

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

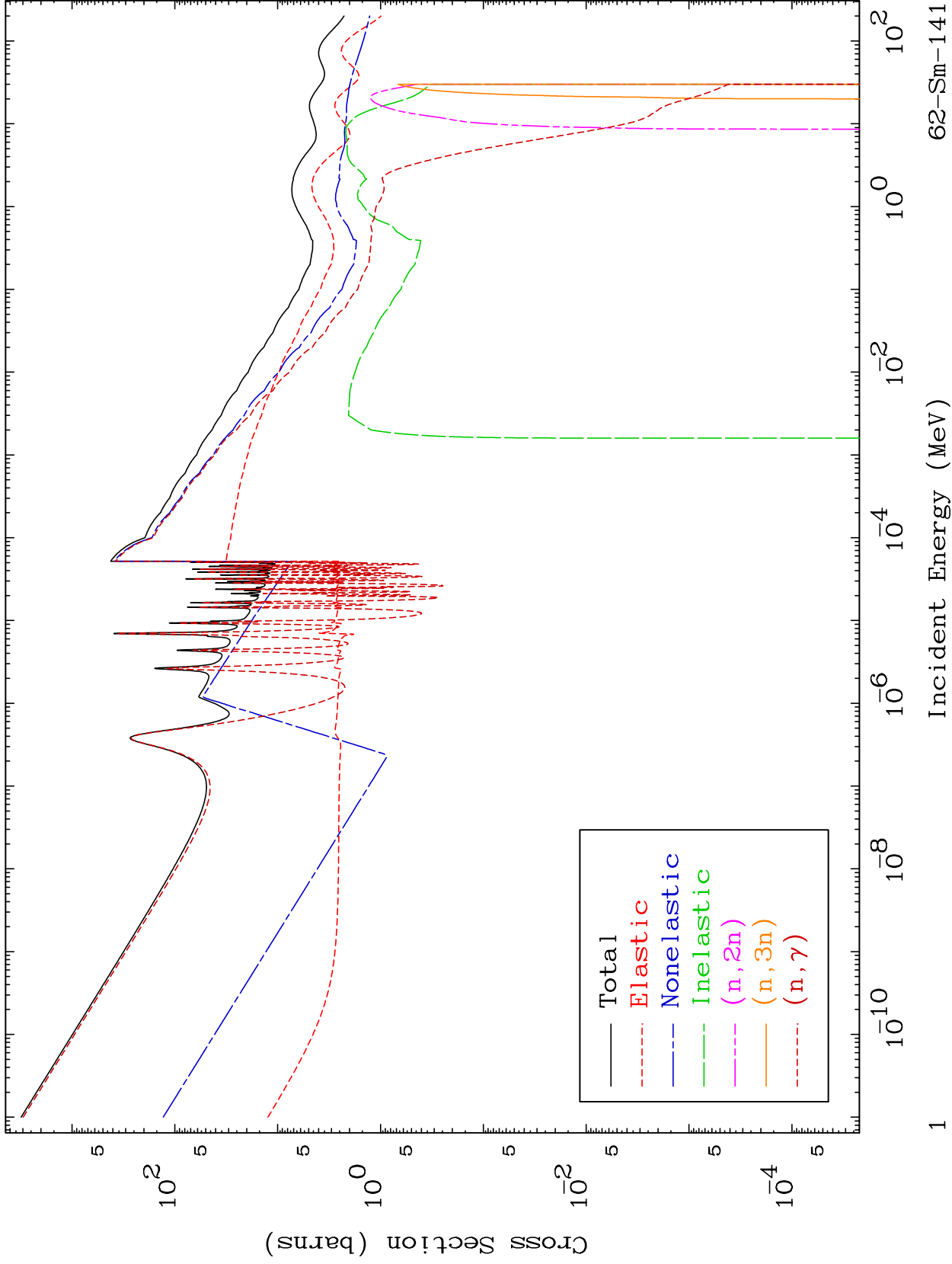
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6216

Neutron Major
293 Kelvin Cross Sections

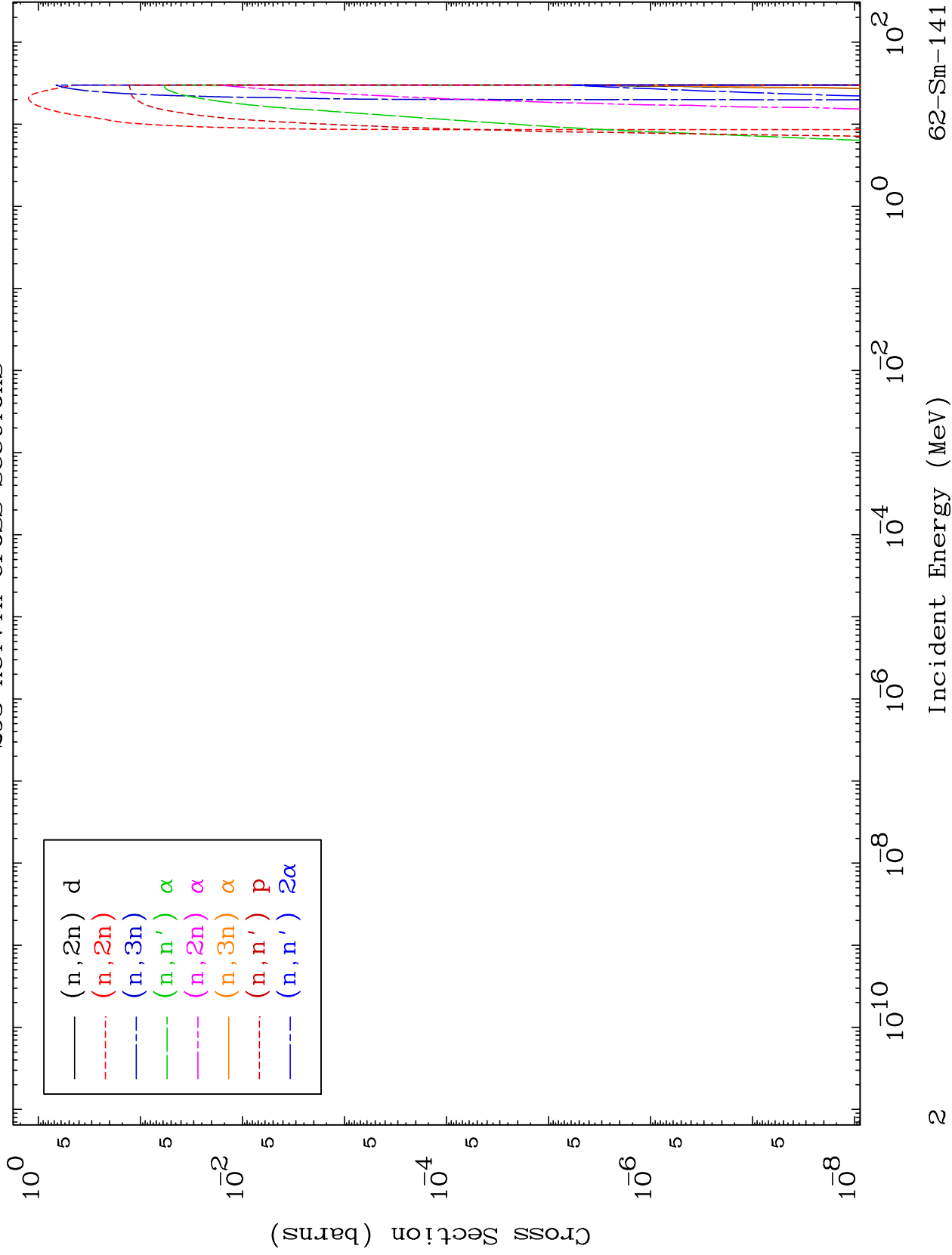
62-Sm-141



MAT 6216

Neutron Absorption
293 Kelvin Cross Sections

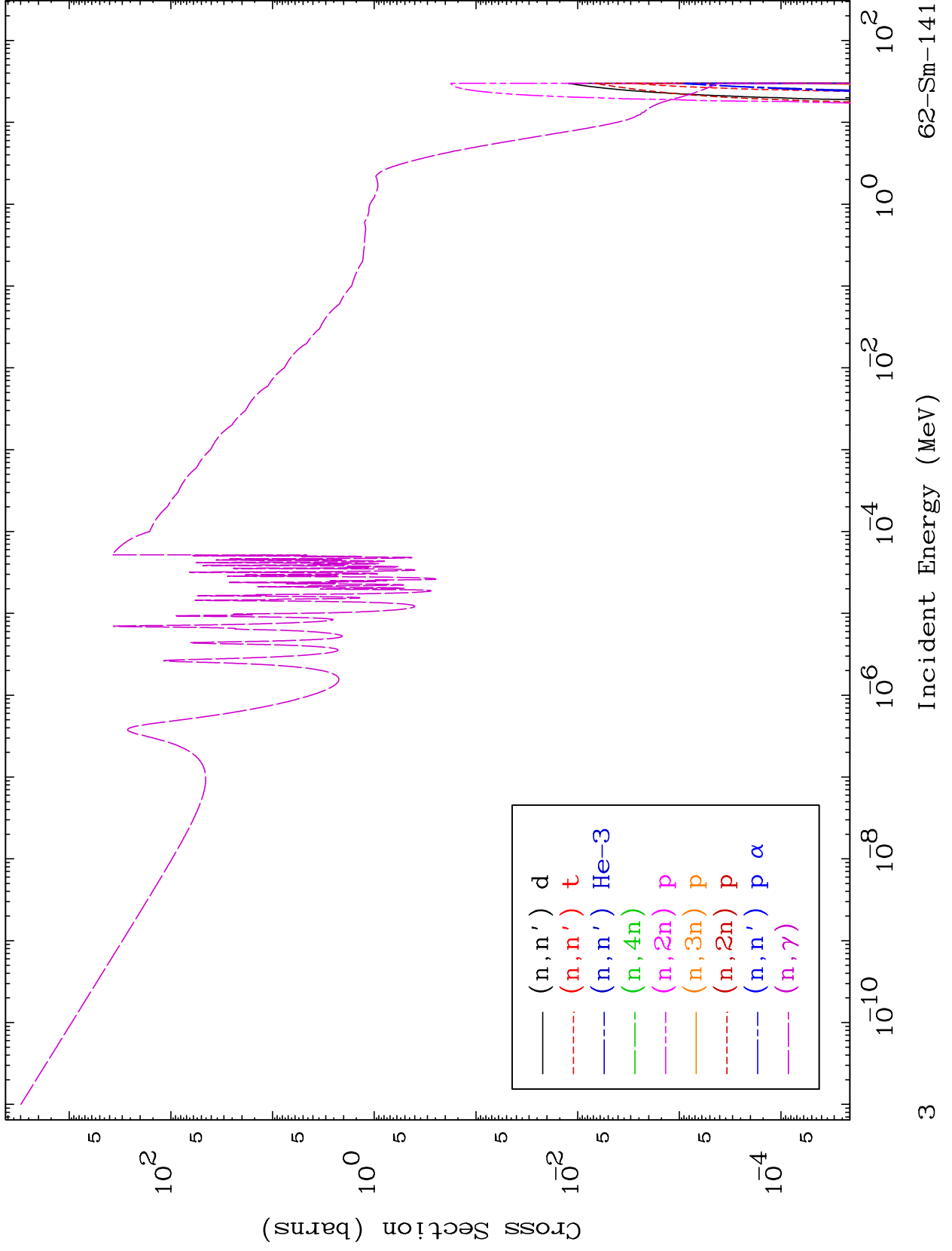
62-Sm-141



MAT 6216

Neutron Absorption
293 Kelvin Cross Sections

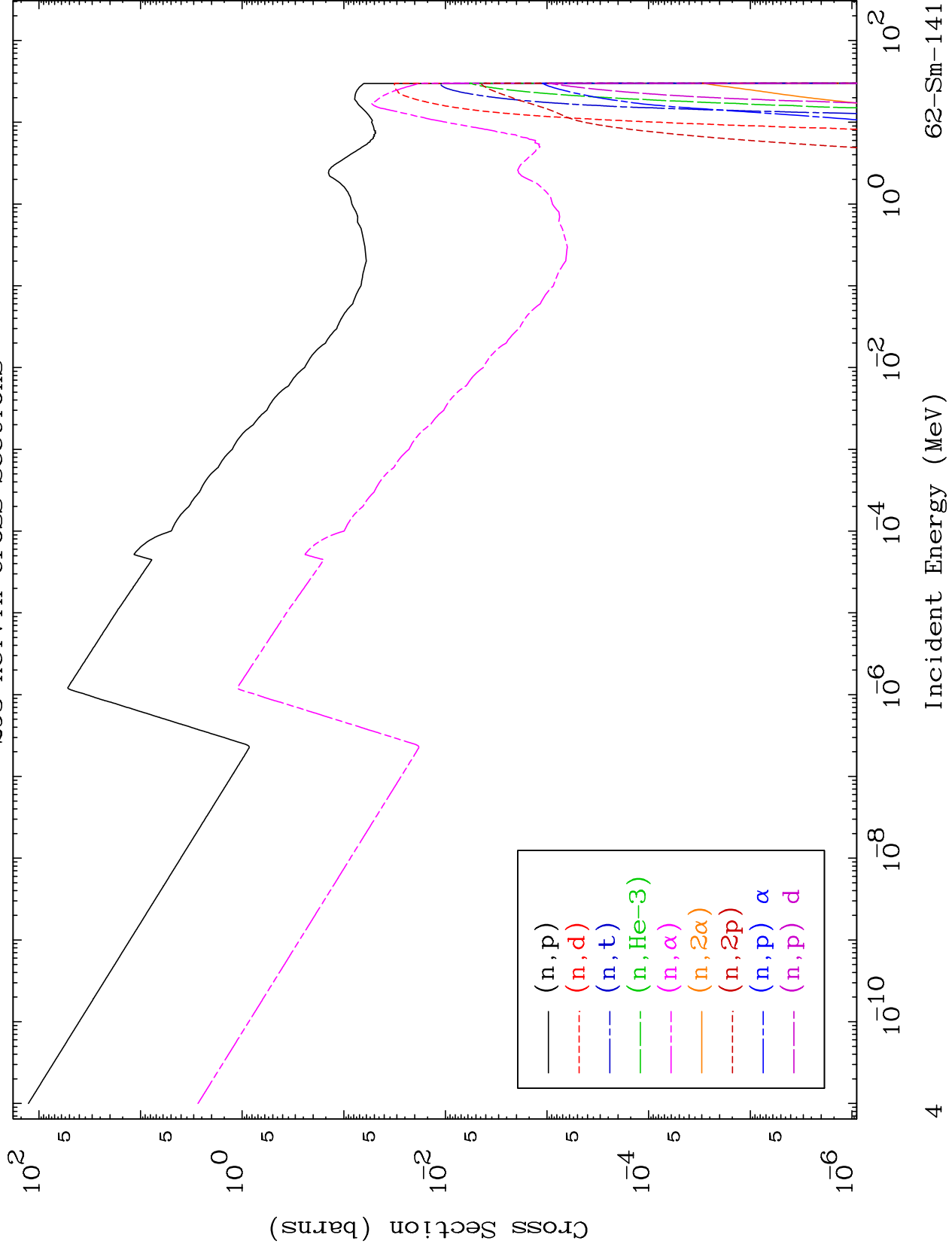
62-Sm-141



MAT 6216

Neutron Absorption
293 Kelvin Cross Sections

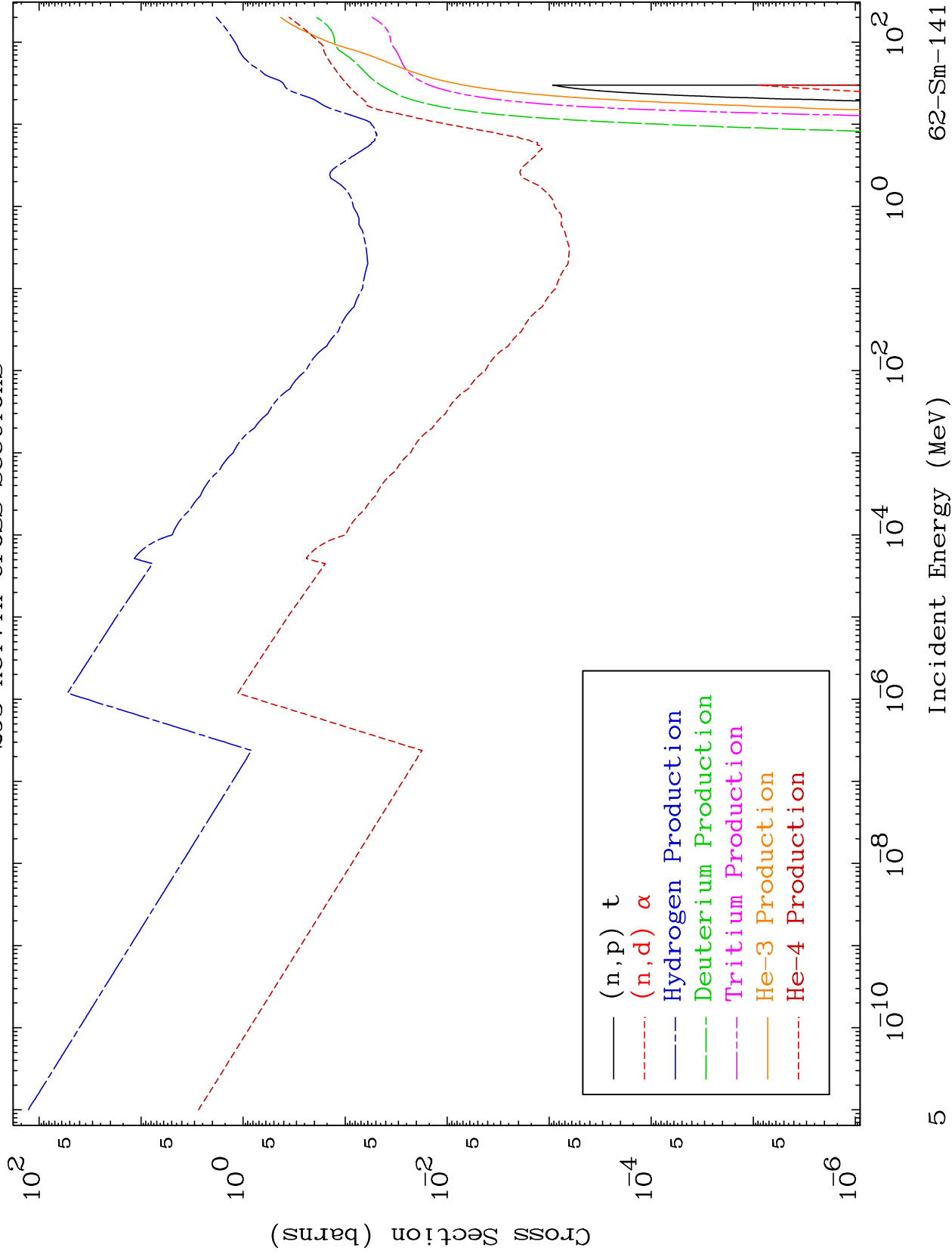
62-Sm-141



MAT 6216

Neutron Absorption
293 Kelvin Cross Sections

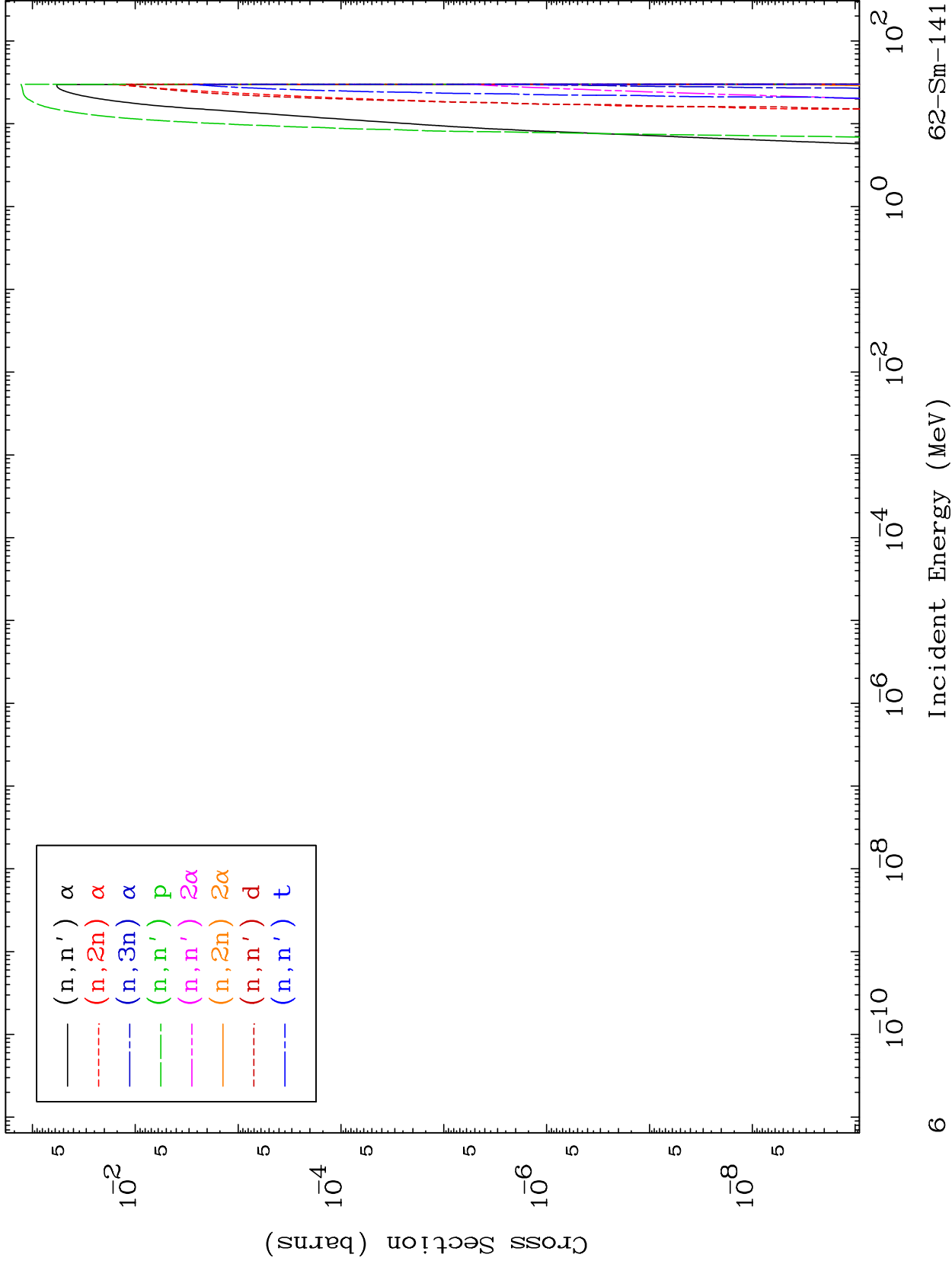
62-Sm-141



MAT 6216

Charged Particle
293 Kelvin Cross Sections

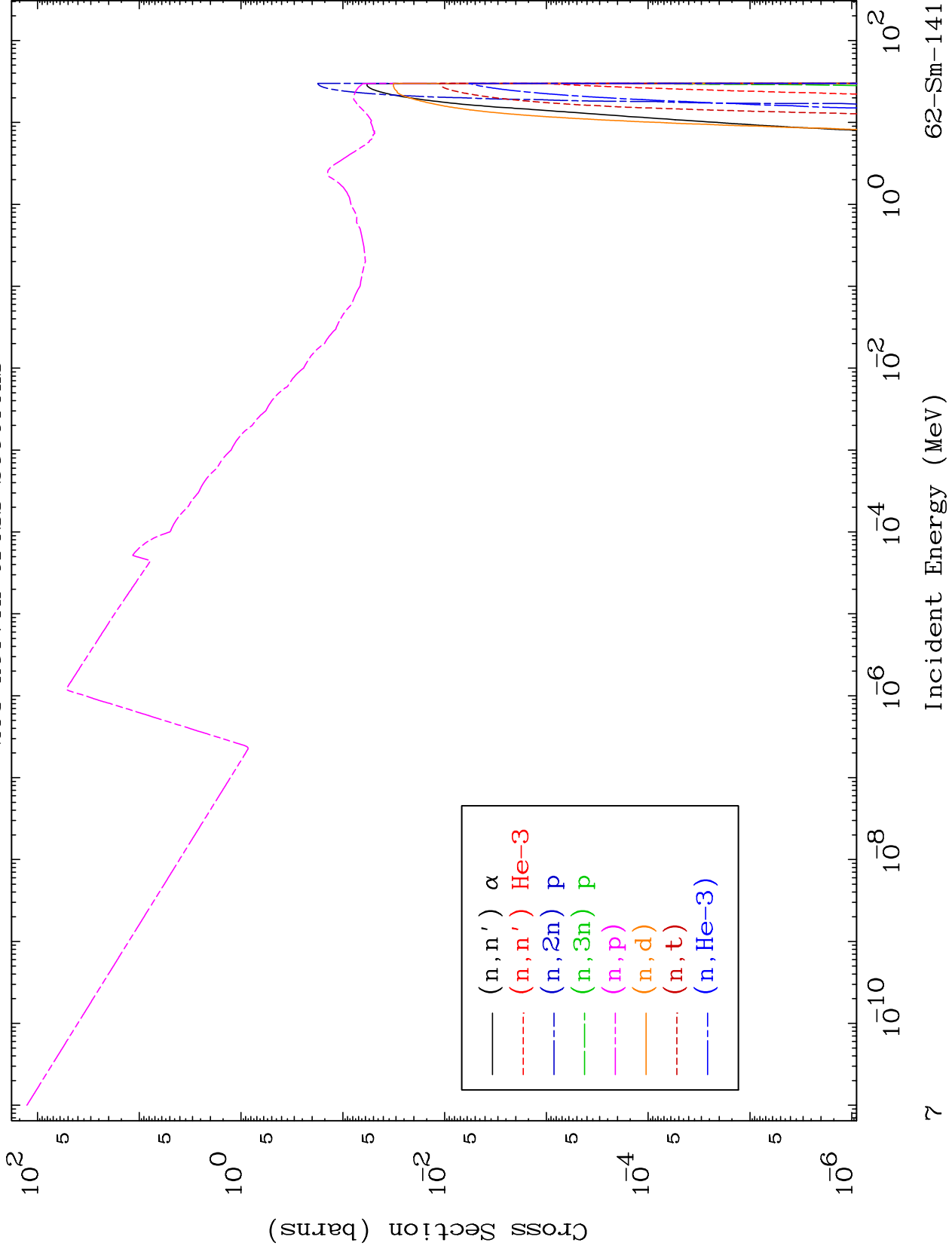
62-Sm-141



MAT 6216

Charged Particle
293 Kelvin Cross Sections

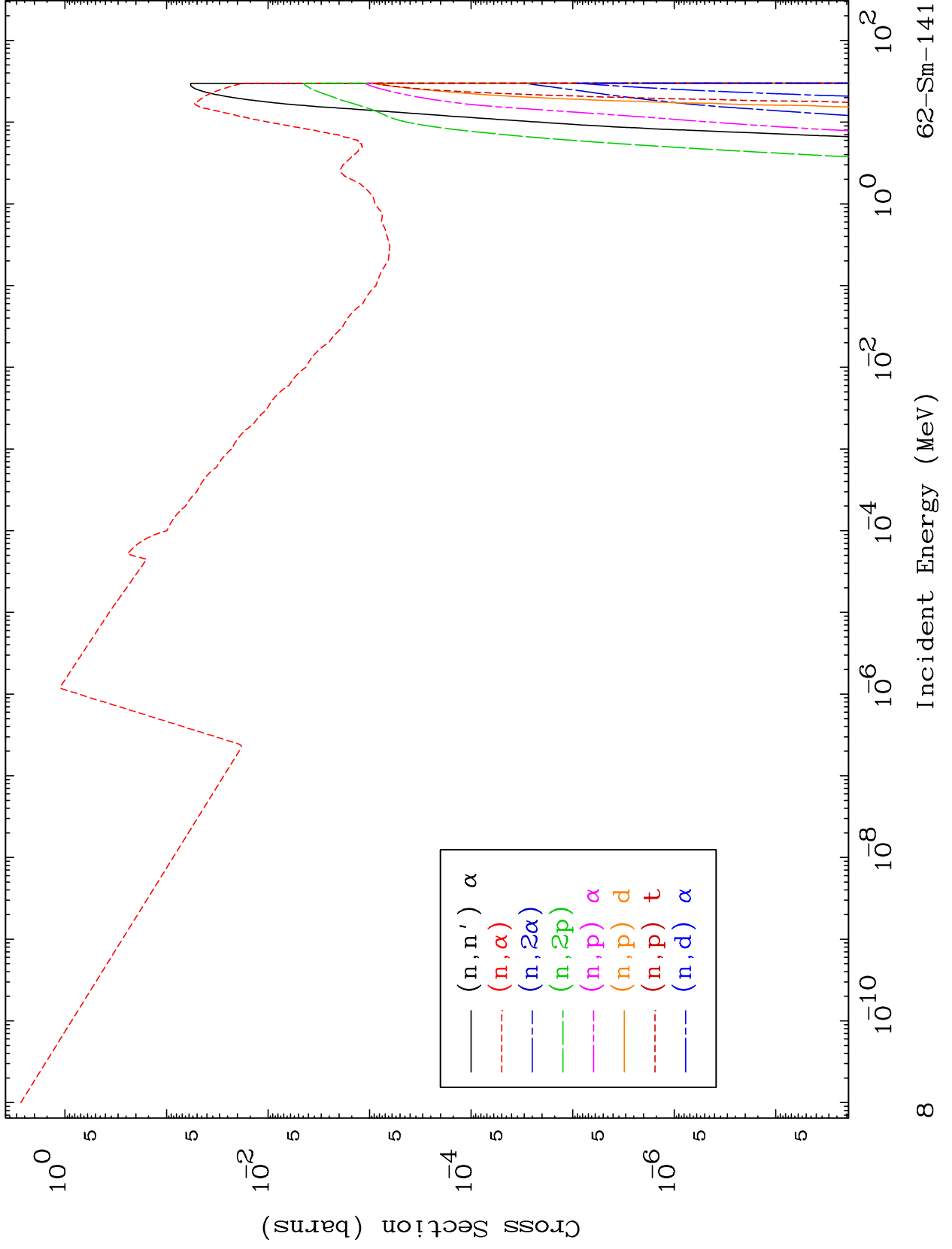
62-Sm-141



MAT 6216

Charged Particle
293 Kelvin Cross Sections

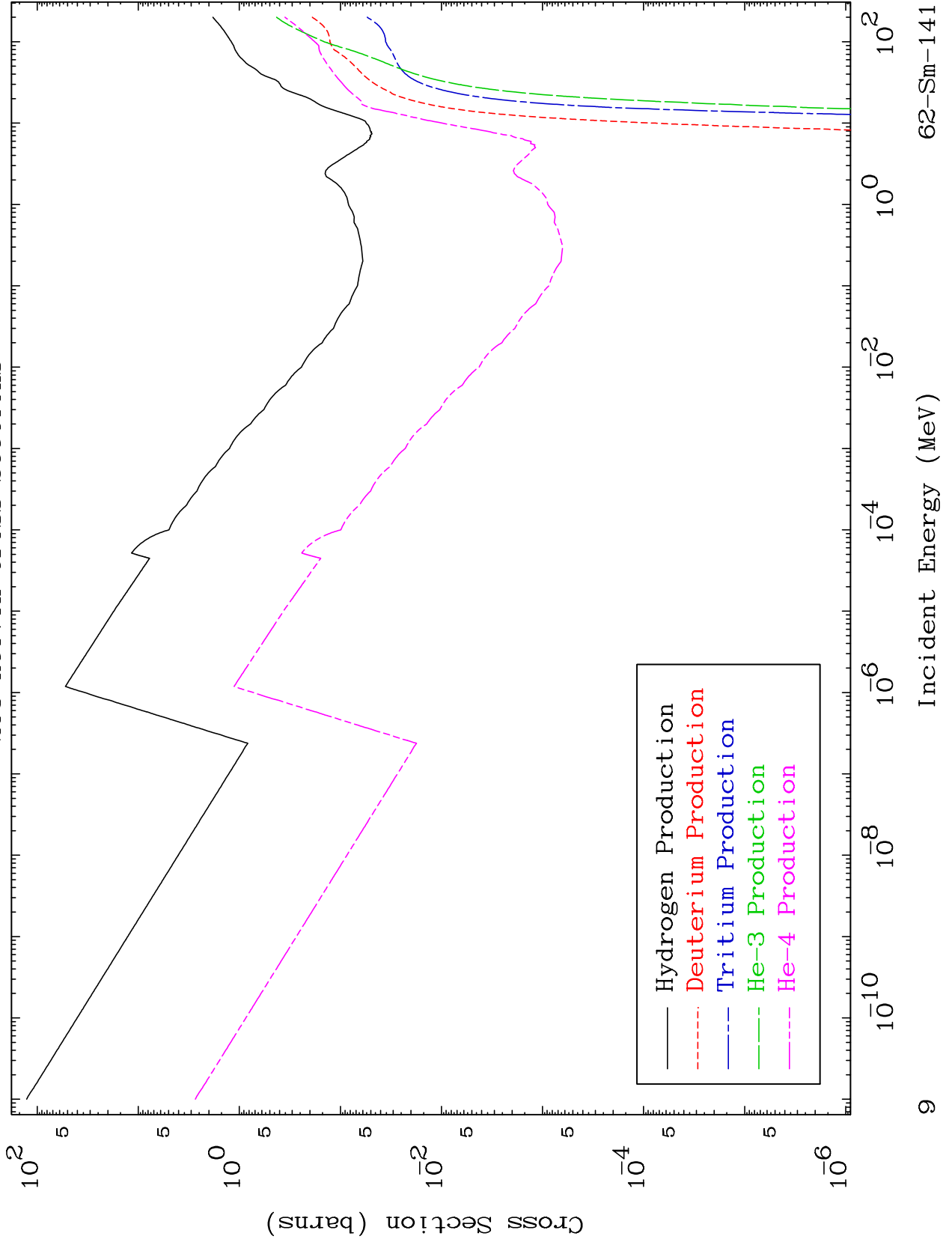
62-Sm-141



MAT 6216

Particle Production
293 Kelvin Cross Sections

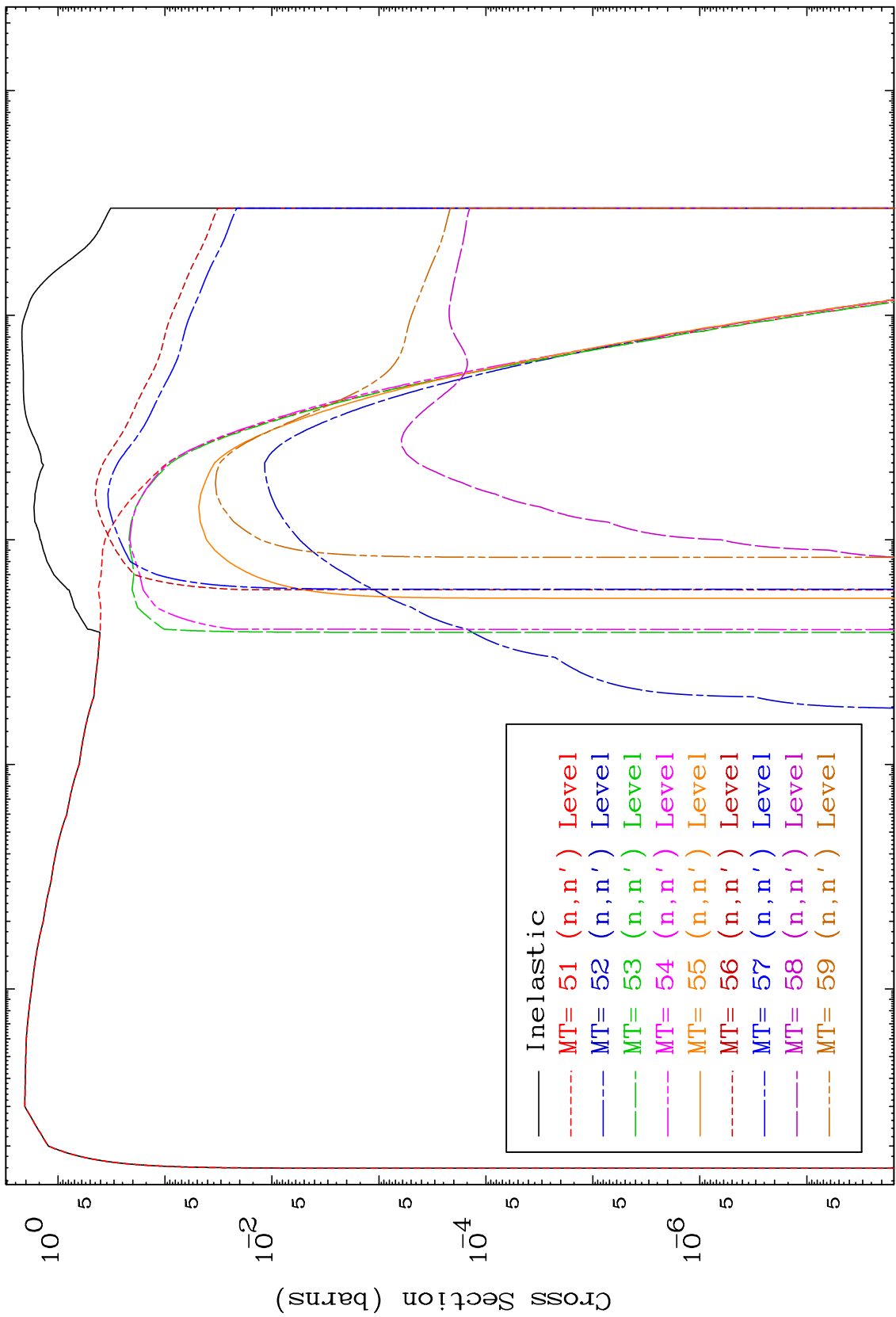
62-Sm-141



MAT 6216

62-Sm-141

(n,n') Levels
293 Kelvin Cross Sections



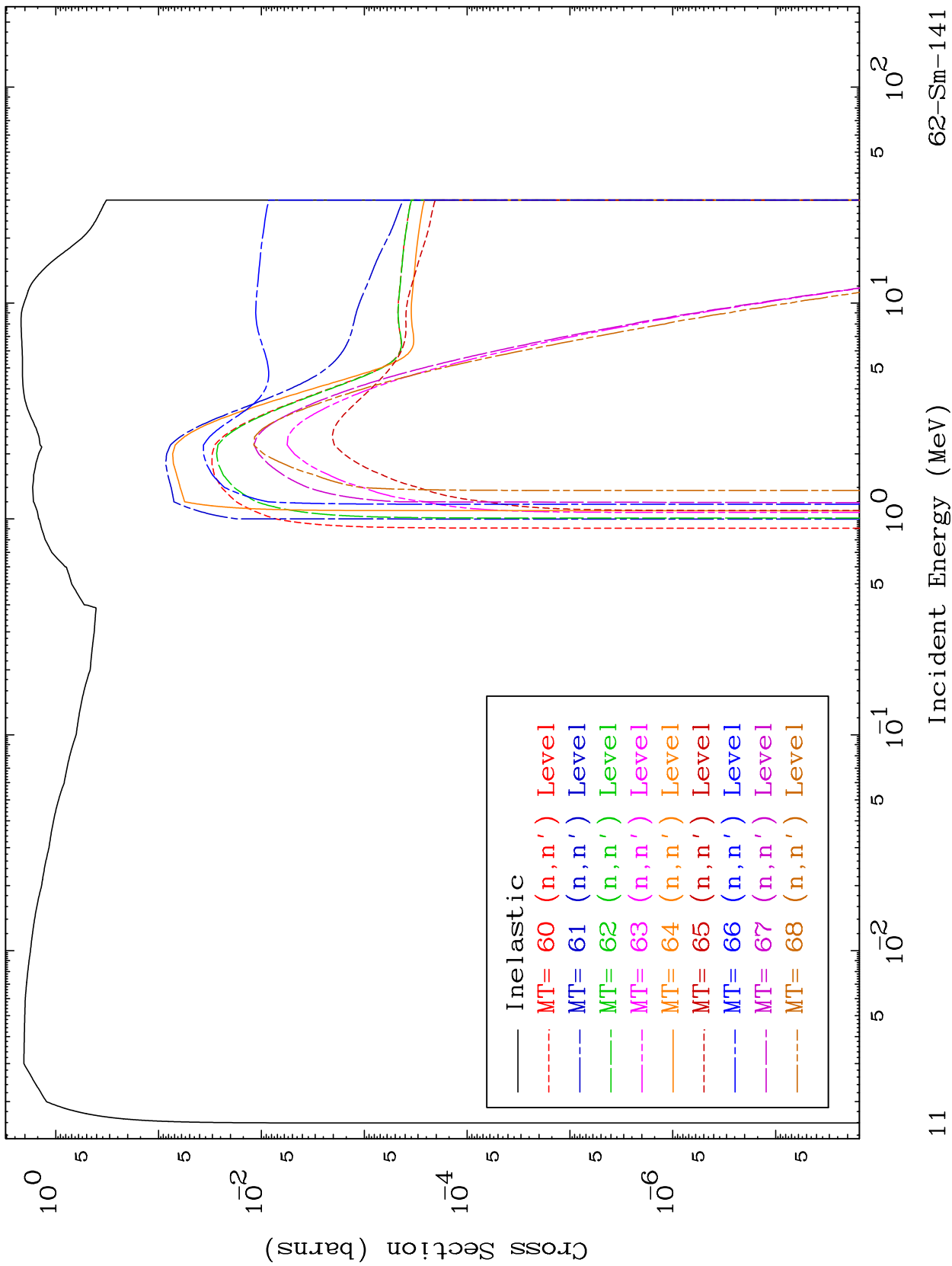
10

62-Sm-141

MAT 6216

62-Sm-141

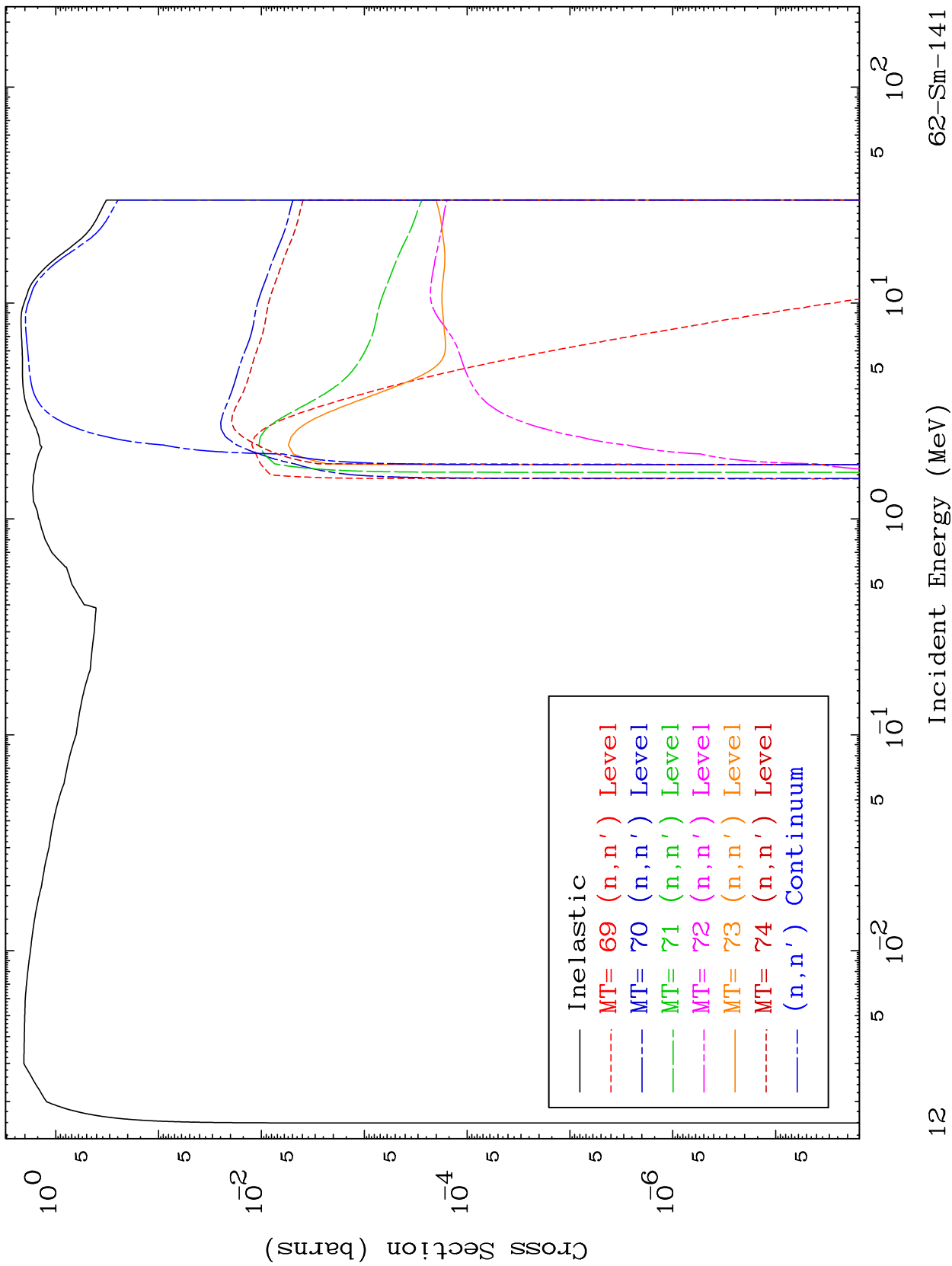
(n,n') Levels
293 Kelvin Cross Sections



MAT 6216

62-Sm-141

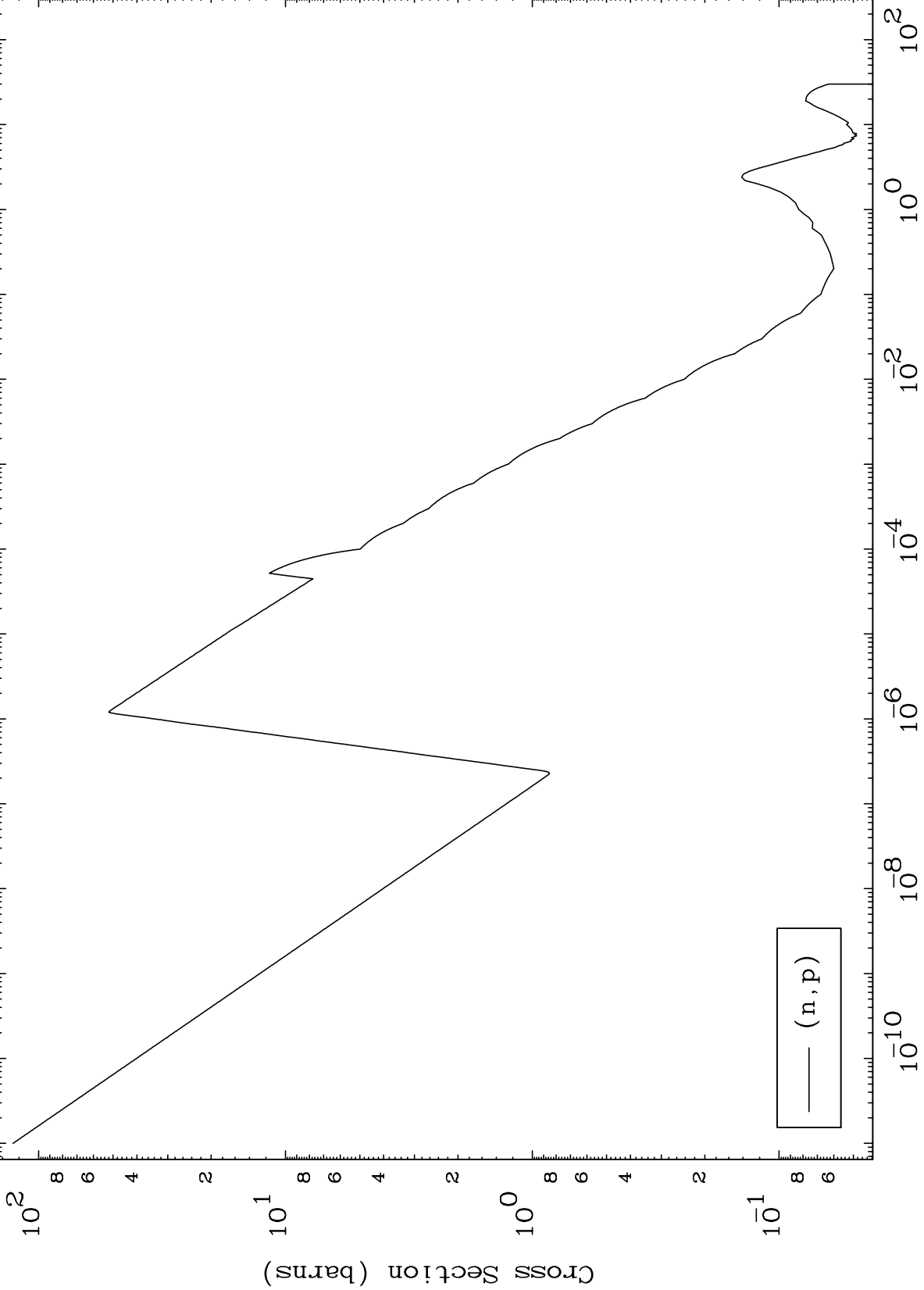
(n,n') Levels
293 Kelvin Cross Sections



MAT 6216

(n,p) Levels
293 Kelvin Cross Sections

62-Sm-141



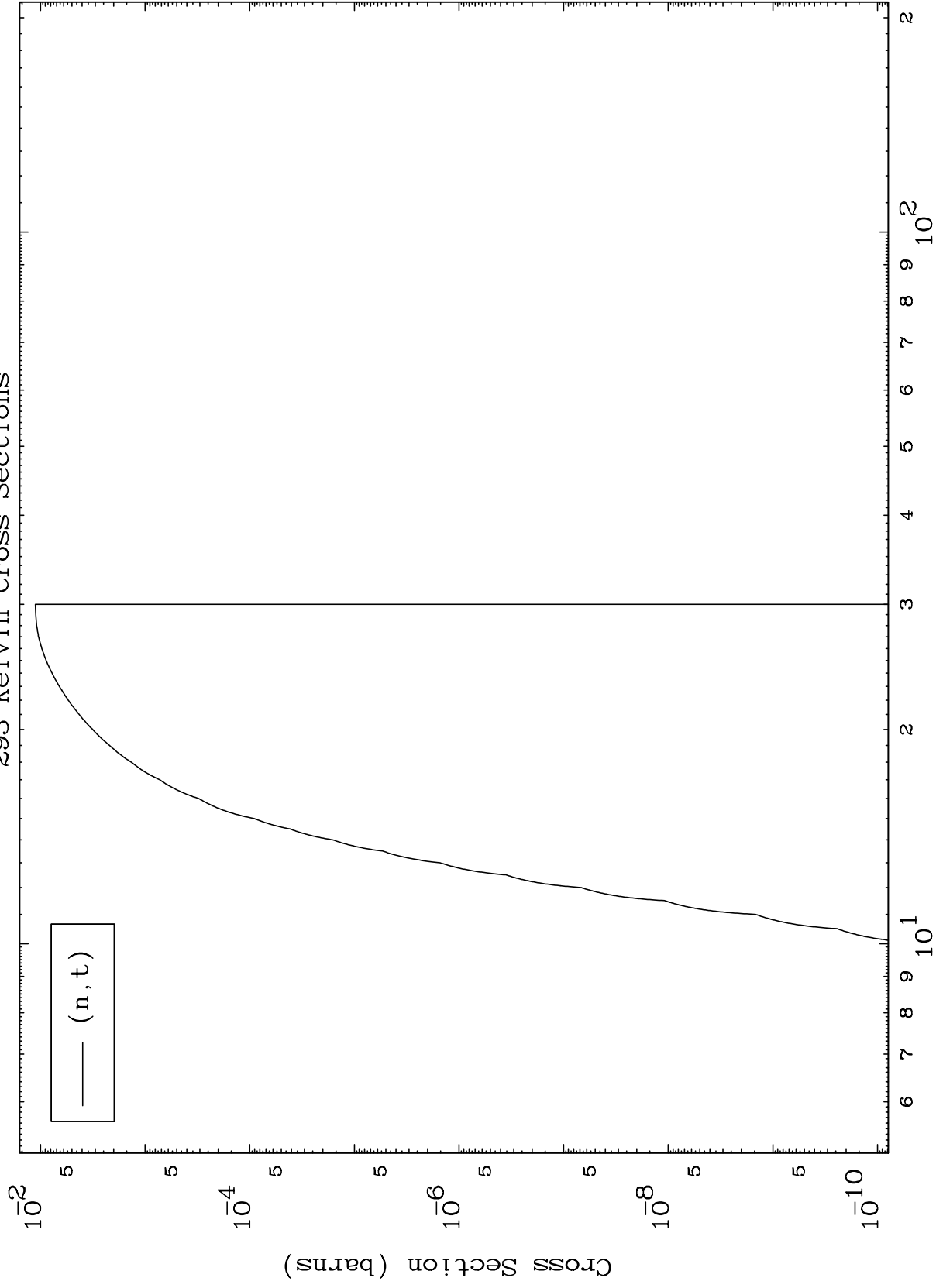
(n,p)

