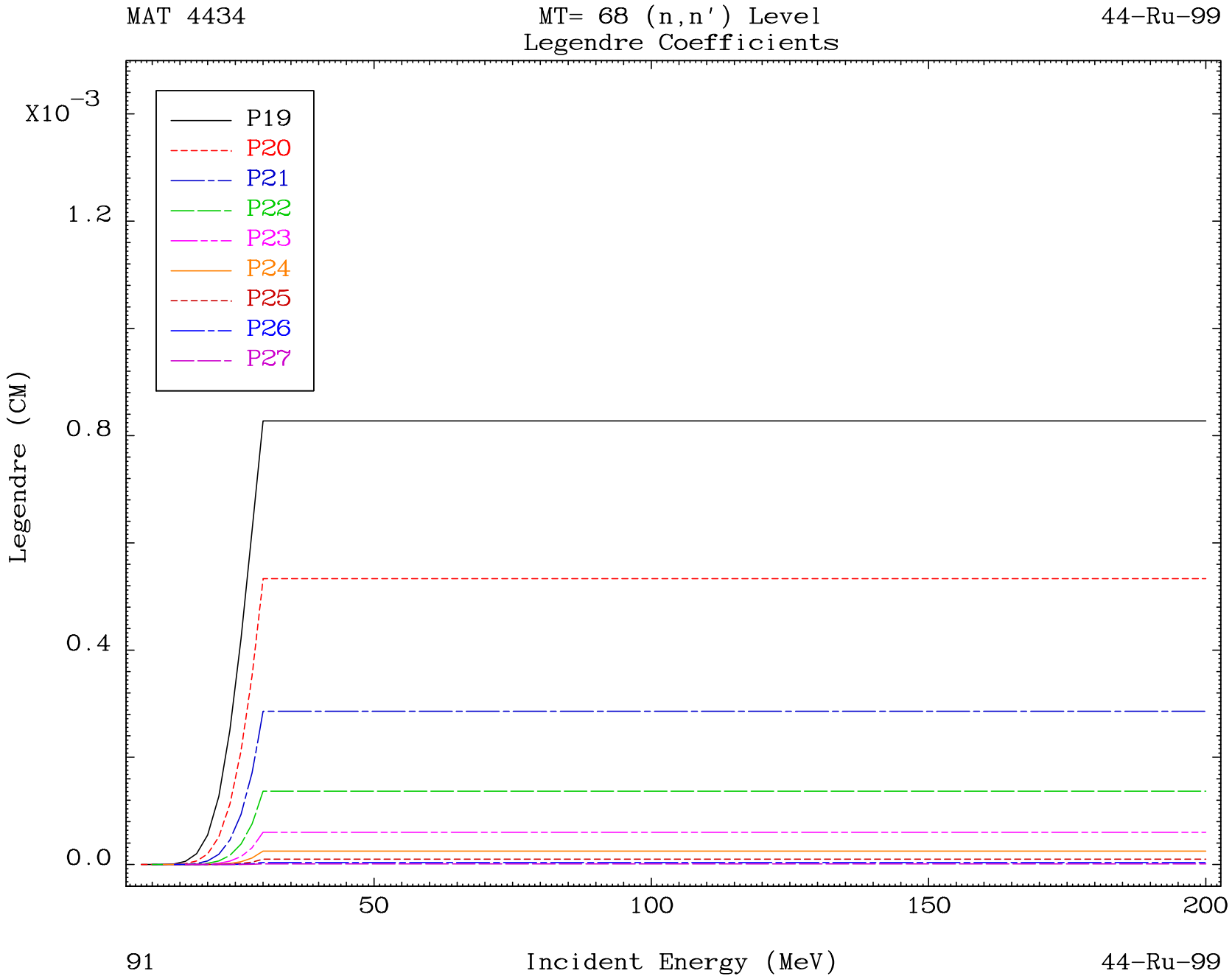

MAT 4434
MT= 67 (n,n') Level
Legendre Coefficients
44-Ru-99
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.025
0.020
0.015
0.010
0.005
0.000
-0.005
Legendre (CM)
0
50
100
150
200
86
Incident Energy (MeV)
44-Ru-99

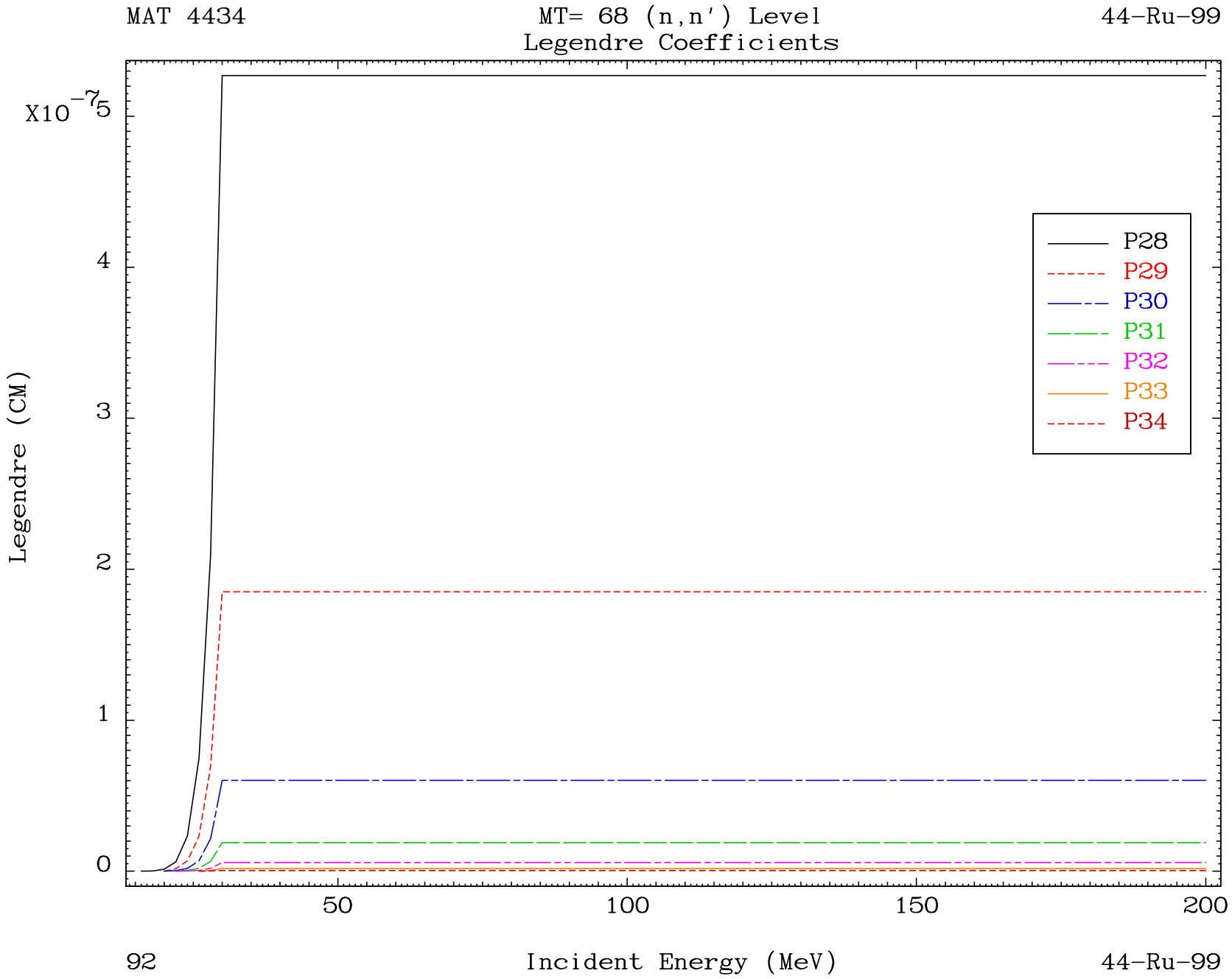

MAT 4434
MT= 67 (n,n') Level
Legendre Coefficients
44-Ru-99
1.5
X10-3
1.0
0.5
0.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
87
Incident Energy (MeV)
44-Ru-99

