

Program EVALPLOT  
(Version 2018-1)

by

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(Present Contact Information)

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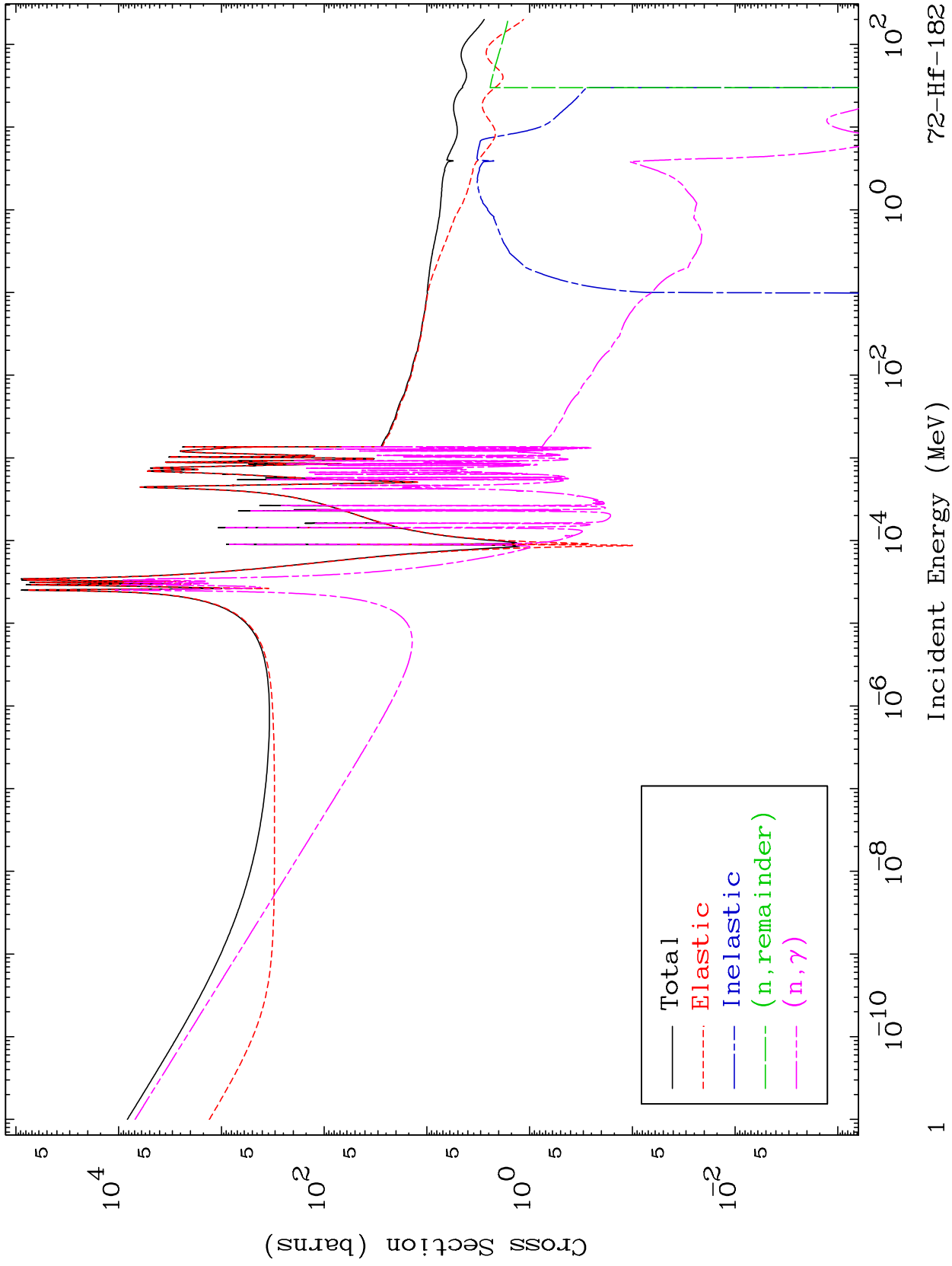
E.Mail:redcullen1@comcast.net  
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 7249

Major  
293 Kelvin Cross Sections

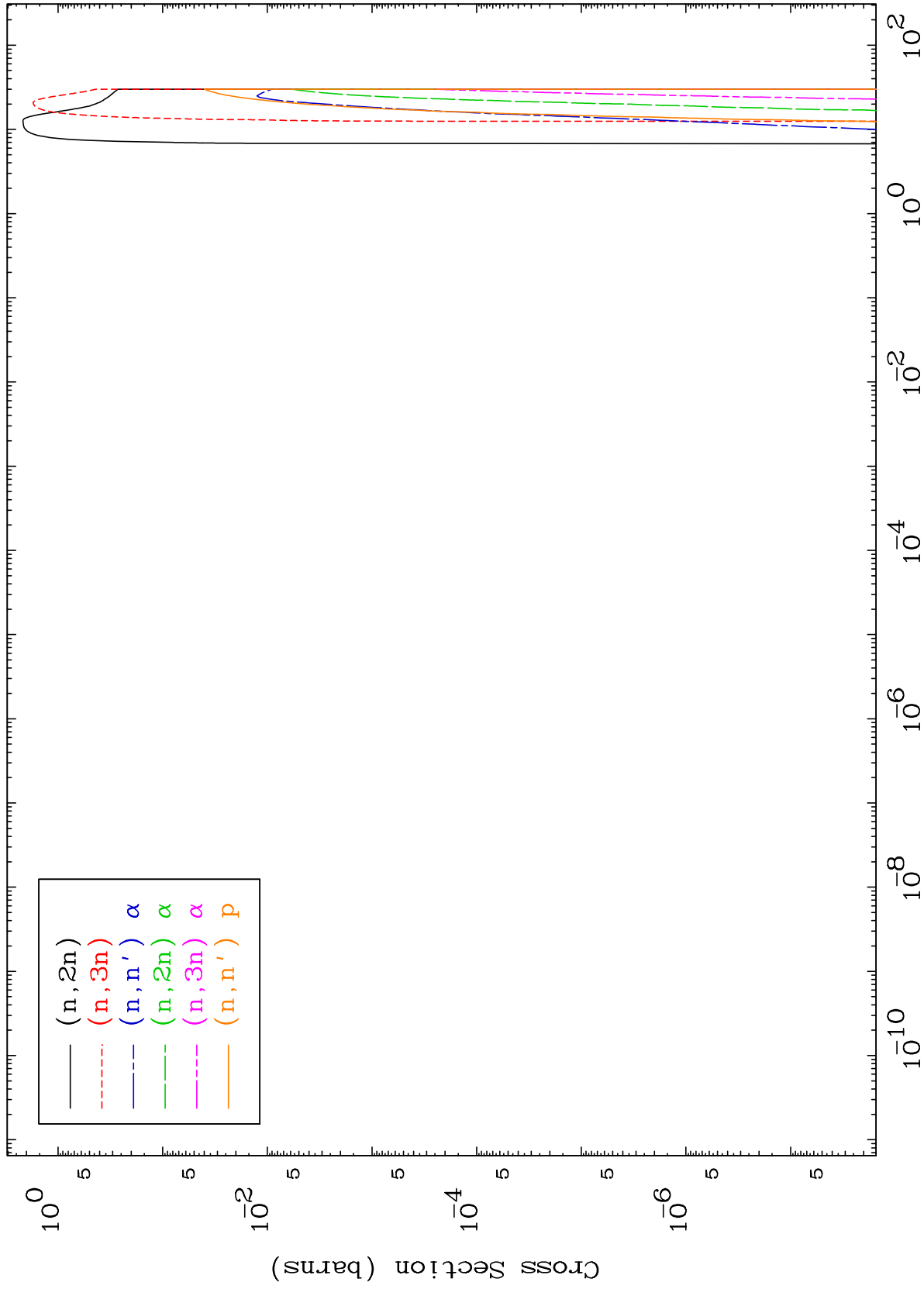
72-Hf-182



MAT 7249

Neutron Production  
293 Kelvin Cross Sections

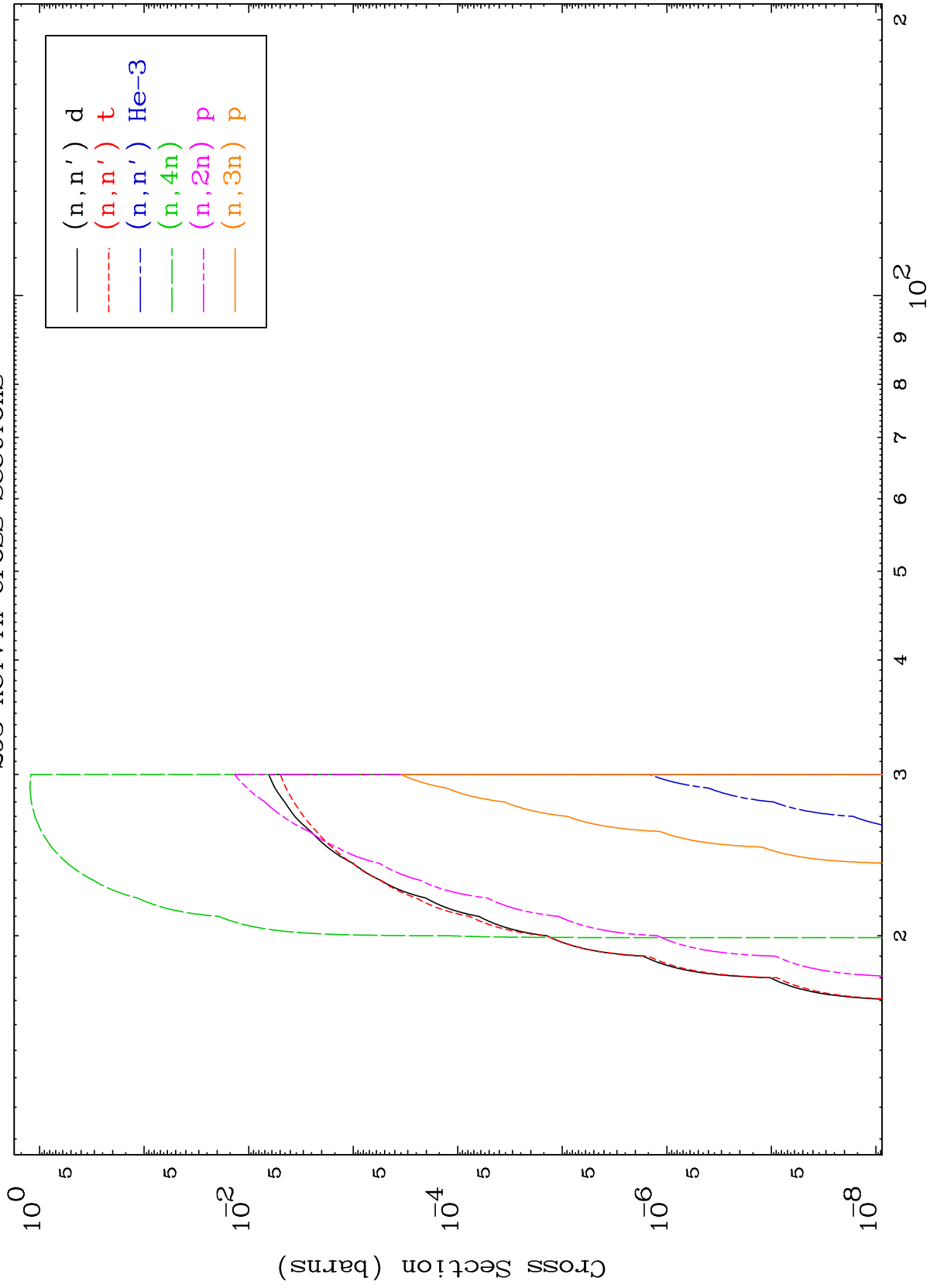
72-Hf-182



2

Incident Energy (MeV)

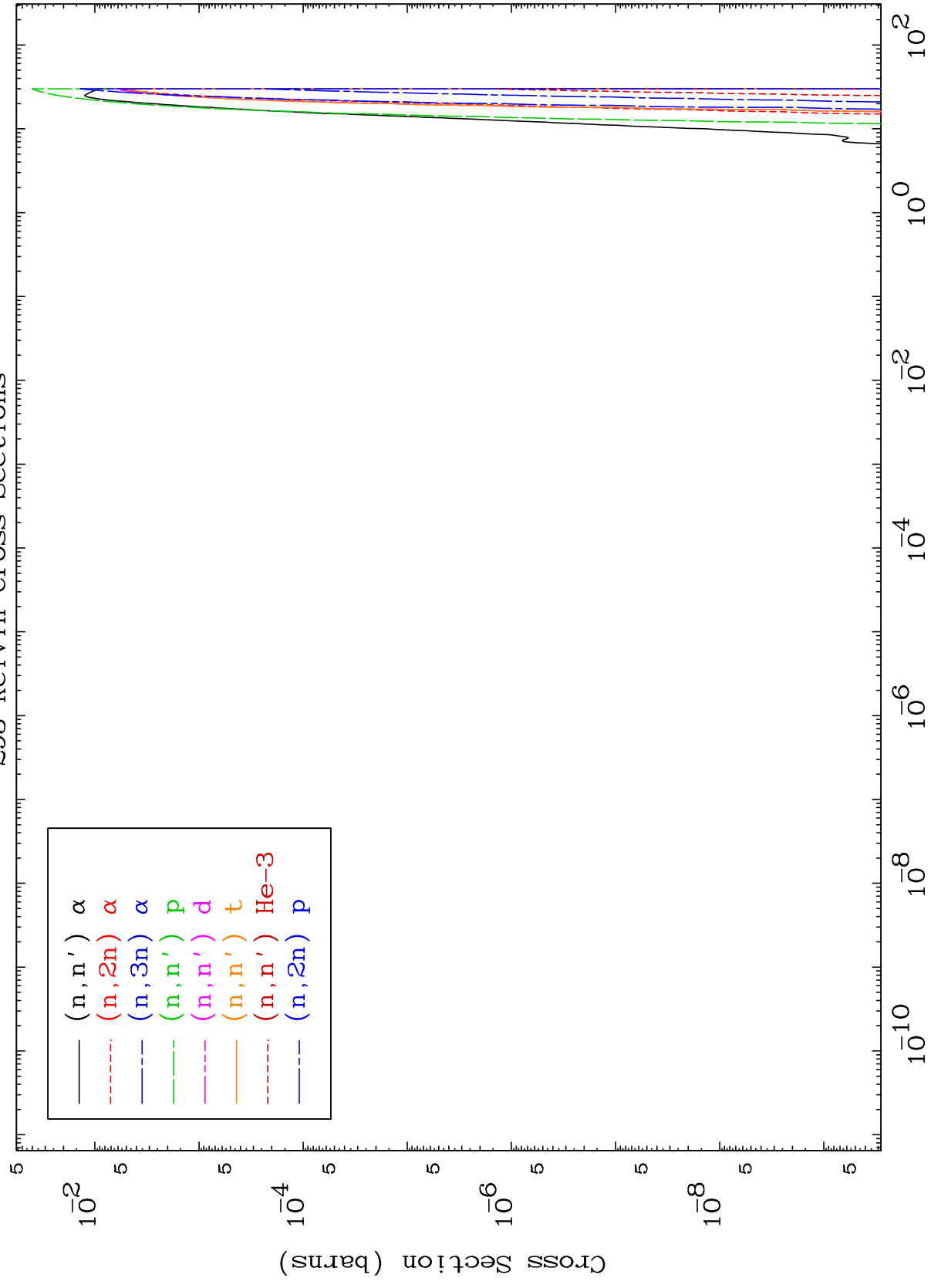
72-Hf-182



MAT 7249

293 Kelvin Cross Sections  
Charged Particle

72-Hf-182

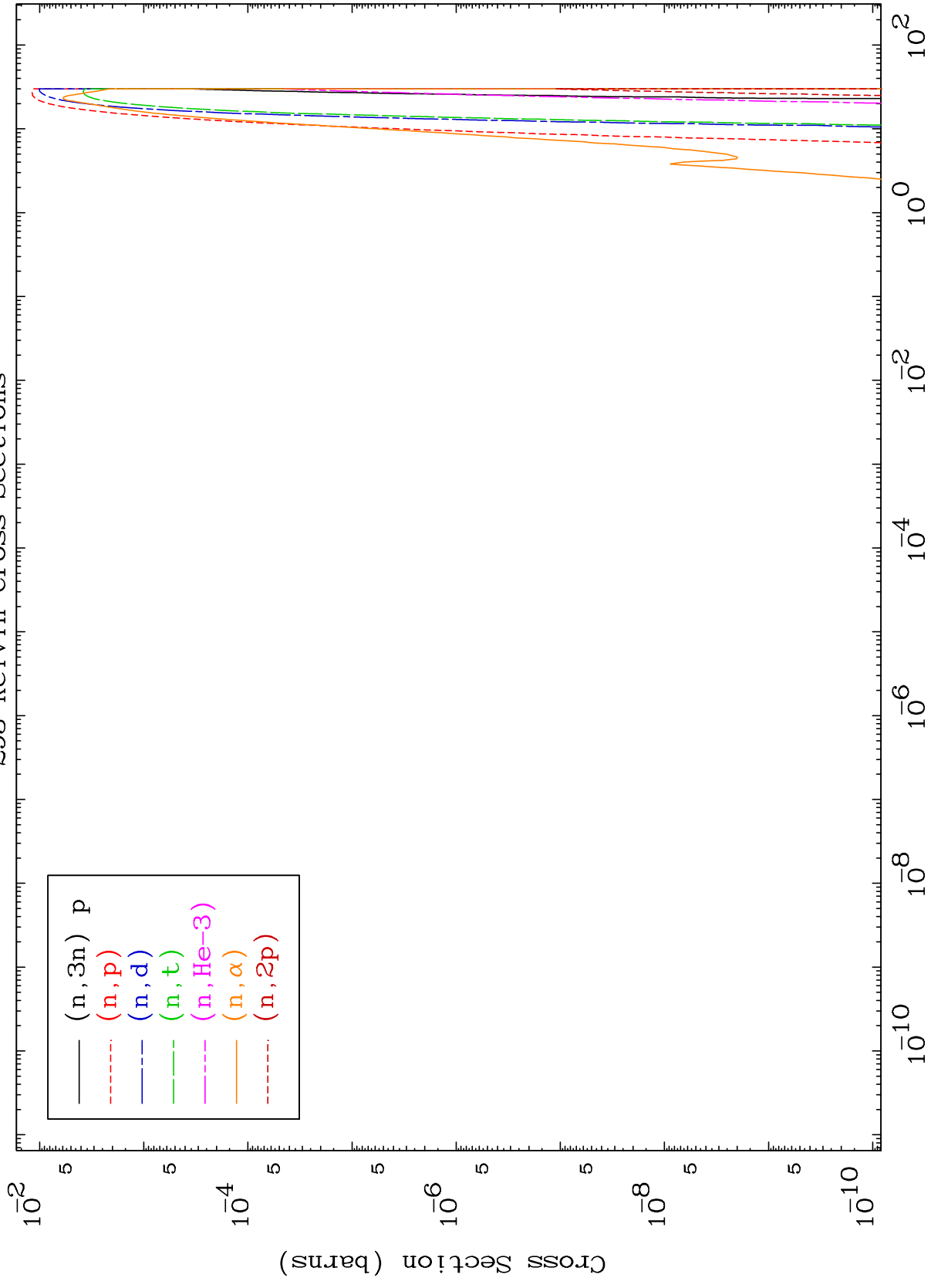


72-Hf-182

MAT 7249

293 Kelvin Cross Sections

72-Hf-182



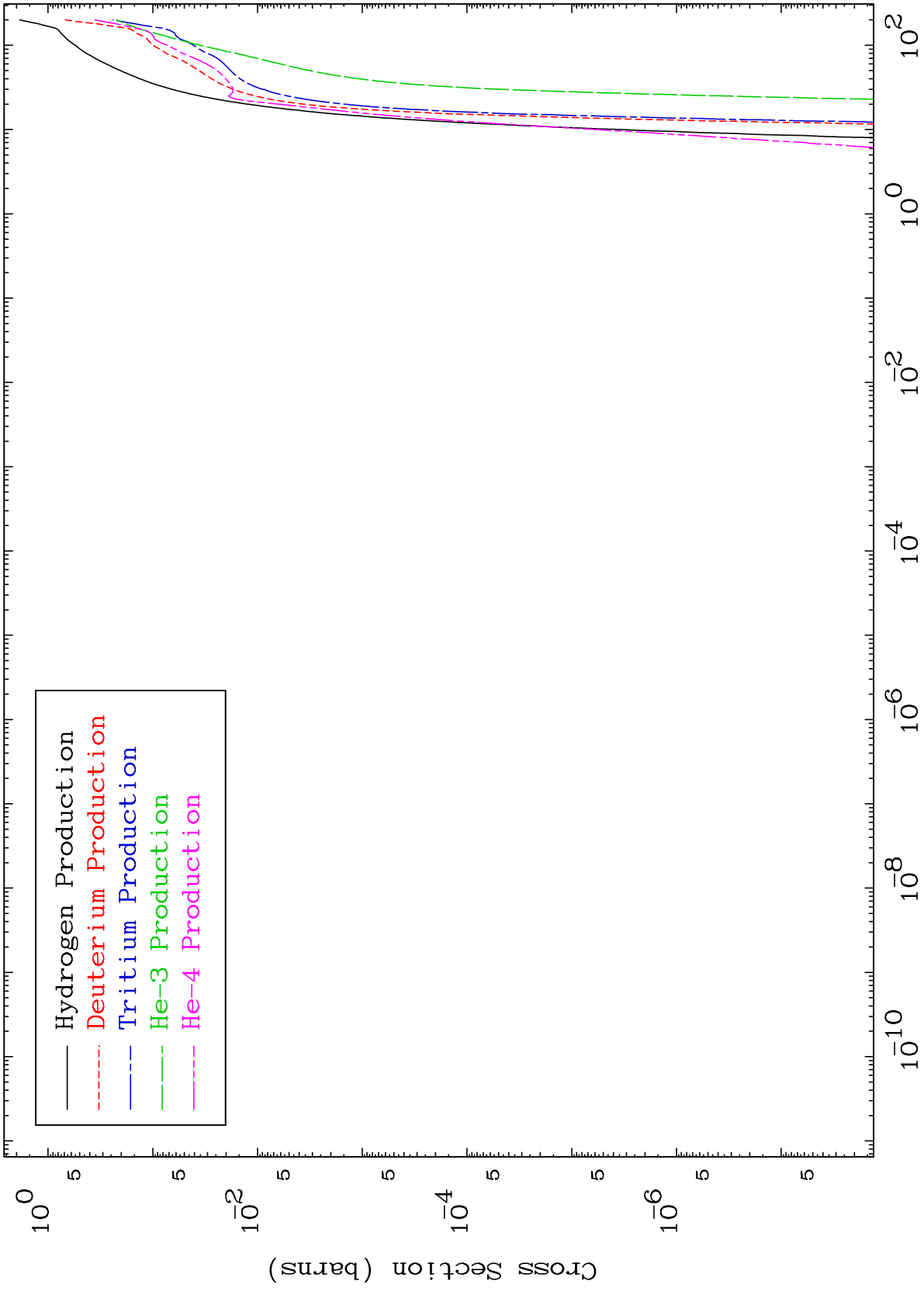
5

72-Hf-182

MAT 7249

Particle Production  
293 Kelvin Cross Sections

72-Hf-182



6

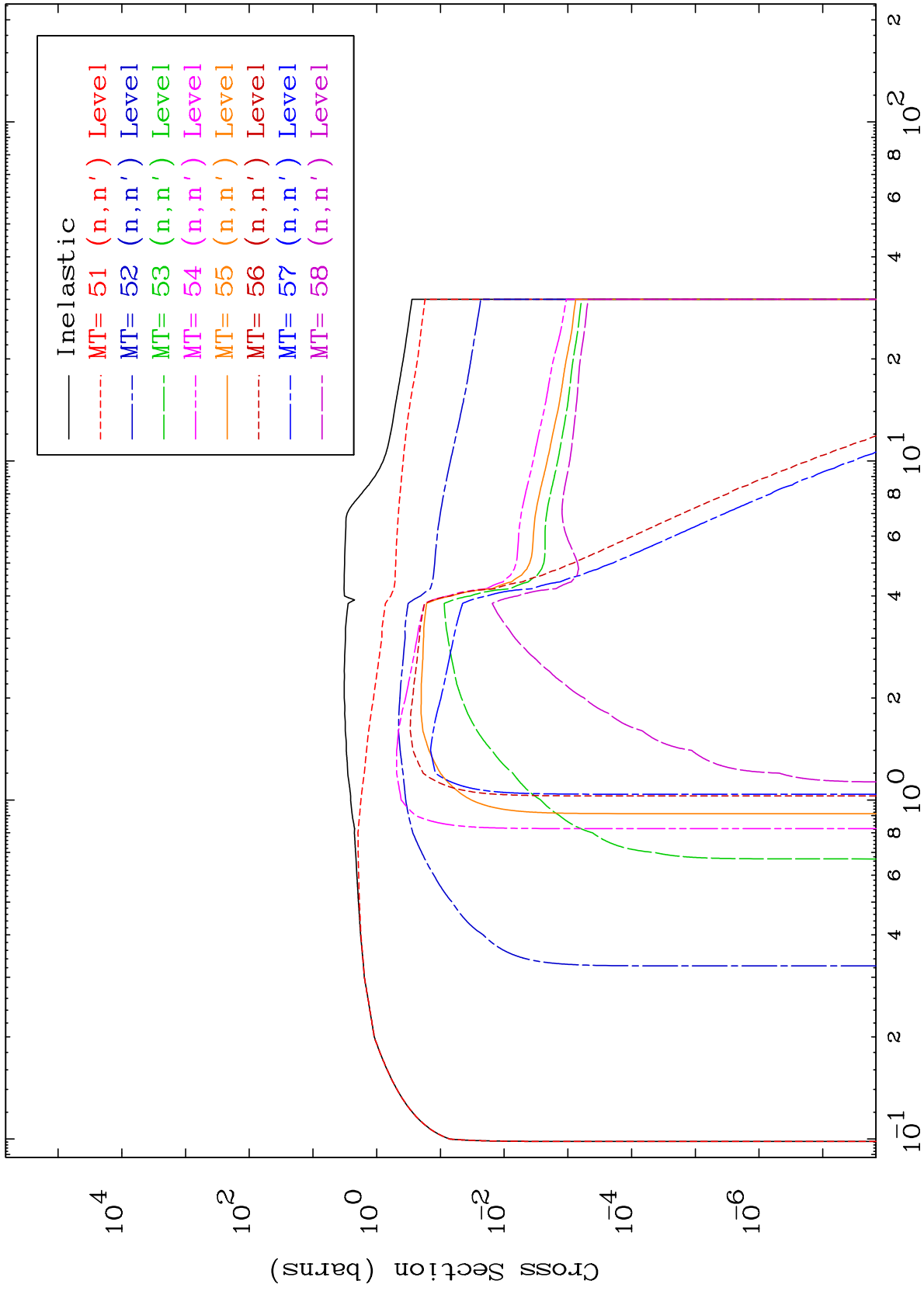
Incident Energy (MeV)

72-Hf-182

MAT 7249

(n,n') Level  
293 Kelvin Cross Sections

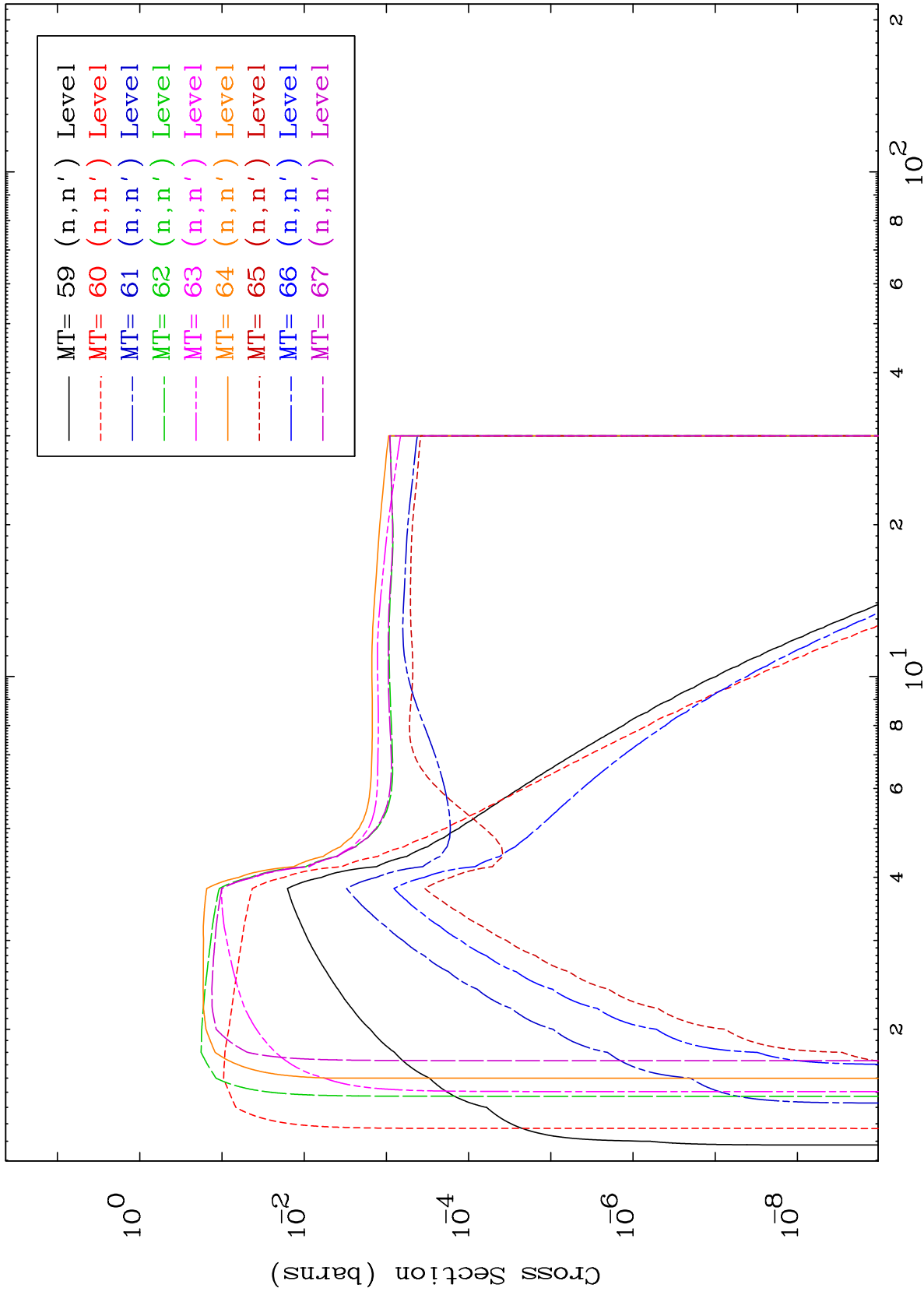
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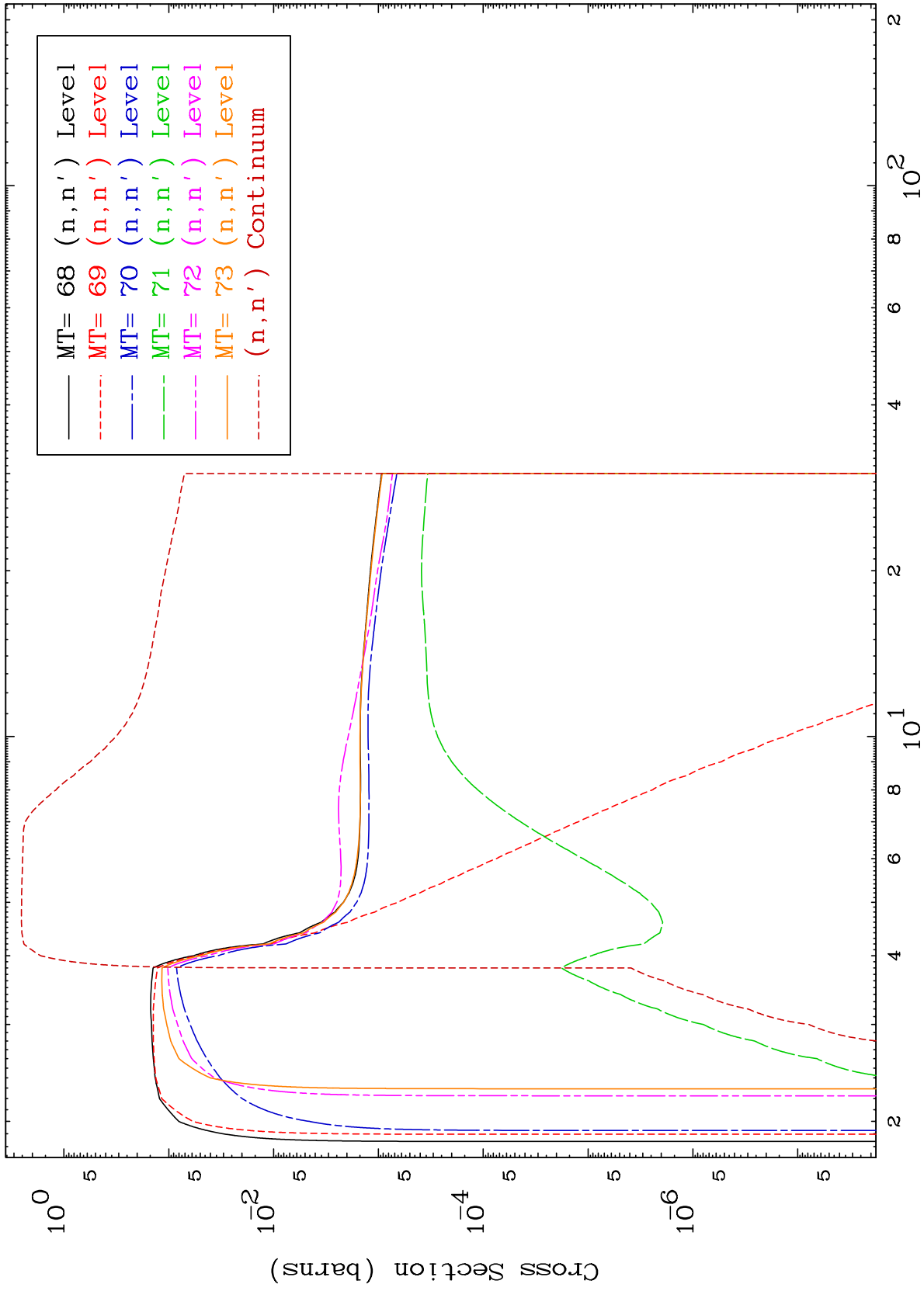


Incident Energy (MeV)

72-Hf-182



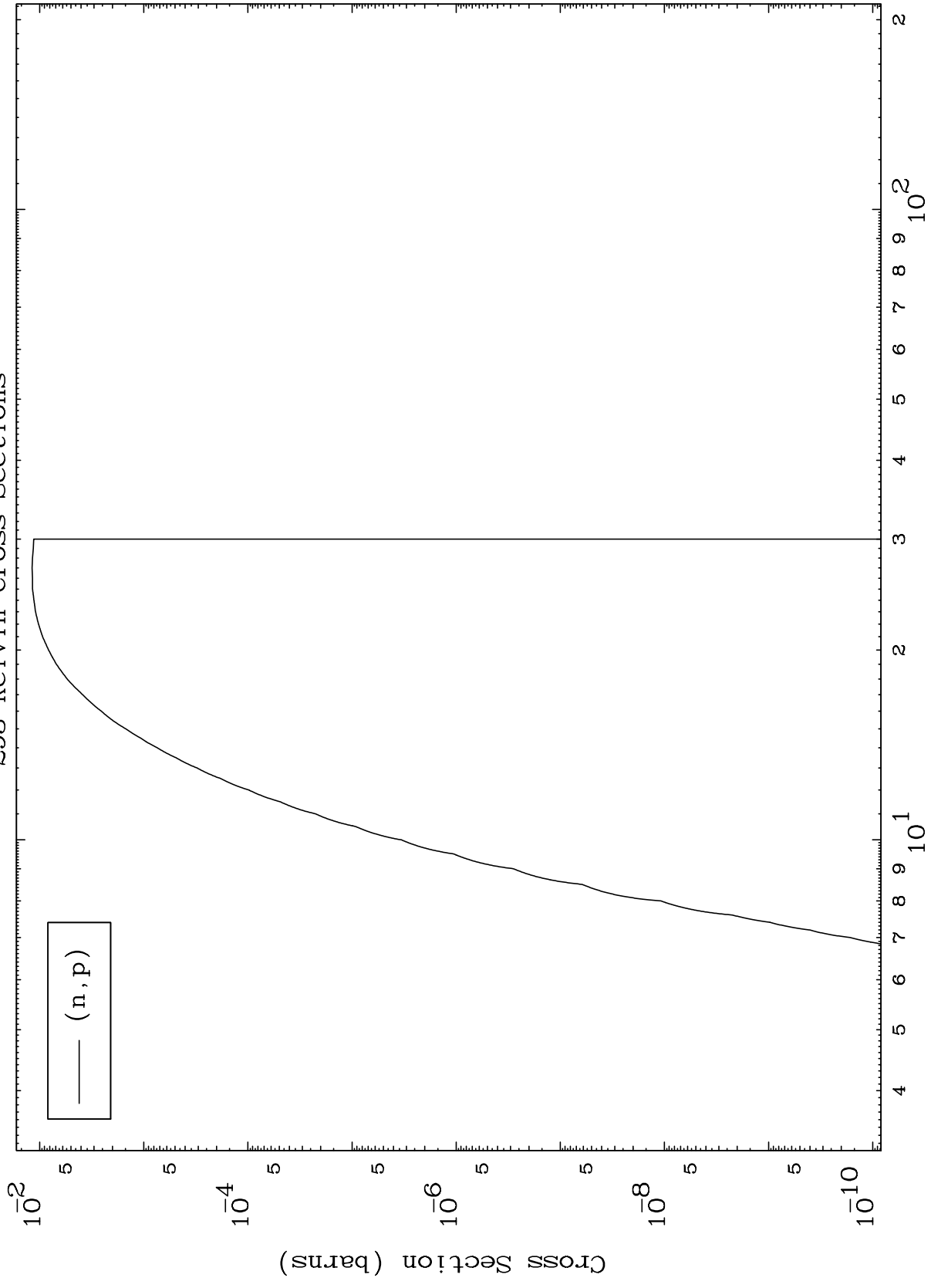




MAT 7249

(n,p) Levels  
293 Kelvin Cross Sections

72-Hf-182



10

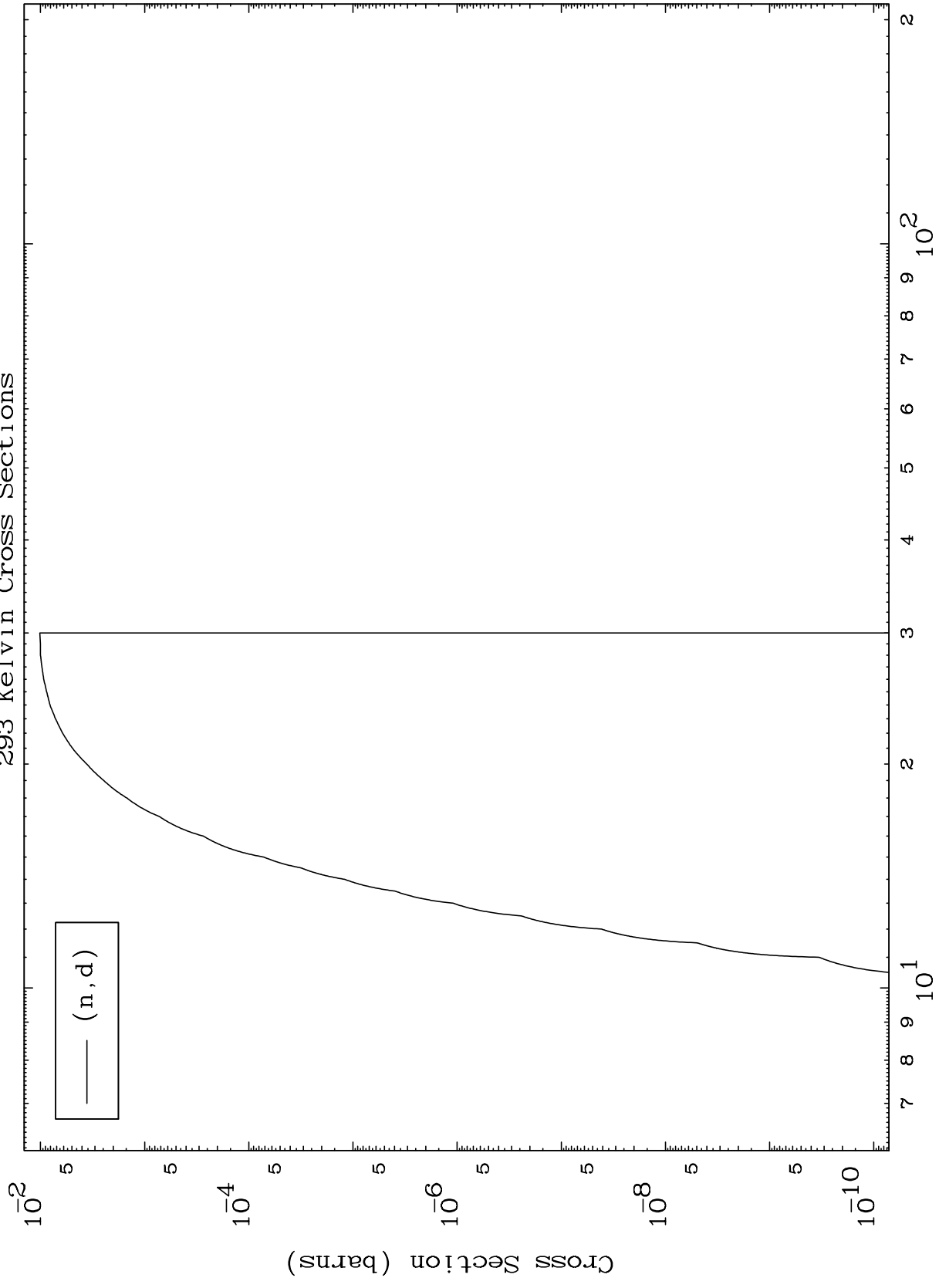
Incident Energy (MeV)

72-Hf-182

MAT 7249

(n,d) Levels  
293 Kelvin Cross Sections

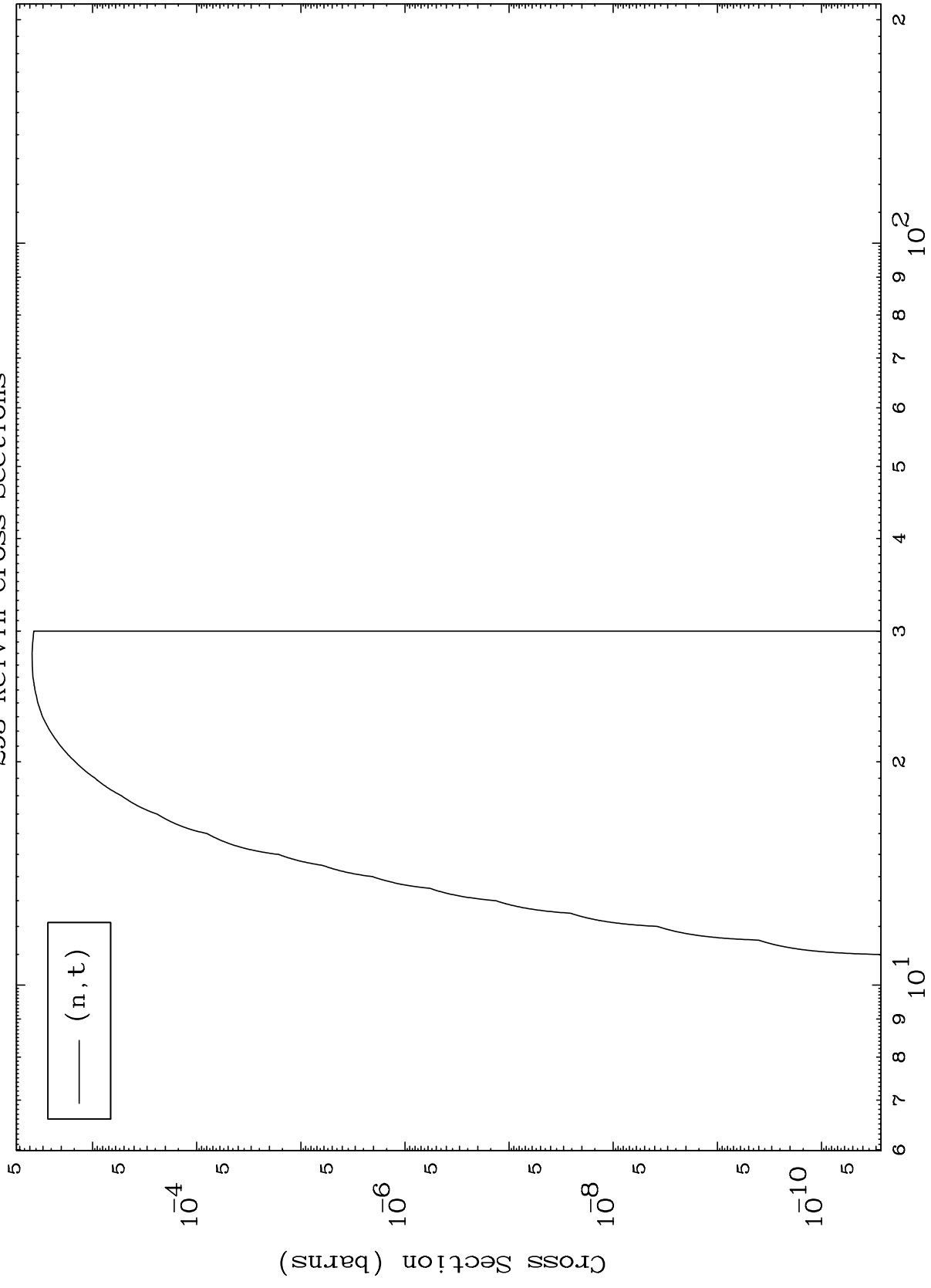
72-Hf-182



MAT 7249

(n,t) Levels  
293 Kelvin Cross Sections

72-Hf-182



(n, t)

12

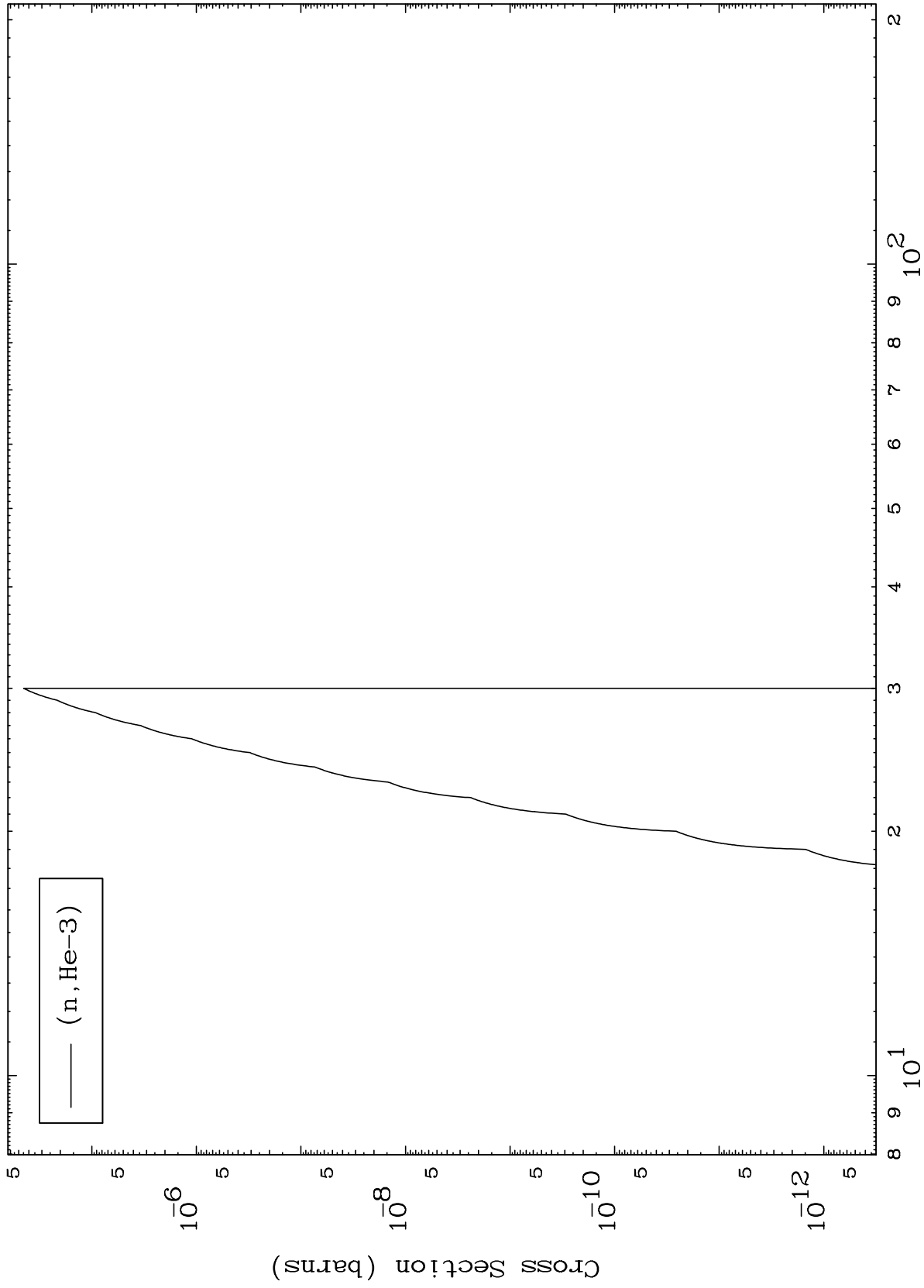
Incident Energy (MeV)

