

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

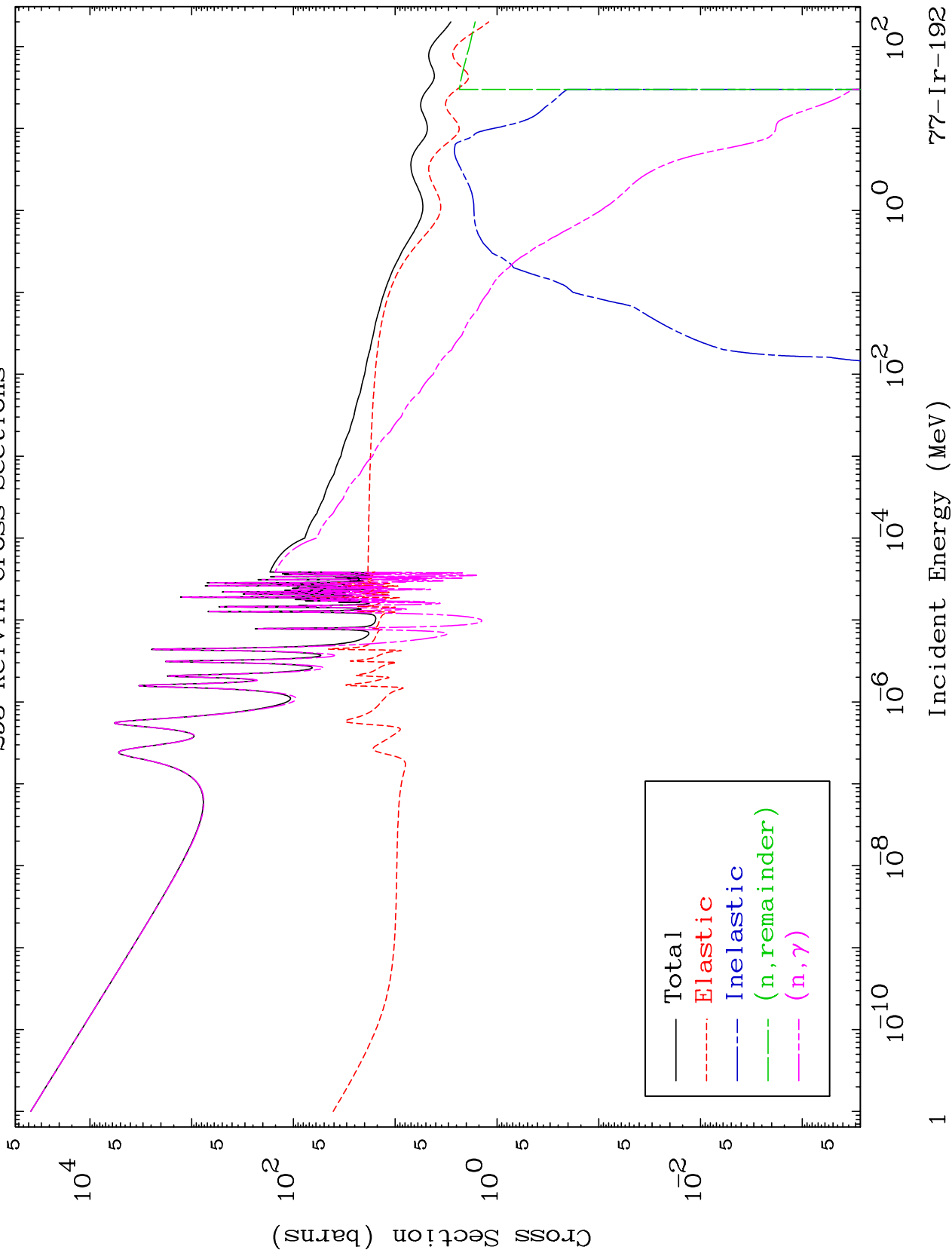
Press Mouse Button to Start

MAT 7728

Major

293 Kelvin Cross Sections

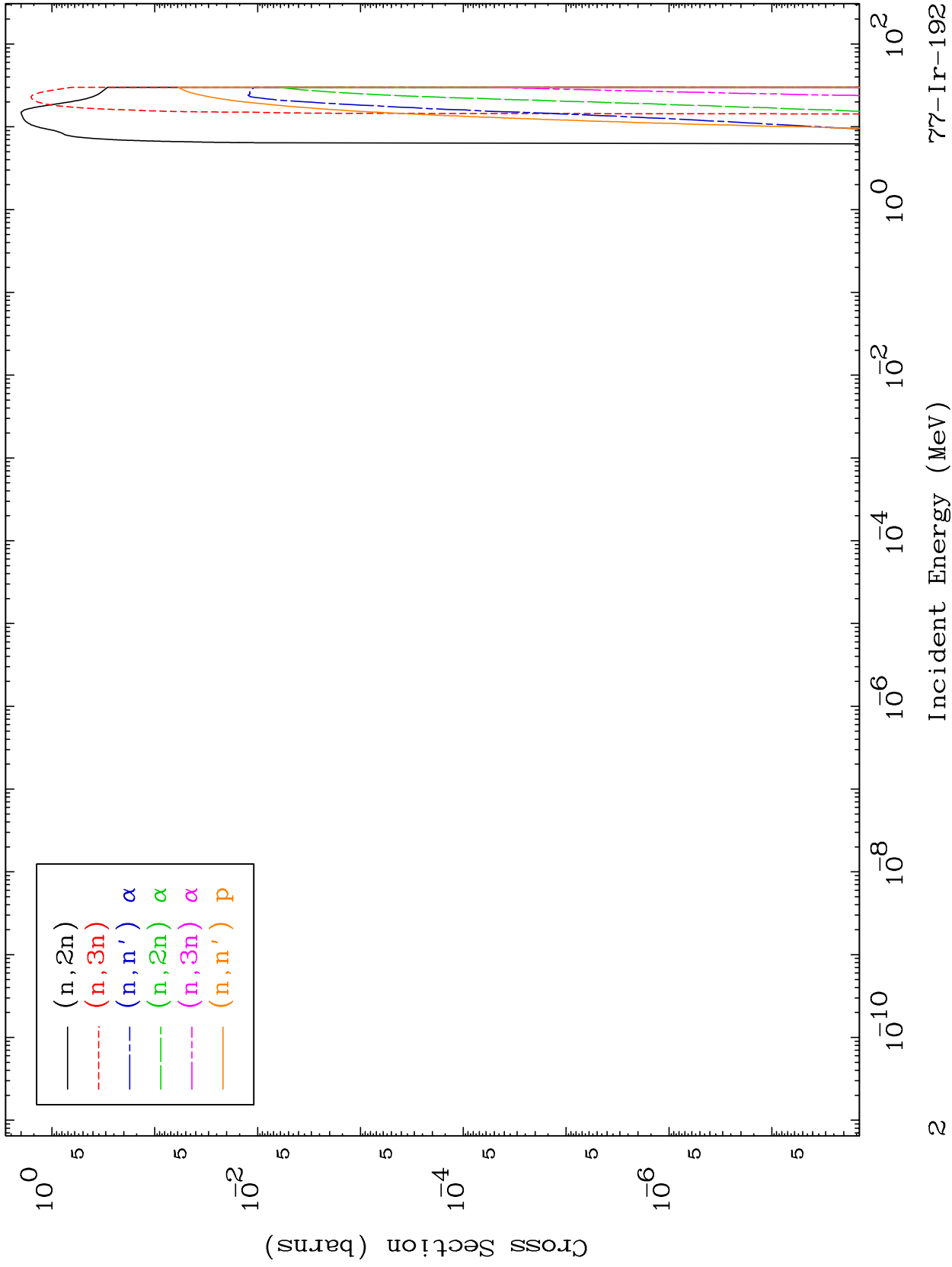
77-Ir-192

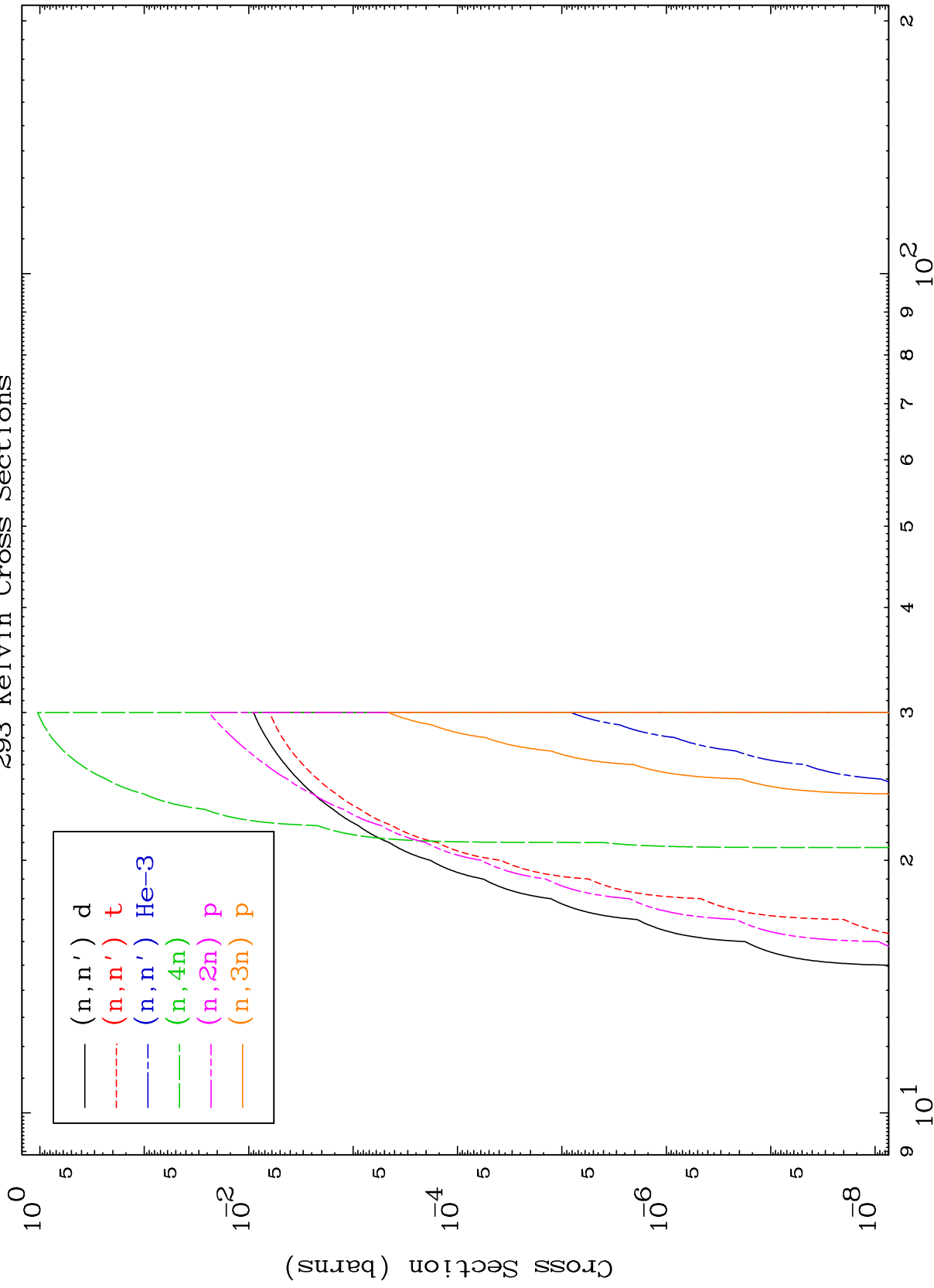


MAT 7728

Neutron Production  
293 Kelvin Cross Sections

77-Ir-192

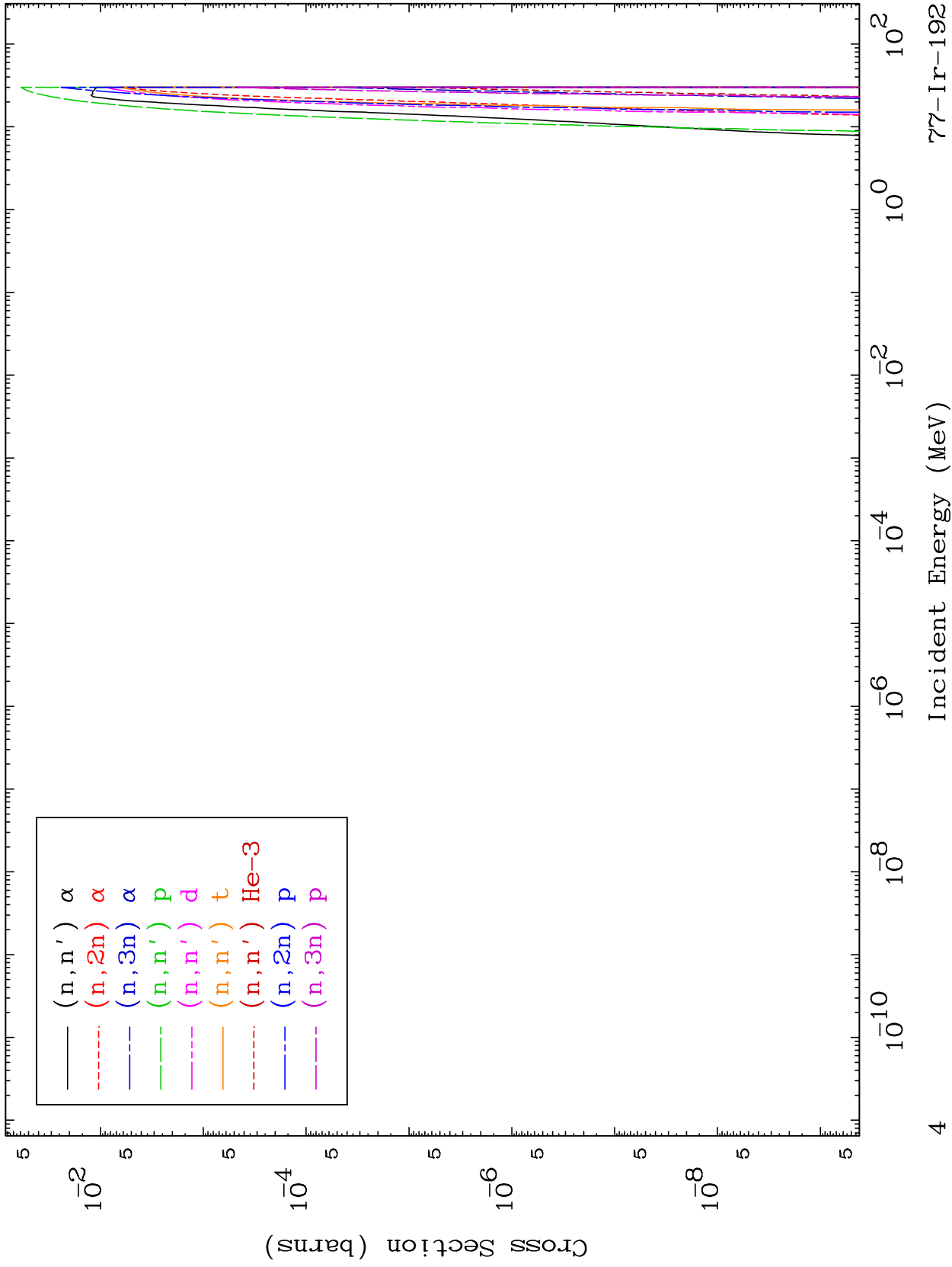




MAT 7728

Charged Particle  
293 Kelvin Cross Sections

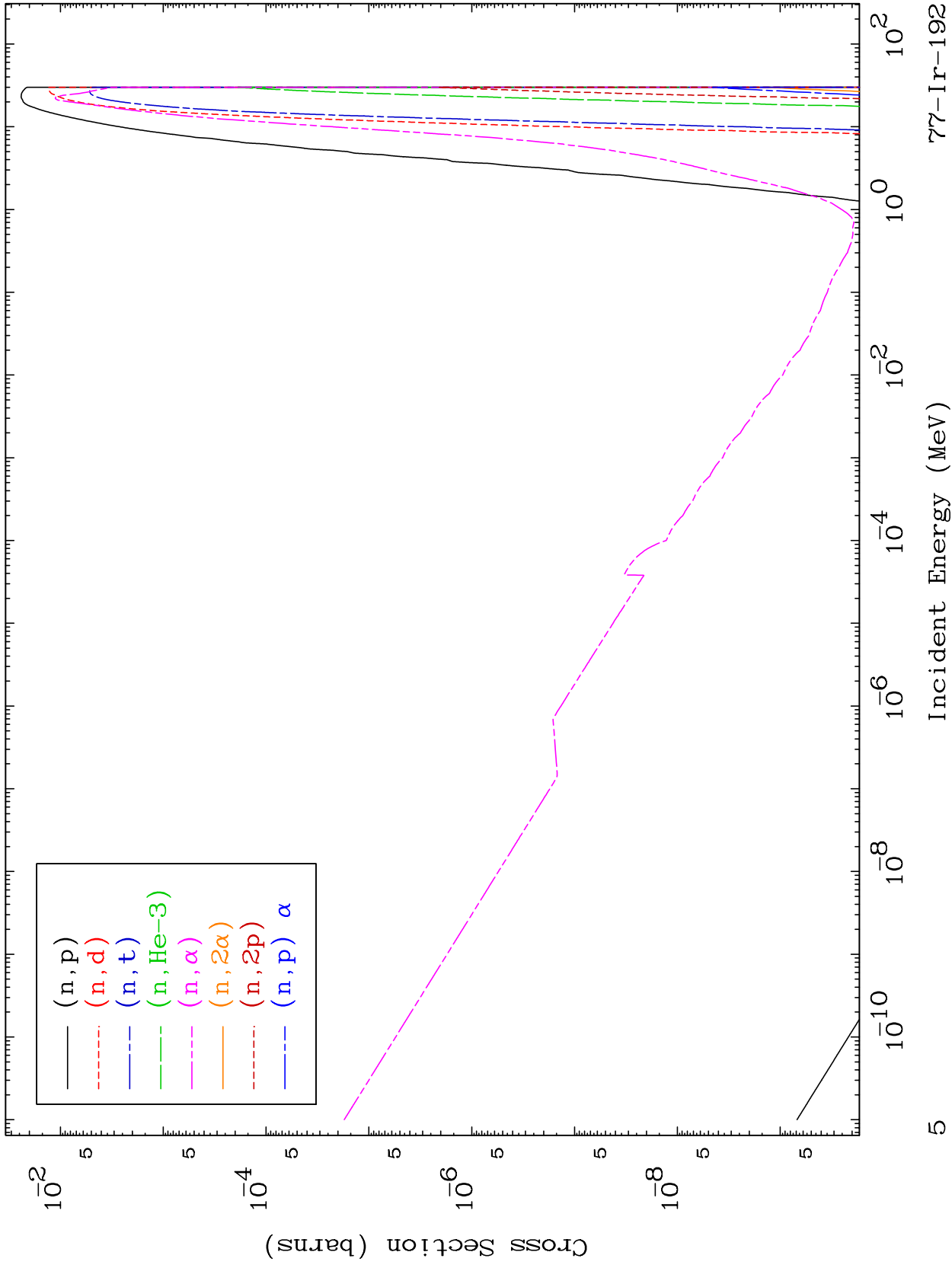
77-Ir-192



MAT 7728

Charged Particle  
293 Kelvin Cross Sections

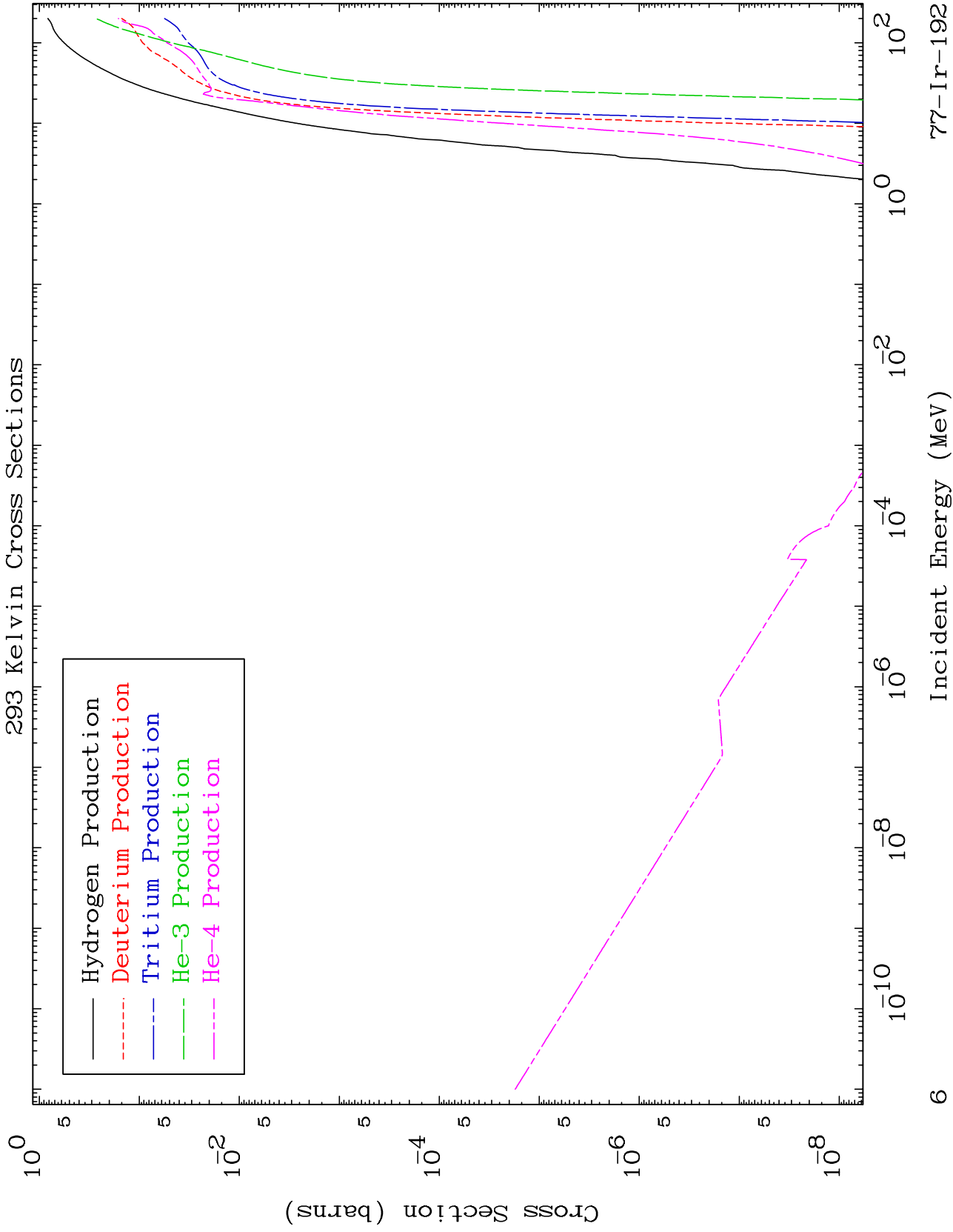
77-Ir-192



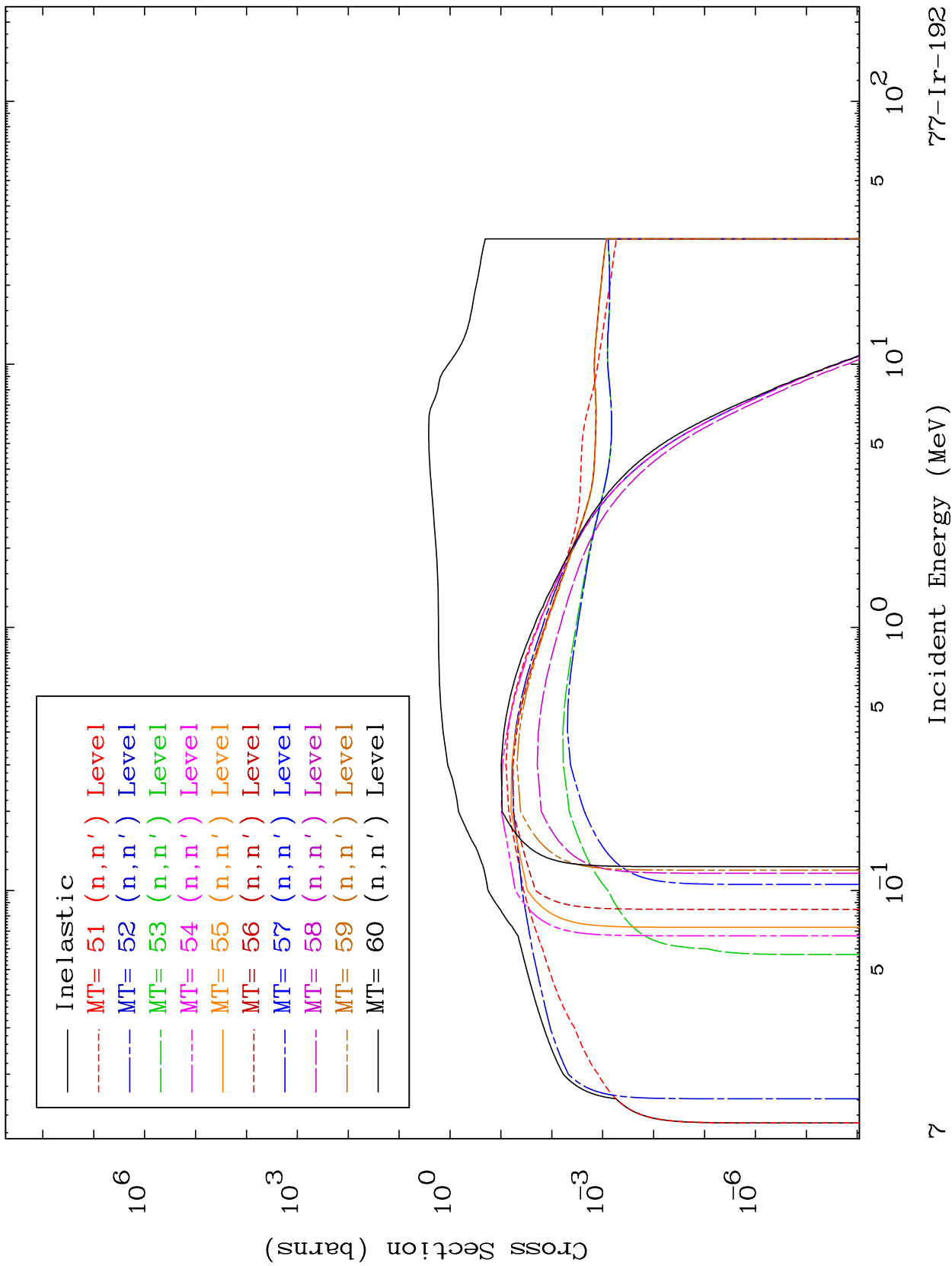
MAT 7728

Particle Production  
293 Kelvin Cross Sections

77-Ir-192

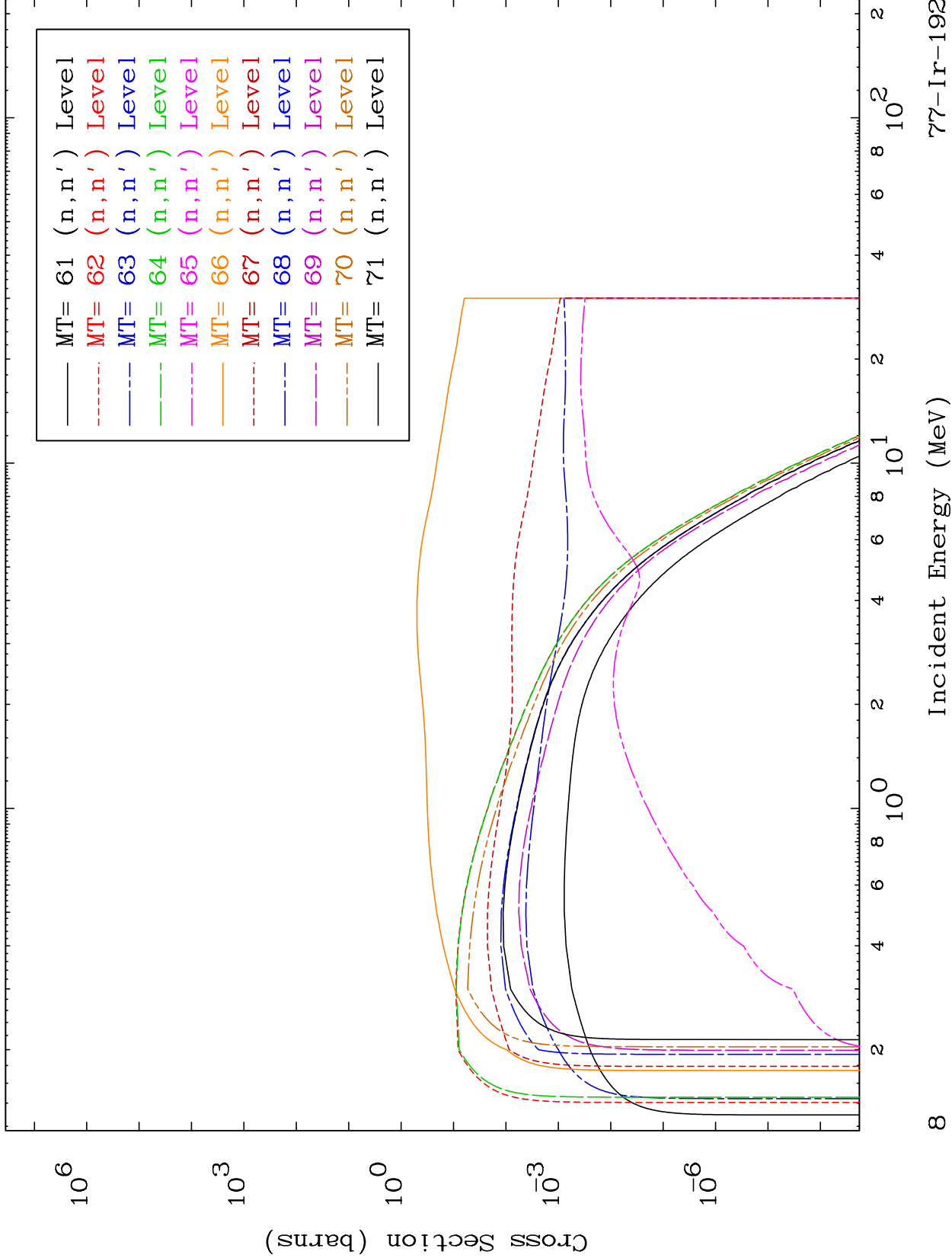


293 Kelvin Cross Sections

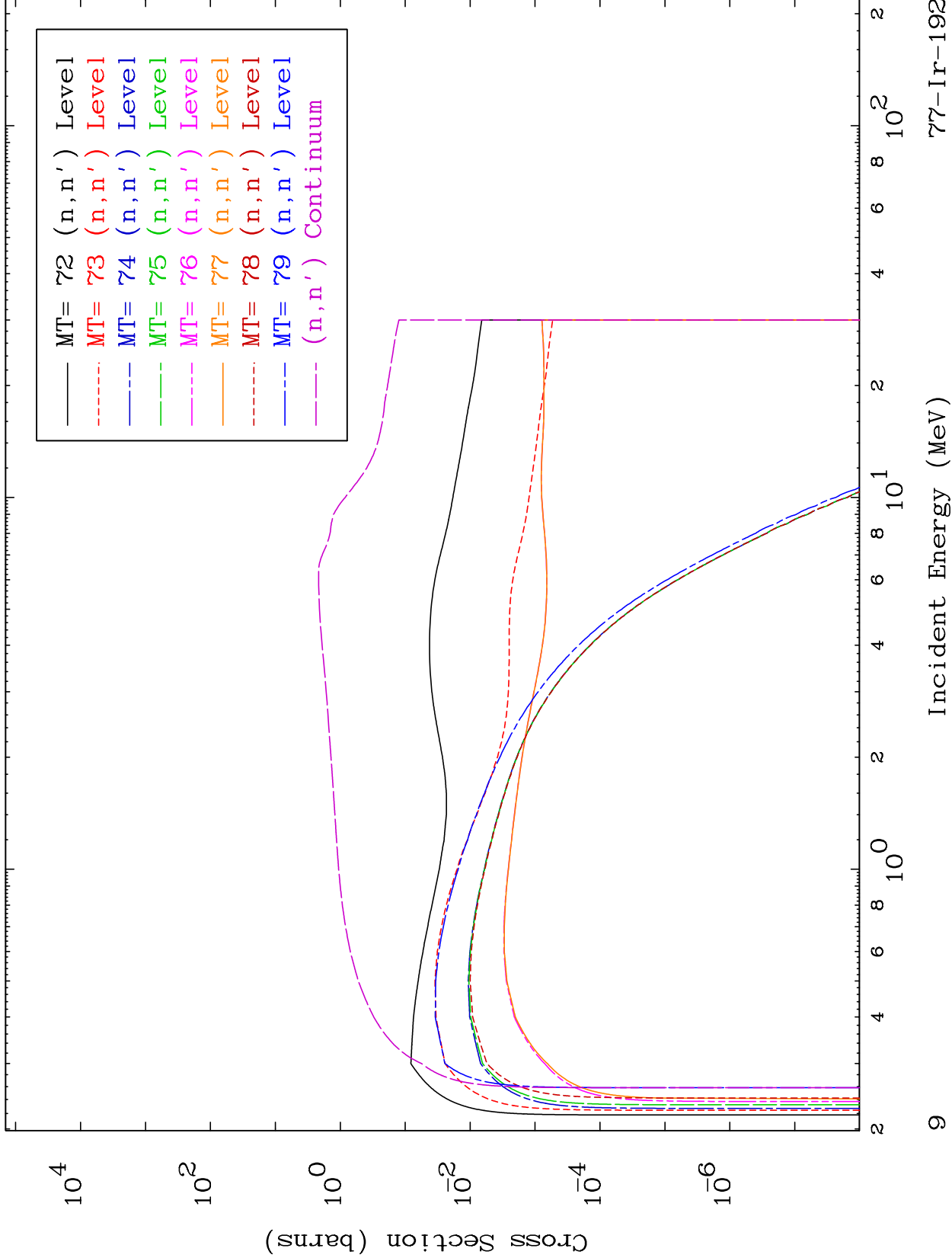




293 Kelvin Cross Sections



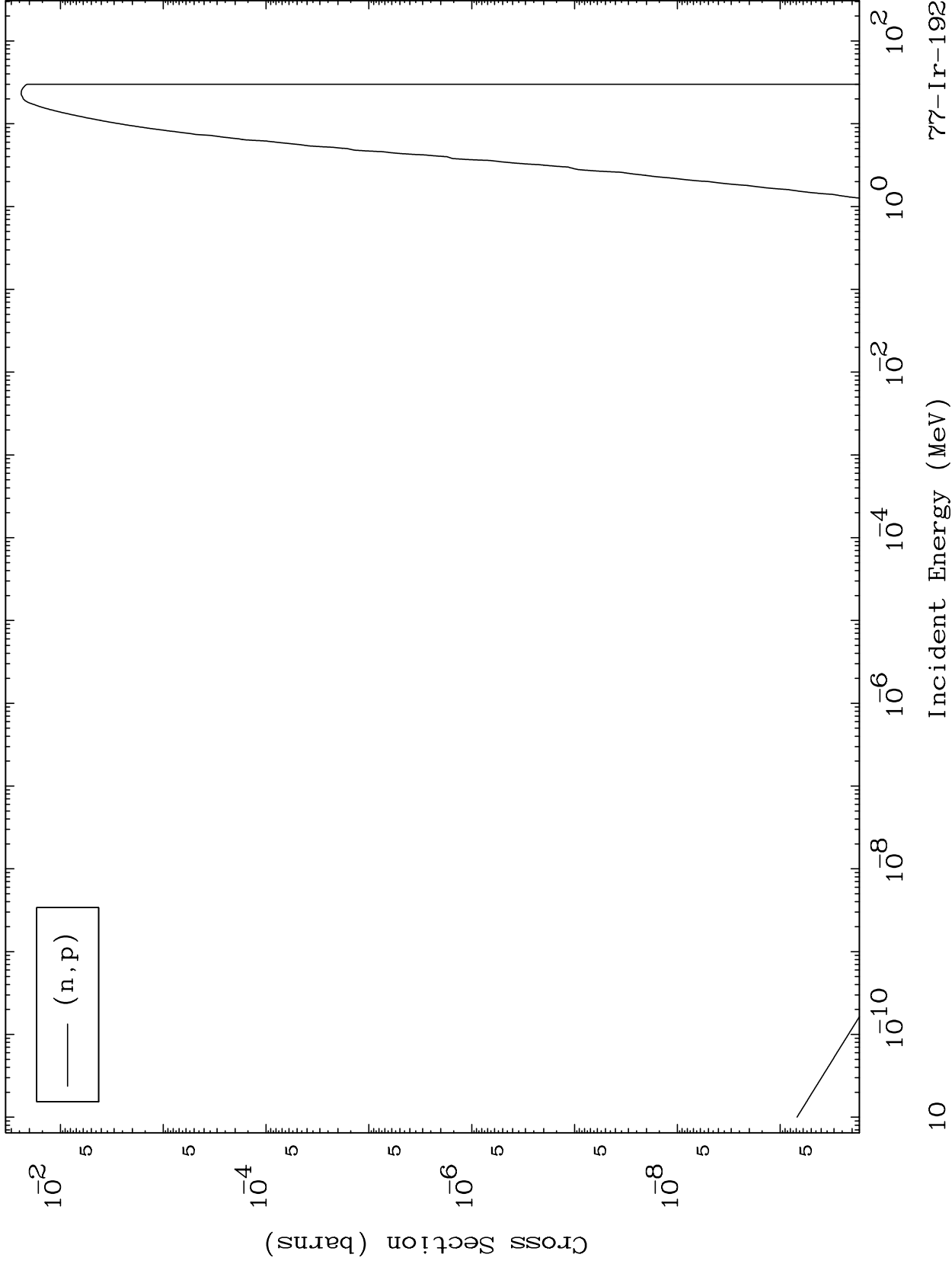
293 Kelvin Cross Sections



MAT 7728

(n,p) Levels  
293 Kelvin Cross Sections

77-Ir-192



10

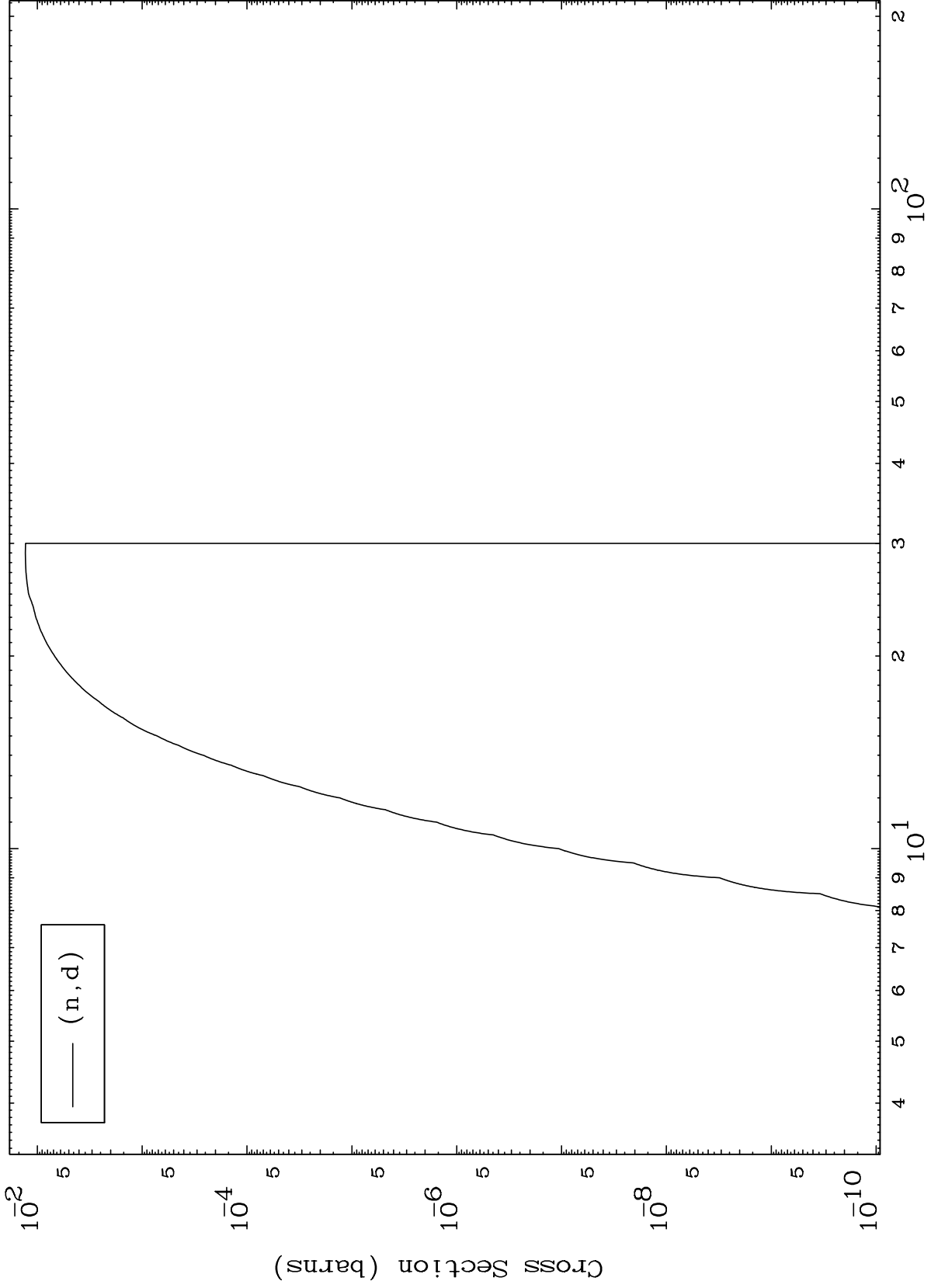
Incident Energy (MeV)

77-Ir-192

MAT 7728

(n,d) Levels  
293 Kelvin Cross Sections

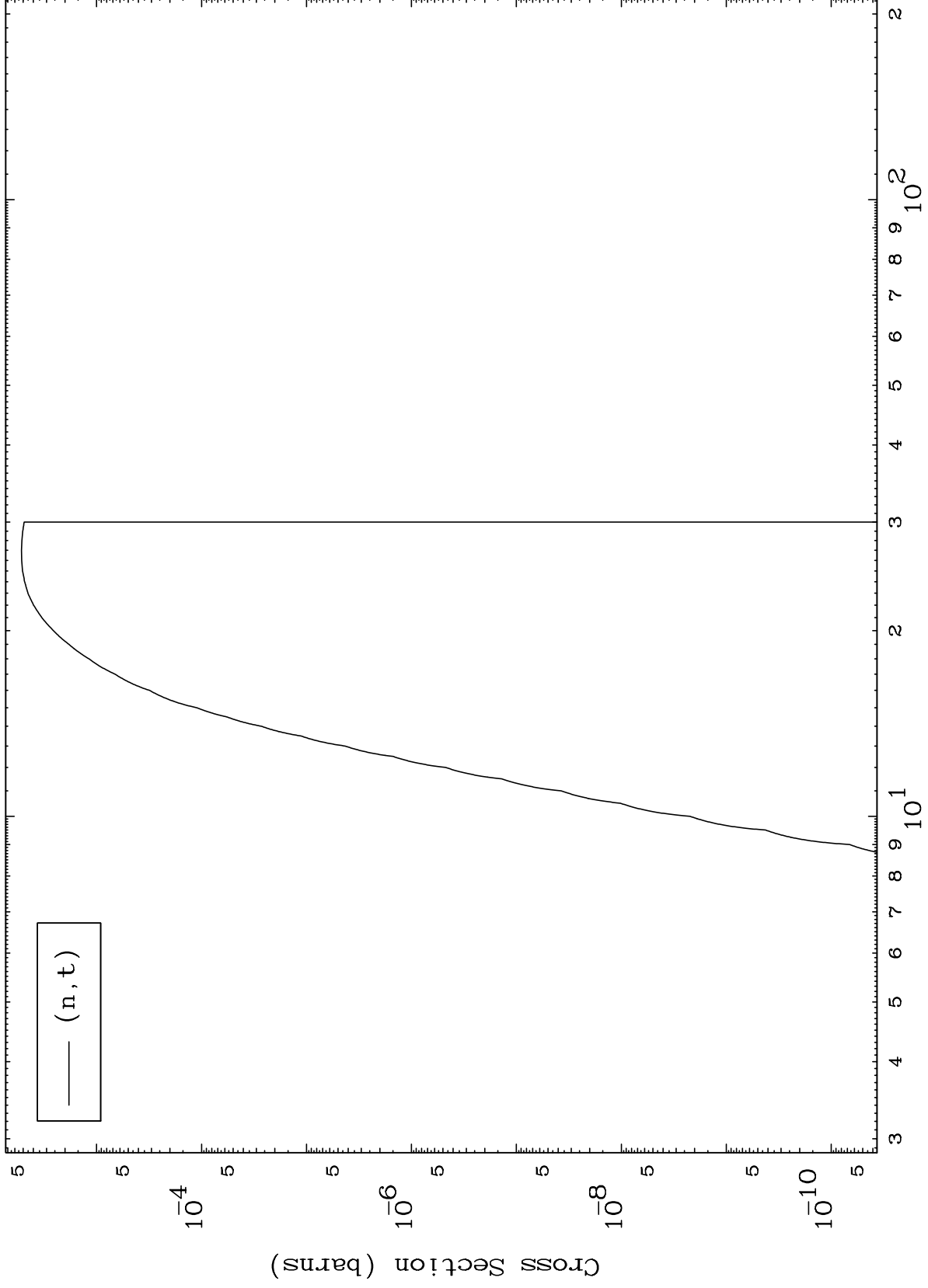
77-Ir-192



MAT 7728

(n,t) Levels  
293 Kelvin Cross Sections

77-Ir-192



12

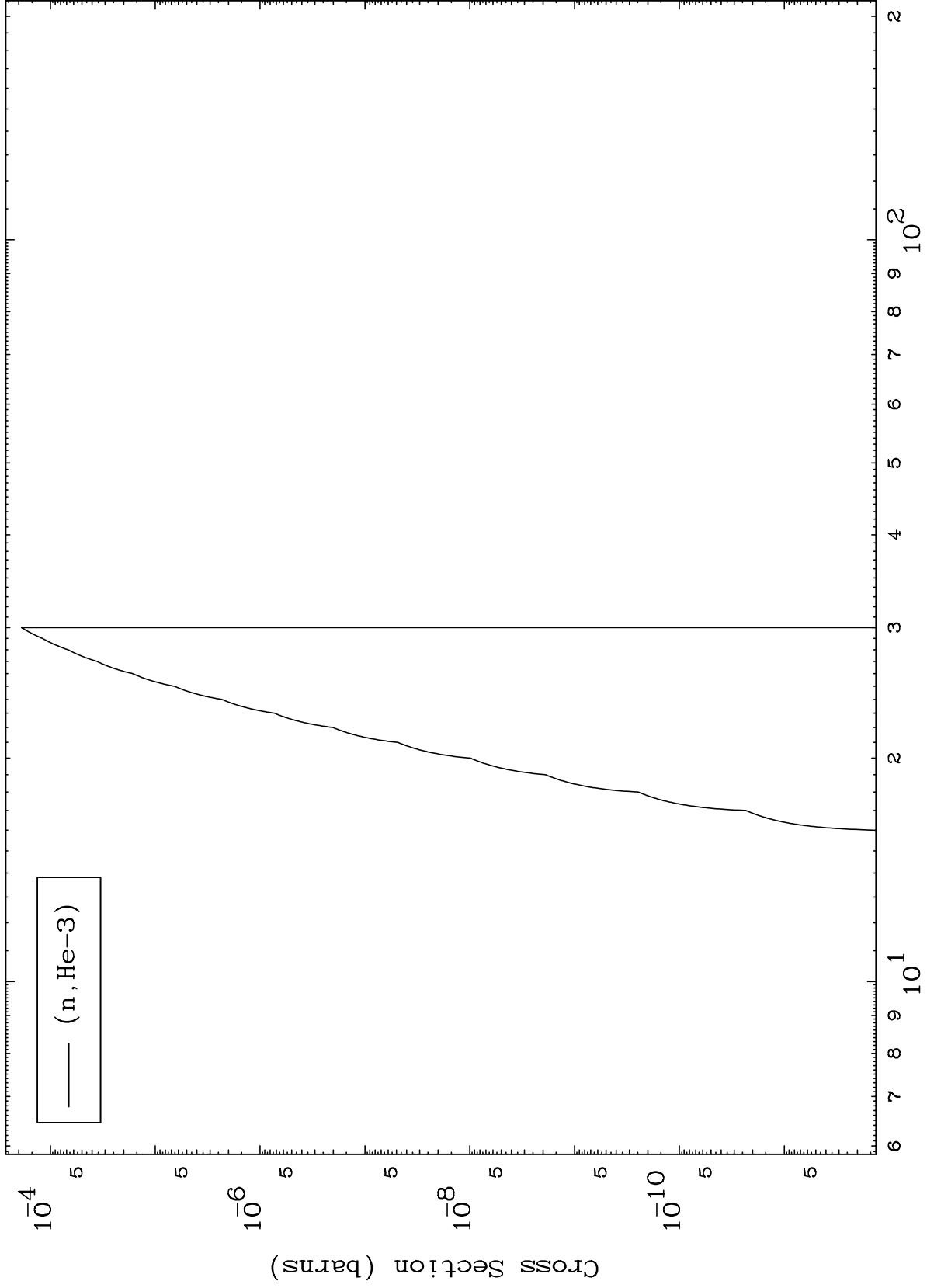
Incident Energy (MeV)

77-Ir-192

MAT 7728

(n,He3) Levels  
293 Kelvin Cross Sections

77-Ir-192



13

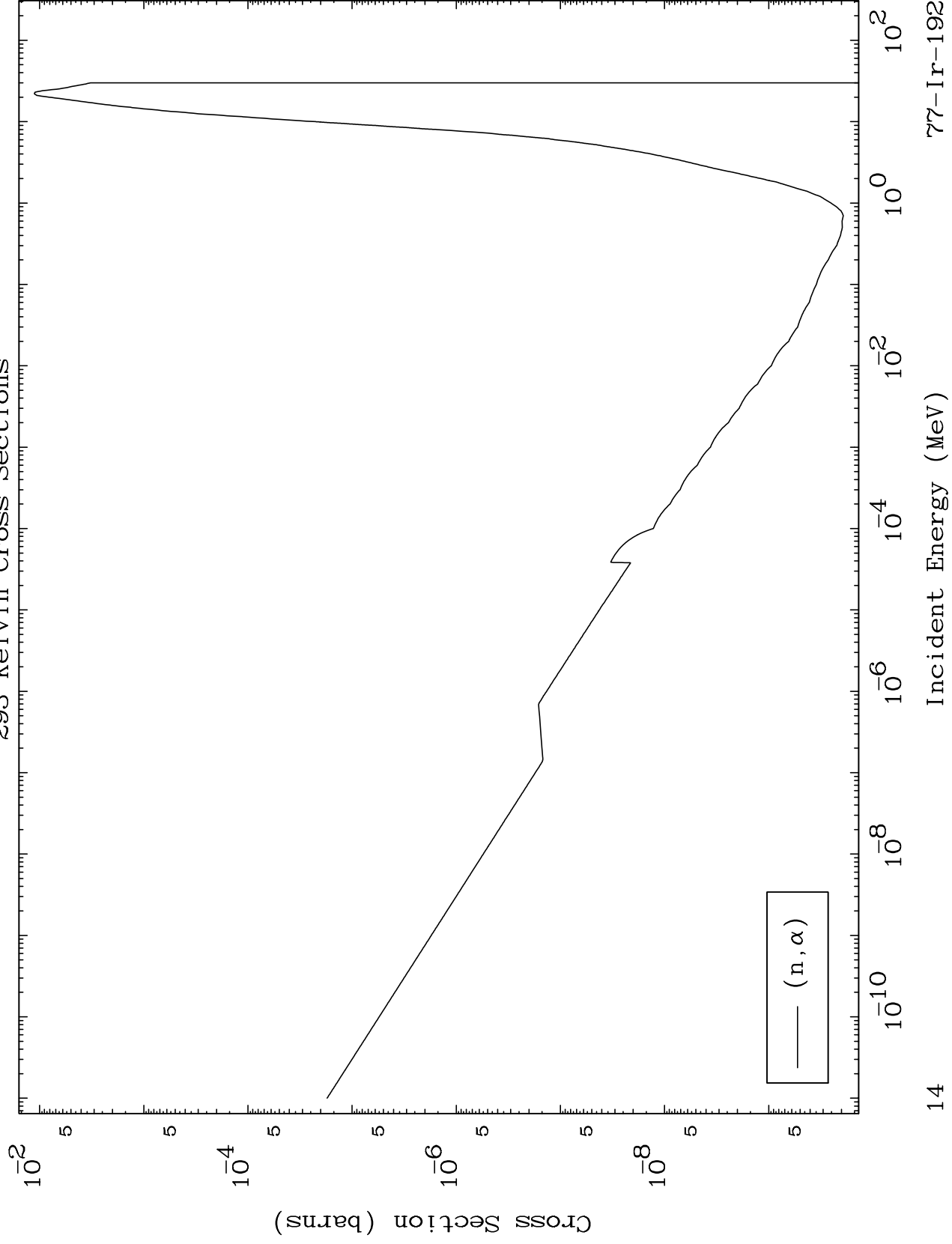
Incident Energy (MeV)

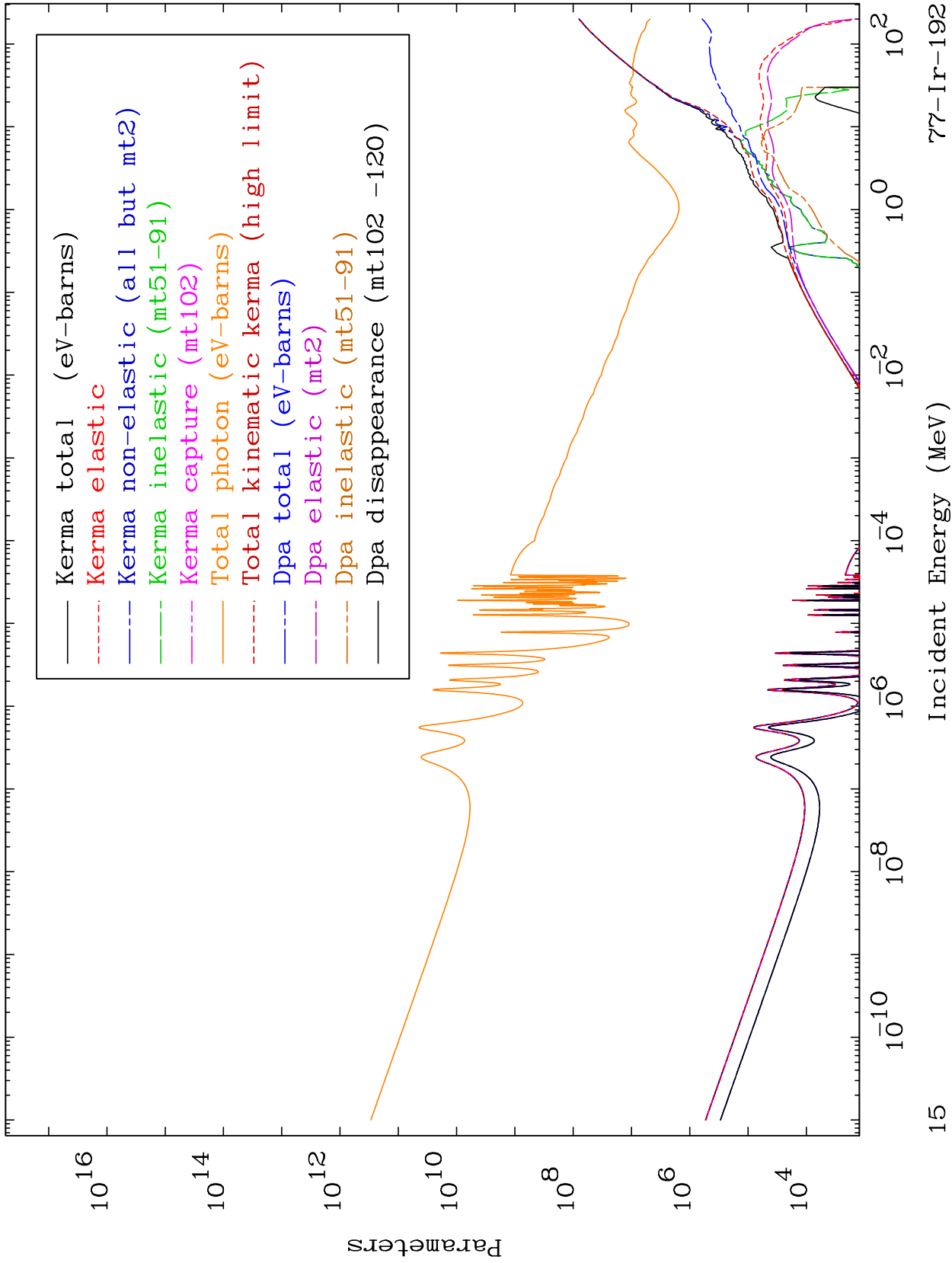
77-Ir-192

MAT 7728

(n,α) Levels  
293 Kelvin Cross Sections

77-Ir-192



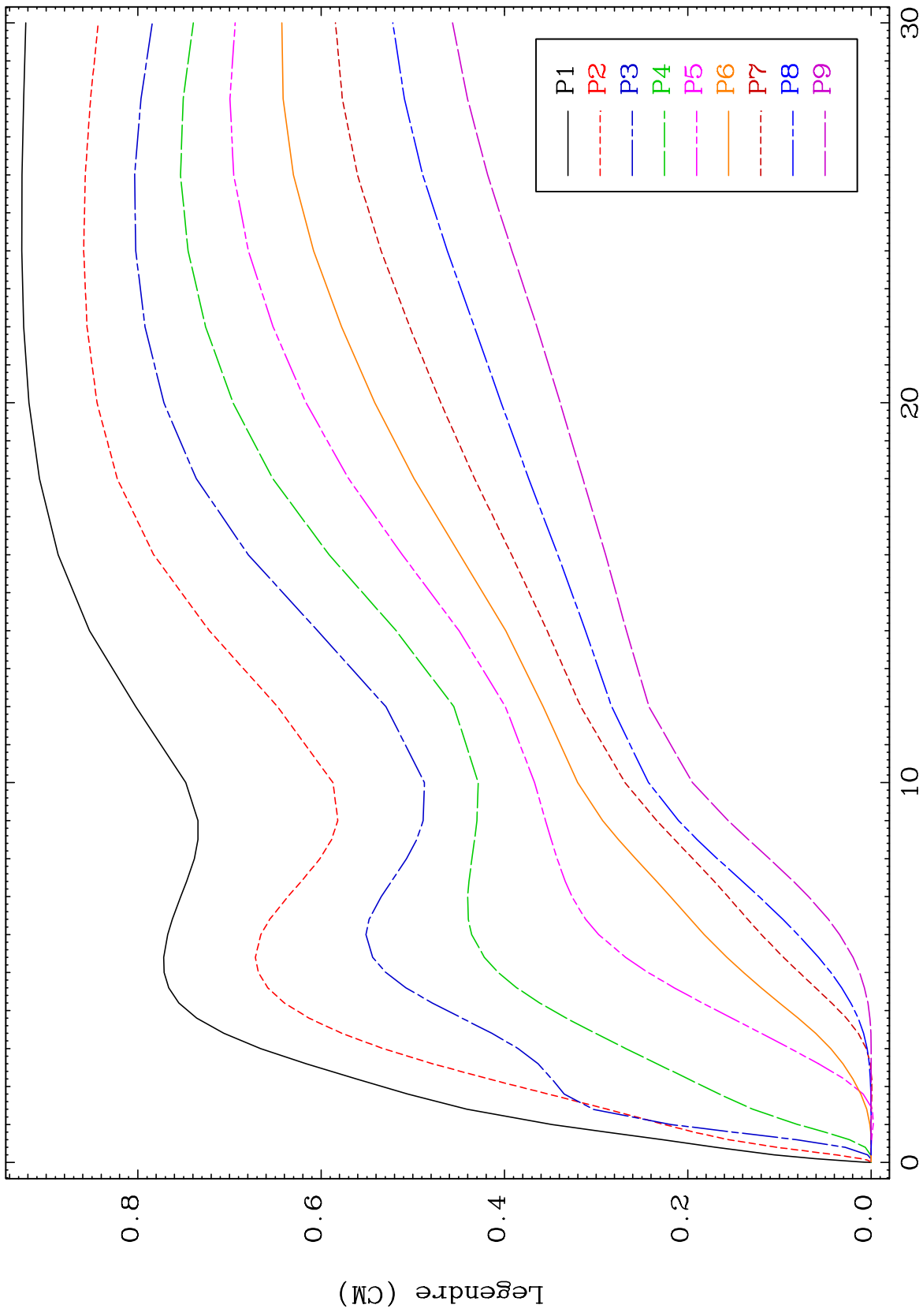




MAT 7728

77-Ir-192

Elastic Legendre Coefficients



77-Ir-192

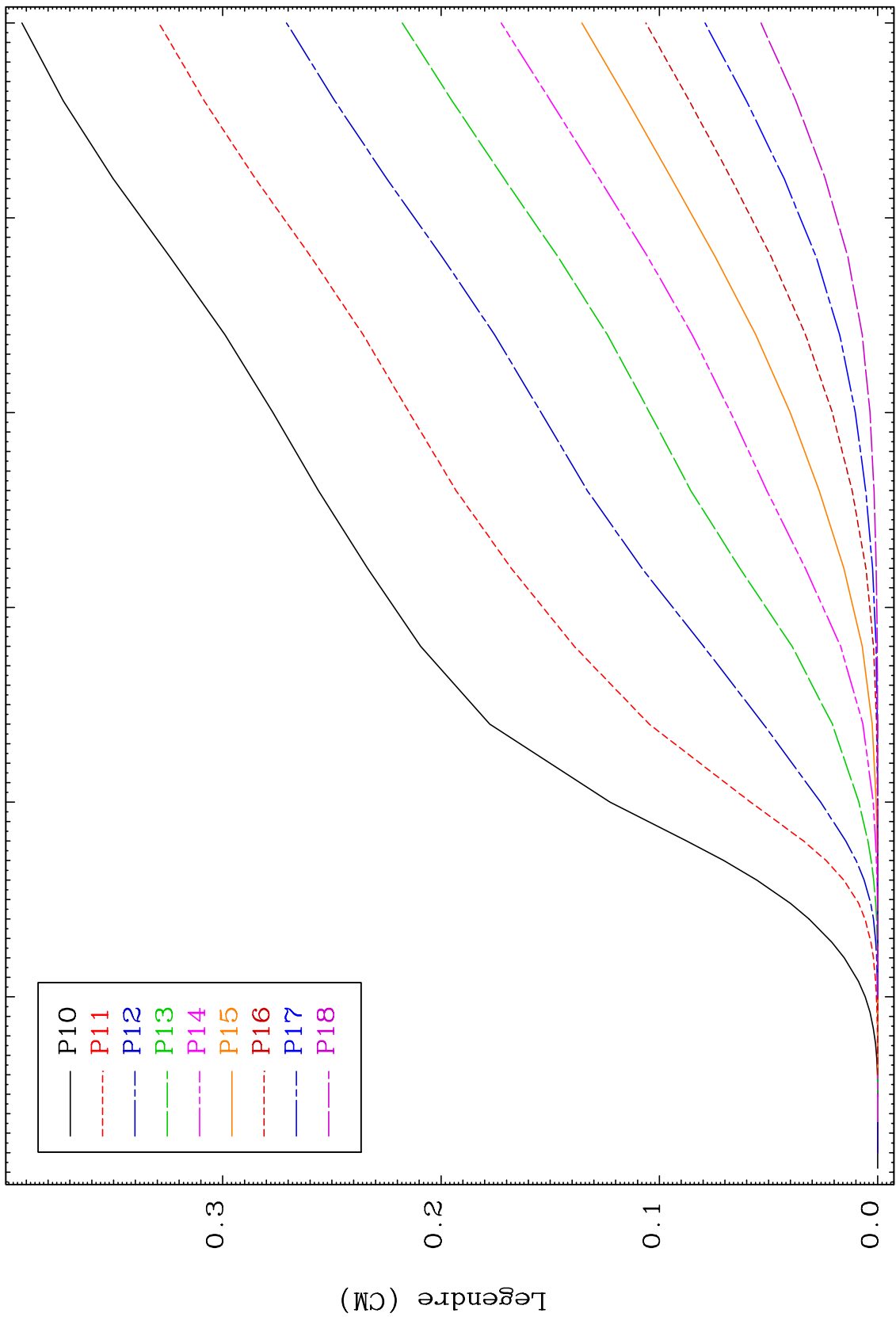
Incident Energy (MeV)