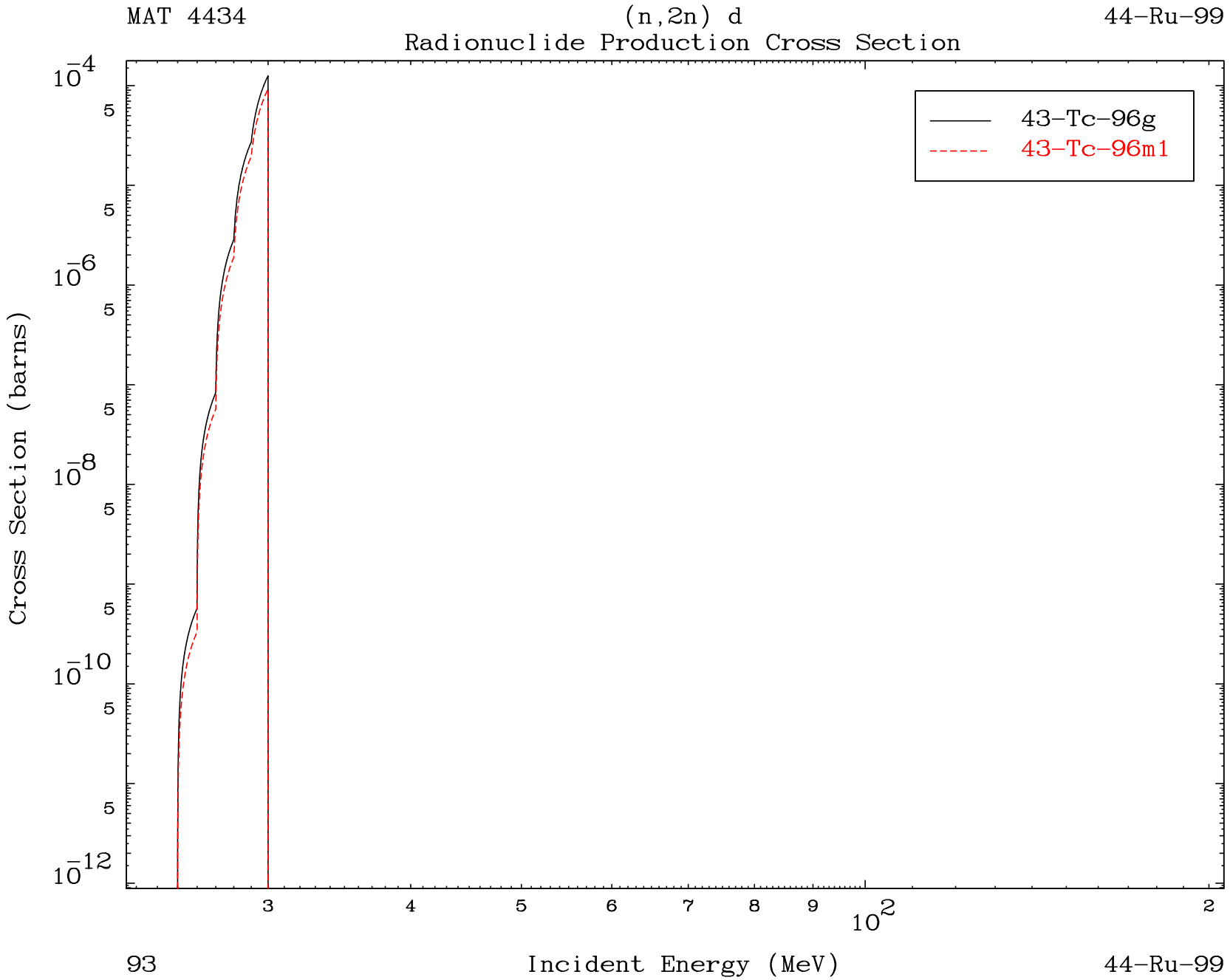

MAT 4434
MT= 67 (n,n') Level
Legendre Coefficients
44-Ru-99
X10^-7
5
4
3
2
1
0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
88
Incident Energy (MeV)
44-Ru-99