72-Hf-182

MAT 7249

(n,He3) Levels  
293 Kelvin Cross Sections

72-Hf-182



13

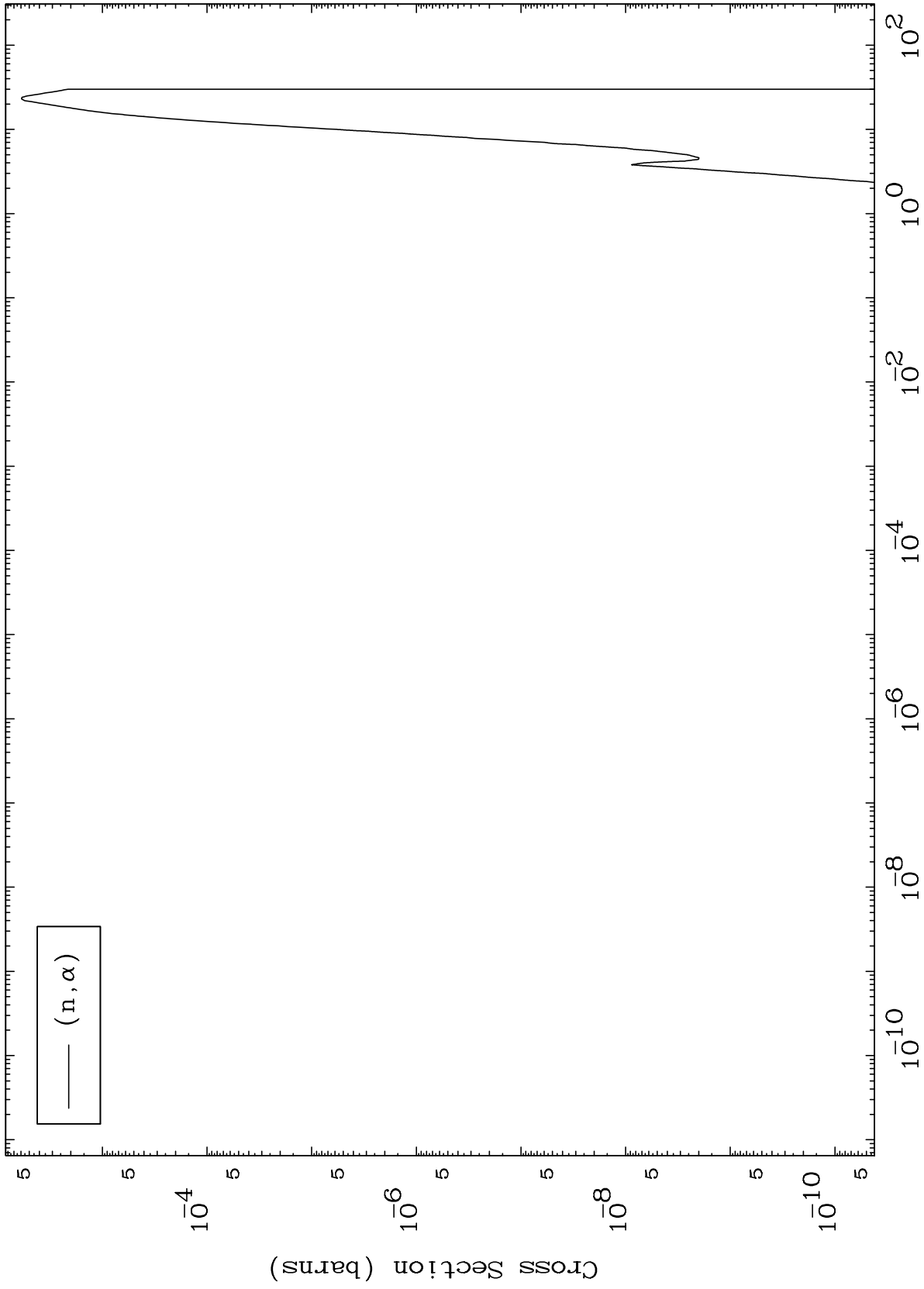
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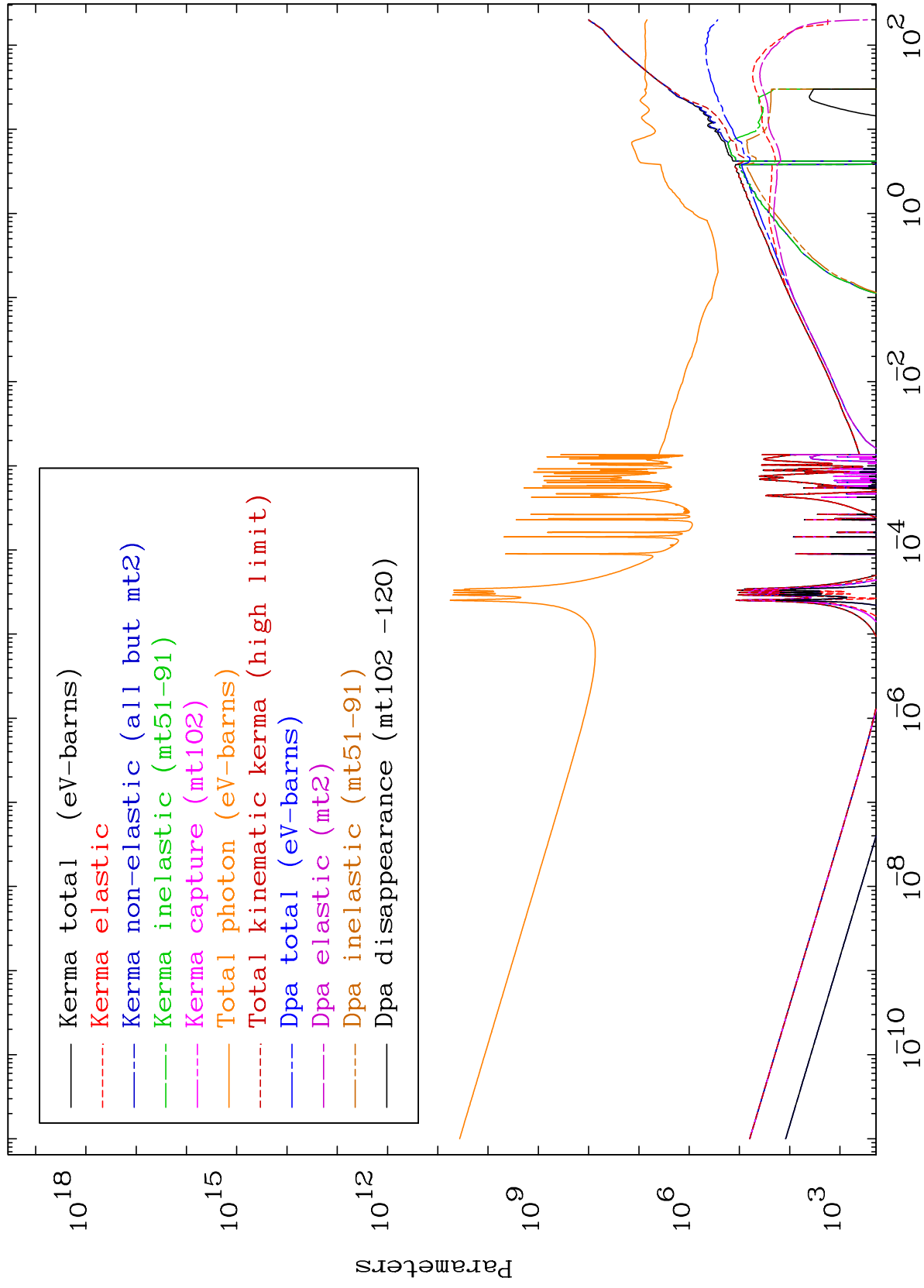
72-Hf-182

MAT 7249

(n,α) Levels  
293 Kelvin Cross Sections

72-Hf-182



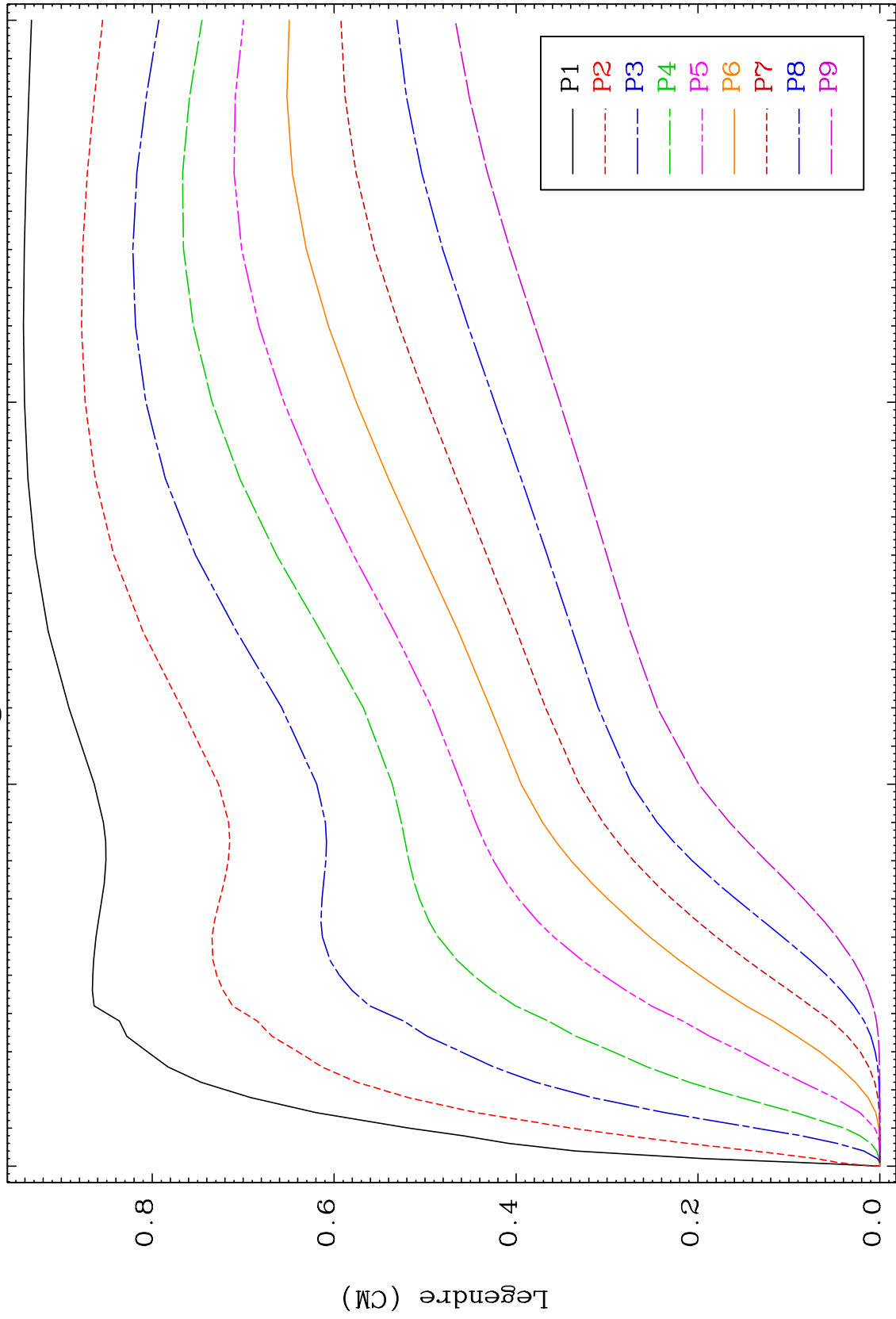




MAT 7249

Elastic Legendre Coefficients

72-Hf-182



16

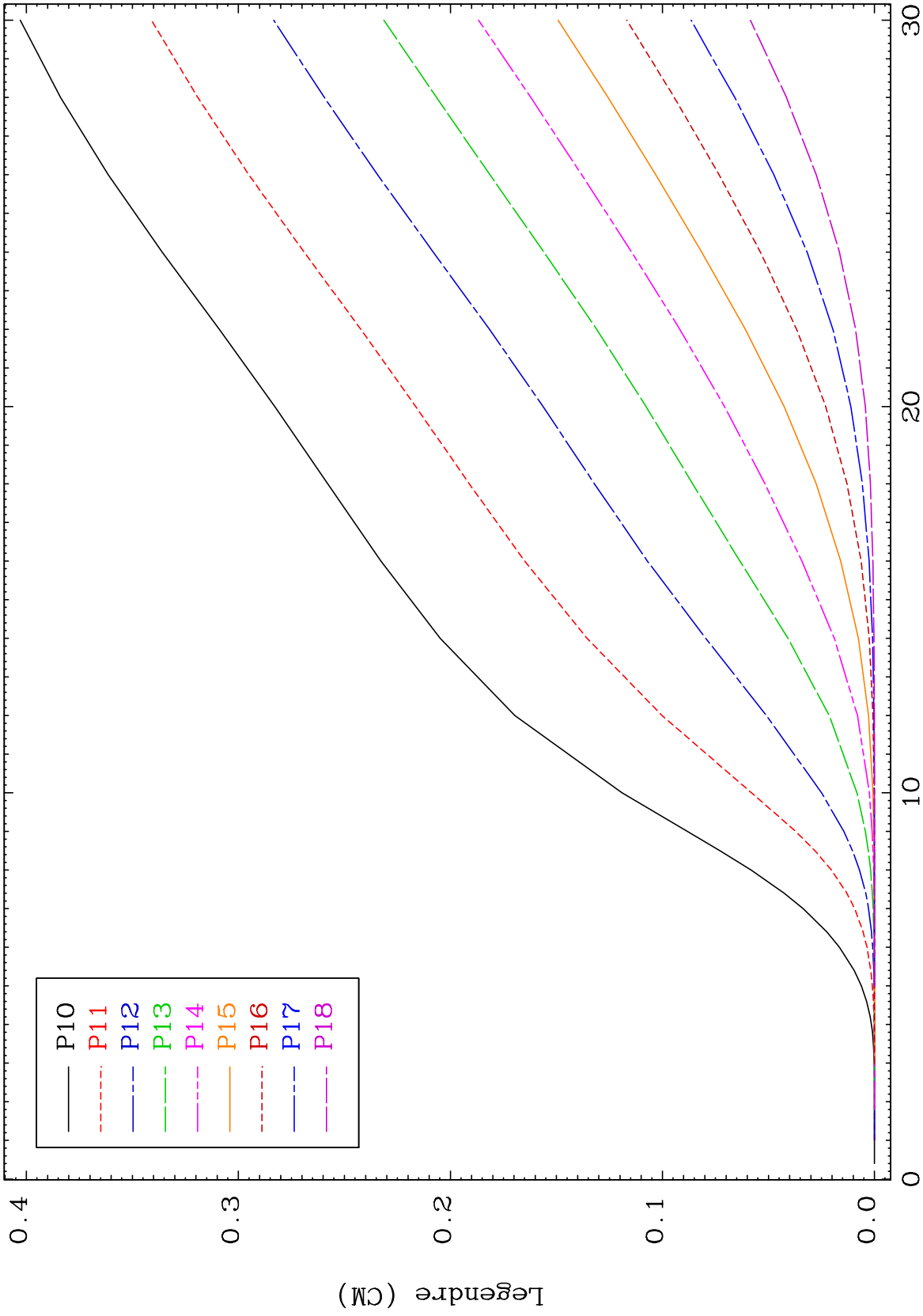
Incident Energy (MeV)

72-Hf-182

MAT 7249

Elastic Legendre Coefficients

72-Hf-182



17

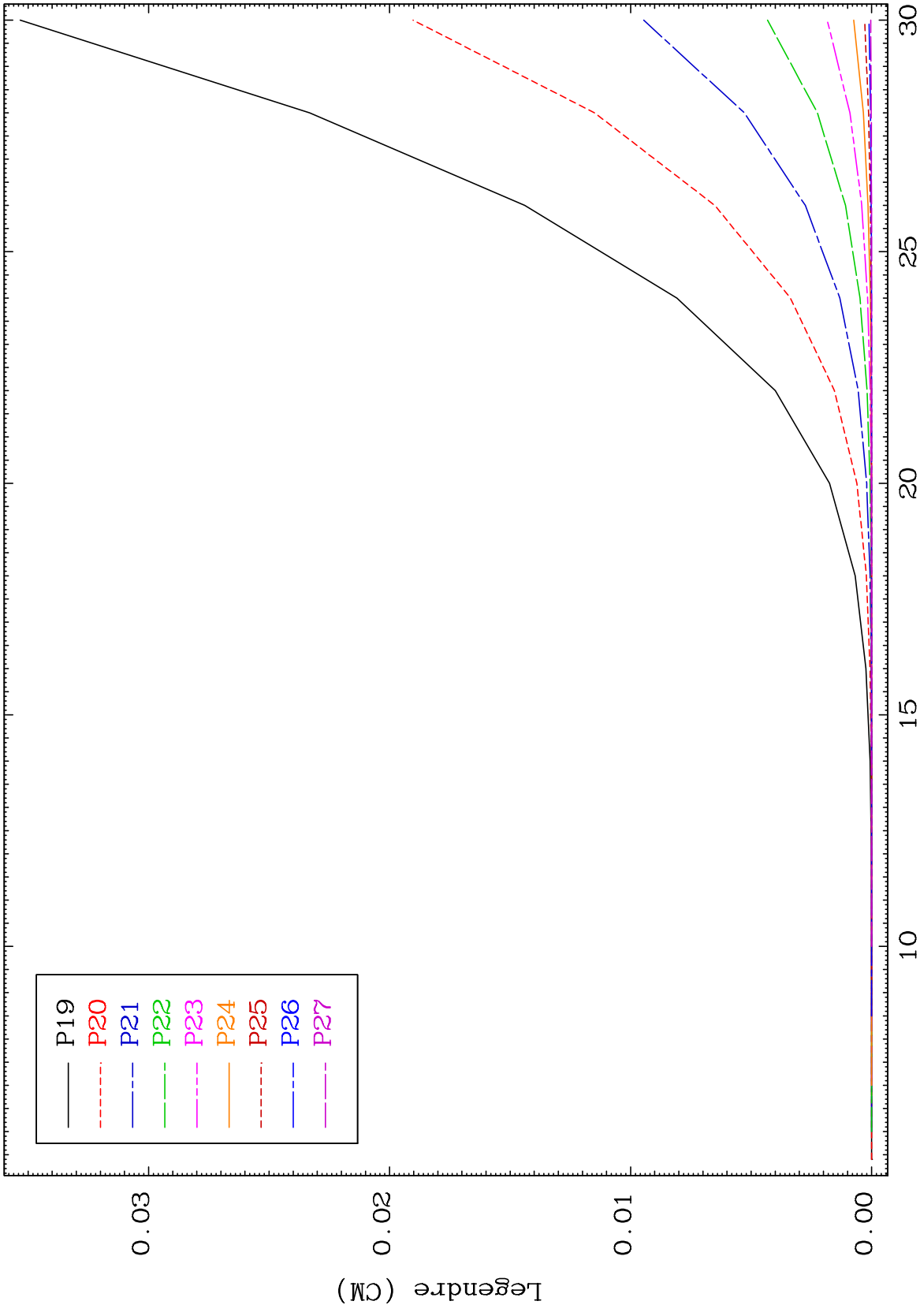
Incident Energy (MeV)

72-Hf-182

MAT 7249

Elastic Legendre Coefficients

72-Hf-182



18

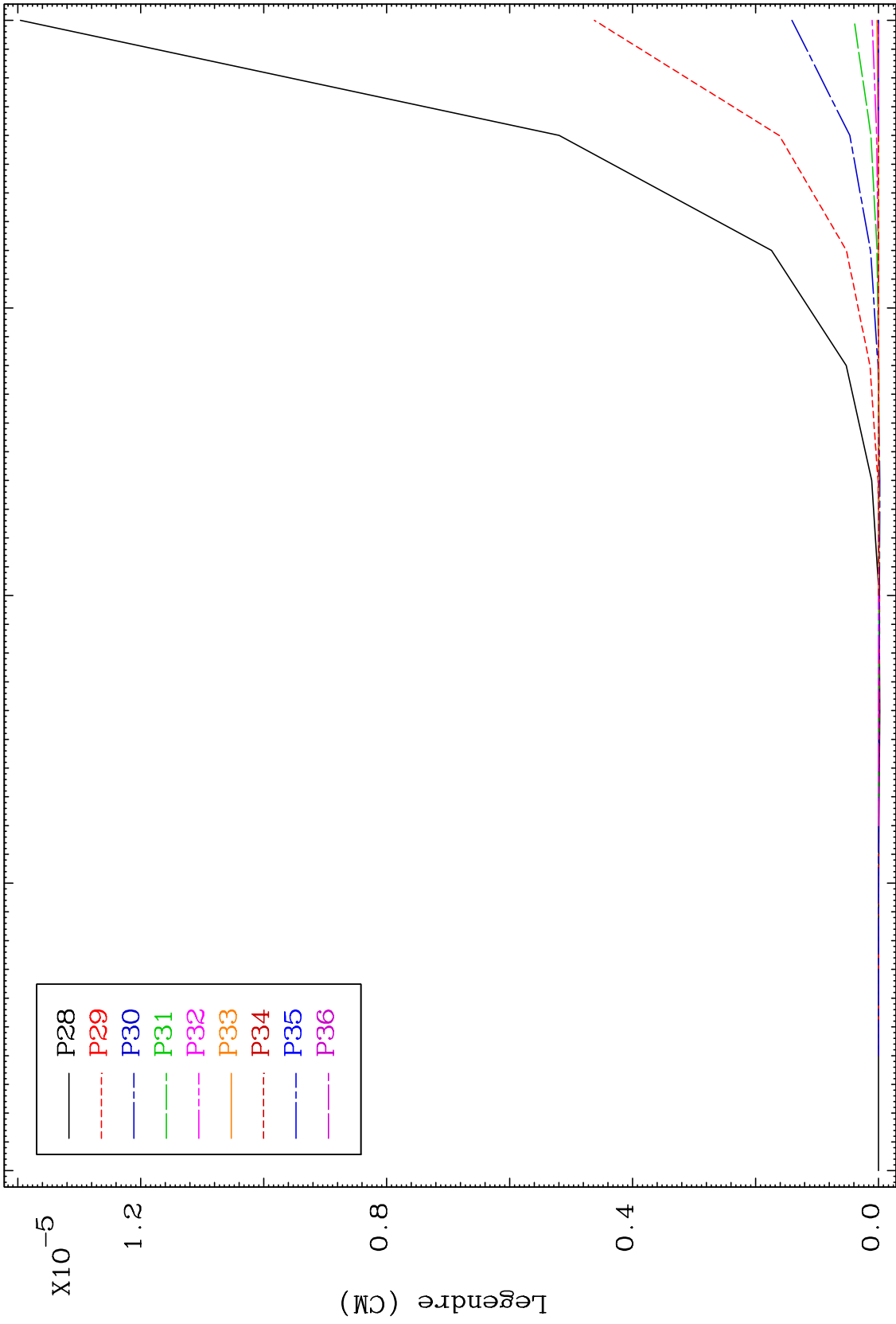
Incident Energy (MeV)

72-Hf-182

MAT 7249

Elastic Legendre Coefficients

72-Hf-182



19

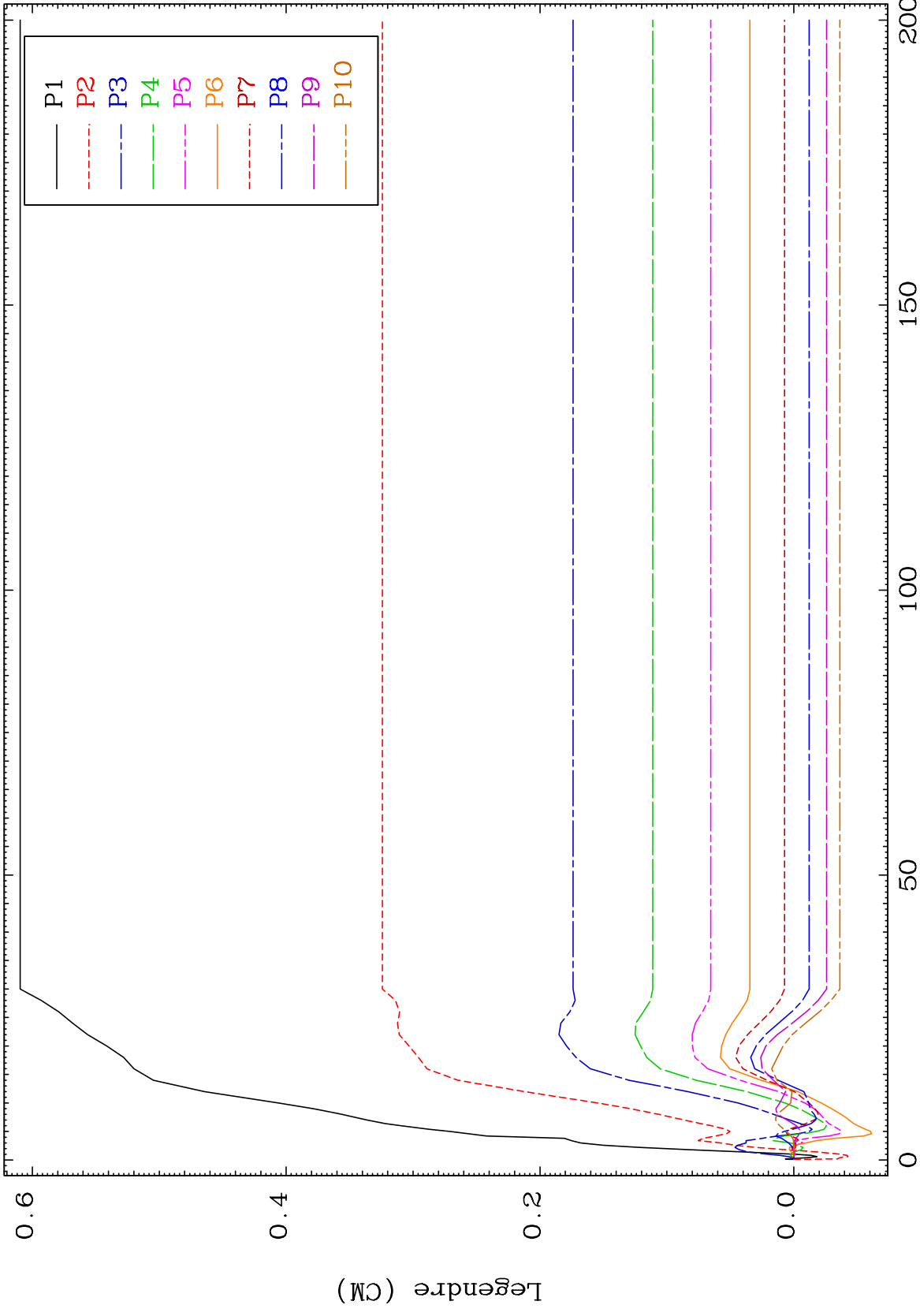
Incident Energy (MeV)

72-Hf-182

MAT 7249

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

72-Hf-182



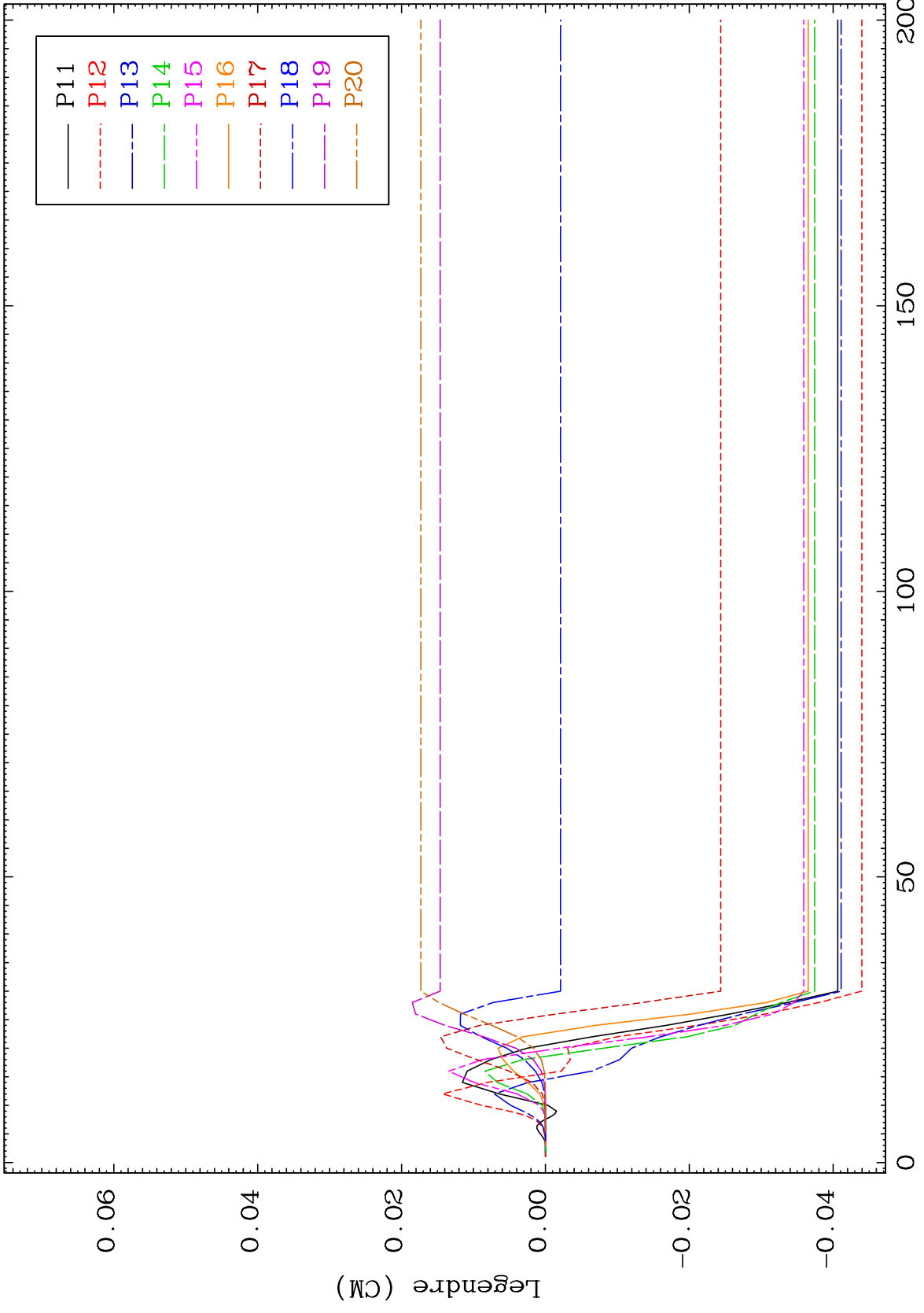
Incident Energy (MeV)

72-Hf-182

MAT 7249

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

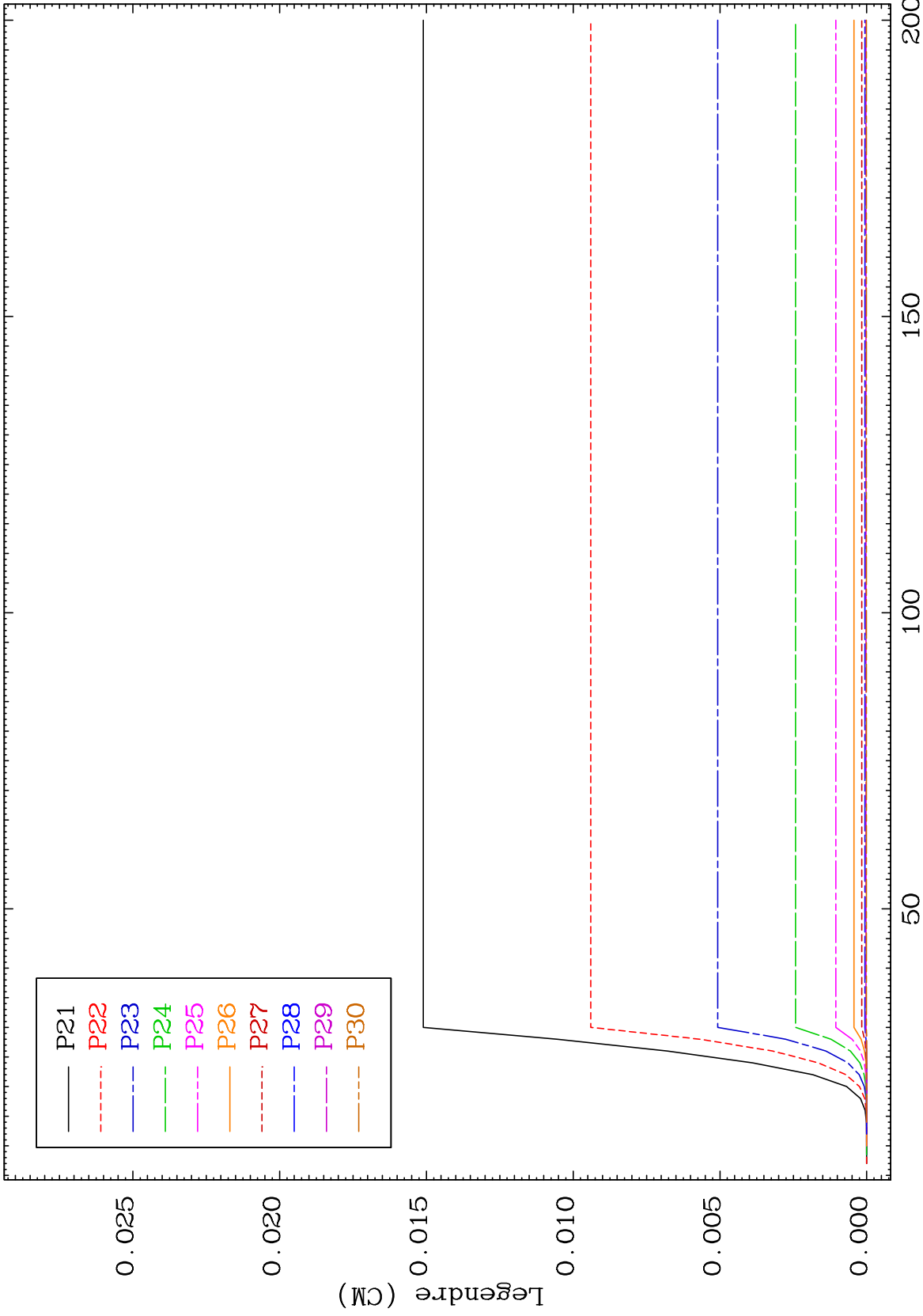
72-Hf-182



21

Incident Energy (MeV)

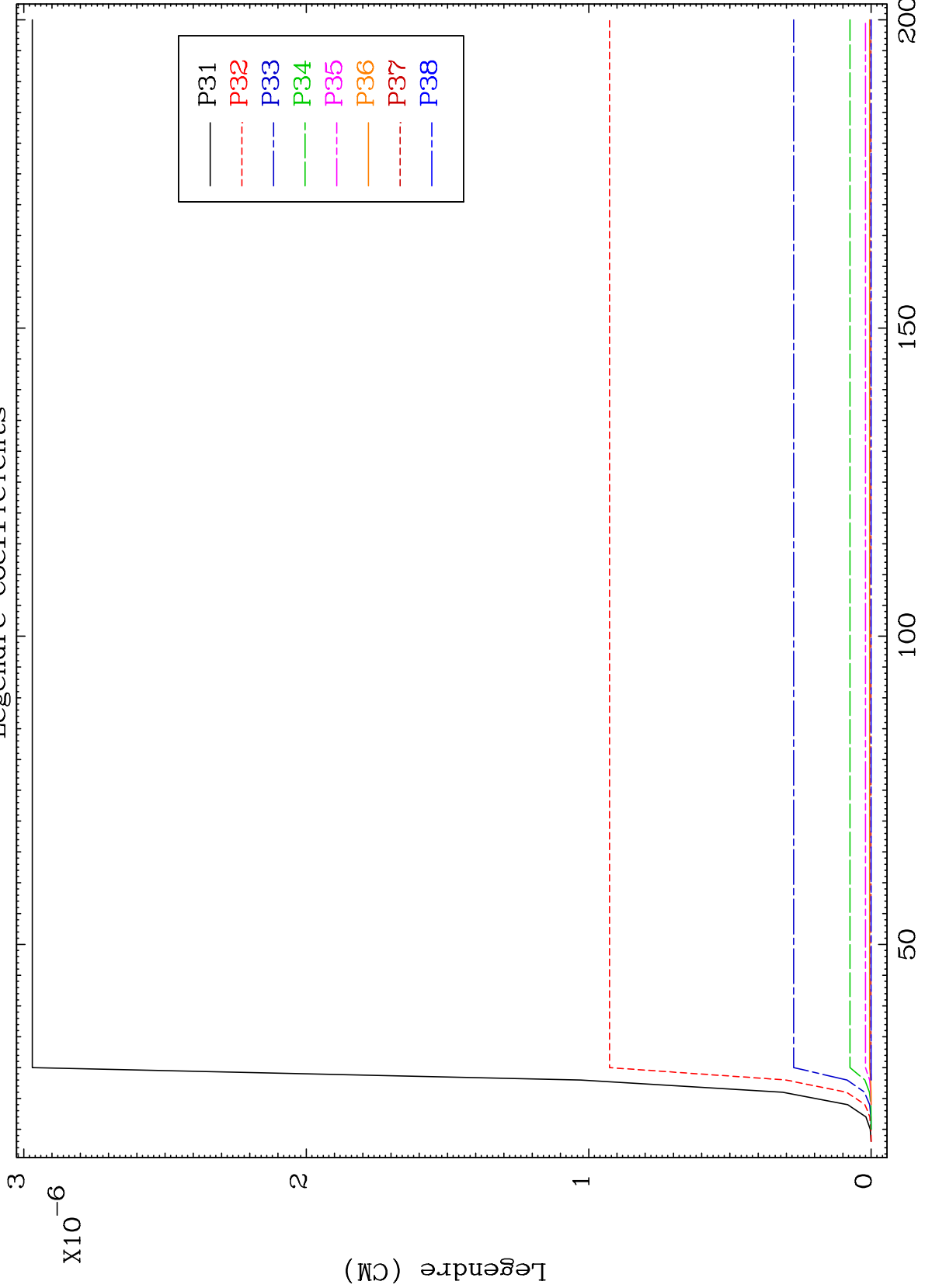
72-Hf-182



MAT 7249

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

72-Hf-182



23

Incident Energy (MeV)

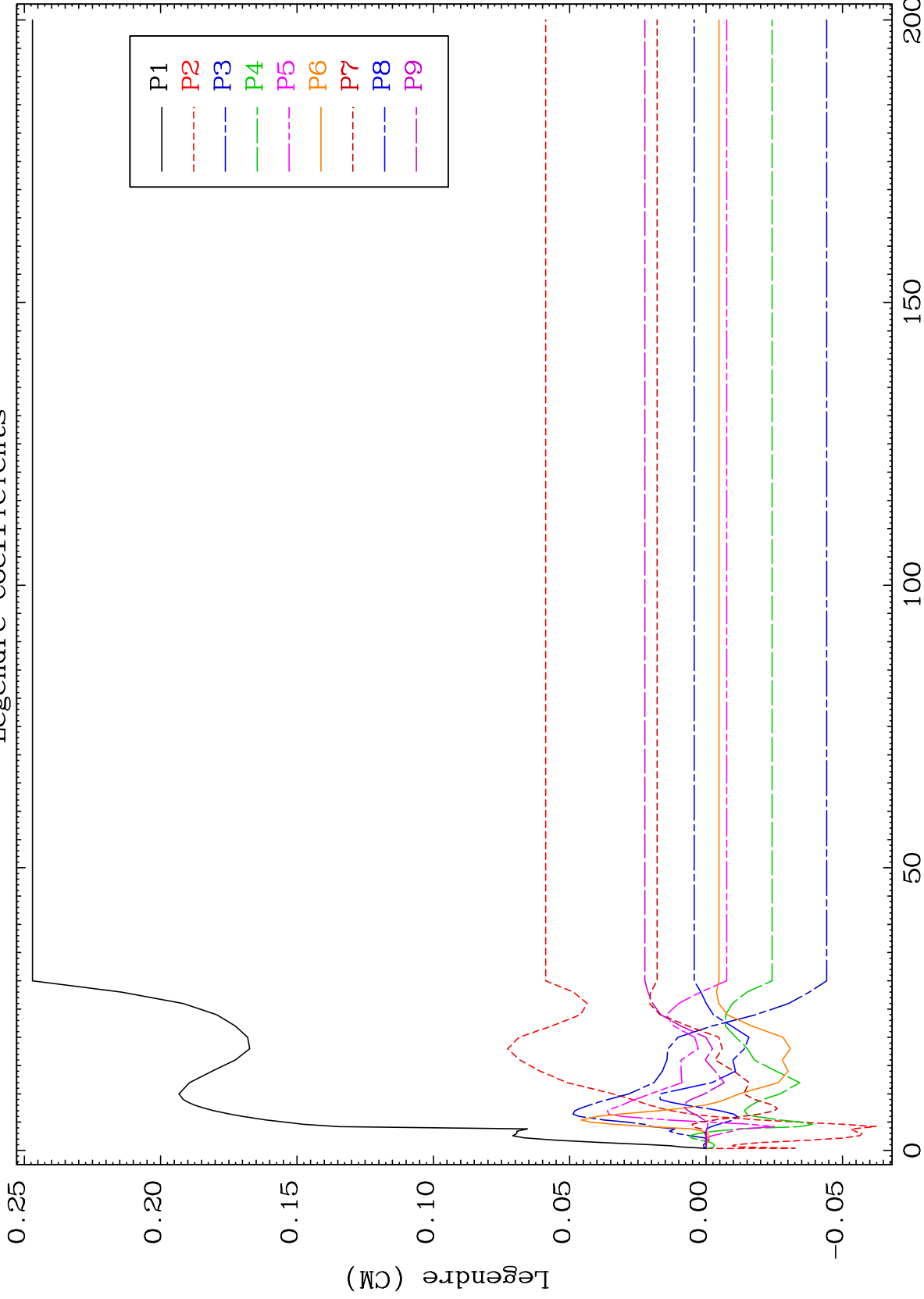
72-Hf-182



MAT 7249

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

72-Hf-182



24

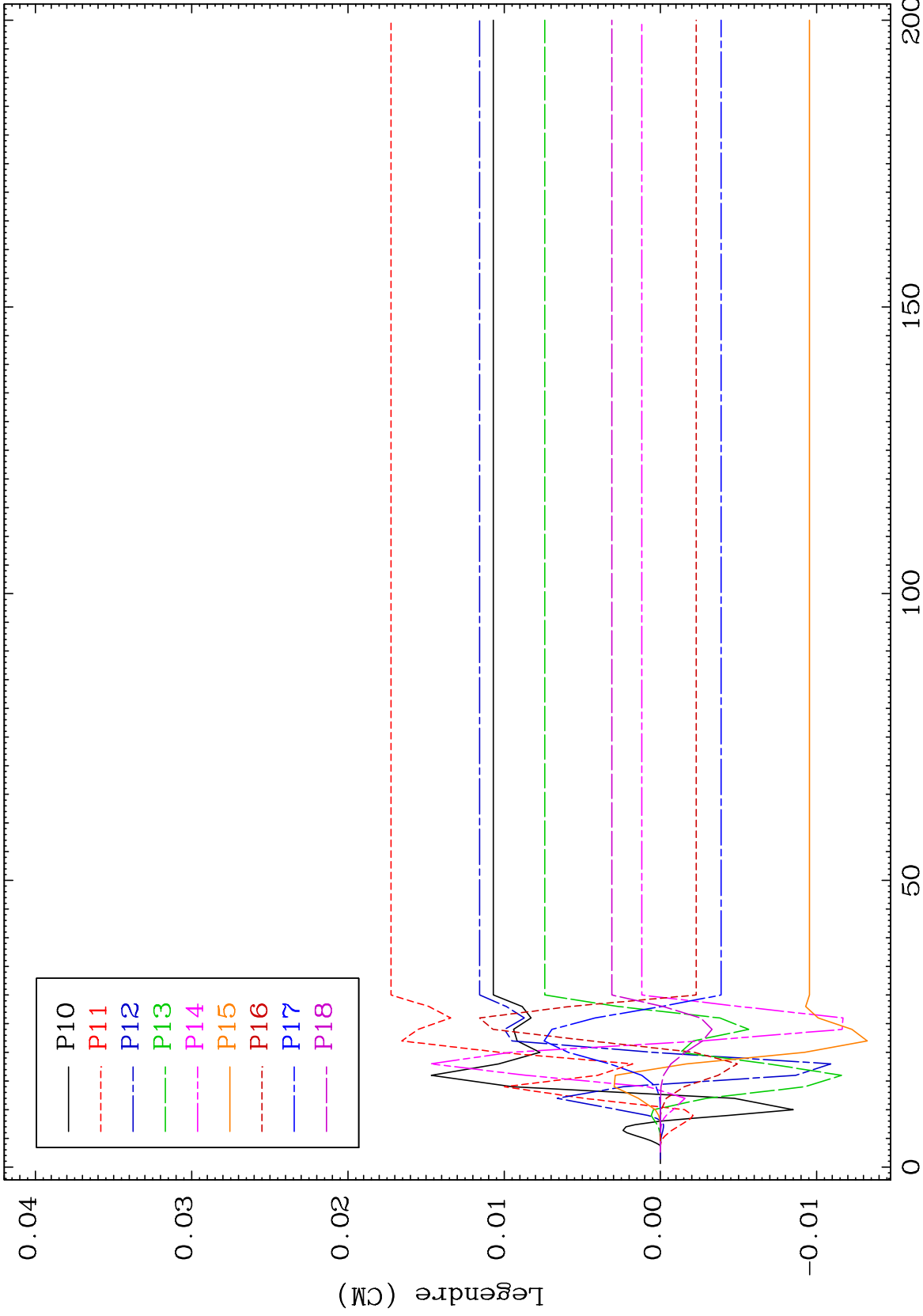
Incident Energy (MeV)

72-Hf-182

MAT 7249

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

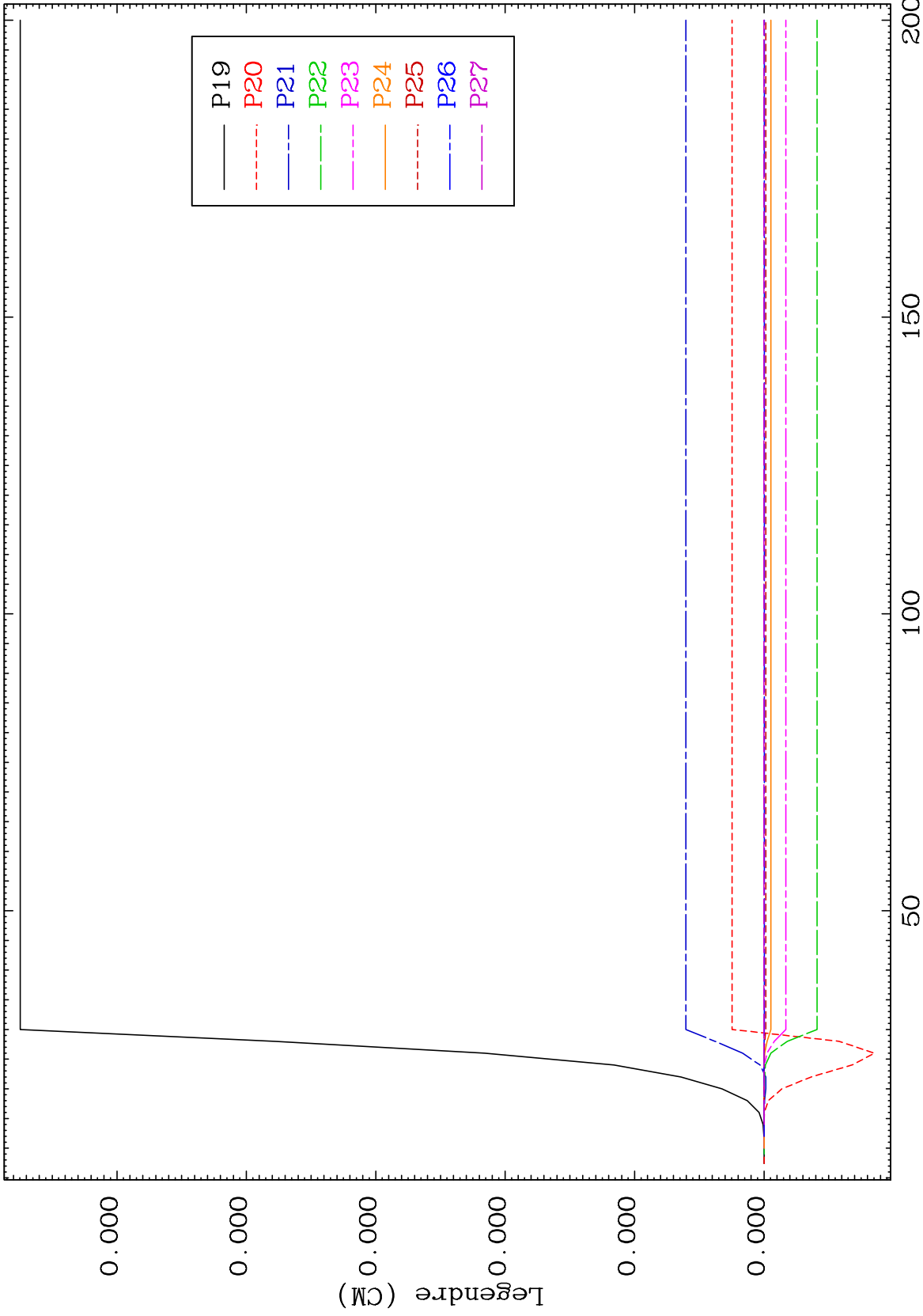
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25

Incident Energy (MeV)

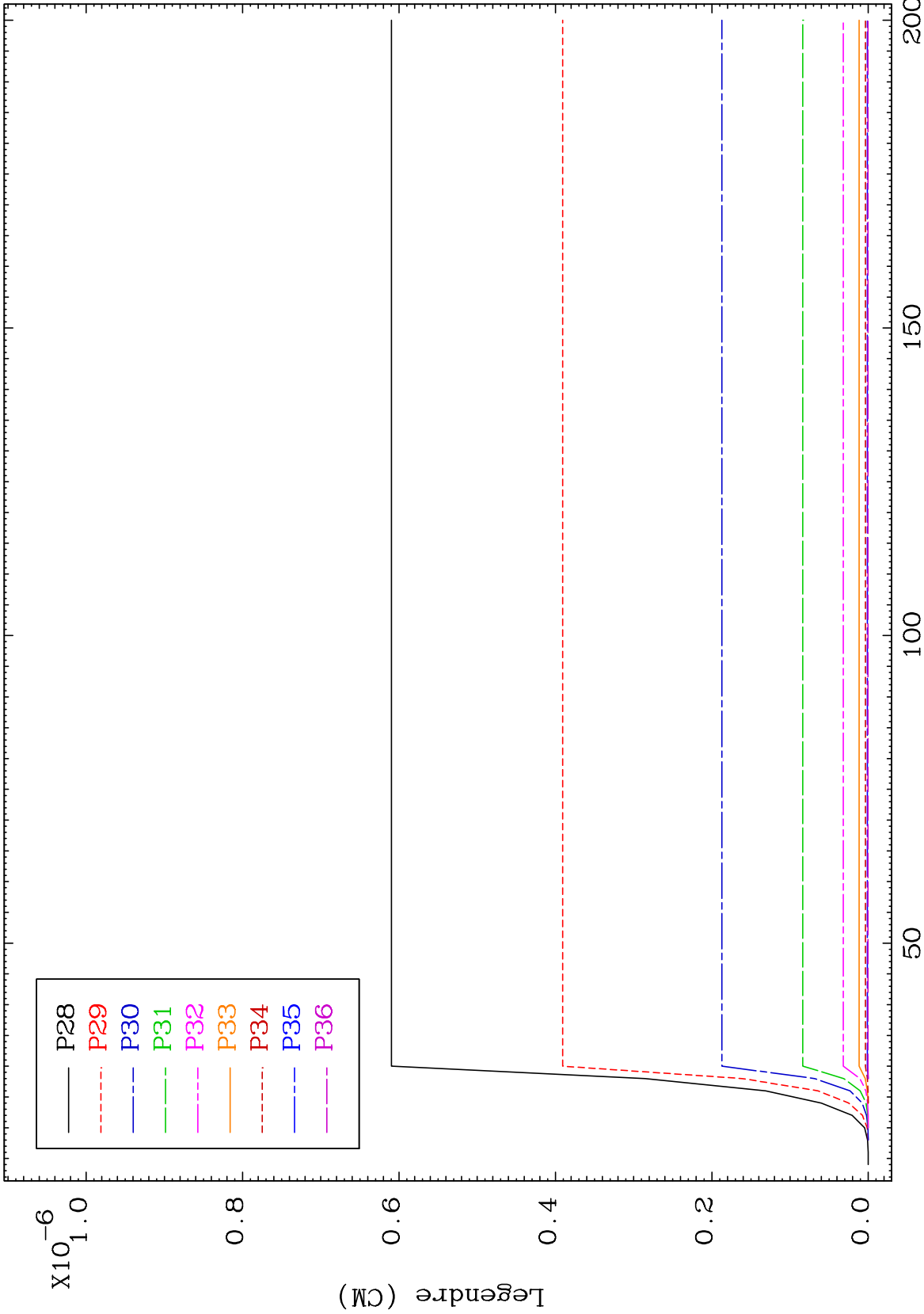
72-Hf-182



MAT 7249

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

72-Hf-182



27

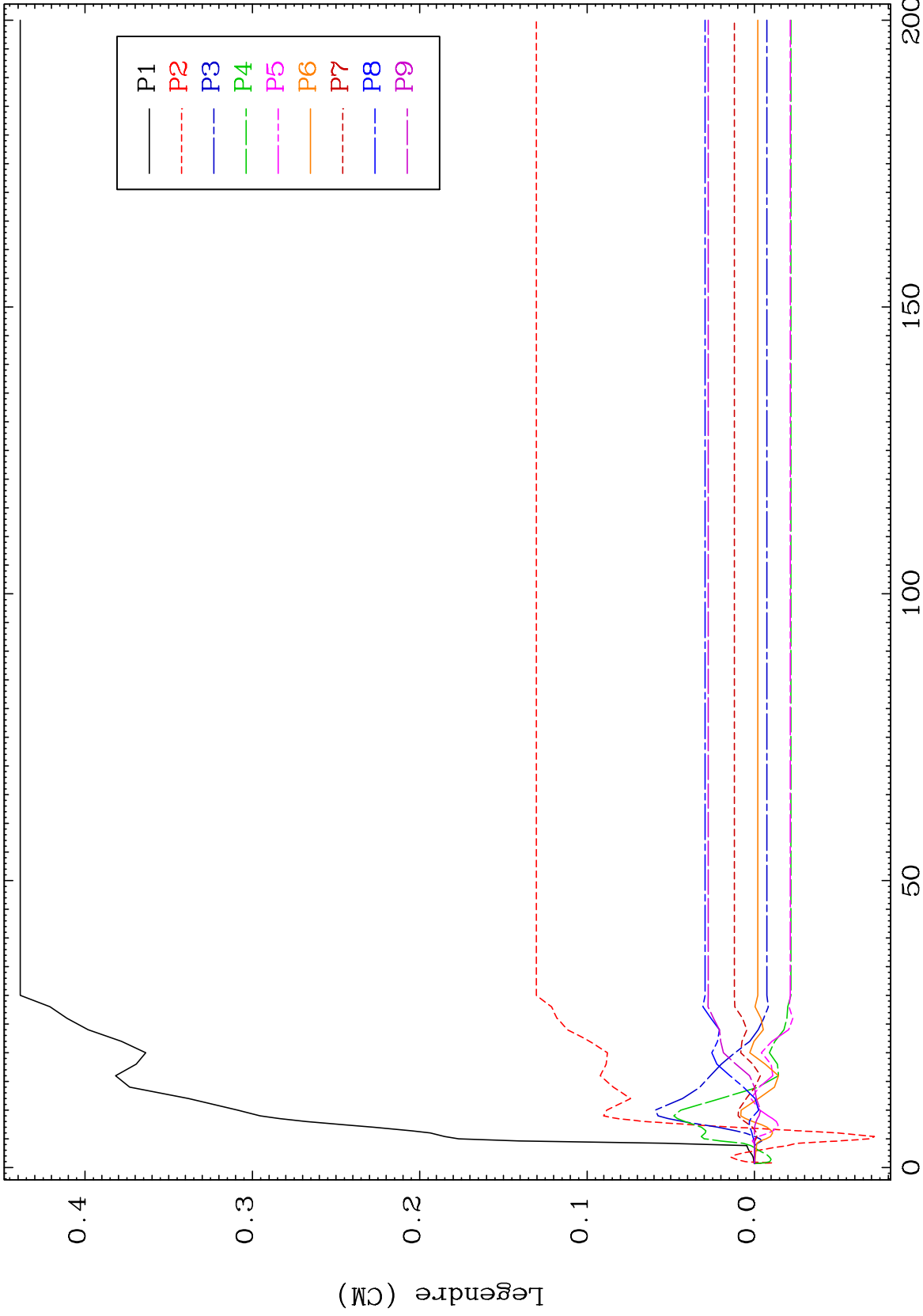
Incident Energy (MeV)