62-Sm-141

MAT 6216

(n,t) Levels
293 Kelvin Cross Sections

62-Sm-141



15

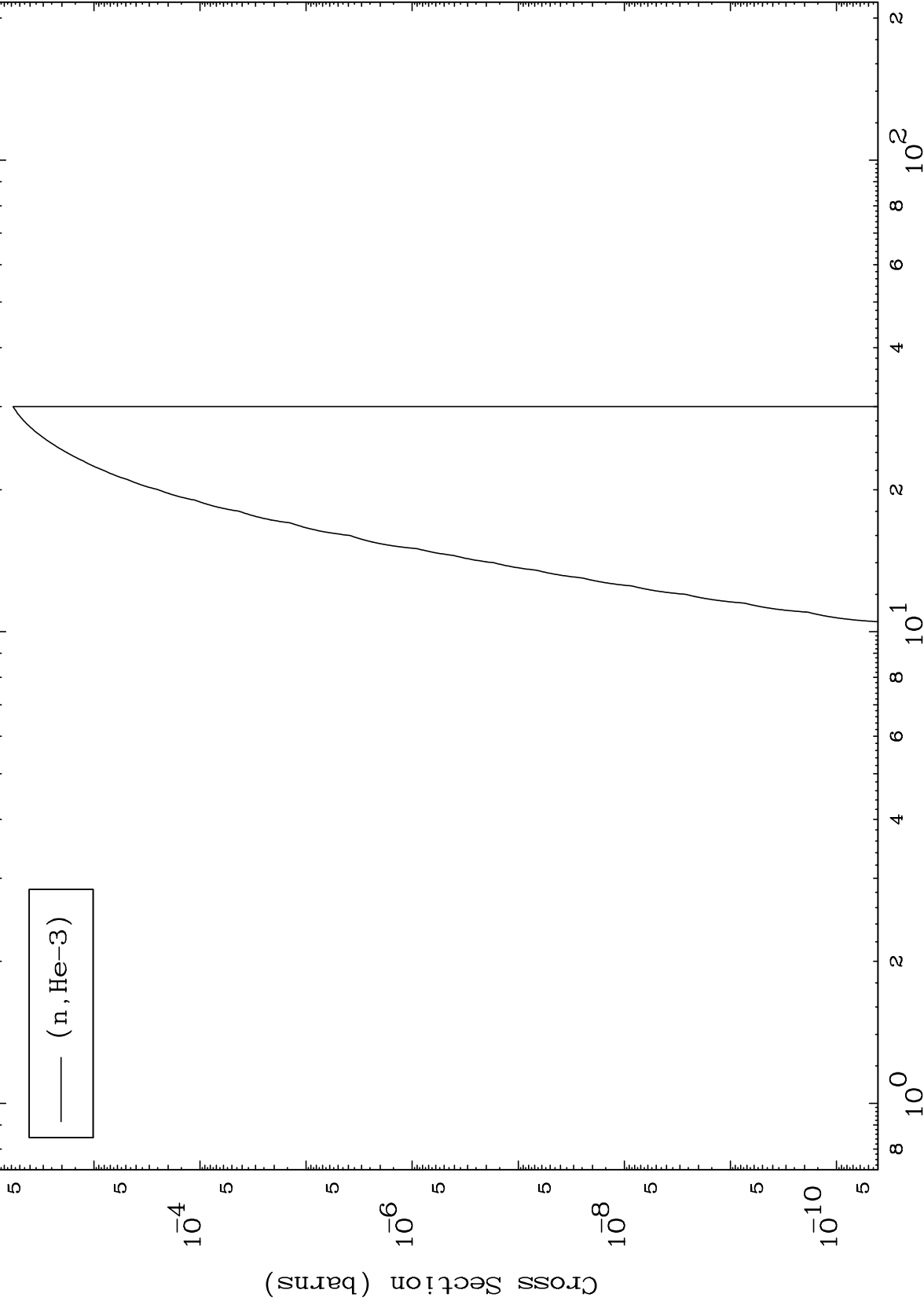
Incident Energy (MeV)

62-Sm-141

MAT 6216

(n,He3) Levels
293 Kelvin Cross Sections

62-Sm-141



(n, He-3)

16

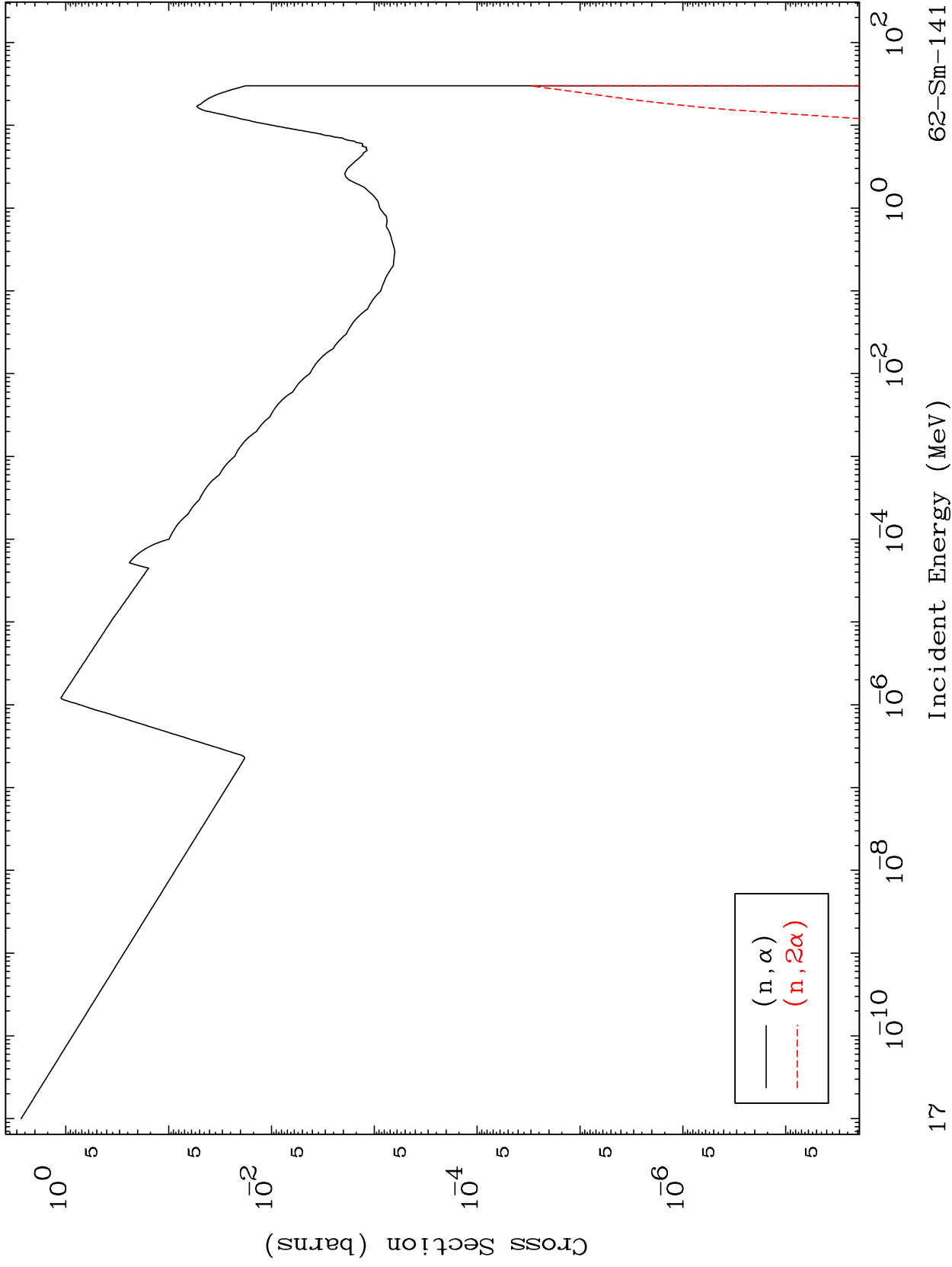
Incident Energy (MeV)

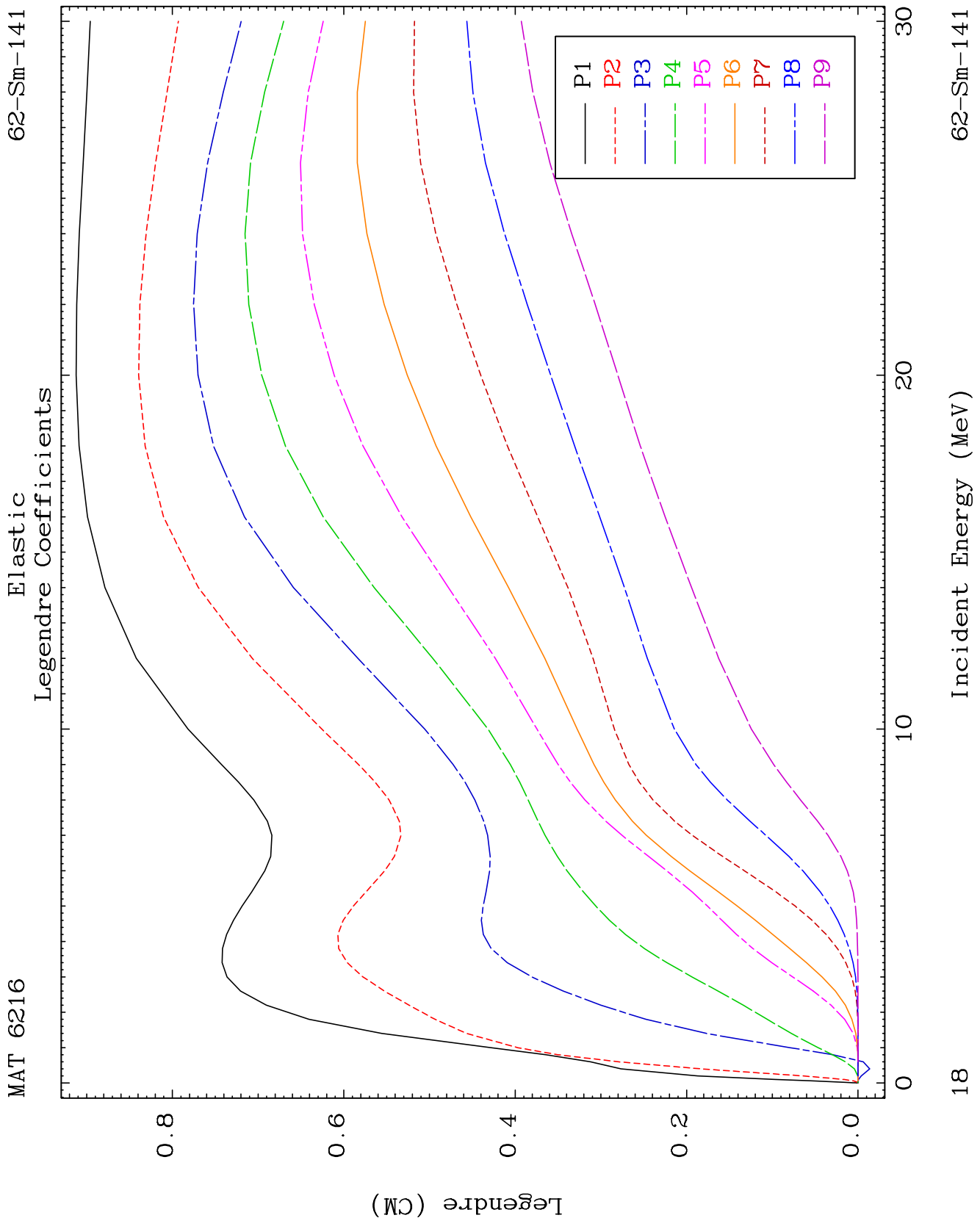
62-Sm-141

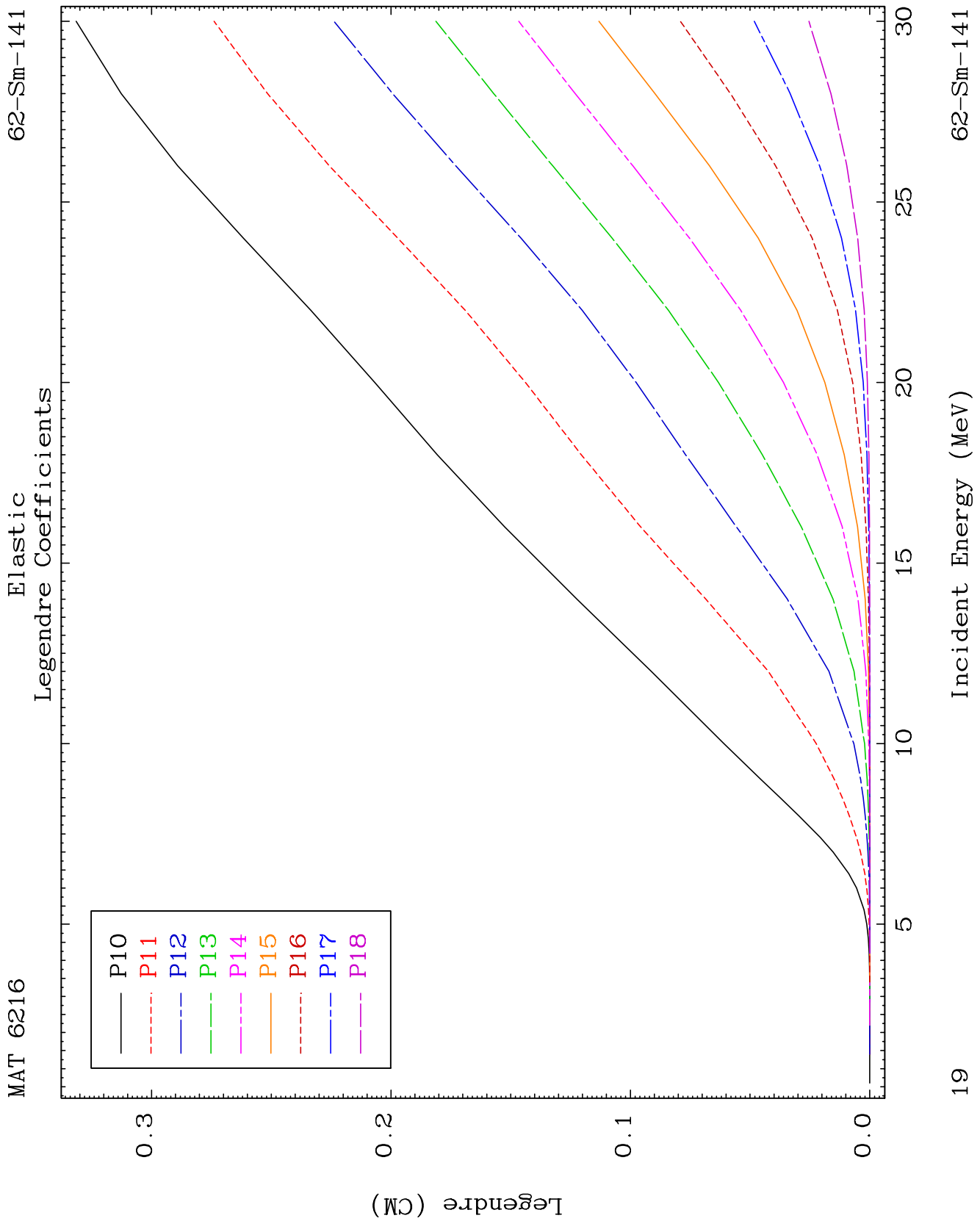
MAT 6216

(n, α) Levels
293 Kelvin Cross Sections

62-Sm-141







MAT 6216

Elastic Legendre Coefficients

$^{62}\text{Sm}-^{141}$

19

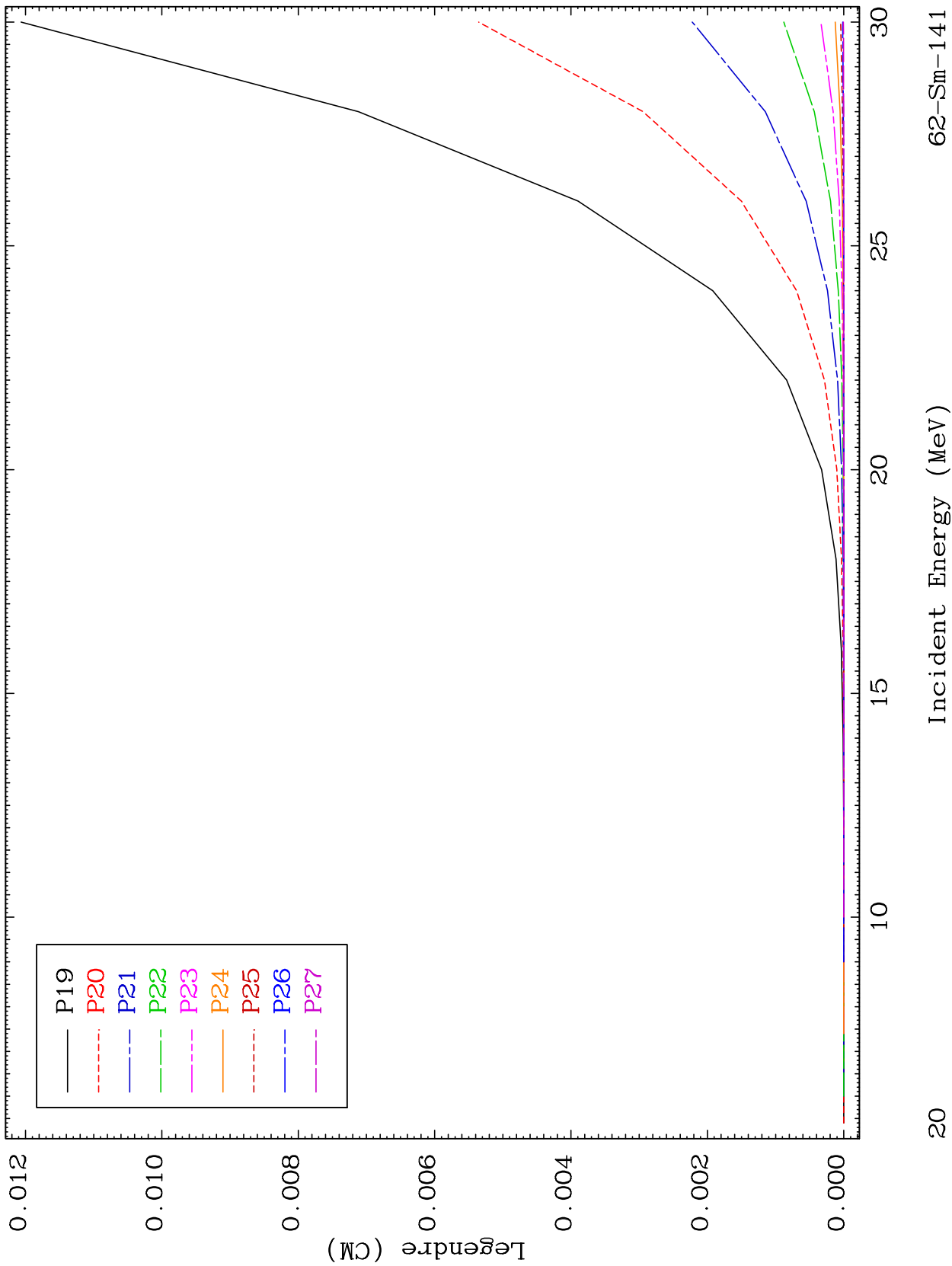
Incident Energy (MeV)

$^{62}\text{Sm}-^{141}$

MAT 6216

Elastic Legendre Coefficients

62-Sm-141



20

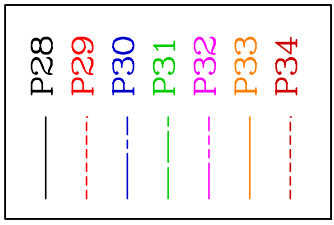
Incident Energy (MeV)

62-Sm-141

MAT 6216

Elastic Legendre Coefficients

62-Sm-141



$\times 10^{-6}$

1.2

0.8

0.4

0.0

Legendre (CM)

15

20

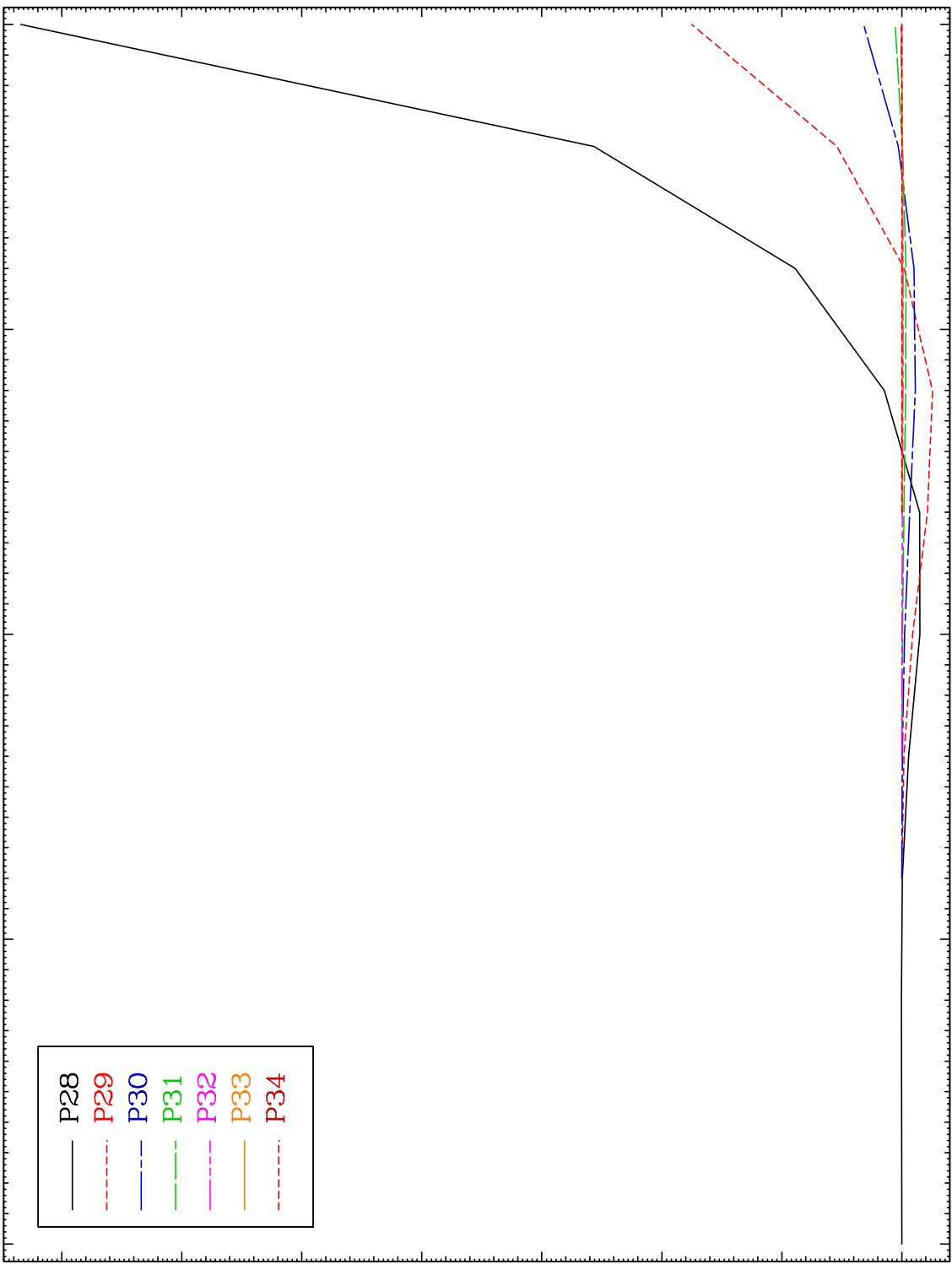
25

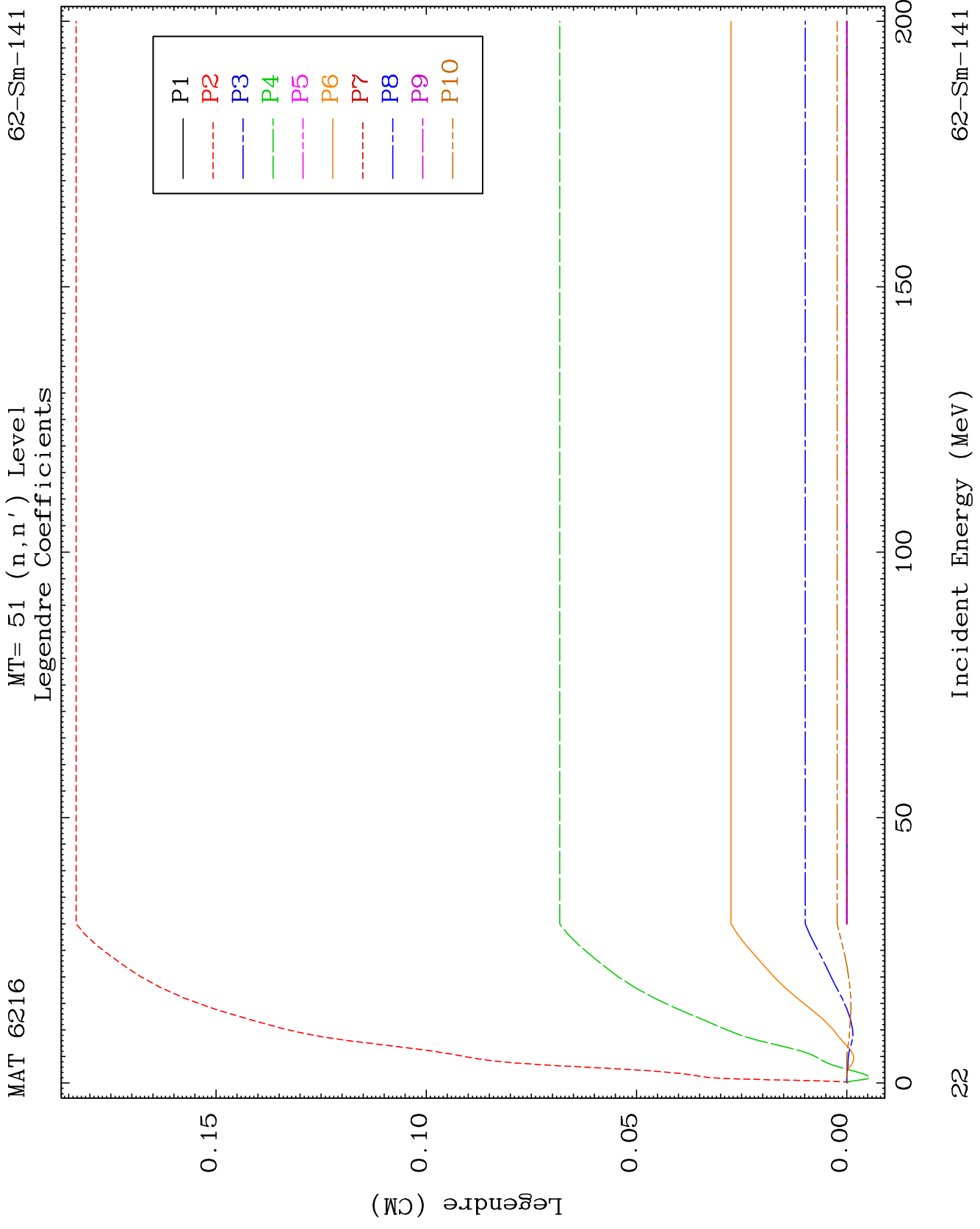
30

21

Incident Energy (MeV)

62-Sm-141

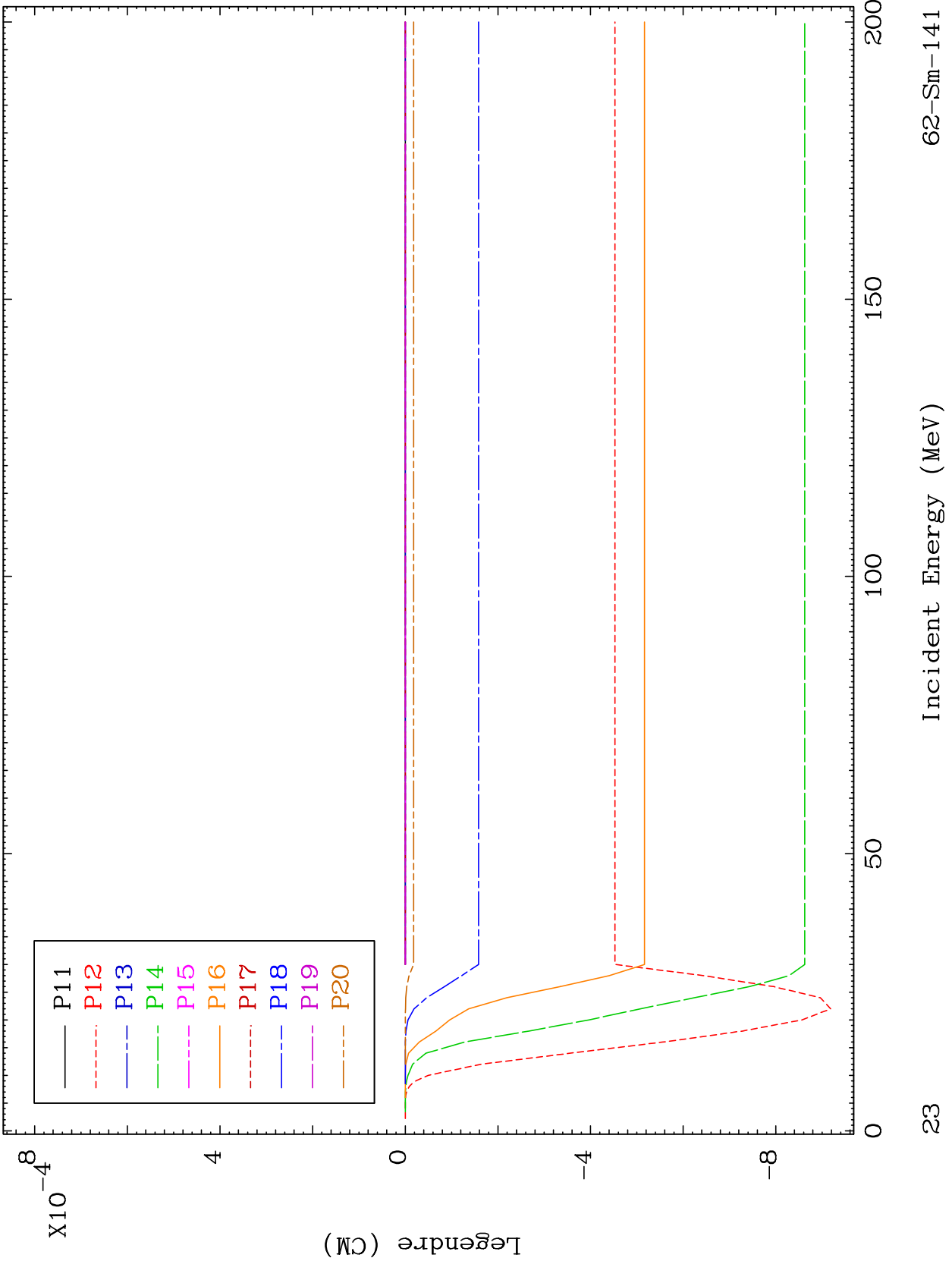




MAT 6216

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

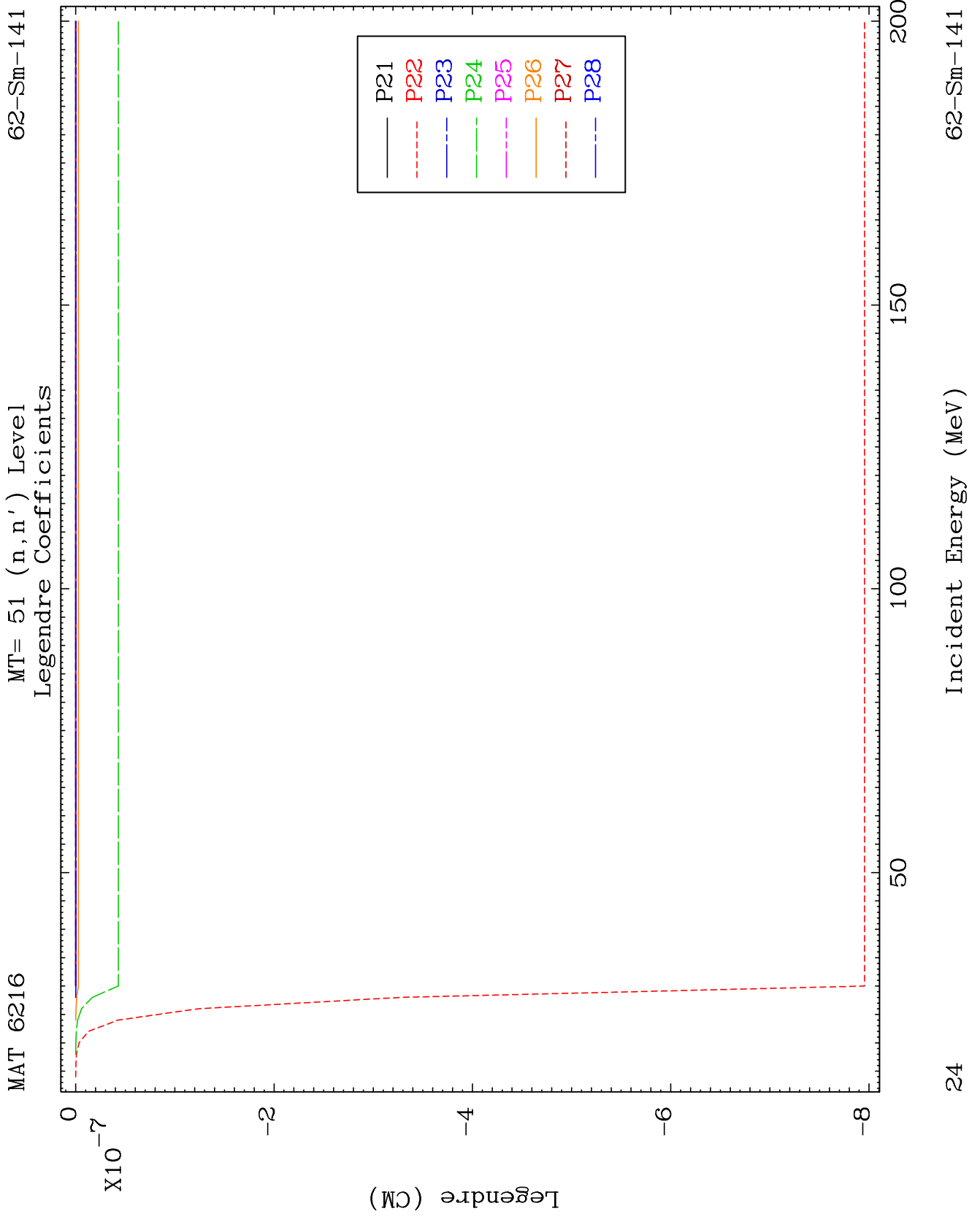
62-Sm-141



23

Incident Energy (MeV)

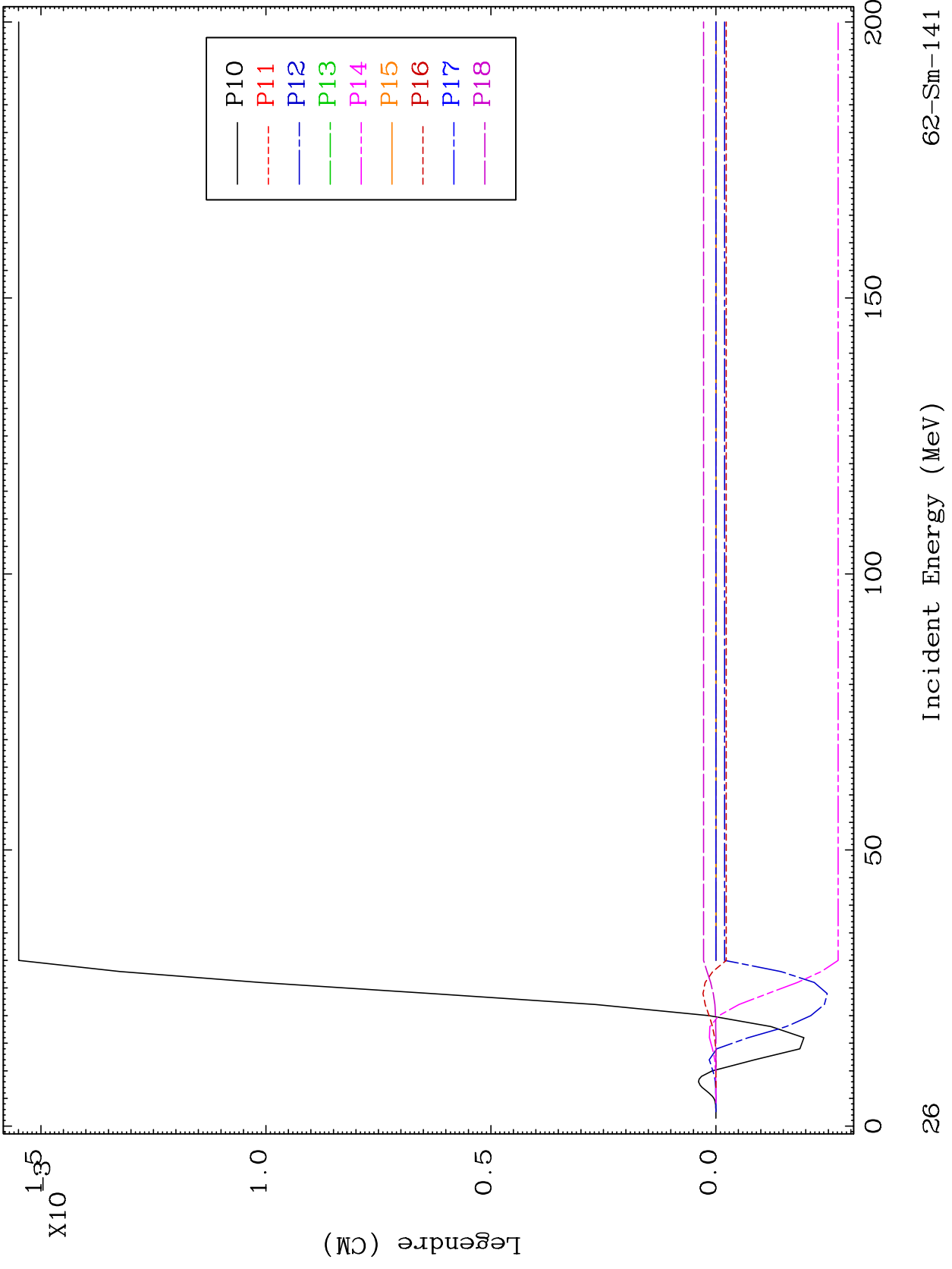
62-Sm-141



MAT 6216

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

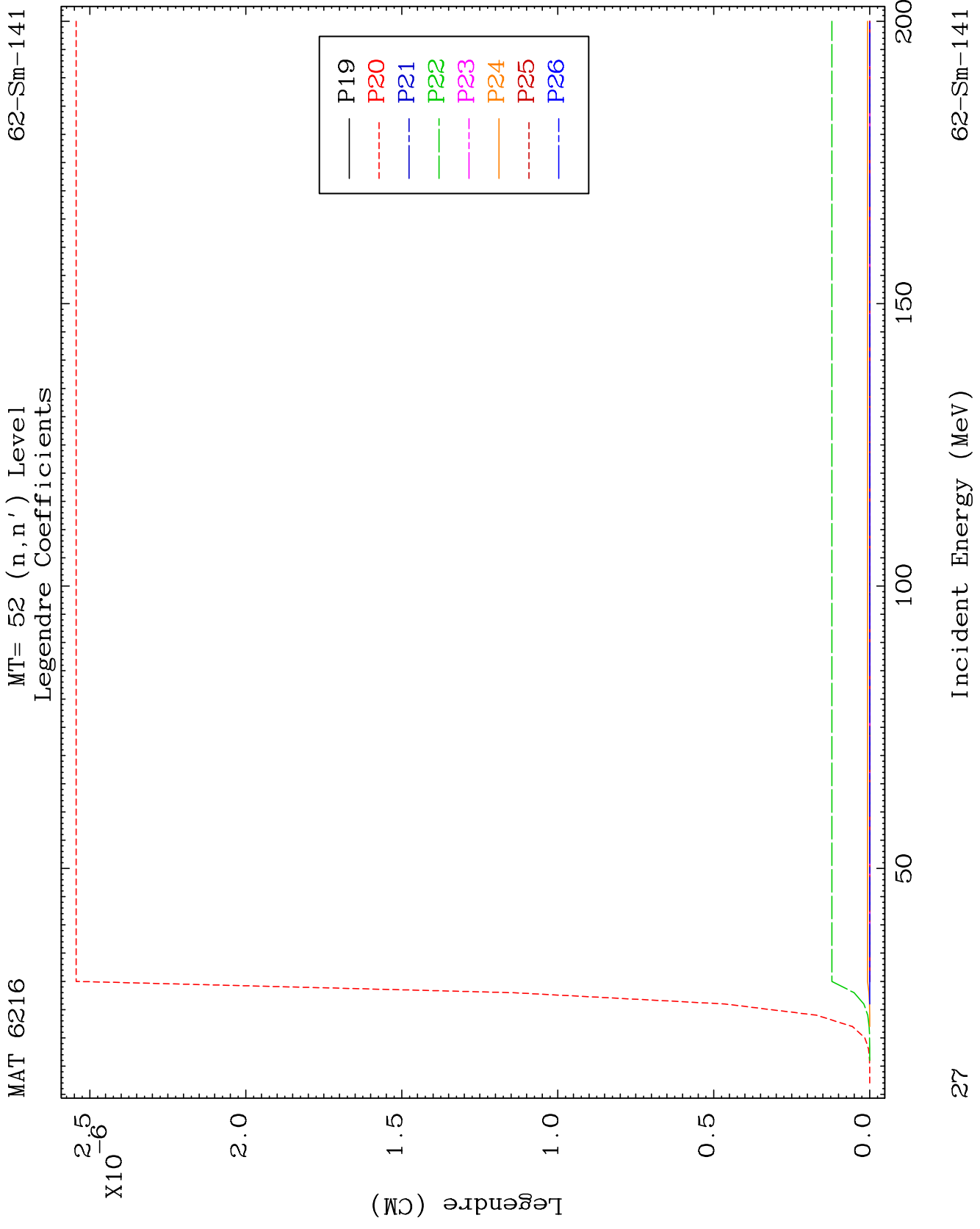
62-Sm-141



26

Incident Energy (MeV)