16

MAT 7728

Elastic Legendre Coefficients

<sup>77</sup>Ir-192



17

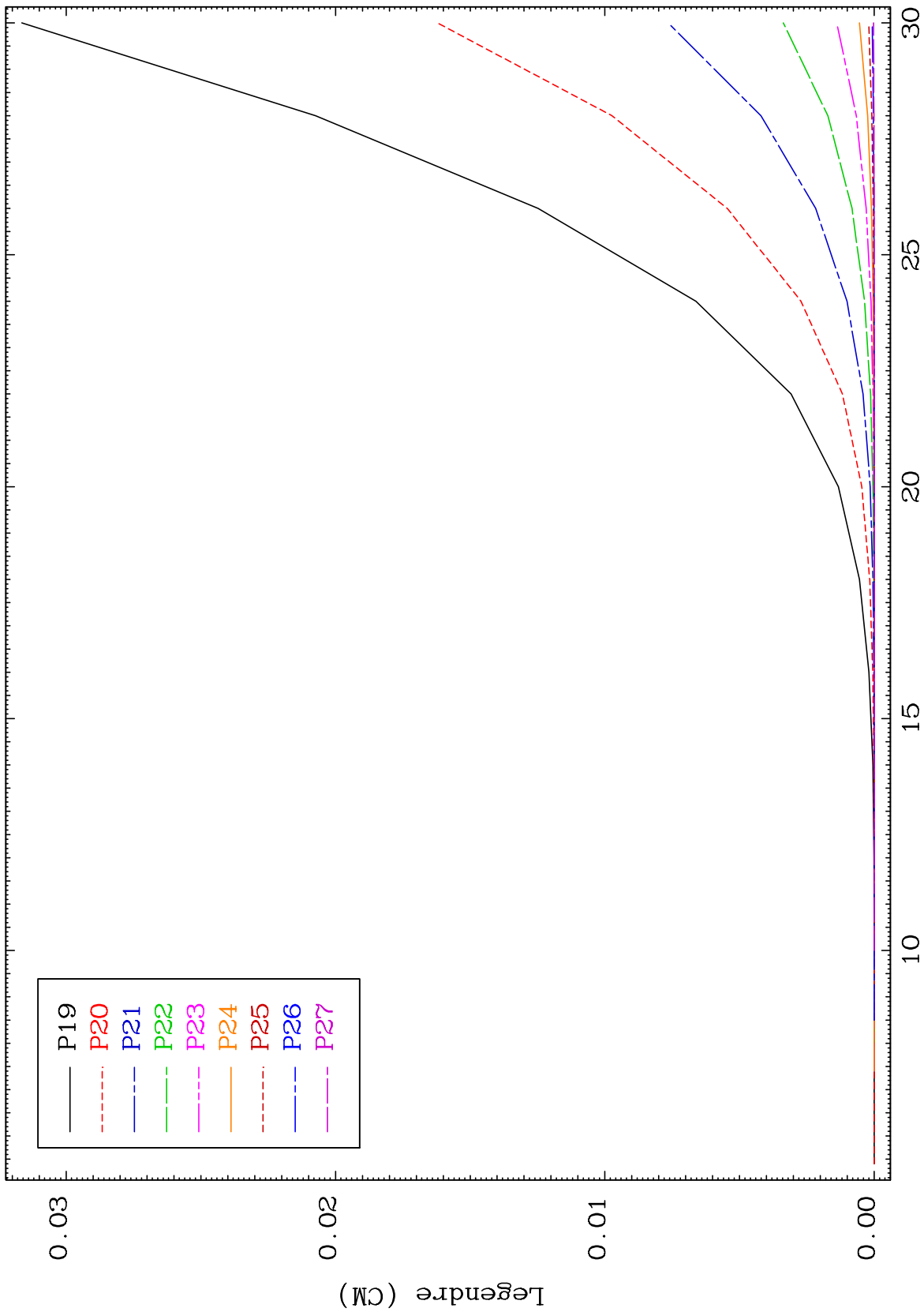
Incident Energy (MeV)

<sup>77</sup>Ir-192

MAT 7728

Elastic  
Legendre Coefficients

77-Ir-192



18

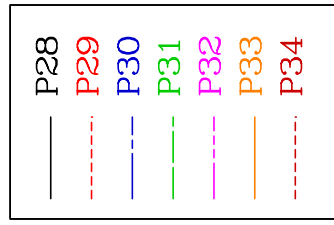
Incident Energy (MeV)

77-Ir-192

MAT 7728

Elastic  
Legendre Coefficients

77-Ir-192

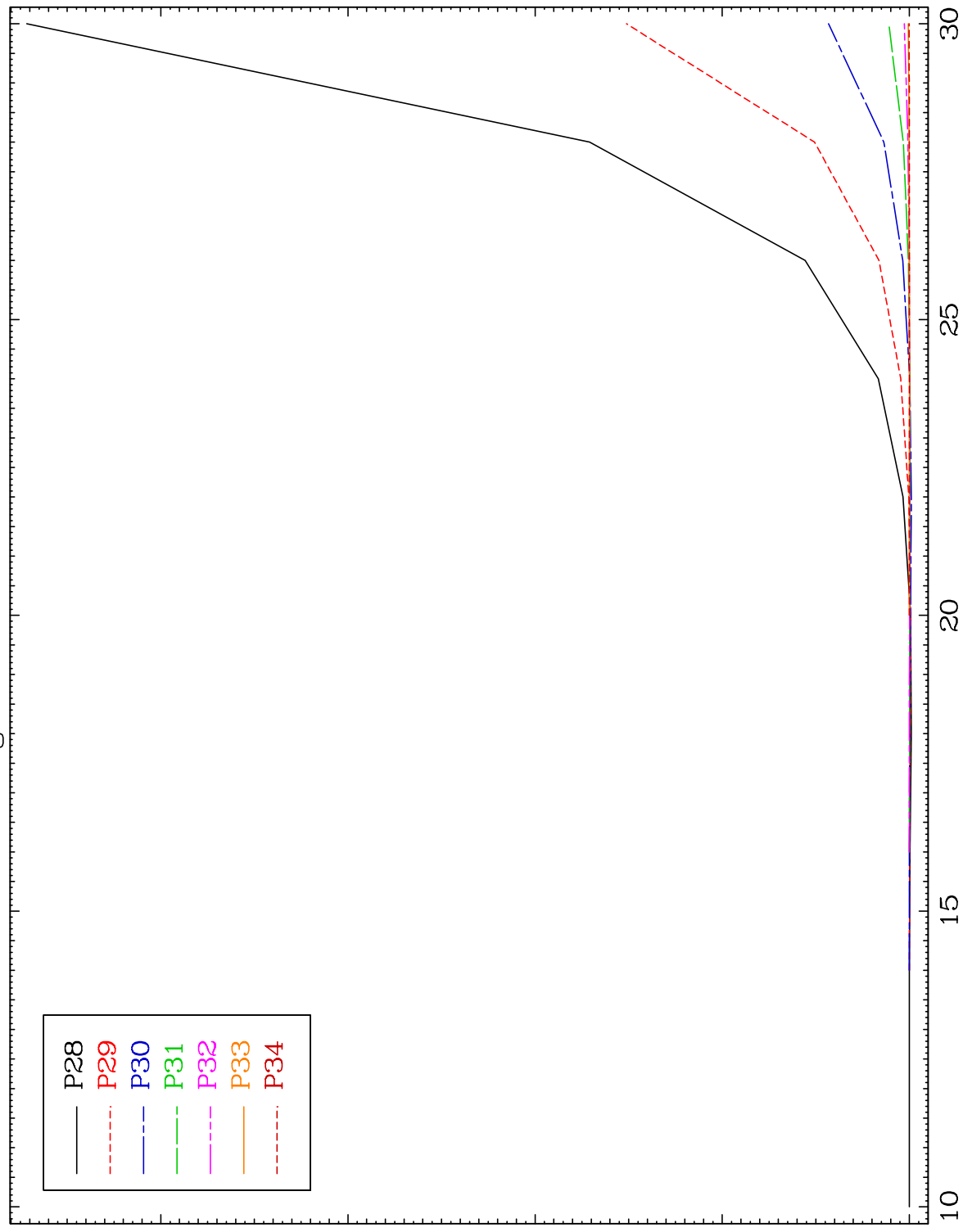


$\times 10^{-6}$

Legendre (CM)

Incident Energy (MeV)

77-Ir-192

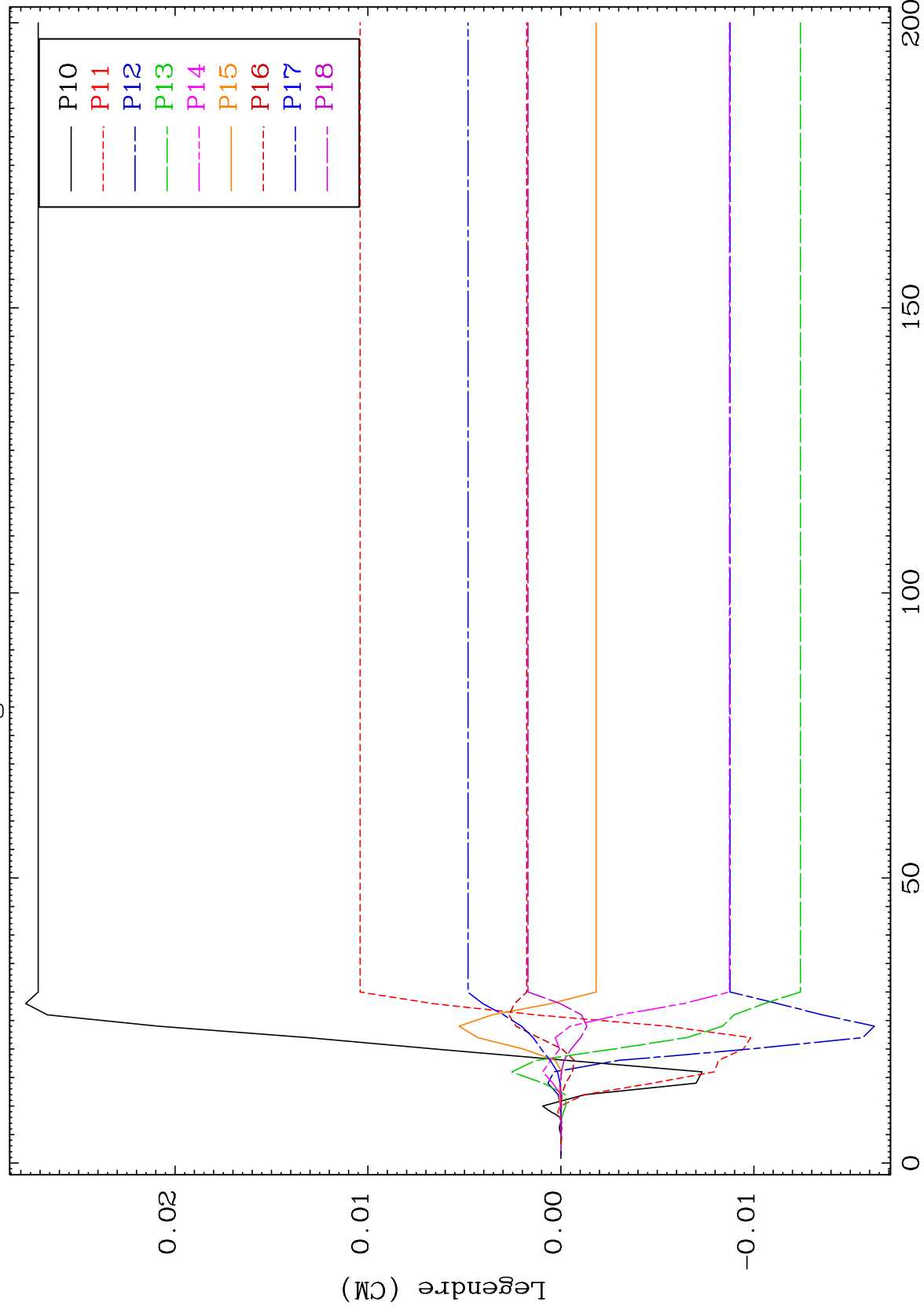




MAT 7728

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

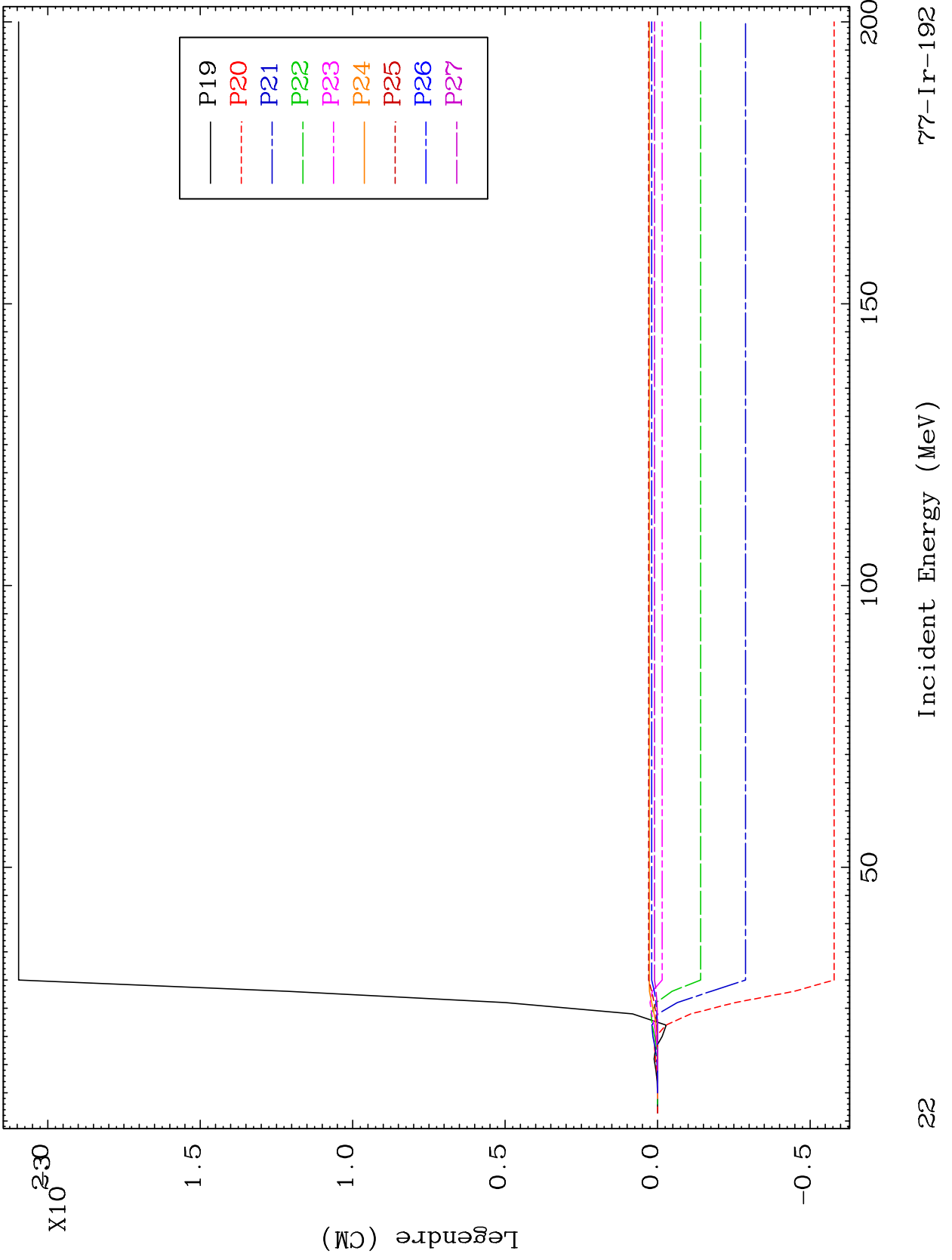
77-Ir-192



21

Incident Energy (MeV)

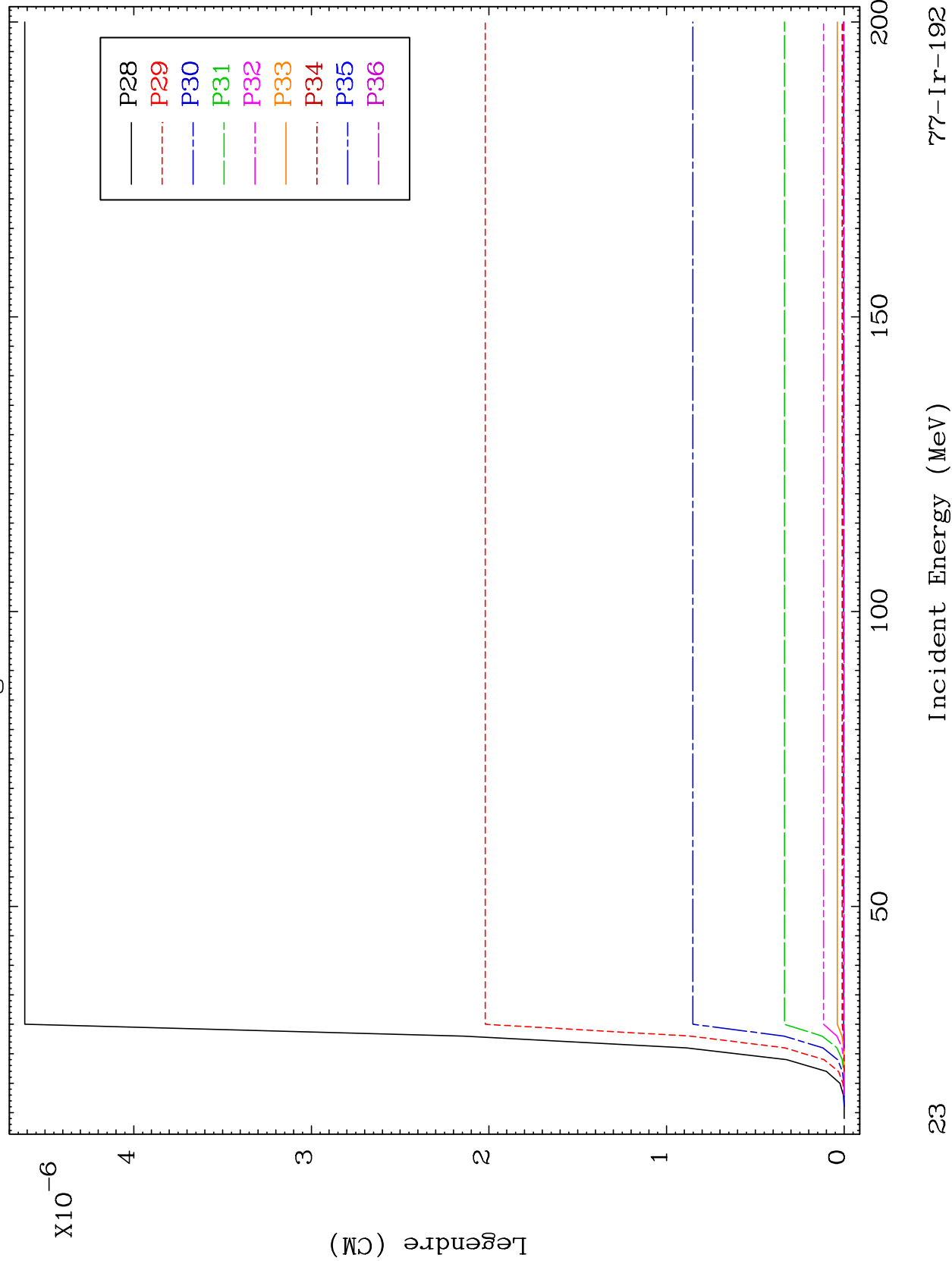
77-Ir-192



MAT 7728

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

77-Ir-192



23

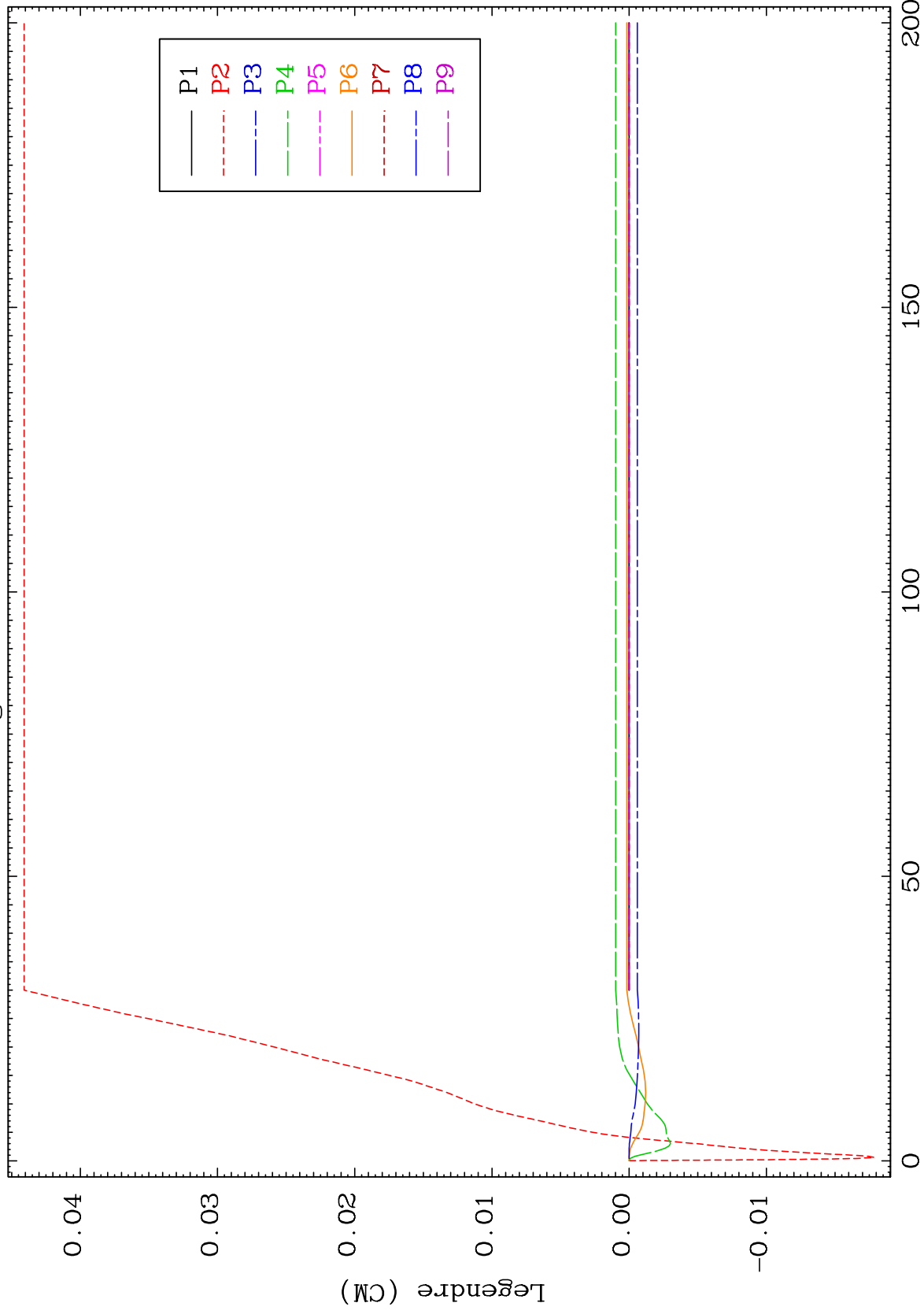
77-Ir-192



MAT 7728

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

77-Ir-192



77-Ir-192

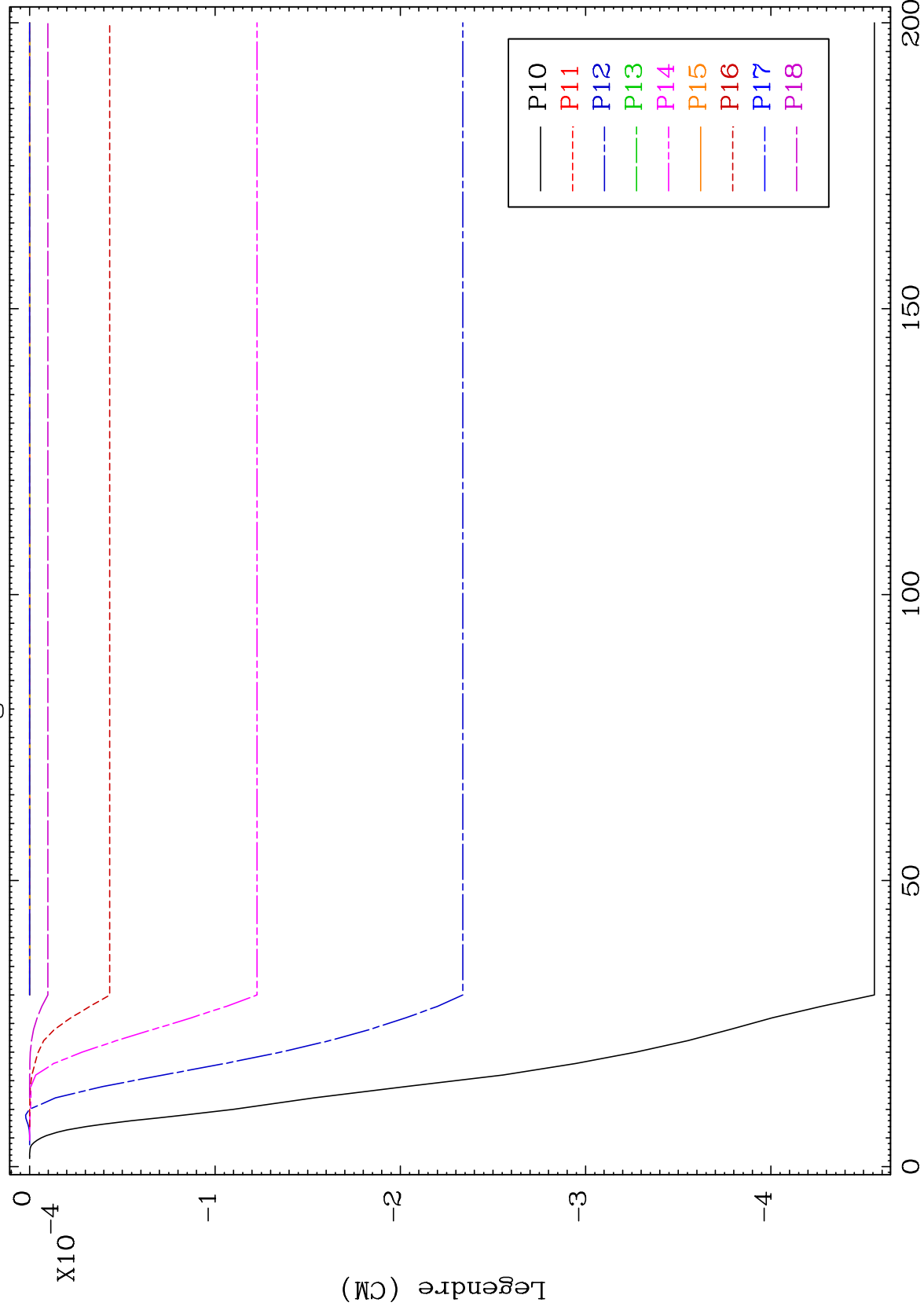
Incident Energy (MeV)

24

MAT 7728

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

77-Ir-192



25

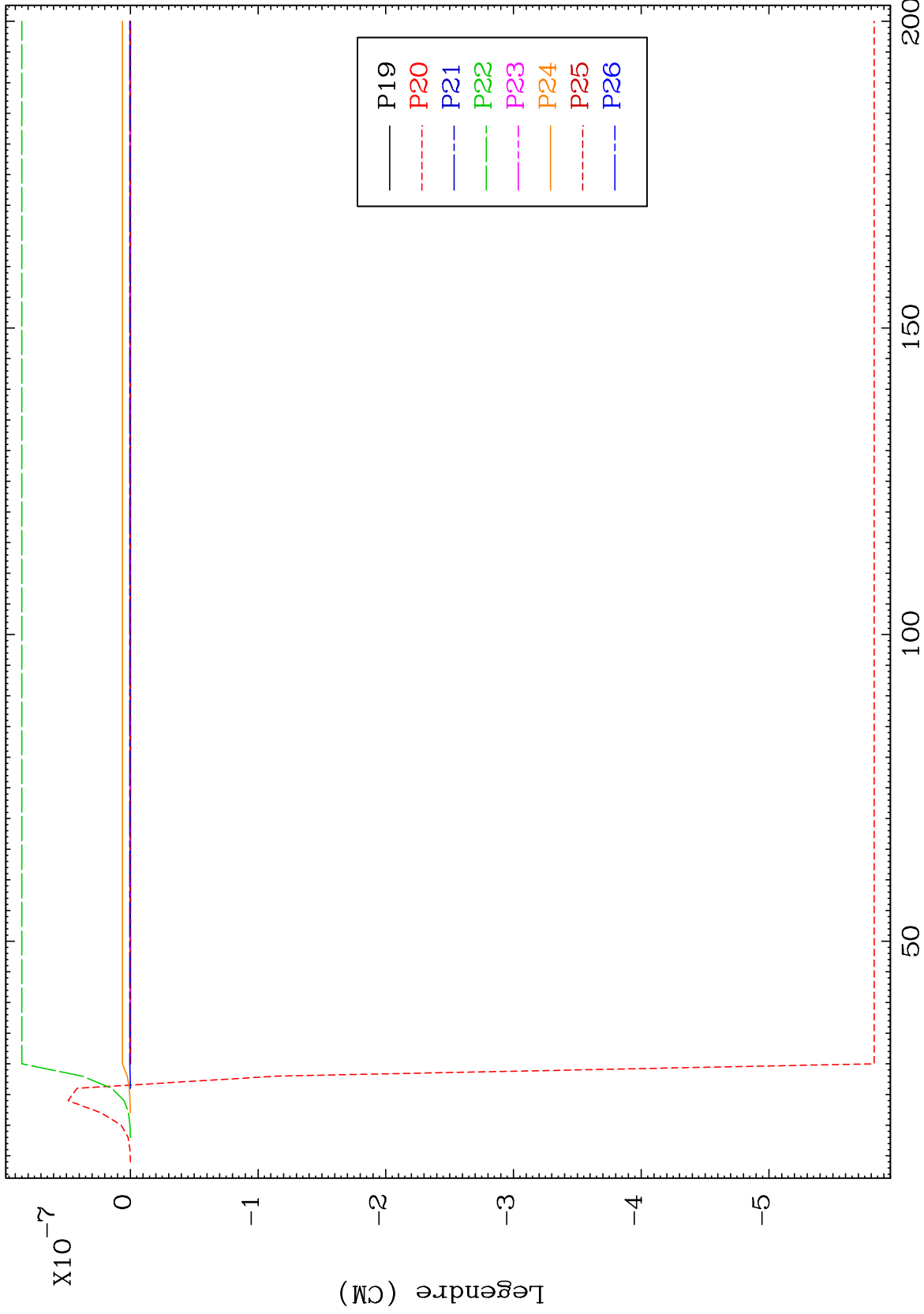
Incident Energy (MeV)

77-Ir-192

MAT 7728

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

77-Ir-192



26

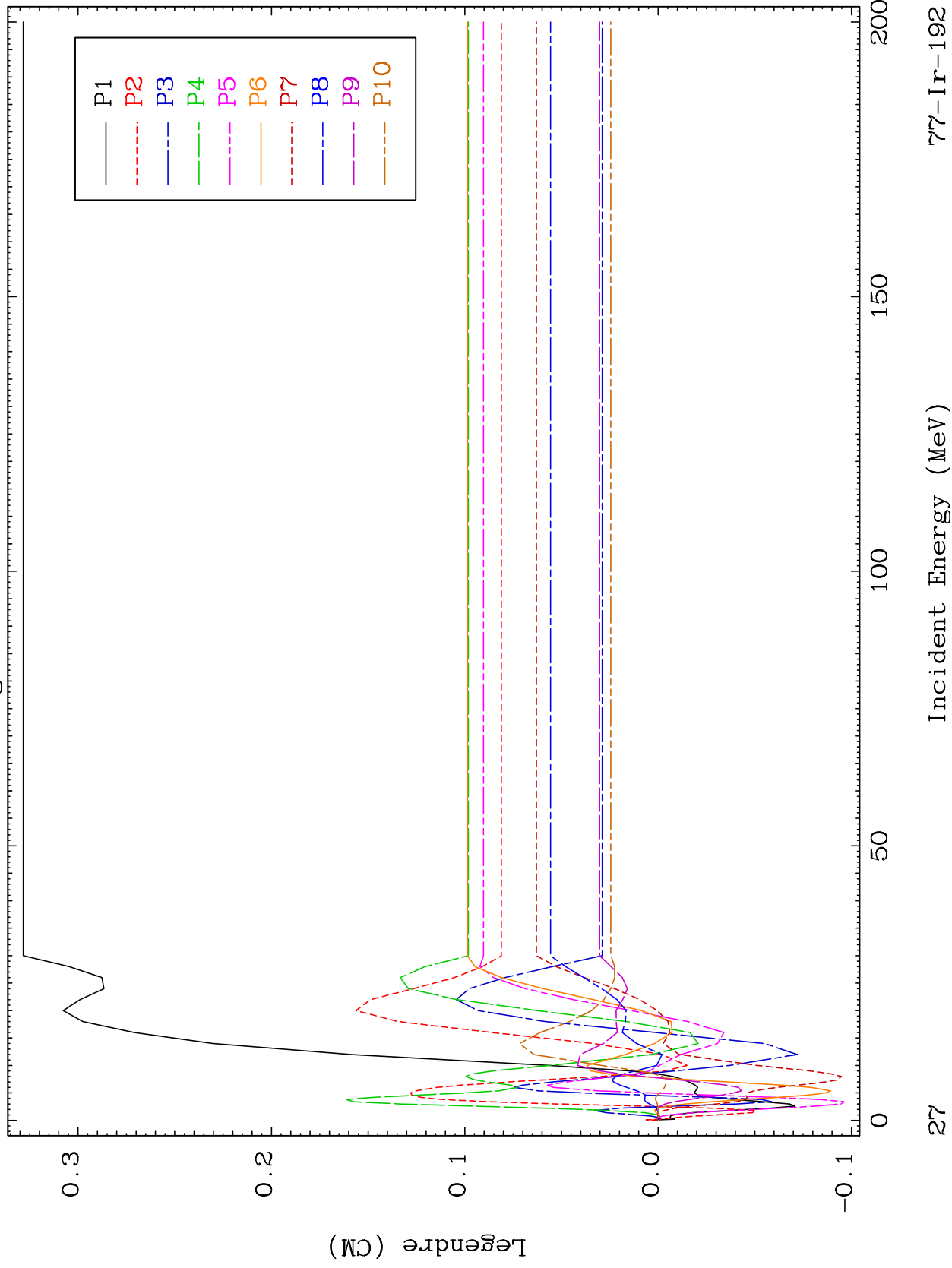
Incident Energy (MeV)

77-Ir-192

MAT 7728

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

77-Ir-192



77-Ir-192

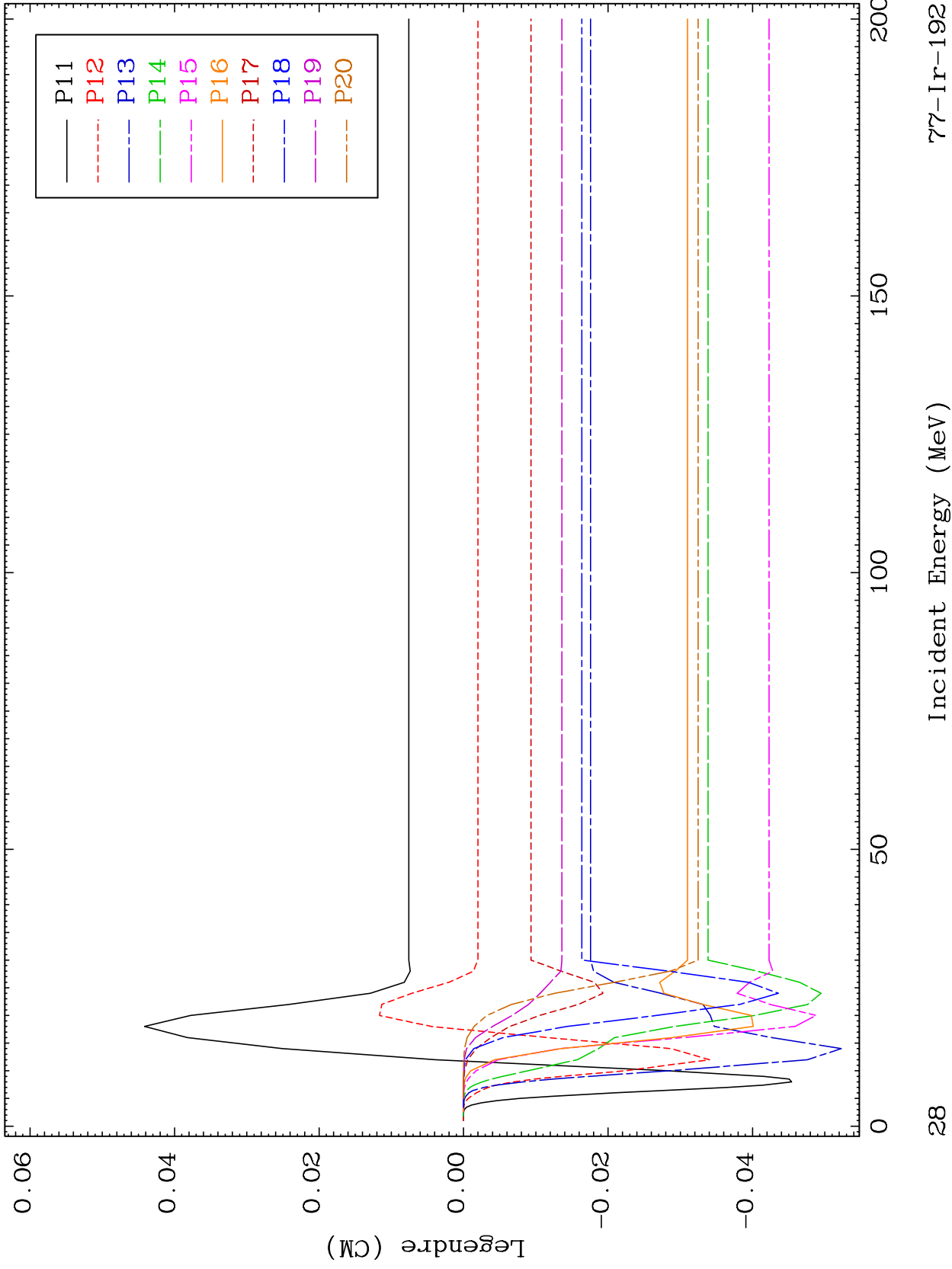
Incident Energy (MeV)

27

MAT 7728

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

77-Ir-192



77-Ir-192

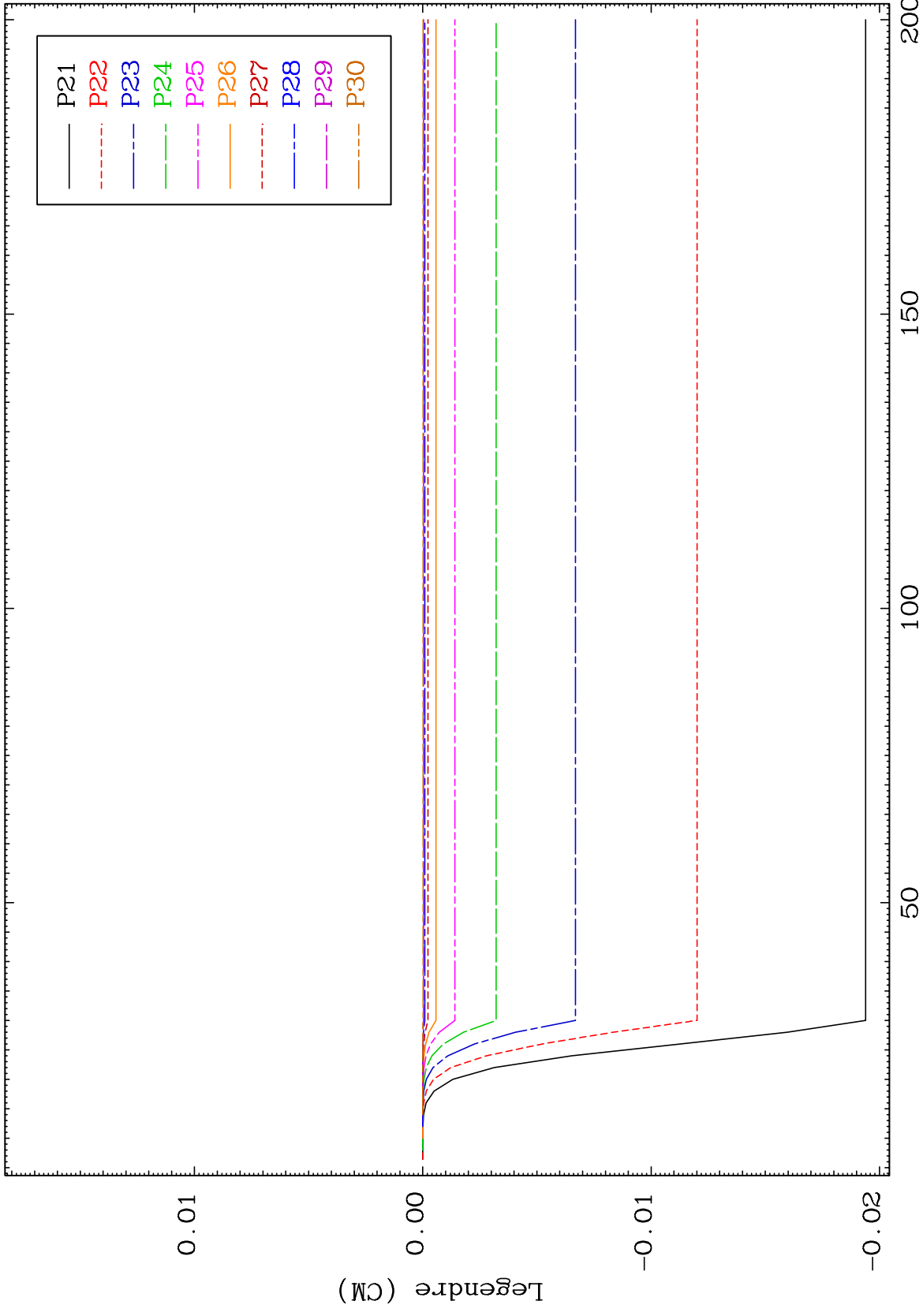
Incident Energy (MeV)

28

MAT 7728

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

77-Ir-192



29

Incident Energy (MeV)

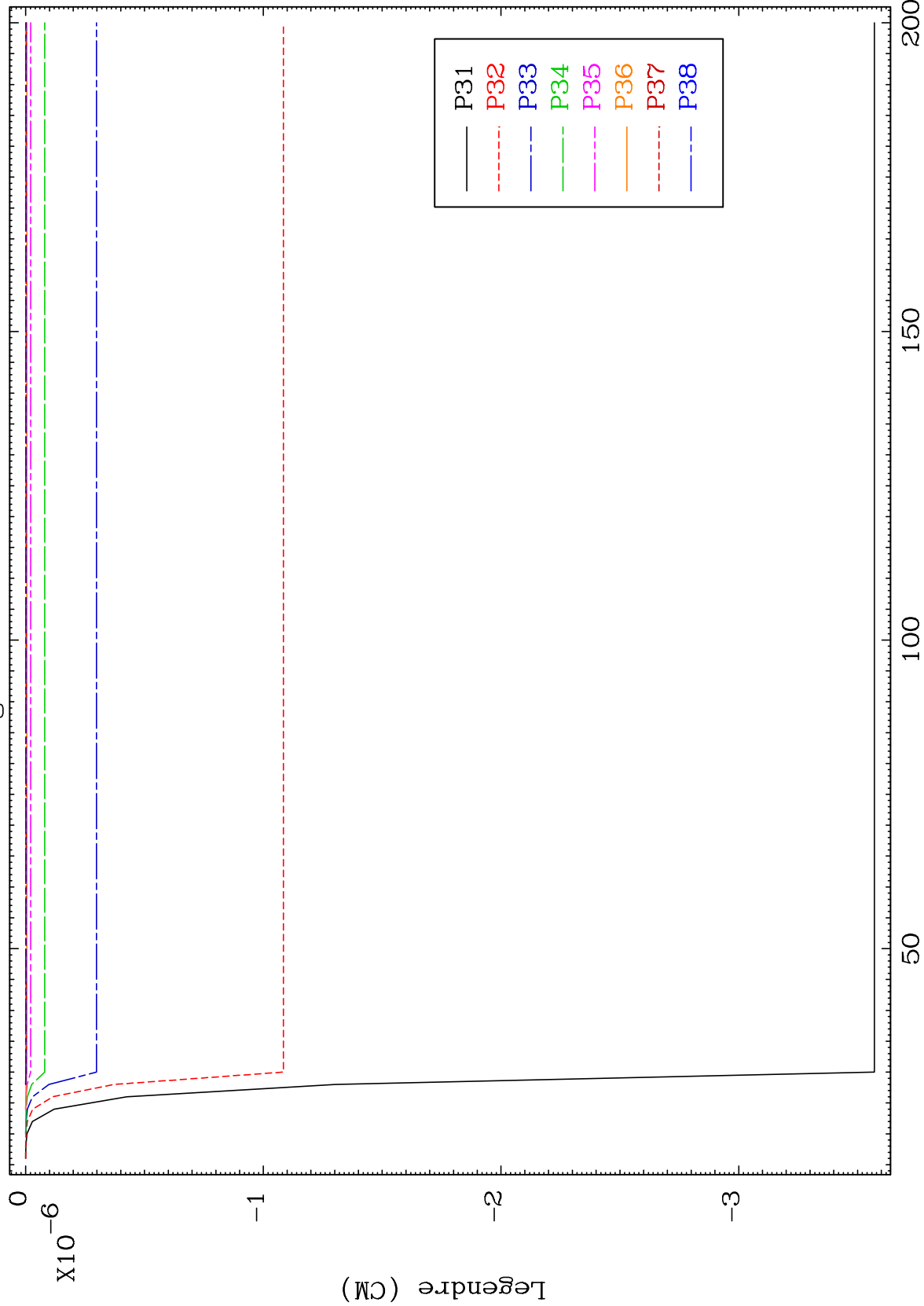
77-Ir-192

MAT 7728

MT= 53 (n,n') Level

77-Ir-192

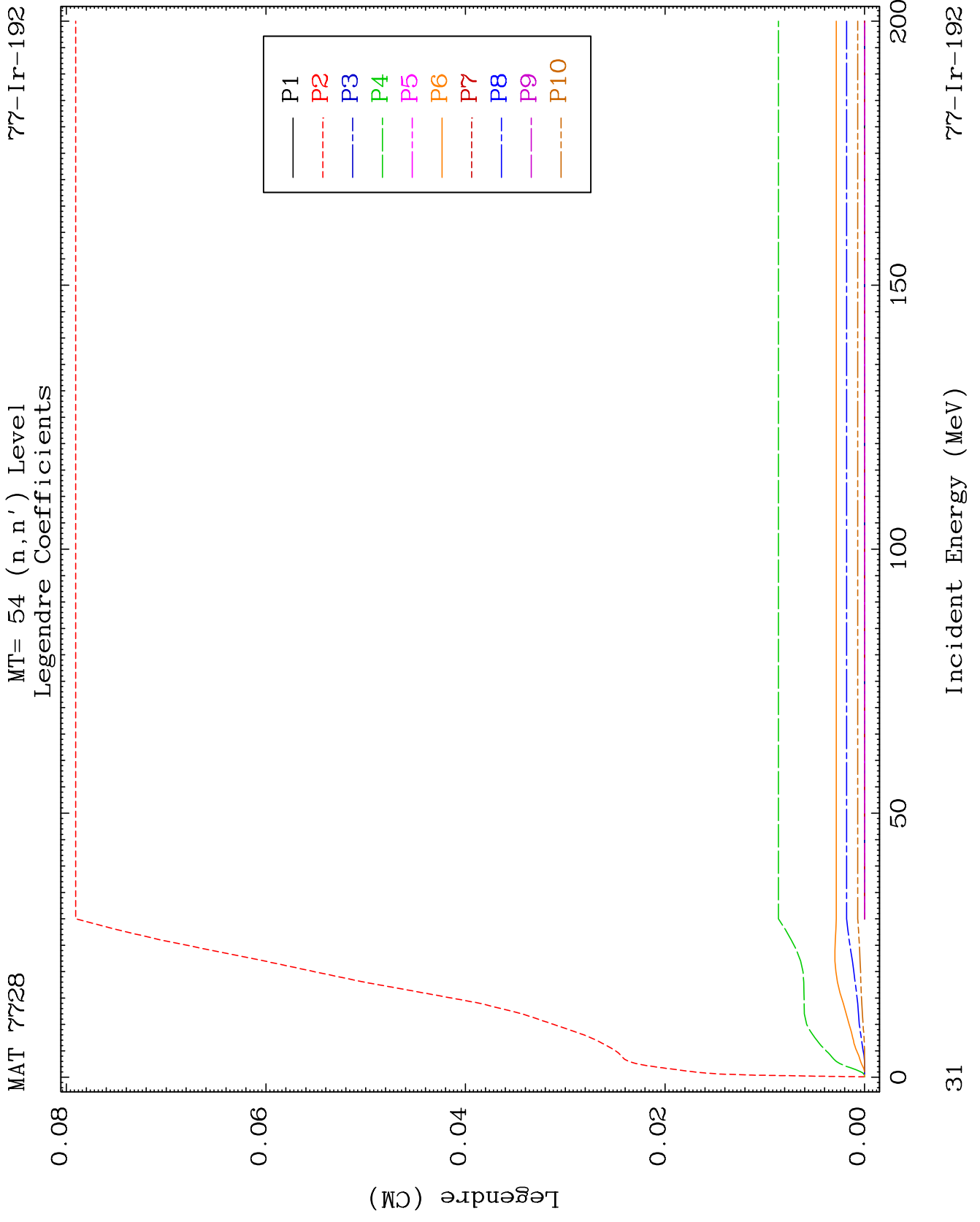
Legendre Coefficients



30

Incident Energy (MeV)

77-Ir-192

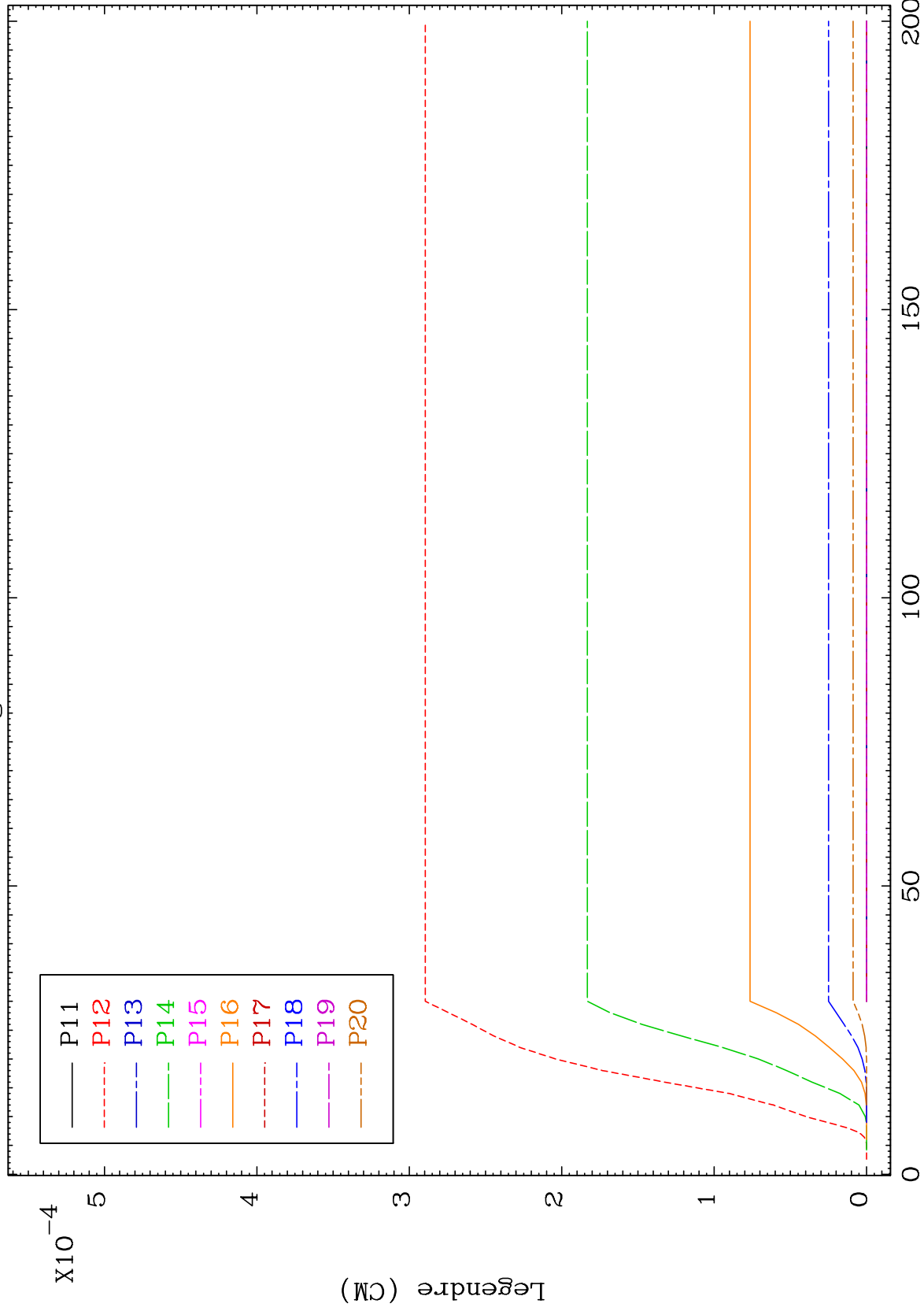




MAT 7728

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

77-Ir-192



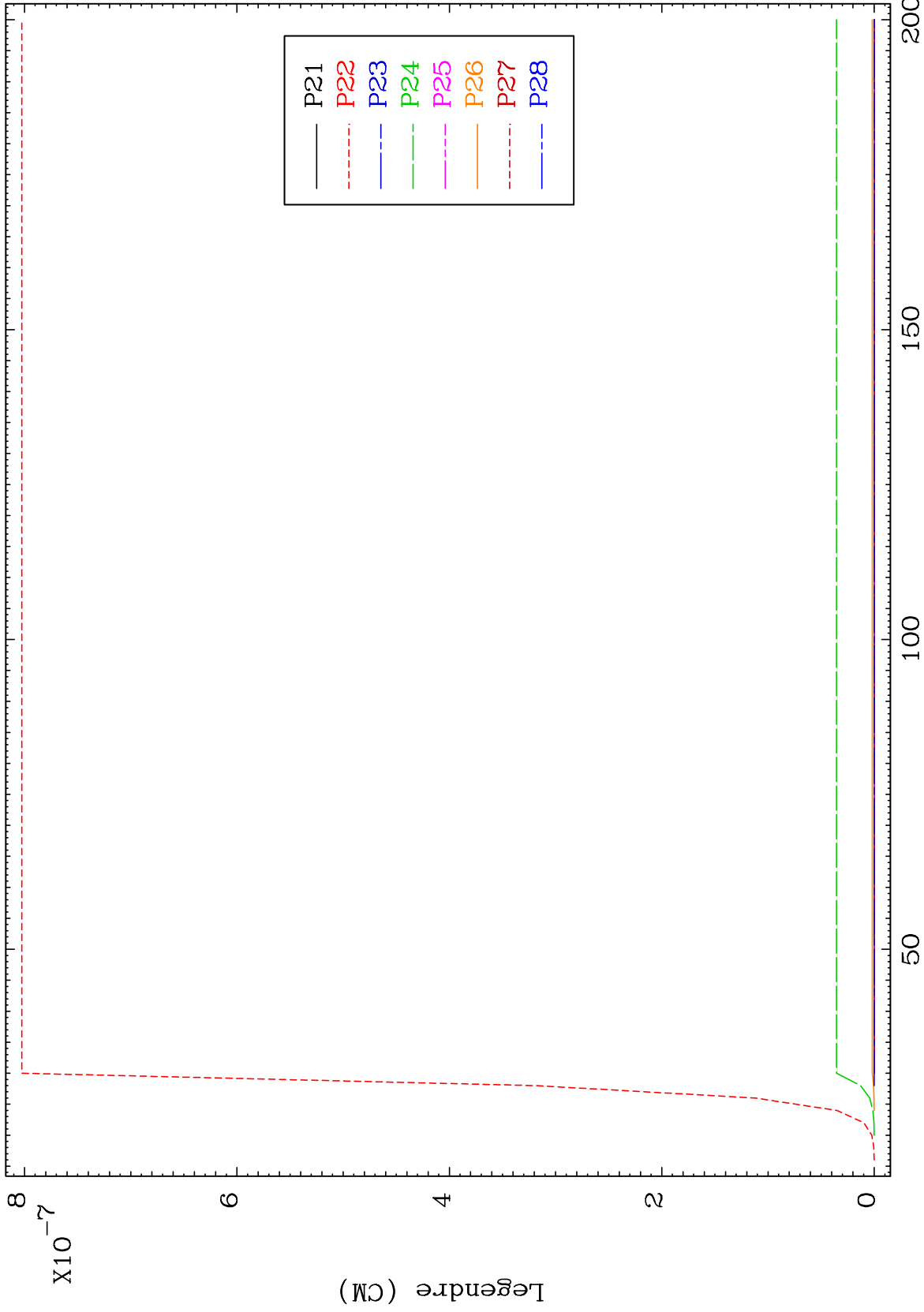
32

77-Ir-192

MAT 7728

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

77-Ir-192



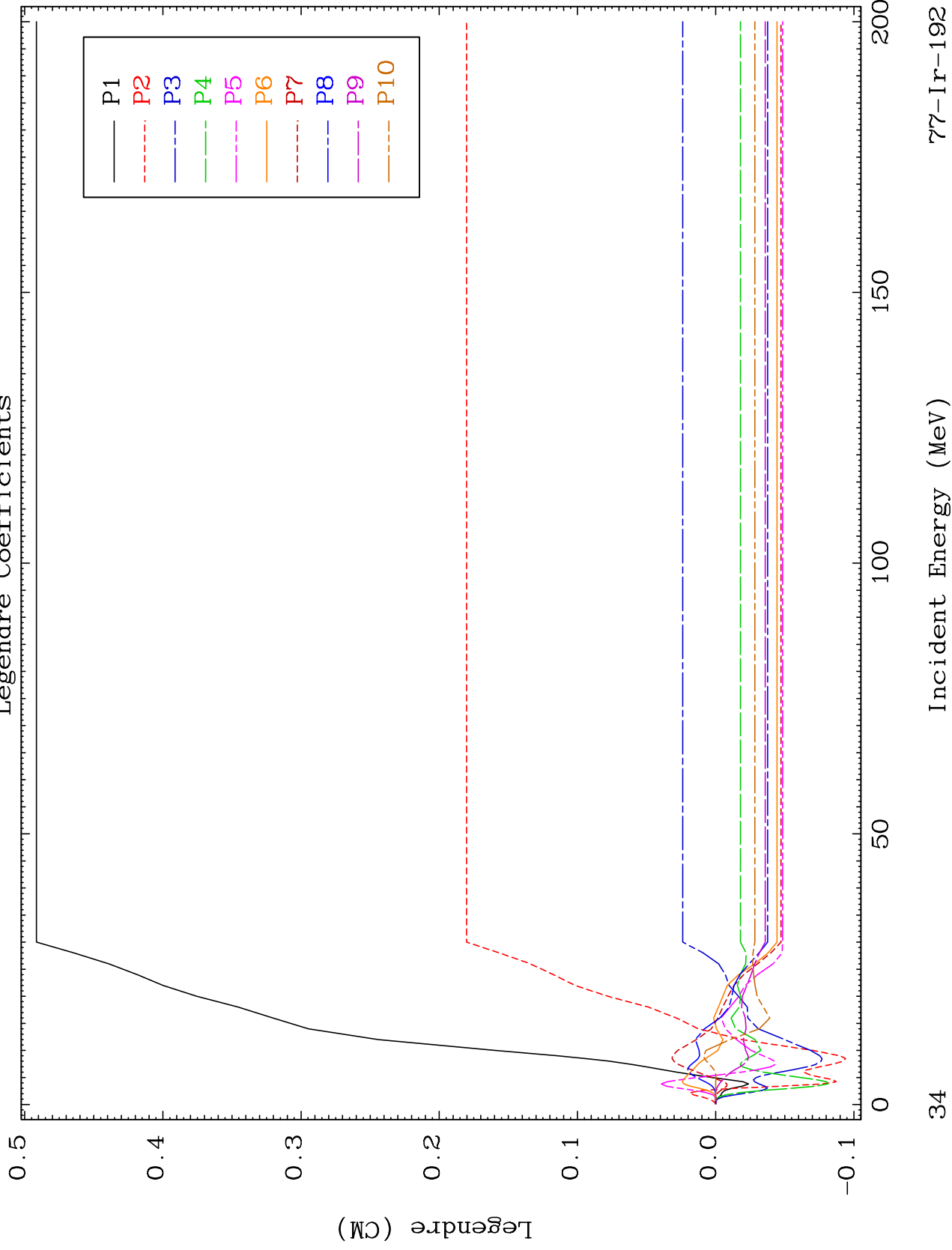
33

77-Ir-192

MAT 7728

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

77-Ir-192

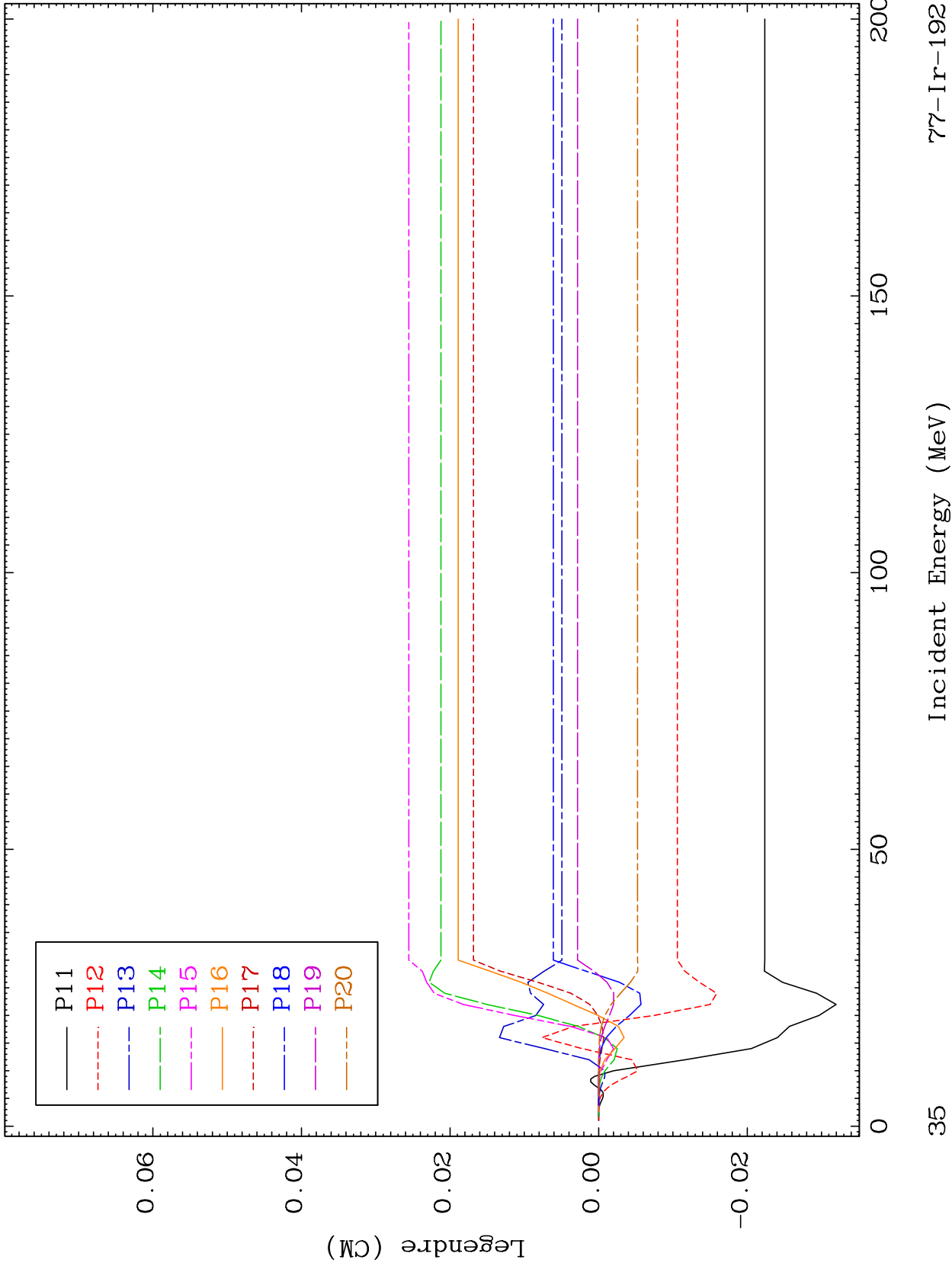


34

MAT 7728

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

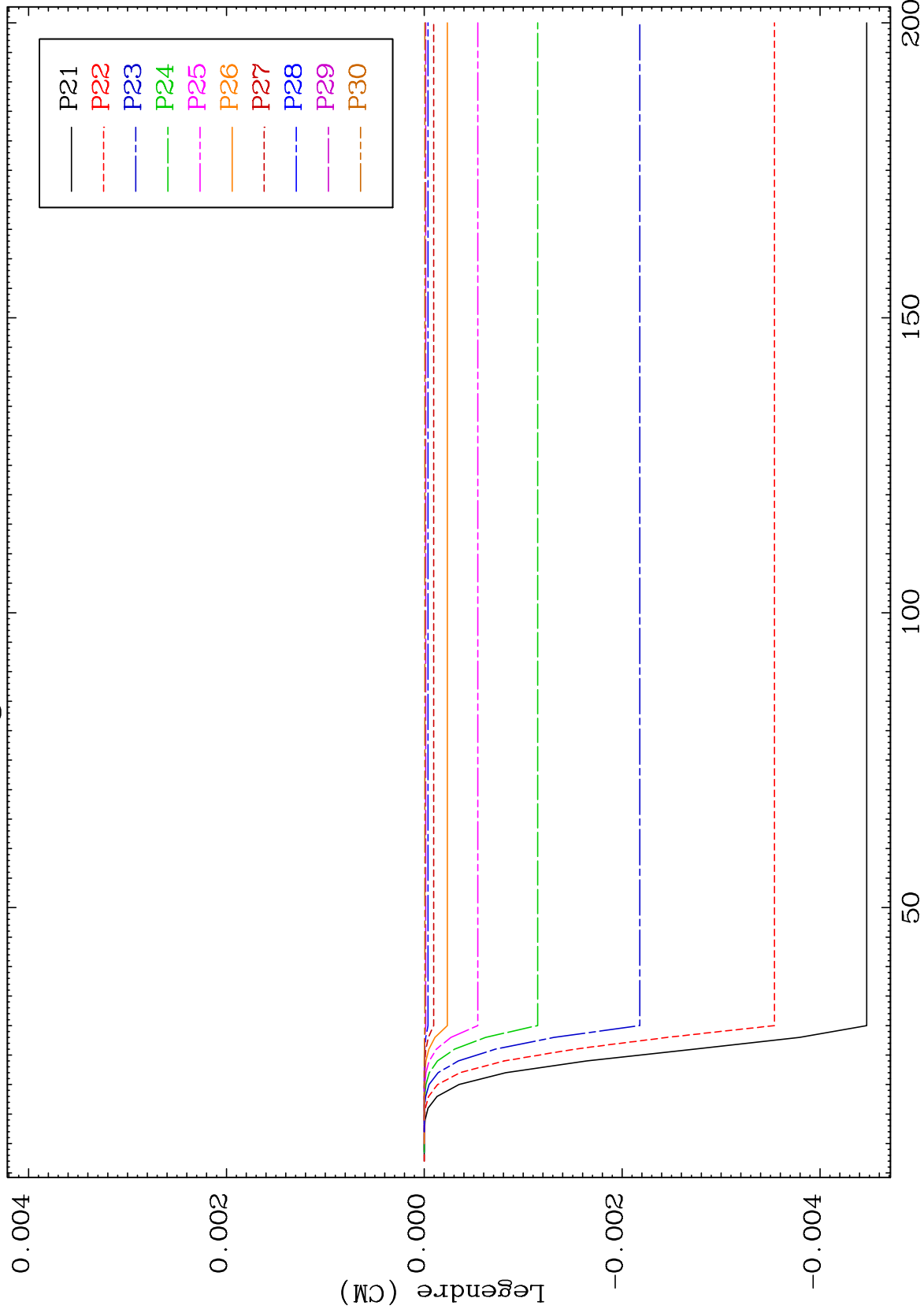
77-Ir-192



35

Incident Energy (MeV)

