

Program EVALPLOT  
(Version 2021-1)

by

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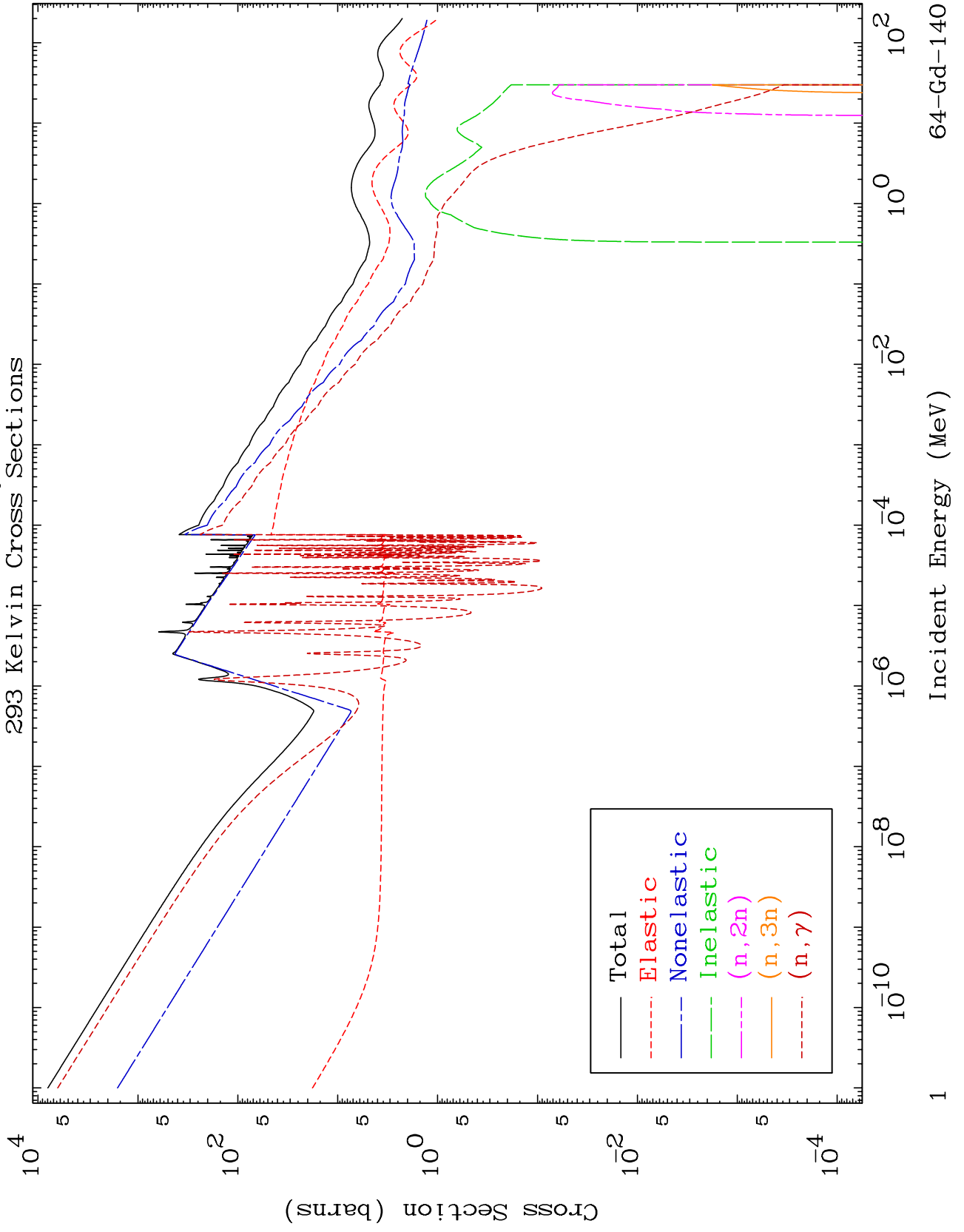
Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

Press Mouse Button to Start

MAT 6389

Neutron Major  
293 Kelvin Cross Sections

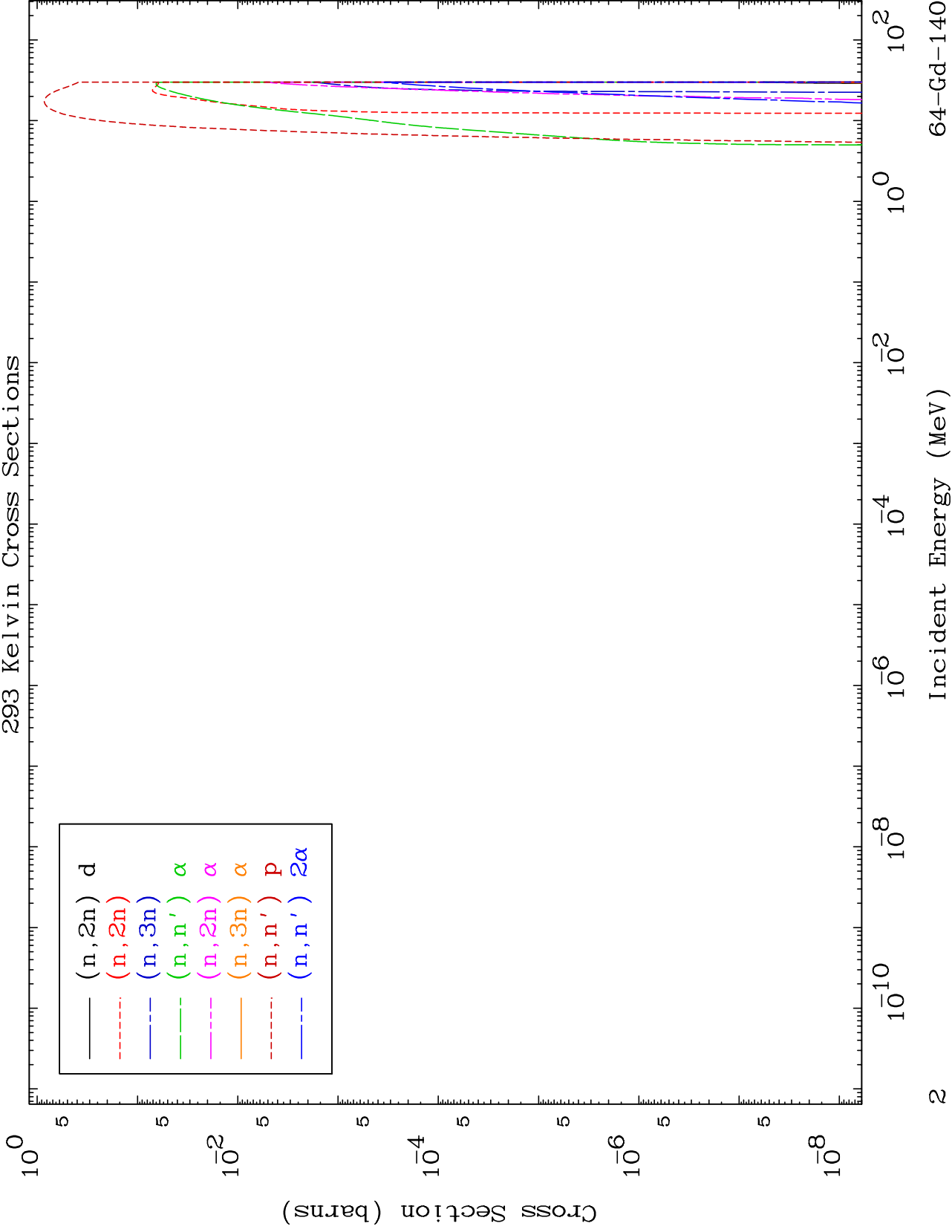
64-Gd-140



MAT 6389

Neutron Absorption  
293 Kelvin Cross Sections

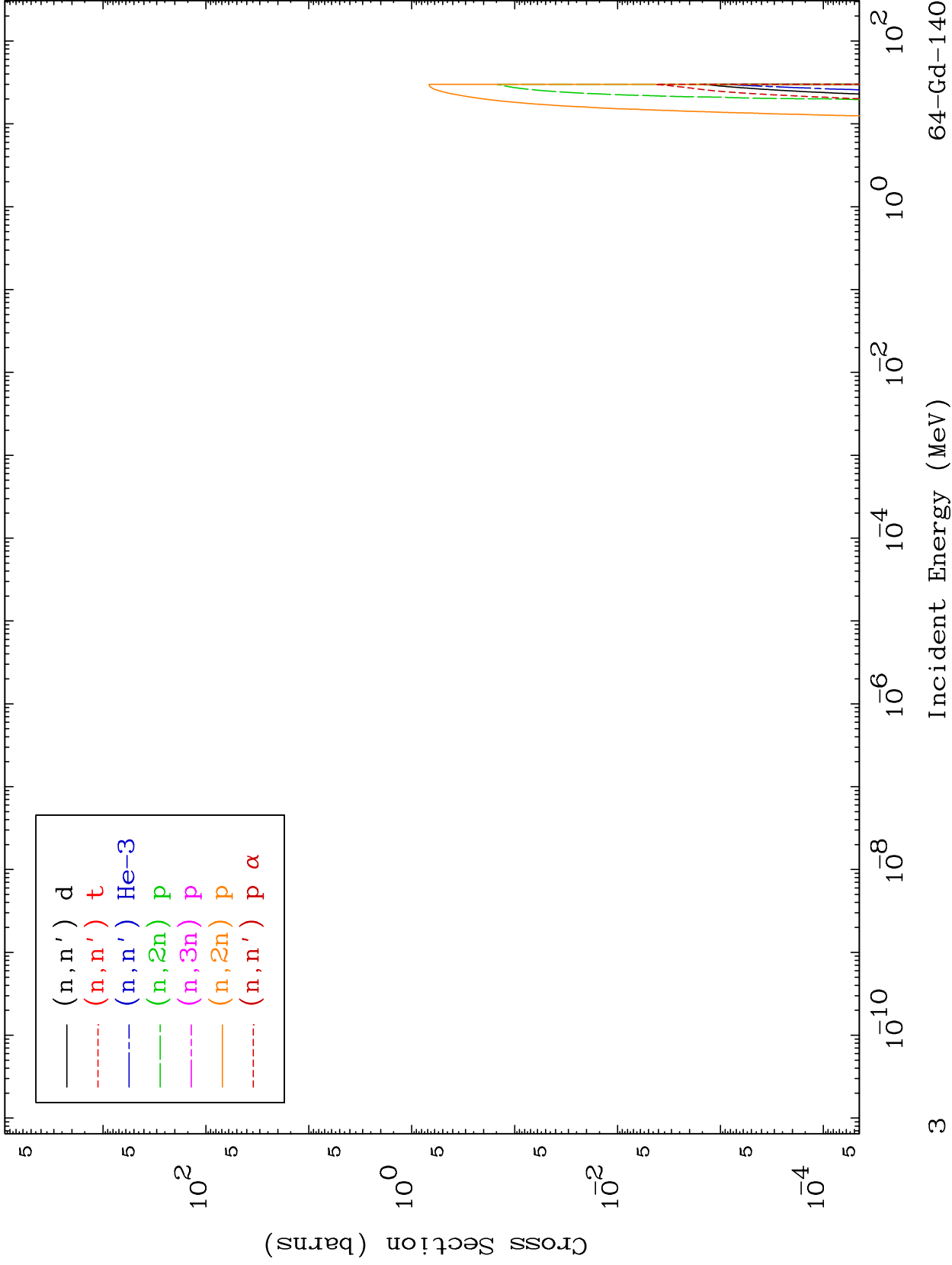
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MAT 6389

Neutron Absorption  
293 Kelvin Cross Sections

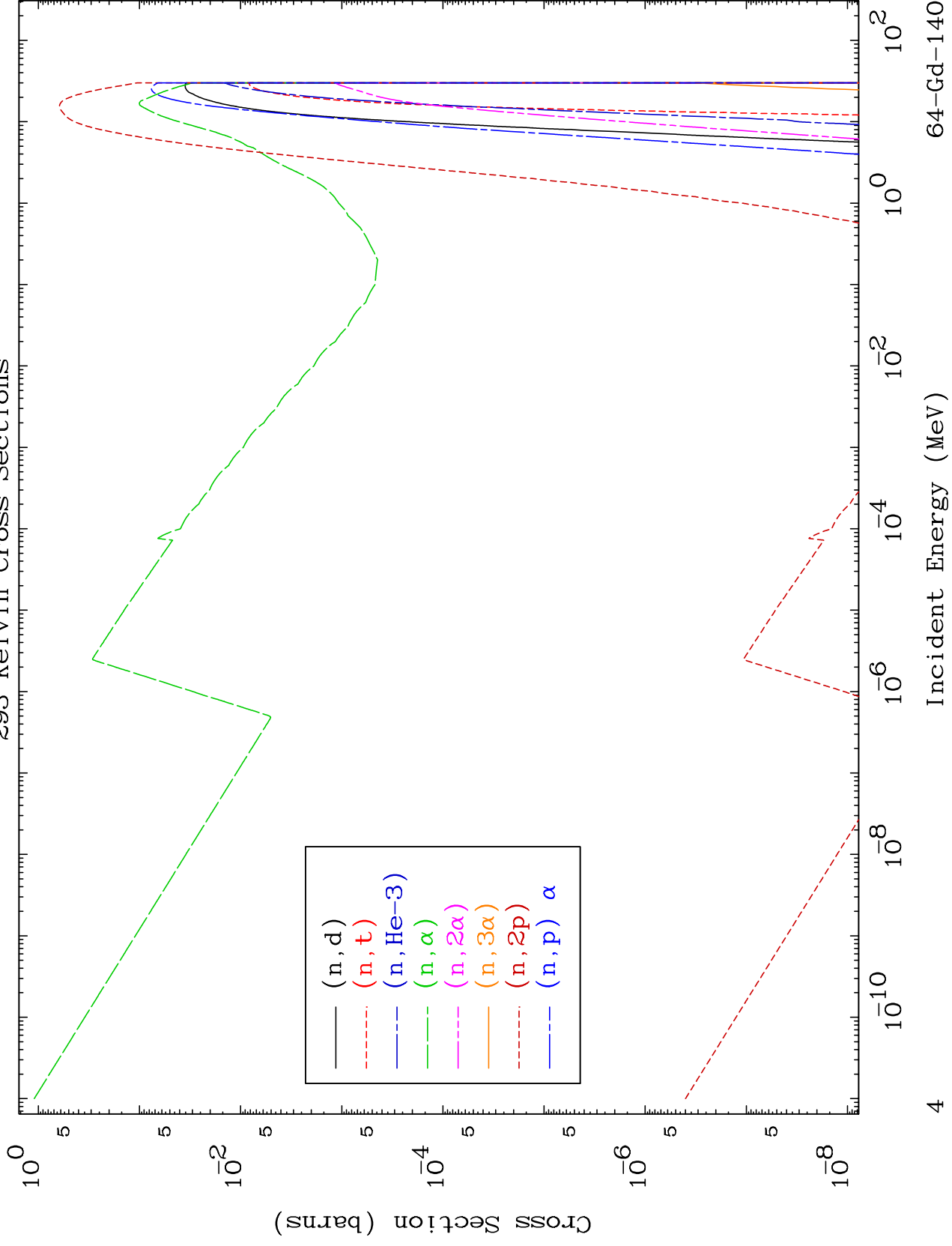
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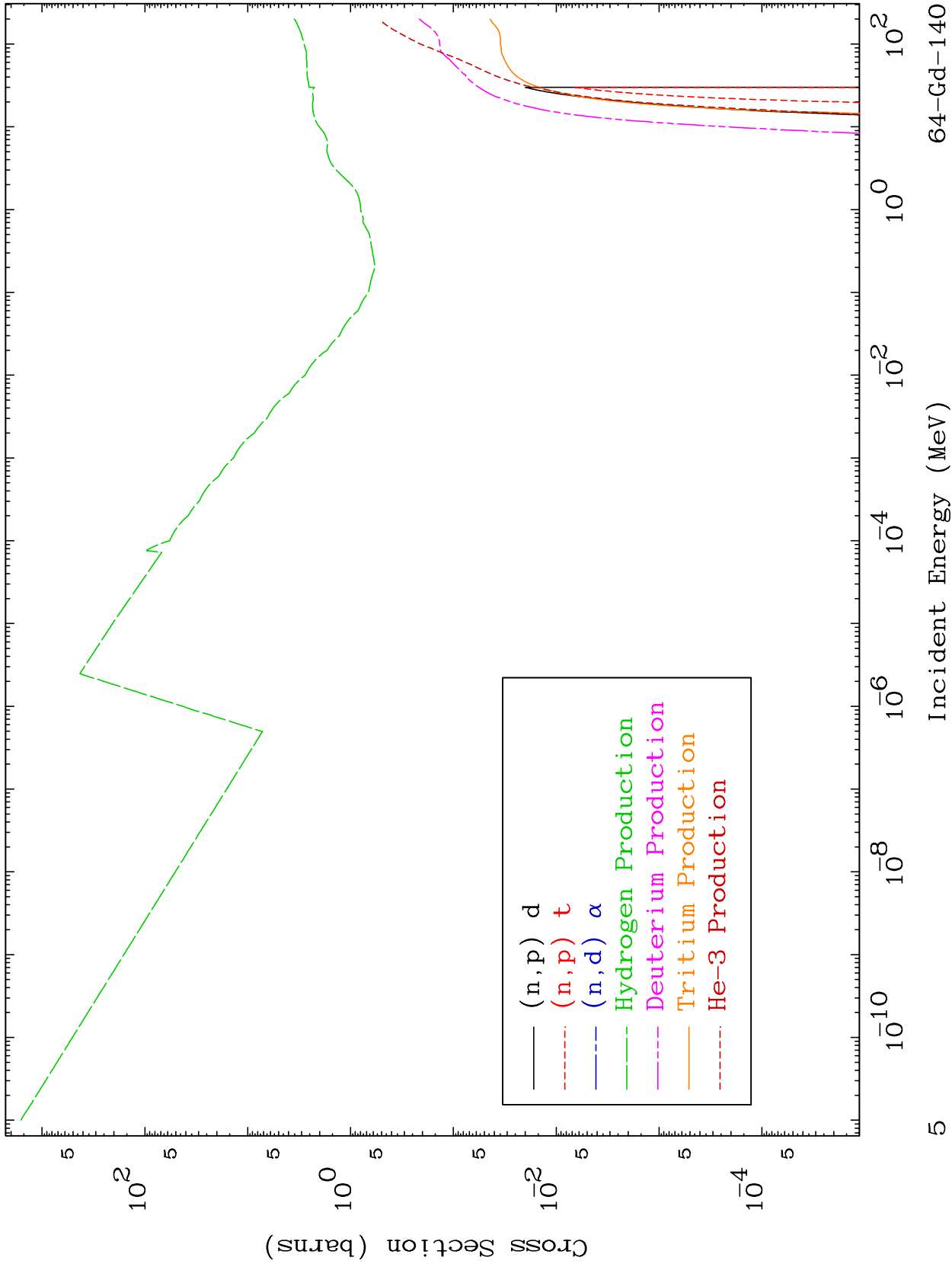