72-Hf-182

MAT 7249

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

72-Hf-182



28

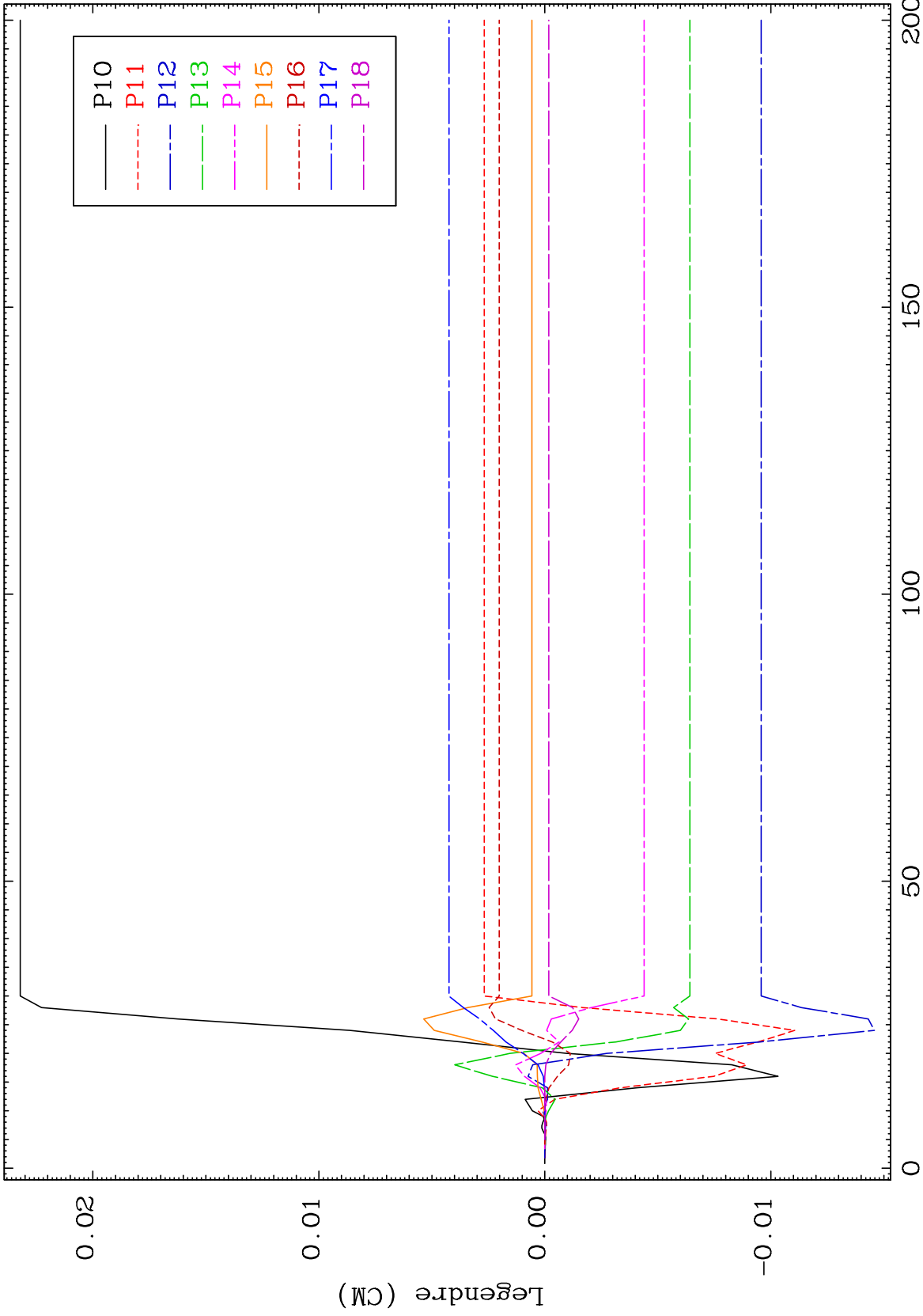
Incident Energy (MeV)

72-Hf-182

MAT 7249

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

72-Hf-182



29

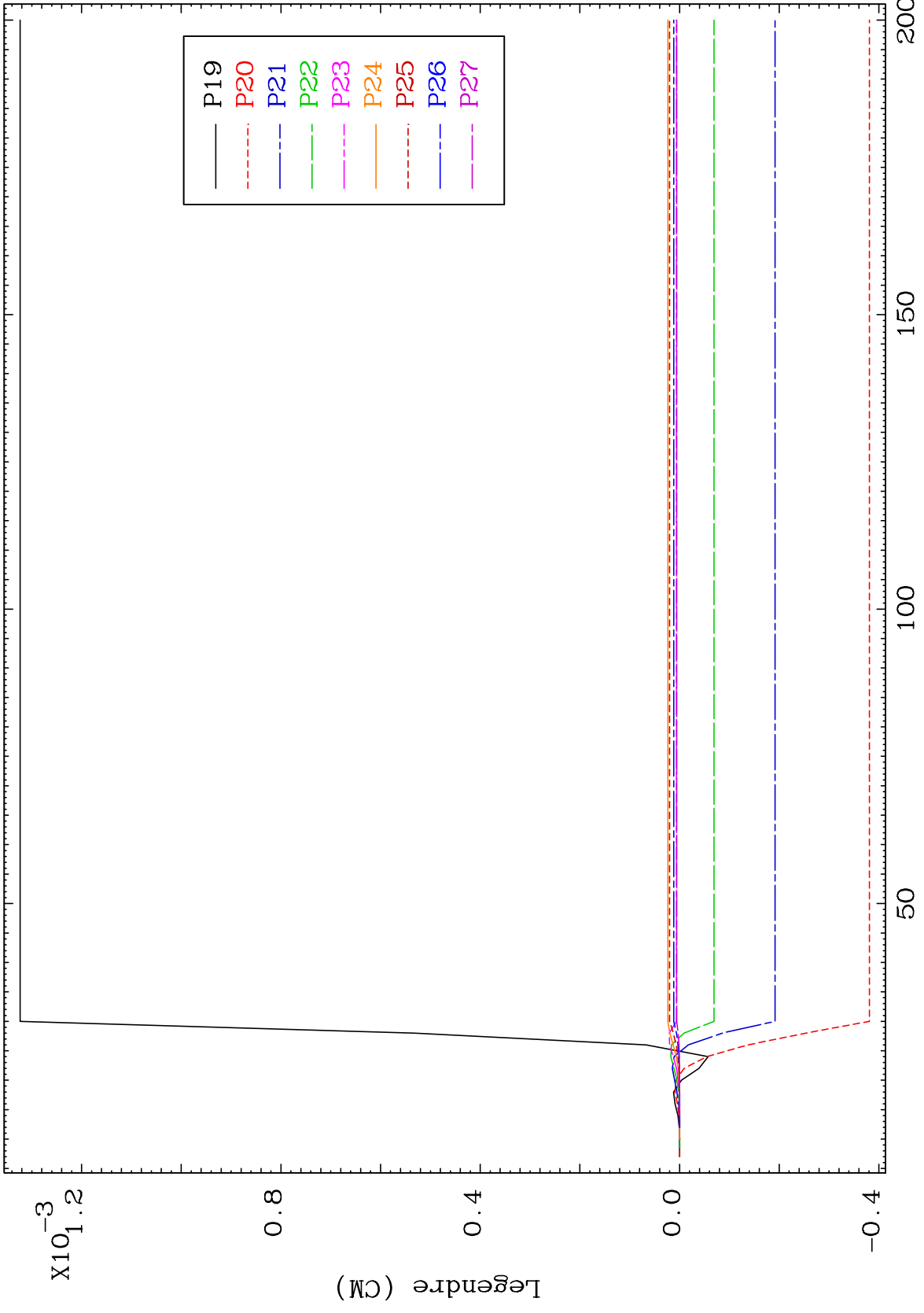
Incident Energy (MeV)

72-Hf-182

MAT 7249

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

72-Hf-182



30

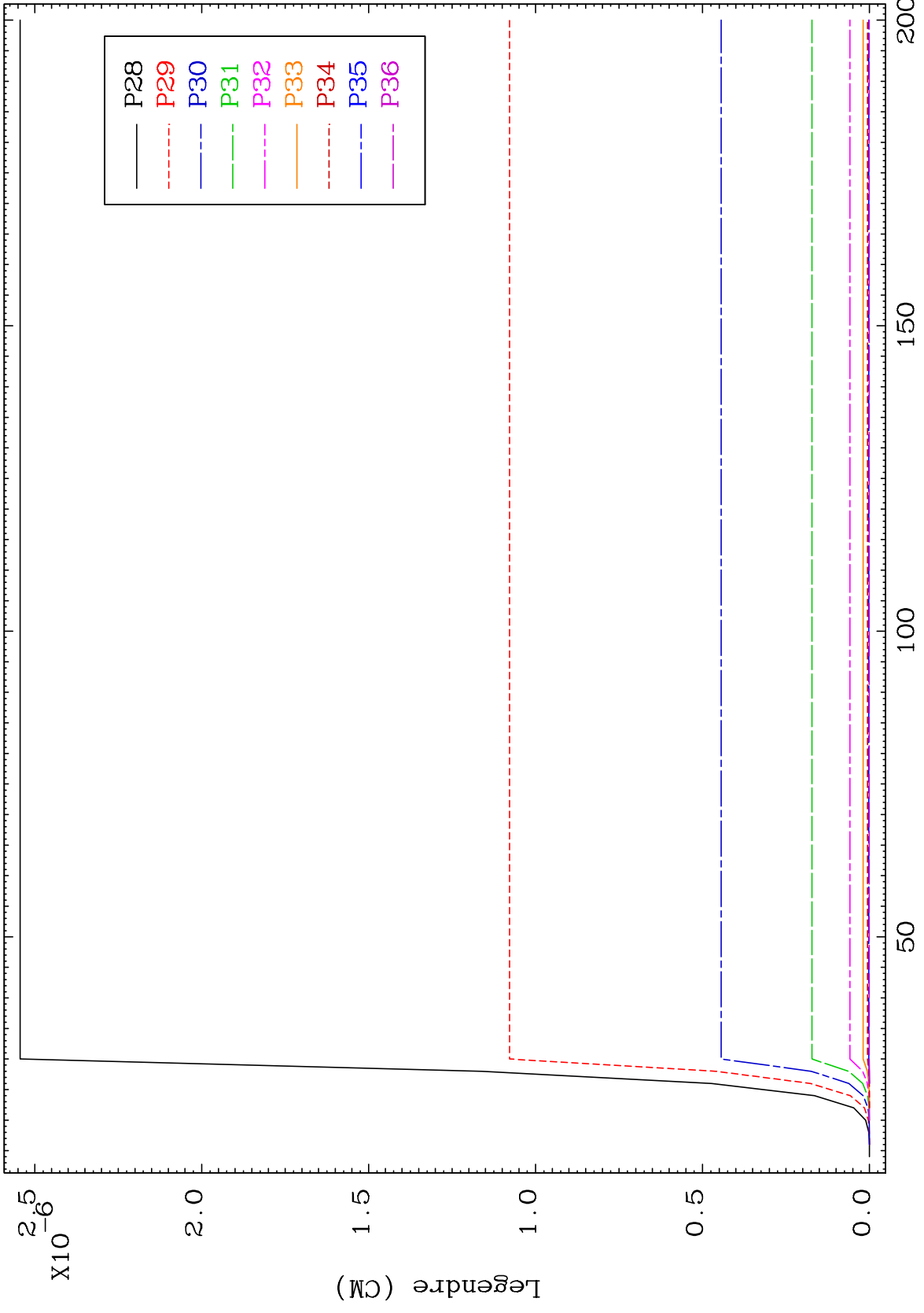
Incident Energy (MeV)

72-Hf-182

MAT 7249

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

72-Hf-182



31

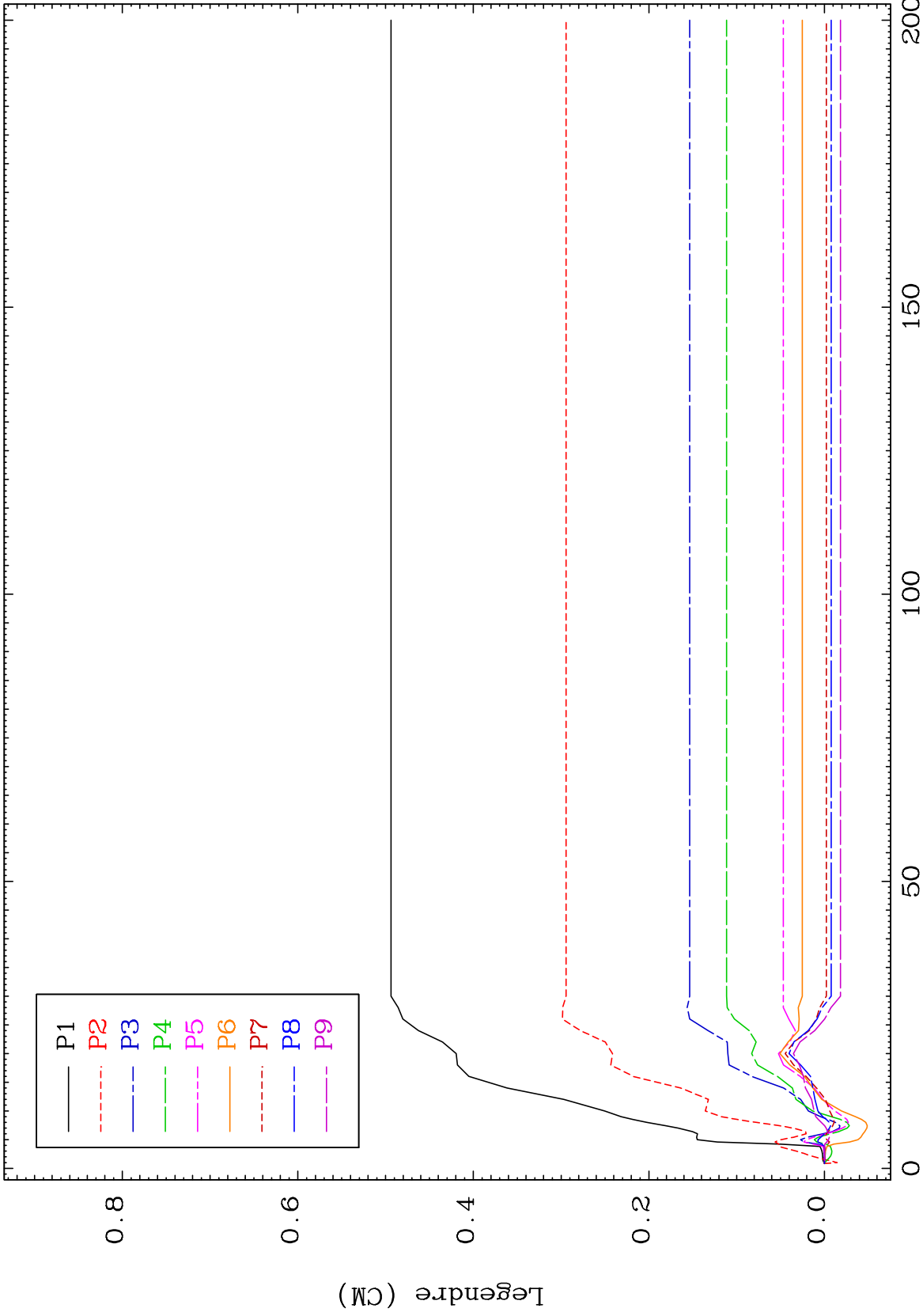
72-Hf-182



MAT 7249

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

72-Hf-182



32

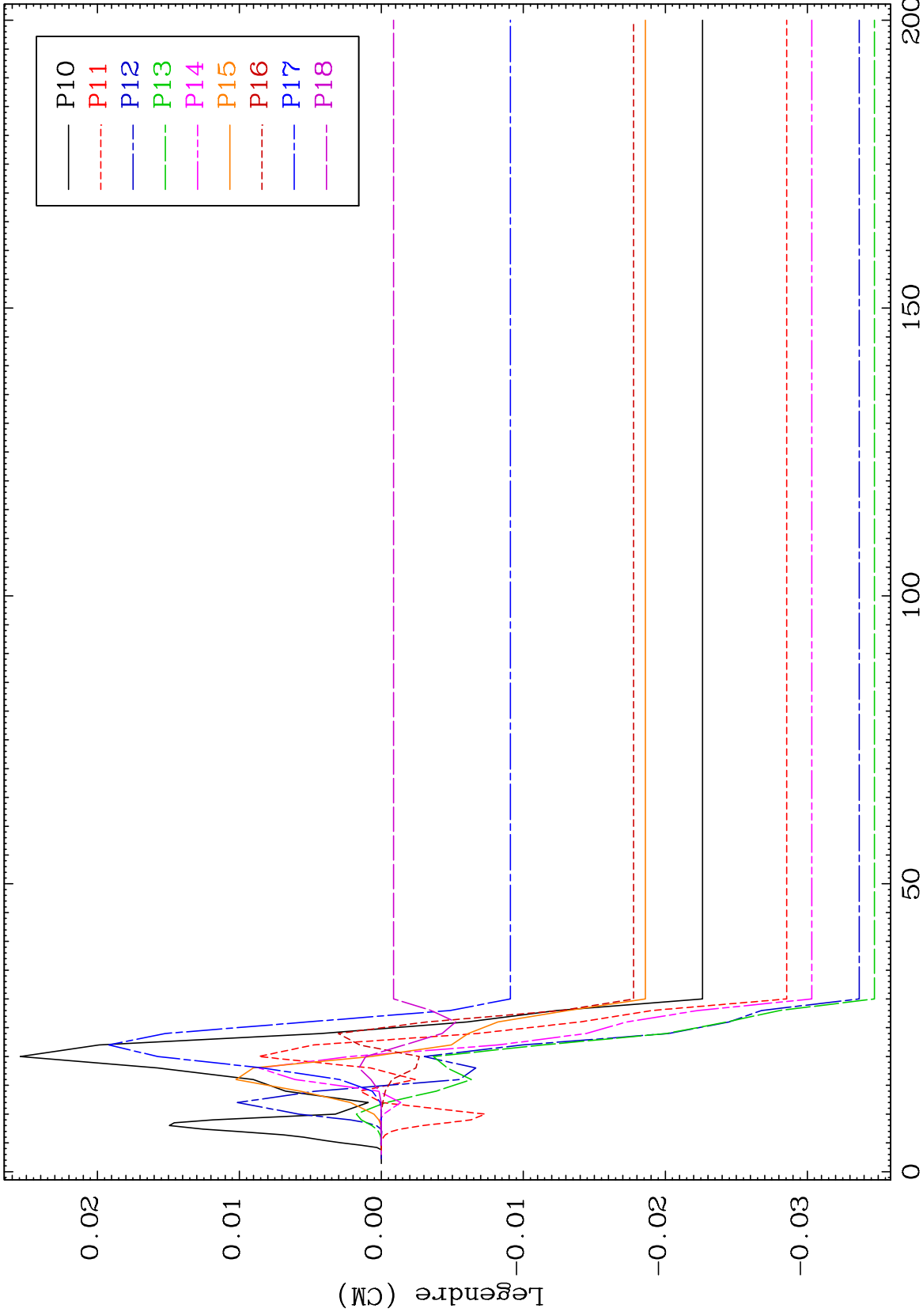
Incident Energy (MeV)

72-Hf-182

MAT 7249

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

72-Hf-182



33

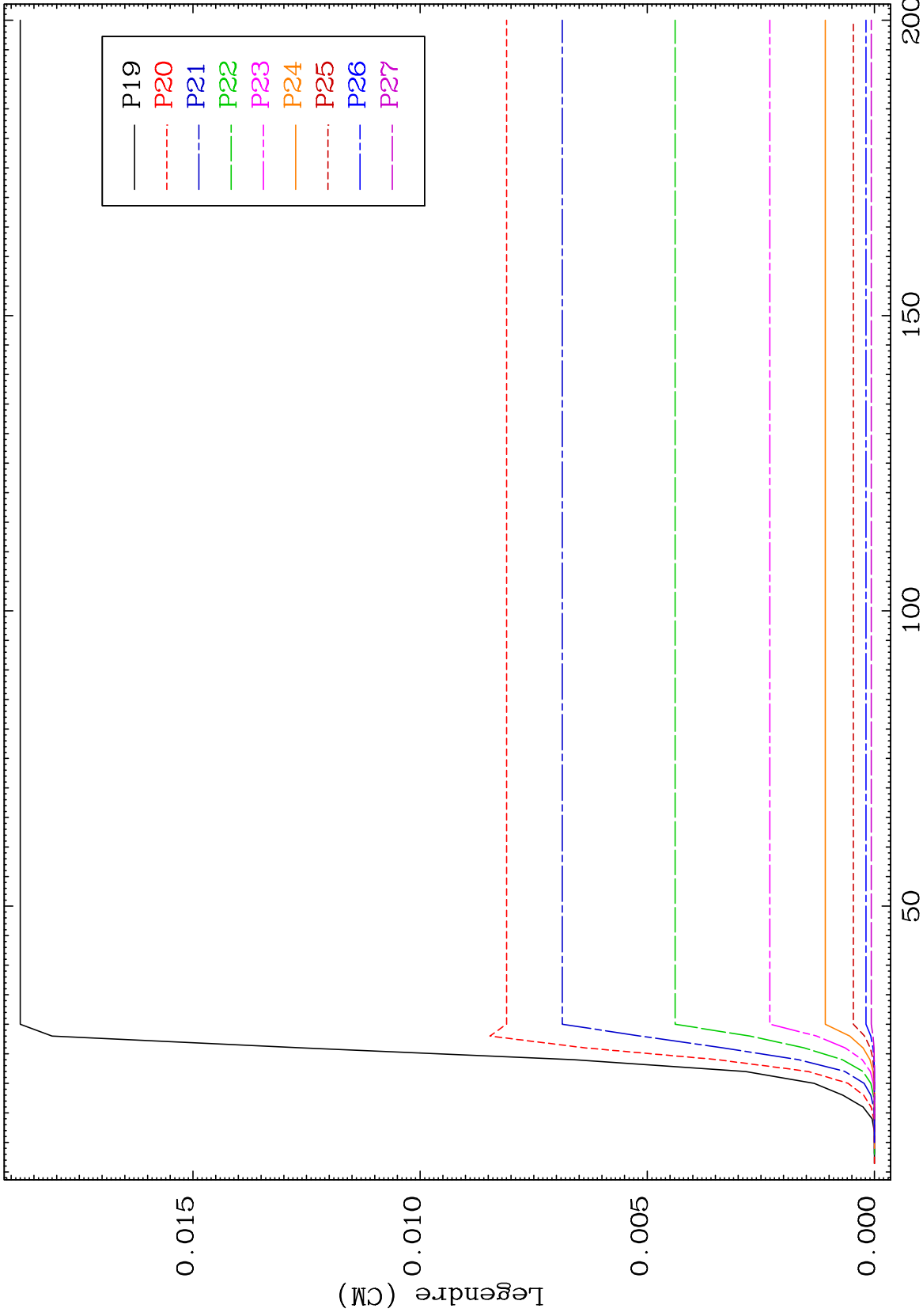
Incident Energy (MeV)

72-Hf-182

MAT 7249

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

72-Hf-182



34

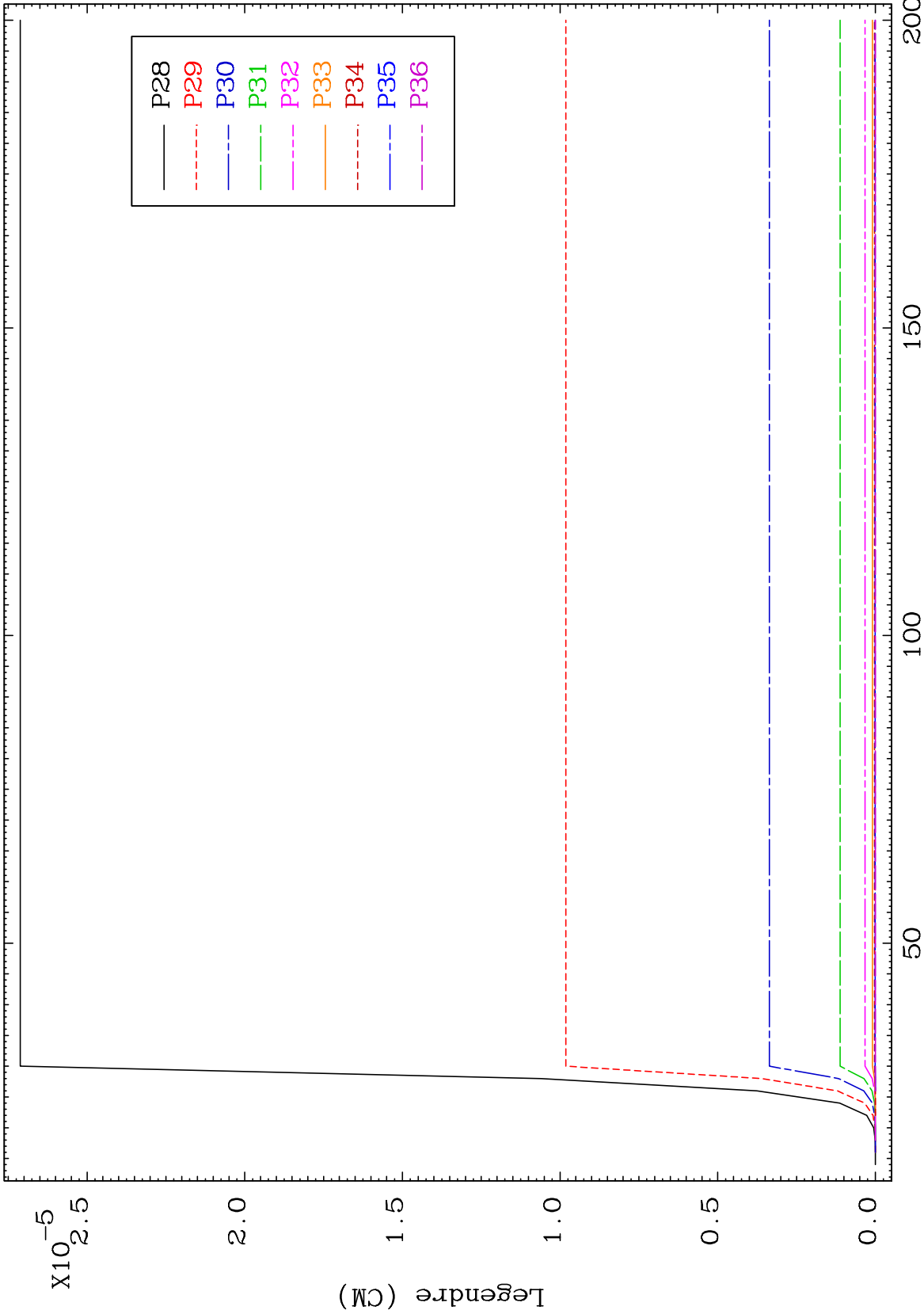
Incident Energy (MeV)

72-Hf-182

MAT 7249

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

72-Hf-182



35

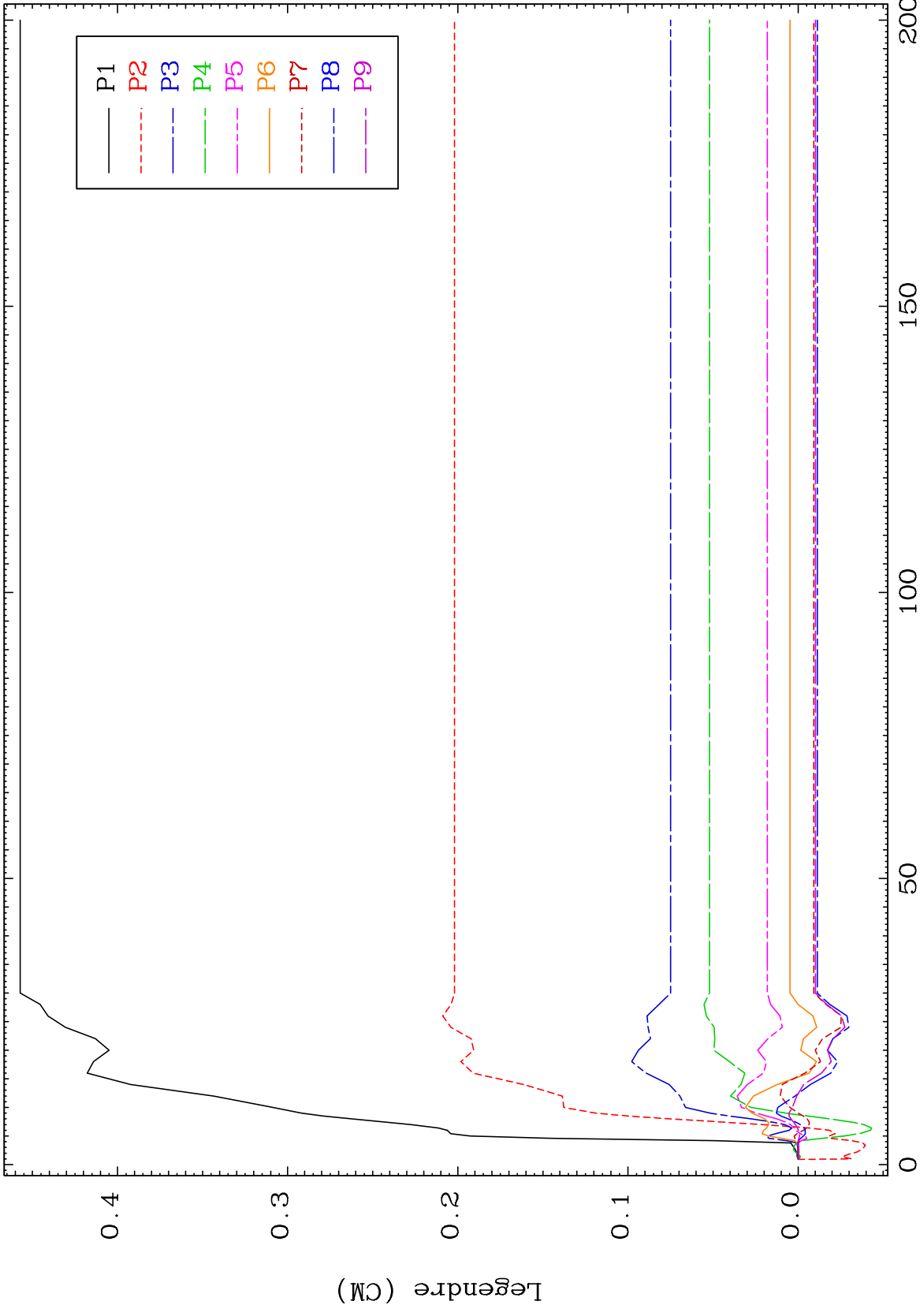
Incident Energy (MeV)

72-Hf-182

MAT 7249

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

72-Hf-182



36

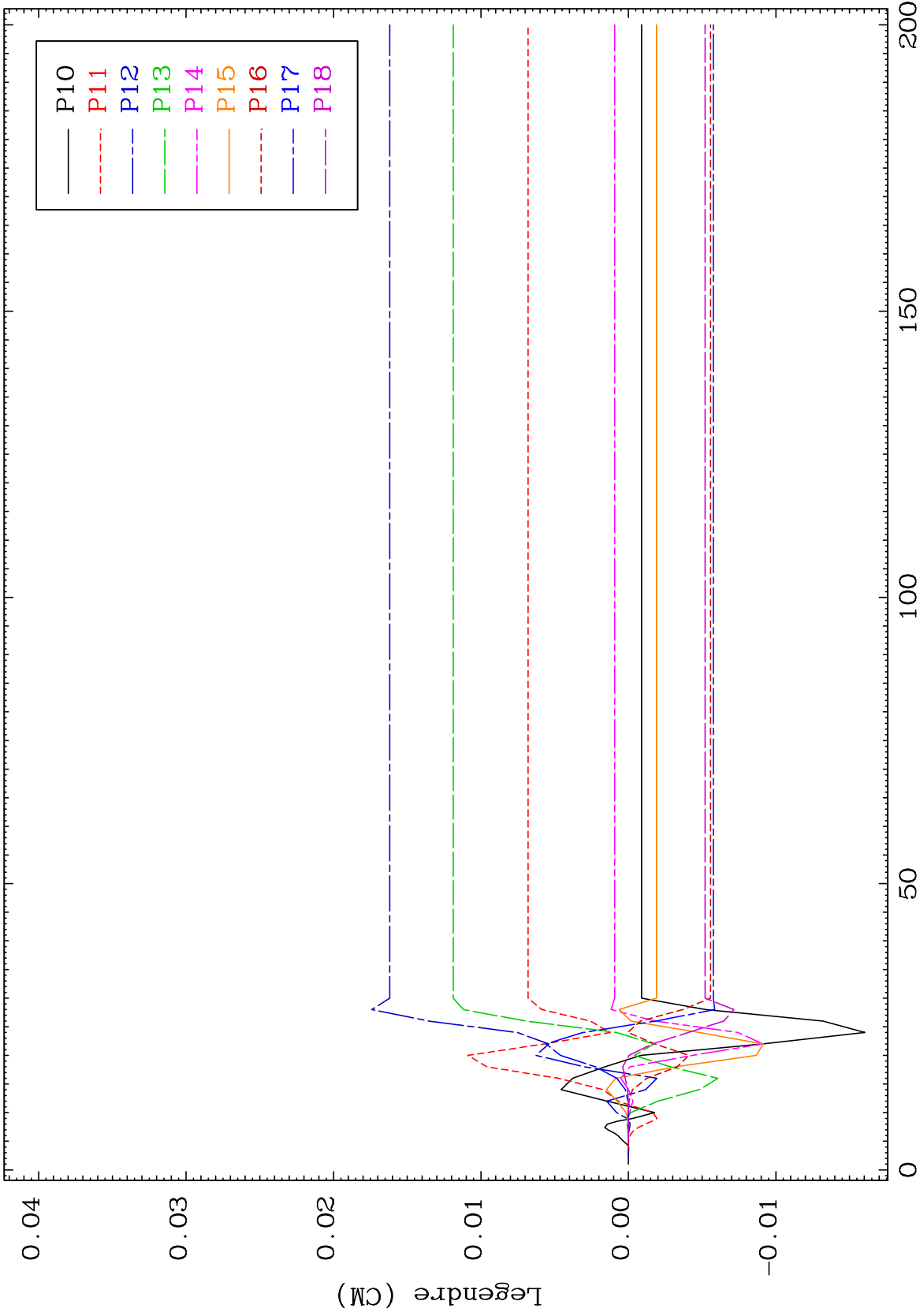
Incident Energy (MeV)

72-Hf-182

MAT 7249

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

72-Hf-182



37

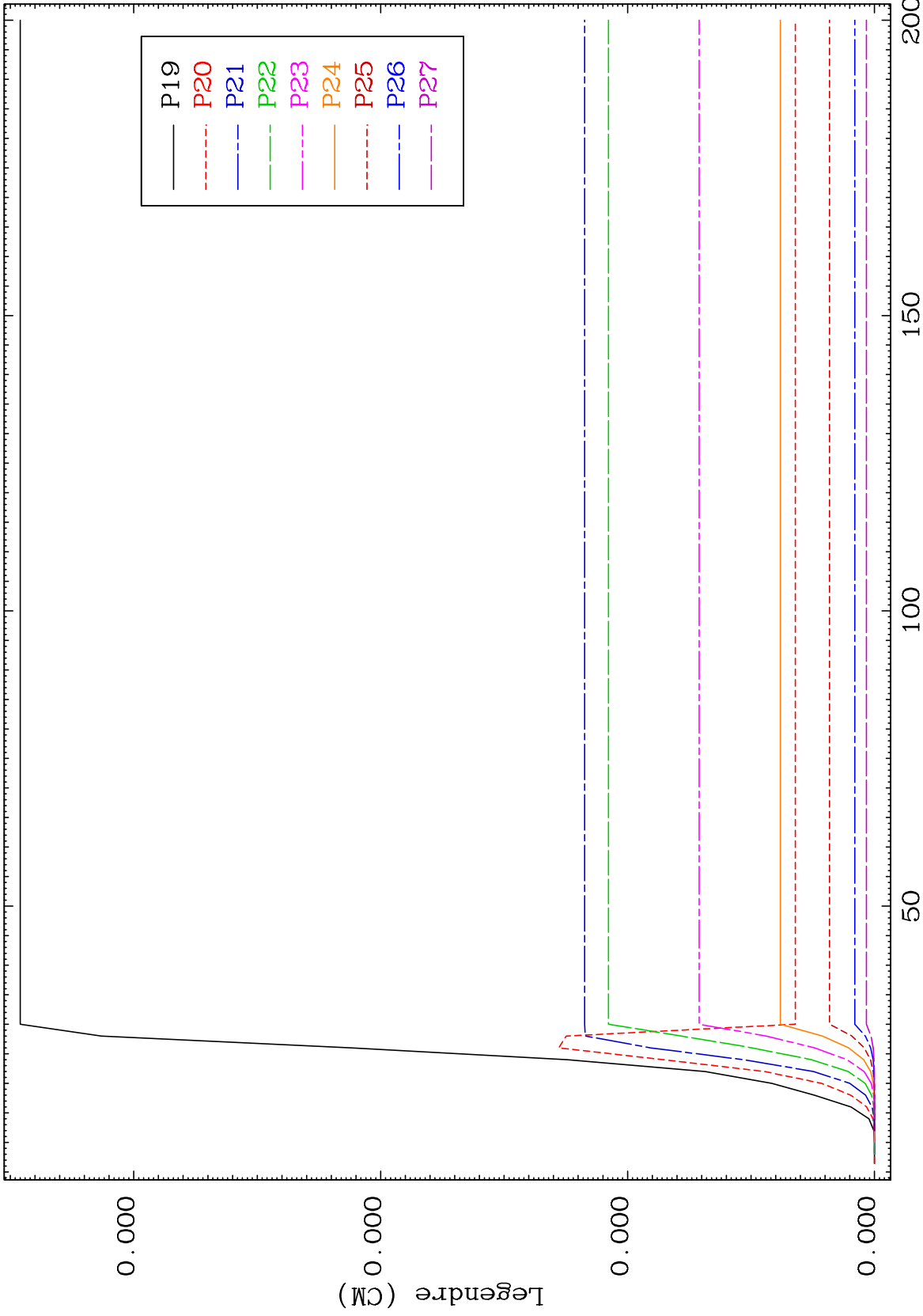
Incident Energy (MeV)

72-Hf-182

MAT 7249

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

72-Hf-182



38

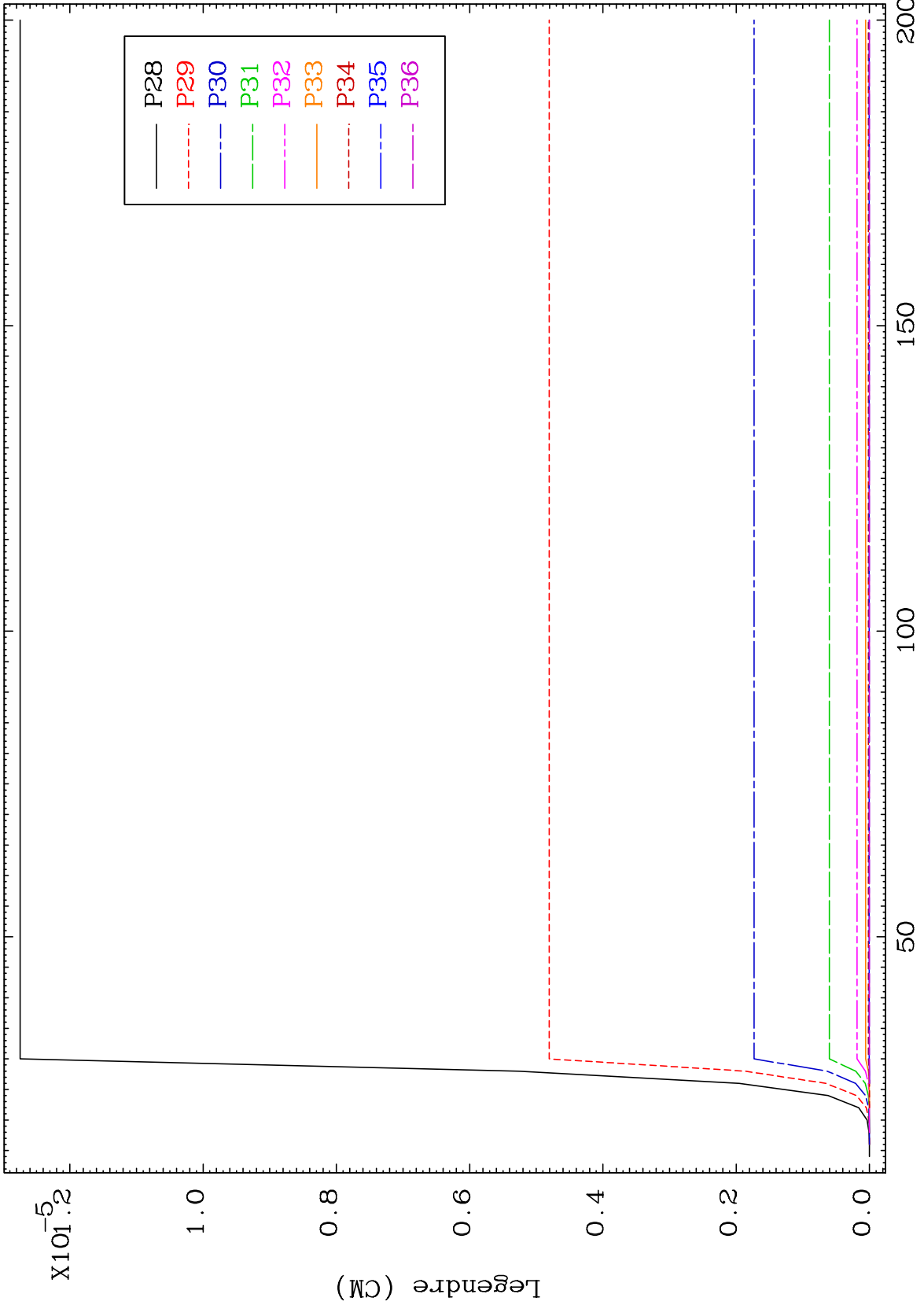
Incident Energy (MeV)

72-Hf-182

MAT 7249

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

72-Hf-182



39

Incident Energy (MeV)

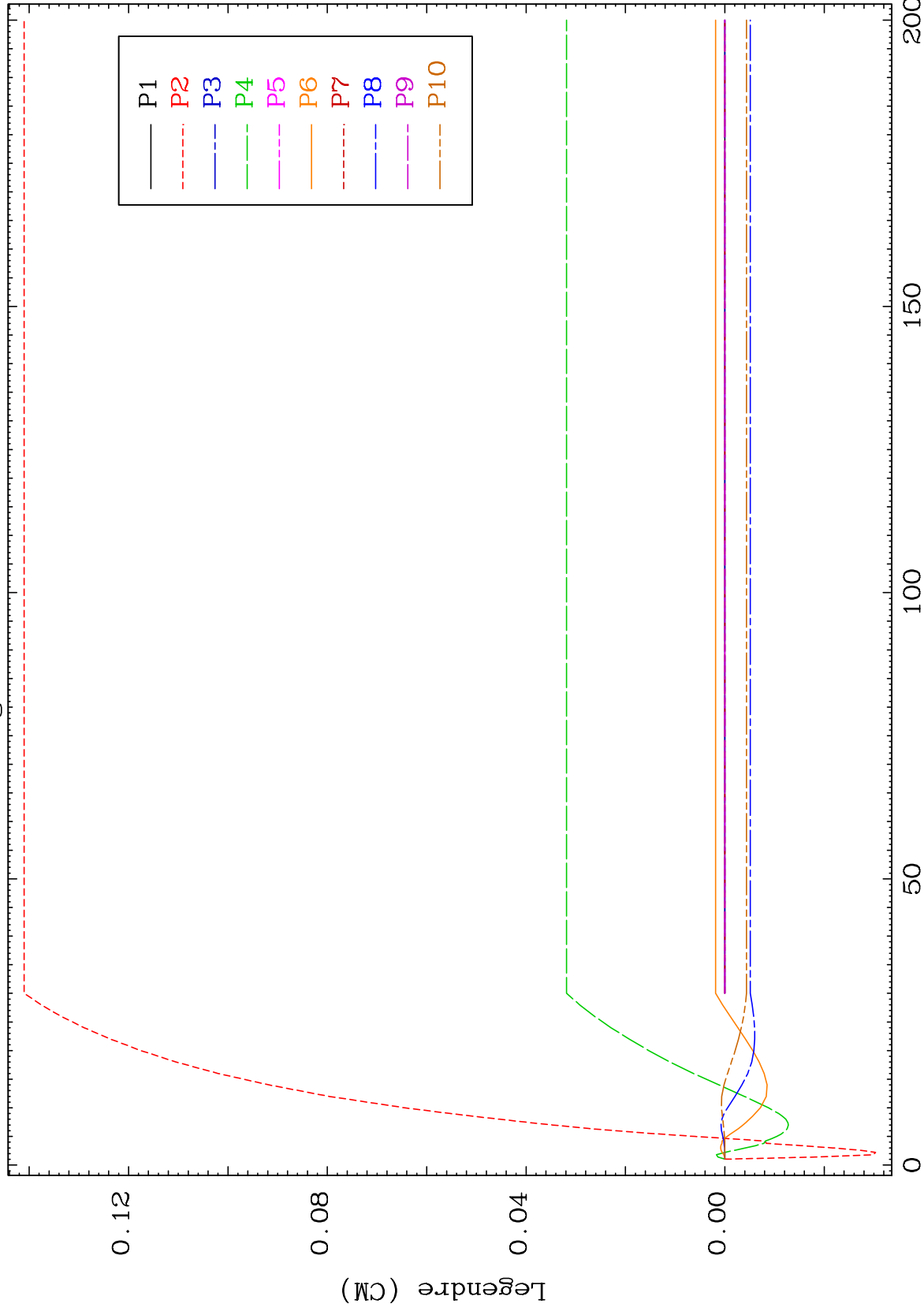
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MAT 7249

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

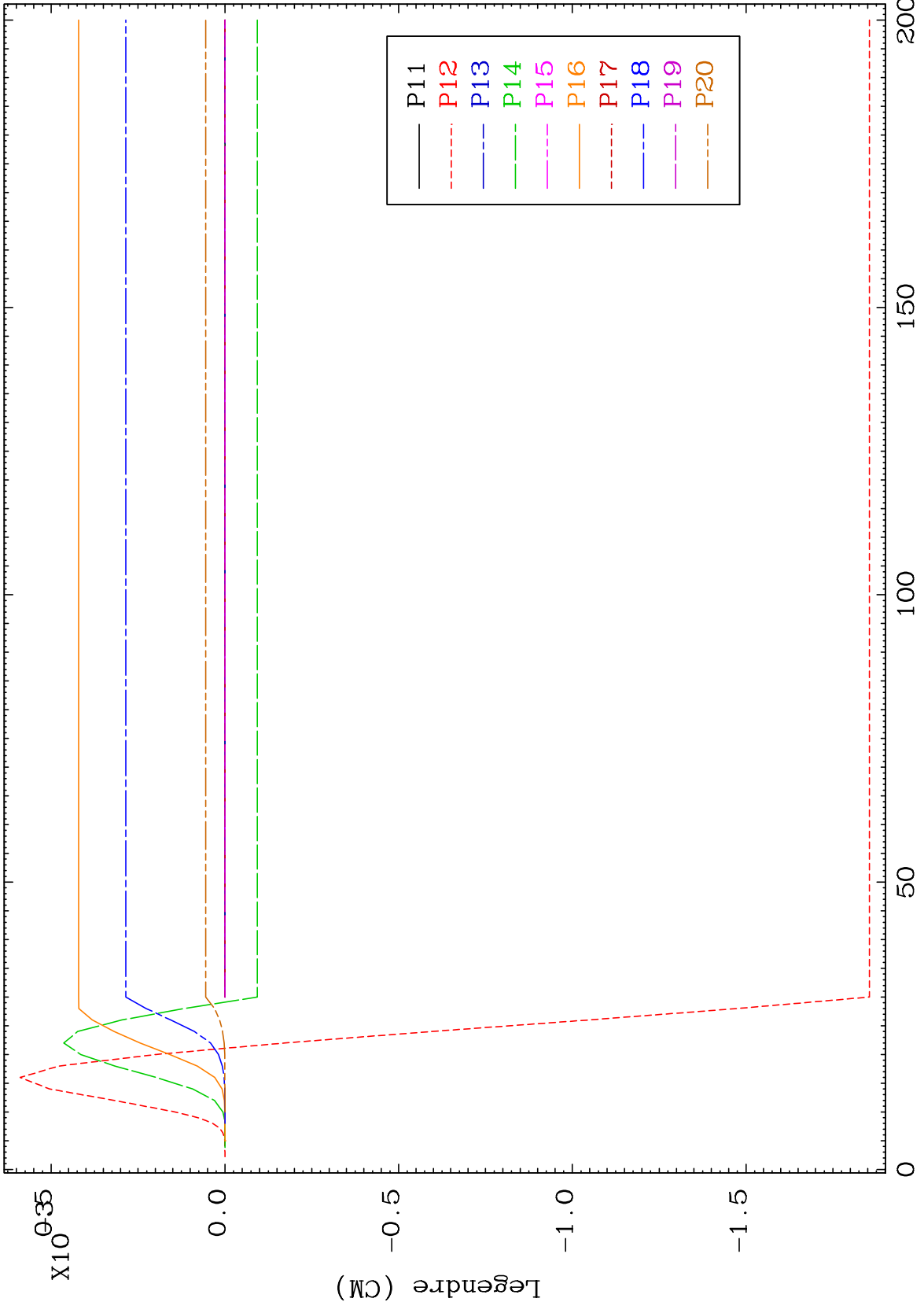
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40

