

Program EVALPLOT
(Version 2018-1)

by

Dermott E. Cullen
(Present Contact Information)

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

Tele: 925-443-1911

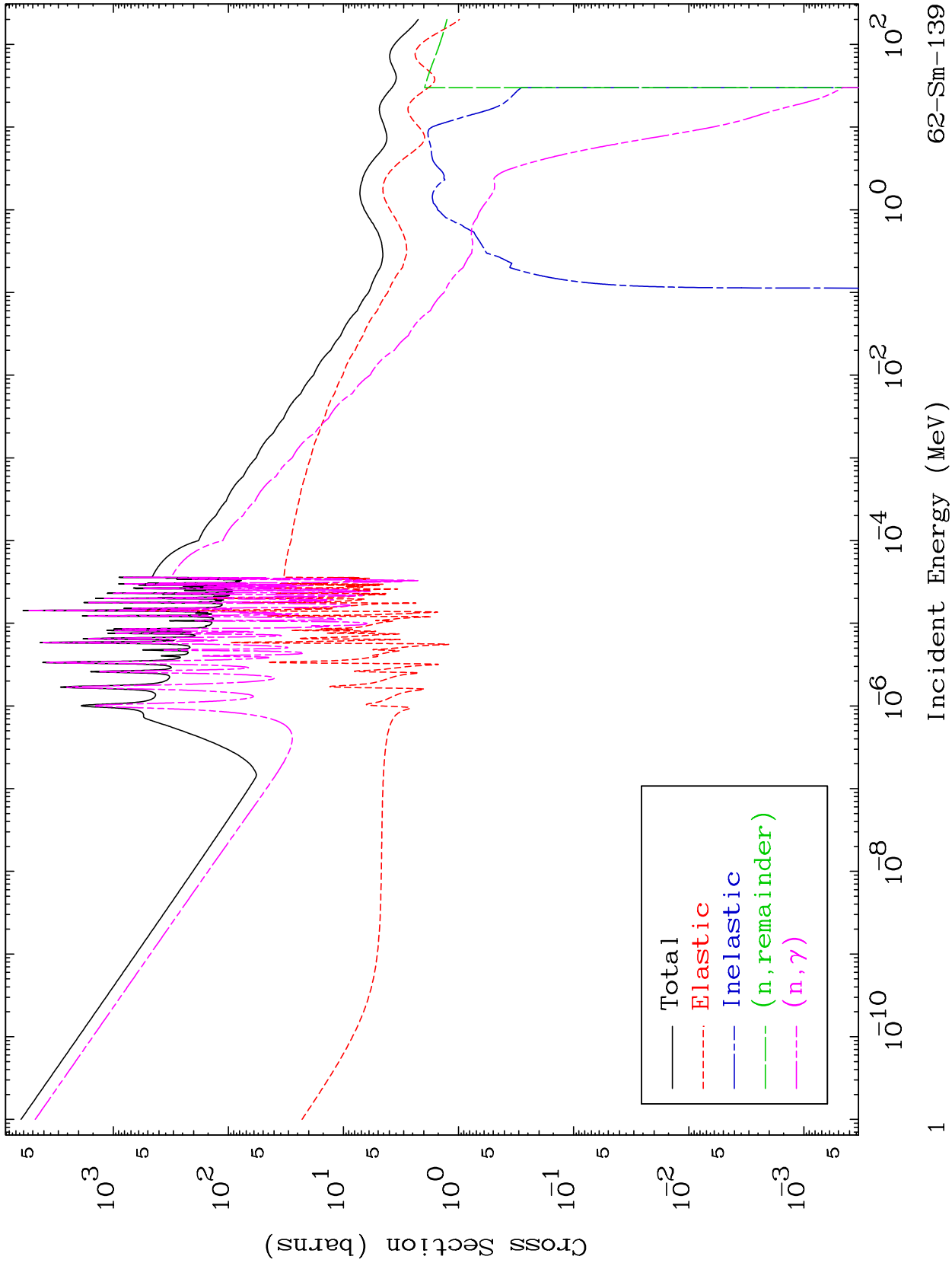
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6210

Major
293 Kelvin Cross Sections

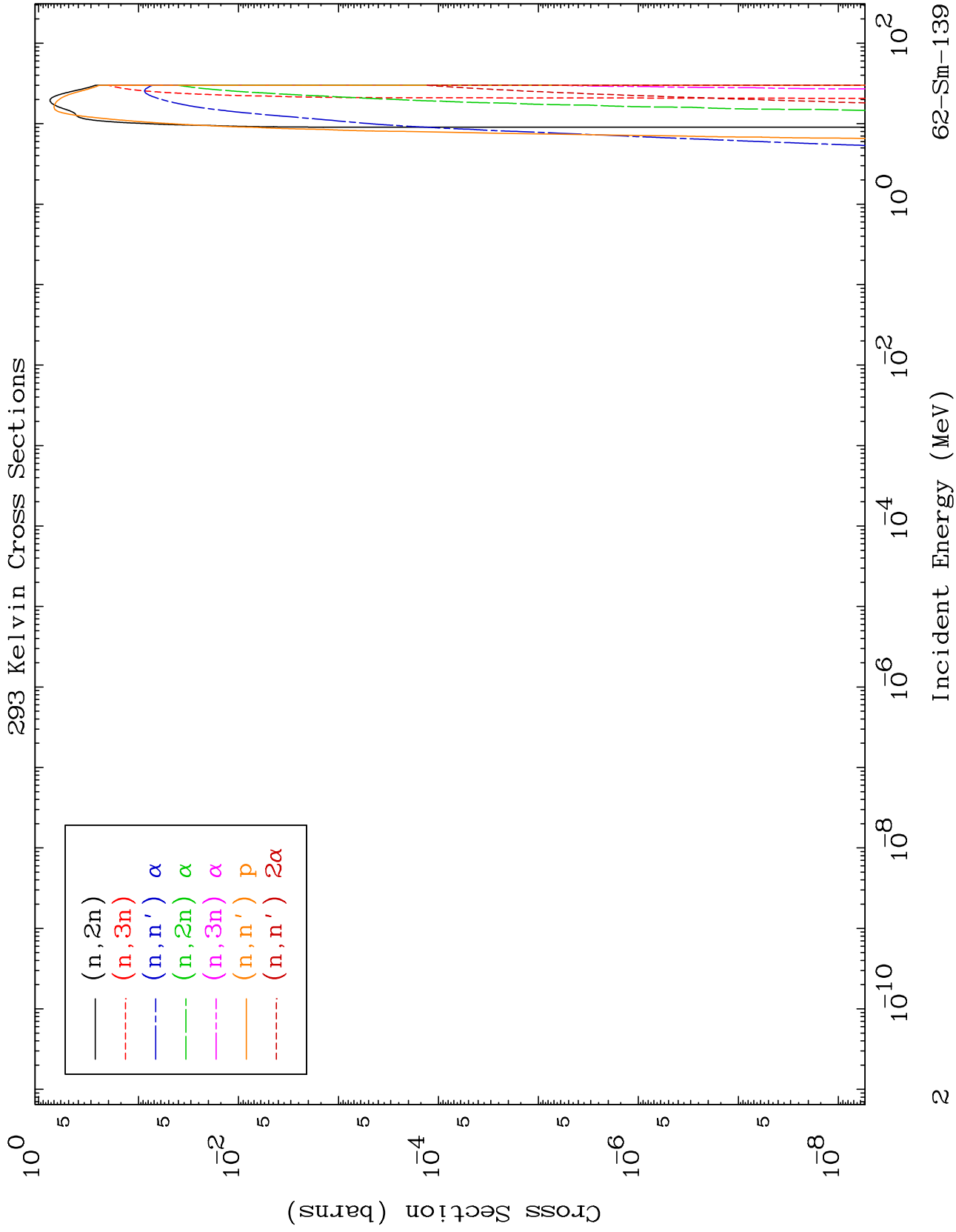
62-Sm-139



MAT 6210

Neutron Production
293 Kelvin Cross Sections

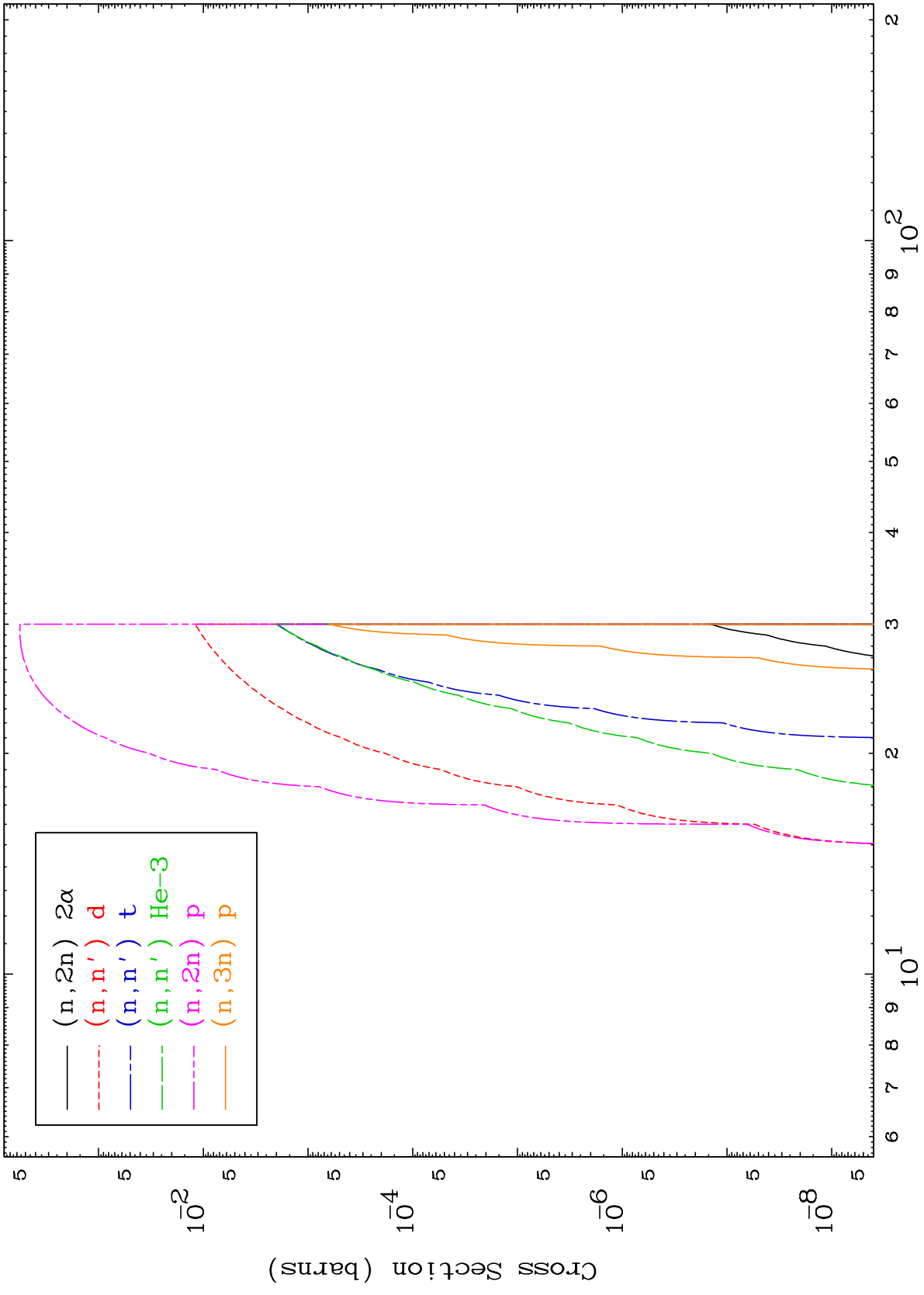
62-Sm-139



MAT 6210

Neutron Production
293 Kelvin Cross Sections

62-Sm-139



3

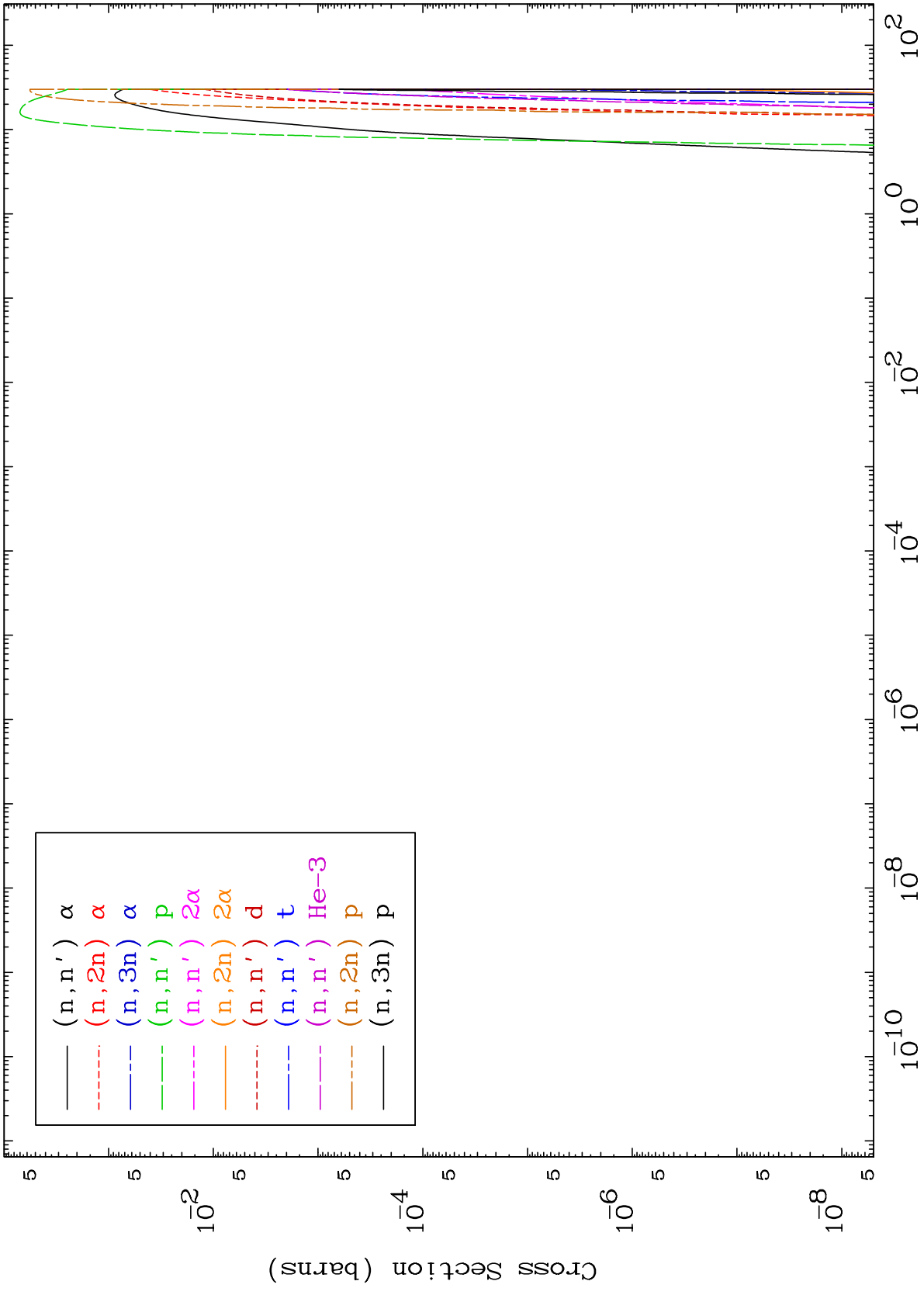
Incident Energy (MeV)

62-Sm-139

MAT 6210

Charged Particle
293 Kelvin Cross Sections

62-Sm-139



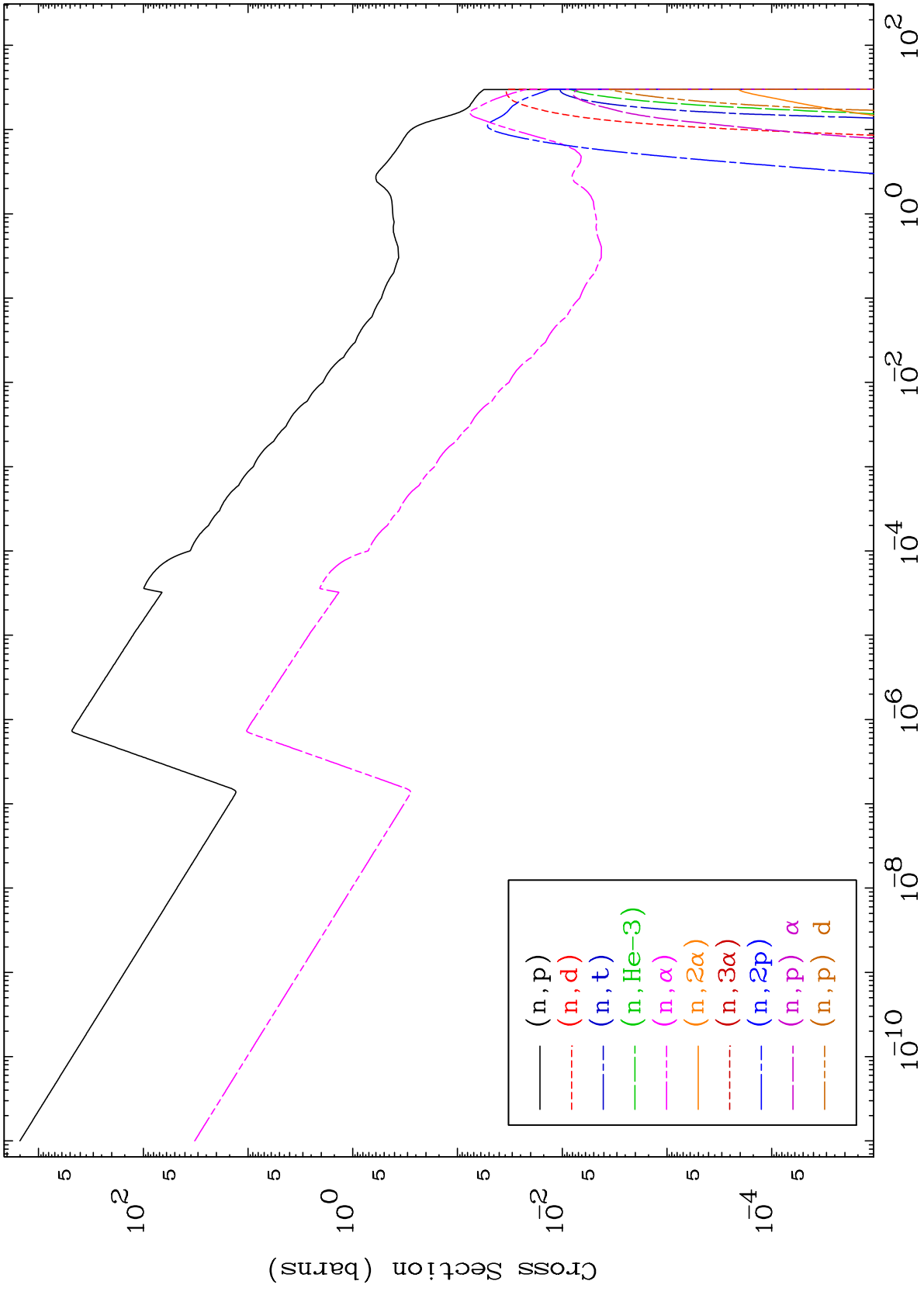
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Incident Energy (MeV)

MAT 6210

293 Kelvin Cross Sections

62-Sm-139

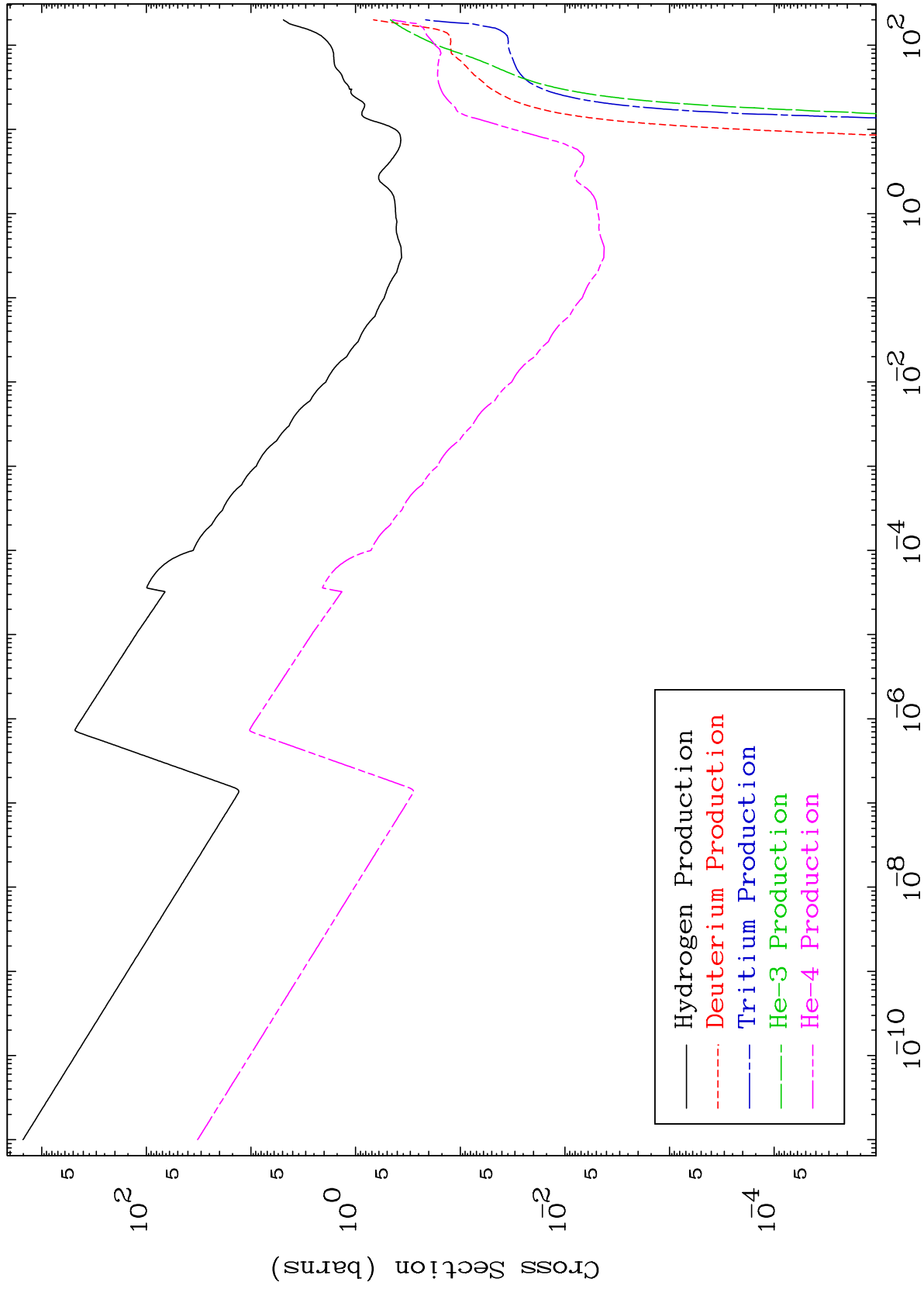


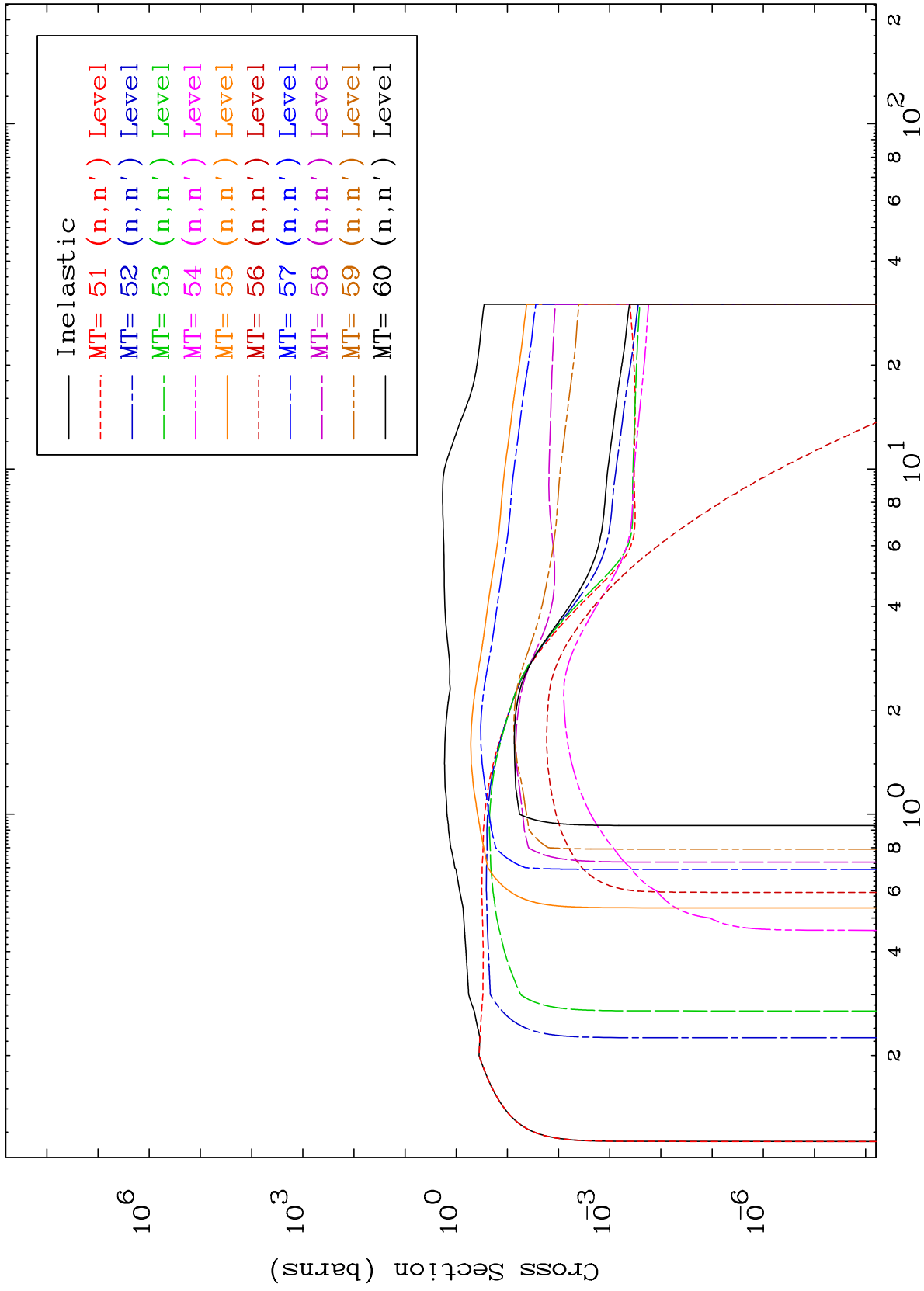
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MAT 6210

Particle Production
293 Kelvin Cross Sections

62-Sm-139



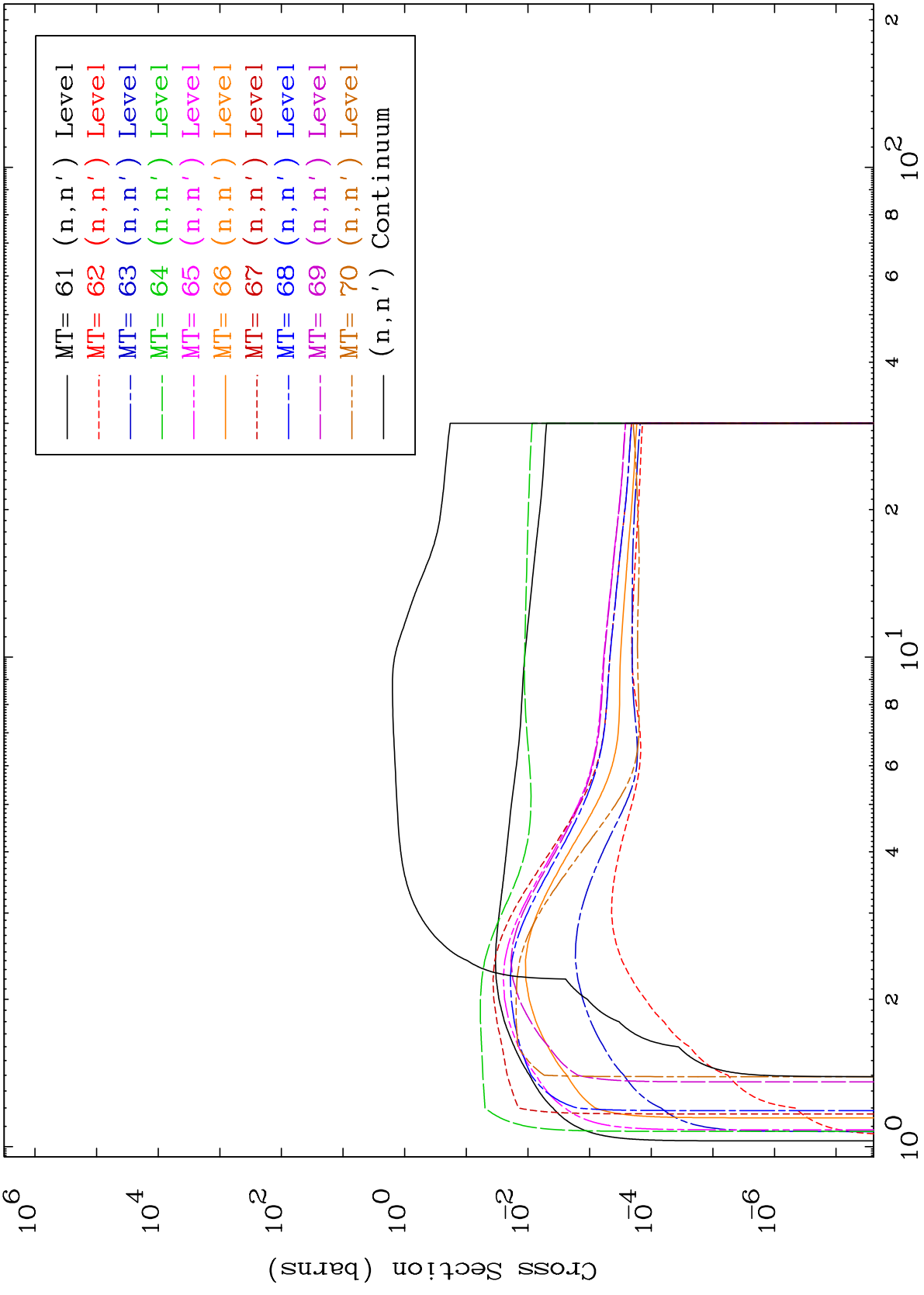


MAT 6210

(n,n') Level

62-Sm-139

293 Kelvin Cross Sections



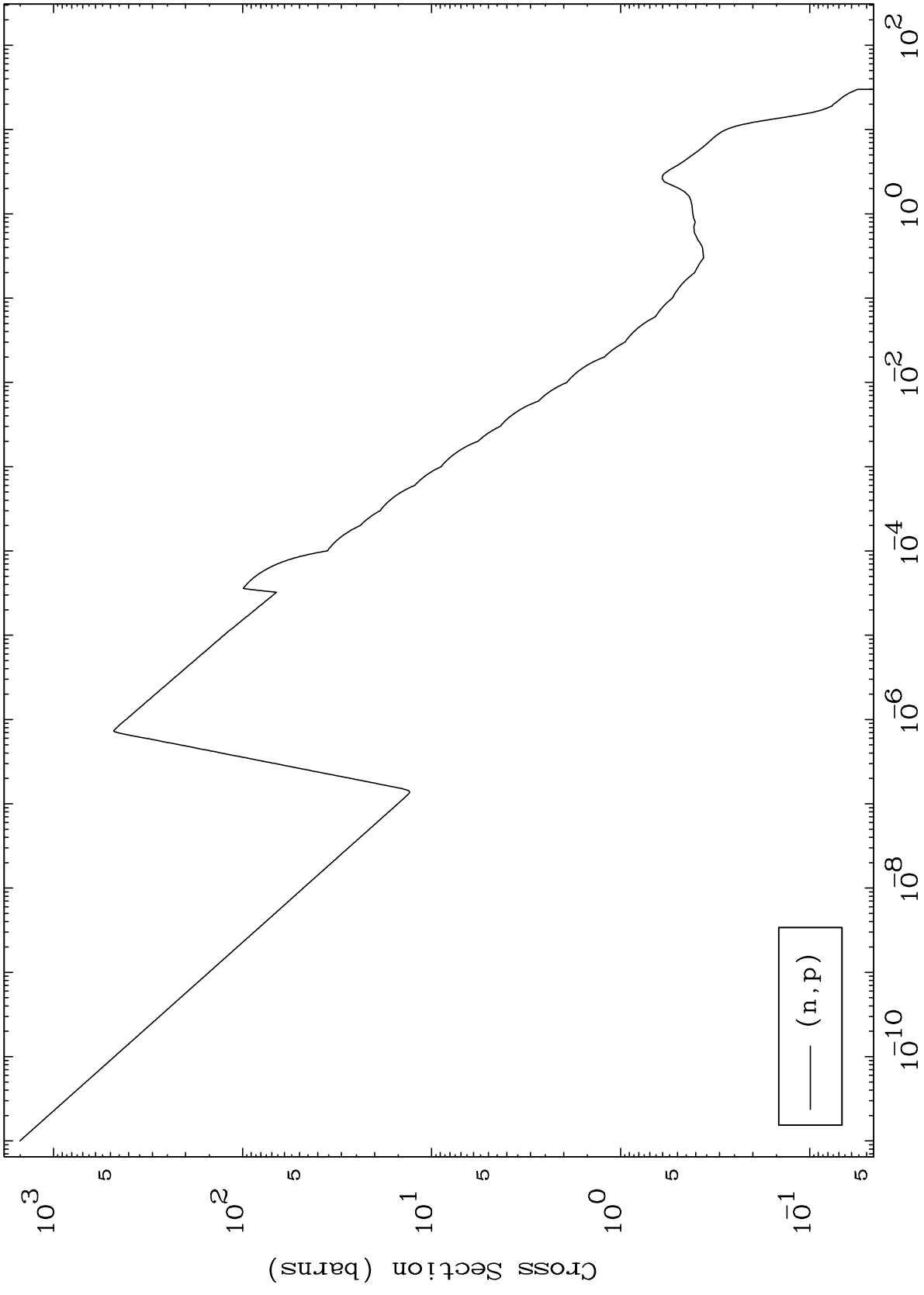
Incident Energy (MeV)

62-Sm-139

MAT 6210

(n,p) Levels
293 Kelvin Cross Sections

62-Sm-139

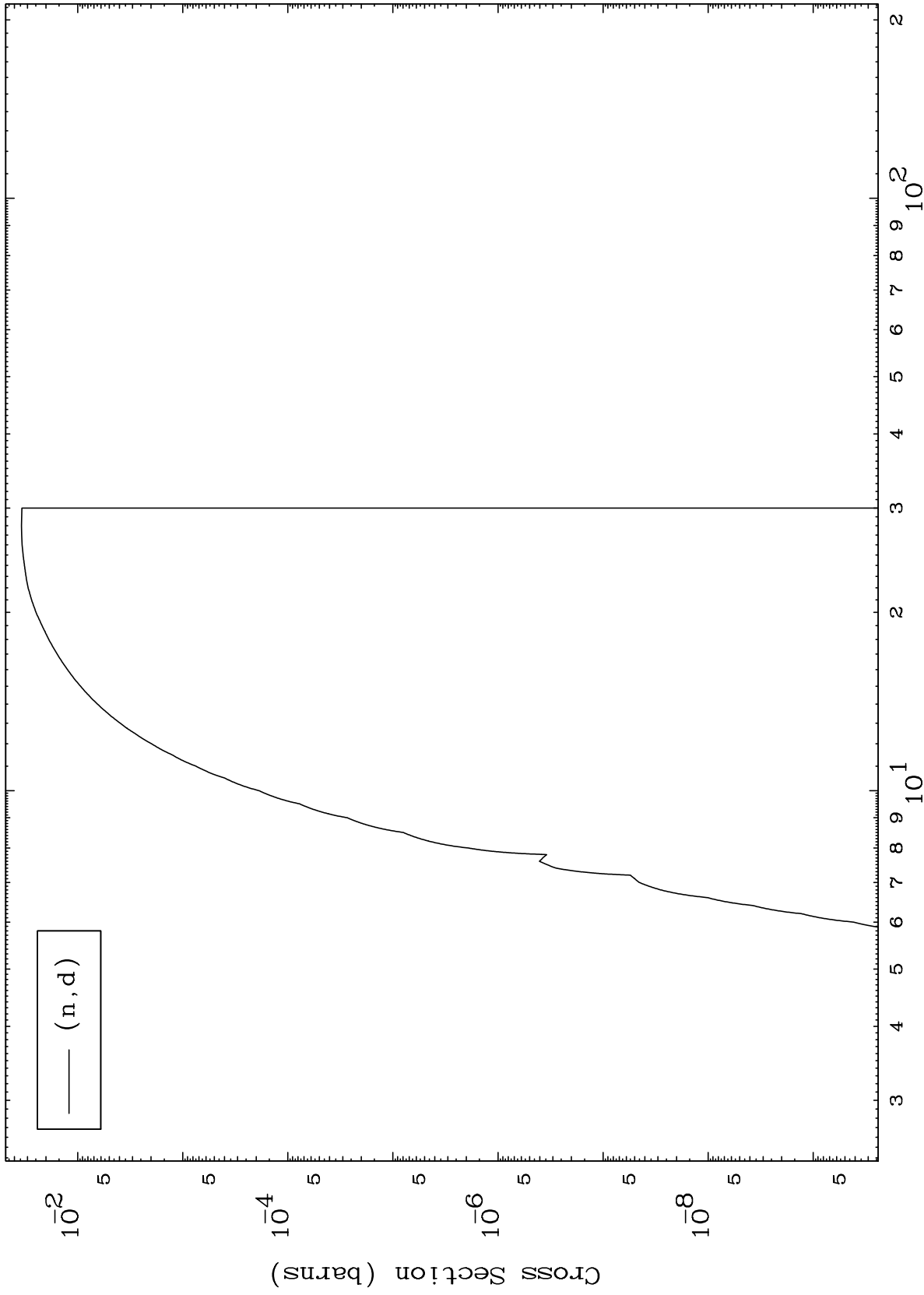


62-Sm-139

MAT 6210

(n,d) Levels
293 Kelvin Cross Sections

62-Sm-139



10

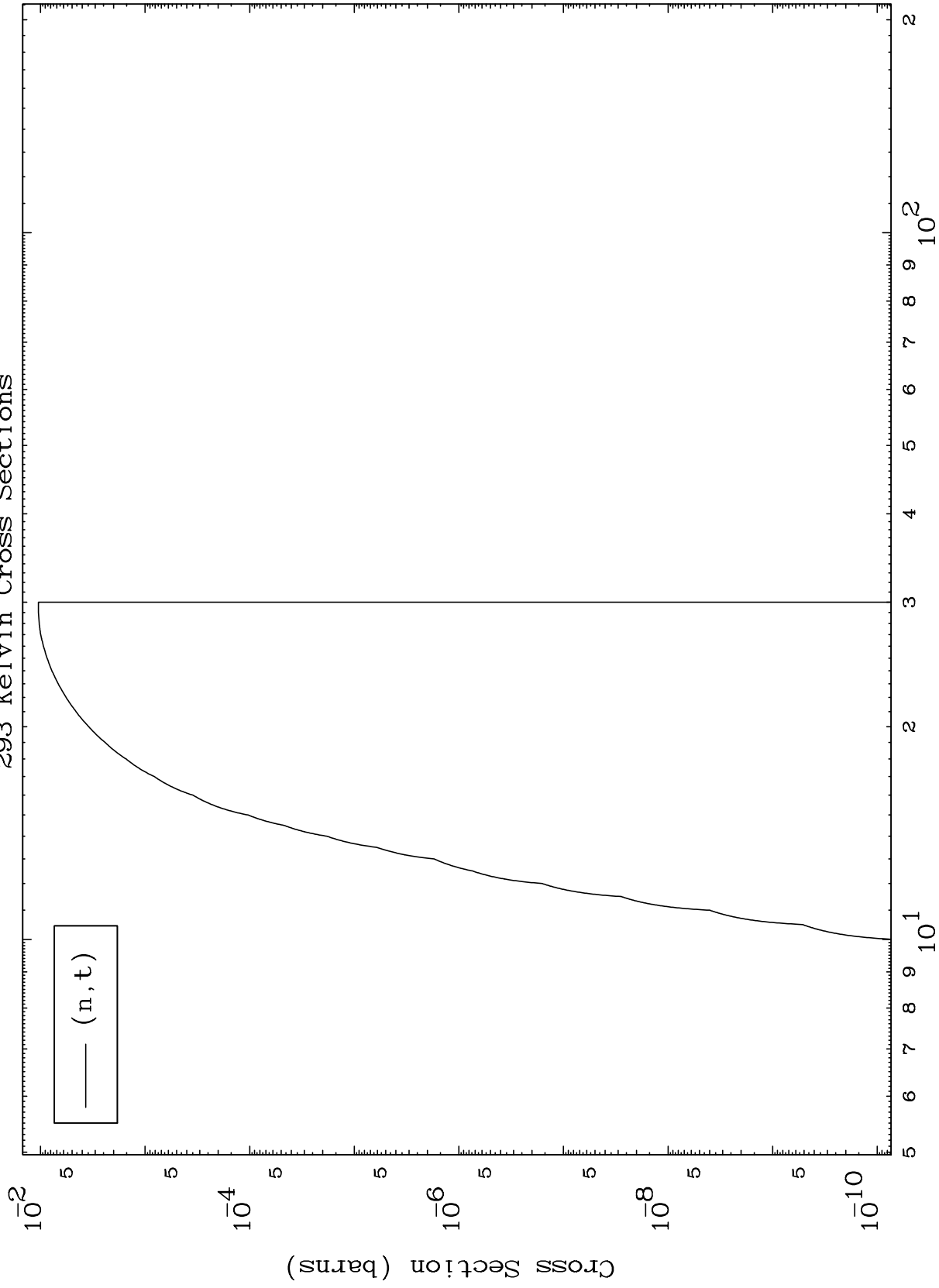
Incident Energy (MeV)

62-Sm-139

MAT 6210

(n,t) Levels
293 Kelvin Cross Sections

62-Sm-139



11

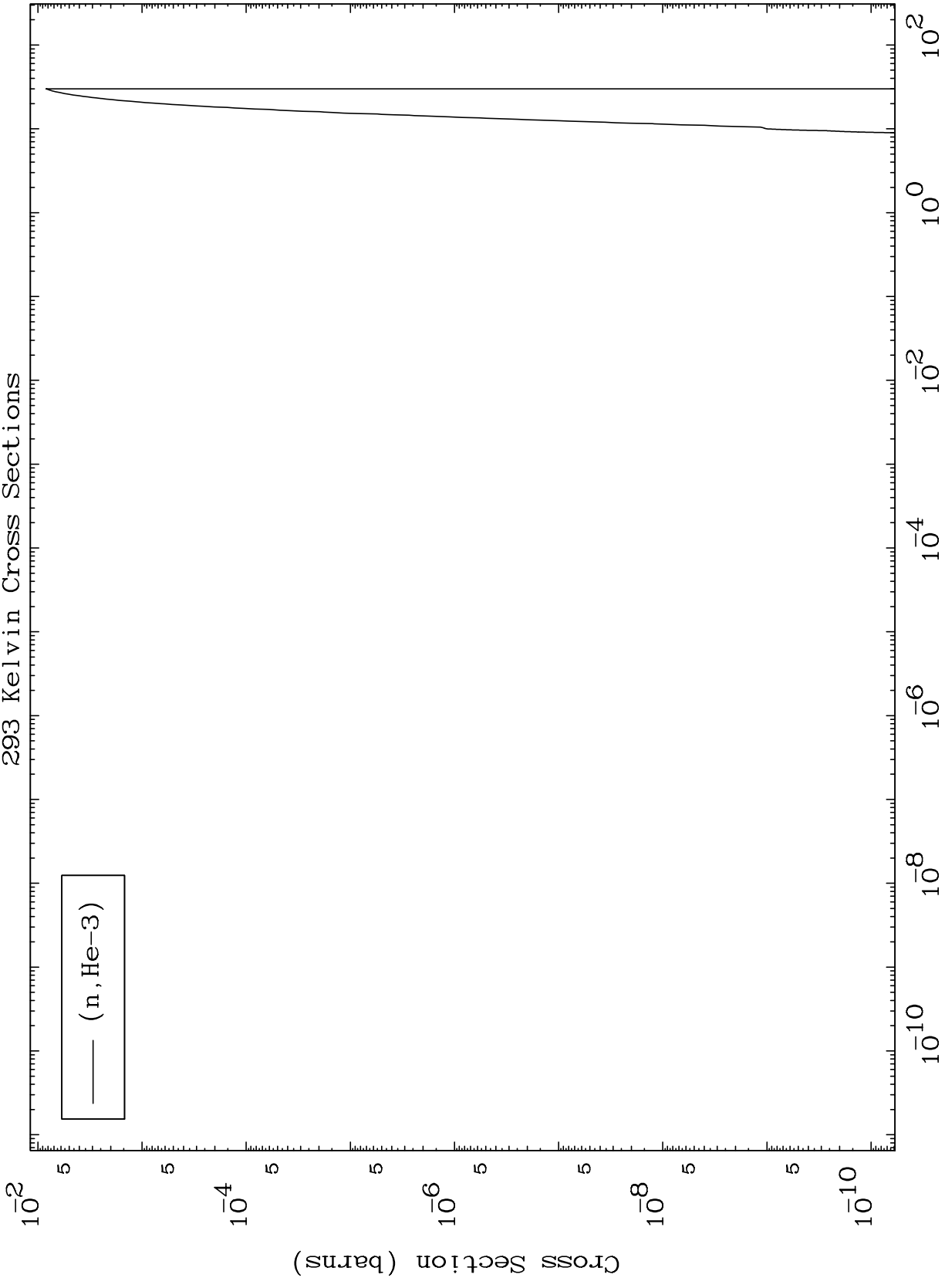
Incident Energy (MeV)

62-Sm-139

MAT 6210

(n,He3) Levels
293 Kelvin Cross Sections

62-Sm-139



12

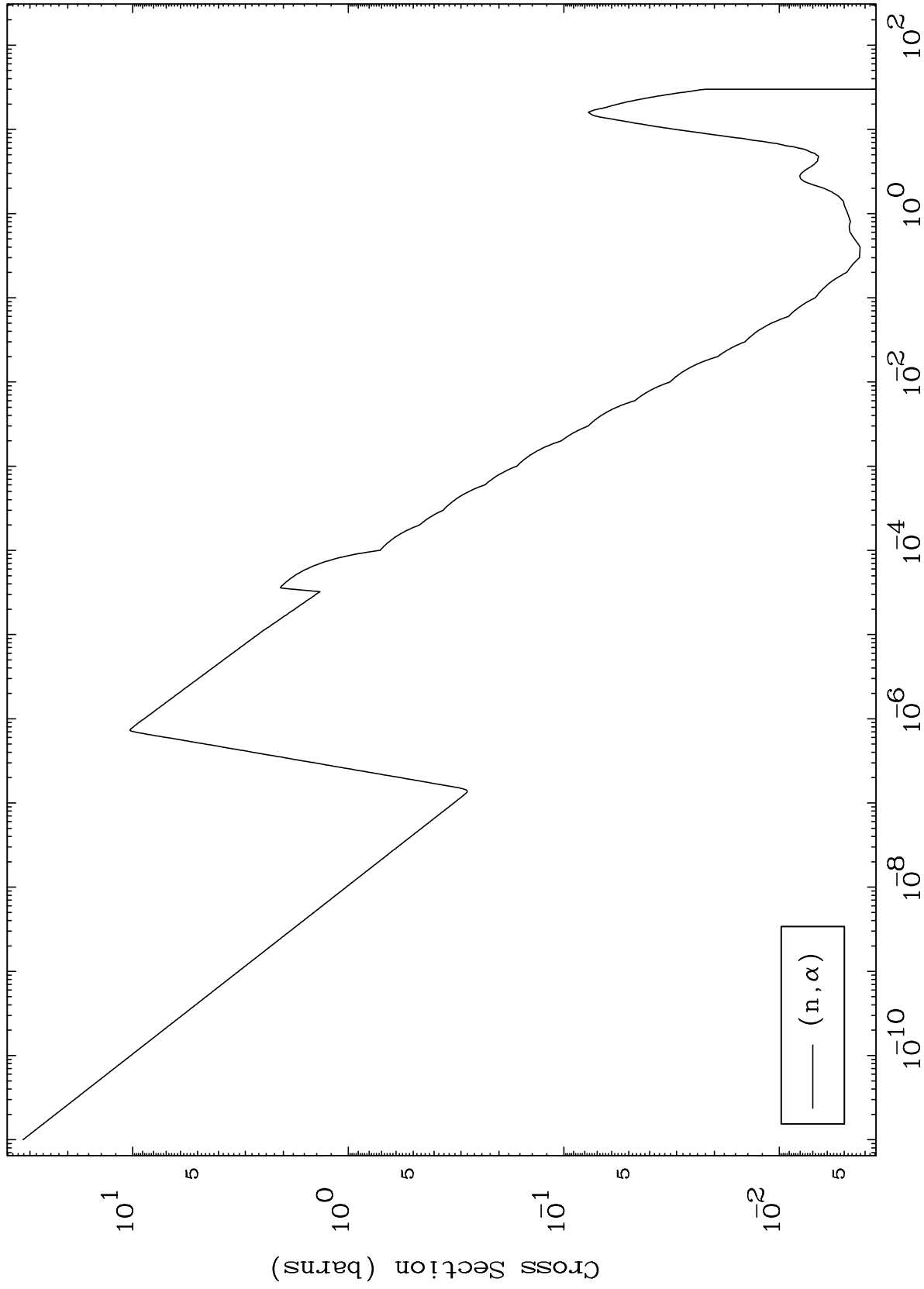
Incident Energy (MeV)

