

Program EVALPLOT
(Version 2021-1)

by

Dermott E. Cullen
(Present Contact Information)

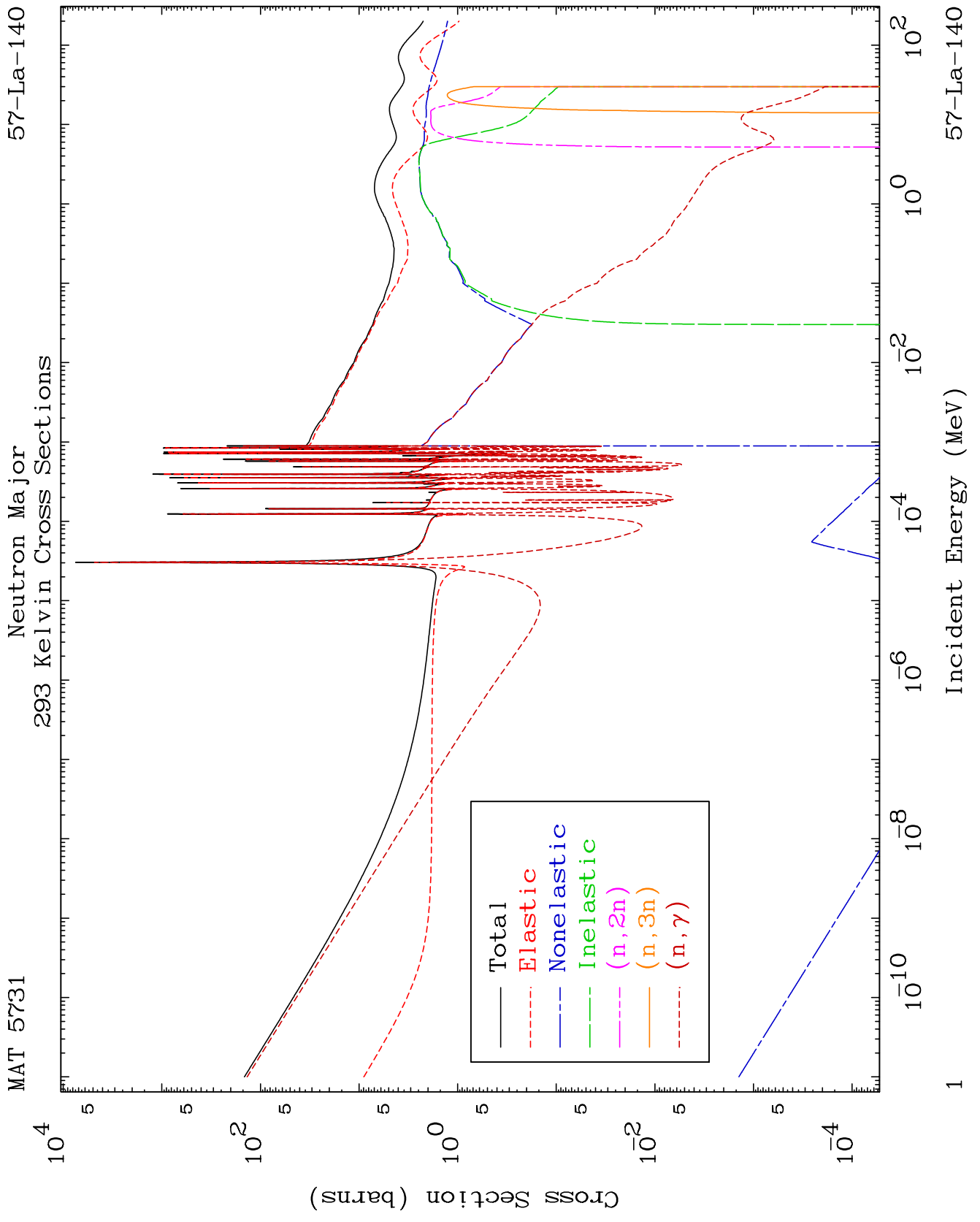
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.

Tele: 925-443-1911

E.Mail:redcullen1@comcast.net

Web:redcullen1.net/HOMEPAGE.NEW

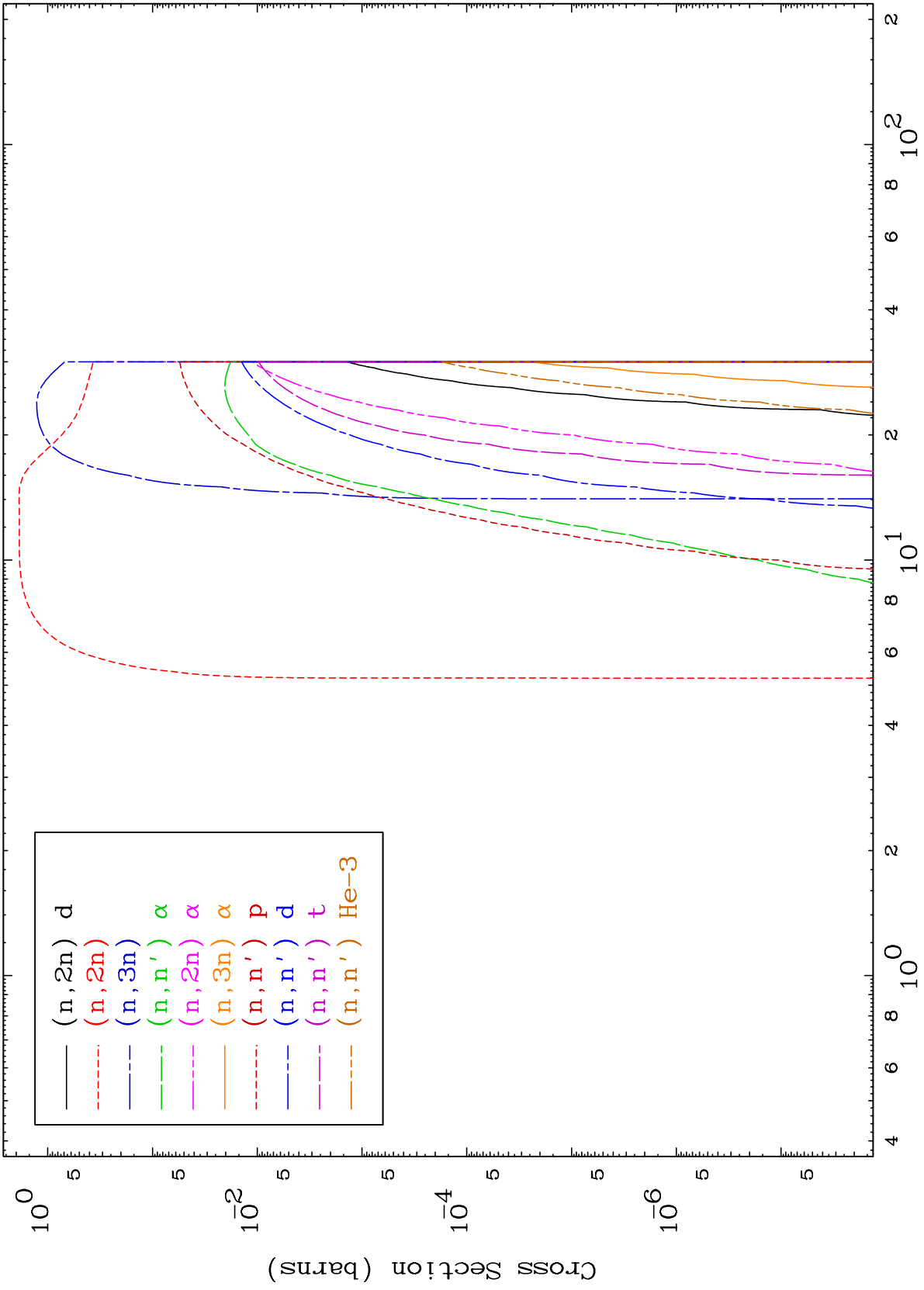
Press Mouse Button to Start



MAT 5731

Neutron Absorption
293 Kelvin Cross Sections

57-La-140



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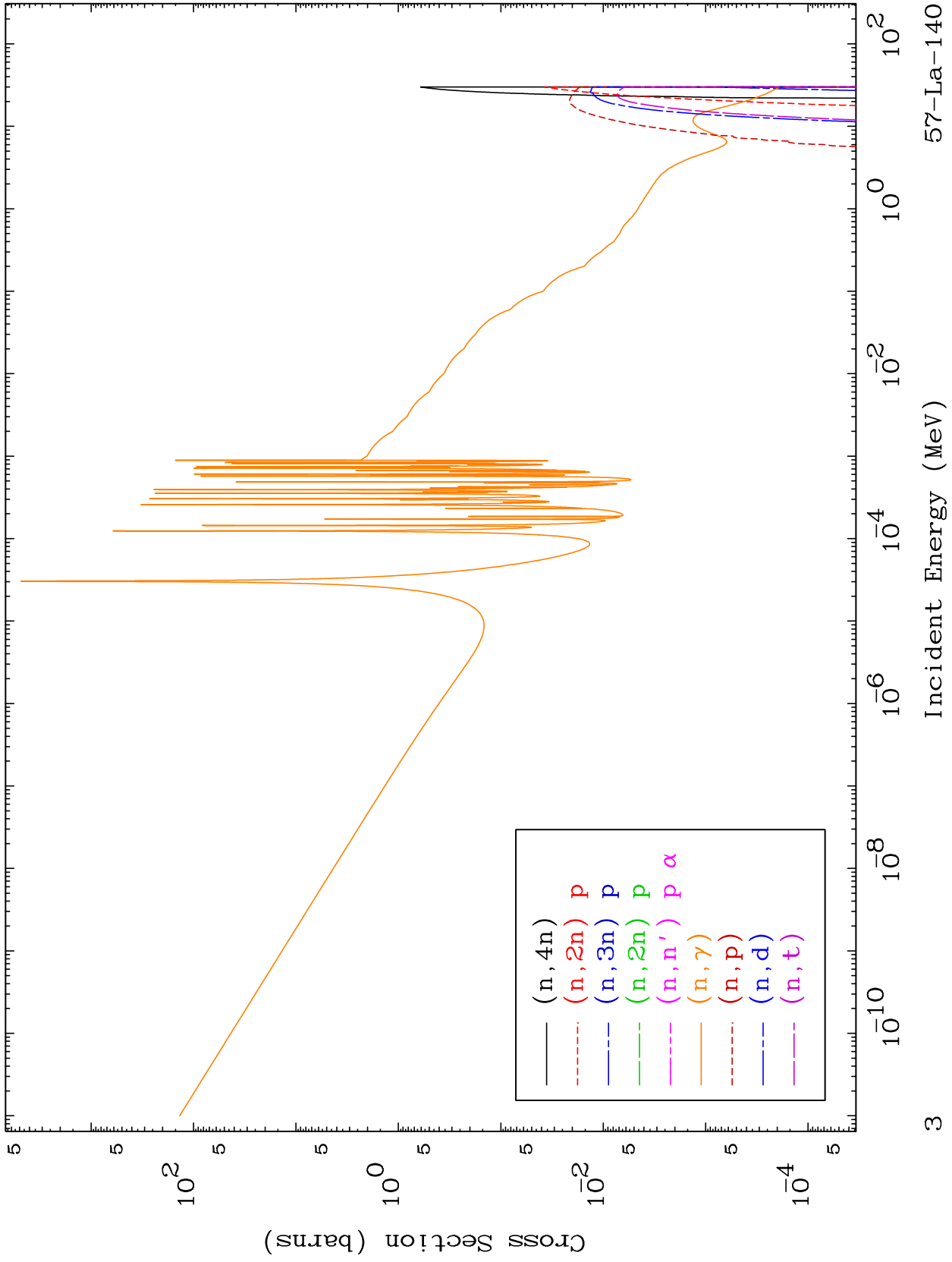
Incident Energy (MeV)

57-La-140

MAT 5731

Neutron Absorption
293 Kelvin Cross Sections

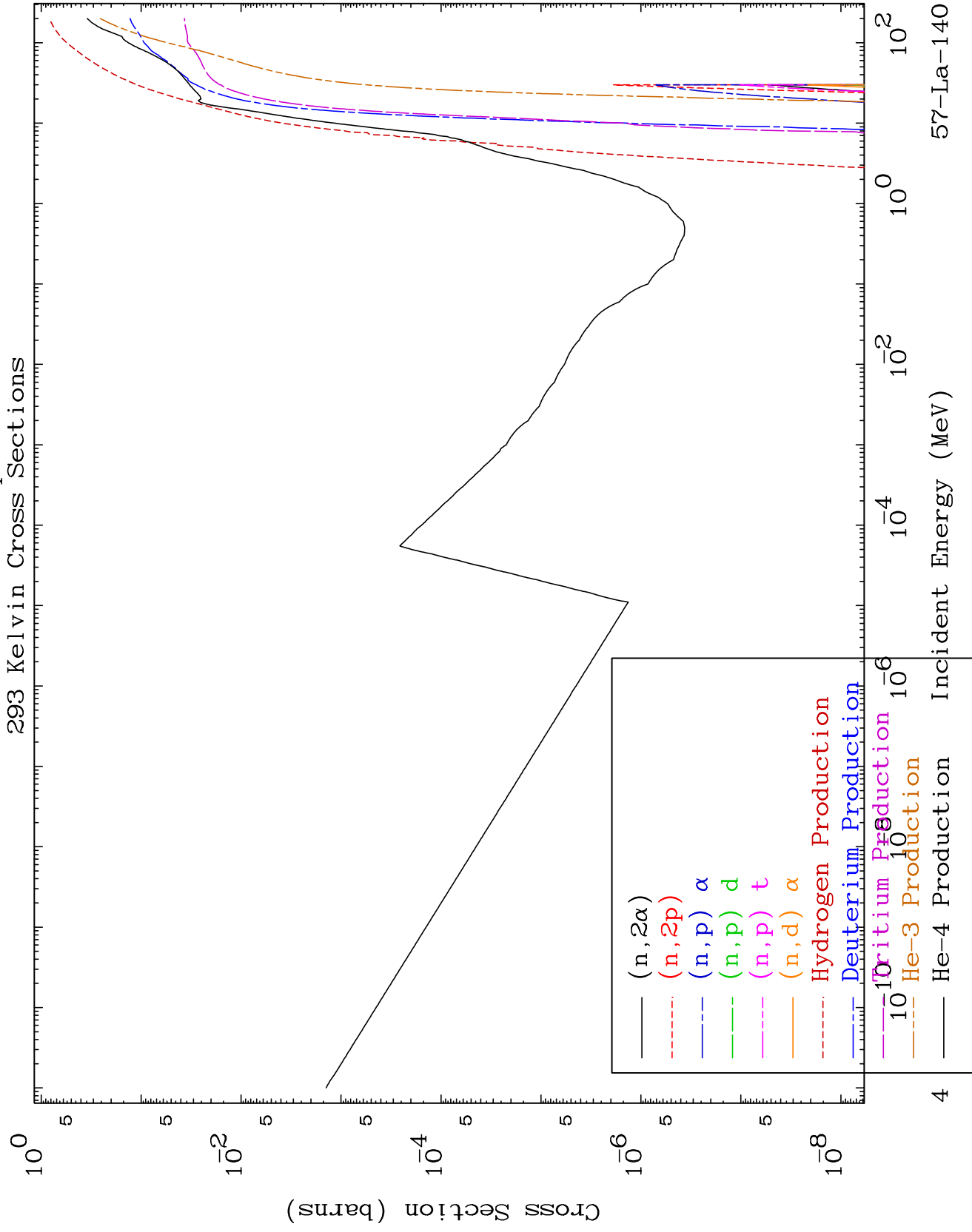
57-La-140



MAT 5731

Neutron Absorption
293 Kelvin Cross Sections

57-La-140



57-La-140

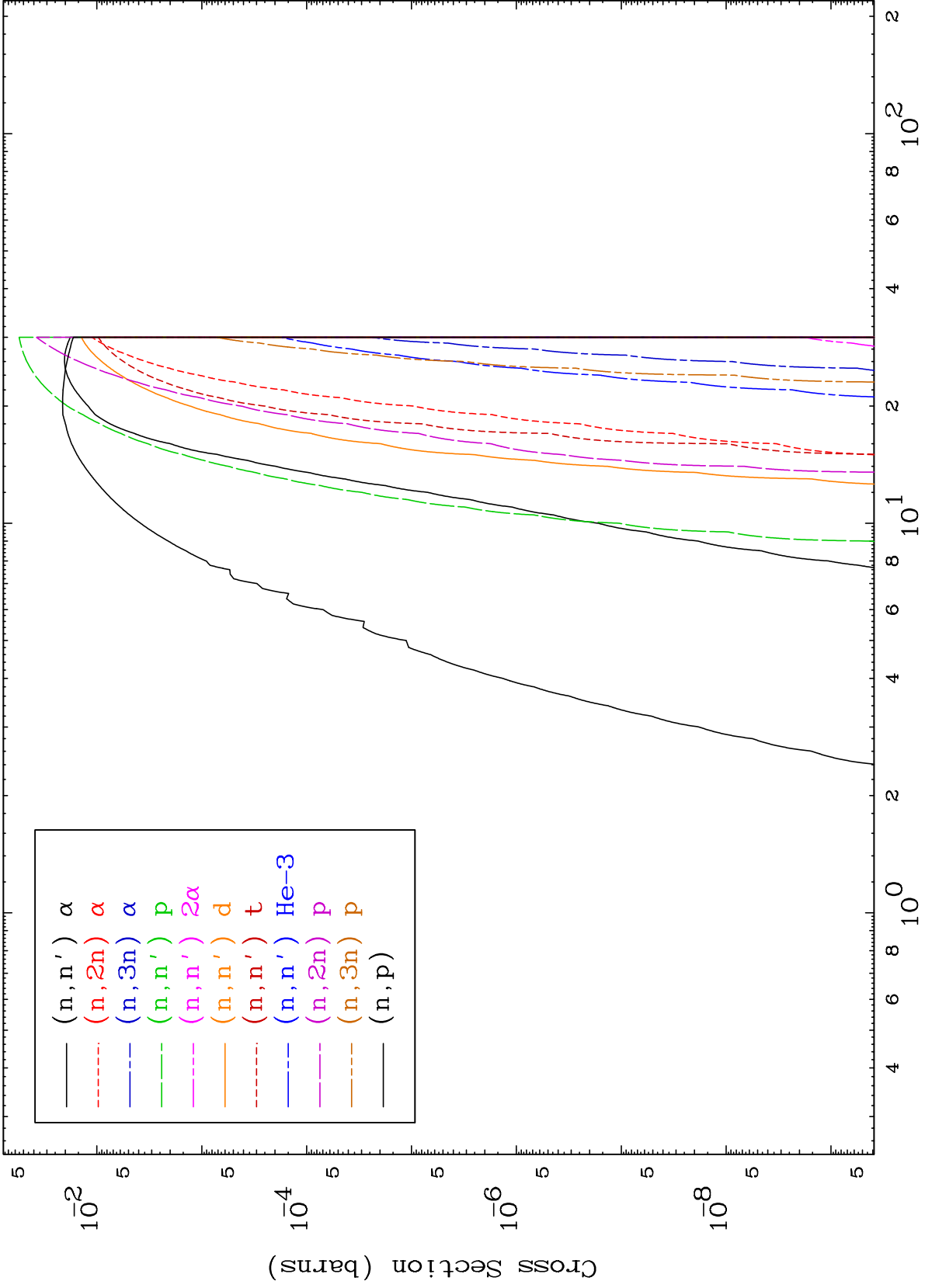
57-La-140

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MAT 5731

Charged Particle
293 Kelvin Cross Sections

57-La-140



5

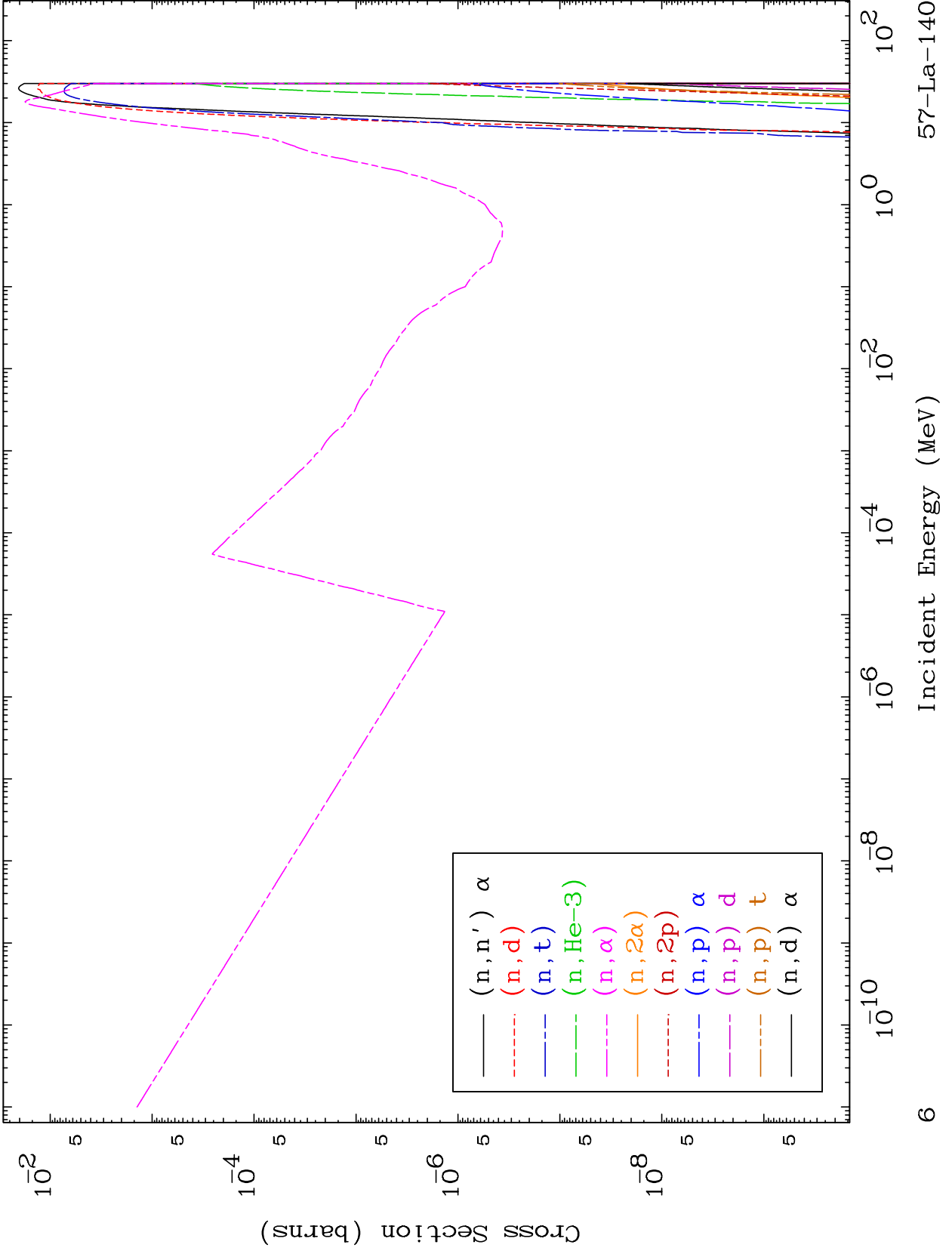
Incident Energy (MeV)

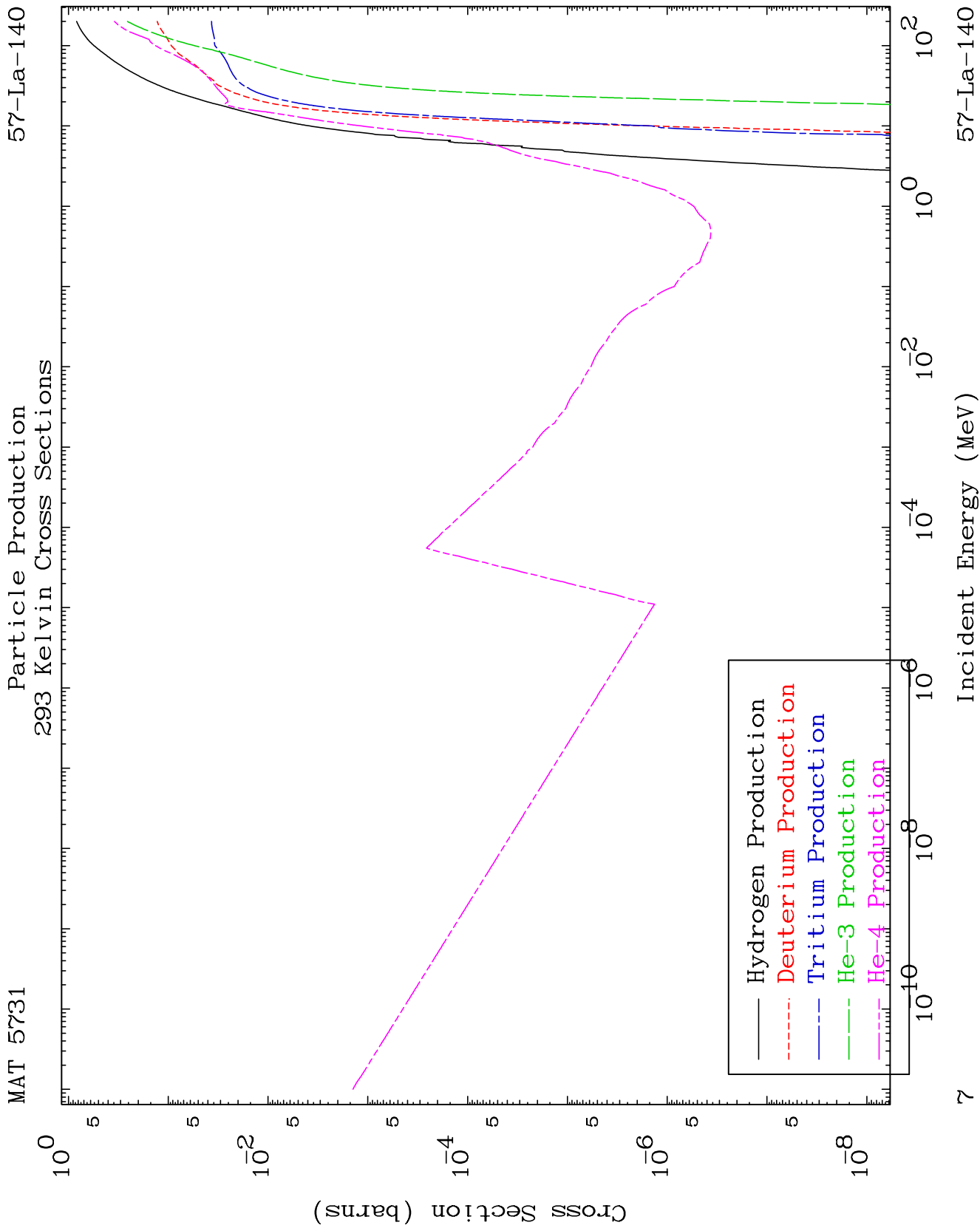
57-La-140

MAT 5731

Charged Particle
293 Kelvin Cross Sections

57-La-140



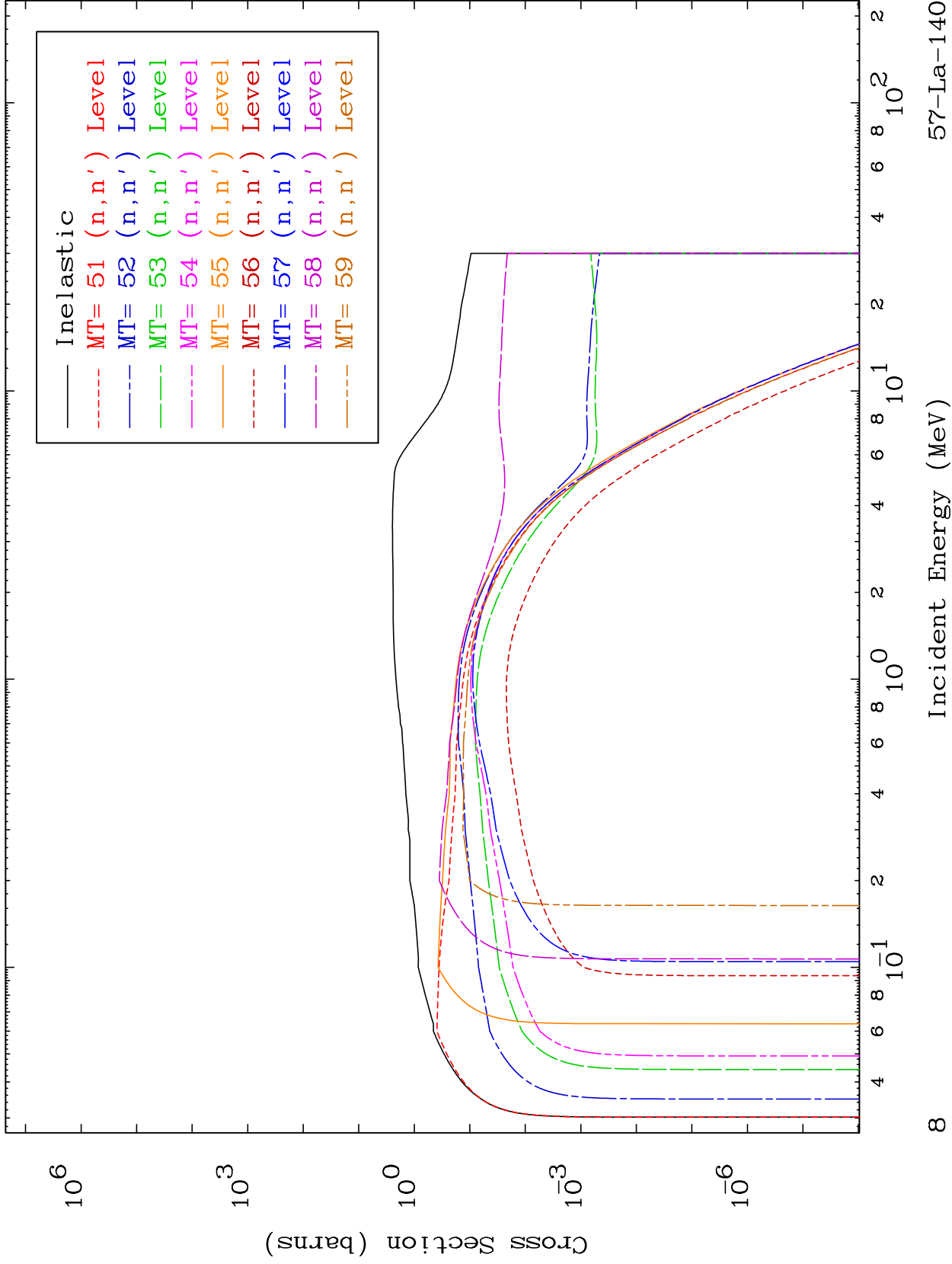


MAT 5731

(n,n') Levels

293 Kelvin Cross Sections

57-La-140

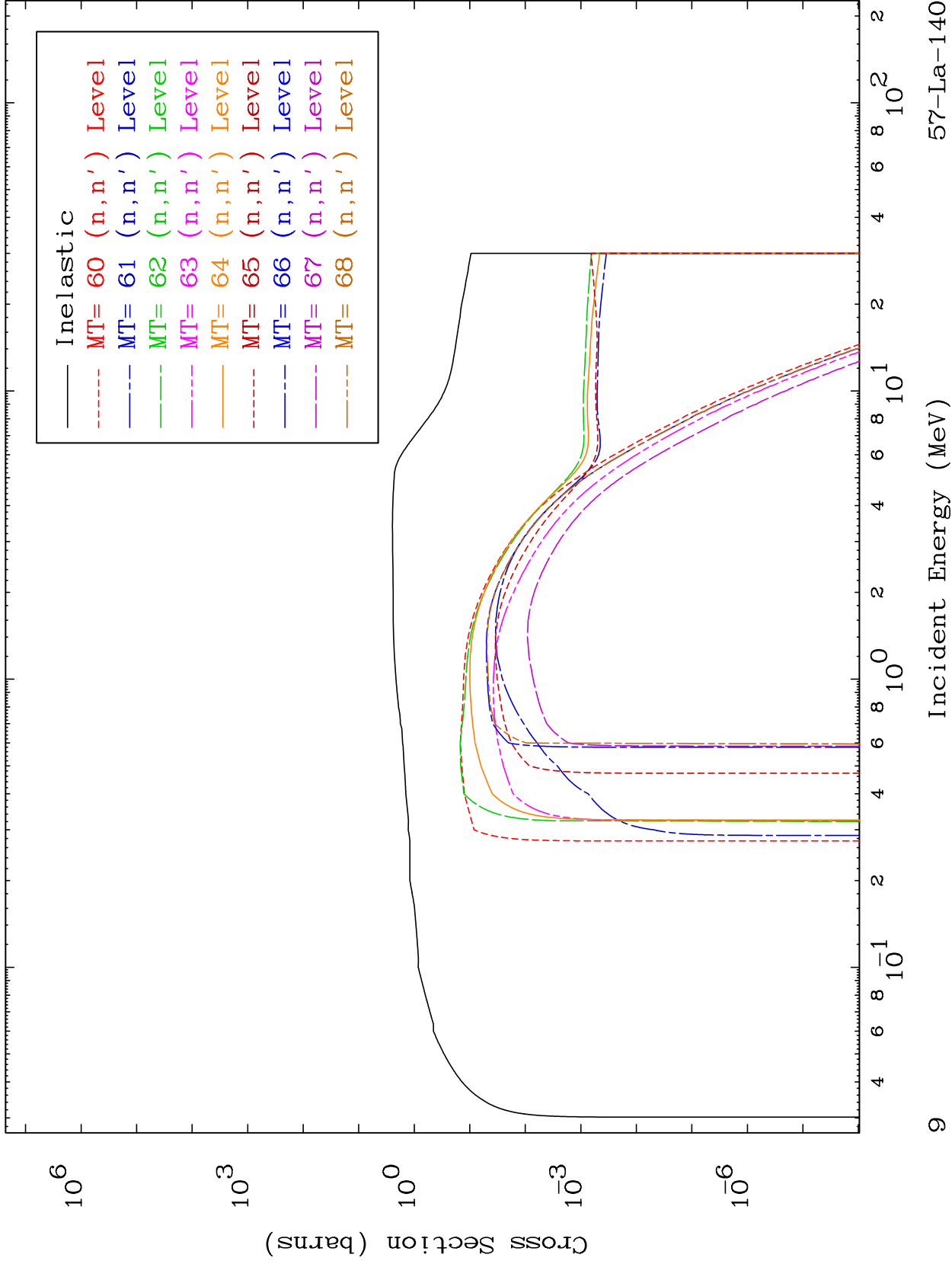


MAT 5731

(n,n') Levels

293 Kelvin Cross Sections

57-La-140

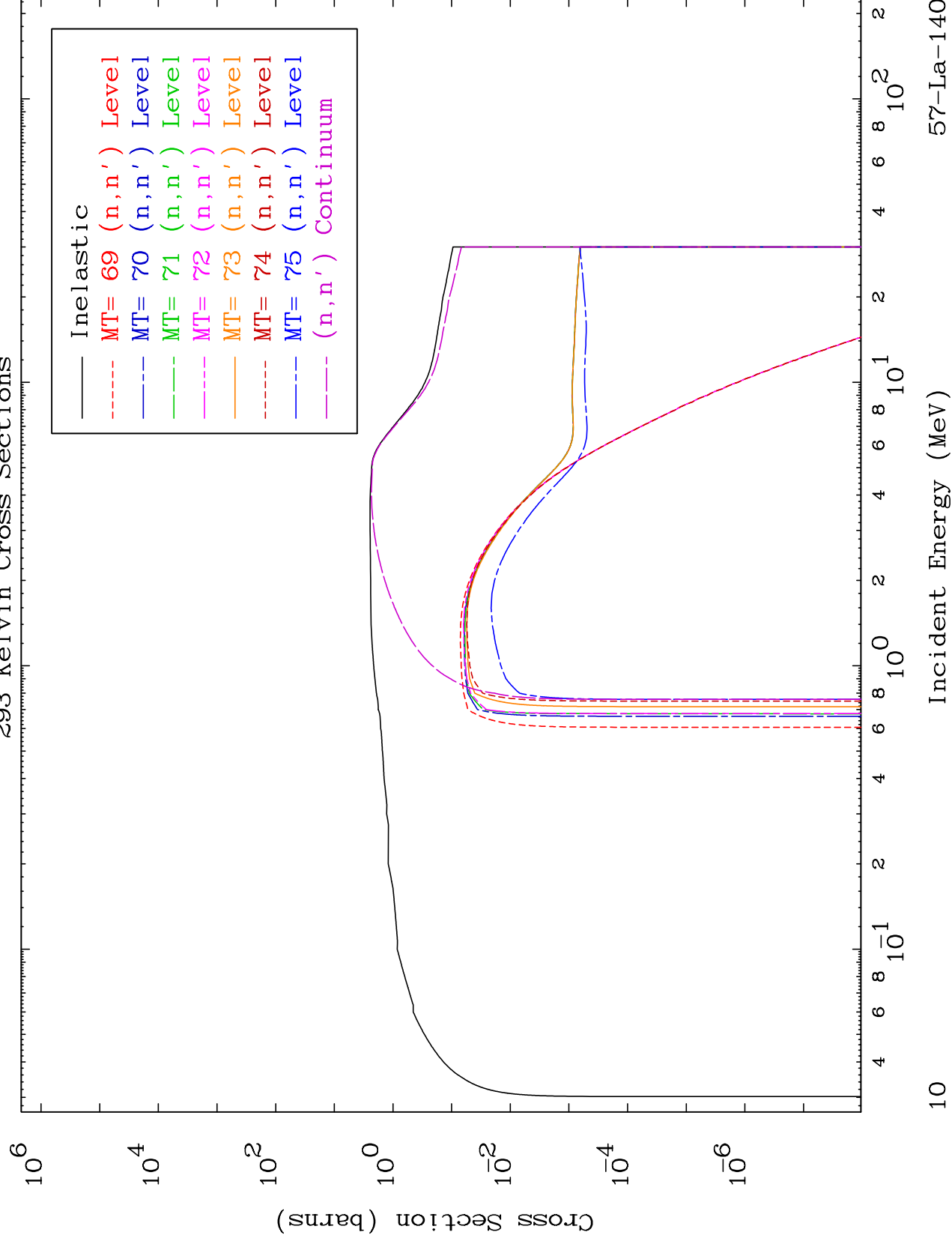


MAT 5731

(n,n') Levels

293 Kelvin Cross Sections

57-La-140



10

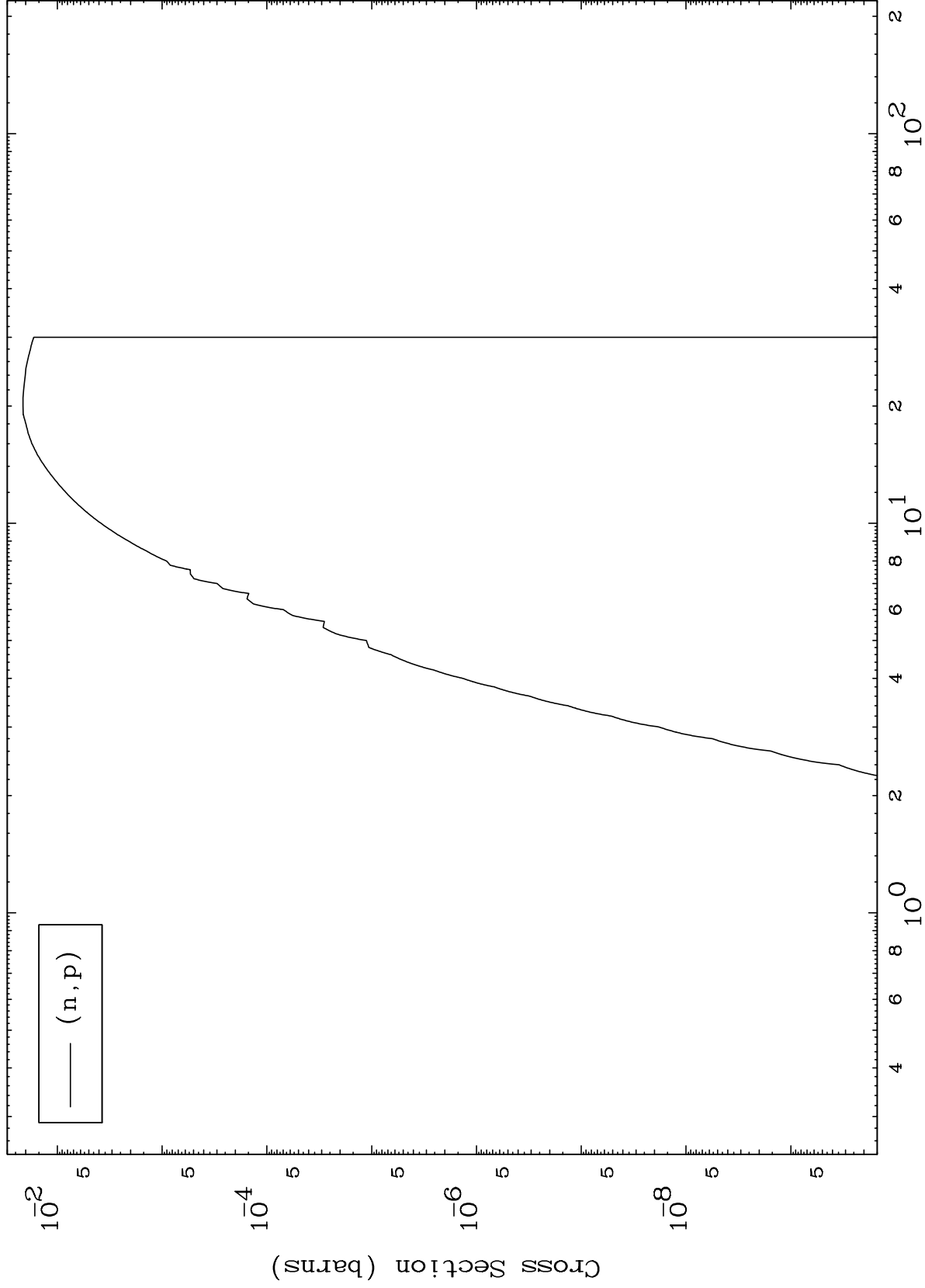
Incident Energy (MeV)

57-La-140

MAT 5731

(n,p) Levels
293 Kelvin Cross Sections

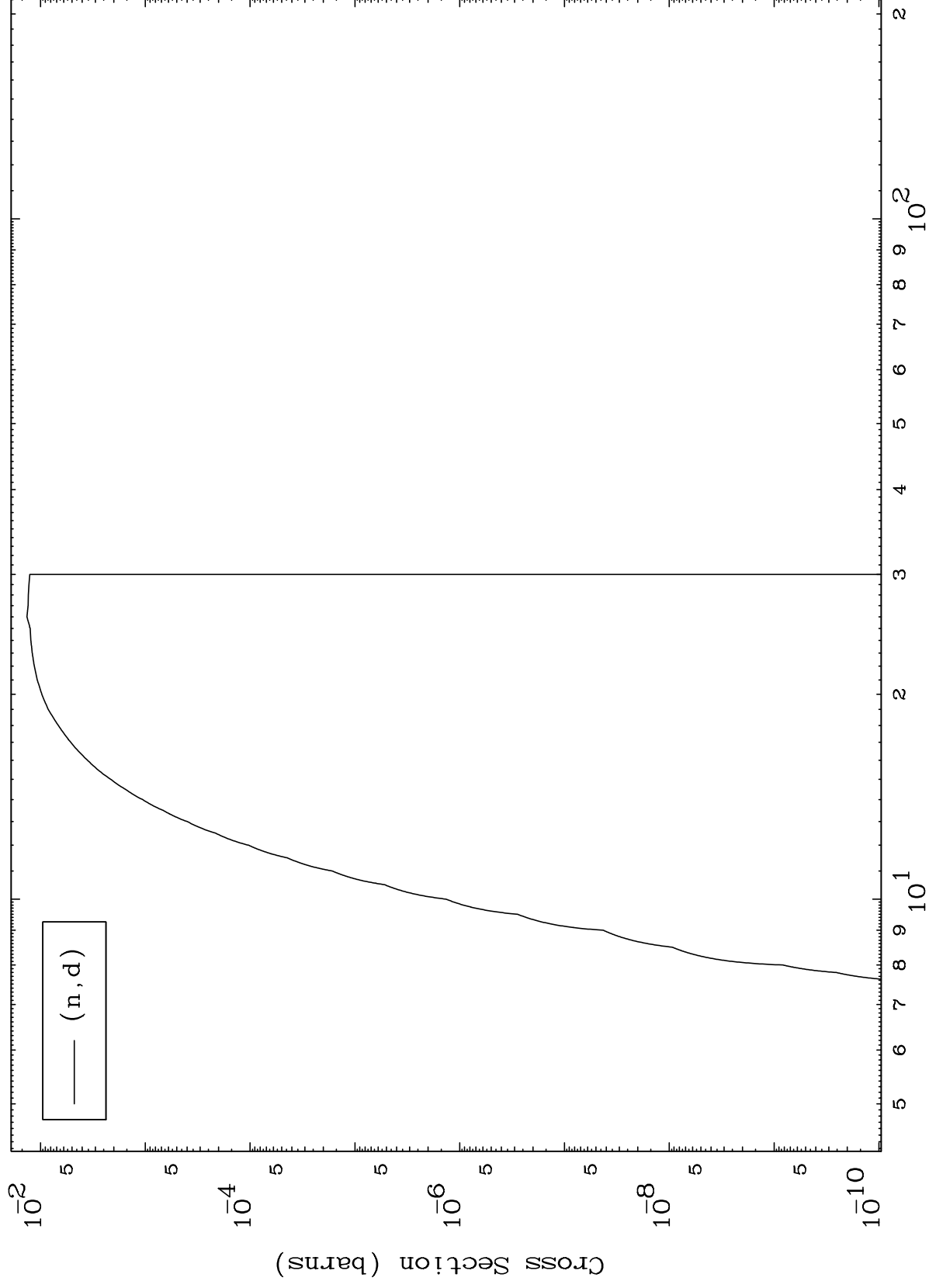
57-La-140



MAT 5731

(n,d) Levels
293 Kelvin Cross Sections

57-La-140



12

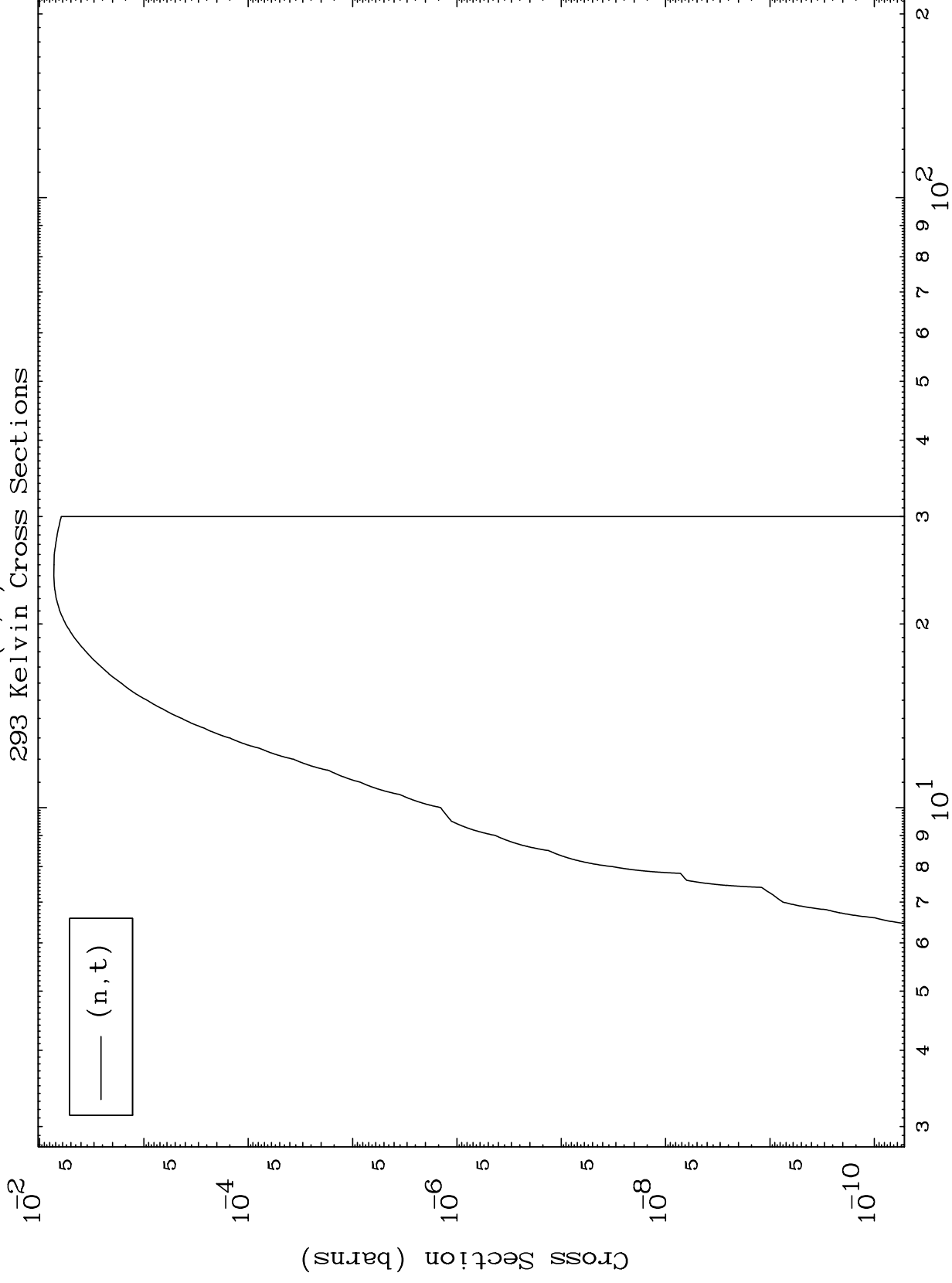
Incident Energy (MeV)

57-La-140

MAT 5731

(n,t) Levels
293 Kelvin Cross Sections

57-La-140



13

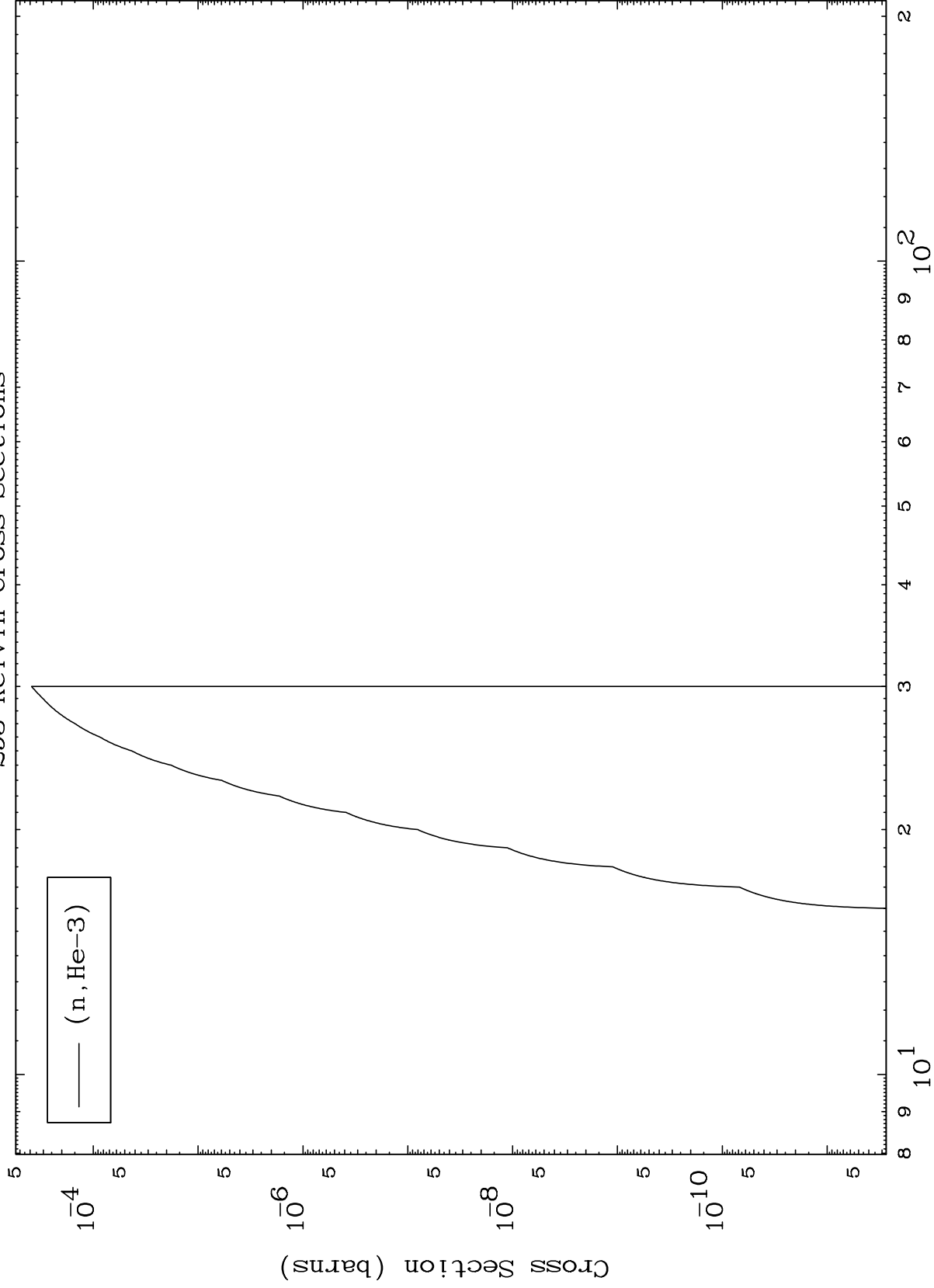
Incident Energy (MeV)