Incident Energy (MeV)

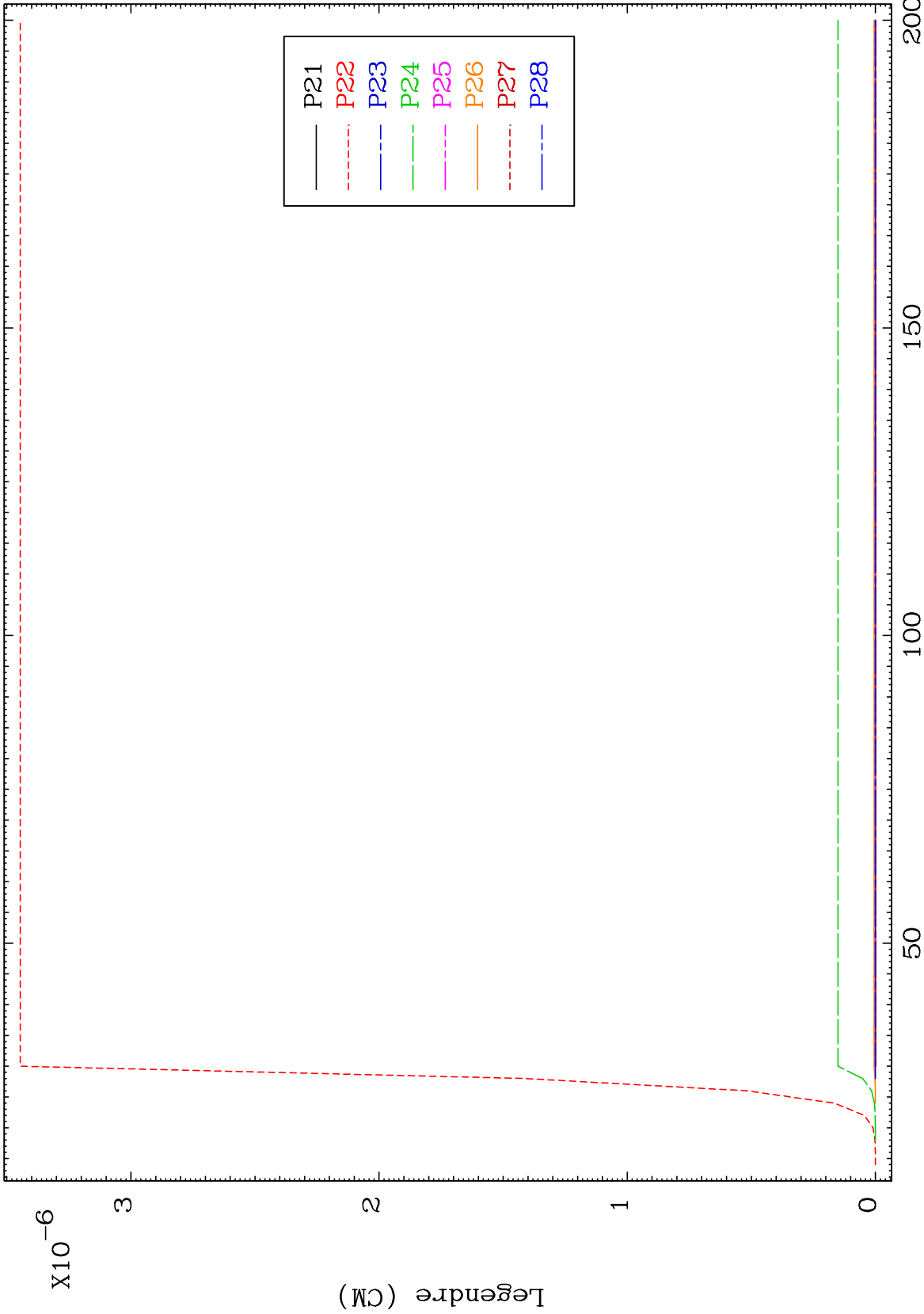
72-Hf-182



MAT 7249

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

72-Hf-182



42

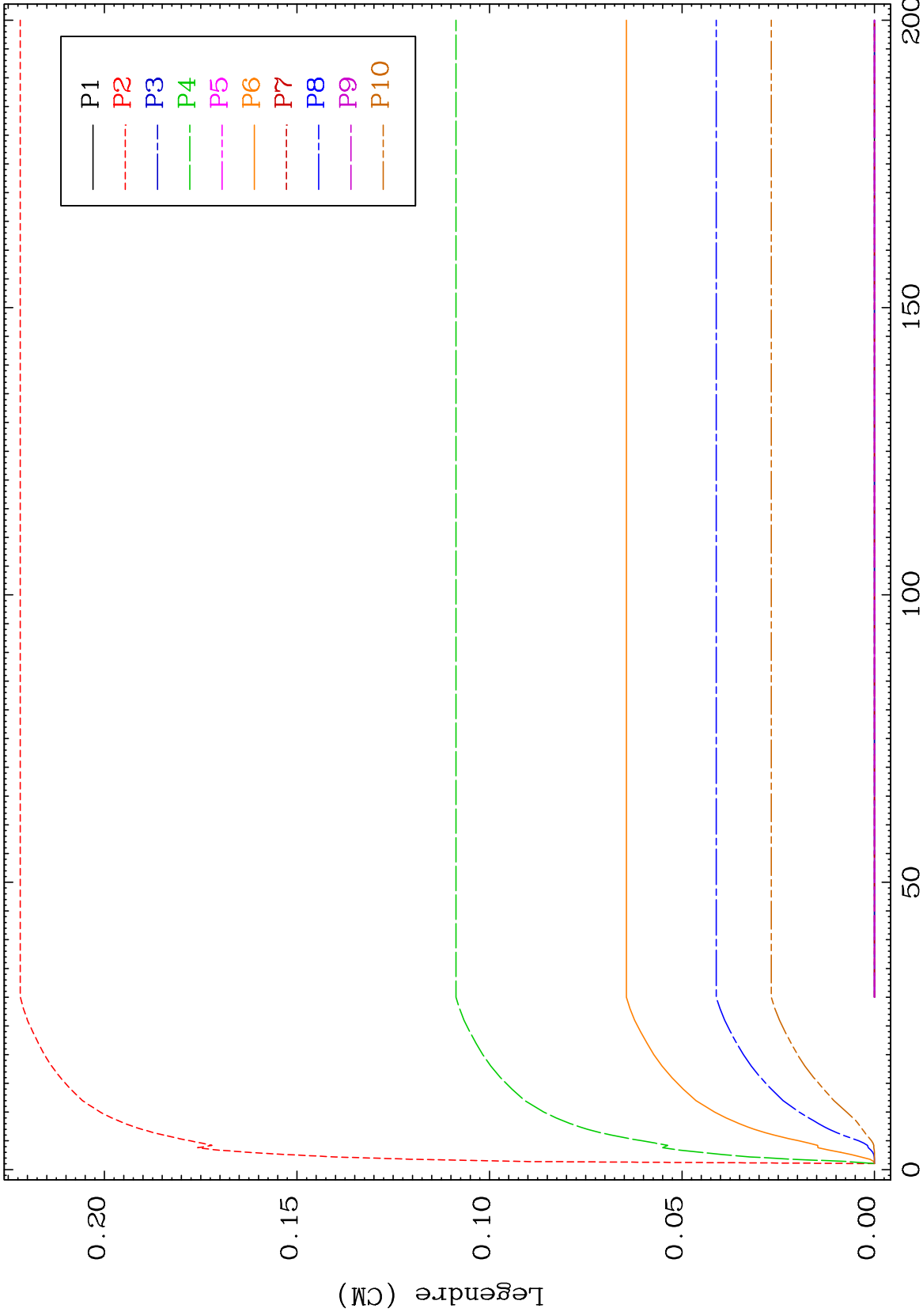
Incident Energy (MeV)

72-Hf-182

MAT 7249

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

72-Hf-182



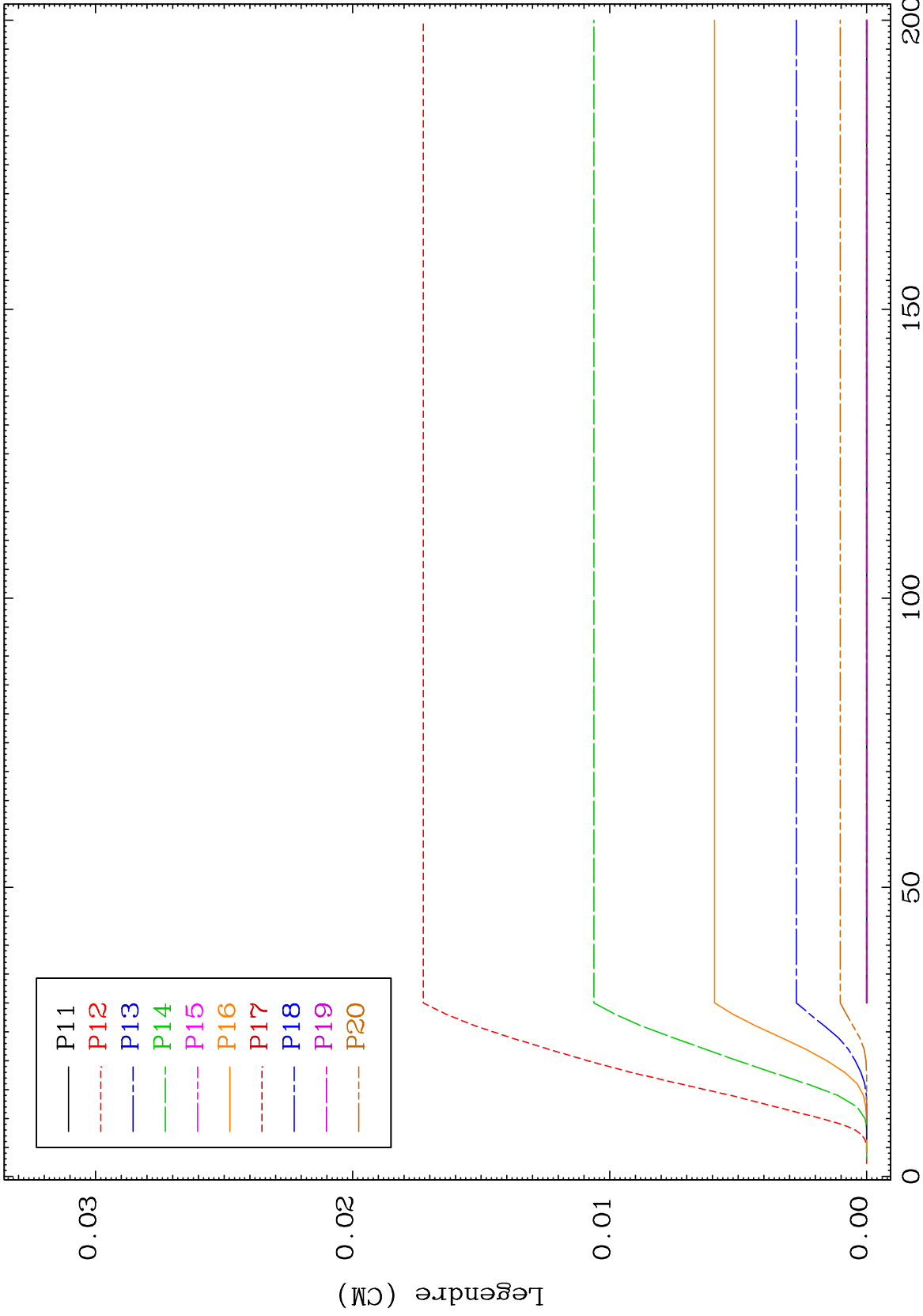
43

72-Hf-182

MAT 7249

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

72-Hf-182



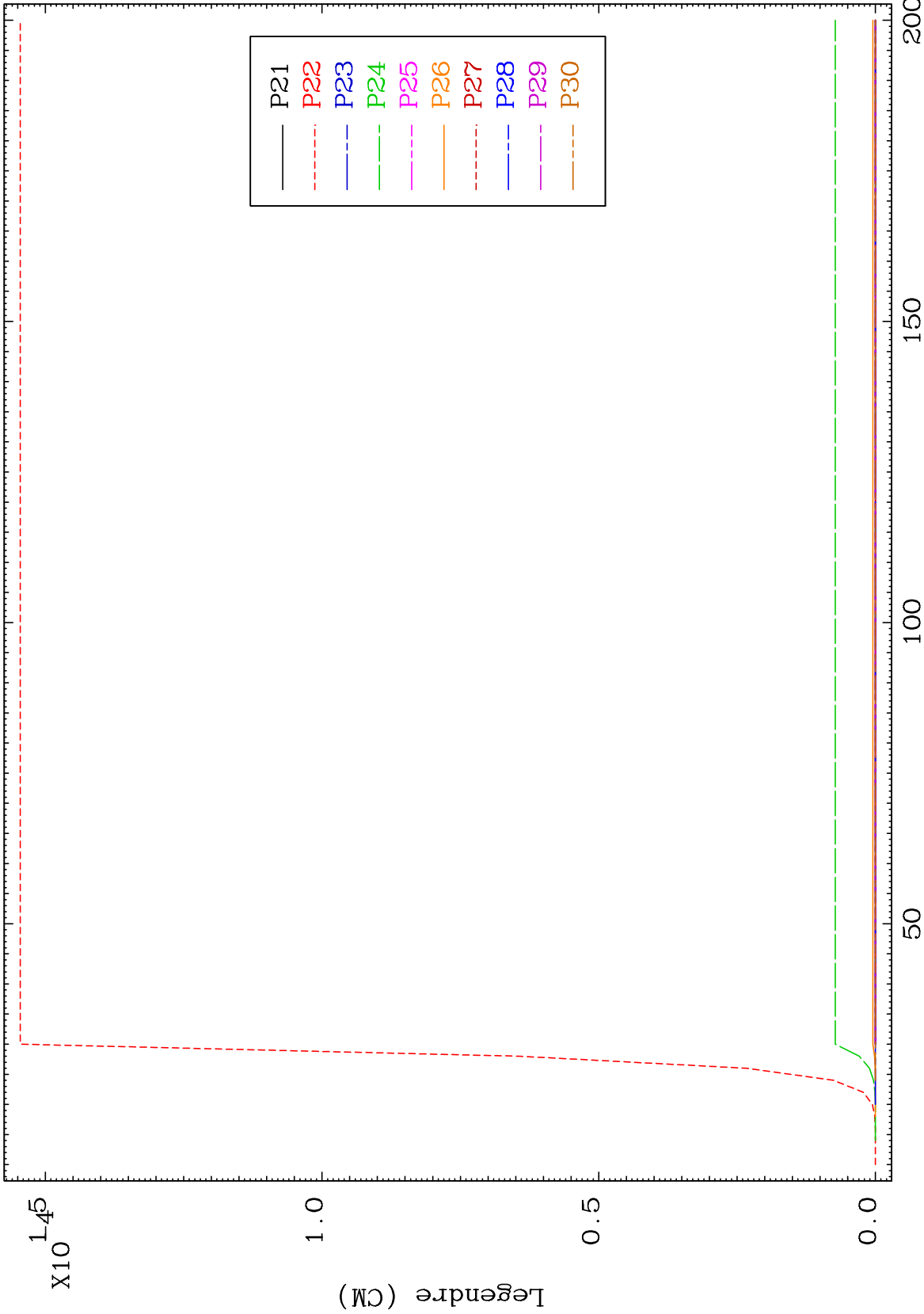
44

72-Hf-182

MAT 7249

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

72-Hf-182



45

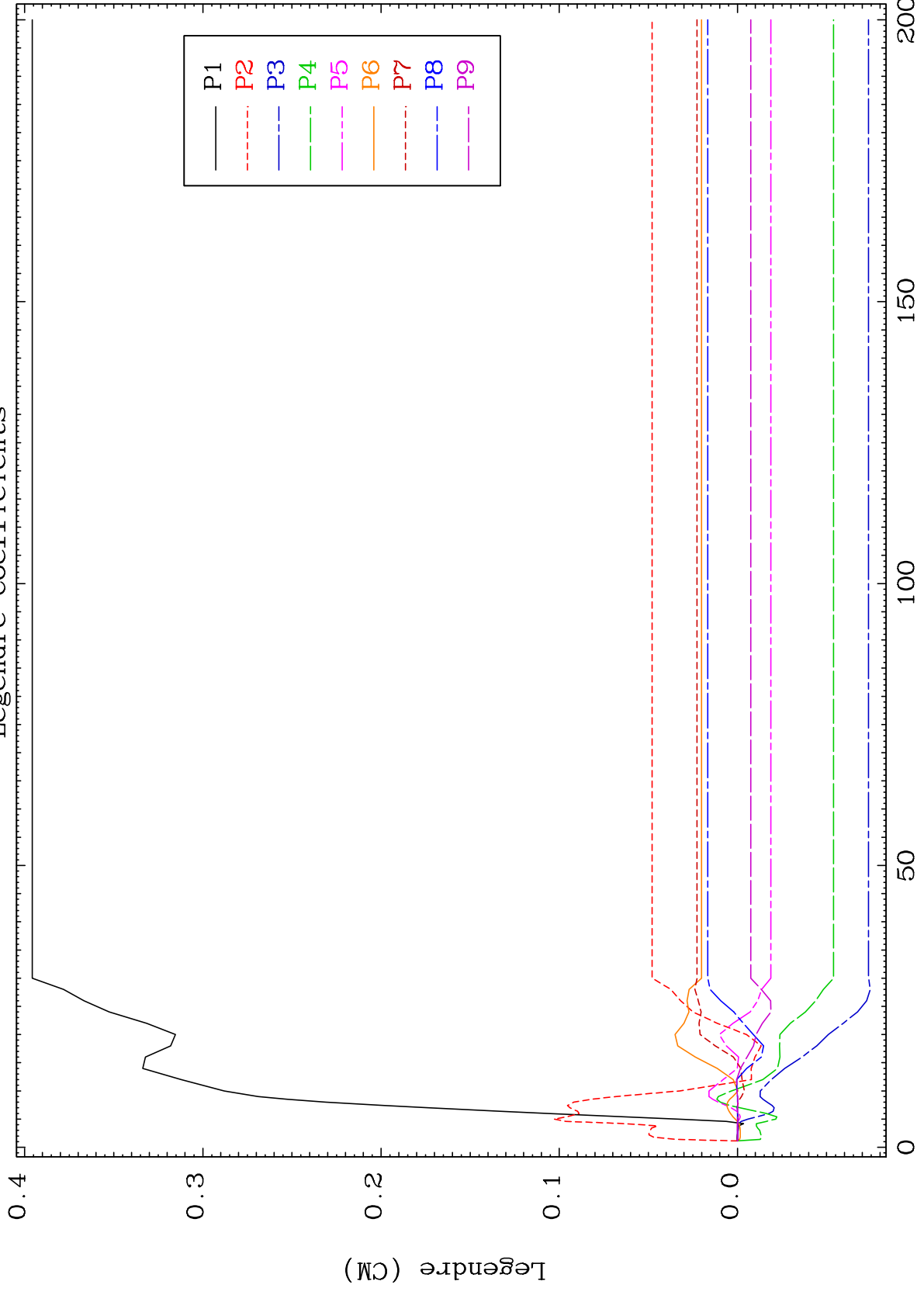
Incident Energy (MeV)

72-Hf-182

MAT 7249

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

72-Hf-182



46

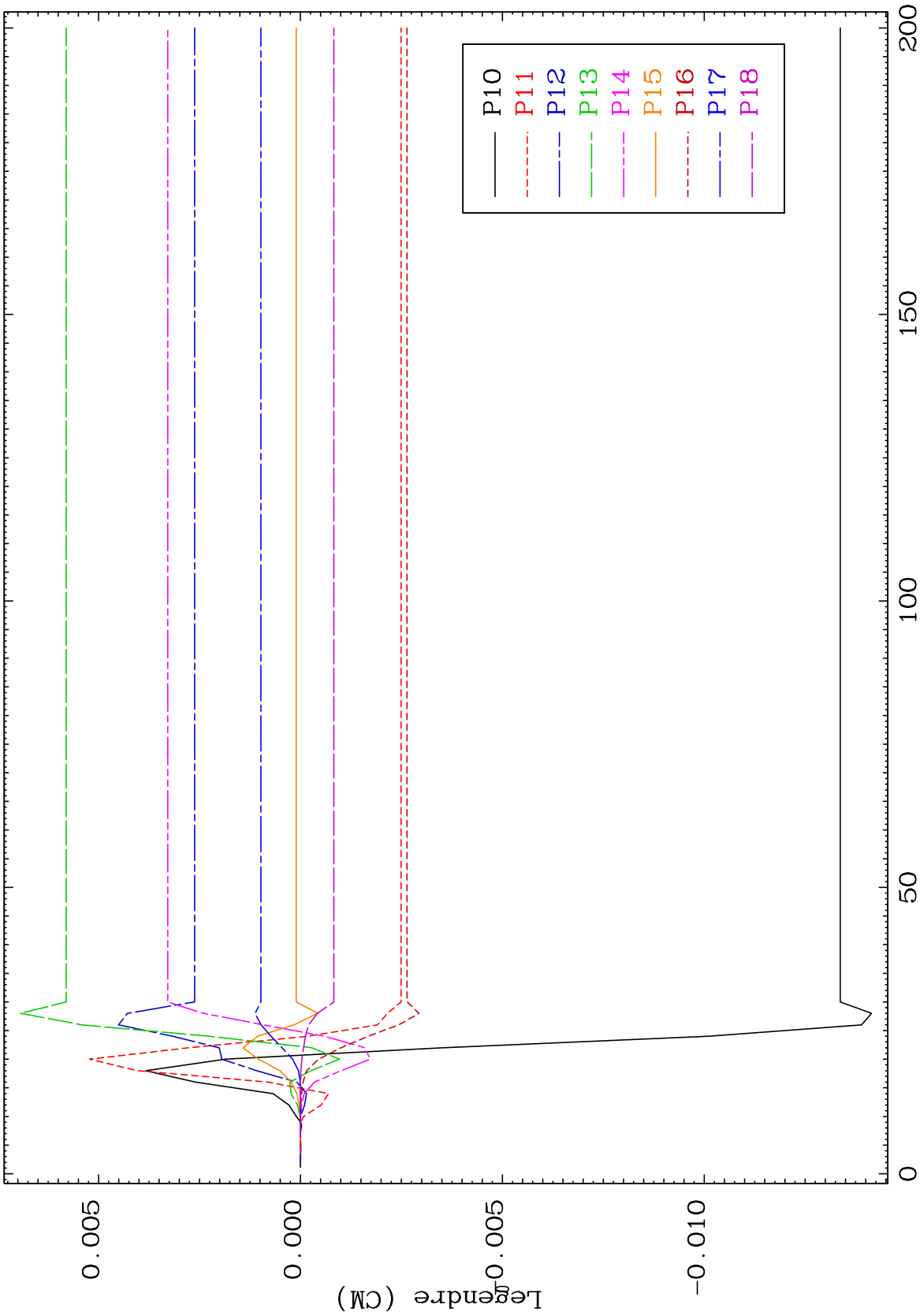
Incident Energy (MeV)

72-Hf-182

MAT 7249

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

72-Hf-182



47

Incident Energy (MeV)

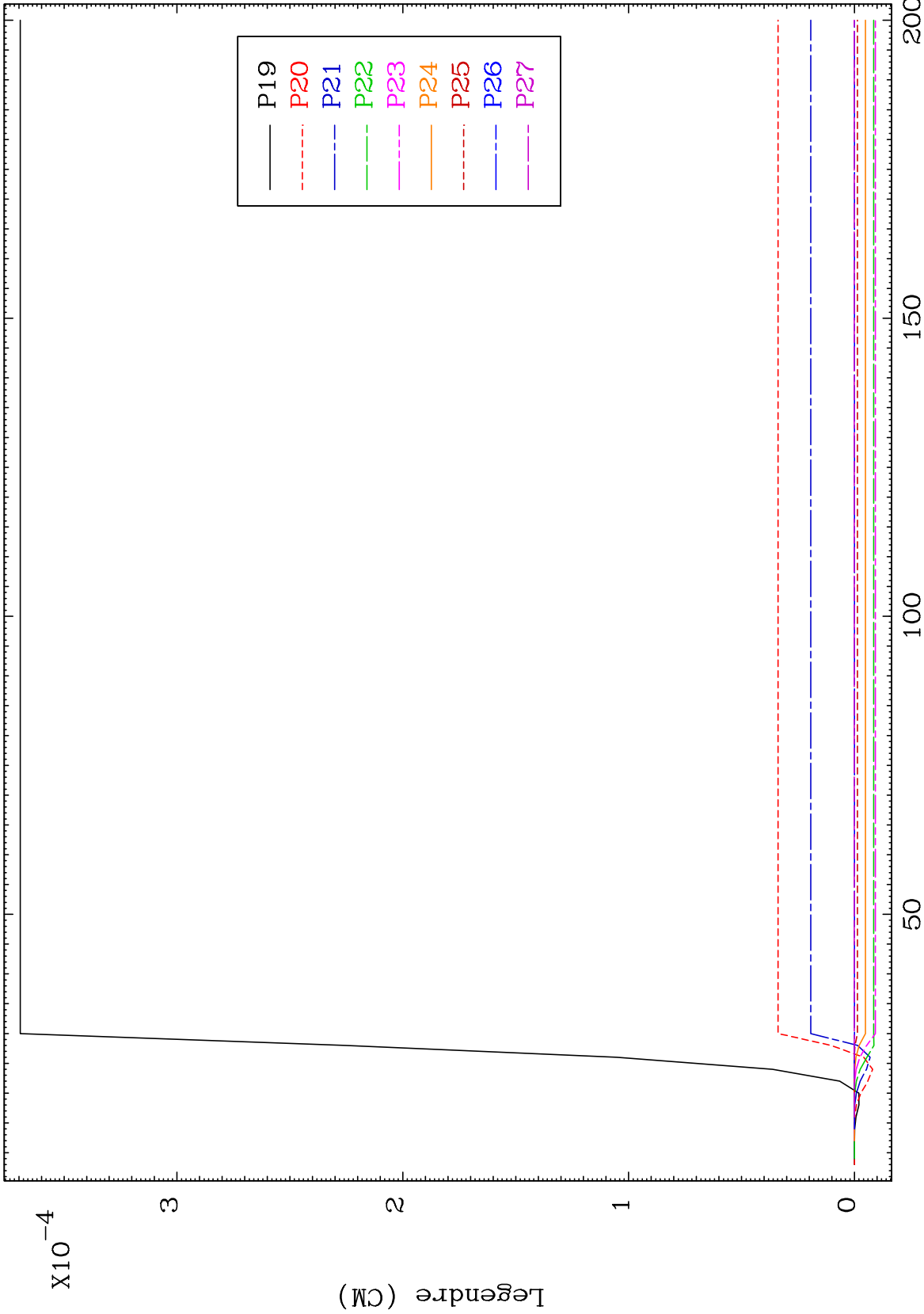
72-Hf-182



MAT 7249

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

72-Hf-182



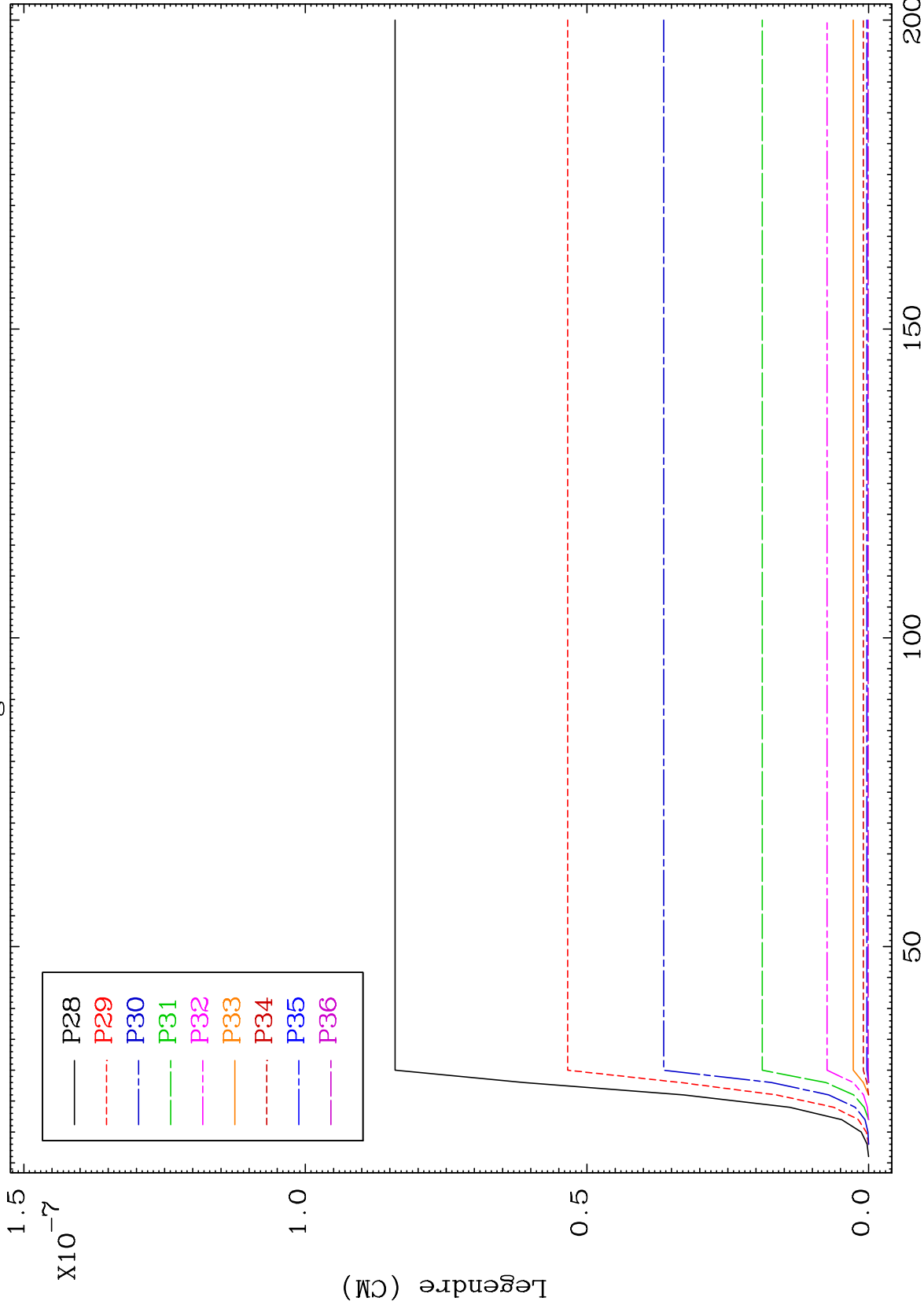
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72-Hf-182

MAT 7249

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

72-Hf-182



49

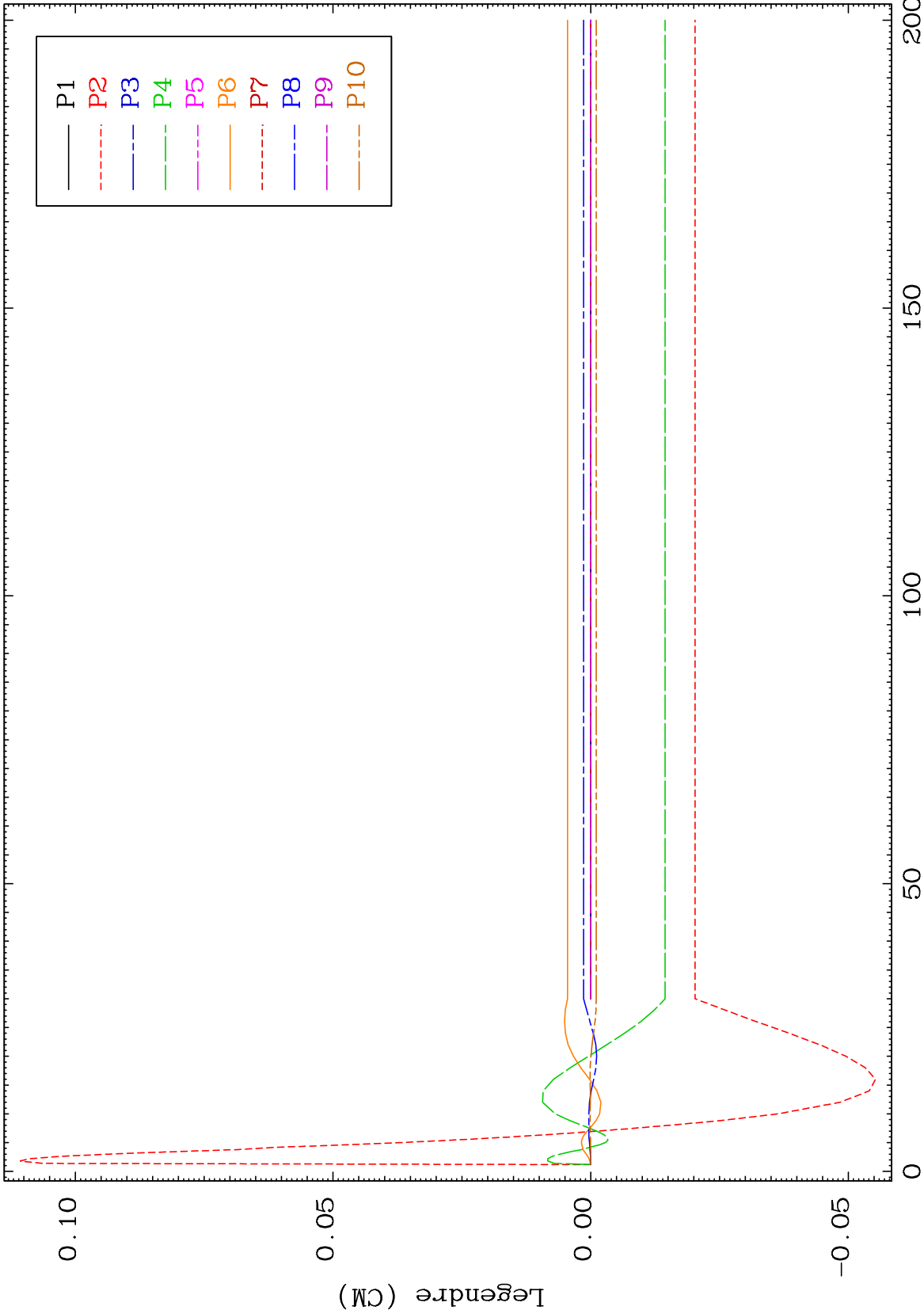
Incident Energy (MeV)

72-Hf-182

MAT 7249

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

72-Hf-182



72-Hf-182

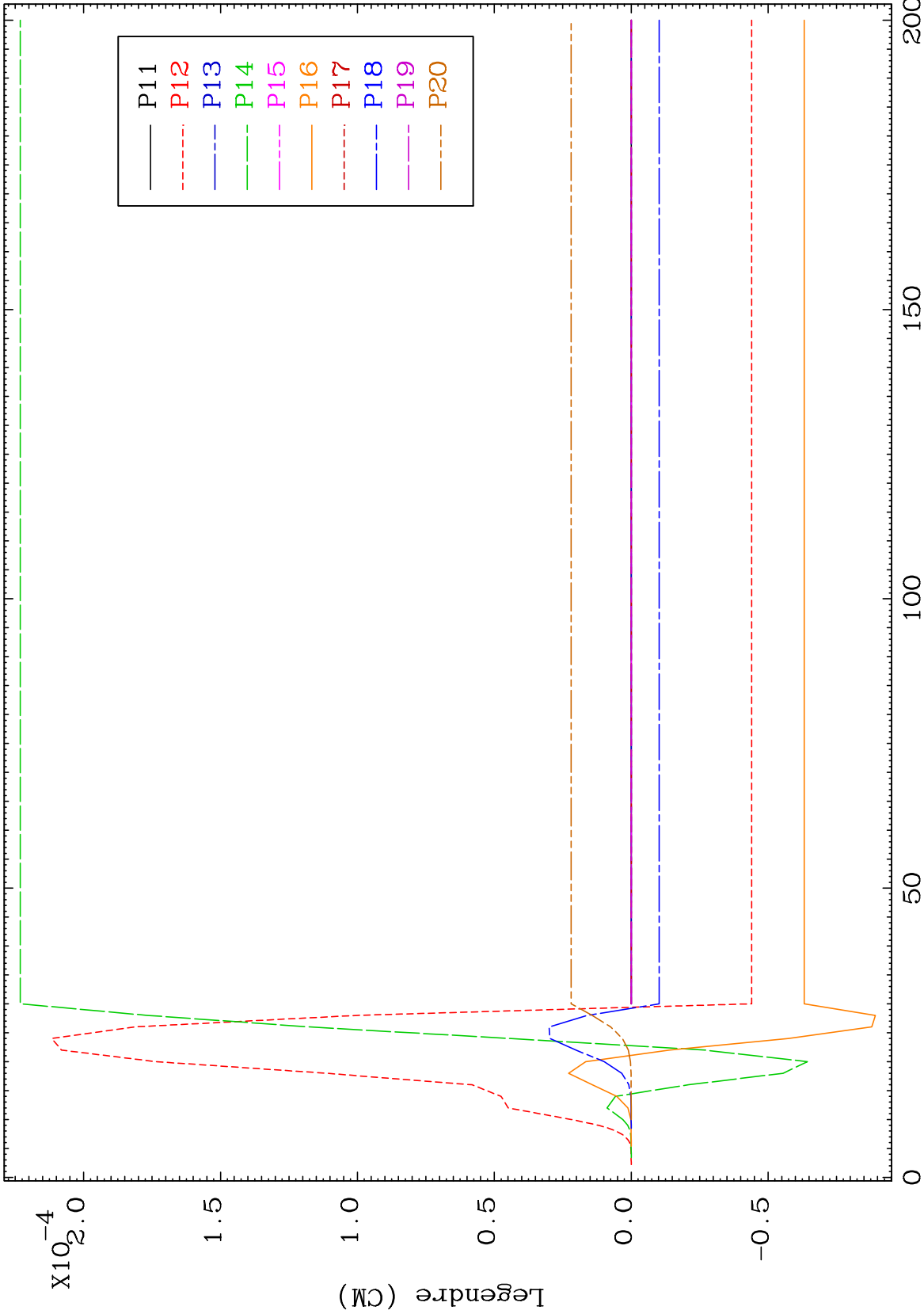
Incident Energy (MeV)

50

MAT 7249

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

72-Hf-182



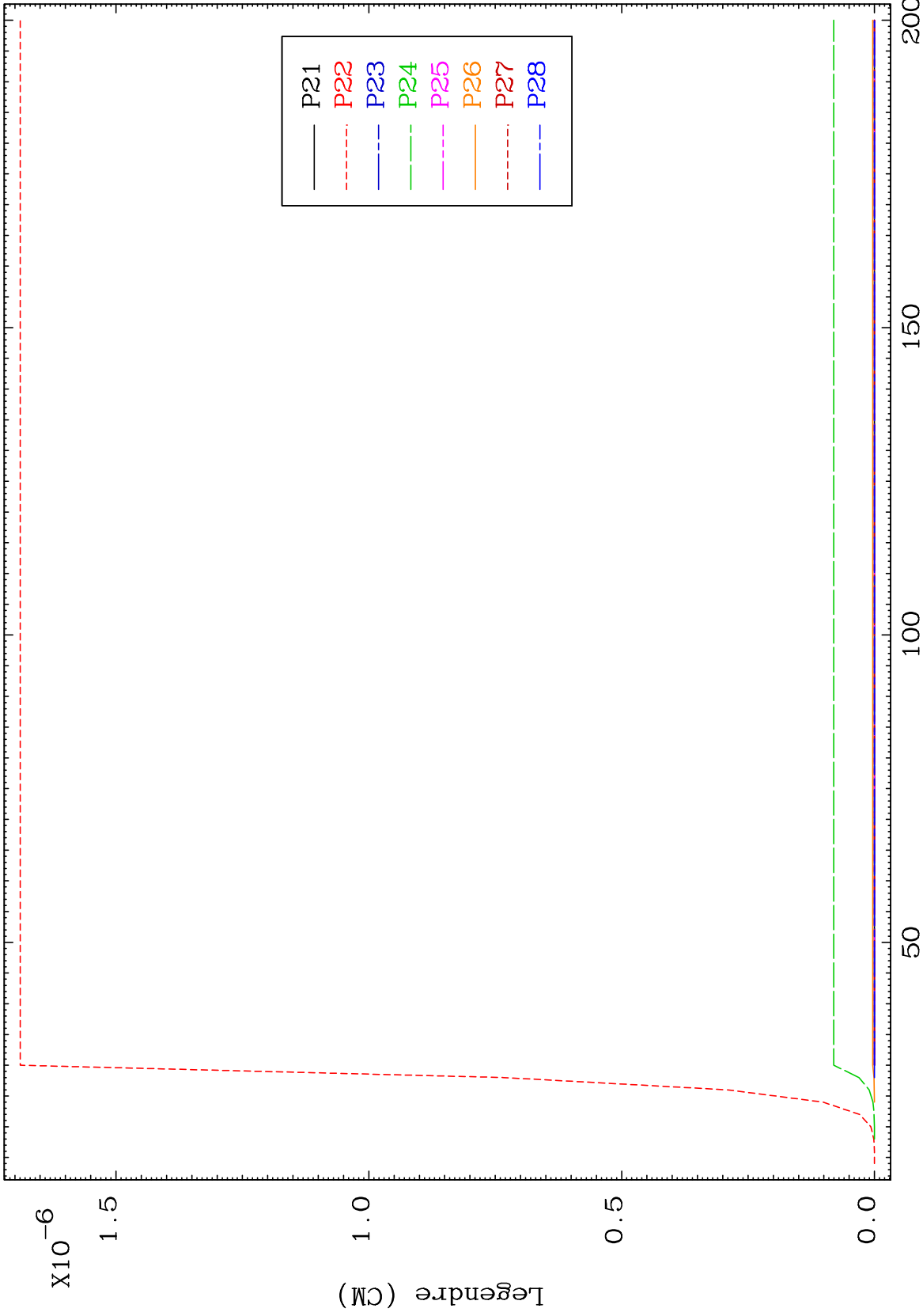
51

72-Hf-182

MAT 7249

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

72-Hf-182



52

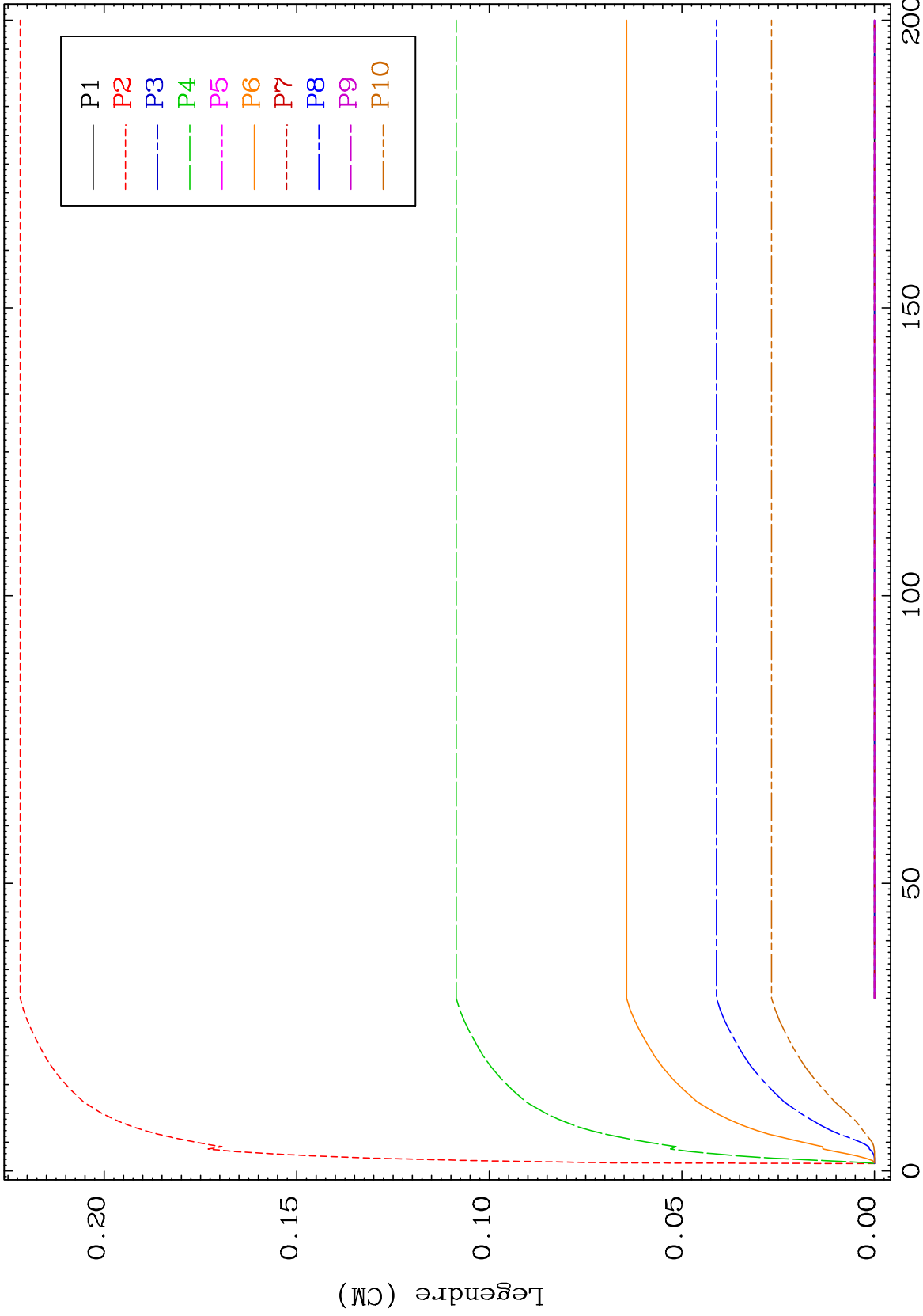
Incident Energy (MeV)

72-Hf-182

MAT 7249

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

72-Hf-182



53

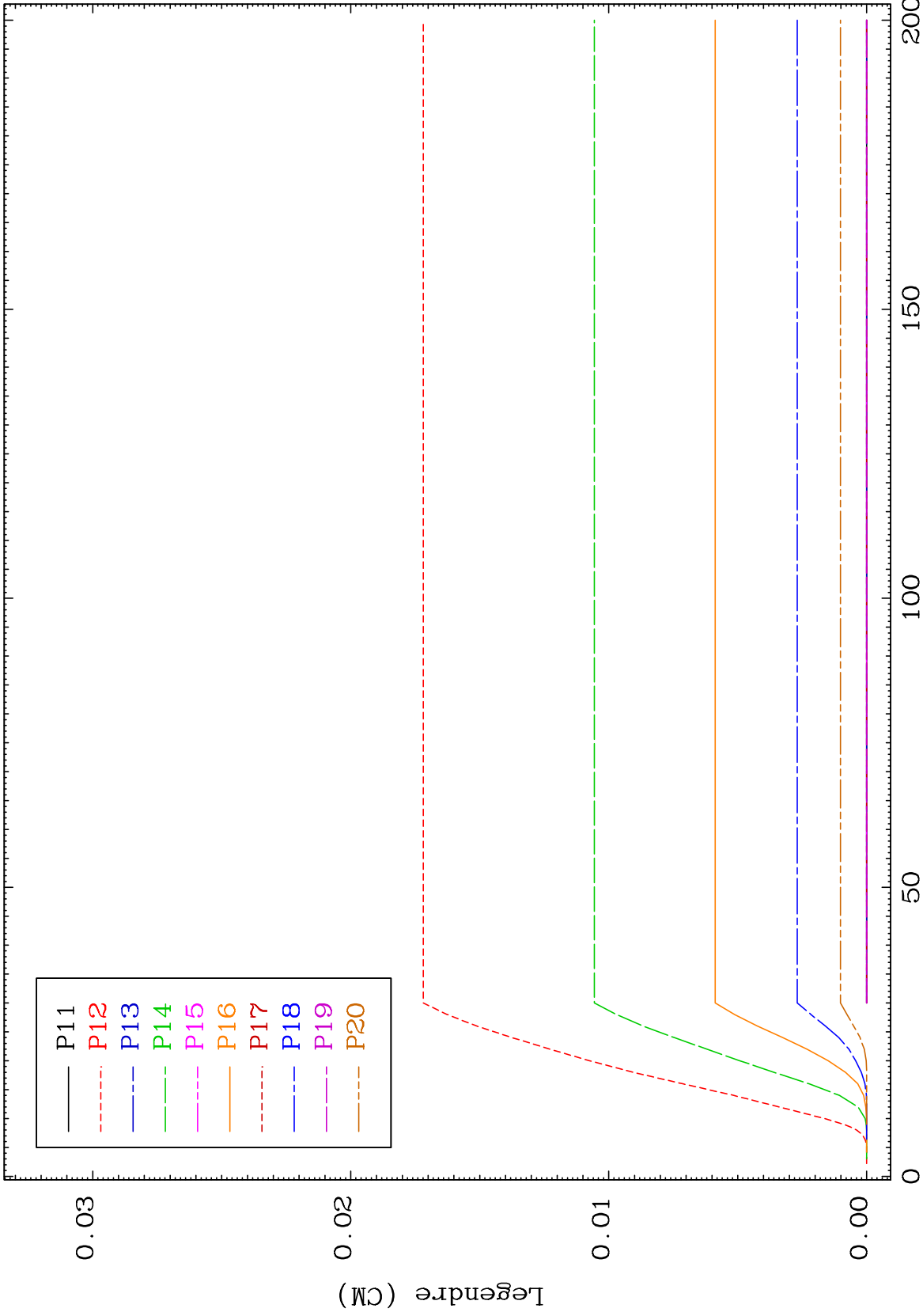
Incident Energy (MeV)

72-Hf-182

MAT 7249

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

72-Hf-182



54

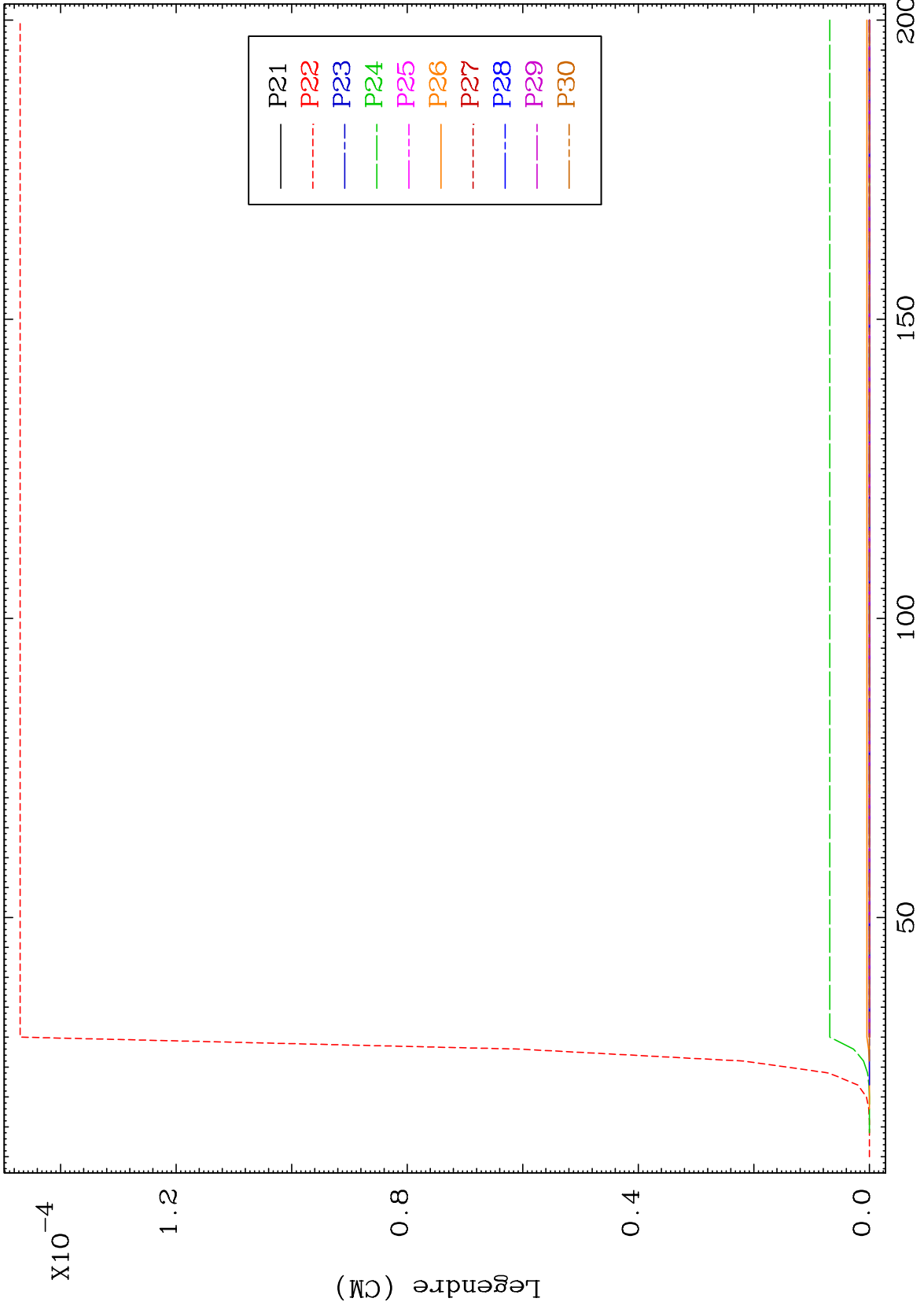
Incident Energy (MeV)