77-Ir-192

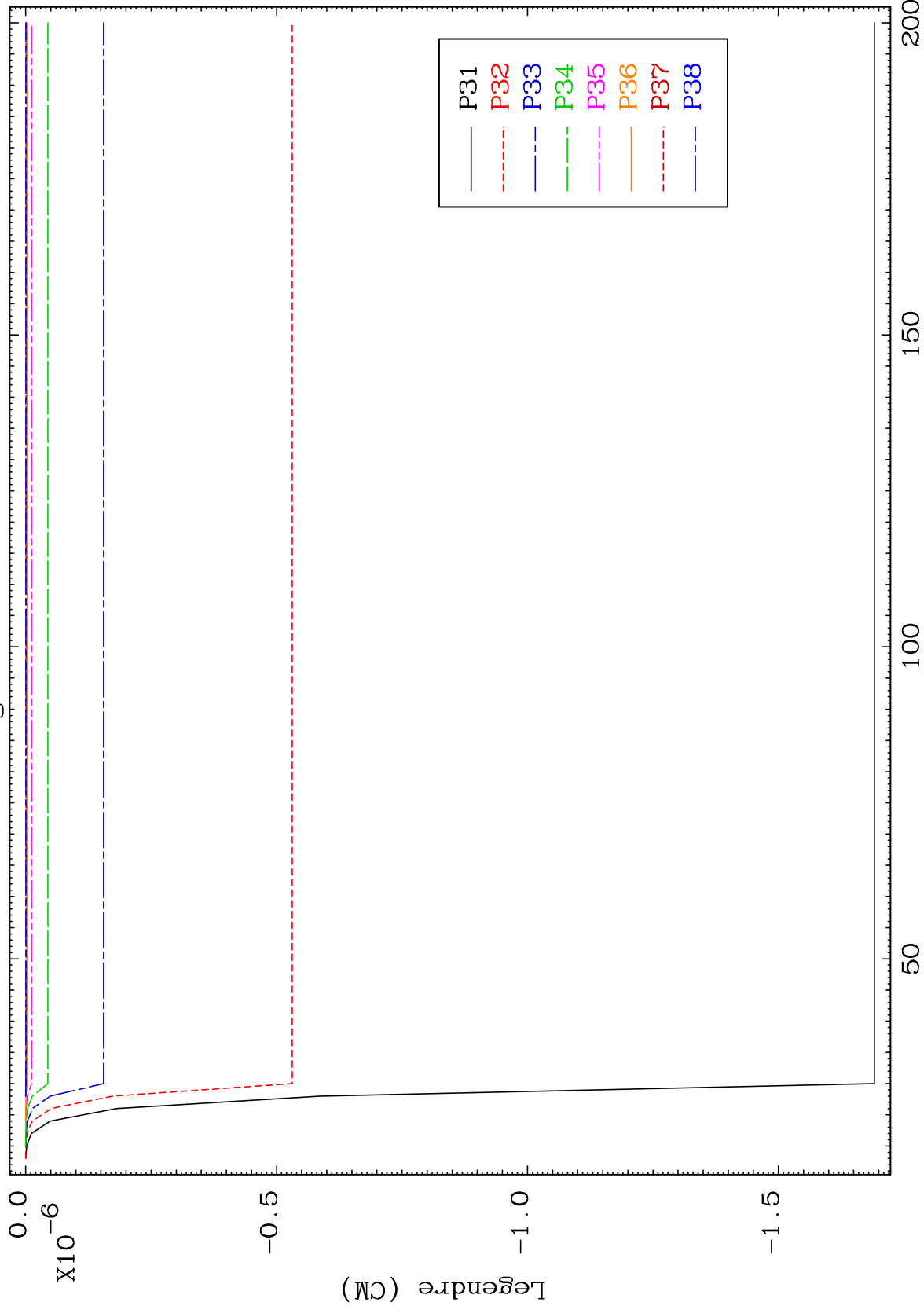


MAT 7728

MT= 55 (n,n') Level

77-Ir-192

Legendre Coefficients



37

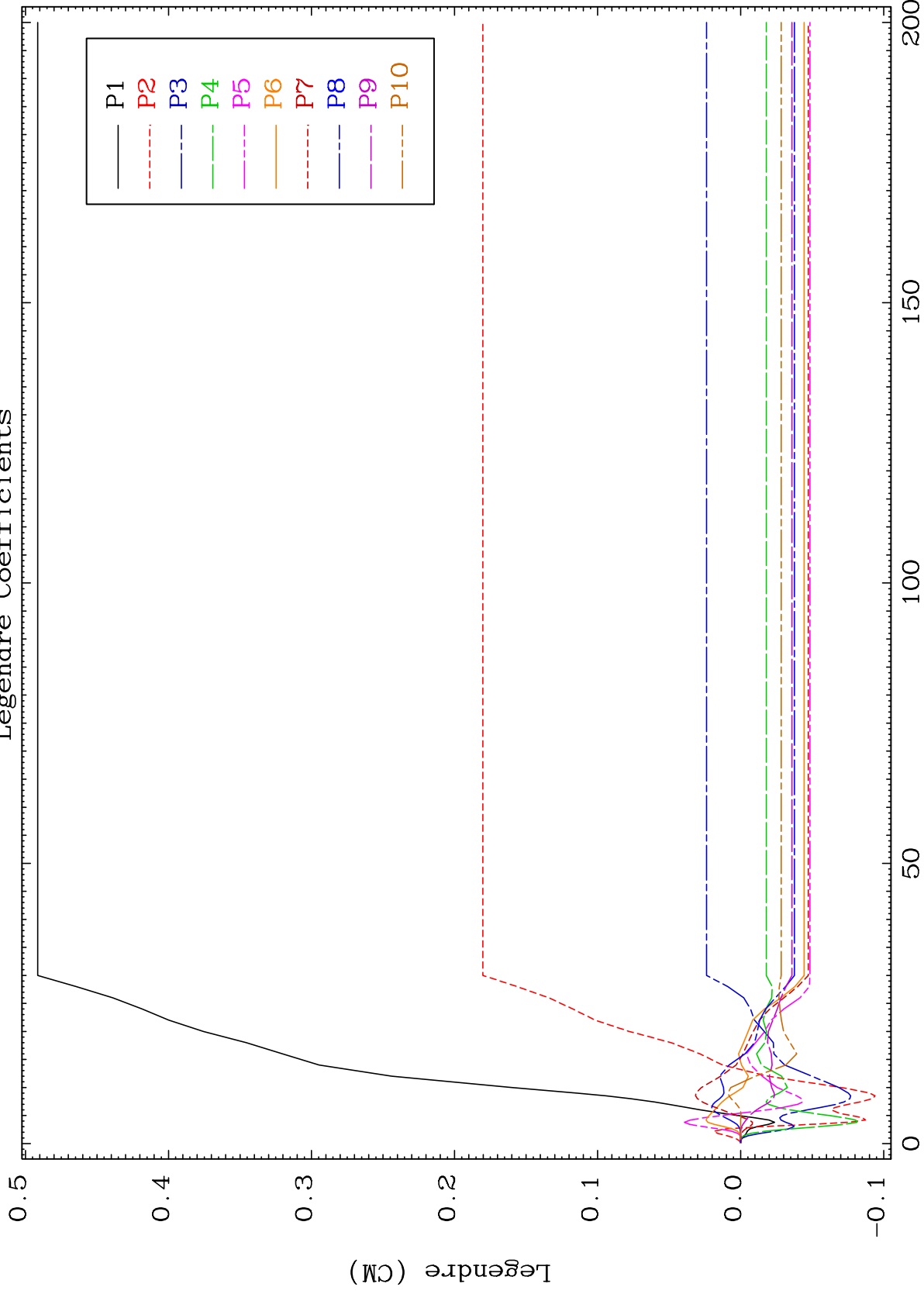
Incident Energy (MeV)

77-Ir-192

MAT 7728

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

77-Ir-192



77-Ir-192

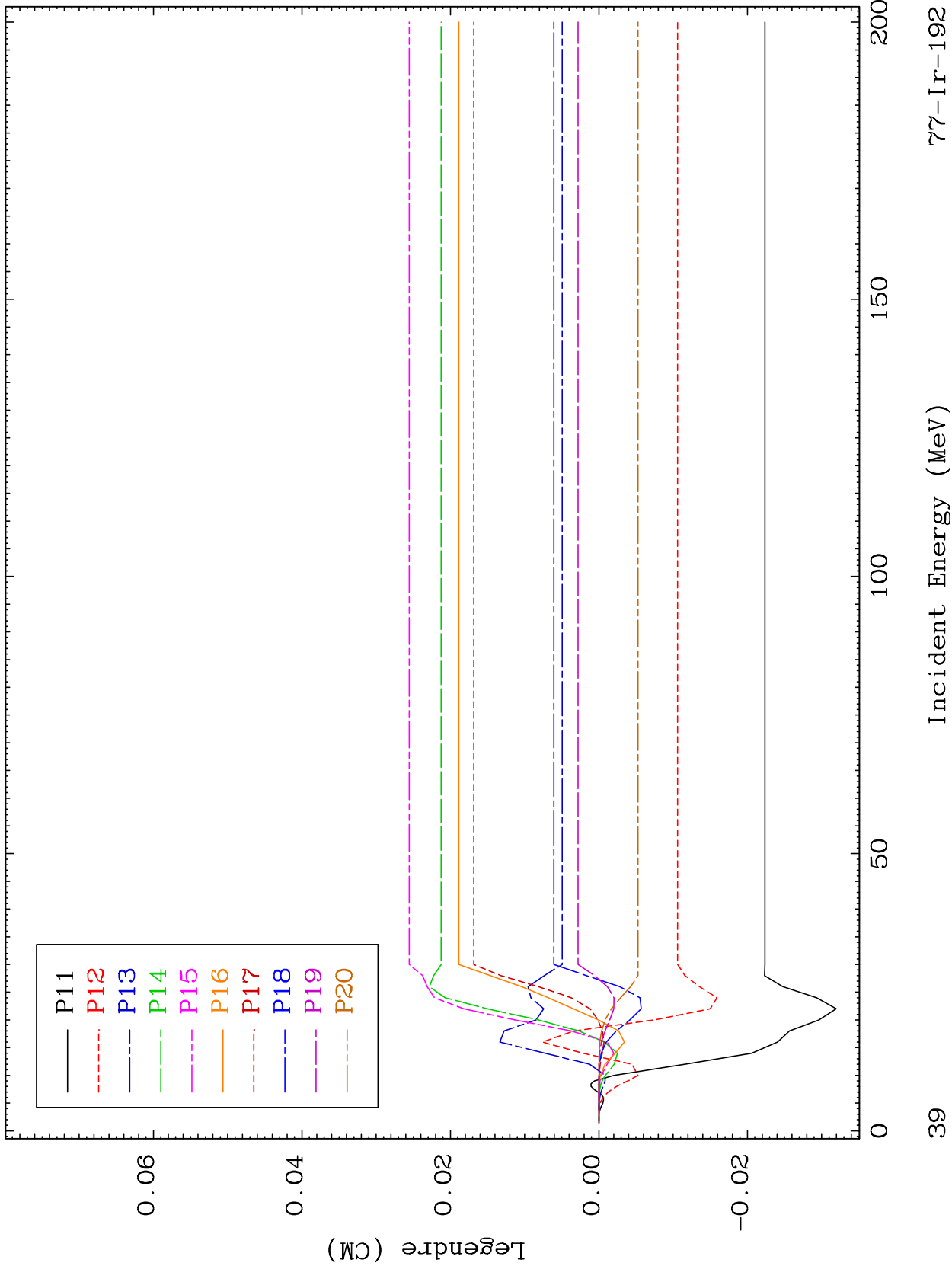
Incident Energy (MeV)

38

MAT 7728

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

77-Ir-192



39

Incident Energy (MeV)

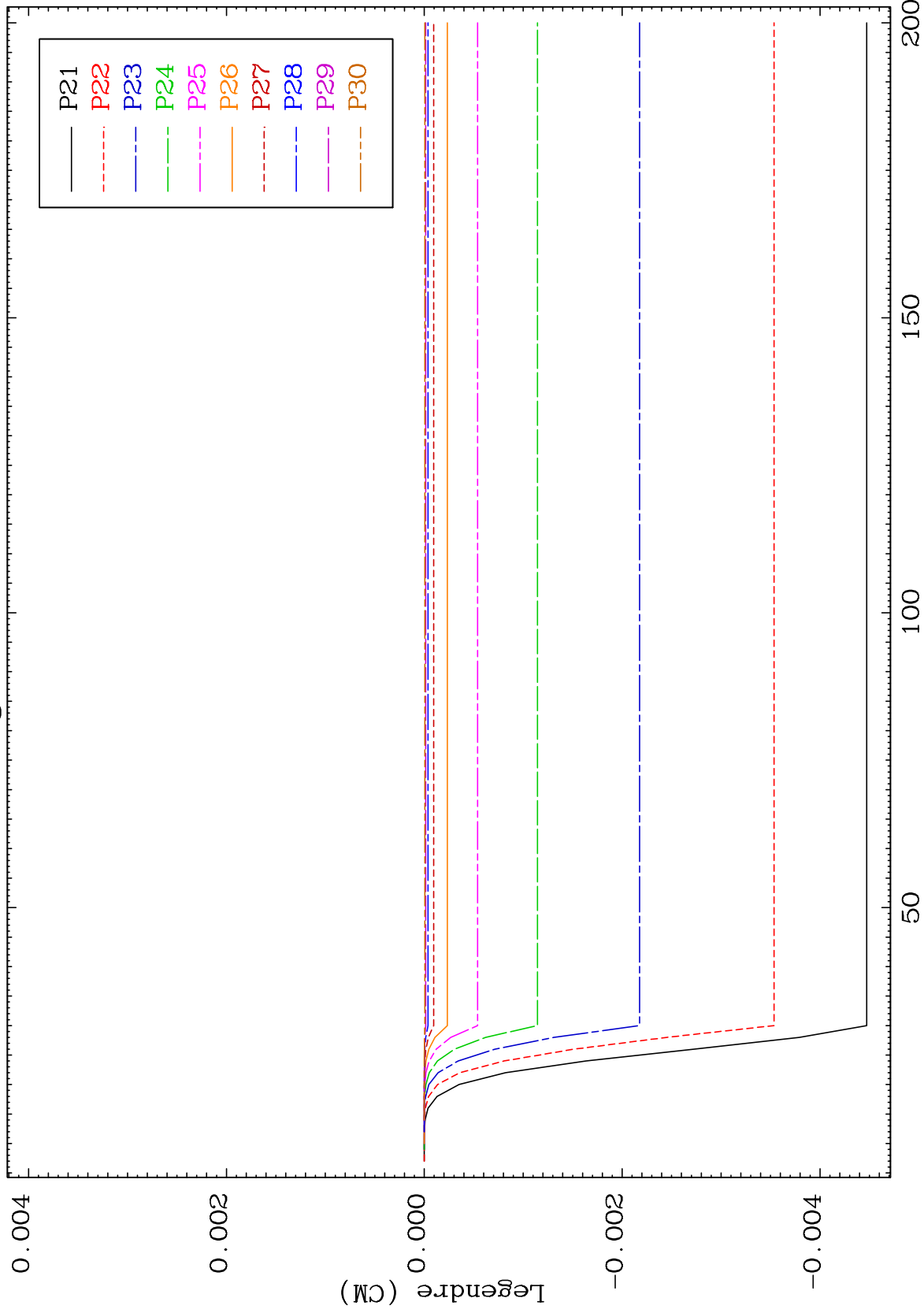
77-Ir-192



MAT 7728

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

77-Ir-192



40

Incident Energy (MeV)

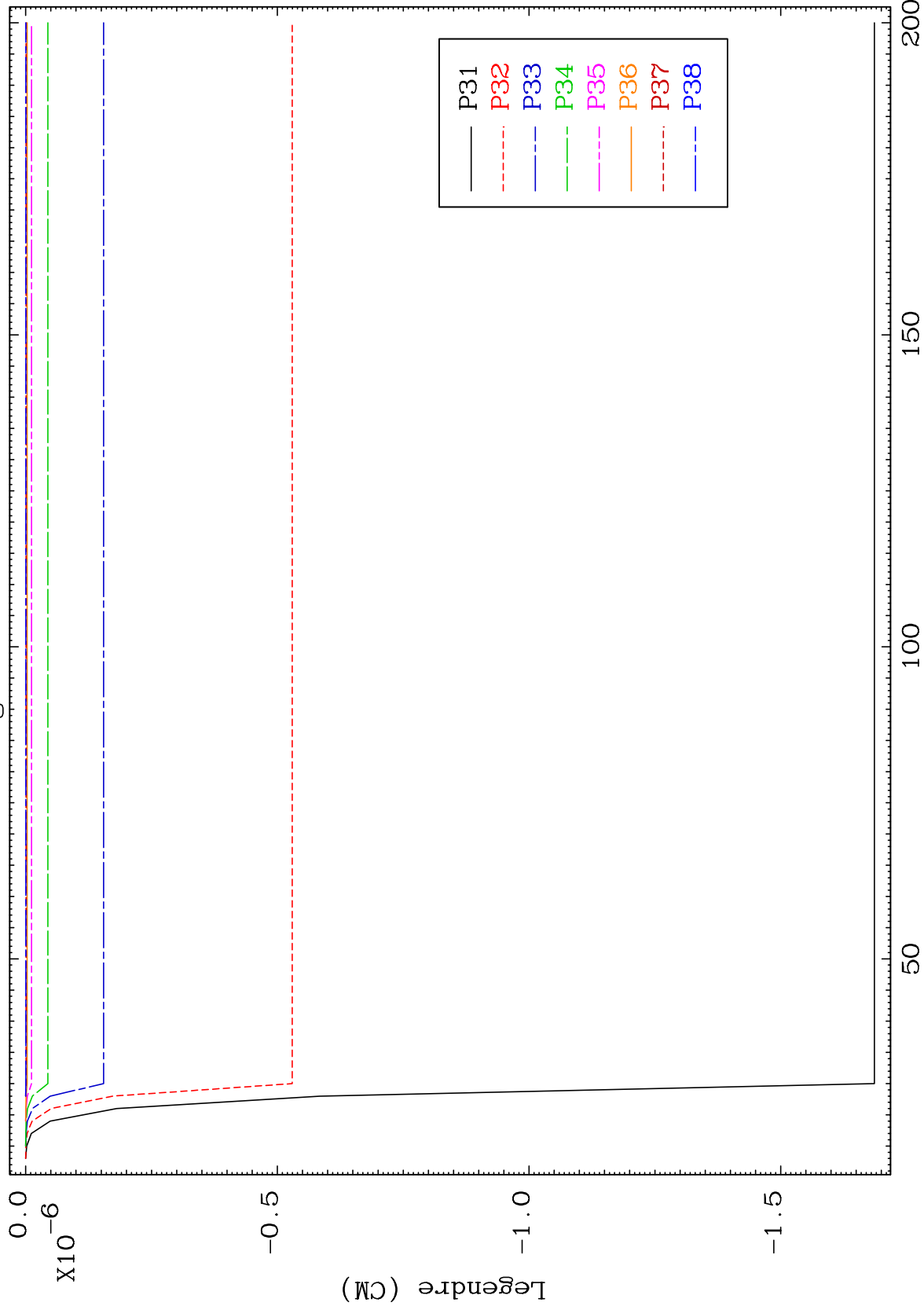
77-Ir-192

MAT 7728

MT= 56 (n,n') Level

77-Ir-192

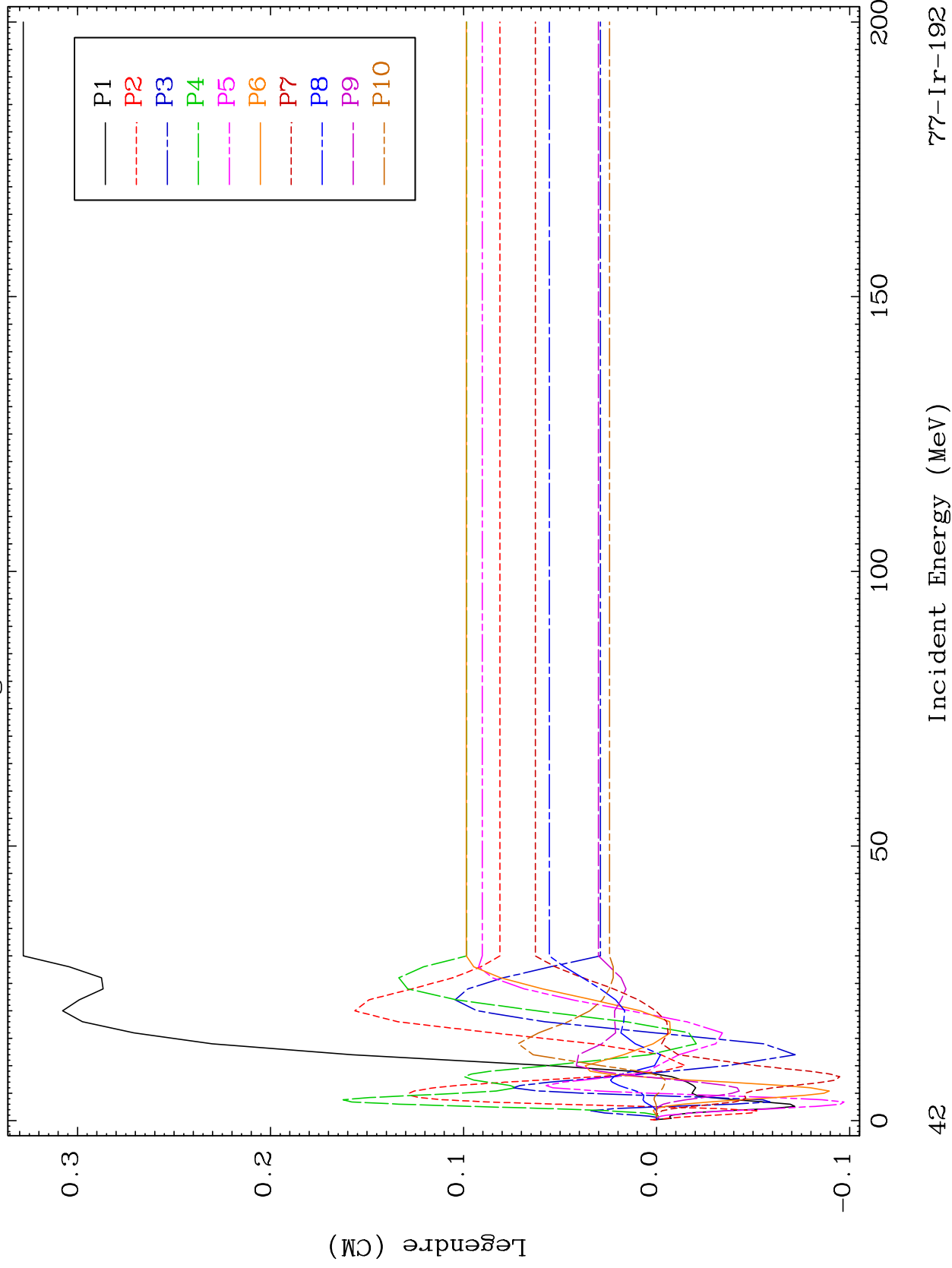
Legendre Coefficients



MAT 7728

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

77-Ir-192



77-Ir-192

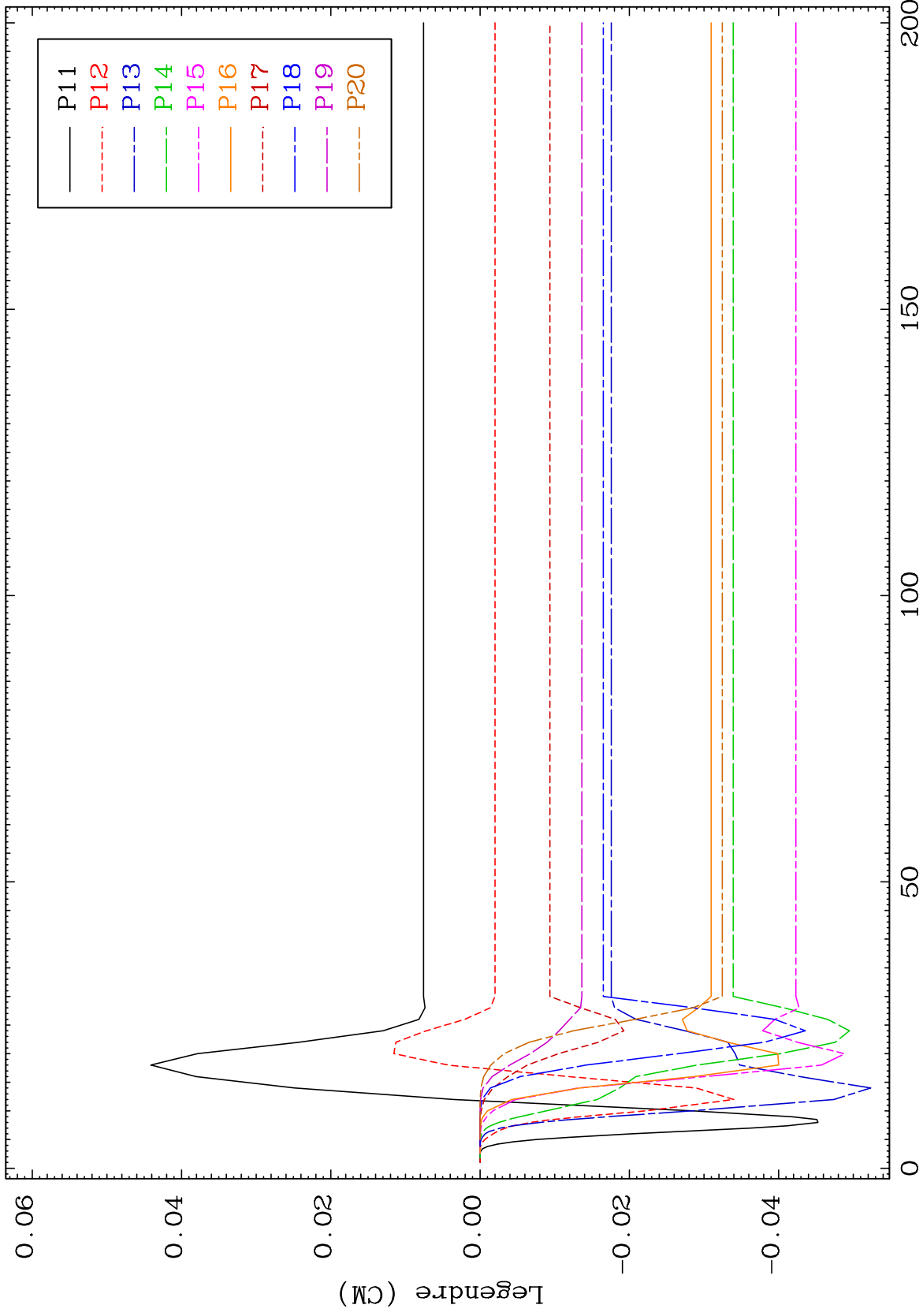
Incident Energy (MeV)

42

MAT 7728

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

77-Ir-192



43

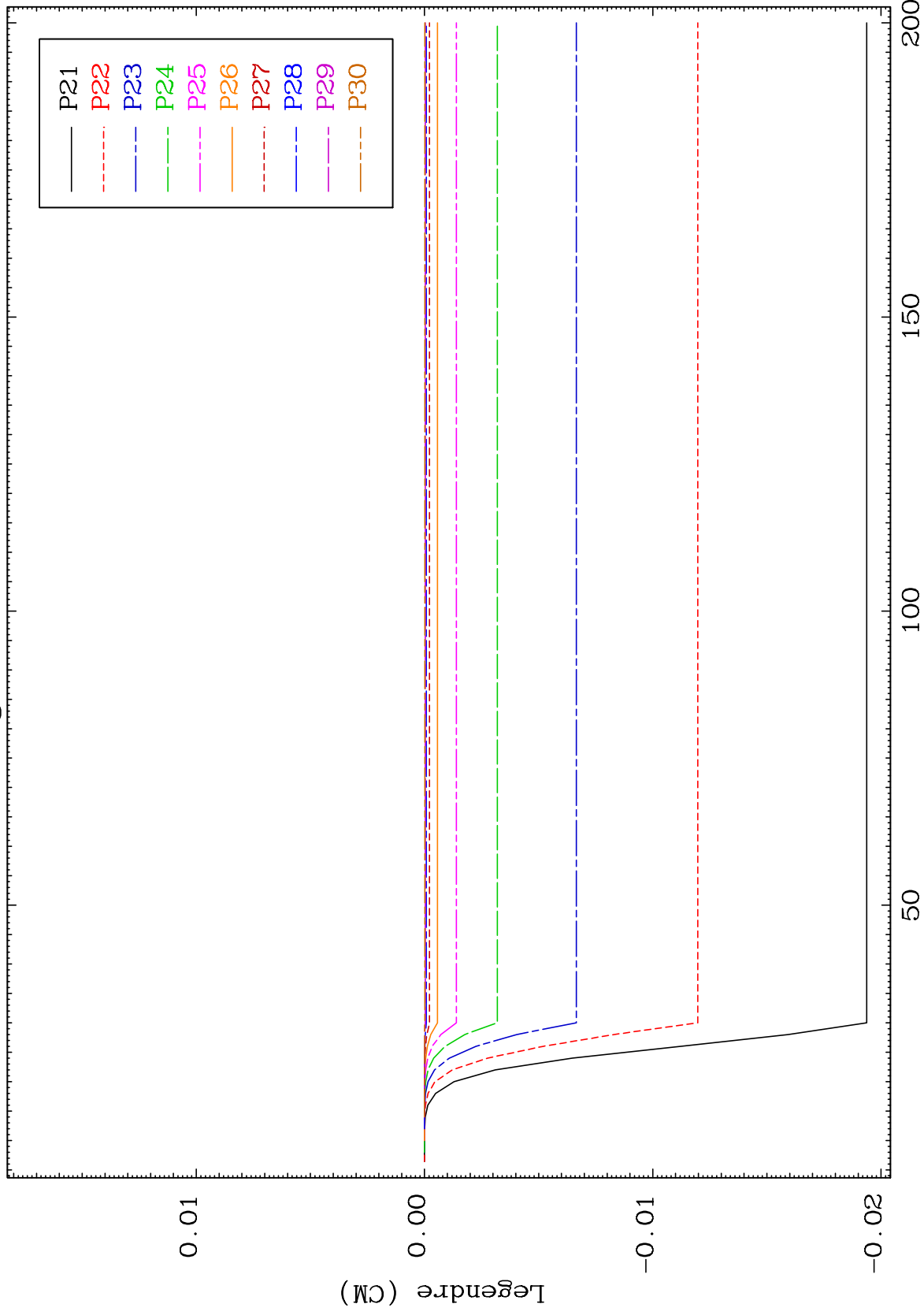
Incident Energy (MeV)

77-Ir-192

MAT 7728

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

77-Ir-192



44

Incident Energy (MeV)

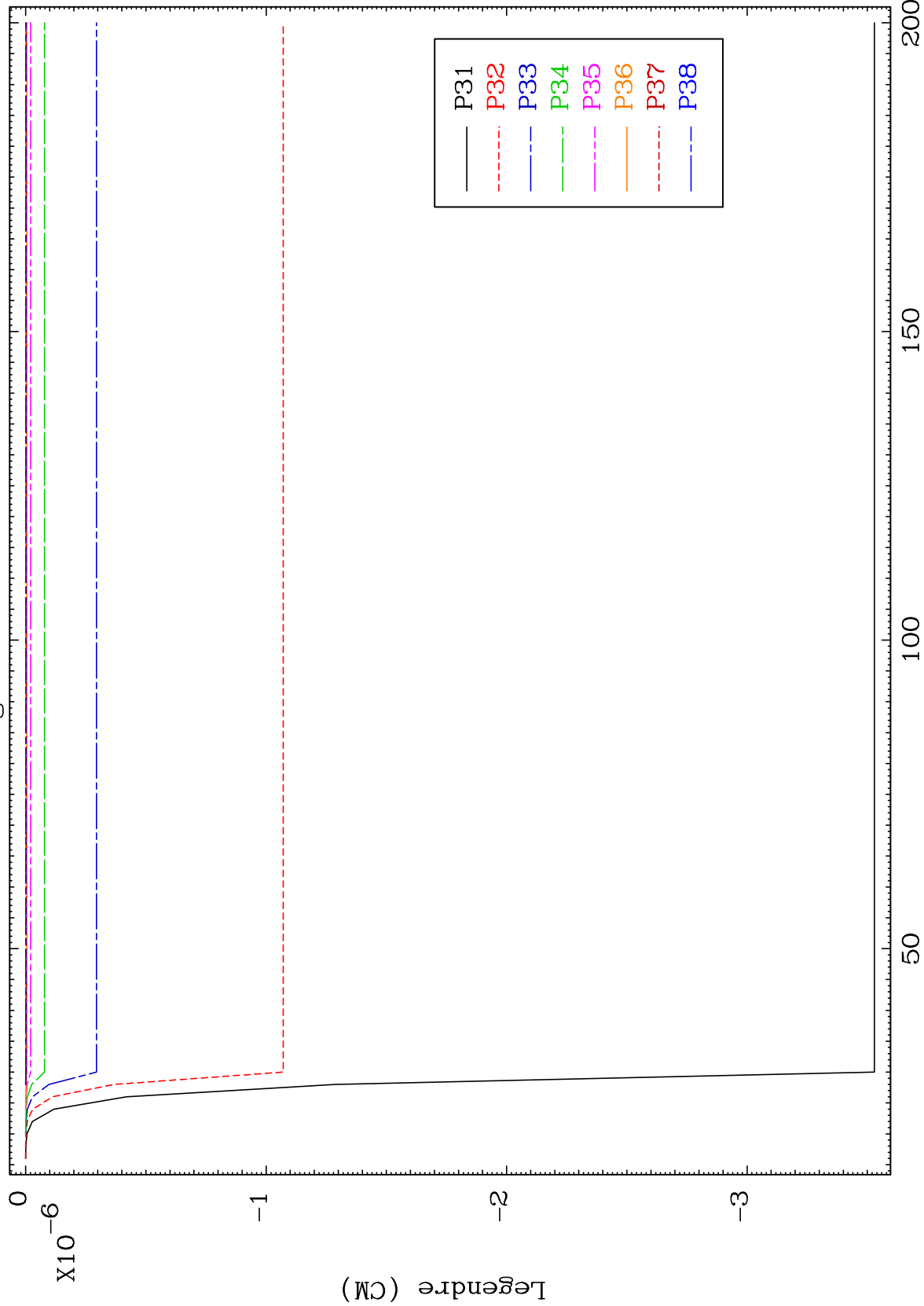
77-Ir-192

MAT 7728

MT= 57 (n,n') Level

77-Ir-192

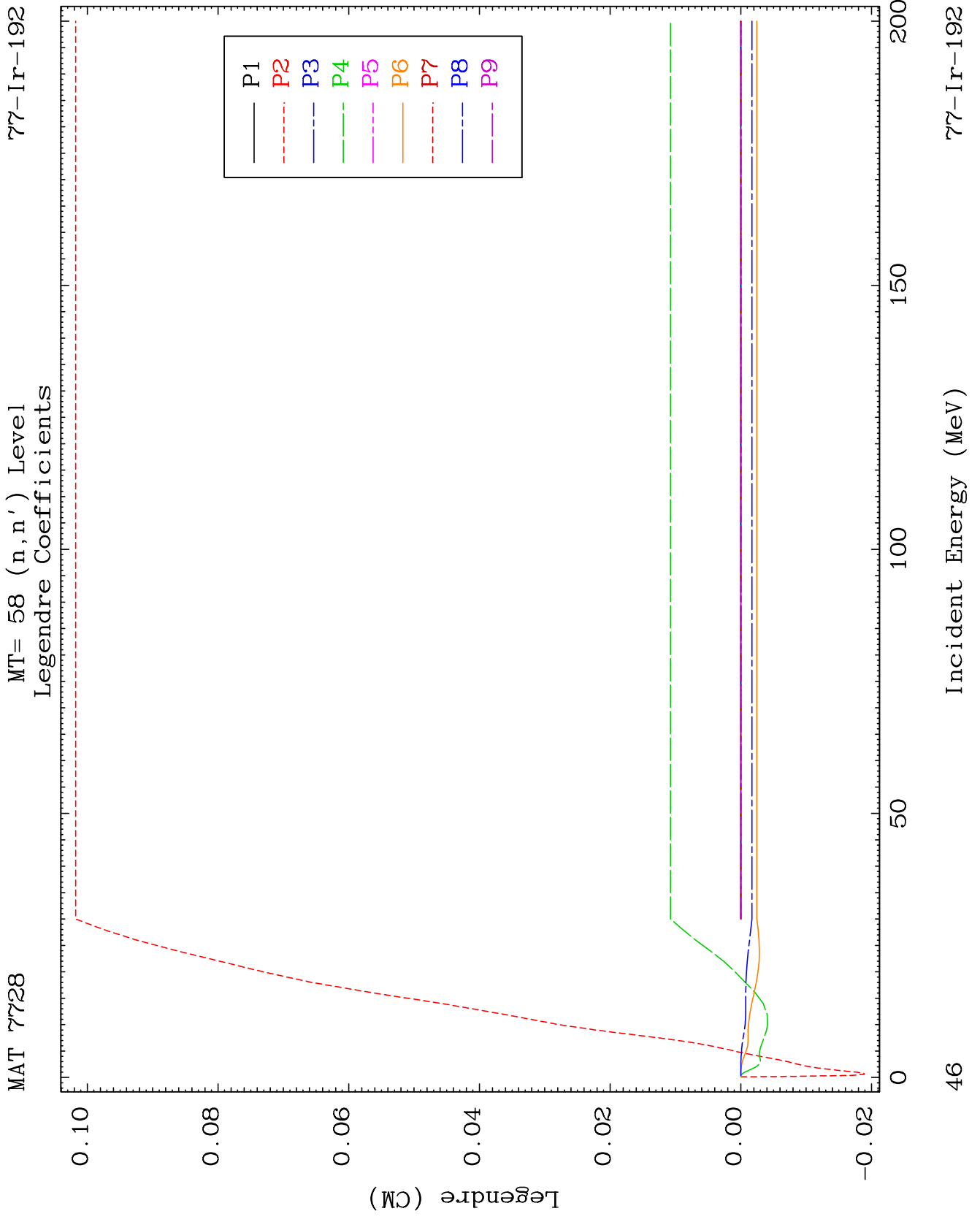
Legendre Coefficients



45

Incident Energy (MeV)

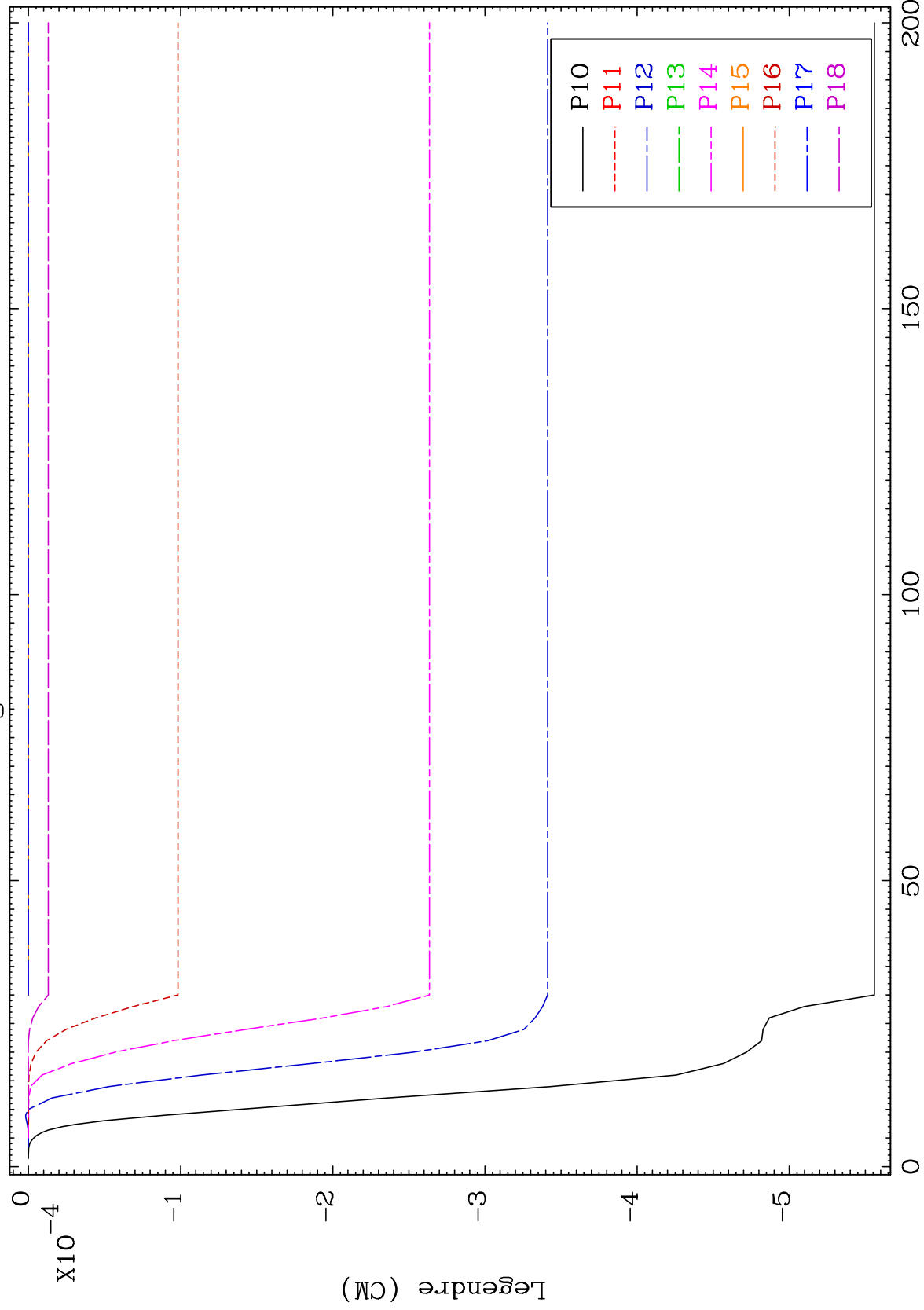
77-Ir-192



MAT 7728

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

77-Ir-192



47

Incident Energy (MeV)

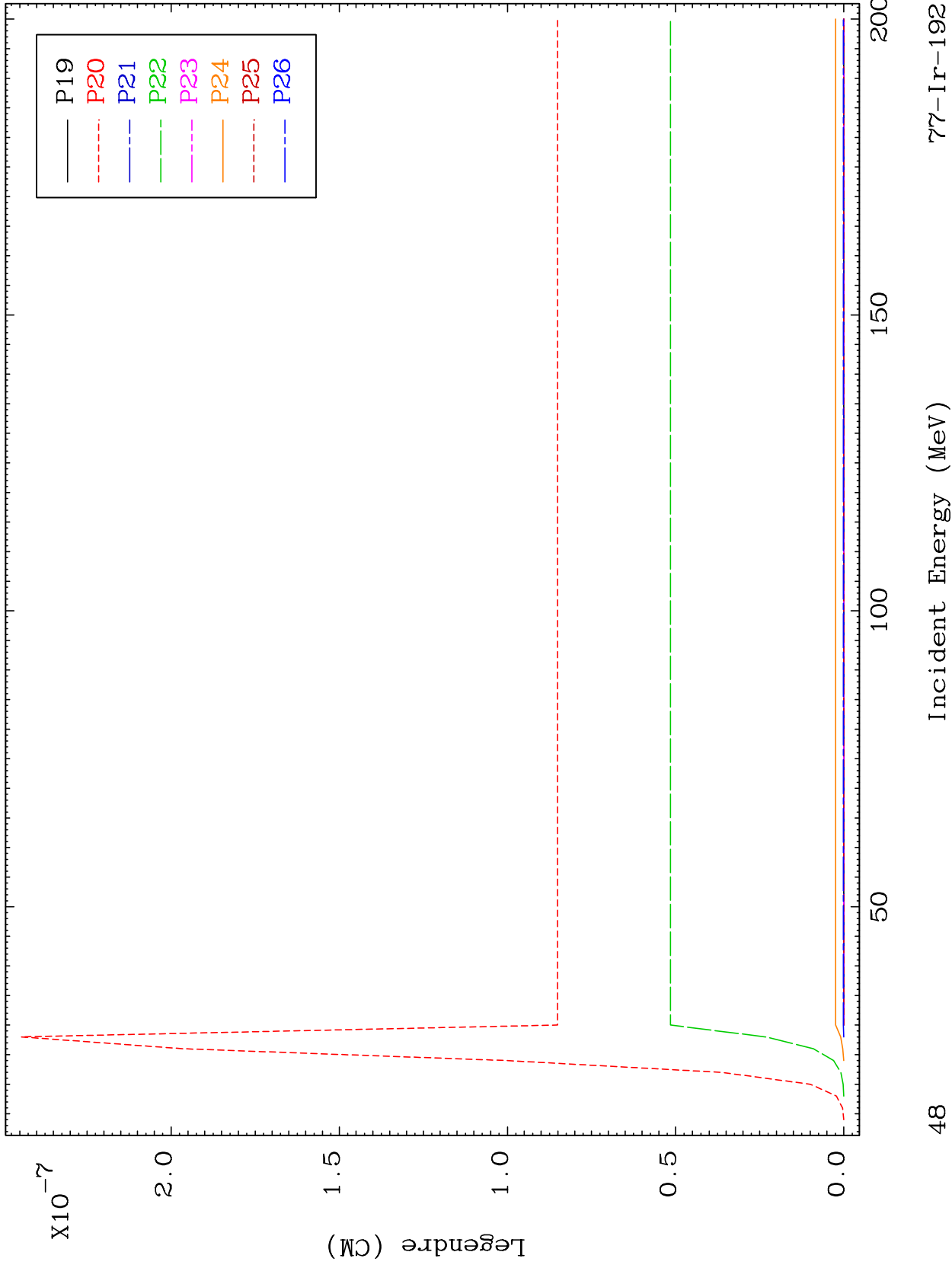
77-Ir-192



MAT 7728

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

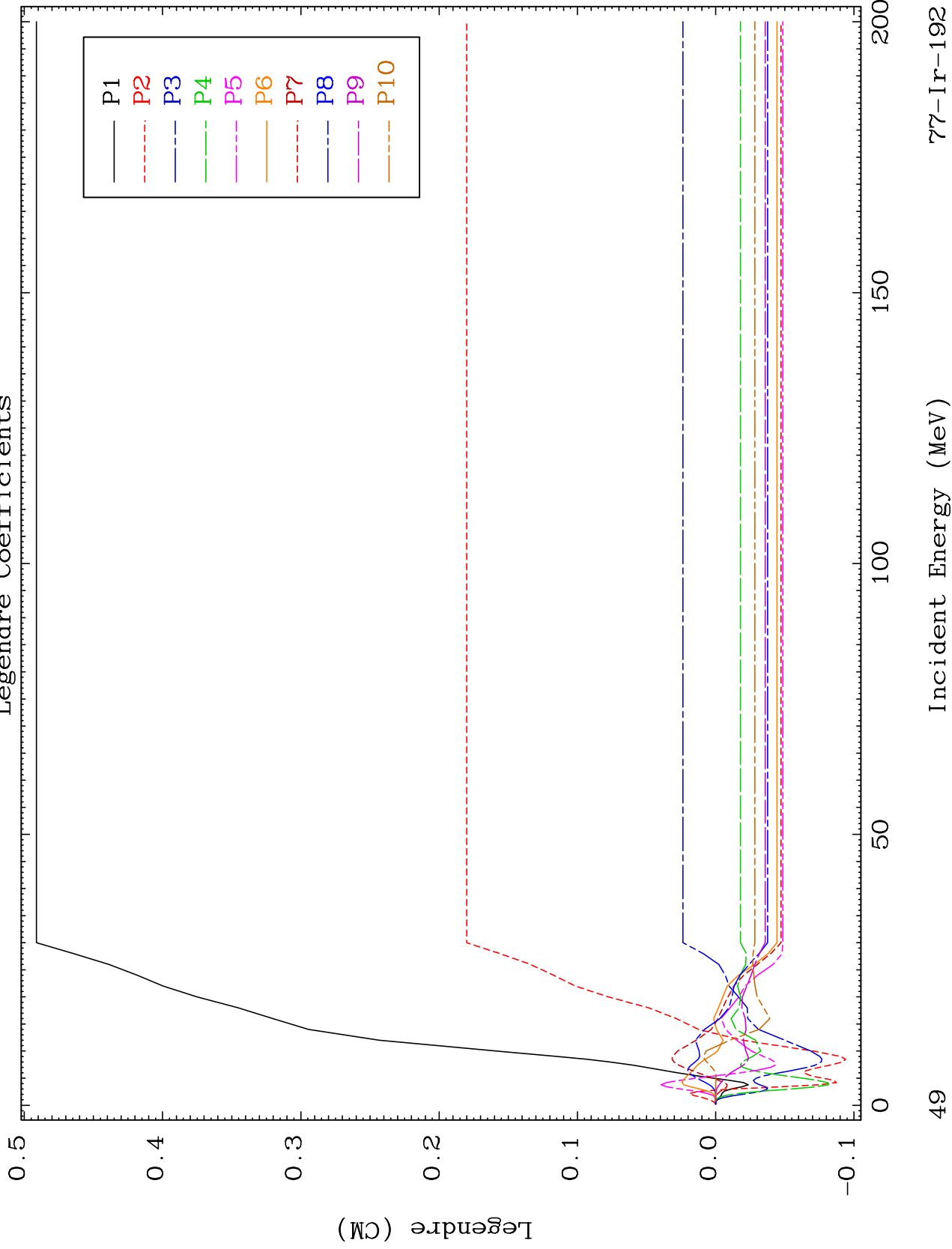
77-Ir-192



MAT 7728

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

77-Ir-192



49

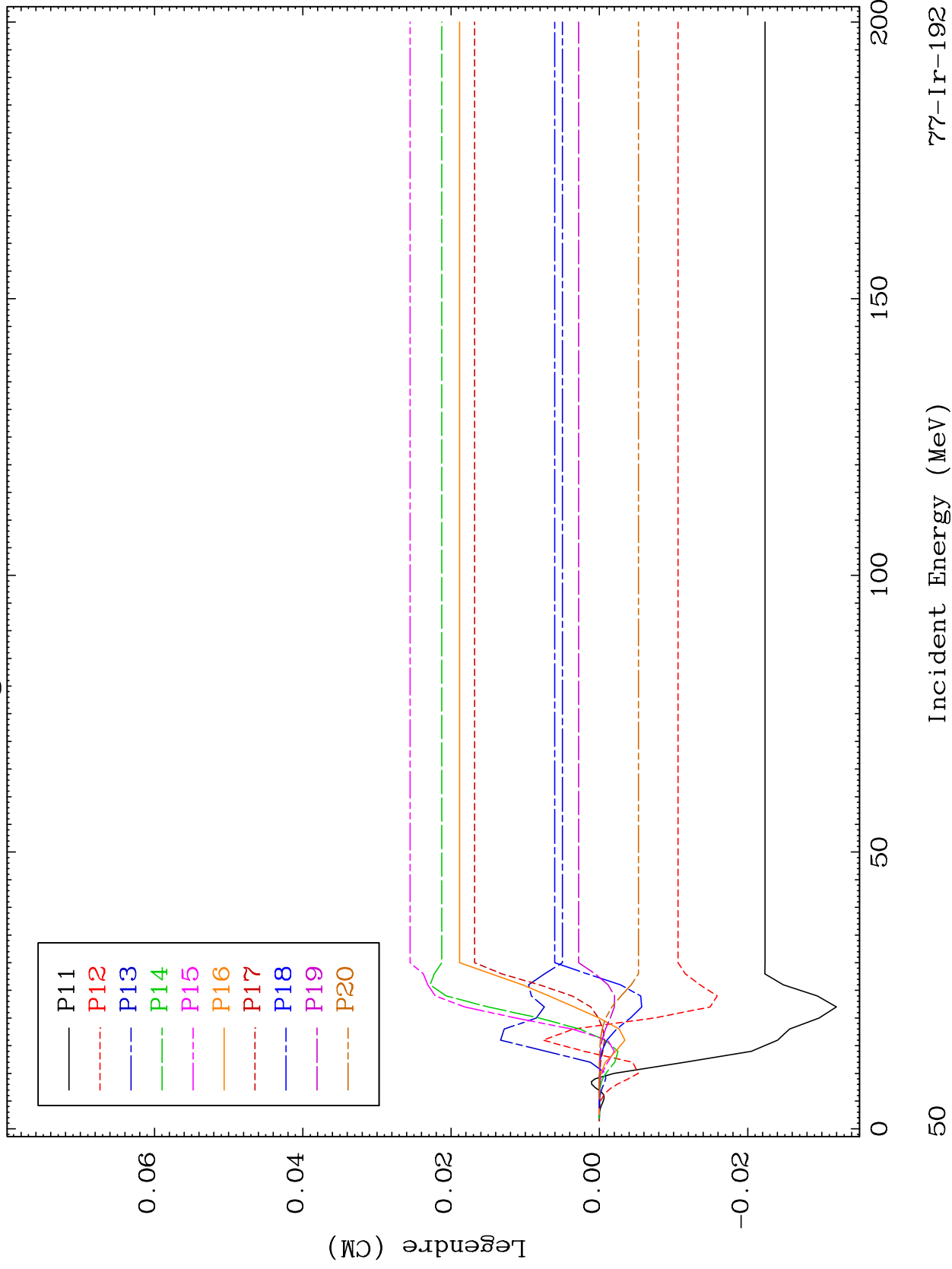
Incident Energy (MeV)

77-Ir-192

MAT 7728

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

77-Ir-192

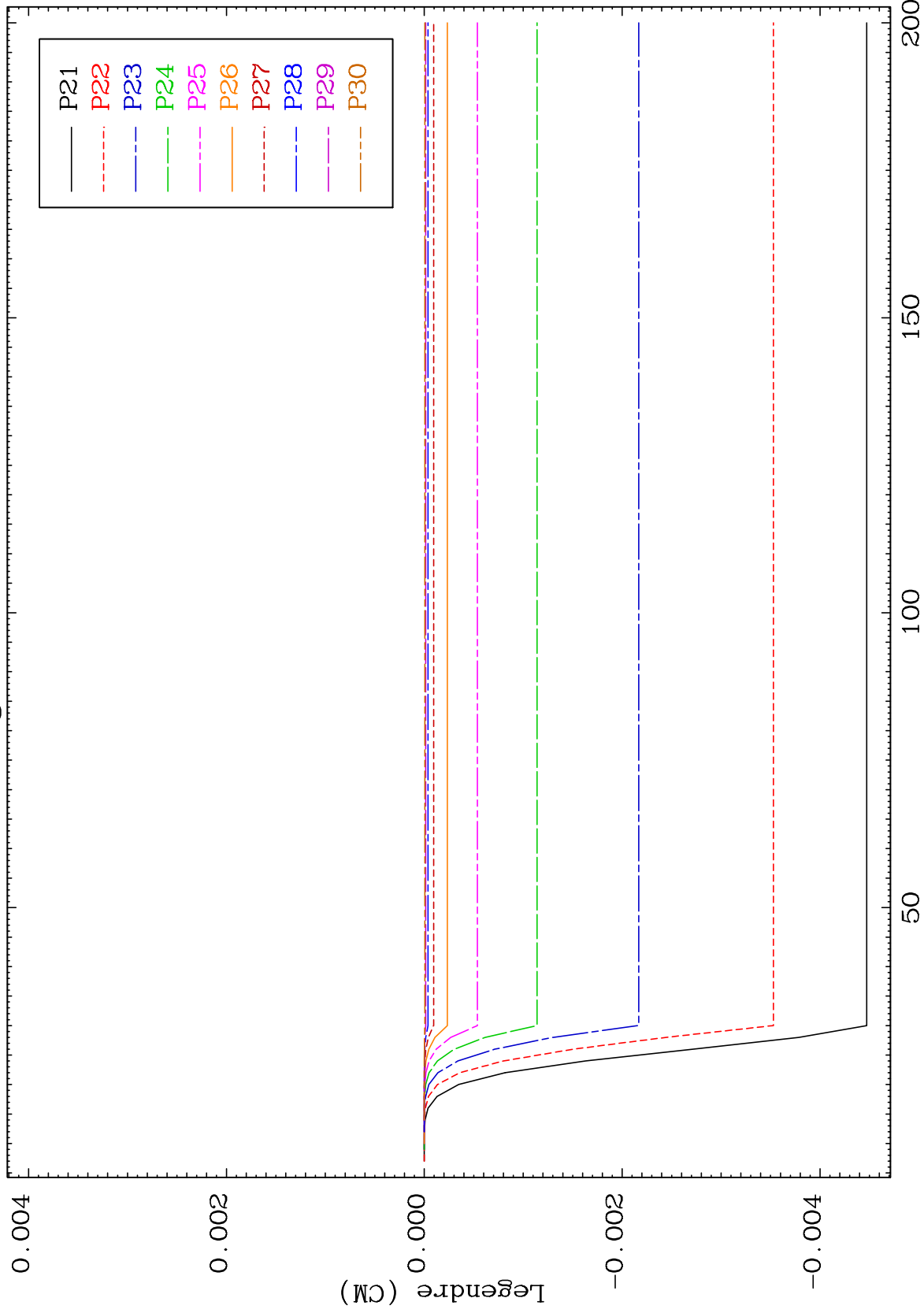


77-Ir-192

MAT 7728

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

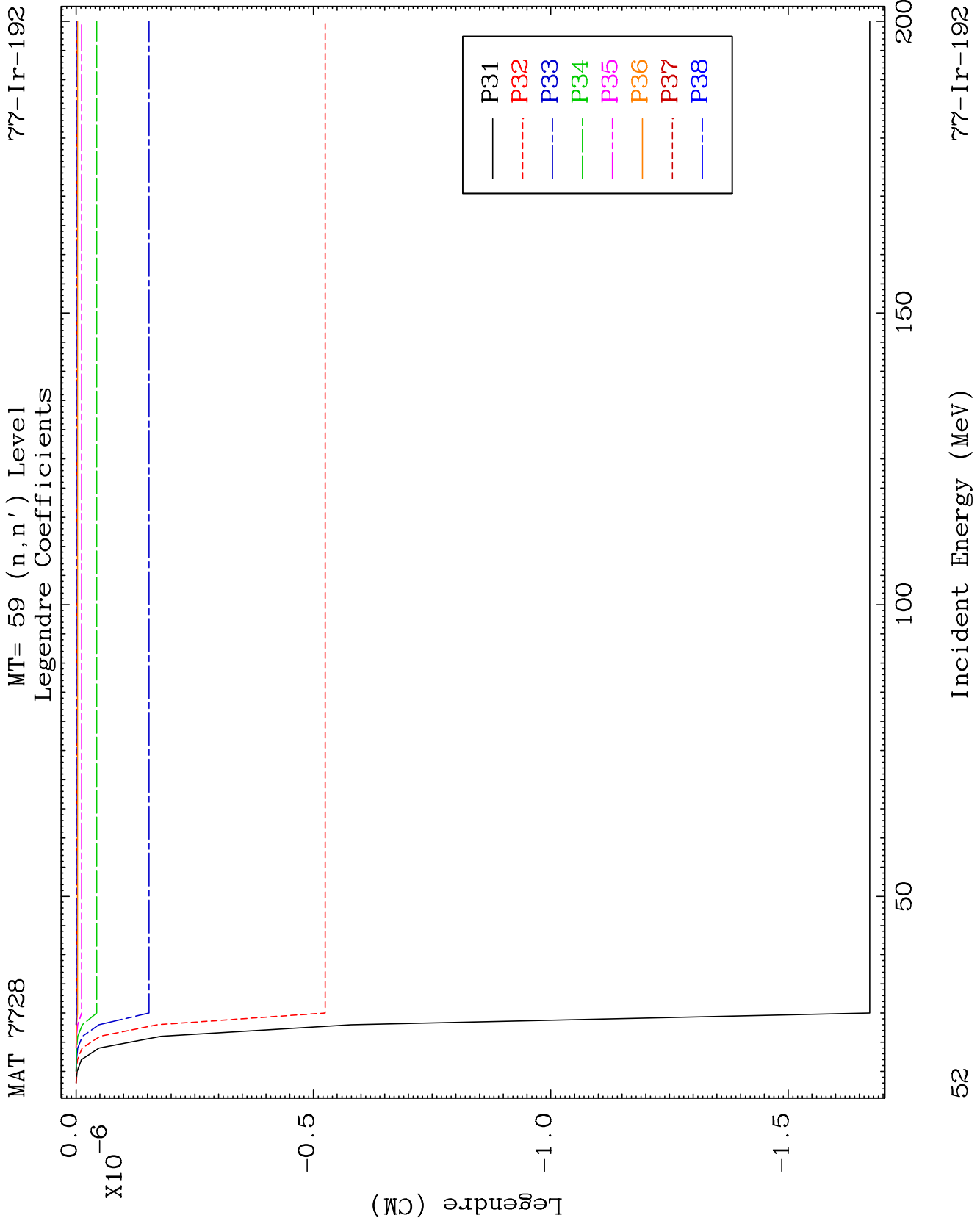
77-Ir-192



51

Incident Energy (MeV)