MAT 6389

Neutron Absorption  
293 Kelvin Cross Sections

64-Gd-140

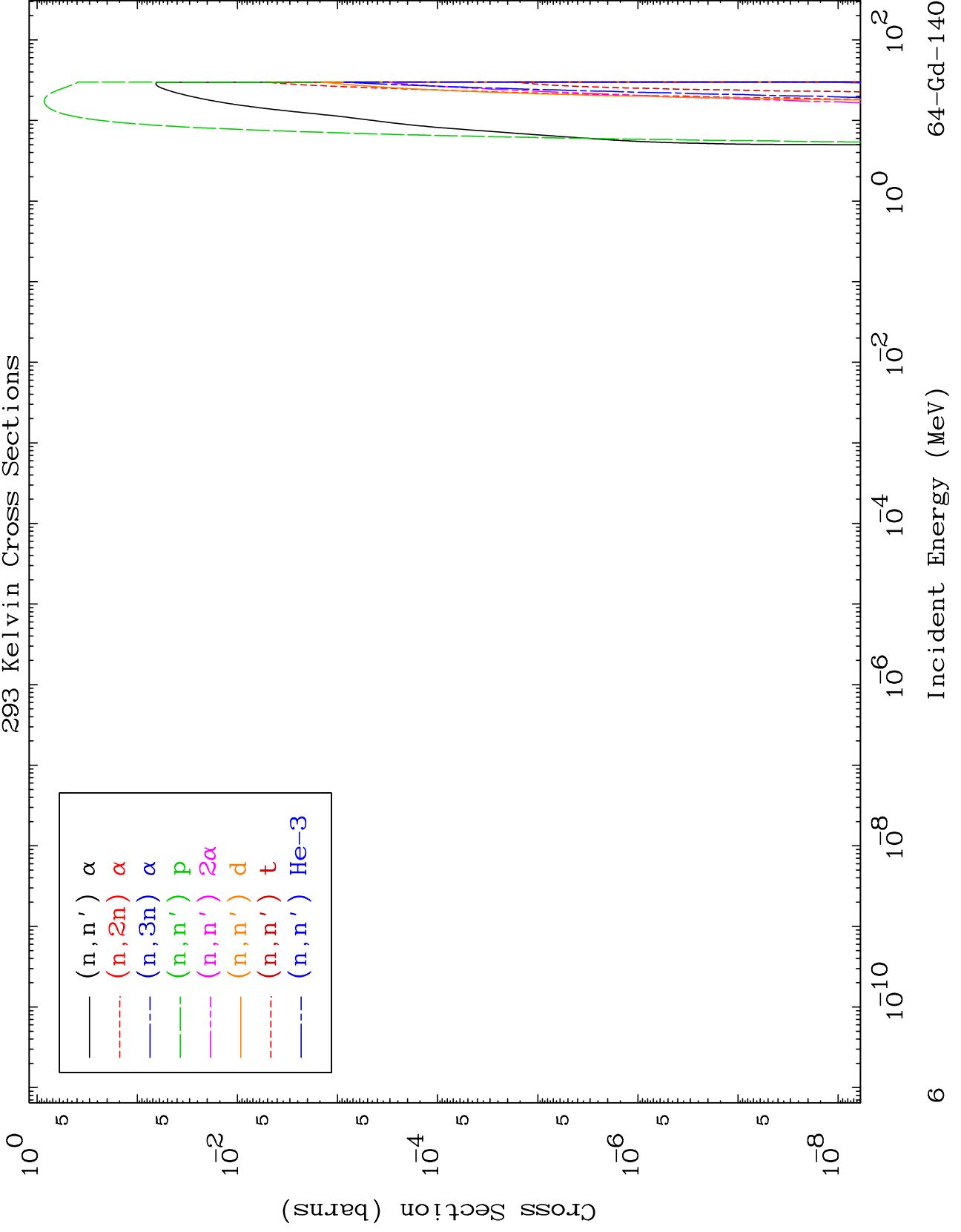




MAT 6389

Charged Particle  
293 Kelvin Cross Sections

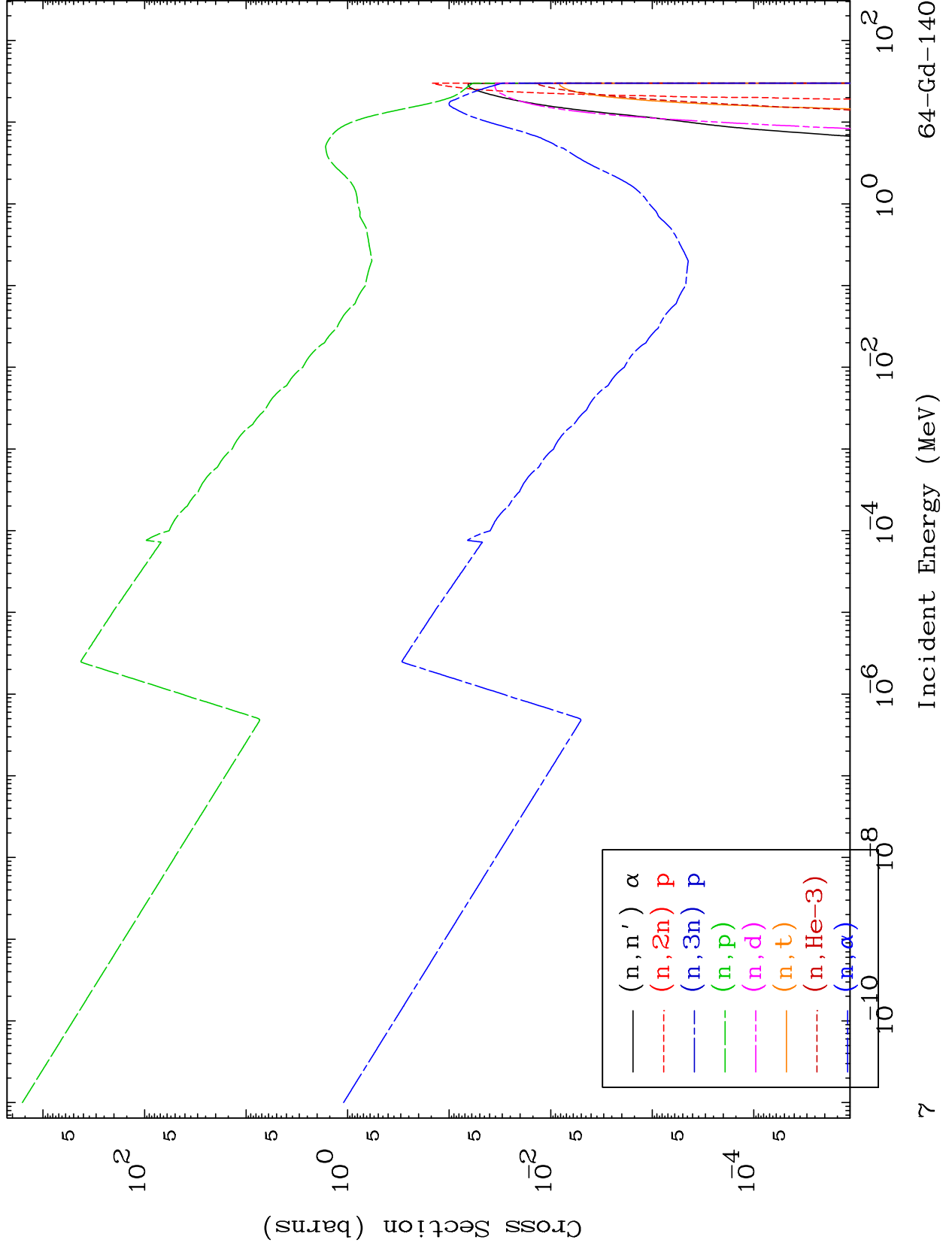
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MAT 6389

Charged Particle  
293 Kelvin Cross Sections

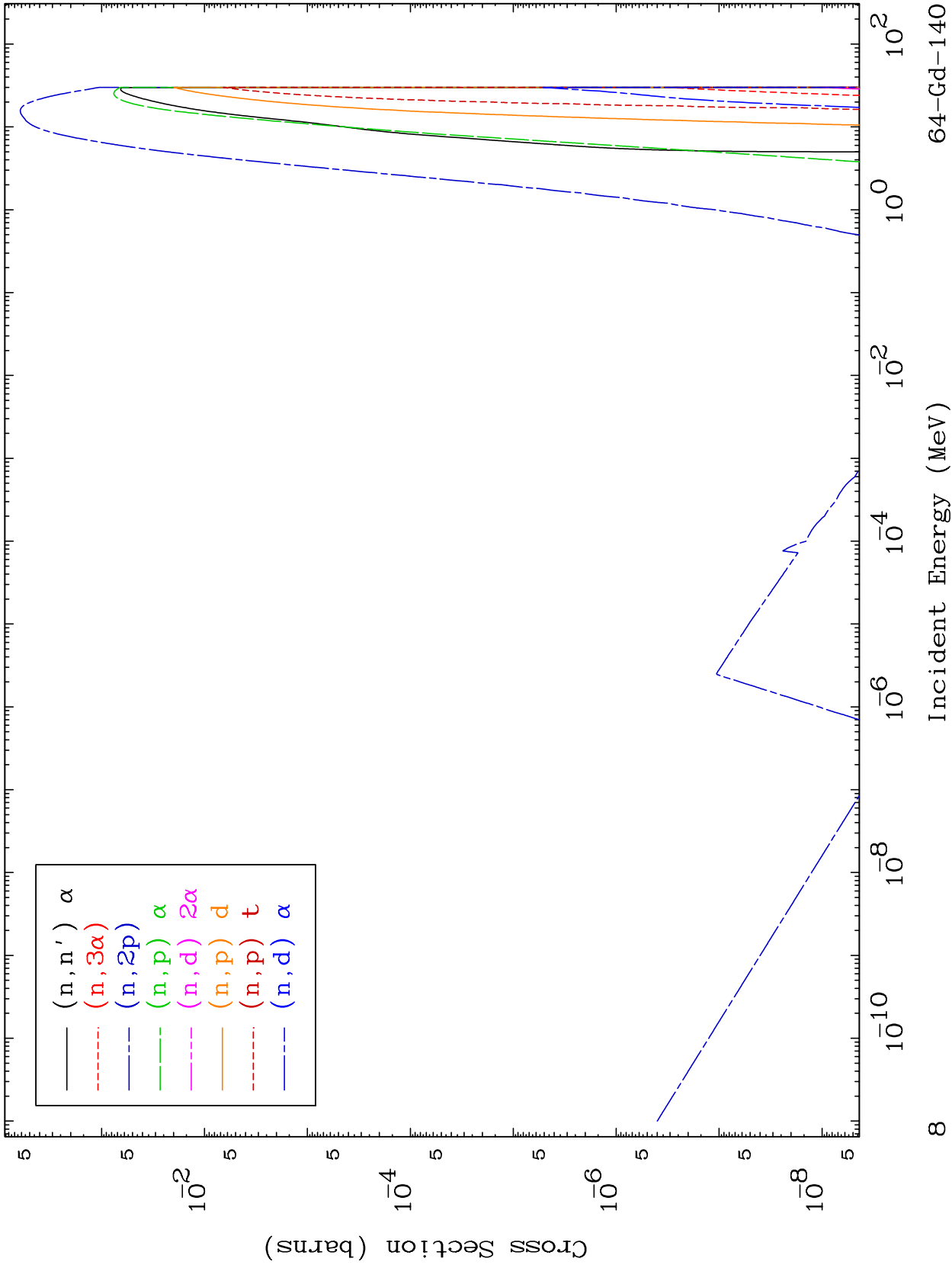
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MAT 6389

Charged Particle  
293 Kelvin Cross Sections

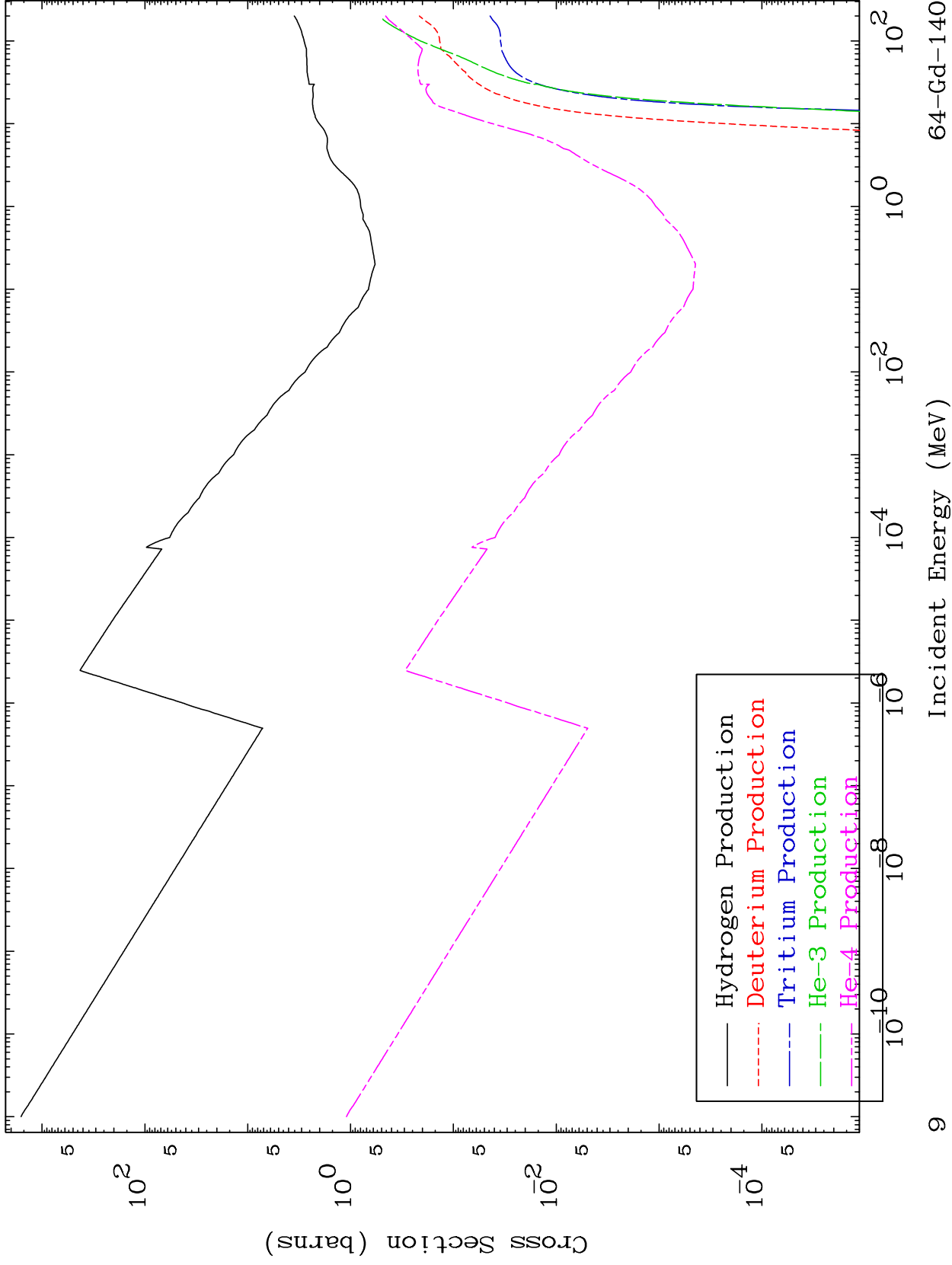
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MAT 6389

Particle Production  
293 Kelvin Cross Sections

64-Gd-140

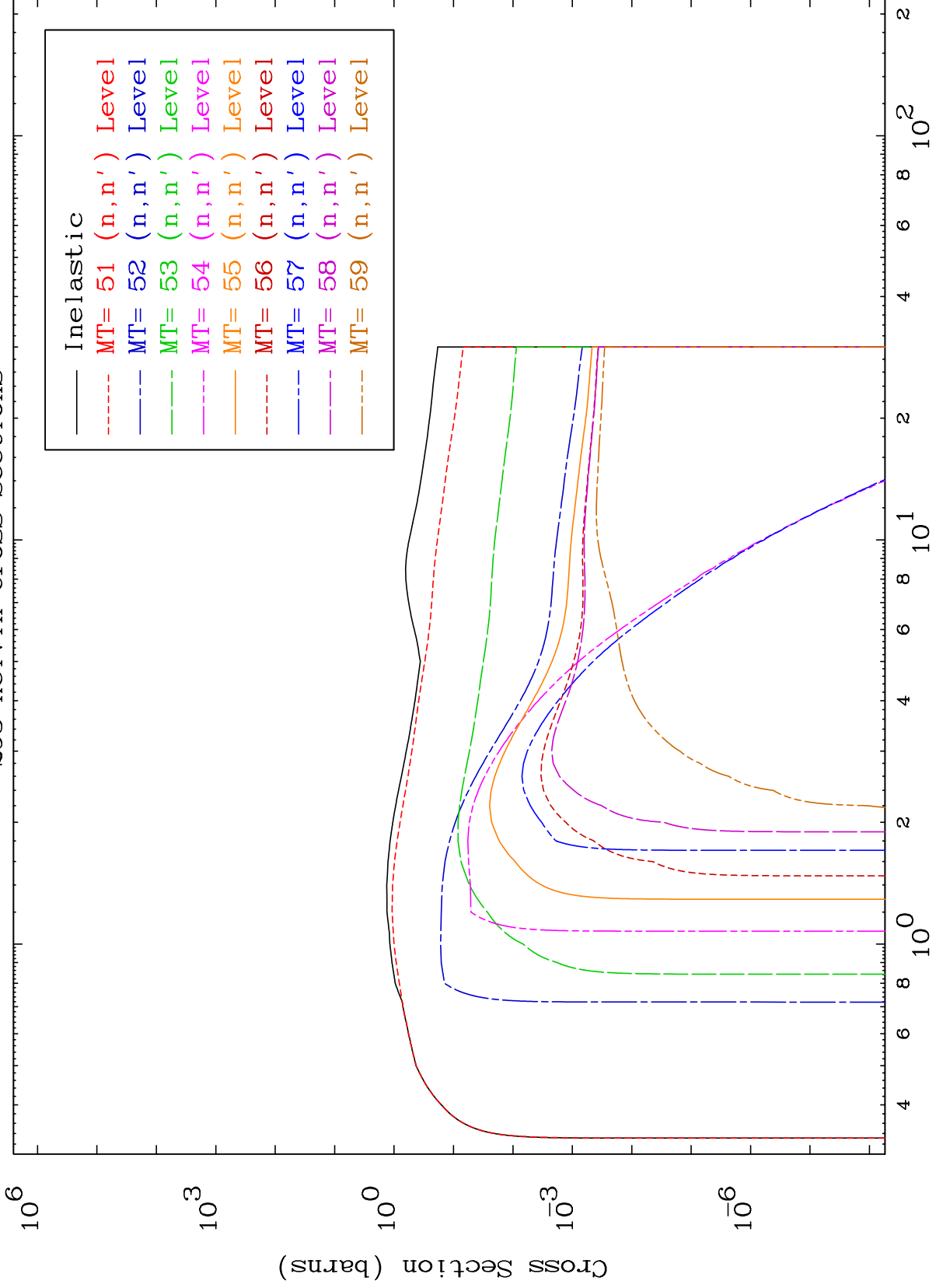


MAT 6389

(n,n') Levels

64-Gd-140

293 Kelvin Cross Sections



10

Incident Energy (MeV)

