

Program EVALPLOT
(Version 2021-1)

by

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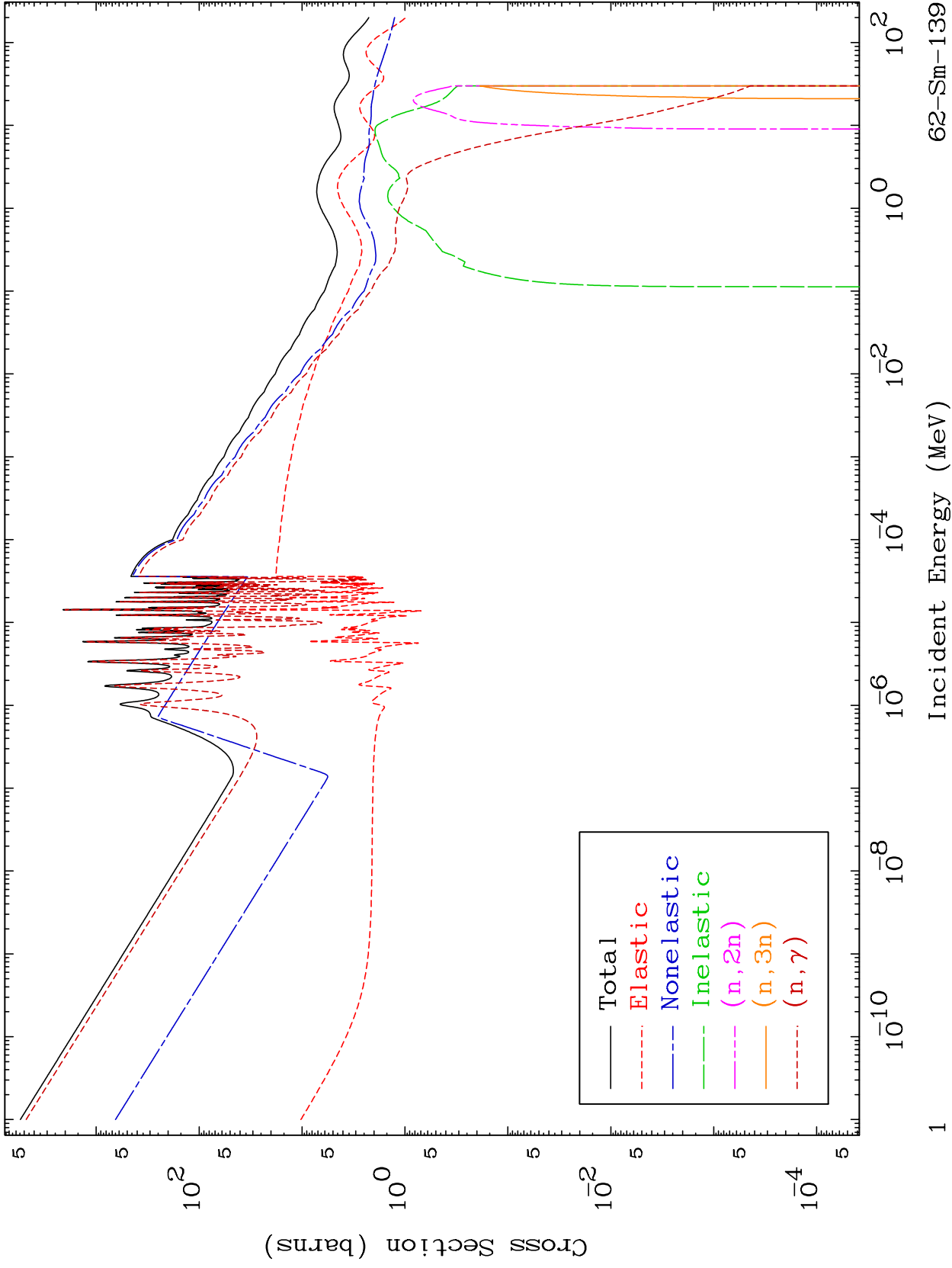
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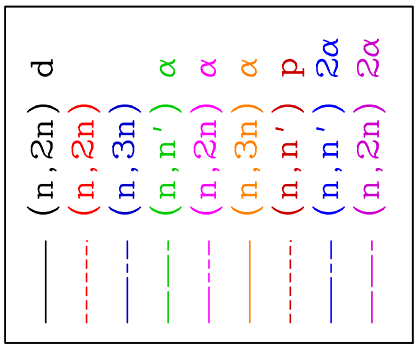
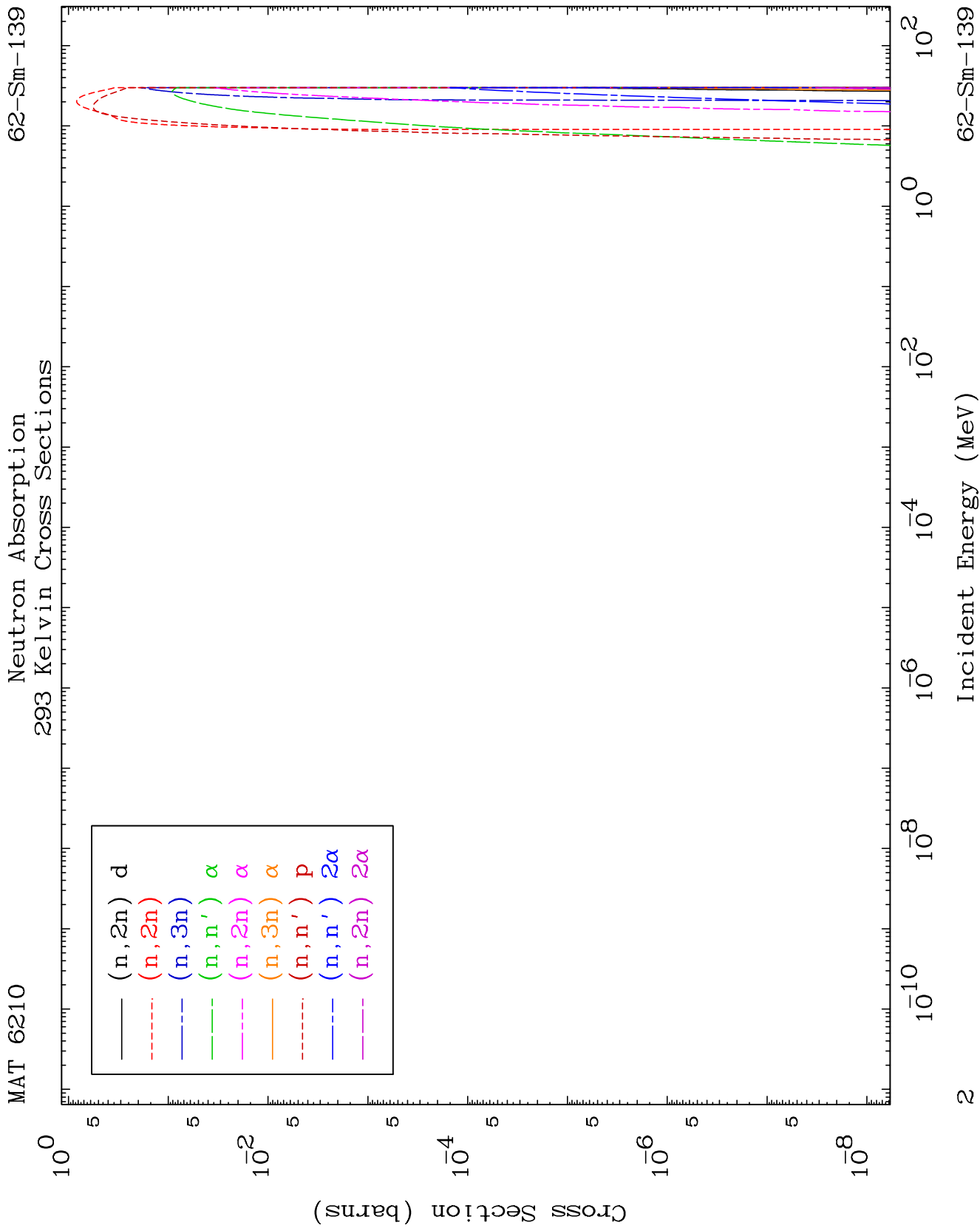
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MAT 6210

Neutron Major
293 Kelvin Cross Sections

62-Sm-139

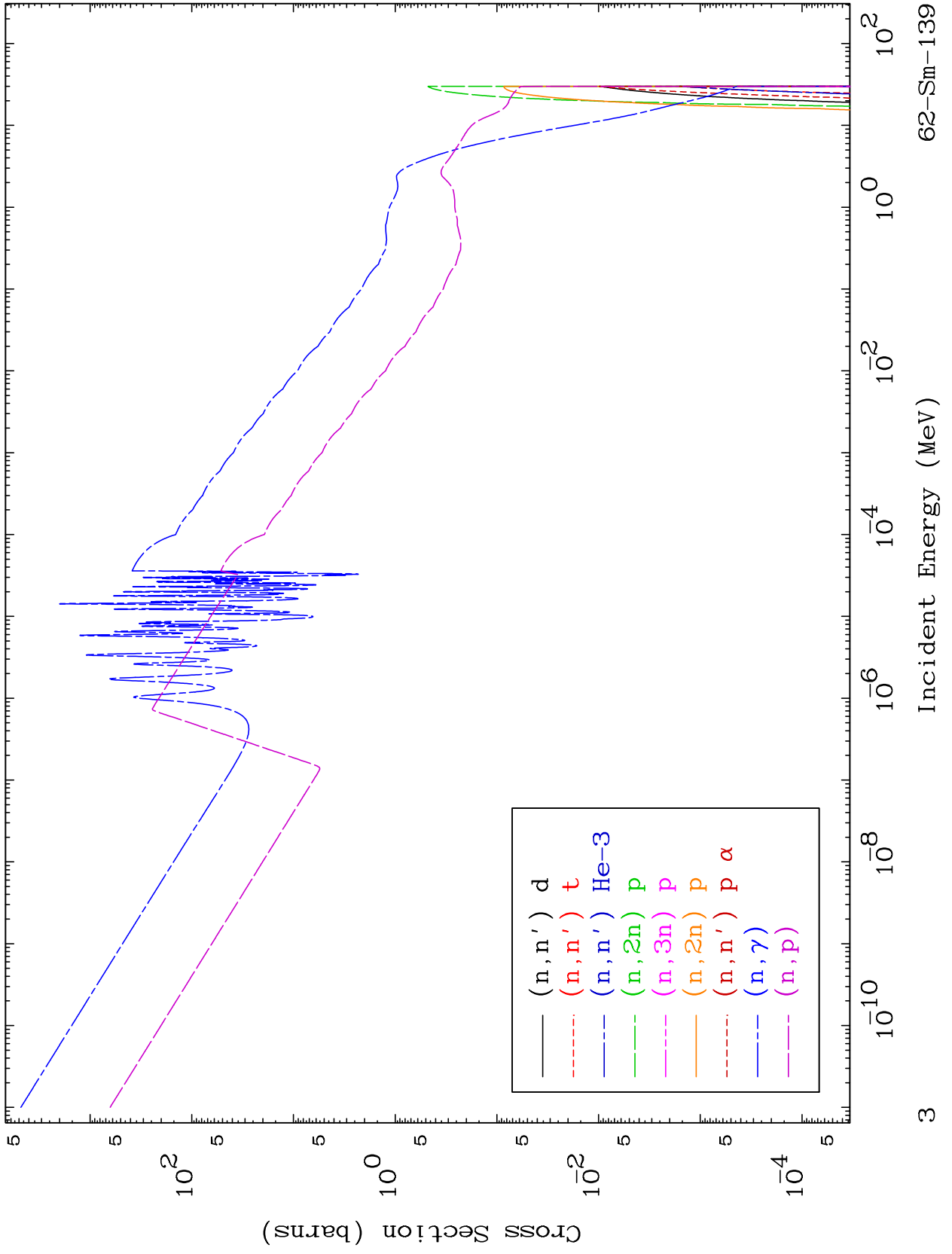




MAT 6210

Neutron Absorption
293 Kelvin Cross Sections

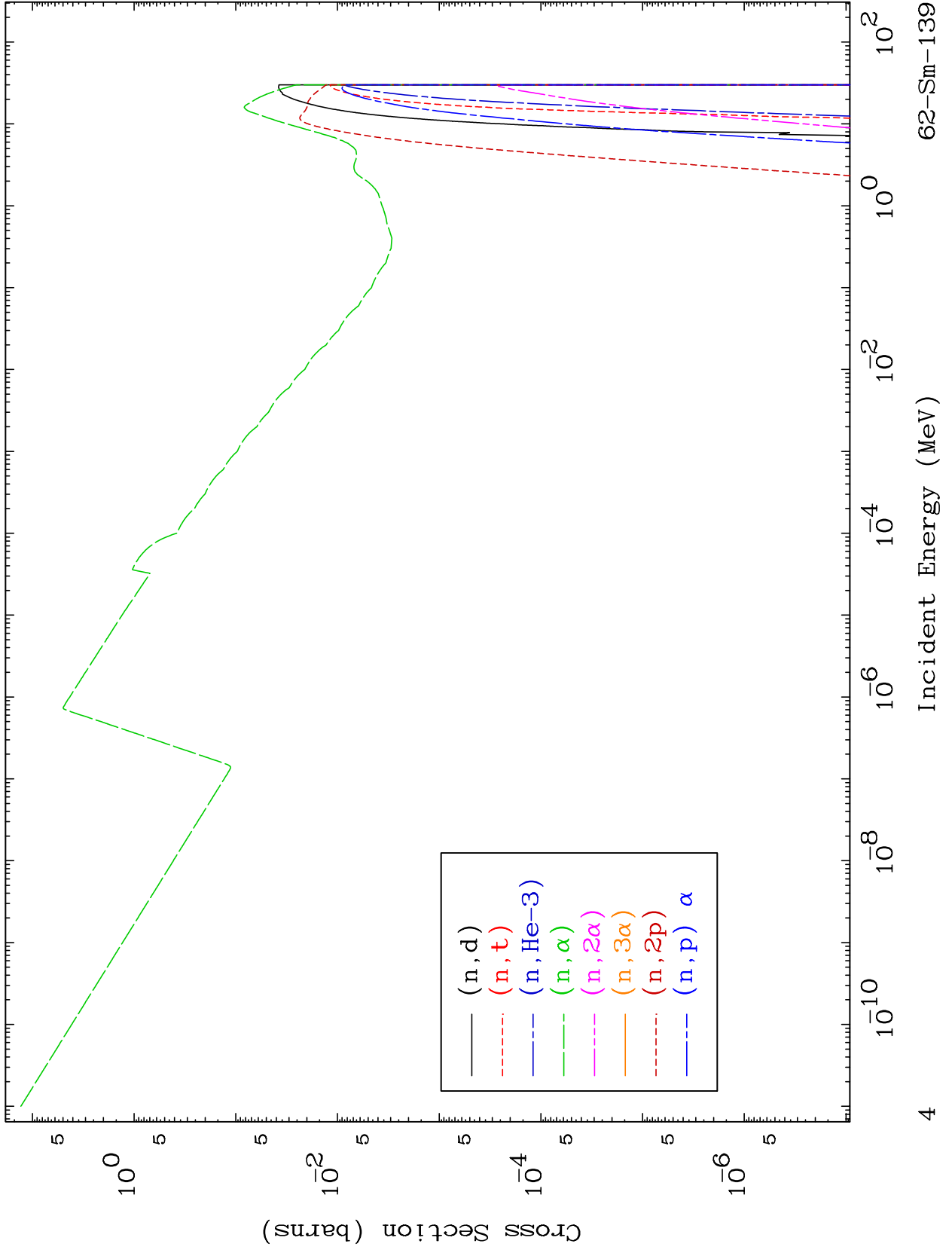
62-Sm-139

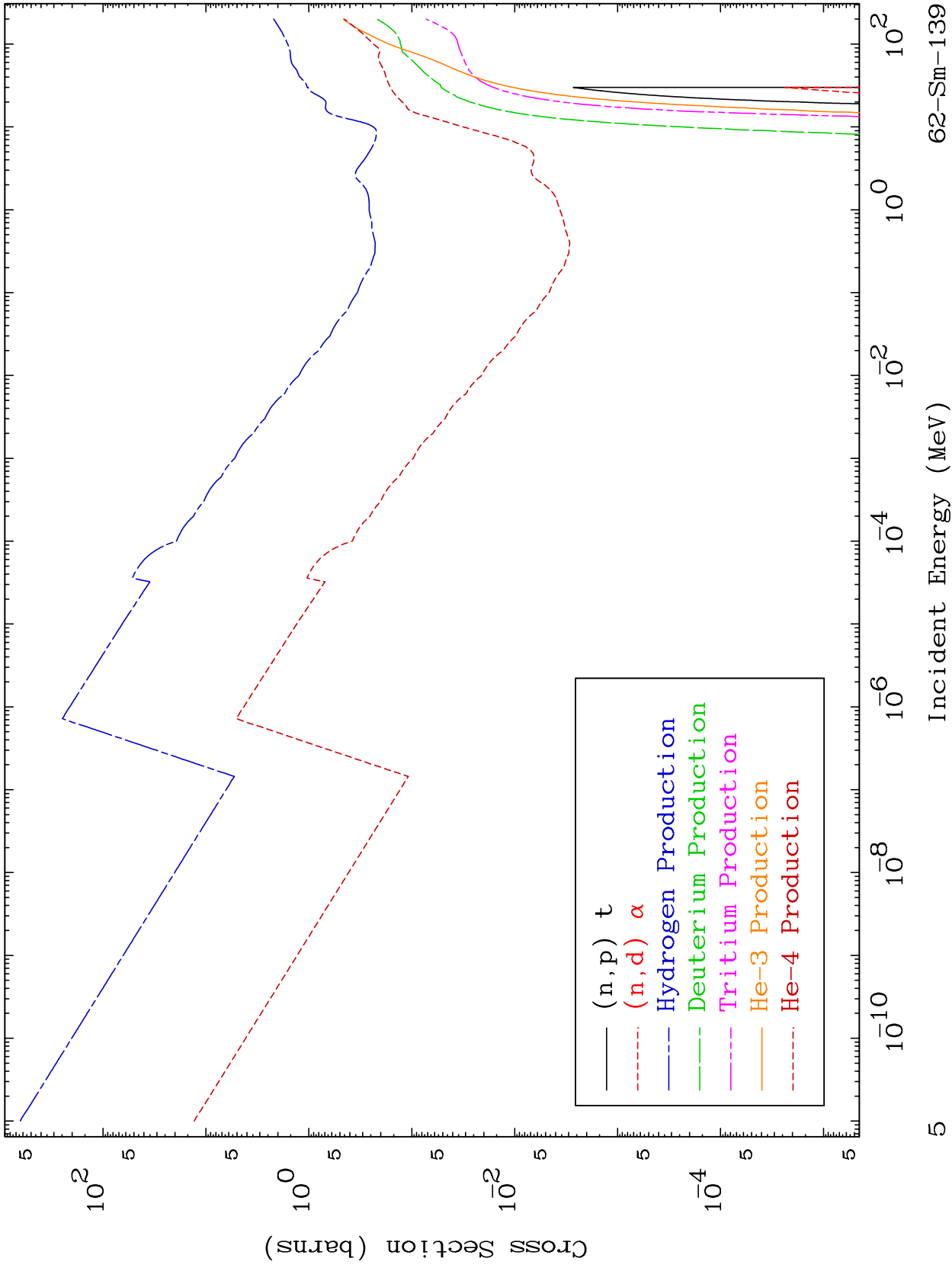


MAT 6210

Neutron Absorption
293 Kelvin Cross Sections

62-Sm-139

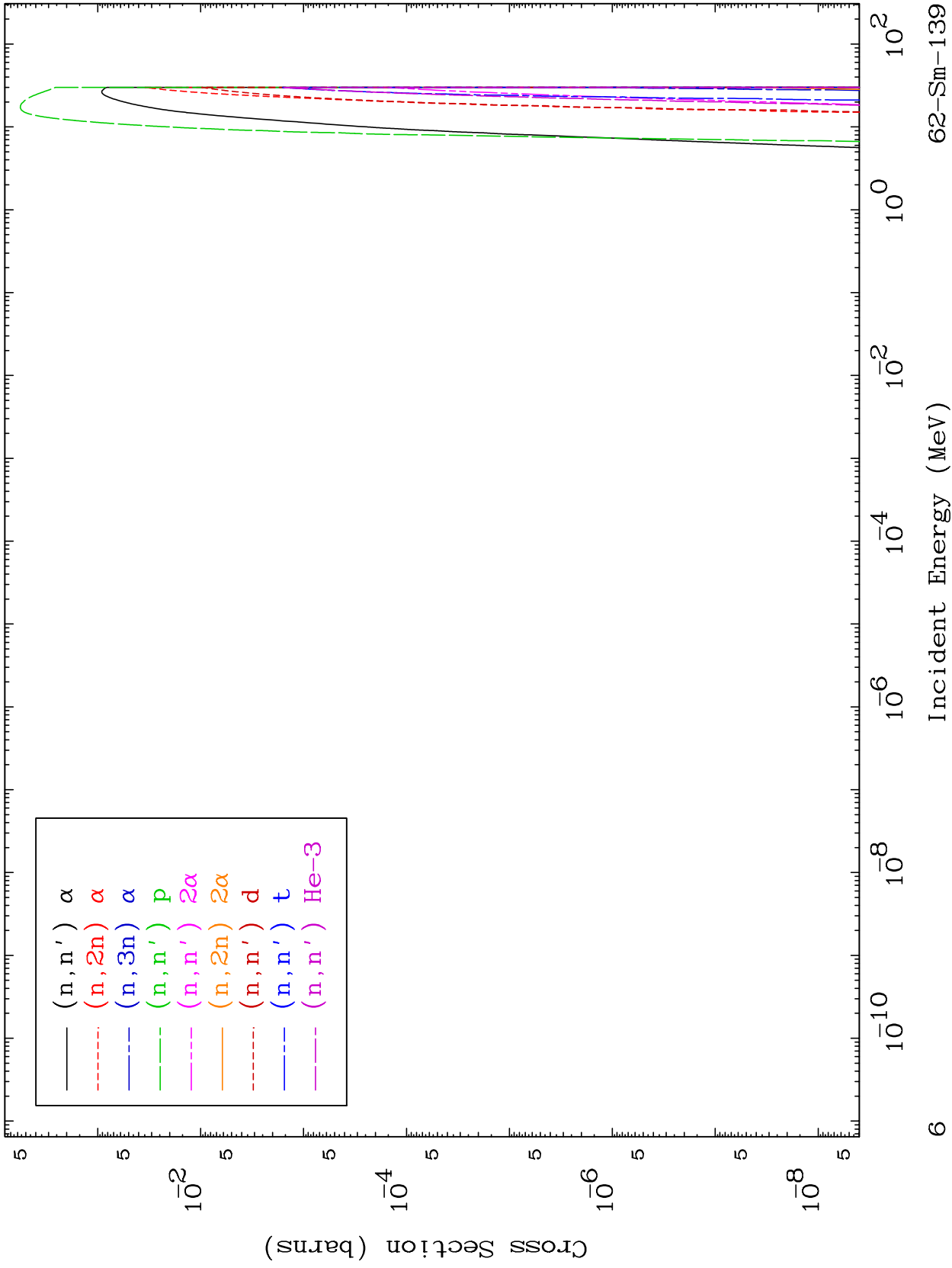




MAT 6210

Charged Particle
293 Kelvin Cross Sections

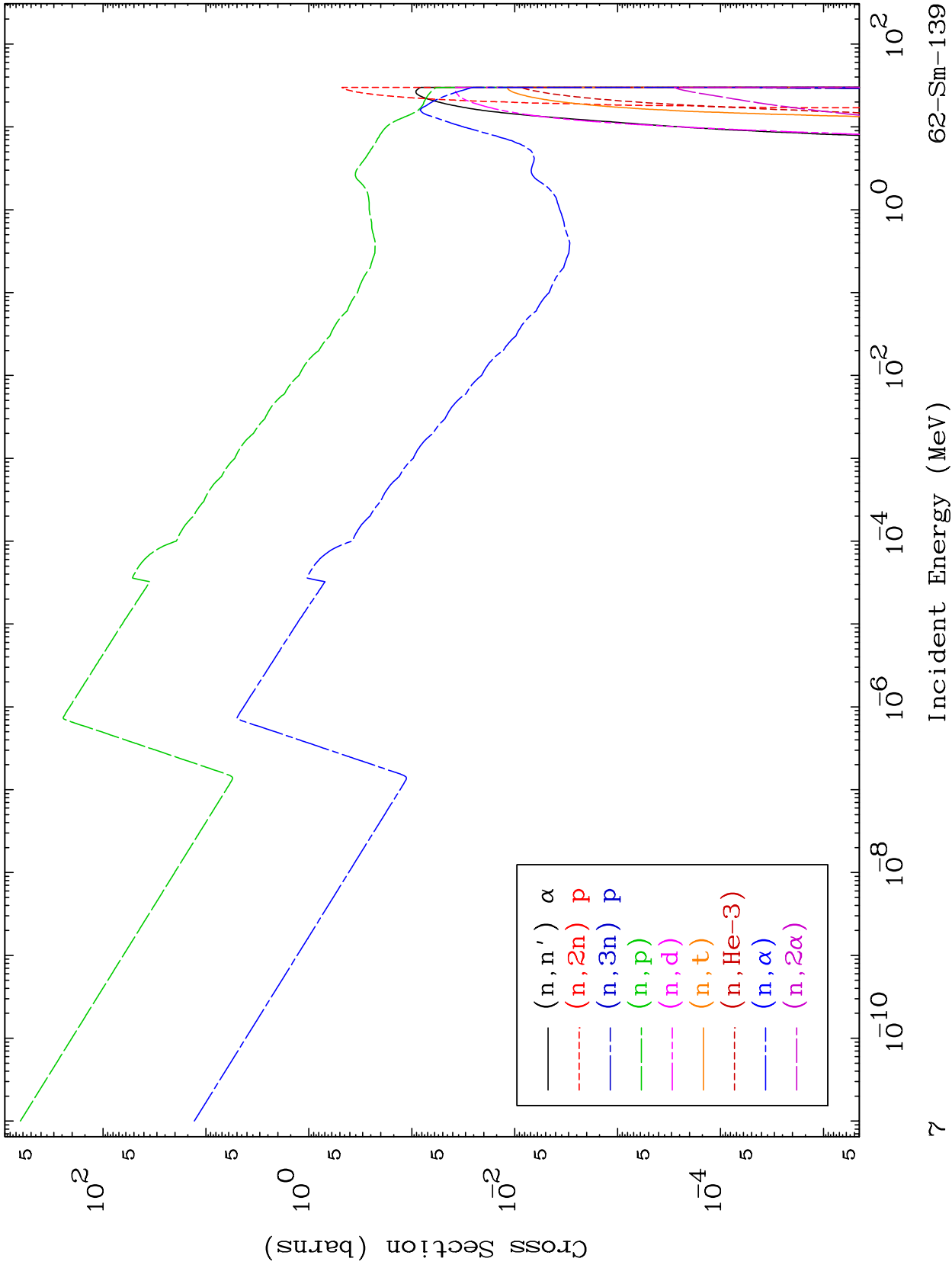
62-Sm-139



MAT 6210

Charged Particle
293 Kelvin Cross Sections

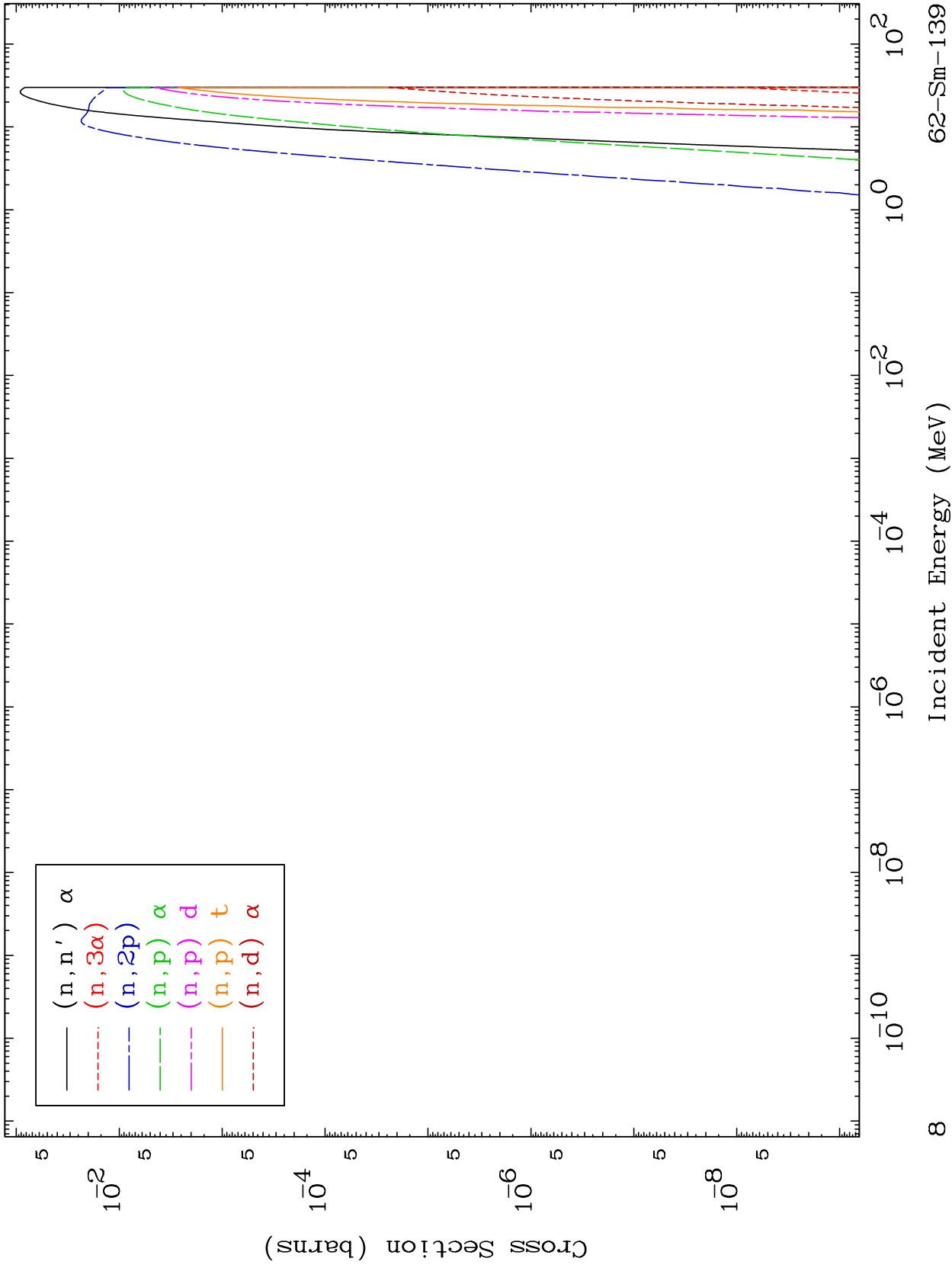
62-Sm-139



MAT 6210

Charged Particle
293 Kelvin Cross Sections

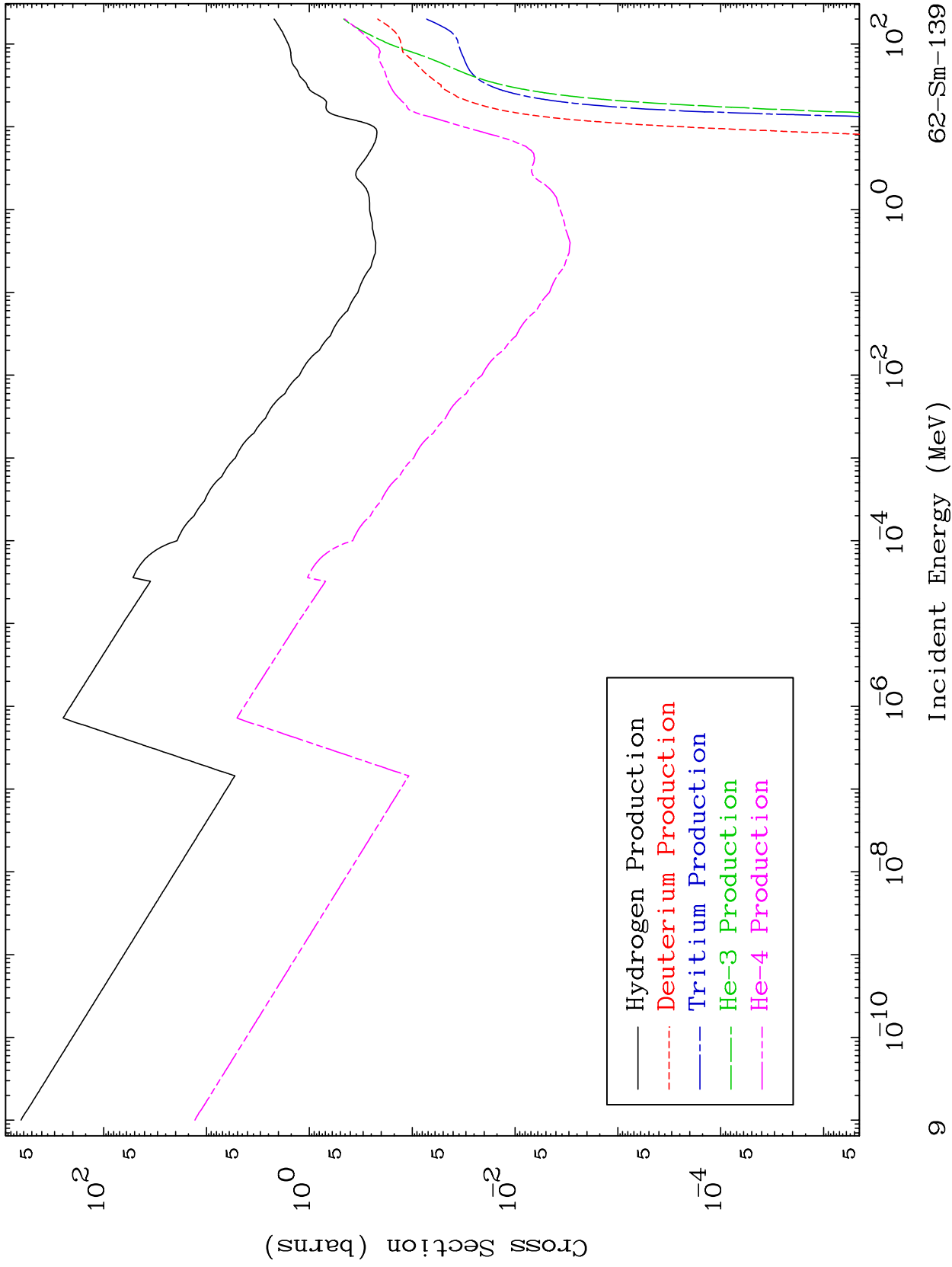
62-Sm-139



MAT 6210

Particle Production
293 Kelvin Cross Sections

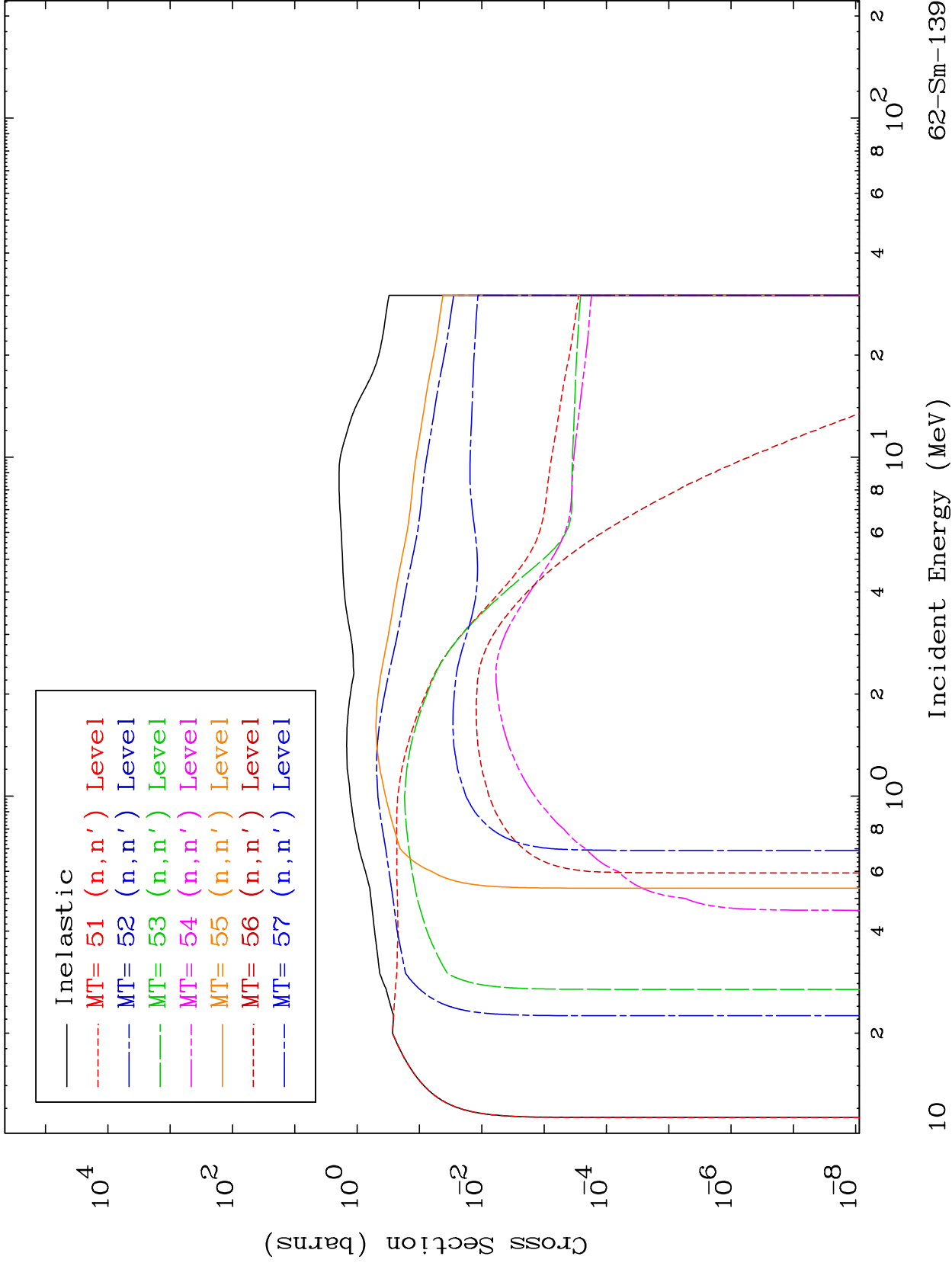
62-Sm-139



MAT 6210

(n,n') Levels
293 Kelvin Cross Sections

62-Sm-139



10

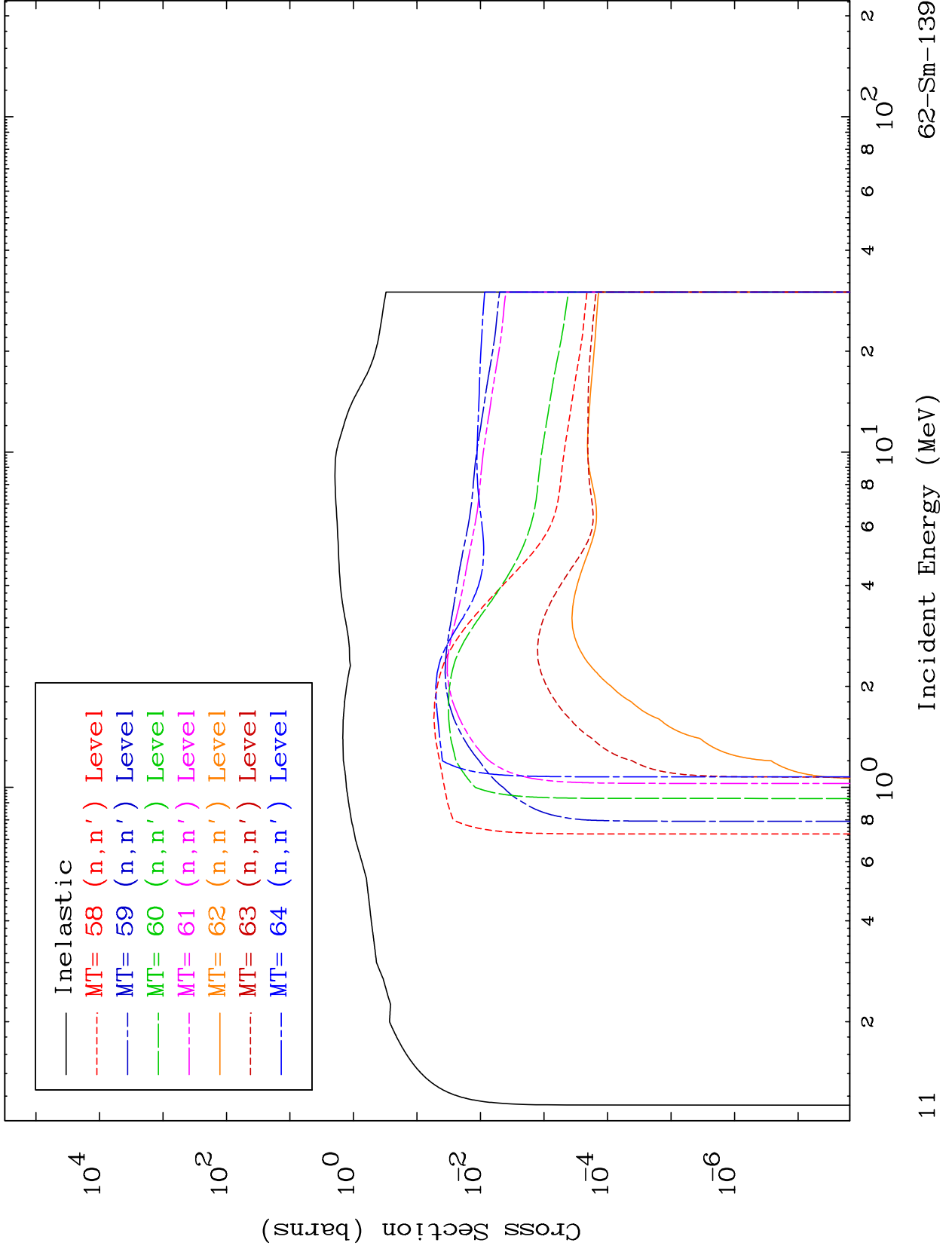
Incident Energy (MeV)

62-Sm-139

MAT 6210

(n,n') Levels
293 Kelvin Cross Sections

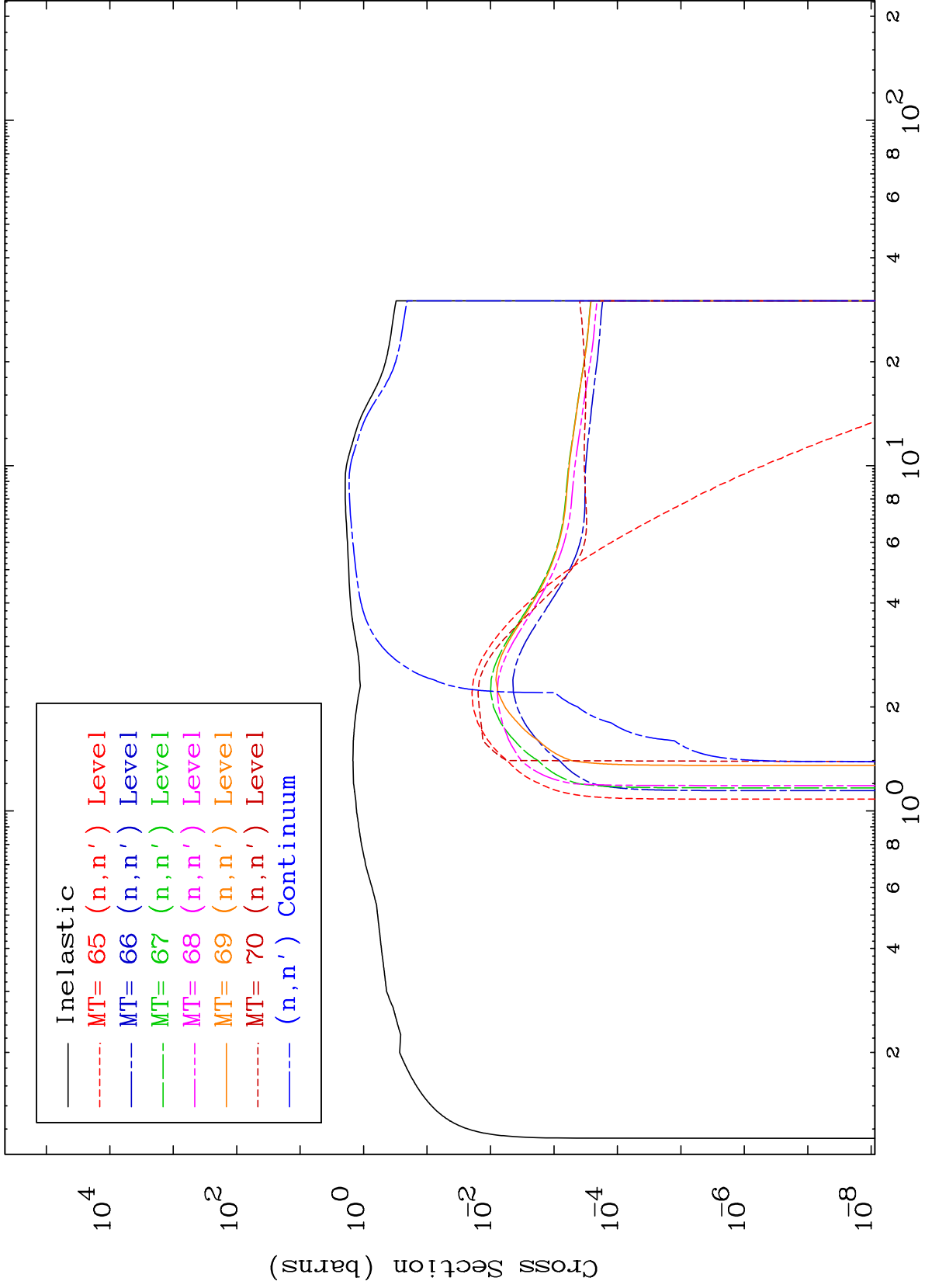
62-Sm-139



MAT 6210

(n,n') Levels
293 Kelvin Cross Sections

62-Sm-139



12

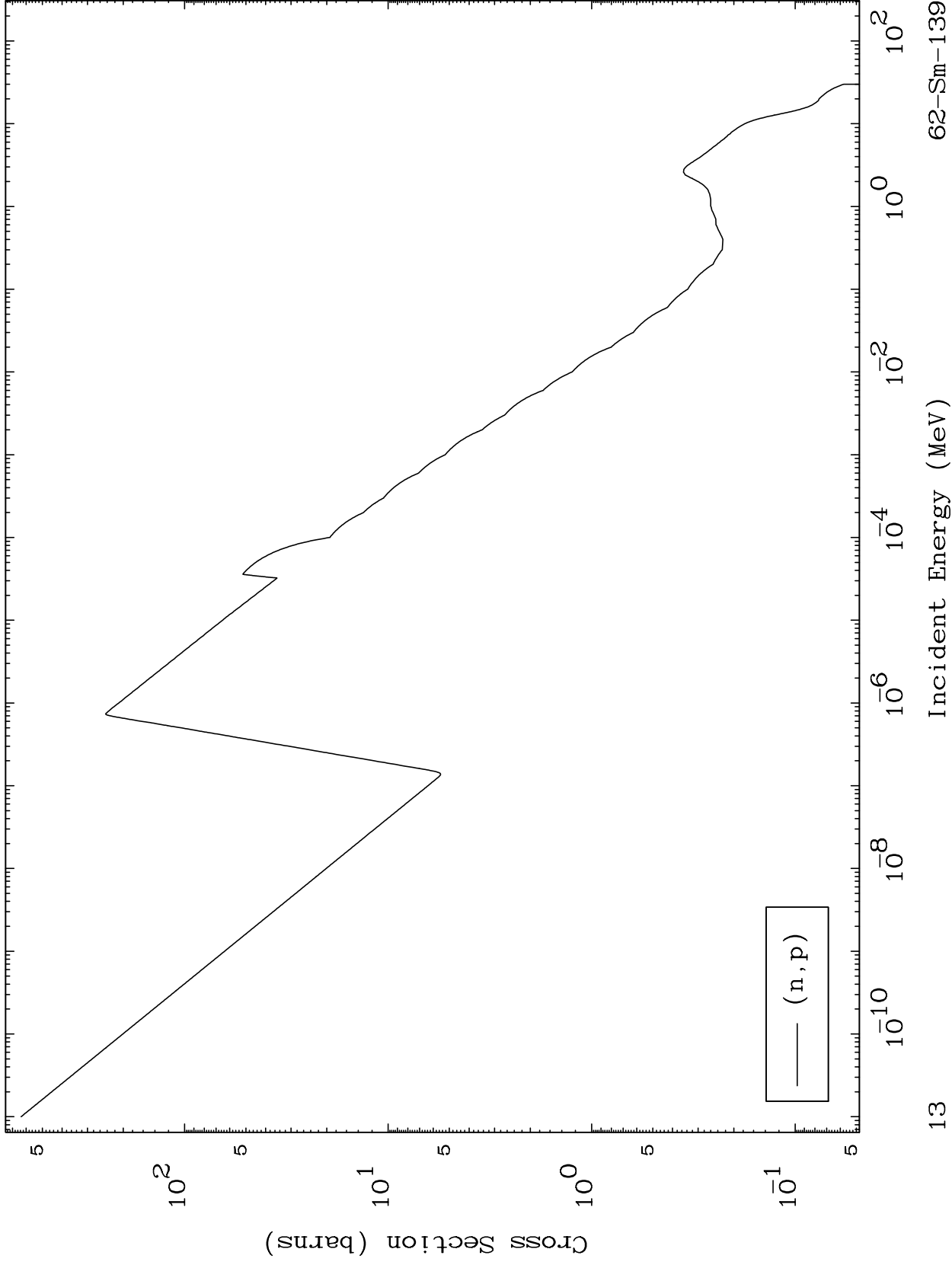
Incident Energy (MeV)