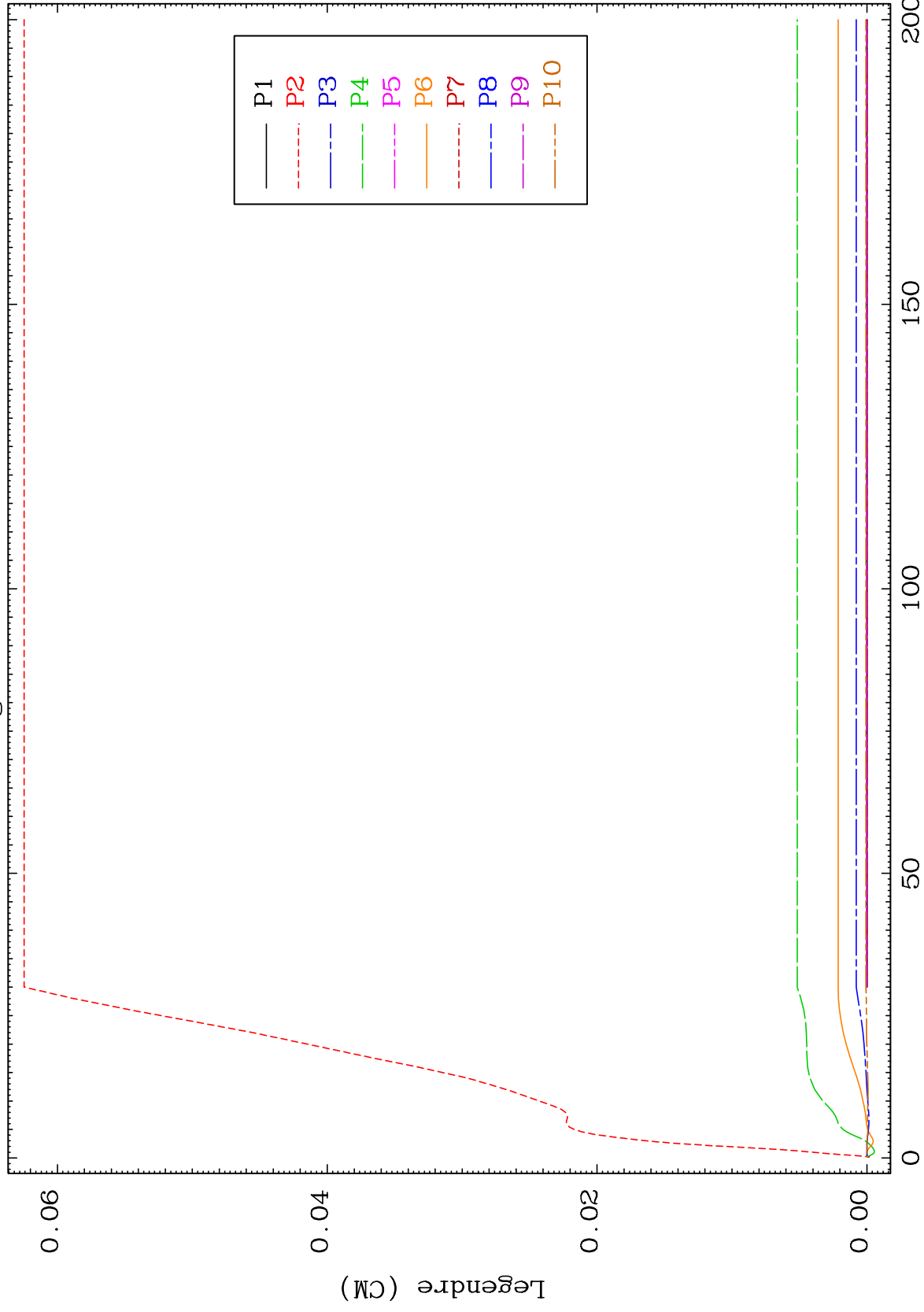
77-Ir-192



MAT 7728

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

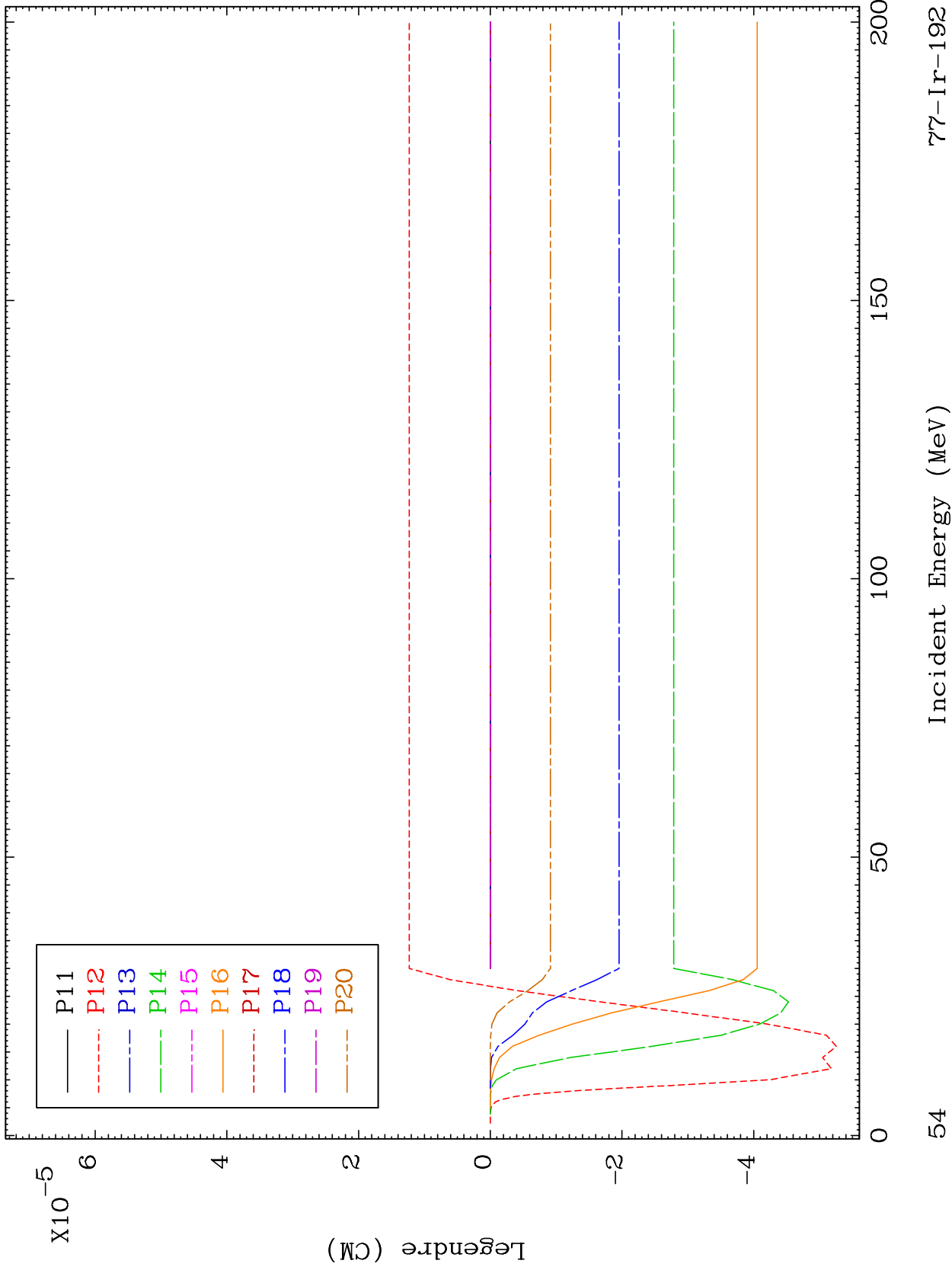
77-Ir-192



53

Incident Energy (MeV)

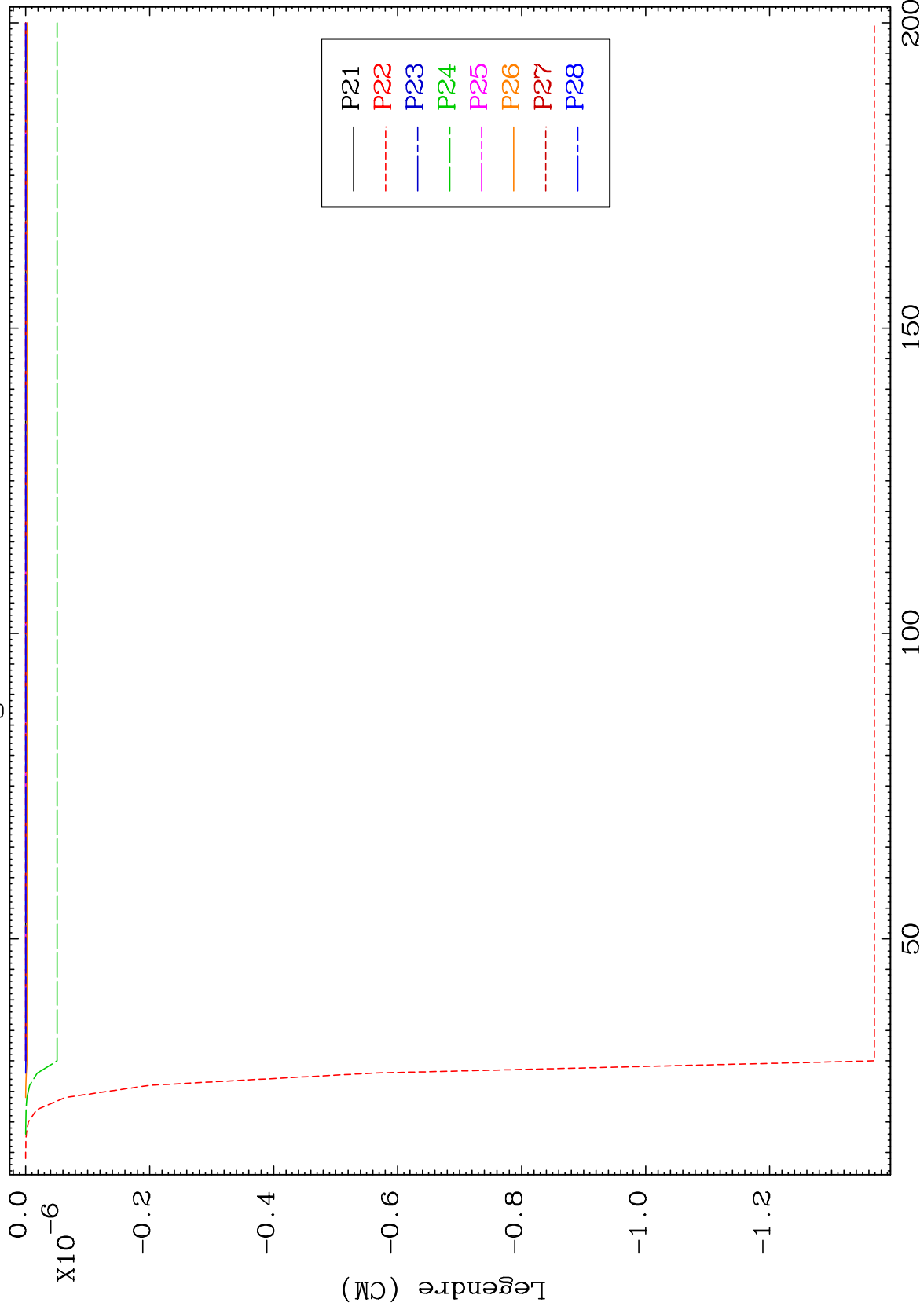
77-Ir-192



MAT 7728

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

77-Ir-192



55

Incident Energy (MeV)

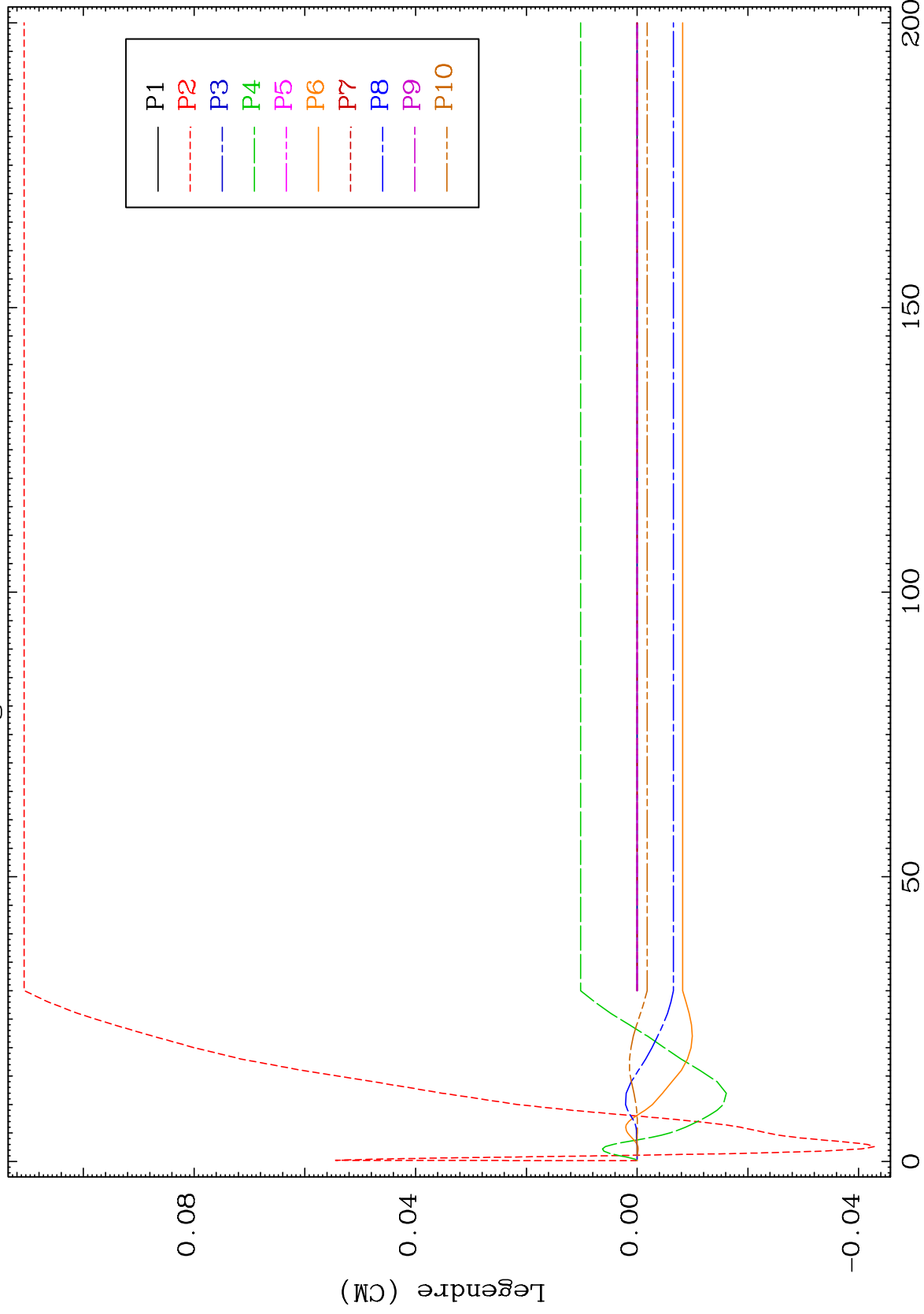
77-Ir-192



MAT 7728

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

77-Ir-192



77-Ir-192

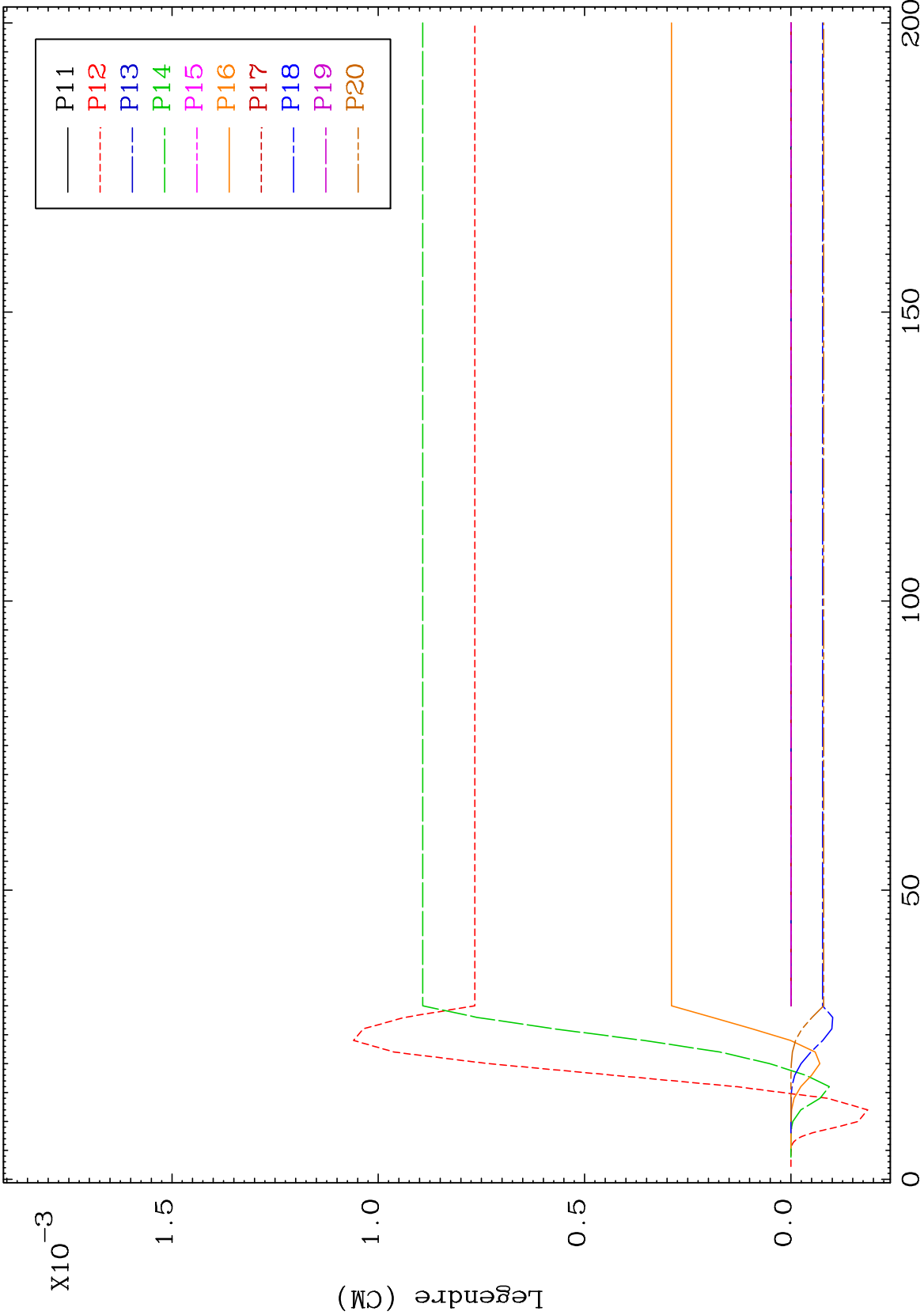
Incident Energy (MeV)

56

MAT 7728

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

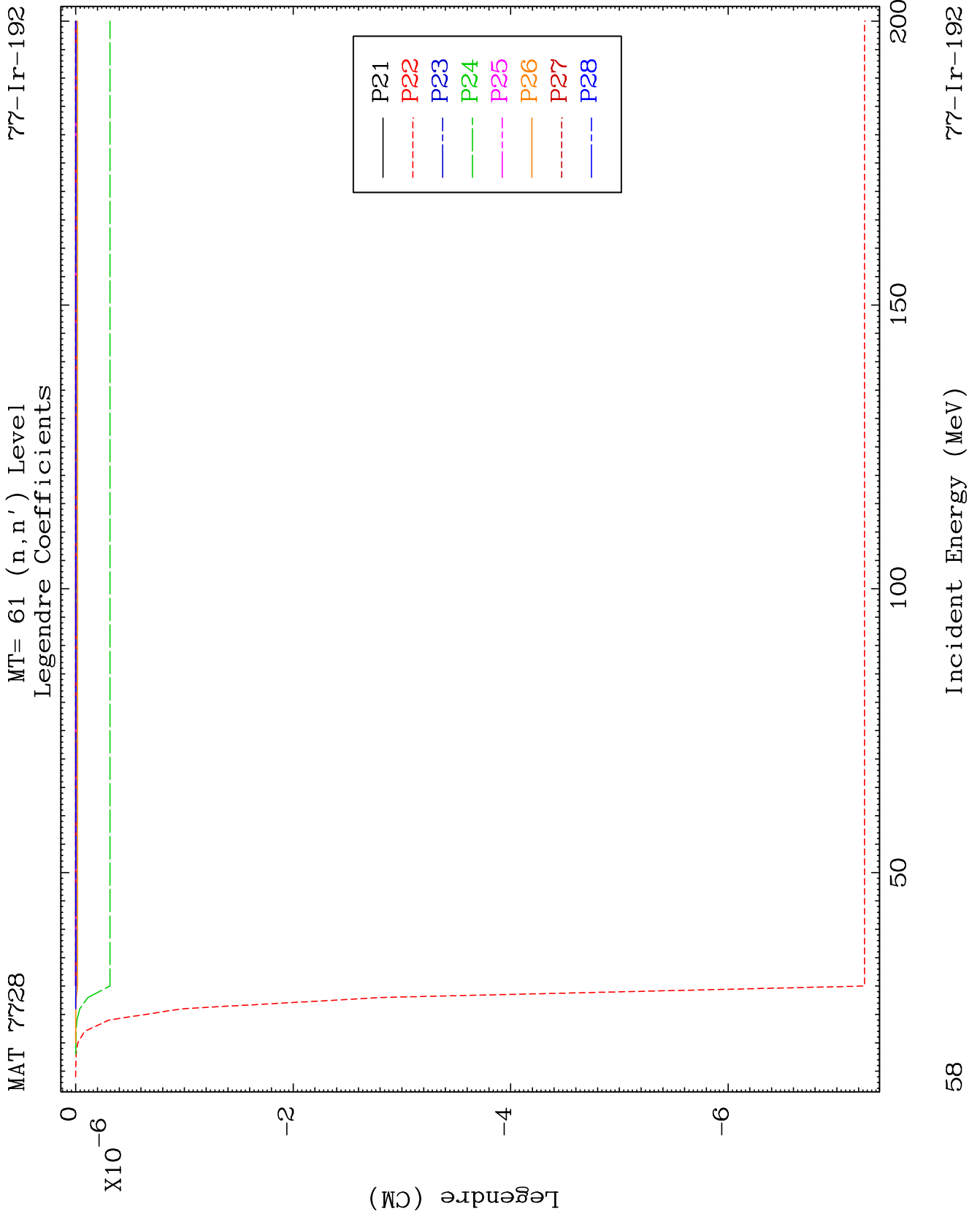
77-Ir-192



57

Incident Energy (MeV)

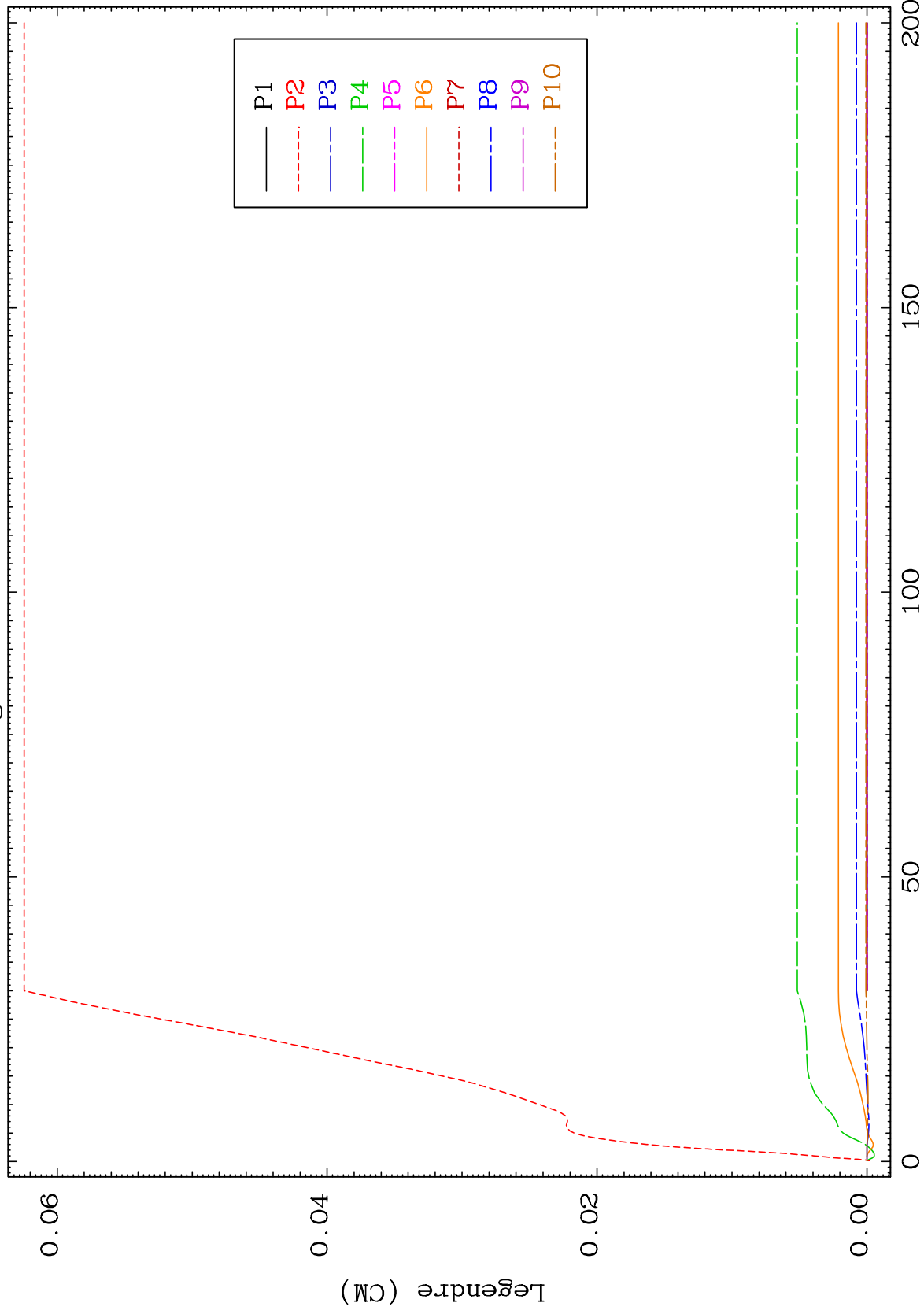
77-Ir-192



MAT 7728

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

77-Ir-192



59

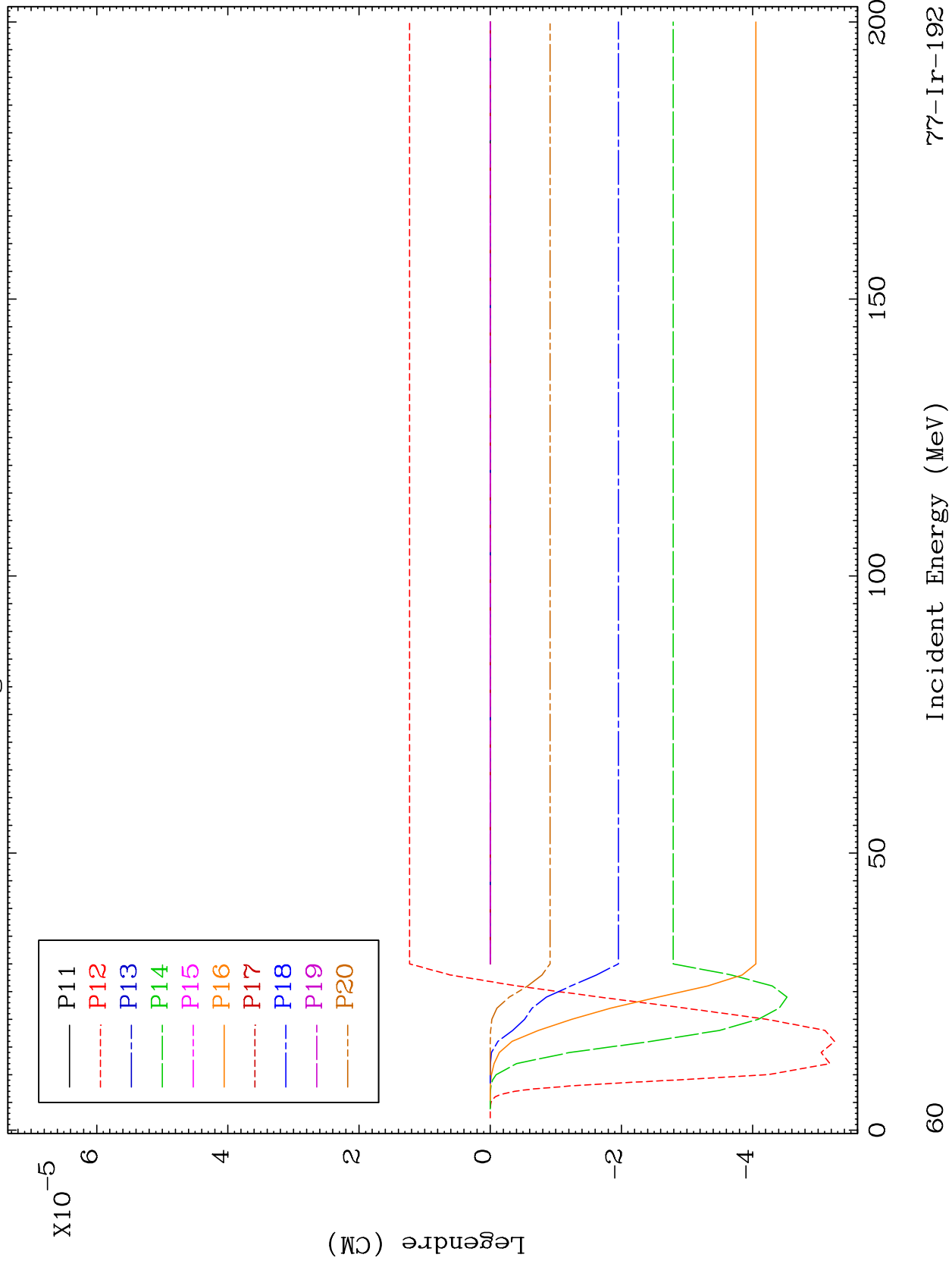
Incident Energy (MeV)

77-Ir-192

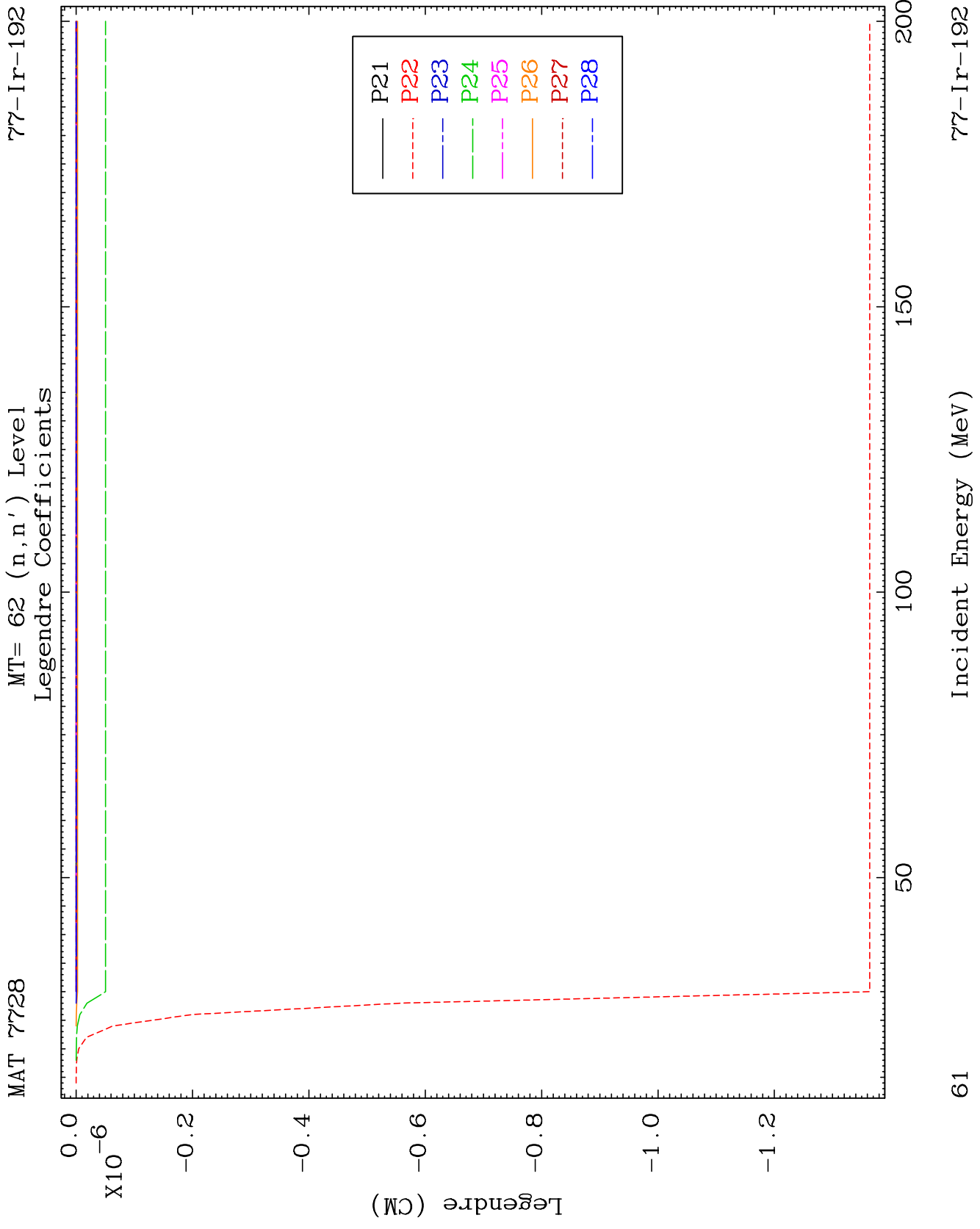
MAT 7728

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

77-Ir-192



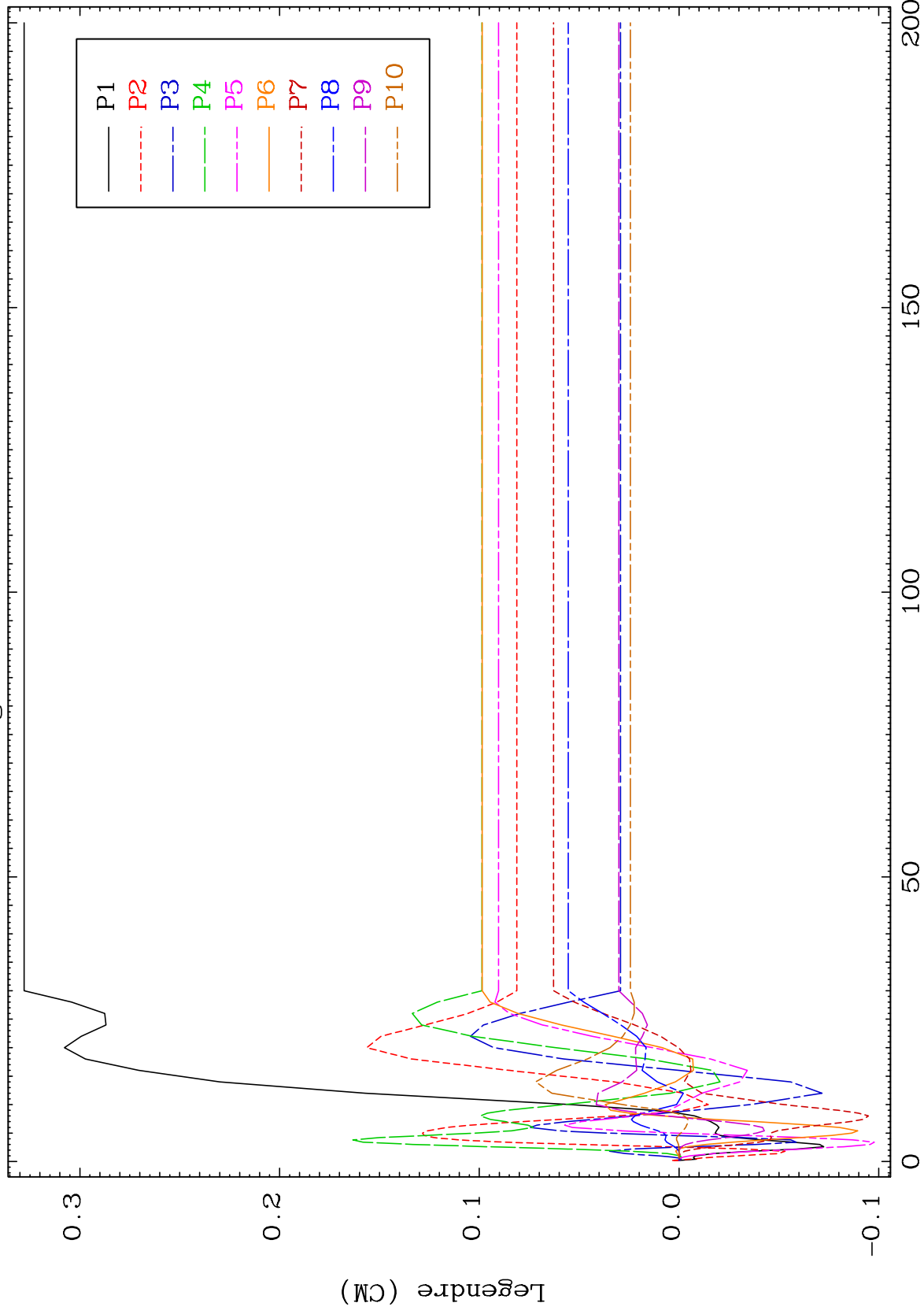
77-Ir-192



MAT 7728

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

77-Ir-192



62

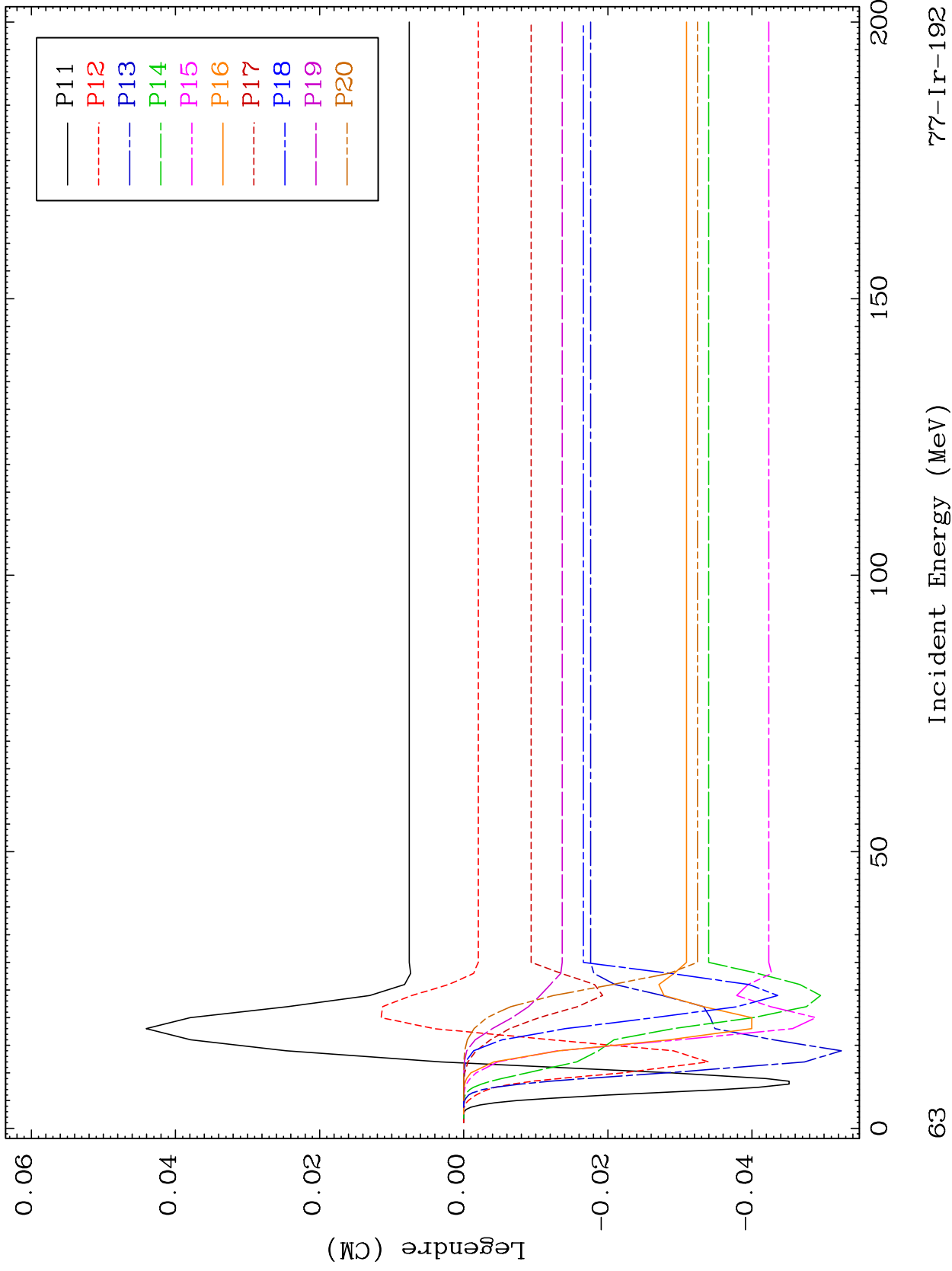
Incident Energy (MeV)

77-Ir-192

MAT 7728

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

77-Ir-192



77-Ir-192

Incident Energy (MeV)

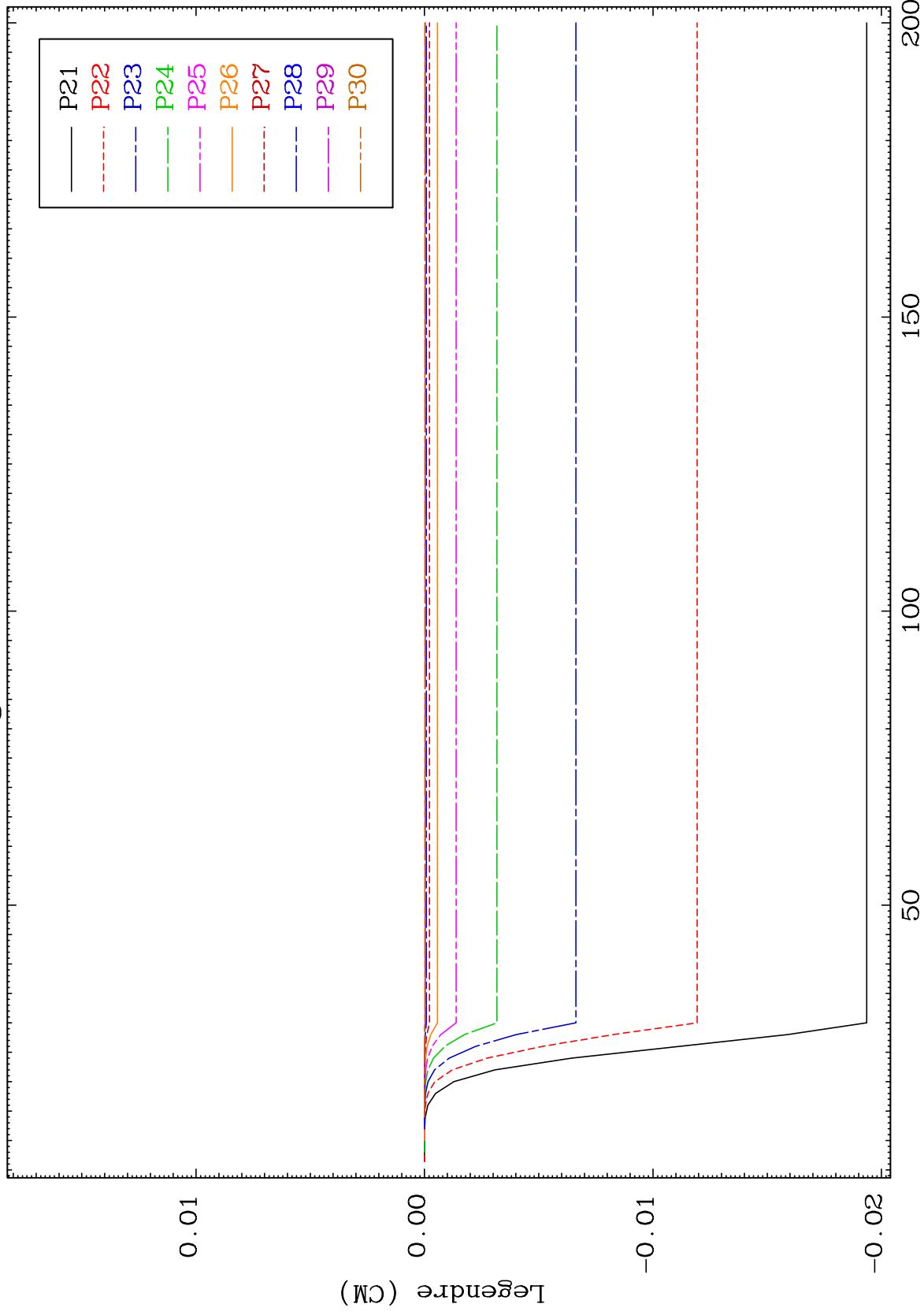
63



MAT 7728

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

77-Ir-192



64

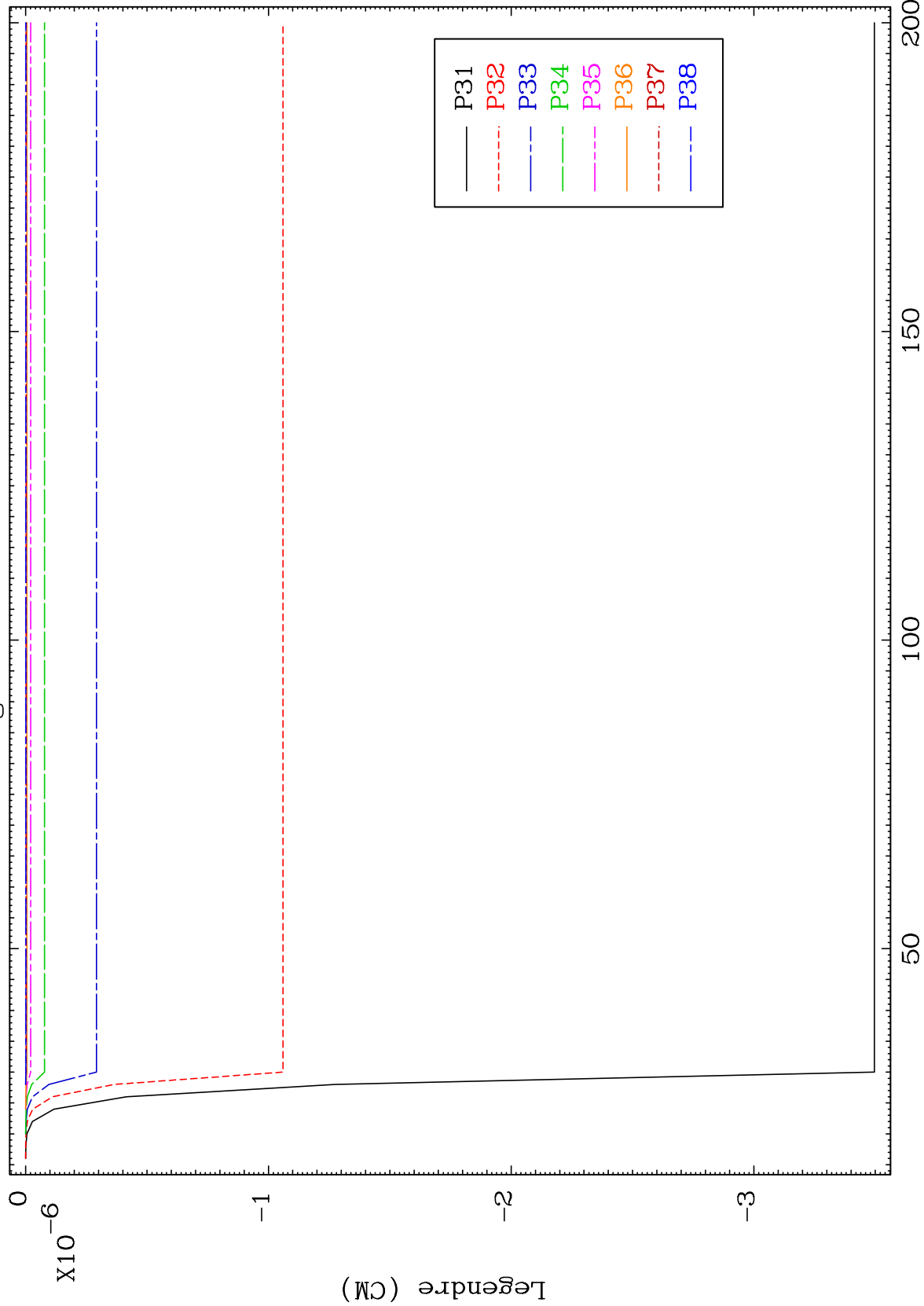
Incident Energy (MeV)

77-Ir-192

MAT 7728

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

77-Ir-192



65

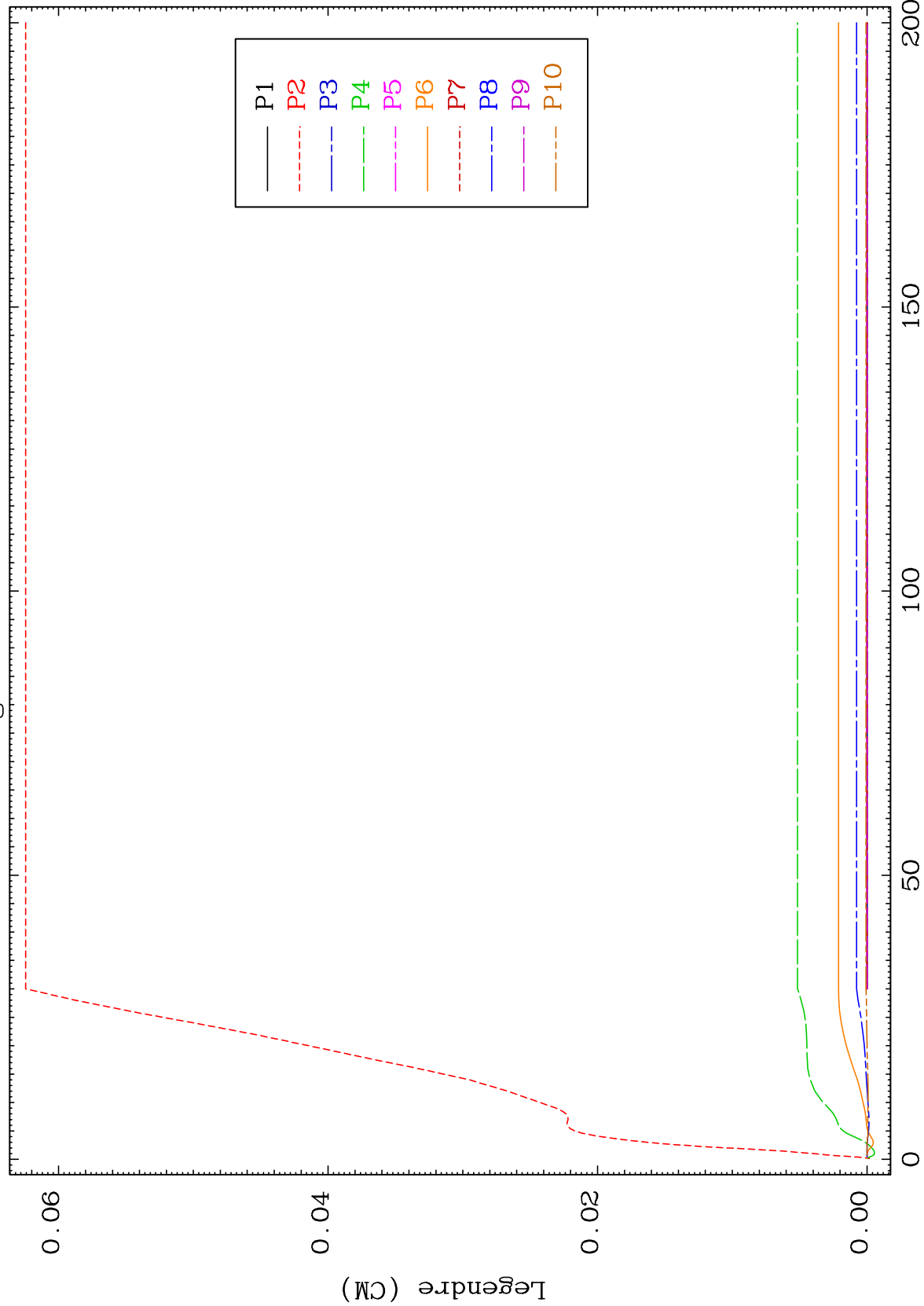
Incident Energy (MeV)

77-Ir-192

MAT 7728

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

77-Ir-192



66

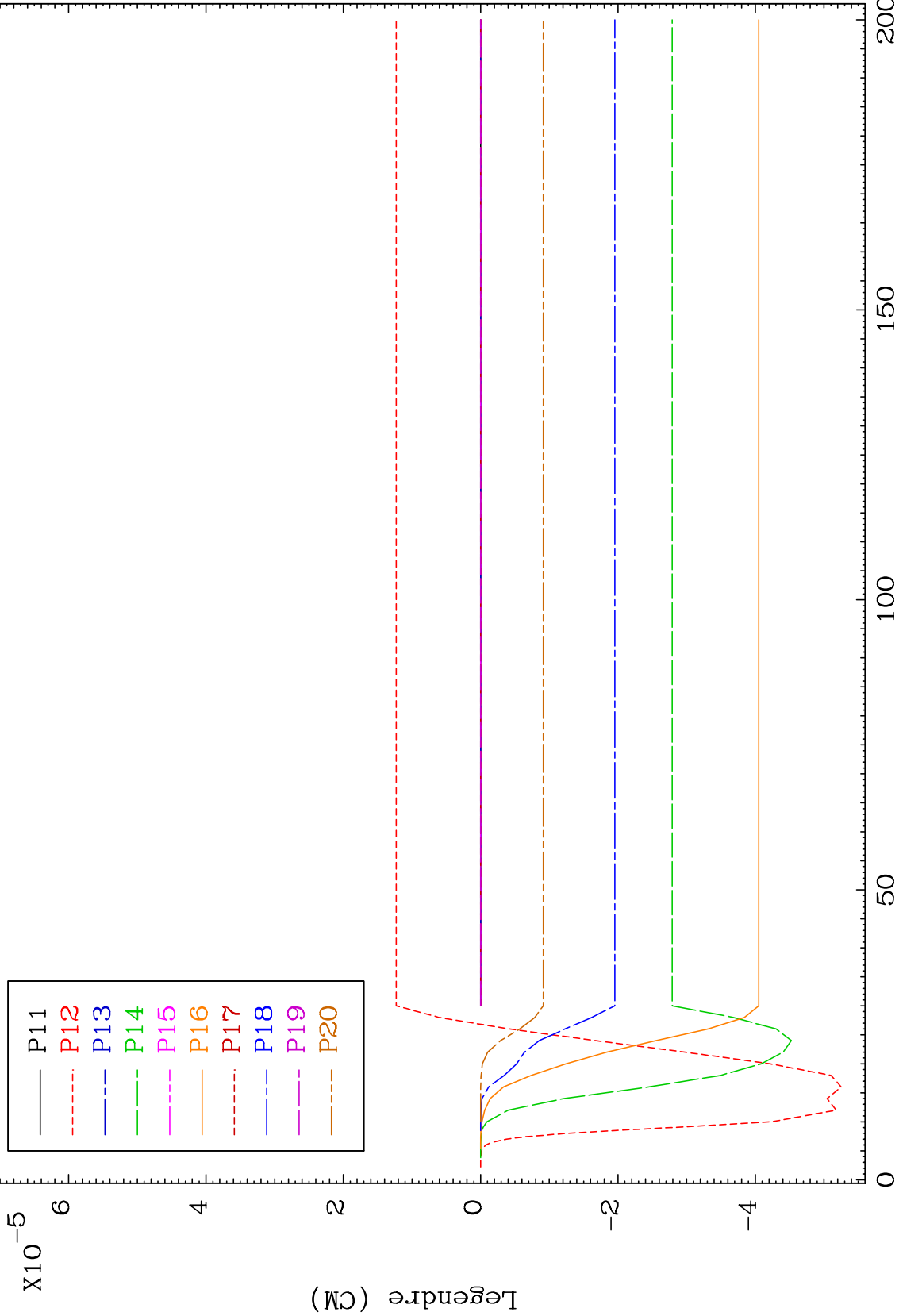
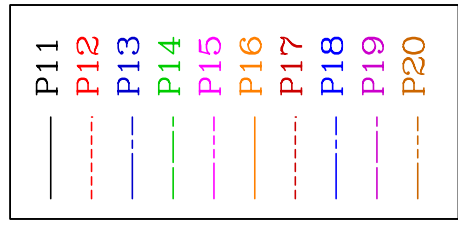
Incident Energy (MeV)

77-Ir-192

MAT 7728

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

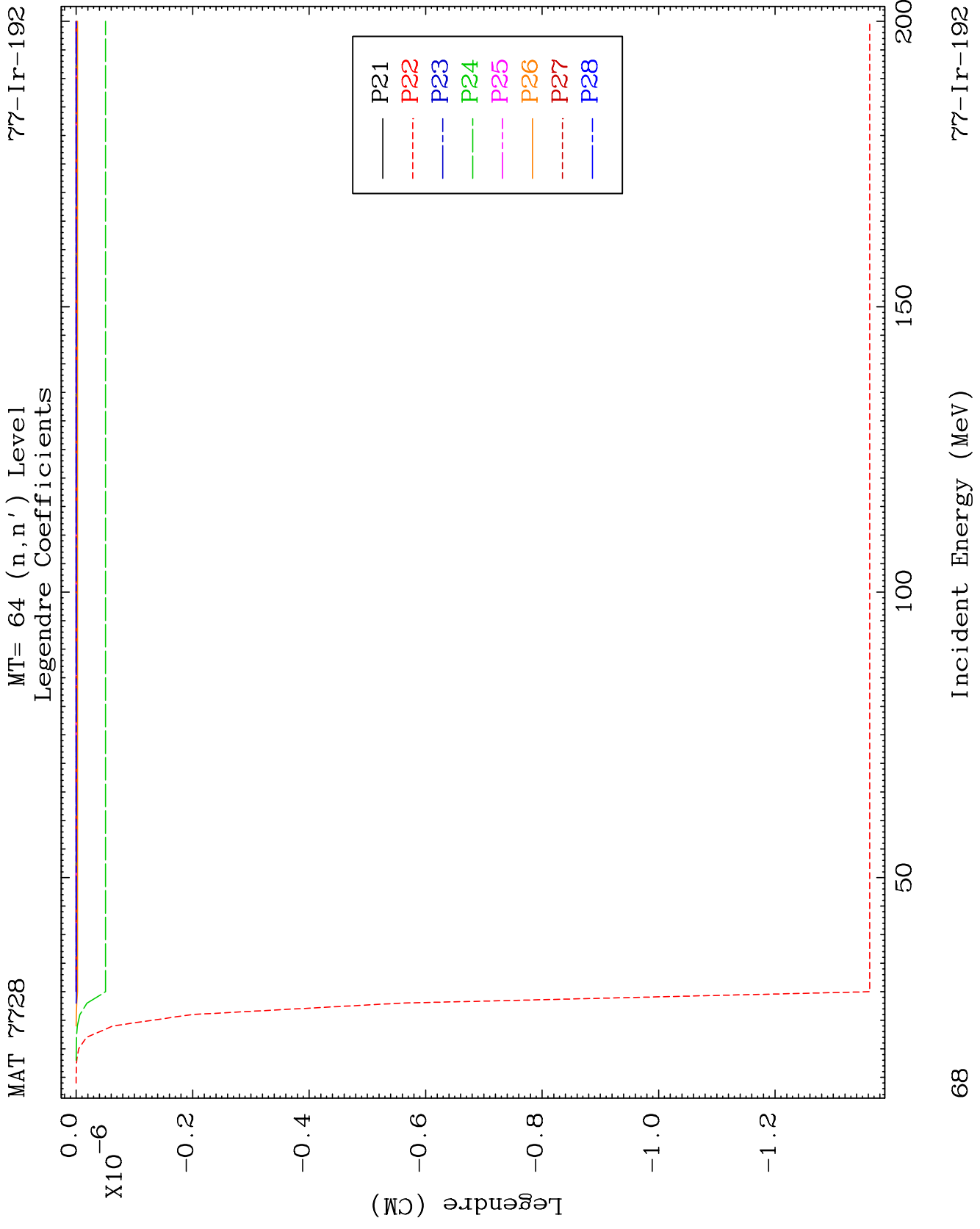
77-Ir-192



67

Incident Energy (MeV)