57-La-140

MAT 5731

(n,He3) Levels
293 Kelvin Cross Sections

57-La-140



14

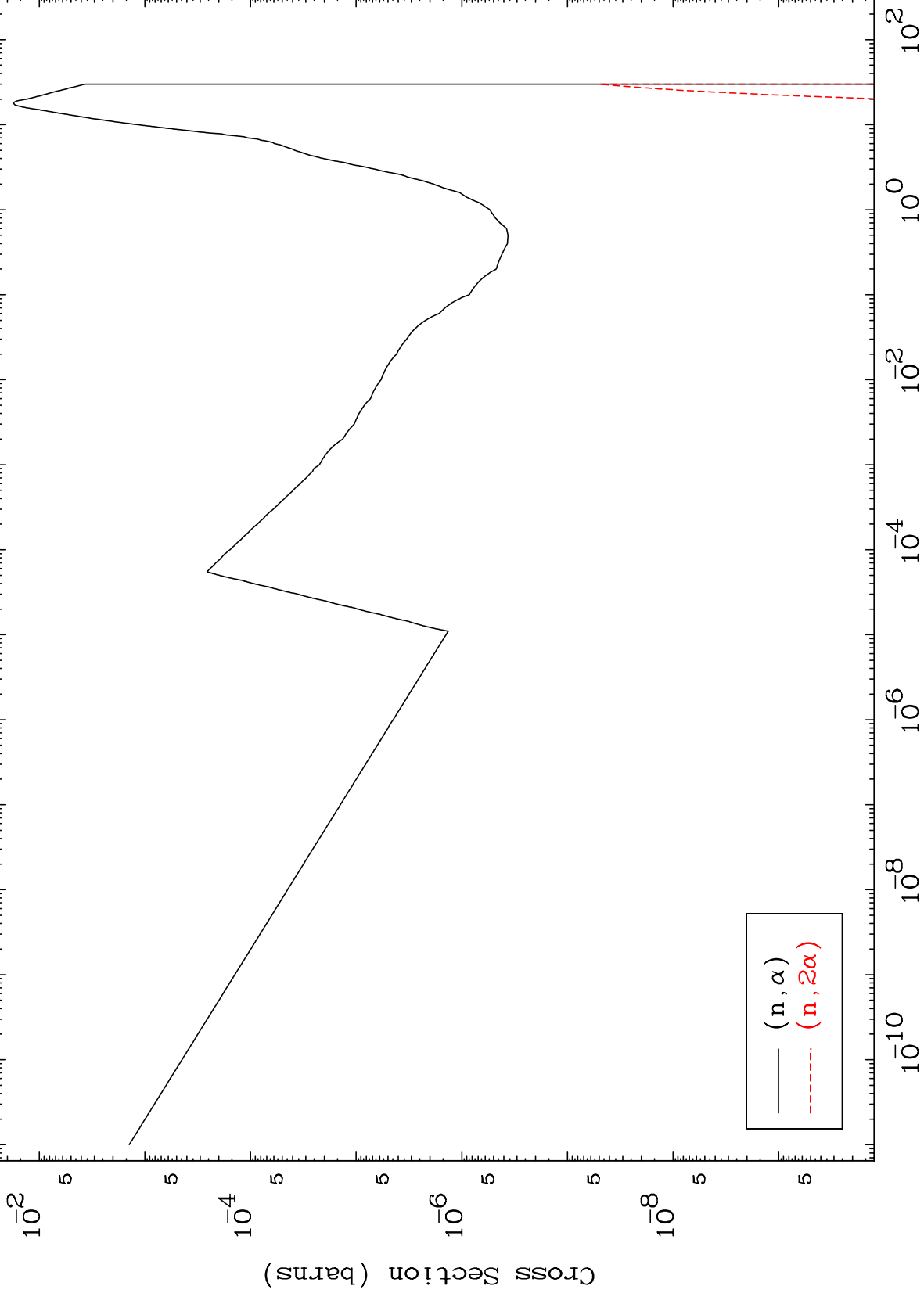
Incident Energy (MeV)

57-La-140

MAT 5731

(n,α) Levels
293 Kelvin Cross Sections

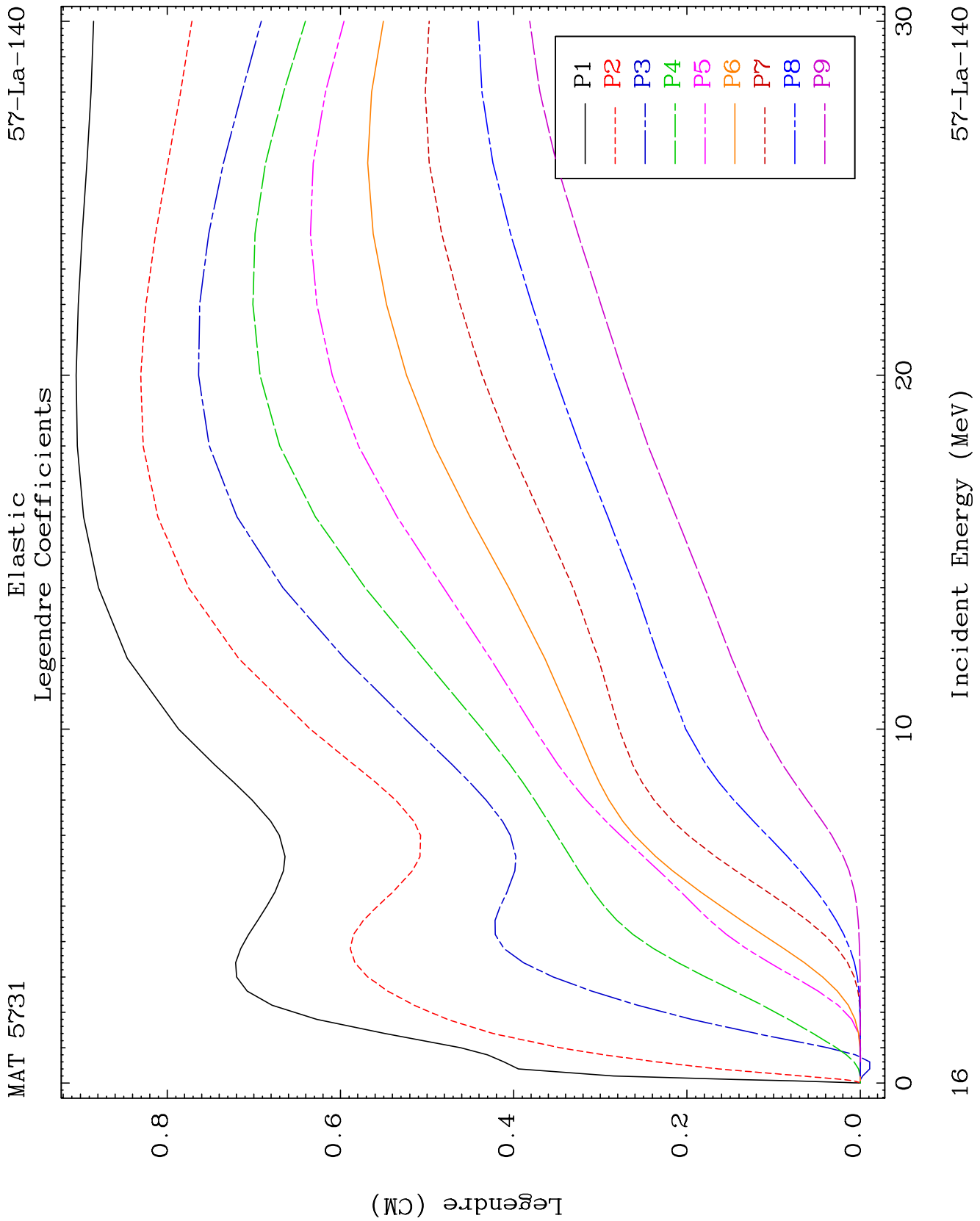
57-La-140

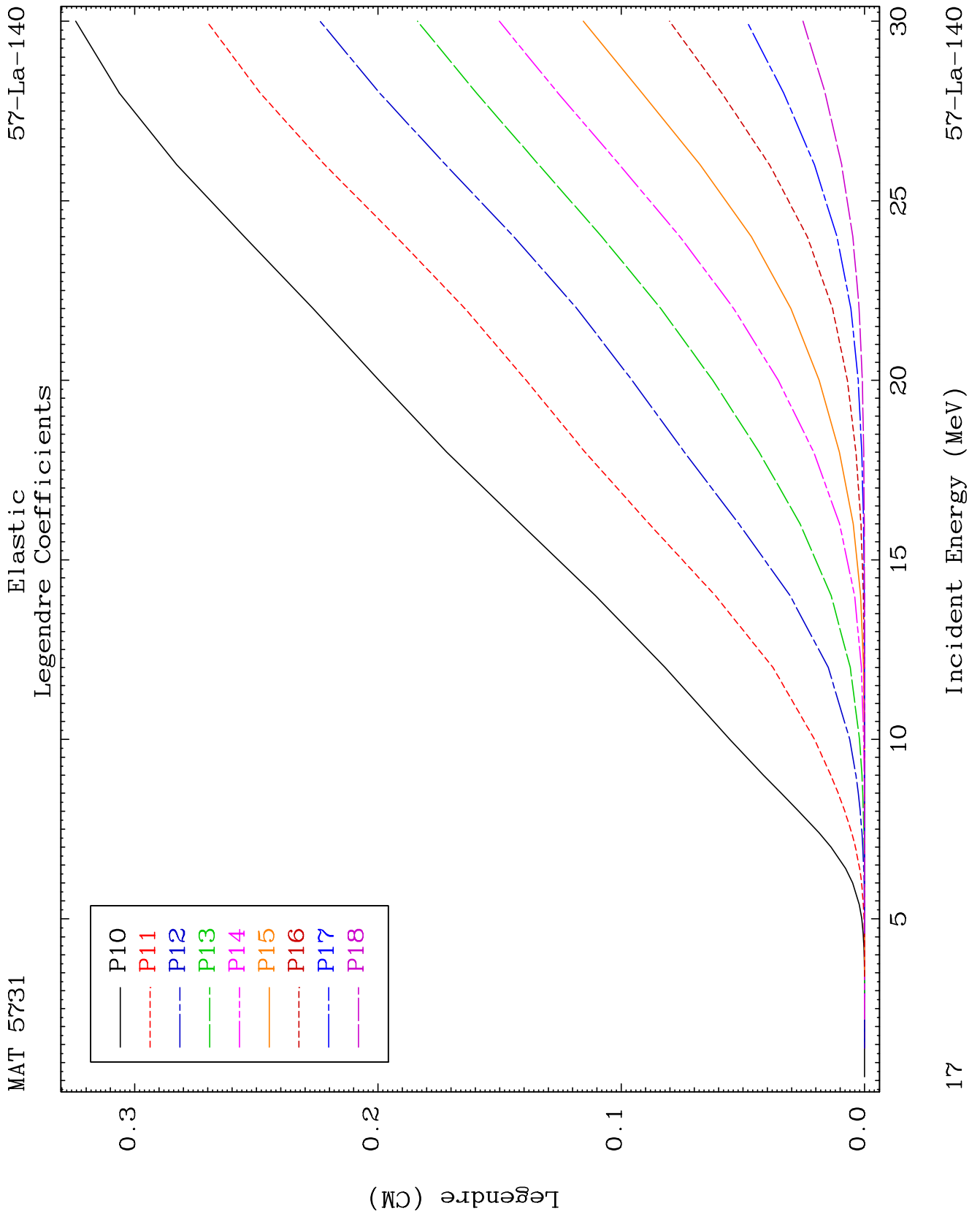


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Incident Energy (MeV)

57-La-140

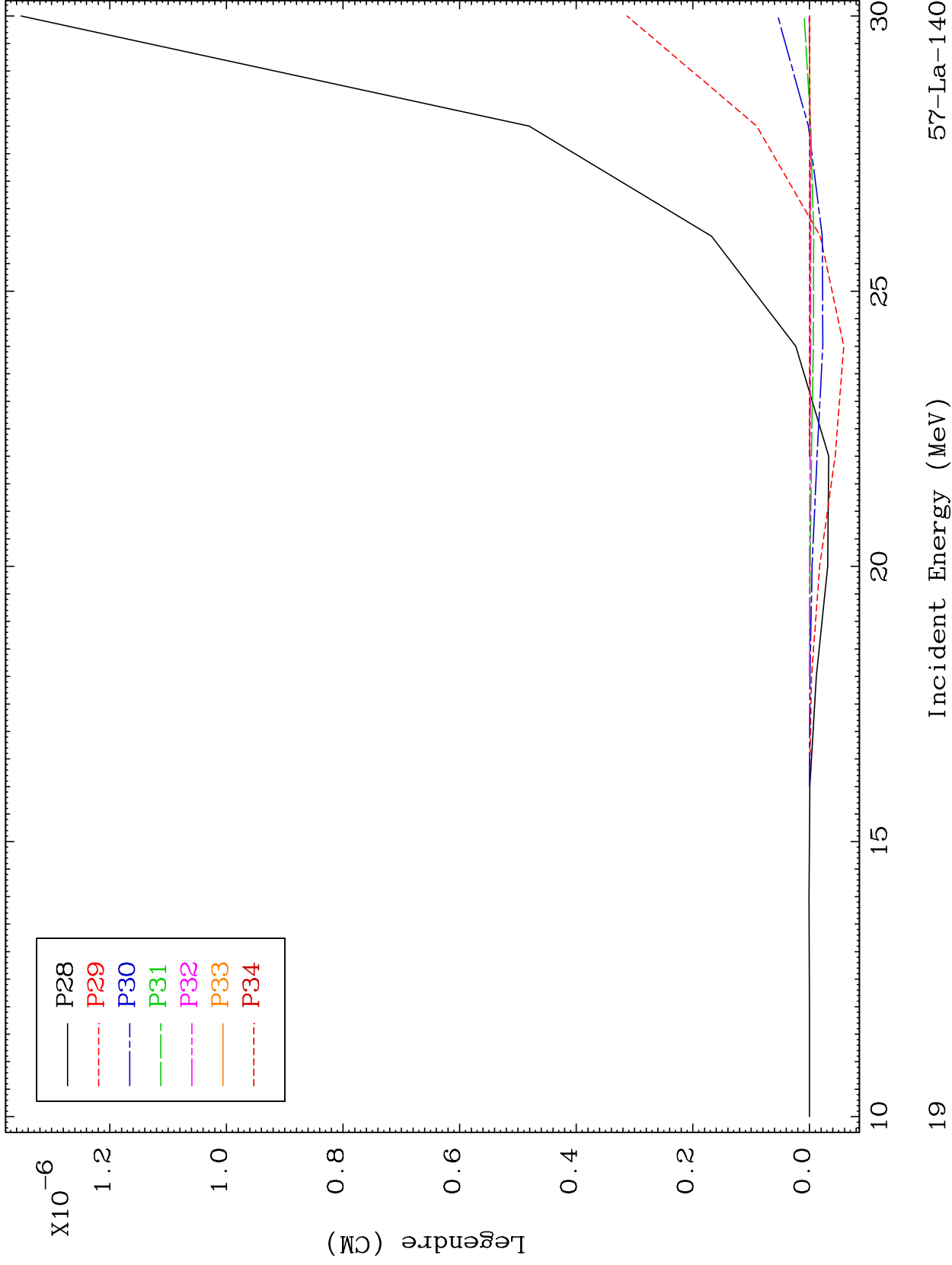




MAT 5731

Elastic Legendre Coefficients

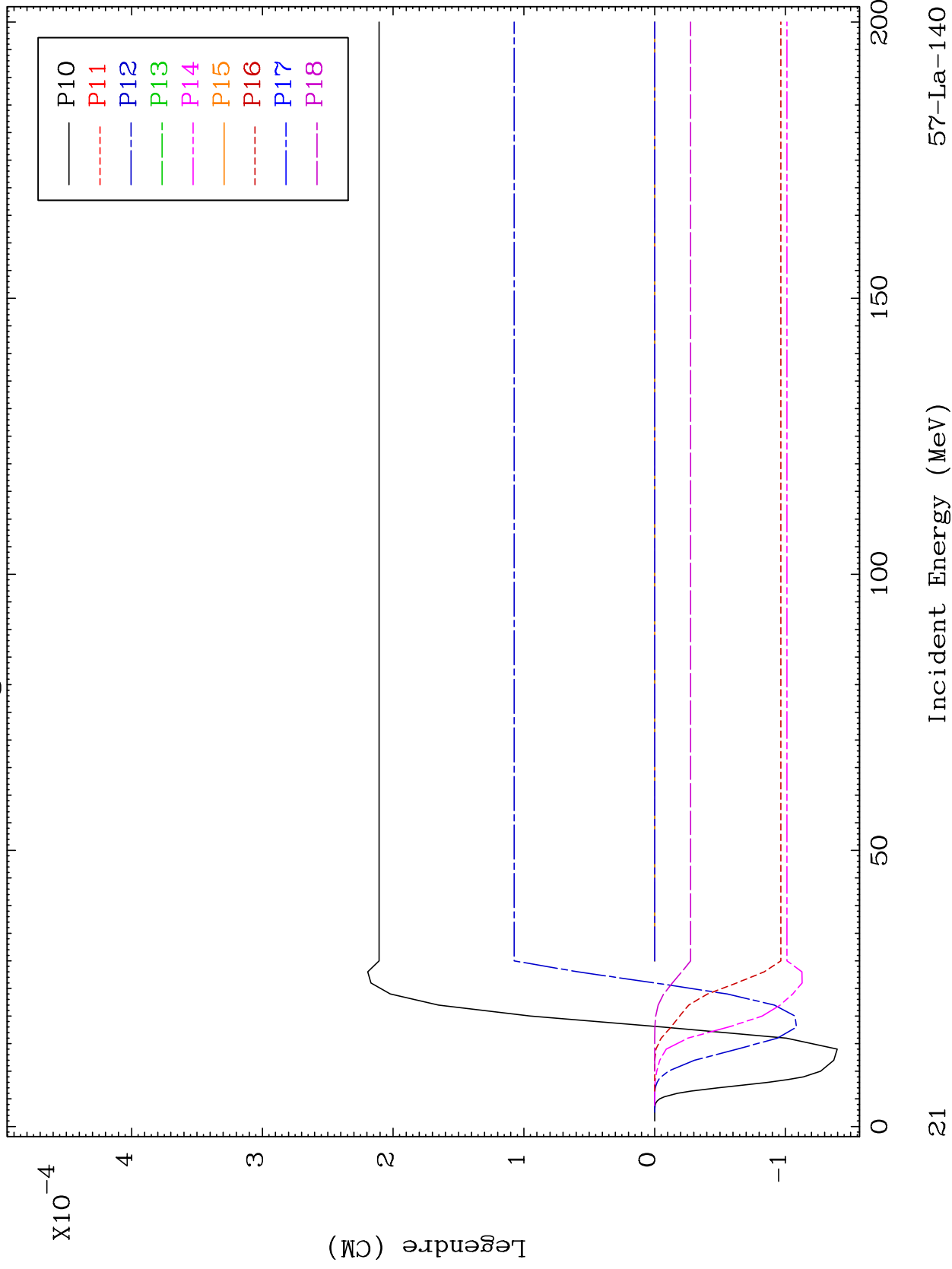
57-La-140



MAT 5731

MT= 51 (n,n') Level
Legendre Coefficients

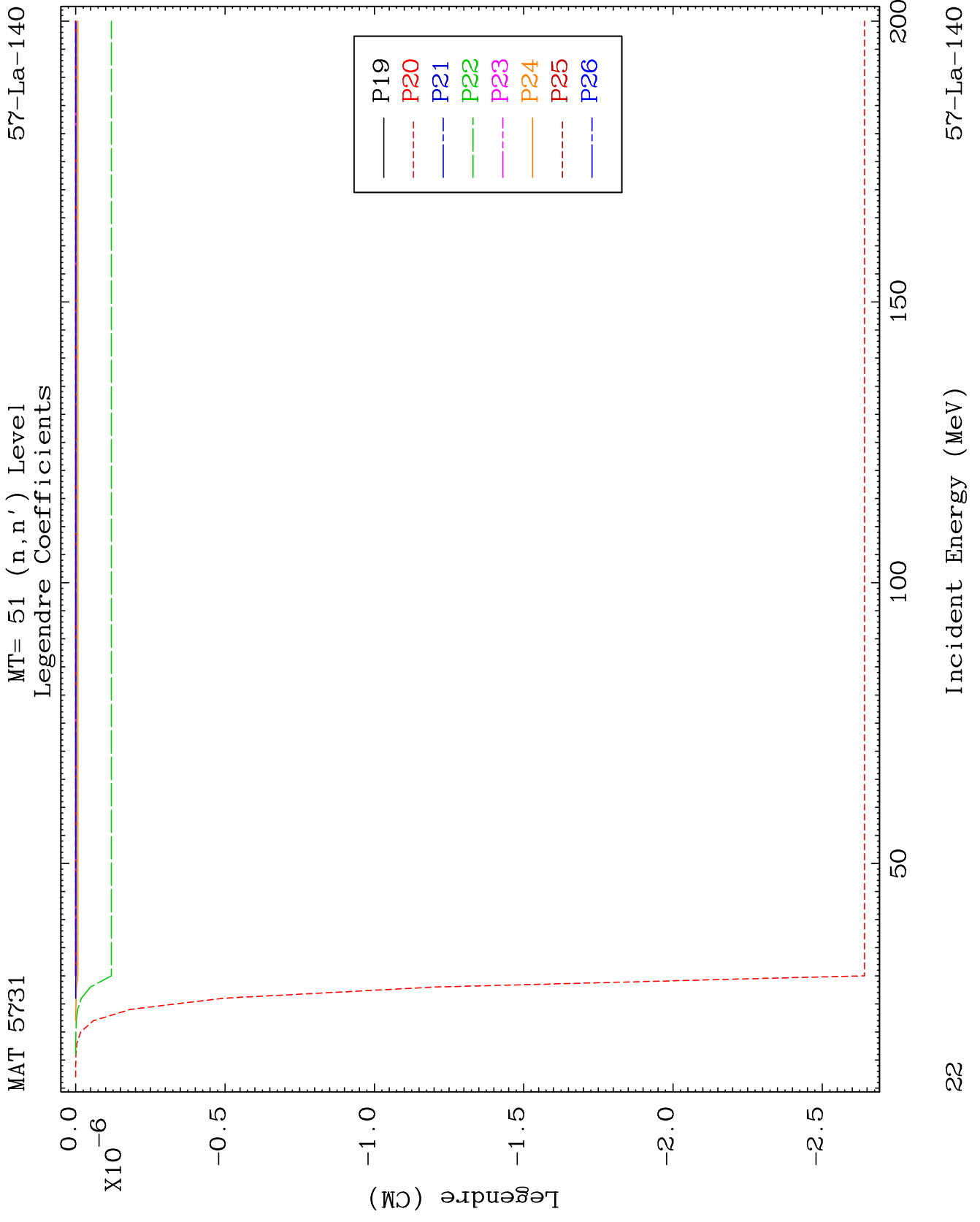
57-La-140



21

Incident Energy (MeV)

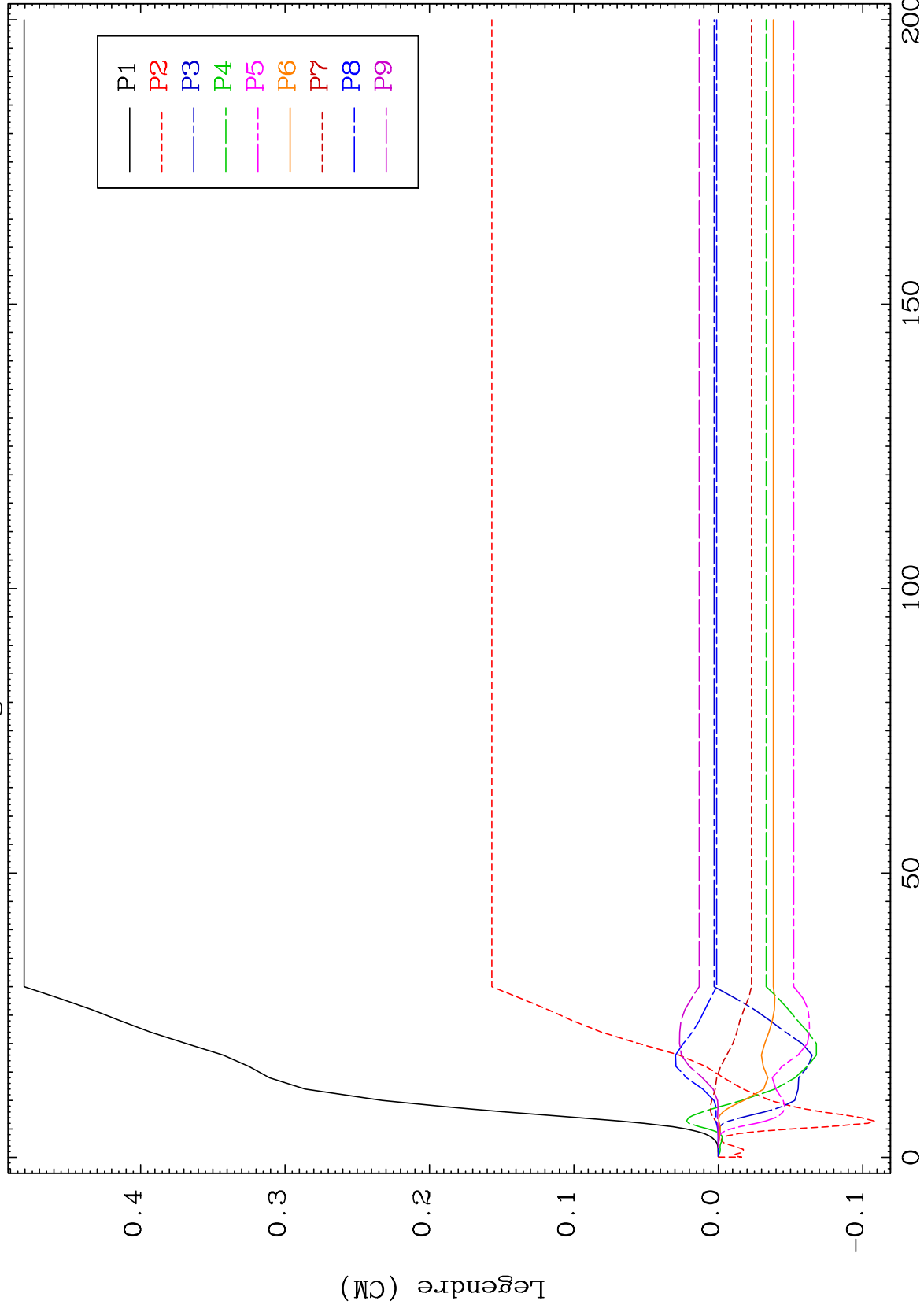
57-La-140



MAT 5731

MT= 52 (n,n') Level
Legendre Coefficients

57-La-140



23

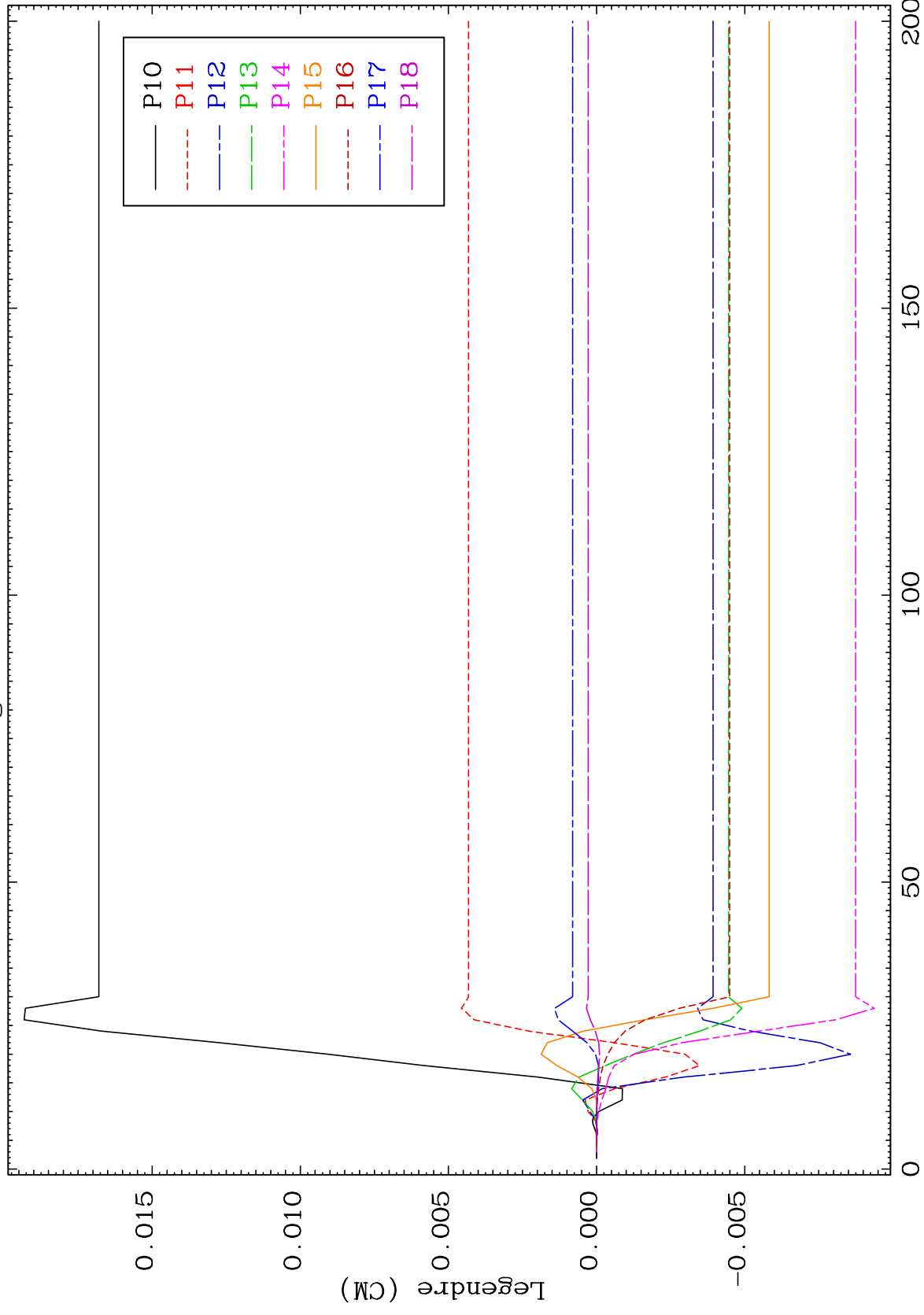
Incident Energy (MeV)

57-La-140

MAT 5731

MT= 52 (n,n') Level
Legendre Coefficients

57-La-140



24

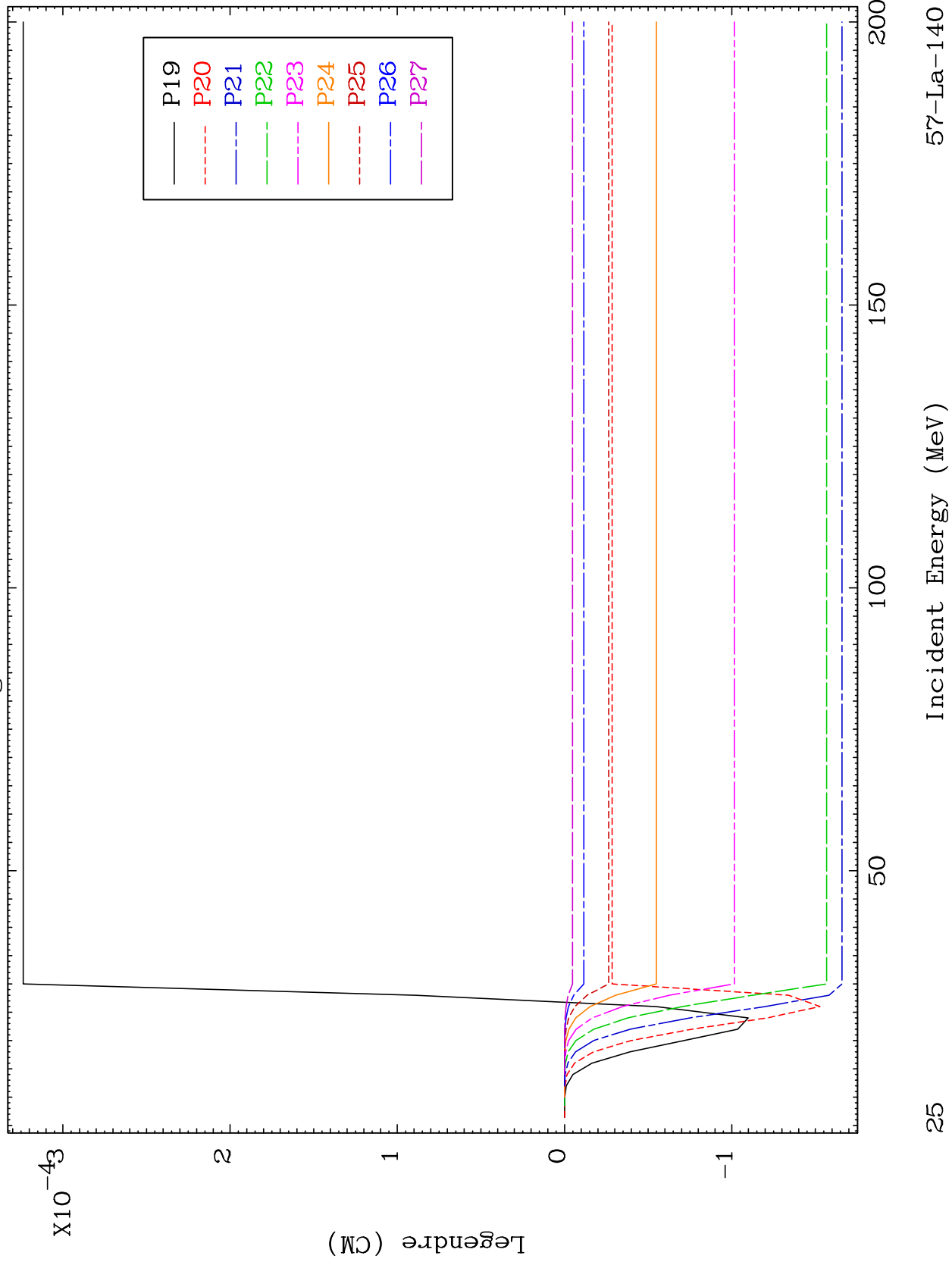
Incident Energy (MeV)

57-La-140

MAT 5731

MT= 52 (n,n') Level
Legendre Coefficients

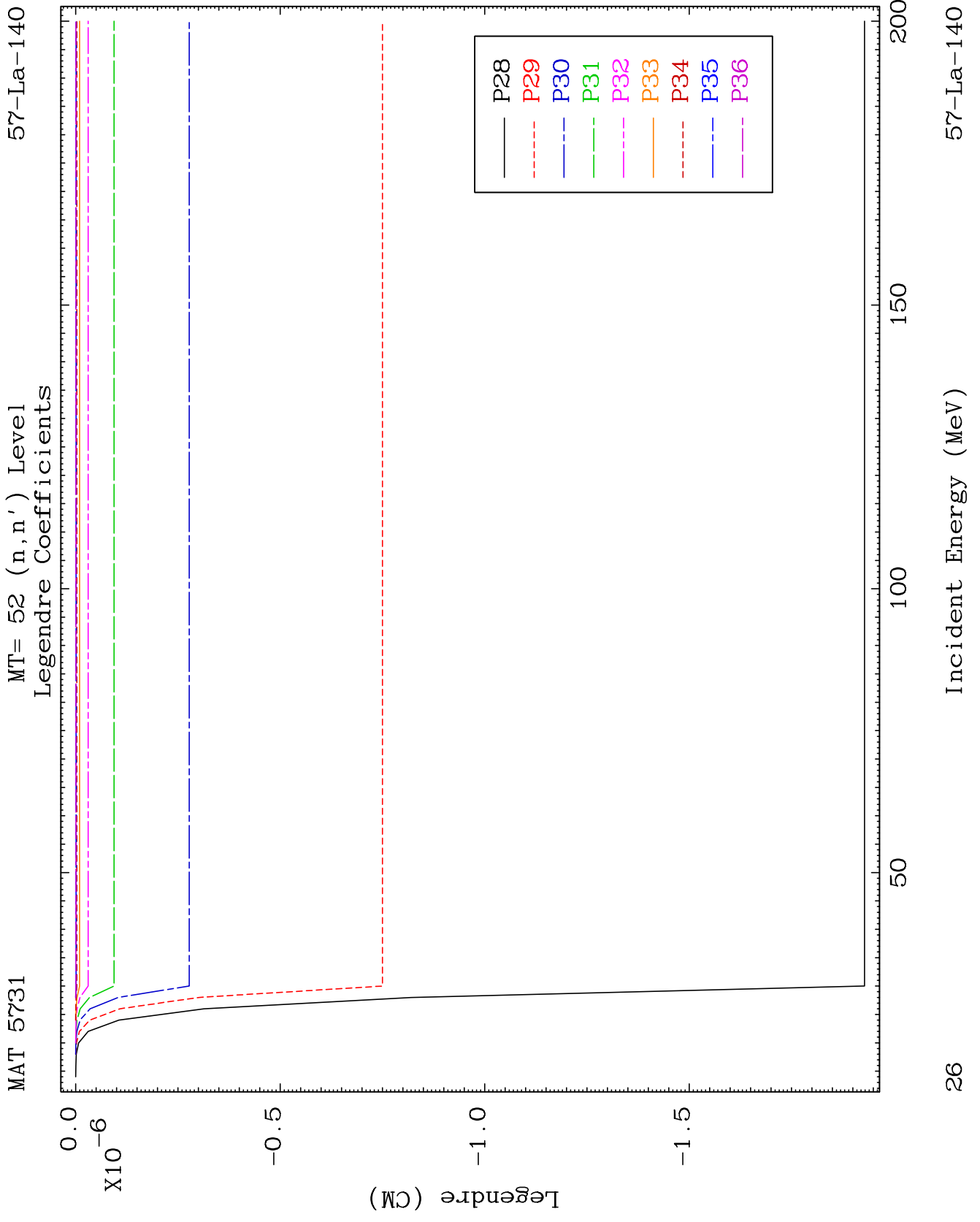
57-La-140



25

Incident Energy (MeV)

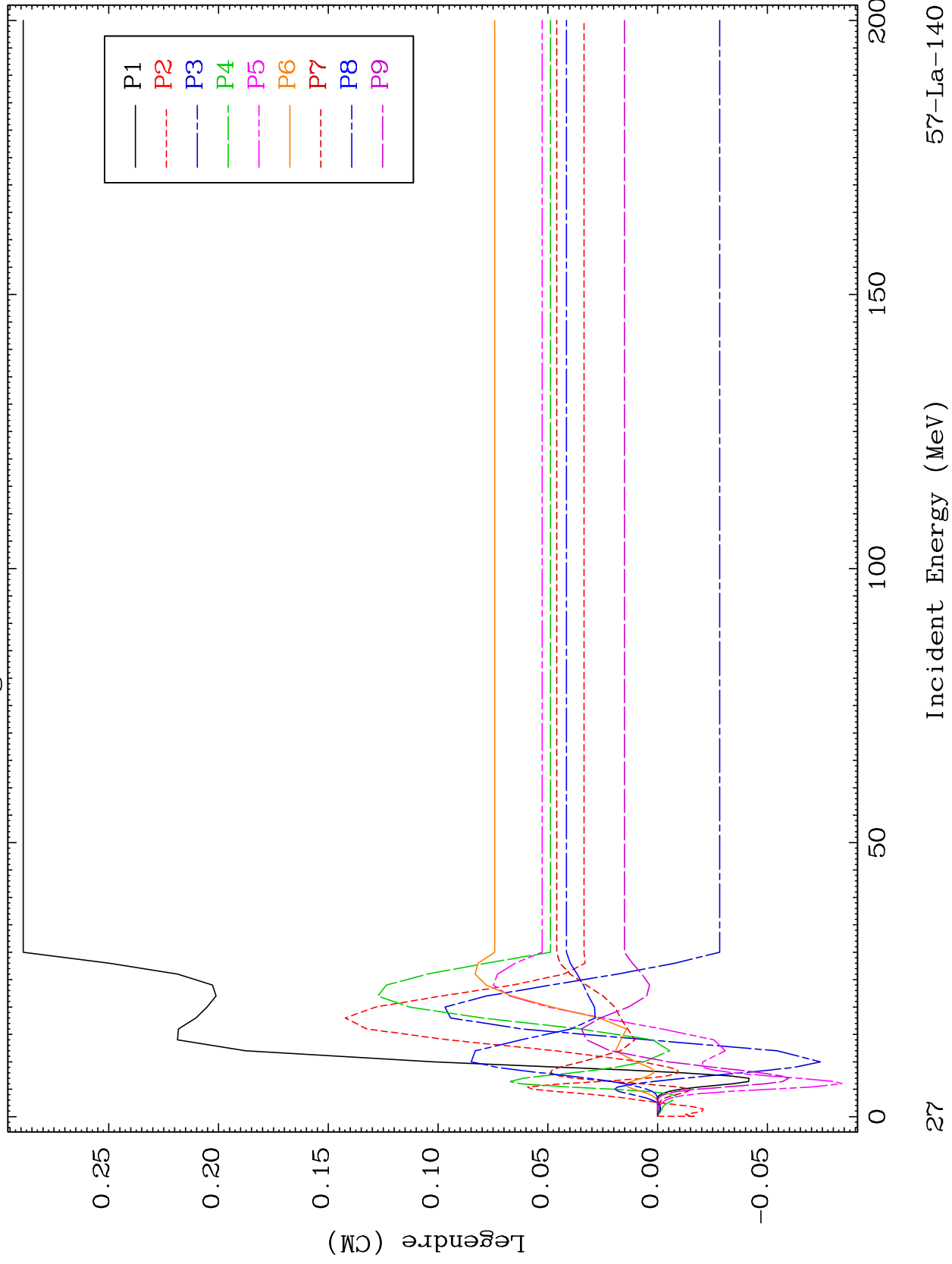
57-La-140



MAT 5731

MT= 53 (n,n') Level
Legendre Coefficients

57-La-140



27

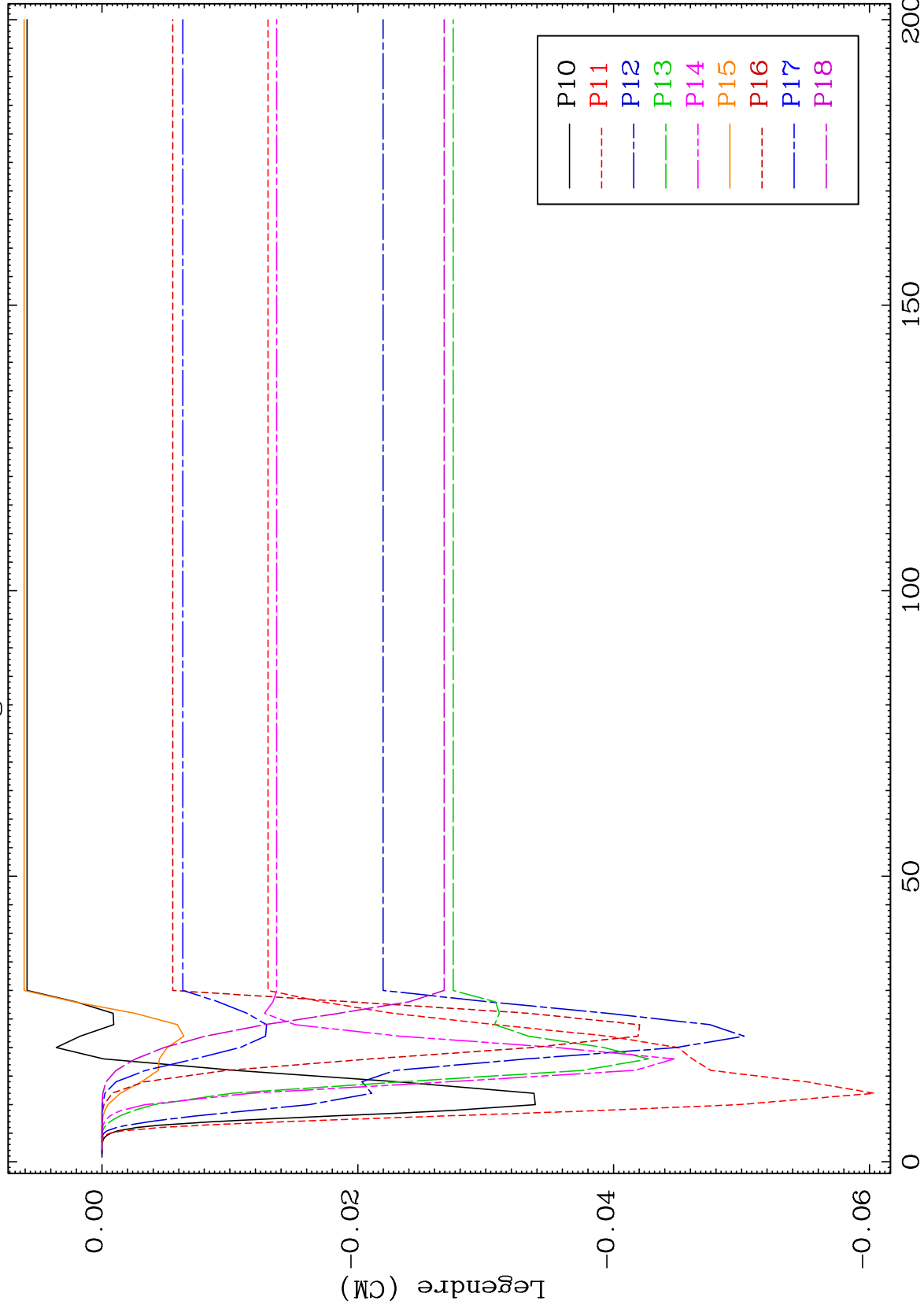
Incident Energy (MeV)

57-La-140

MAT 5731

MT= 53 (n,n') Level
Legendre Coefficients

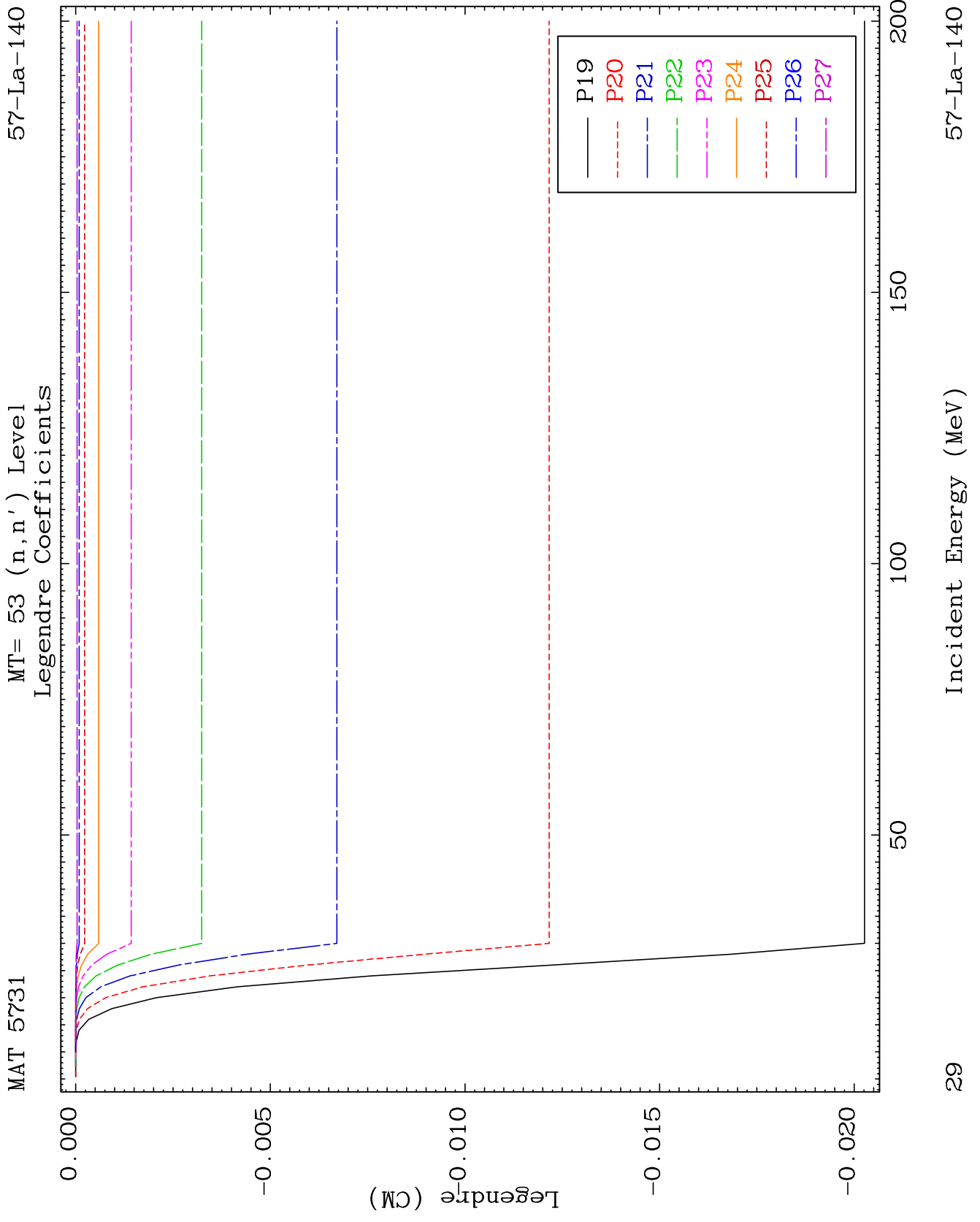
57-La-140

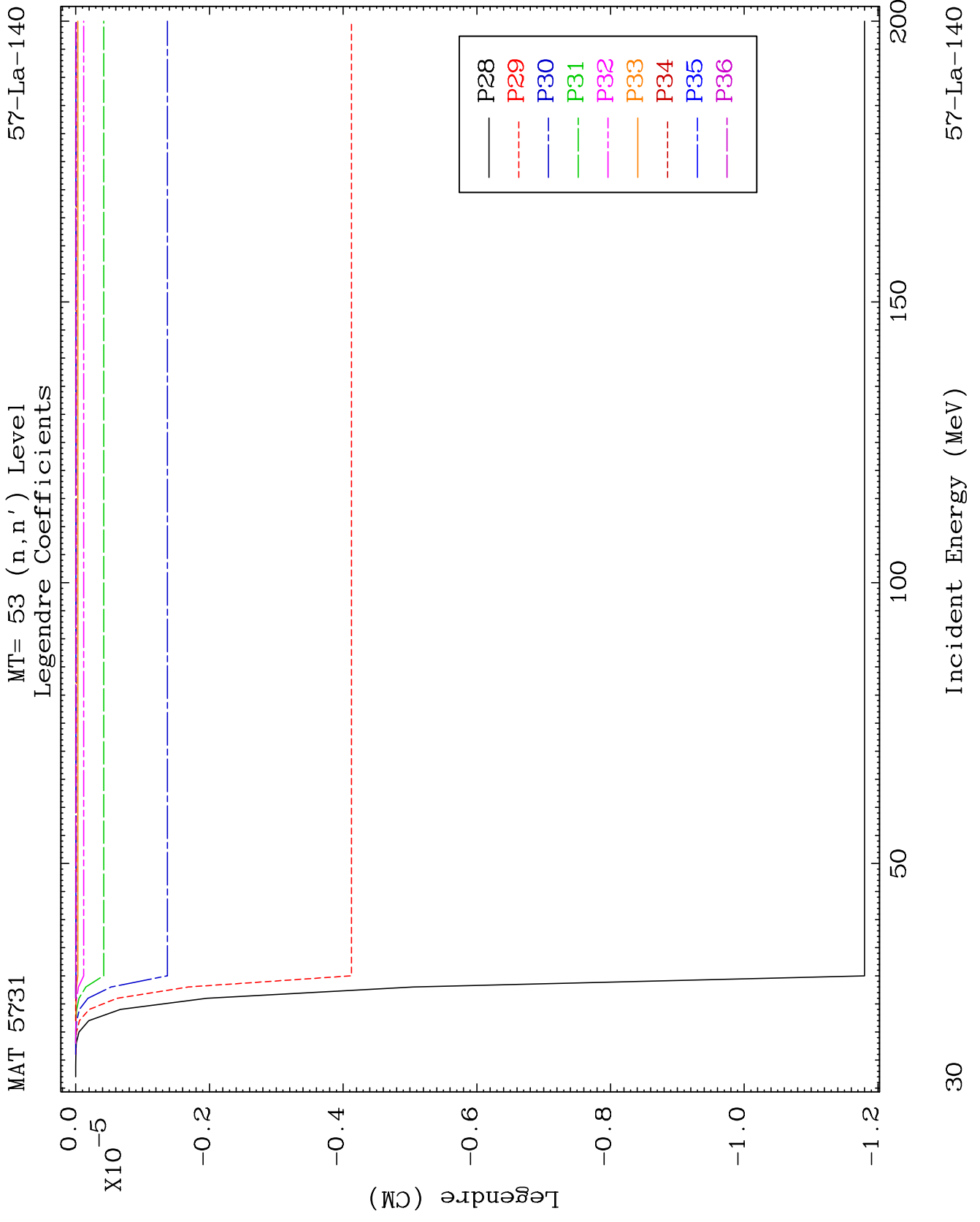


28

Incident Energy (MeV)

