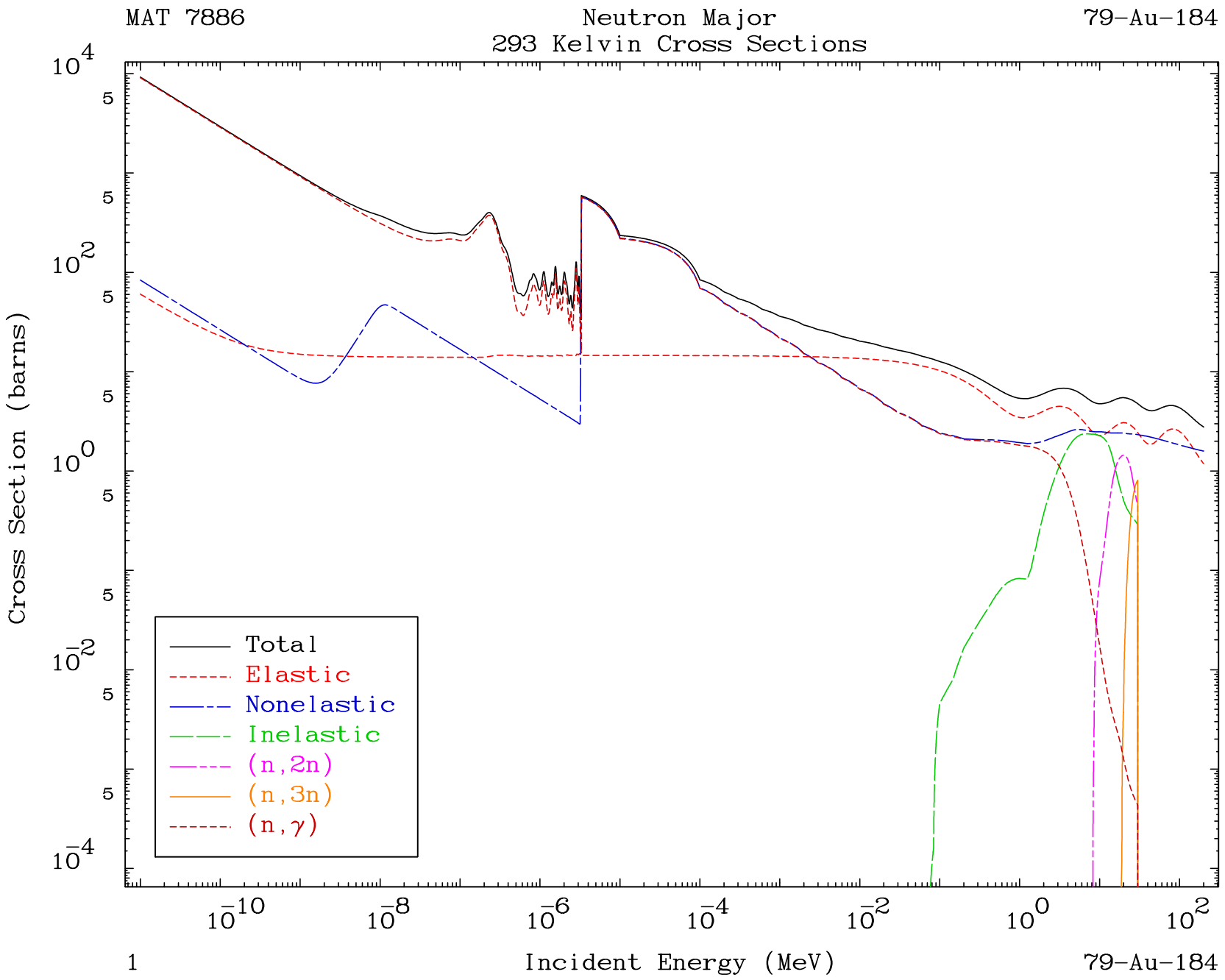
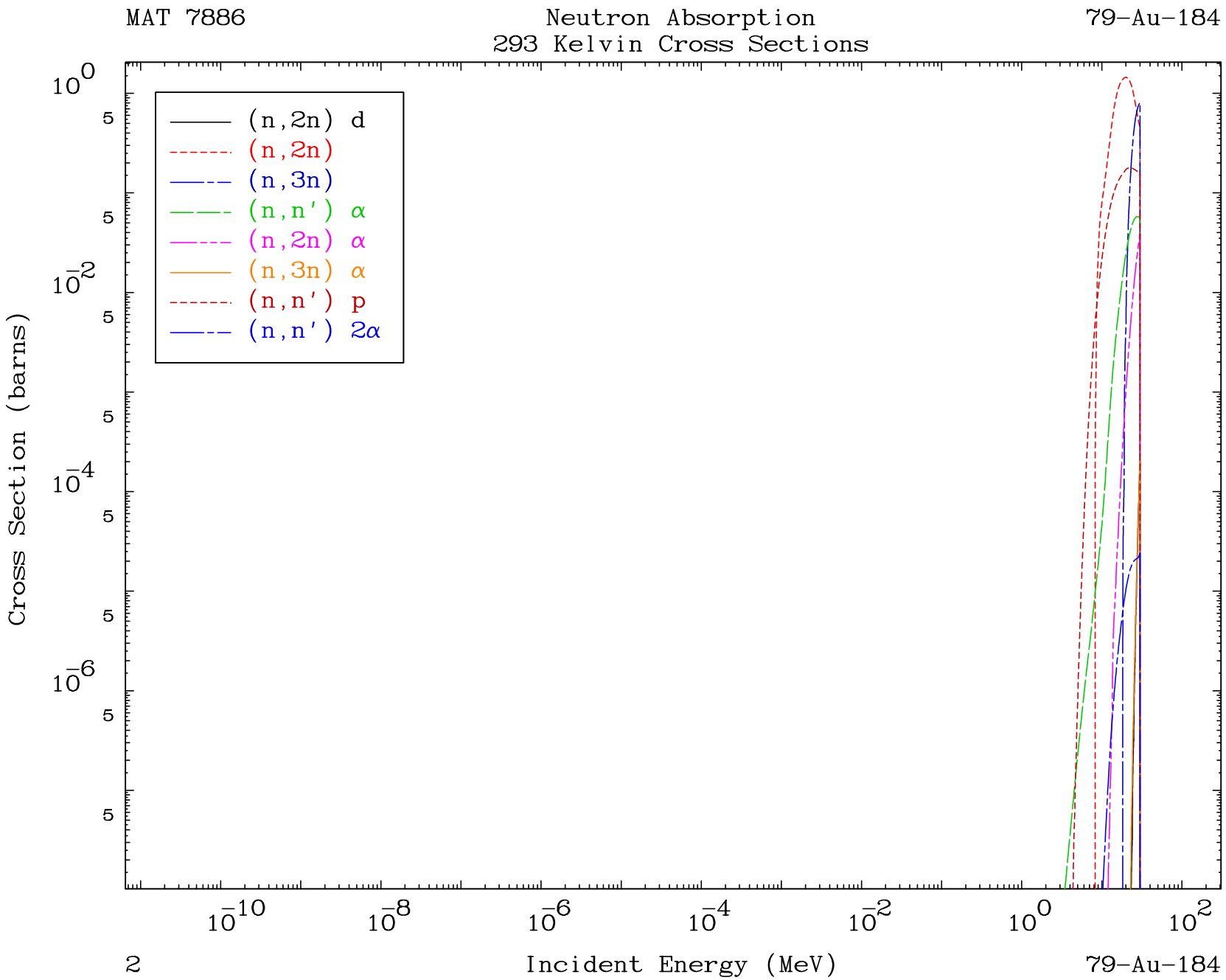
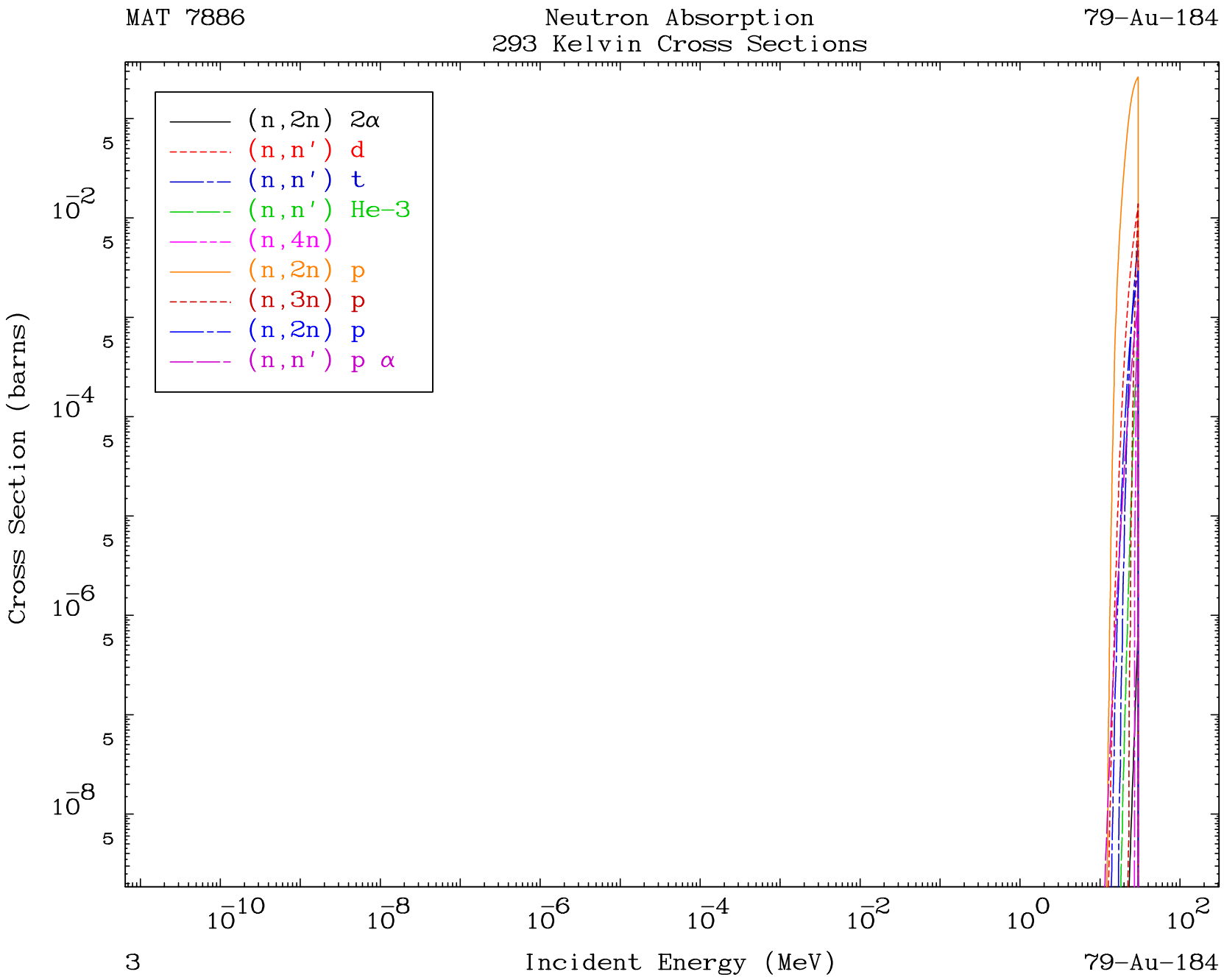
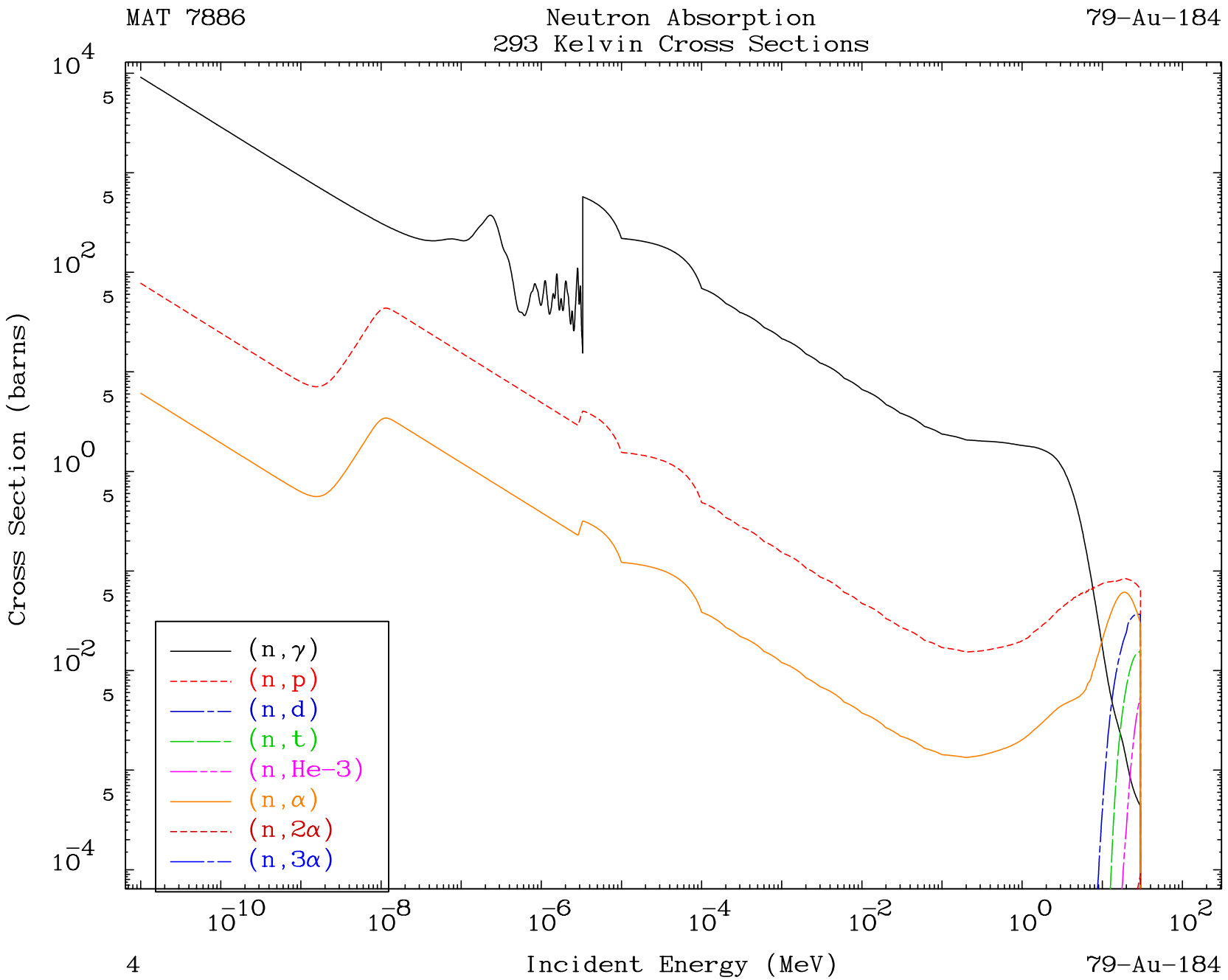
Program EVALPLOT
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

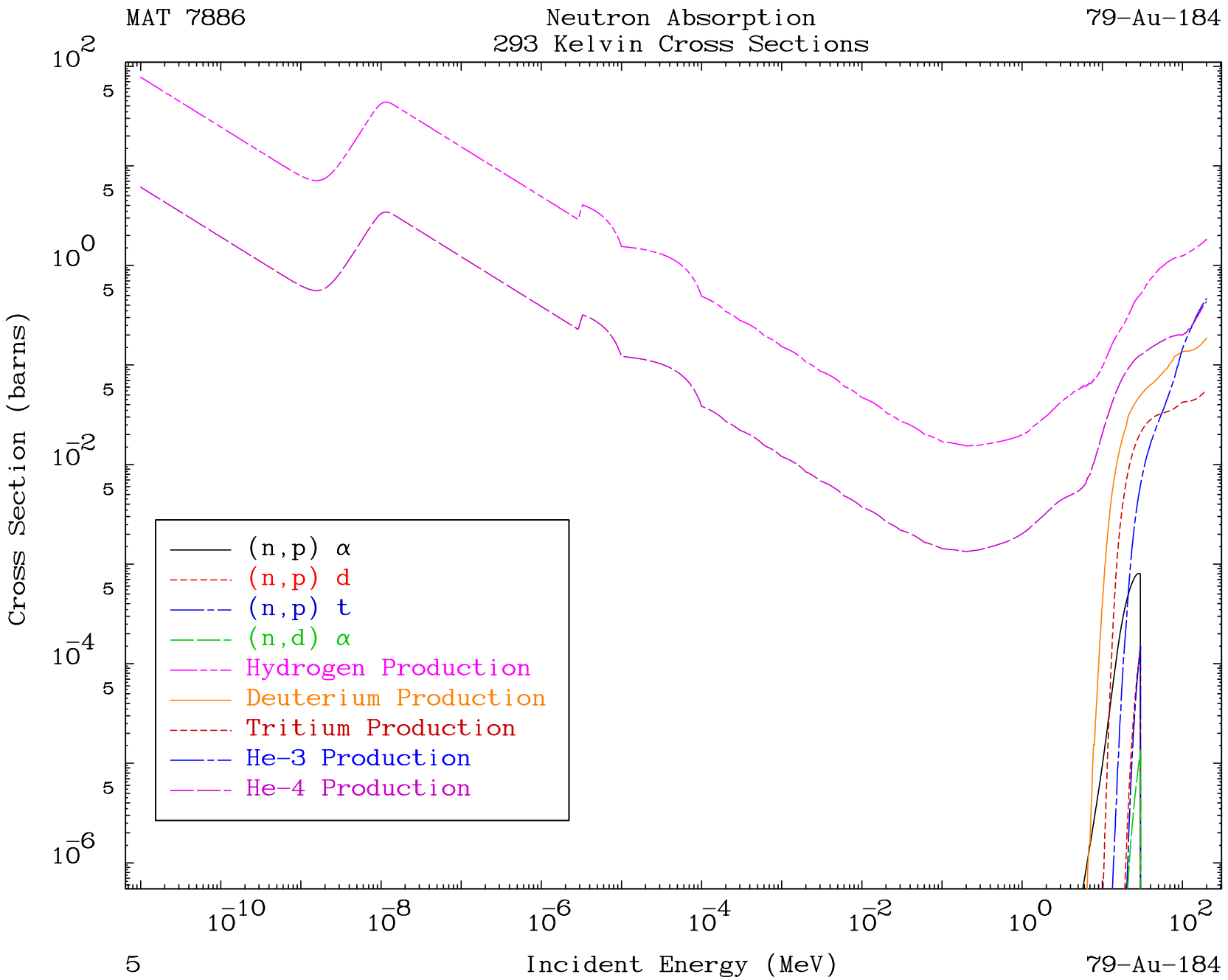
Press Mouse Button to Start

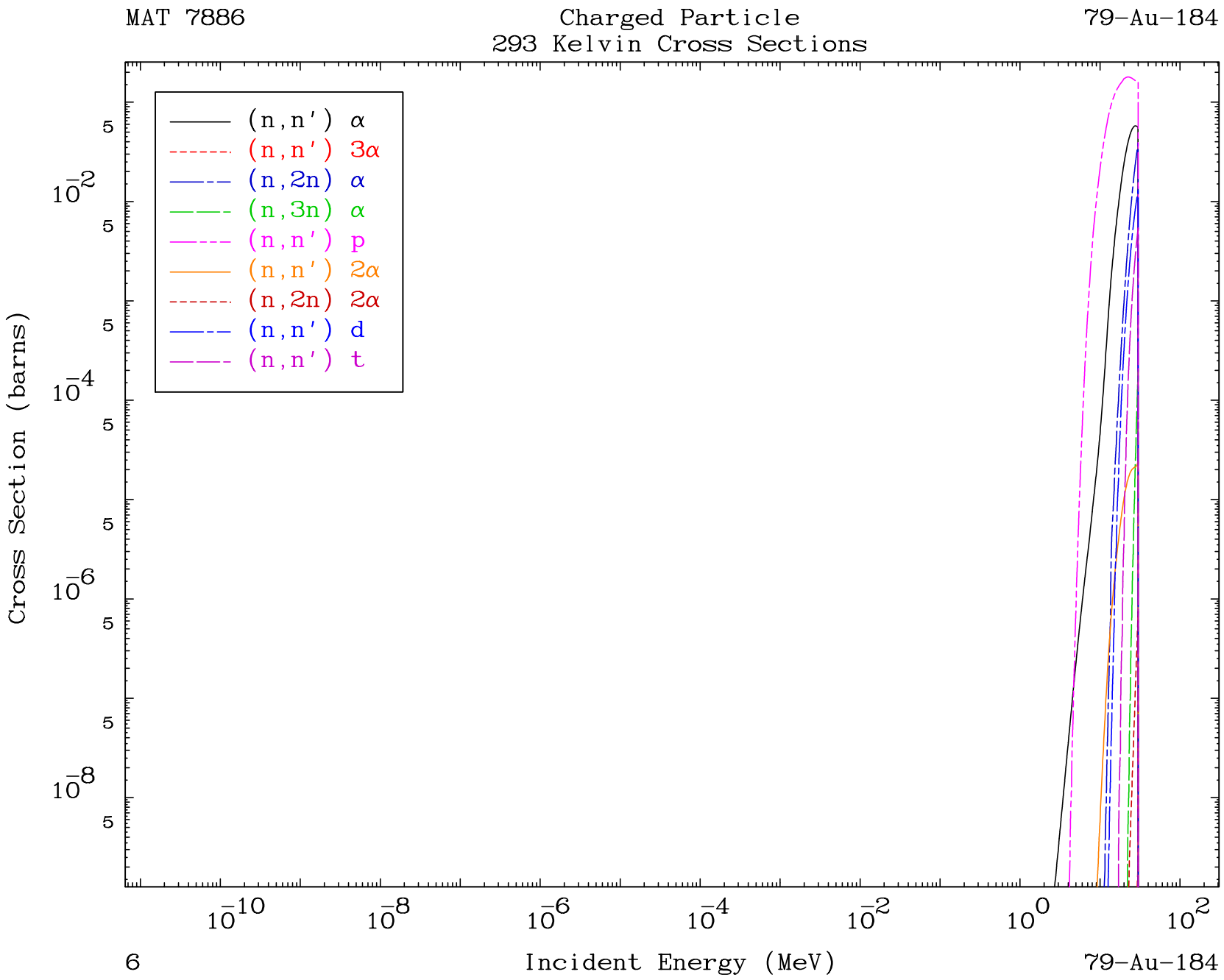

MAT 7886
Neutron Major
79-Au-184
293 Kelvin Cross Sections
Cross Section (barns)
Incident Energy (MeV)
Total
Elastic
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)
1
79-Au-184

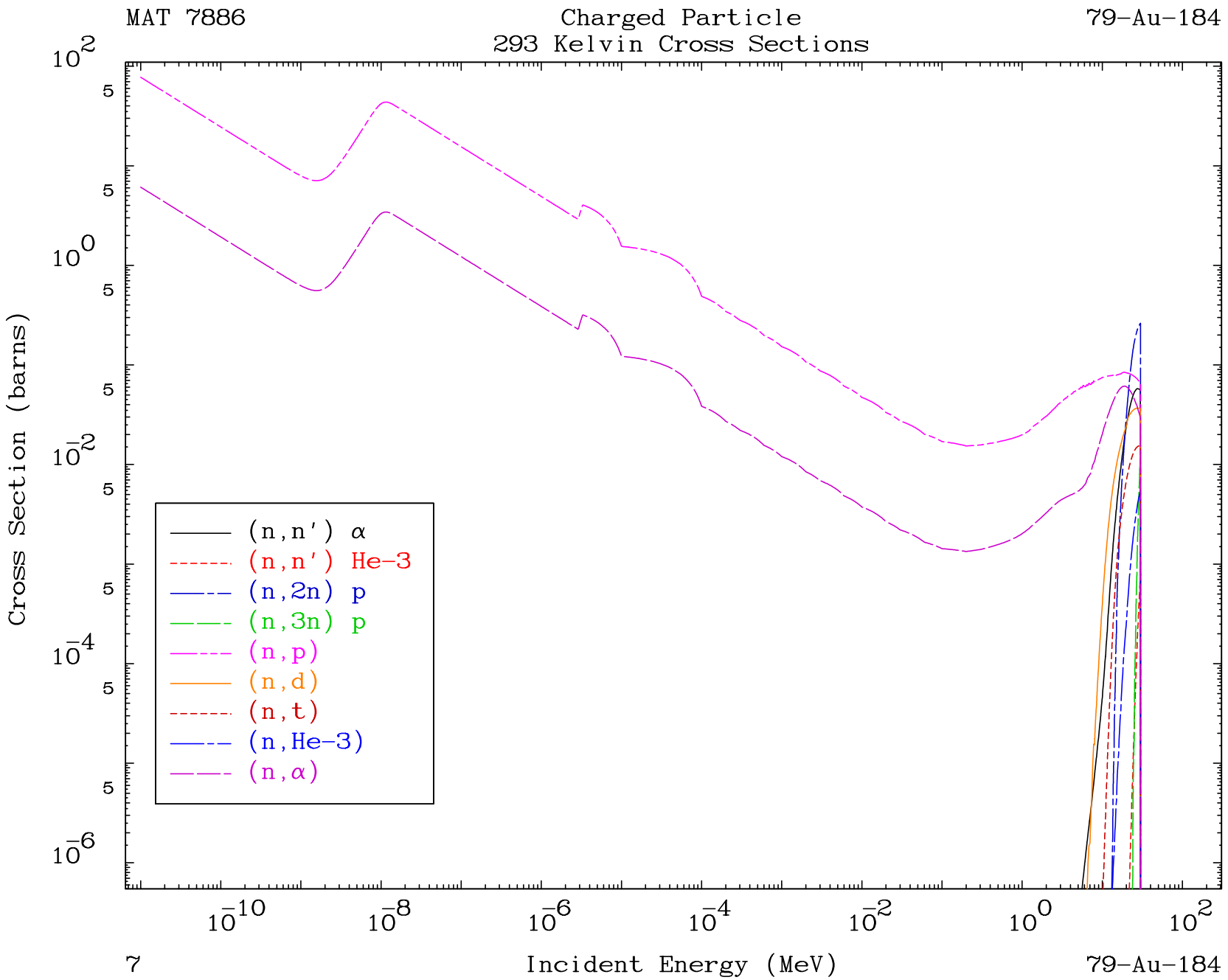

MAT 7886
Neutron Absorption
293 Kelvin Cross Sections
79-Au-184
(n,2n) d
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
Cross Section (barns)
Incident Energy (MeV)
2
79-Au-184