72-Hf-182

MAT 7249

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

72-Hf-182



55

Incident Energy (MeV)

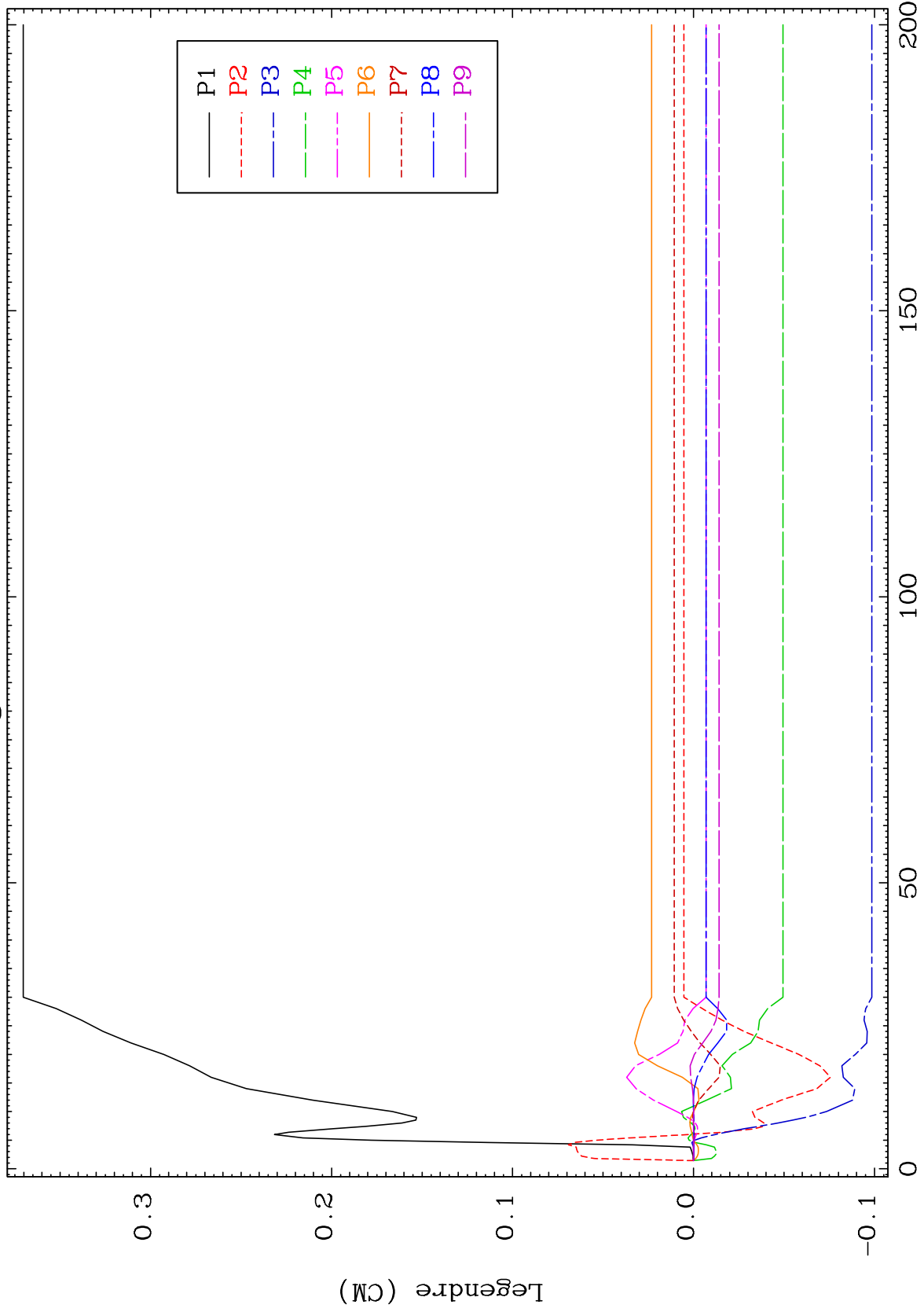
72-Hf-182



MAT 7249

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

72-Hf-182



56

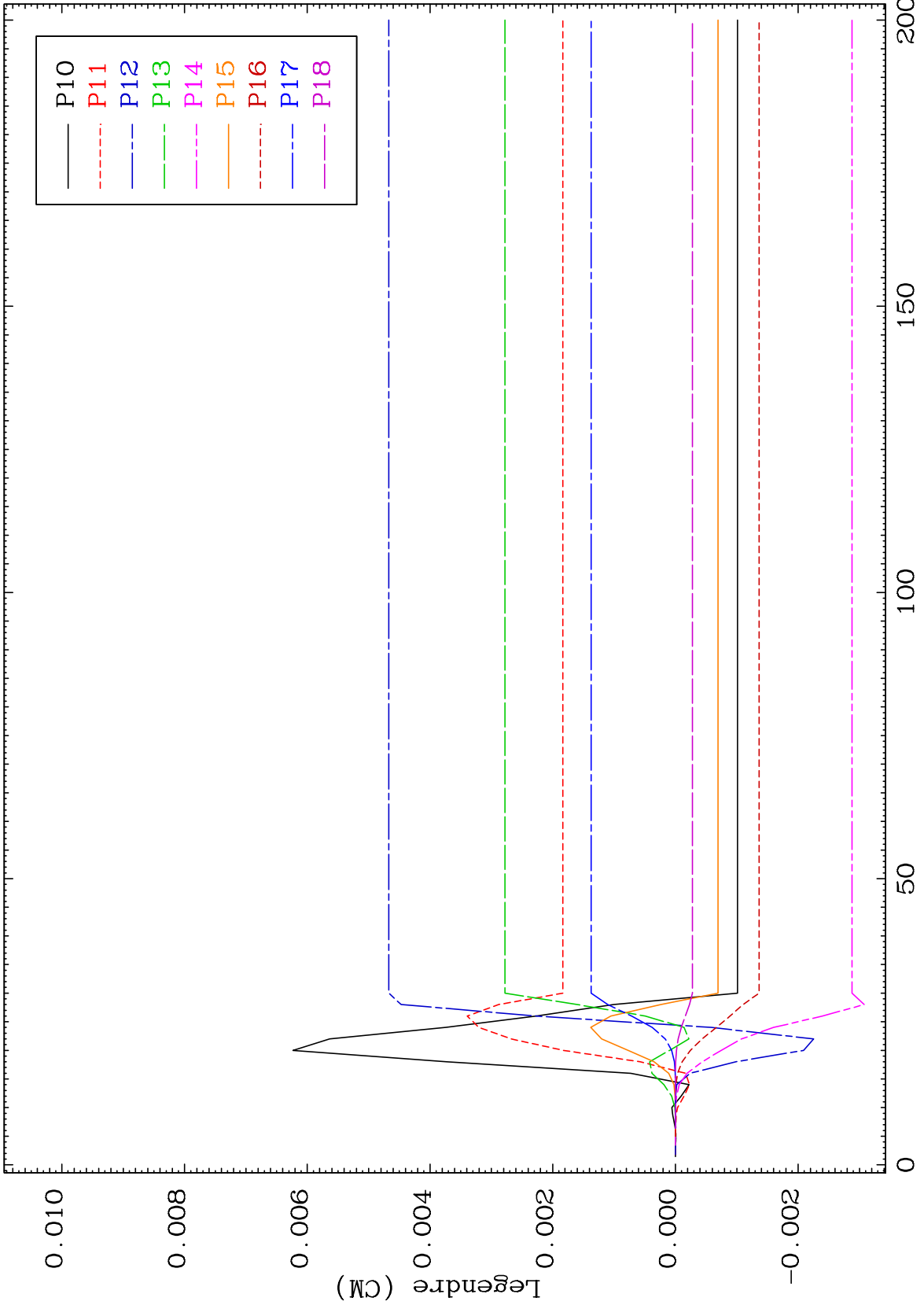
Incident Energy (MeV)

72-Hf-182

MAT 7249

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

72-Hf-182



57

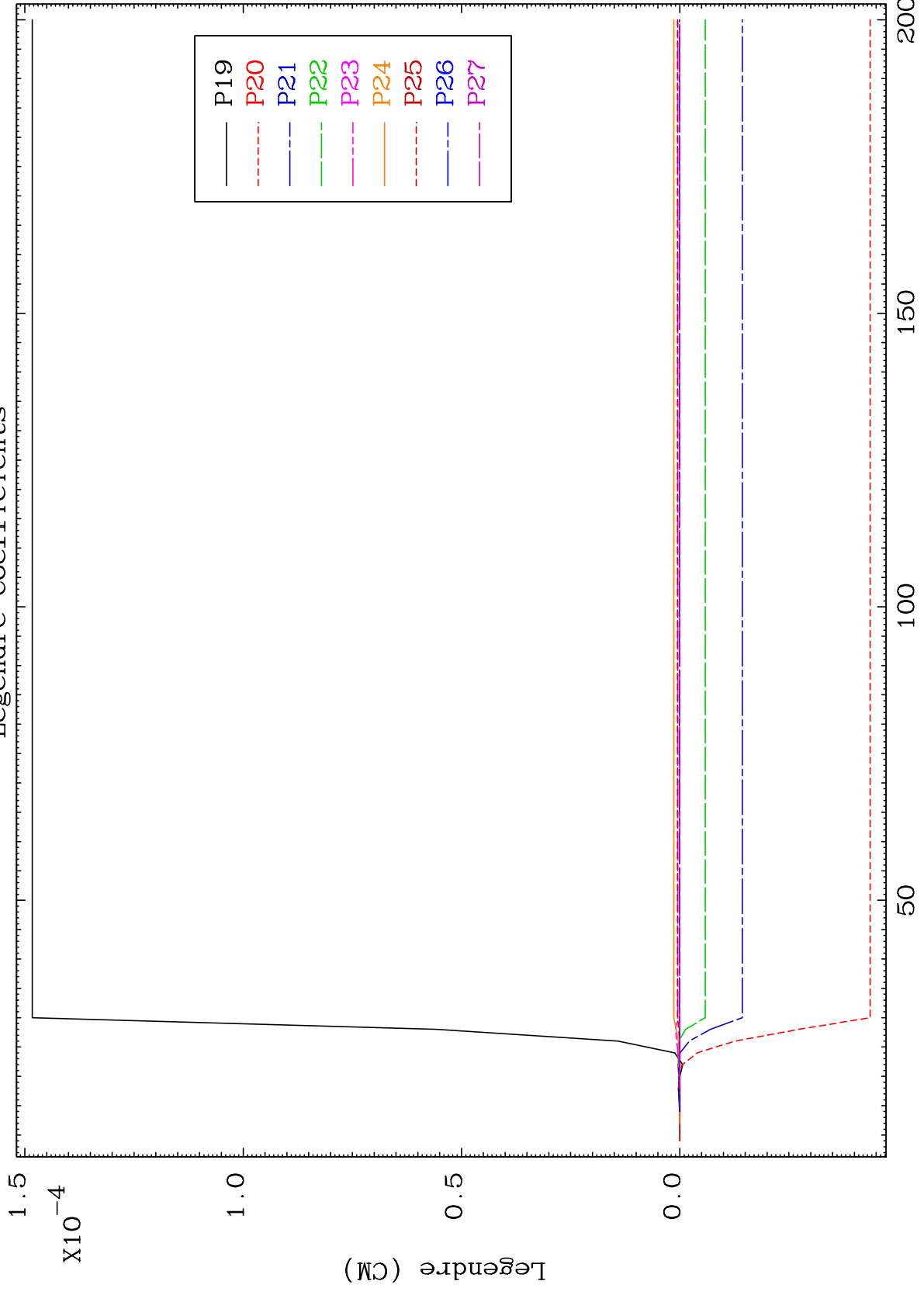
Incident Energy (MeV)

72-Hf-182

MAT 7249

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

72-Hf-182



58

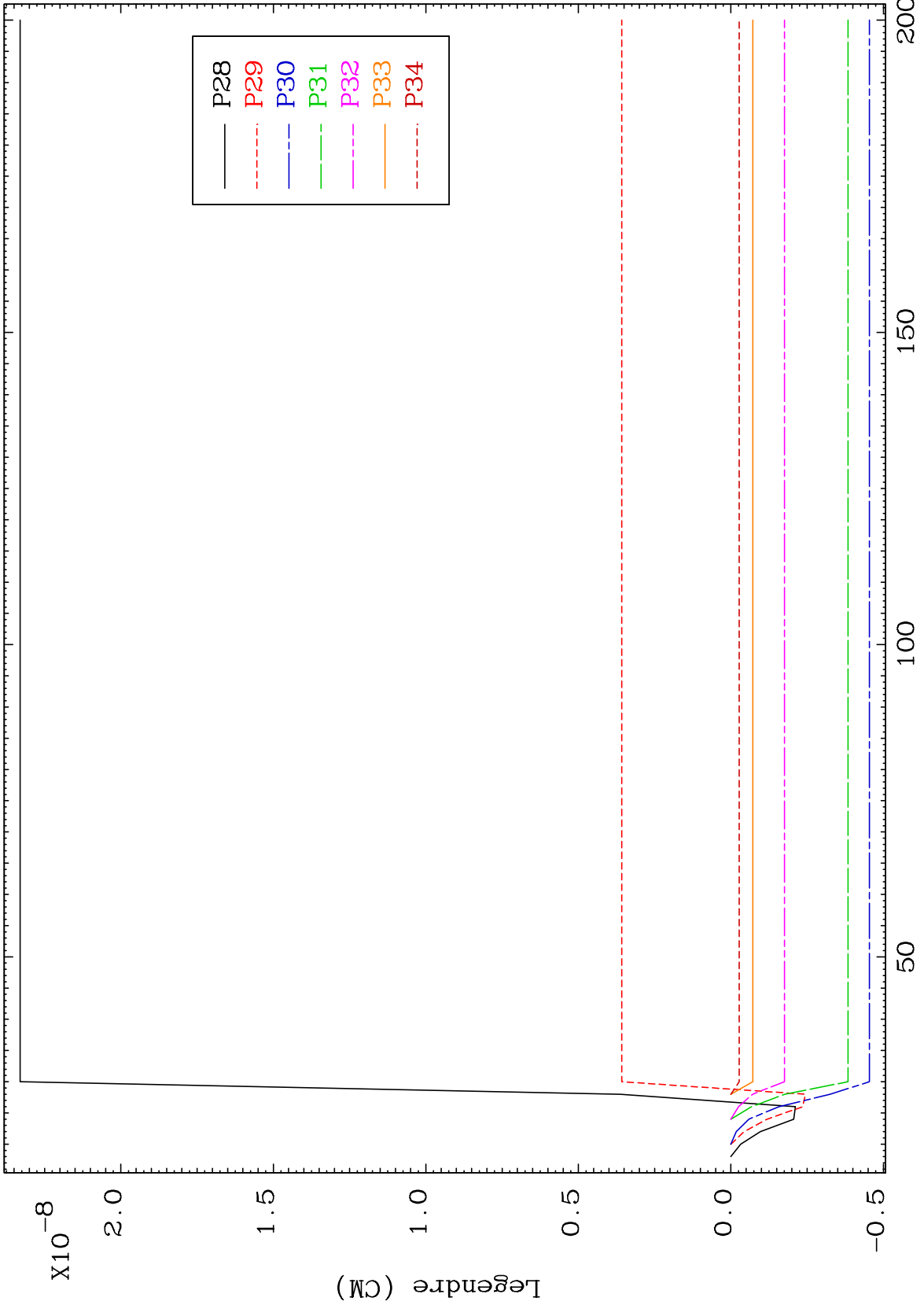
Incident Energy (MeV)

72-Hf-182

MAT 7249

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

72-Hf-182



59

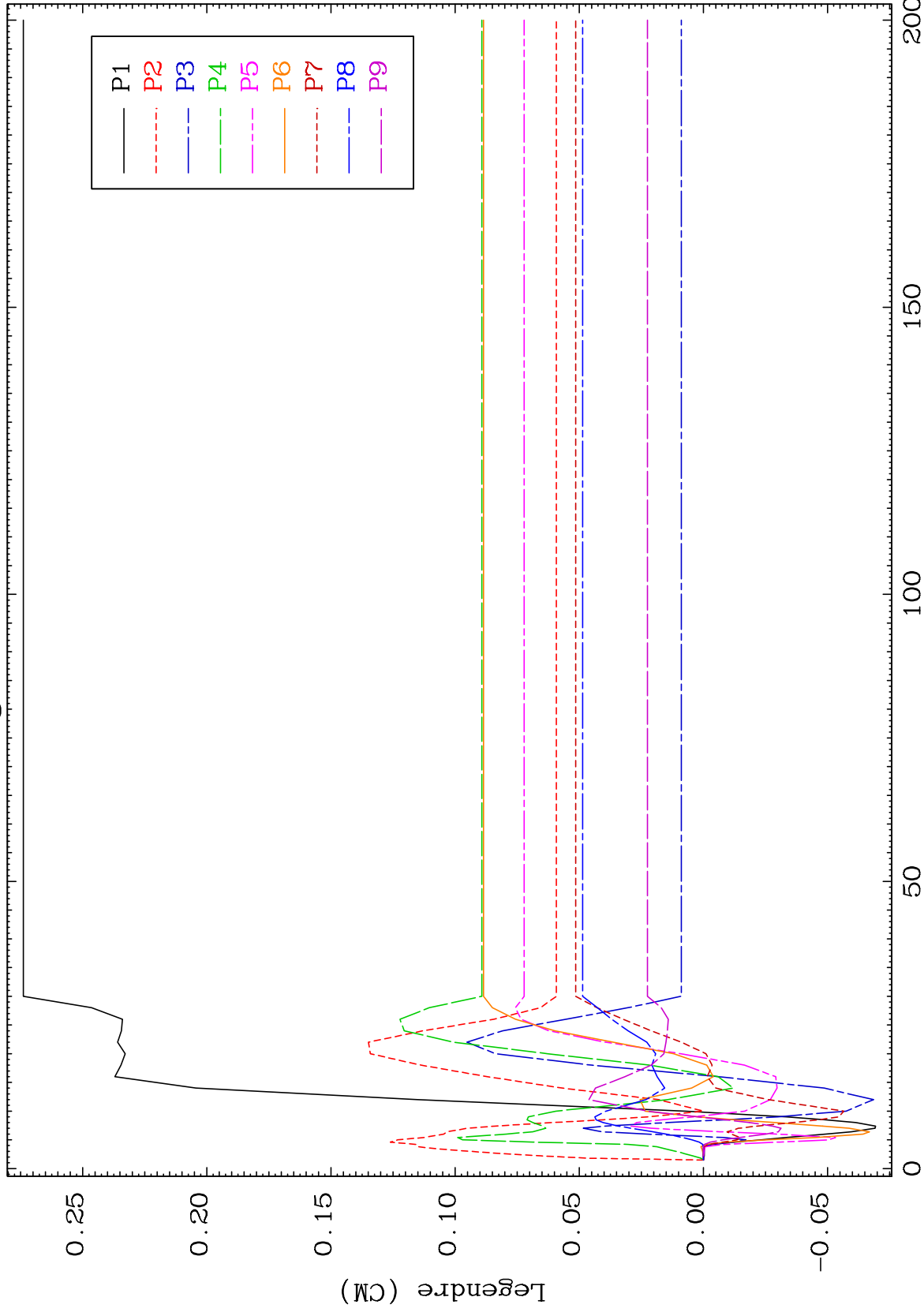
Incident Energy (MeV)

72-Hf-182

MAT 7249

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

72-Hf-182



72-Hf-182

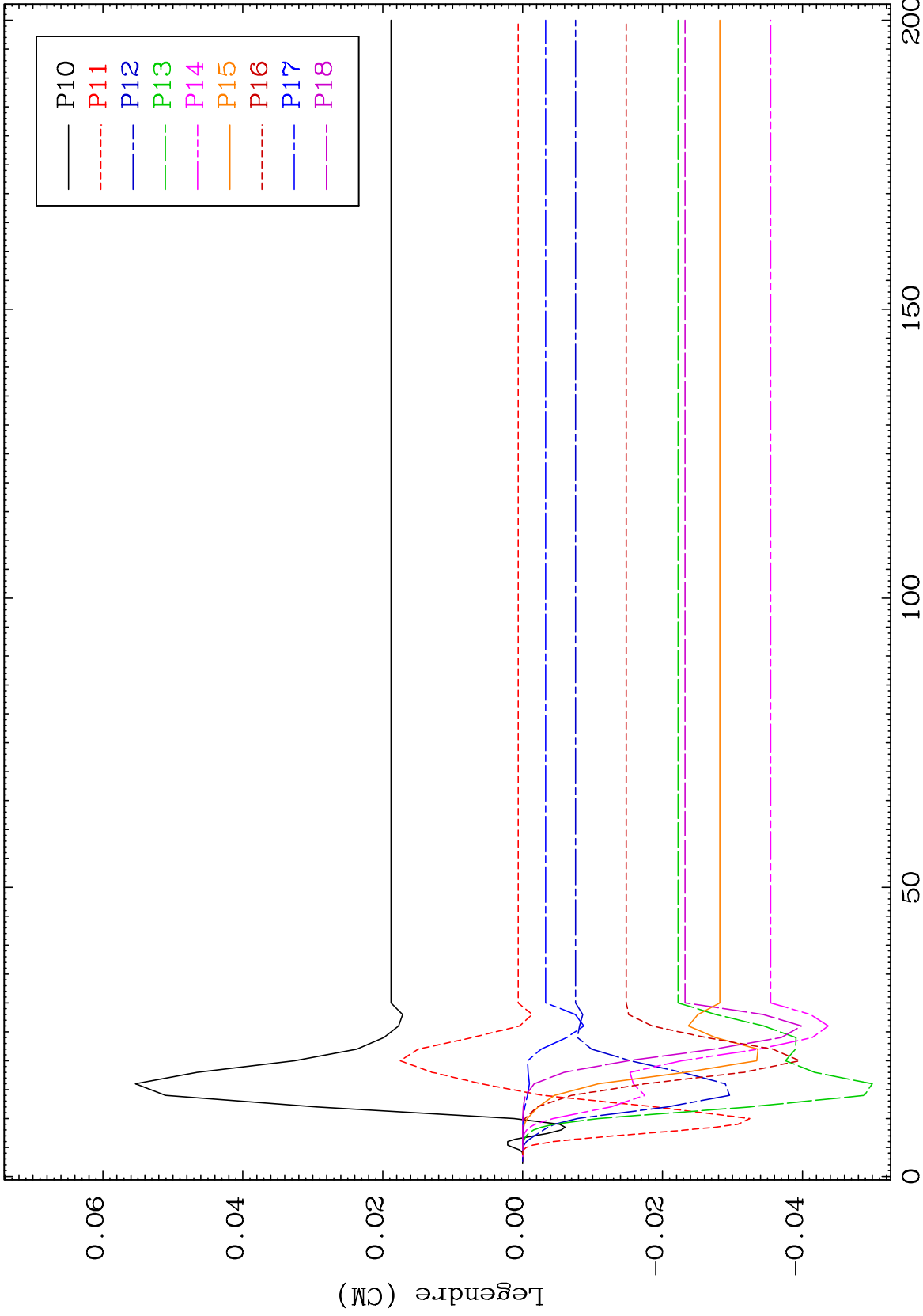
Incident Energy (MeV)

60

MAT 7249

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

72-Hf-182

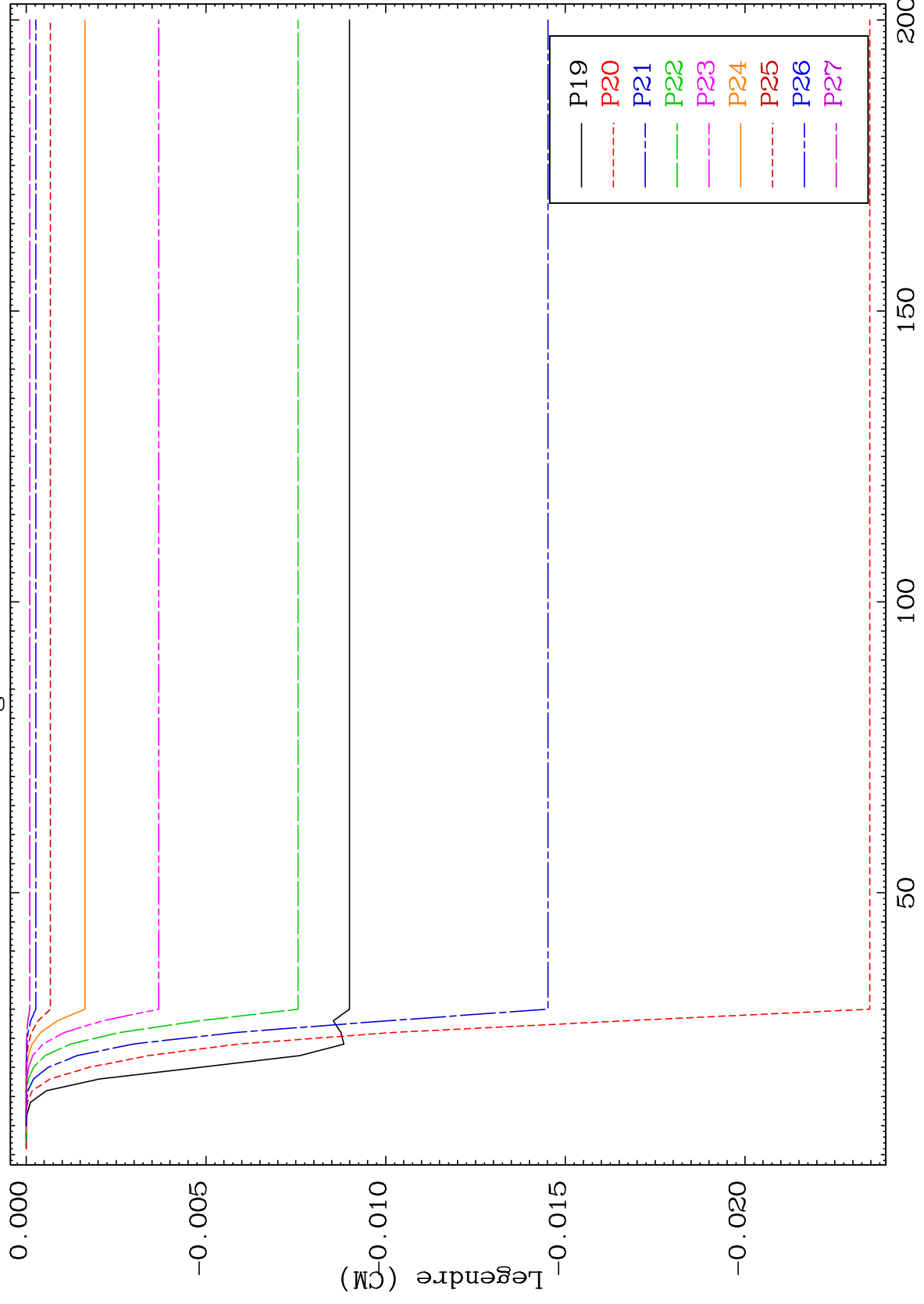


61

Incident Energy (MeV)

72-Hf-182

MAT 7249 MT= 62 (n,n') Level Legendre Coefficients 72-Hf-182

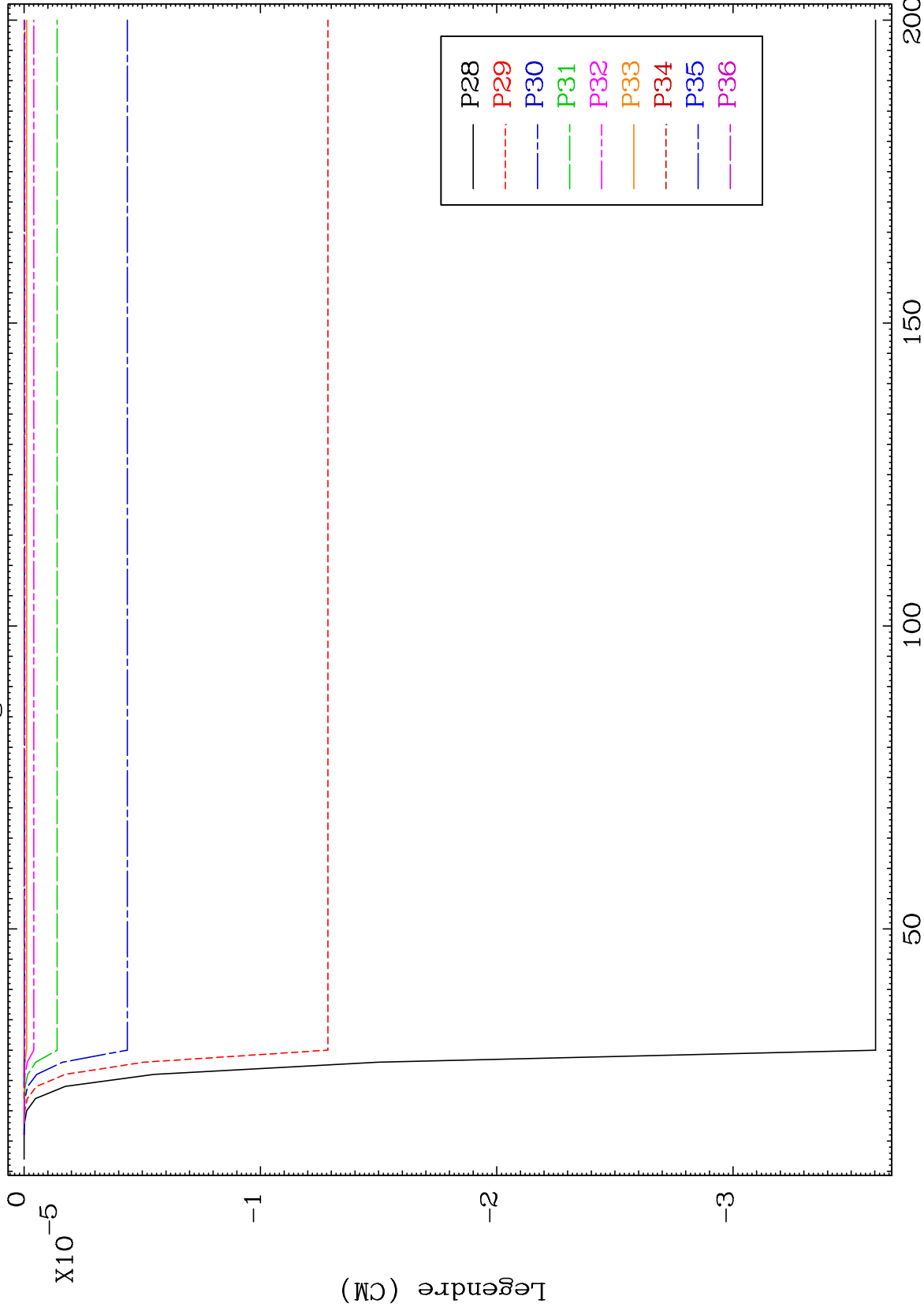


62 72-Hf-182

MAT 7249

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

72-Hf-182



63

Incident Energy (MeV)

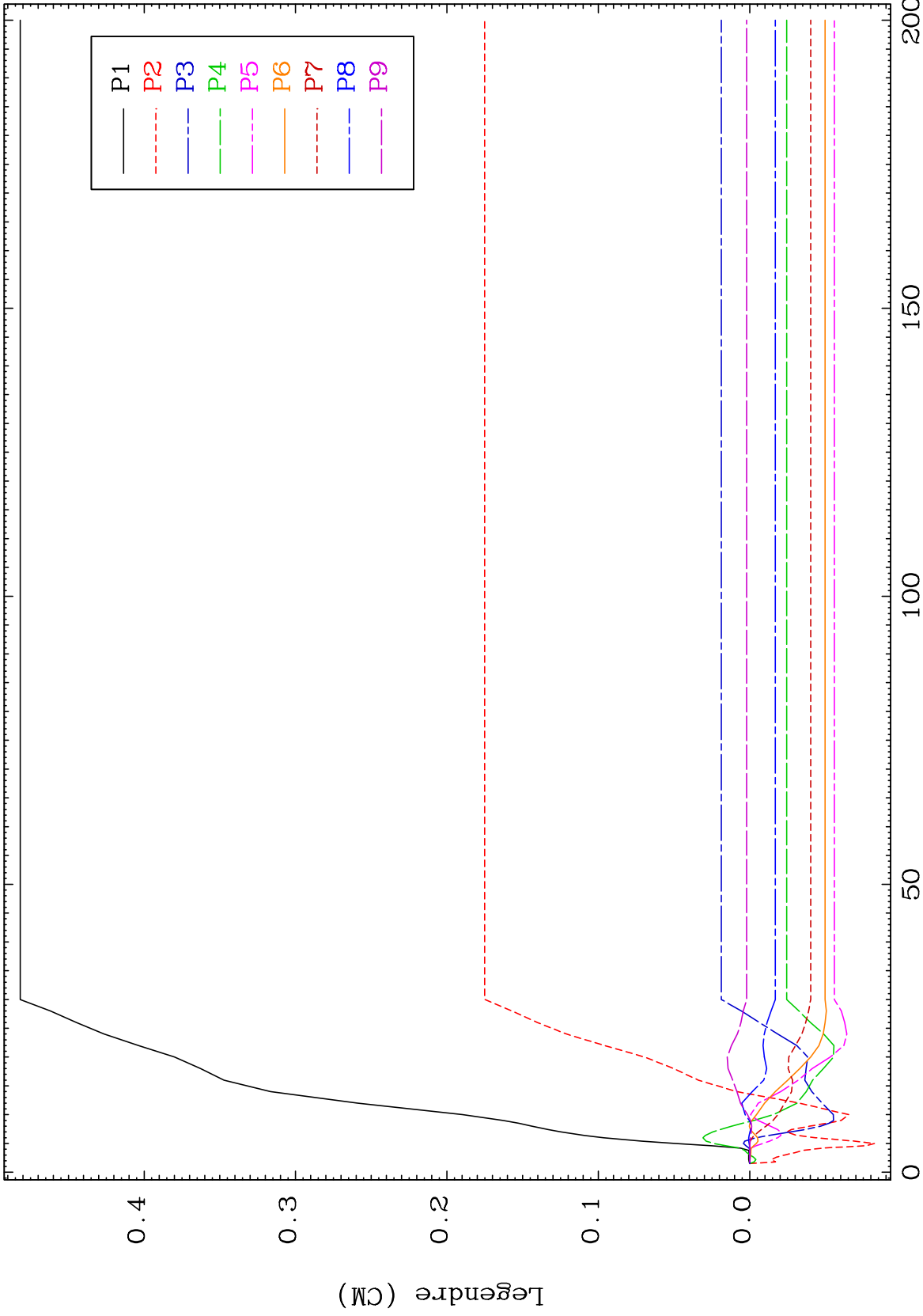
72-Hf-182



MAT 7249

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

72-Hf-182



64

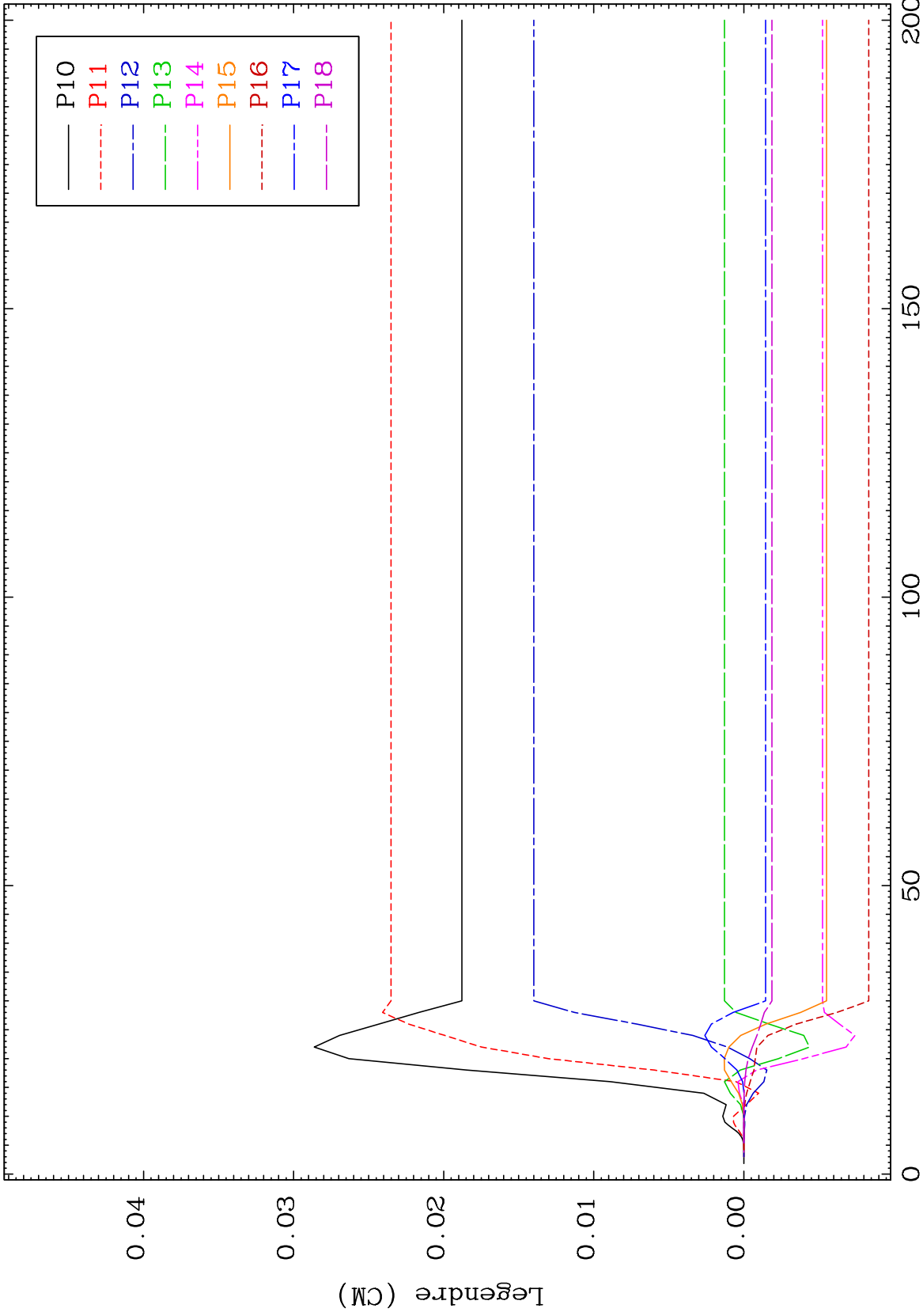
Incident Energy (MeV)

72-Hf-182

MAT 7249

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

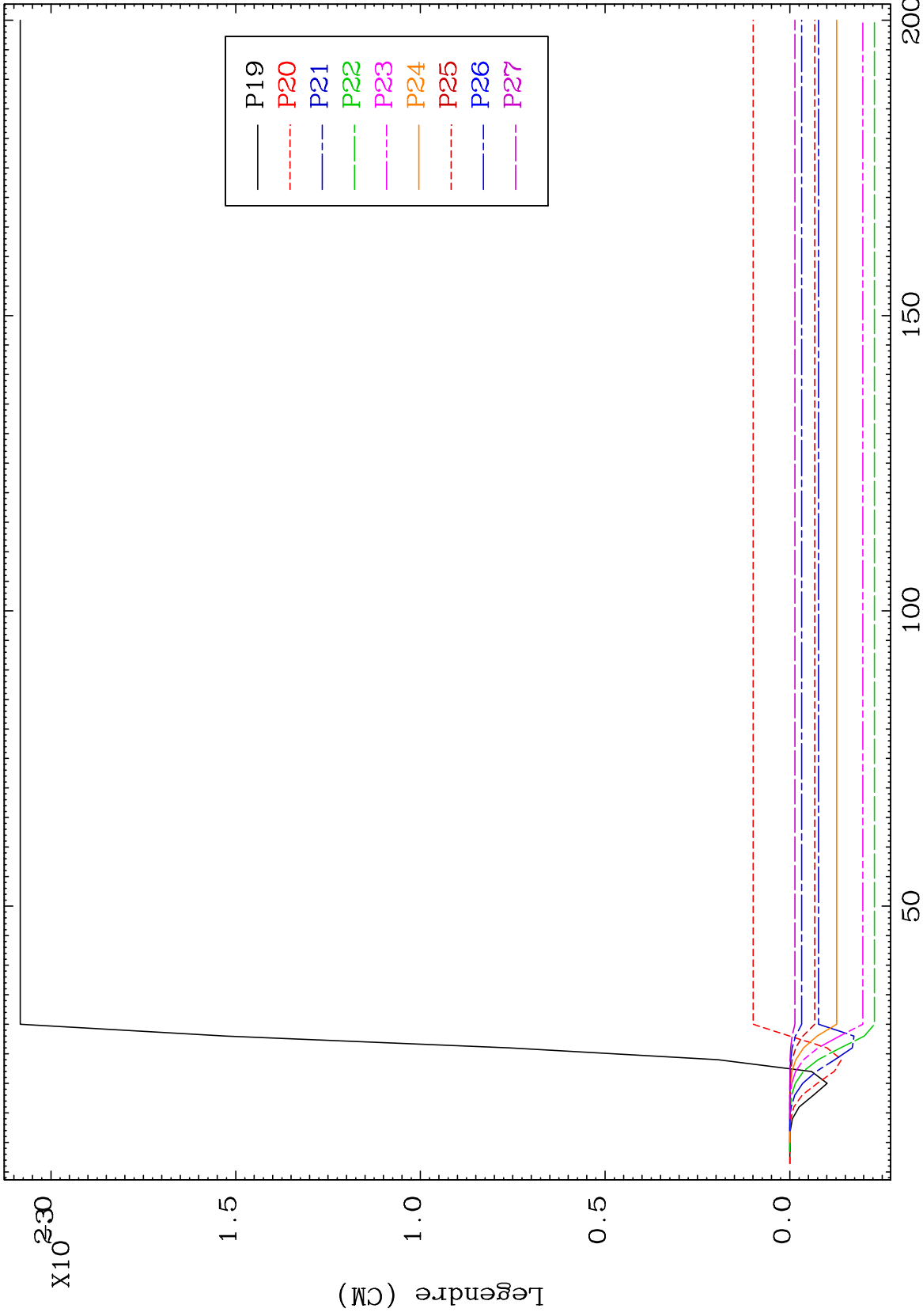
72-Hf-182



65

Incident Energy (MeV)

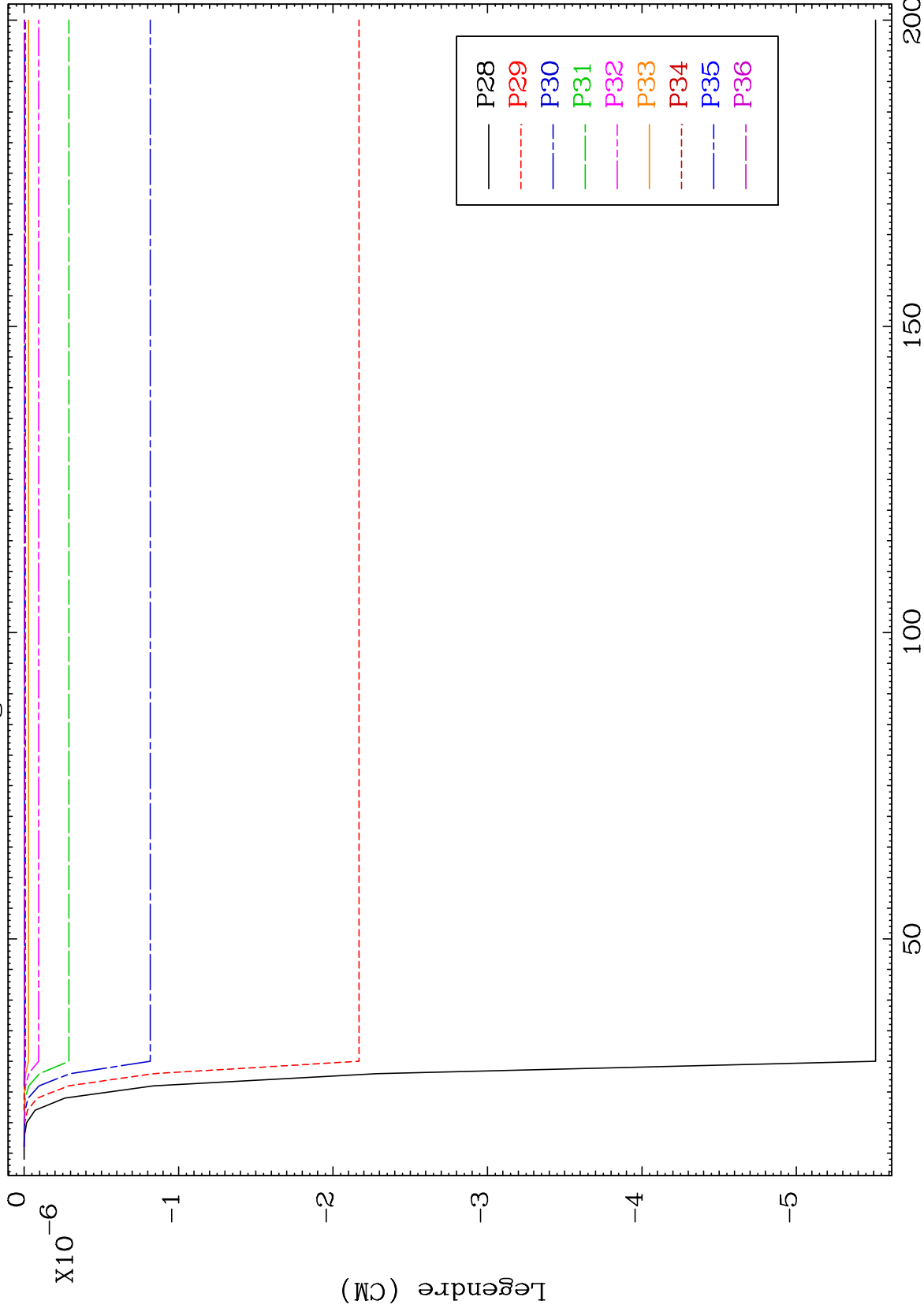
72-Hf-182



MAT 7249

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

72-Hf-182



67

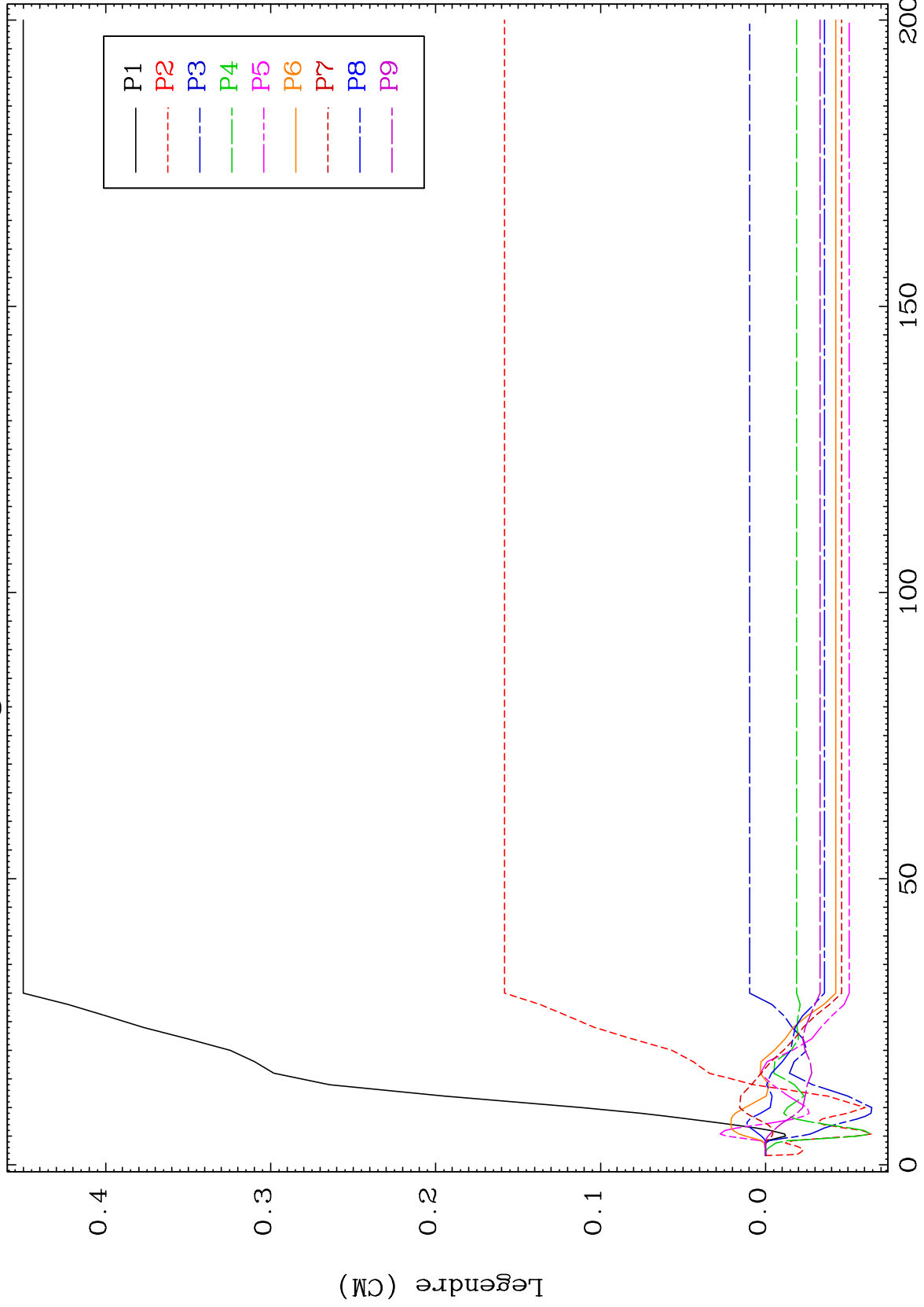
Incident Energy (MeV)