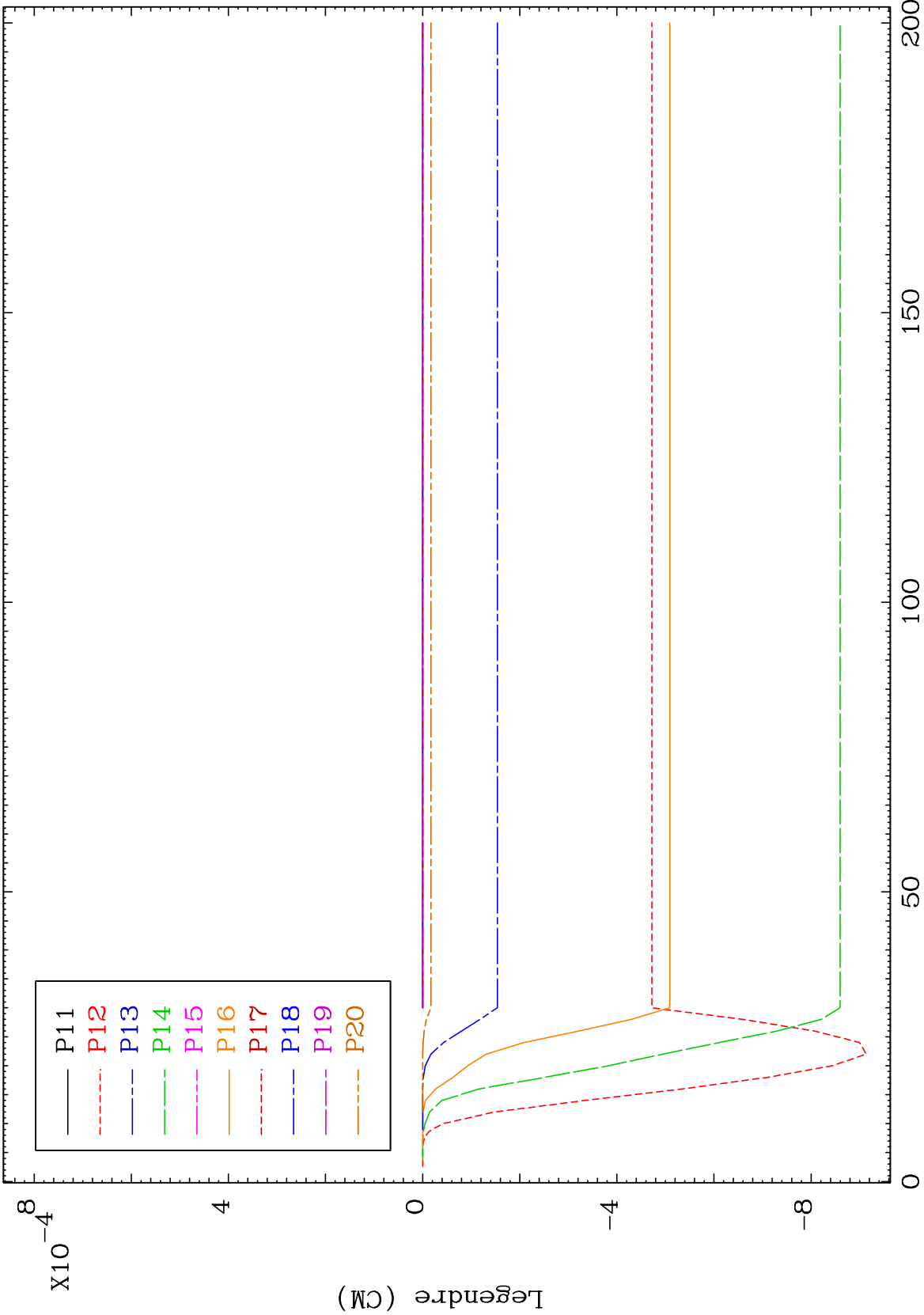
62-Sm-141



MAT 6216

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

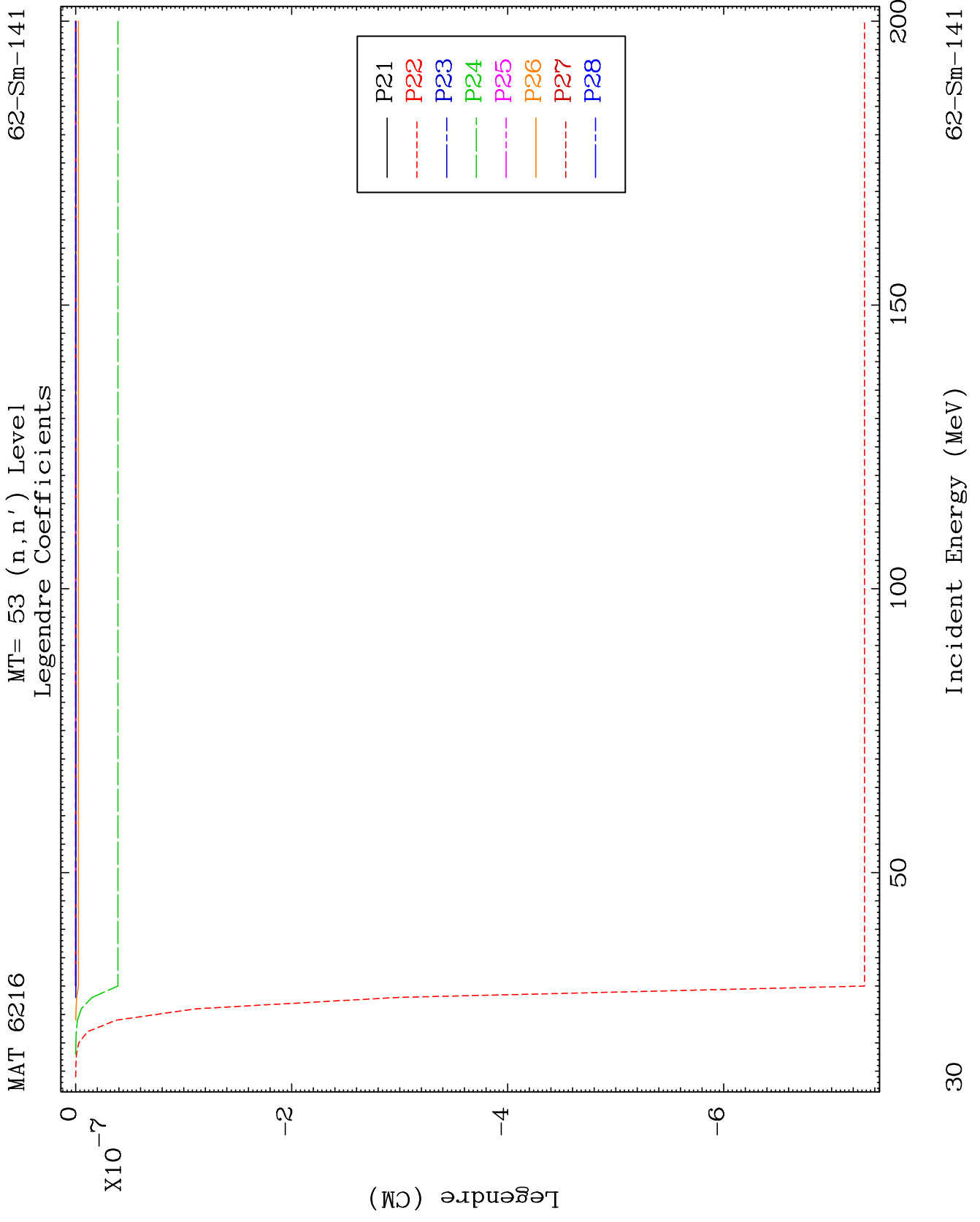
62-Sm-141

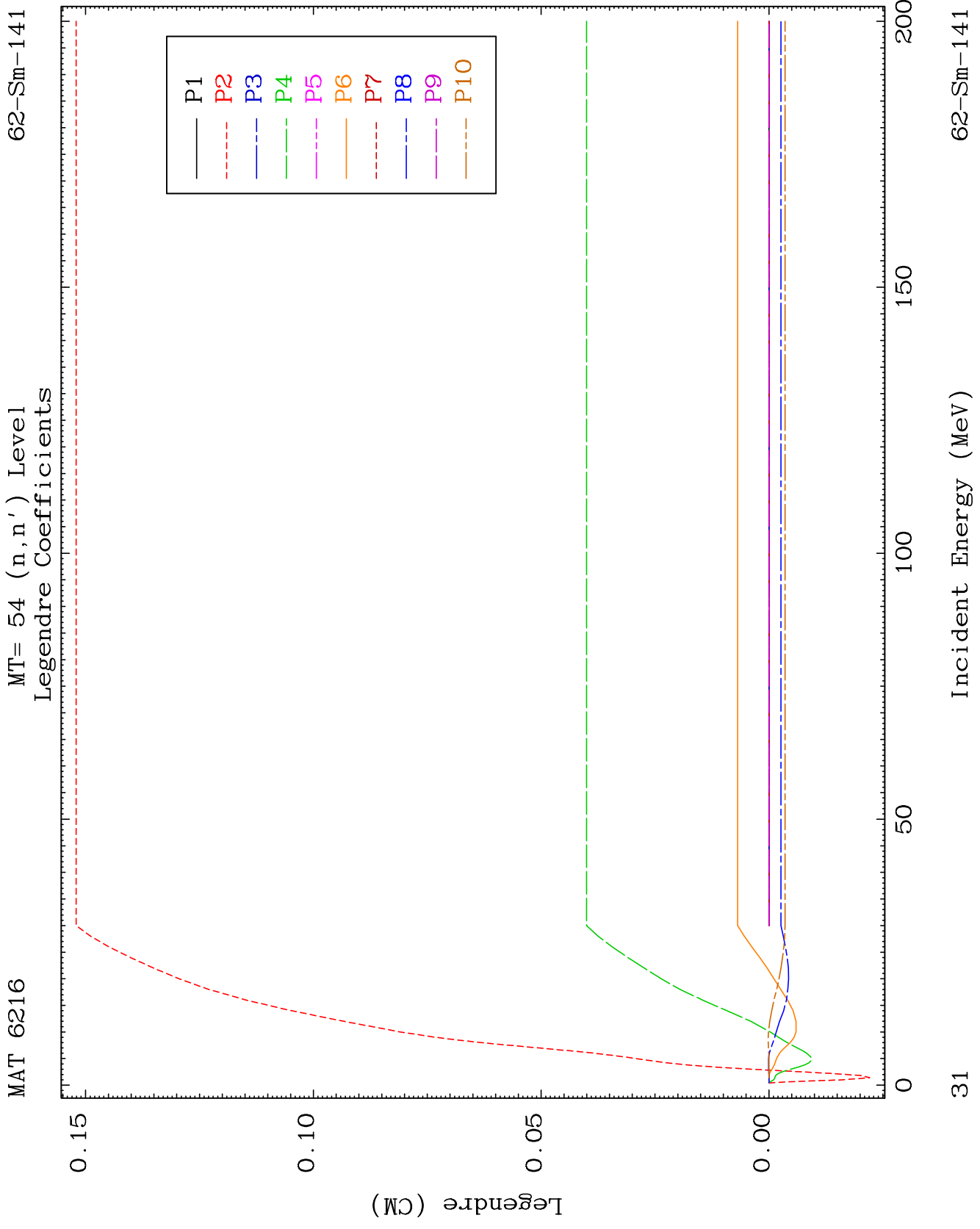


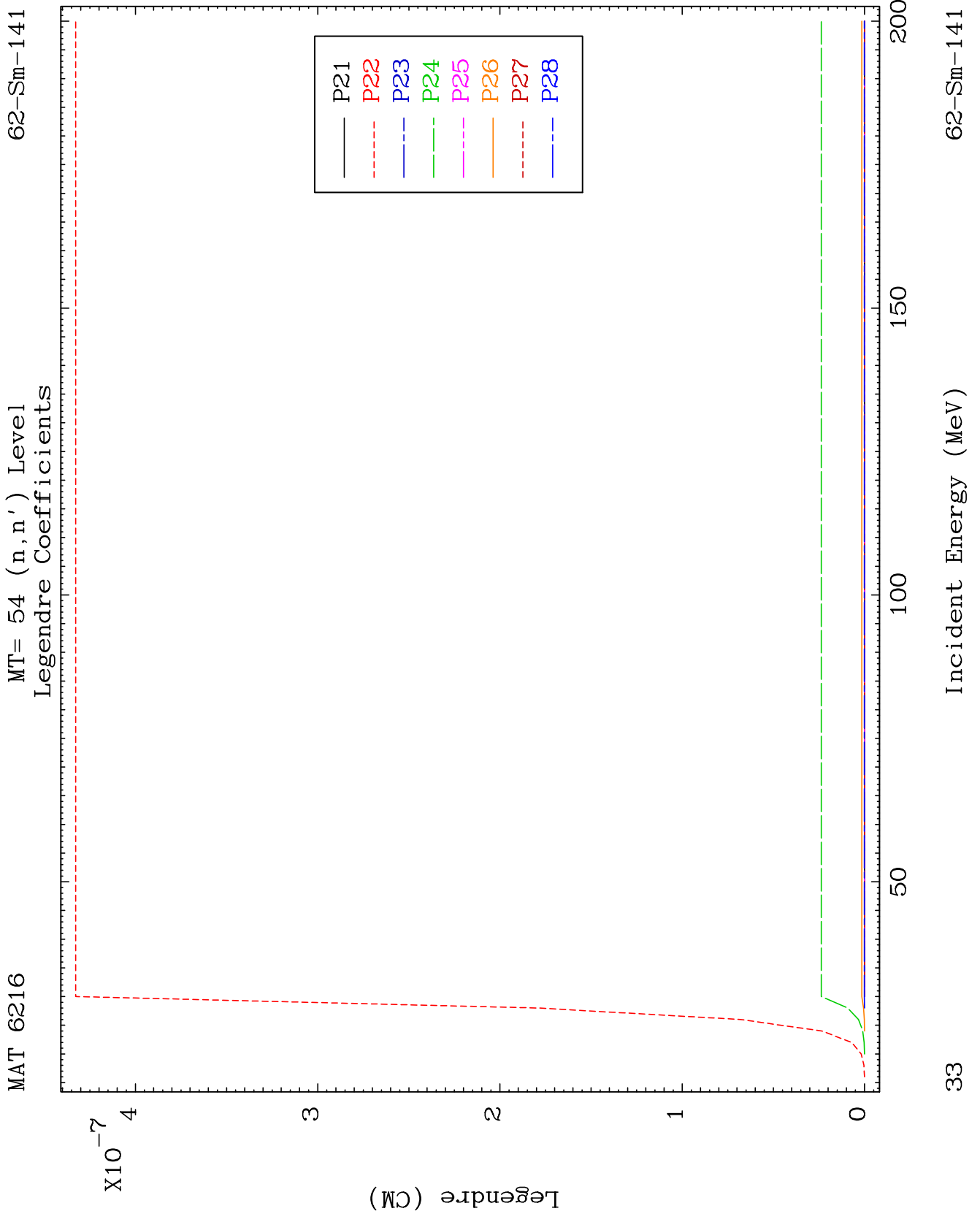
29

Incident Energy (MeV)

62-Sm-141



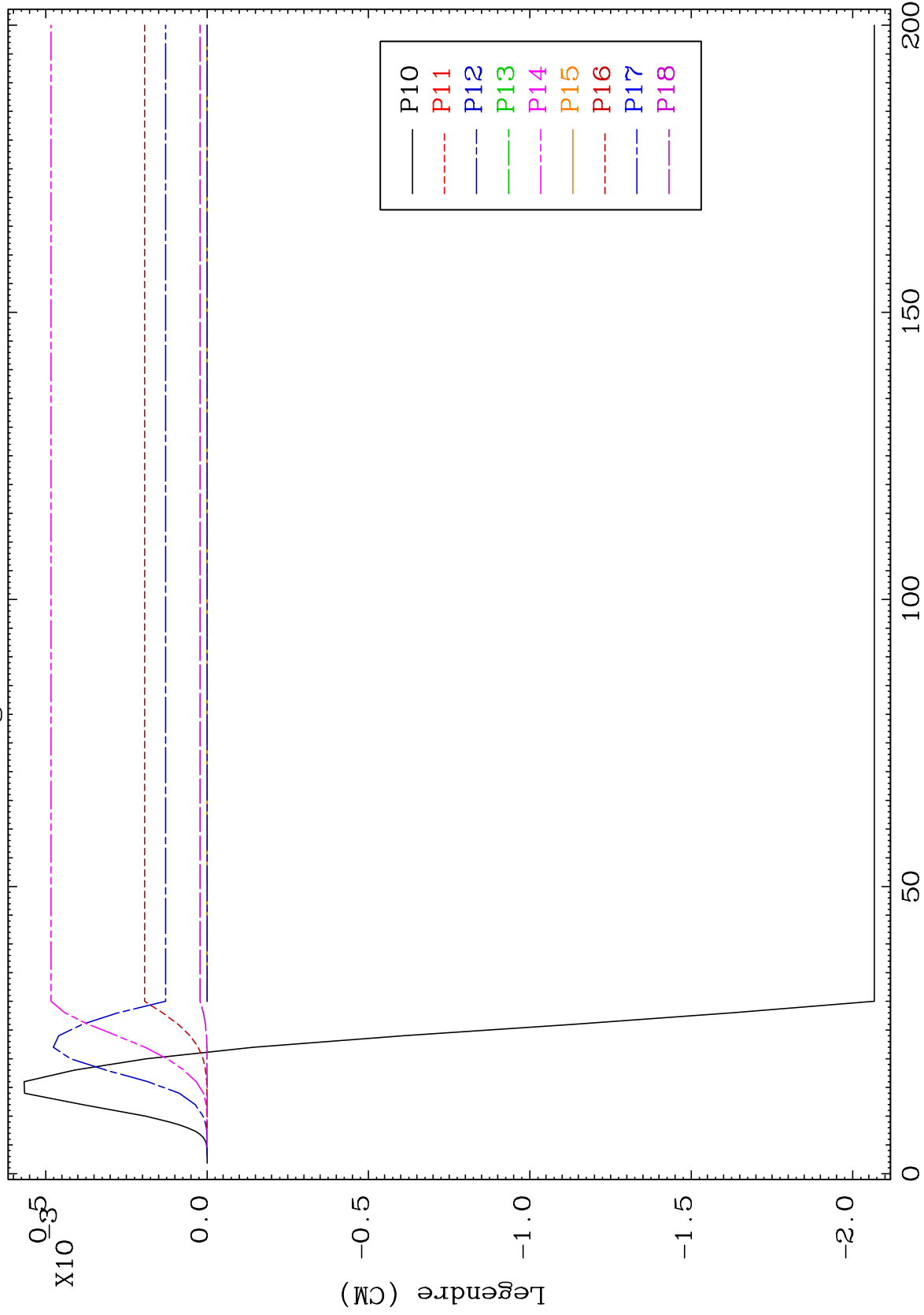




MAT 6216

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

62-Sm-141



35

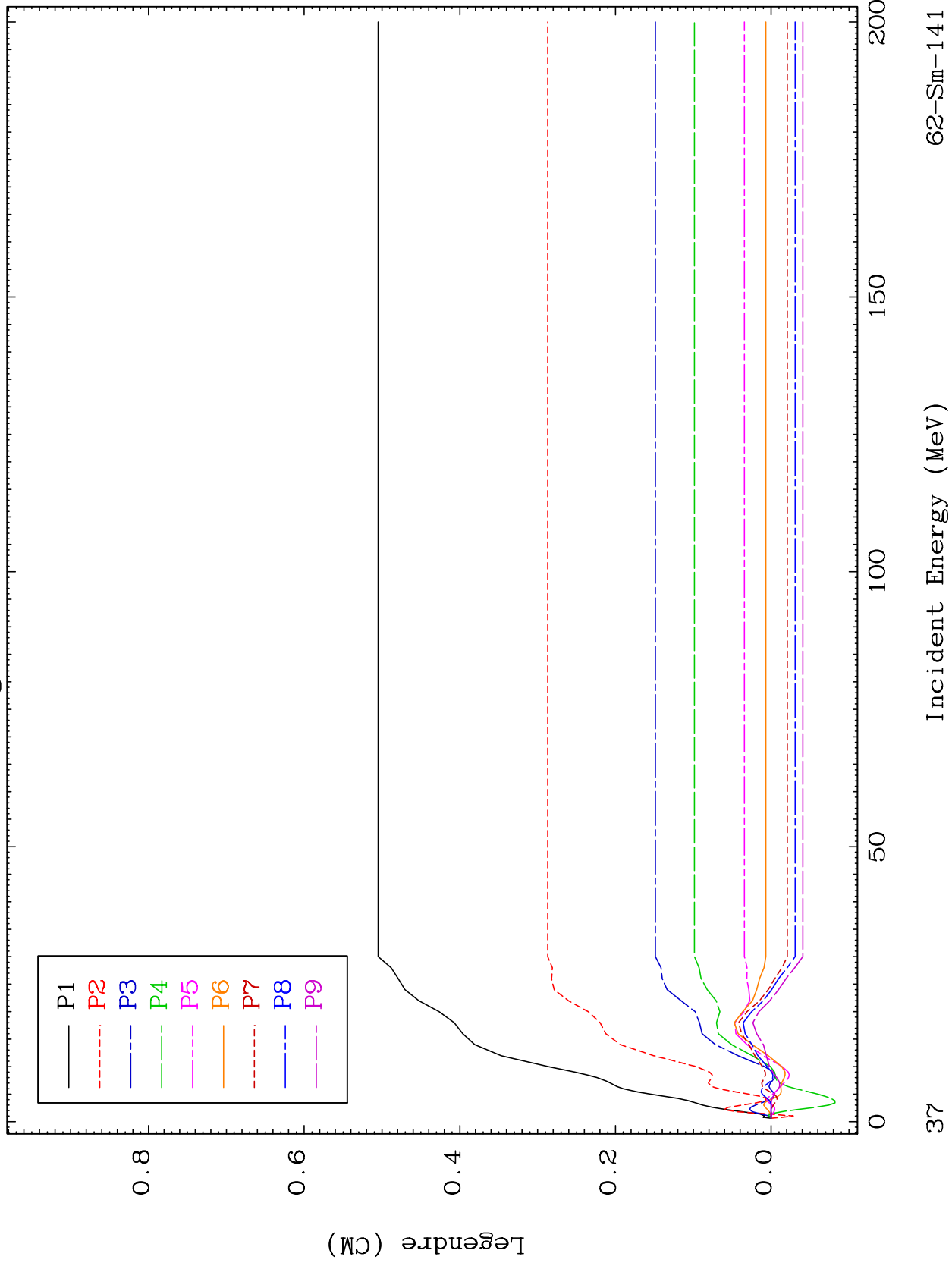
Incident Energy (MeV)

62-Sm-141

MAT 6216

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

62-Sm-141



37

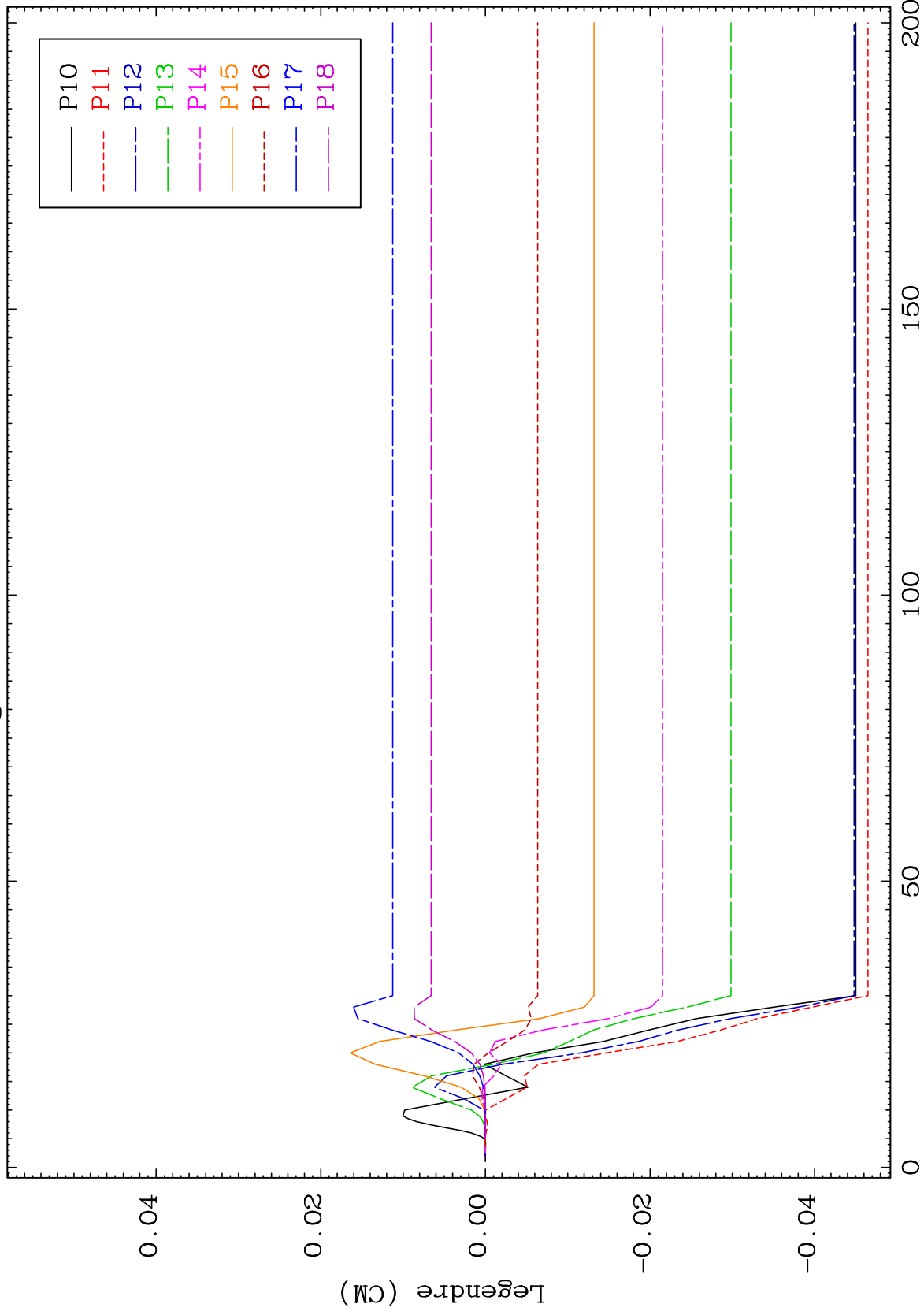
Incident Energy (MeV)

62-Sm-141

MAT 6216

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

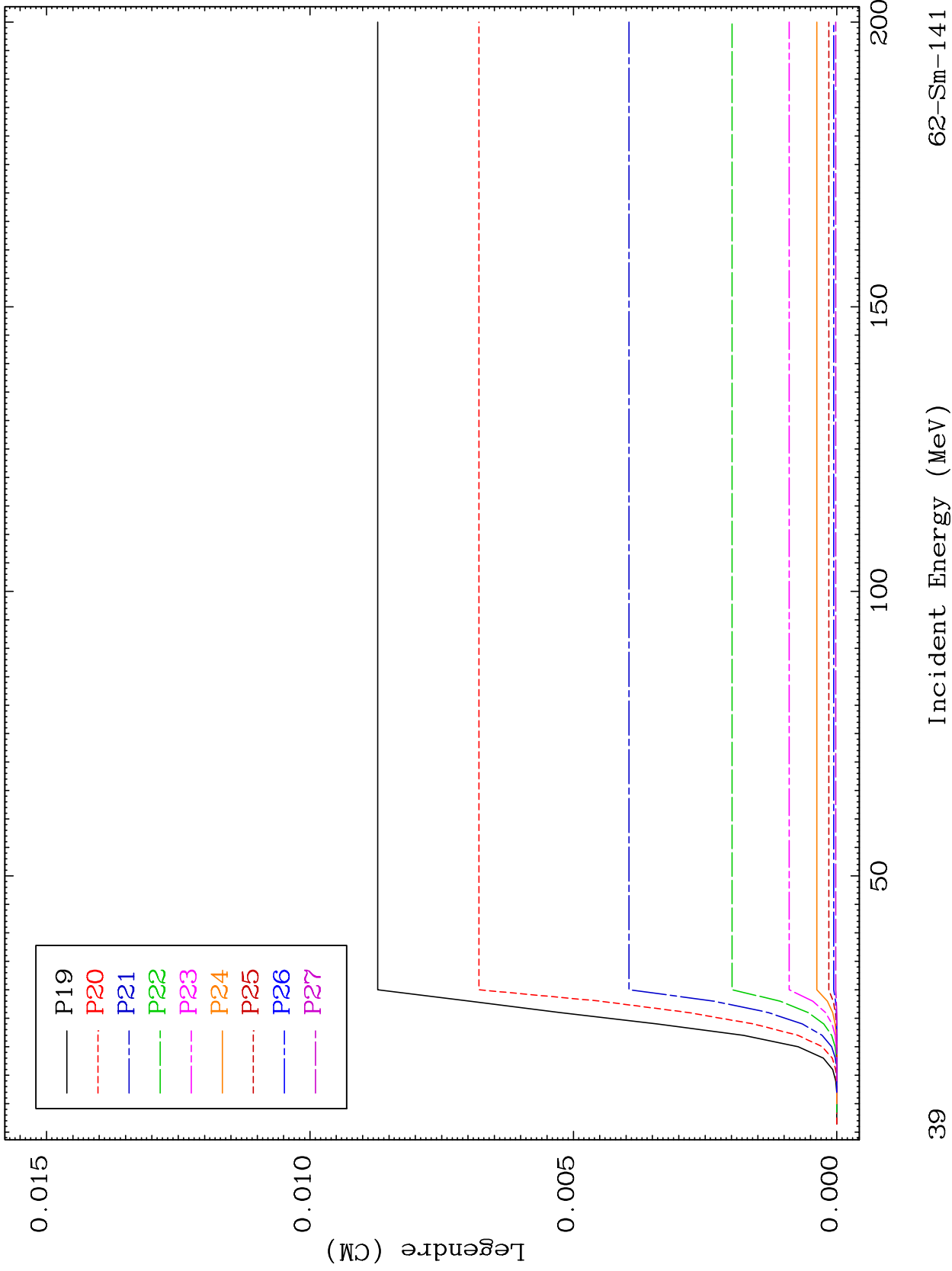
62-Sm-141



38

Incident Energy (MeV)

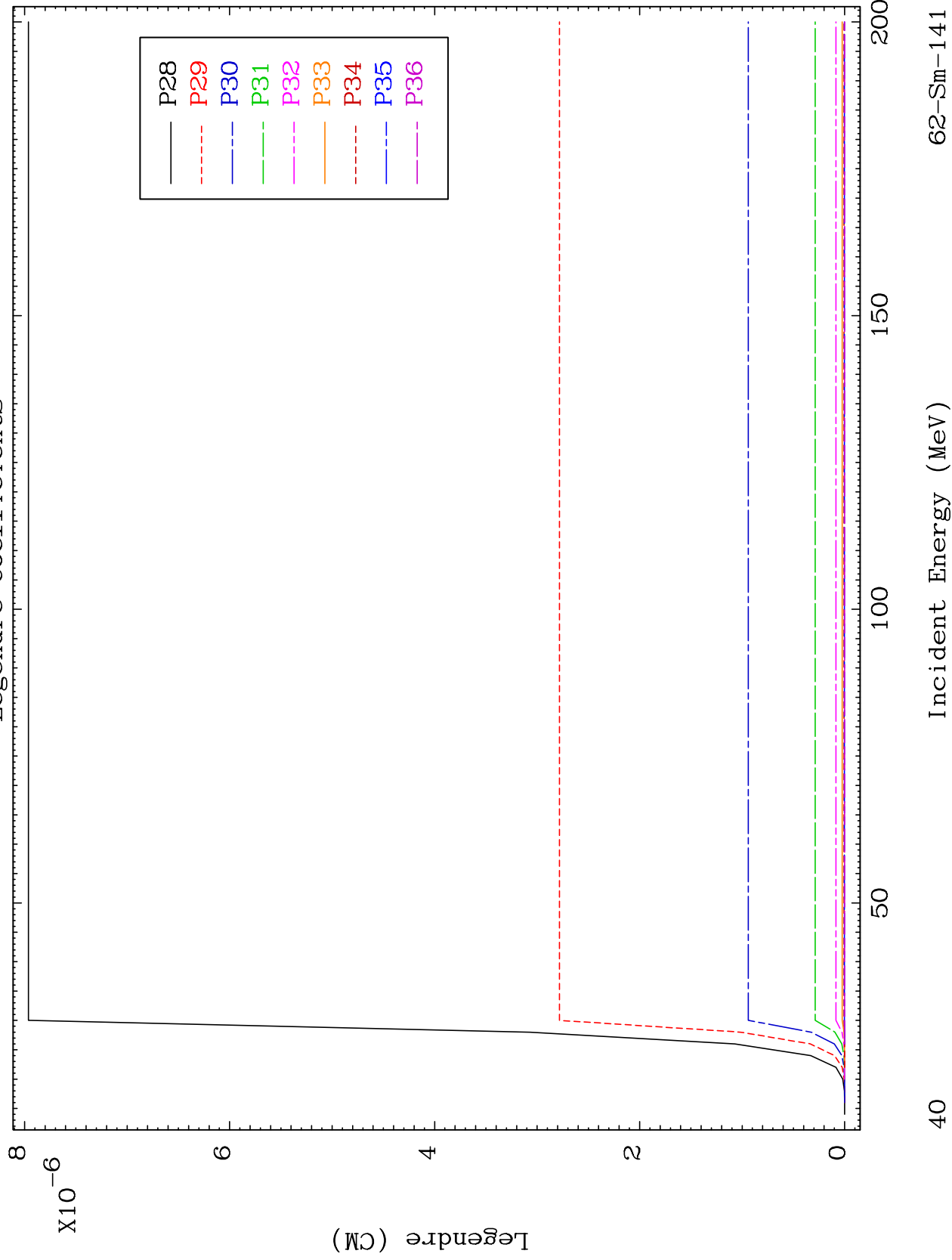
62-Sm-141



MAT 6216

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

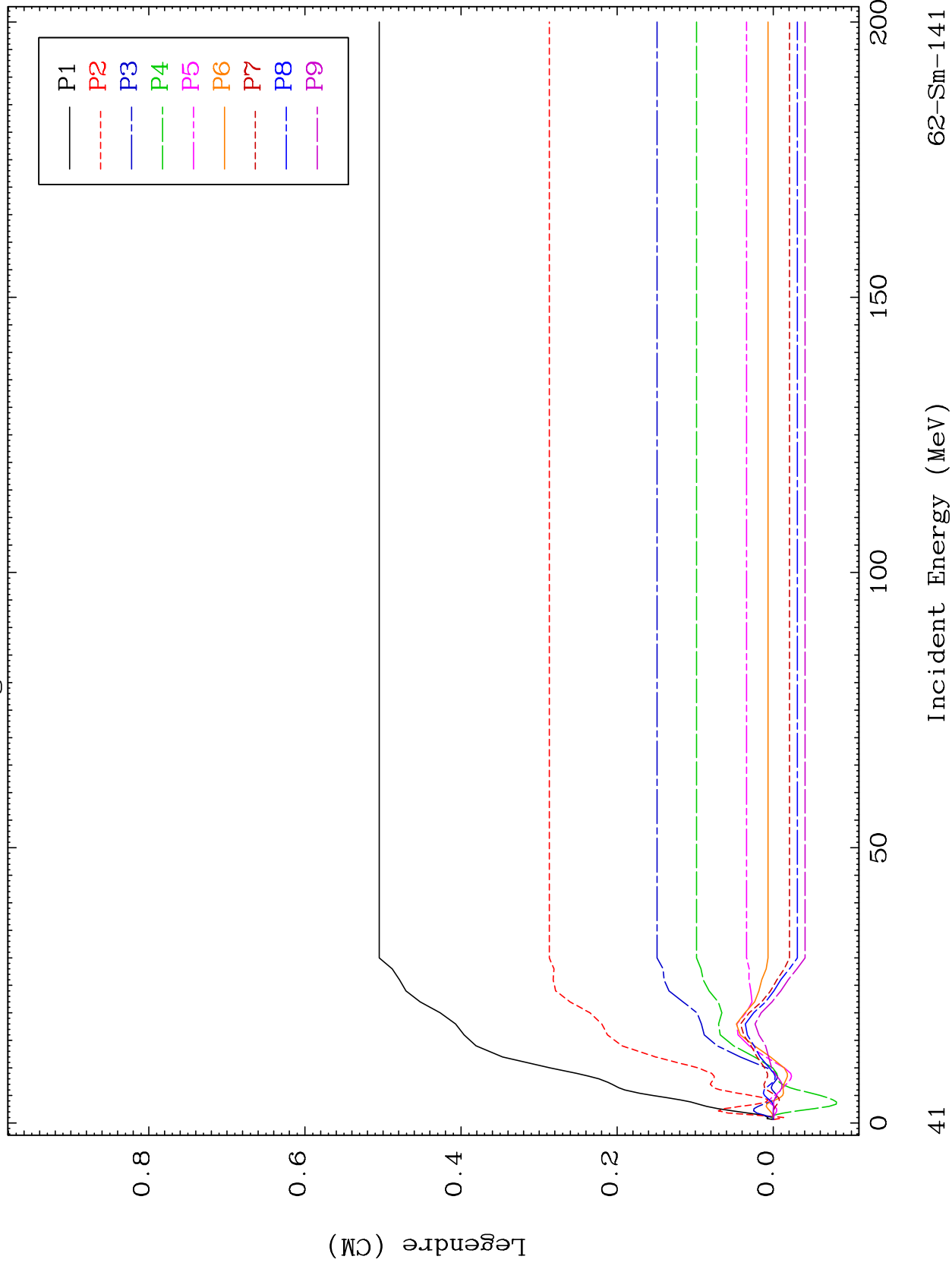
62-Sm-141



MAT 6216

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

62-Sm-141



62-Sm-141

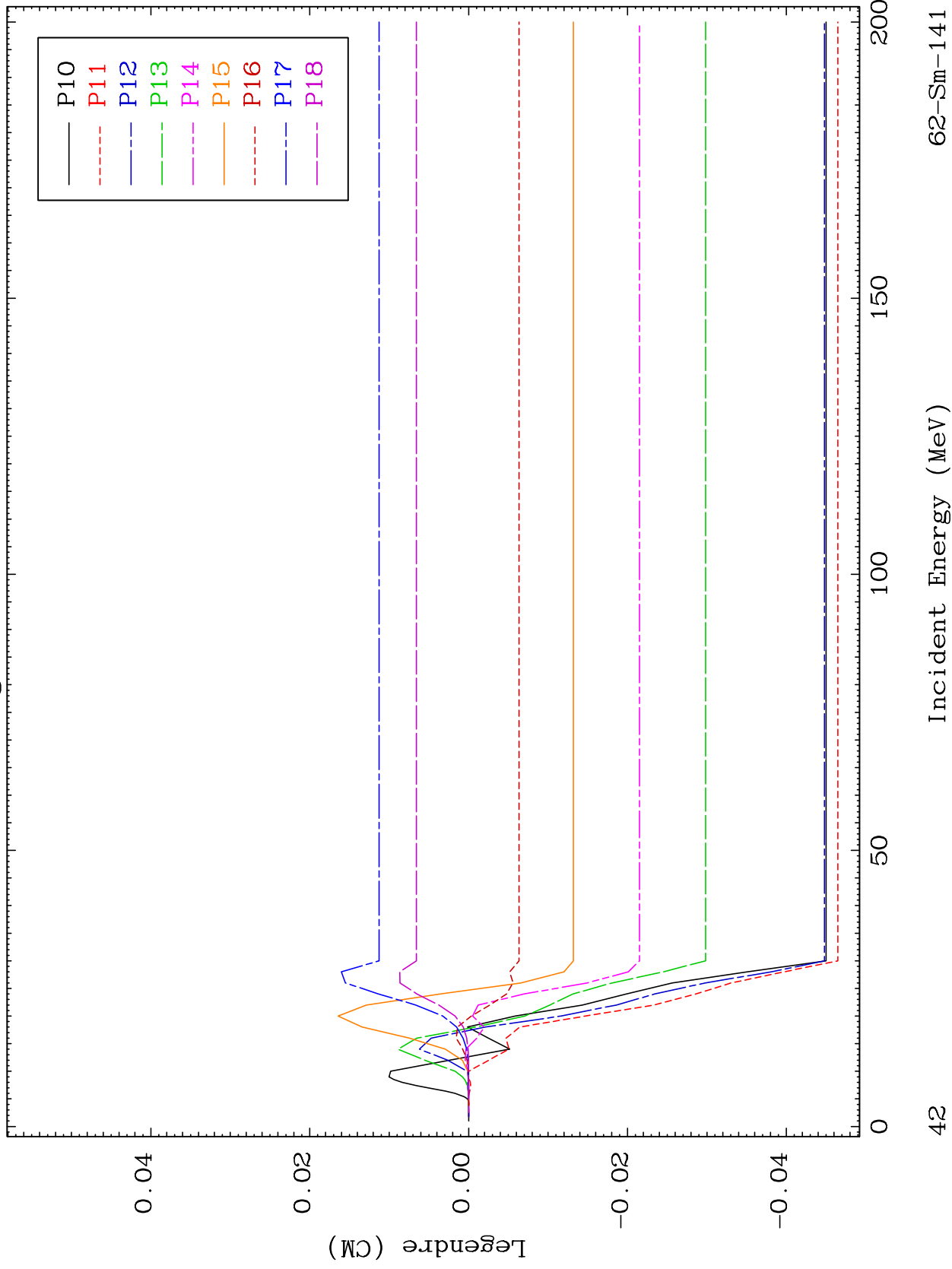
Incident Energy (MeV)

41

MAT 6216

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

62-Sm-141



62-Sm-141

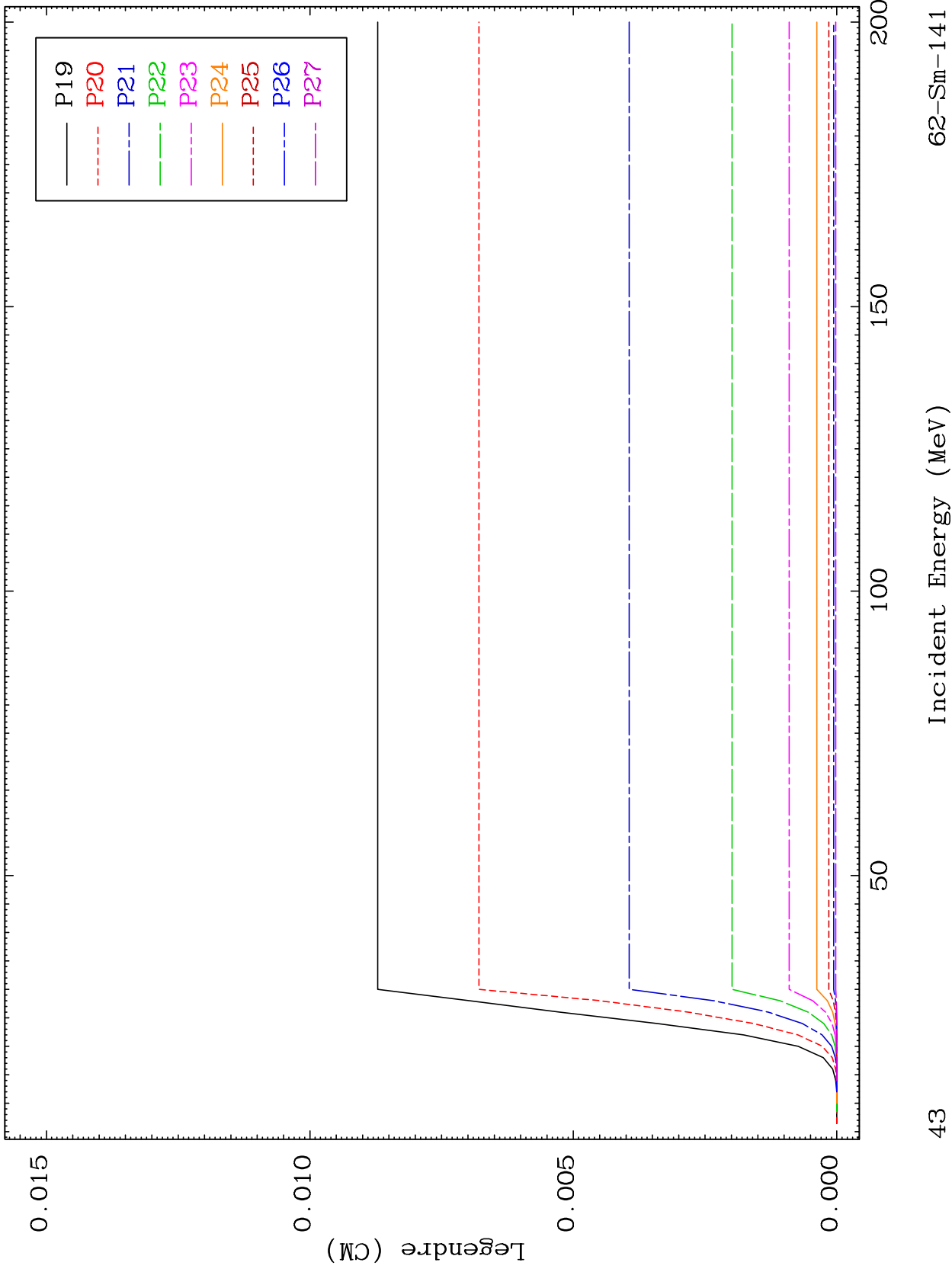
Incident Energy (MeV)

42

MAT 6216

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

62-Sm-141



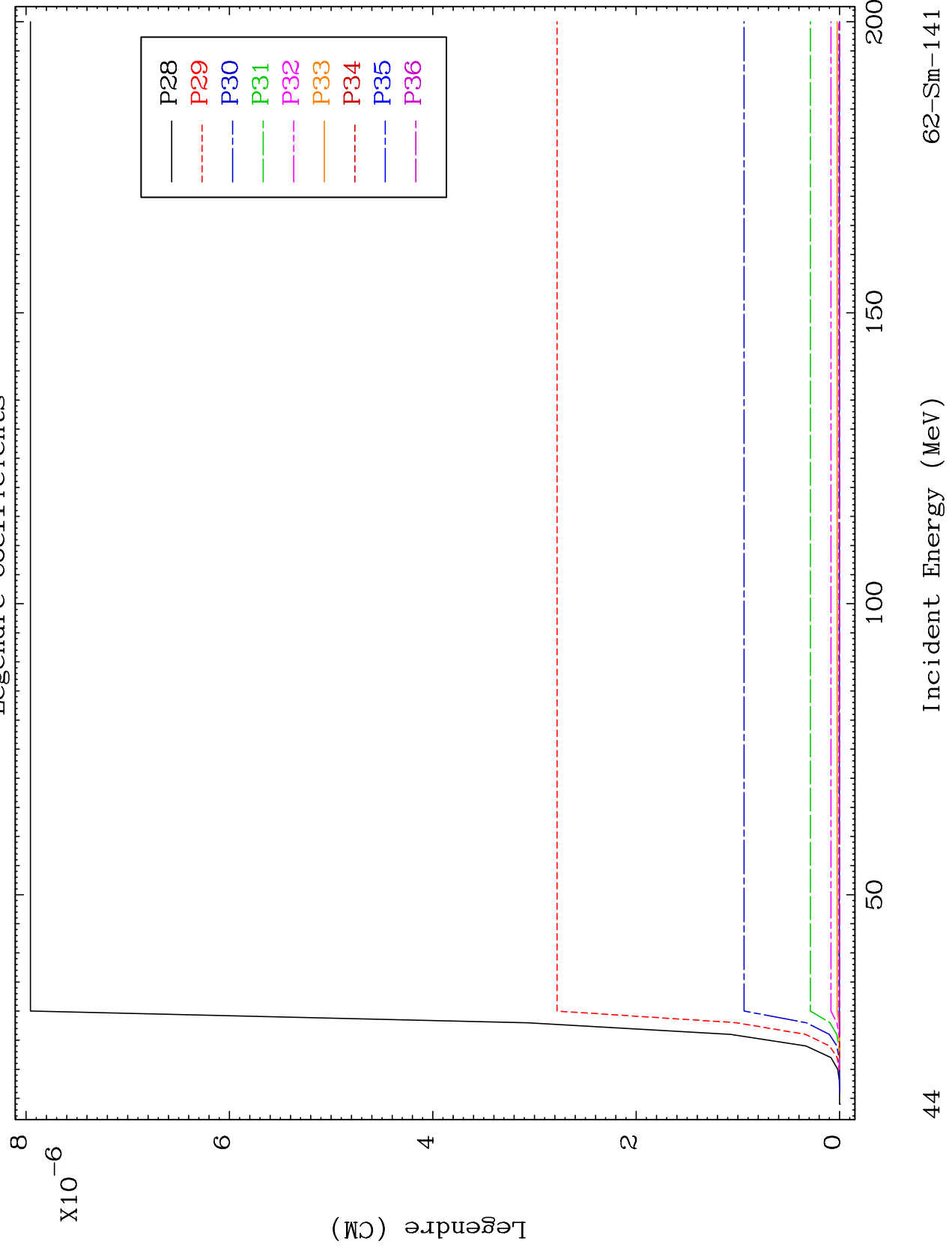
43

62-Sm-141

MAT 6216

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

62-Sm-141



44

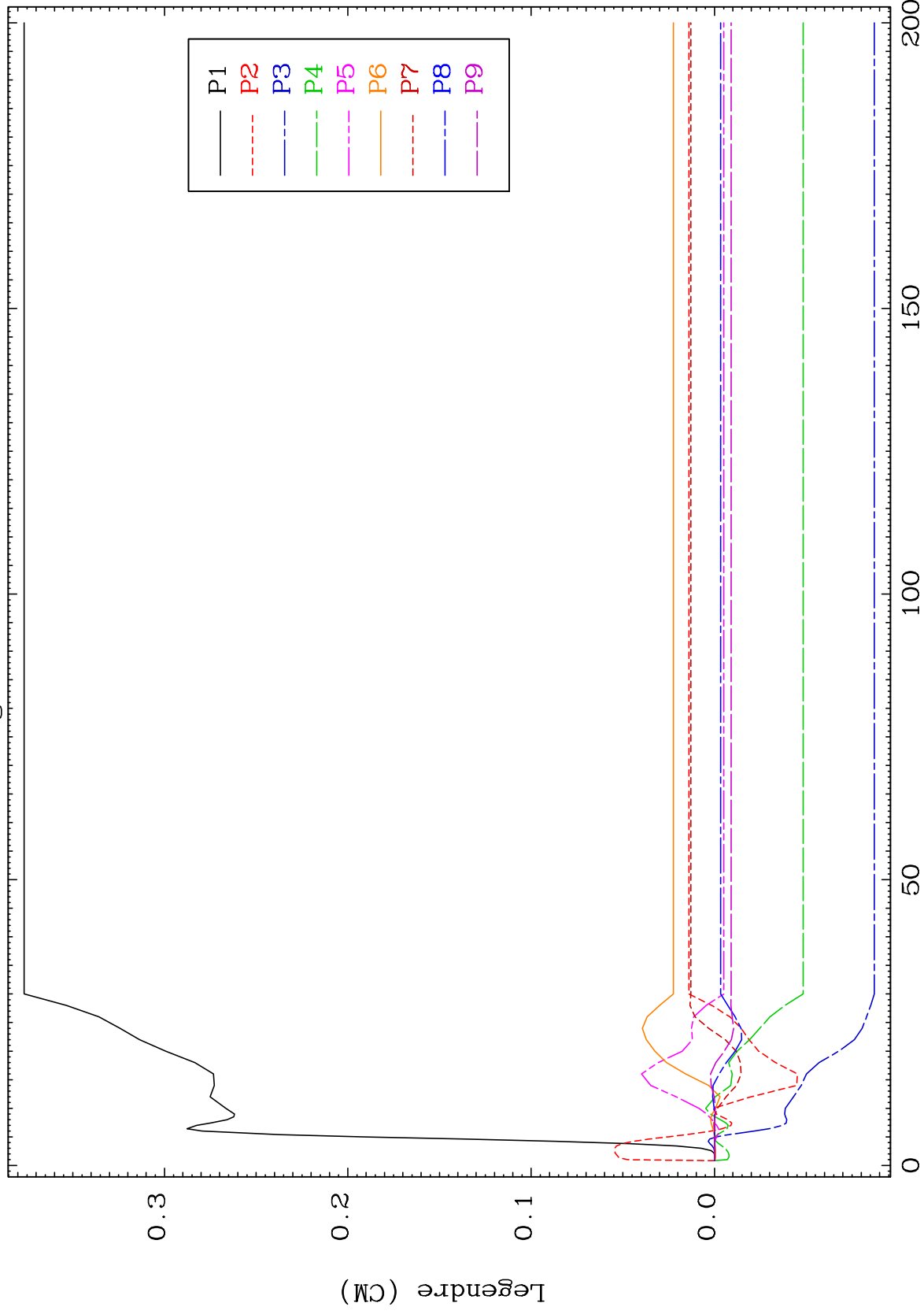
Incident Energy (MeV)