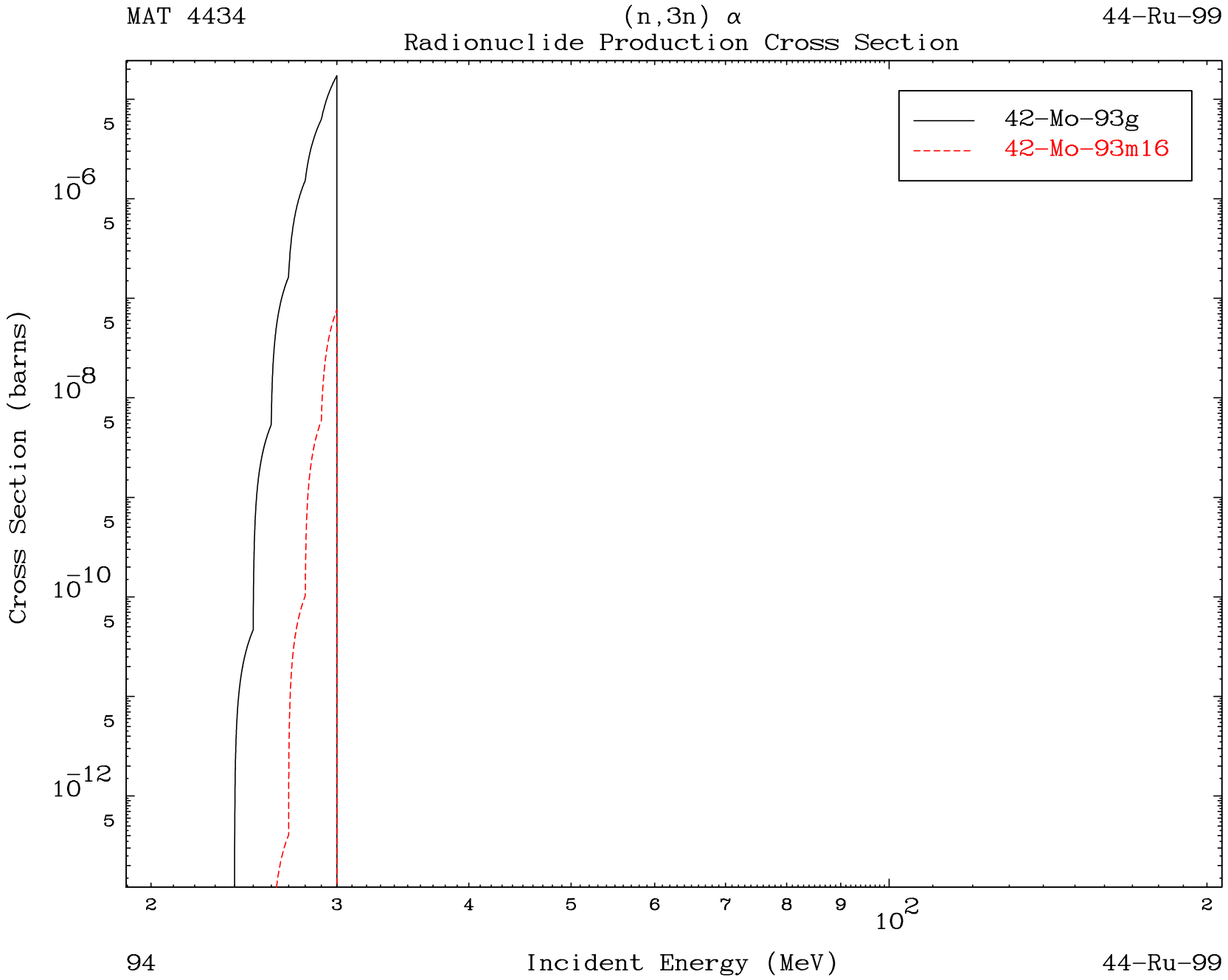

MAT 4434
MT= 68 (n,n') Level
Legendre Coefficients
44-Ru-99
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
89
Incident Energy (MeV)
44-Ru-99

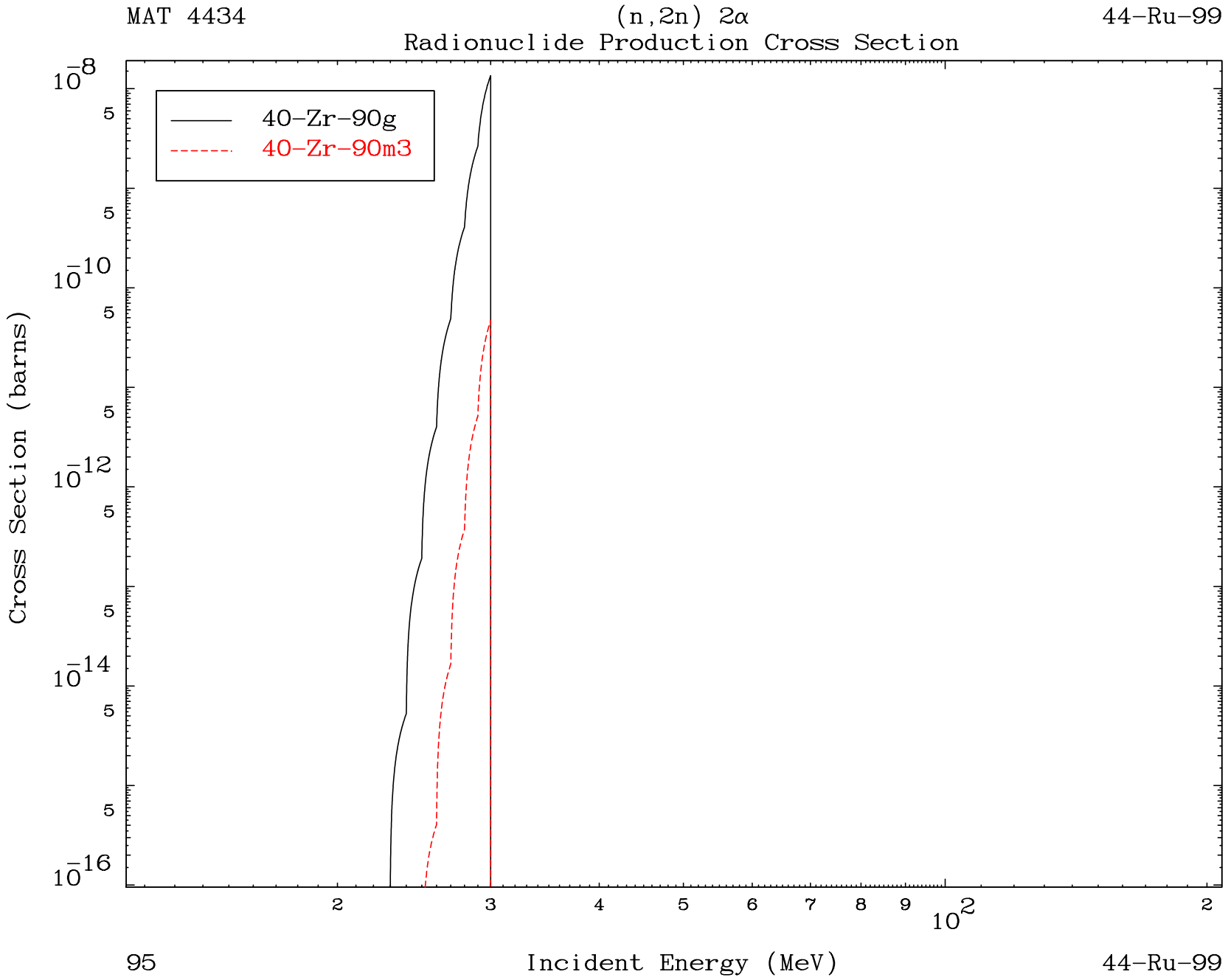

MAT 4434
MT= 68 (n,n') Level
Legendre Coefficients
44-Ru-99
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.025
0.020
0.015
0.010
0.005
0.000
-0.005
Legendre (CM)
0
50
100
150
200
90
Incident Energy (MeV)
44-Ru-99