62-Sm-139

MAT 6210

(n,p) Levels
293 Kelvin Cross Sections

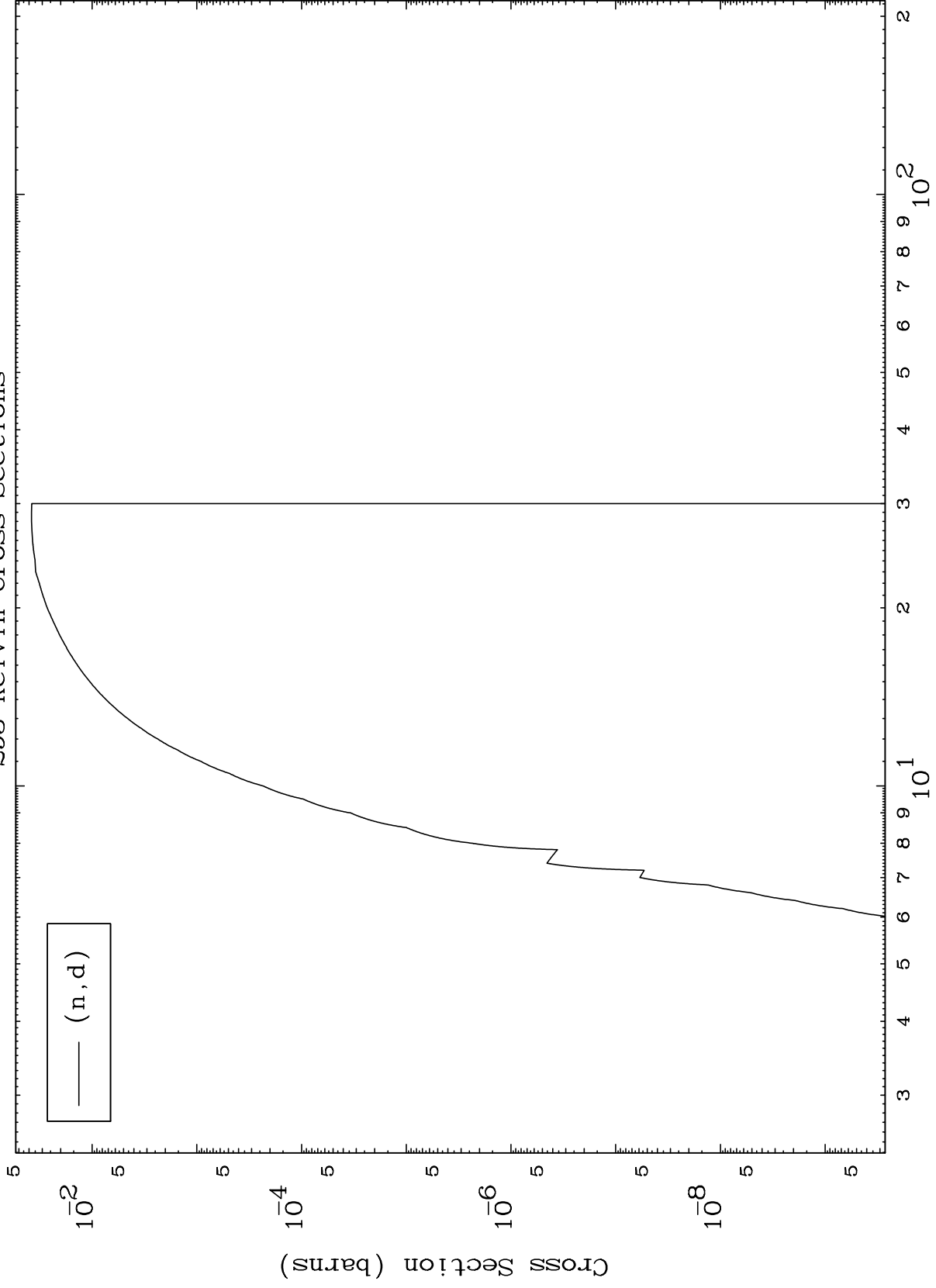
62-Sm-139



MAT 6210

(n,d) Levels
293 Kelvin Cross Sections

62-Sm-139



14

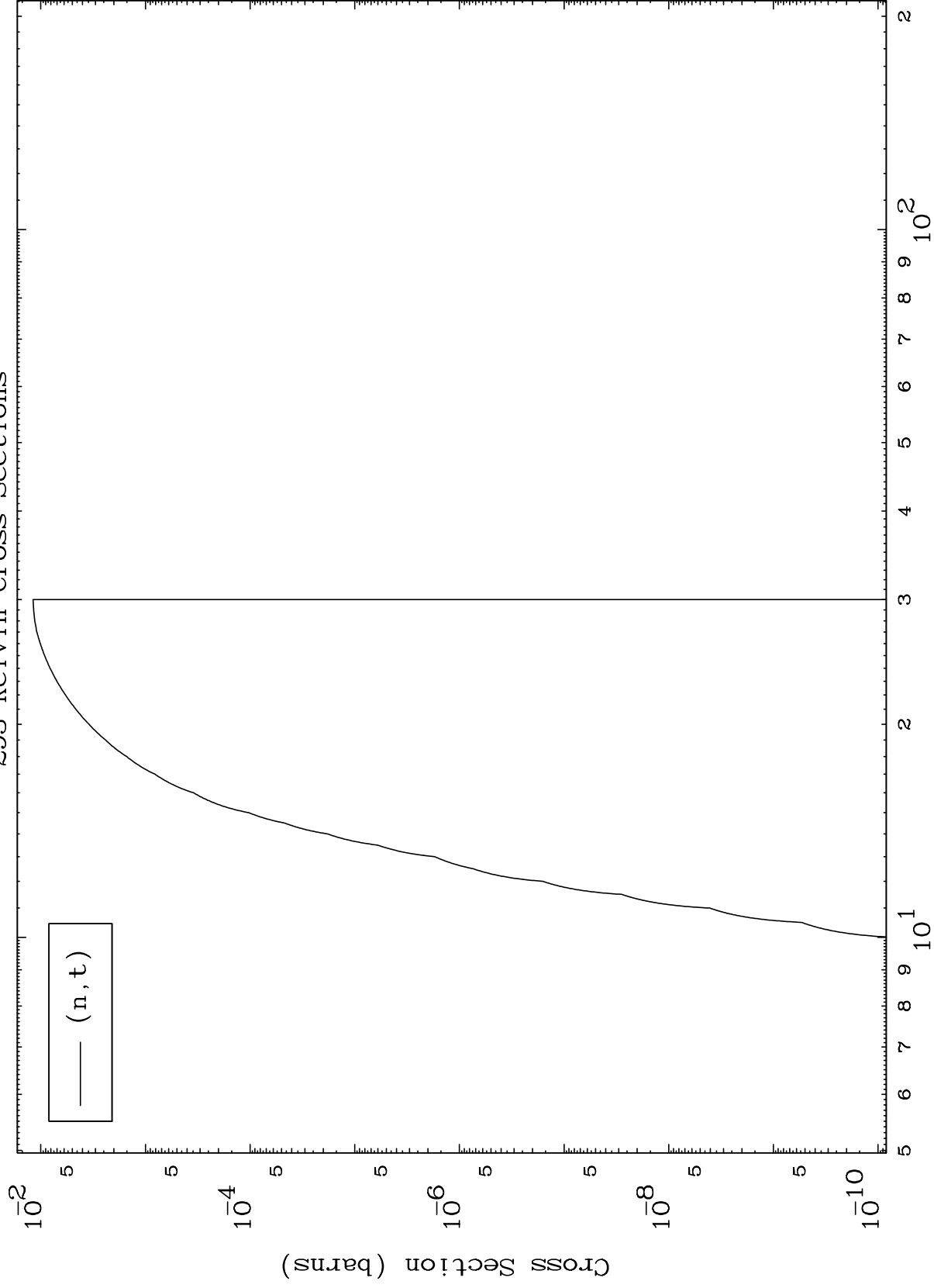
Incident Energy (MeV)

62-Sm-139

MAT 6210

(n,t) Levels
293 Kelvin Cross Sections

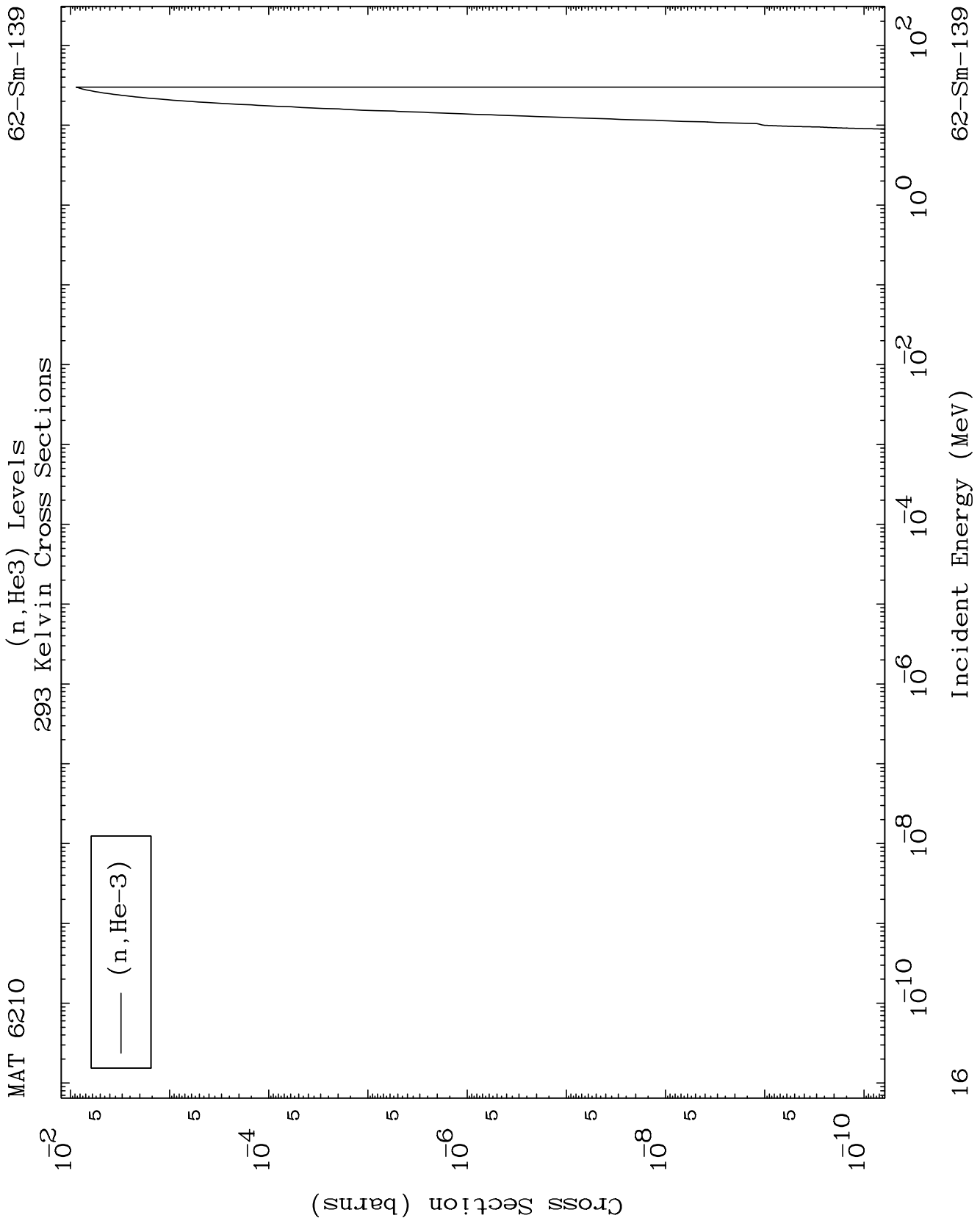
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15

Incident Energy (MeV)

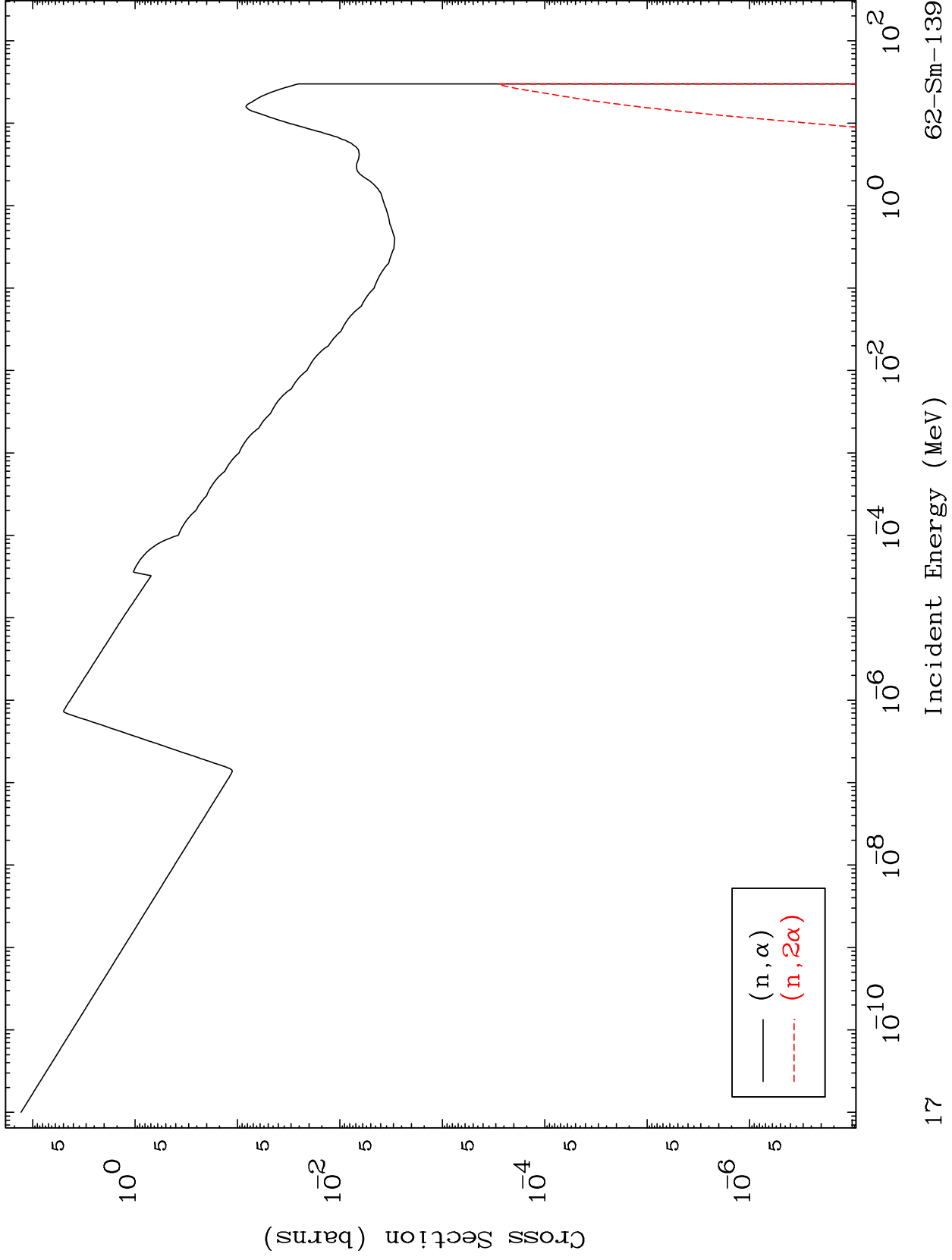
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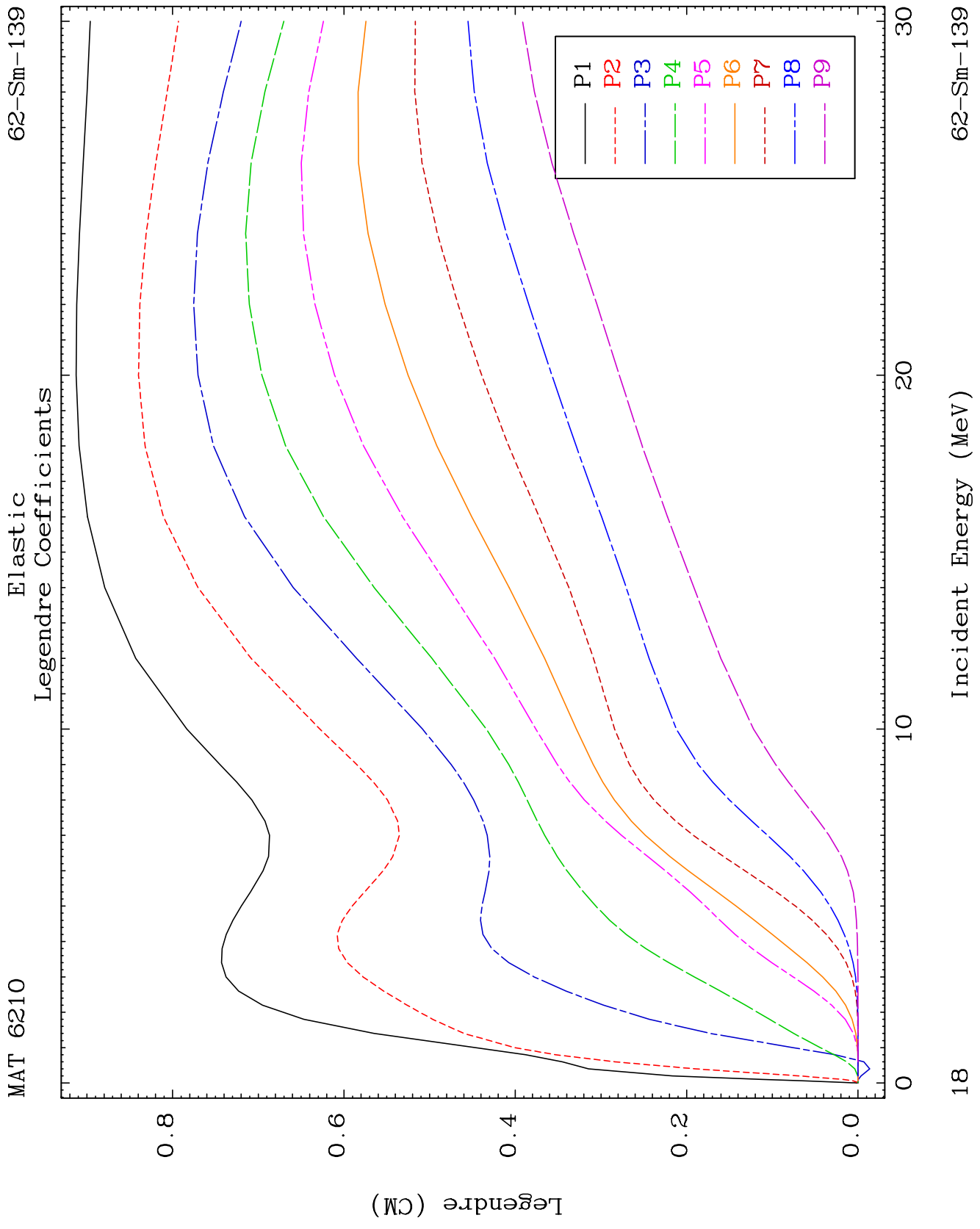


MAT 6210

(n, α) Levels
293 Kelvin Cross Sections

62-Sm-139





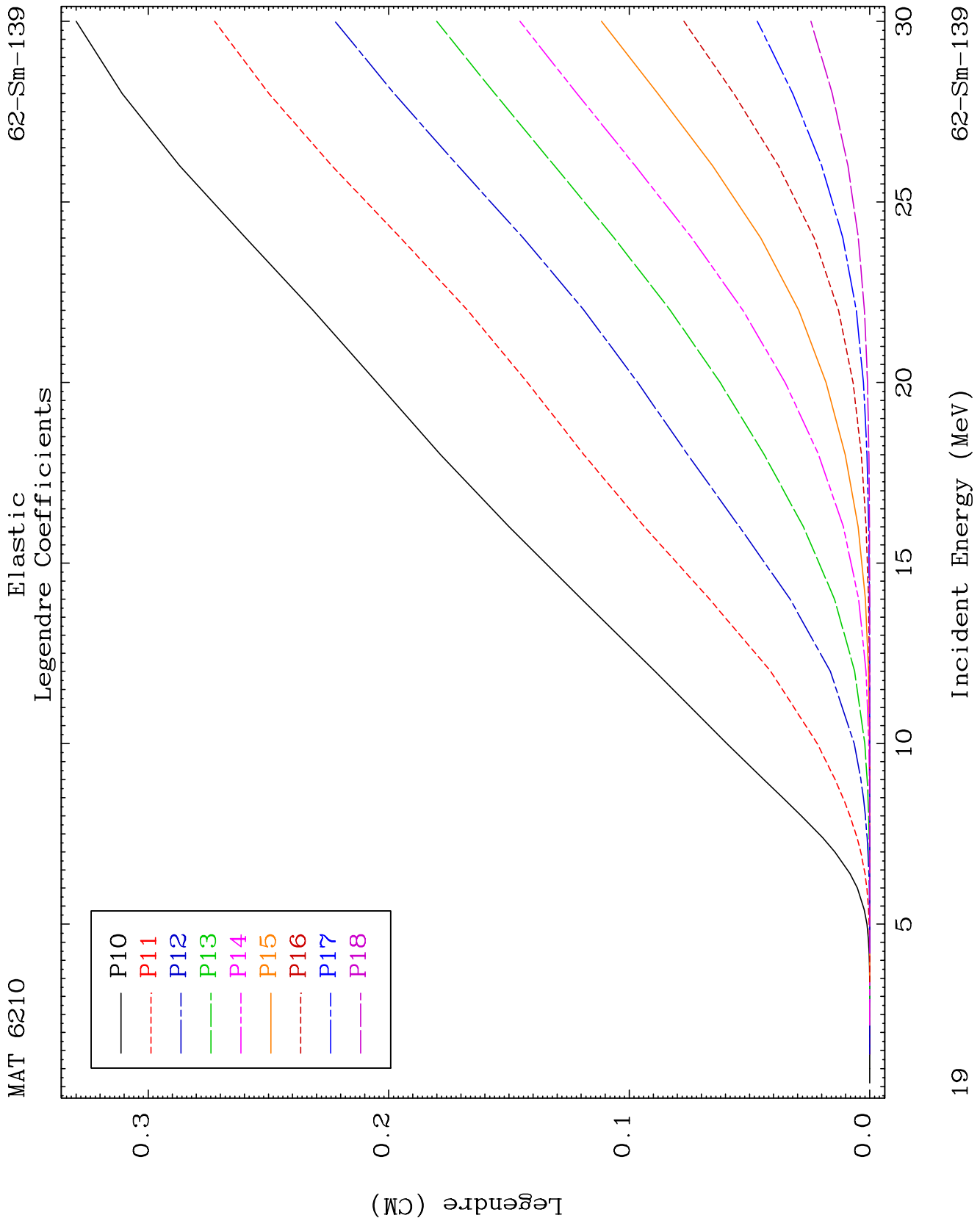
MAT 6210

$^{62}\text{Sm-139}$

18

Incident Energy (MeV)

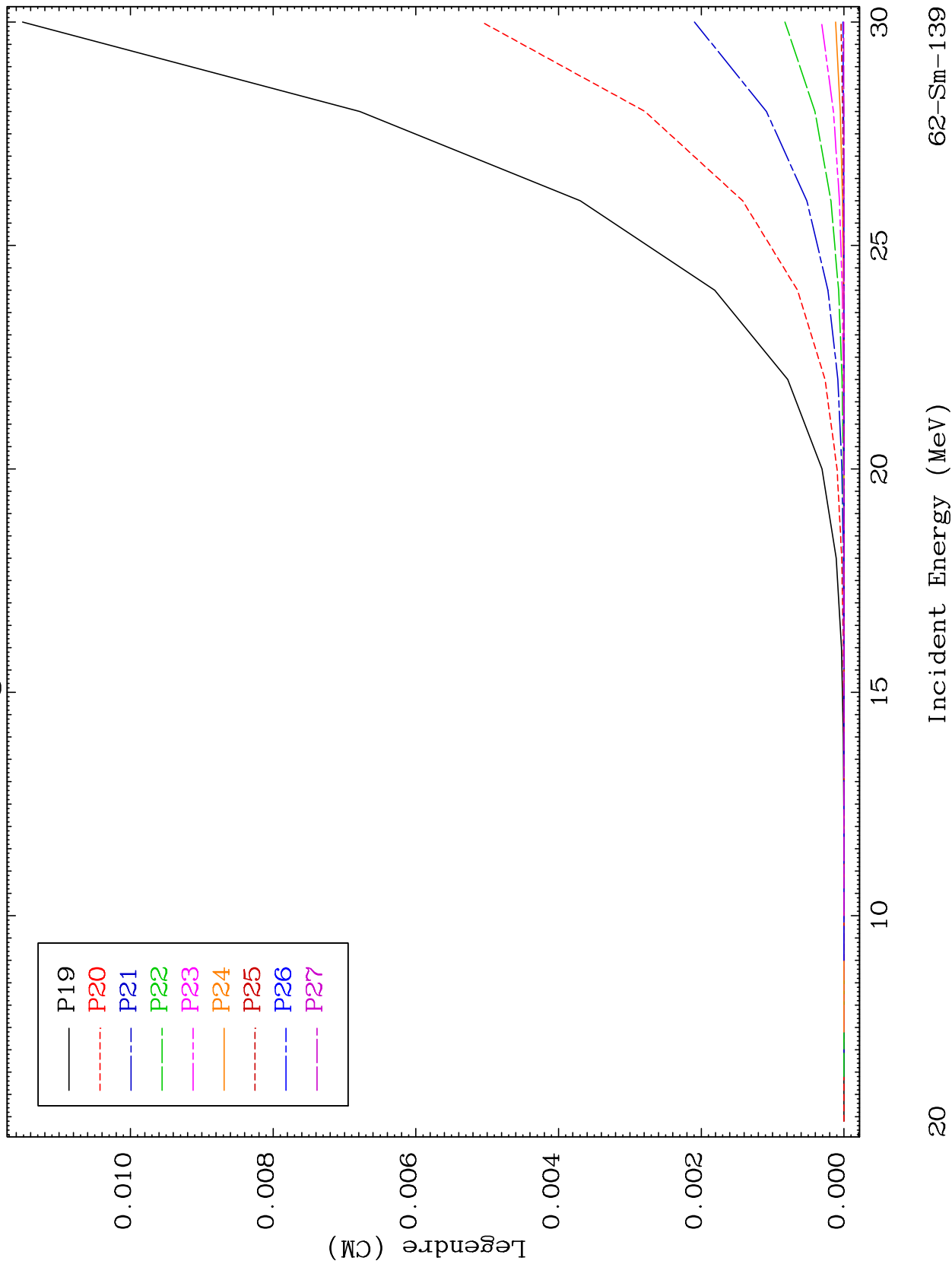
$^{62}\text{Sm-139}$



MAT 6210

Elastic Legendre Coefficients

62-Sm-139



20

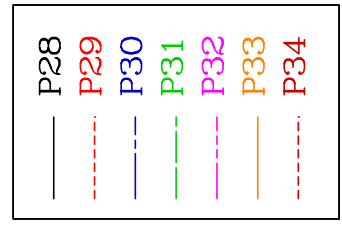
Incident Energy (MeV)

62-Sm-139

MAT 6210

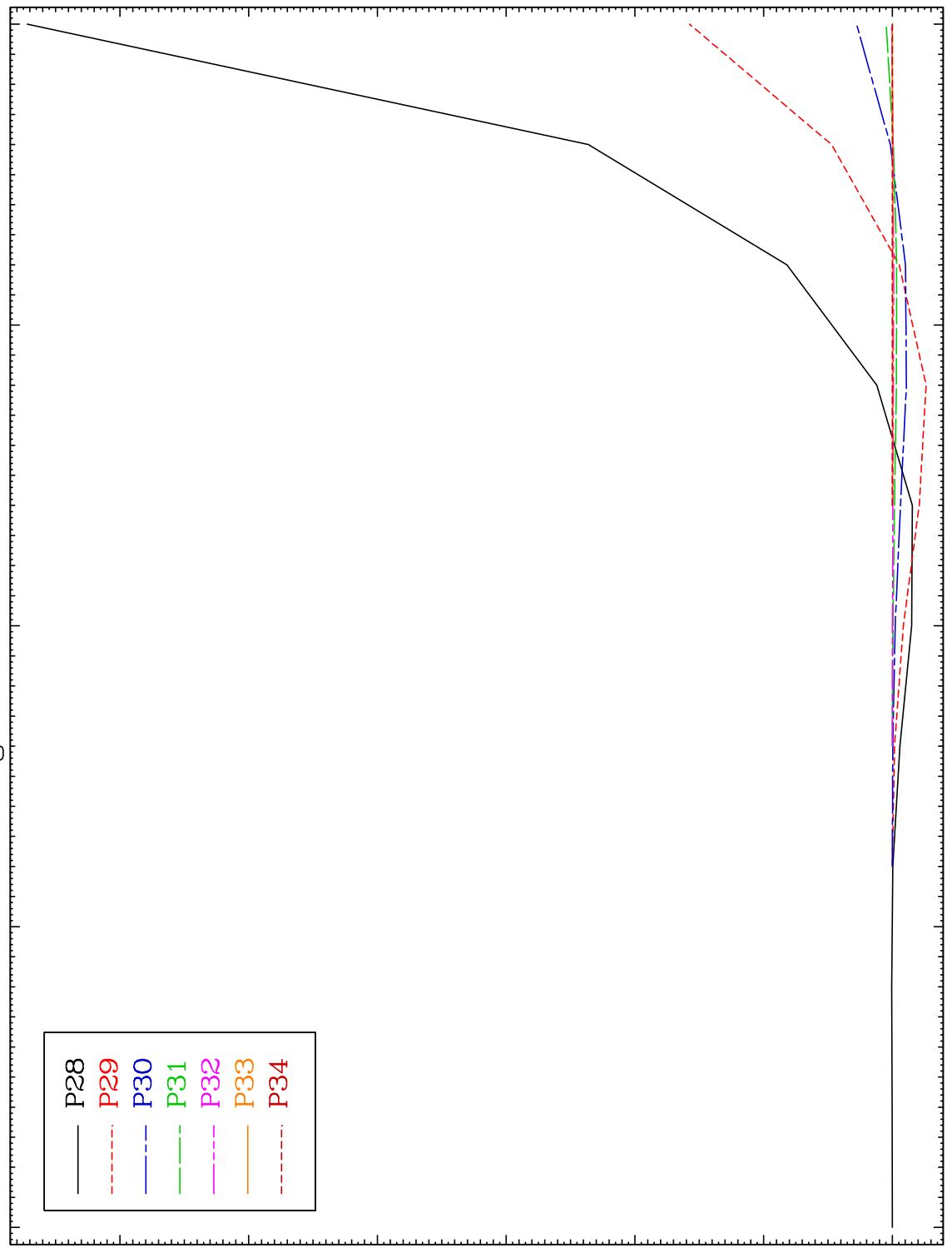
Elastic Legendre Coefficients

62-Sm-139



$\times 10^{-6}$

Legendre (CM)



30

25

20

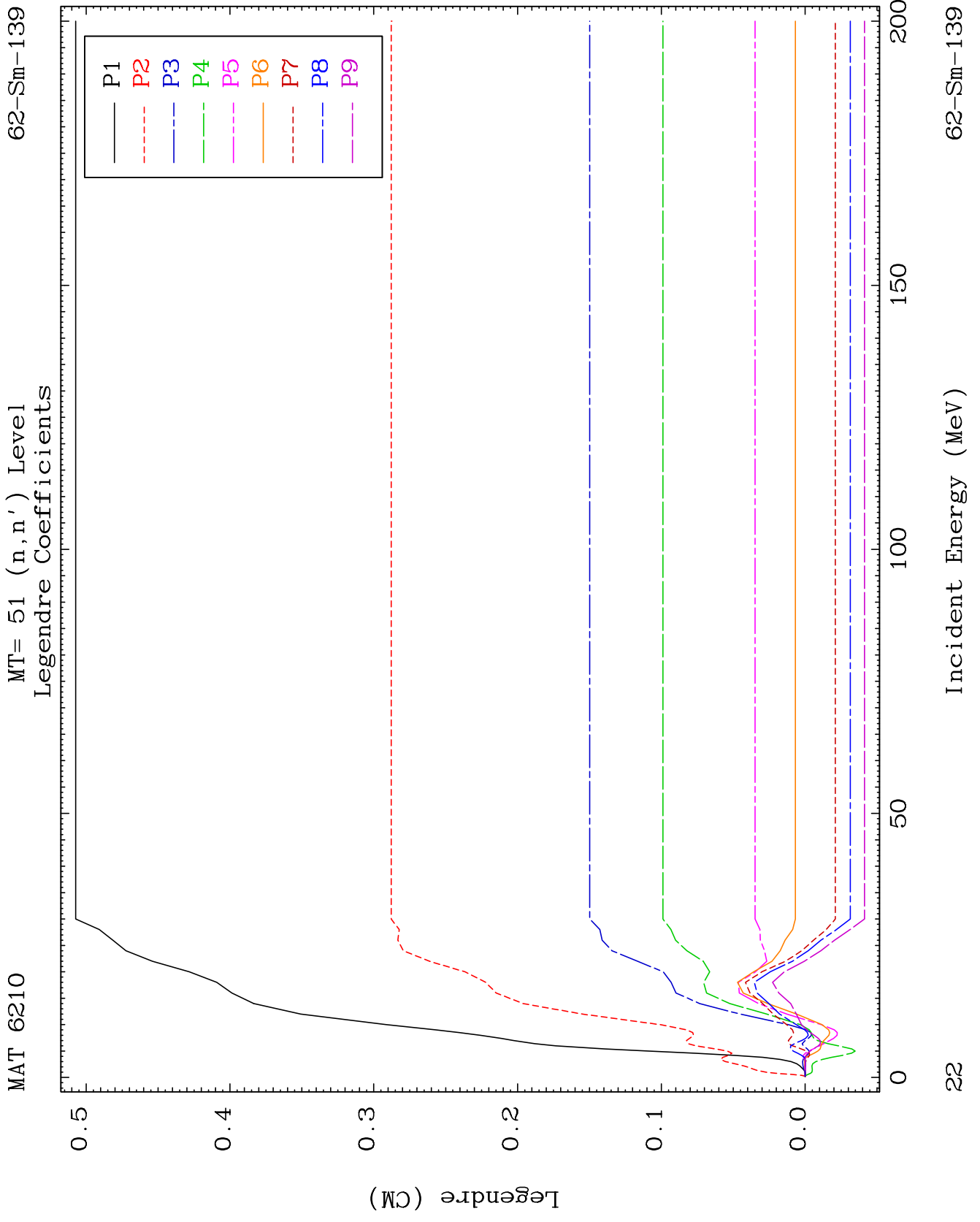
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10

Incident Energy (MeV)

62-Sm-139

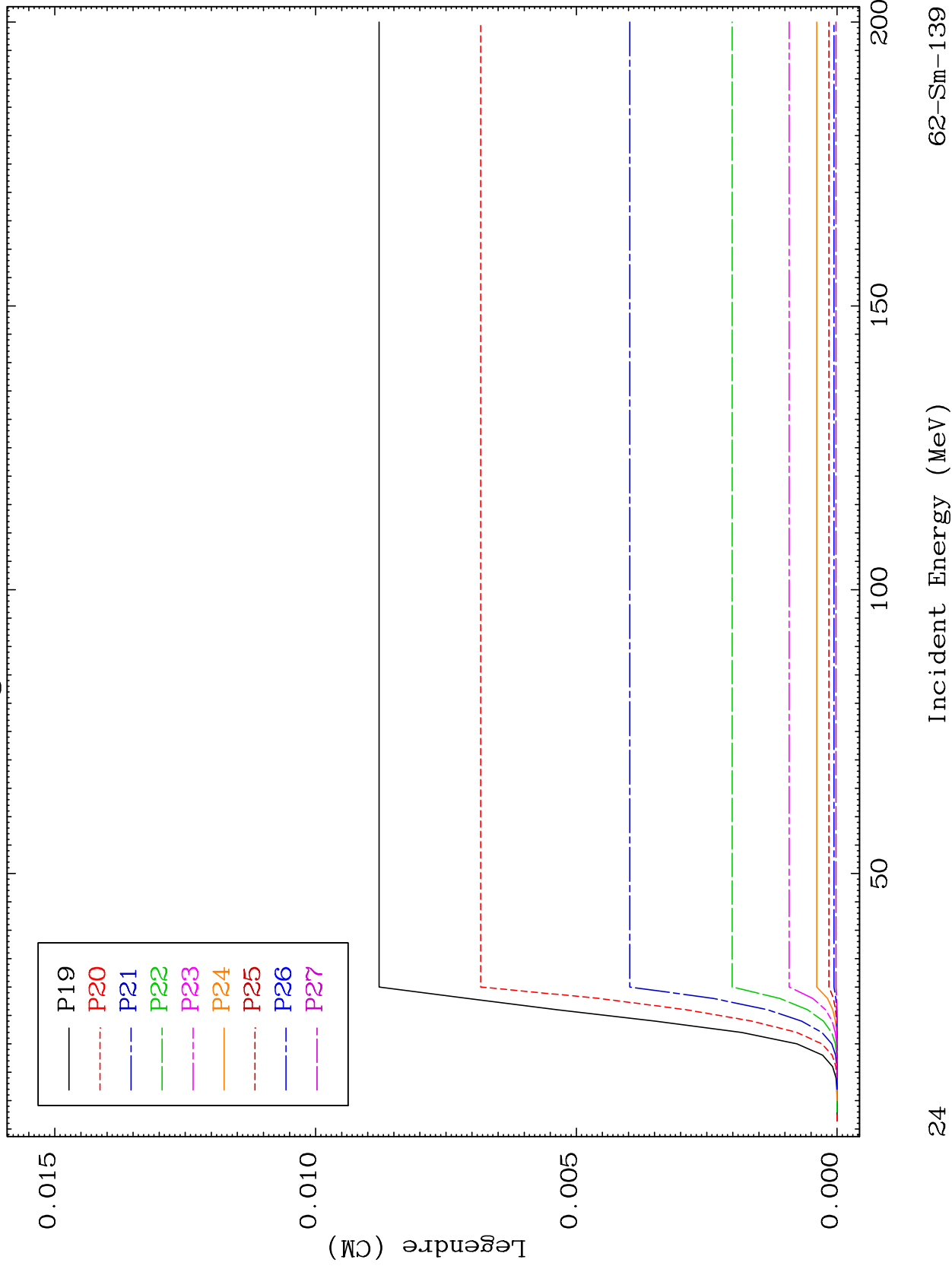
21



MAT 6210

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

62-Sm-139



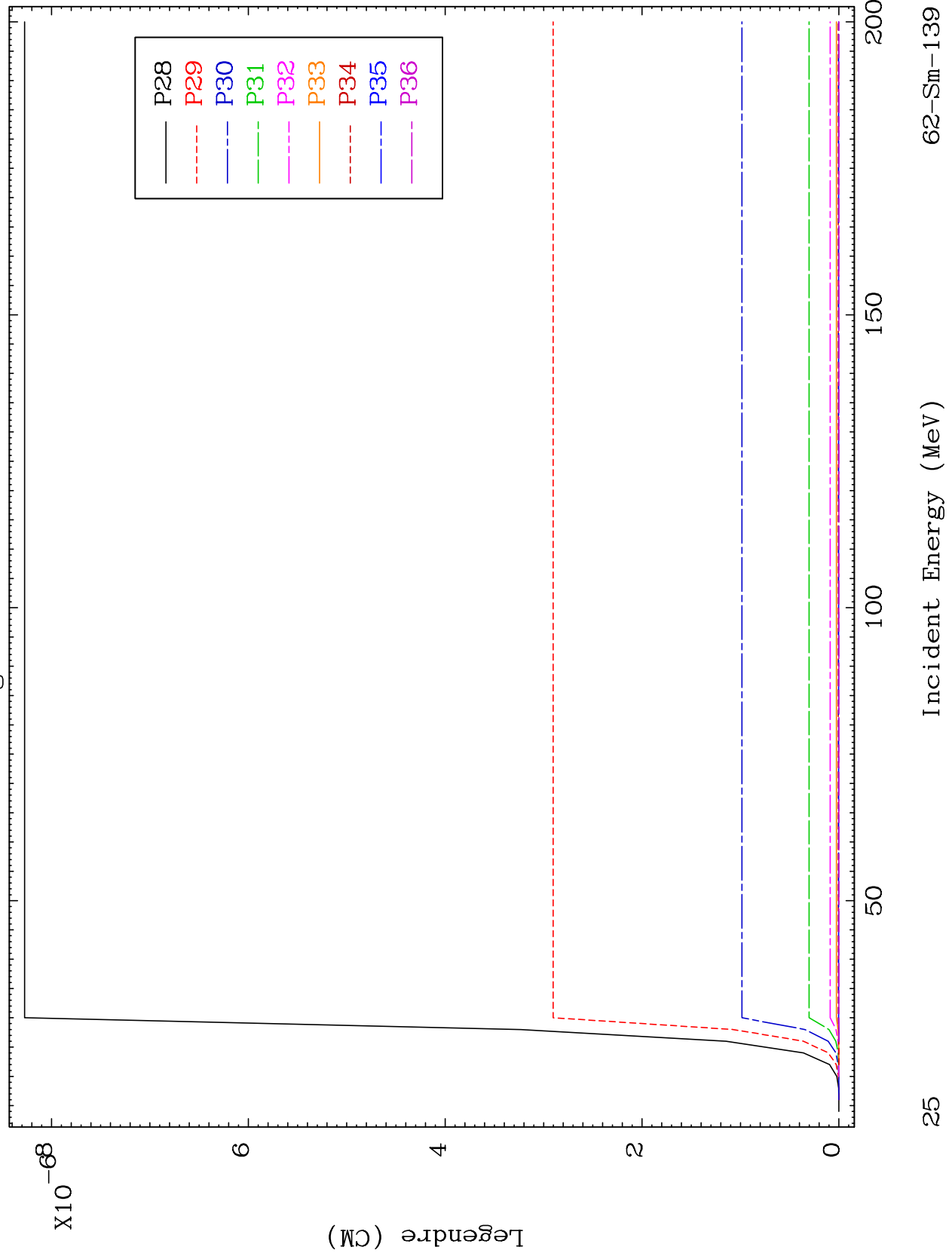
24

200

MAT 6210

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

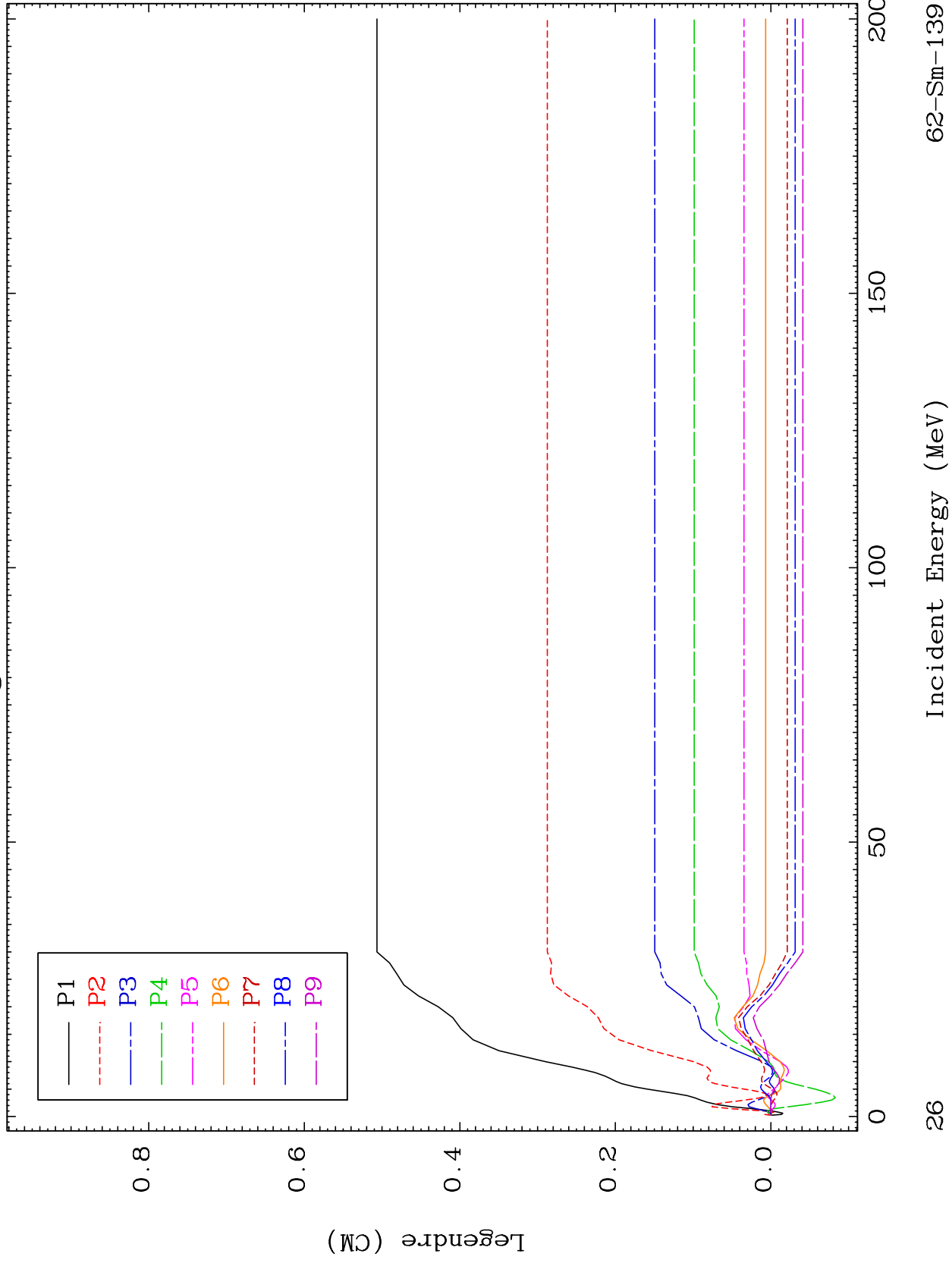
62-Sm-139



MAT 6210

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

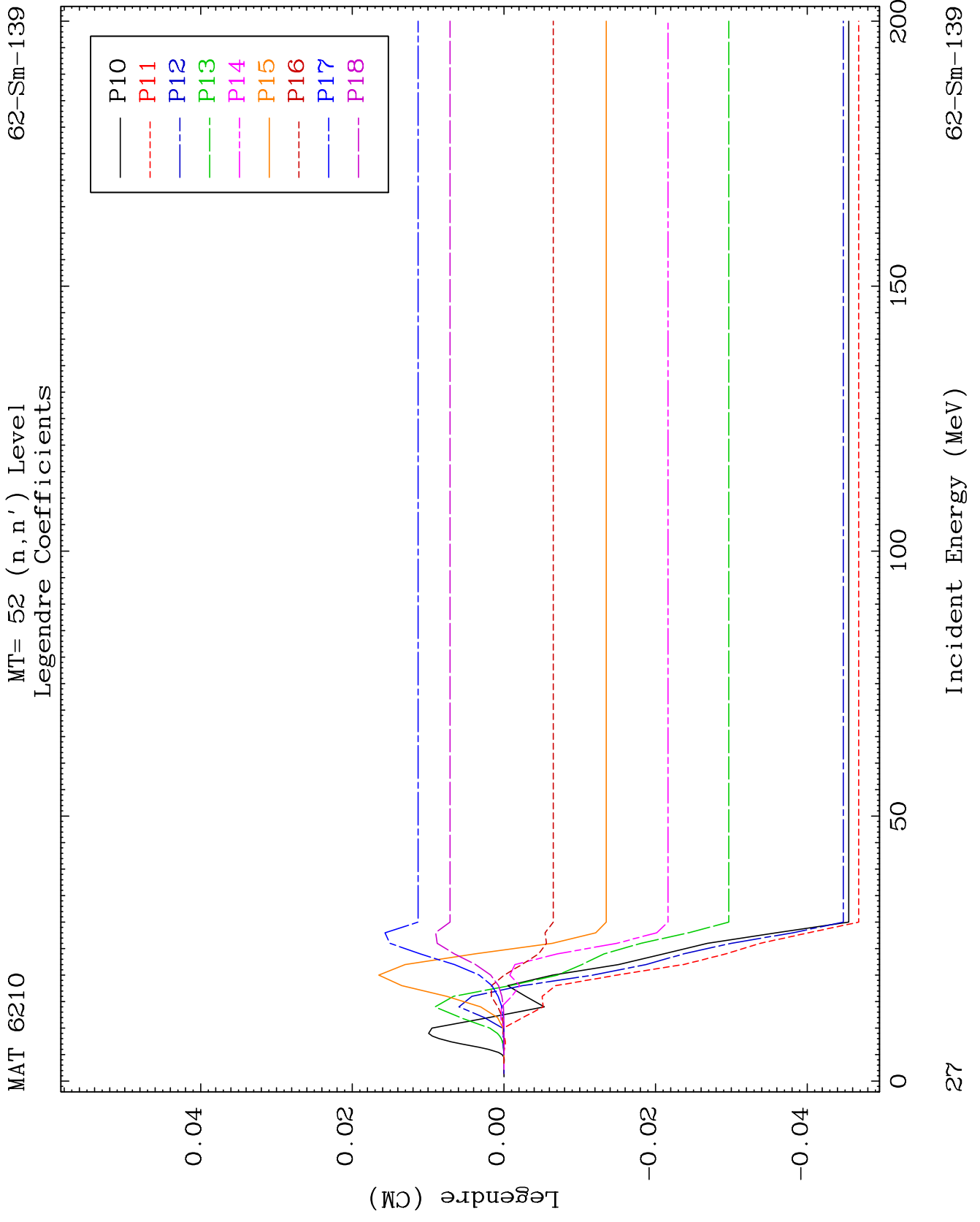
62-Sm-139



26

Incident Energy (MeV)

