

Program EVALPLOT  
(Version 2017-1)

by

Dermott E. Cullen  
(Present Contact Information)

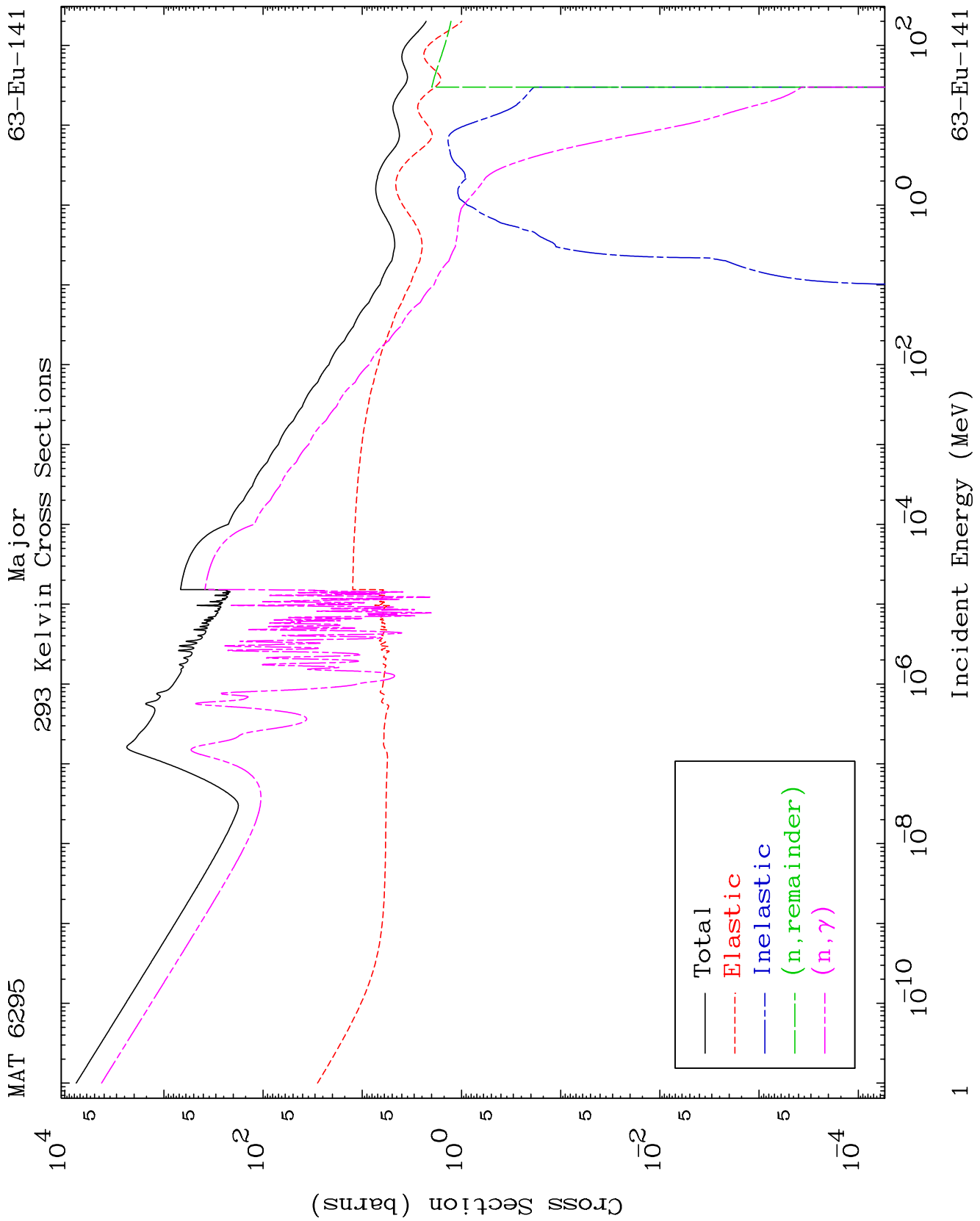
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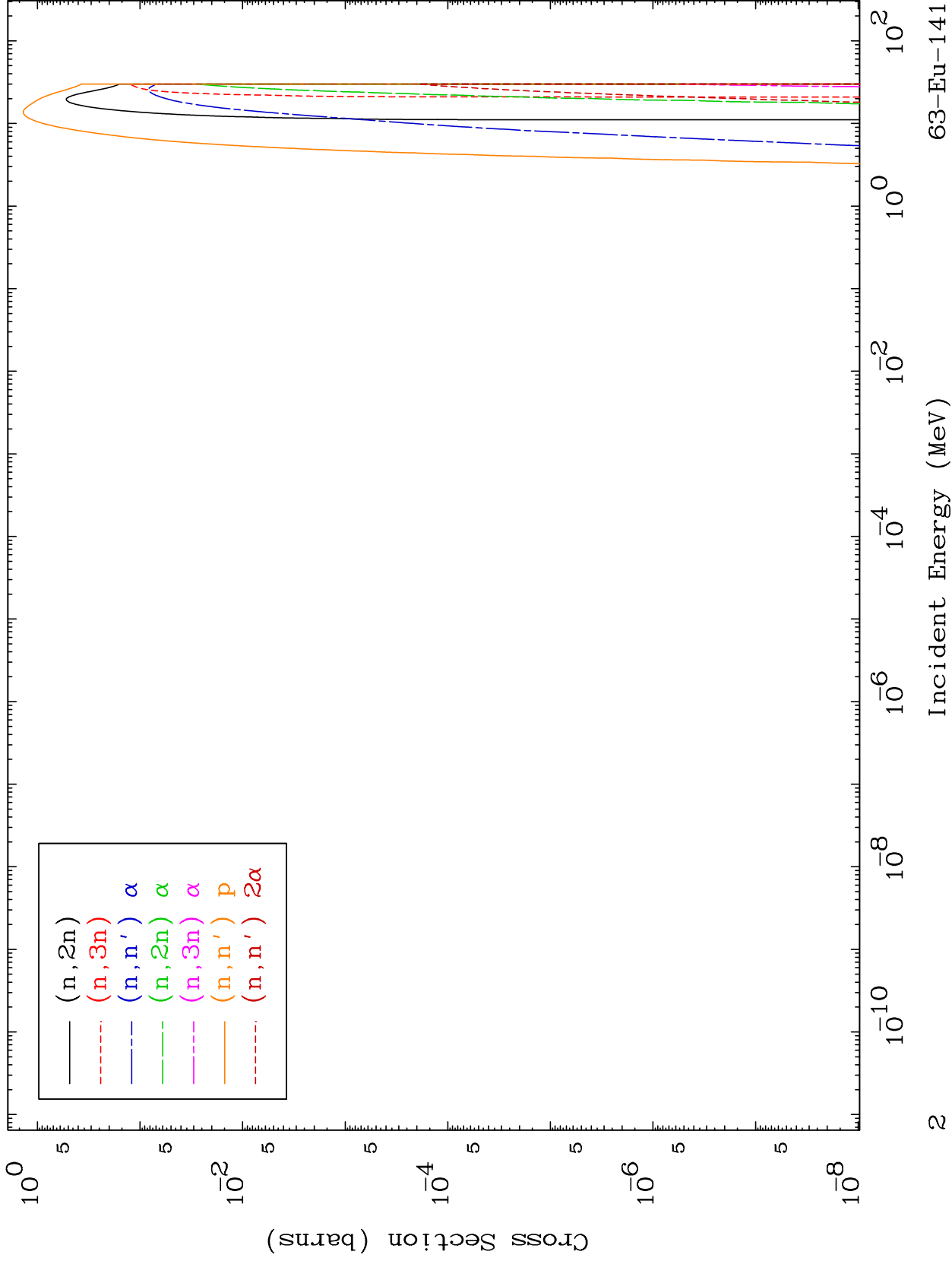
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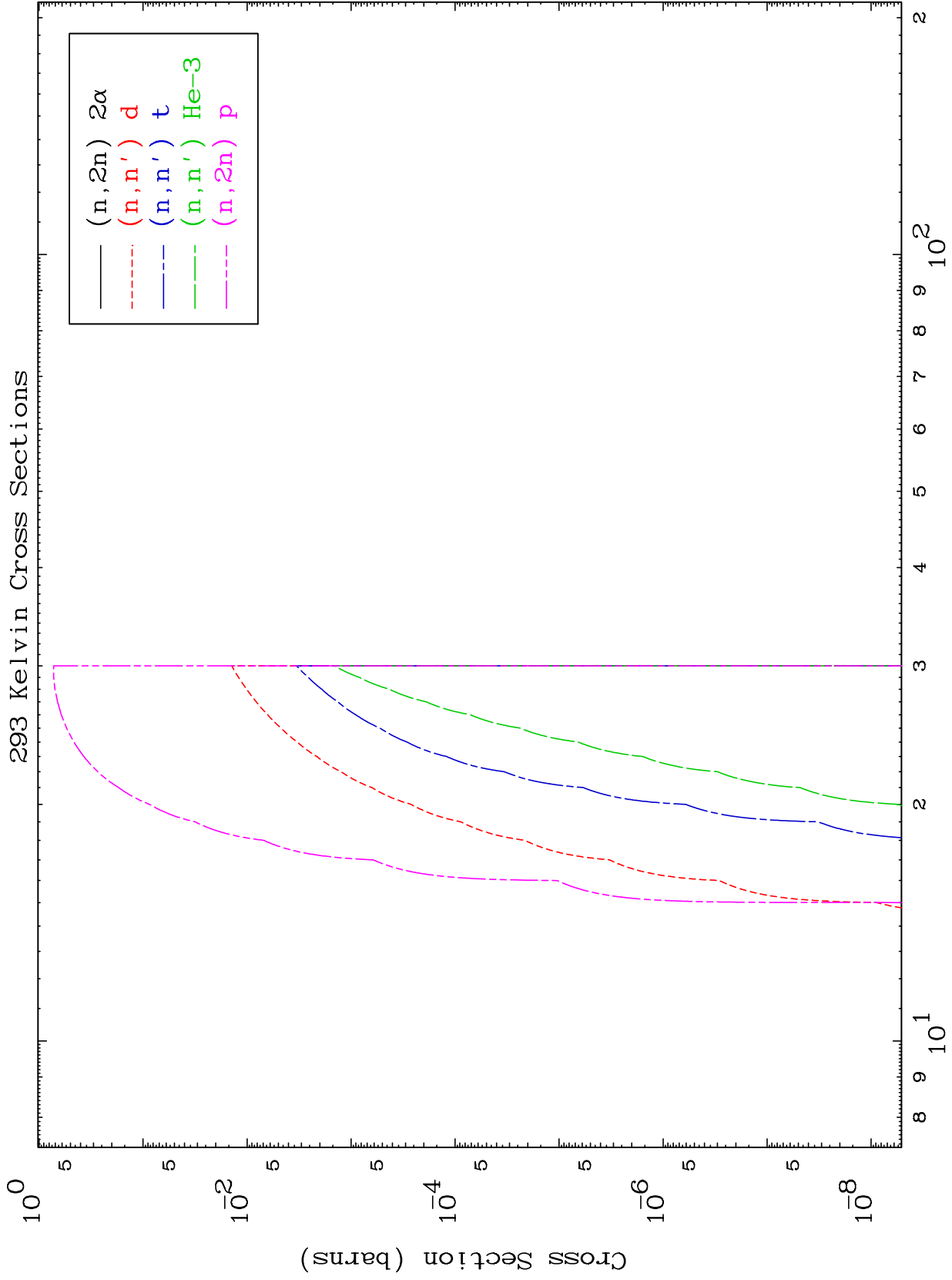


MAT 6295

Neutron Production  
293 Kelvin Cross Sections

63-Eu-141

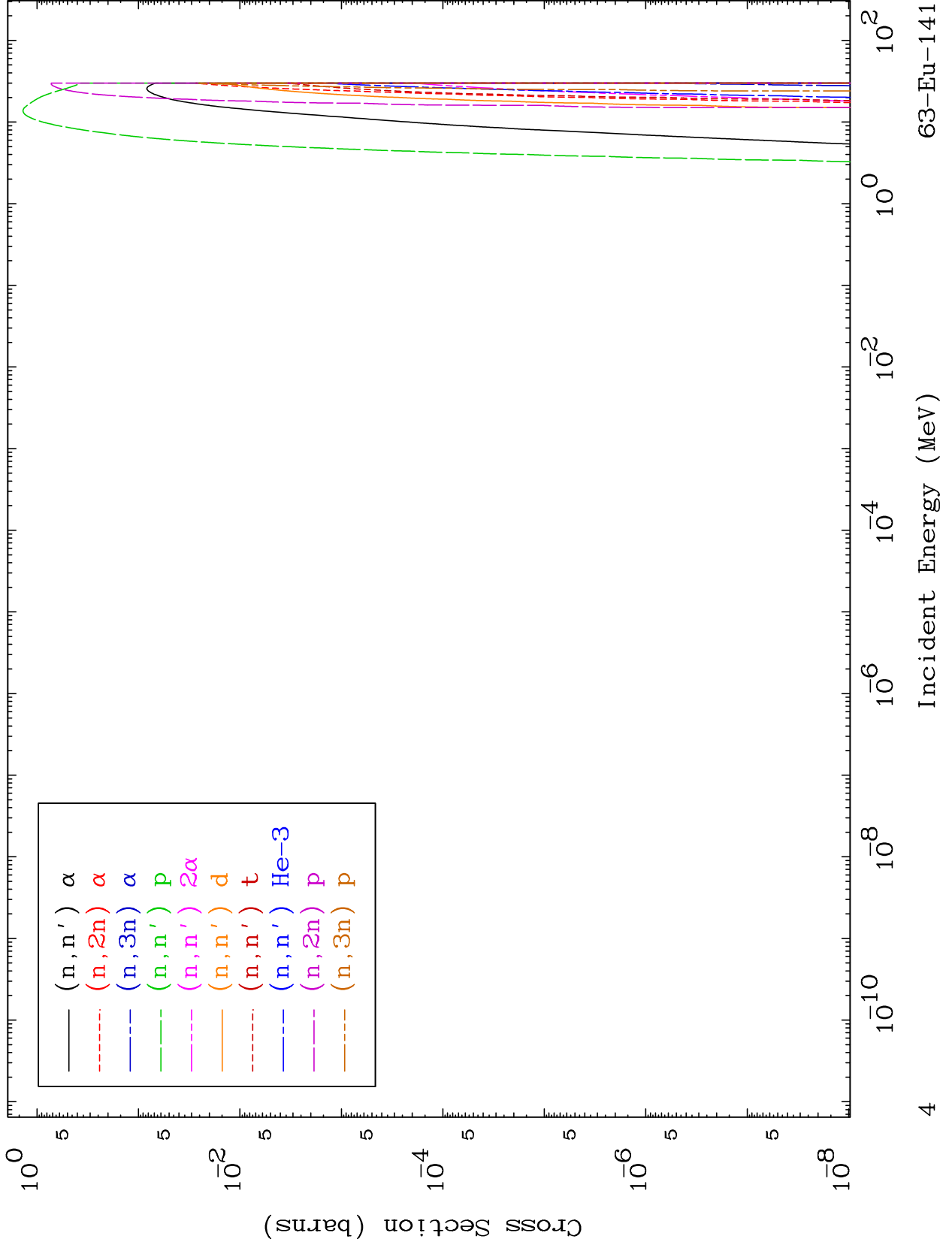




MAT 6295

Charged Particle  
293 Kelvin Cross Sections

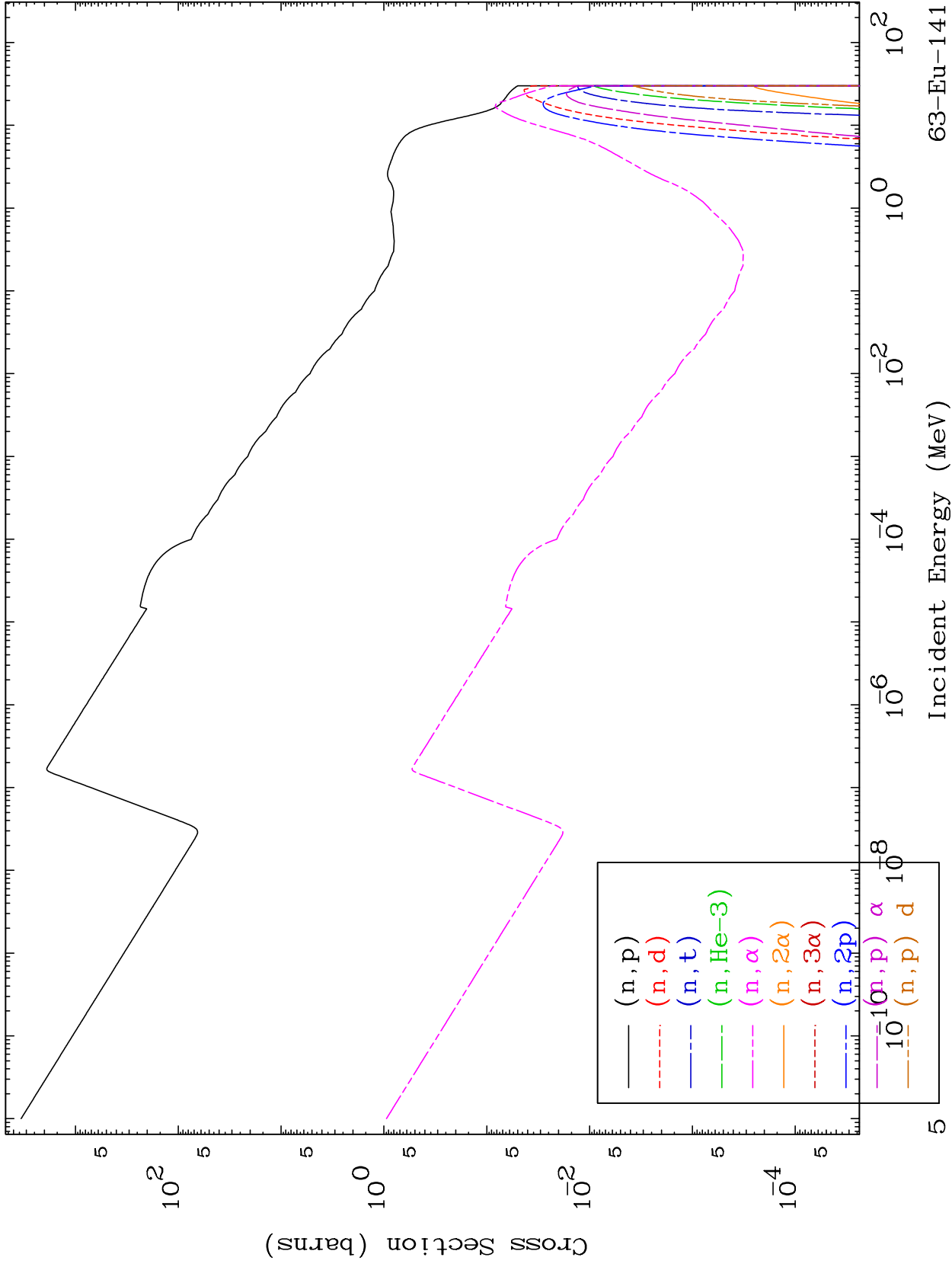
63-Eu-141



MAT 6295

Charged Particle  
293 Kelvin Cross Sections

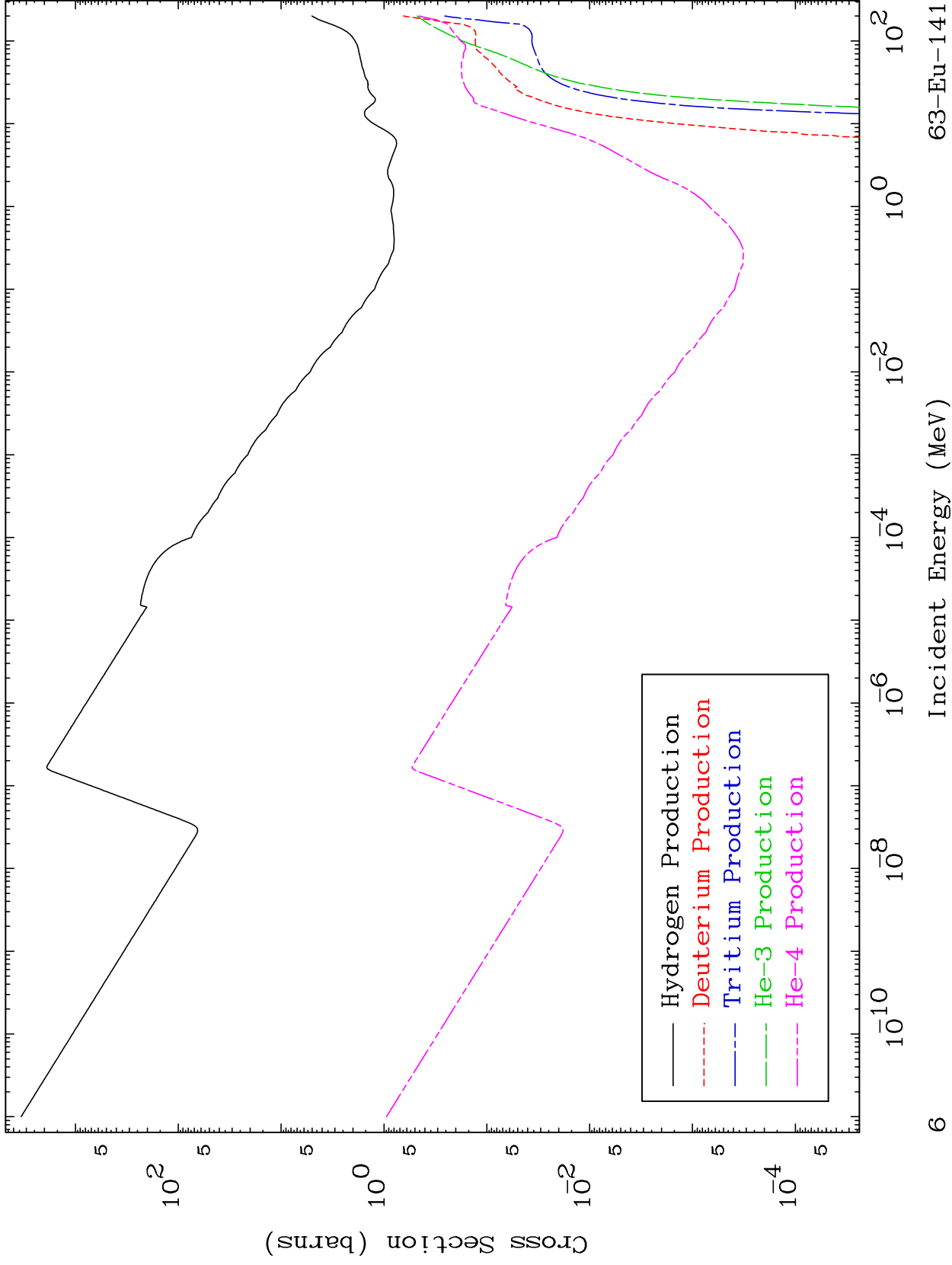
63-Eu-141



MAT 6295

Particle Production  
293 Kelvin Cross Sections

63-Eu-141

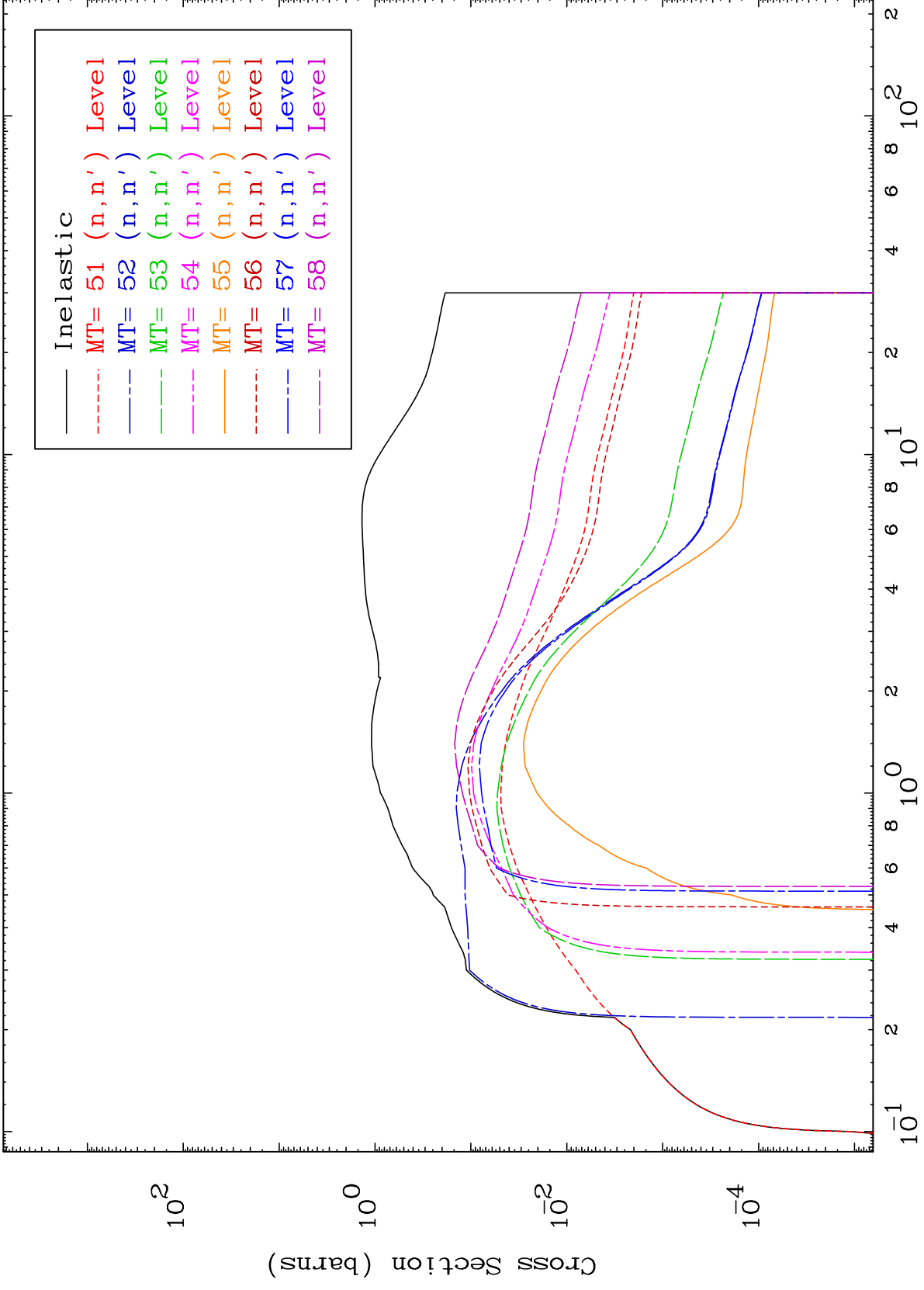


MAT 6295

(n,n') Level

63-Eu-141

293 Kelvin Cross Sections



Incident Energy (MeV)

63-Eu-141

7

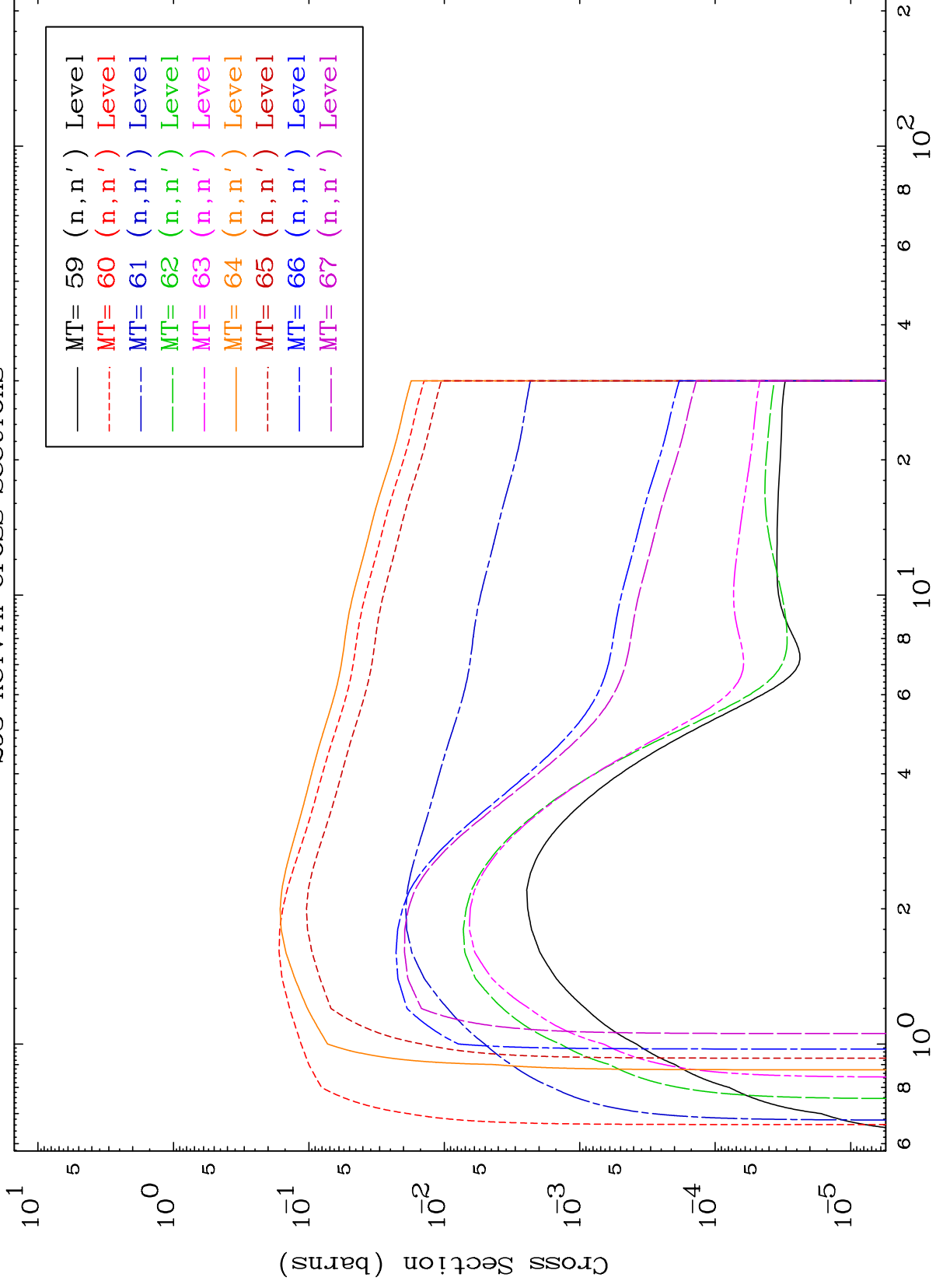


MAT 6295

(n,n') Level

63-Eu-141

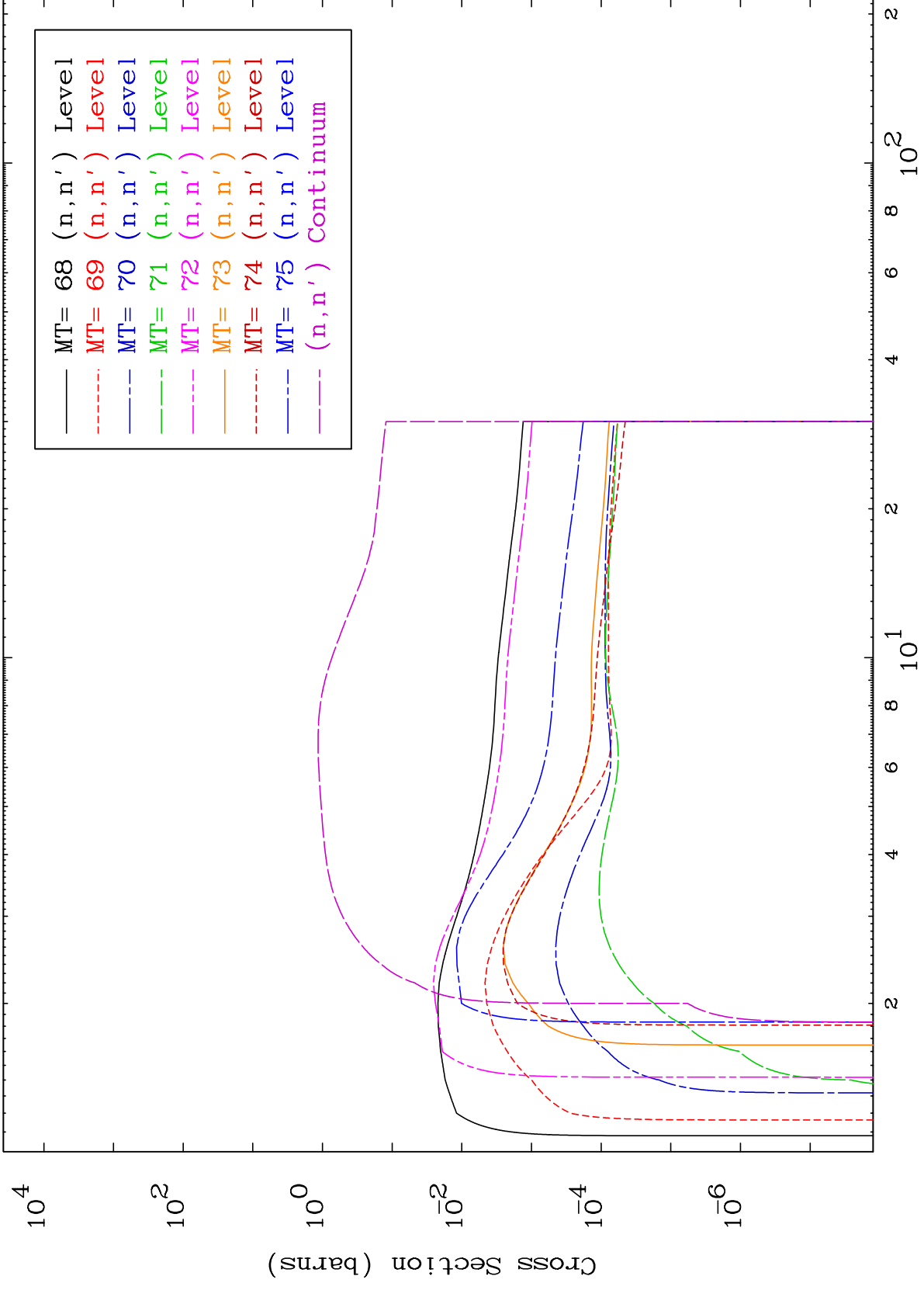
293 Kelvin Cross Sections



Incident Energy (MeV)

63-Eu-141

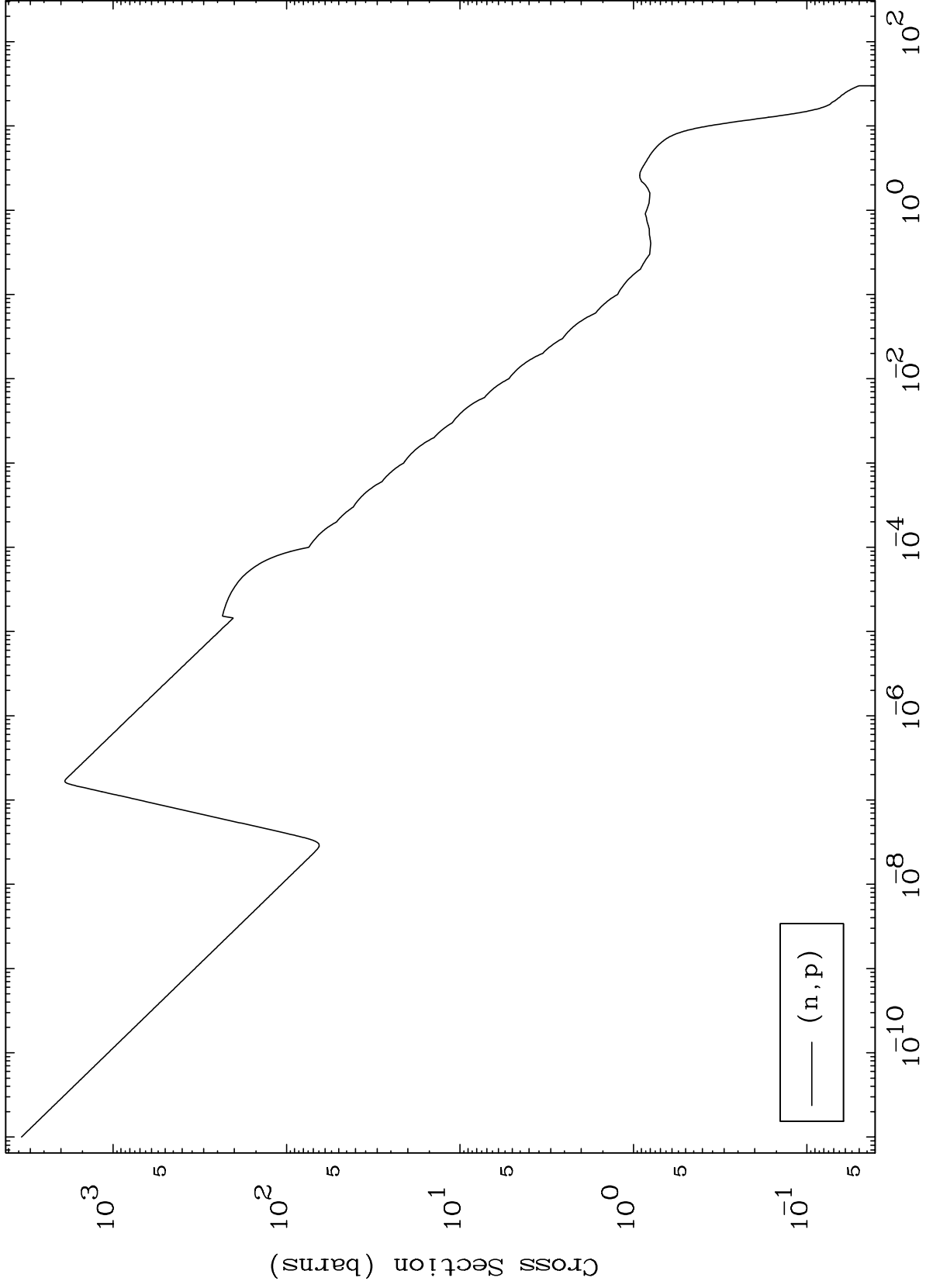
293 Kelvin Cross Sections



MAT 6295

(n,p) Levels  
293 Kelvin Cross Sections

63-Eu-141



10

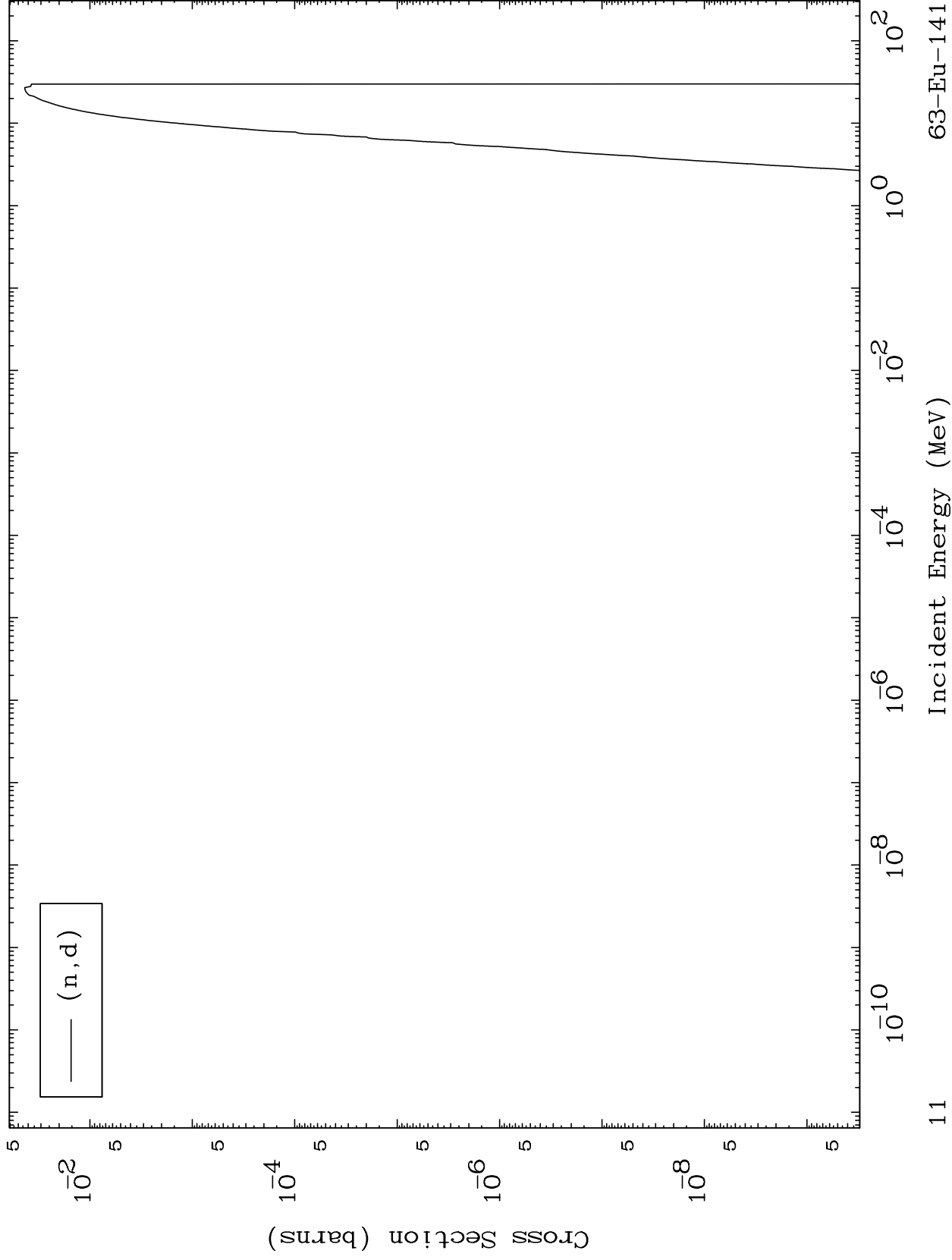
Incident Energy (MeV)

63-Eu-141

MAT 6295

(n,d) Levels  
293 Kelvin Cross Sections

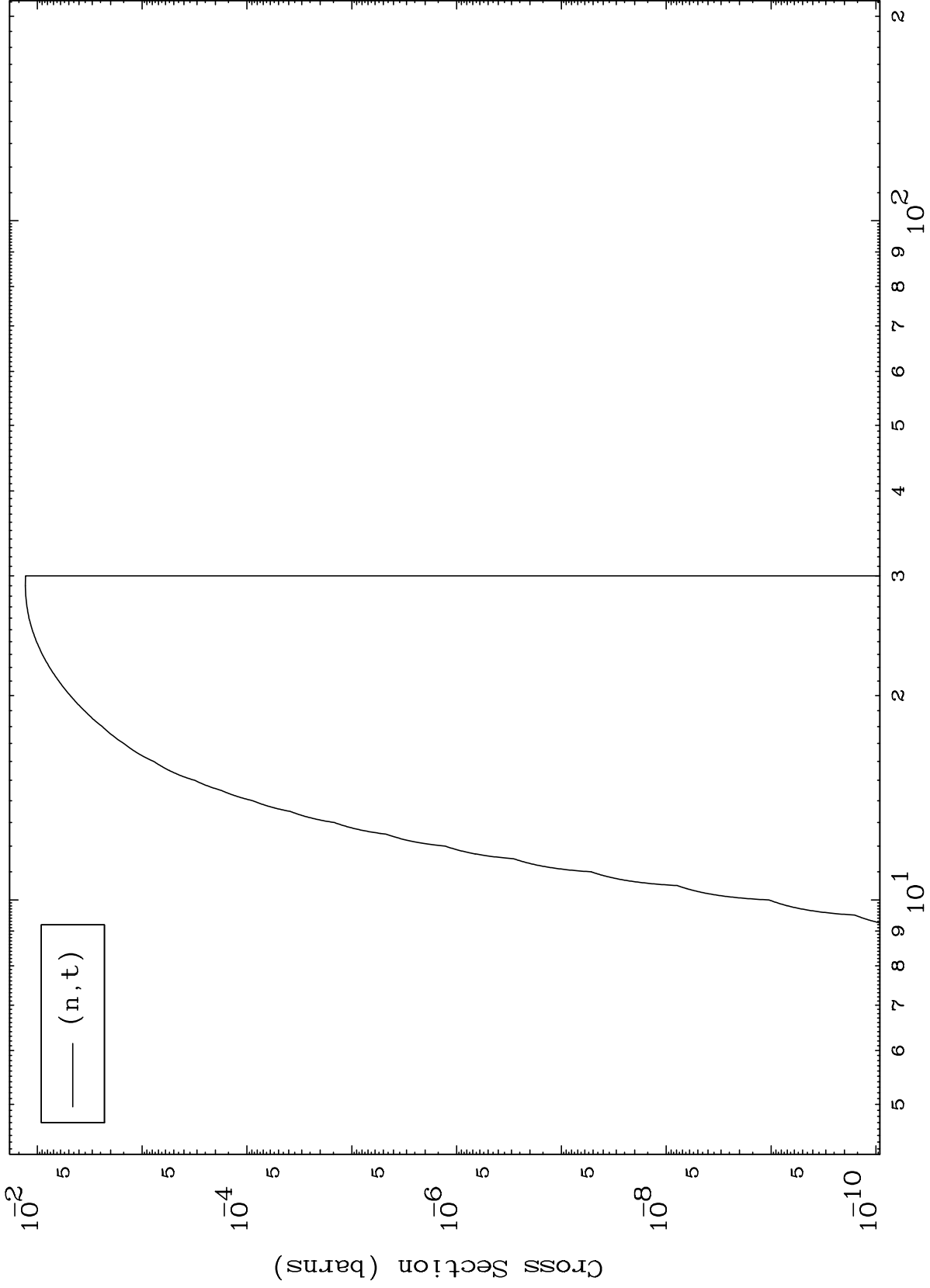
63-Eu-141



MAT 6295

(n,t) Levels  
293 Kelvin Cross Sections

63-Eu-141



12

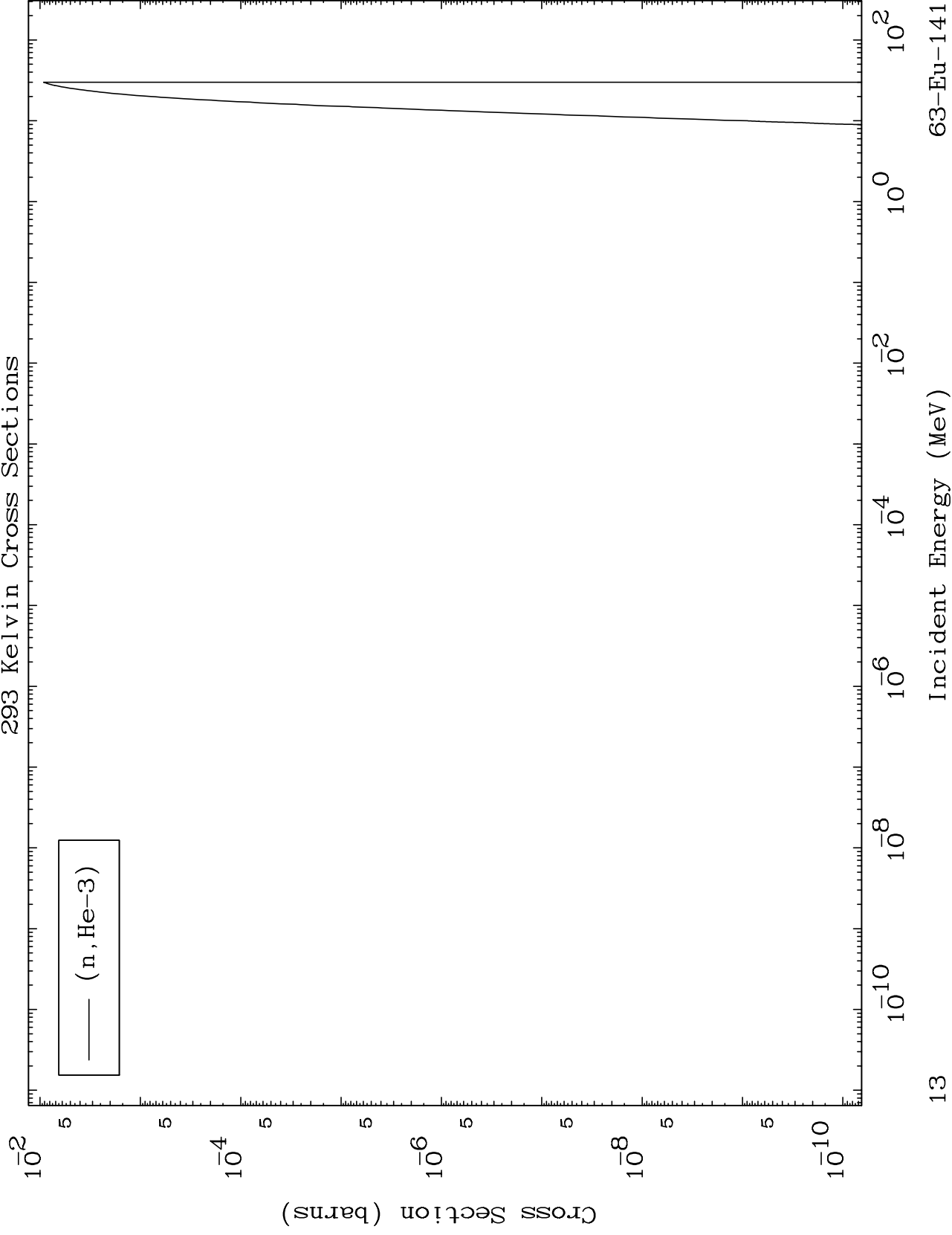
Incident Energy (MeV)

63-Eu-141

MAT 6295

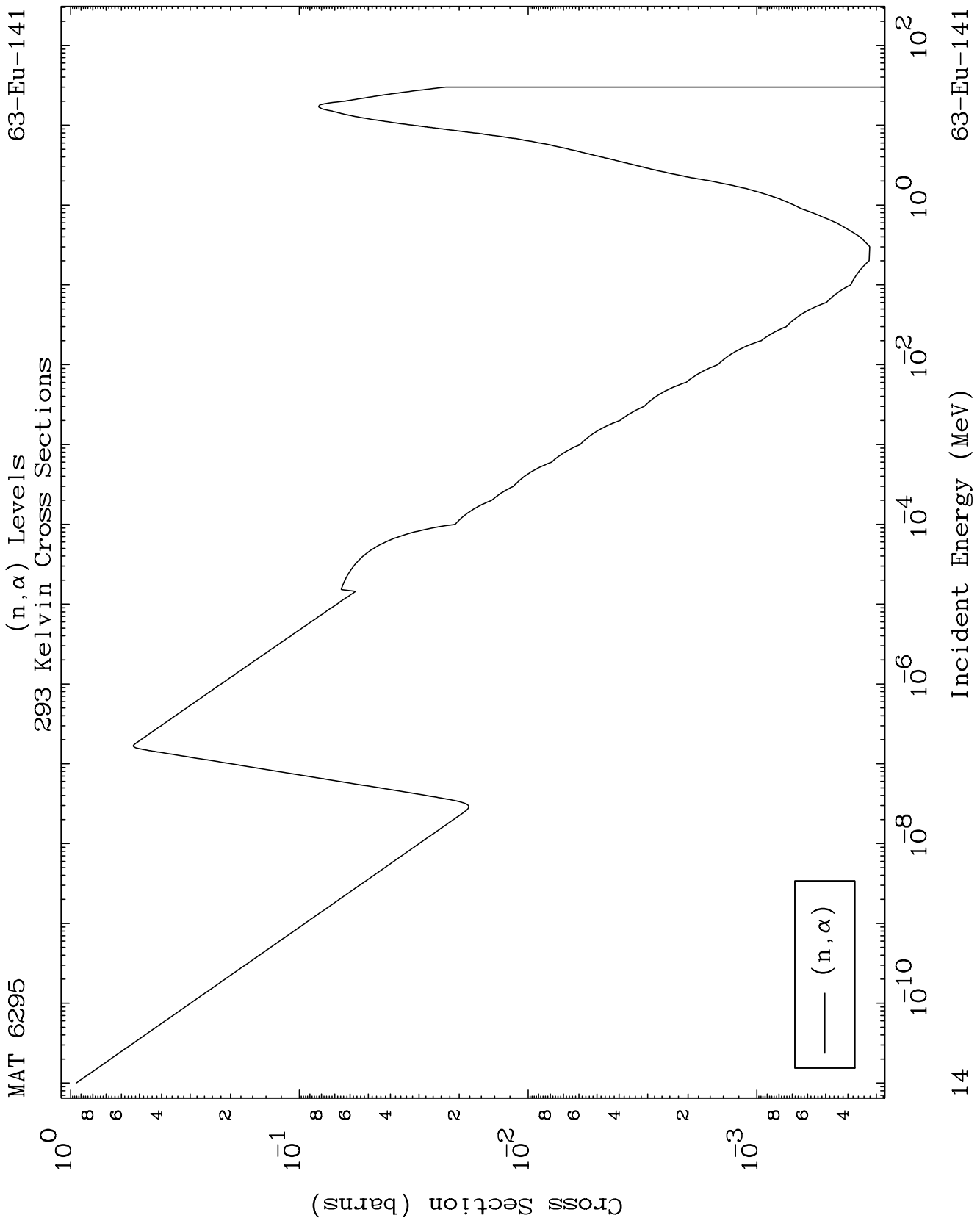
(n,He3) Levels  
293 Kelvin Cross Sections

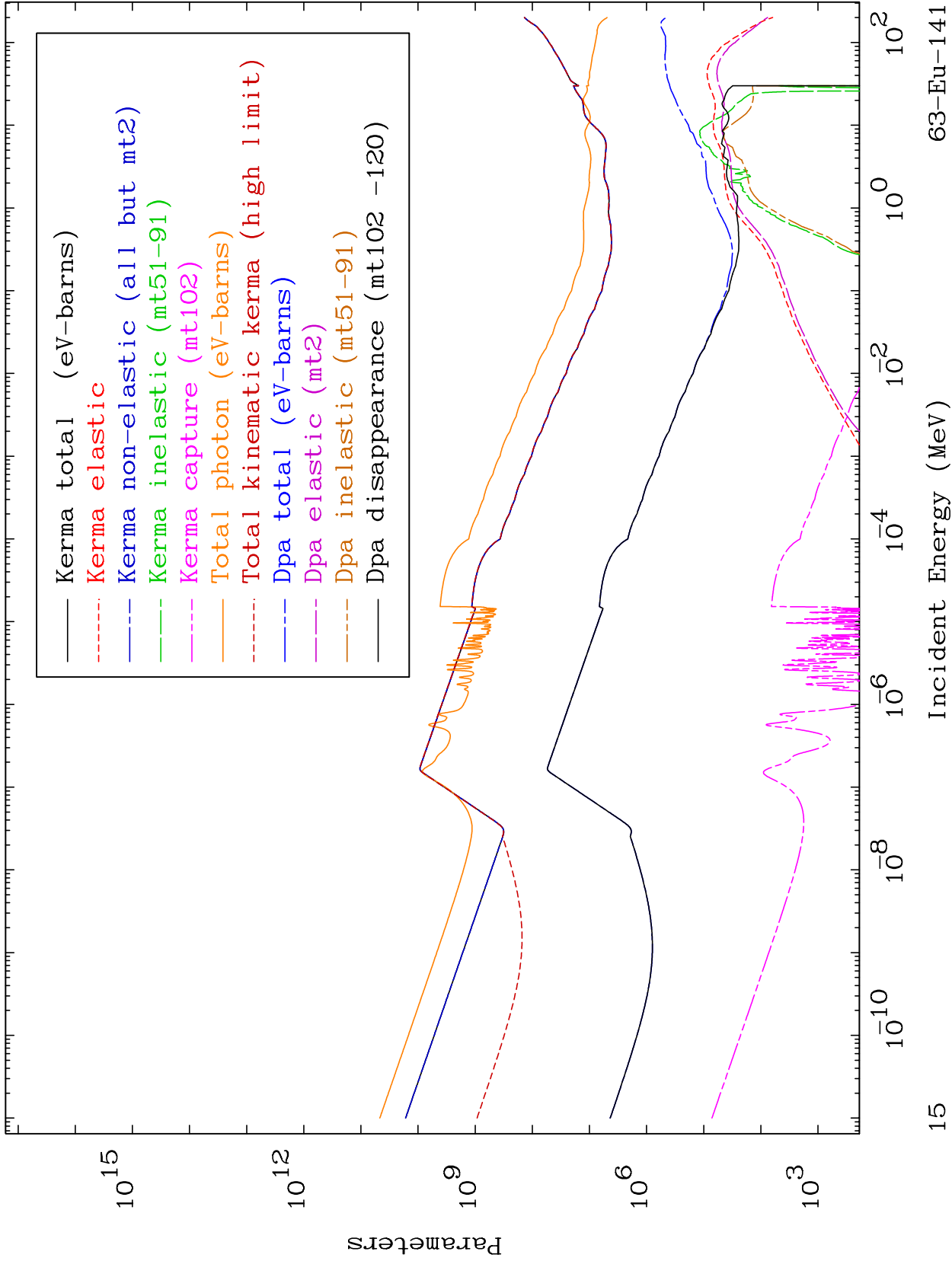
63-Eu-141



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63-Eu-141



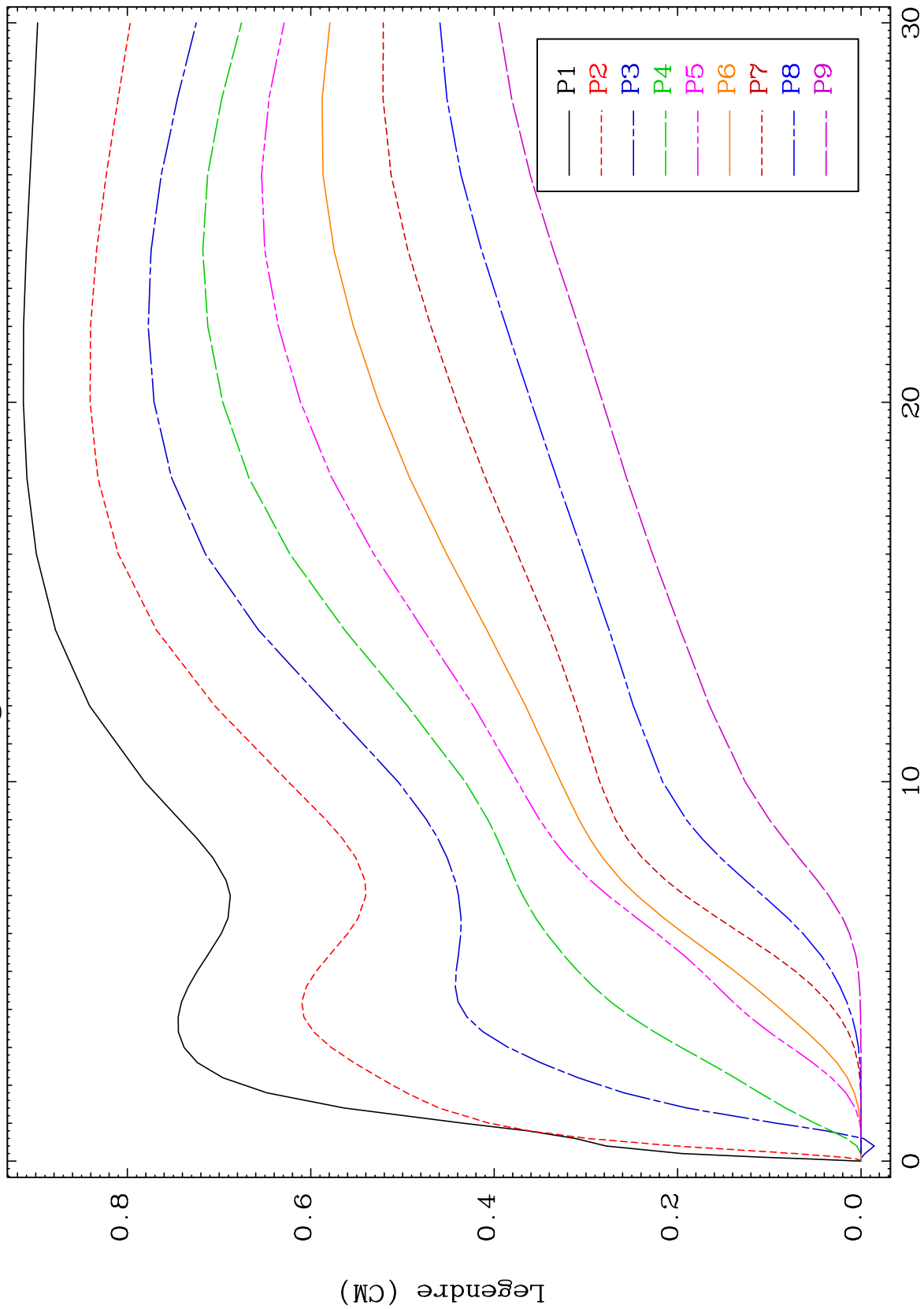




MAT 6295

Elastic Legendre Coefficients

63-Eu-141



16

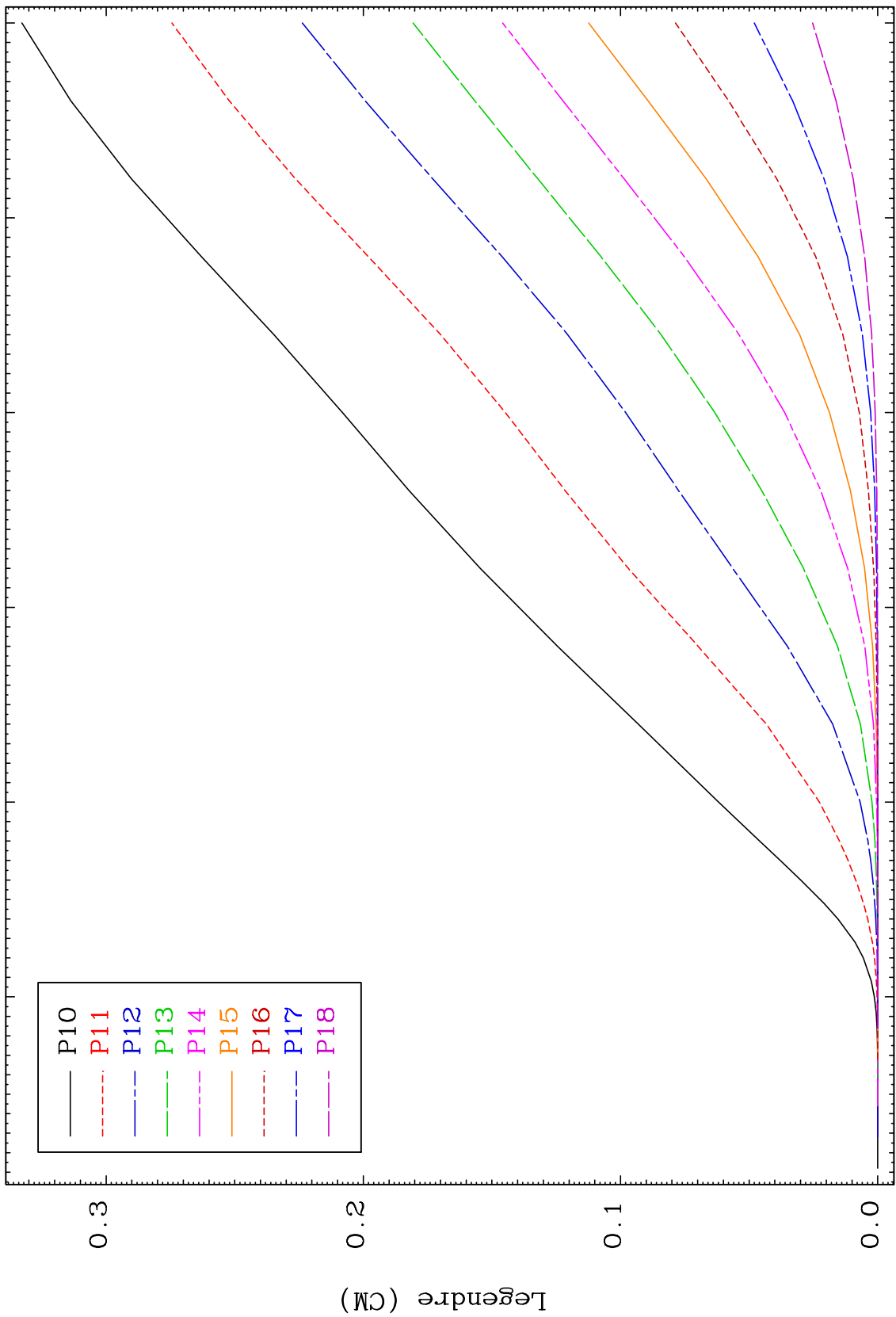
Incident Energy (MeV)