57-La-140

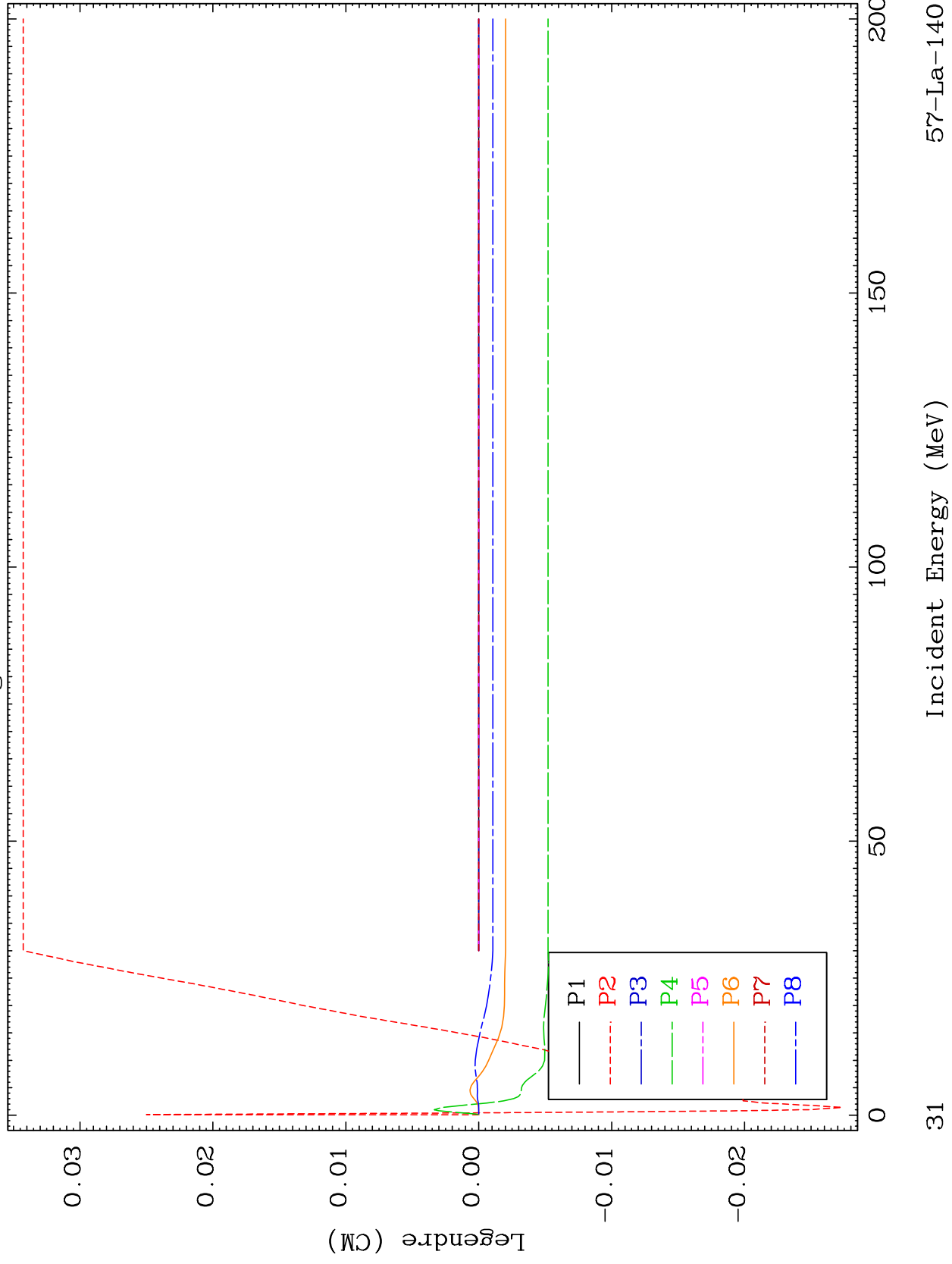




MAT 5731

MT= 54 (n,n') Level
Legendre Coefficients

57-La-140



31

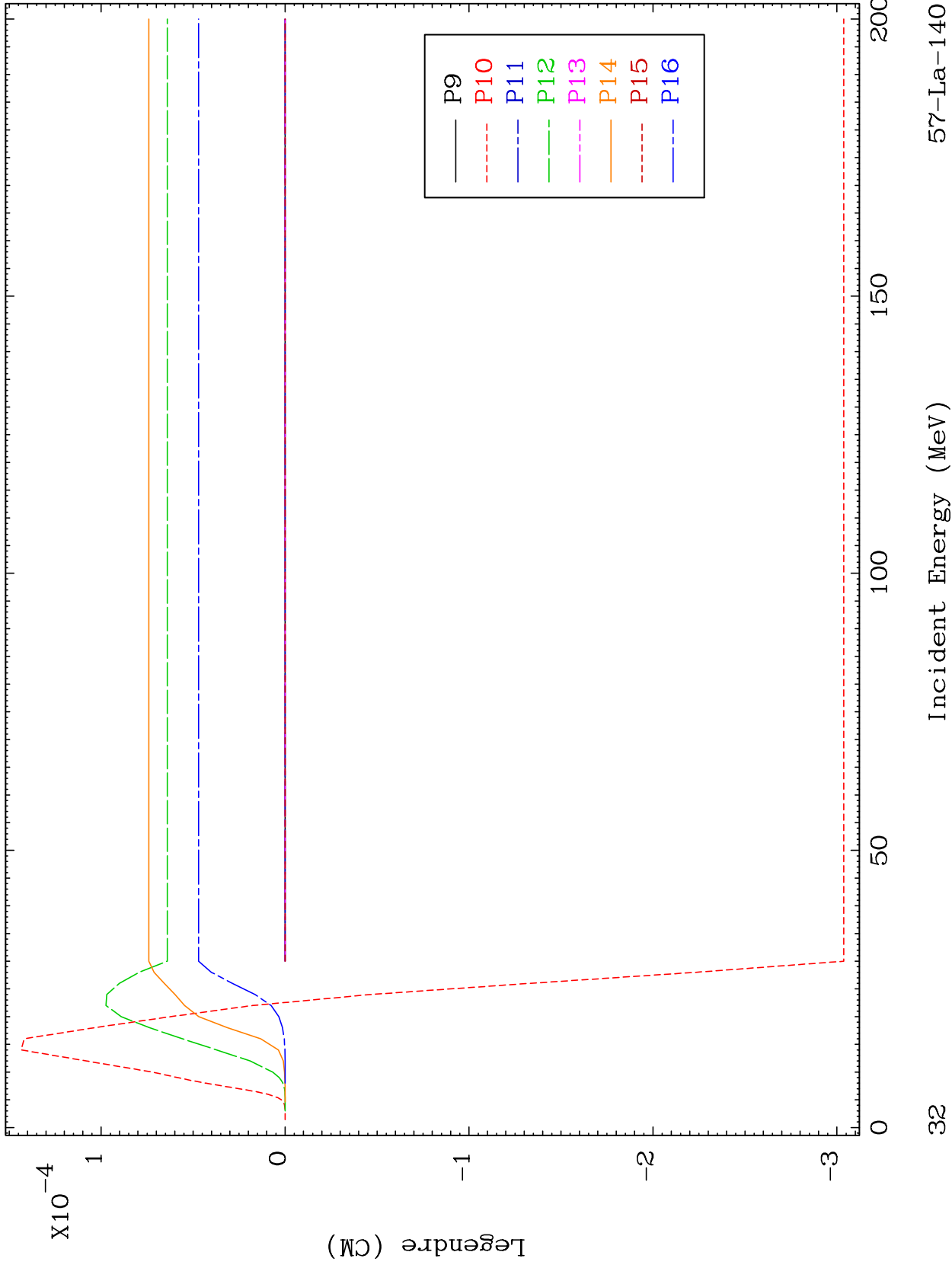
Incident Energy (MeV)

57-La-140

MAT 5731

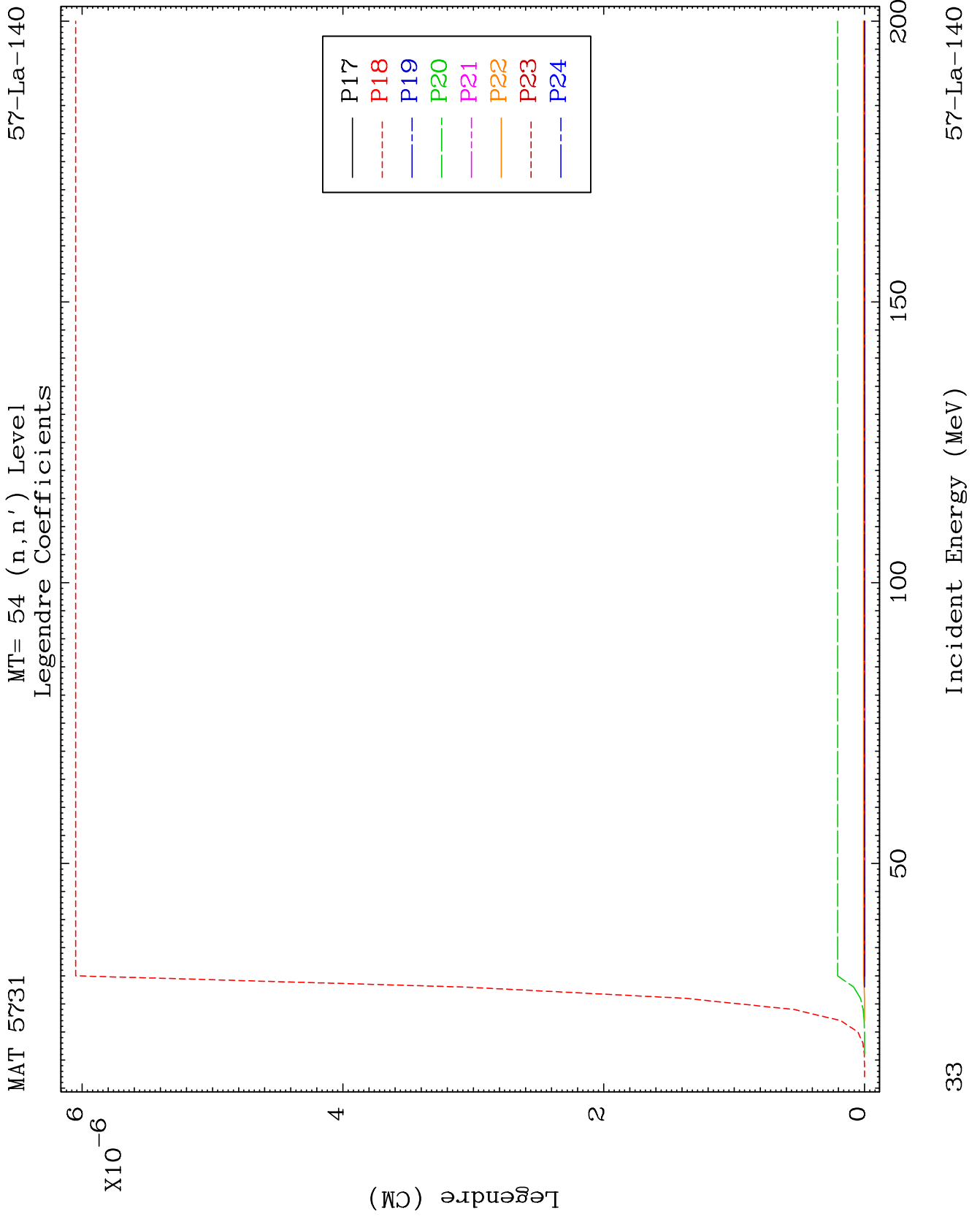
MT= 54 (n,n') Level
Legendre Coefficients

57-La-140



32

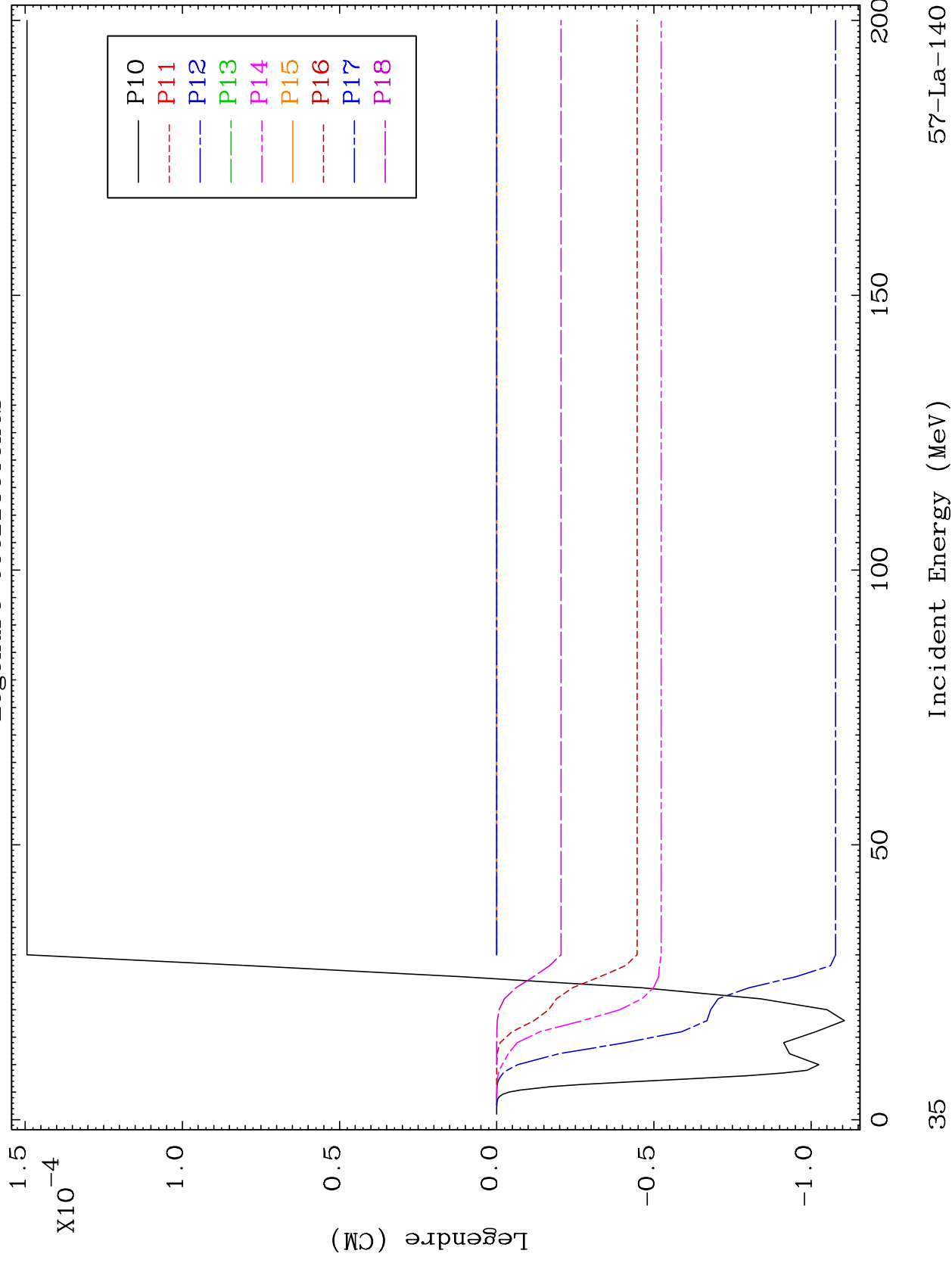
57-La-140



MAT 5731

MT= 55 (n,n') Level
Legendre Coefficients

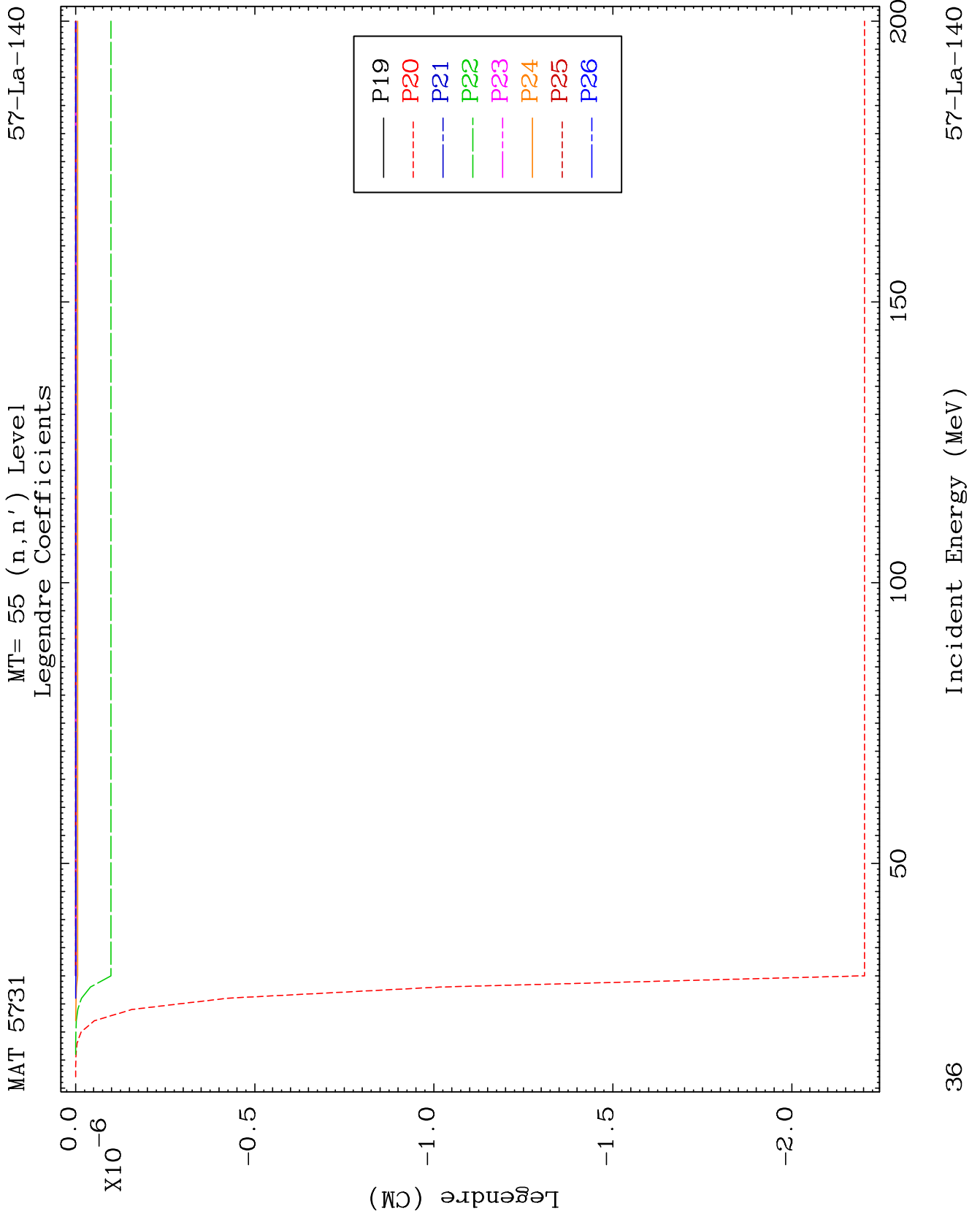
57-La-140



57-La-140

Incident Energy (MeV)

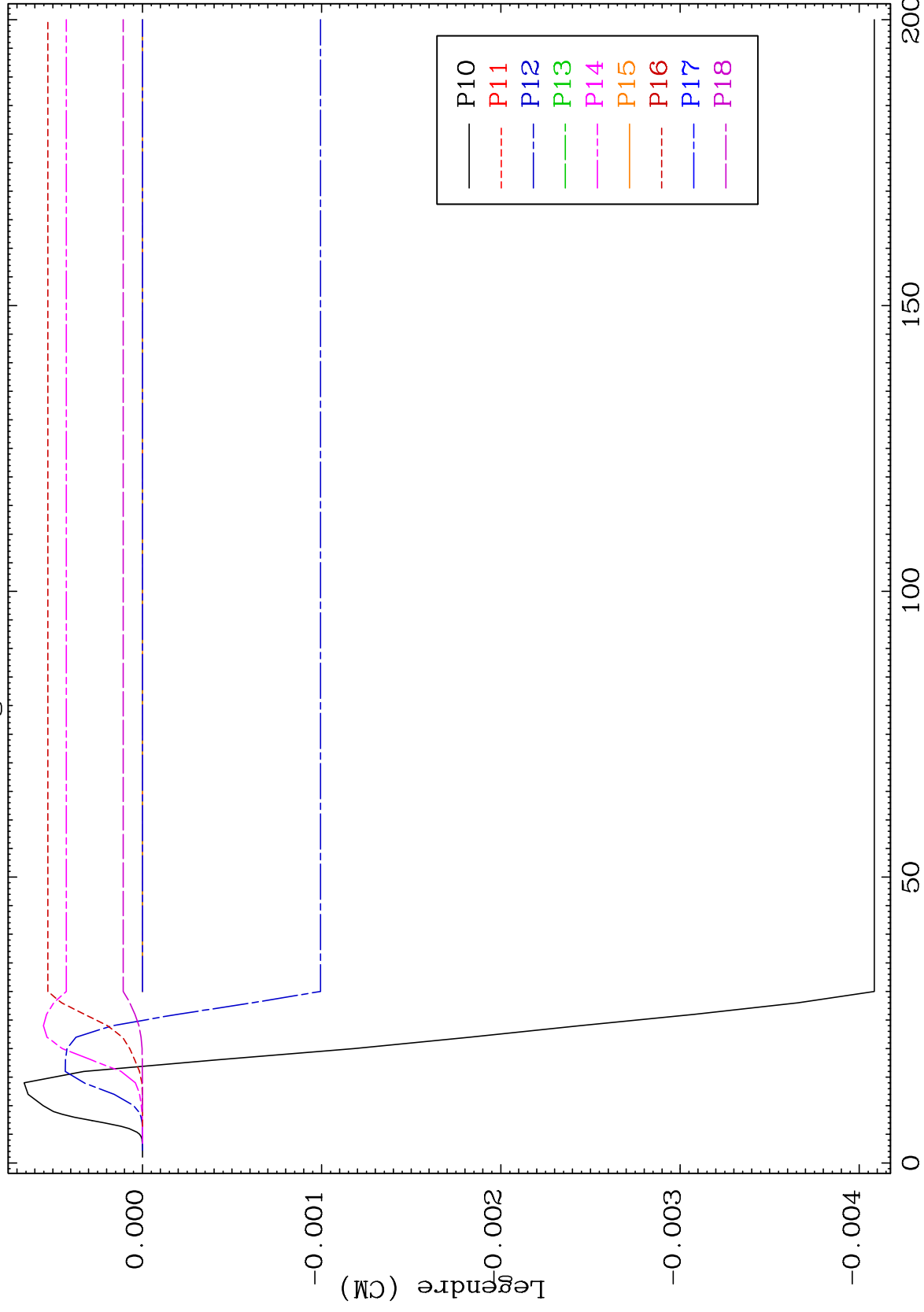
35



MAT 5731

MT= 56 (n,n') Level
Legendre Coefficients

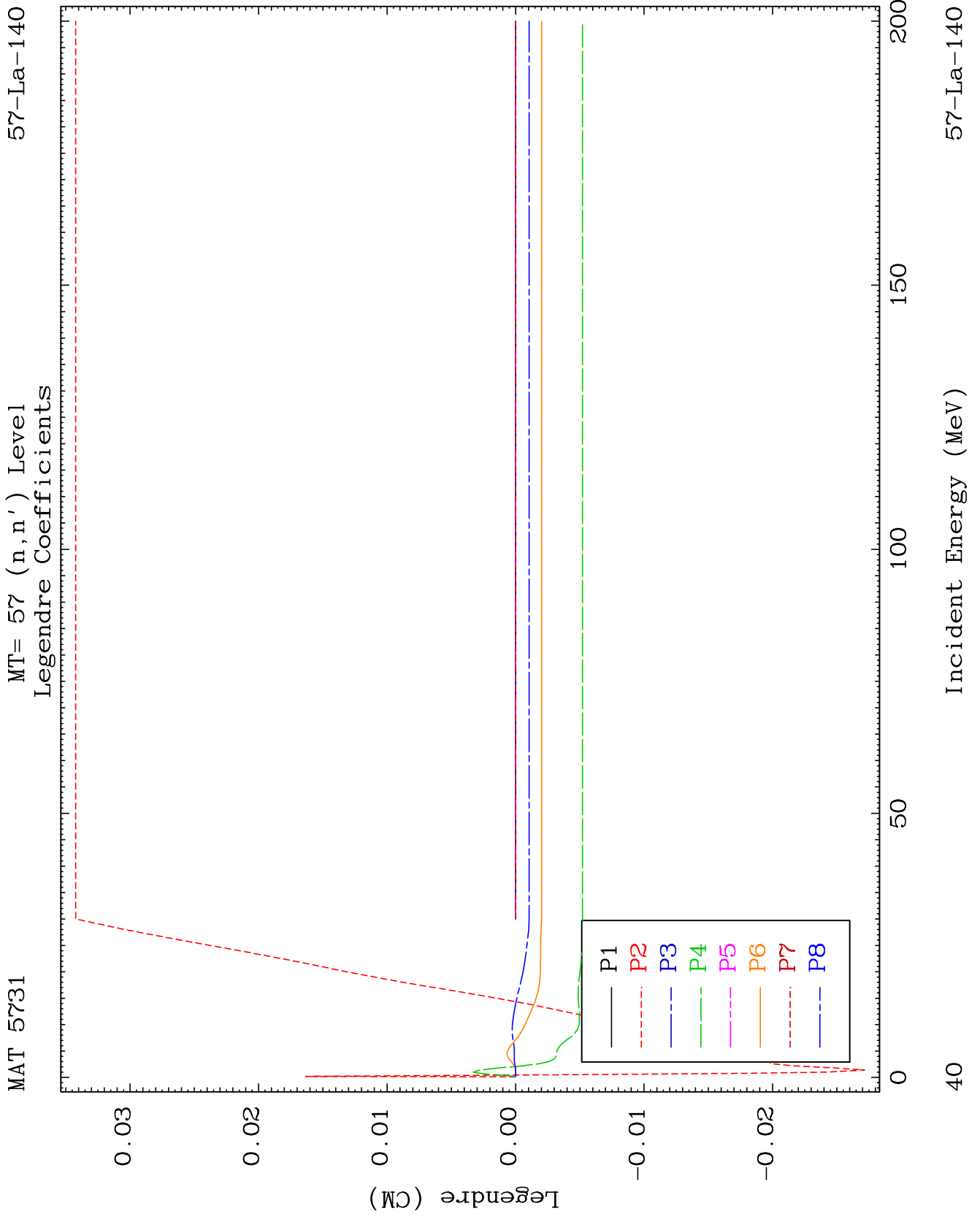
57-La-140



38

Incident Energy (MeV)

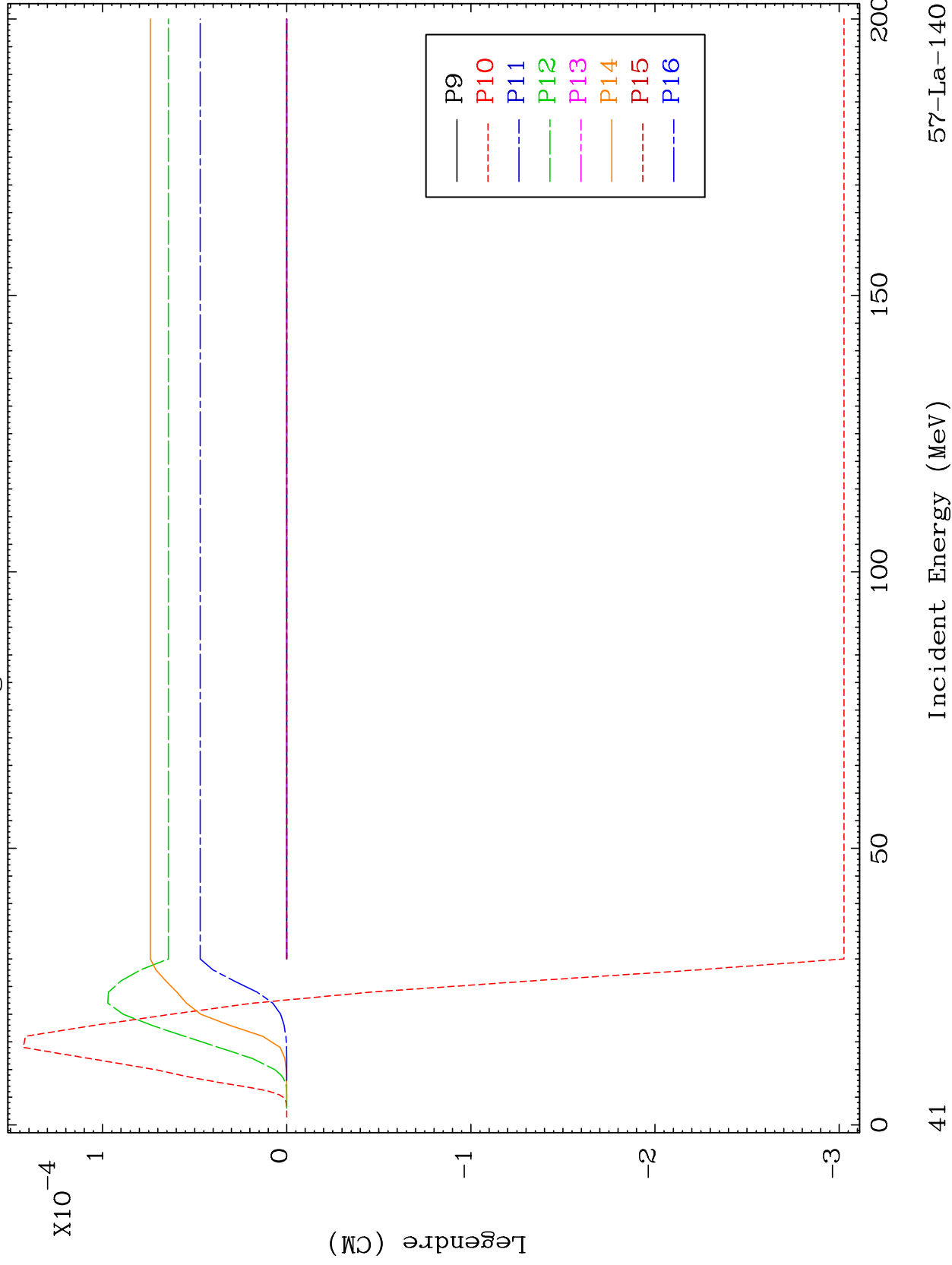
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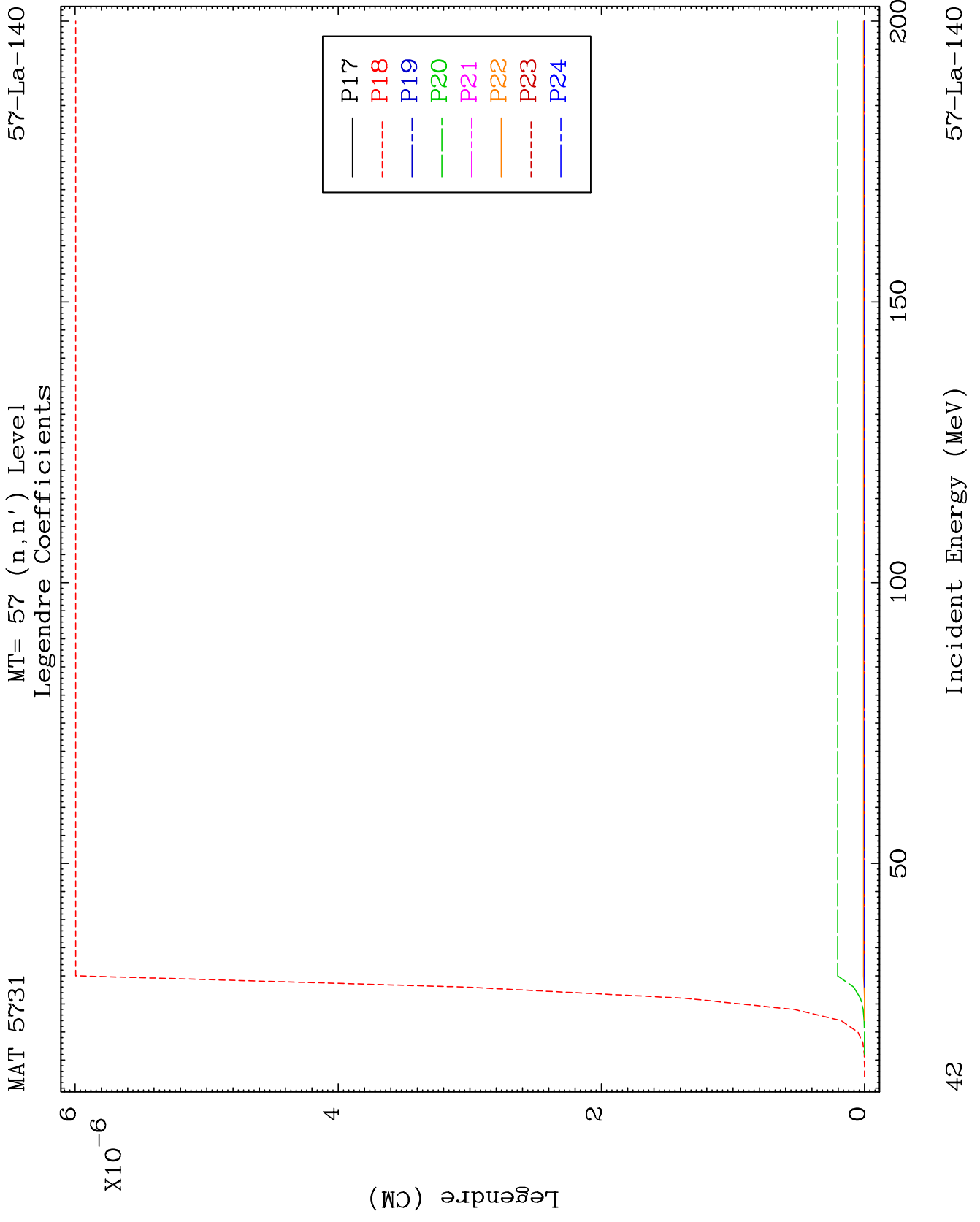


MAT 5731

MT= 57 (n,n') Level
Legendre Coefficients

57-La-140

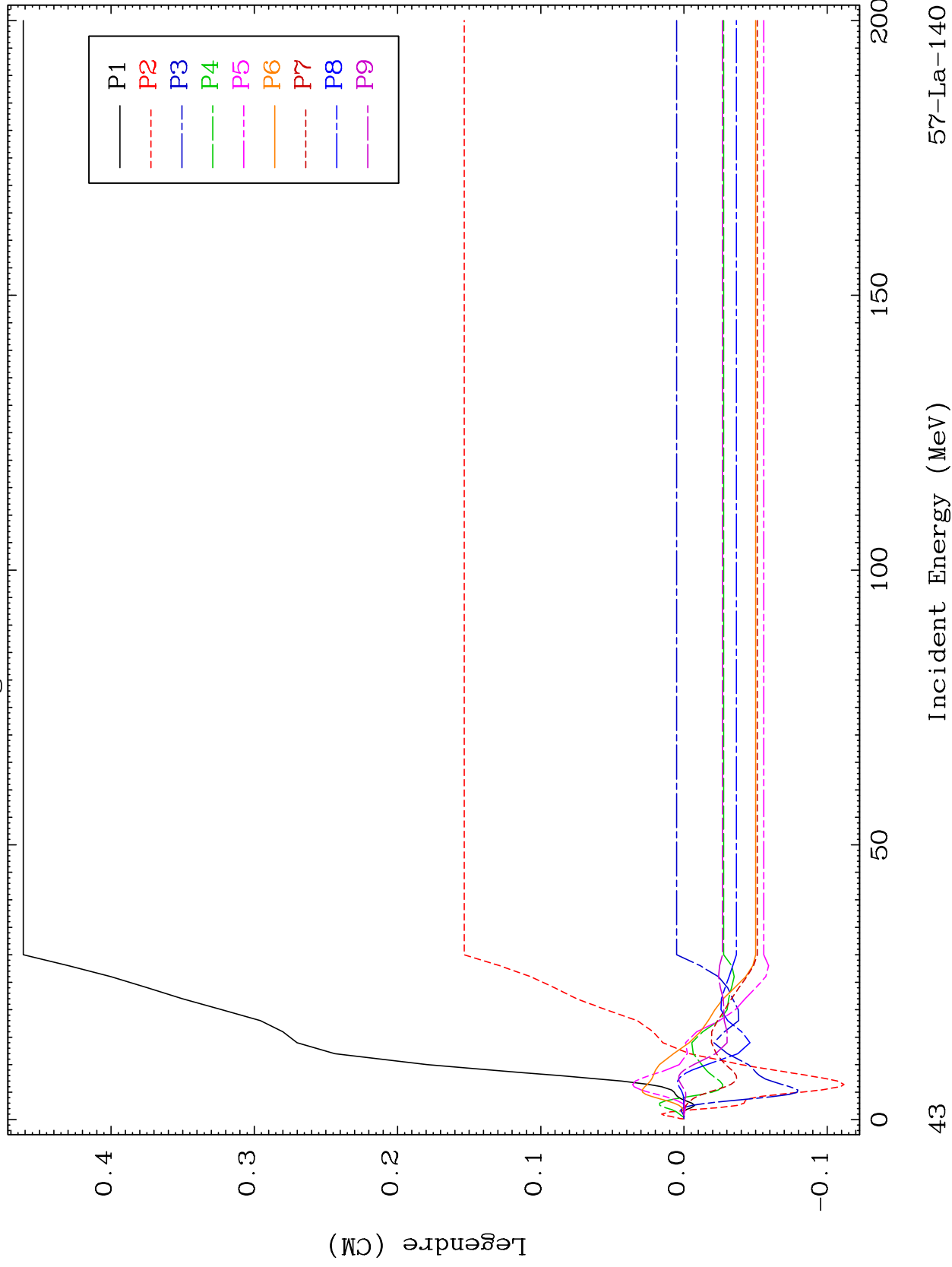




MAT 5731

MT= 58 (n,n') Level
Legendre Coefficients

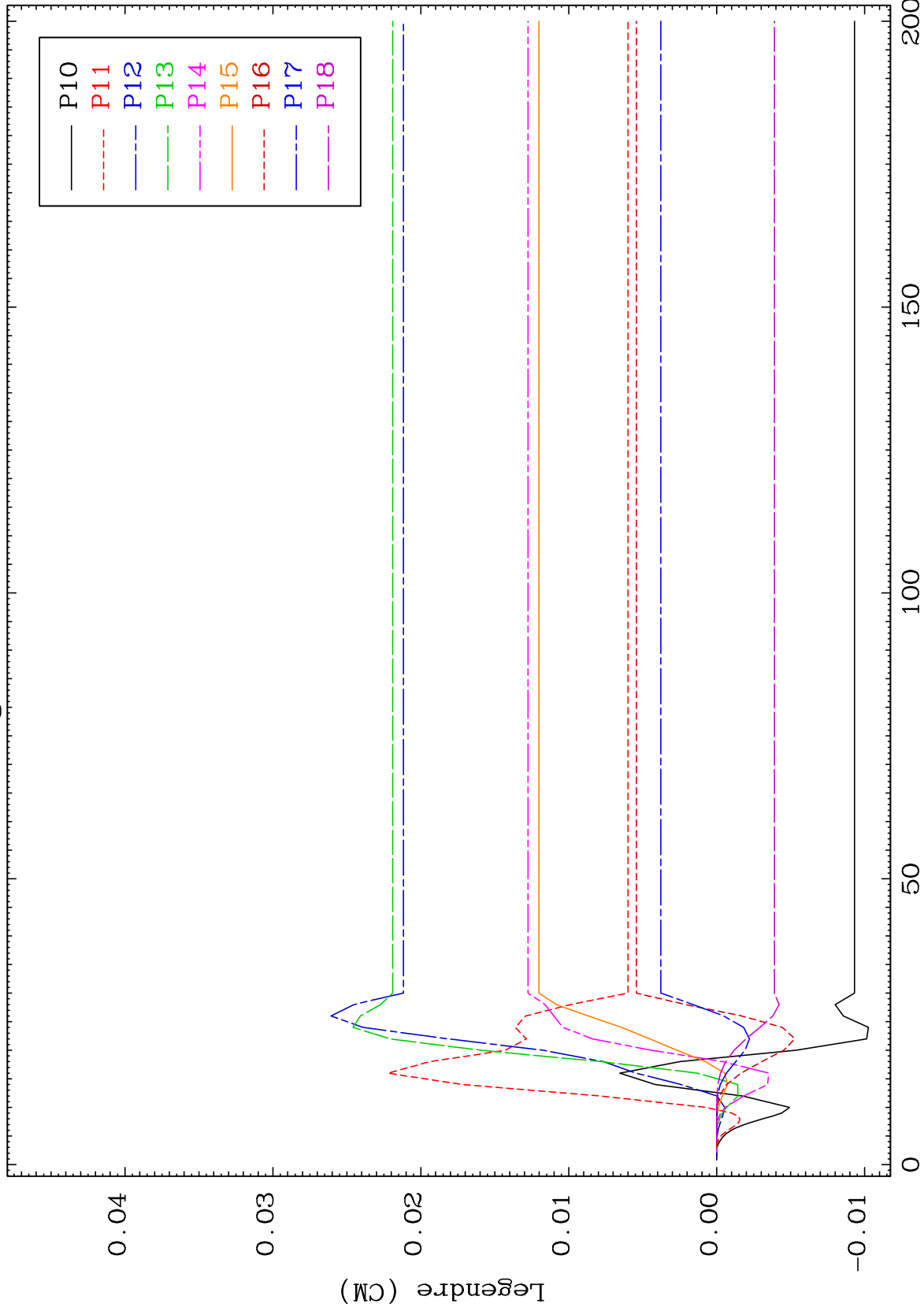
57-La-140



MAT 5731

MT= 58 (n,n') Level
Legendre Coefficients

57-La-140



44

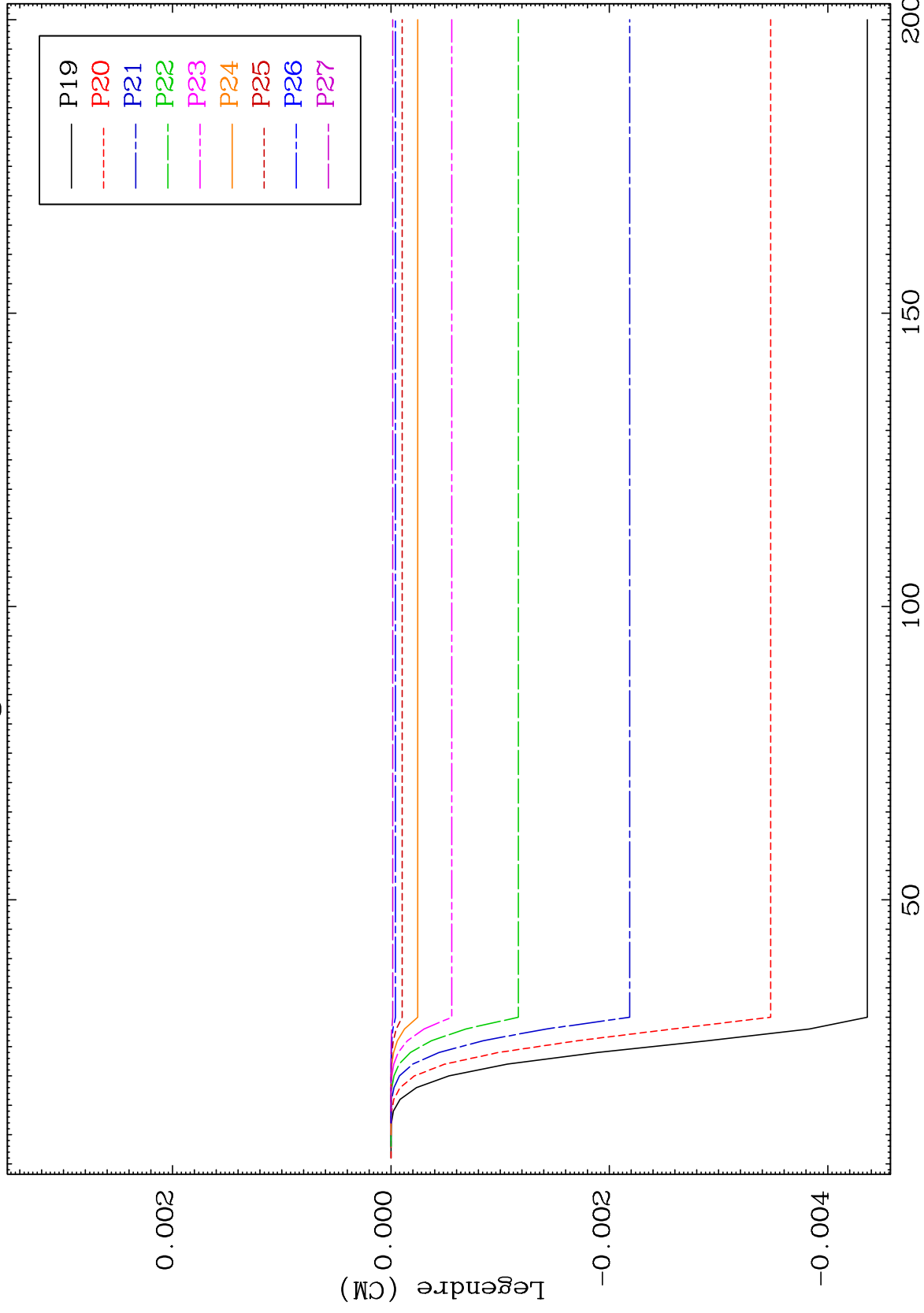
Incident Energy (MeV)

57-La-140

MAT 5731

MT= 58 (n,n') Level
Legendre Coefficients

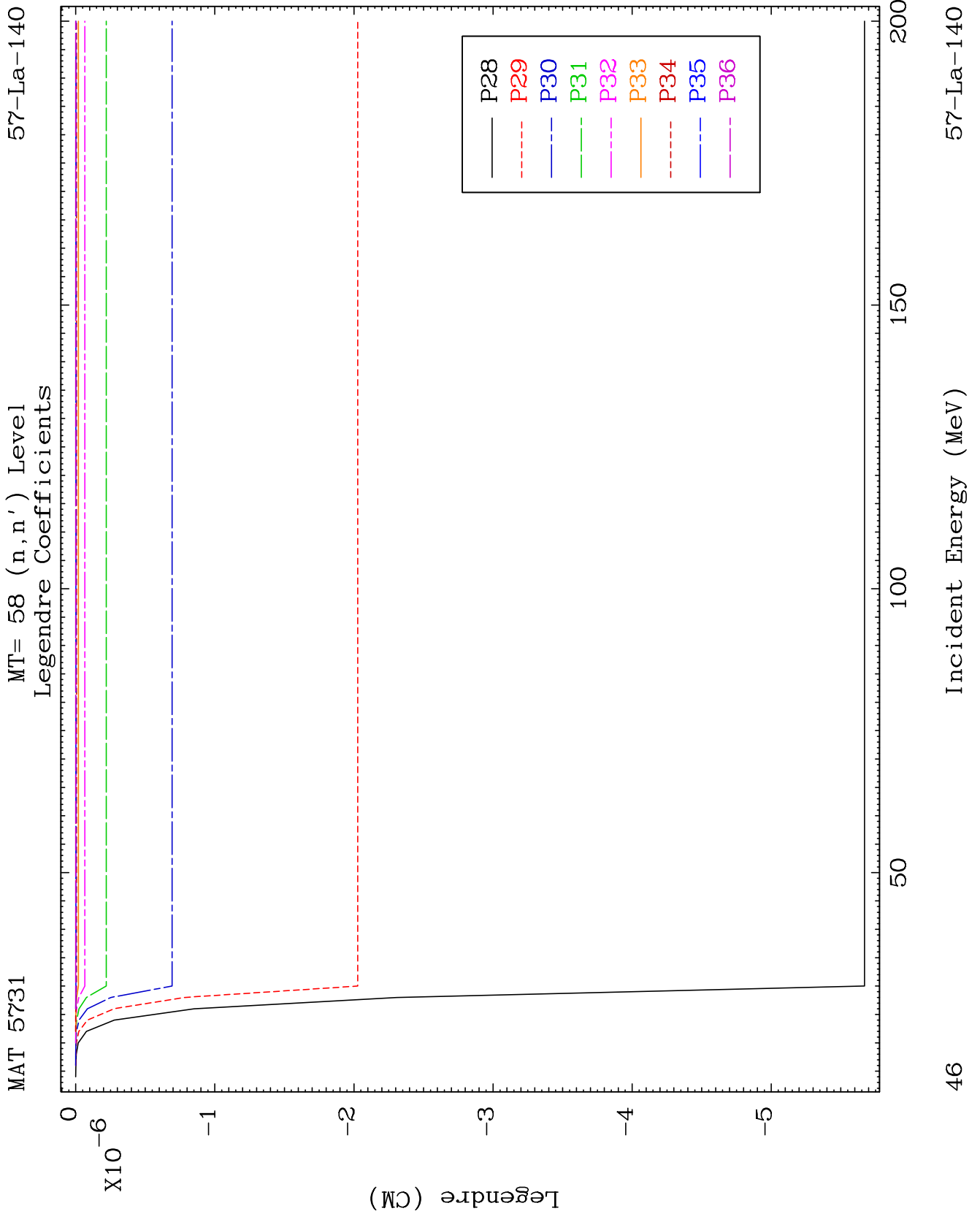
57-La-140

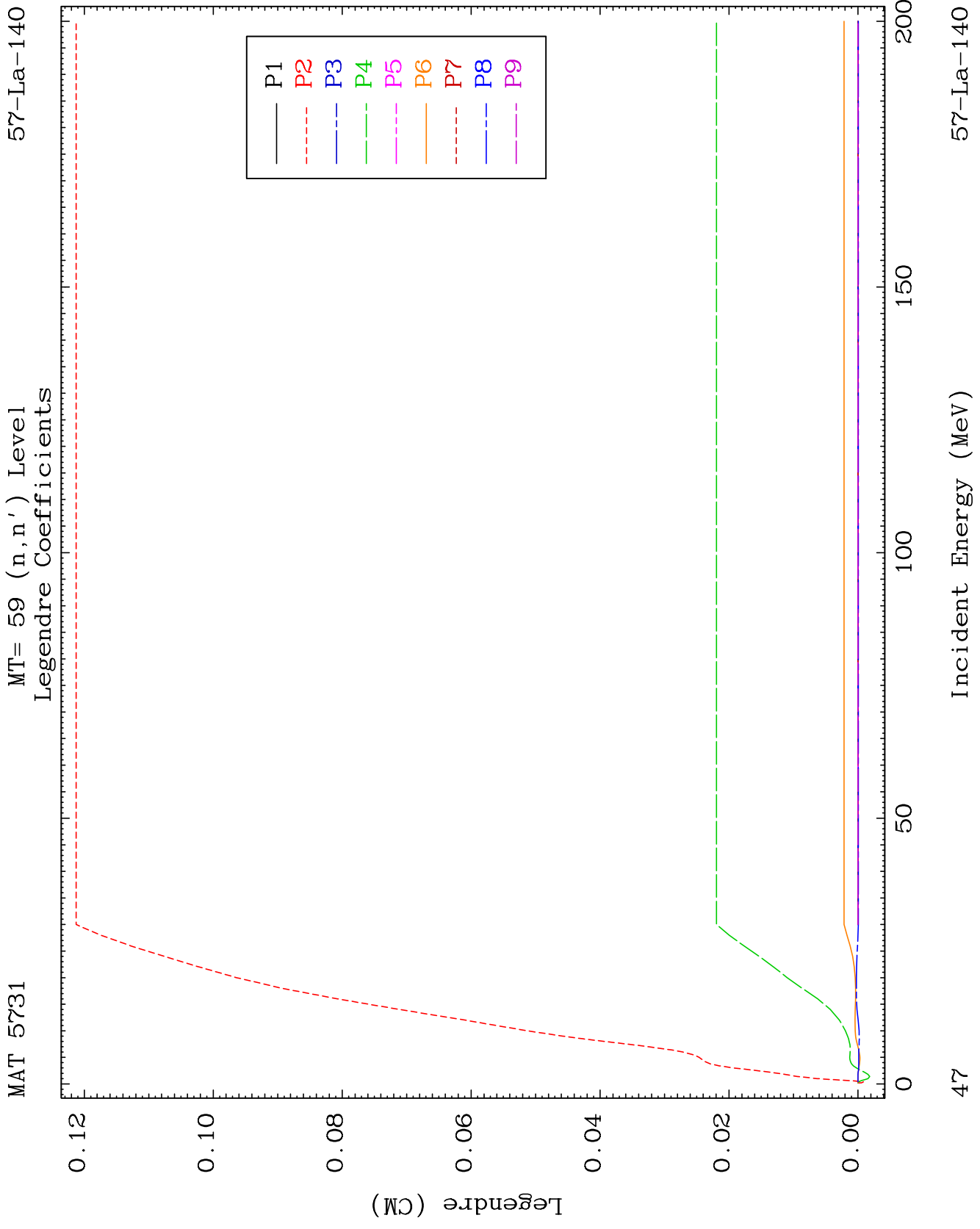


45

Incident Energy (MeV)