62-Sm-141

MAT 6216

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

62-Sm-141



45

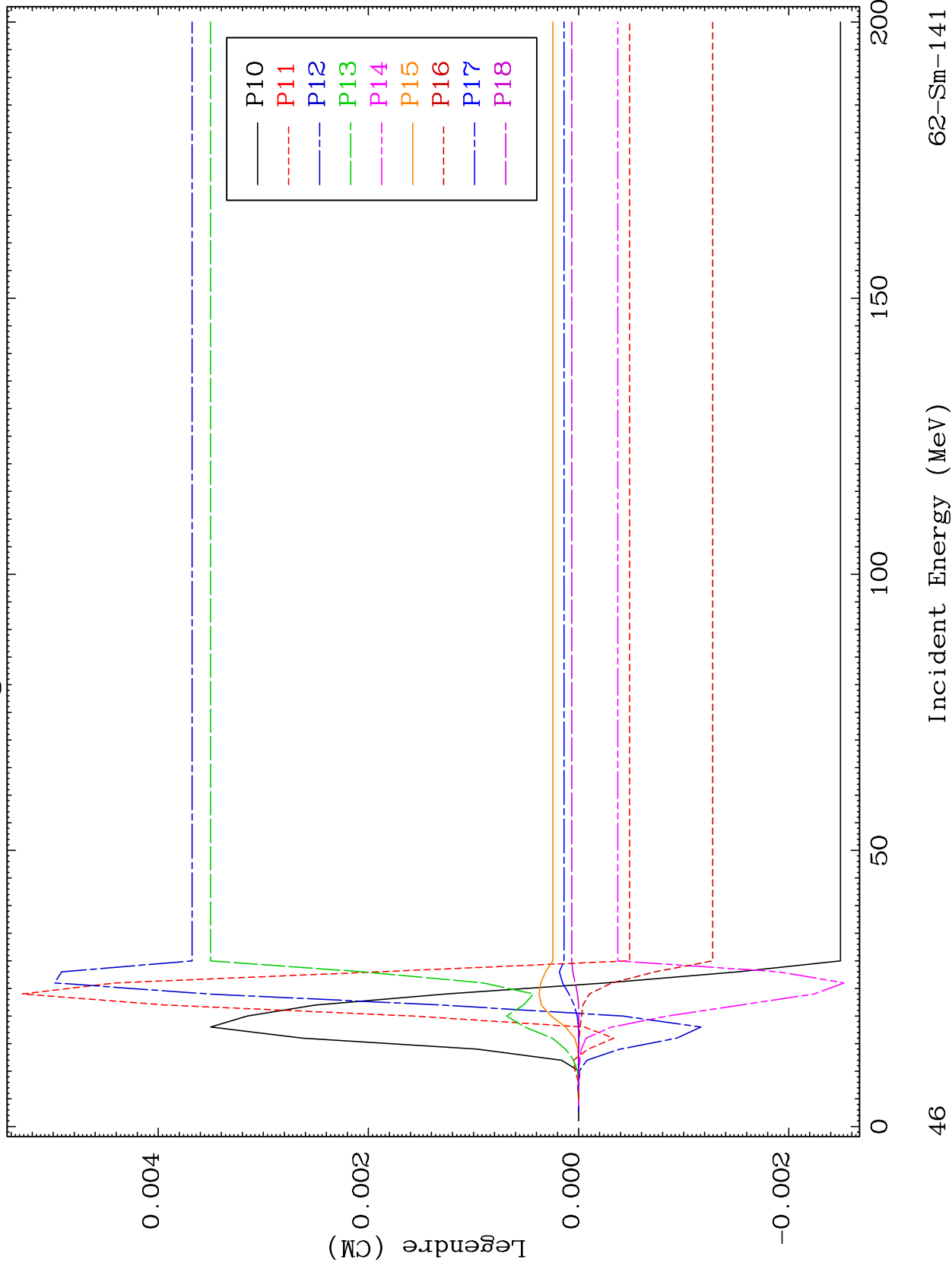
Incident Energy (MeV)

62-Sm-141

MAT 6216

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

62-Sm-141



46

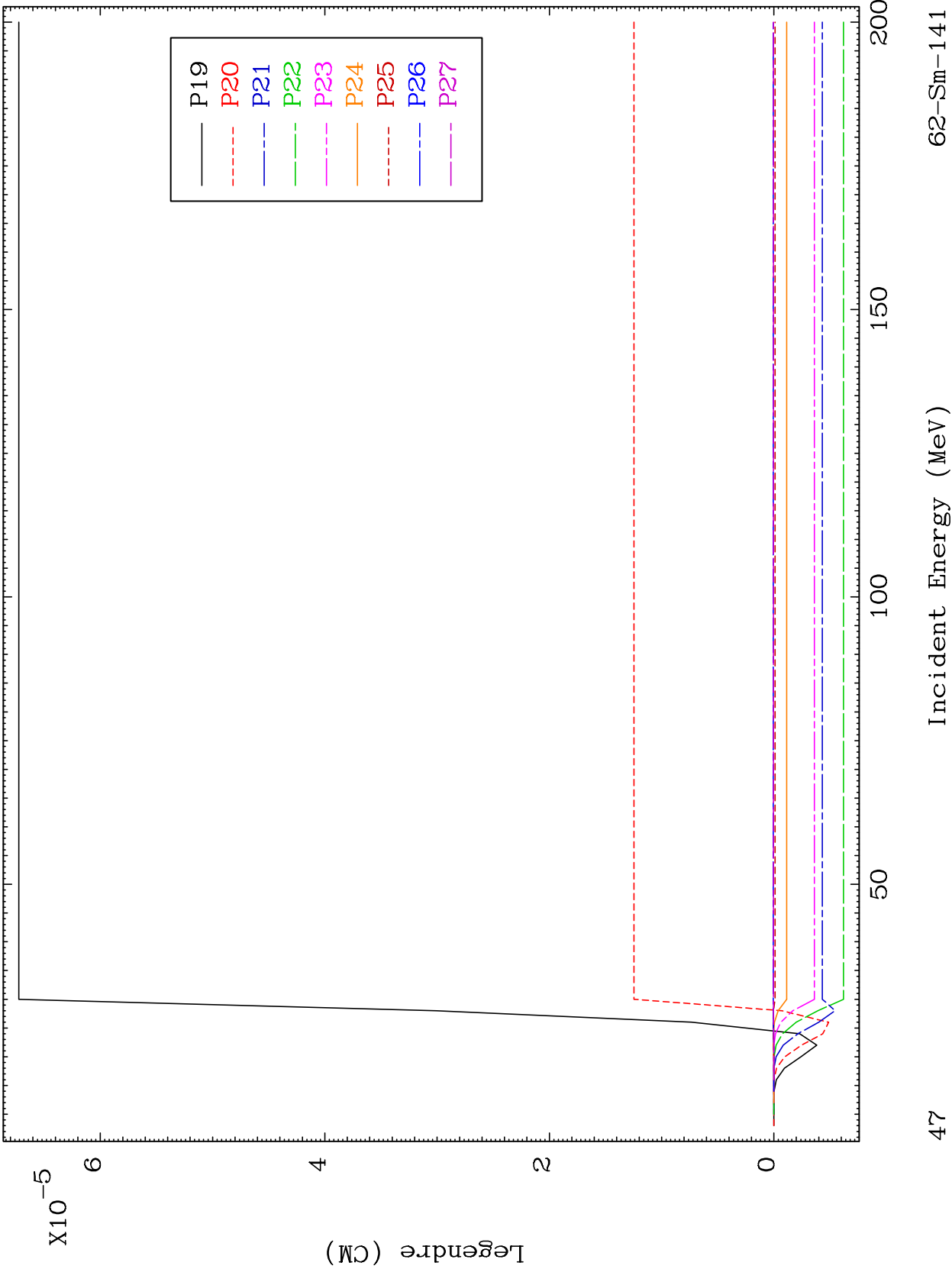
Incident Energy (MeV)

62-Sm-141

MAT 6216

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

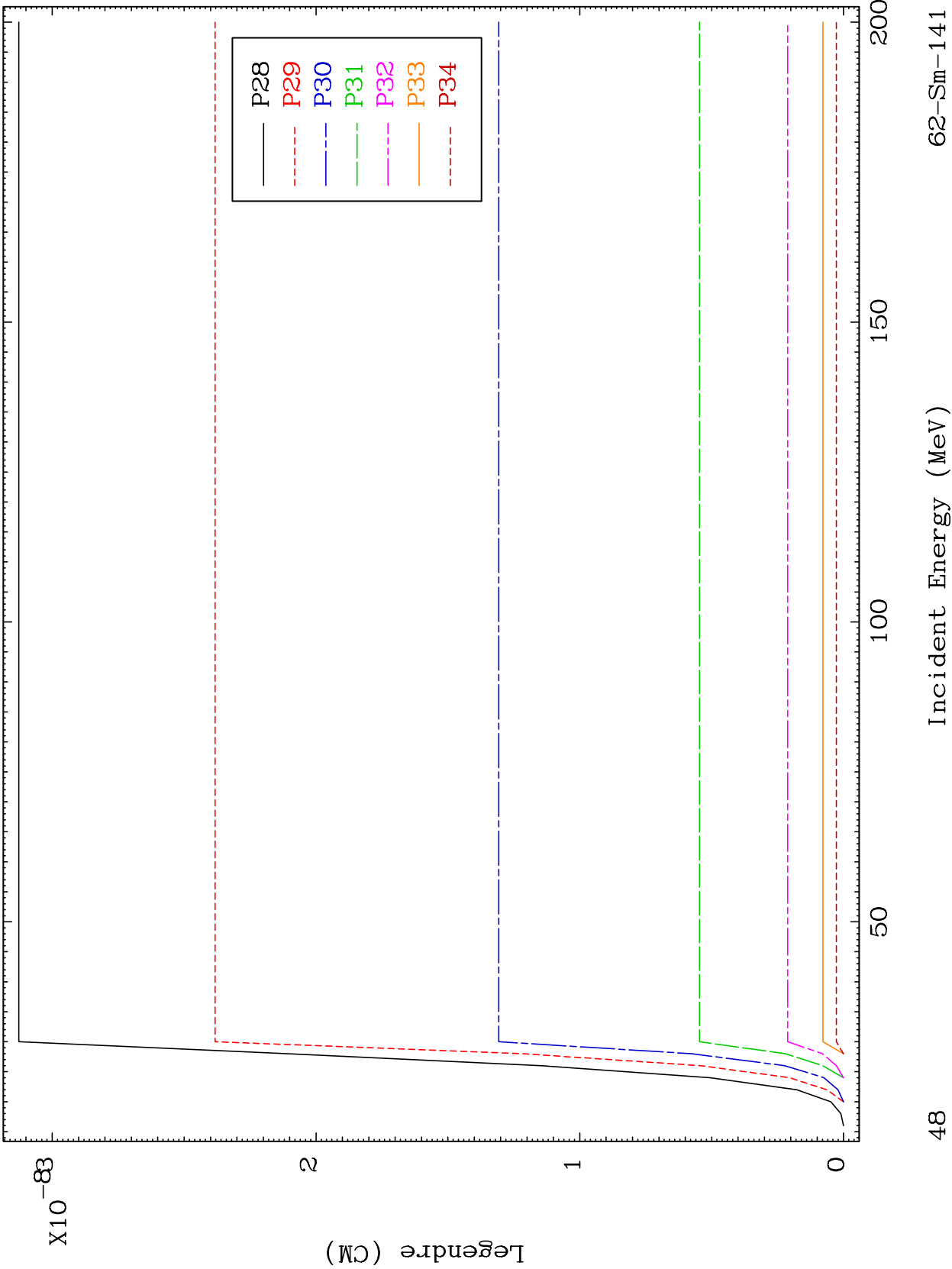
62-Sm-141



MAT 6216

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

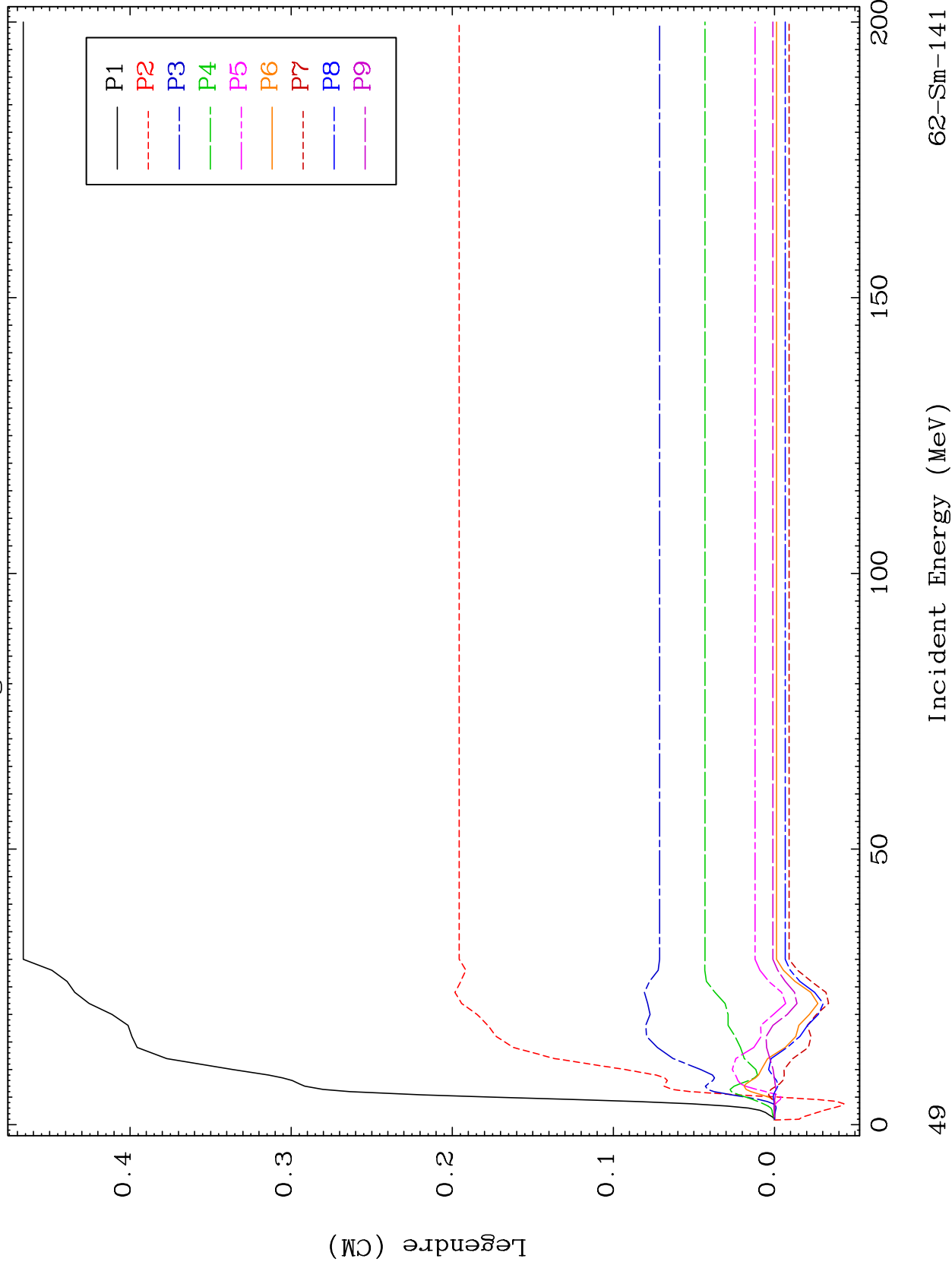
62-Sm-141



MAT 6216

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

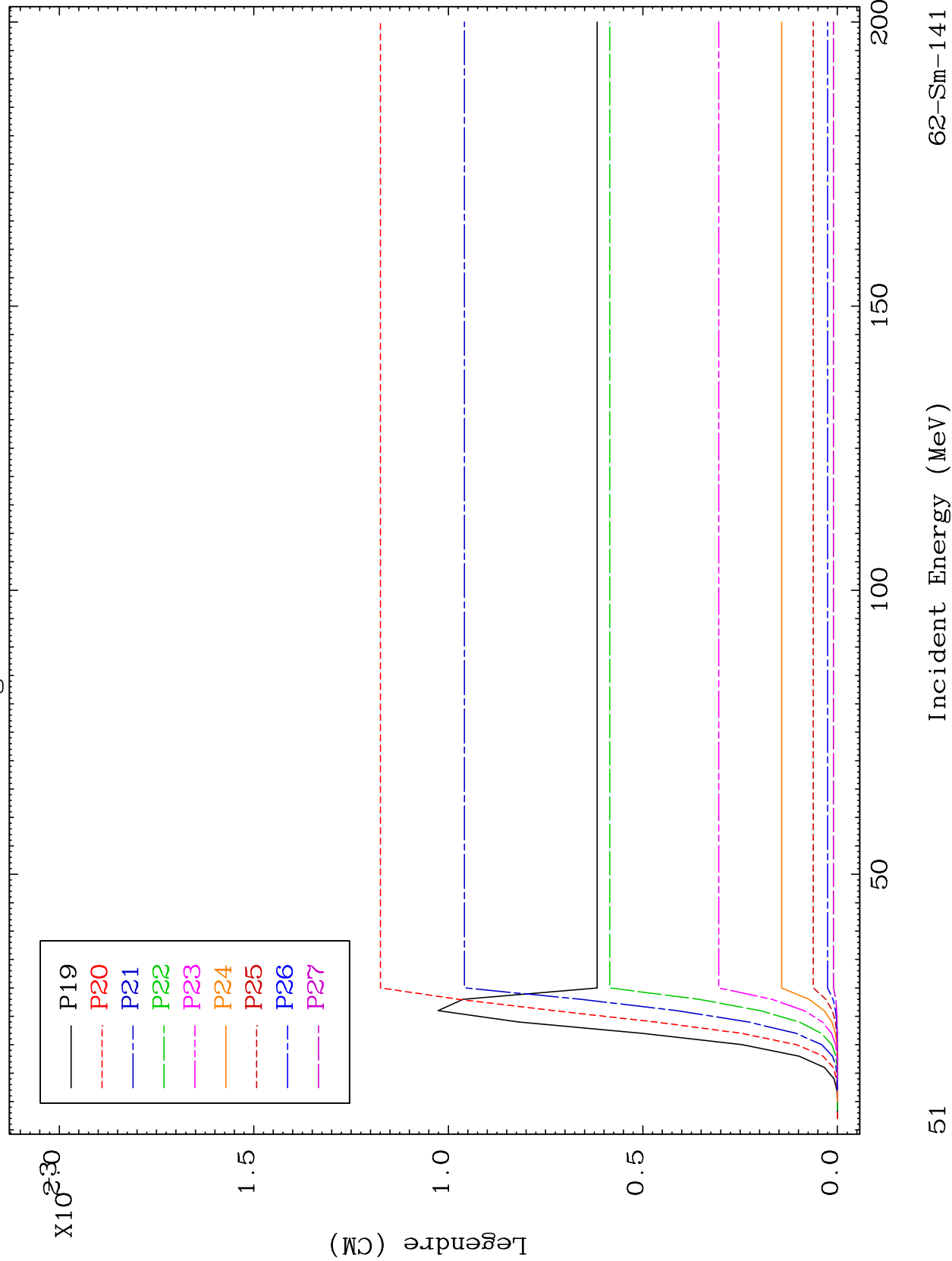
62-Sm-141



62-Sm-141

Incident Energy (MeV)

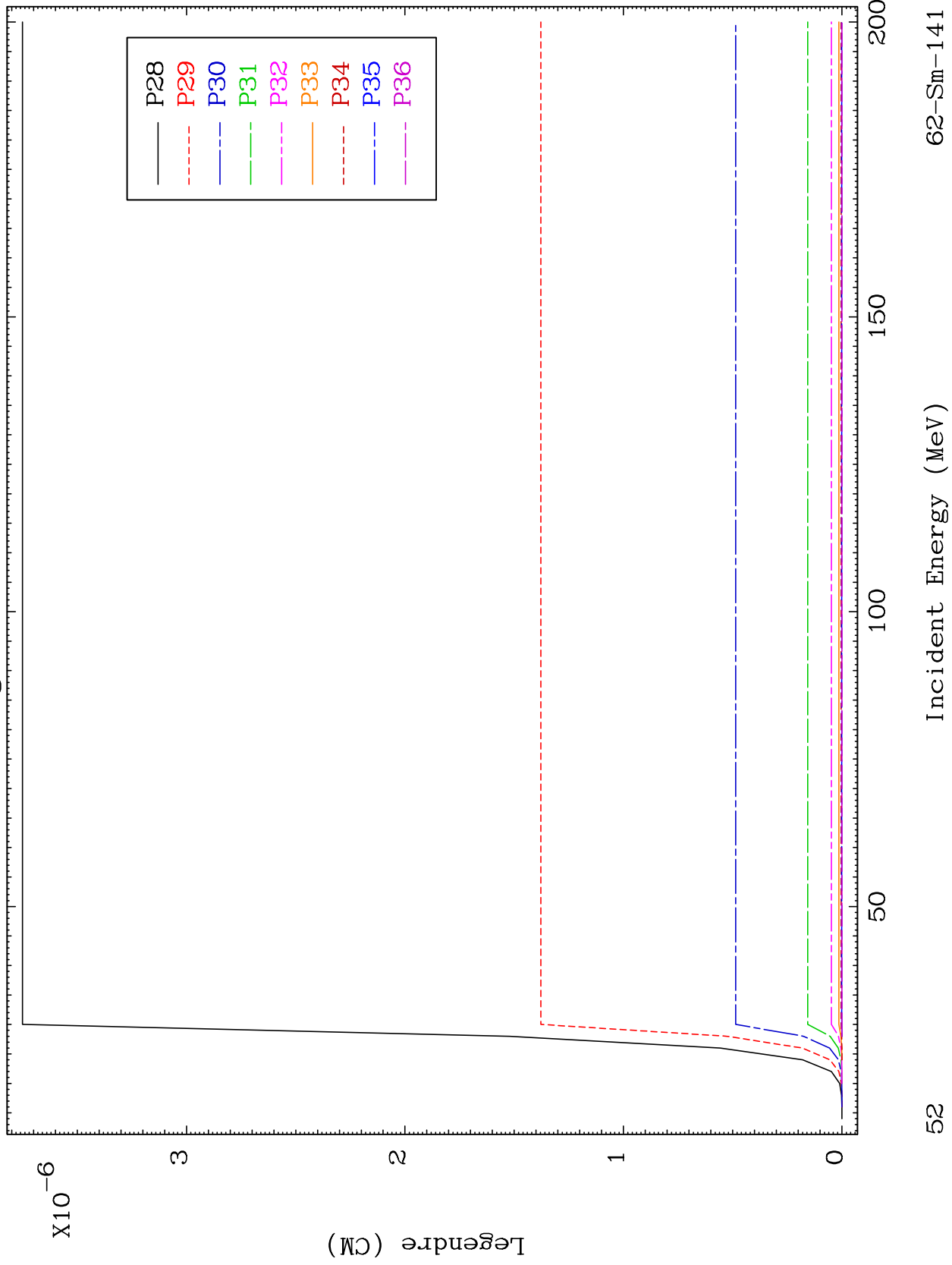
49



MAT 6216

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

62-Sm-141



52

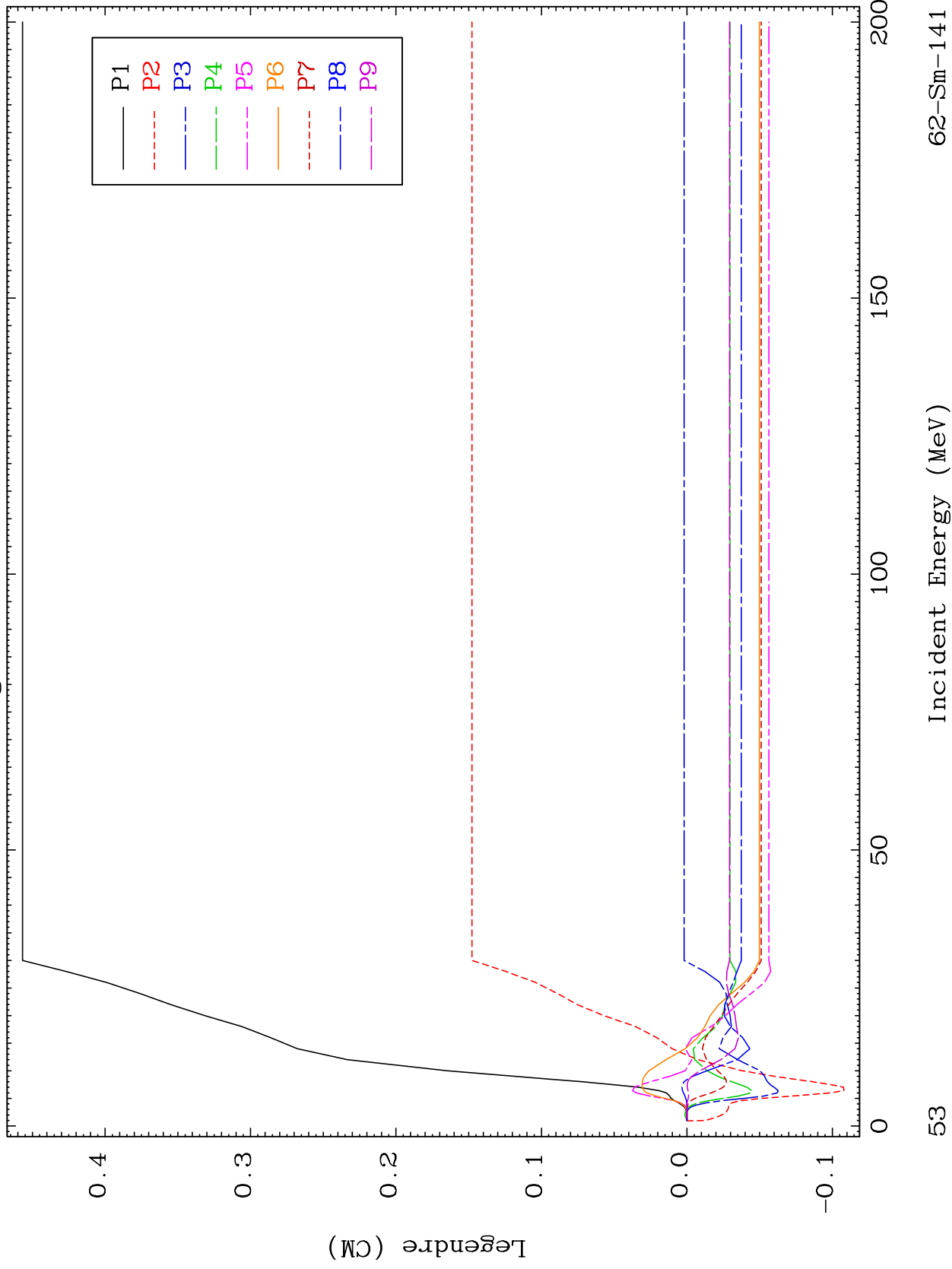
Incident Energy (MeV)

62-Sm-141

MAT 6216

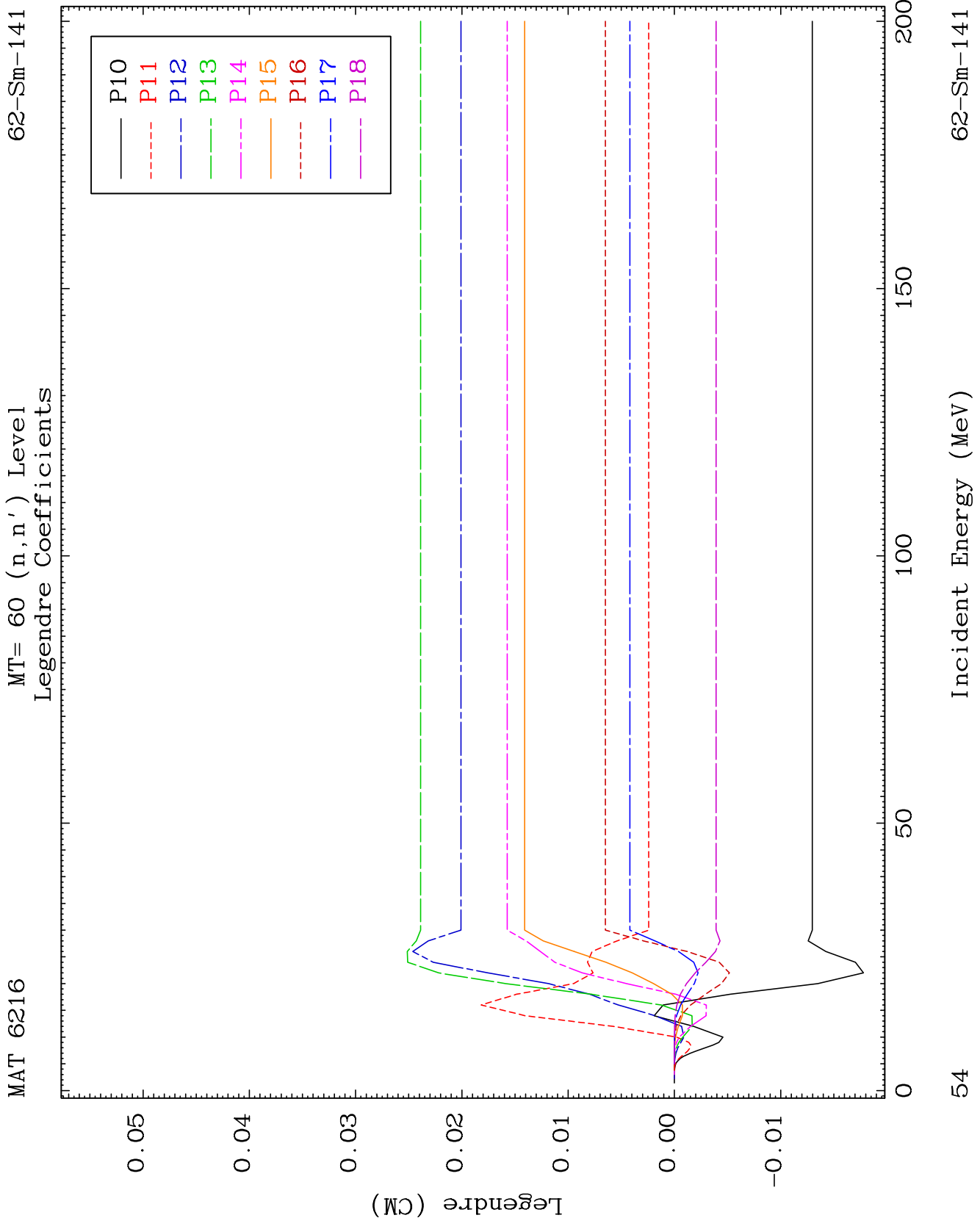
MT= 60 (n,n') Level
Legendre Coefficients

62-Sm-141



53

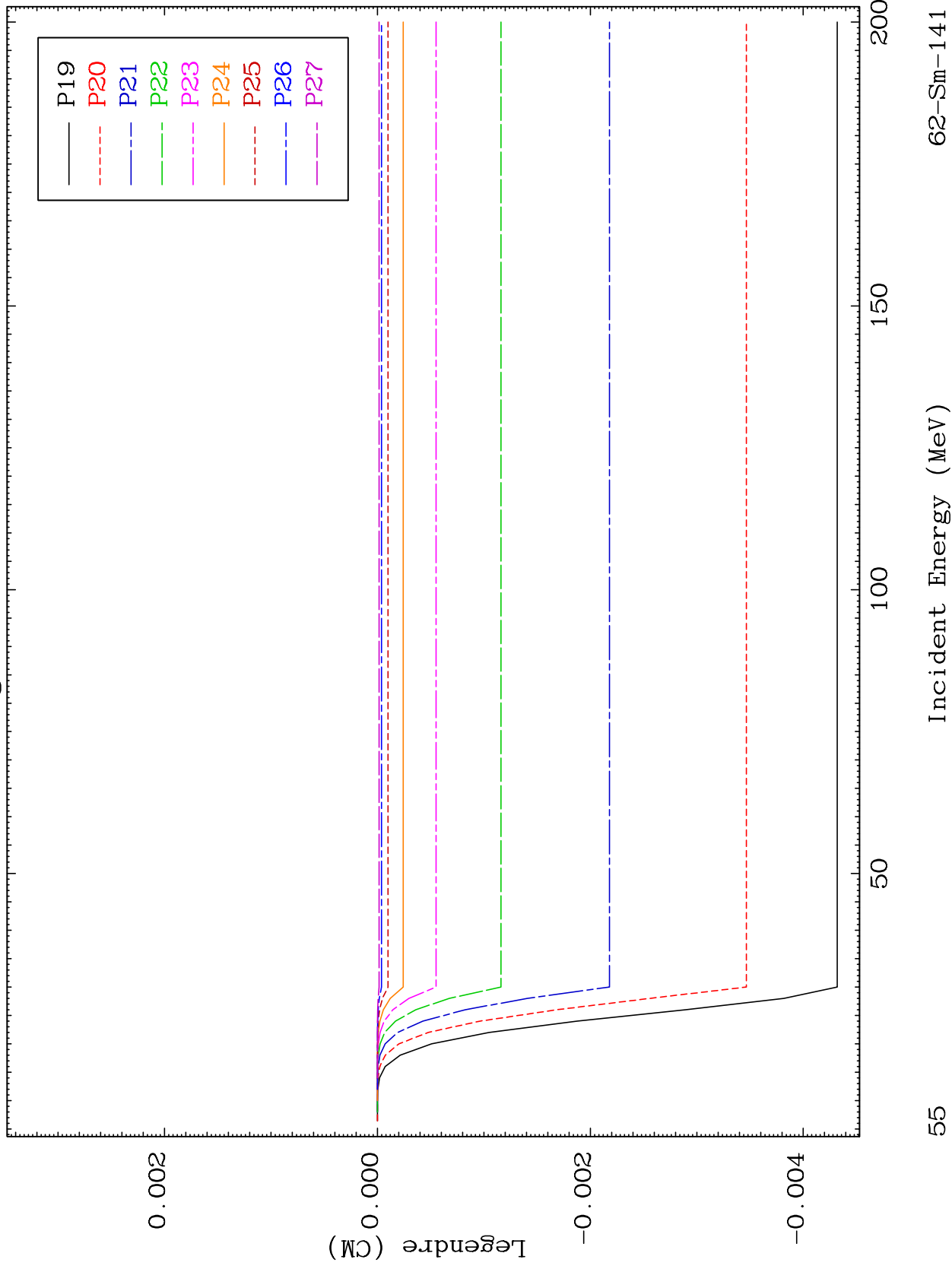
62-Sm-141



MAT 6216

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

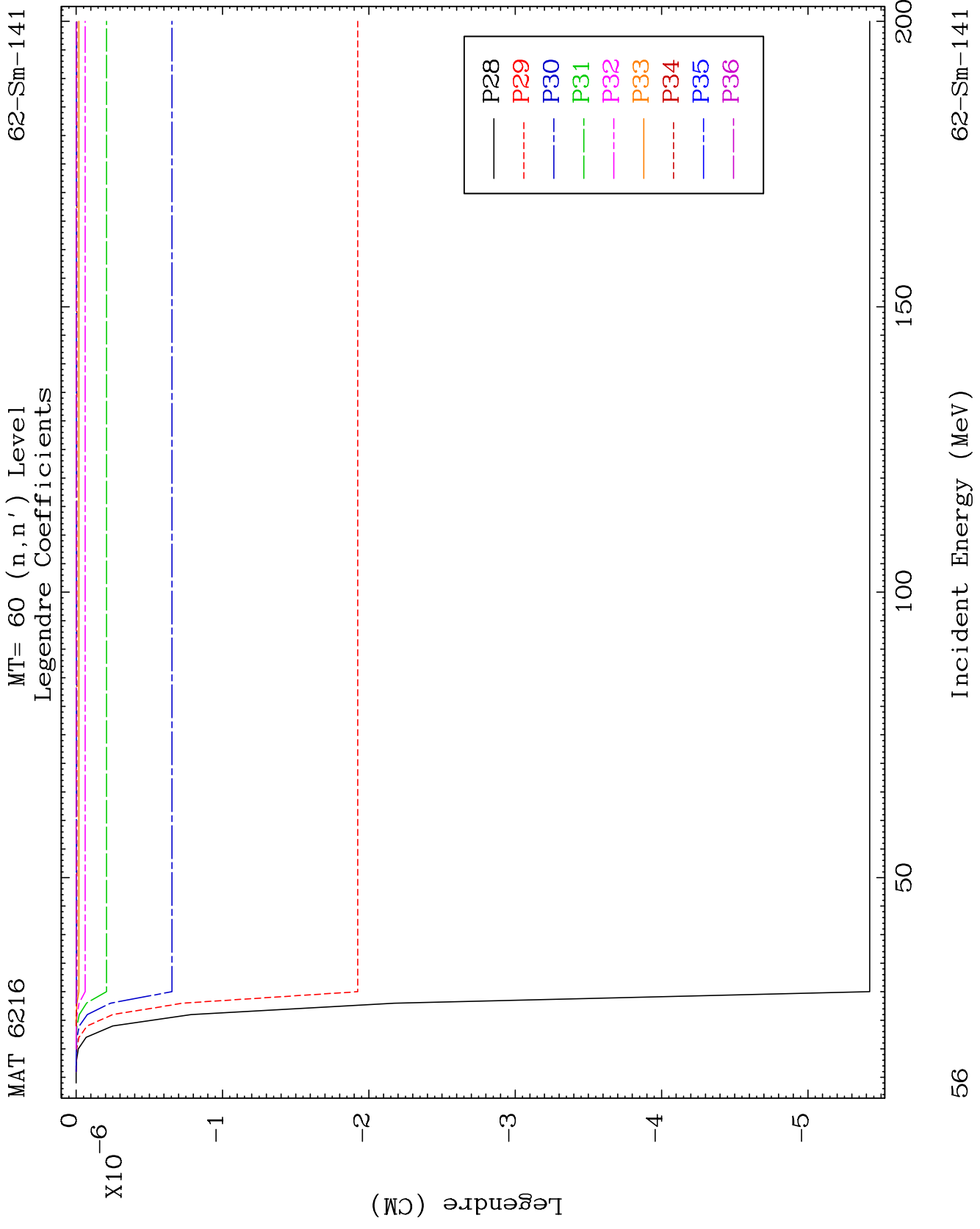
62-Sm-141

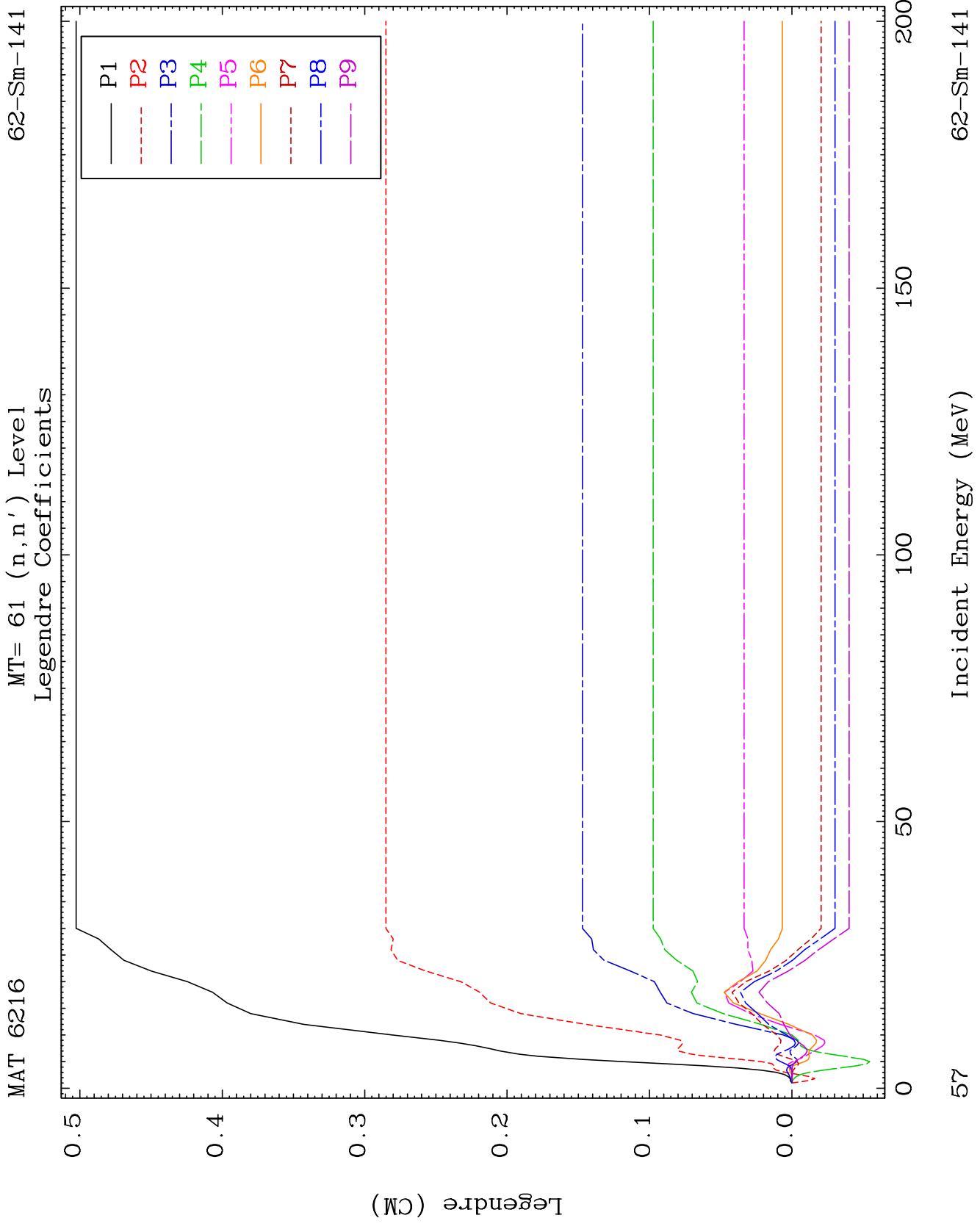


55

Incident Energy (MeV)