62-Sm-139

MAT 6210

(n,α) Levels
293 Kelvin Cross Sections

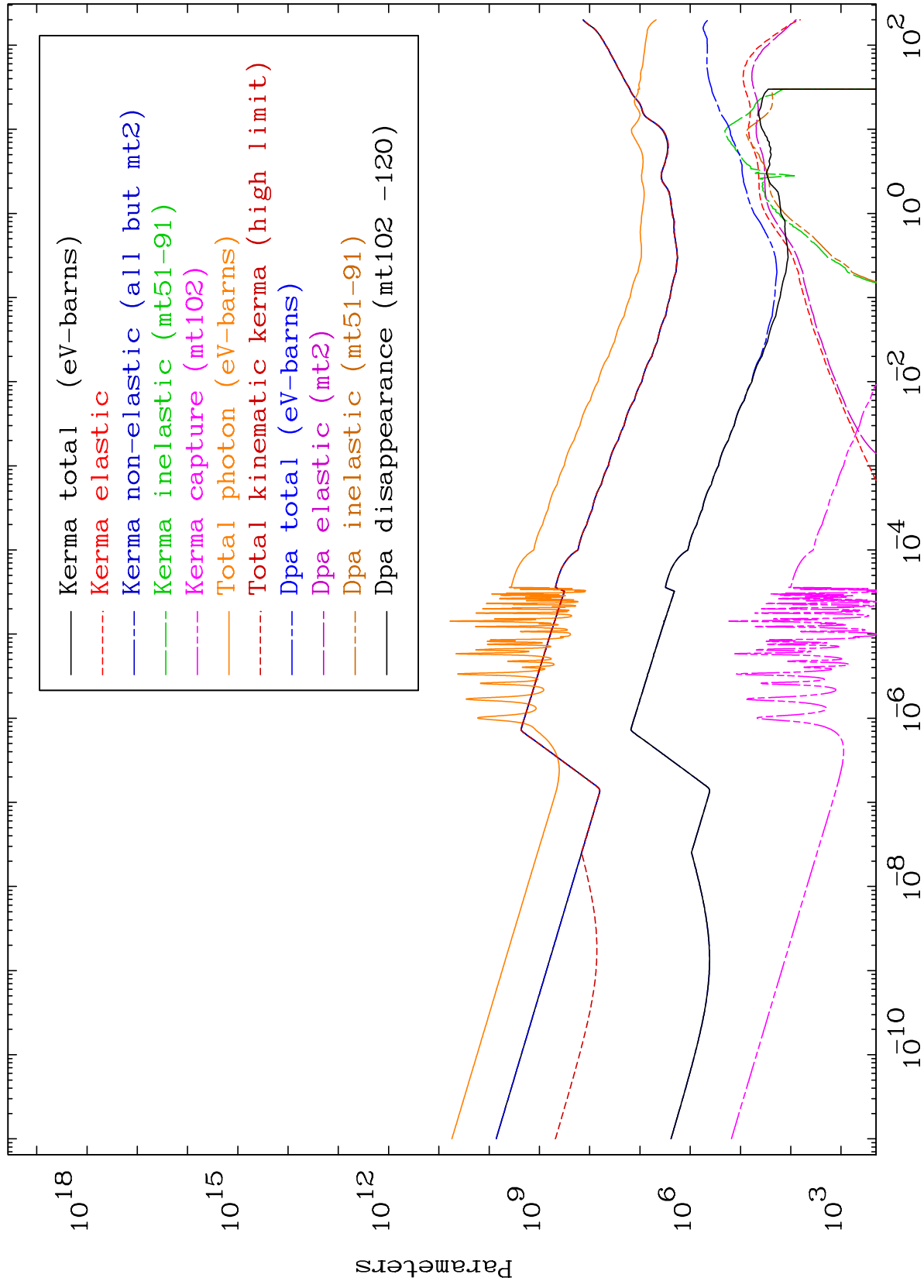
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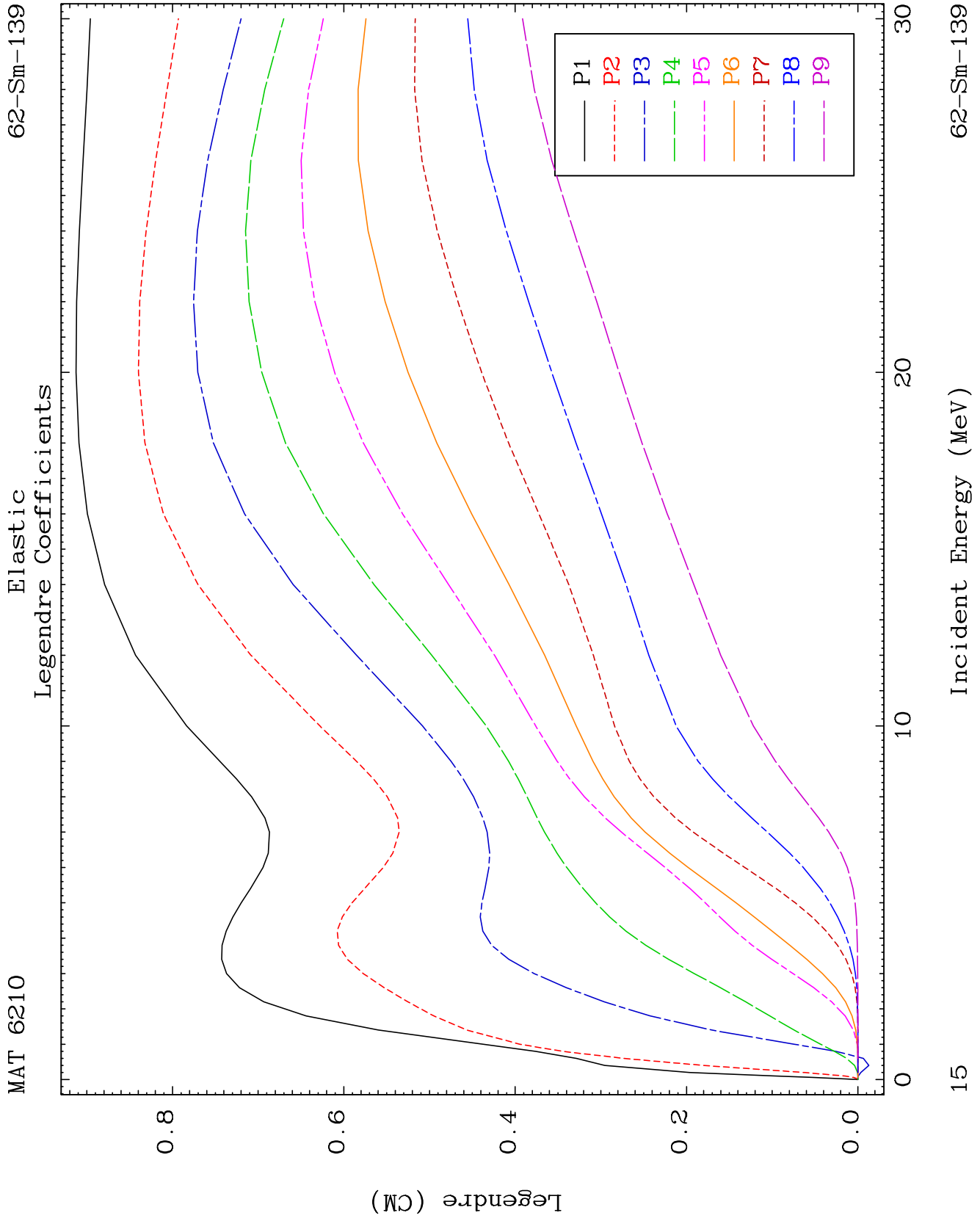


13

Incident Energy (MeV)

62-Sm-139

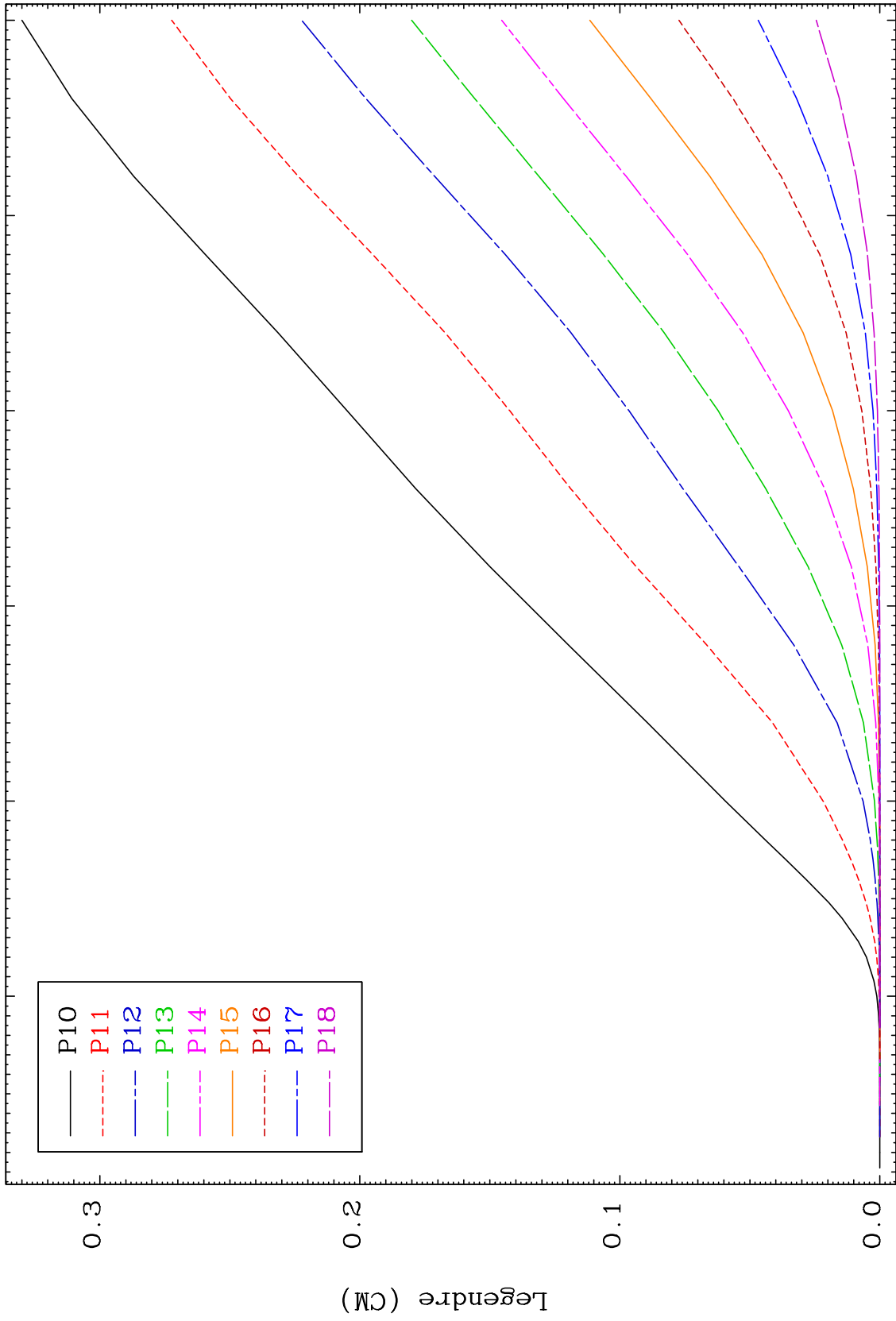




MAT 6210

Elastic Legendre Coefficients

62-Sm-139



16

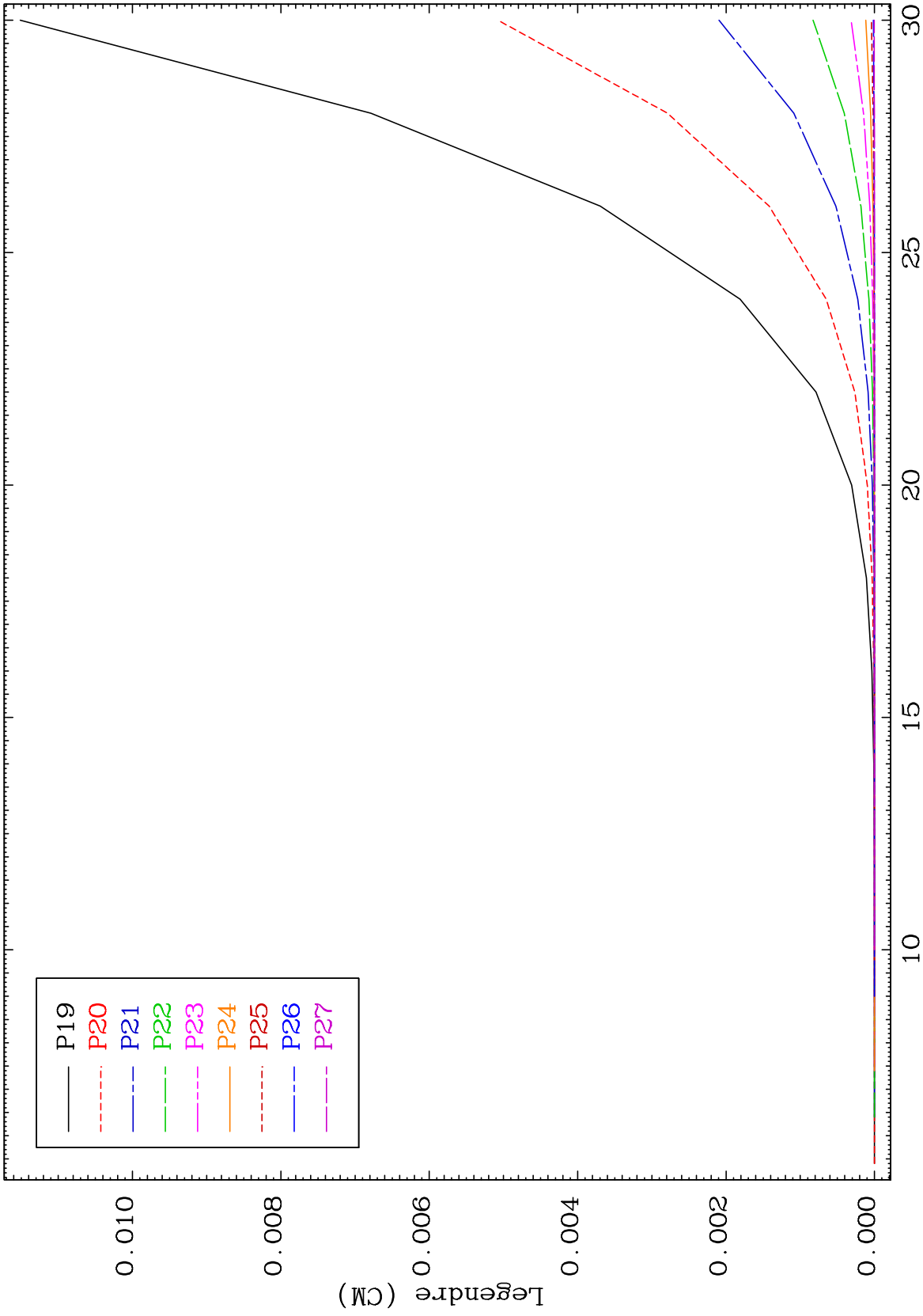
Incident Energy (MeV)

62-Sm-139

MAT 6210

Elastic Legendre Coefficients

62-Sm-139



17

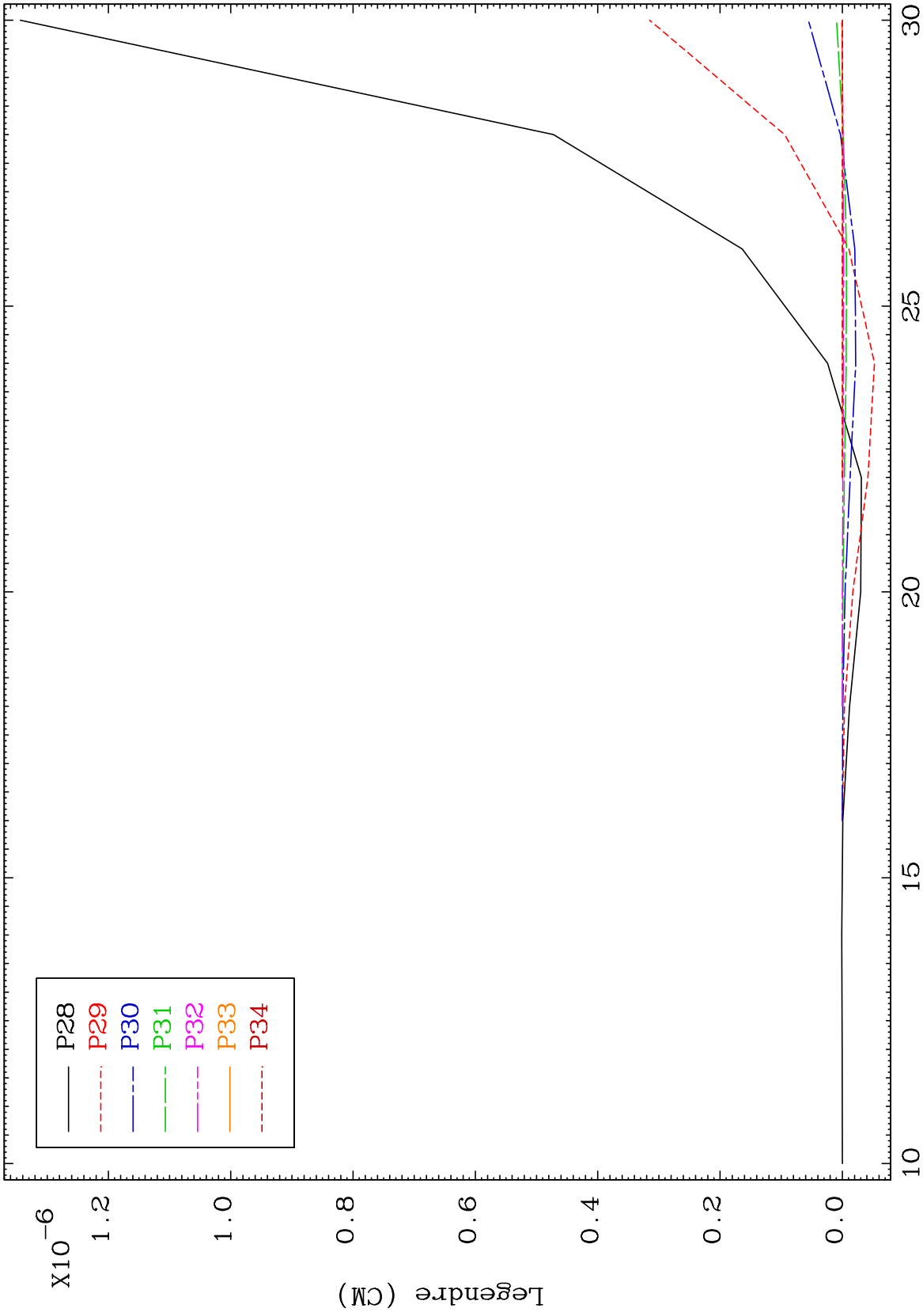
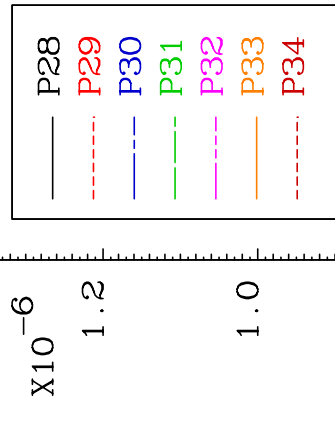
Incident Energy (MeV)

62-Sm-139

MAT 6210

Elastic Legendre Coefficients

62-Sm-139



18

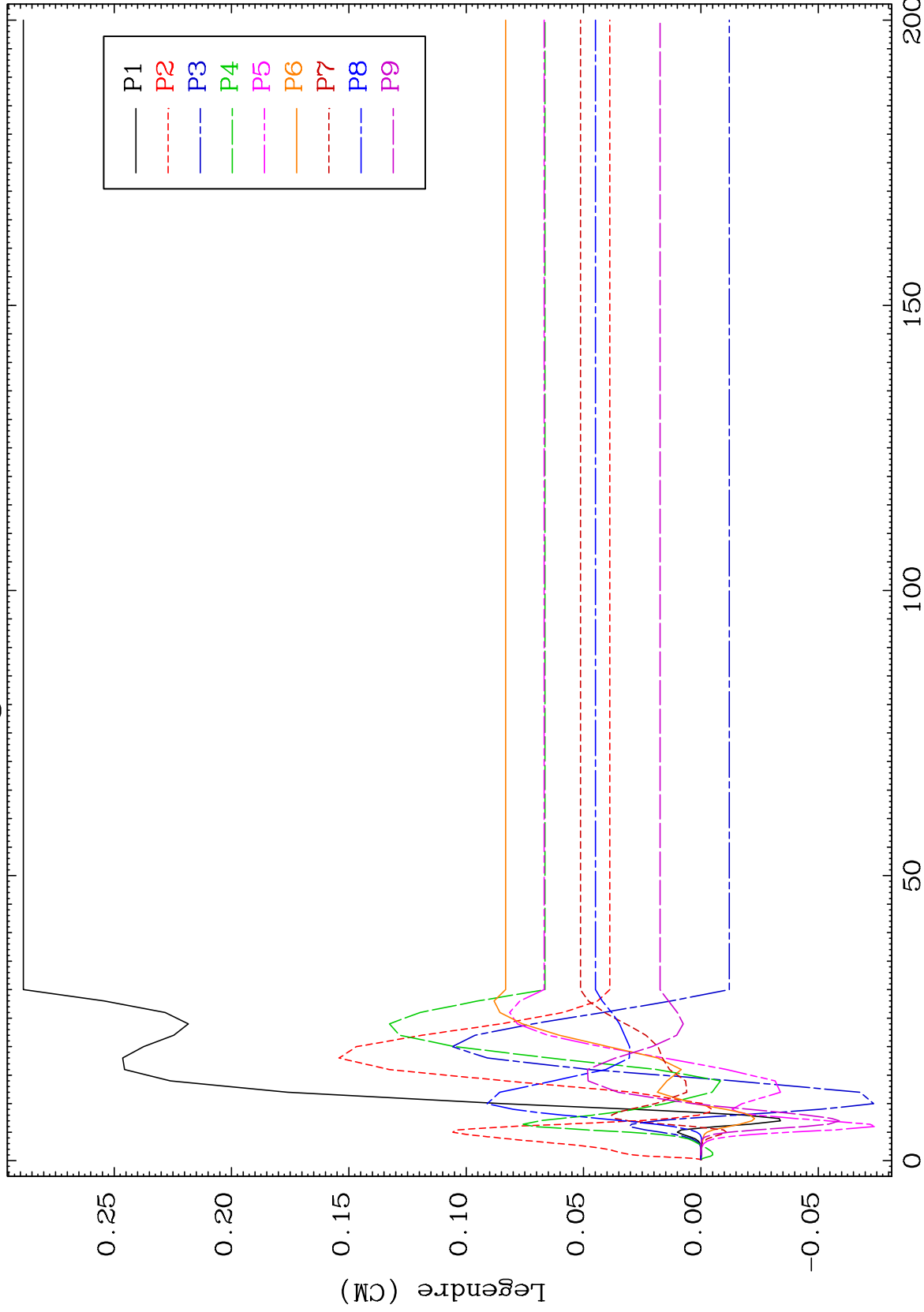
Incident Energy (MeV)

62-Sm-139

MAT 6210

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

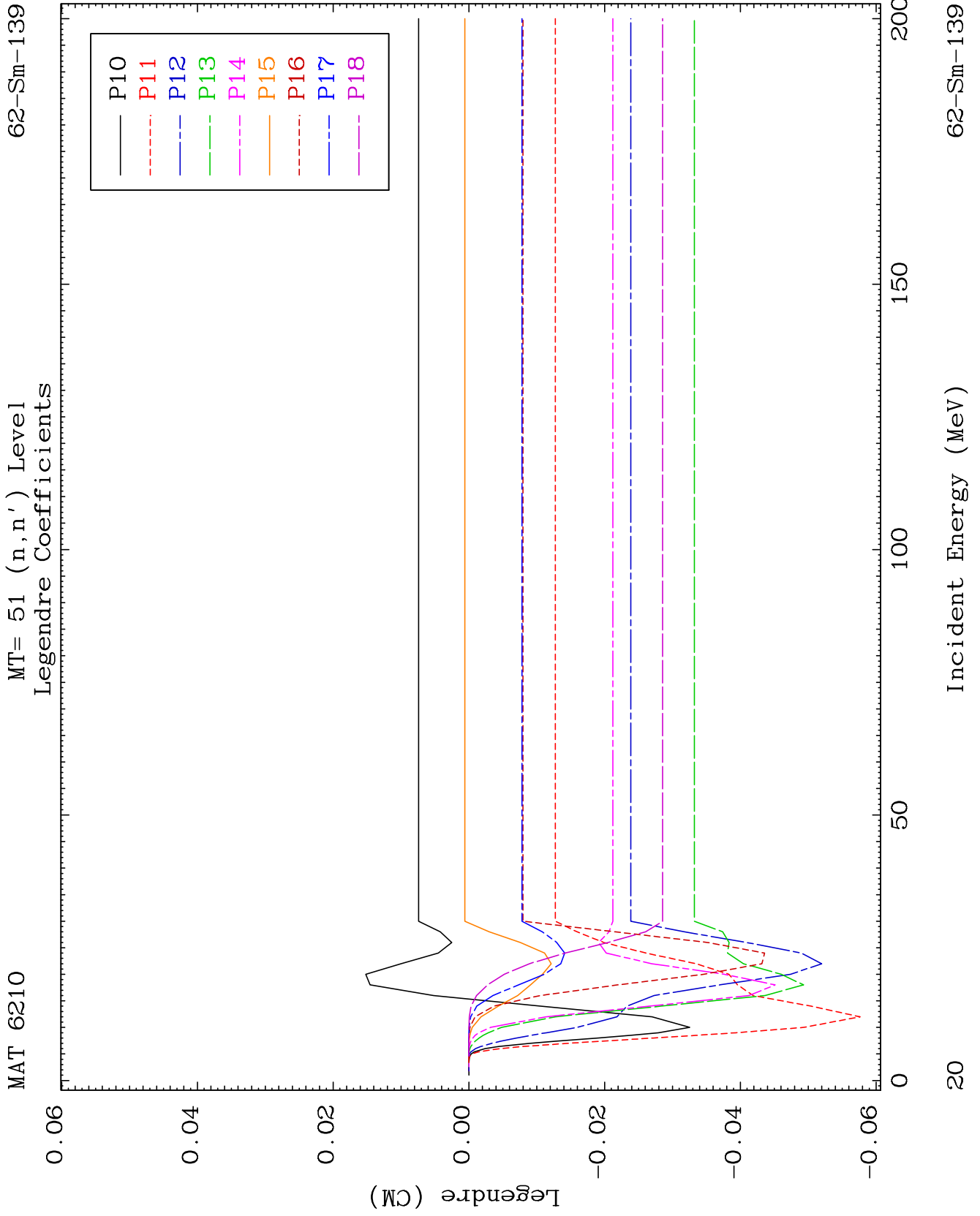
62-Sm-139



19

Incident Energy (MeV)

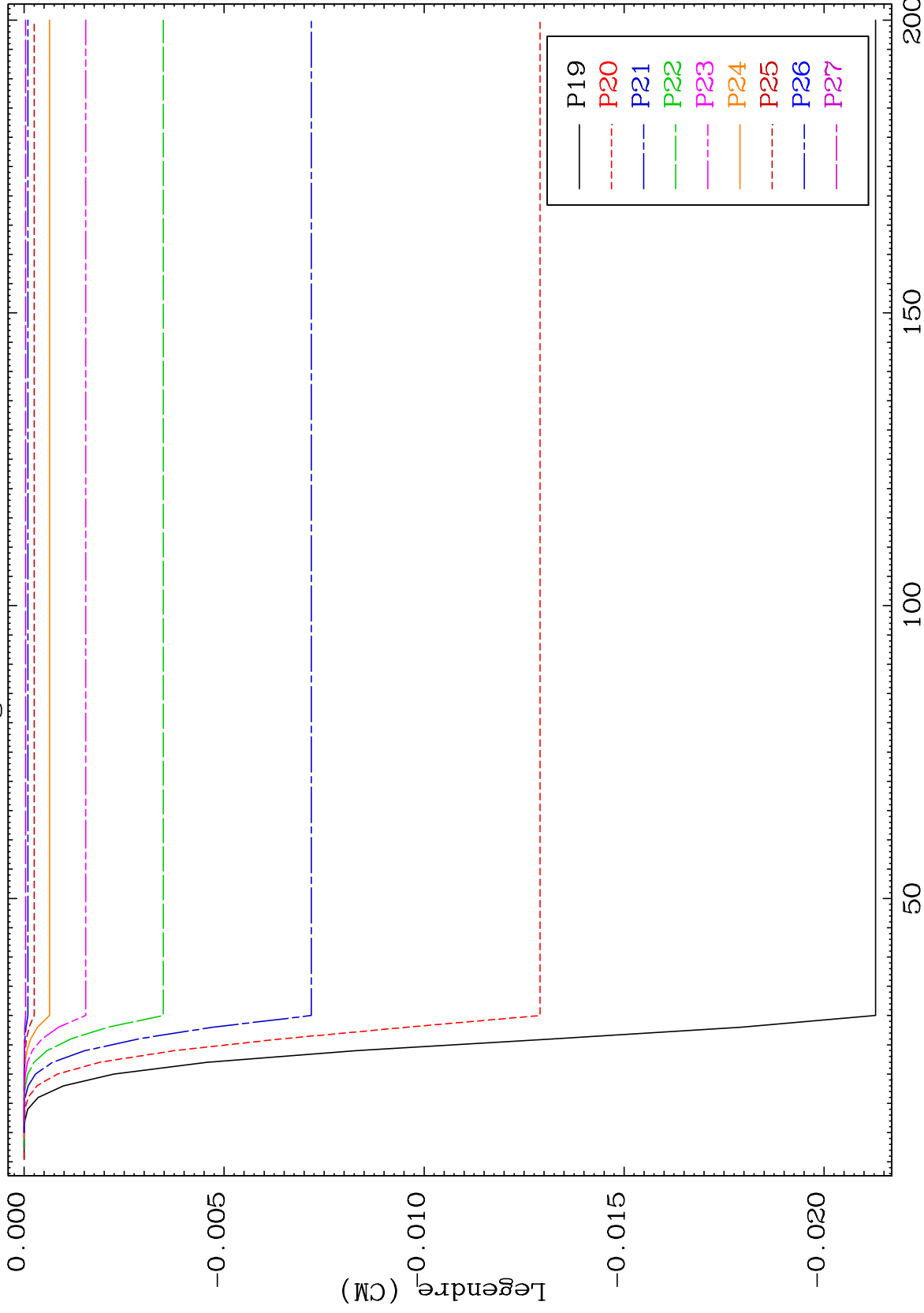
62-Sm-139



MAT 6210

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

62-Sm-139



62-Sm-139

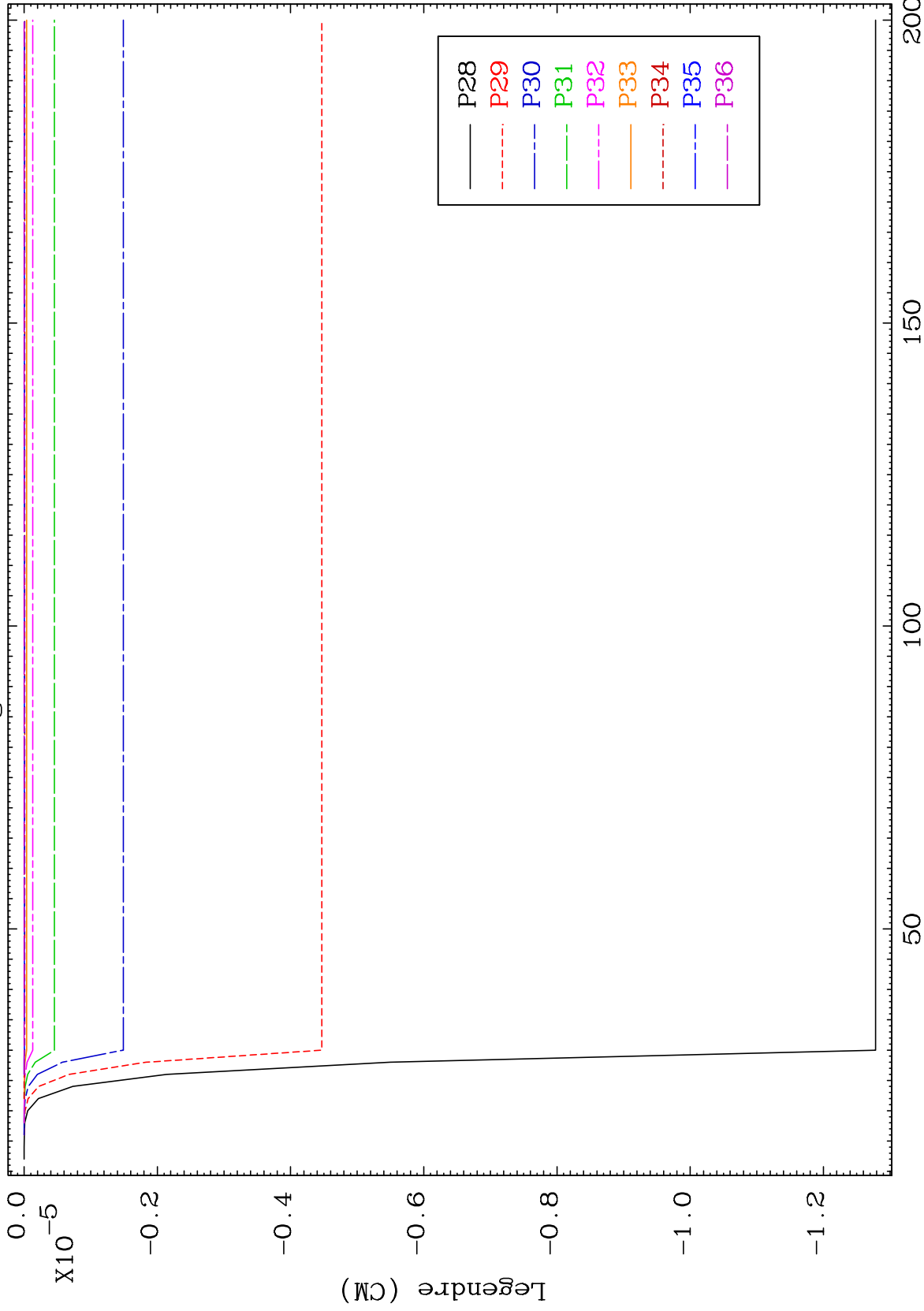
Incident Energy (MeV)

21

MAT 6210

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

62-Sm-139



22

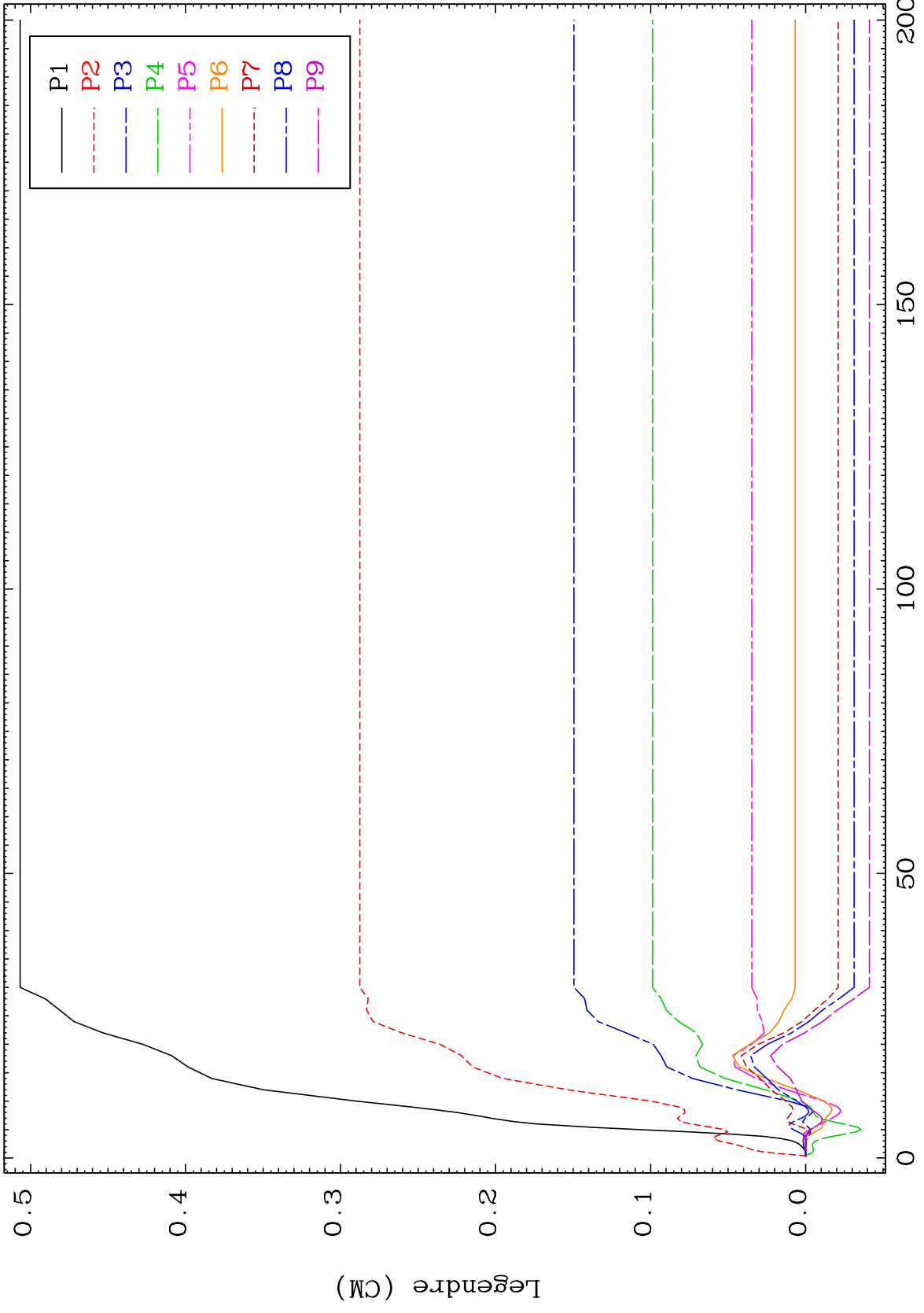
62-Sm-139

200

MAT 6210

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

62-Sm-139



23

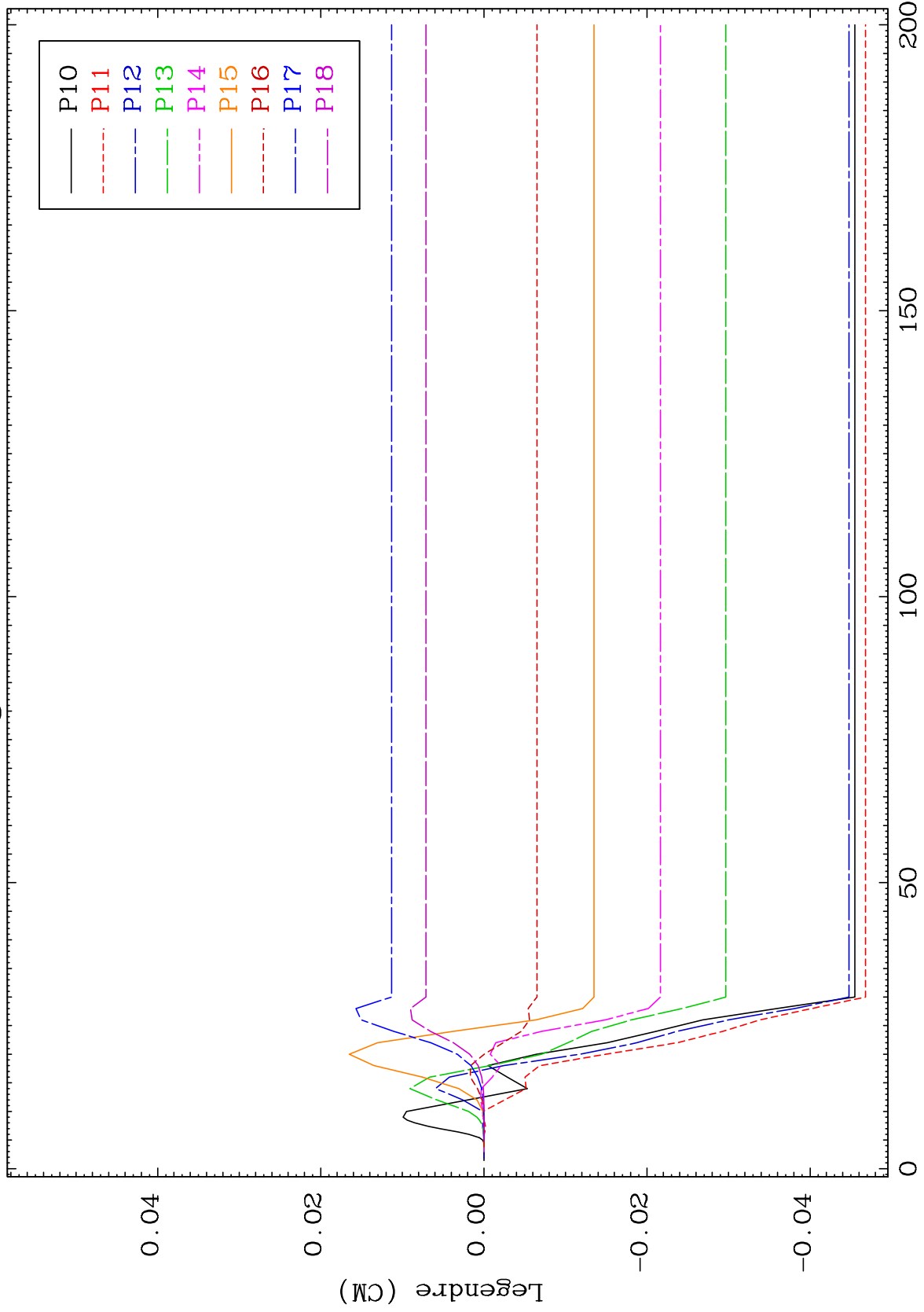
Incident Energy (MeV)

62-Sm-139

MAT 6210

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

62-Sm-139



24

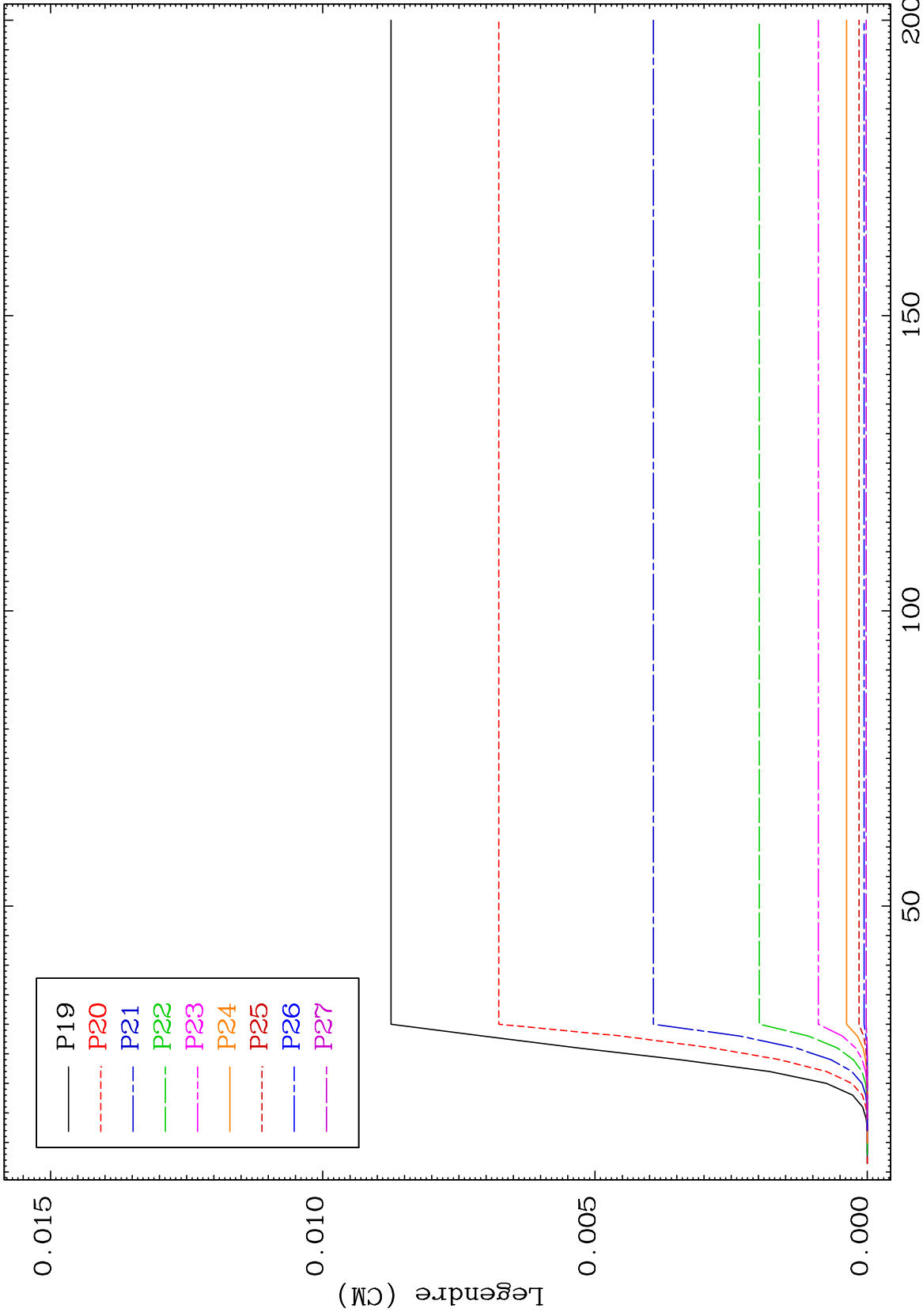
Incident Energy (MeV)

62-Sm-139

MAT 6210

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

62-Sm-139



25

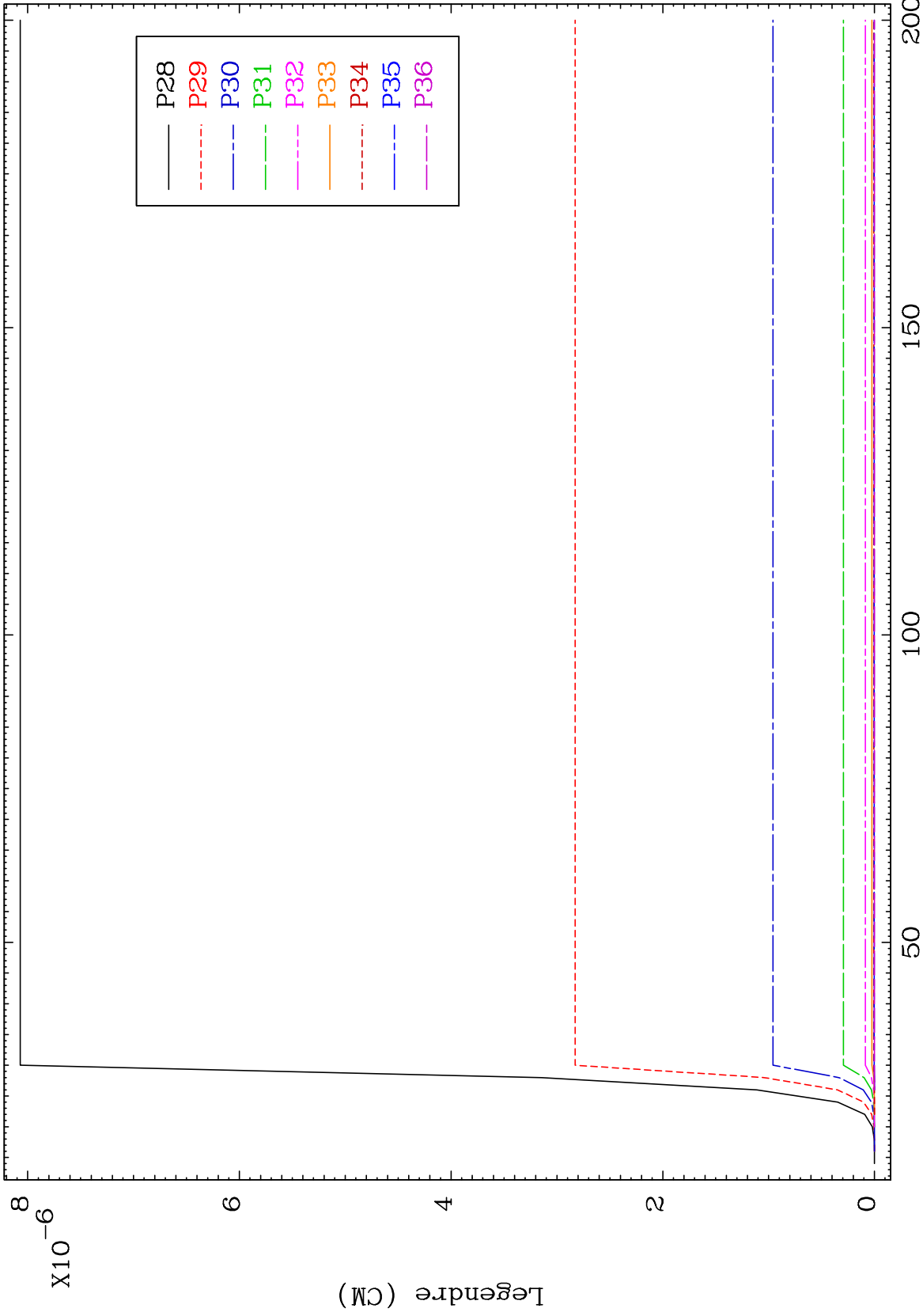
Incident Energy (MeV)

62-Sm-139

MAT 6210

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

62-Sm-139



26

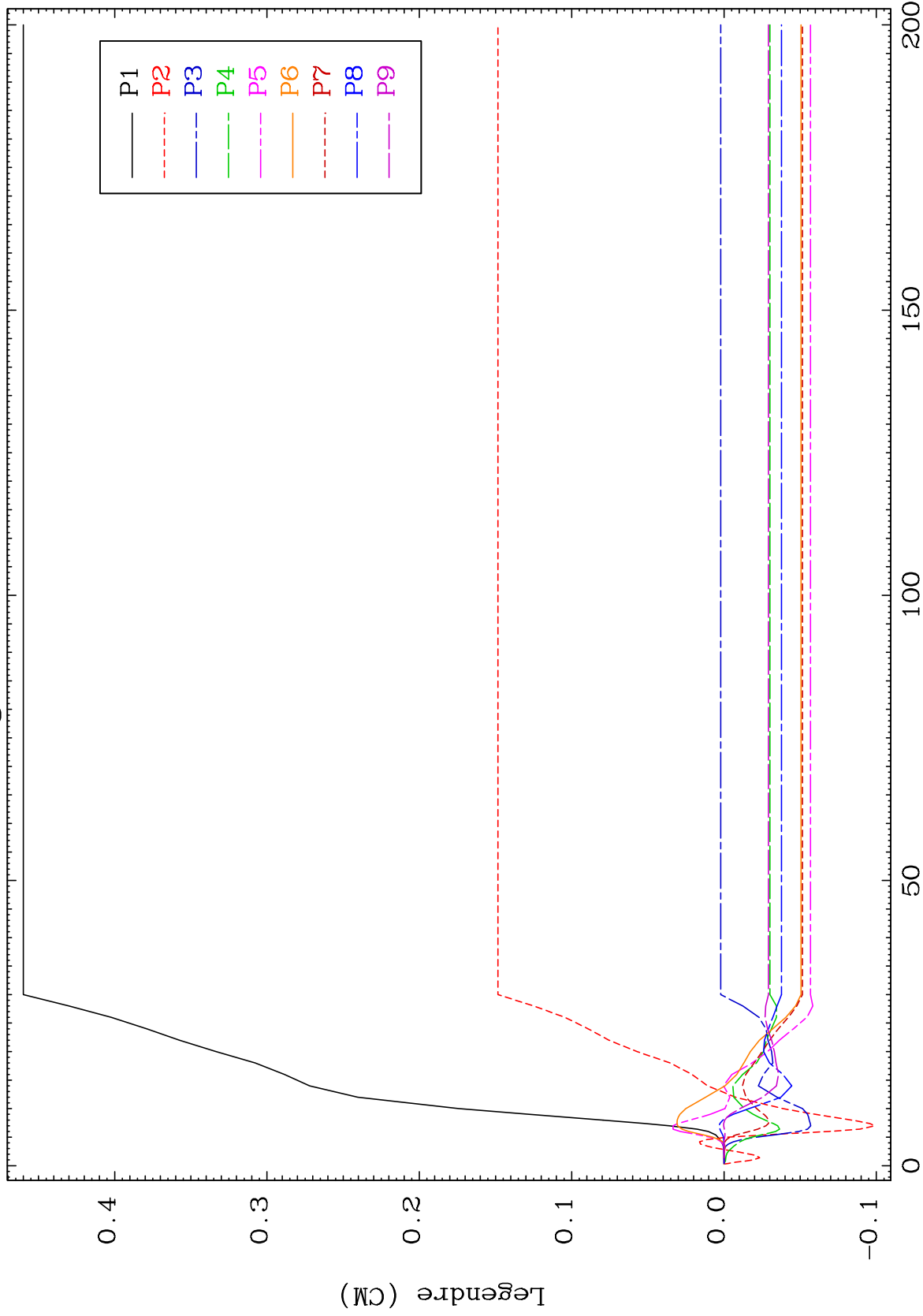
Incident Energy (MeV)

62-Sm-139

MAT 6210

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

62-Sm-139



27

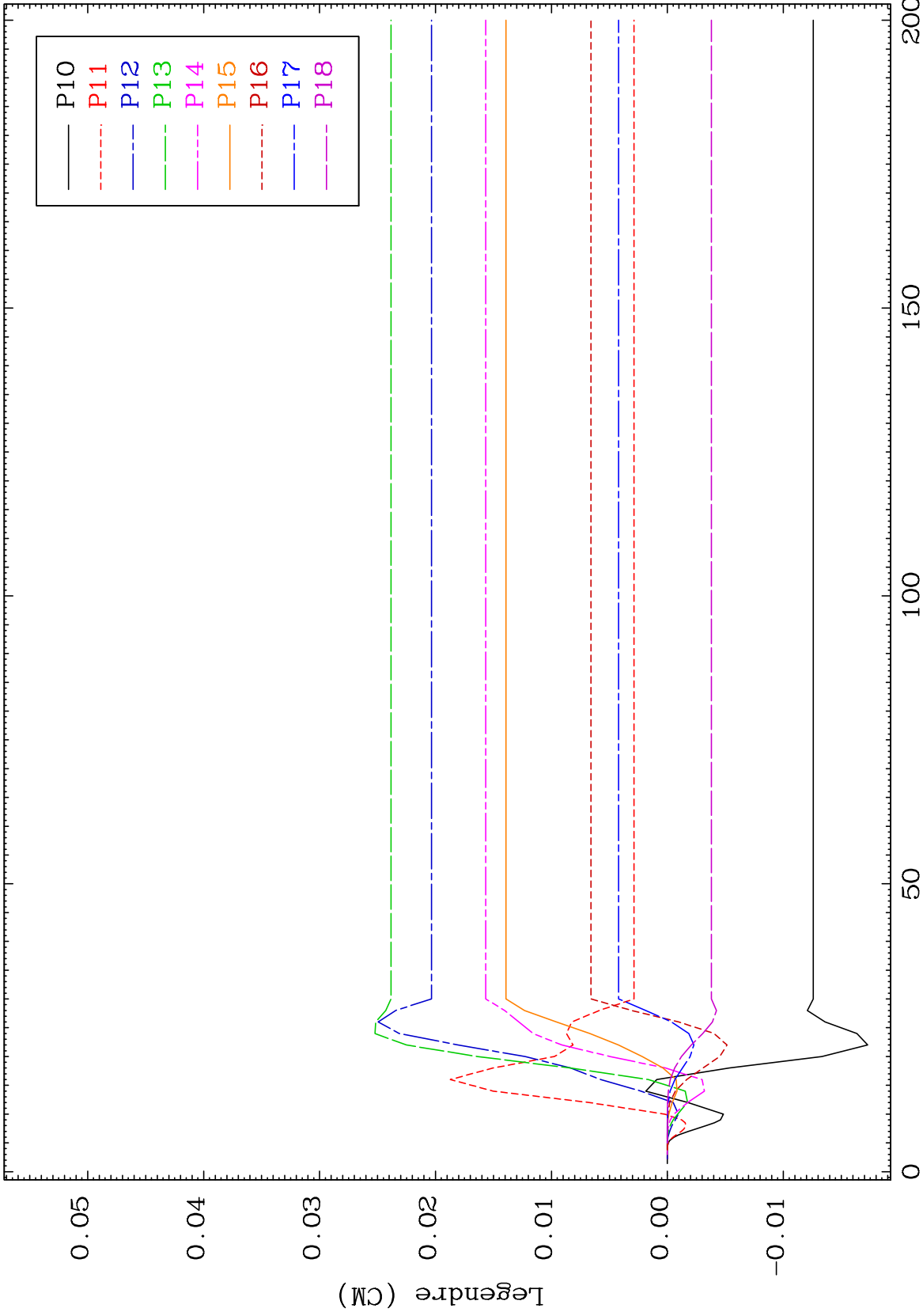
Incident Energy (MeV)