63-Eu-141

MAT 6295

Elastic Legendre Coefficients

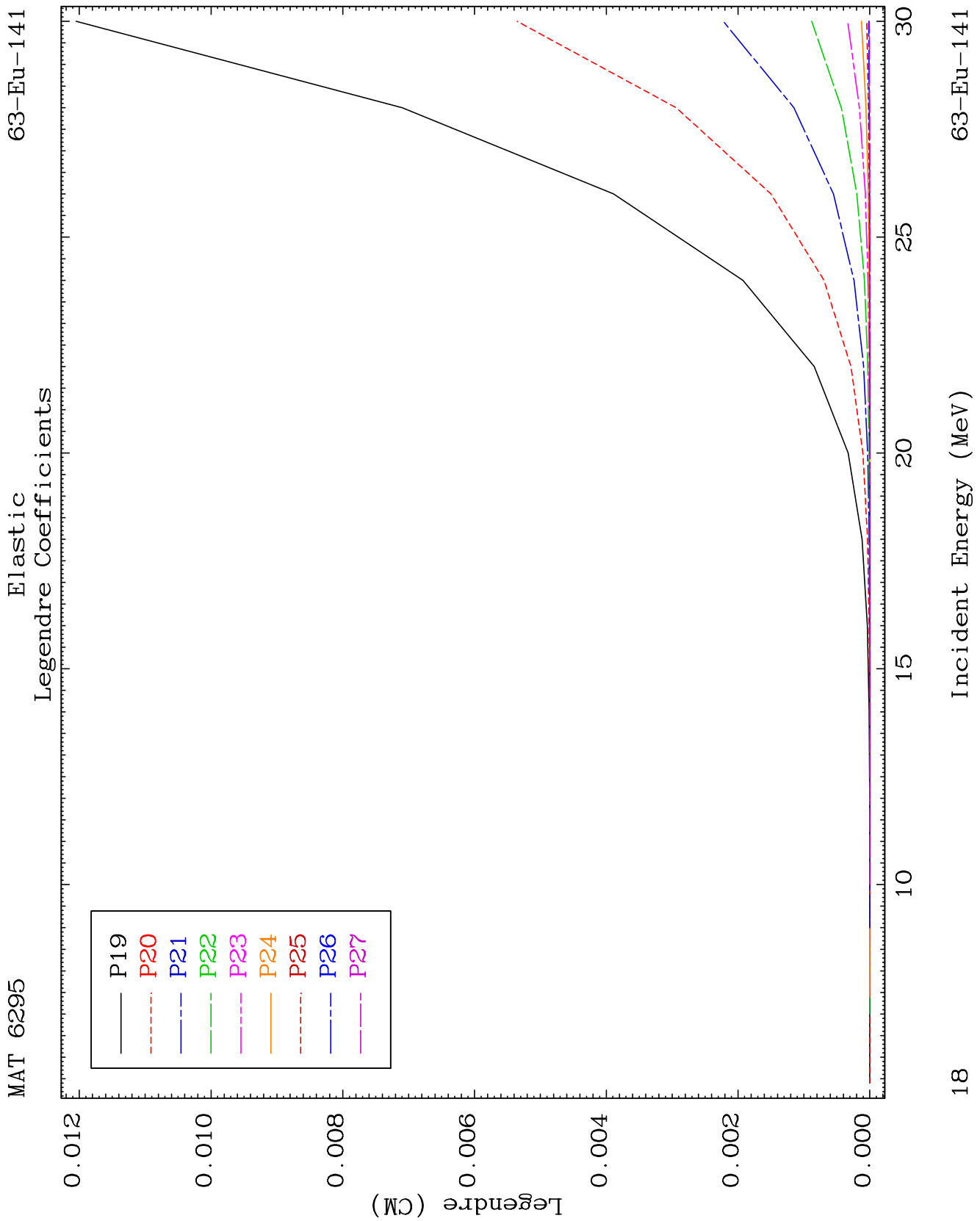
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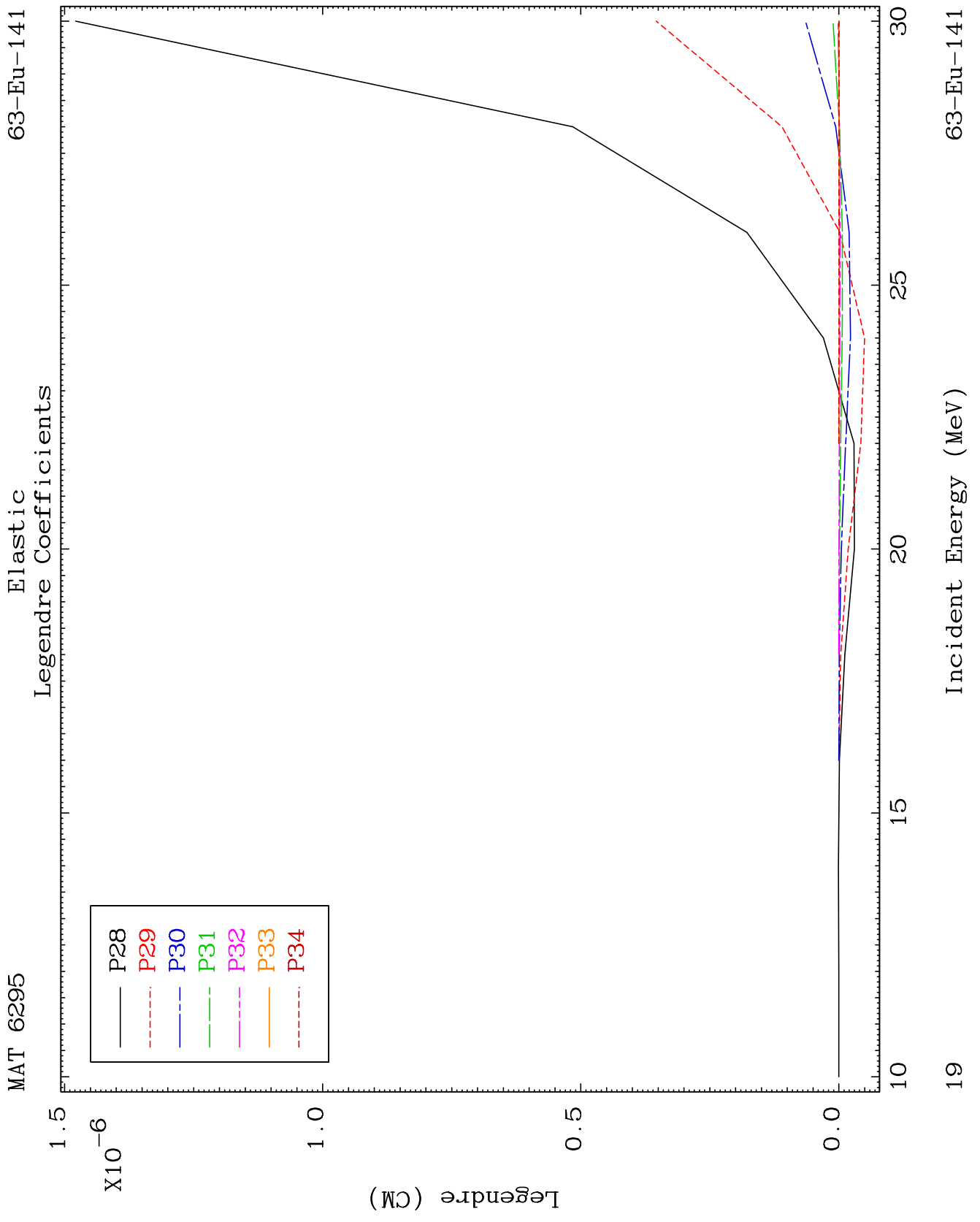


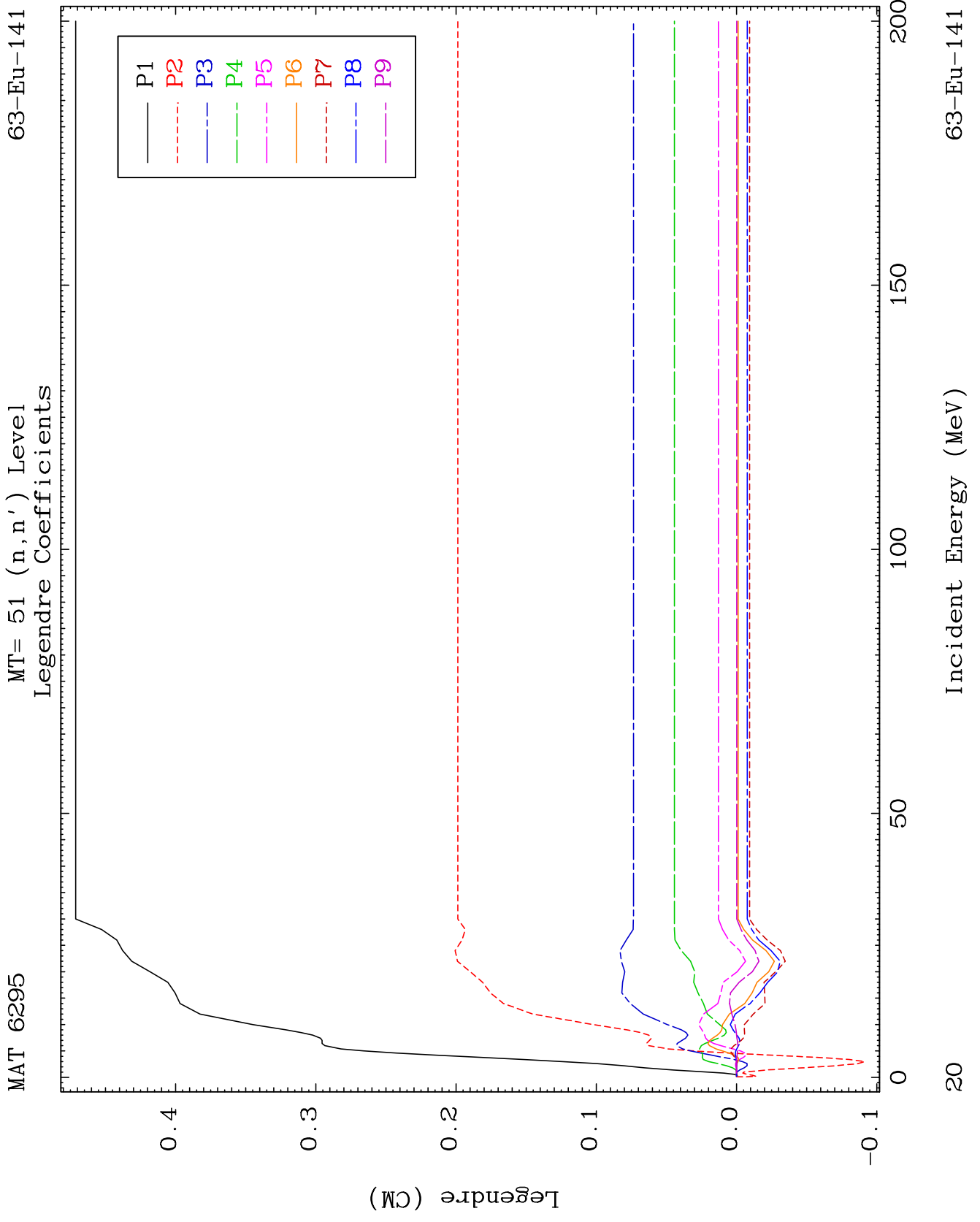
17

63-Eu-141

Incident Energy (MeV)



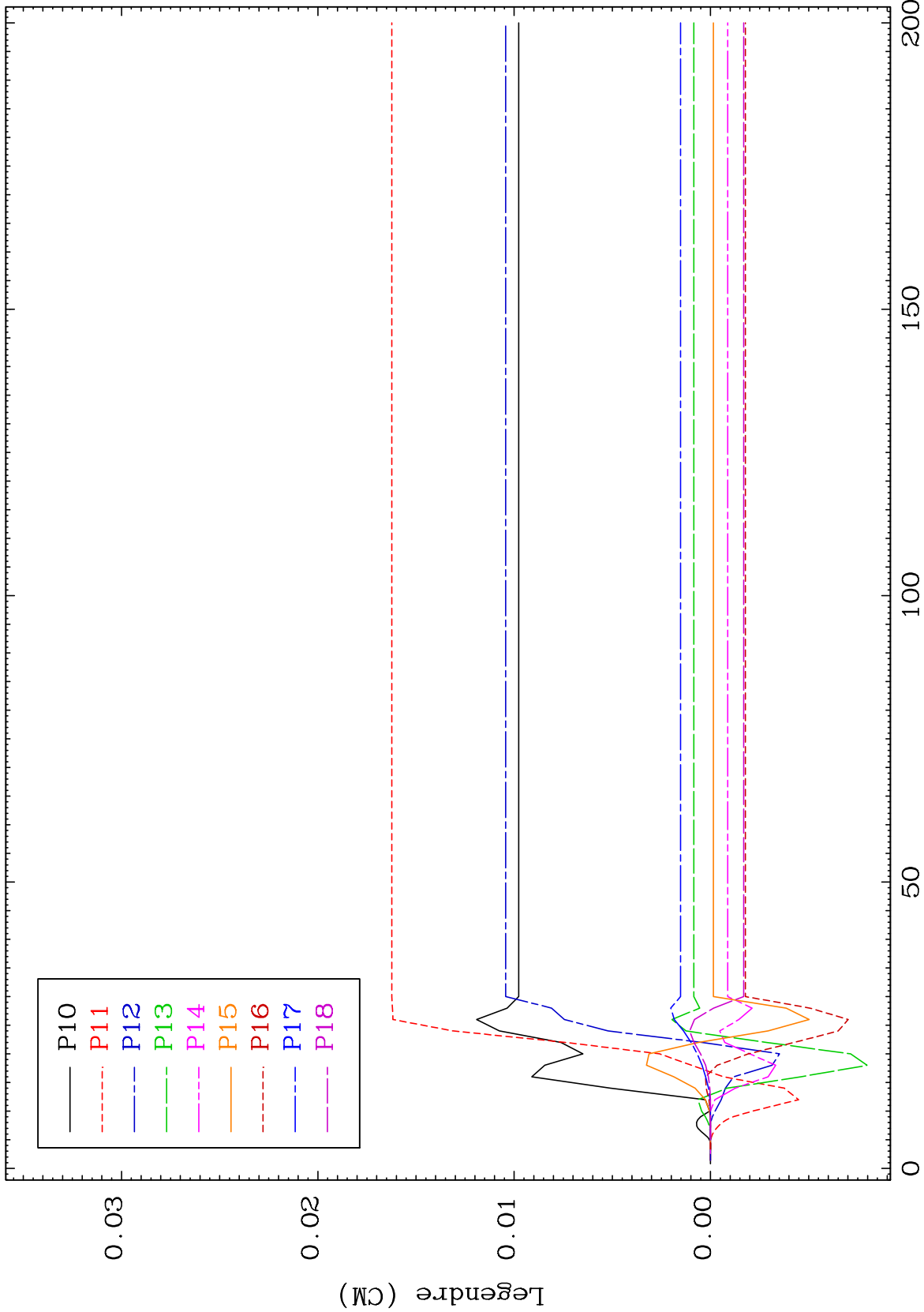




MAT 6295

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

63-Eu-141



21

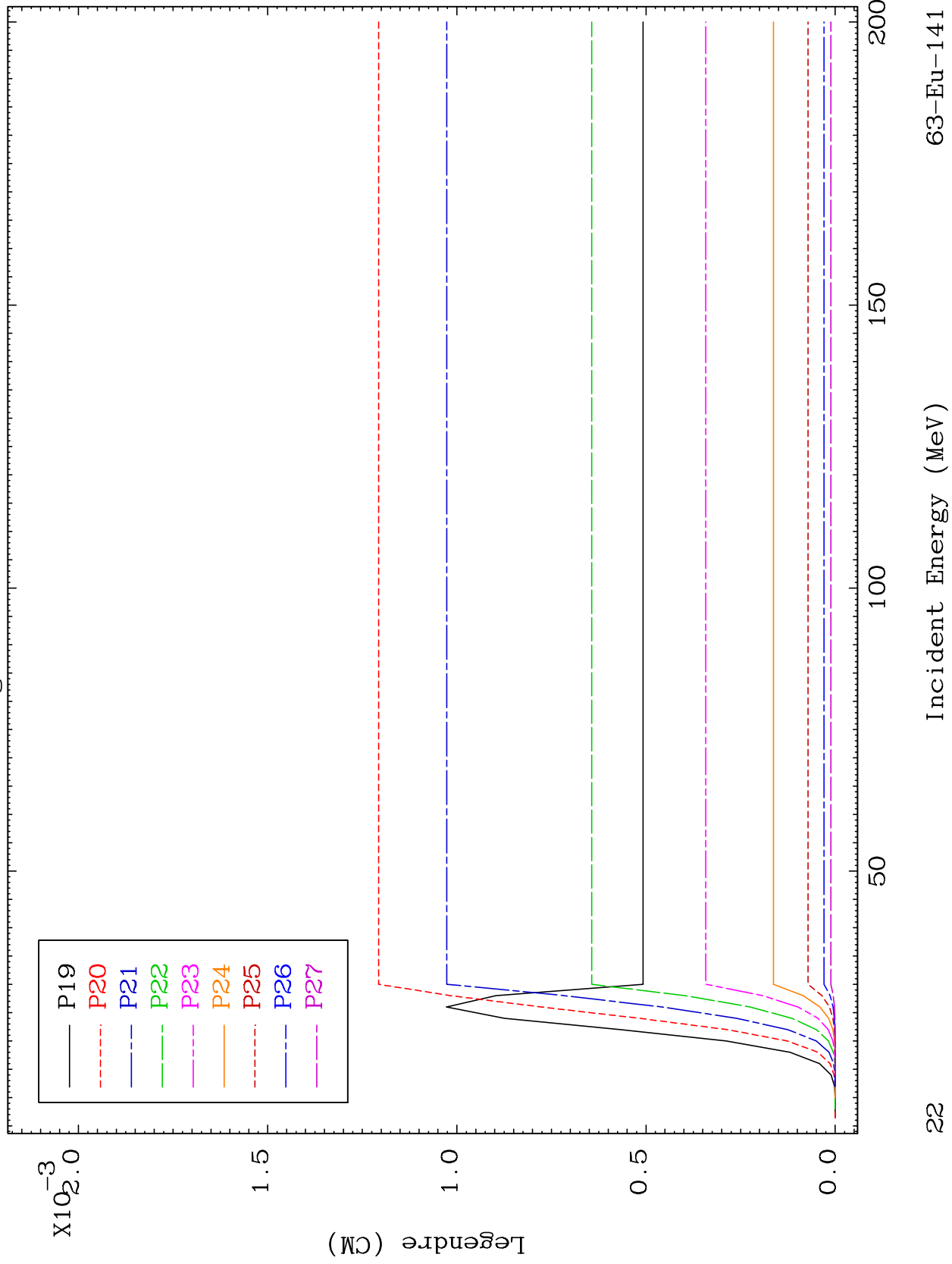
Incident Energy (MeV)

63-Eu-141

MAT 6295

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

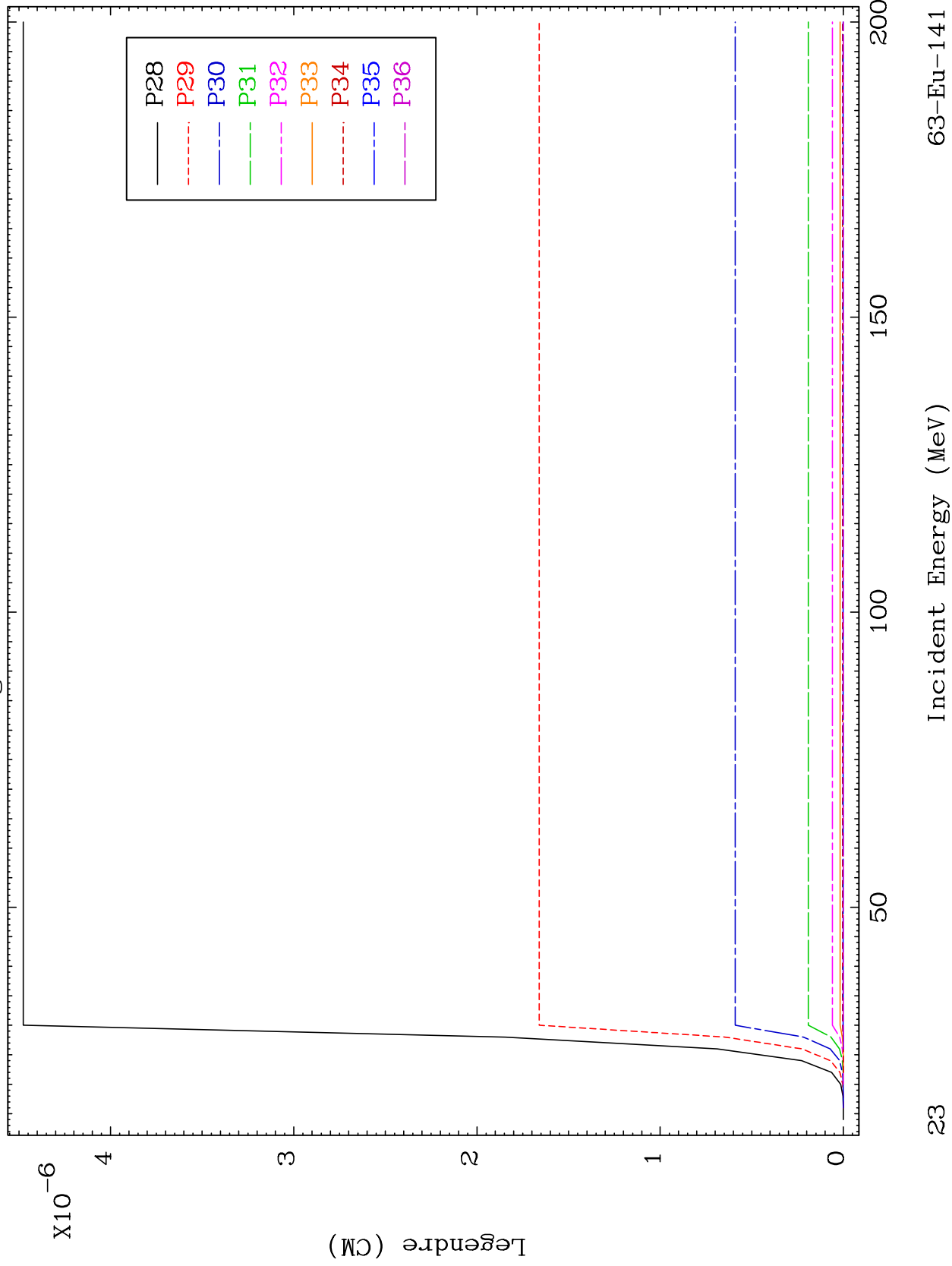
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MAT 6295

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

63-Eu-141



23

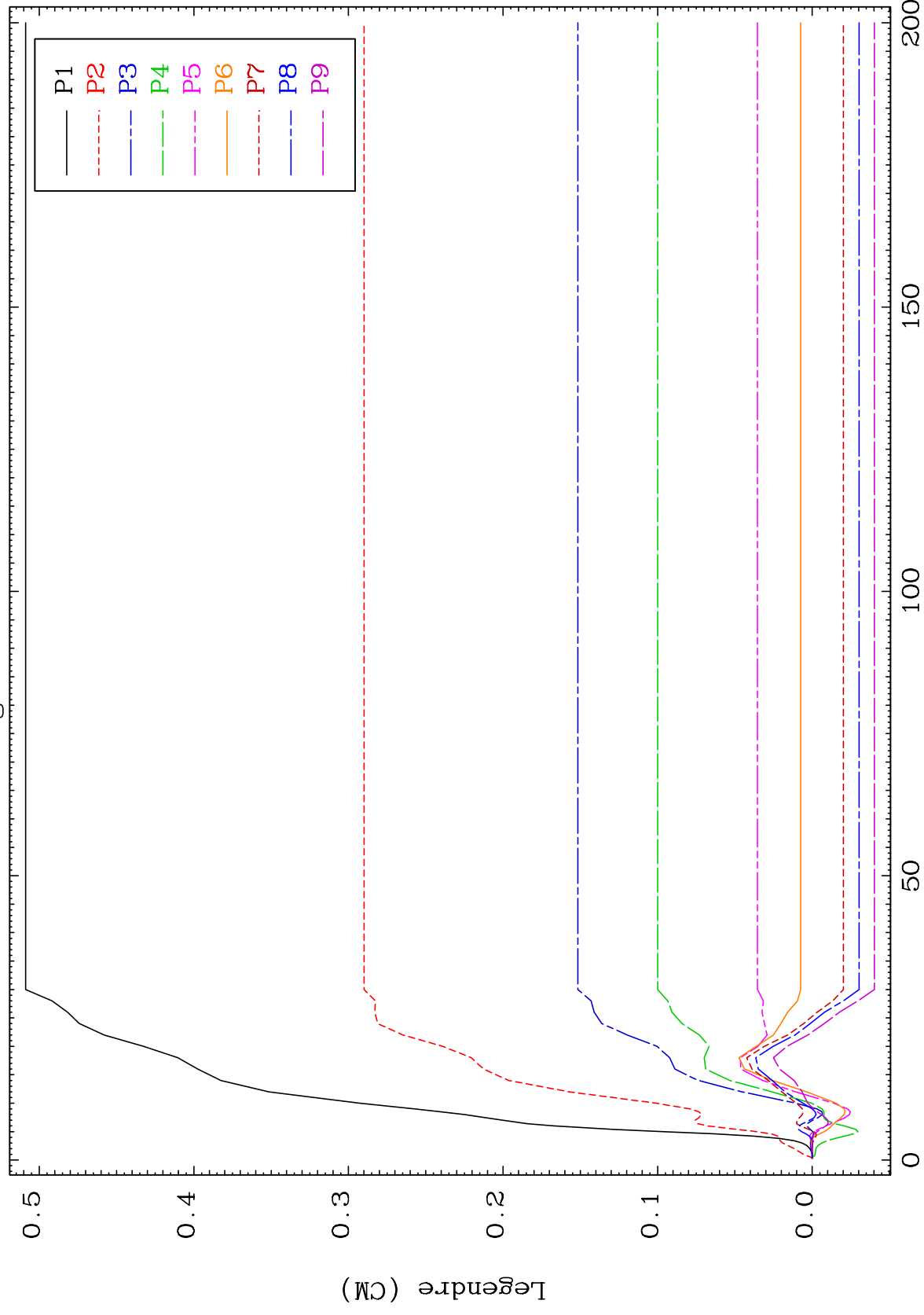
63-Eu-141



MAT 6295

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

63-Eu-141



63-Eu-141

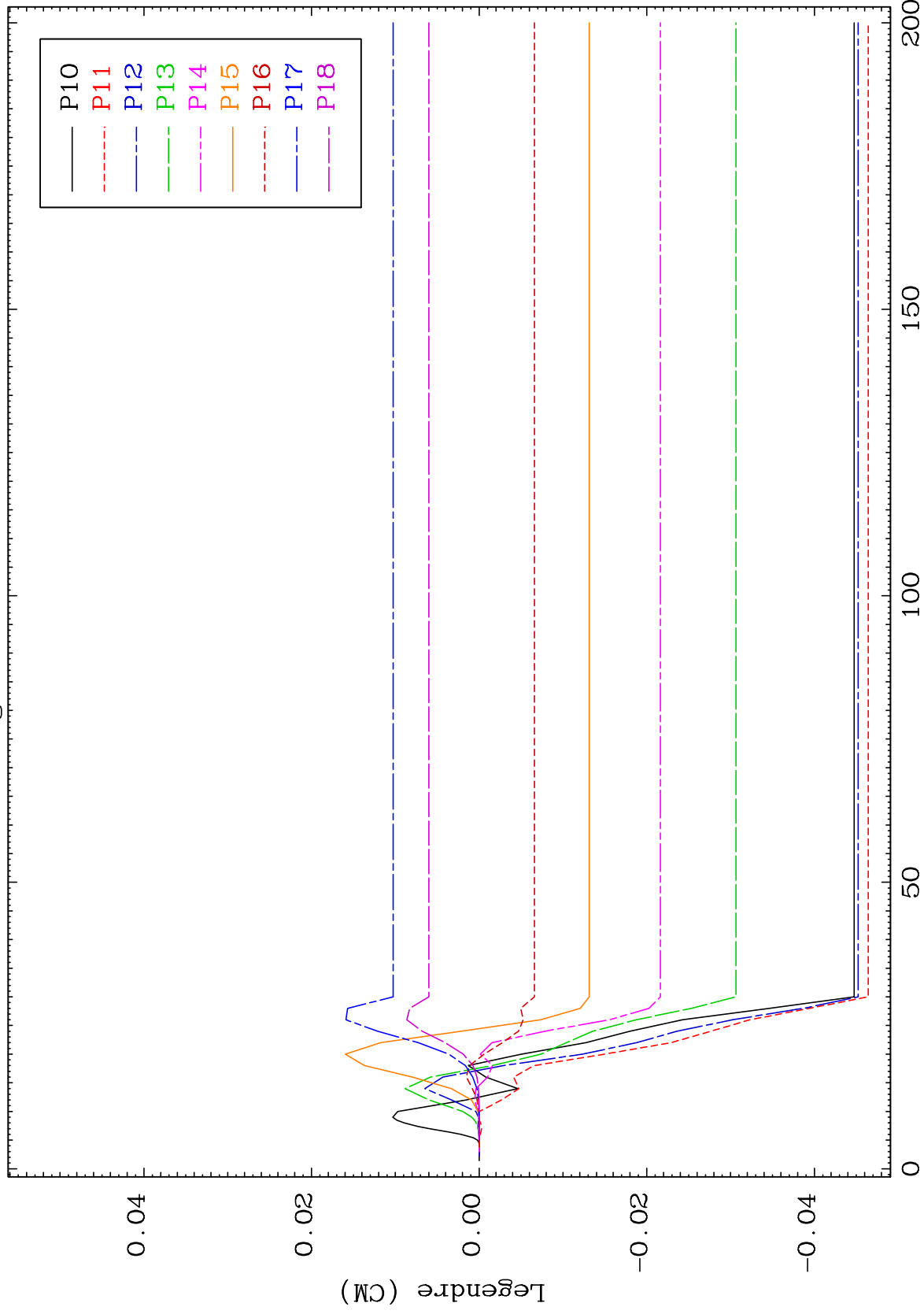
Incident Energy (MeV)

24

MAT 6295

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

63-Eu-141



25

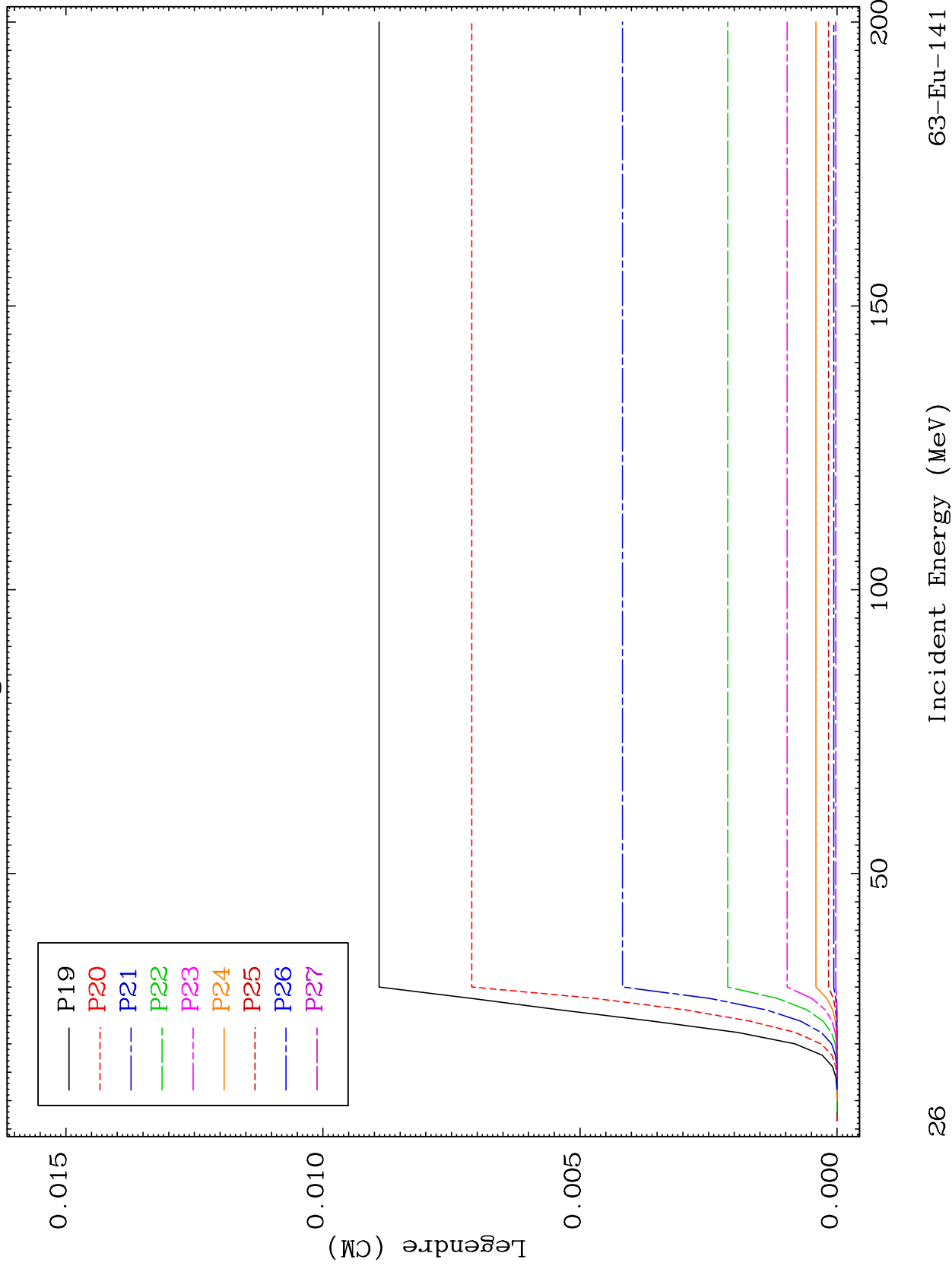
Incident Energy (MeV)

63-Eu-141

MAT 6295

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

63-Eu-141



26

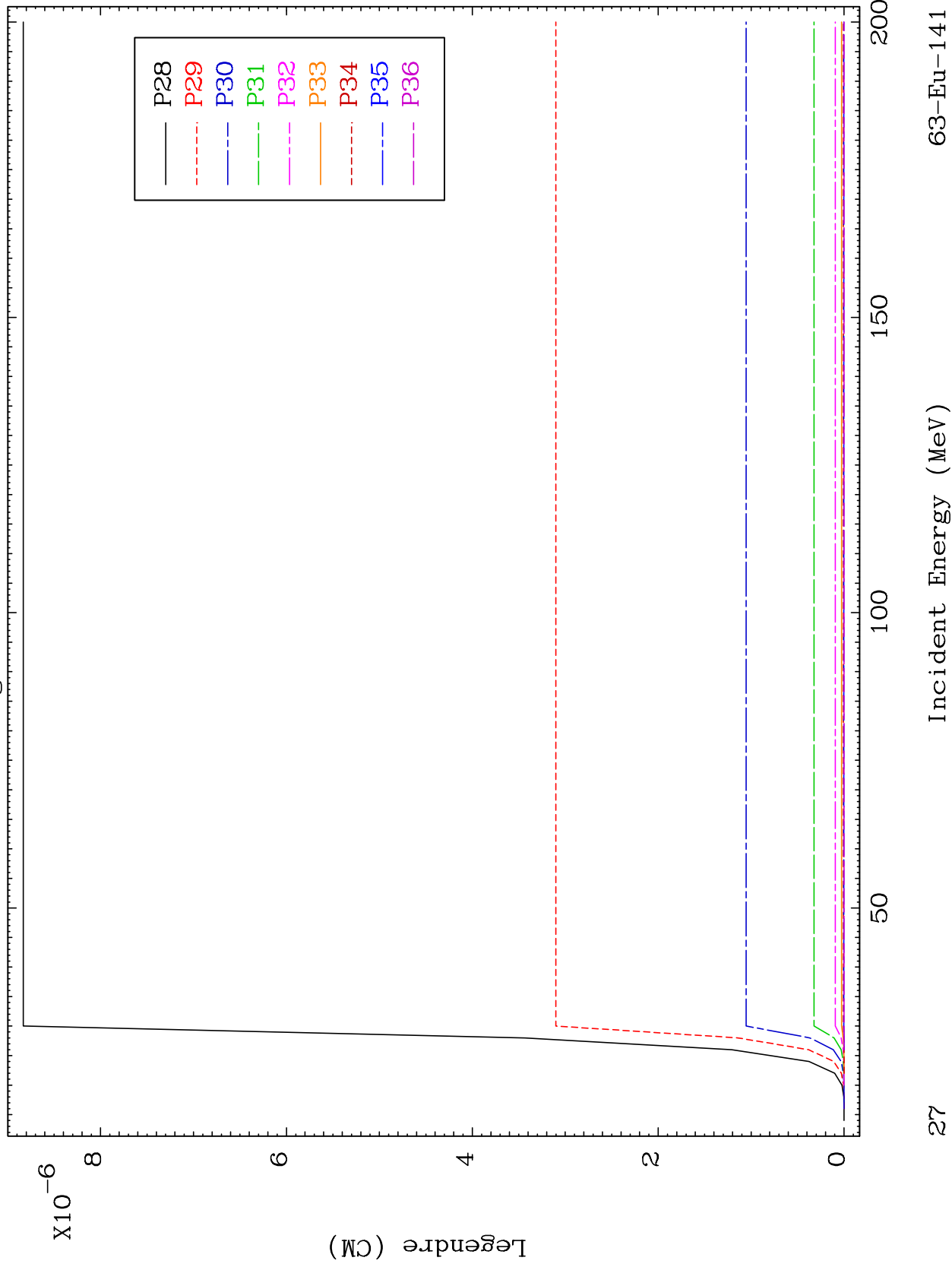
Incident Energy (MeV)

63-Eu-141

MAT 6295

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

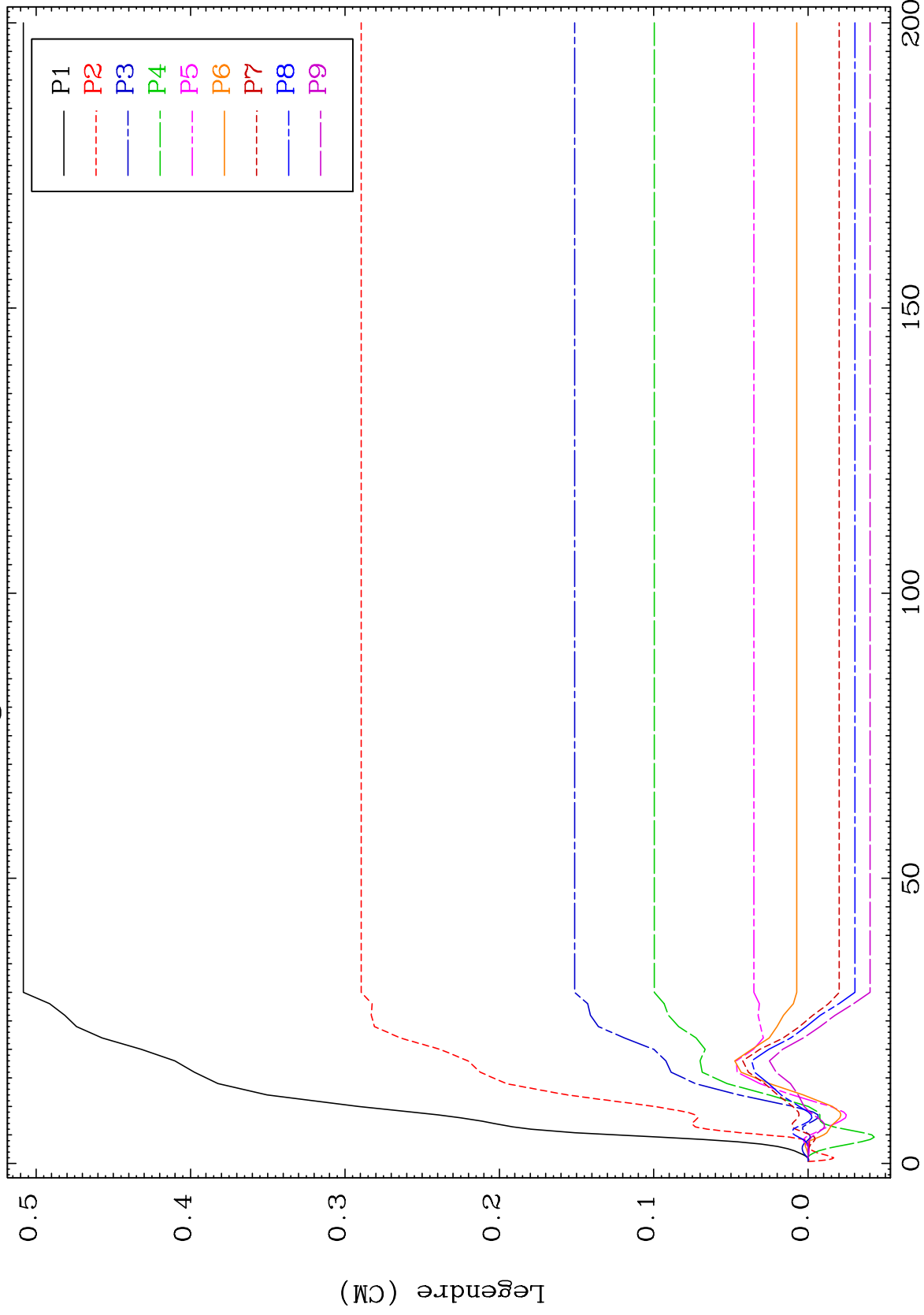
63-Eu-141



MAT 6295

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

63-Eu-141



63-Eu-141

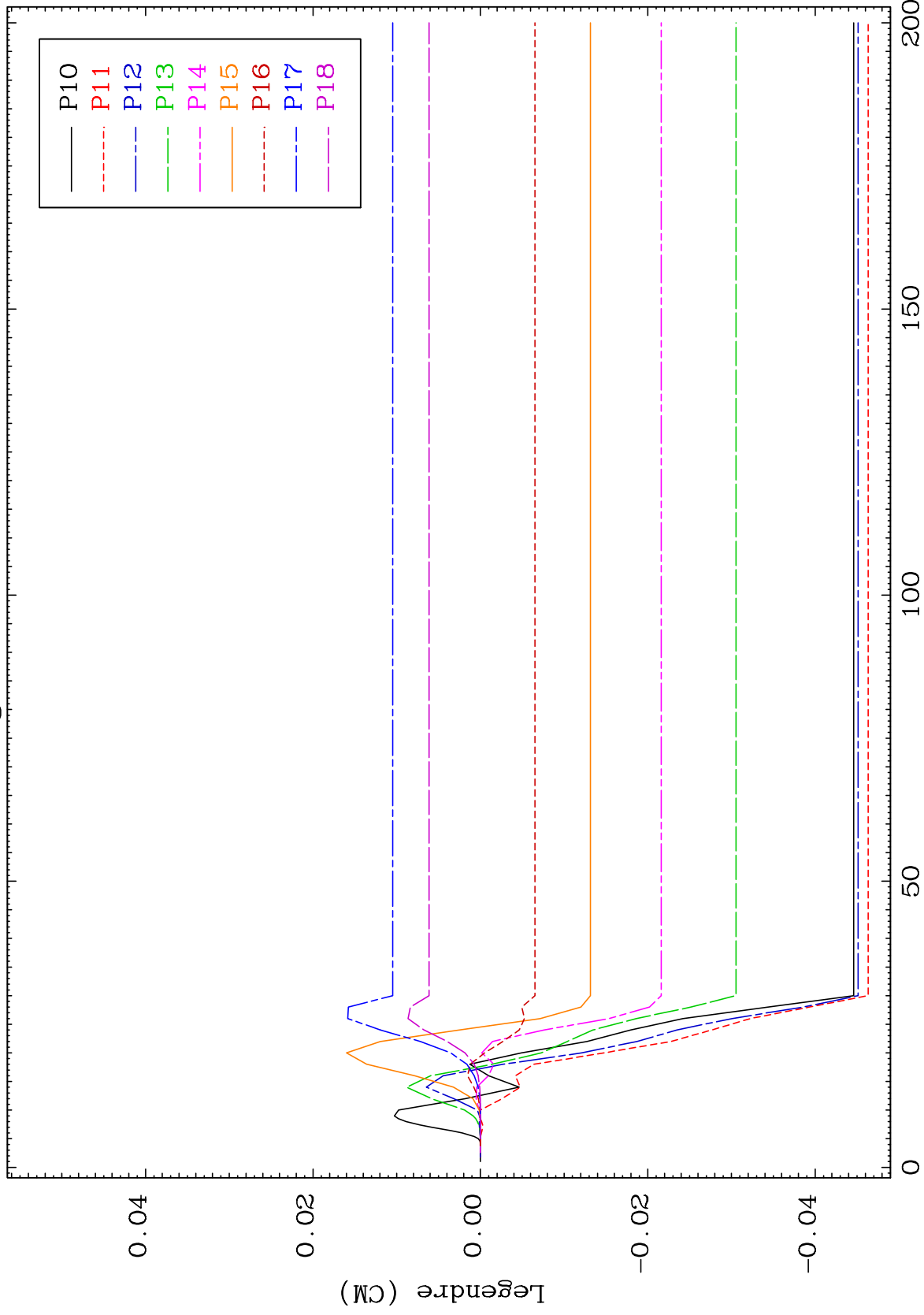
Incident Energy (MeV)

28

MAT 6295

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

63-Eu-141



29

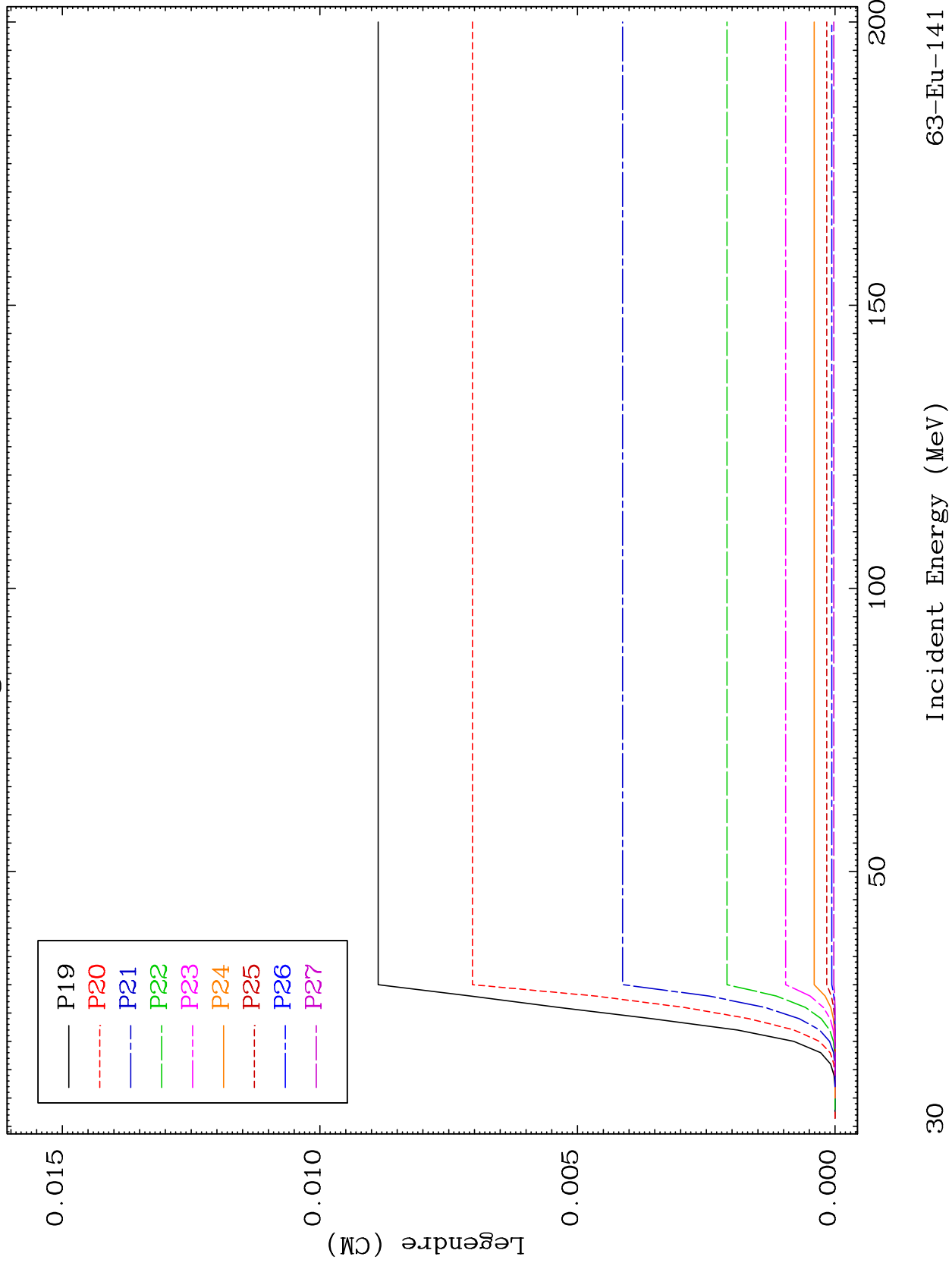
Incident Energy (MeV)

63-Eu-141

MAT 6295

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

63-Eu-141



63-Eu-141

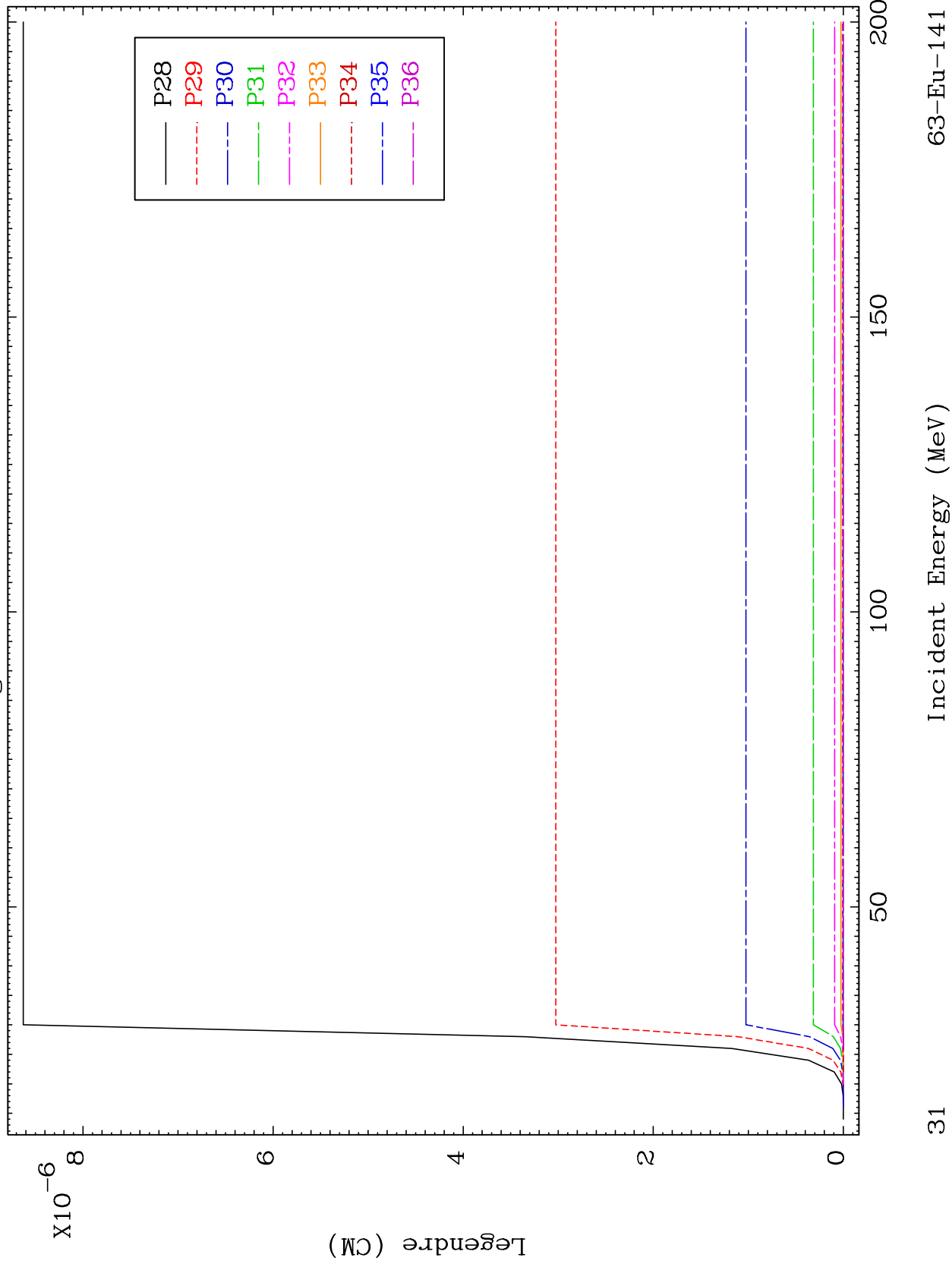
Incident Energy (MeV)

30

MAT 6295

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

63-Eu-141



31

Incident Energy (MeV)

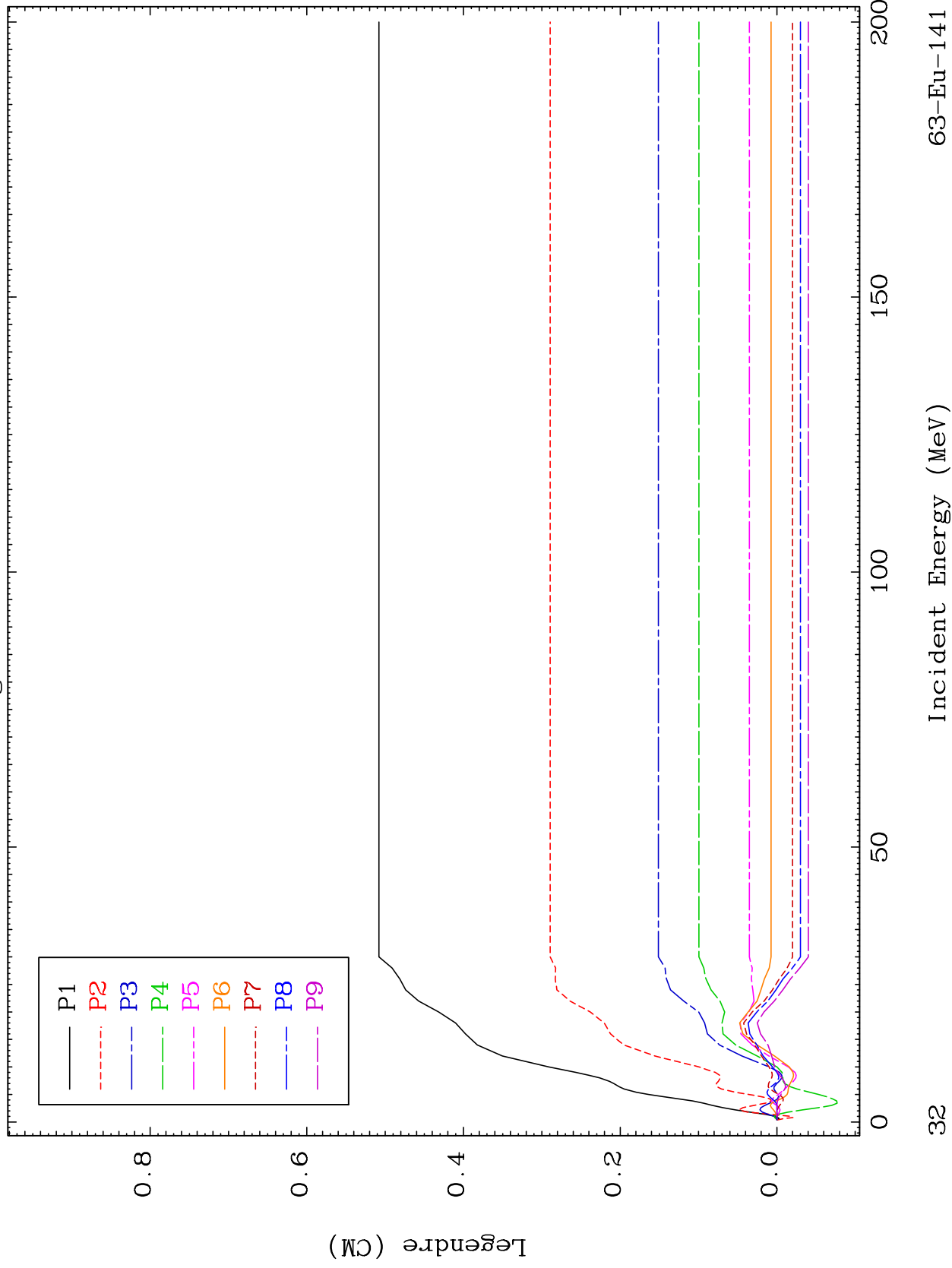
63-Eu-141



MAT 6295

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

63-Eu-141



63-Eu-141

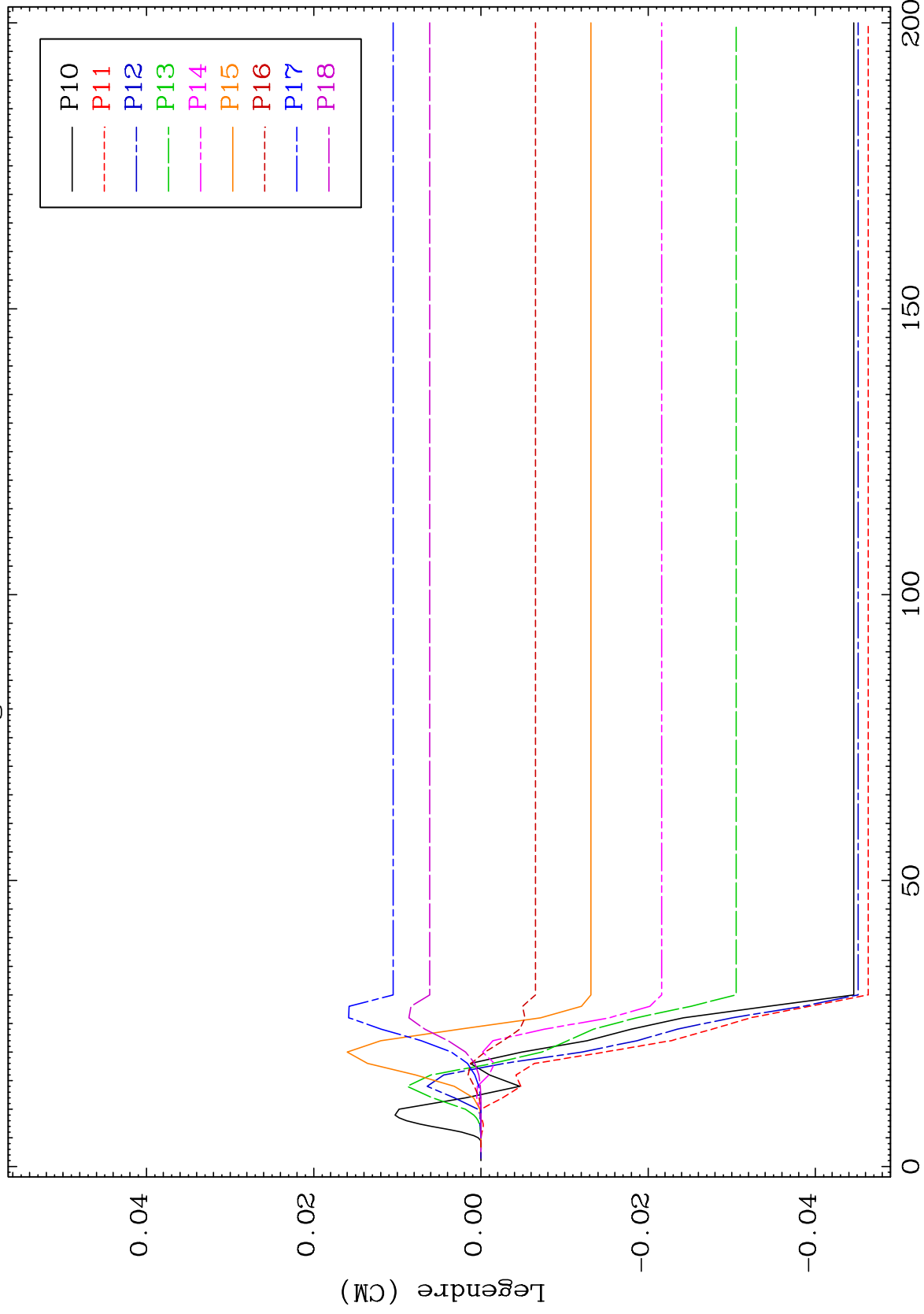
Incident Energy (MeV)

32

MAT 6295

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

63-Eu-141



33

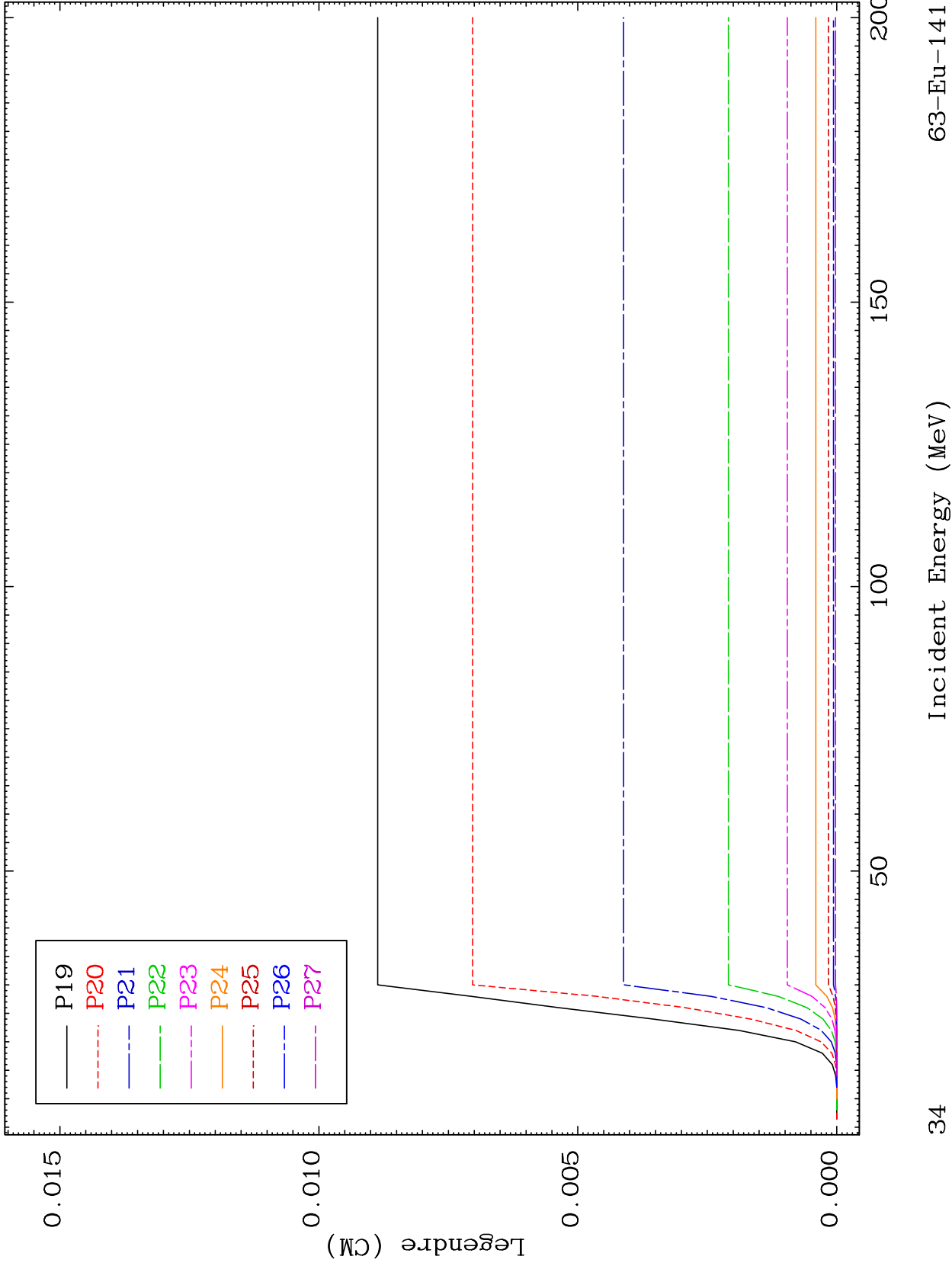
Incident Energy (MeV)