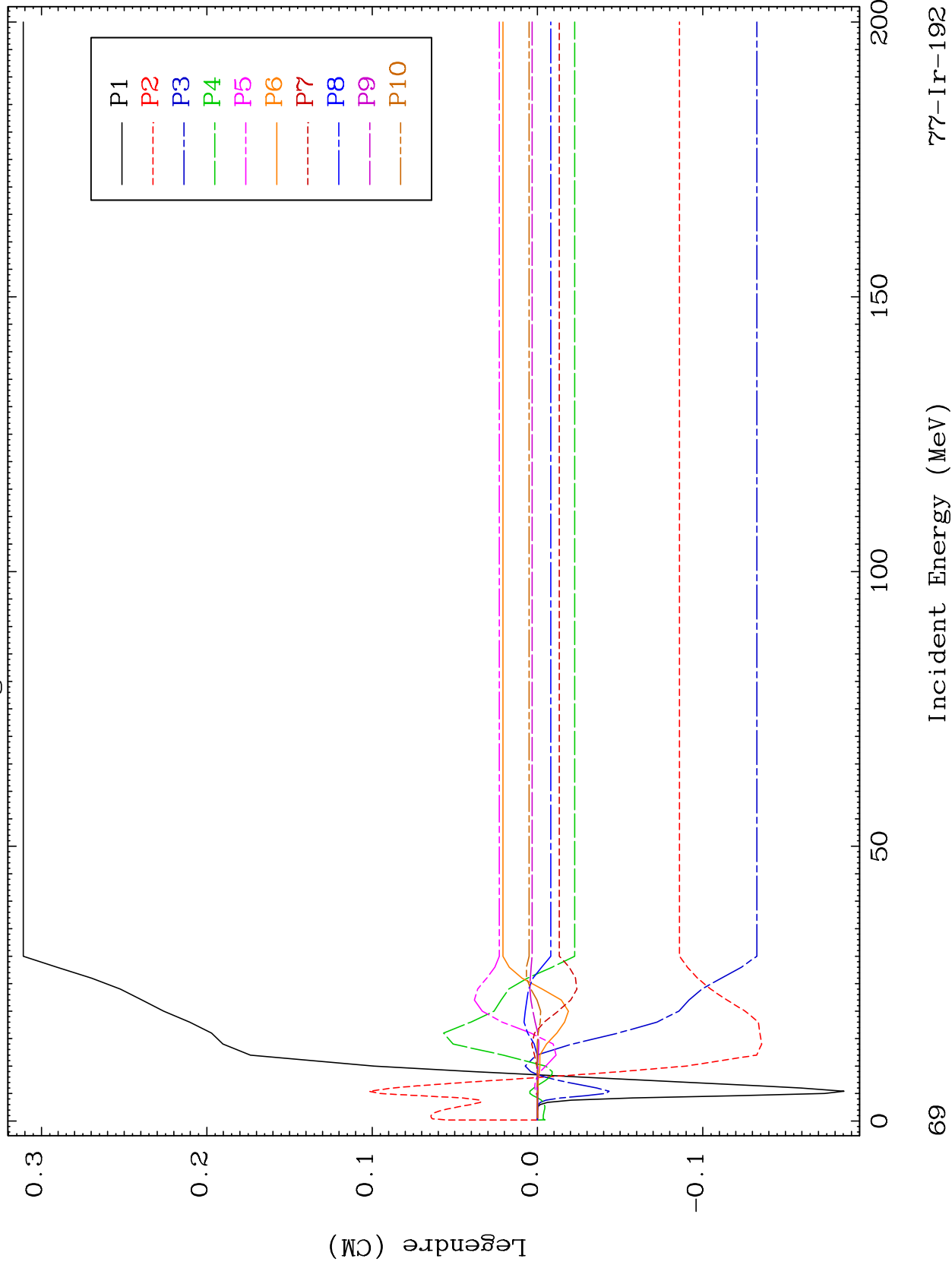
77-Ir-192



MAT 7728

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

77-Ir-192



77-Ir-192

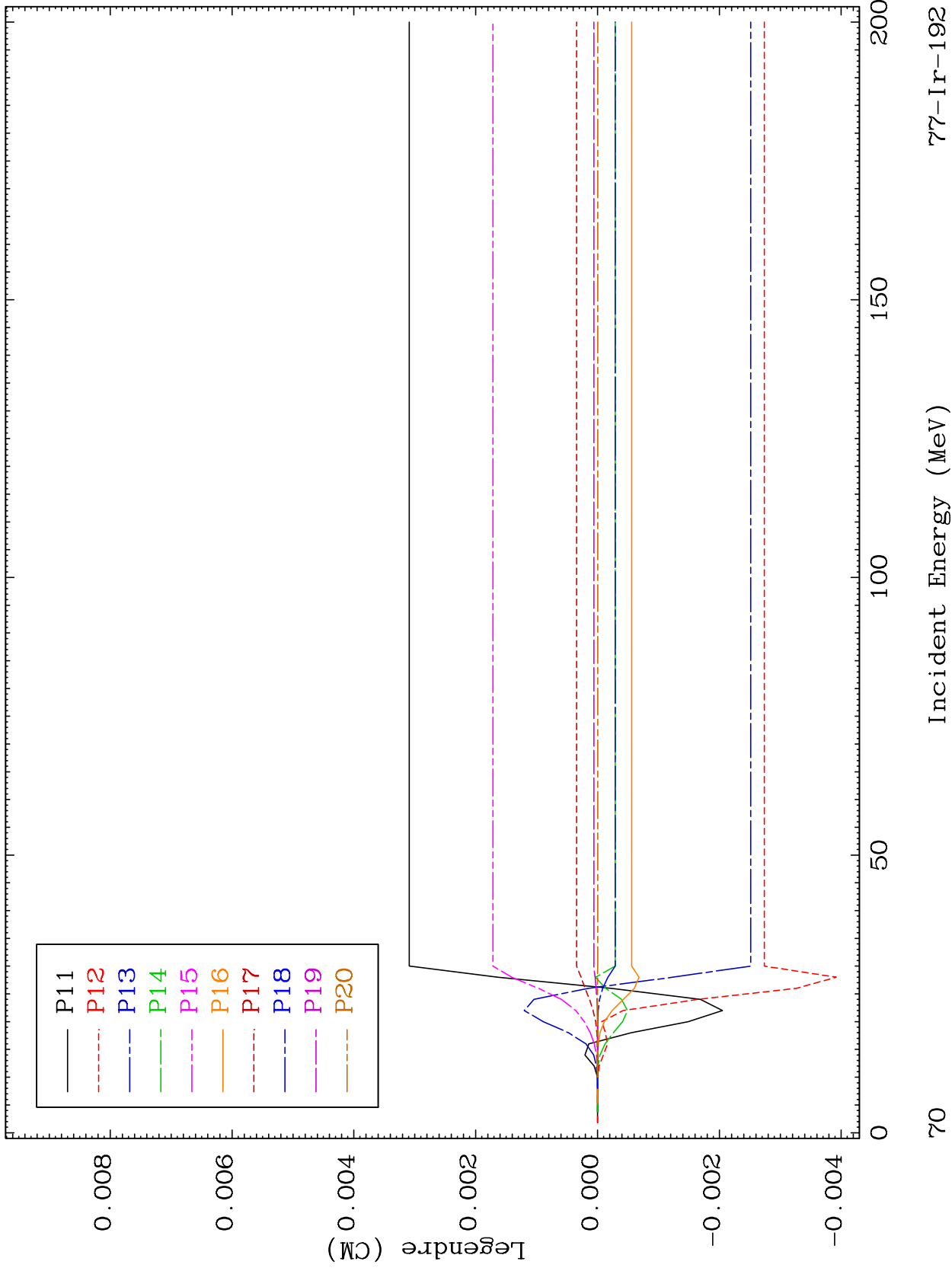
Incident Energy (MeV)

69

MAT 7728

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

77-Ir-192



77-Ir-192

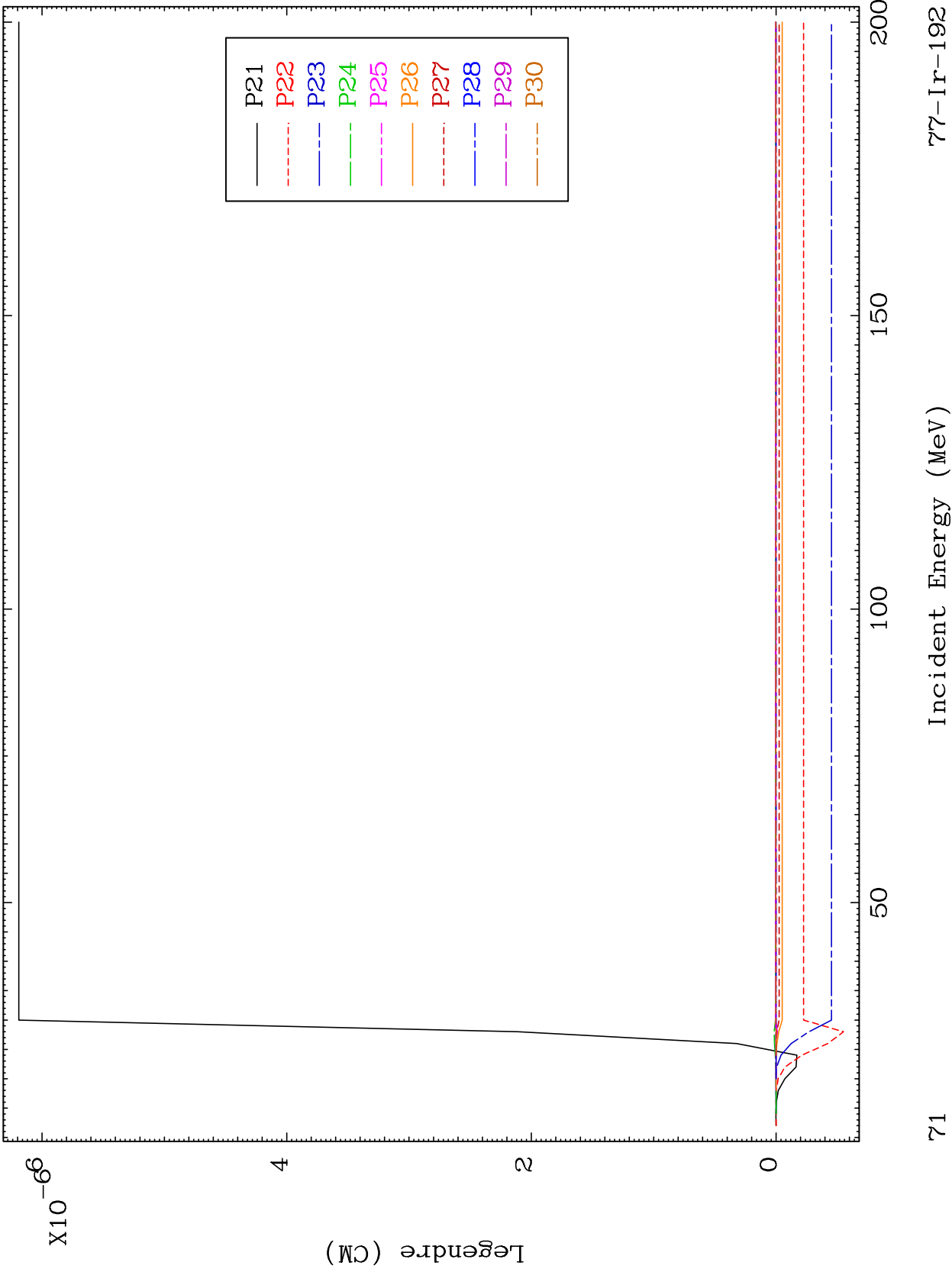
Incident Energy (MeV)

70

MAT 7728

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

77-Ir-192



71

Incident Energy (MeV)

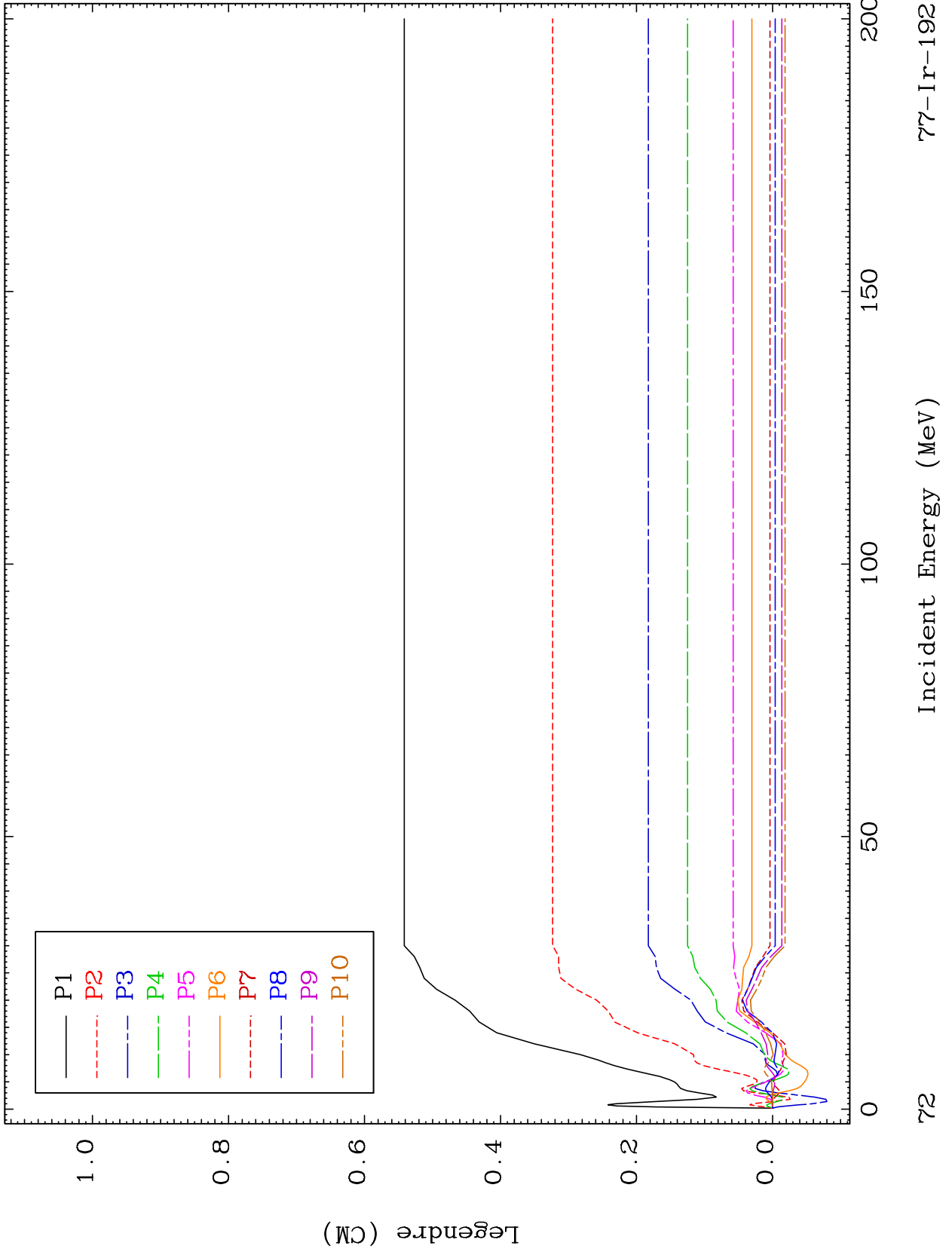
77-Ir-192



MAT 7728

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

77-Ir-192



72

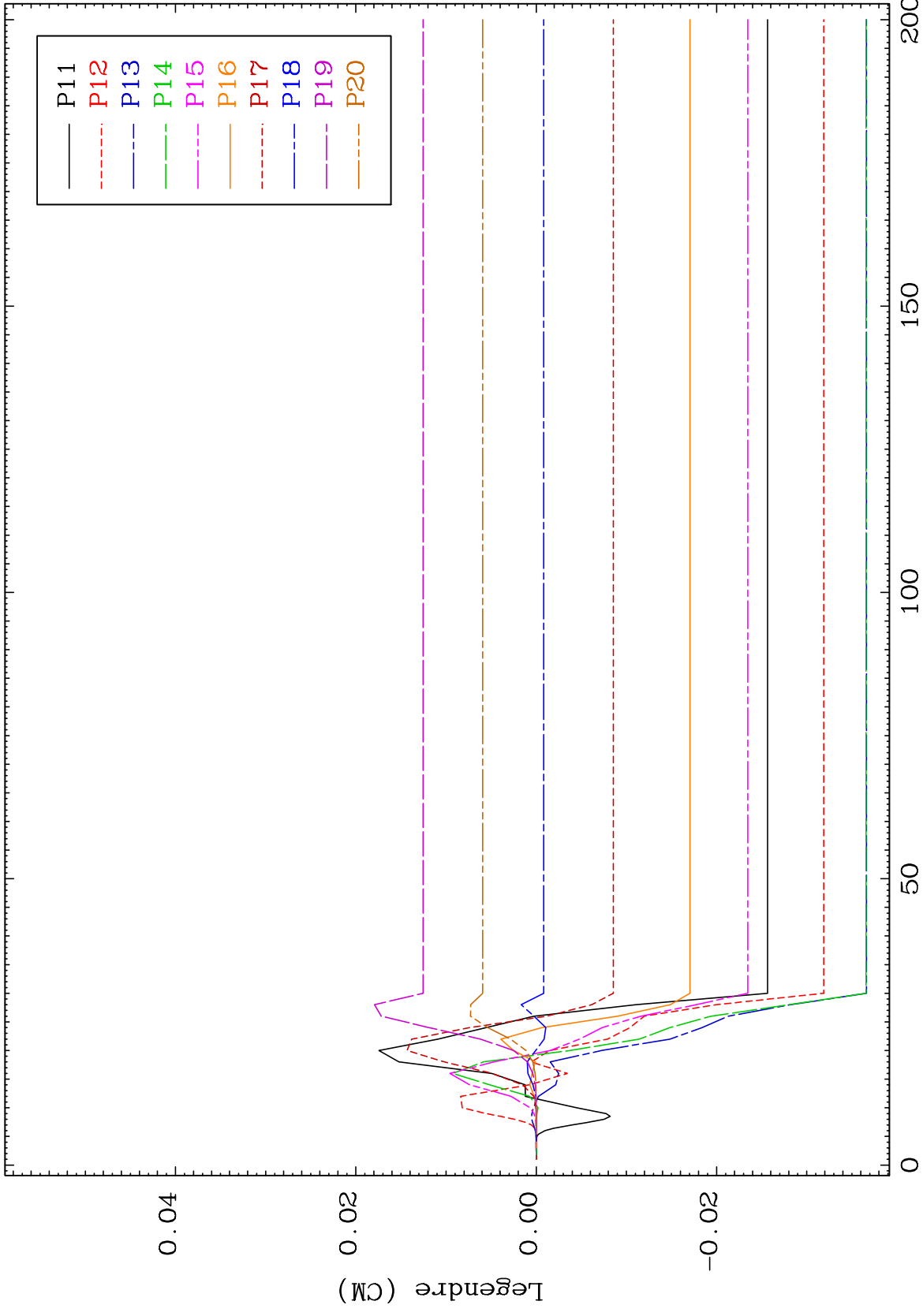
Incident Energy (MeV)

77-Ir-192

MAT 7728

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

77-Ir-192



73

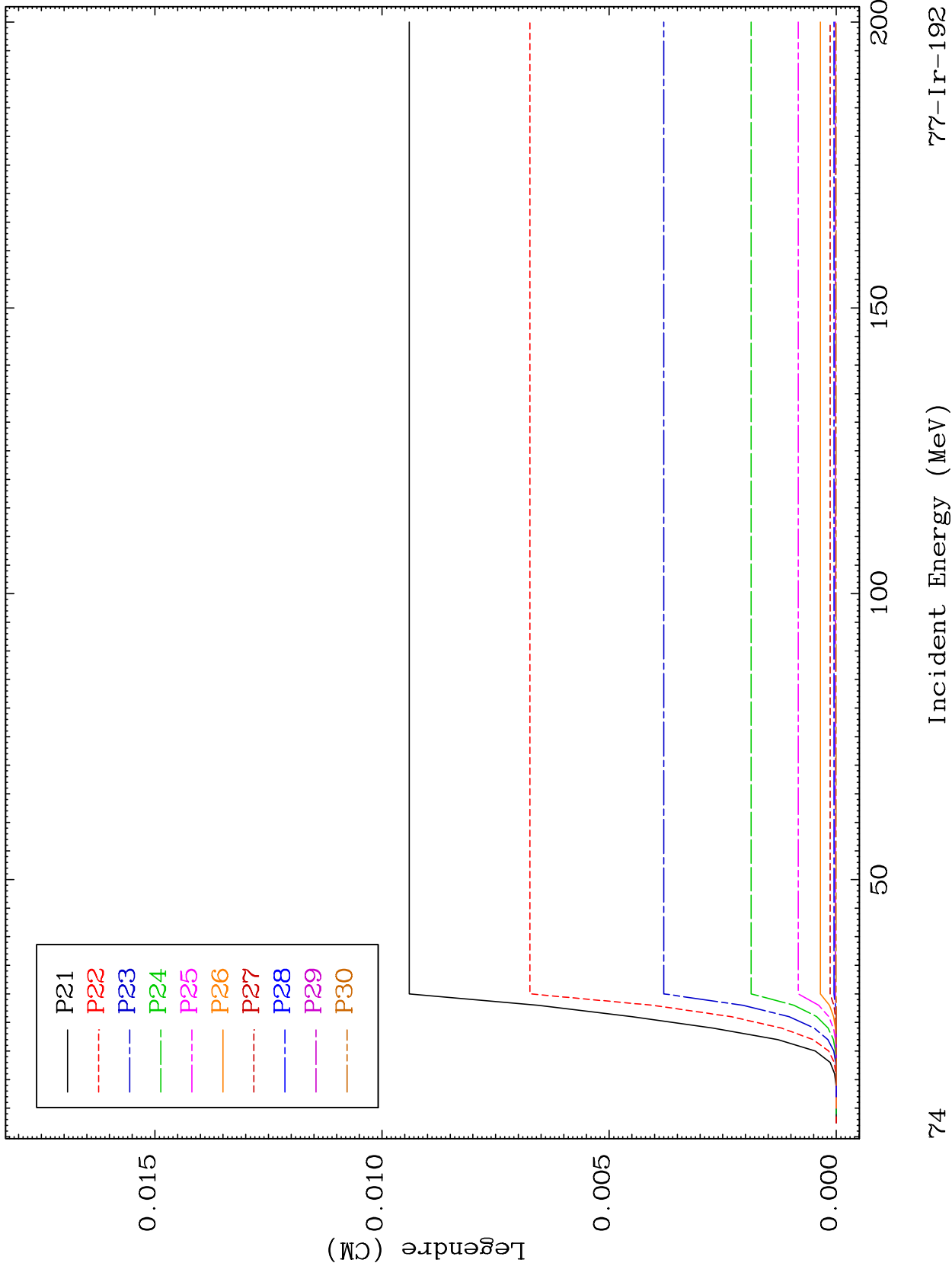
Incident Energy (MeV)

77-Ir-192

MAT 7728

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

77-Ir-192



74

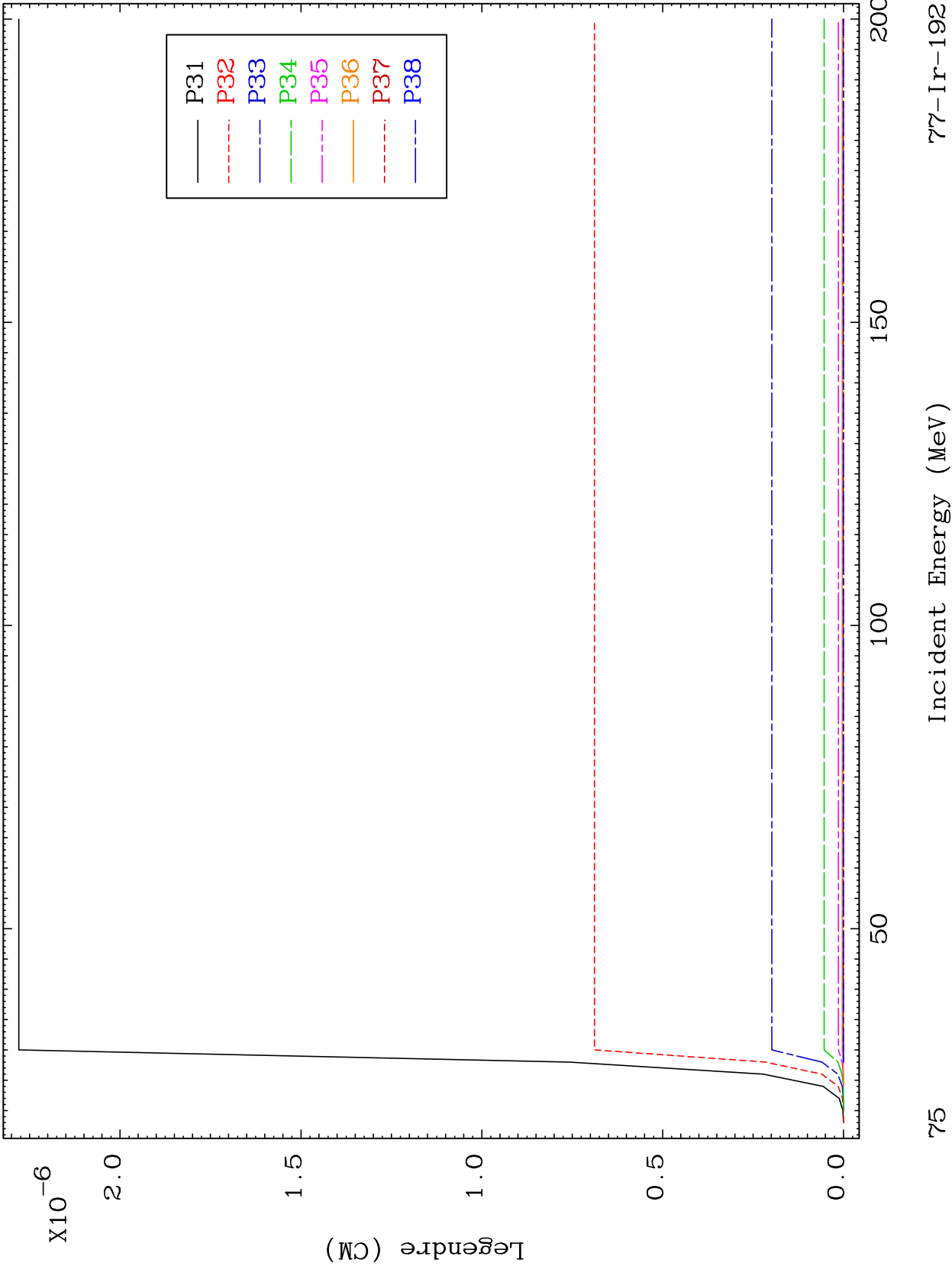
Incident Energy (MeV)

77-Ir-192

MAT 7728

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

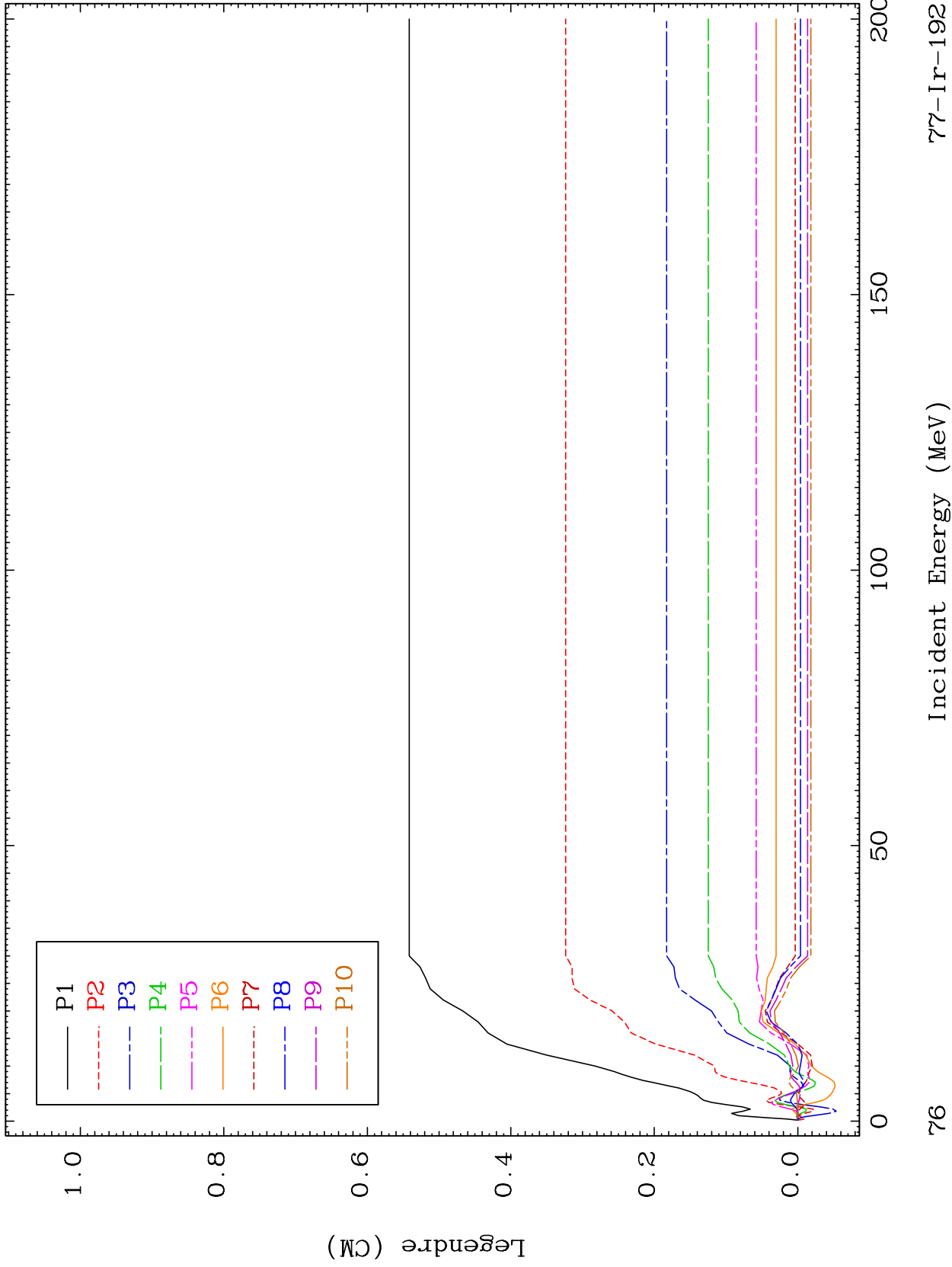
77-Ir-192



MAT 7728

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

77-Ir-192



76

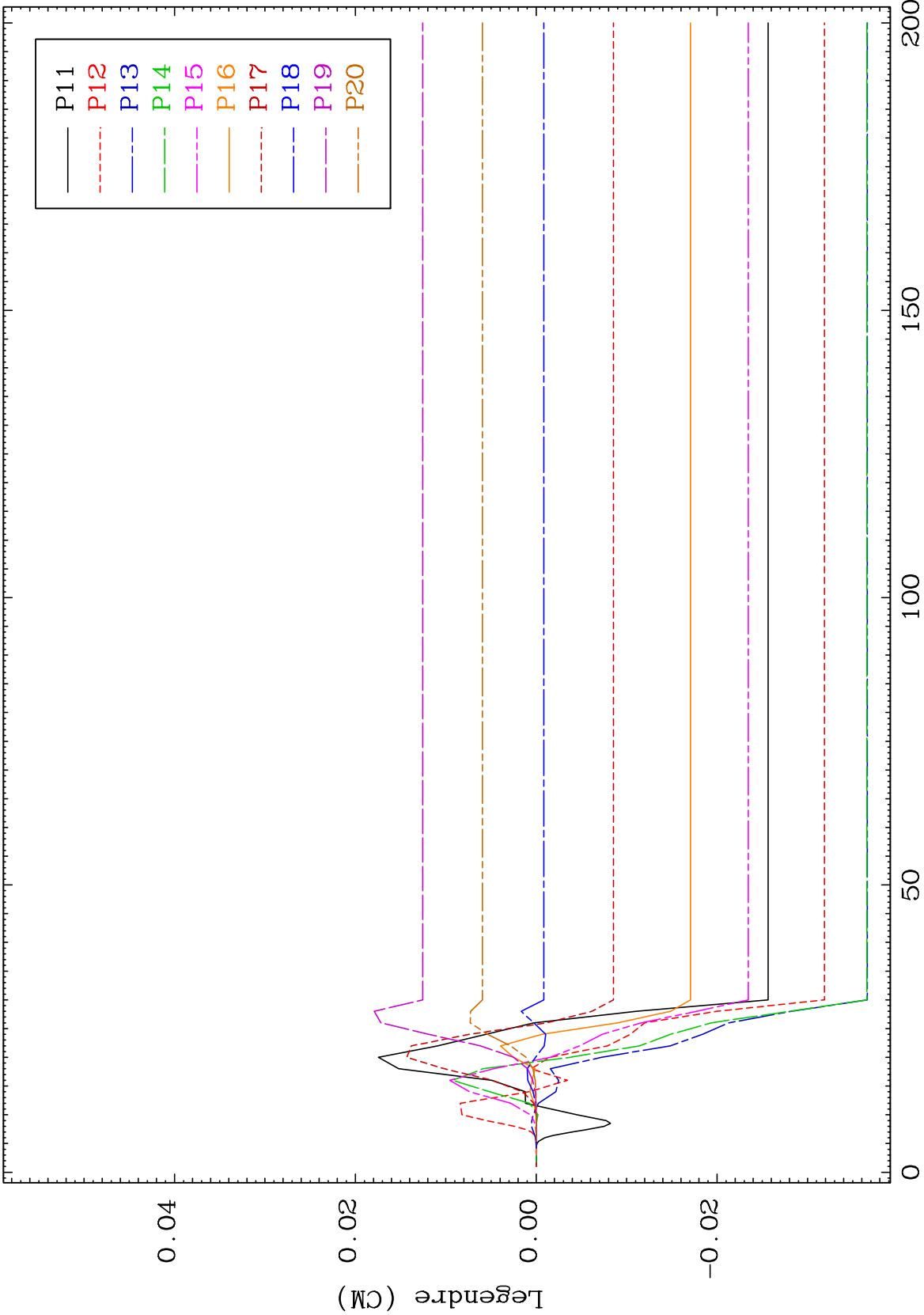
Incident Energy (MeV)

77-Ir-192

MAT 7728

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

77-Ir-192



77

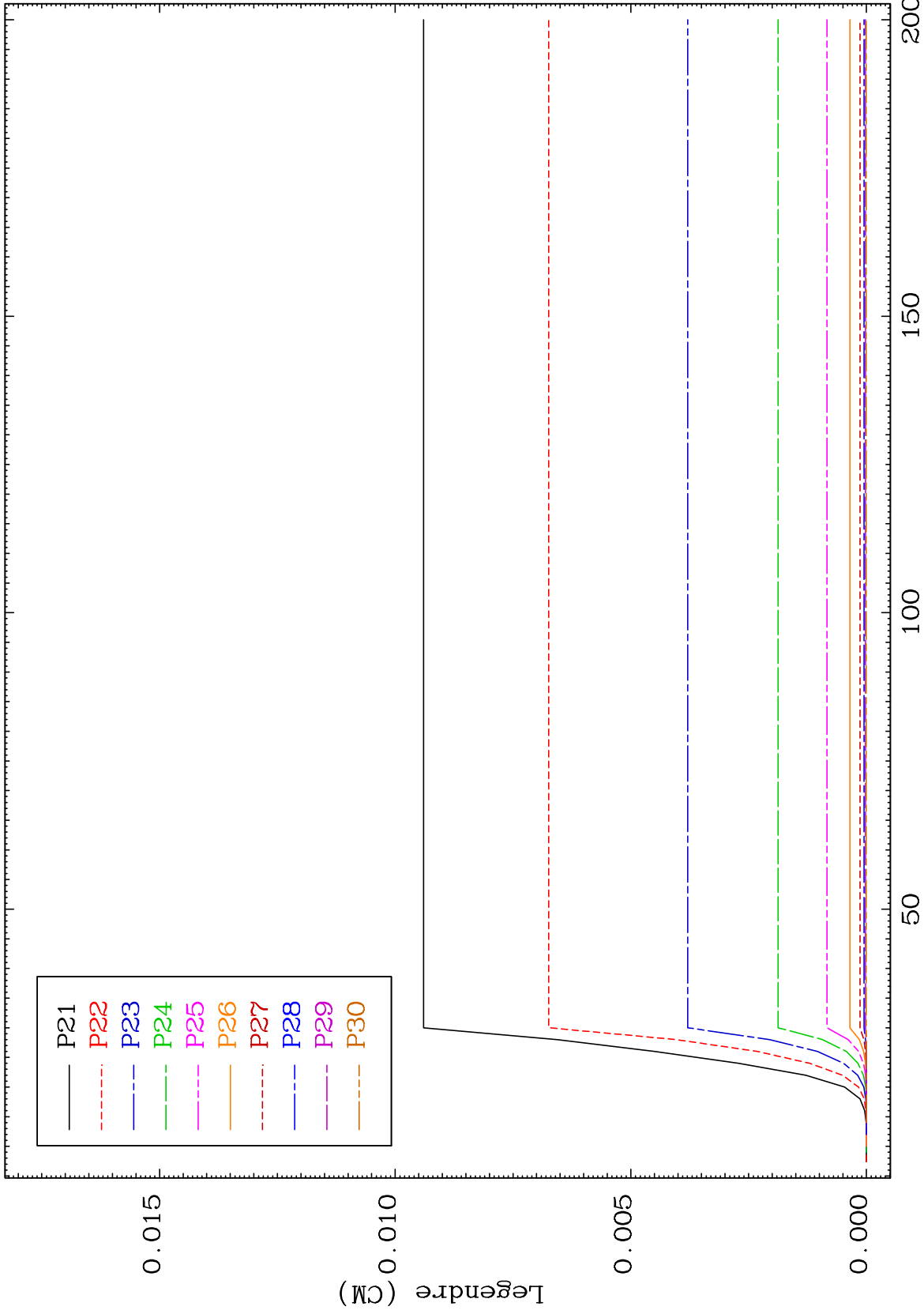
Incident Energy (MeV)

77-Ir-192

MAT 7728

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

77-Ir-192



78

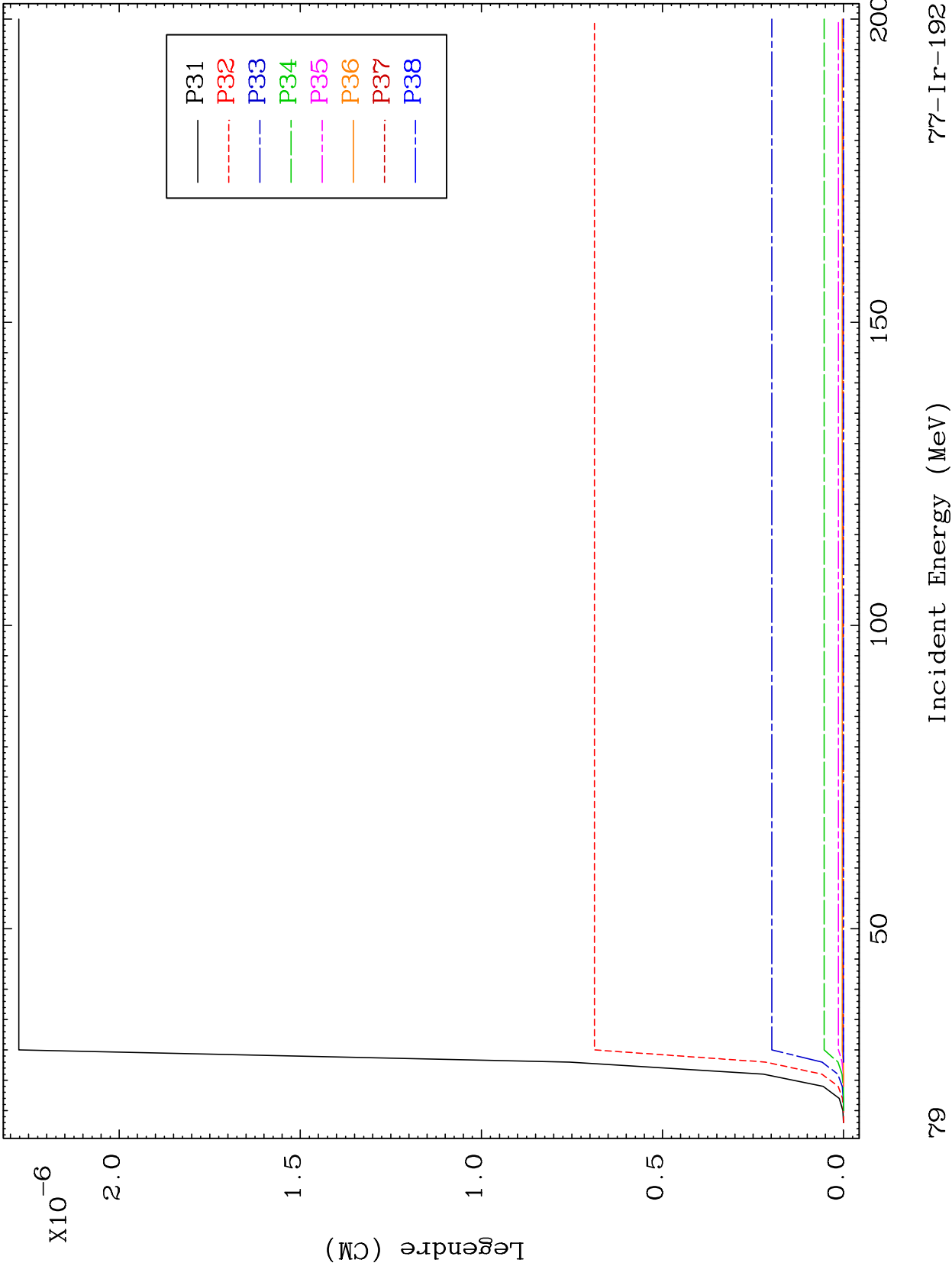
Incident Energy (MeV)

77-Ir-192

MAT 7728

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

77-Ir-192

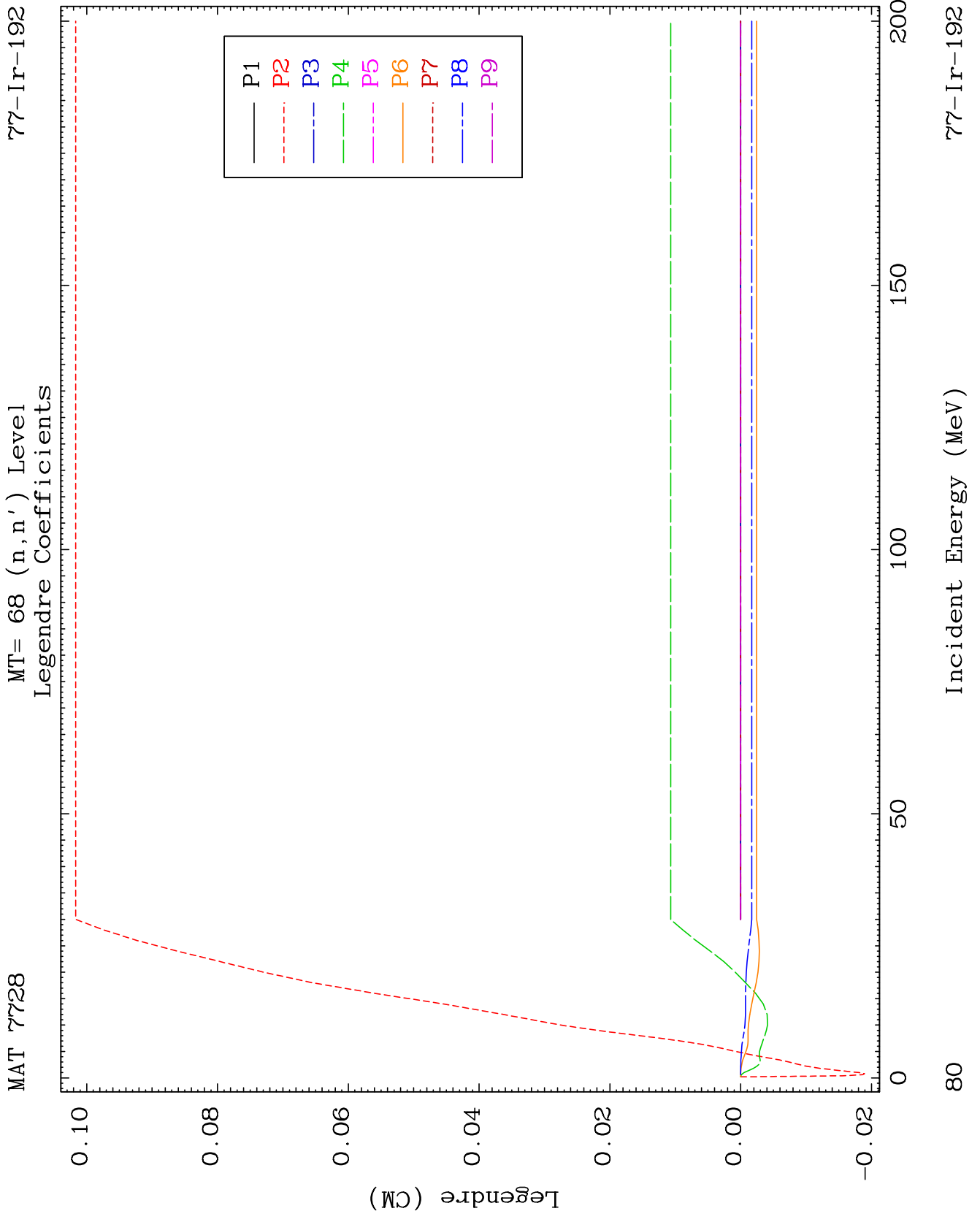


79

Incident Energy (MeV)

77-Ir-192

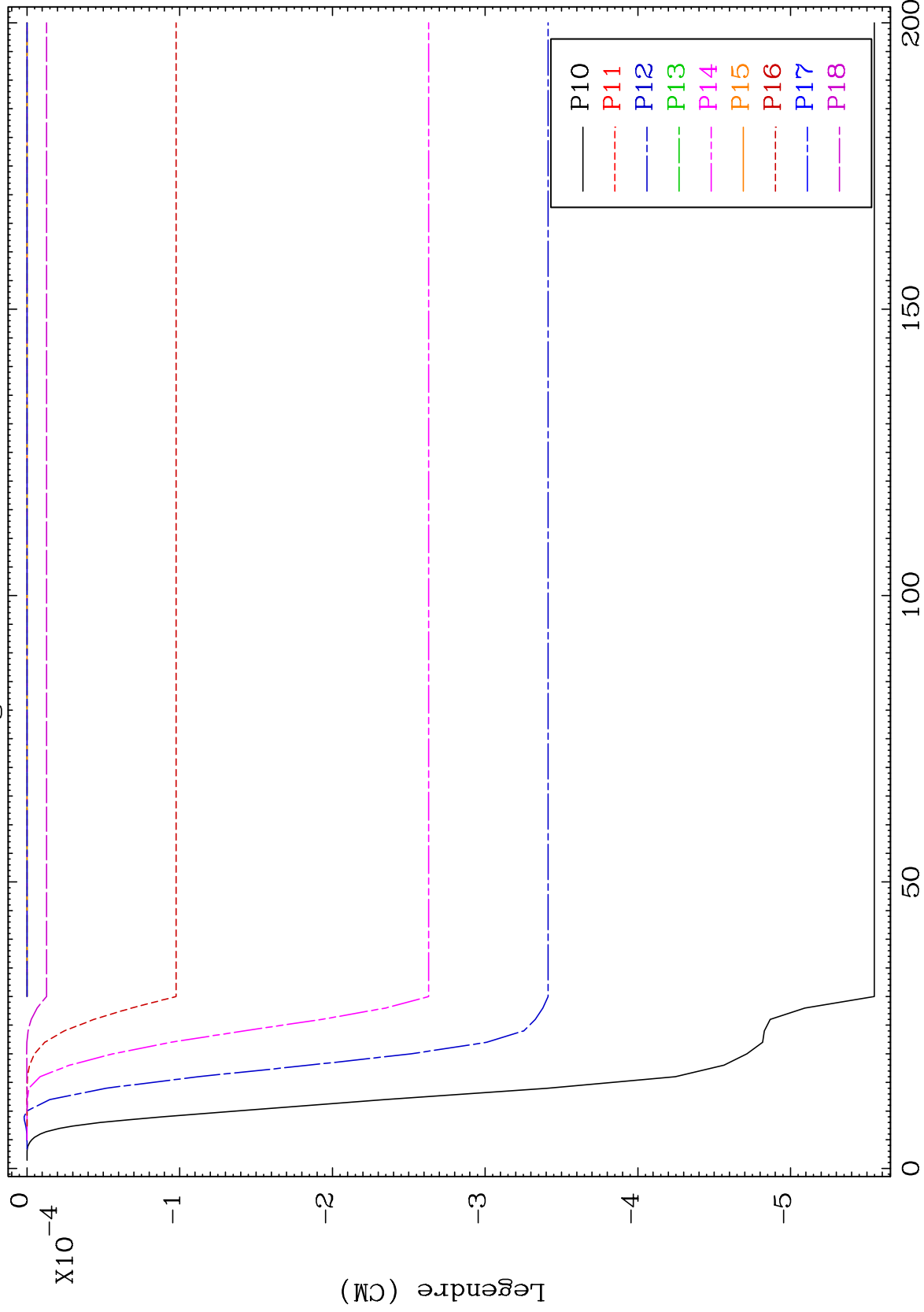




MAT 7728

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

77-Ir-192



81

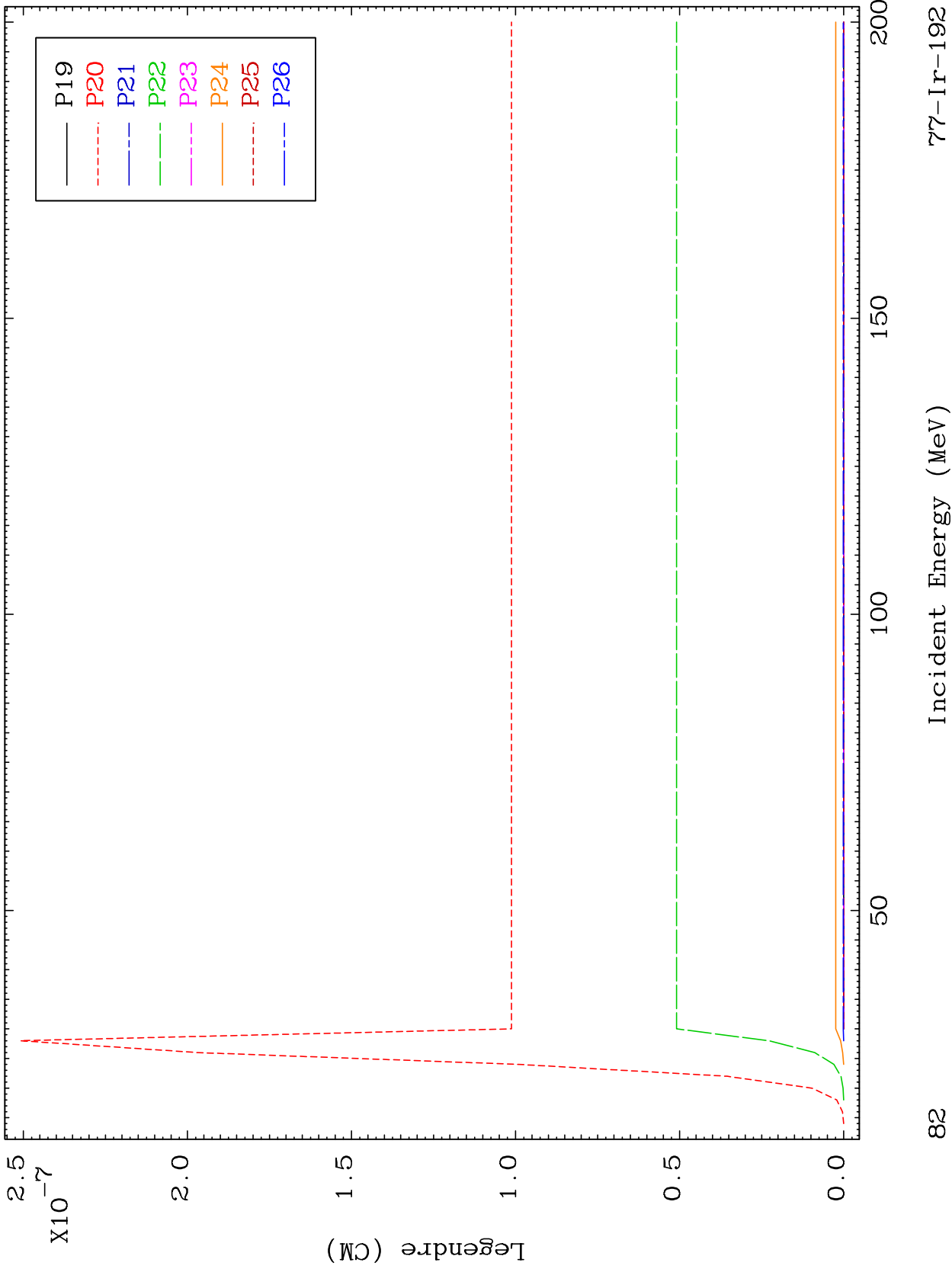
Incident Energy (MeV)

77-Ir-192

MAT 7728

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

77-Ir-192



82

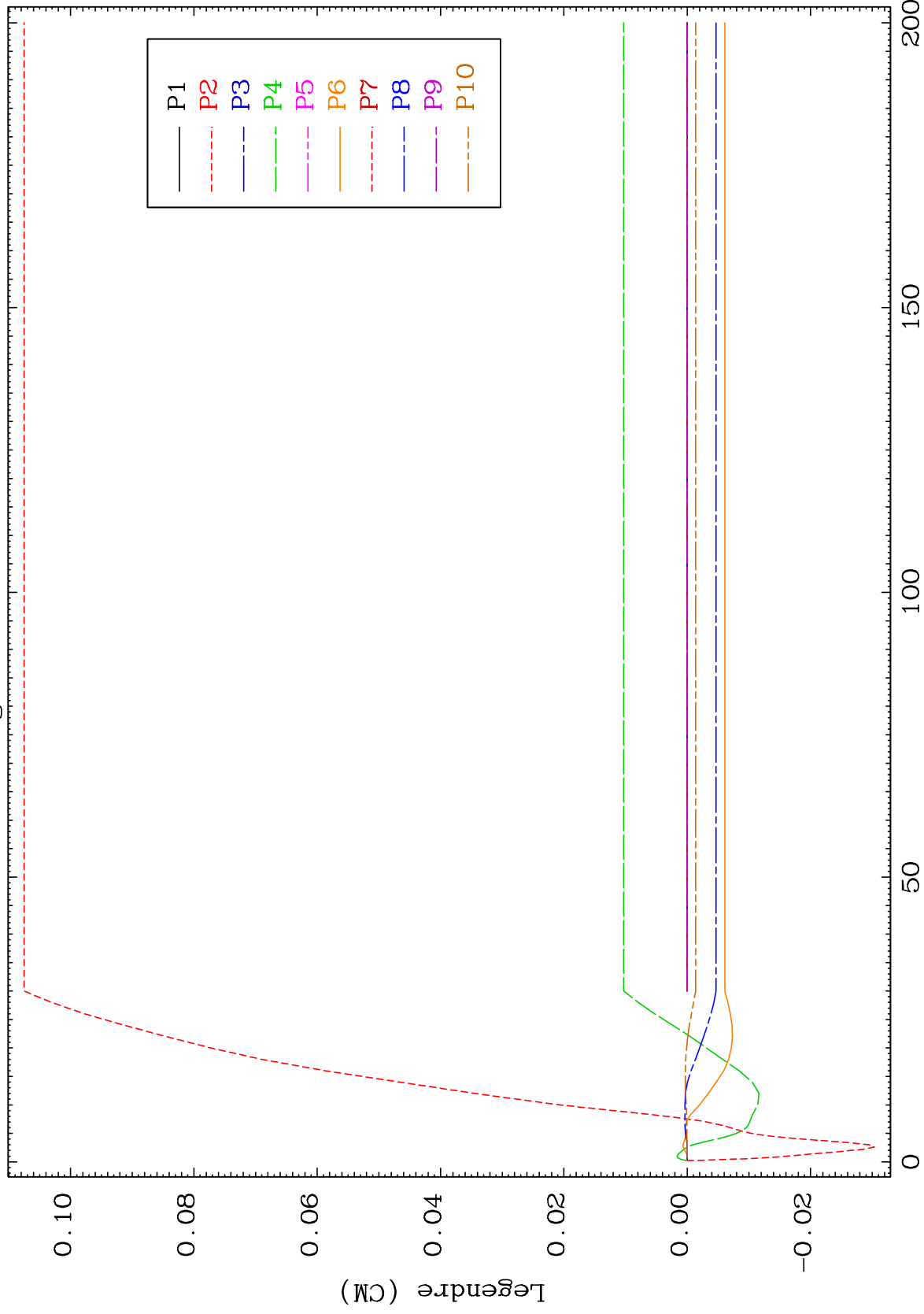
Incident Energy (MeV)

77-Ir-192

MAT 7728

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

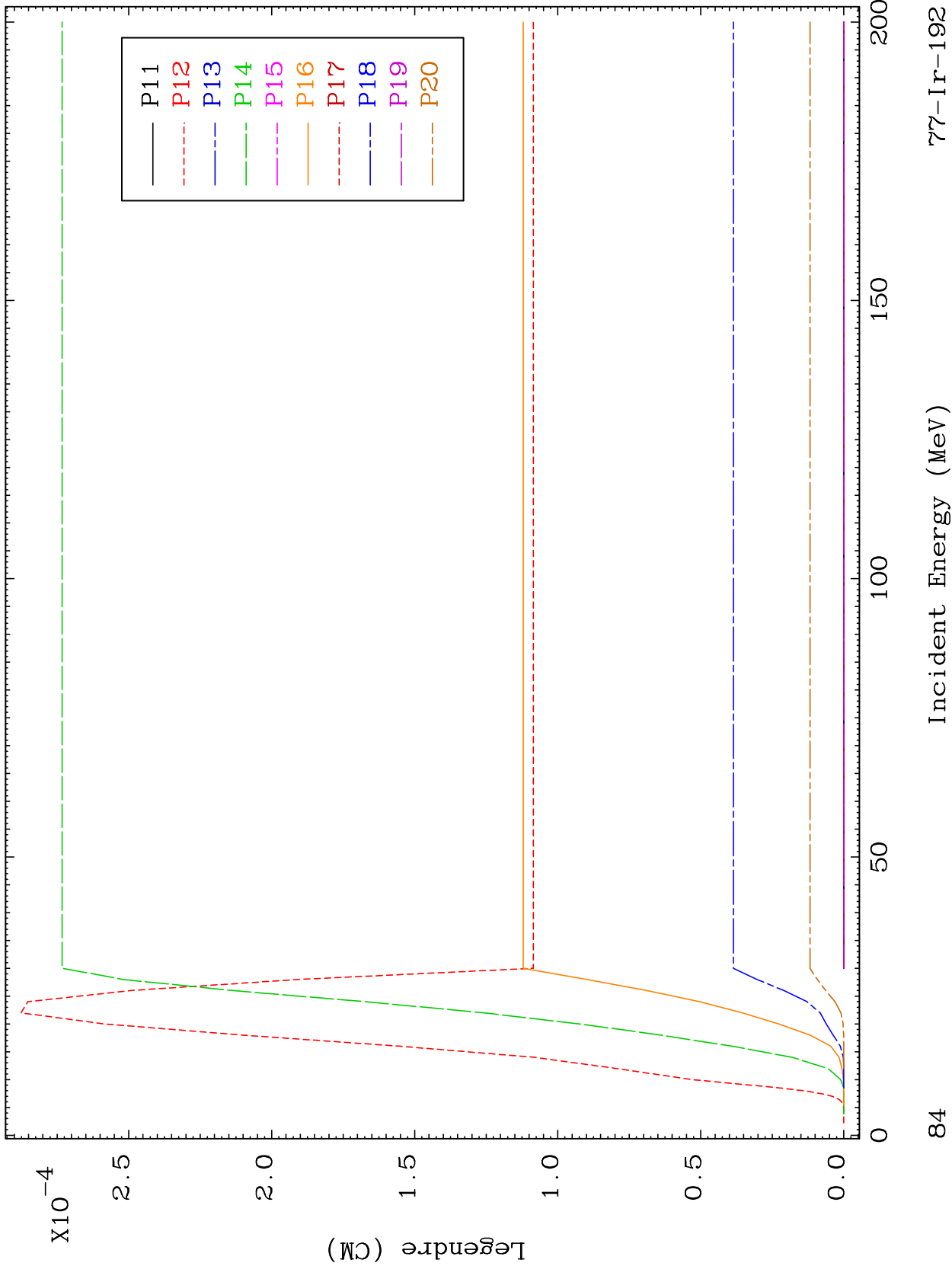
77-Ir-192

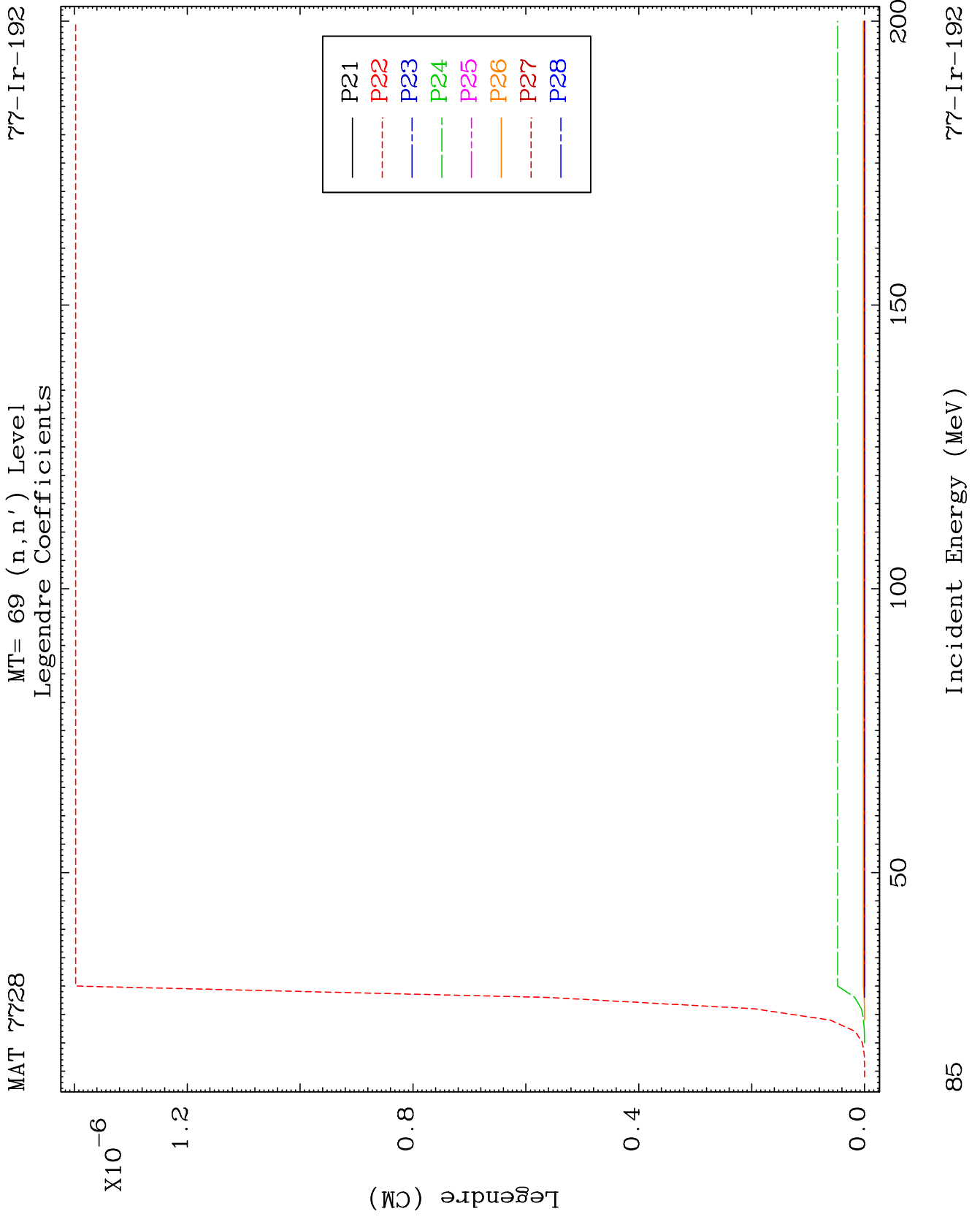


77-Ir-192

Incident Energy (MeV)

83

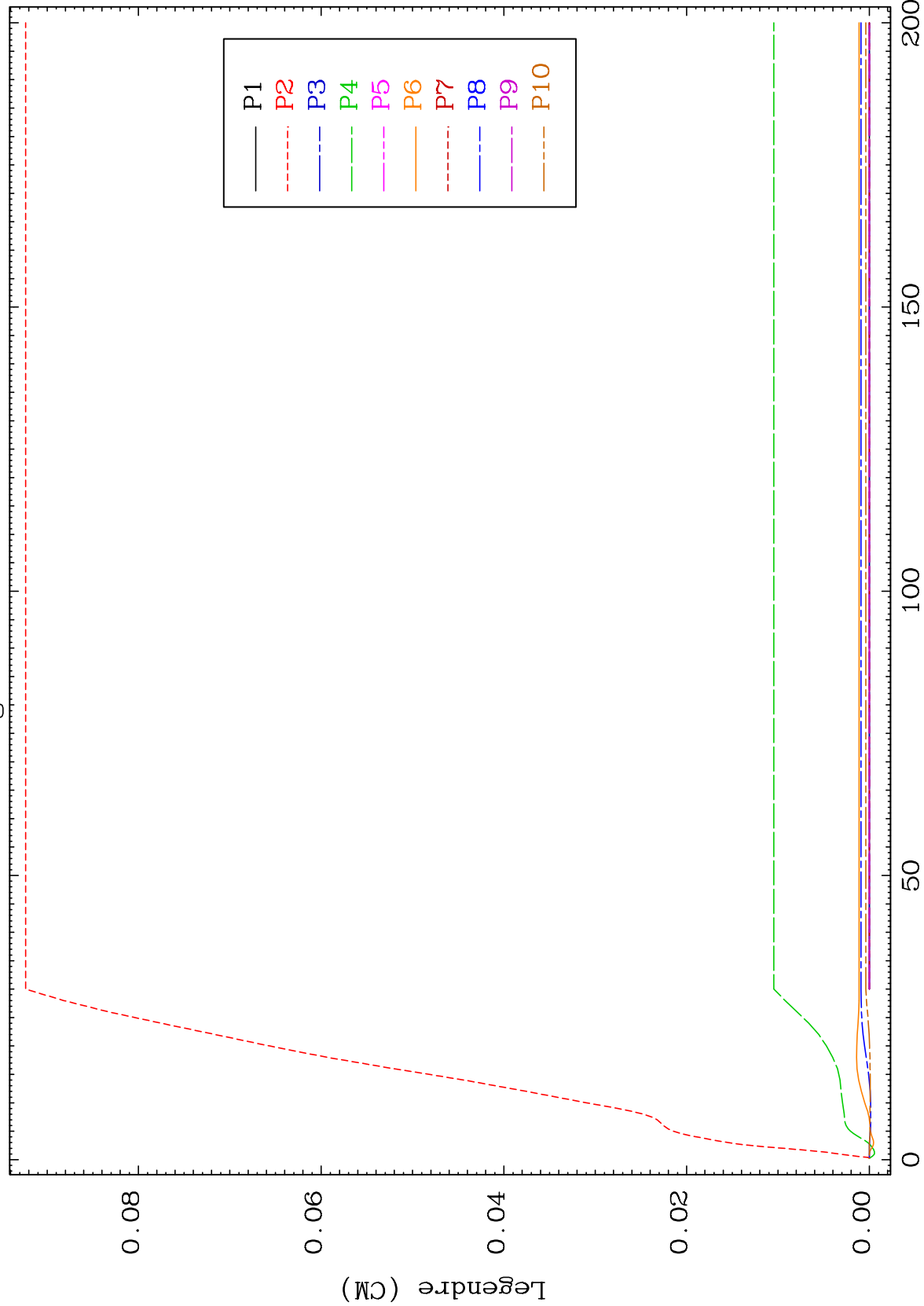




MAT 7728

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

77-Ir-192



86

Incident Energy (MeV)