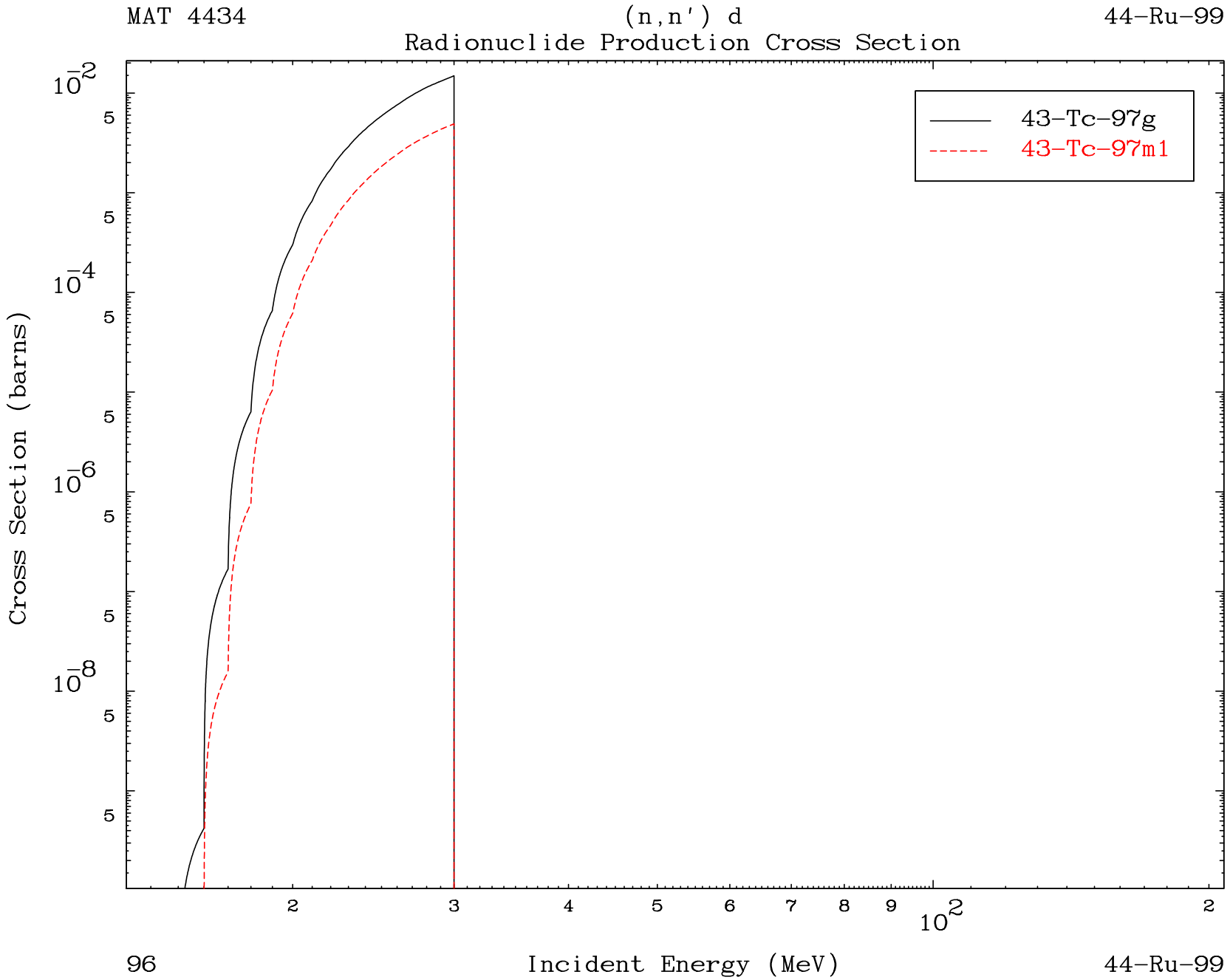

MAT 4434
MT= 68 (n,n') Level
Legendre Coefficients
44-Ru-99
X10-3
1.2
0.8
0.4
0.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
91
Incident Energy (MeV)
44-Ru-99

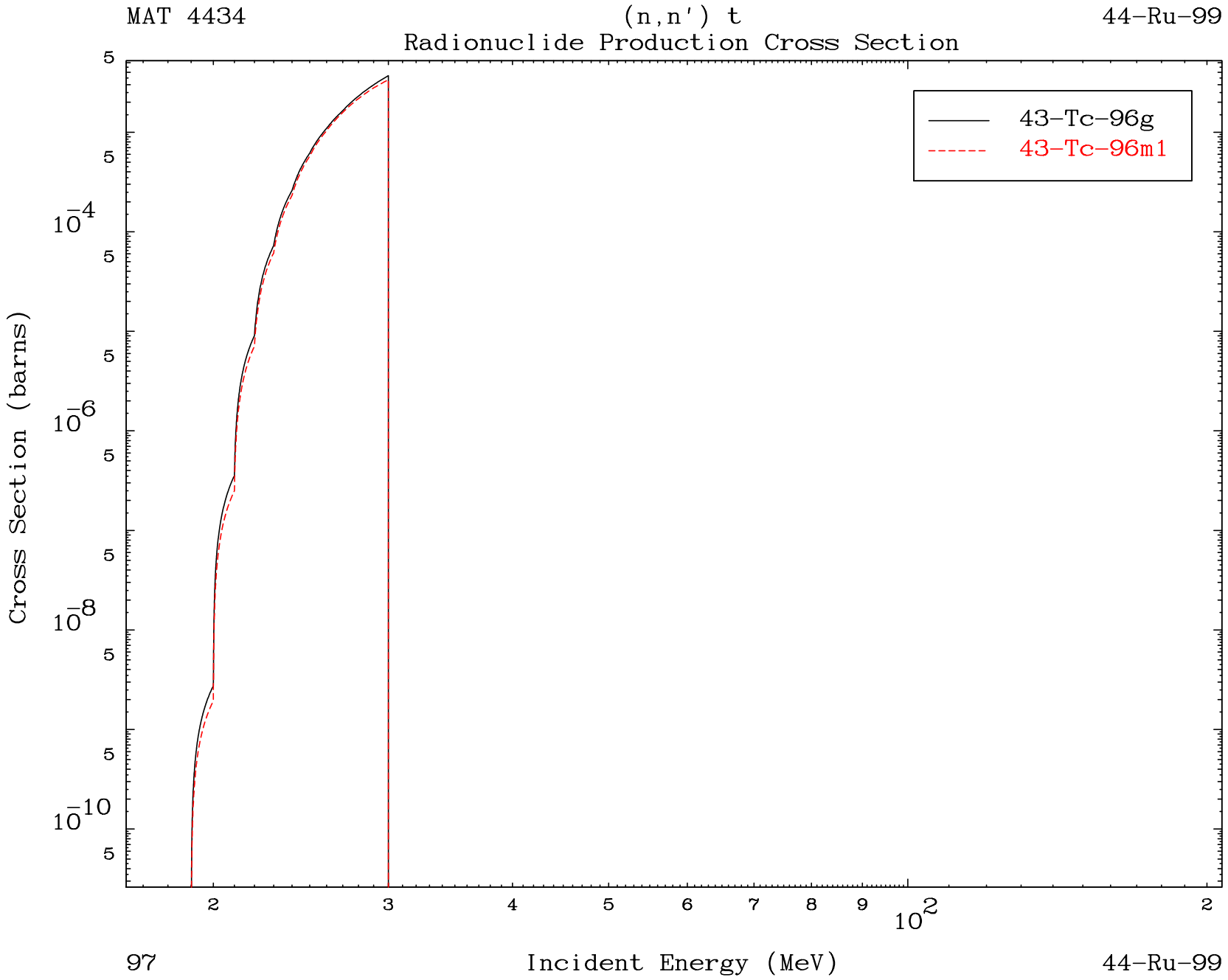

MAT 4434
MT= 68 (n,n') Level
Legendre Coefficients
44-Ru-99
X10^-7
5
4
3
2
1
0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
50
100
150
200
92
Incident Energy (MeV)
44-Ru-99