57-La-140

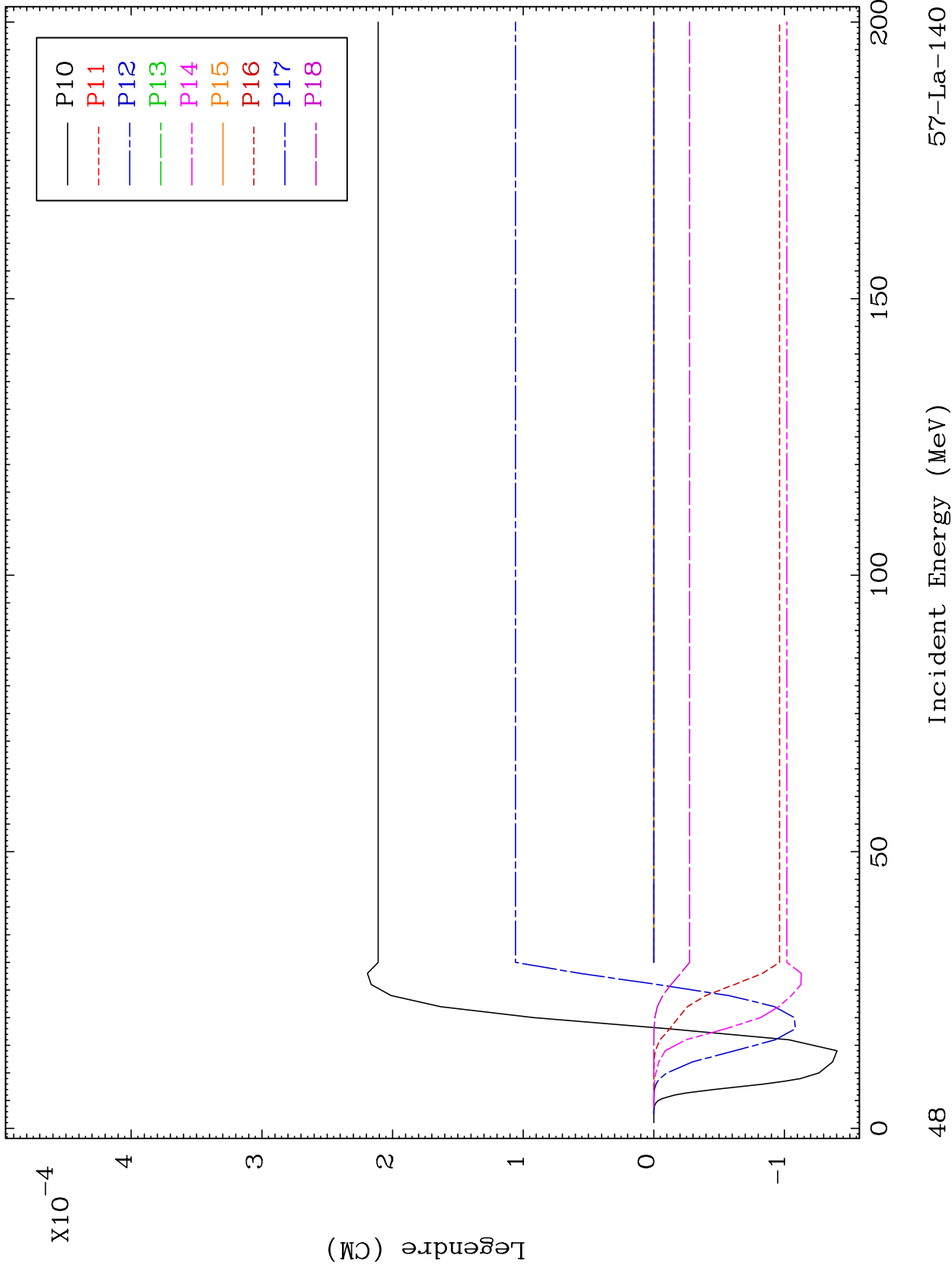




MAT 5731

MT= 59 (n,n') Level
Legendre Coefficients

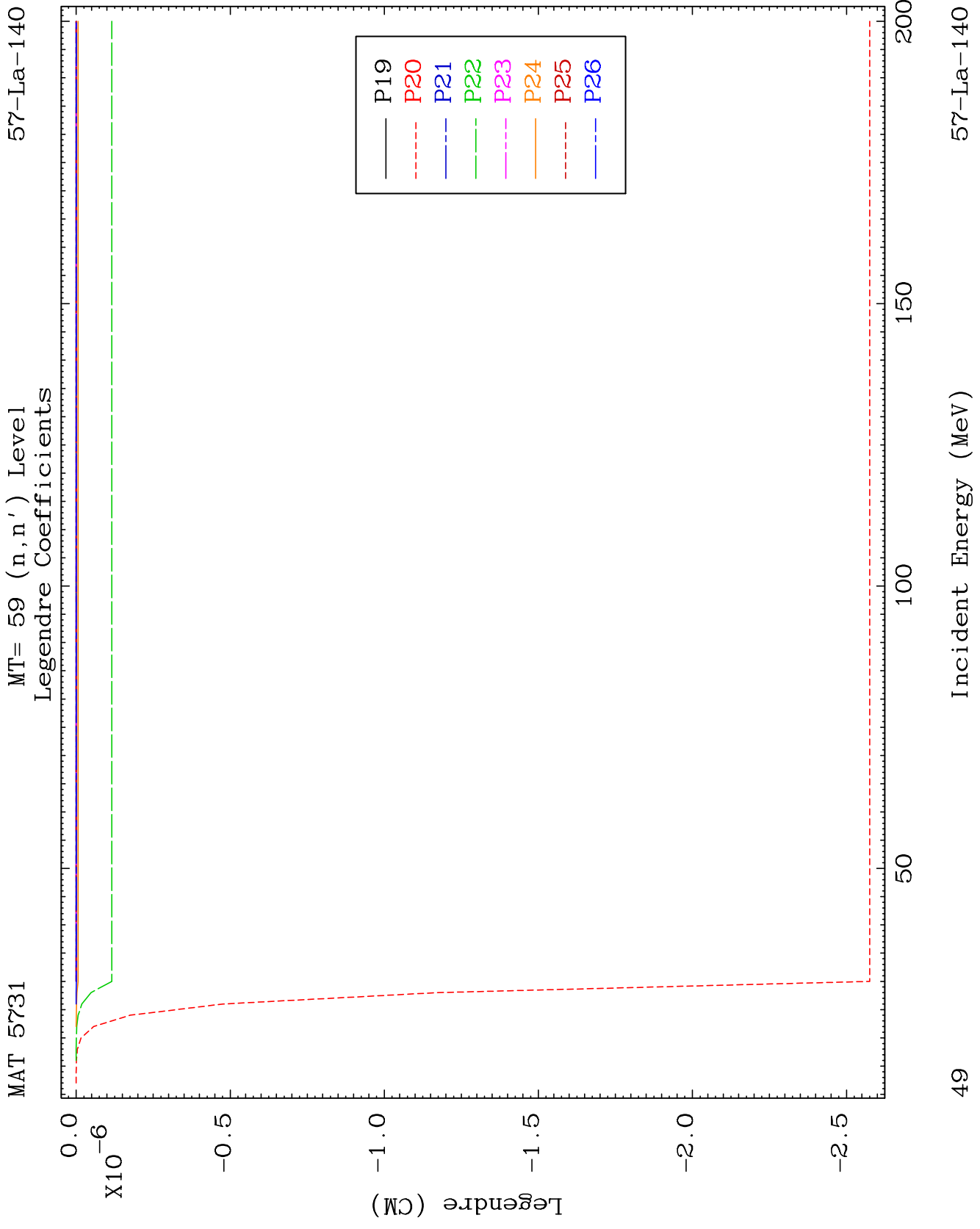
57-La-140

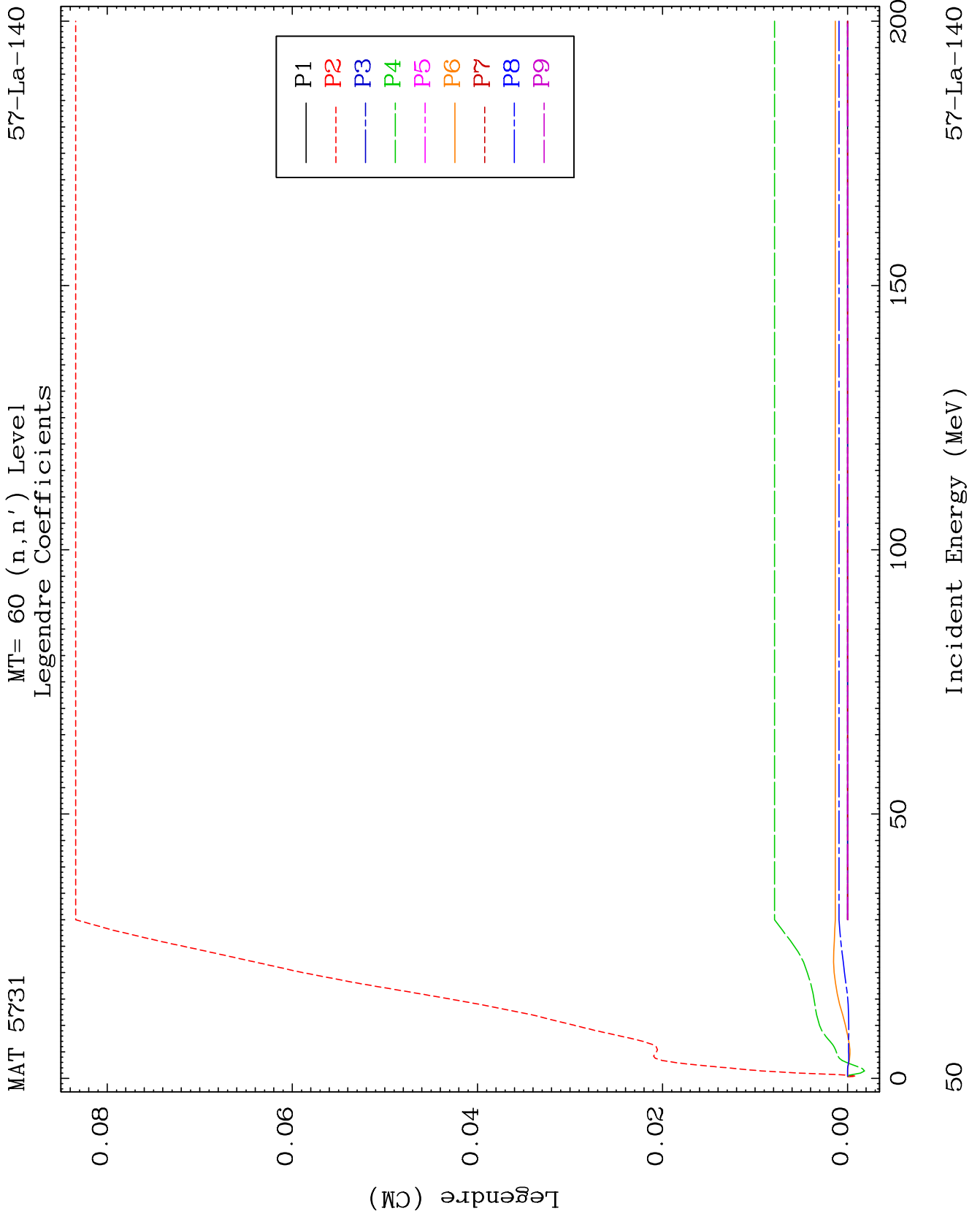


57-La-140

Incident Energy (MeV)

48

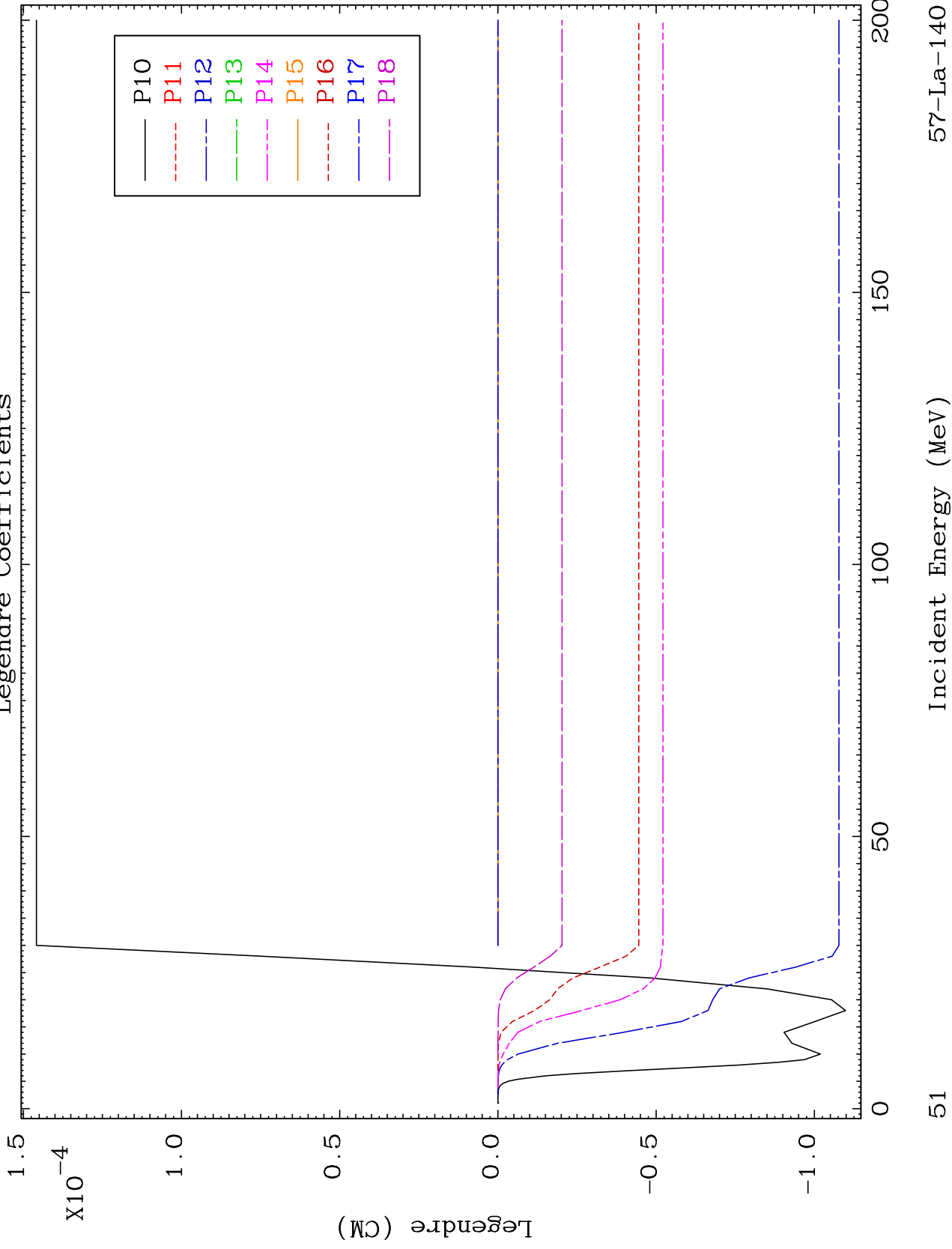




MAT 5731

MT= 60 (n,n') Level
Legendre Coefficients

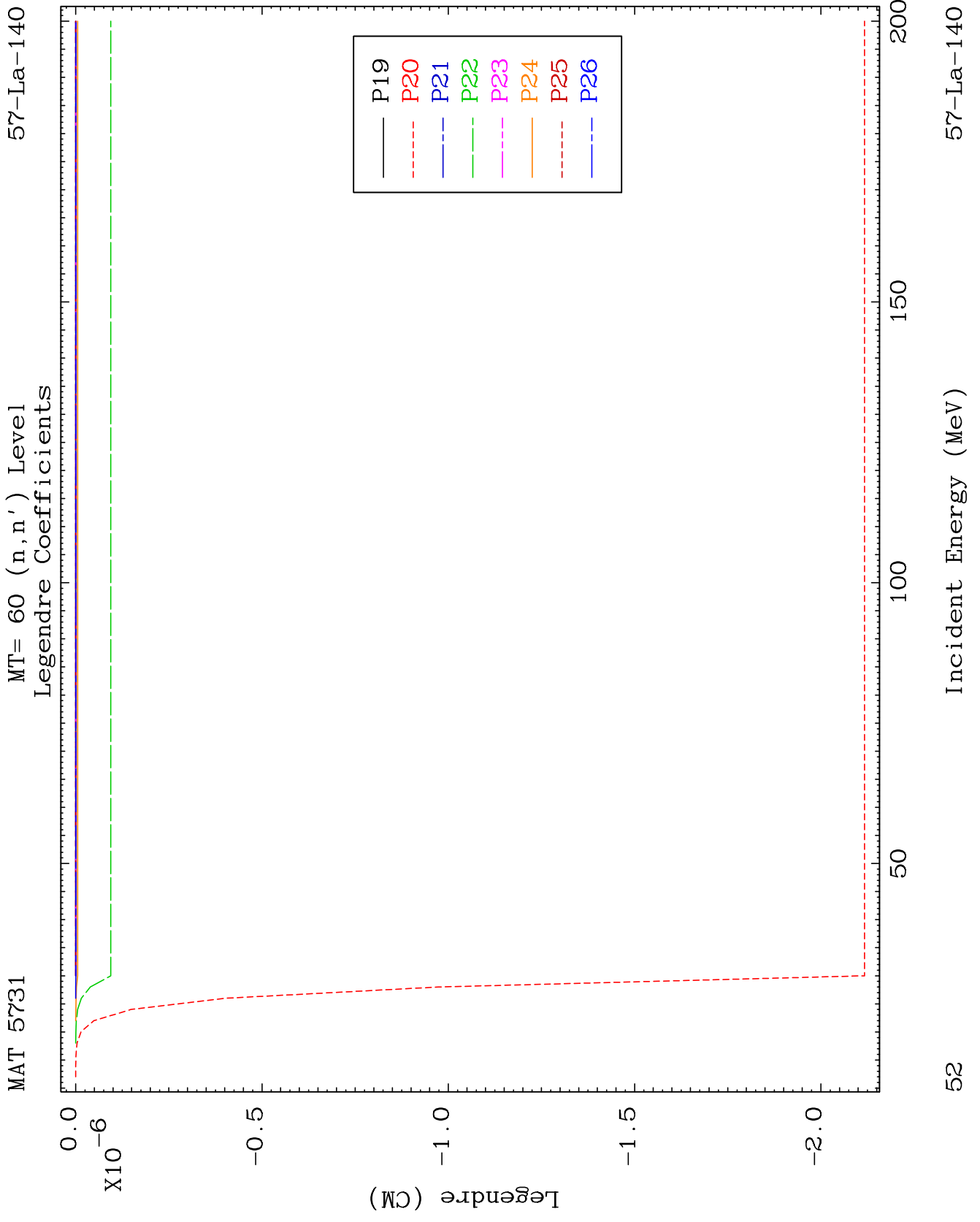
57-La-140



57-La-140

Incident Energy (MeV)

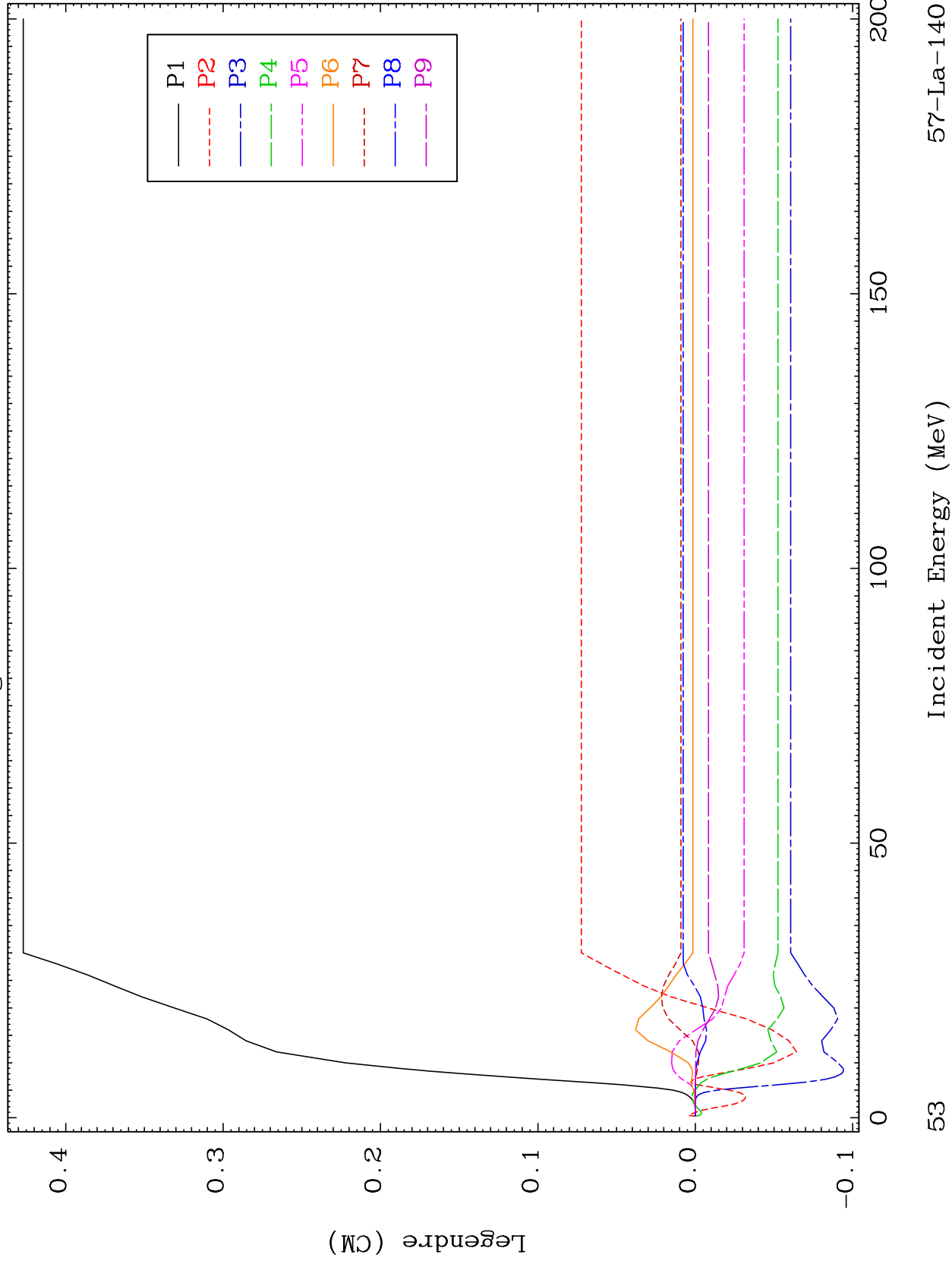
51



MAT 5731

MT= 61 (n,n') Level
Legendre Coefficients

57-La-140



57-La-140

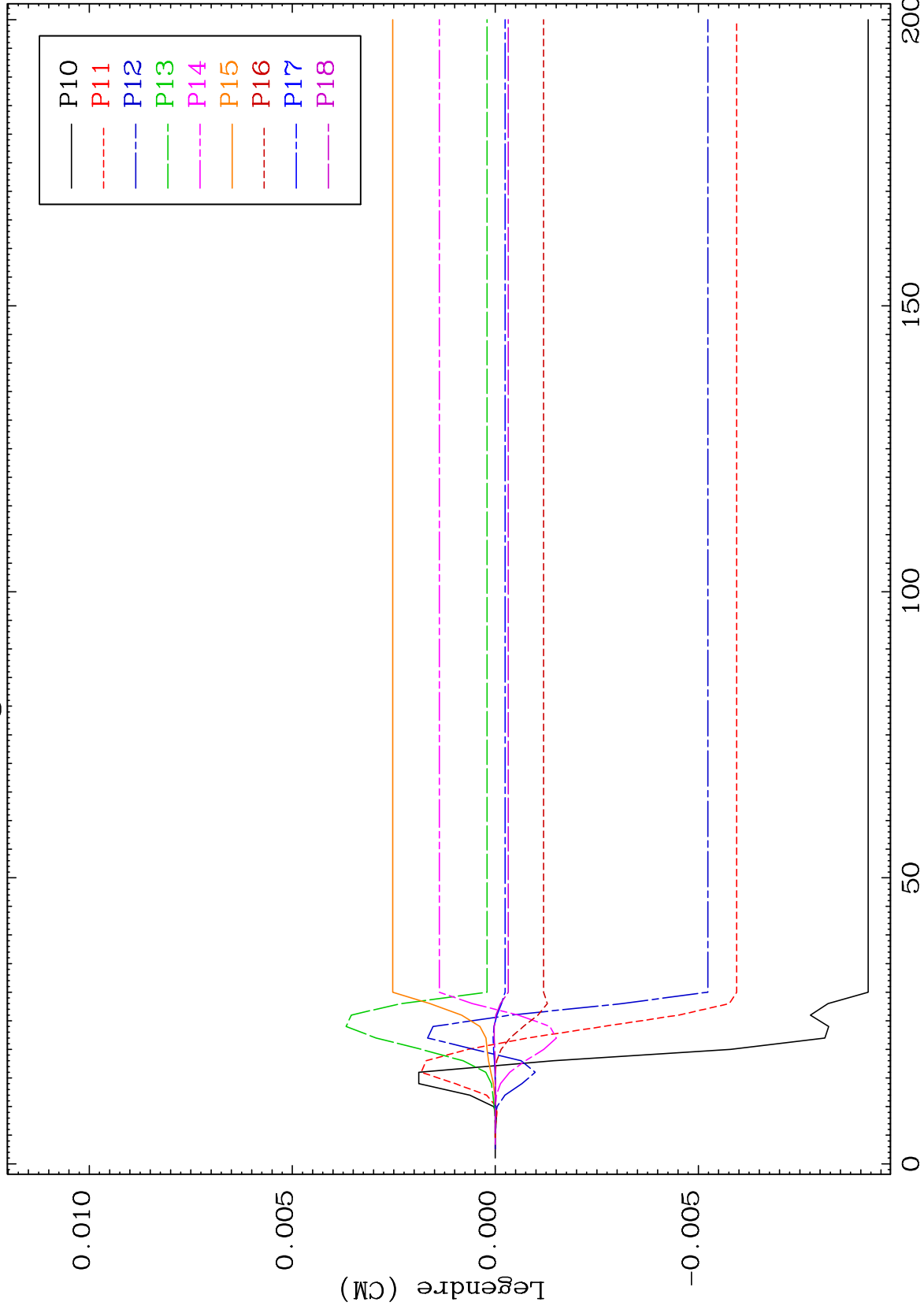
Incident Energy (MeV)

53

MAT 5731

MT= 61 (n,n') Level
Legendre Coefficients

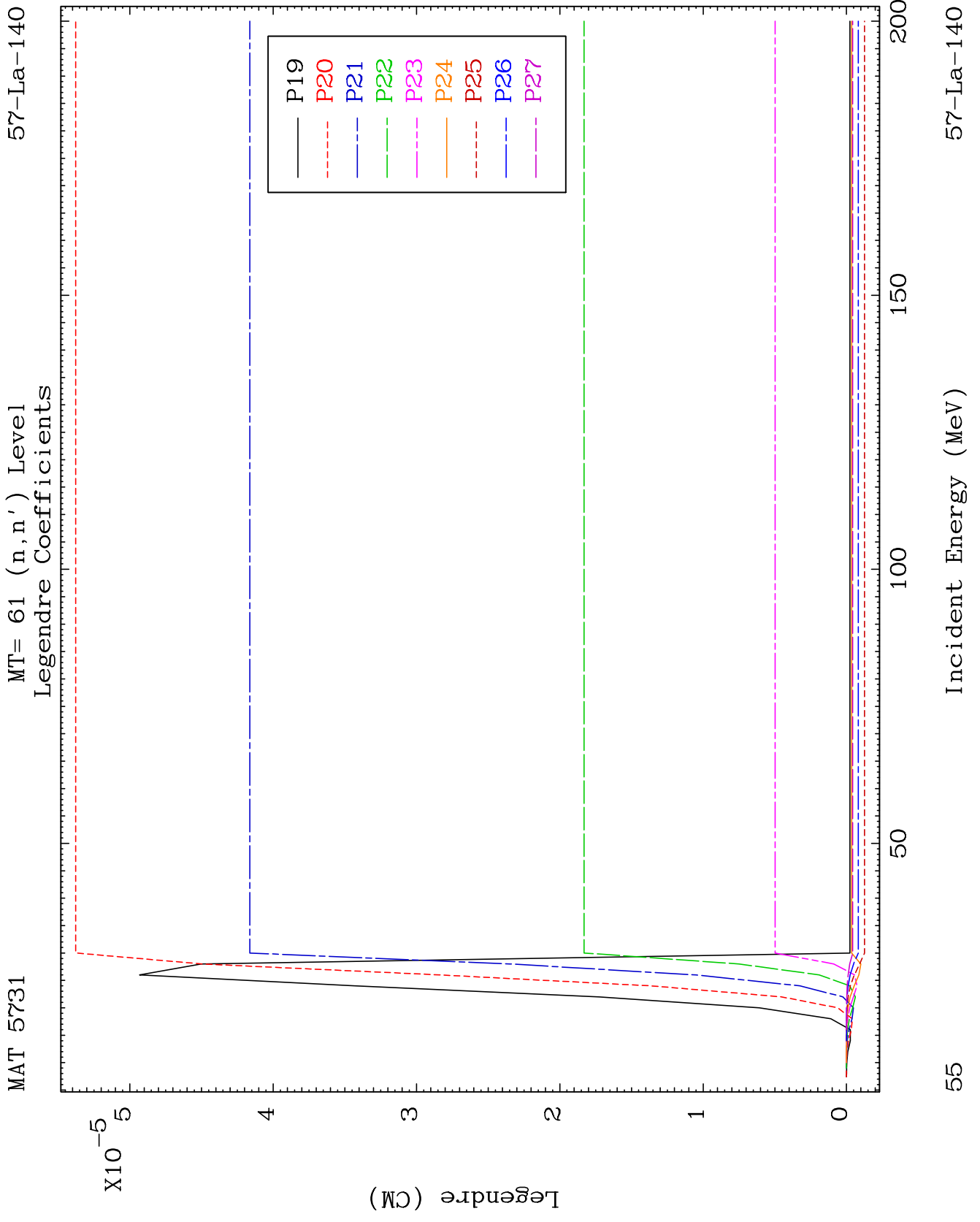
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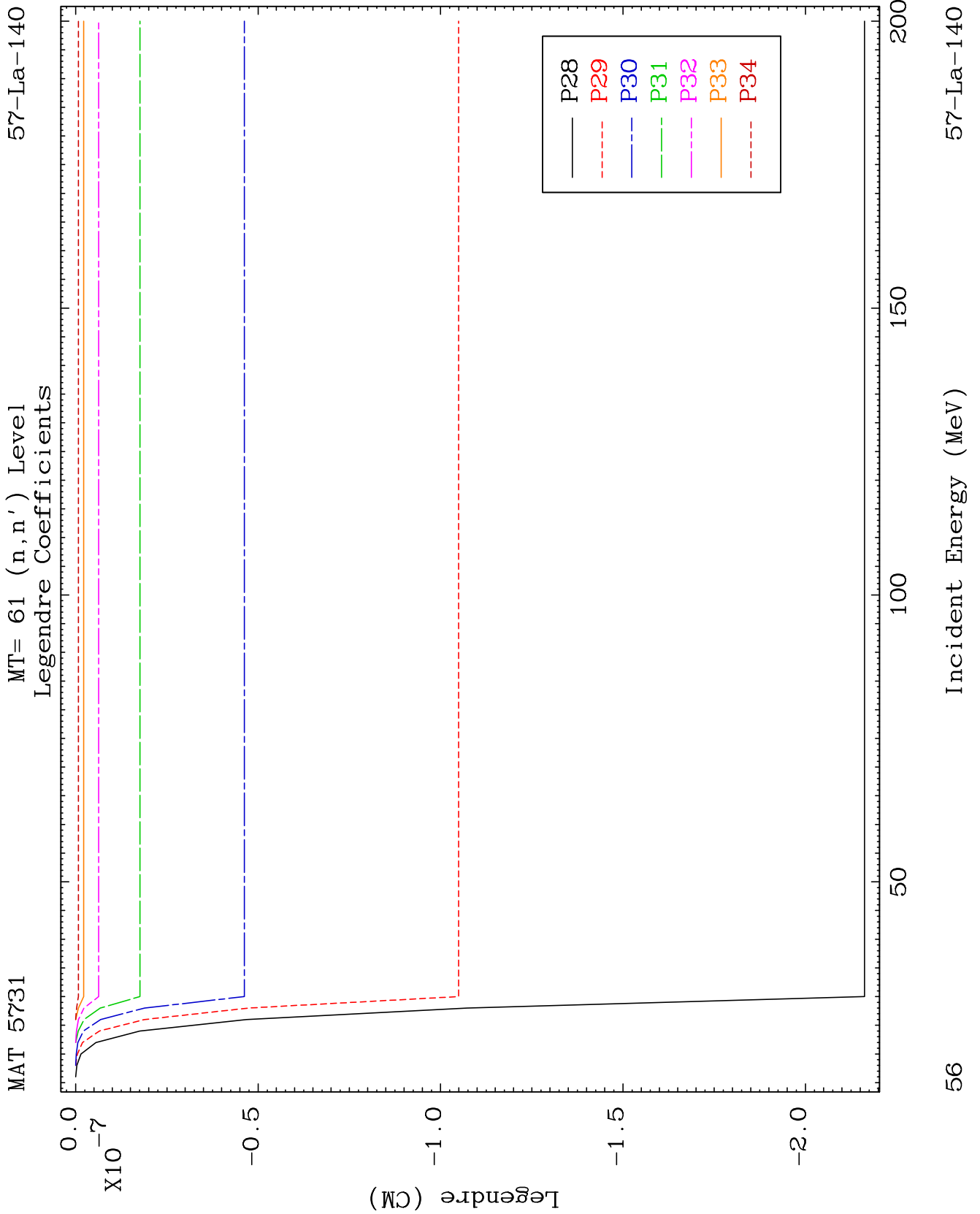


54

Incident Energy (MeV)

57-La-140

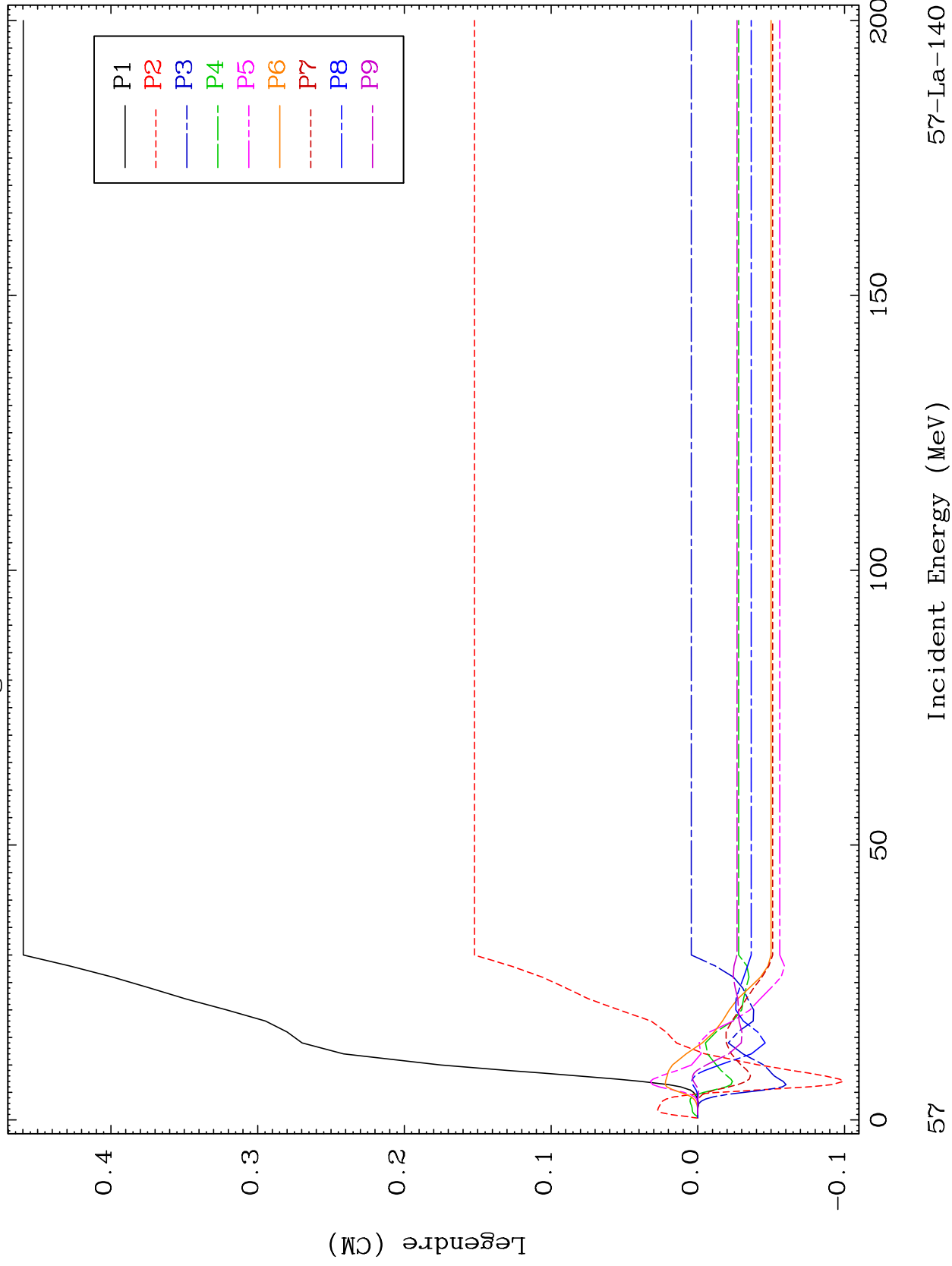




MAT 5731

MT= 62 (n,n') Level
Legendre Coefficients

57-La-140



57-La-140

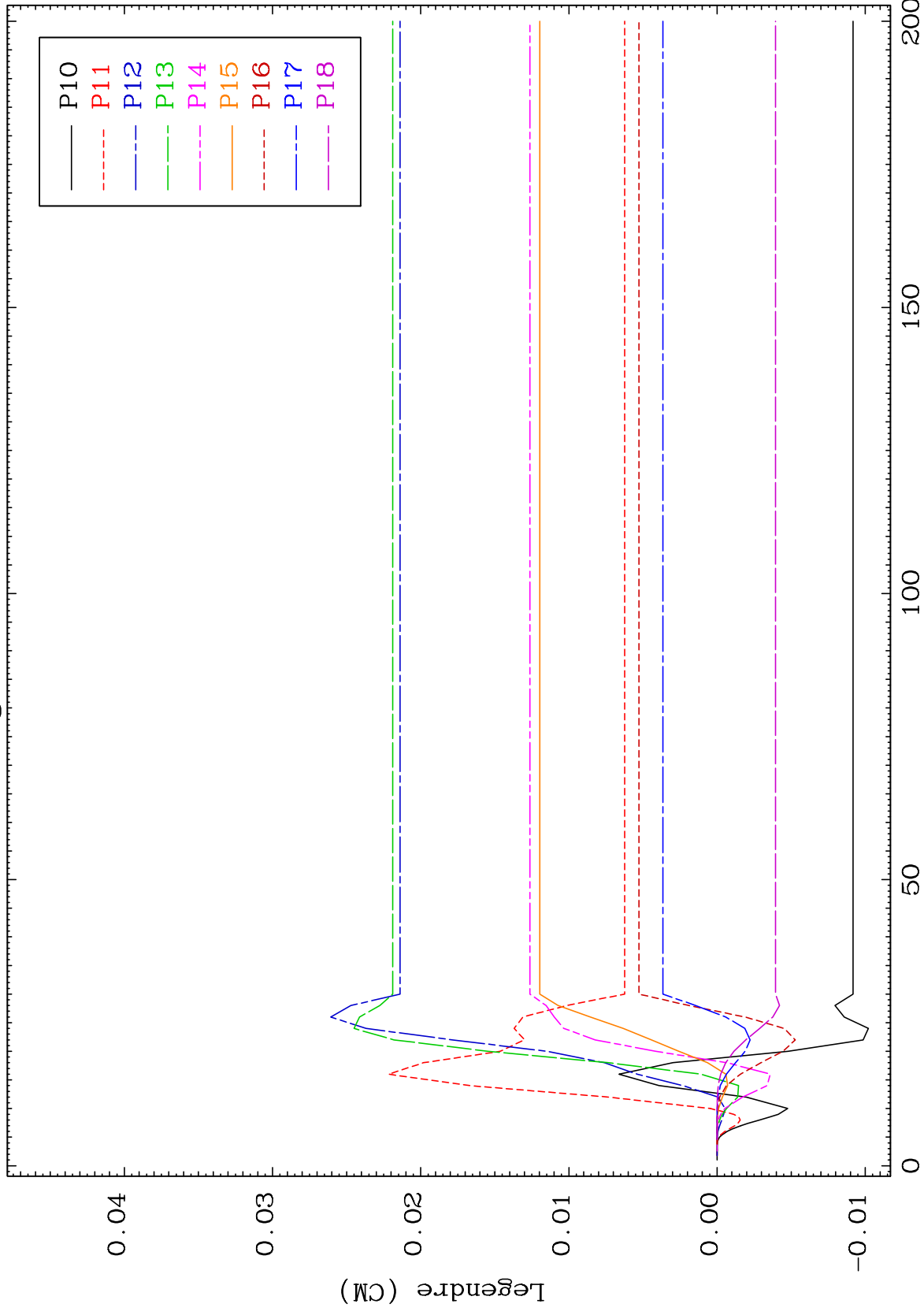
Incident Energy (MeV)

57

MAT 5731

MT= 62 (n,n') Level
Legendre Coefficients

57-La-140



58

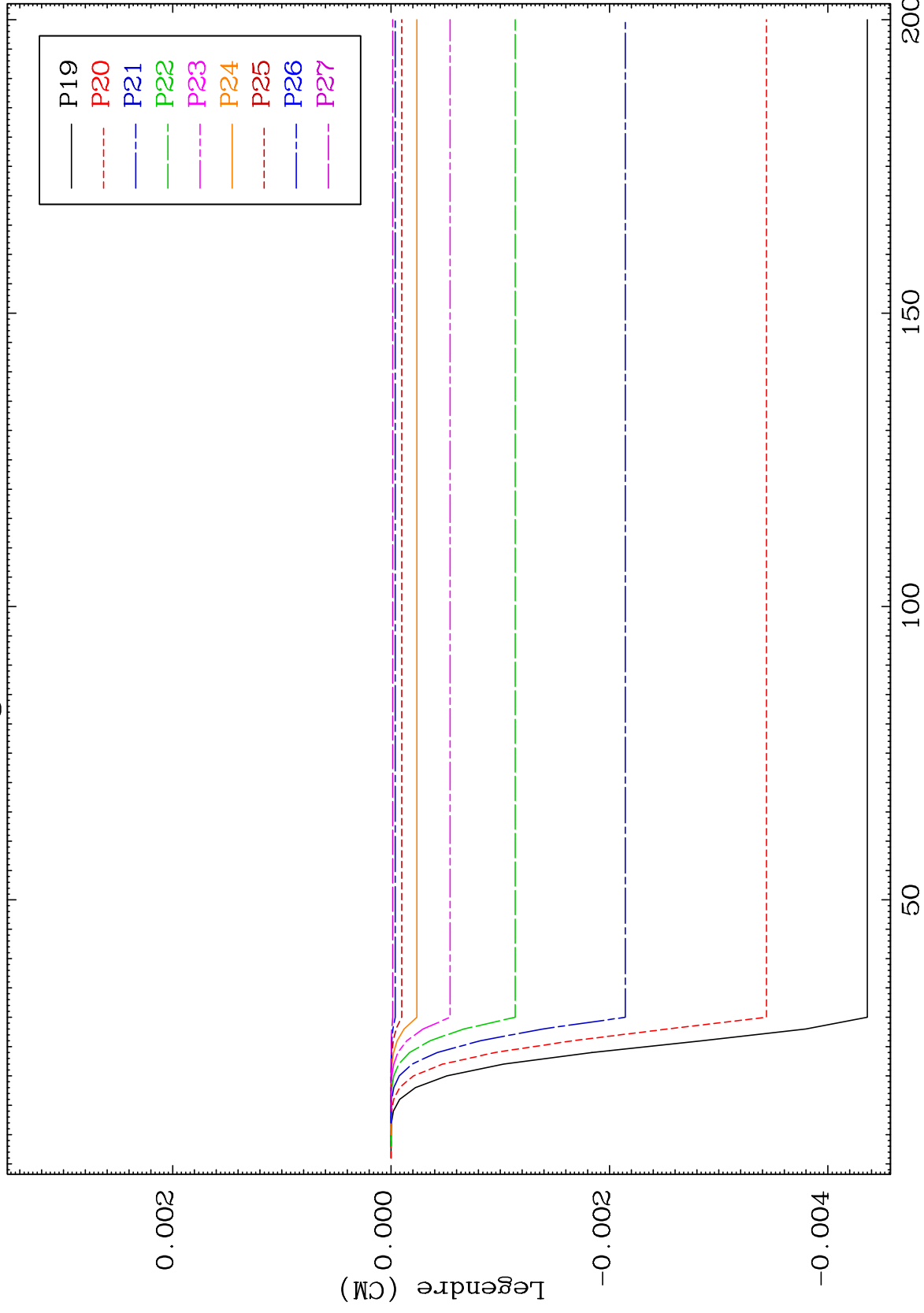
Incident Energy (MeV)