62-Sm-139

MAT 6210

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

62-Sm-139



28

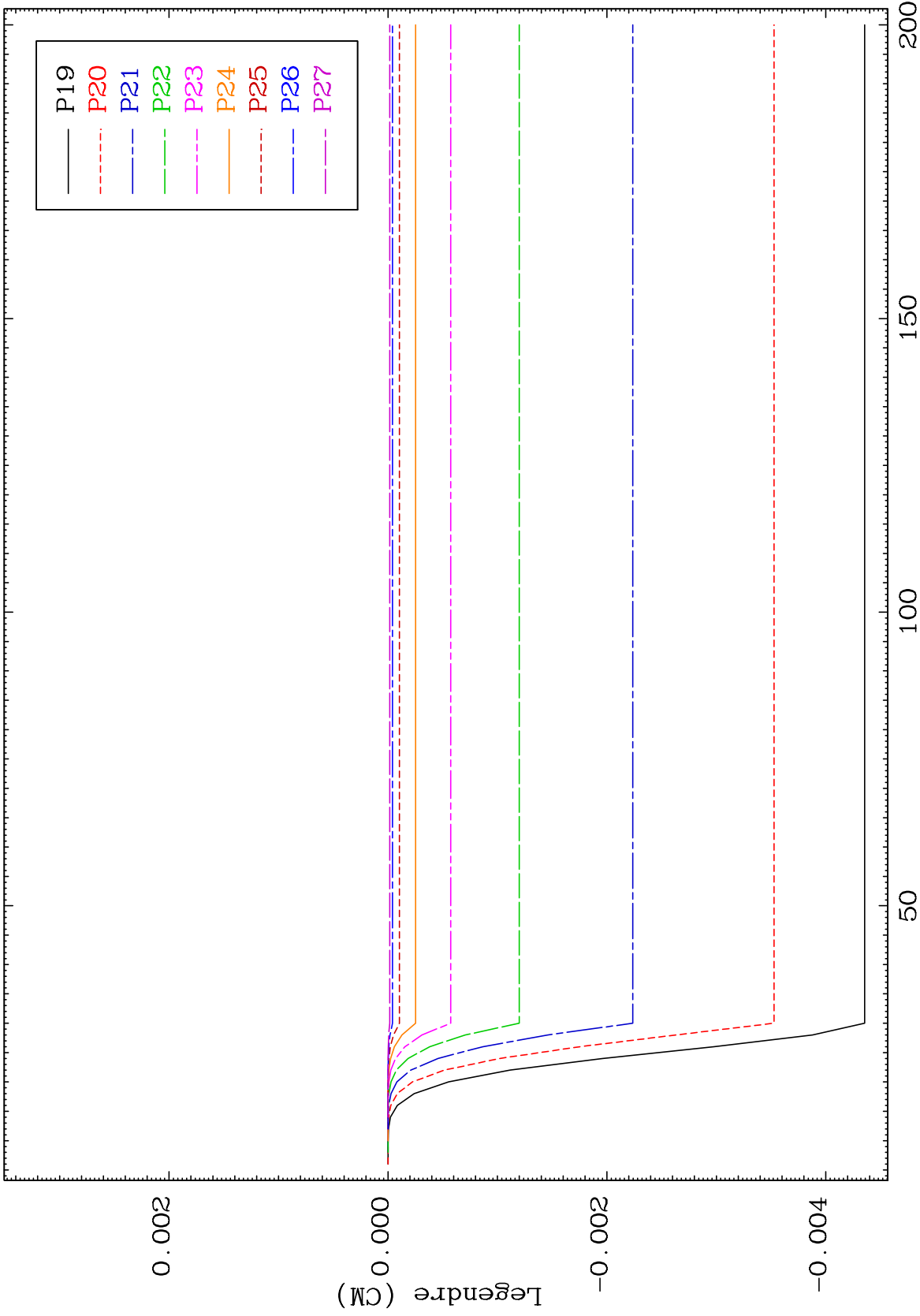
Incident Energy (MeV)

62-Sm-139

MAT 6210

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

62-Sm-139



29

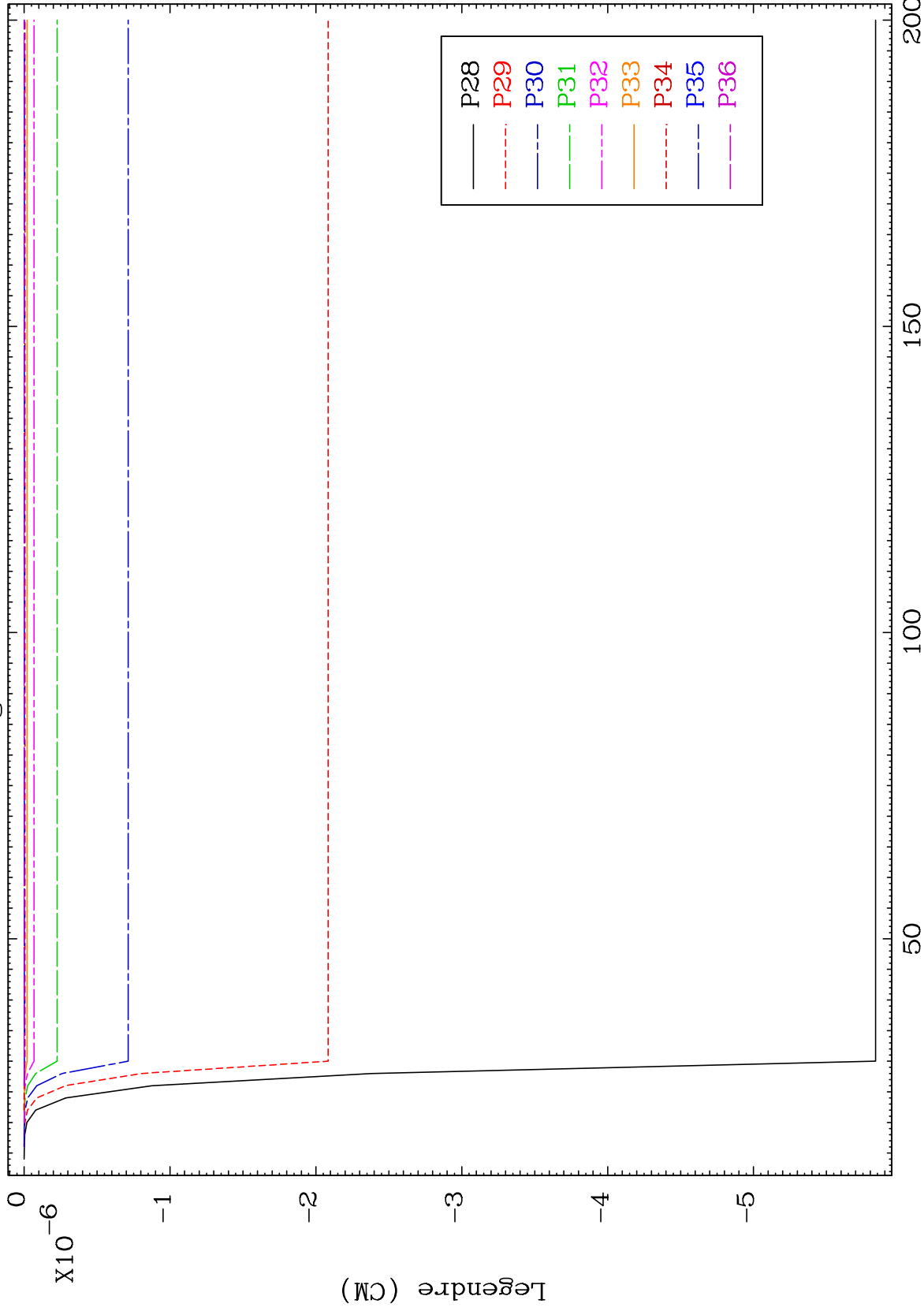
Incident Energy (MeV)

62-Sm-139

MAT 6210

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

62-Sm-139



62-Sm-139

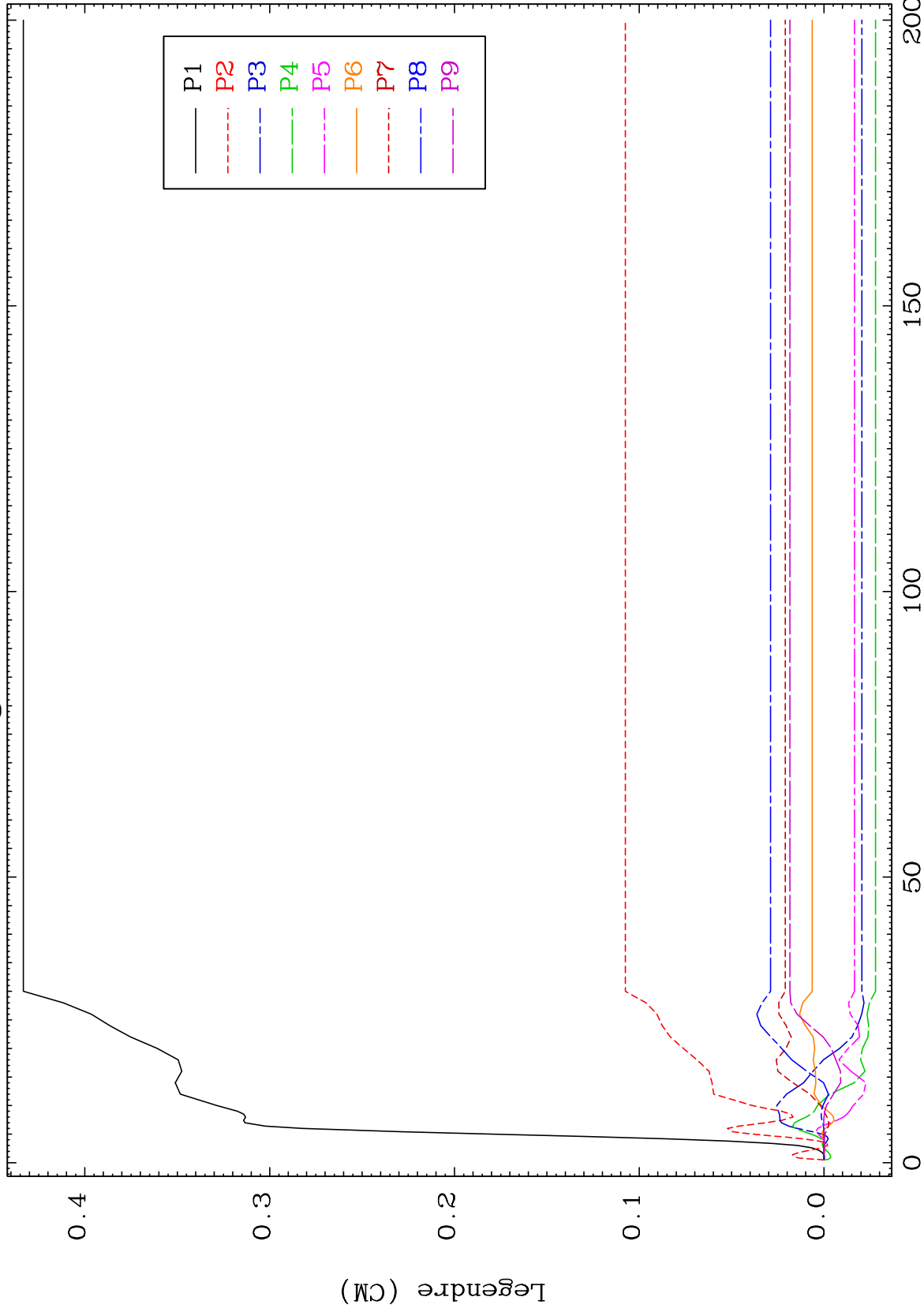
Incident Energy (MeV)

30

MAT 6210

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

62-Sm-139



31

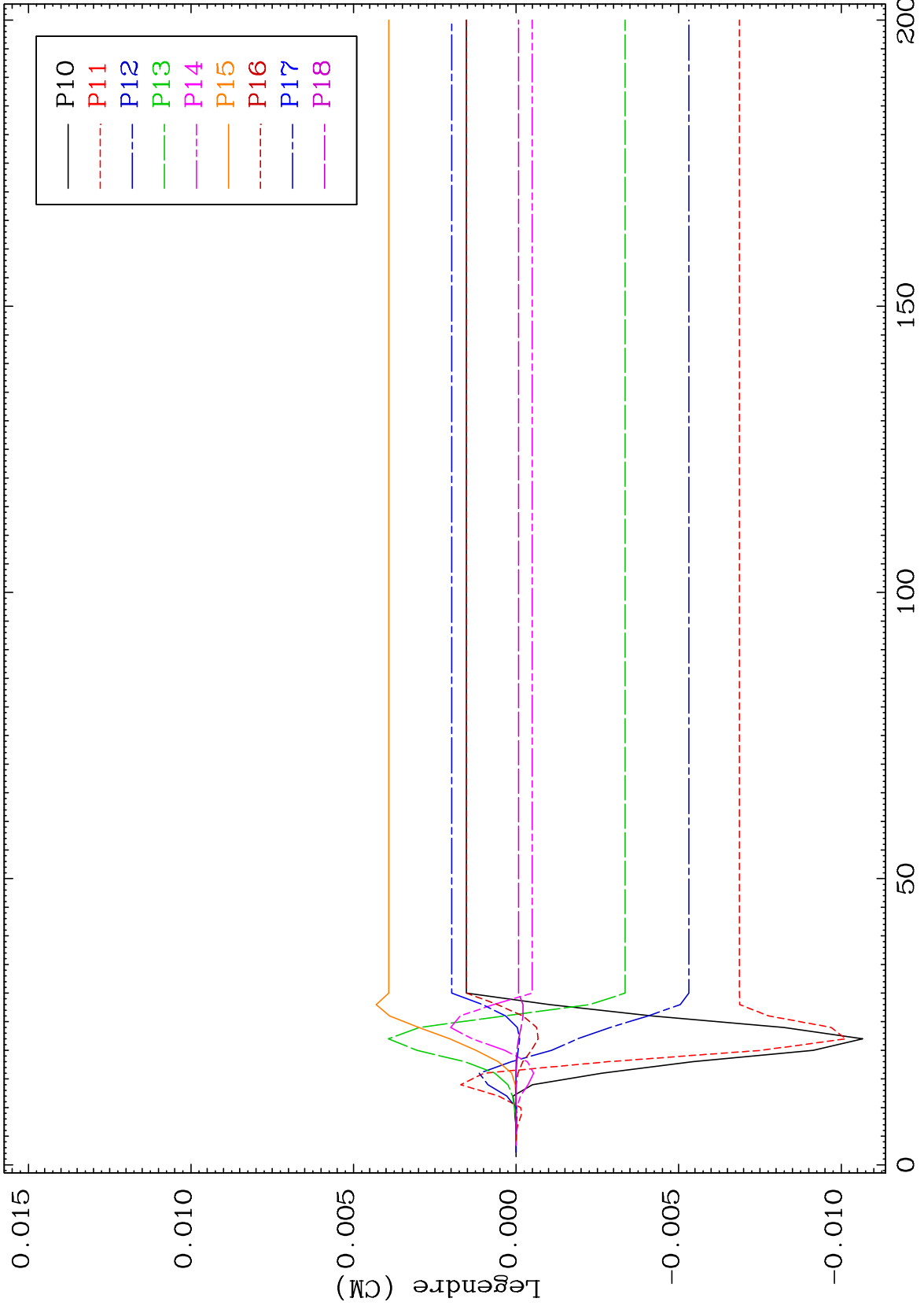
Incident Energy (MeV)

62-Sm-139

MAT 6210

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

62-Sm-139



32

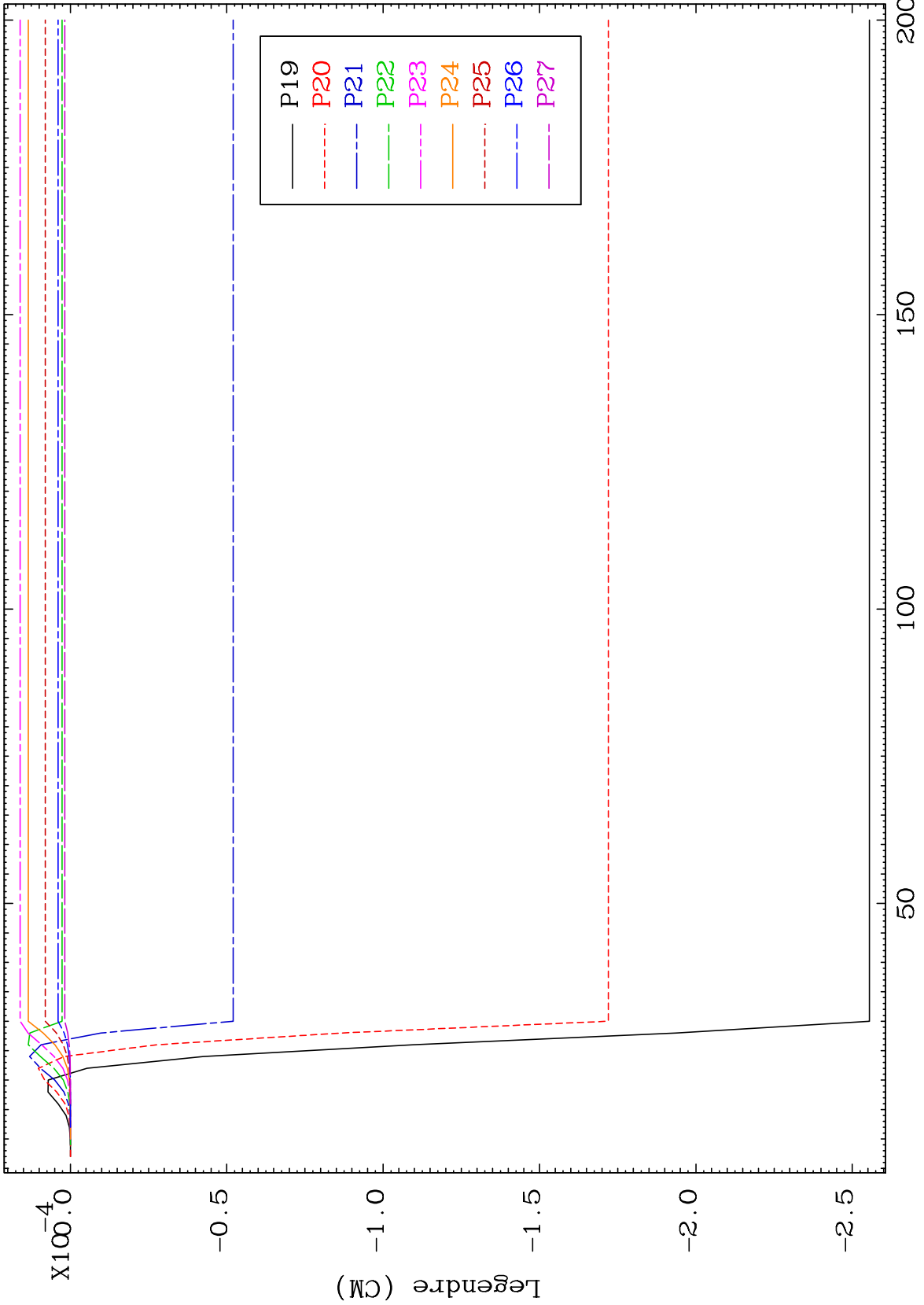
Incident Energy (MeV)

62-Sm-139

MAT 6210

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

62-Sm-139



33

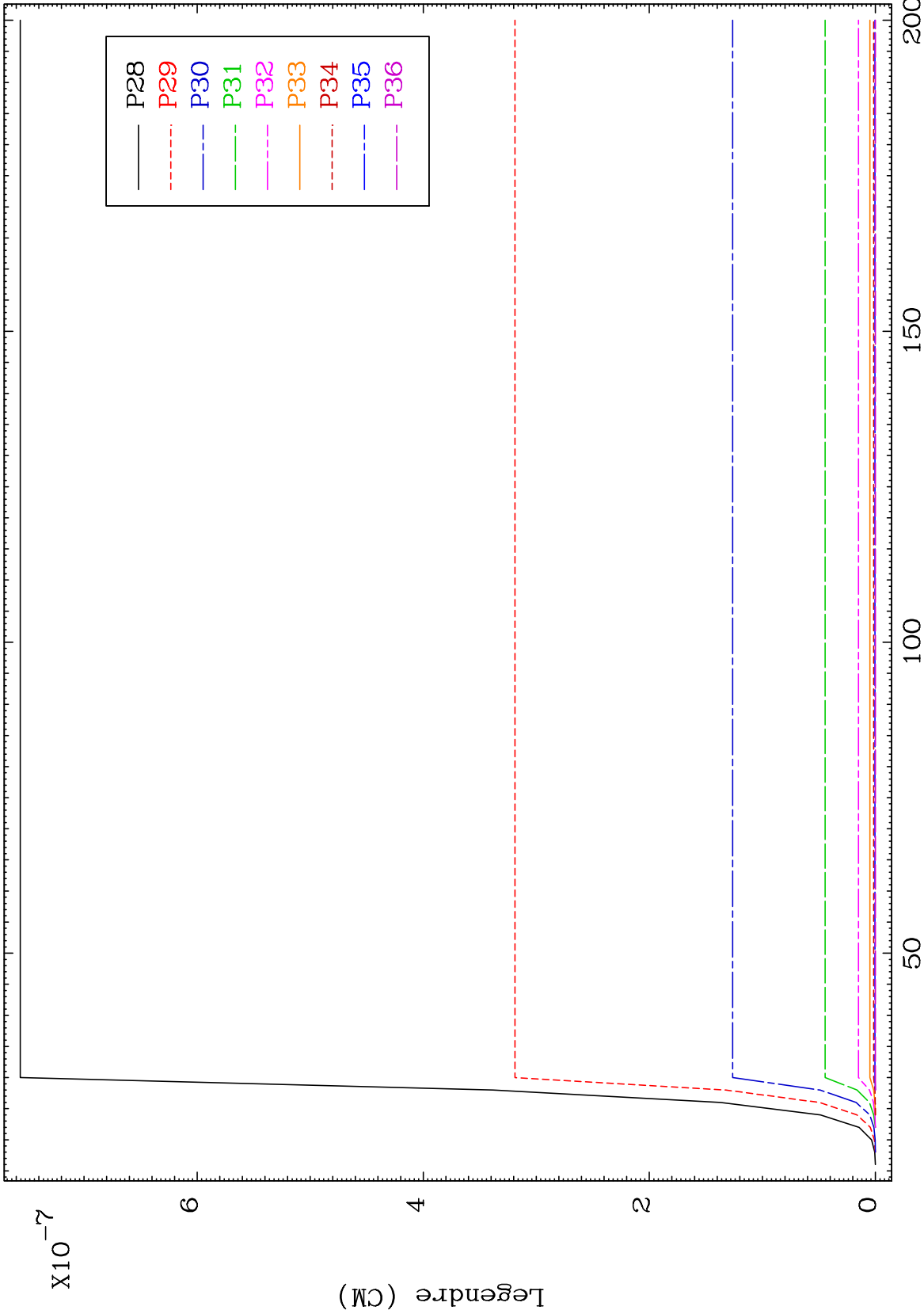
Incident Energy (MeV)

62-Sm-139

MAT 6210

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

62-Sm-139



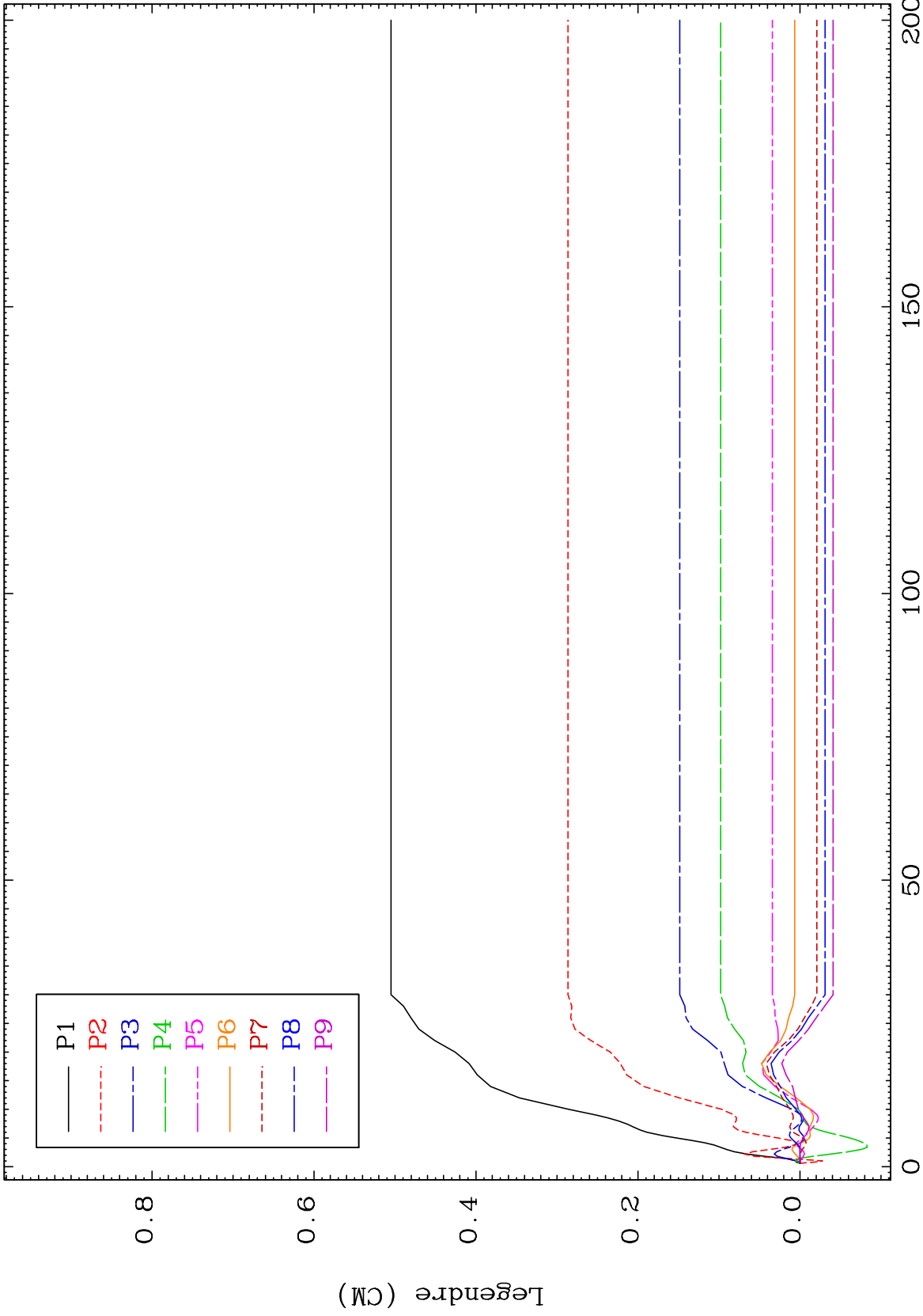
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62-Sm-139

MAT 6210

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

62-Sm-139



35

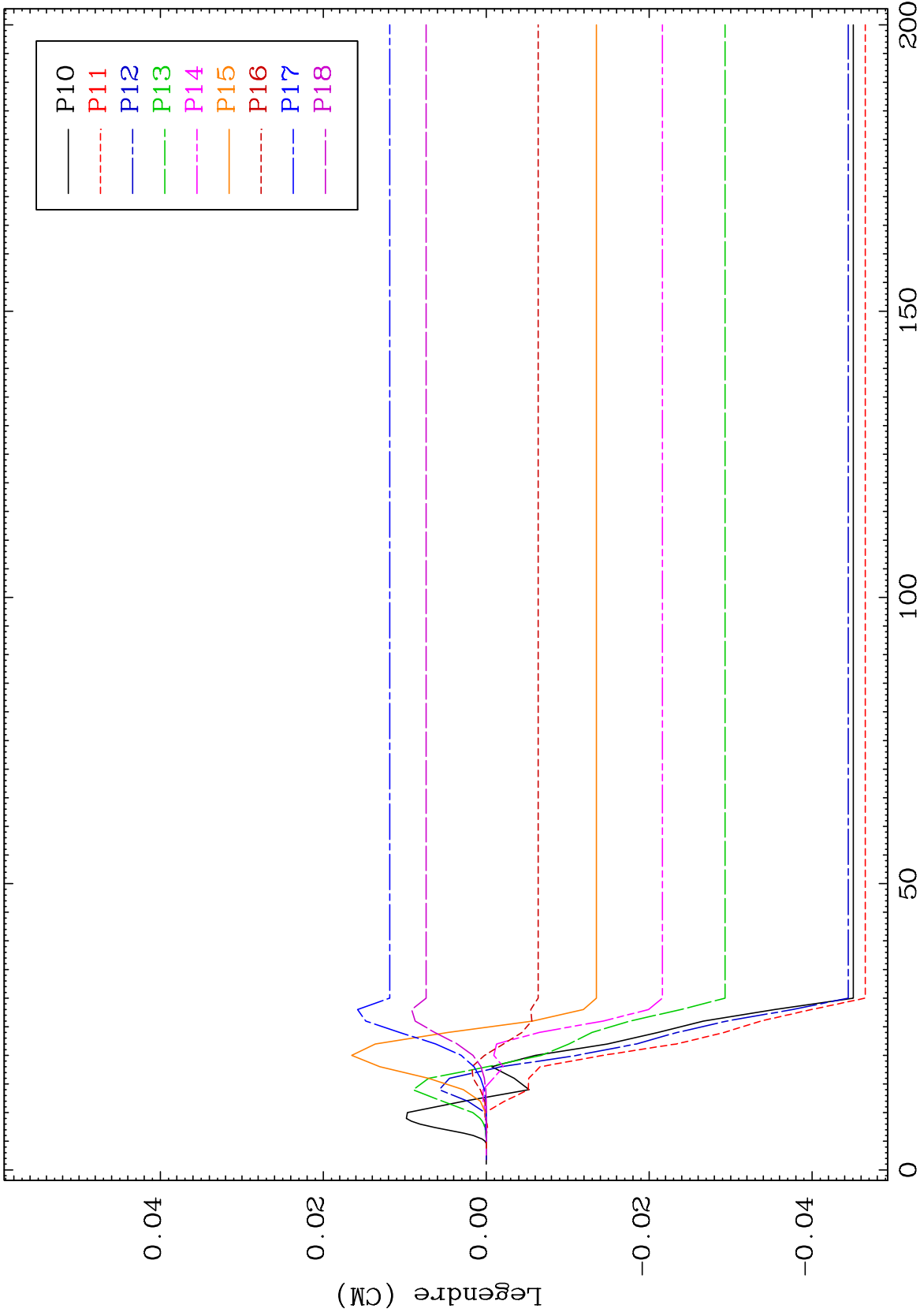
Incident Energy (MeV)

62-Sm-139

MAT 6210

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

62-Sm-139



36

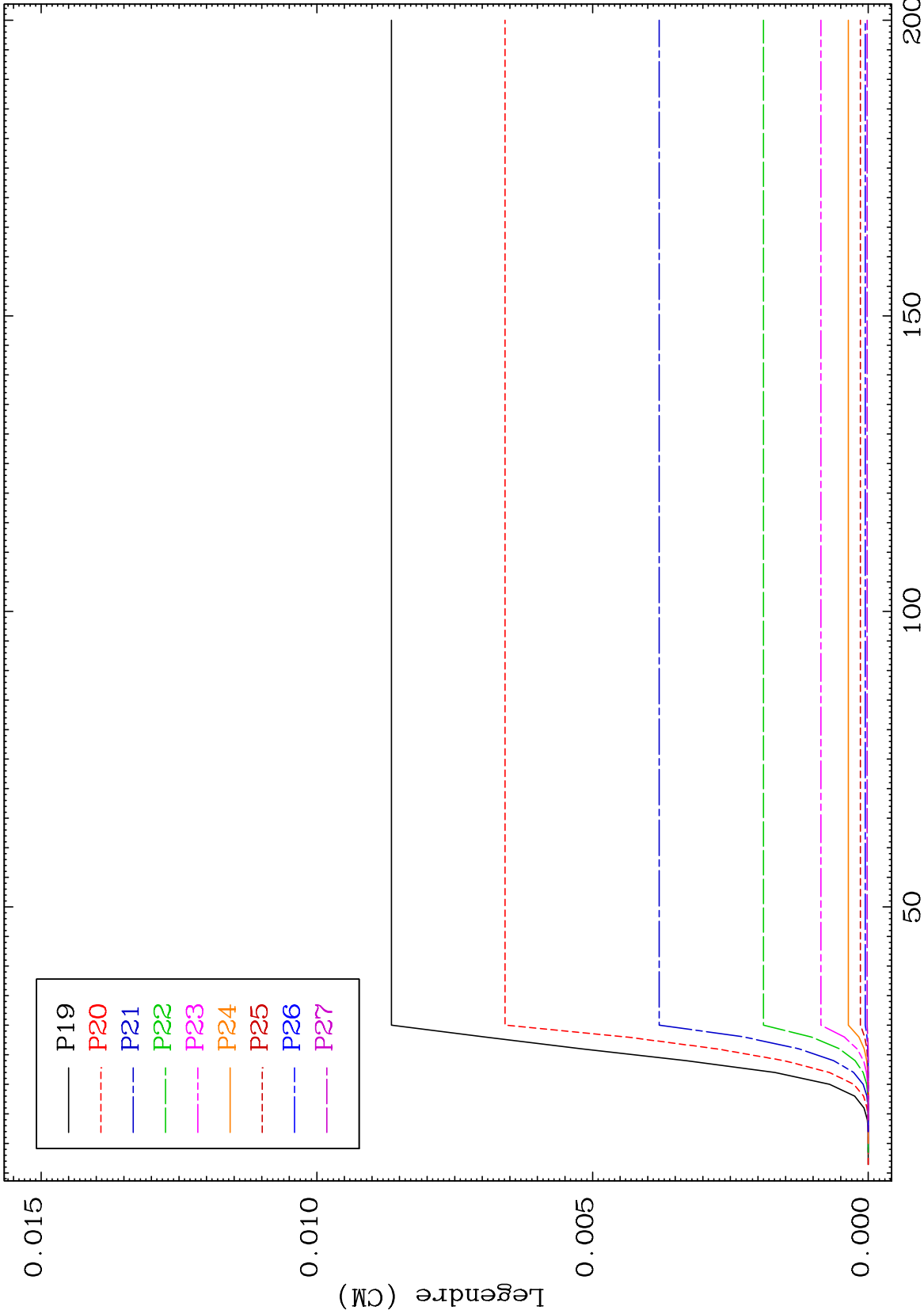
Incident Energy (MeV)

62-Sm-139

MAT 6210

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

62-Sm-139



37

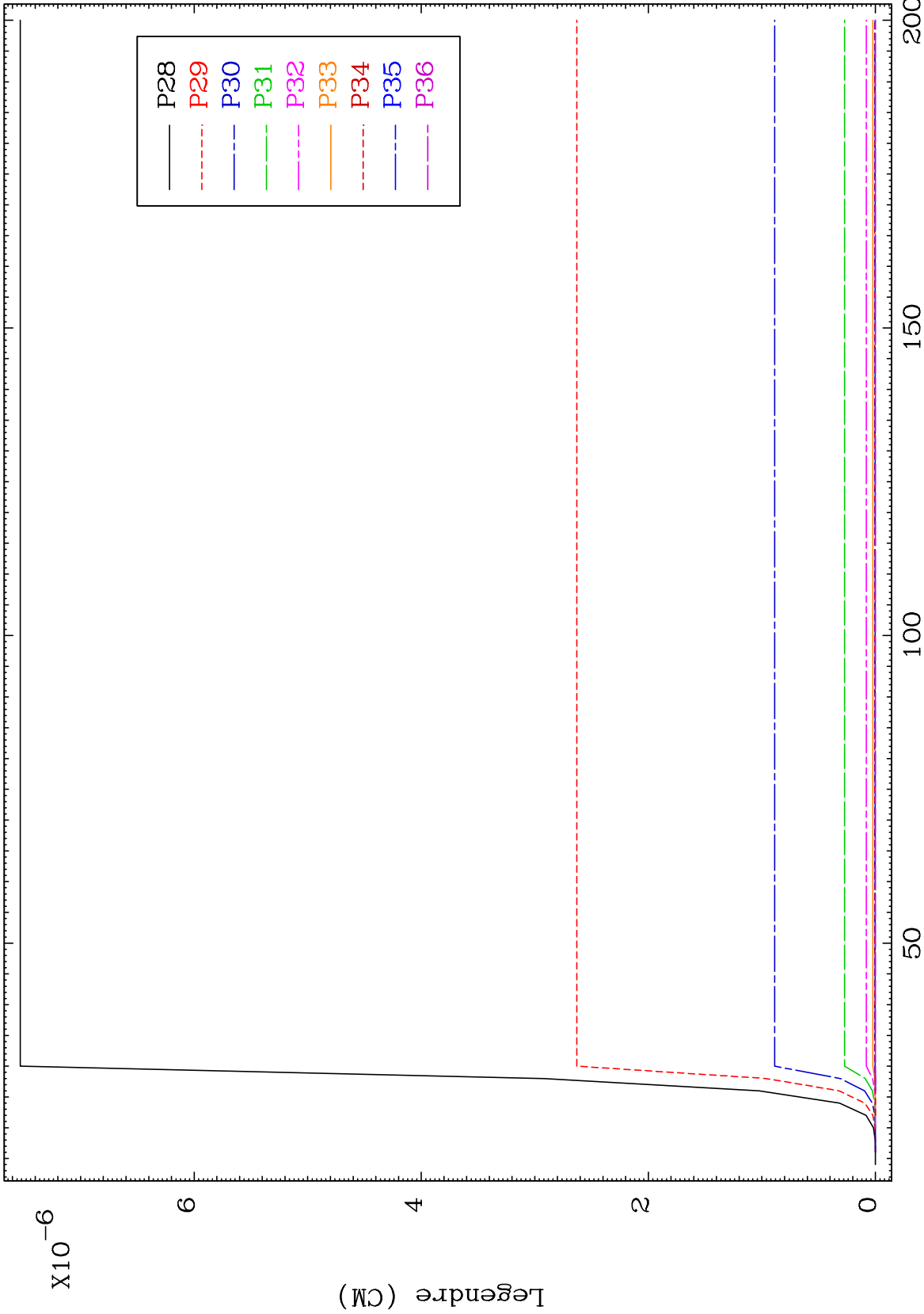
Incident Energy (MeV)

62-Sm-139

MAT 6210

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

62-Sm-139



38

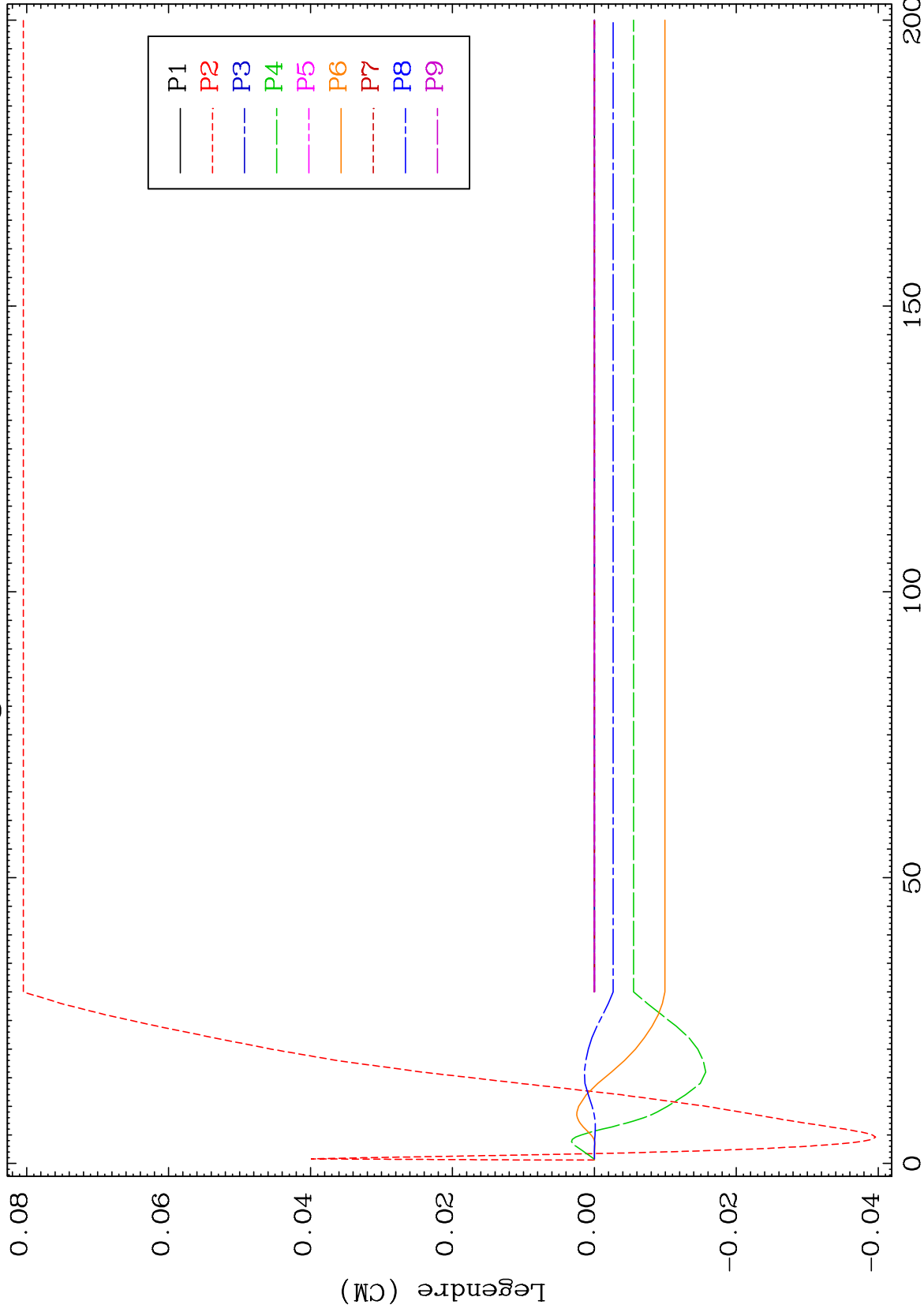
Incident Energy (MeV)

62-Sm-139

MAT 6210

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

62-Sm-139



39

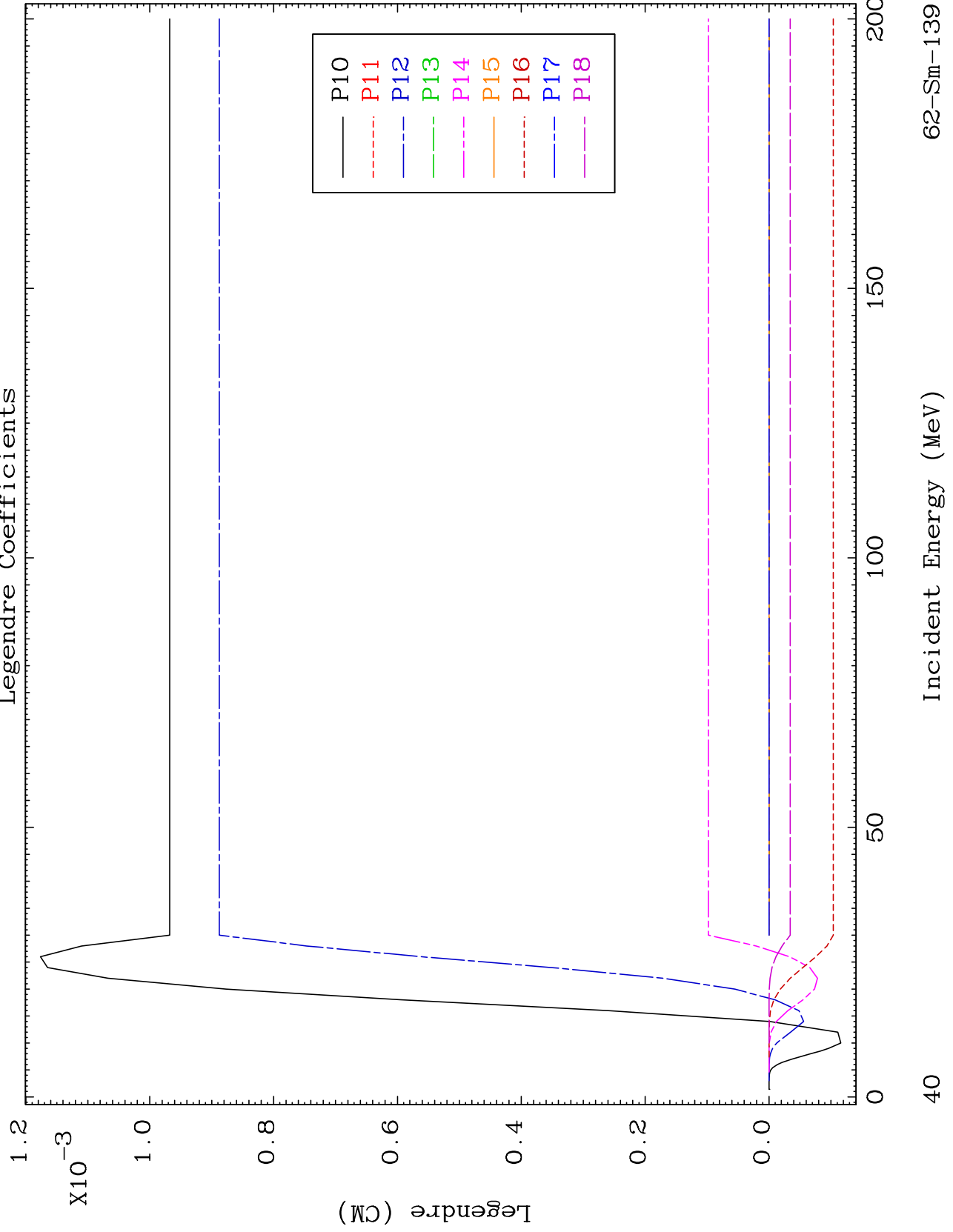
Incident Energy (MeV)

62-Sm-139

MAT 6210

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

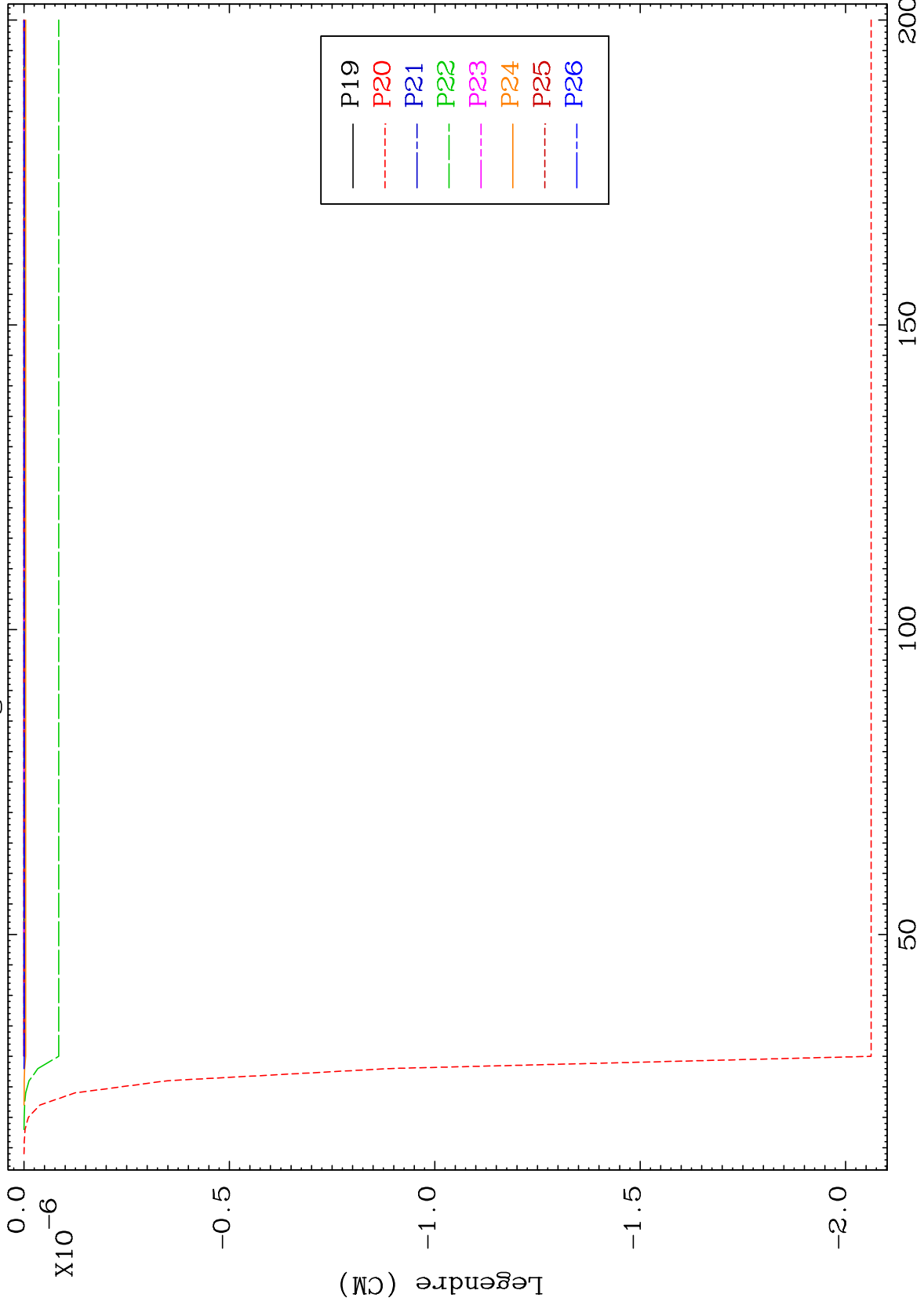
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MAT 6210

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

62-Sm-139



62-Sm-139

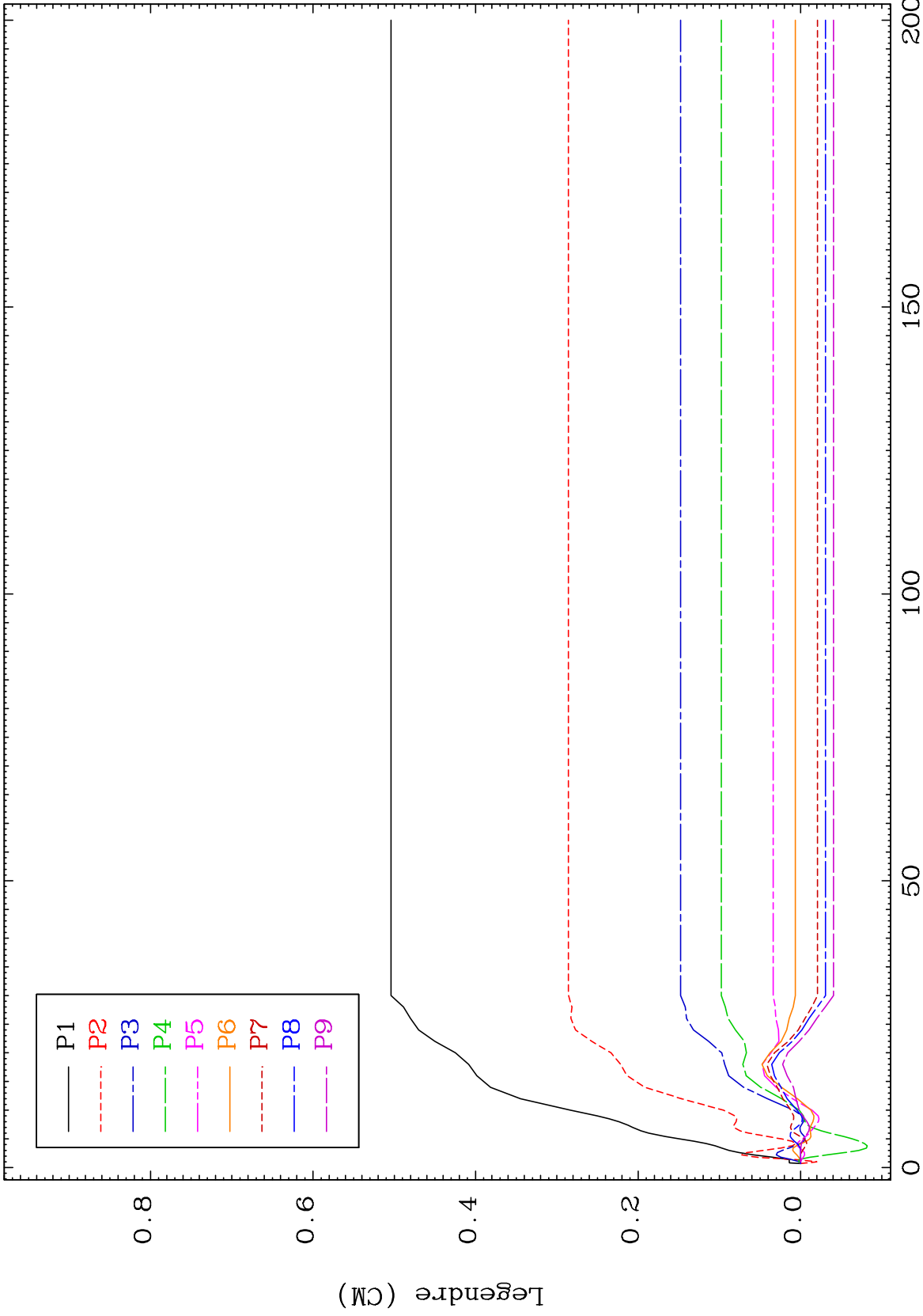
Incident Energy (MeV)