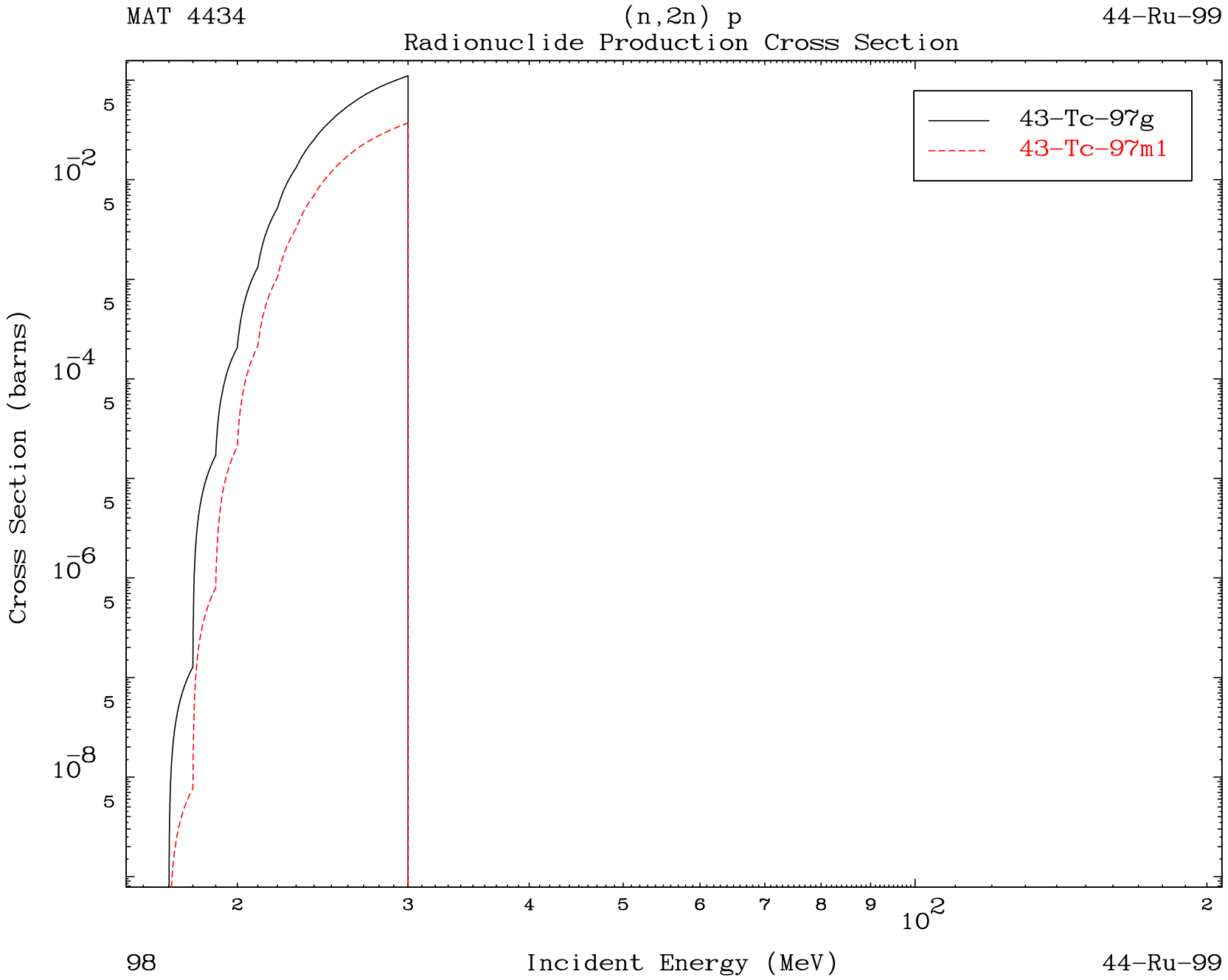

MAT 4434
(n,2n) d
44-Ru-99
Radionuclide Production Cross Section
43-Tc-96g
43-Tc-96m1
Cross Section (barns)
Incident Energy (MeV)
93
44-Ru-99

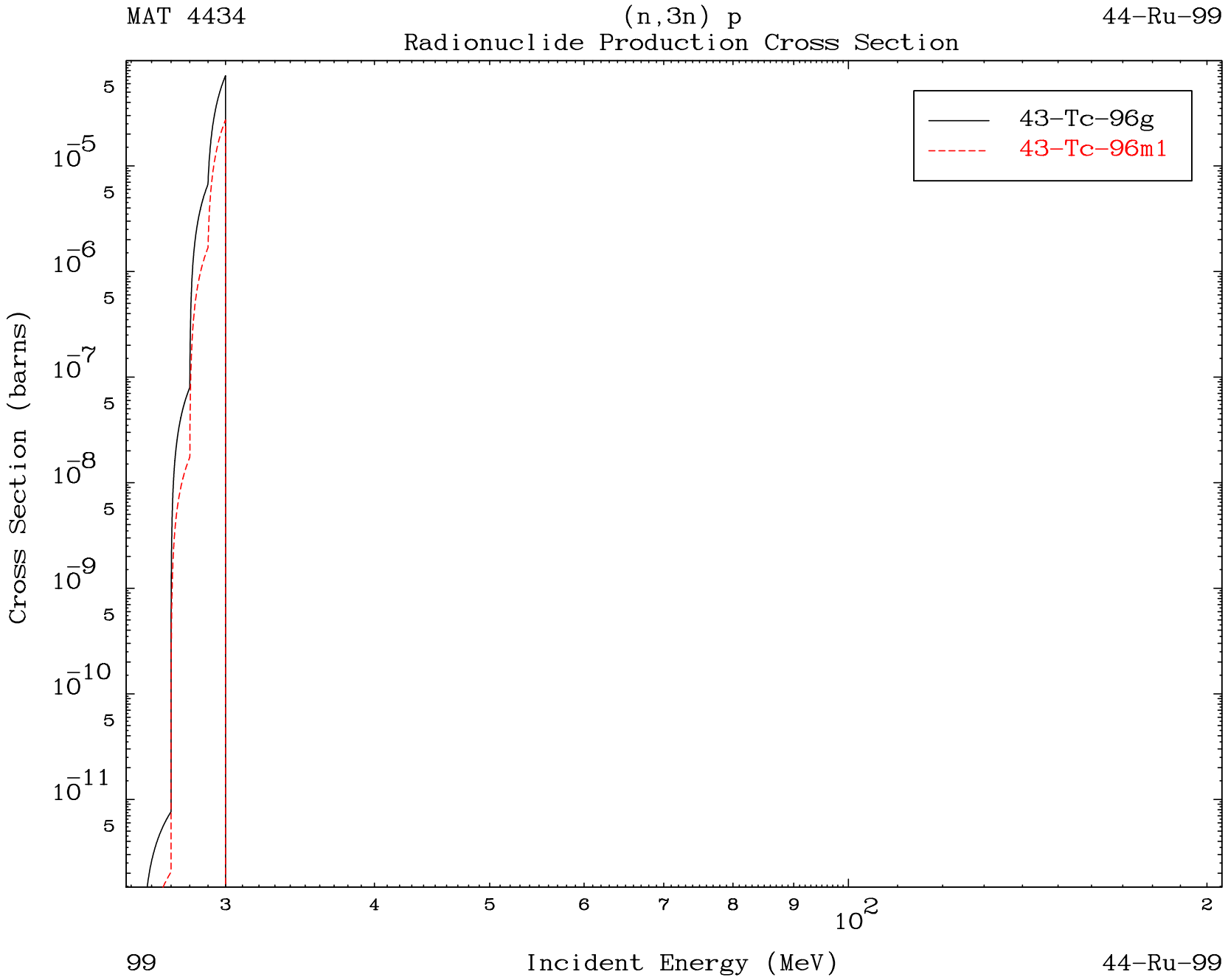

MAT 4434
(n,3n) α
44-Ru-99
Radionuclide Production Cross Section
42-Mo-93g
42-Mo-93m16
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
2
3
4
6
7
8
9
10^2
94
Incident Energy (MeV)
44-Ru-99