63-Eu-141

MAT 6295

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

63-Eu-141



34

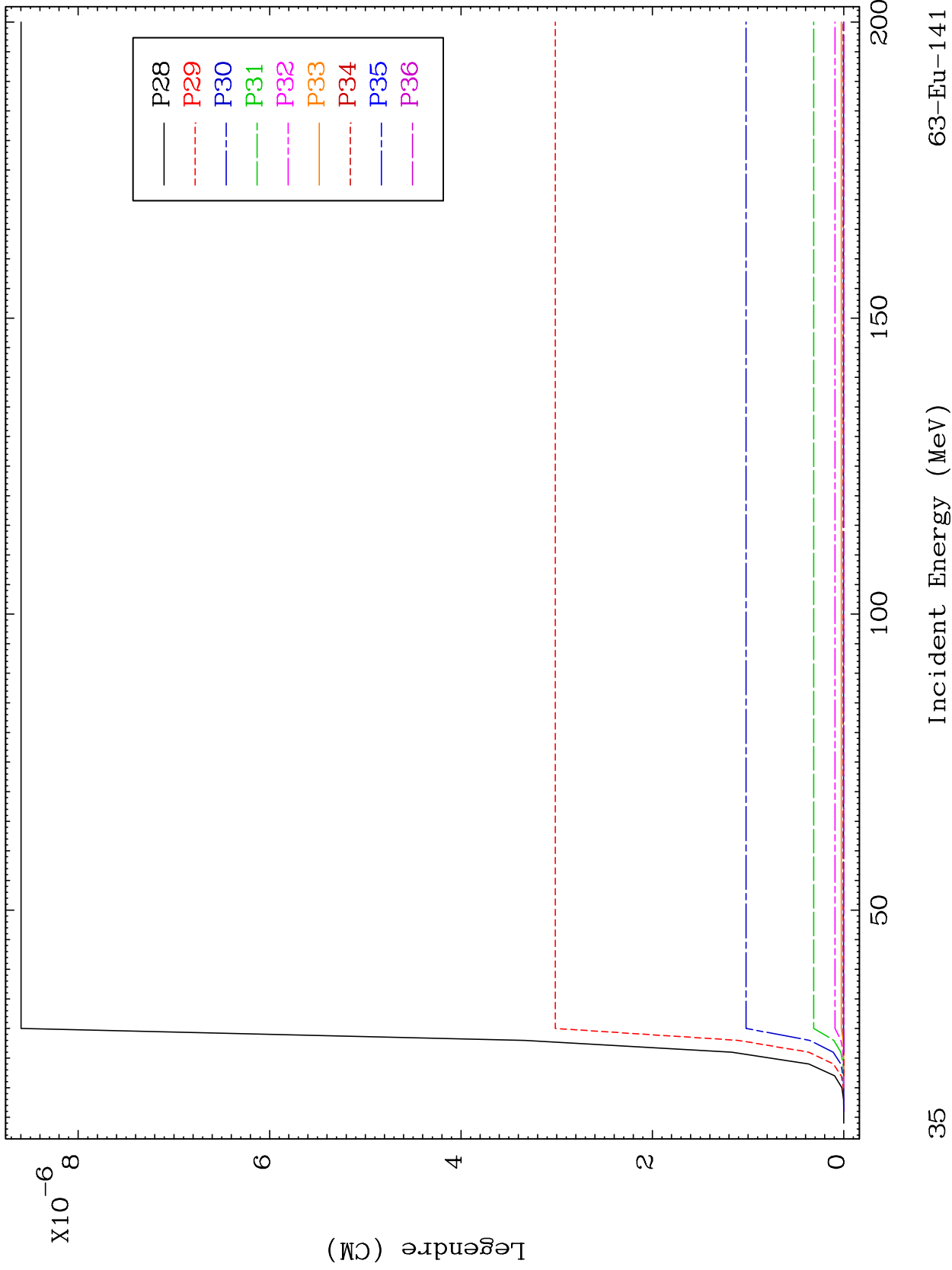
Incident Energy (MeV)

63-Eu-141

MAT 6295

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

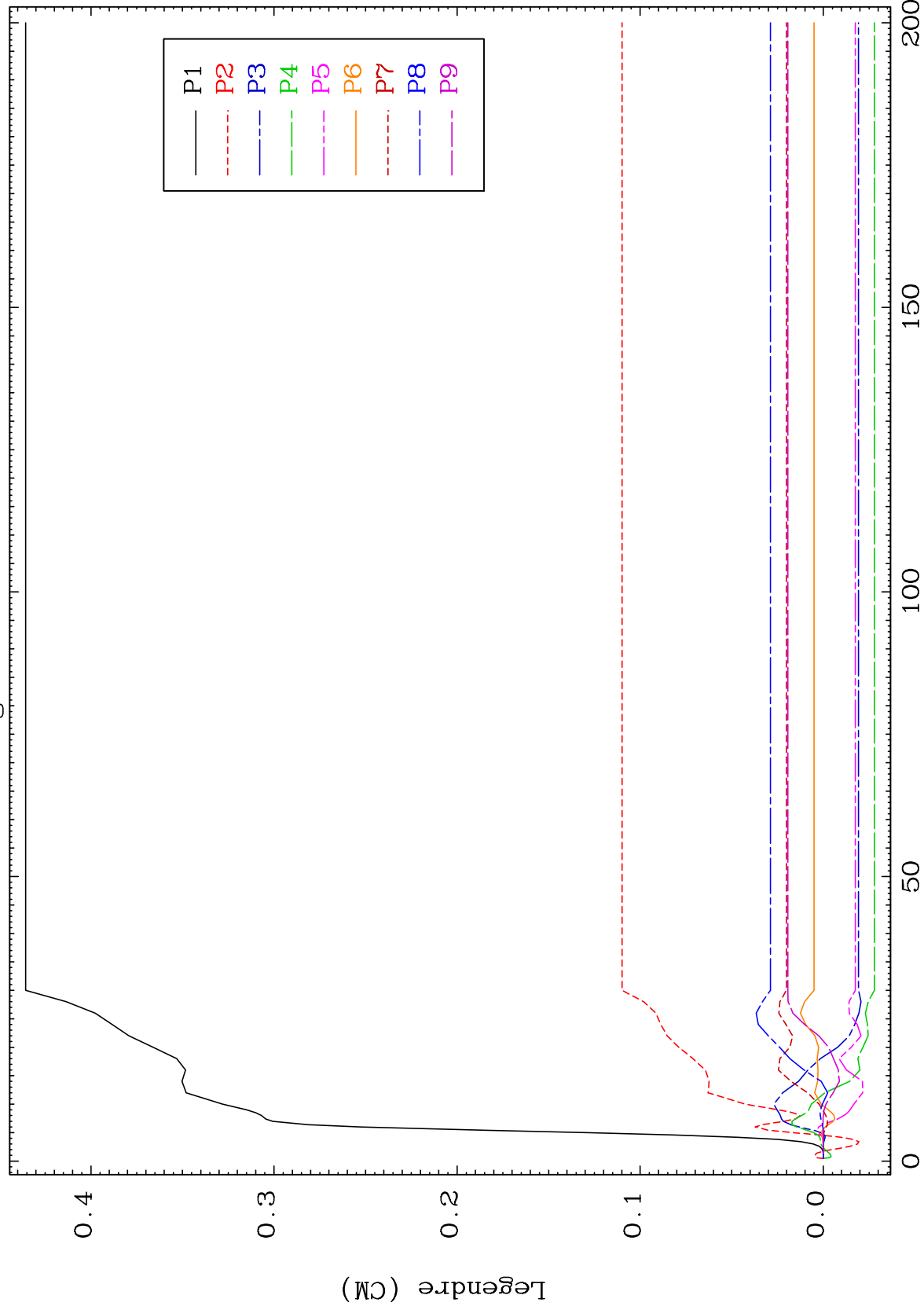
63-Eu-141



MAT 6295

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

63-Eu-141



63-Eu-141

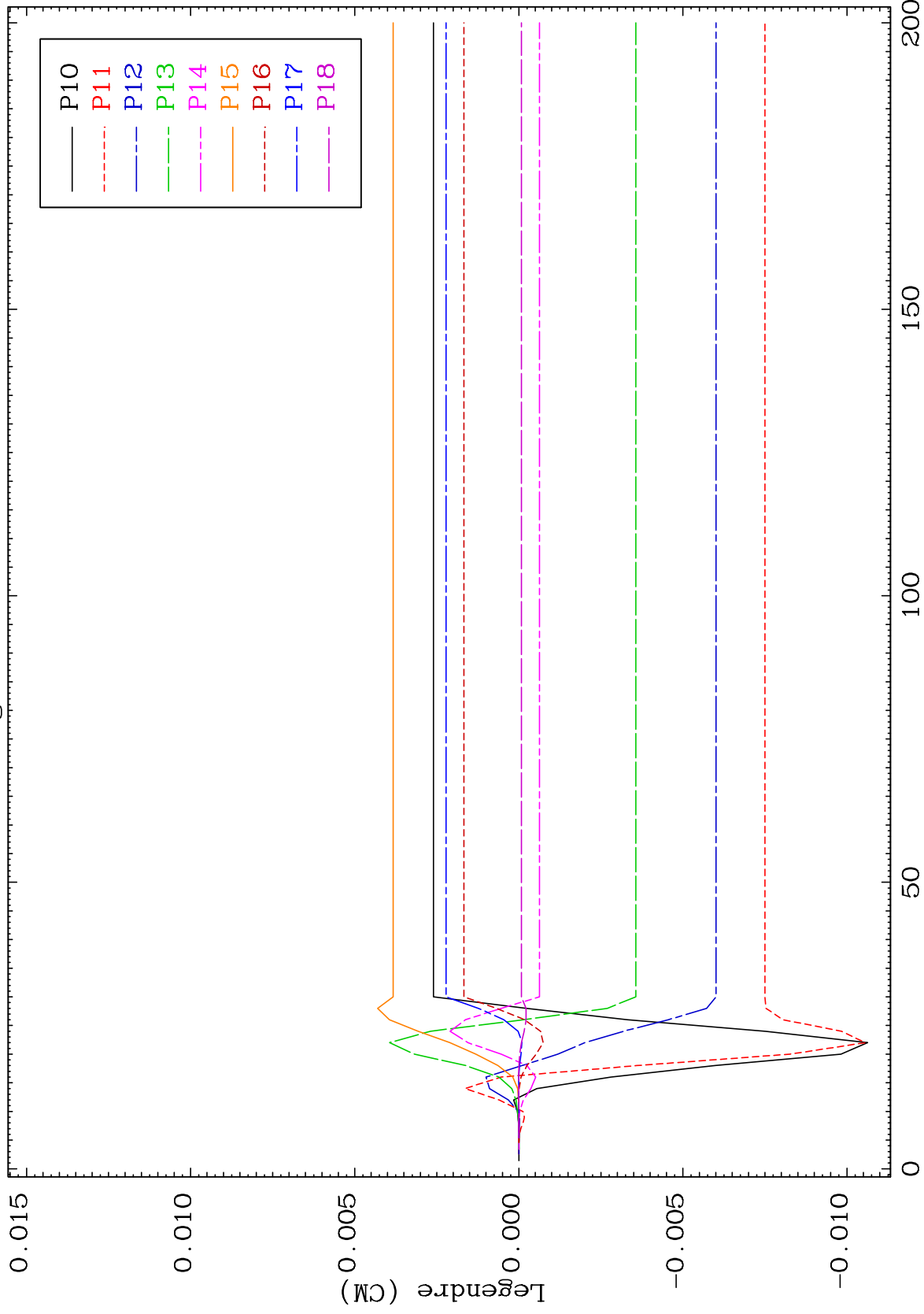
Incident Energy (MeV)

36

MAT 6295

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

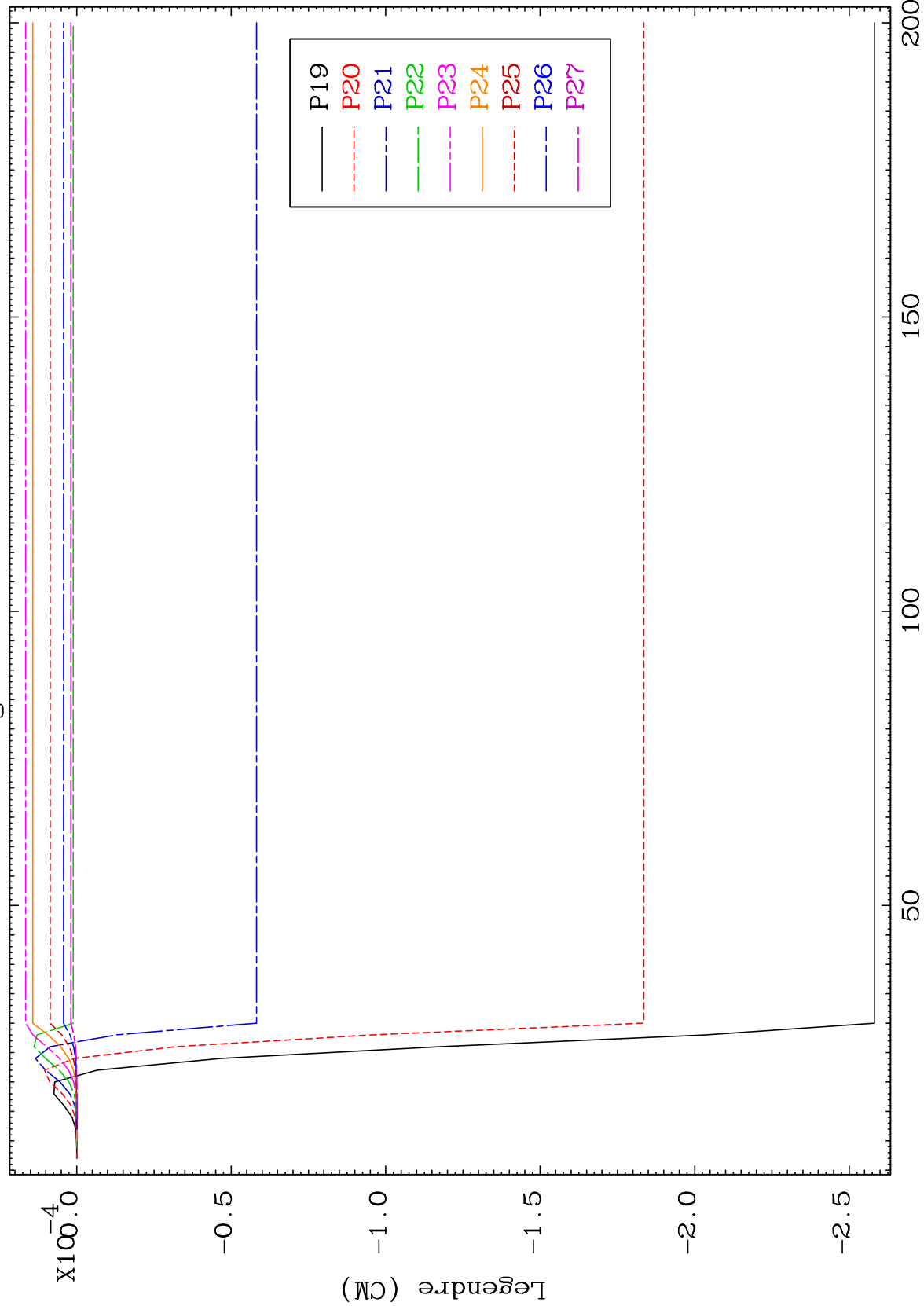
63-Eu-141



37

Incident Energy (MeV)

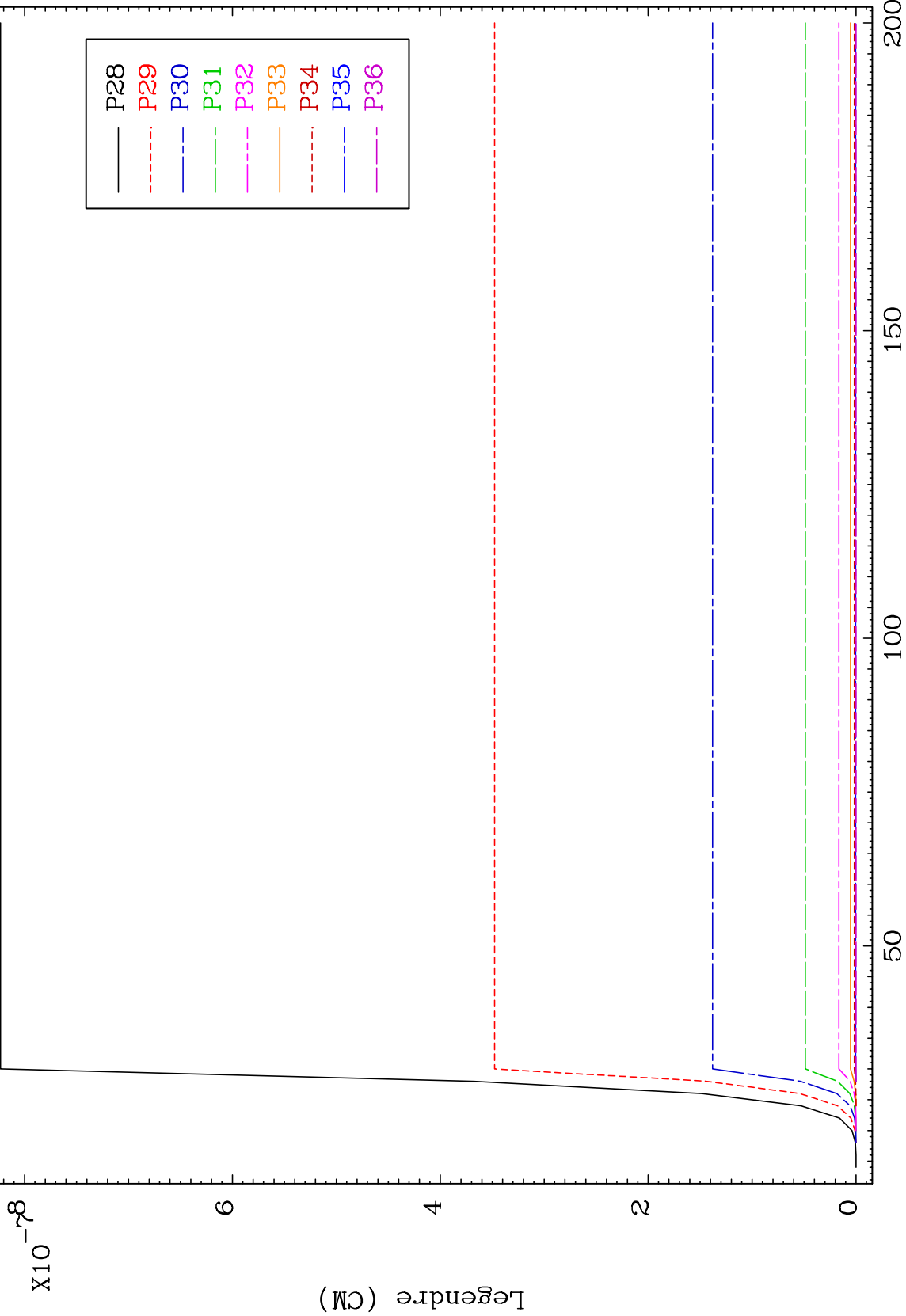
63-Eu-141



MAT 6295

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

63-Eu-141



39

Incident Energy (MeV)

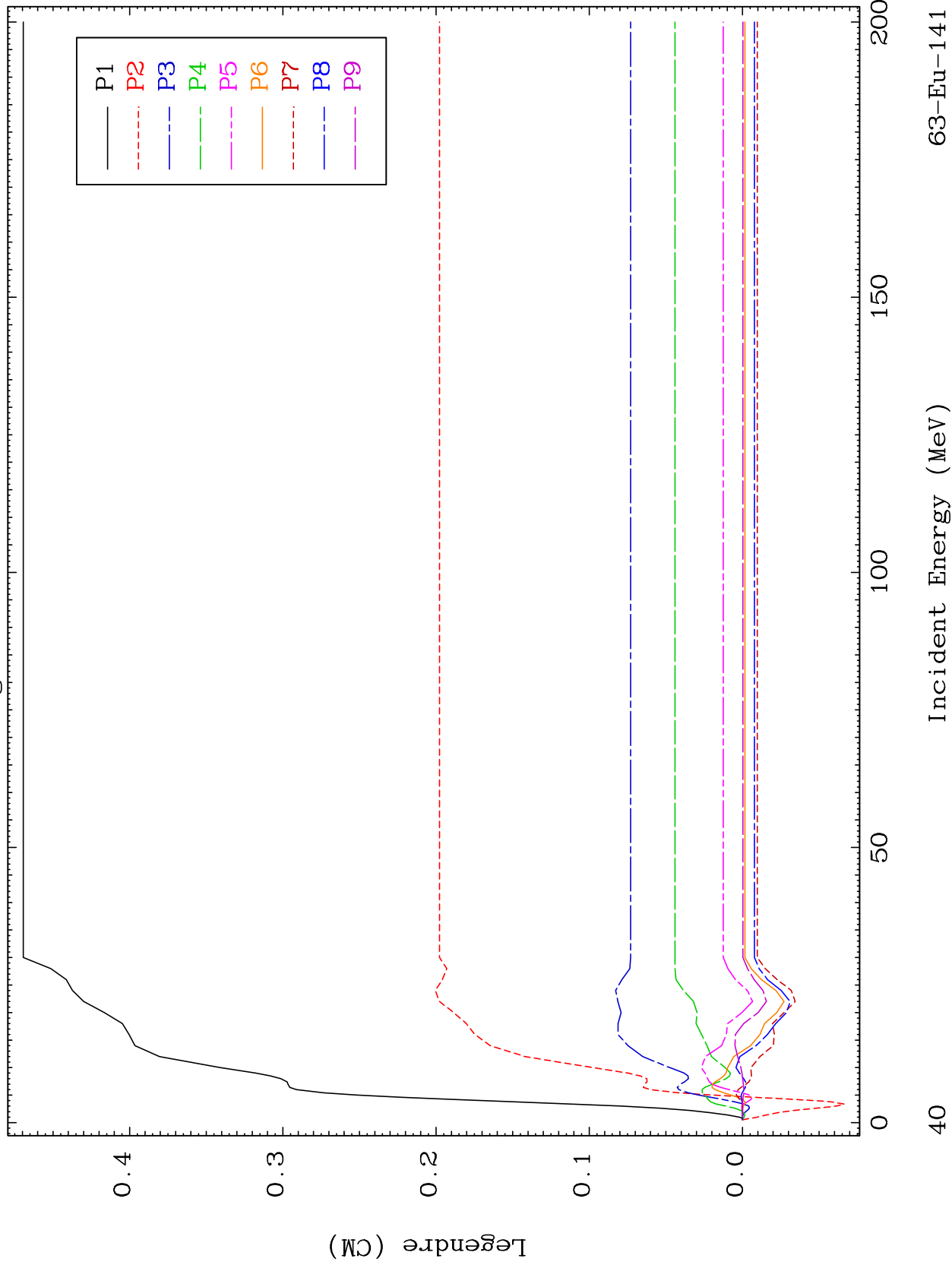
63-Eu-141



MAT 6295

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

63-Eu-141



63-Eu-141

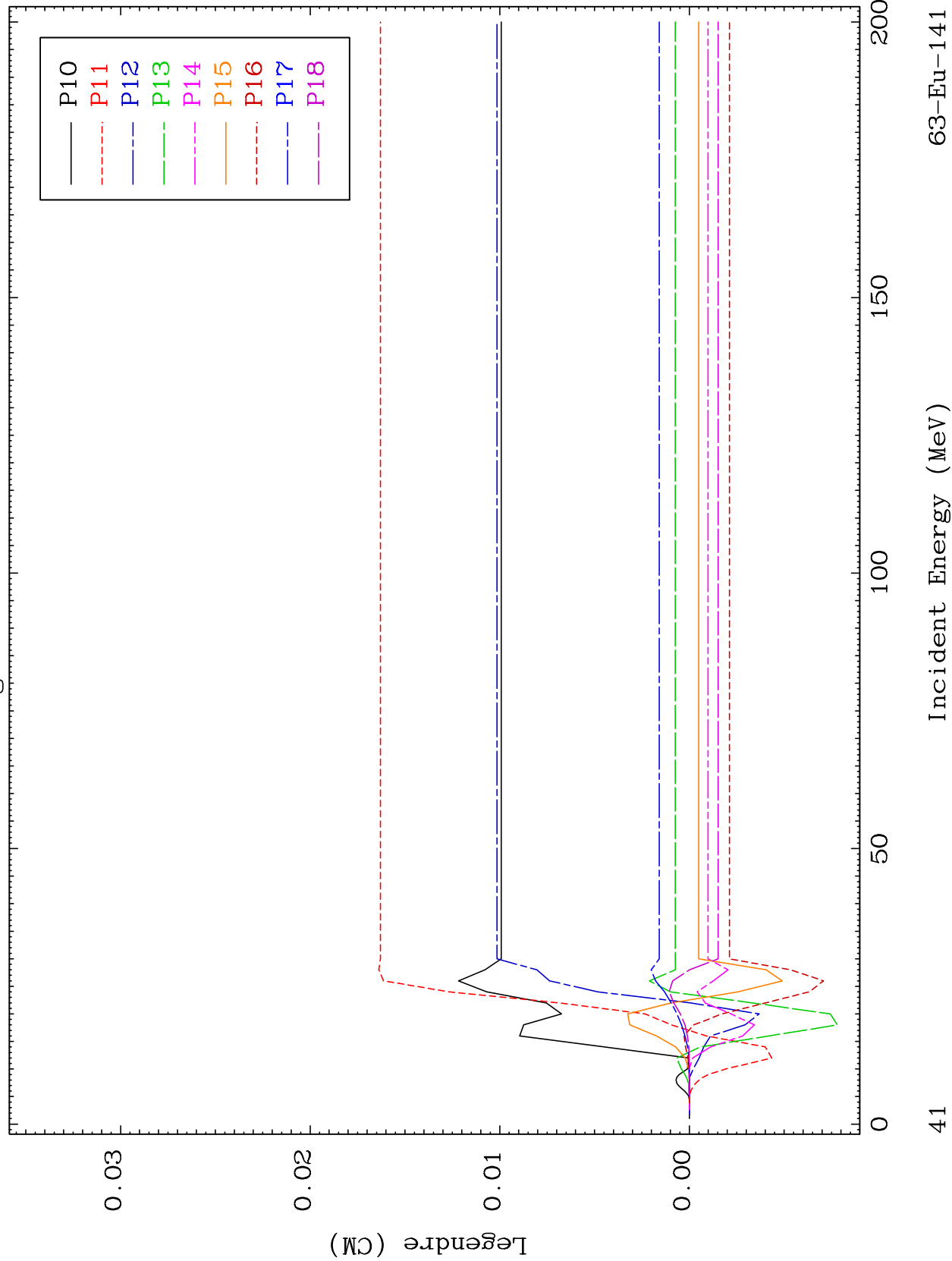
Incident Energy (MeV)

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MAT 6295

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

63-Eu-141



63-Eu-141

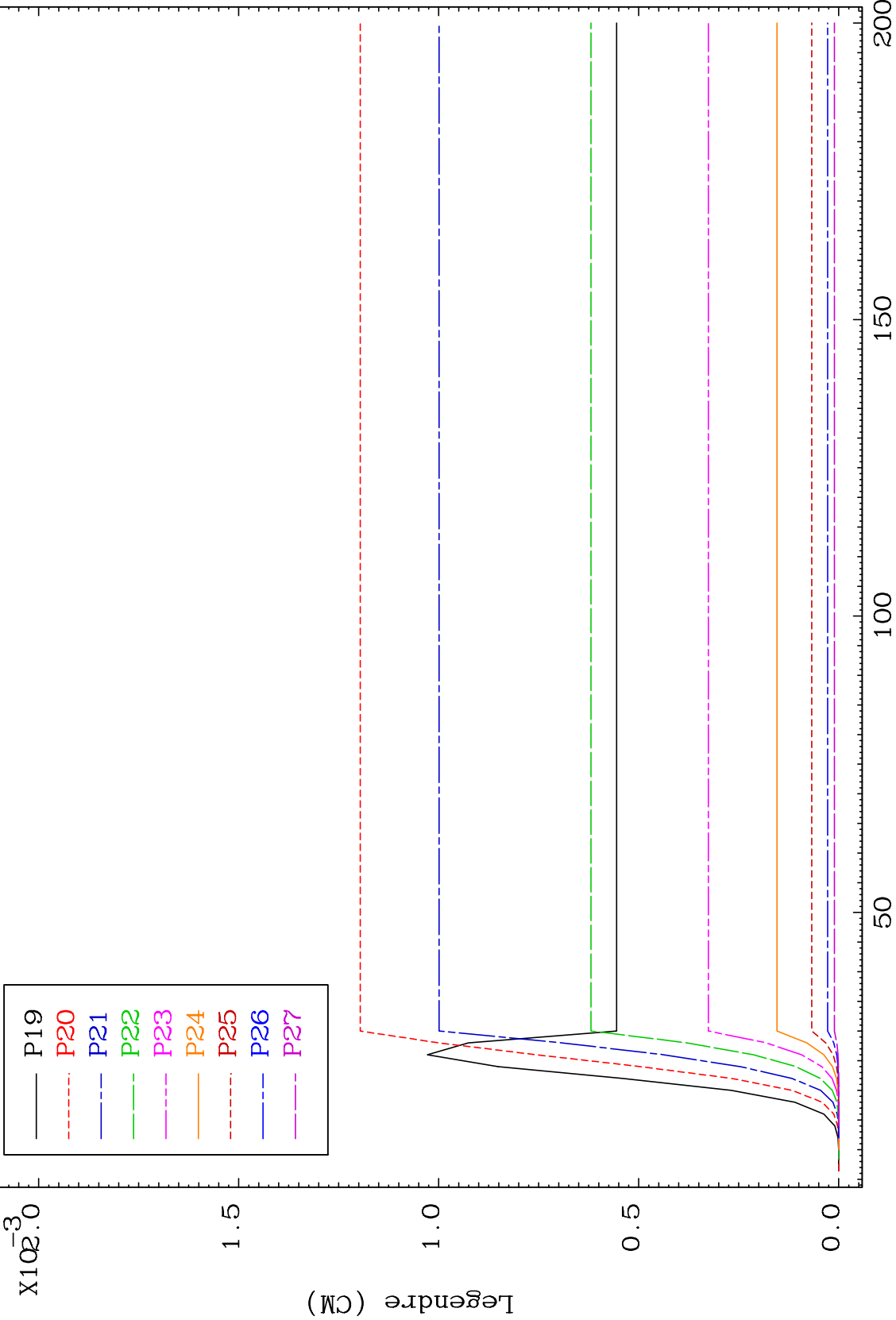
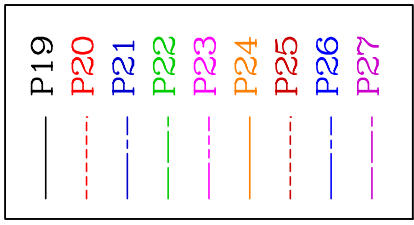
Incident Energy (MeV)

41

MAT 6295

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

63-Eu-141



42

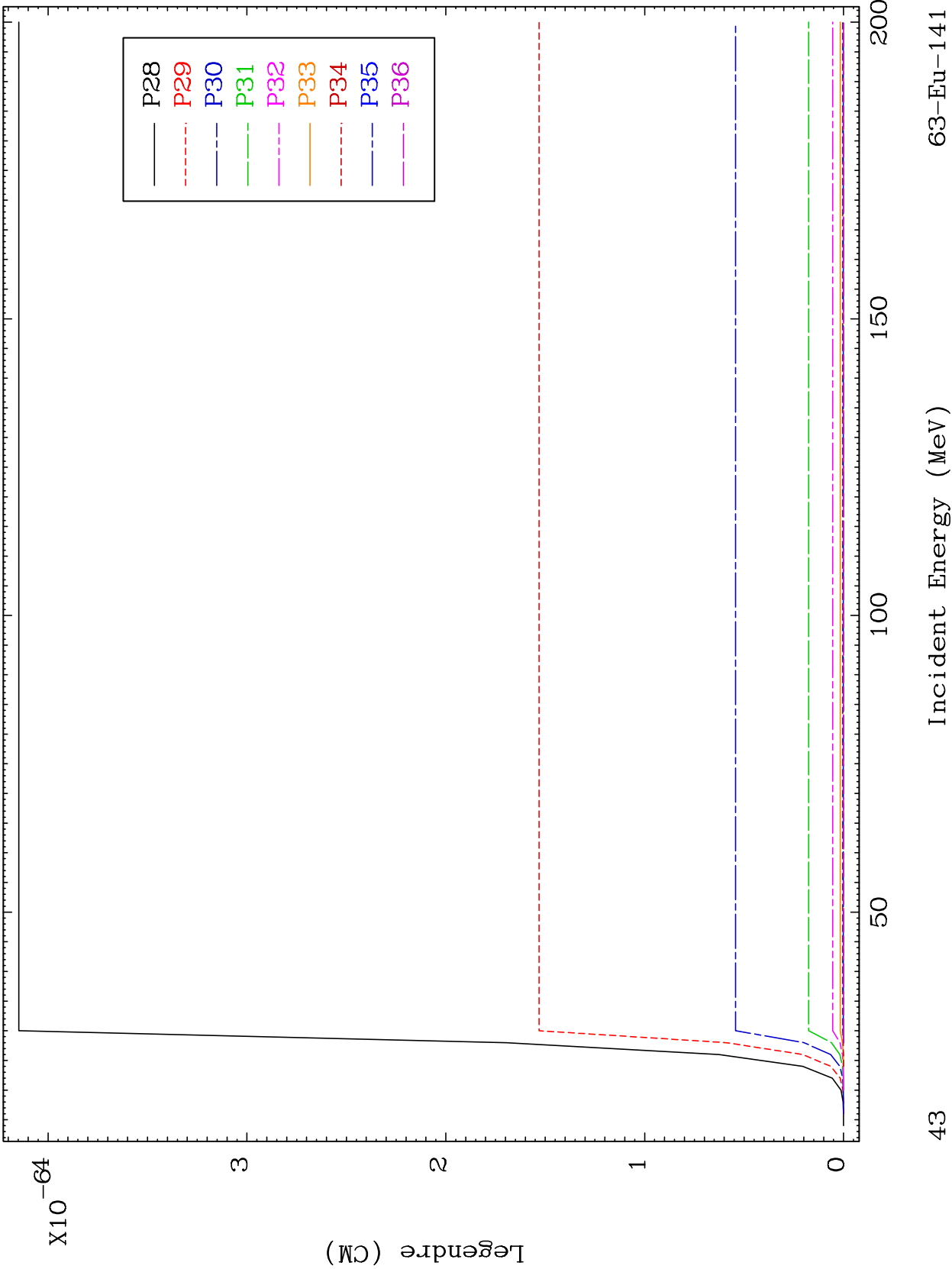
Incident Energy (MeV)

63-Eu-141

MAT 6295

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

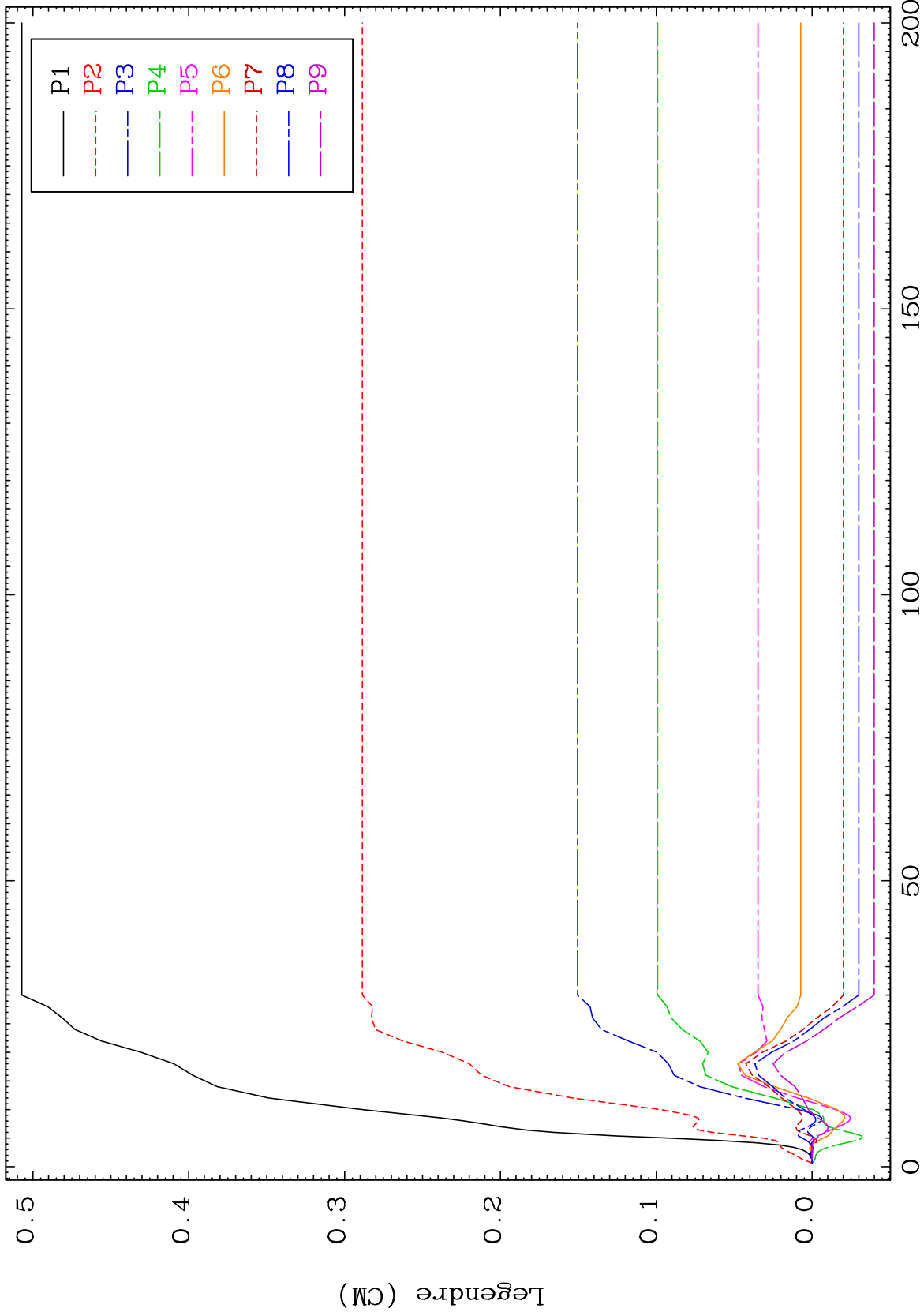
63-Eu-141



MAT 6295

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

63-Eu-141



44

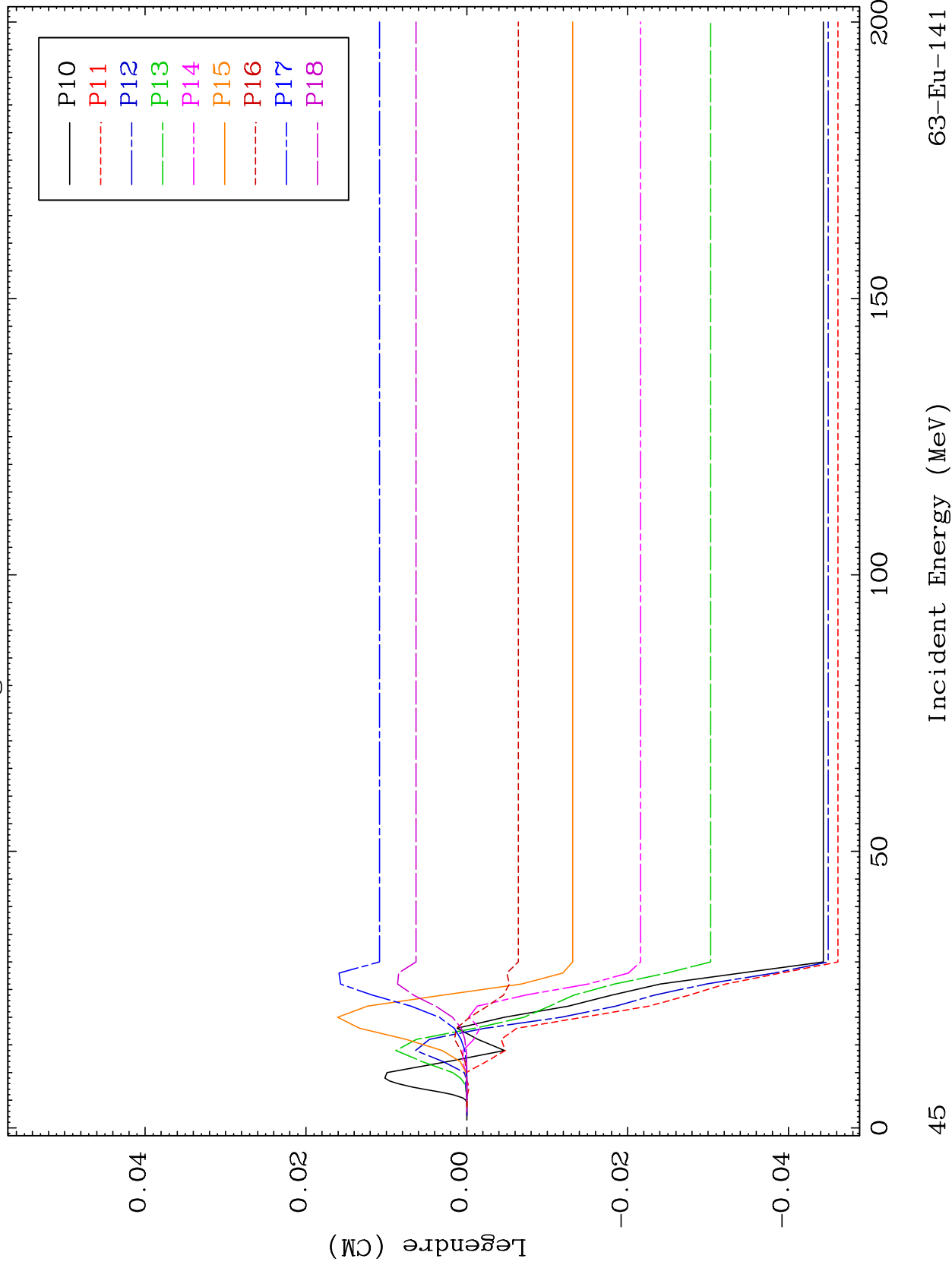
Incident Energy (MeV)

63-Eu-141

MAT 6295

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

63-Eu-141



63-Eu-141

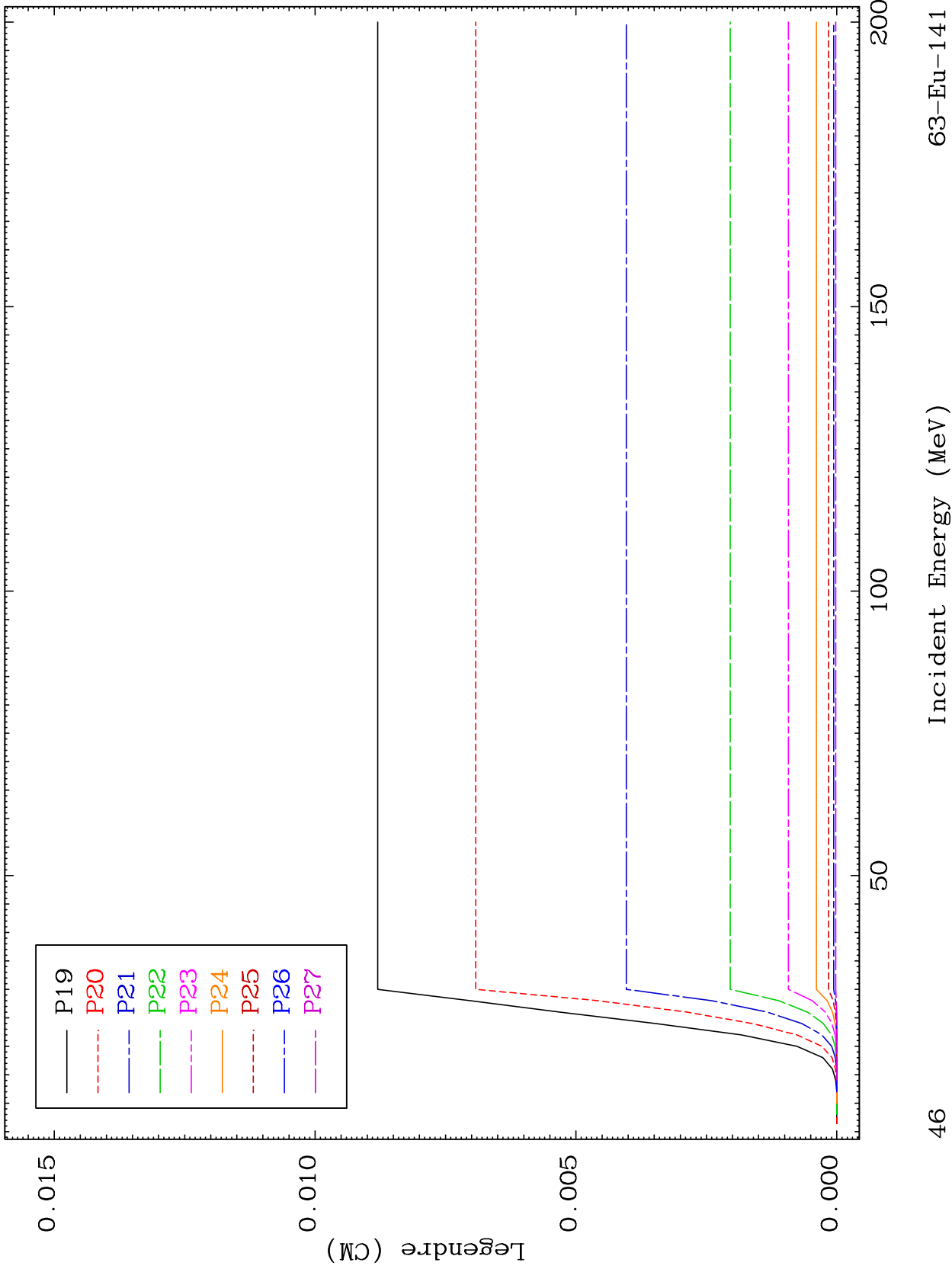
Incident Energy (MeV)

45

MAT 6295

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

63-Eu-141



46

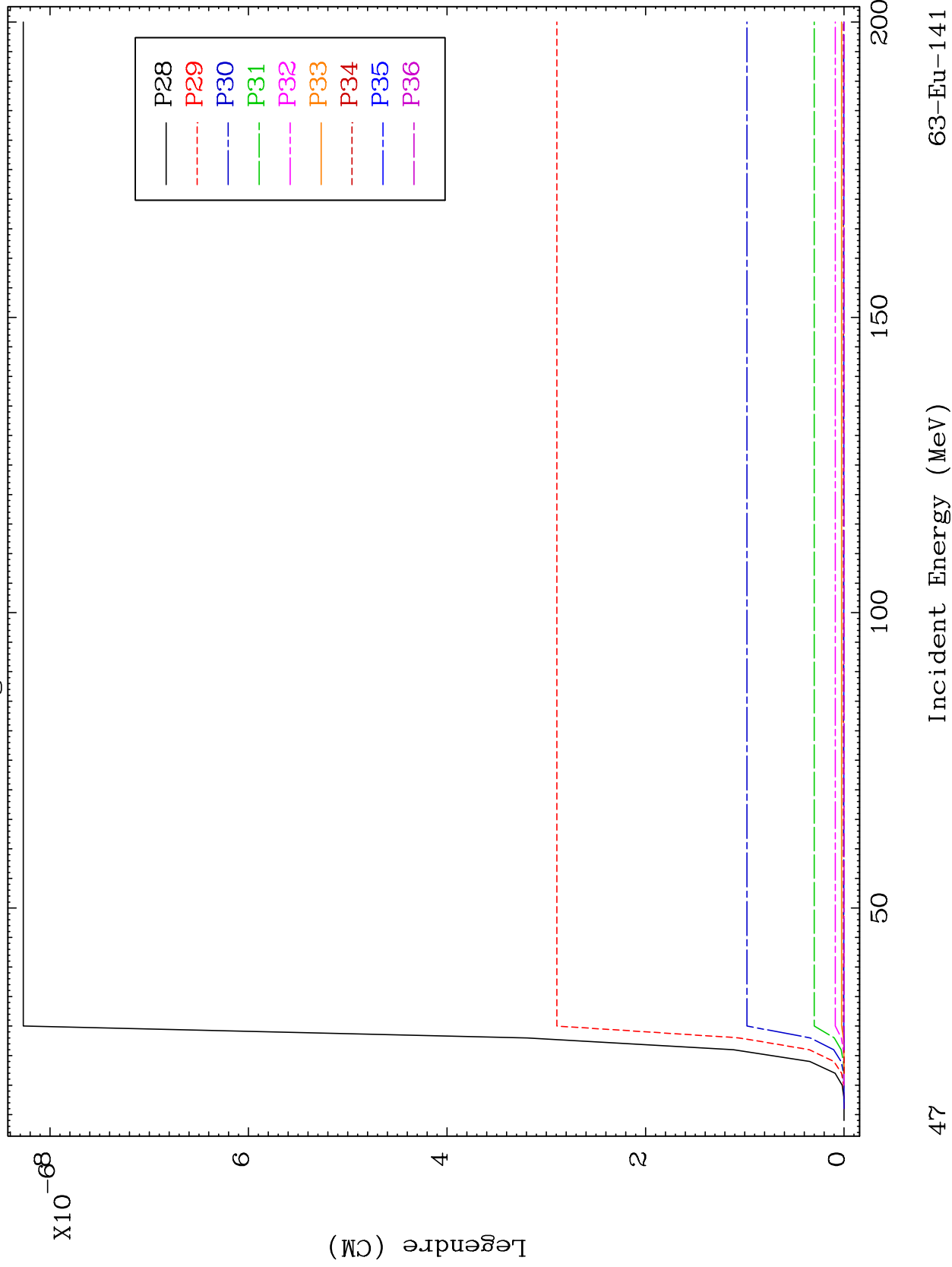
Incident Energy (MeV)

63-Eu-141

MAT 6295

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

63-Eu-141

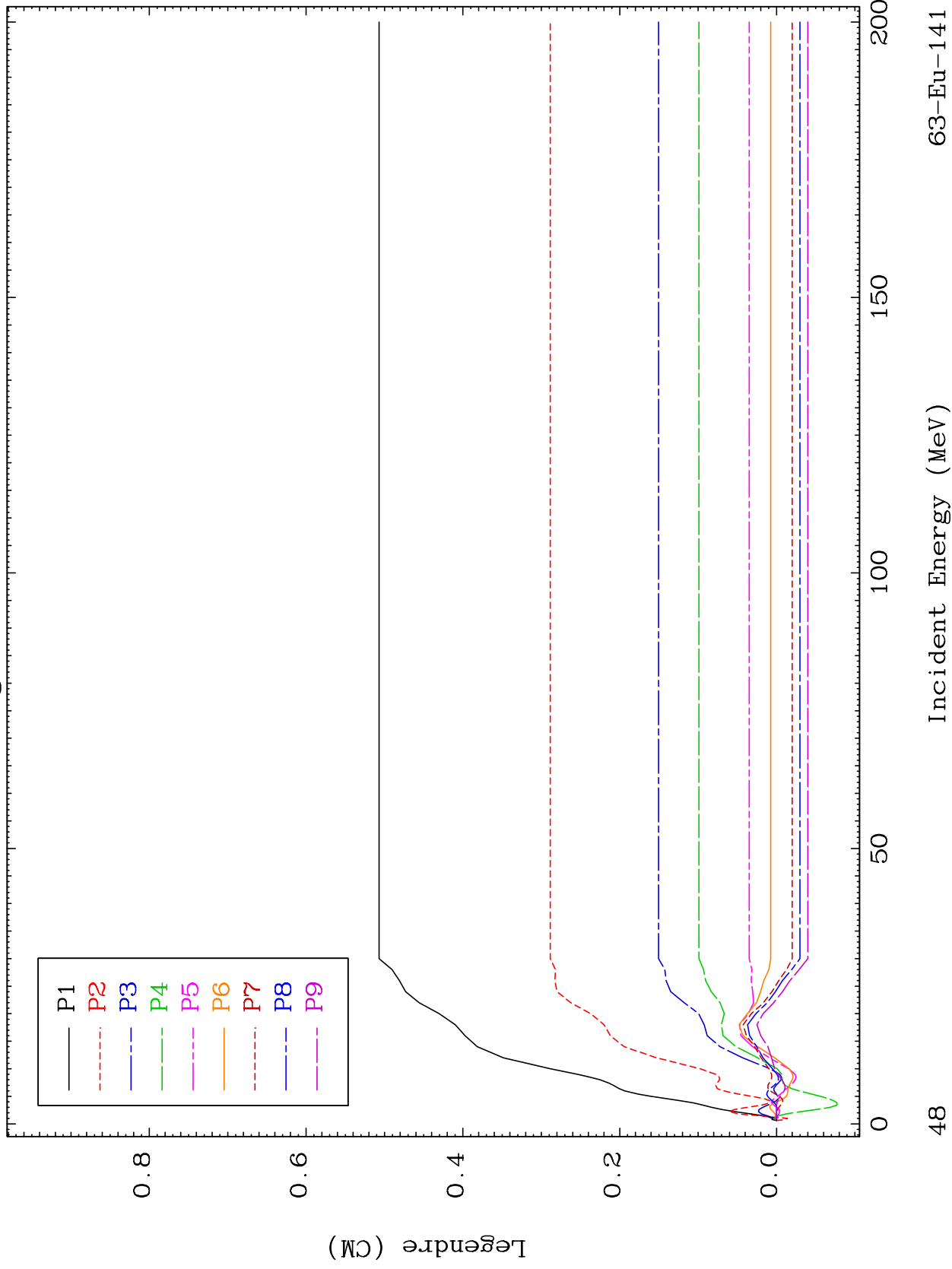




MAT 6295

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

63-Eu-141



63-Eu-141

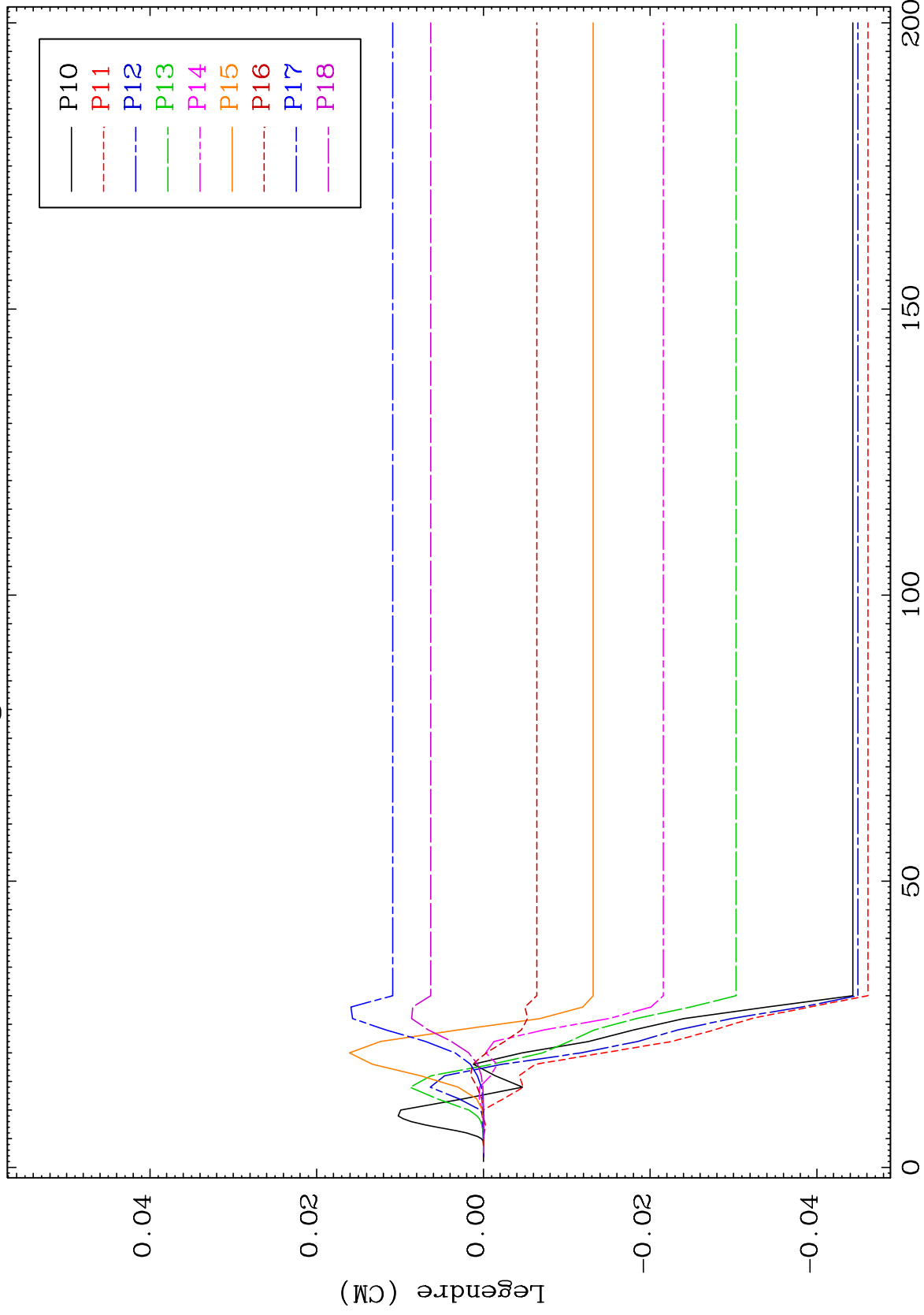
Incident Energy (MeV)

48

MAT 6295

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

63-Eu-141



49

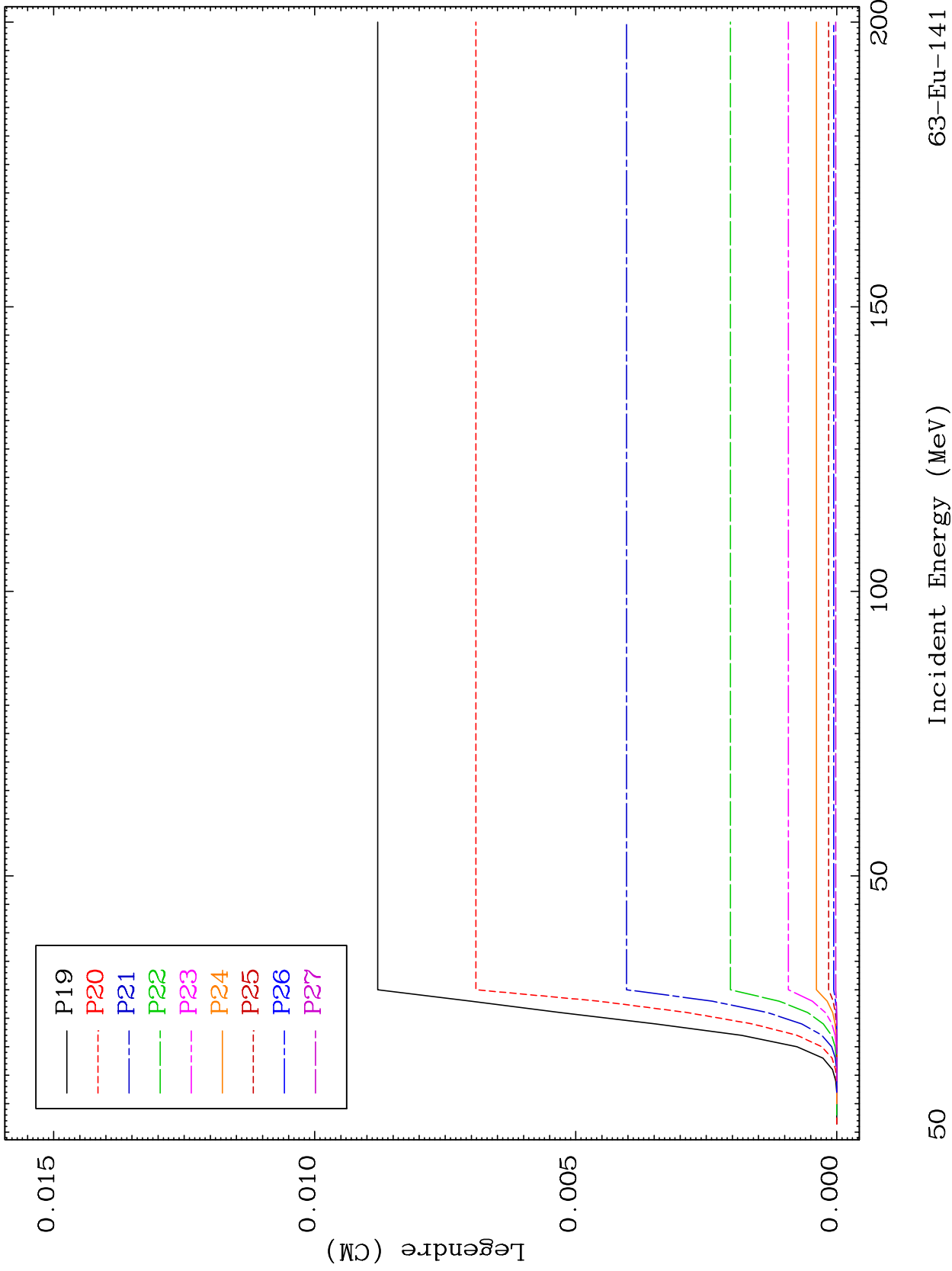
Incident Energy (MeV)