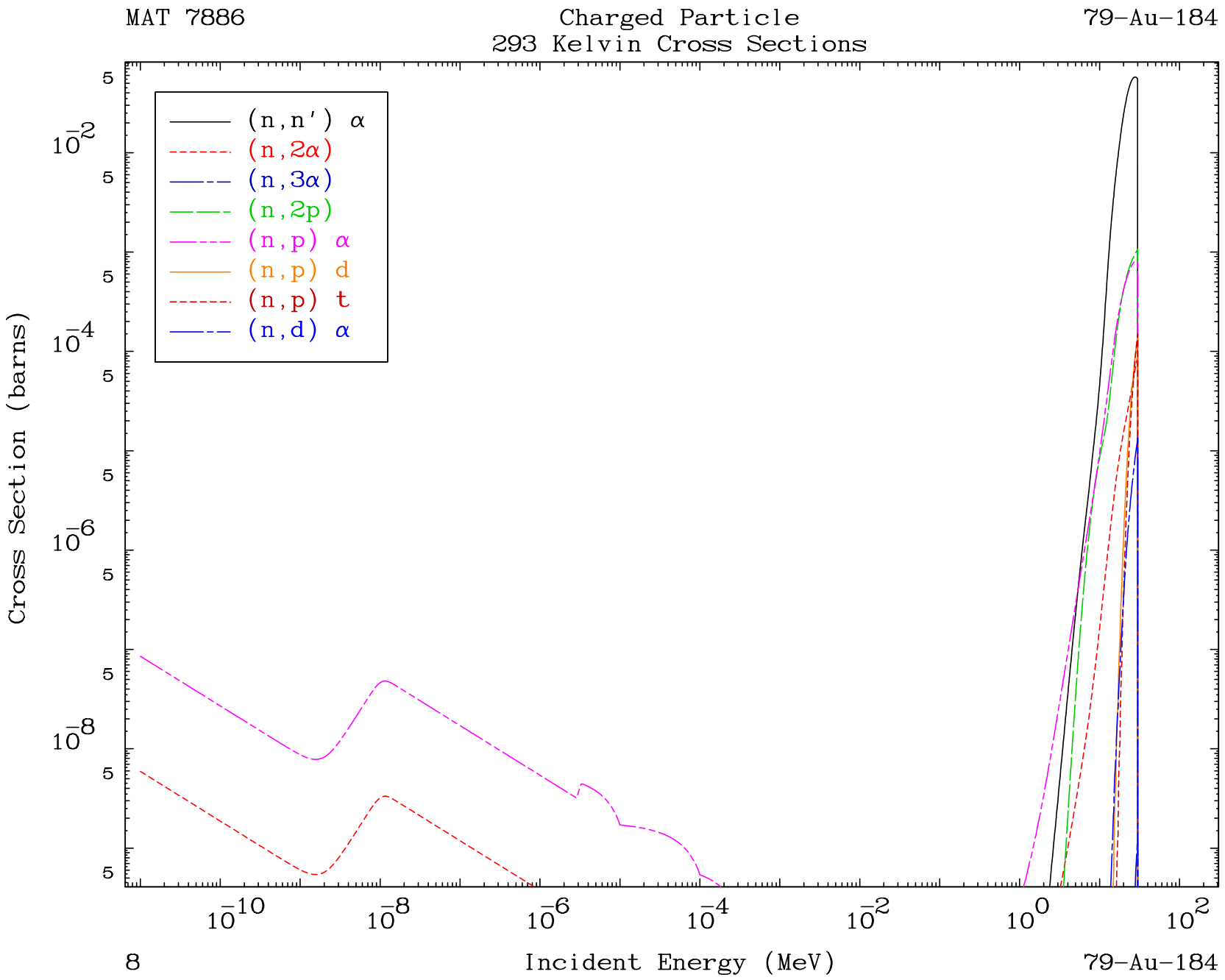

MAT 7886
Neutron Absorption
293 Kelvin Cross Sections
79-Au-184
(n,2n) 2α
(n,n') d
(n,n') t
(n,n') He-3
(n,4n)
(n,2n) p
(n,3n) p
(n,2n) p
(n,n') p α
Cross Section (barns)
Incident Energy (MeV)
3
79-Au-184

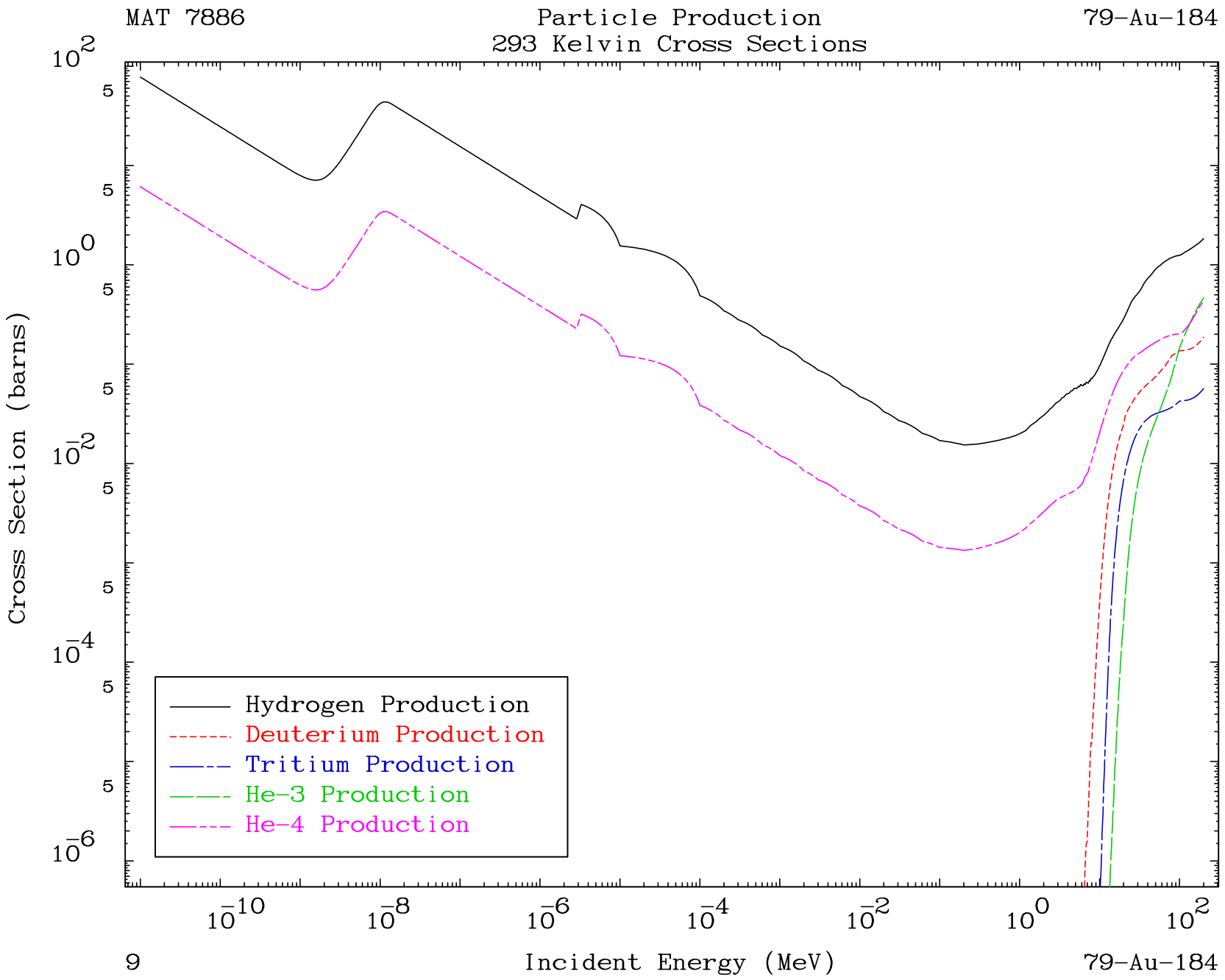

MAT 7886
Neutron Absorption
293 Kelvin Cross Sections
79-Au-184
Cross Section (barns)
Incident Energy (MeV)
(n,γ)
(n,p)
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,3α)
4
79-Au-184

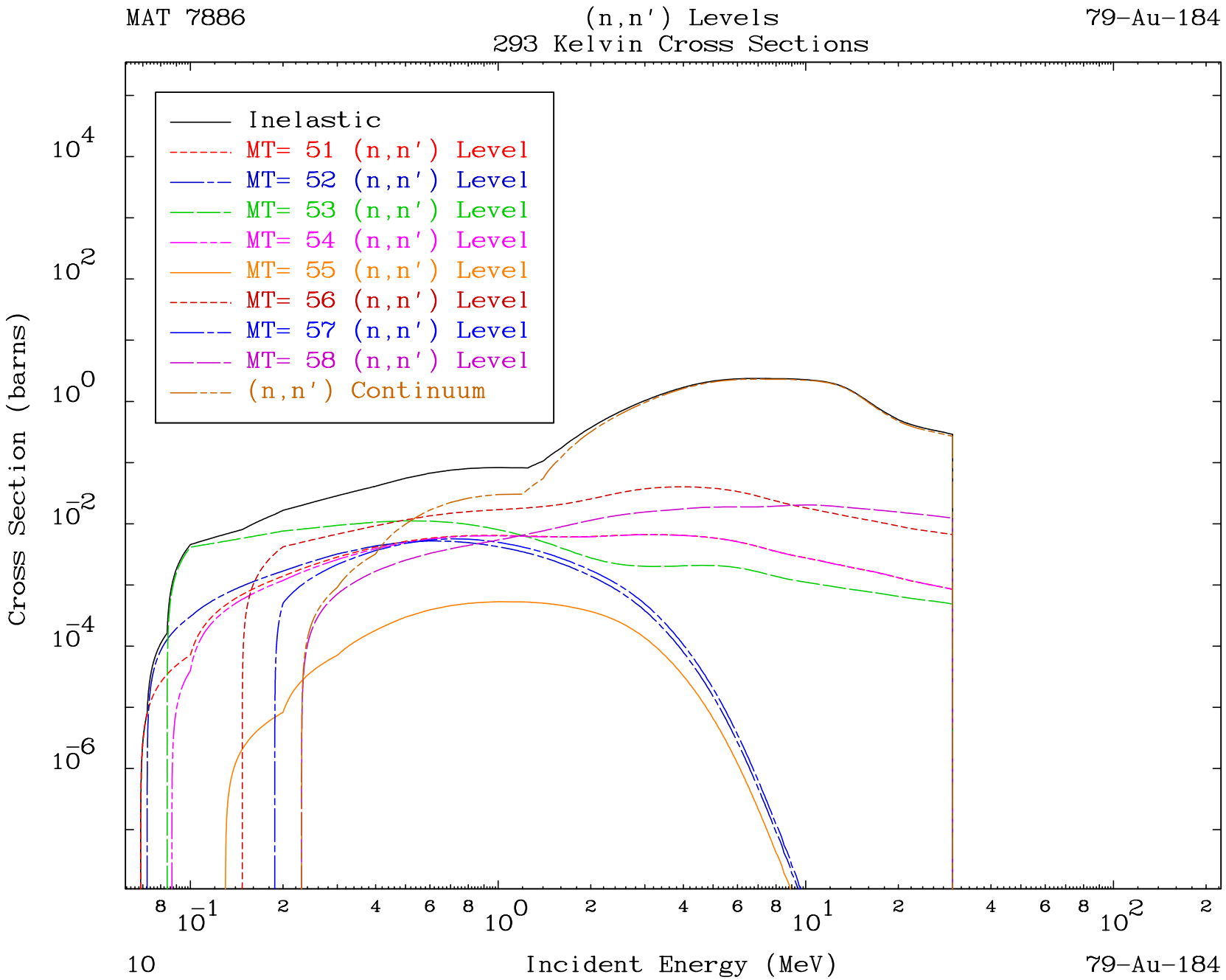

MAT 7886
Neutron Absorption
293 Kelvin Cross Sections
79-Au-184
Cross Section (barns)
Incident Energy (MeV)
79-Au-184
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production

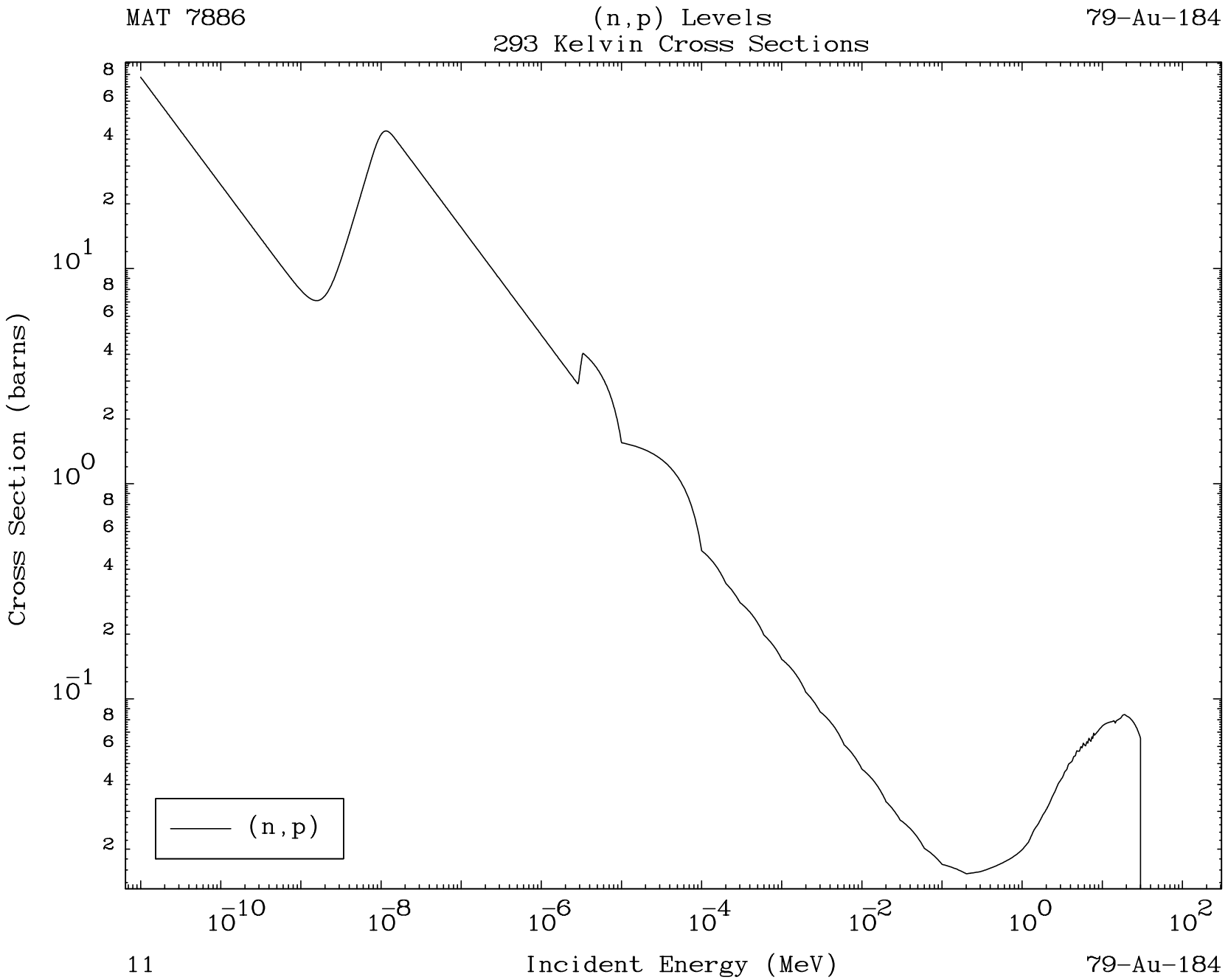

MAT 7886
Charged Particle
293 Kelvin Cross Sections
79-Au-184
(n,n') α
(n,n') 3α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') 2α
(n,2n) 2α
(n,n') d
(n,n') t
Cross Section (barns)
Incident Energy (MeV)
6
79-Au-184

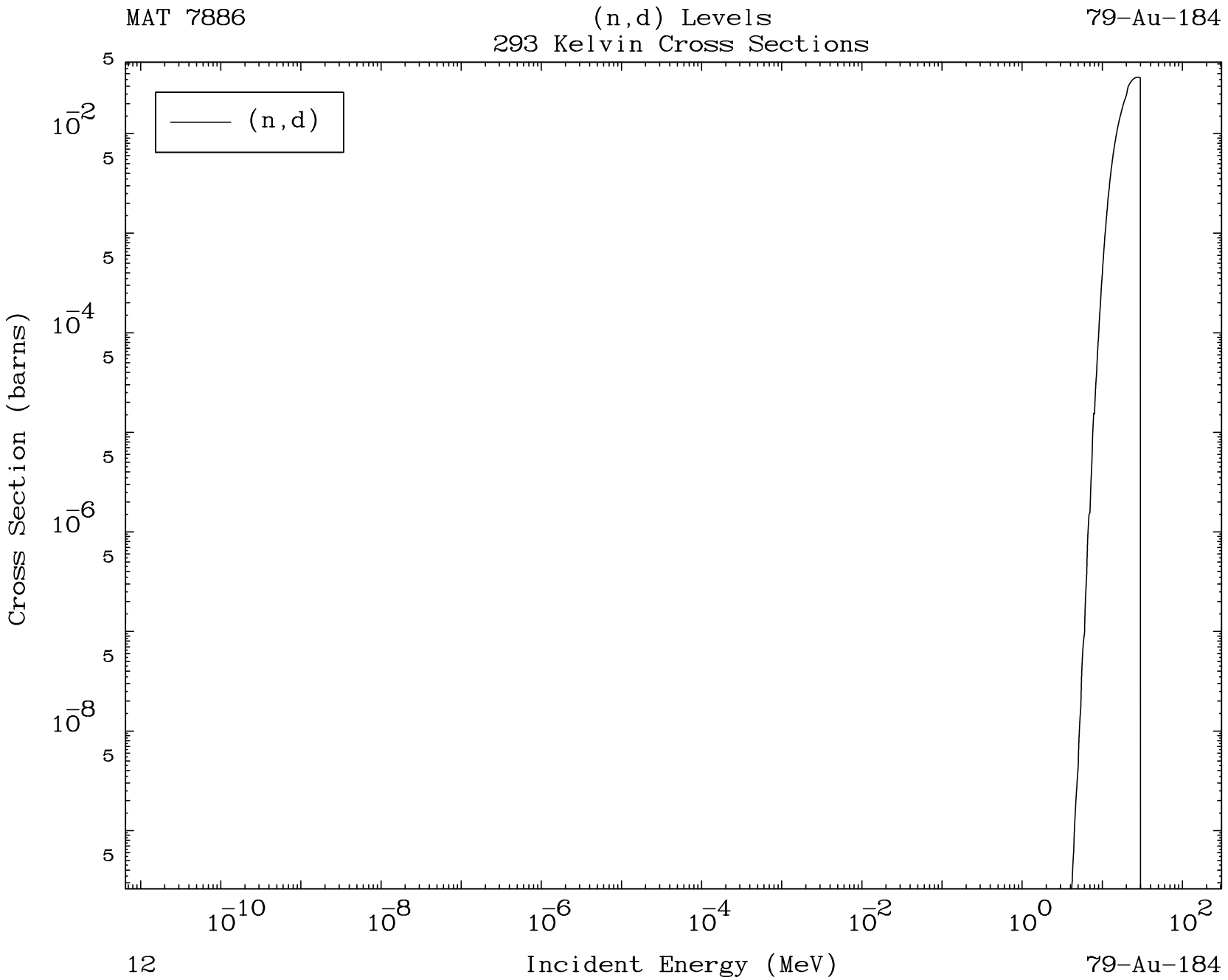

MAT 7886
Charged Particle
293 Kelvin Cross Sections
79-Au-184
Cross Section (barns)
Incident Energy (MeV)
7
79-Au-184
(n,n') α
(n,n') He-3
(n,2n) p
(n,3n) p
(n,p)
(n,d)
(n,t)
(n,He-3)
(n,α)

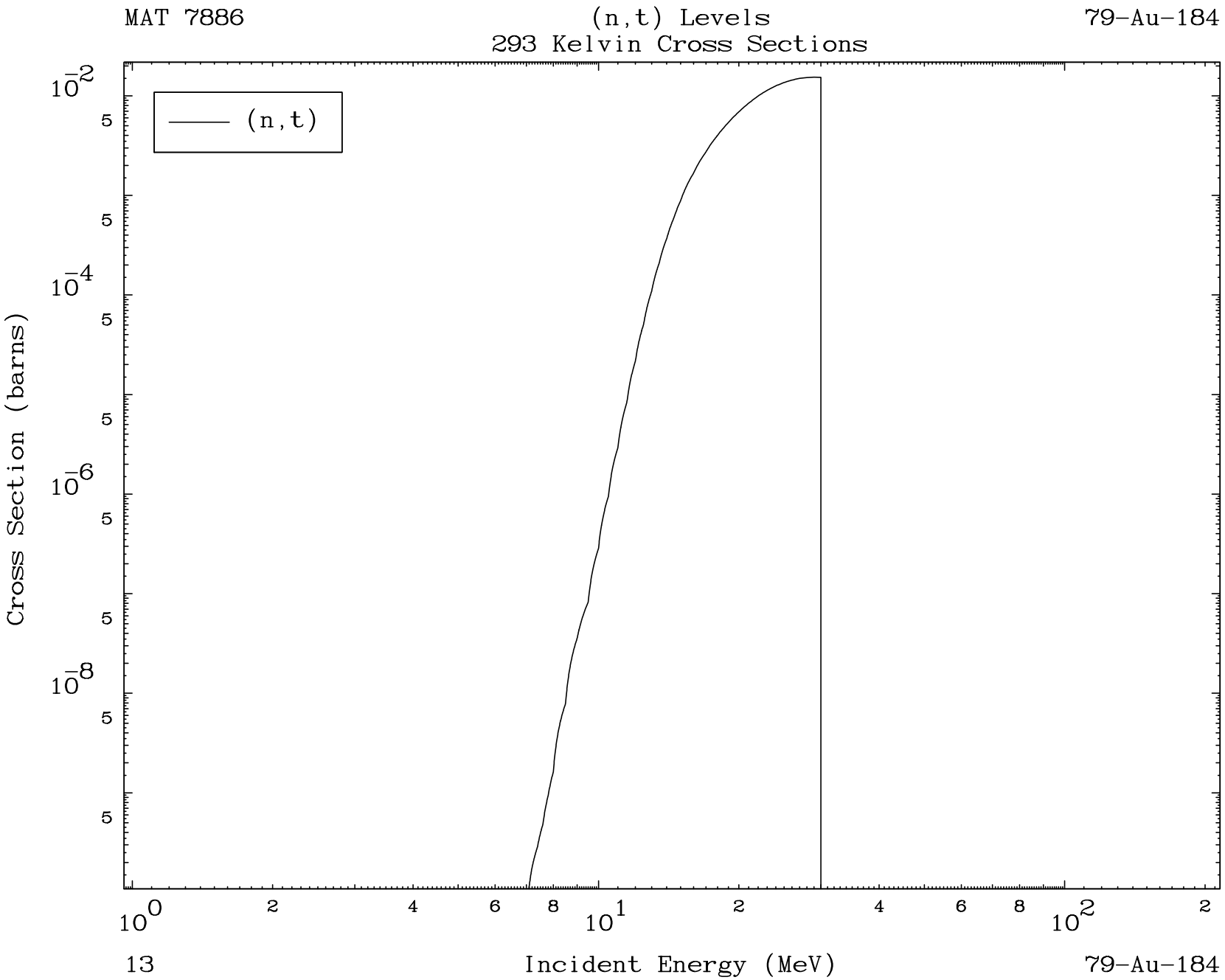

MAT 7886
Charged Particle
293 Kelvin Cross Sections
79-Au-184
(n,n') α
(n,2α)
(n,3α)
(n,2p)
(n,p) α
(n,p) d
(n,p) t
(n,d) α
Cross Section (barns)
Incident Energy (MeV)
8
79-Au-184

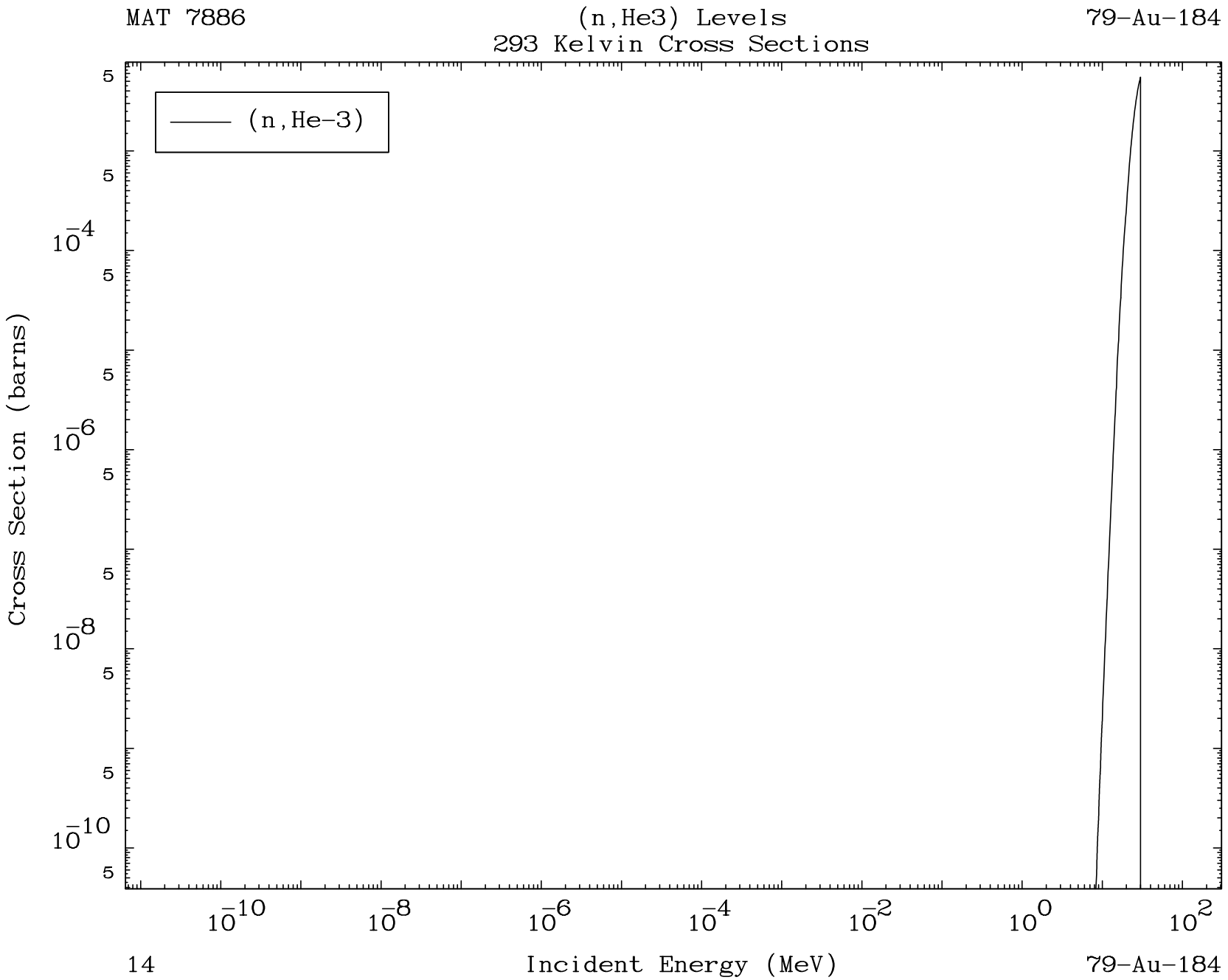

MAT 7886
Particle Production
293 Kelvin Cross Sections
79-Au-184
Cross Section (barns)
Incident Energy (MeV)
Hydrogen Production
Deuterium Production
Tritium Production
He-3 Production
He-4 Production
9
79-Au-184