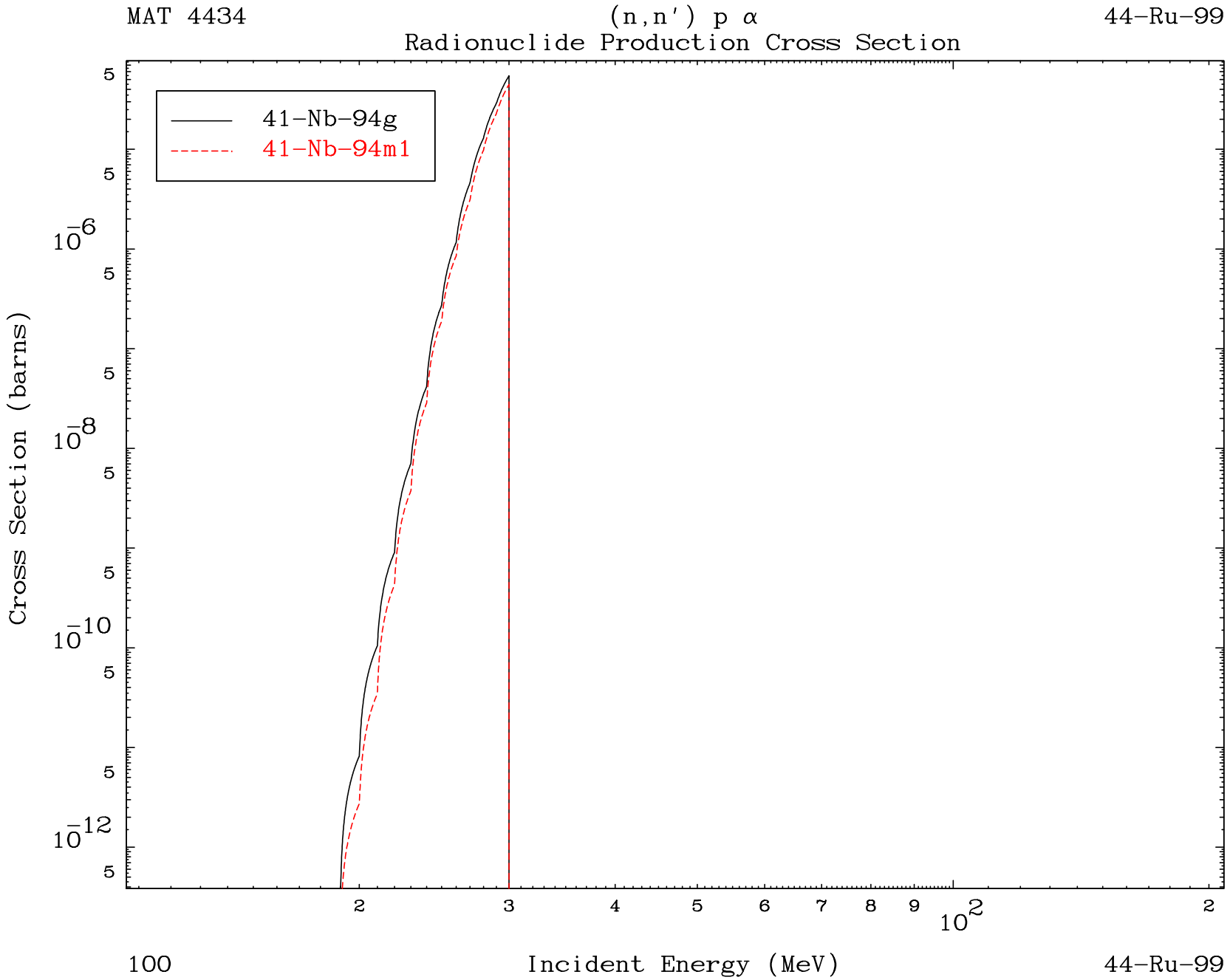

MAT 4434
(n,2n) 2α
44-Ru-99
Radionuclide Production Cross Section
40-Zr-90g
40-Zr-90m3
Cross Section (barns)
10^-8
10^-10
10^-12
10^-14
10^-16
2
3
4
5
6
7
8
9
10^2
2
95
Incident Energy (MeV)
44-Ru-99