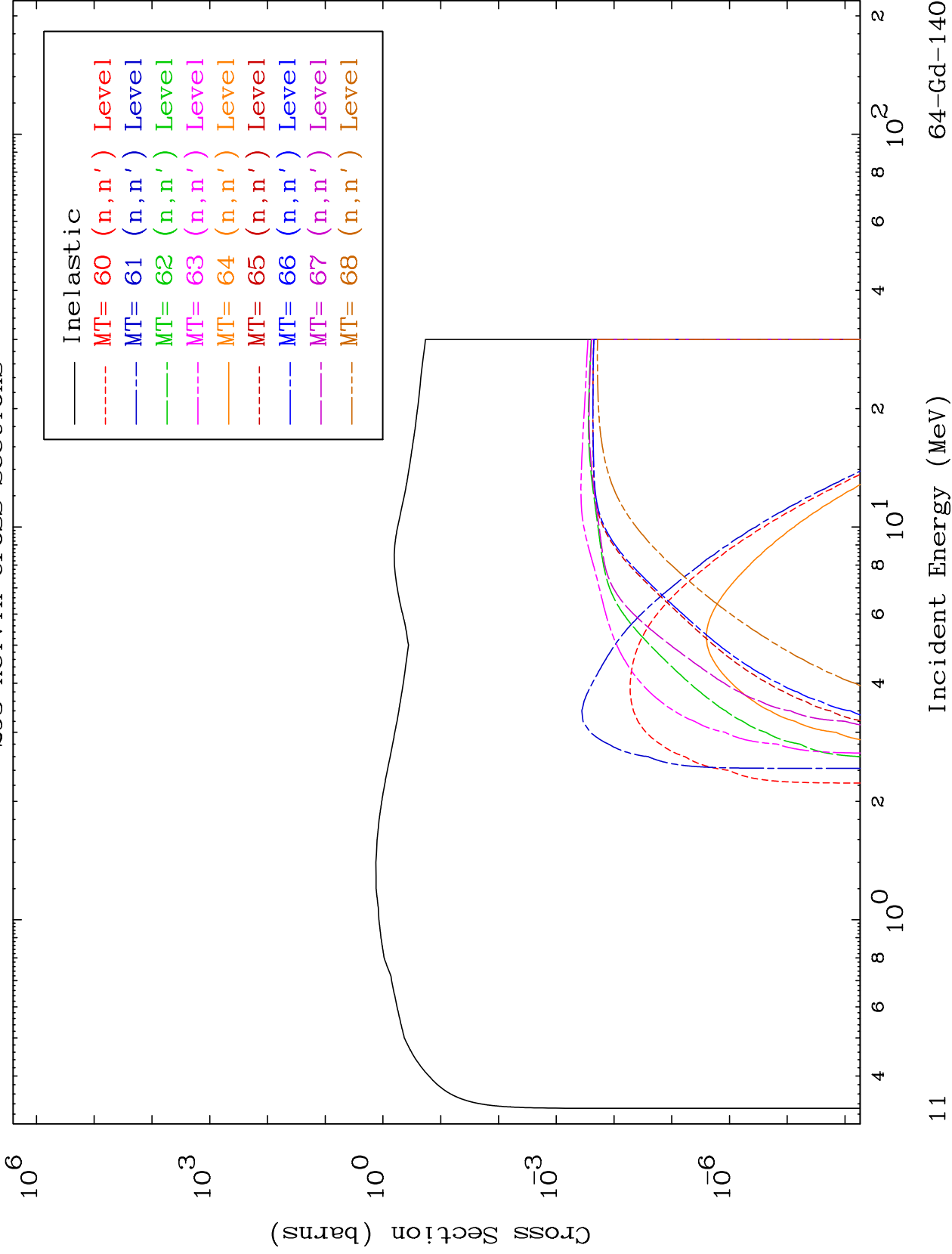
64-Gd-140

MAT 6389

(n,n') Levels

64-Gd-140

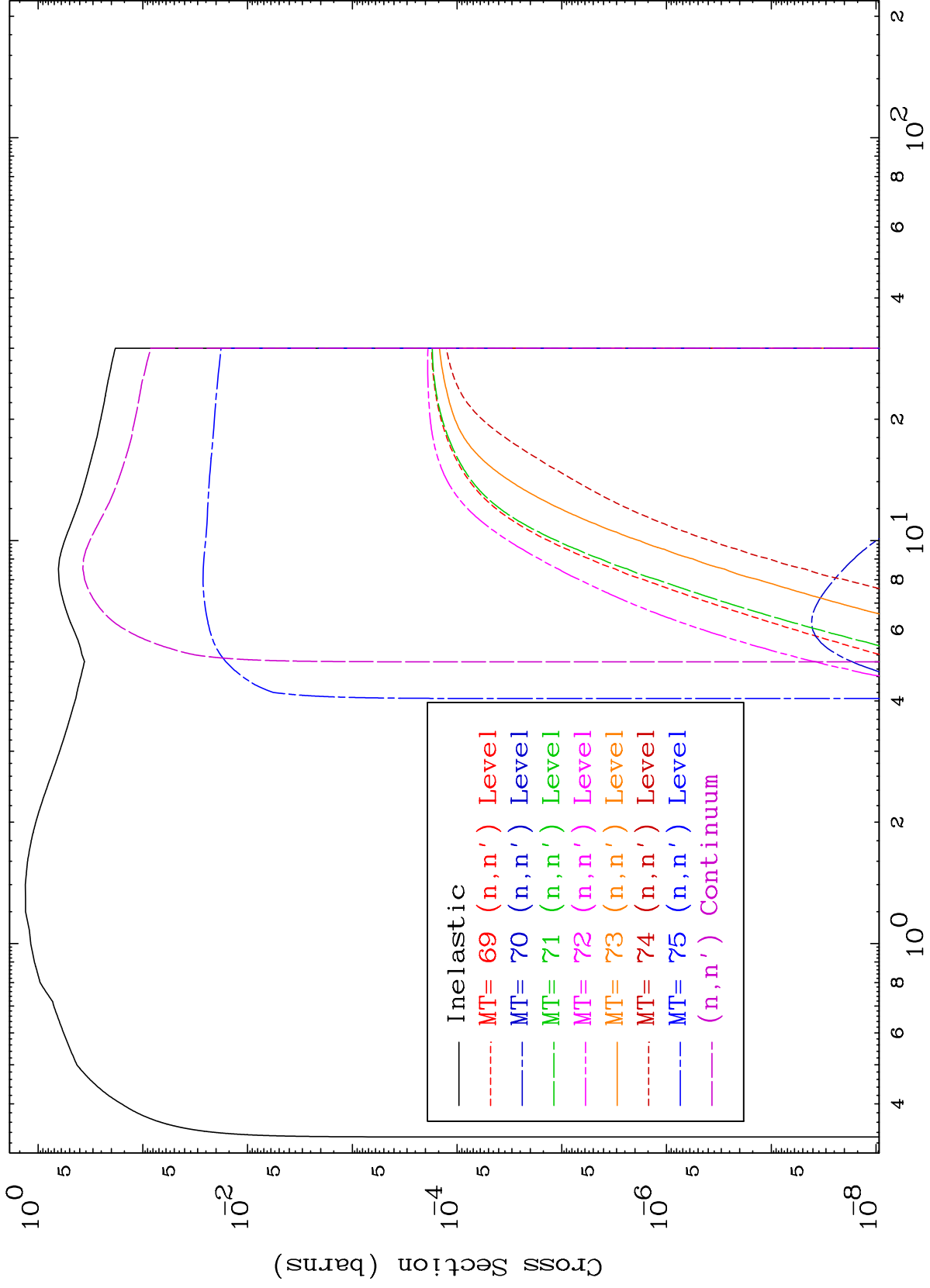
293 Kelvin Cross Sections



MAT 6389

(n,n') Levels  
293 Kelvin Cross Sections

64-Gd-140



12

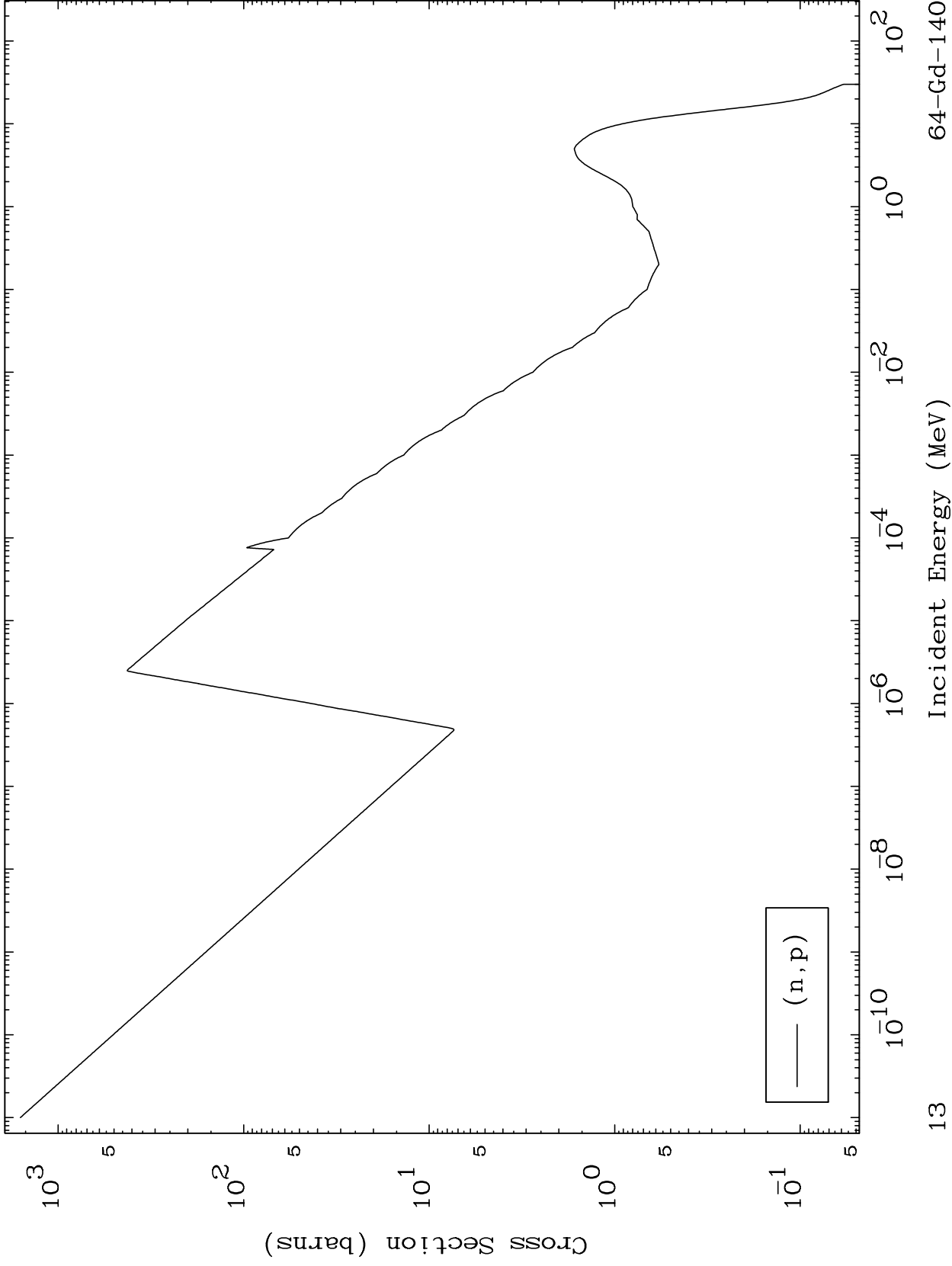
Incident Energy (MeV)

64-Gd-140

MAT 6389

(n,p) Levels  
293 Kelvin Cross Sections

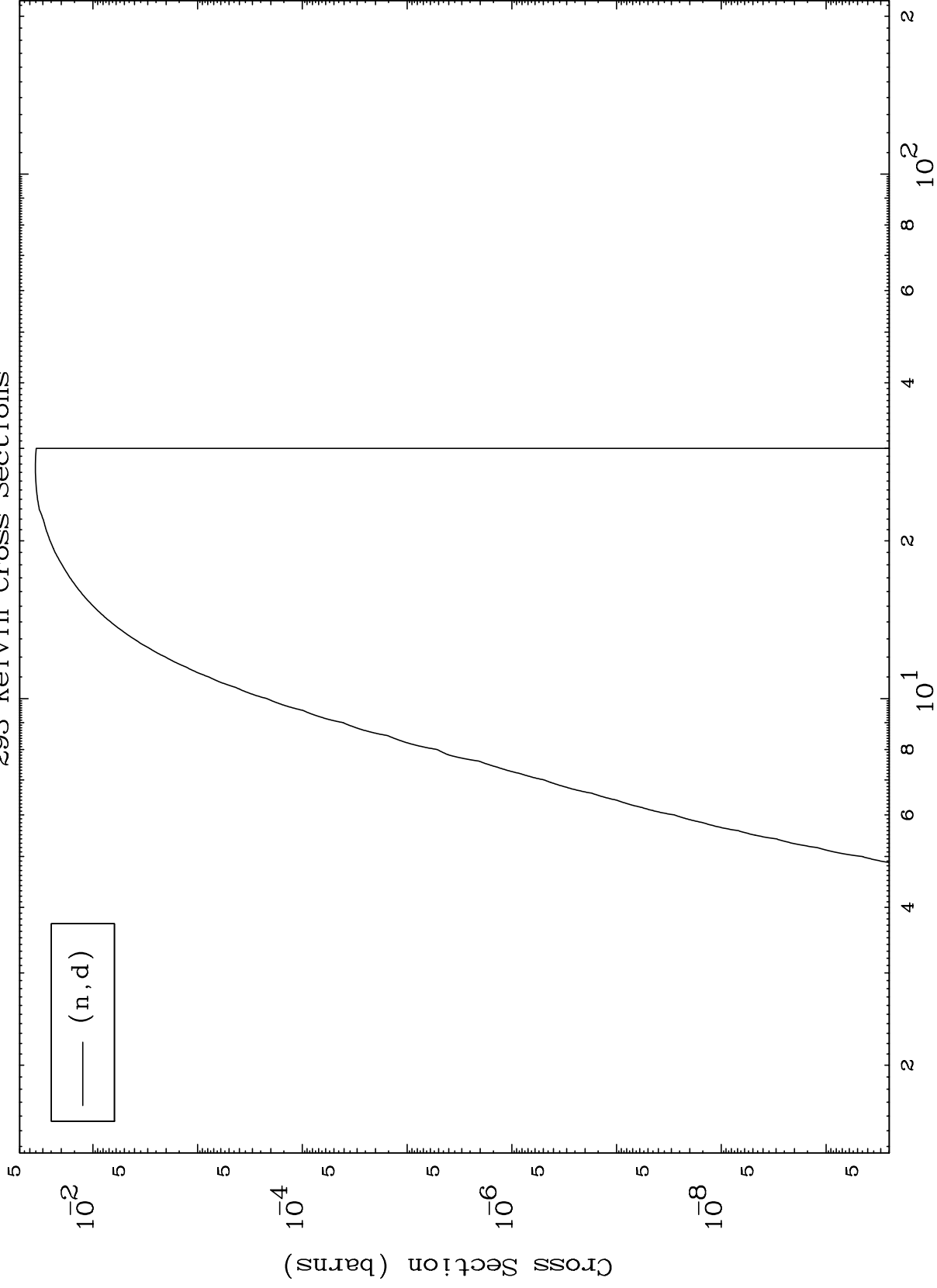
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MAT 6389

(n,d) Levels  
293 Kelvin Cross Sections

64-Gd-140



14

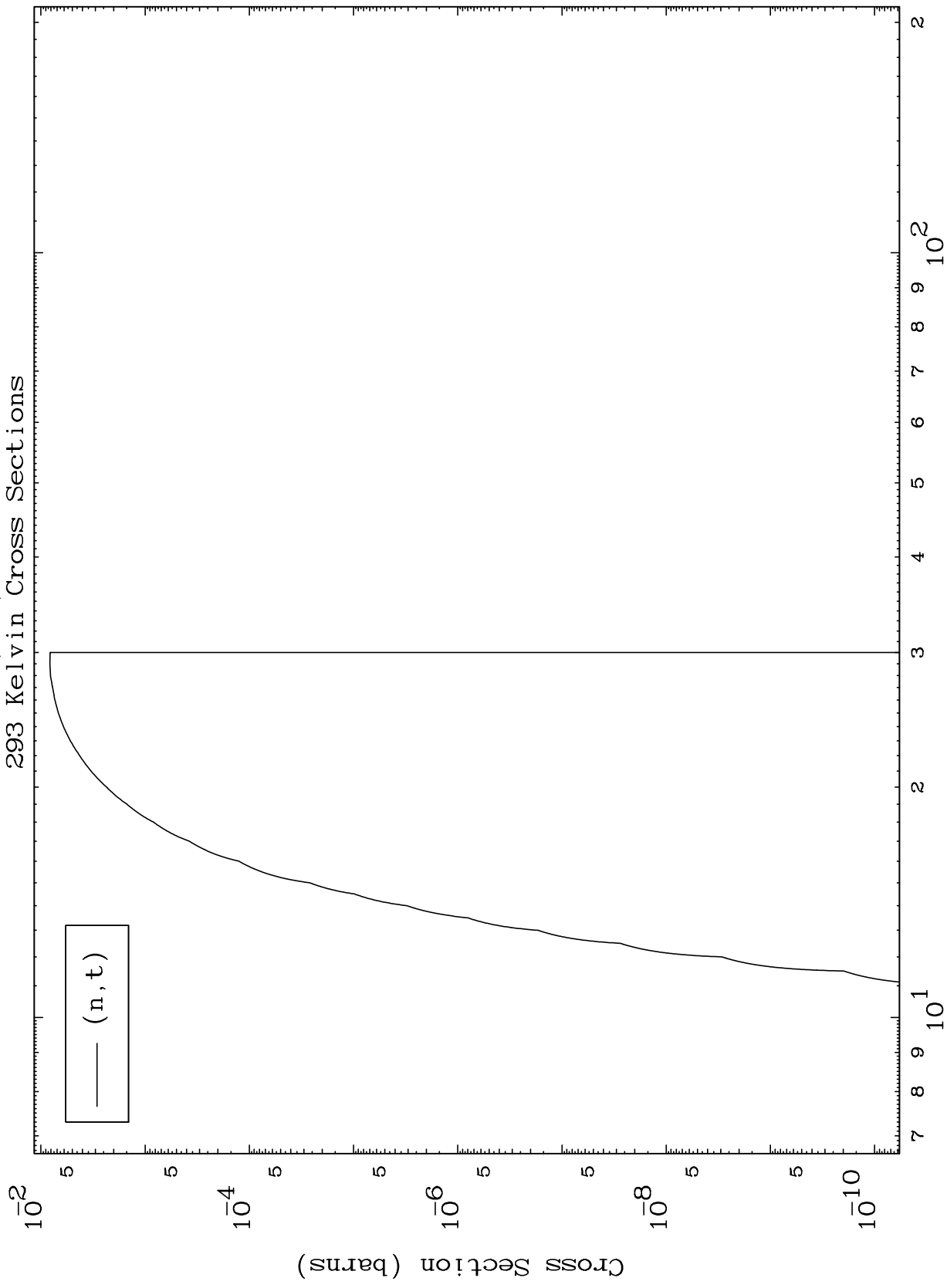
Incident Energy (MeV)

64-Gd-140

MAT 6389

(n,t) Levels  
293 Kelvin Cross Sections

64-Gd-140



15

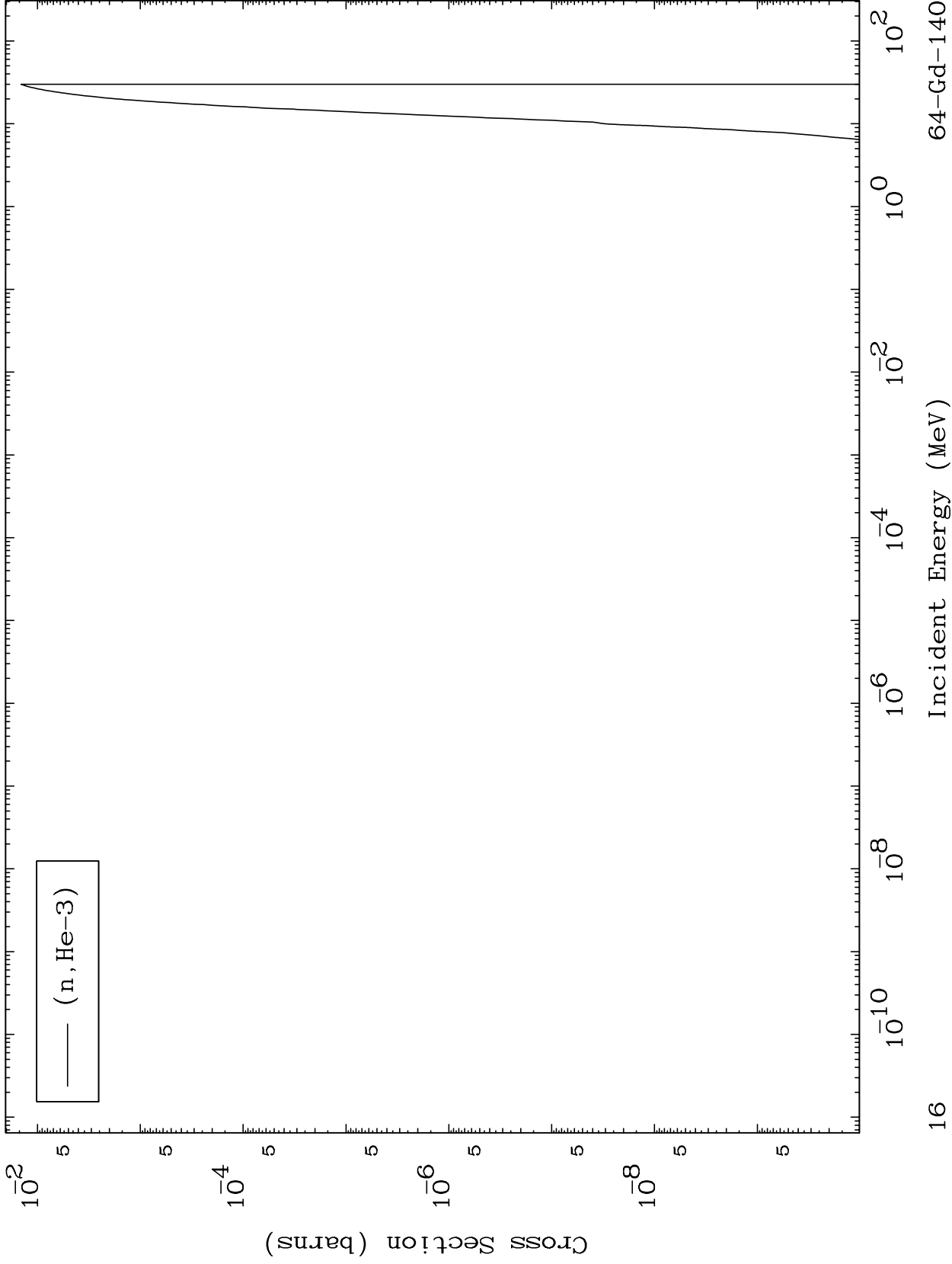
Incident Energy (MeV)

64-Gd-140

MAT 6389

(n,He3) Levels  
293 Kelvin Cross Sections

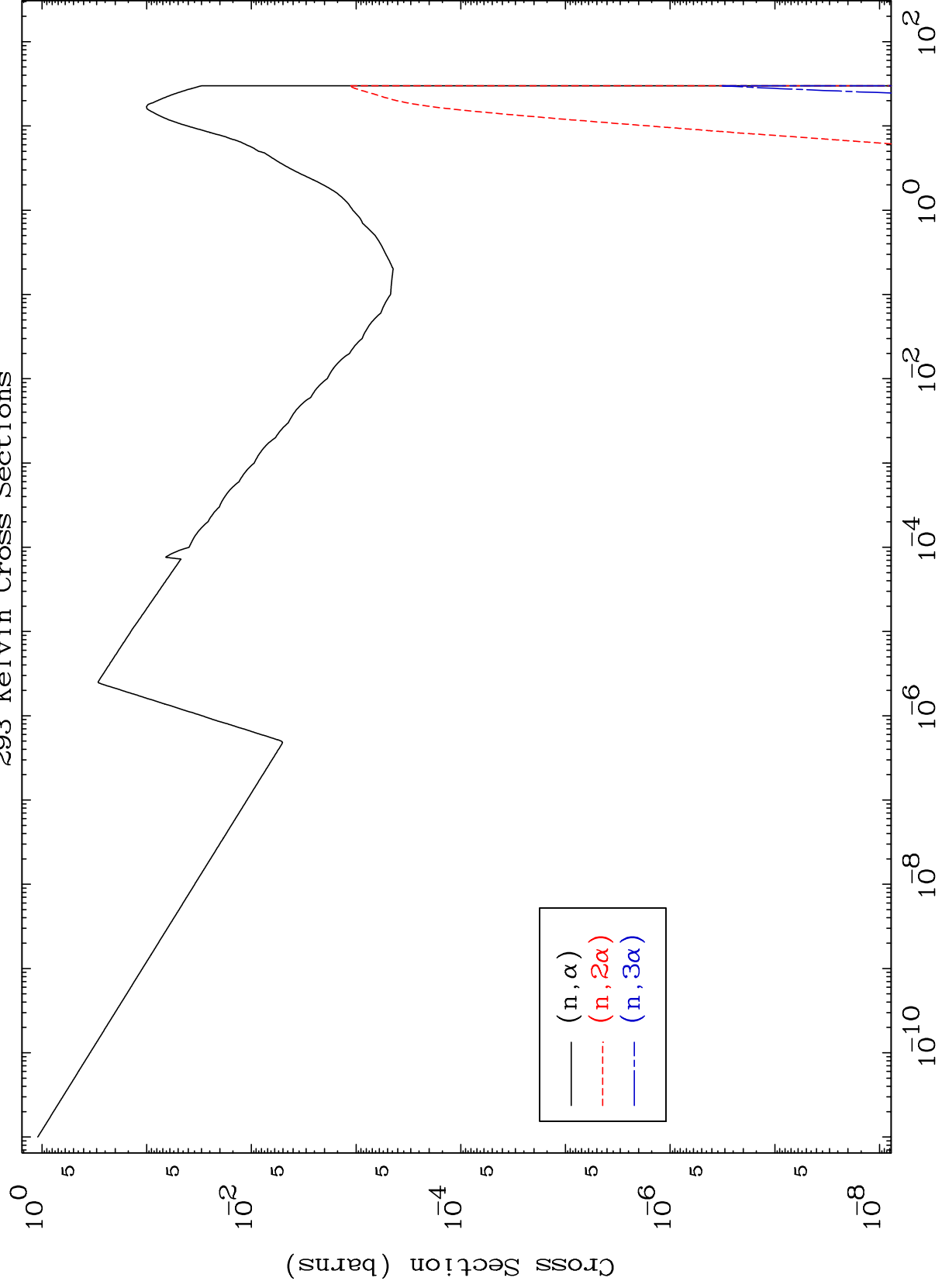
64-Gd-140



MAT 6389

(n,  $\alpha$ ) Levels  
293 Kelvin Cross Sections

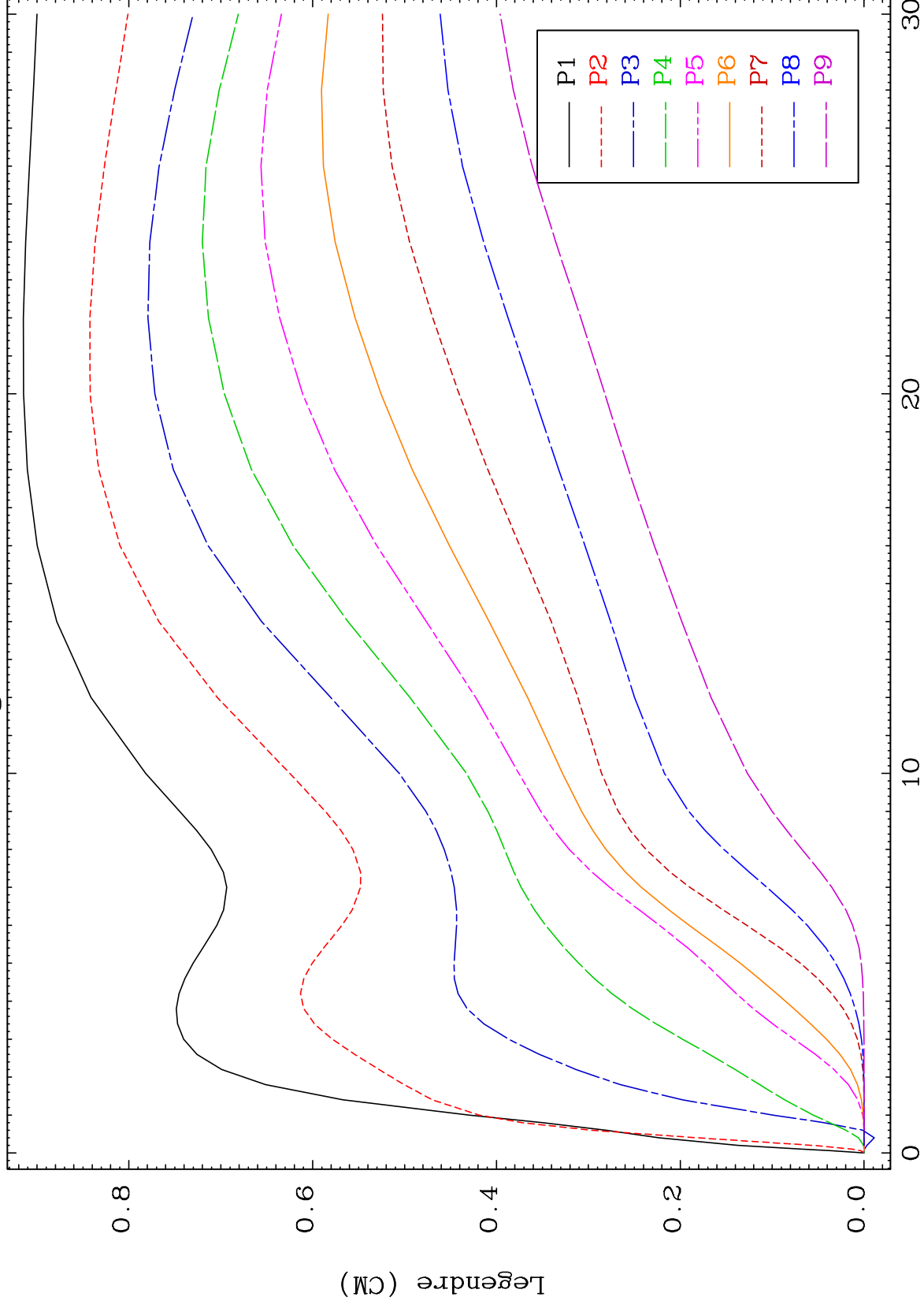
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MAT 6389