57-La-140

MAT 5731

MT= 62 (n,n') Level
Legendre Coefficients

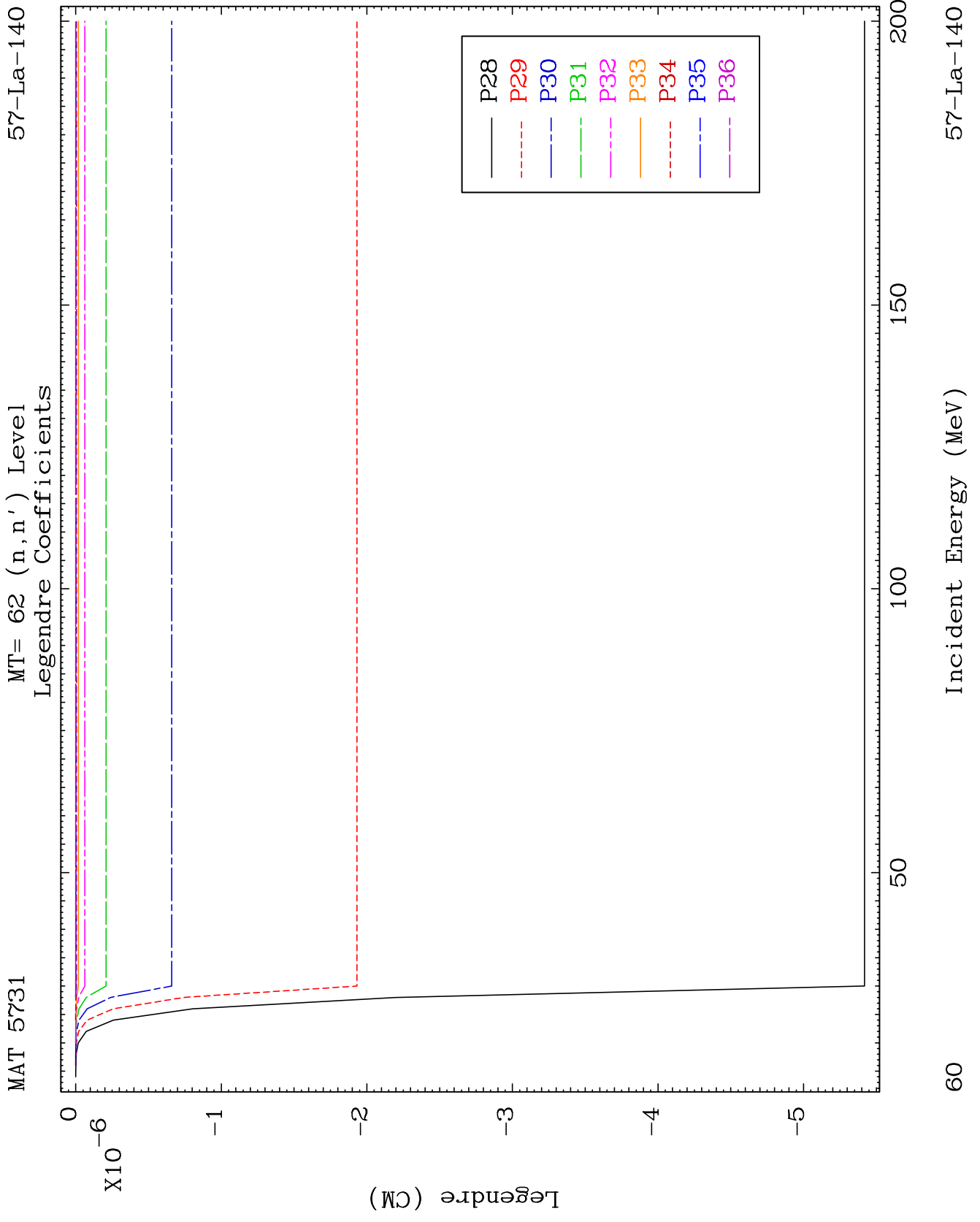
57-La-140

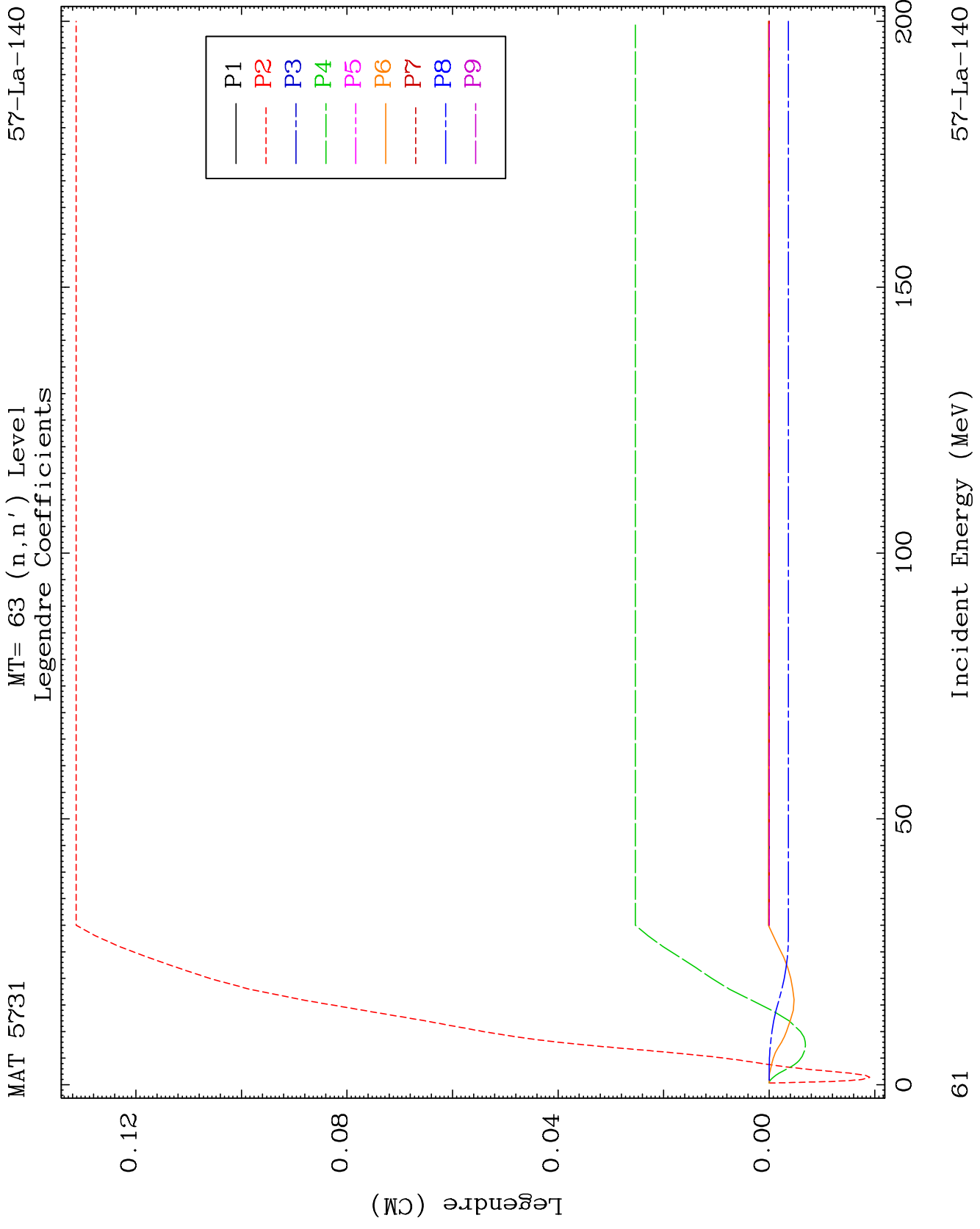


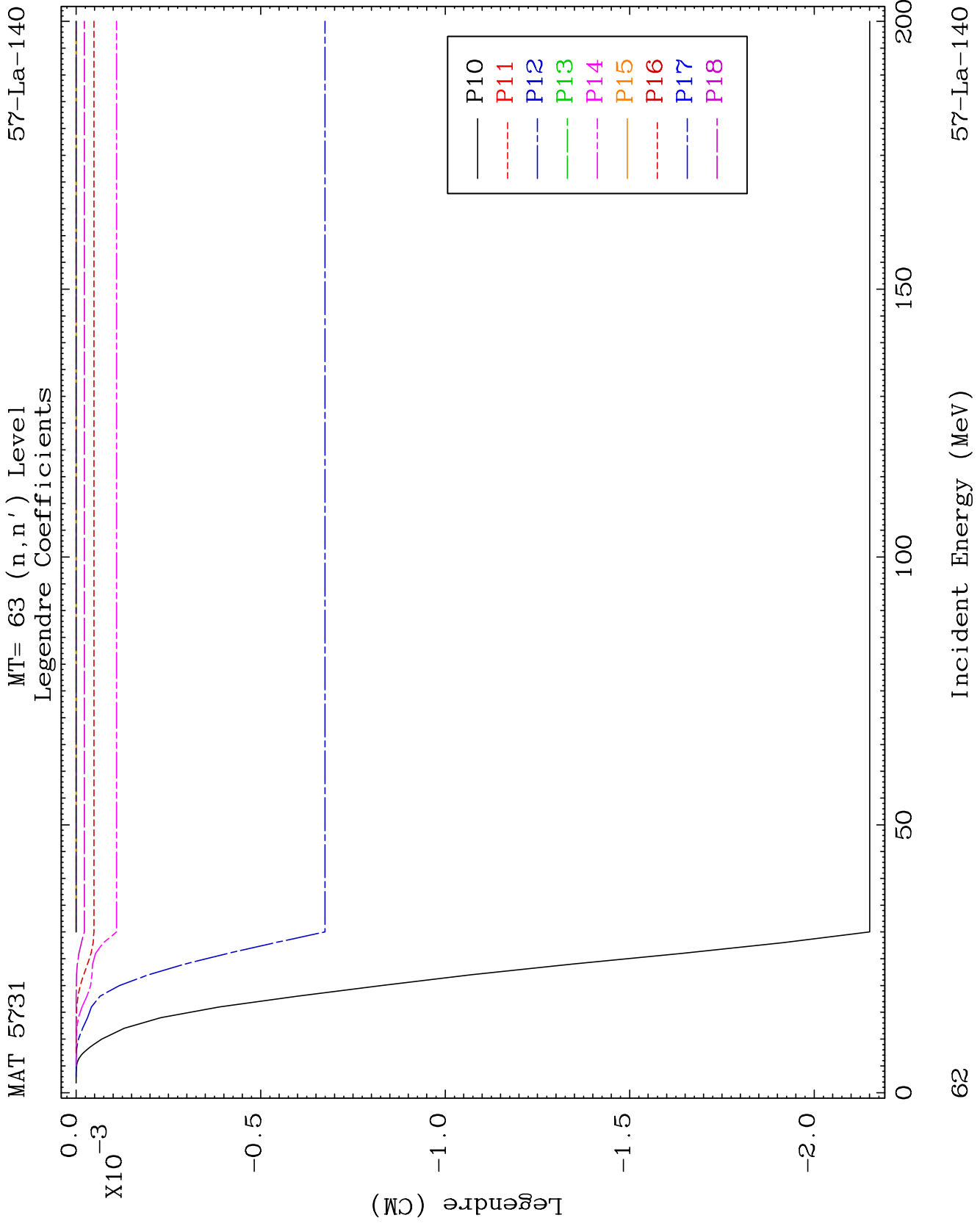
59

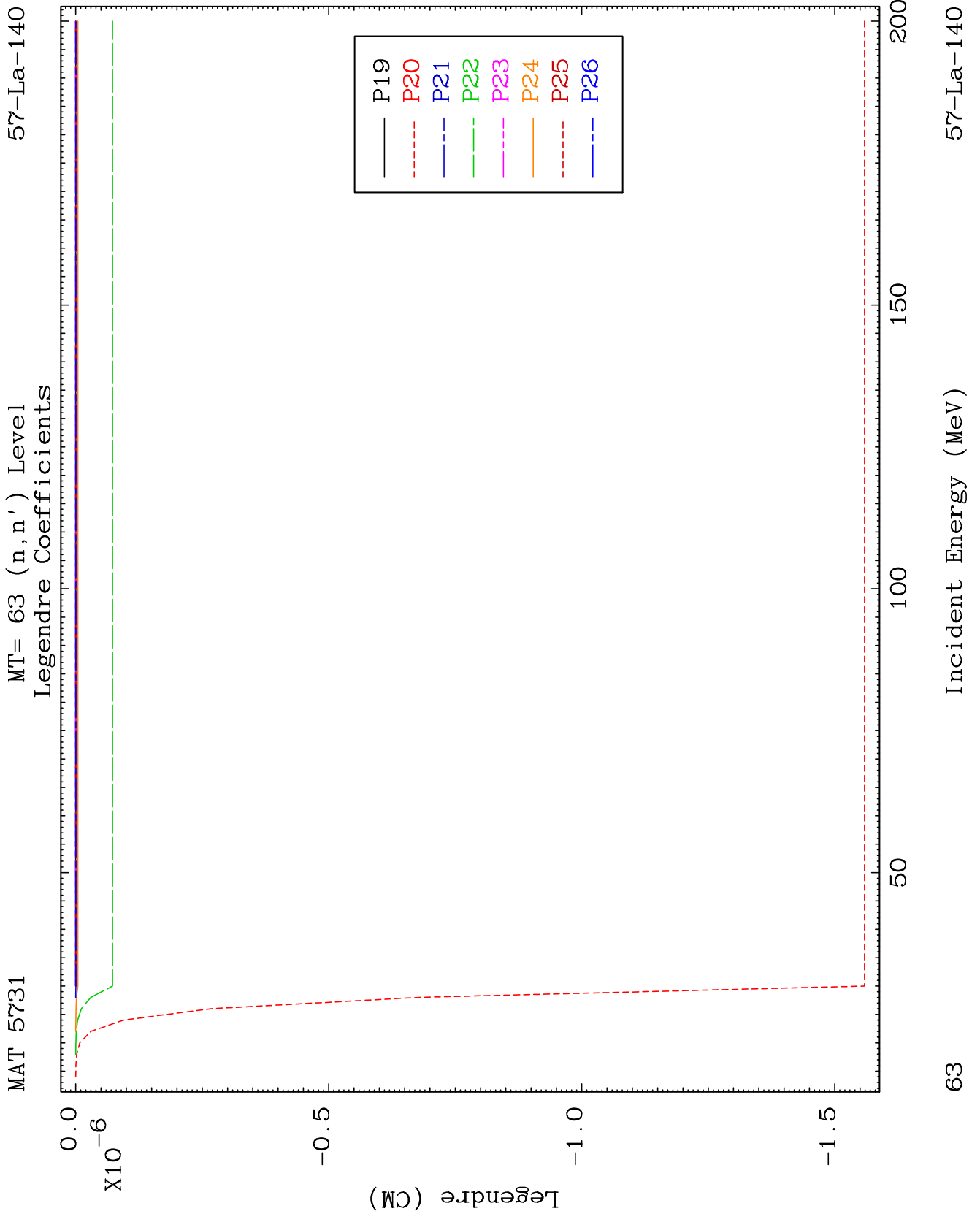
Incident Energy (MeV)

57-La-140





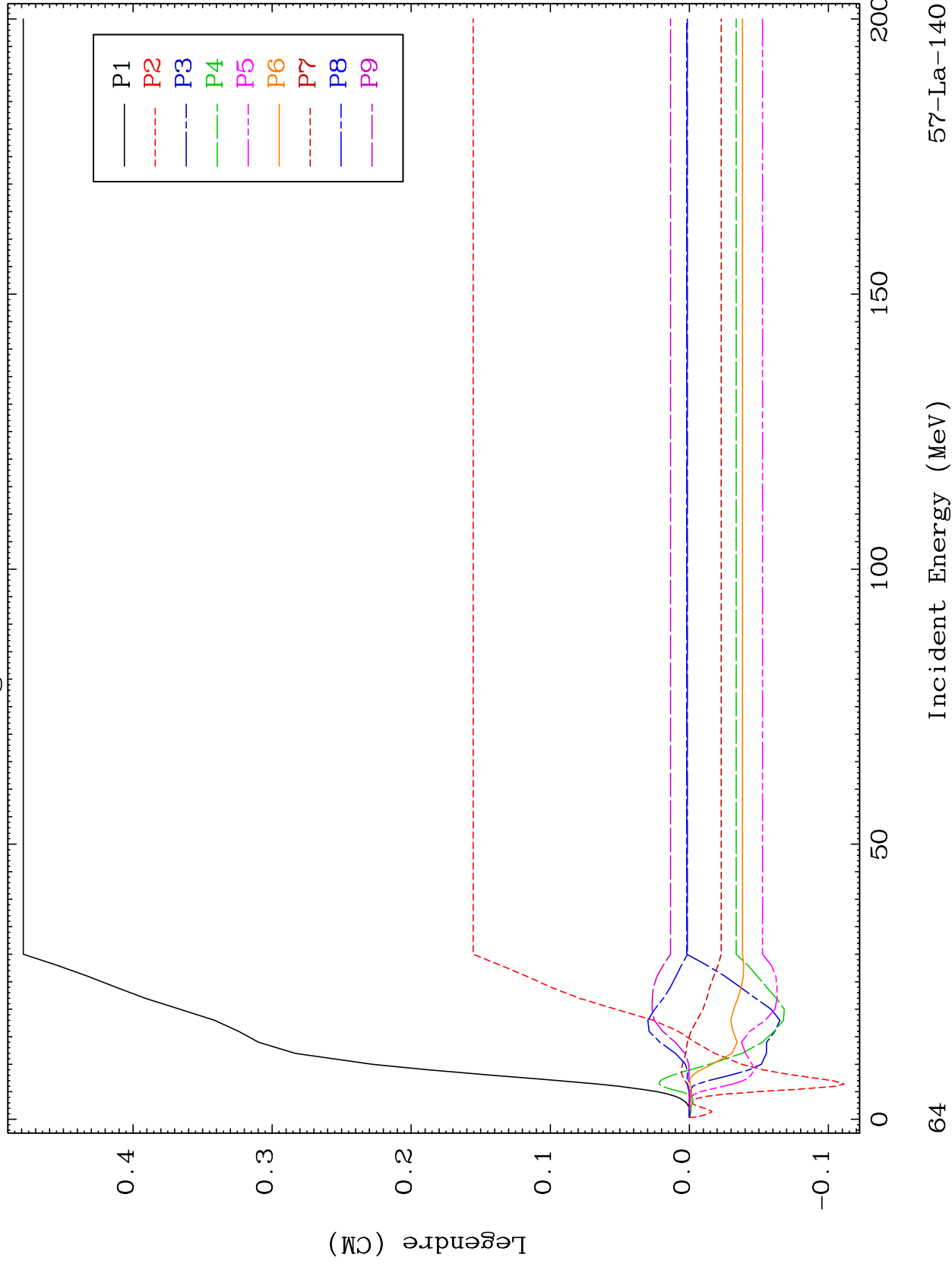




MAT 5731

MT= 64 (n,n') Level
Legendre Coefficients

57-La-140



57-La-140

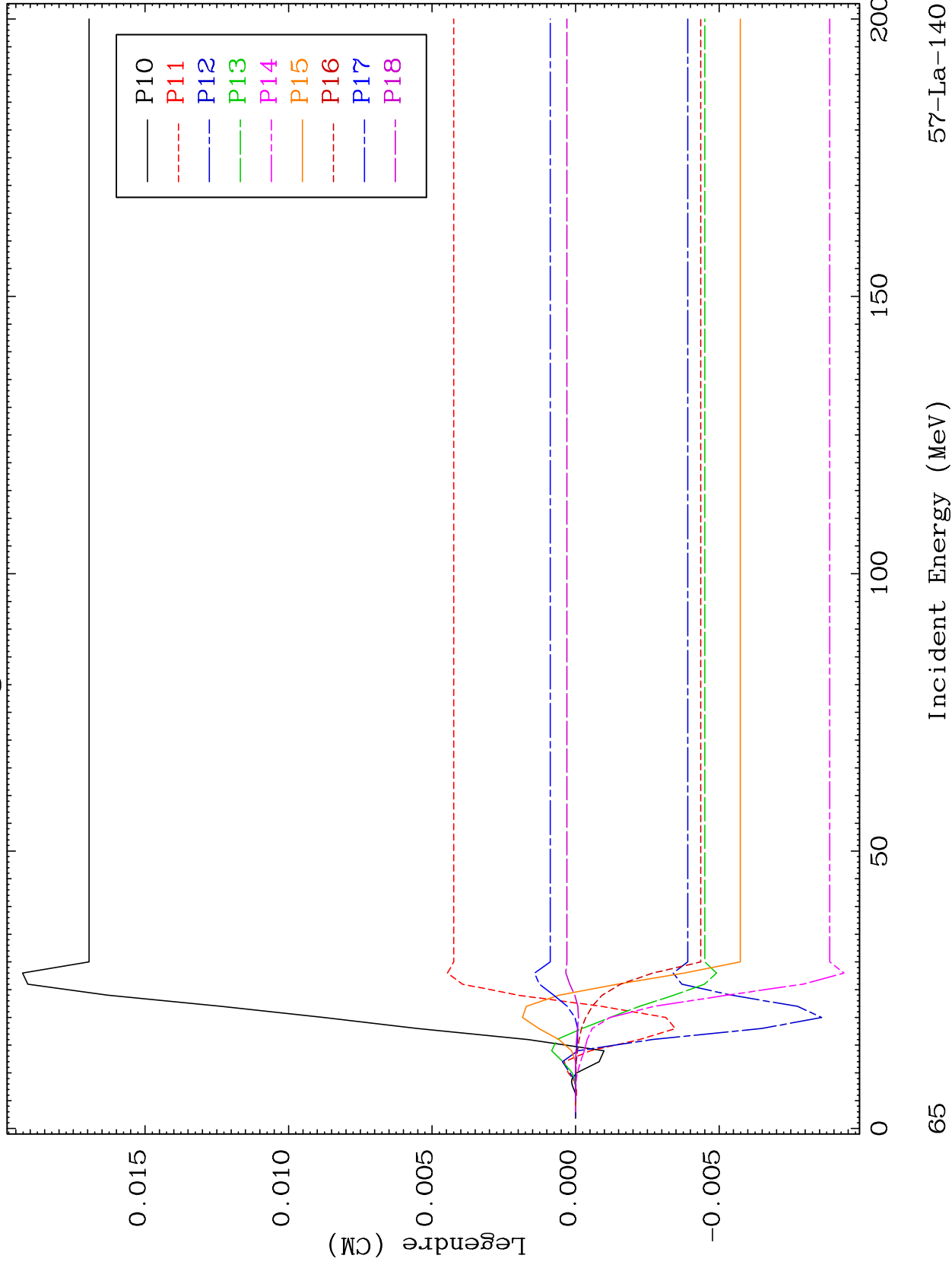
Incident Energy (MeV)

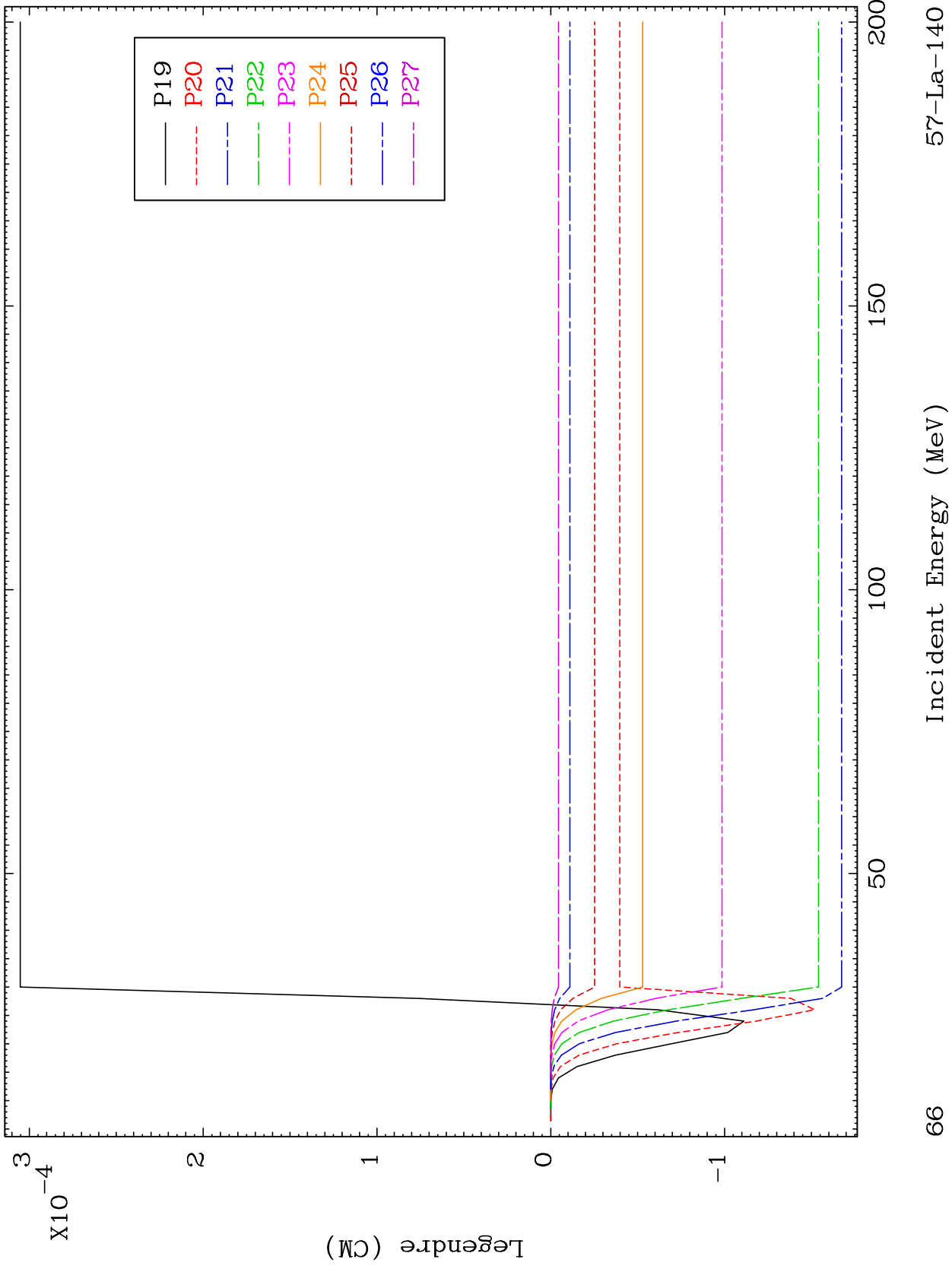
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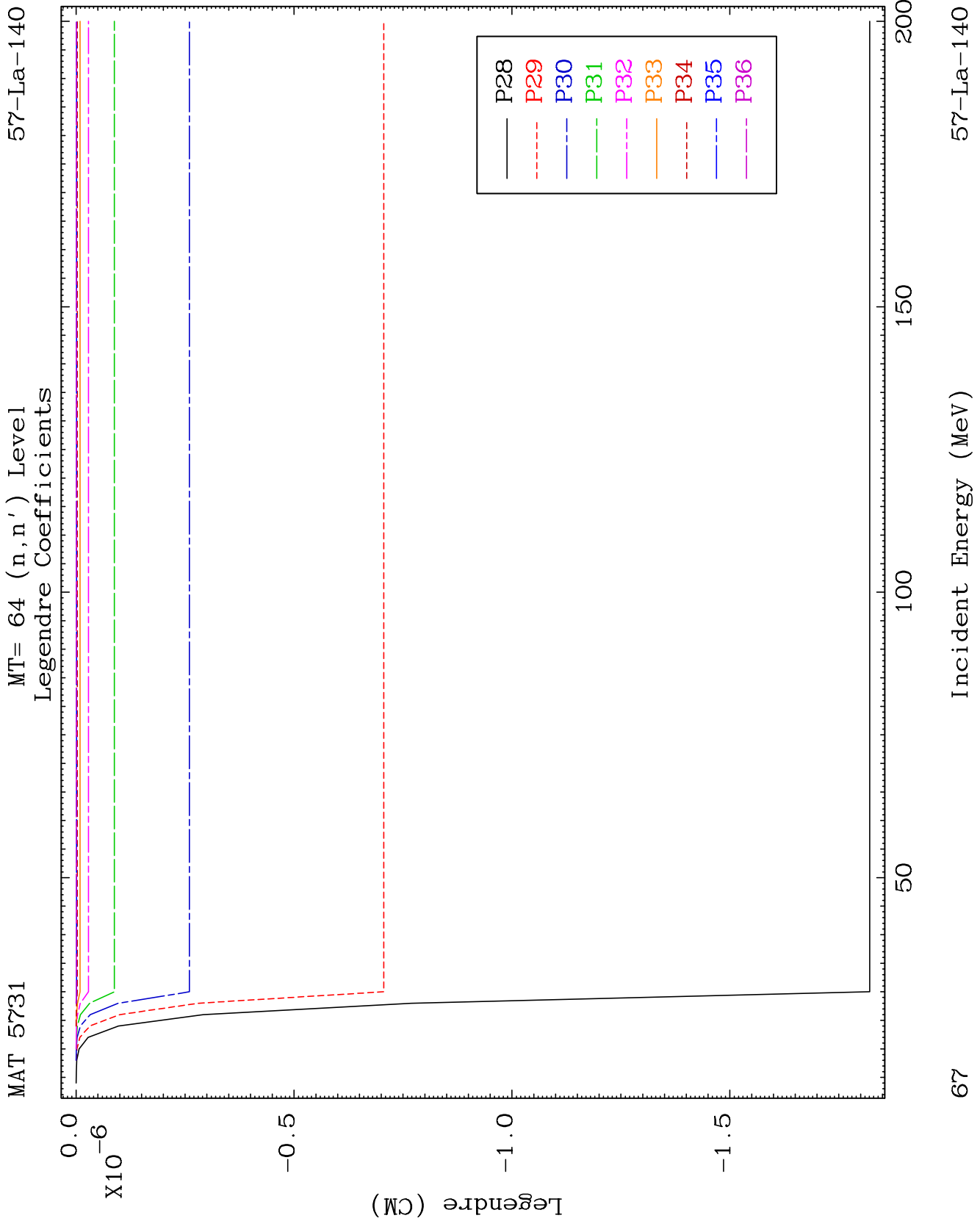
MAT 5731

MT= 64 (n,n') Level
Legendre Coefficients

57-La-140



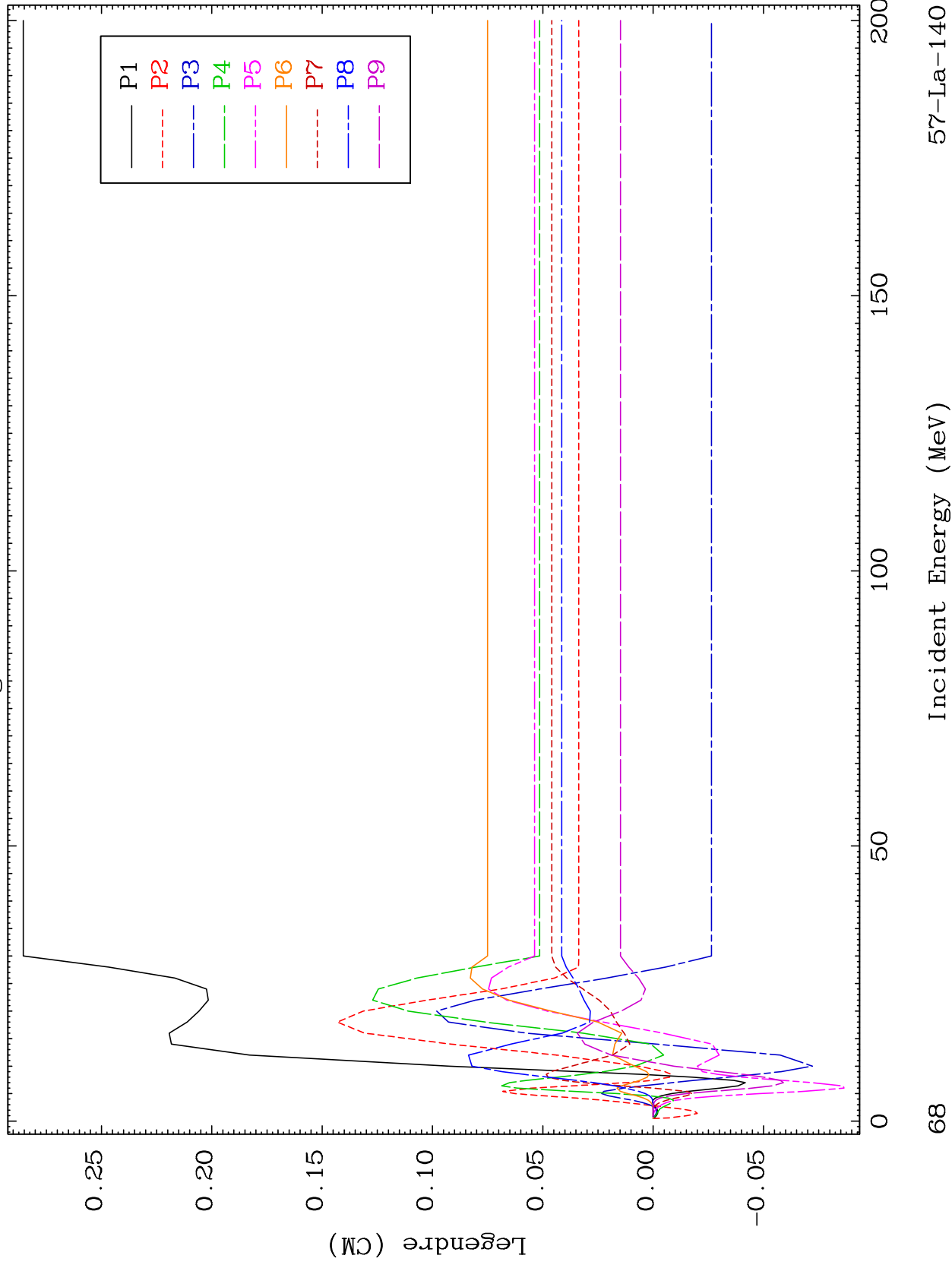




MAT 5731

MT= 65 (n,n') Level
Legendre Coefficients

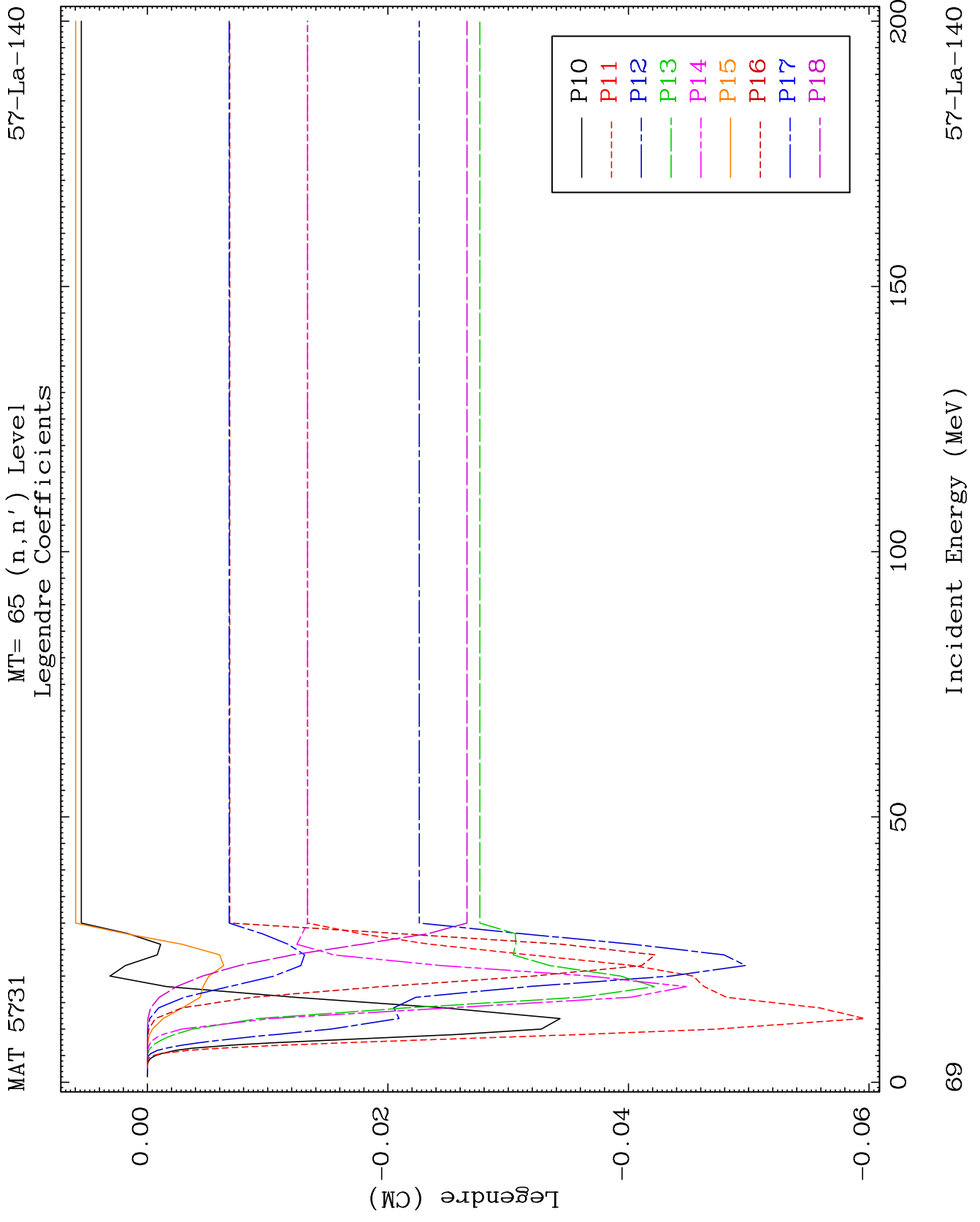
57-La-140

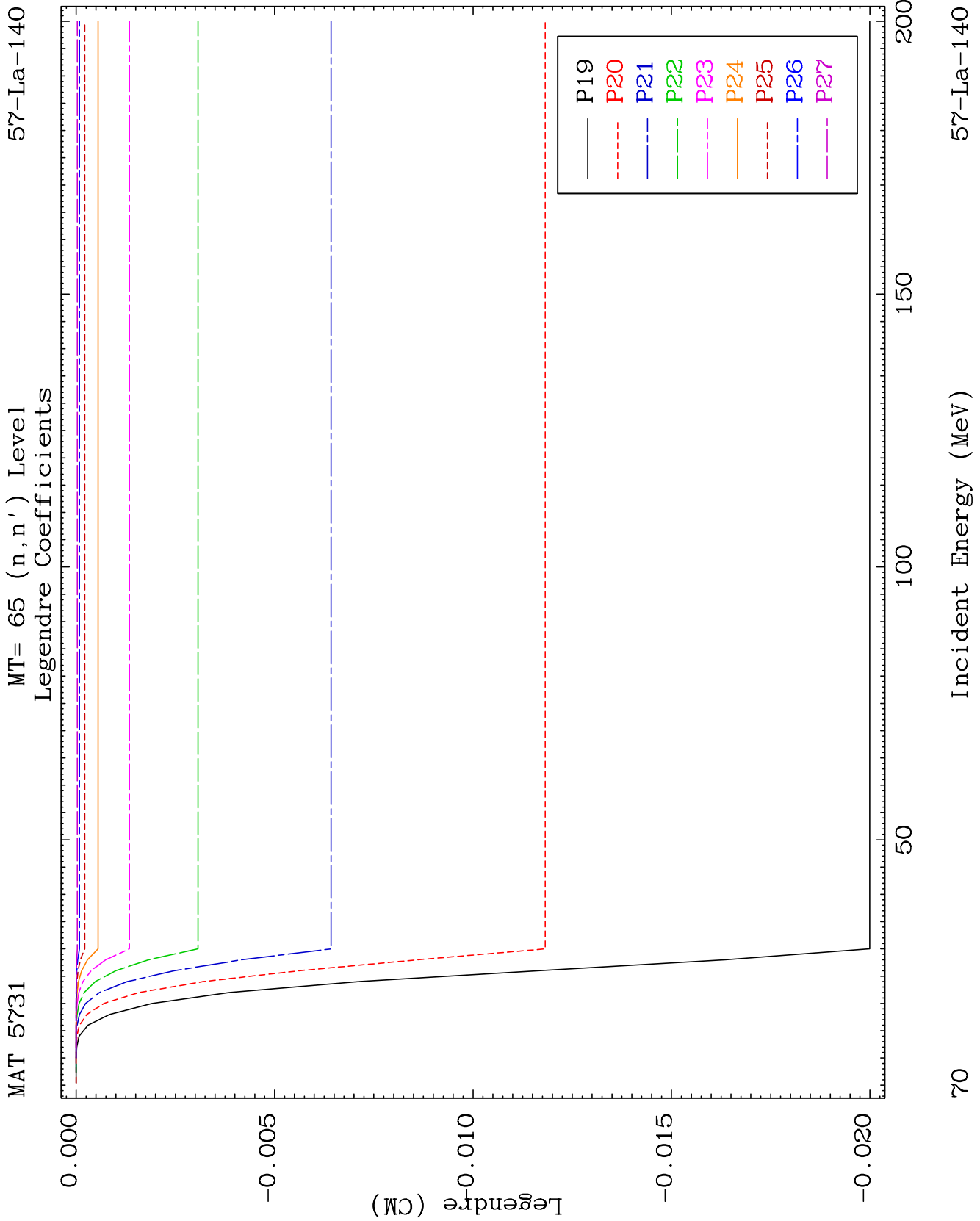


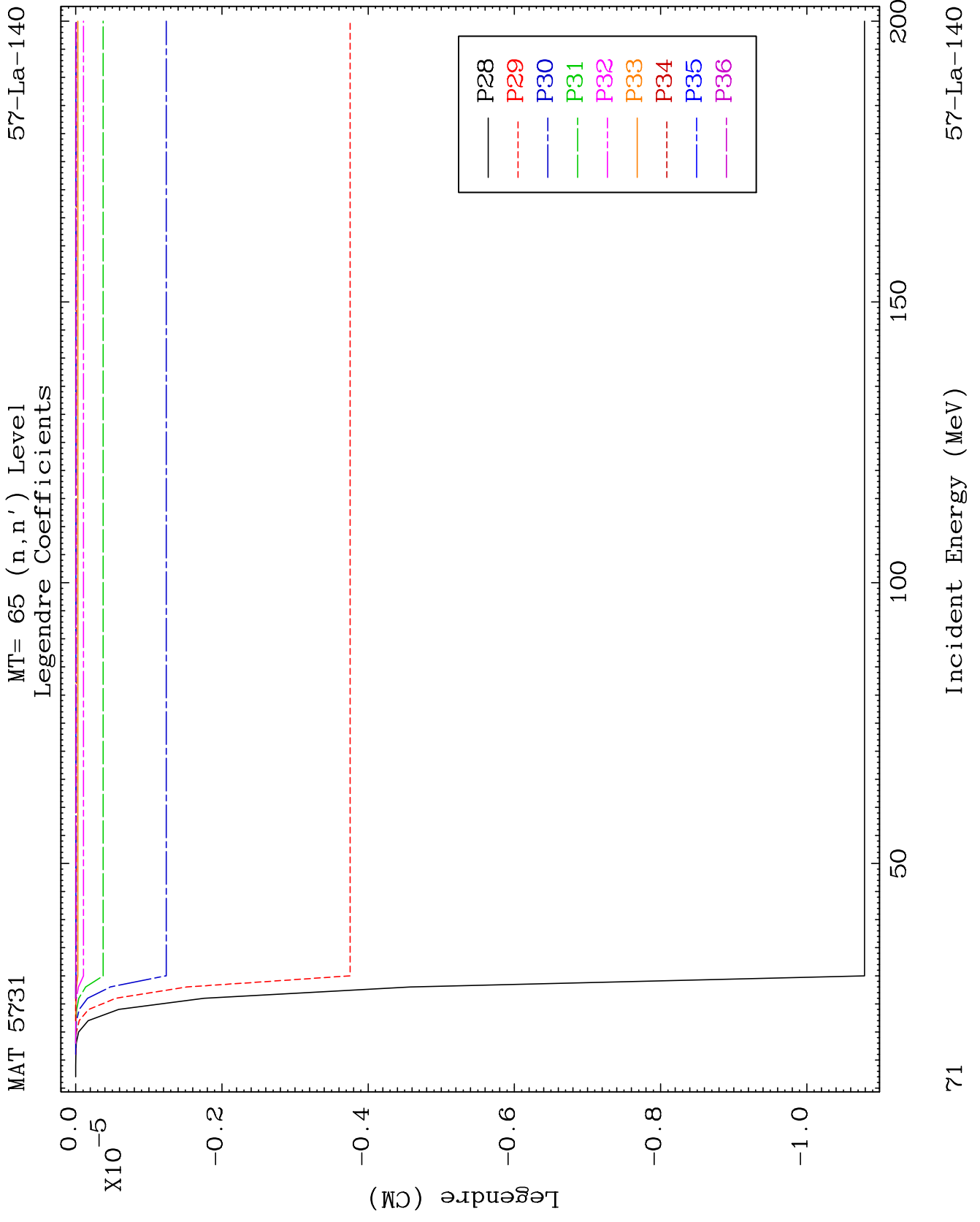
57-La-140

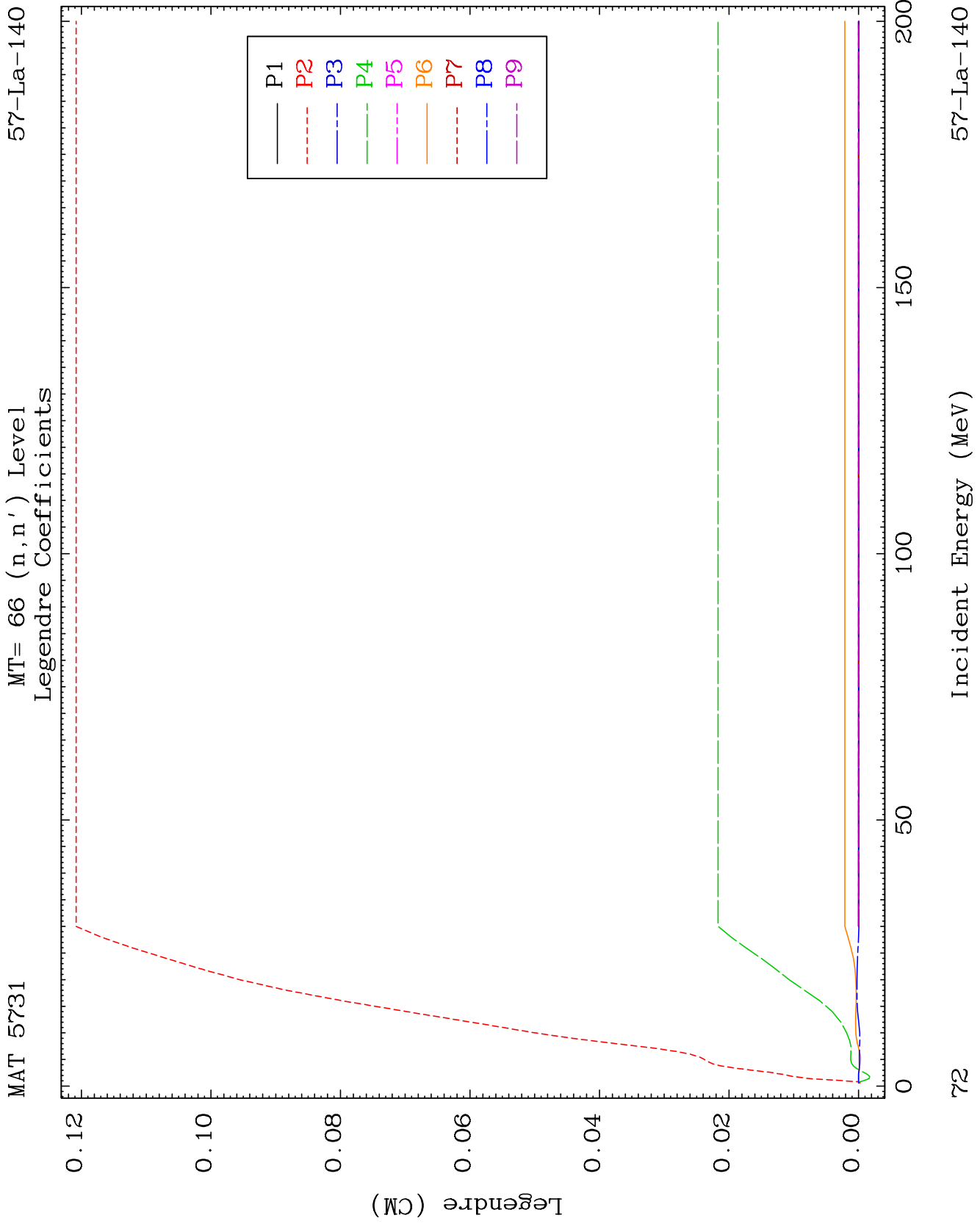
Incident Energy (MeV)

68





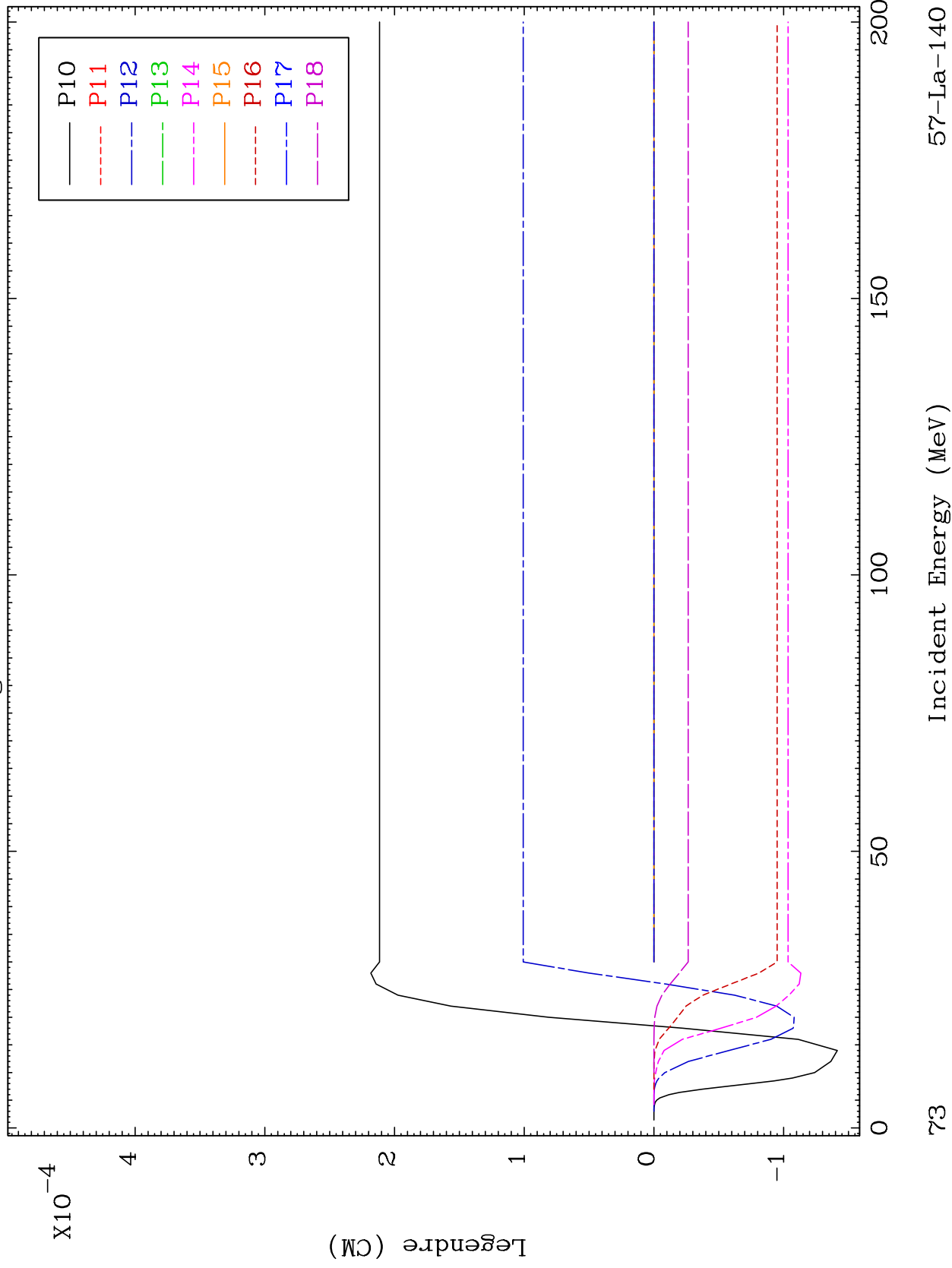


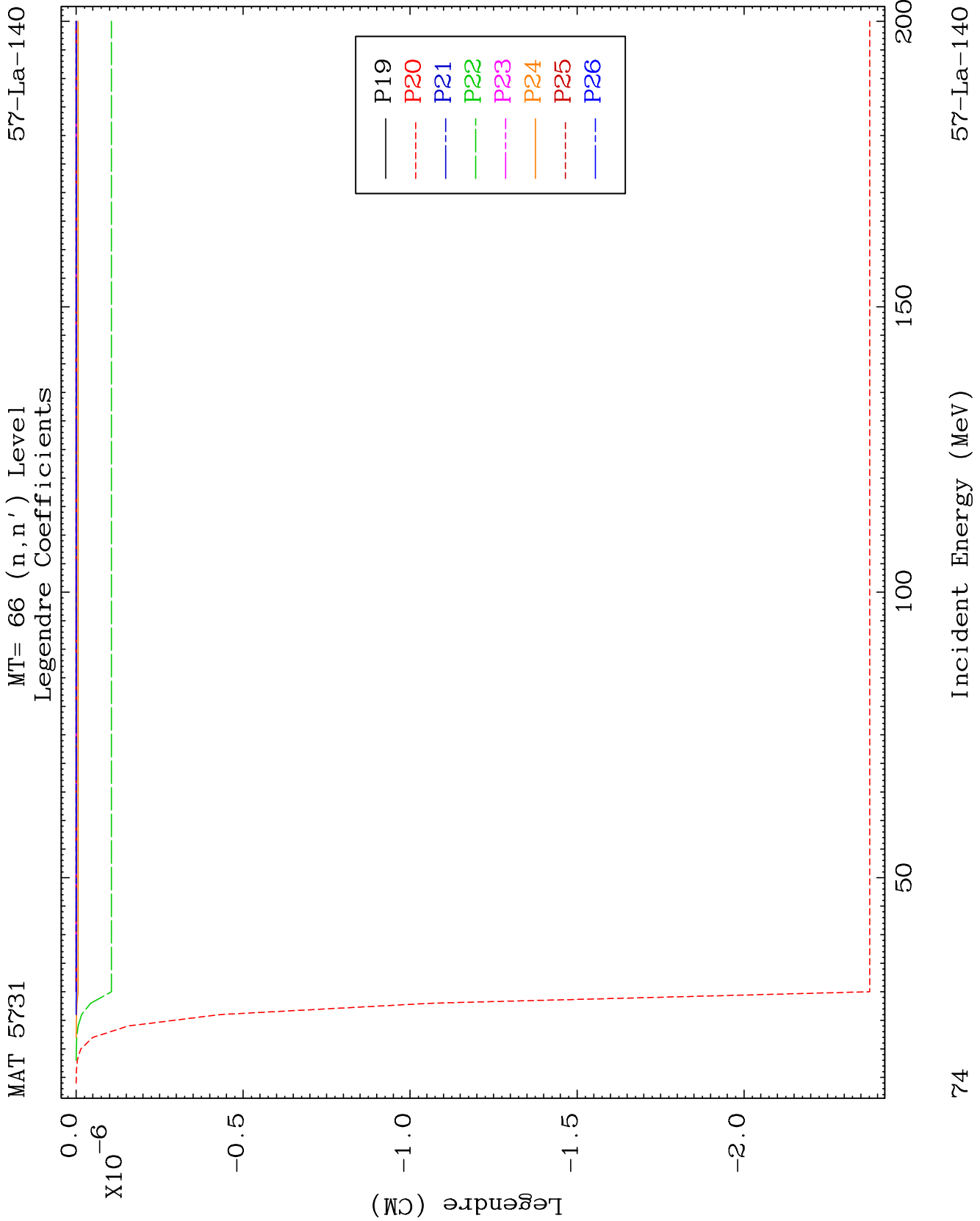


MAT 5731

MT= 66 (n,n') Level
Legendre Coefficients

57-La-140

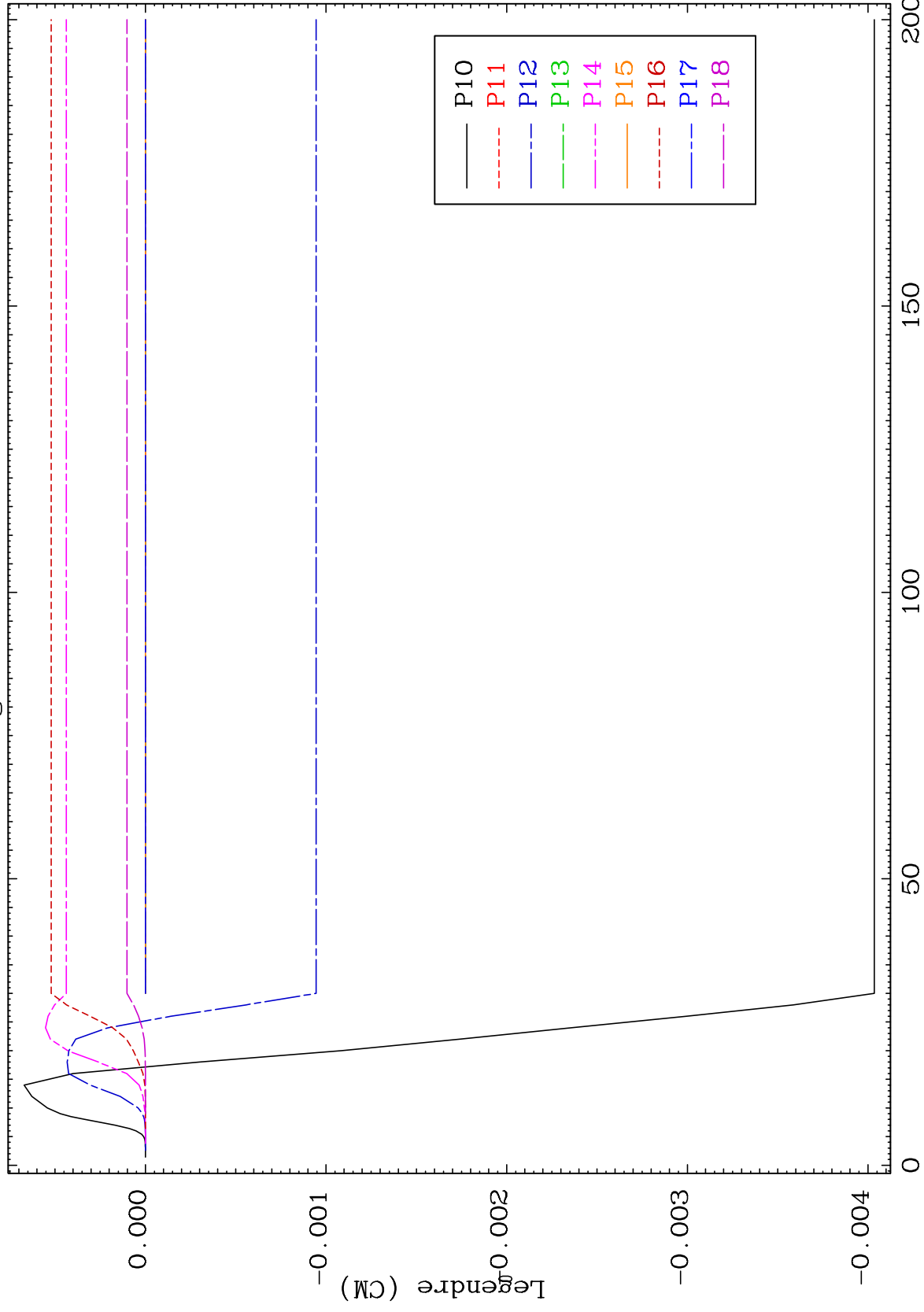




MAT 5731

57-La-140

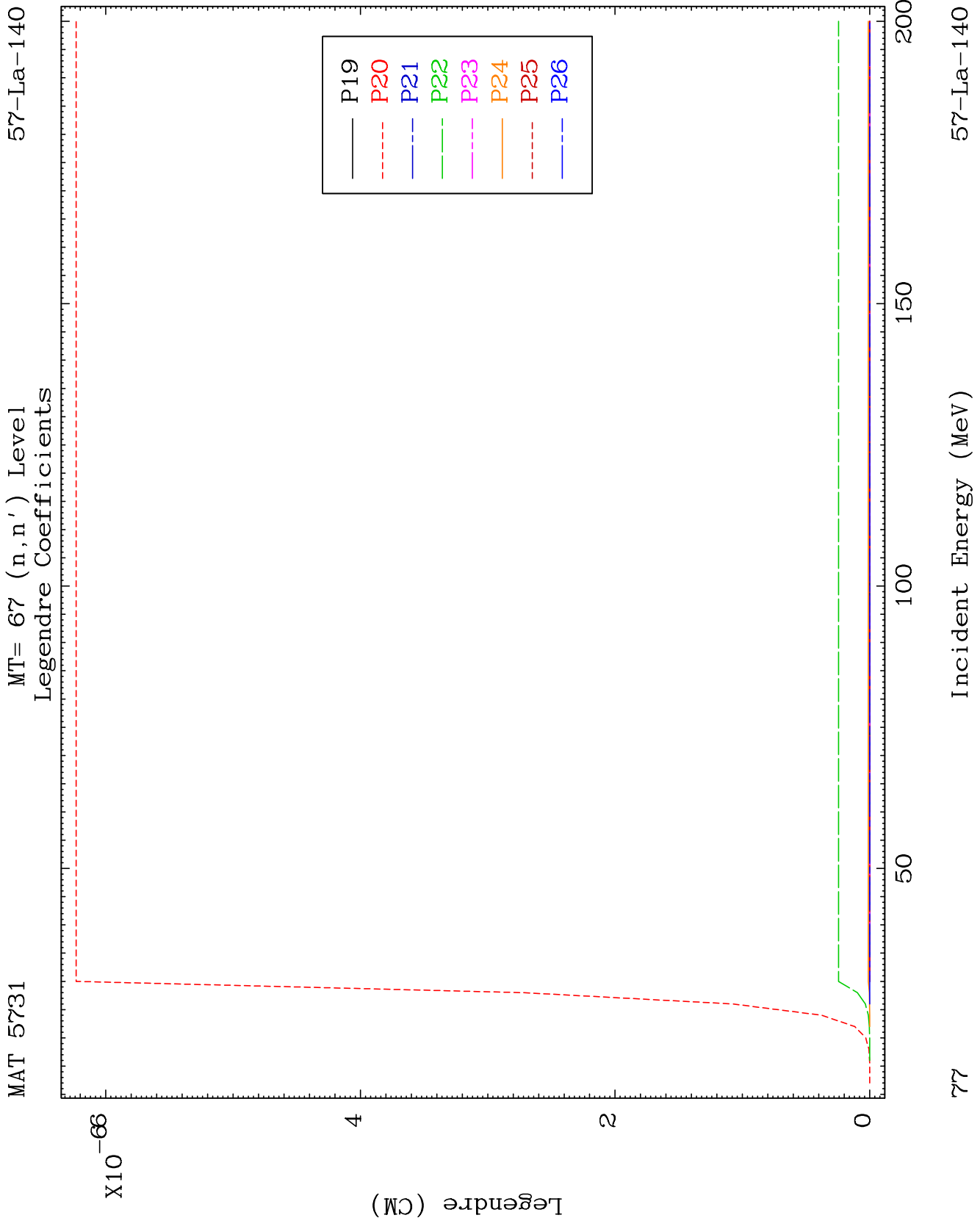
MT= 67 (n,n') Level
Legendre Coefficients