63-Eu-141

MAT 6295

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

63-Eu-141



63-Eu-141

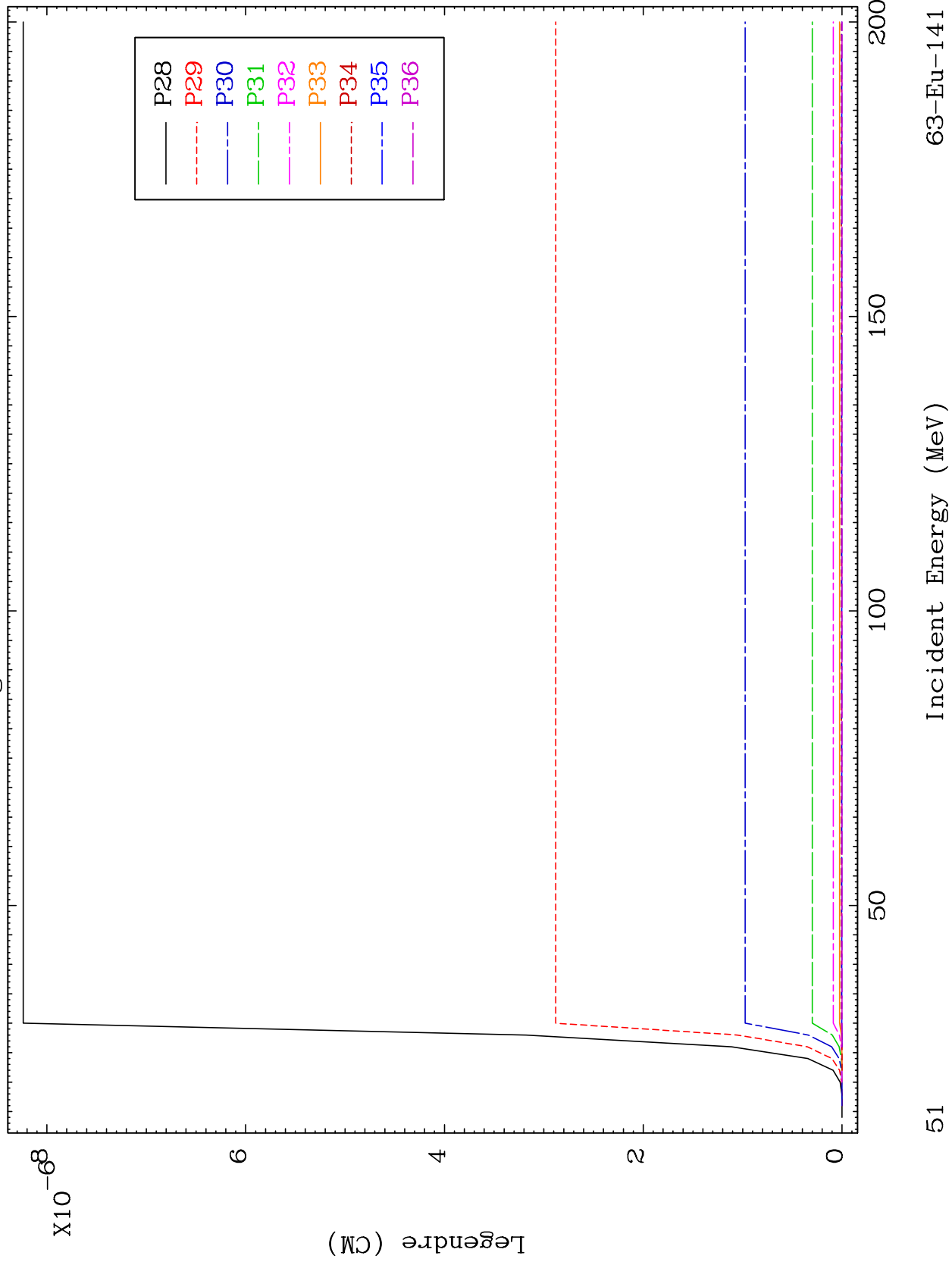
Incident Energy (MeV)

50

MAT 6295

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

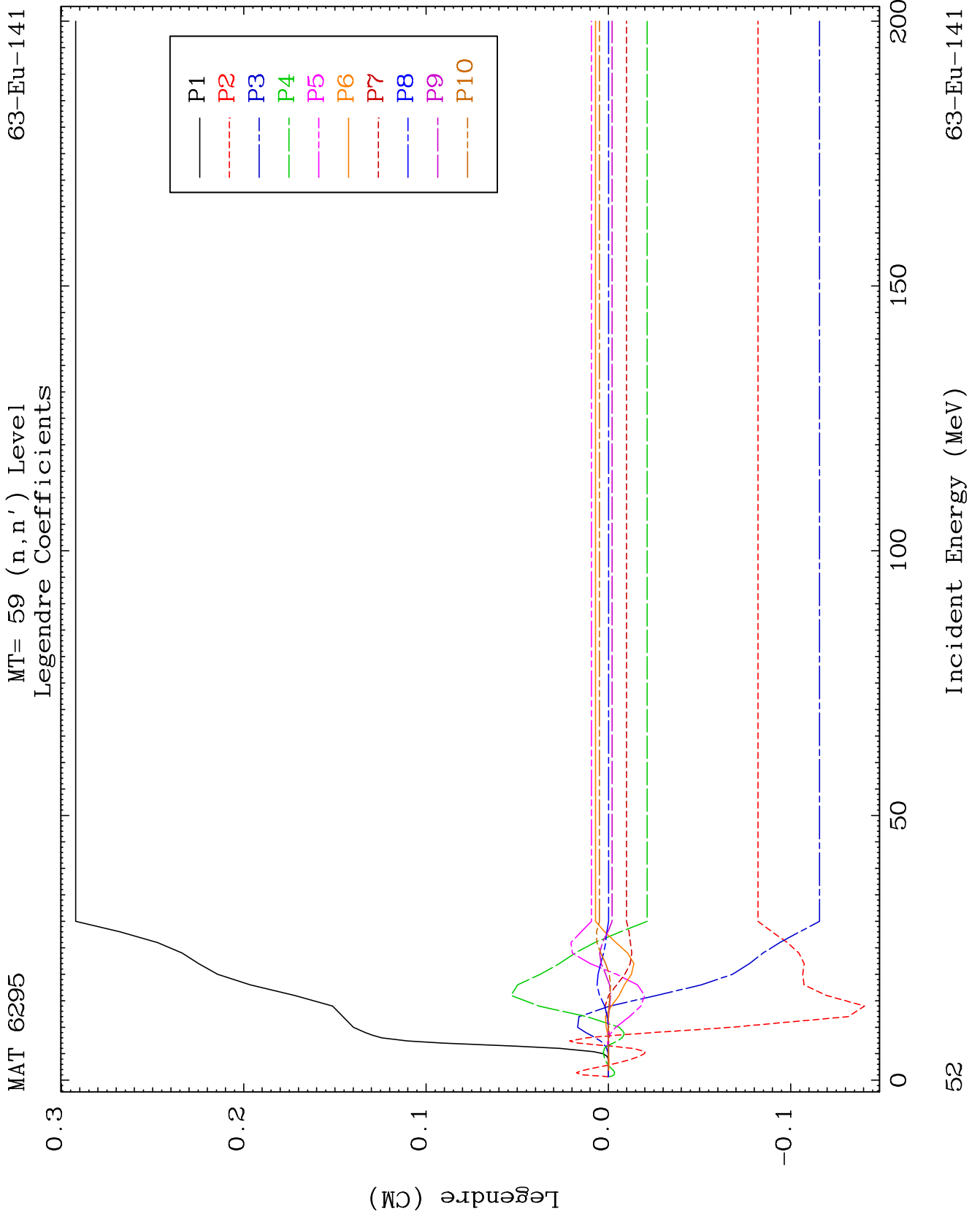
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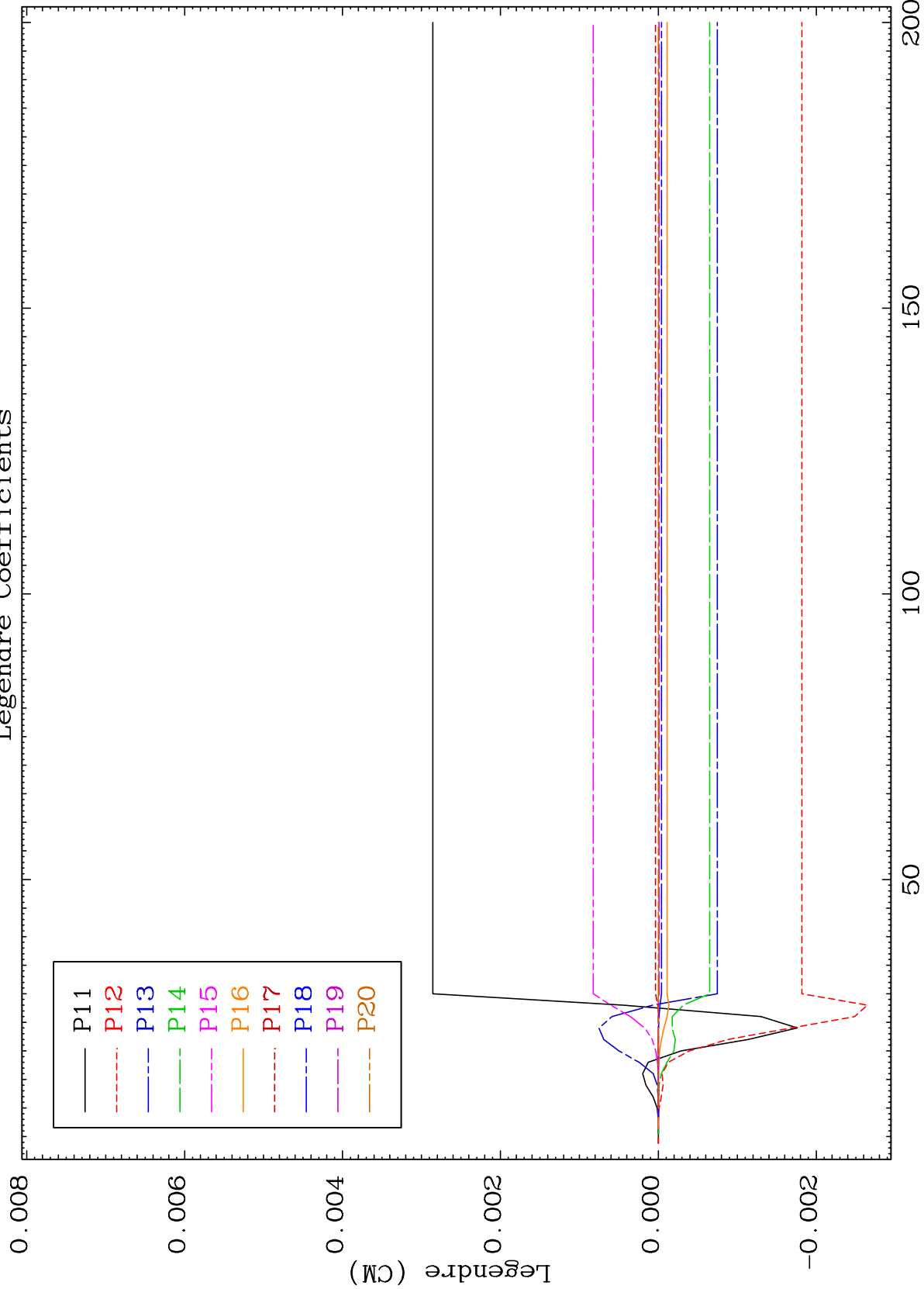


51

Incident Energy (MeV)

63-Eu-141

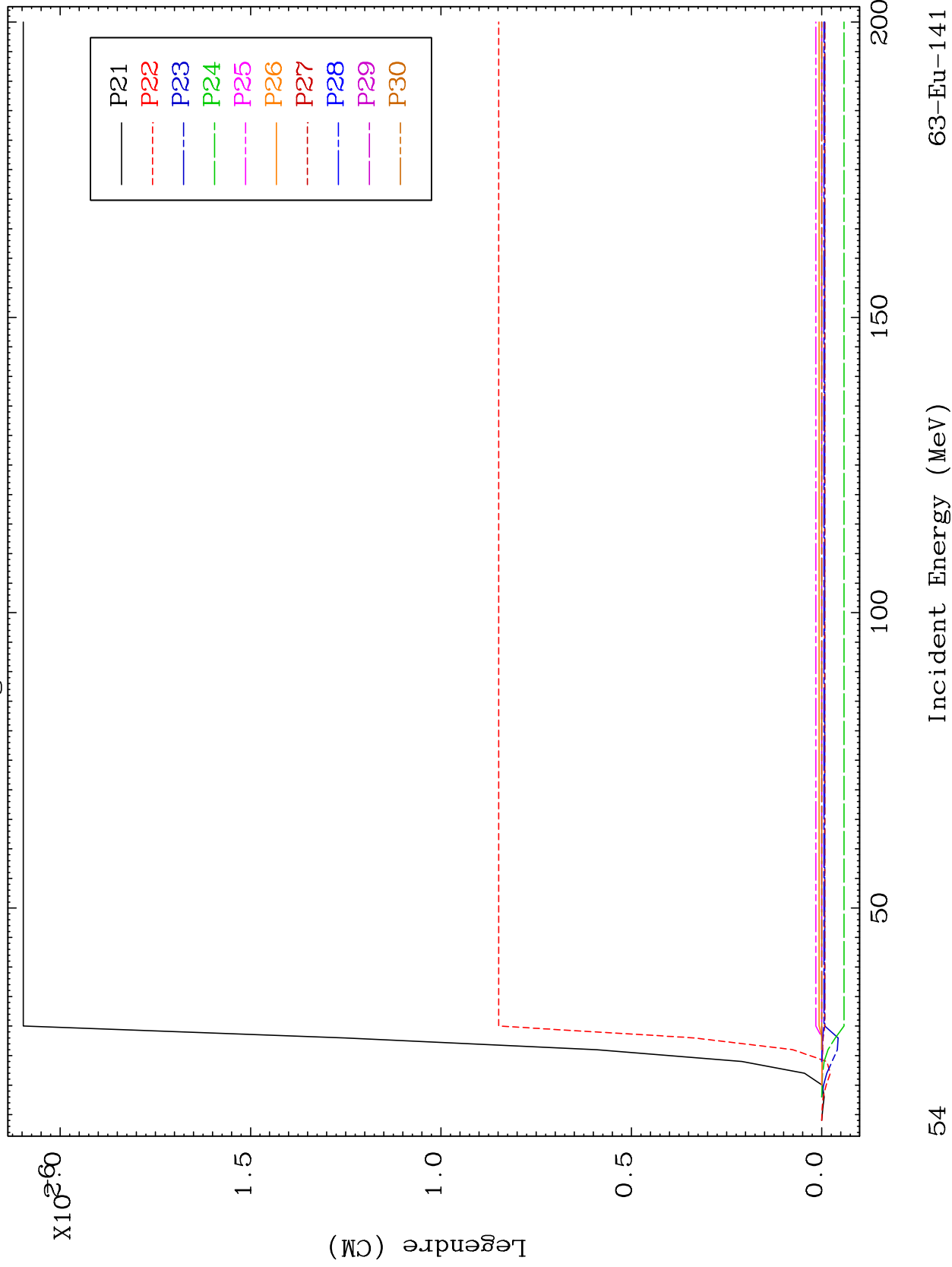




MAT 6295

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

63-Eu-141



54

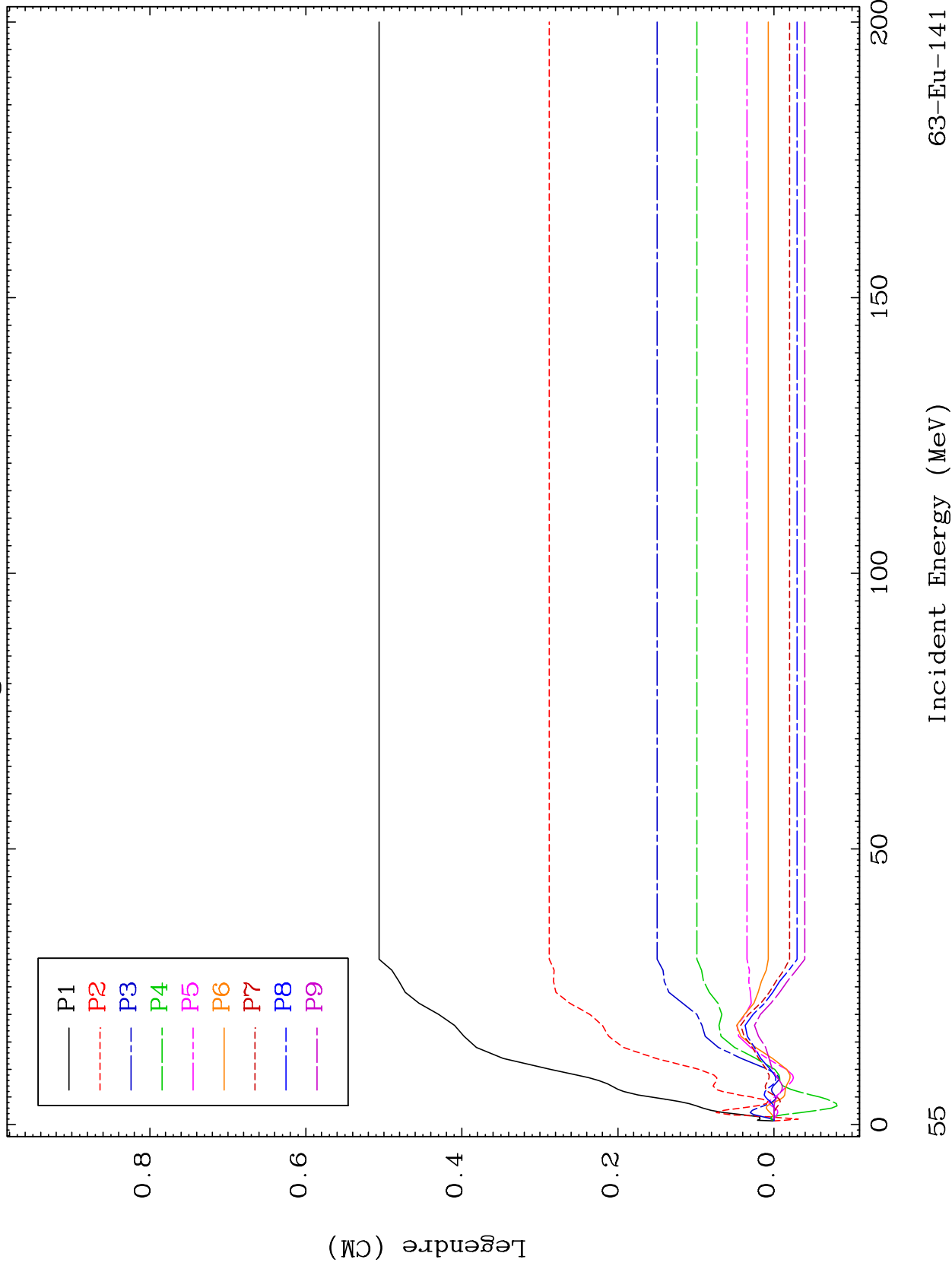
Incident Energy (MeV)

63-Eu-141

MAT 6295

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

63-Eu-141

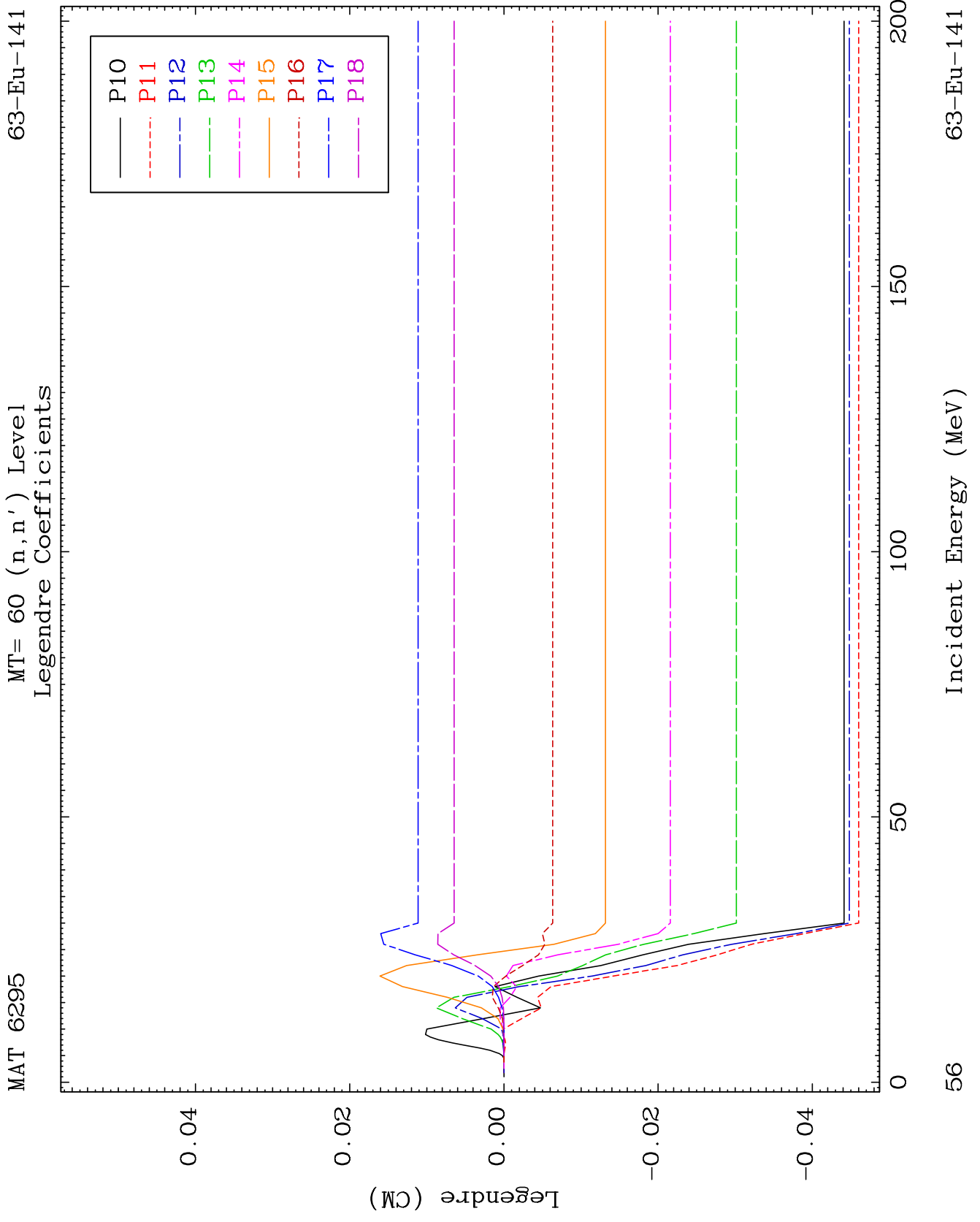


63-Eu-141

Incident Energy (MeV)

55





63-Eu-141

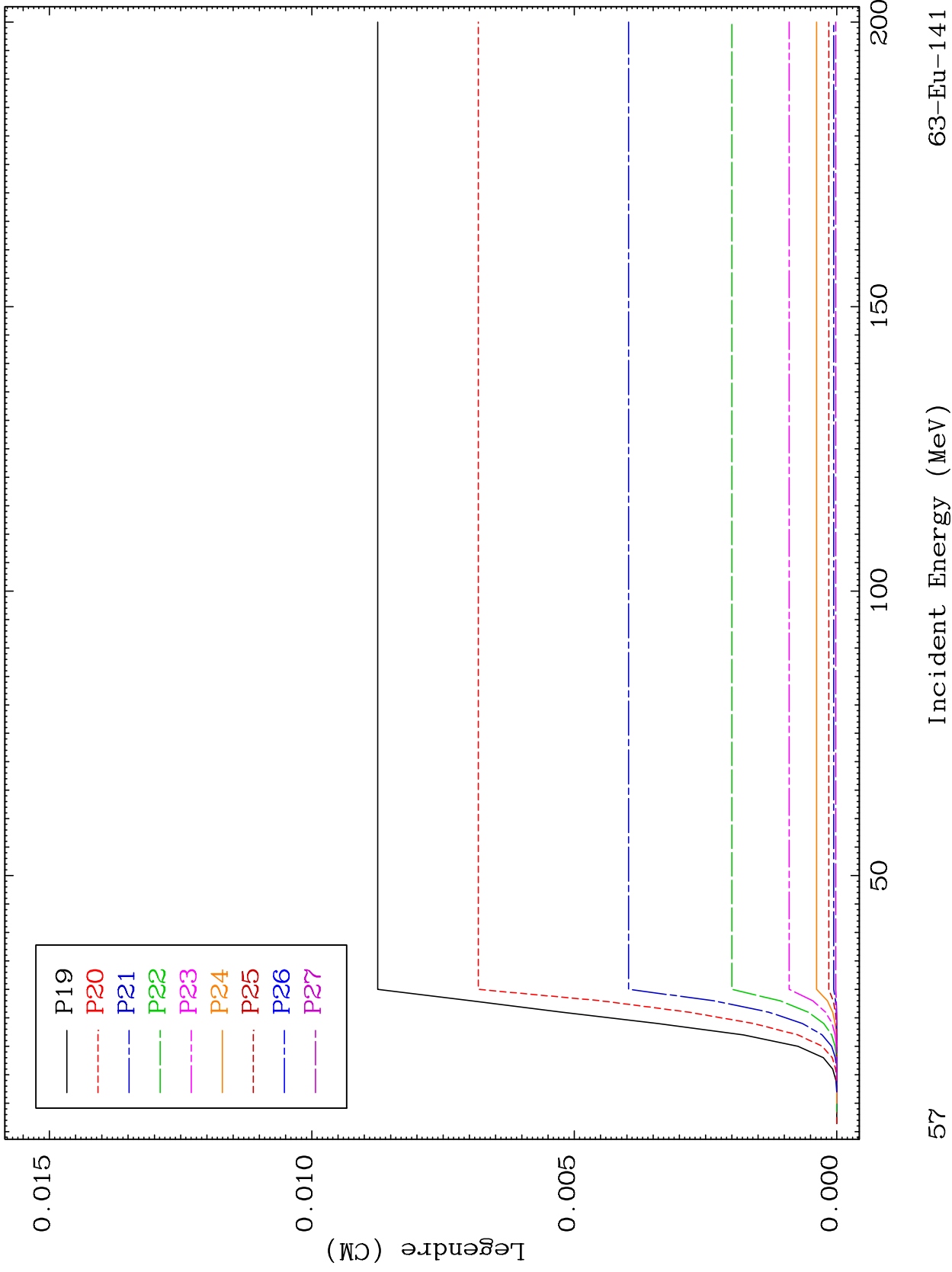
Incident Energy (MeV)

56

MAT 6295

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

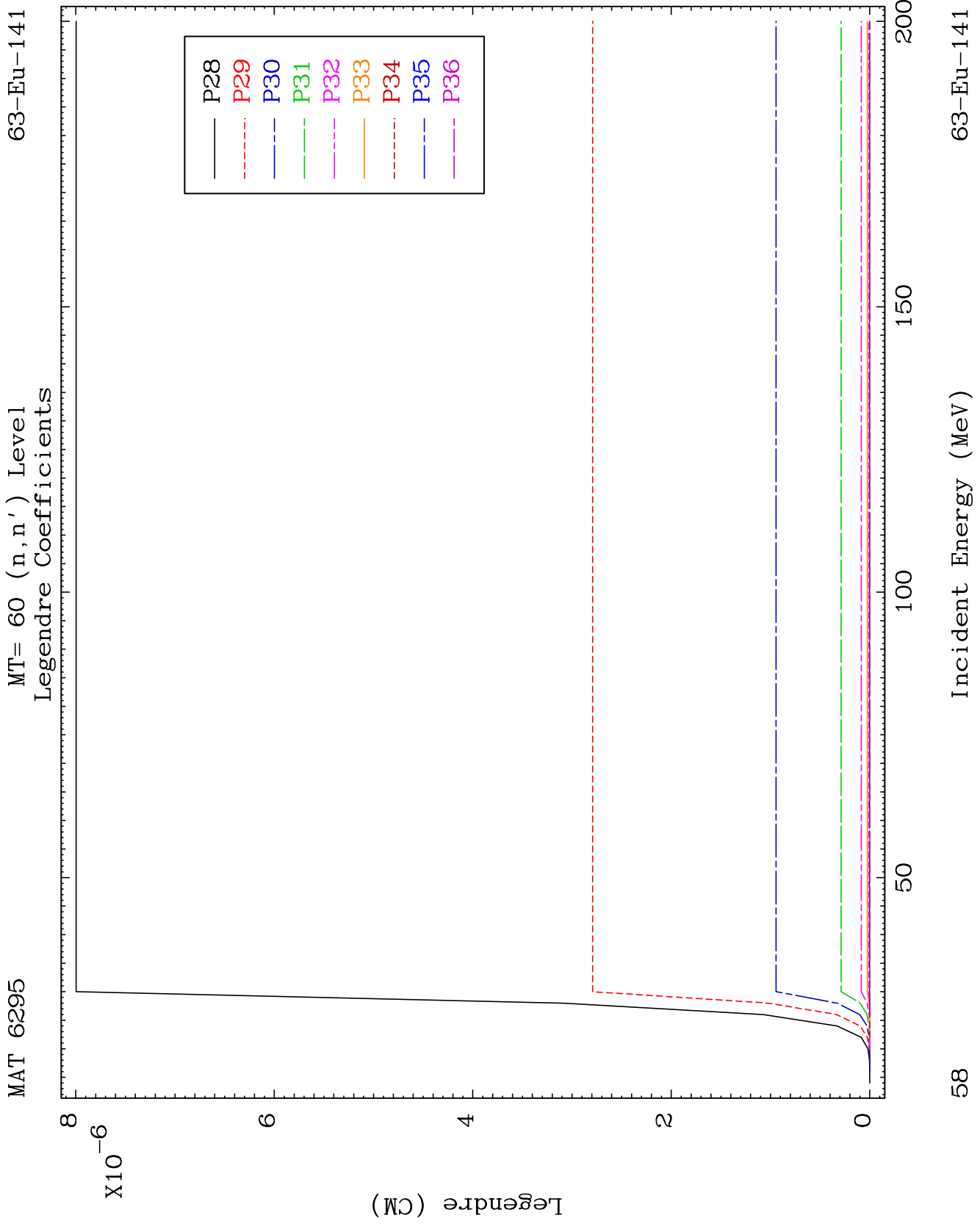
63-Eu-141



57

Incident Energy (MeV)

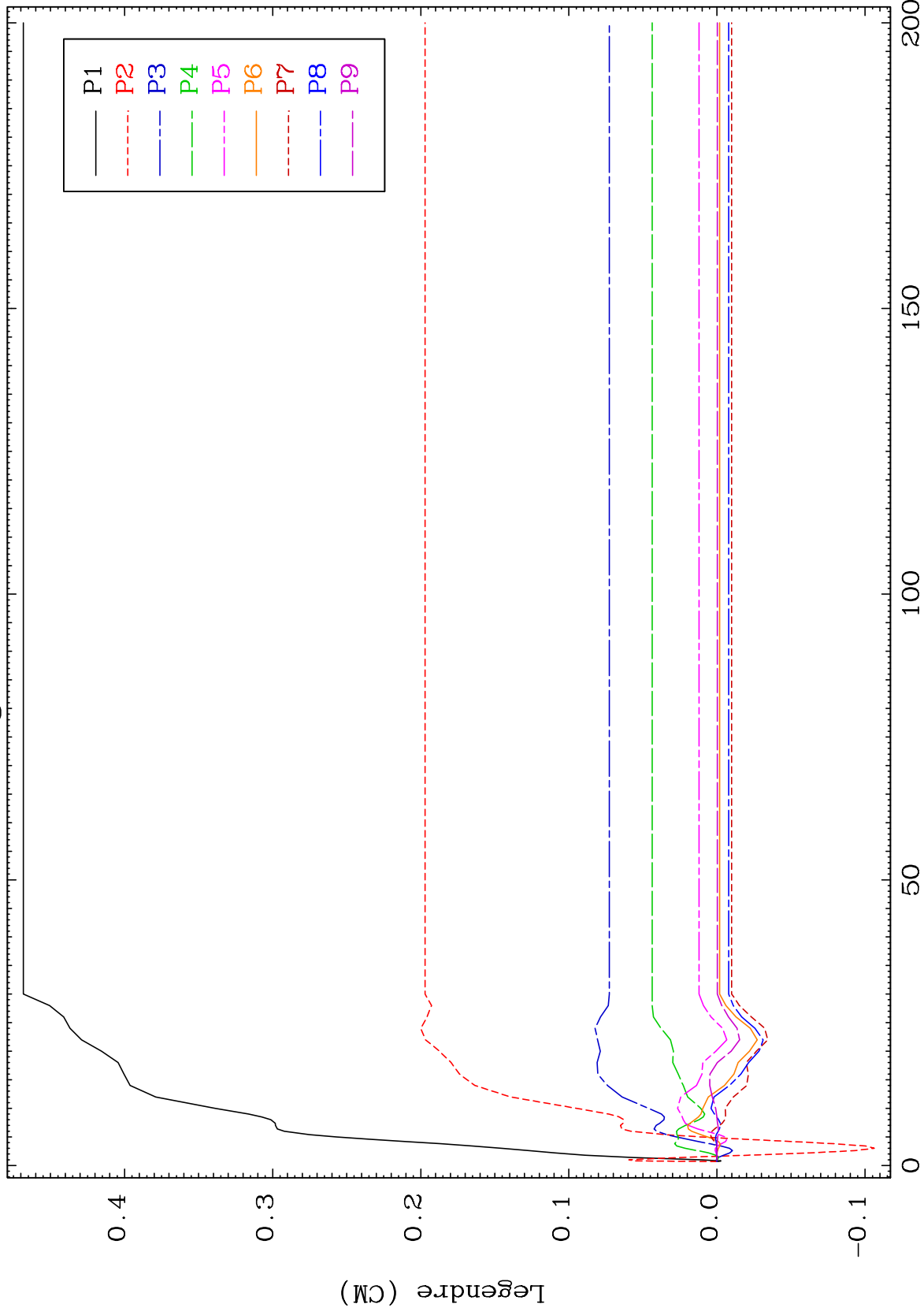
63-Eu-141



MAT 6295

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

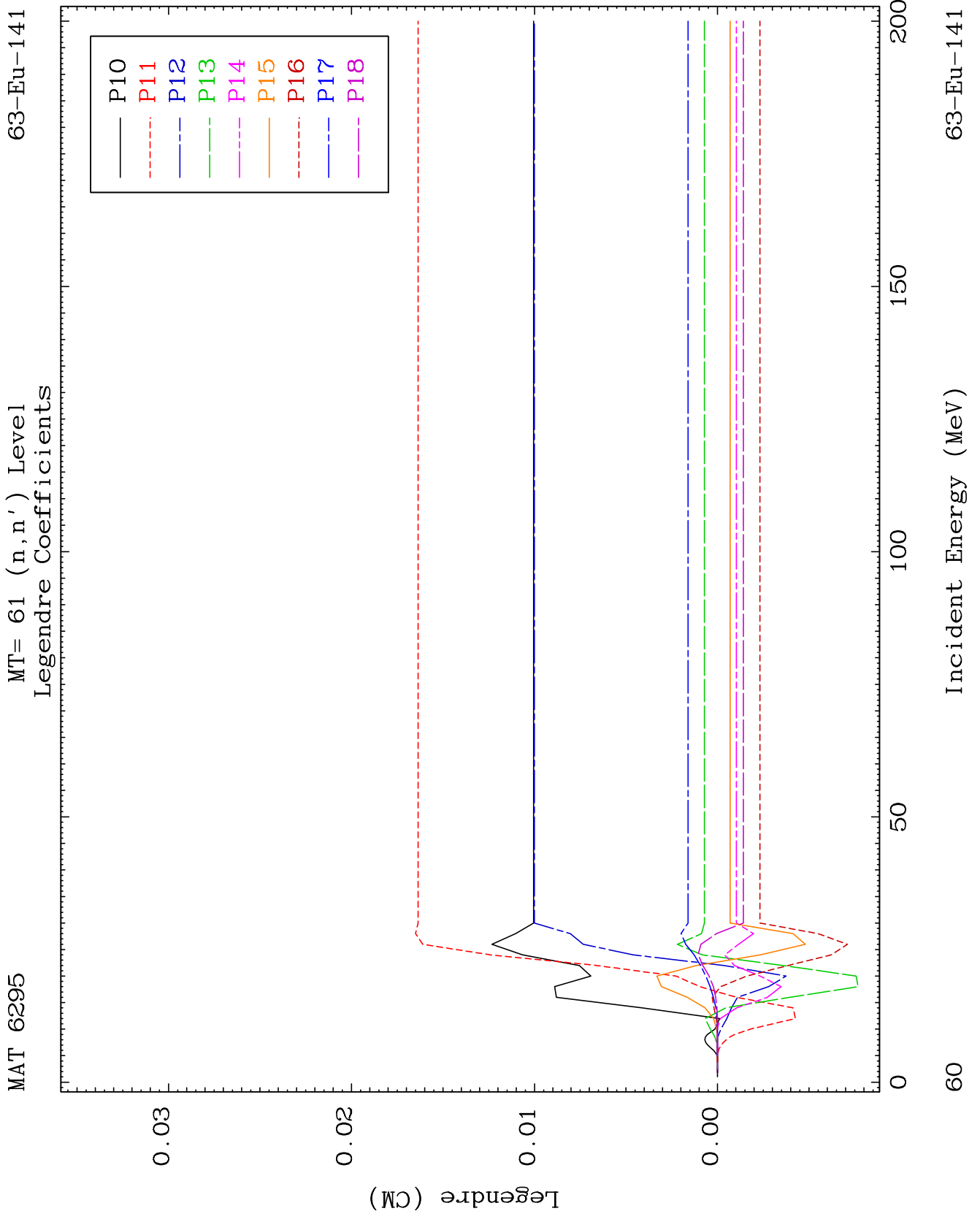
63-Eu-141



59

Incident Energy (MeV)

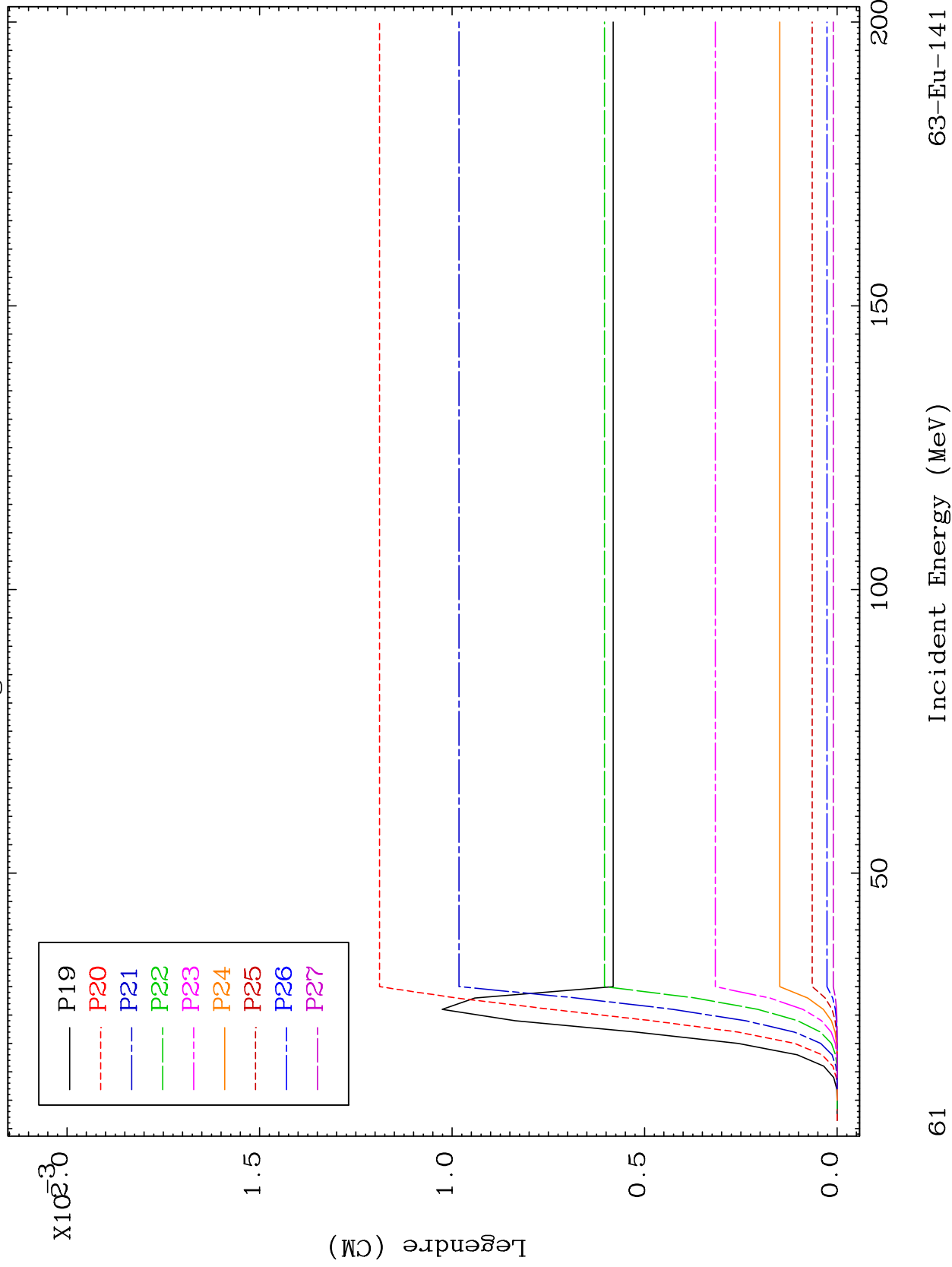
63-Eu-141



MAT 6295

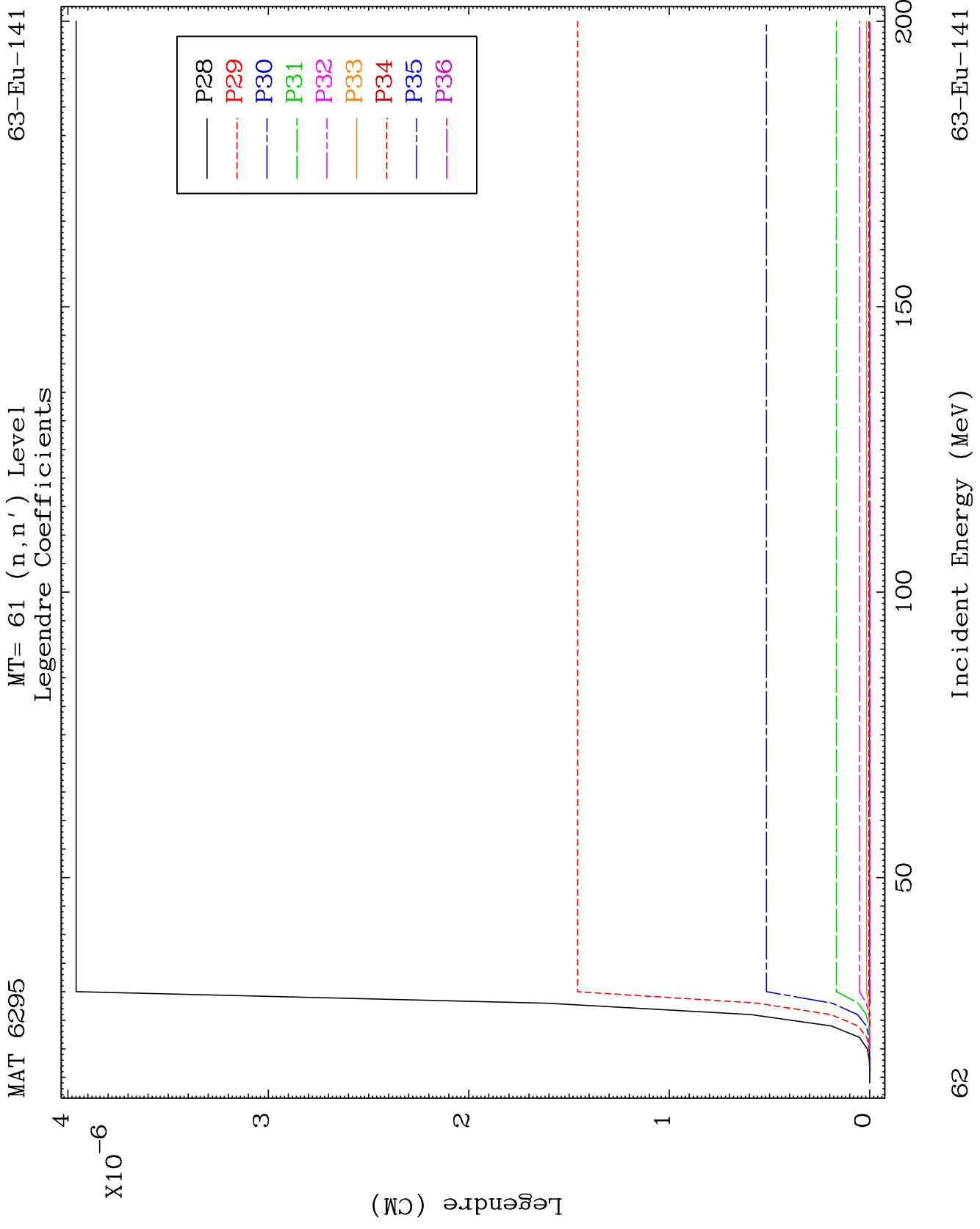
MT= 61 (n,n') Level  
Legendre Coefficients

63-Eu-141



61

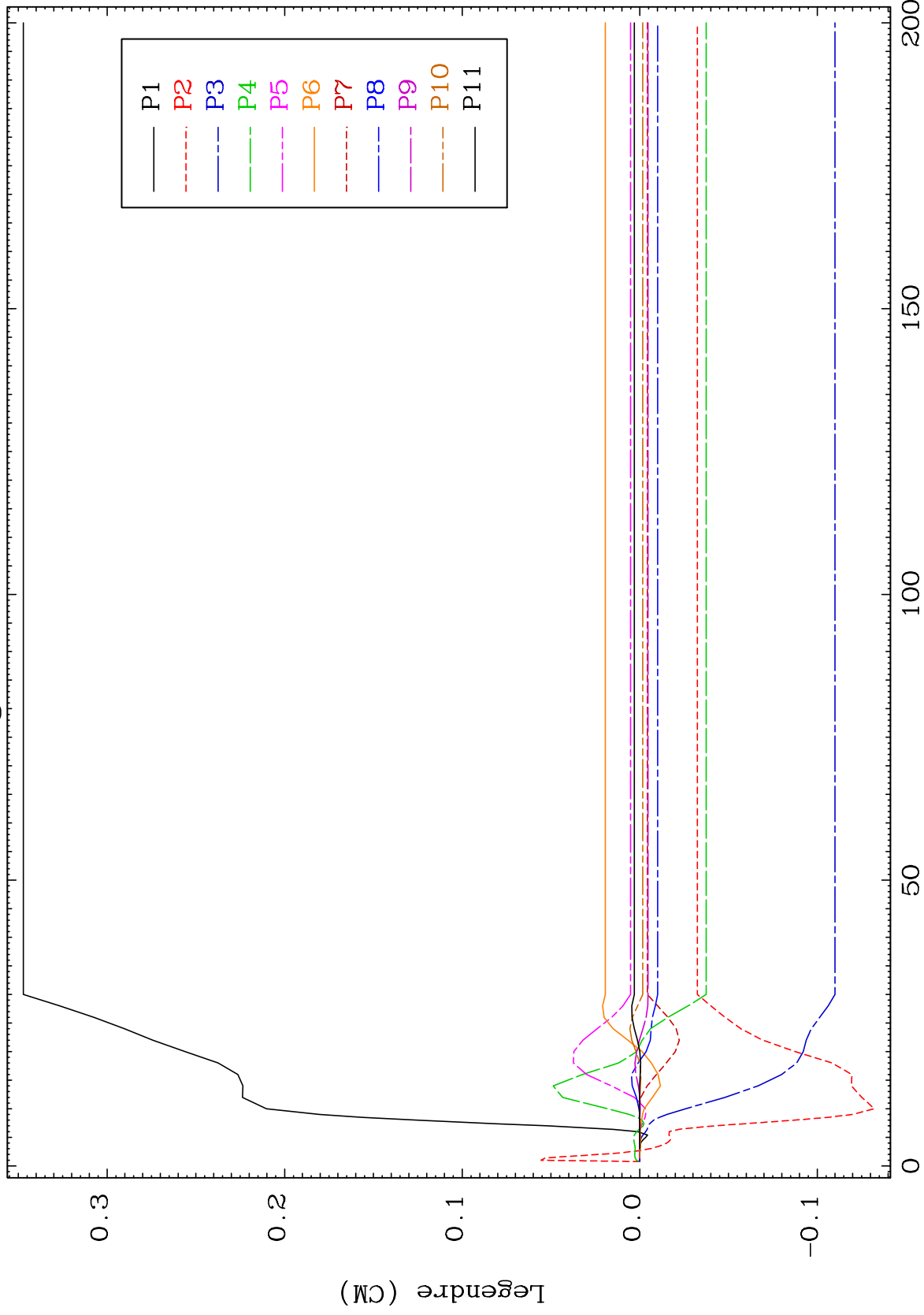
63-Eu-141



MAT 6295

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

63-Eu-141

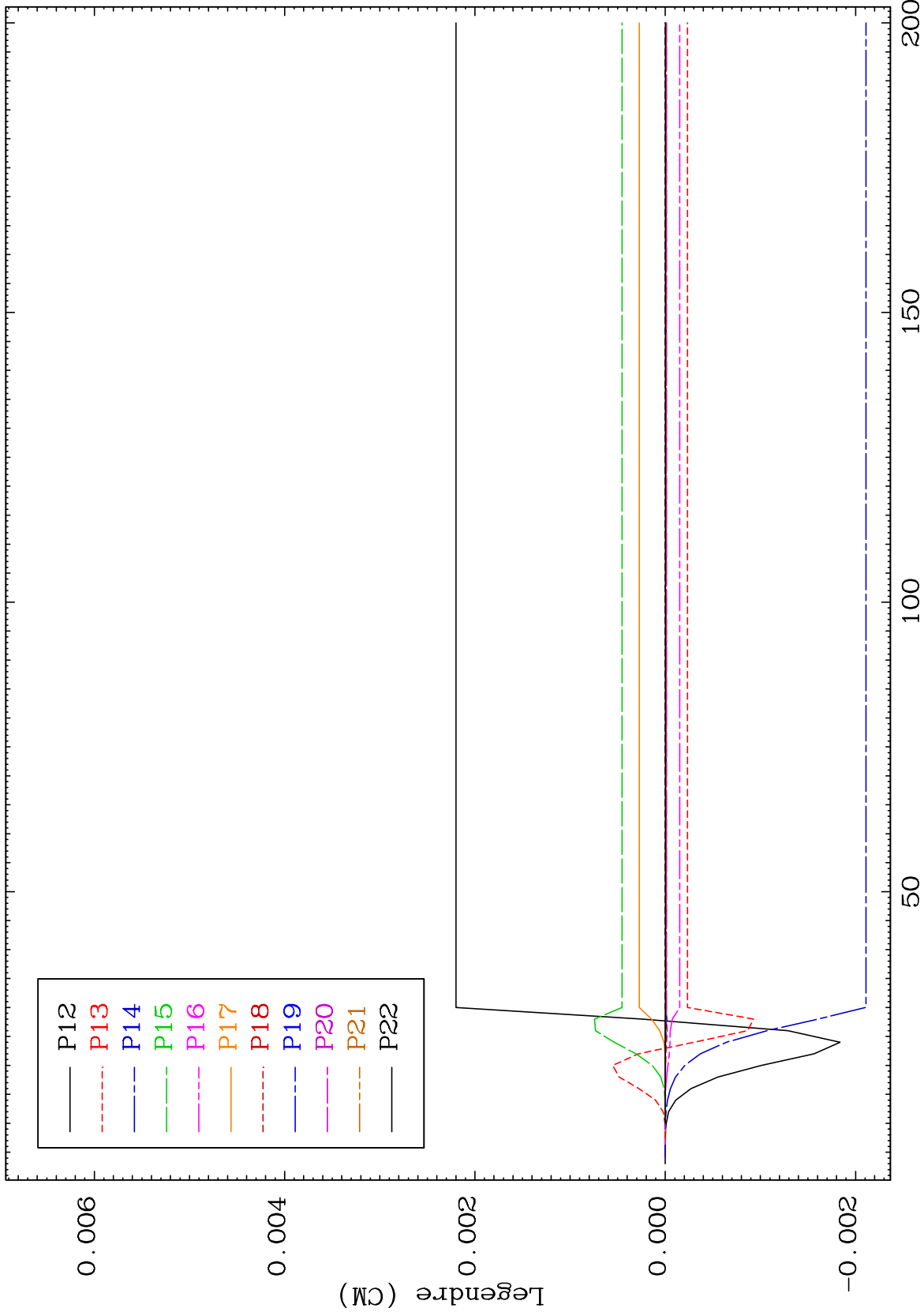


63

Incident Energy (MeV)

63-Eu-141

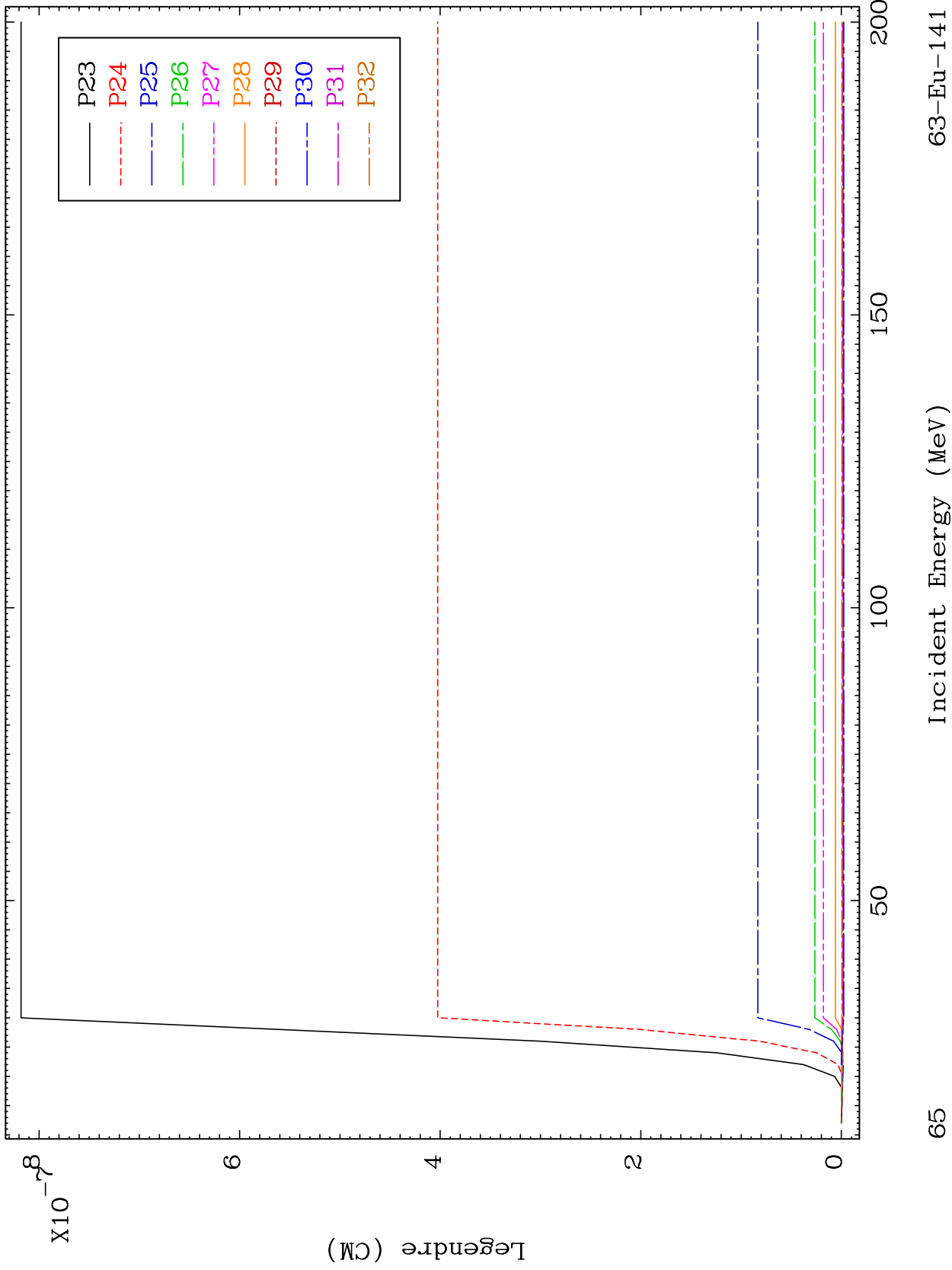




MAT 6295

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

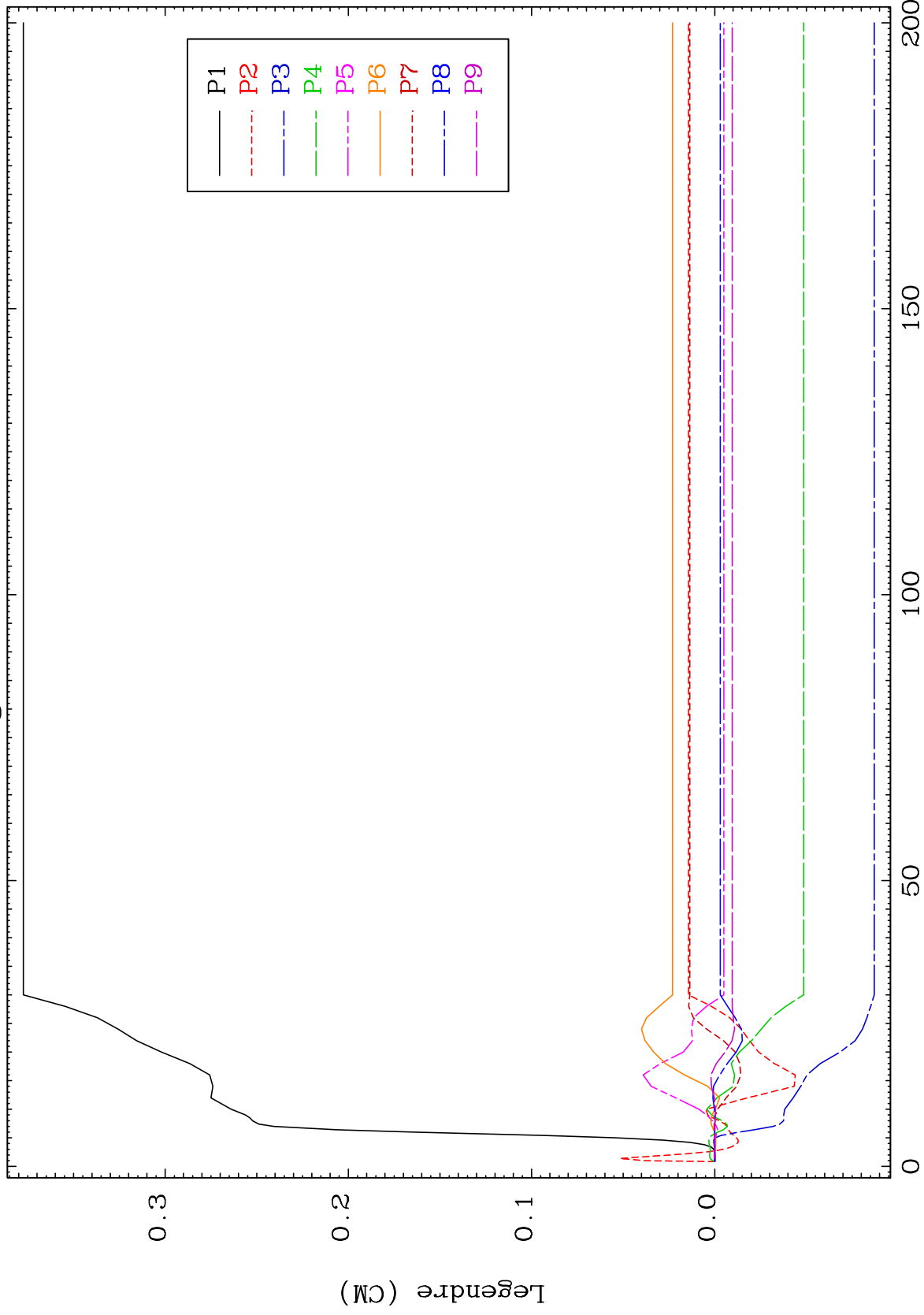
63-Eu-141



MAT 6295

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

63-Eu-141



63-Eu-141

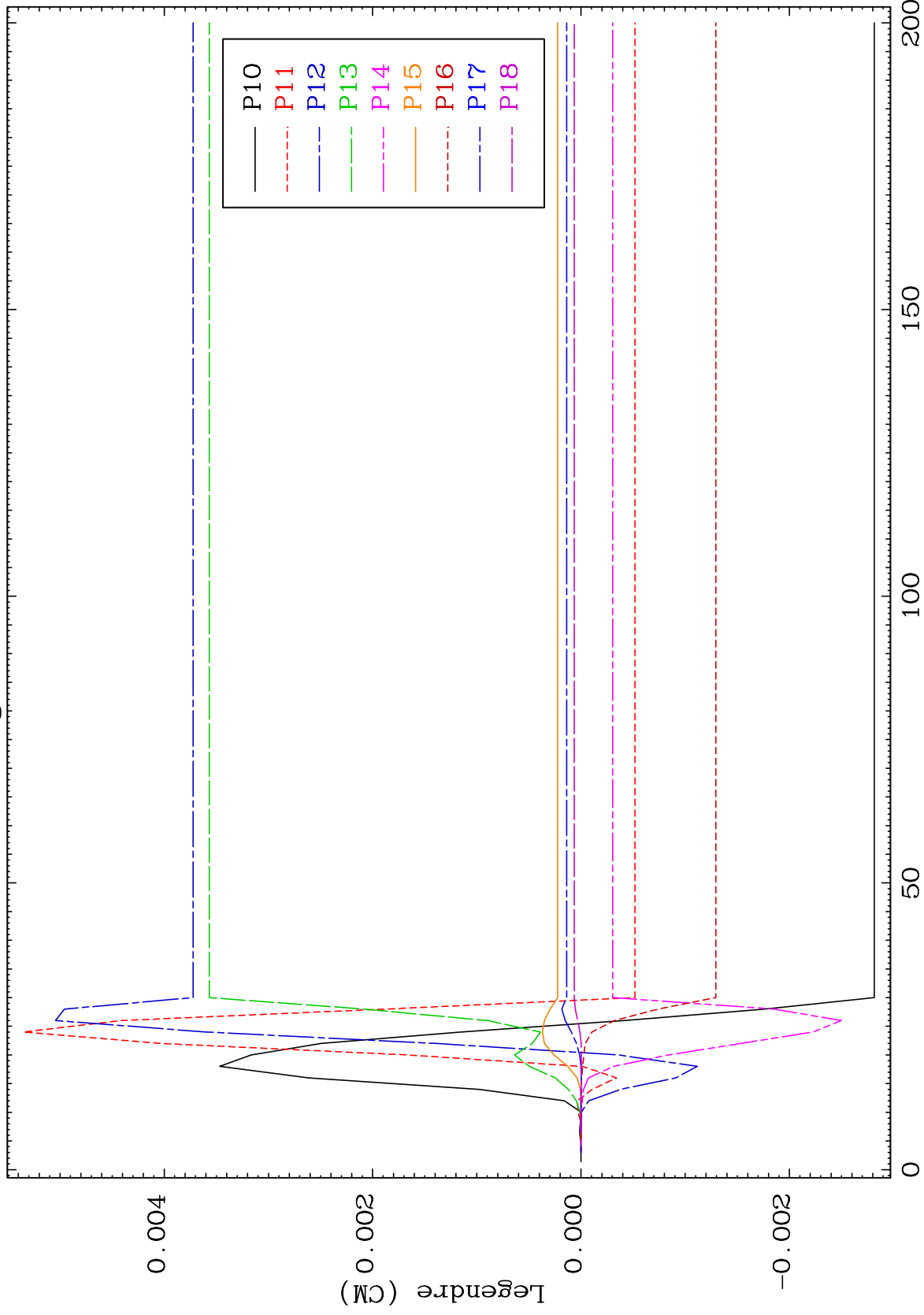
Incident Energy (MeV)