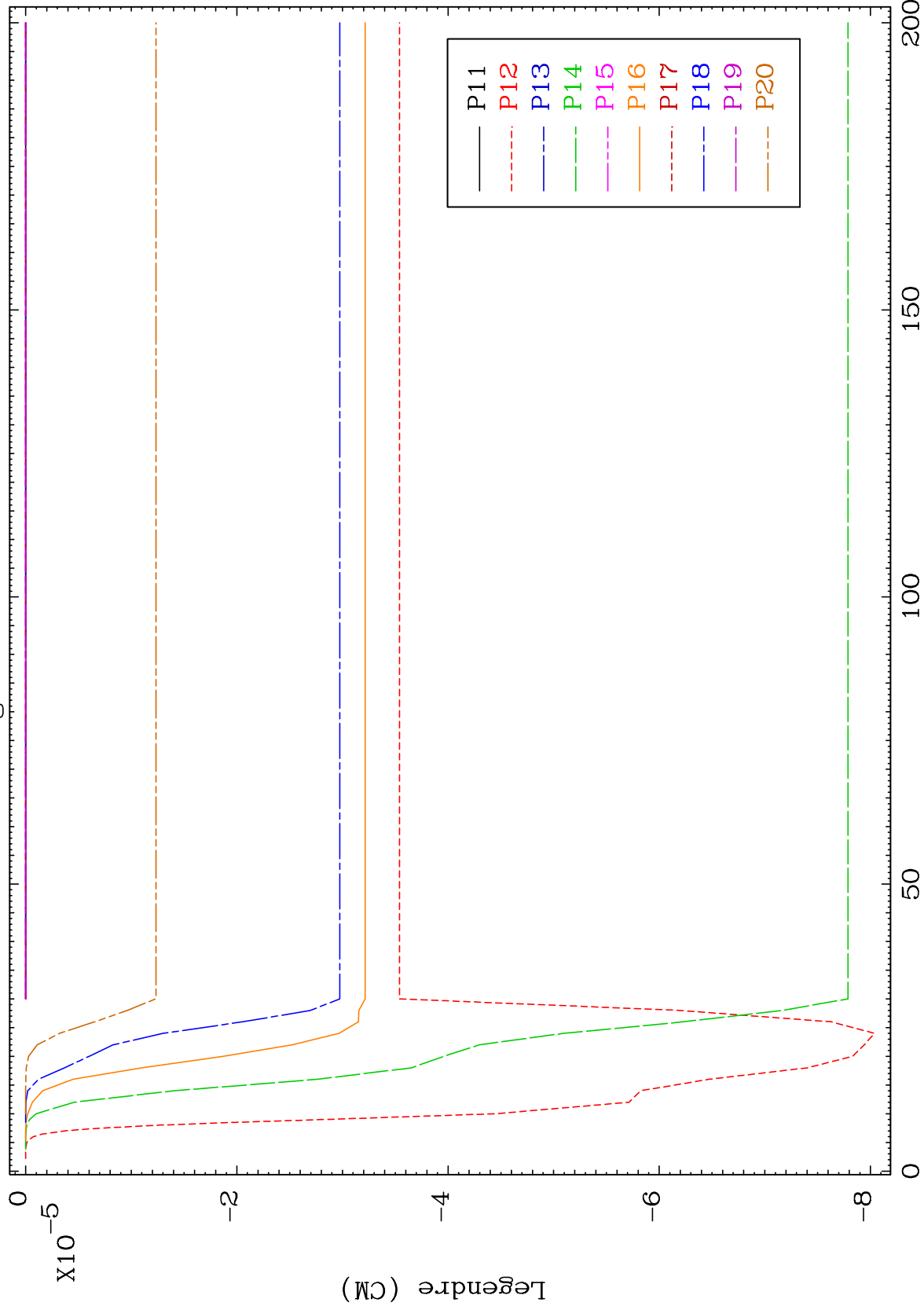
77-Ir-192

MAT 7728

MT= 70 (n,n') Level

77-Ir-192

Legendre Coefficients

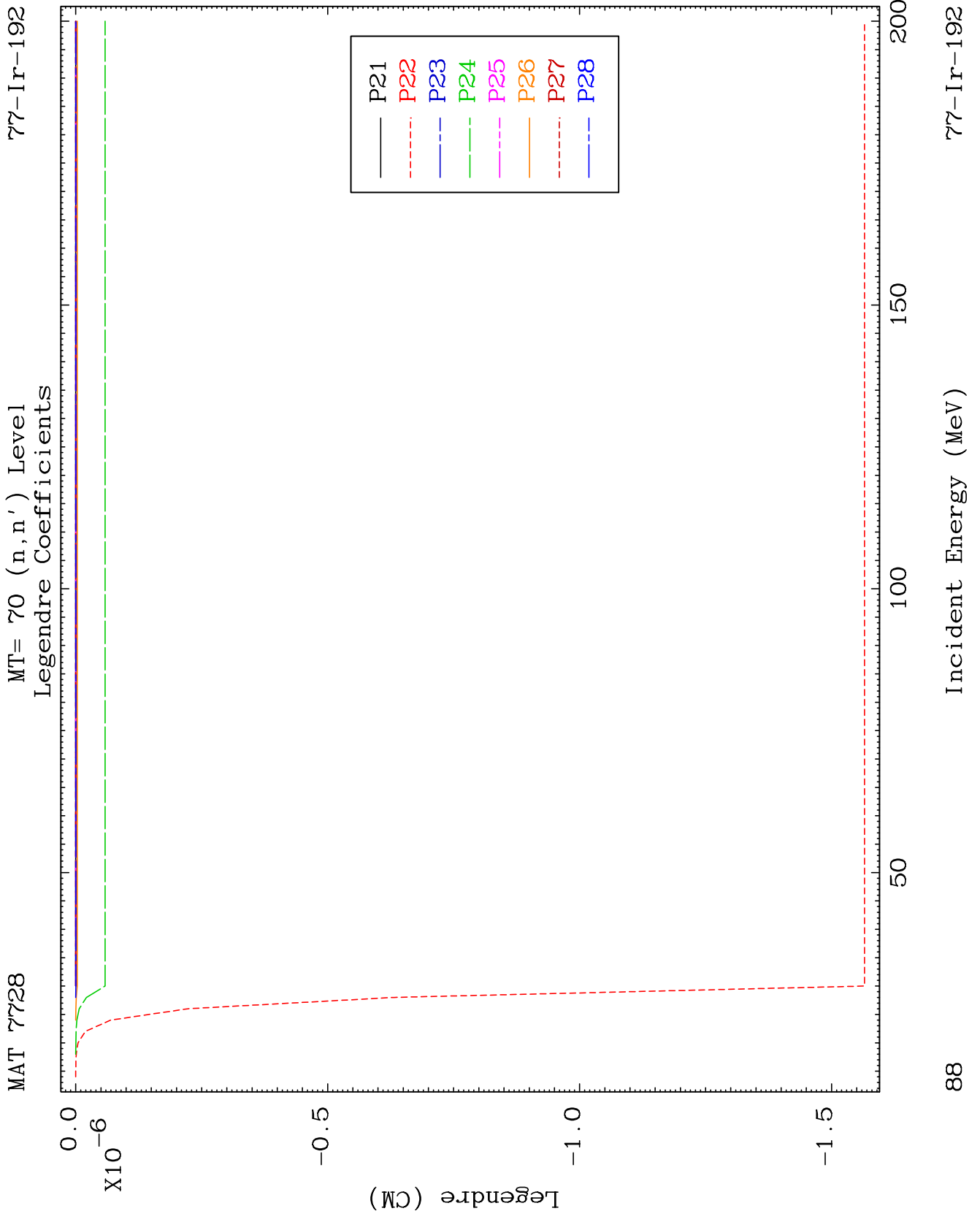


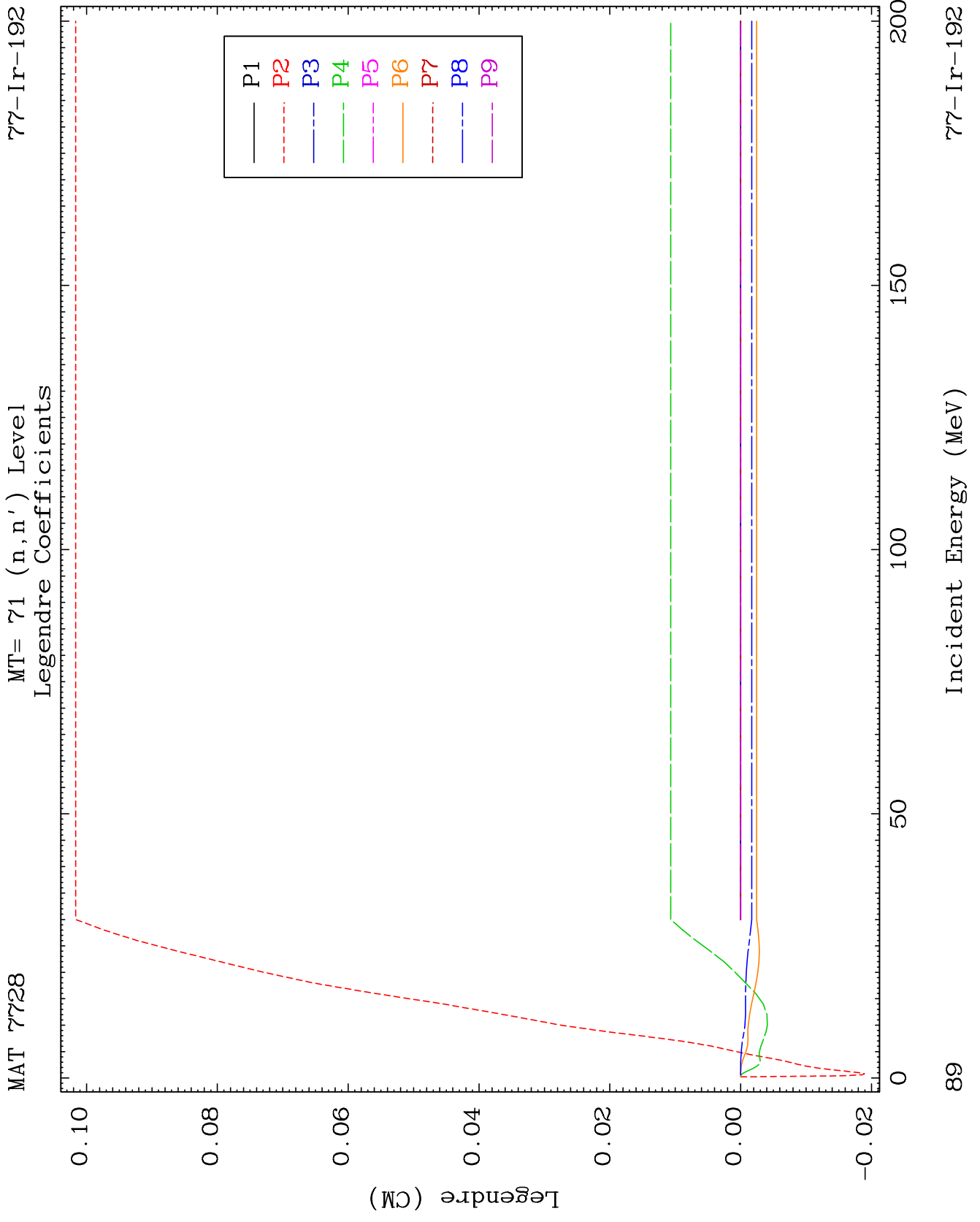
77-Ir-192

Incident Energy (MeV)

87





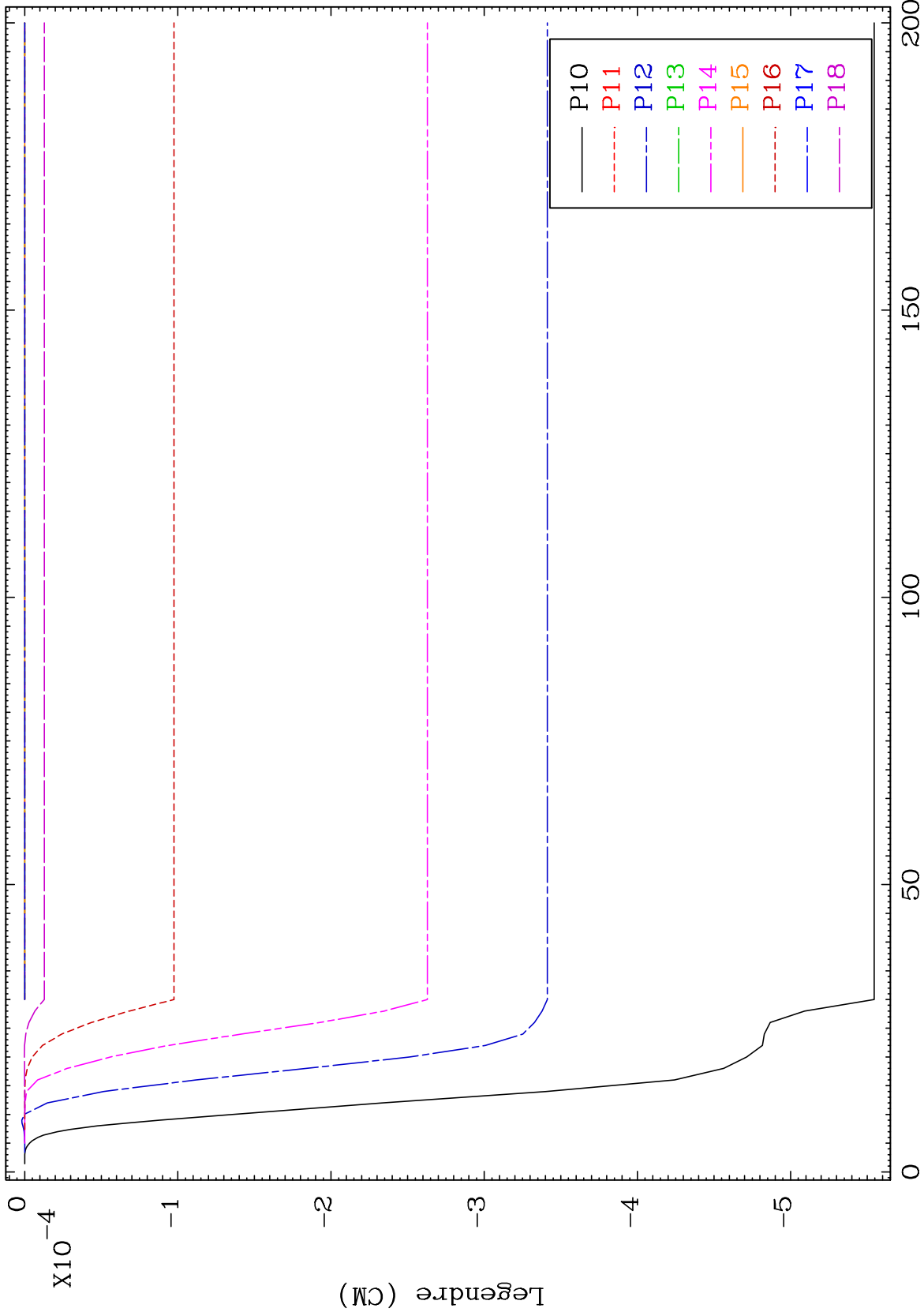


MAT 7728

MT= 71 (n,n') Level

77-Ir-192

Legendre Coefficients



90

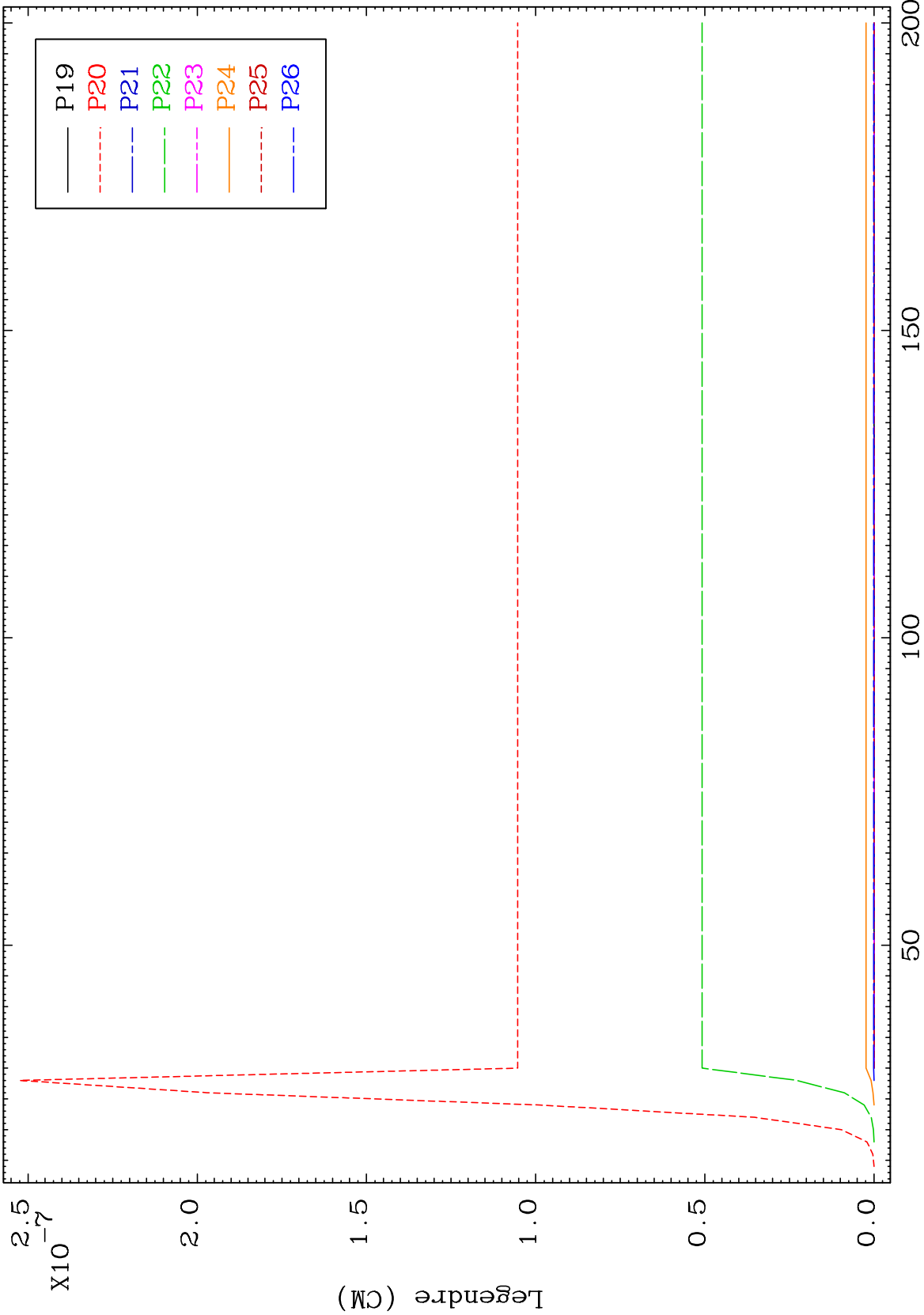
Incident Energy (MeV)

77-Ir-192

MAT 7728

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

77-Ir-192



91

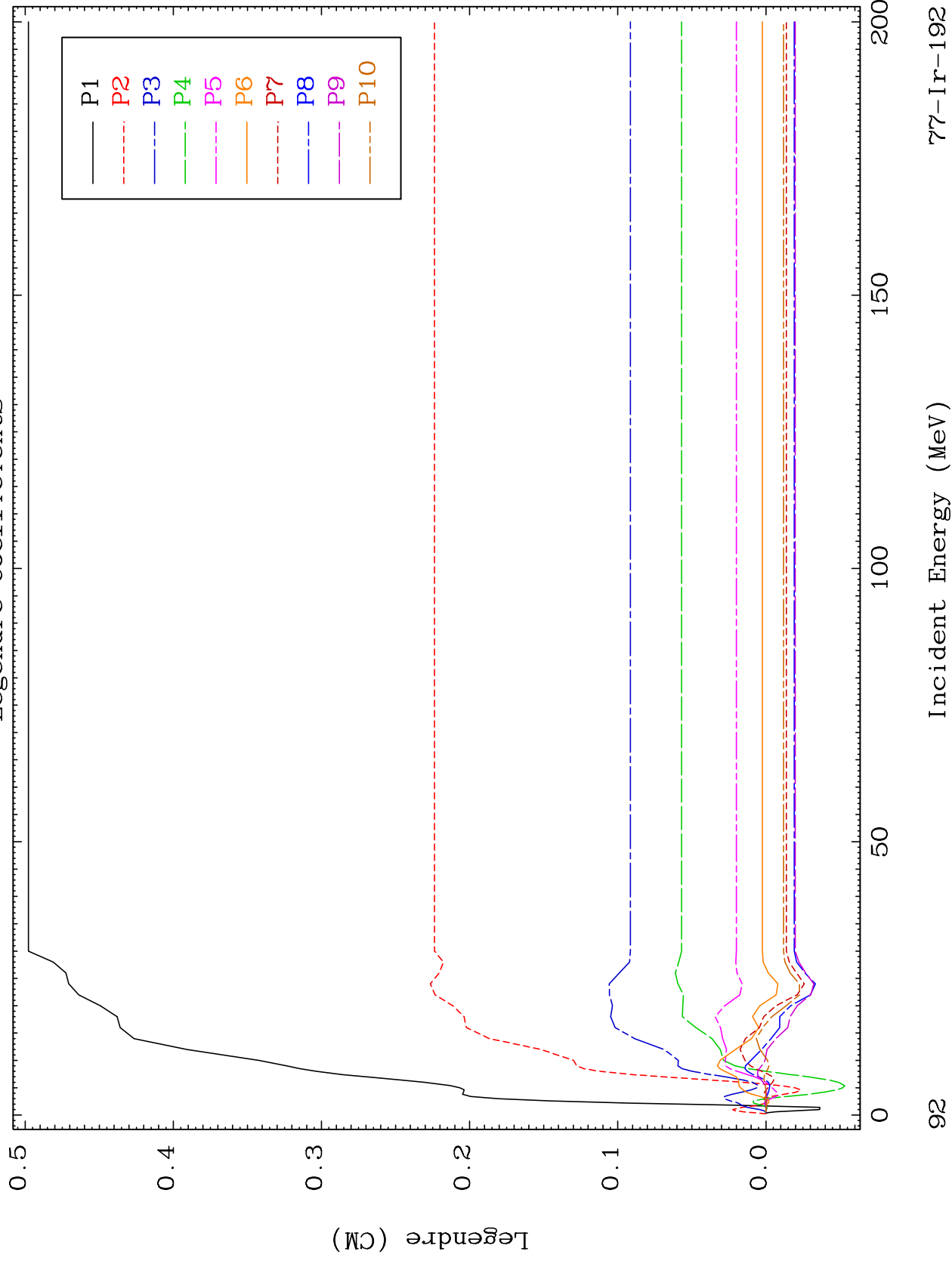
Incident Energy (MeV)

77-Ir-192

MAT 7728

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

77-Ir-192



92

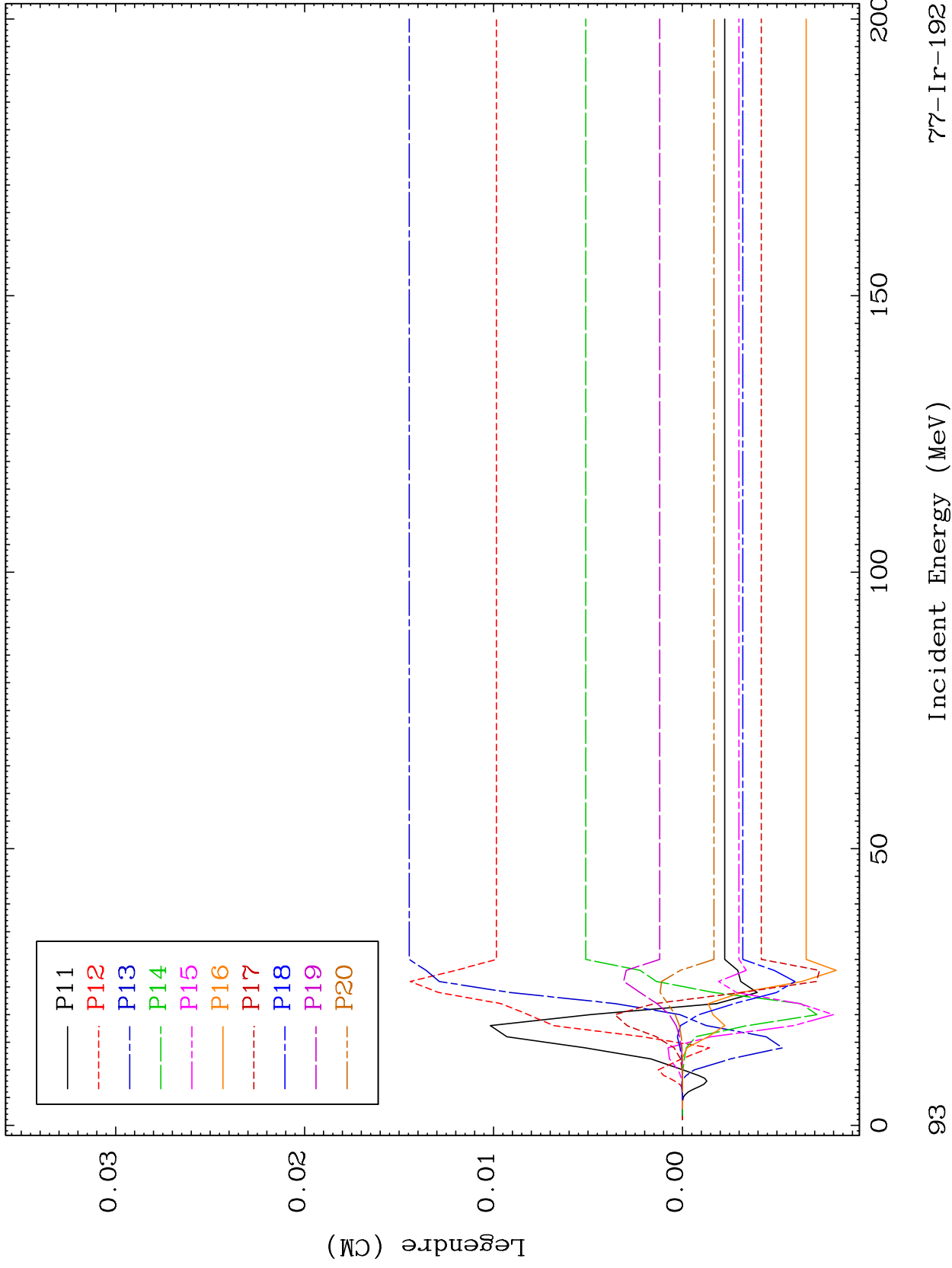
Incident Energy (MeV)

77-Ir-192

MAT 7728

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

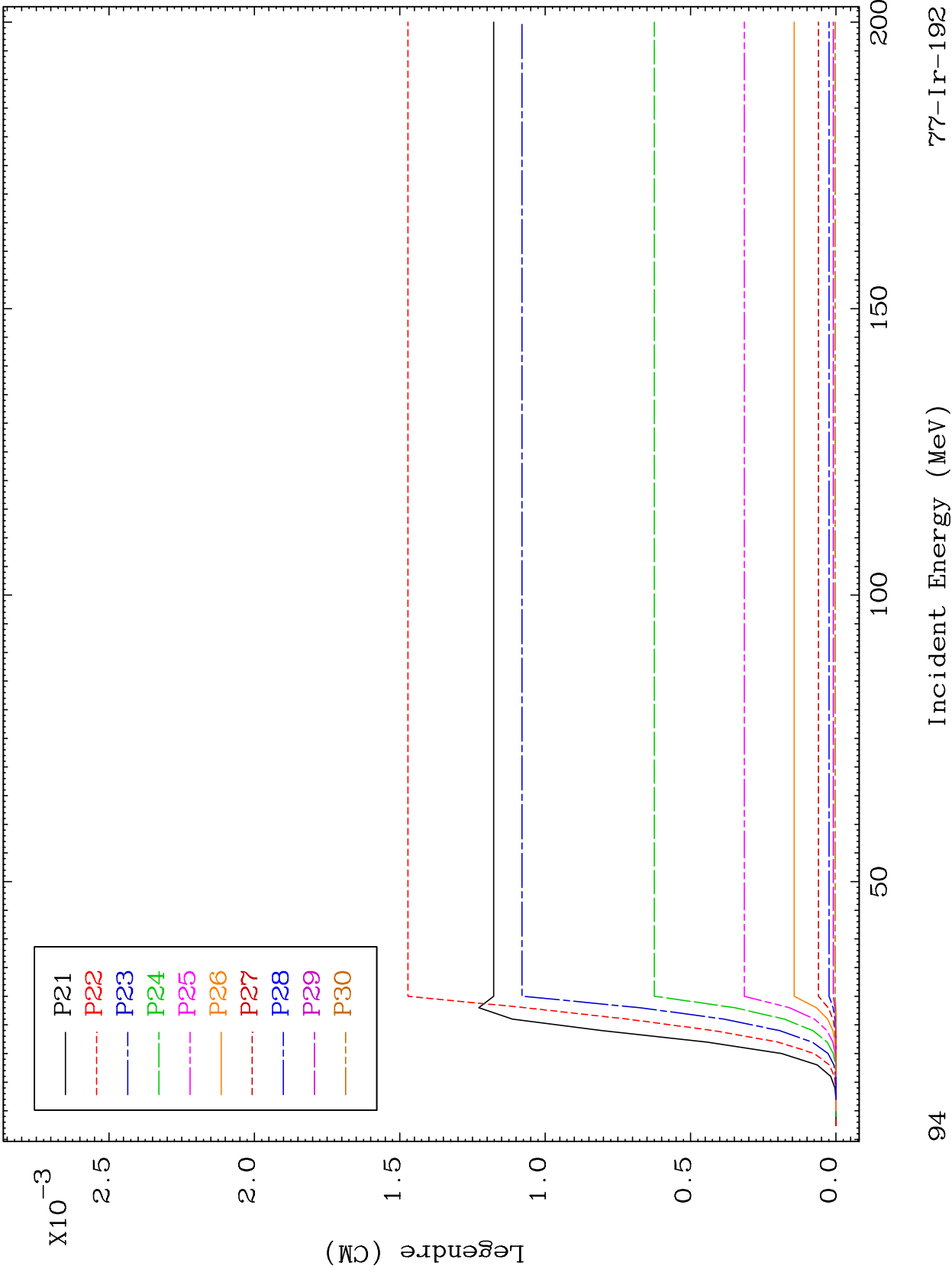
77-Ir-192



93

Incident Energy (MeV)

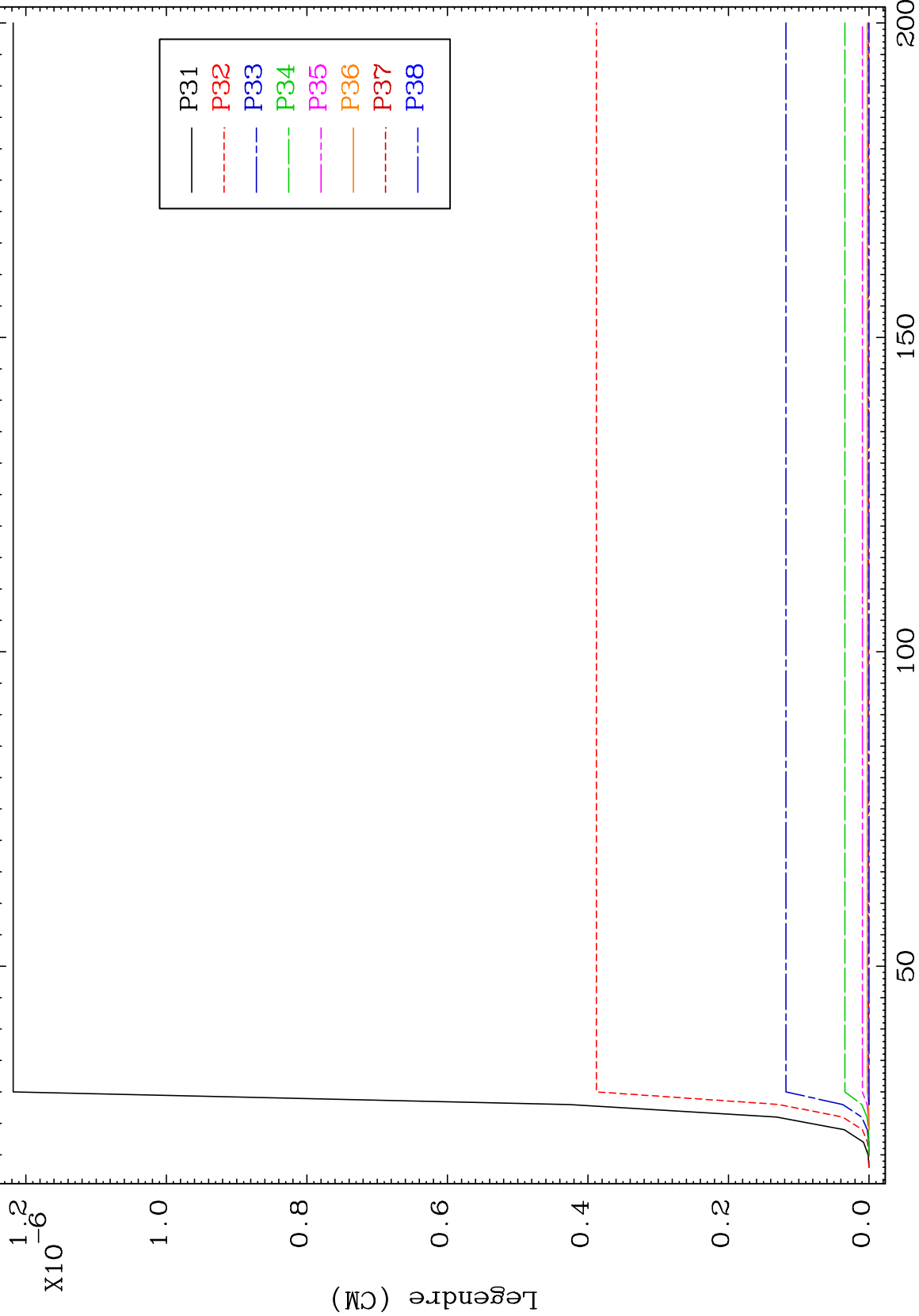
77-Ir-192



MAT 7728

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

77-Ir-192



95

Incident Energy (MeV)

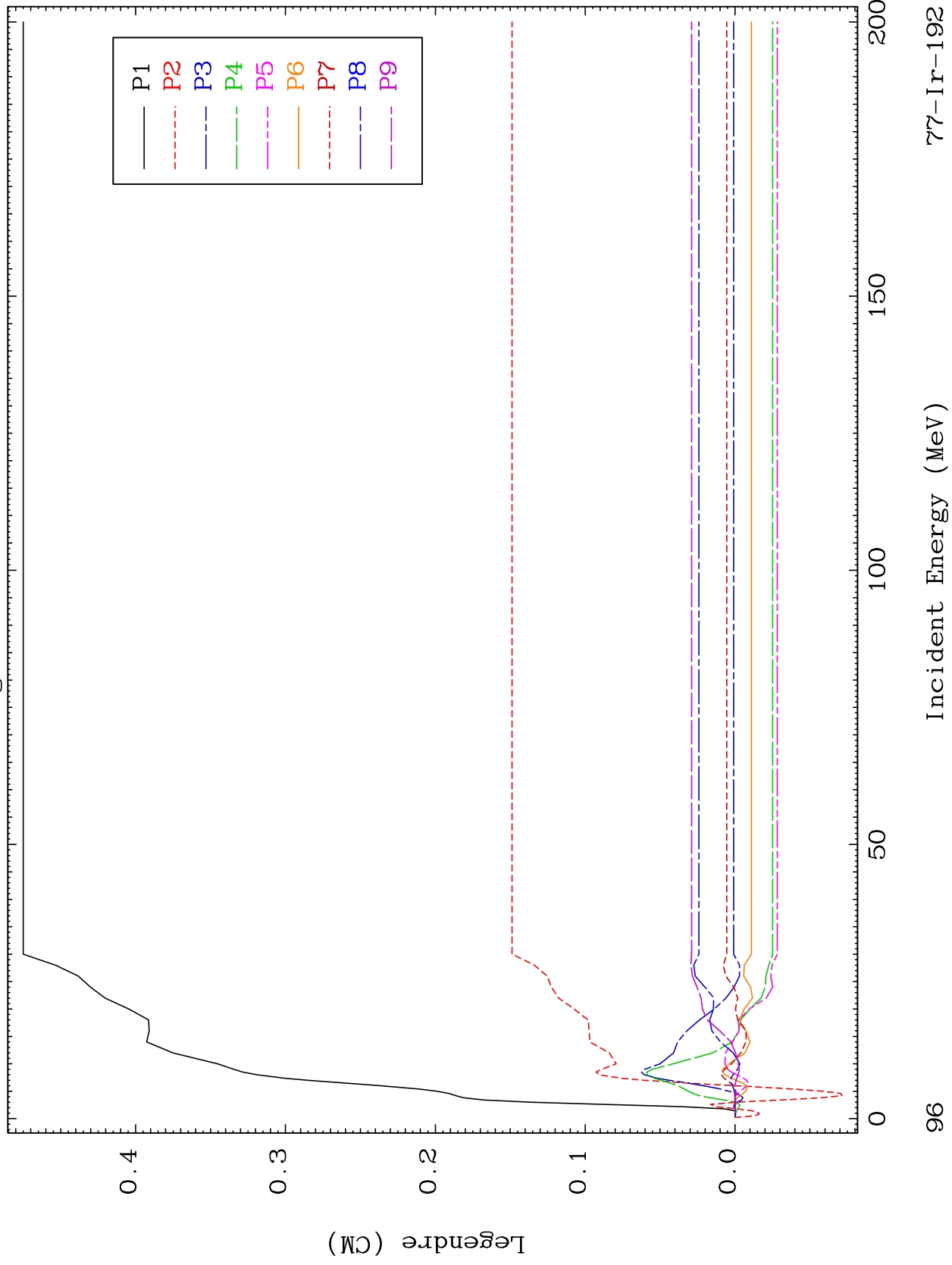
77-Ir-192



MAT 7728

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

77-Ir-192



77-Ir-192

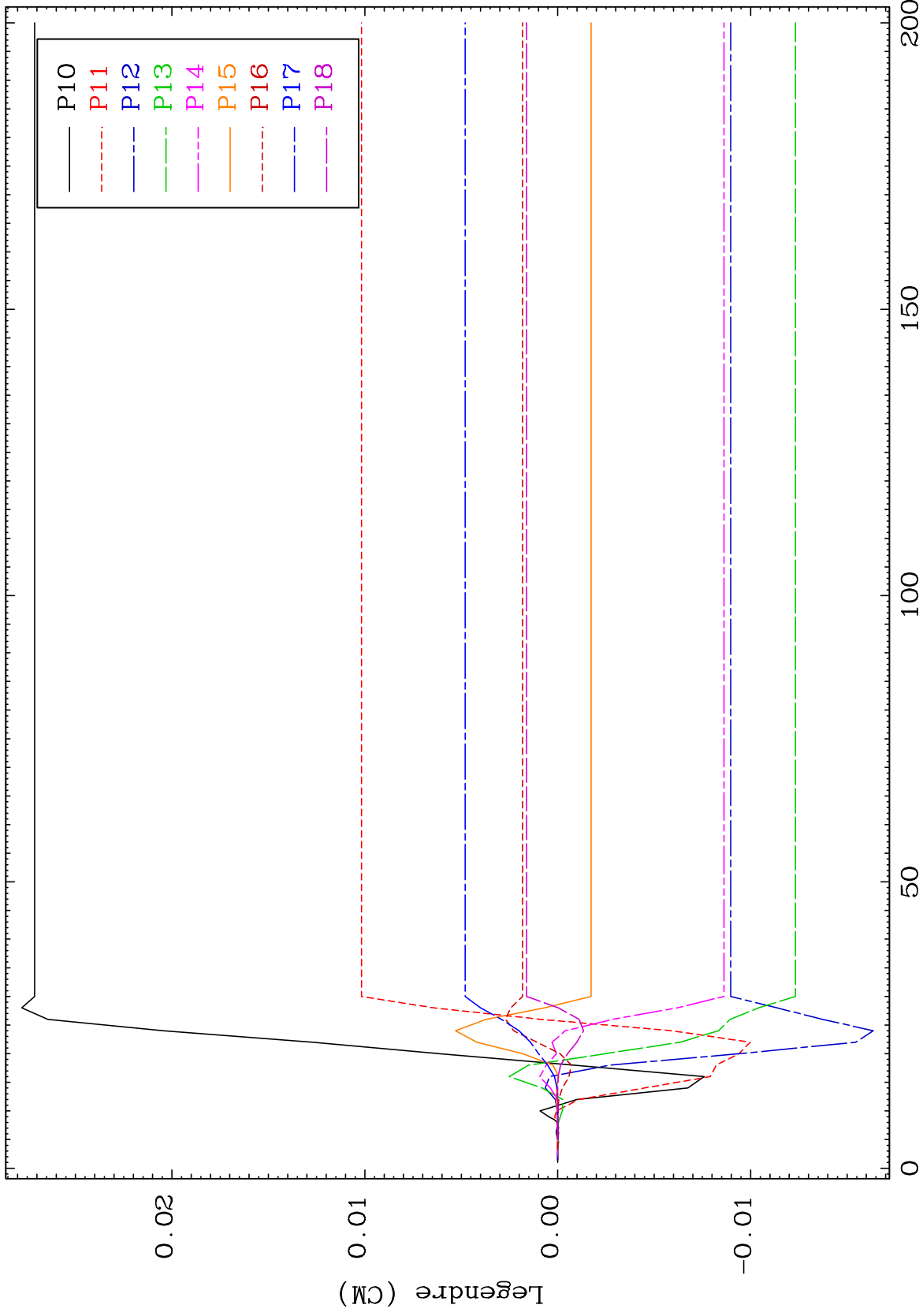
Incident Energy (MeV)

96

MAT 7728

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

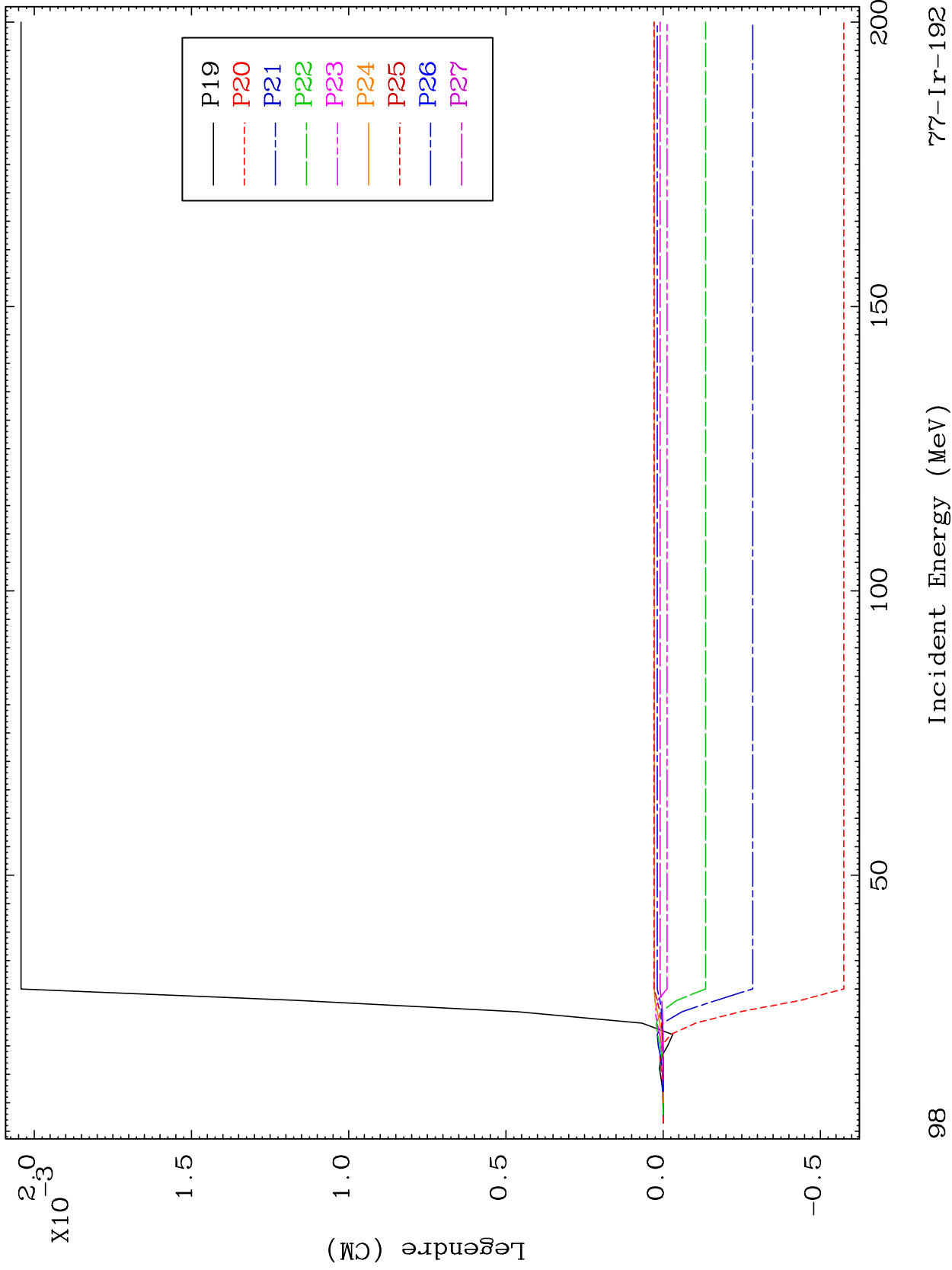
77-Ir-192



97

Incident Energy (MeV)

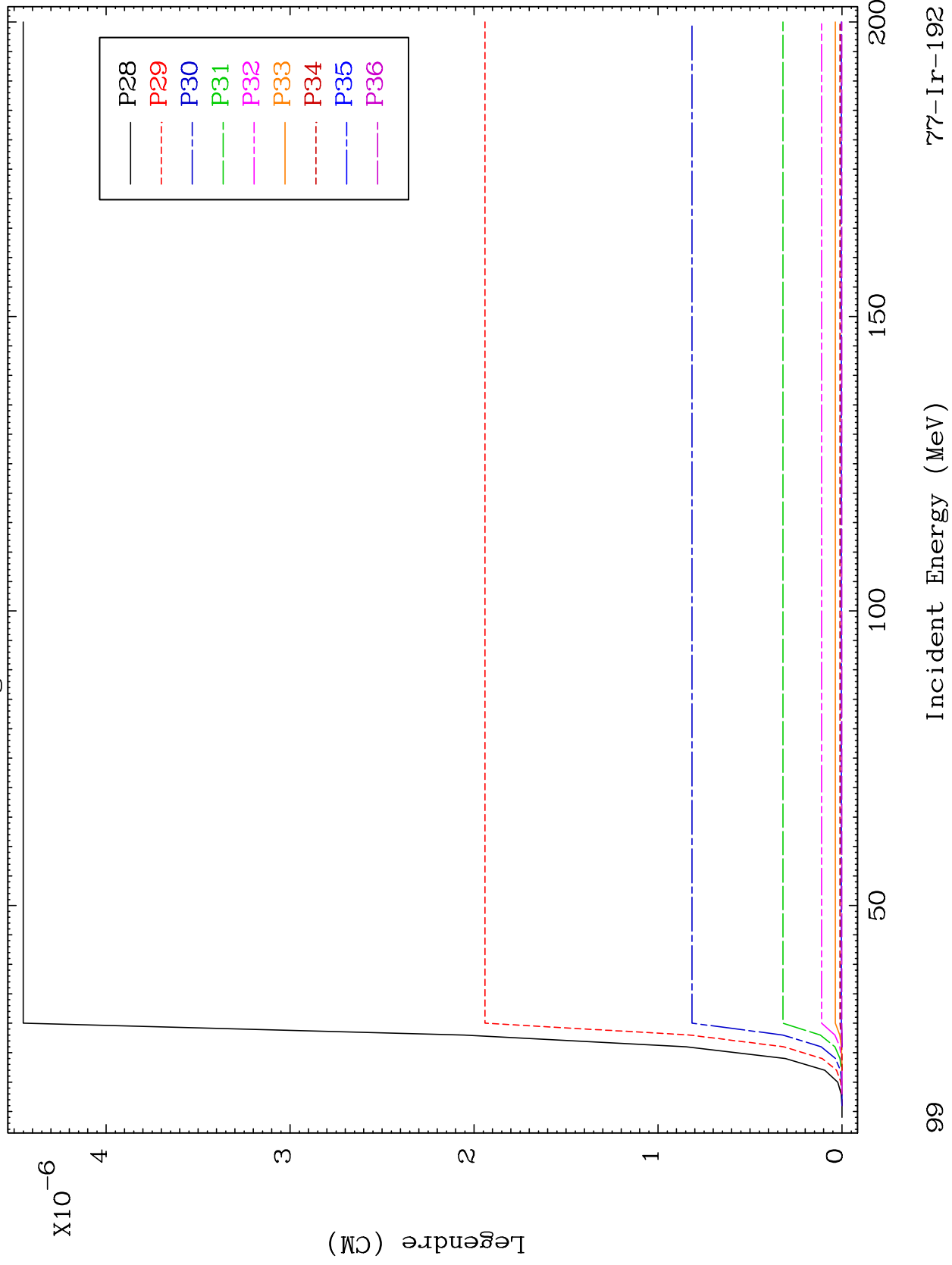
77-Ir-192



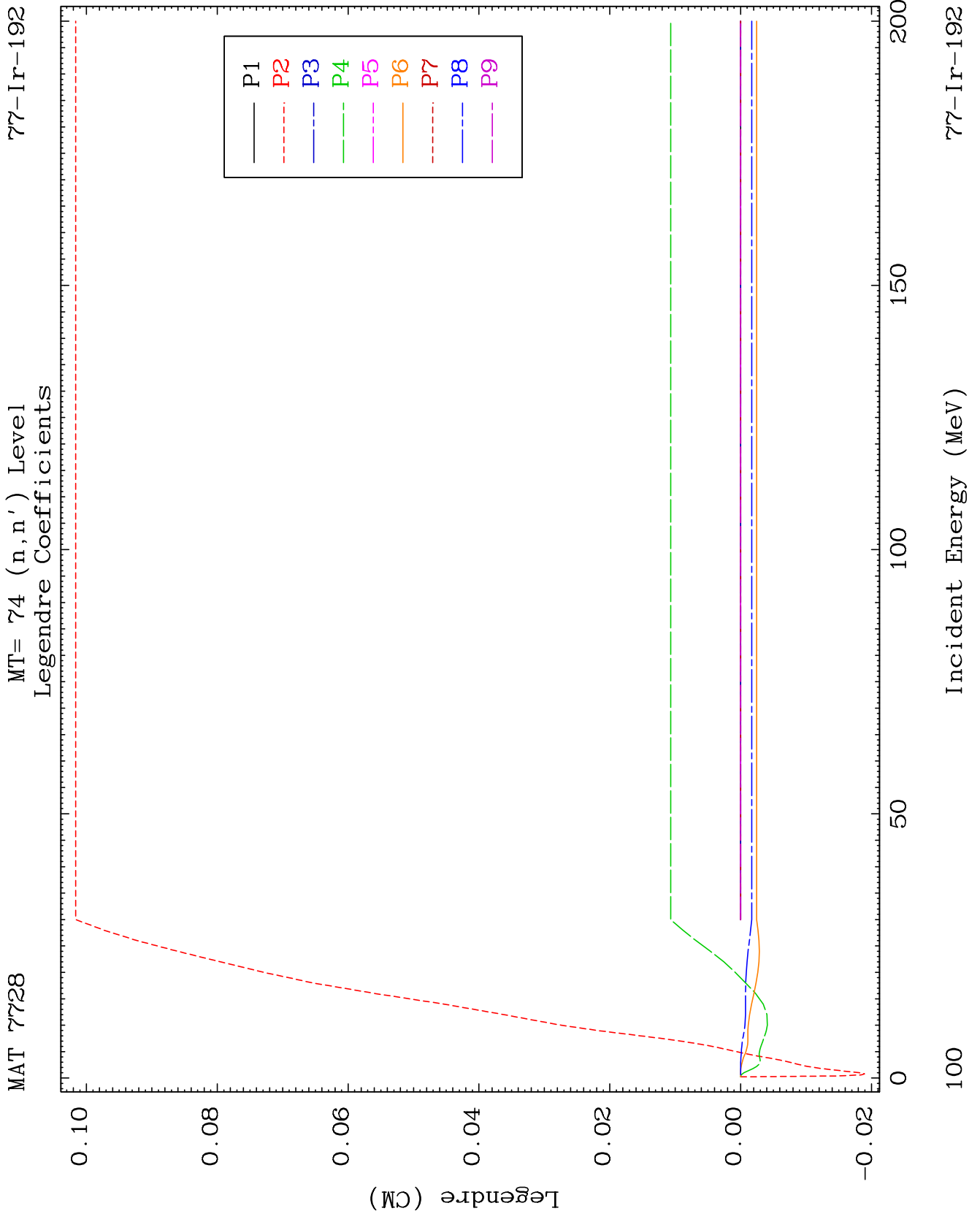
MAT 7728

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

77-Ir-192



99

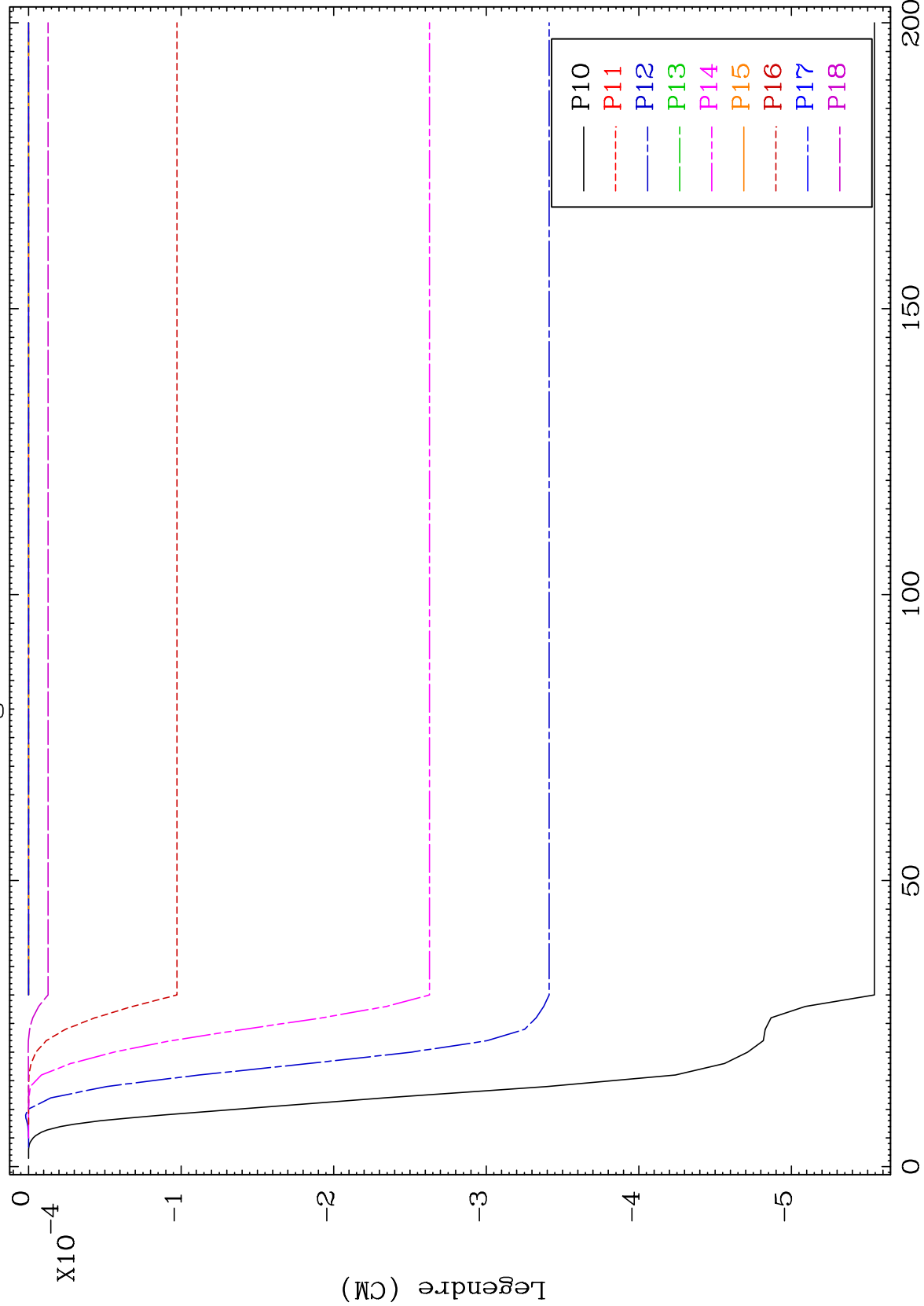


MAT 7728

MT= 74 (n,n') Level

77-Ir-192

Legendre Coefficients



77-Ir-192

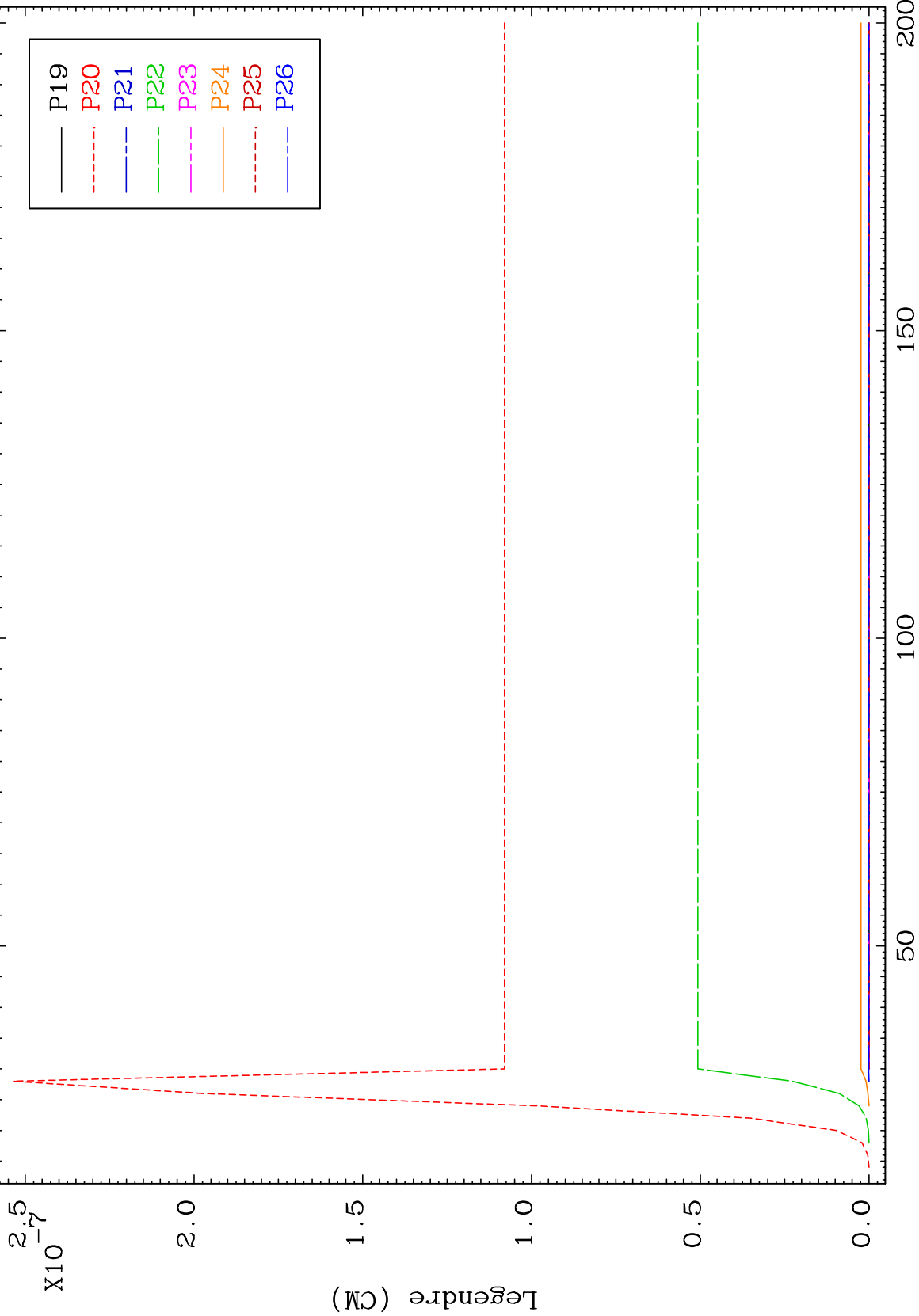
Incident Energy (MeV)

101

MAT 7728

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

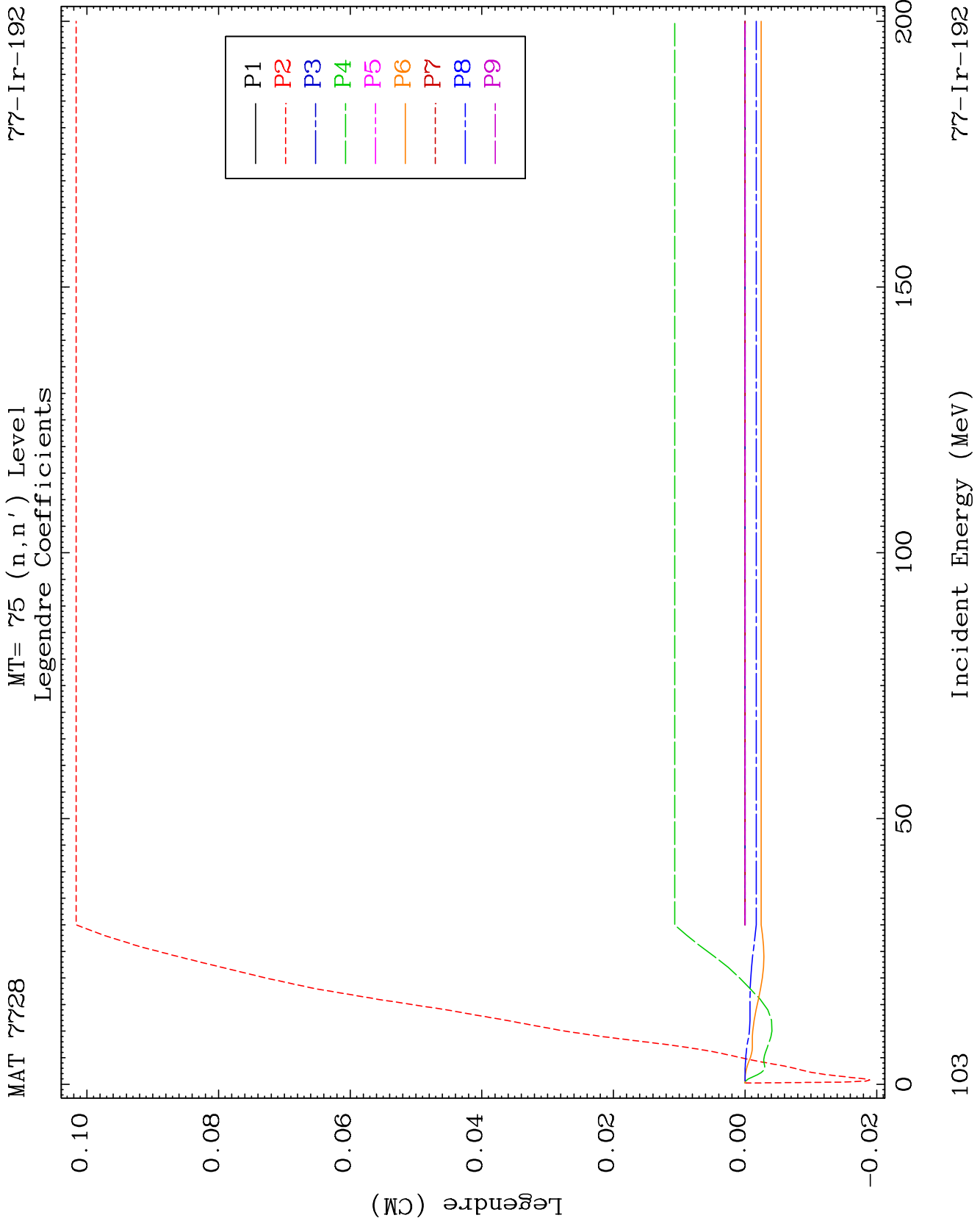
77-Ir-192



102

Incident Energy (MeV)