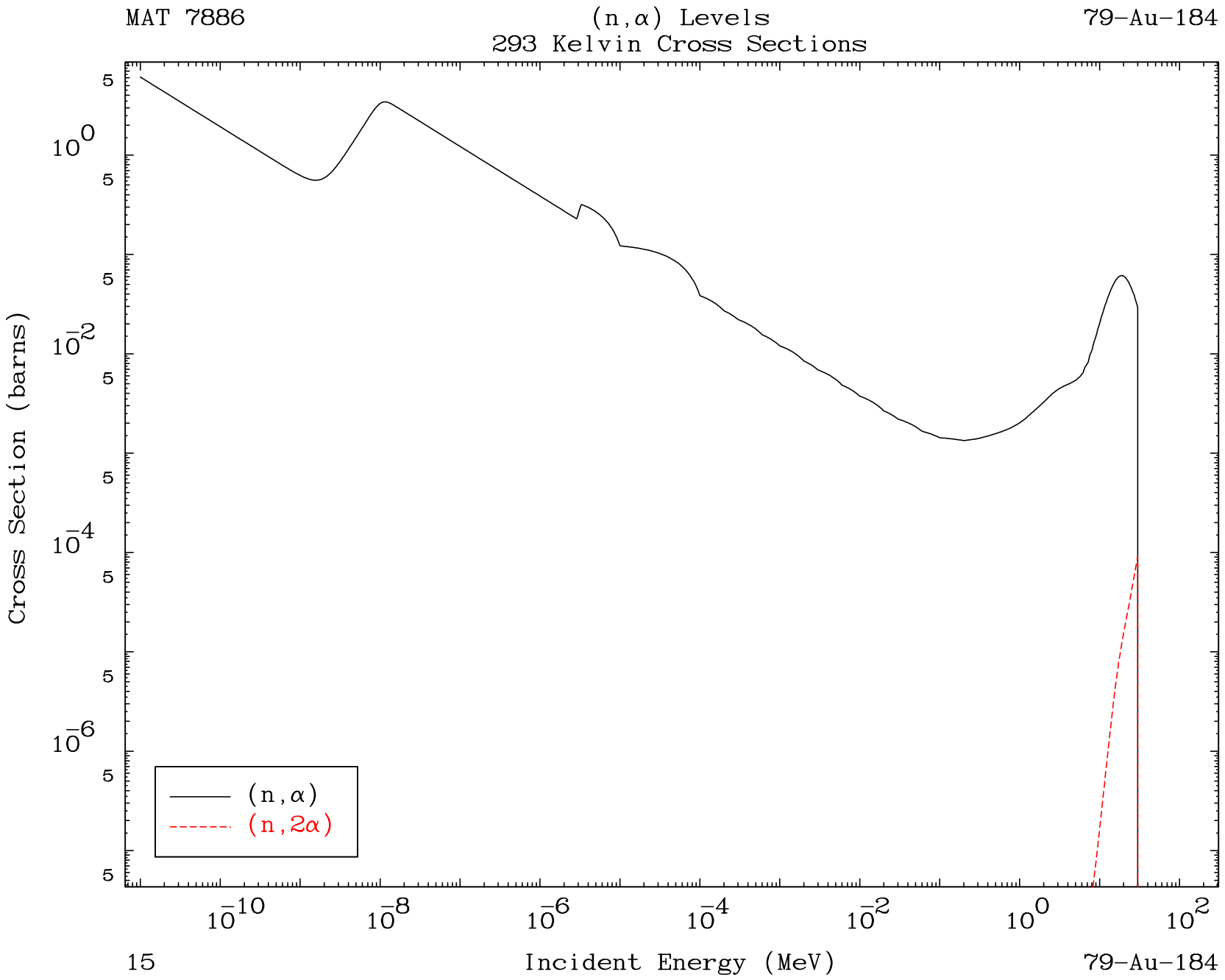

MAT 7886
(n,n') Levels
293 Kelvin Cross Sections
79-Au-184
Inelastic
MT= 51 (n,n') Level
MT= 52 (n,n') Level
MT= 53 (n,n') Level
MT= 54 (n,n') Level
MT= 55 (n,n') Level
MT= 56 (n,n') Level
MT= 57 (n,n') Level
MT= 58 (n,n') Level
(n,n') Continuum
Cross Section (barns)
10^4
10^2
10^0
10^-2
10^-4
10^-6
10^-1
10^0
10^1
10^2
Incident Energy (MeV)
79-Au-184

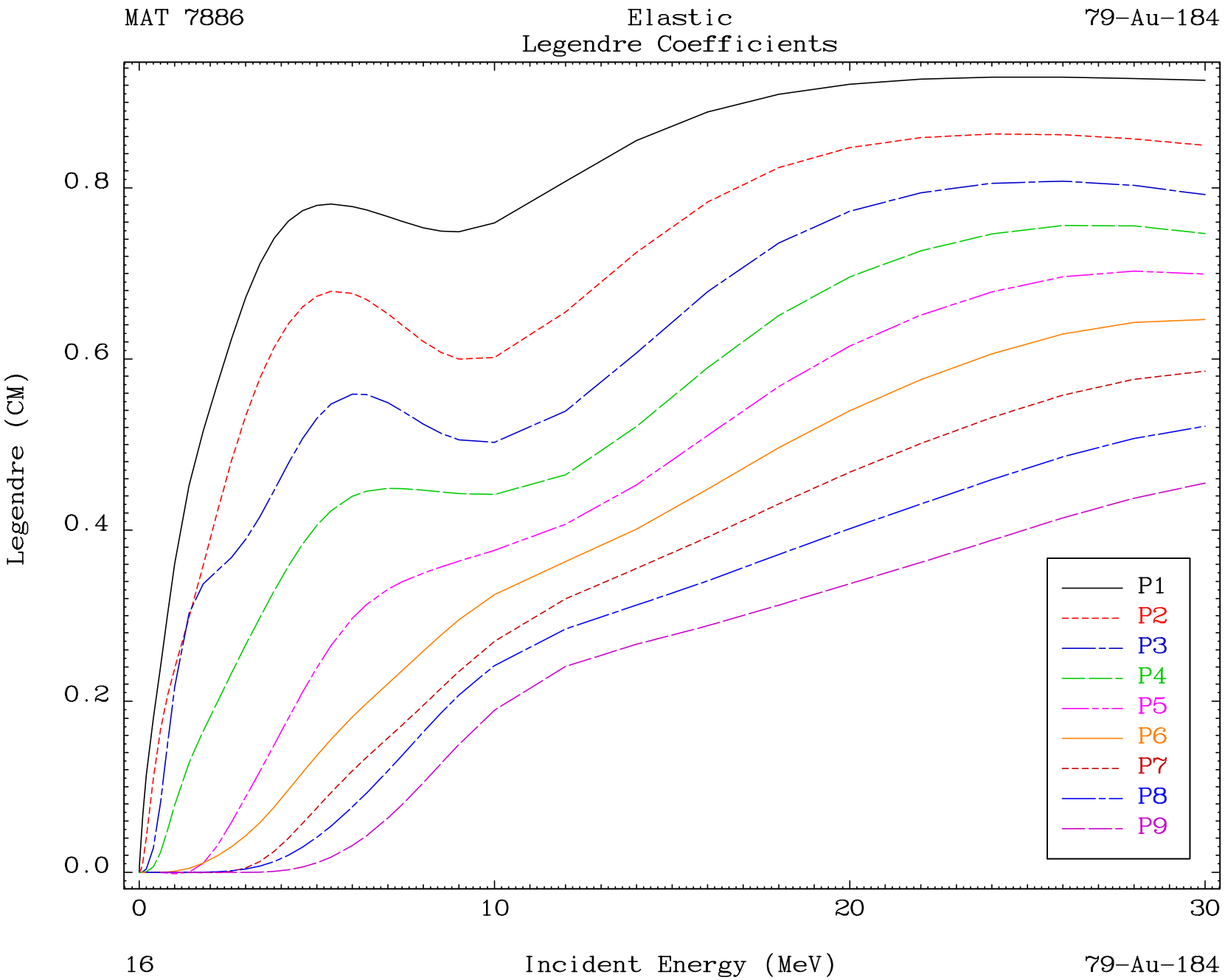

MAT 7886
(n,p) Levels
79-Au-184
293 Kelvin Cross Sections
Cross Section (barns)
(n,p)
Incident Energy (MeV)
11
79-Au-184

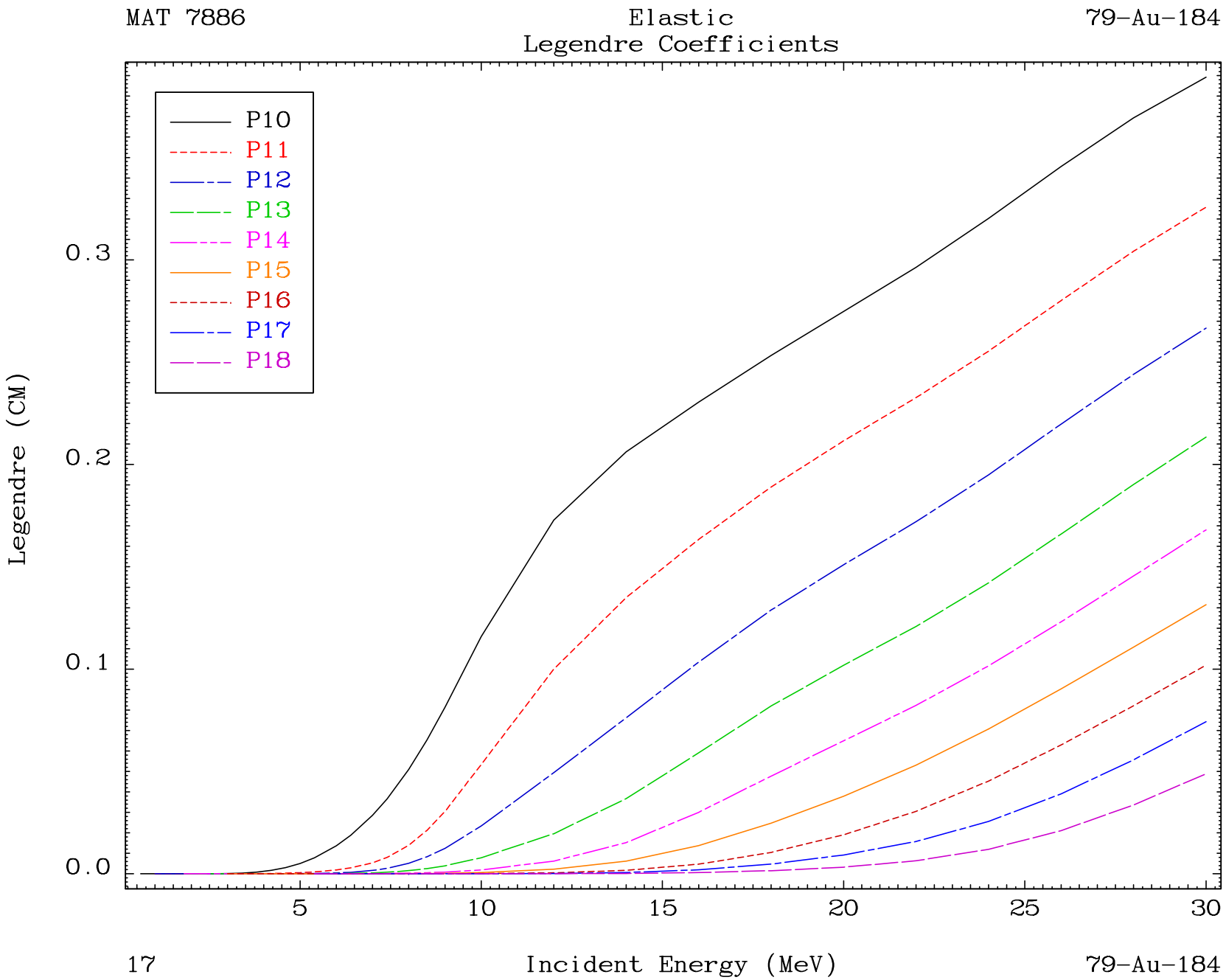

MAT 7886
(n,d) Levels
79-Au-184
293 Kelvin Cross Sections
(n,d)
Cross Section (barns)
Incident Energy (MeV)
12
79-Au-184

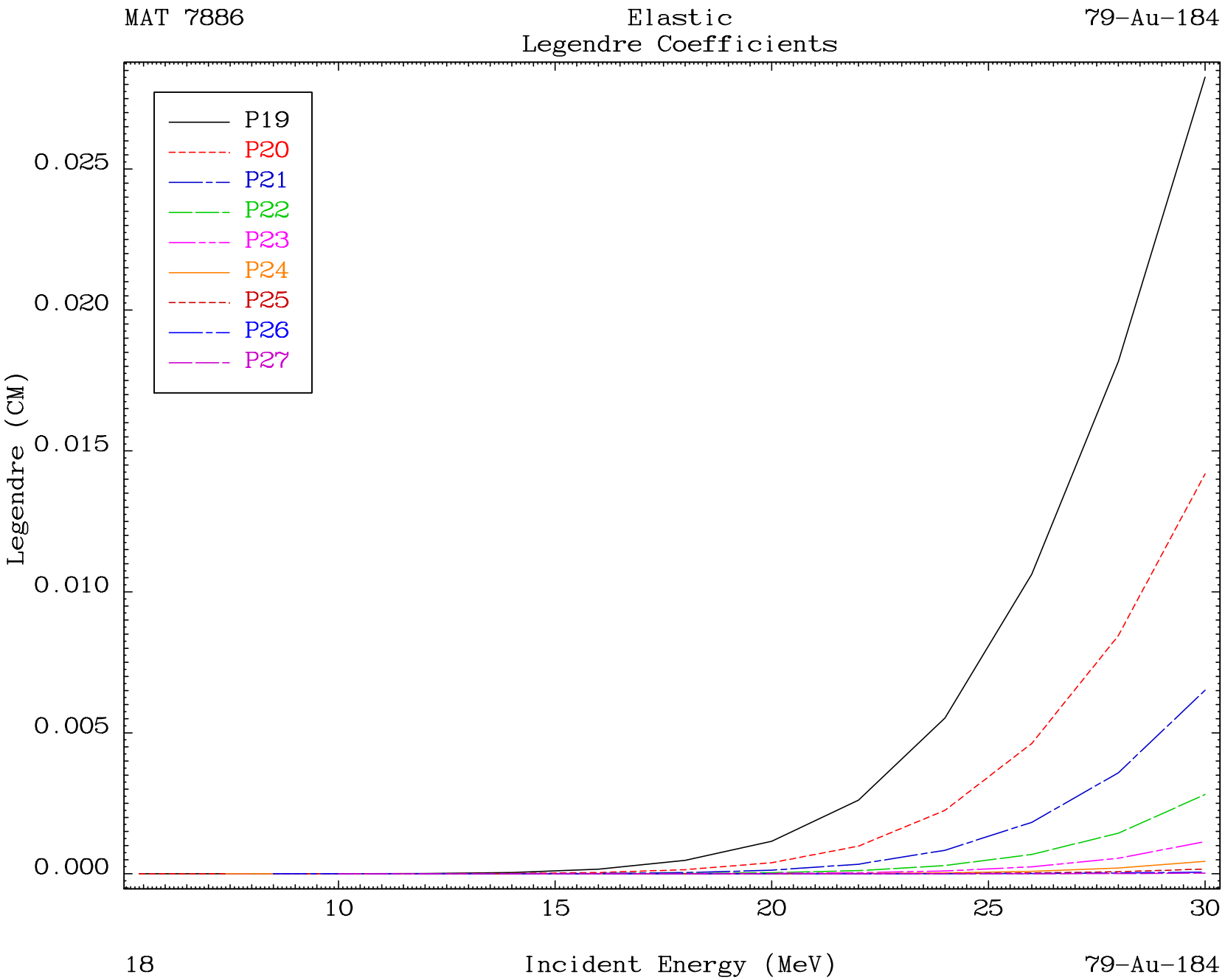

MAT 7886
(n,t) Levels
79-Au-184
293 Kelvin Cross Sections
(n,t)
Cross Section (barns)
Incident Energy (MeV)
13
79-Au-184

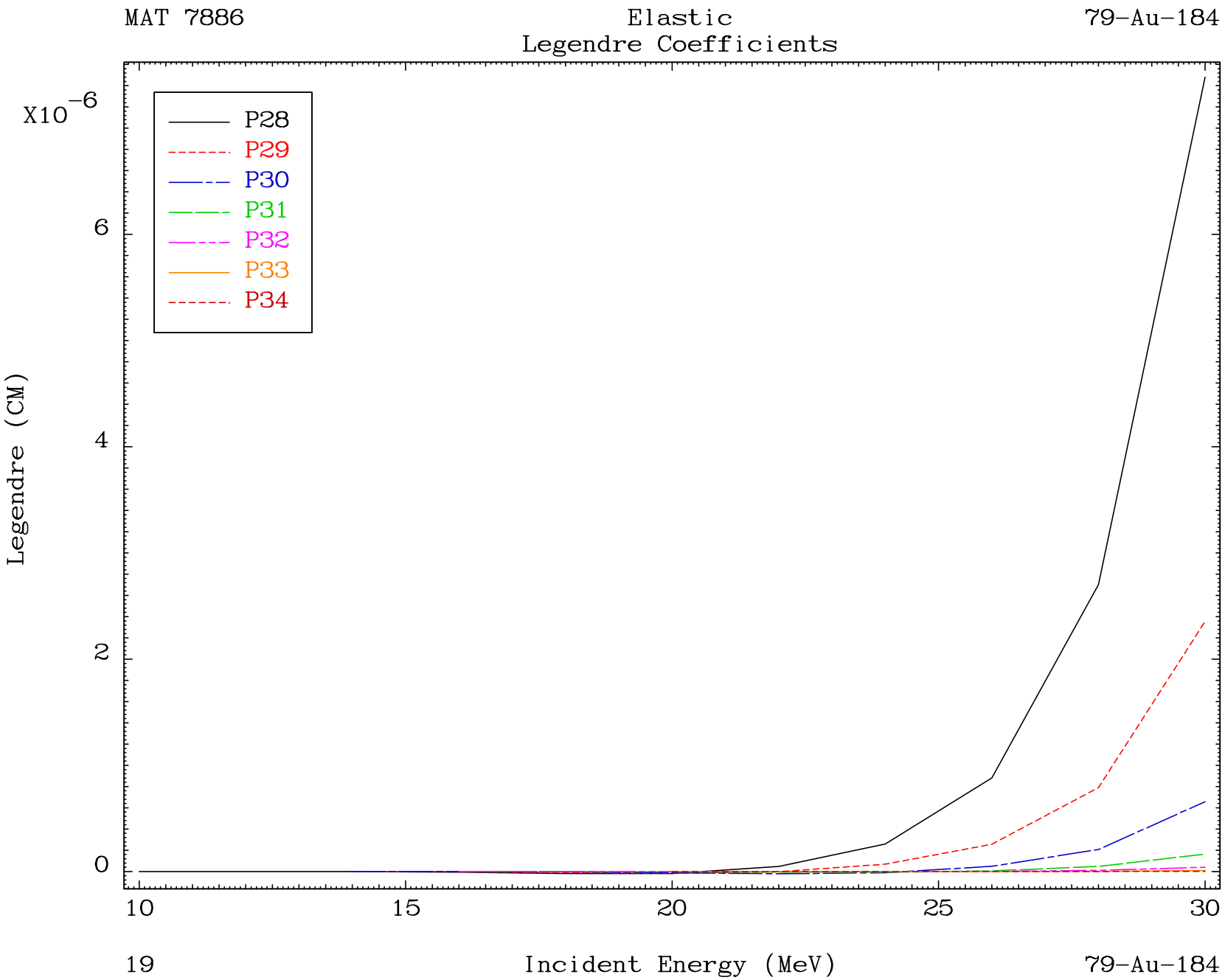

MAT 7886
(n,He3) Levels
79-Au-184
293 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
Incident Energy (MeV)
14
79-Au-184

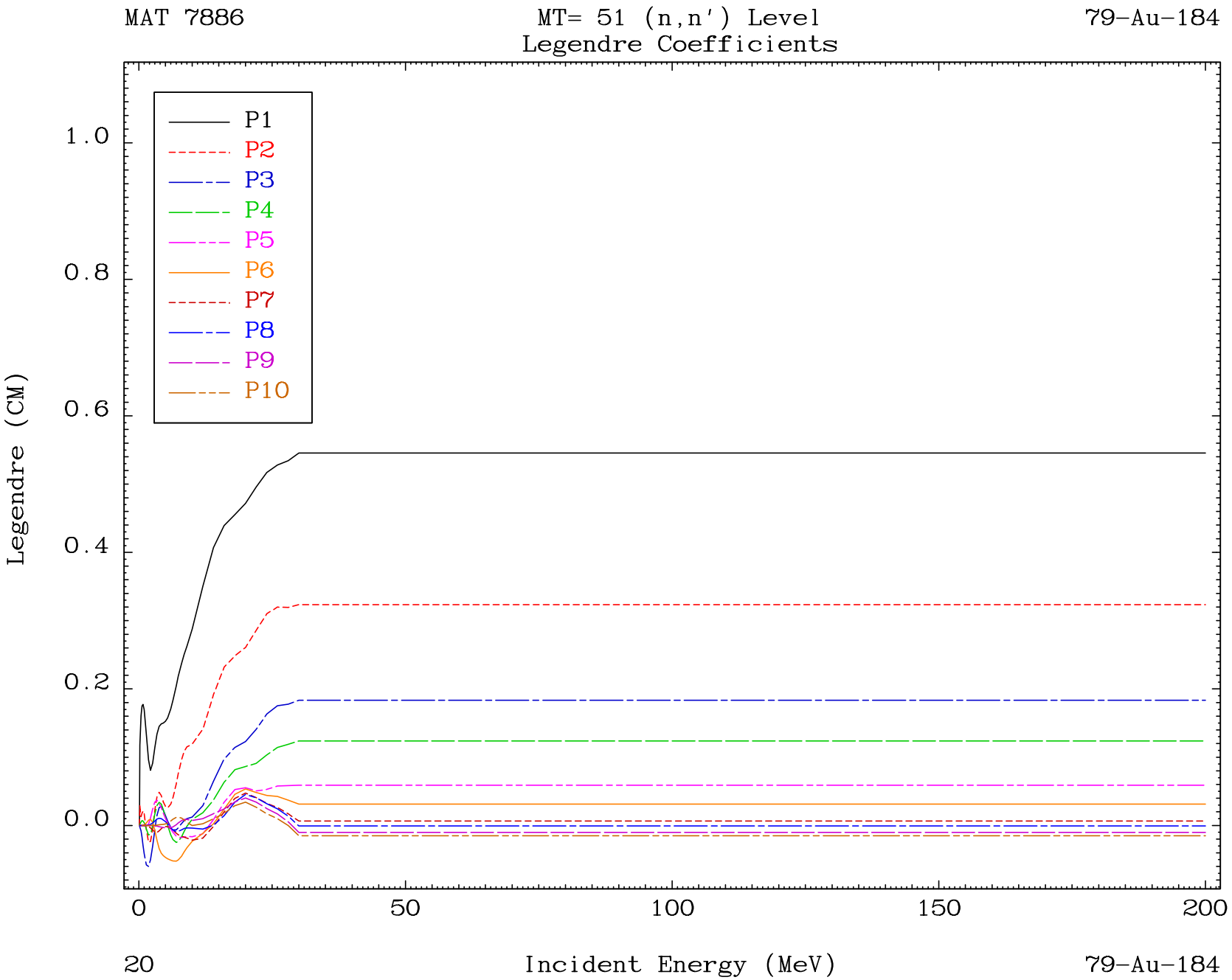

MAT 7886
(n,α) Levels
79-Au-184
293 Kelvin Cross Sections
Cross Section (barns)
10^0
10^-2
10^-4
10^-6
5
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
Incident Energy (MeV)
(n,α)
(n,2α)
15
79-Au-184