66

MAT 6295

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

63-Eu-141



67

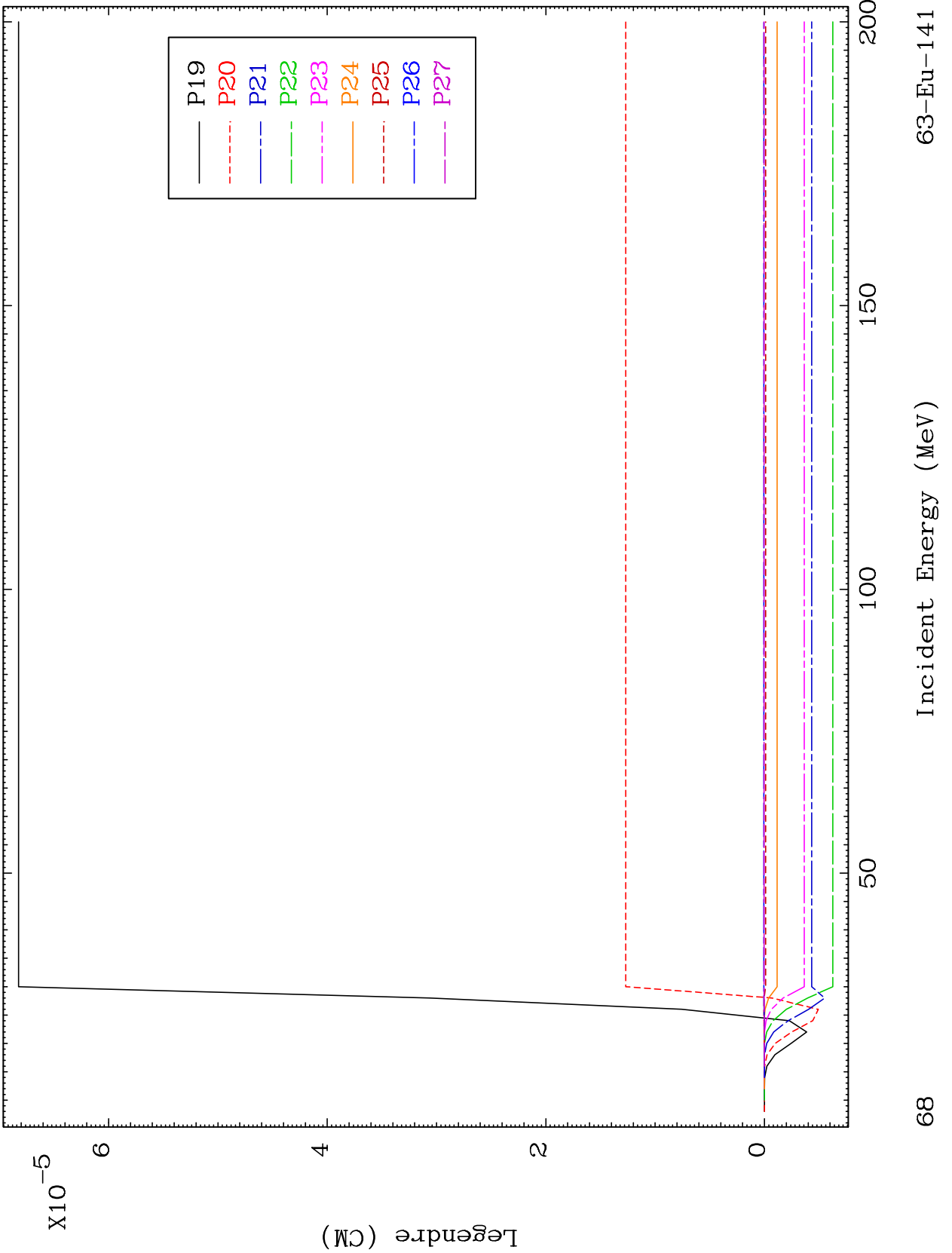
Incident Energy (MeV)

63-Eu-141

MAT 6295

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

63-Eu-141



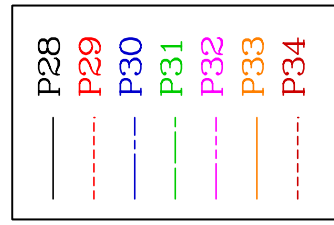
MAT 6295

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

63-Eu-141

$\times 10^{-8}$

Legendre (CM)



200

150

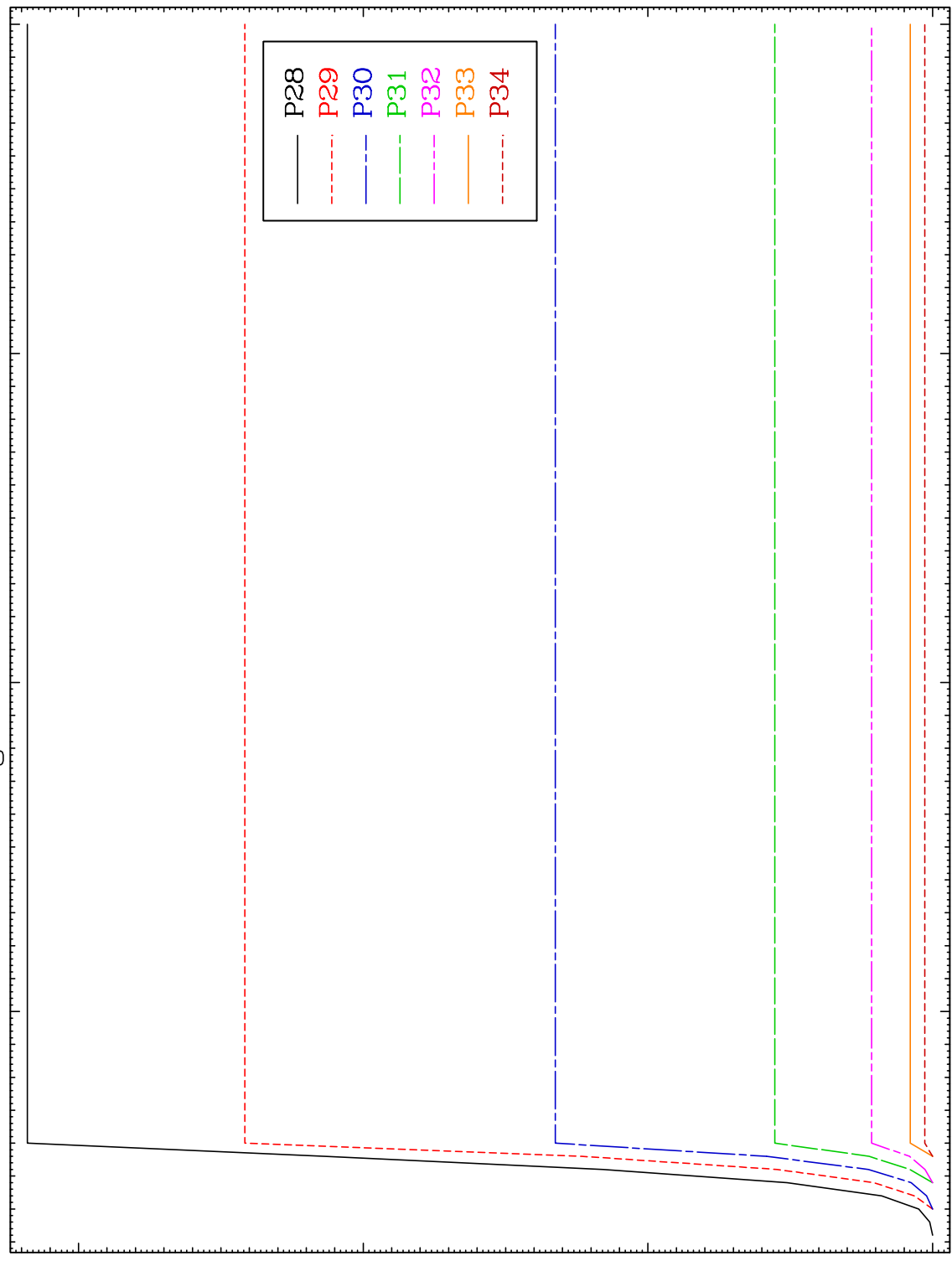
100

50

69

Incident Energy (MeV)

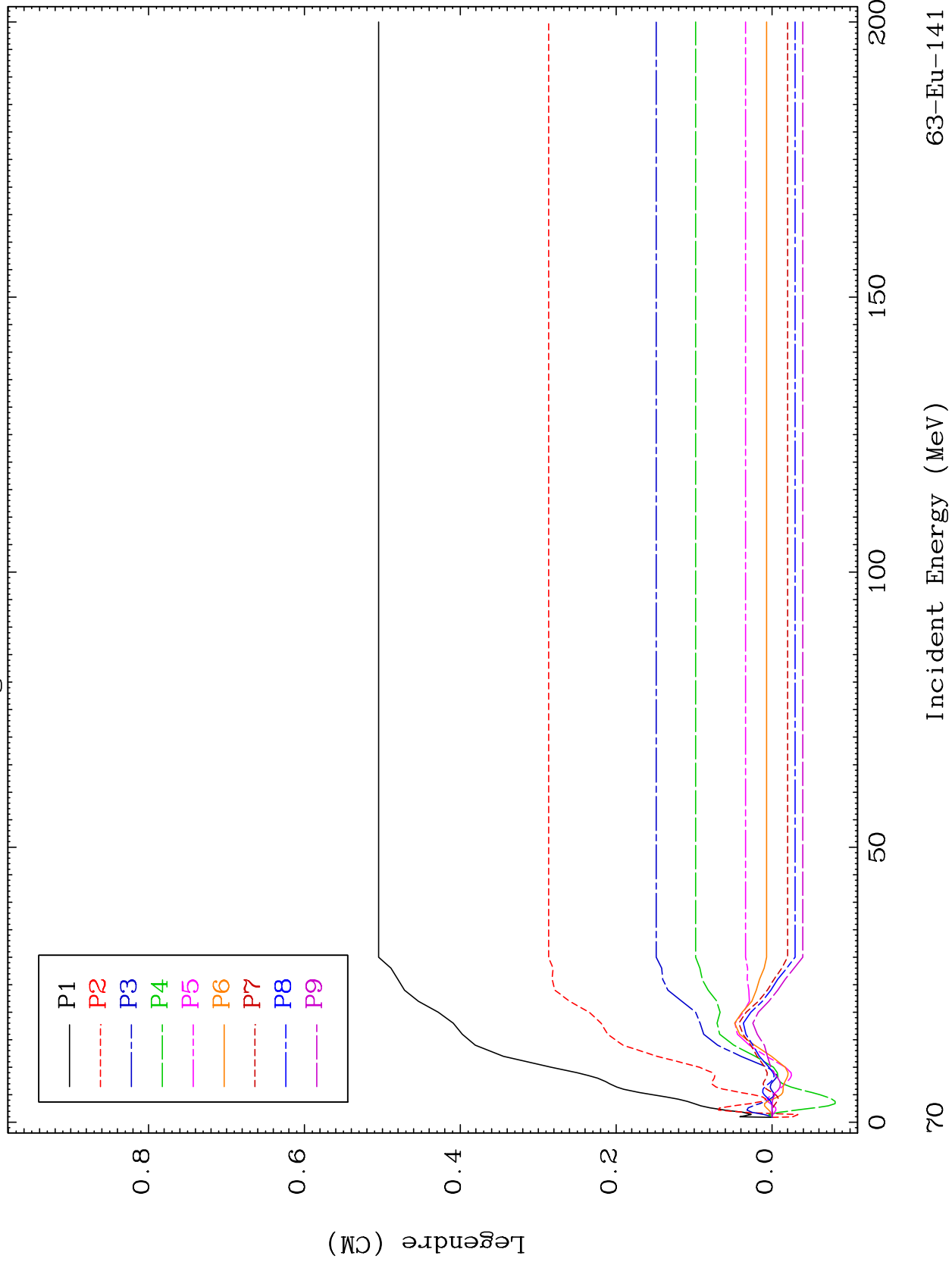
63-Eu-141



MAT 6295

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

63-Eu-141



63-Eu-141

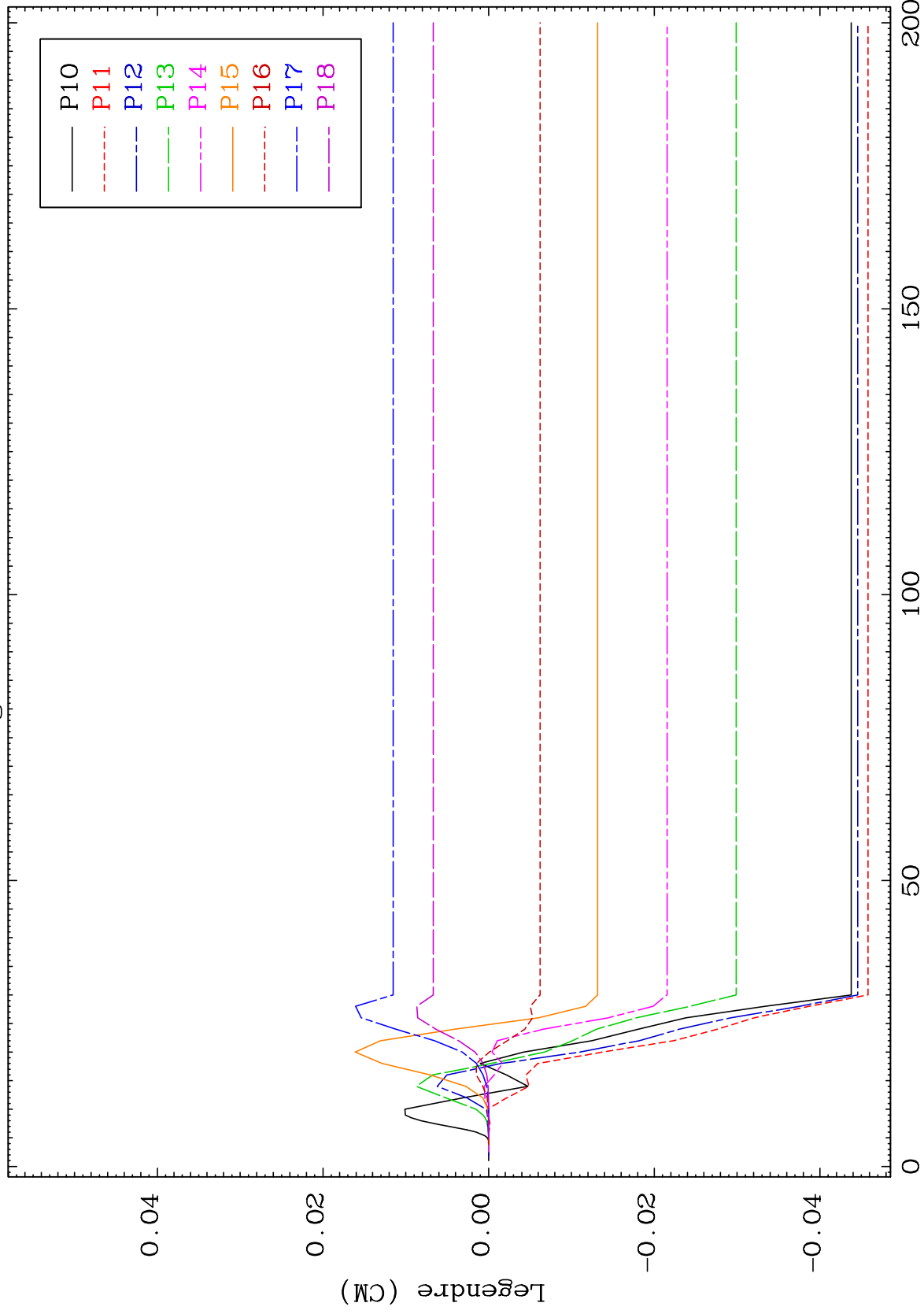
Incident Energy (MeV)

70

MAT 6295

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

63-Eu-141



71

Incident Energy (MeV)

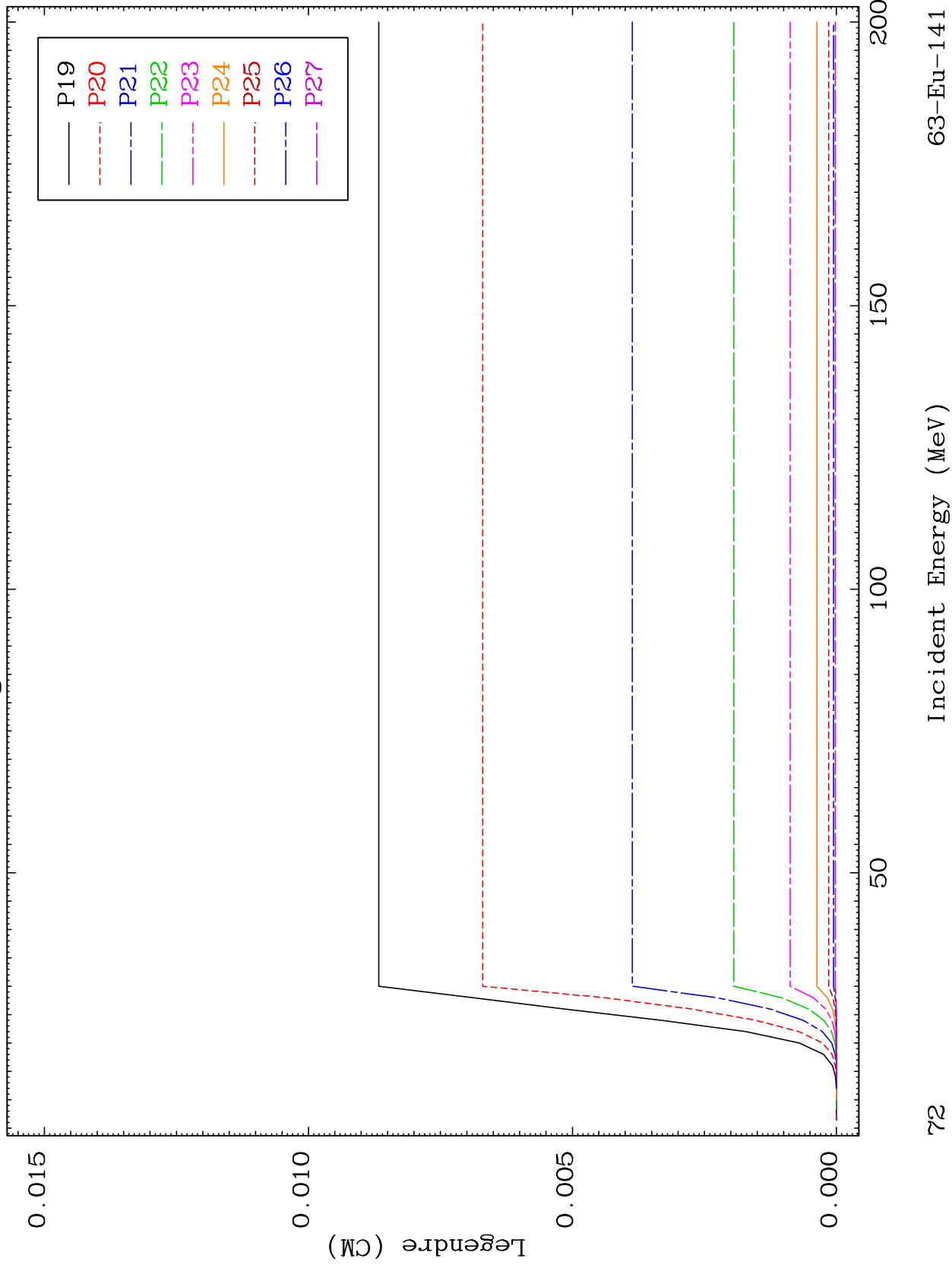
63-Eu-141



MAT 6295

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

63-Eu-141



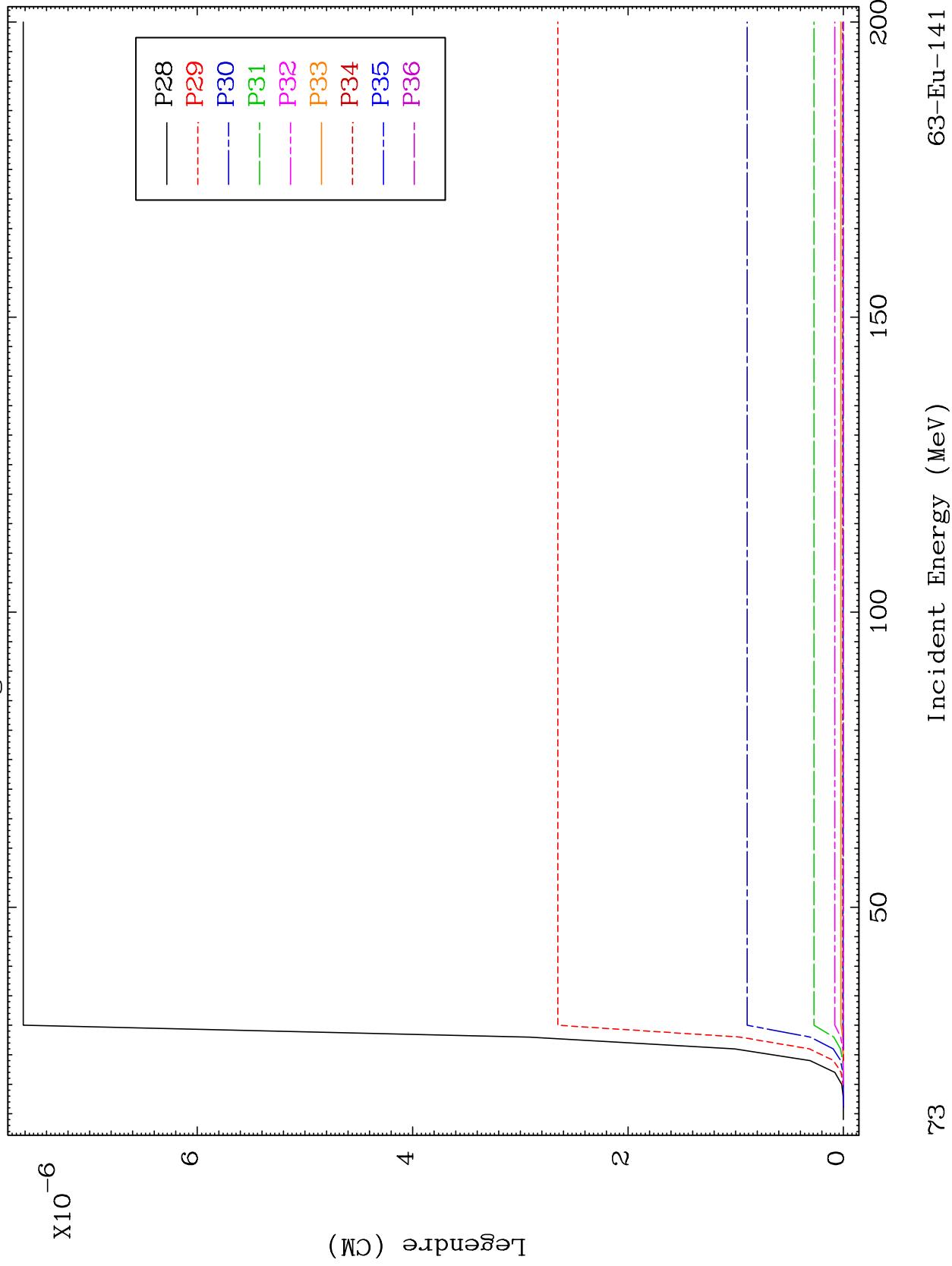
72

63-Eu-141

MAT 6295

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

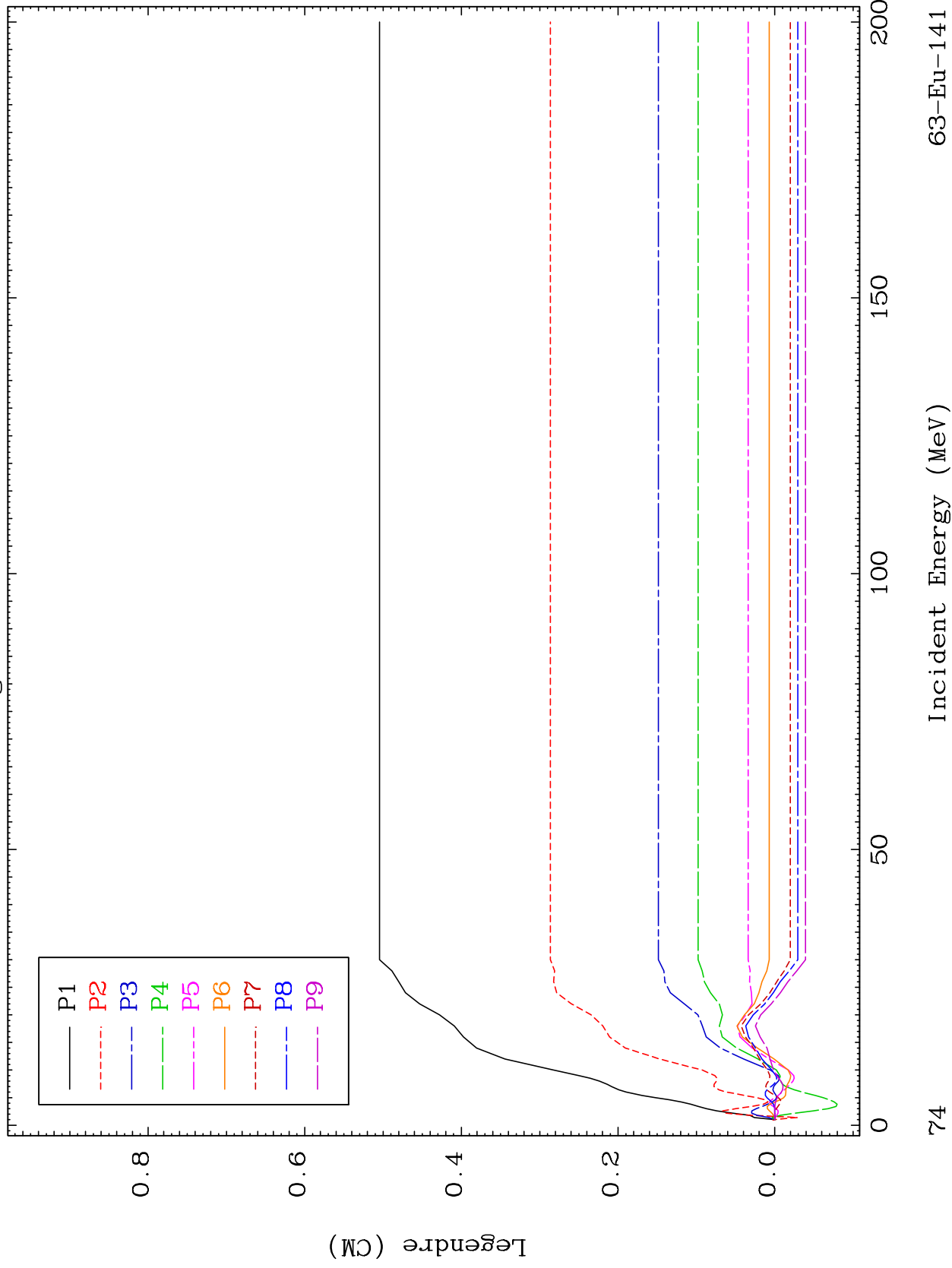
63-Eu-141



MAT 6295

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

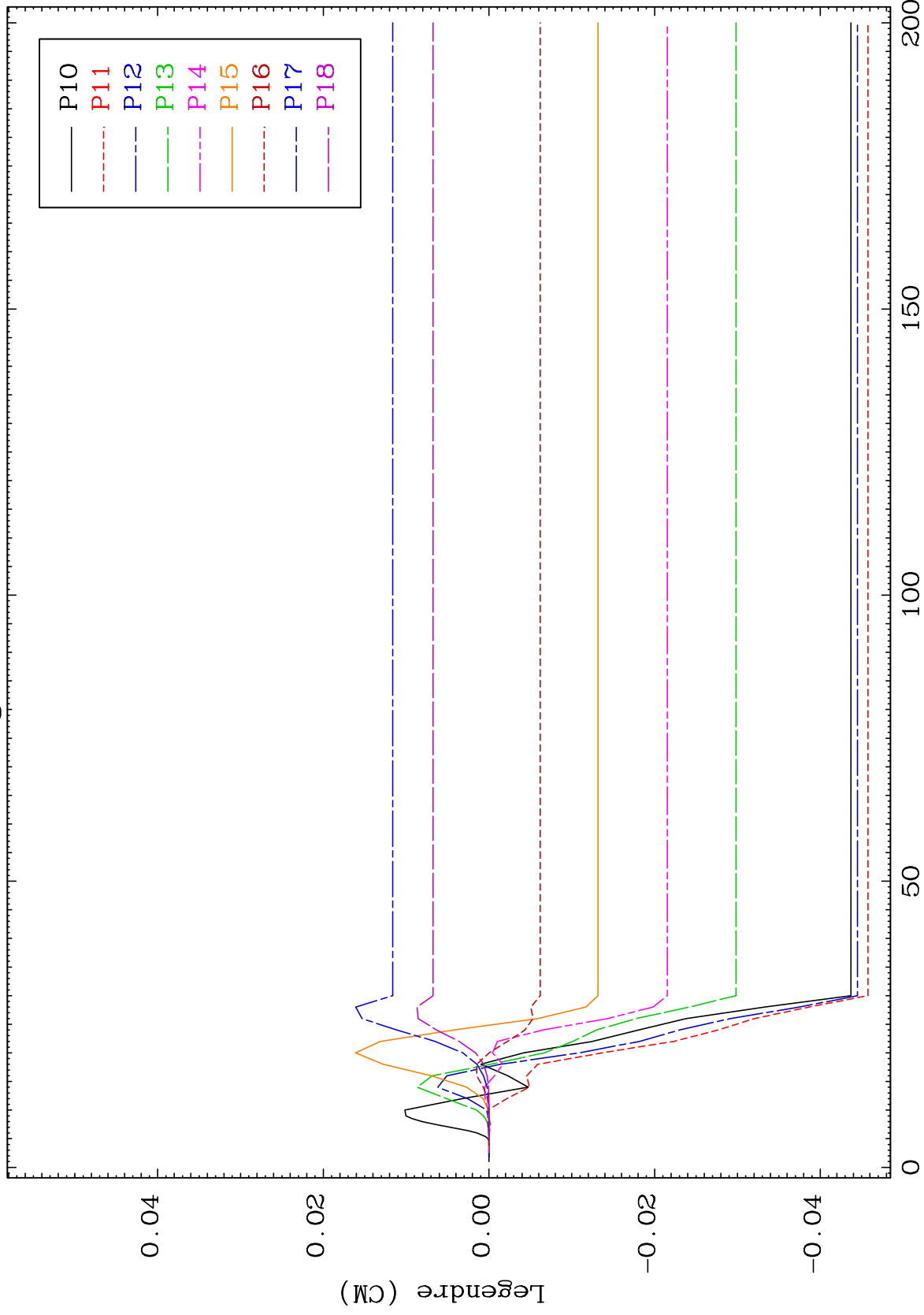
63-Eu-141



MAT 6295

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

63-Eu-141



75

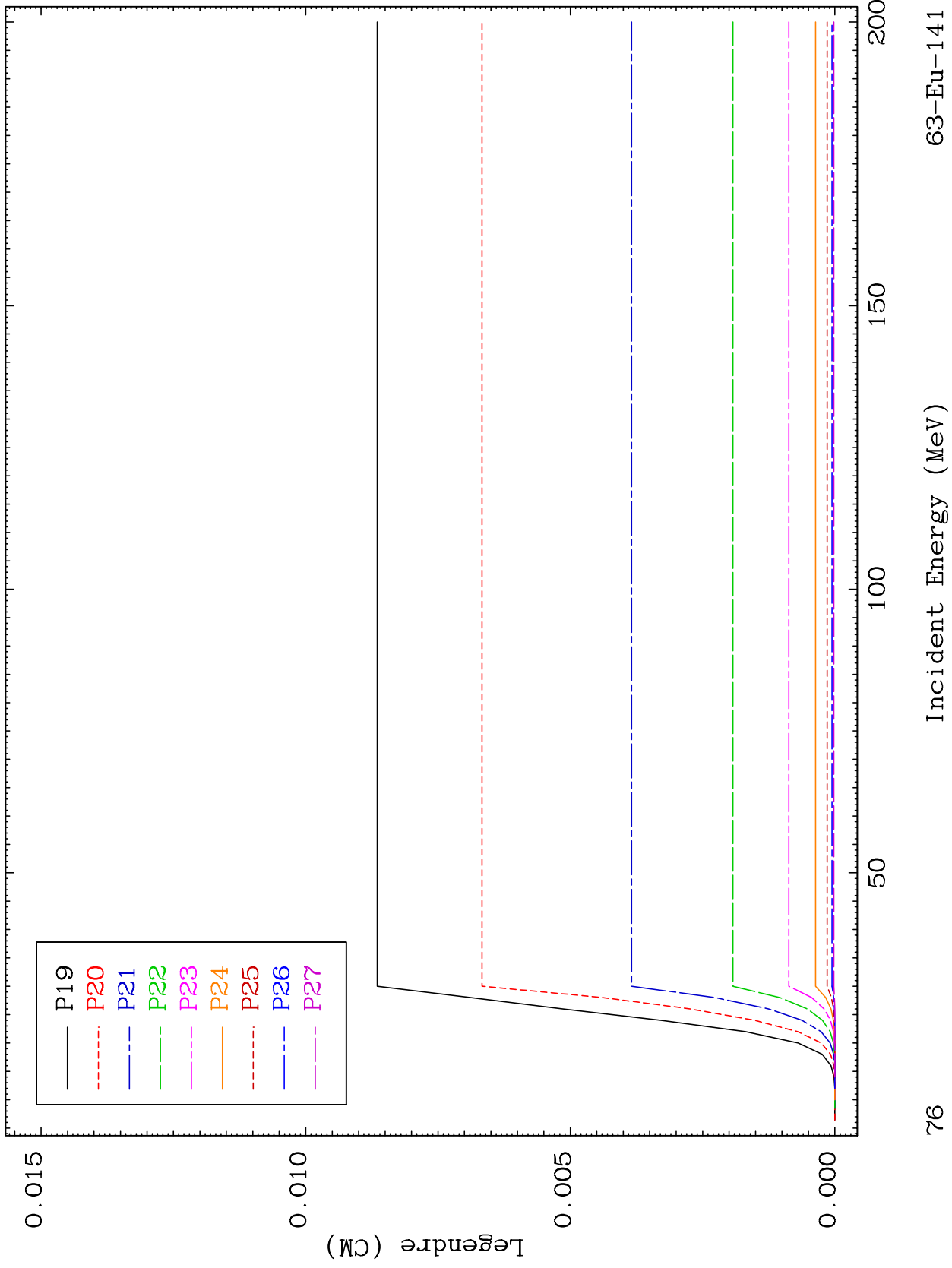
Incident Energy (MeV)

63-Eu-141

MAT 6295

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

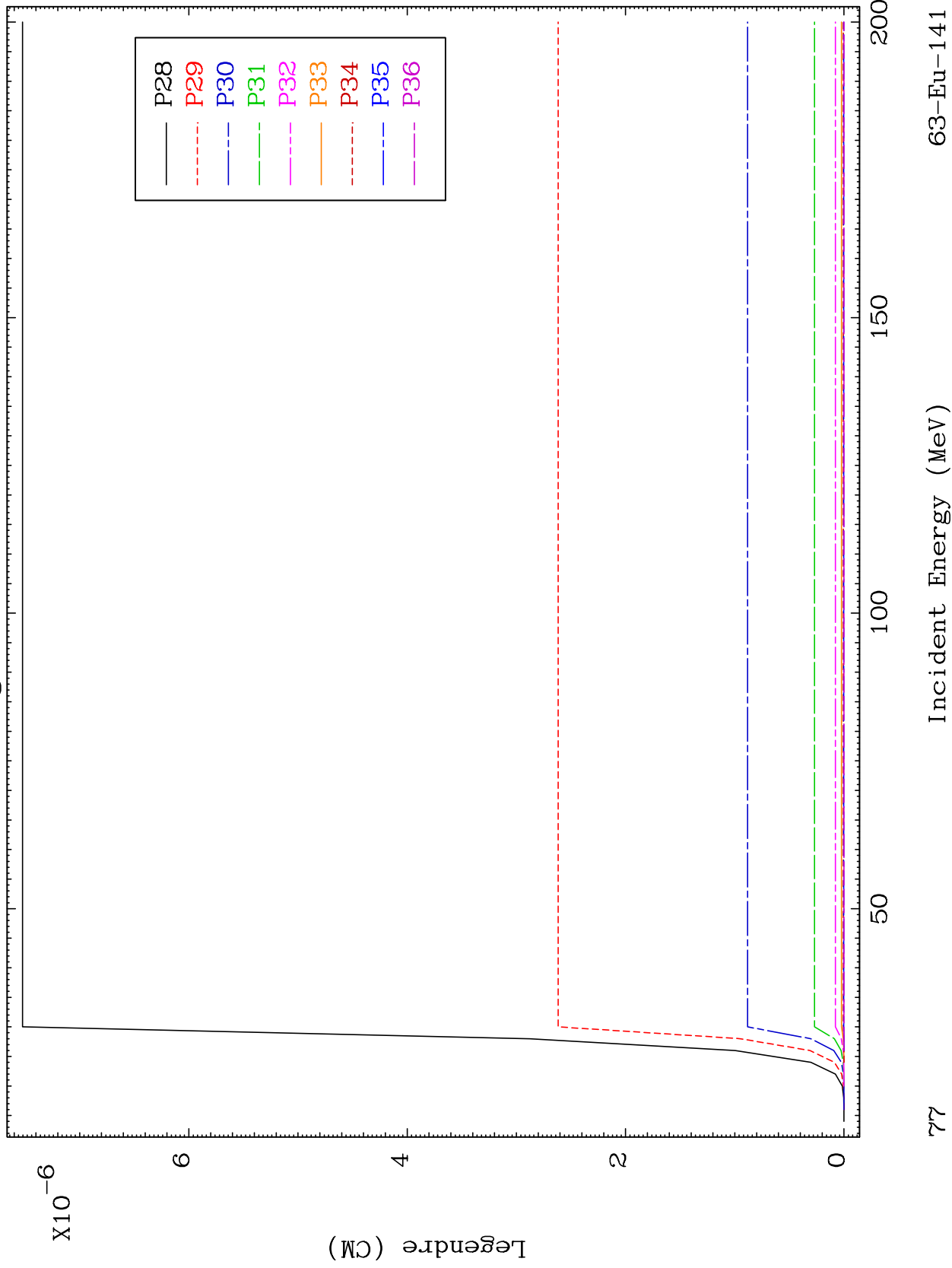
63-Eu-141



MAT 6295

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

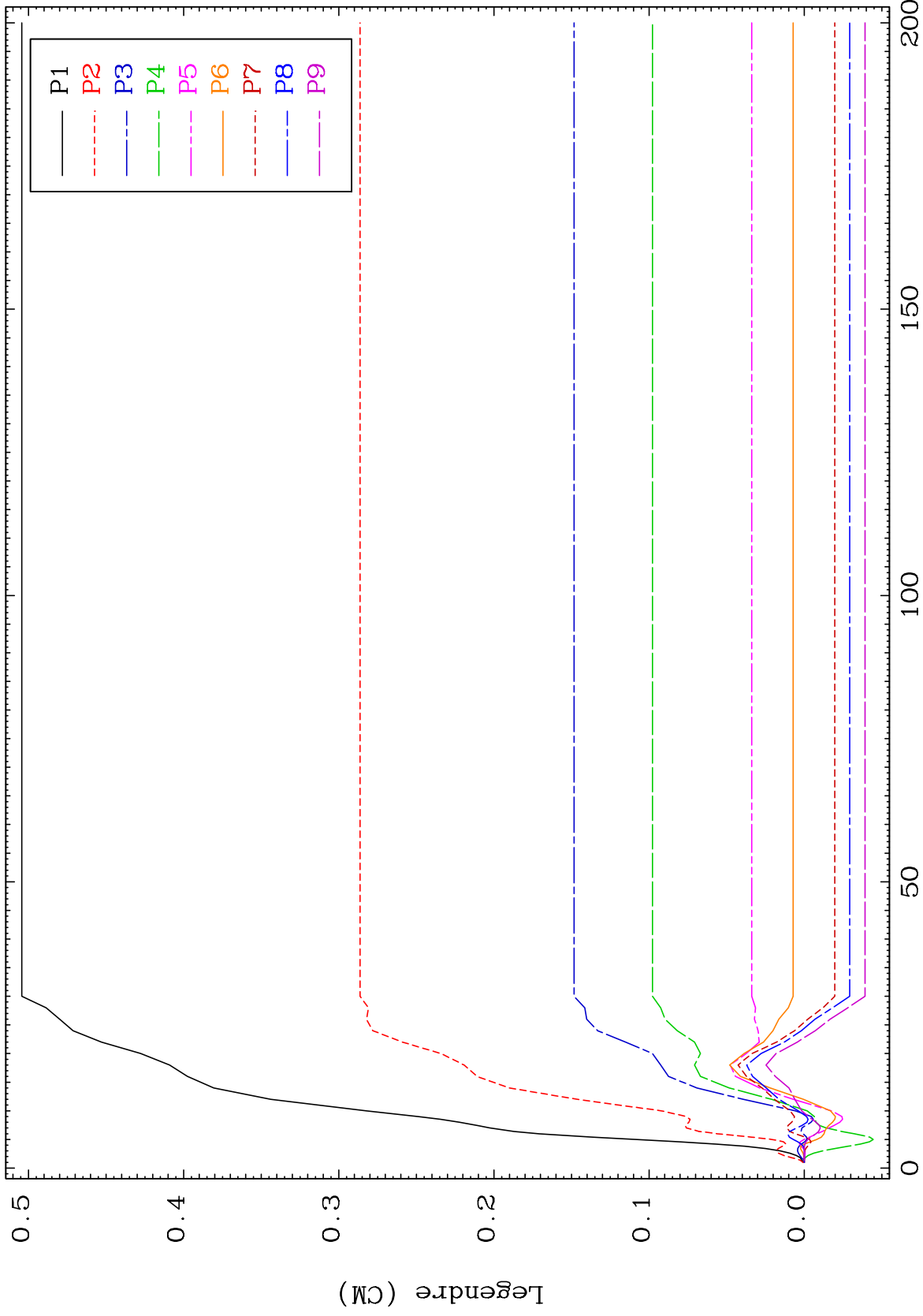
63-Eu-141



MAT 6295

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

63-Eu-141



78

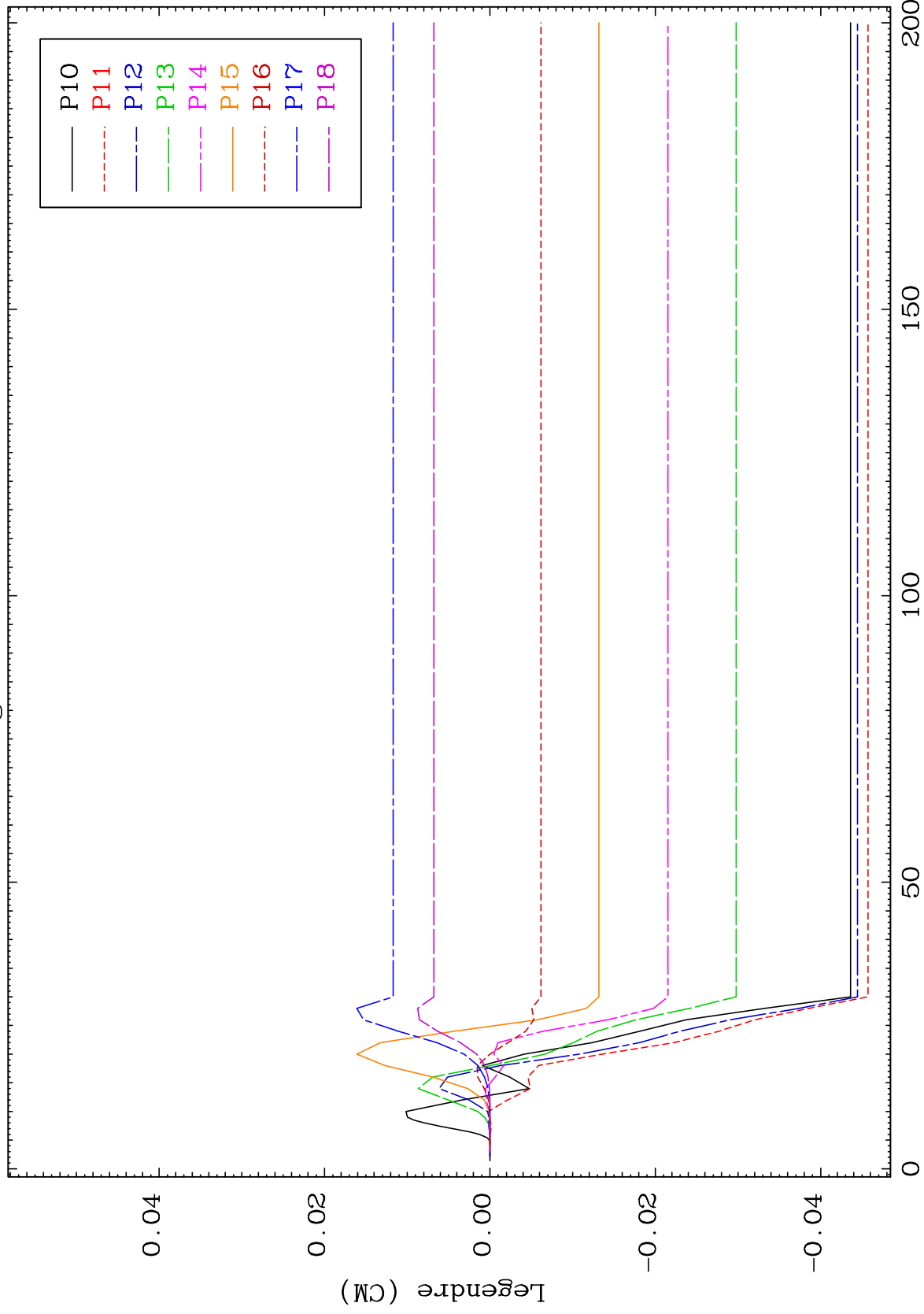
Incident Energy (MeV)

63-Eu-141

MAT 6295

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

63-Eu-141



79

Incident Energy (MeV)

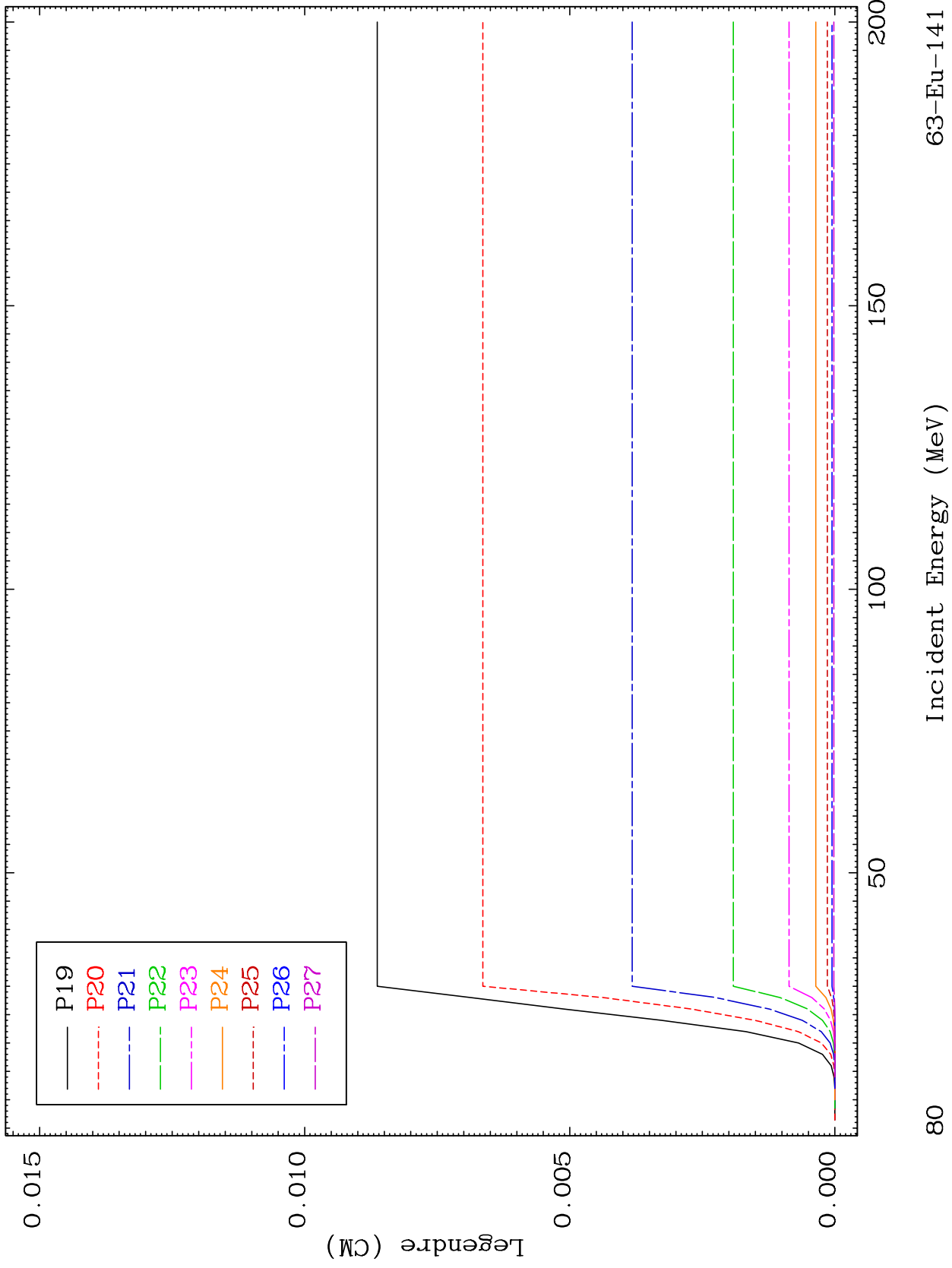
63-Eu-141



MAT 6295

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

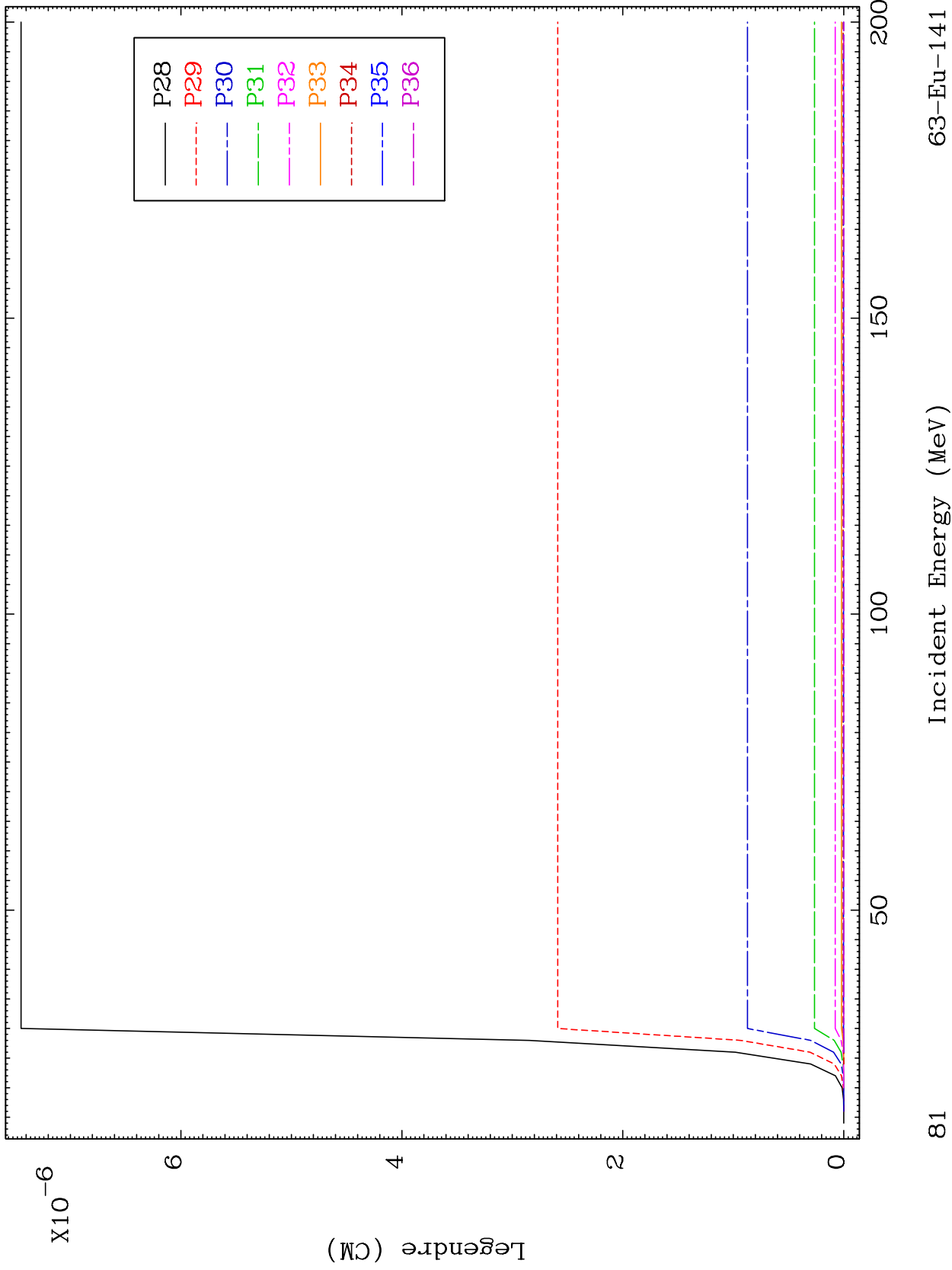
63-Eu-141



MAT 6295

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

63-Eu-141



81

Incident Energy (MeV)

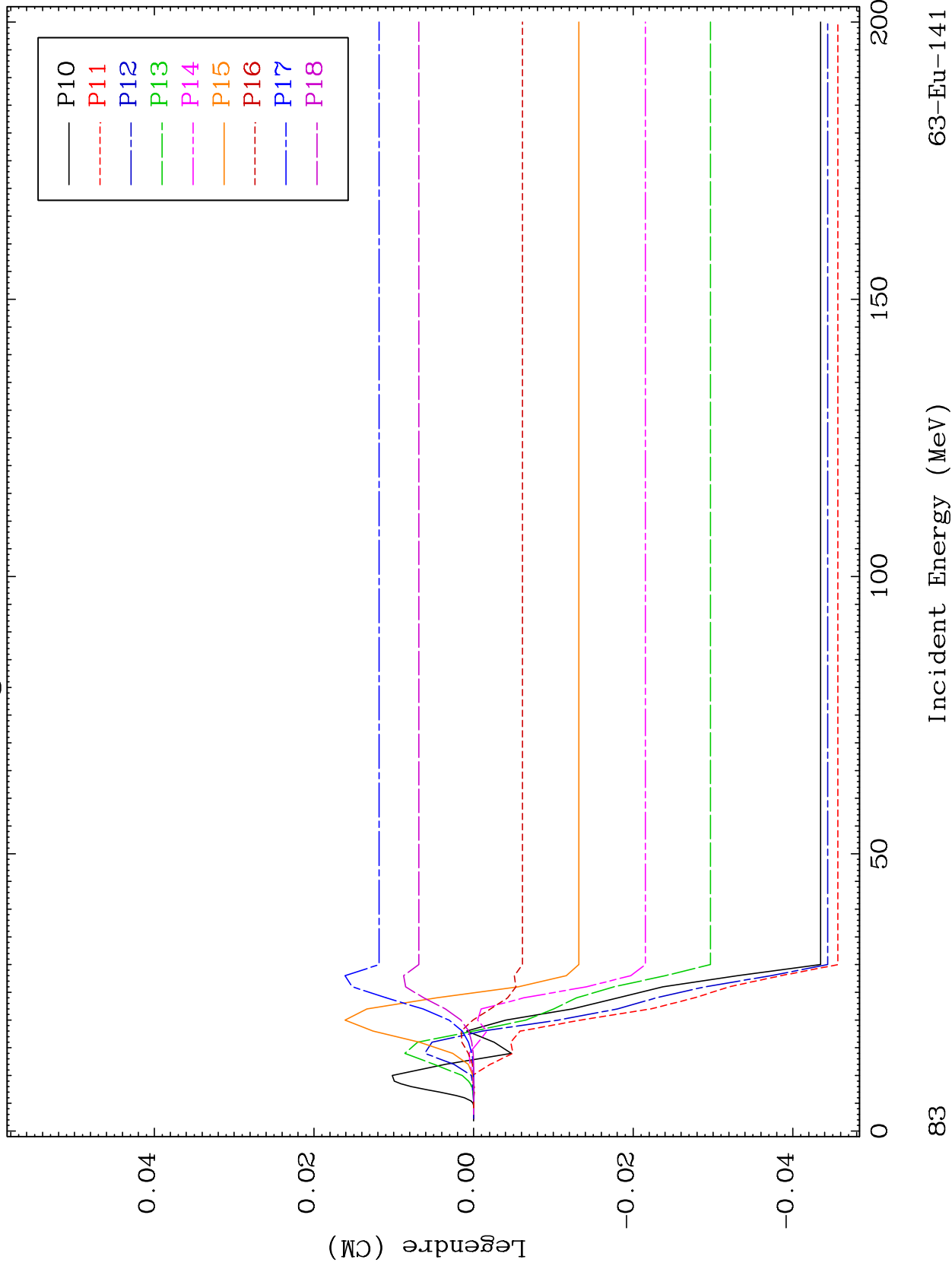
63-Eu-141



MAT 6295

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

63-Eu-141



83

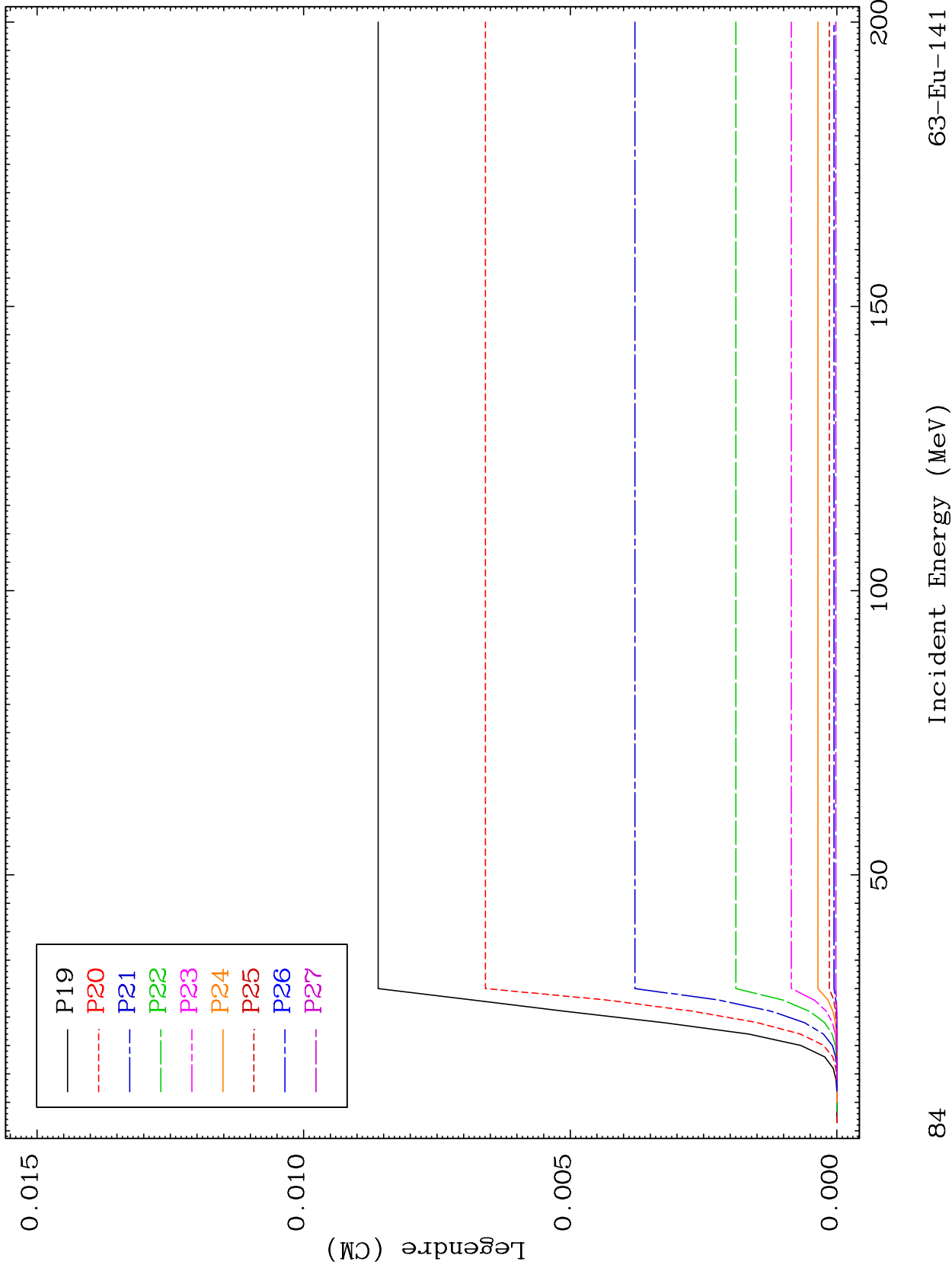
Incident Energy (MeV)