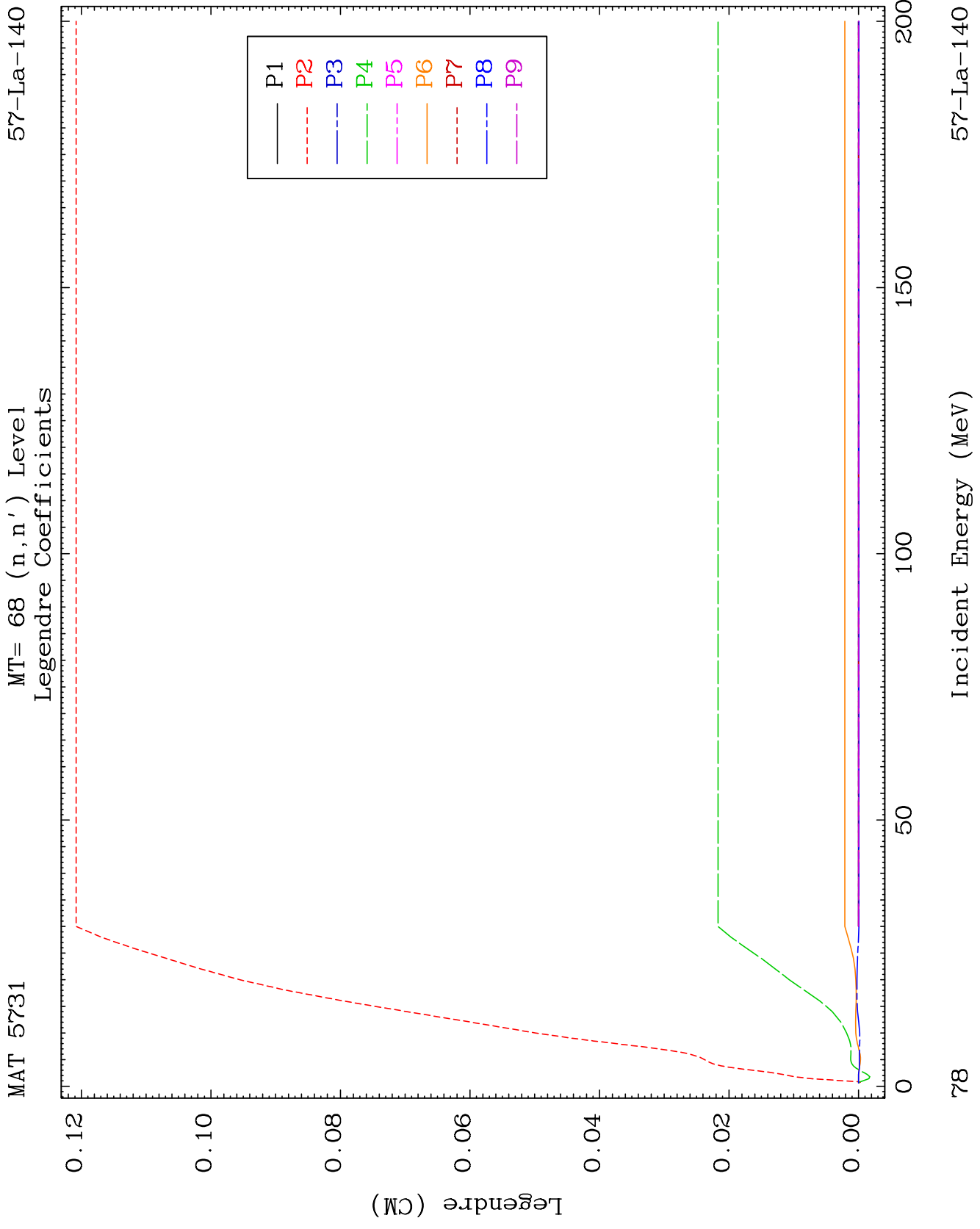


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Incident Energy (MeV)

57-La-140

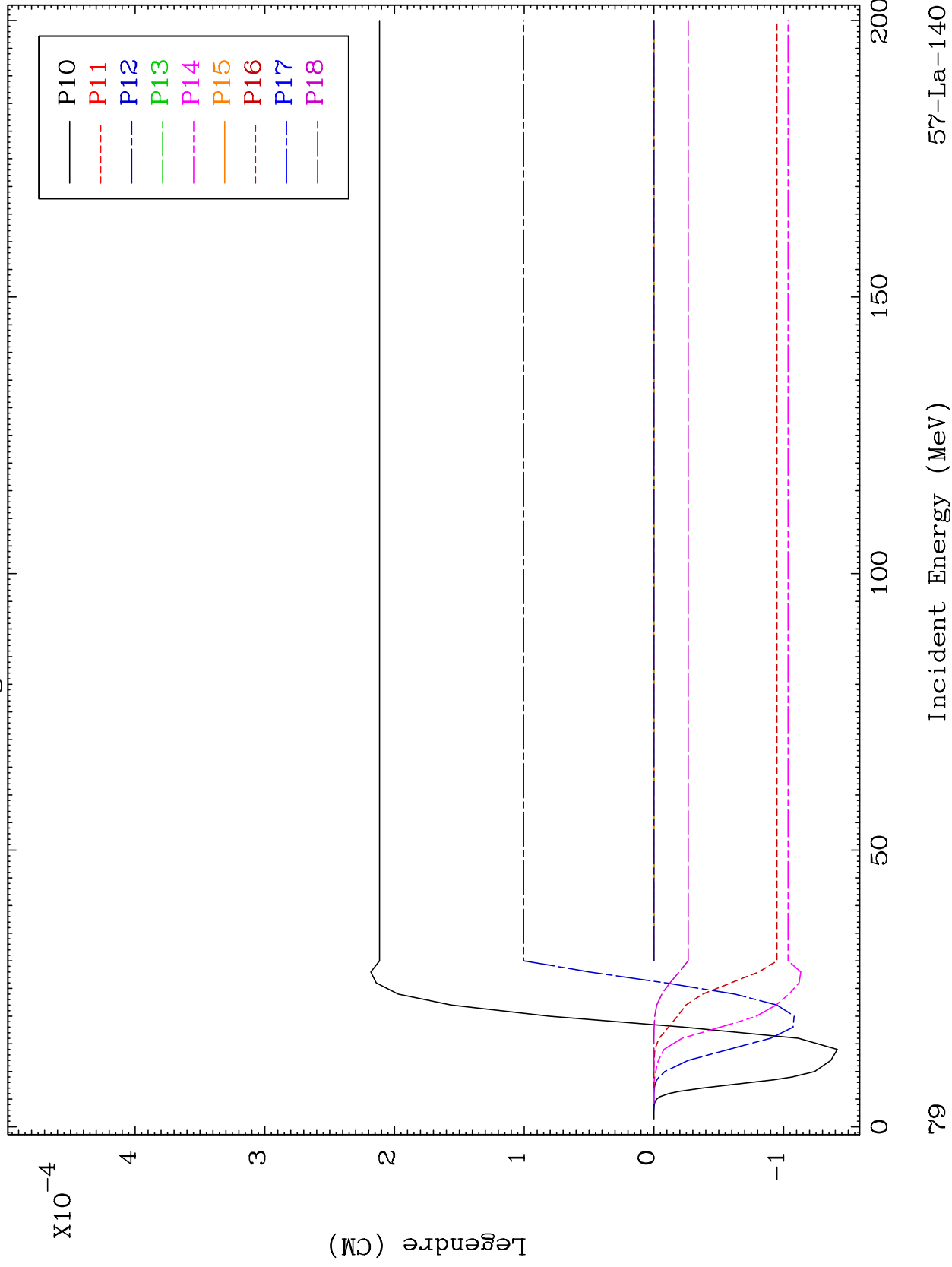


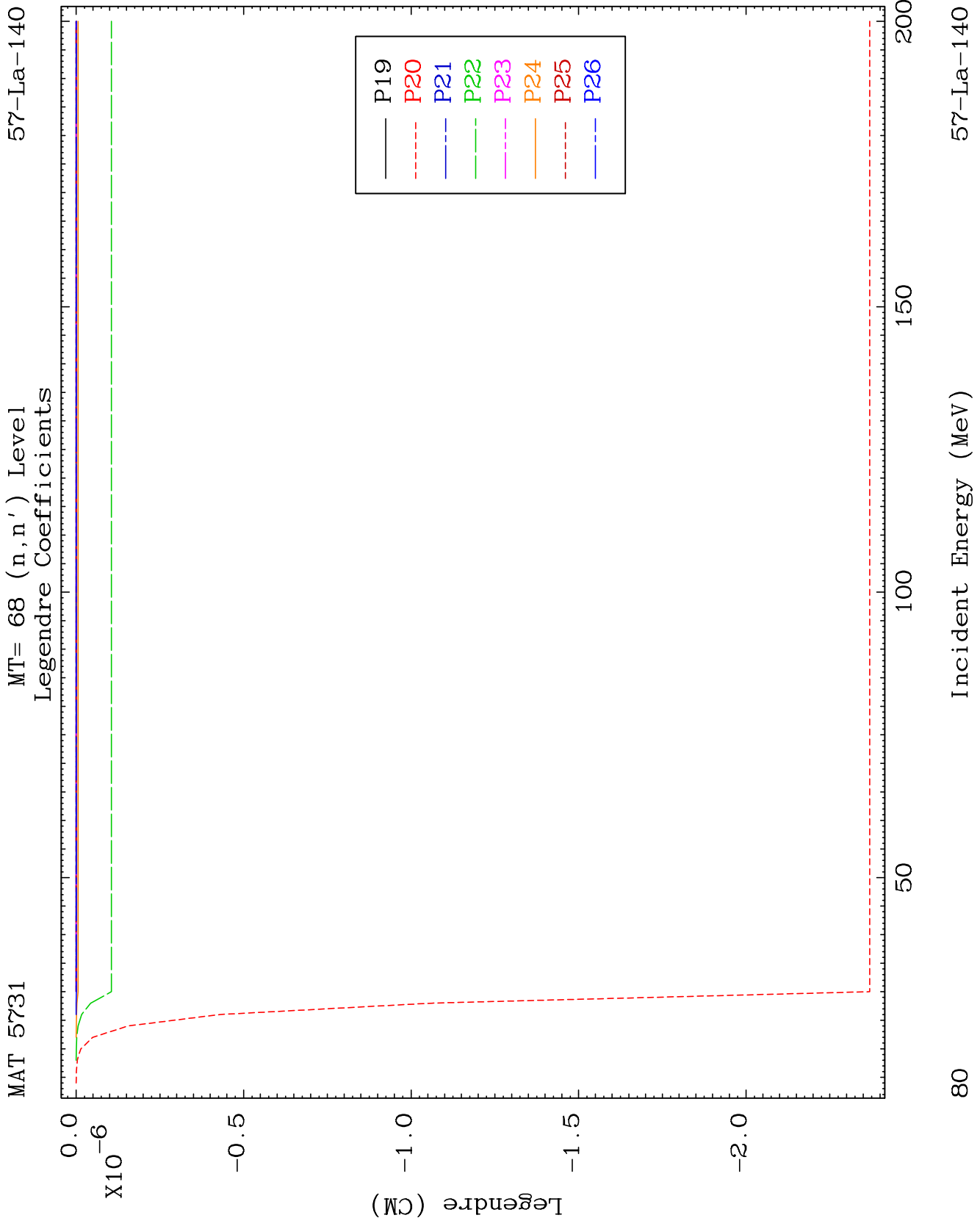


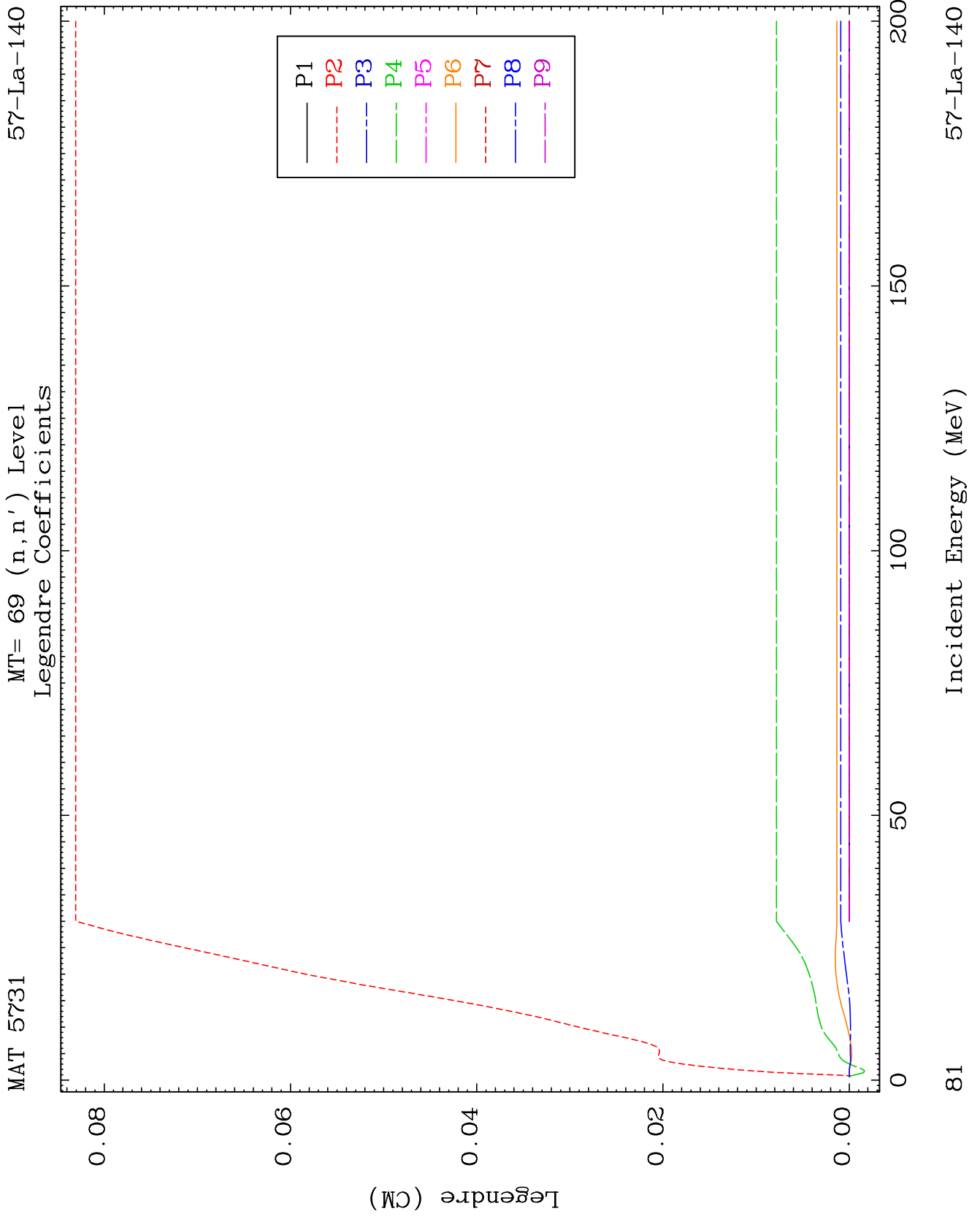
MAT 5731

MT= 68 (n,n') Level
Legendre Coefficients

57-La-140



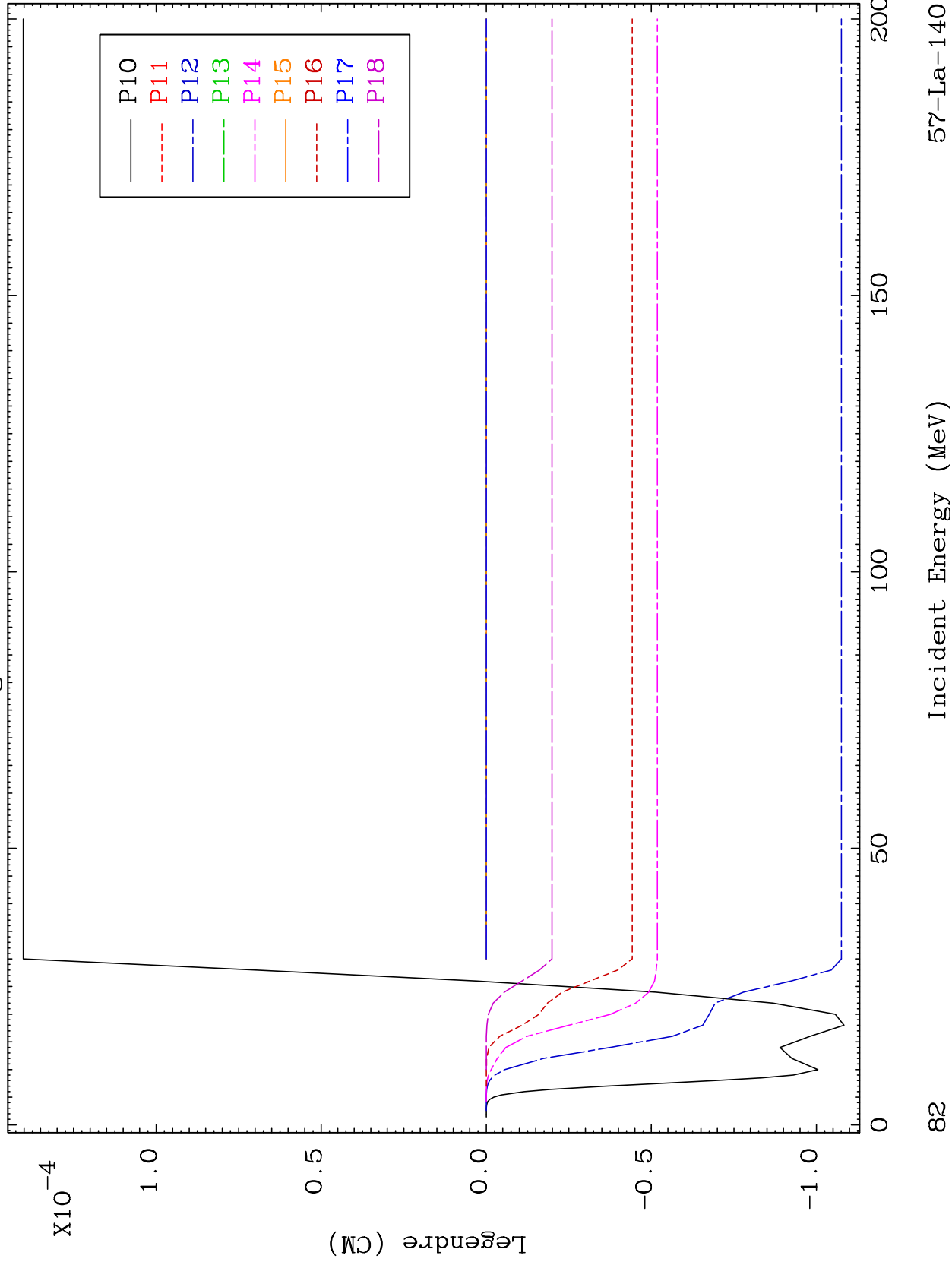




MAT 5731

MT= 69 (n,n') Level
Legendre Coefficients

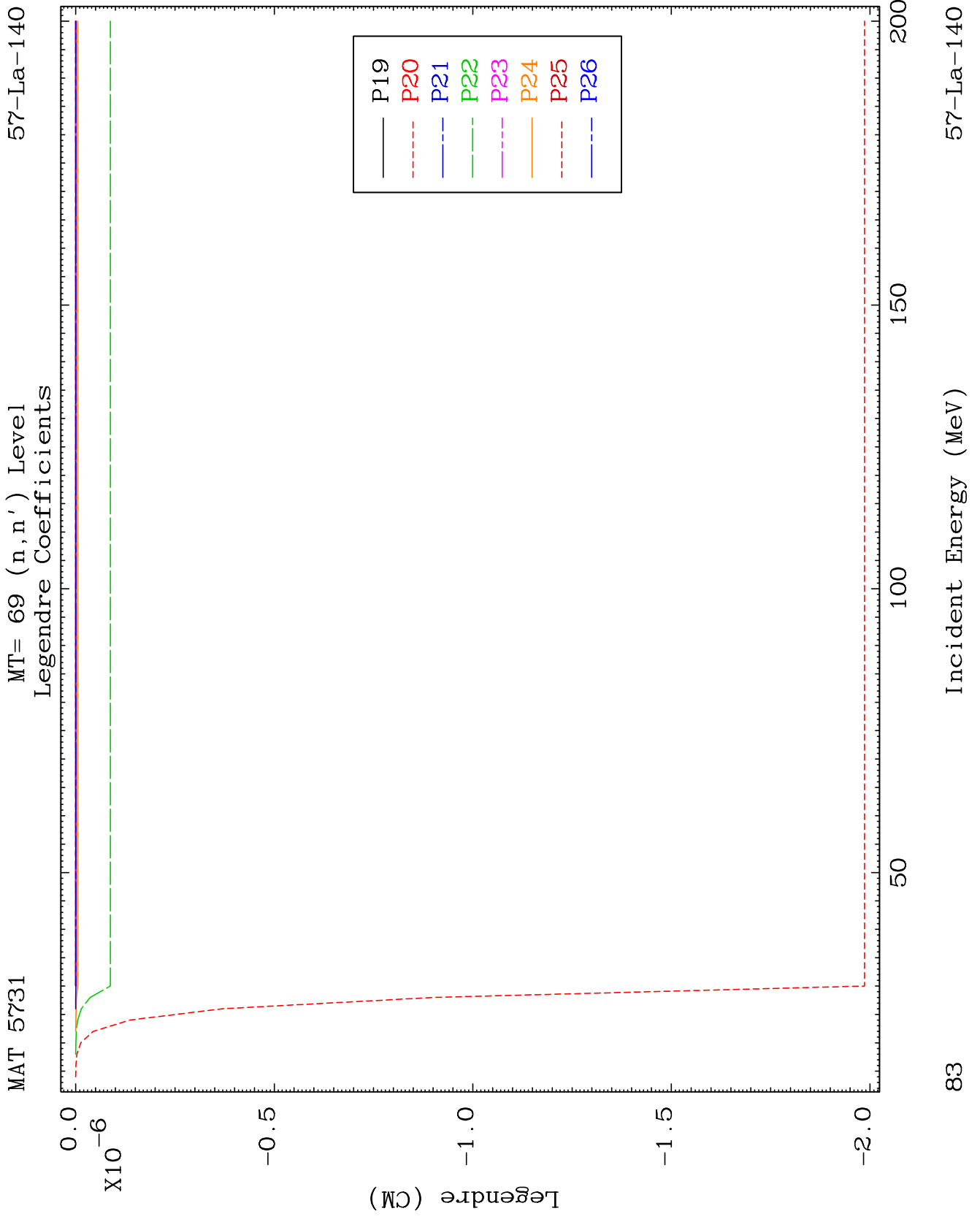
57-La-140



82

Incident Energy (MeV)

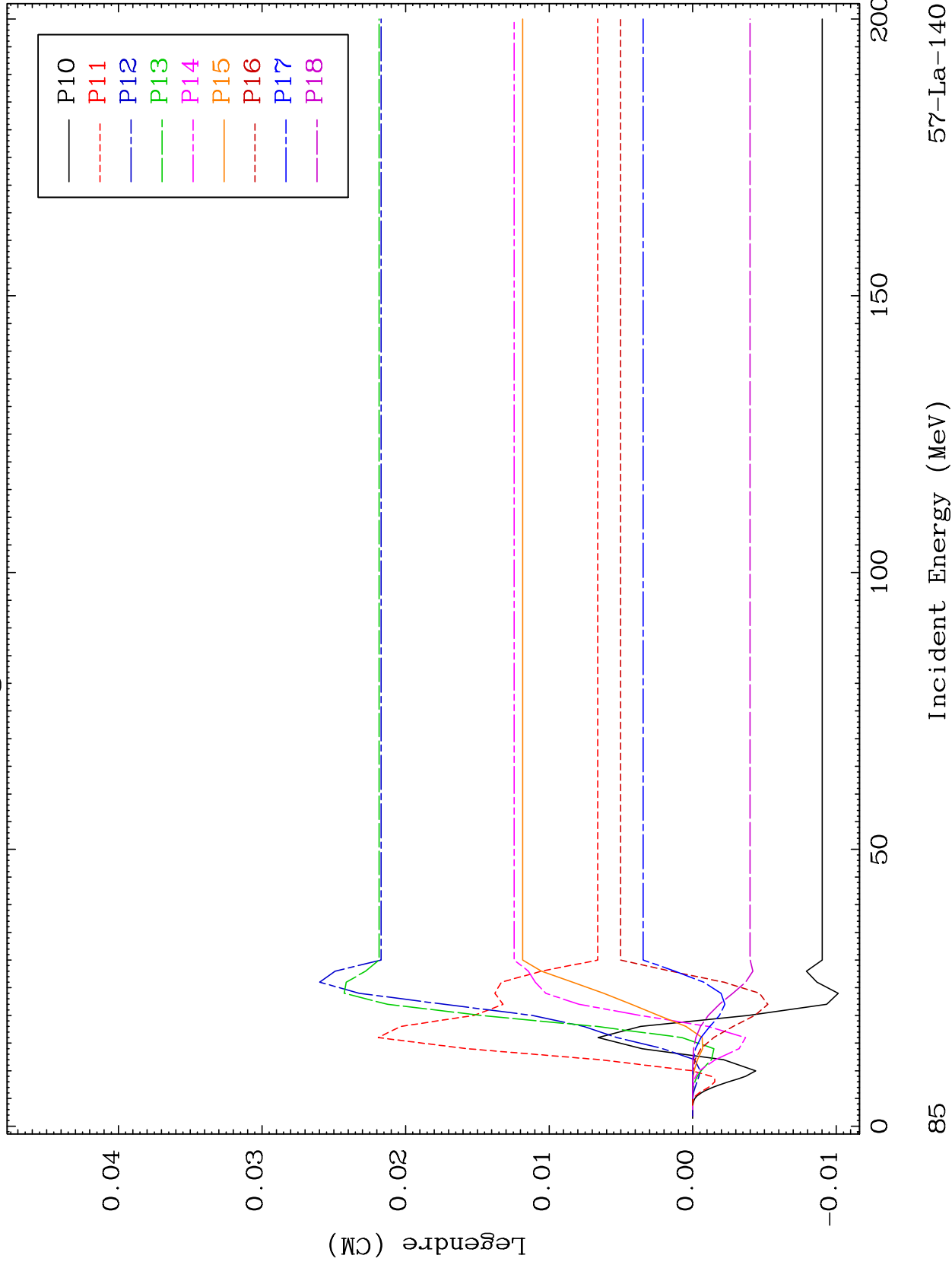
57-La-140



MAT 5731

MT= 70 (n,n') Level
Legendre Coefficients

57-La-140



57-La-140

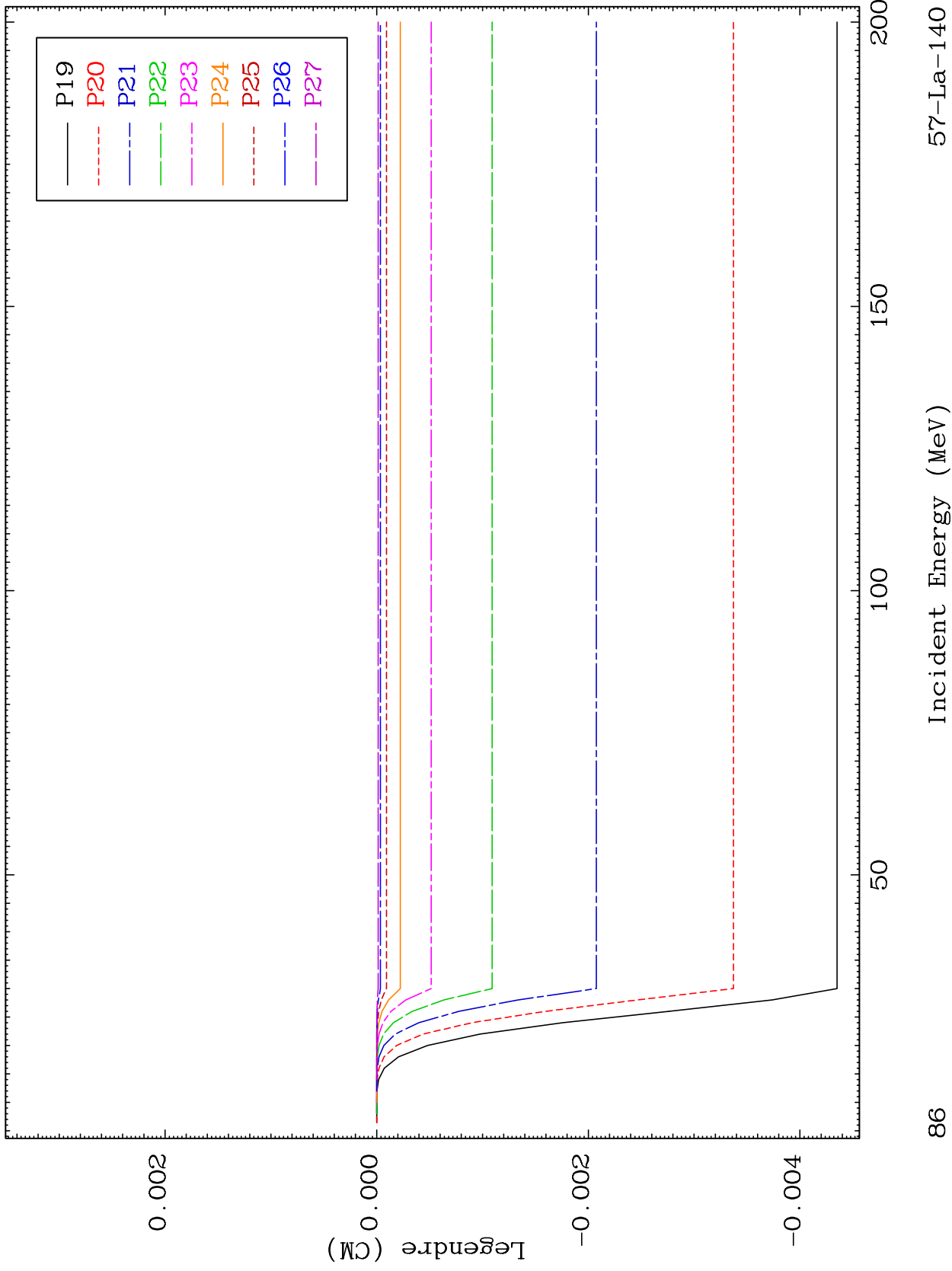
Incident Energy (MeV)

85

MAT 5731

MT= 70 (n,n') Level
Legendre Coefficients

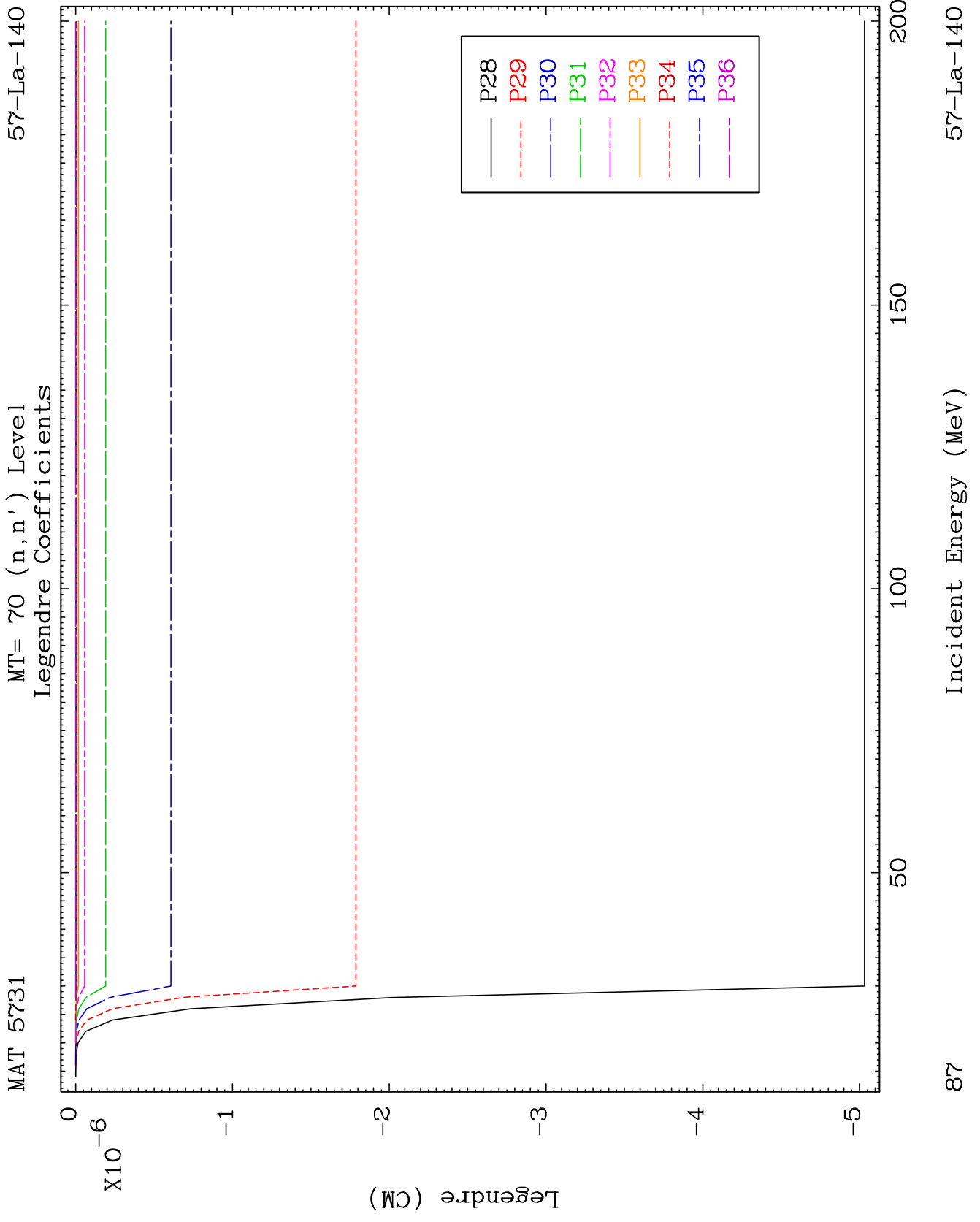
57-La-140



86

Incident Energy (MeV)

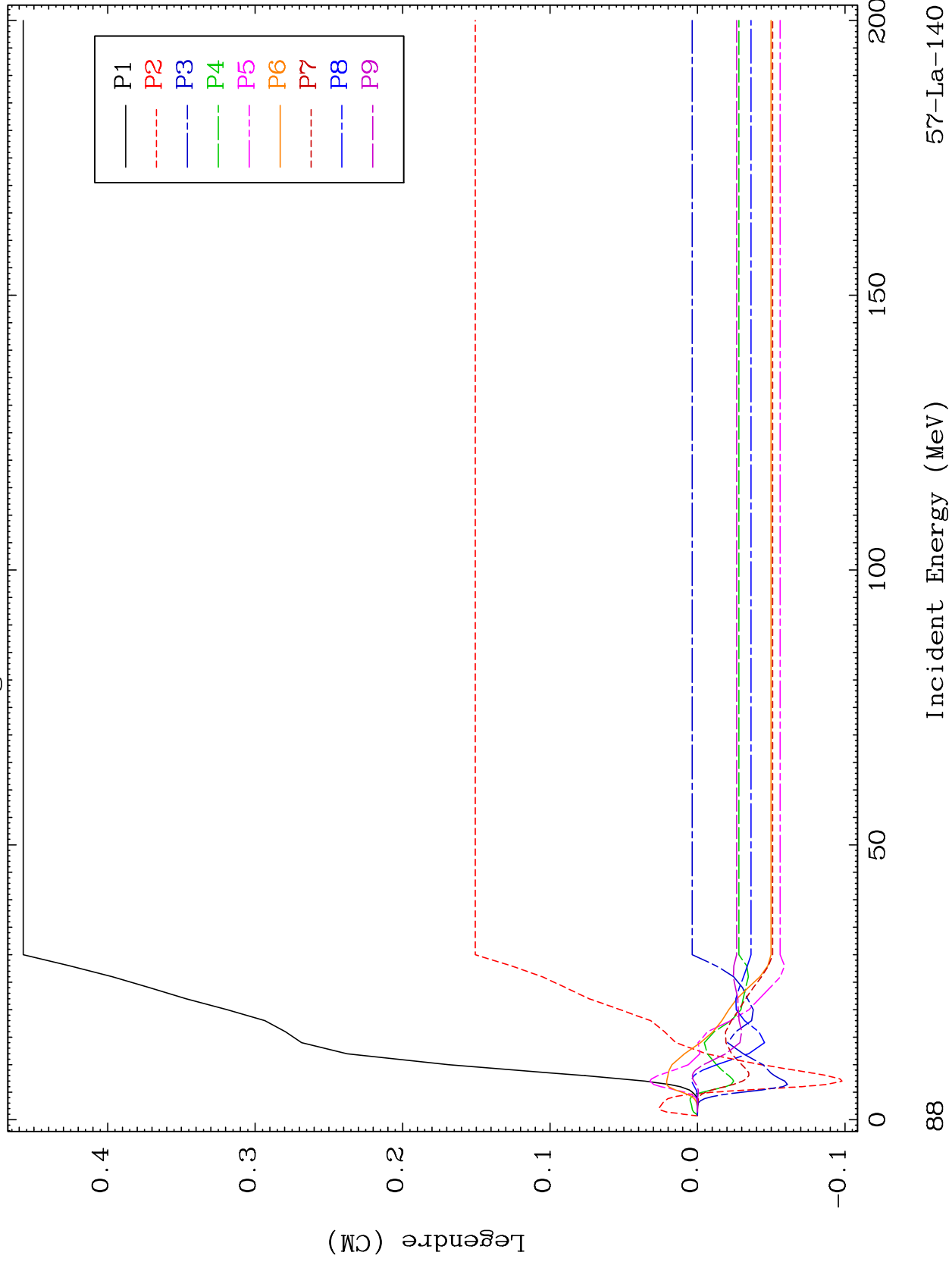
57-La-140



MAT 5731

MT= 71 (n,n') Level
Legendre Coefficients

57-La-140



57-La-140

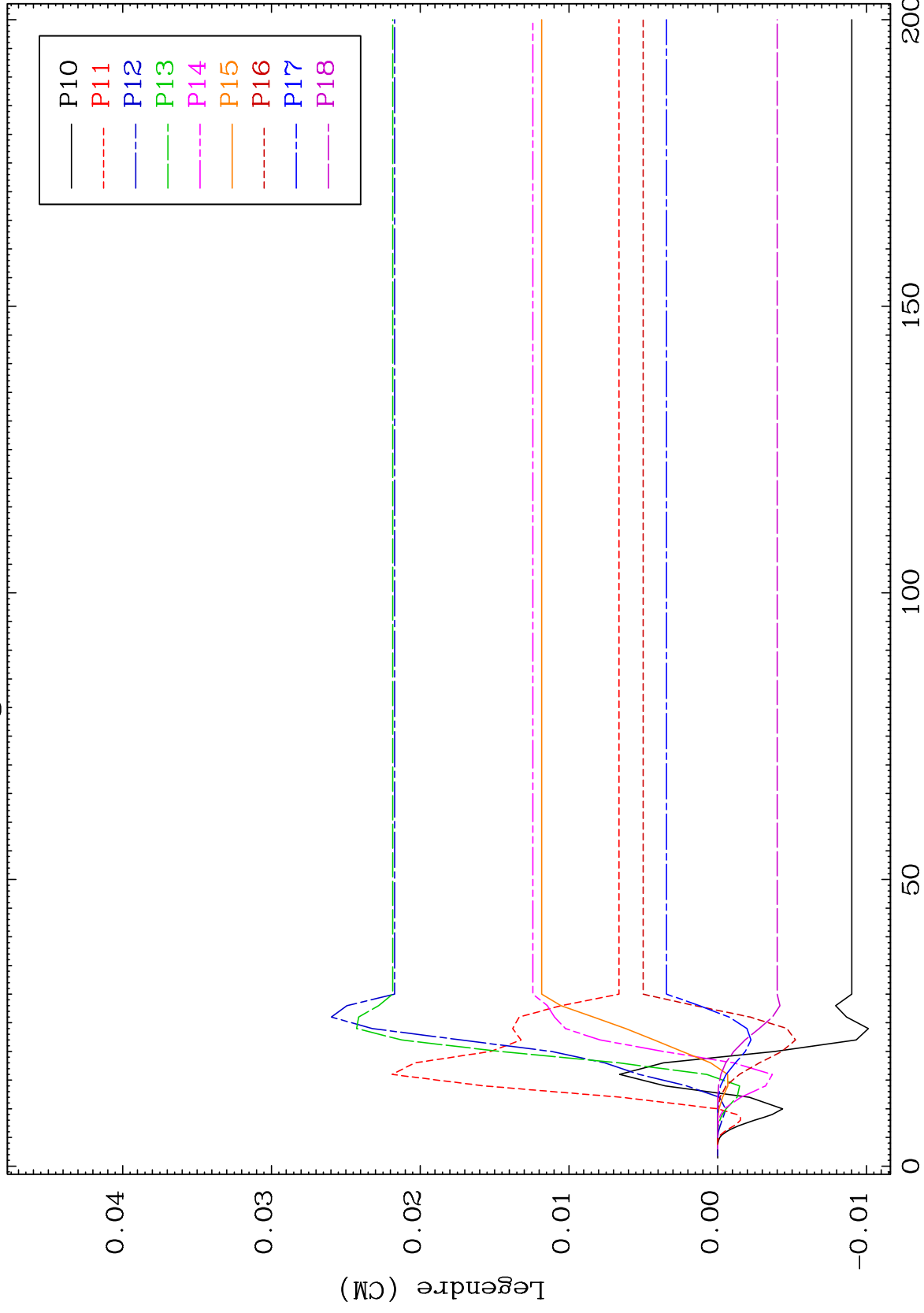
Incident Energy (MeV)

88

MAT 5731

MT= 71 (n,n') Level
Legendre Coefficients

57-La-140



89

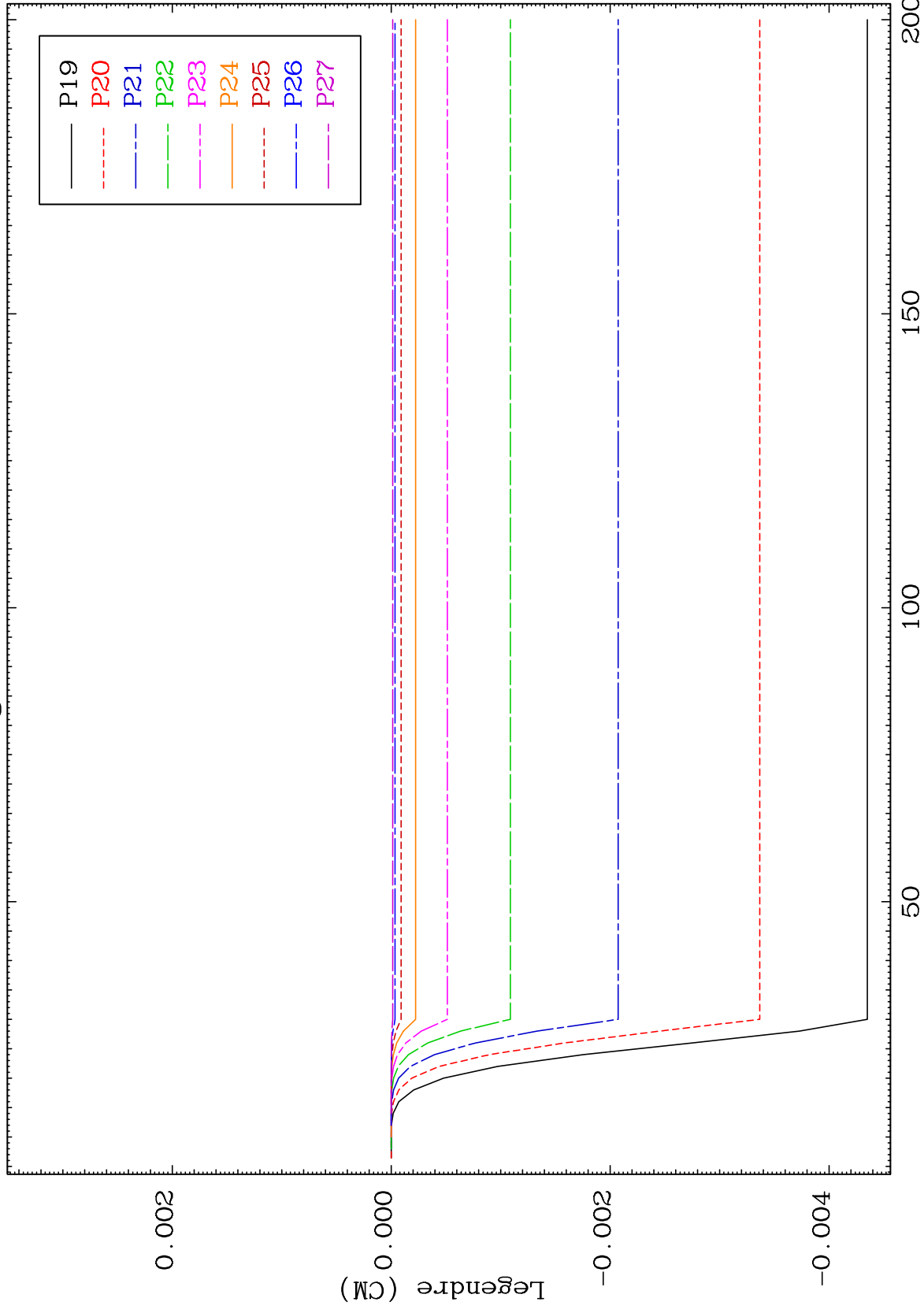
Incident Energy (MeV)