41

MAT 6210

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

62-Sm-139



42

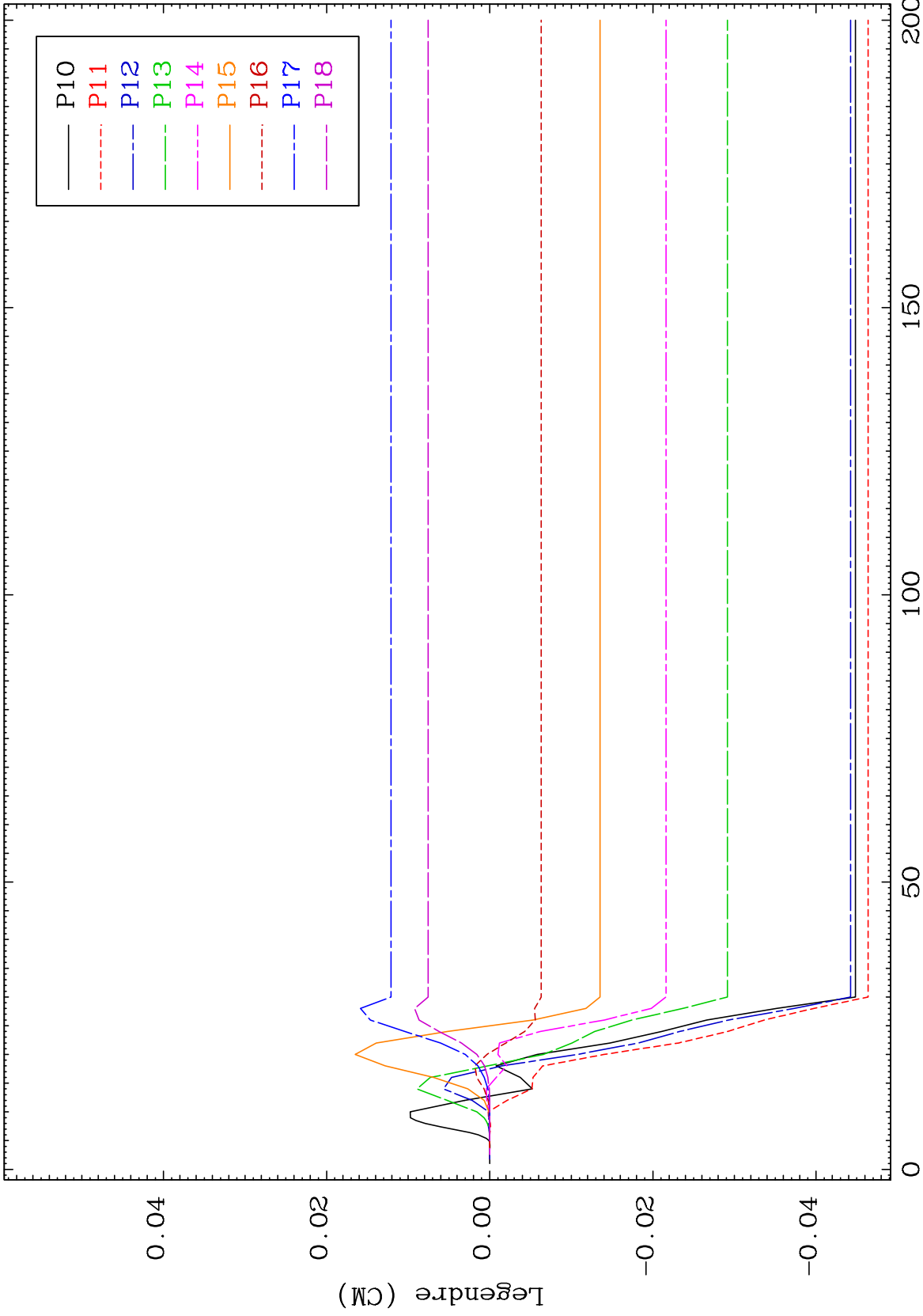
Incident Energy (MeV)

62-Sm-139

MAT 6210

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

62-Sm-139



43

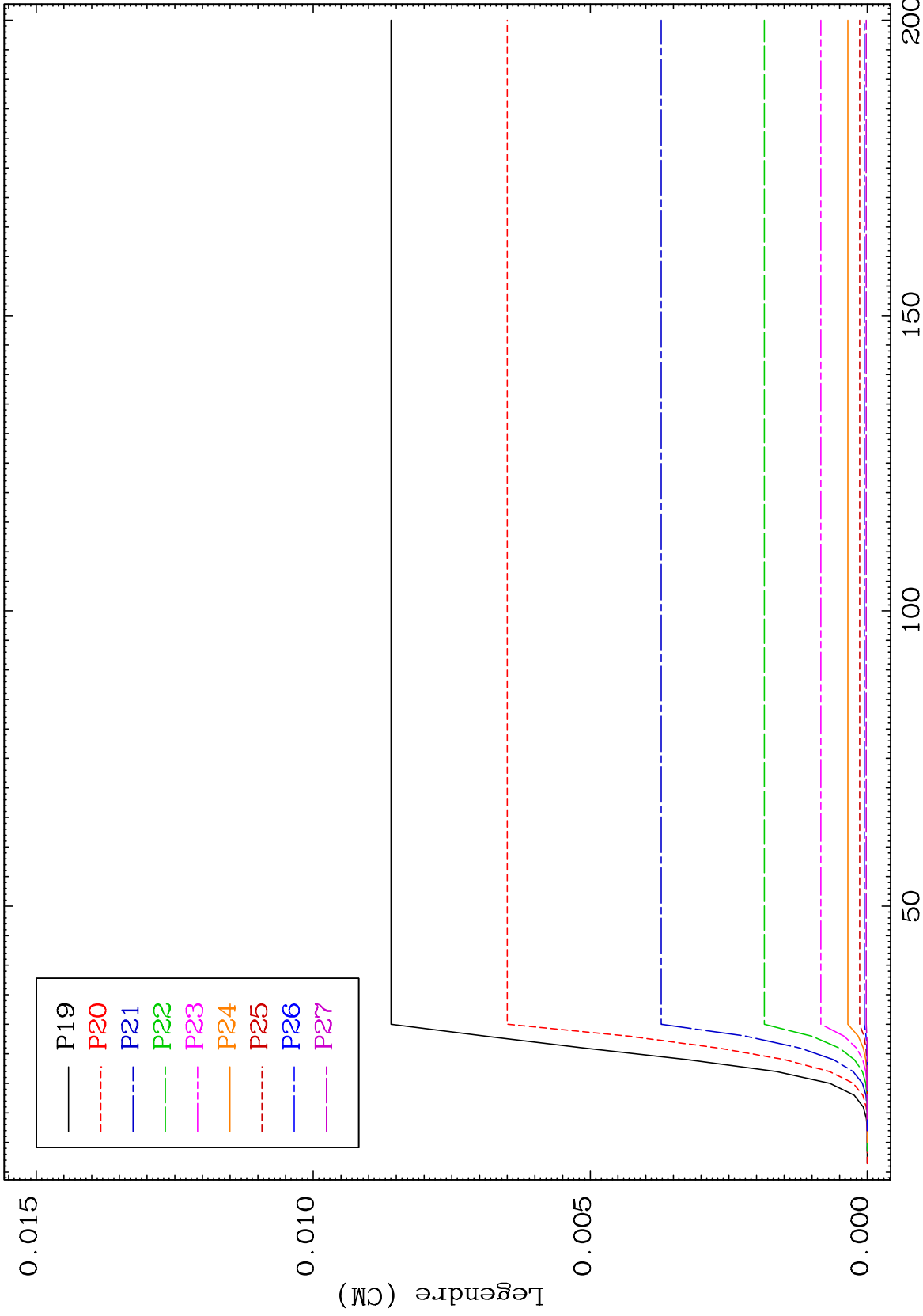
Incident Energy (MeV)

62-Sm-139

MAT 6210

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

62-Sm-139



44

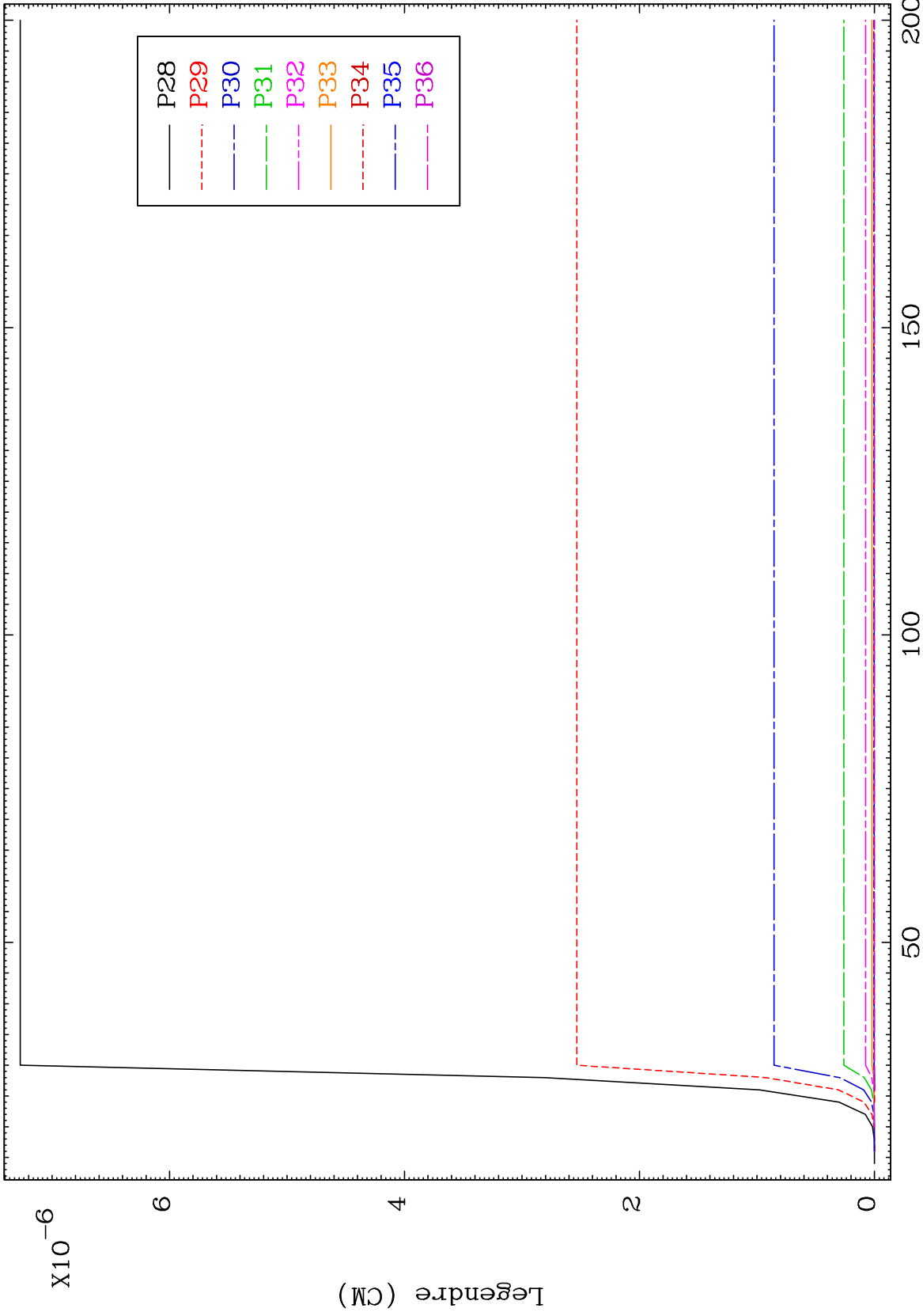
Incident Energy (MeV)

62-Sm-139

MAT 6210

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

62-Sm-139



45

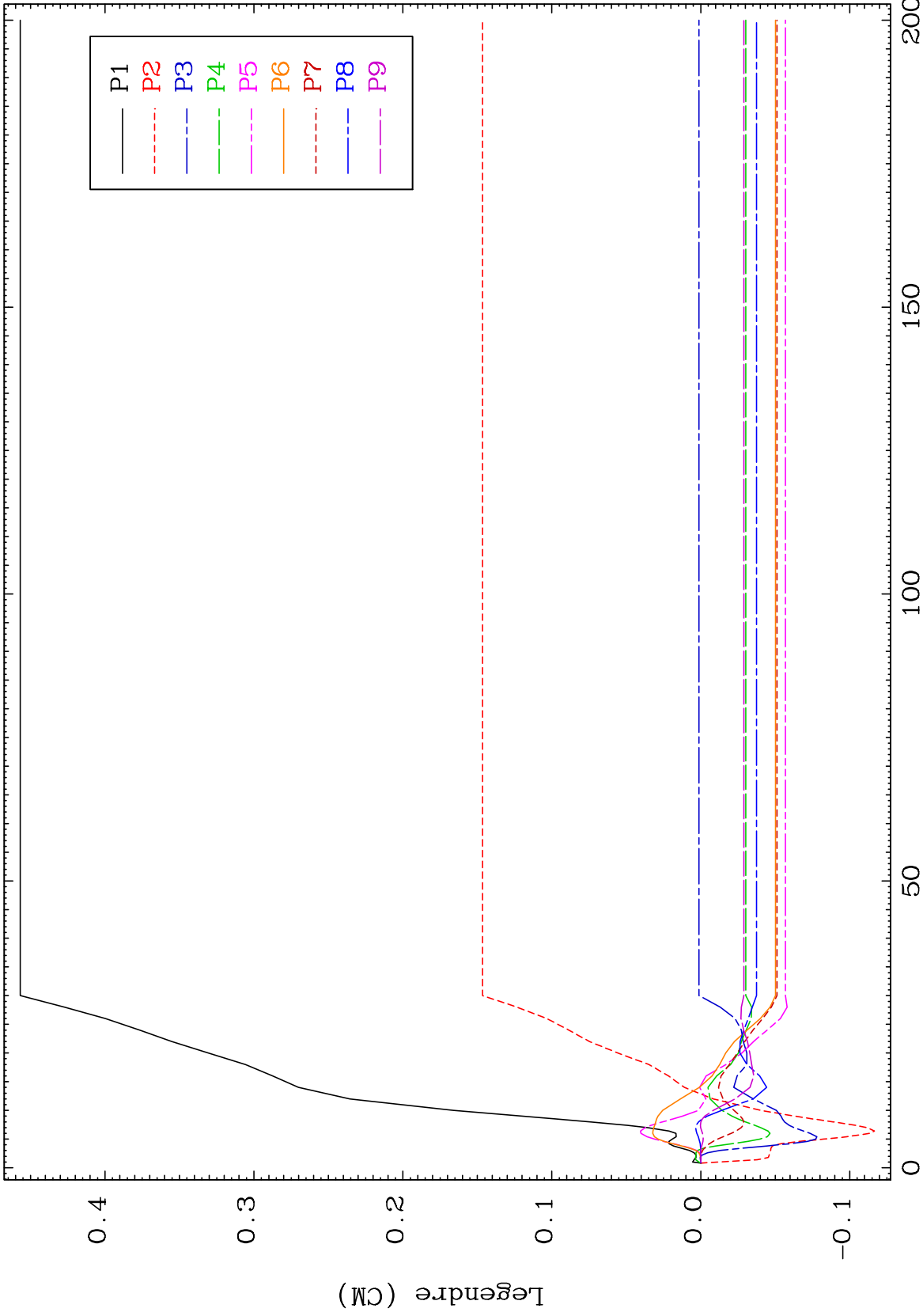
Incident Energy (MeV)

62-Sm-139

MAT 6210

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

62-Sm-139



46

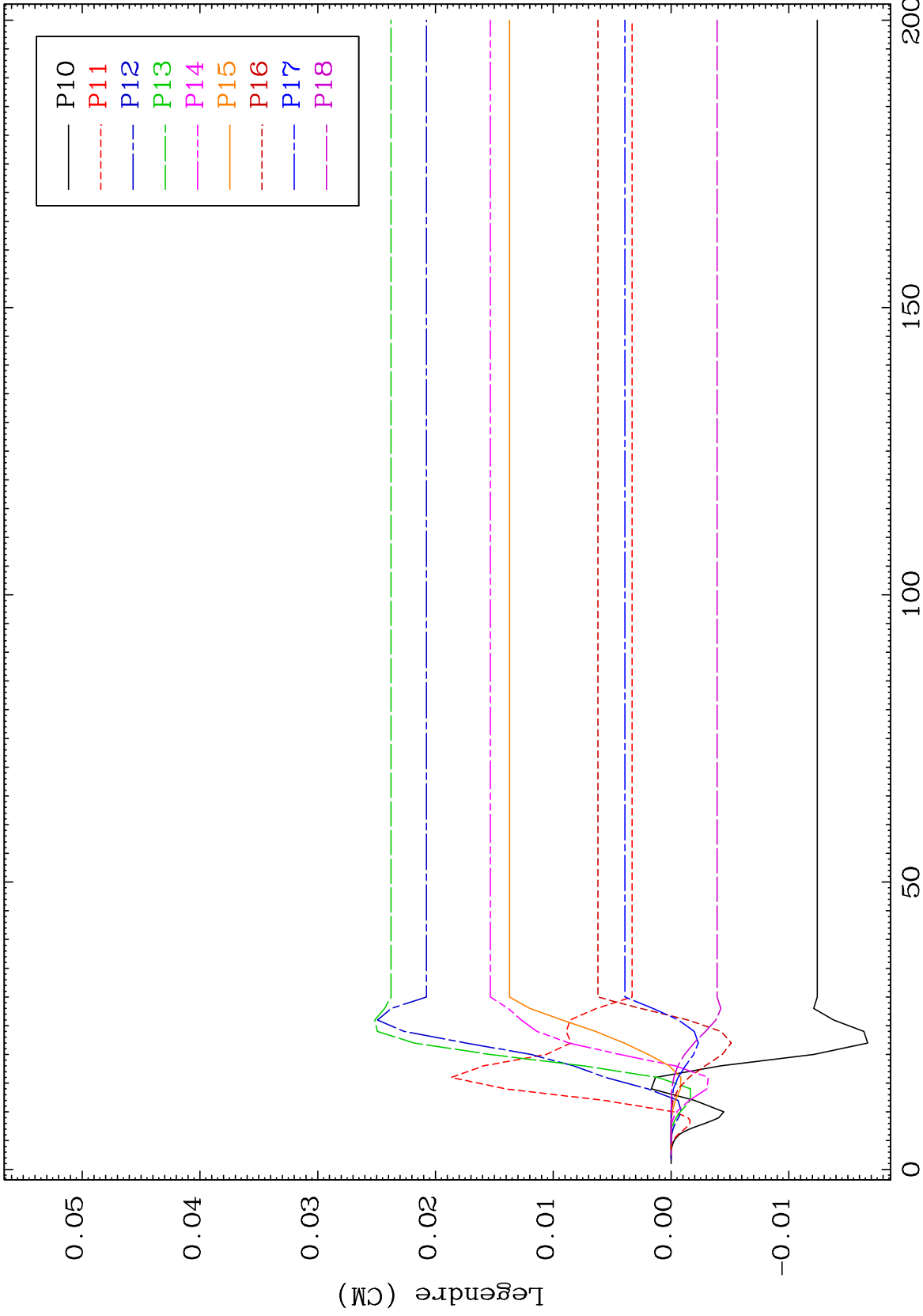
Incident Energy (MeV)

62-Sm-139

MAT 6210

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

62-Sm-139



47

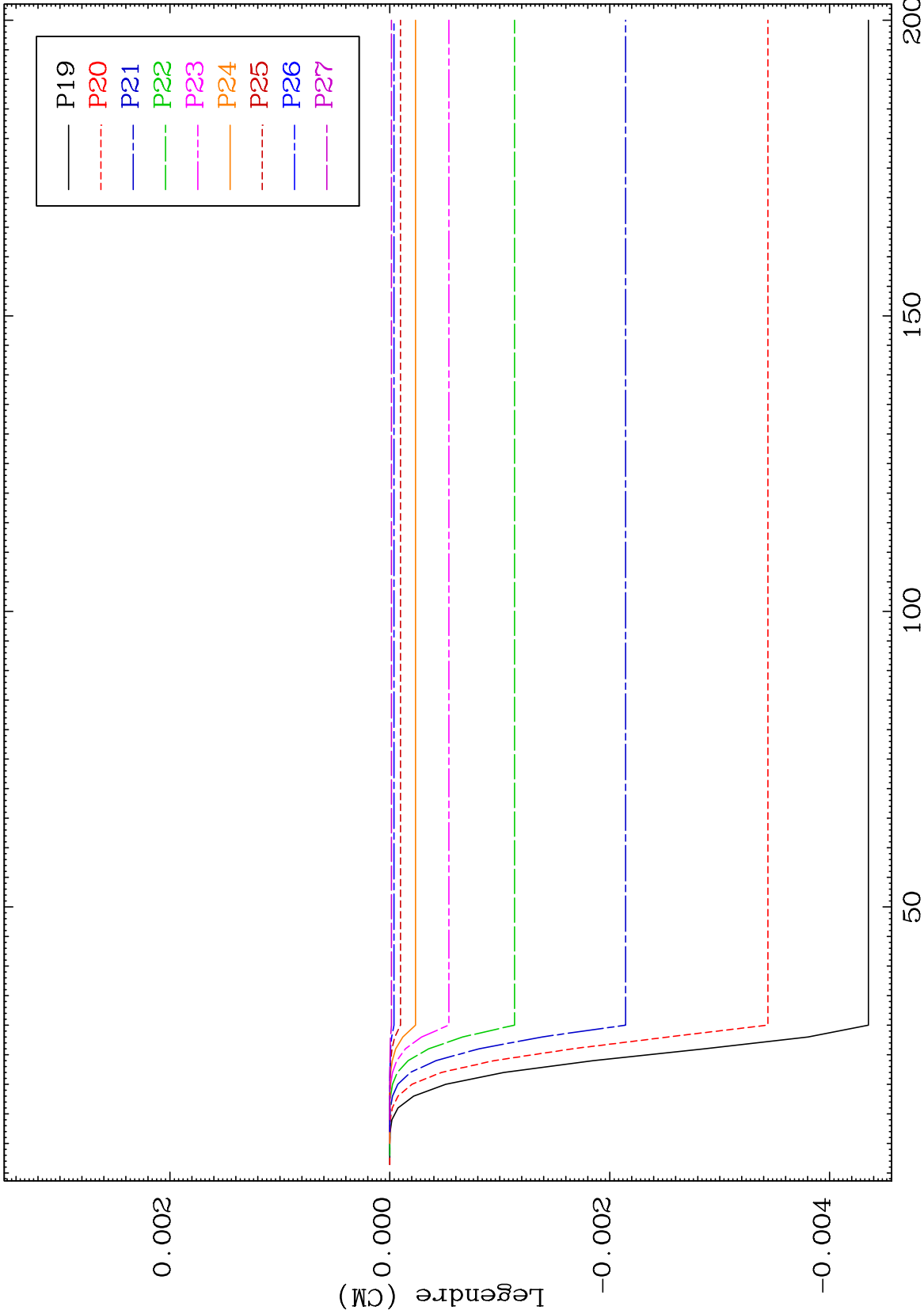
Incident Energy (MeV)

62-Sm-139

MAT 6210

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

62-Sm-139

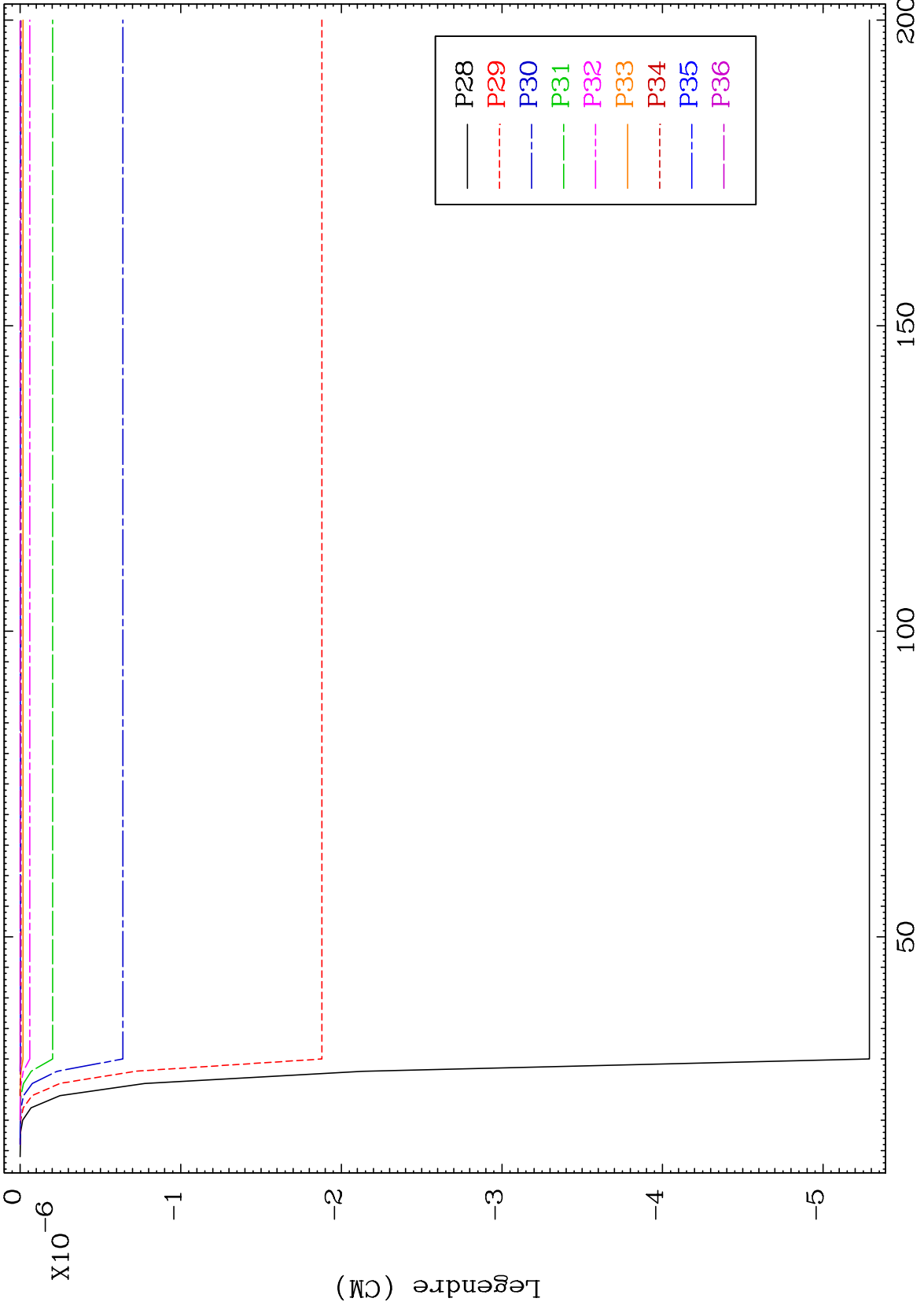


48

Incident Energy (MeV)

62-Sm-139

MAT 6210 MT= 58 (n,n') Level Legendre Coefficients 62-Sm-139

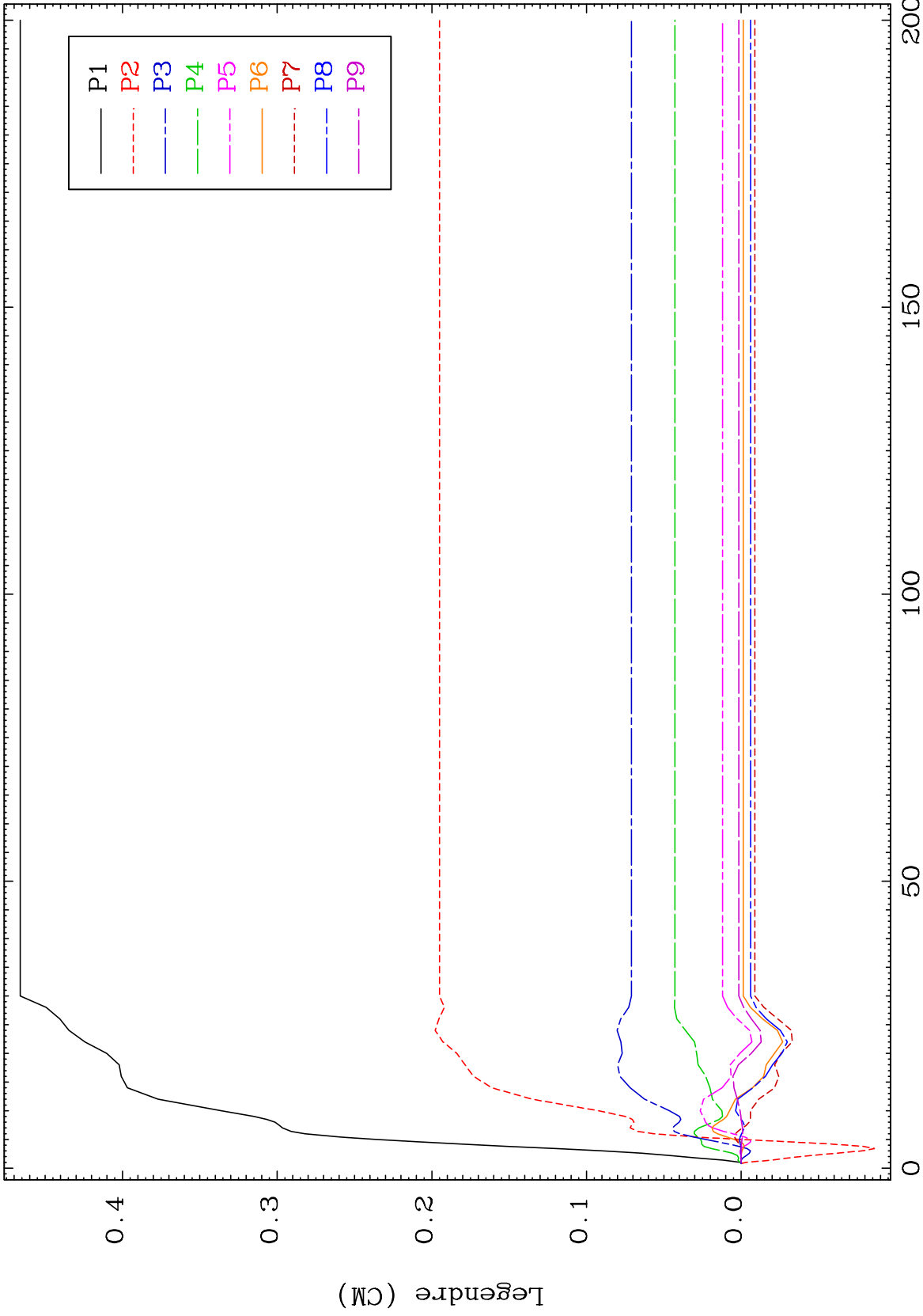


49 Incident Energy (MeV) 62-Sm-139

MAT 6210

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

62-Sm-139



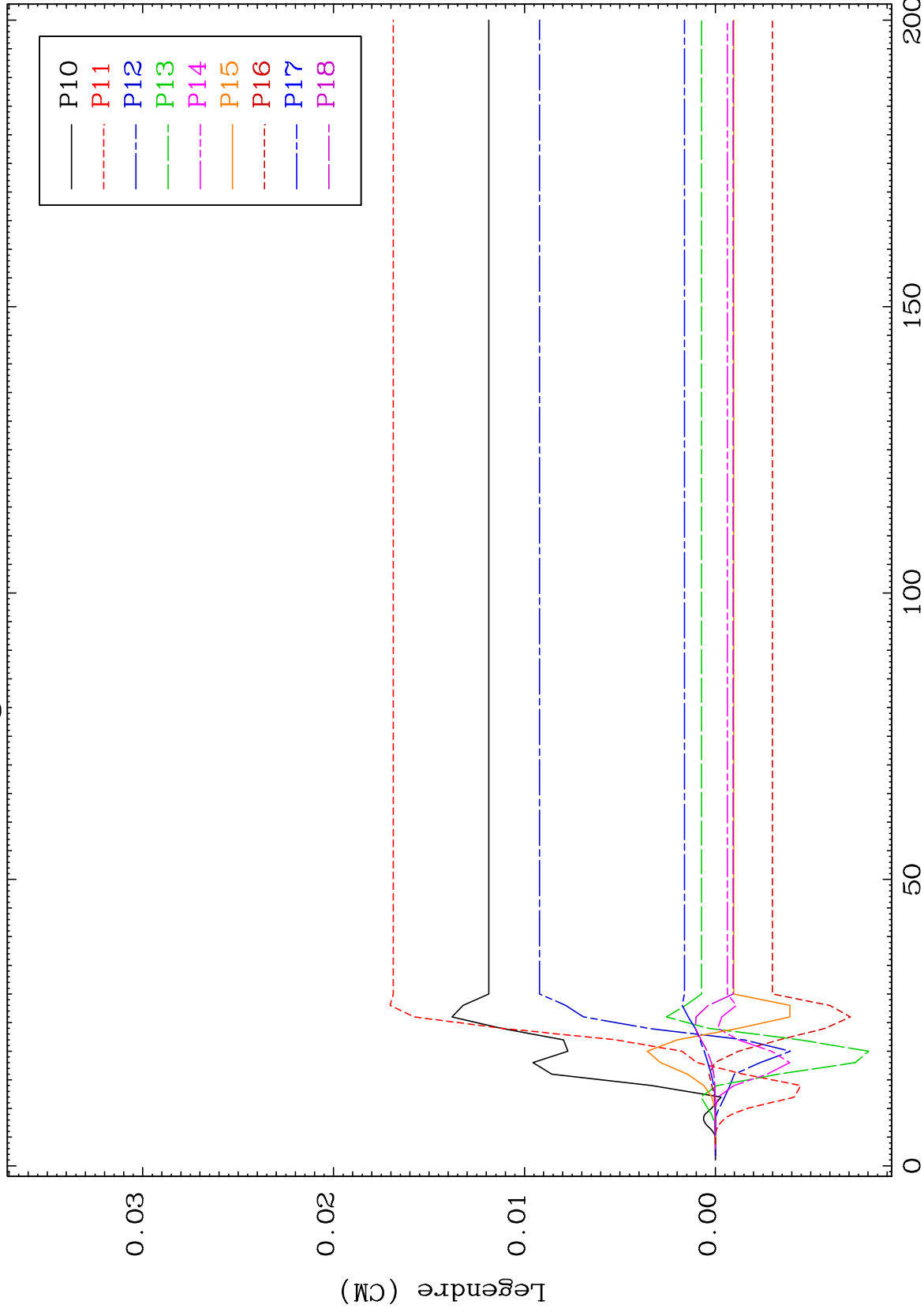
62-Sm-139

Incident Energy (MeV)

MAT 6210

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

62-Sm-139



51

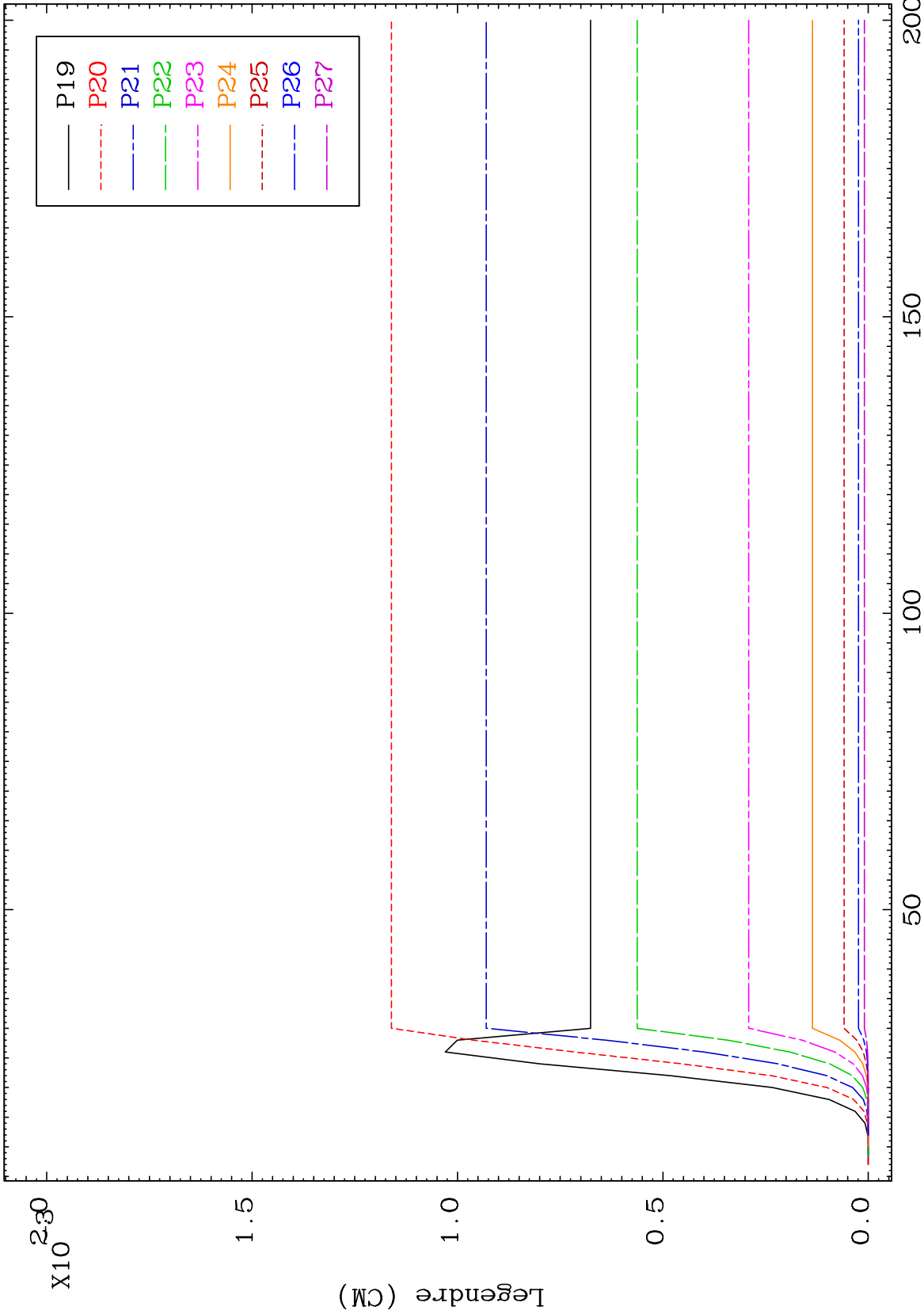
Incident Energy (MeV)

62-Sm-139

MAT 6210

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

62-Sm-139



52

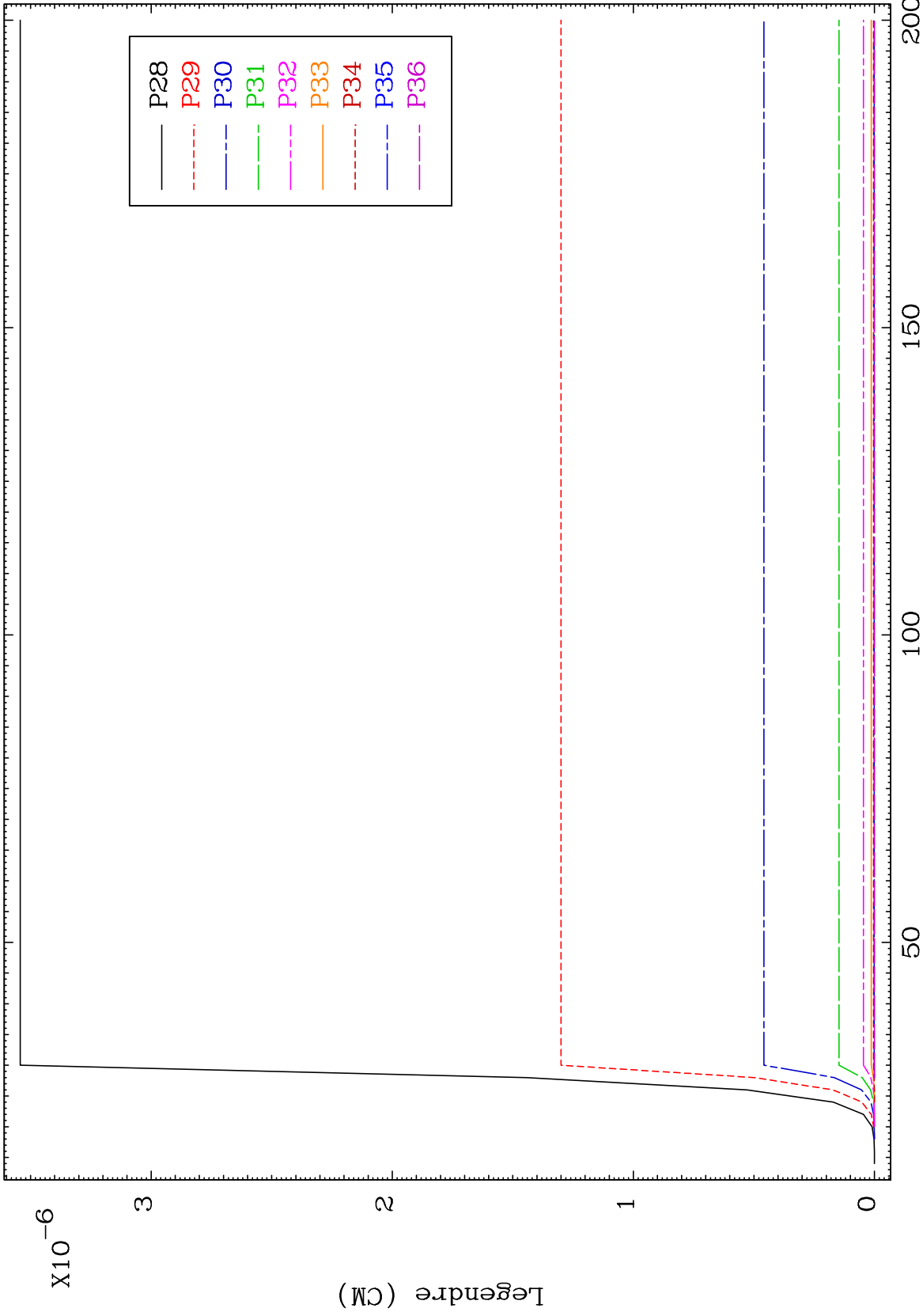
Incident Energy (MeV)

62-Sm-139

MAT 6210

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

62-Sm-139

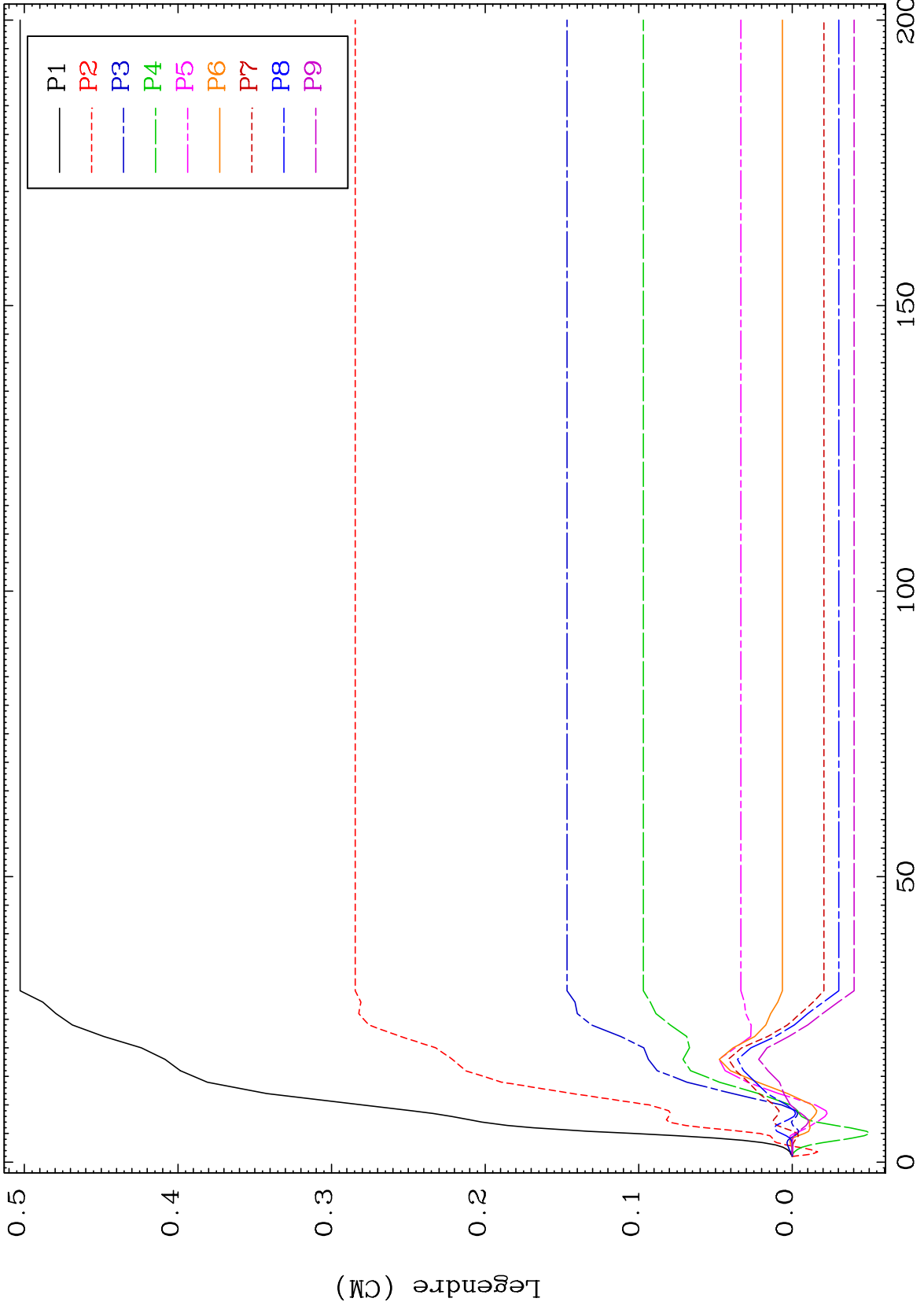


53

Incident Energy (MeV)

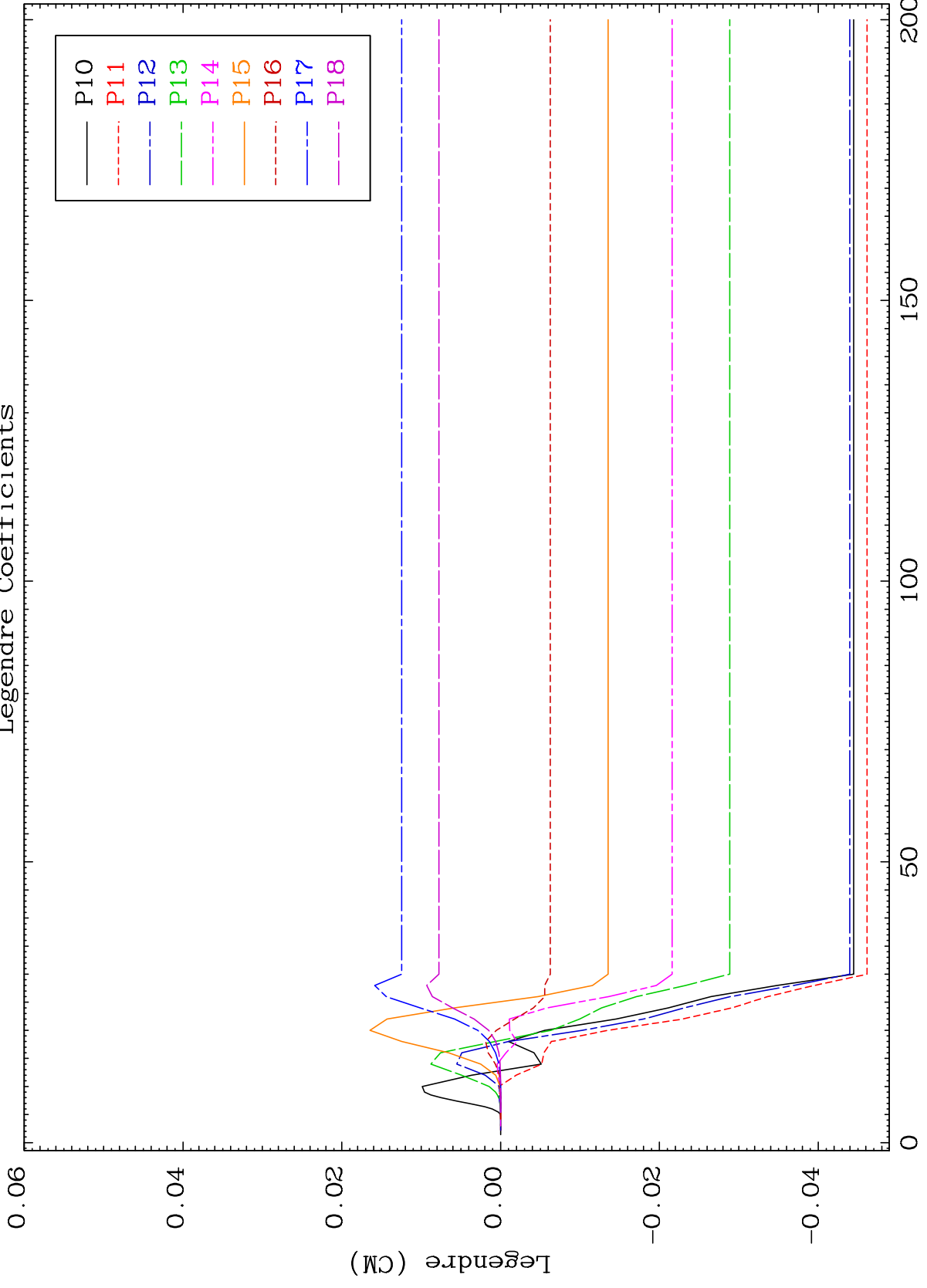
62-Sm-139

MAT 6210 MT= 60 (n,n') Level Legendre Coefficients 62-Sm-139



54 62-Sm-139

MAT 6210 MT= 60 (n,n') Level Legendre Coefficients 62-Sm-139

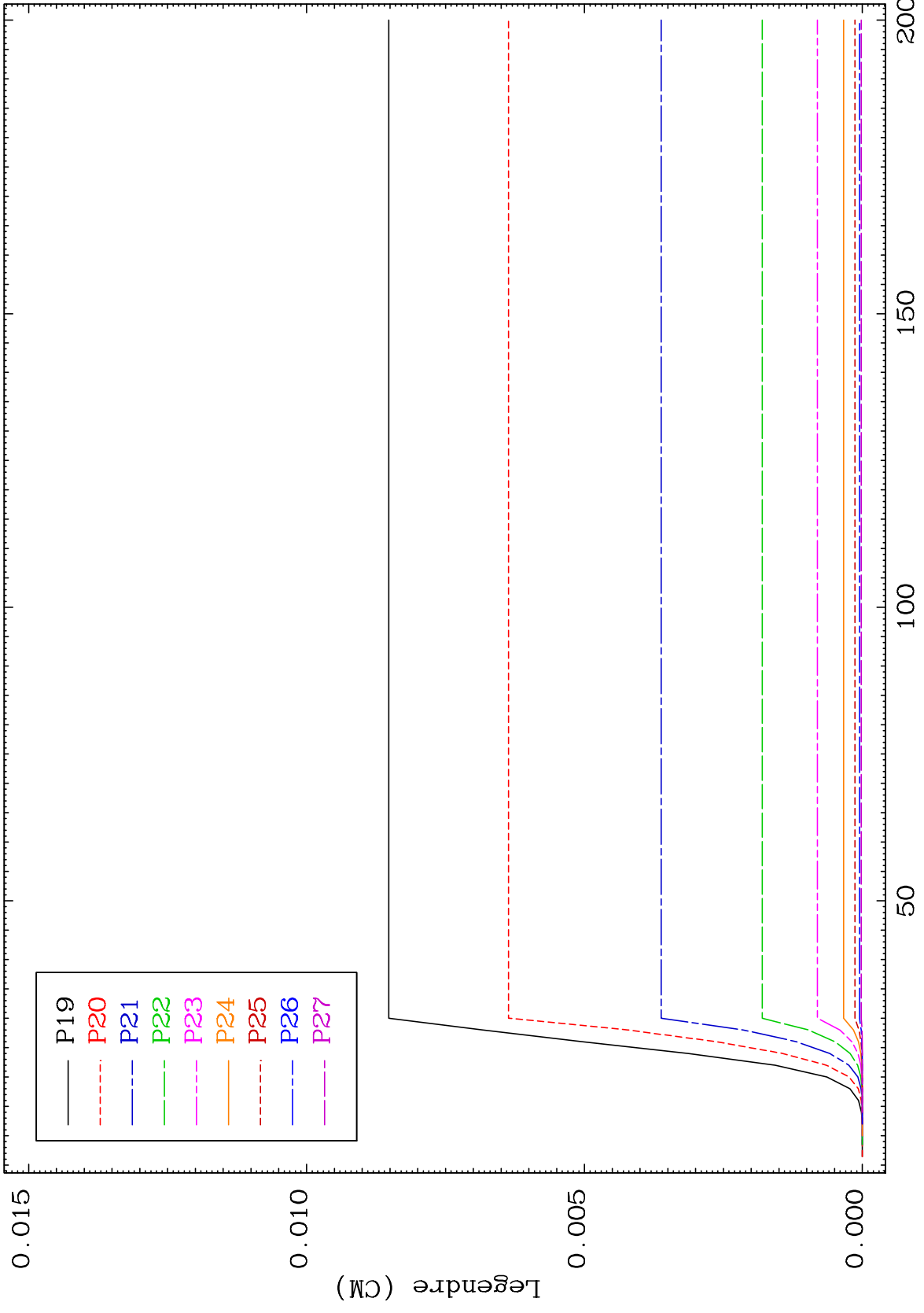


55 62-Sm-139

MAT 6210

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

62-Sm-139



56

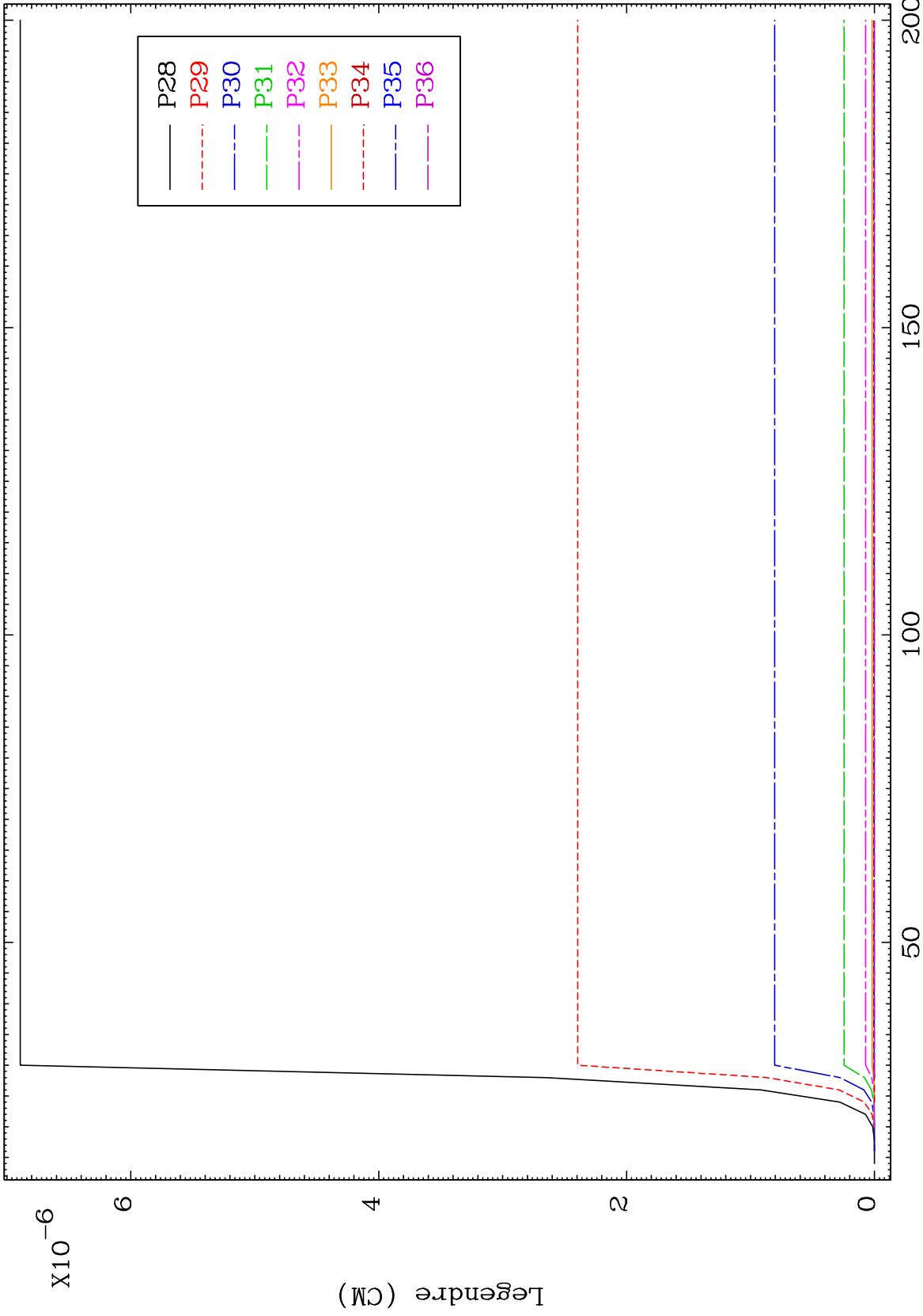
Incident Energy (MeV)