63-Eu-141

MAT 6295

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

63-Eu-141



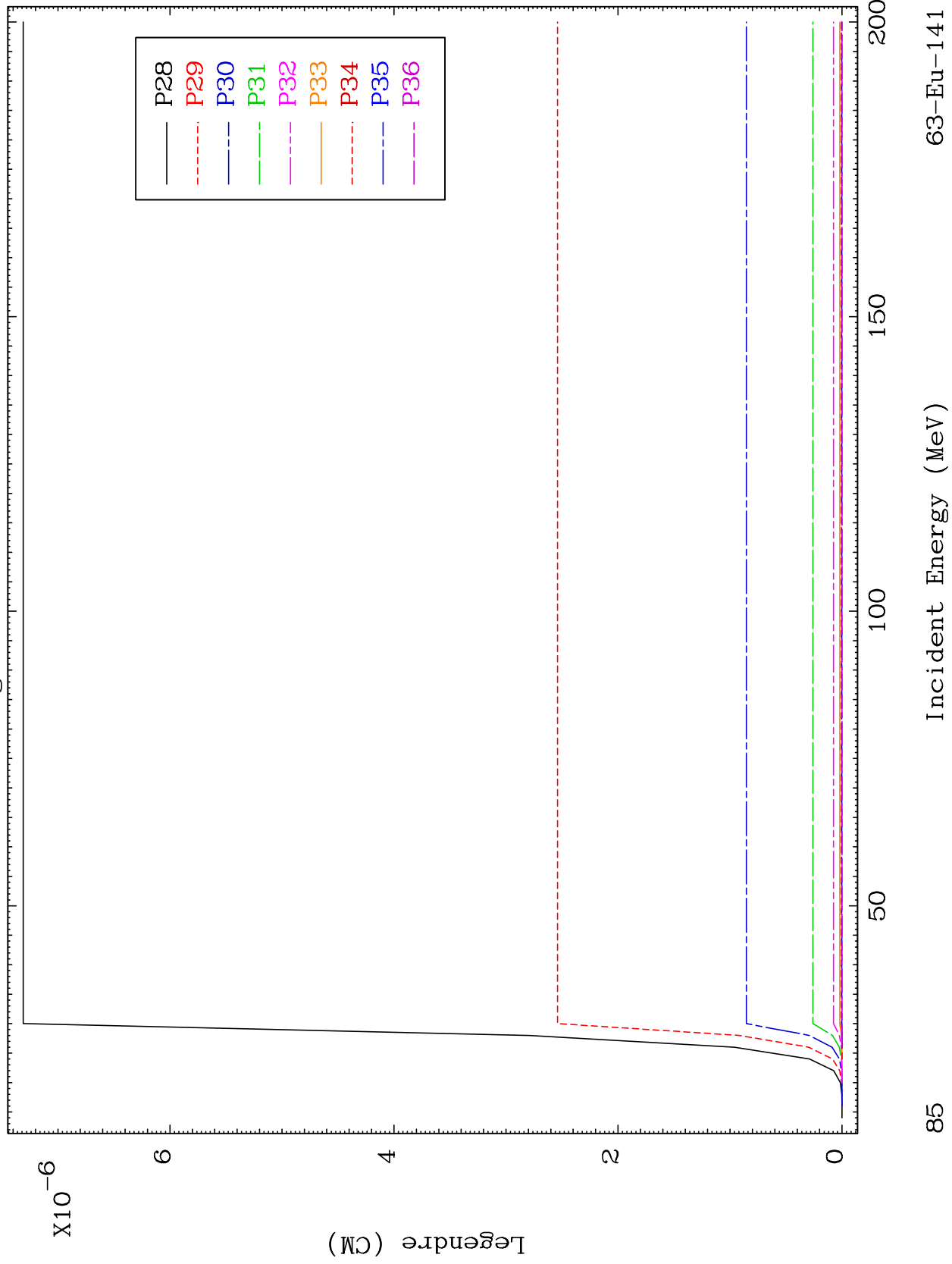
84

63-Eu-141

MAT 6295

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

63-Eu-141



85

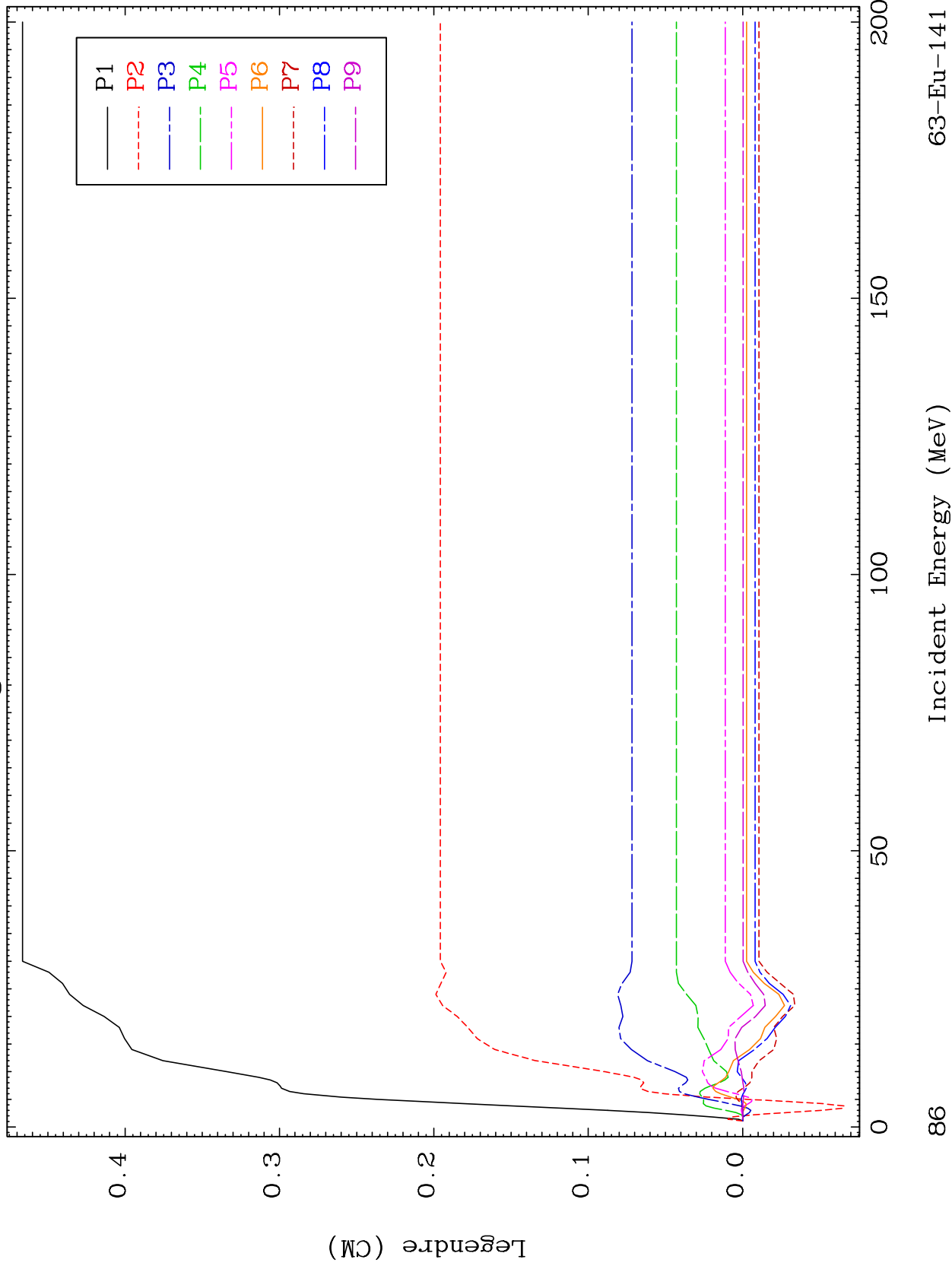
Incident Energy (MeV)

63-Eu-141

MAT 6295

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

63-Eu-141



63-Eu-141

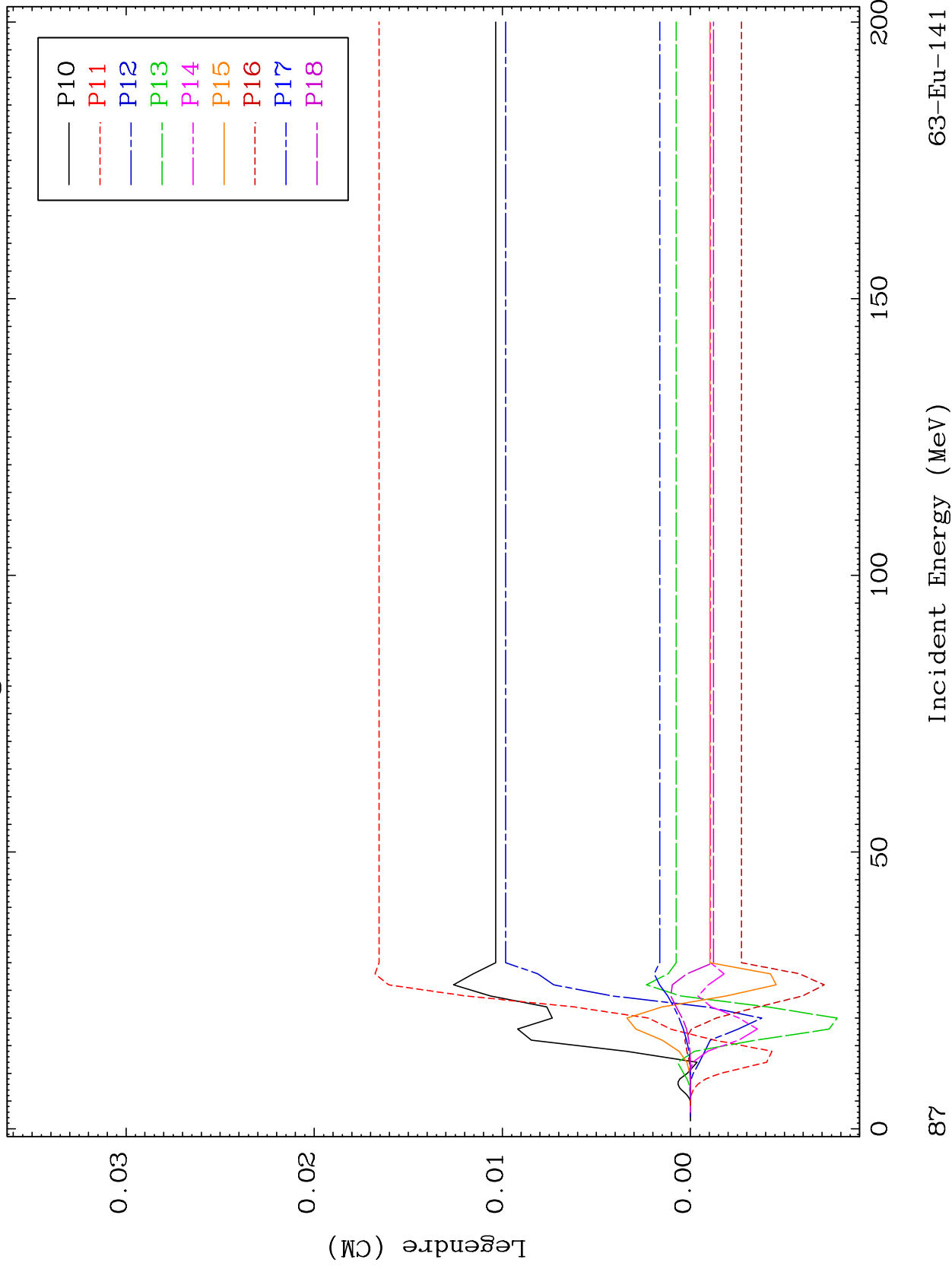
Incident Energy (MeV)

86

MAT 6295

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

63-Eu-141

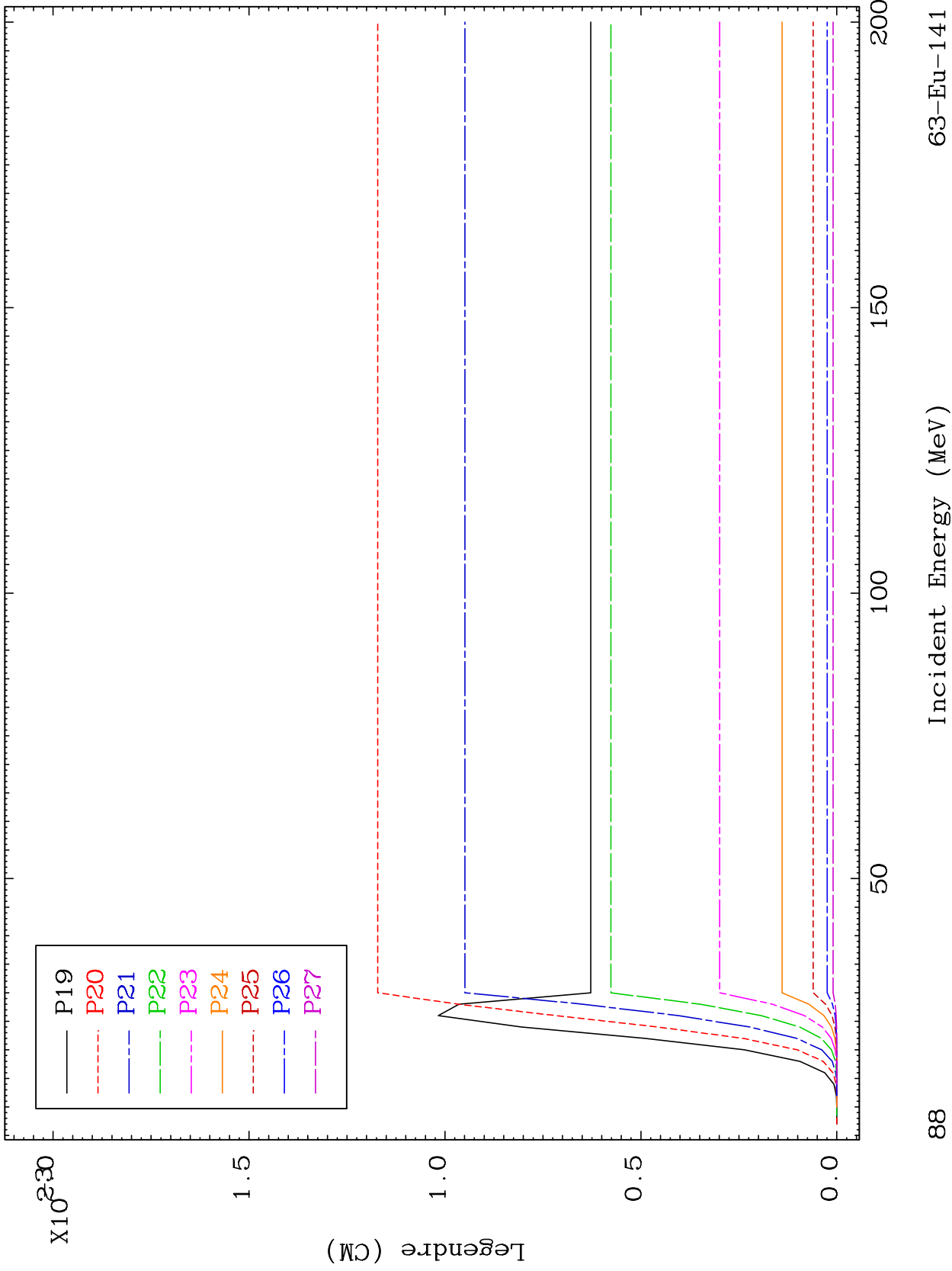


63-Eu-141

Incident Energy (MeV)

87

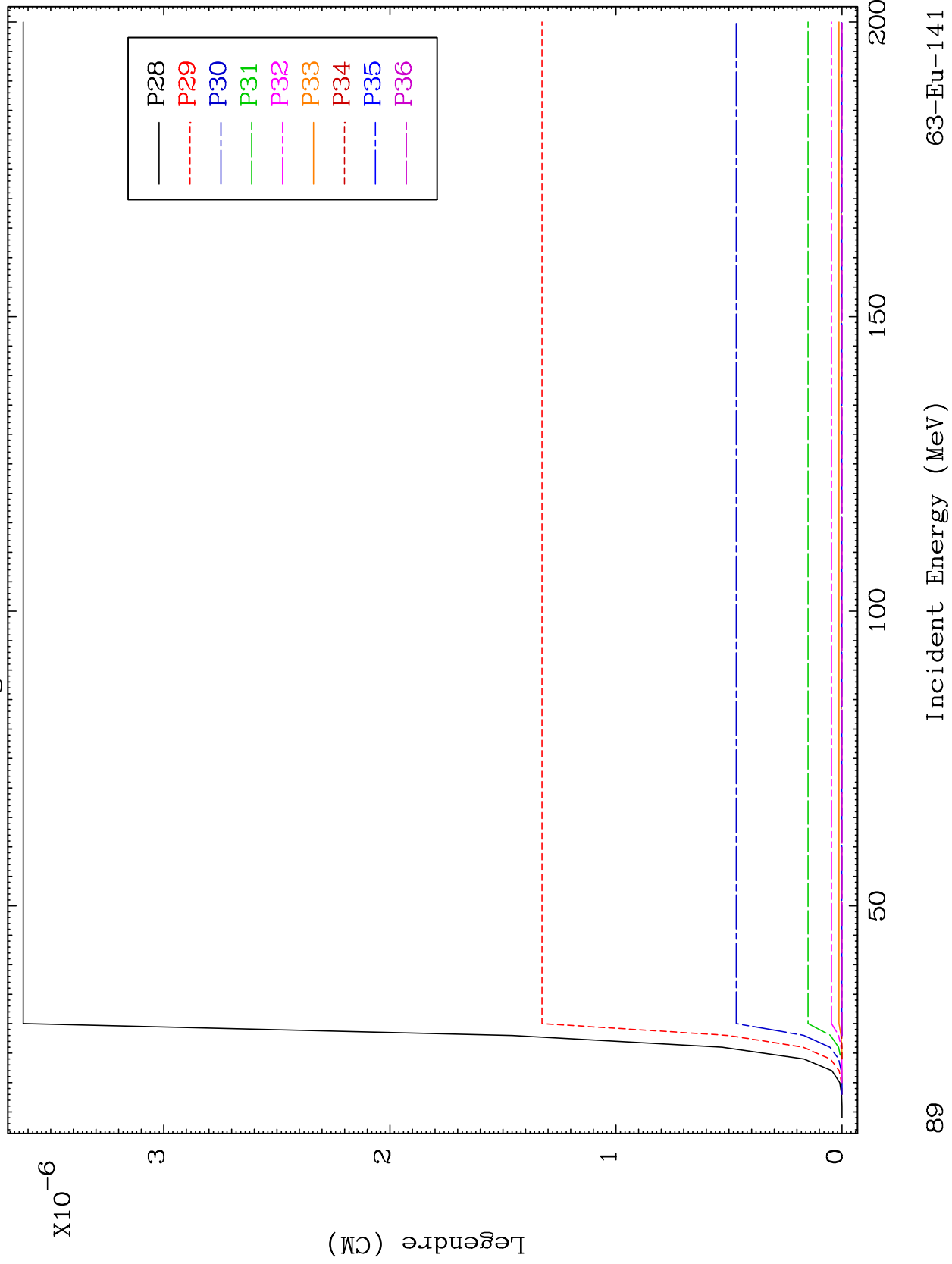




MAT 6295

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

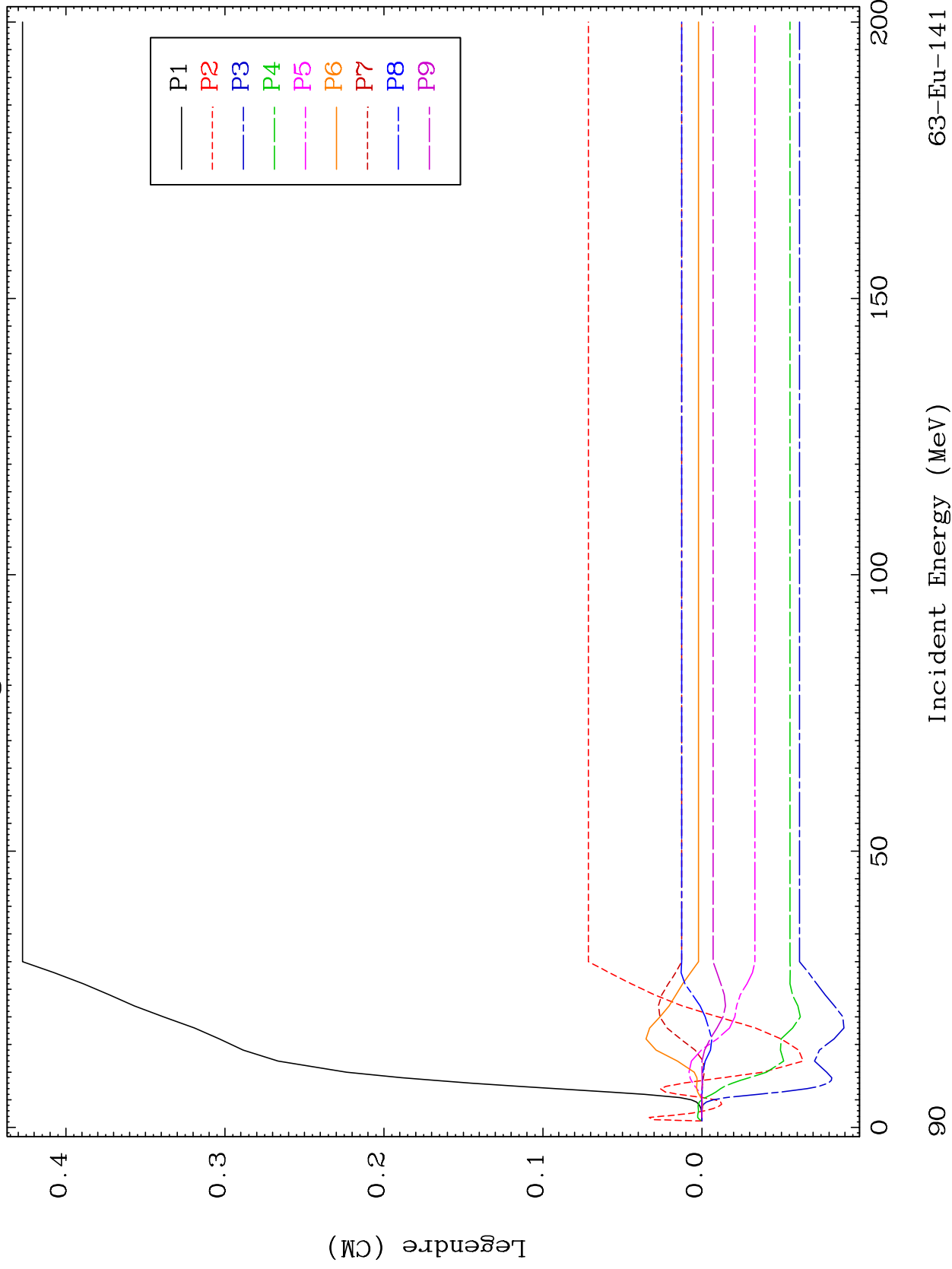
63-Eu-141



MAT 6295

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

63-Eu-141

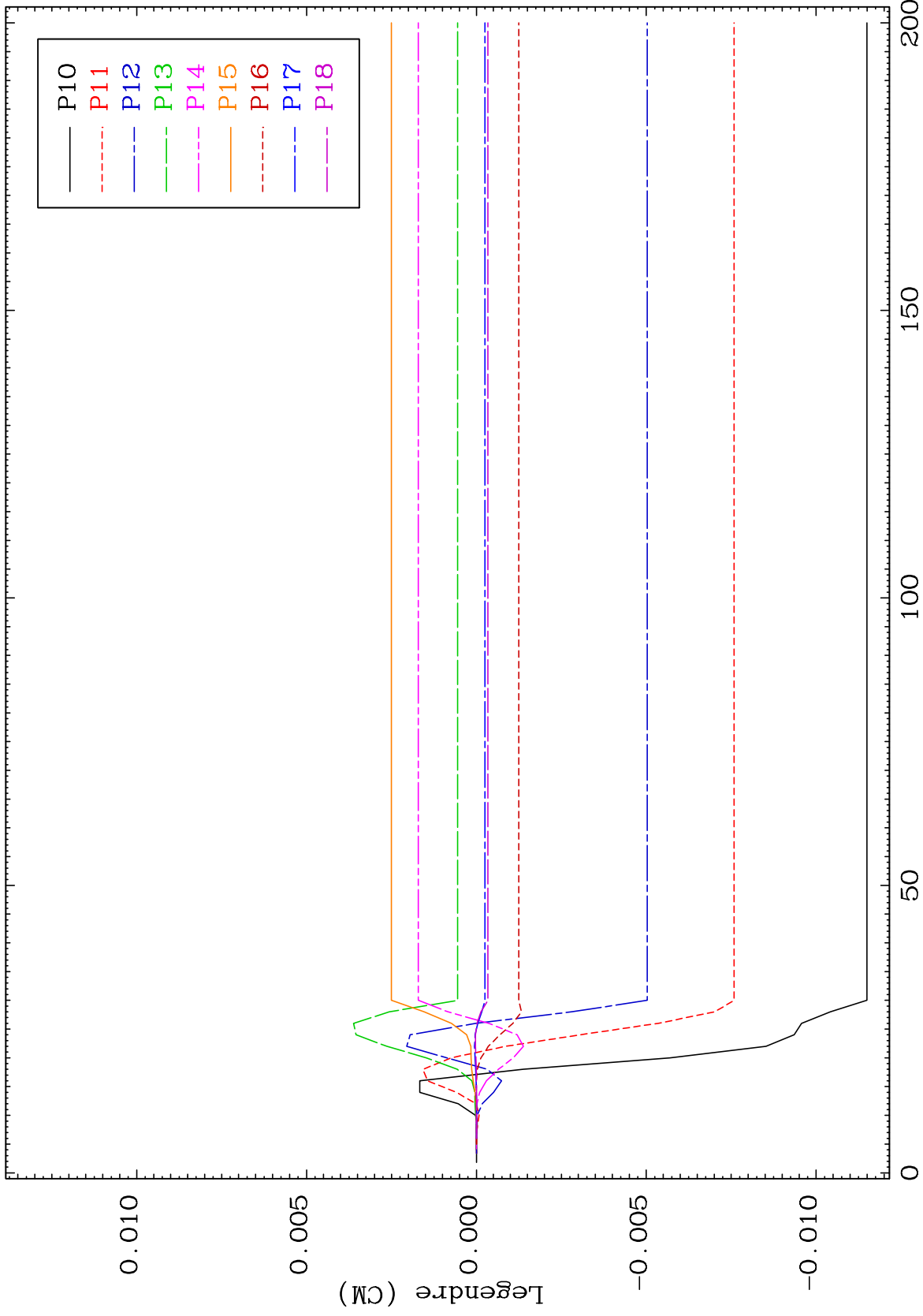


63-Eu-141

MAT 6295

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

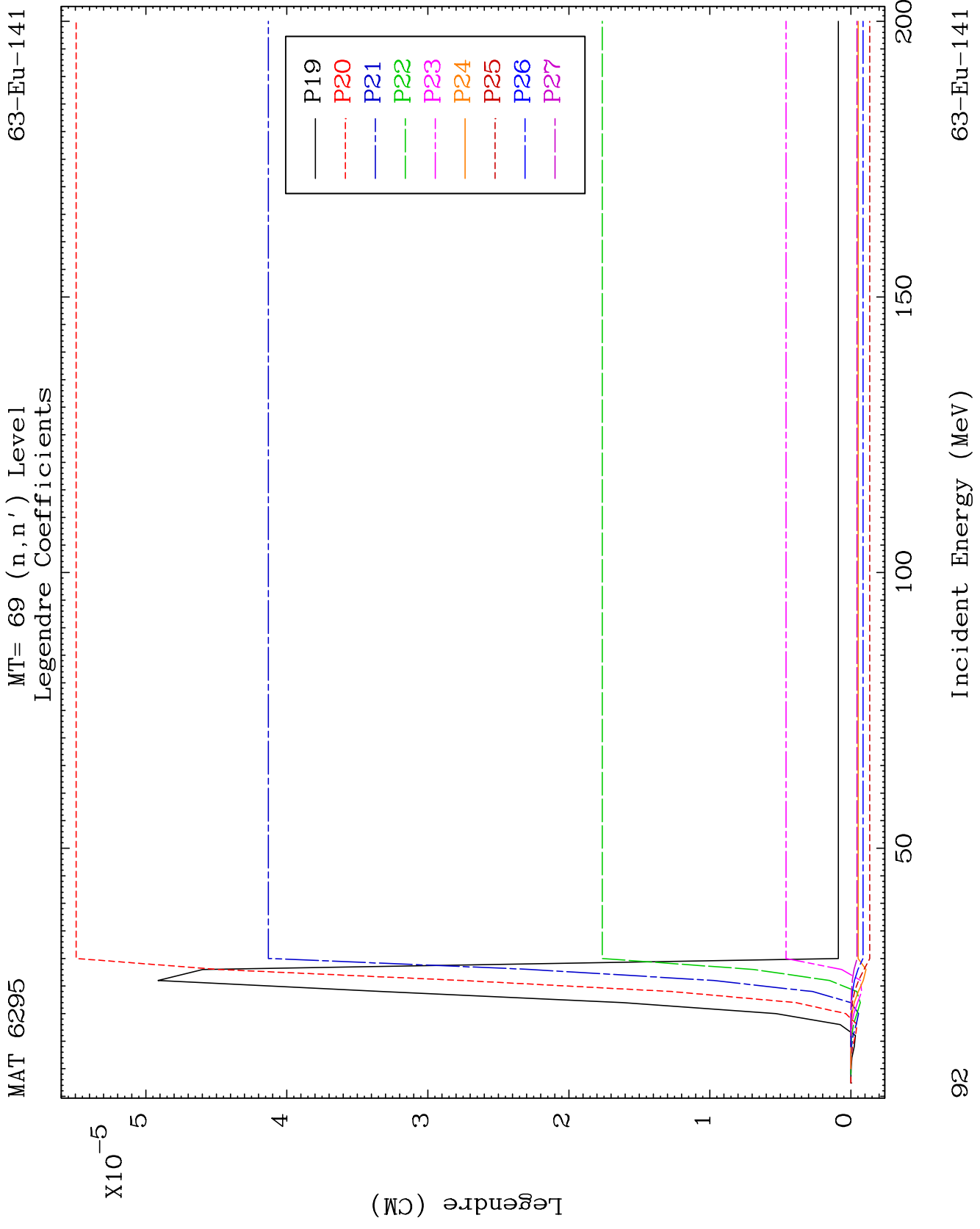
63-Eu-141

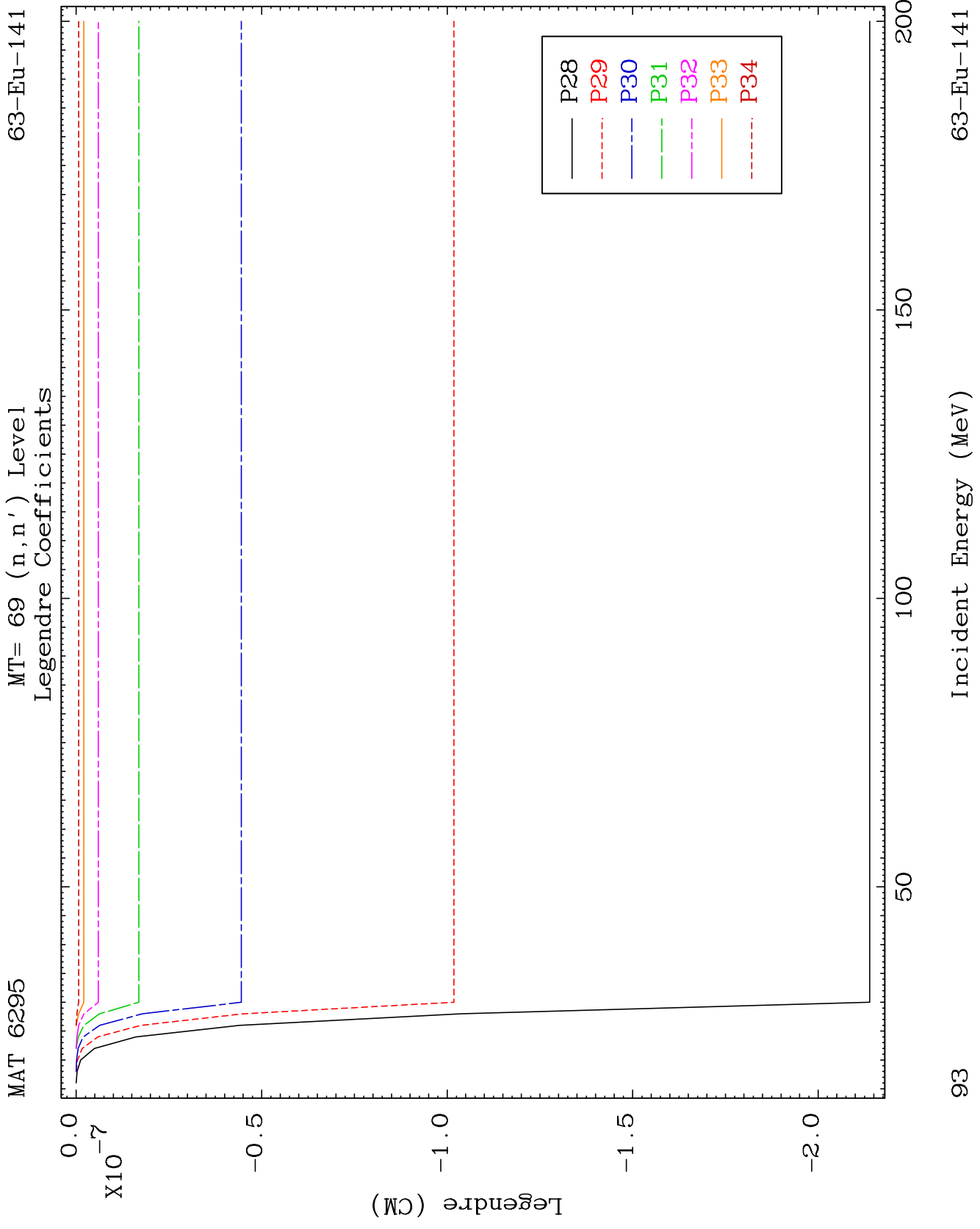


91

Incident Energy (MeV)

63-Eu-141

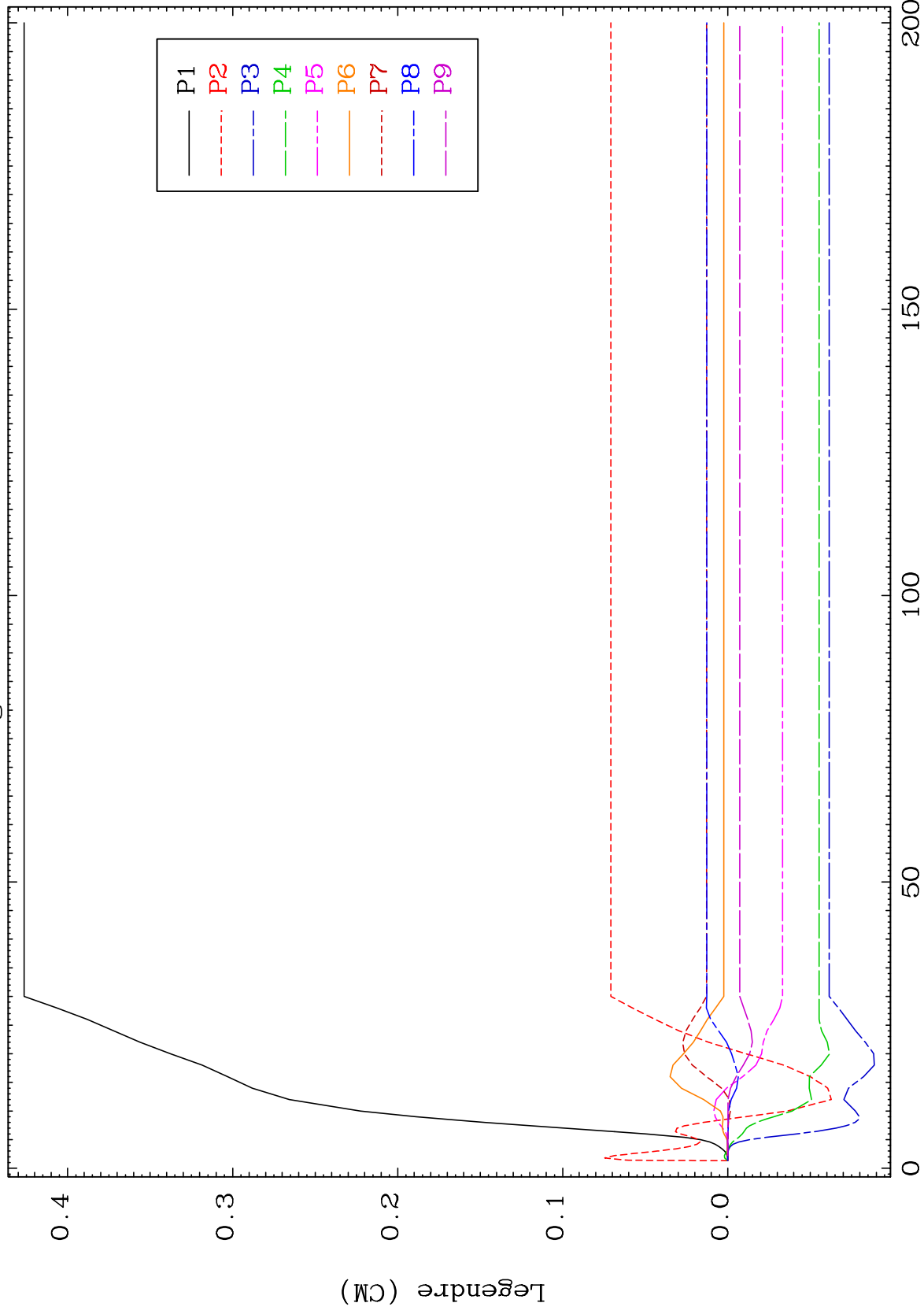




MAT 6295

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

63-Eu-141



94

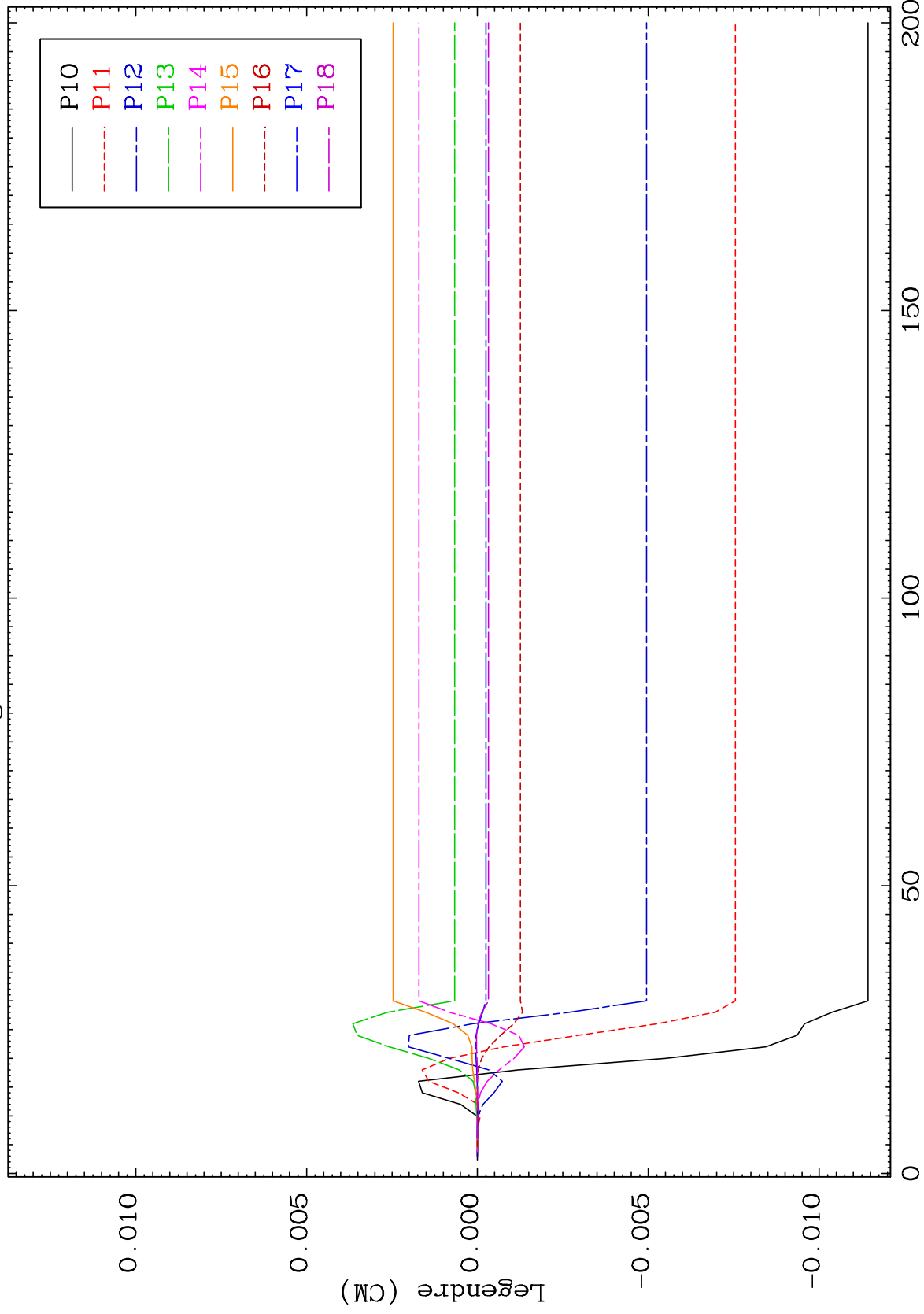
Incident Energy (MeV)

63-Eu-141

MAT 6295

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

63-Eu-141

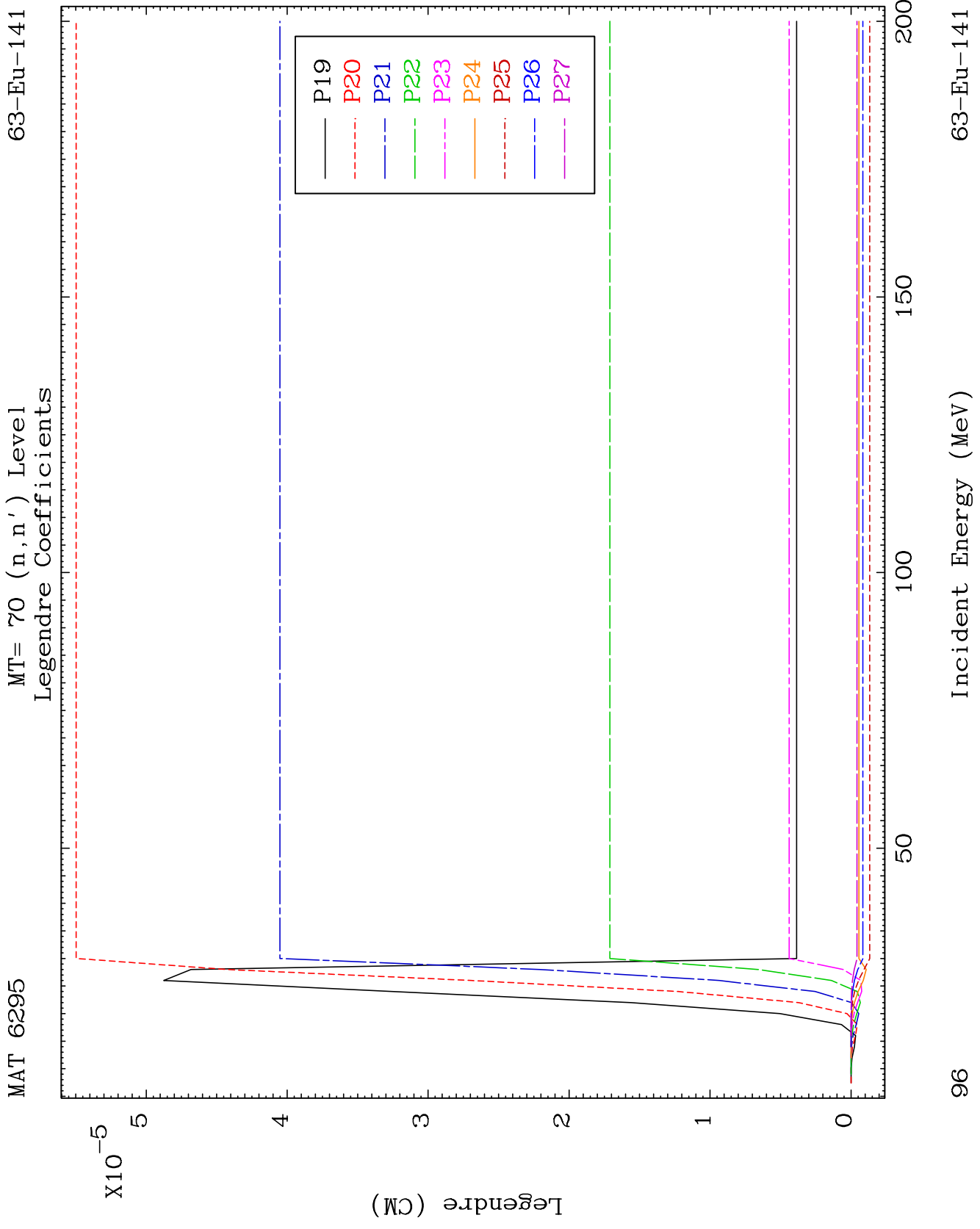


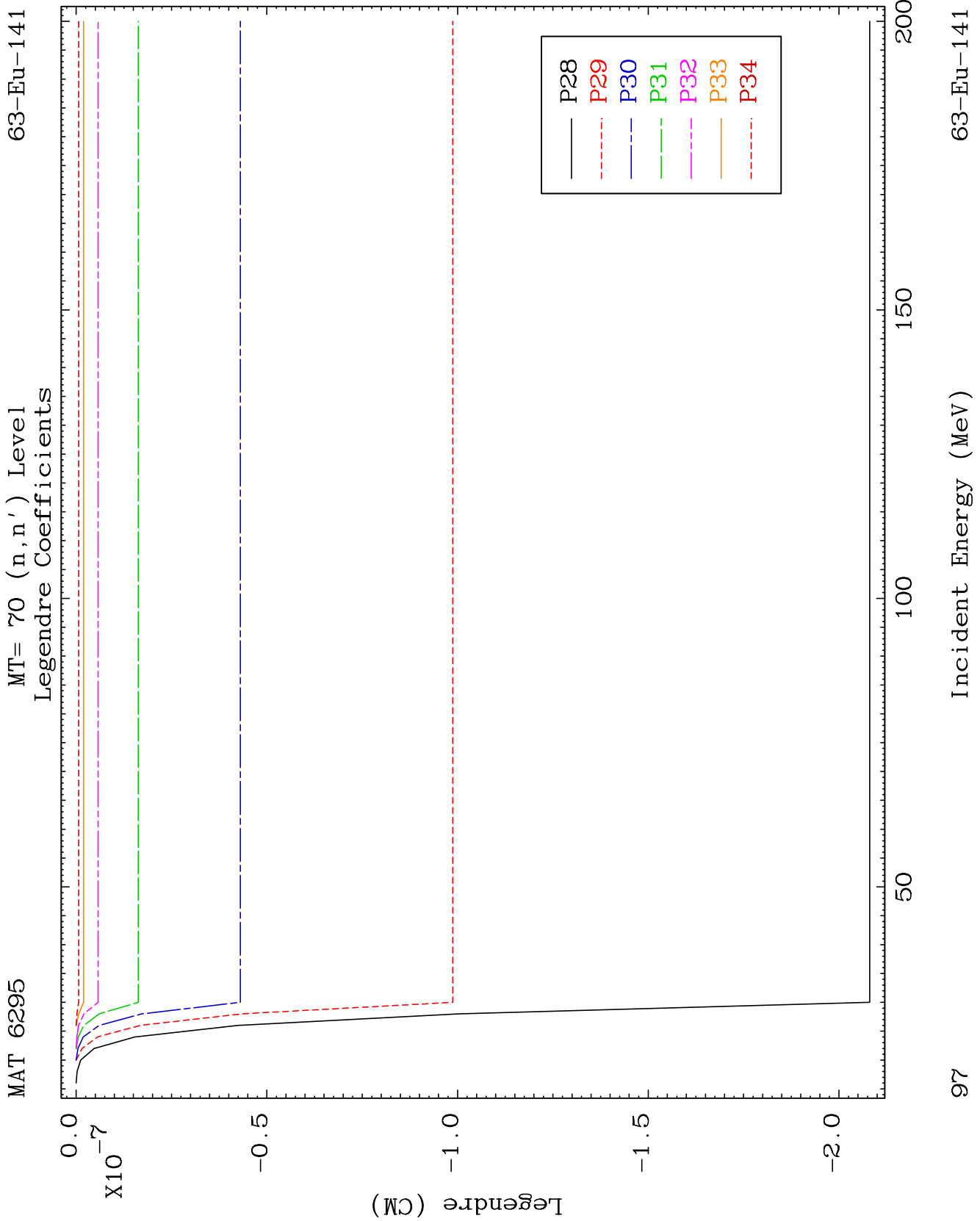
95

Incident Energy (MeV)

63-Eu-141



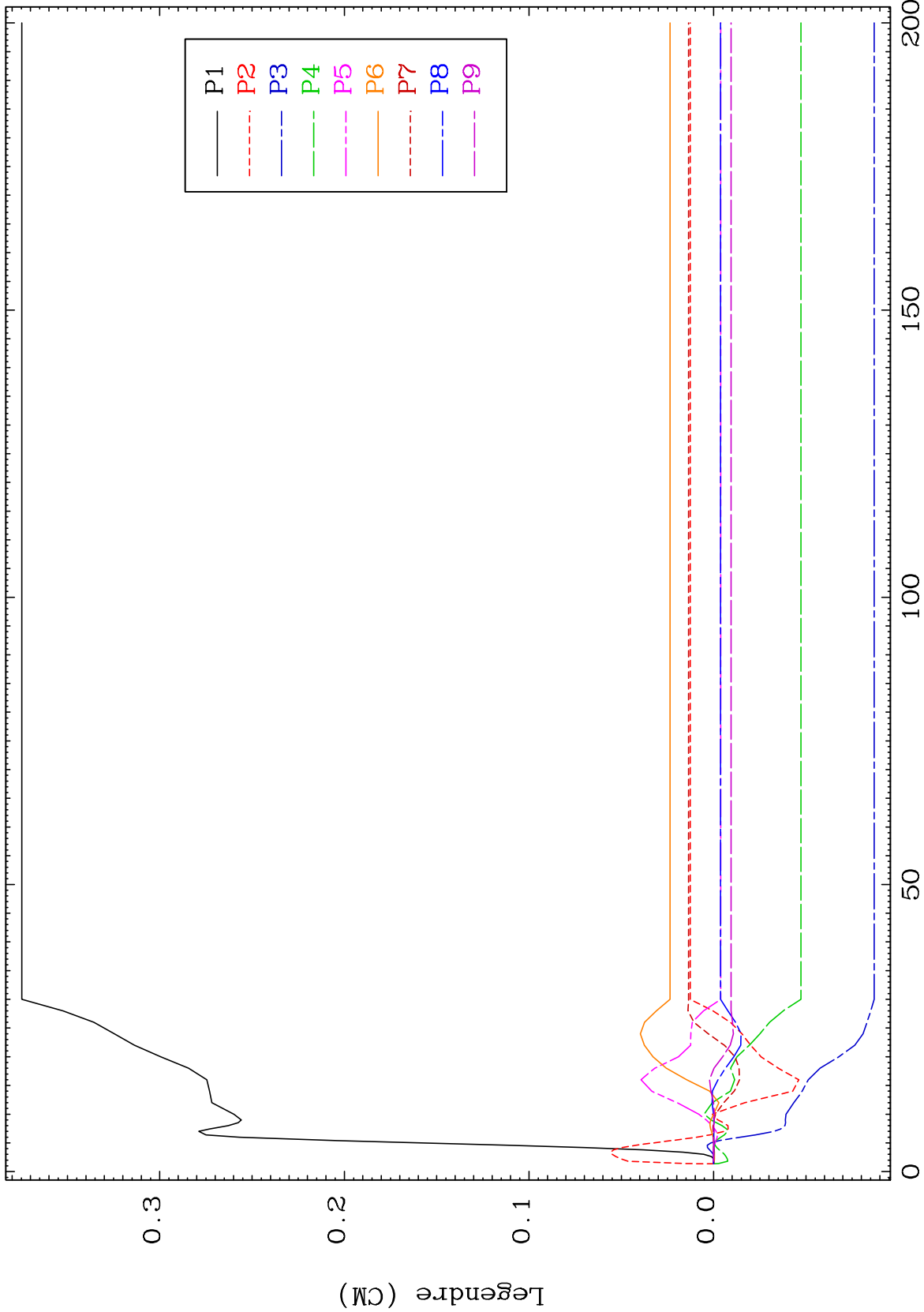




MAT 6295

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

63-Eu-141



98

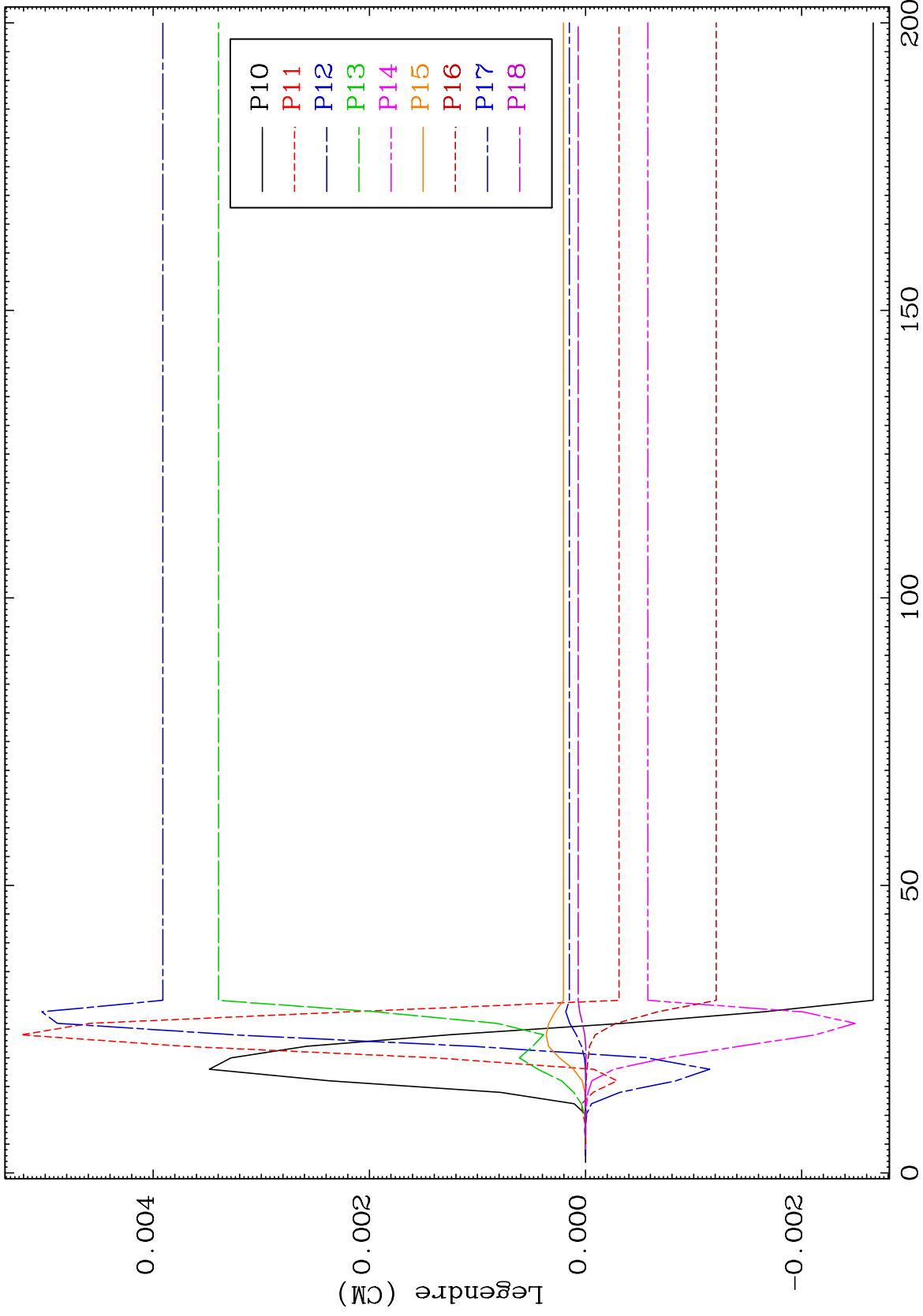
Incident Energy (MeV)

63-Eu-141

MAT 6295

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

63-Eu-141



99

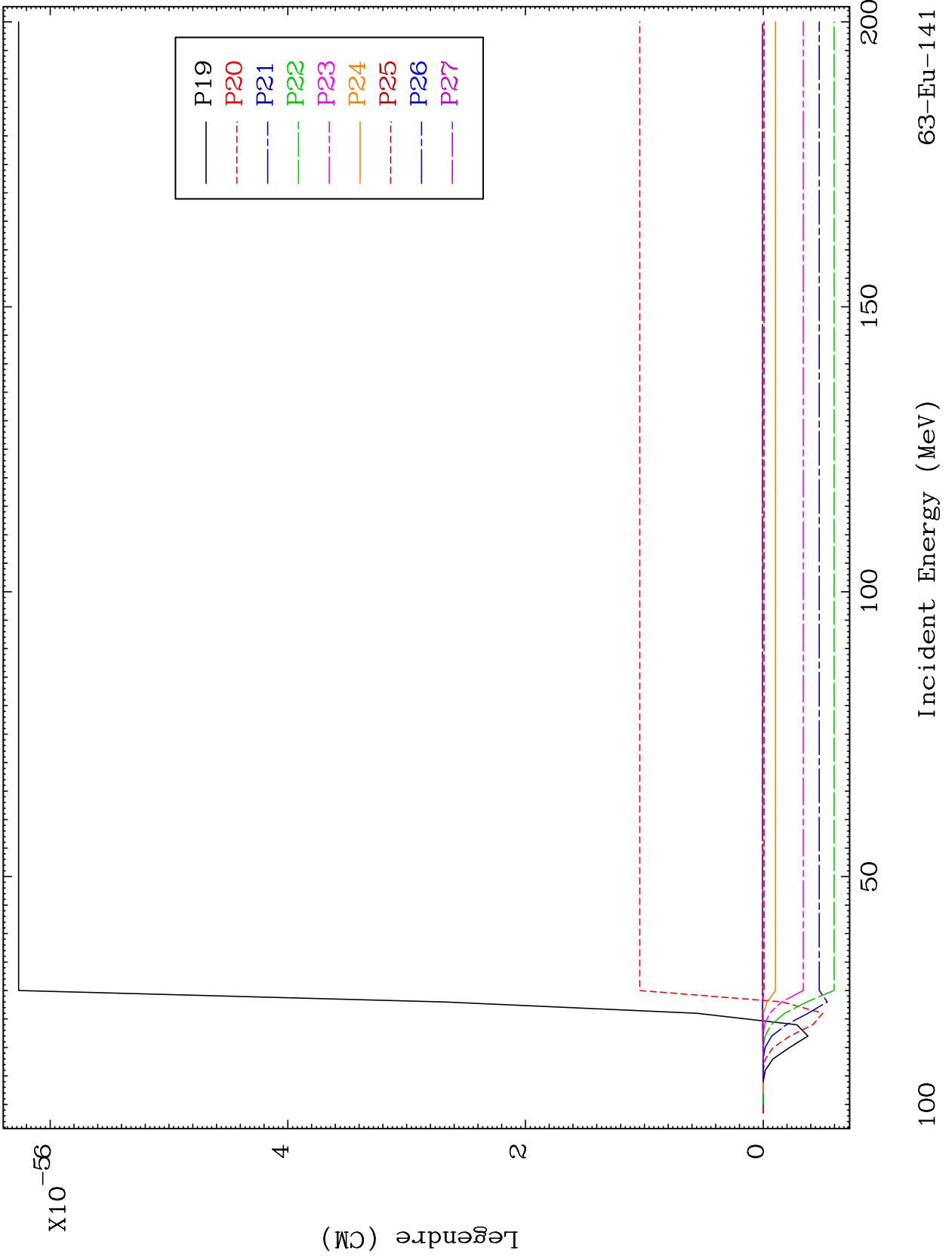
Incident Energy (MeV)

63-Eu-141

MAT 6295

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

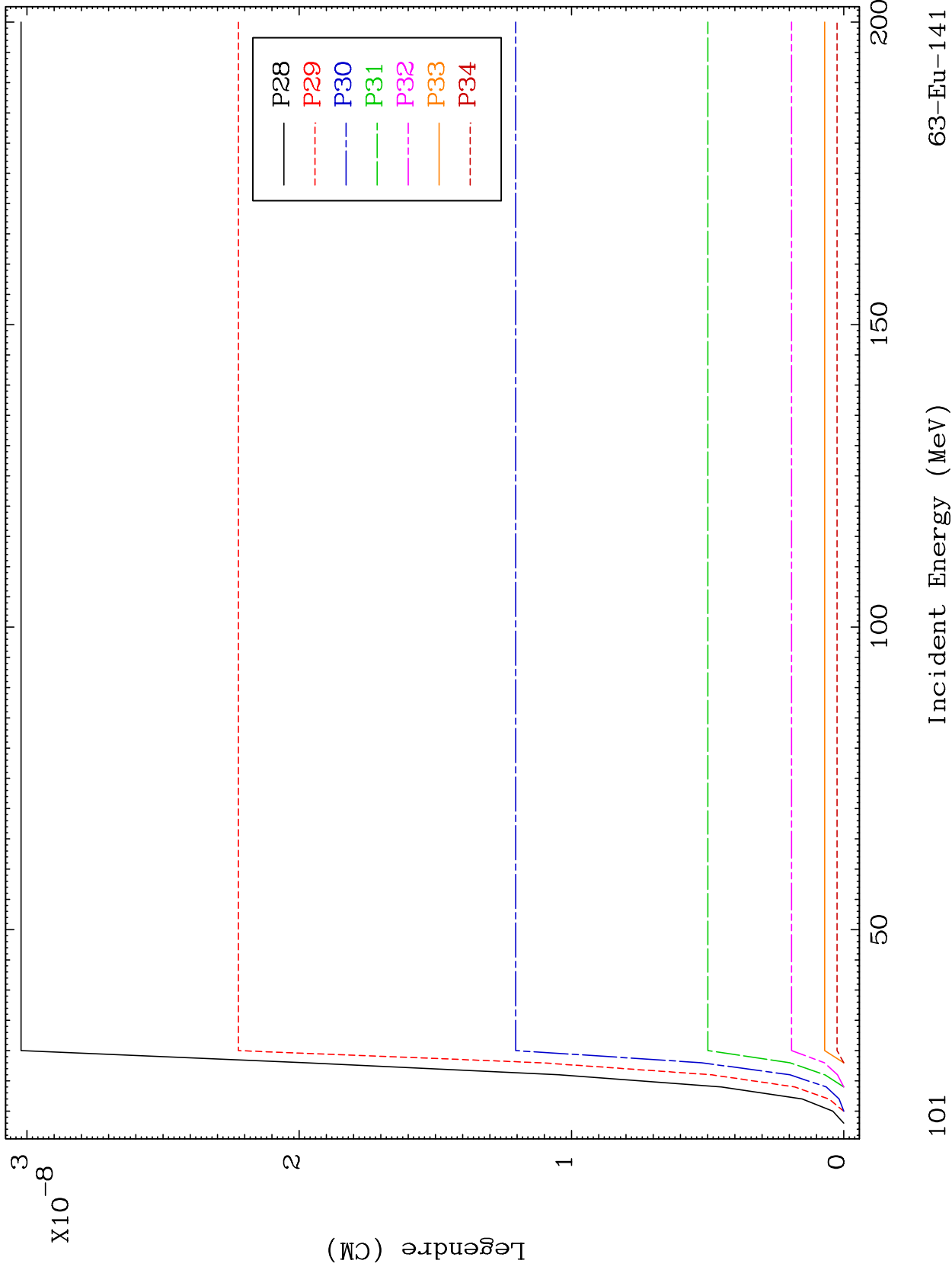
63-Eu-141



MAT 6295

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

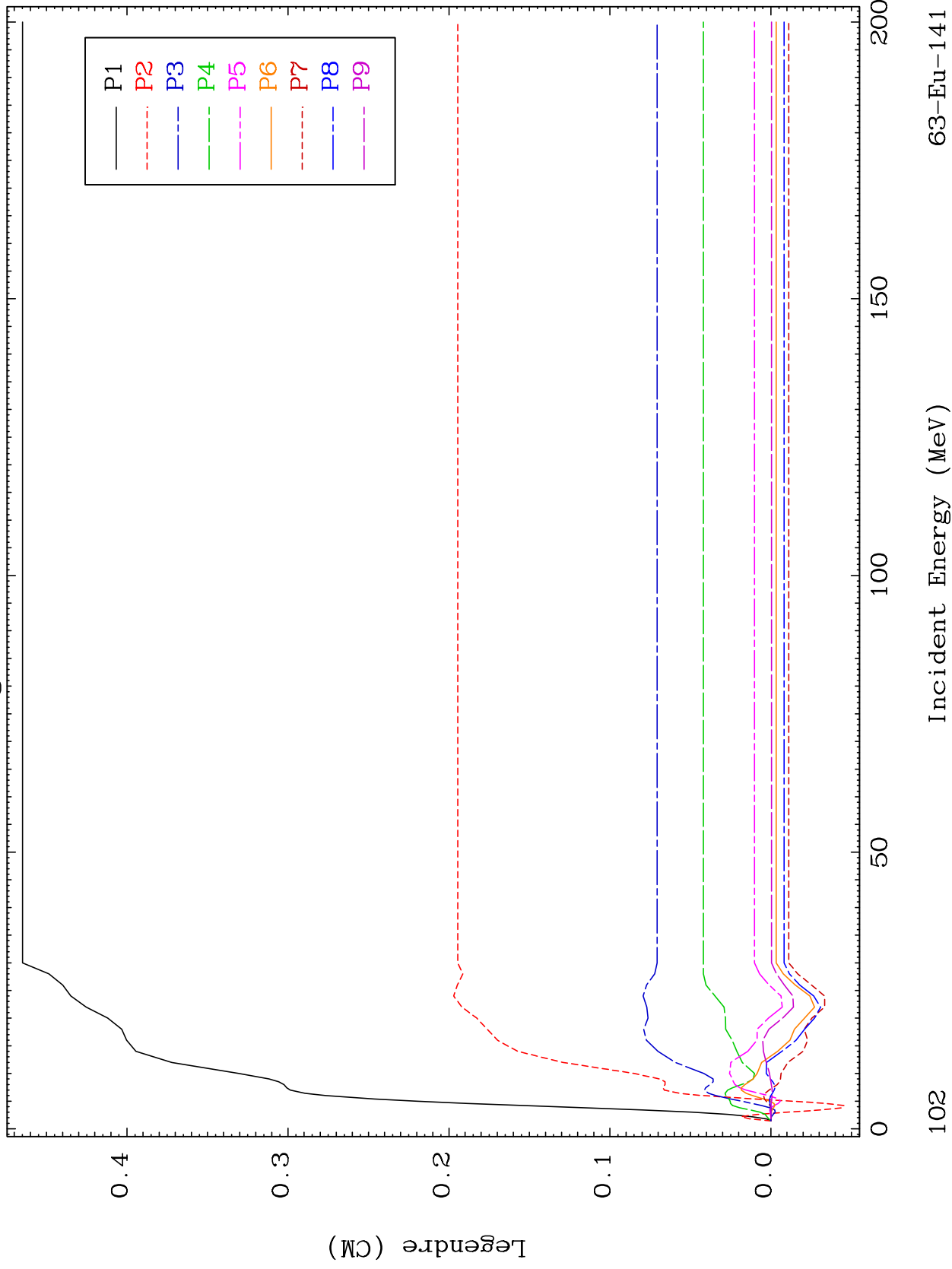
63-Eu-141



MAT 6295

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

63-Eu-141



63-Eu-141

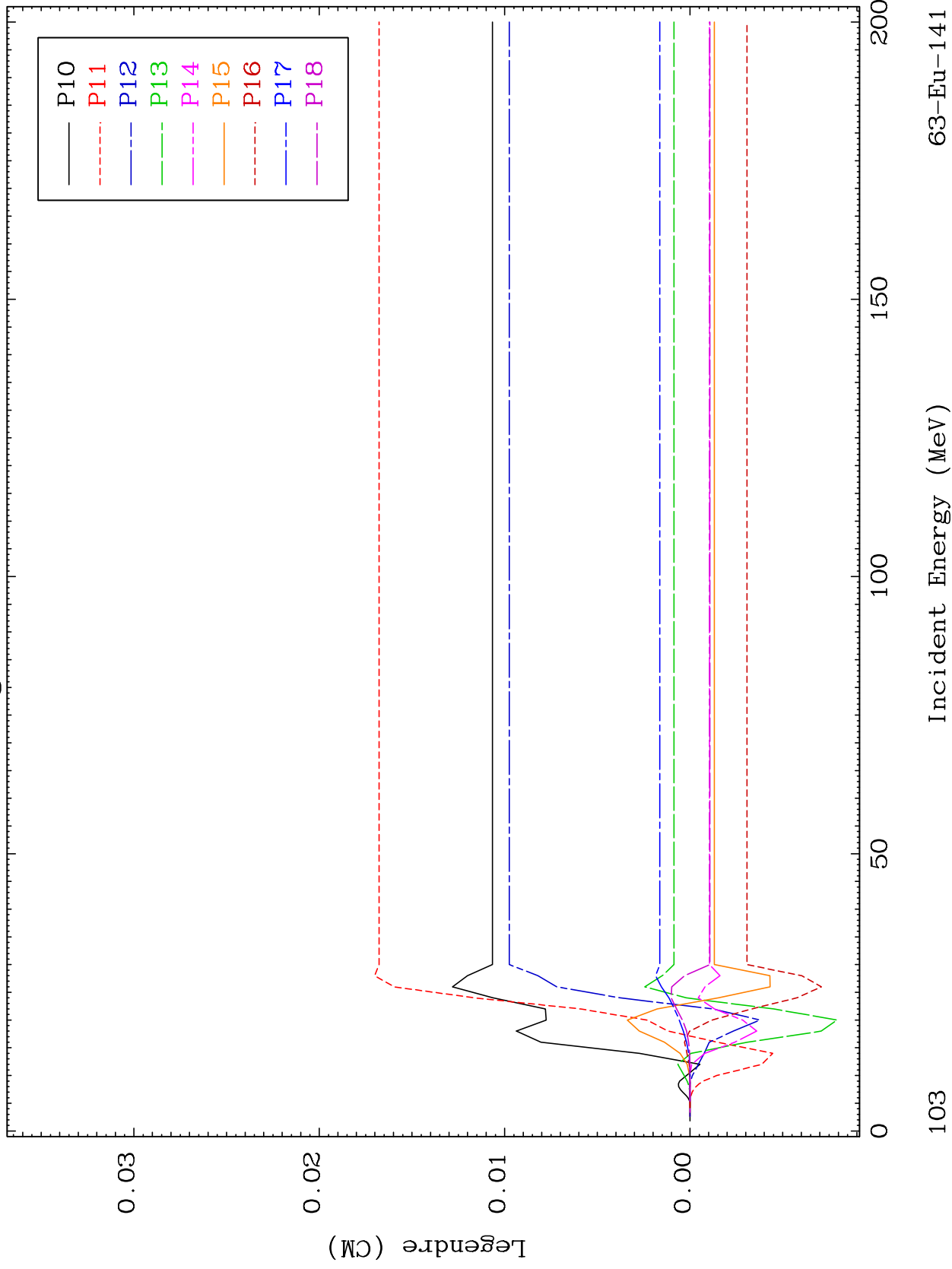
Incident Energy (MeV)