72-Hf-182

MAT 7249

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

72-Hf-182



68

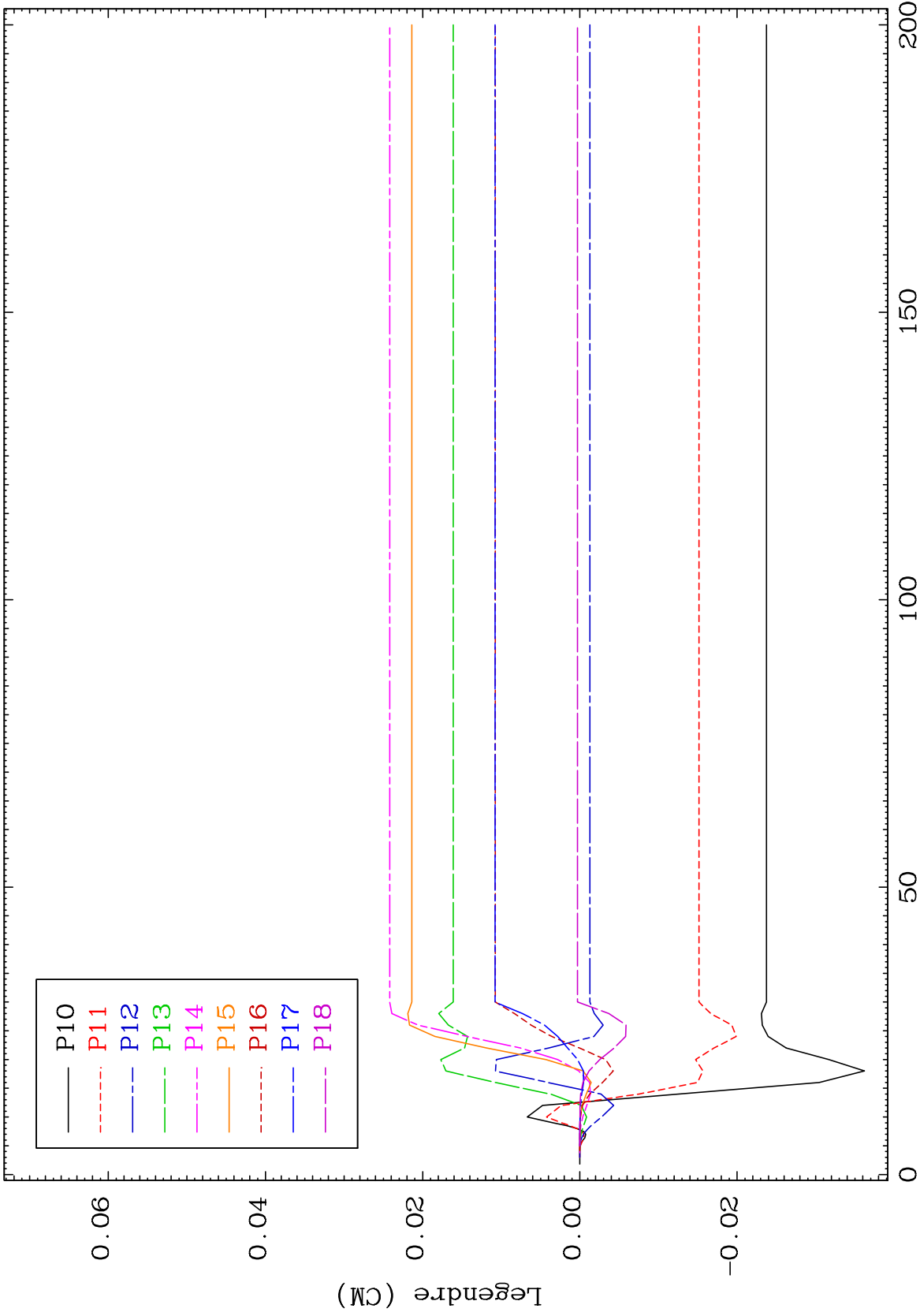
Incident Energy (MeV)

72-Hf-182

MAT 7249

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

72-Hf-182



69

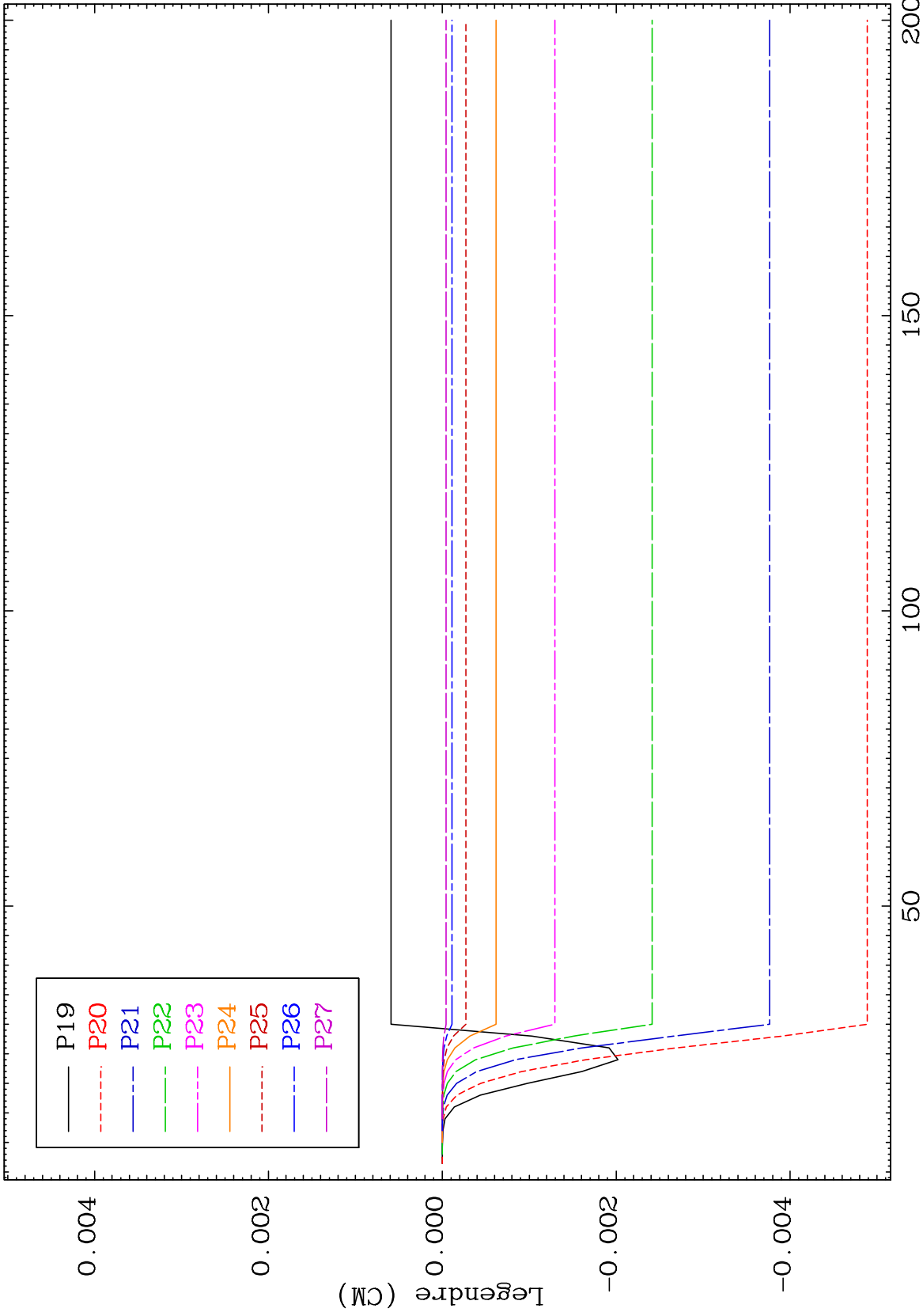
Incident Energy (MeV)

72-Hf-182

MAT 7249

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

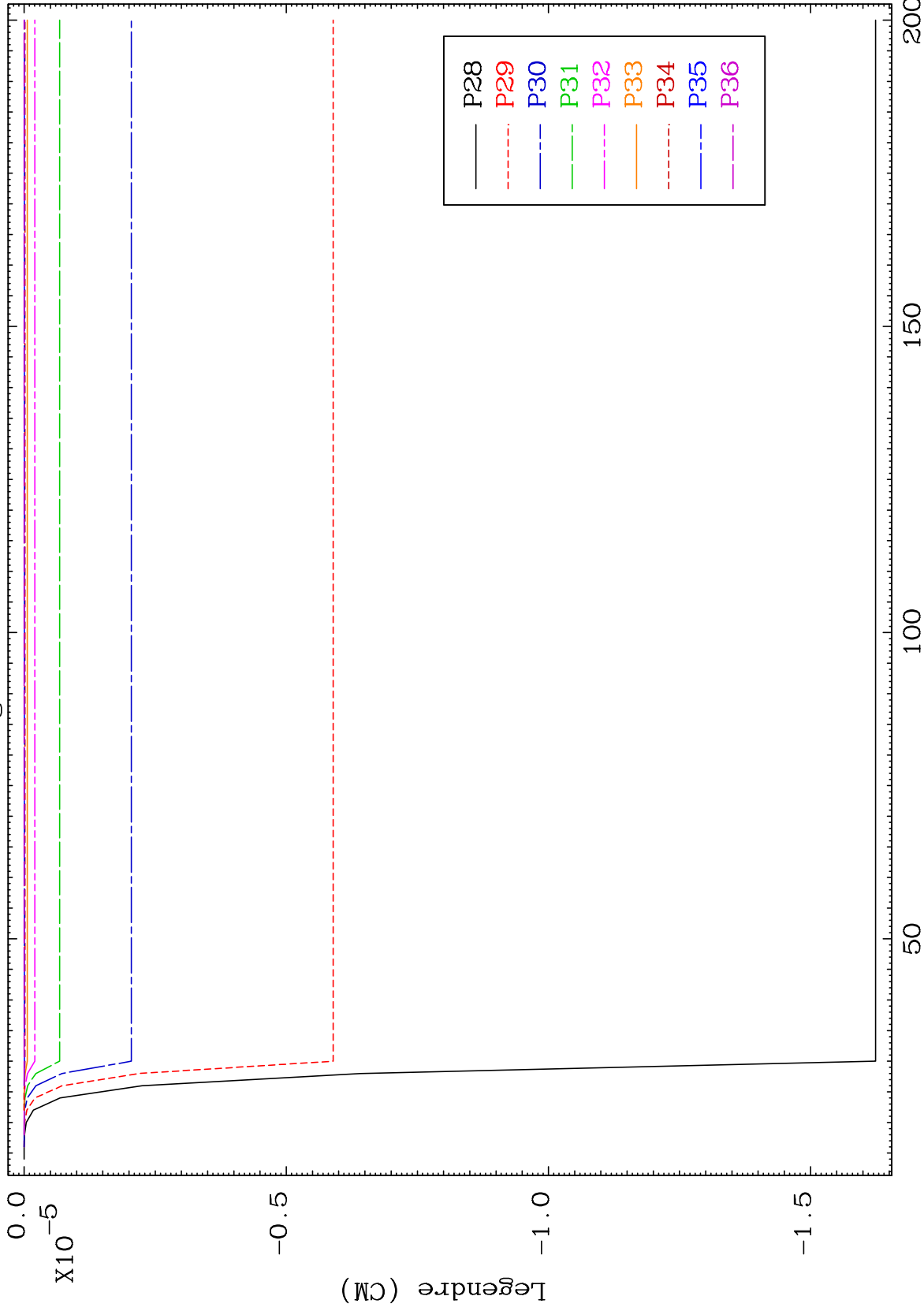
72-Hf-182



70

Incident Energy (MeV)

72-Hf-182

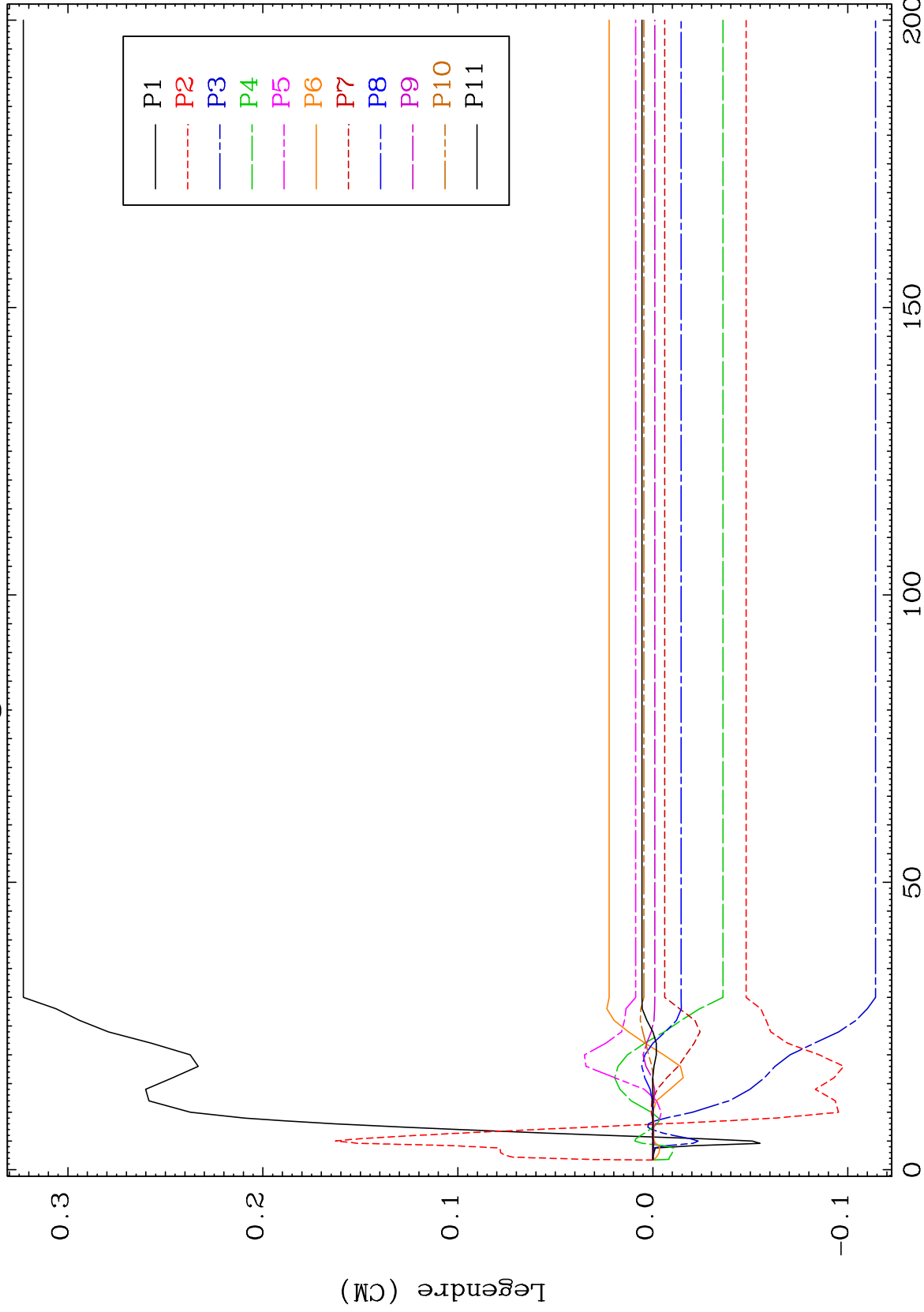




MAT 7249

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

72-Hf-182



72

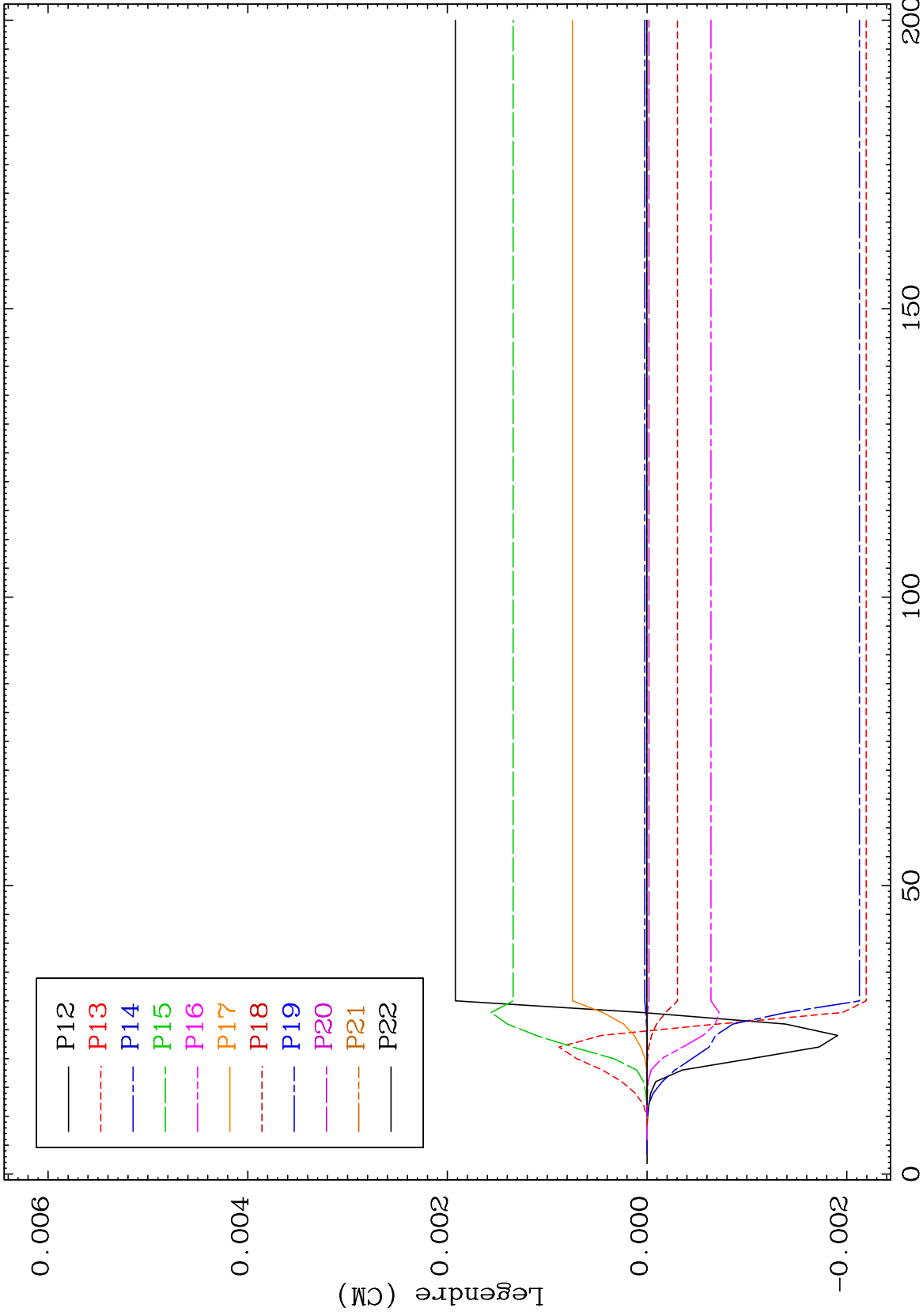
Incident Energy (MeV)

72-Hf-182

MAT 7249

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

72-Hf-182



73

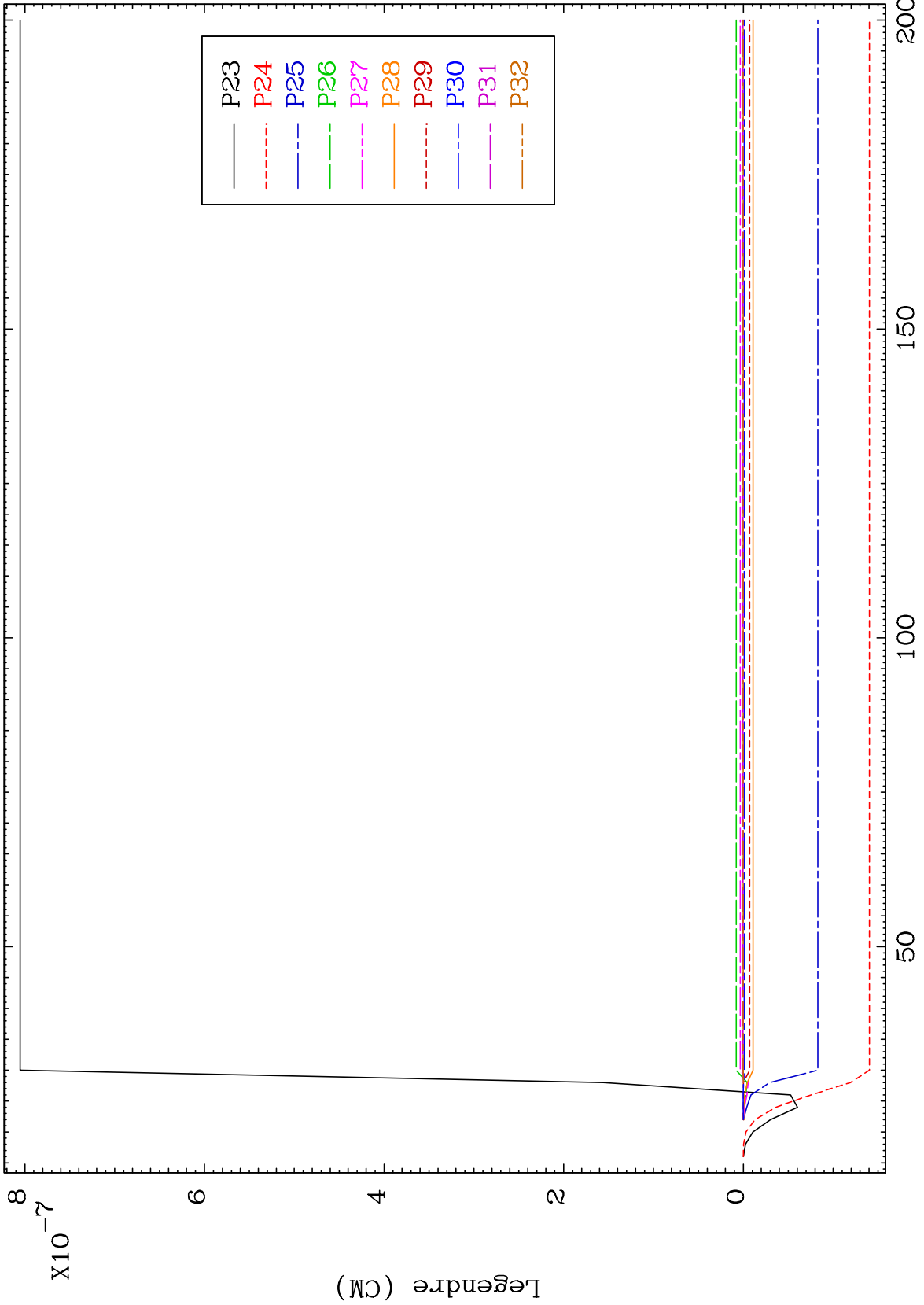
Incident Energy (MeV)

72-Hf-182

MAT 7249

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

72-Hf-182



74

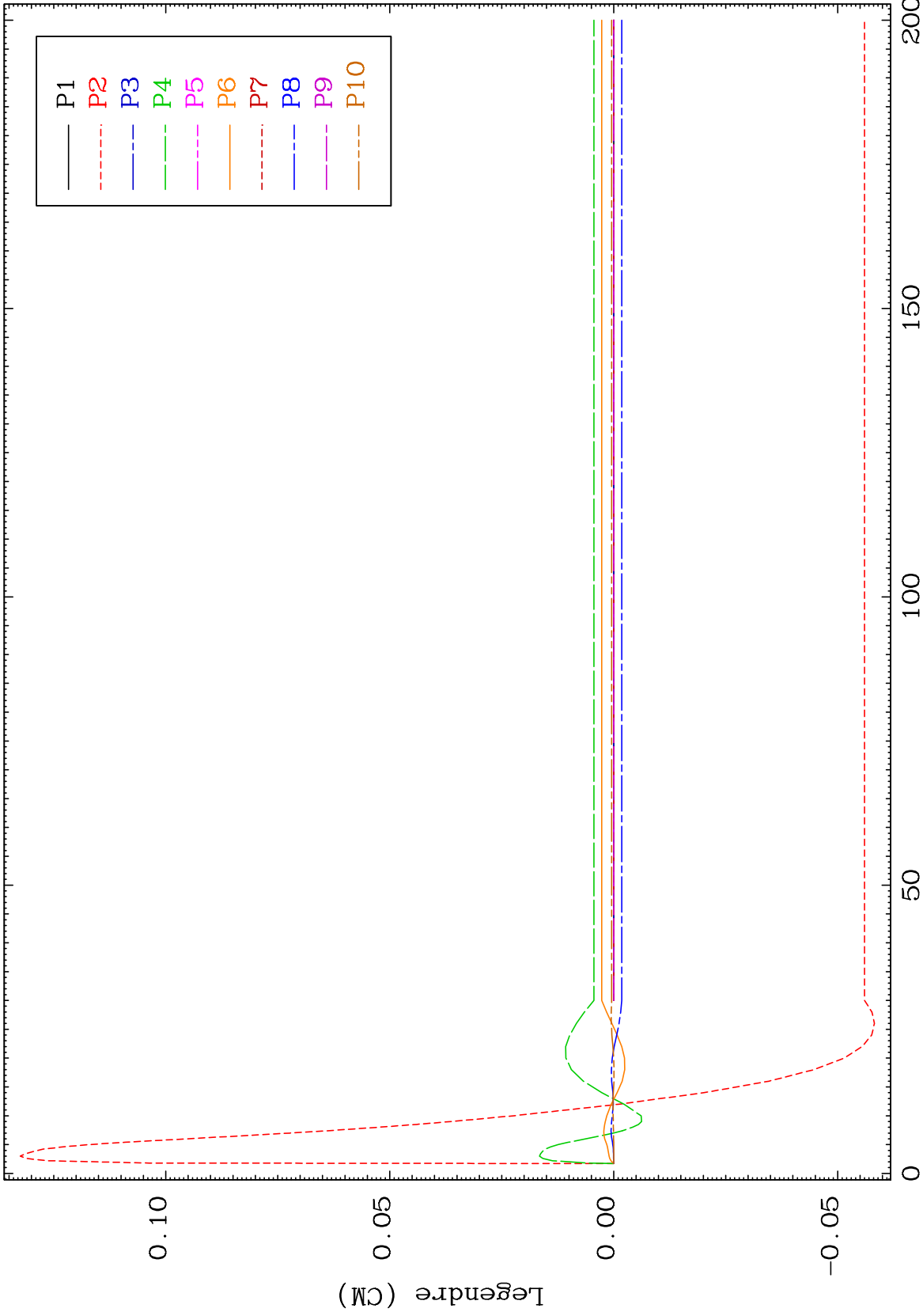
Incident Energy (MeV)

72-Hf-182

MAT 7249

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

72-Hf-182



75

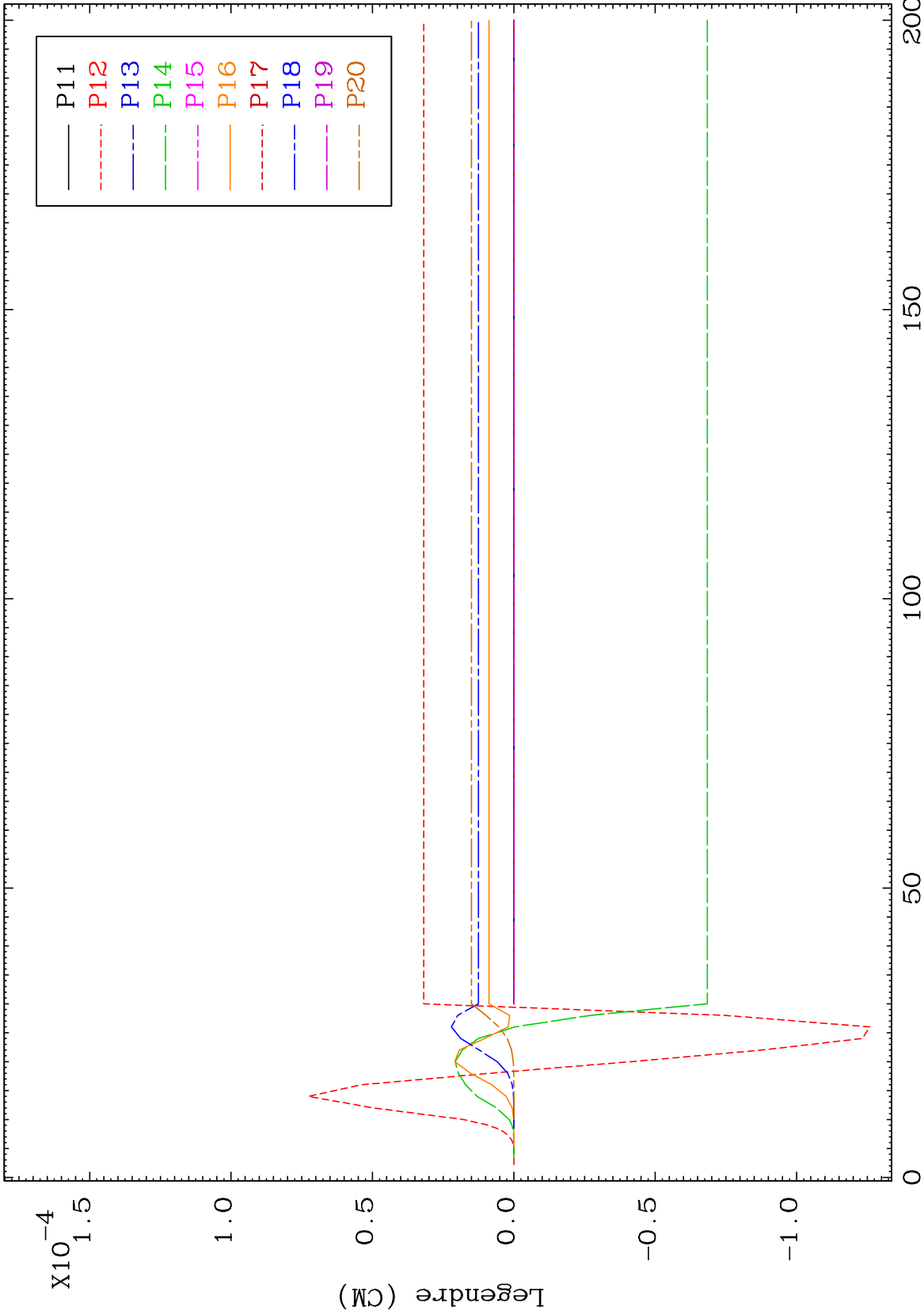
Incident Energy (MeV)

72-Hf-182

MAT 7249

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

72-Hf-182



76

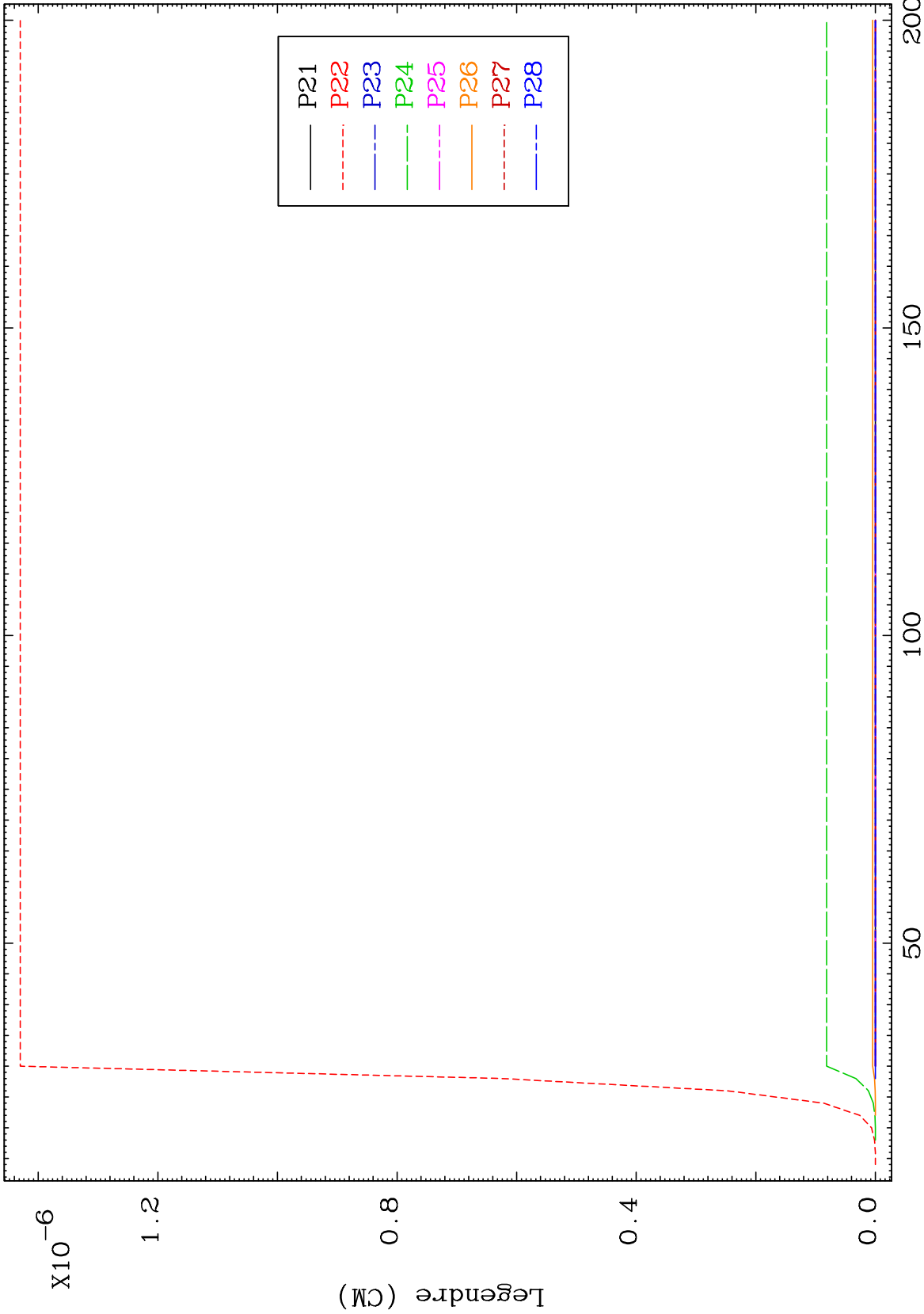
Incident Energy (MeV)

72-Hf-182

MAT 7249

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

72-Hf-182



77

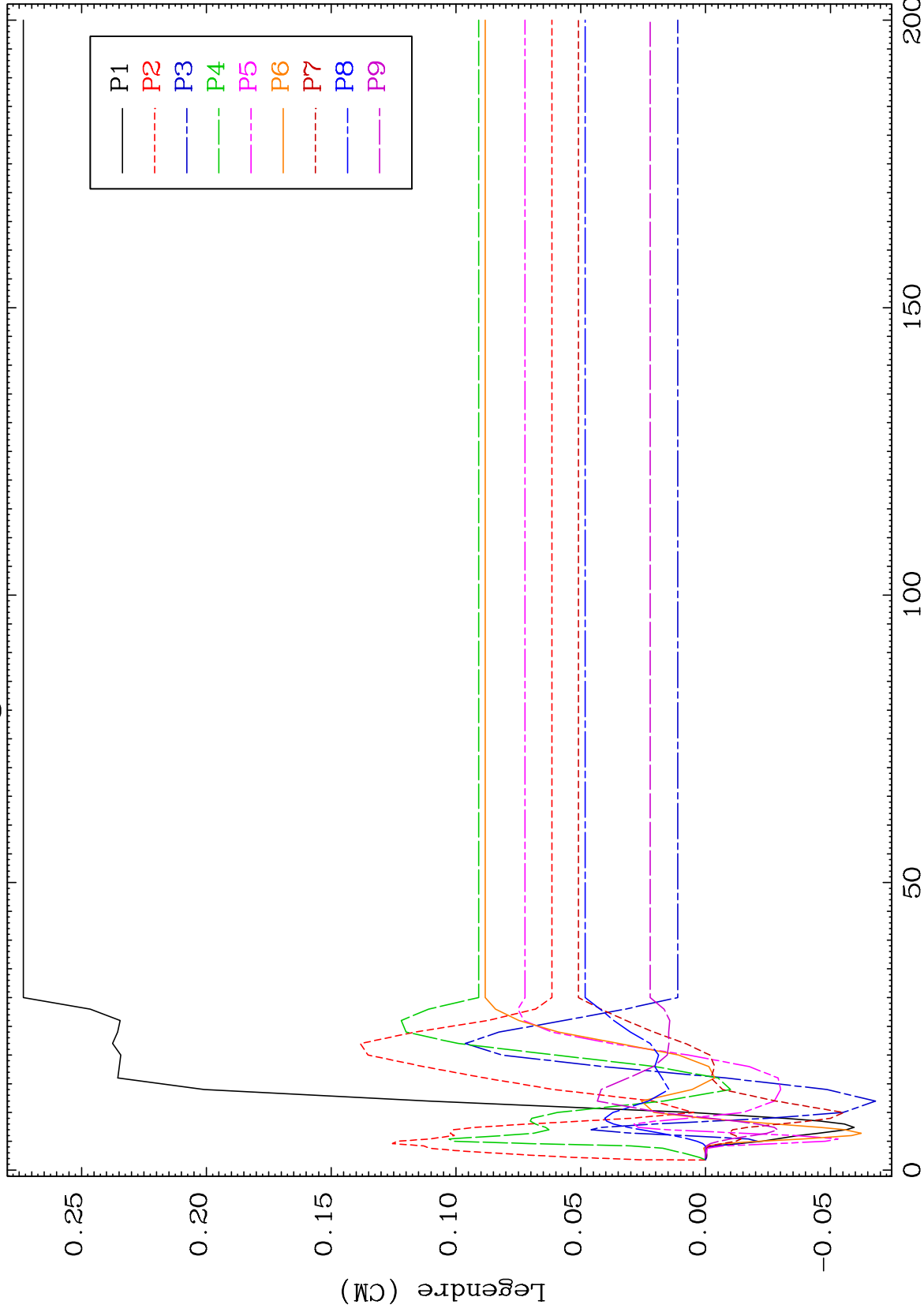
Incident Energy (MeV)

72-Hf-182

MAT 7249

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

72-Hf-182



78

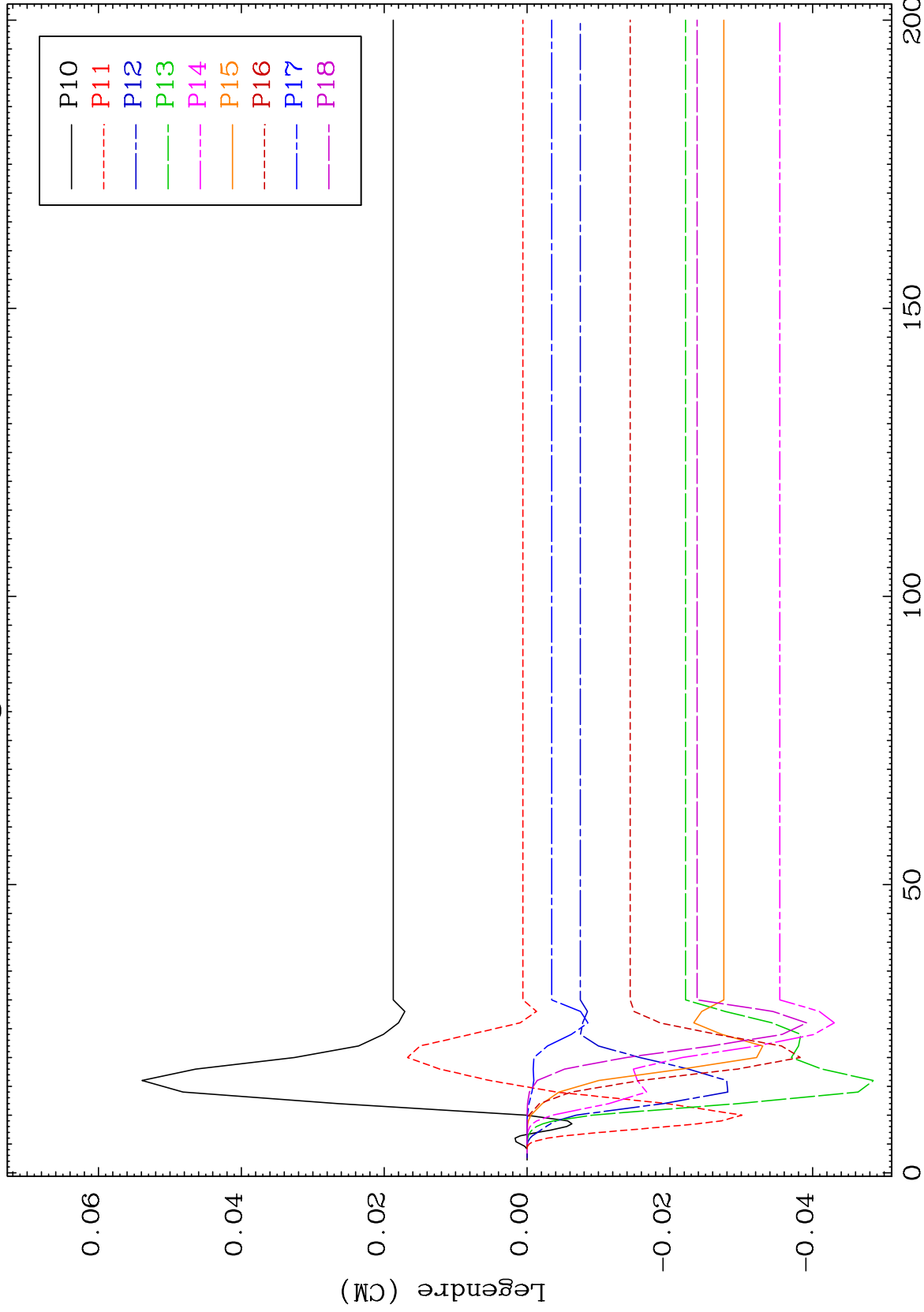
Incident Energy (MeV)

72-Hf-182

MAT 7249

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

72-Hf-182



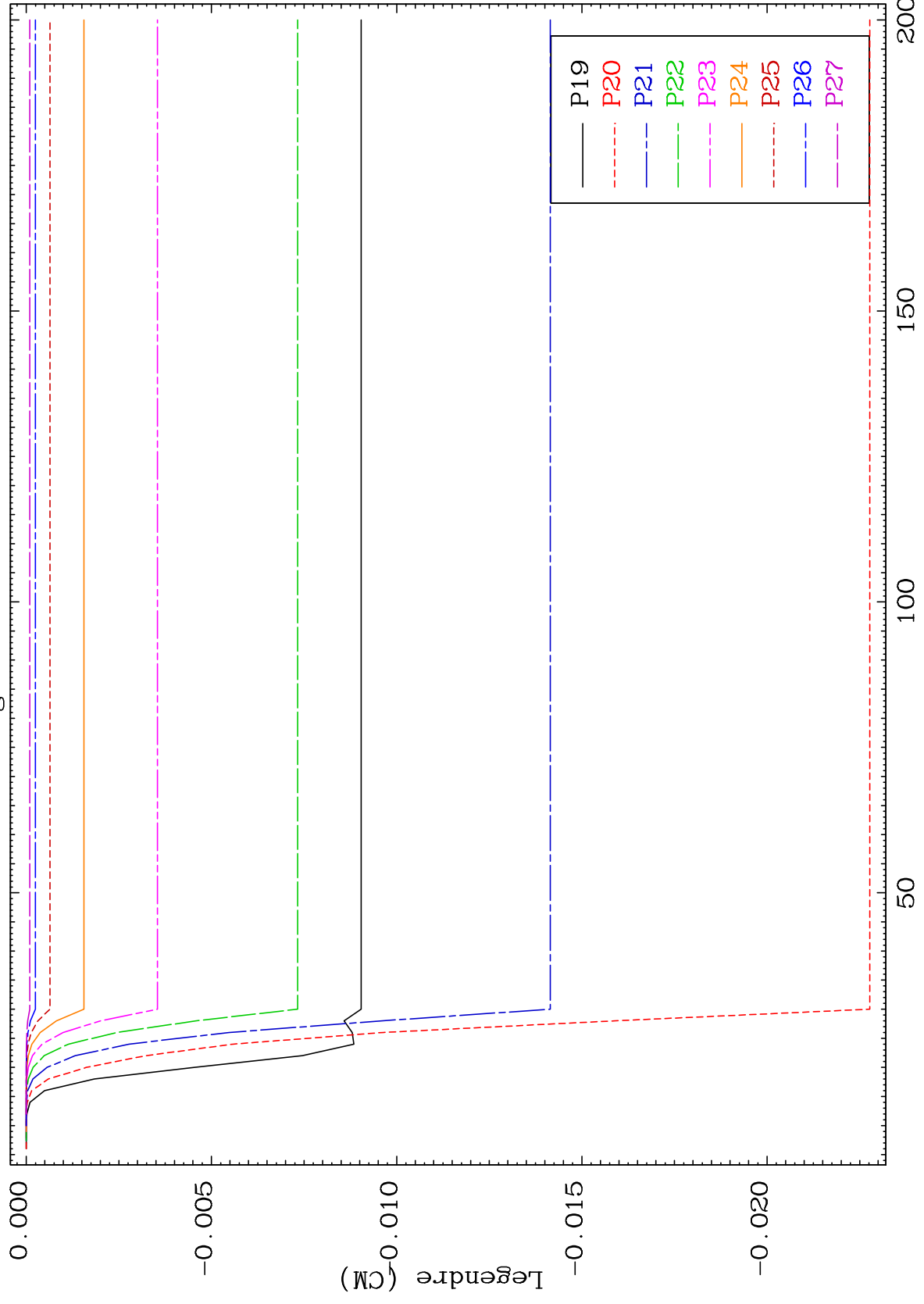
79

Incident Energy (MeV)

72-Hf-182



MAT 7249 MT= 67 (n,n') Level Legendre Coefficients 72-Hf-182

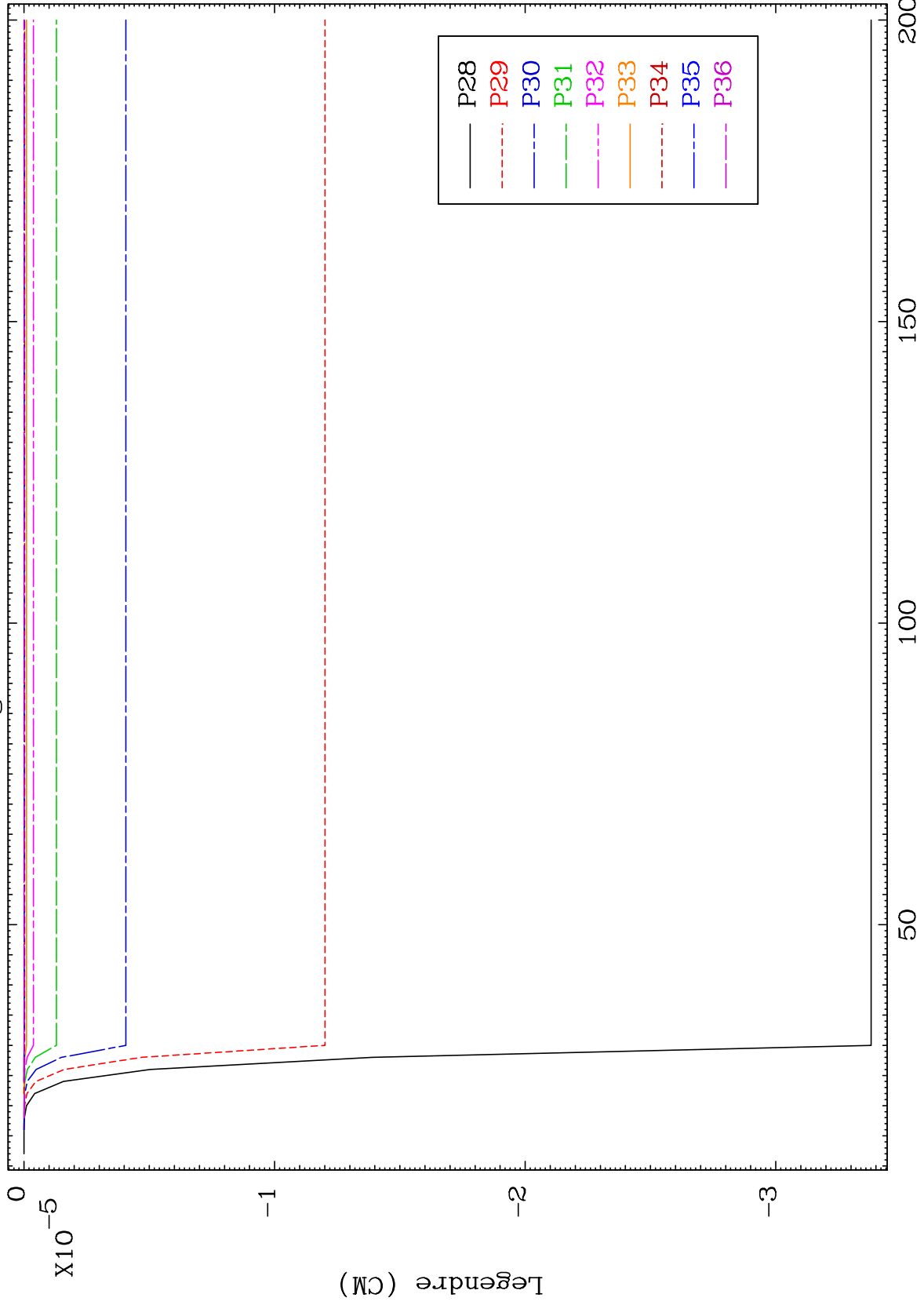


80 Incident Energy (MeV) 72-Hf-182

MAT 7249

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

72-Hf-182



81

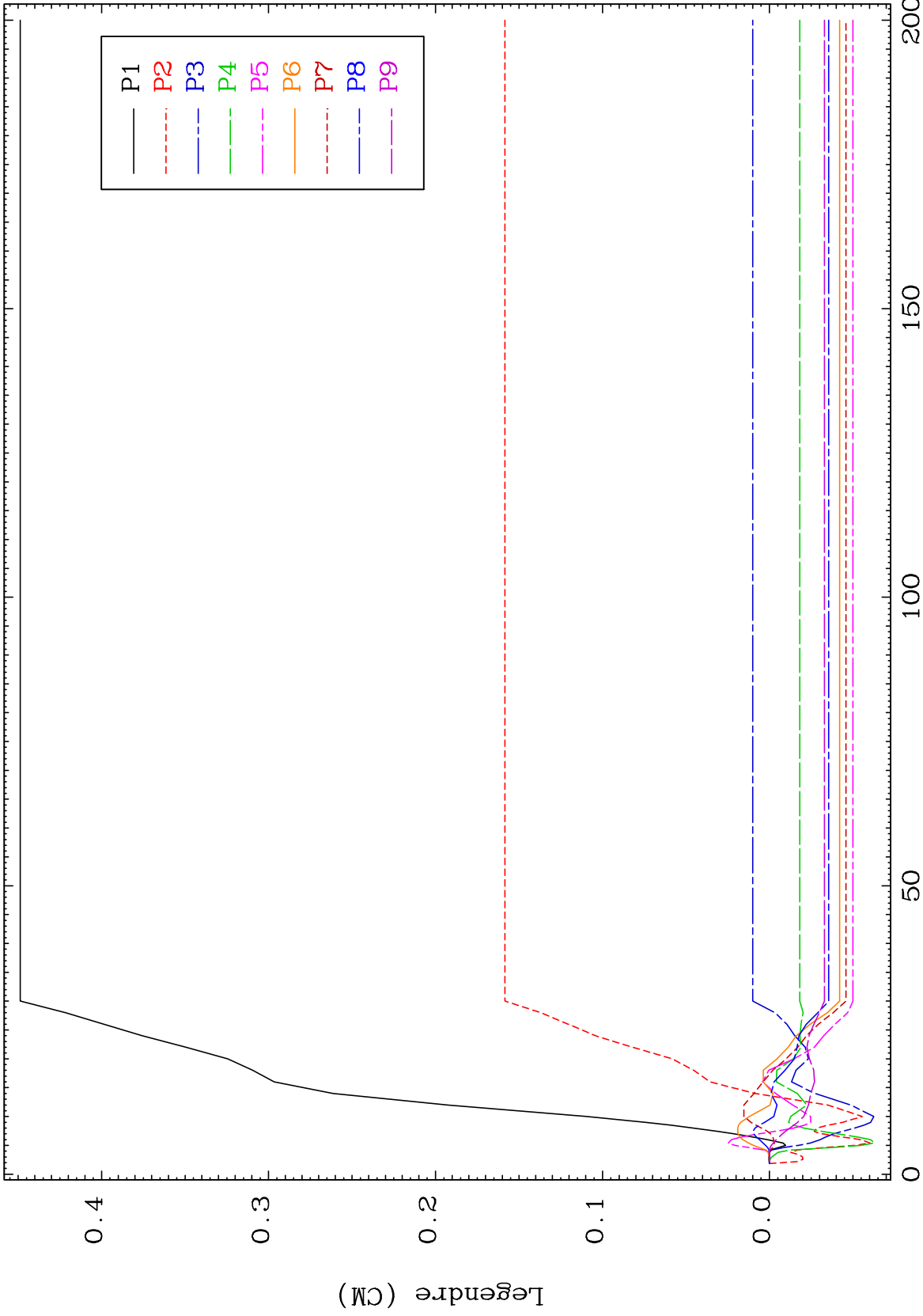
Incident Energy (MeV)