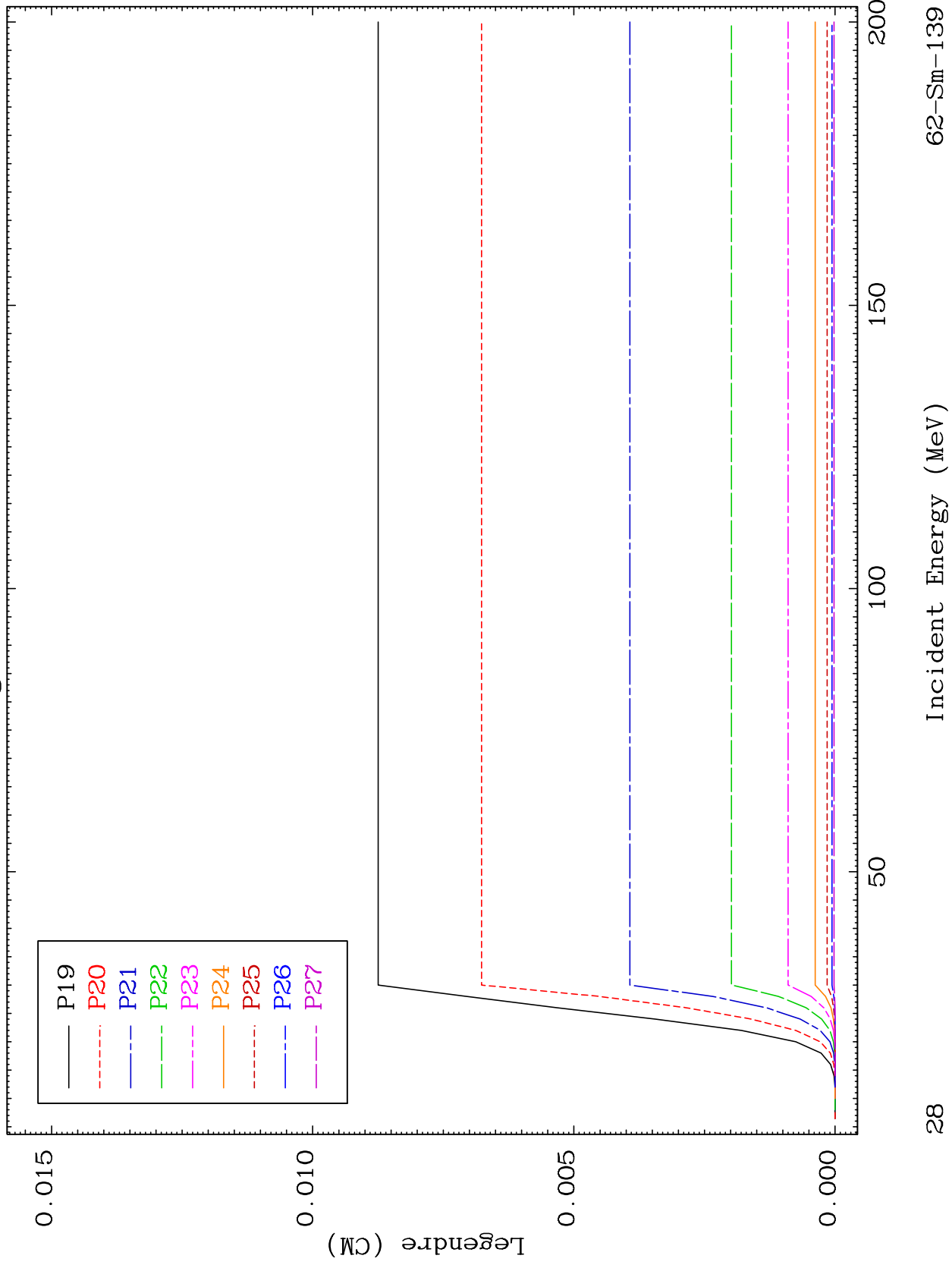
62-Sm-139



MAT 6210

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

62-Sm-139



28

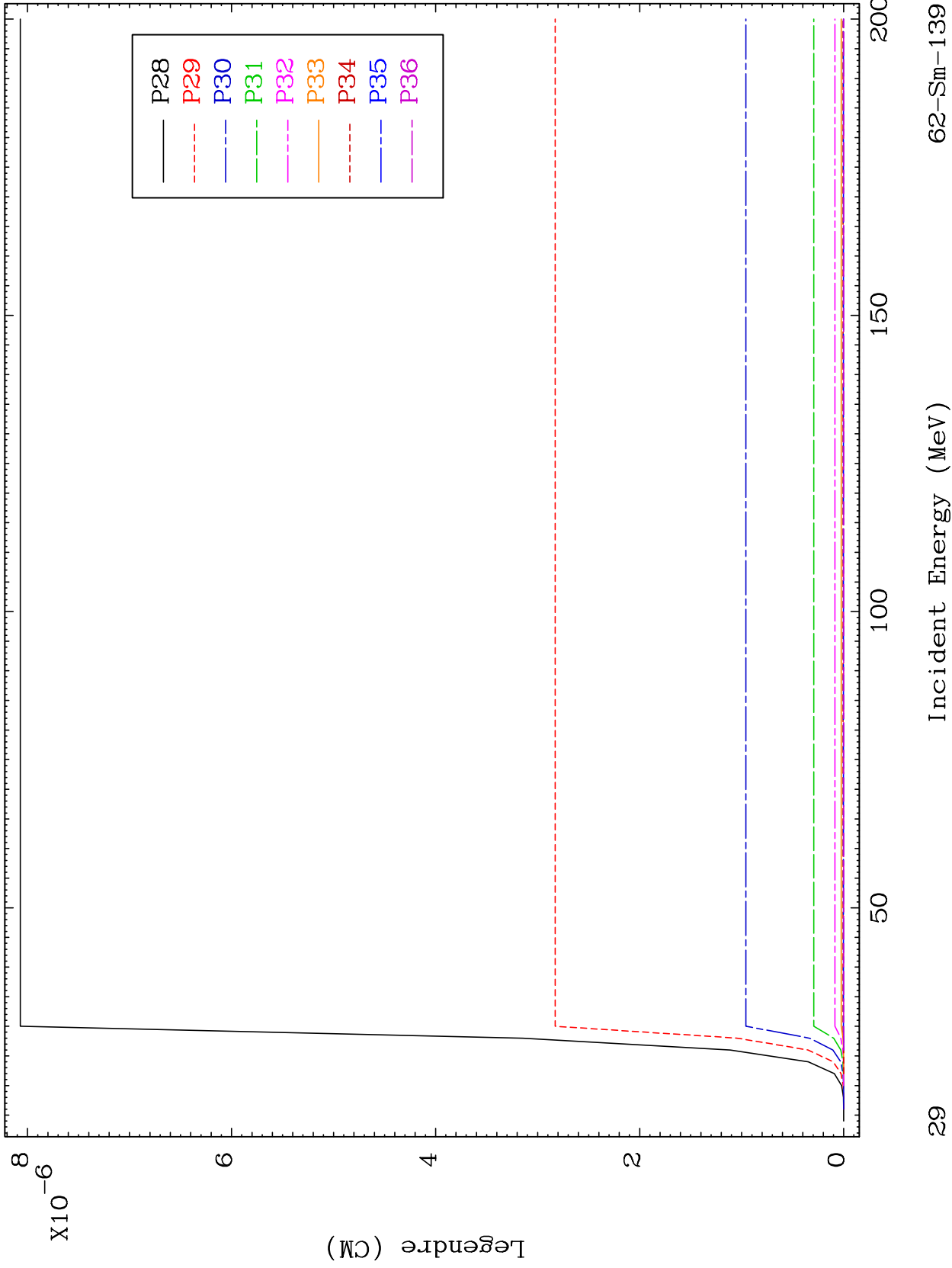
Incident Energy (MeV)

62-Sm-139

MAT 6210

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

62-Sm-139



29

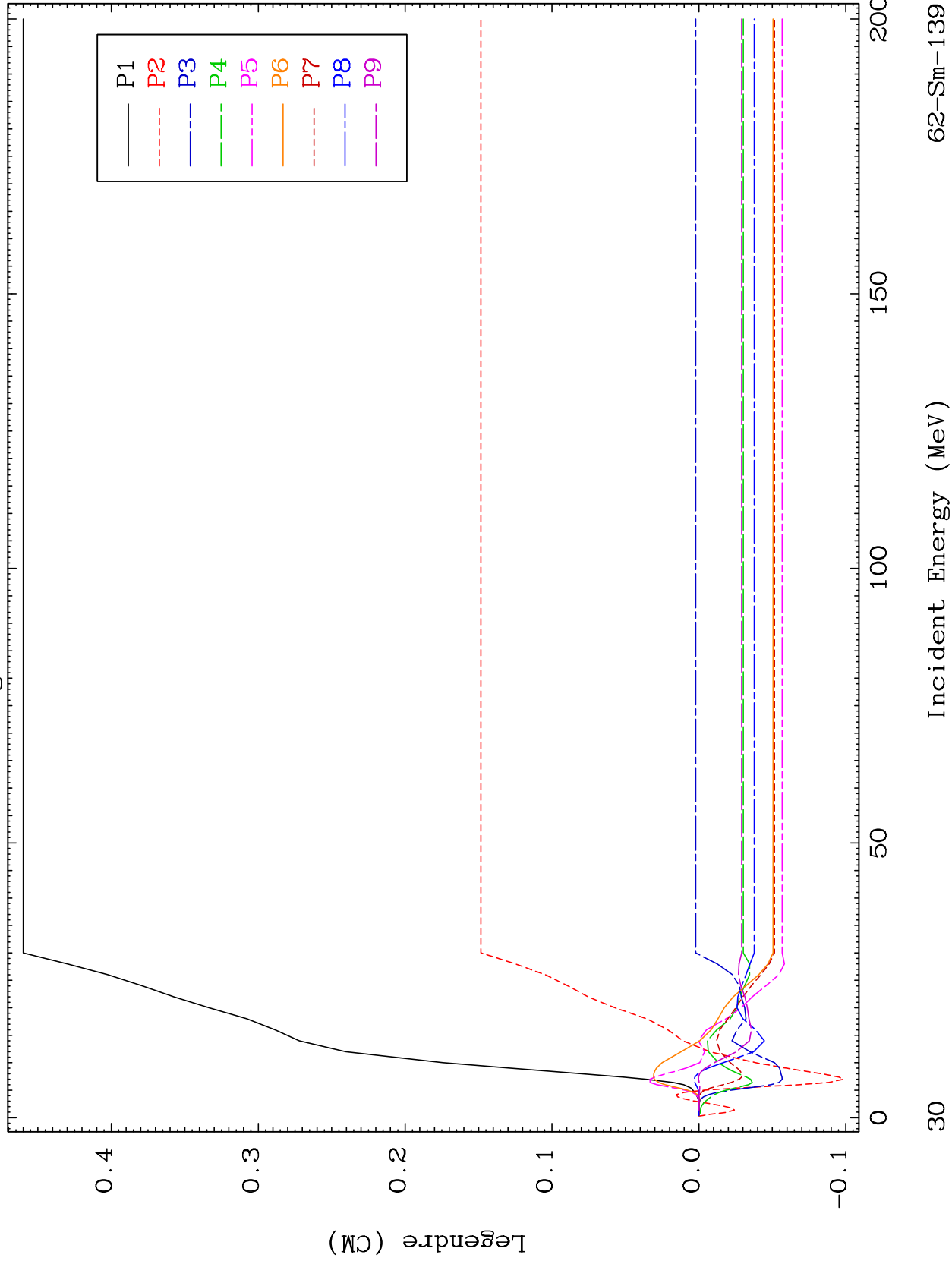
Incident Energy (MeV)

62-Sm-139

MAT 6210

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

62-Sm-139

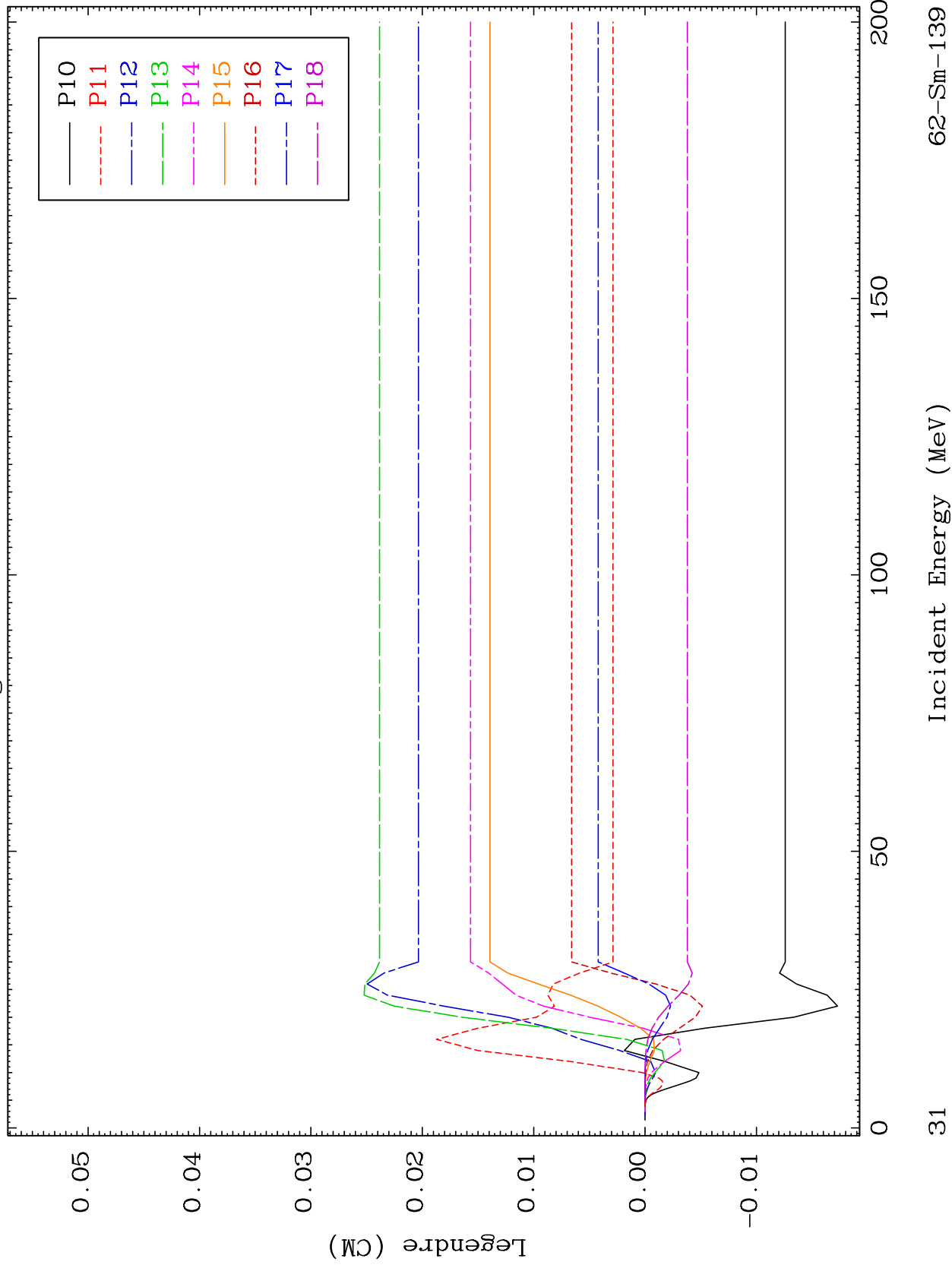


62-Sm-139

MAT 6210

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

62-Sm-139



31

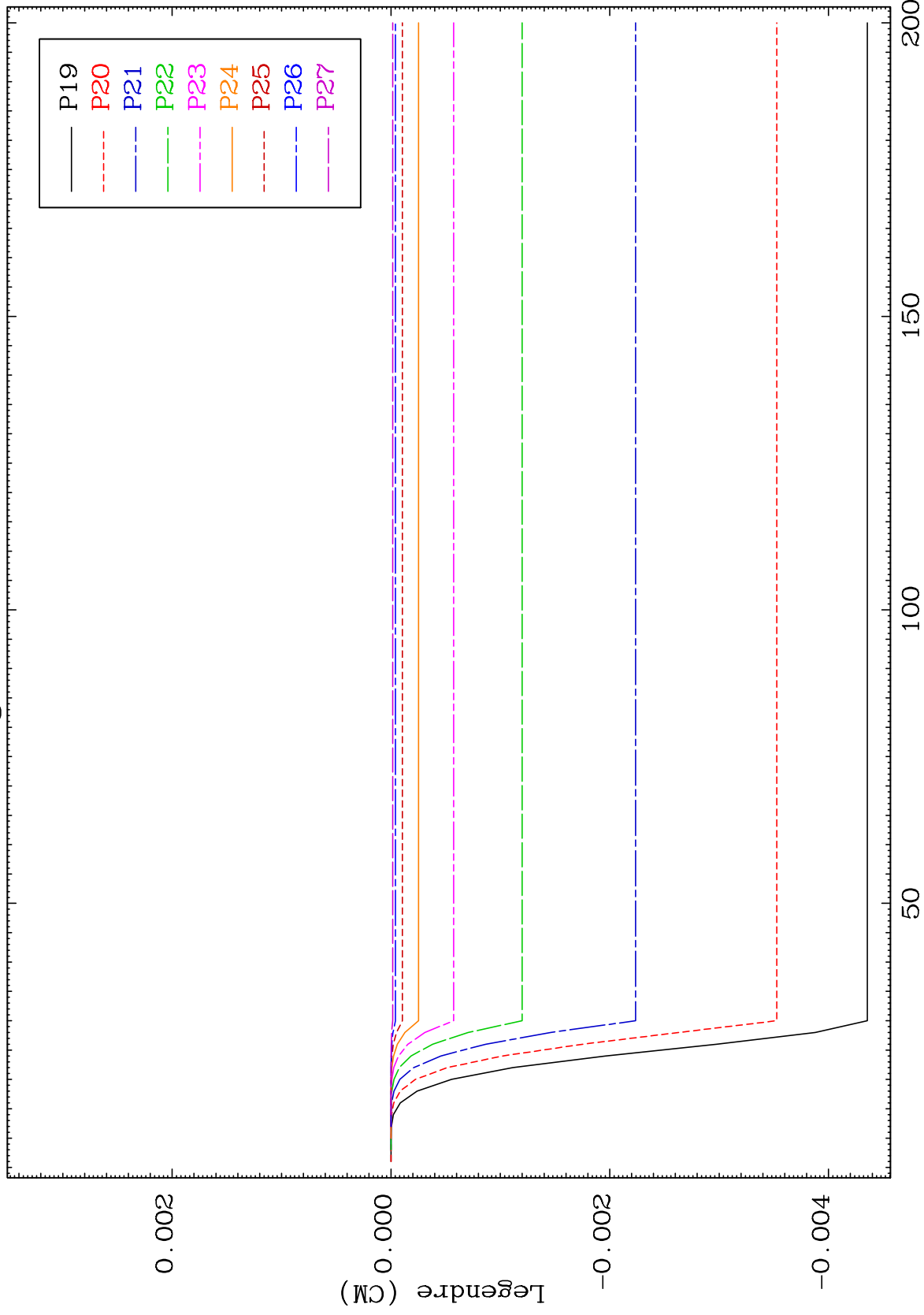
Incident Energy (MeV)

62-Sm-139

MAT 6210

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

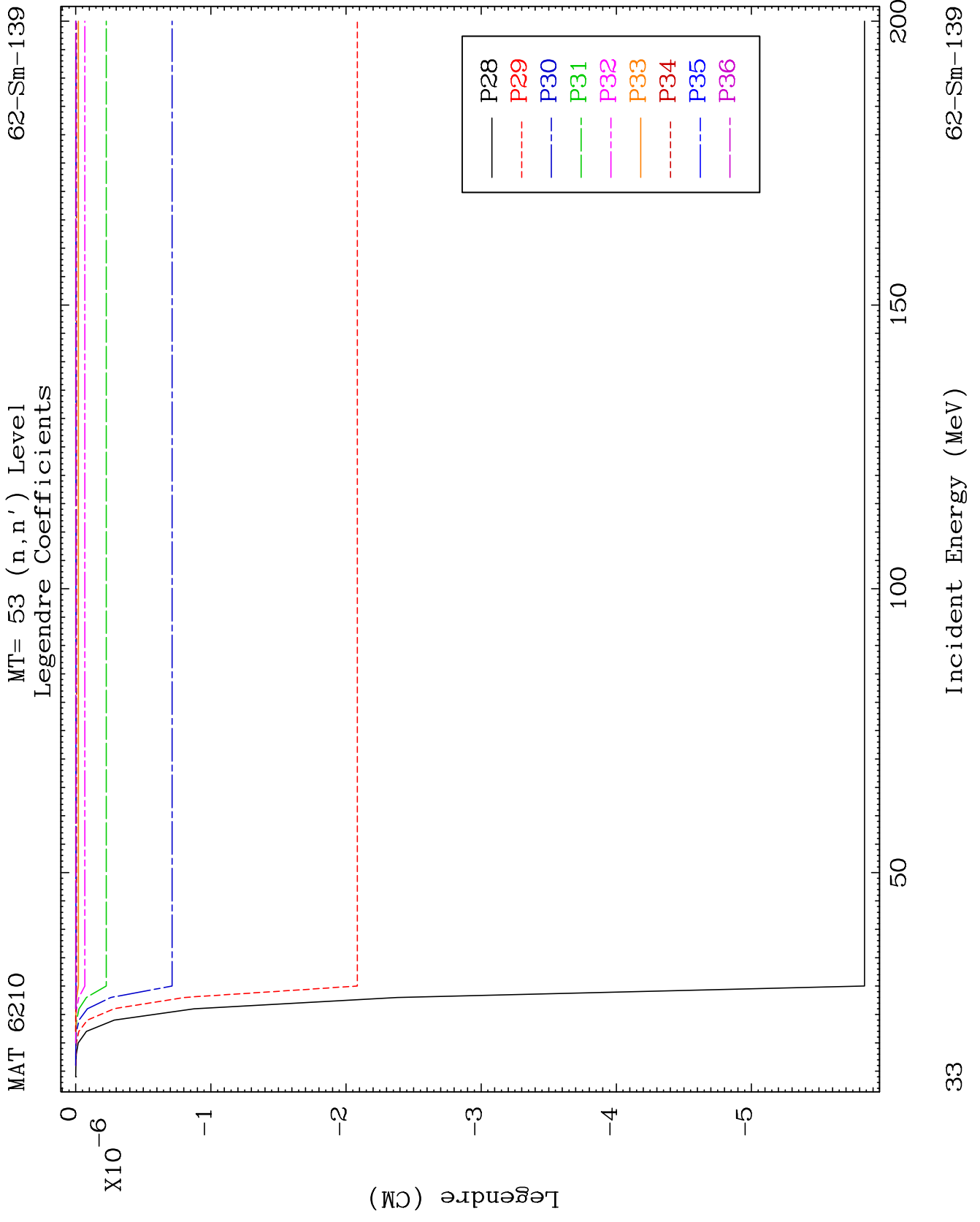
62-Sm-139



32

Incident Energy (MeV)

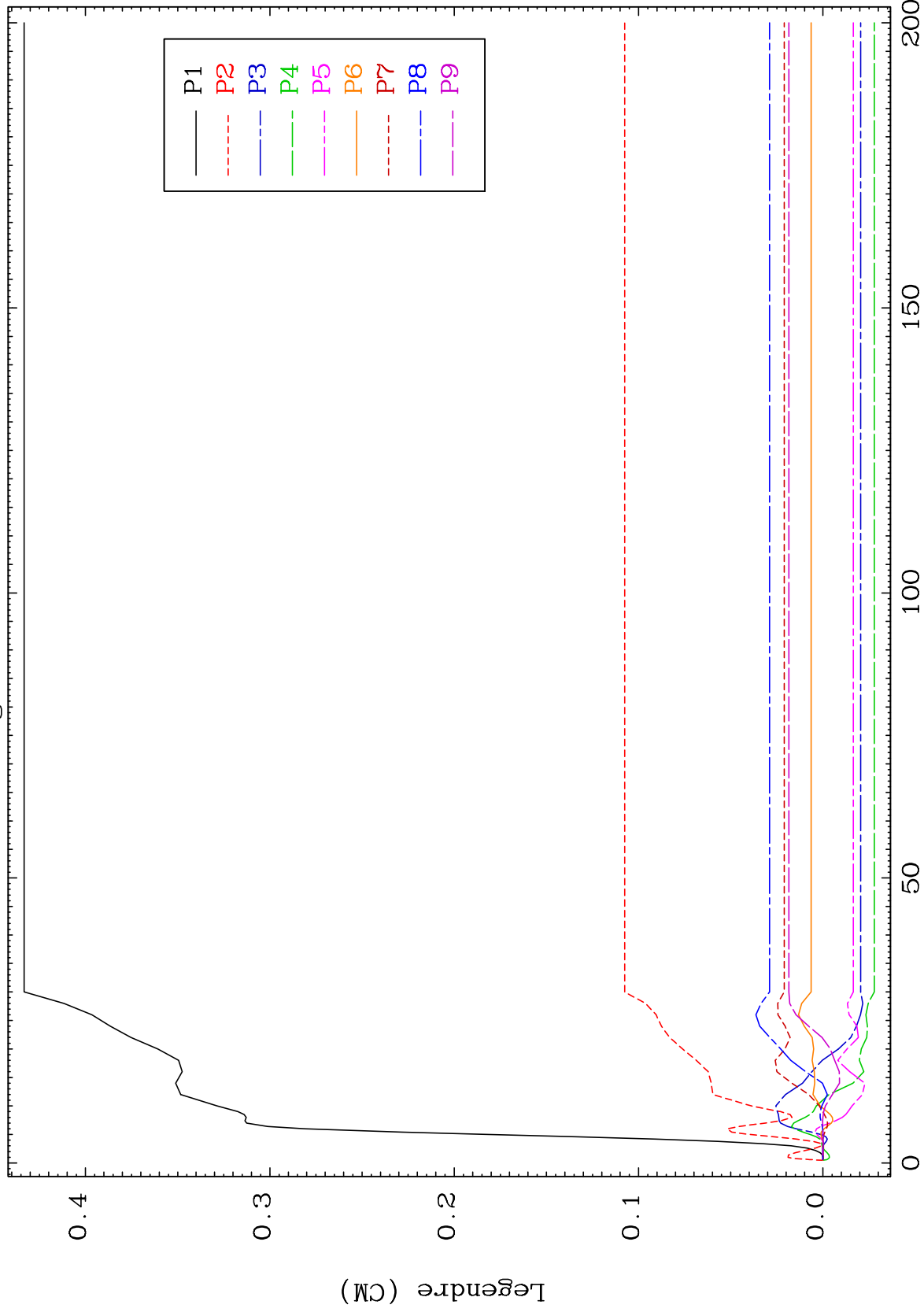
62-Sm-139



MAT 6210

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

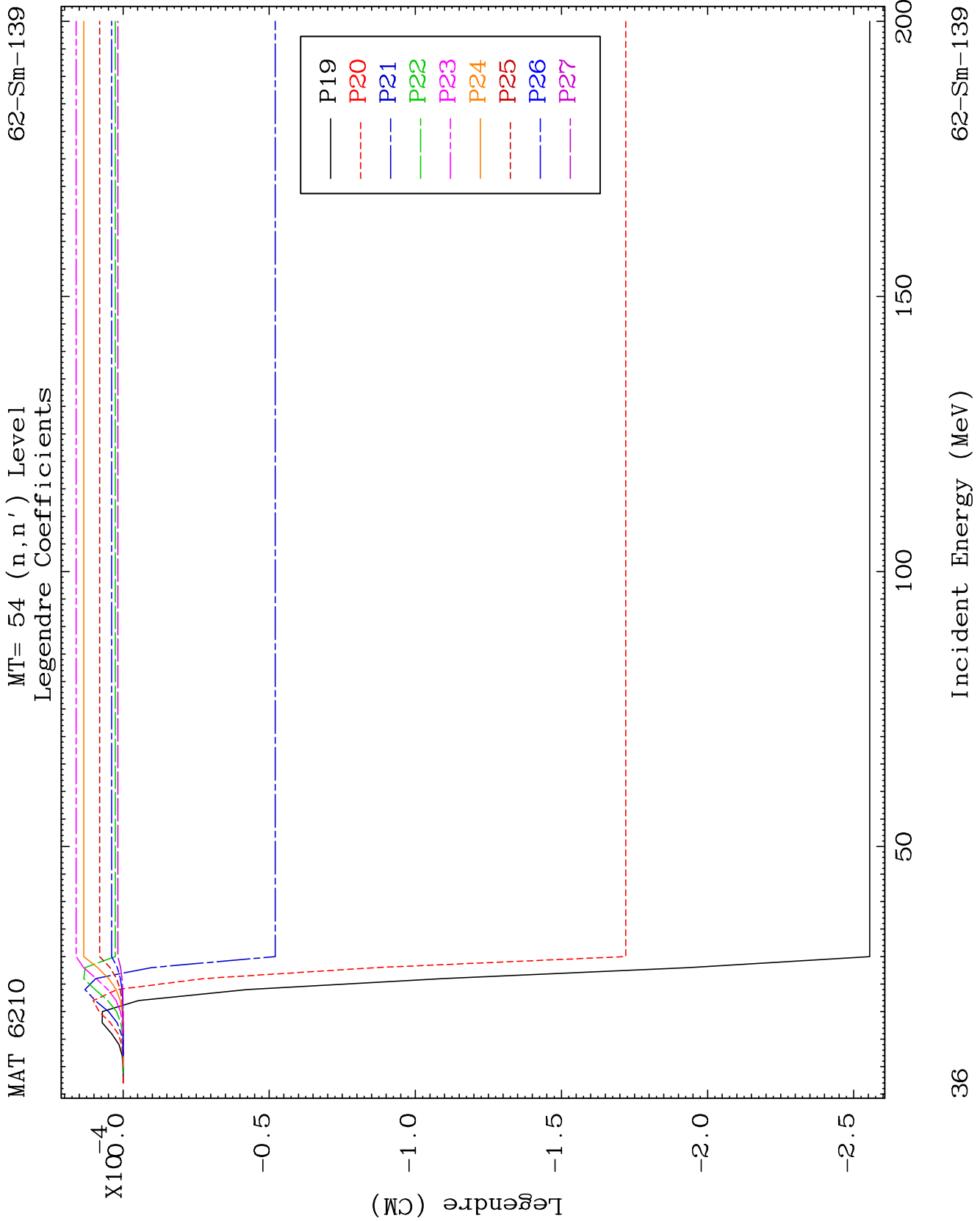
62-Sm-139



34

Incident Energy (MeV)

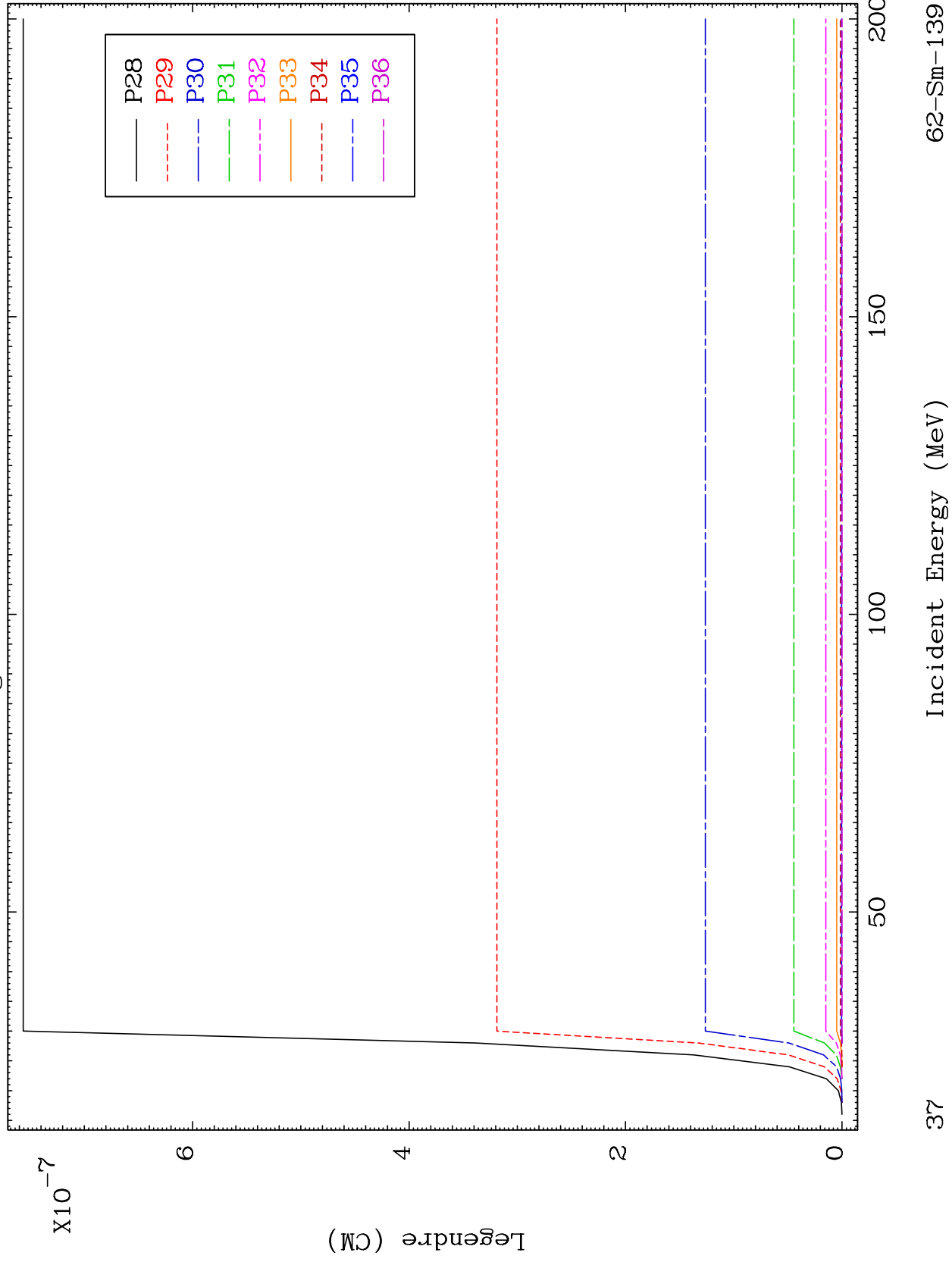
62-Sm-139



MAT 6210

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

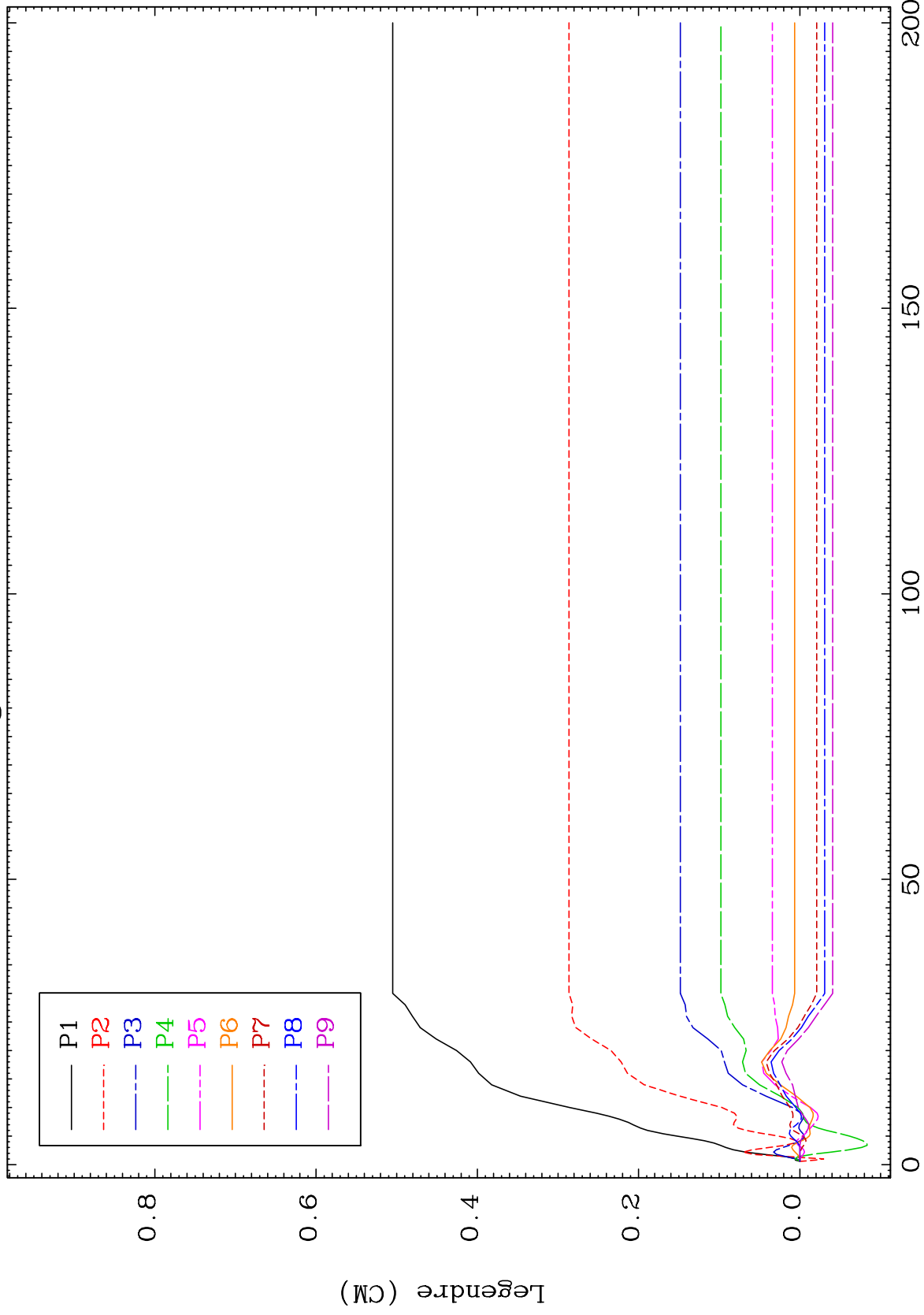
62-Sm-139



MAT 6210

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

62-Sm-139



62-Sm-139

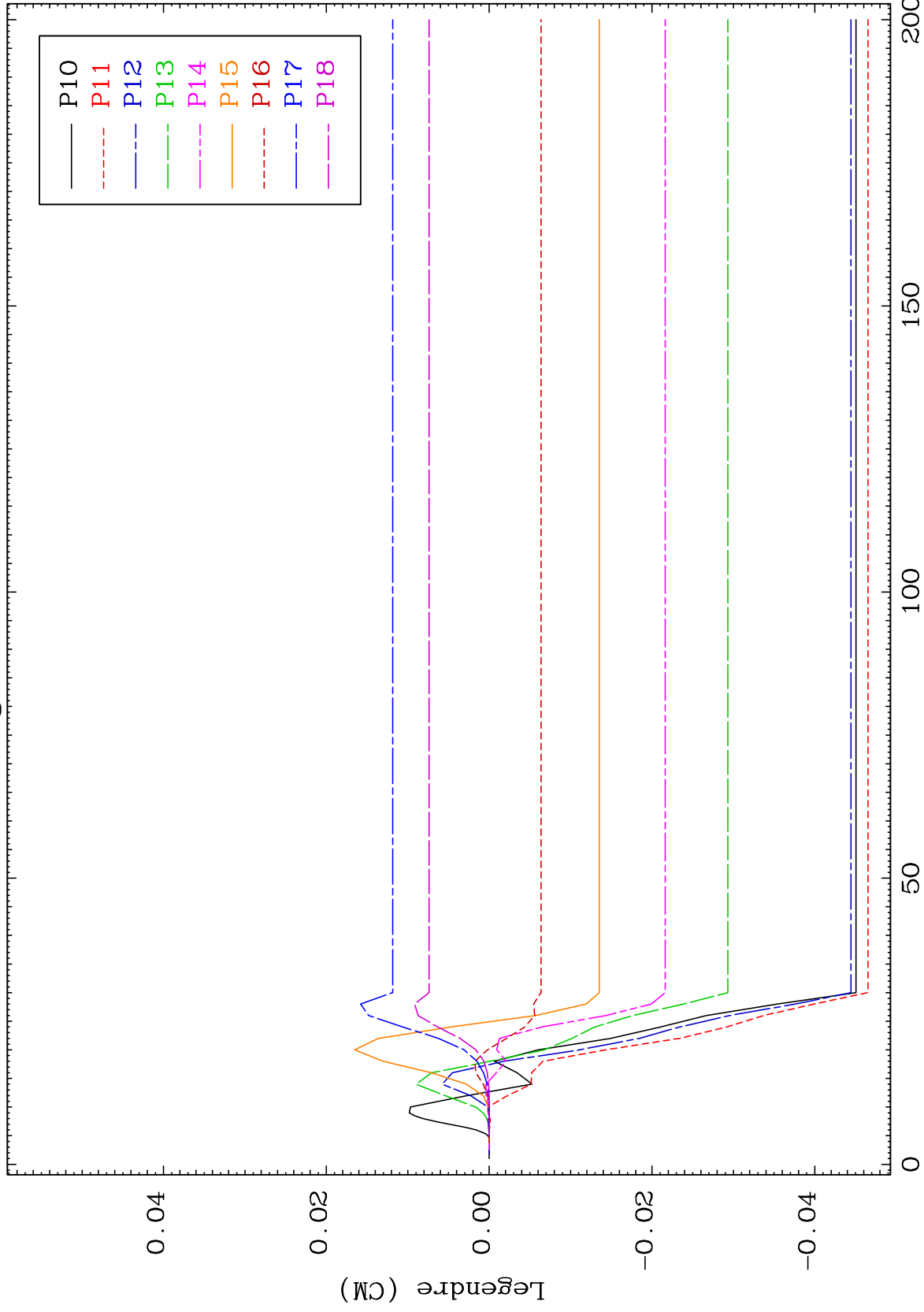
Incident Energy (MeV)

38

MAT 6210

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

62-Sm-139



39

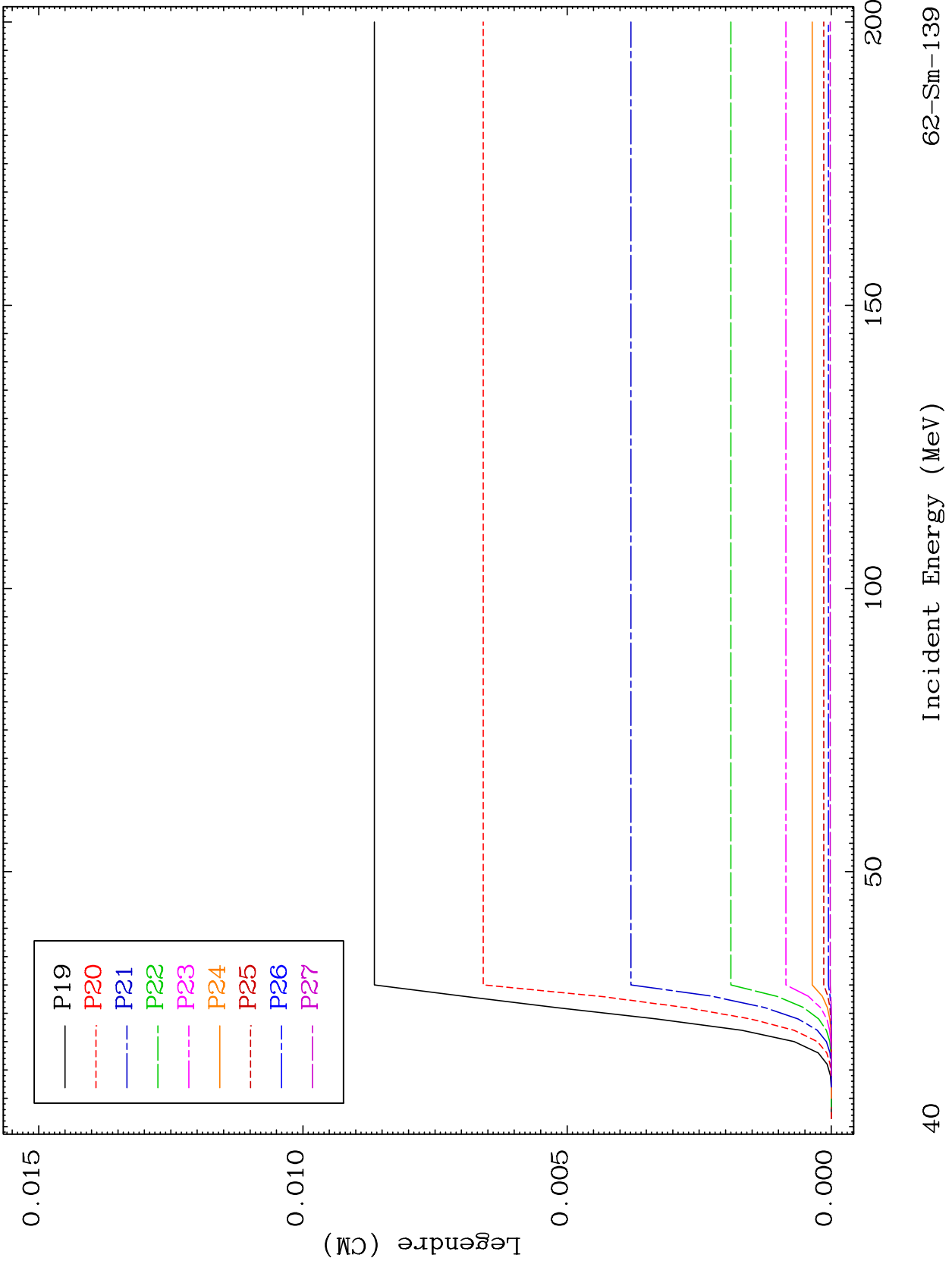
Incident Energy (MeV)