57-La-140

MAT 5731

MT= 71 (n,n') Level
Legendre Coefficients

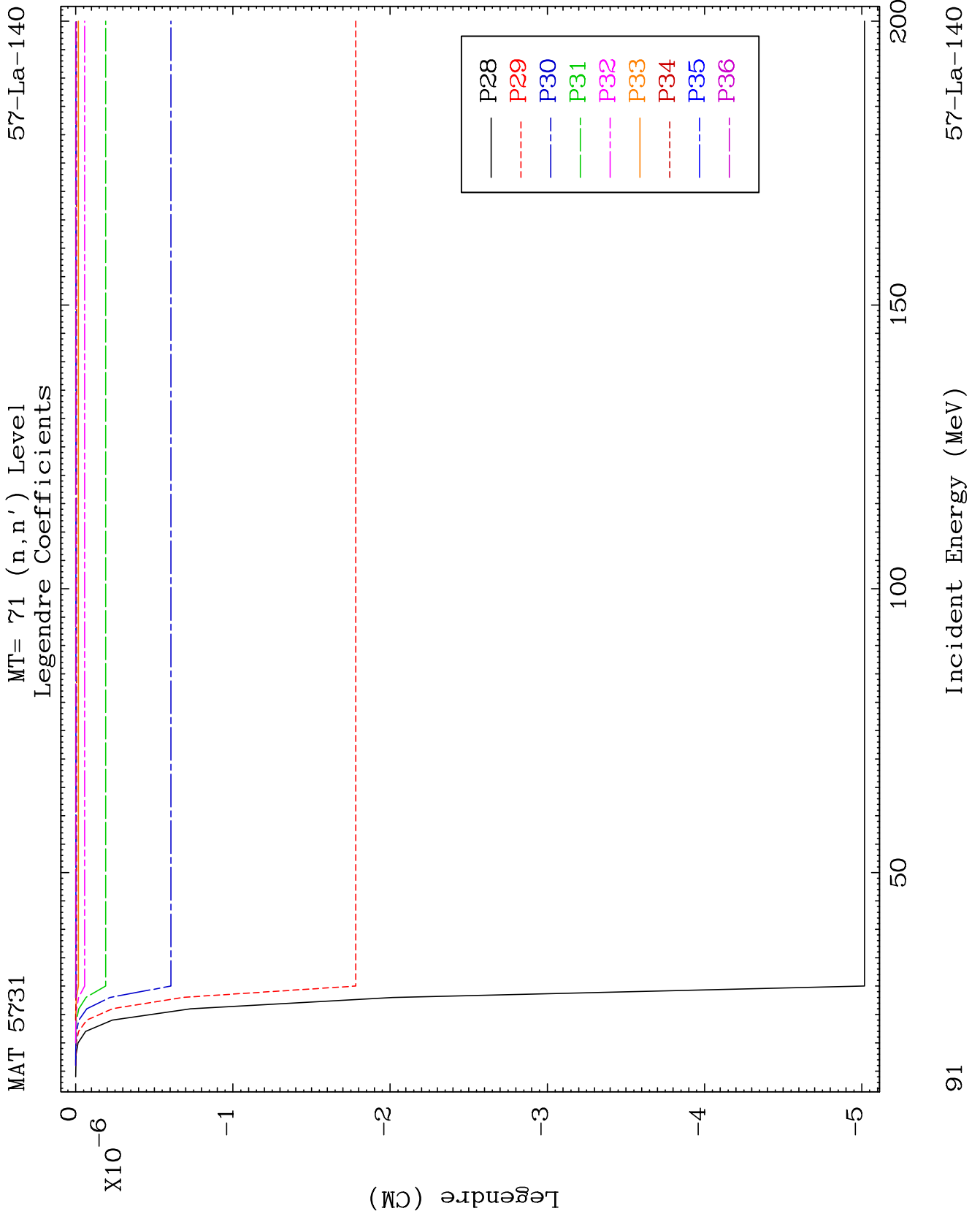
57-La-140

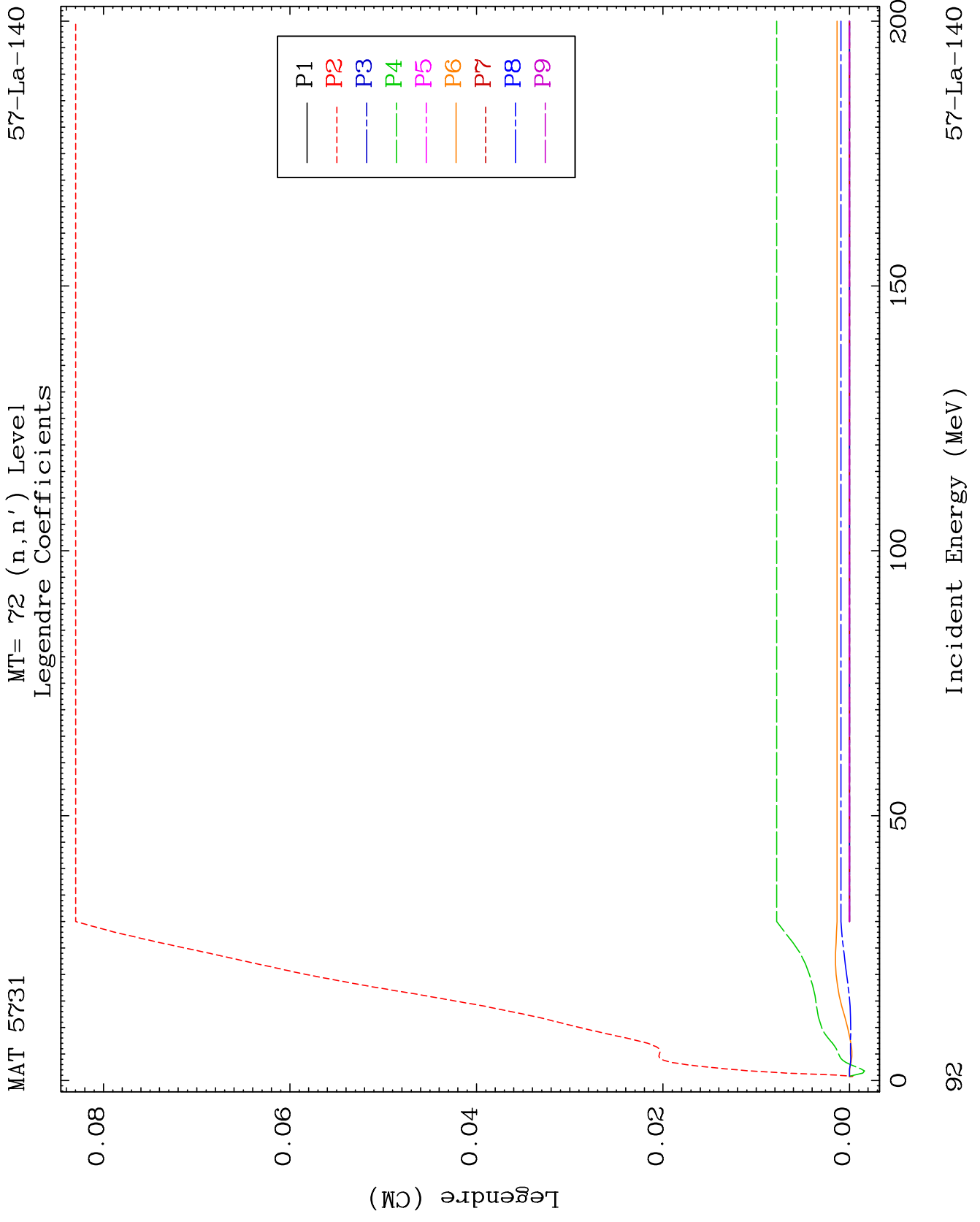


90

Incident Energy (MeV)

57-La-140

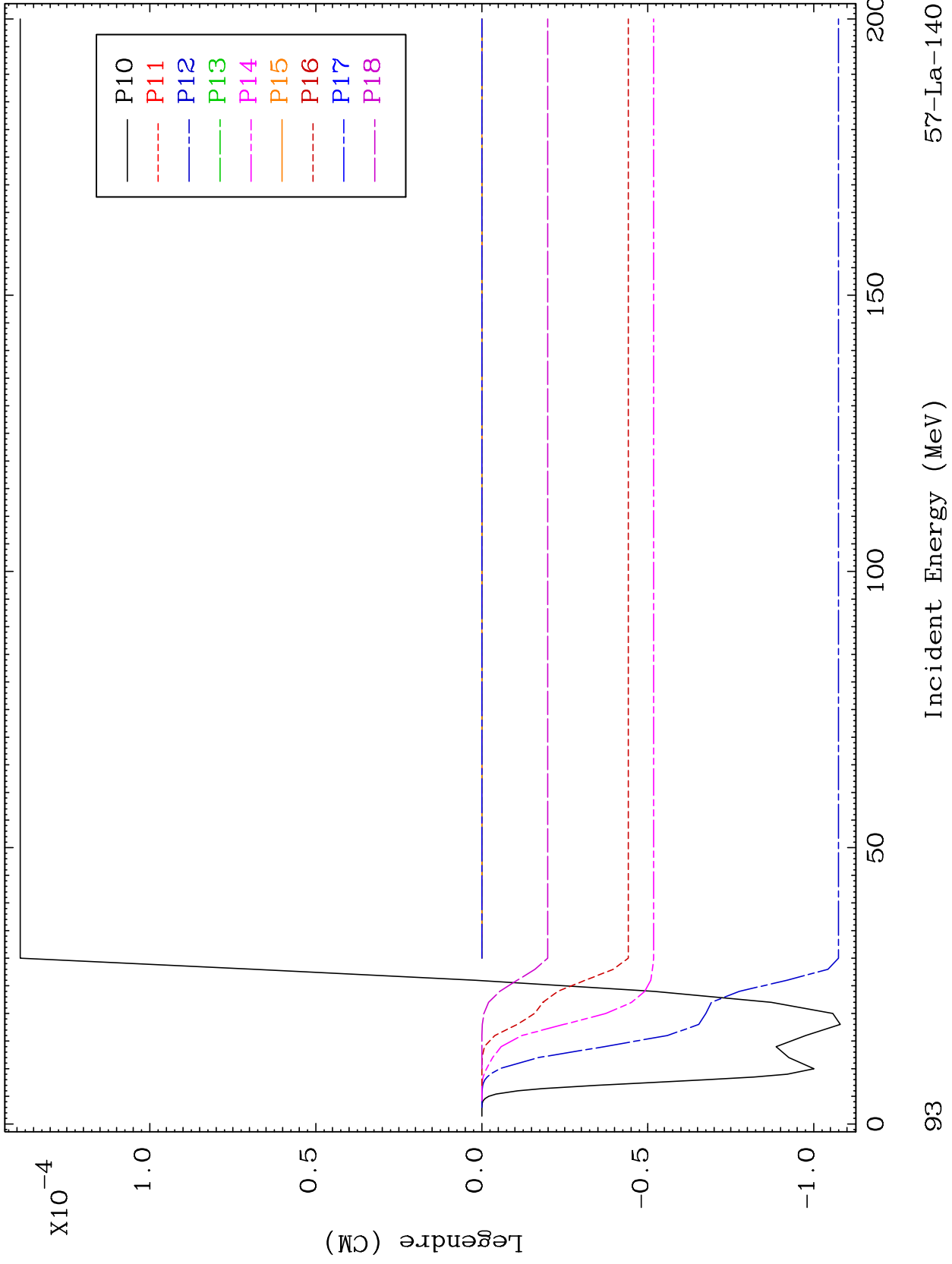


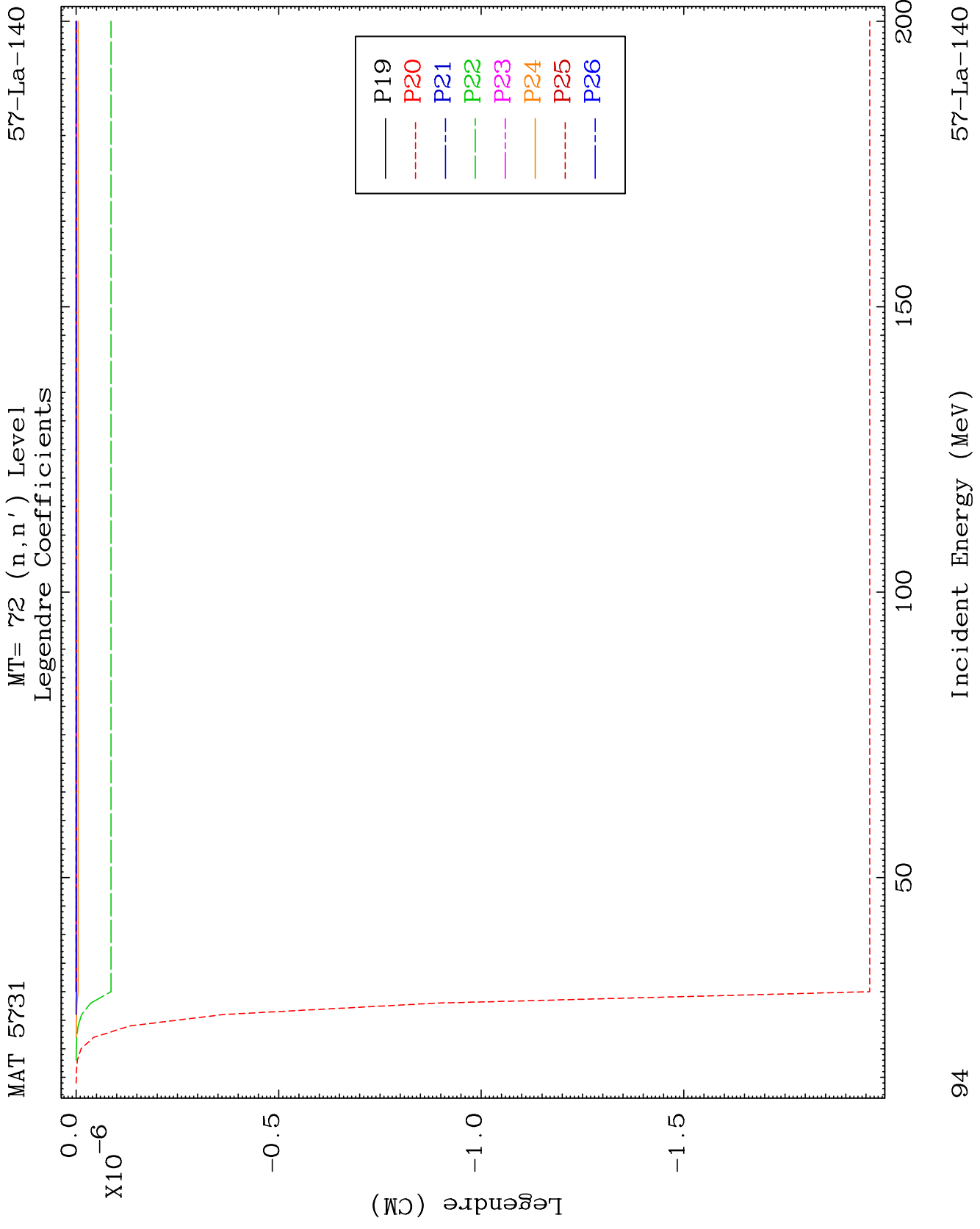


MAT 5731

MT= 72 (n,n') Level
Legendre Coefficients

57-La-140

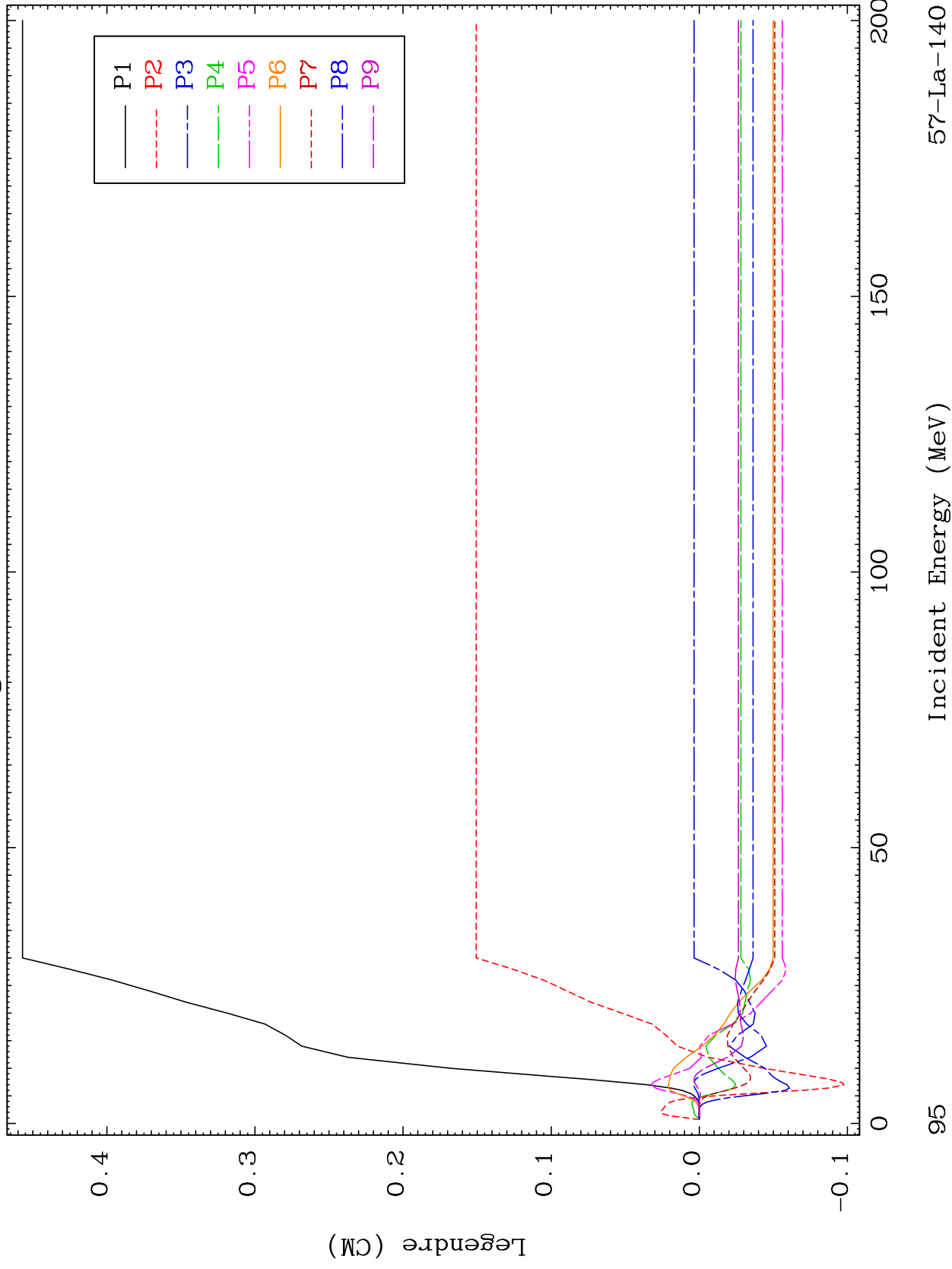




MAT 5731

MT= 73 (n,n') Level
Legendre Coefficients

57-La-140



57-La-140

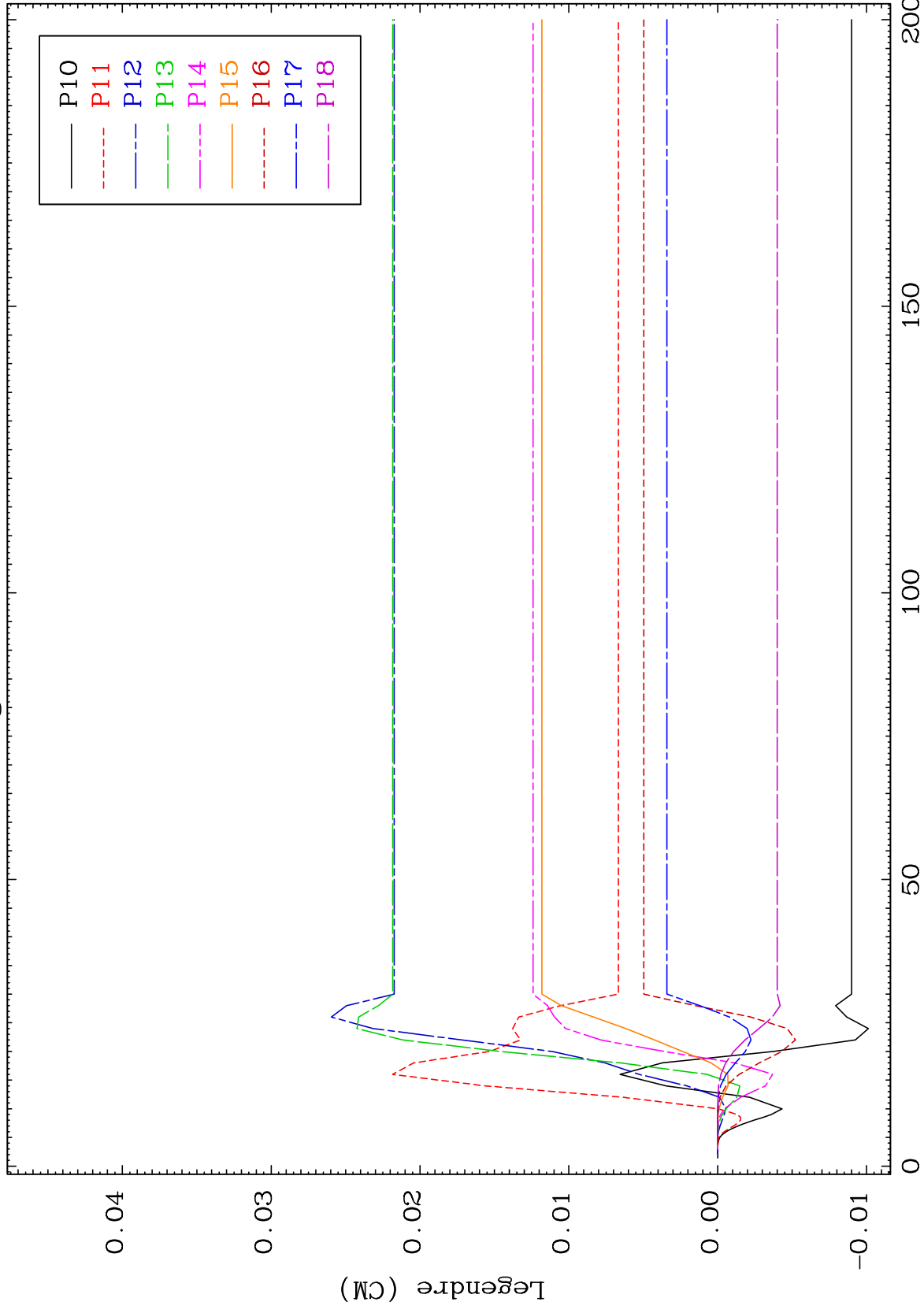
Incident Energy (MeV)

95

MAT 5731

MT= 73 (n,n') Level
Legendre Coefficients

57-La-140



96

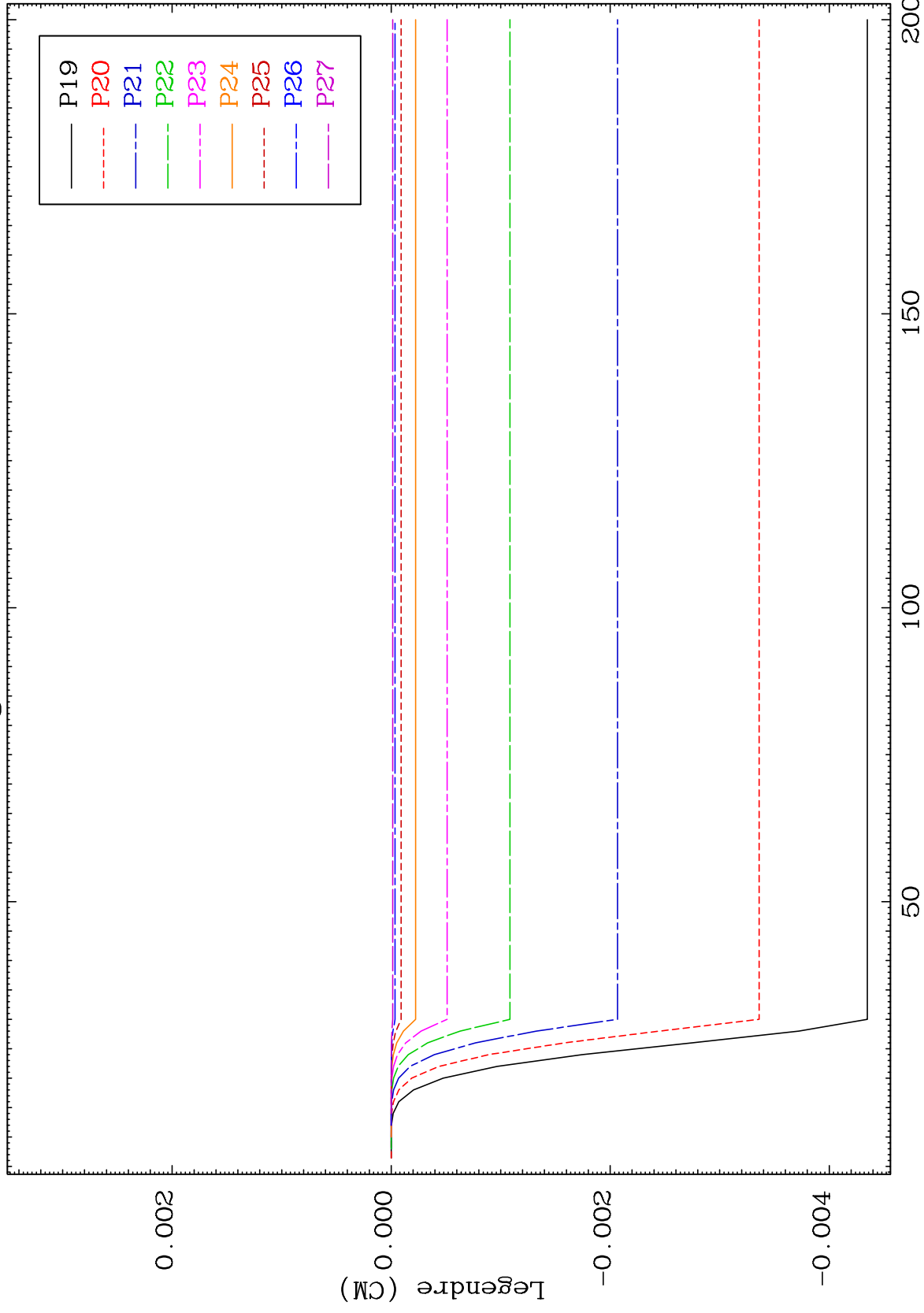
Incident Energy (MeV)

57-La-140

MAT 5731

MT= 73 (n,n') Level
Legendre Coefficients

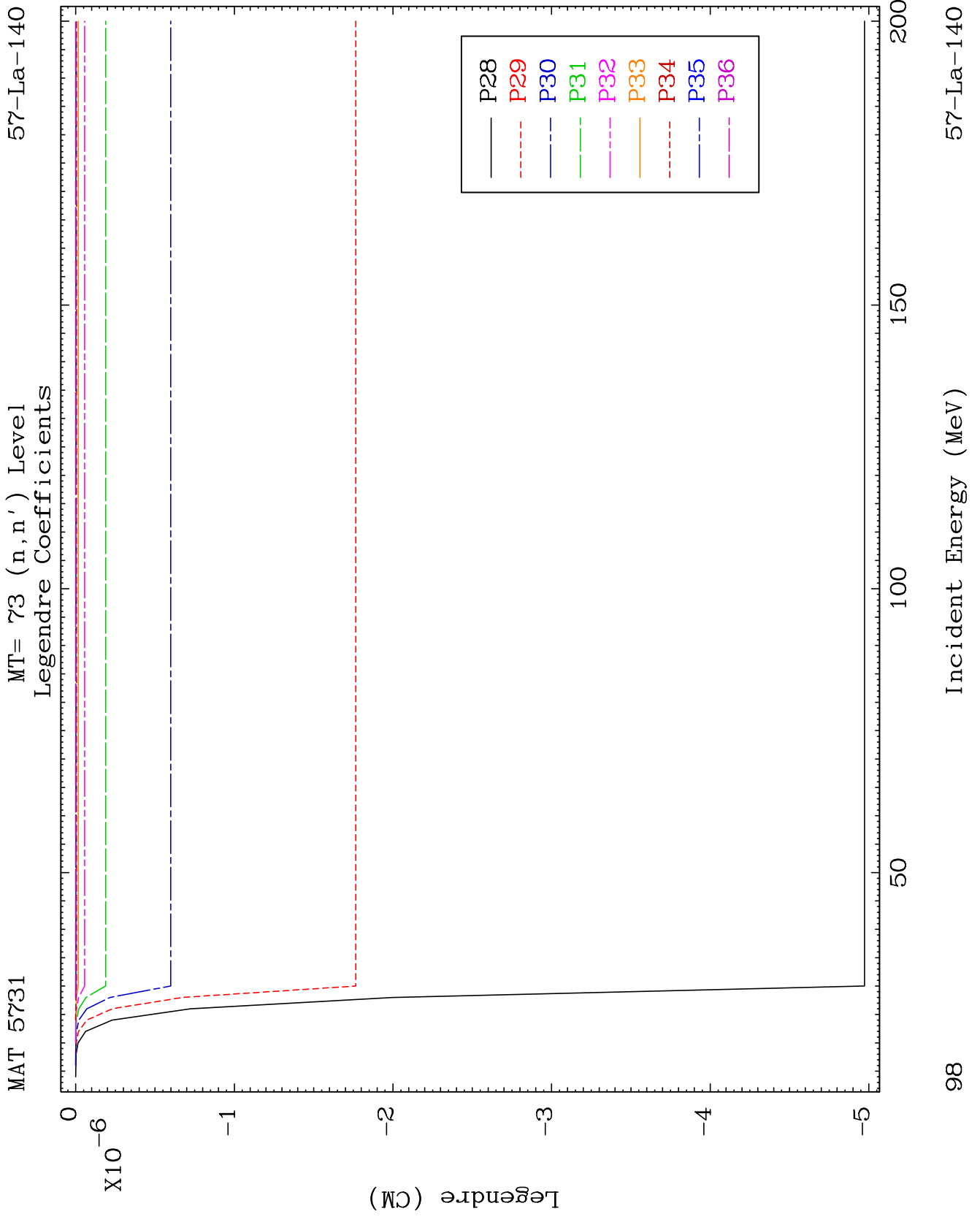
57-La-140

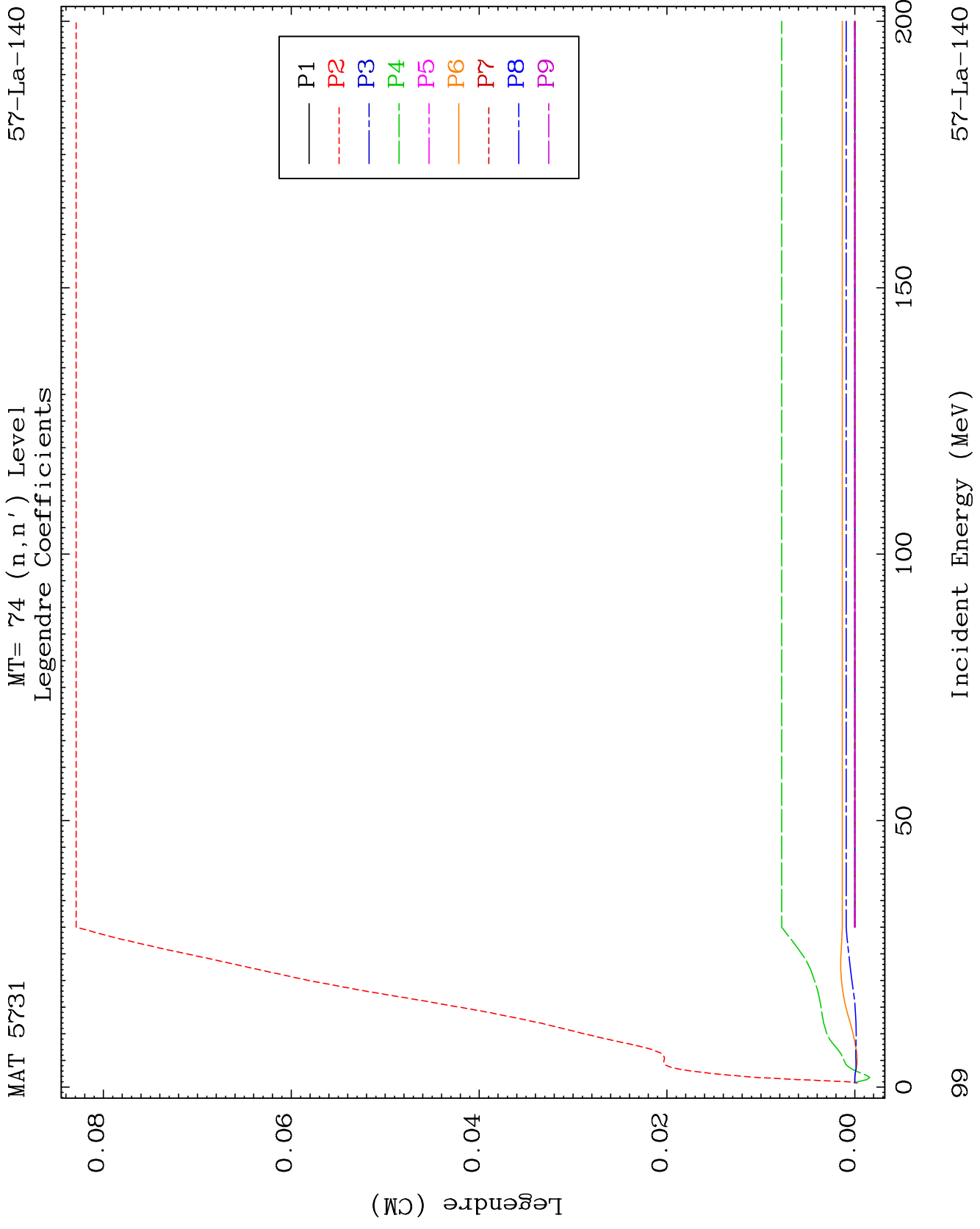


97

Incident Energy (MeV)

57-La-140

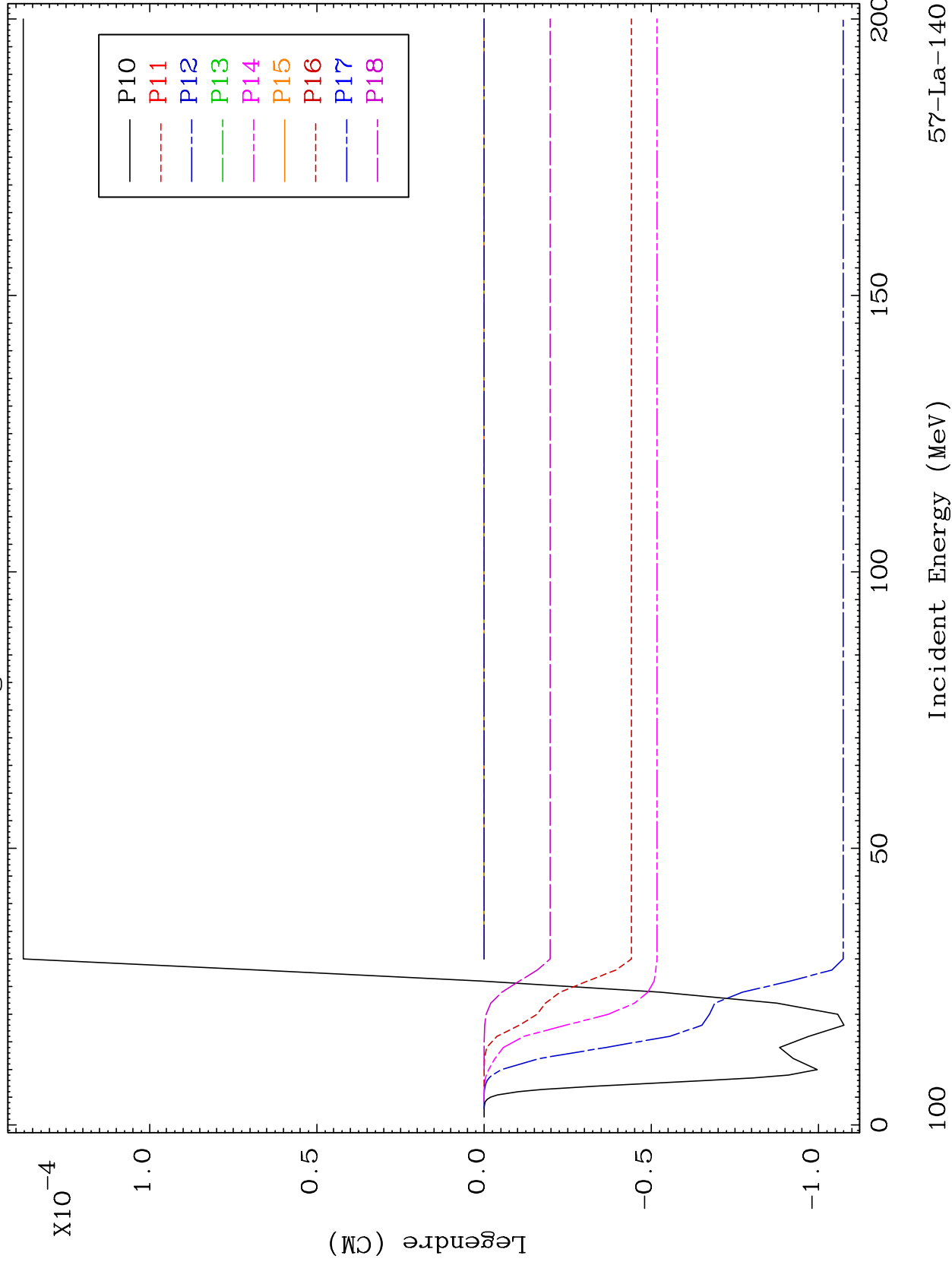




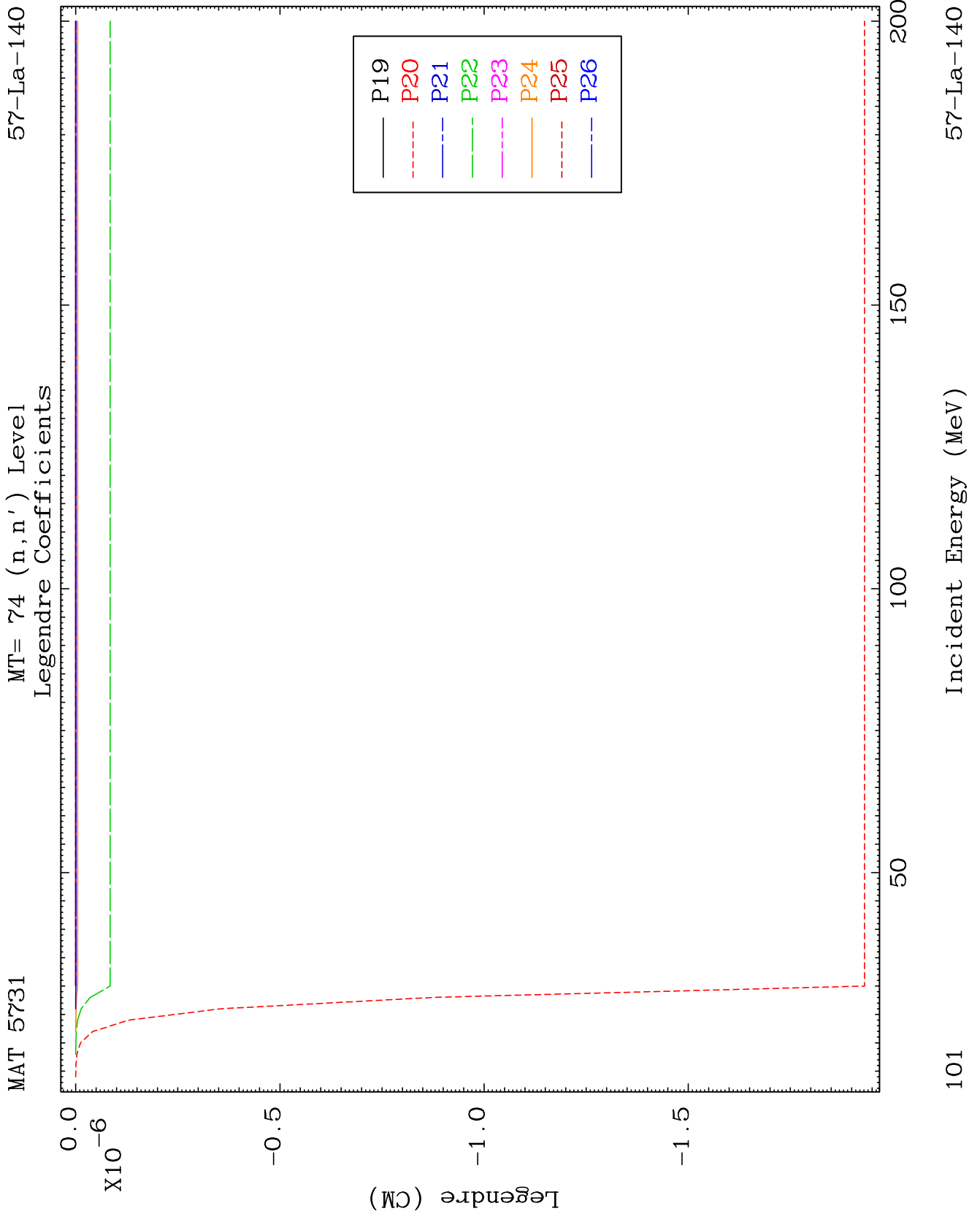
MAT 5731

MT= 74 (n,n') Level
Legendre Coefficients

57-La-140



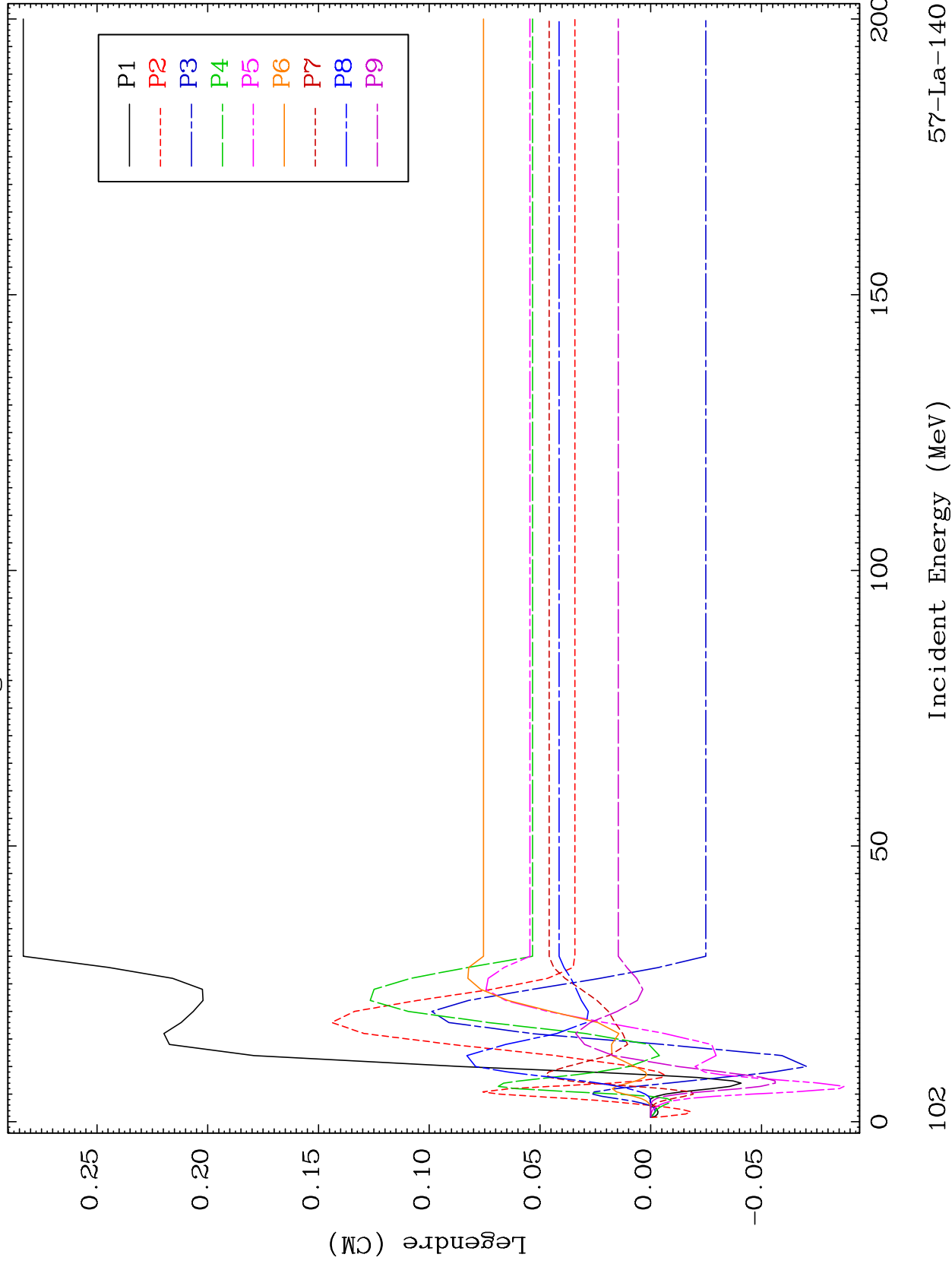
57-La-140



MAT 5731

MT= 75 (n,n') Level
Legendre Coefficients

57-La-140



57-La-140

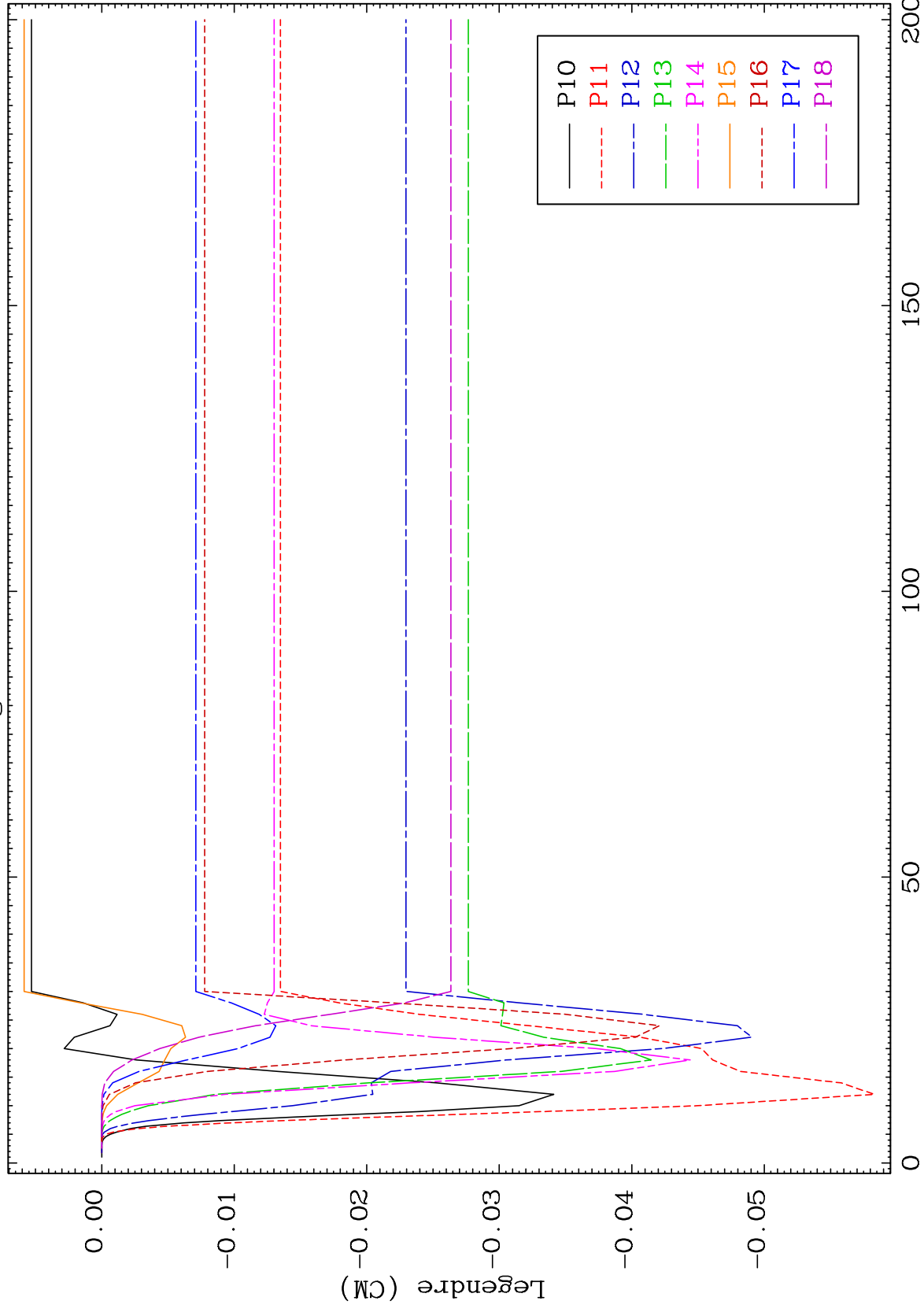
Incident Energy (MeV)

102

MAT 5731

MT= 75 (n,n') Level
Legendre Coefficients

57-La-140



0

50

100

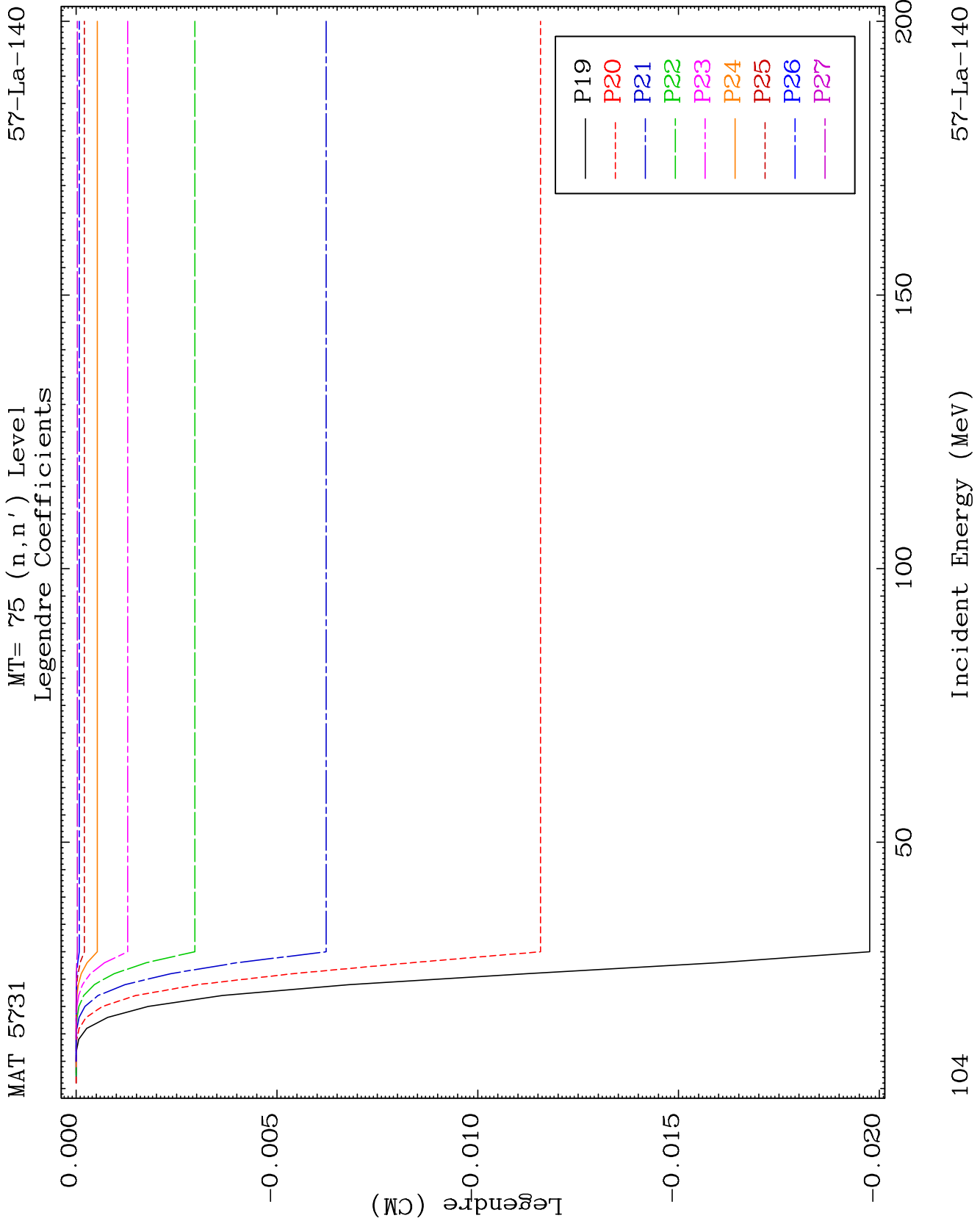
150

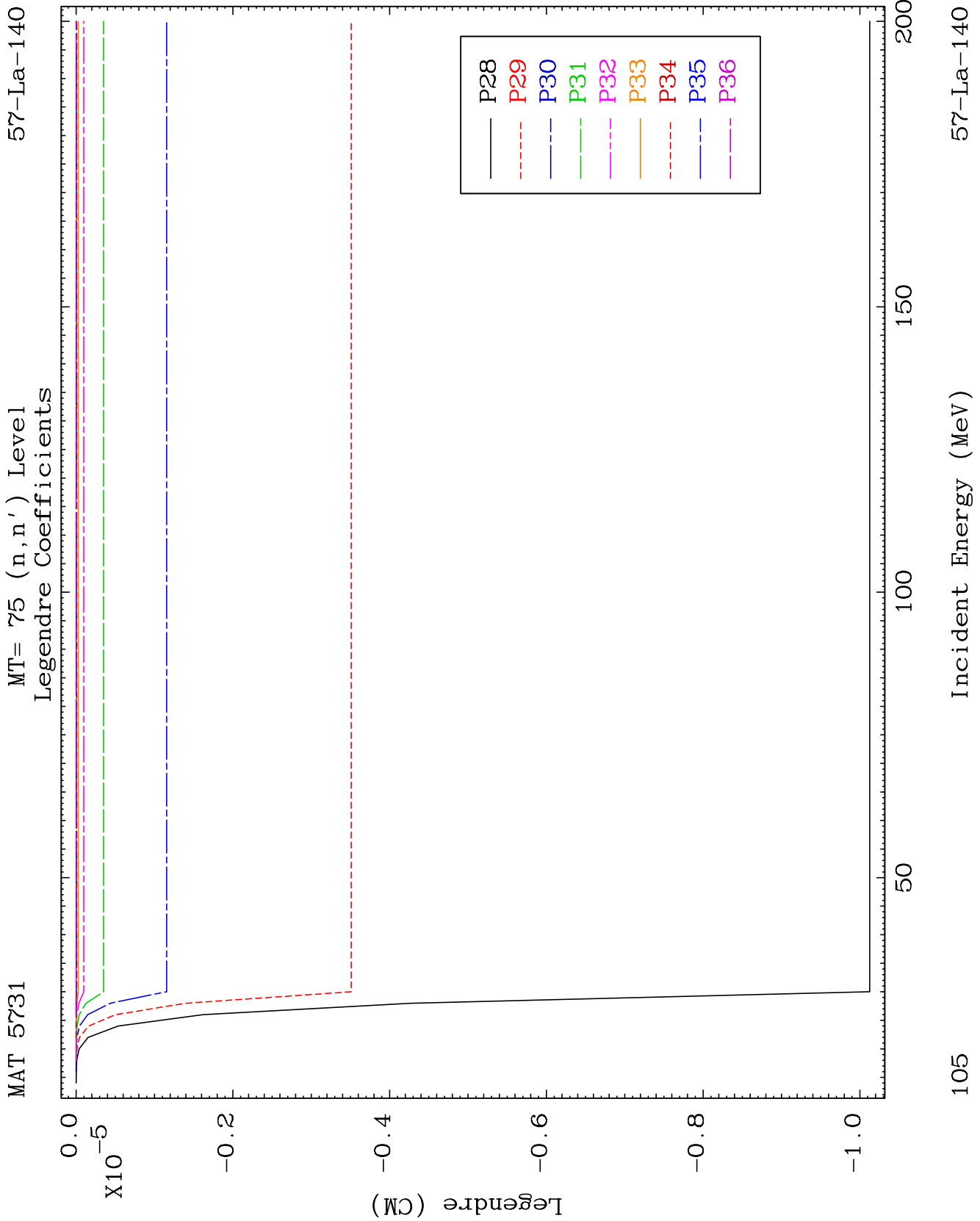
200

Incident Energy (MeV)