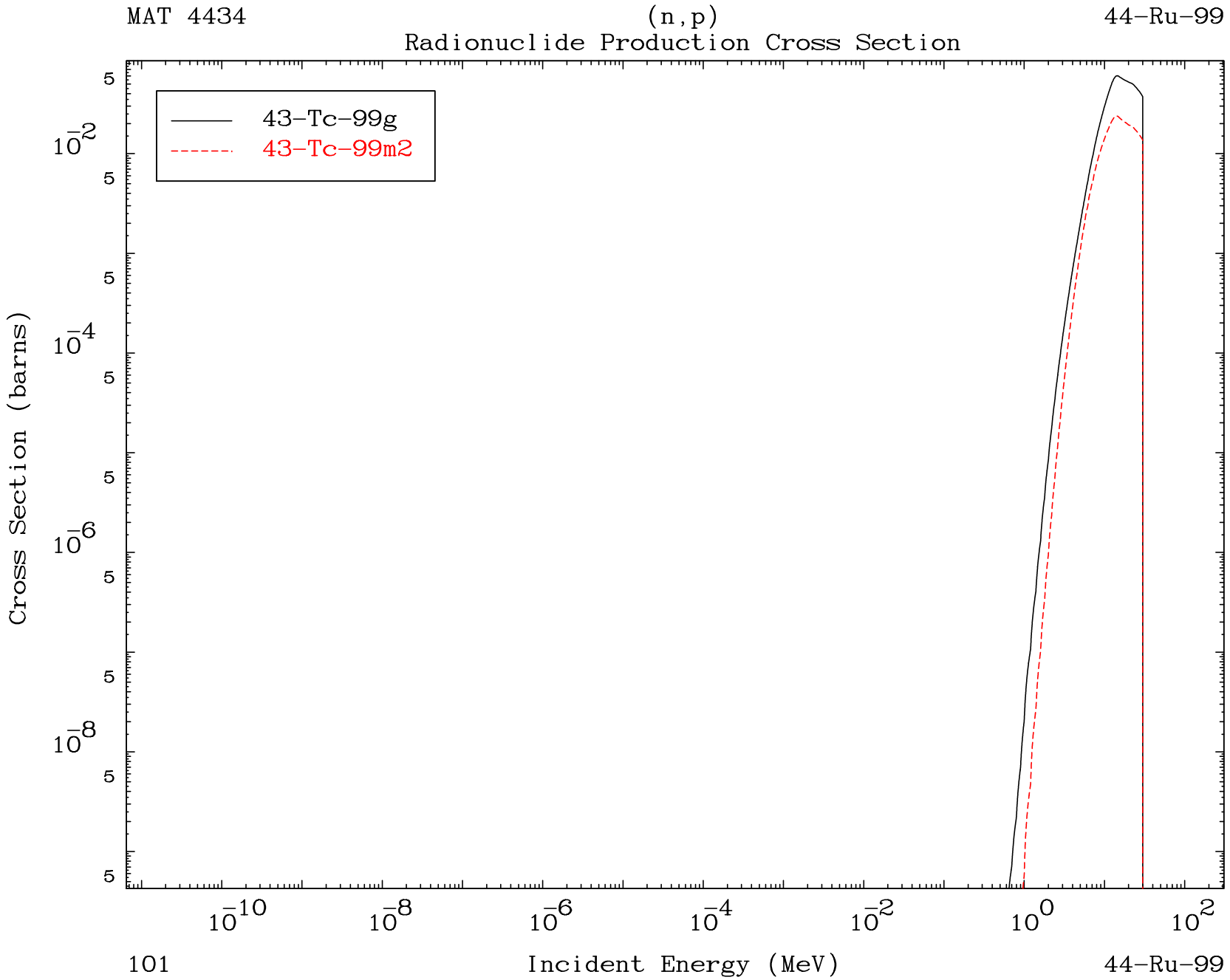

MAT 4434
(n,n') d
44-Ru-99
Radionuclide Production Cross Section
43-Tc-97g
43-Tc-97m1
Cross Section (barns)
Incident Energy (MeV)
96
44-Ru-99

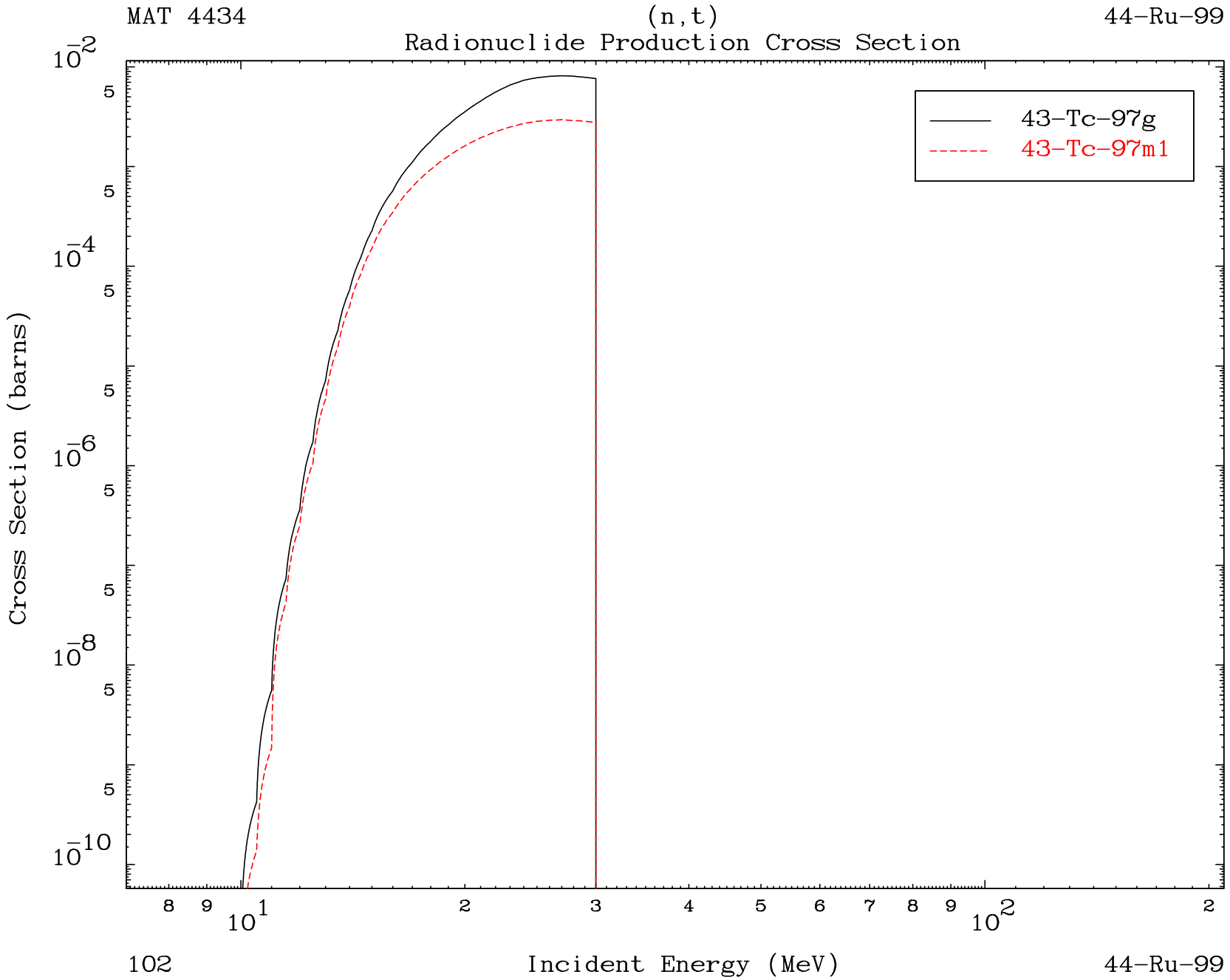

MAT 4434
(n,n') t
44-Ru-99
Radionuclide Production Cross Section
43-Tc-96g
43-Tc-96m1
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
2
3
4
5
6
7
8
9
10^2
2
97
Incident Energy (MeV)
44-Ru-99