62-Sm-139

MAT 6210

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

62-Sm-139



57

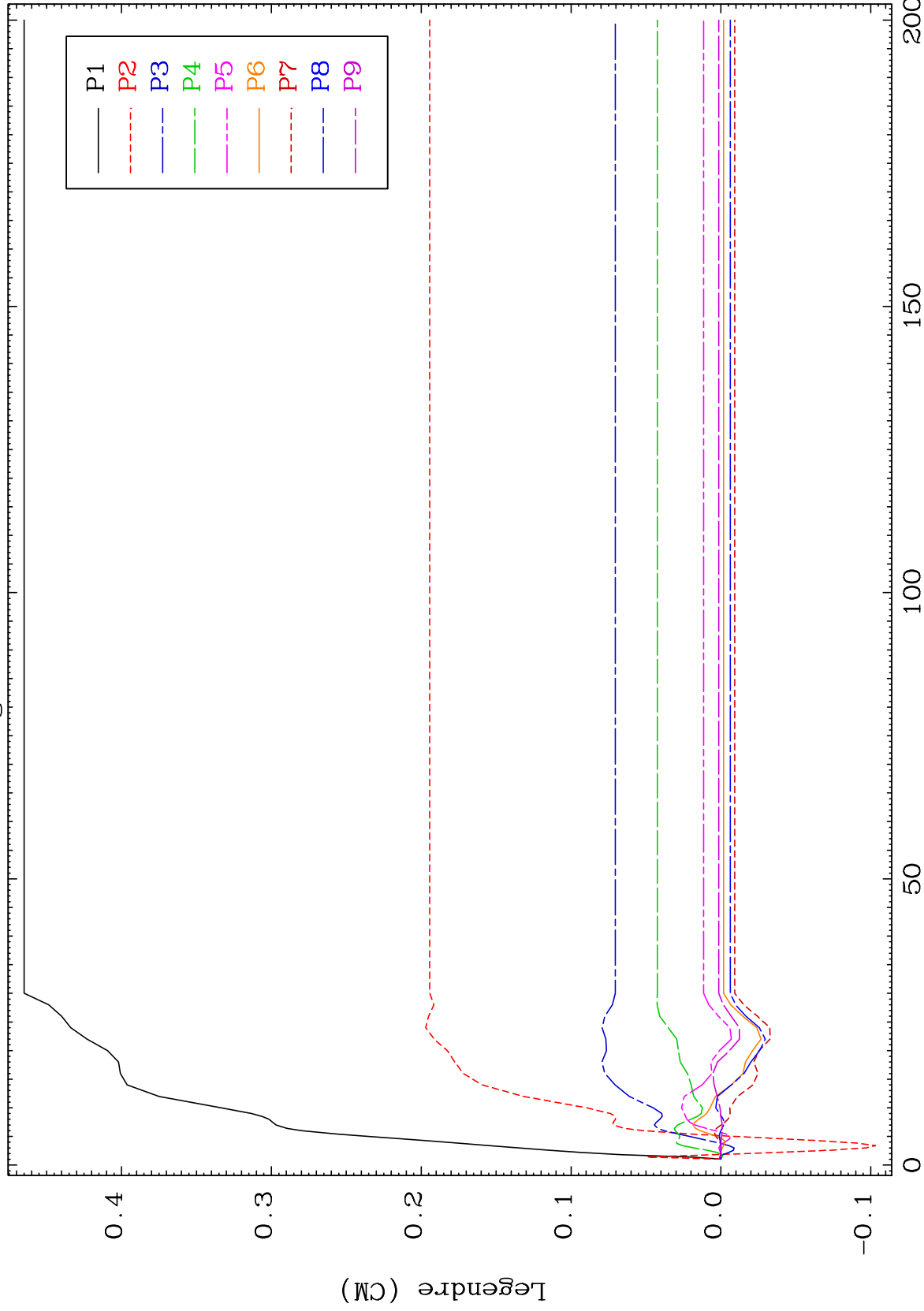
Incident Energy (MeV)

62-Sm-139

MAT 6210

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

62-Sm-139

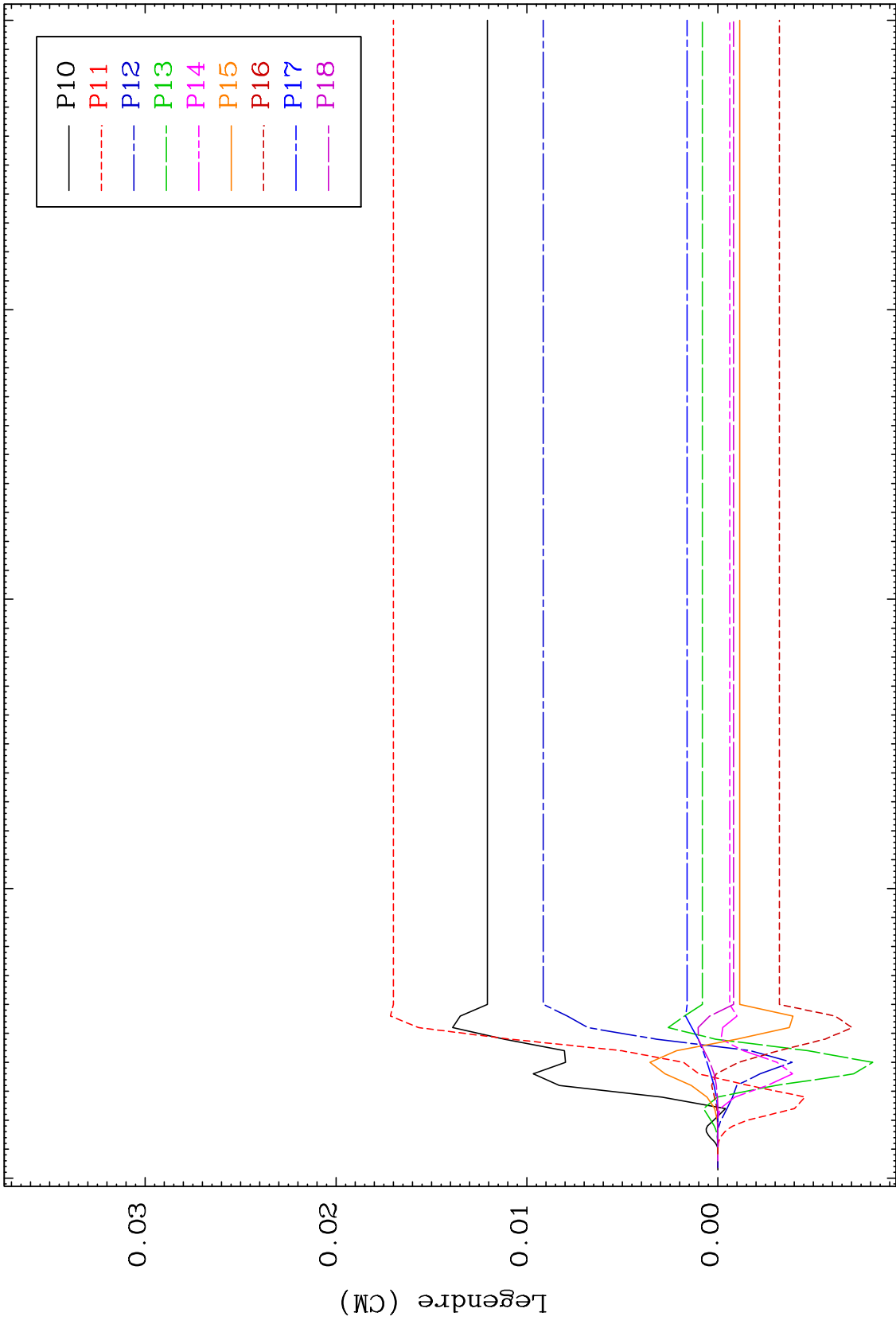


58

Incident Energy (MeV)

62-Sm-139

MAT 6210 MT= 61 (n,n') Level Legendre Coefficients 62-Sm-139



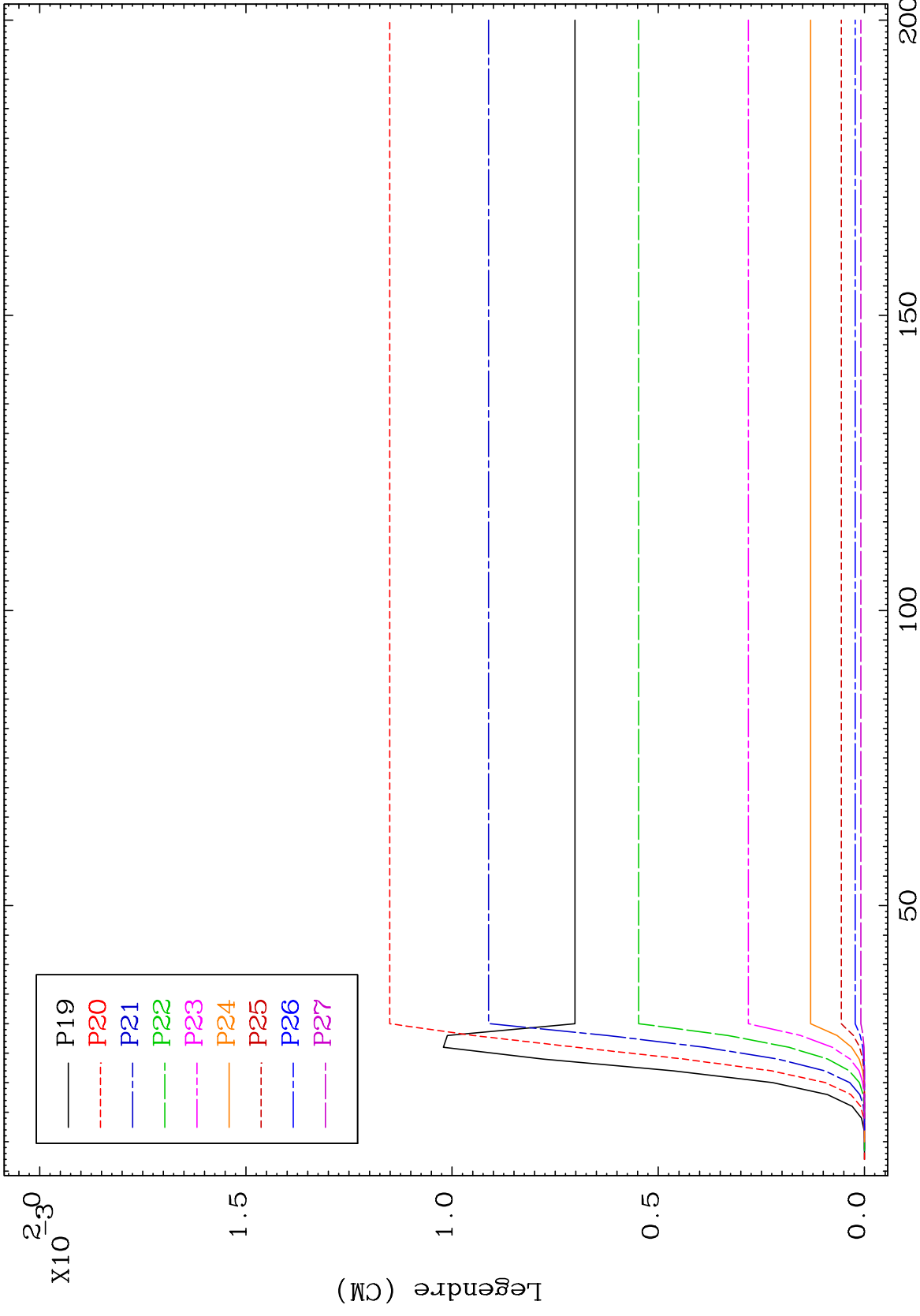
59 62-Sm-139

MAT 6210

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

62-Sm-139

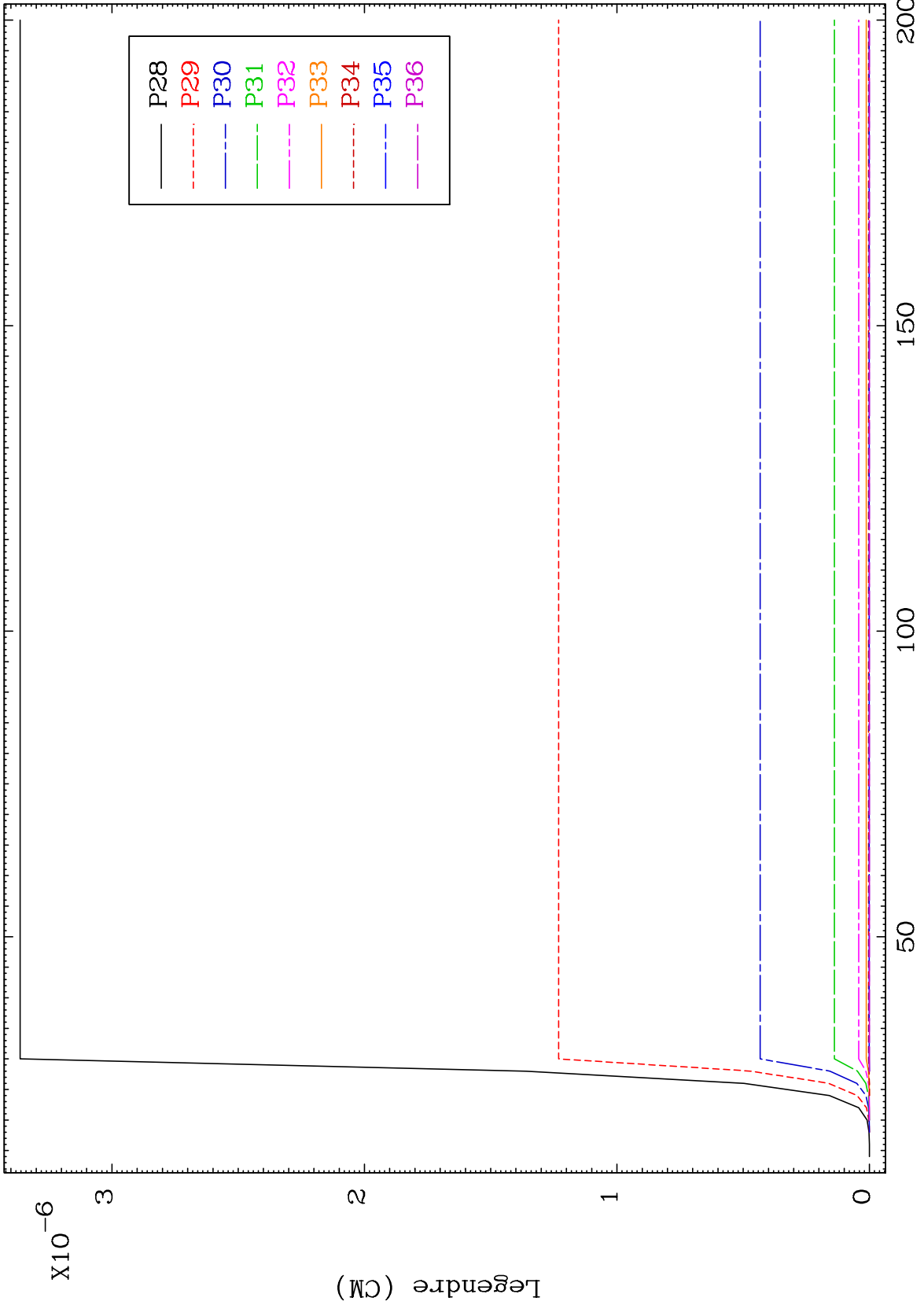
62-Sm-139



MAT 6210

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

62-Sm-139



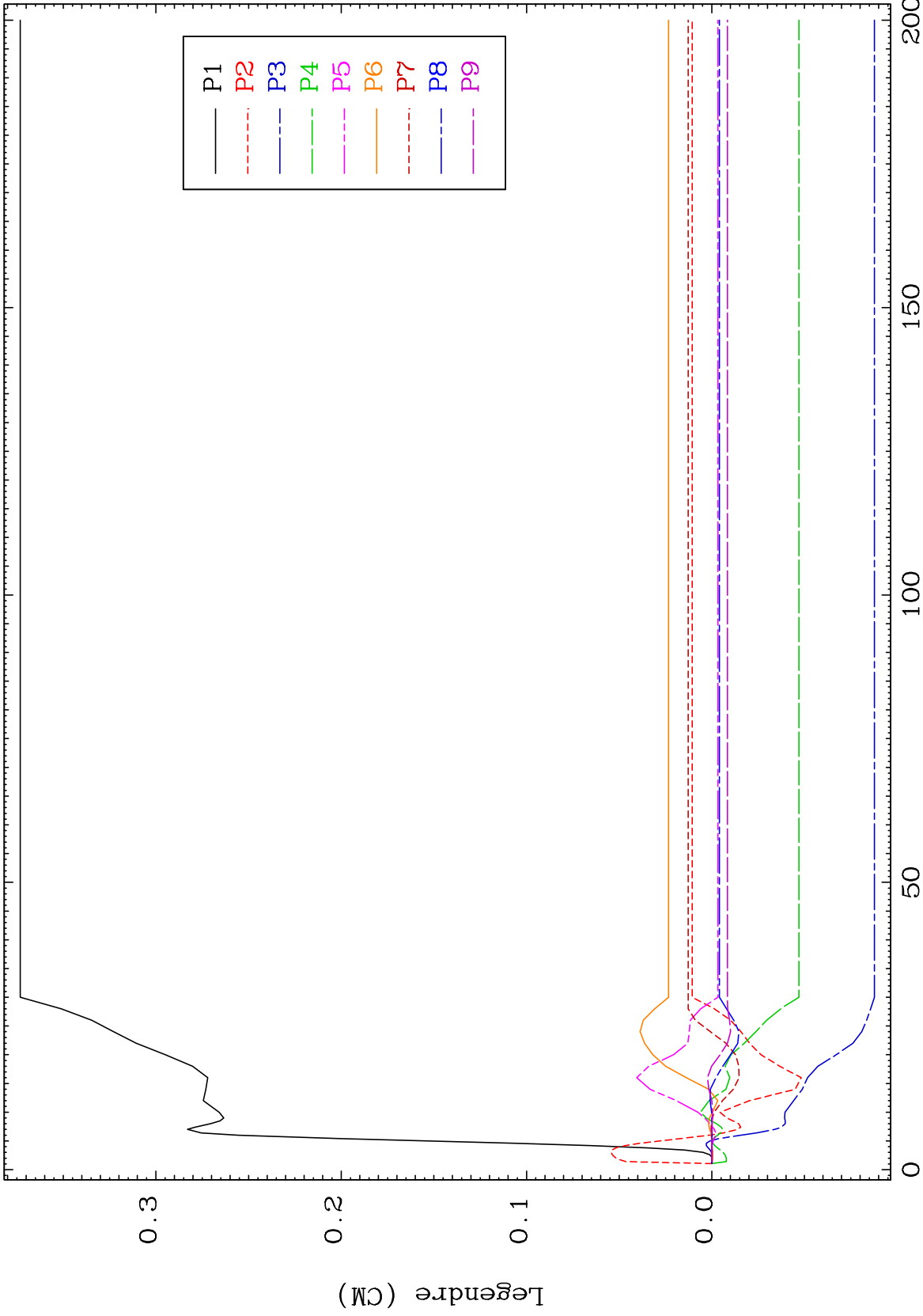
61

62-Sm-139

MAT 6210

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

62-Sm-139



62

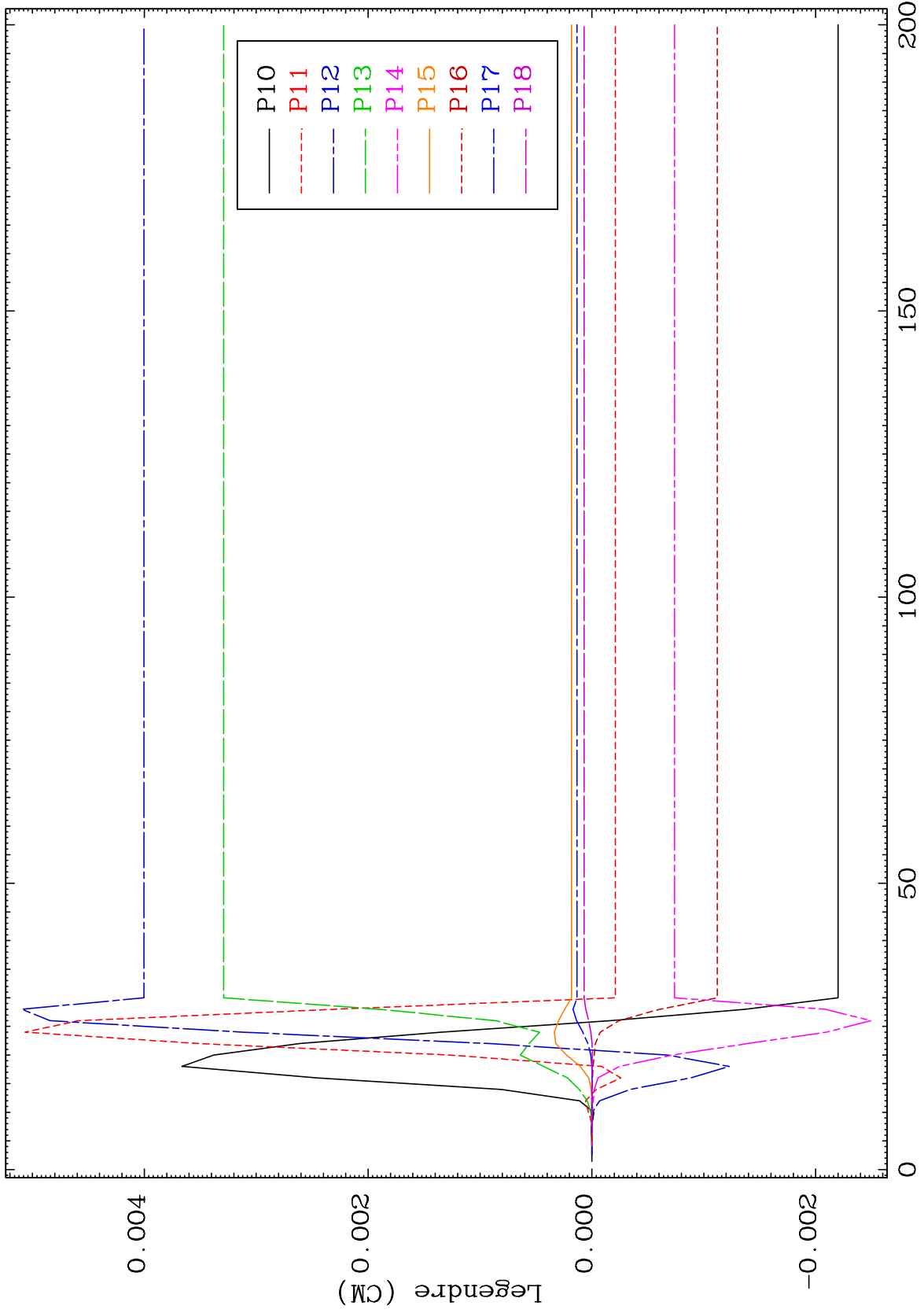
Incident Energy (MeV)

62-Sm-139

MAT 6210

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

62-Sm-139



63

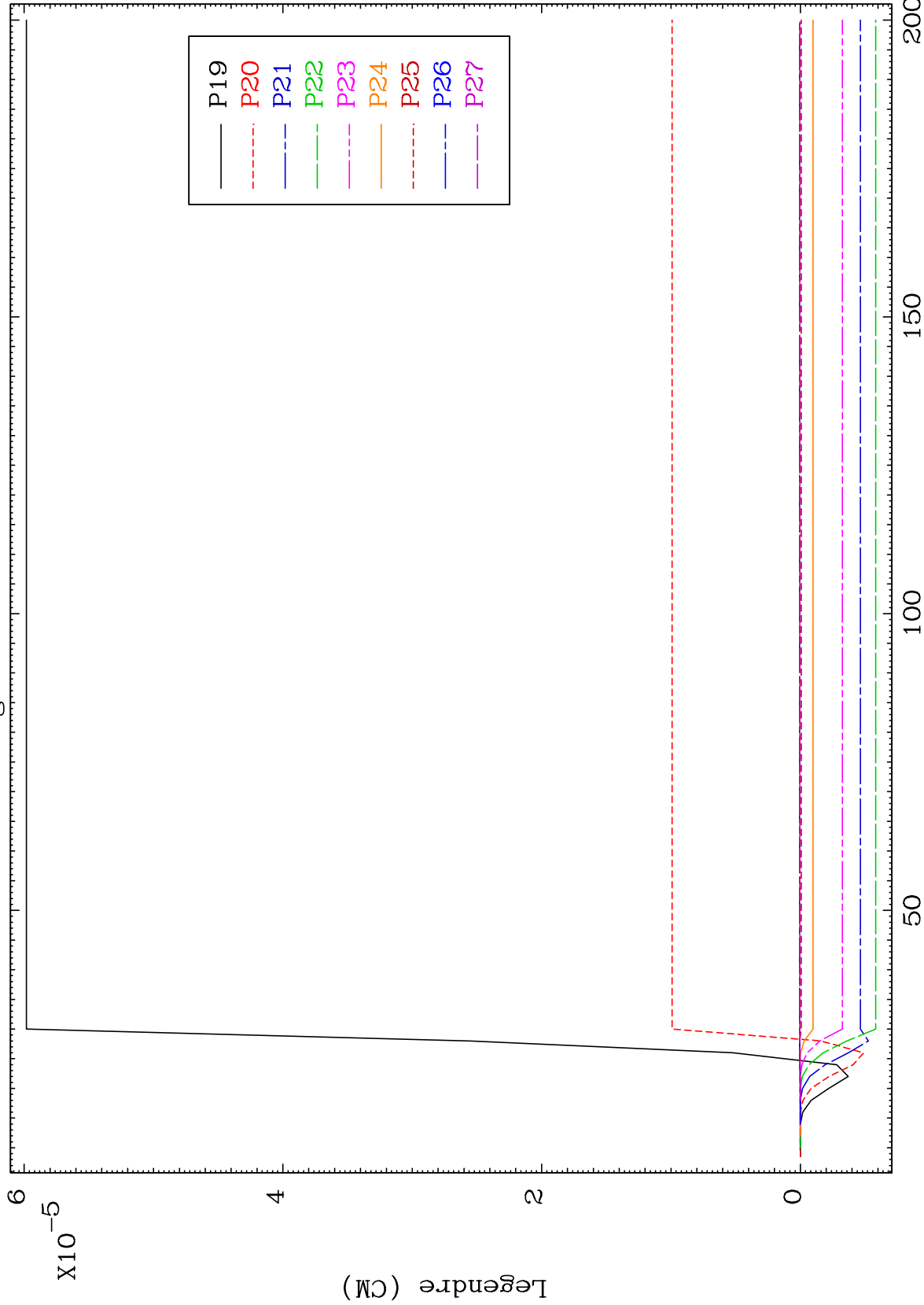
Incident Energy (MeV)

62-Sm-139

MAT 6210

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

62-Sm-139



64

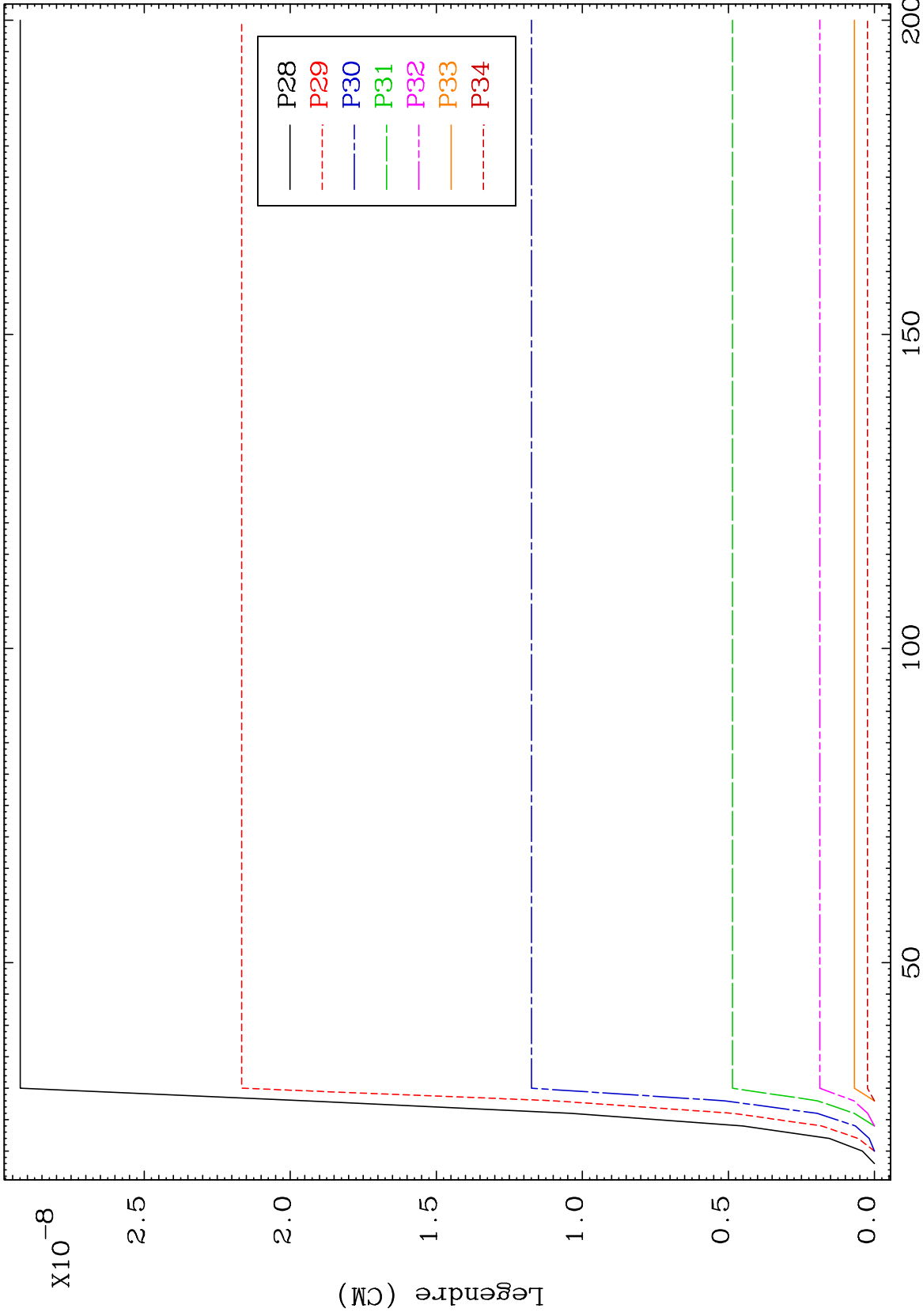
Incident Energy (MeV)

62-Sm-139

MAT 6210

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

62-Sm-139



65

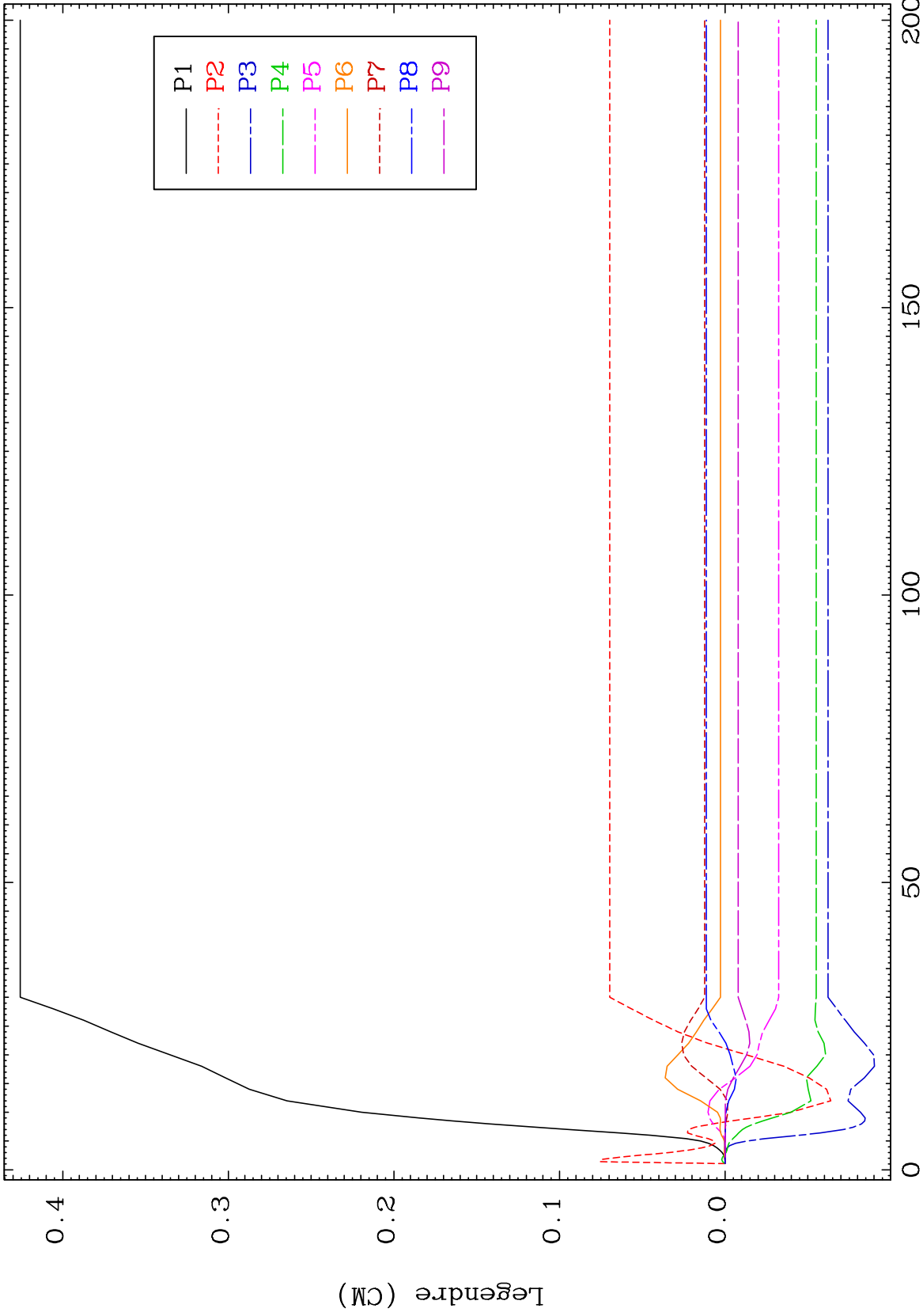
Incident Energy (MeV)

62-Sm-139

MAT 6210

MT= 63 (n,n') Level
Legendre Coefficients

62-Sm-139



66

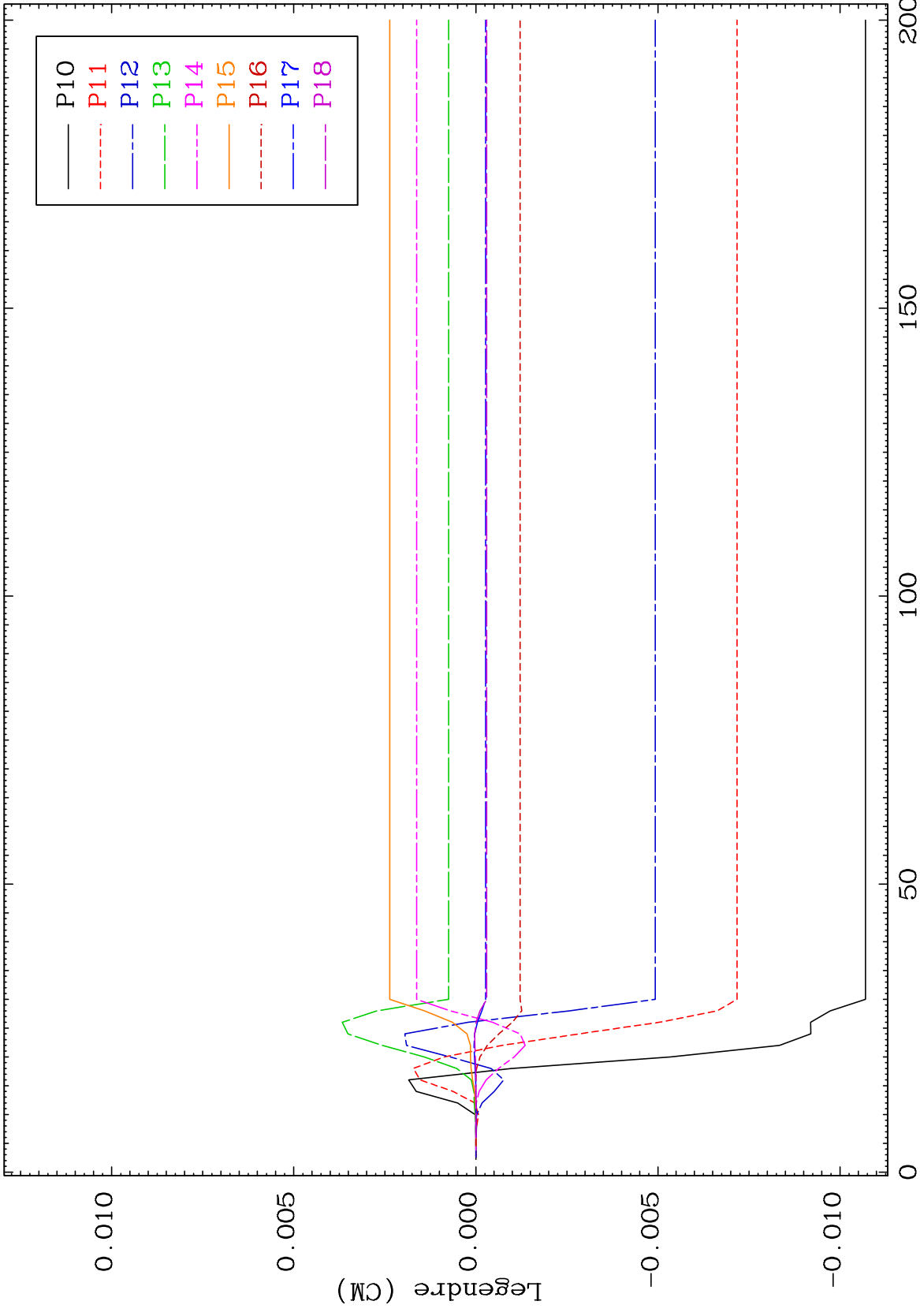
Incident Energy (MeV)

62-Sm-139

MAT 6210

MT= 63 (n,n') Level
Legendre Coefficients

62-Sm-139

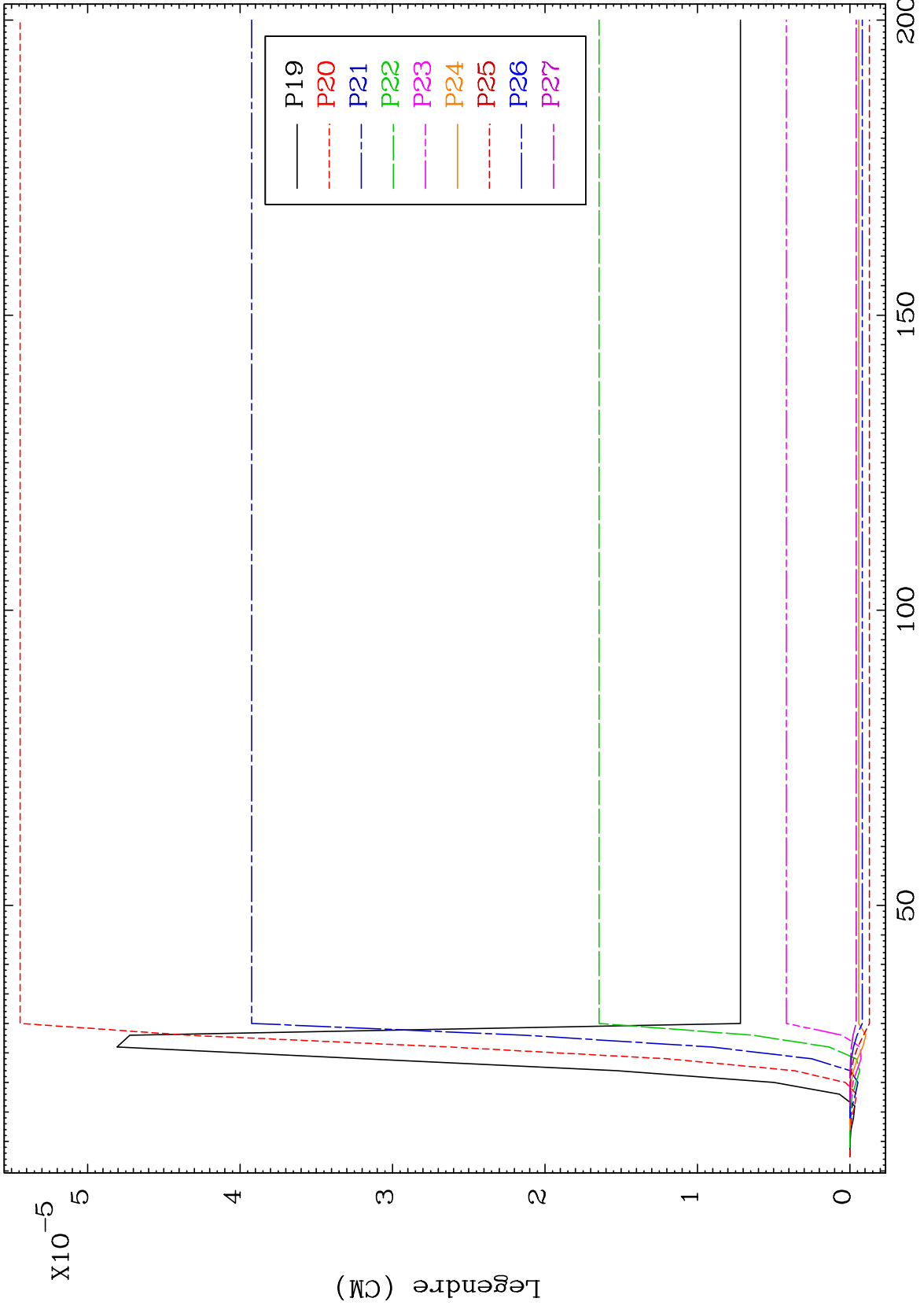


67

Incident Energy (MeV)