62-Sm-141

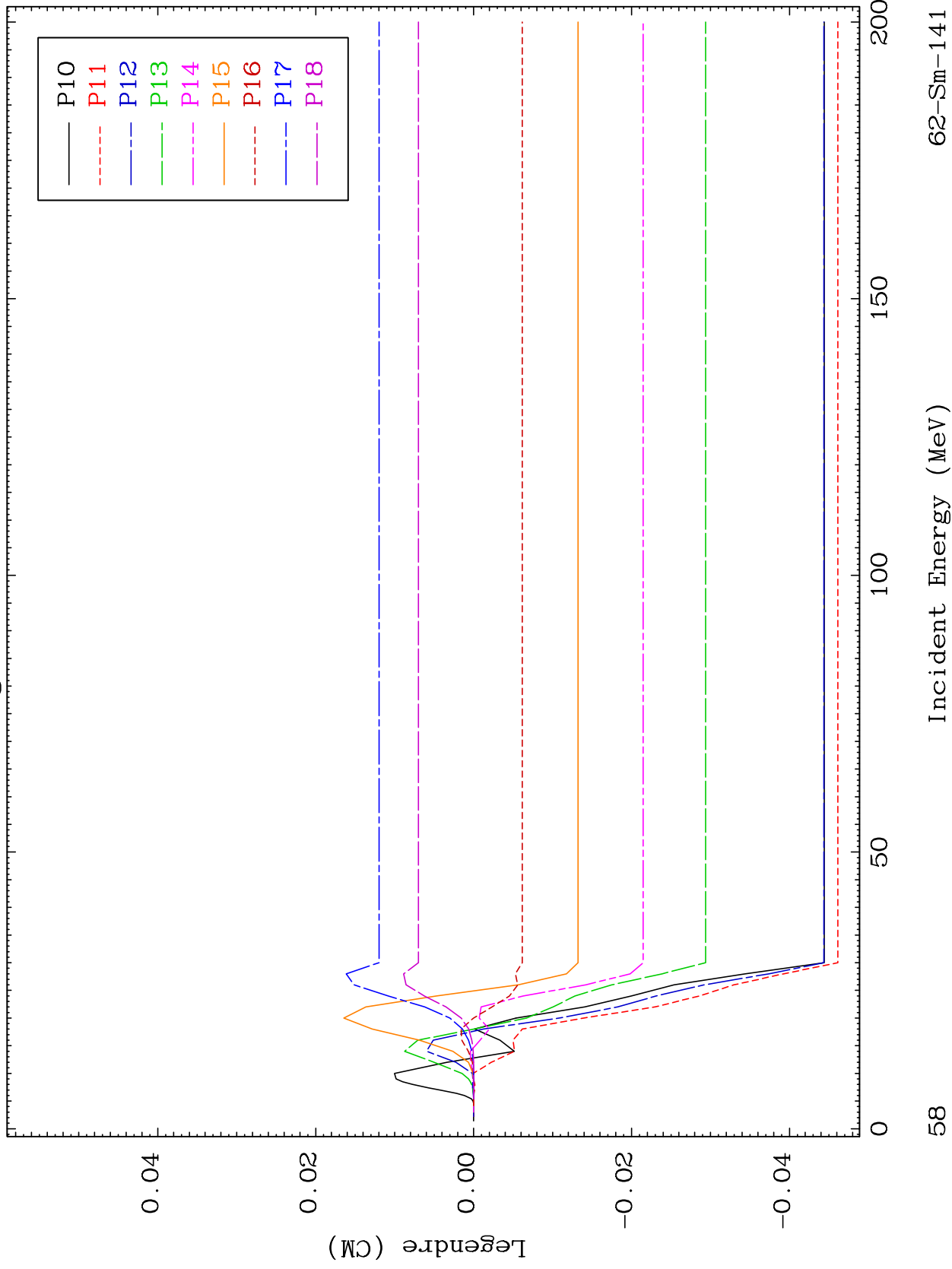


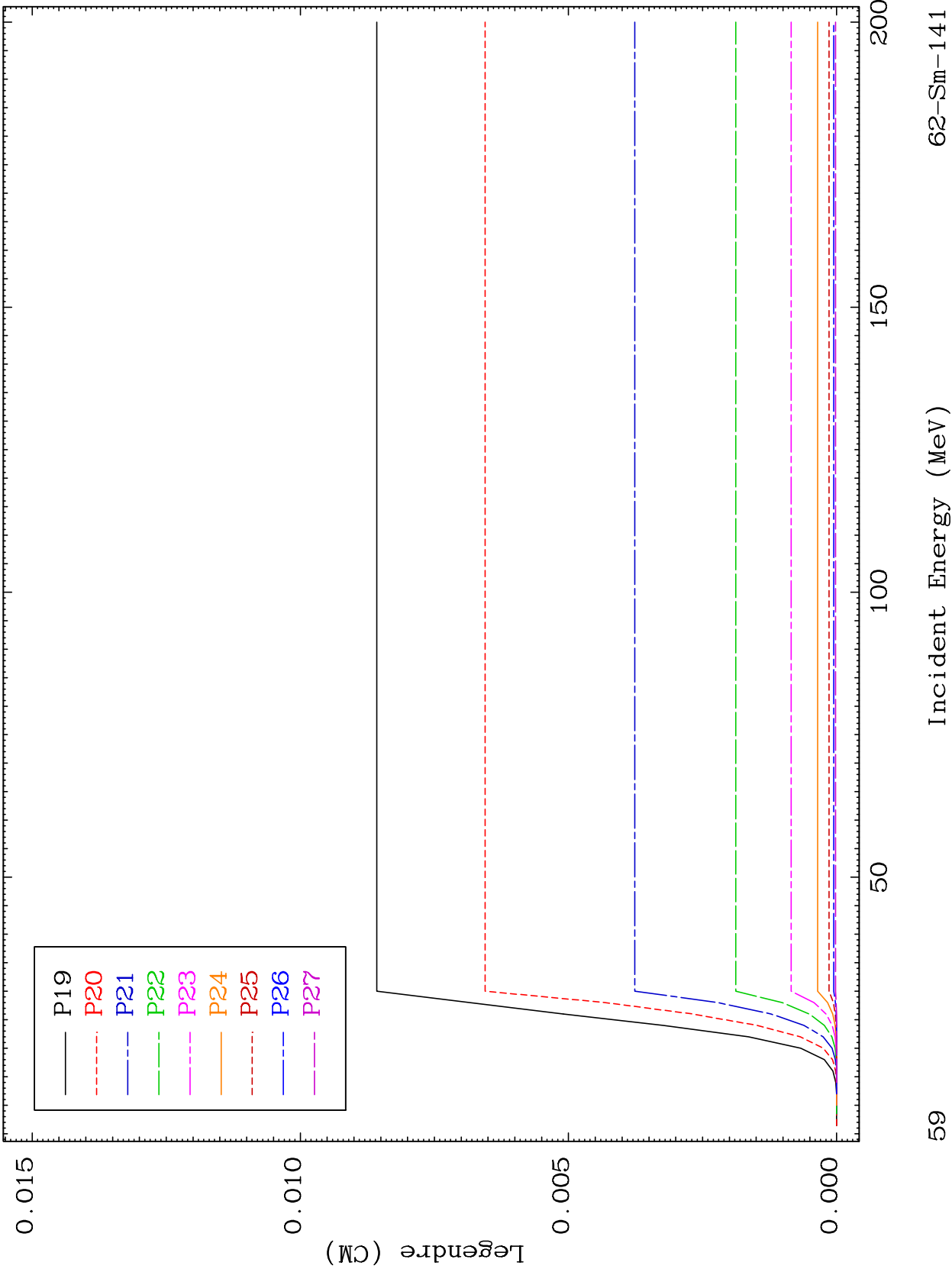


MAT 6216

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

62-Sm-141

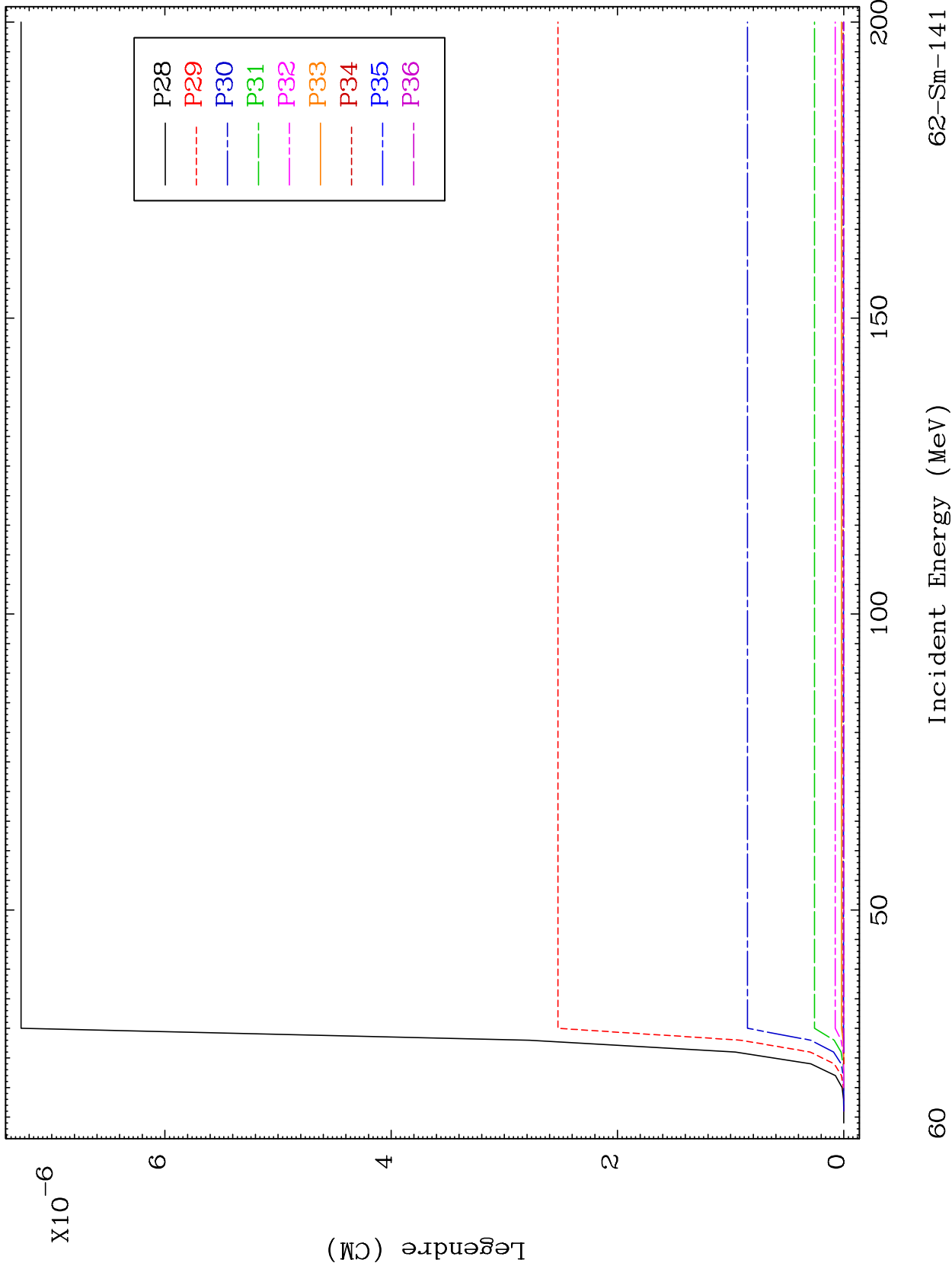




MAT 6216

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

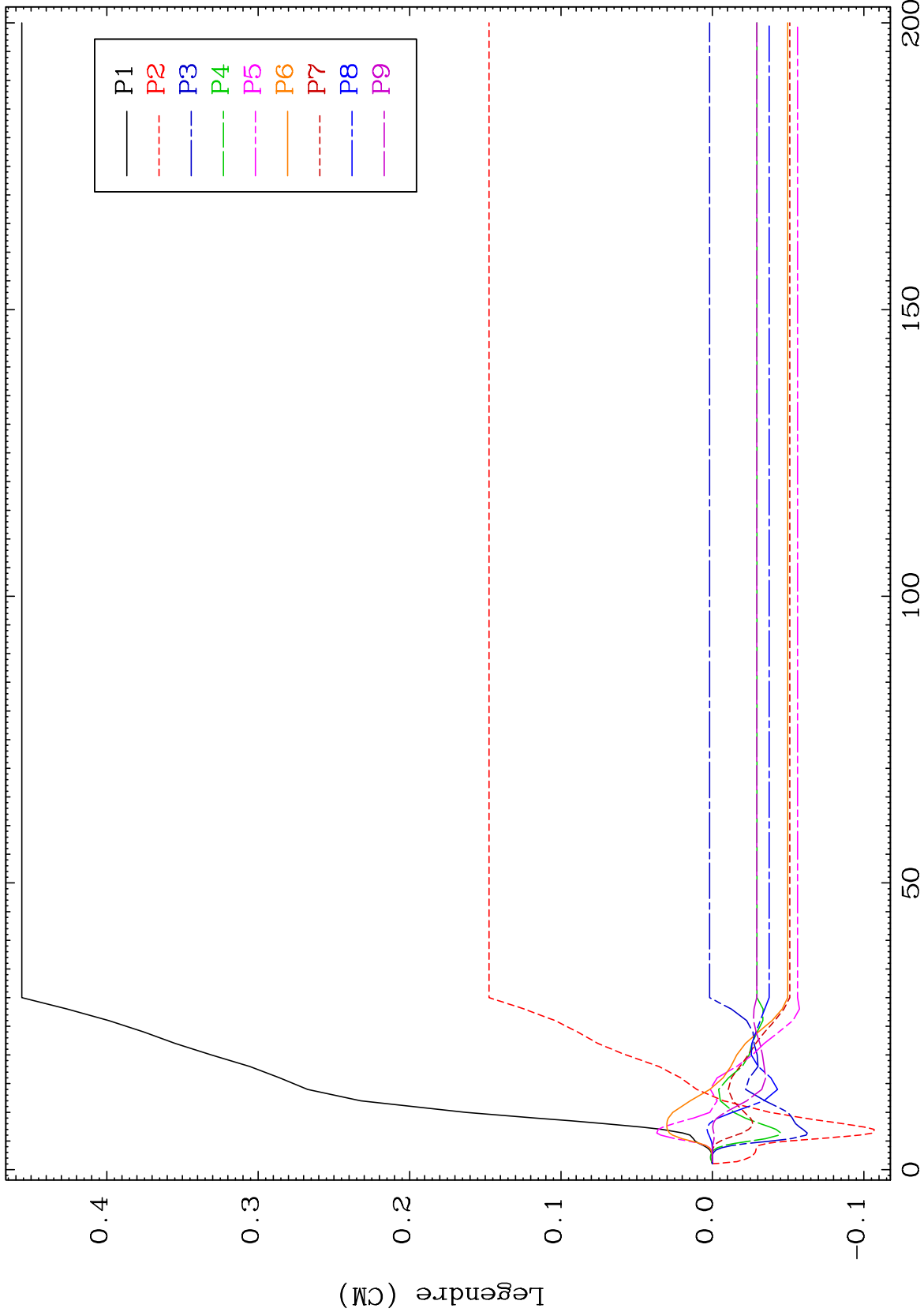
62-Sm-141



MAT 6216

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

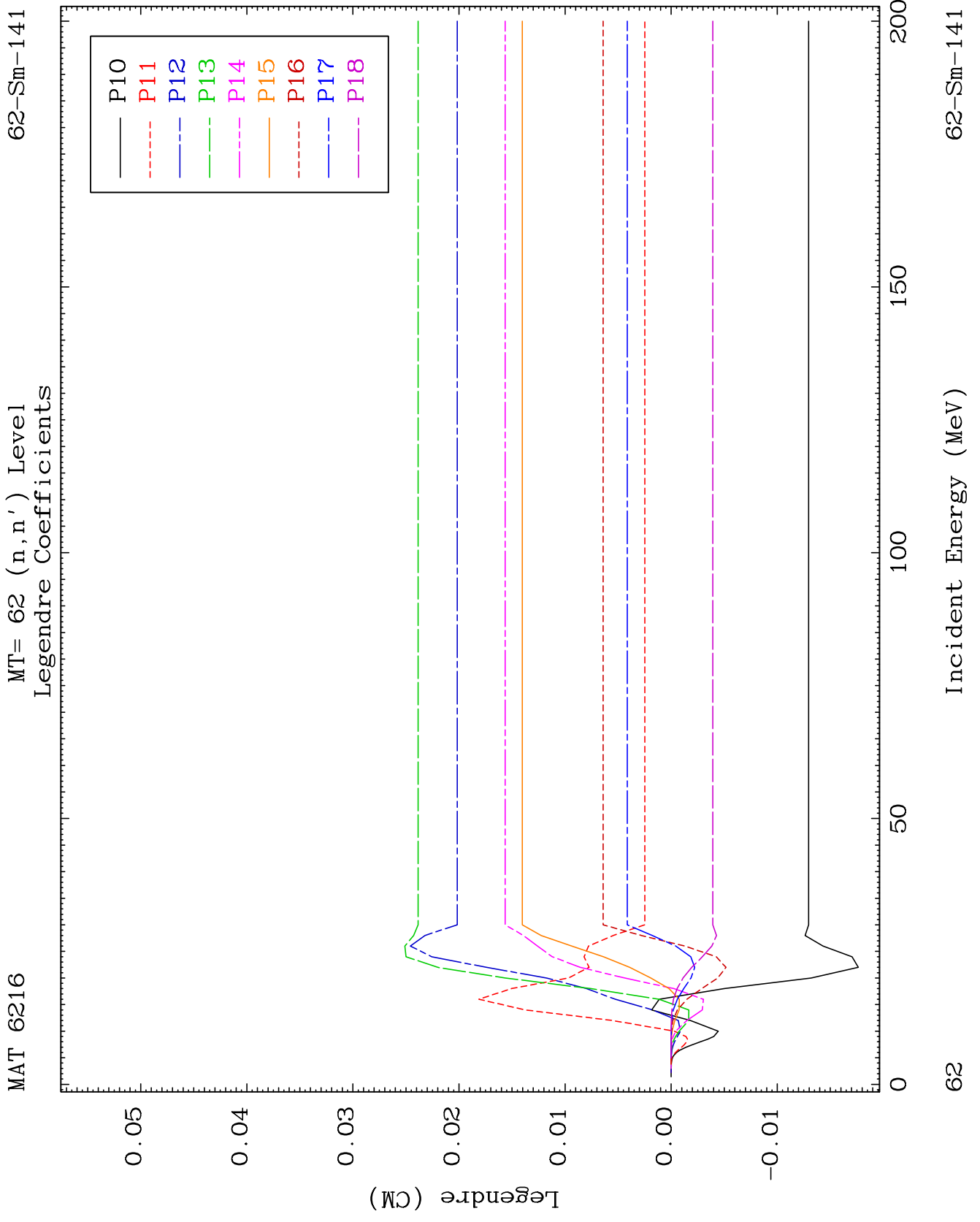
62-Sm-141



61

Incident Energy (MeV)

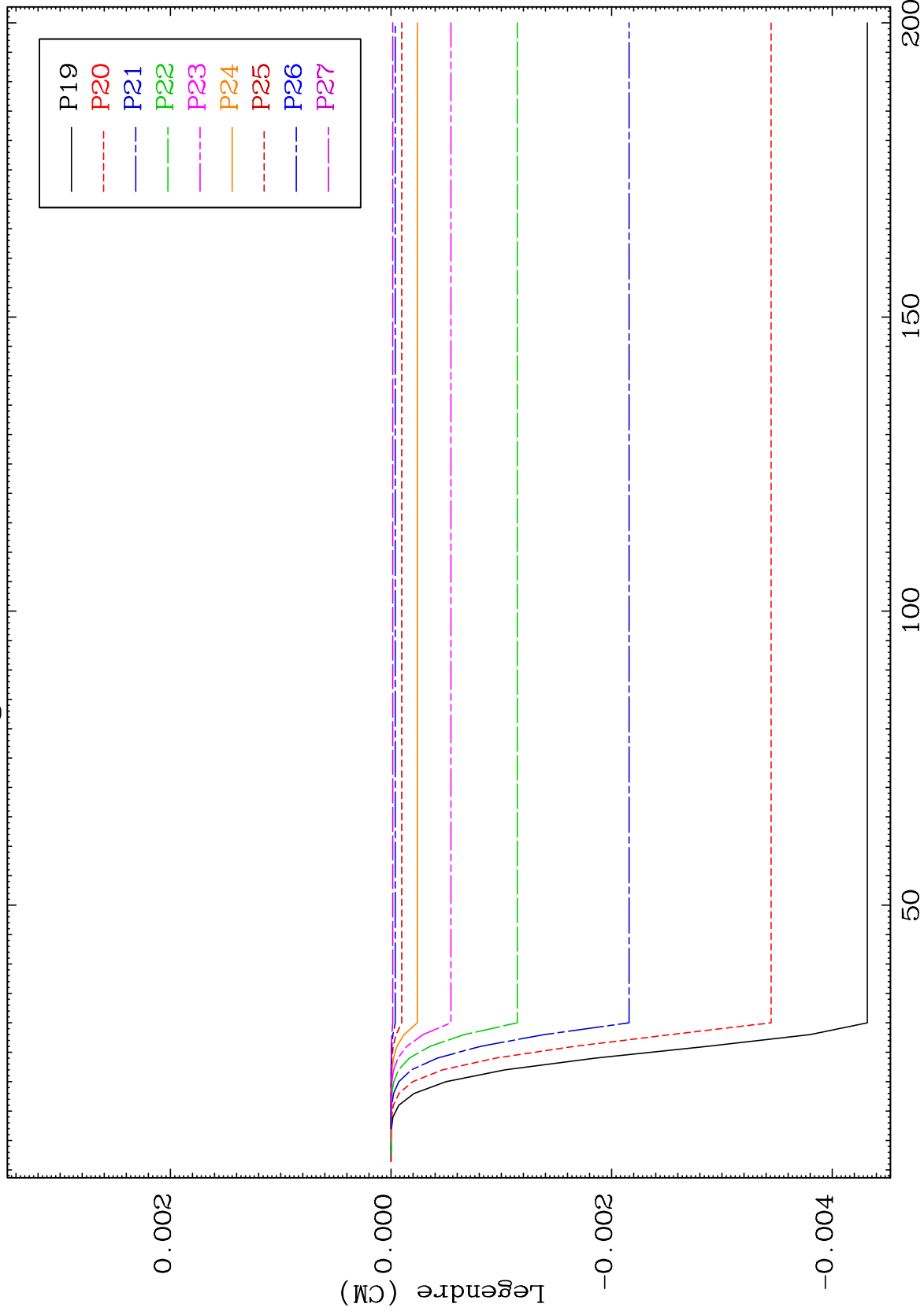
62-Sm-141



MAT 6216

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

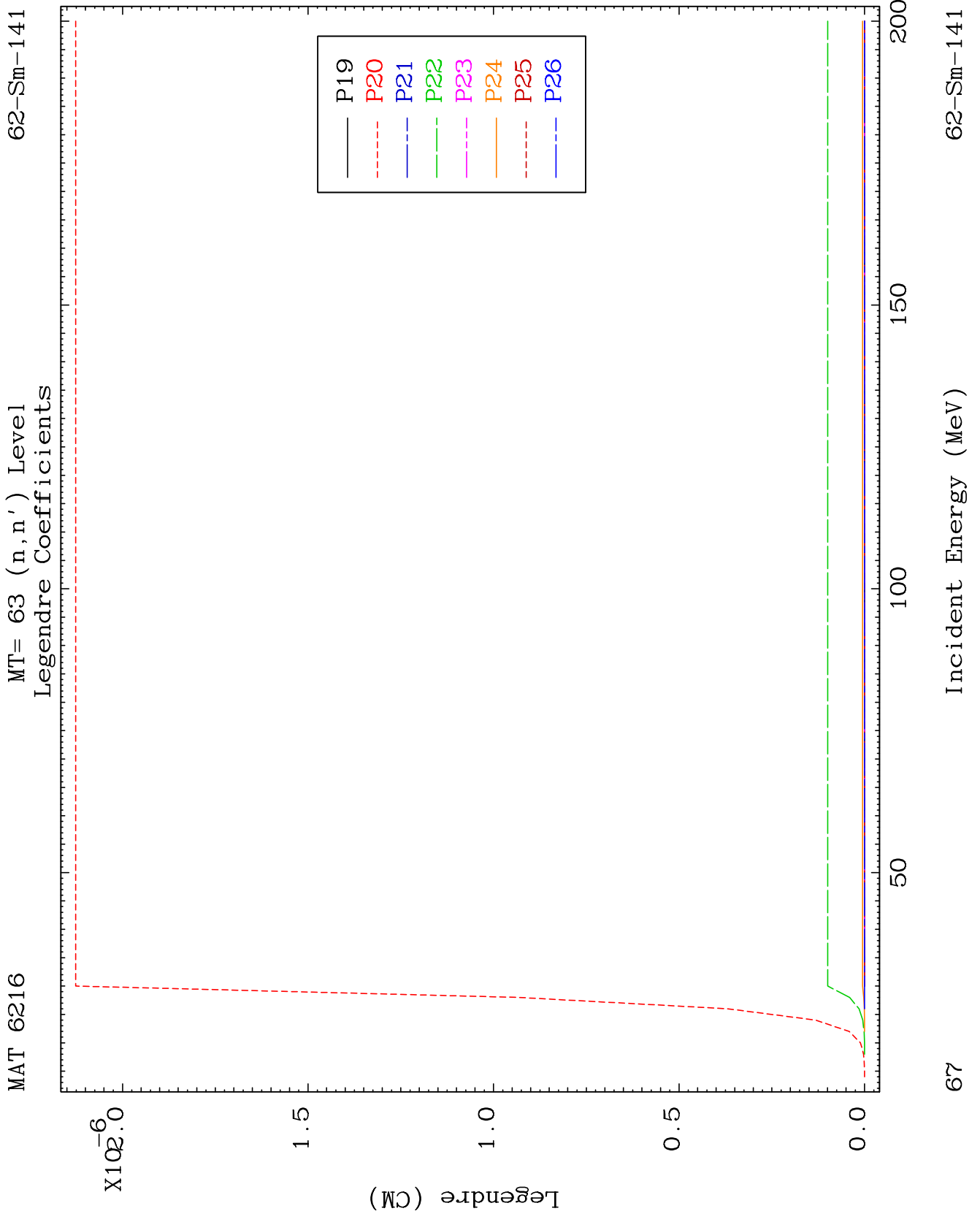
62-Sm-141



63

Incident Energy (MeV)

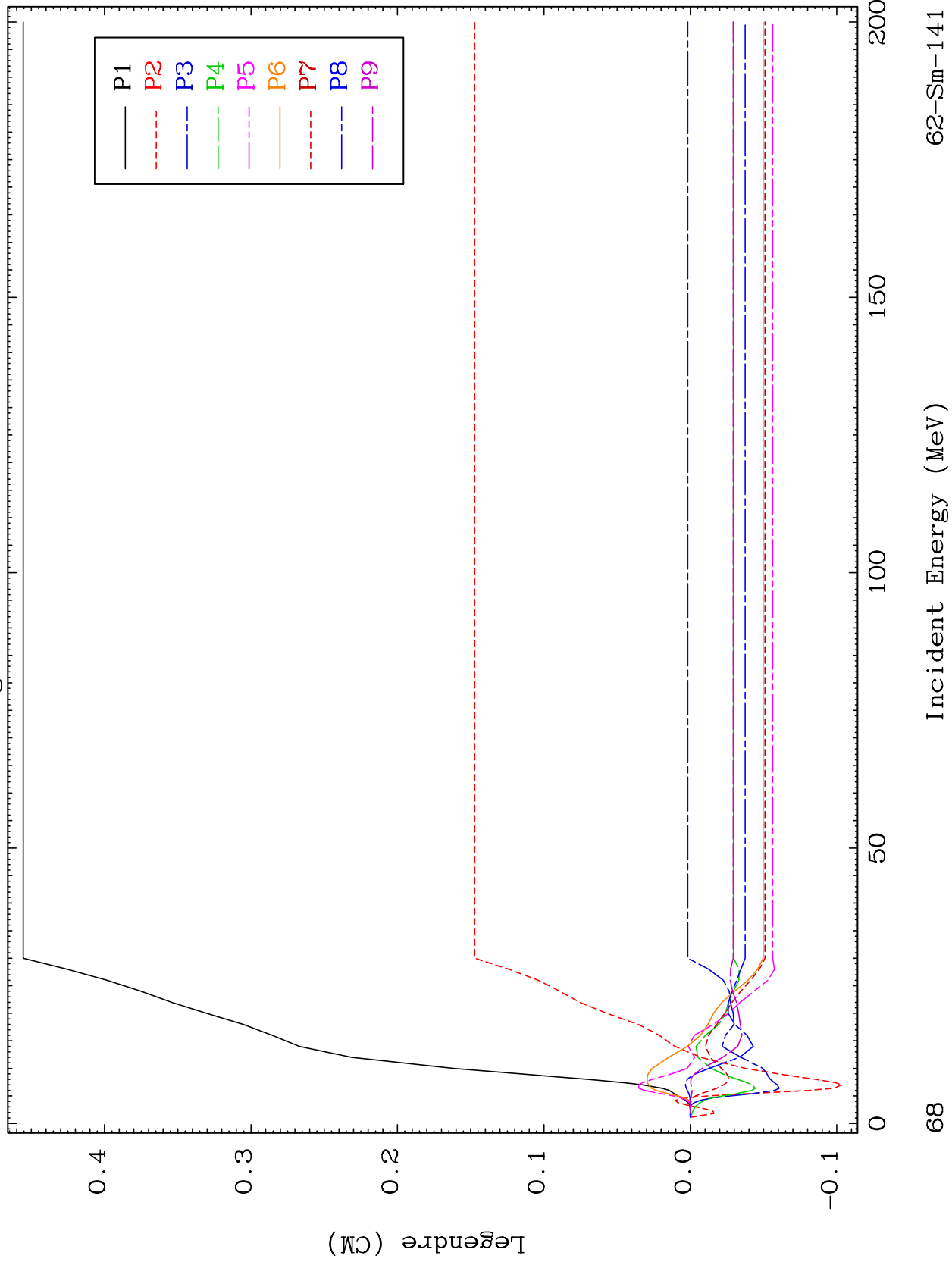
62-Sm-141



MAT 6216

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

62-Sm-141



62-Sm-141

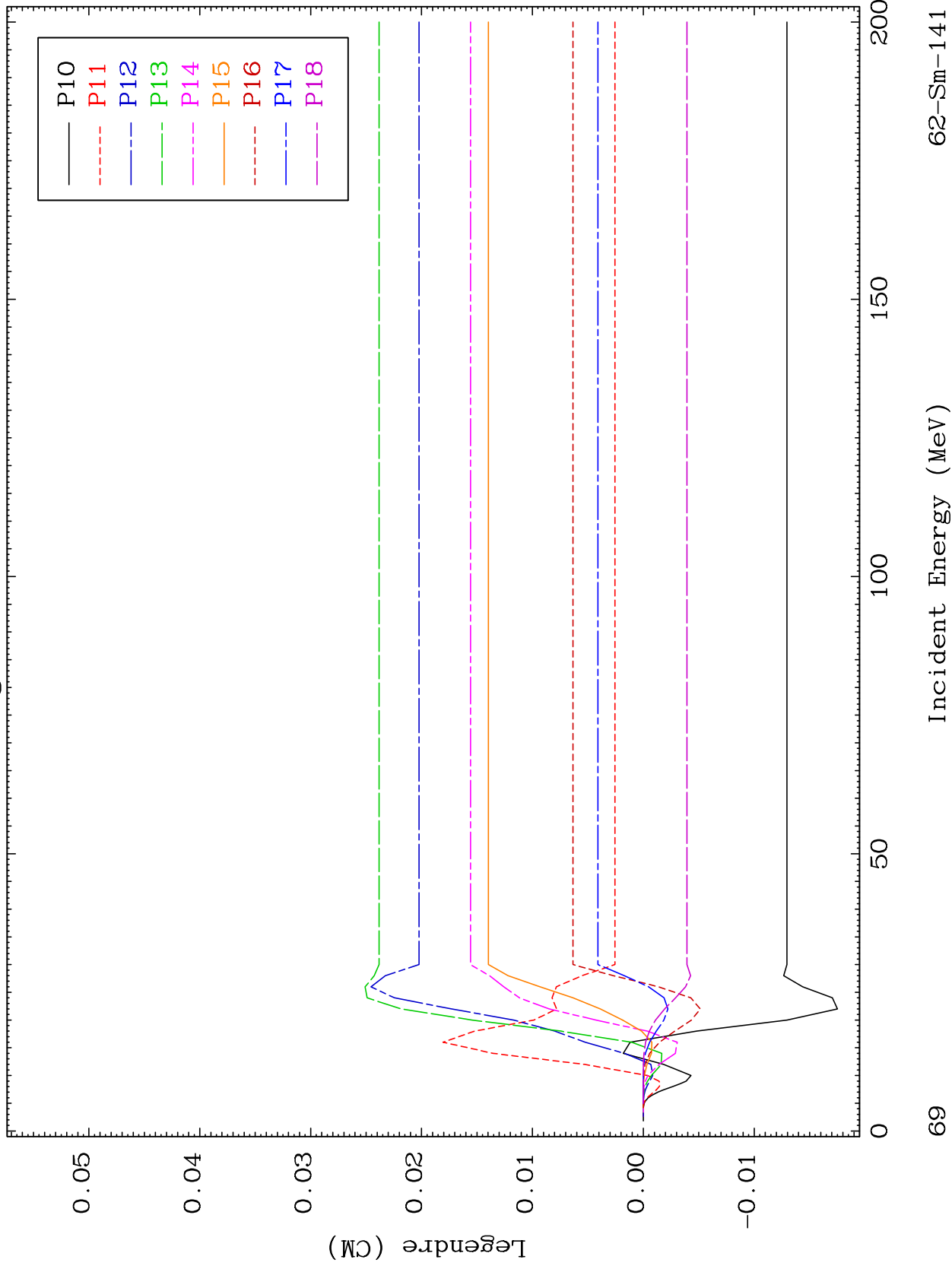
Incident Energy (MeV)

68

MAT 6216

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

62-Sm-141



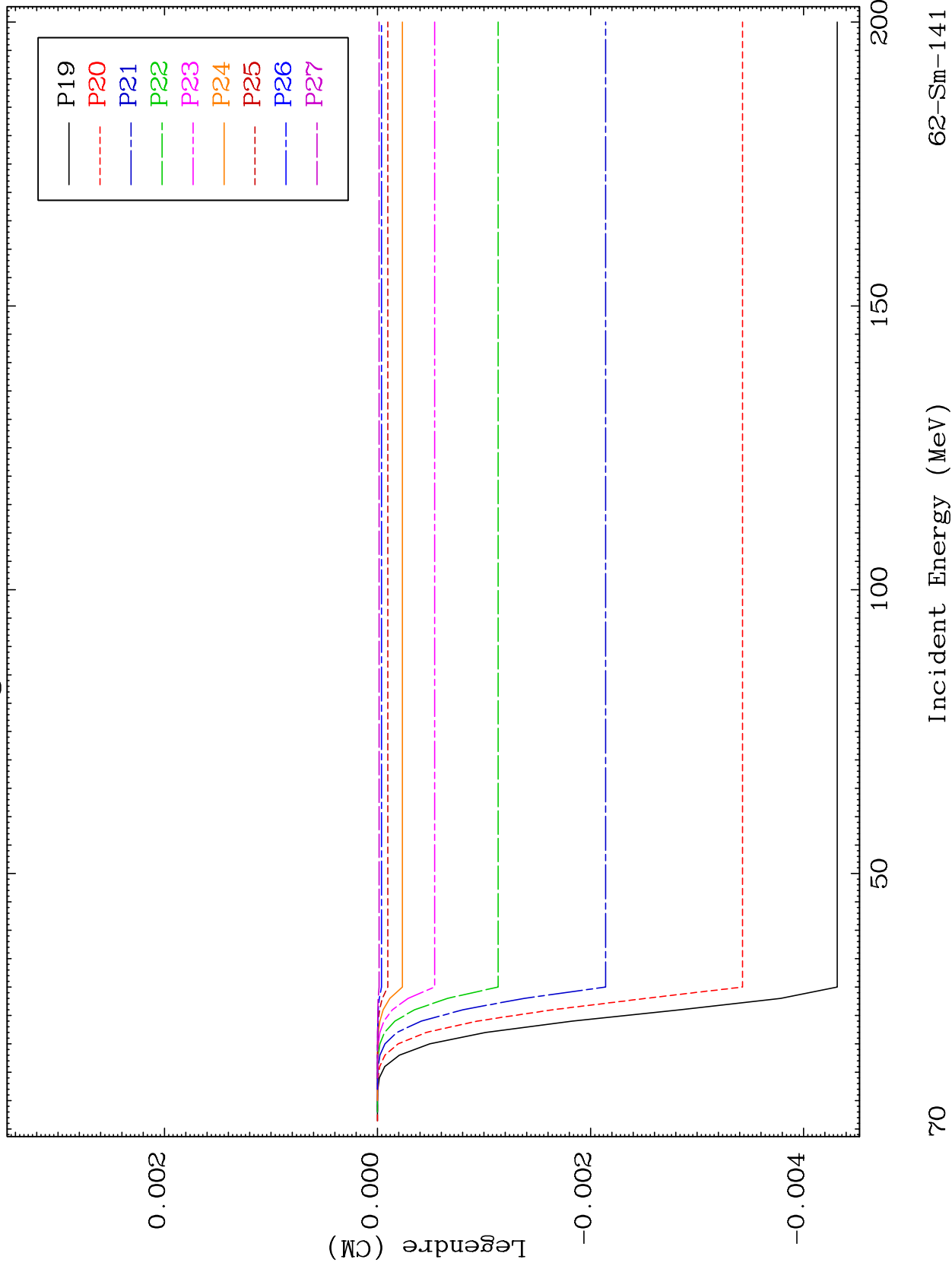
69

62-Sm-141

MAT 6216

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

62-Sm-141



70

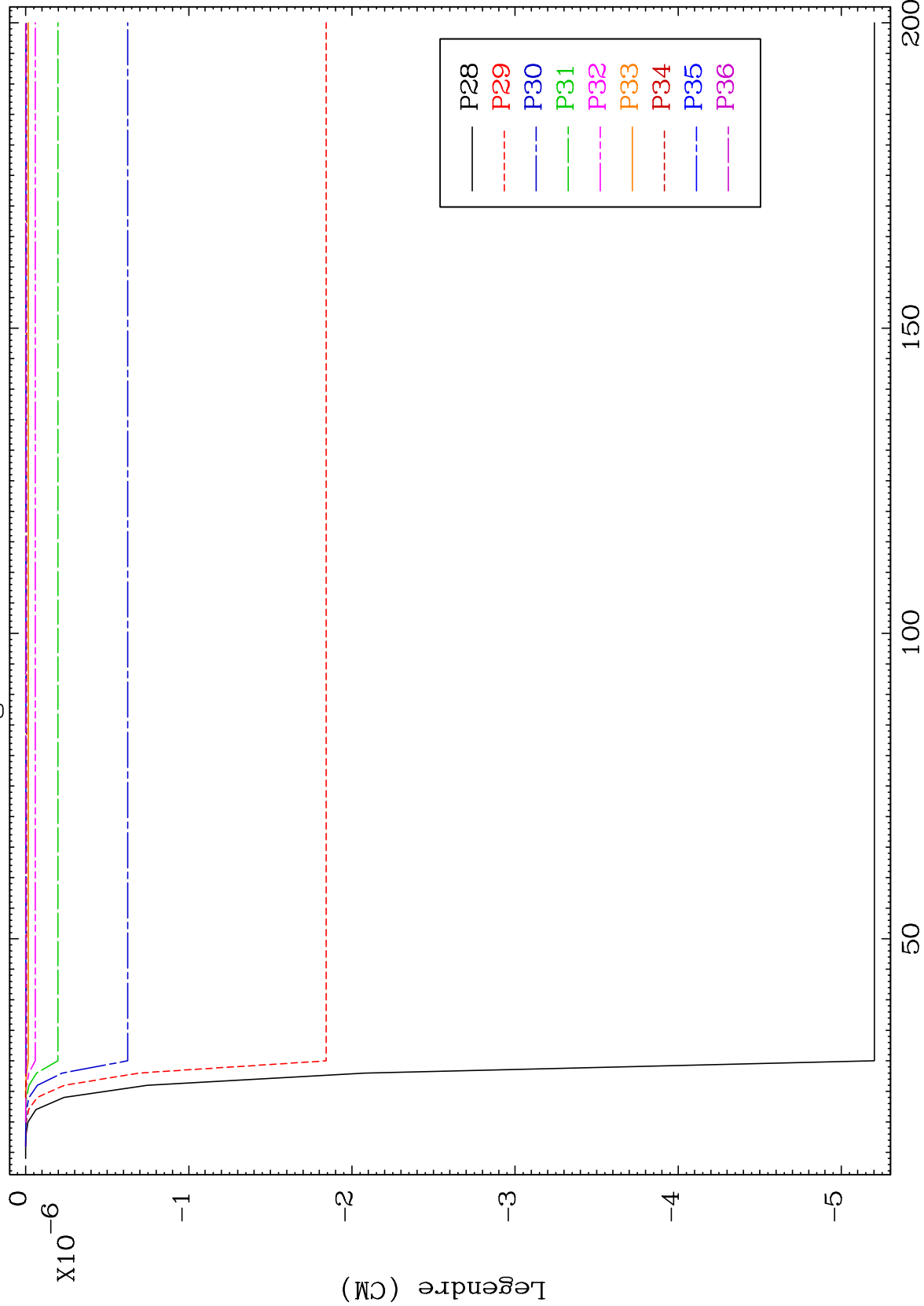
Incident Energy (MeV)

62-Sm-141

MAT 6216

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

62-Sm-141



71

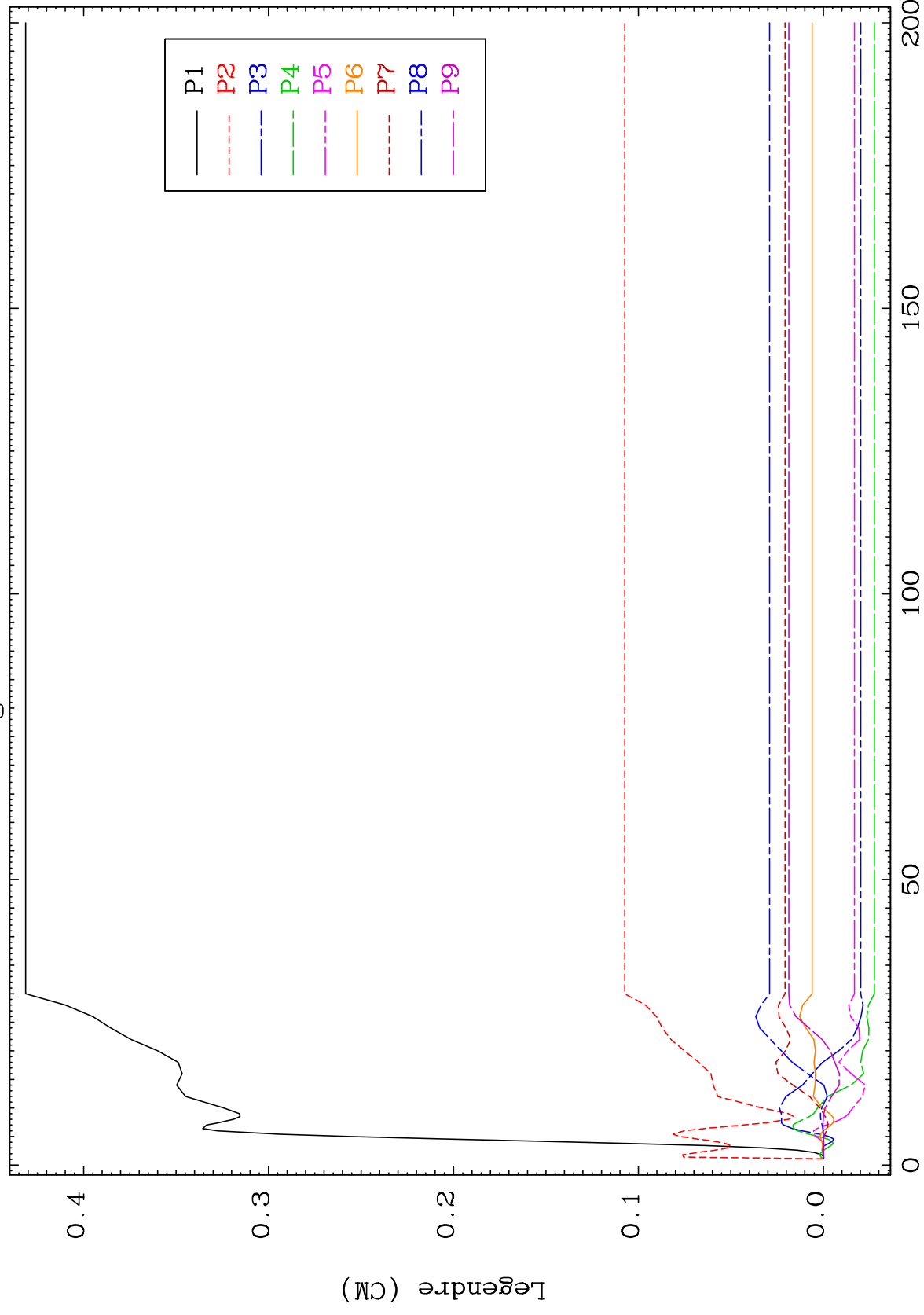
Incident Energy (MeV)

62-Sm-141

MAT 6216

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

62-Sm-141



72

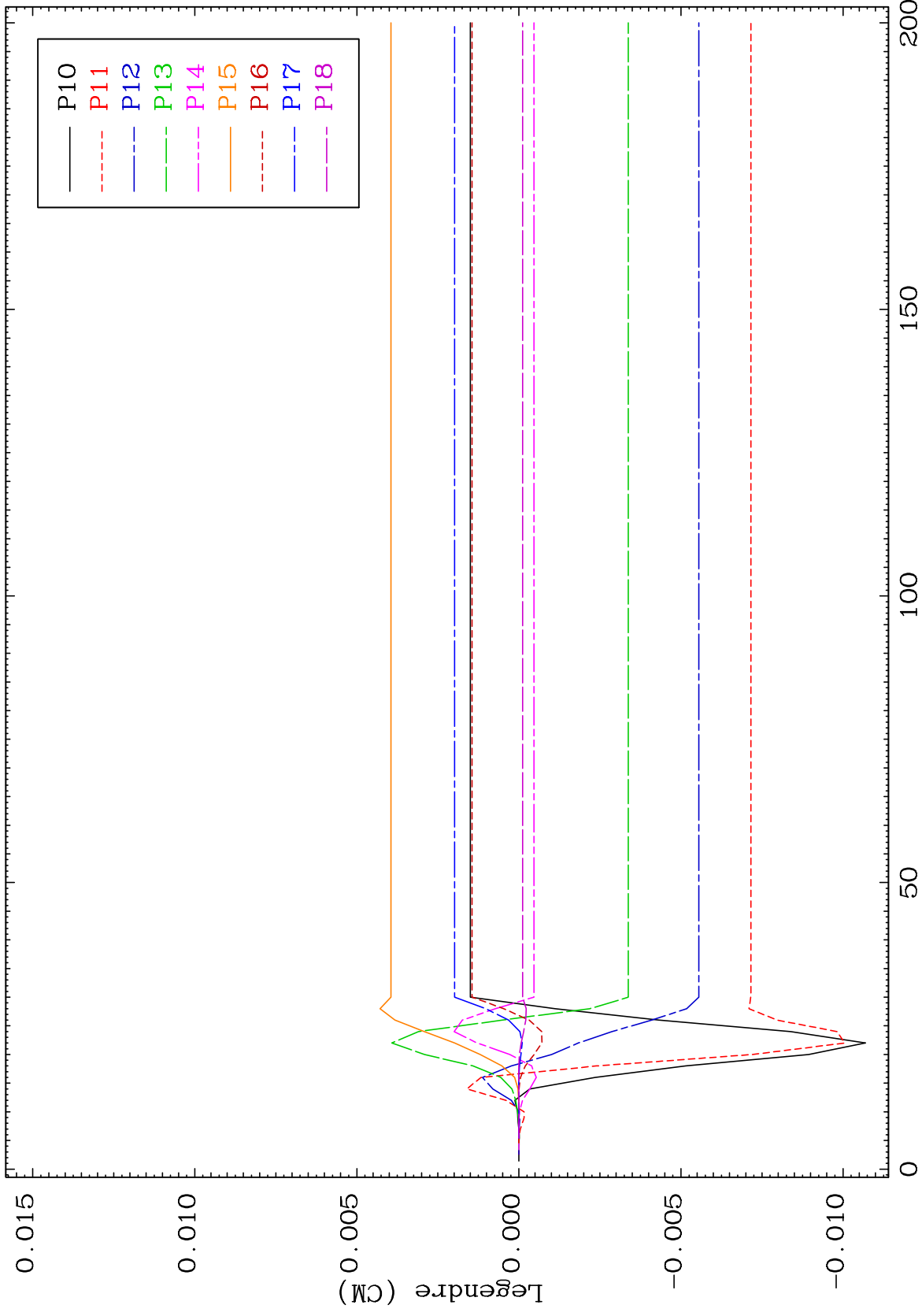
Incident Energy (MeV)

62-Sm-141

MAT 6216

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

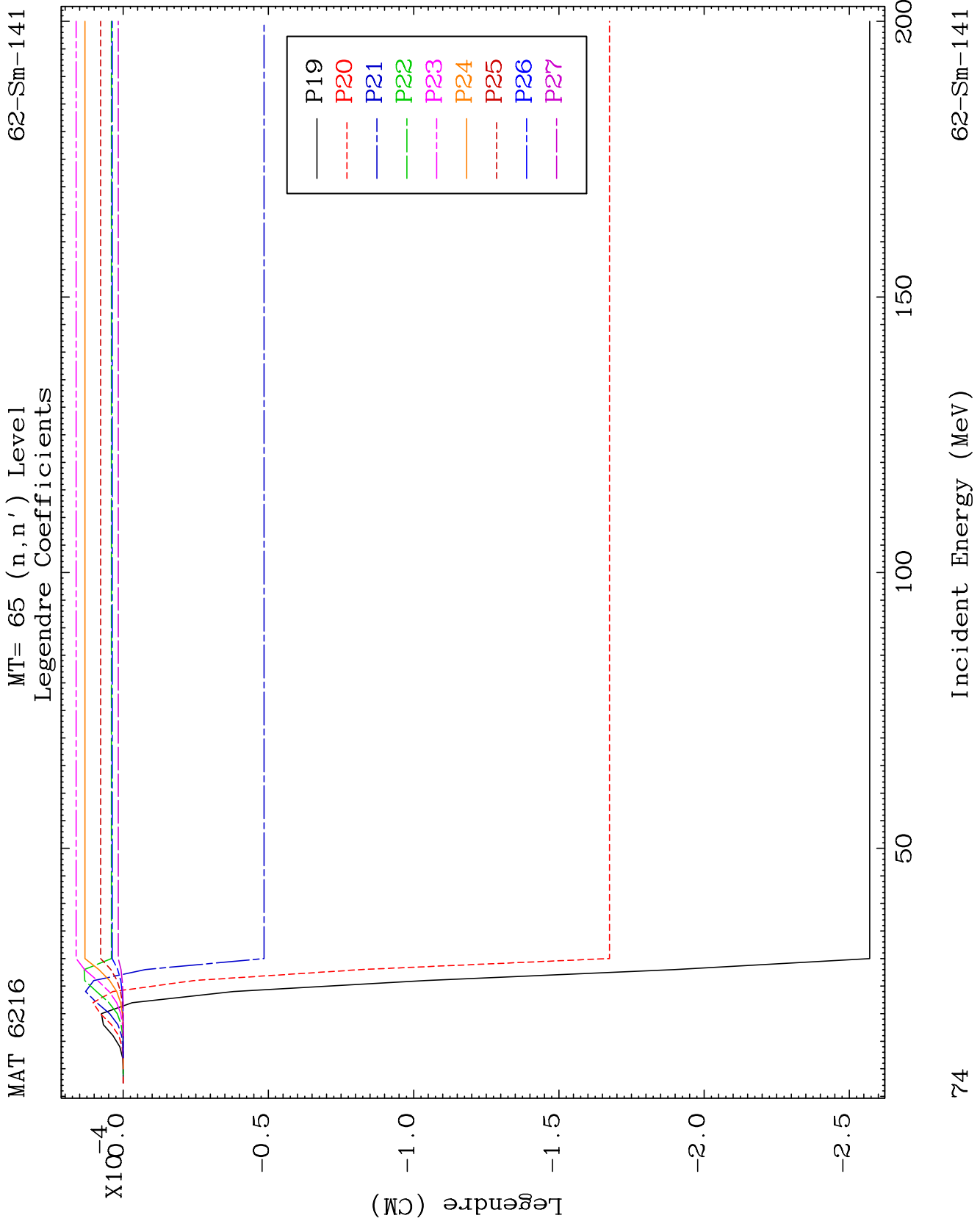
62-Sm-141



73

Incident Energy (MeV)