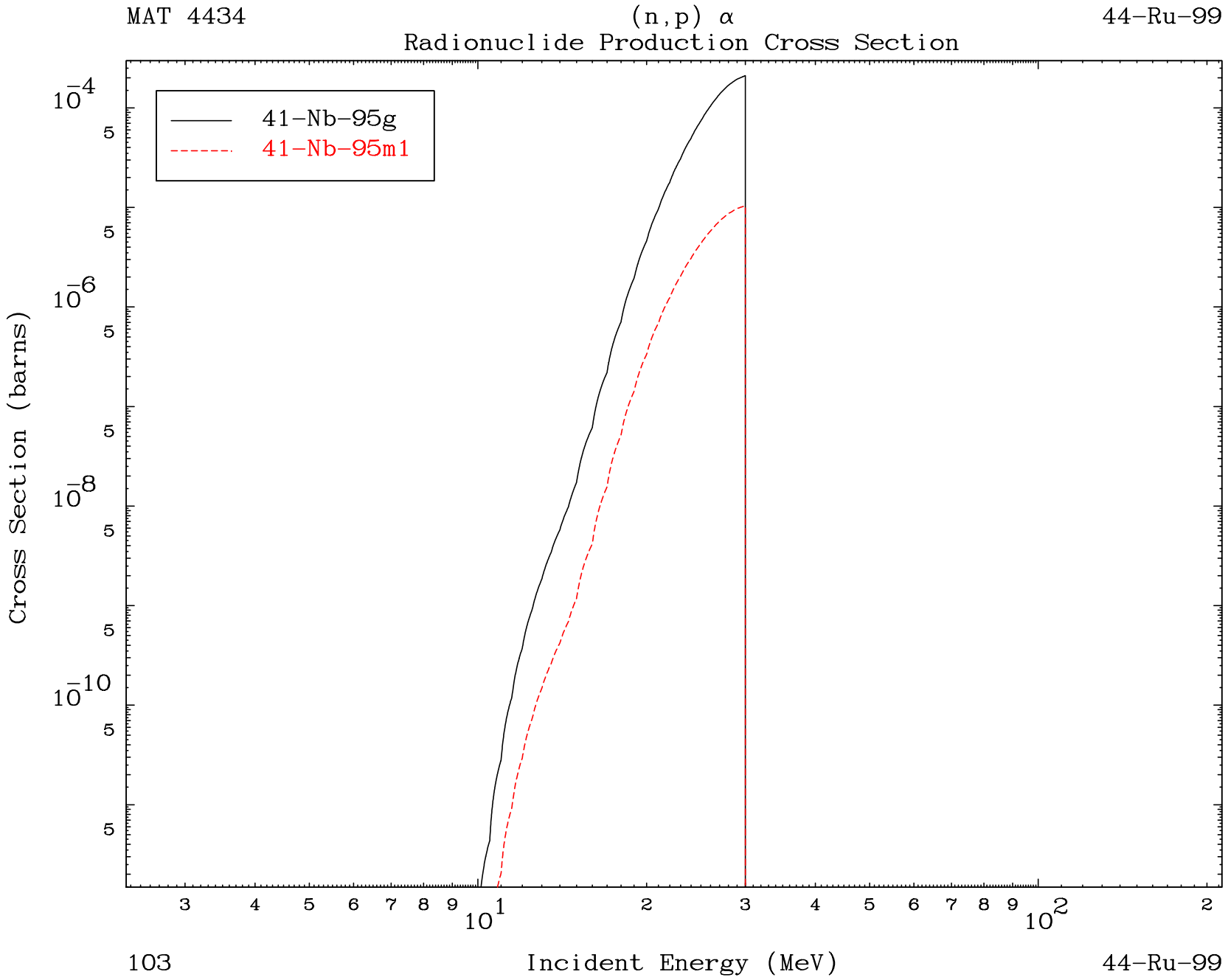

MAT 4434
(n,2n) p
44-Ru-99
Radionuclide Production Cross Section
43-Tc-97g
43-Tc-97m1
Cross Section (barns)
10-2
10-4
10-6
10-8
2
3
4
5
6
7
8
9
10 2
98
Incident Energy (MeV)
44-Ru-99

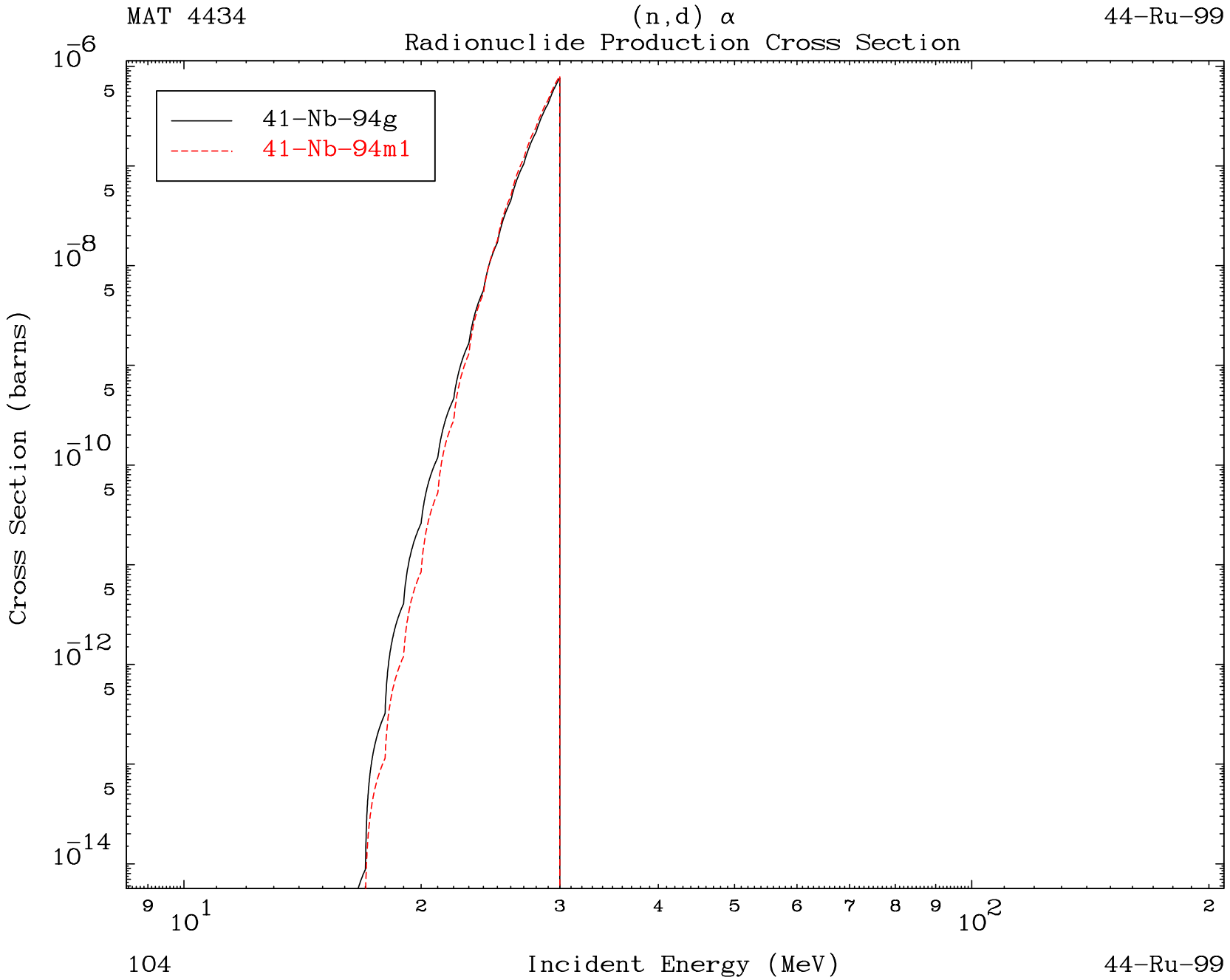

MAT 4434
(n,3n) p
44-Ru-99
Radionuclide Production Cross Section
43-Tc-96g
43-Tc-96m1
Cross Section (barns)
Incident Energy (MeV)
99
44-Ru-99


MAT 4434
(n,n') p α
44-Ru-99
Radionuclide Production Cross Section
41-Nb-94g
41-Nb-94m1
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
2
3
4
6
7
8
9
10^2
100
Incident Energy (MeV)
44-Ru-99


MAT 4434
(n,p)
44-Ru-99
Radionuclide Production Cross Section
43-Tc-99g
43-Tc-99m2
Cross Section (barns)
Incident Energy (MeV)
101
44-Ru-99


MAT 4434
(n,t)
44-Ru-99
Radionuclide Production Cross Section
43-Tc-97g
43-Tc-97m1
Cross Section (barns)
Incident Energy (MeV)
102
44-Ru-99


MAT 4434
(n,p) α
44-Ru-99
Radionuclide Production Cross Section
41-Nb-95g
41-Nb-95m1
Cross Section (barns)
Incident Energy (MeV)
103
44-Ru-99


MAT 4434
(n,d) α
44-Ru-99
Radionuclide Production Cross Section
41-Nb-94g
41-Nb-94m1
Cross Section (barns)
Incident Energy (MeV)
104
44-Ru-99