62-Sm-139

MAT 6210 MT= 63 (n,n') Level Legendre Coefficients 62-Sm-139

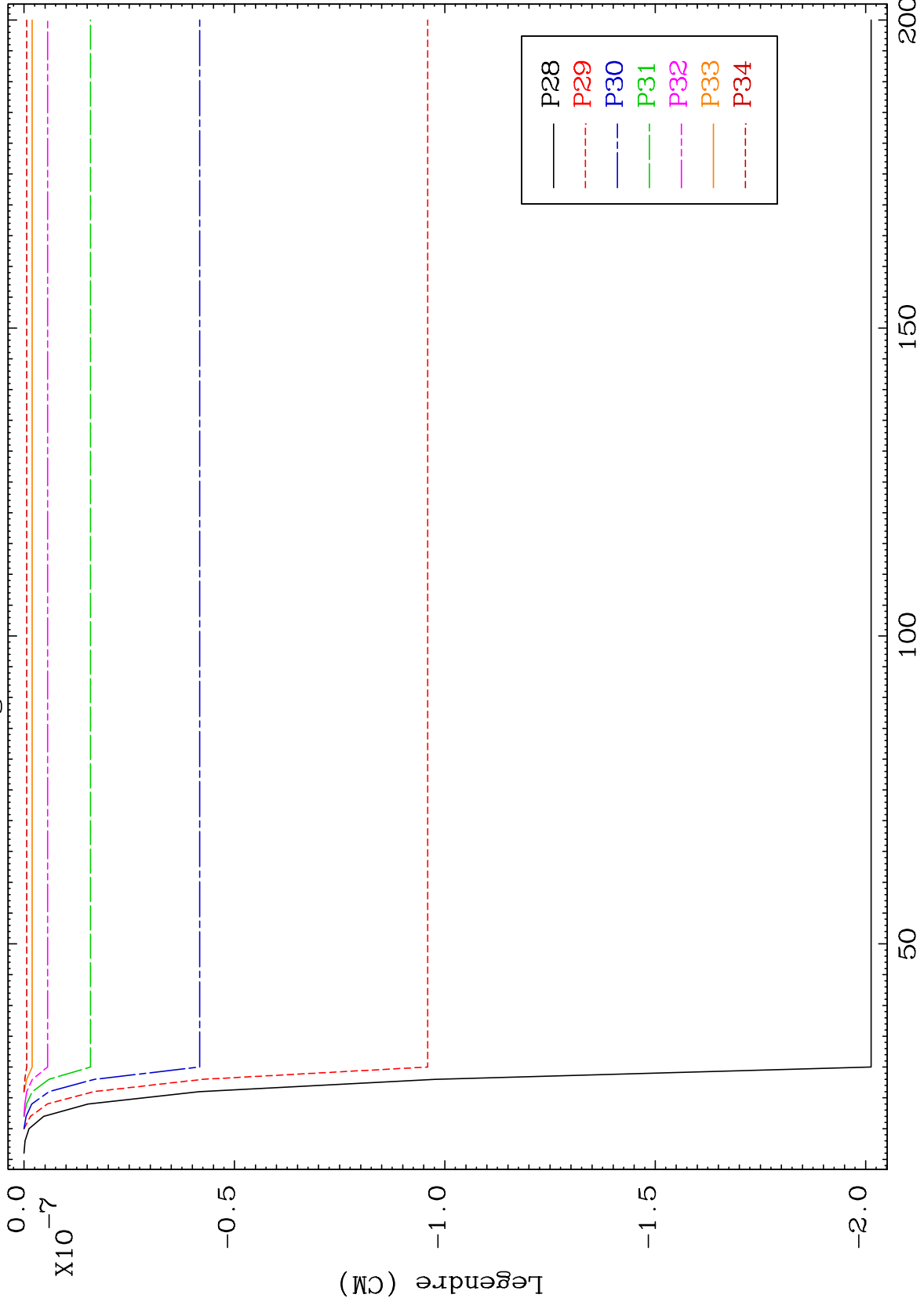


68 62-Sm-139

MAT 6210

MT= 63 (n,n') Level
Legendre Coefficients

62-Sm-139



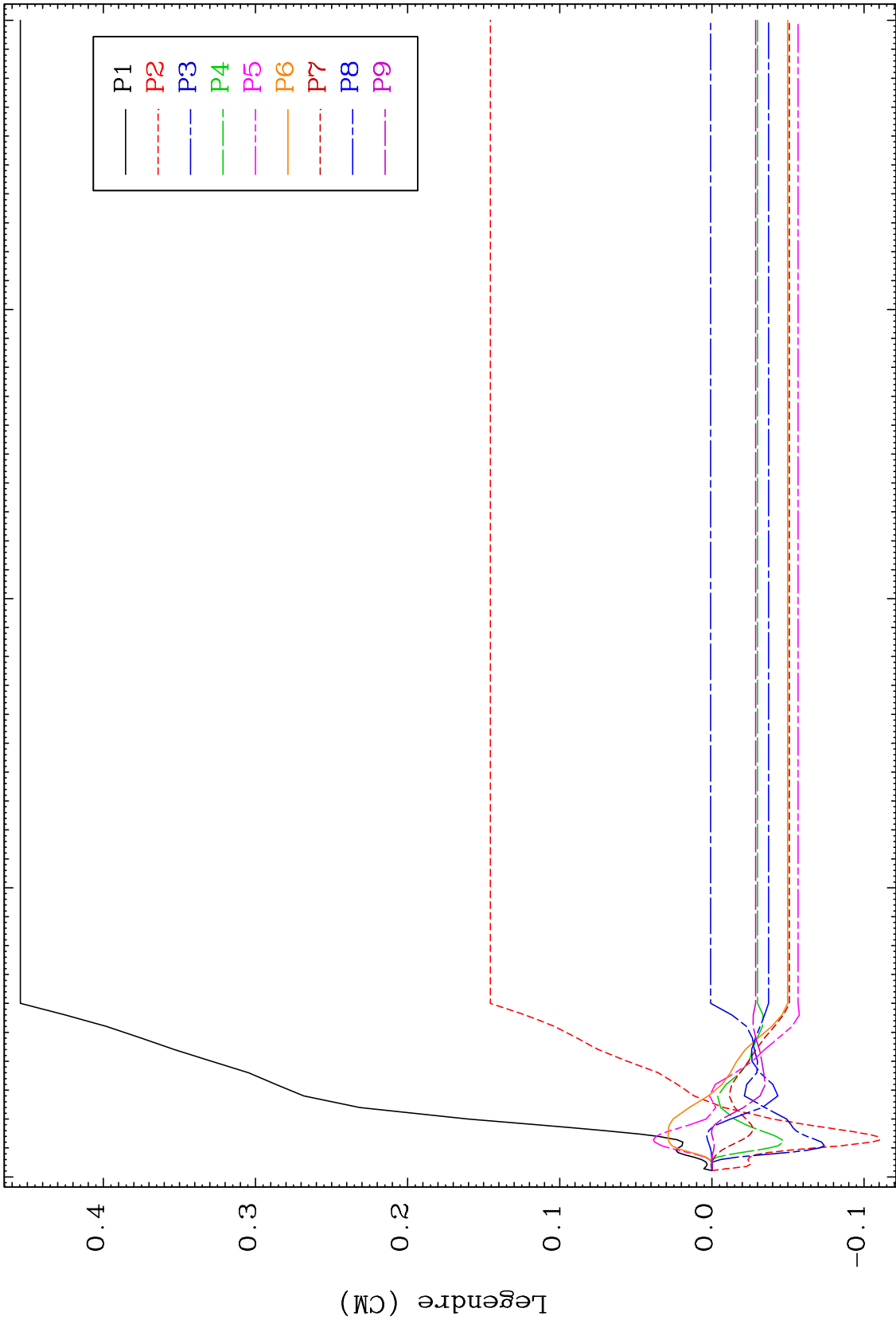
69

62-Sm-139

MAT 6210

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

62-Sm-139



70

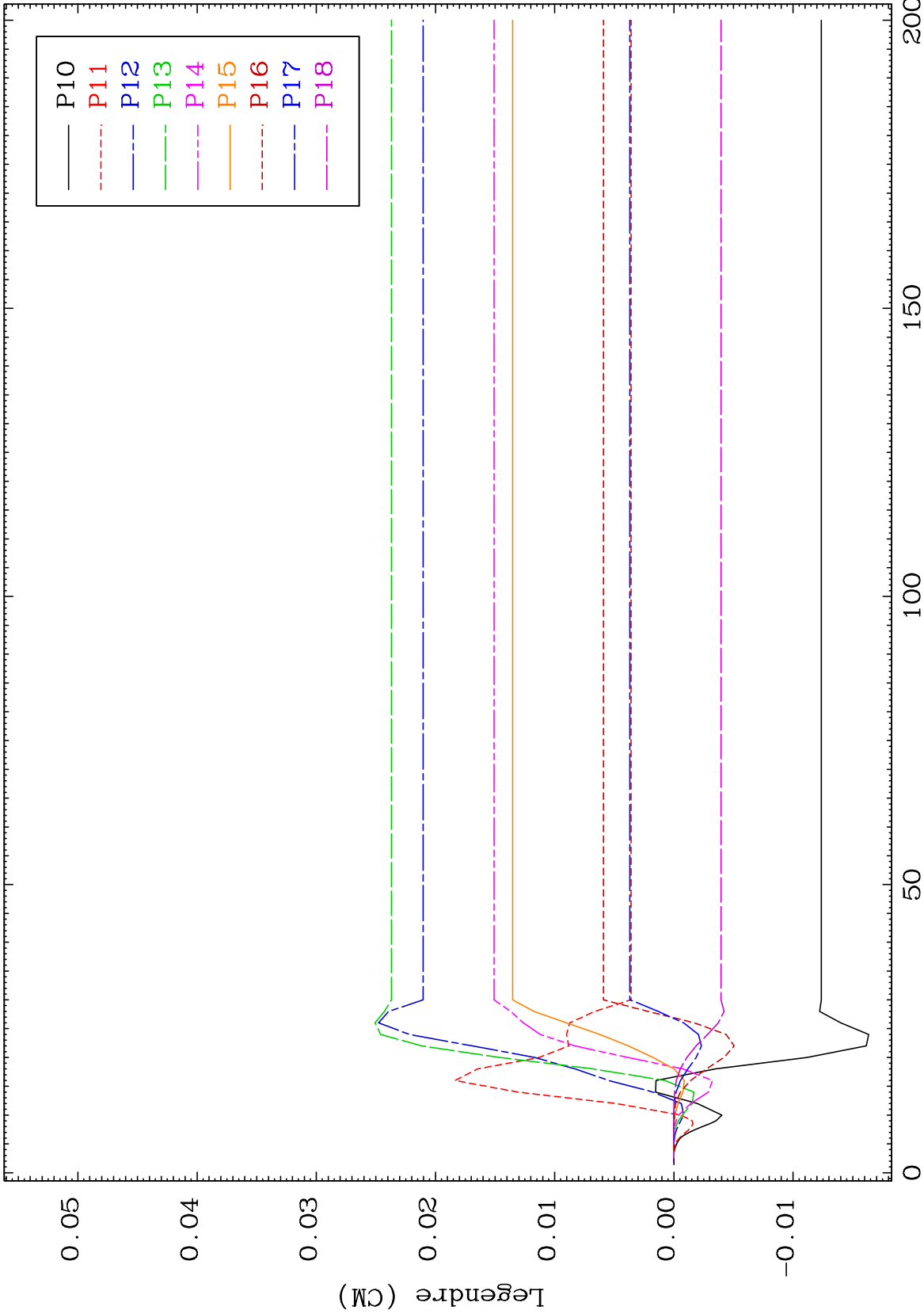
Incident Energy (MeV)

62-Sm-139

MAT 6210

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

62-Sm-139



71

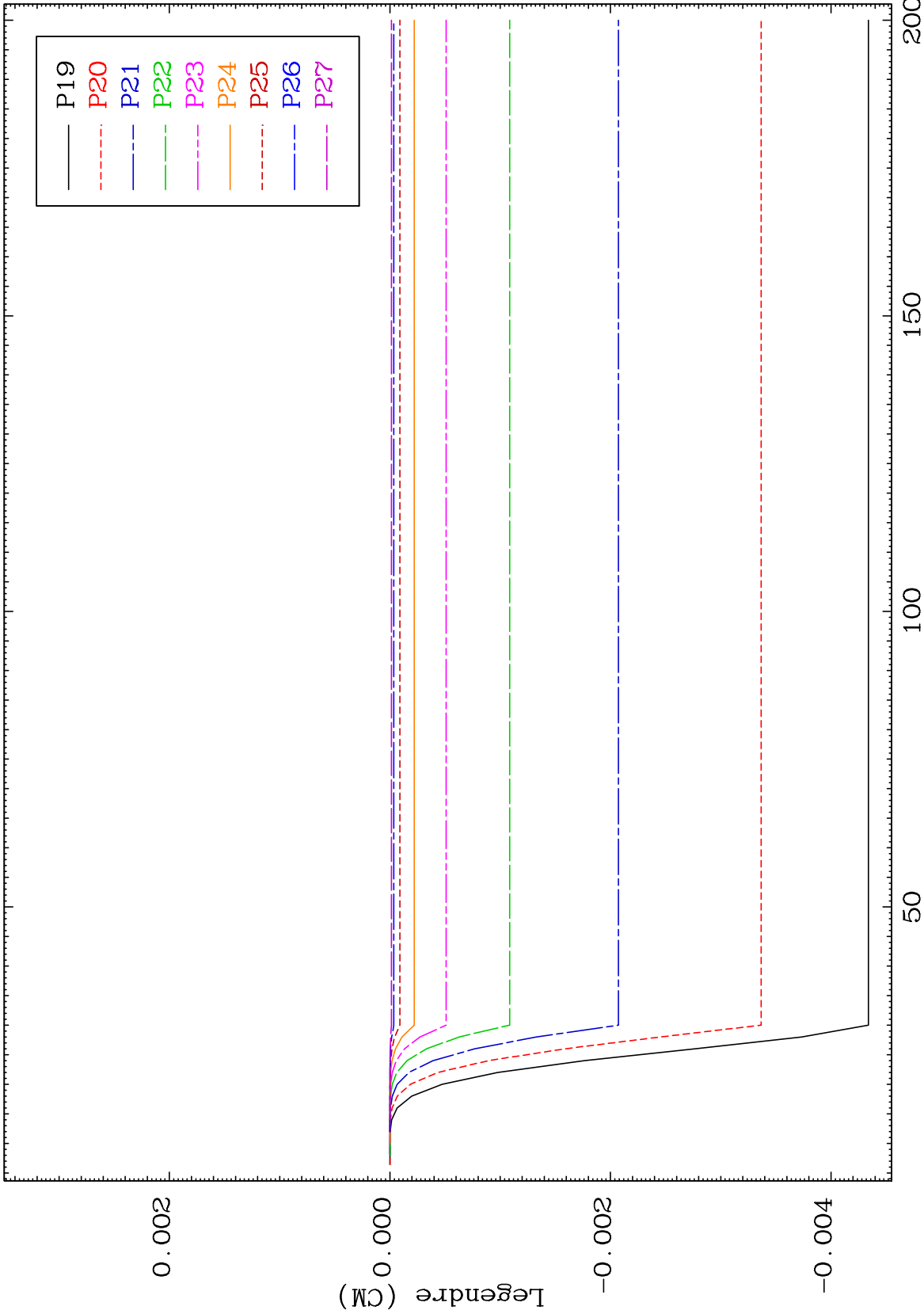
Incident Energy (MeV)

62-Sm-139

MAT 6210

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

62-Sm-139



72

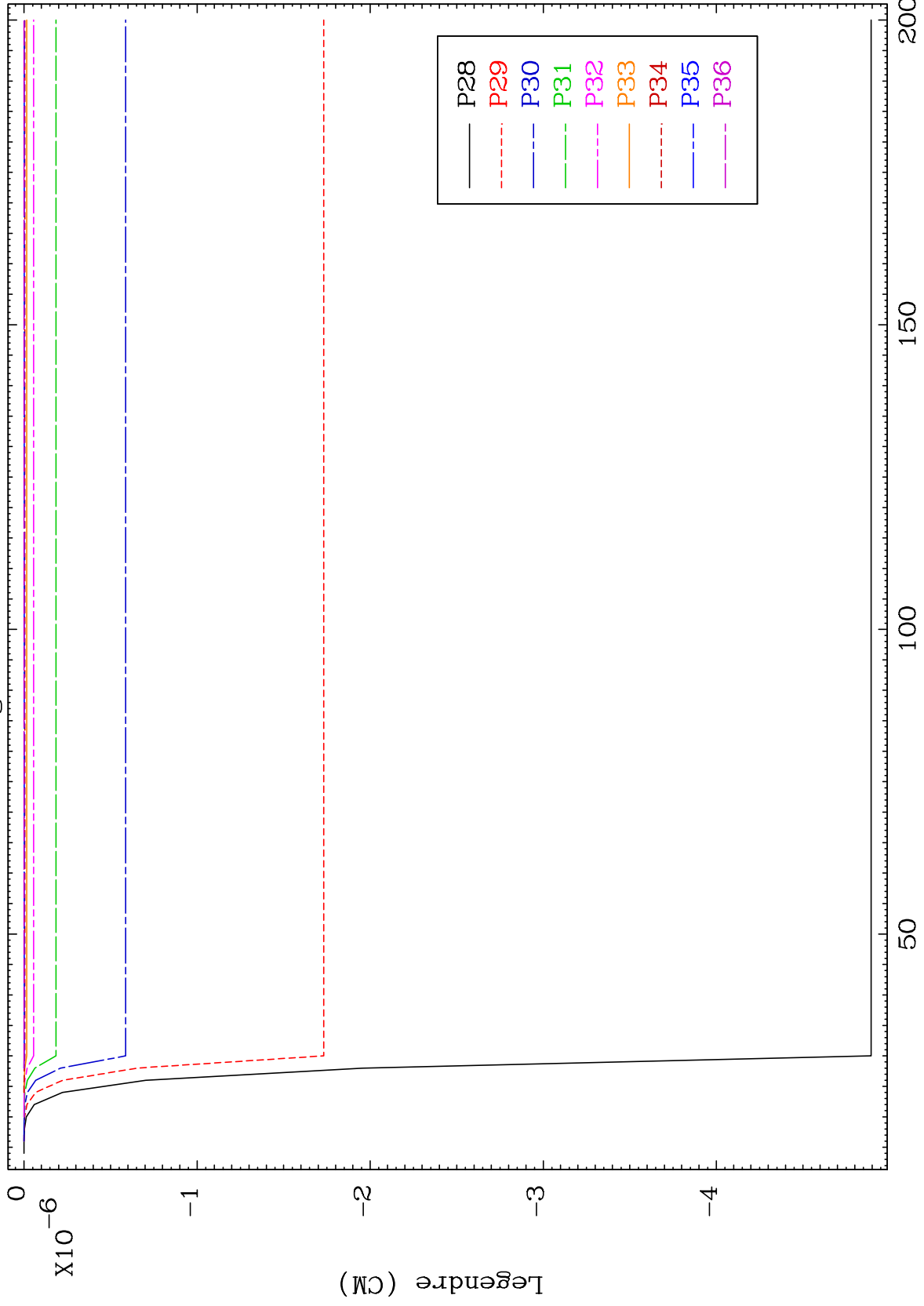
Incident Energy (MeV)

62-Sm-139

MAT 6210

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

62-Sm-139



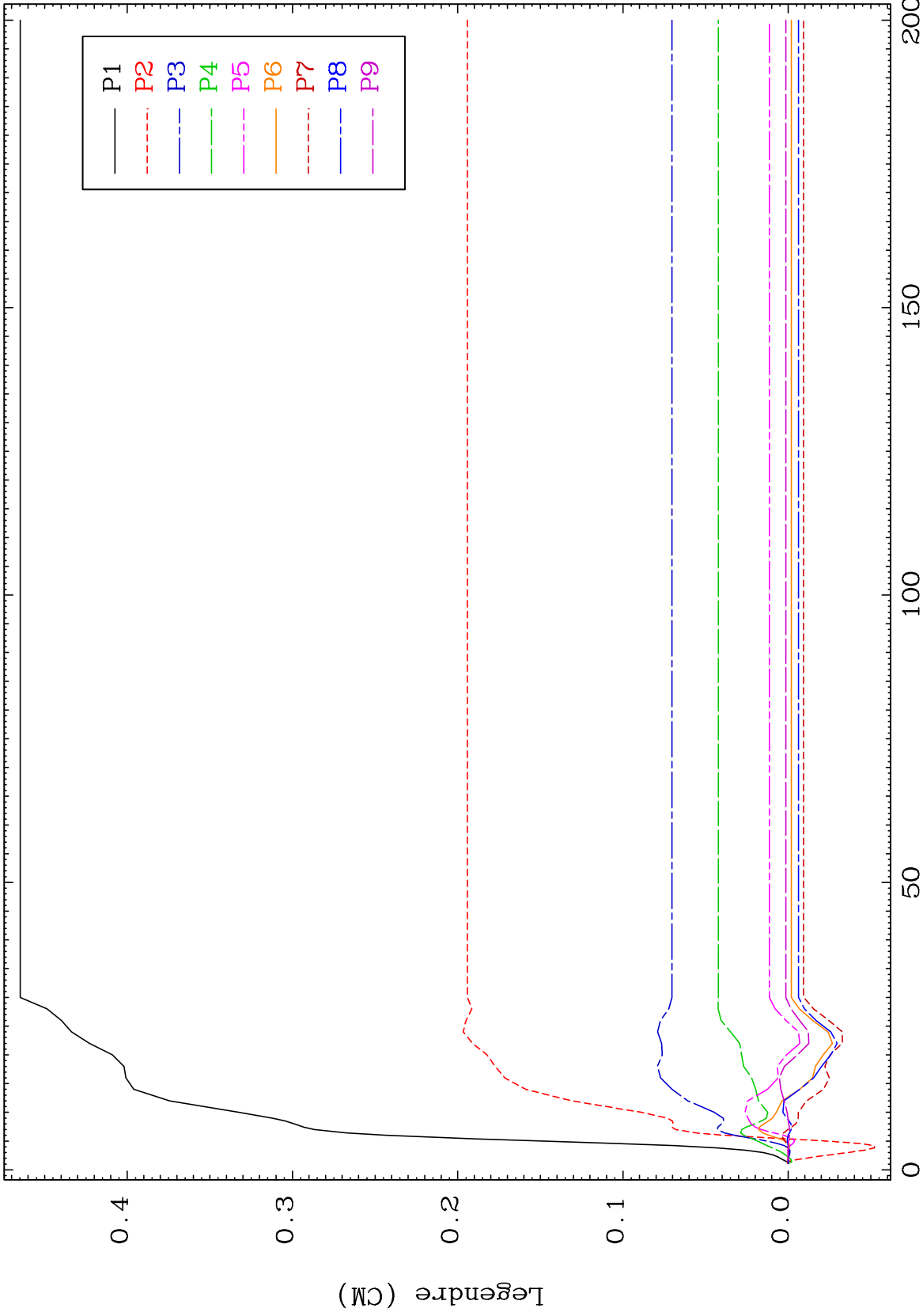
62-Sm-139

73

MAT 6210

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

62-Sm-139

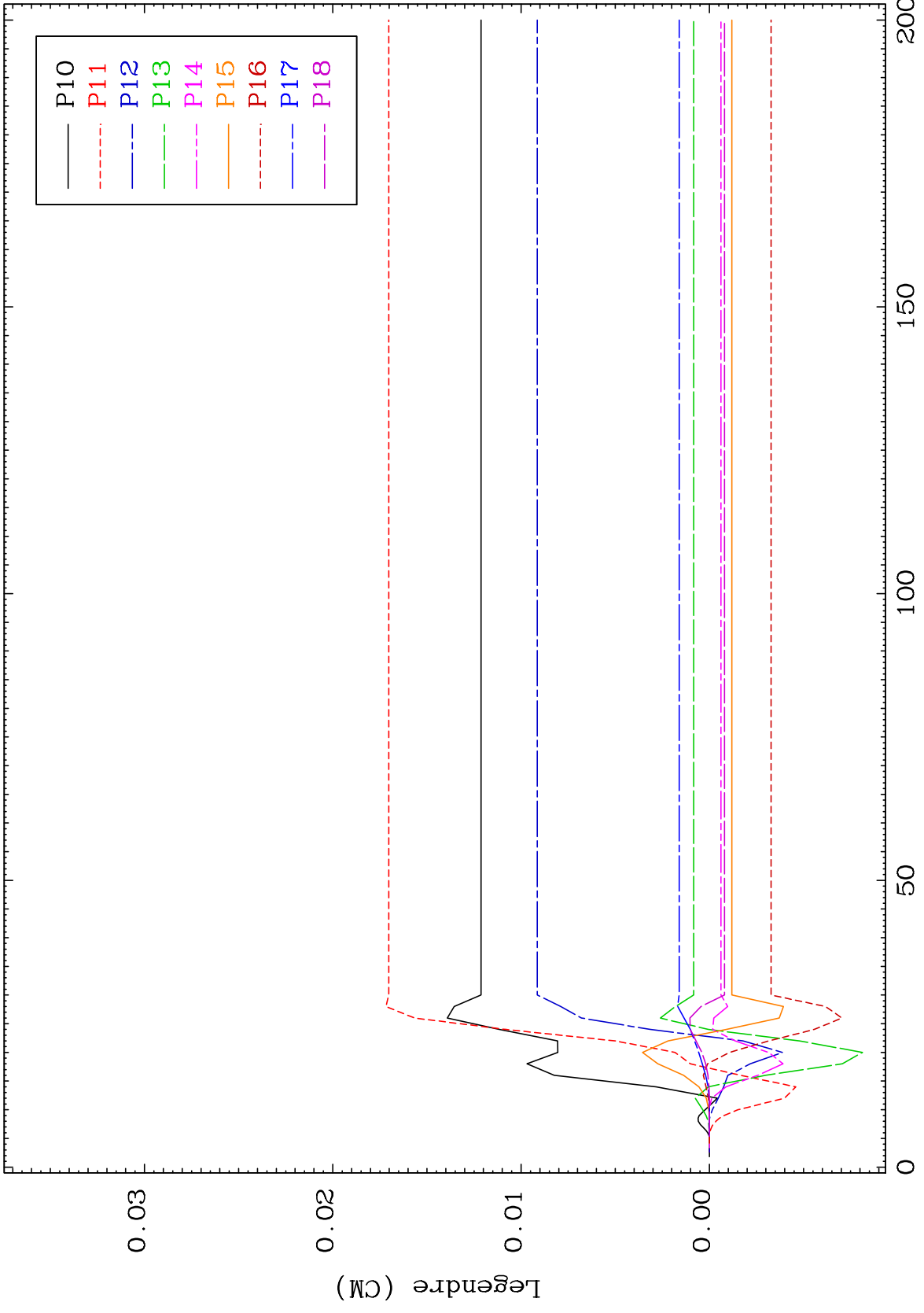


74

Incident Energy (MeV)

62-Sm-139

MAT 6210 MT= 65 (n,n') Level Legendre Coefficients 62-Sm-139

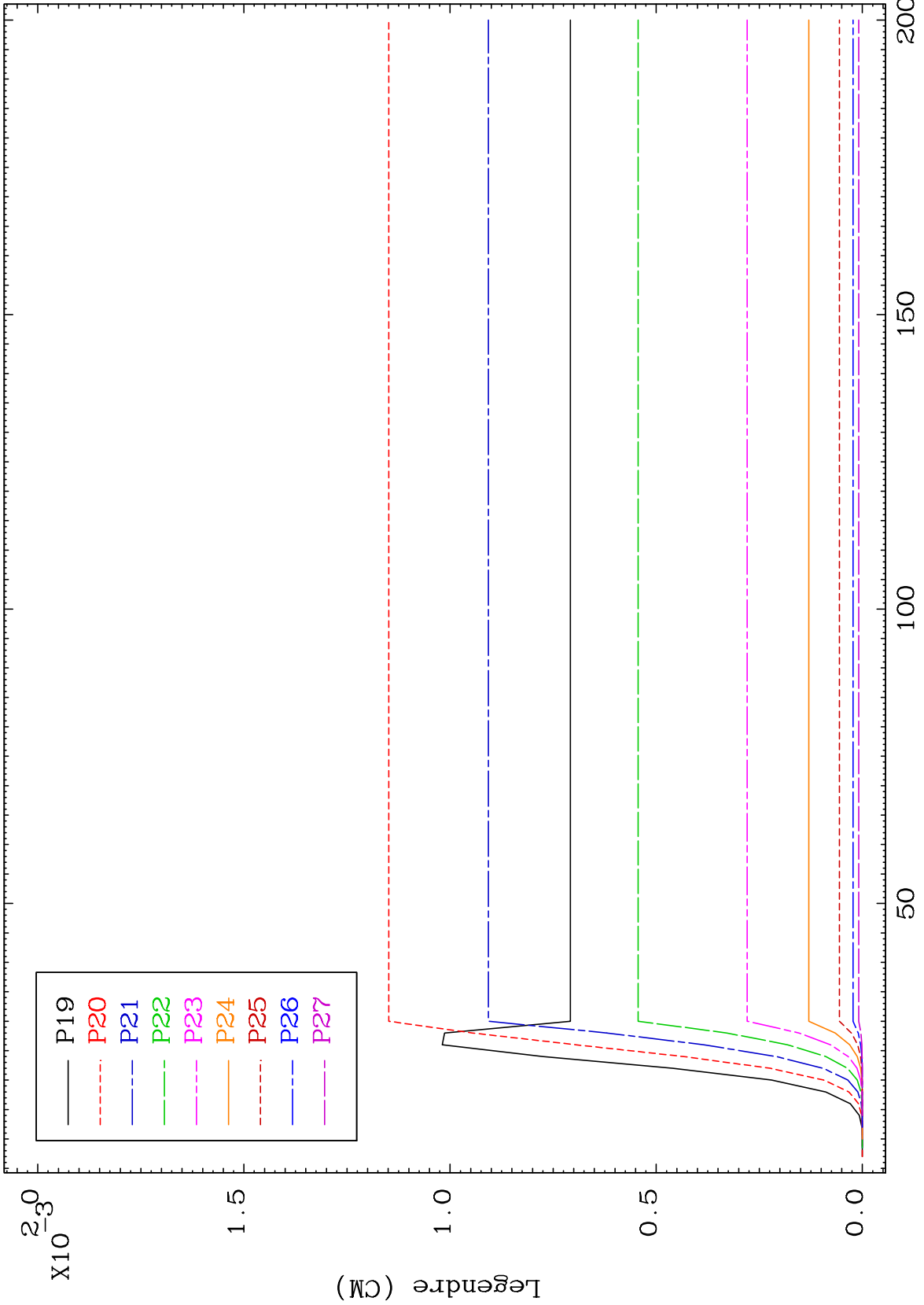


75 Incident Energy (MeV) 62-Sm-139

MAT 6210

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

62-Sm-139



76

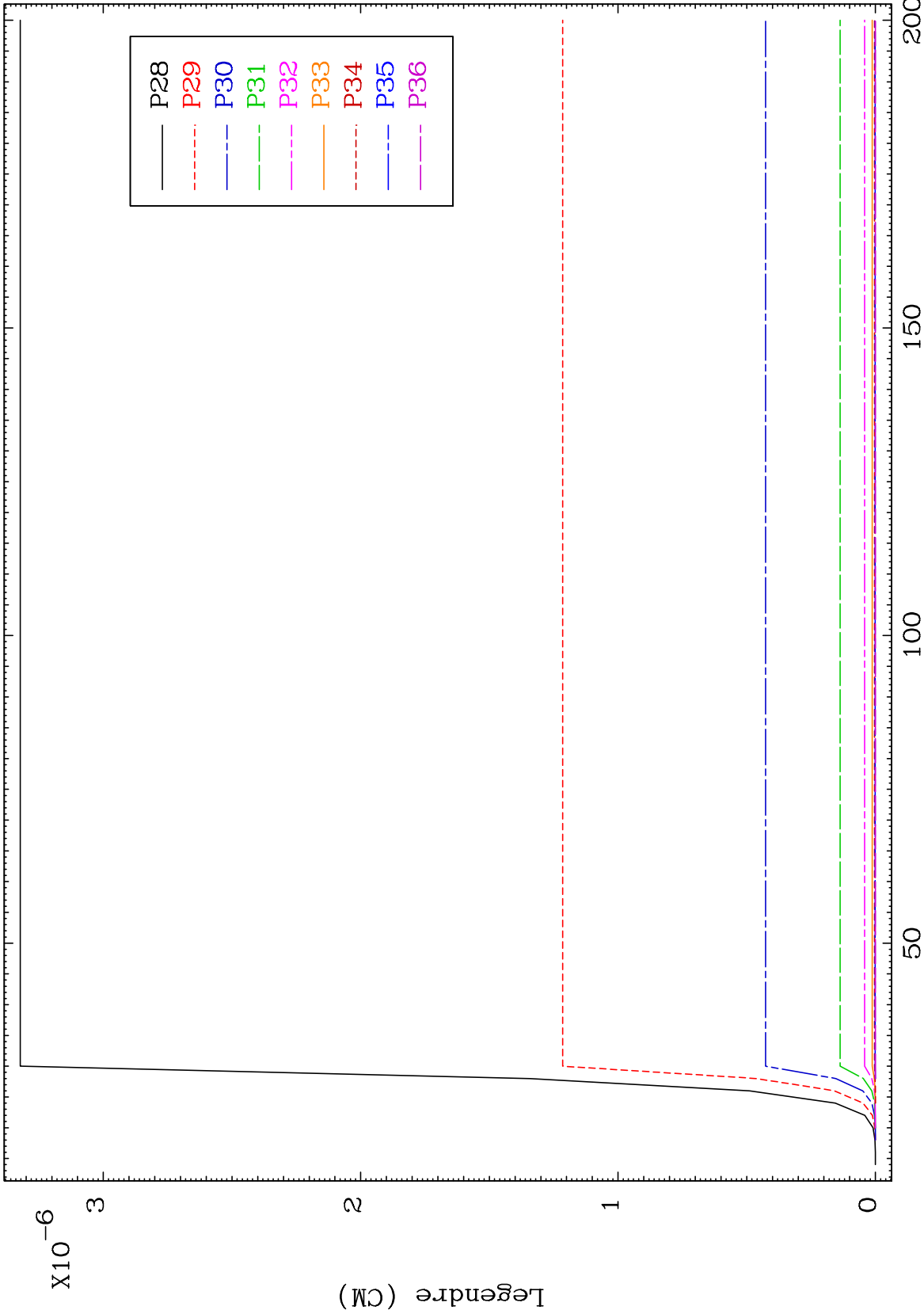
Incident Energy (MeV)

62-Sm-139

MAT 6210

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

62-Sm-139



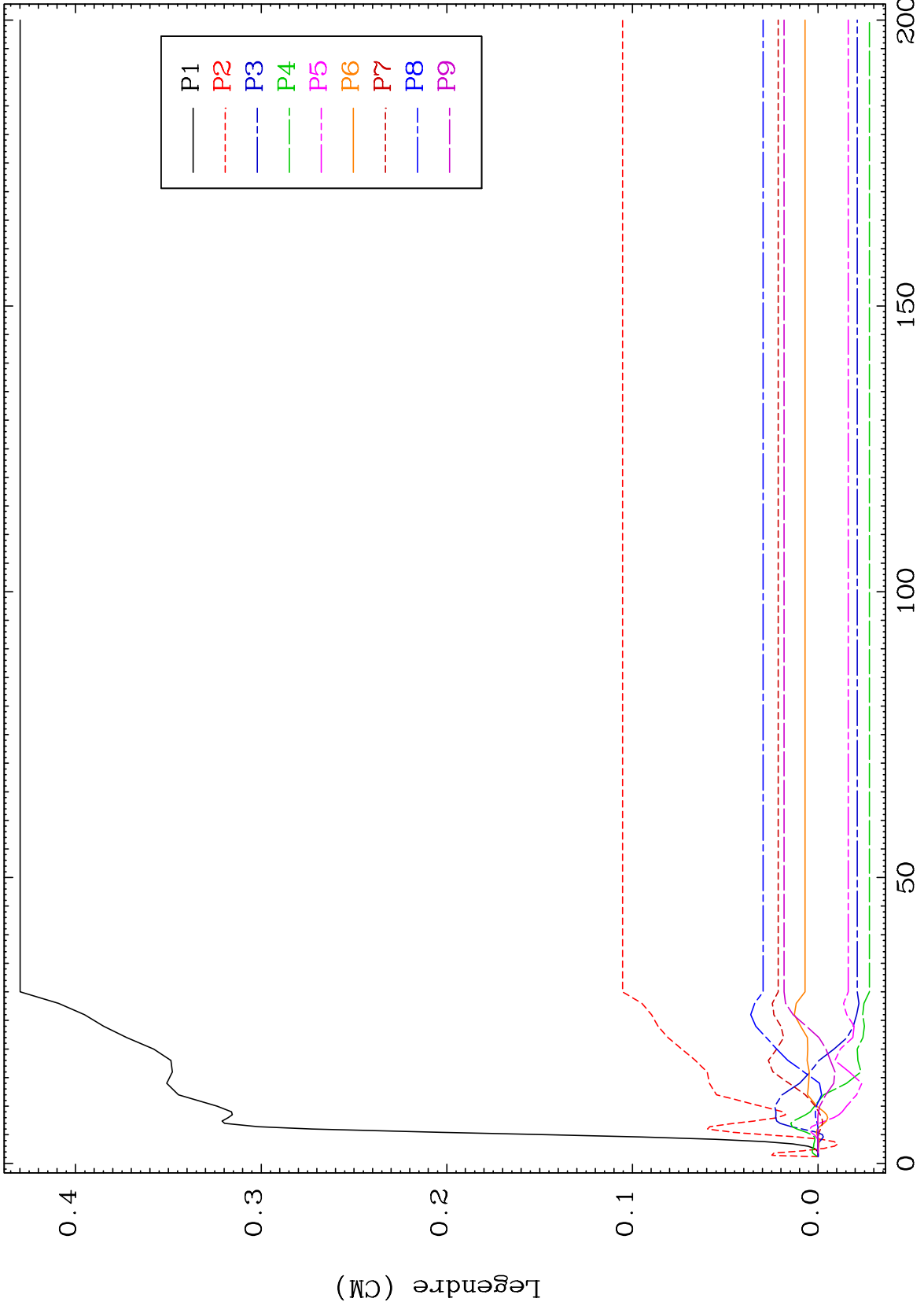
77

62-Sm-139

MAT 6210

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

62-Sm-139



78

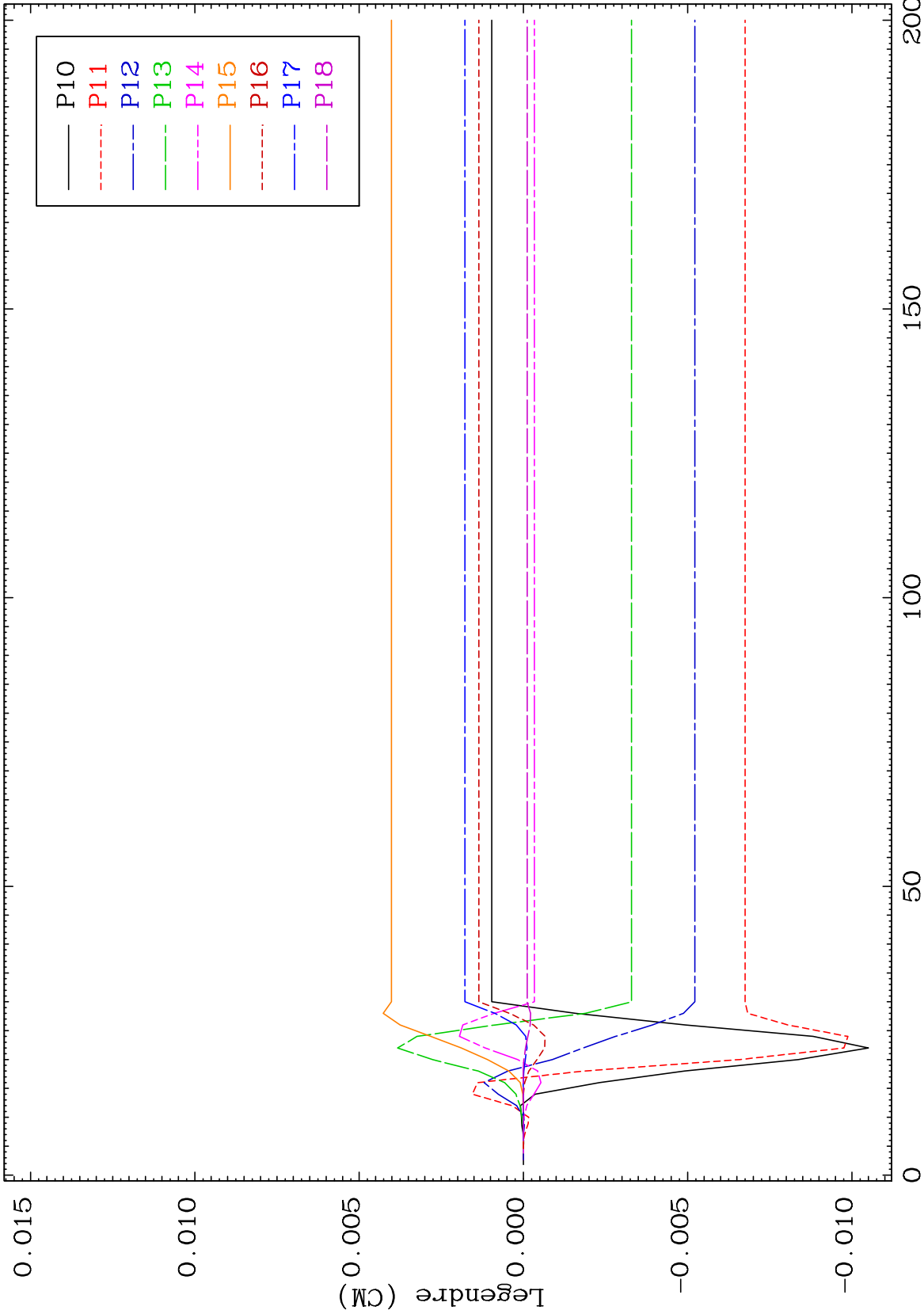
Incident Energy (MeV)

62-Sm-139

MAT 6210

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

62-Sm-139



79

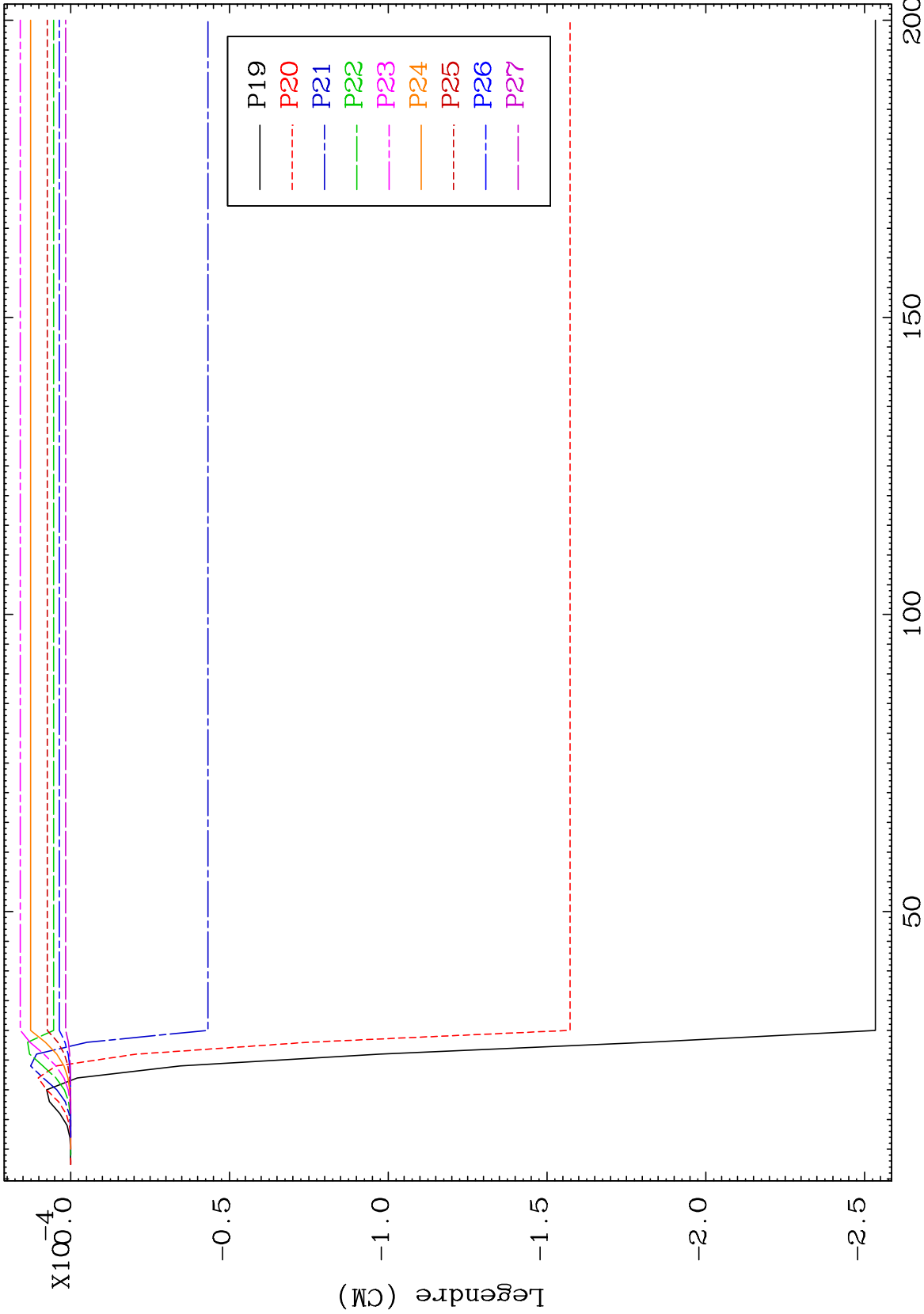
Incident Energy (MeV)

62-Sm-139

MAT 6210

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

62-Sm-139



80

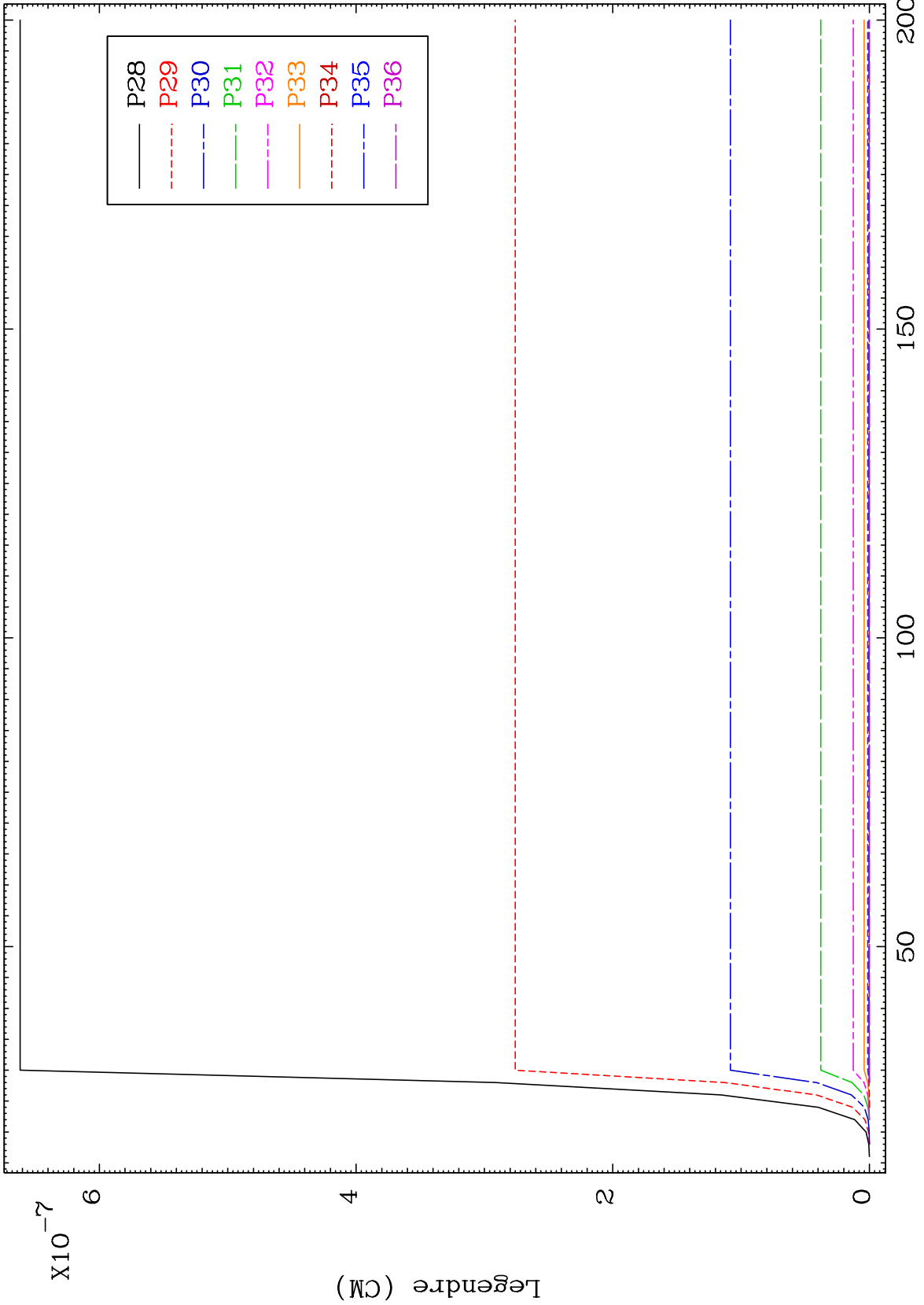
Incident Energy (MeV)

62-Sm-139

MAT 6210

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

62-Sm-139



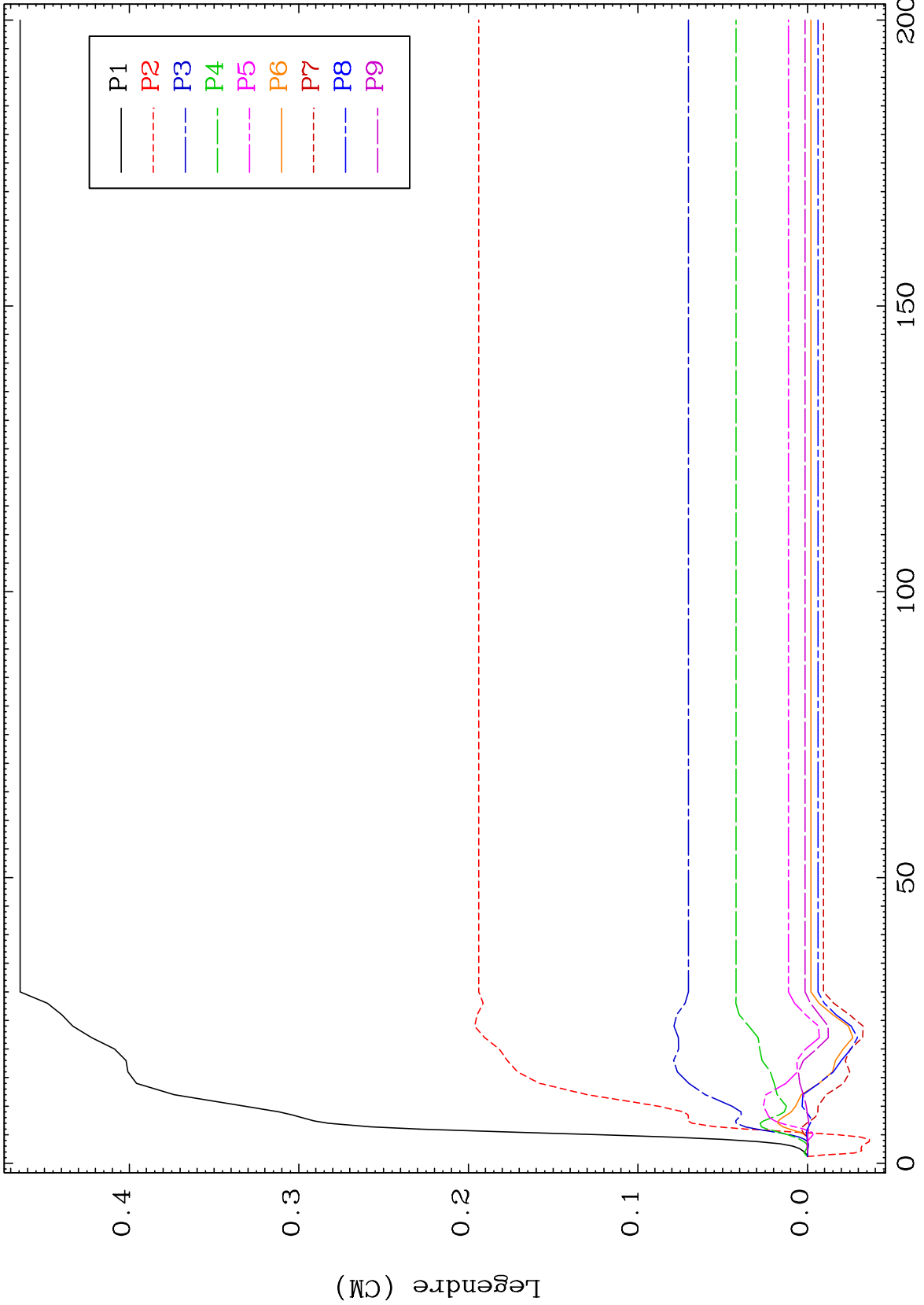
81

62-Sm-139

MAT 6210

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

62-Sm-139

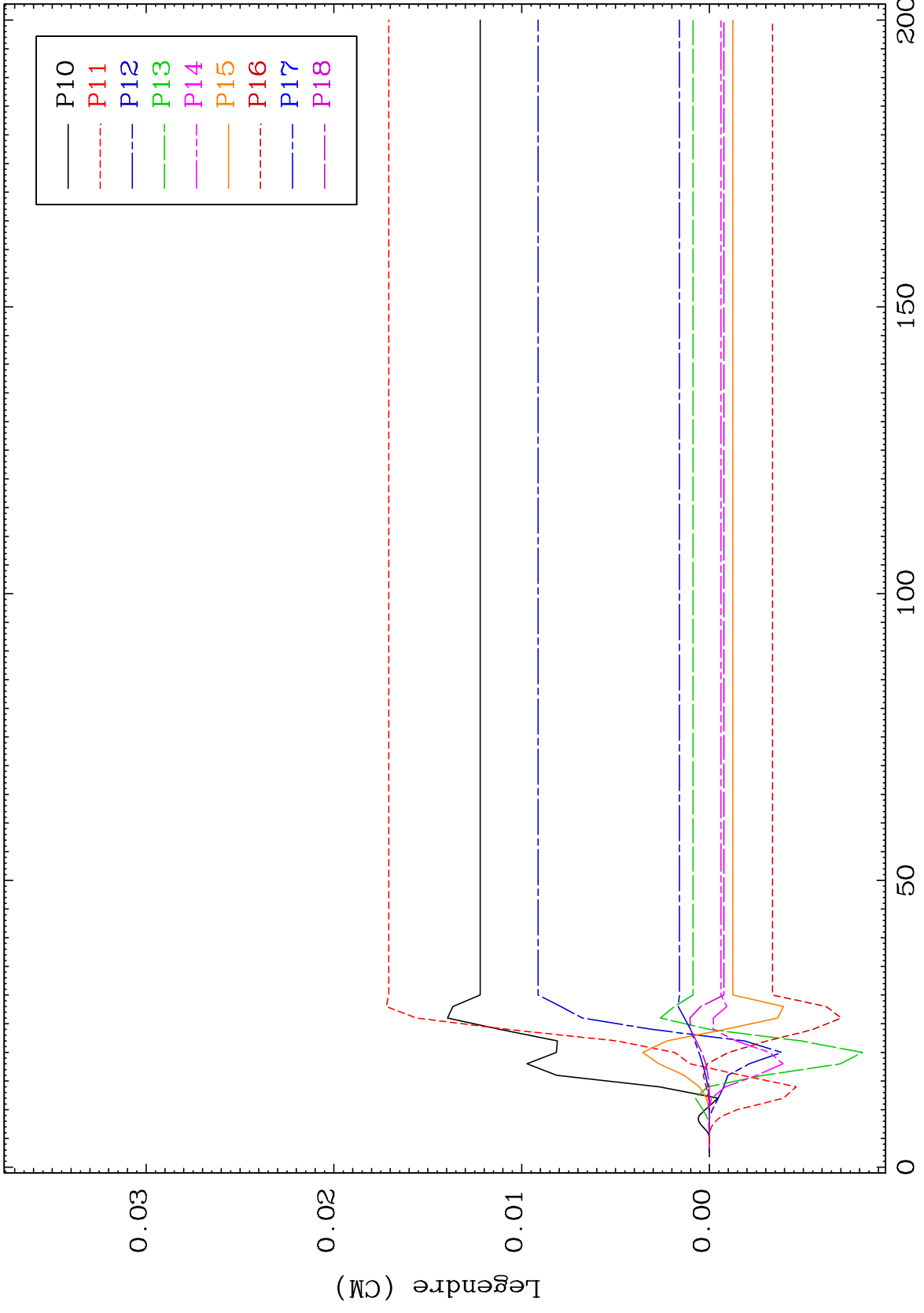


82

Incident Energy (MeV)