62-Sm-139

MAT 6210

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

62-Sm-139



62-Sm-139

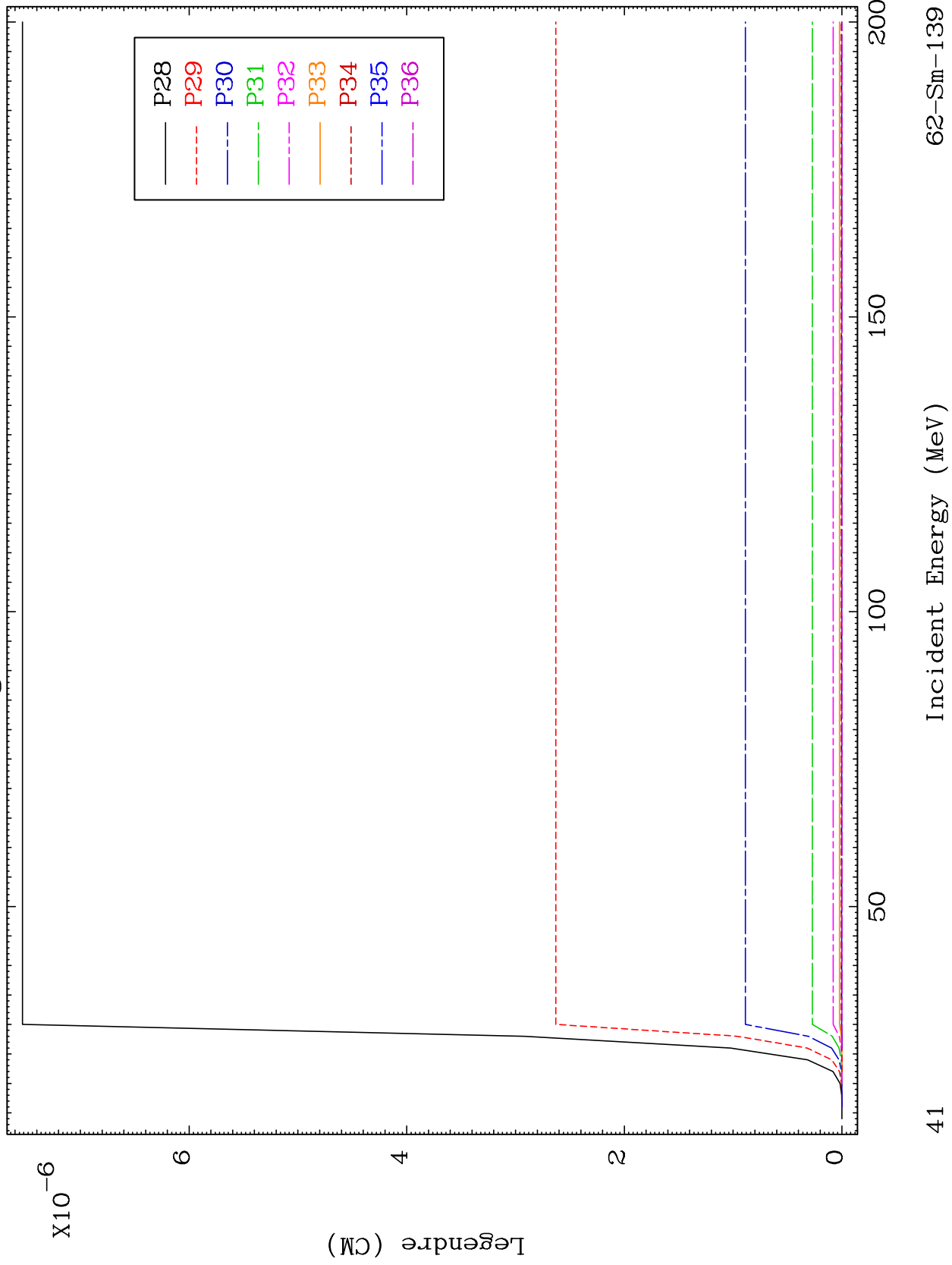
Incident Energy (MeV)

40

MAT 6210

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

62-Sm-139



41

62-Sm-139

MAT 6210

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

62-Sm-139



62-Sm-139

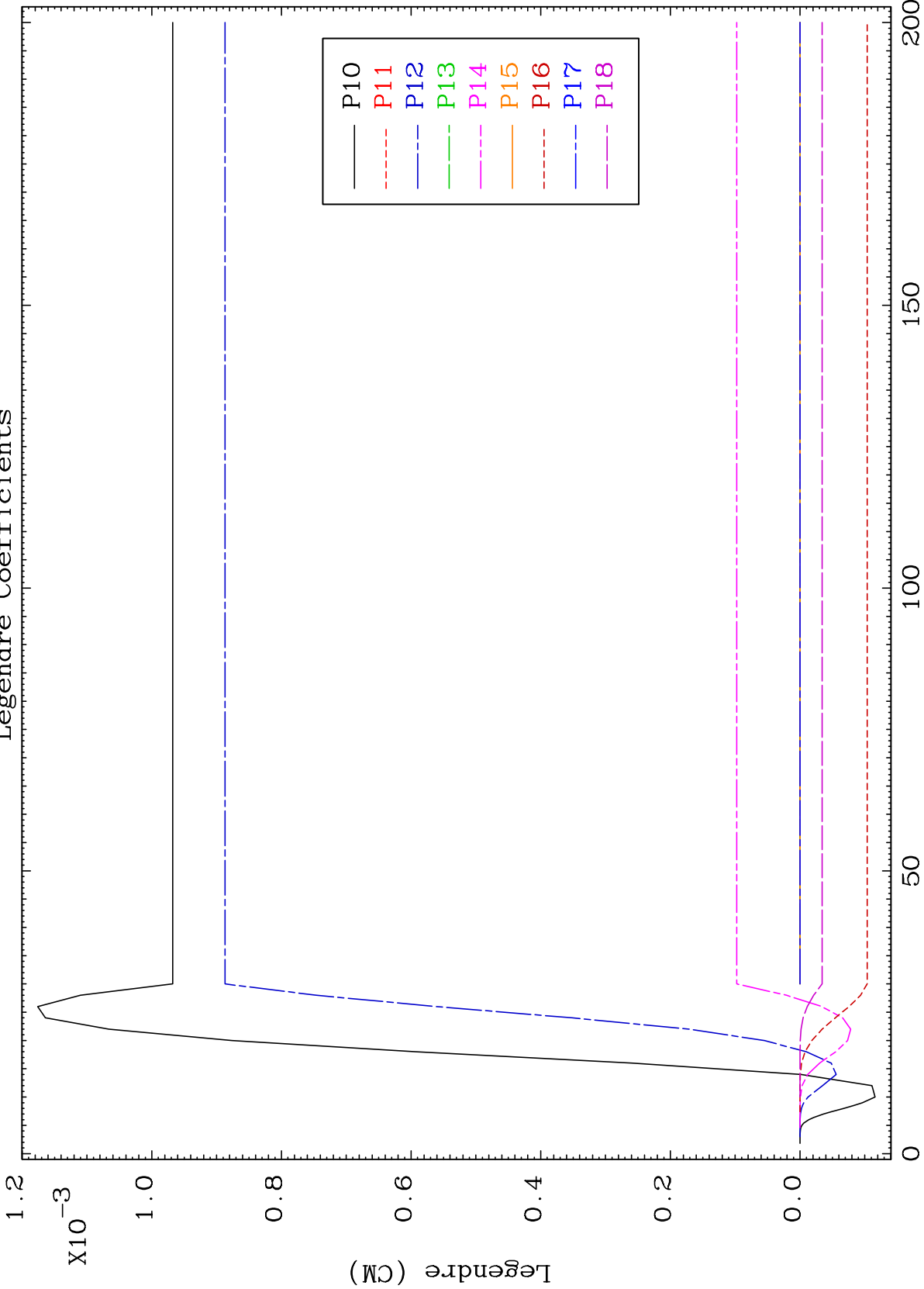
Incident Energy (MeV)

42

MAT 6210

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

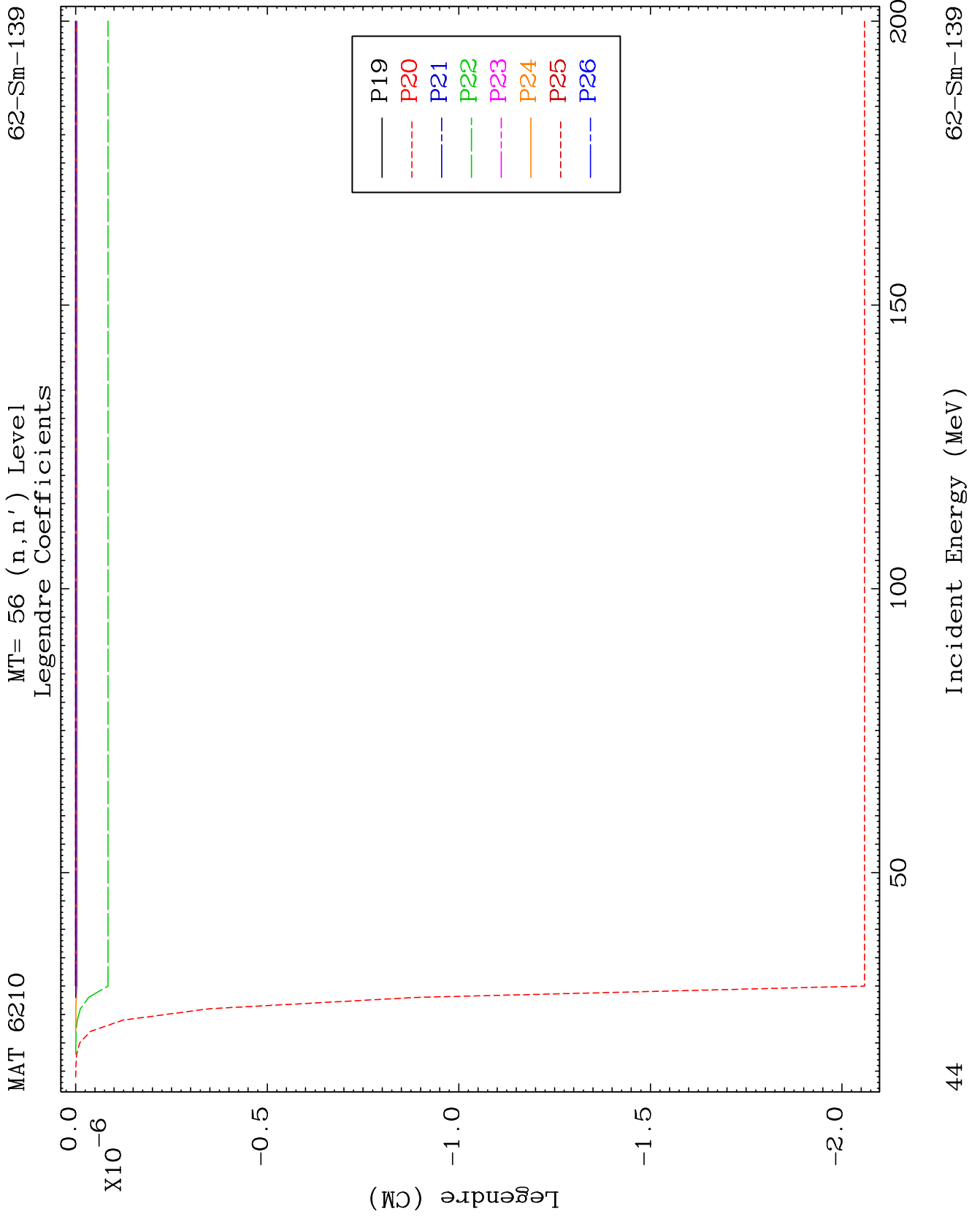
62-Sm-139



43

Incident Energy (MeV)

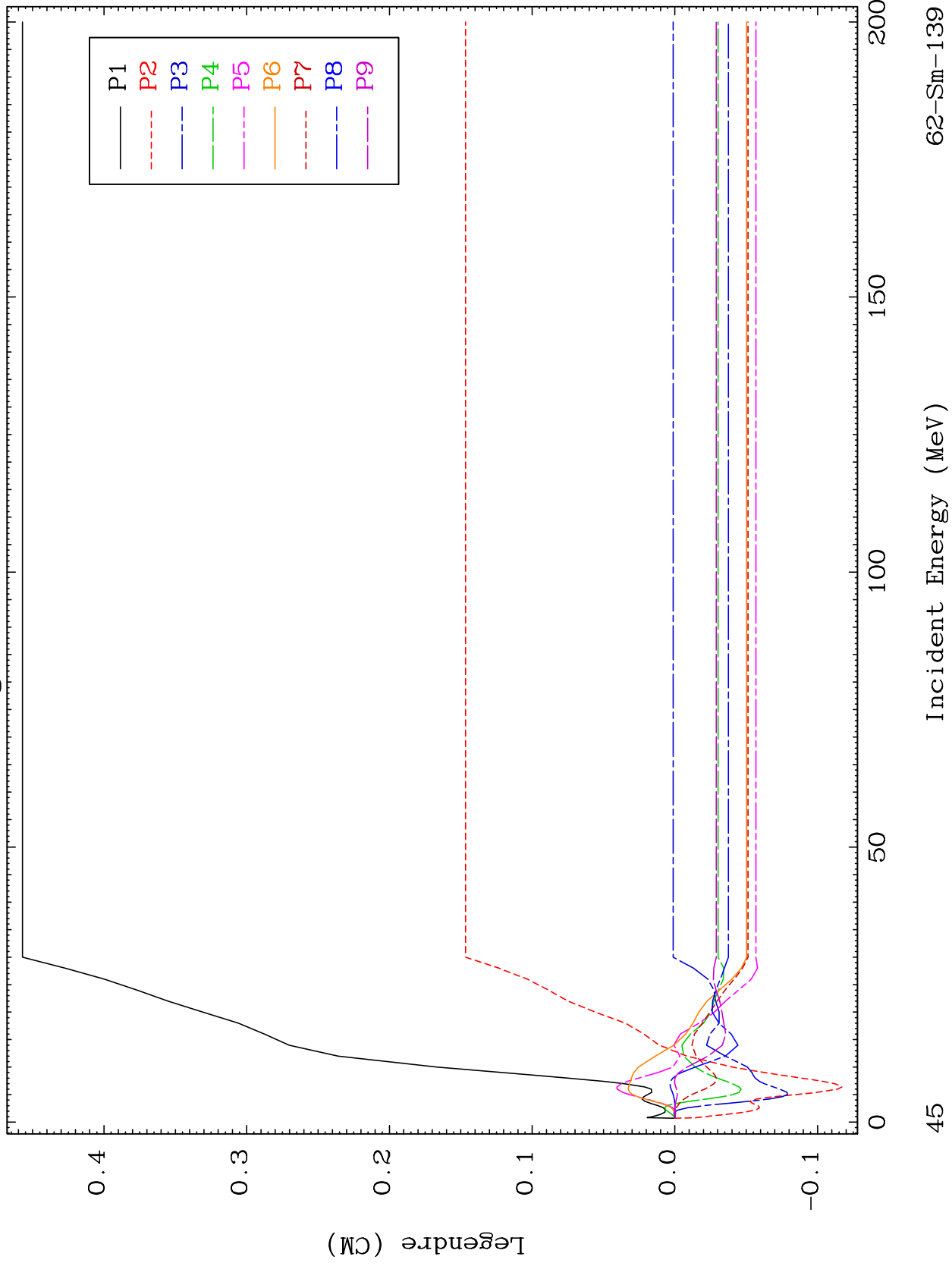
62-Sm-139



MAT 6210

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

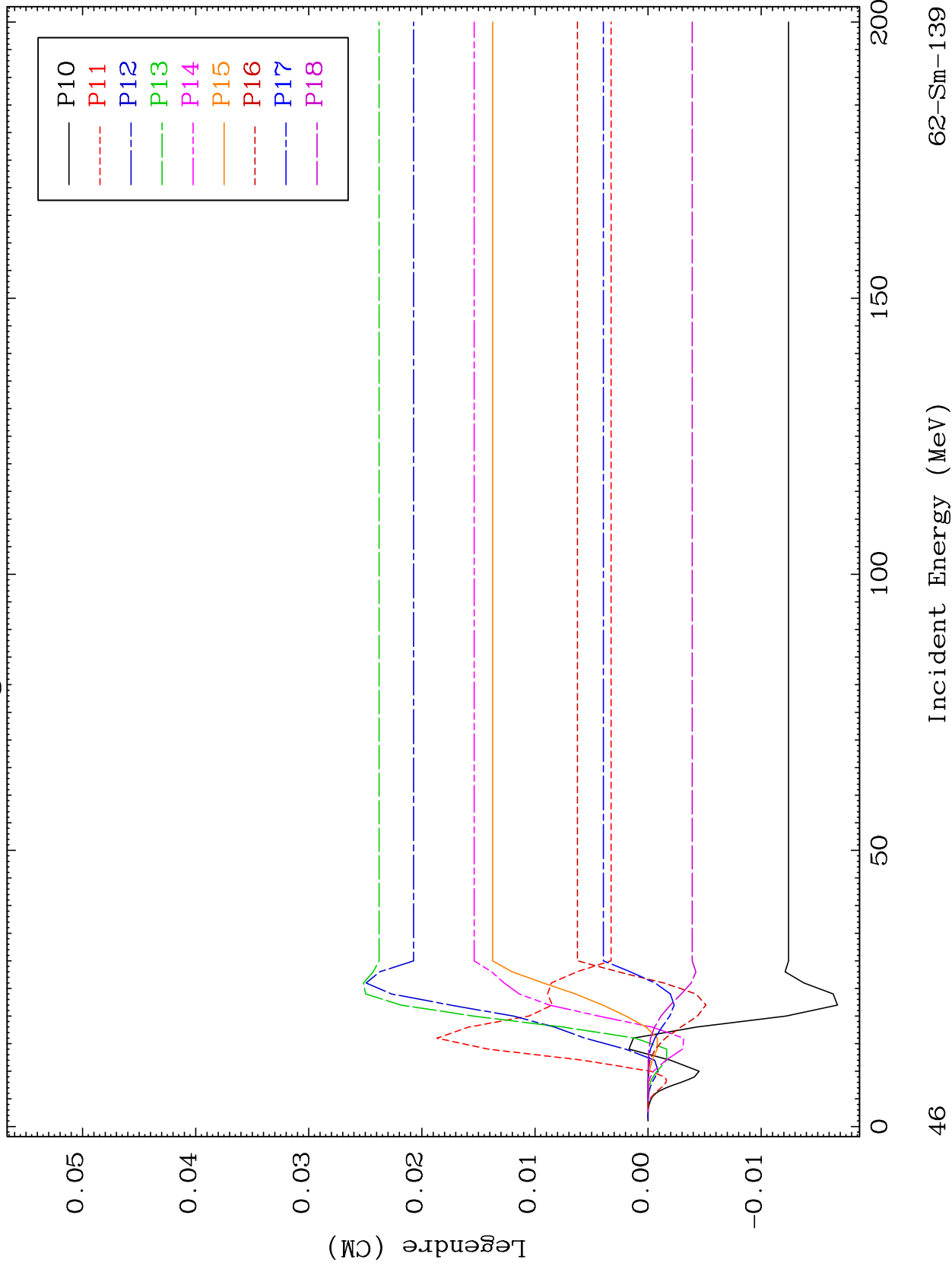
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MAT 6210

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

62-Sm-139



62-Sm-139

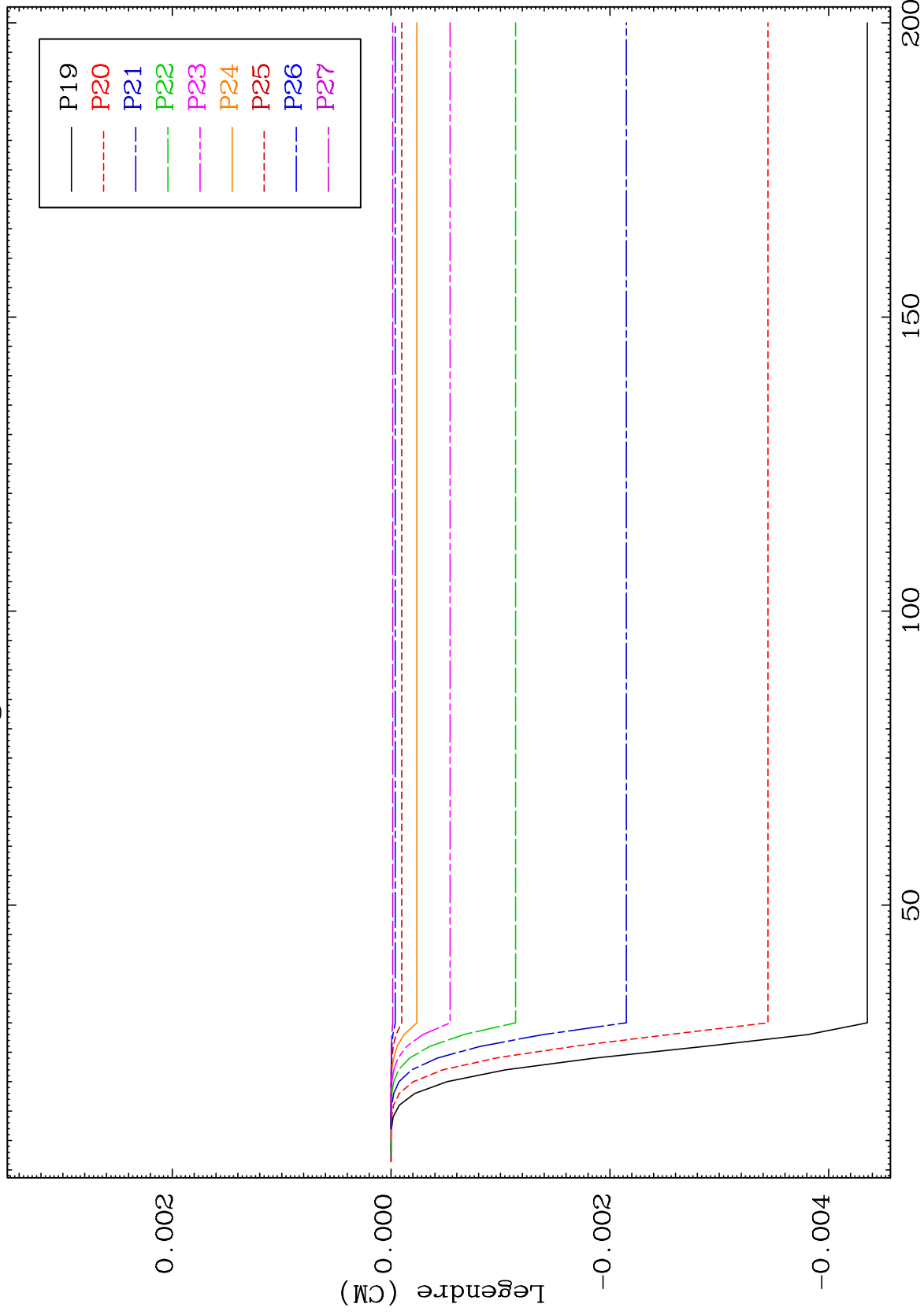
Incident Energy (MeV)

46

MAT 6210

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

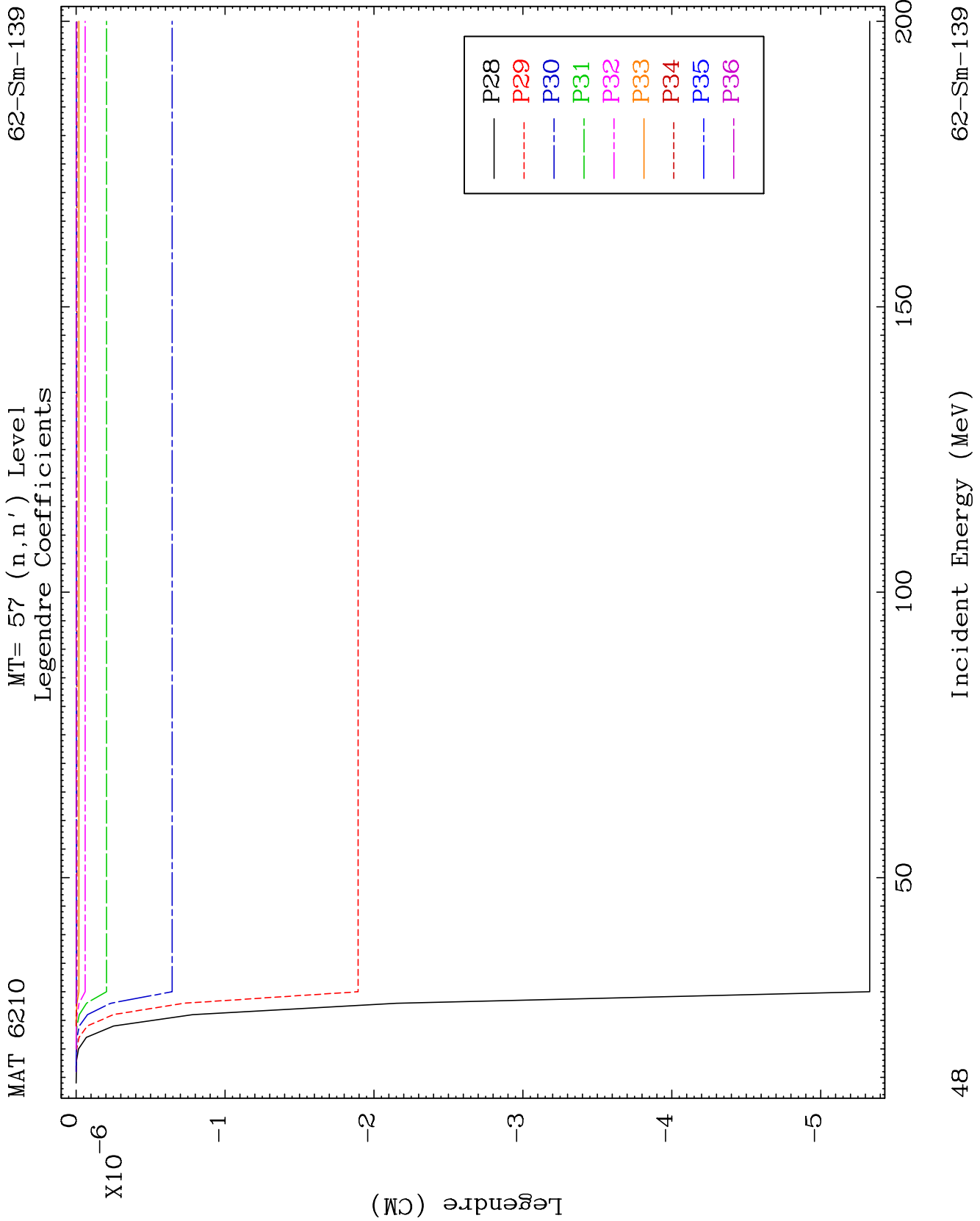
62-Sm-139



47

Incident Energy (MeV)

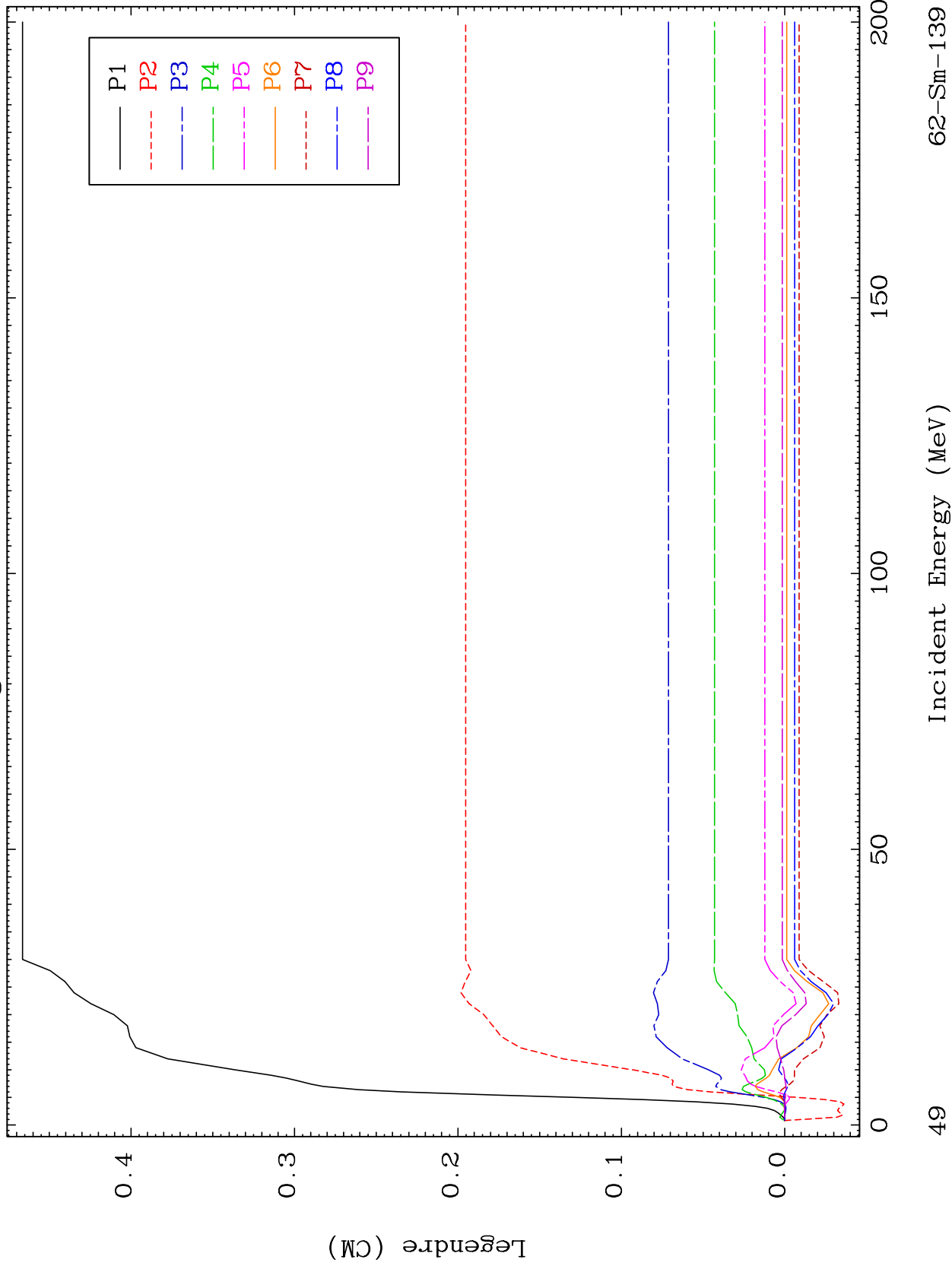
62-Sm-139



MAT 6210

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

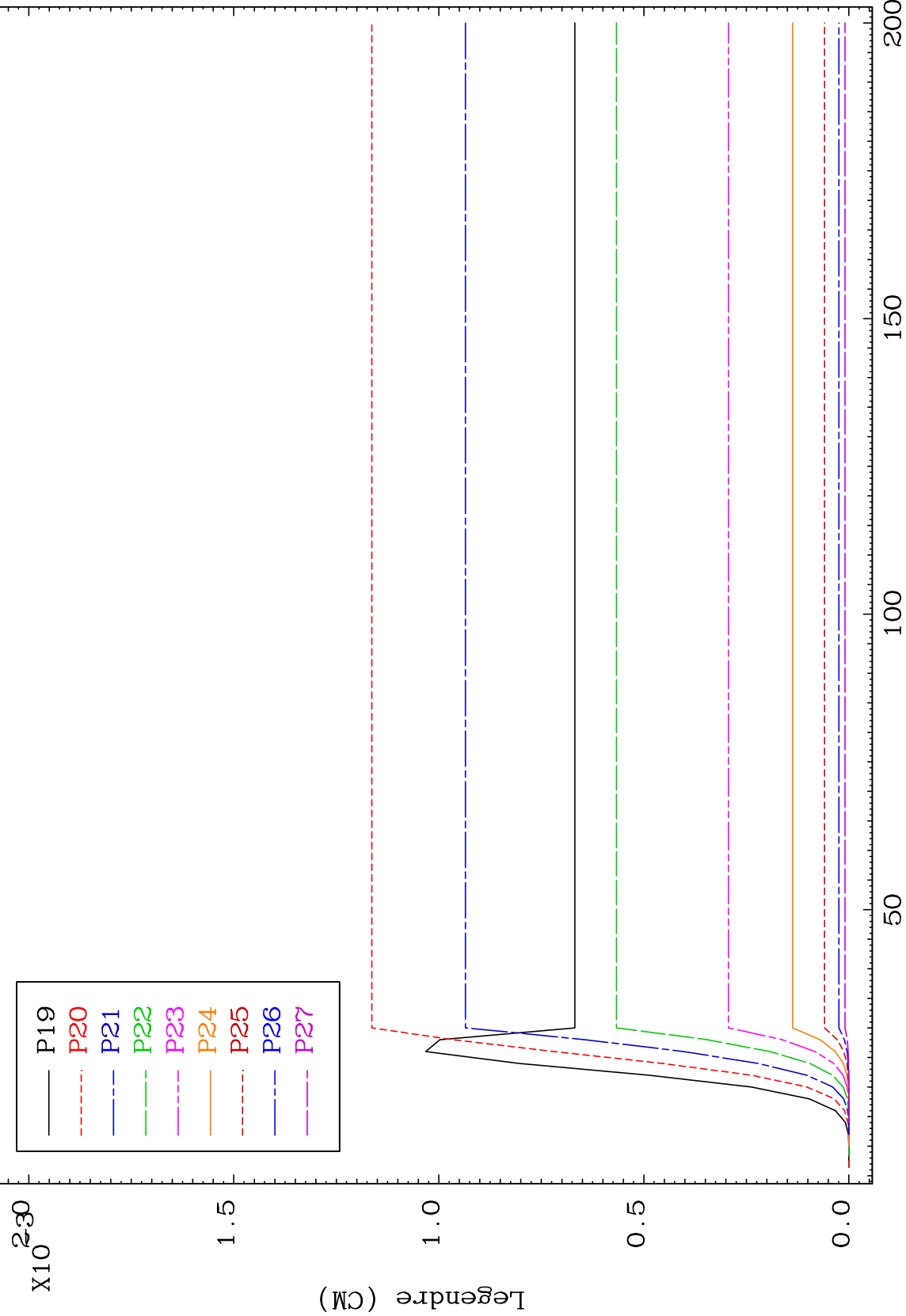
62-Sm-139



62-Sm-139

Incident Energy (MeV)

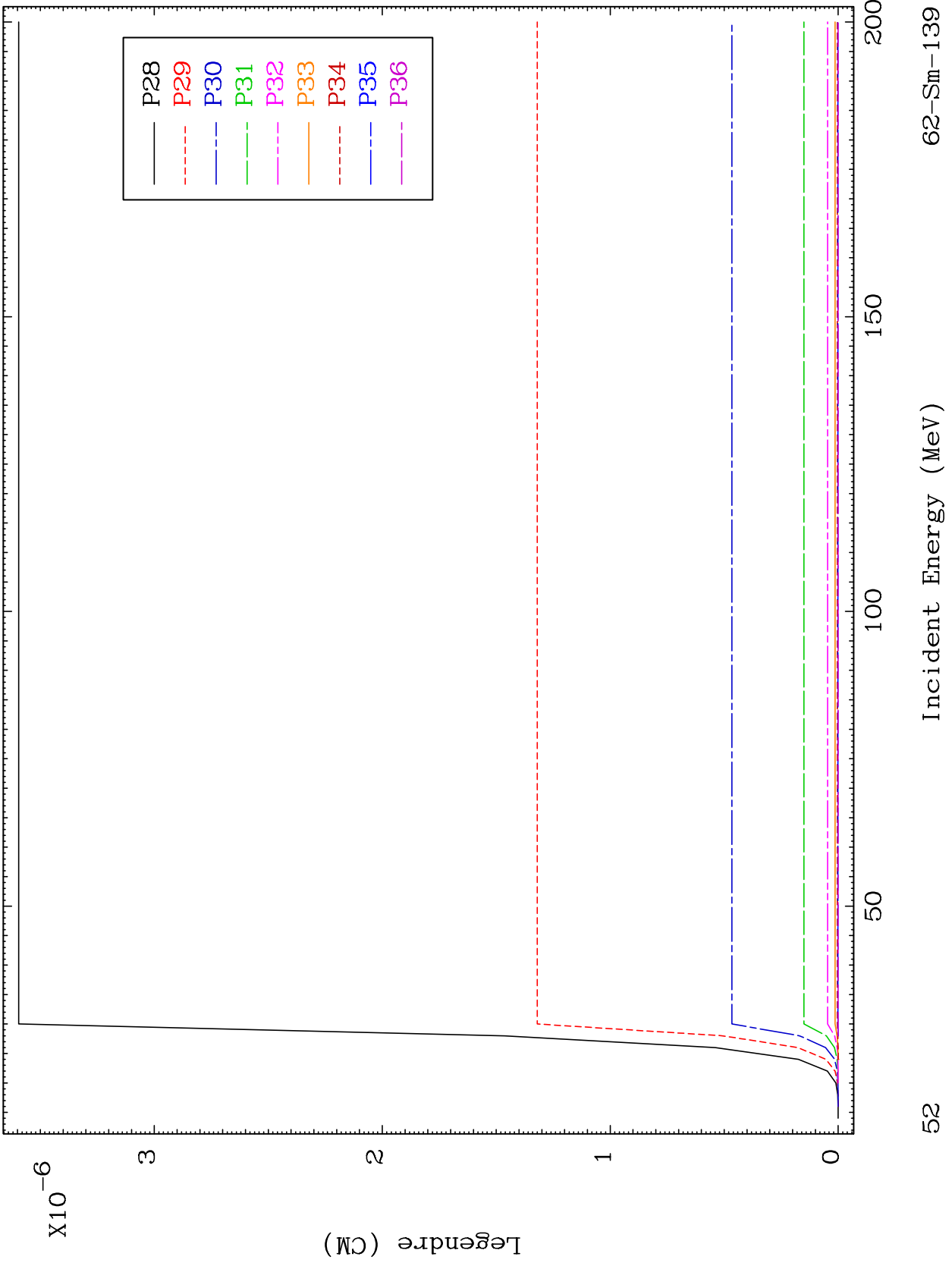
49



MAT 6210

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

62-Sm-139



52

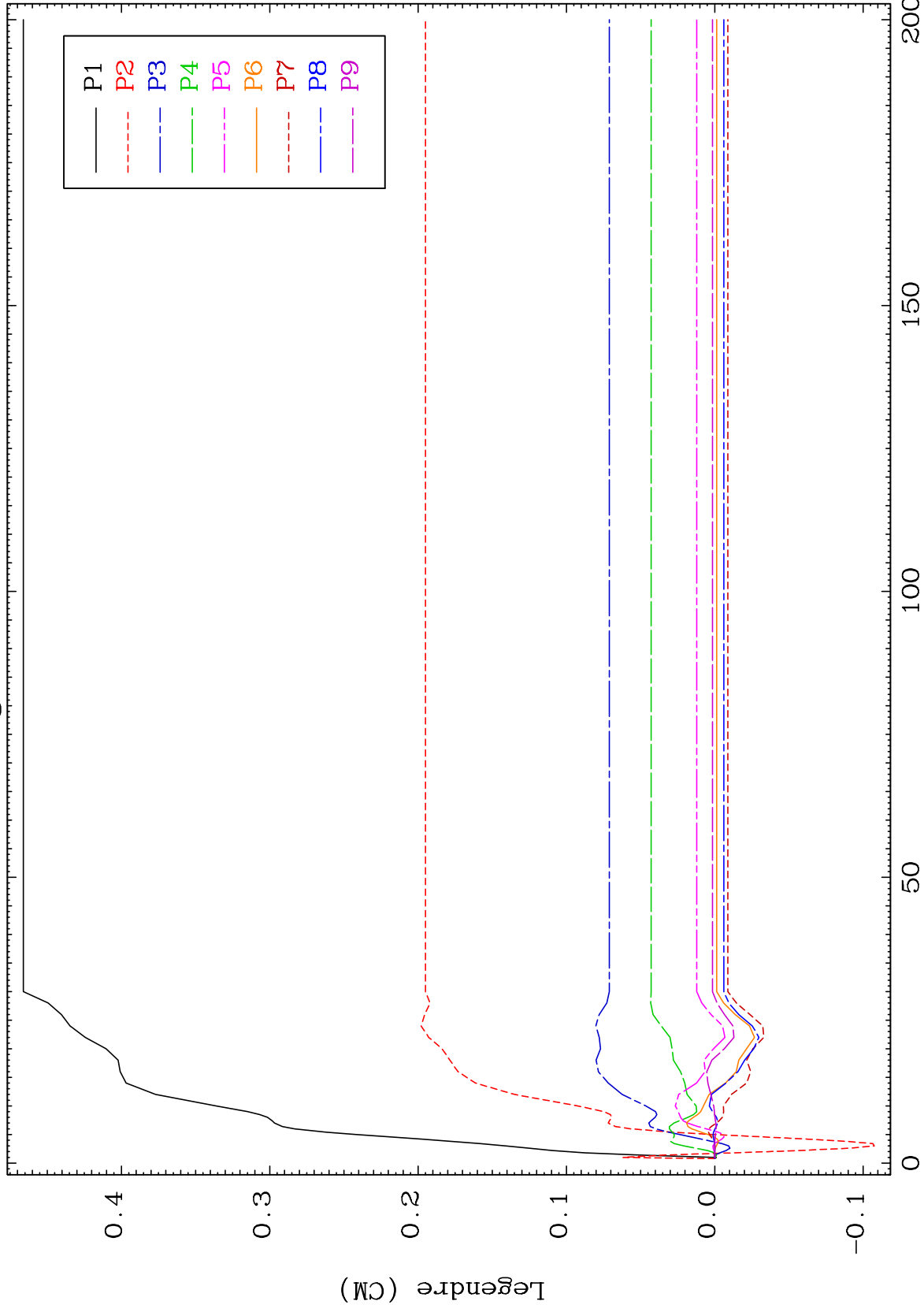
Incident Energy (MeV)

62-Sm-139

MAT 6210

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

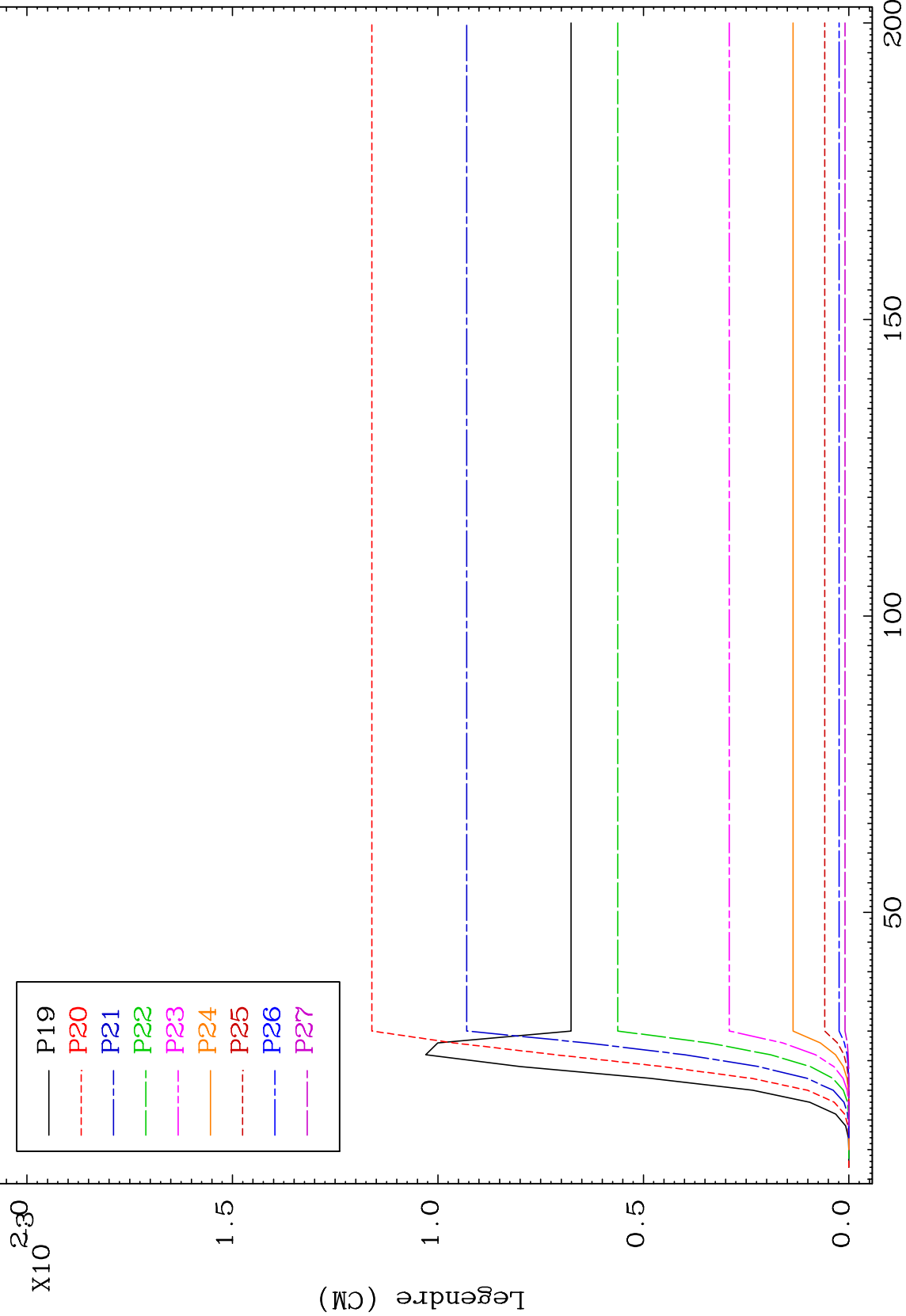
62-Sm-139



53

Incident Energy (MeV)