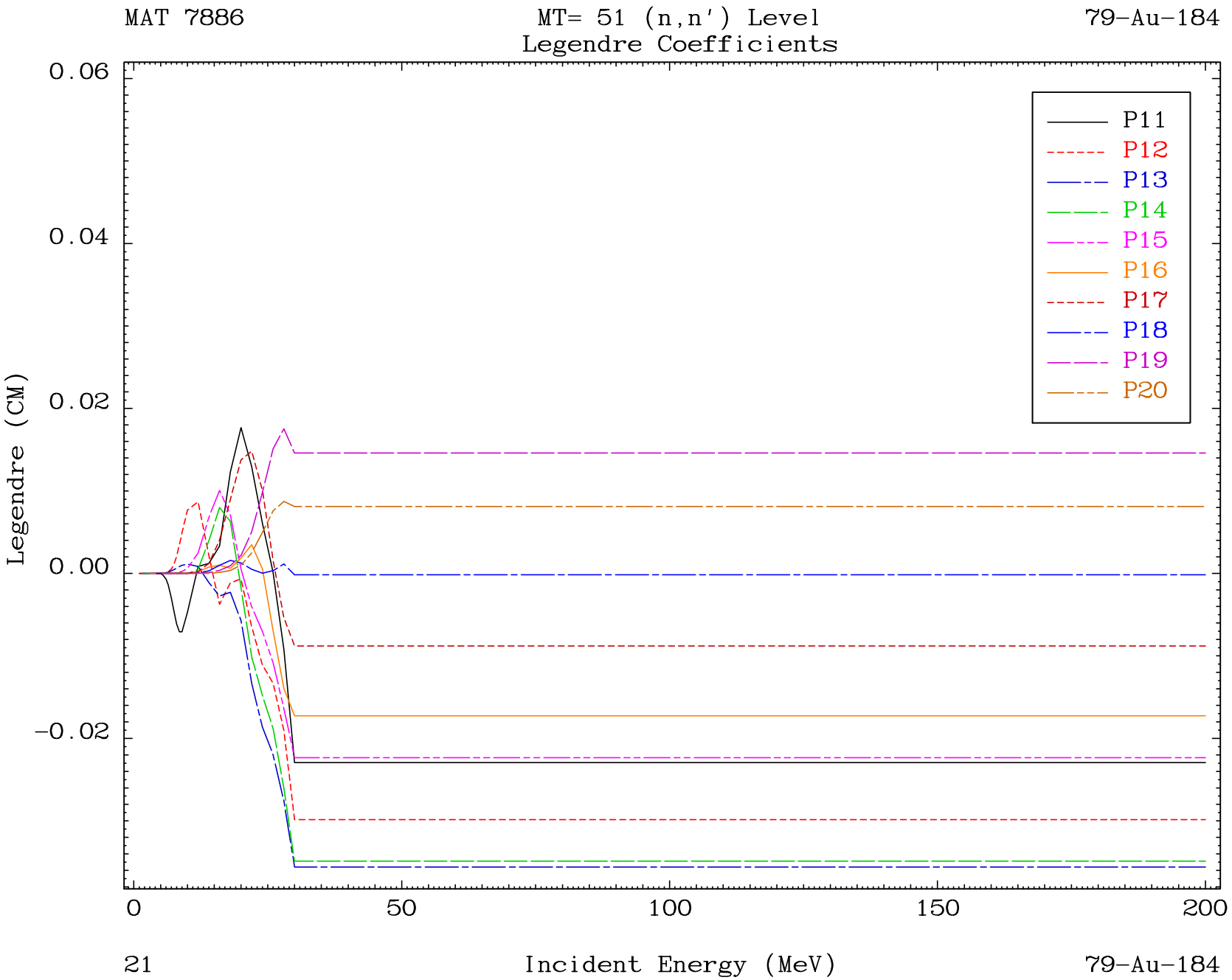

MAT 7886
Elastic
Legendre Coefficients
79-Au-184
Legendre (CM)
0.0
0.2
0.4
0.6
0.8
0
10
20
30
16
Incident Energy (MeV)
79-Au-184
P1
P2
P3
P4
P5
P6
P7
P8
P9

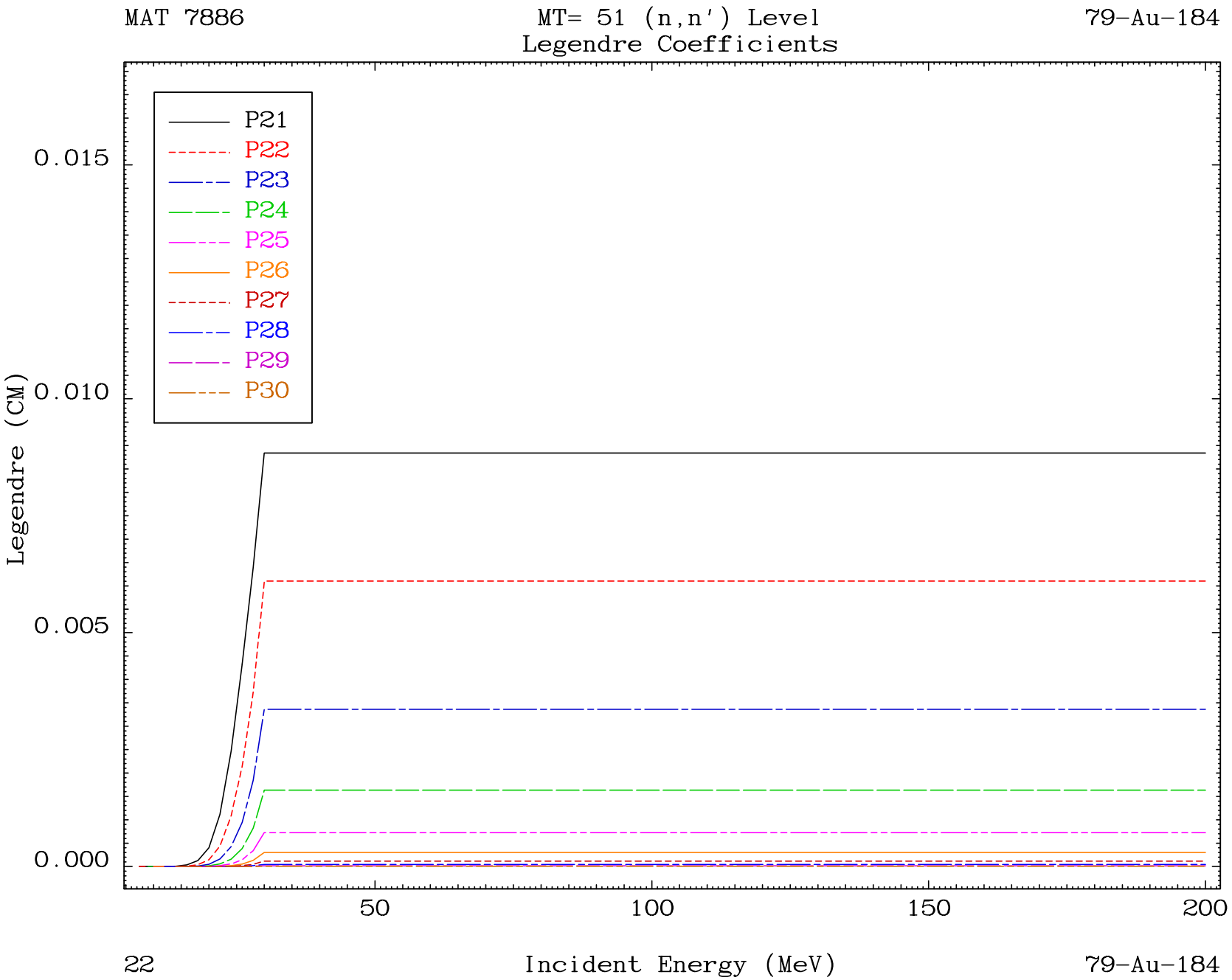

MAT 7886
Elastic
Legendre Coefficients
79-Au-184
P10
P11
P12
P13
P14
P15
P16
P17
P18
Legendre (CM)
0.0
0.1
0.2
0.3
5
10
15
20
25
30
17
Incident Energy (MeV)
79-Au-184

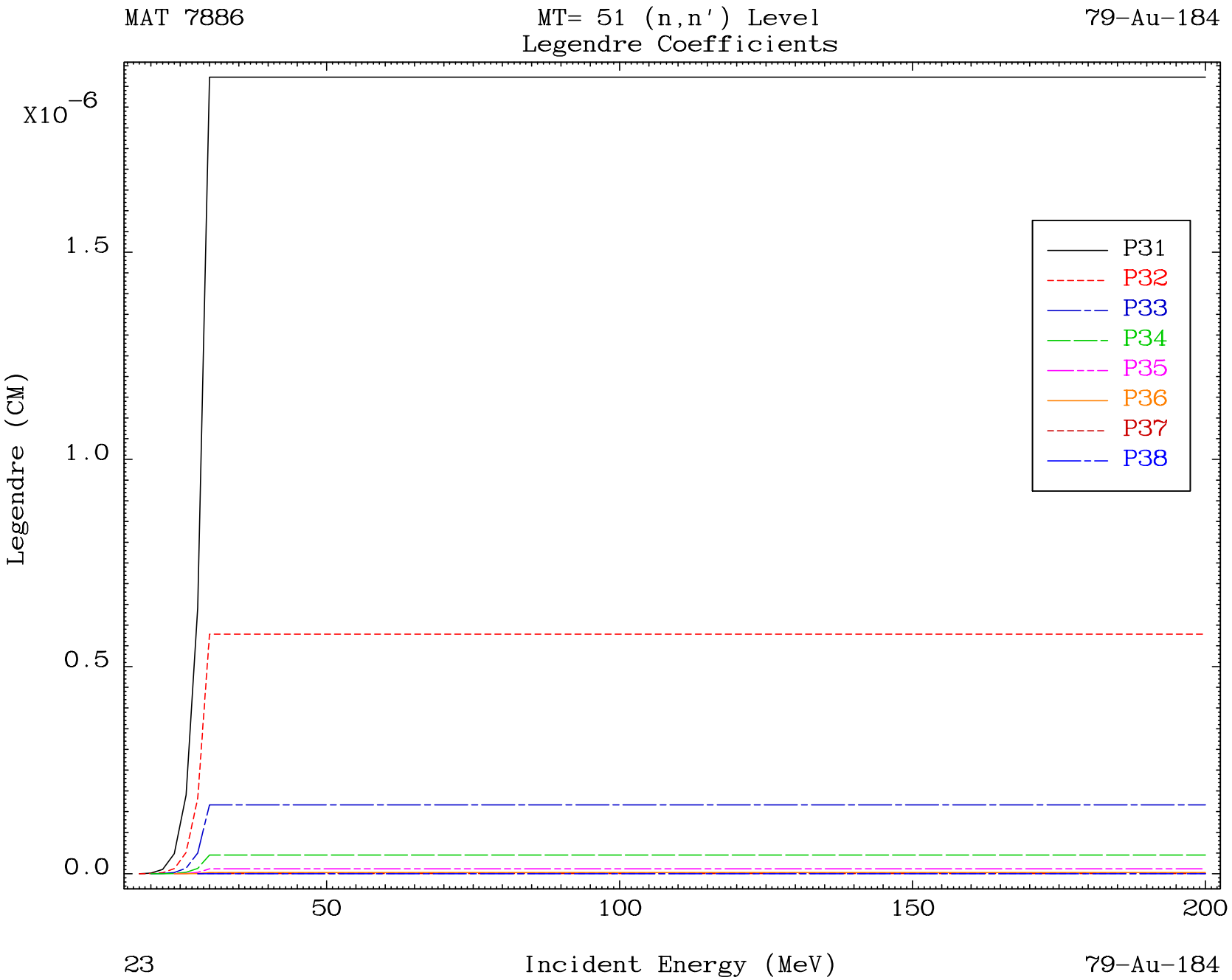

MAT 7886
Elastic
Legendre Coefficients
79-Au-184
P19
P20
P21
P22
P23
P24
P25
P26
P27
0.025
0.020
0.015
0.010
0.005
0.000
Legendre (CM)
10
15
20
25
30
18
Incident Energy (MeV)
79-Au-184

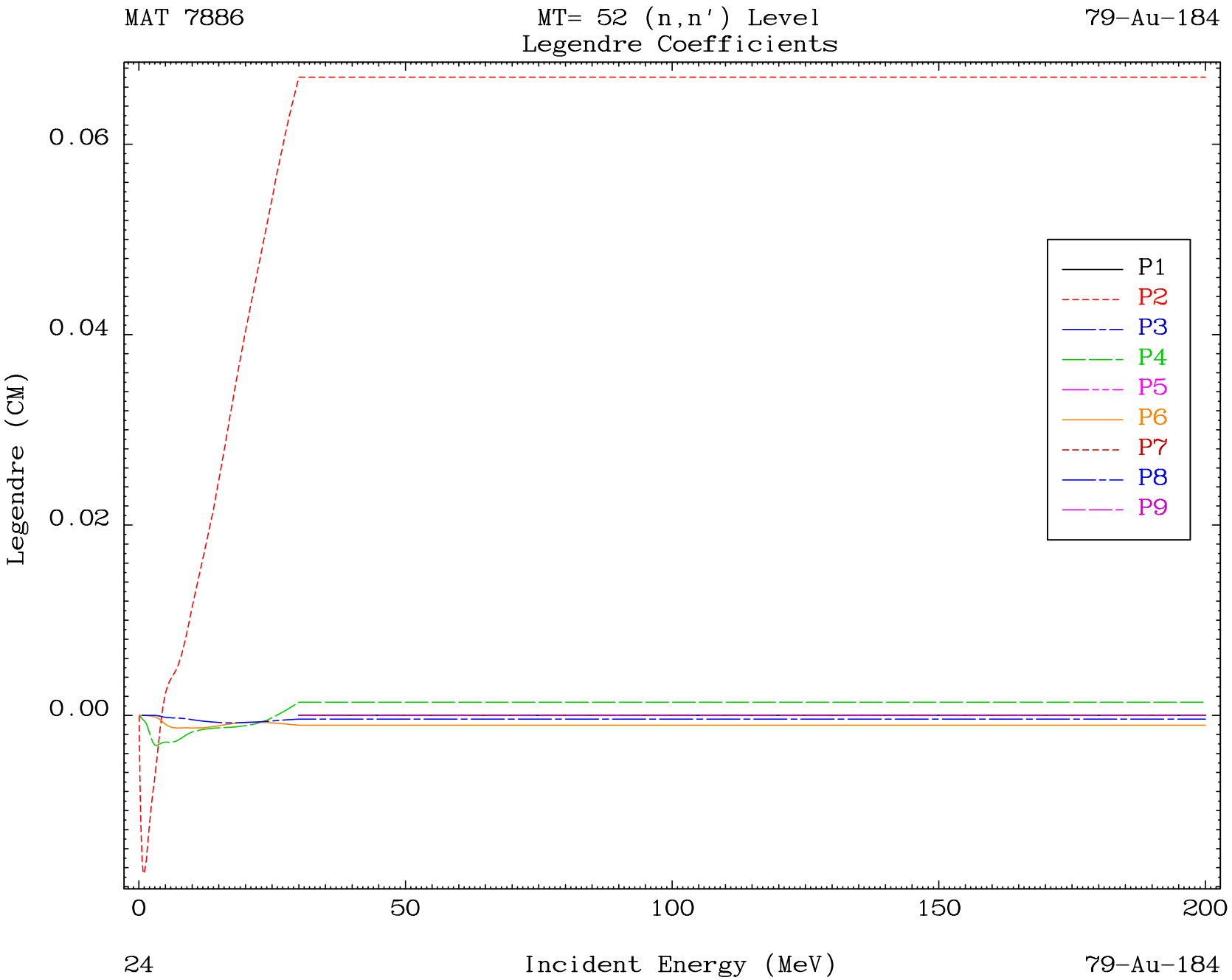

MAT 7886
Elastic
Legendre Coefficients
79-Au-184
X10 −6
P28
P29
P30
P31
P32
P33
P34
Legendre (CM)
6
4
2
0
10
15
20
25
30
19
Incident Energy (MeV)
79-Au-184

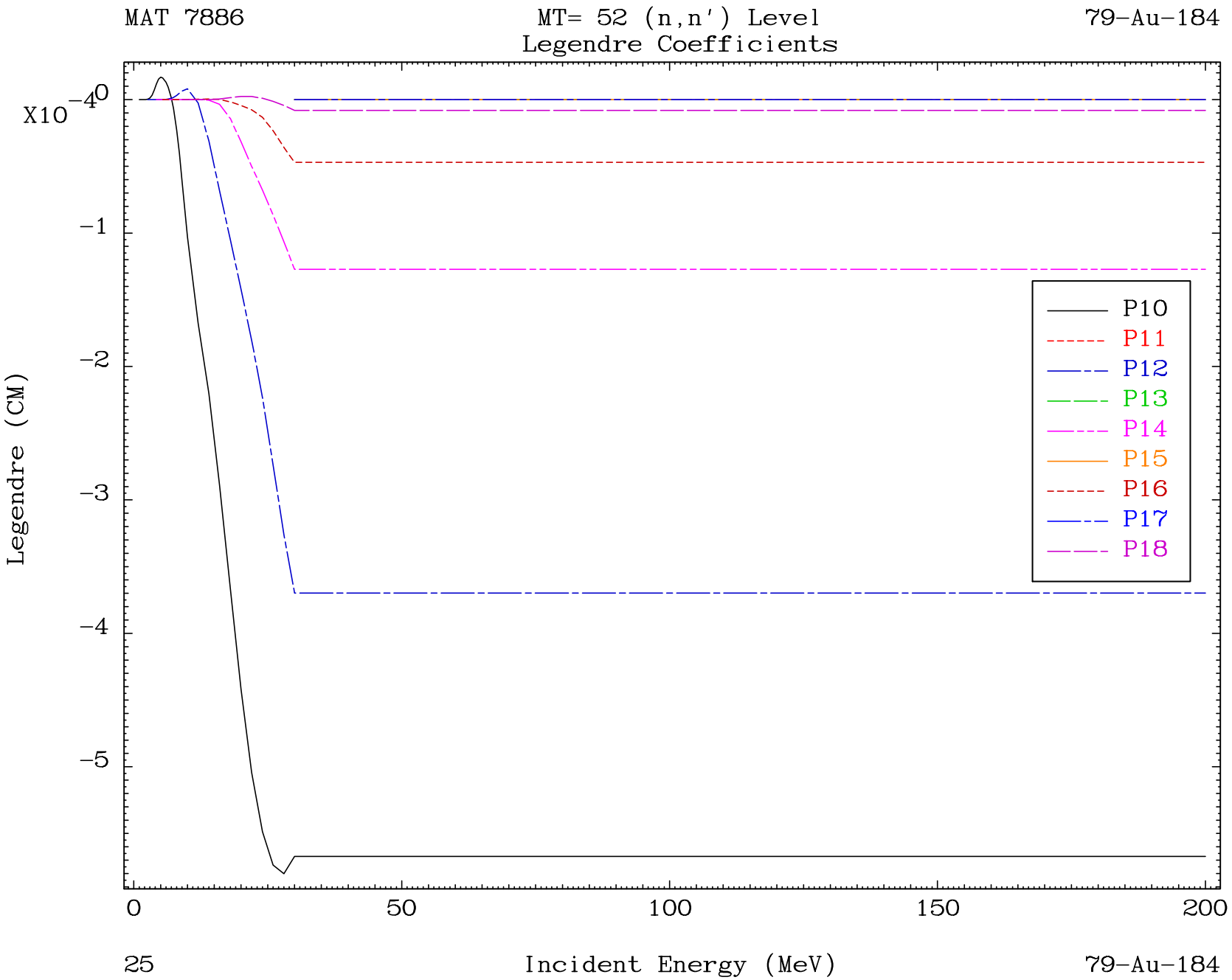

MAT 7886
MT= 51 (n,n') Level
Legendre Coefficients
79-Au-184
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
Legendre (CM)
1.0
0.8
0.6
0.4
0.2
0.0
0
50
100
150
200
20
Incident Energy (MeV)
79-Au-184

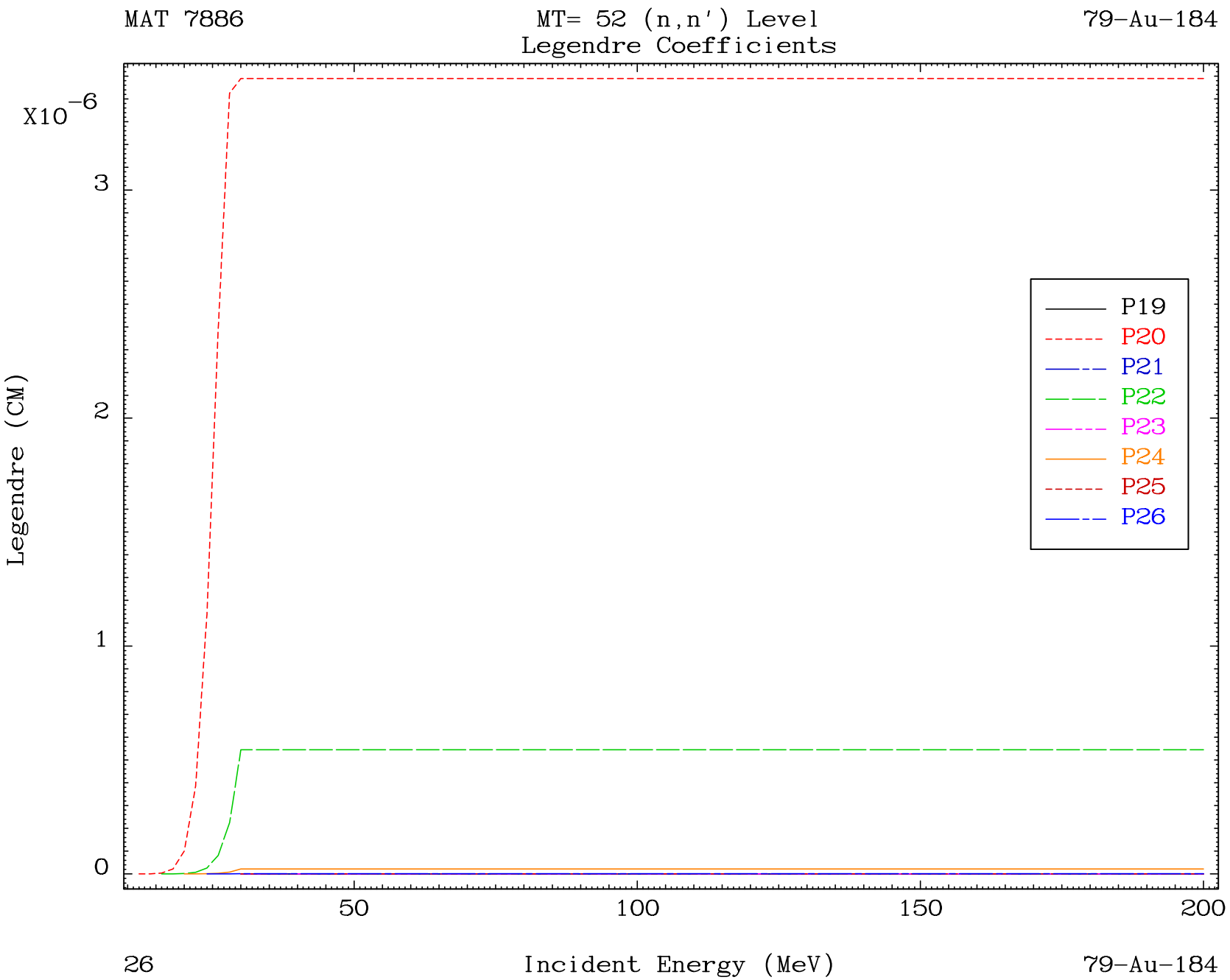

MAT 7886
MT= 51 (n,n') Level
Legendre Coefficients
79-Au-184
0.06
0.04
0.02
0.00
-0.02
Legendre (CM)
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0
50
100
150
200
21
Incident Energy (MeV)
79-Au-184

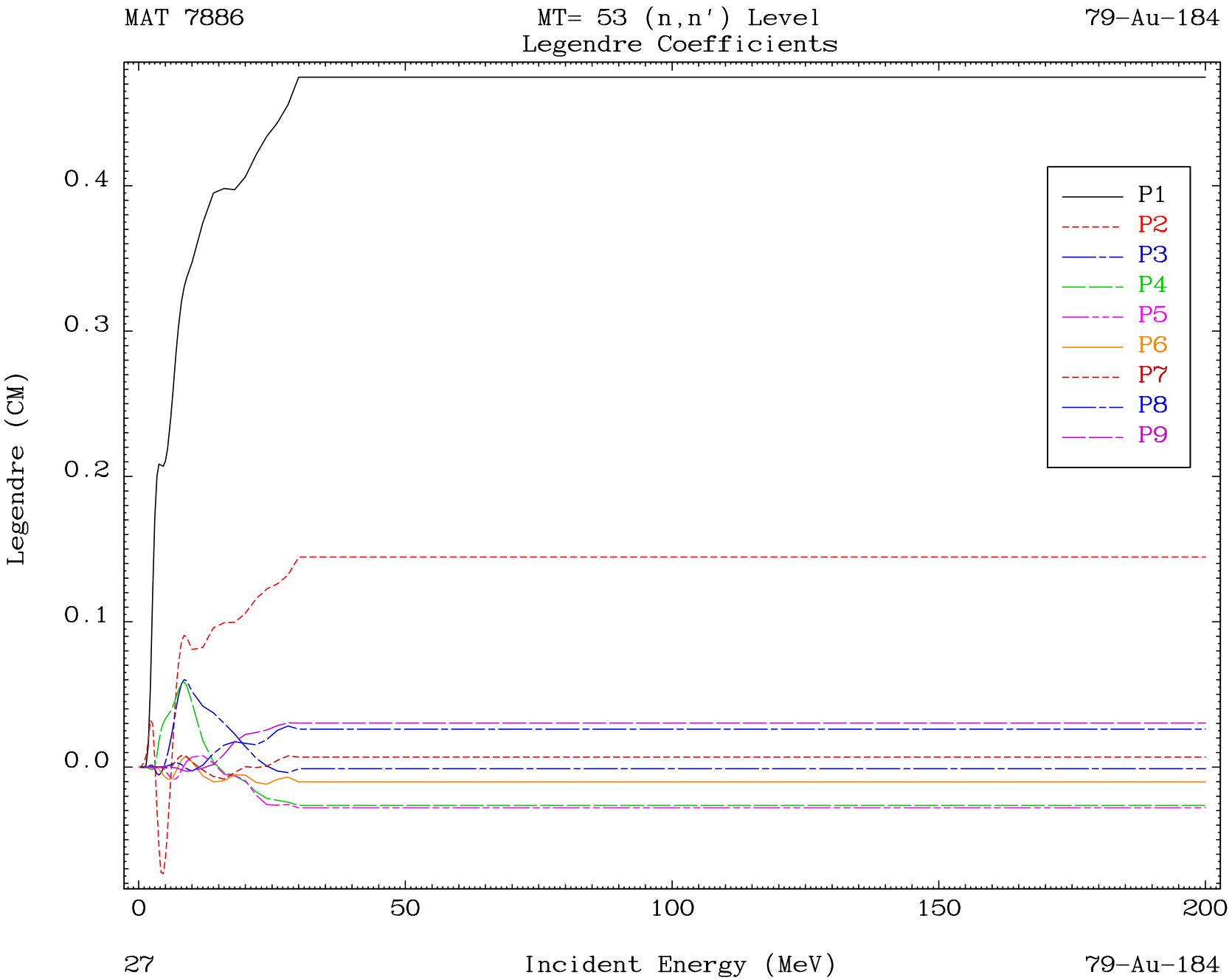

MAT 7886
MT= 51 (n,n') Level
Legendre Coefficients
79-Au-184
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
0.015
0.010
0.005
0.000
Legendre (CM)
50
100
150
200
22
Incident Energy (MeV)
79-Au-184