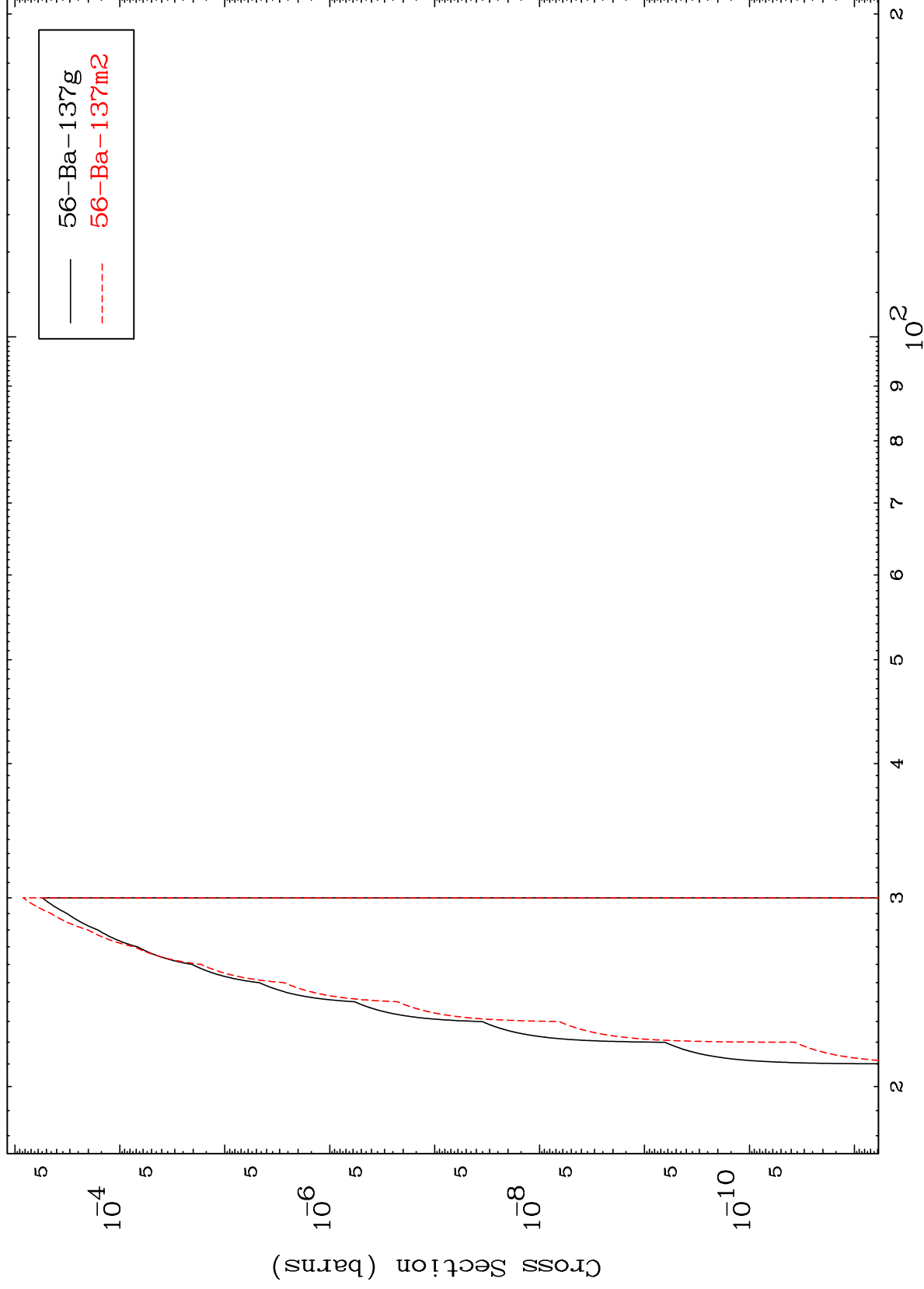
57-La-140

103





Radionuclide Production Cross Section

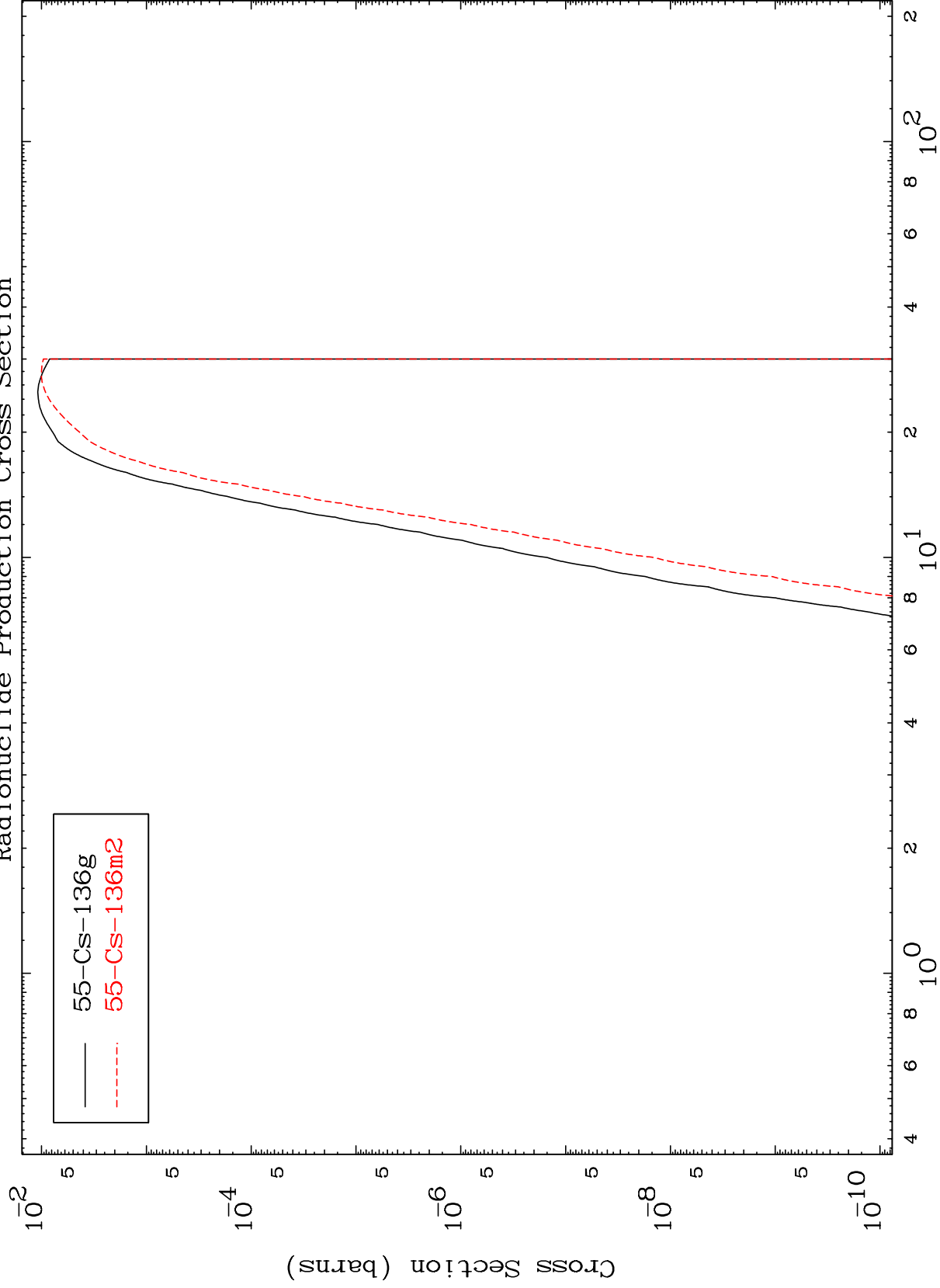


MAT 5731

$(n, n') \alpha$

57-La-140

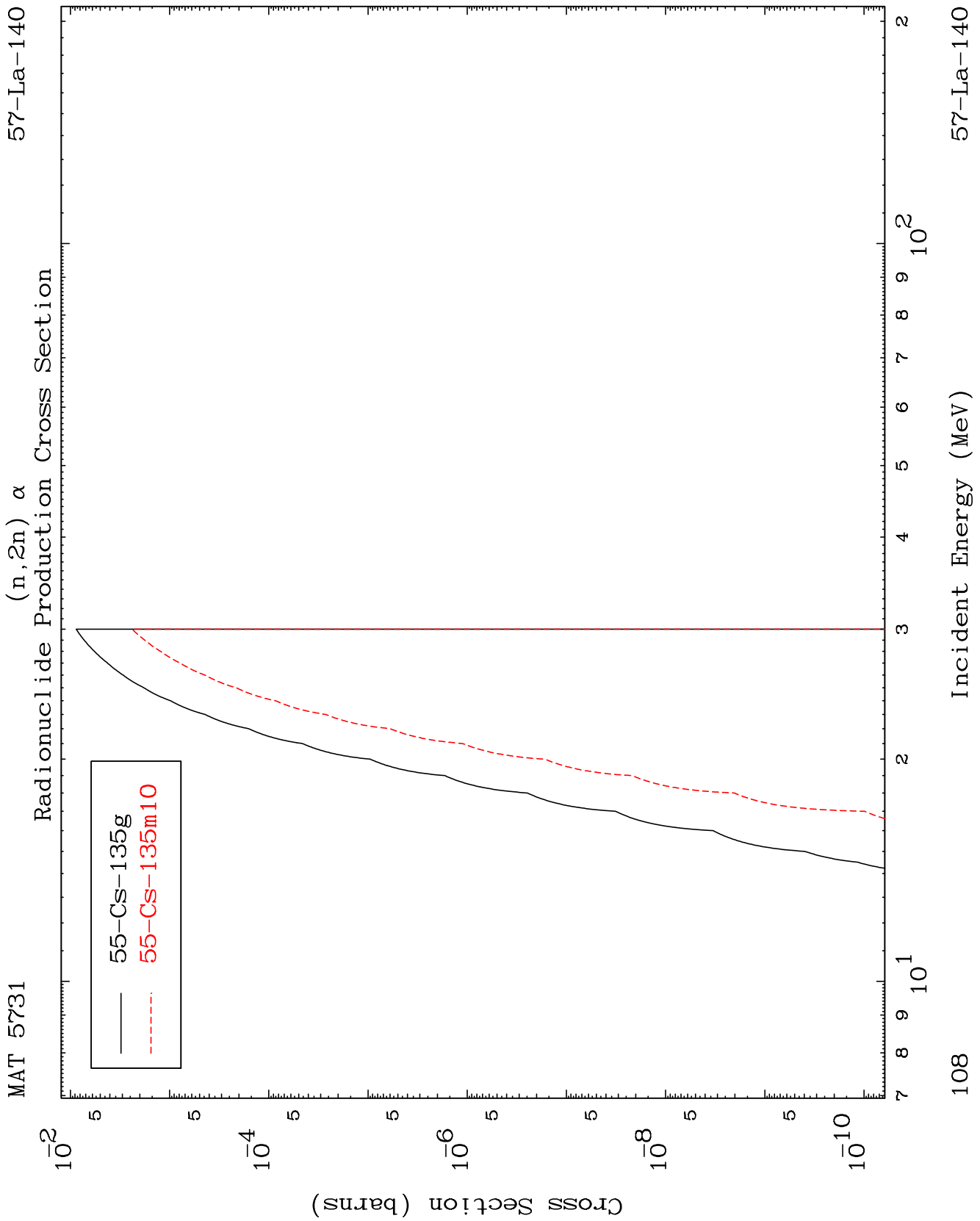
Radionuclide Production Cross Section



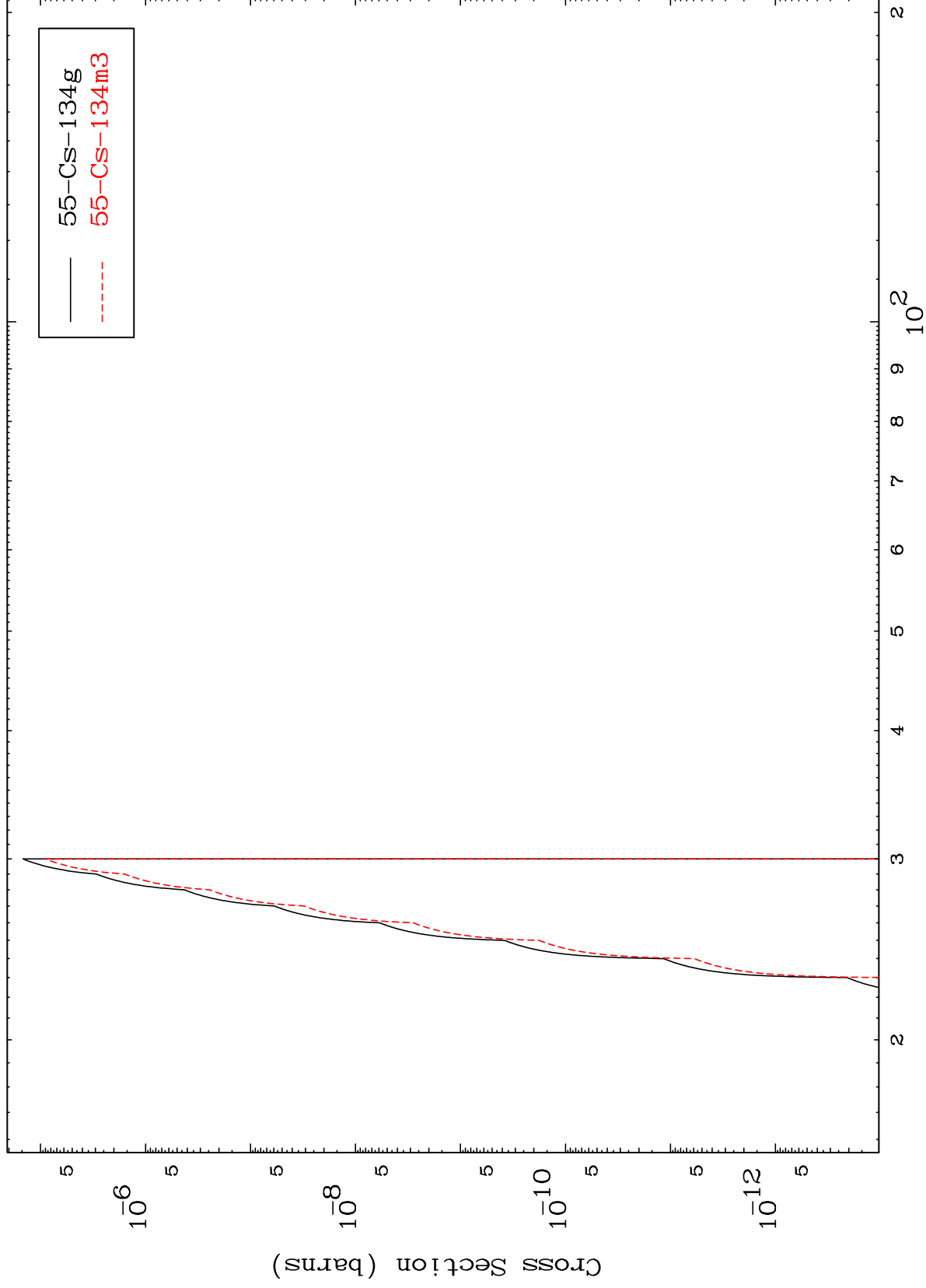
107

Incident Energy (MeV)

57-La-140



$(n,3n) \alpha$
Radionuclide Production Cross Section

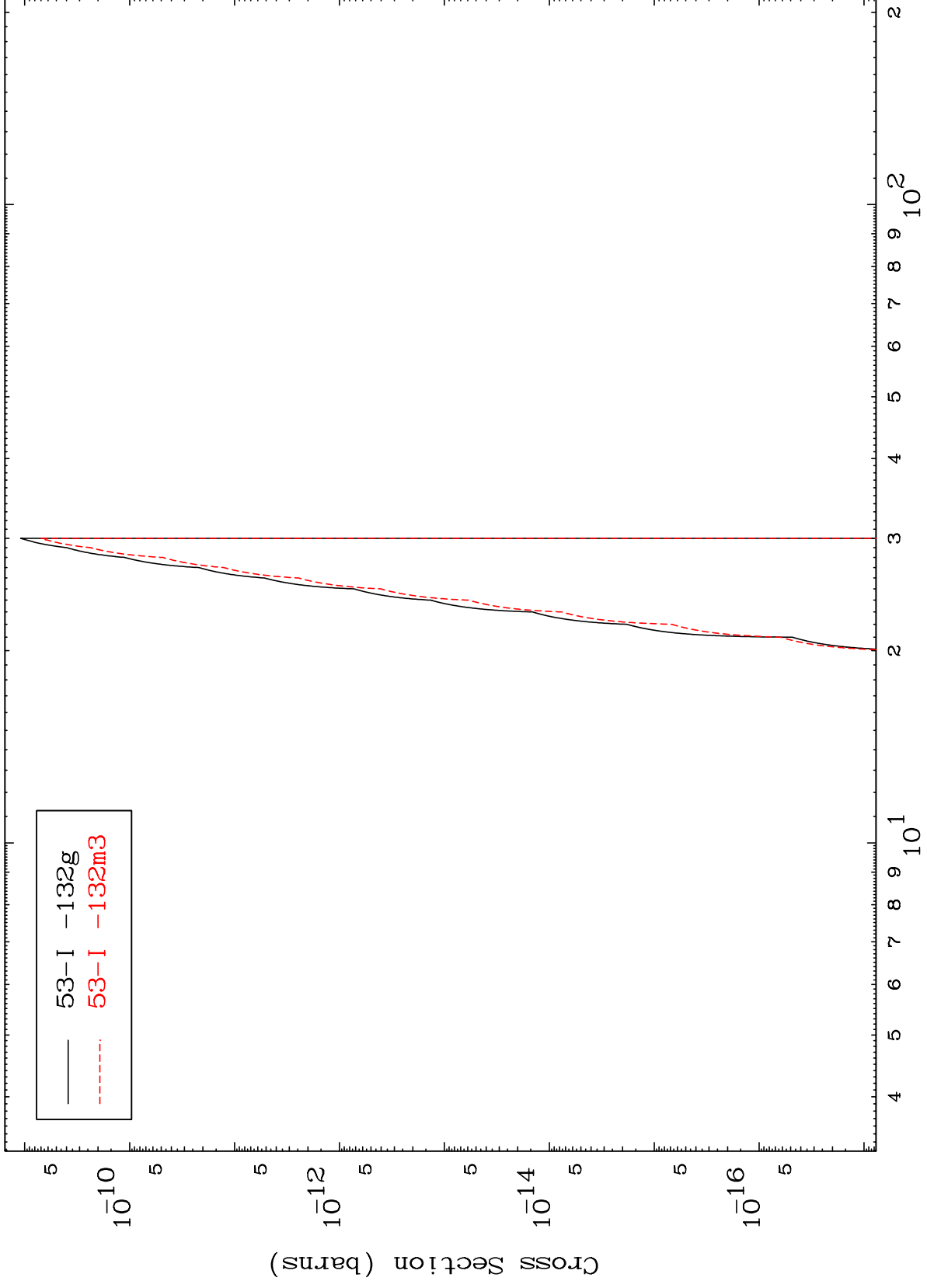


MAT 5731

(n,n') 2α

57-La-140

Radionuclide Production Cross Section

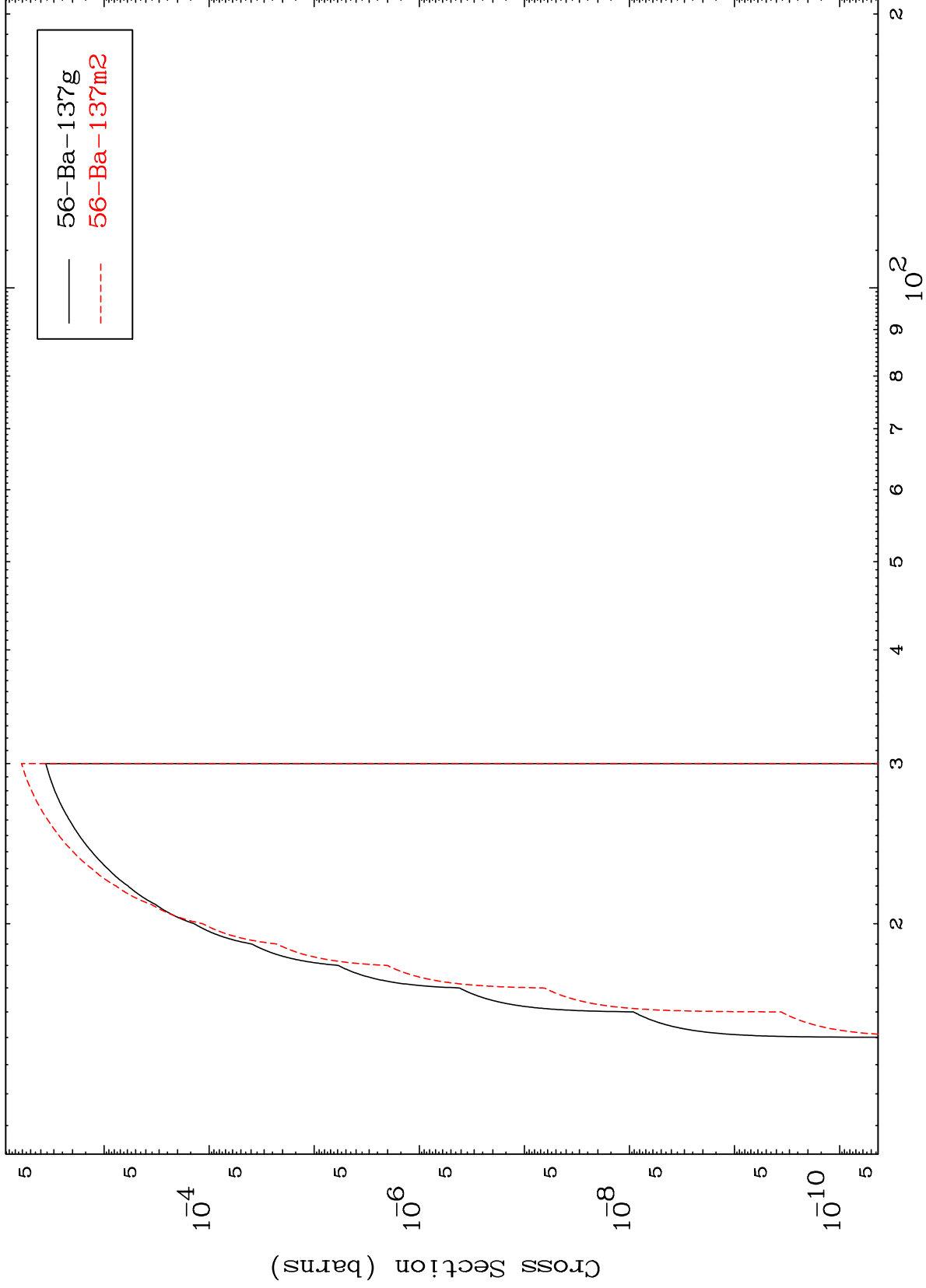


110

Incident Energy (MeV)

57-La-140

Radionuclide Production Cross Section

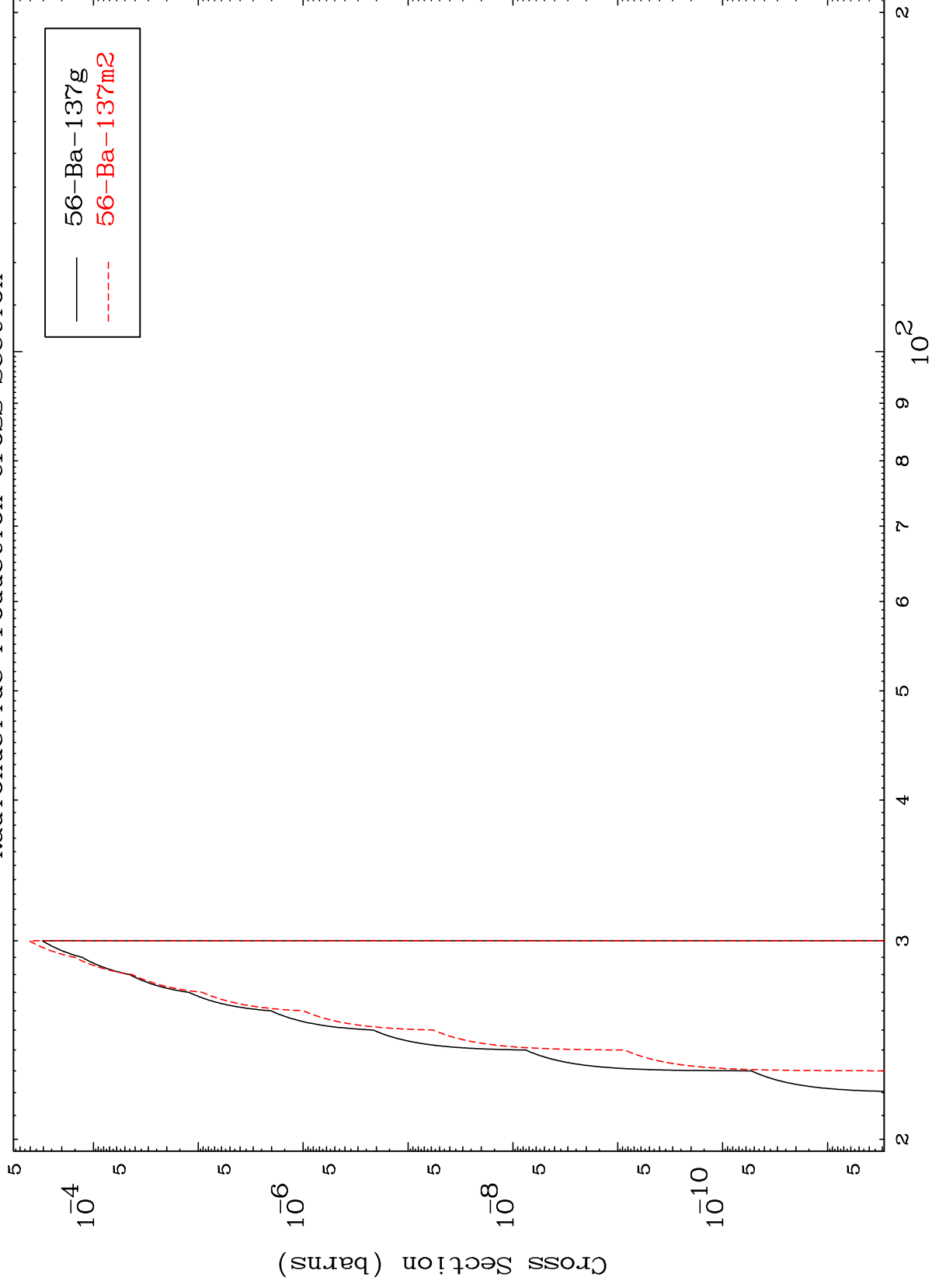


MAT 5731

(n,3n) p

57-La-140

Radionuclide Production Cross Section

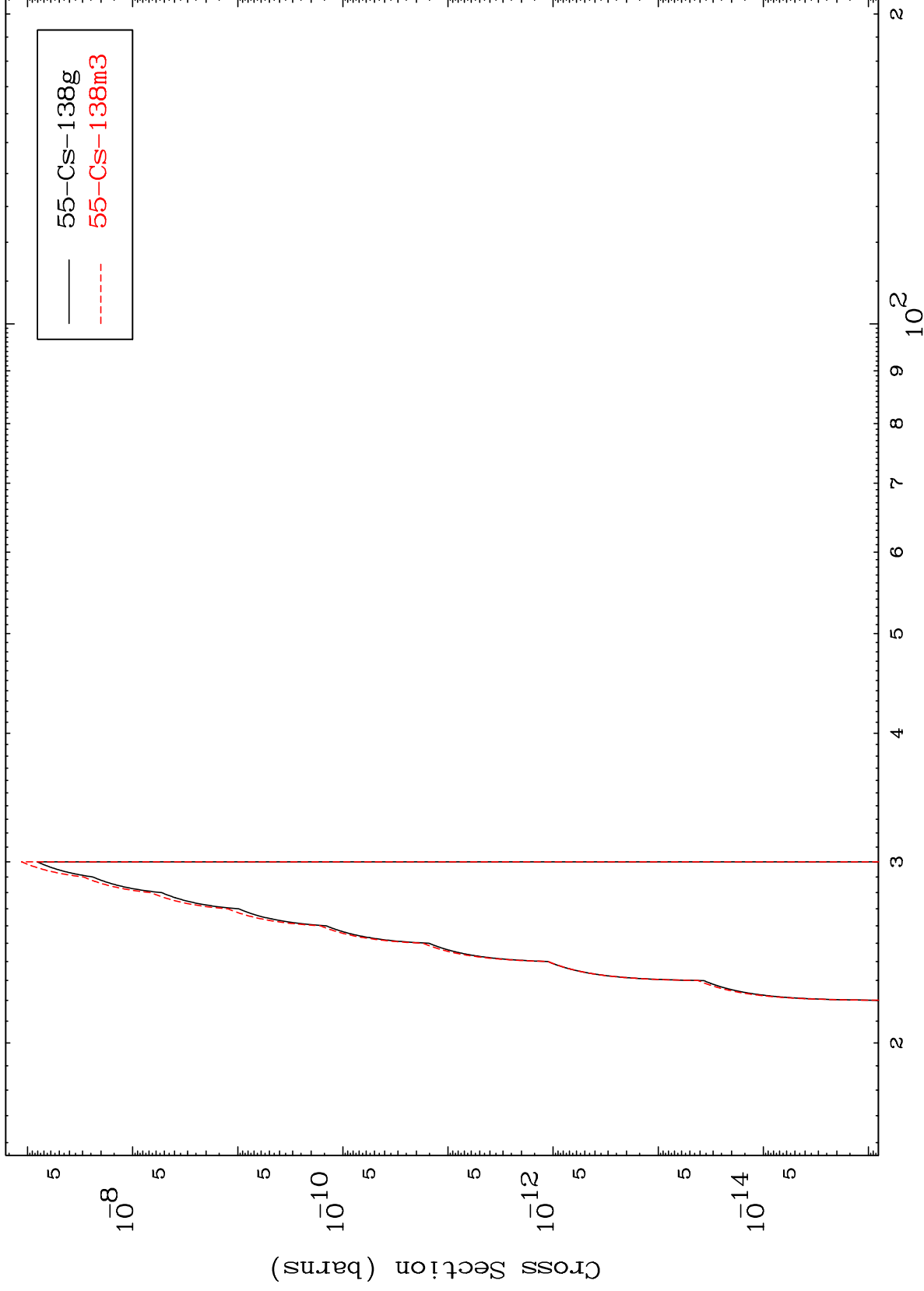


112

Incident Energy (MeV)

57-La-140

(n,2n) p
Radionuclide Production Cross Section

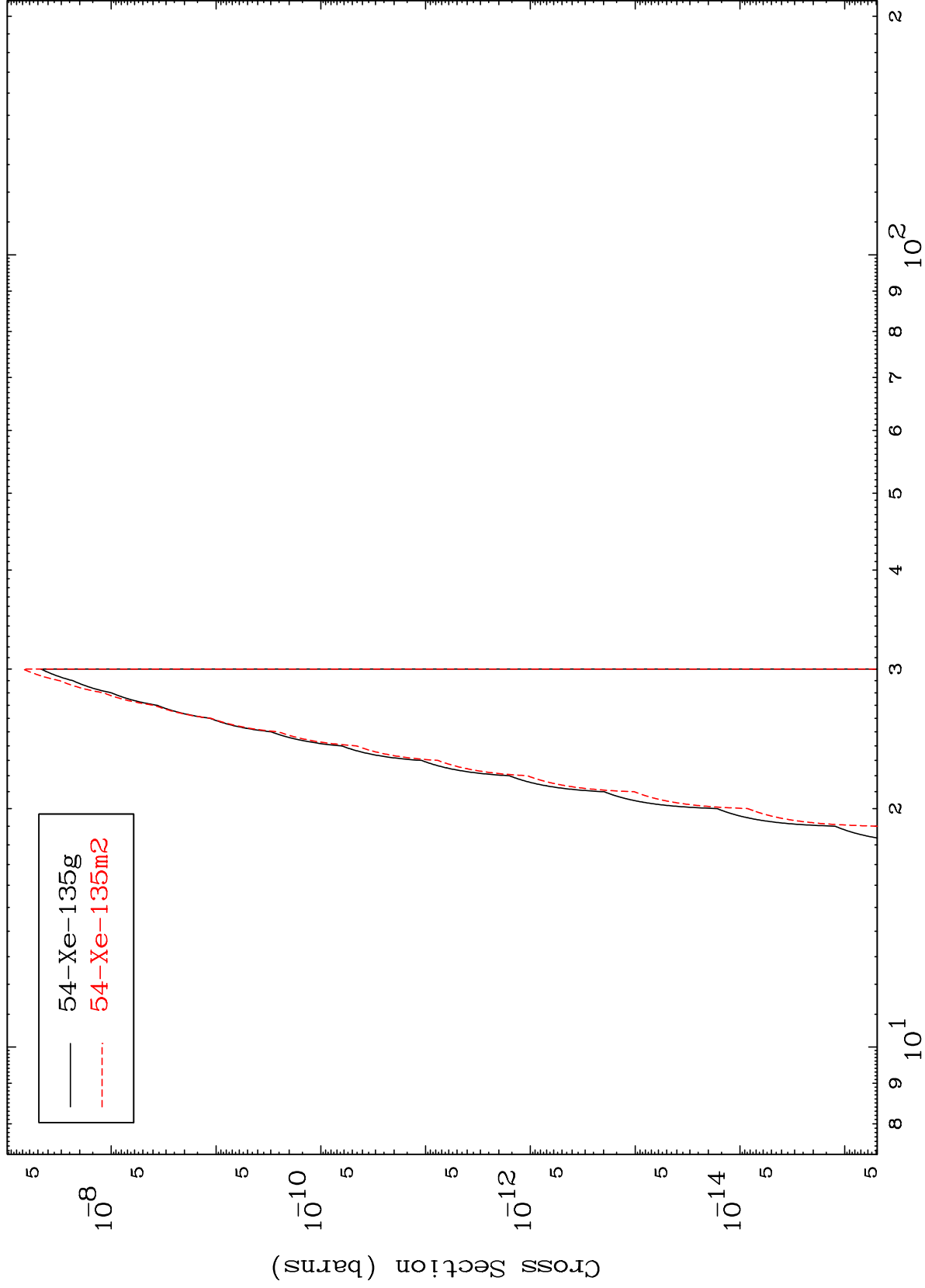


MAT 5731

(n,n') p α

57-La-140

Radionuclide Production Cross Section



114

Incident Energy (MeV)

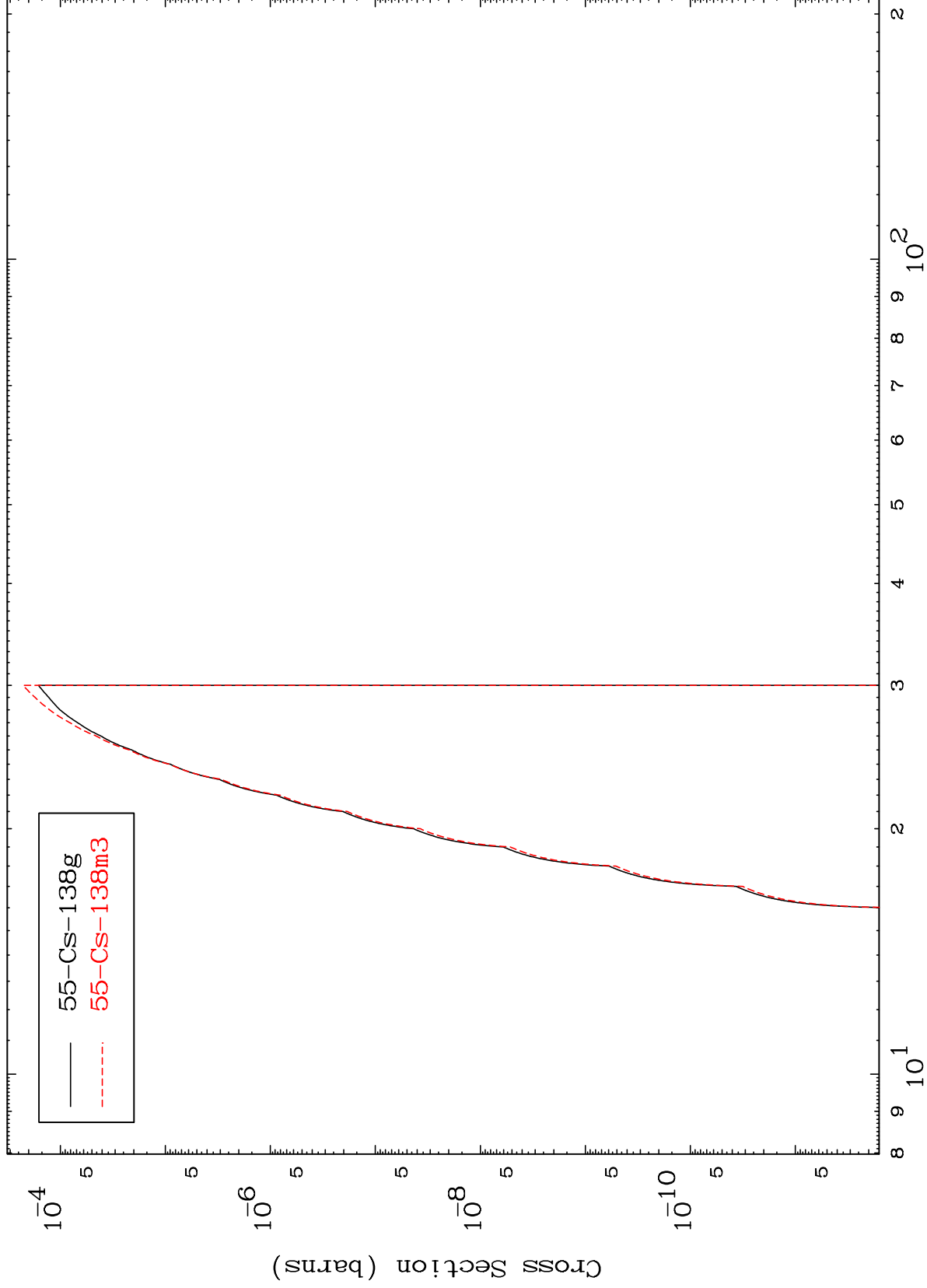
57-La-140

MAT 5731

(n,He-3)

57-La-140

Radionuclide Production Cross Section



115

Incident Energy (MeV)

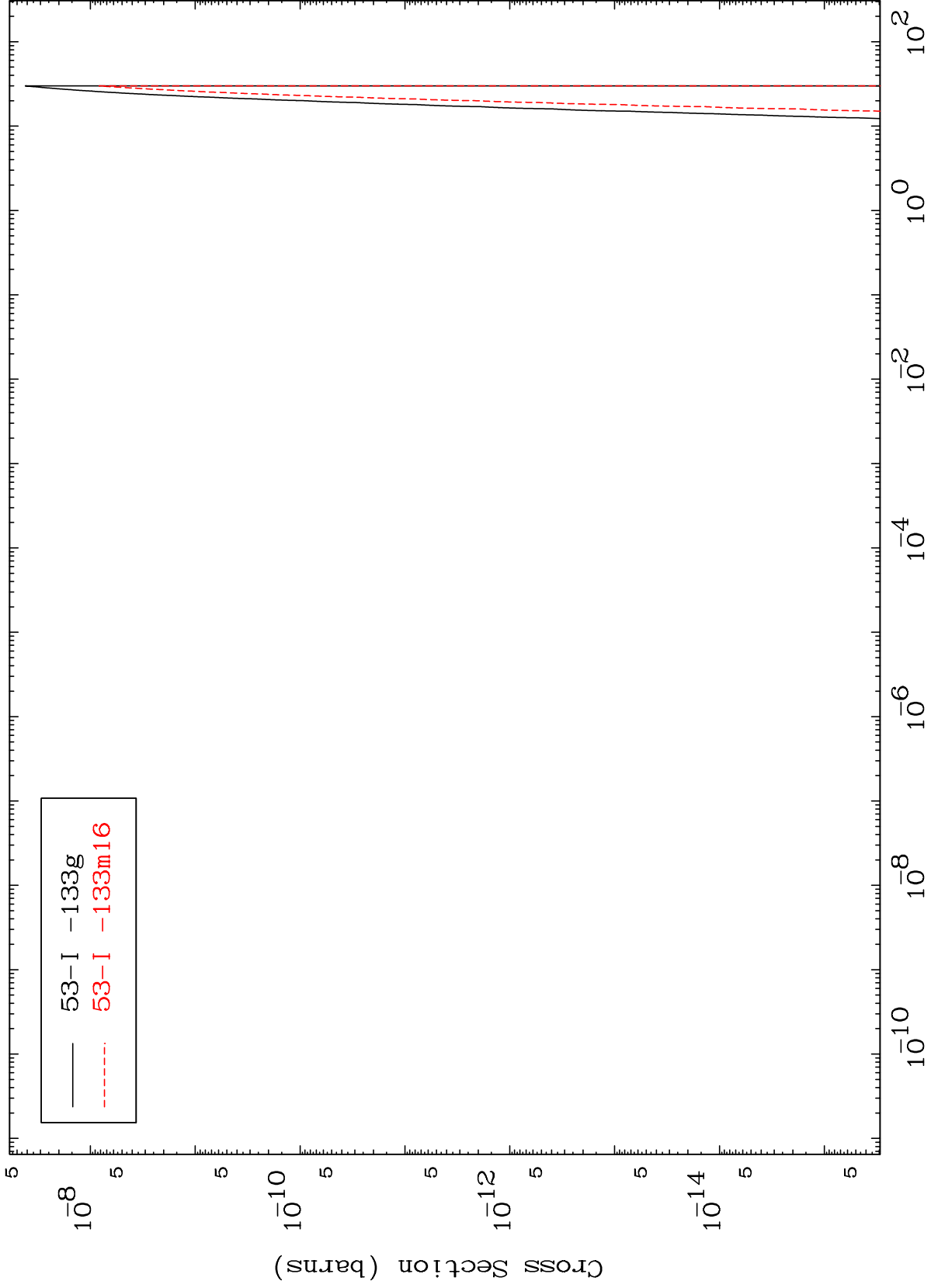
57-La-140

MAT 5731

(n,2α)

57-La-140

Radionuclide Production Cross Section



116

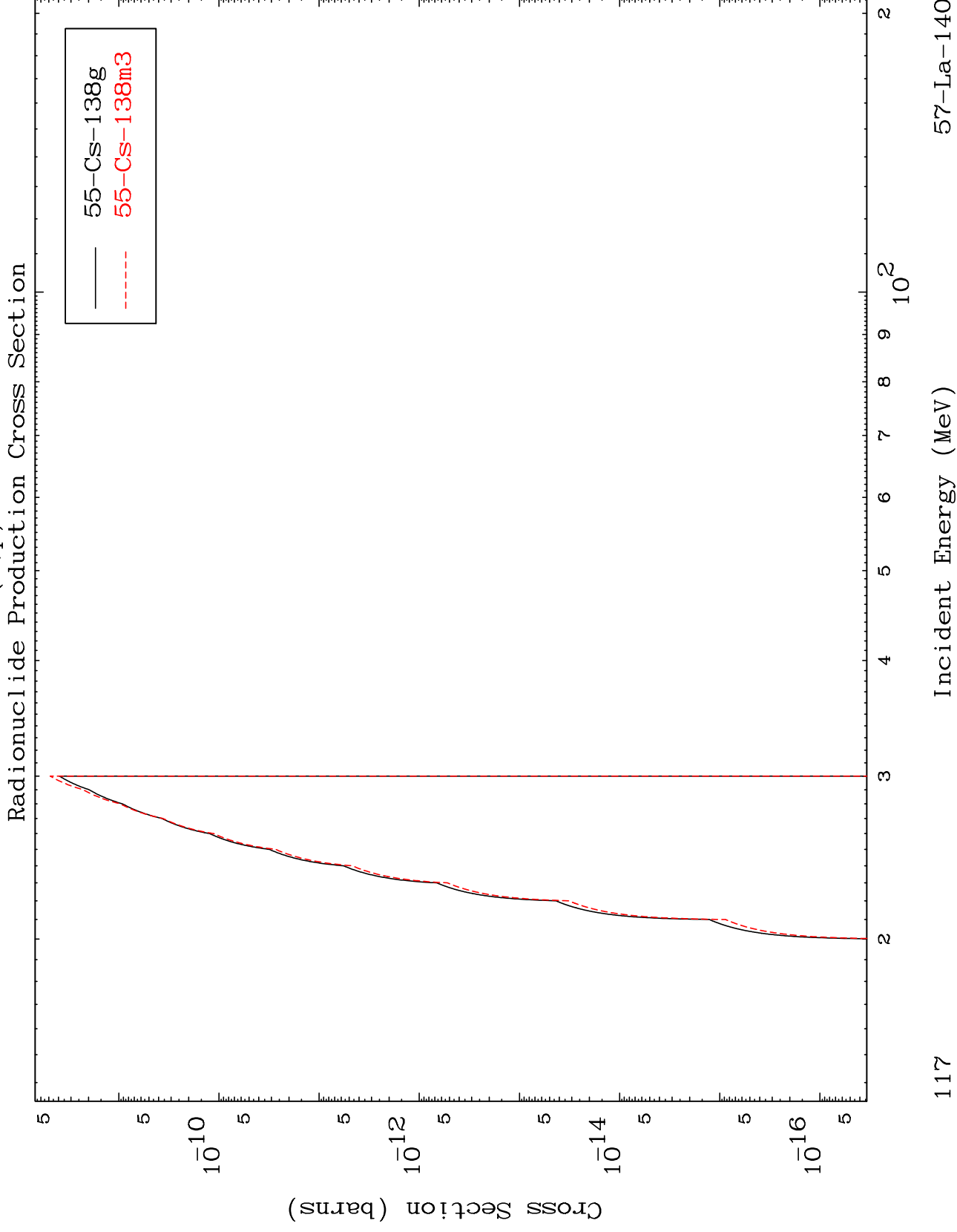
Incident Energy (MeV)

57-La-140

MAT 5731

(n,p) d

57-La-140



117

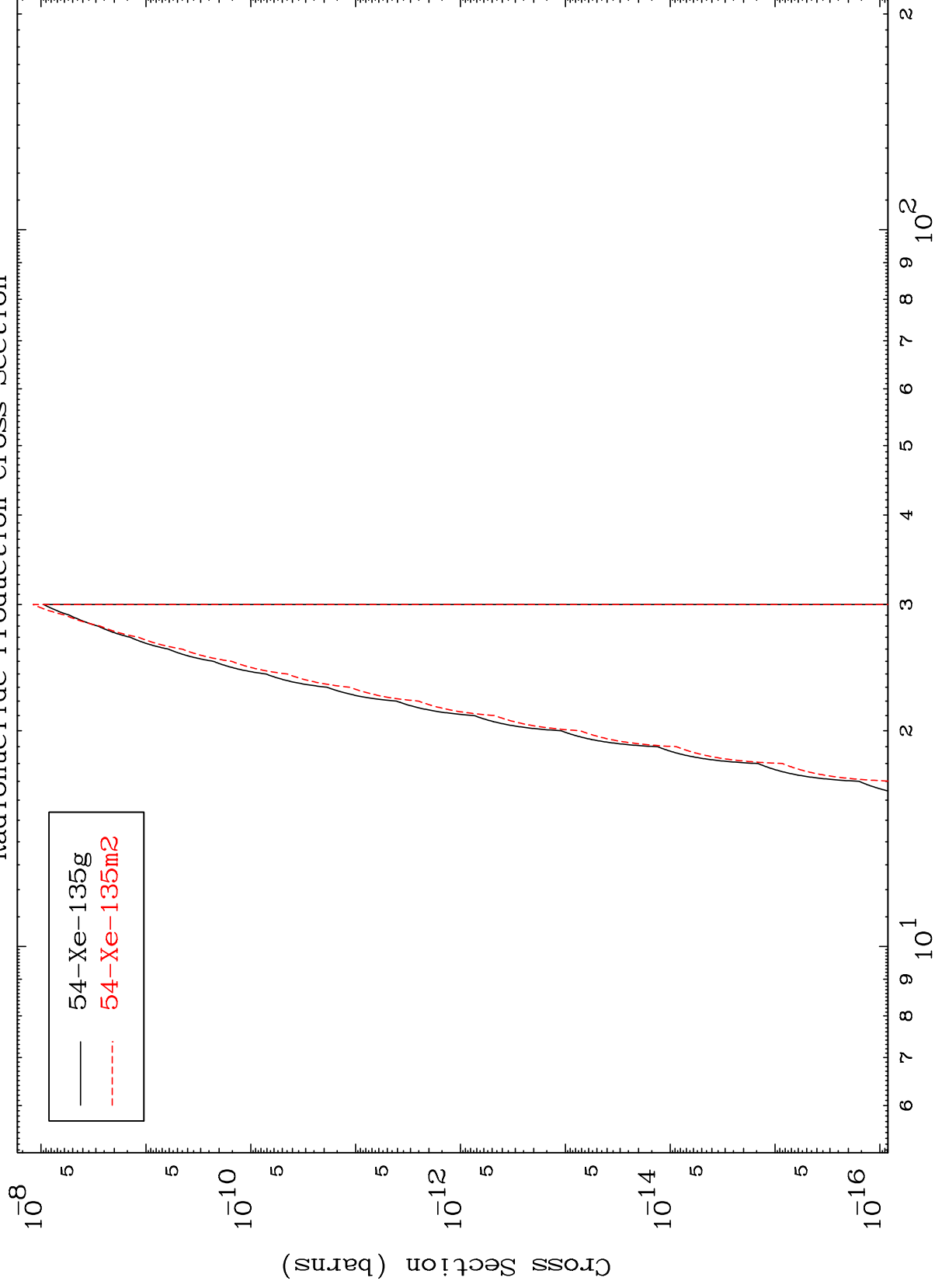
57-La-140

MAT 5731

57-La-140

(n,d) α

Radionuclide Production Cross Section



118

Incident Energy (MeV)

57-La-140