62-Sm-139

MAT 6210 MT= 67 (n,n') Level Legendre Coefficients 62-Sm-139

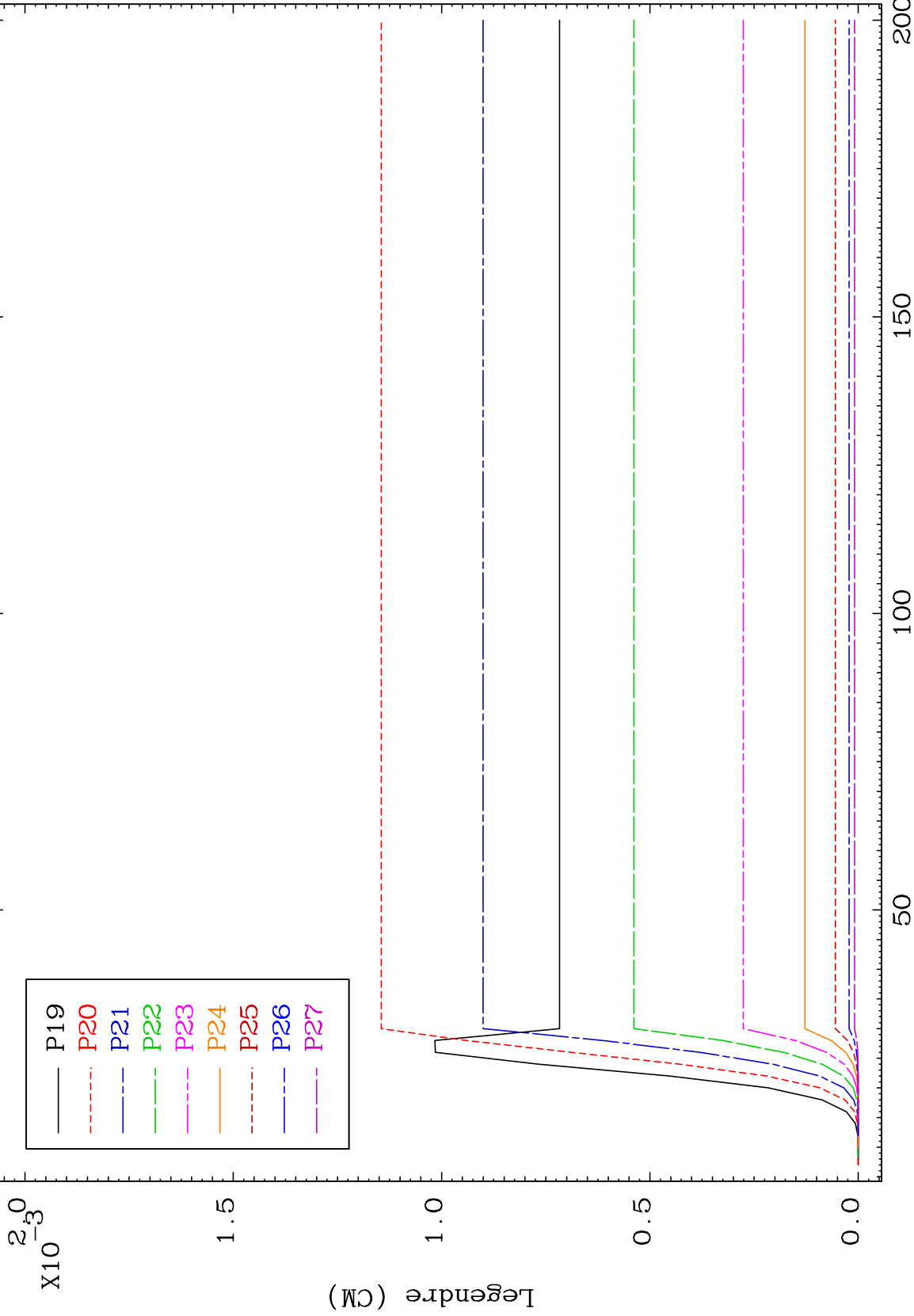


83 62-Sm-139

MAT 6210

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

62-Sm-139



84

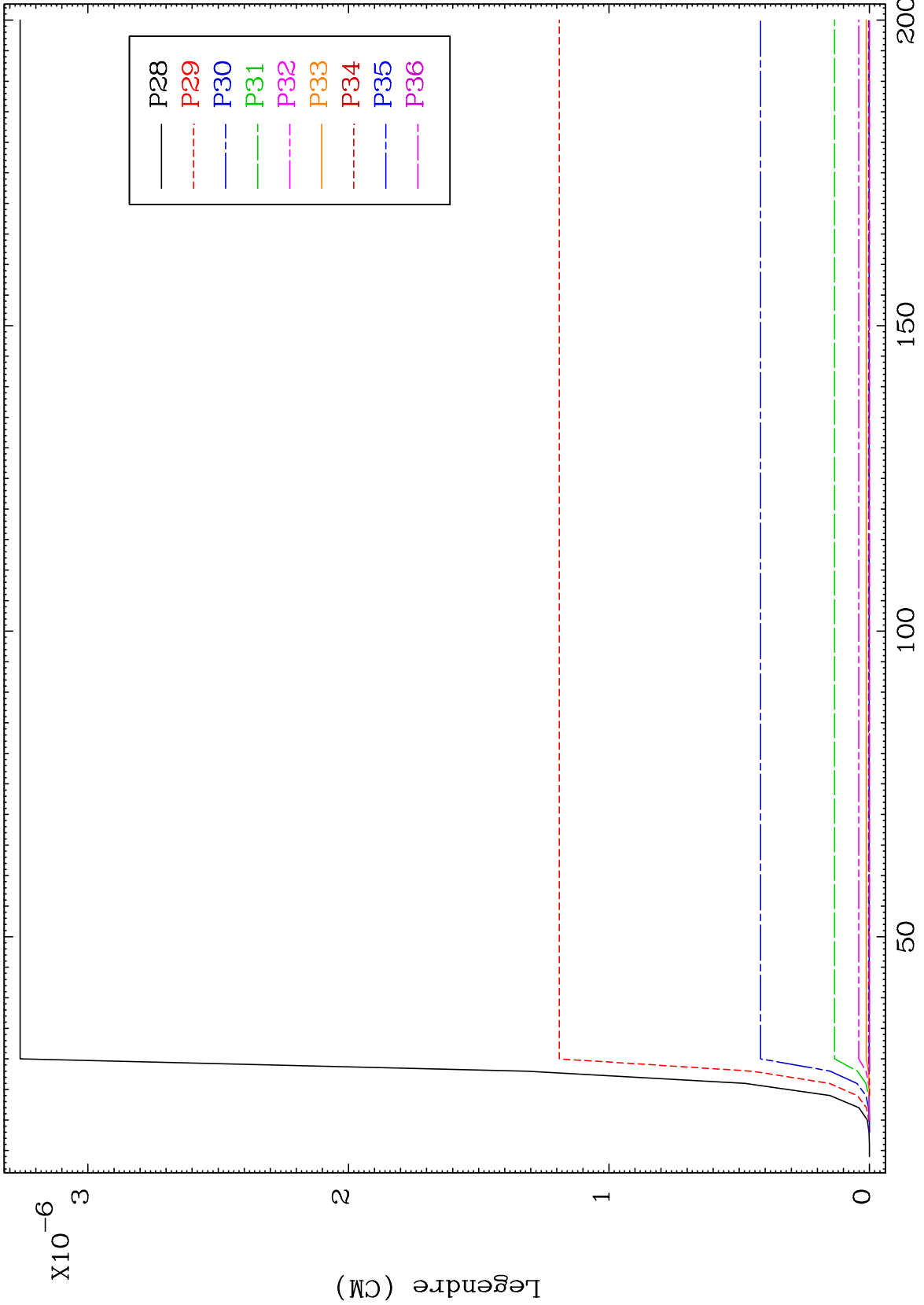
Incident Energy (MeV)

62-Sm-139

MAT 6210

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

62-Sm-139



85

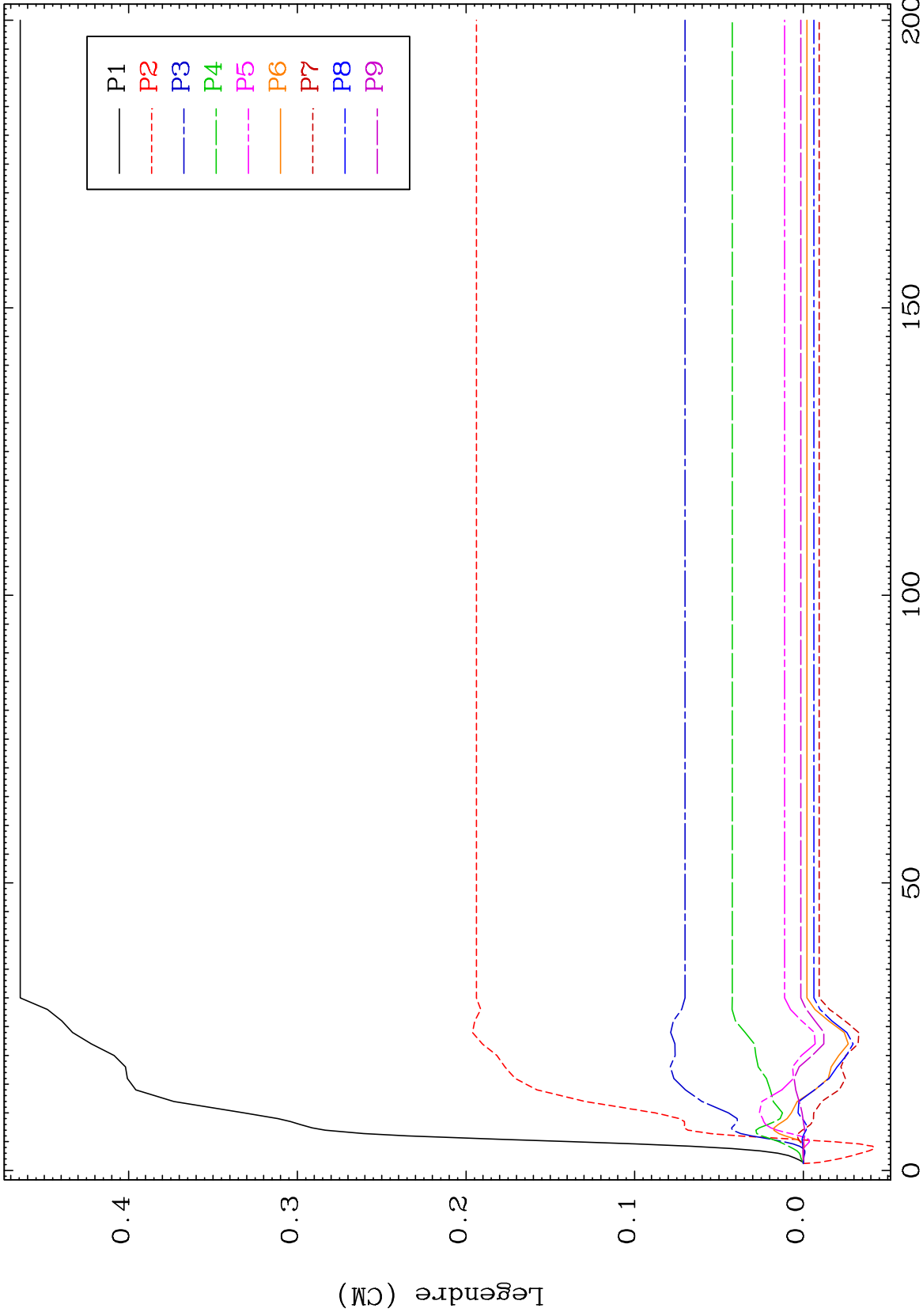
Incident Energy (MeV)

62-Sm-139

MAT 6210

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

62-Sm-139



86

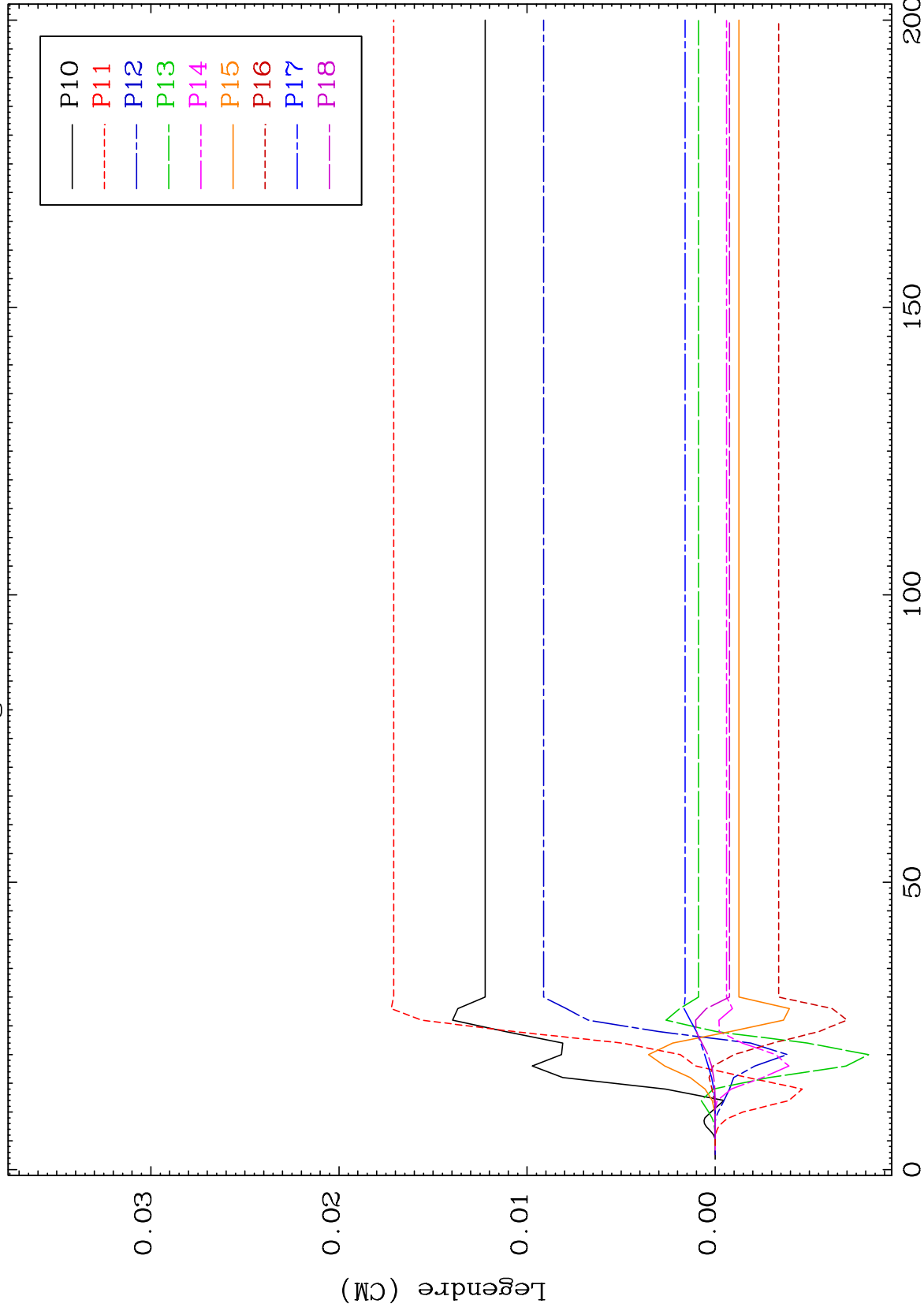
Incident Energy (MeV)

62-Sm-139

MAT 6210

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

62-Sm-139



87

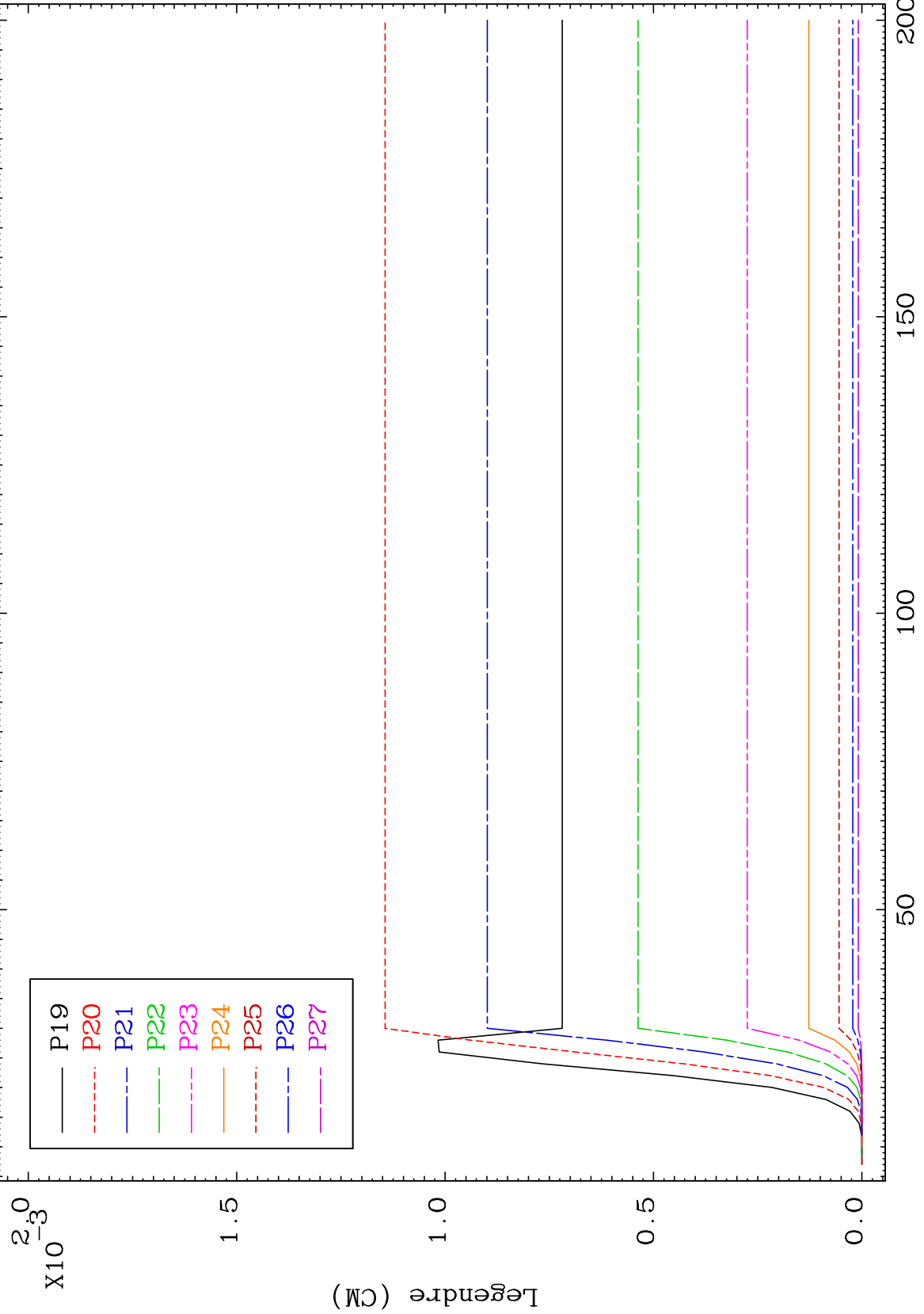
Incident Energy (MeV)

62-Sm-139

MAT 6210

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

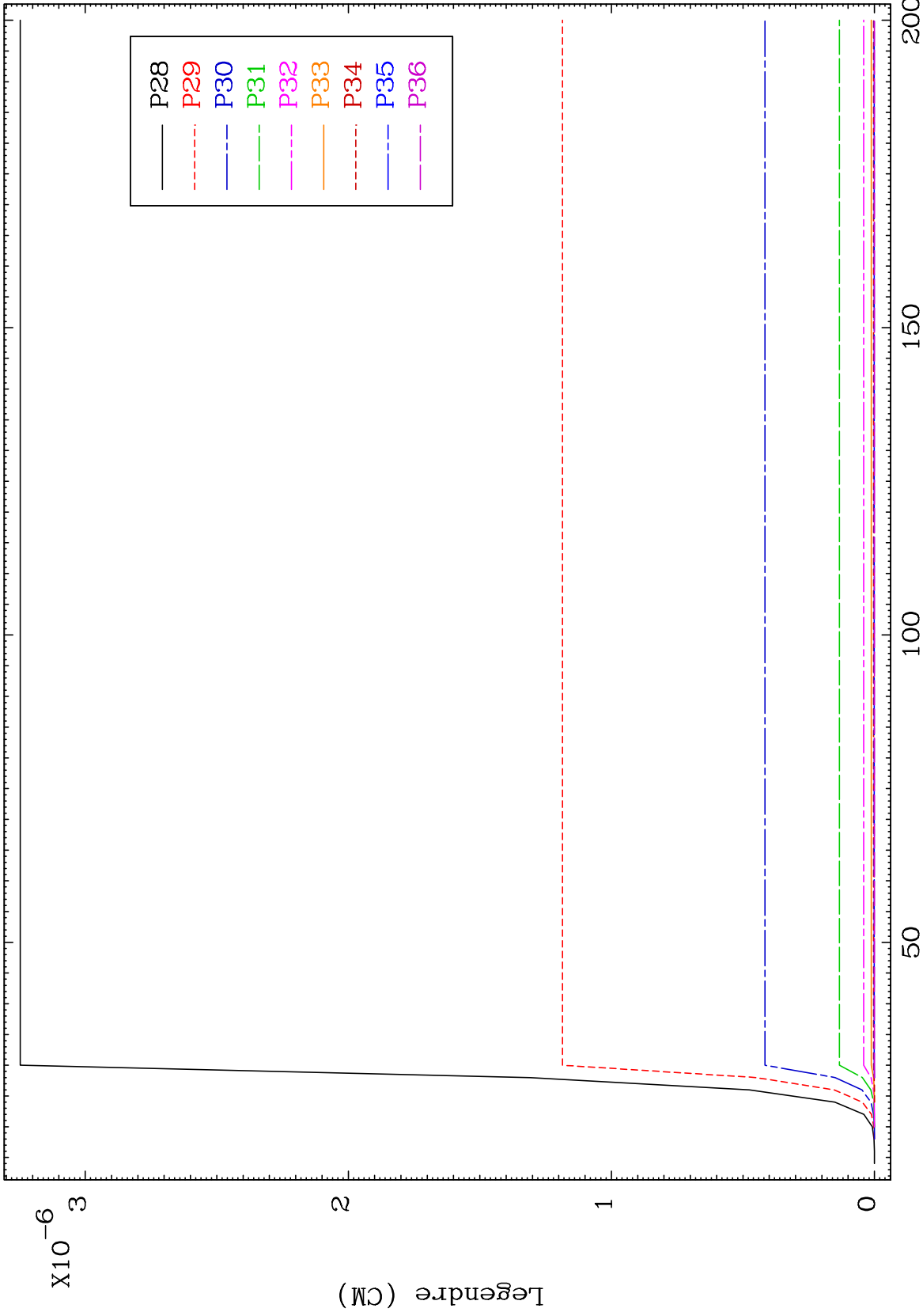
62-Sm-139



MAT 6210

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

62-Sm-139



89

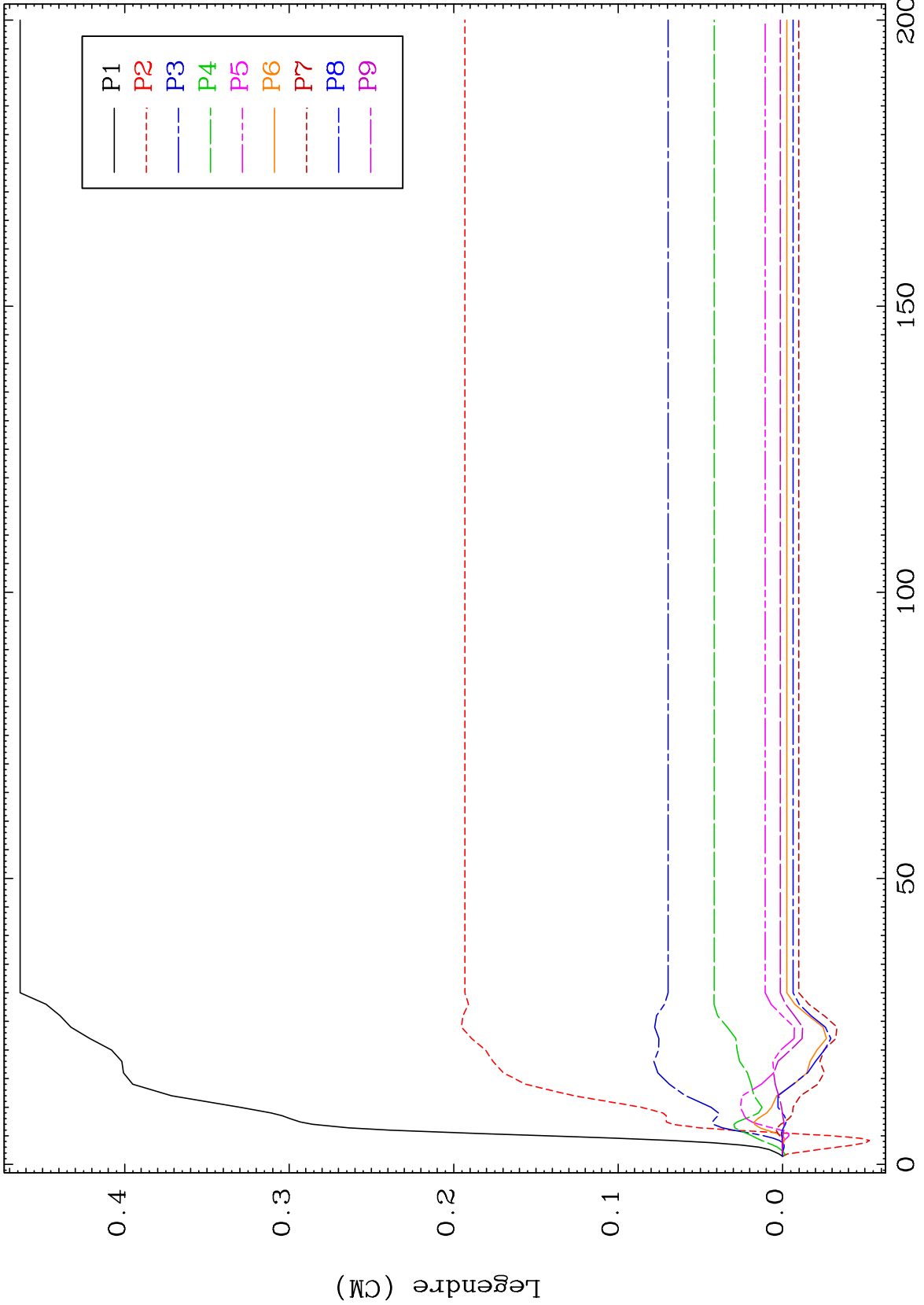
Incident Energy (MeV)

62-Sm-139

MAT 6210

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

62-Sm-139



90

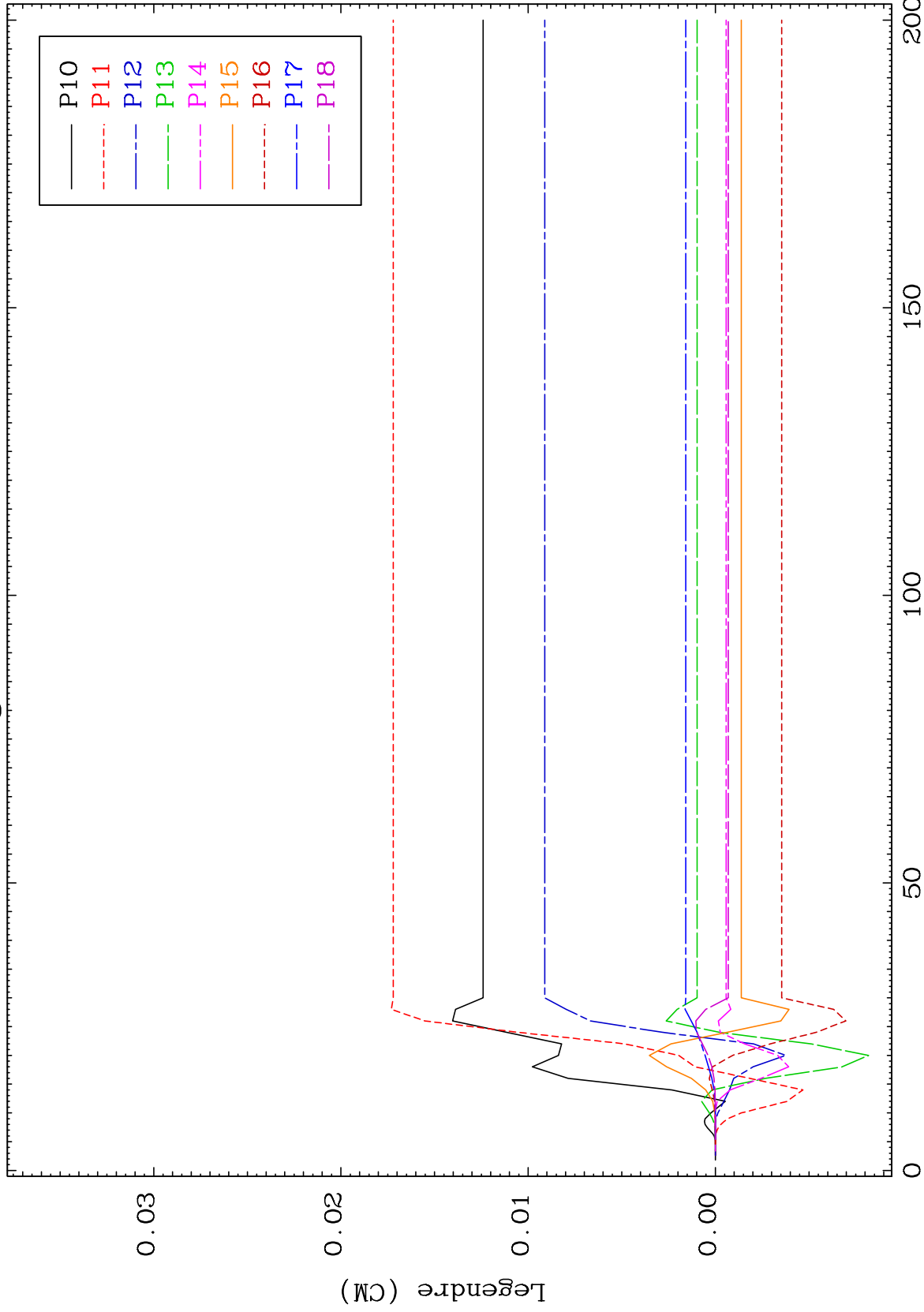
Incident Energy (MeV)

62-Sm-139

MAT 6210

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

62-Sm-139



91

Incident Energy (MeV)

62-Sm-139

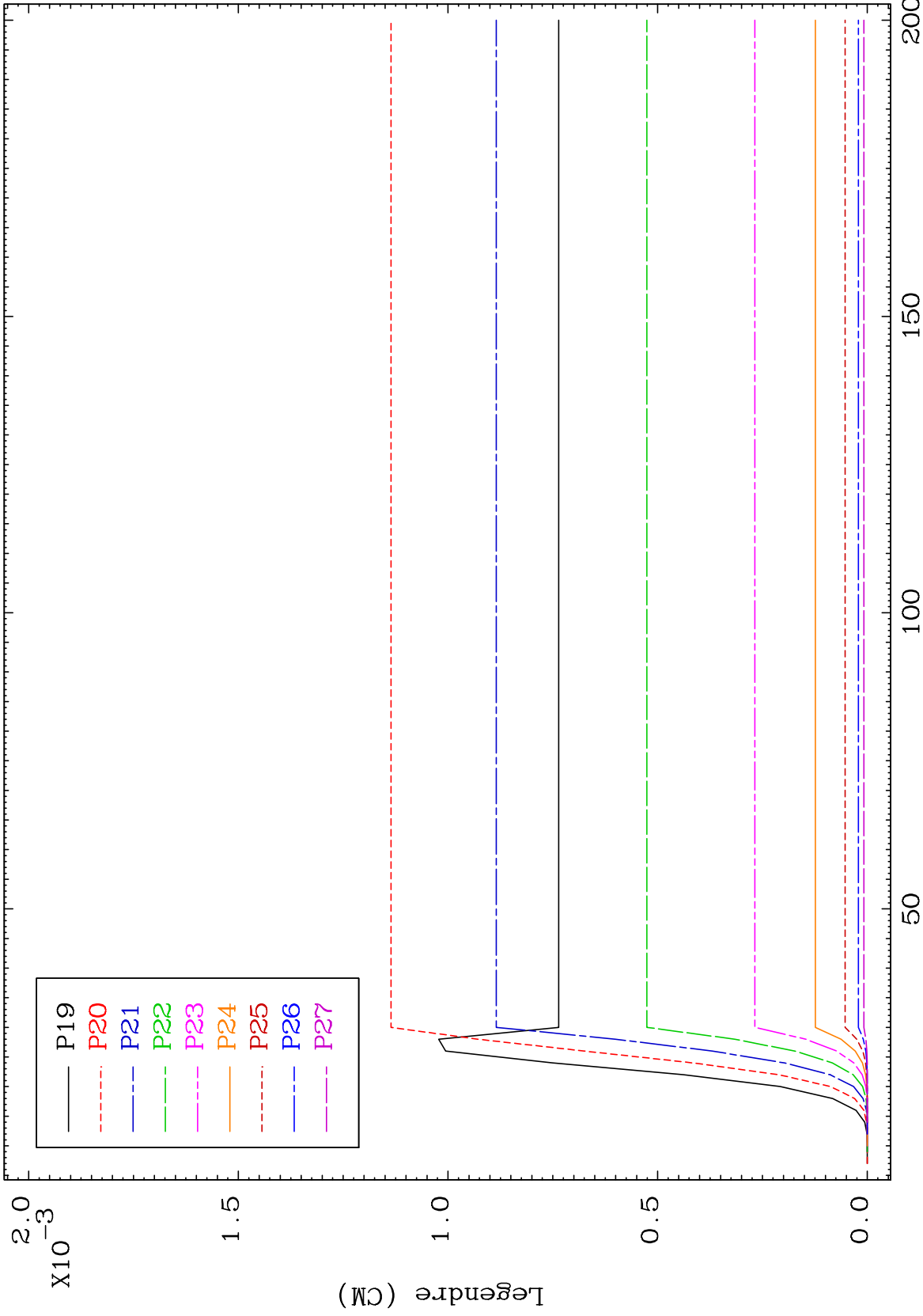
MAT 6210

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

62-Sm-139

Incident Energy (MeV)

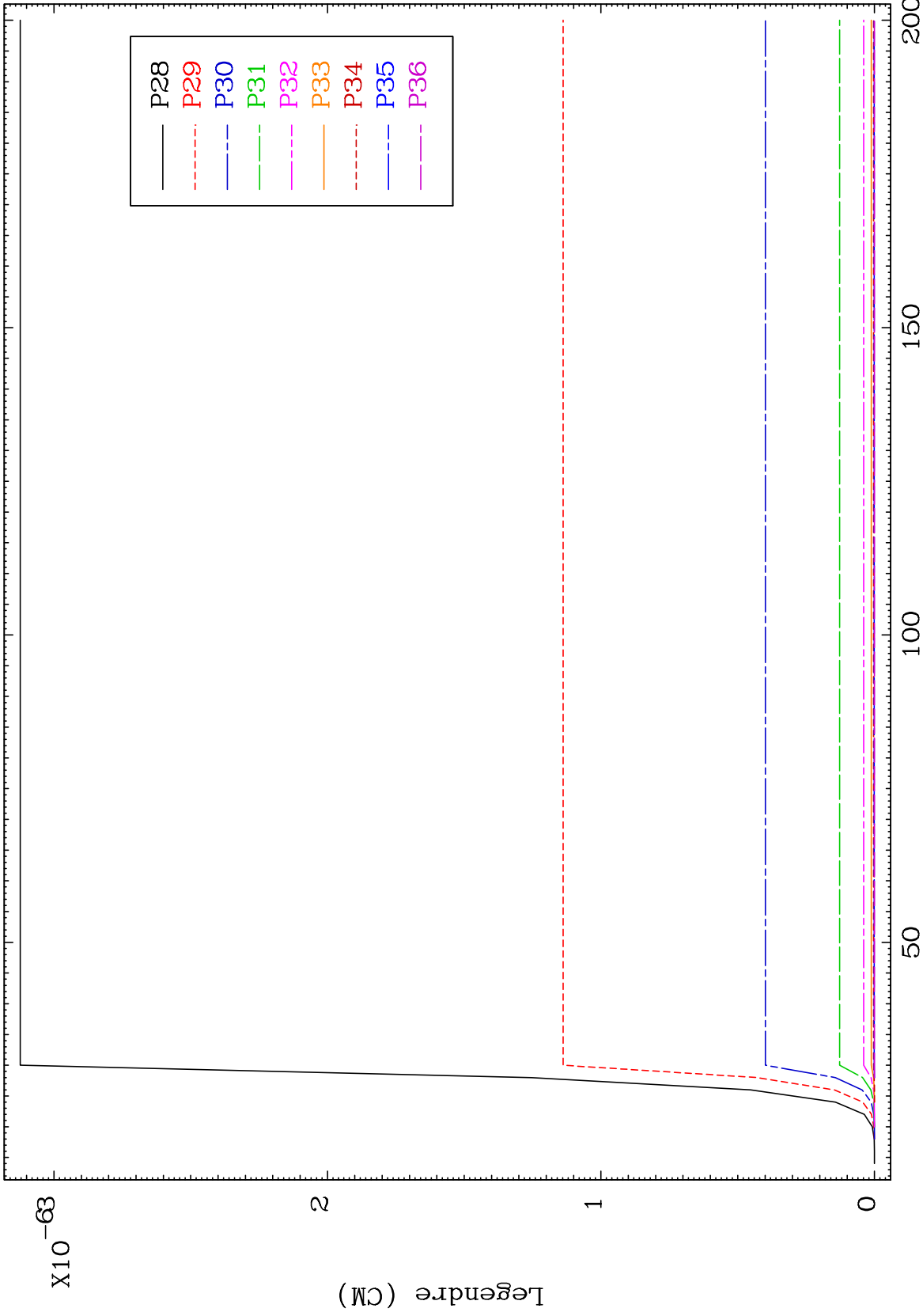
92



MAT 6210

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

62-Sm-139



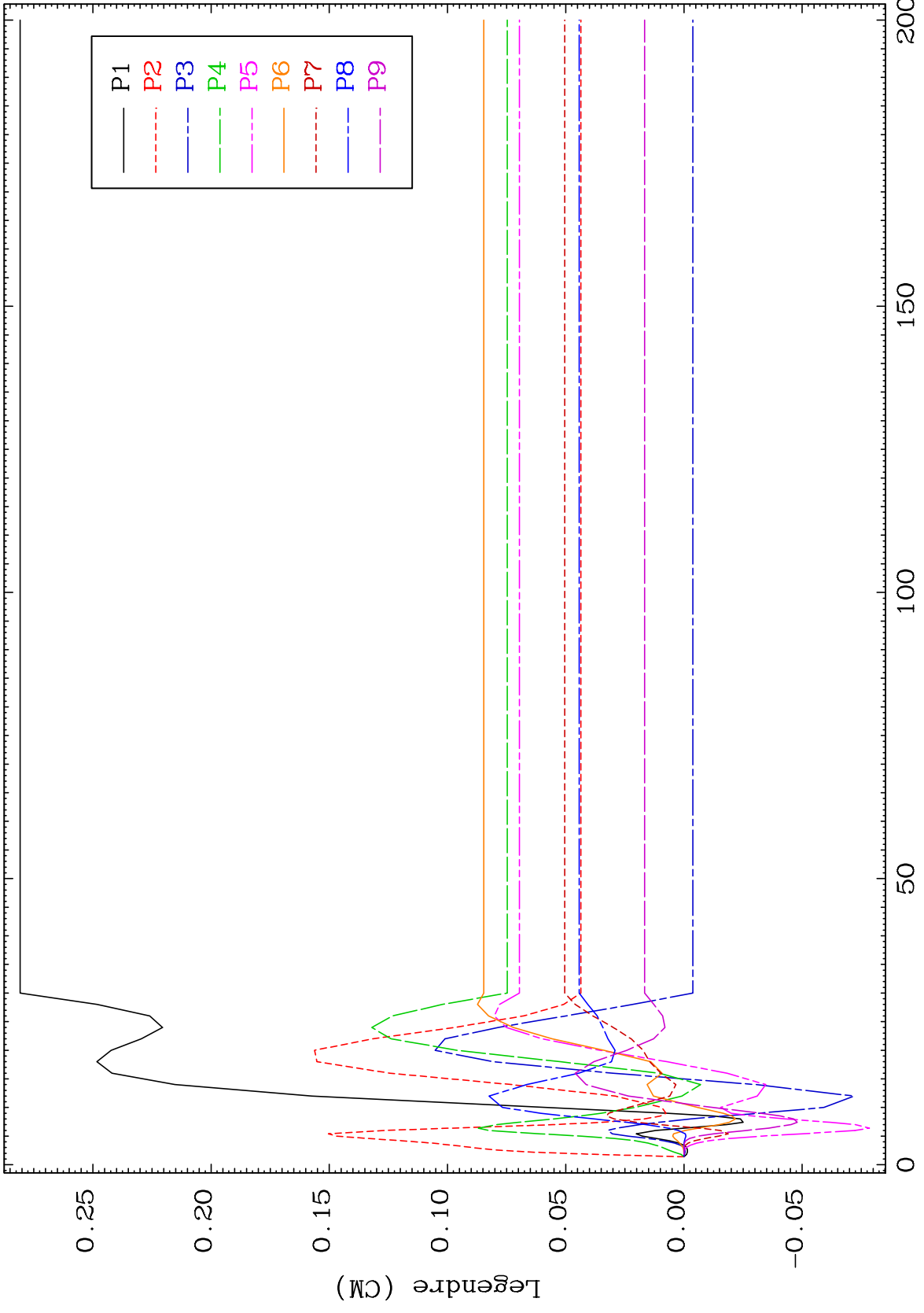
93

62-Sm-139

MAT 6210

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

62-Sm-139



94

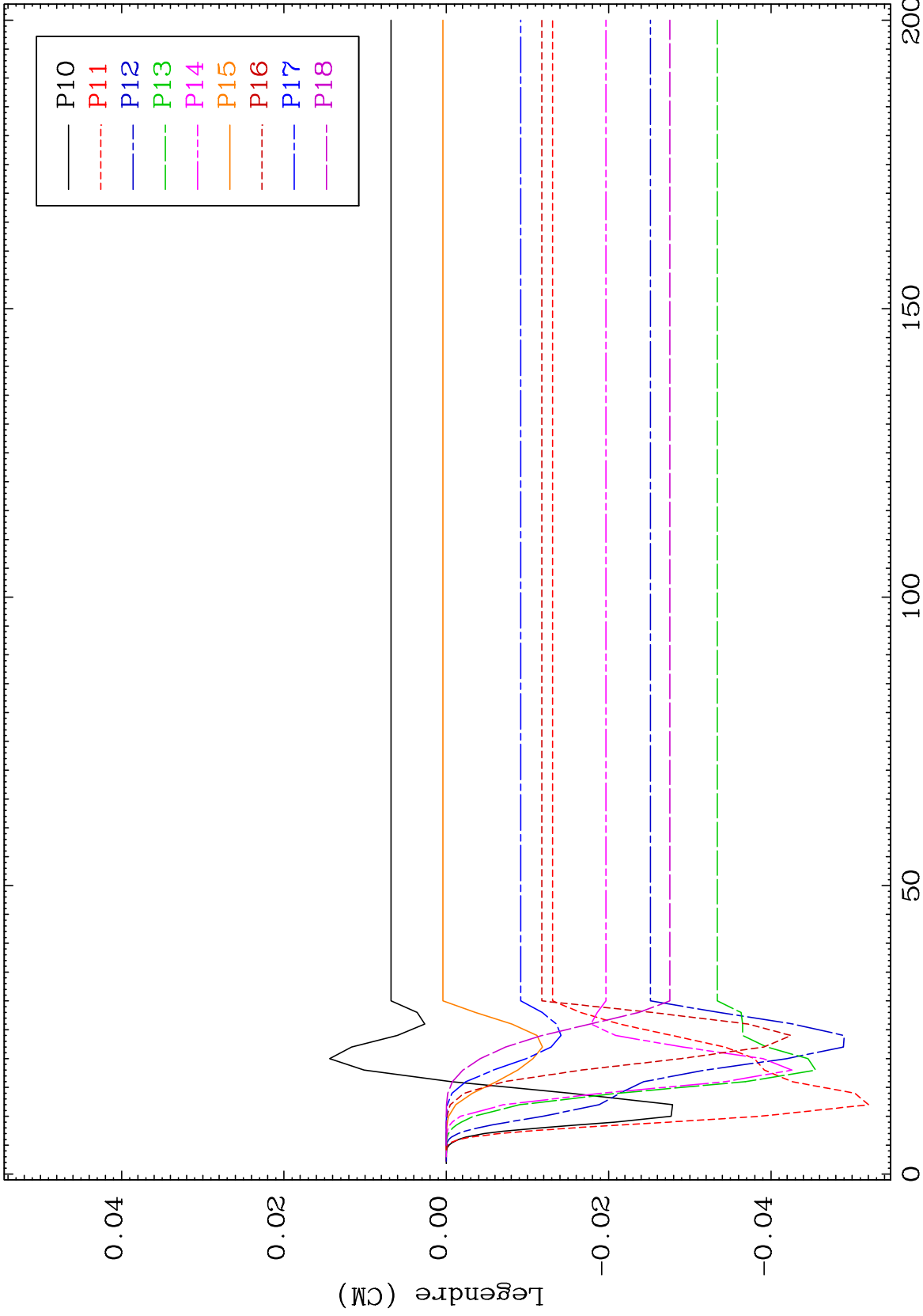
Incident Energy (MeV)

62-Sm-139

MAT 6210

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

62-Sm-139



95

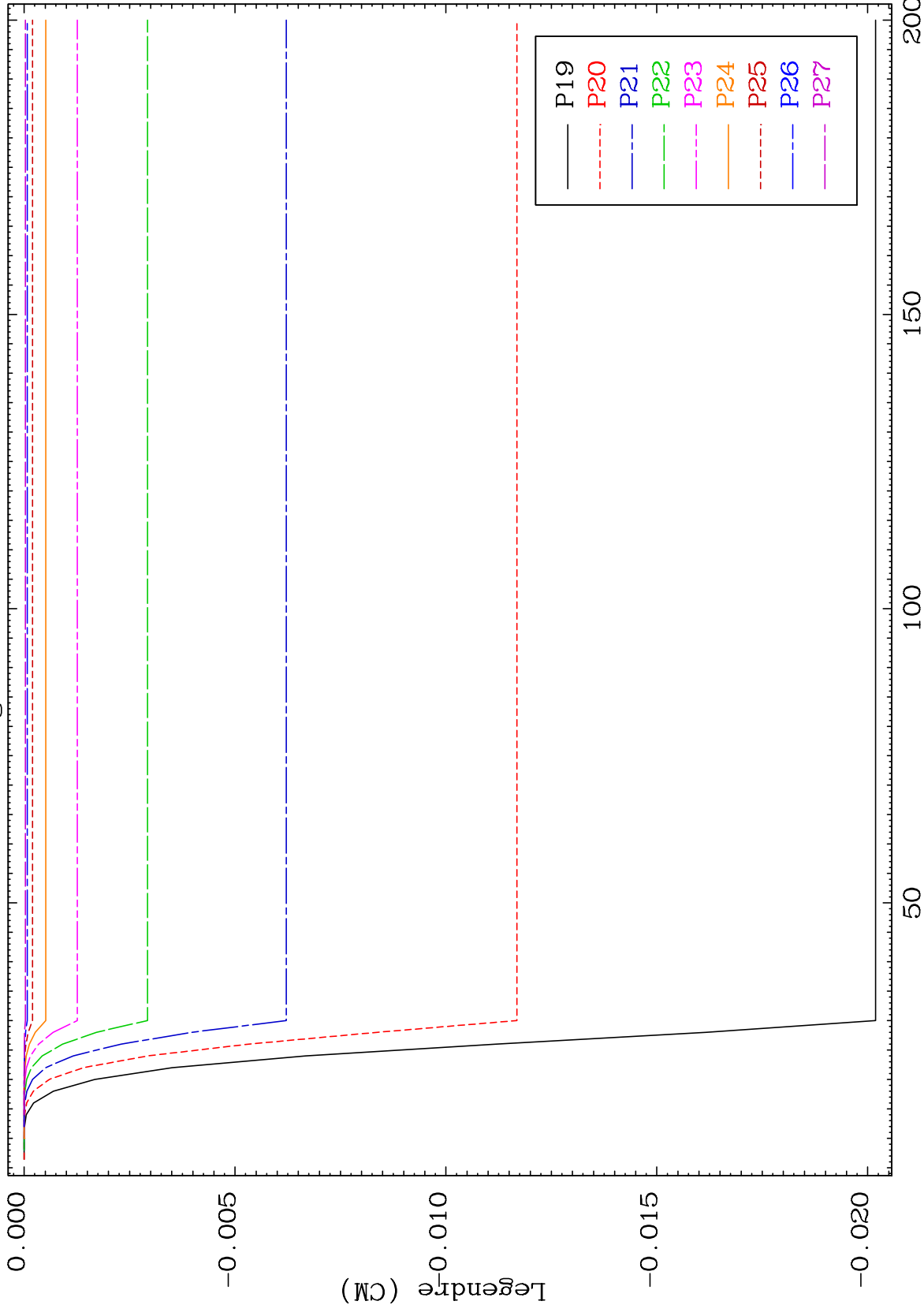
Incident Energy (MeV)

62-Sm-139

MAT 6210

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

62-Sm-139



62-Sm-139

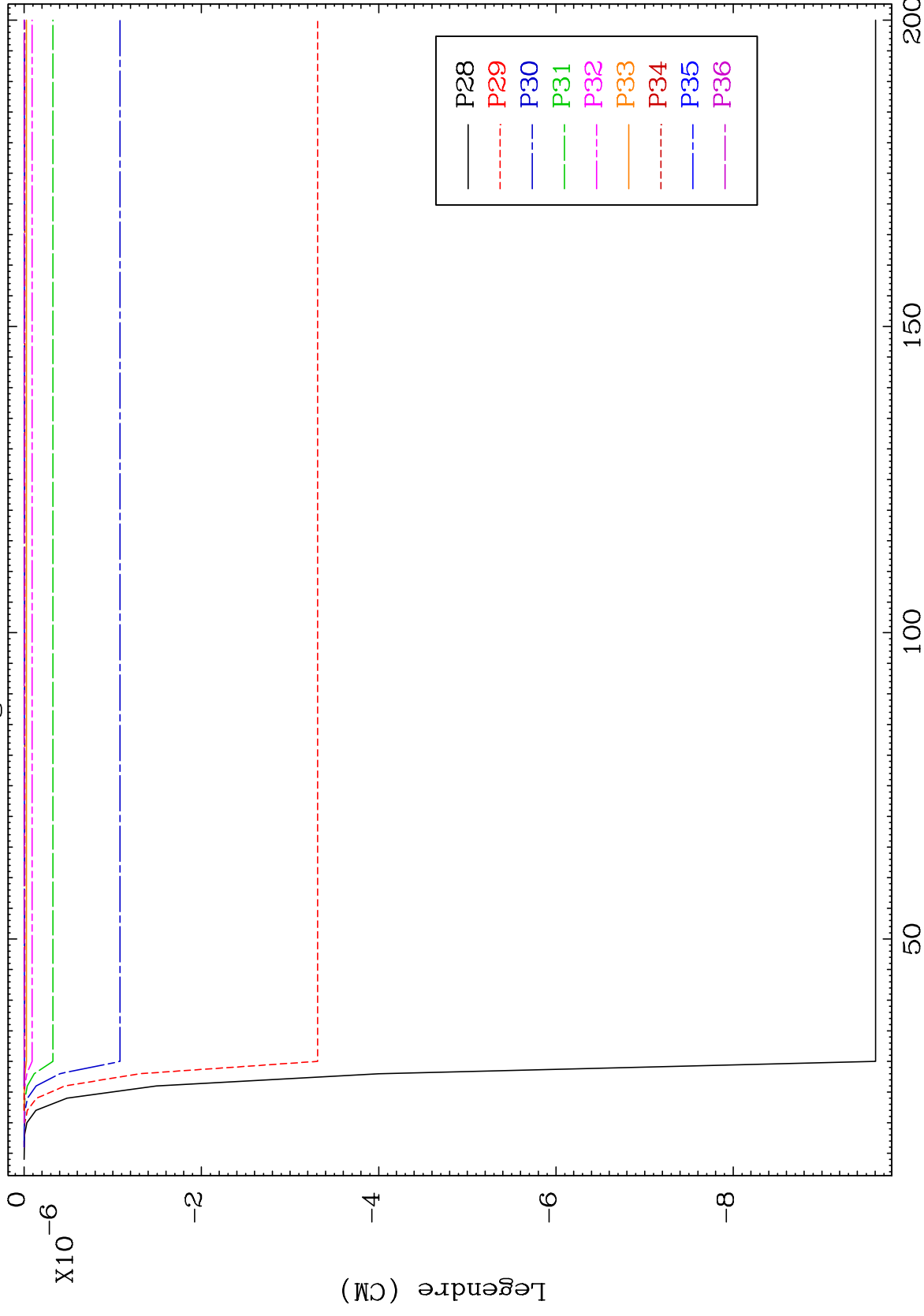
Incident Energy (MeV)