Elastic Legendre Coefficients

64-Gd-140



18

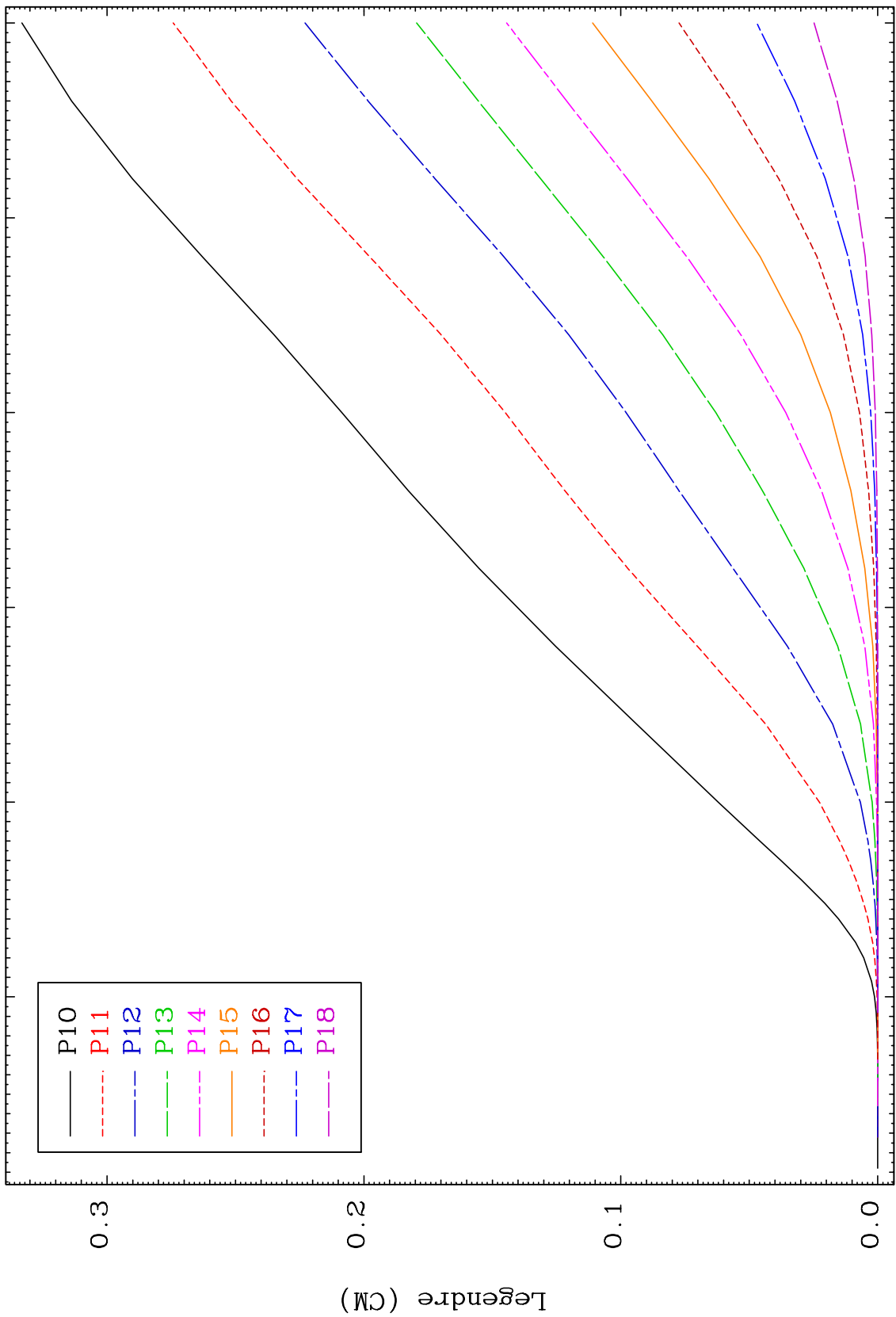
Incident Energy (MeV)

64-Gd-140

MAT 6389

Elastic Legendre Coefficients

64-Gd-140



19

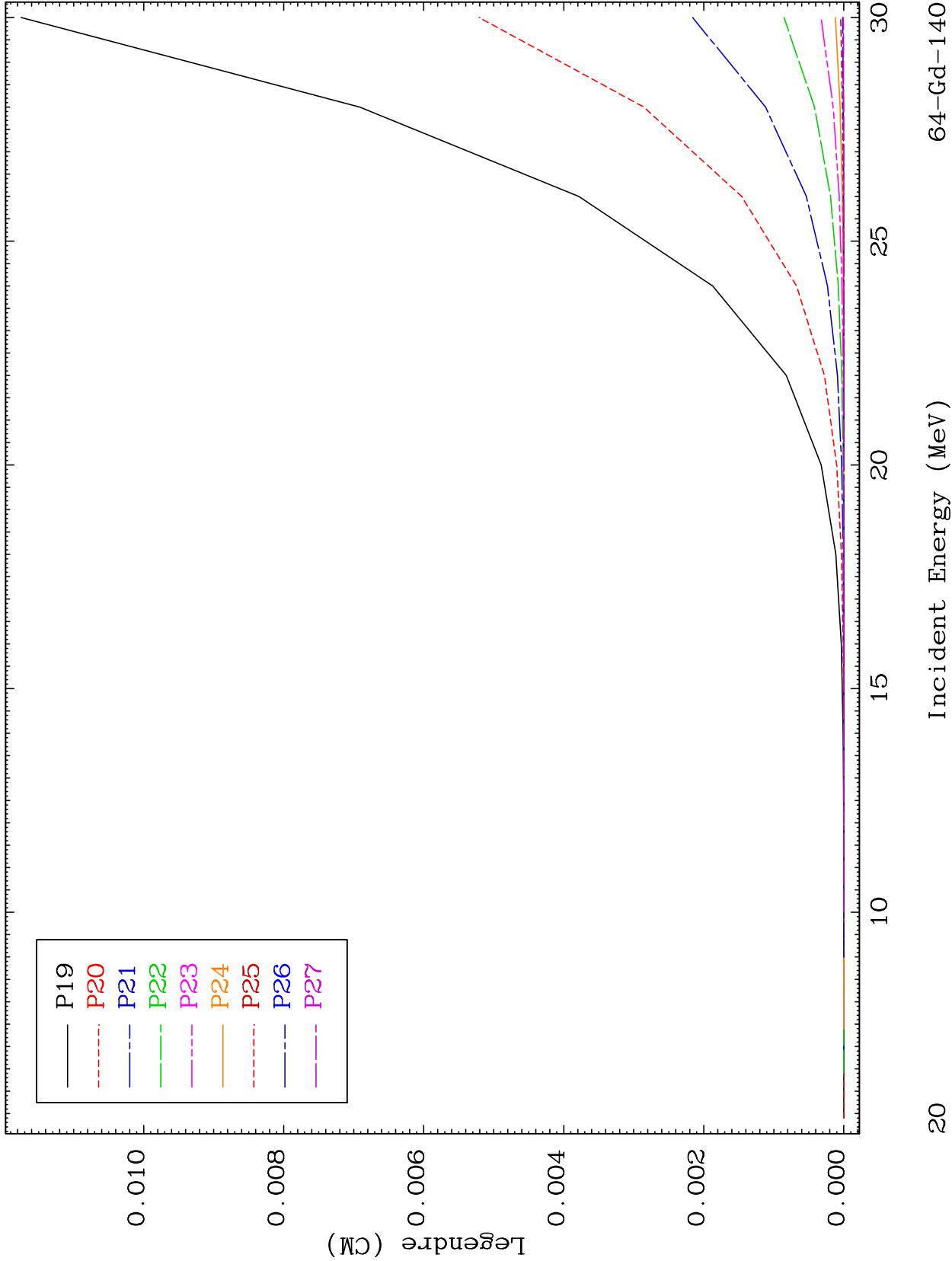
Incident Energy (MeV)

64-Gd-140

MAT 6389

### Elastic Legendre Coefficients

64-Gd-140



20

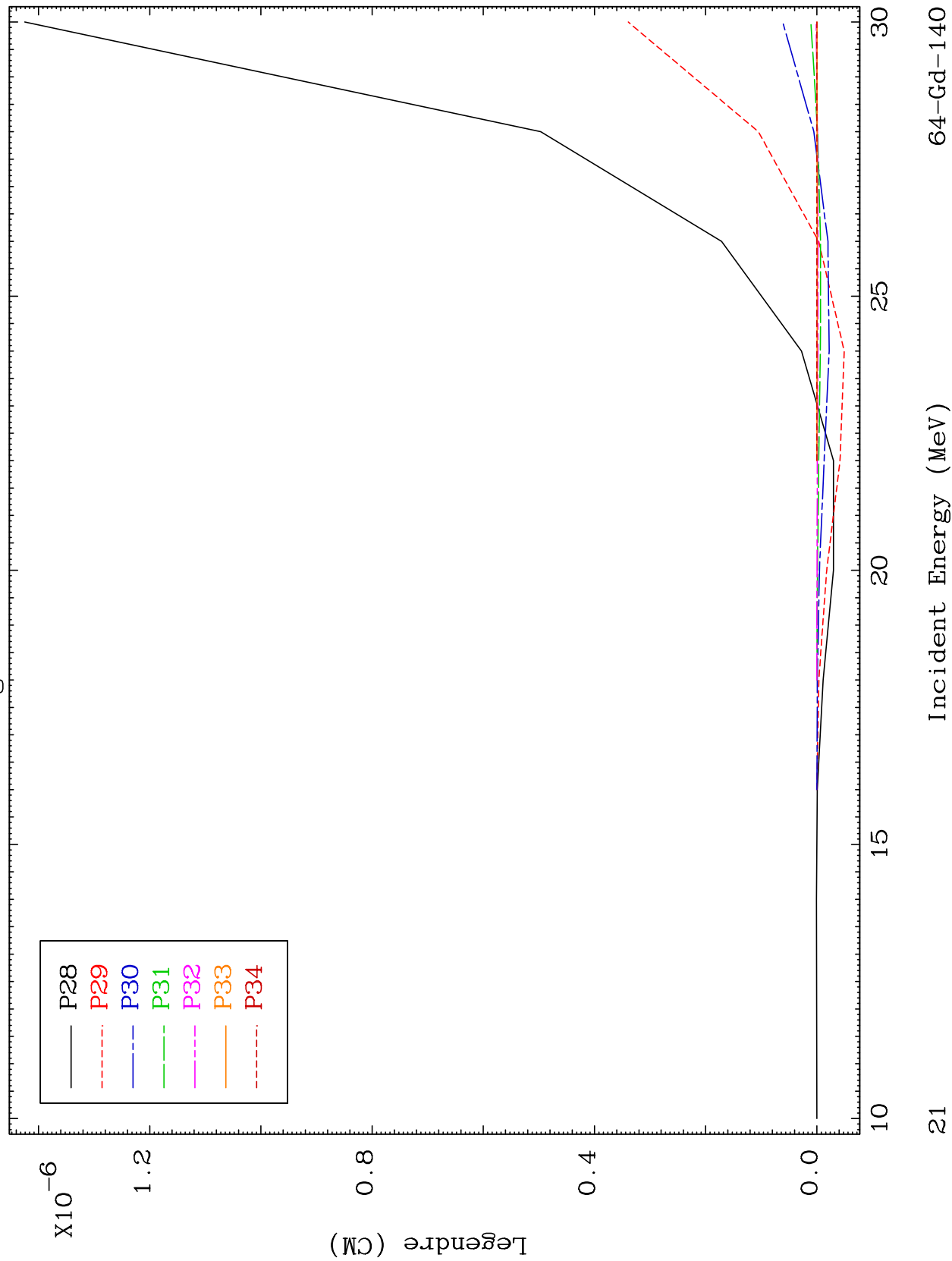
Incident Energy (MeV)

64-Gd-140

MAT 6389

Elastic  
Legendre Coefficients

64-Gd-140



21

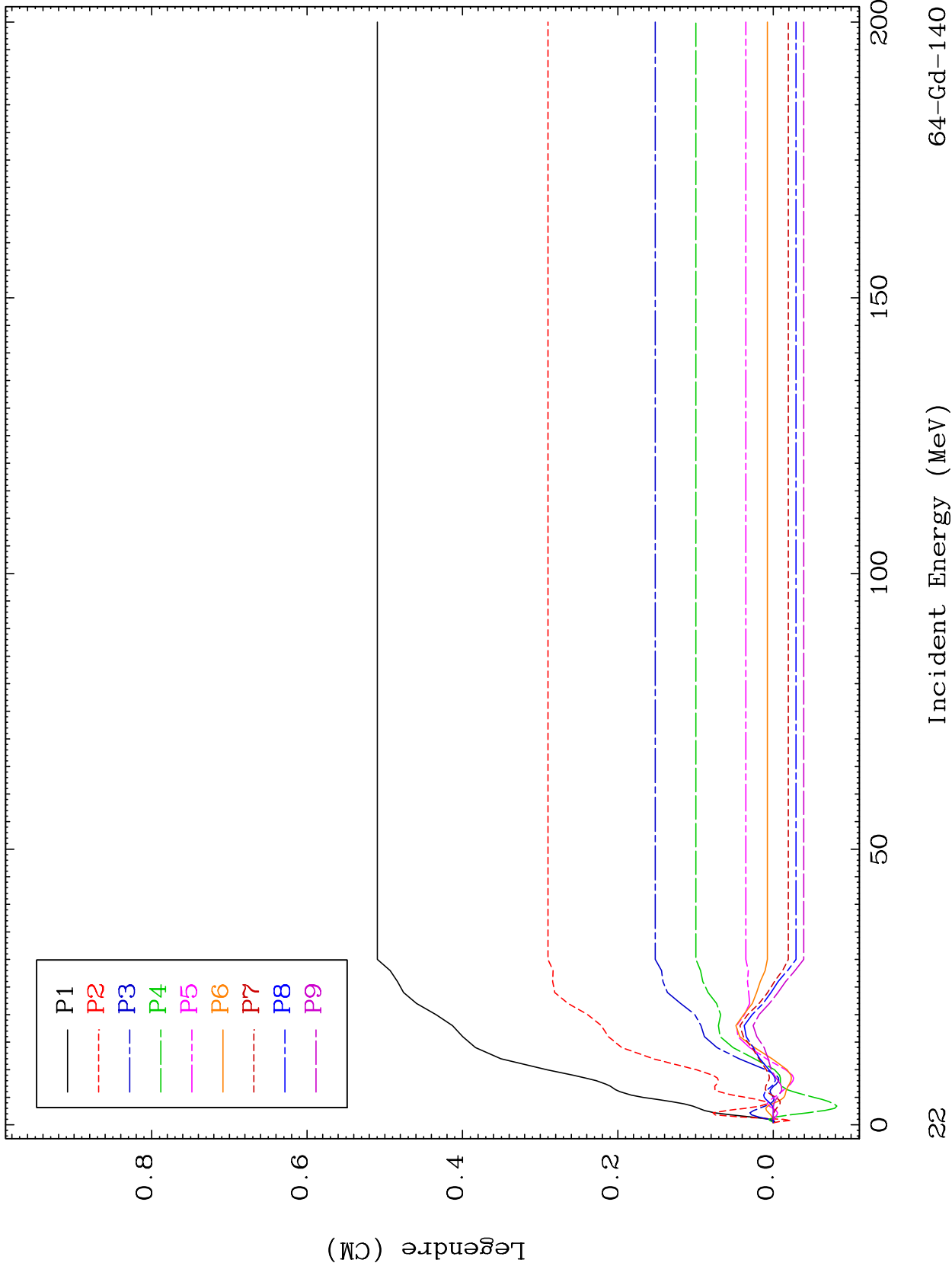
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

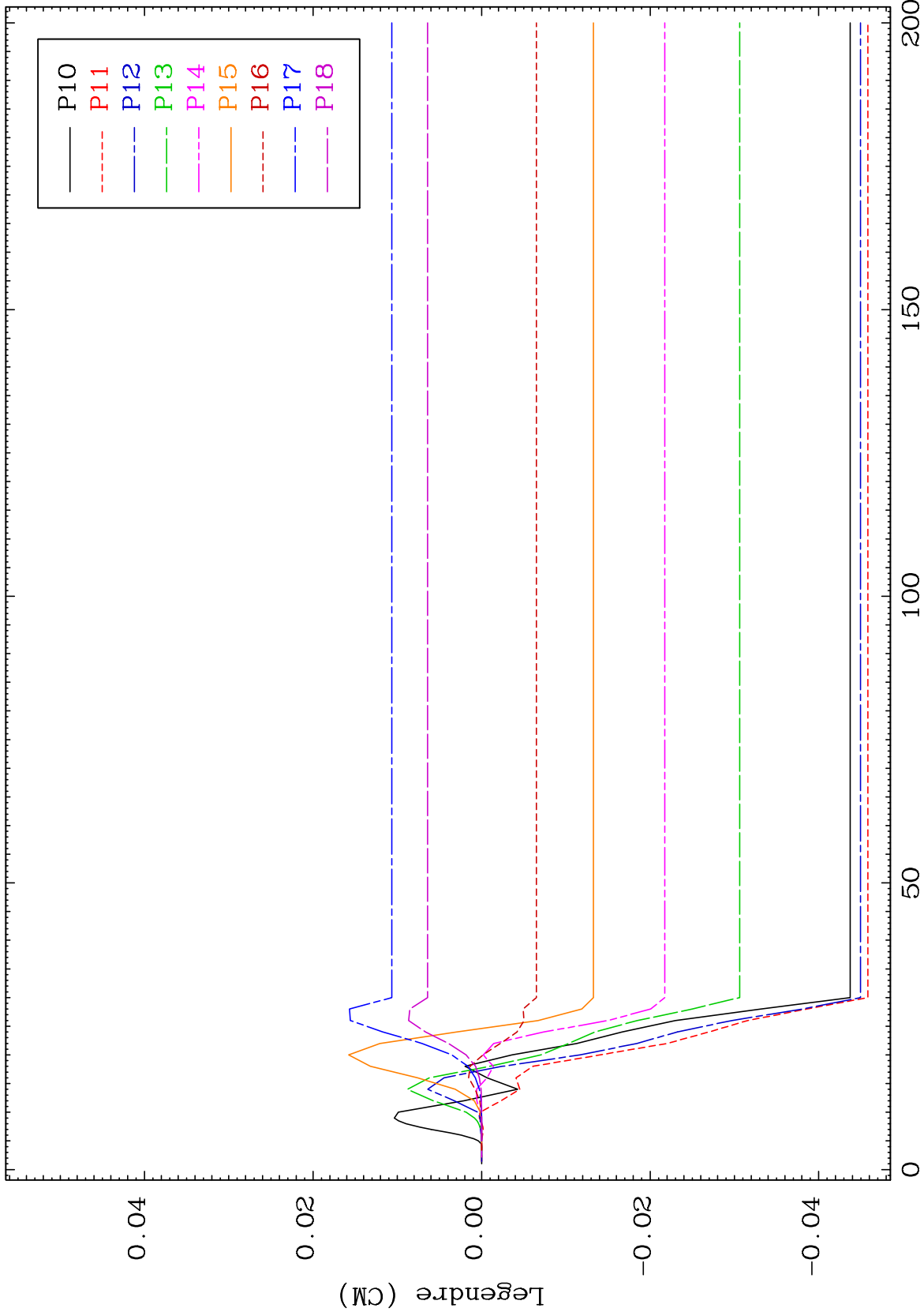
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MAT 6389

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

64-Gd-140



23

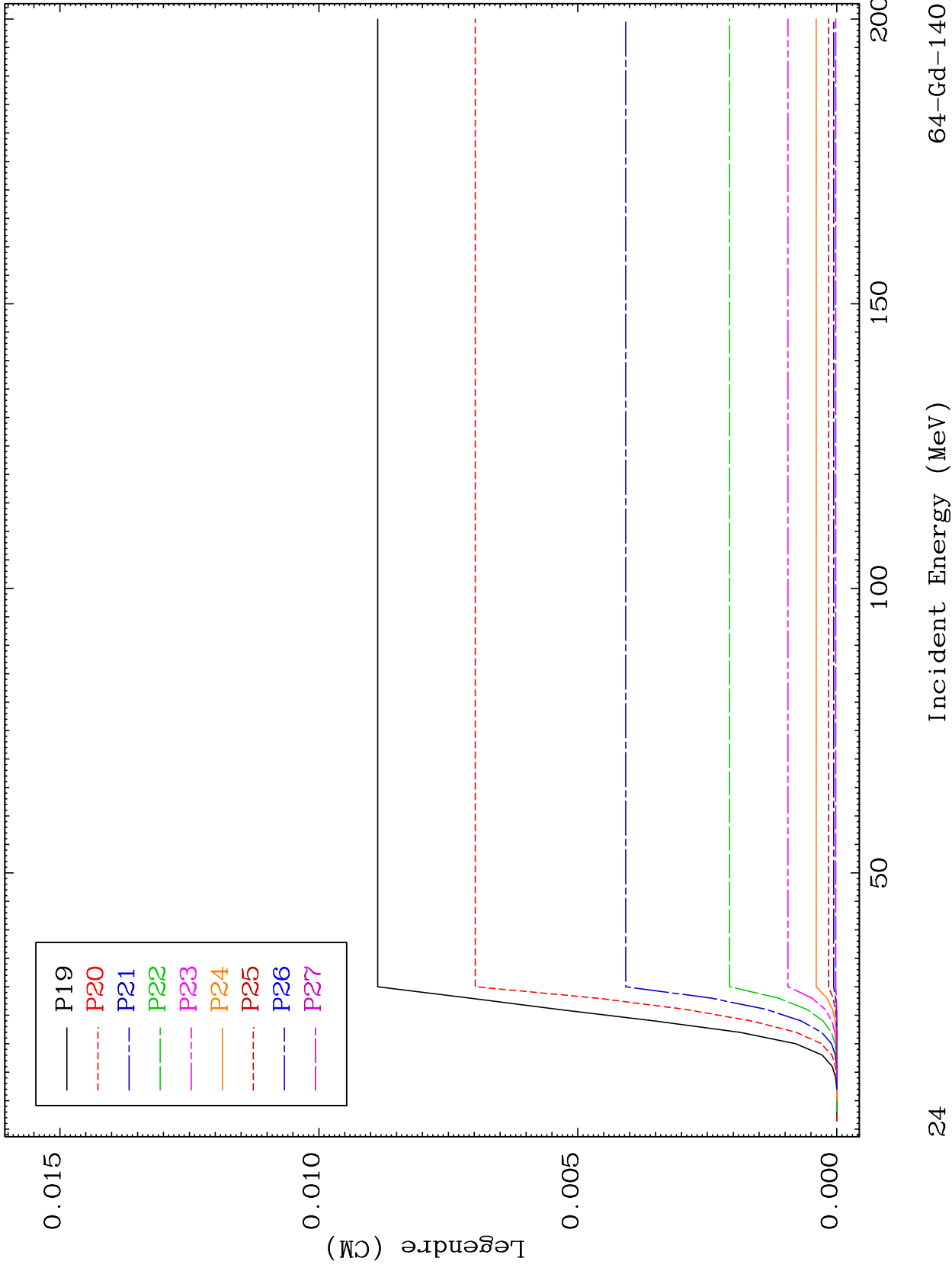
Incident Energy (MeV)