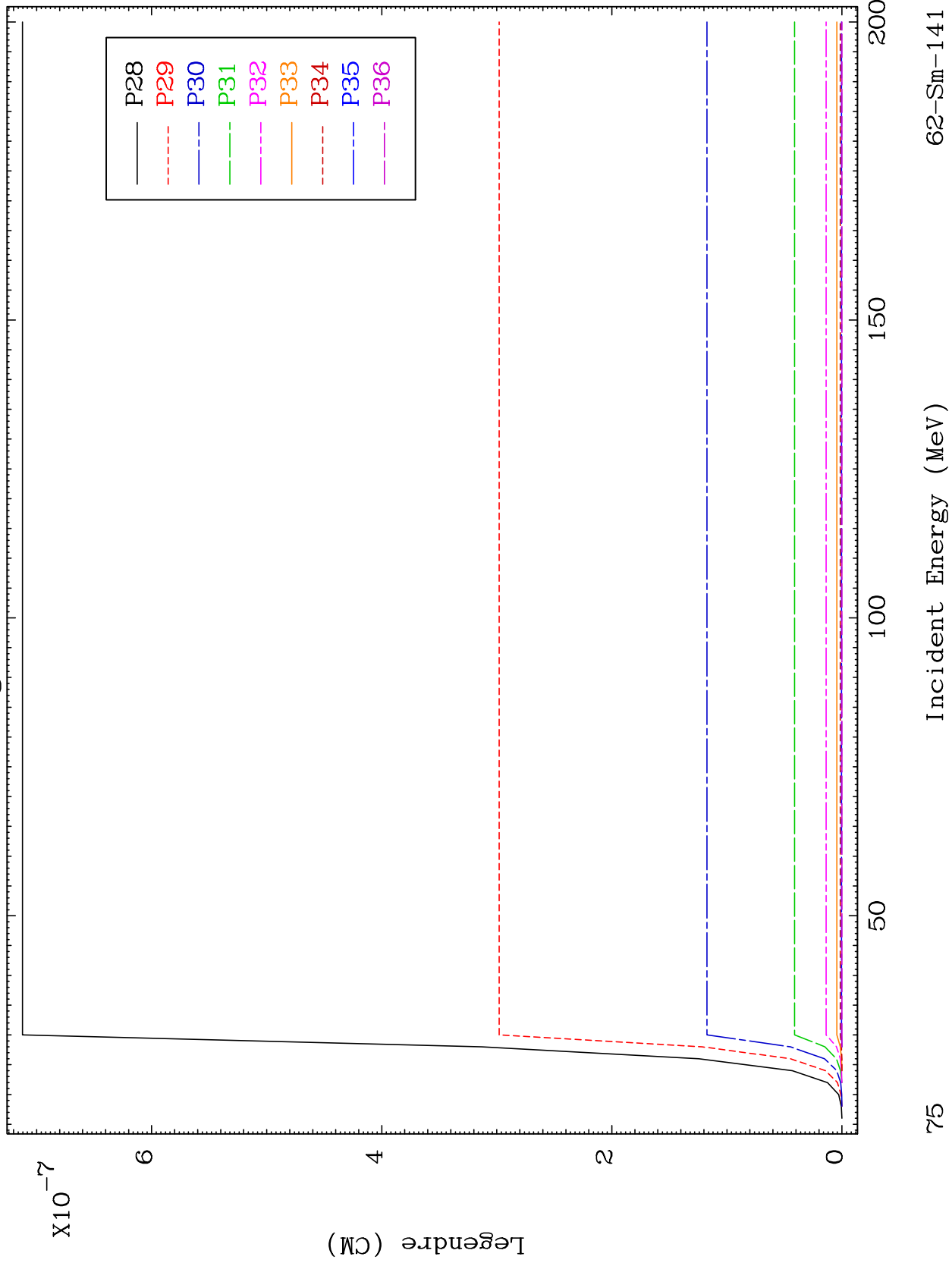
62-Sm-141



MAT 6216

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

62-Sm-141



75

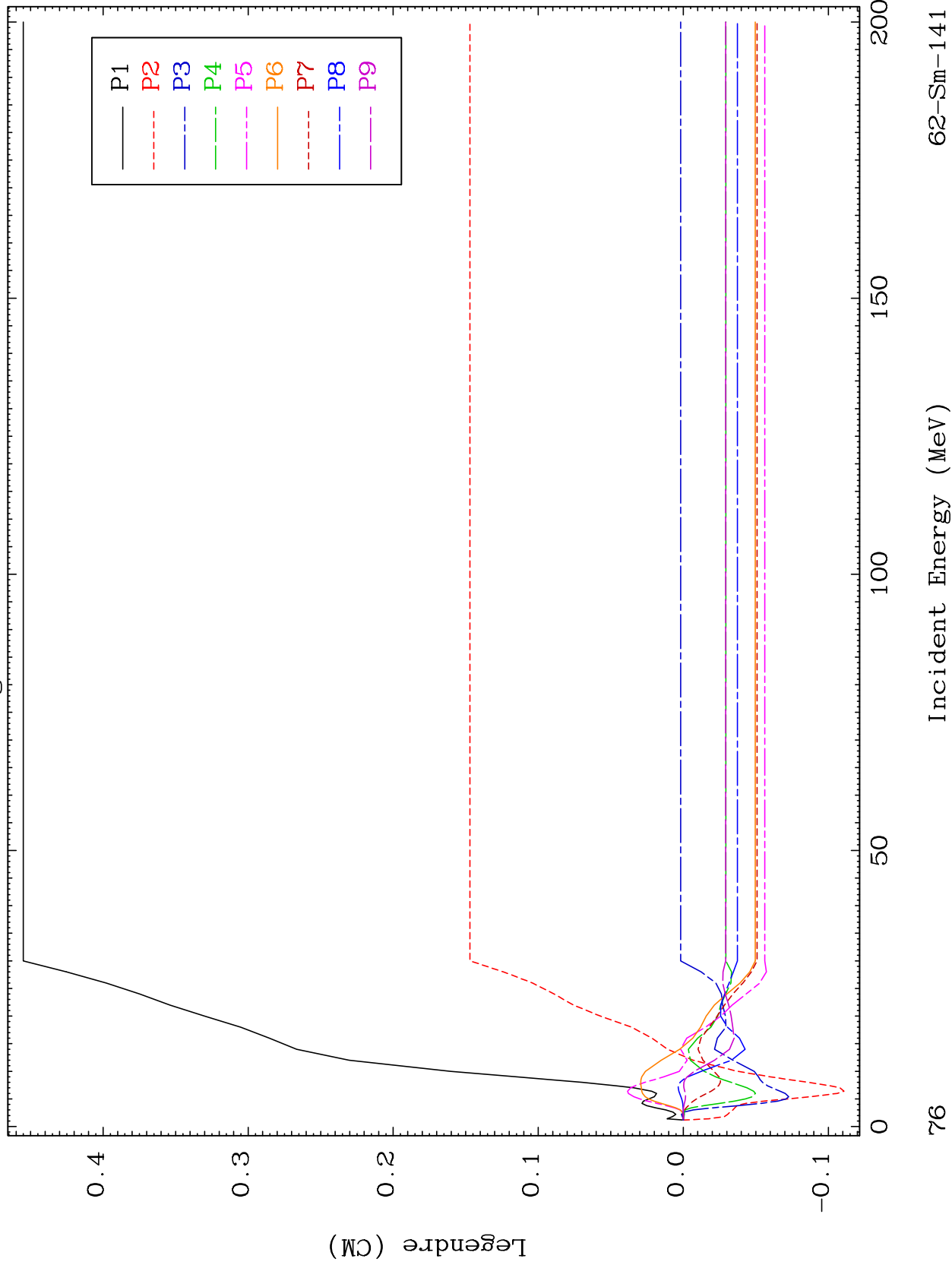
Incident Energy (MeV)

62-Sm-141

MAT 6216

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

62-Sm-141



62-Sm-141

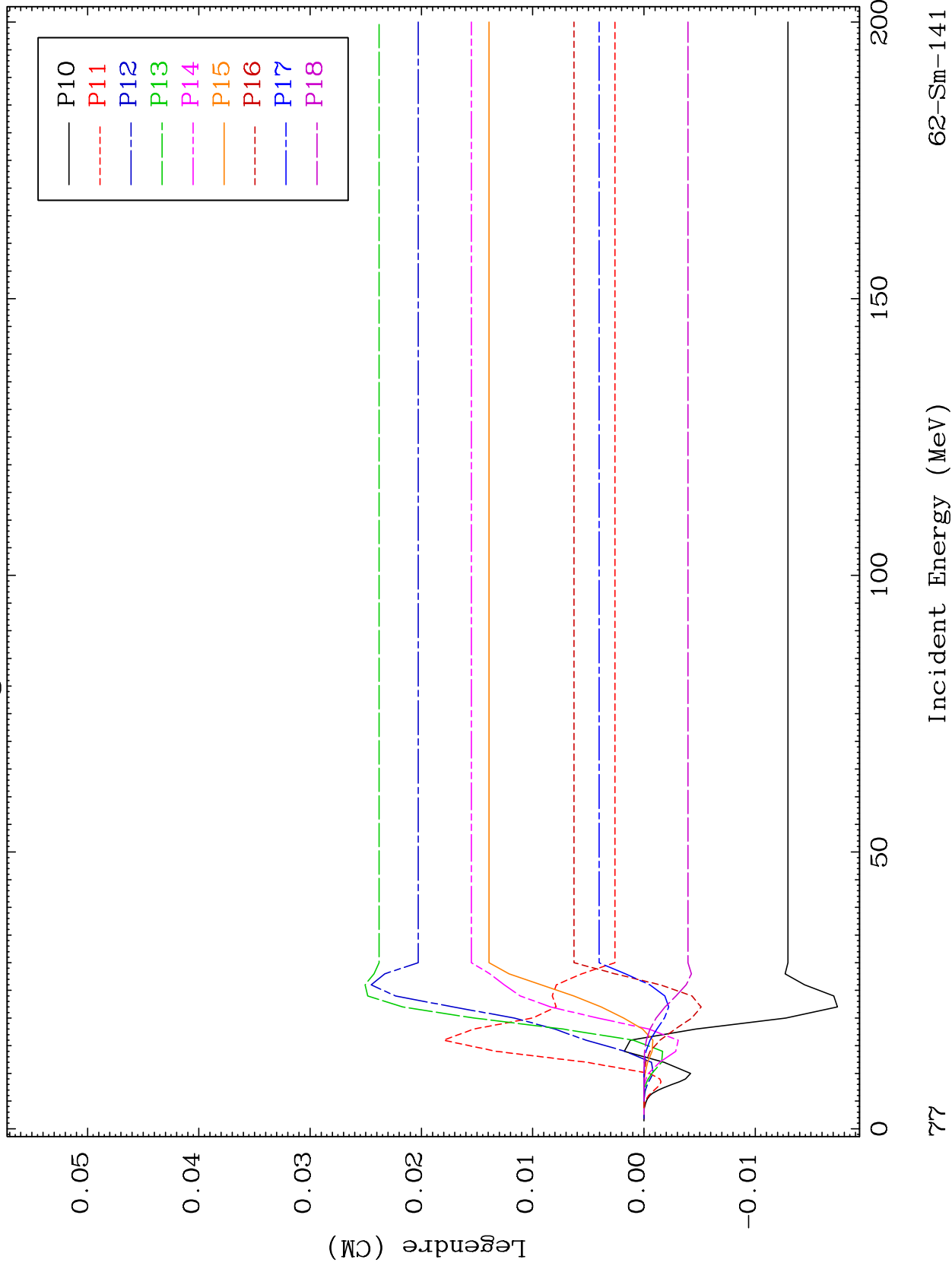
Incident Energy (MeV)

76

MAT 6216

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

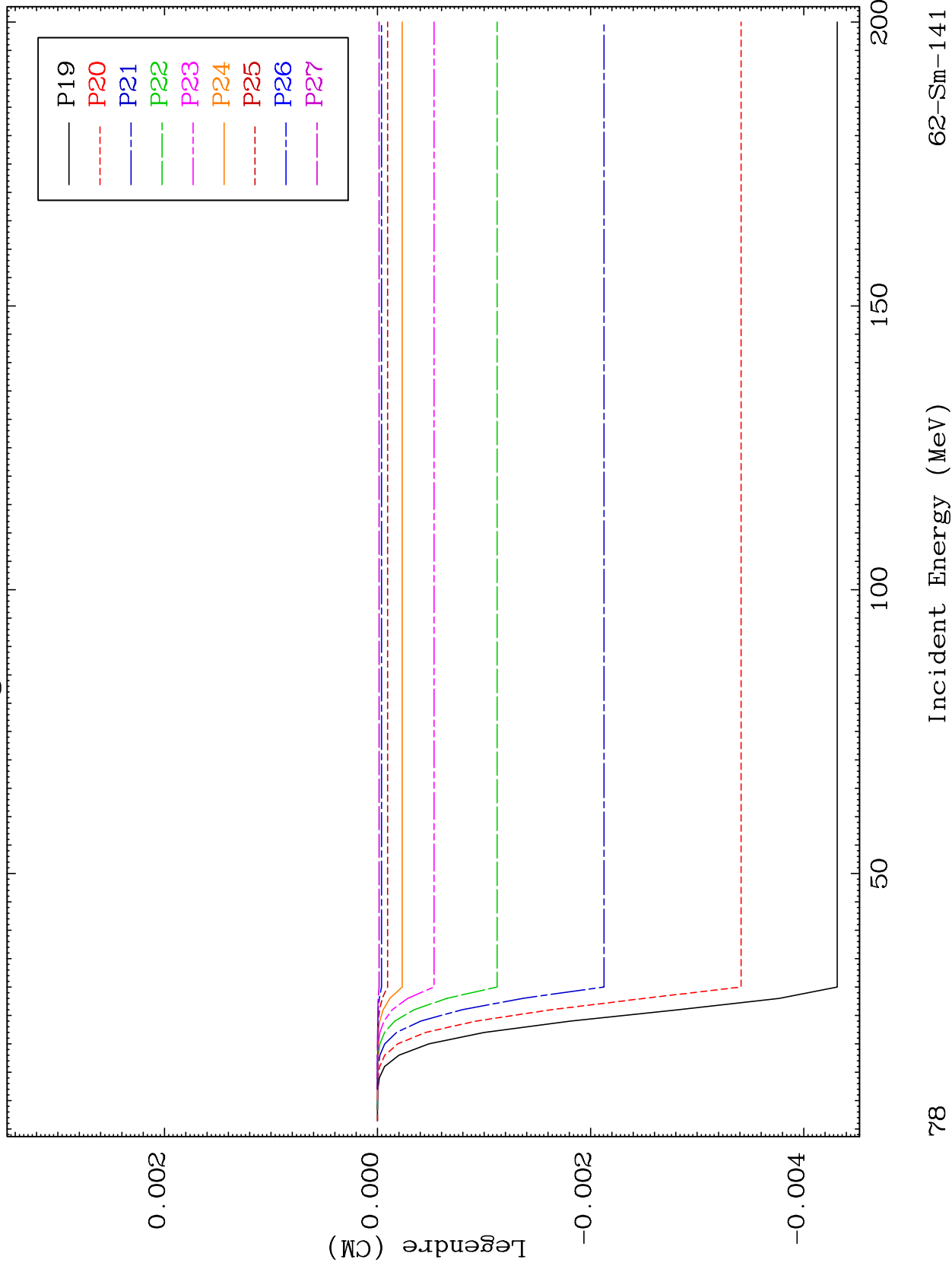
62-Sm-141



MAT 6216

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

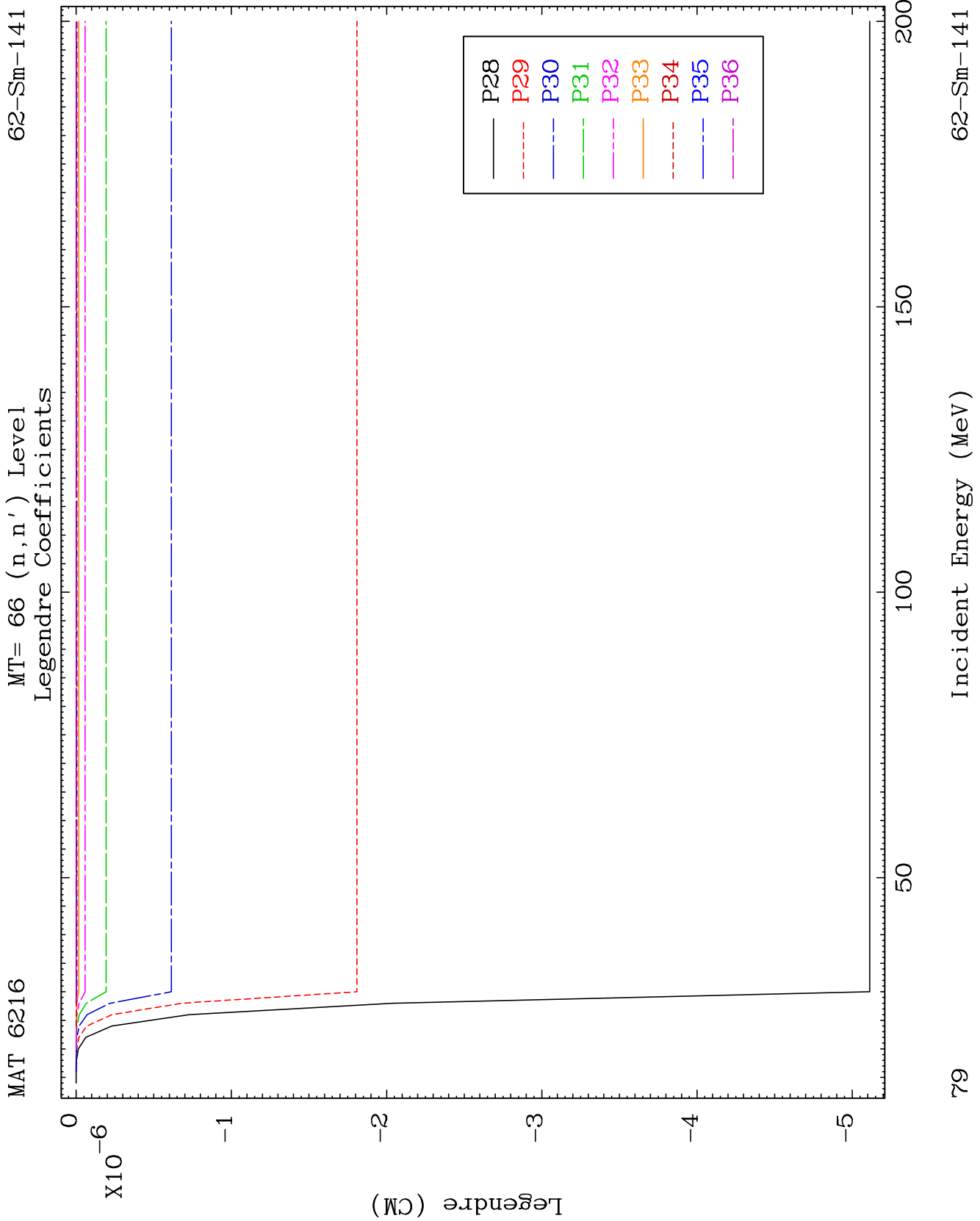
62-Sm-141

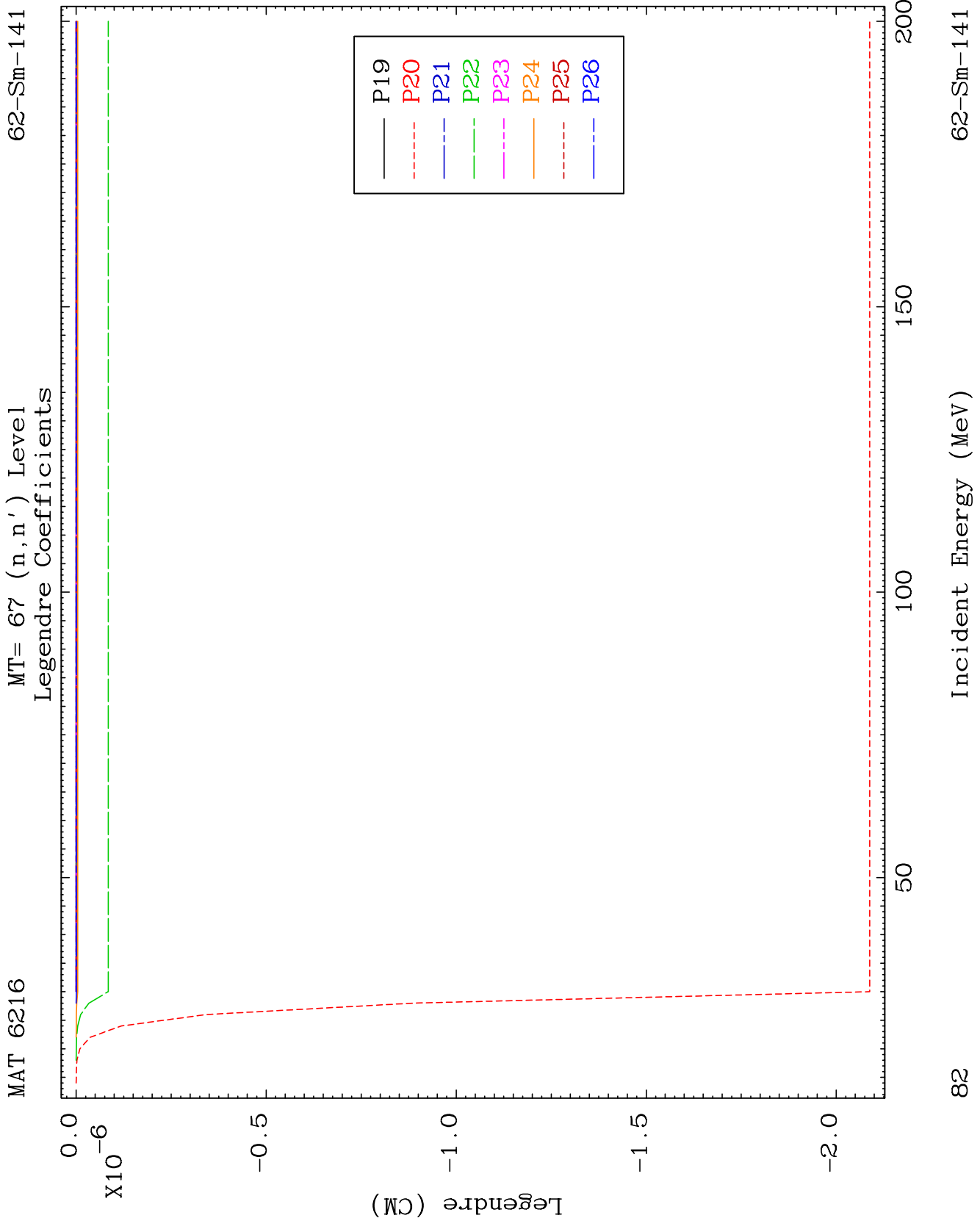


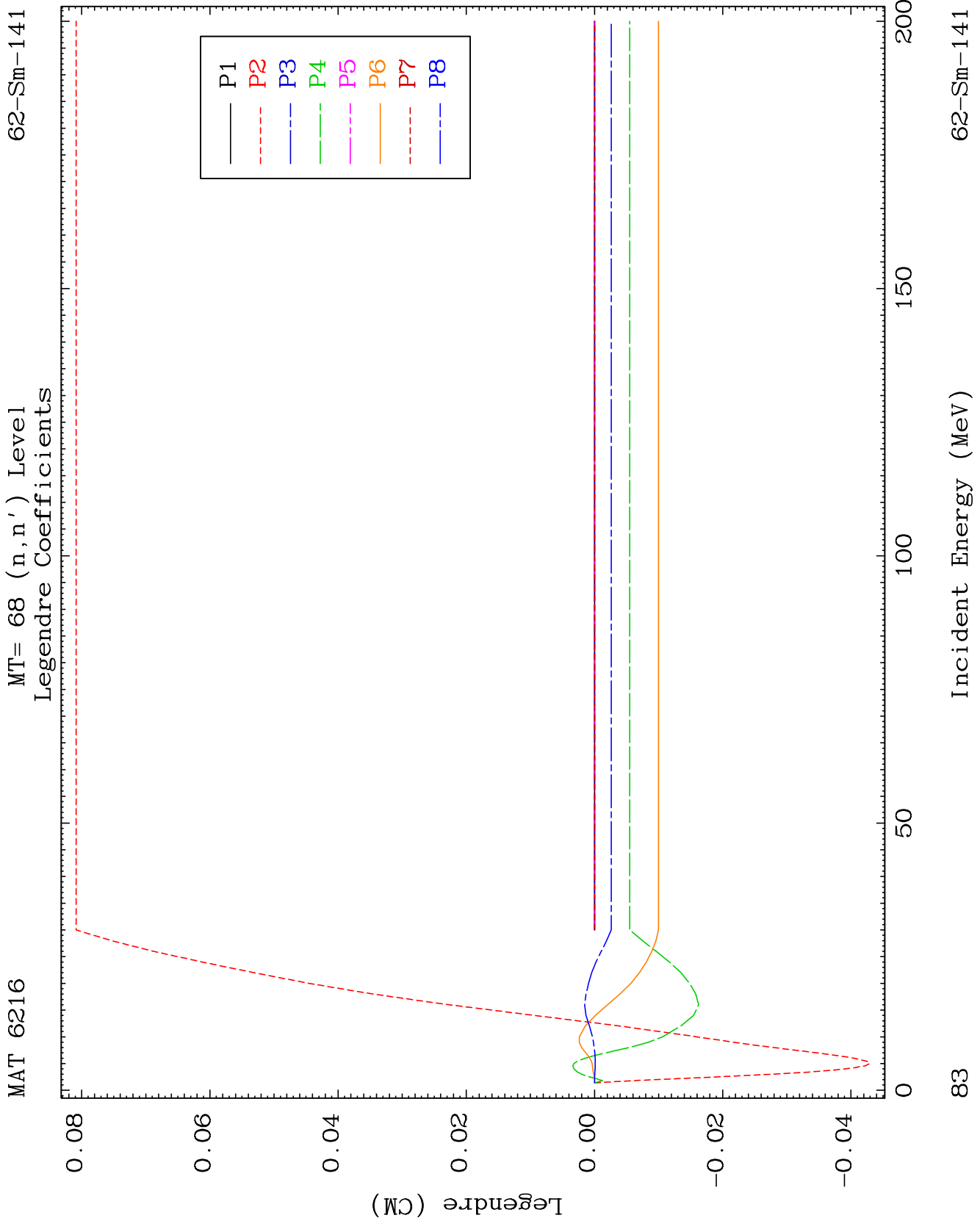
78

Incident Energy (MeV)

62-Sm-141



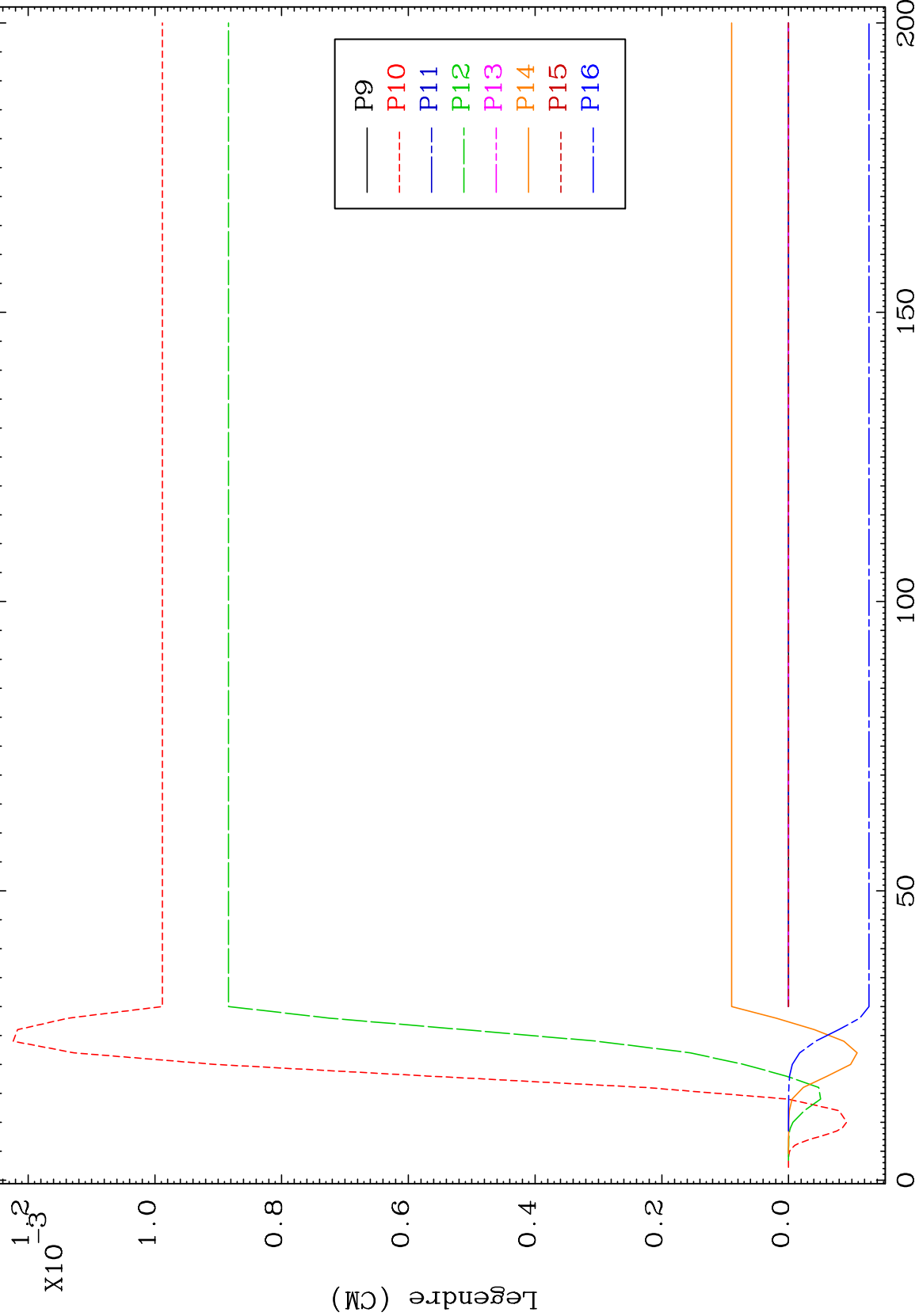




MAT 6216

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

62-Sm-141



84

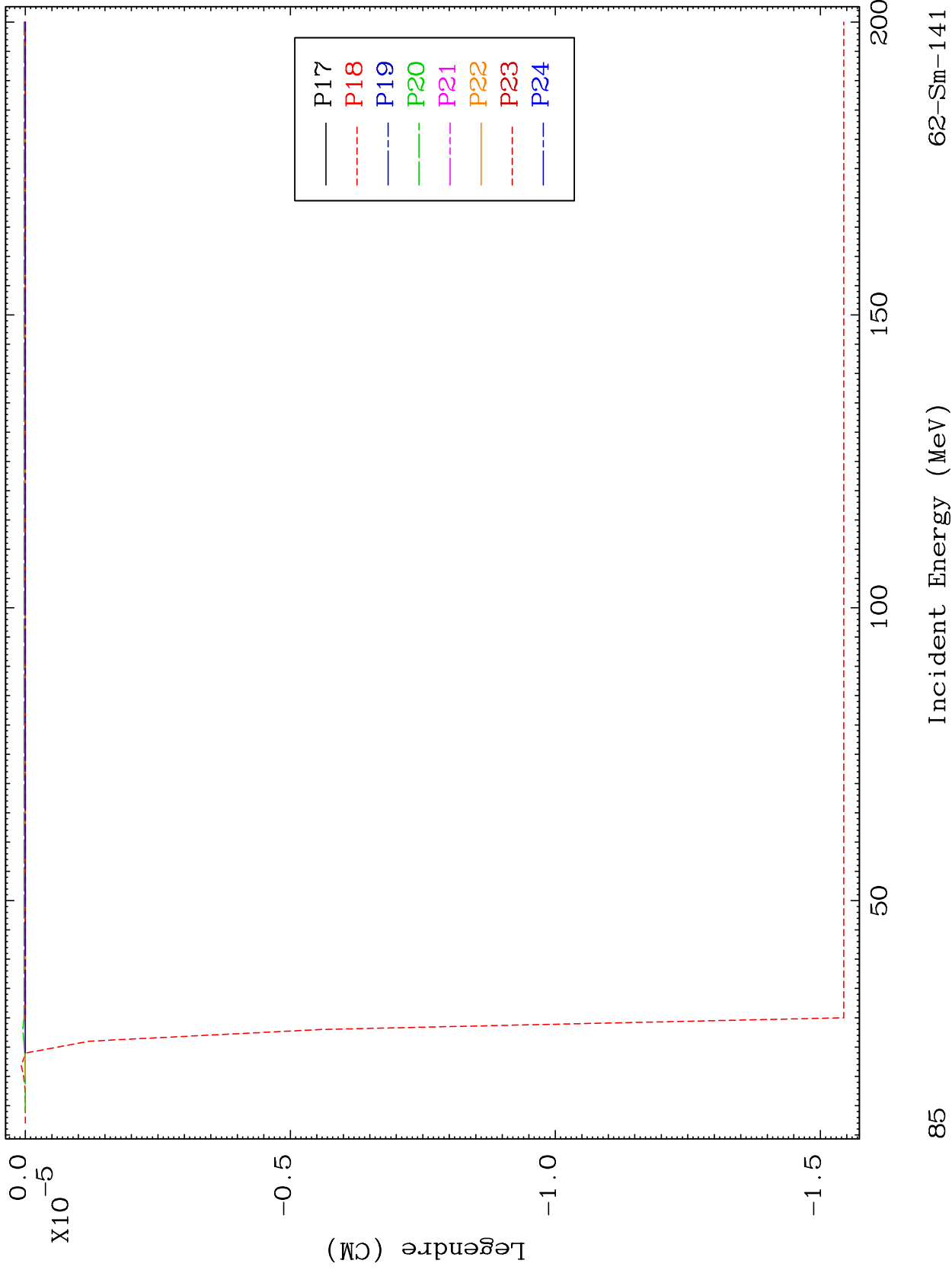
Incident Energy (MeV)

62-Sm-141

MAT 6216

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

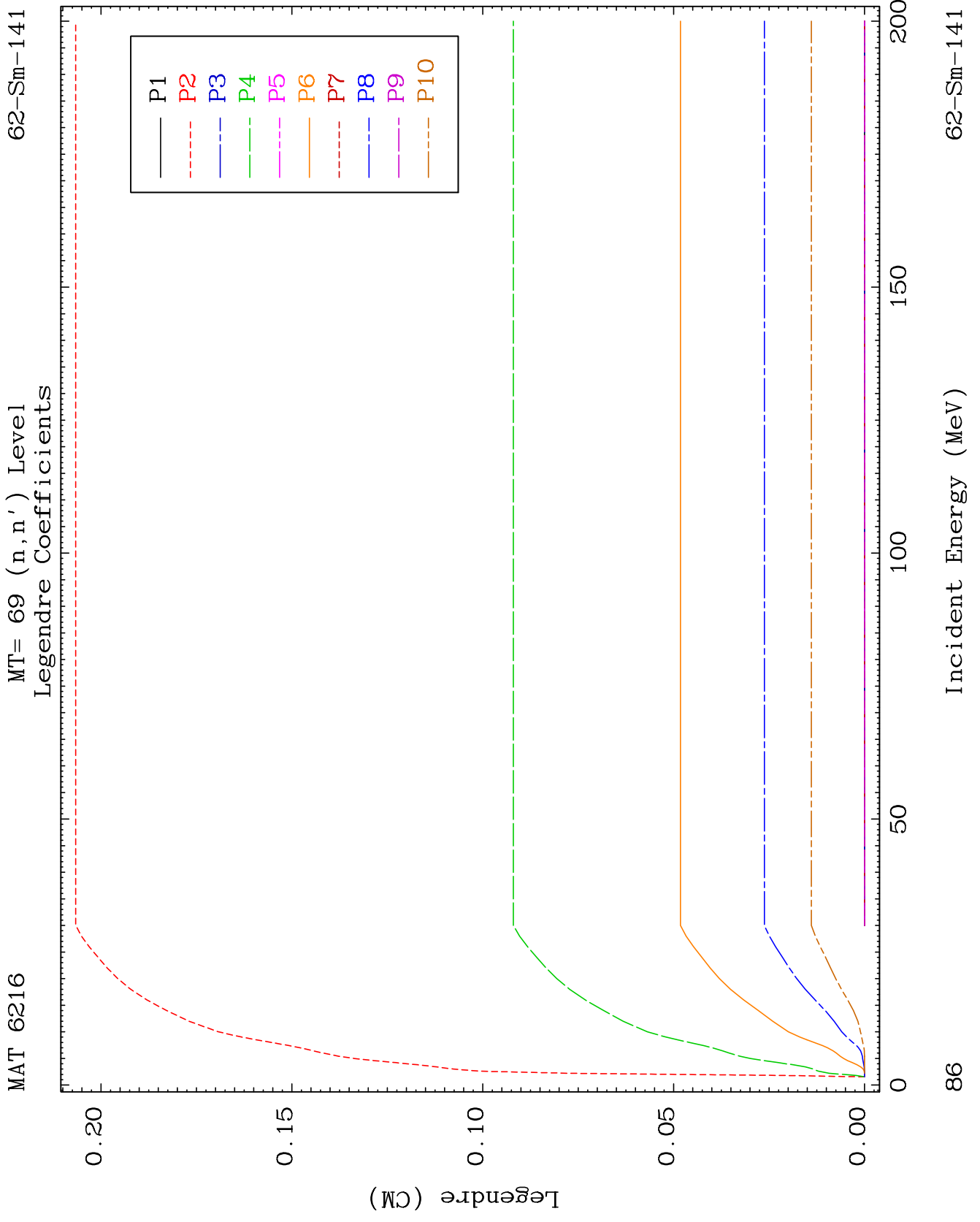
62-Sm-141

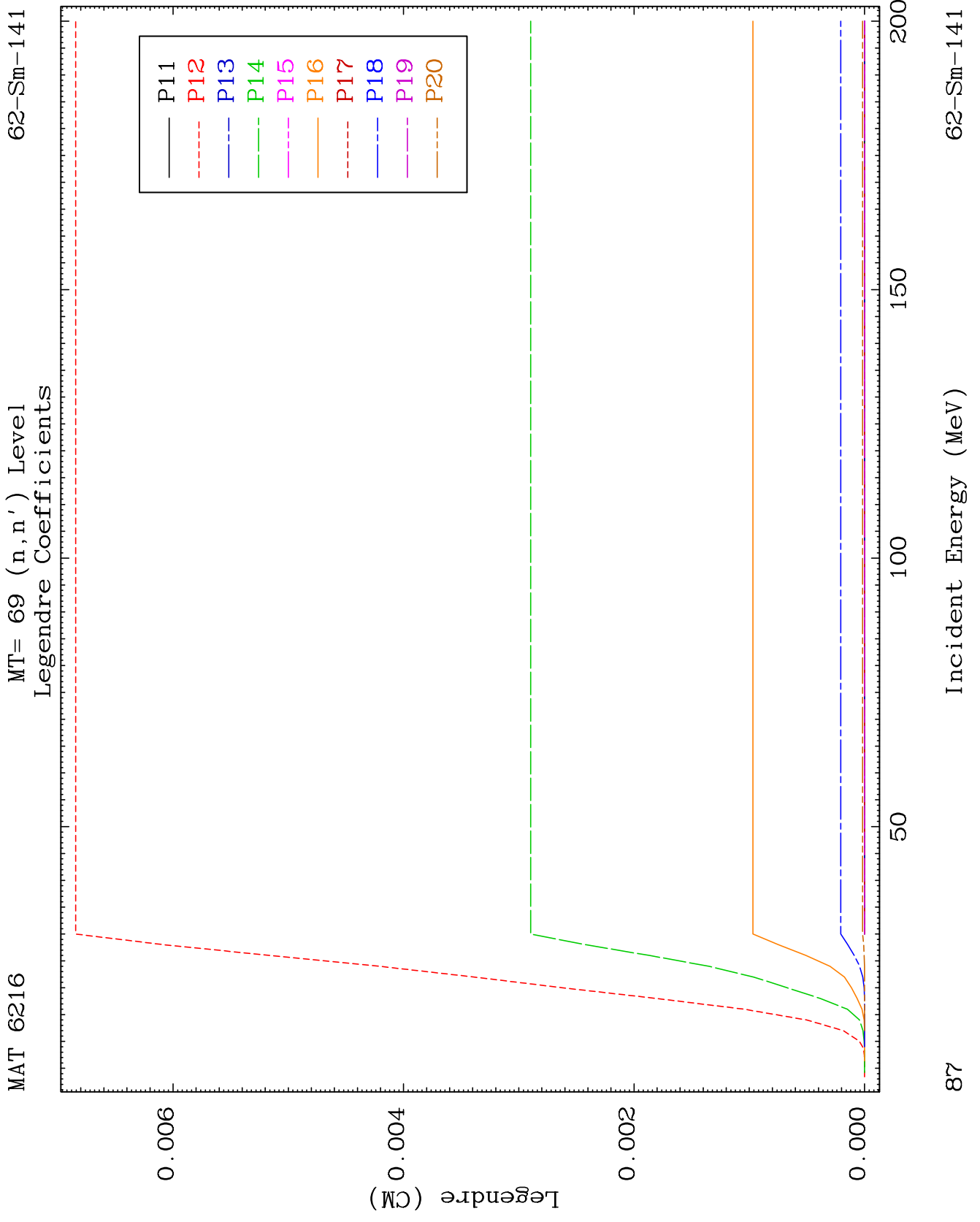


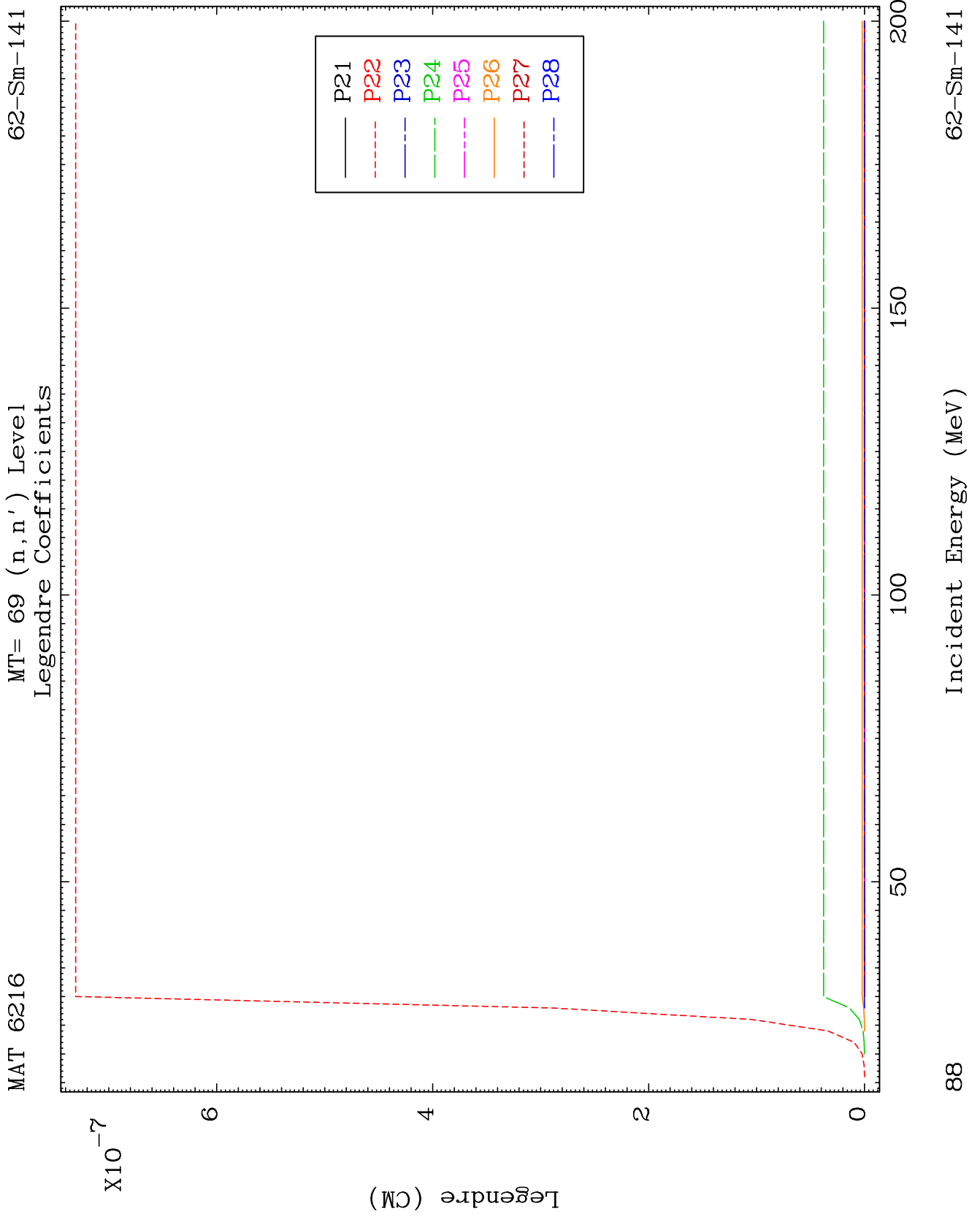
85

Incident Energy (MeV)

62-Sm-141



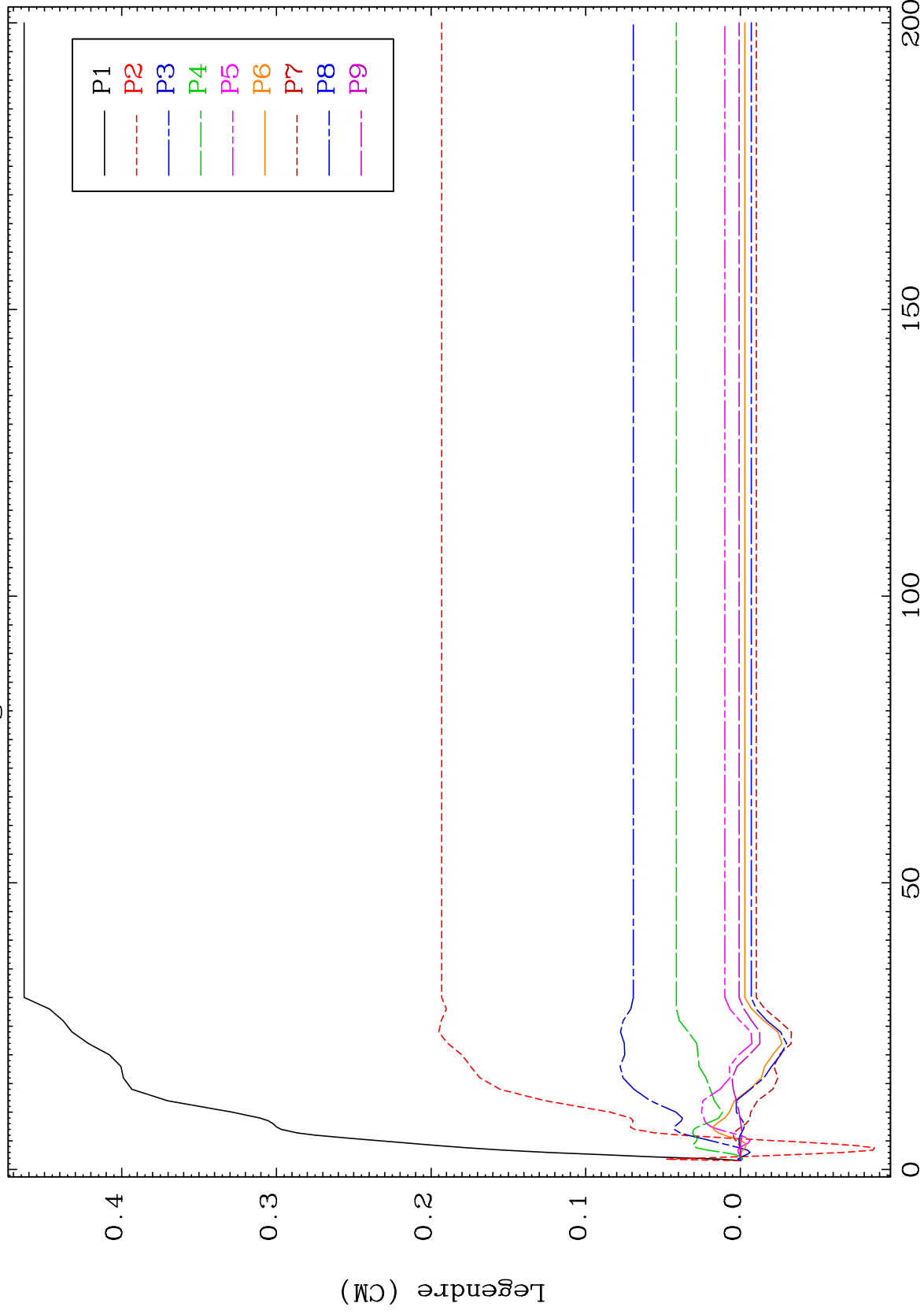




MAT 6216

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

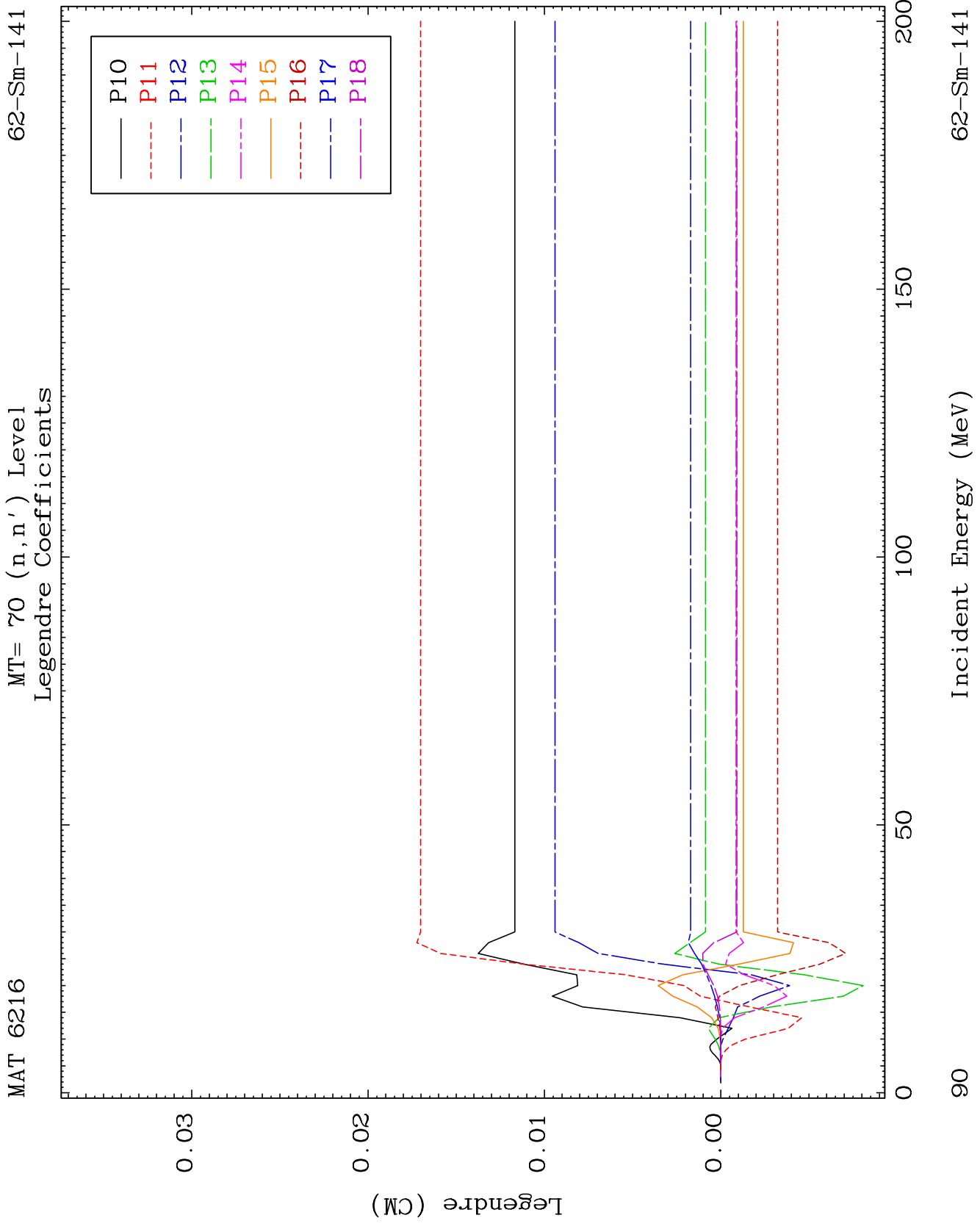
62-Sm-141



89

Incident Energy (MeV)