96

MAT 6210

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

62-Sm-139



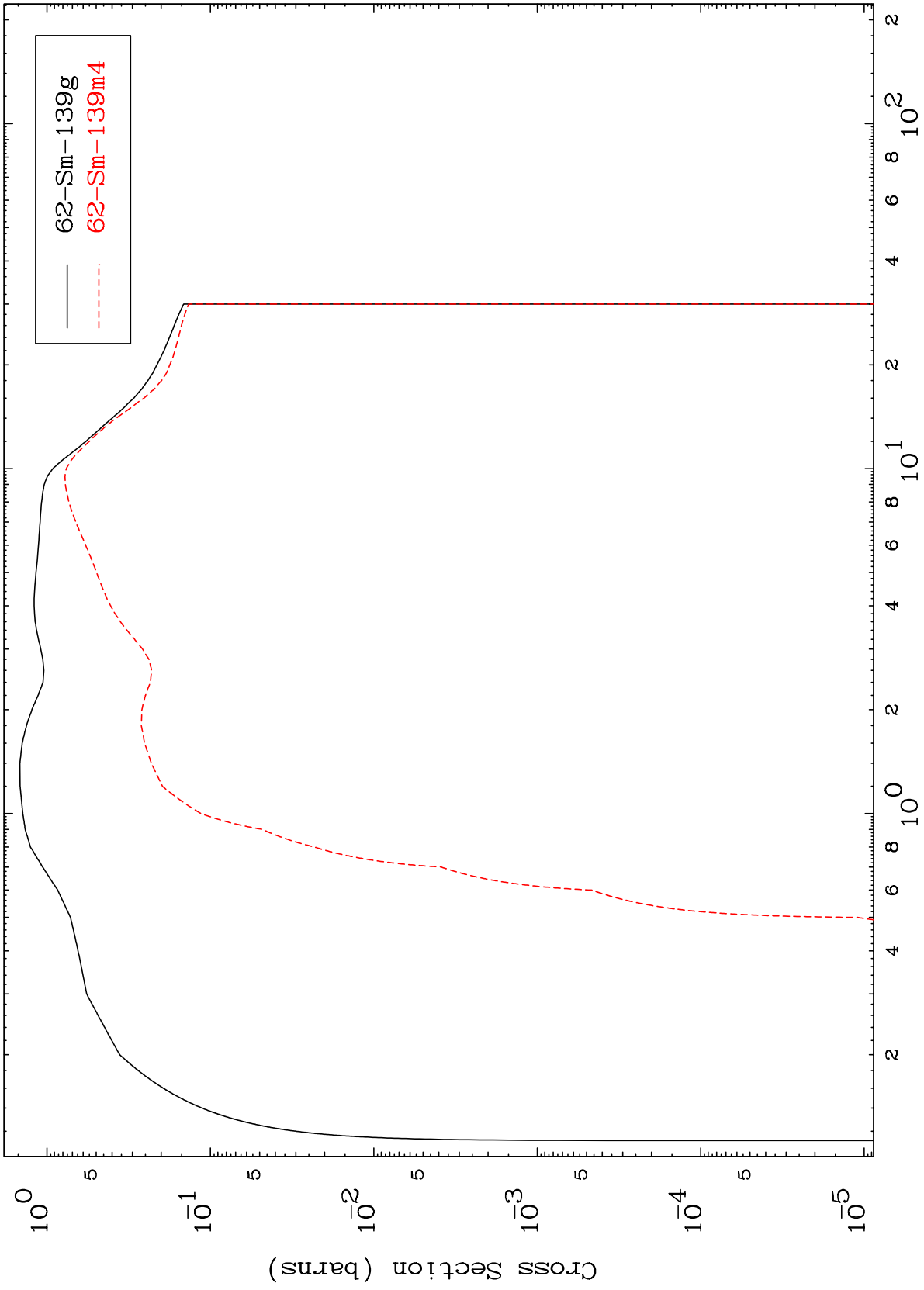
62-Sm-139

97

MAT 6210

62-Sm-139

Inelastic Radionuclide Production Cross Section



98

Incident Energy (MeV)

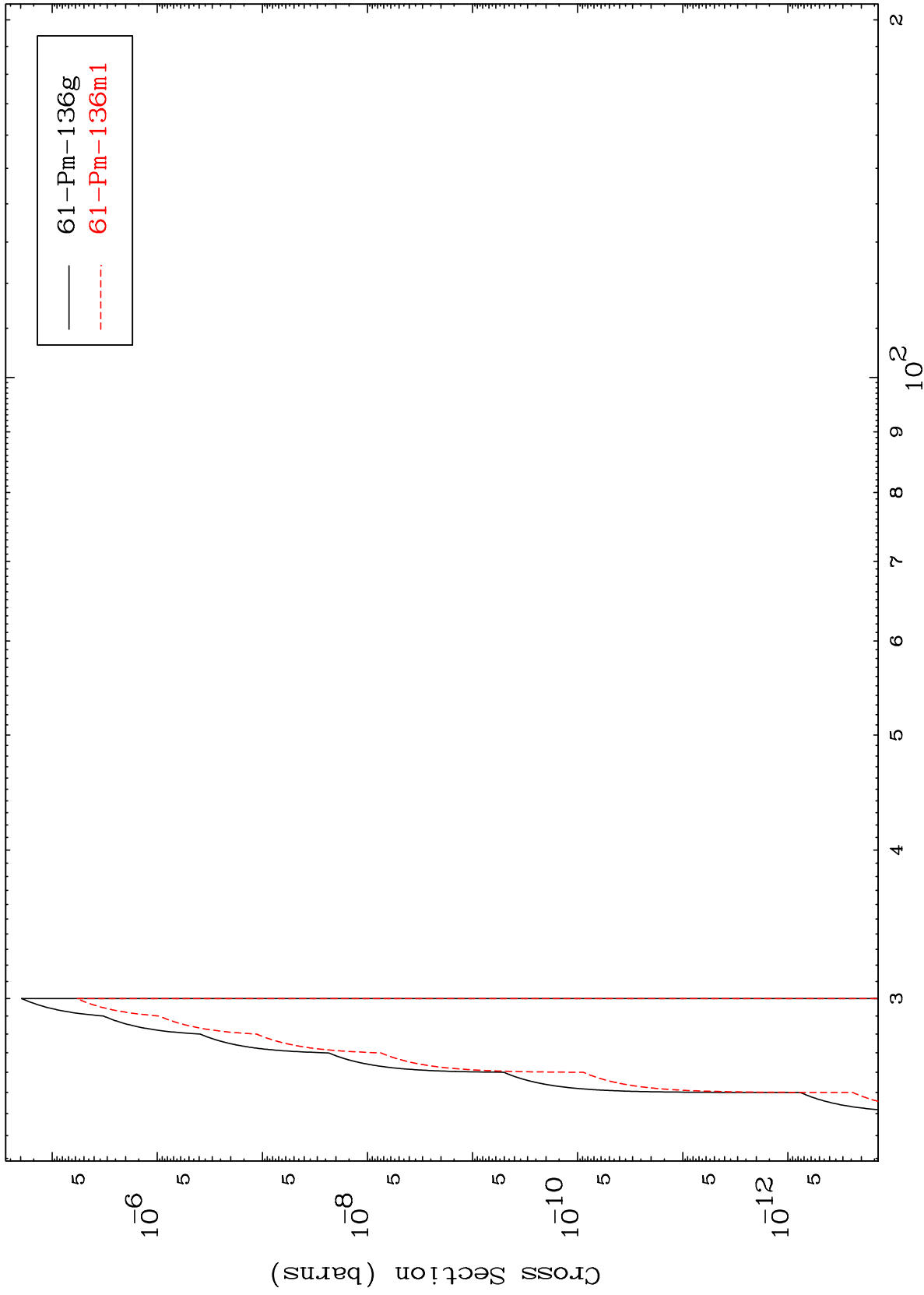
62-Sm-139

MAT 6210

(n,2n) d

62-Sm-139

Radionuclide Production Cross Section



99

Incident Energy (MeV)

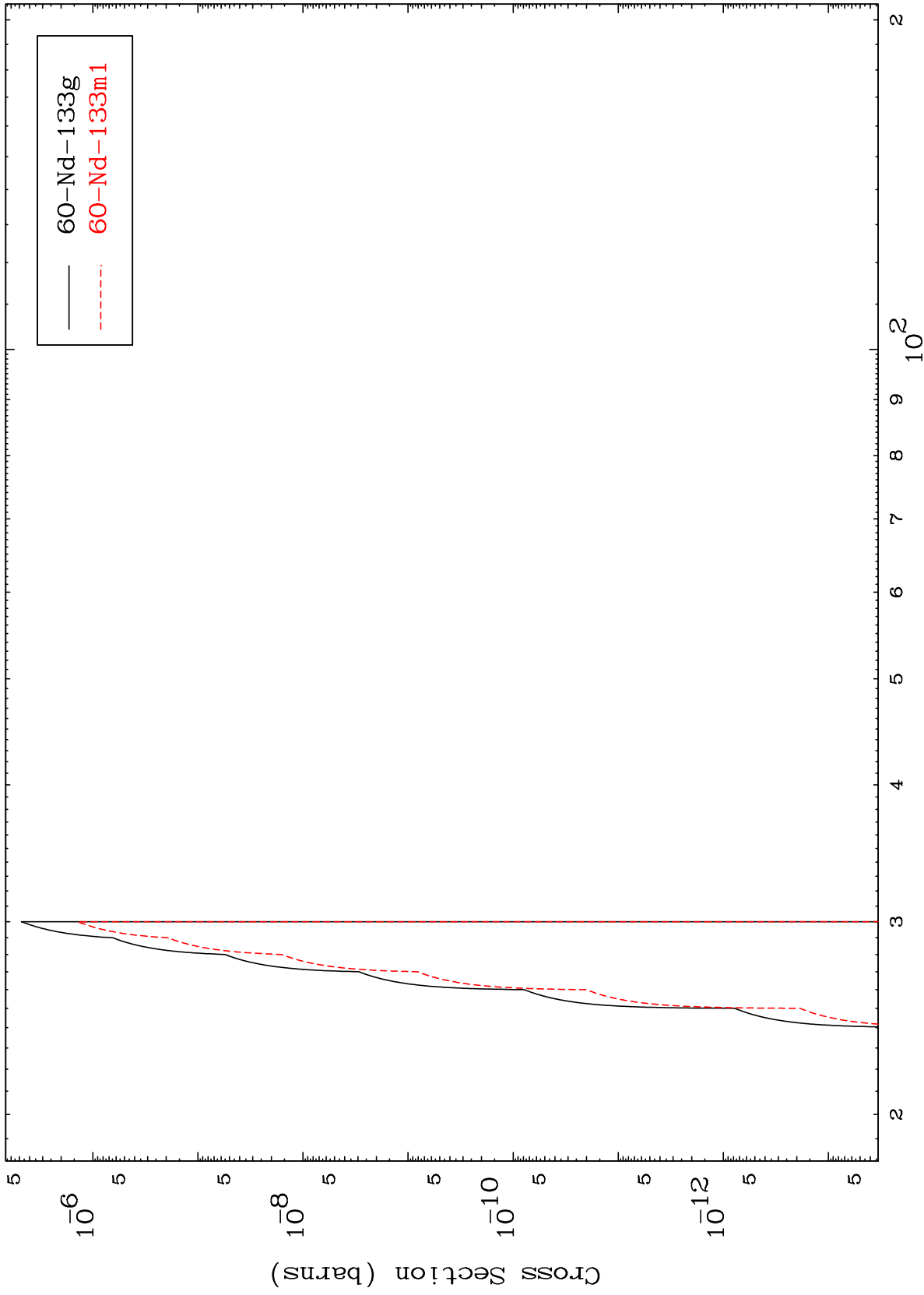
62-Sm-139

MAT 6210

(n,3n) α

62-Sm-139

Radionuclide Production Cross Section



100

Incident Energy (MeV)

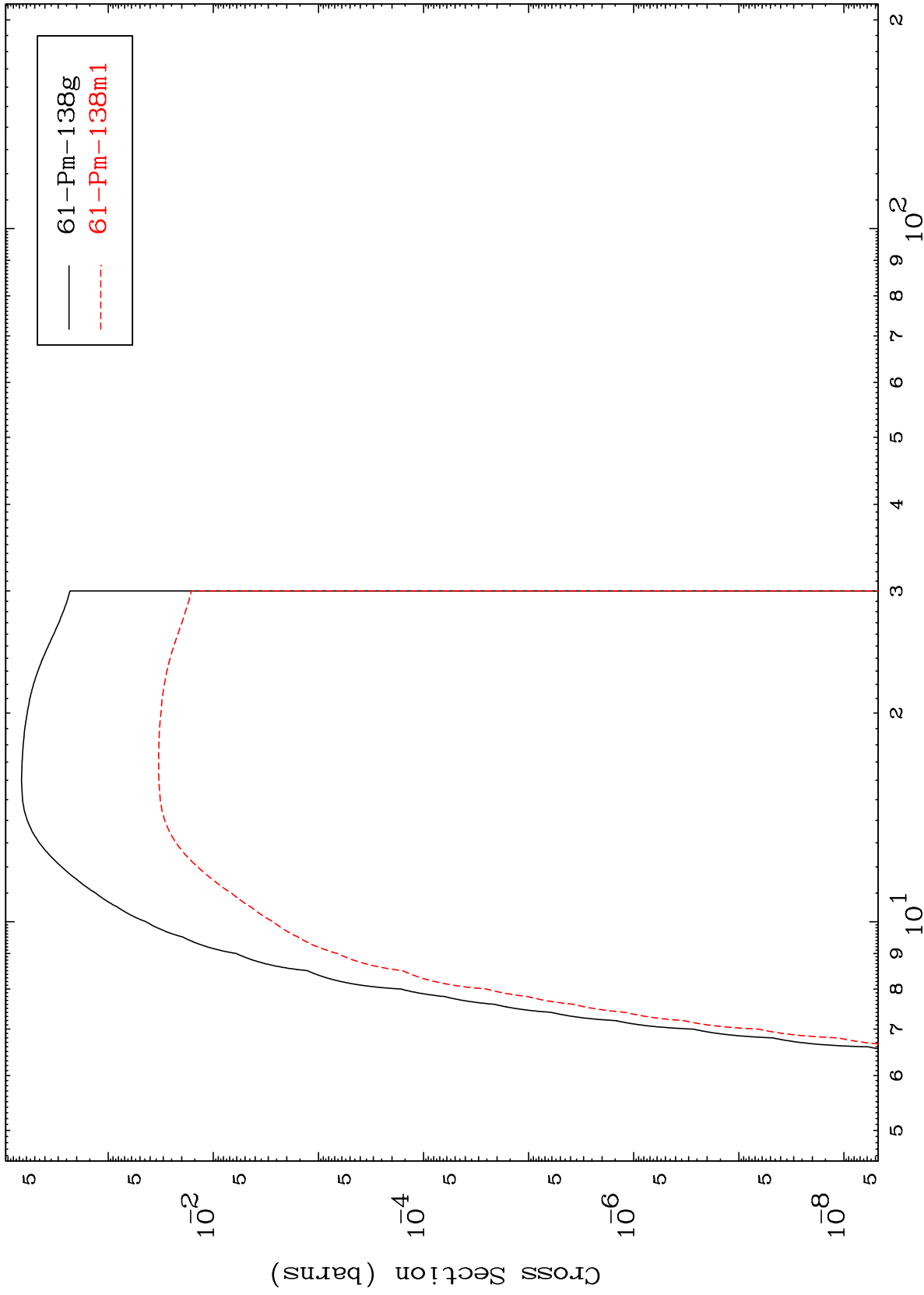
62-Sm-139

MAT 6210

(n,n') p

62-Sm-139

Radionuclide Production Cross Section



101

Incident Energy (MeV)

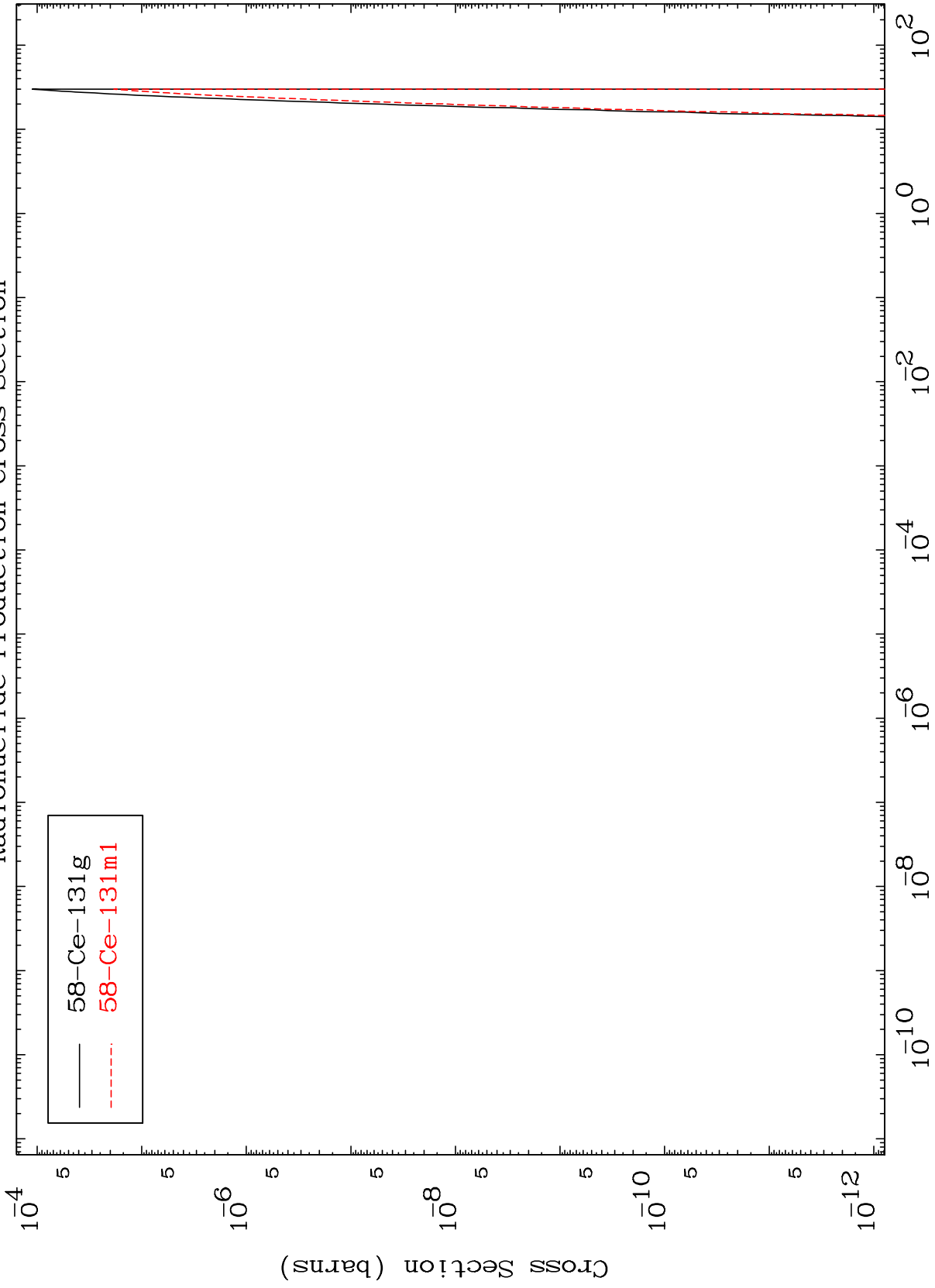
62-Sm-139

MAT 6210

(n,n') 2 α

62-Sm-139

Radionuclide Production Cross Section



102

Incident Energy (MeV)

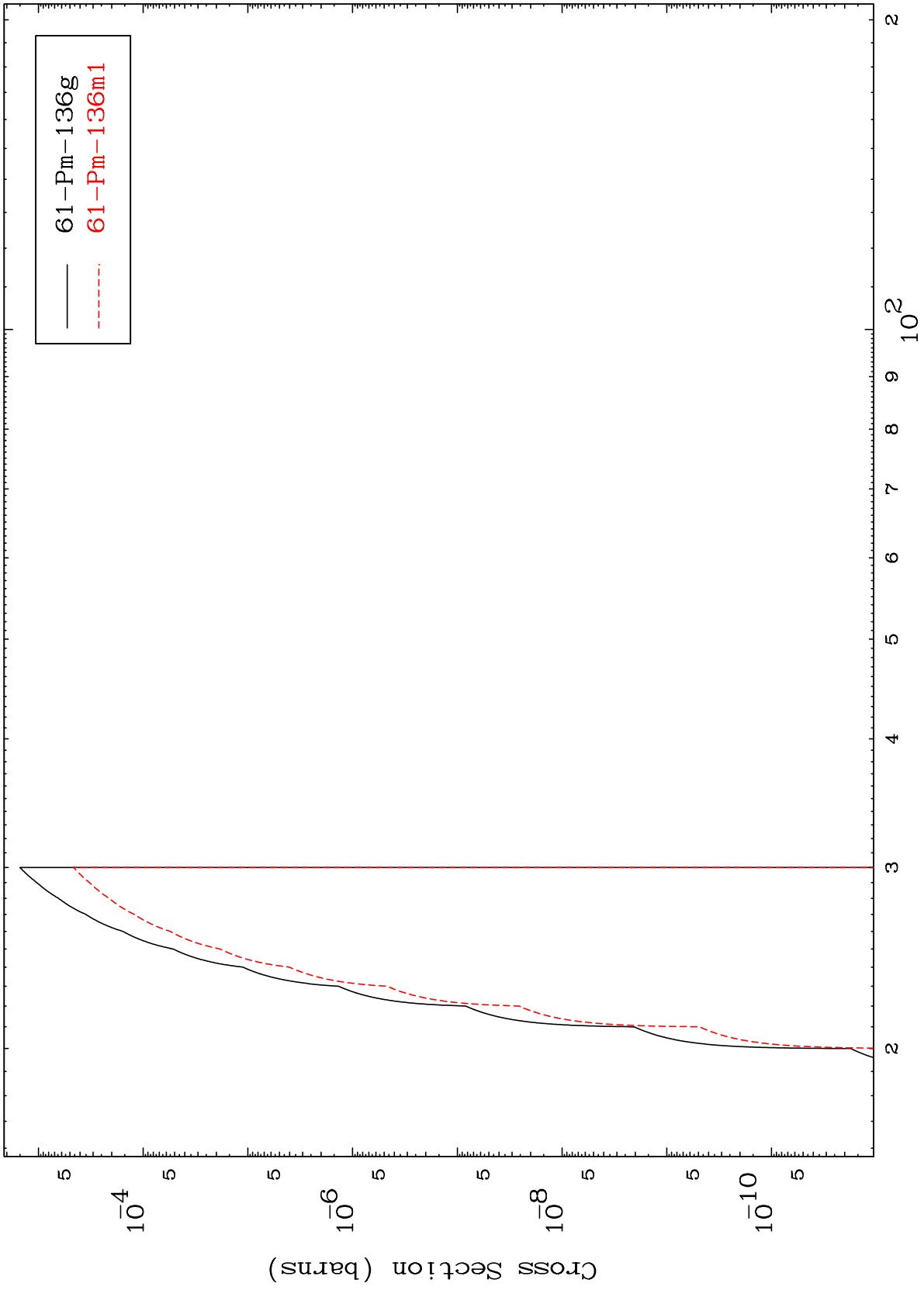
62-Sm-139

MAT 6210

(n,n') t

62-Sm-139

Radionuclide Production Cross Section



103

Incident Energy (MeV)

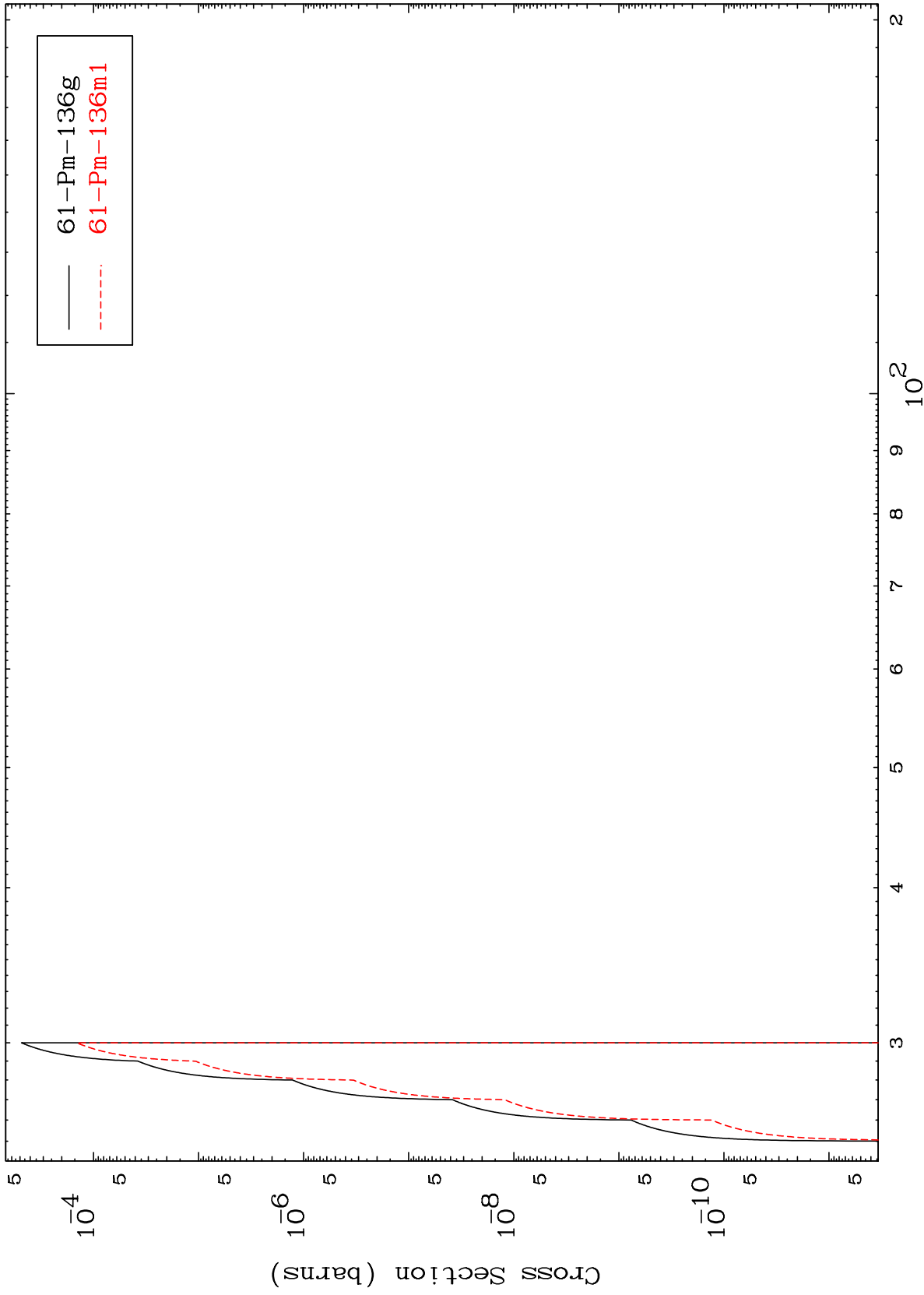
62-Sm-139

MAT 6210

(n,3n) p

62-Sm-139

Radionuclide Production Cross Section



104

Incident Energy (MeV)

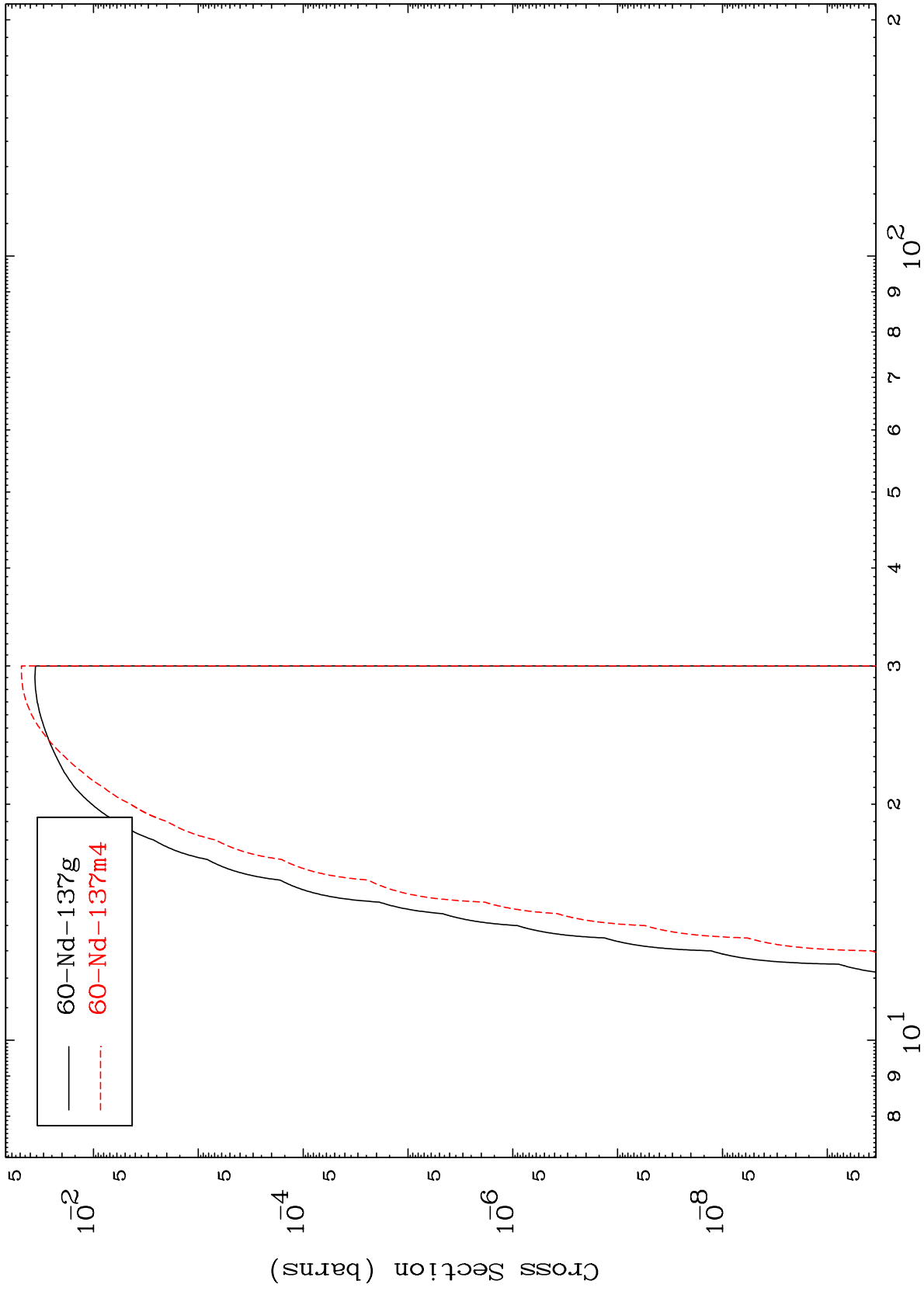
62-Sm-139

MAT 6210

(n,2n) p

62-Sm-139

Radionuclide Production Cross Section



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

105

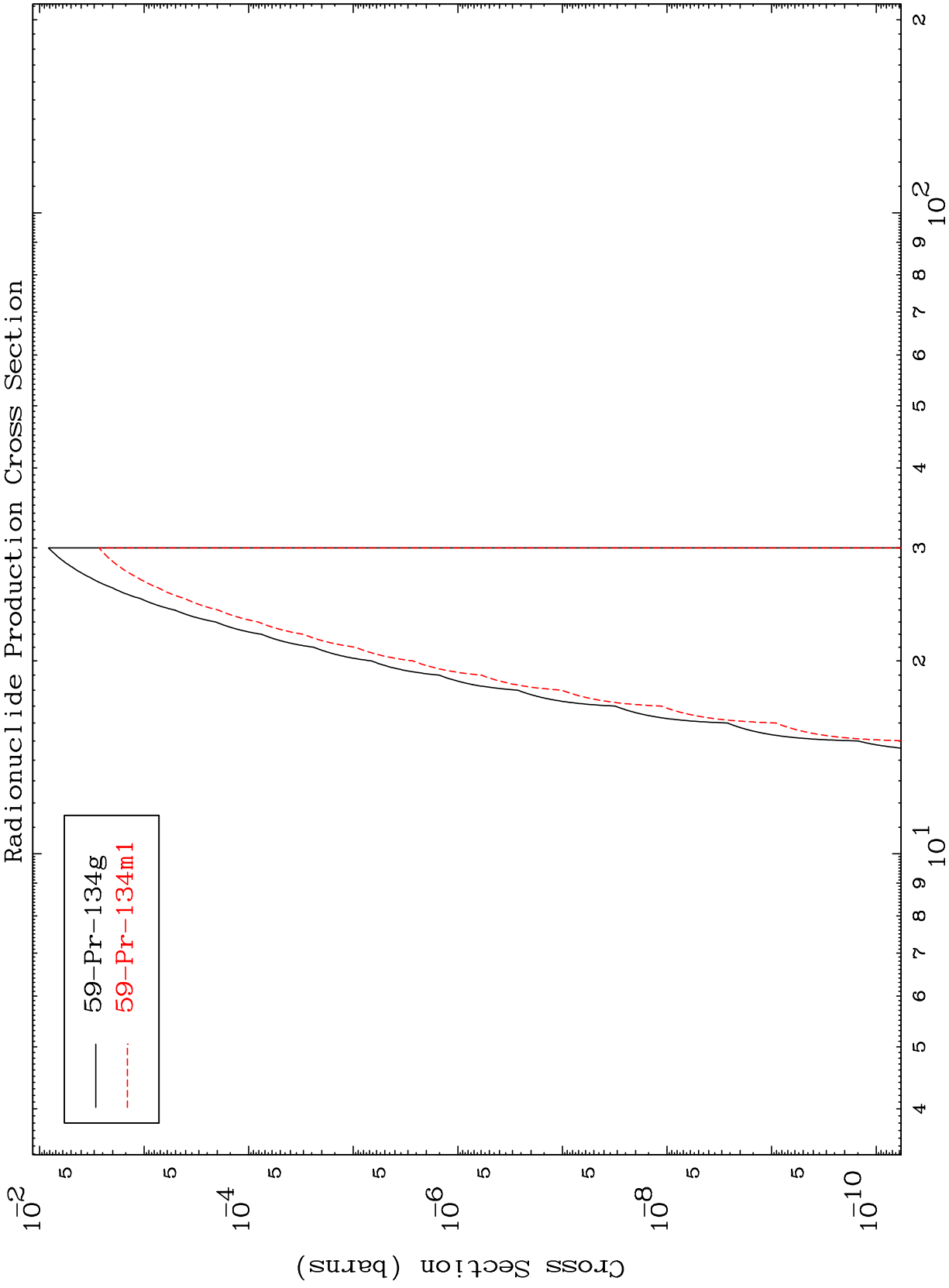
Incident Energy (MeV)

62-Sm-139

MAT 6210

62-Sm-139

(n,n') p α
Radionuclide Production Cross Section



106

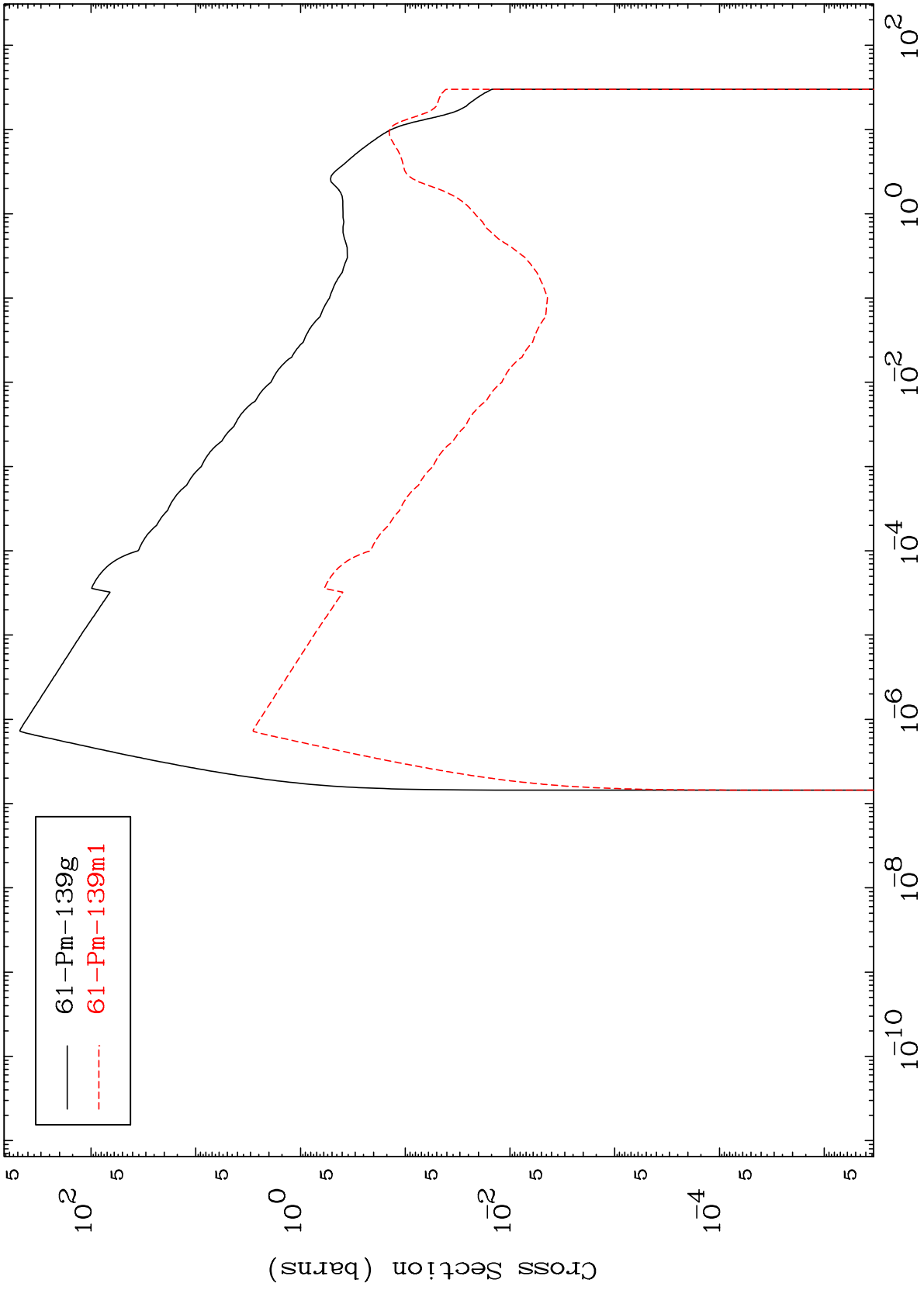
Incident Energy (MeV)

62-Sm-139

MAT 6210

Radionuclide Production Cross Section
(n,p)

⁶²Sm-139



107

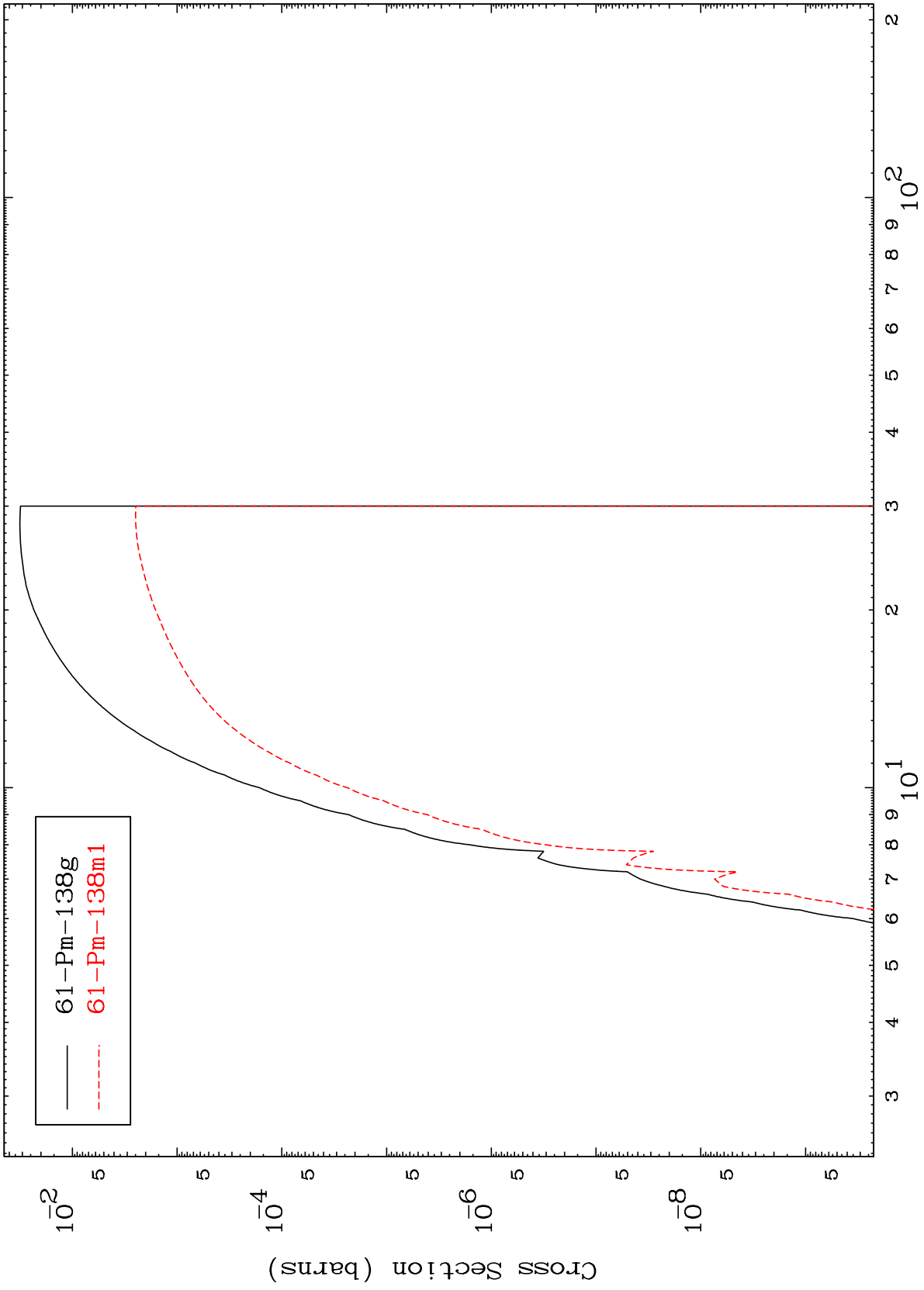
Incident Energy (MeV)

⁶²Sm-139

MAT 6210

(n,d)
Radionuclide Production Cross Section

62-Sm-139



61-Pm-138g
61-Pm-138m1

108

Incident Energy (MeV)

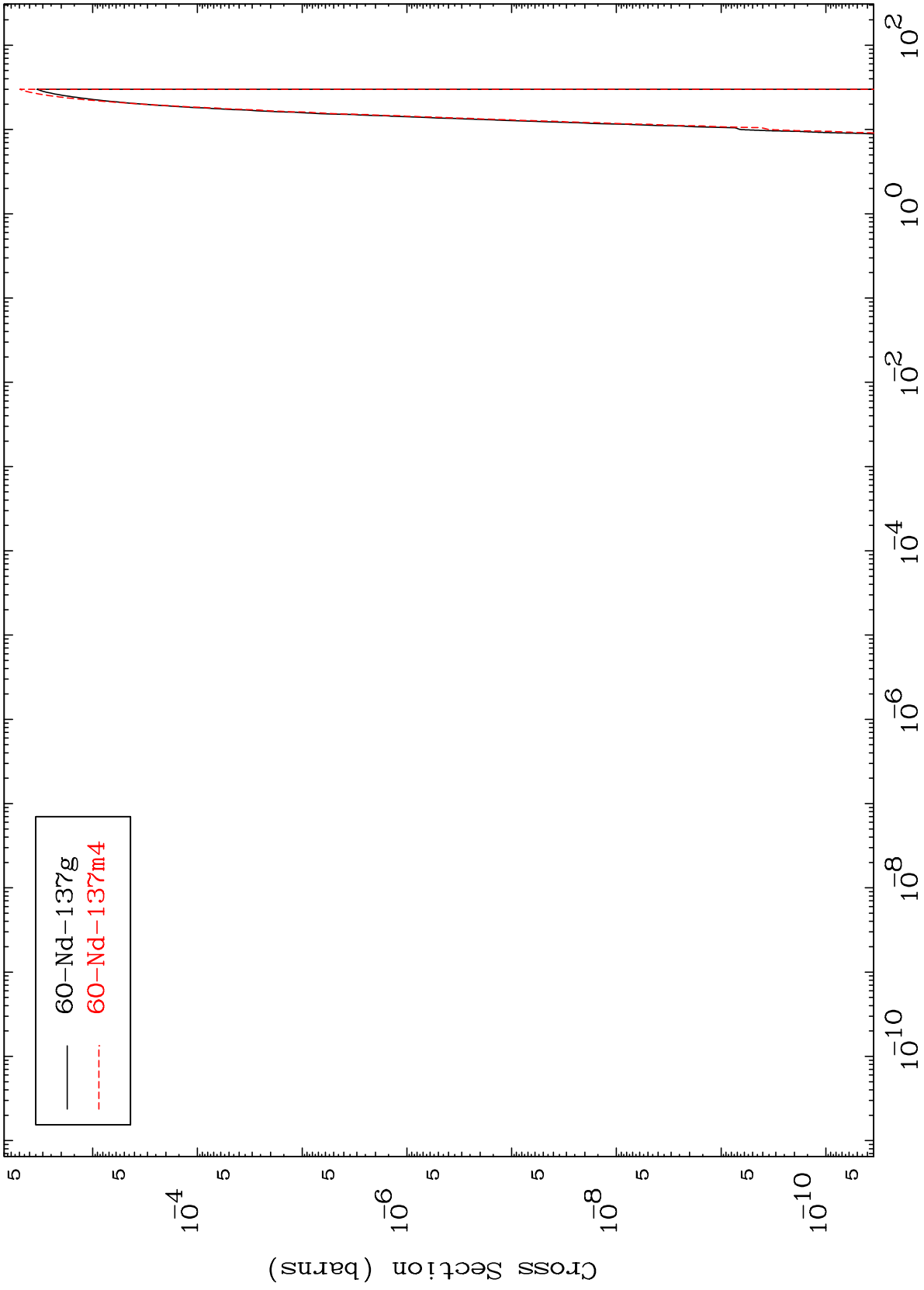
62-Sm-139

MAT 6210

(n, He-3)

62-Sm-139

Radionuclide Production Cross Section



109

Incident Energy (MeV)

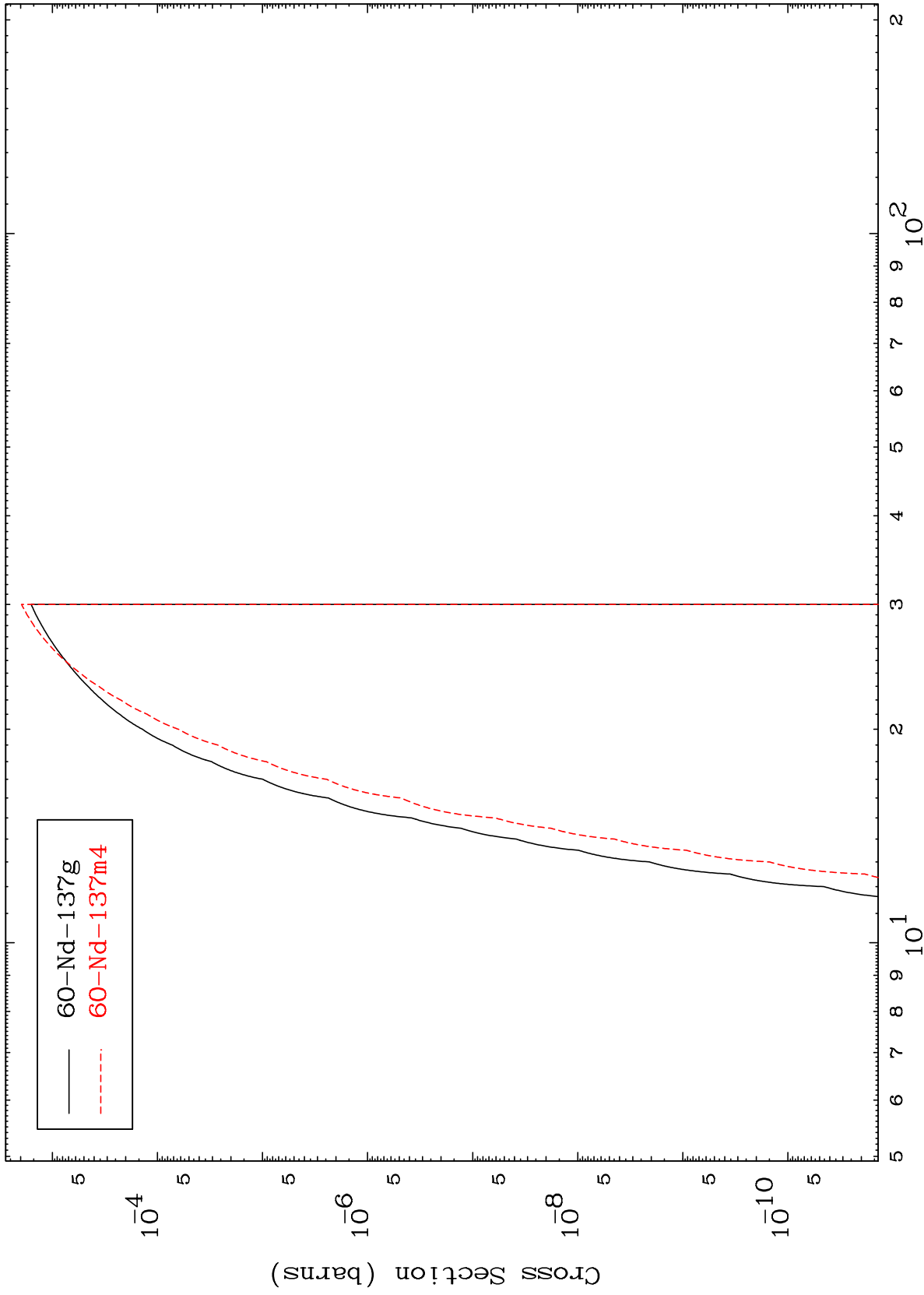
62-Sm-139

MAT 6210

(n,p) d

62-Sm-139

Radionuclide Production Cross Section



110

Incident Energy (MeV)

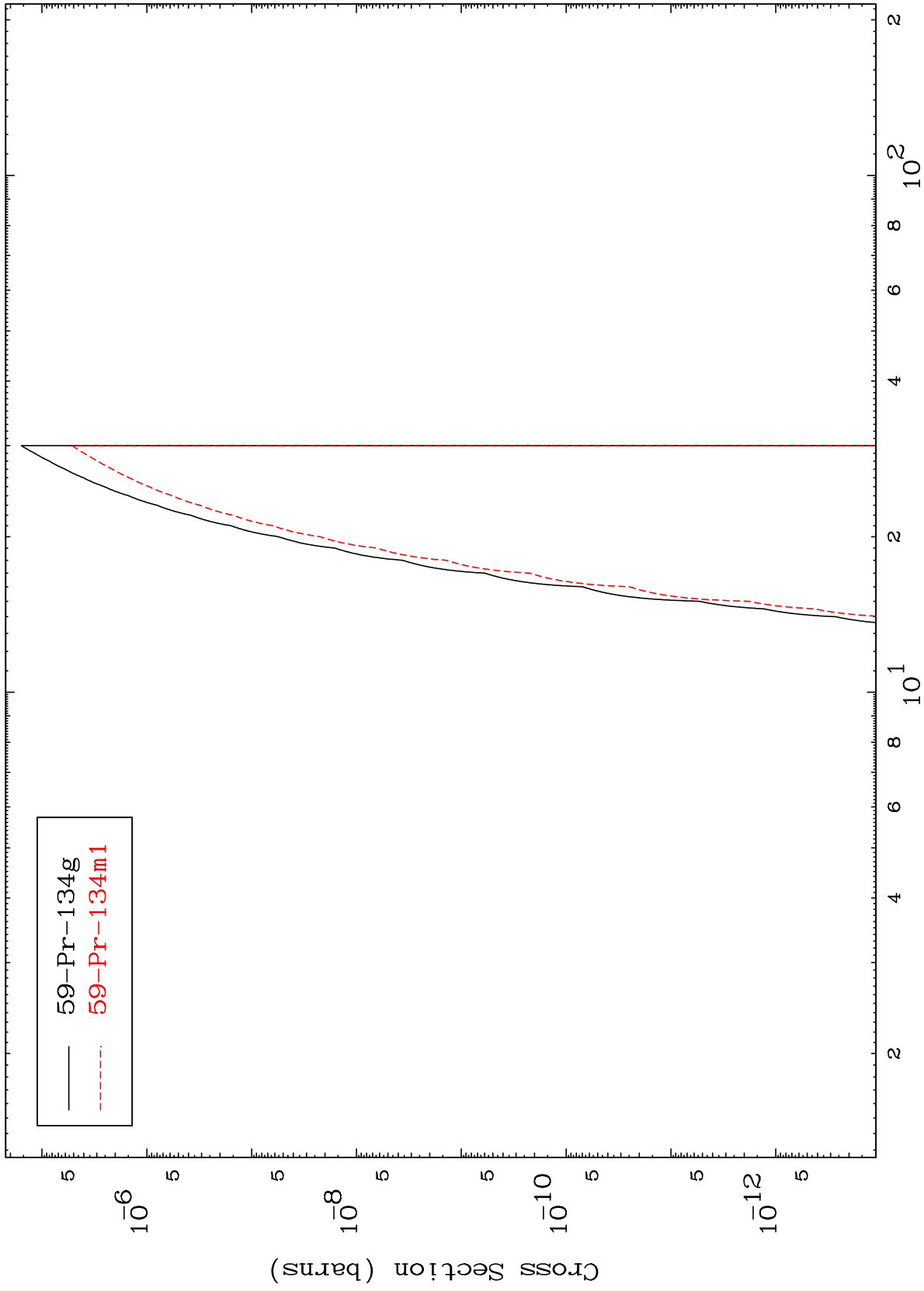
62-Sm-139

MAT 6210

(n,d) α

62-Sm-139

Radionuclide Production Cross Section



111

Incident Energy (MeV)

62-Sm-139