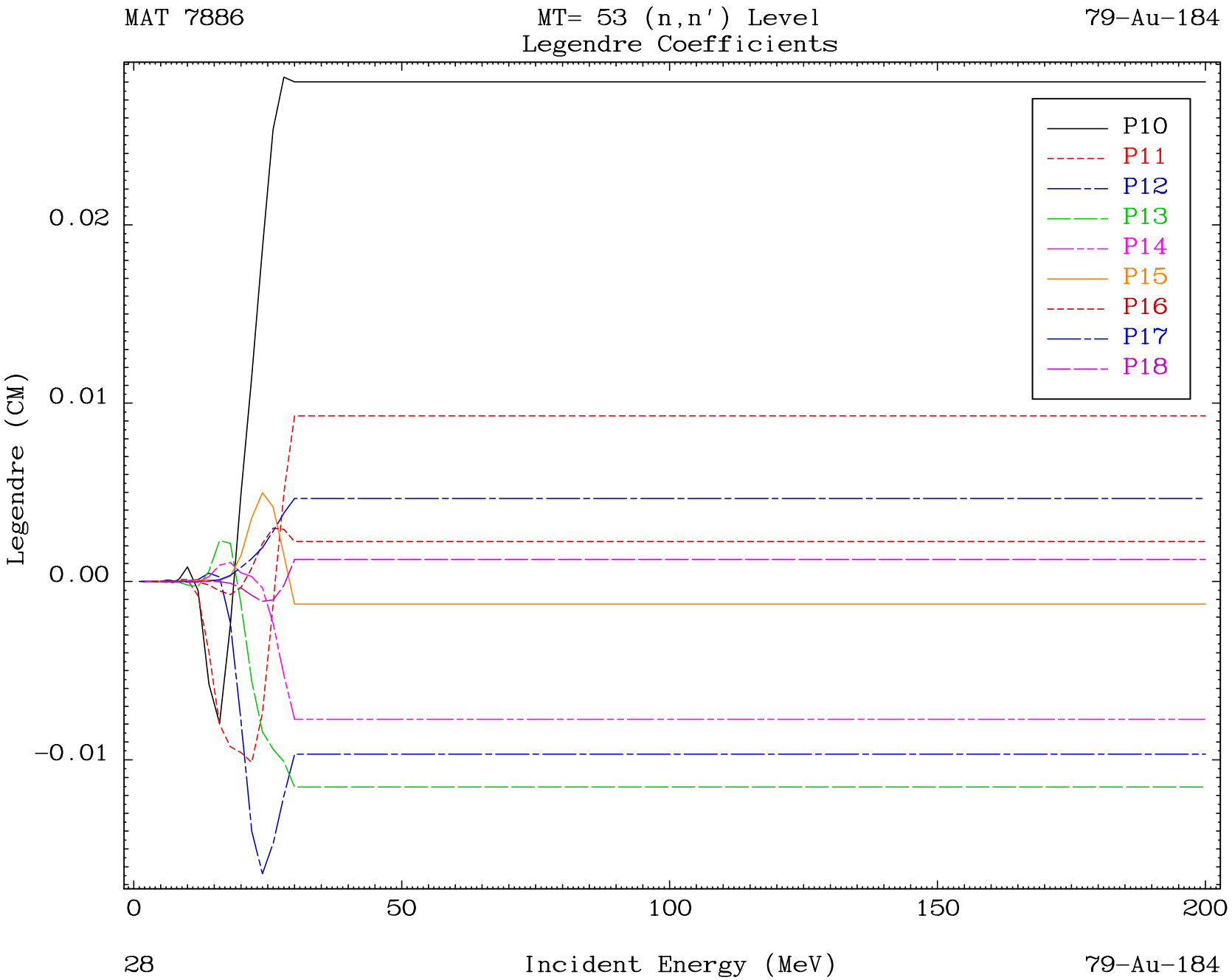

MAT 7886
MT= 51 (n,n') Level
Legendre Coefficients
79-Au-184
X10^-6
1.5
1.0
0.5
0.0
Legendre (CM)
P31
P32
P33
P34
P35
P36
P37
P38
50
100
150
200
23
Incident Energy (MeV)
79-Au-184

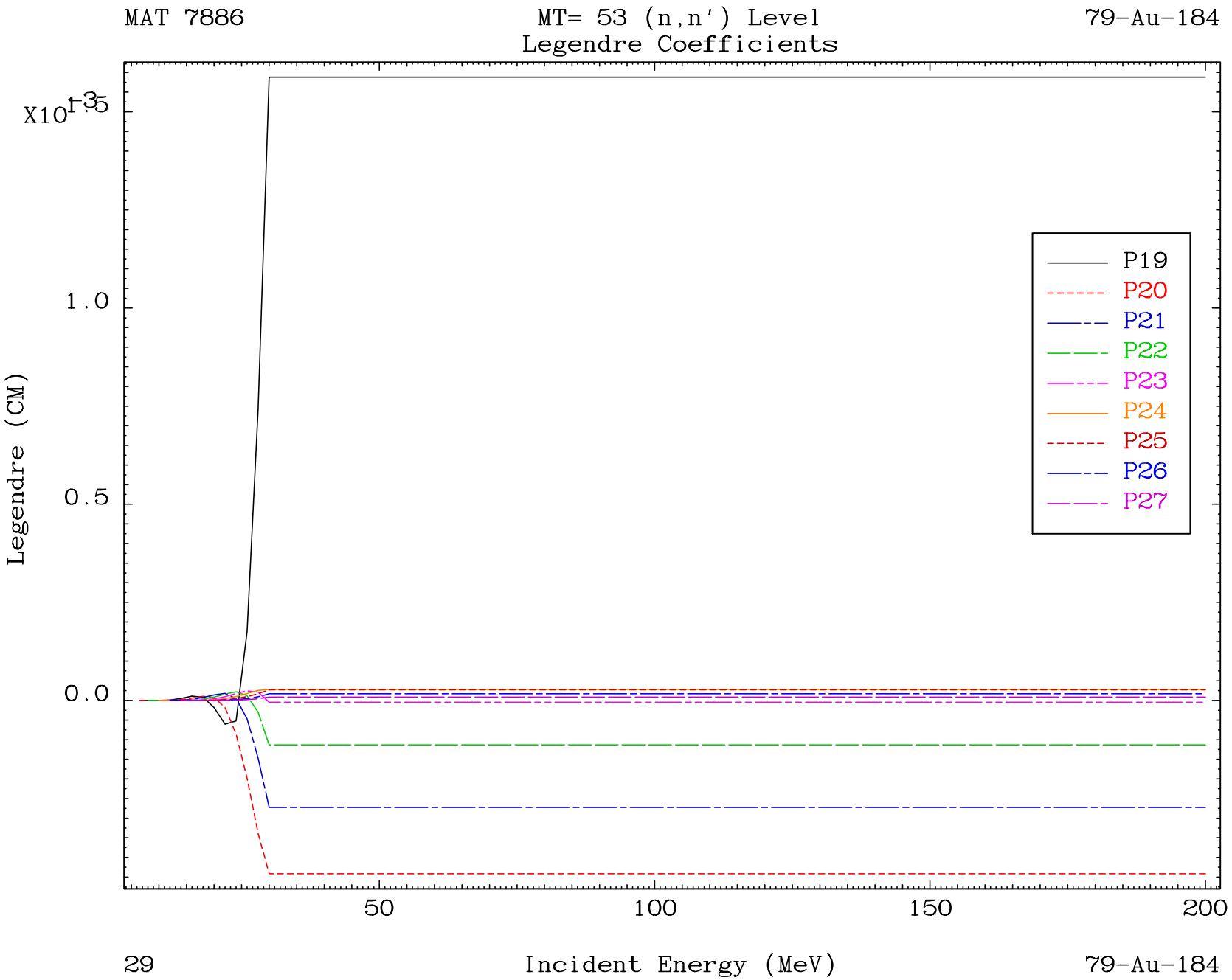

MAT 7886
MT= 52 (n,n') Level
Legendre Coefficients
79-Au-184
0.06
0.04
0.02
0.00
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
24
Incident Energy (MeV)
79-Au-184

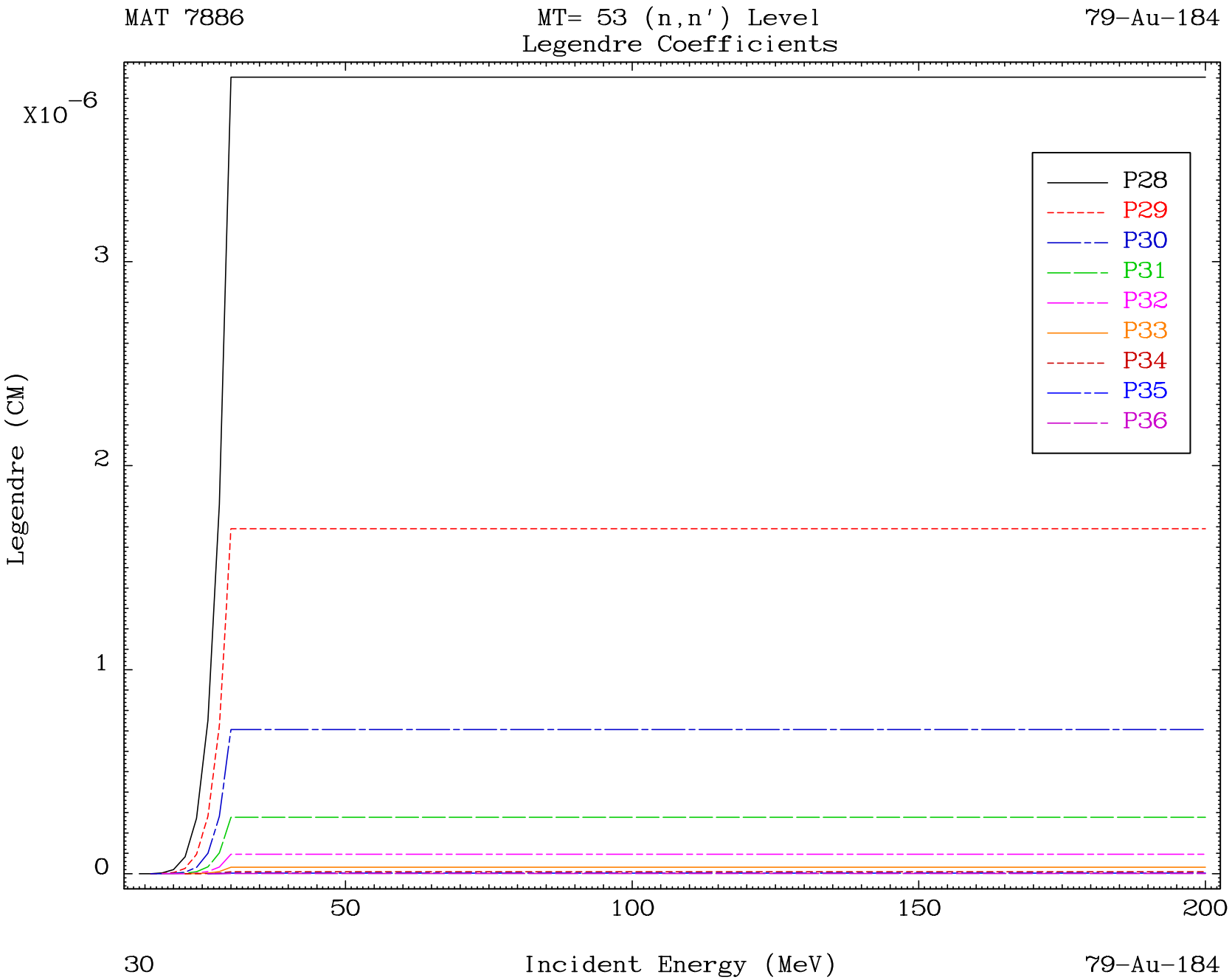

MAT 7886
MT= 52 (n,n') Level
Legendre Coefficients
79-Au-184
X10^-4
0
-1
-2
-3
-4
-5
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
25
Incident Energy (MeV)
79-Au-184

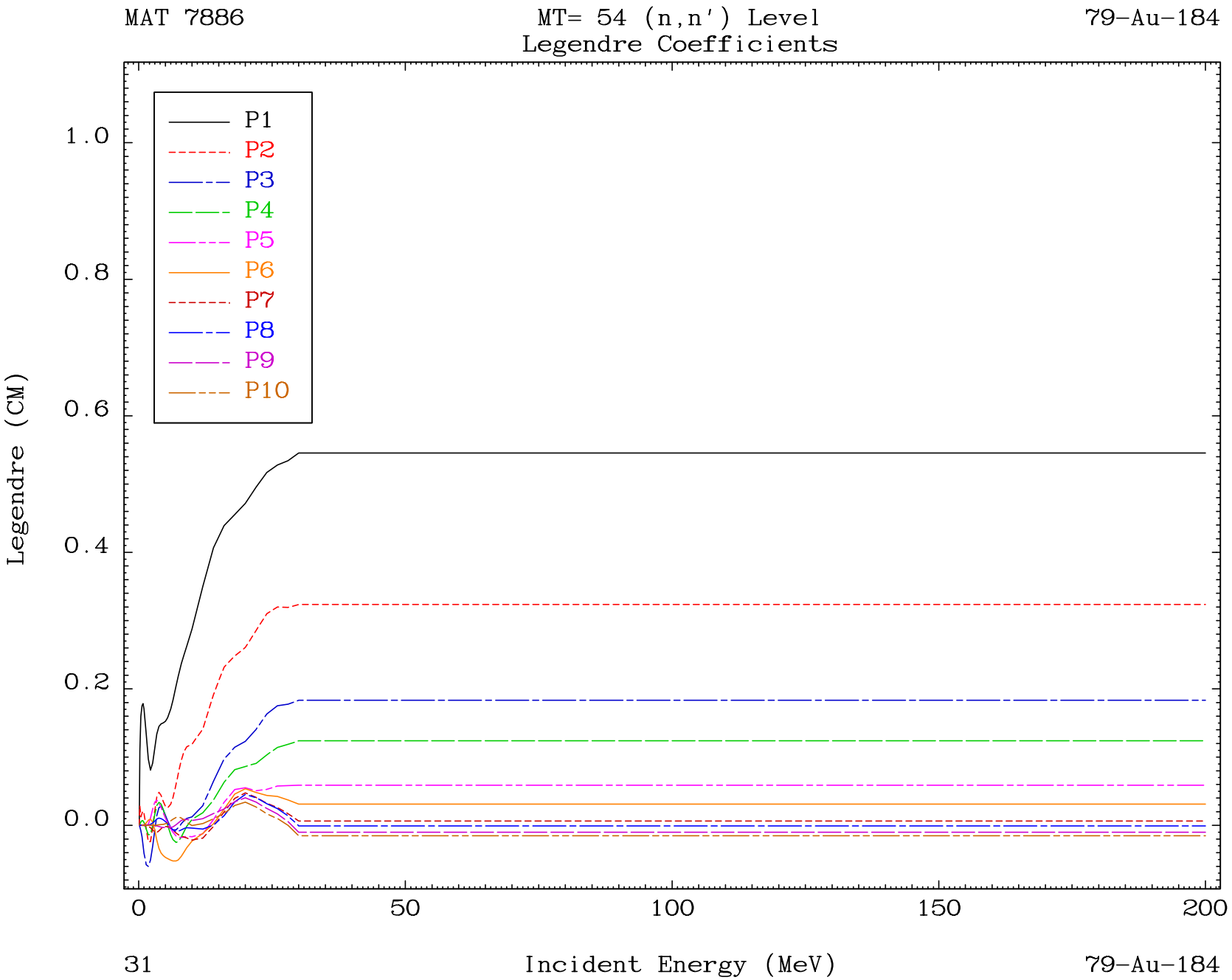

MAT 7886
MT= 52 (n,n') Level
Legendre Coefficients
79-Au-184
X10^-6
3
2
1
0
Legendre (CM)
50
100
150
200
26
Incident Energy (MeV)
79-Au-184
P19
P20
P21
P22
P23
P24
P25
P26

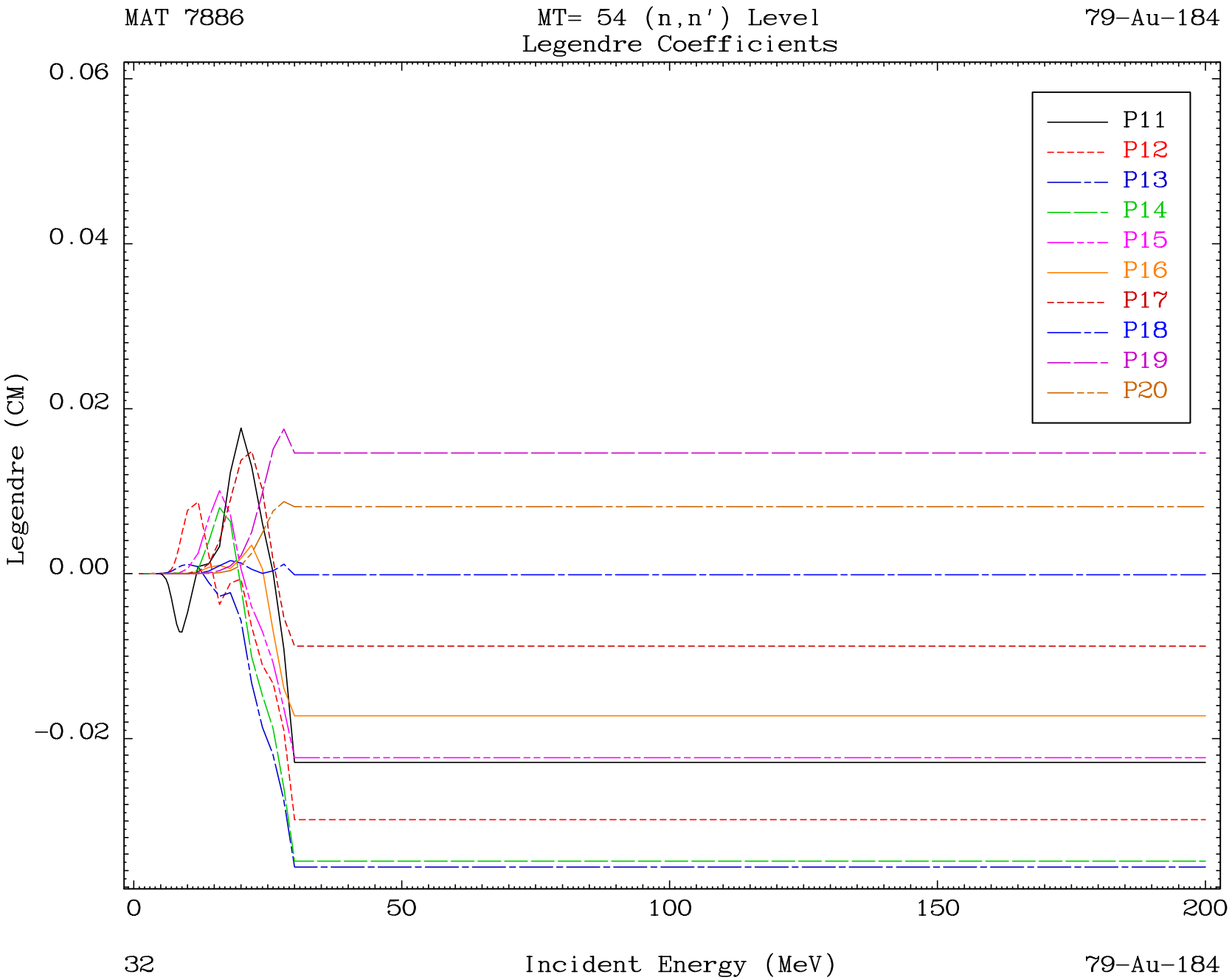

MAT 7886
MT= 53 (n,n') Level
Legendre Coefficients
79-Au-184
Legendre (CM)
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
27
Incident Energy (MeV)
79-Au-184

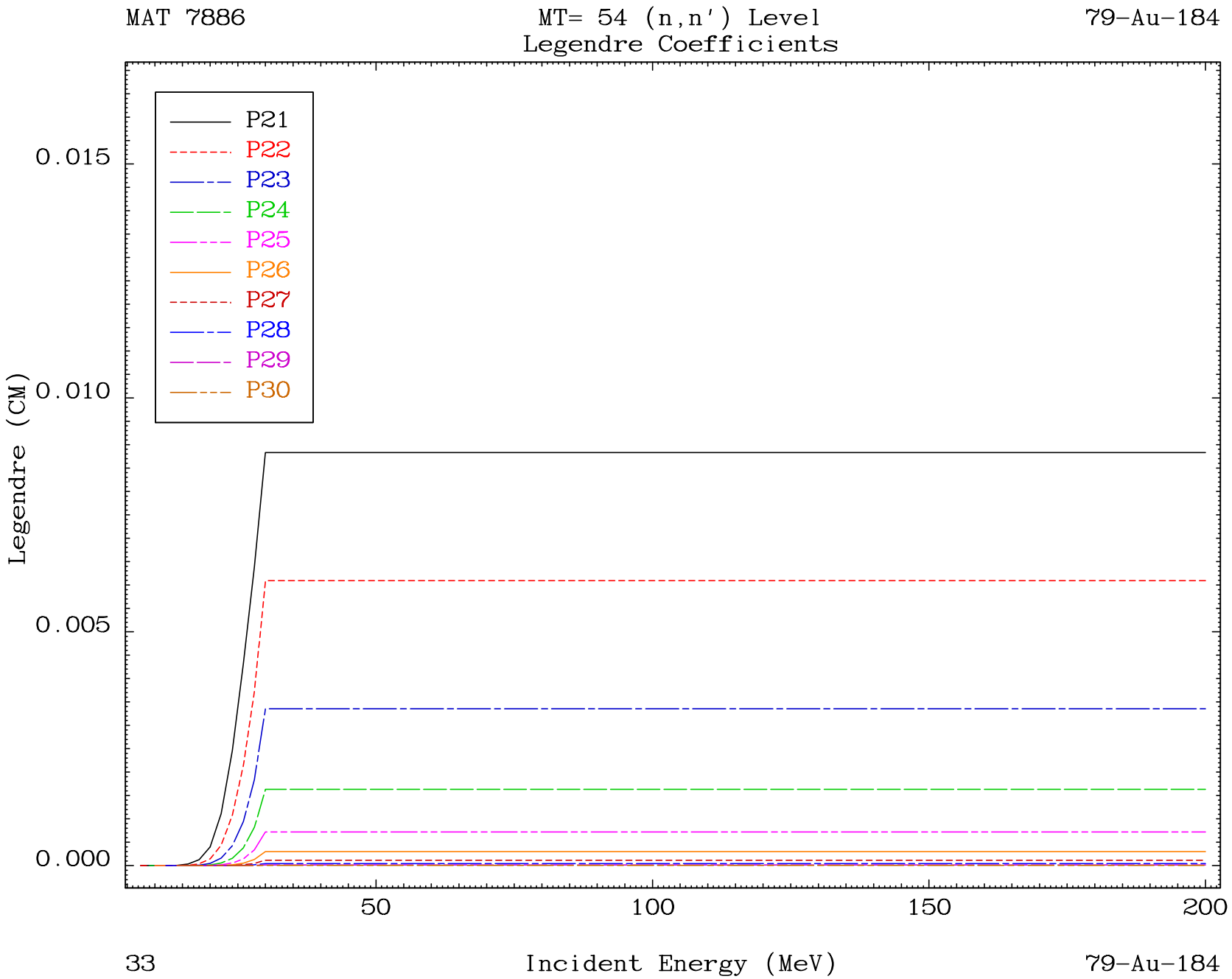

MAT 7886
MT= 53 (n,n') Level
Legendre Coefficients
79-Au-184
P10
P11
P12
P13
P14
P15
P16
P17
P18
0.02
0.01
0.00
-0.01
Legendre (CM)
0
50
100
150
200
28
Incident Energy (MeV)
79-Au-184