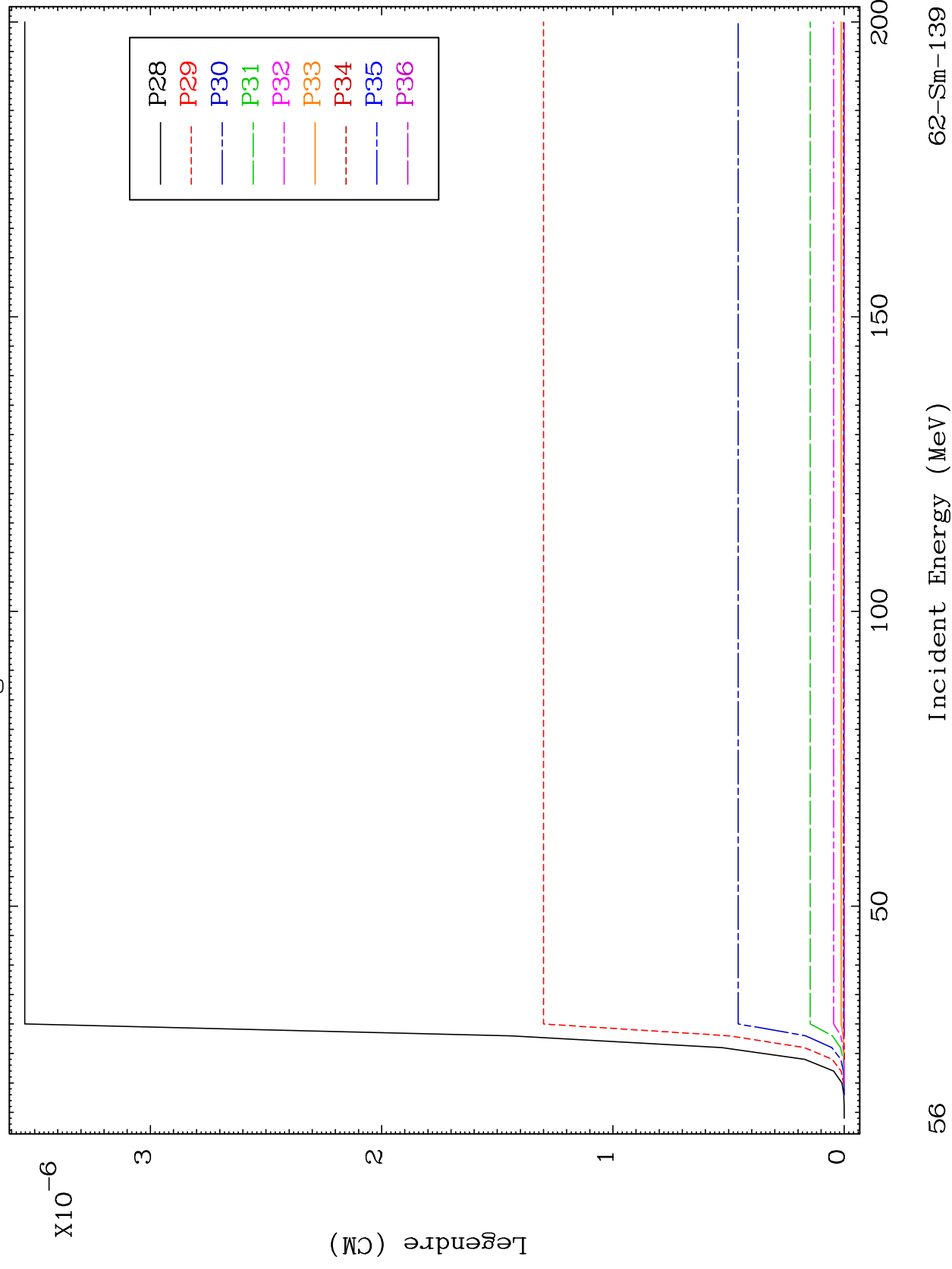
62-Sm-139



MAT 6210

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

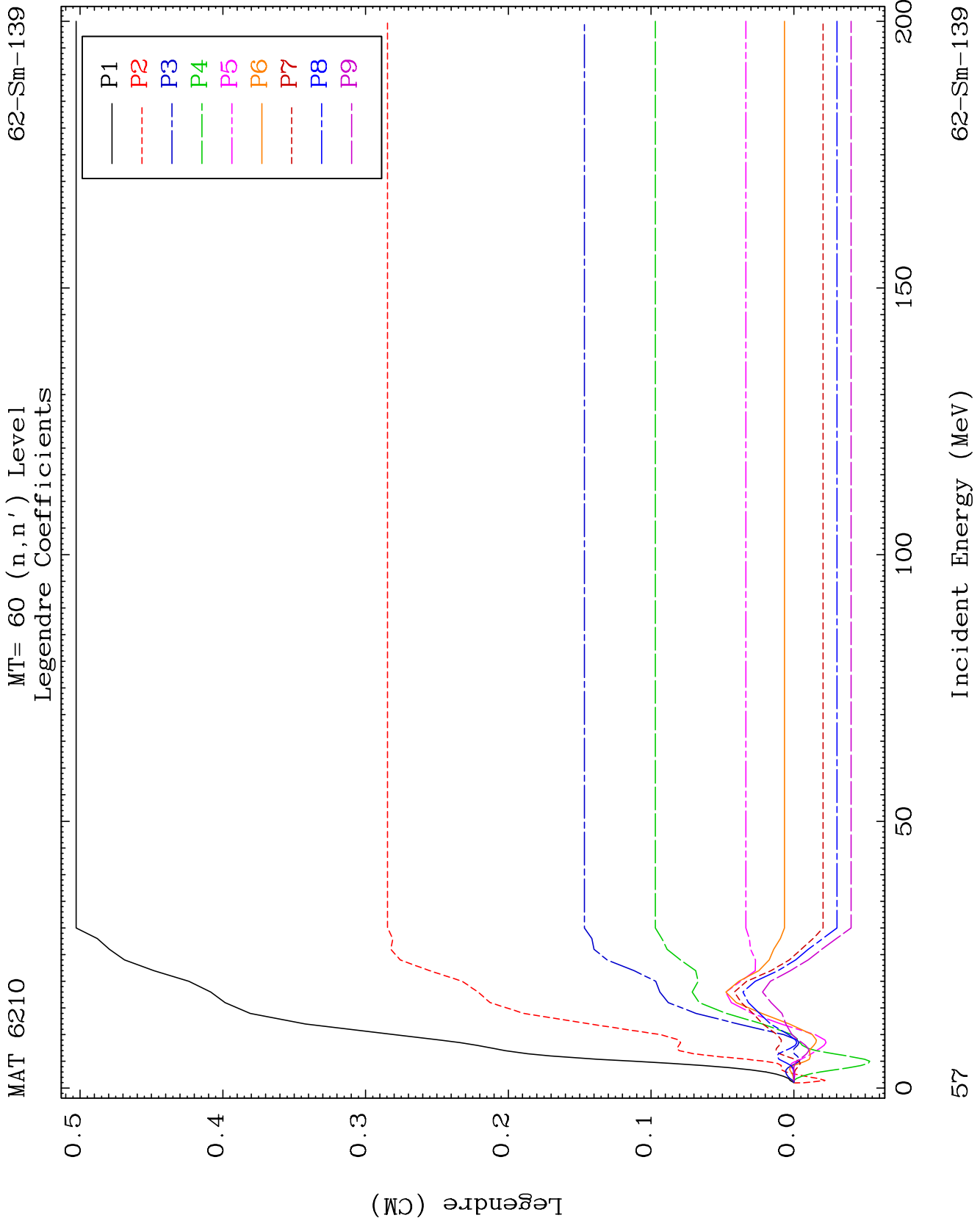
62-Sm-139

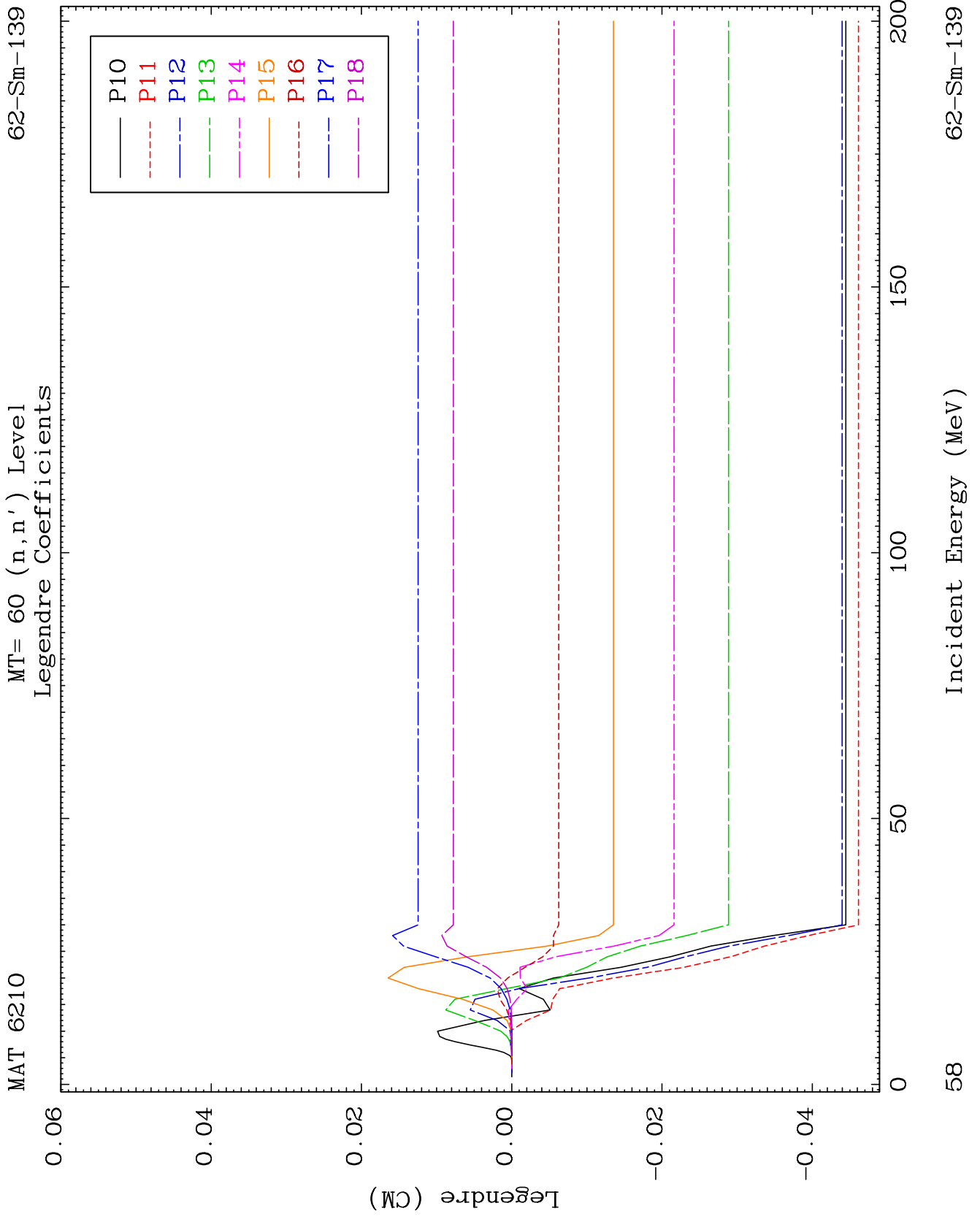


56

Incident Energy (MeV)

62-Sm-139

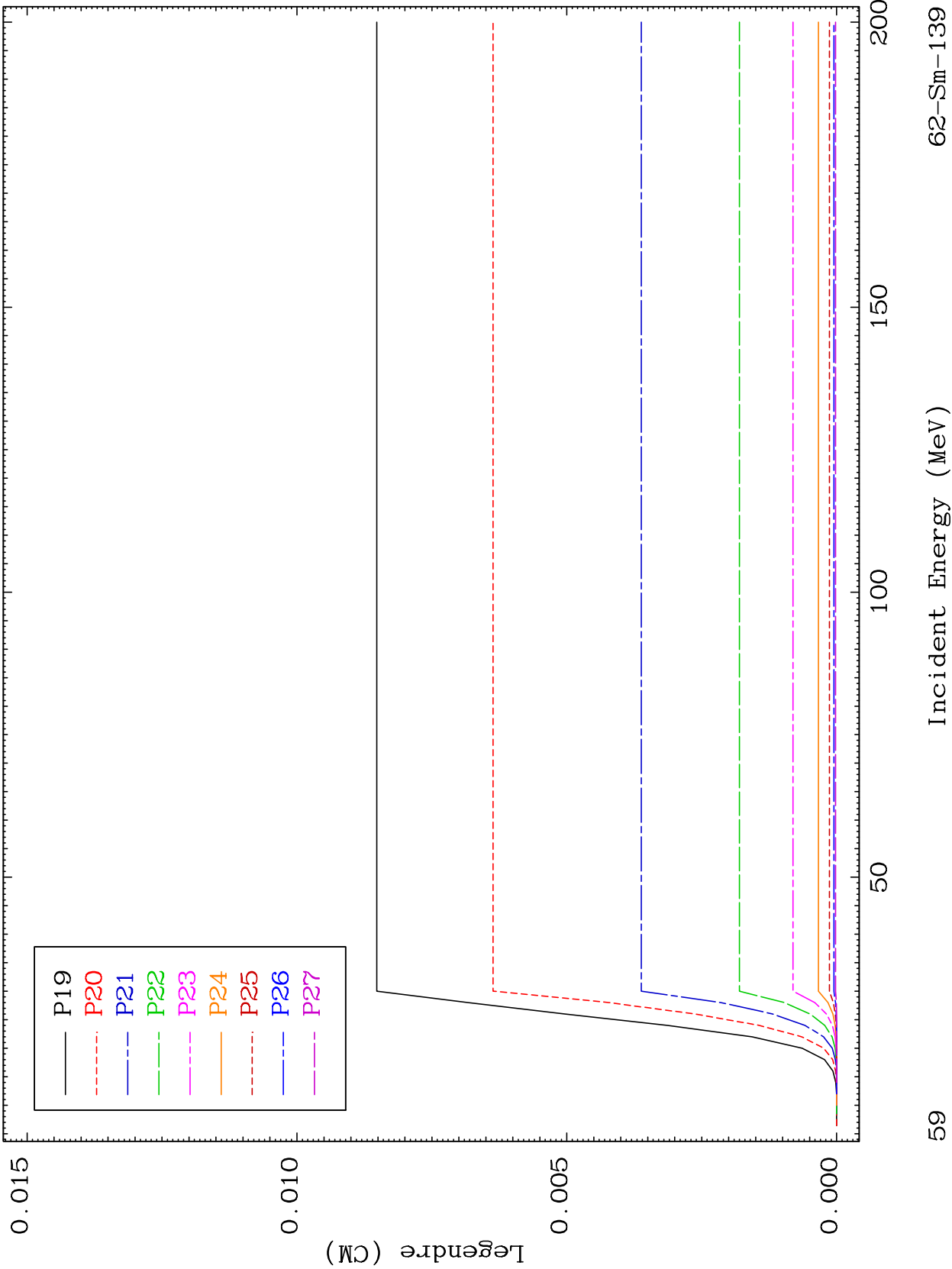




MAT 6210

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

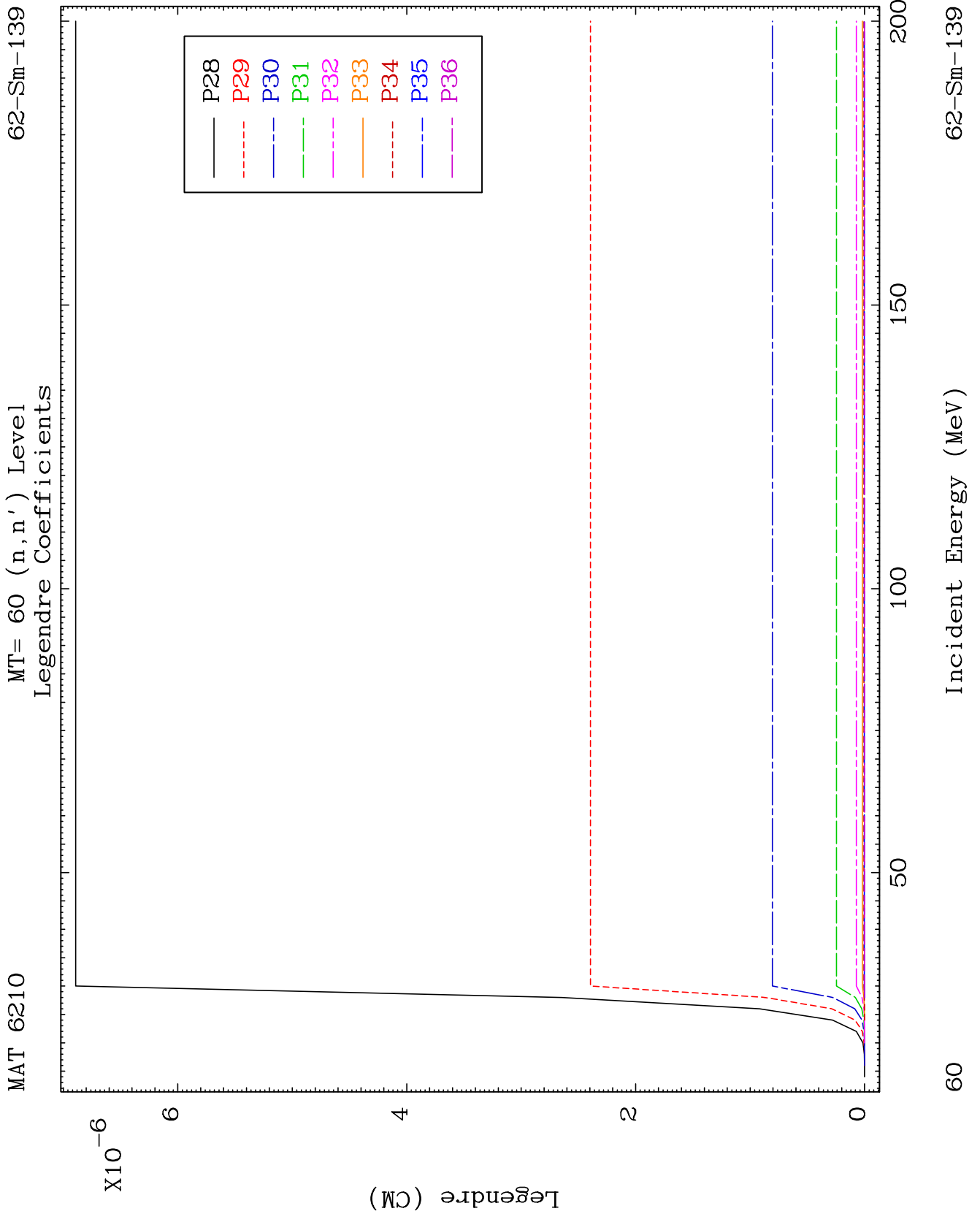
62-Sm-139



59

Incident Energy (MeV)

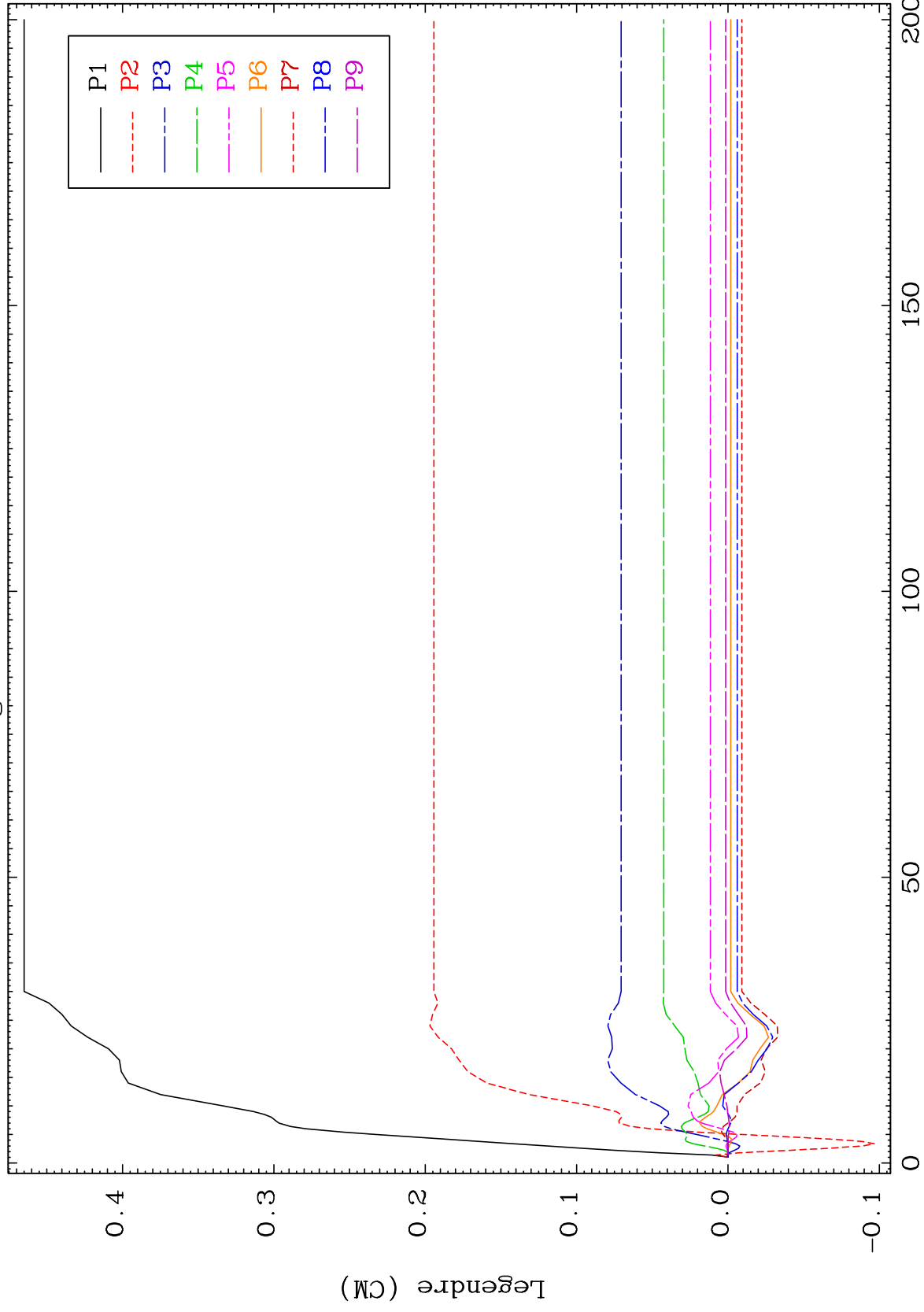
62-Sm-139



MAT 6210

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

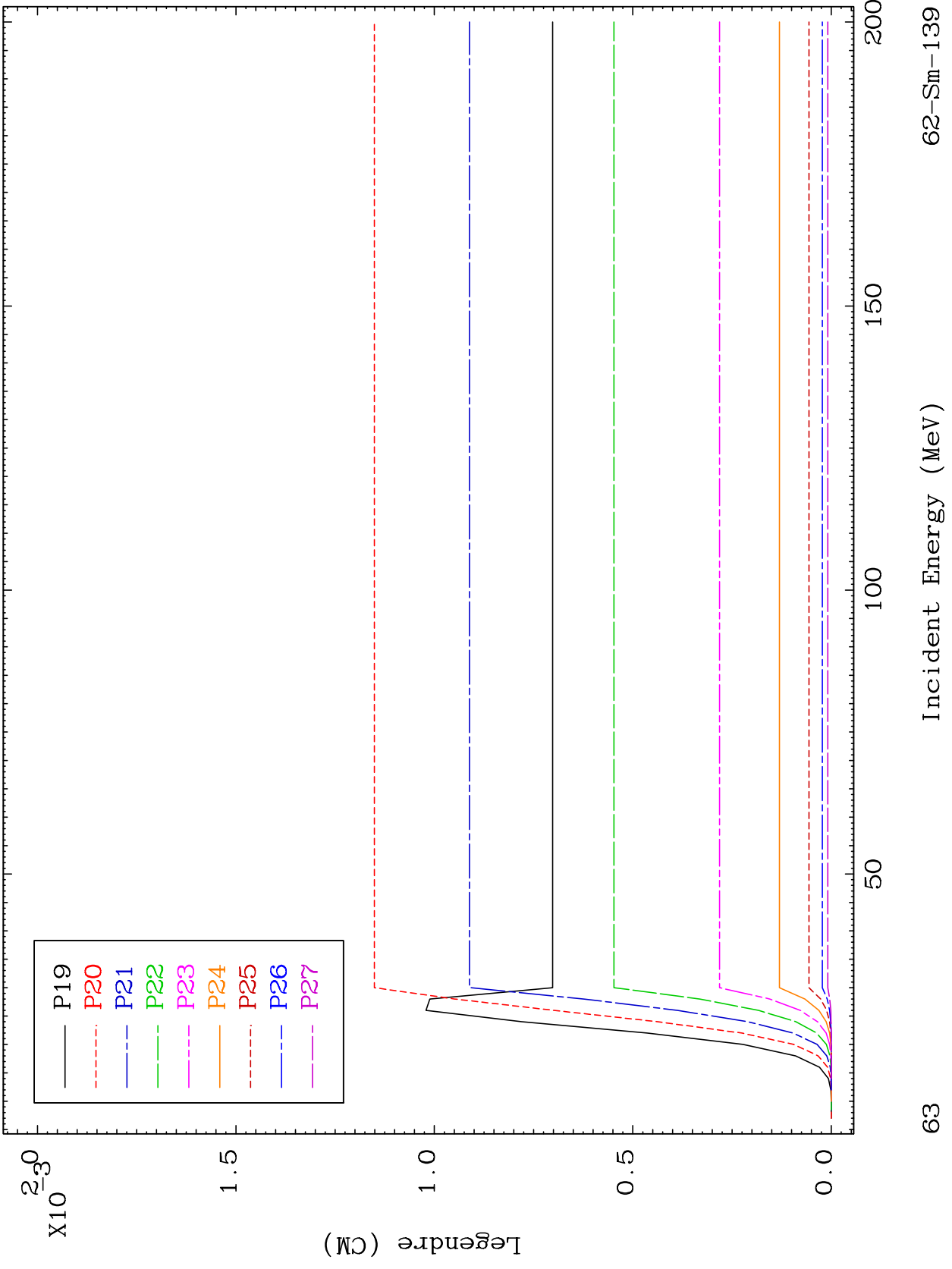
62-Sm-139



61

Incident Energy (MeV)

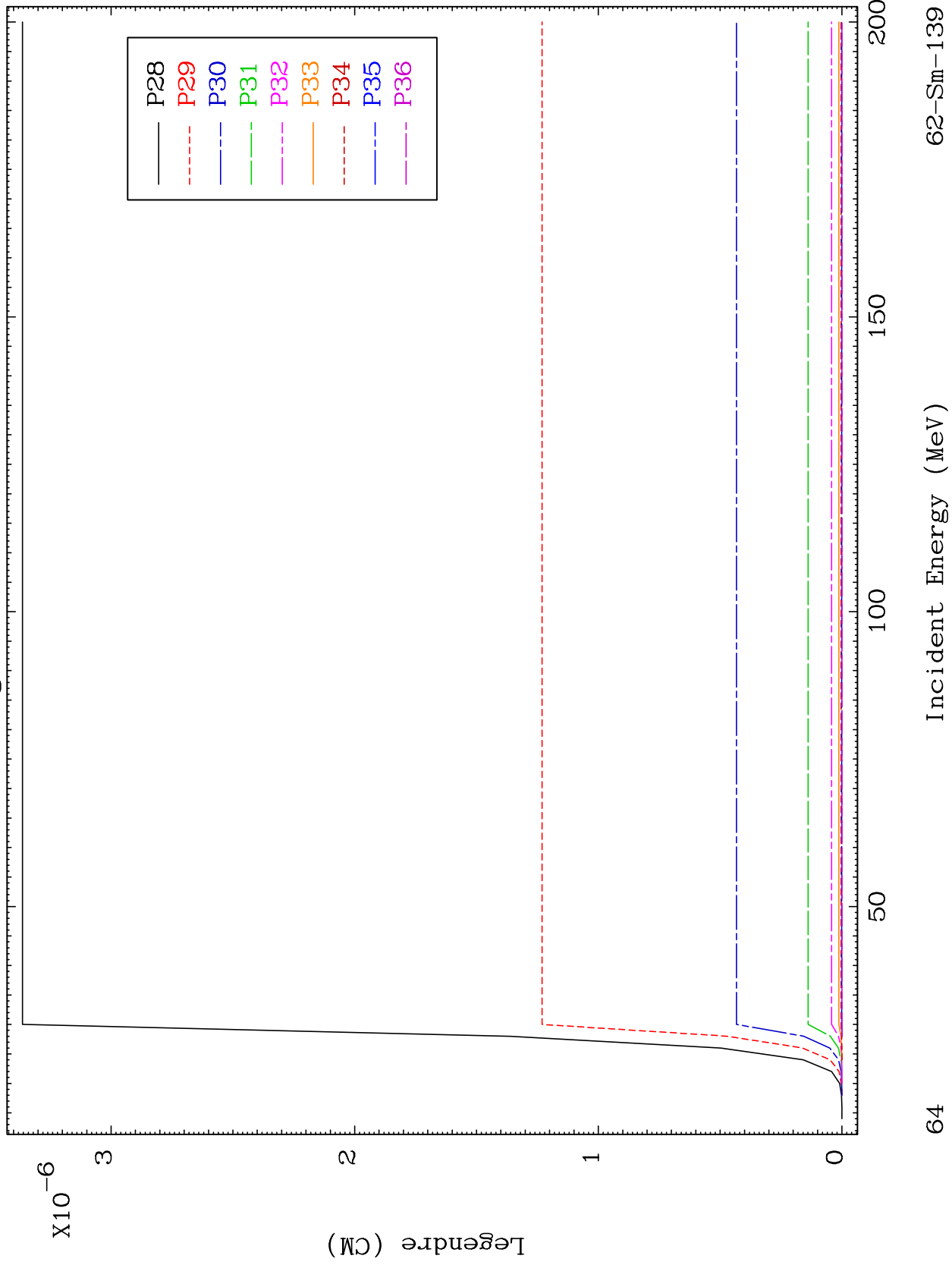
62-Sm-139



MAT 6210

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

62-Sm-139



64

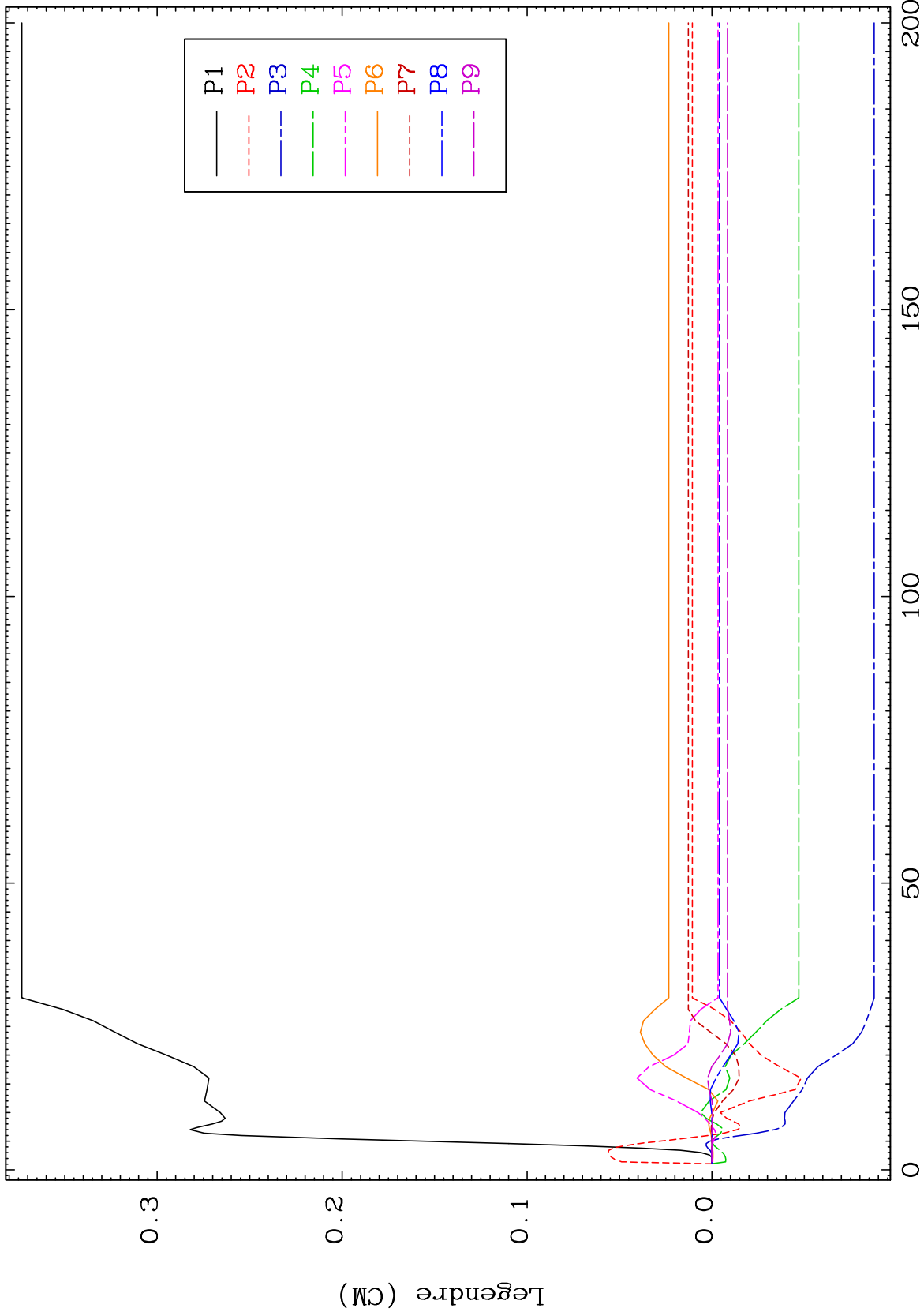
Incident Energy (MeV)

62-Sm-139

MAT 6210

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

62-Sm-139



65

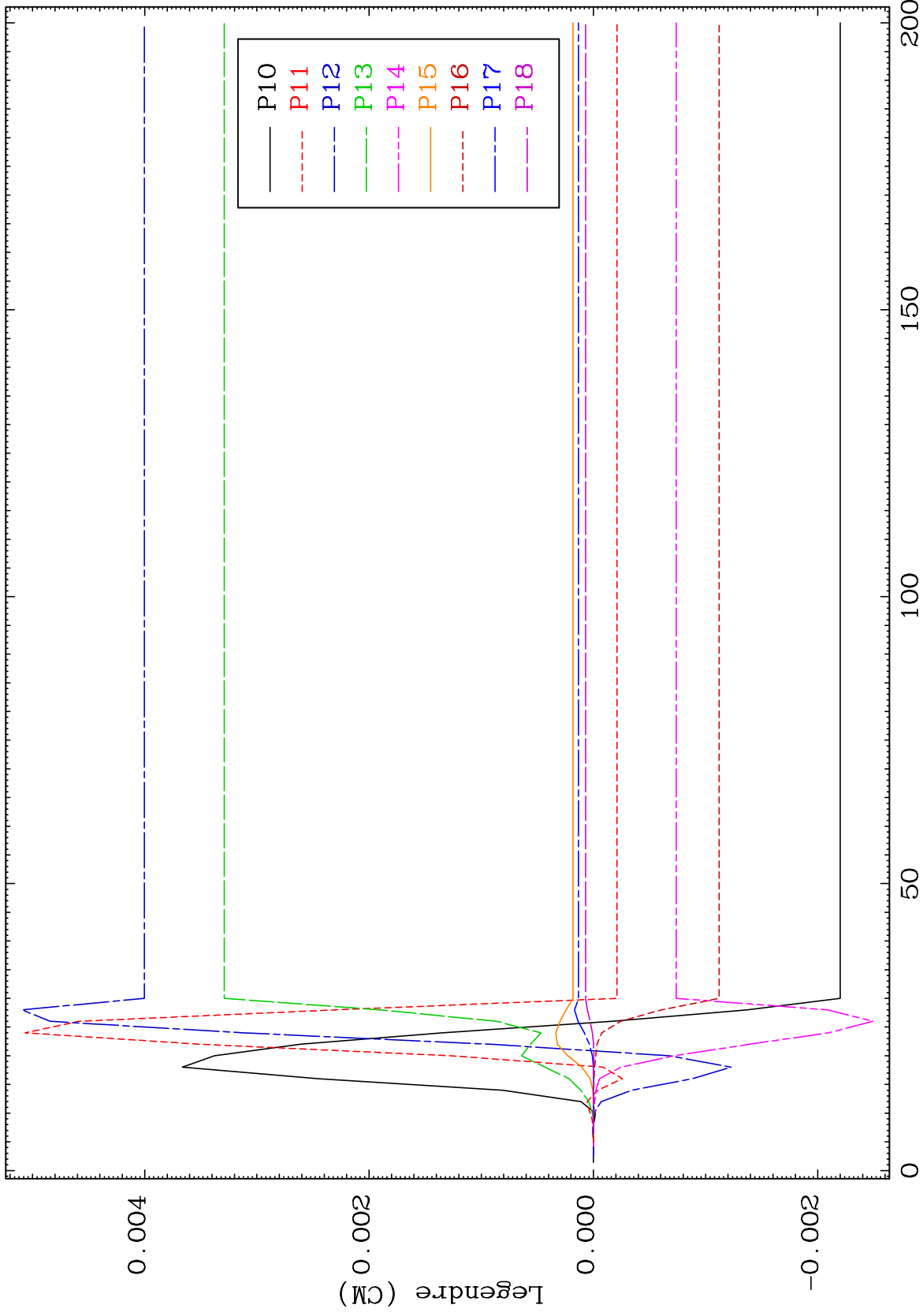
Incident Energy (MeV)

62-Sm-139

MAT 6210

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

62-Sm-139



66

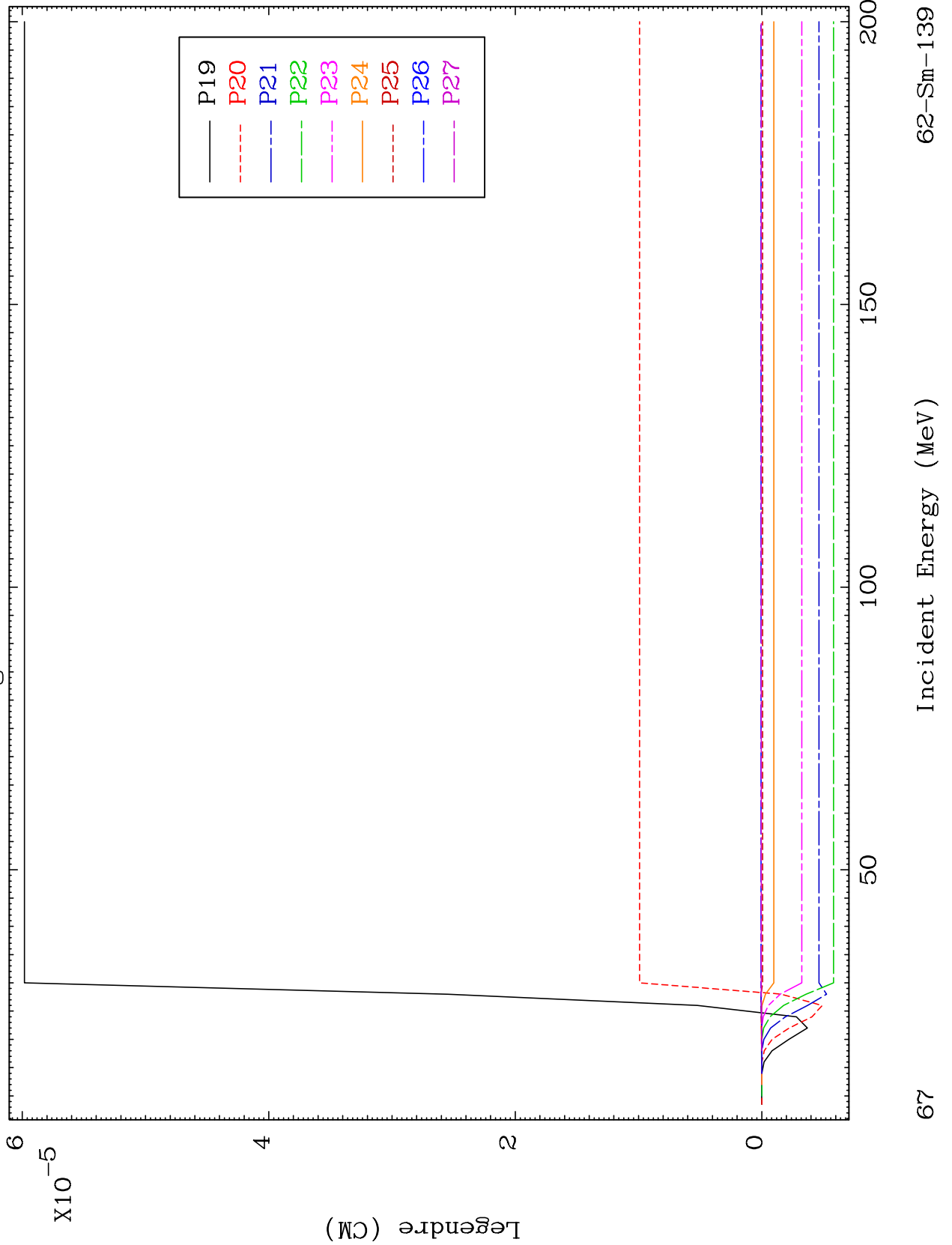
Incident Energy (MeV)

62-Sm-139

MAT 6210

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

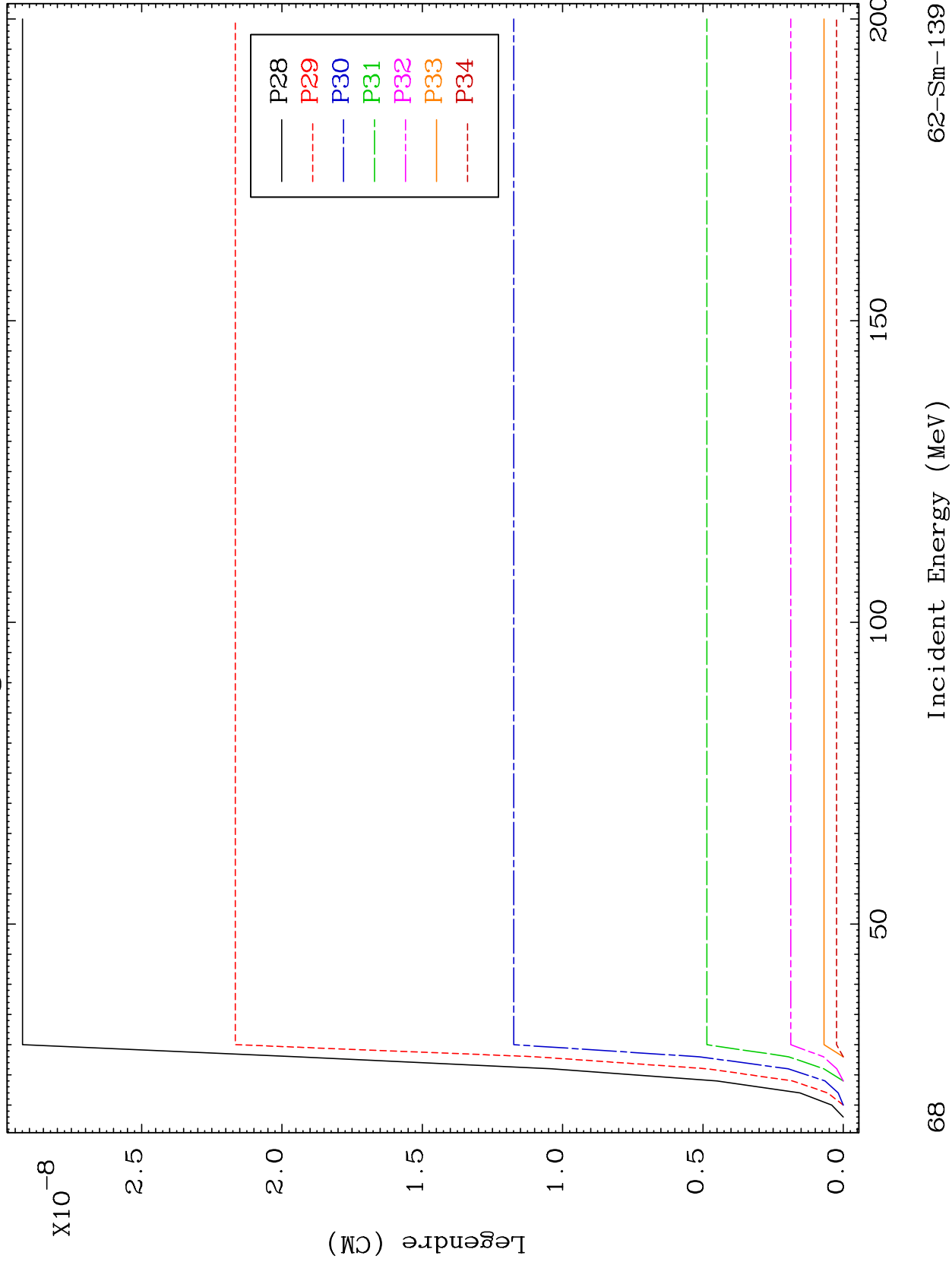
62-Sm-139



MAT 6210

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

62-Sm-139



68

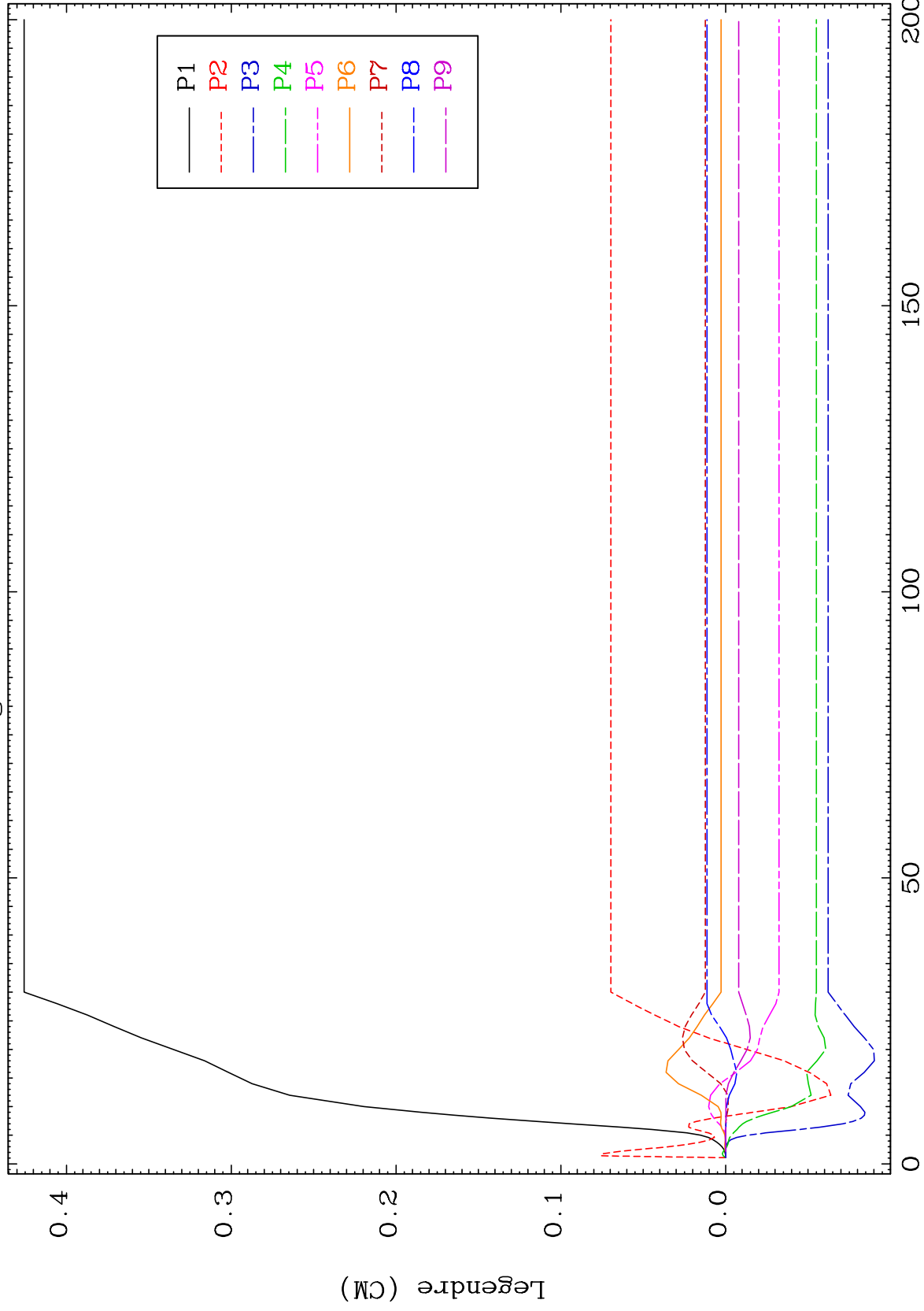
Incident Energy (MeV)

62-Sm-139

MAT 6210

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

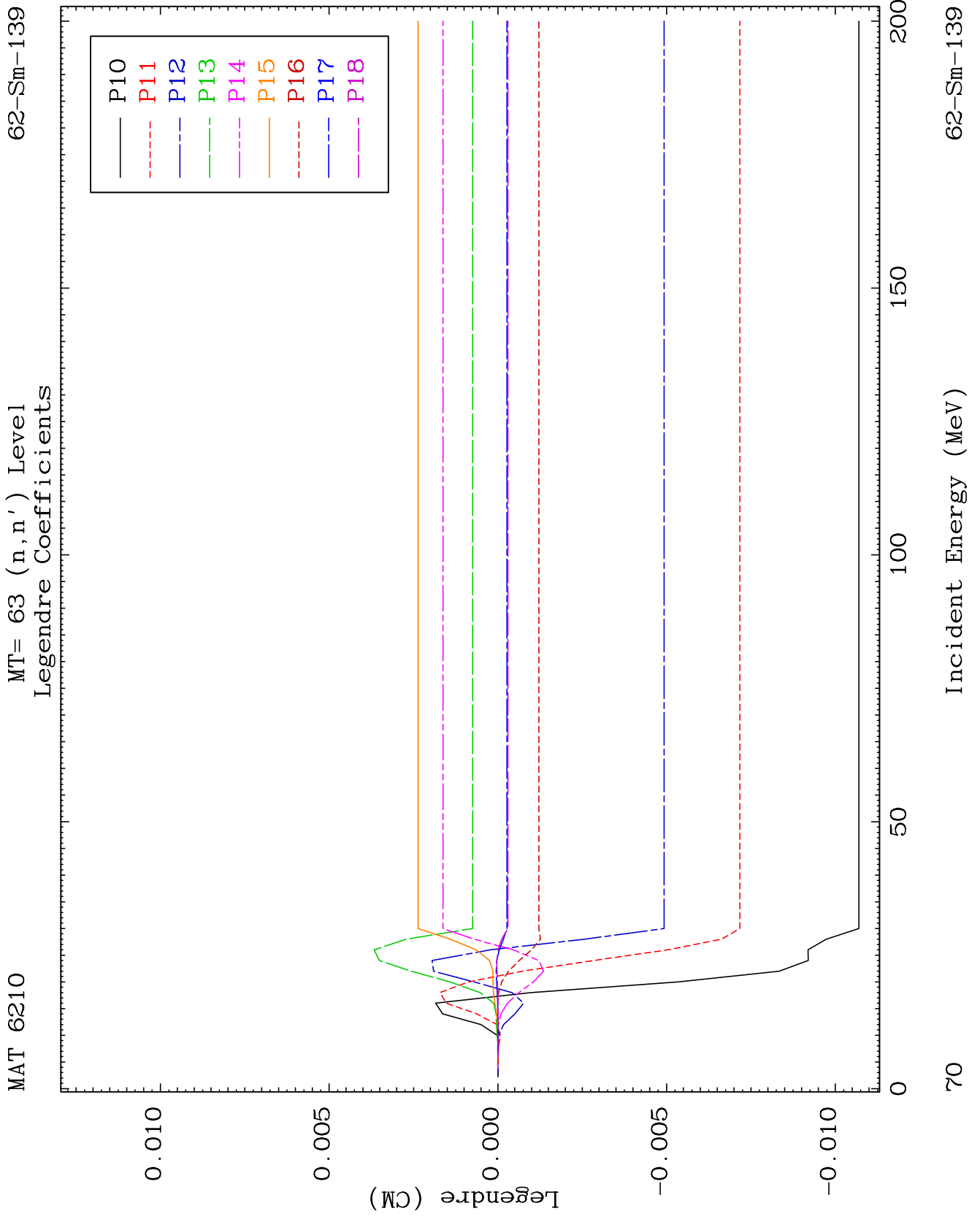
62-Sm-139



69

Incident Energy (MeV)