72-Hf-182

MAT 7249

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

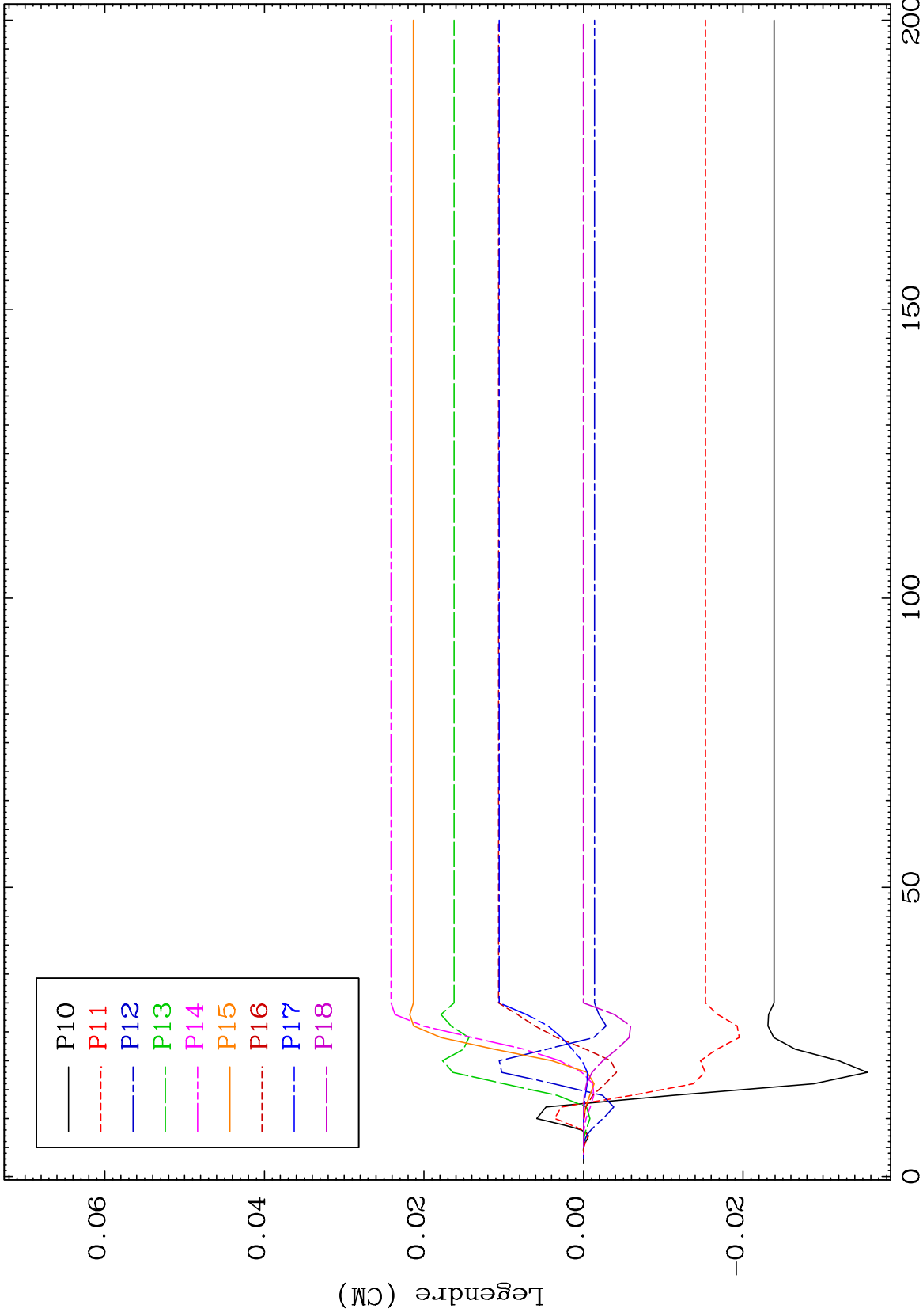
72-Hf-182

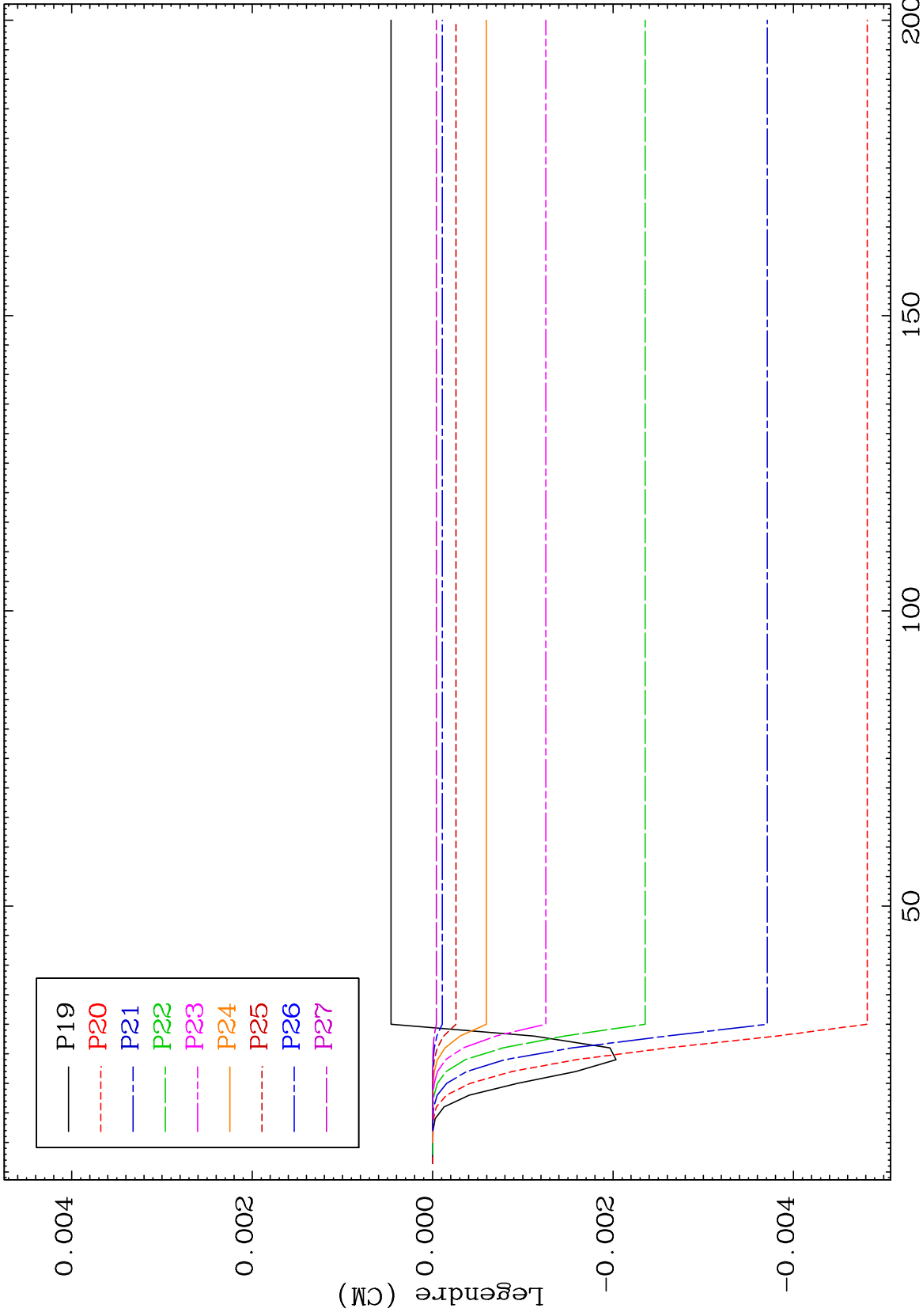


82

Incident Energy (MeV)

72-Hf-182

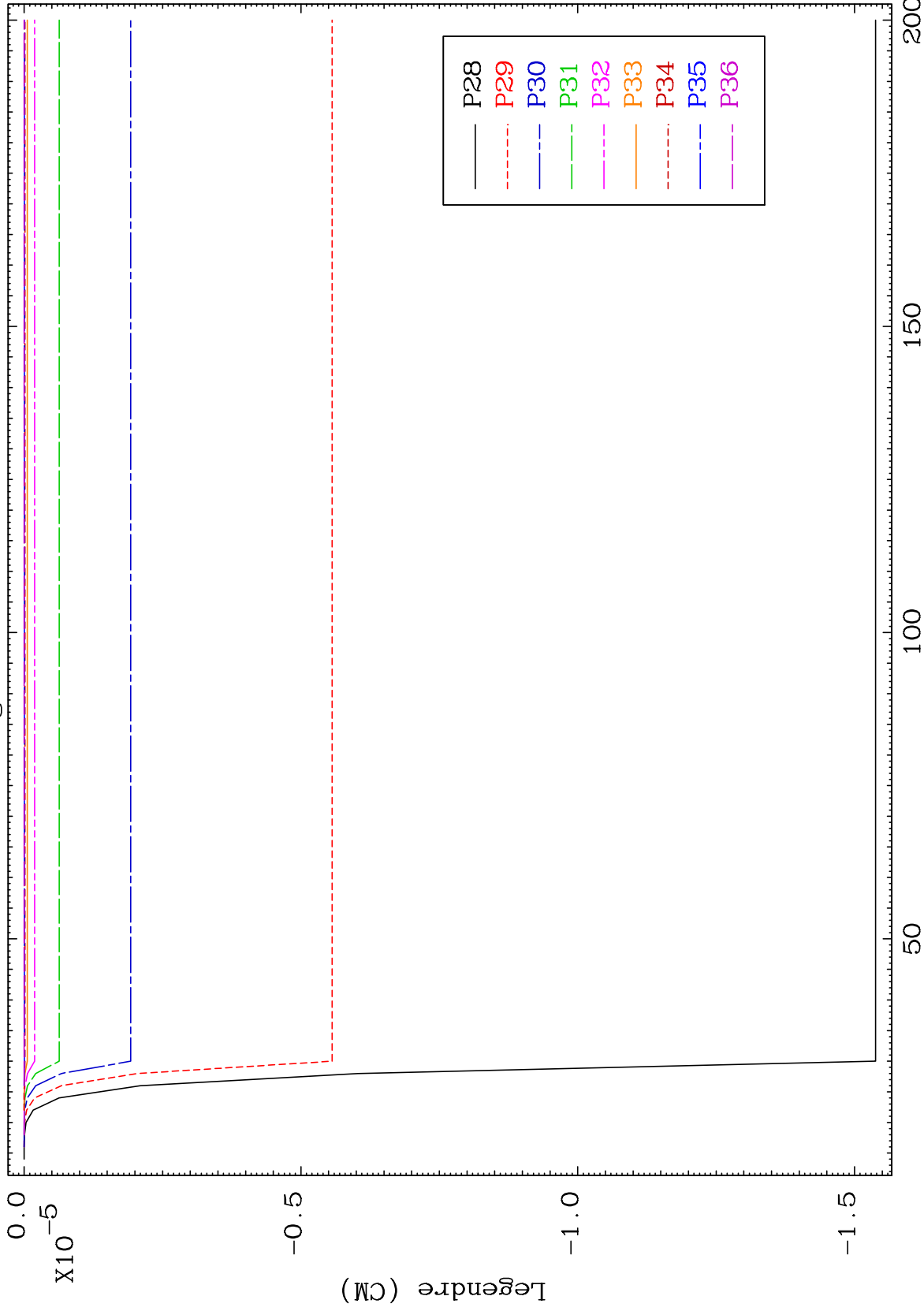




MAT 7249

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

72-Hf-182



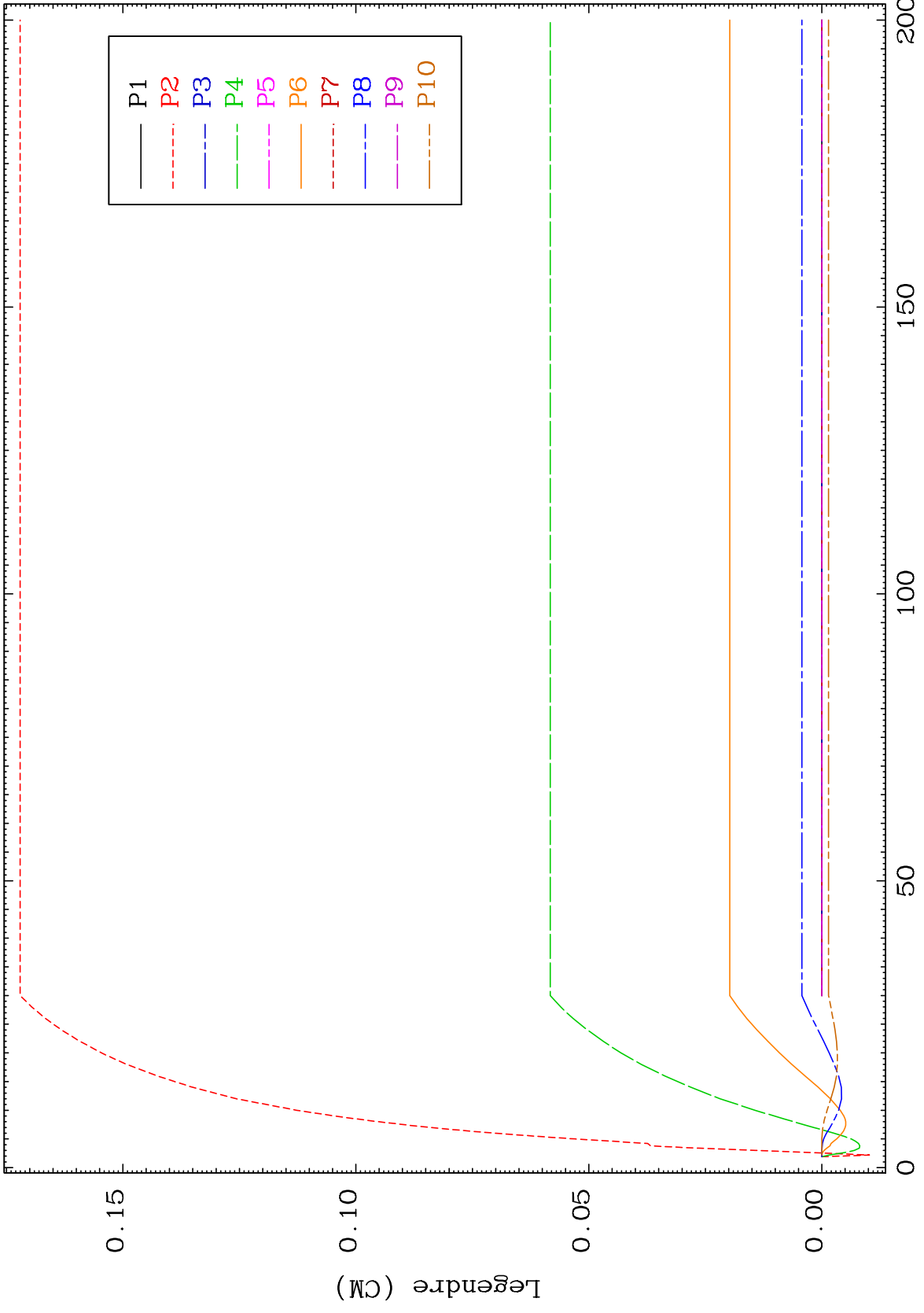
85

72-Hf-182

MAT 7249

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

72-Hf-182



86

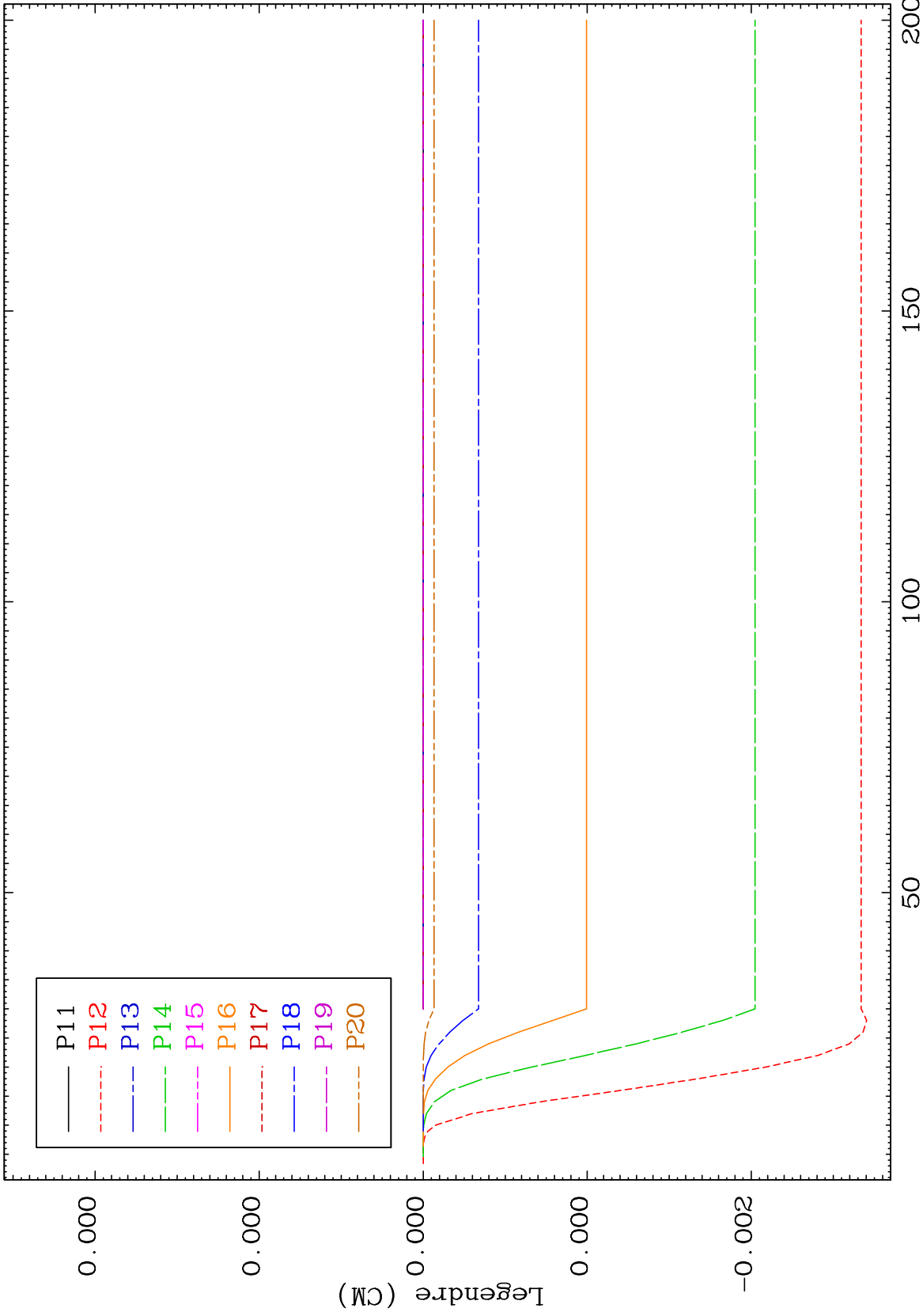
Incident Energy (MeV)

72-Hf-182

MAT 7249

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

72-Hf-182



87

Incident Energy (MeV)

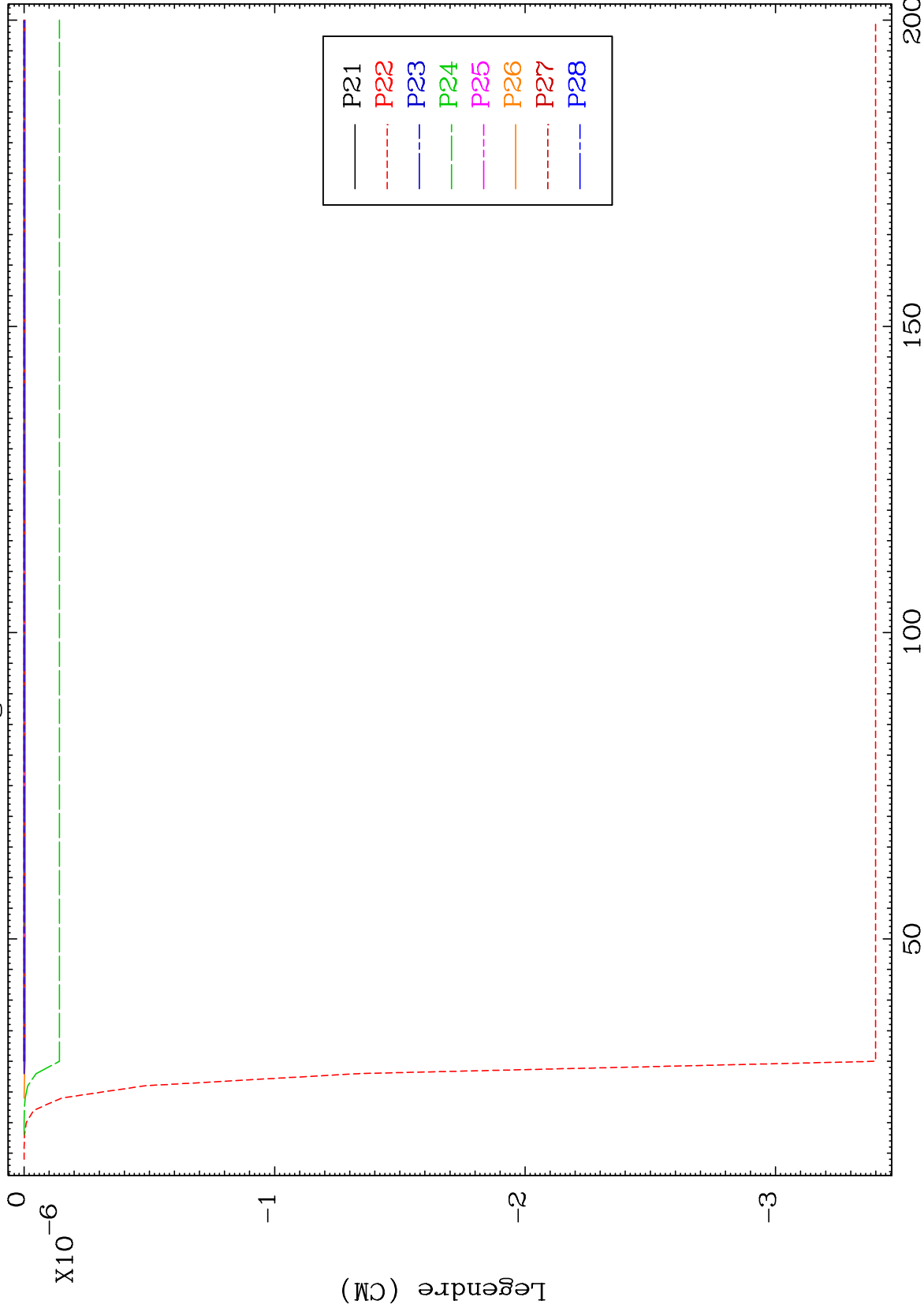
72-Hf-182



MAT 7249

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

72-Hf-182



88

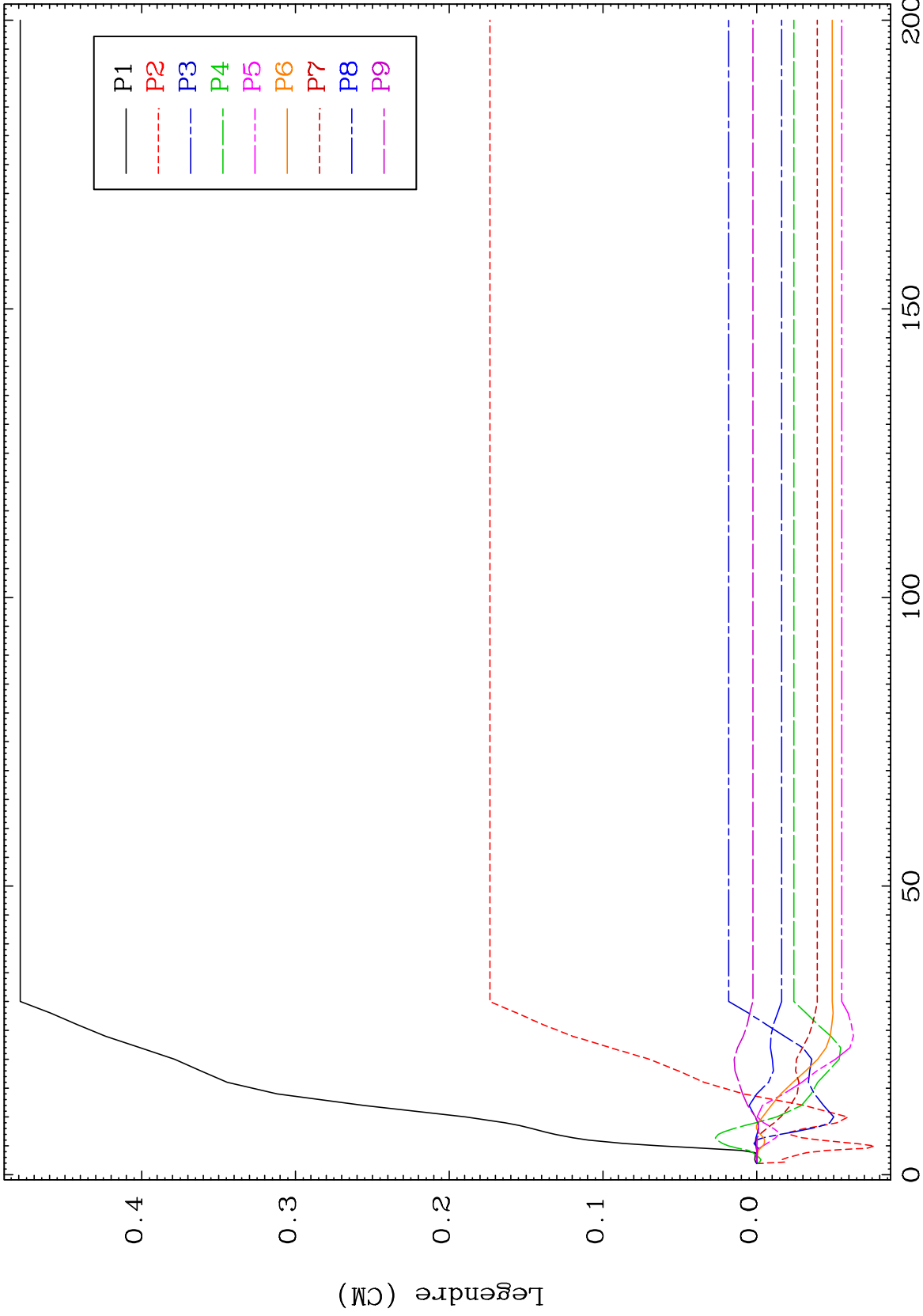
Incident Energy (MeV)

72-Hf-182

MAT 7249

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

72-Hf-182



89

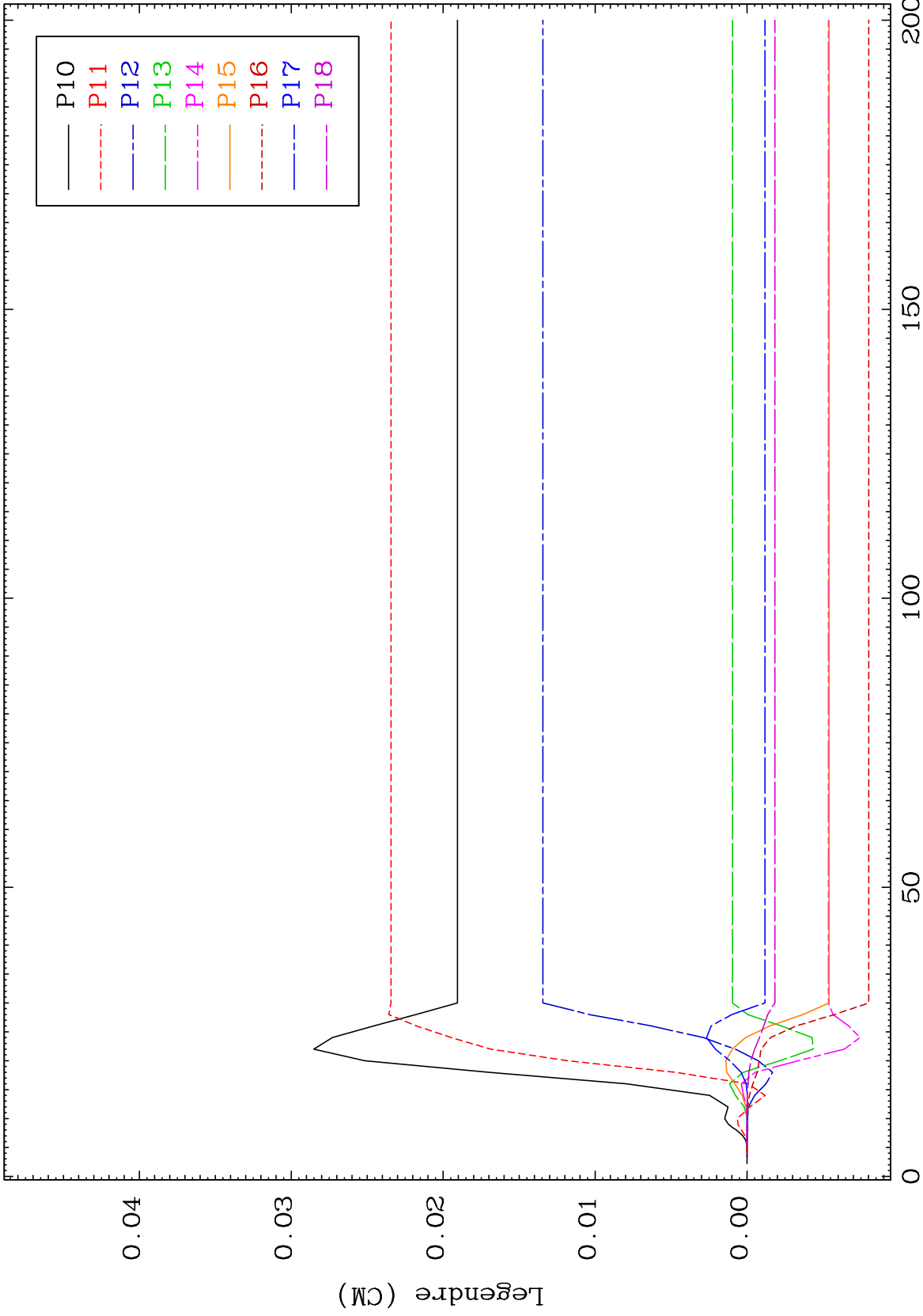
Incident Energy (MeV)

72-Hf-182

MAT 7249

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

72-Hf-182



90

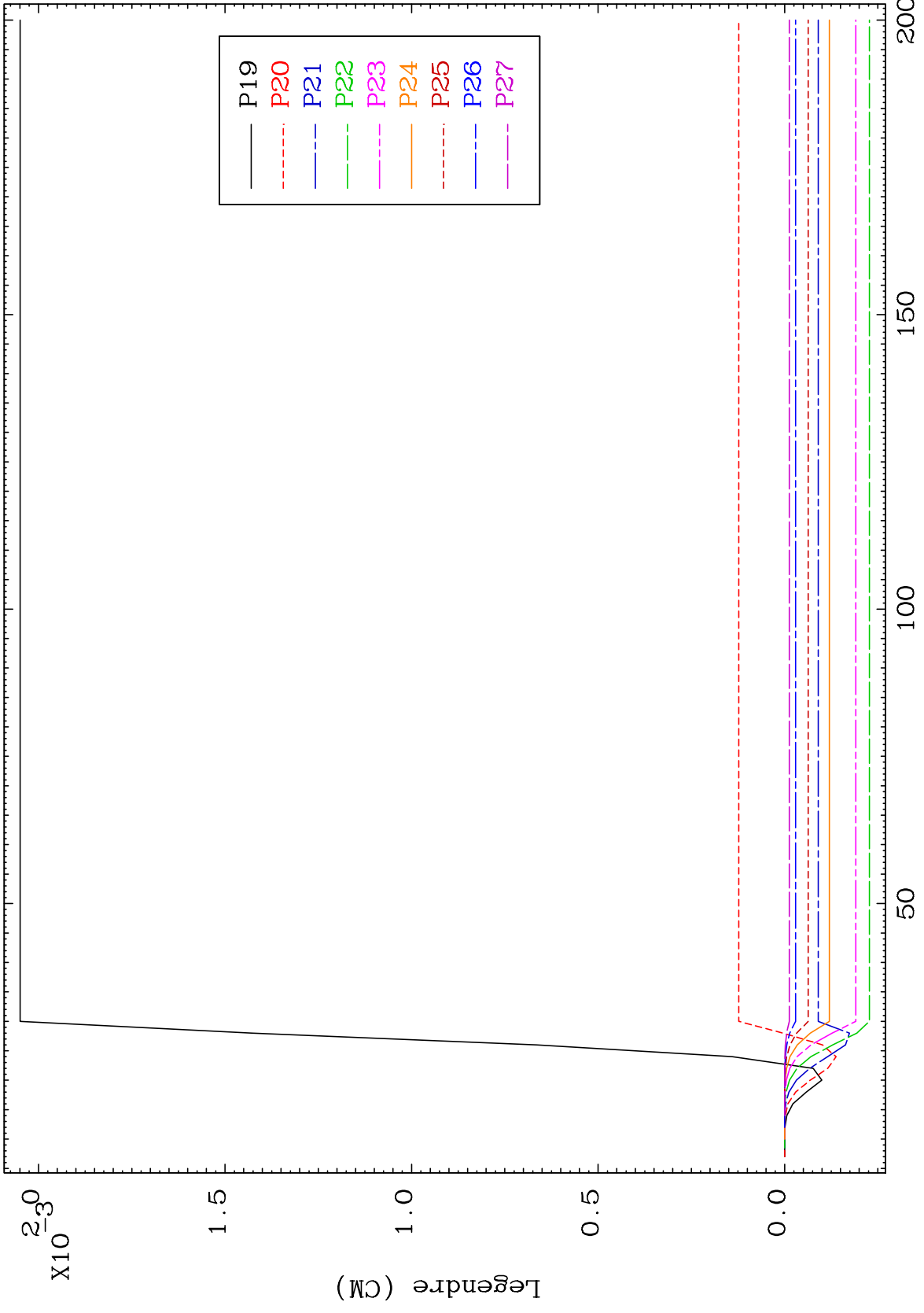
Incident Energy (MeV)

72-Hf-182

MAT 7249

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

72-Hf-182



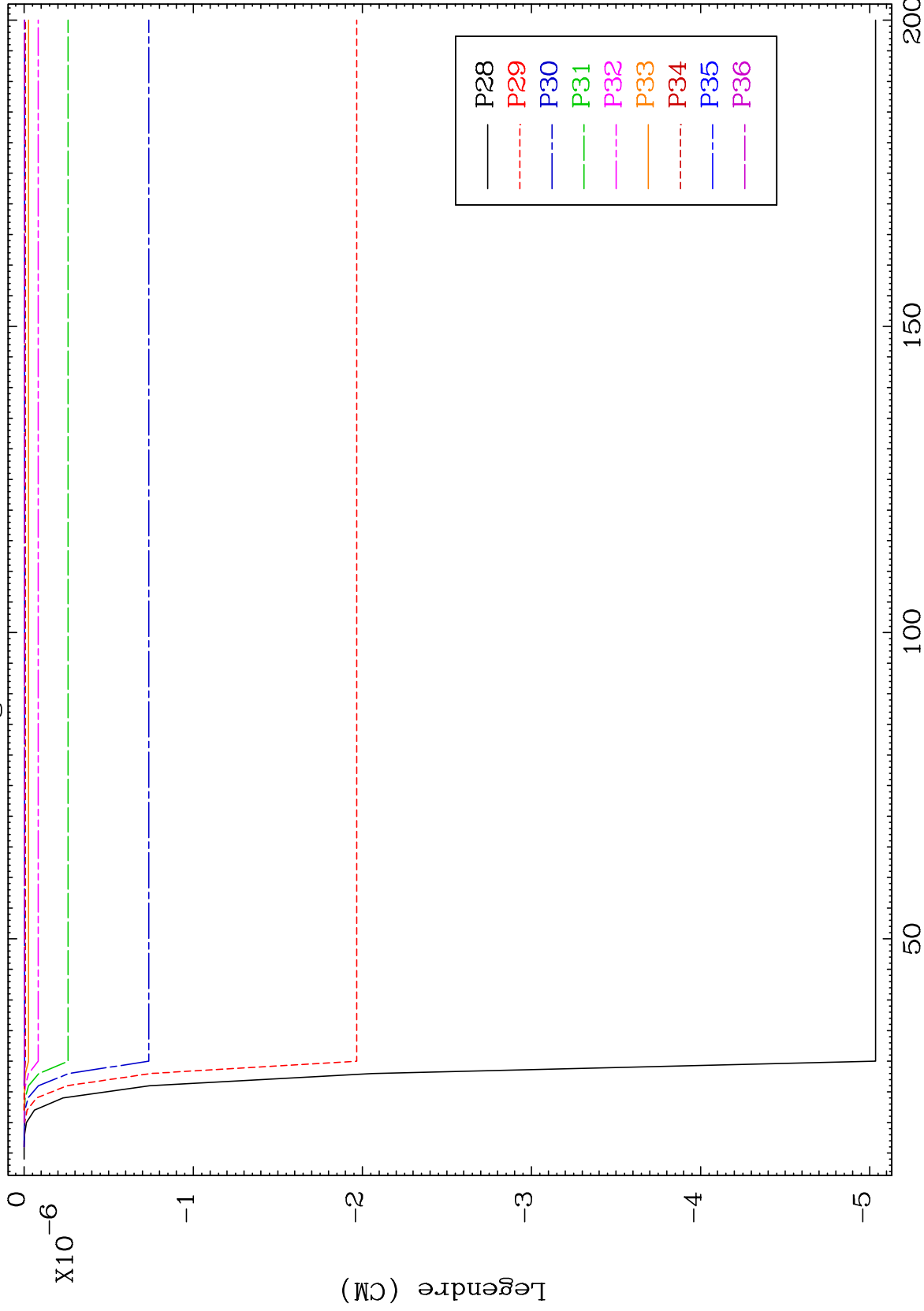
91

72-Hf-182

MAT 7249

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

72-Hf-182



92

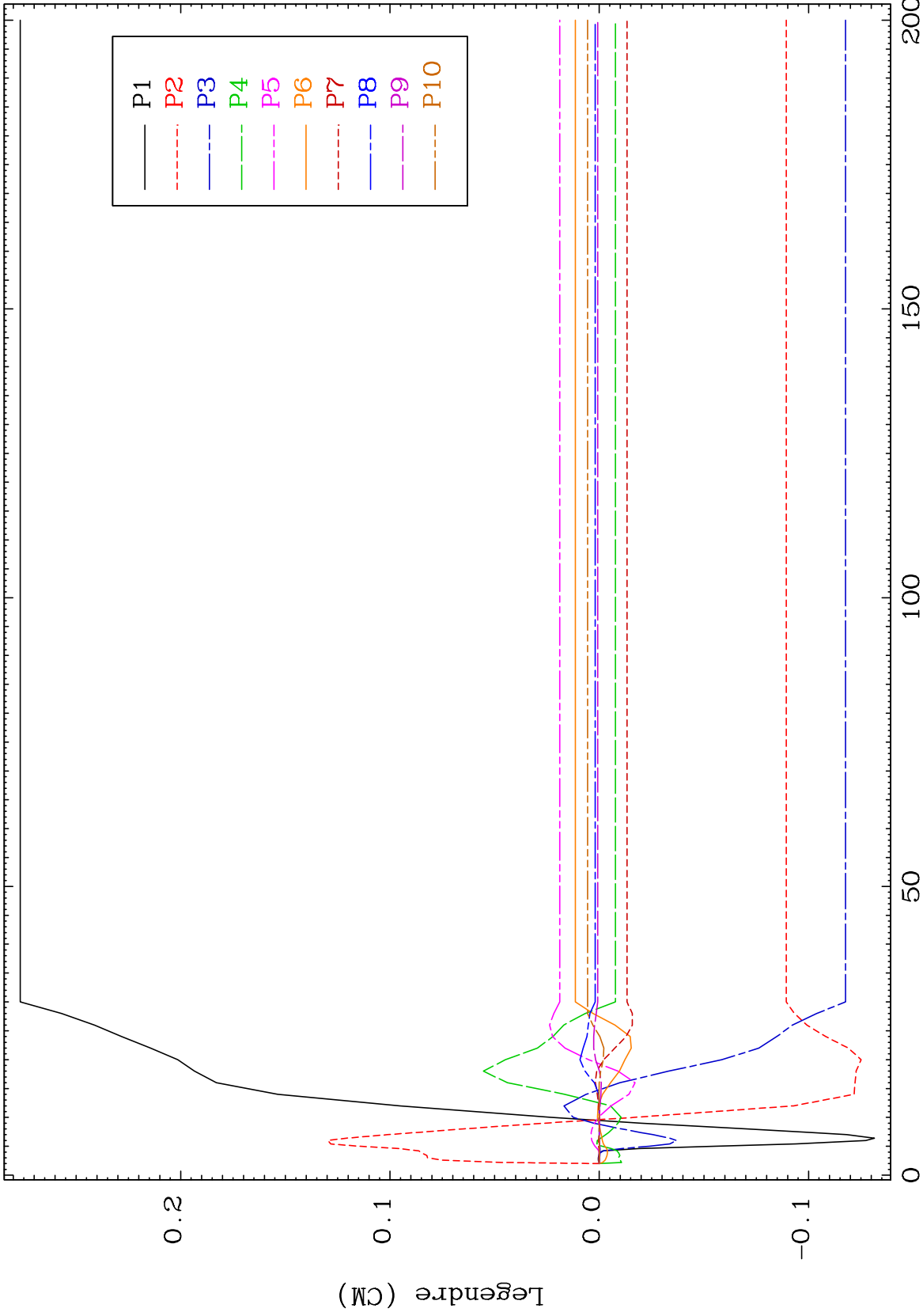
Incident Energy (MeV)

72-Hf-182

MAT 7249

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

72-Hf-182



93

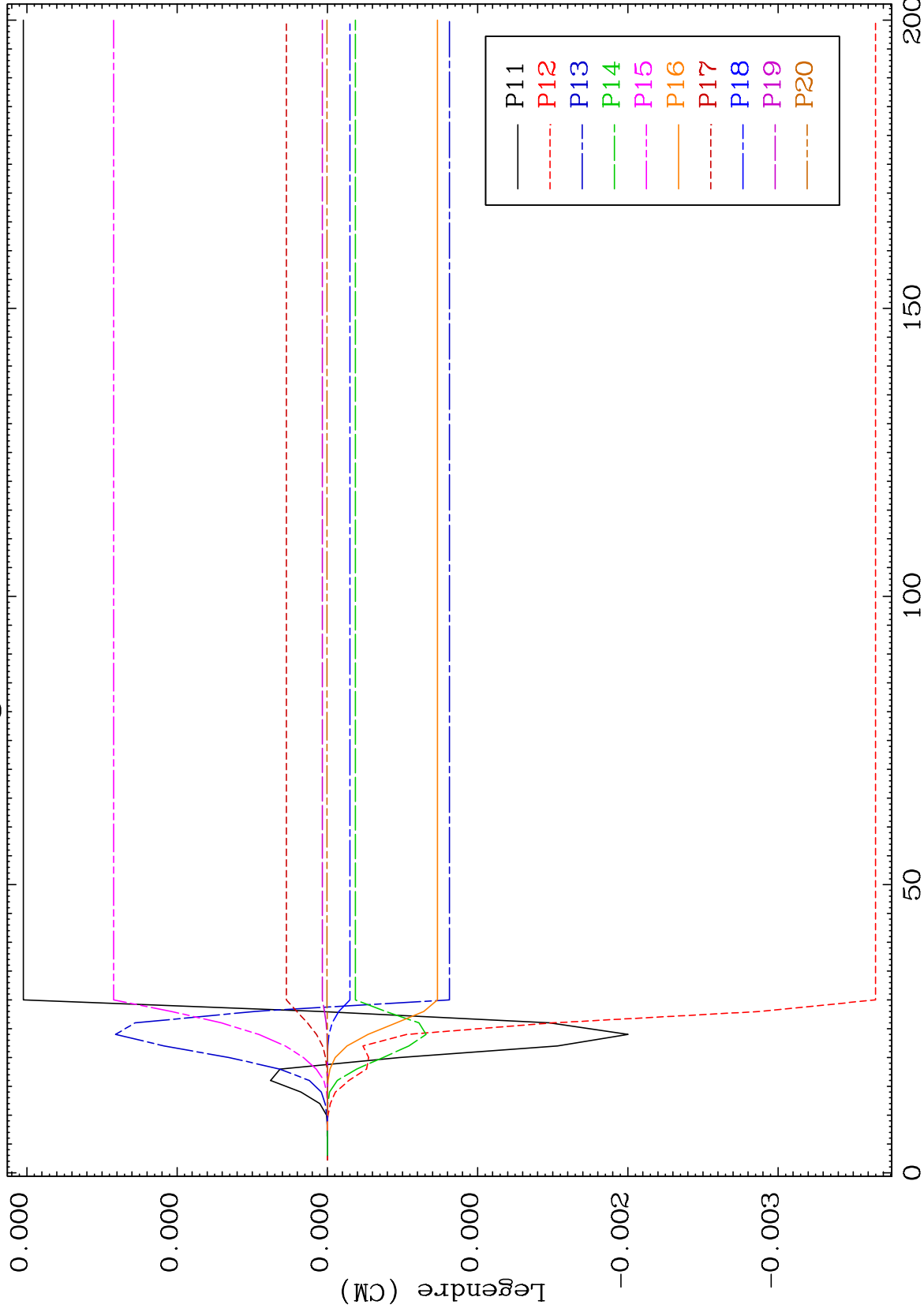
Incident Energy (MeV)

72-Hf-182

MAT 7249

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

72-Hf-182



94

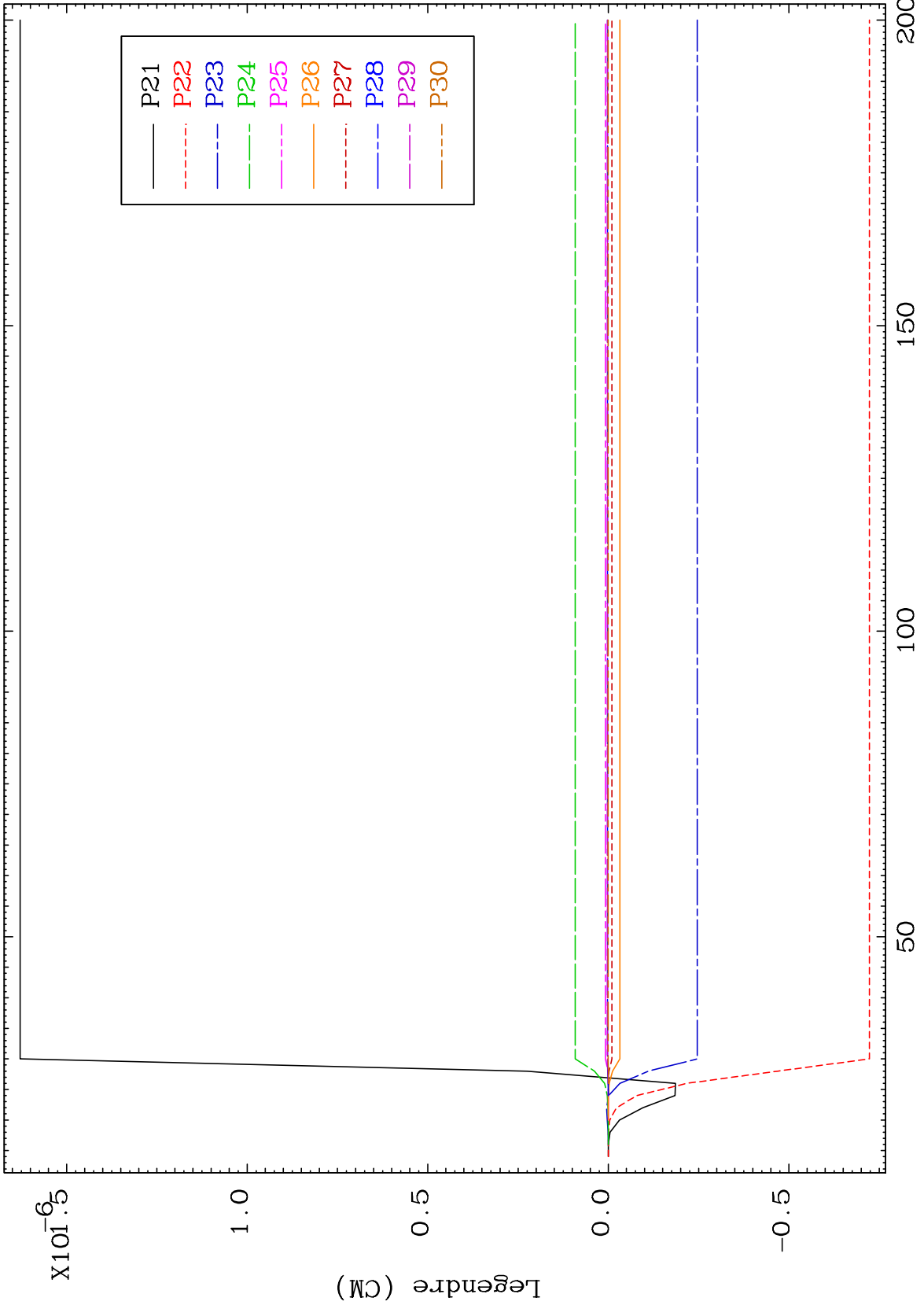
Incident Energy (MeV)

72-Hf-182

MAT 7249

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

72-Hf-182



95

Incident Energy (MeV)