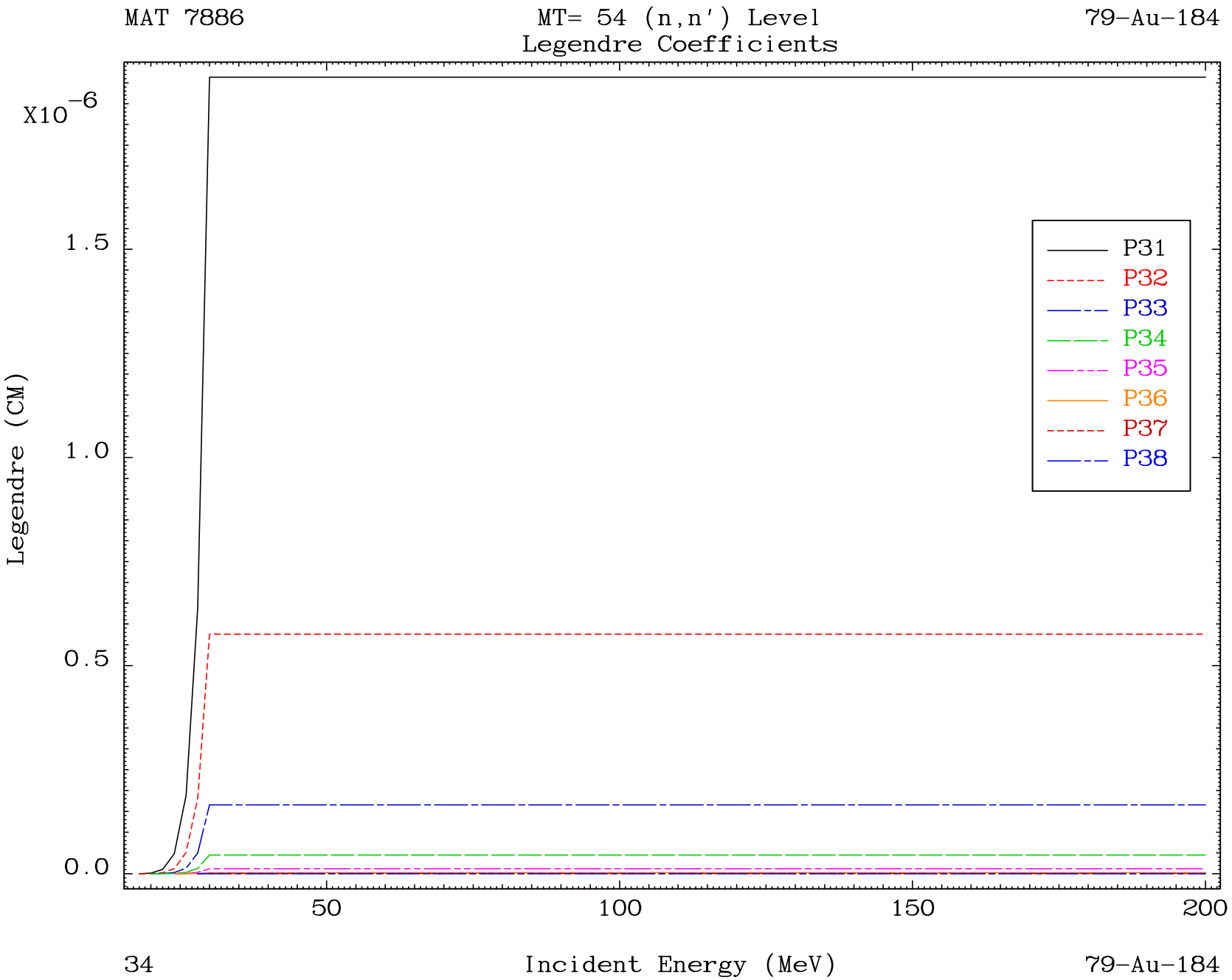

MAT 7886
MT= 53 (n,n') Level
Legendre Coefficients
79-Au-184
X10-3
1.5
1.0
0.5
0.0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
P27
50
100
150
200
29
Incident Energy (MeV)
79-Au-184

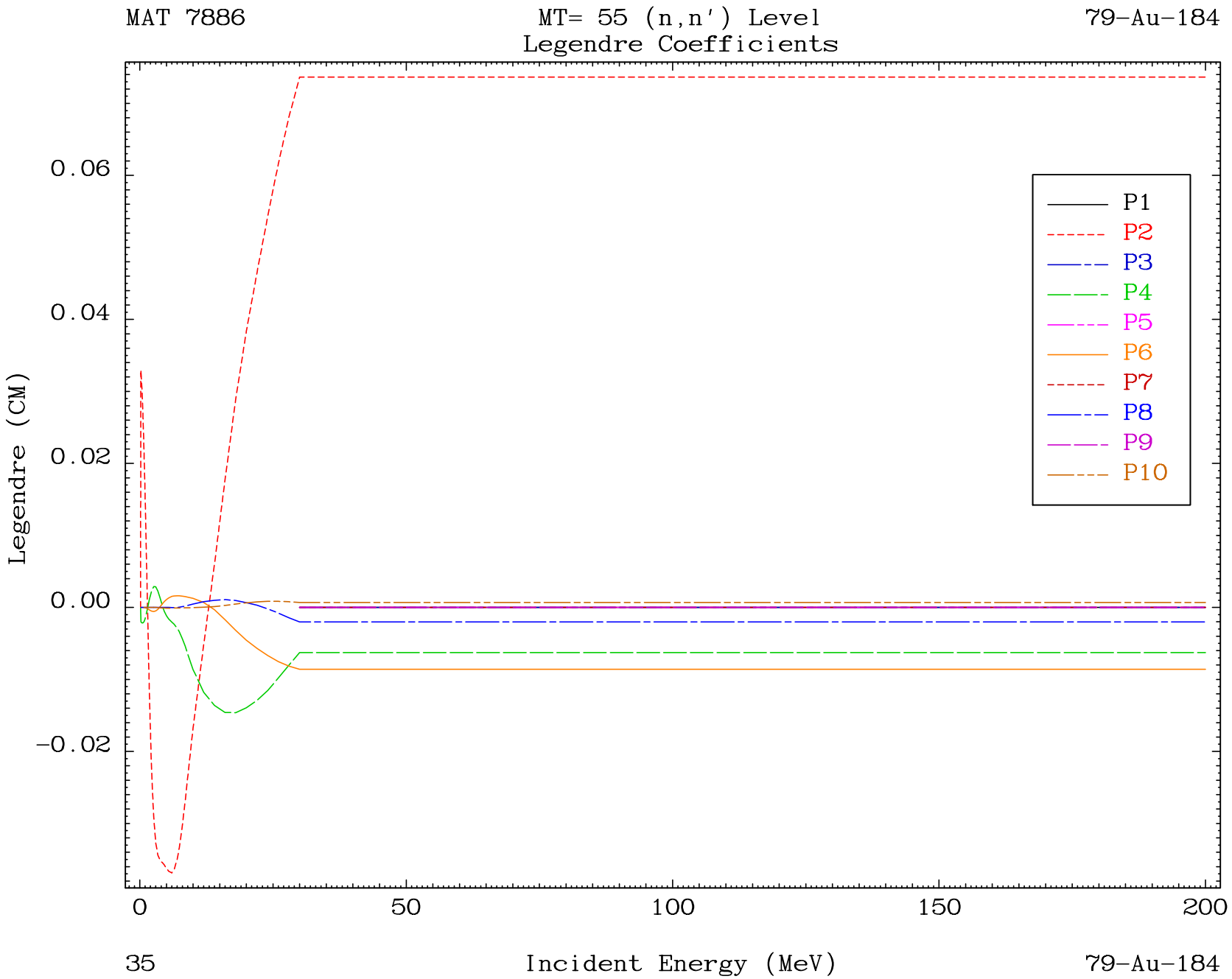

MAT 7886
MT= 53 (n,n') Level
Legendre Coefficients
79-Au-184
X10^-6
3
2
1
0
Legendre (CM)
P28
P29
P30
P31
P32
P33
P34
P35
P36
50
100
150
200
30
Incident Energy (MeV)
79-Au-184

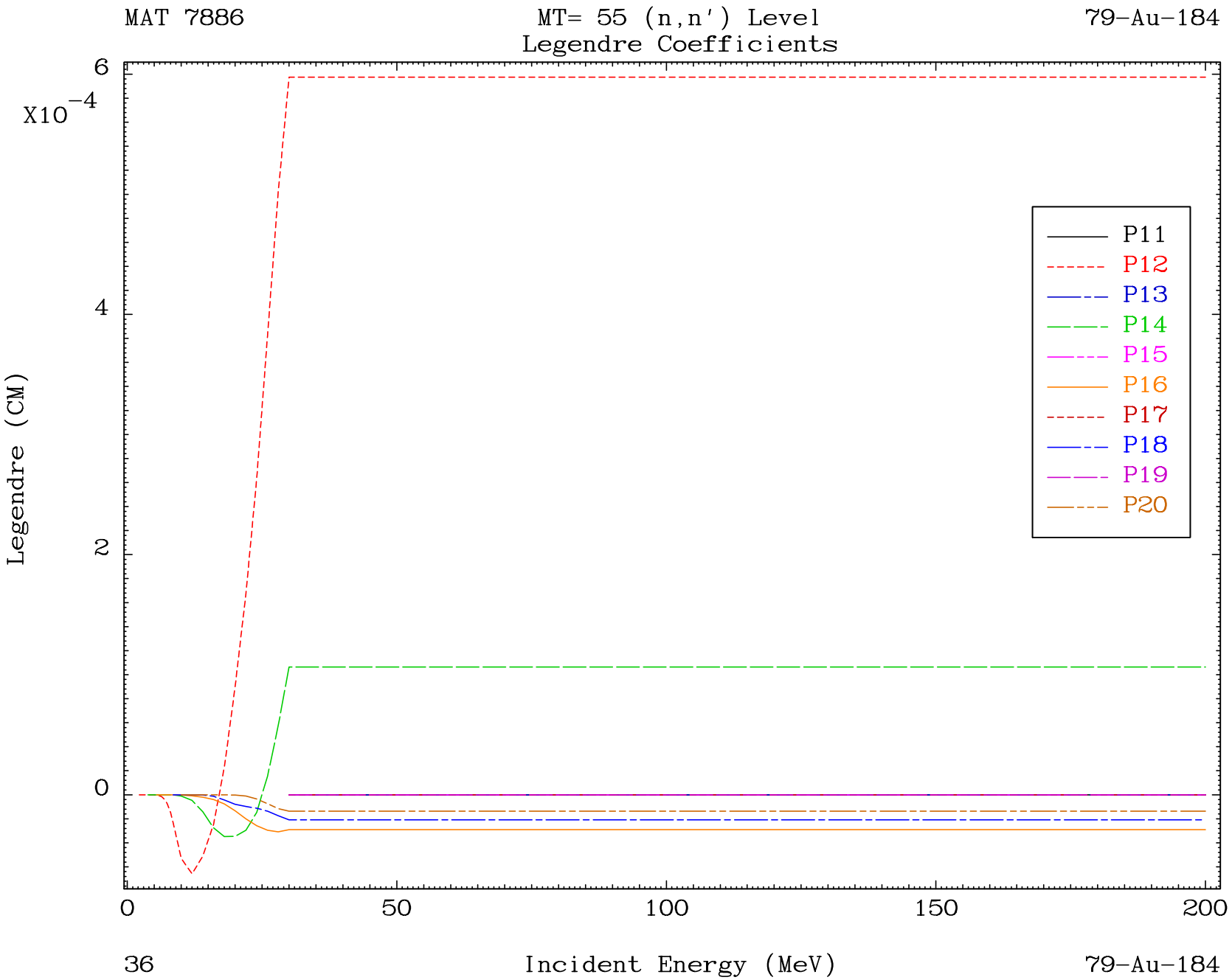

MAT 7886
MT= 54 (n,n') Level
Legendre Coefficients
79-Au-184
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
Legendre (CM)
1.0
0.8
0.6
0.4
0.2
0.0
0
50
100
150
200
31
Incident Energy (MeV)
79-Au-184

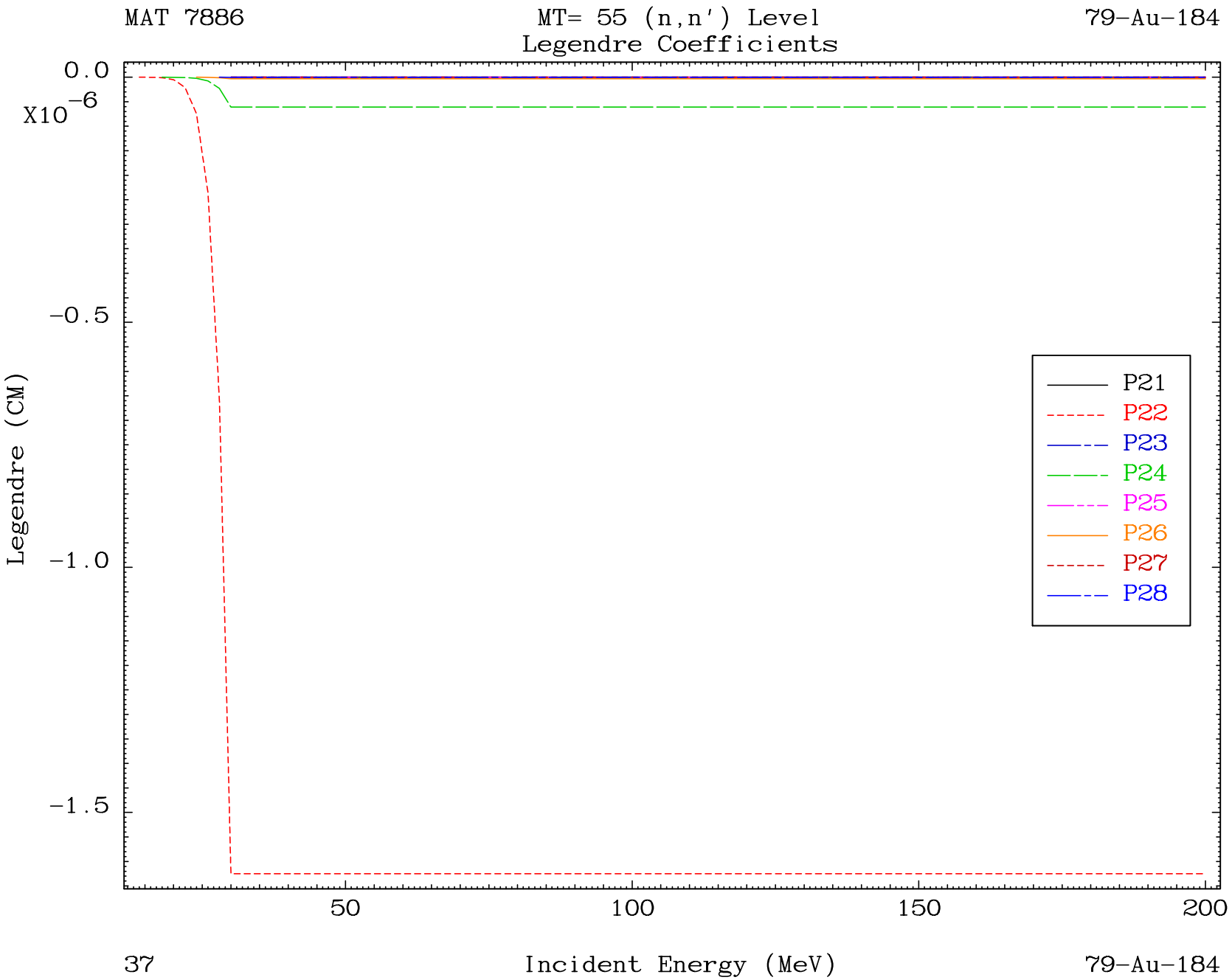

MAT 7886
MT= 54 (n,n') Level
Legendre Coefficients
79-Au-184
0.06
0.04
0.02
0.00
-0.02
Legendre (CM)
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0
50
100
150
200
32
Incident Energy (MeV)
79-Au-184

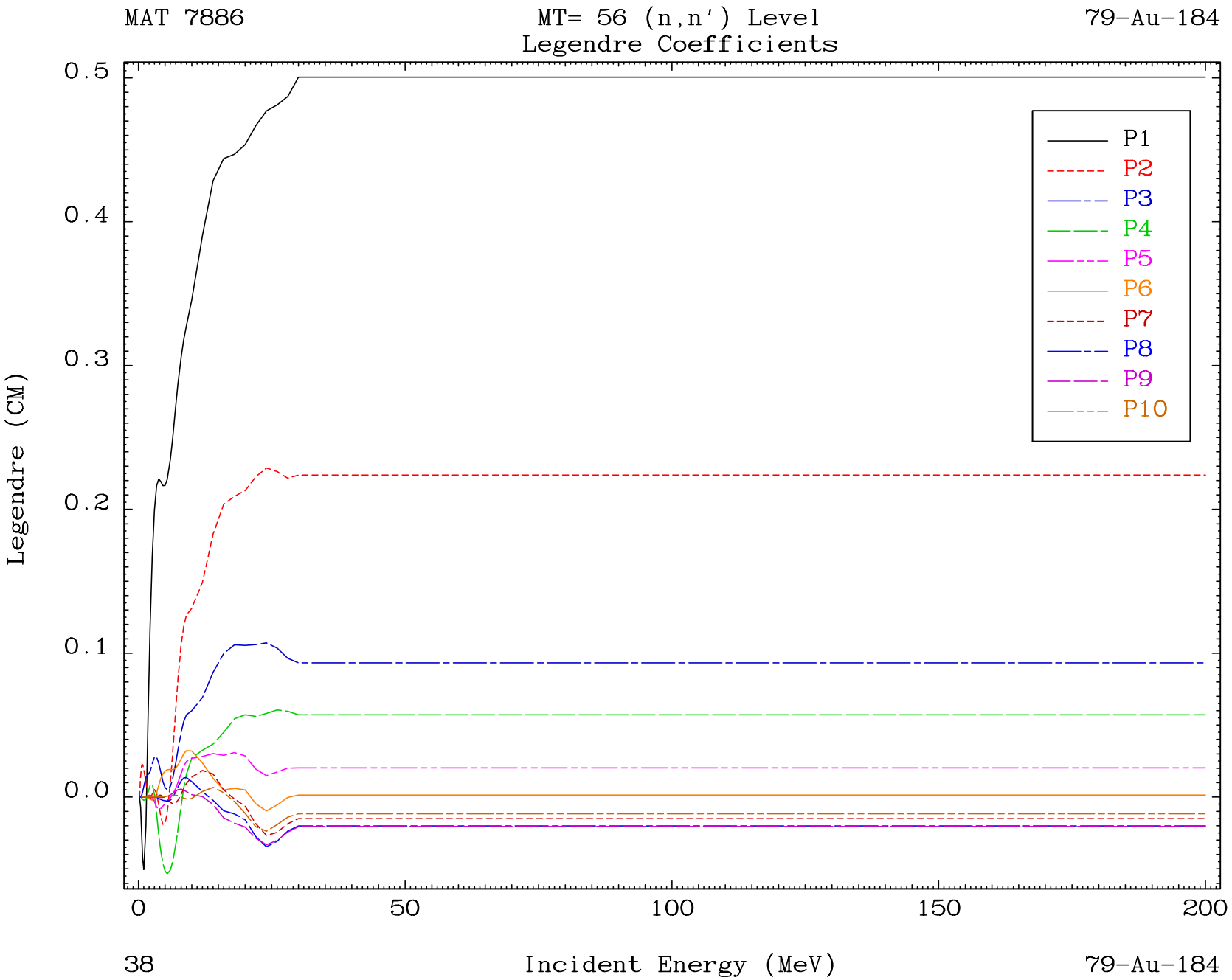

MAT 7886
MT= 54 (n,n') Level
Legendre Coefficients
79-Au-184
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
0.015
0.010
0.005
0.000
Legendre (CM)
50
100
150
200
33
Incident Energy (MeV)
79-Au-184

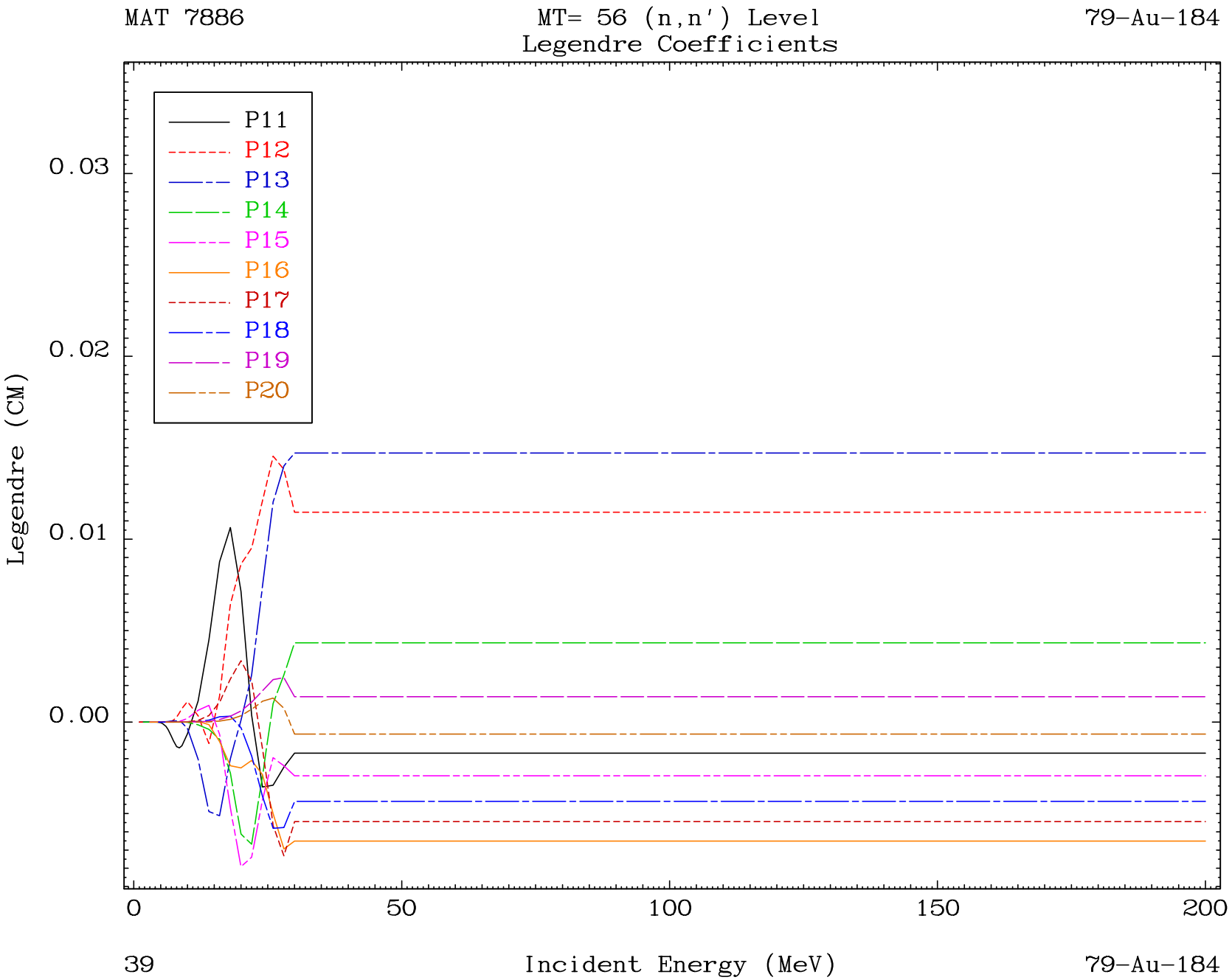

MAT 7886
MT= 54 (n,n') Level
Legendre Coefficients
79-Au-184
X10^-6
1.5
1.0
0.5
0.0
Legendre (CM)
P31
P32
P33
P34
P35
P36
P37
P38
50
100
150
200
34
Incident Energy (MeV)
79-Au-184

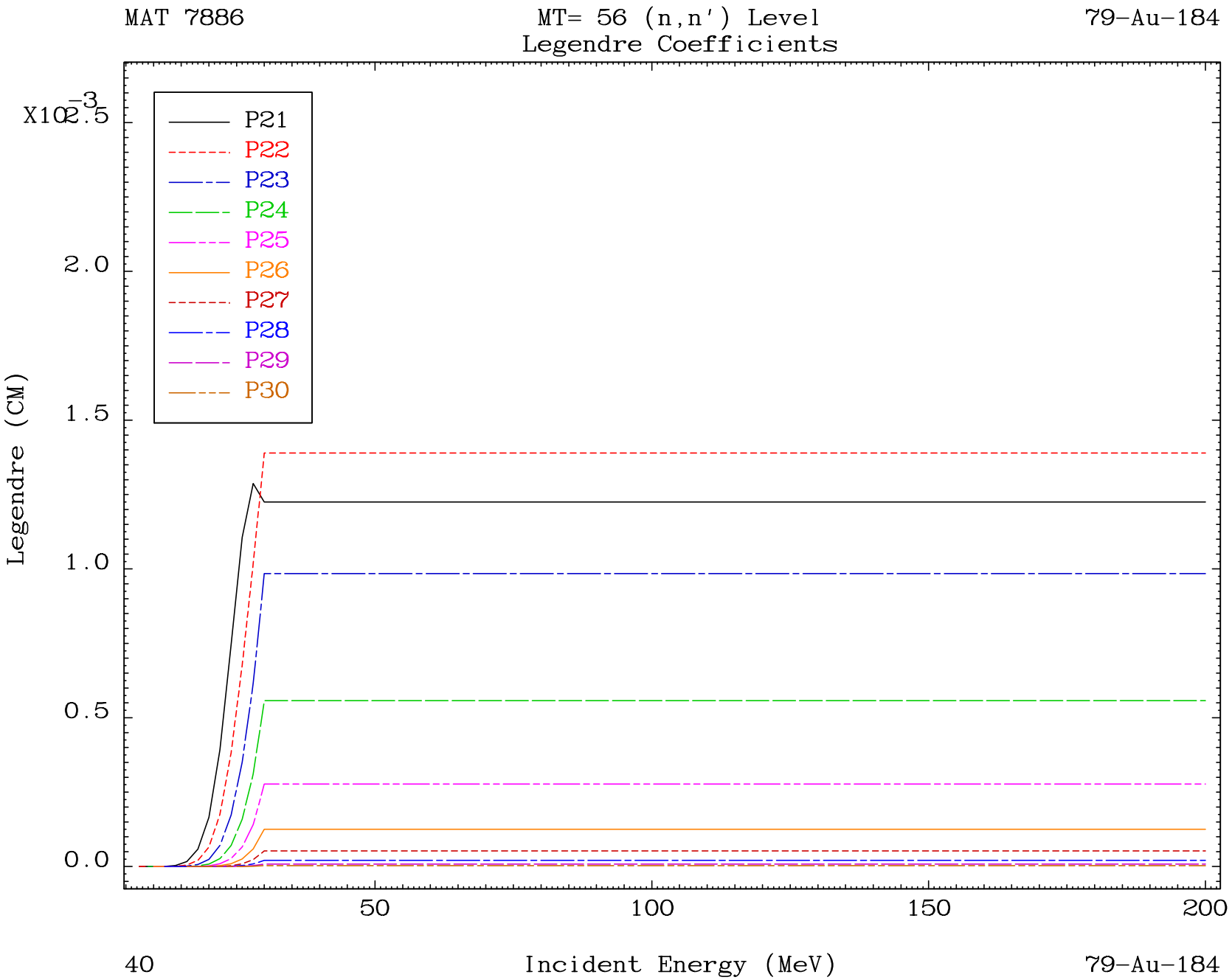

MAT 7886
MT= 55 (n,n') Level
Legendre Coefficients
79-Au-184
0.06
0.04
0.02
0.00
-0.02
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
0
50
100
150
200
35
Incident Energy (MeV)
79-Au-184