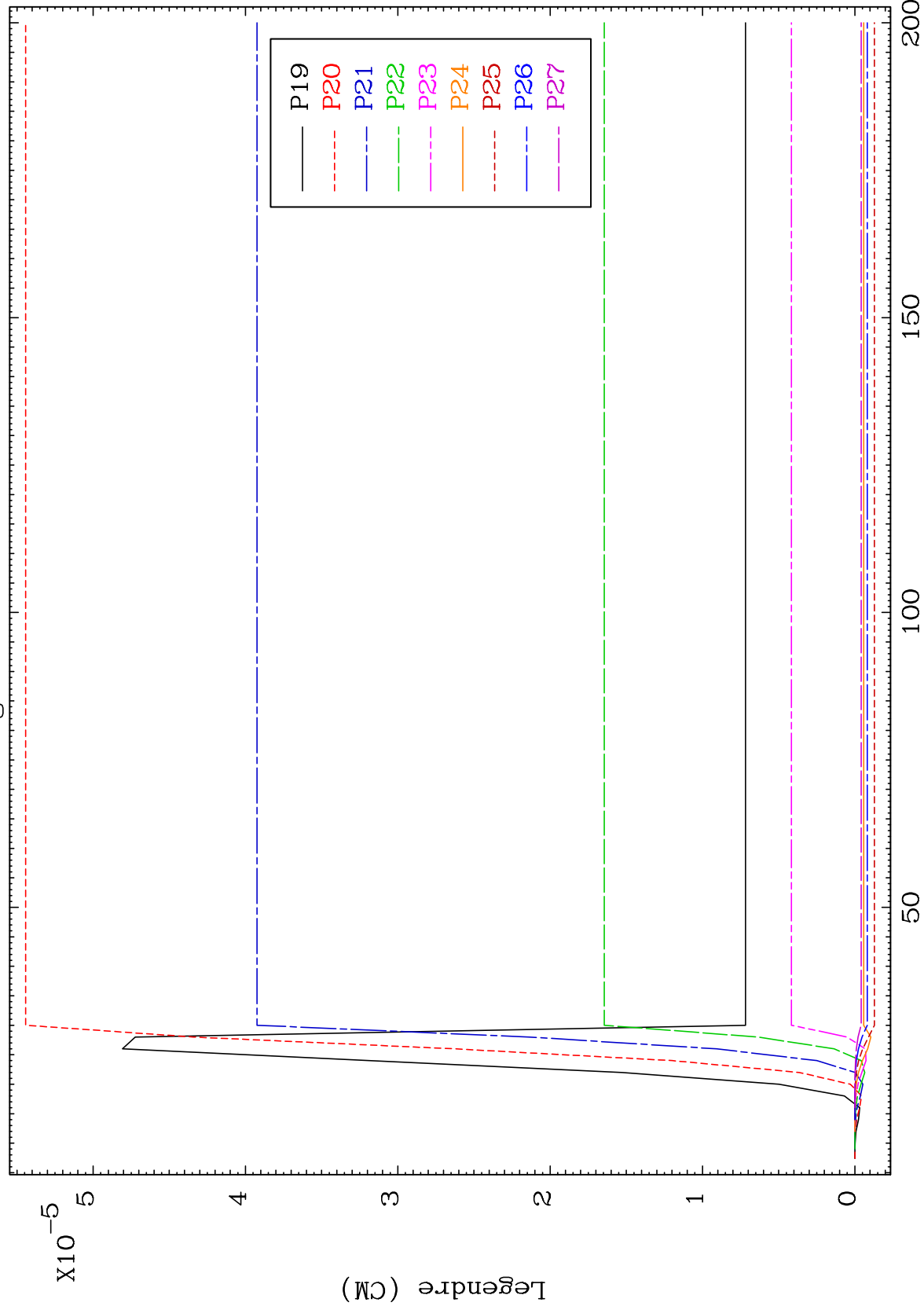
62-Sm-139



MAT 6210

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

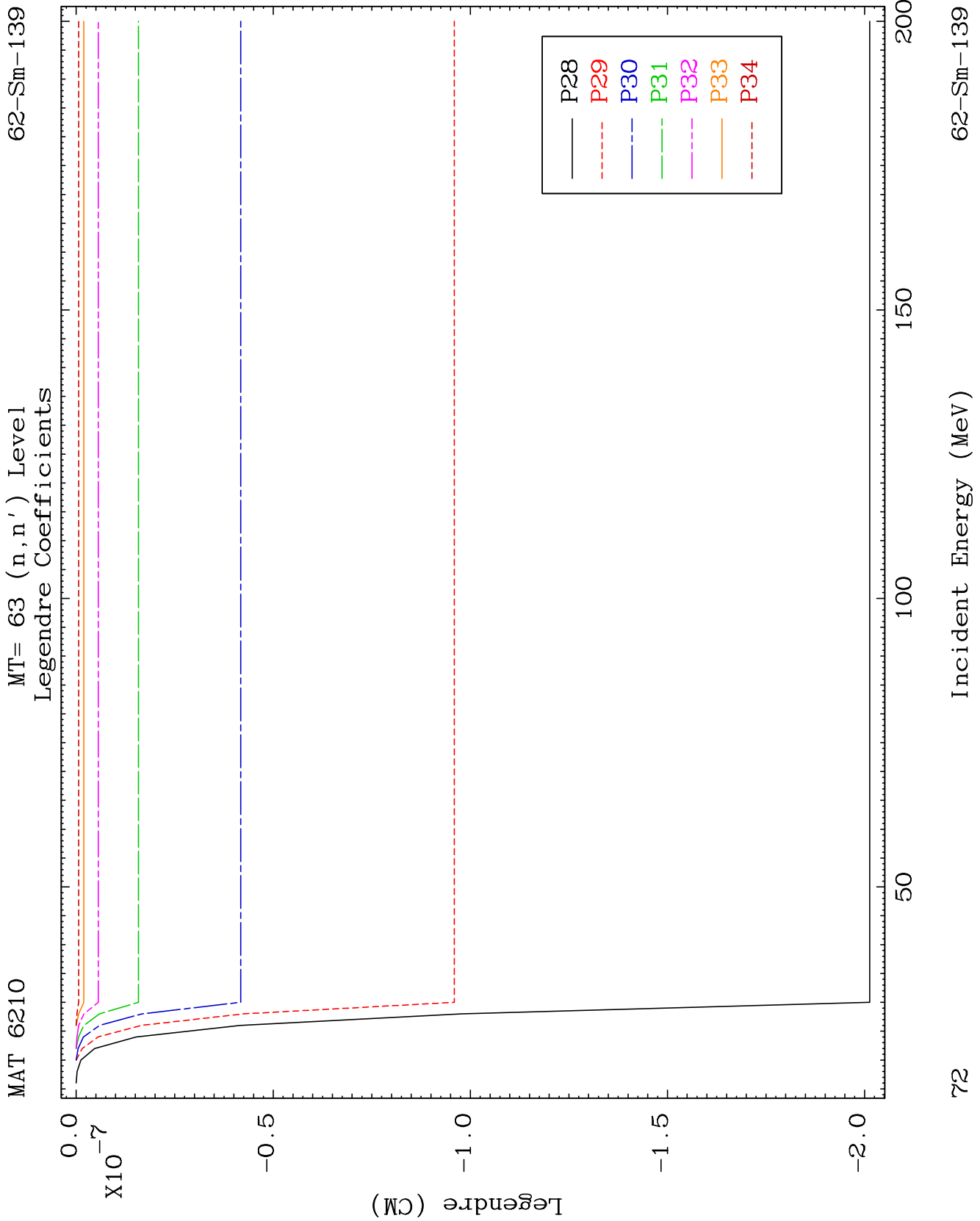
62-Sm-139



62-Sm-139

Incident Energy (MeV)

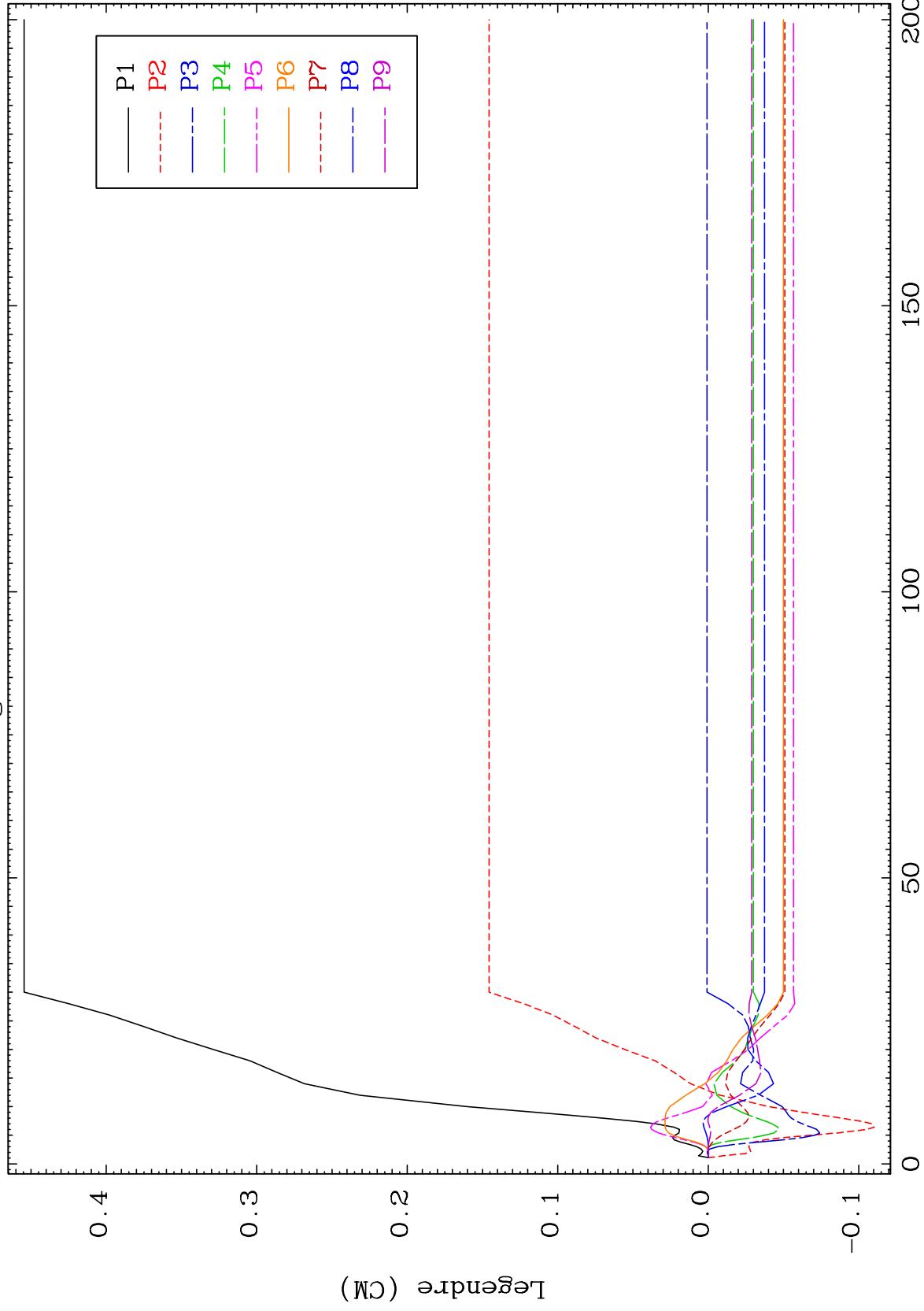
71



MAT 6210

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

62-Sm-139



62-Sm-139

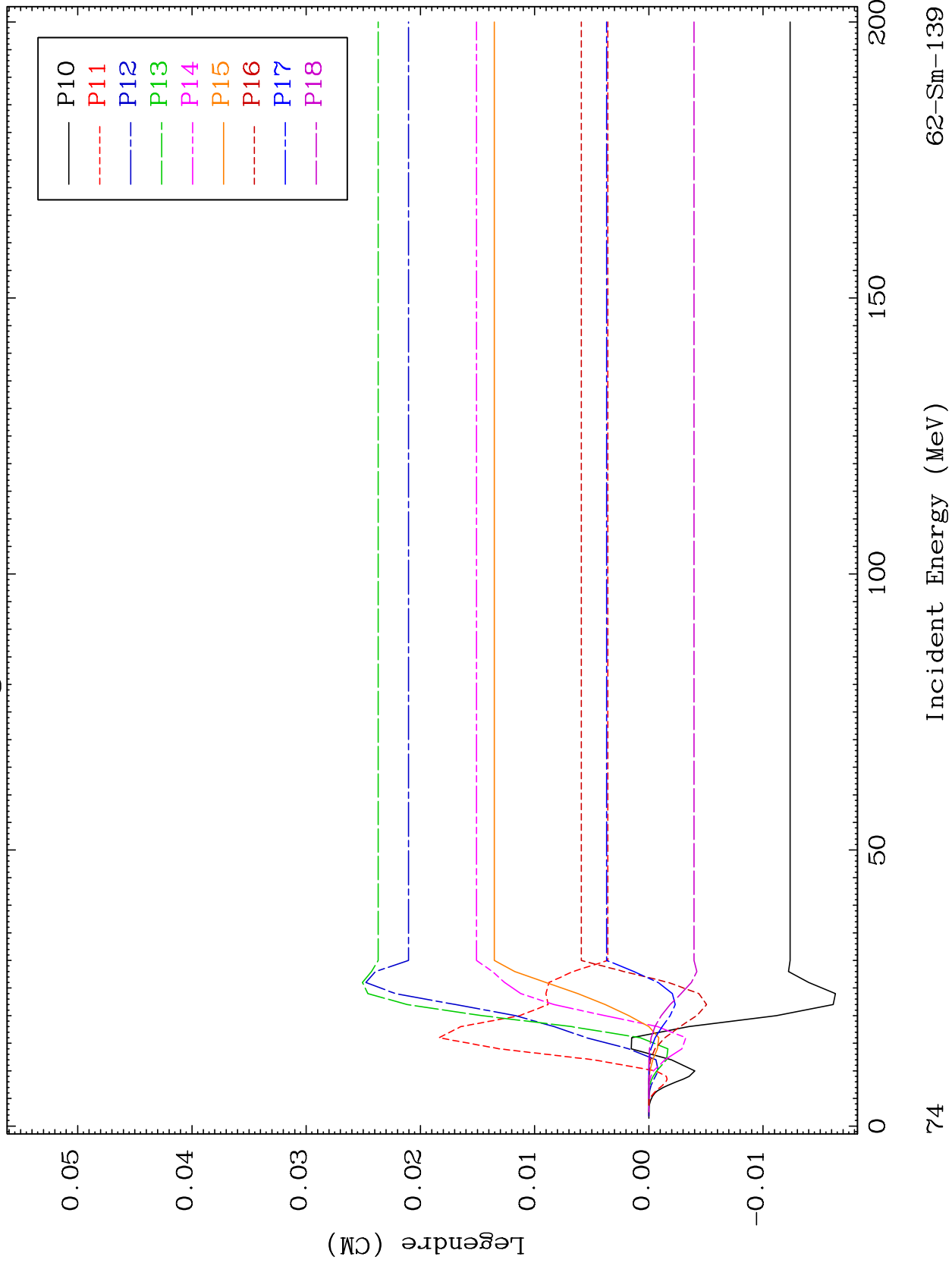
Incident Energy (MeV)

73

MAT 6210

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

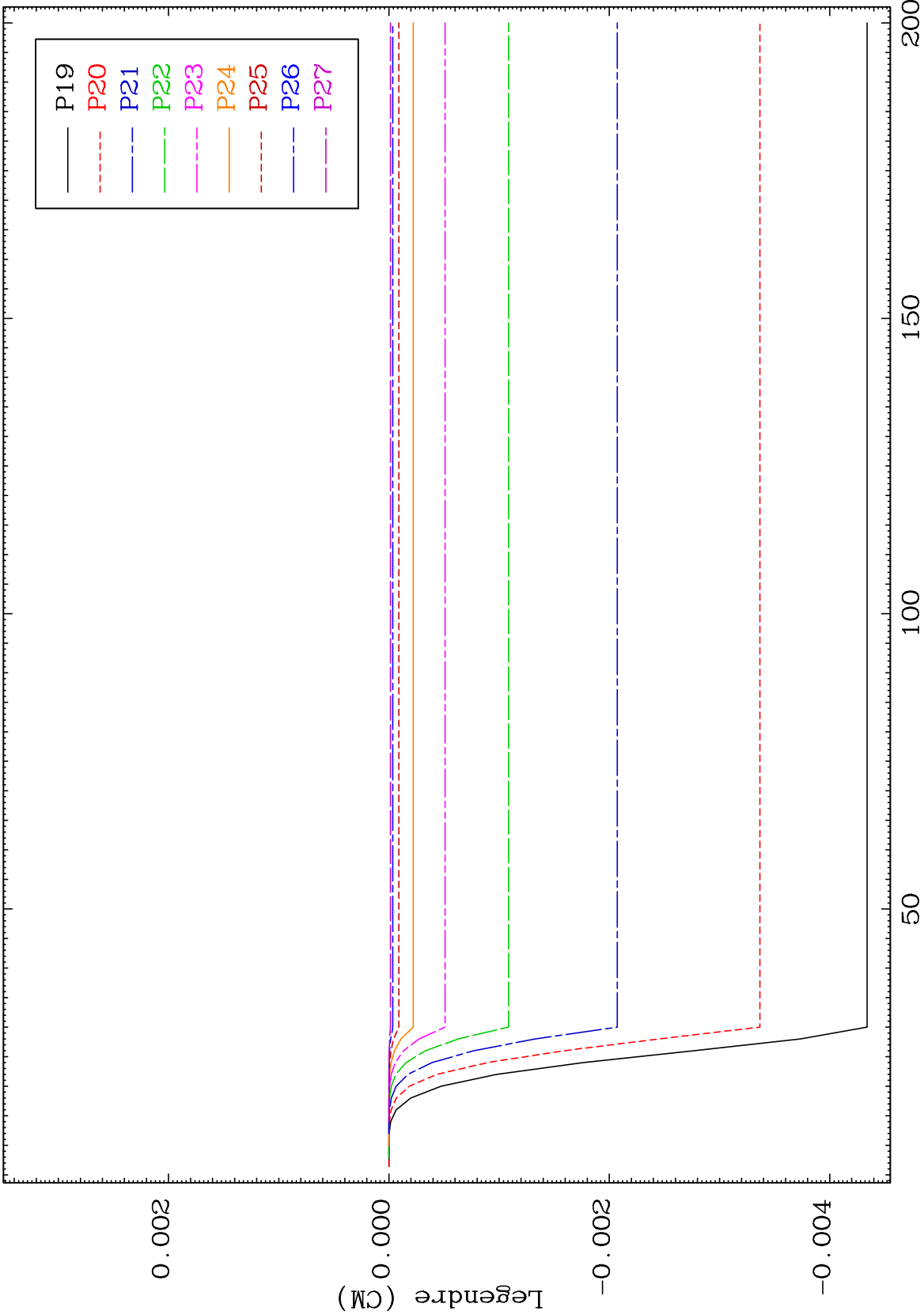
62-Sm-139



MAT 6210

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

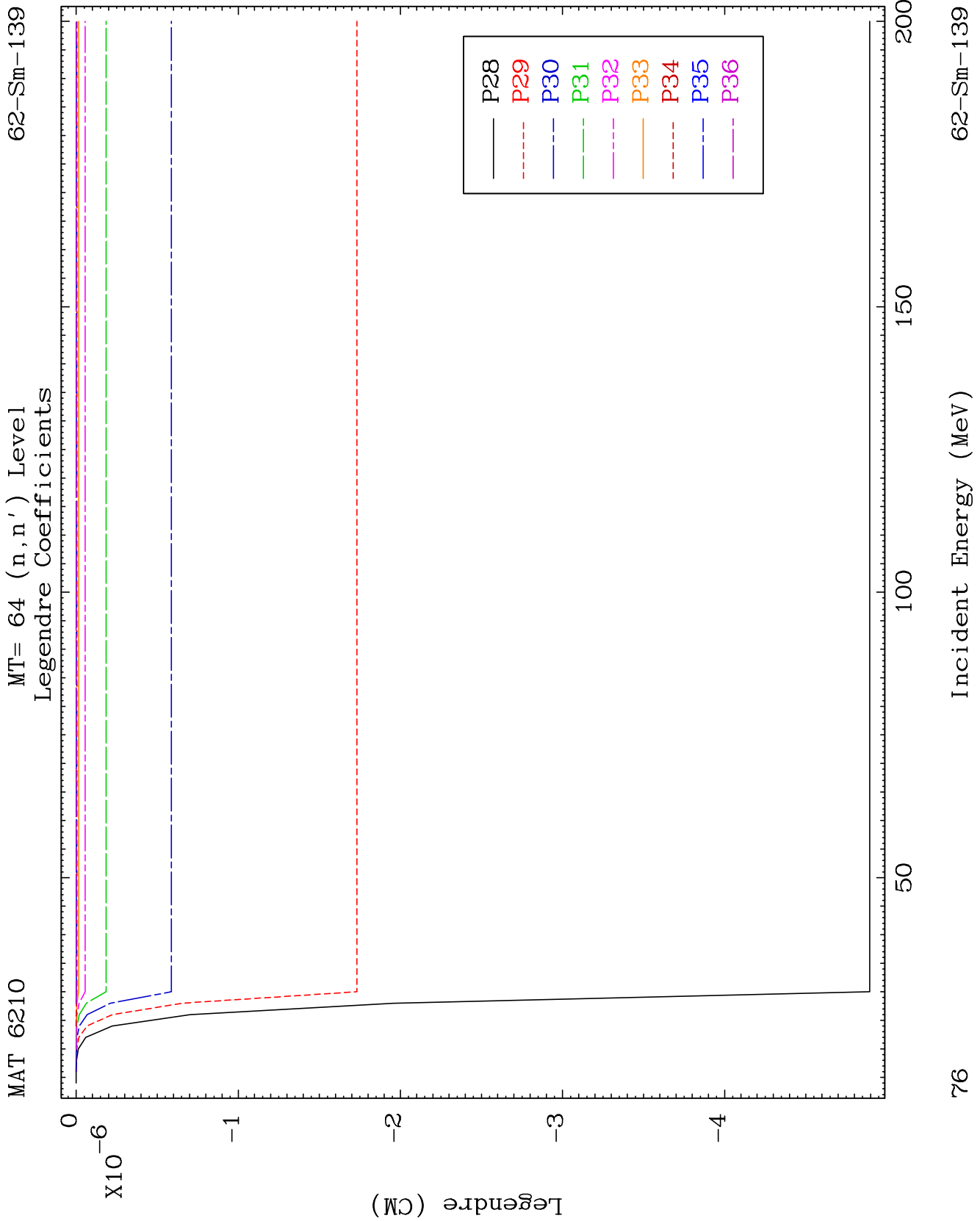
62-Sm-139

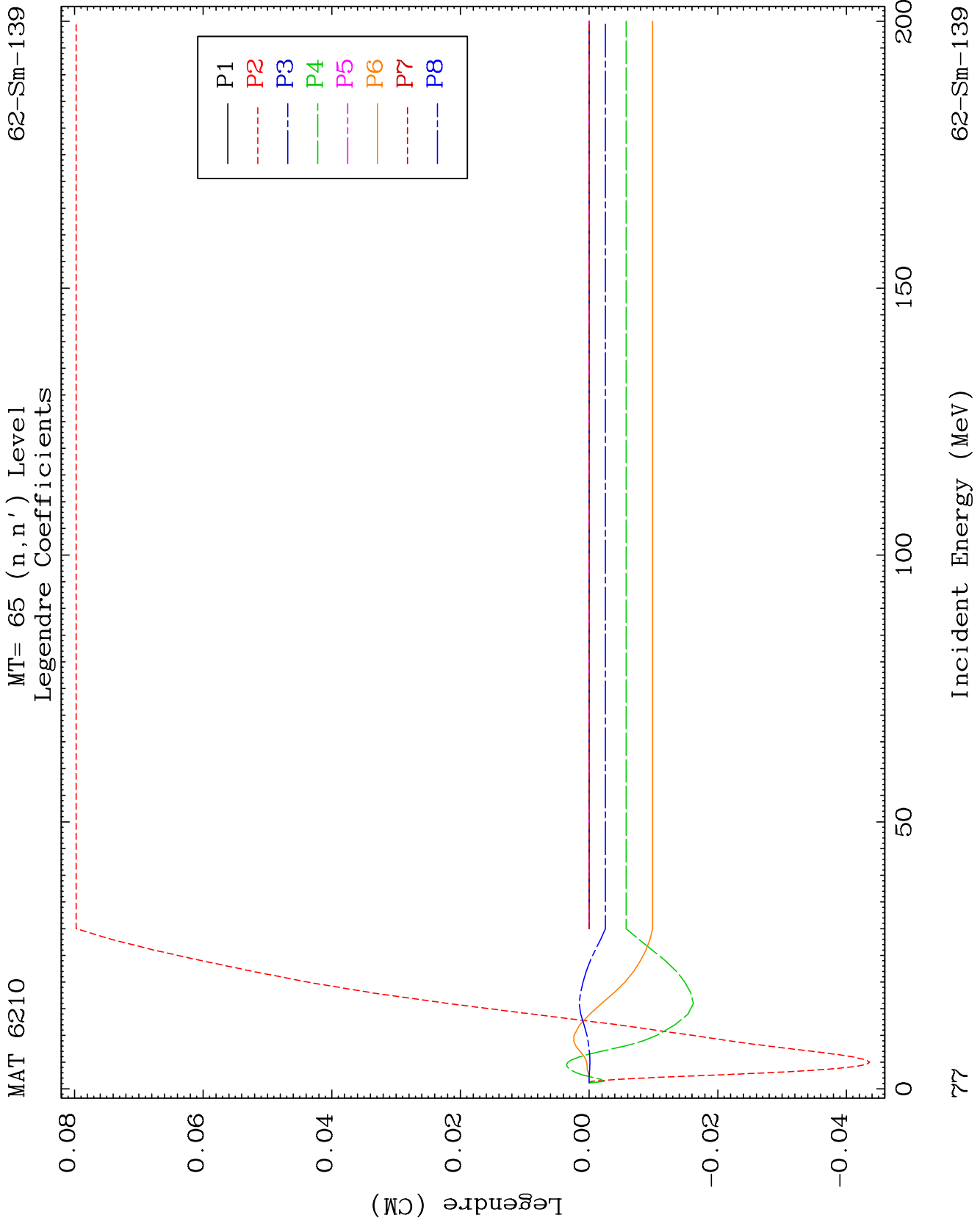


75

Incident Energy (MeV)

62-Sm-139

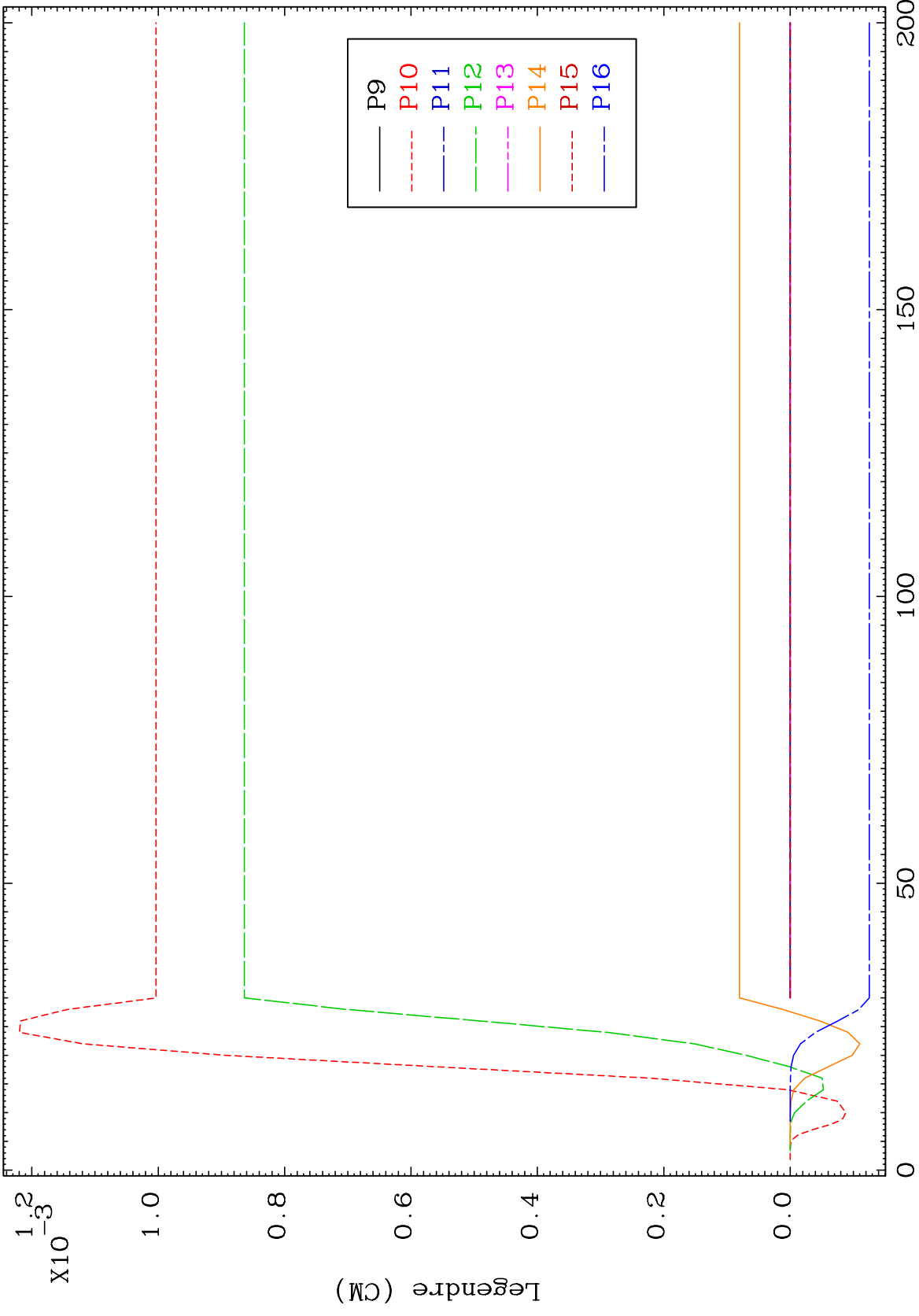




MAT 6210

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

62-Sm-139



78

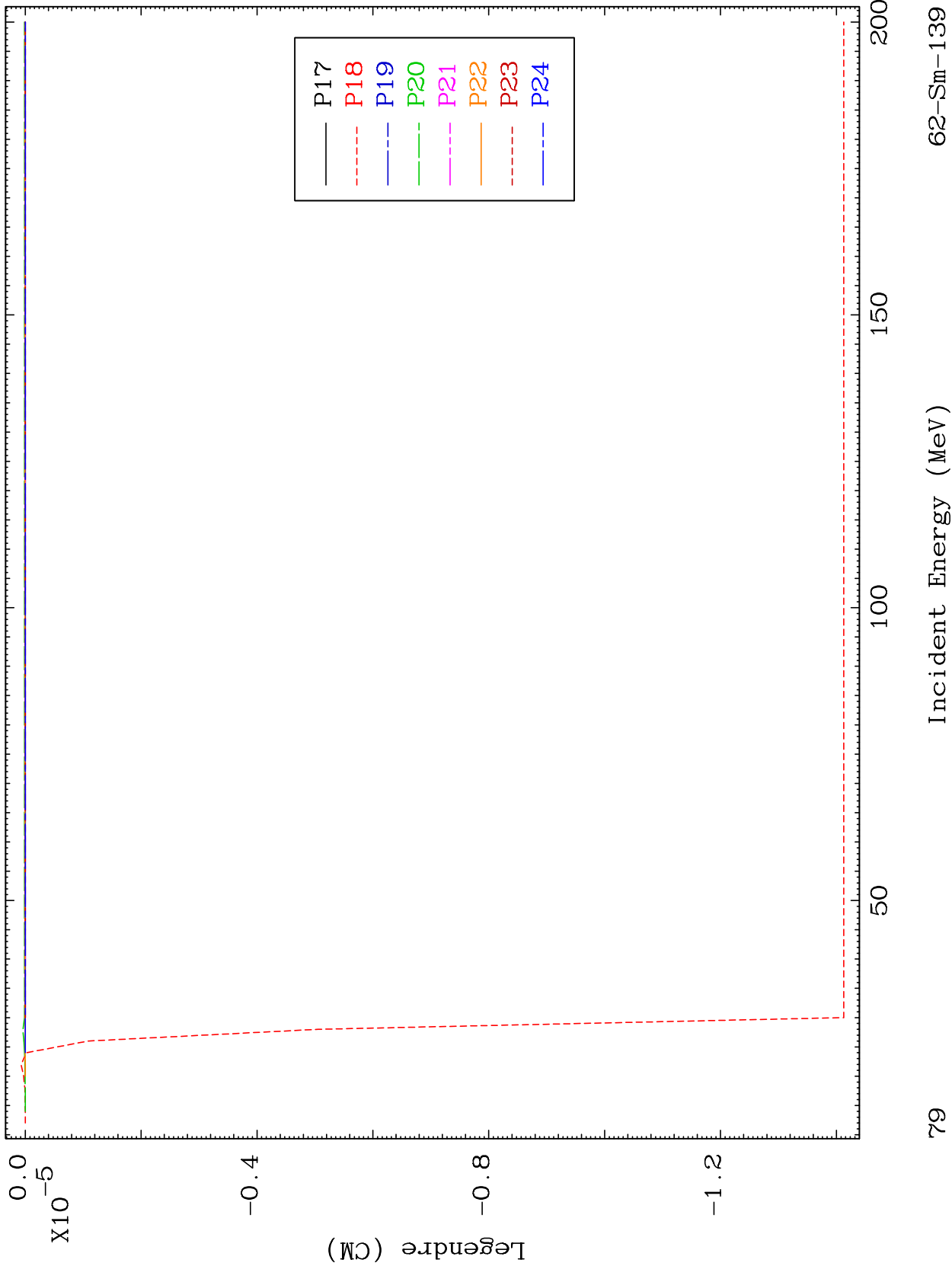
Incident Energy (MeV)

62-Sm-139

MAT 6210

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

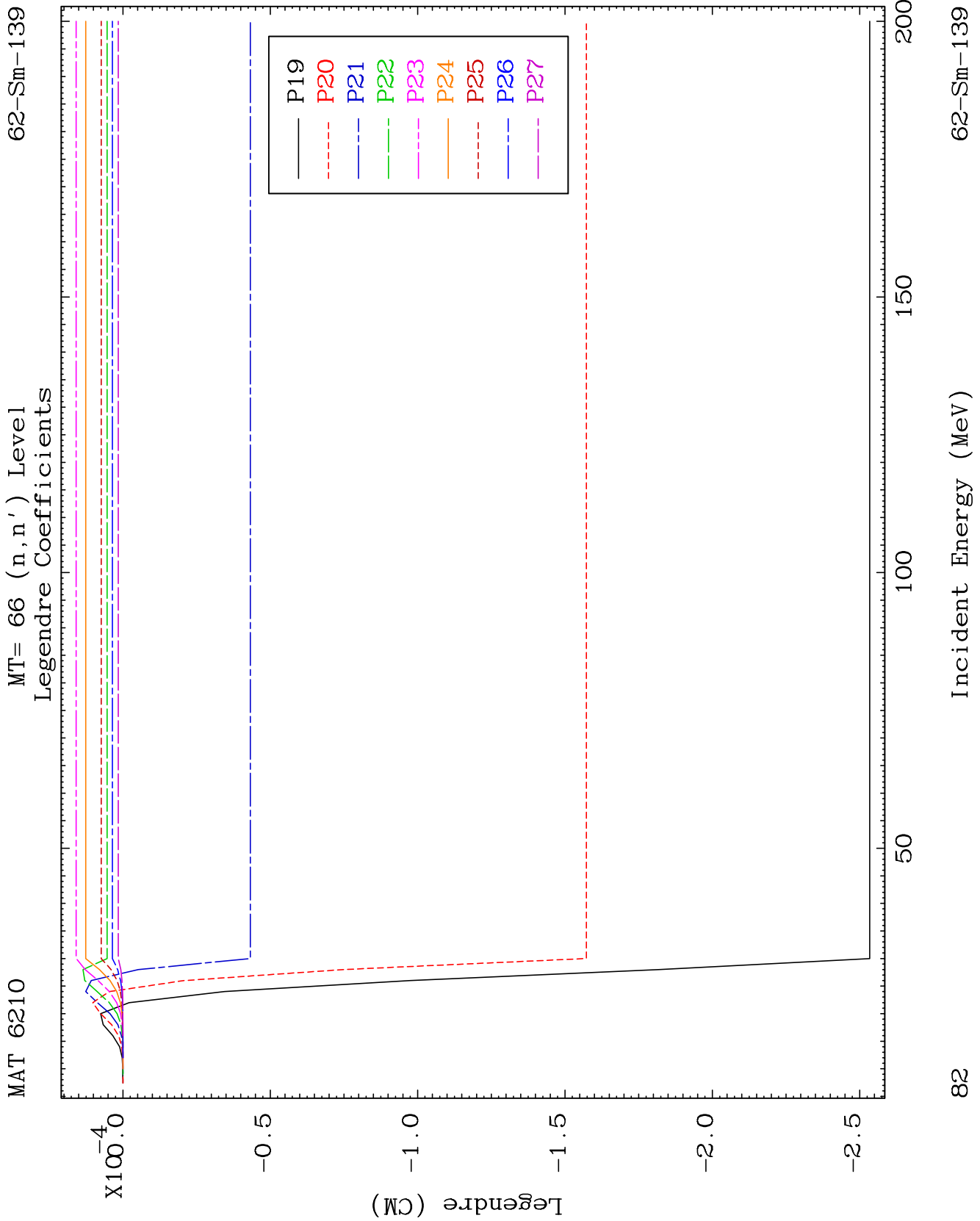
62-Sm-139



79

Incident Energy (MeV)

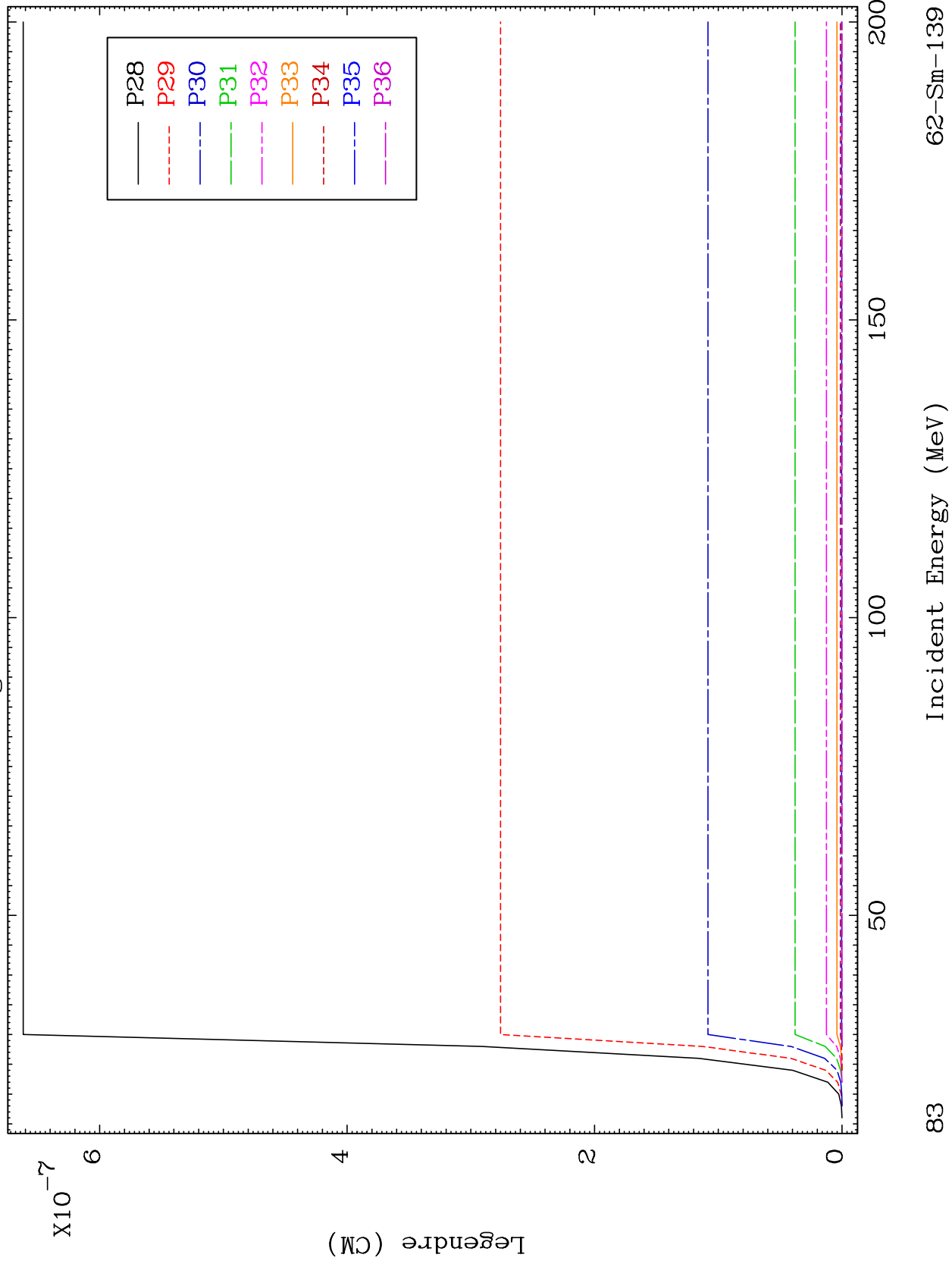
62-Sm-139



MAT 6210

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

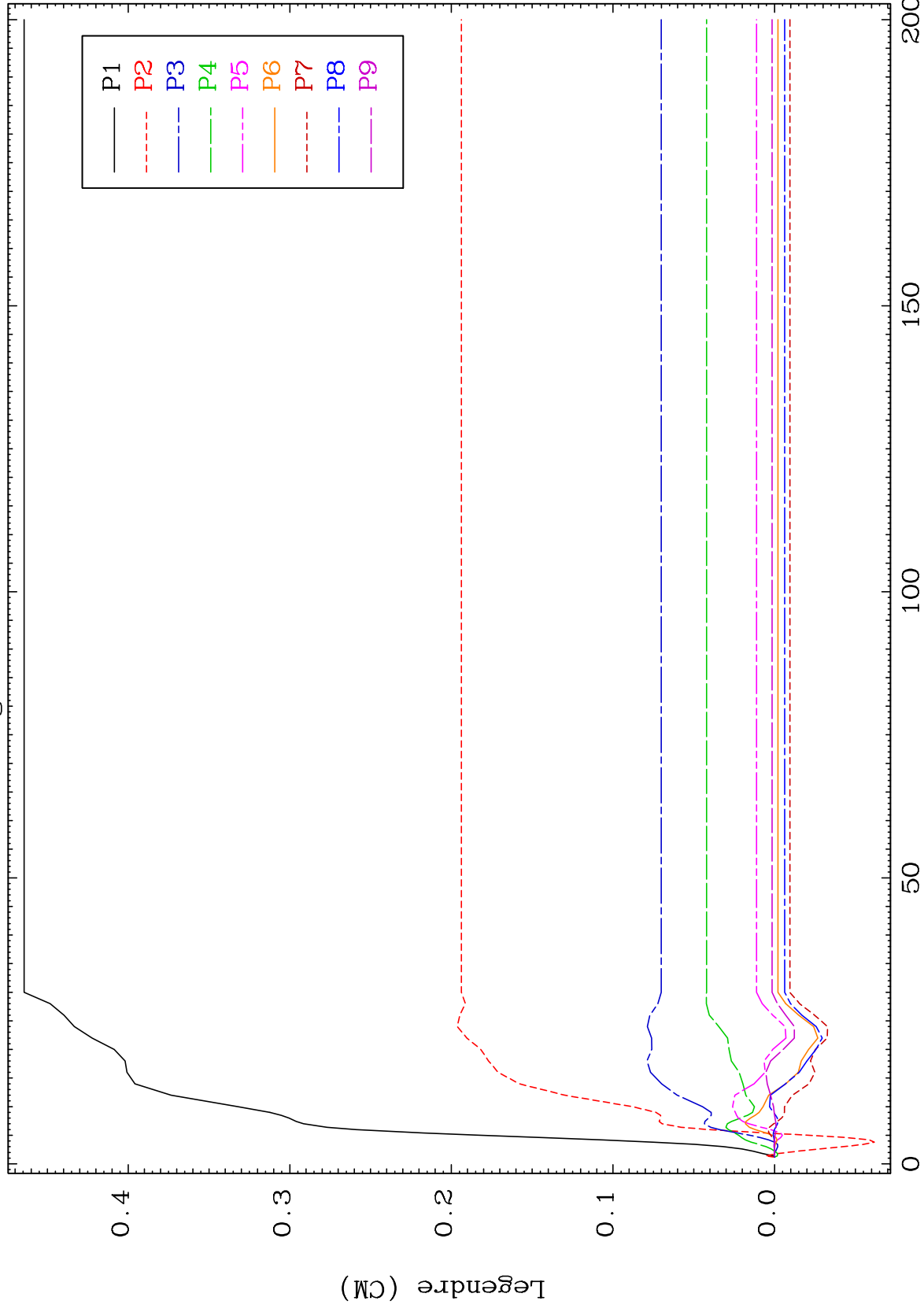
62-Sm-139



MAT 6210

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

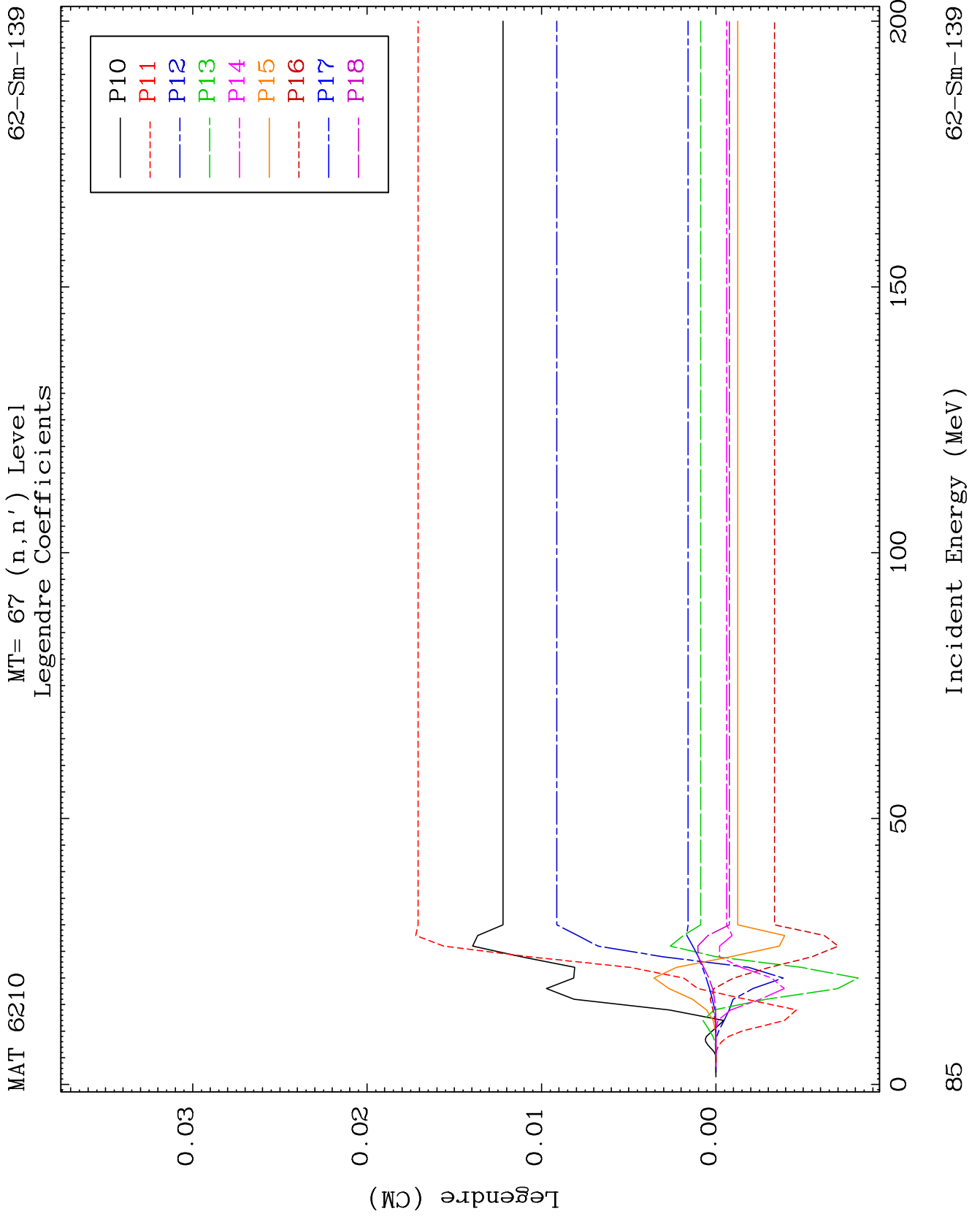
62-Sm-139

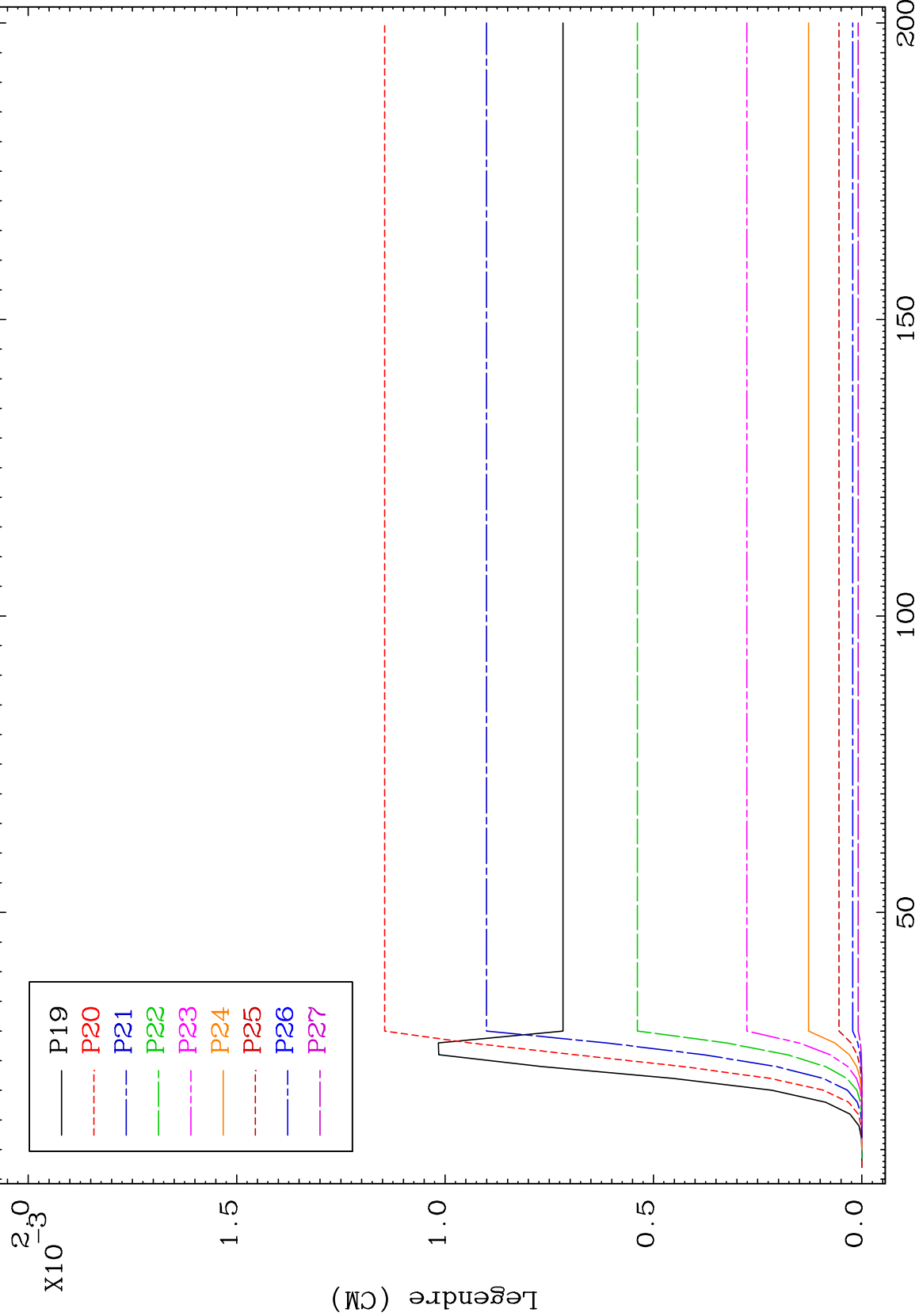


84

Incident Energy (MeV)