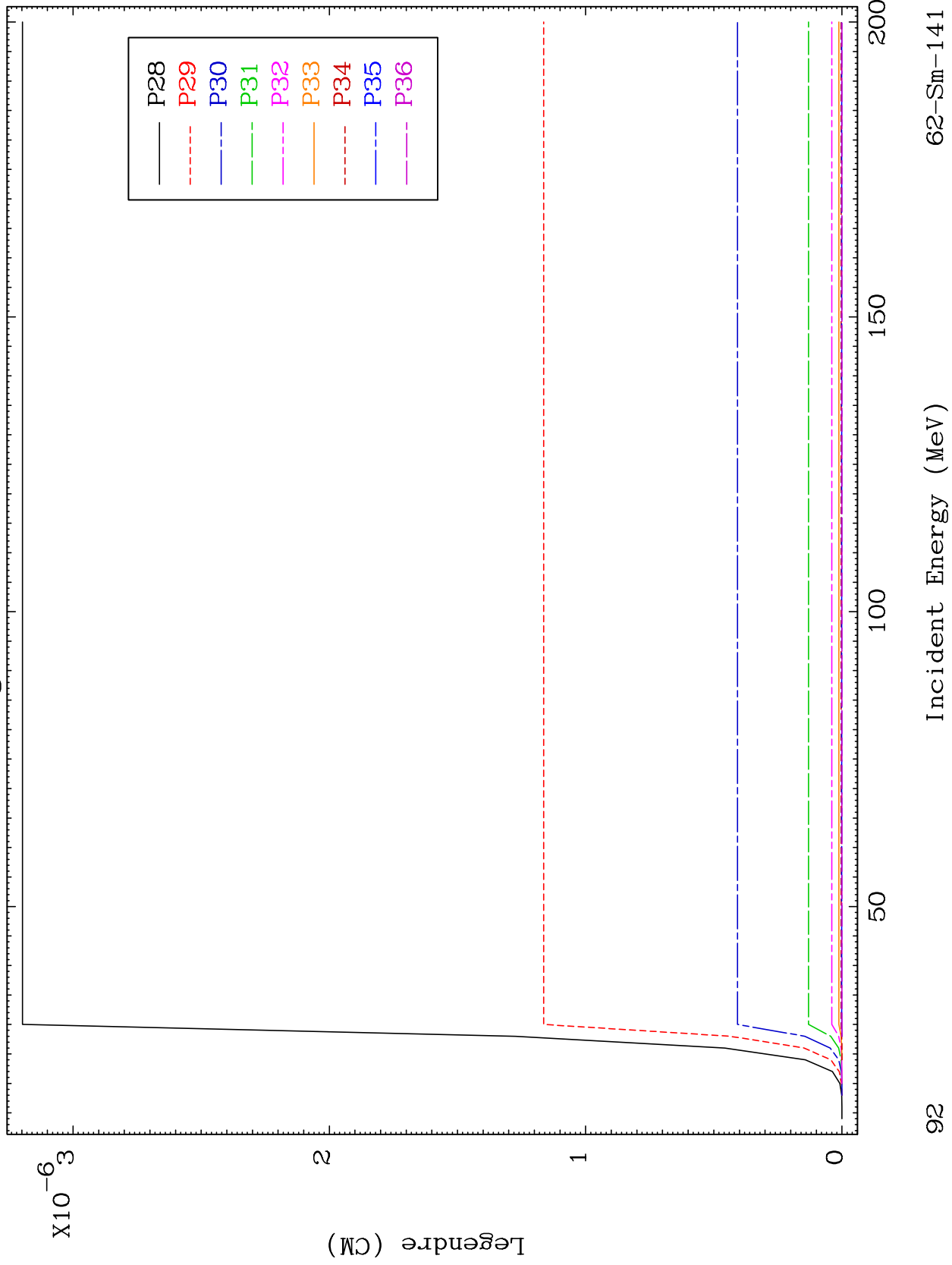
62-Sm-141

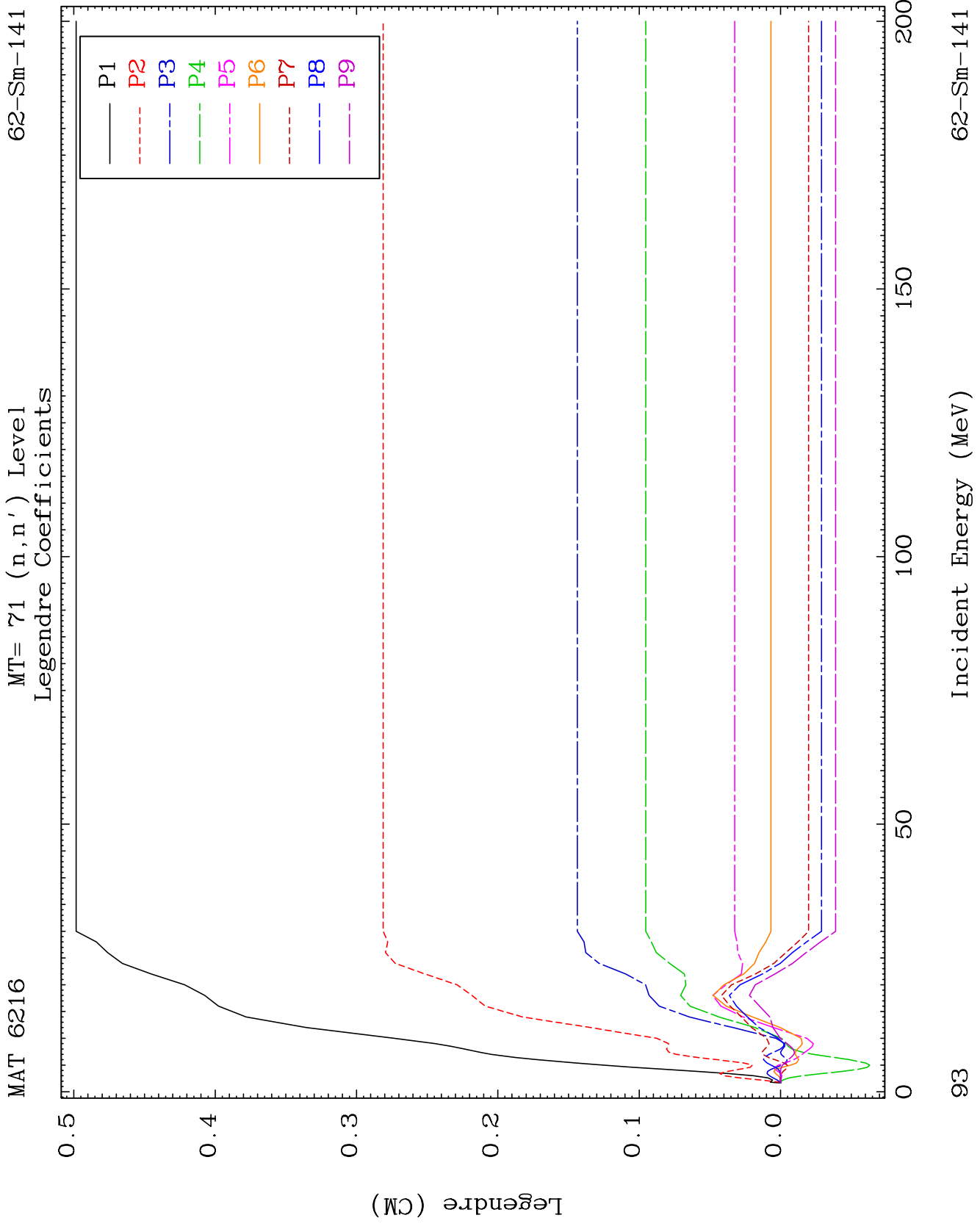


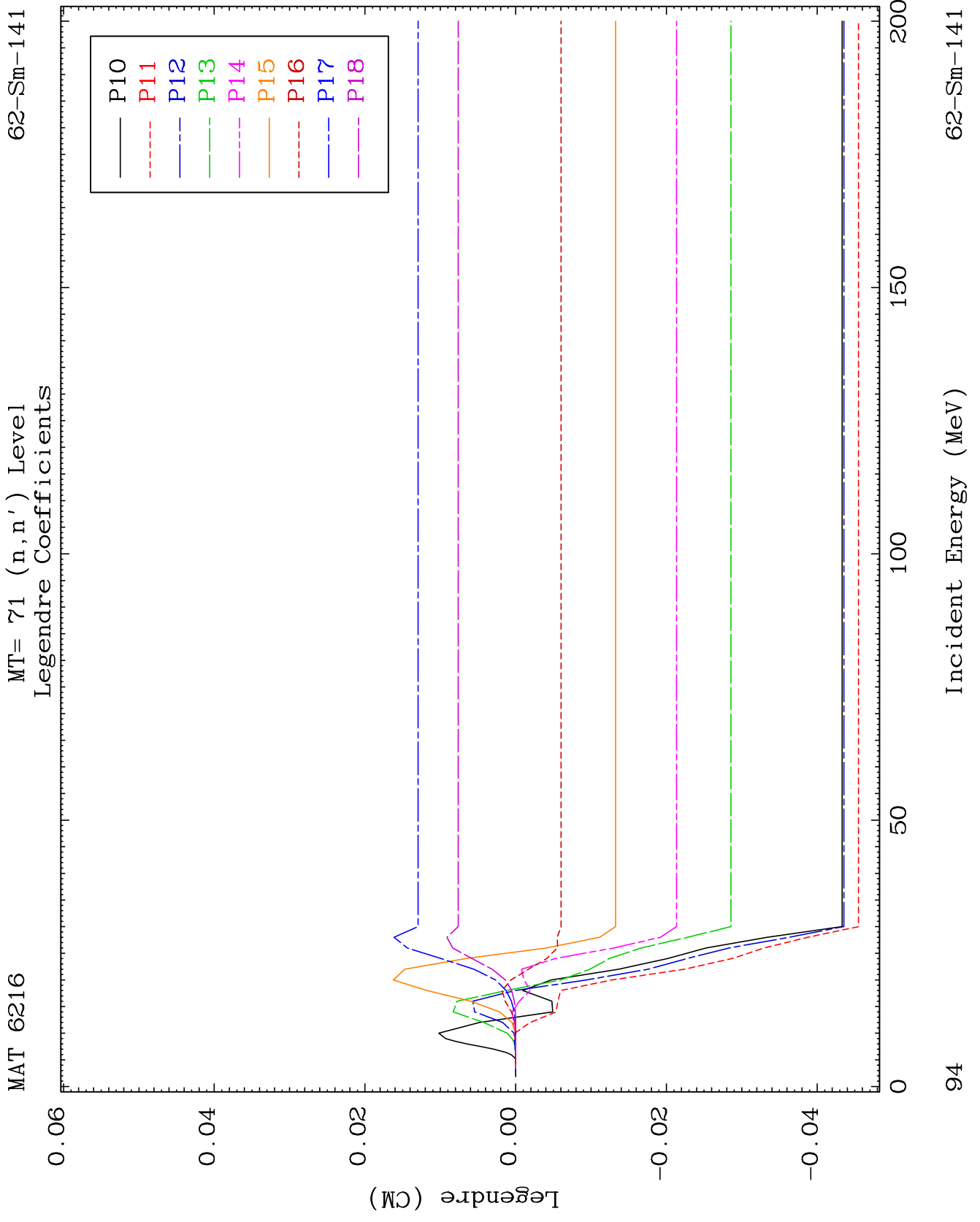
MAT 6216

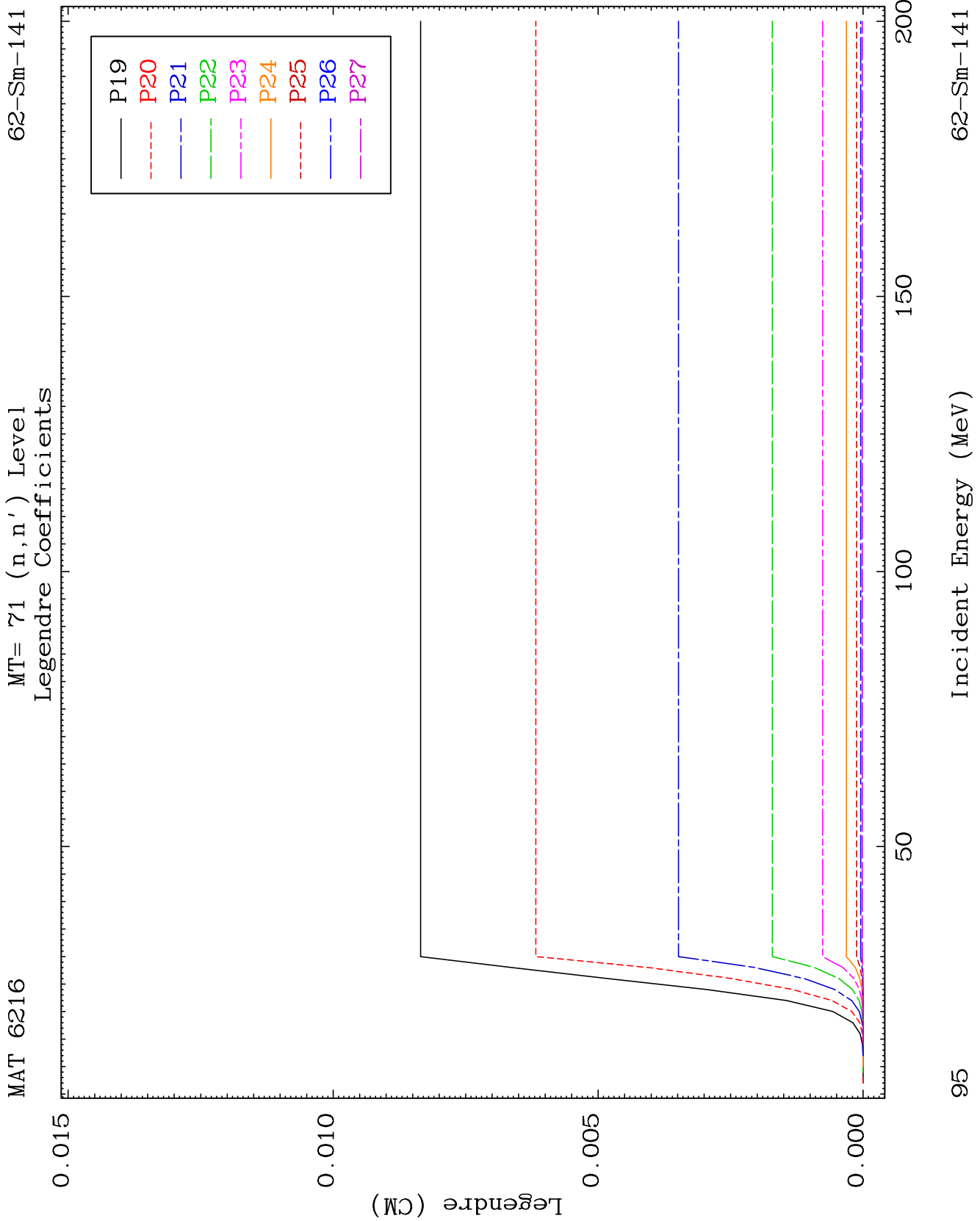
MT= 70 (n,n') Level
Legendre Coefficients

62-Sm-141





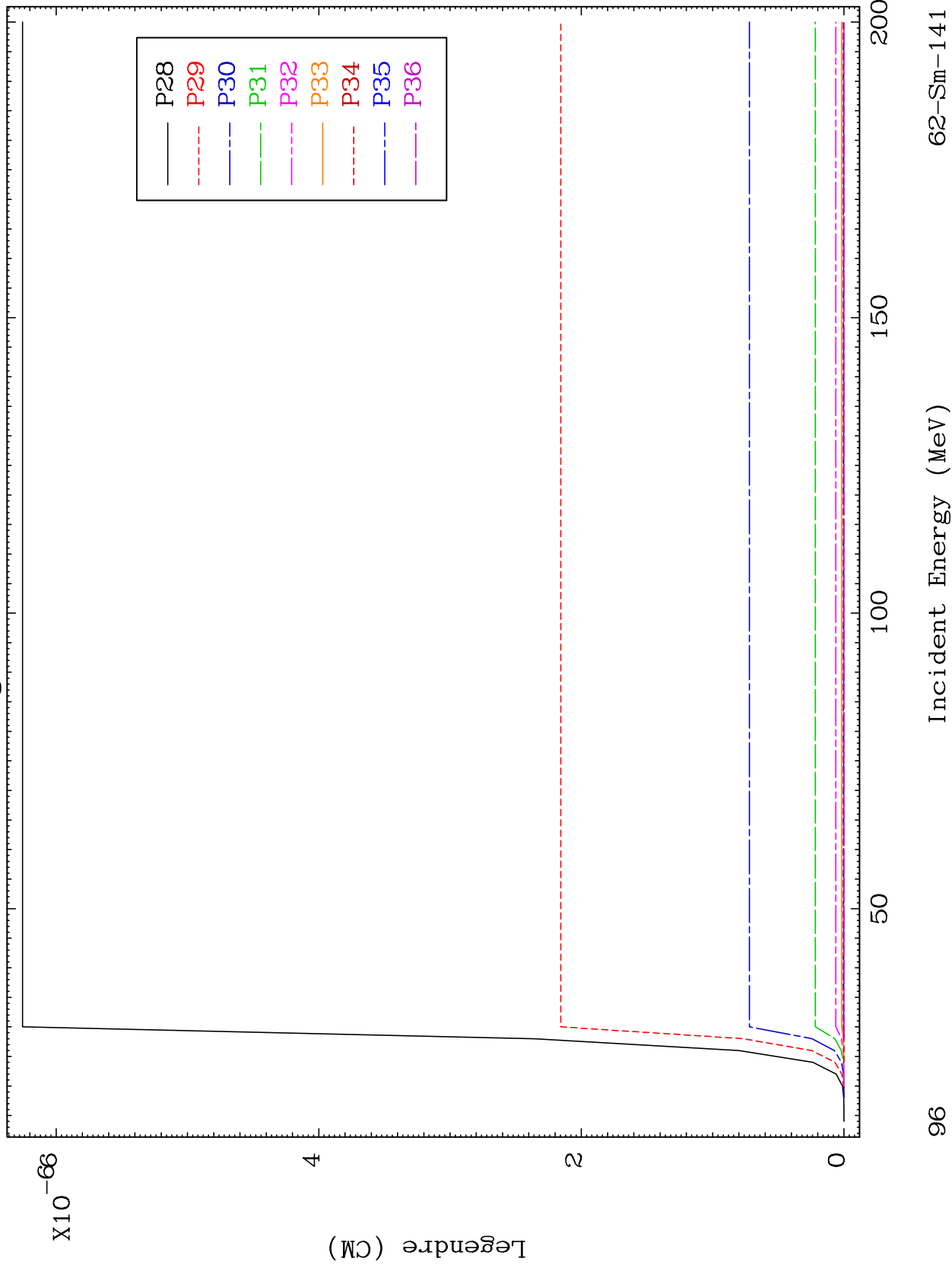




MAT 6216

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

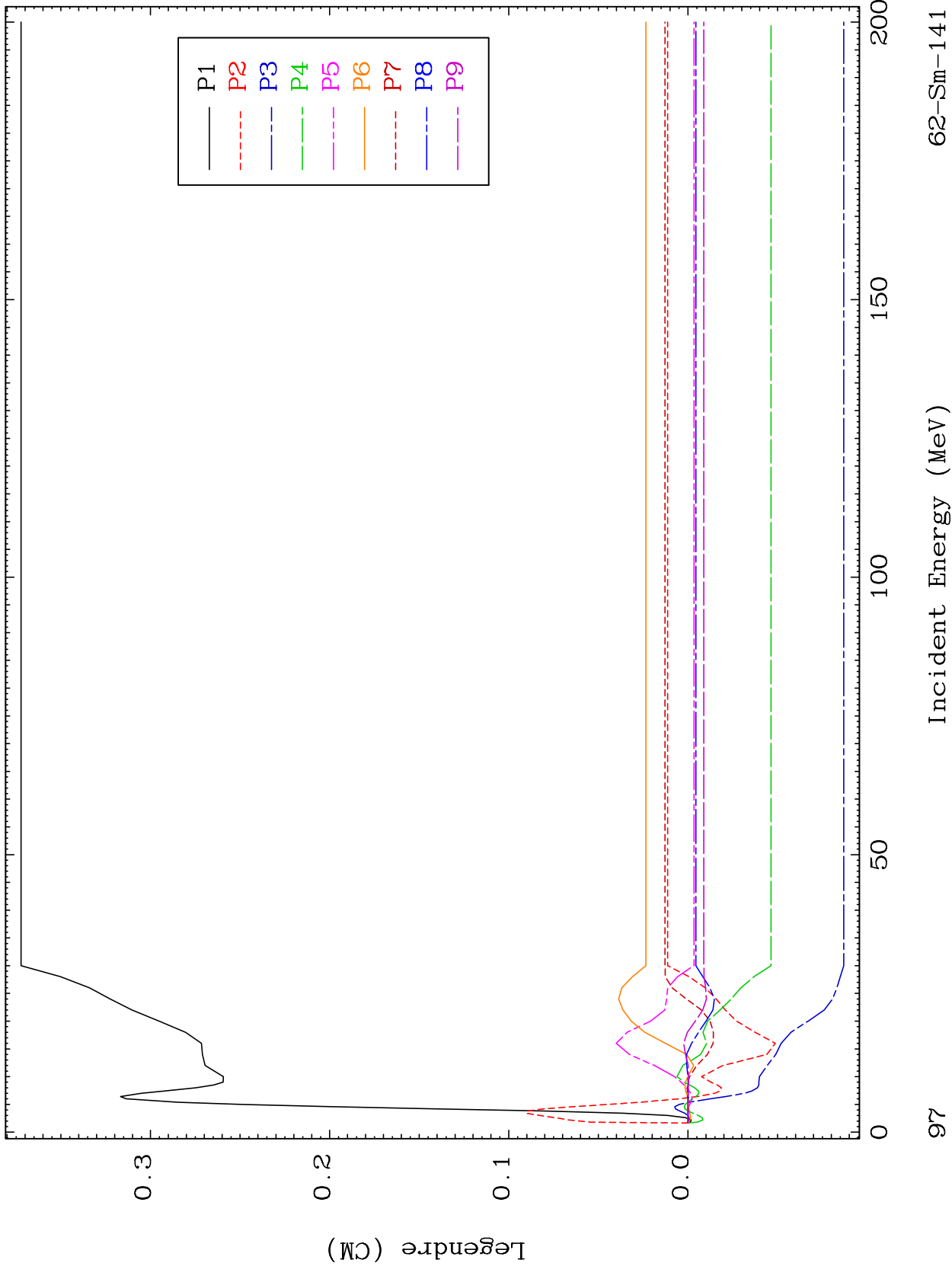
62-Sm-141



MAT 6216

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

62-Sm-141



97

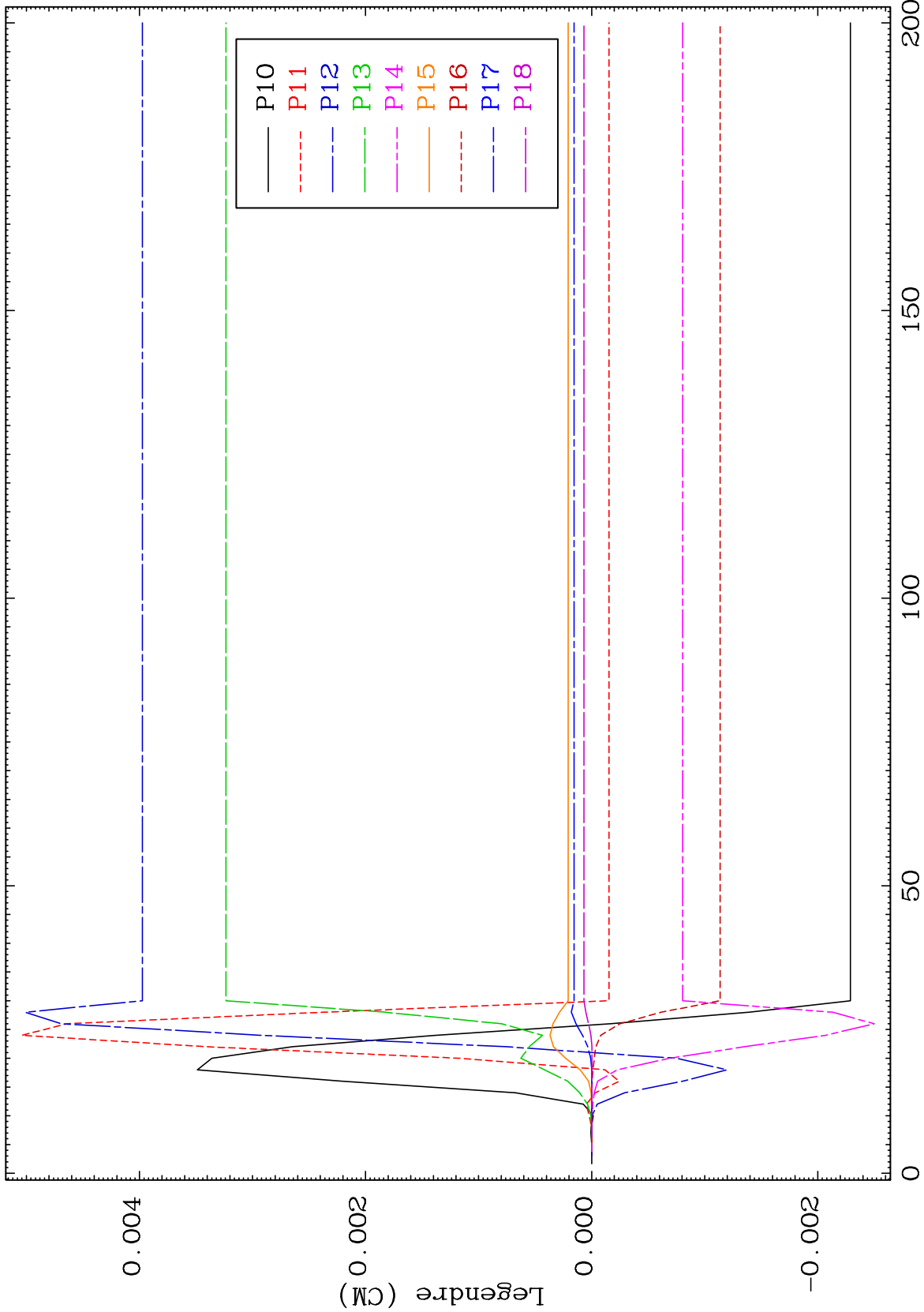
Incident Energy (MeV)

62-Sm-141

MAT 6216

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

62-Sm-141



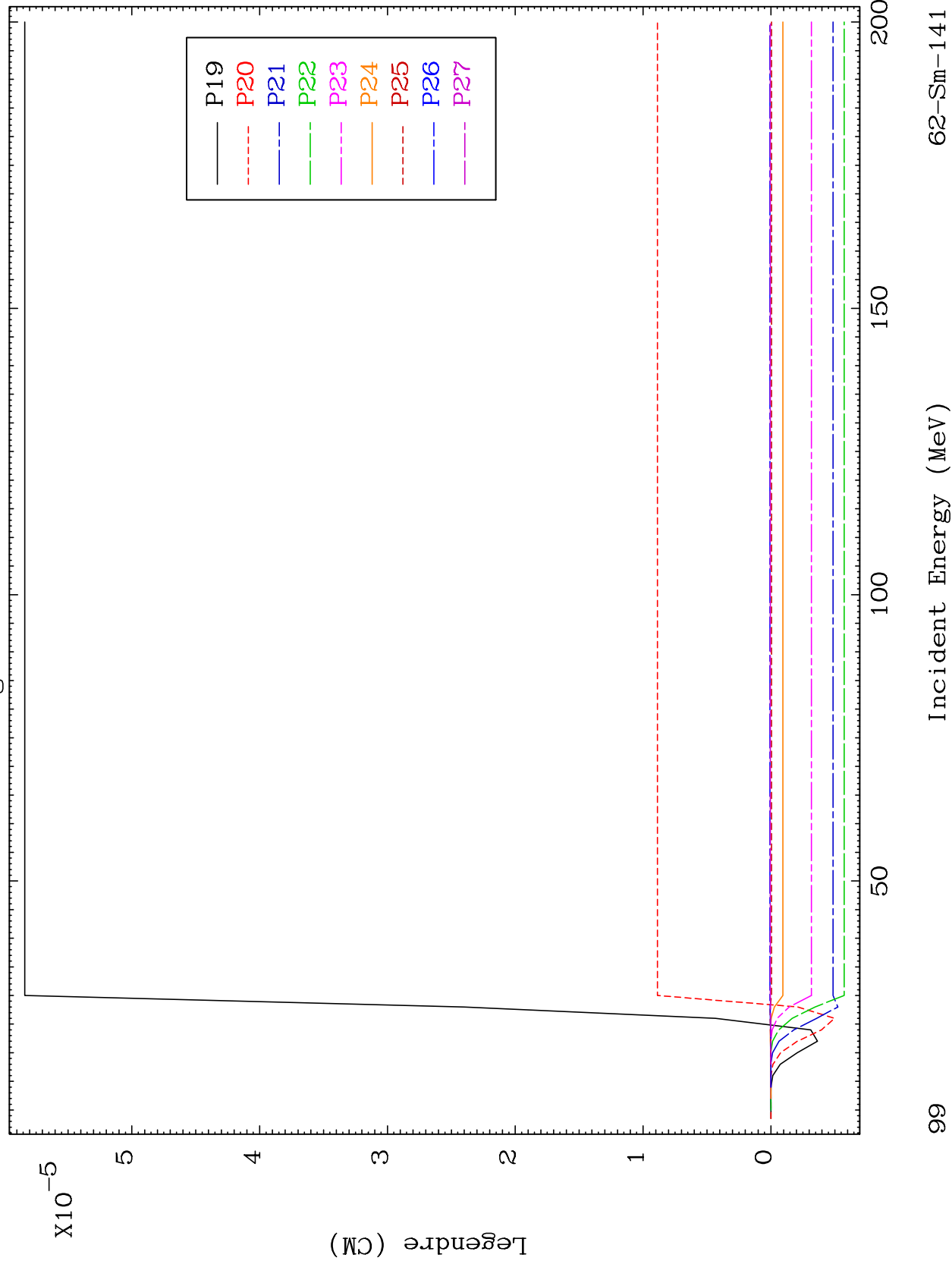
98

62-Sm-141

MAT 6216

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

62-Sm-141



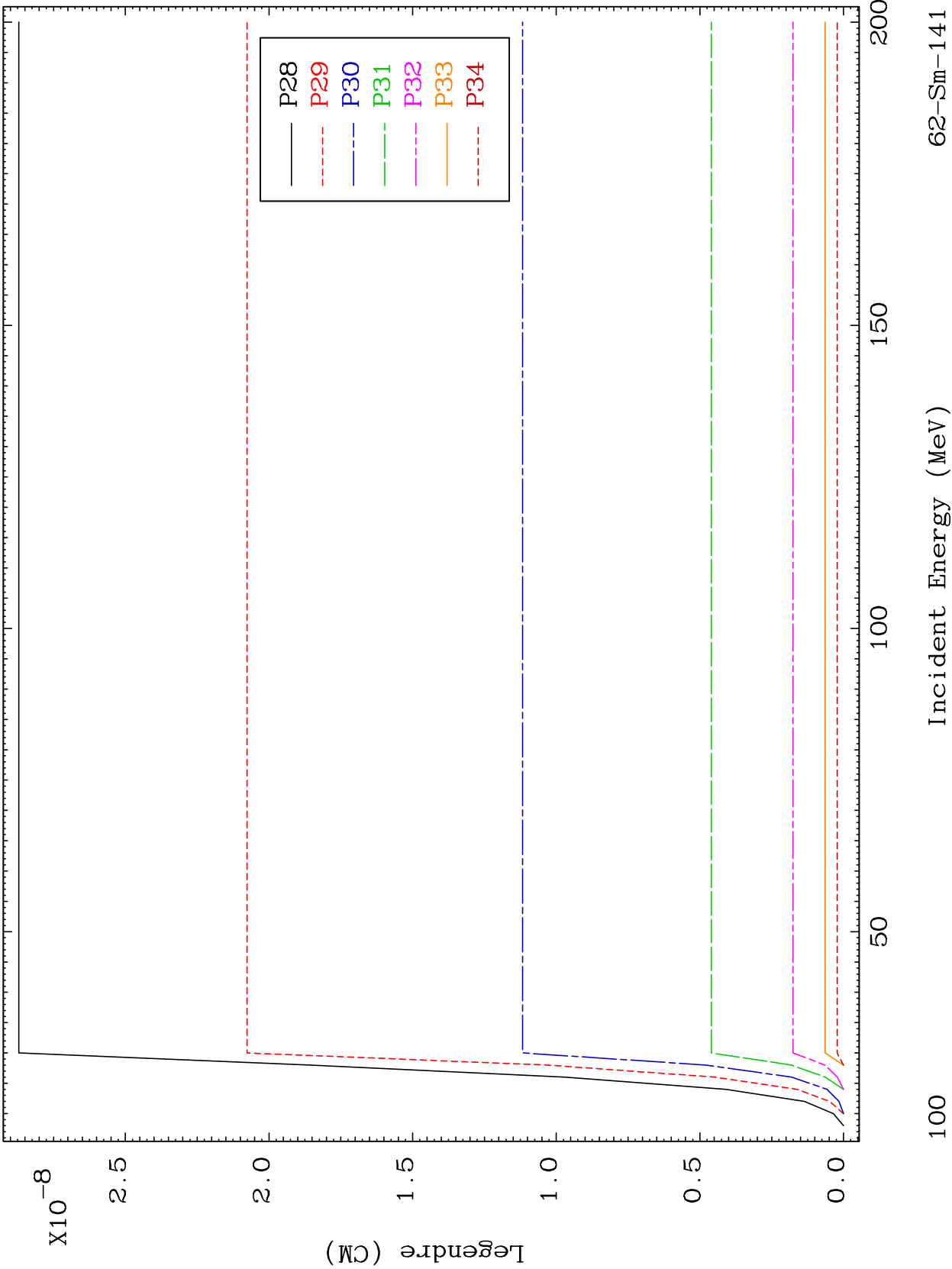
99

62-Sm-141

MAT 6216

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

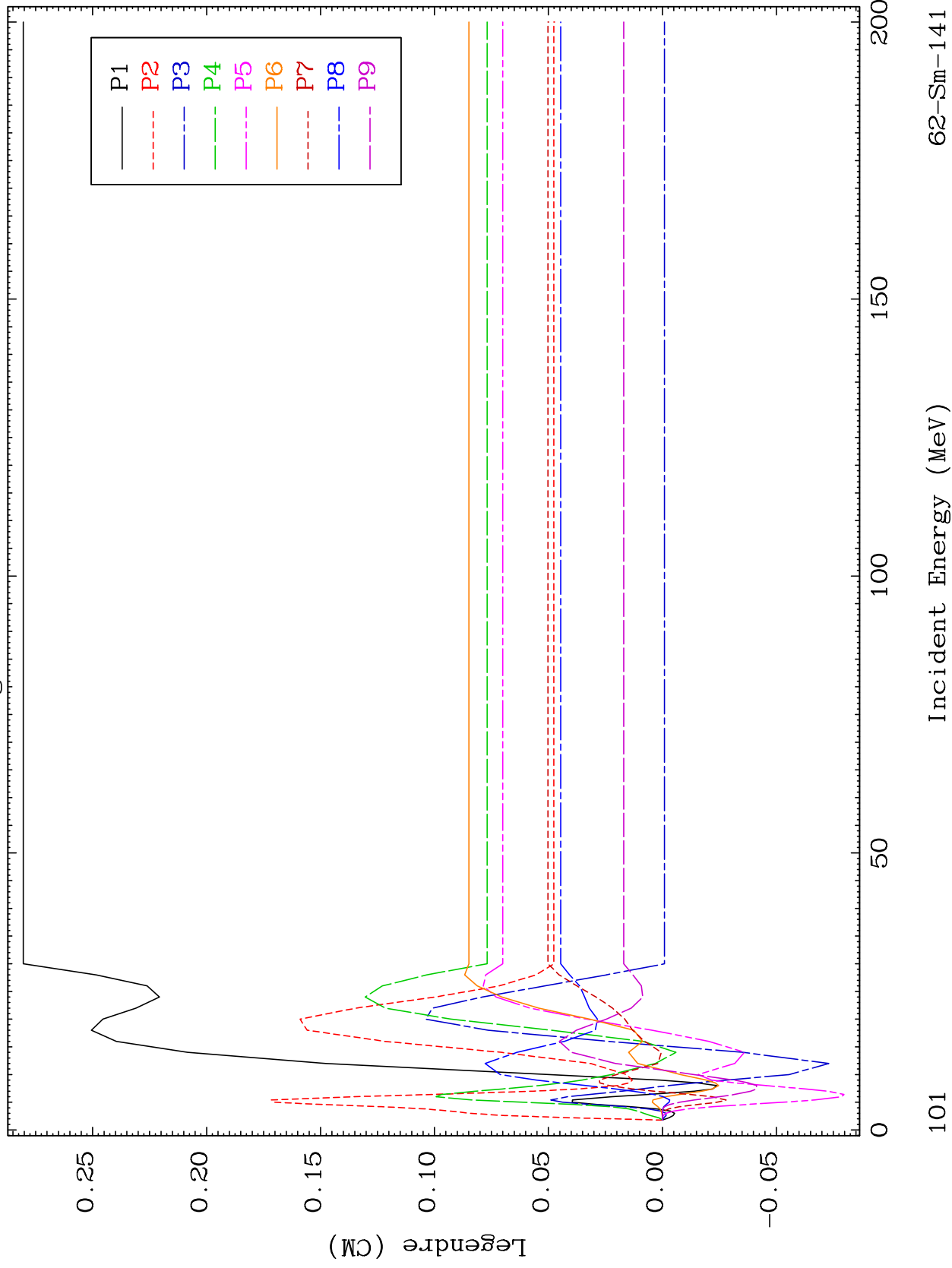
62-Sm-141



MAT 6216

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

62-Sm-141



62-Sm-141

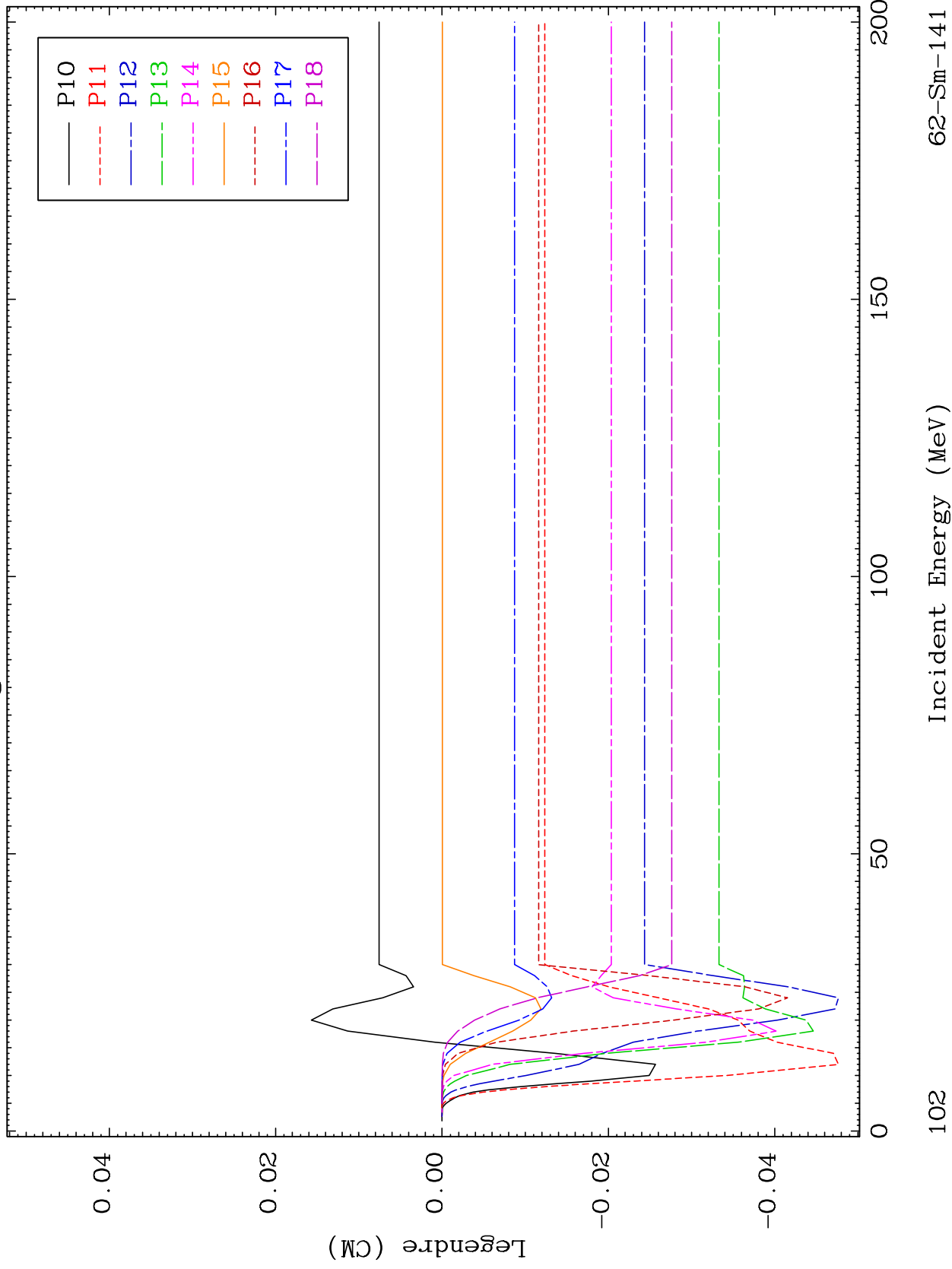
Incident Energy (MeV)

101

MAT 6216

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

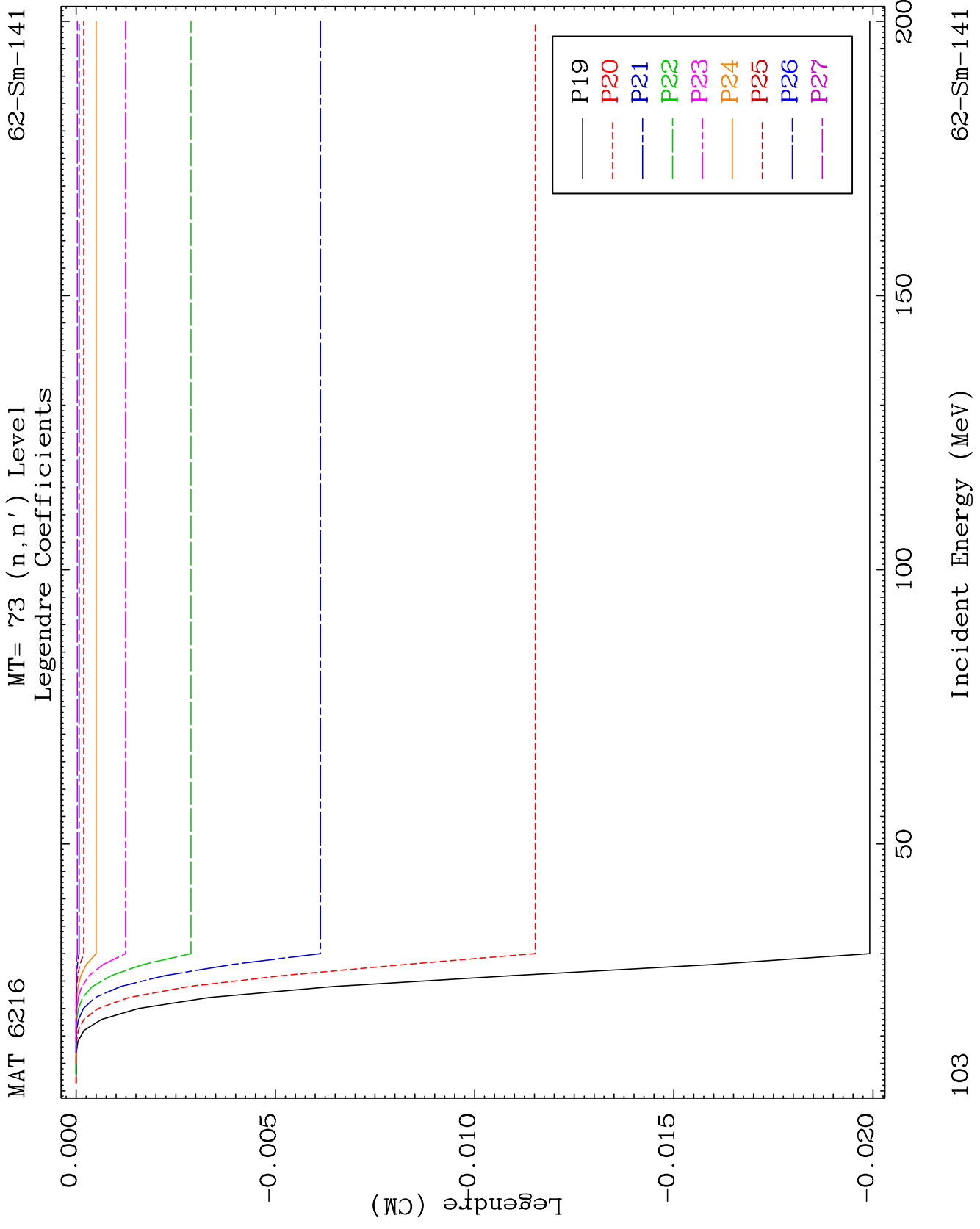
62-Sm-141

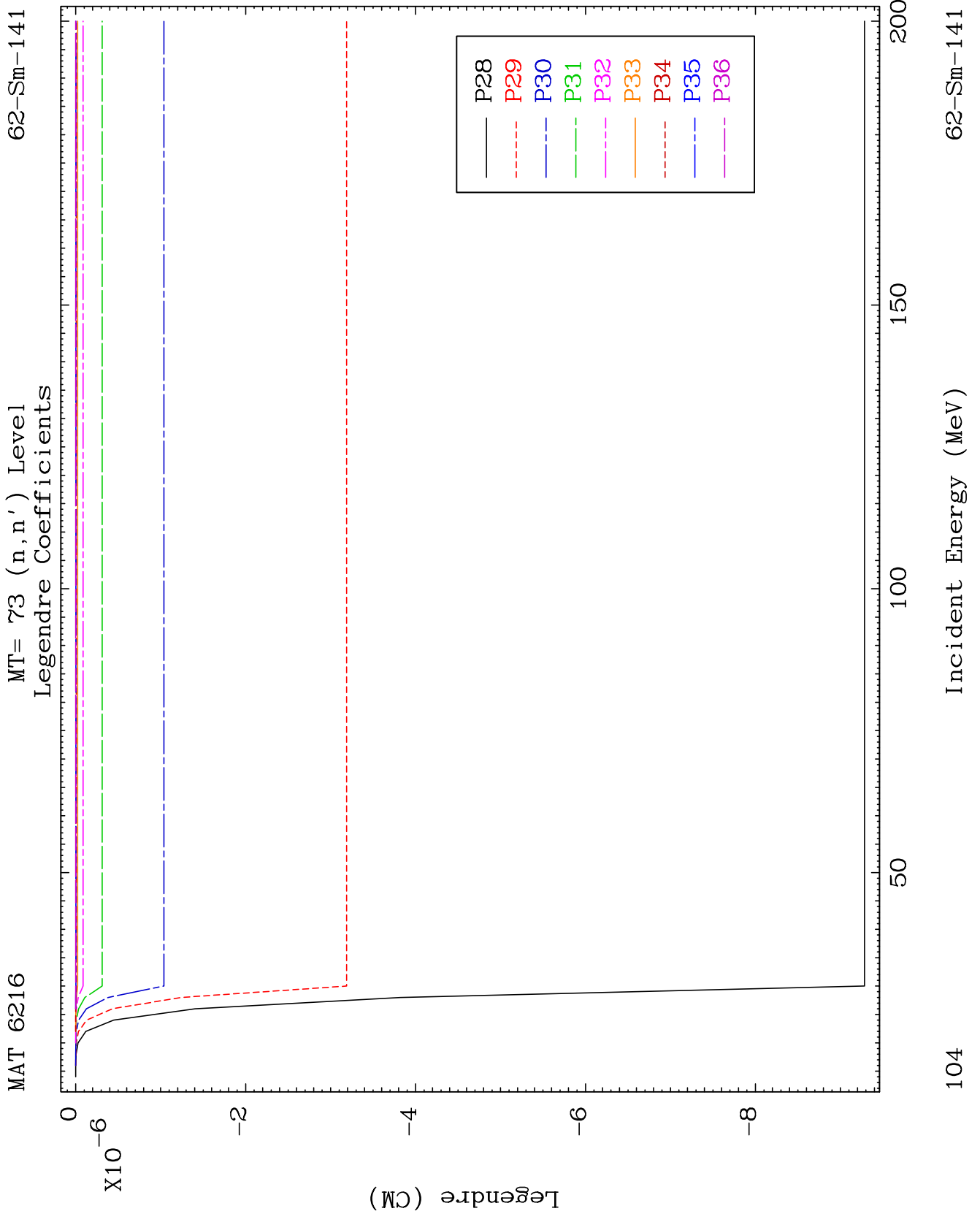


62-Sm-141

Incident Energy (MeV)