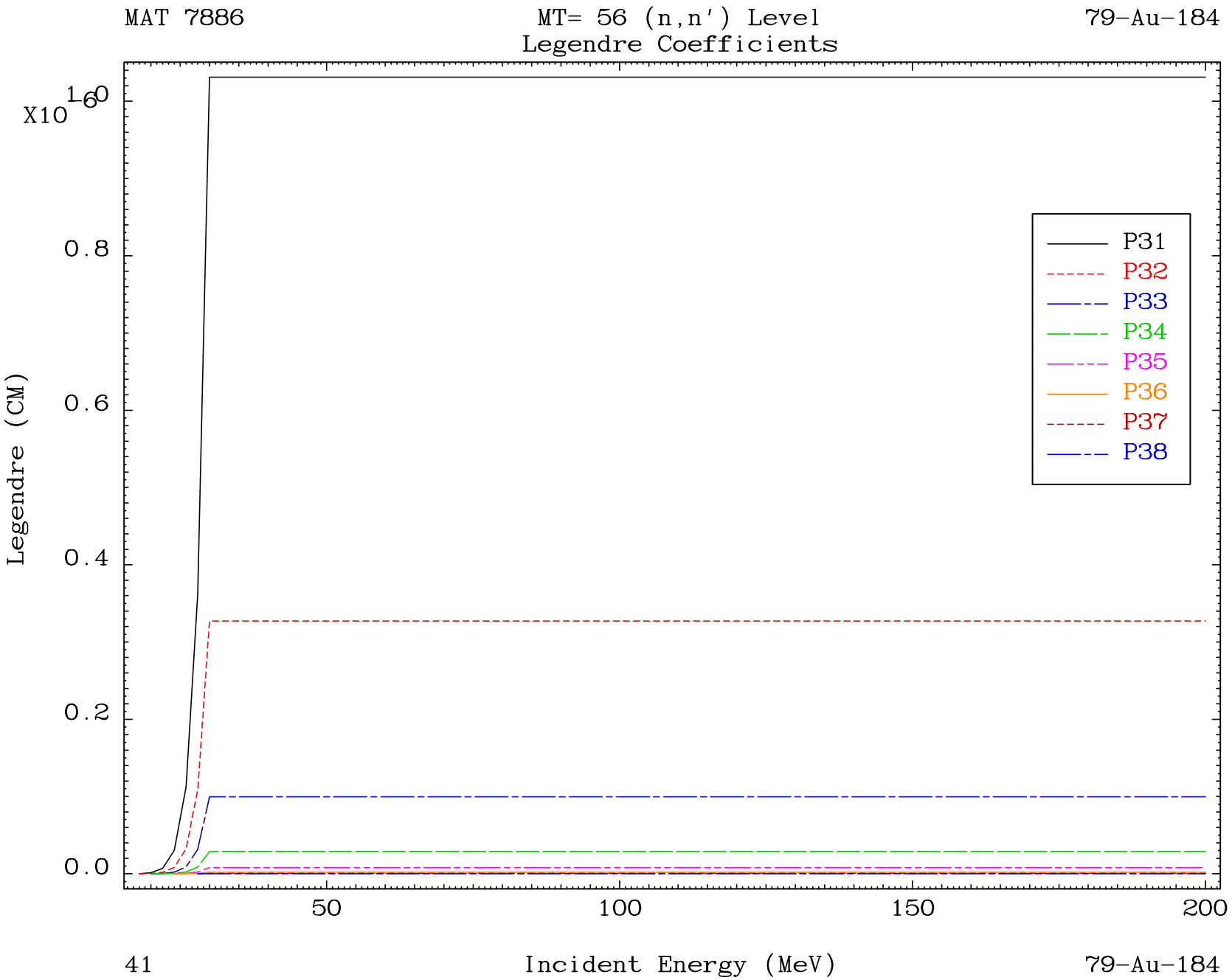

MAT 7886
MT= 55 (n,n') Level
Legendre Coefficients
79-Au-184
X10^-4
6
4
2
0
Legendre (CM)
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0
50
100
150
200
36
Incident Energy (MeV)
79-Au-184

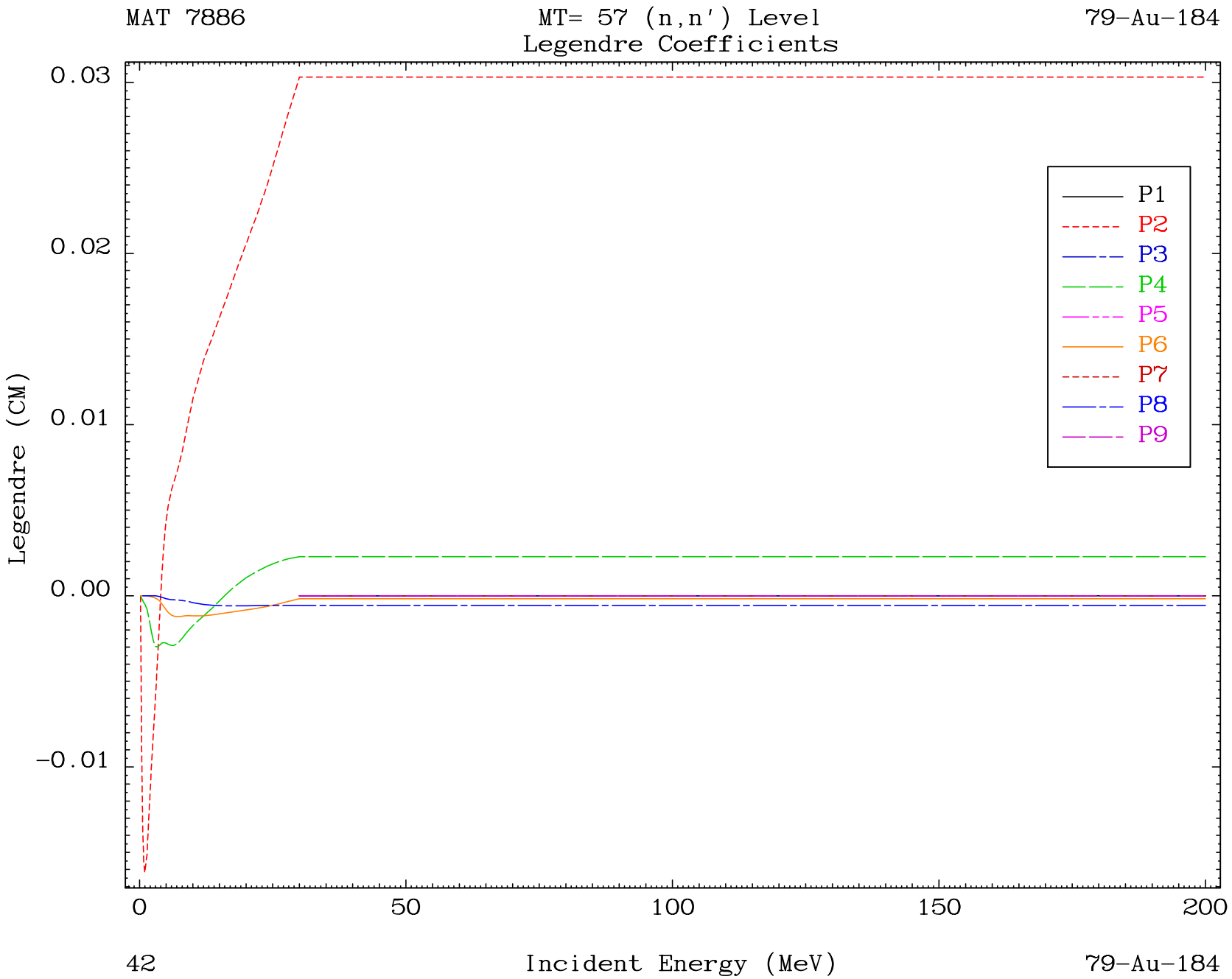

MAT 7886
MT= 55 (n,n') Level
Legendre Coefficients
79-Au-184
0.0
X10^-6
-0.5
-1.0
-1.5
Legendre (CM)
50
100
150
200
37
Incident Energy (MeV)
79-Au-184
P21
P22
P23
P24
P25
P26
P27
P28

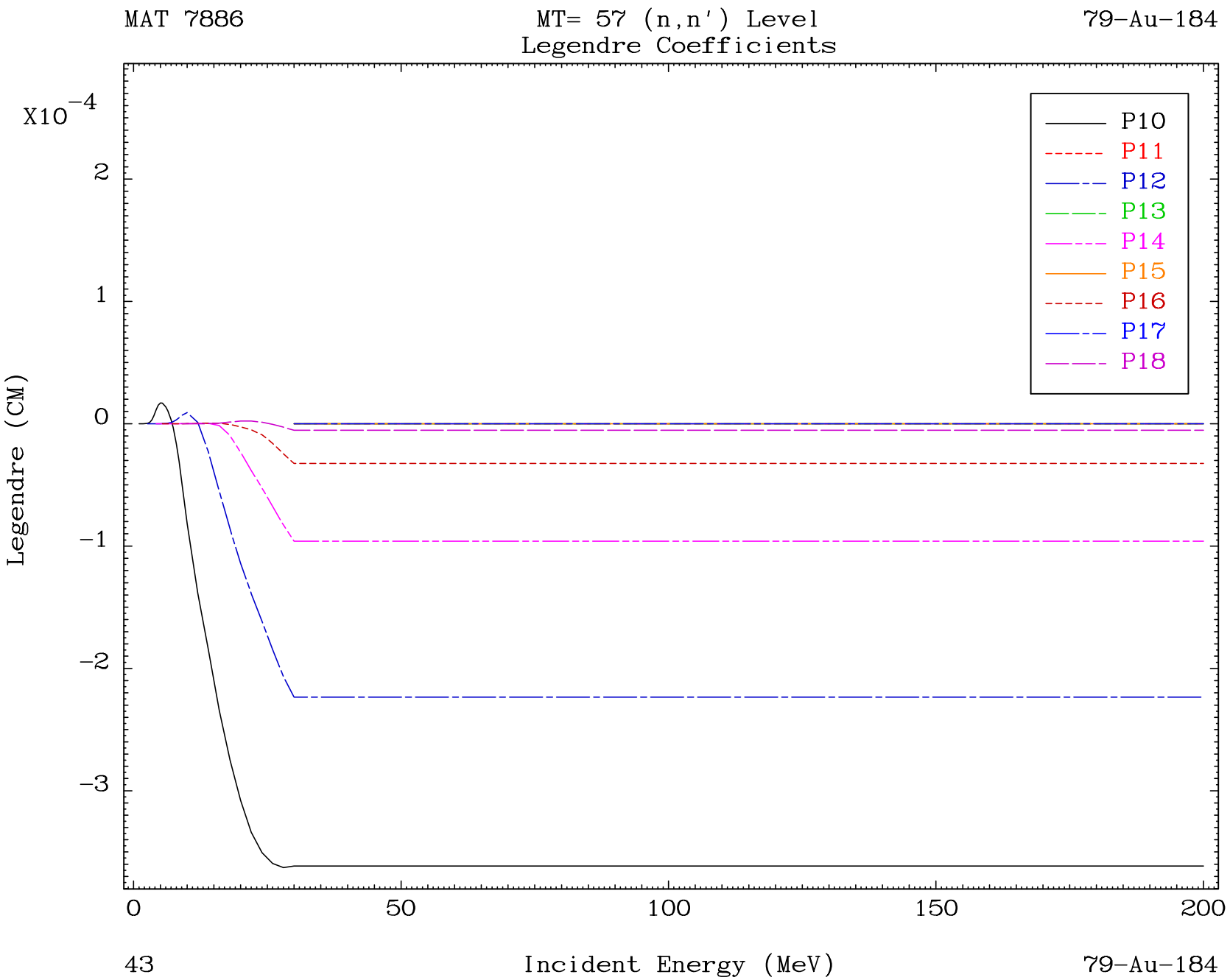

MAT 7886
MT= 56 (n,n') Level
Legendre Coefficients
79-Au-184
Legendre (CM)
0.5
0.4
0.3
0.2
0.1
0.0
0
50
100
150
200
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
38
Incident Energy (MeV)
79-Au-184

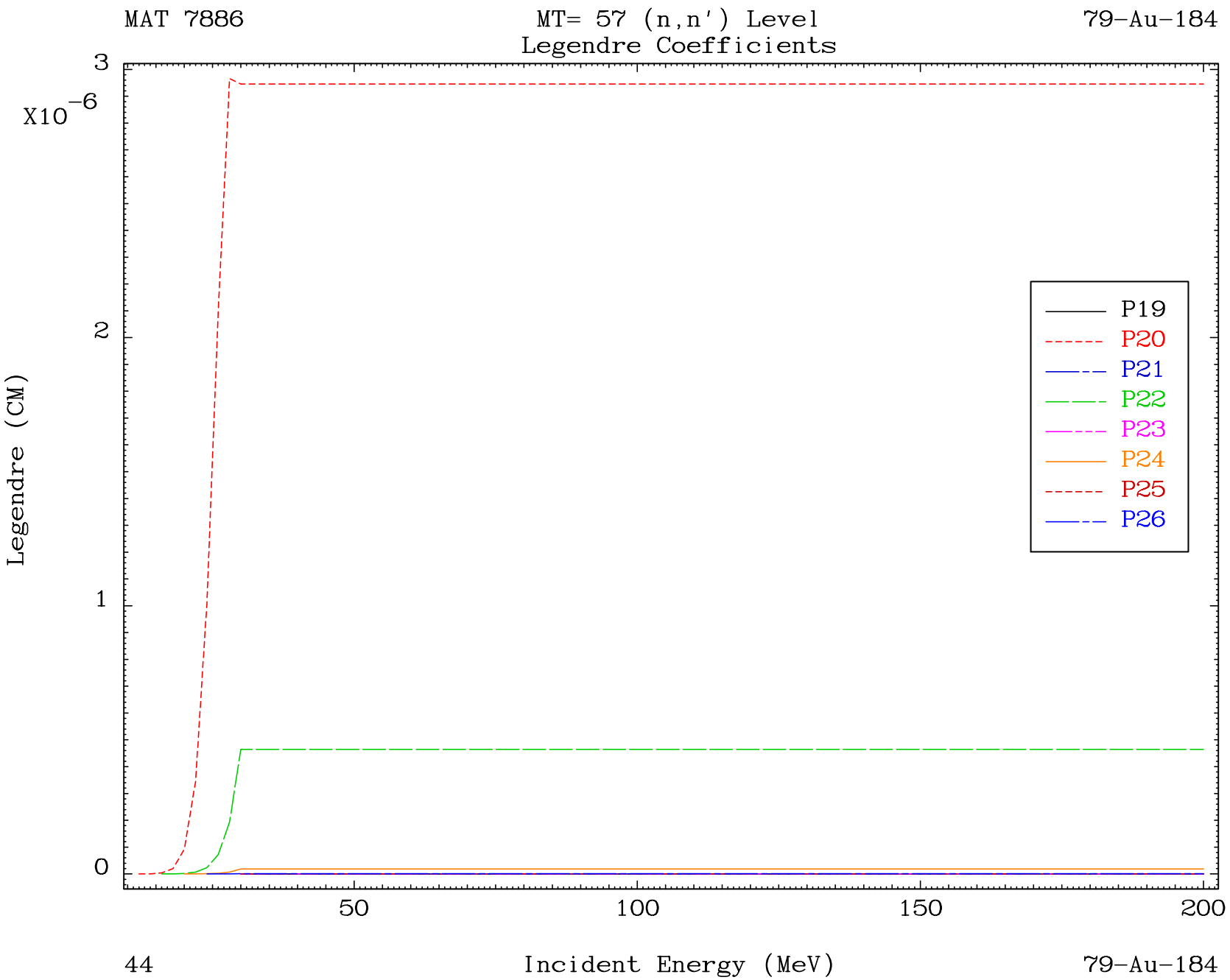

MAT 7886
MT= 56 (n,n') Level
Legendre Coefficients
79-Au-184
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.03
0.02
0.01
0.00
Legendre (CM)
0
50
100
150
200
39
Incident Energy (MeV)
79-Au-184

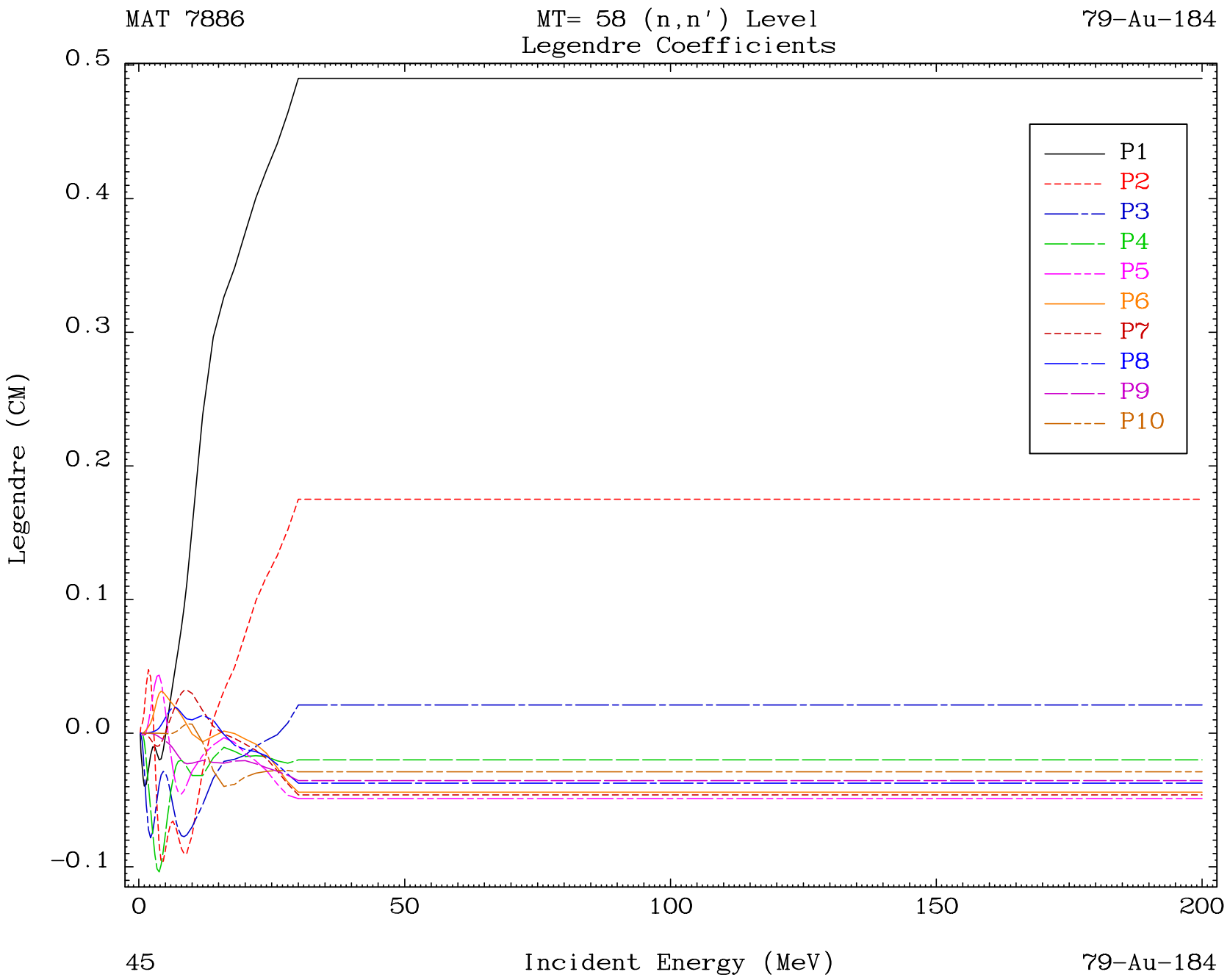

MAT 7886
MT= 56 (n,n') Level
Legendre Coefficients
79-Au-184
X10
-3
2.5
2.0
1.5
1.0
0.5
0.0
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
40
50
100
150
200
Incident Energy (MeV)
79-Au-184

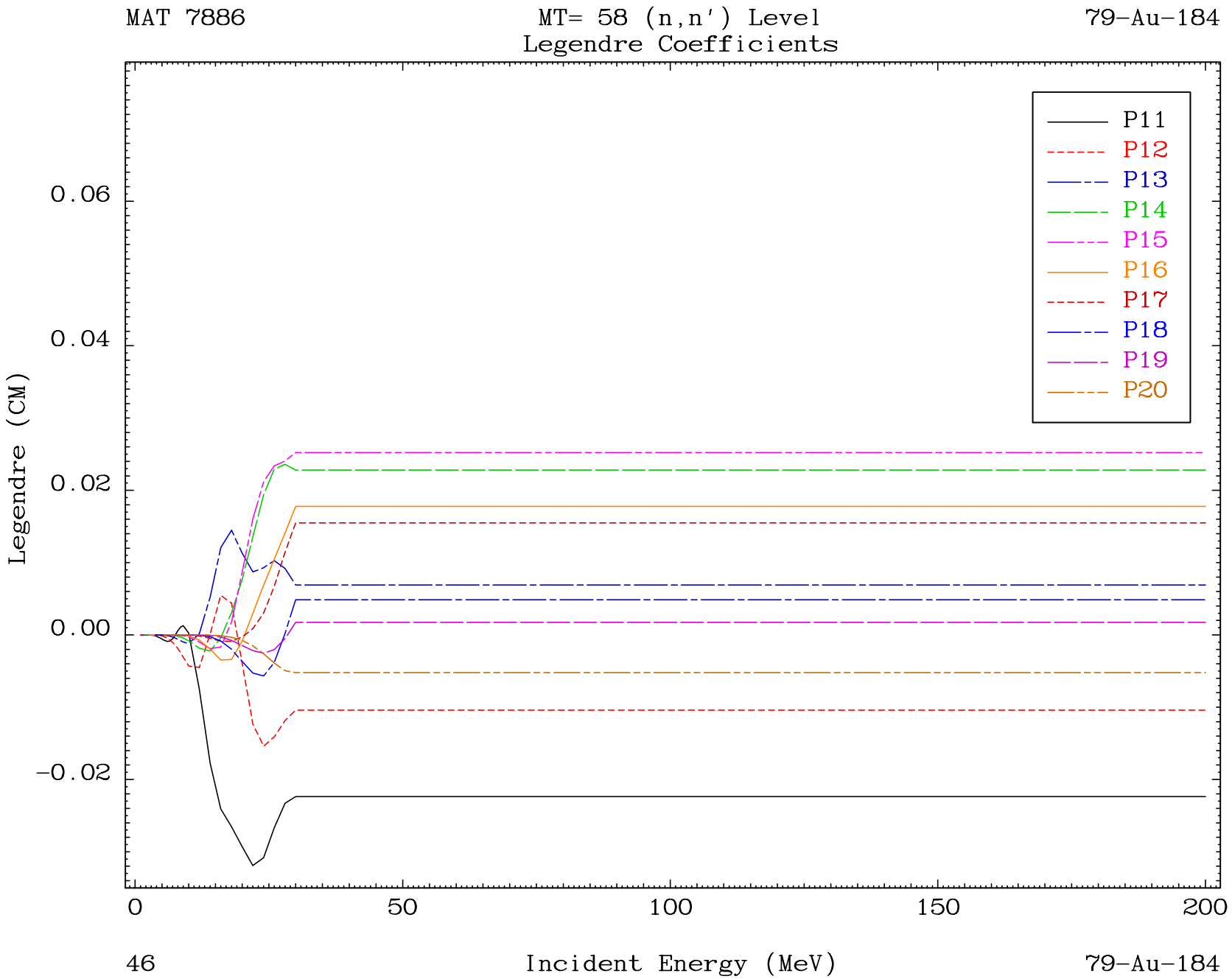

MAT 7886
MT= 56 (n,n') Level
Legendre Coefficients
79-Au-184
X10 -6
1.0
0.8
0.6
0.4
0.2
0.0
Legendre (CM)
50
100
150
200
41
Incident Energy (MeV)
79-Au-184
P31
P32
P33
P34
P35
P36
P37
P38

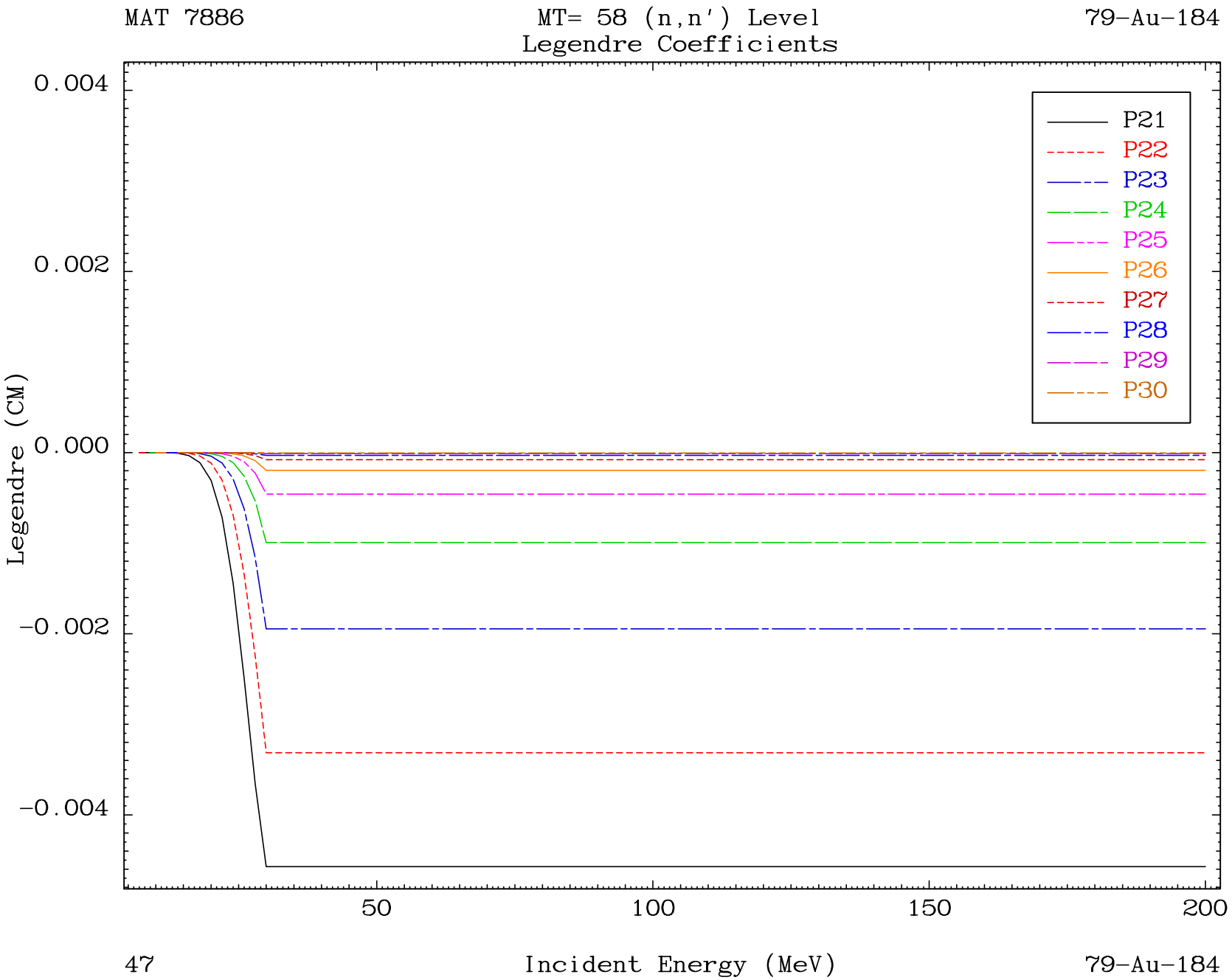

MAT 7886
MT= 57 (n,n') Level
Legendre Coefficients
79-Au-184
0.03
0.02
0.01
0.00
-0.01
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
0
50
100
150
200
42
Incident Energy (MeV)
79-Au-184