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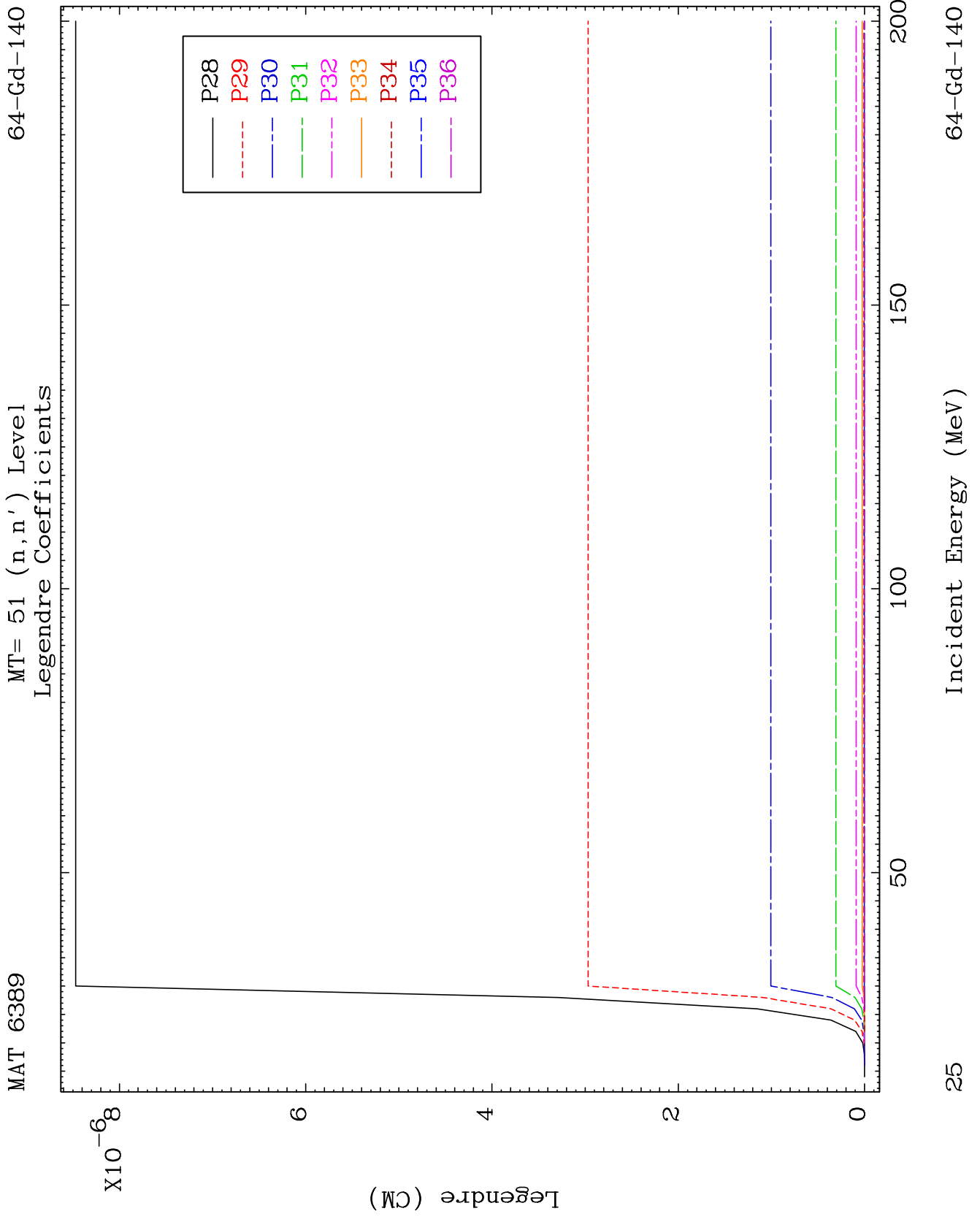
MAT 6389

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

64-Gd-140



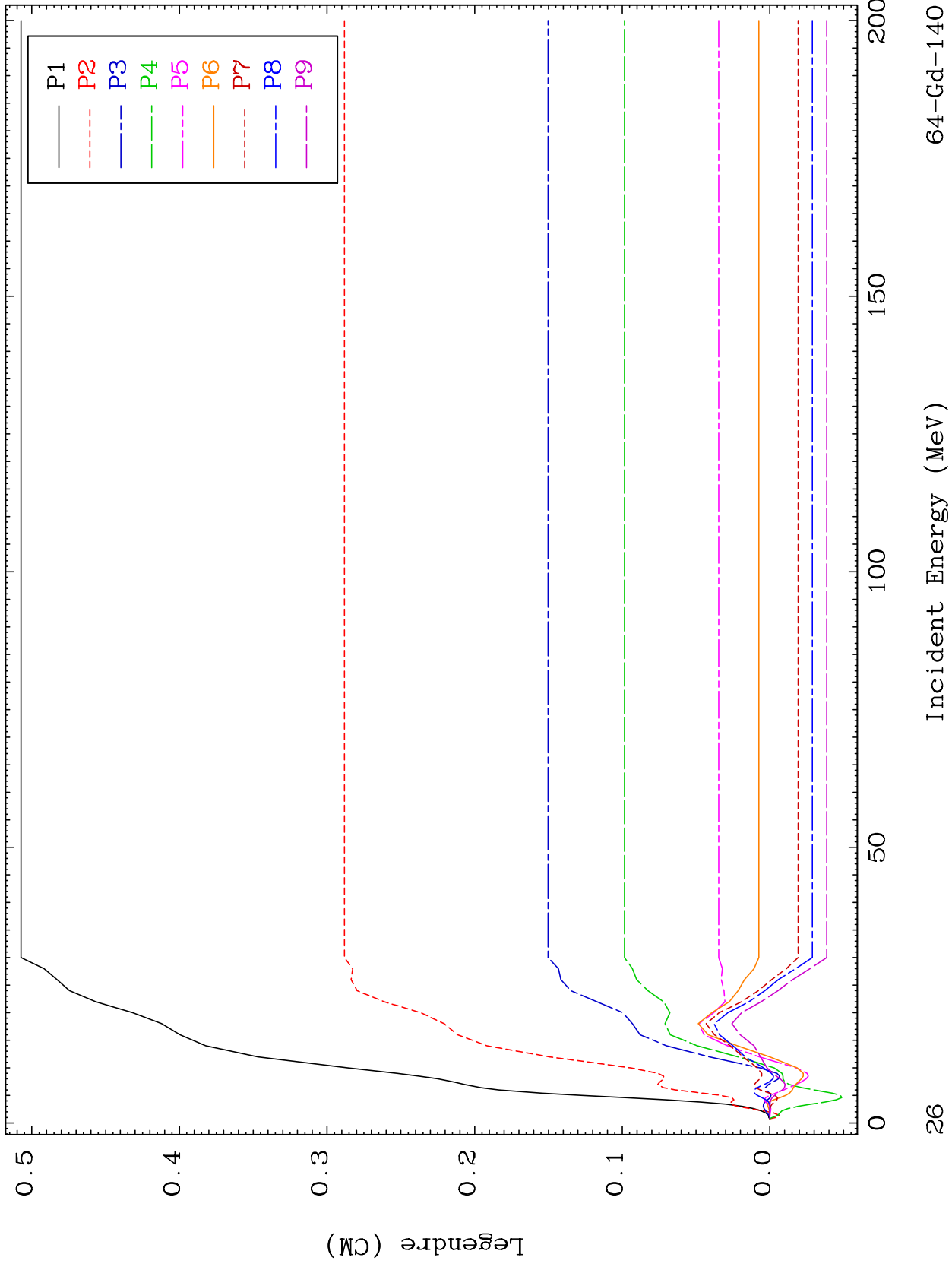
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MAT 6389

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

64-Gd-140

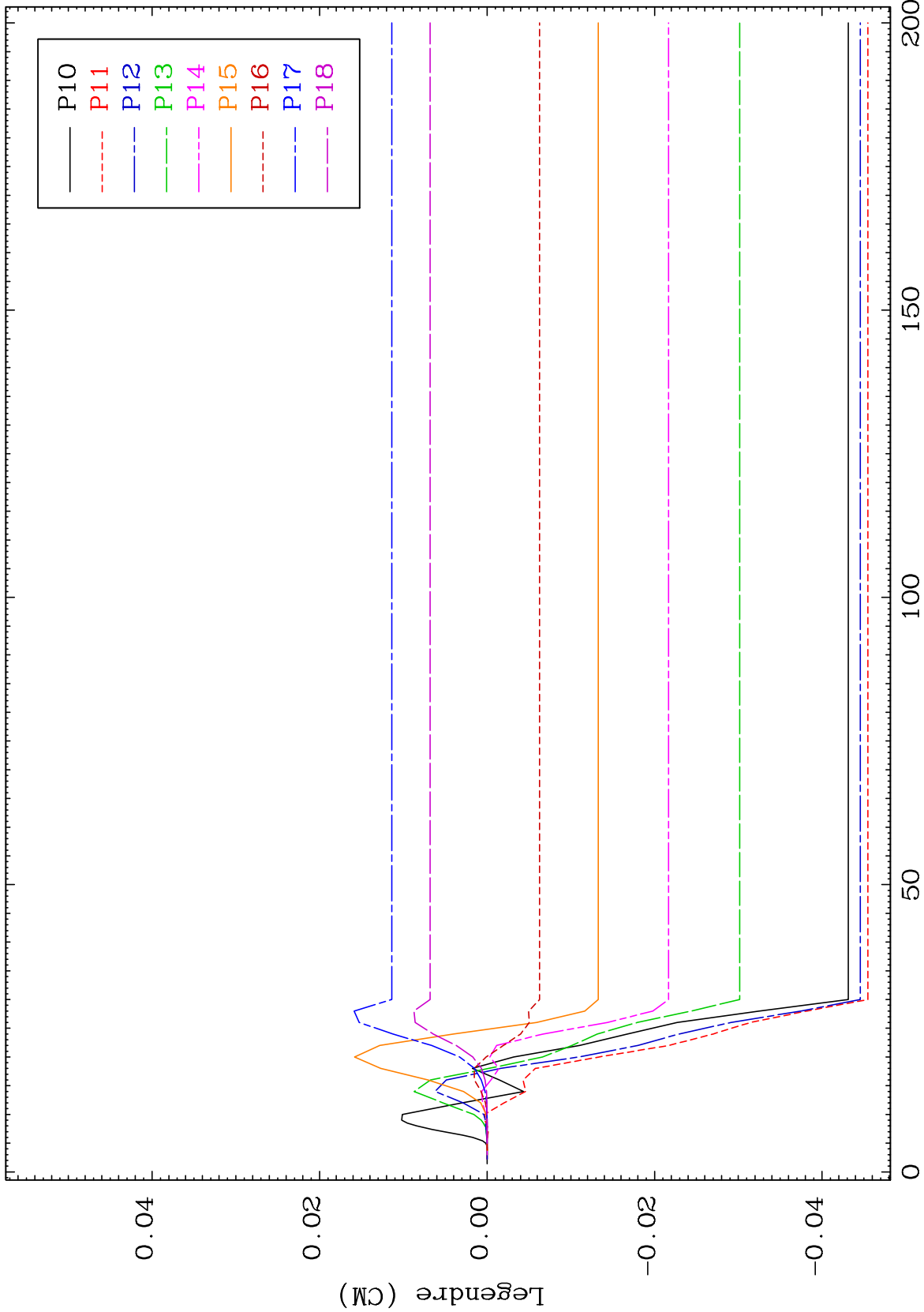


26

MAT 6389

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

64-Gd-140



27

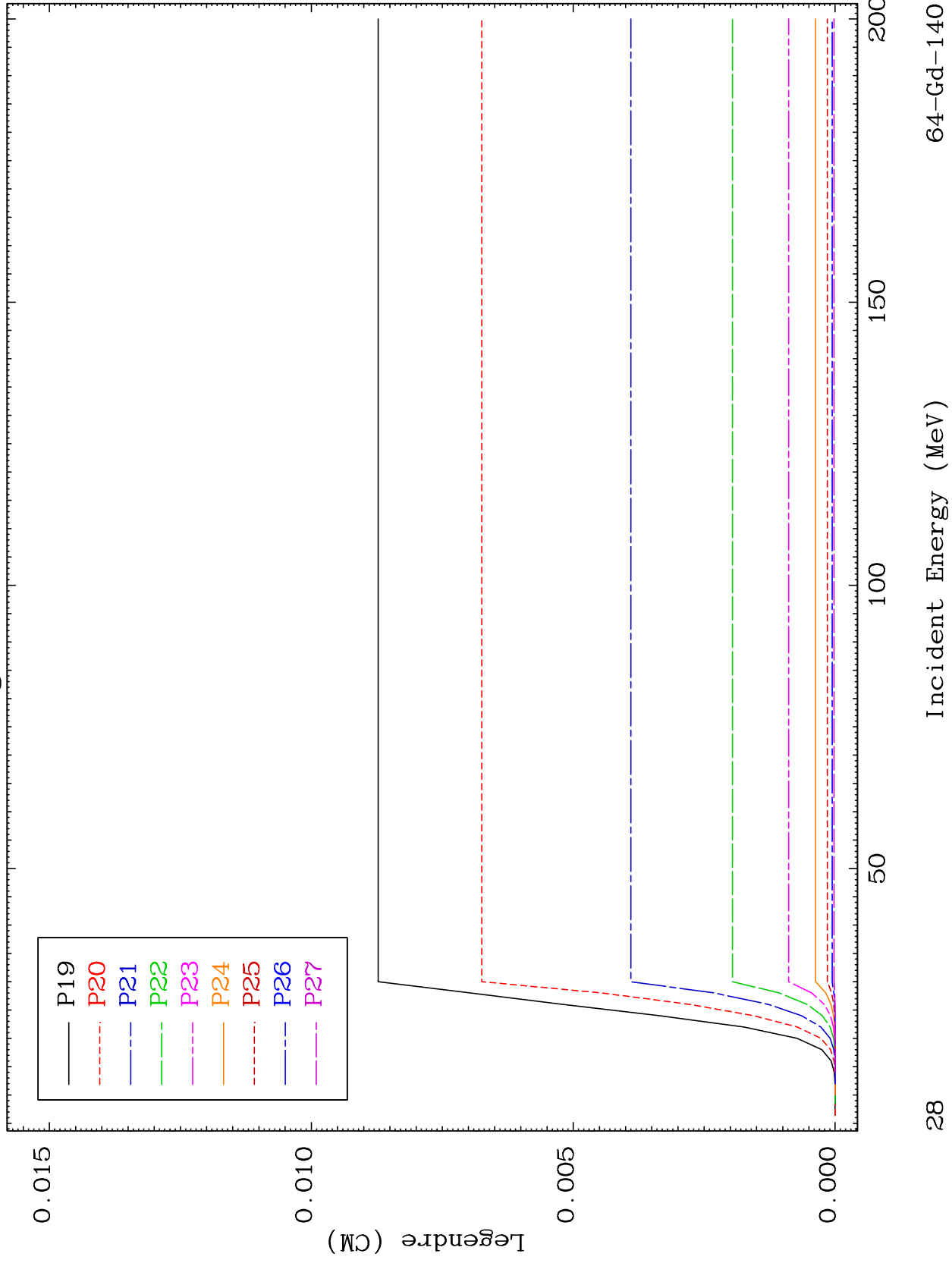
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

64-Gd-140



28

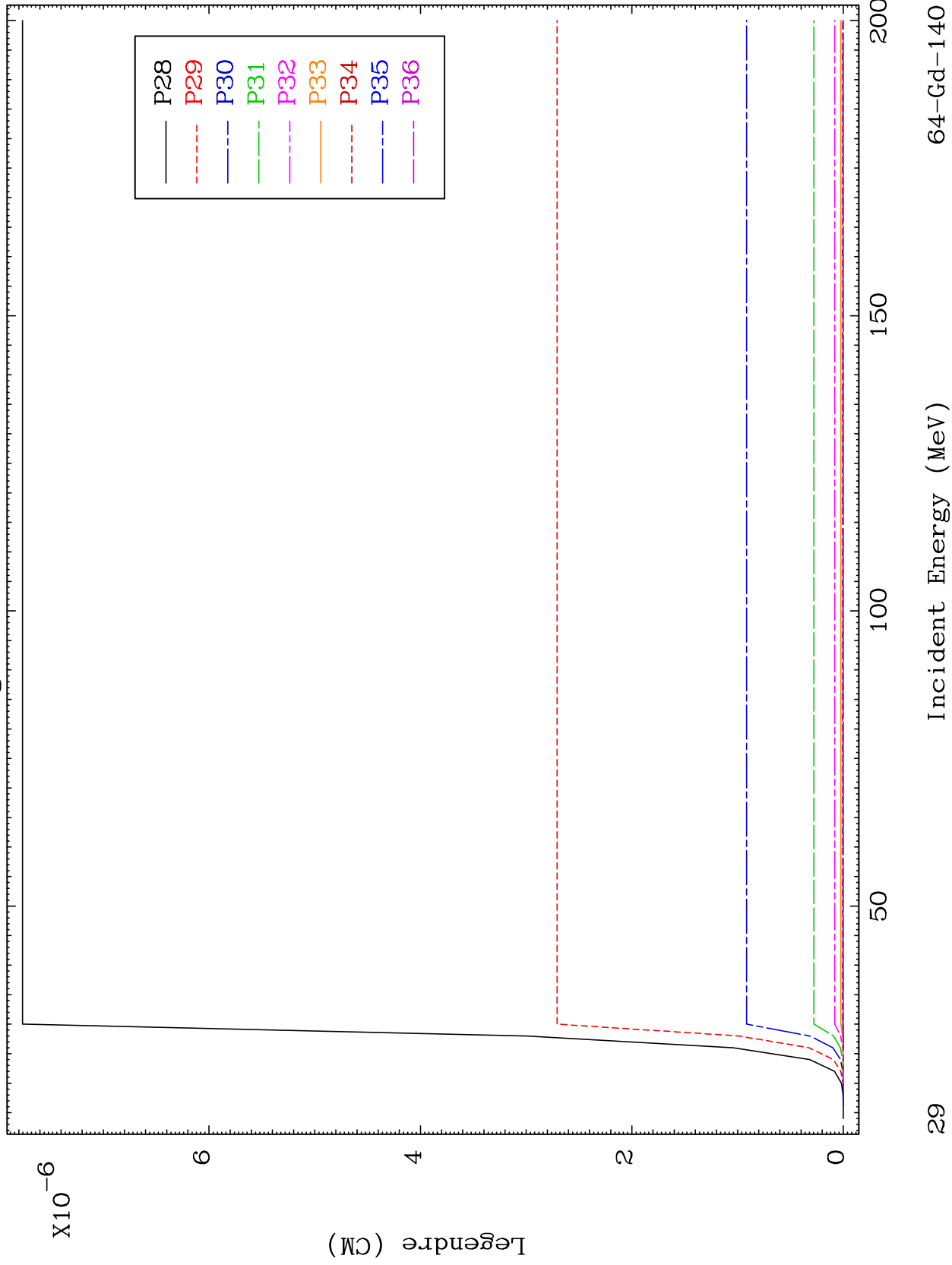
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

64-Gd-140



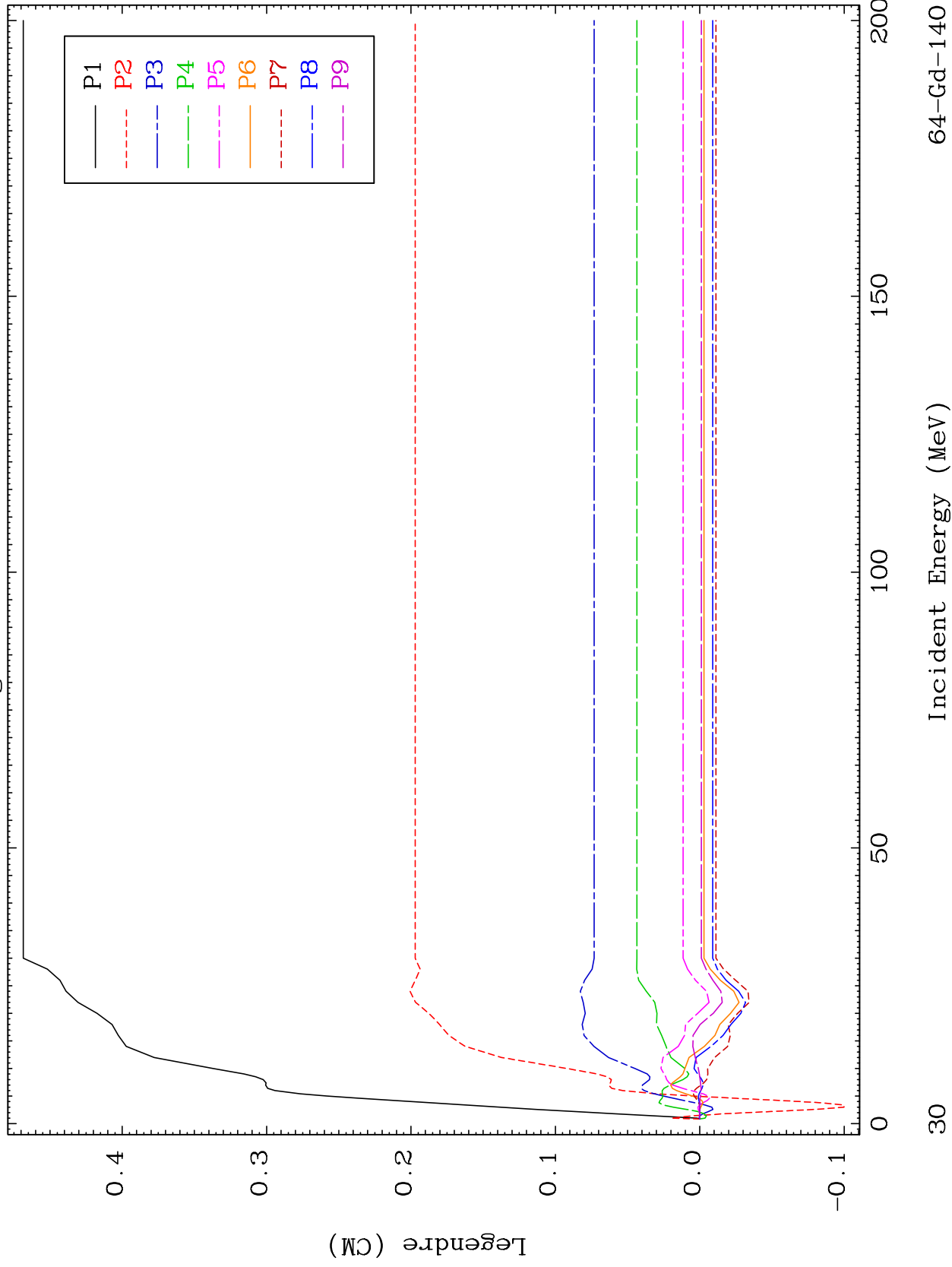
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64-Gd-140