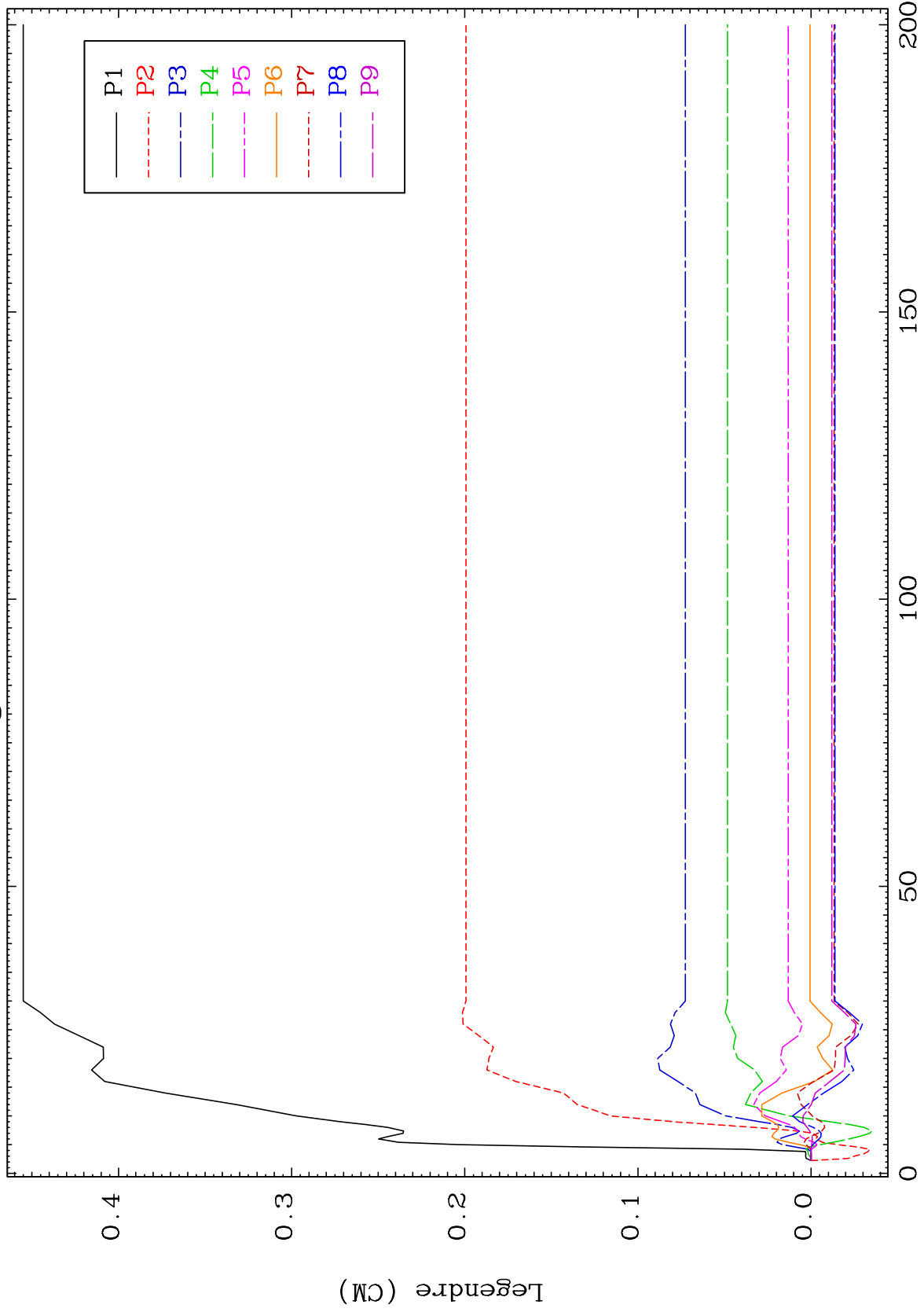
72-Hf-182



MAT 7249

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

72-Hf-182



96

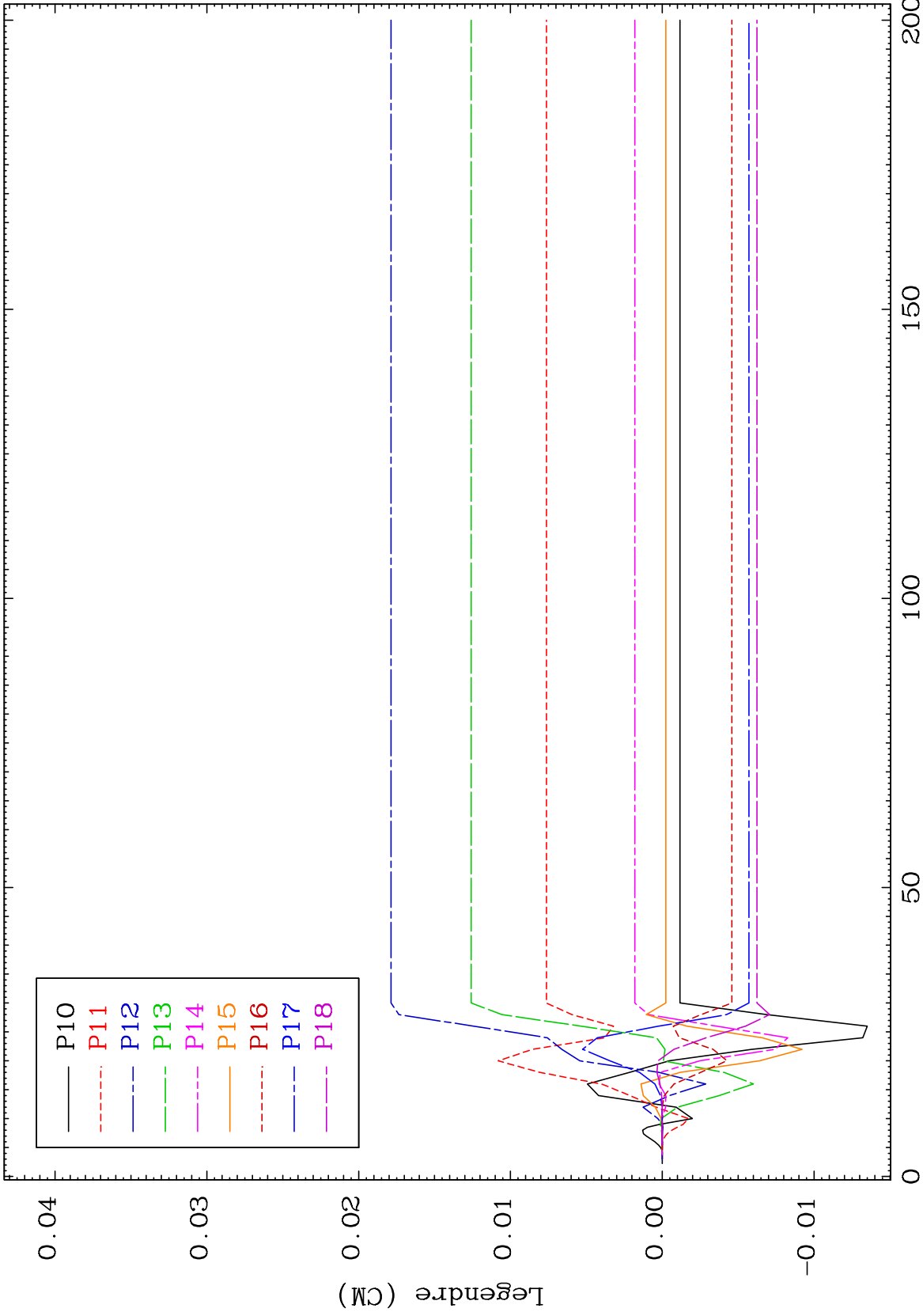
Incident Energy (MeV)

72-Hf-182

MAT 7249

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

72-Hf-182



97

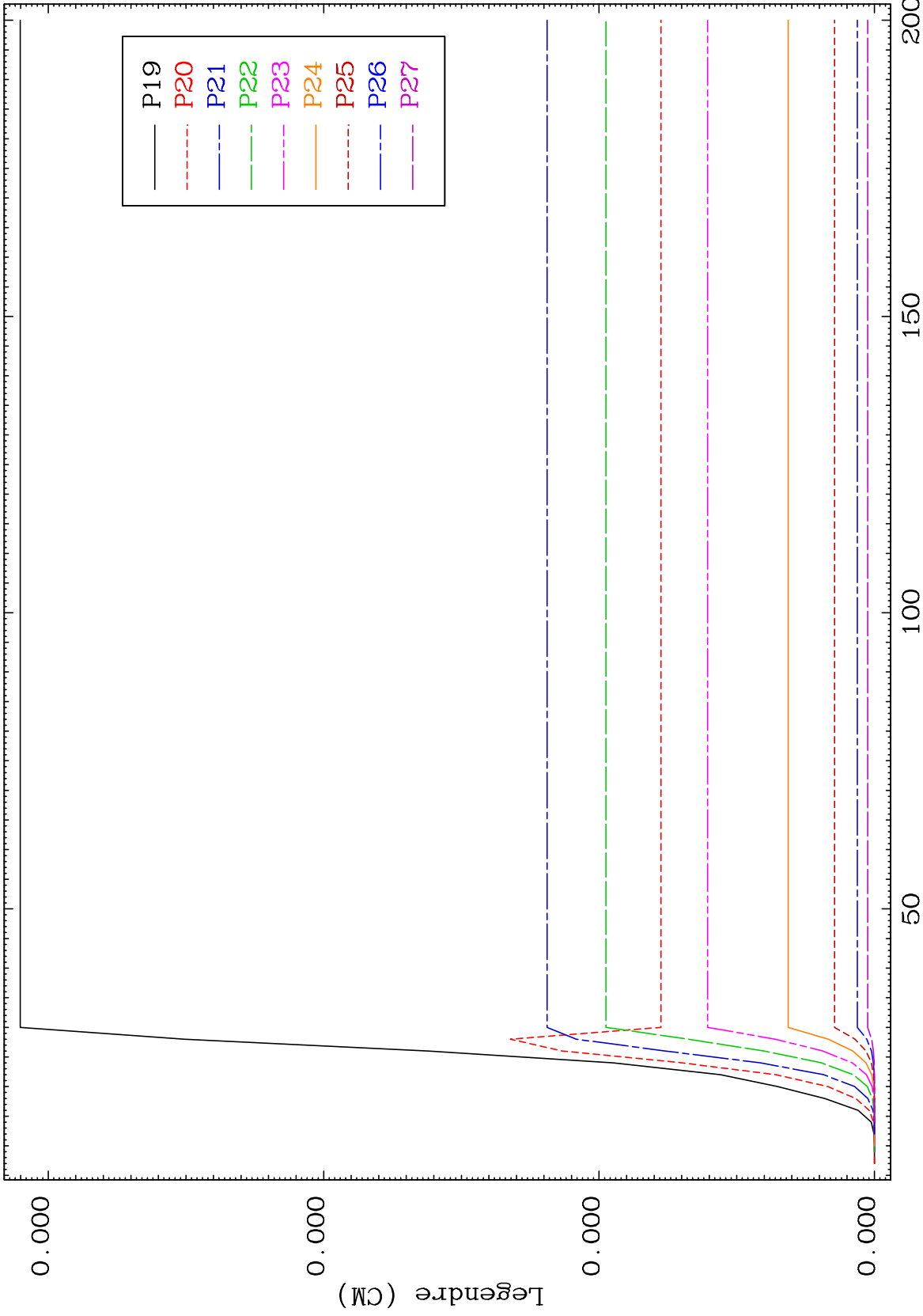
Incident Energy (MeV)

72-Hf-182

MAT 7249

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

72-Hf-182



98

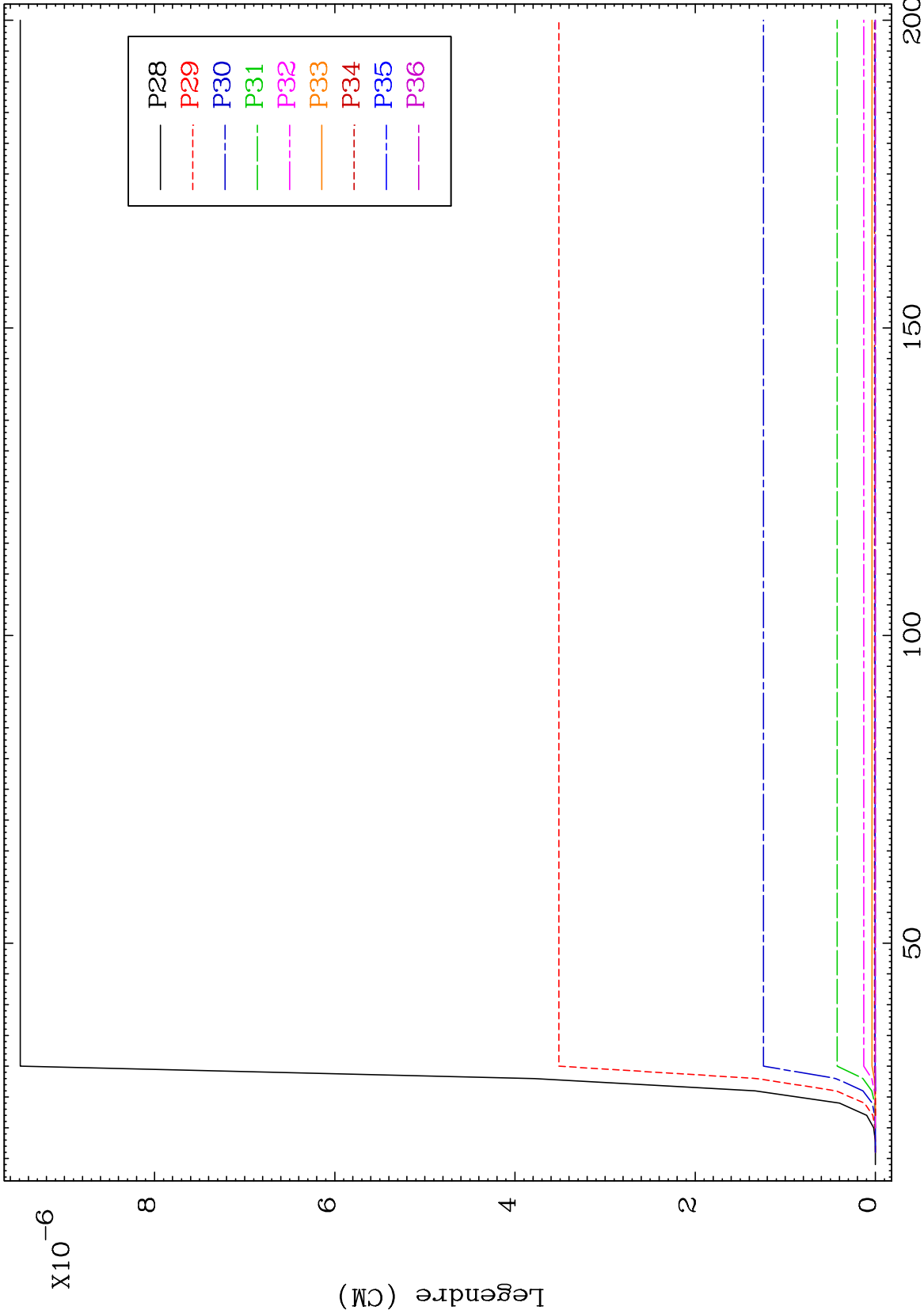
Incident Energy (MeV)

72-Hf-182

MAT 7249

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

72-Hf-182



99

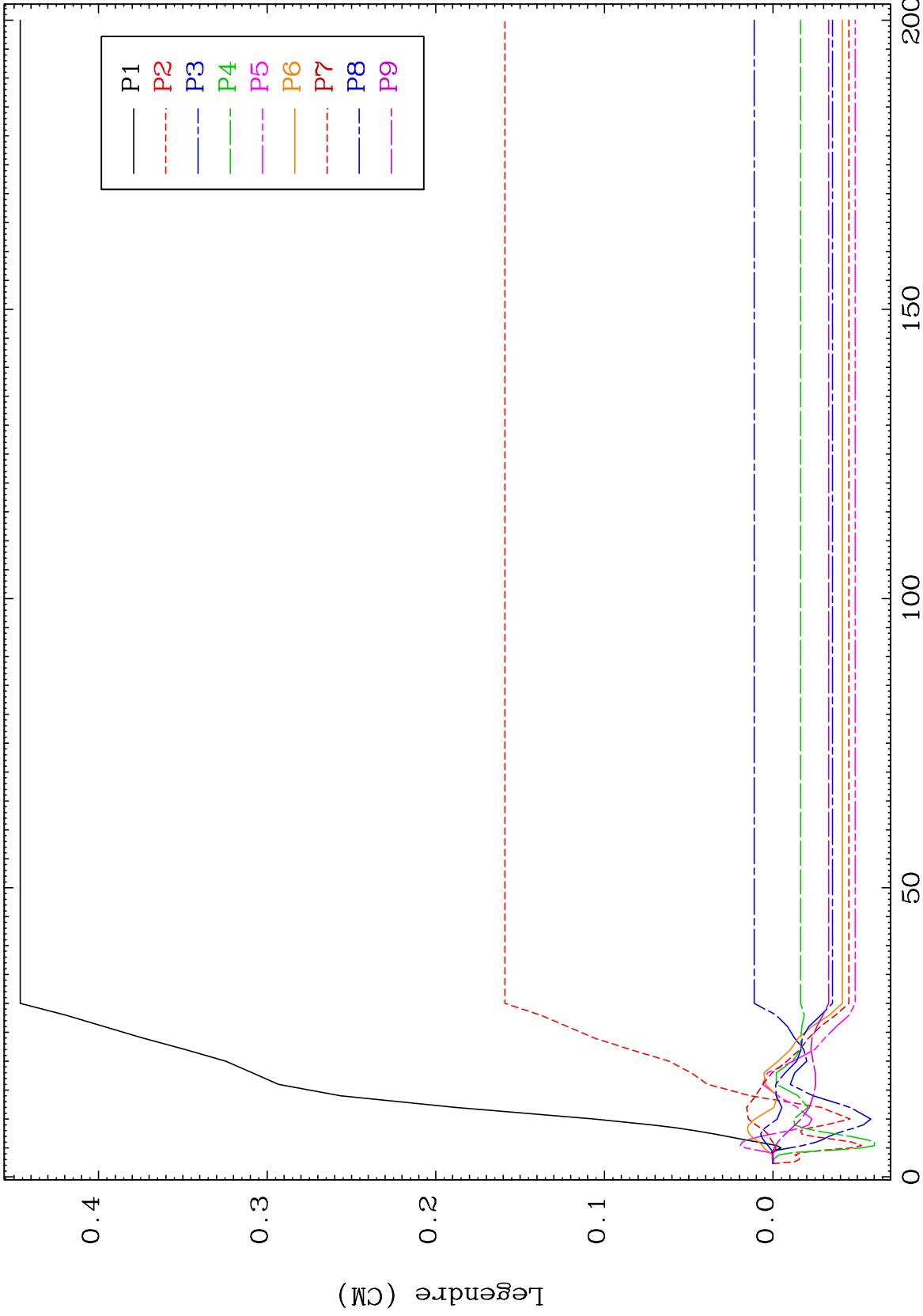
Incident Energy (MeV)

72-Hf-182

MAT 7249

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

72-Hf-182



72-Hf-182

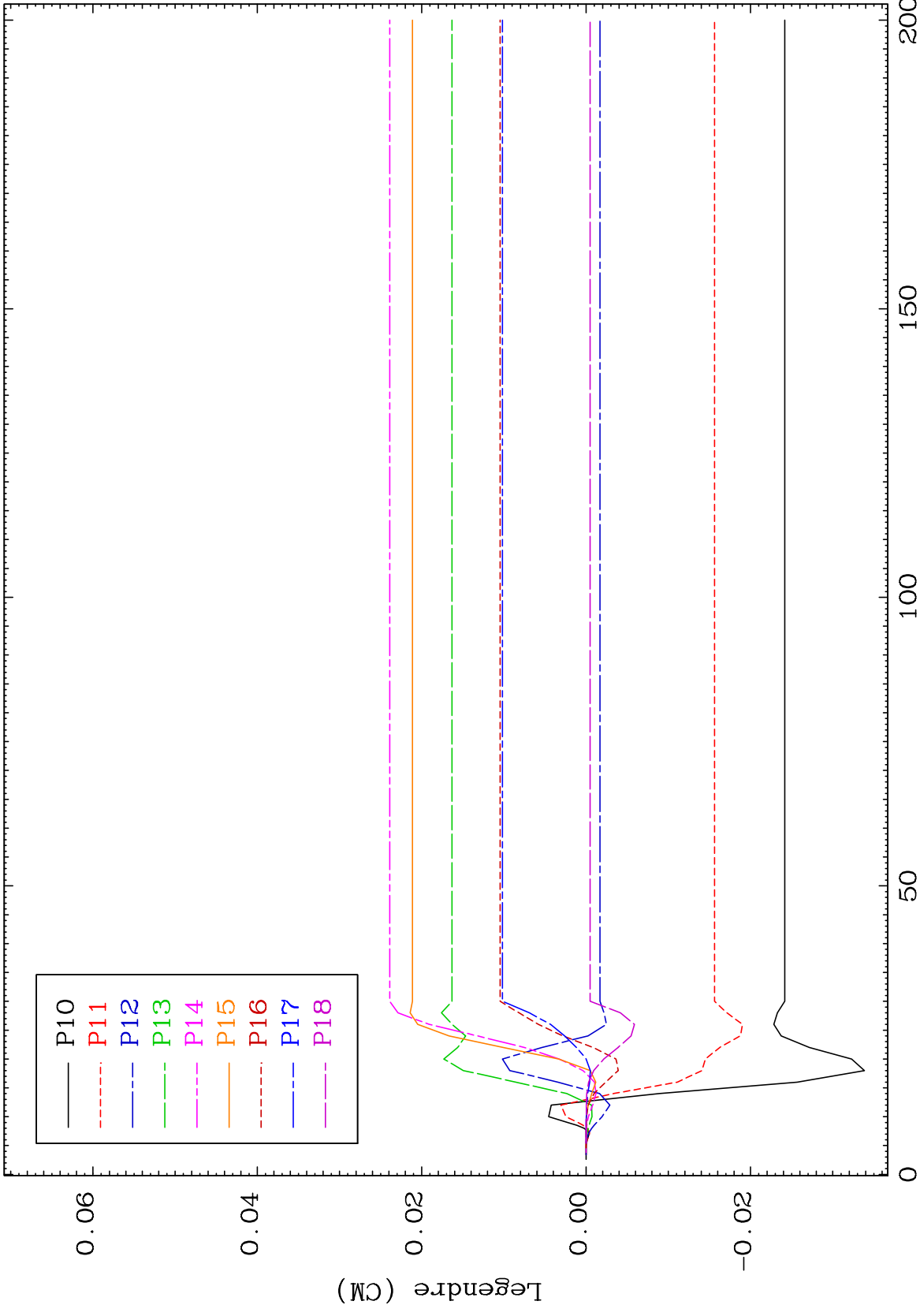
Incident Energy (MeV)

100

MAT 7249

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

72-Hf-182



101

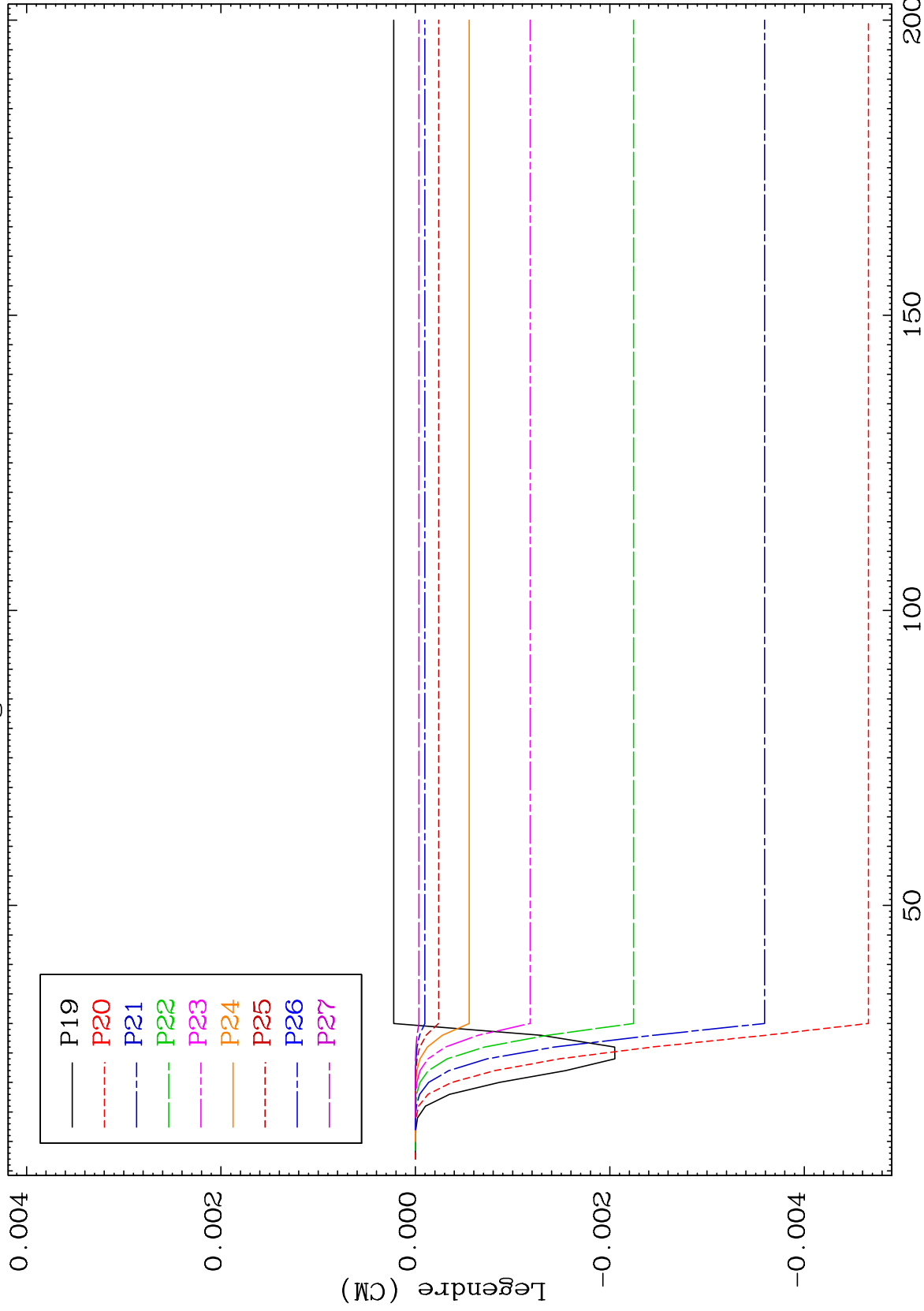
Incident Energy (MeV)

72-Hf-182

MAT 7249

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

72-Hf-182



102

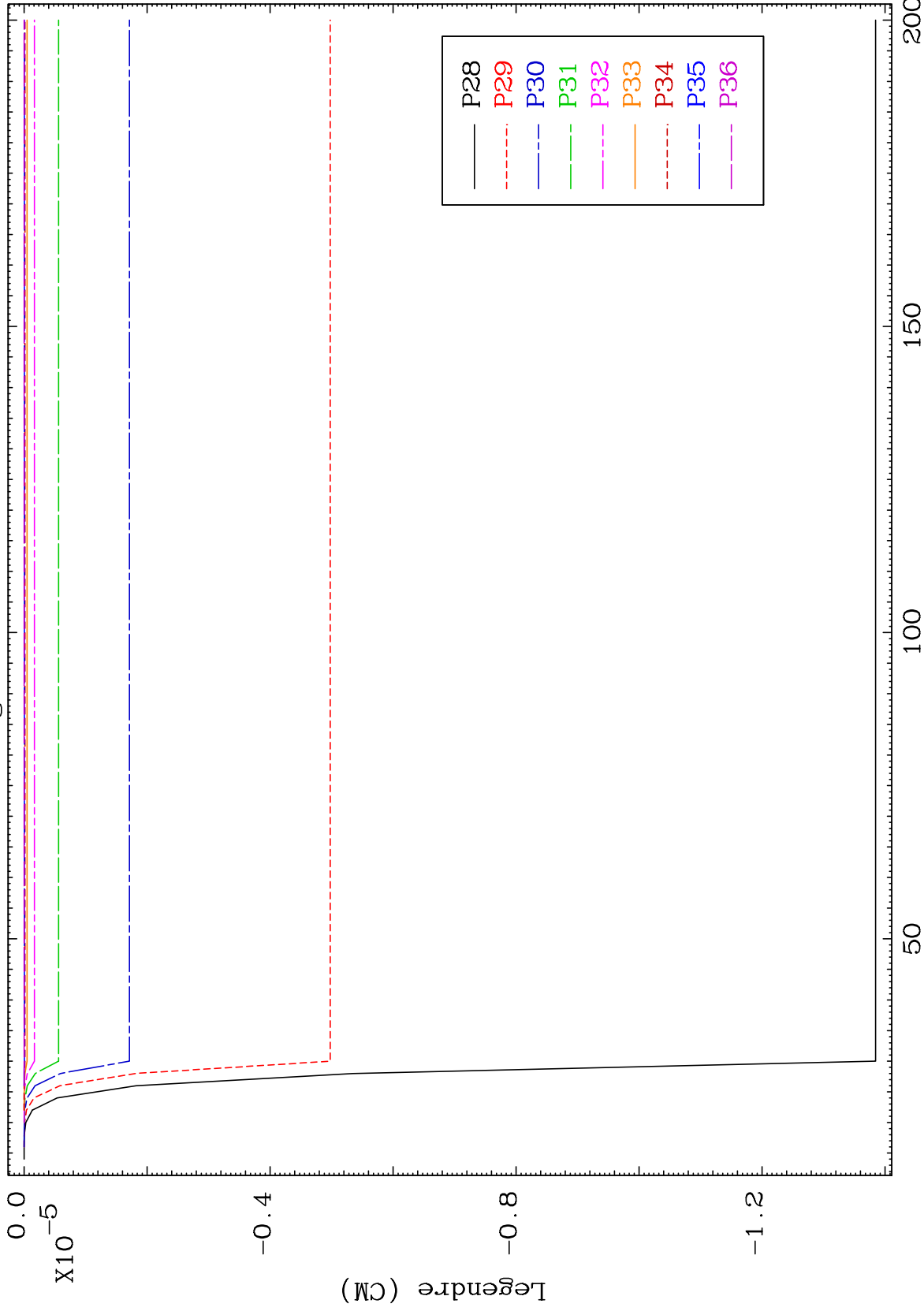
Incident Energy (MeV)

72-Hf-182

MAT 7249

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

72-Hf-182



72-Hf-182

Incident Energy (MeV)

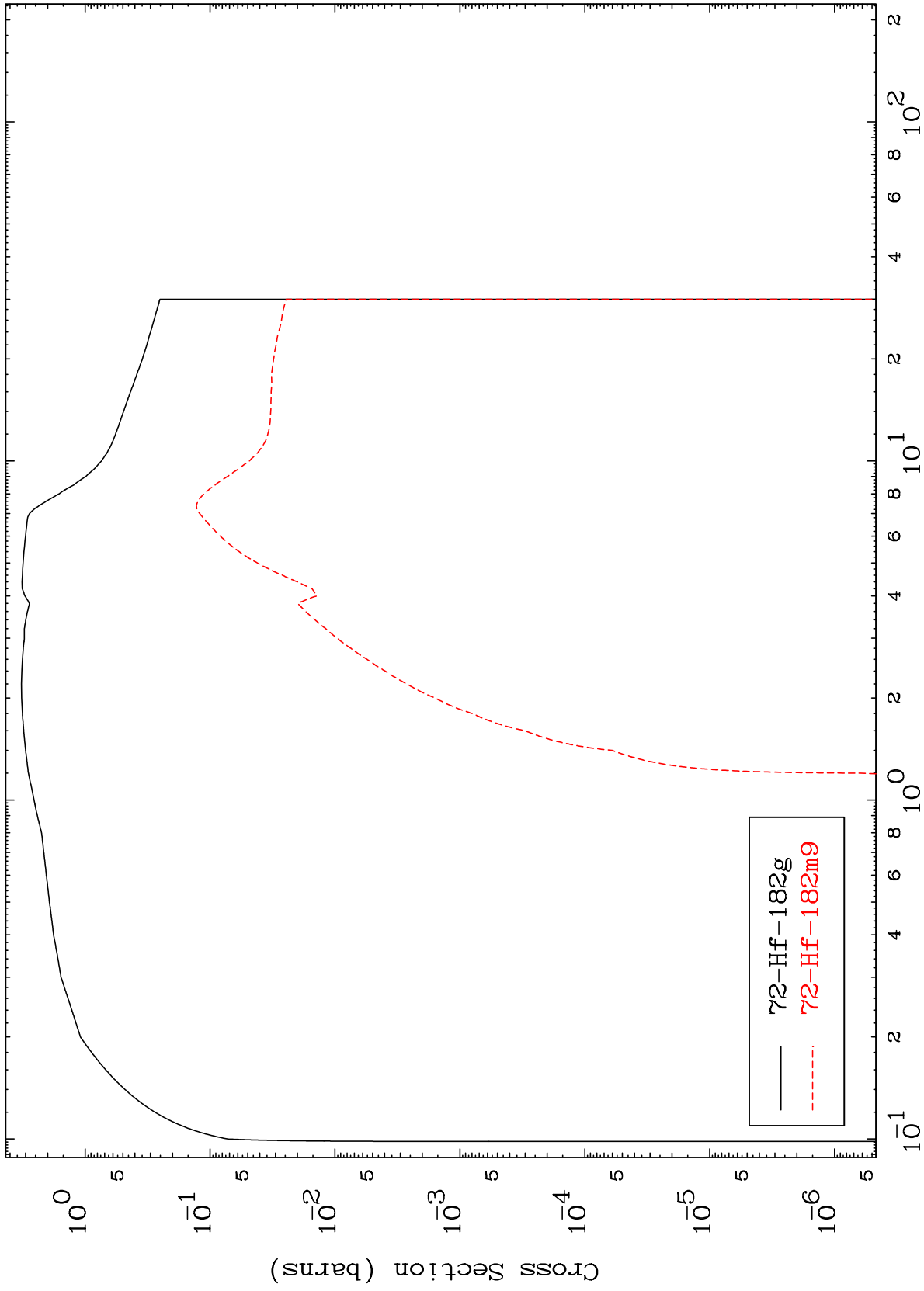
103



MAT 7249

72-Hf-182

### Inelastic Radionuclide Production Cross Section



104

Incident Energy (MeV)

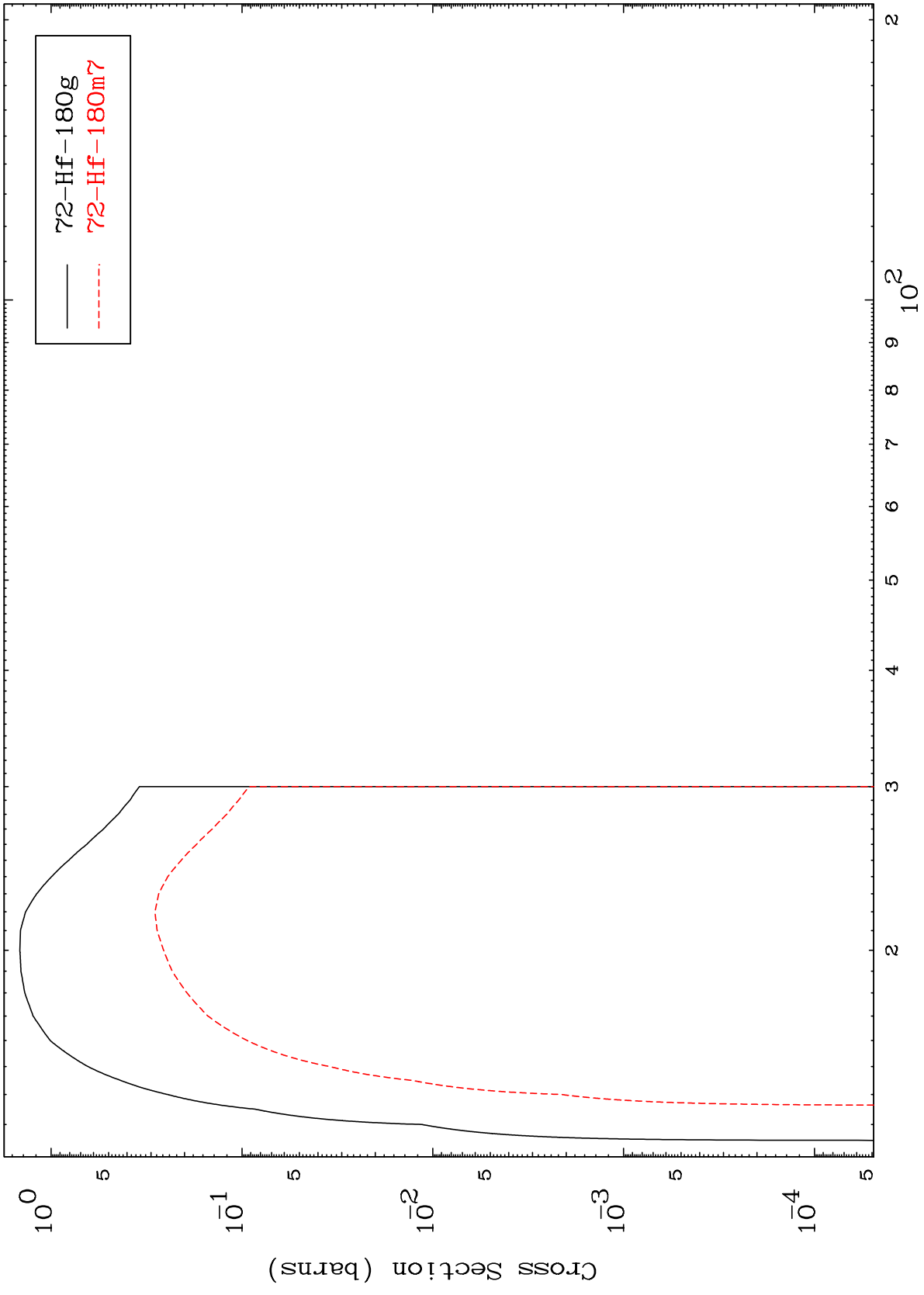
72-Hf-182

MAT 7249

(n,3n)

72-Hf-182

Radionuclide Production Cross Section



72-Hf-180g  
72-Hf-180m7

105

Incident Energy (MeV)

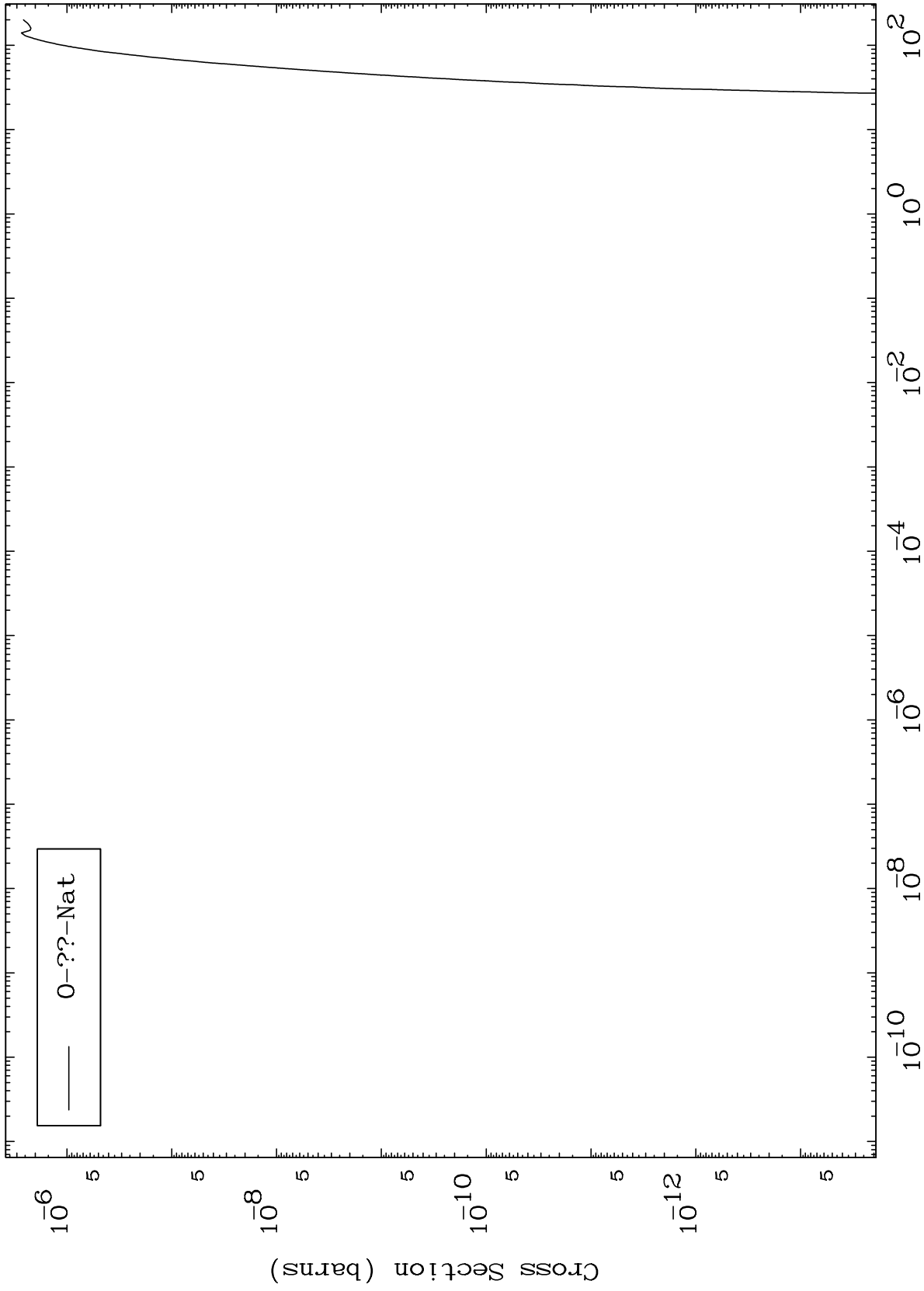
72-Hf-182

MAT 7249

Fission

72-Hf-182

Radionuclide Production Cross Section



106

Incident Energy (MeV)

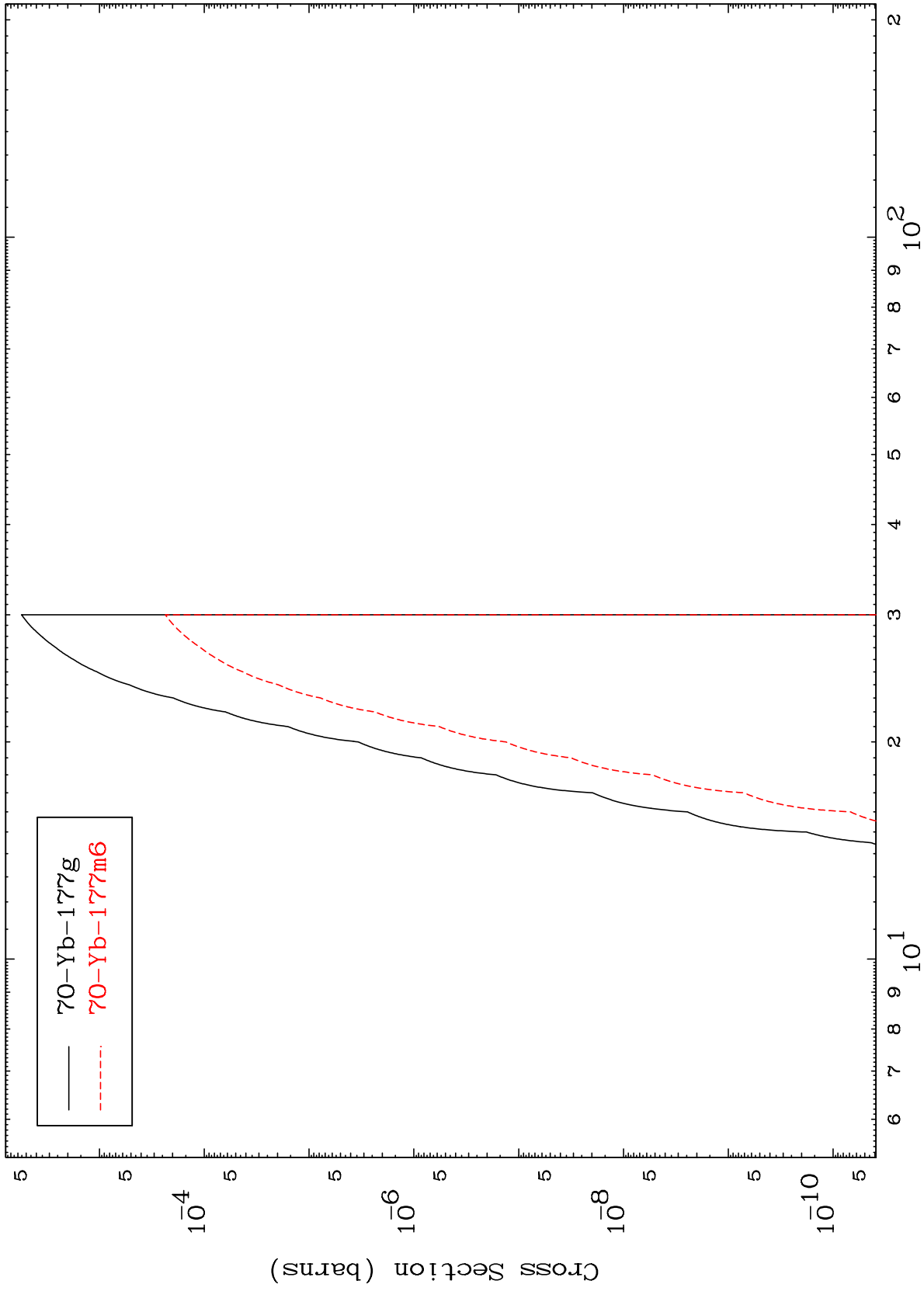
72-Hf-182

MAT 7249

$(n, 2n) \alpha$

72-Hf-182

Radionuclide Production Cross Section



107

Incident Energy (MeV)

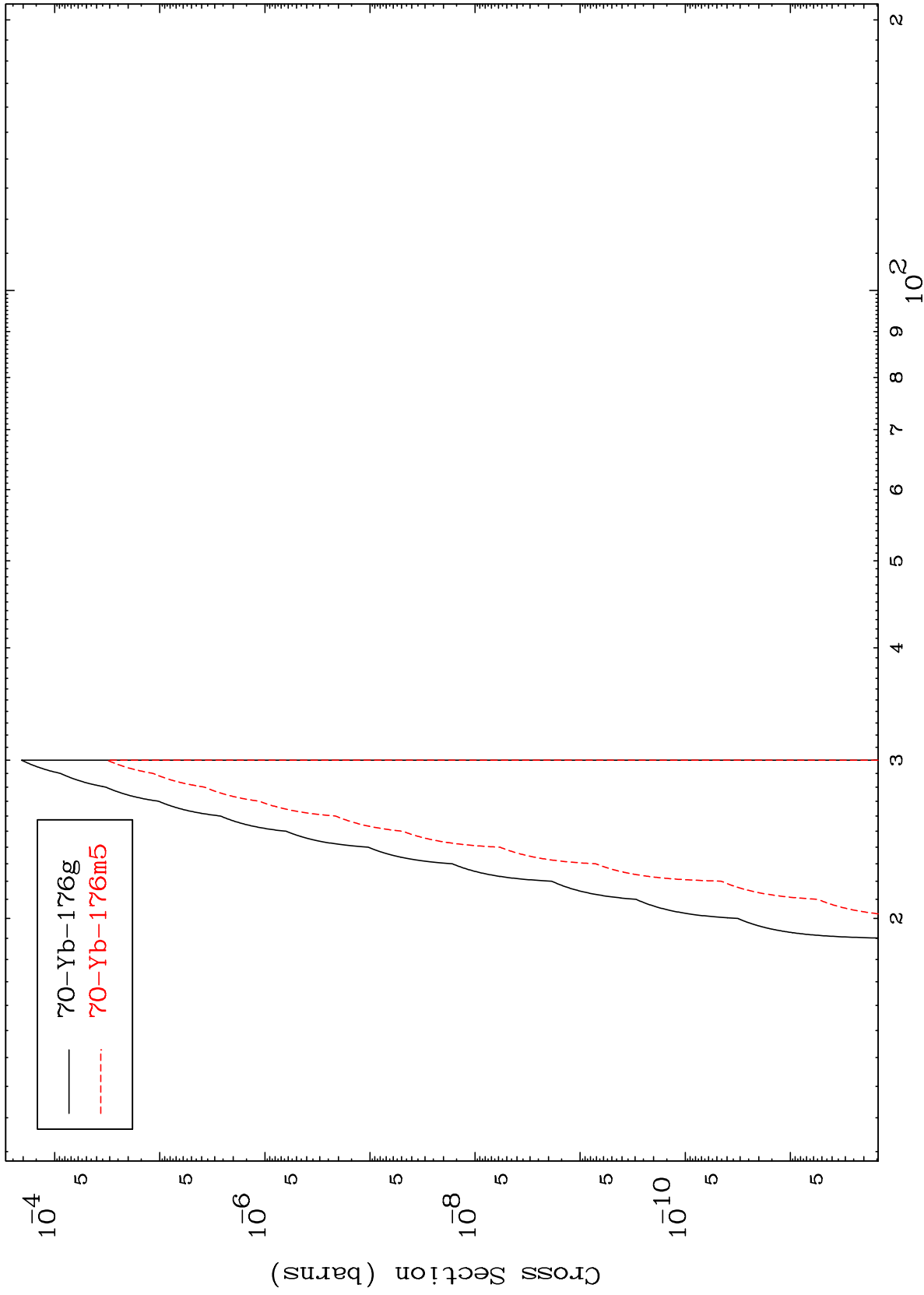
72-Hf-182

MAT 7249

(n,3n)  $\alpha$

72-Hf-182

Radionuclide Production Cross Section



108

Incident Energy (MeV)

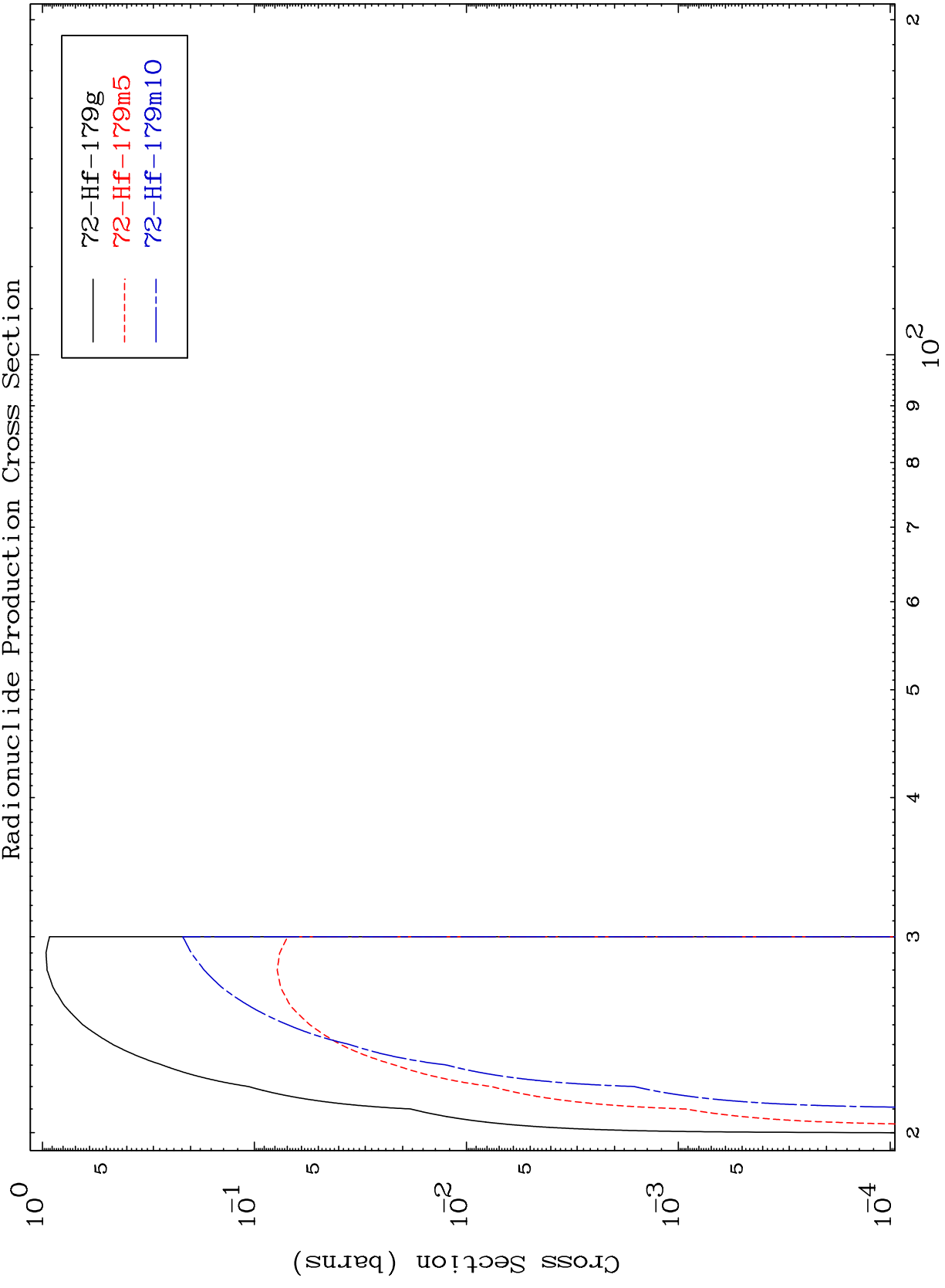
72-Hf-182

MAT 7249

(n,4n)

72-Hf-182

Radionuclide Production Cross Section



109

Incident Energy (MeV)

72-Hf-182