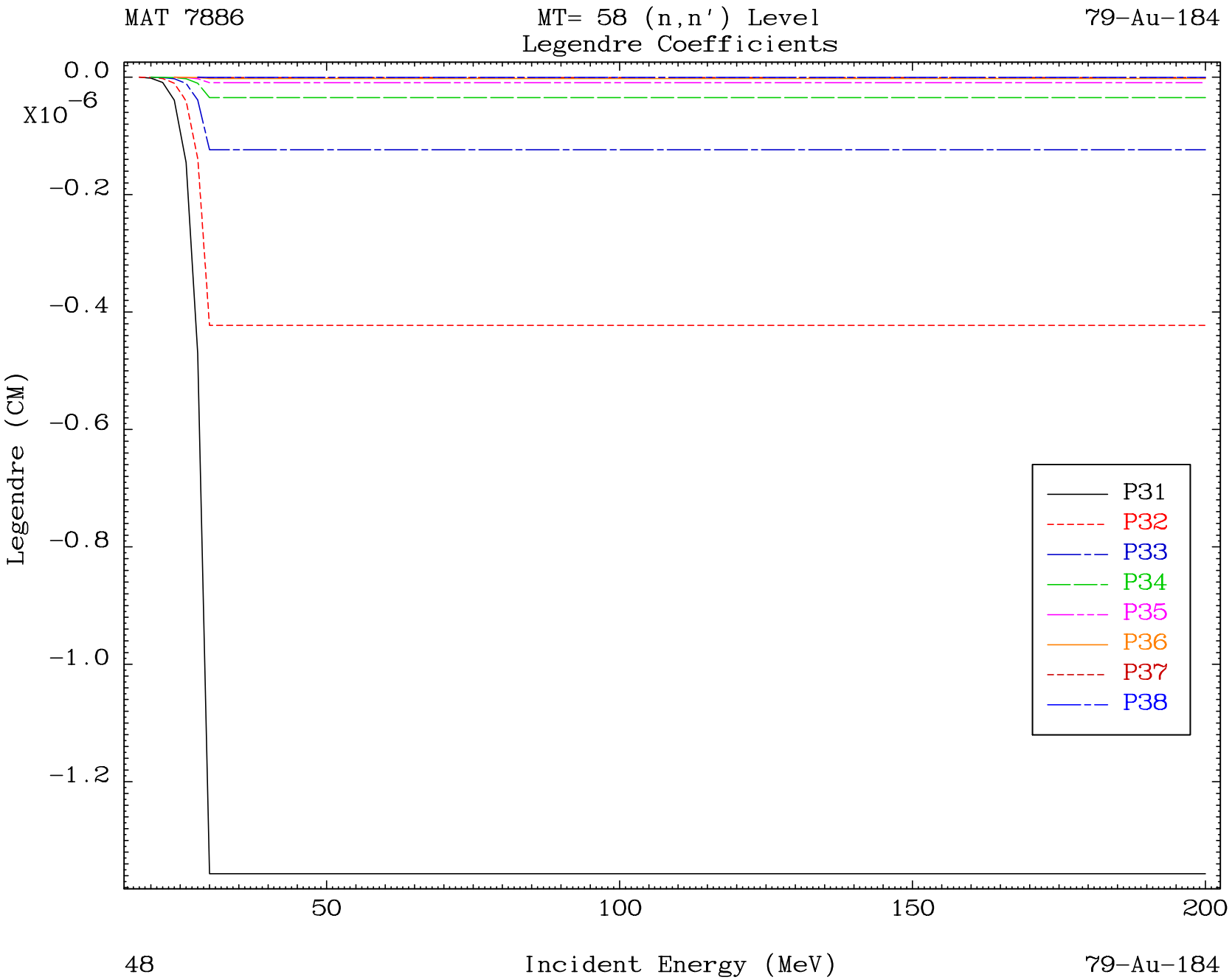

MAT 7886
MT= 57 (n,n') Level
Legendre Coefficients
79-Au-184
X10^-4
2
1
0
-1
-2
-3
Legendre (CM)
P10
P11
P12
P13
P14
P15
P16
P17
P18
0
50
100
150
200
43
Incident Energy (MeV)
79-Au-184

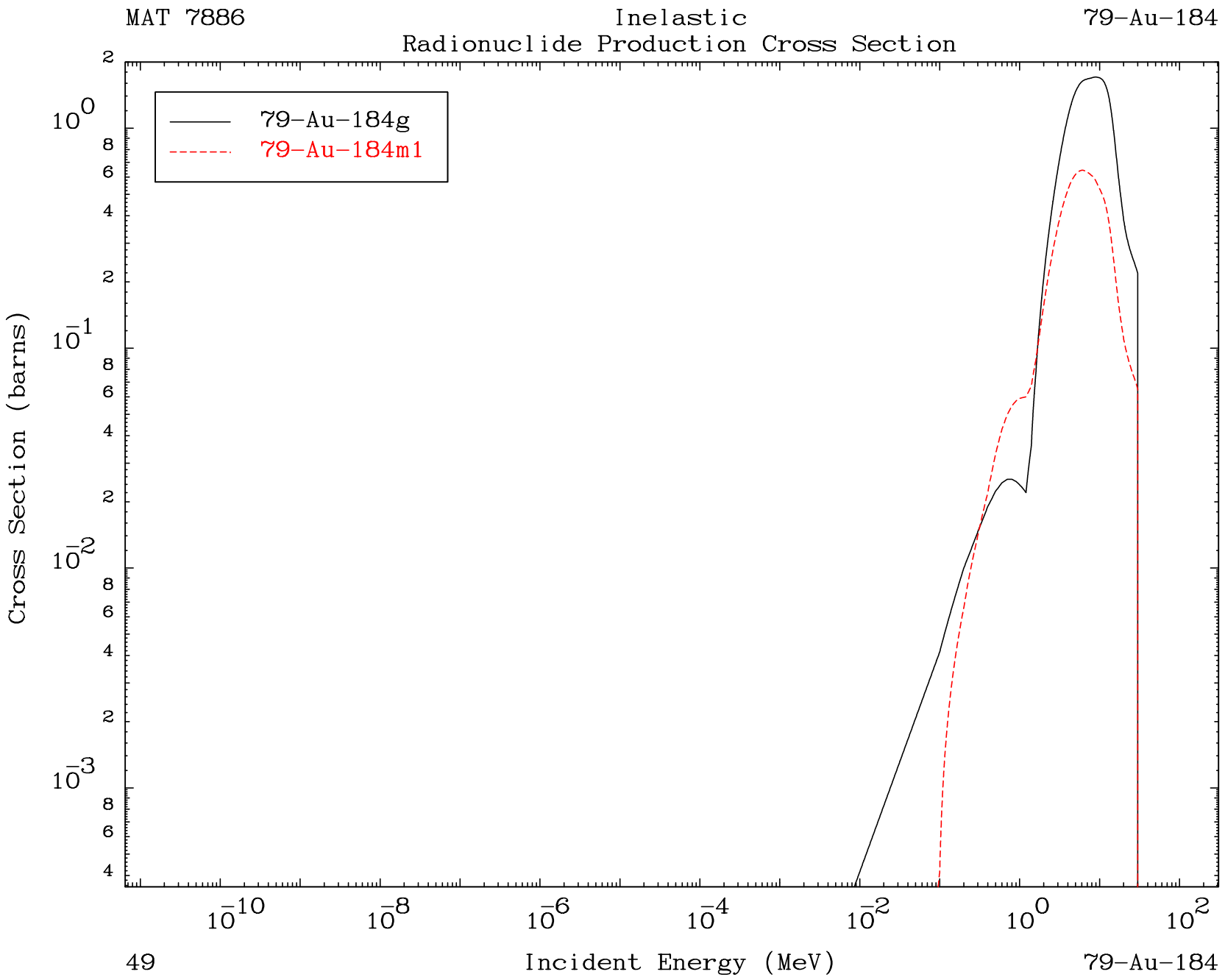

MAT 7886
MT= 57 (n,n') Level
Legendre Coefficients
79-Au-184
X10 −6
3
2
1
0
Legendre (CM)
P19
P20
P21
P22
P23
P24
P25
P26
50
100
150
200
44
Incident Energy (MeV)
79-Au-184

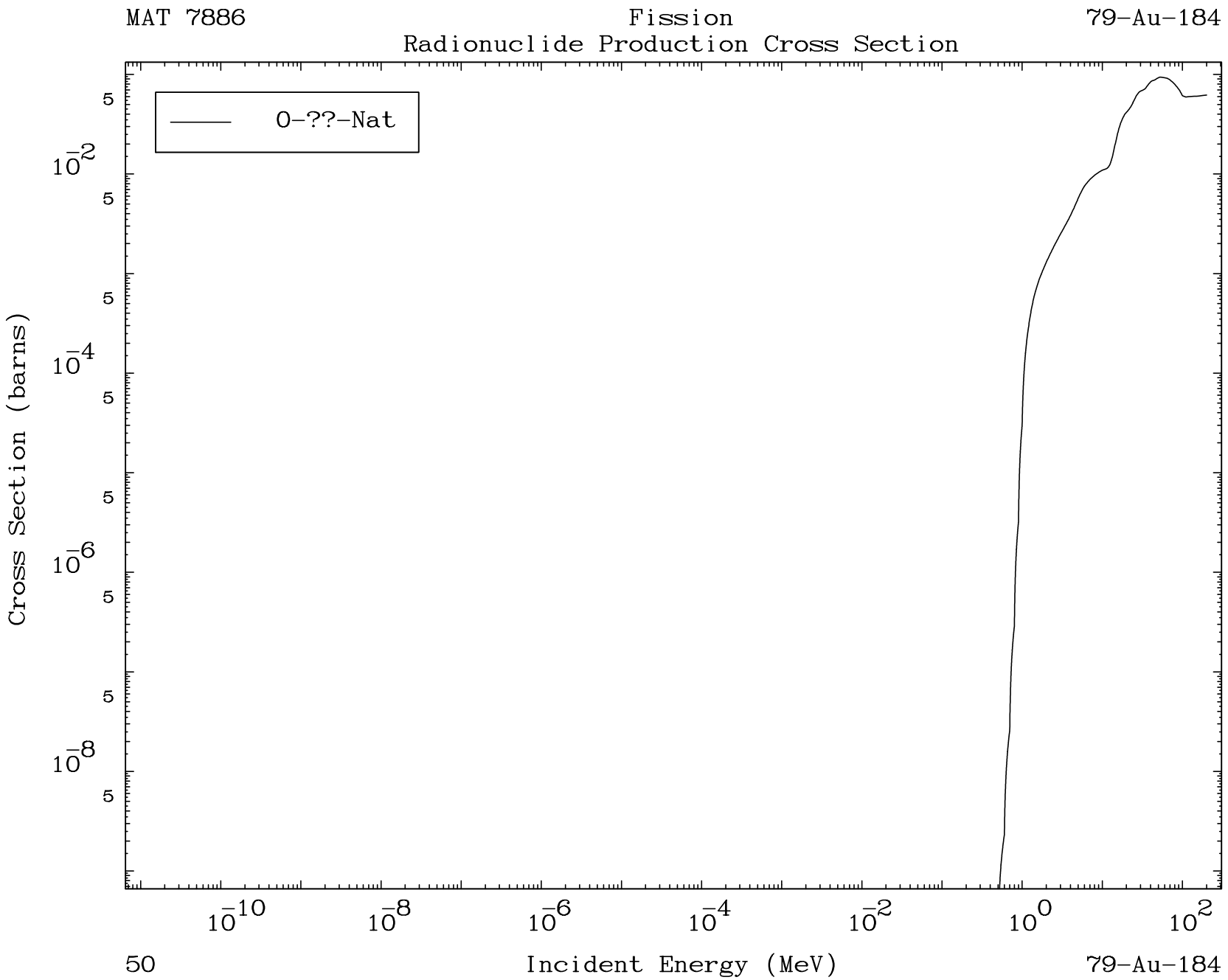

MAT 7886
MT= 58 (n,n') Level
Legendre Coefficients
79-Au-184
0.5
0.4
0.3
0.2
0.1
0.0
-0.1
Legendre (CM)
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
0
50
100
150
200
45
Incident Energy (MeV)
79-Au-184

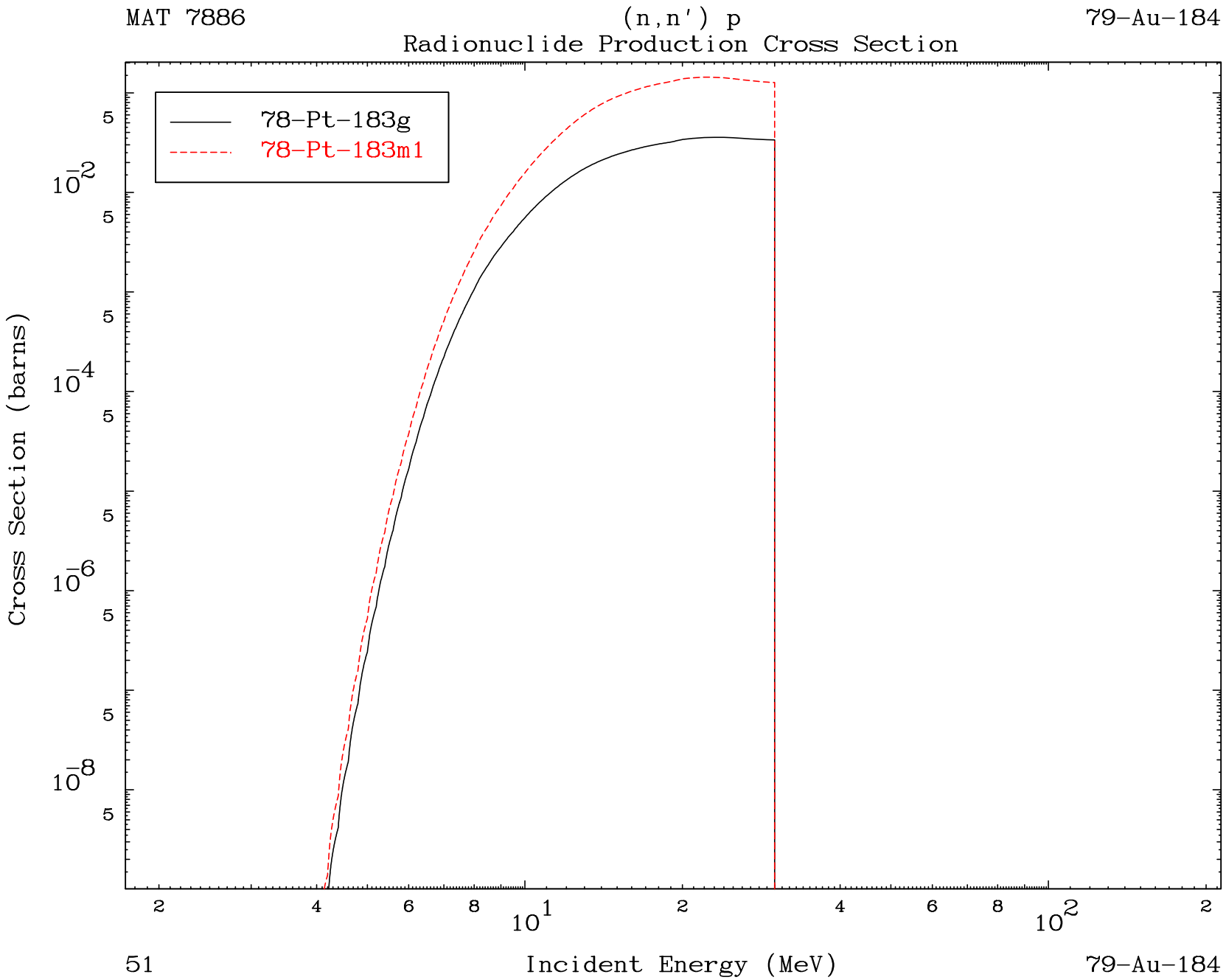

MAT 7886
MT= 58 (n,n') Level
Legendre Coefficients
79-Au-184
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
0.06
0.04
0.02
0.00
-0.02
Legendre (CM)
0
50
100
150
200
46
Incident Energy (MeV)
79-Au-184

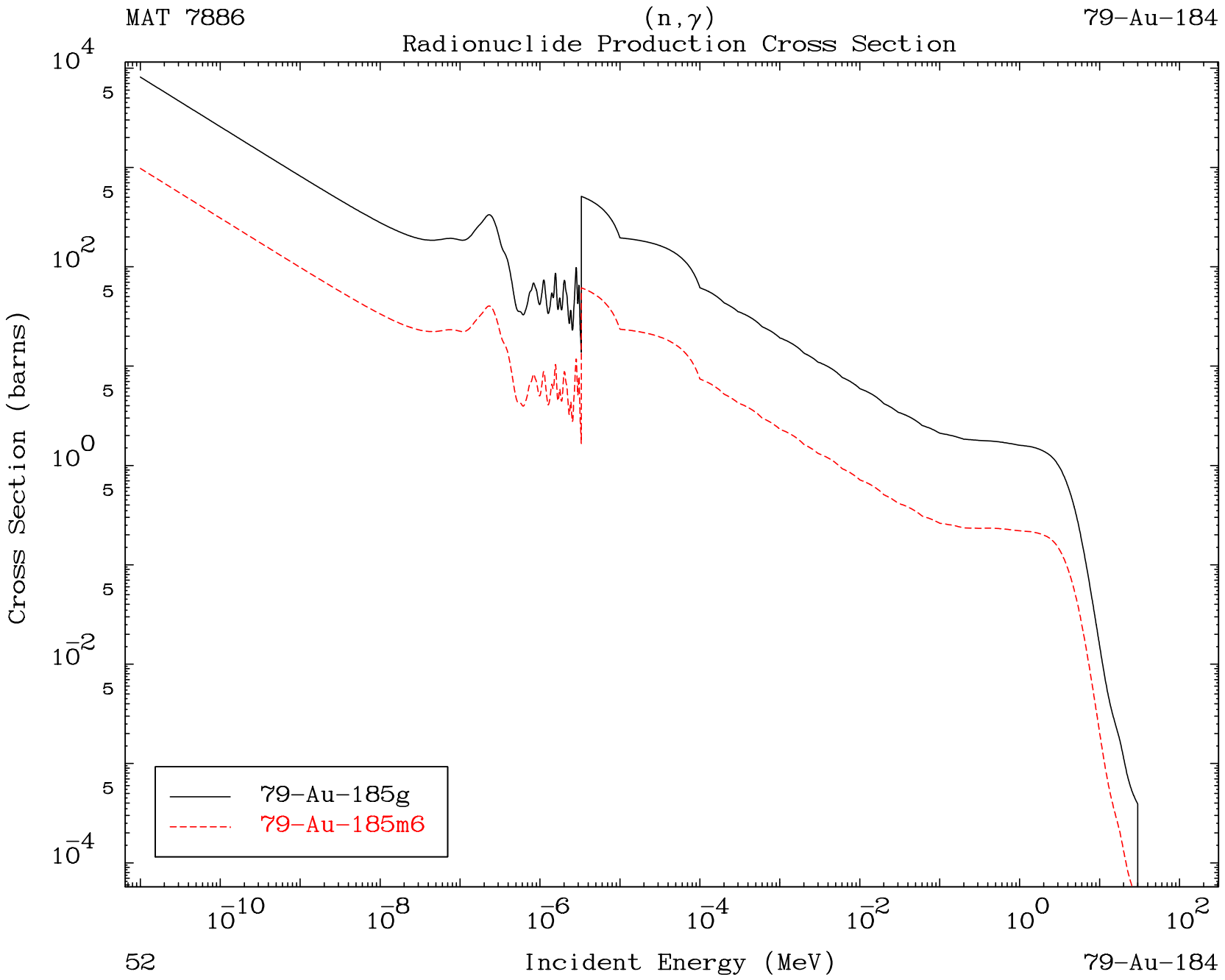

MAT 7886
MT= 58 (n,n') Level
Legendre Coefficients
79-Au-184
0.004
0.002
0.000
-0.002
-0.004
Legendre (CM)
P21
P22
P23
P24
P25
P26
P27
P28
P29
P30
50
100
150
200
47
Incident Energy (MeV)
79-Au-184

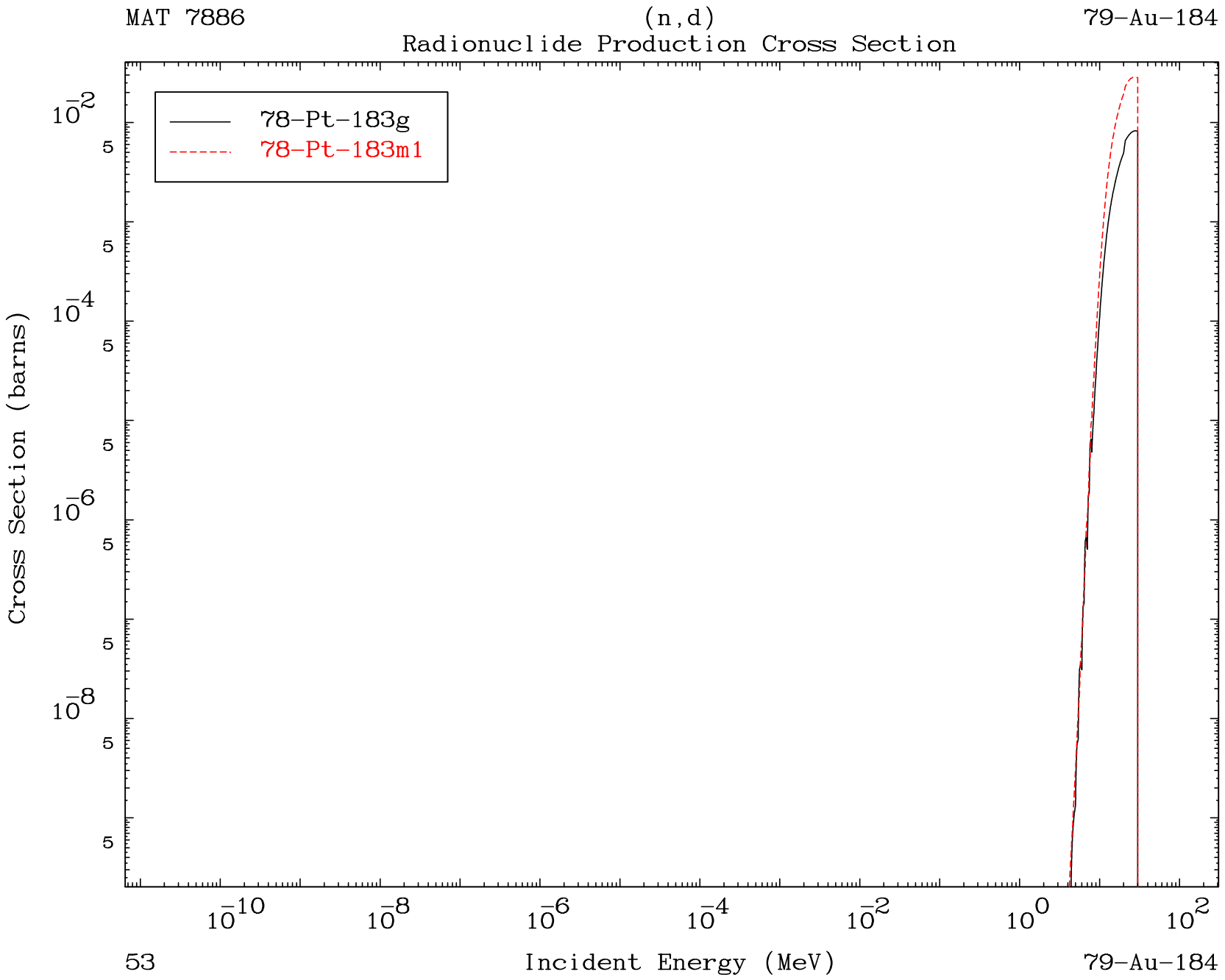

MAT 7886
MT= 58 (n,n') Level
Legendre Coefficients
79-Au-184
0.0
X10^-6
-0.2
-0.4
-0.6
-0.8
-1.0
-1.2
Legendre (CM)
50
100
150
200
48
Incident Energy (MeV)
79-Au-184
P31
P32
P33
P34
P35
P36
P37
P38


MAT 7886
Inelastic
79-Au-184
Radionuclide Production Cross Section
79-Au-184g
79-Au-184m1
Cross Section (barns)
Incident Energy (MeV)
49
79-Au-184


MAT 7886
Fission
79-Au-184
Radionuclide Production Cross Section
0-??-Nat
Cross Section (barns)
Incident Energy (MeV)
50
79-Au-184


MAT 7886
(n,n') p
79-Au-184
Radionuclide Production Cross Section
78-Pt-183g
78-Pt-183m1
Cross Section (barns)
10-2
10-4
10-6
10-8
2
4
6
8
10 1
2
4
6
8
10 2
2
51
Incident Energy (MeV)
79-Au-184


MAT 7886
(n,γ)
79-Au-184
Radionuclide Production Cross Section
Cross Section (barns)
10^4
10^2
10^0
10^-2
10^-4
10^-10
10^-8
10^-6
10^-4
10^-2
10^0
10^2
Incident Energy (MeV)
79-Au-185g
79-Au-185m6
52
79-Au-184


MAT 7886
(n,d)
79-Au-184
Radionuclide Production Cross Section
78-Pt-183g
78-Pt-183m1
Cross Section (barns)
Incident Energy (MeV)
53
79-Au-184