MAT 6389

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

64-Gd-140



64-Gd-140

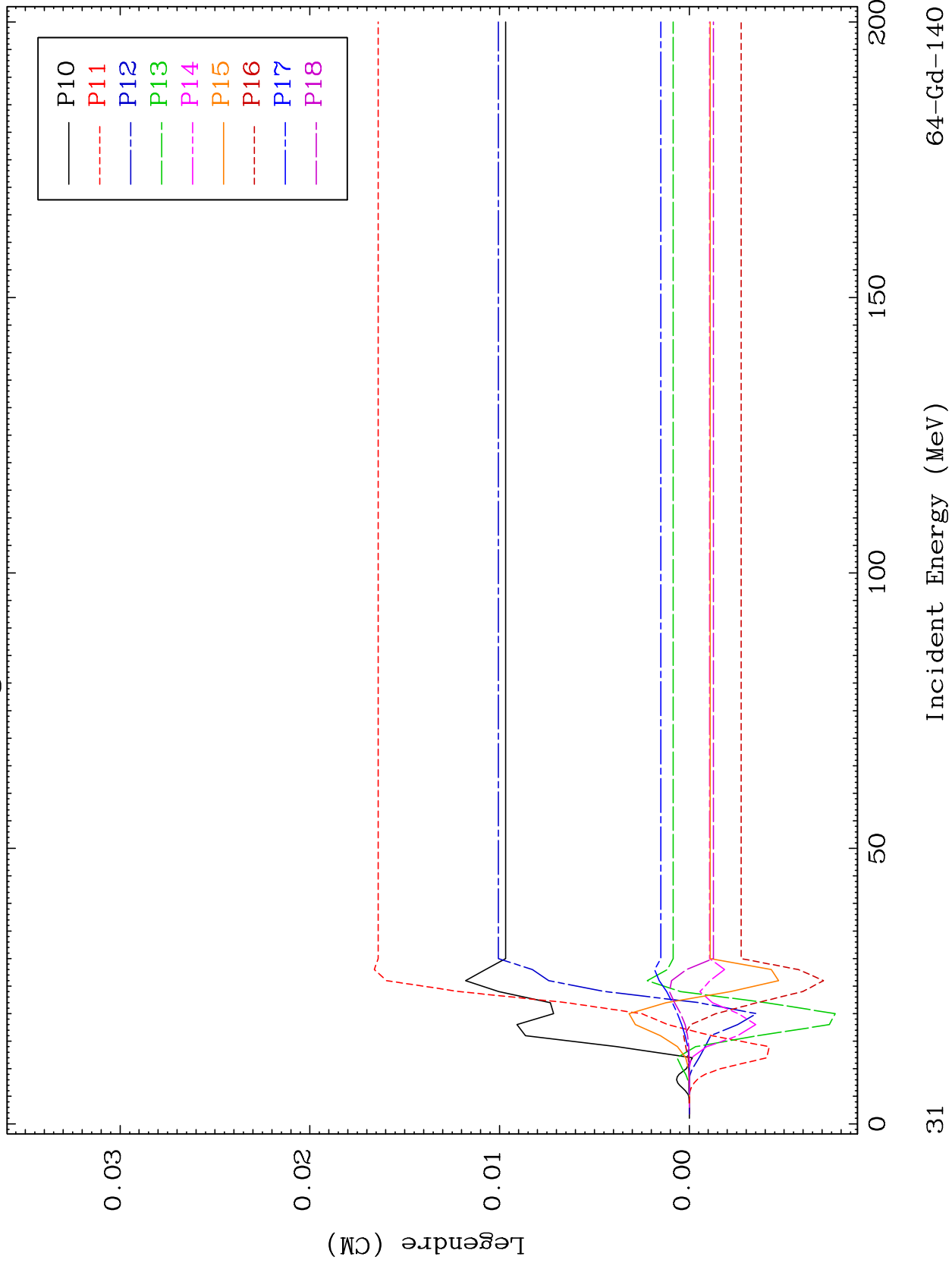
Incident Energy (MeV)

30

MAT 6389

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

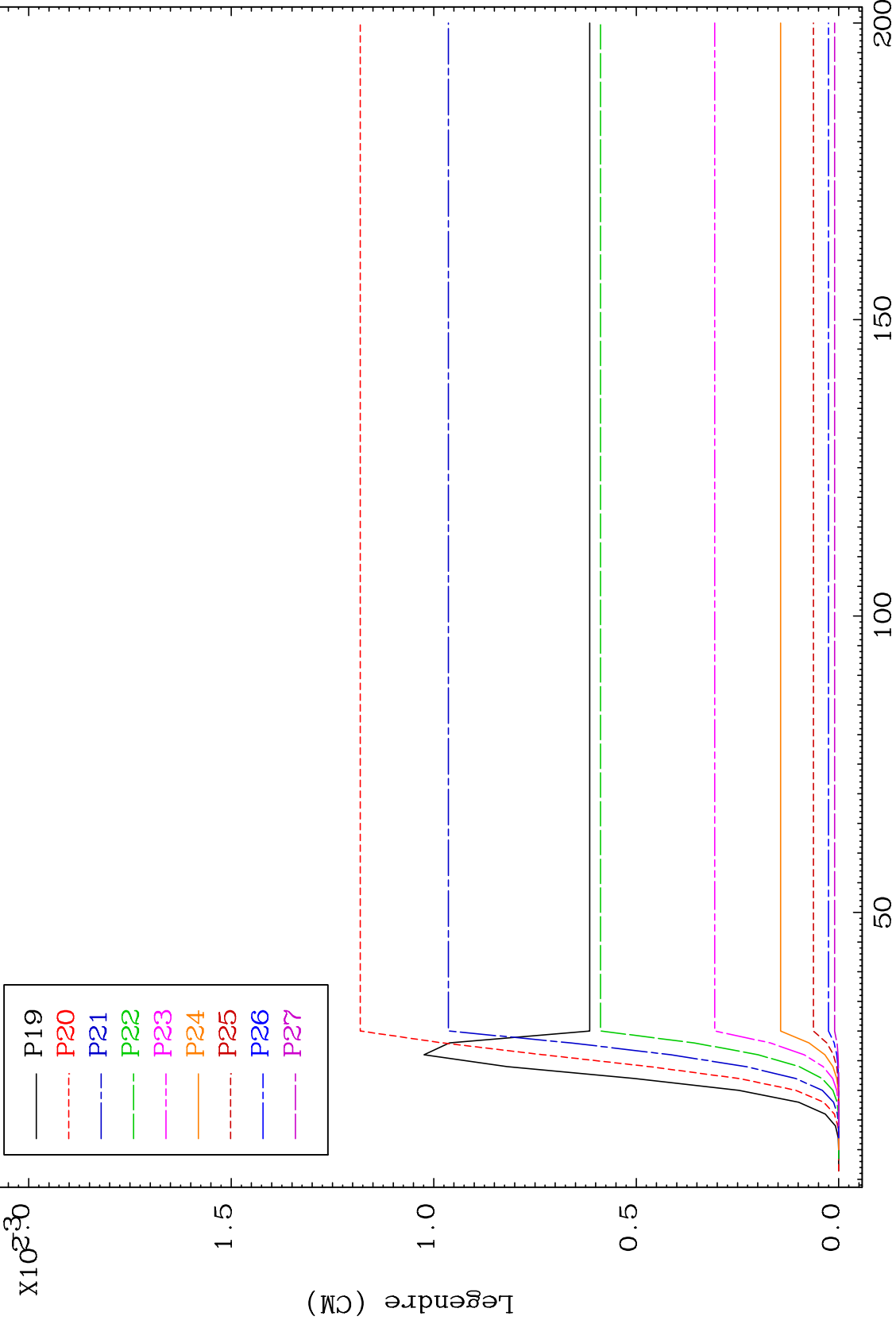
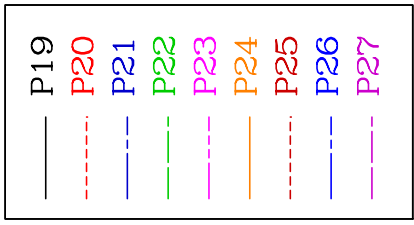
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MAT 6389

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

64-Gd-140



32

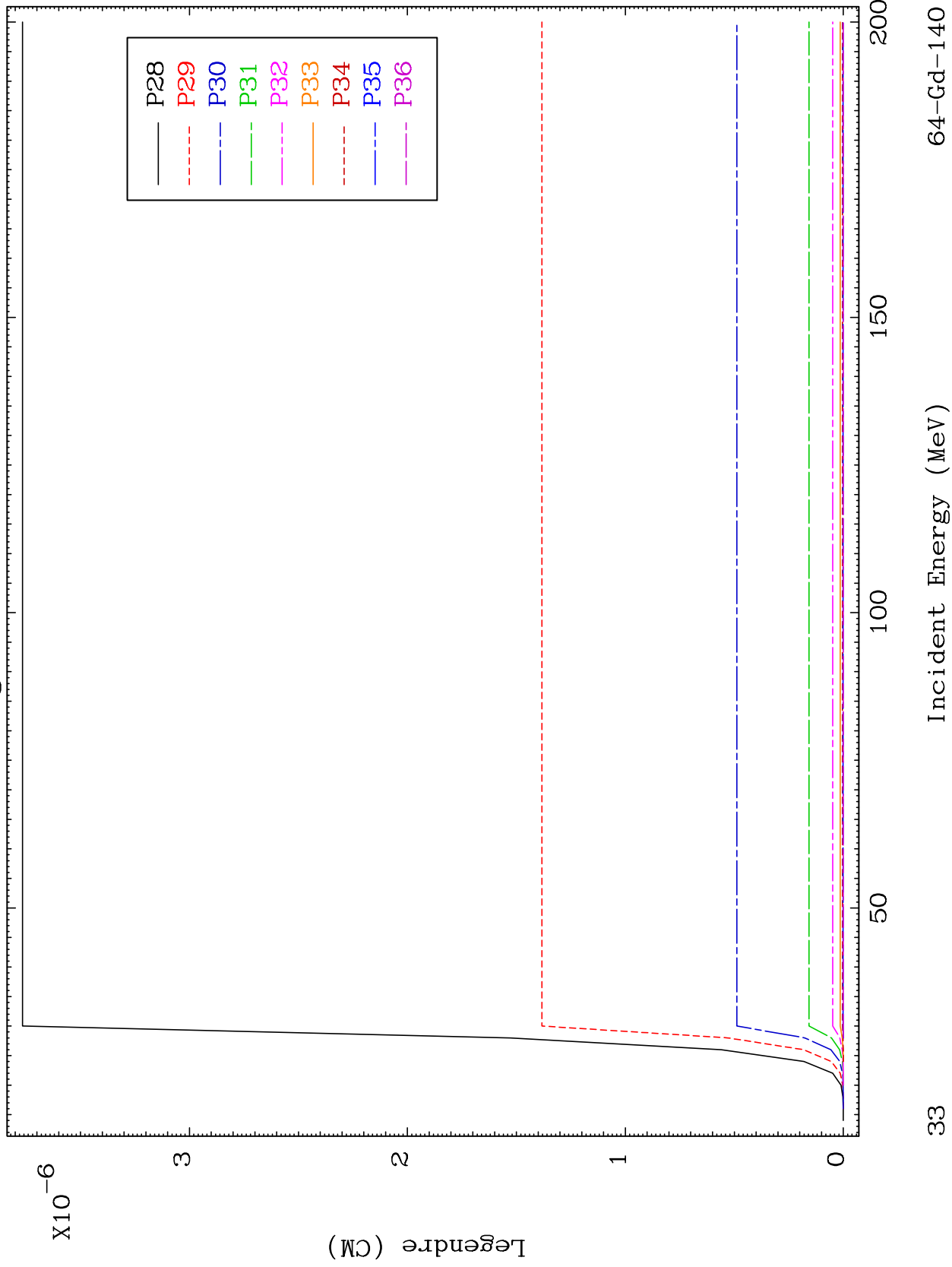
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

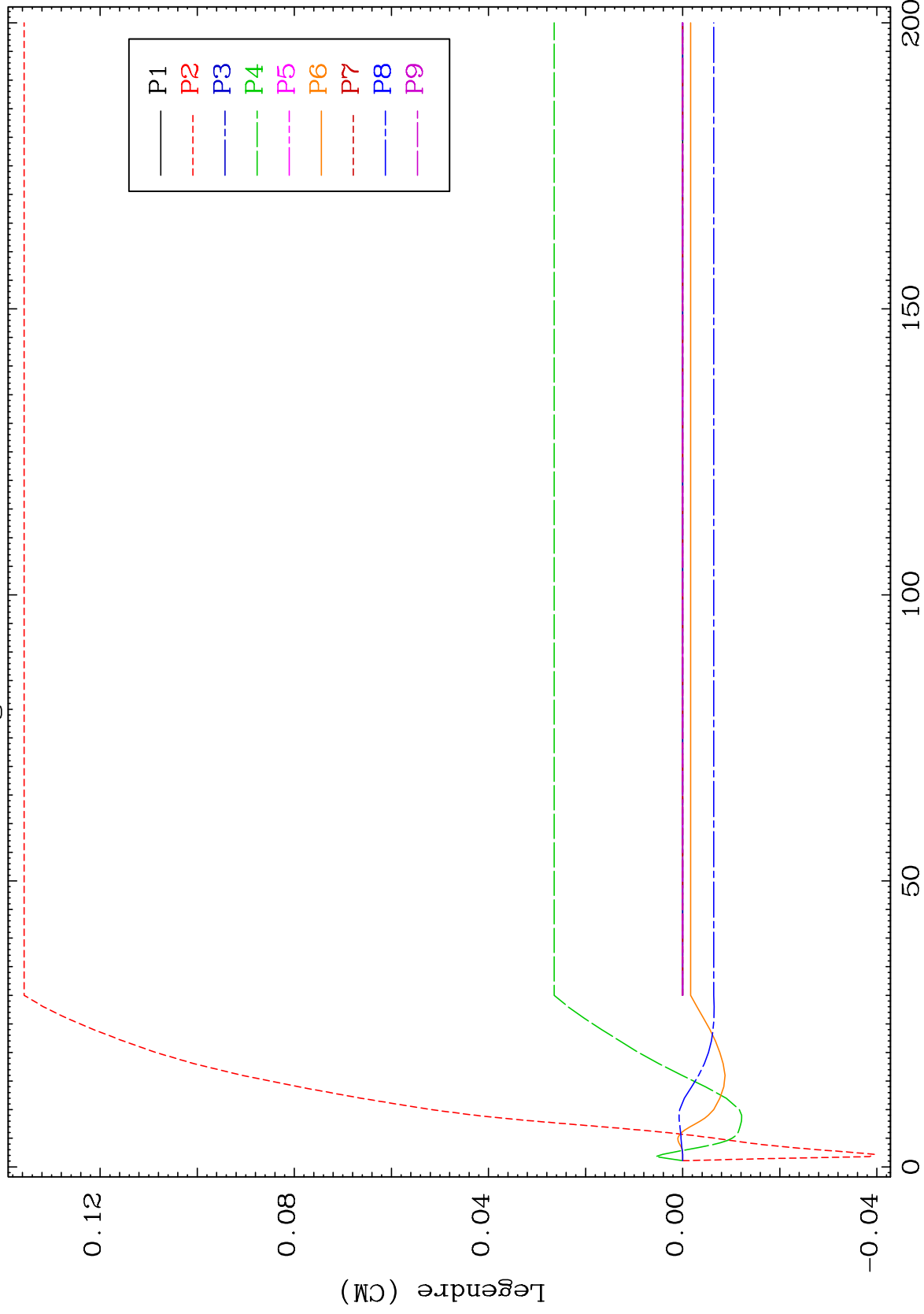
64-Gd-140



MAT 6389

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

64-Gd-140



34

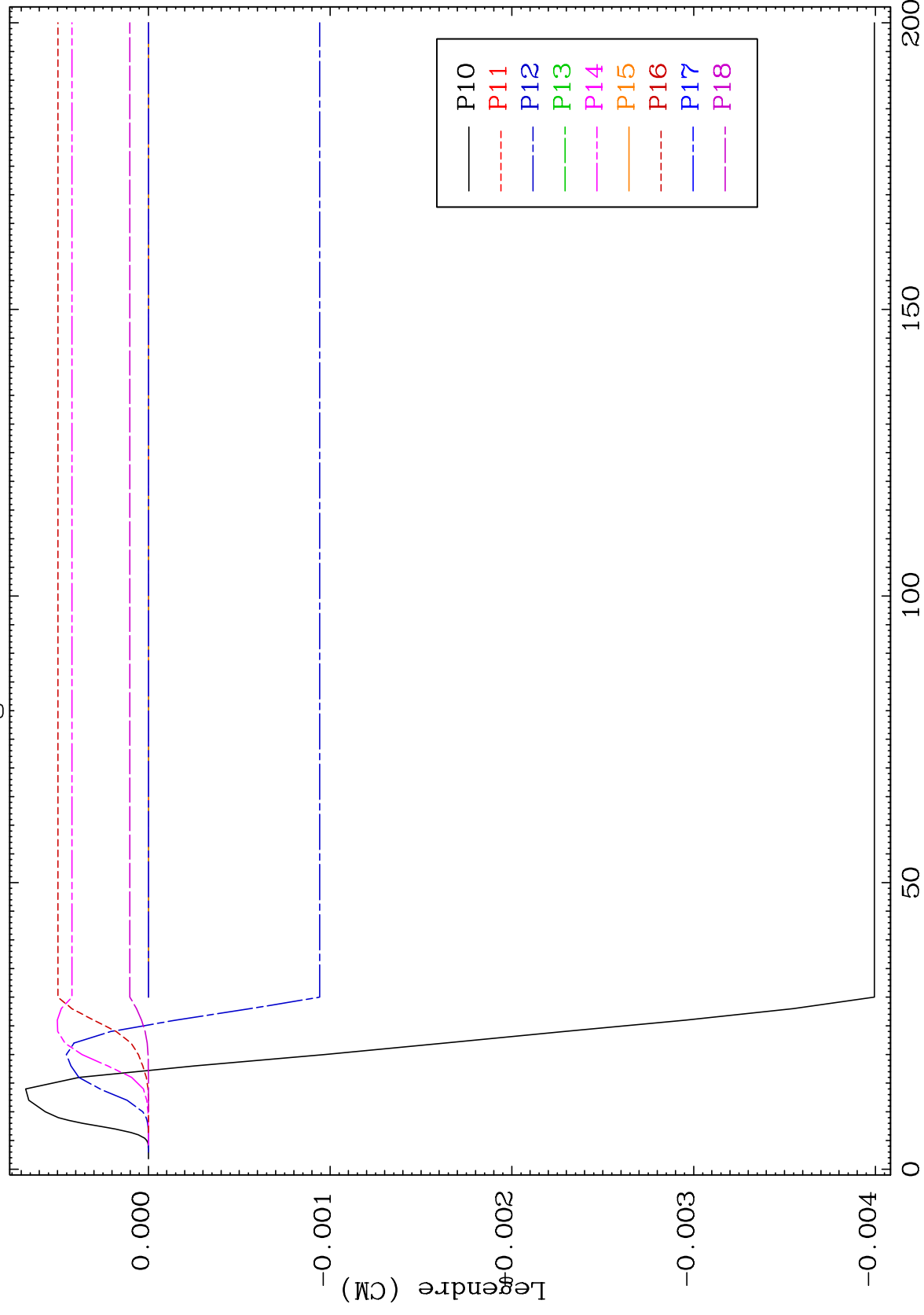
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

64-Gd-140



35

Incident Energy (MeV)