77-Ir-192



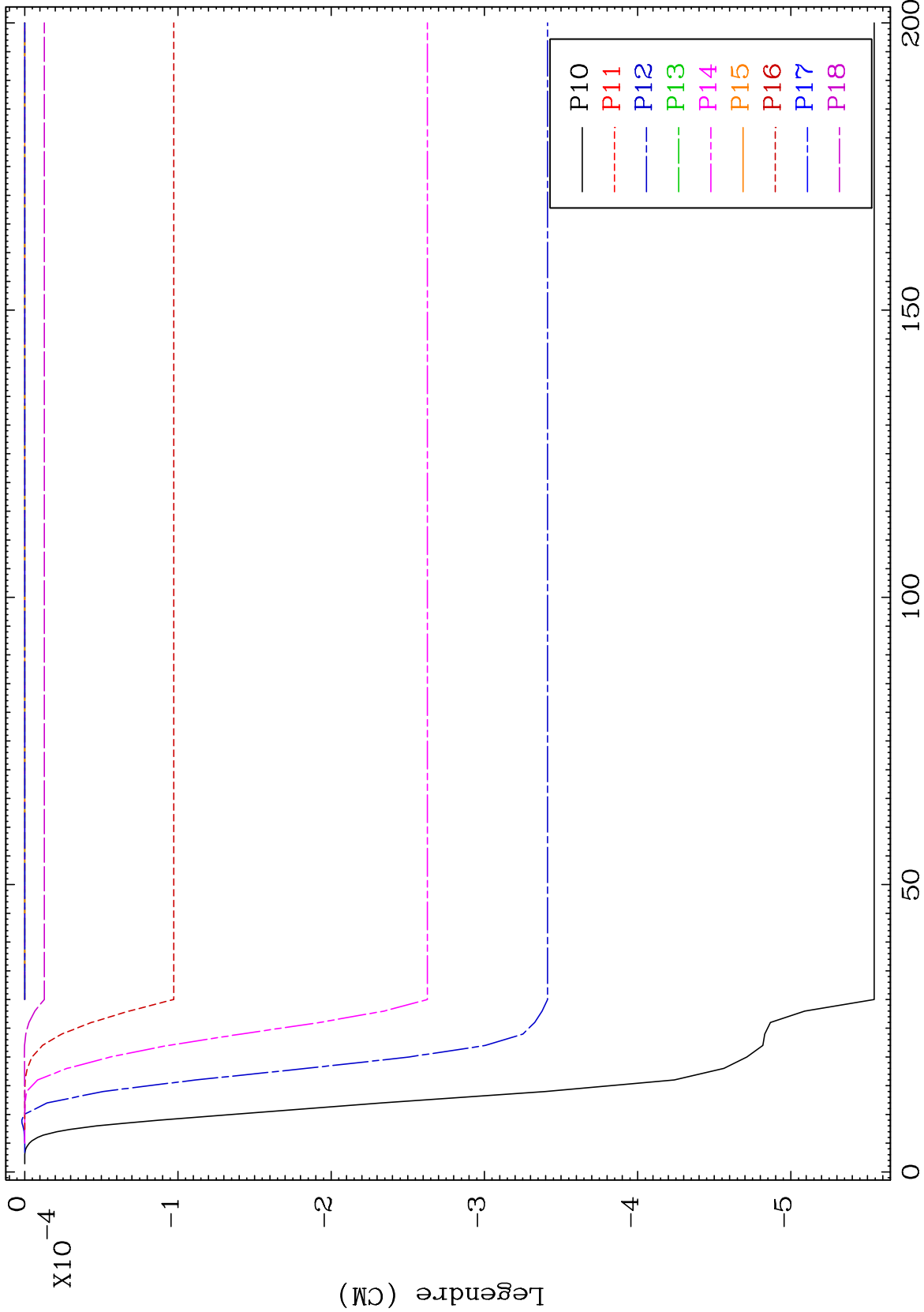


MAT 7728

MT= 75 (n,n') Level

77-Ir-192

Legendre Coefficients



104

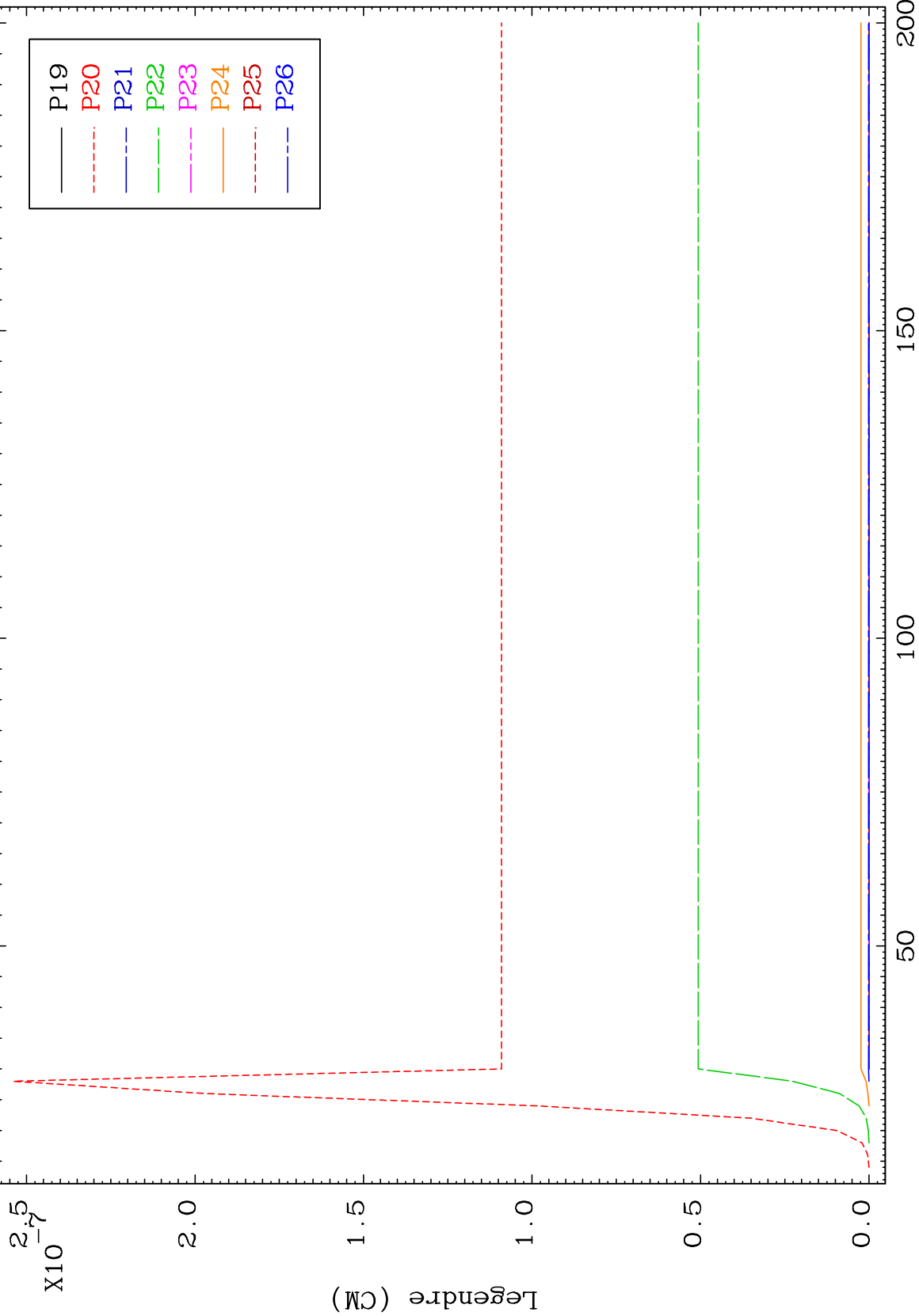
Incident Energy (MeV)

77-Ir-192

MAT 7728

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

77-Ir-192



105

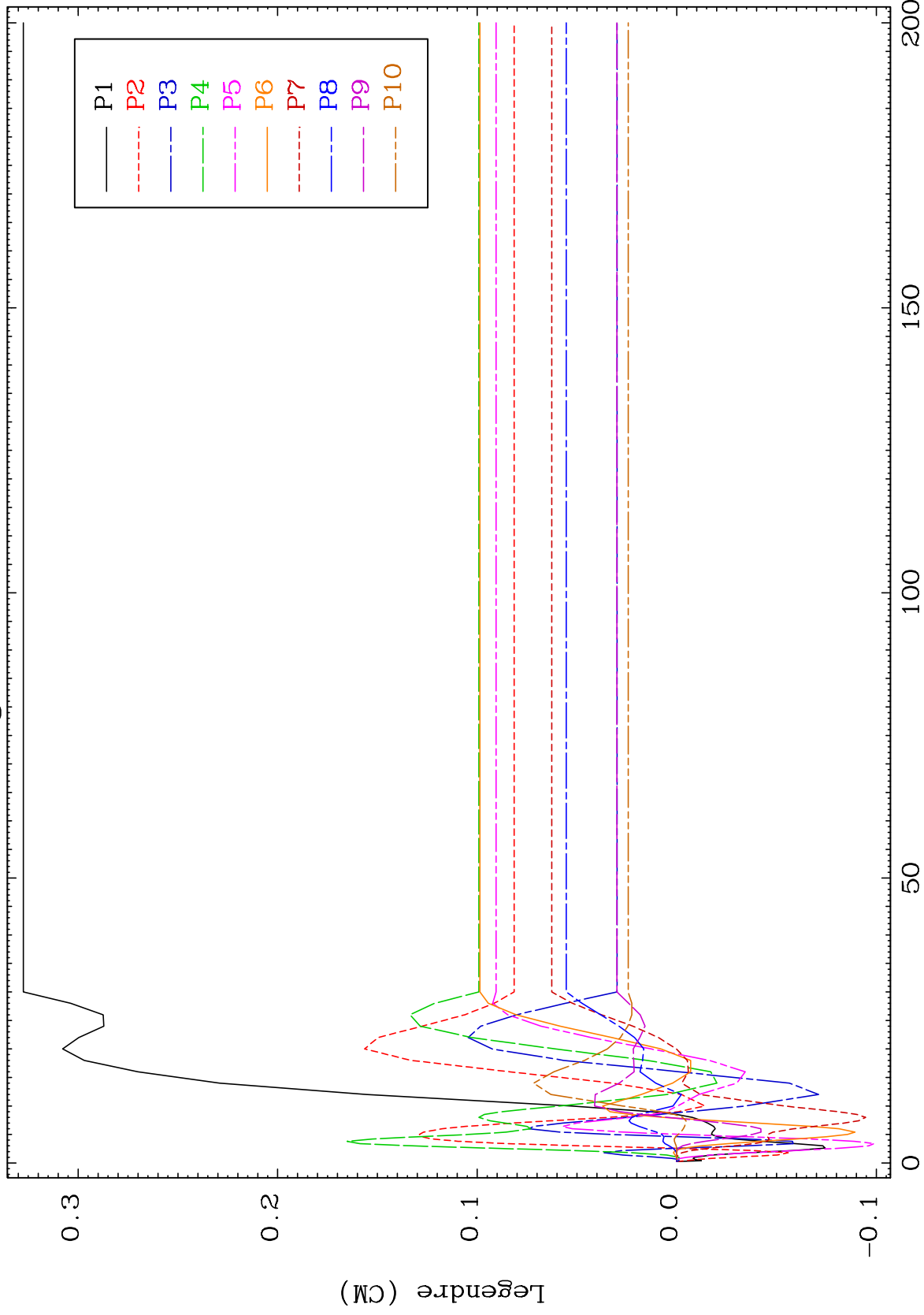
Incident Energy (MeV)

77-Ir-192

MAT 7728

MT= 76 (n,n') Level  
Legendre Coefficients

77-Ir-192



77-Ir-192

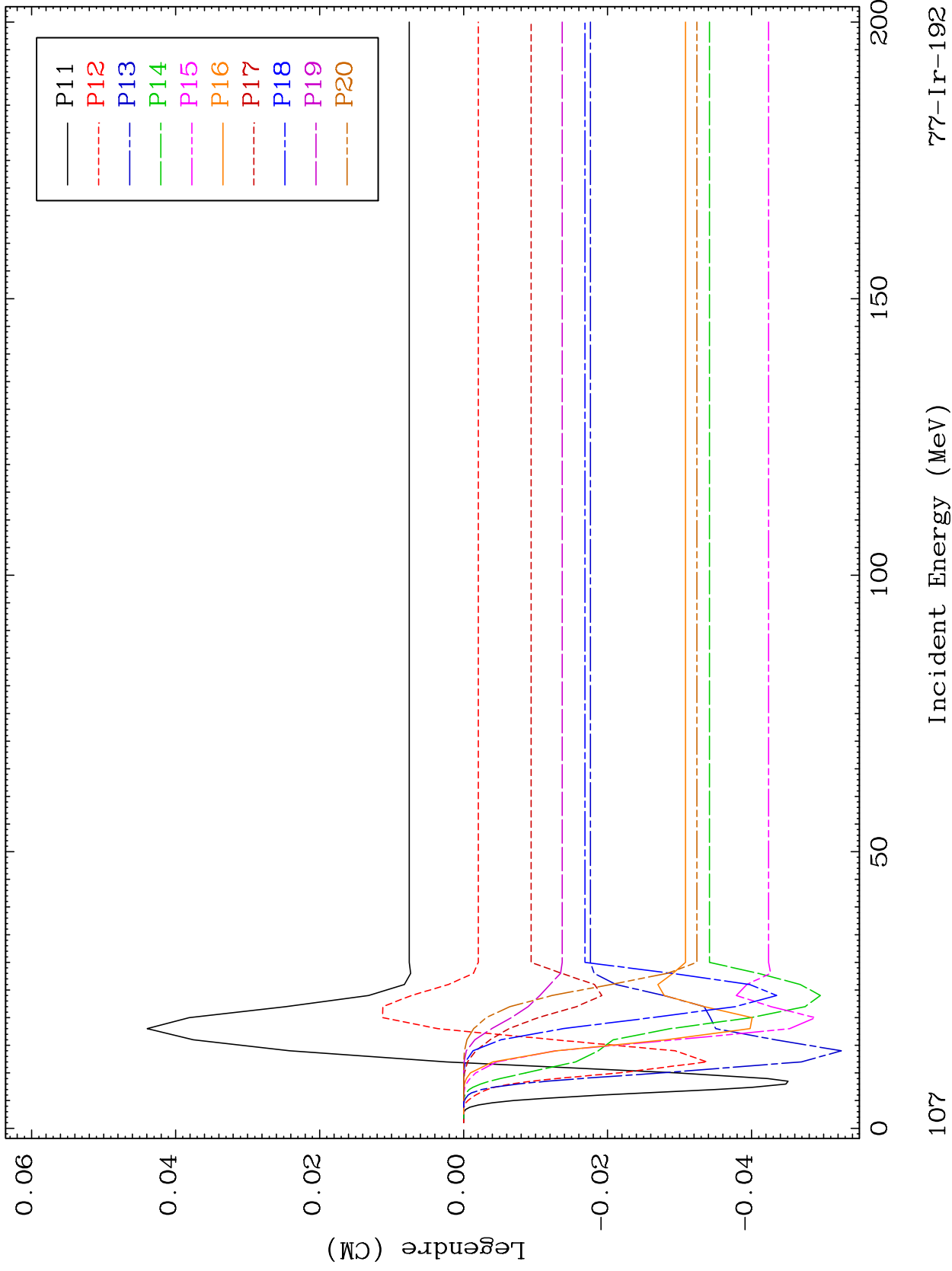
Incident Energy (MeV)

106

MAT 7728

MT= 76 (n,n') Level  
Legendre Coefficients

77-Ir-192



77-Ir-192

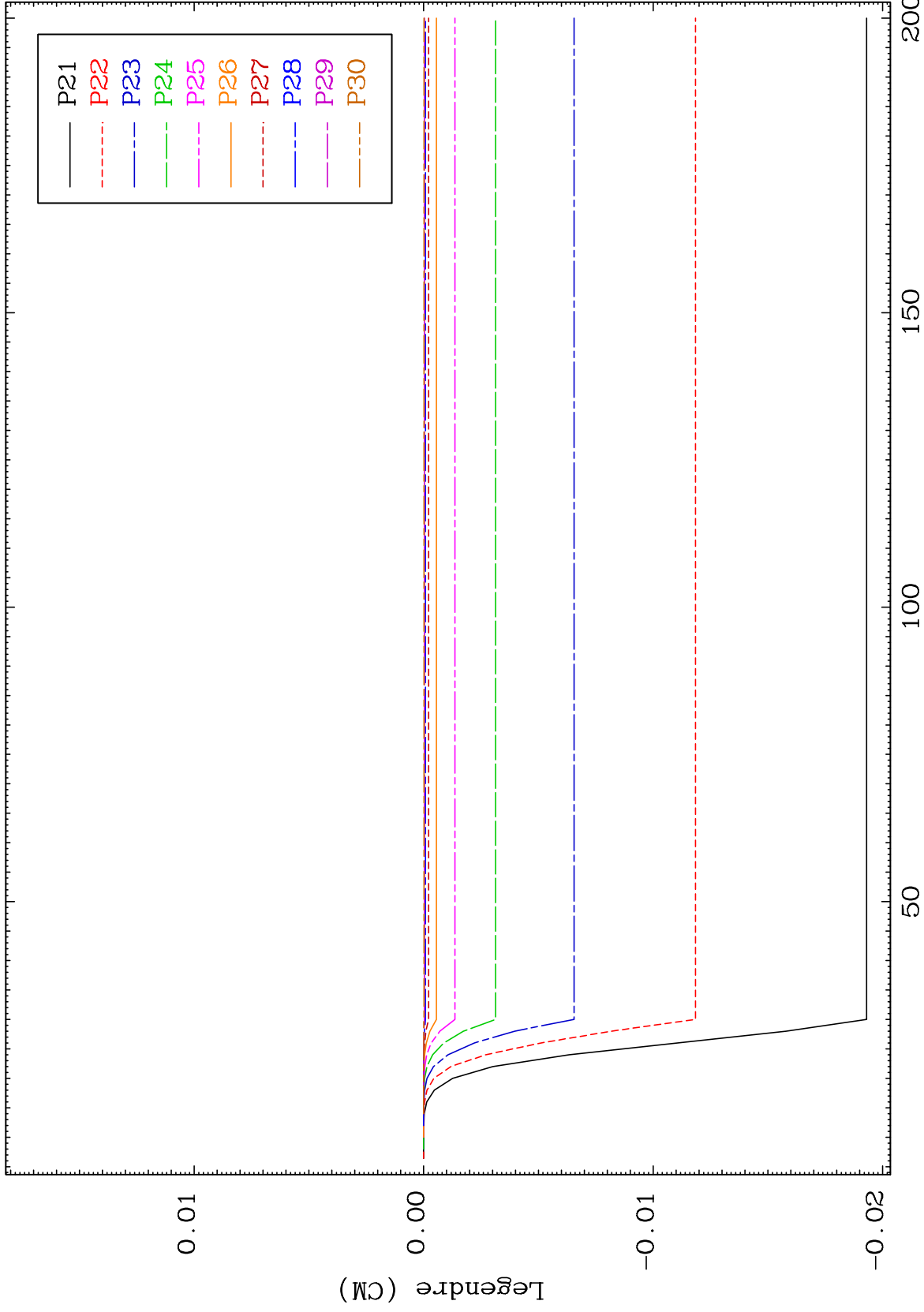
Incident Energy (MeV)

107

MAT 7728

MT= 76 (n,n') Level  
Legendre Coefficients

77-Ir-192



108

Incident Energy (MeV)

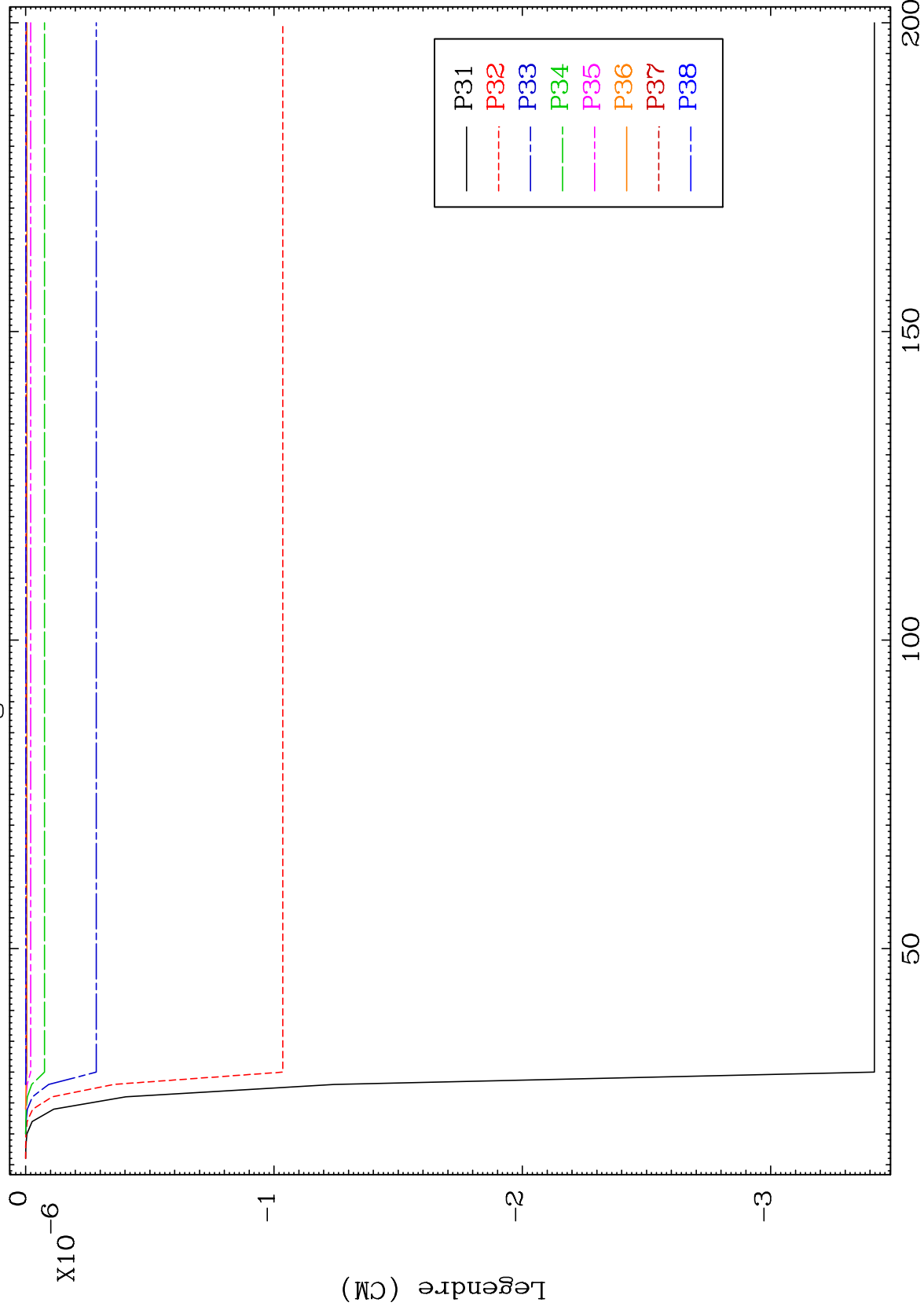
77-Ir-192

MAT 7728

MT= 76 (n,n') Level

77-Ir-192

Legendre Coefficients



109

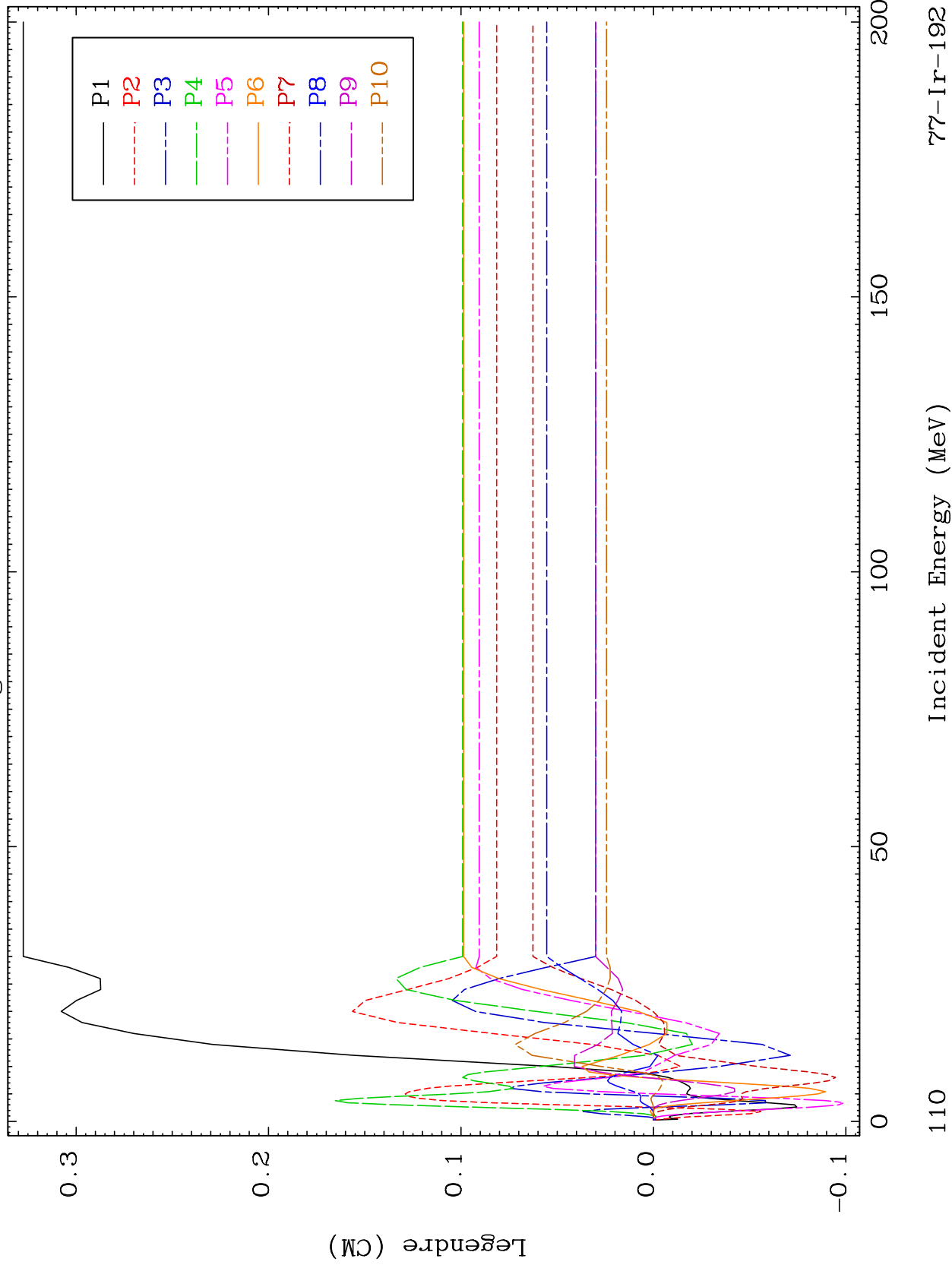
Incident Energy (MeV)

77-Ir-192

MAT 7728

MT= 77 (n,n') Level  
Legendre Coefficients

77-Ir-192

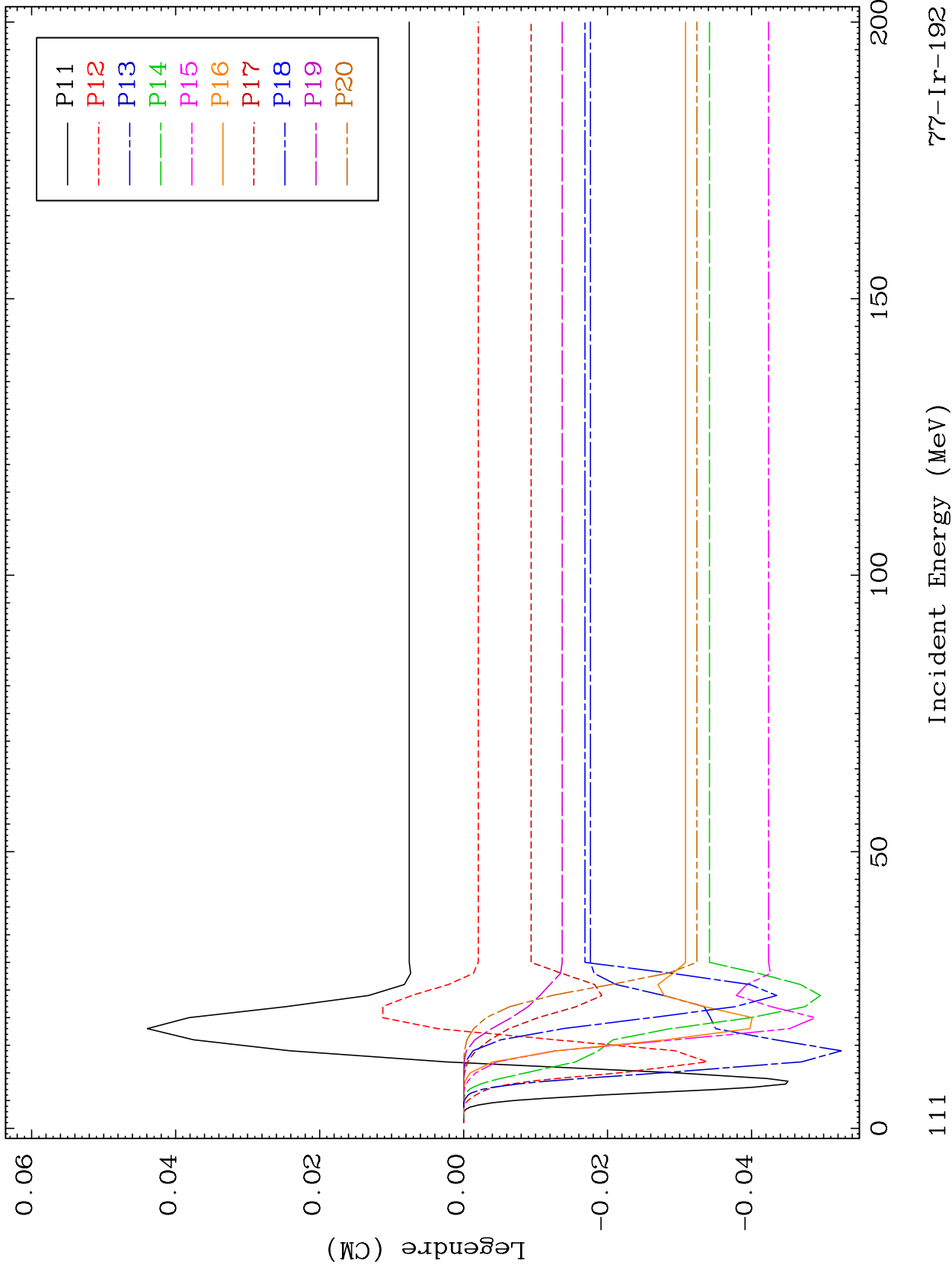


77-Ir-192

MAT 7728

MT= 77 (n,n') Level  
Legendre Coefficients

77-Ir-192



111

Incident Energy (MeV)

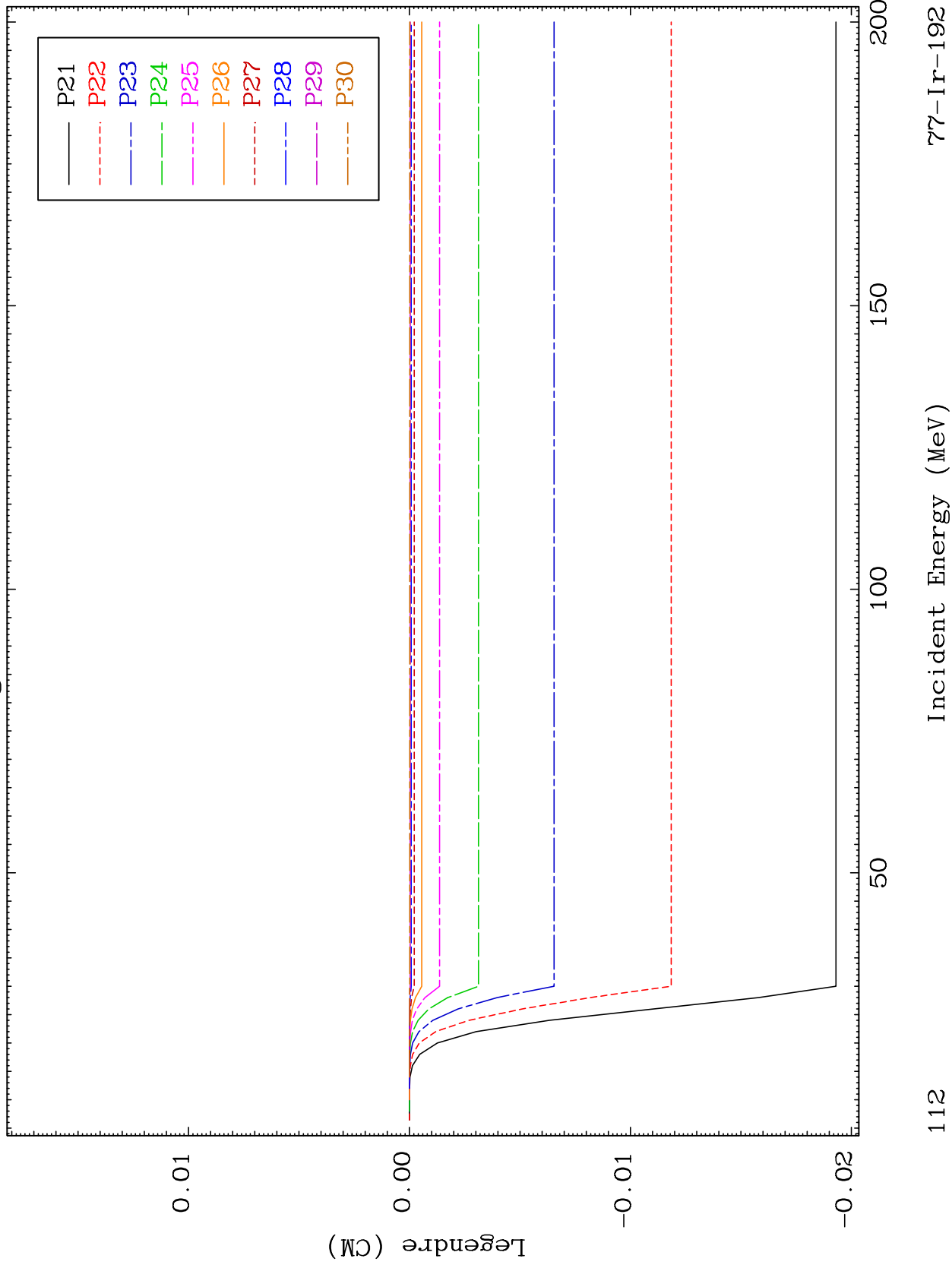
77-Ir-192



MAT 7728

MT= 77 (n,n') Level  
Legendre Coefficients

77-Ir-192



112

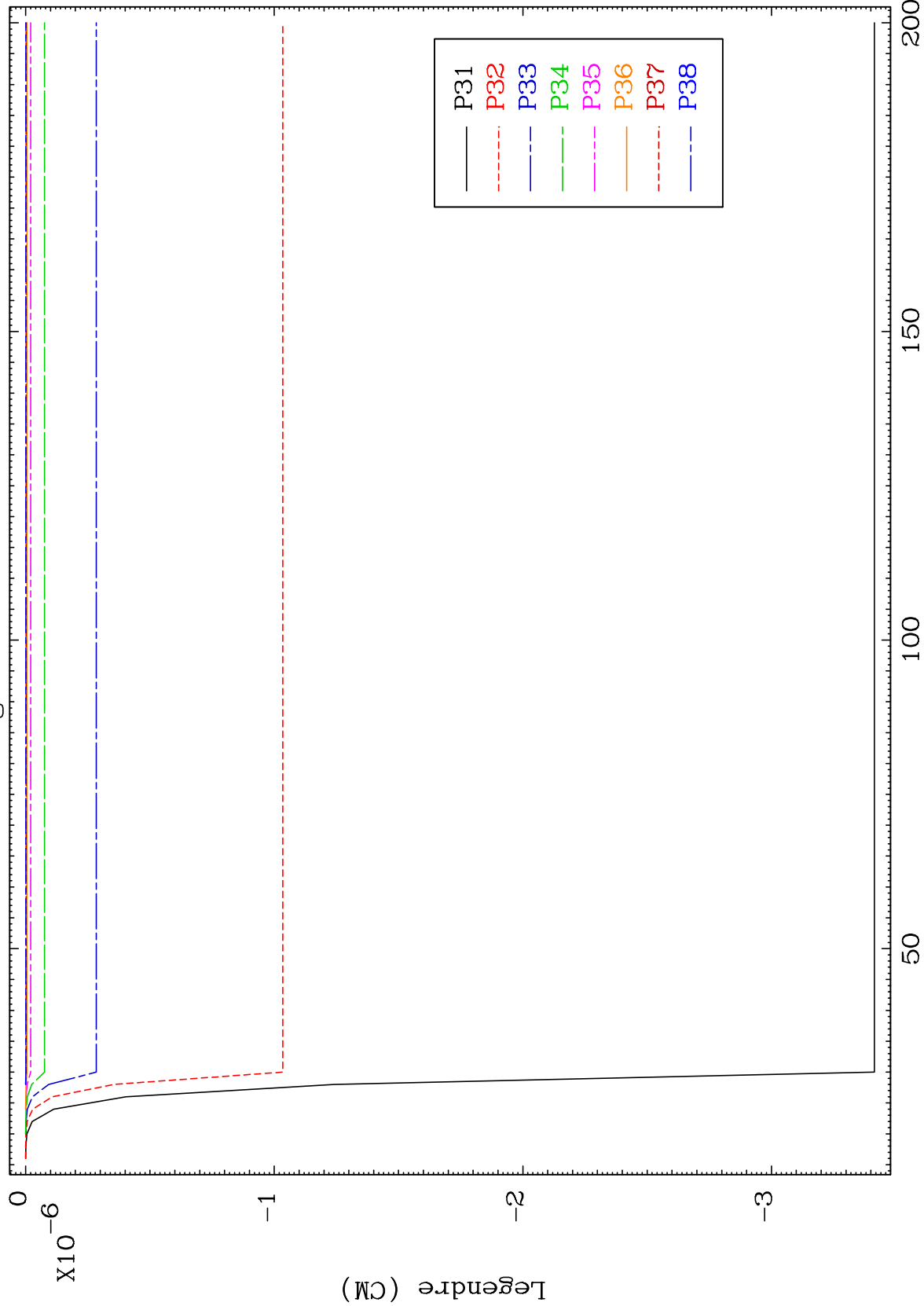
Incident Energy (MeV)

77-Ir-192

MAT 7728

MT= 77 (n,n') Level  
Legendre Coefficients

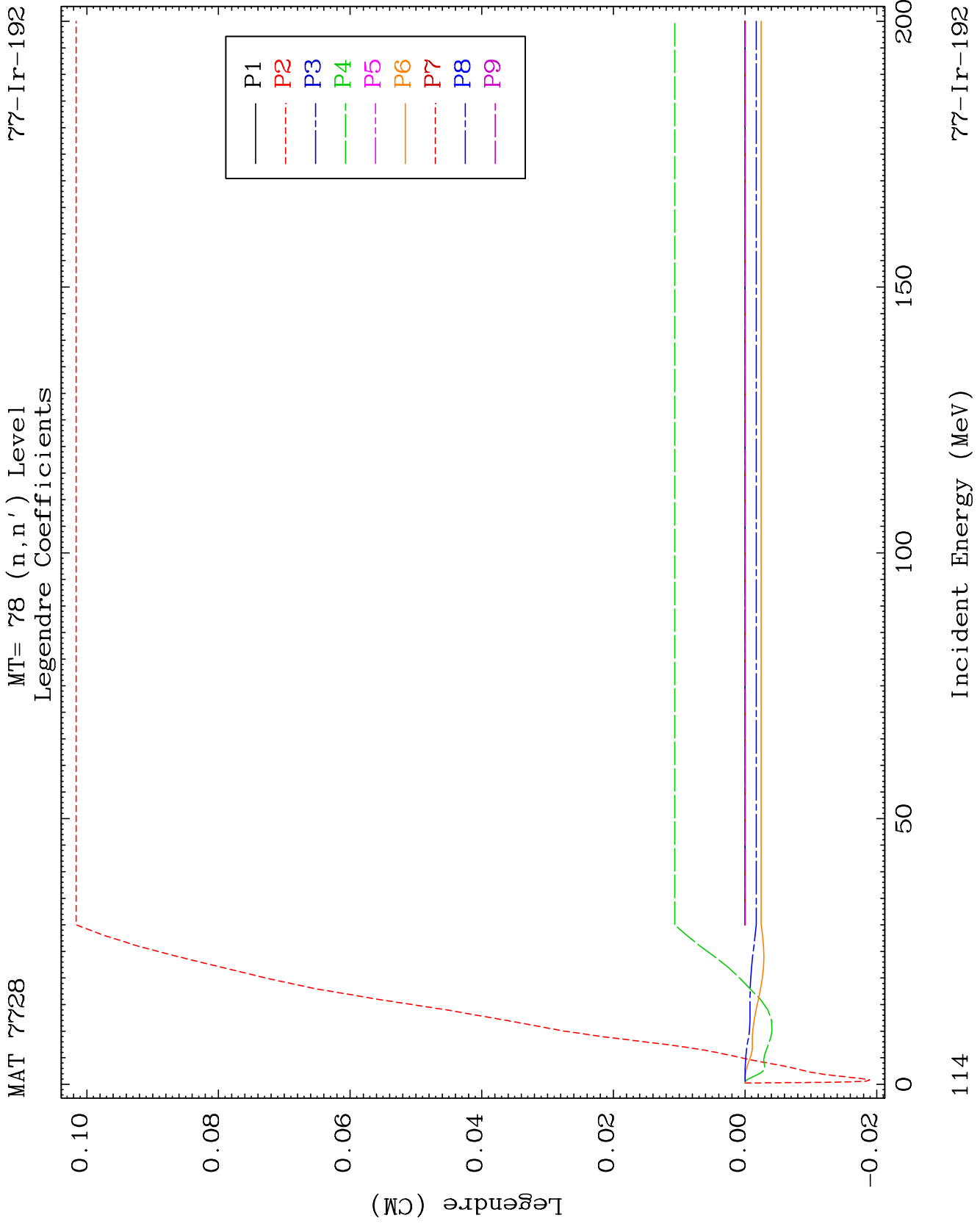
77-Ir-192



113

Incident Energy (MeV)

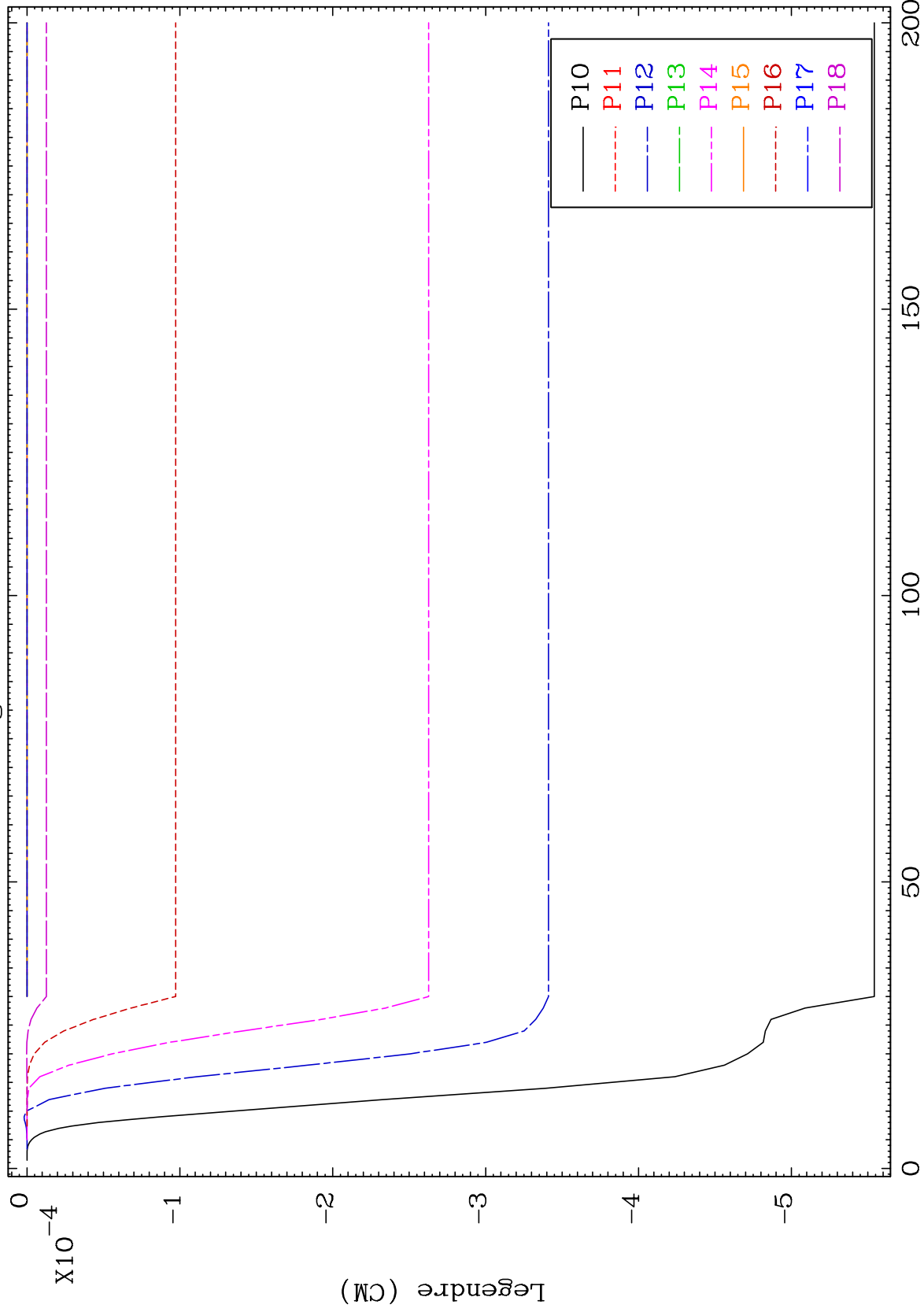
77-Ir-192



MAT 7728

MT= 78 (n,n') Level  
Legendre Coefficients

77-Ir-192



115

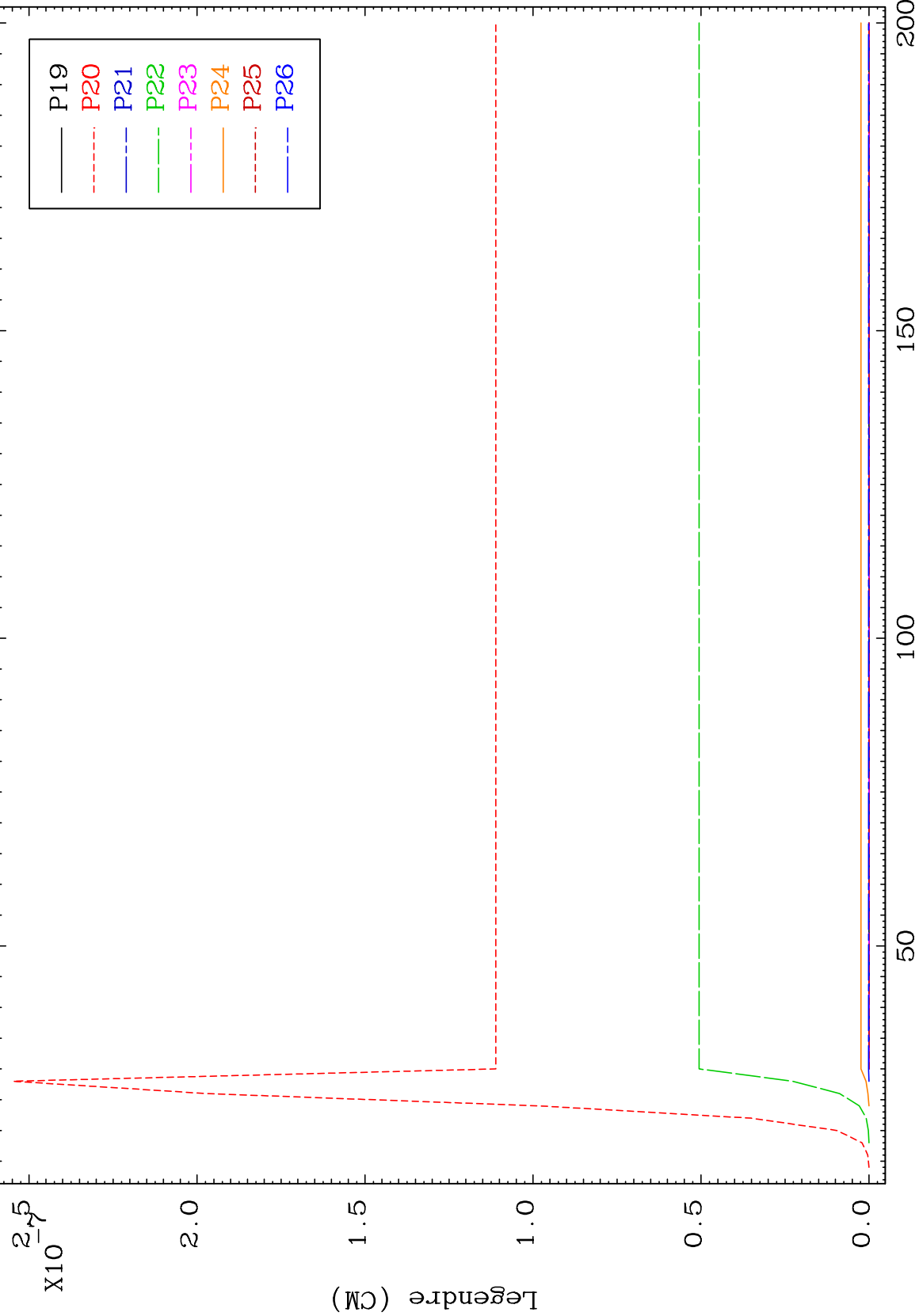
Incident Energy (MeV)

77-Ir-192

MAT 7728

MT= 78 (n,n') Level  
Legendre Coefficients

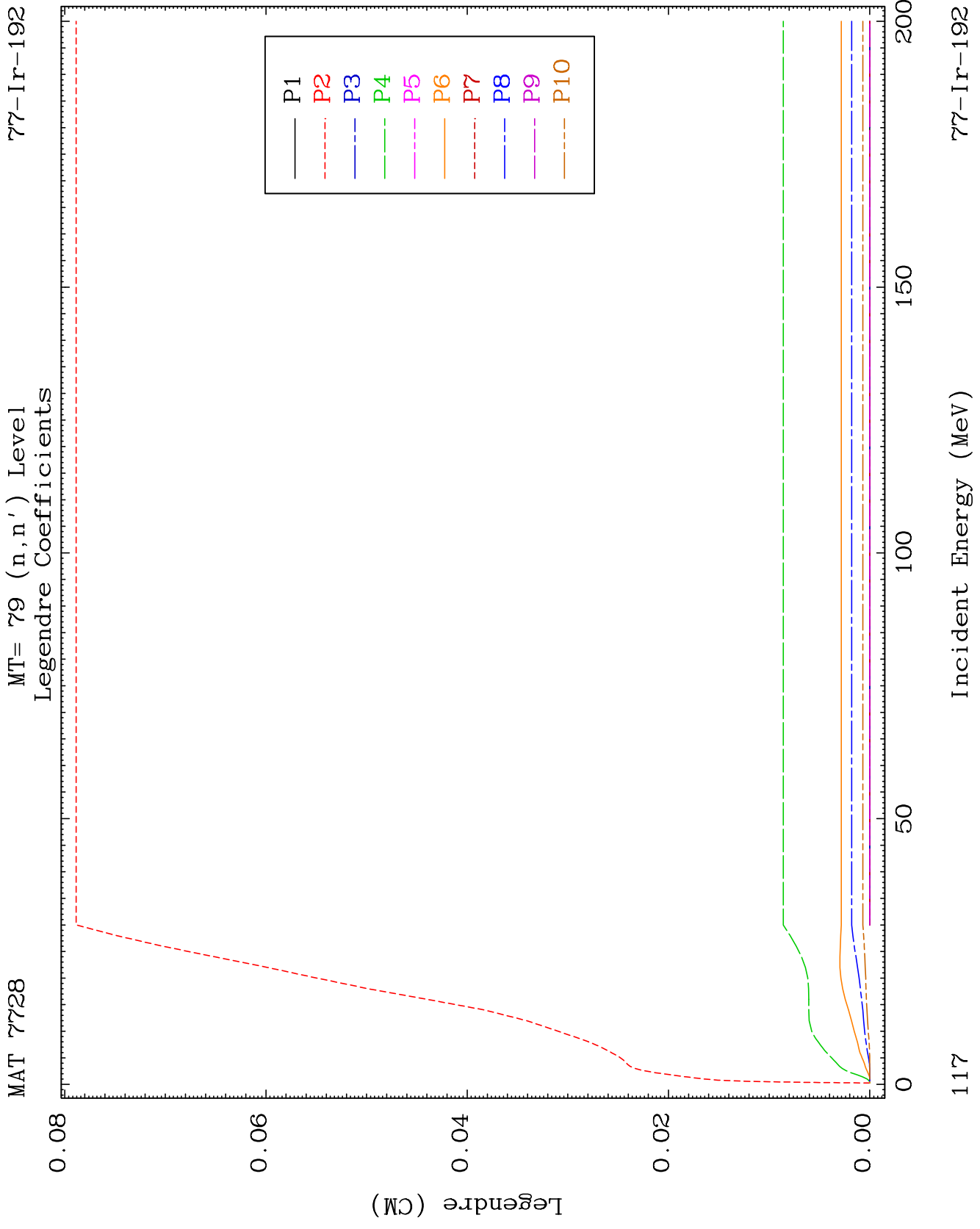
77-Ir-192



116

Incident Energy (MeV)

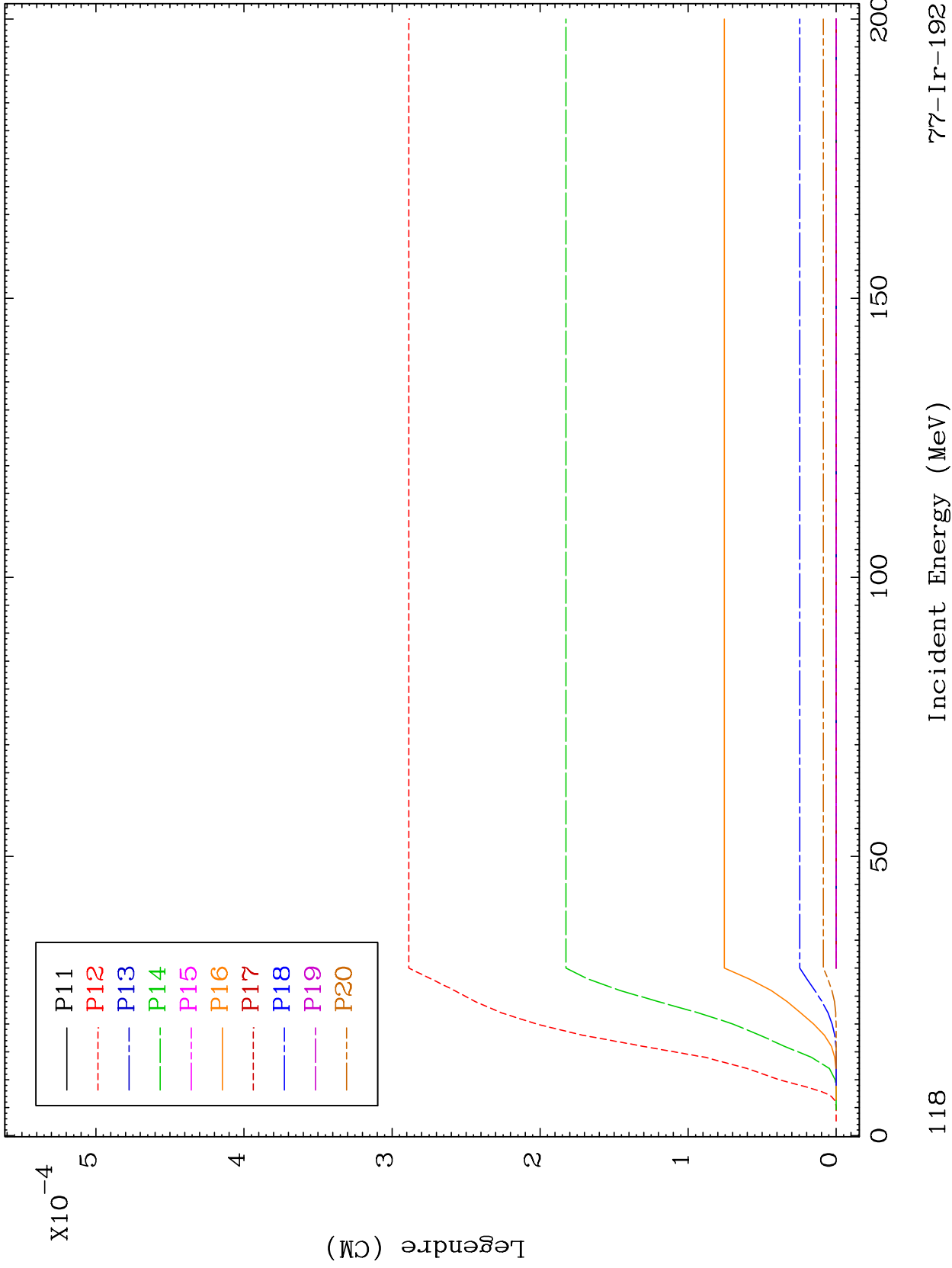
77-Ir-192



MAT 7728

MT= 79 (n,n') Level  
Legendre Coefficients

77-Ir-192



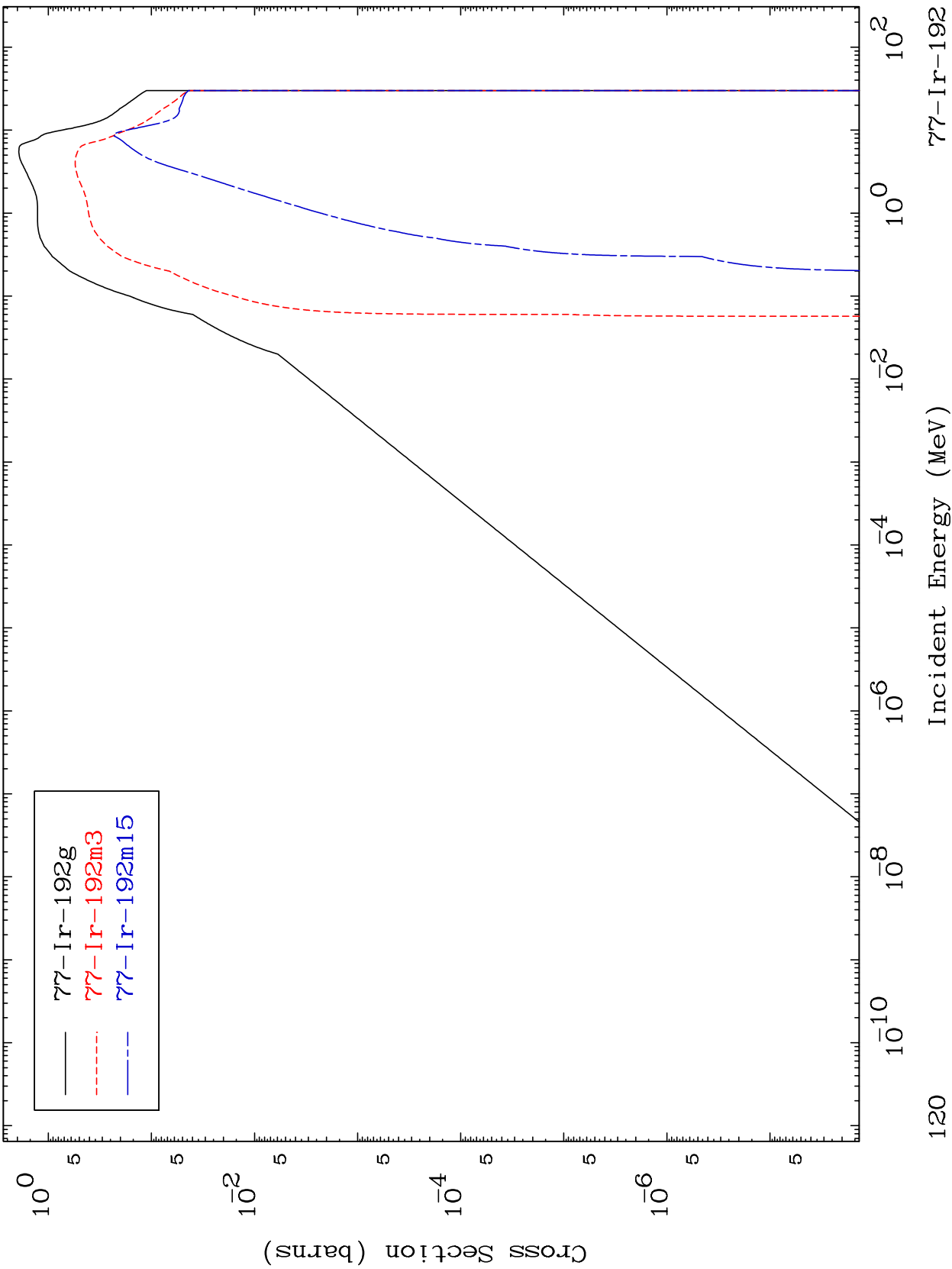




MAT 7728

Inelastic  
Radionuclide Production Cross Section

<sup>77</sup>Ir-192



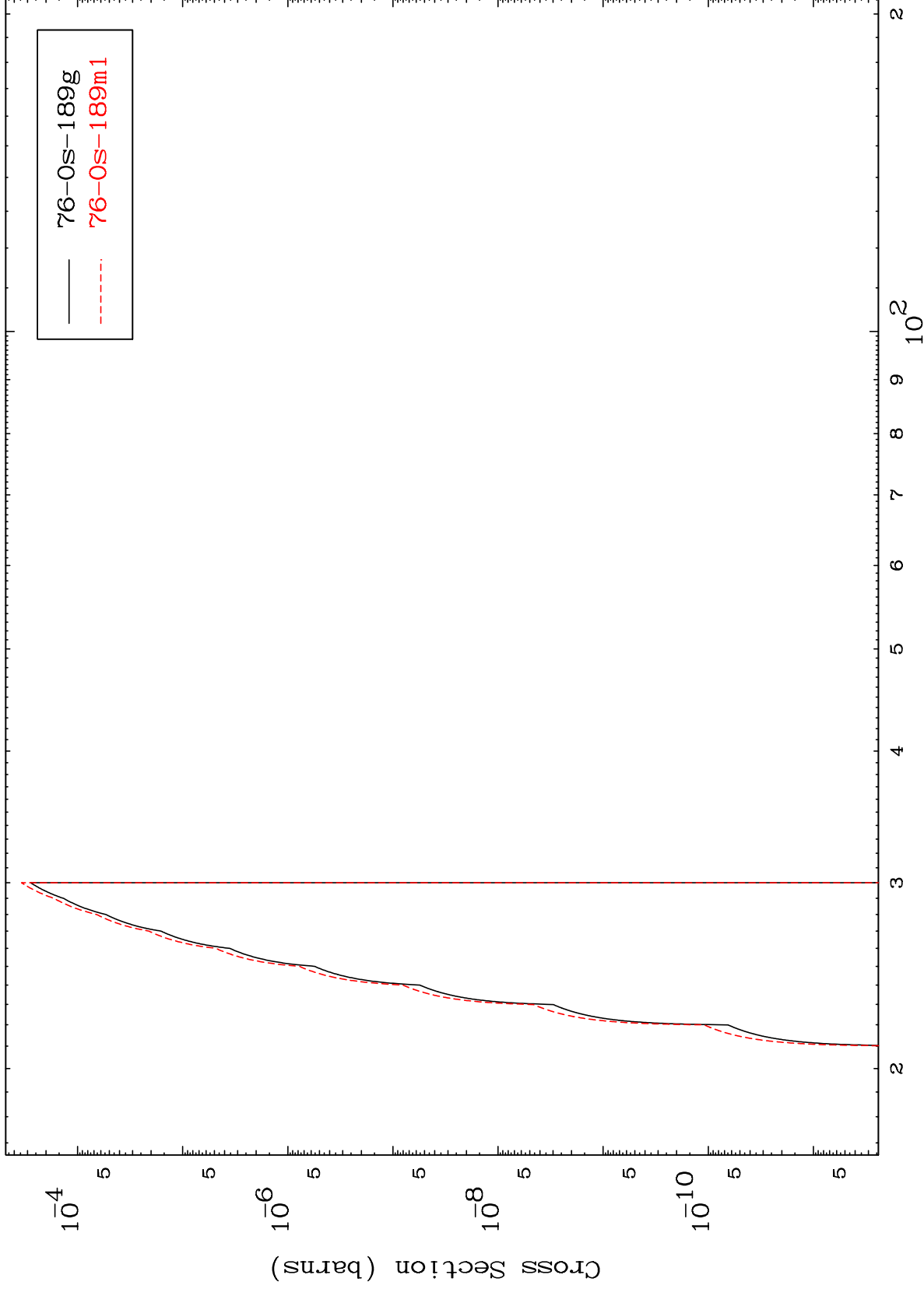
- <sup>77</sup>Ir-192g
- - - <sup>77</sup>Ir-192m3
- · - <sup>77</sup>Ir-192m15