102

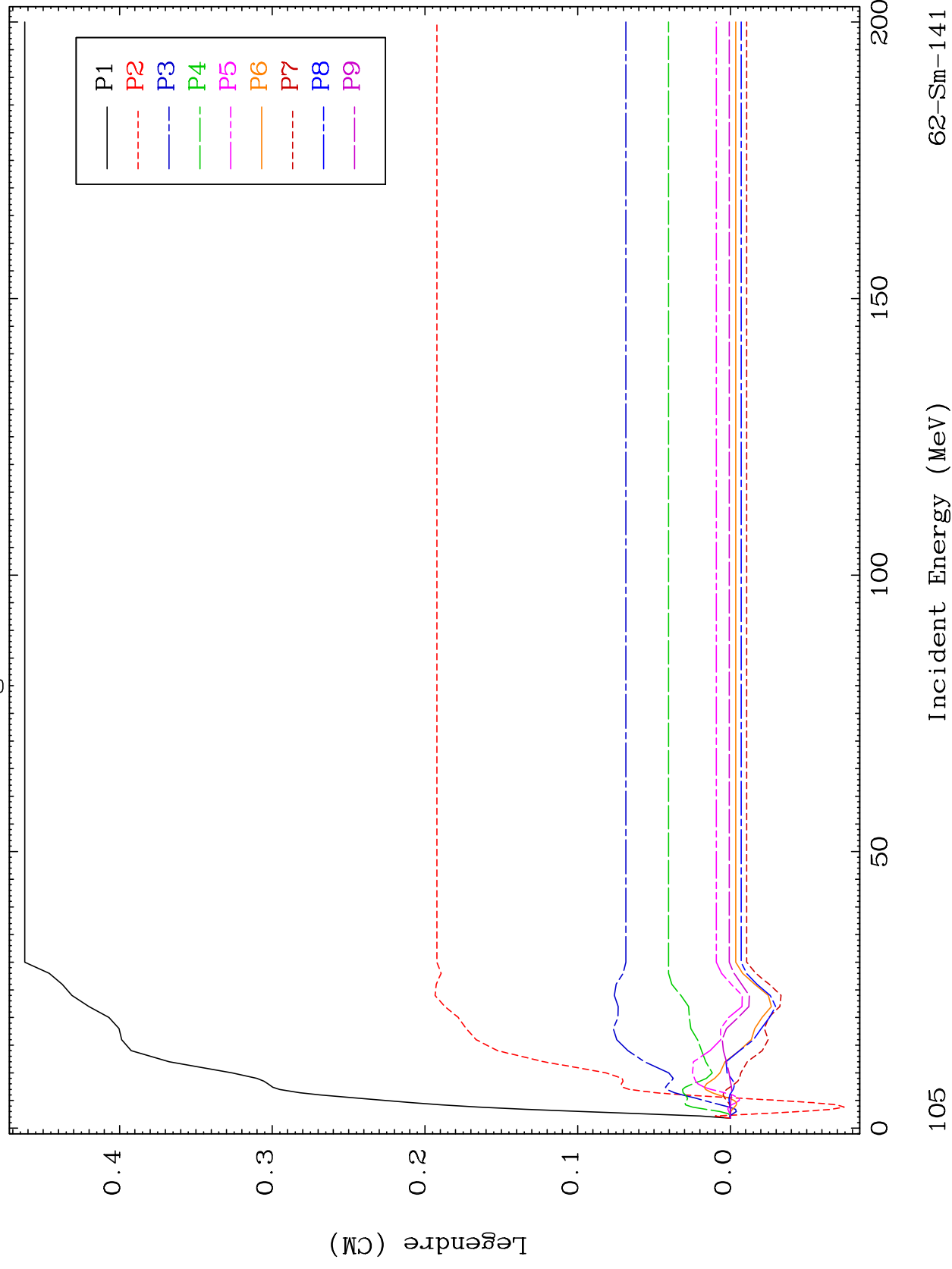




MAT 6216

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

62-Sm-141



62-Sm-141

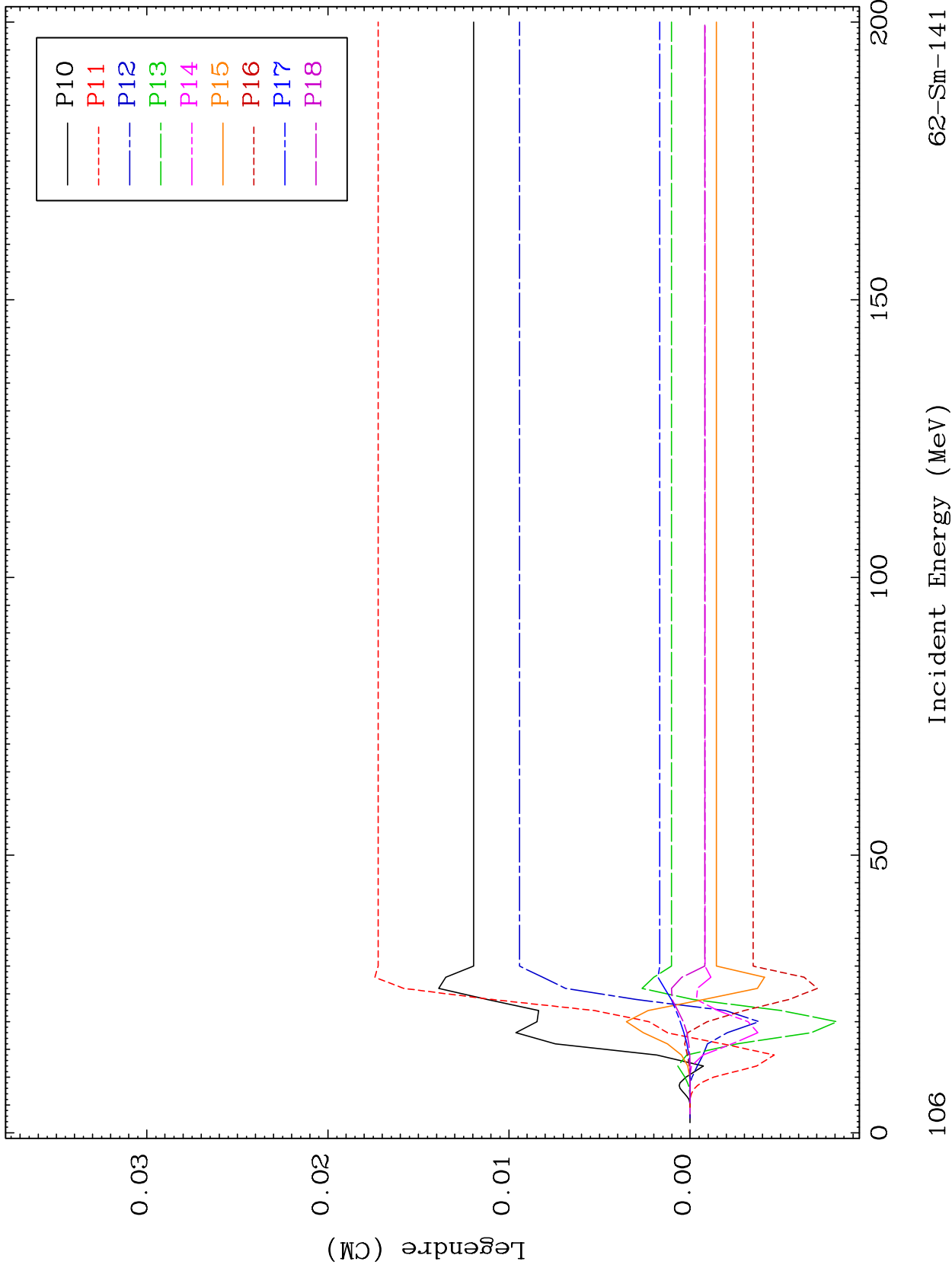
Incident Energy (MeV)

0

MAT 6216

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

62-Sm-141



62-Sm-141

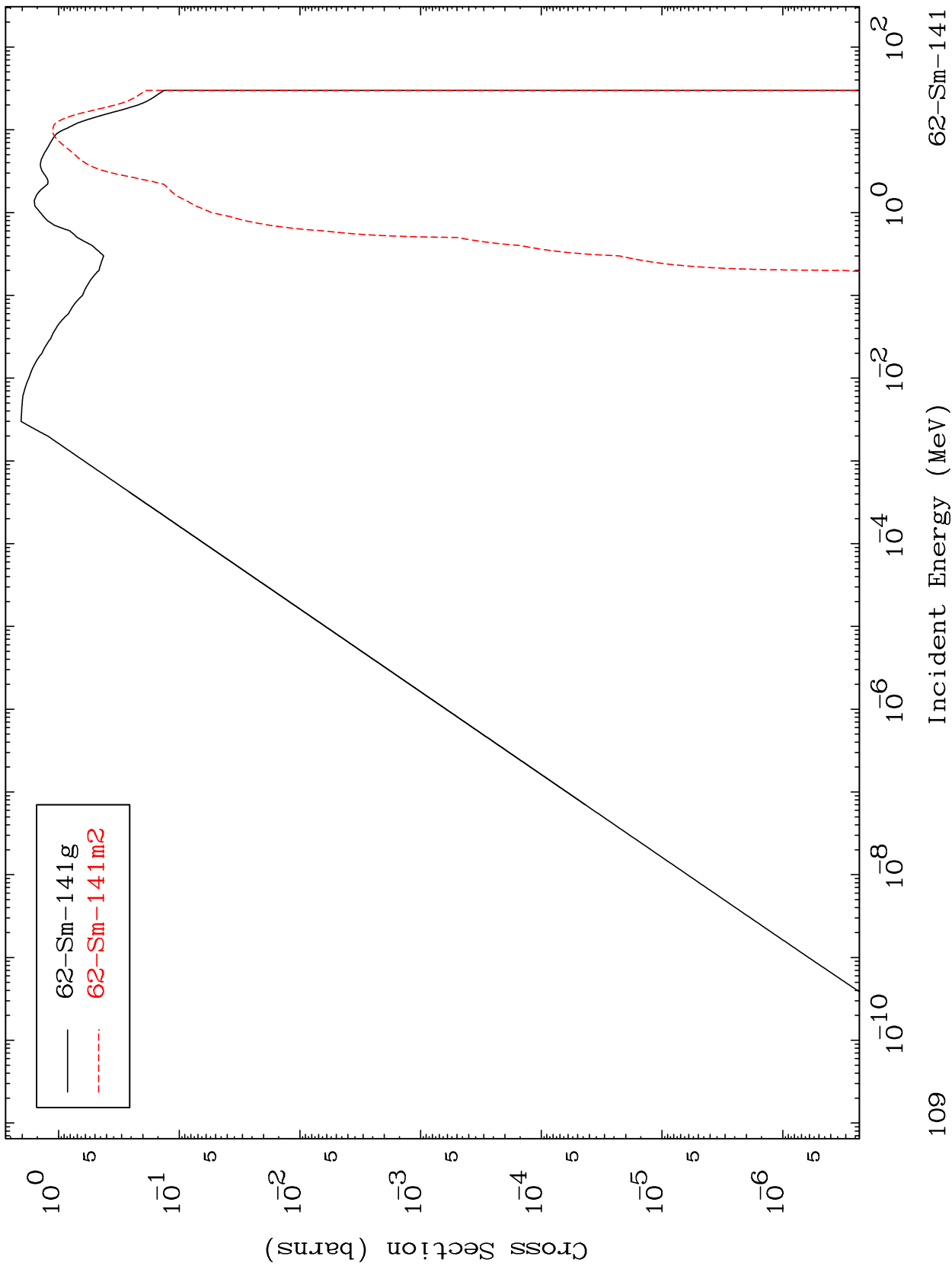
Incident Energy (MeV)

106

MAT 6216

62-Sm-141

Inelastic
Radionuclide Production Cross Section

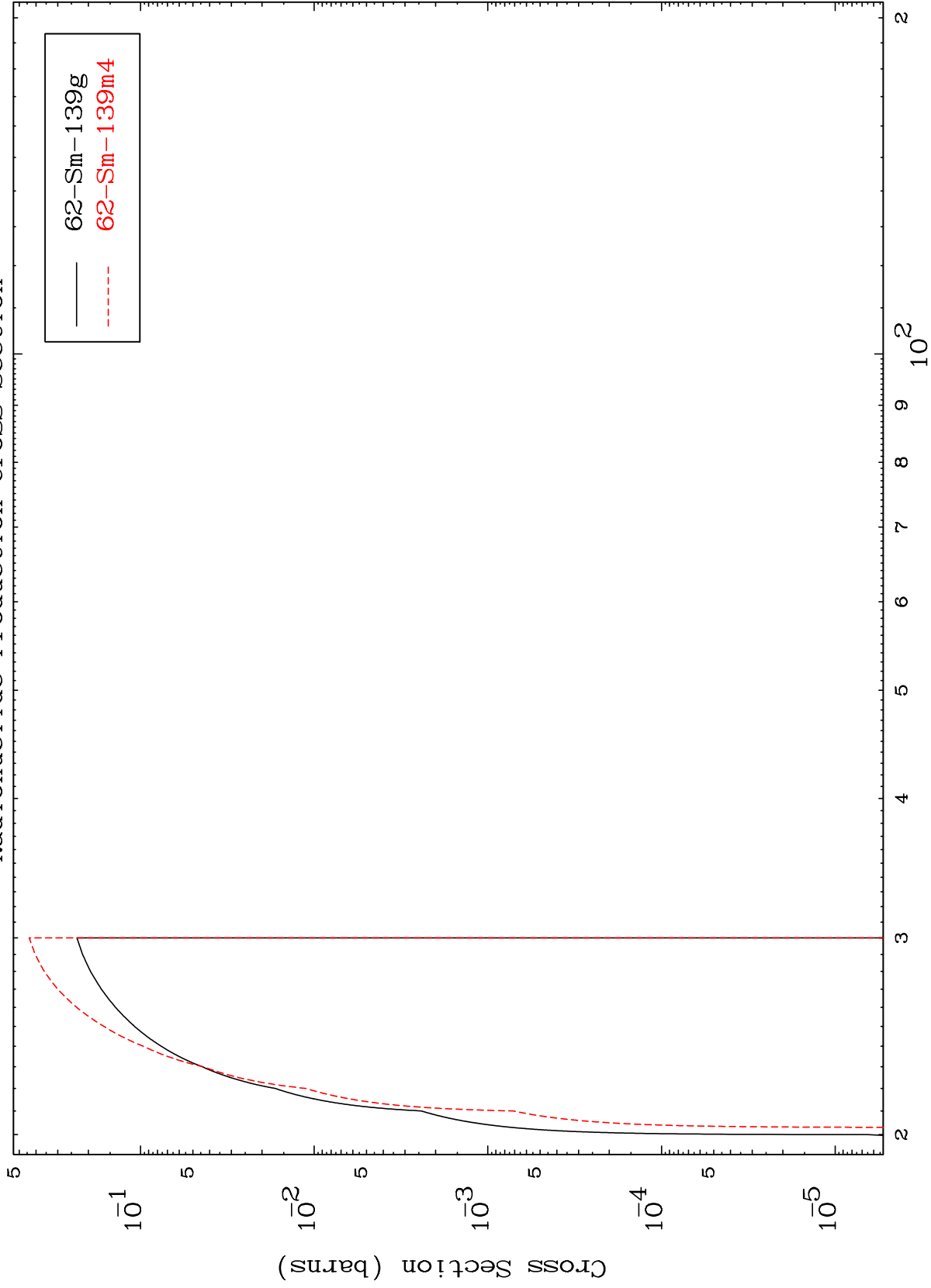


MAT 6216

(n,3n)

62-Sm-141

Radionuclide Production Cross Section



110

Incident Energy (MeV)

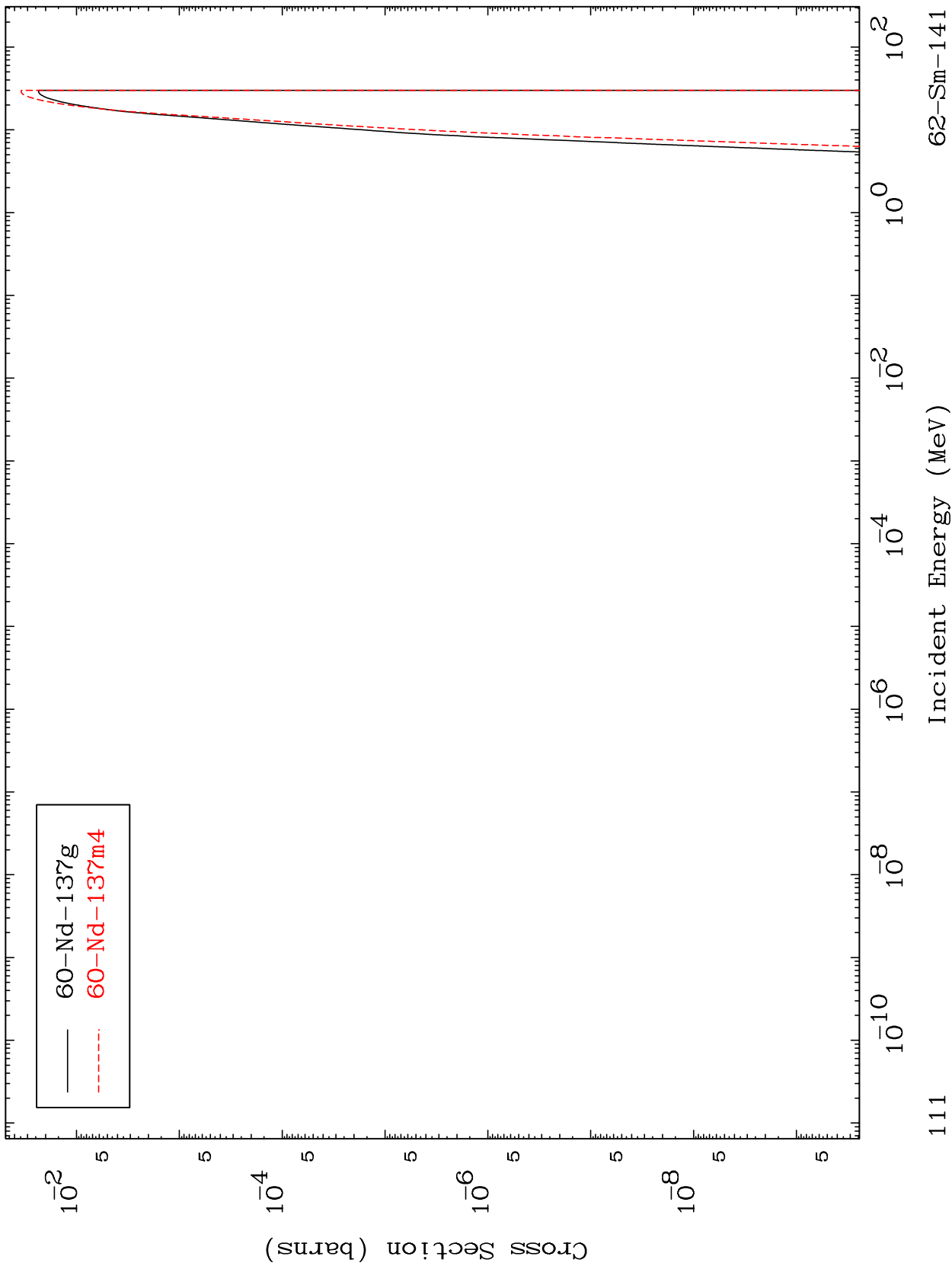
62-Sm-141

MAT 6216

$(n, n') \alpha$

62-Sm-141

Radionuclide Production Cross Section



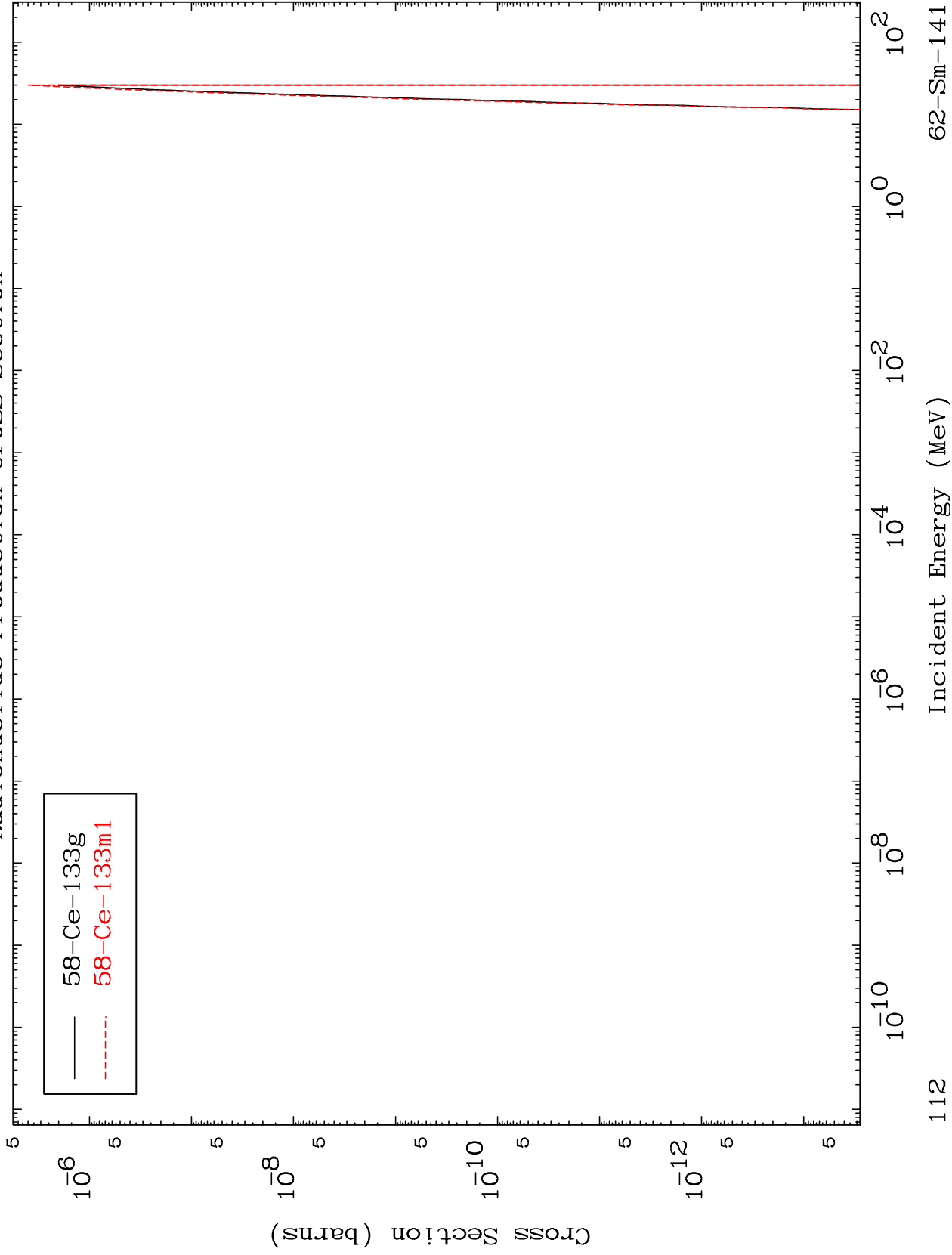
60-Nd-137g
60-Nd-137m4

MAT 6216

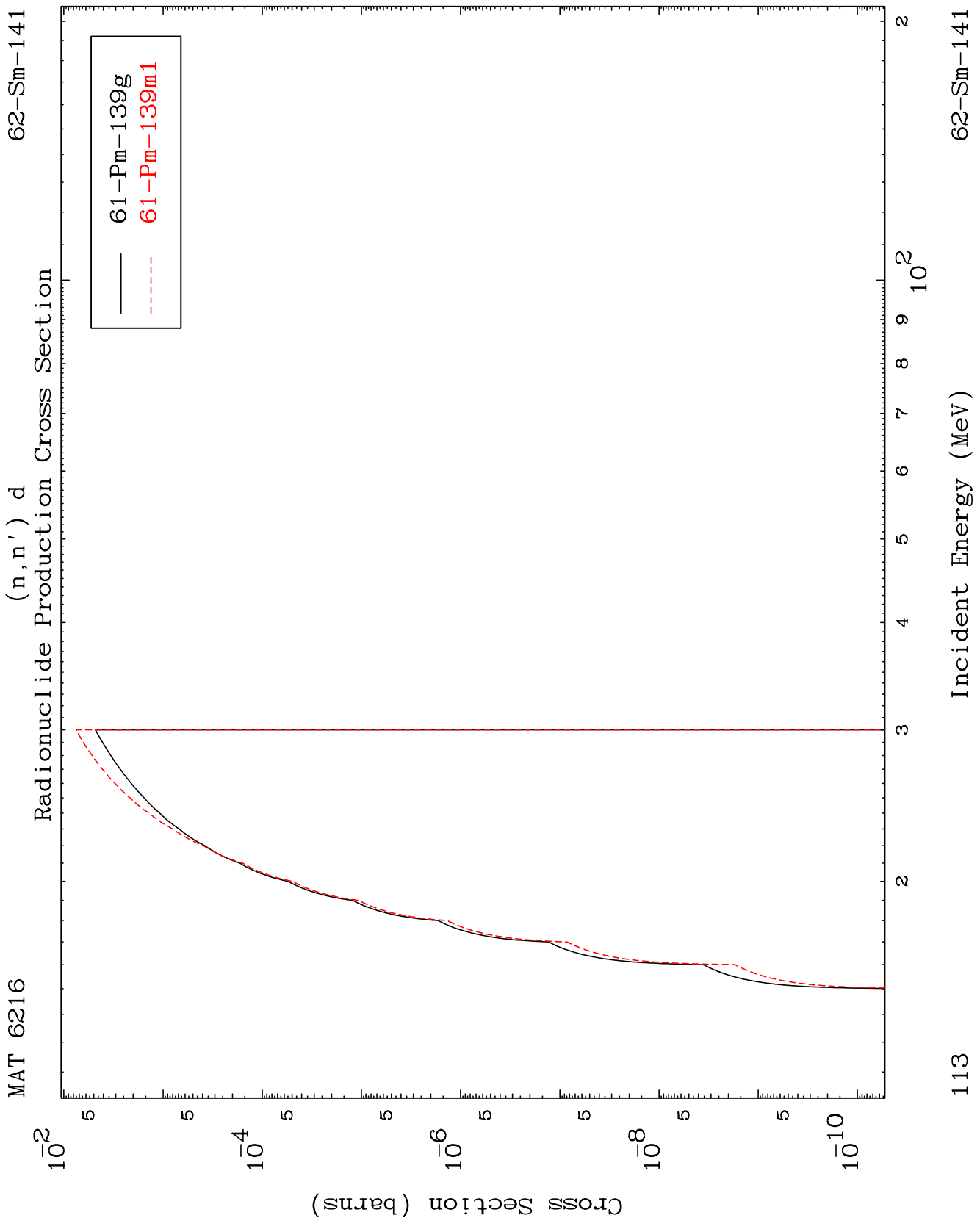
(n,n') 2 α

62-Sm-141

Radionuclide Production Cross Section



112

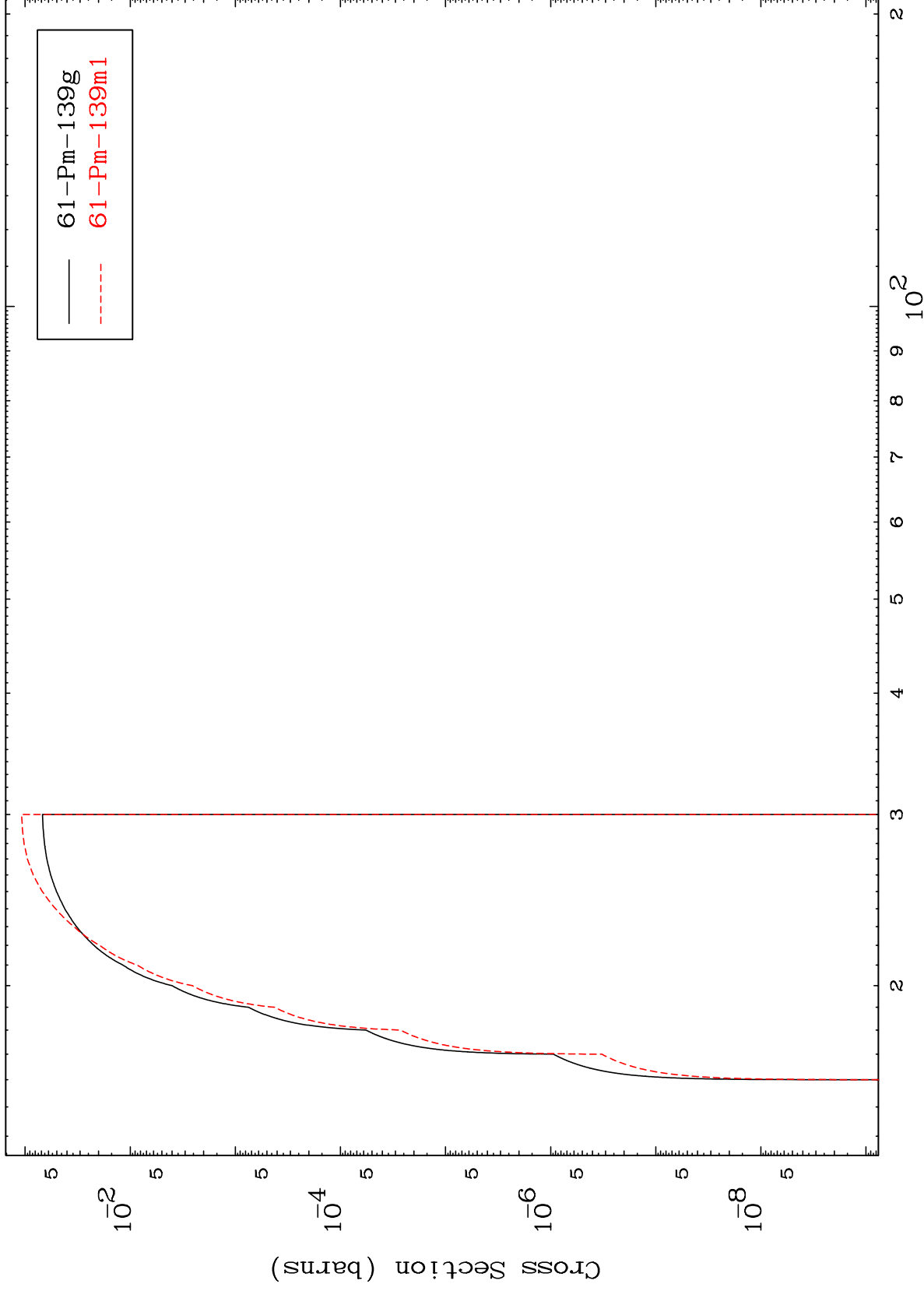


MAT 6216

(n,2n) p

62-Sm-141

Radionuclide Production Cross Section



114

Incident Energy (MeV)

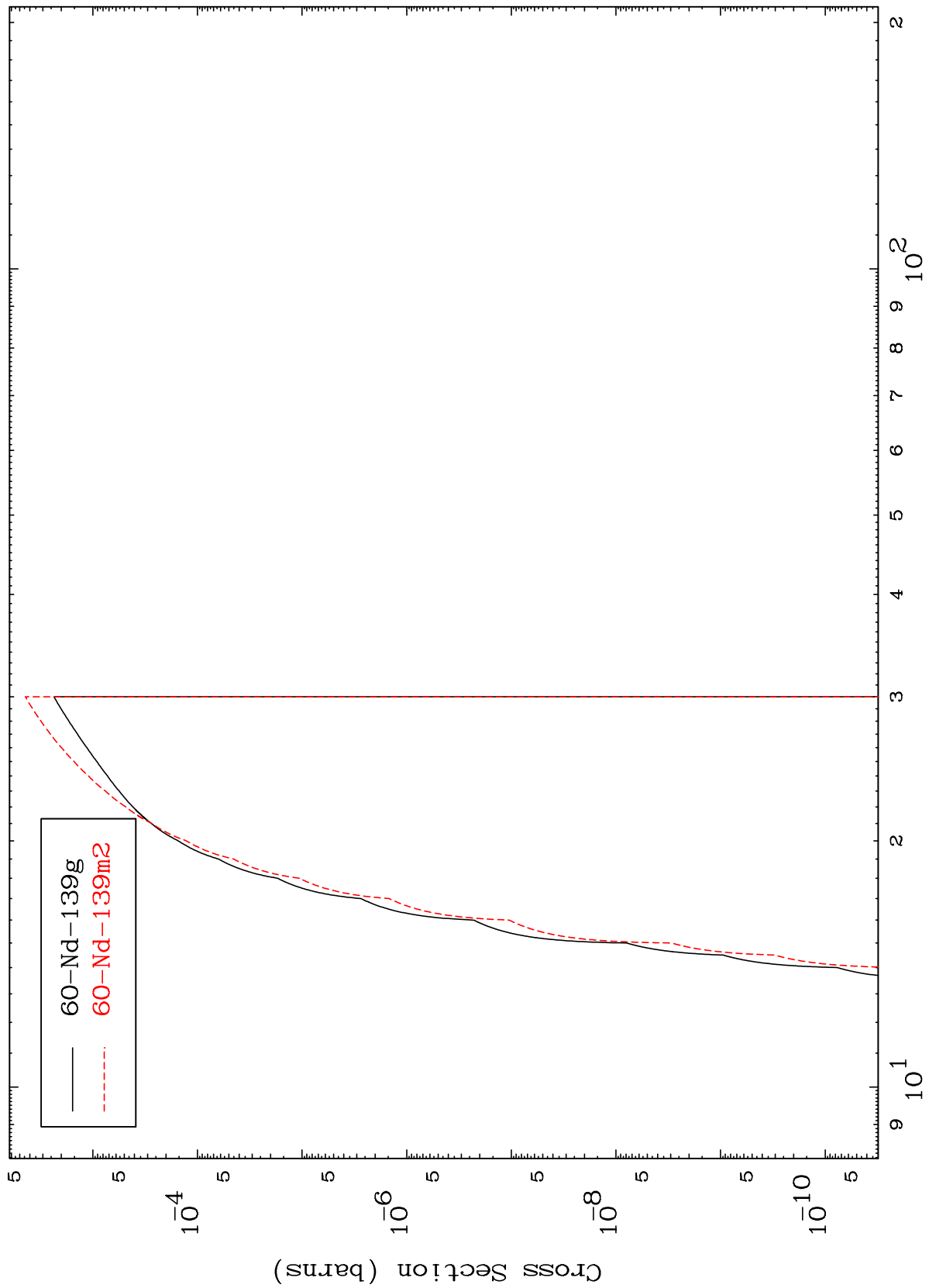
62-Sm-141

MAT 6216

(n,2n) p

62-Sm-141

Radionuclide Production Cross Section



60-Nd-139g
60-Nd-139m2

115

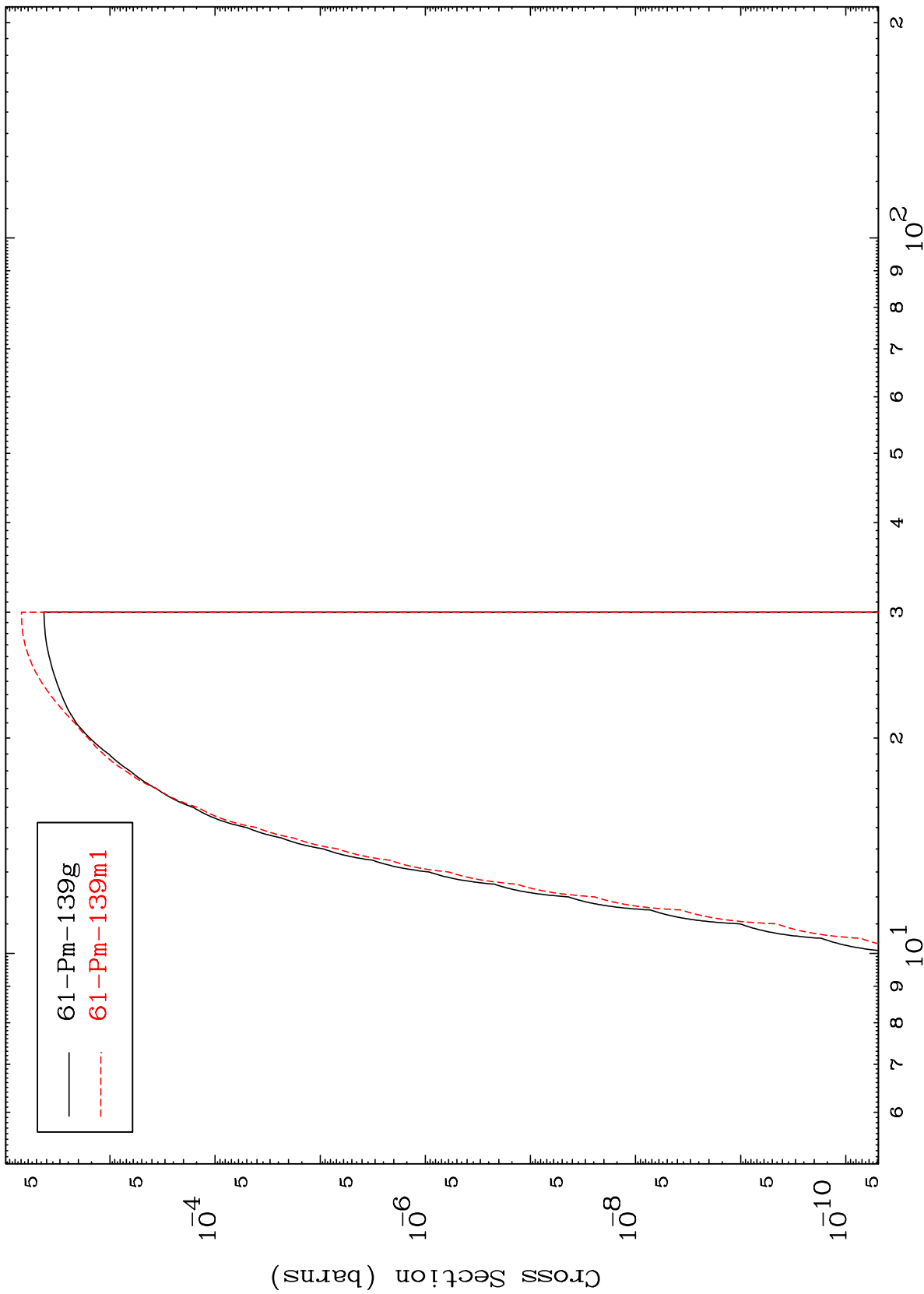
Incident Energy (MeV)

62-Sm-141

MAT 6216

62-Sm-141

(n, t)
Radionuclide Production Cross Section



116

Incident Energy (MeV)

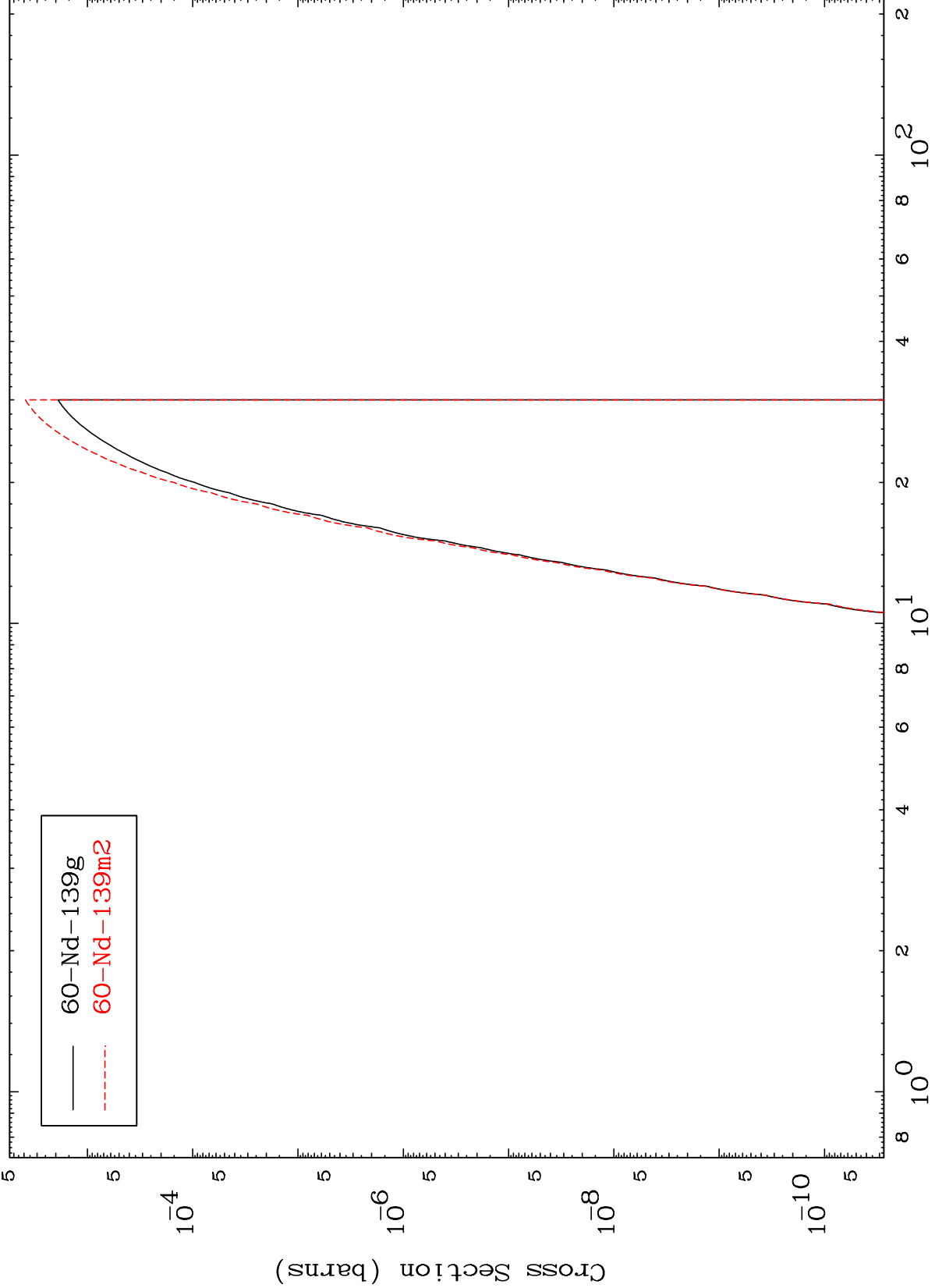
62-Sm-141

MAT 6216

(n,He-3)

62-Sm-141

Radionuclide Production Cross Section



117

Incident Energy (MeV)

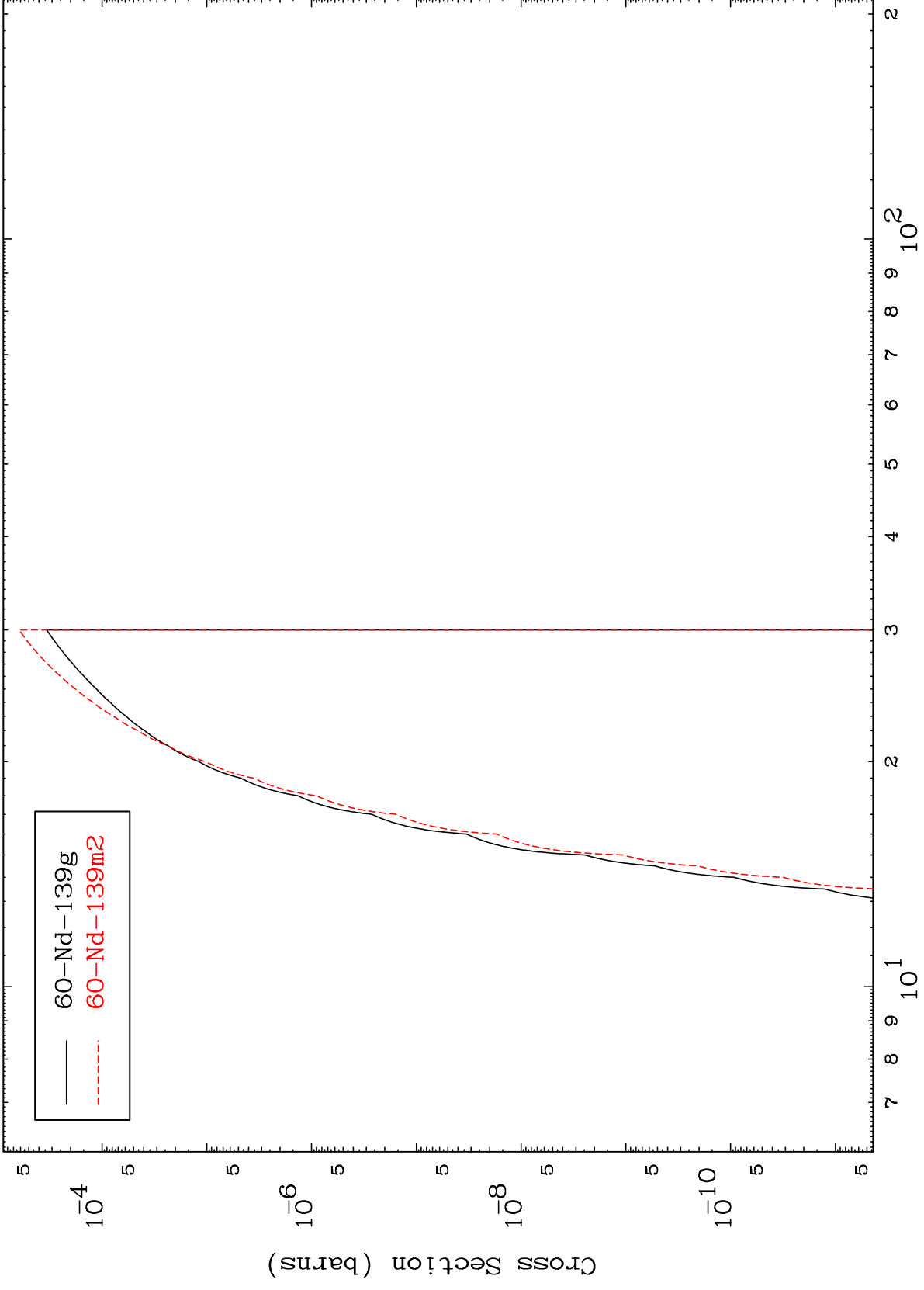
62-Sm-141

MAT 6216

(n,p) d

62-Sm-141

Radionuclide Production Cross Section



118

Incident Energy (MeV)

62-Sm-141