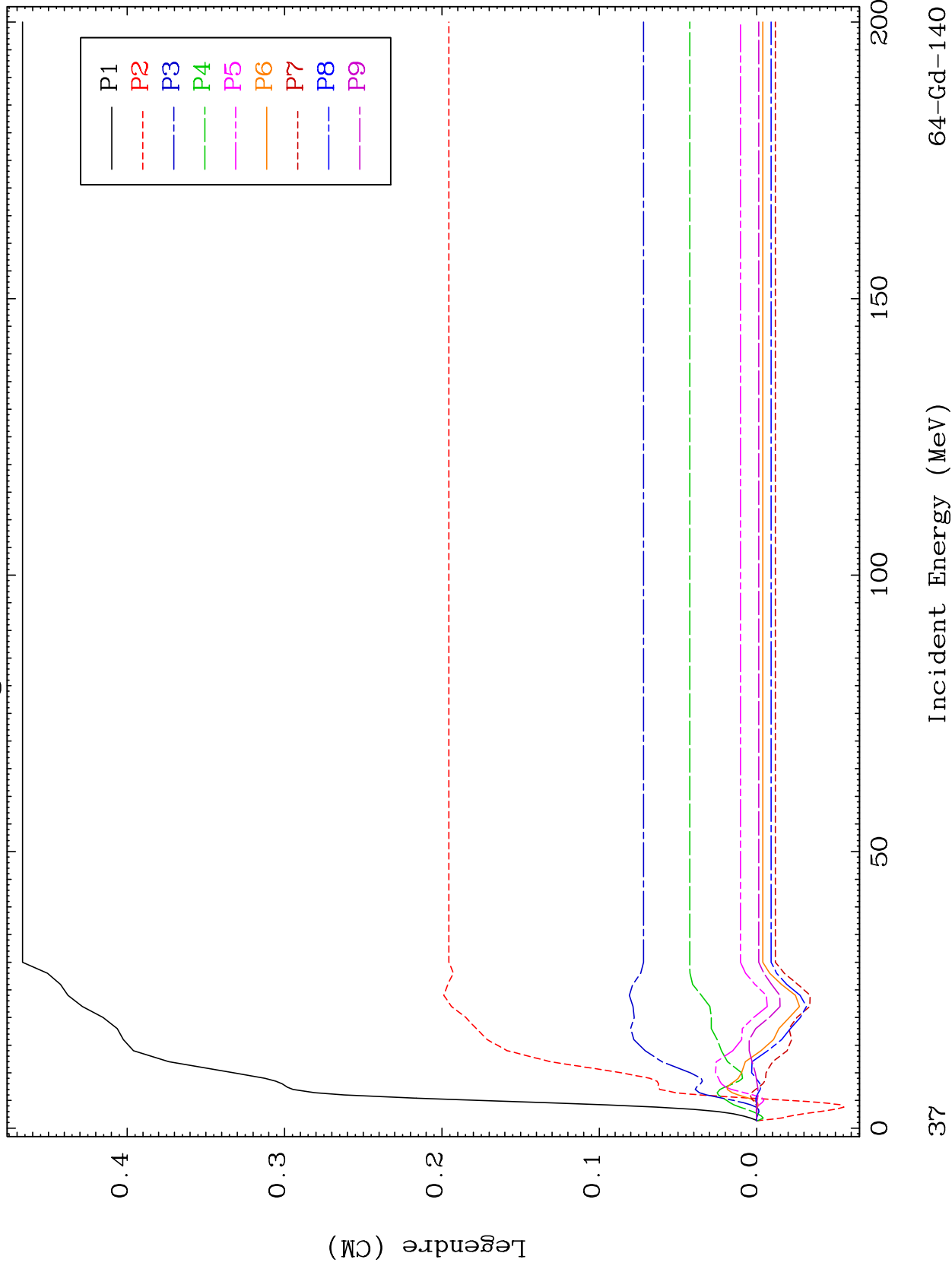
64-Gd-140



MAT 6389

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

64-Gd-140



64-Gd-140

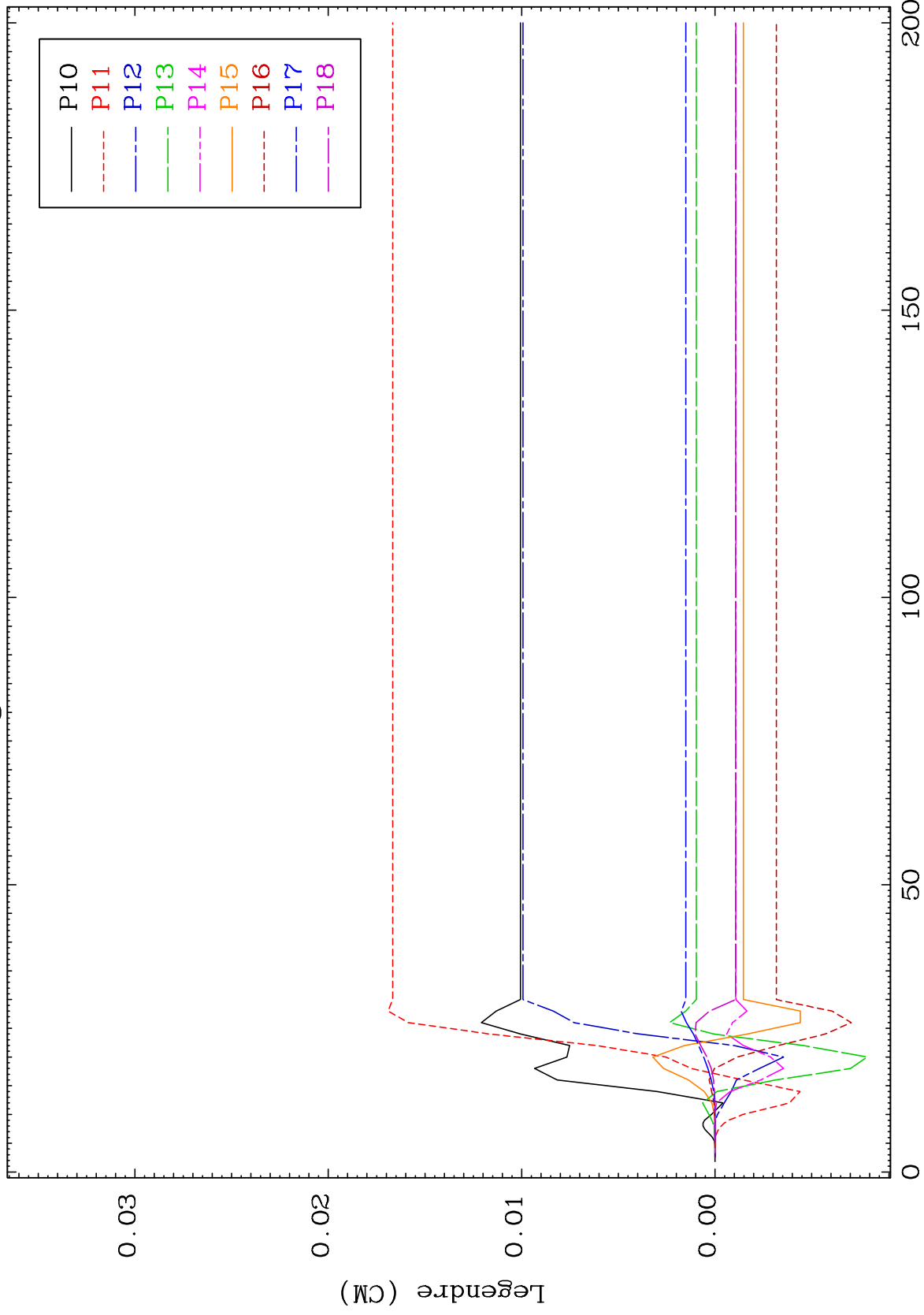
Incident Energy (MeV)

37

MAT 6389

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

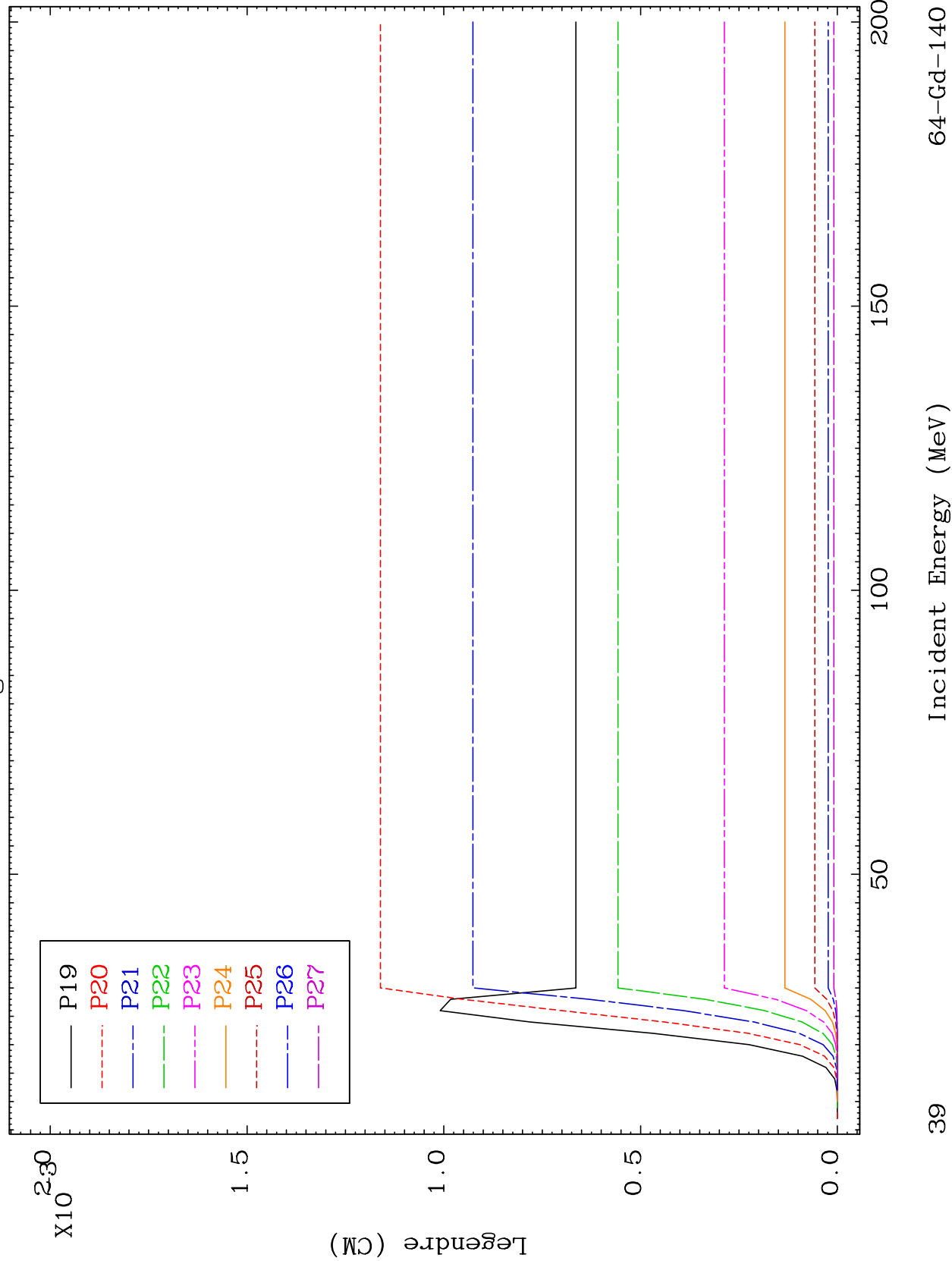
64-Gd-140



38

Incident Energy (MeV)

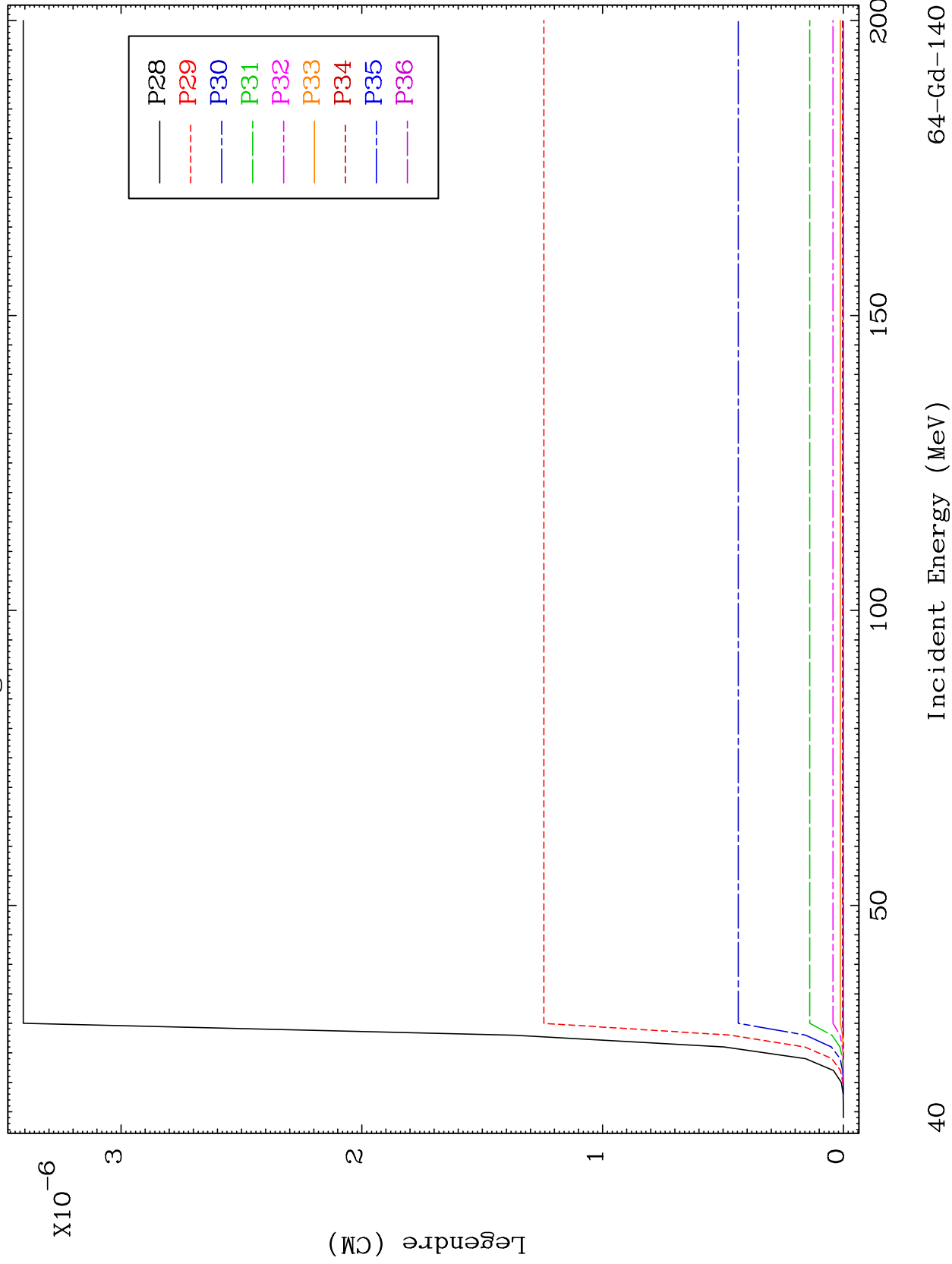
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MAT 6389

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

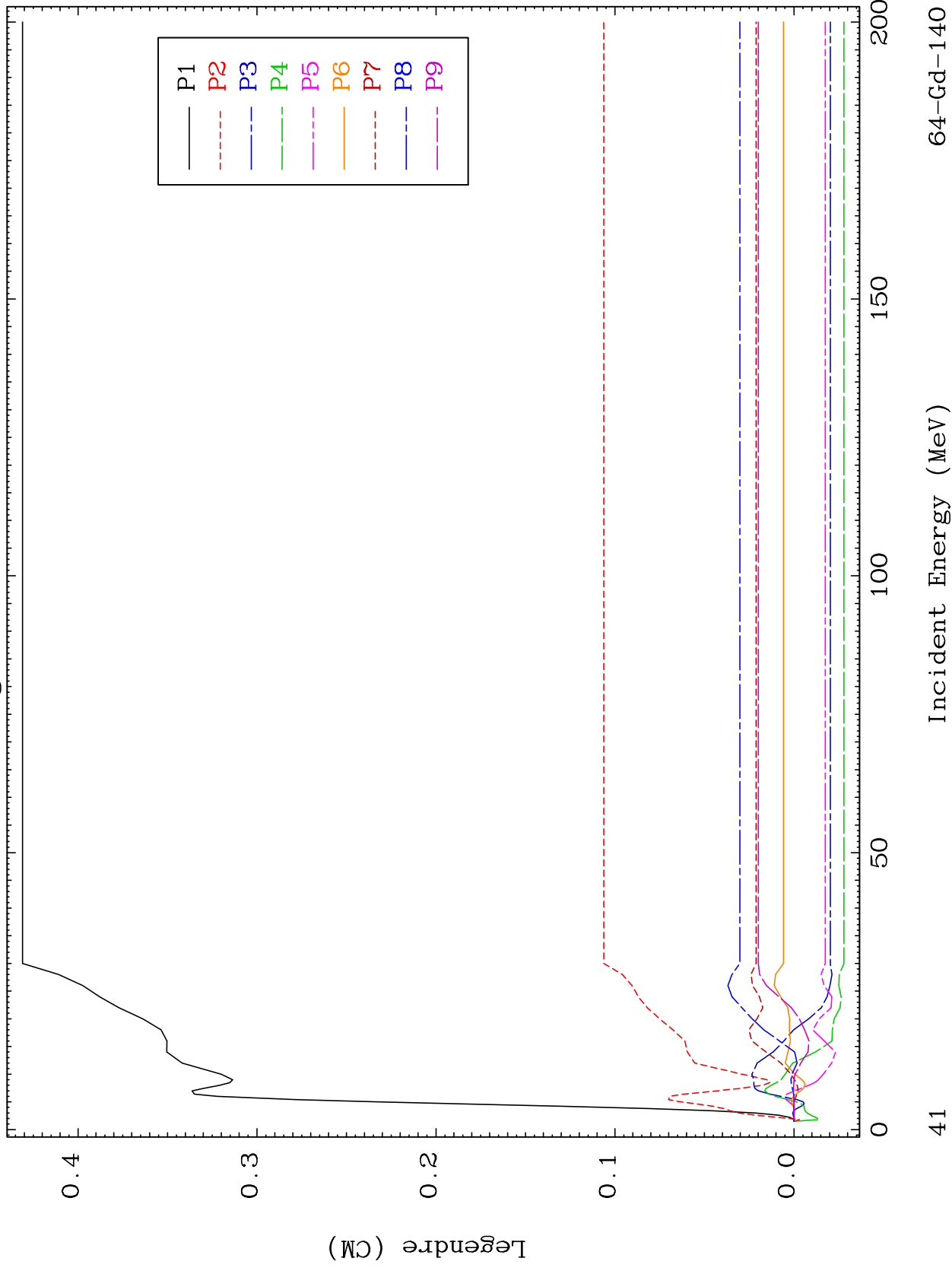
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MAT 6389

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

64-Gd-140



41

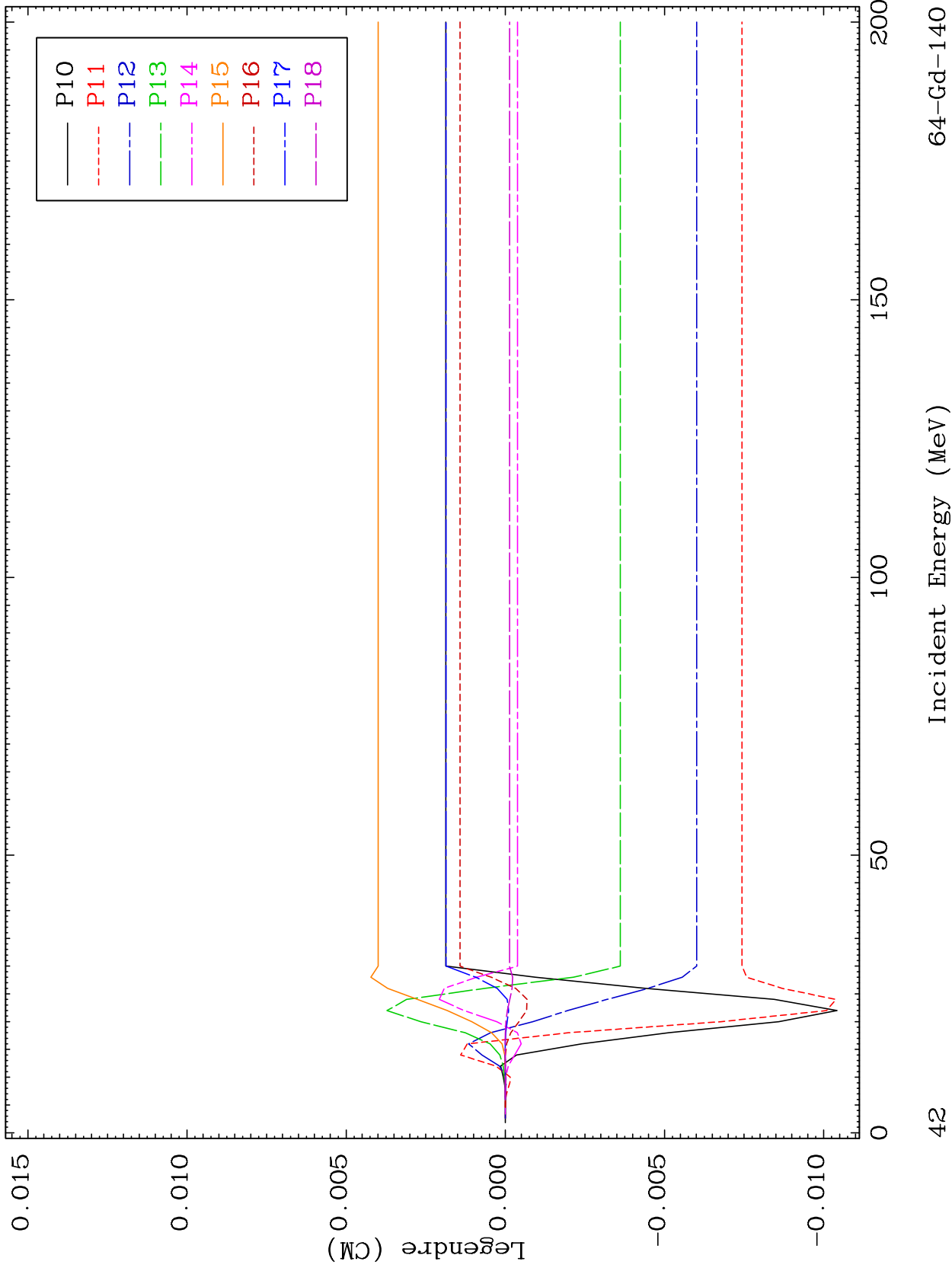
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

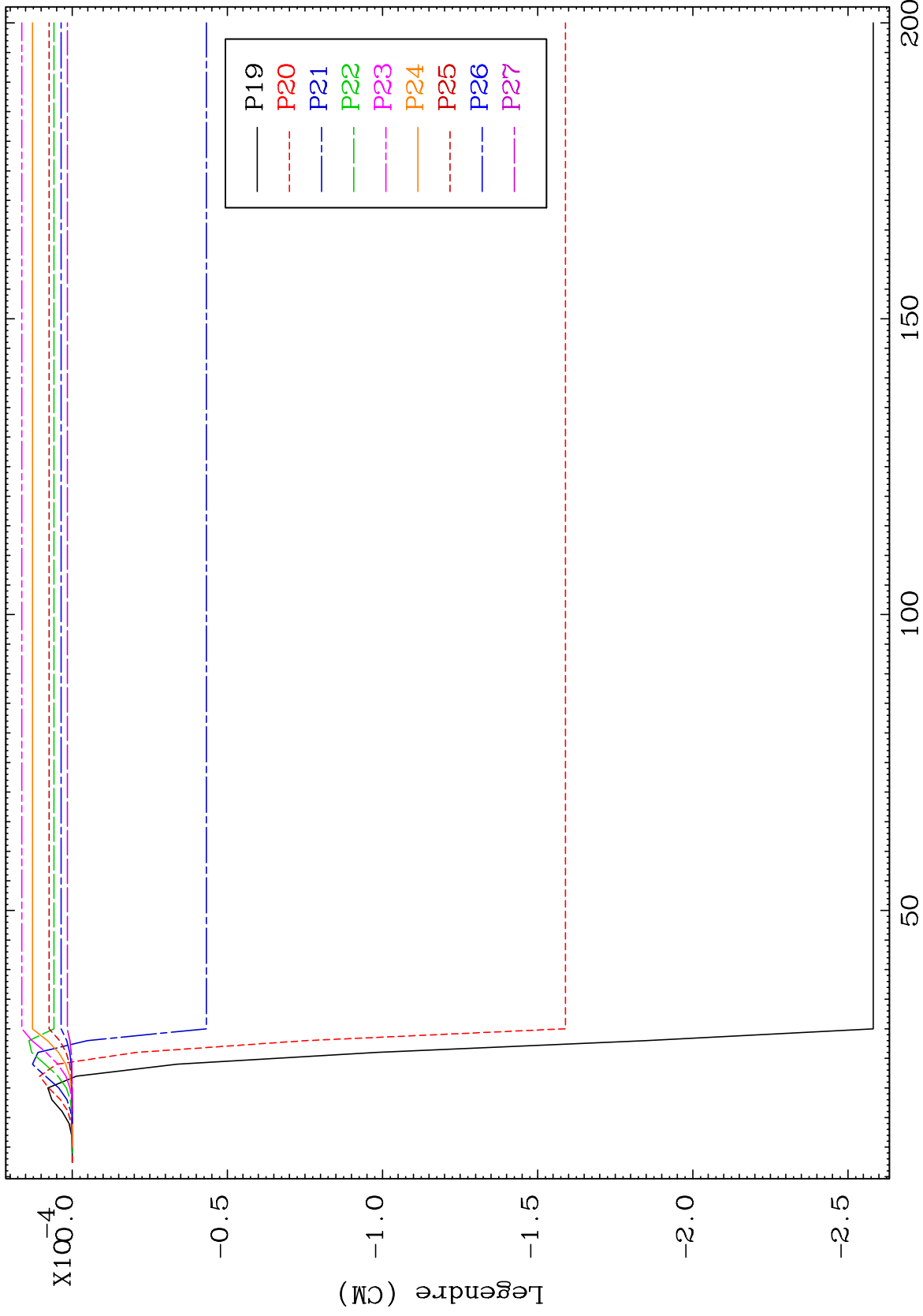
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MAT 6389