62-Sm-139

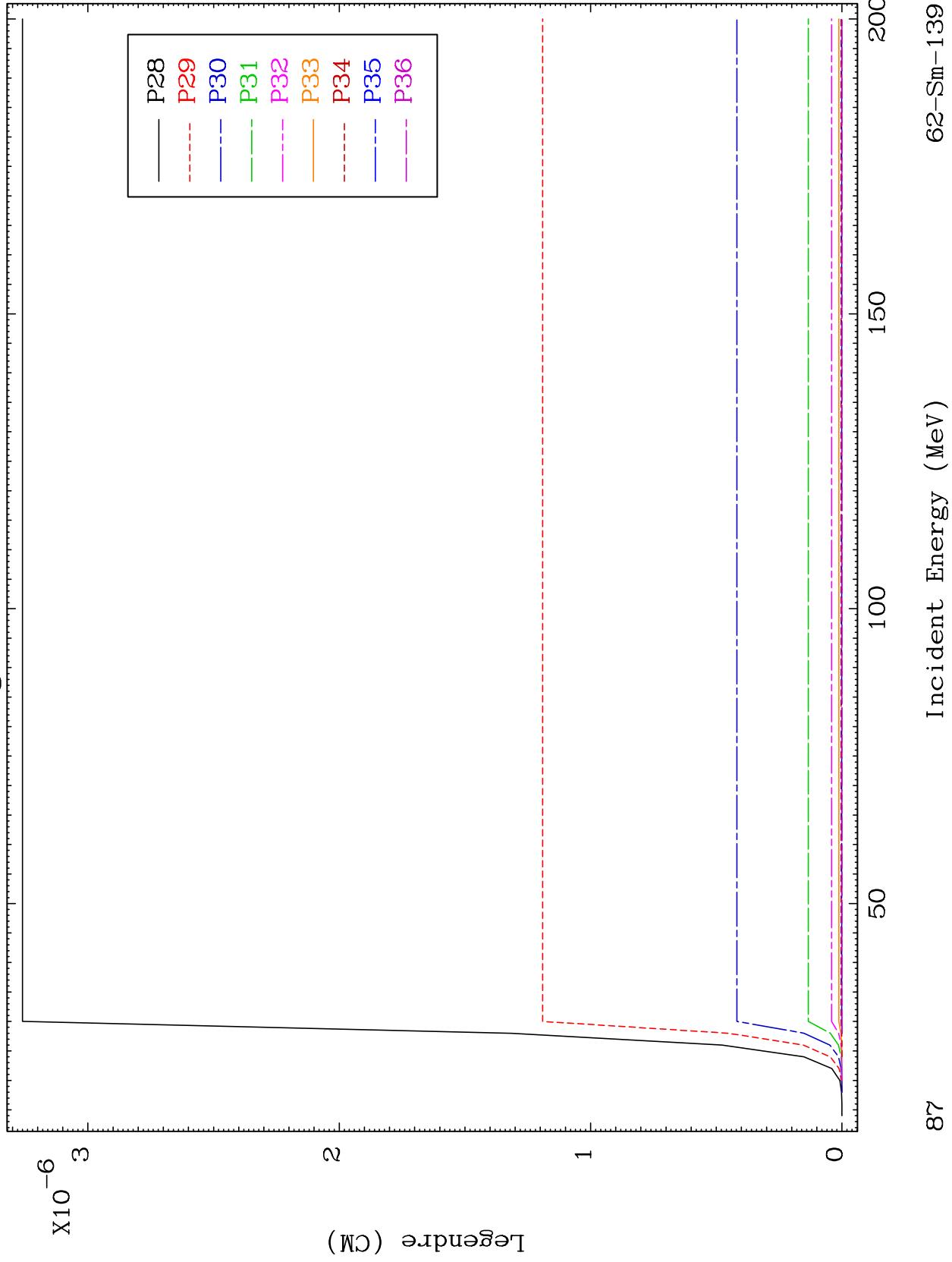


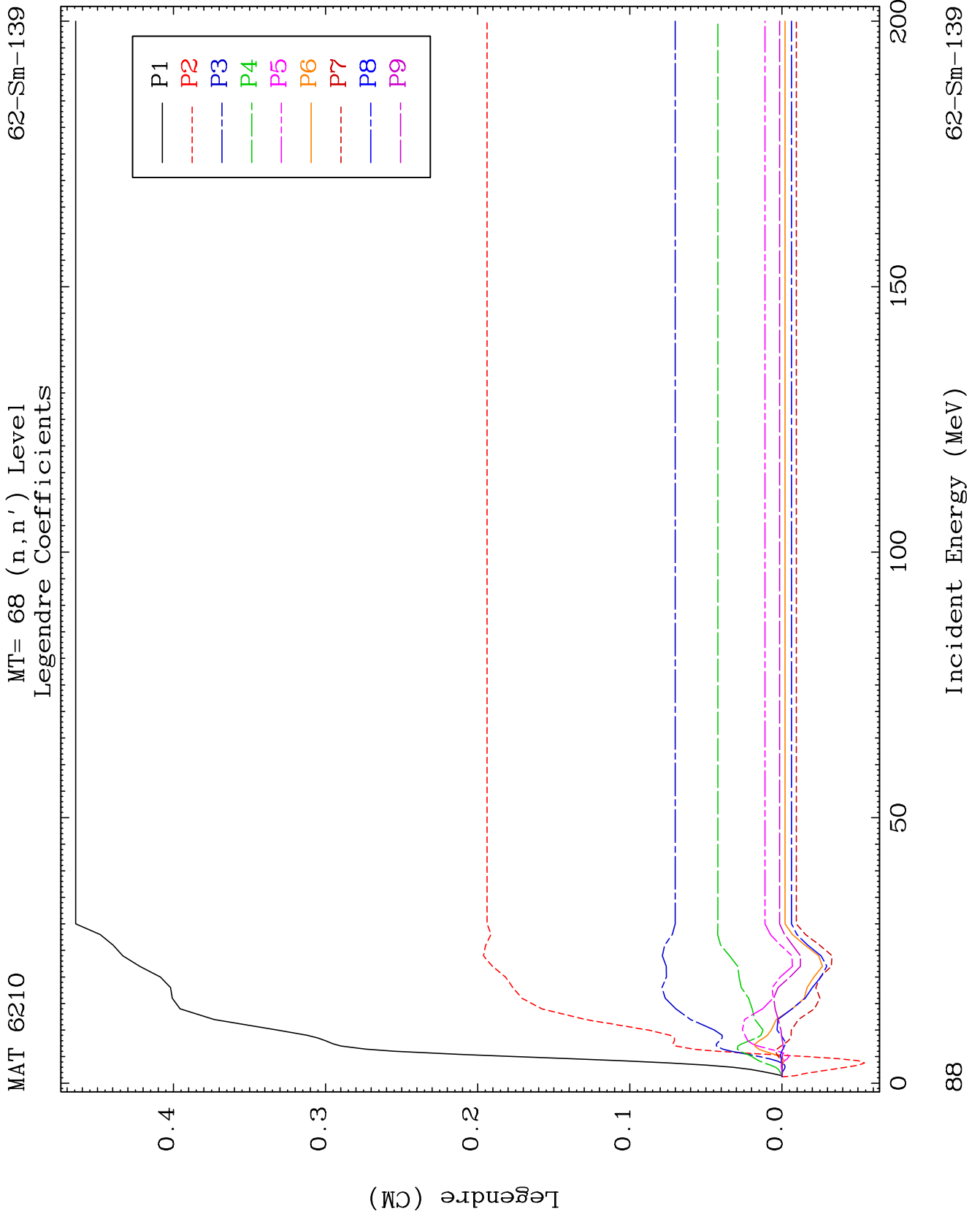


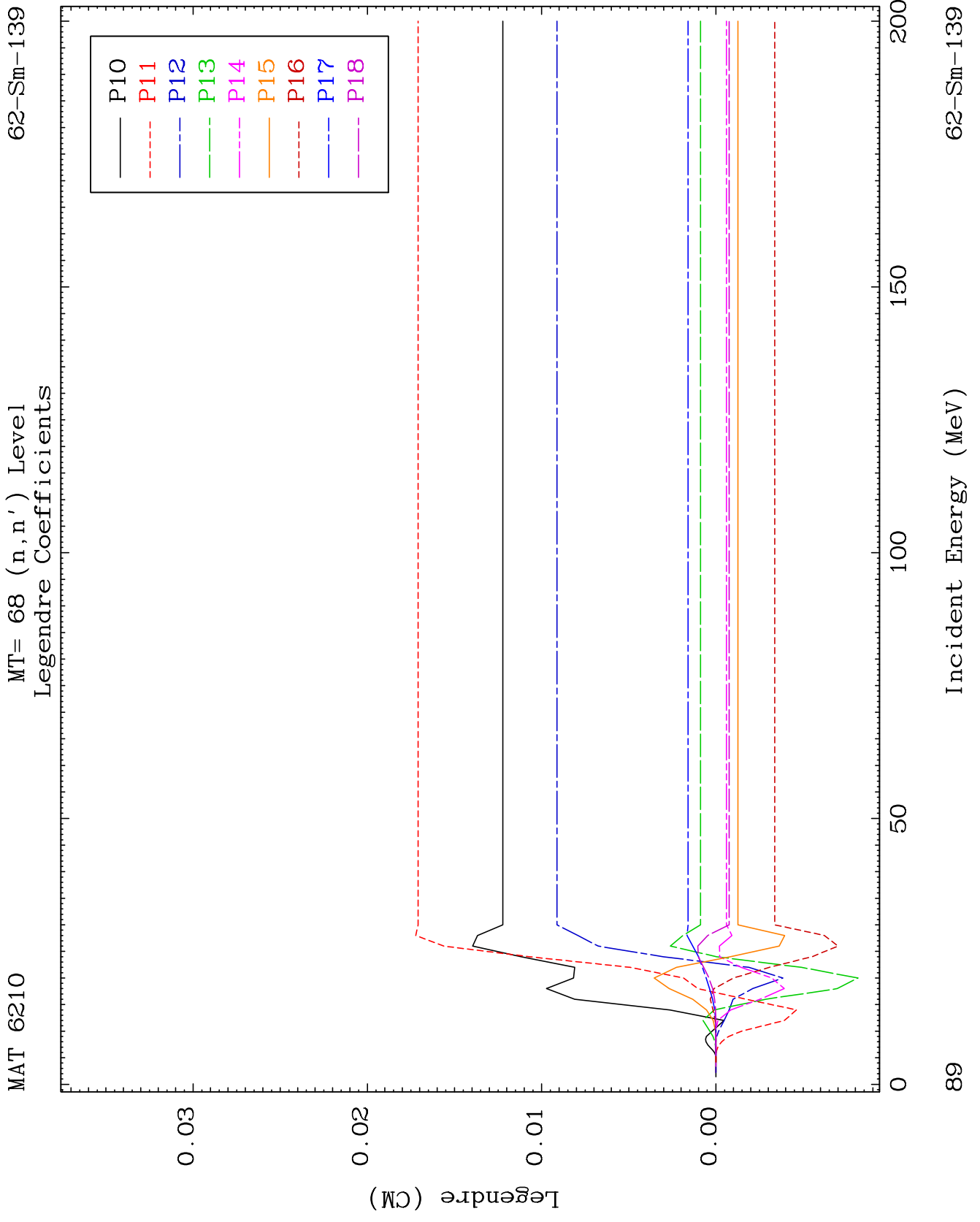
MAT 6210

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

62-Sm-139



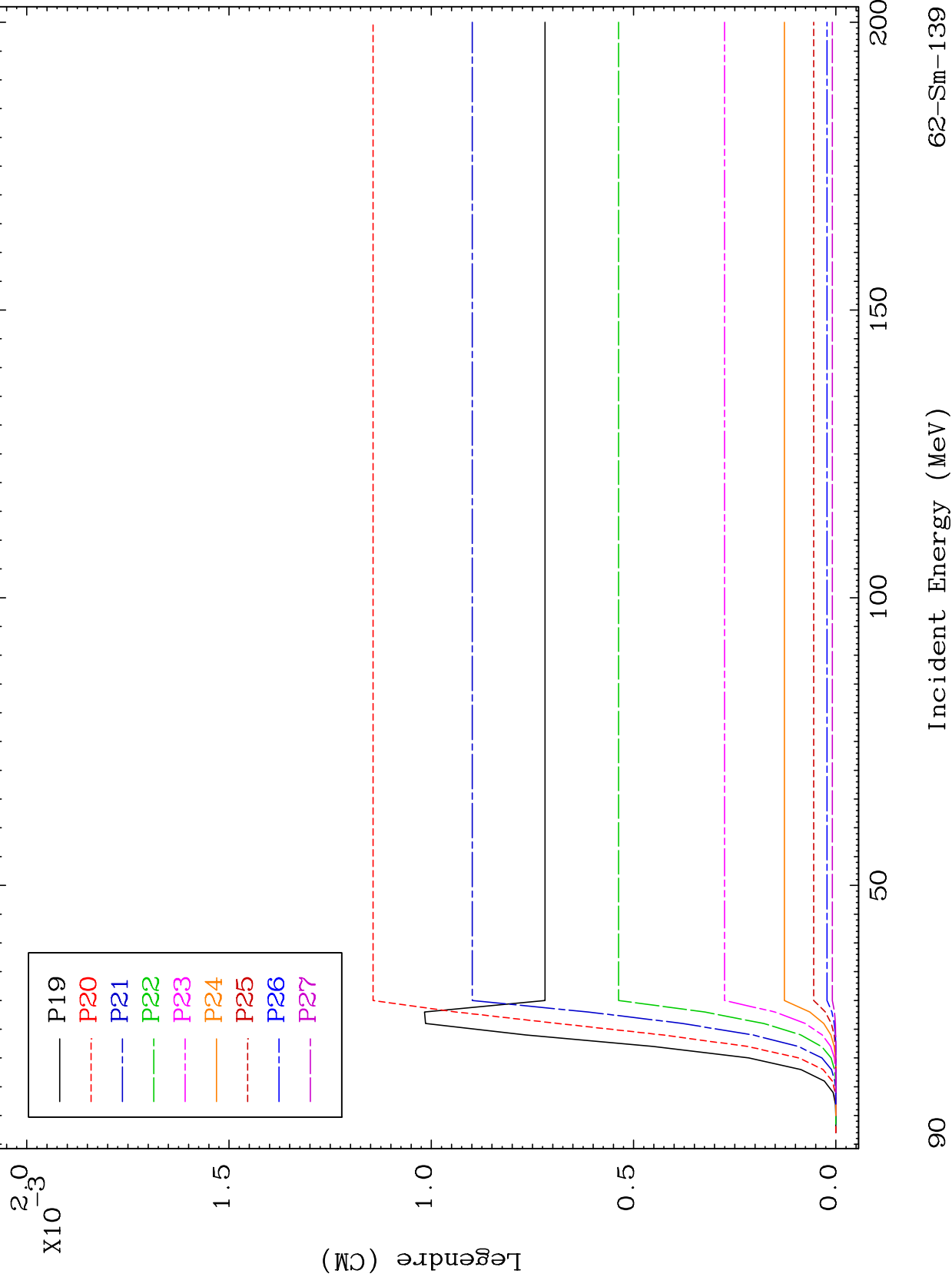




MAT 6210

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

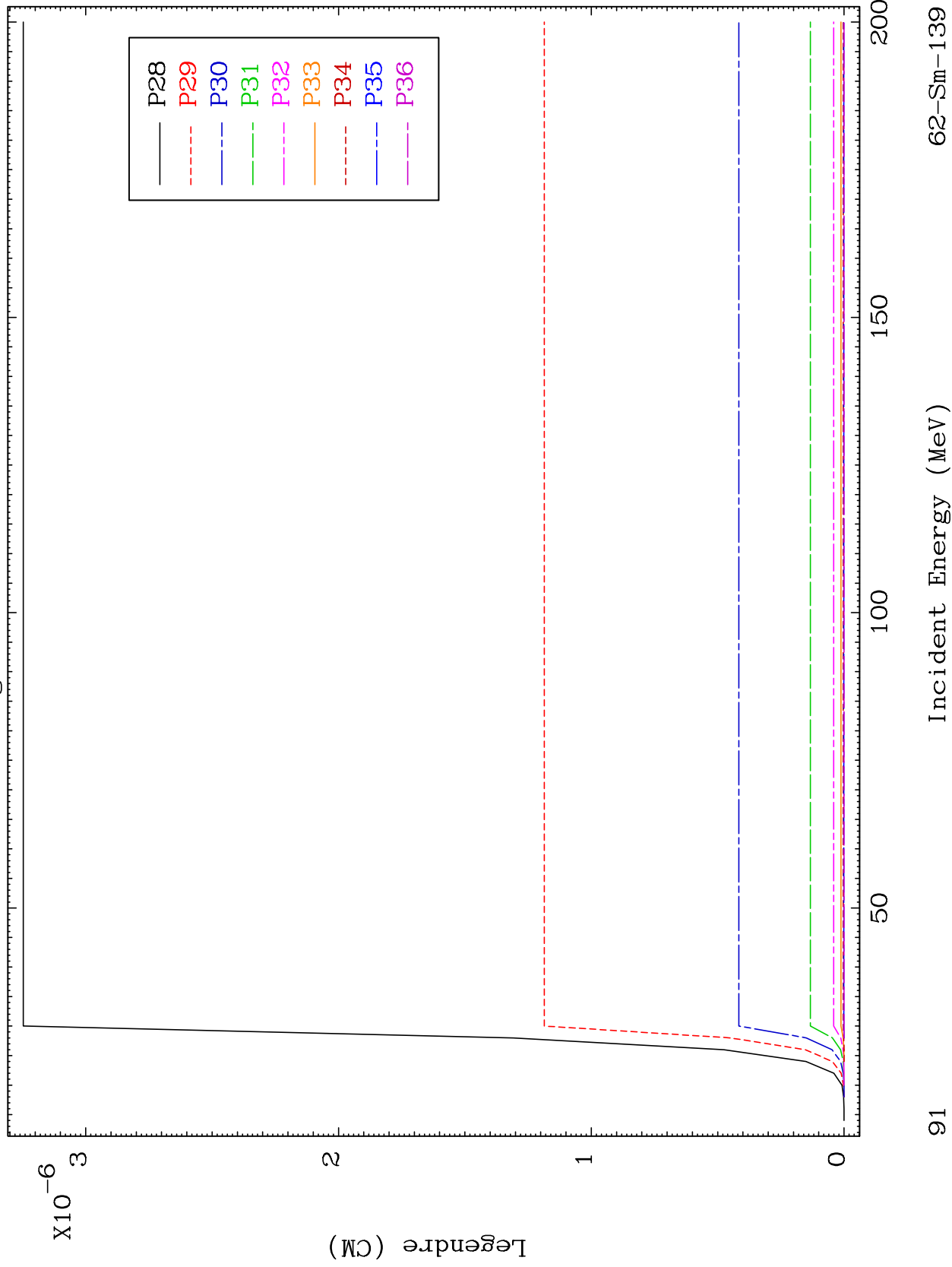
62-Sm-139



MAT 6210

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

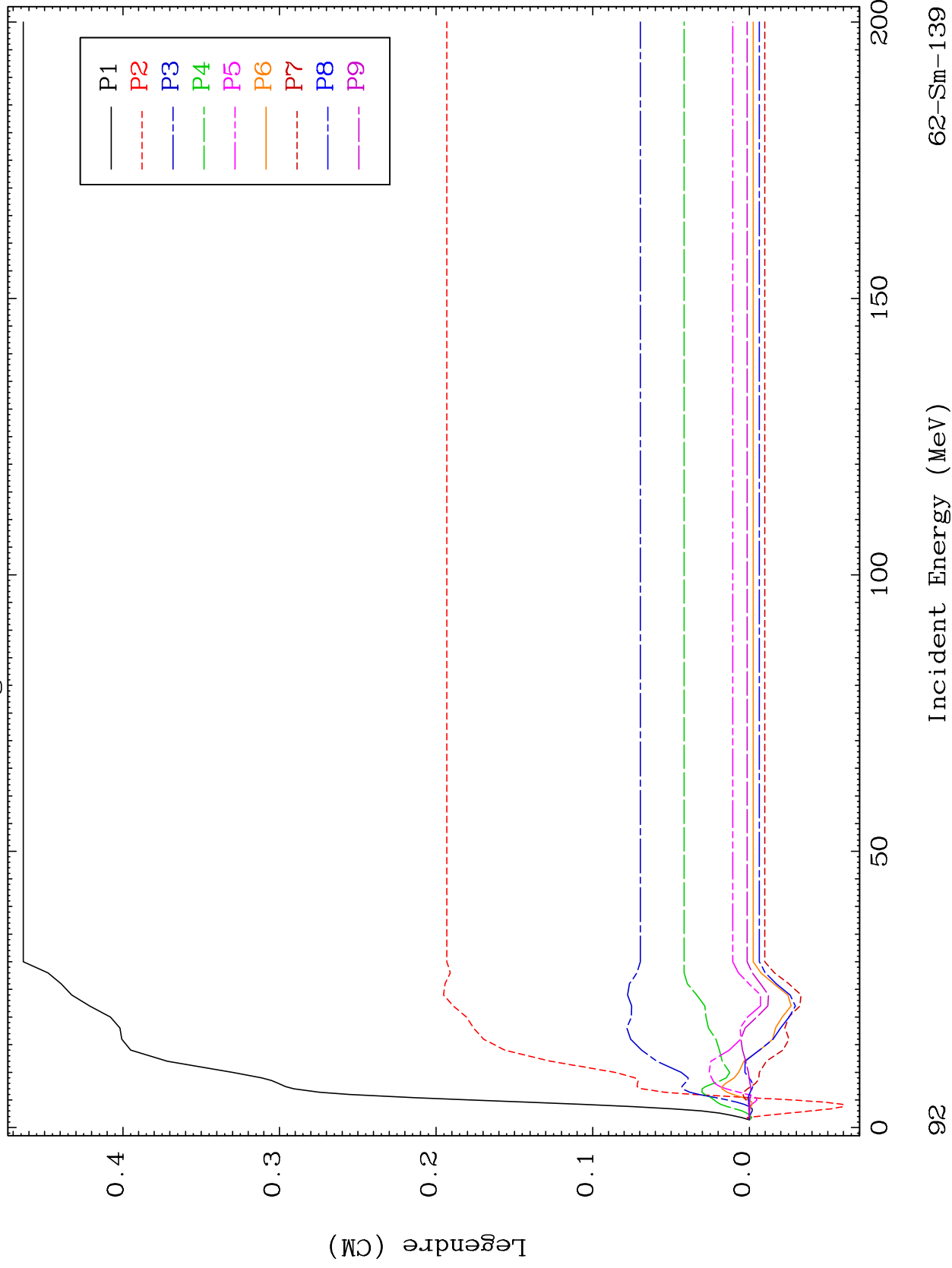
62-Sm-139



MAT 6210

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

62-Sm-139



62-Sm-139

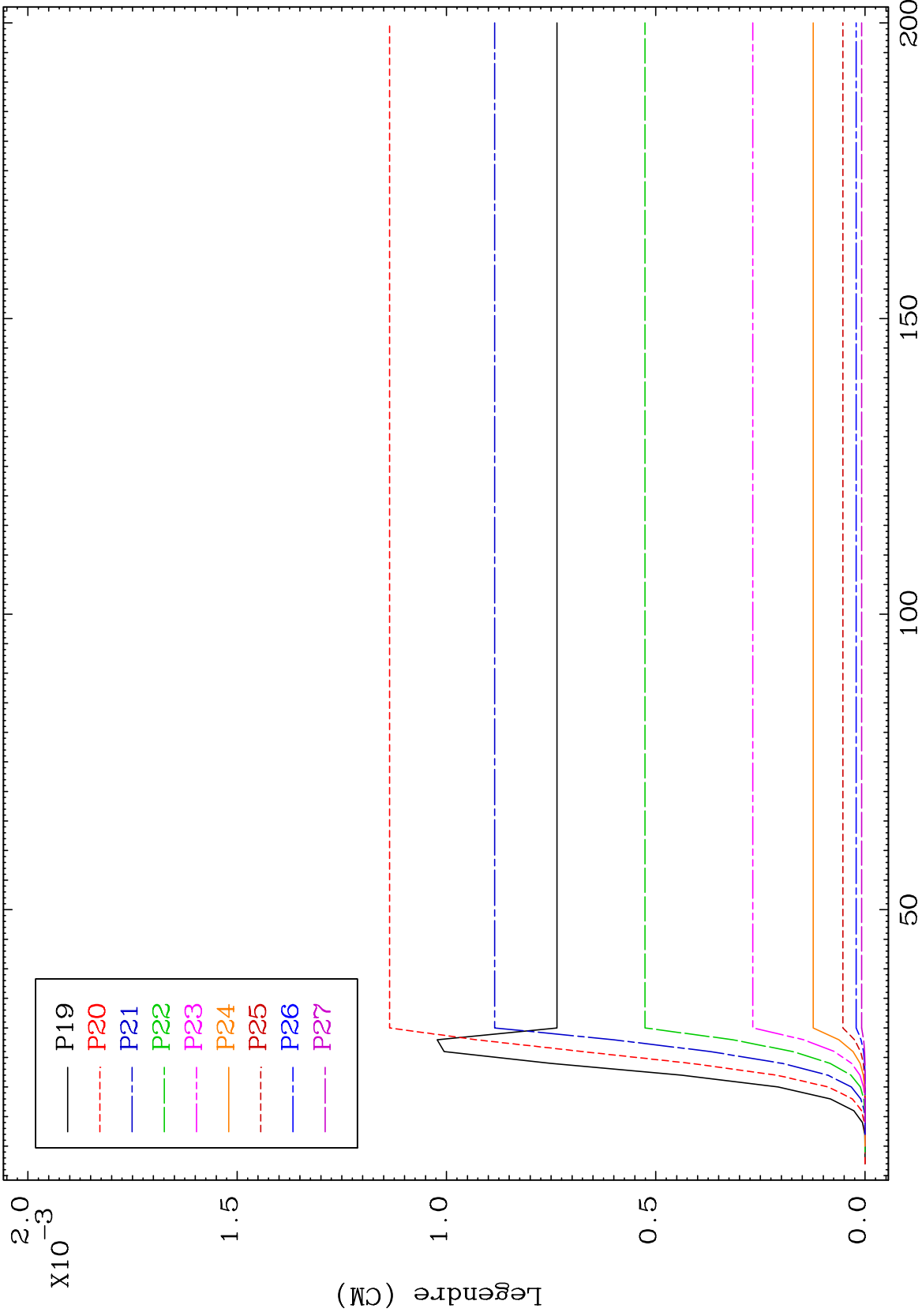
Incident Energy (MeV)

92

MAT 6210

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

62-Sm-139



94

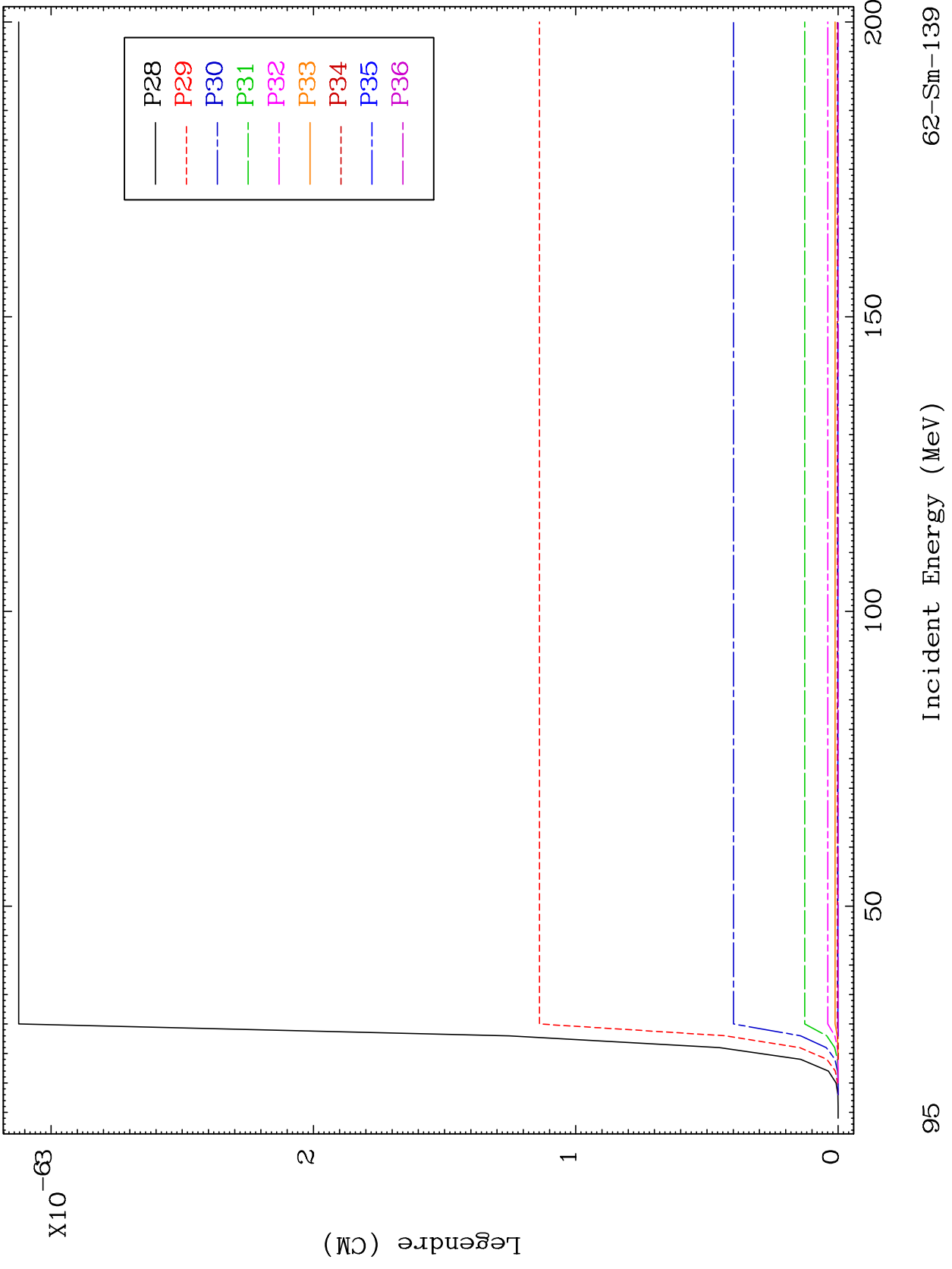
Incident Energy (MeV)

62-Sm-139

MAT 6210

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

62-Sm-139



95

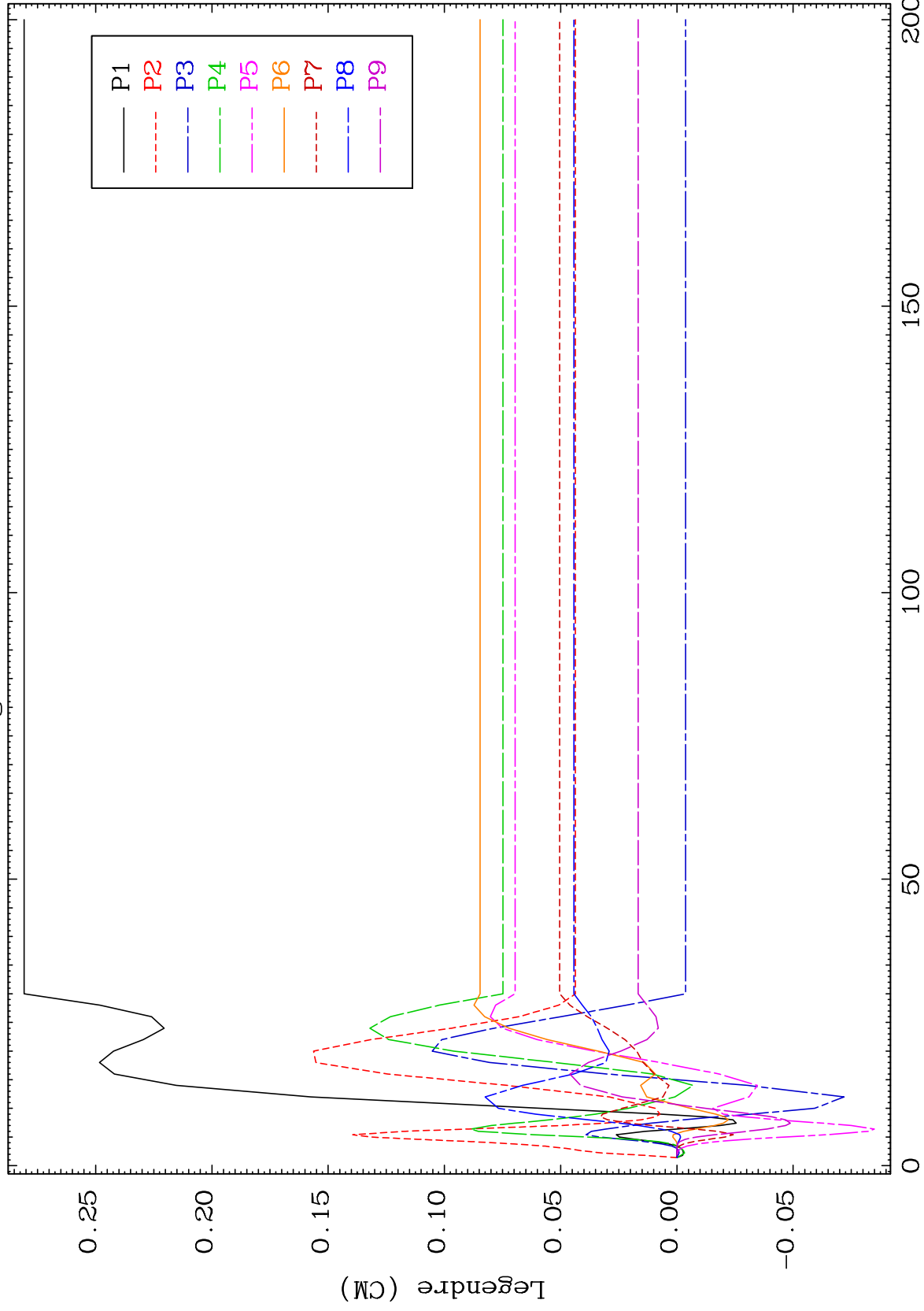
Incident Energy (MeV)

62-Sm-139

MAT 6210

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

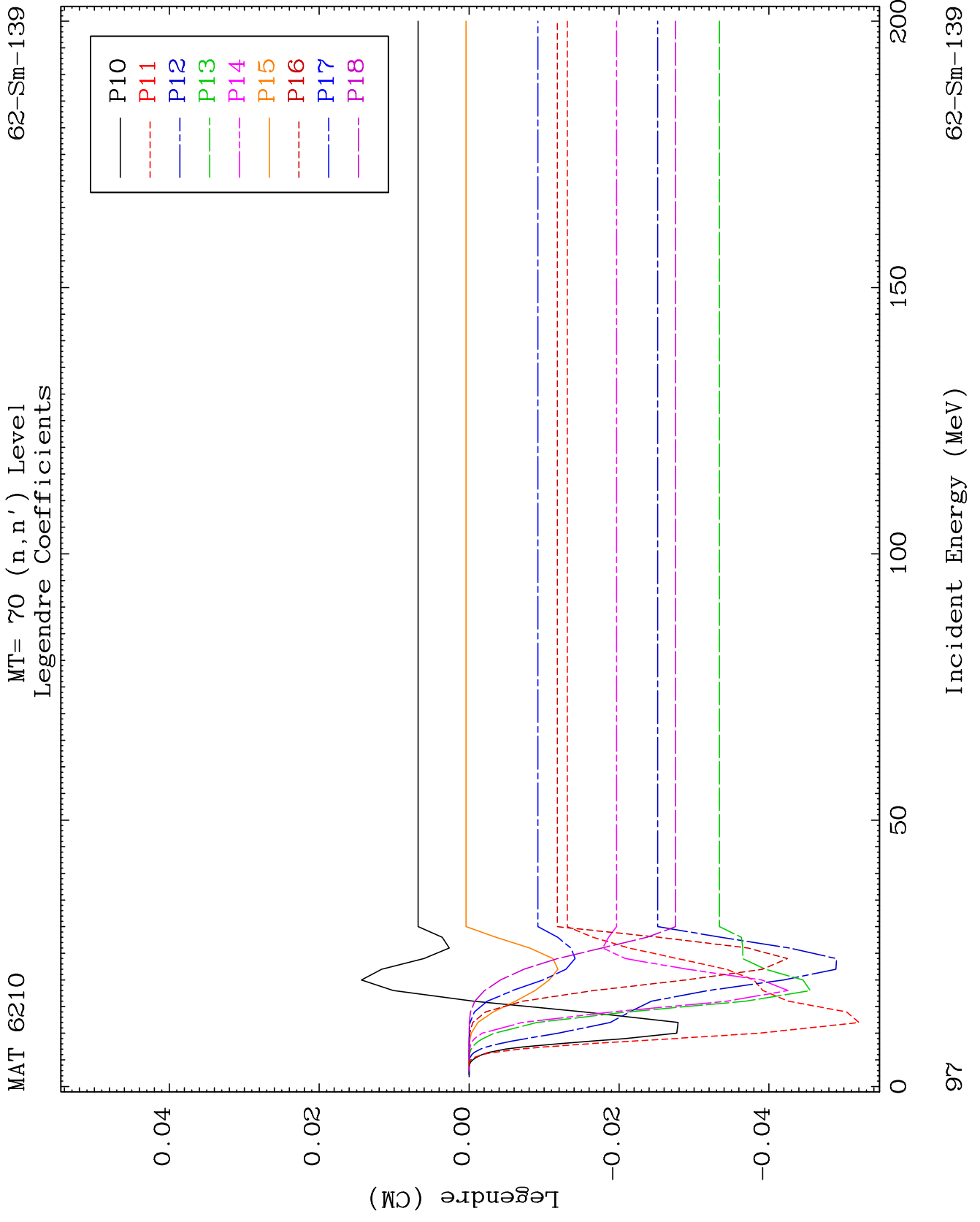
62-Sm-139

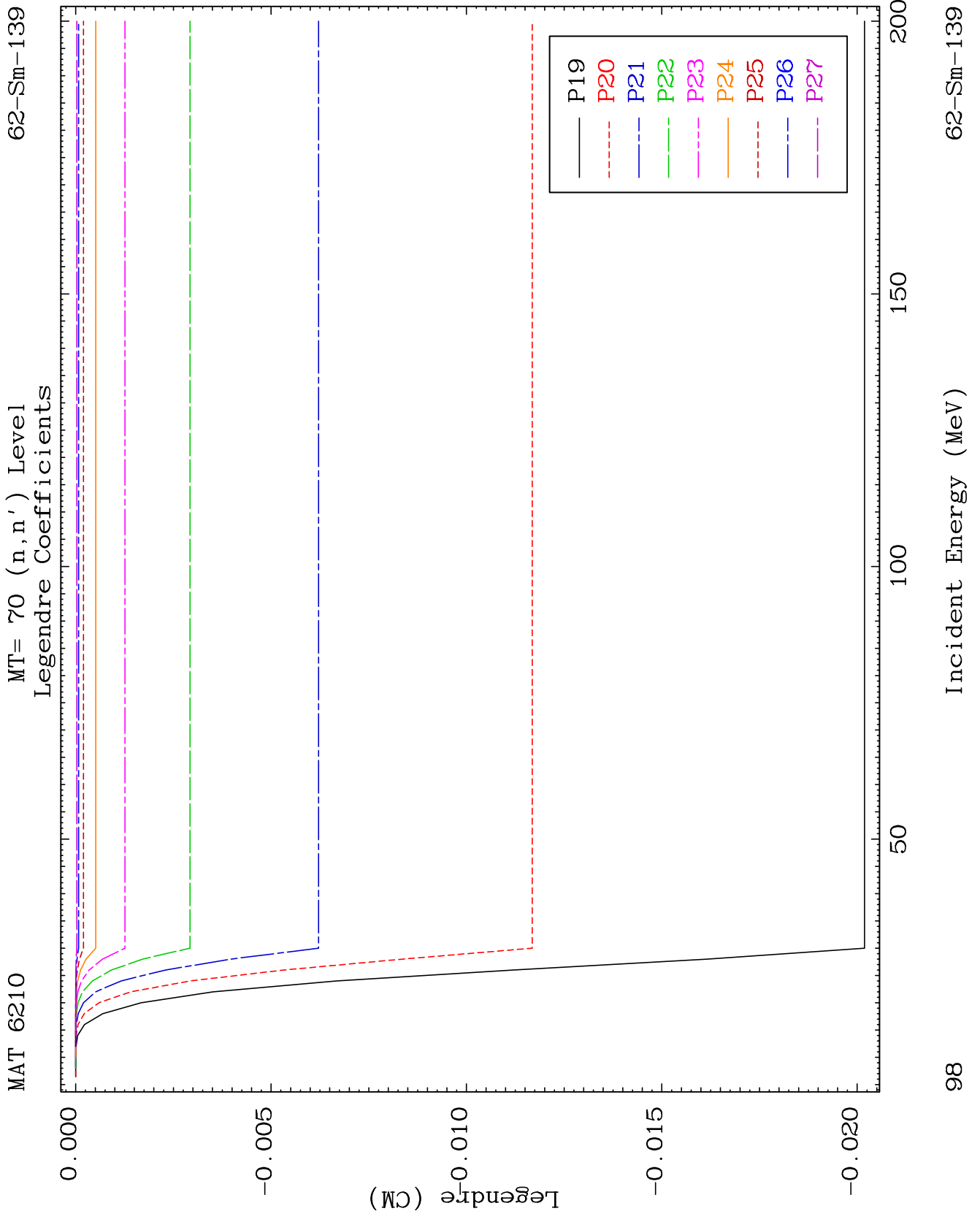


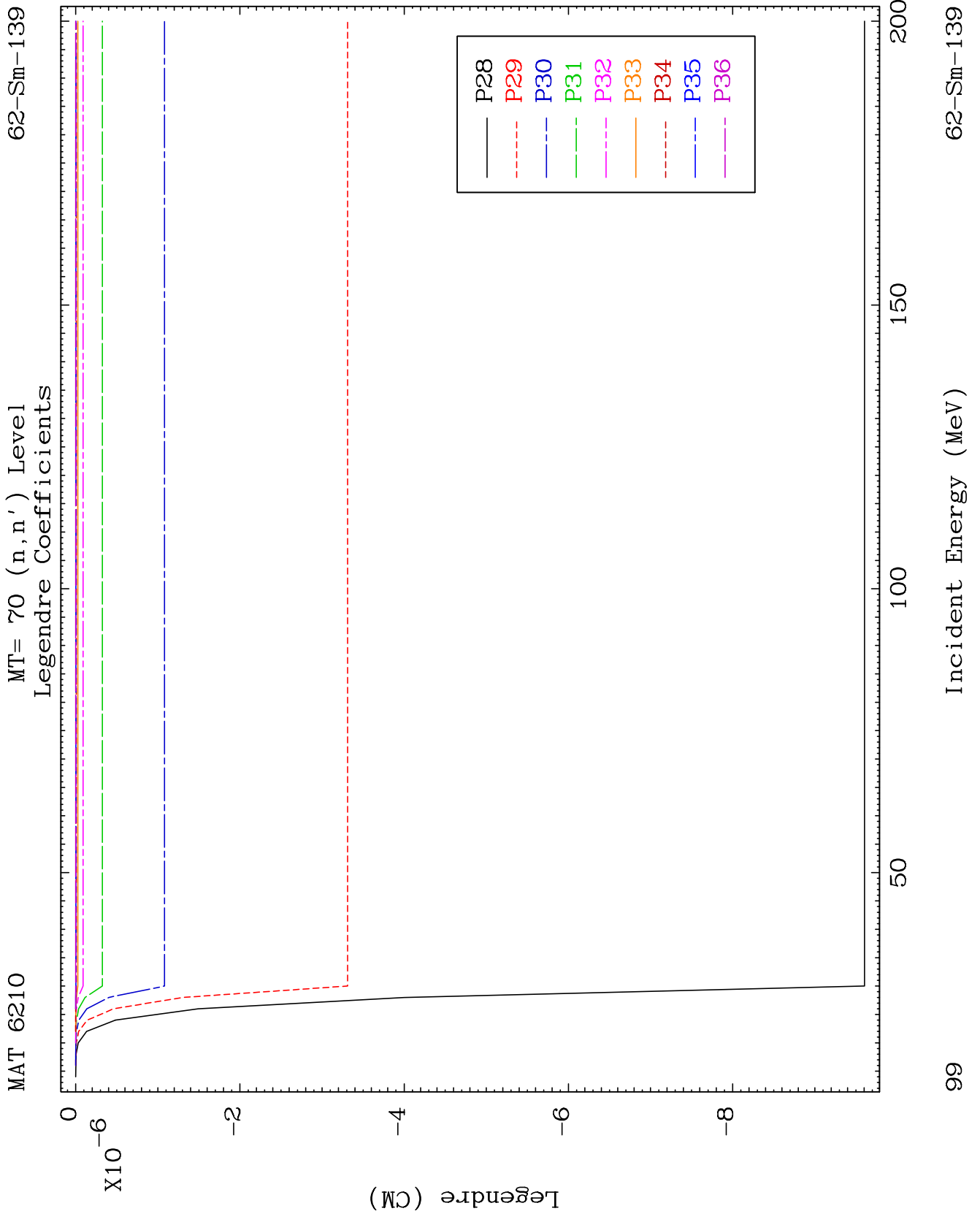
96

Incident Energy (MeV)