102

MAT 6295

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

63-Eu-141

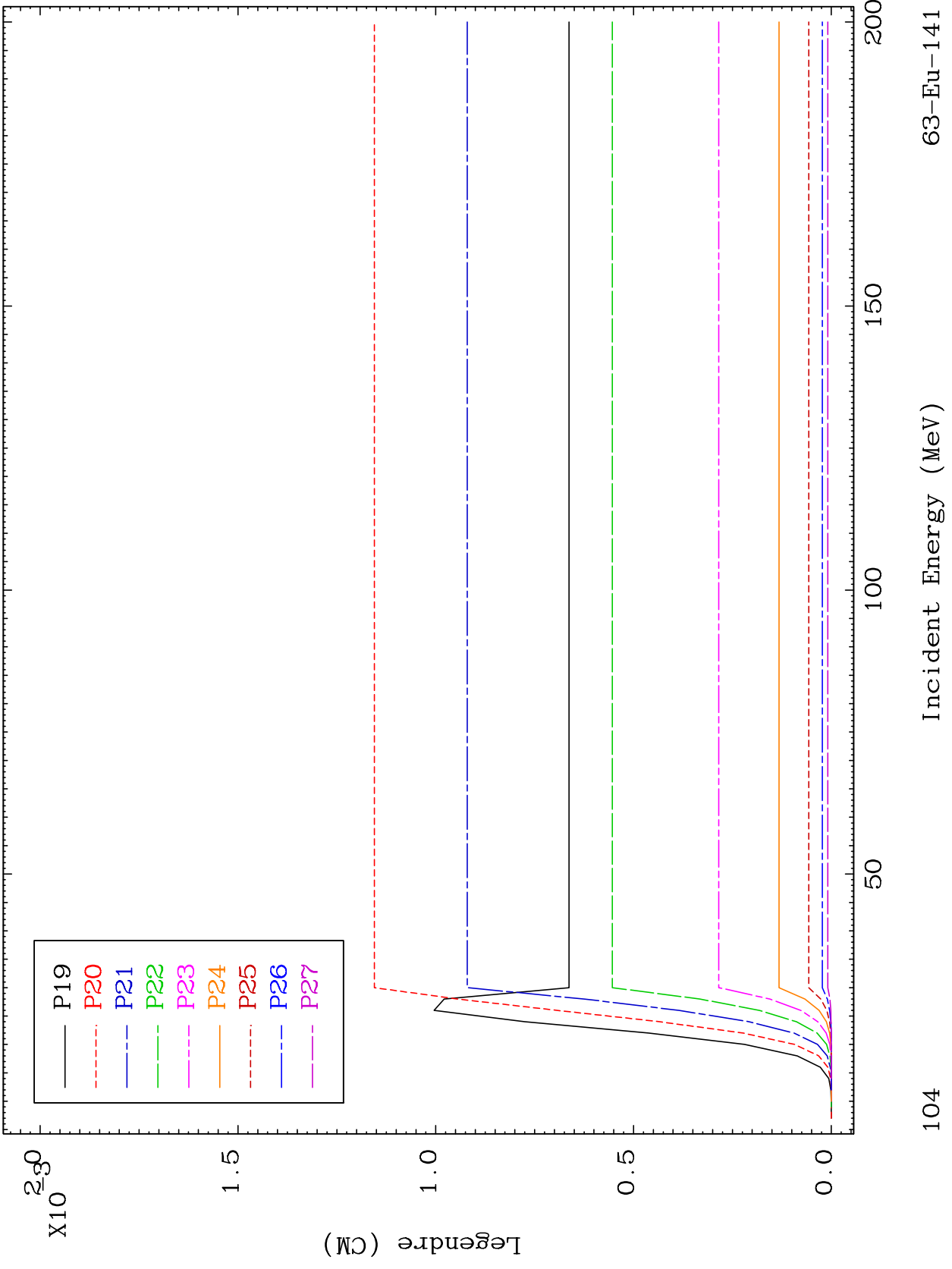


63-Eu-141

Incident Energy (MeV)

103

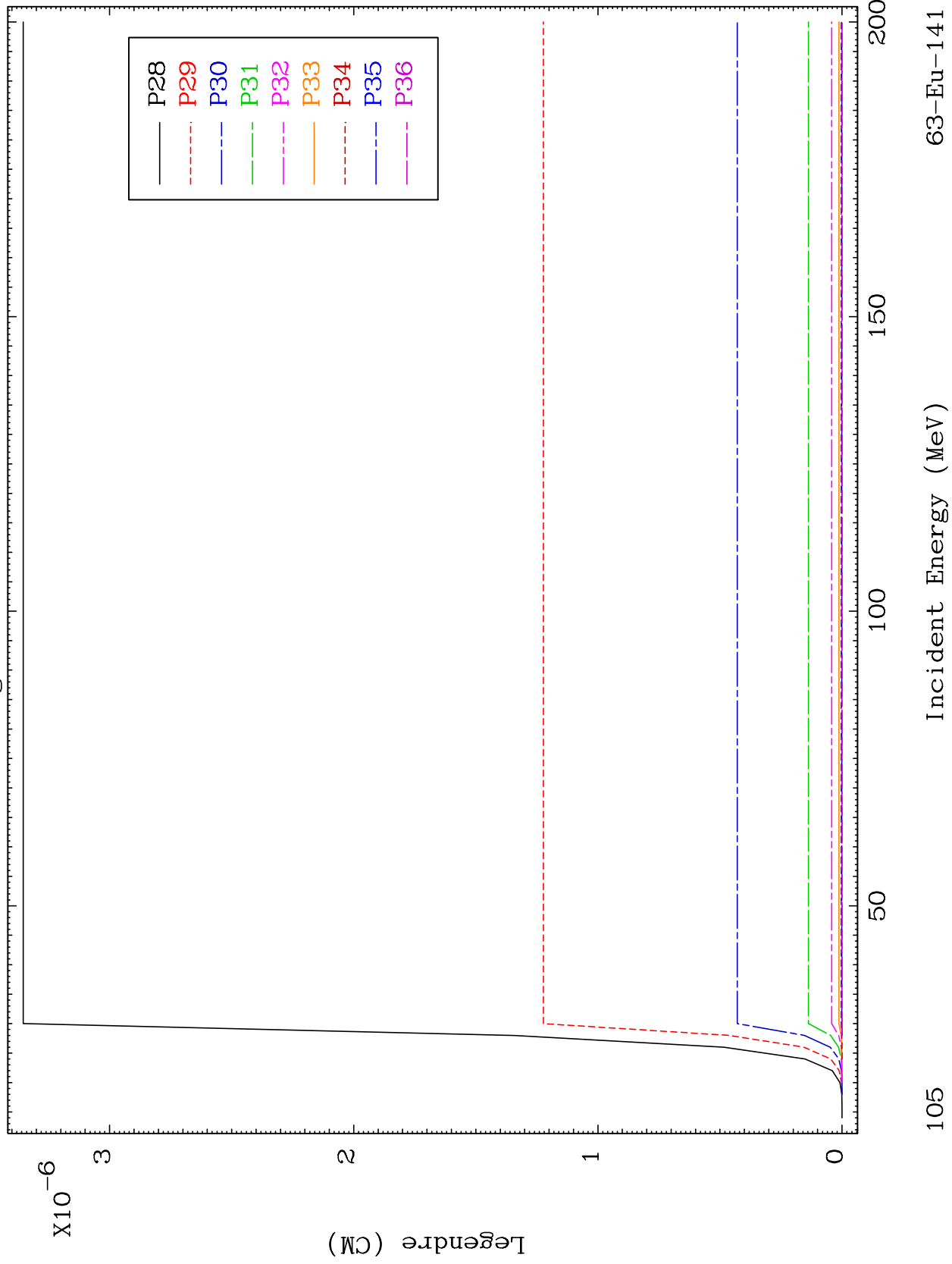




MAT 6295

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

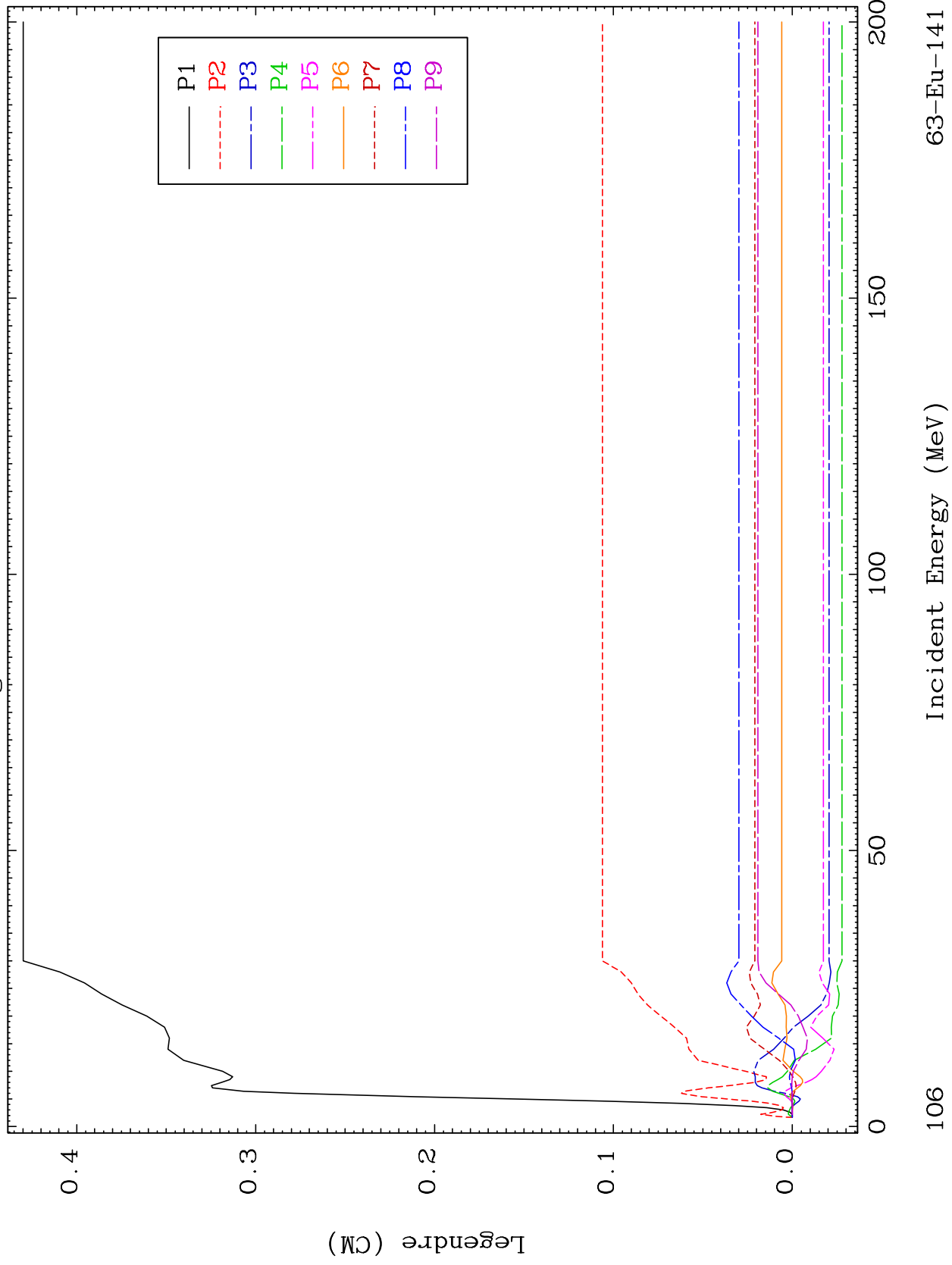
63-Eu-141



MAT 6295

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

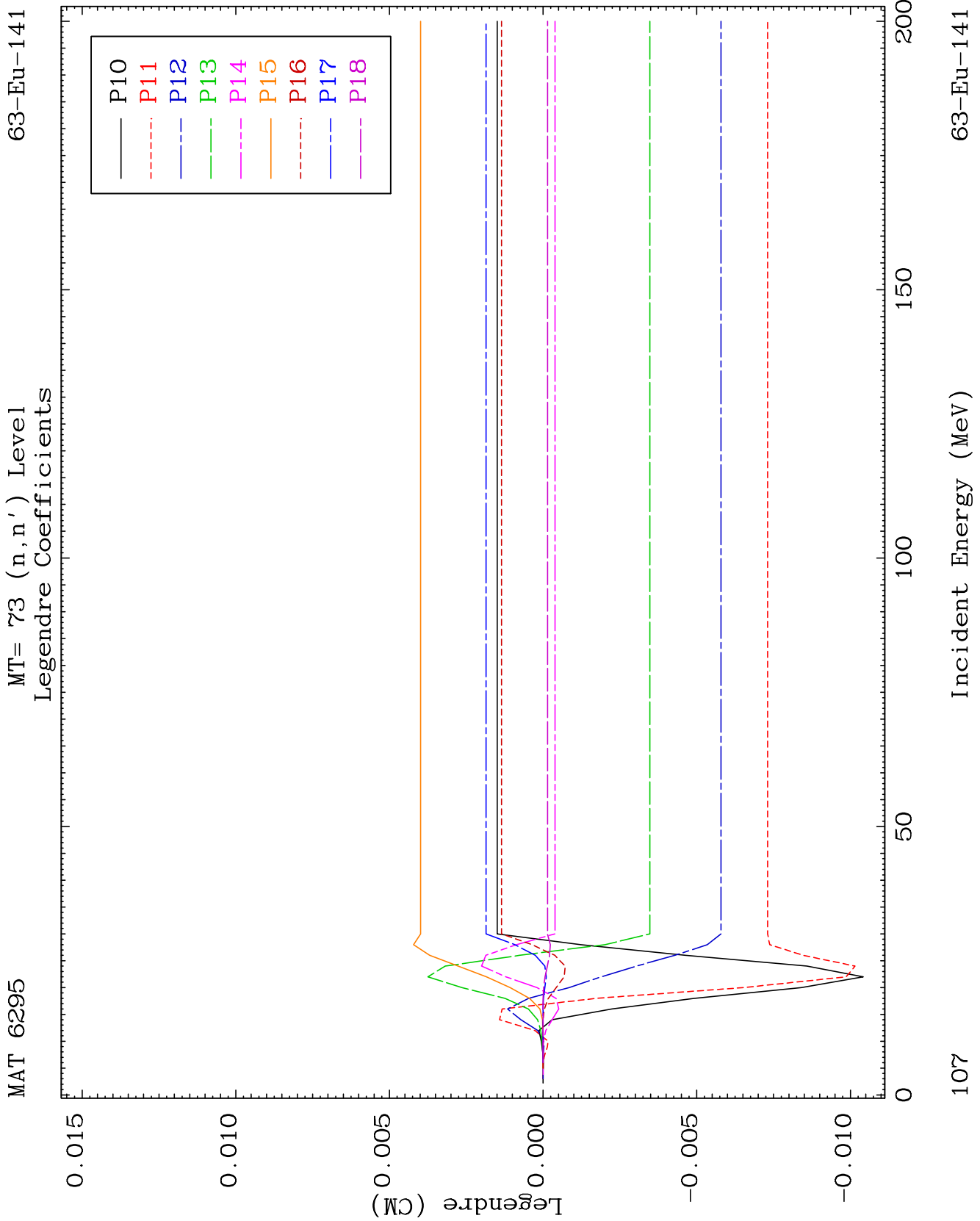
63-Eu-141



63-Eu-141

Incident Energy (MeV)

106

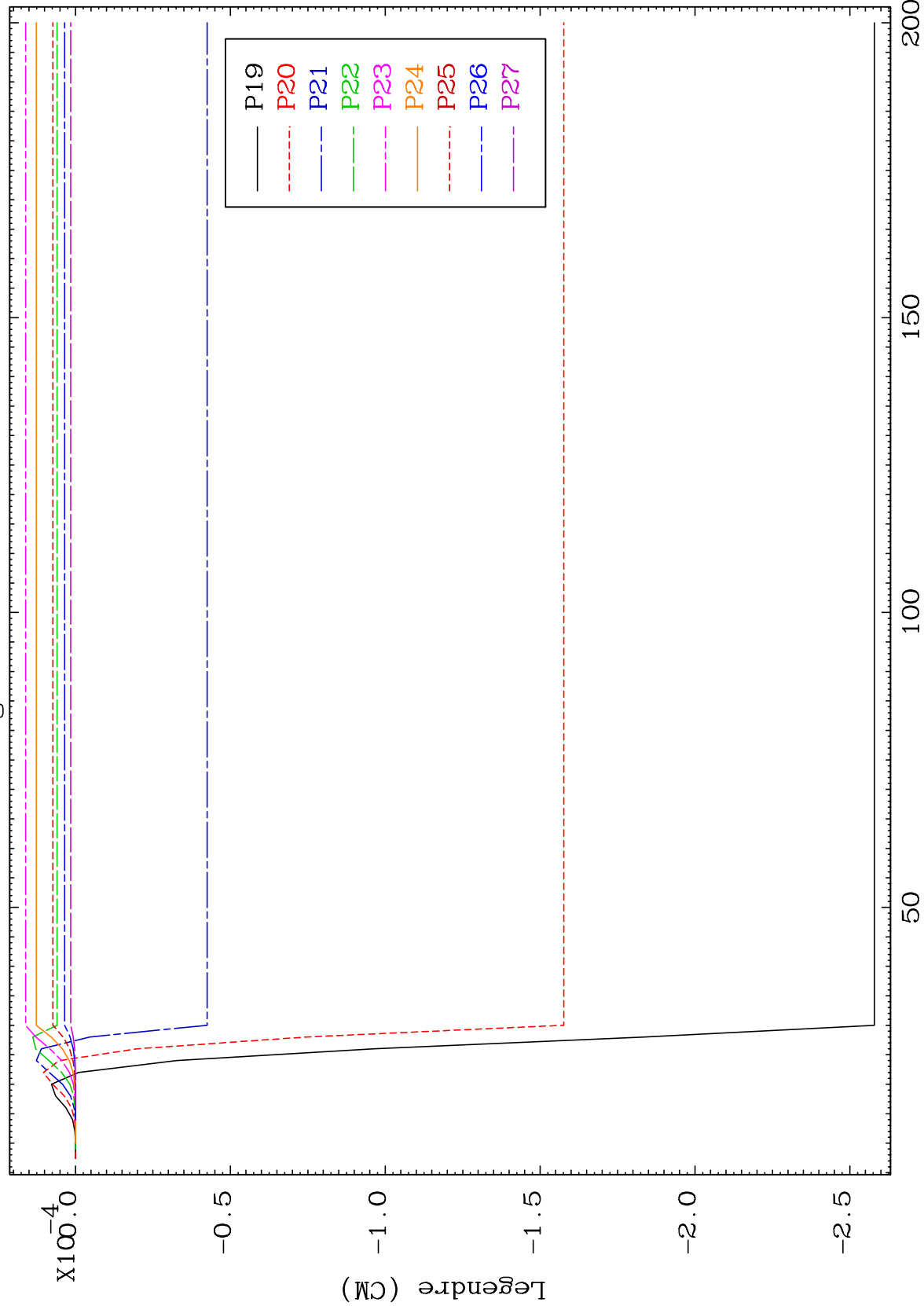


MAT 6295

MT= 73 (n,n') Level

63-Eu-141

Legendre Coefficients



108

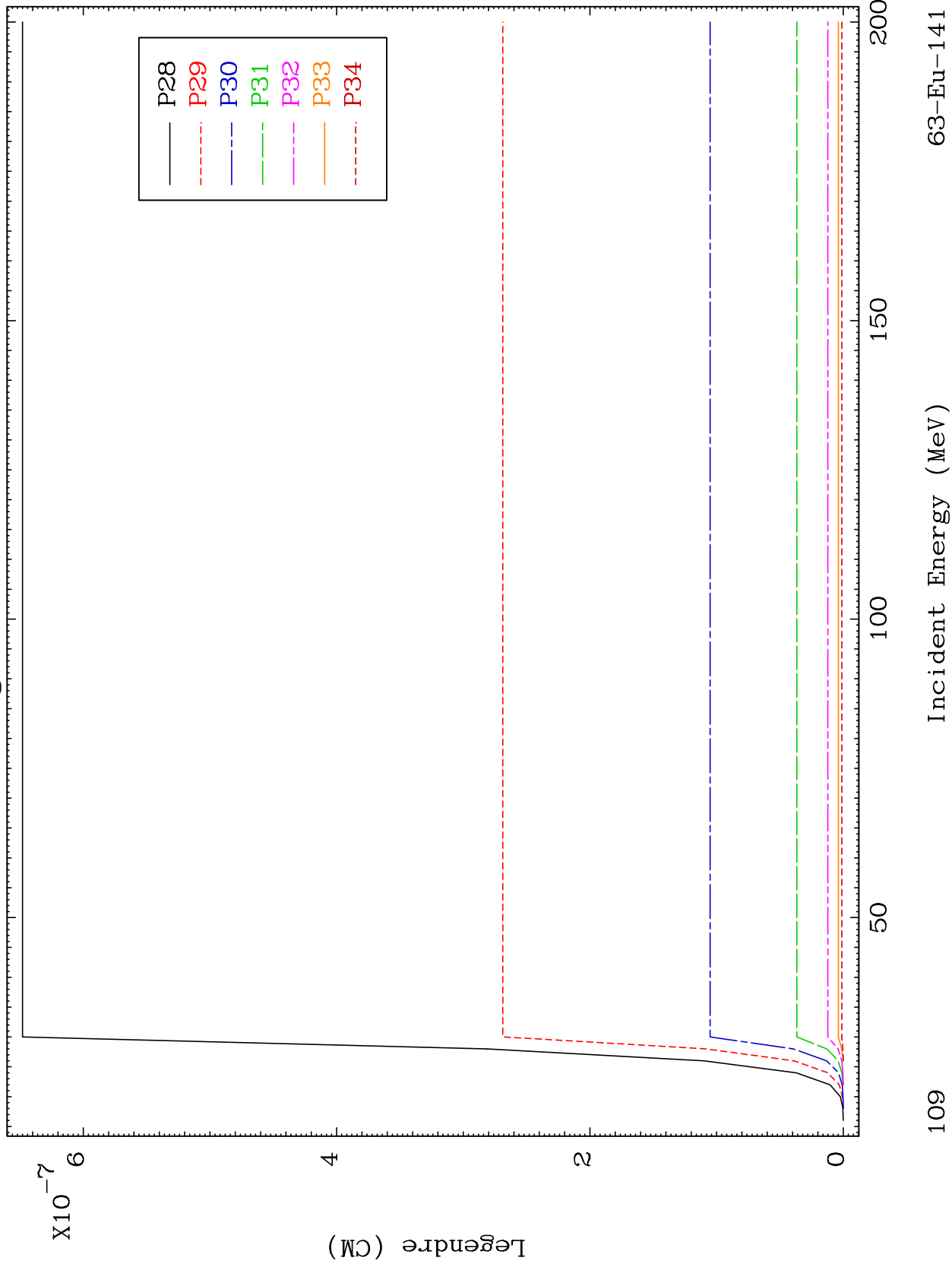
Incident Energy (MeV)

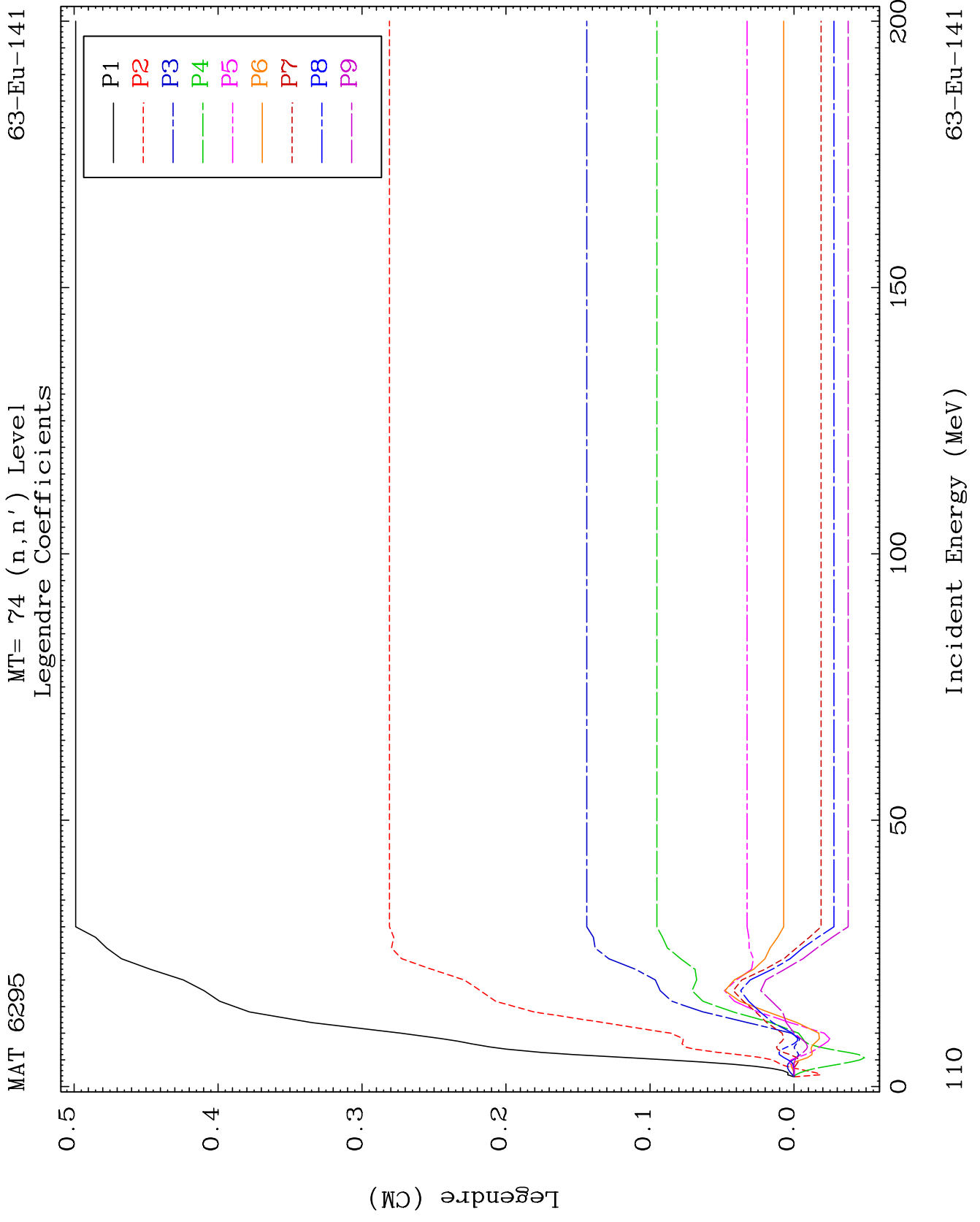
63-Eu-141

MAT 6295

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

63-Eu-141

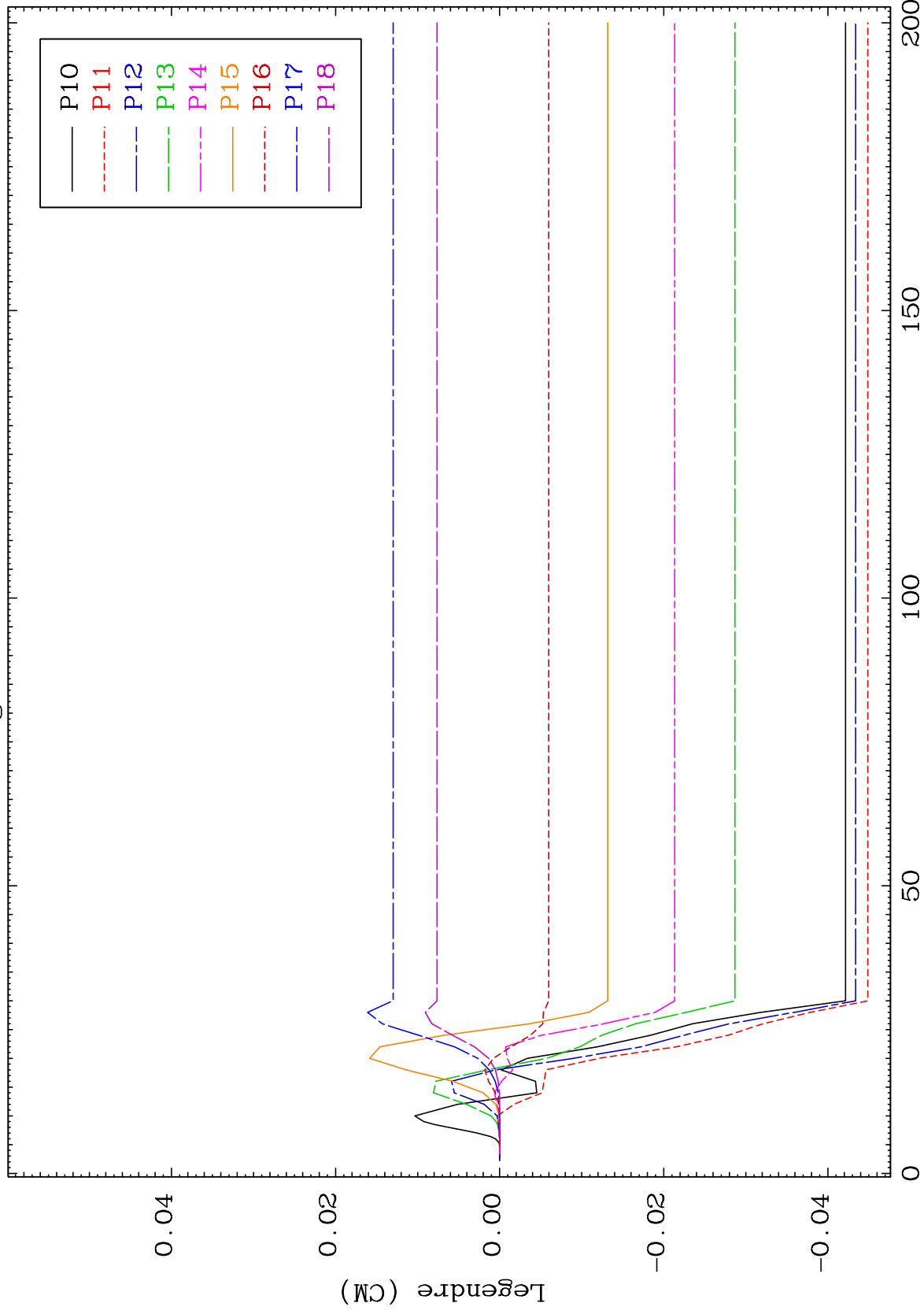




MAT 6295

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

63-Eu-141

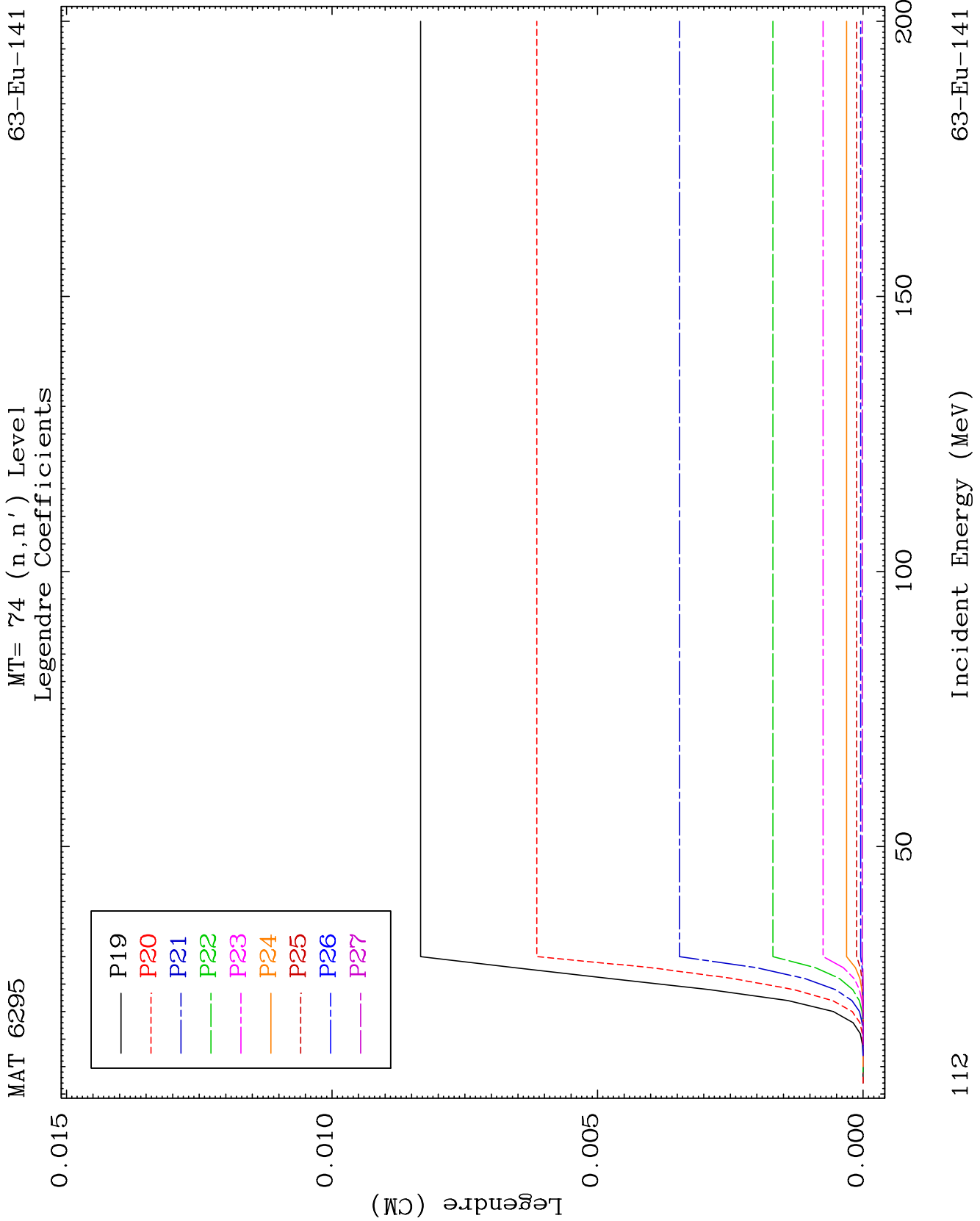


111

Incident Energy (MeV)

63-Eu-141

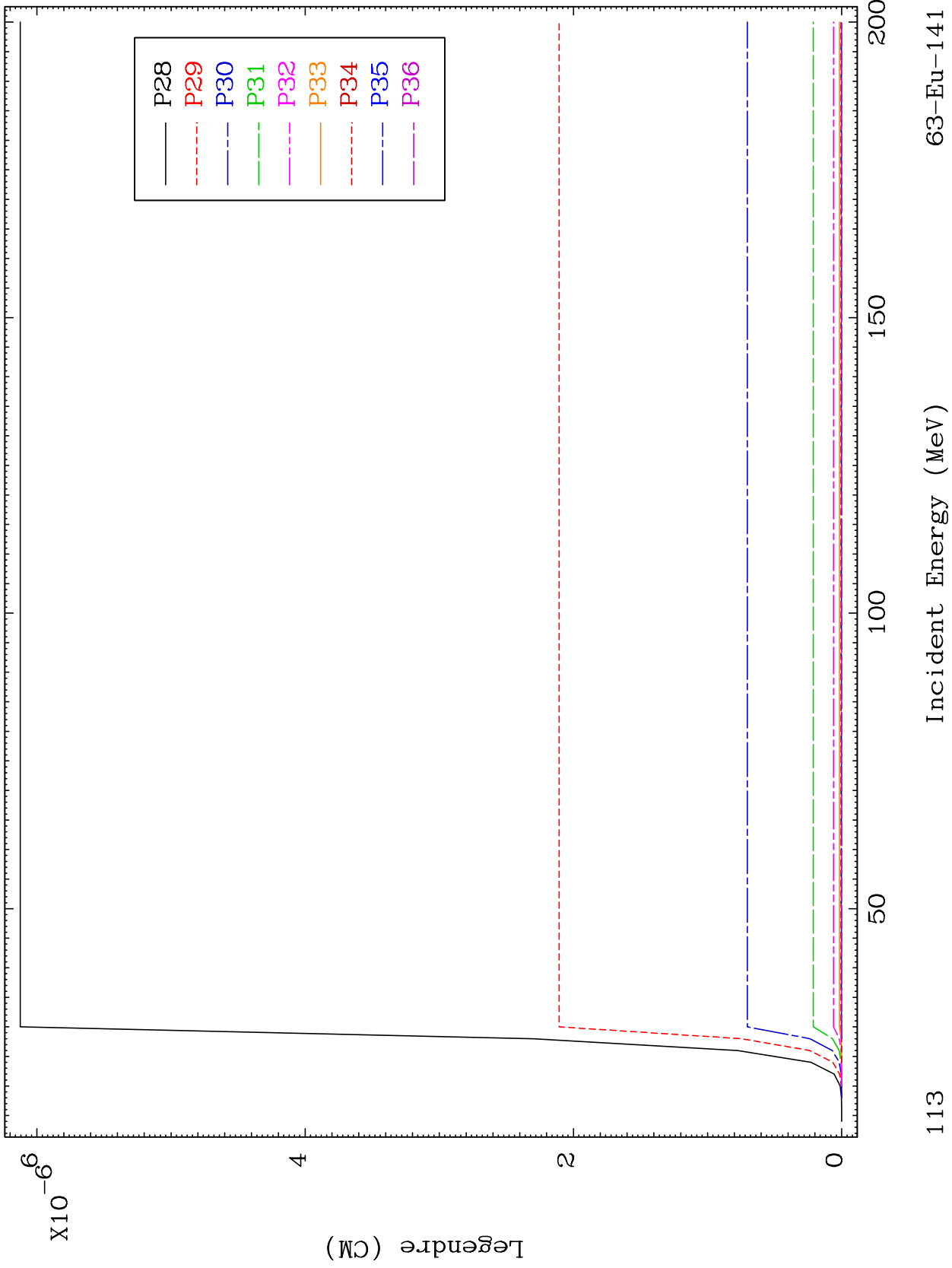


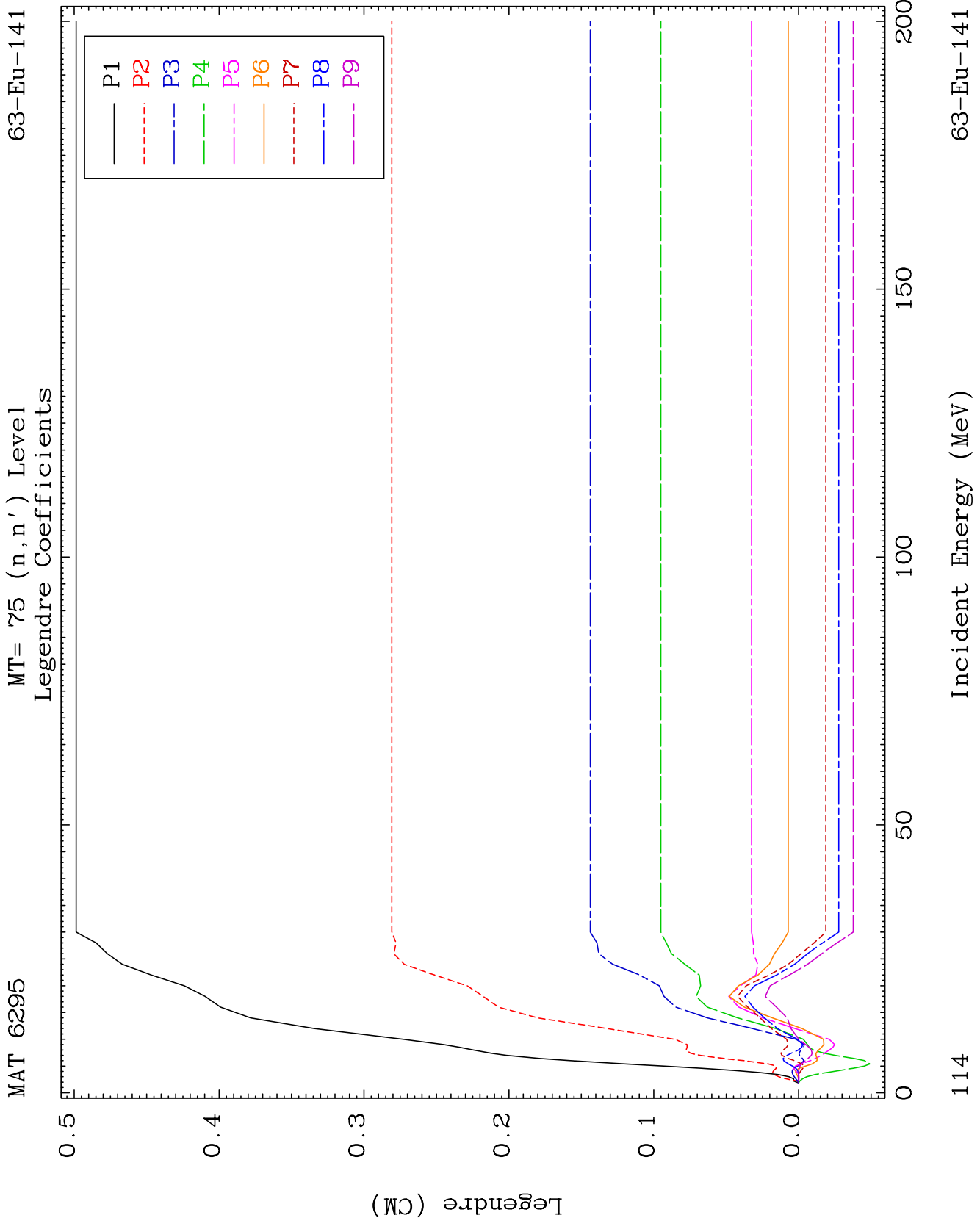


MAT 6295

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

63-Eu-141

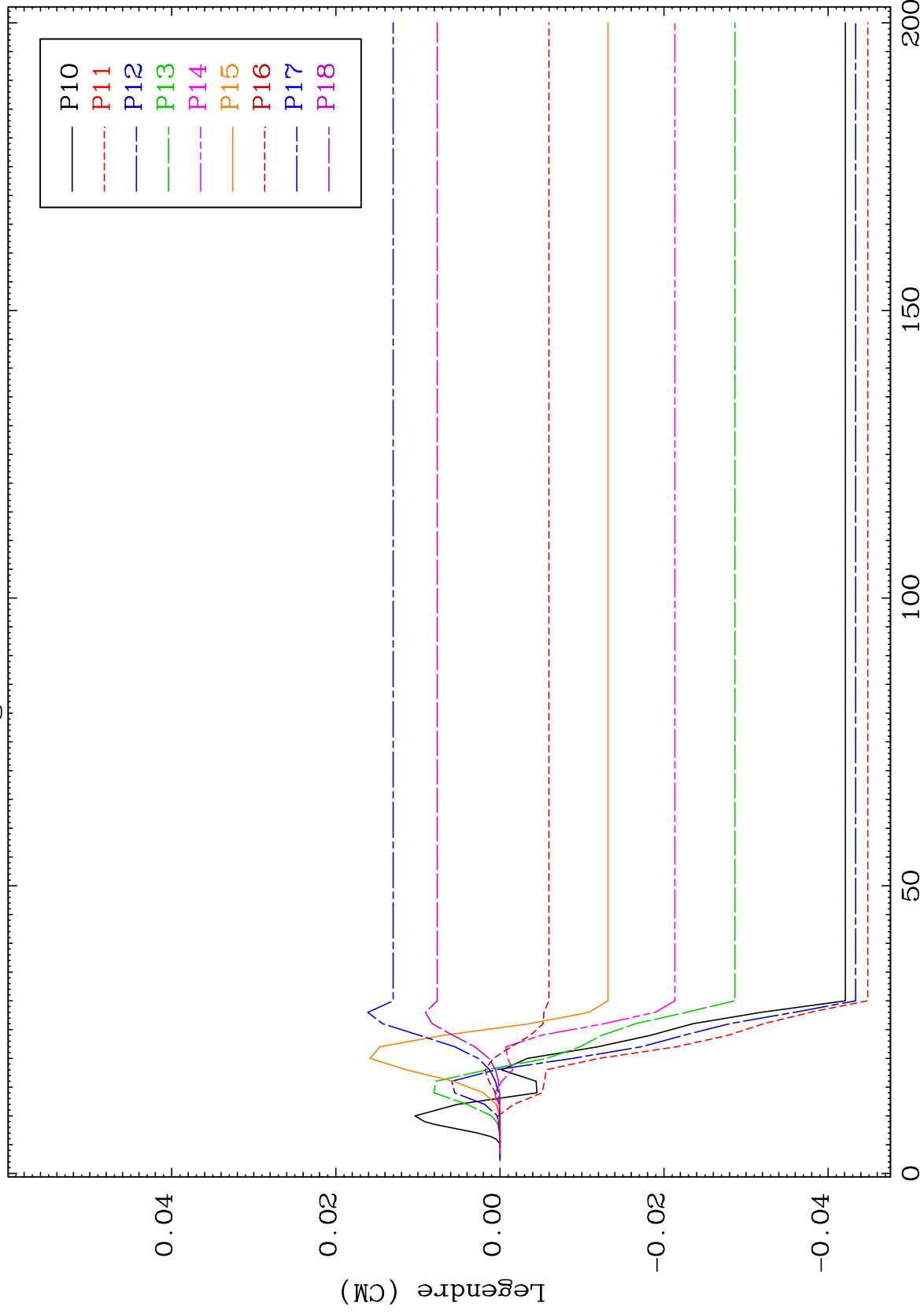




MAT 6295

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

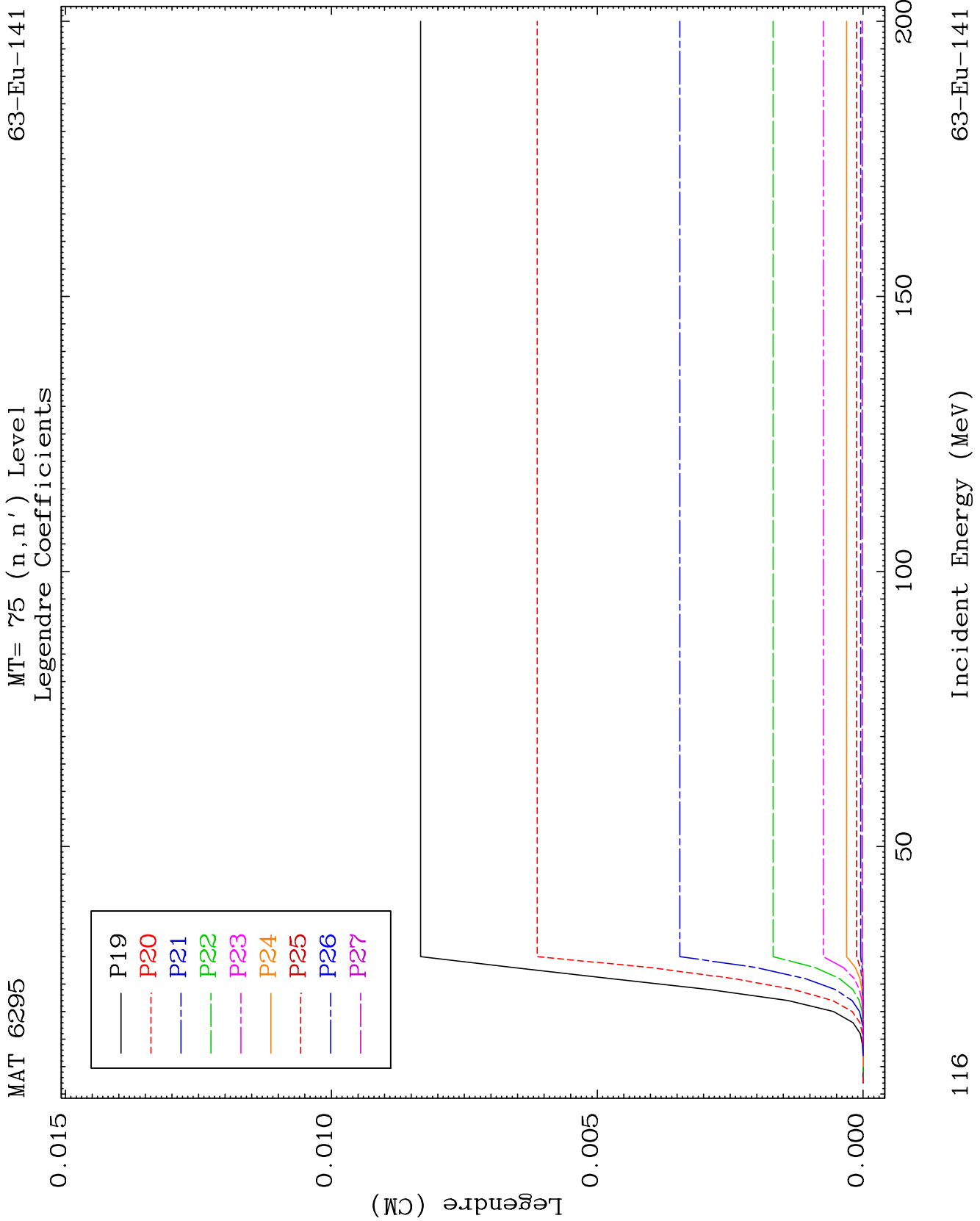
63-Eu-141



115

Incident Energy (MeV)

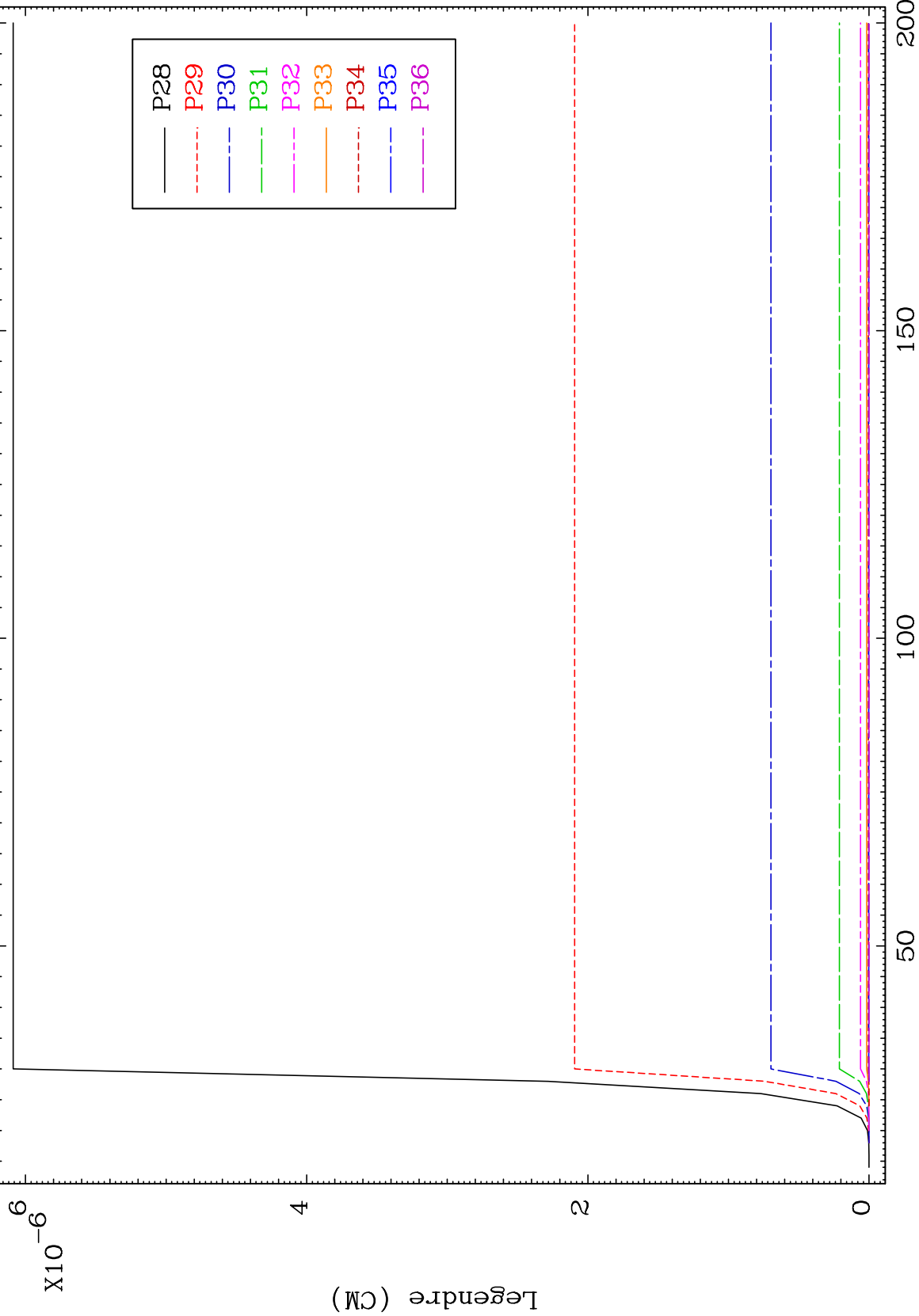
63-Eu-141



MAT 6295

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

63-Eu-141



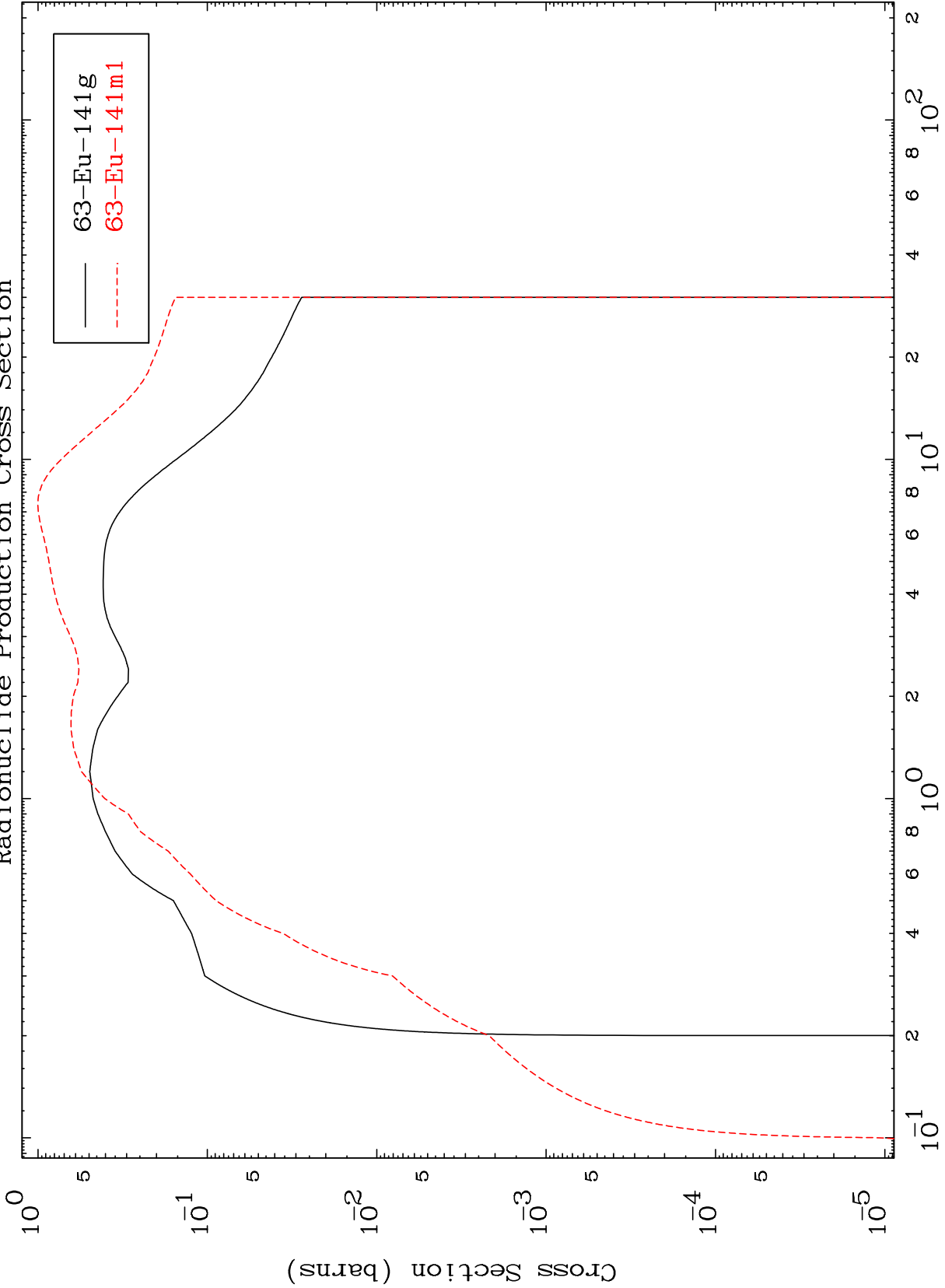
117

63-Eu-141

MAT 6295

63-Eu-141

### Inelastic Radionuclide Production Cross Section



63-Eu-141

Incident Energy (MeV)