MAT 7728

(n,2n) d

77-Ir-192

Radionuclide Production Cross Section



121

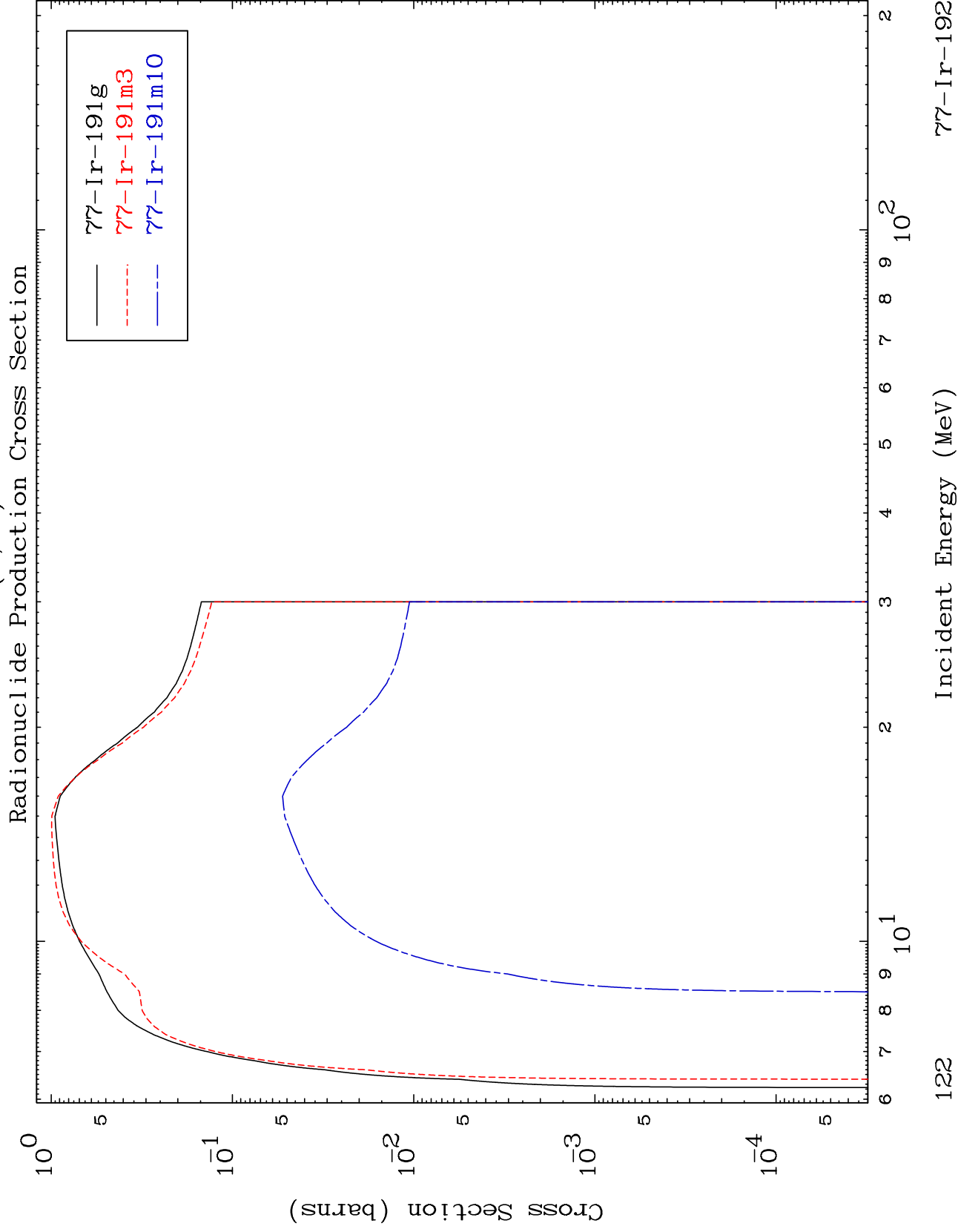
Incident Energy (MeV)

77-Ir-192

MAT 7728

(n,2n)

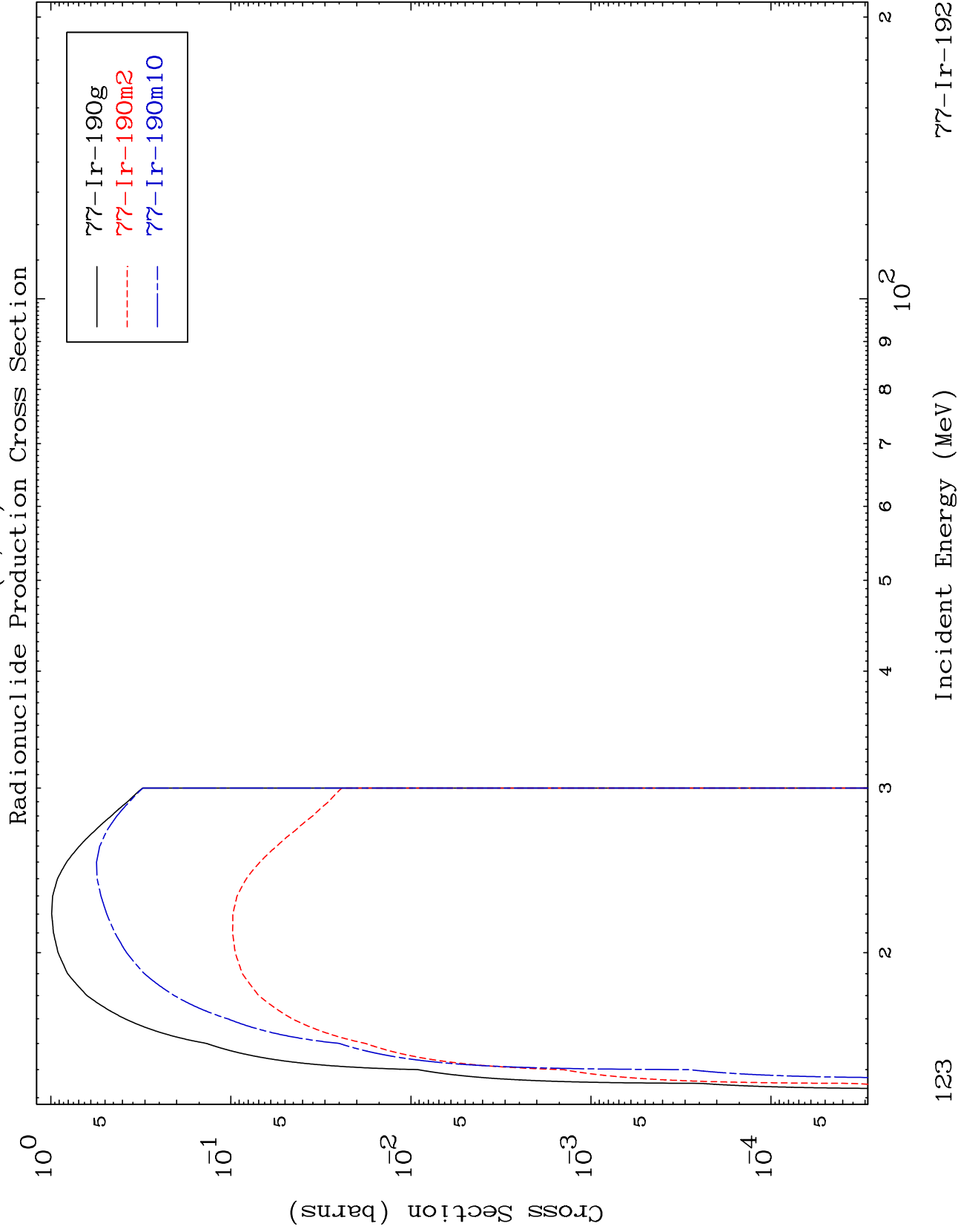
77-Ir-192



77-Ir-192

Incident Energy (MeV)

122

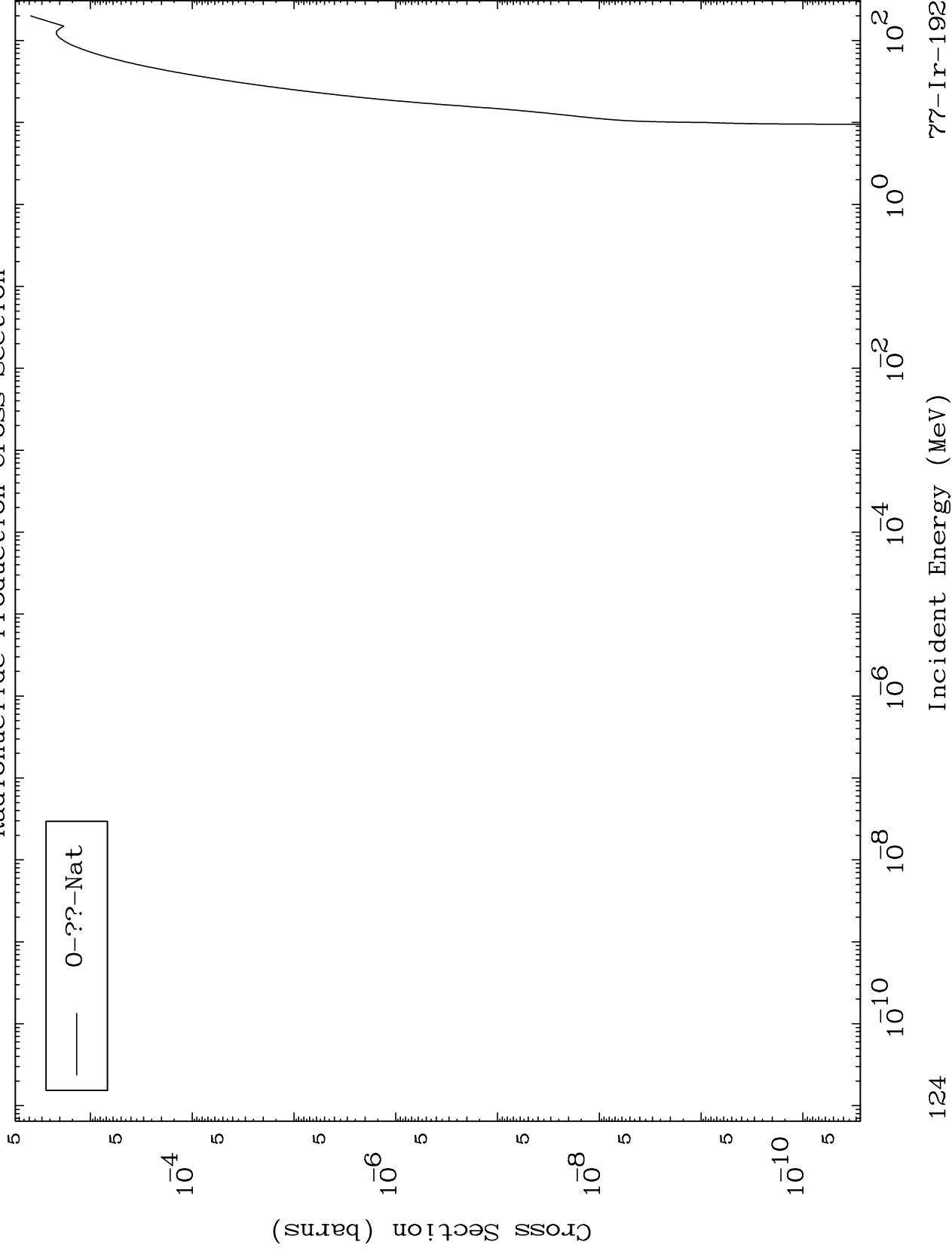


MAT 7728

Fission

<sup>77</sup>Ir-192

Radionuclide Production Cross Section

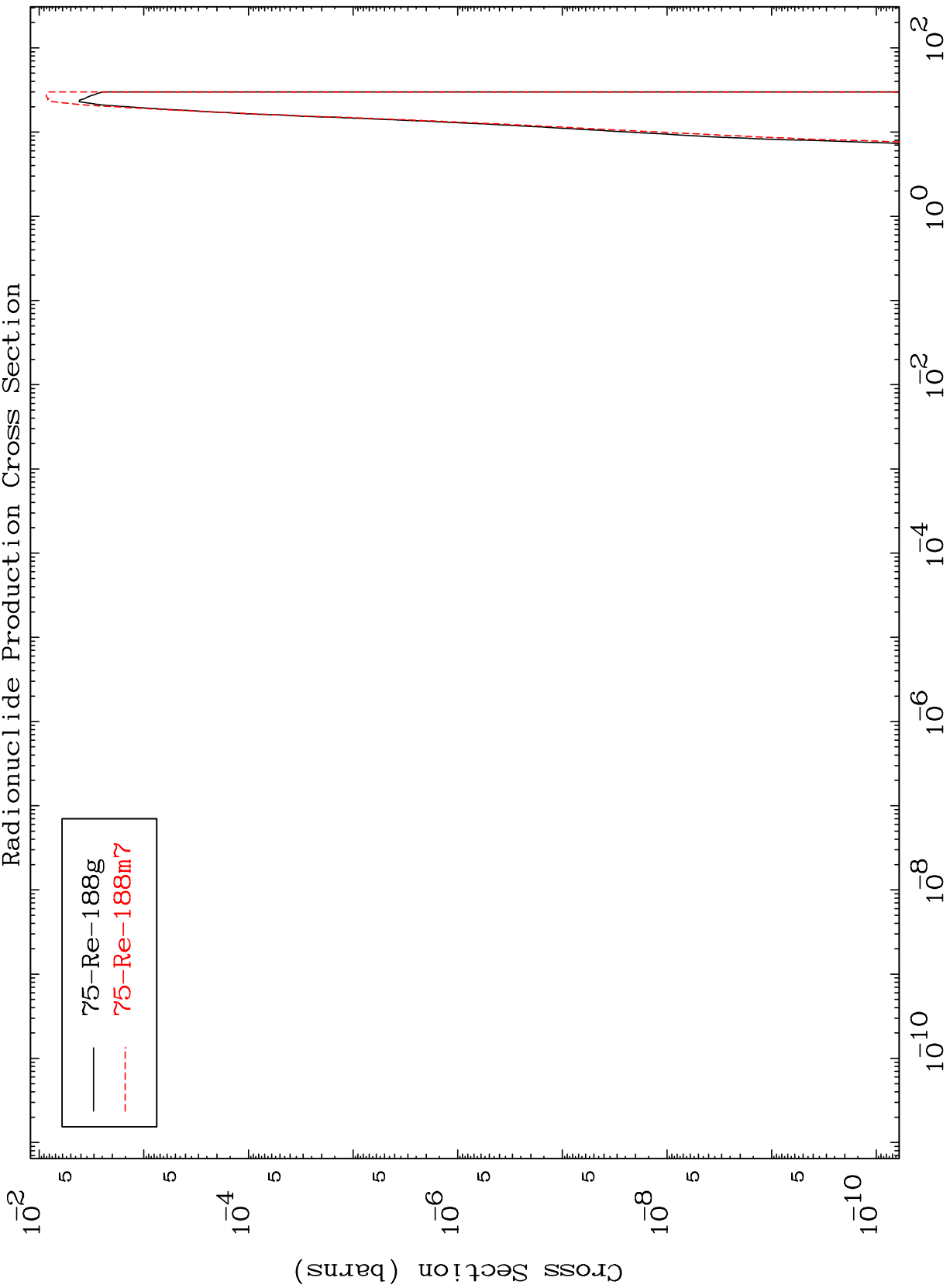


MAT 7728

$(n, n') \alpha$

$^{77}\text{Ir-192}$

Radionuclide Production Cross Section

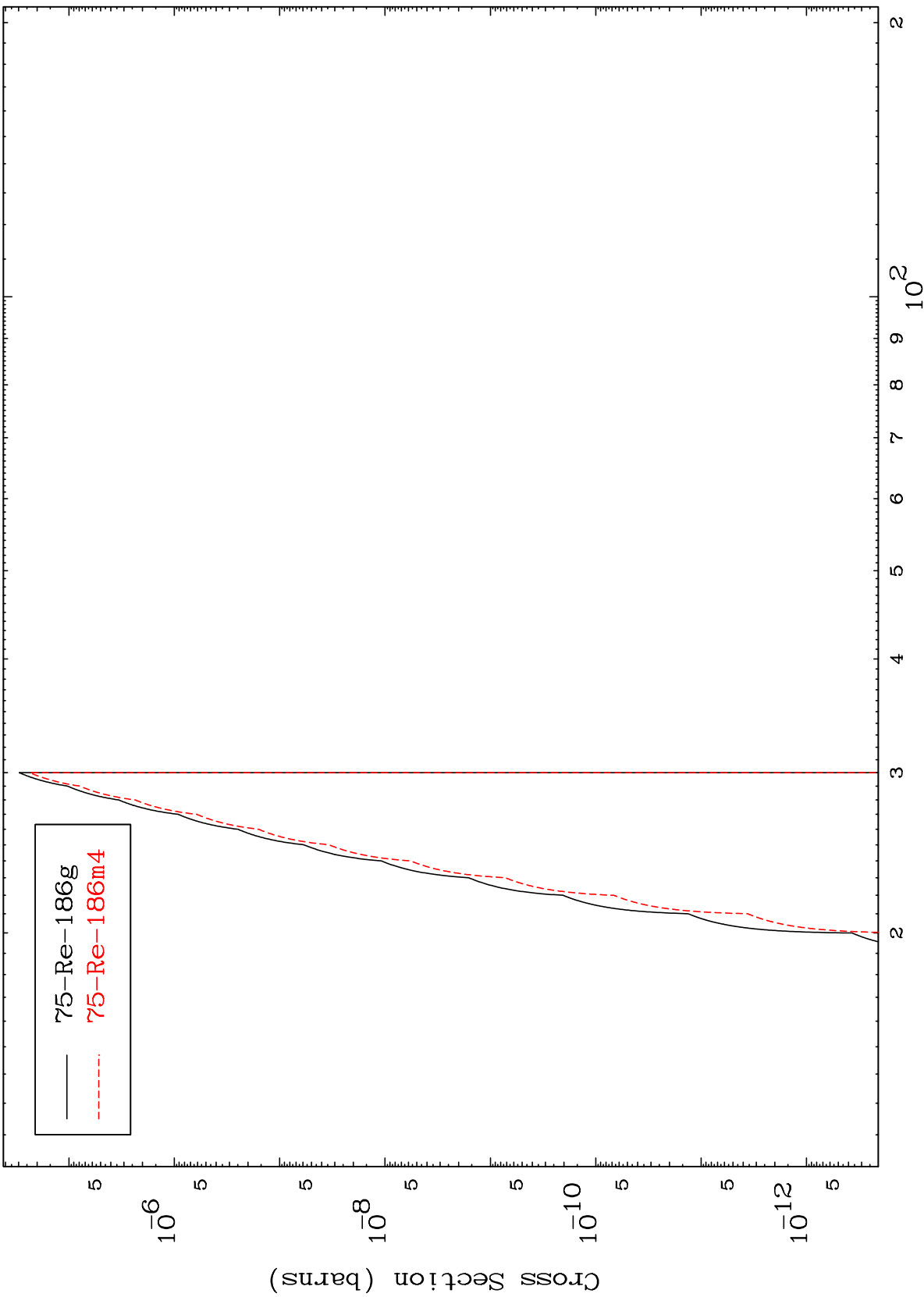


125

Incident Energy (MeV)

$^{77}\text{Ir-192}$

Radionuclide Production Cross Section

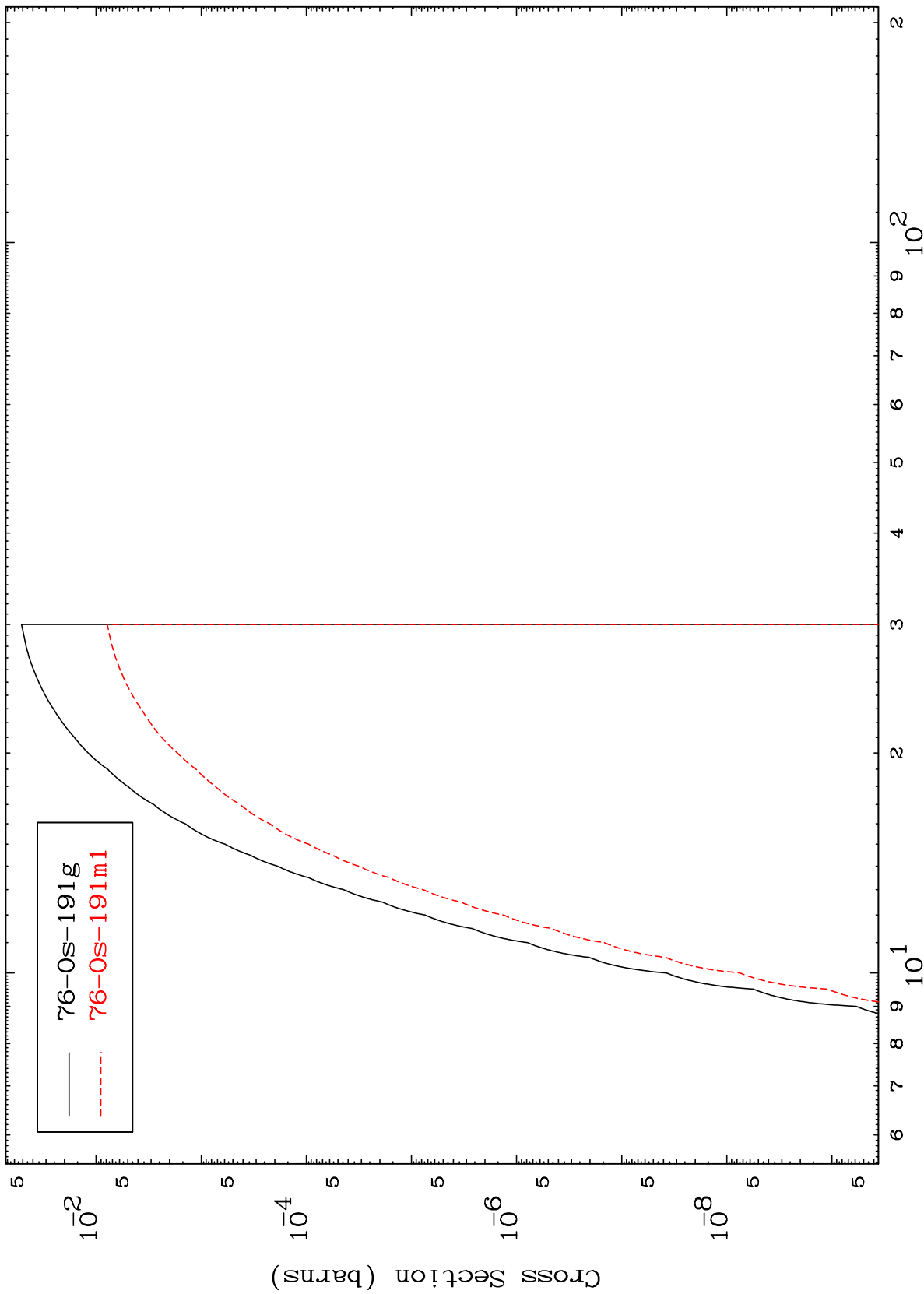


MAT 7728

$(n, n')$  p

$^{77}\text{Ir-192}$

Radionuclide Production Cross Section



127

Incident Energy (MeV)

$^{77}\text{Ir-192}$

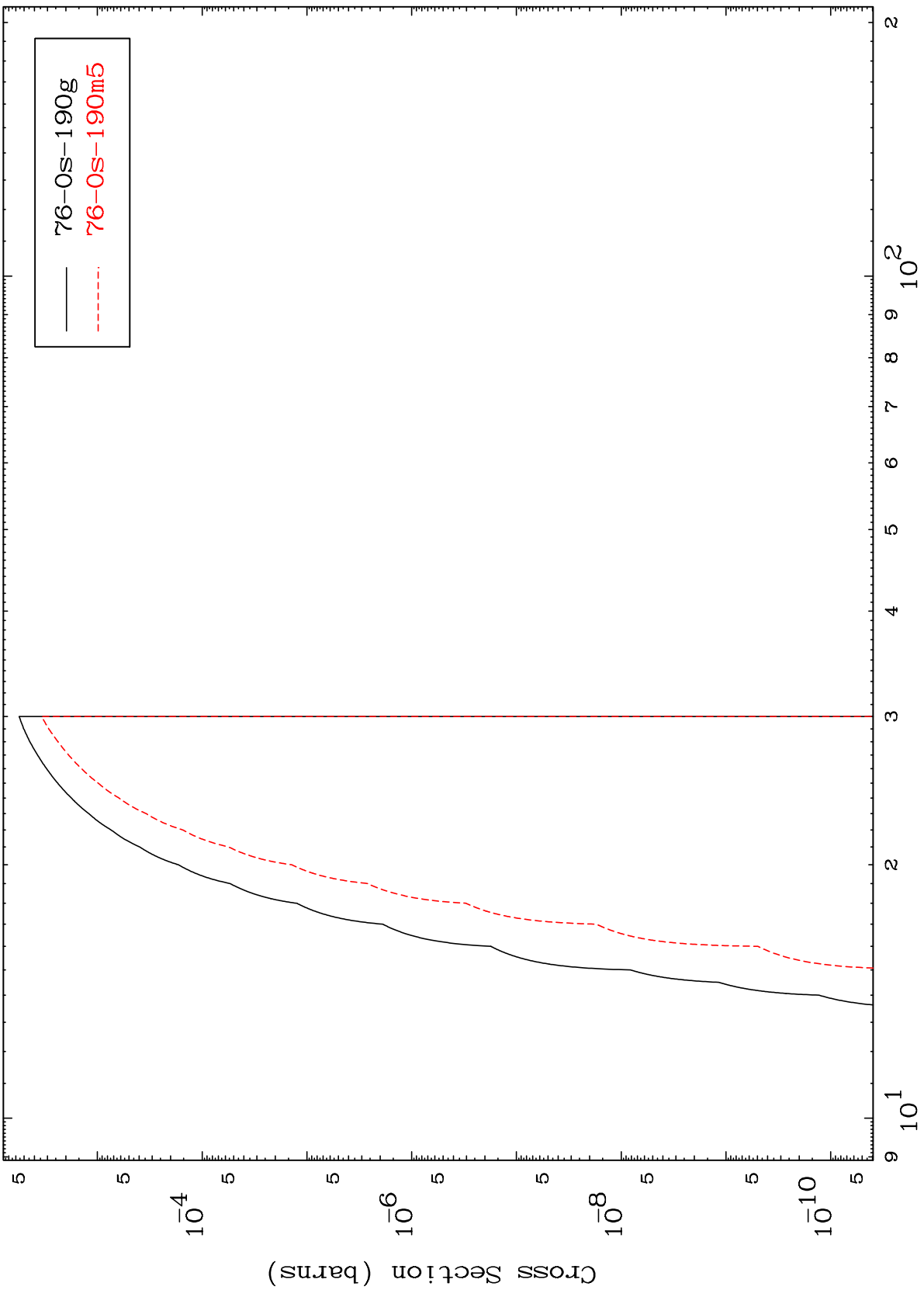


MAT 7728

(n,n') d

77-Ir-192

Radionuclide Production Cross Section

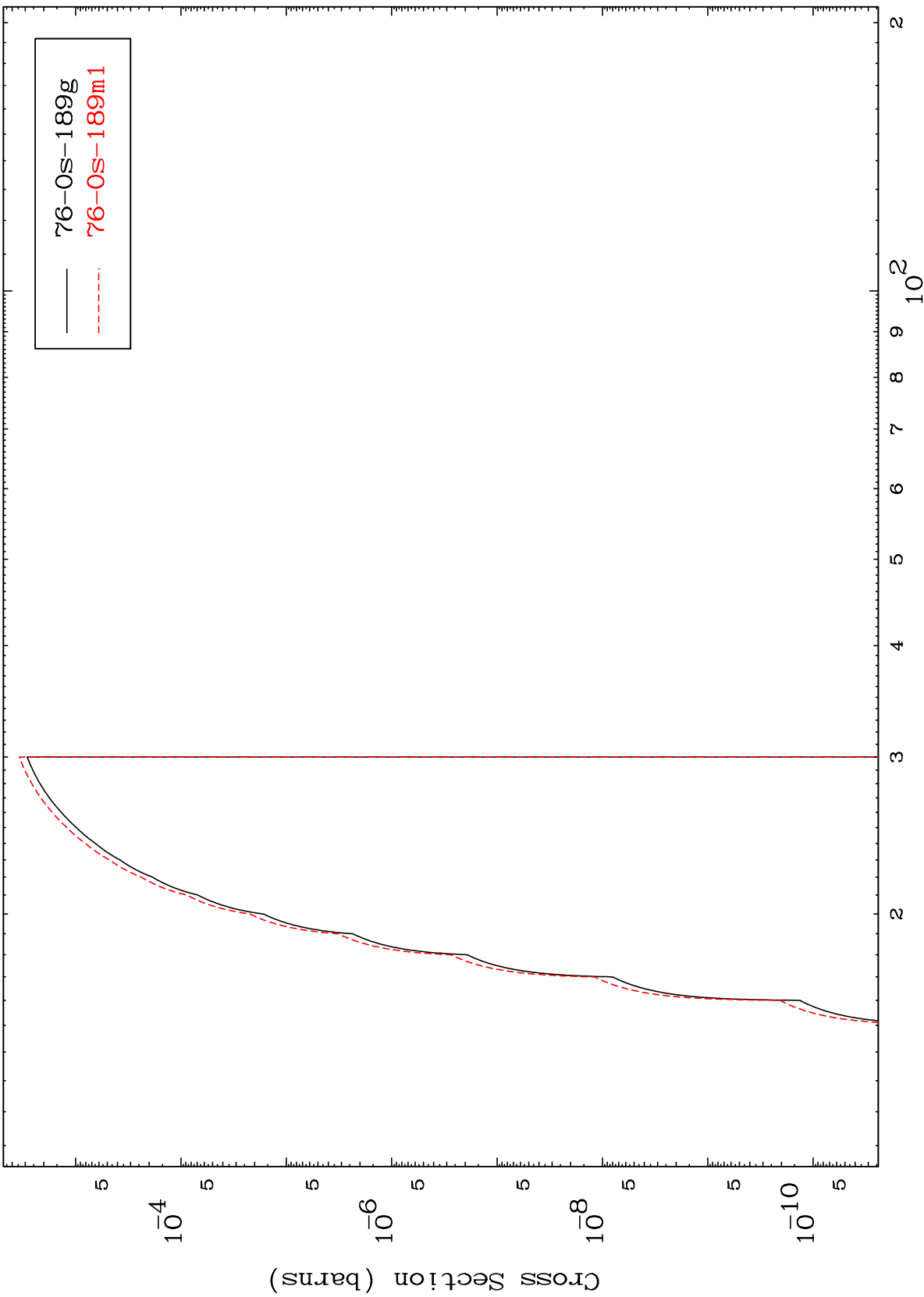


128

Incident Energy (MeV)

77-Ir-192

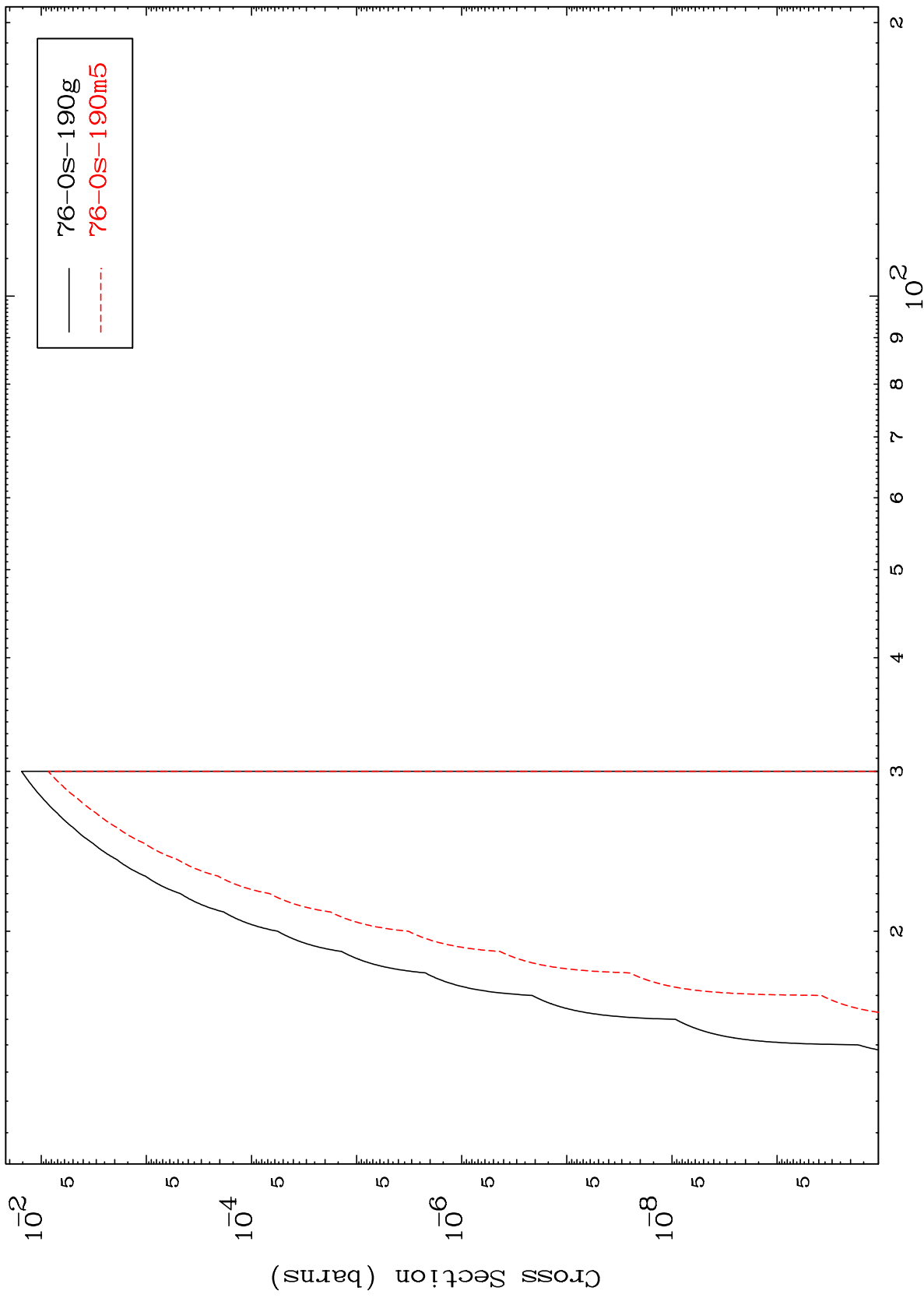
Radionuclide Production Cross Section



MAT 7728

77-Ir-192

(n,2n) p  
Radionuclide Production Cross Section



130

Incident Energy (MeV)

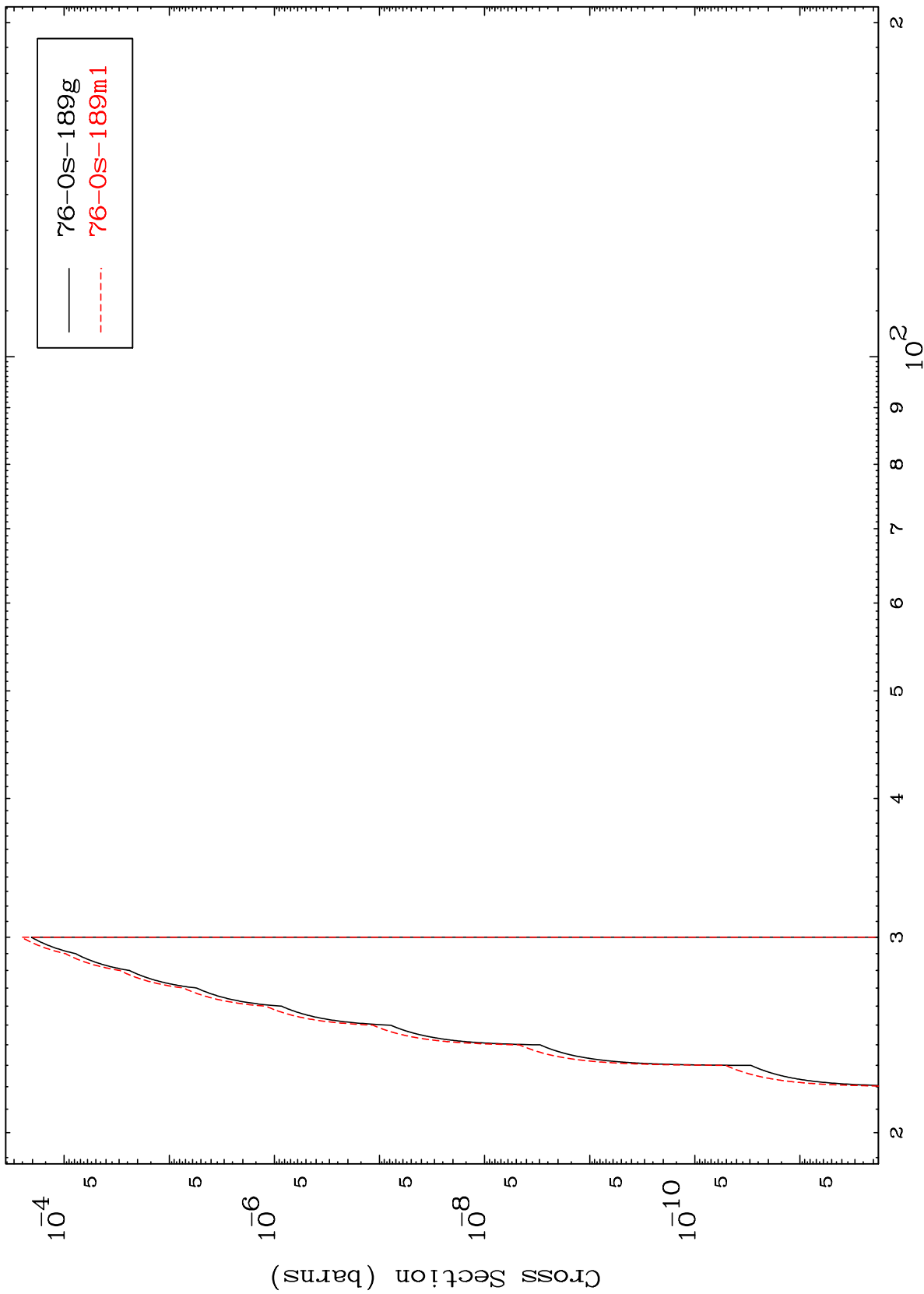
77-Ir-192

MAT 7728

(n,3n) p

77-Ir-192

Radionuclide Production Cross Section

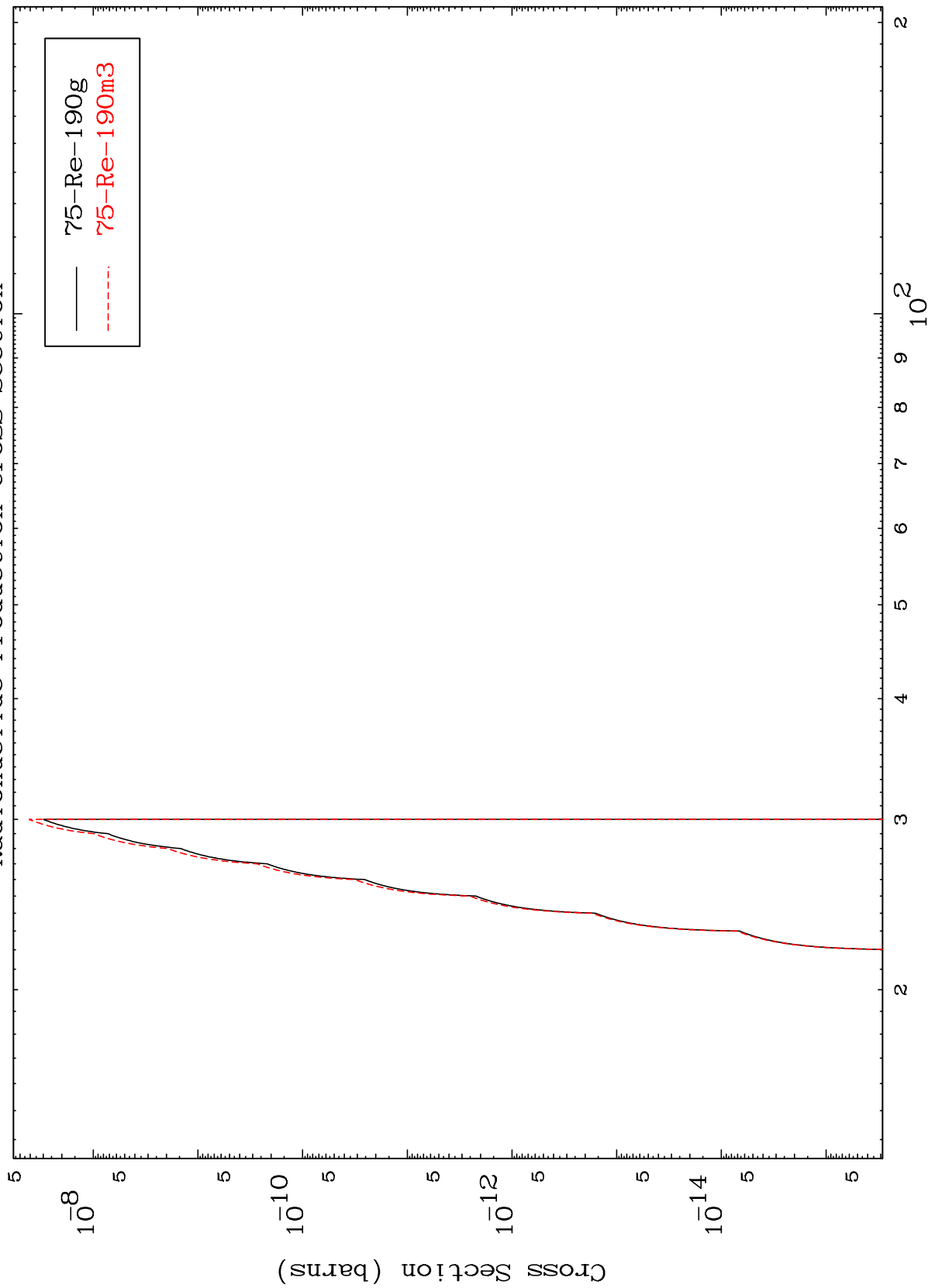


131

Incident Energy (MeV)

77-Ir-192

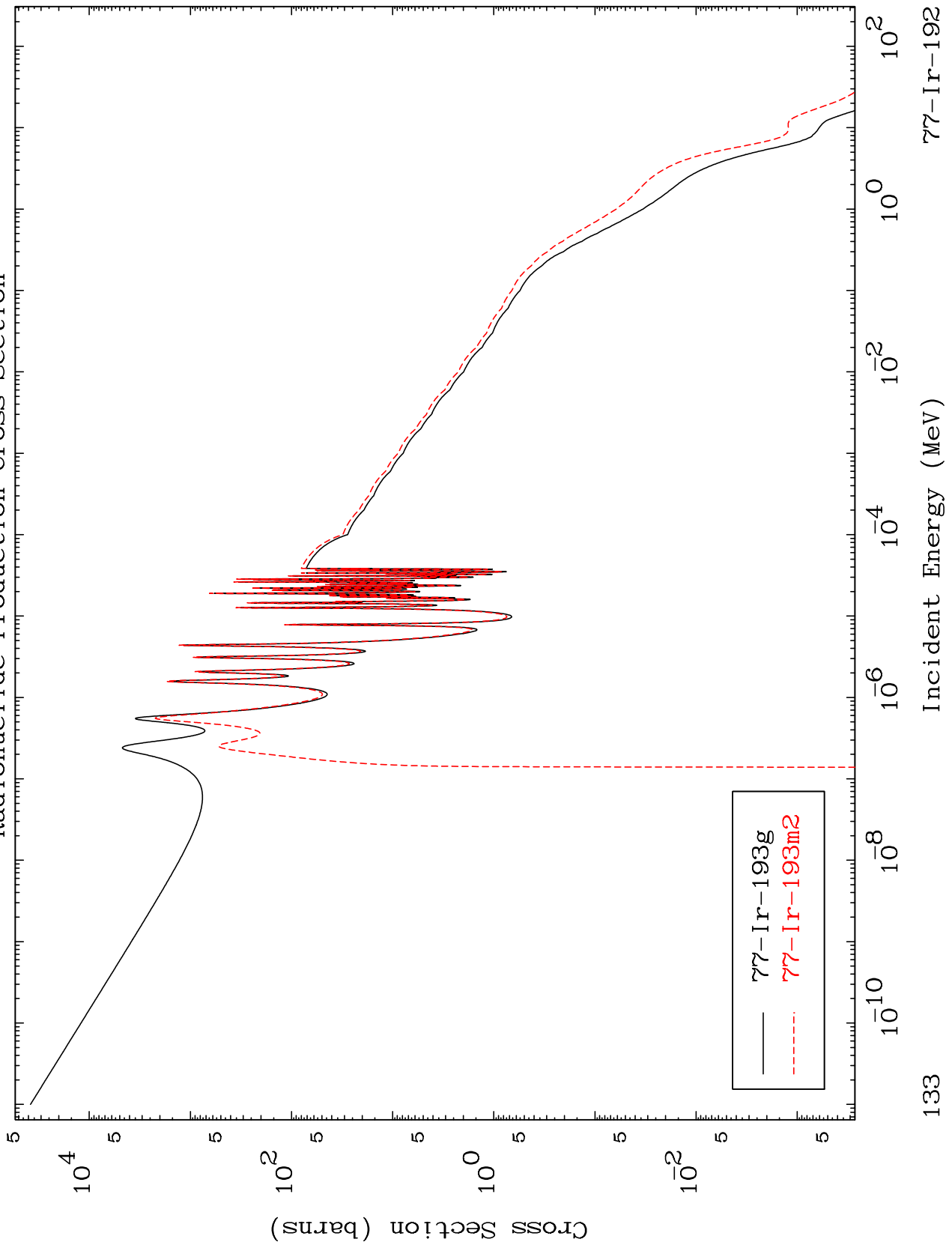
Radionuclide Production Cross Section



MAT 7728

<sup>77</sup>Ir-192

<sup>(n,γ)</sup>  
Radionuclide Production Cross Section

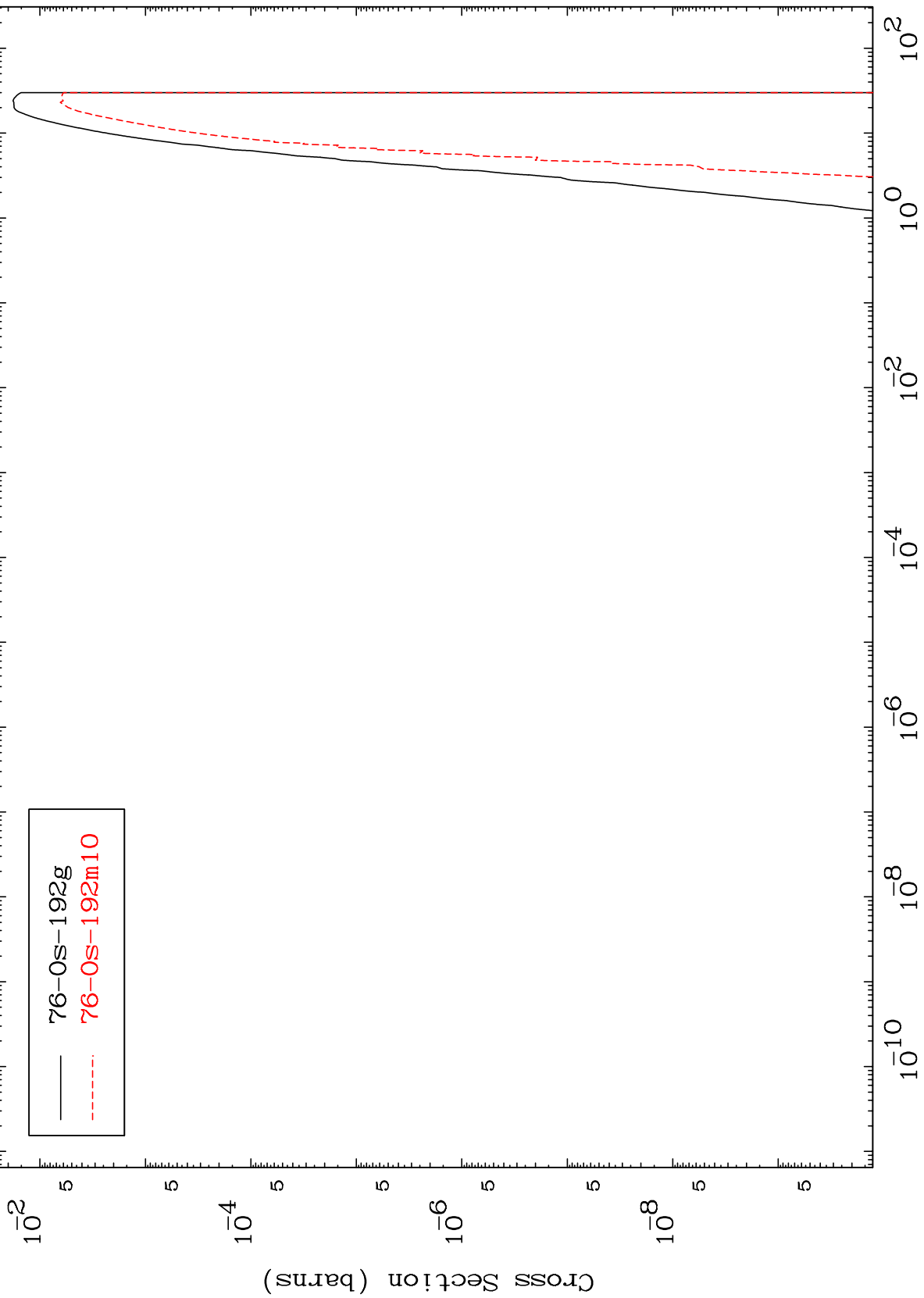


MAT 7728

(n,p)

<sup>77</sup>Ir-192

Radionuclide Production Cross Section



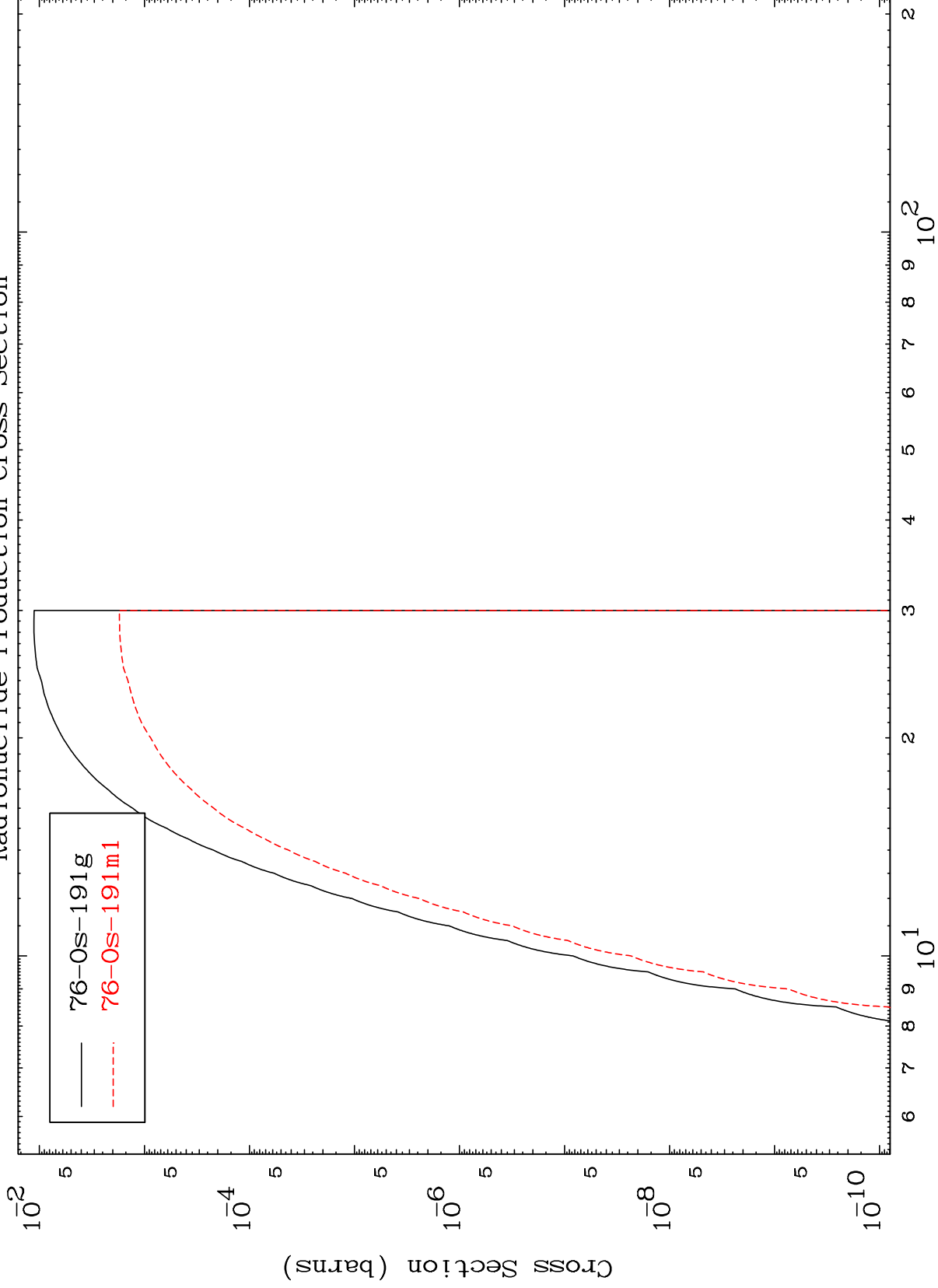
76-0s-192g  
76-0s-192m10

MAT 7728

(n,d)

<sup>77</sup>Ir-192

Radionuclide Production Cross Section



135

Incident Energy (MeV)

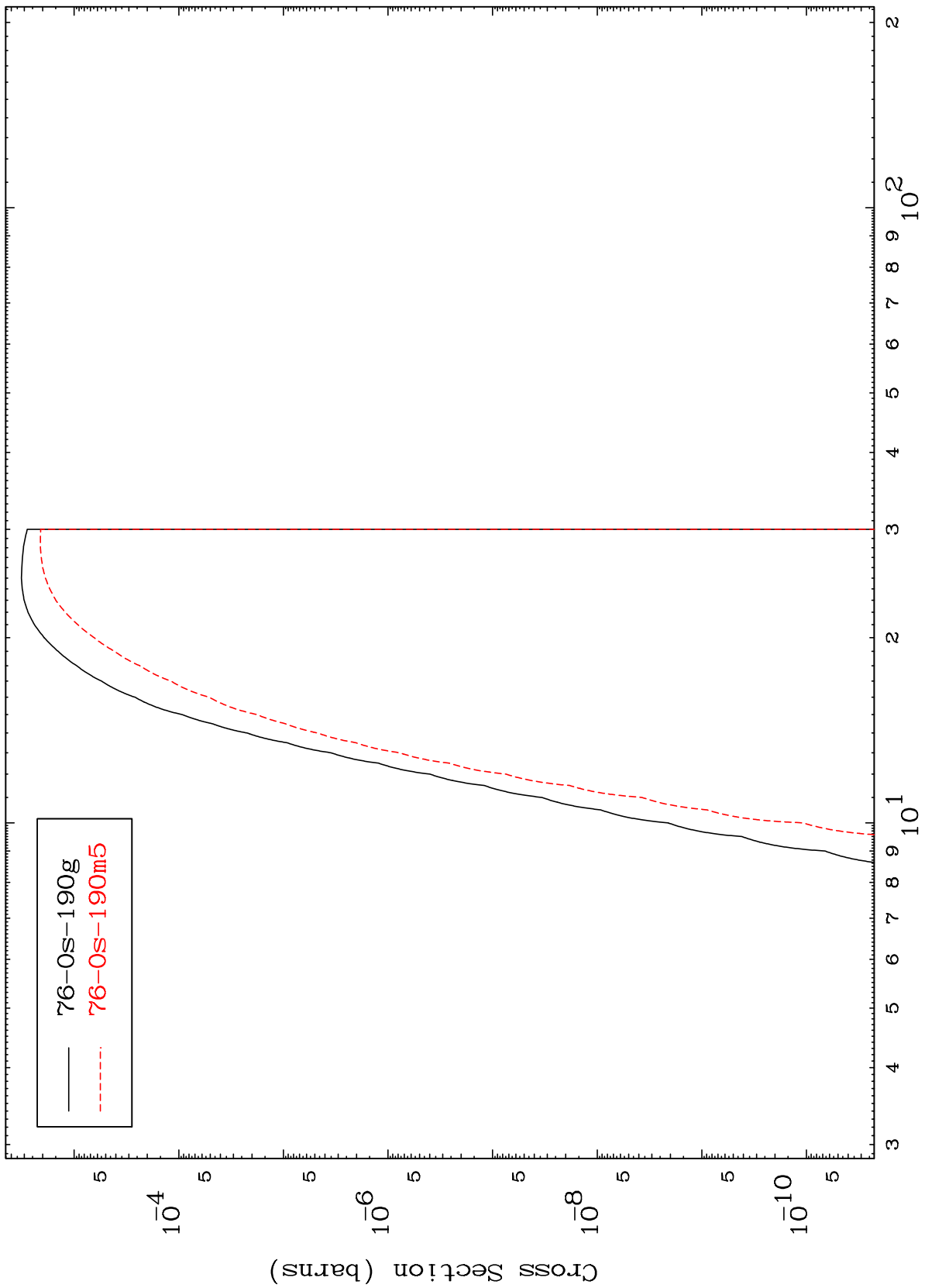
<sup>77</sup>Ir-192



MAT 7728

77-Ir-192

(n, t)  
Radionuclide Production Cross Section



76-0s-190g  
76-0s-190m5

136

Incident Energy (MeV)

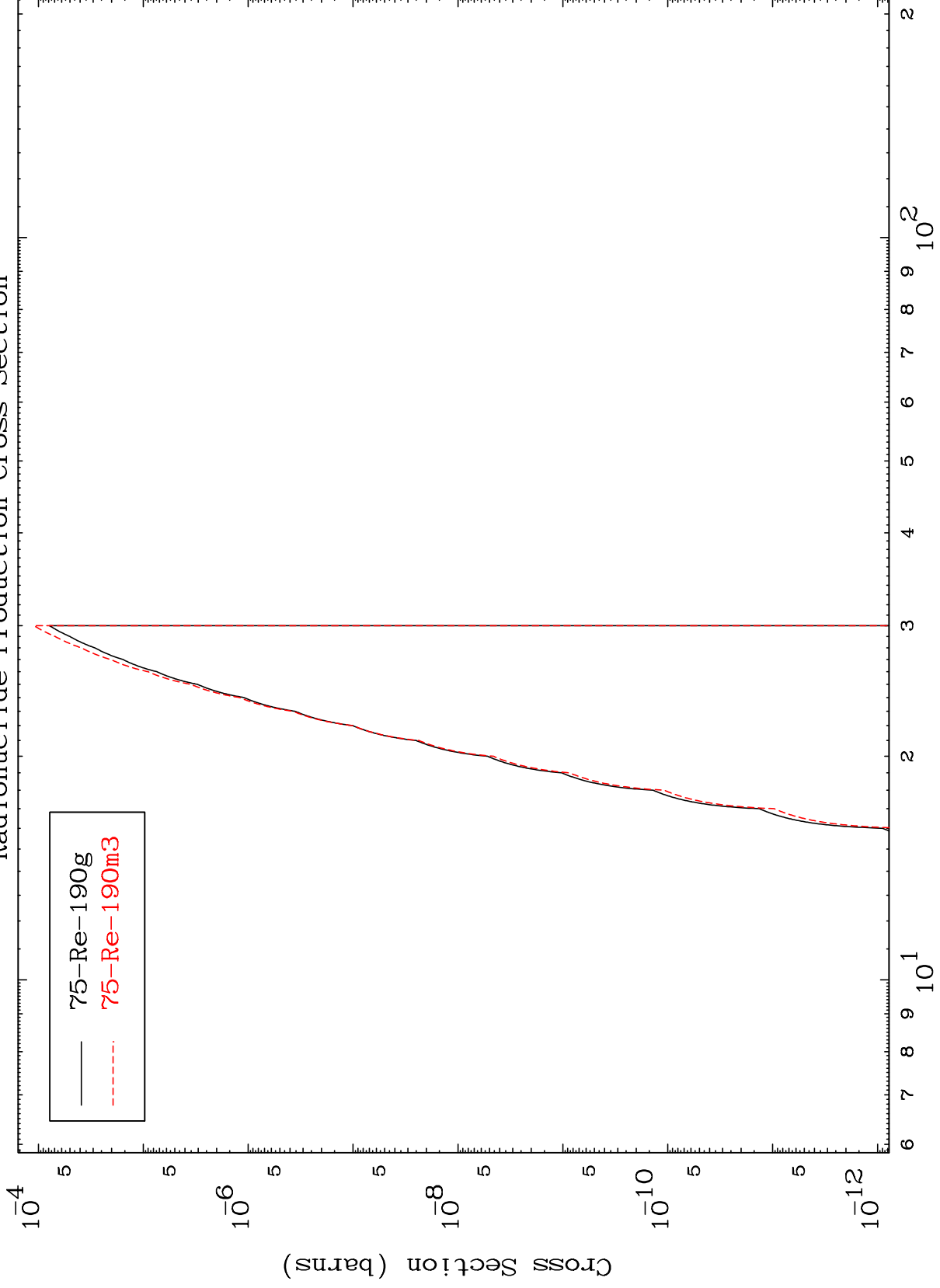
77-Ir-192

MAT 7728

(n,He-3)

77-Ir-192

Radionuclide Production Cross Section



75-Re-190g  
75-Re-190m3

137

Incident Energy (MeV)

77-Ir-192