62-Sm-139



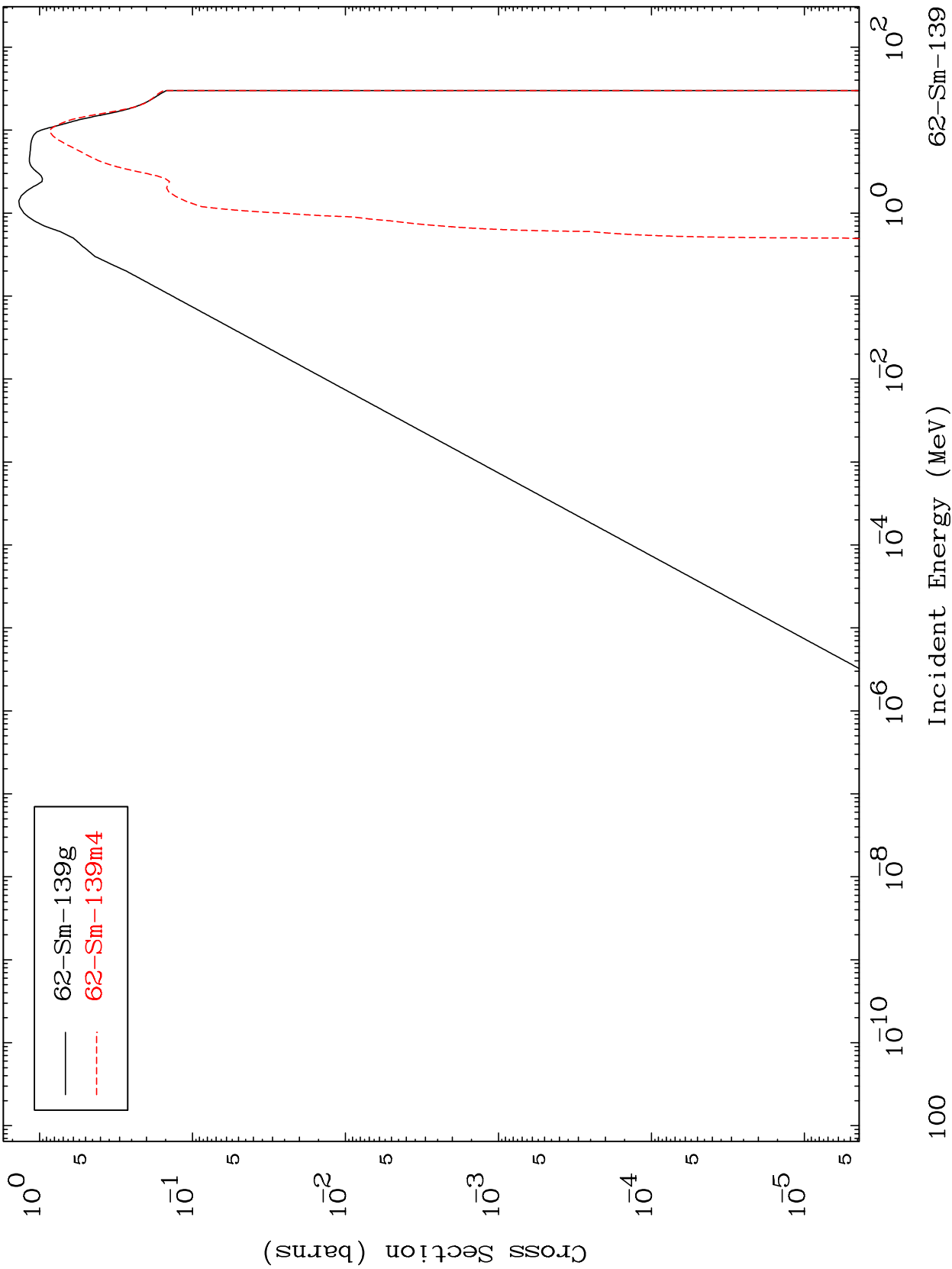




MAT 6210

Inelastic
Radionuclide Production Cross Section

62-Sm-139



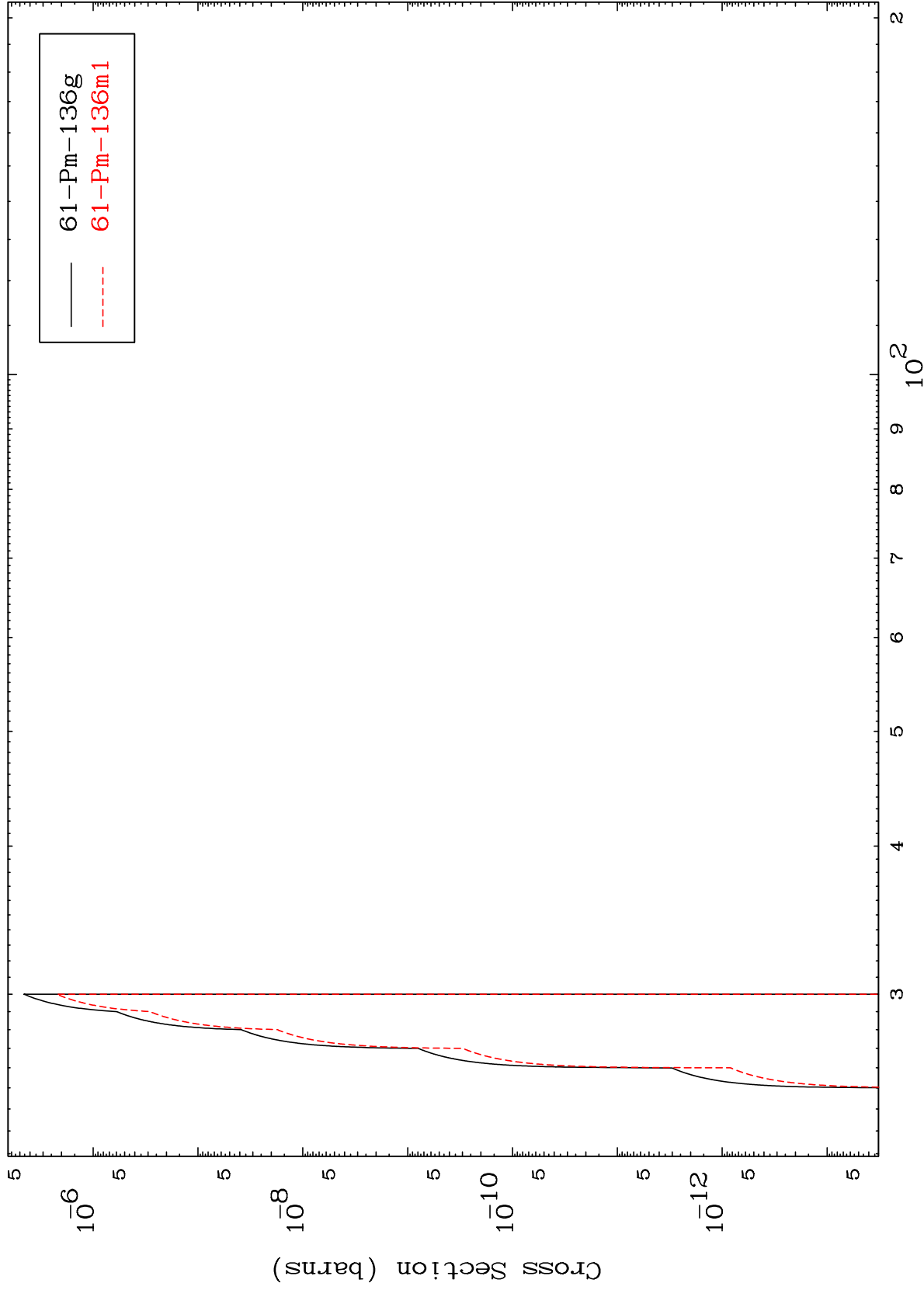
100

MAT 6210

(n,2n) d

62-Sm-139

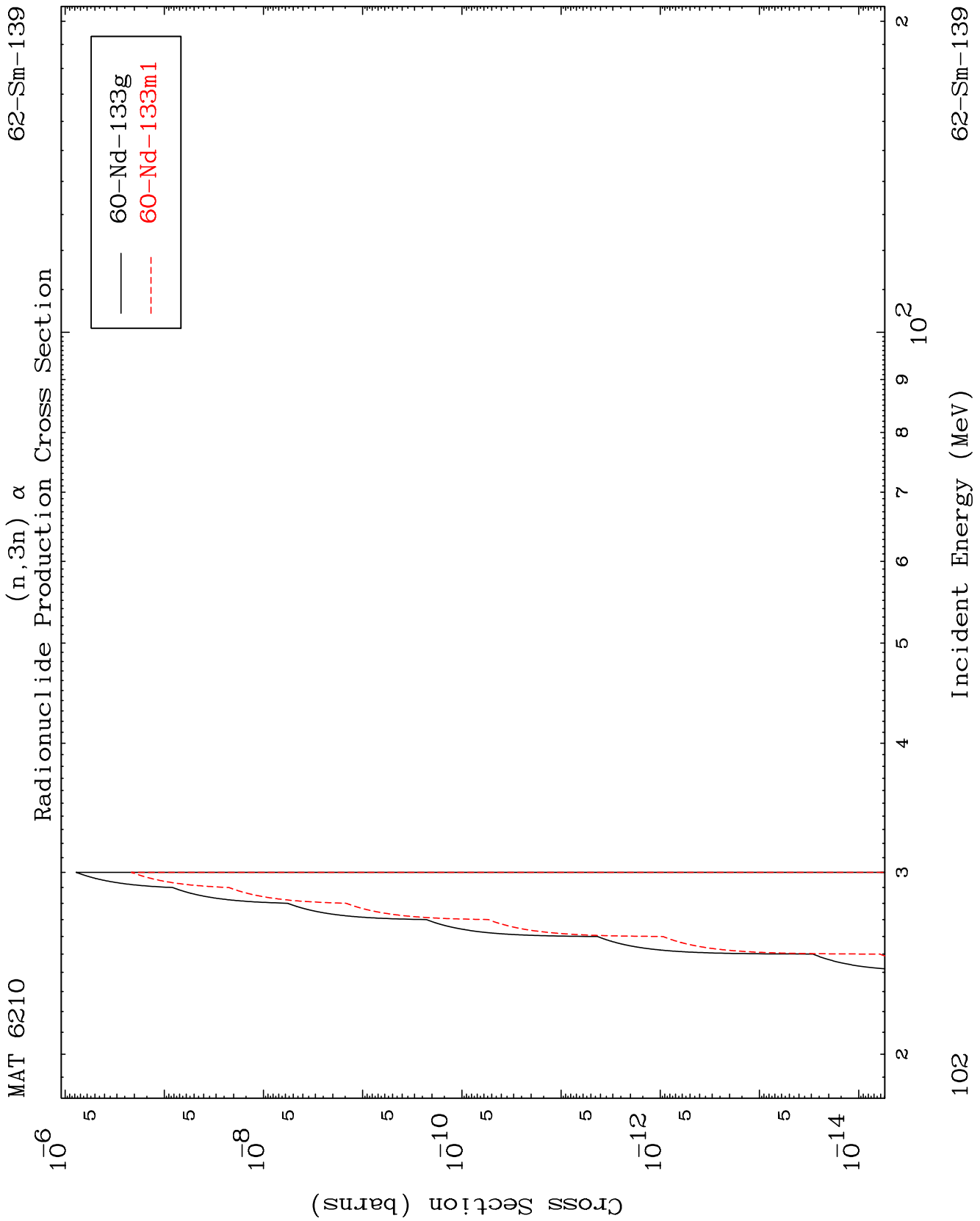
Radionuclide Production Cross Section



101

Incident Energy (MeV)

62-Sm-139

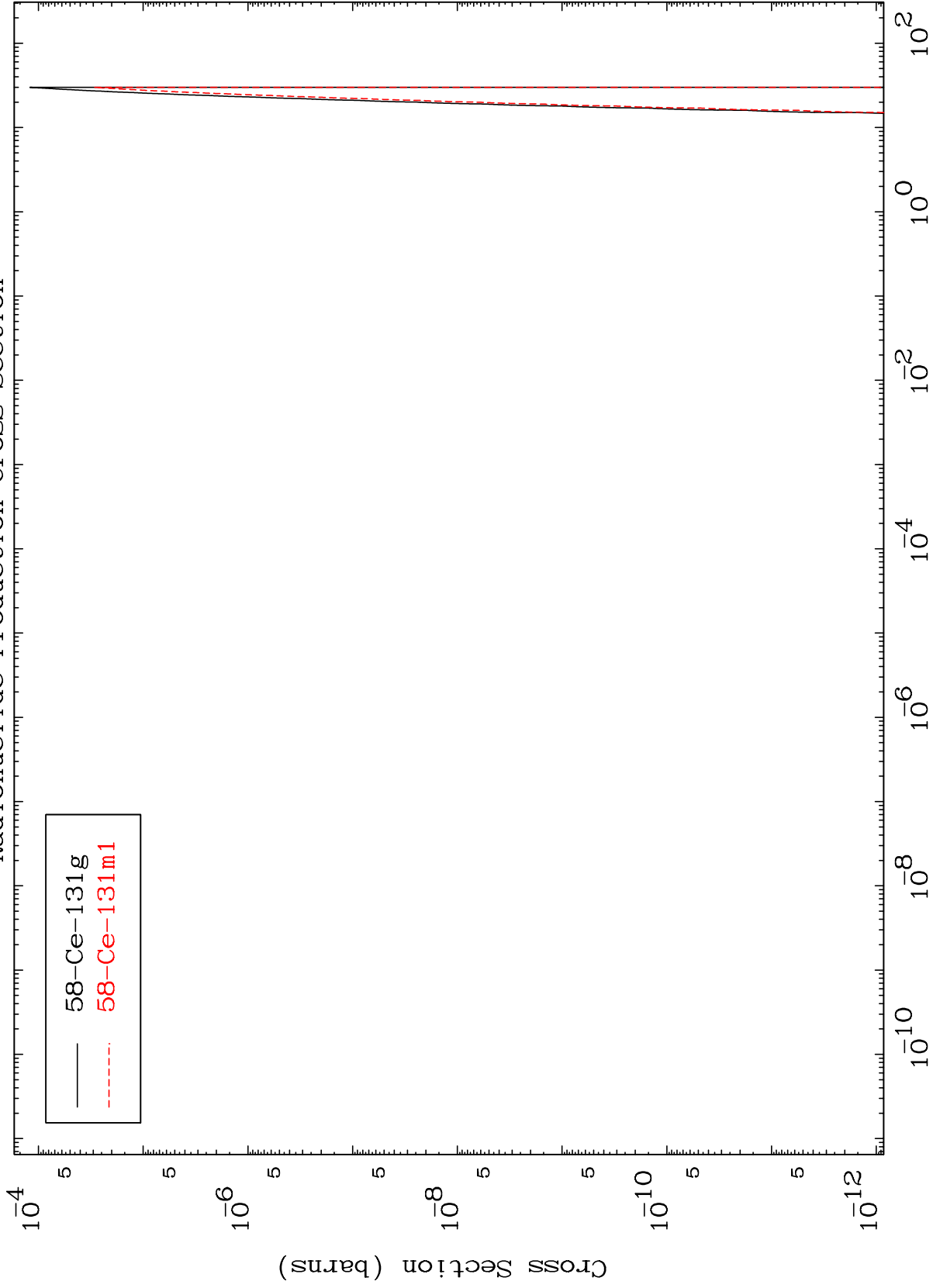


MAT 6210

(n,n') 2α

62-Sm-139

Radionuclide Production Cross Section



103

Incident Energy (MeV)

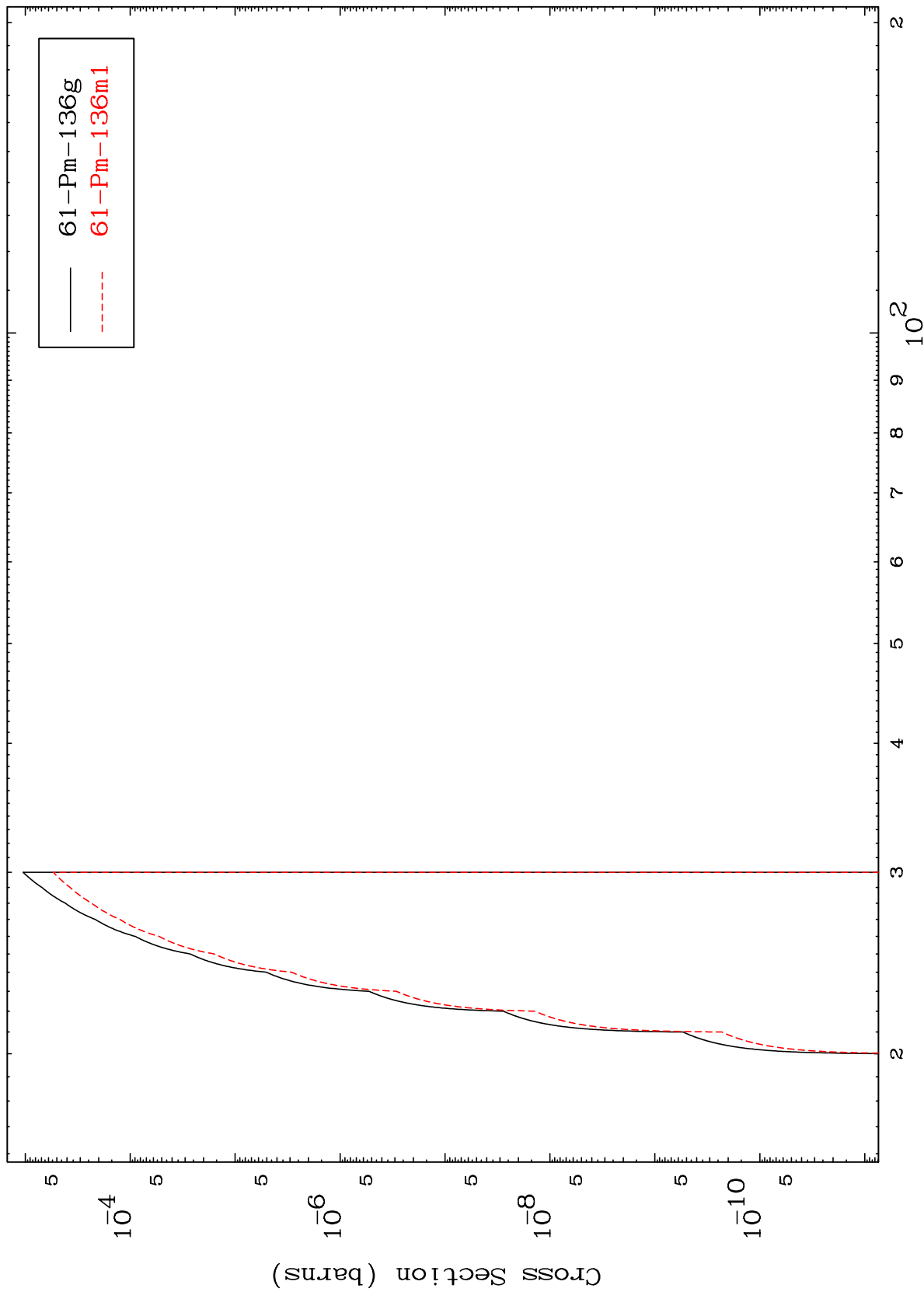
62-Sm-139

MAT 6210

(n,n') t

62-Sm-139

Radionuclide Production Cross Section



104

Incident Energy (MeV)

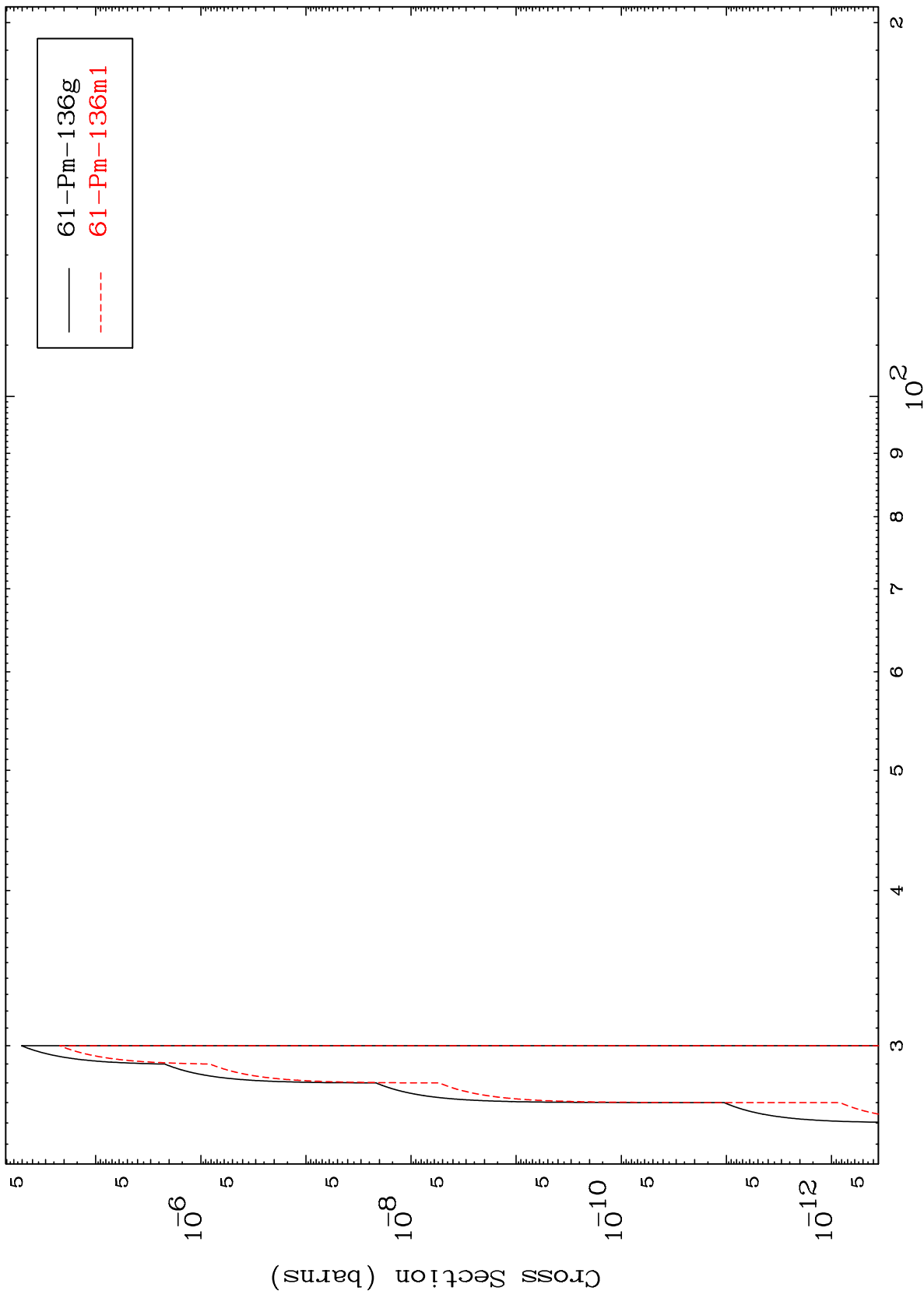
62-Sm-139

MAT 6210

(n,3n) p

62-Sm-139

Radionuclide Production Cross Section



105

Incident Energy (MeV)

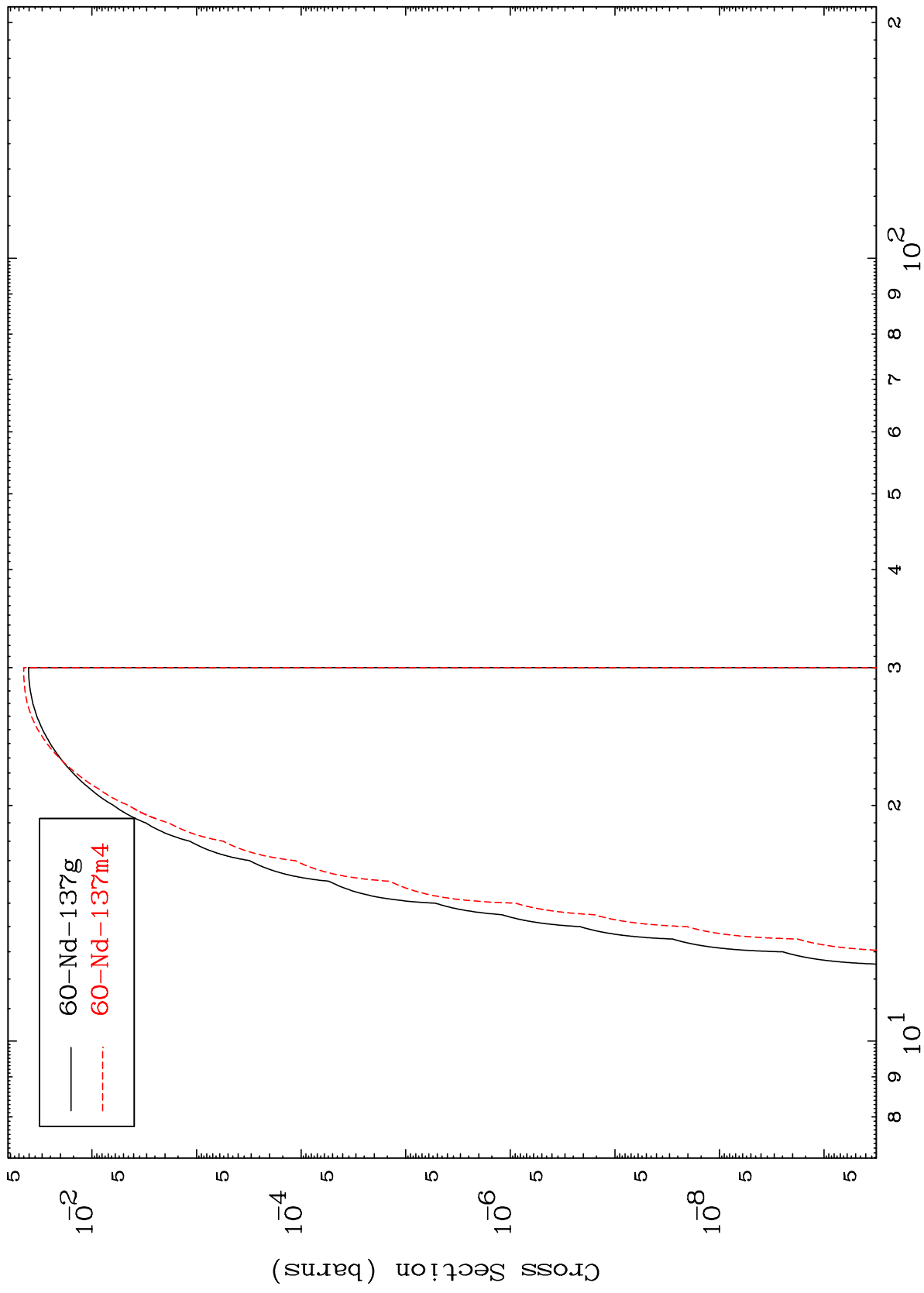
62-Sm-139

MAT 6210

(n,2n) p

62-Sm-139

Radionuclide Production Cross Section



106

Incident Energy (MeV)

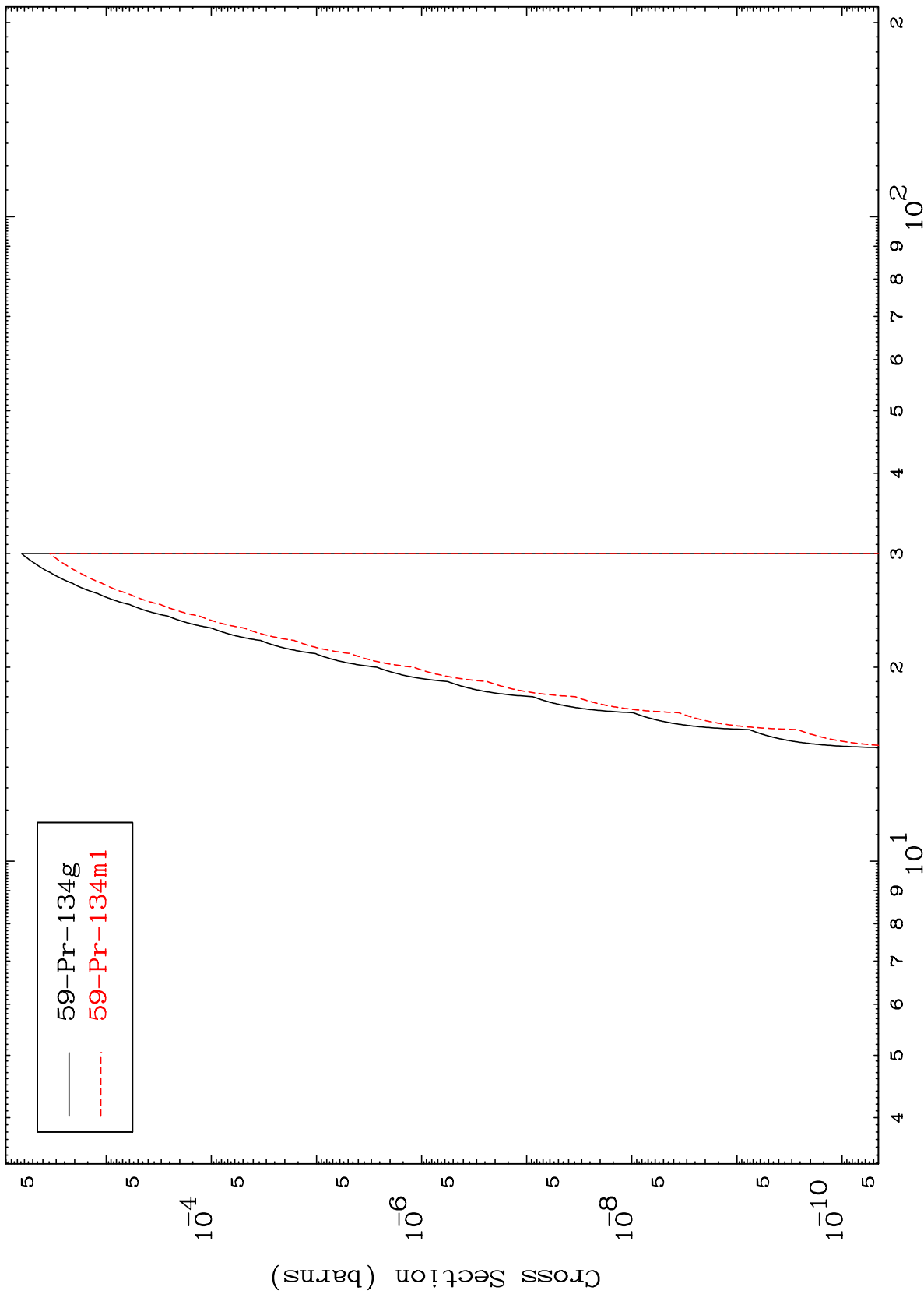
62-Sm-139

MAT 6210

(n,n') p α

62-Sm-139

Radionuclide Production Cross Section



107

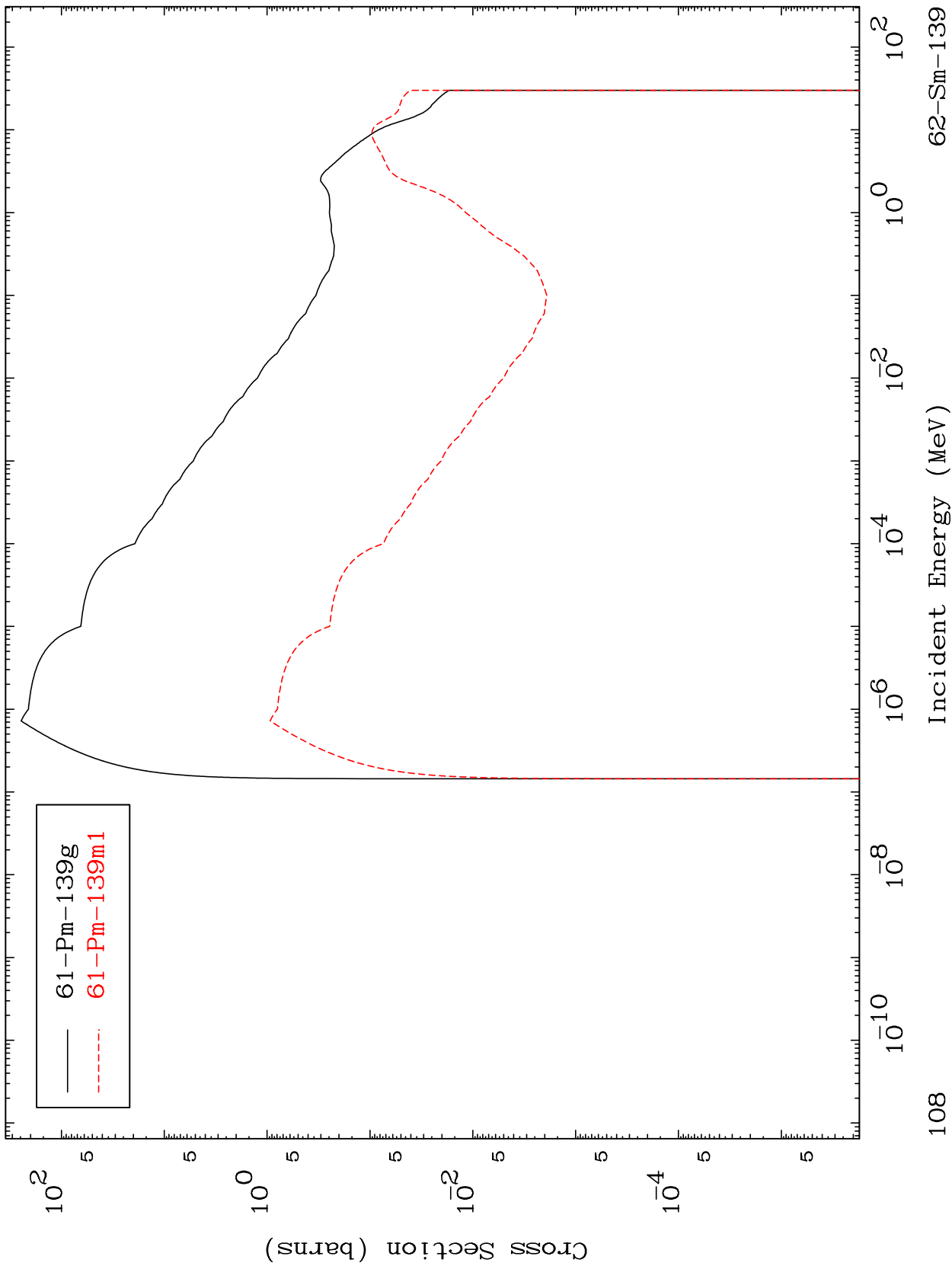
Incident Energy (MeV)

62-Sm-139

MAT 6210

62-Sm-139

(n,p)
Radionuclide Production Cross Section



108

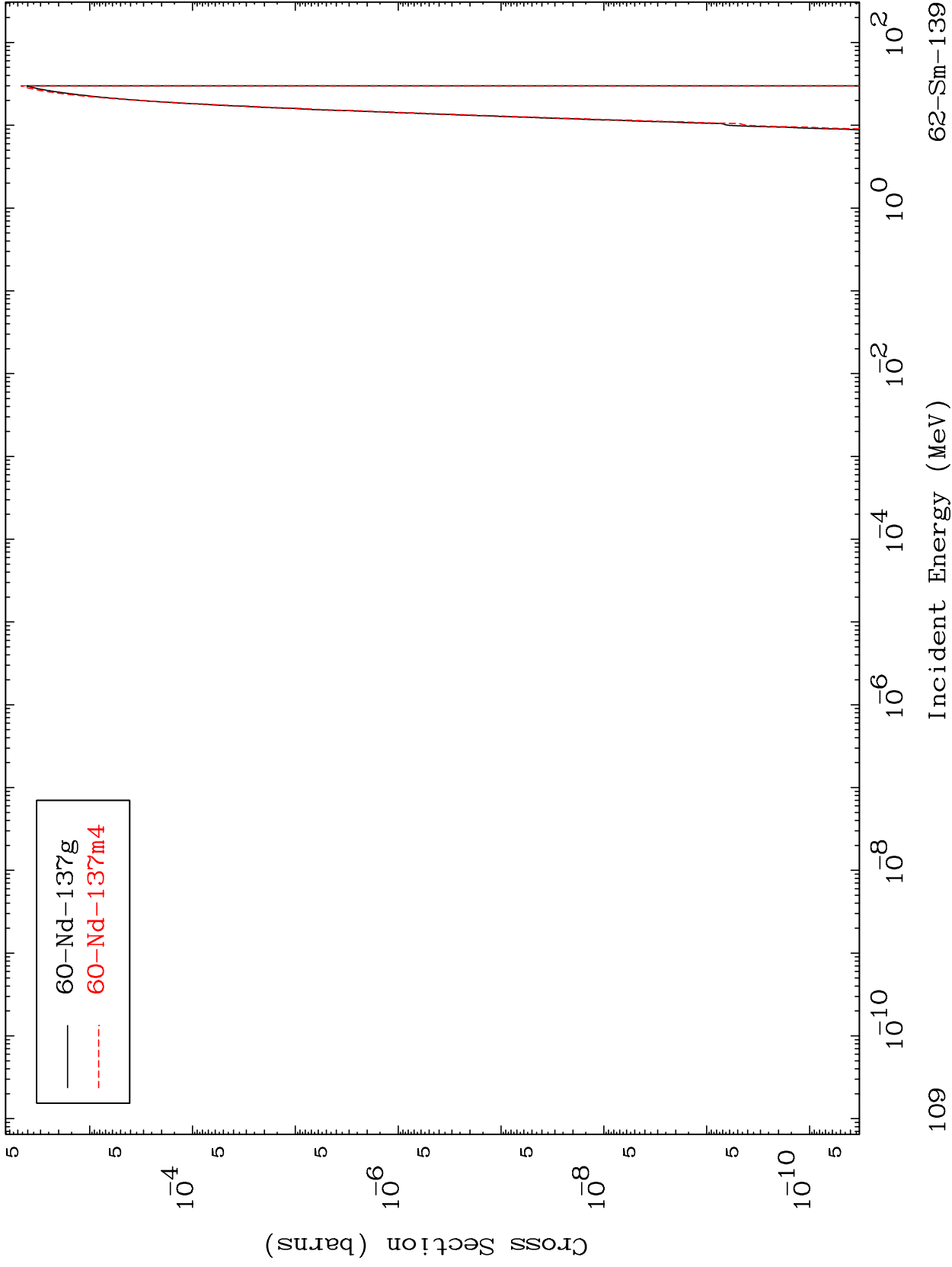
62-Sm-139

MAT 6210

(n,He-3)

62-Sm-139

Radionuclide Production Cross Section

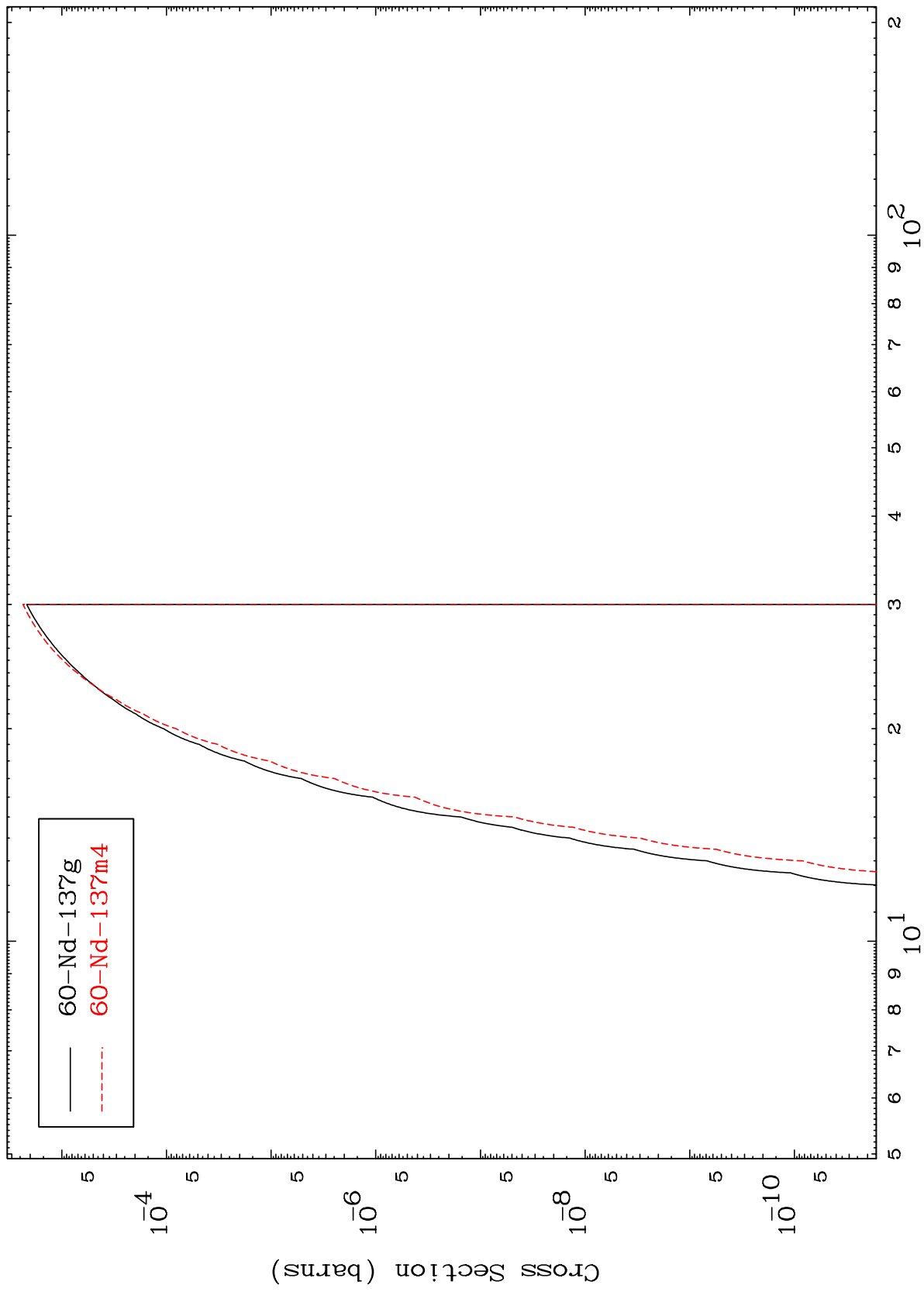


MAT 6210

(n,p) d

62-Sm-139

Radionuclide Production Cross Section



110

Incident Energy (MeV)

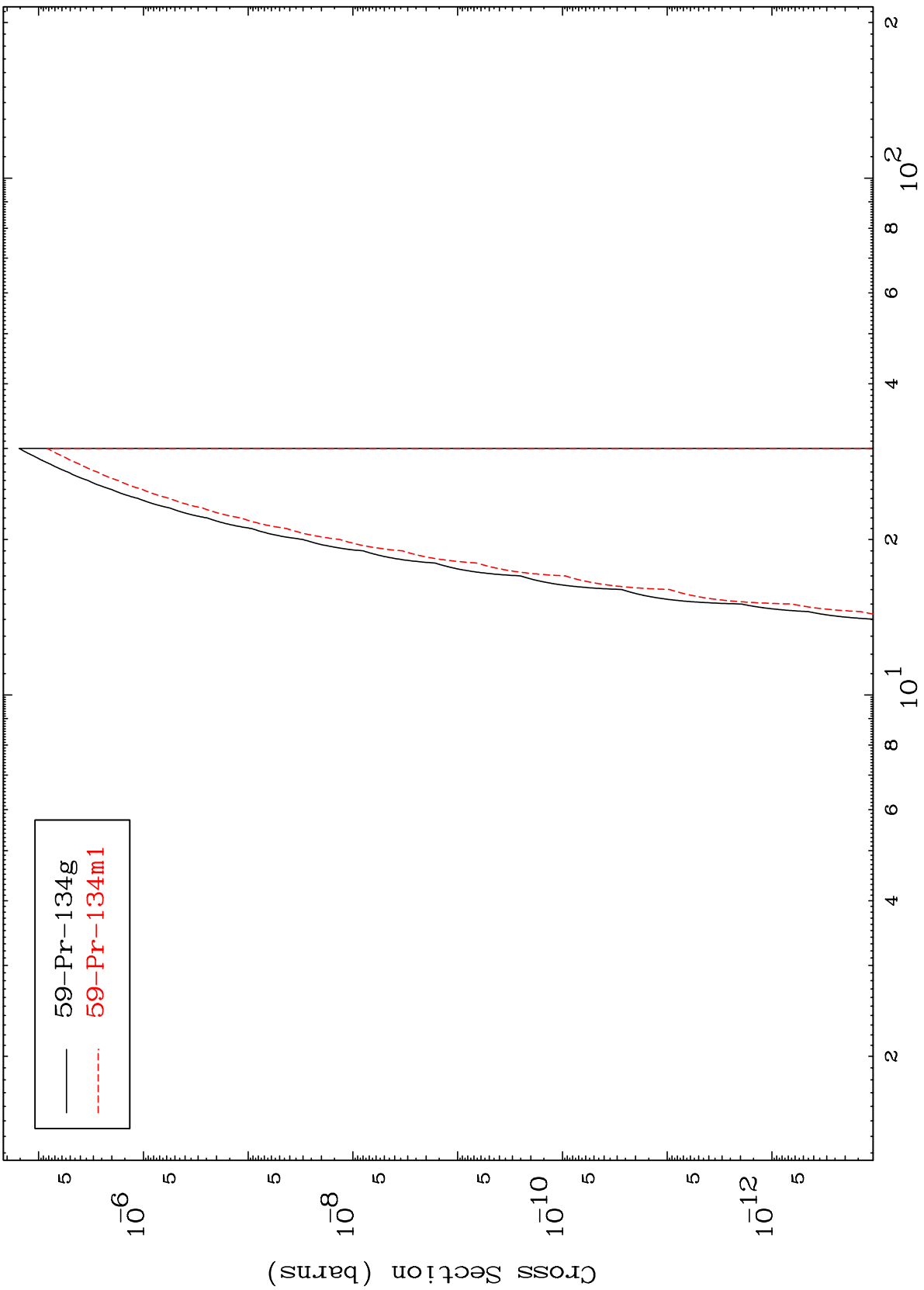
62-Sm-139

MAT 6210

(n,d) α

62-Sm-139

Radionuclide Production Cross Section



111

Incident Energy (MeV)

62-Sm-139