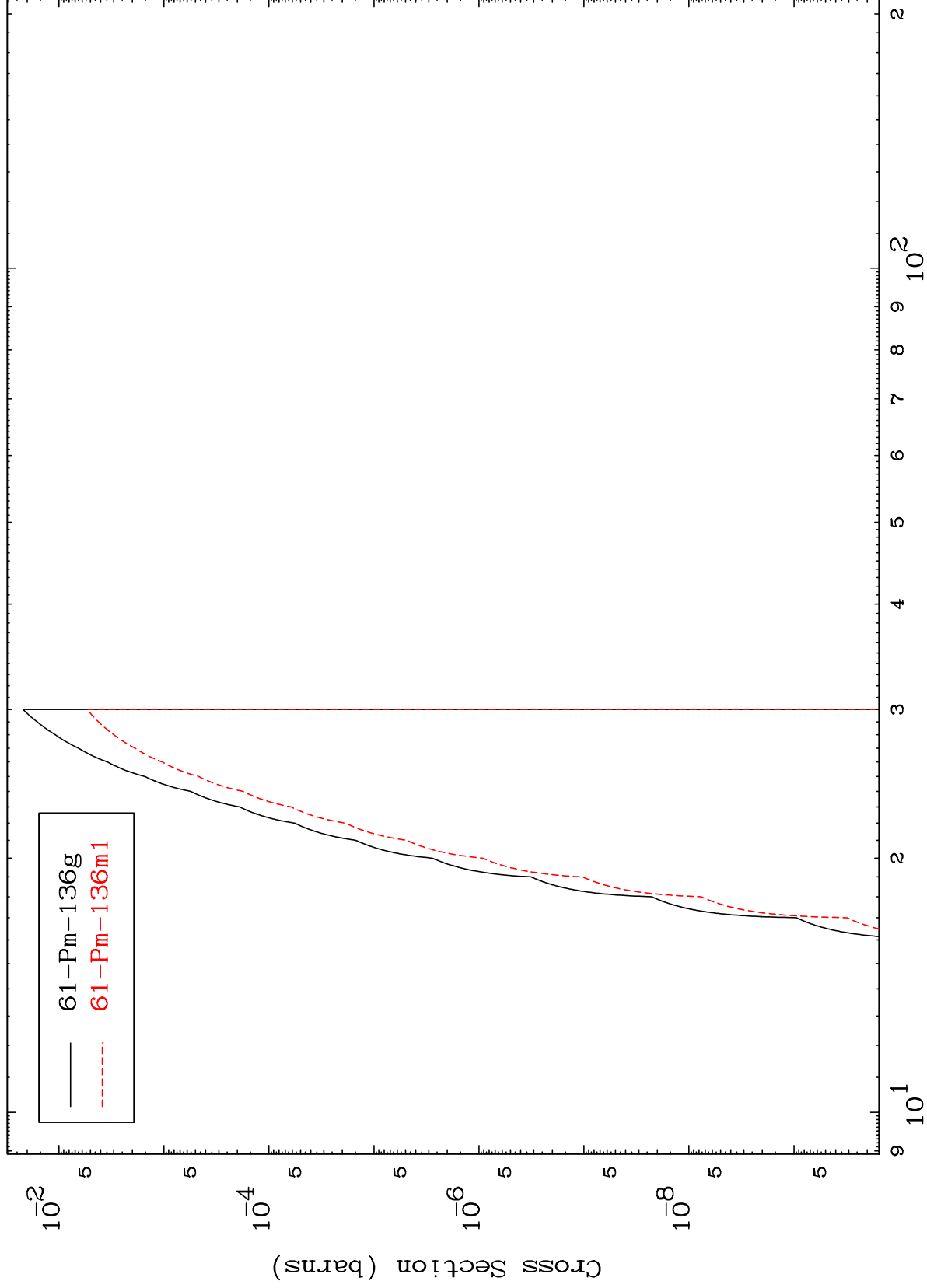
118

MAT 6295

(n,2n)  $\alpha$

63-Eu-141

Radionuclide Production Cross Section



119

Incident Energy (MeV)

63-Eu-141

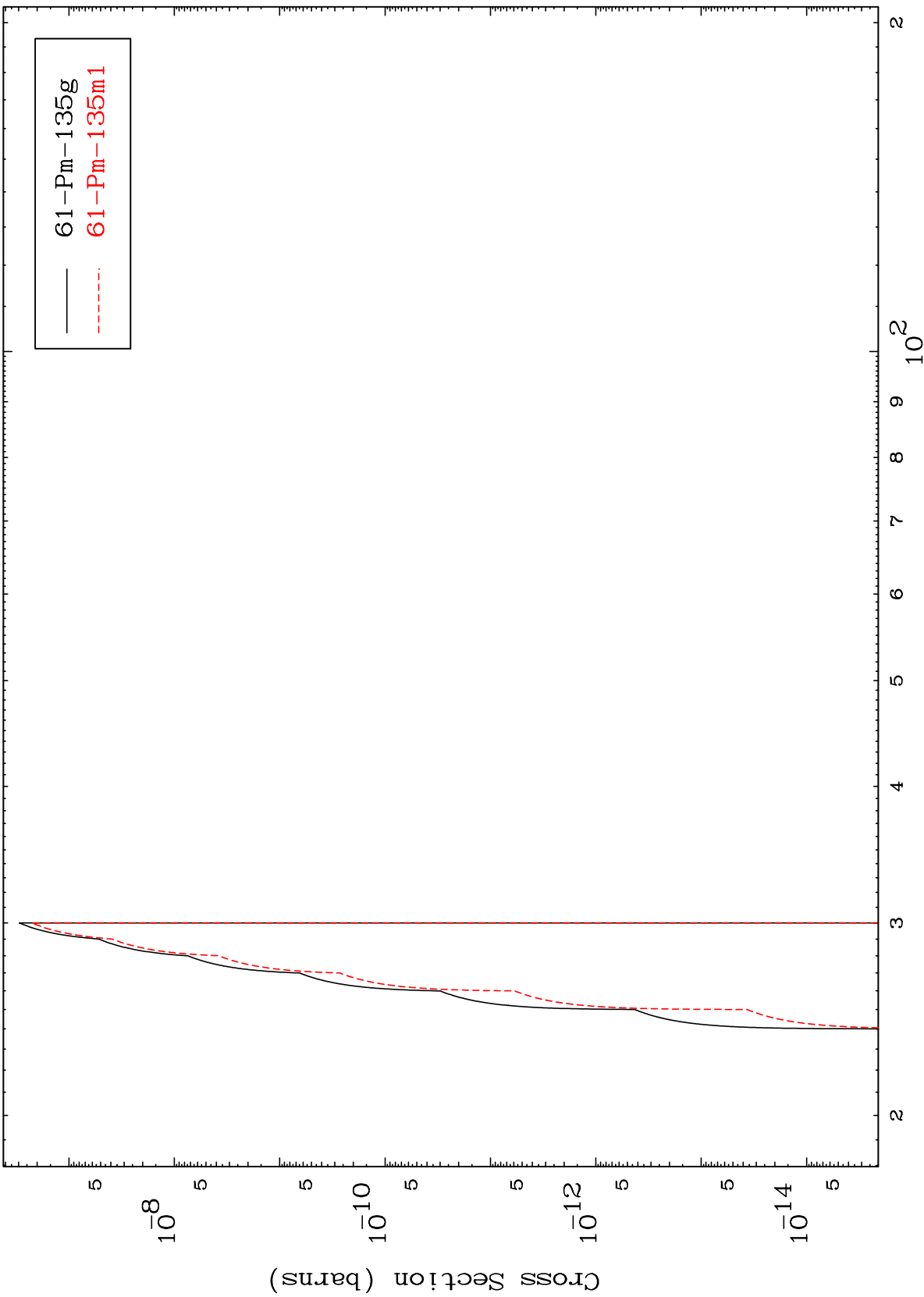


MAT 6295

(n,3n)  $\alpha$

63-Eu-141

Radionuclide Production Cross Section



120

Incident Energy (MeV)

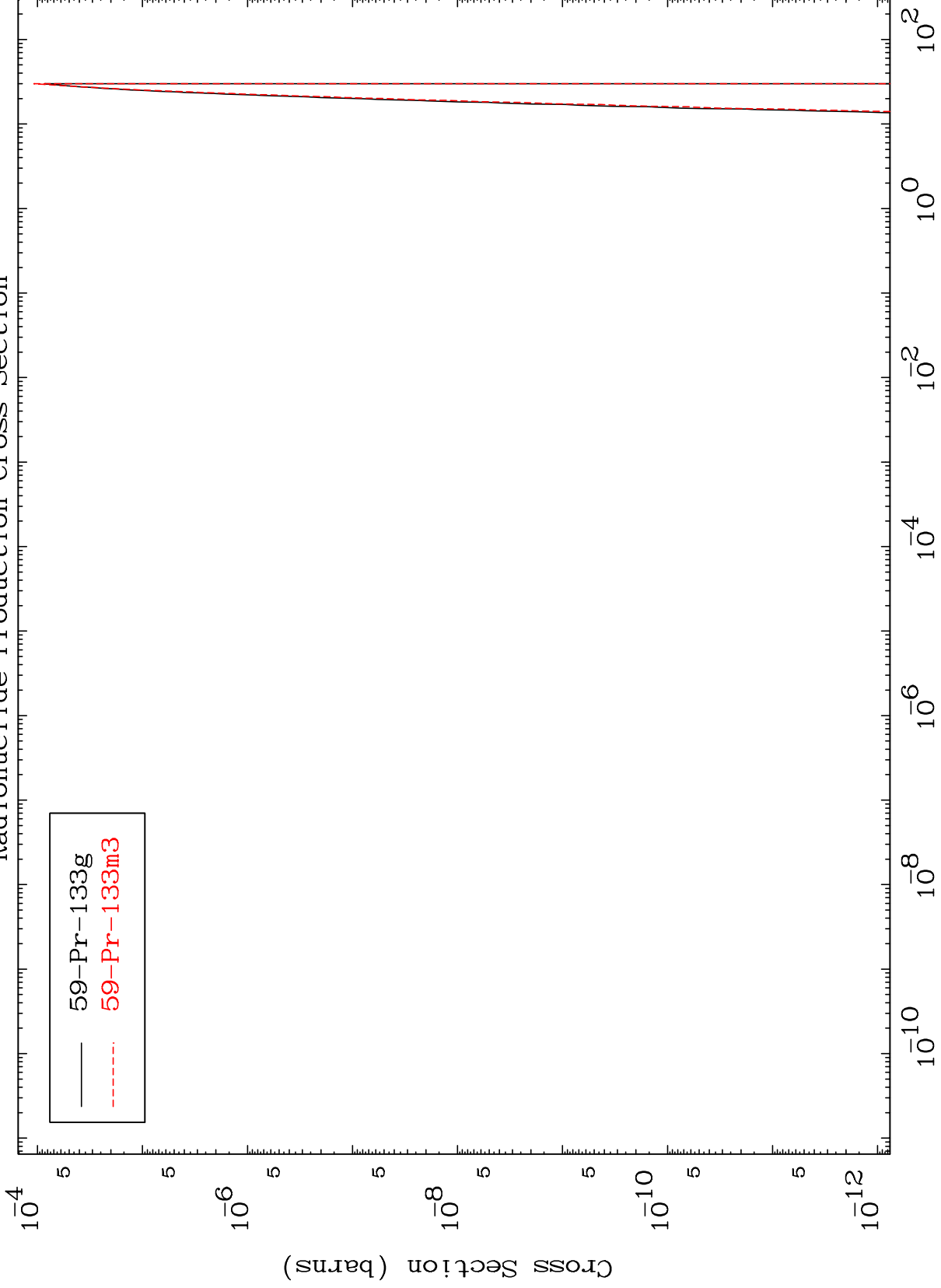
63-Eu-141

MAT 6295

(n,n') 2α

63-Eu-141

Radionuclide Production Cross Section



59-Pr-133g  
59-Pr-133m3

121

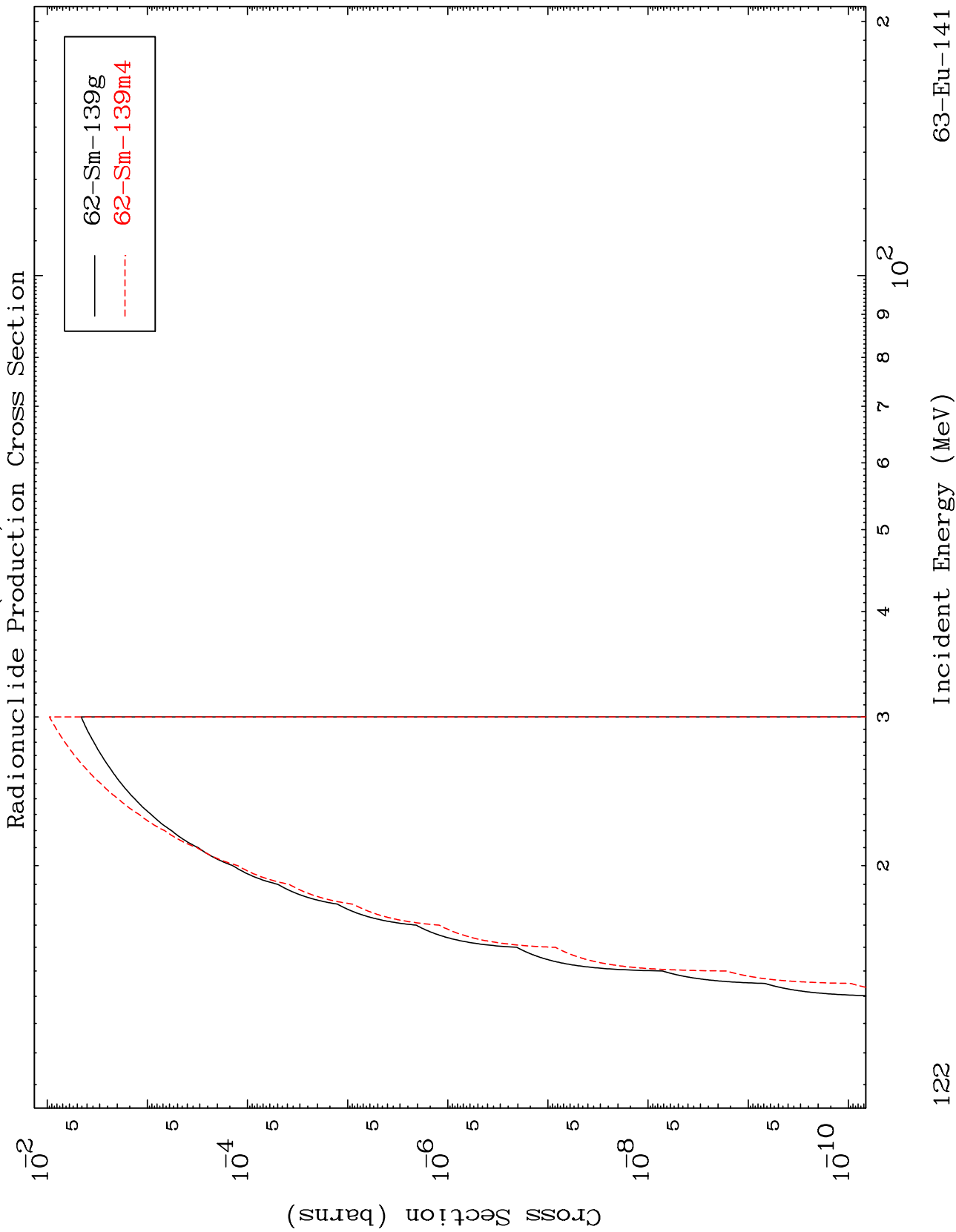
Incident Energy (MeV)

63-Eu-141

MAT 6295

(n,n') d

63-Eu-141



122

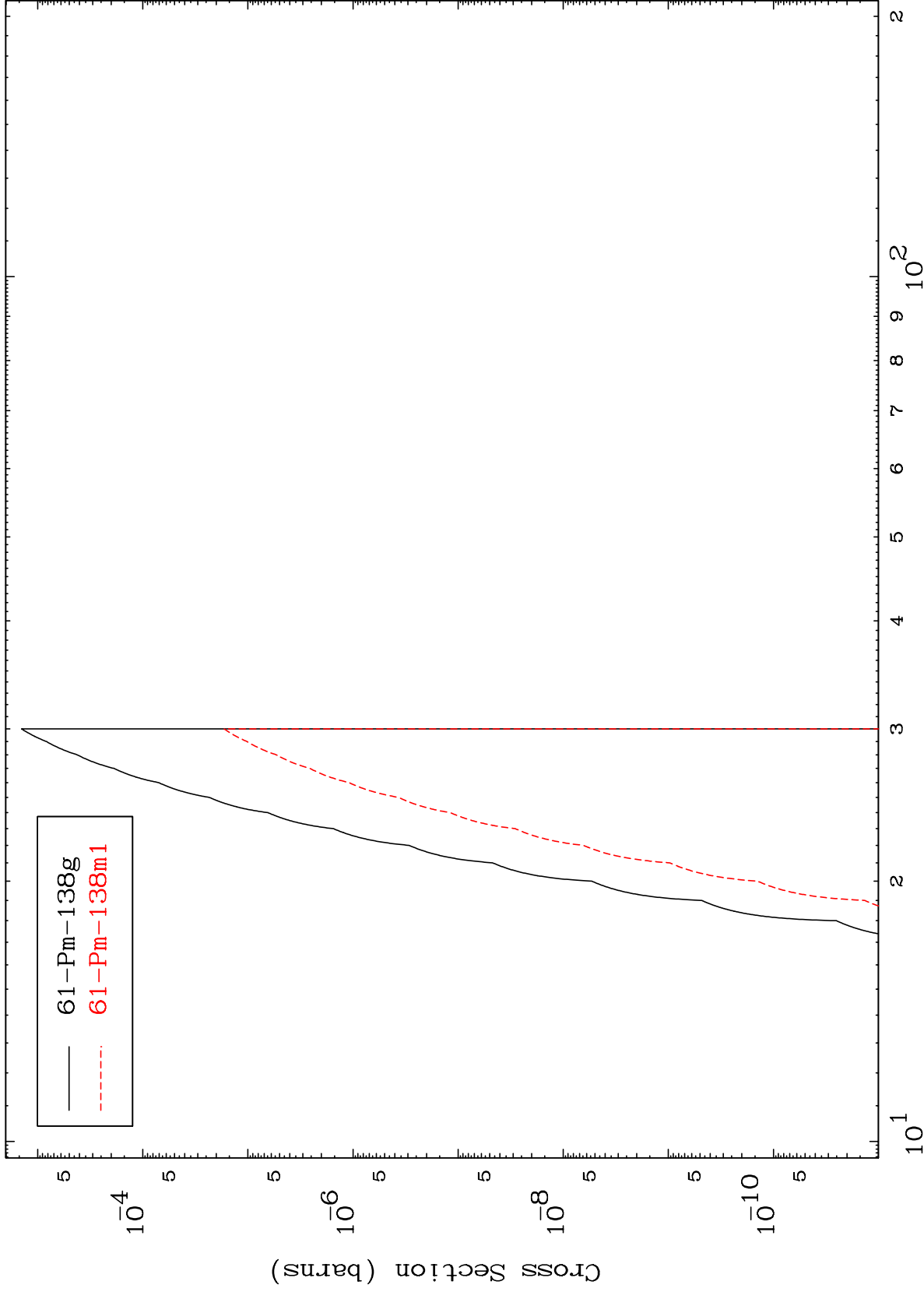
63-Eu-141

MAT 6295

(n,n') He-3

63-Eu-141

Radionuclide Production Cross Section



123

Incident Energy (MeV)

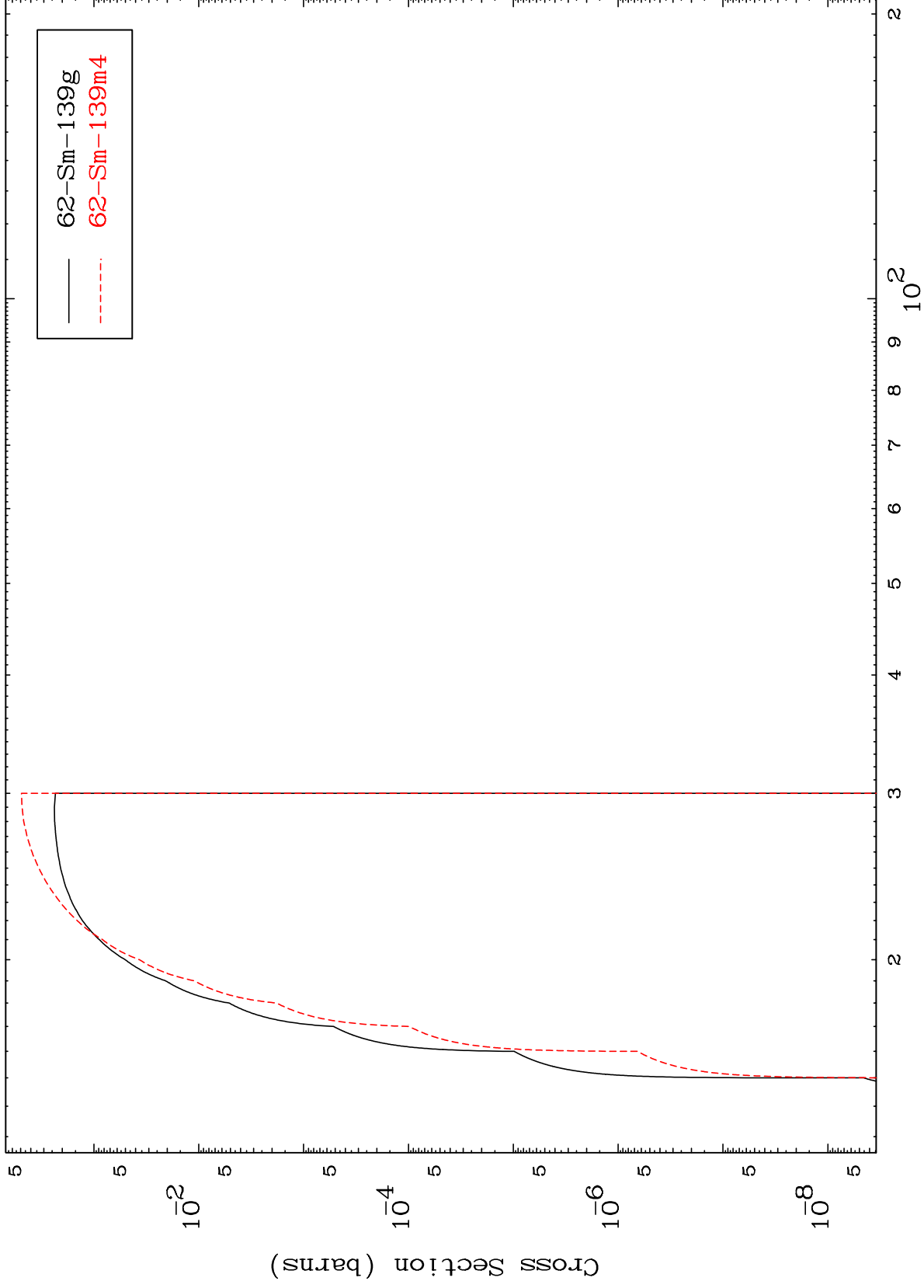
63-Eu-141

MAT 6295

(n,2n) p

63-Eu-141

Radionuclide Production Cross Section



124

Incident Energy (MeV)

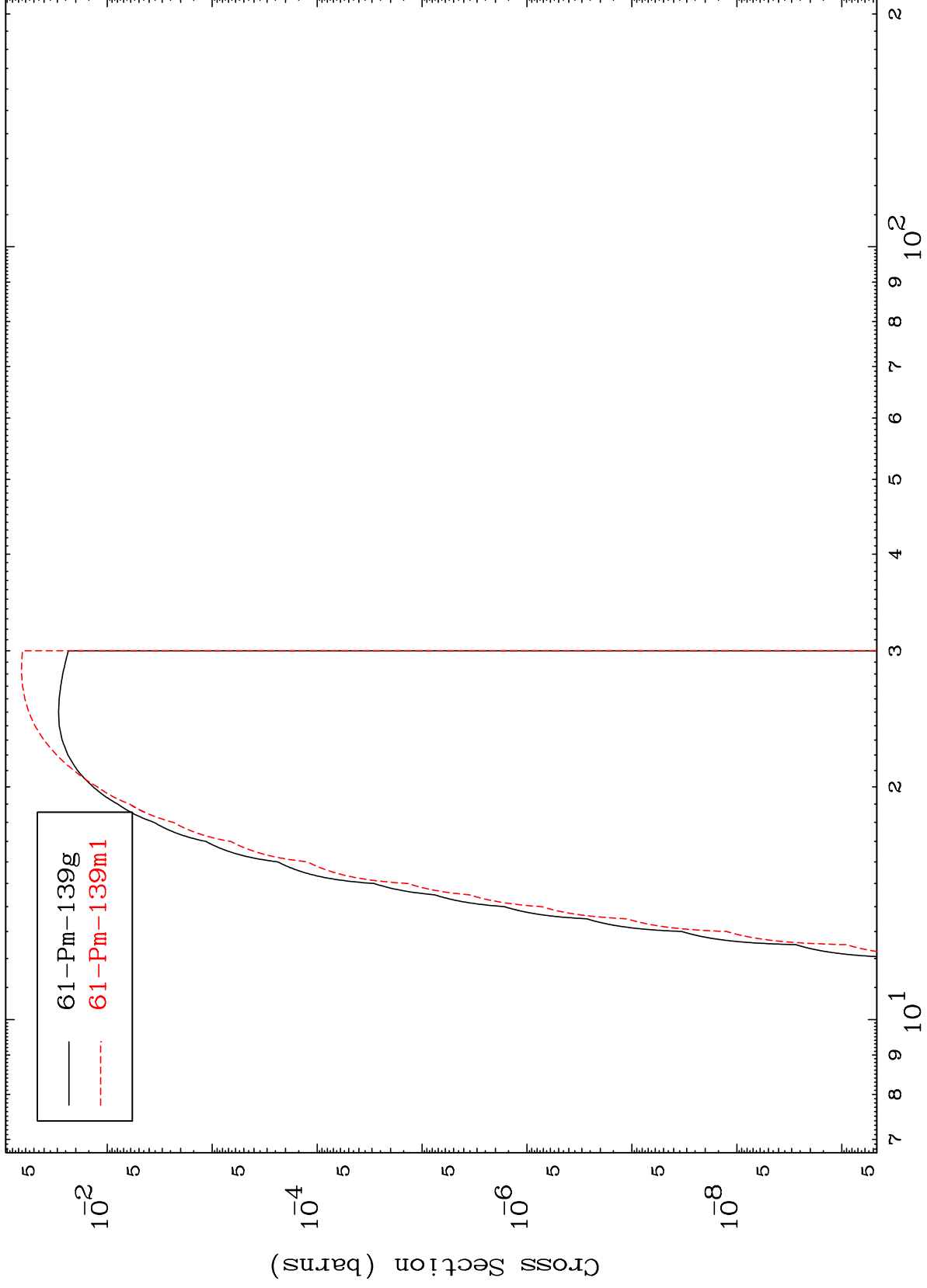
63-Eu-141

MAT 6295

(n,2n) p

63-Eu-141

Radionuclide Production Cross Section



125

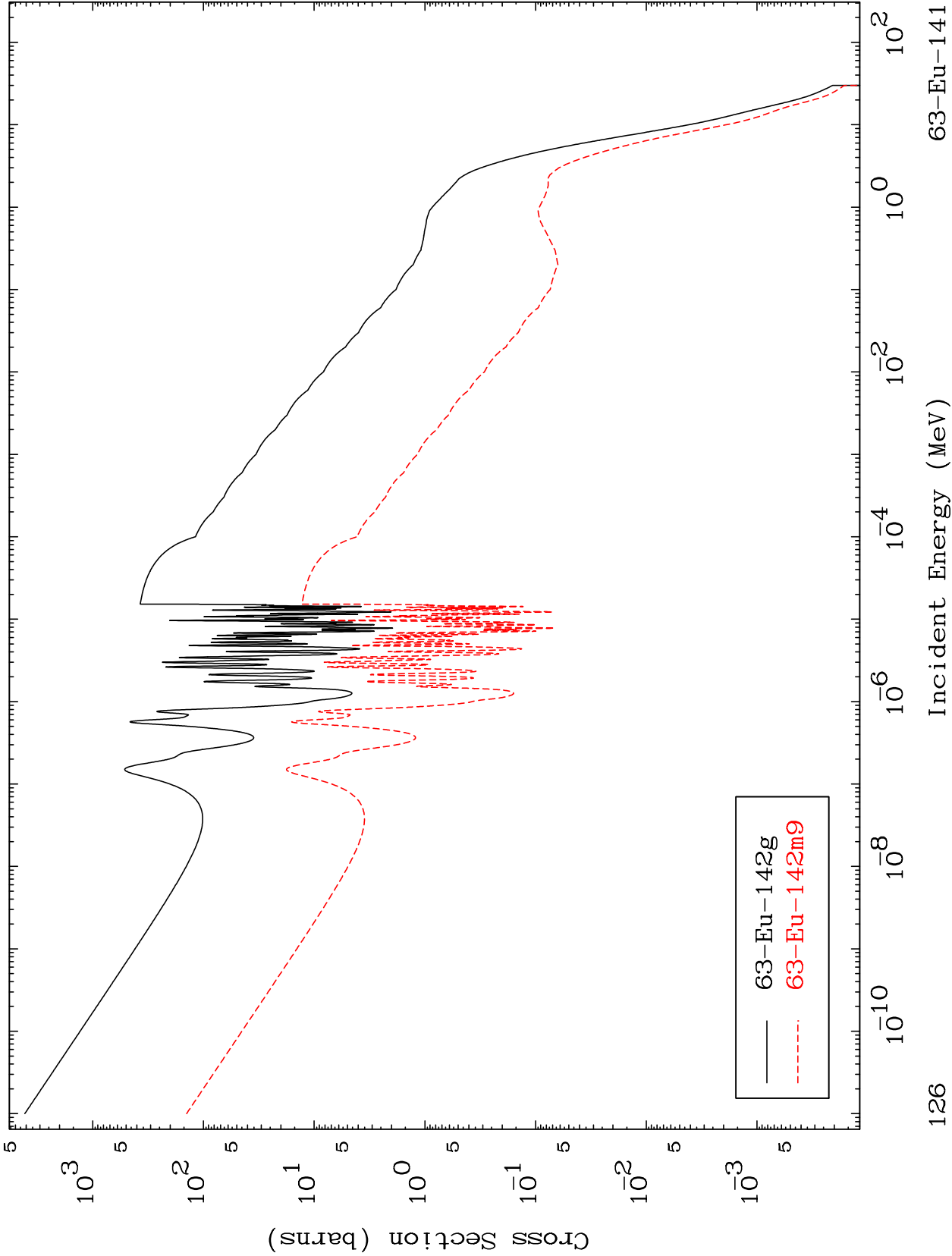
Incident Energy (MeV)

63-Eu-141

MAT 6295

63-Eu-141

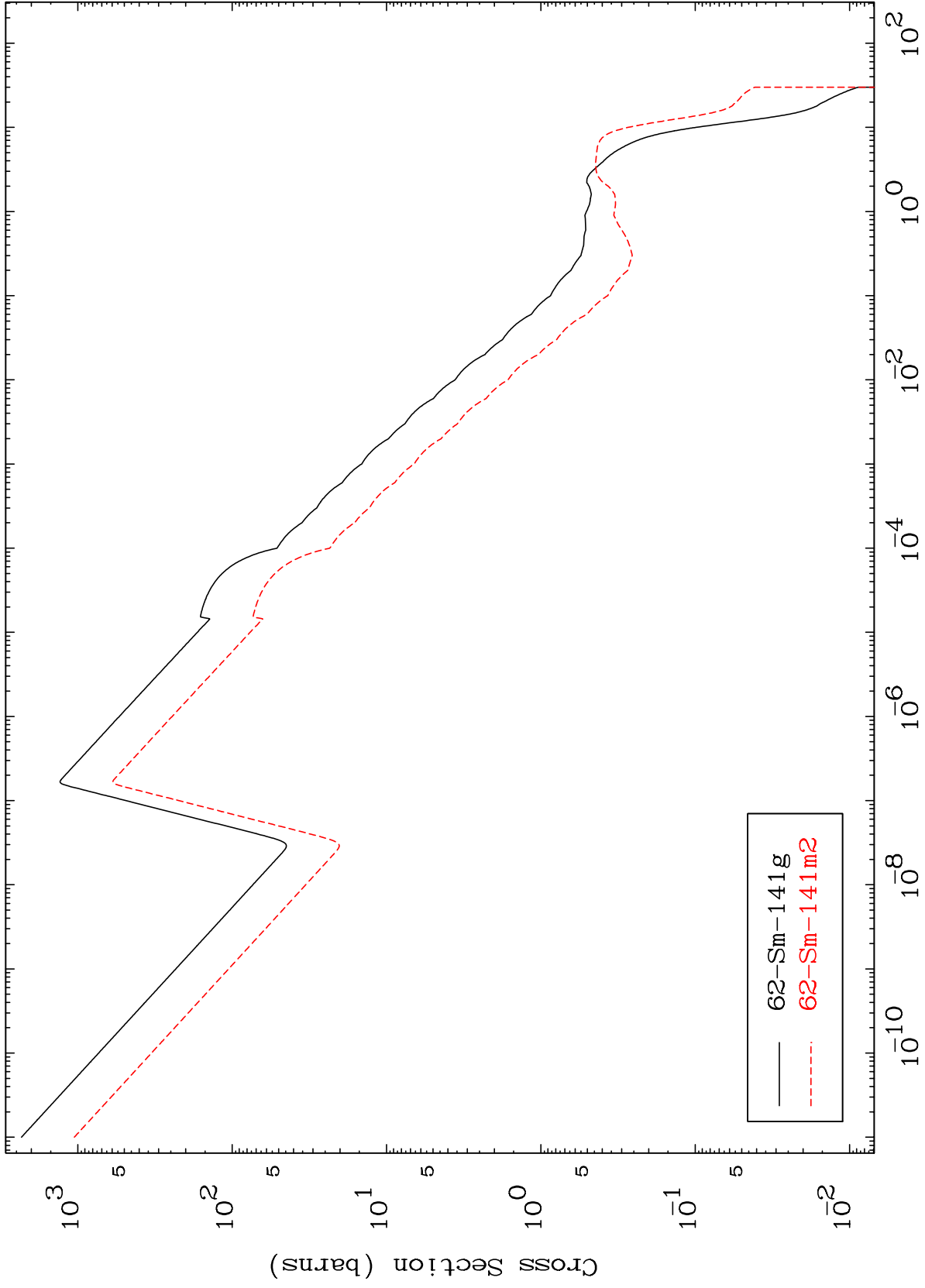
(n,  $\gamma$ )  
Radionuclide Production Cross Section



MAT 6295

63-Eu-141

(n,p)  
Radionuclide Production Cross Section



127

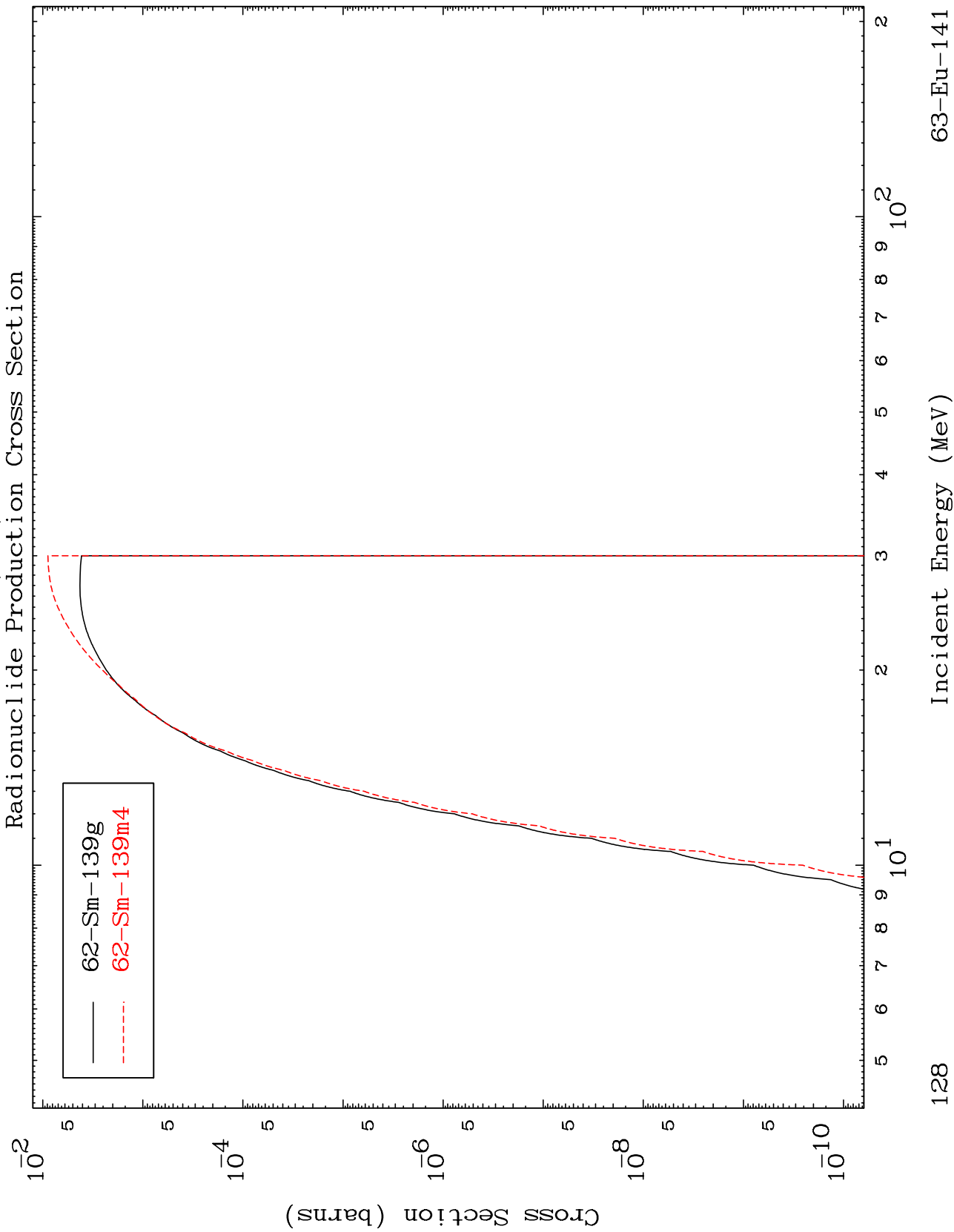
63-Eu-141

Incident Energy (MeV)



MAT 6295

63-Eu-141

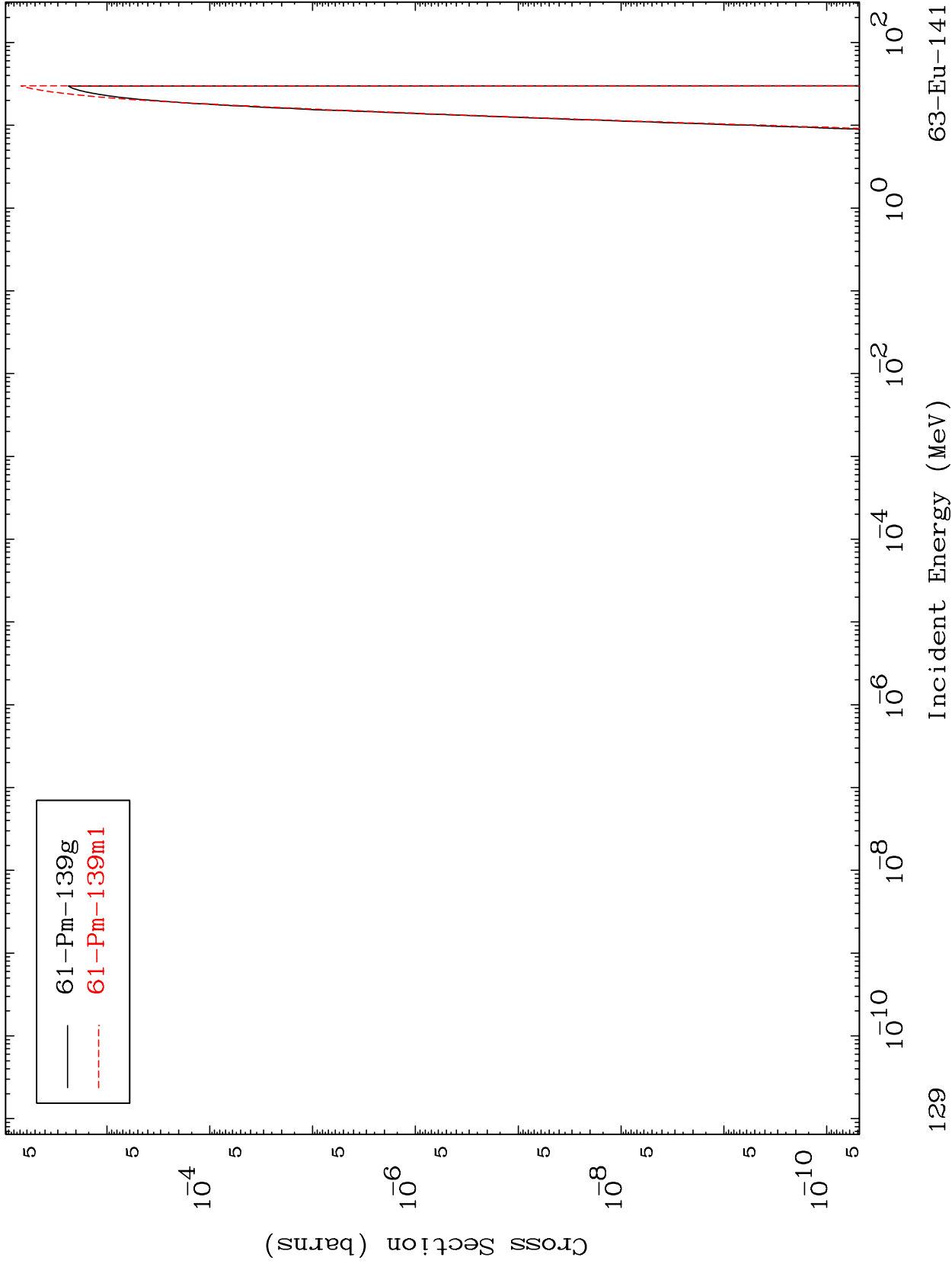


MAT 6295

(n,He-3)

63-Eu-141

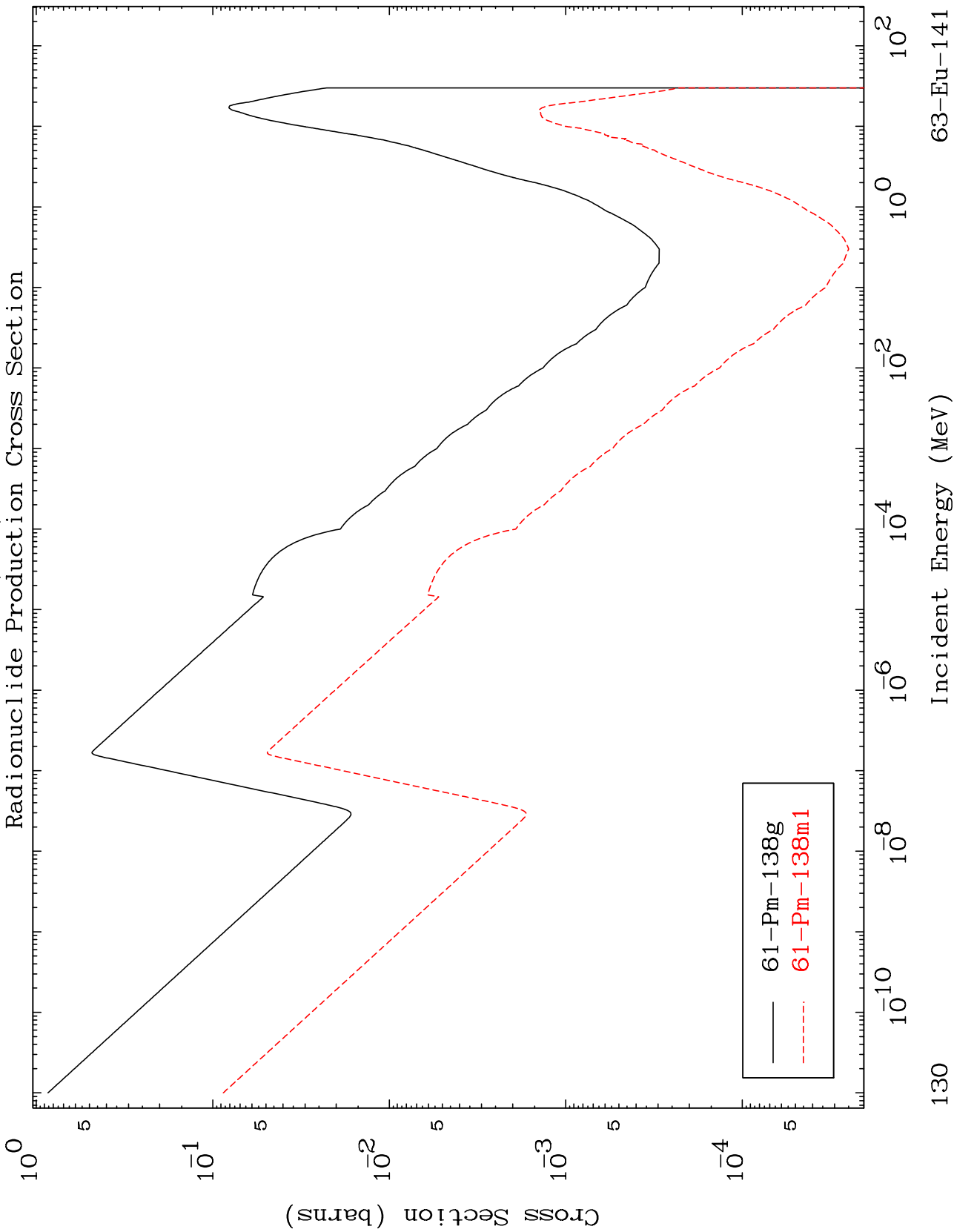
Radionuclide Production Cross Section



MAT 6295

63-Eu-141

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



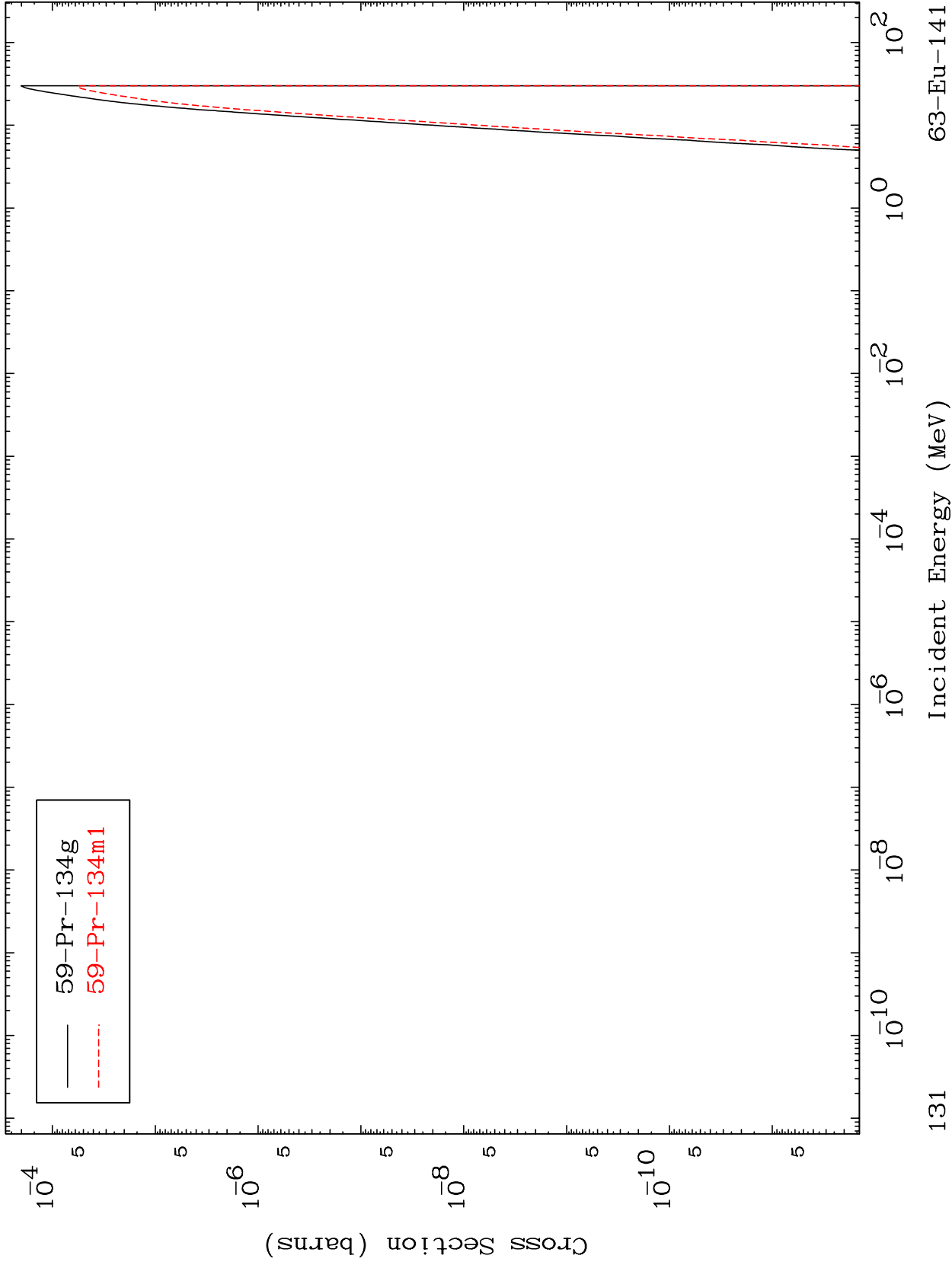
130

MAT 6295

(n,2α)

63-Eu-141

Radionuclide Production Cross Section



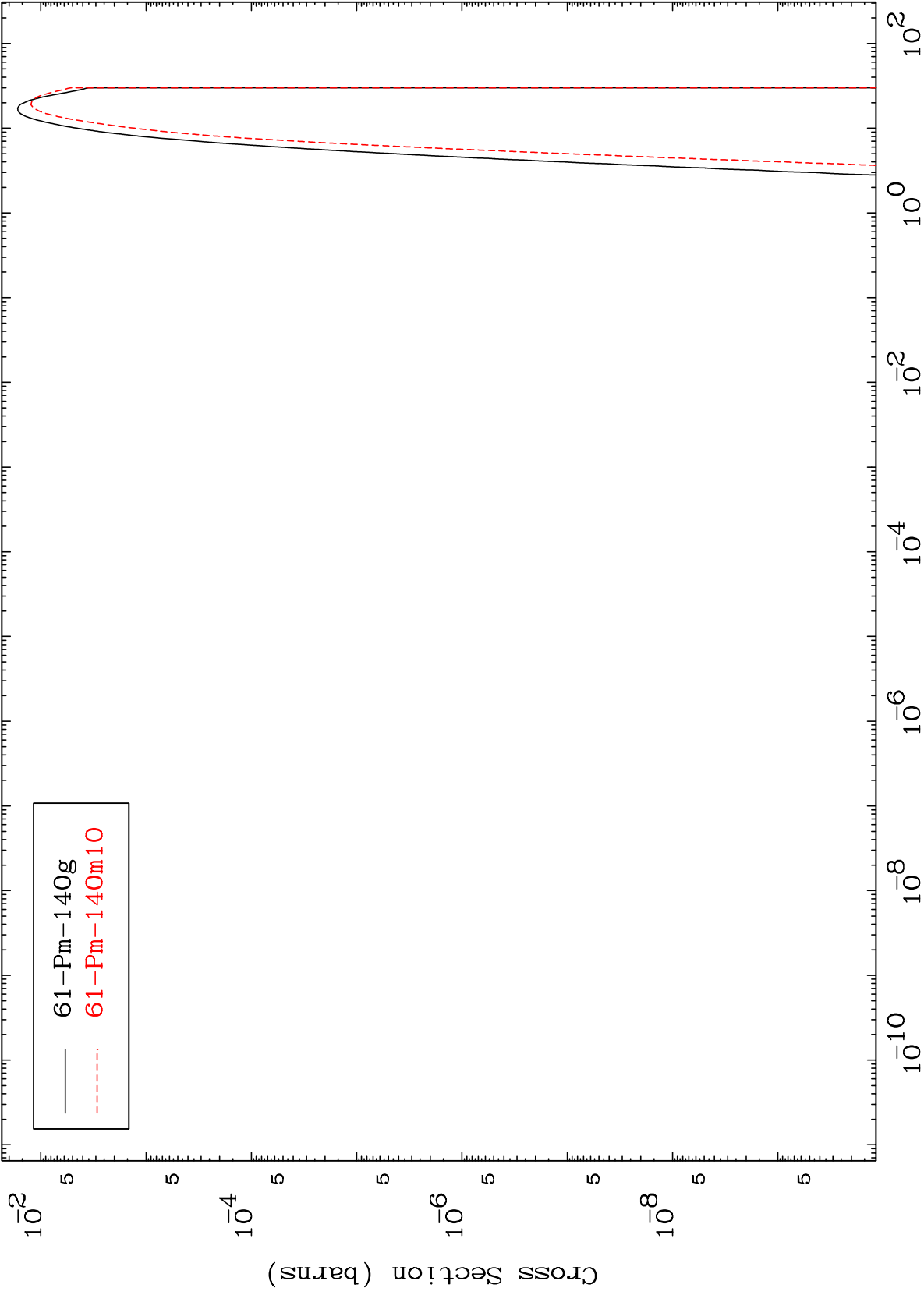
131

MAT 6295

(n,2p)

63-Eu-141

Radionuclide Production Cross Section



132

Incident Energy (MeV)

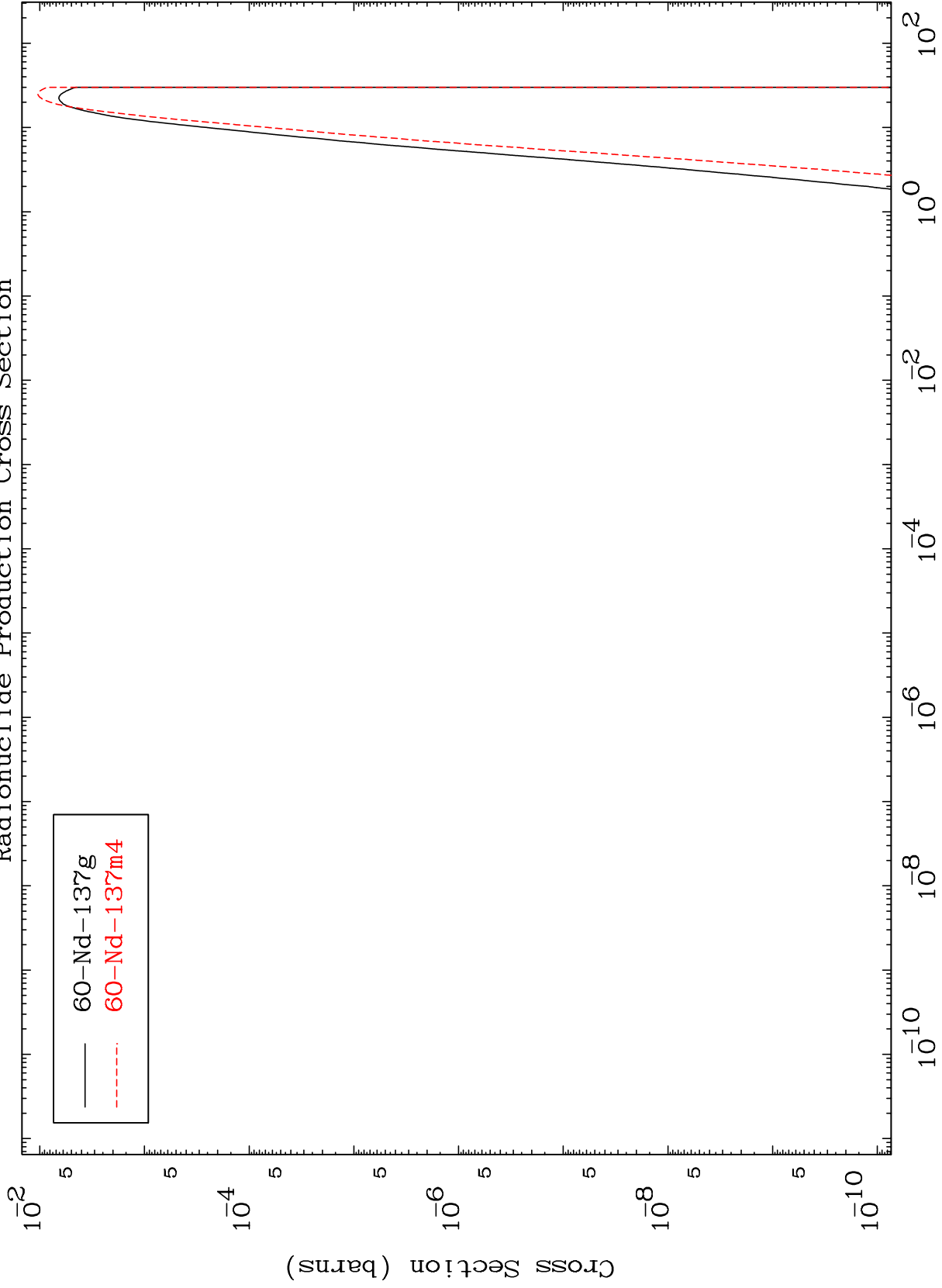
63-Eu-141

MAT 6295

(n,p)  $\alpha$

<sup>63</sup>Eu-141

Radionuclide Production Cross Section



133

Incident Energy (MeV)

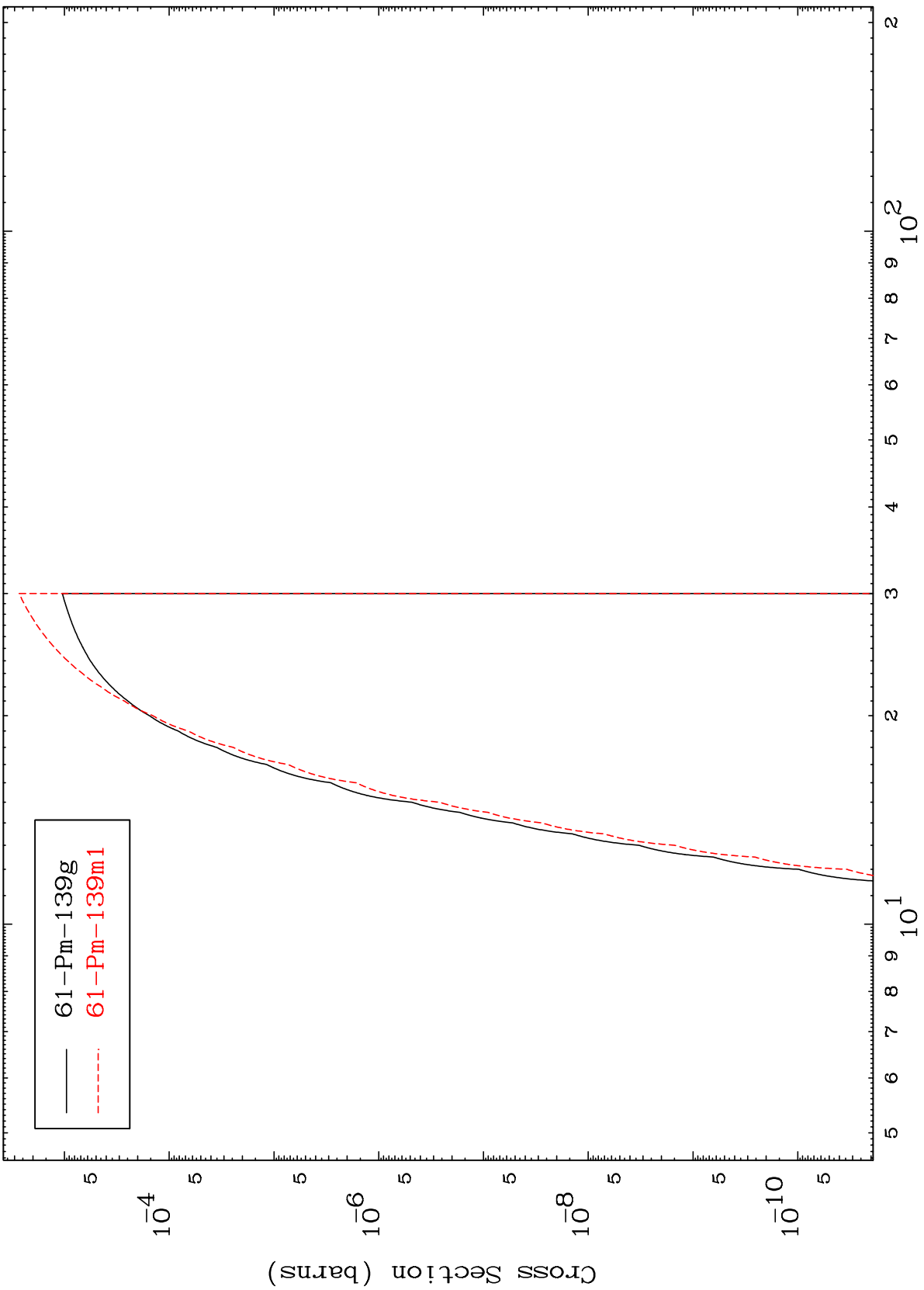
<sup>63</sup>Eu-141

MAT 6295

(n,p) d

63-Eu-141

Radionuclide Production Cross Section



134

Incident Energy (MeV)

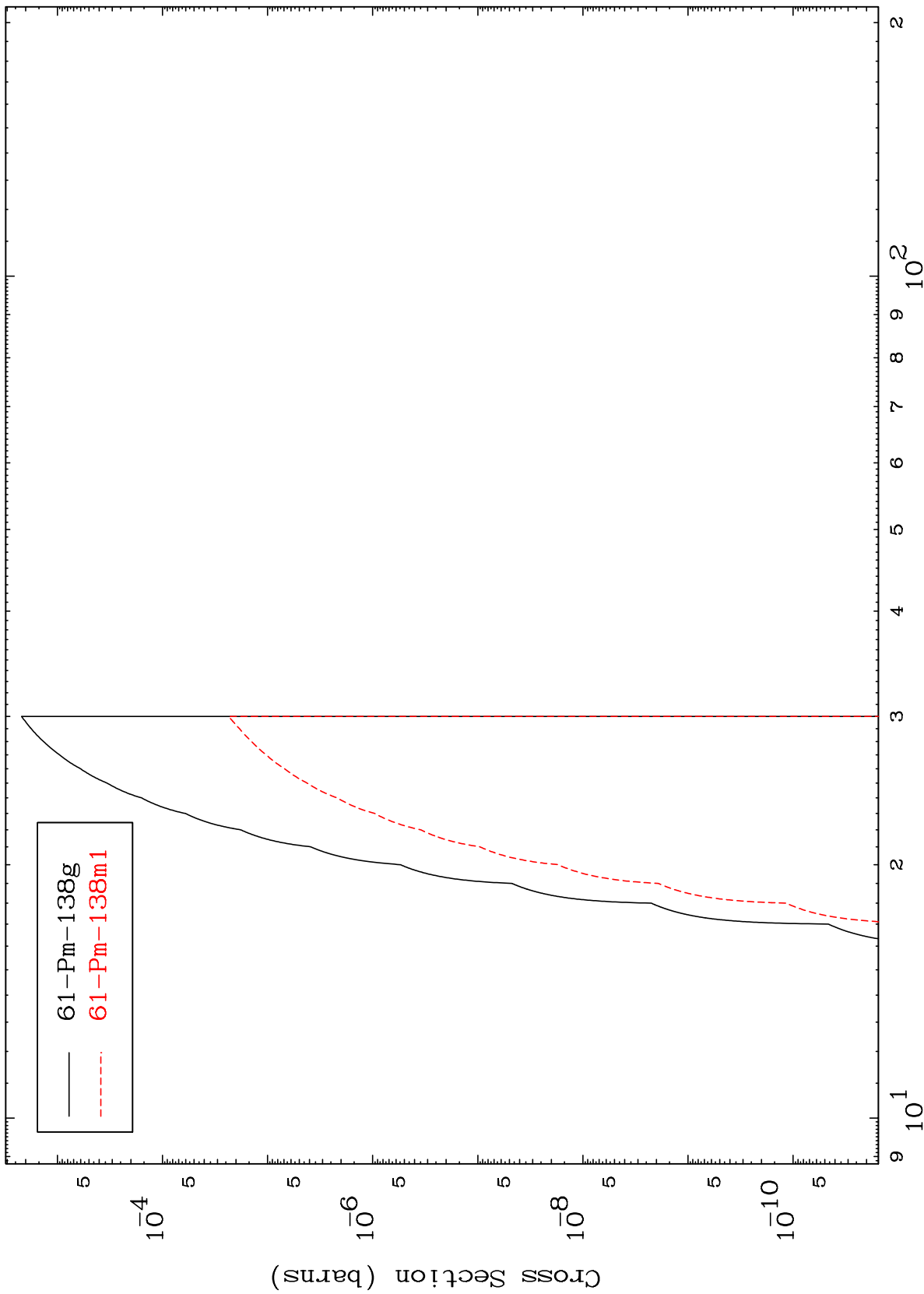
63-Eu-141

MAT 6295

(n,p) t

63-Eu-141

Radionuclide Production Cross Section



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

Incident Energy (MeV)

63-Eu-141

135