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

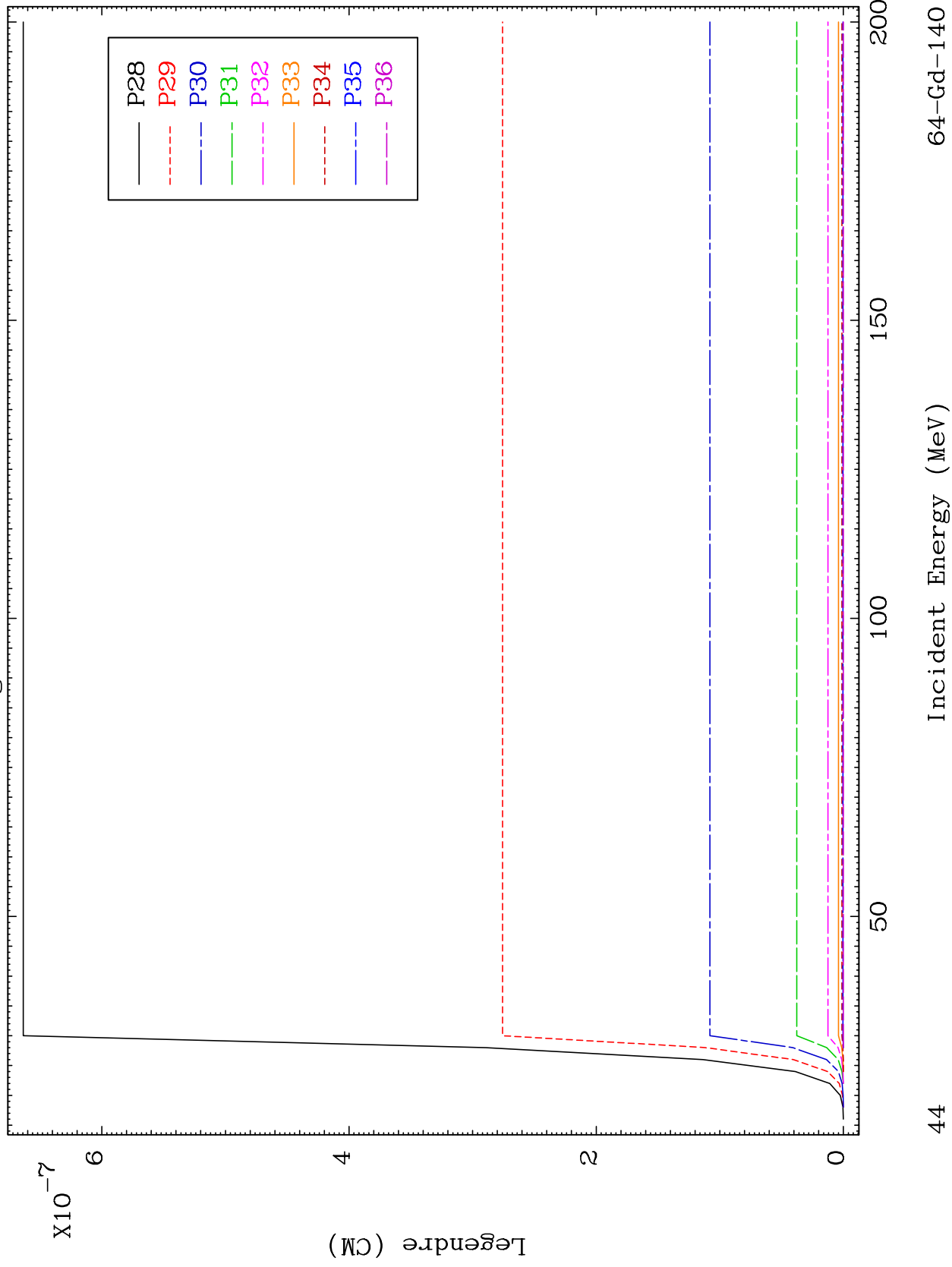
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MAT 6389

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

64-Gd-140



44

Incident Energy (MeV)

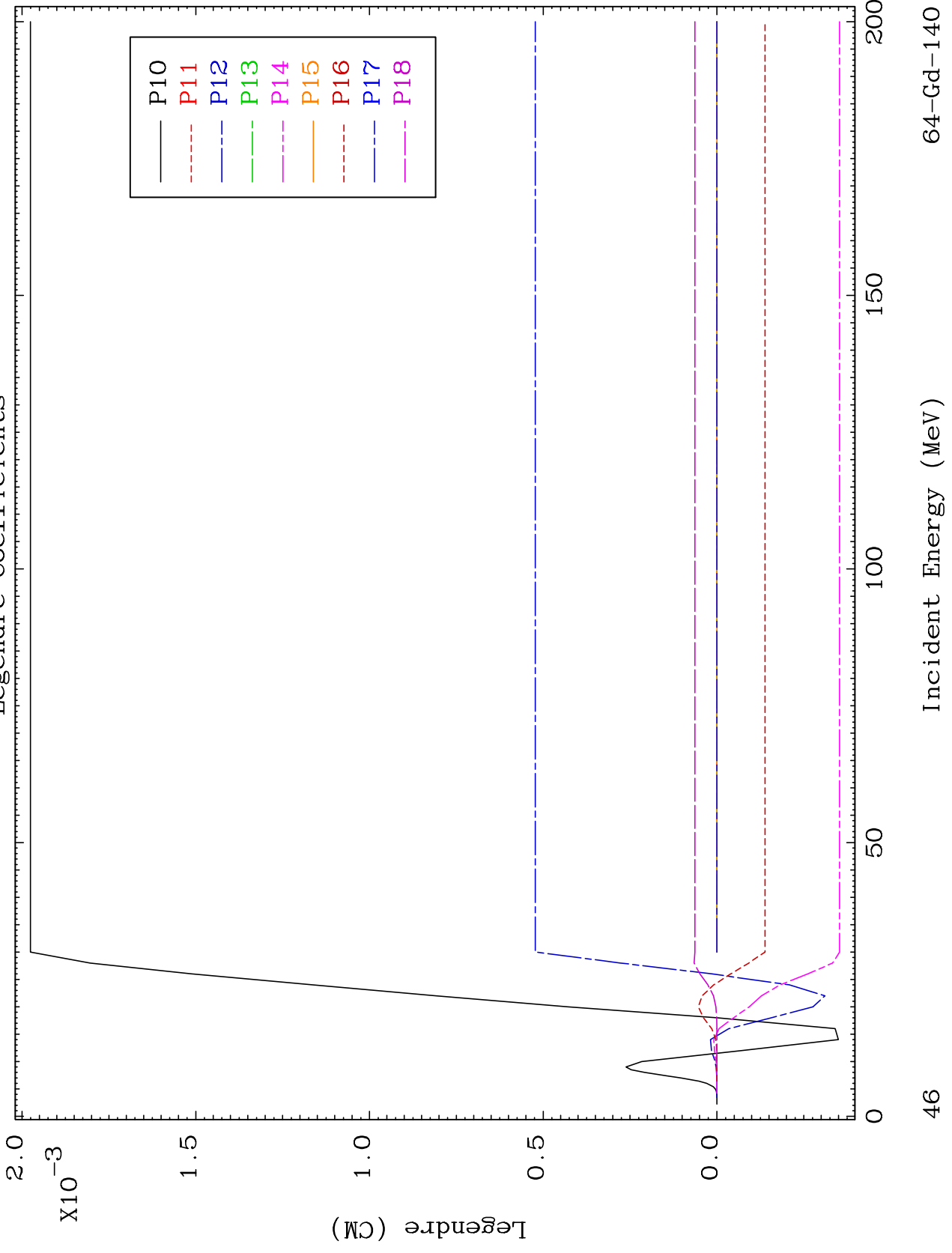
64-Gd-140



MAT 6389

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

64-Gd-140



46

Incident Energy (MeV)

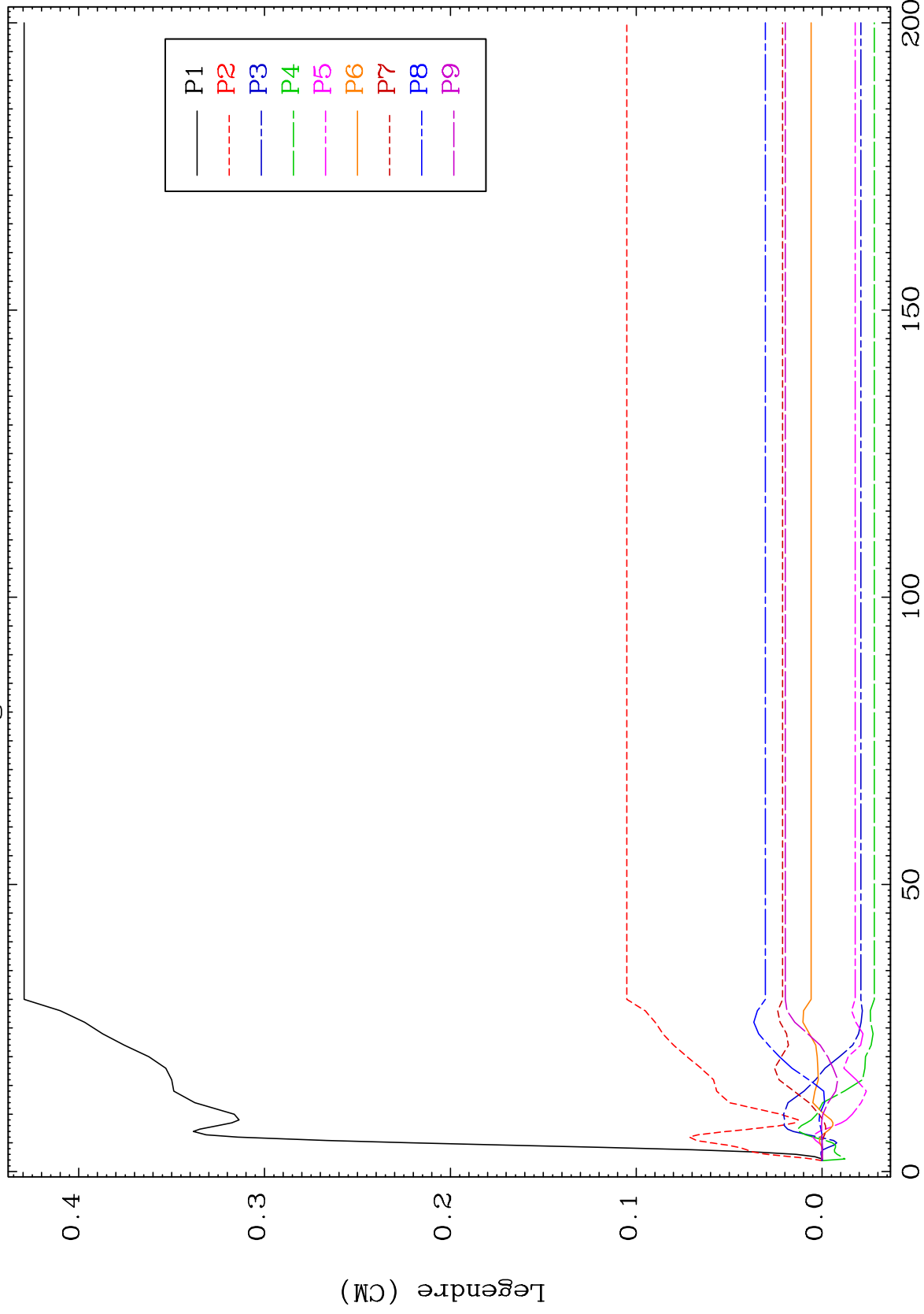
64-Gd-140



MAT 6389

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

64-Gd-140



48

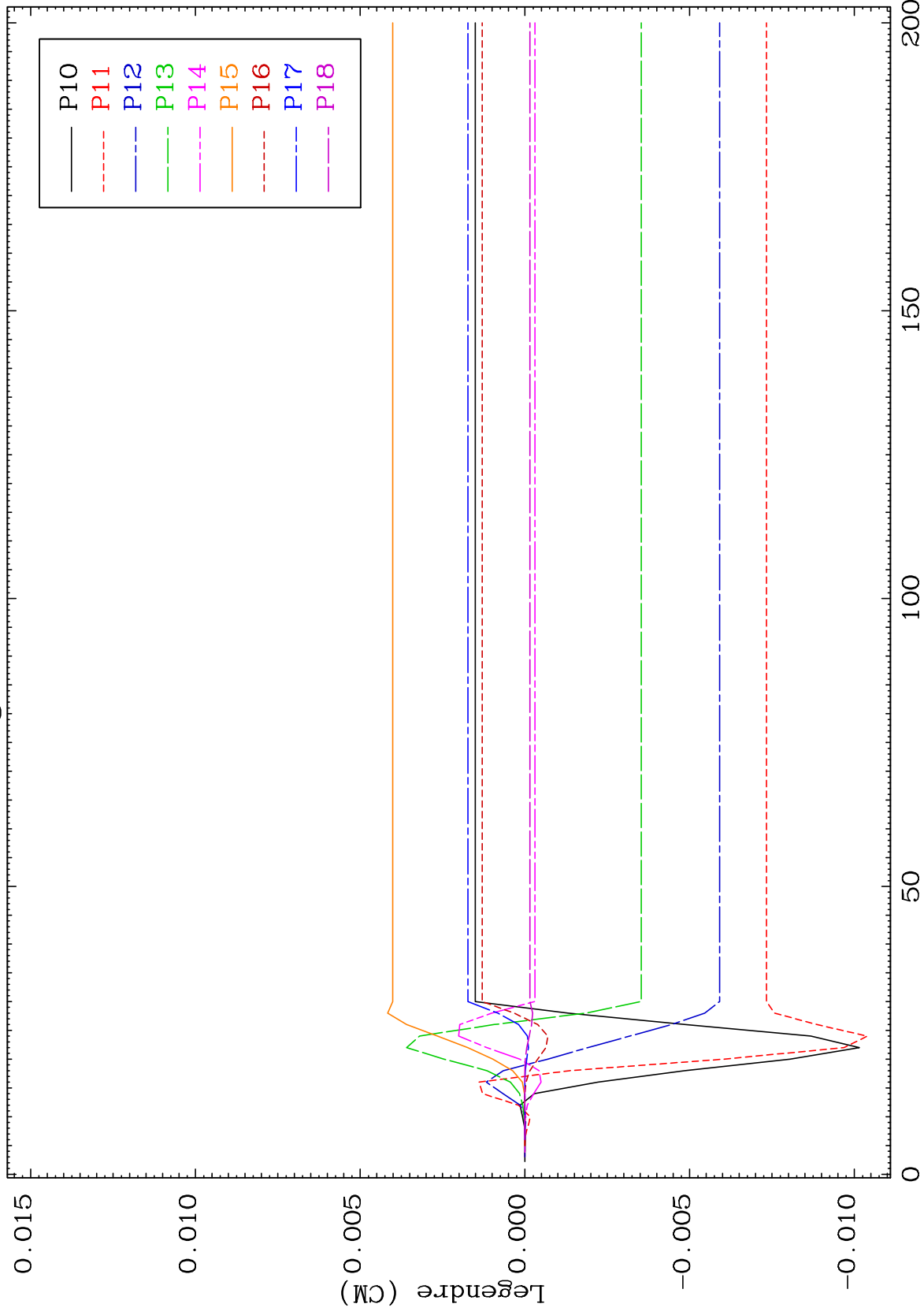
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

64-Gd-140



49

Incident Energy (MeV)

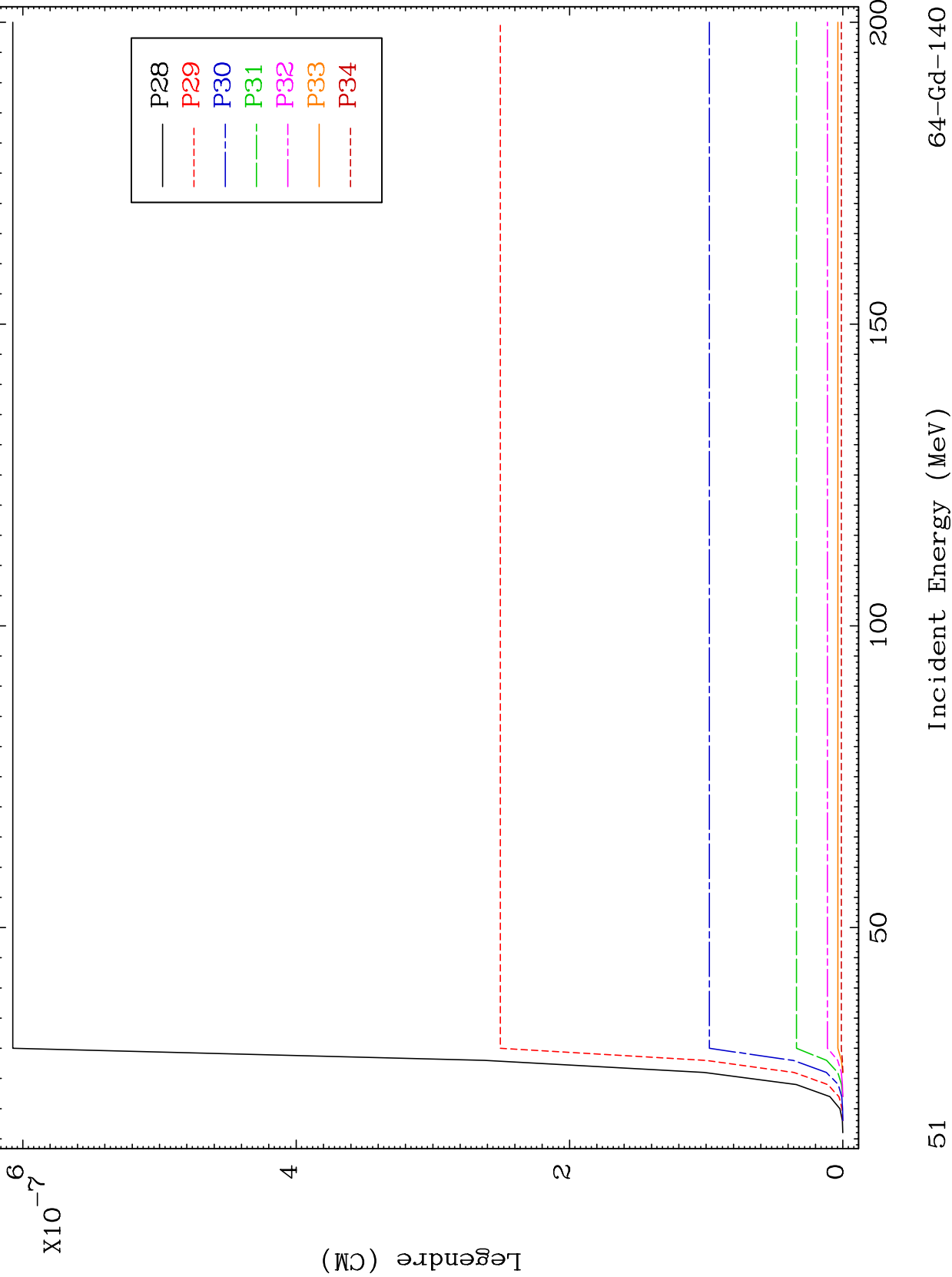
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MAT 6389

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

64-Gd-140



51

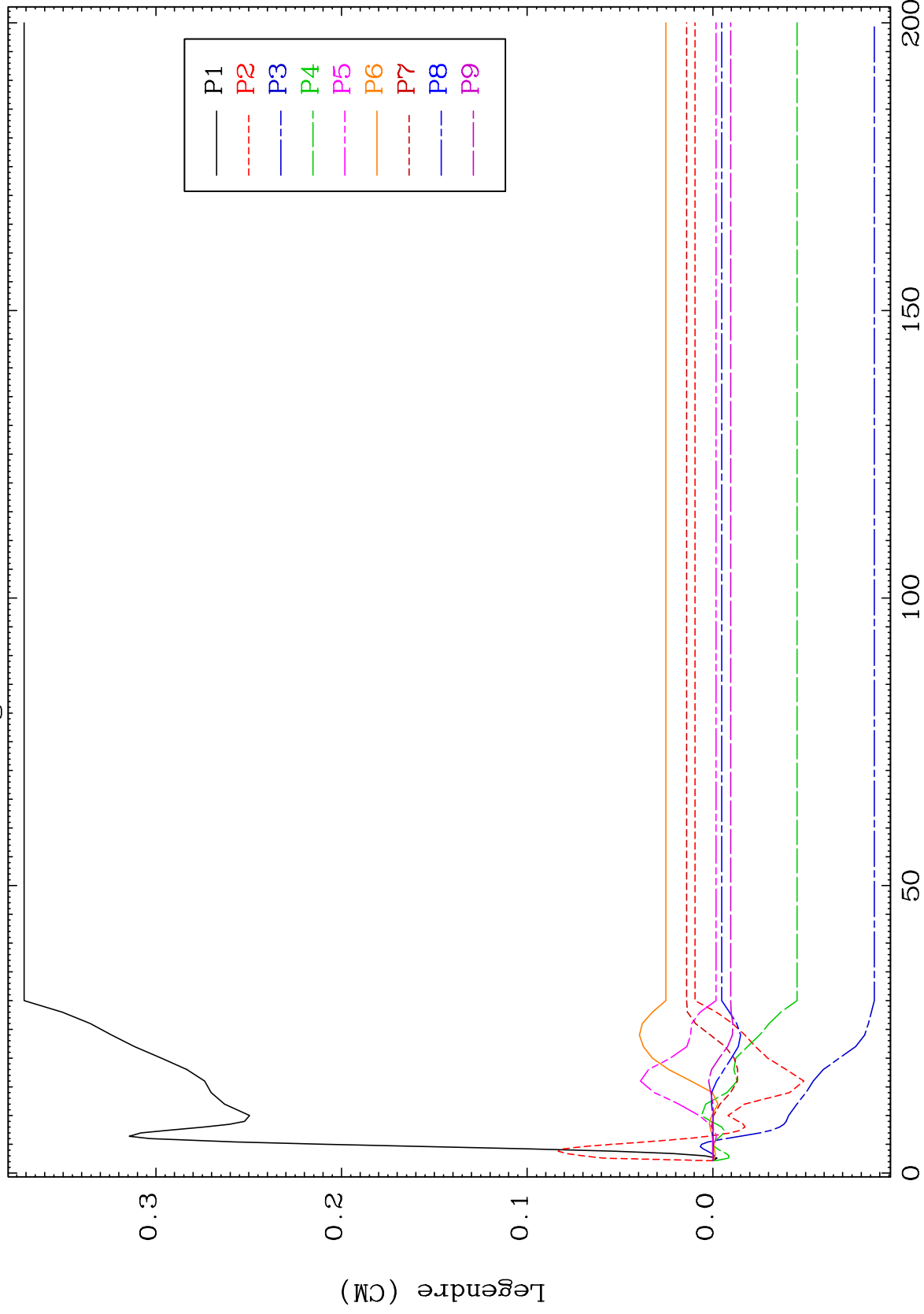
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

64-Gd-140



52

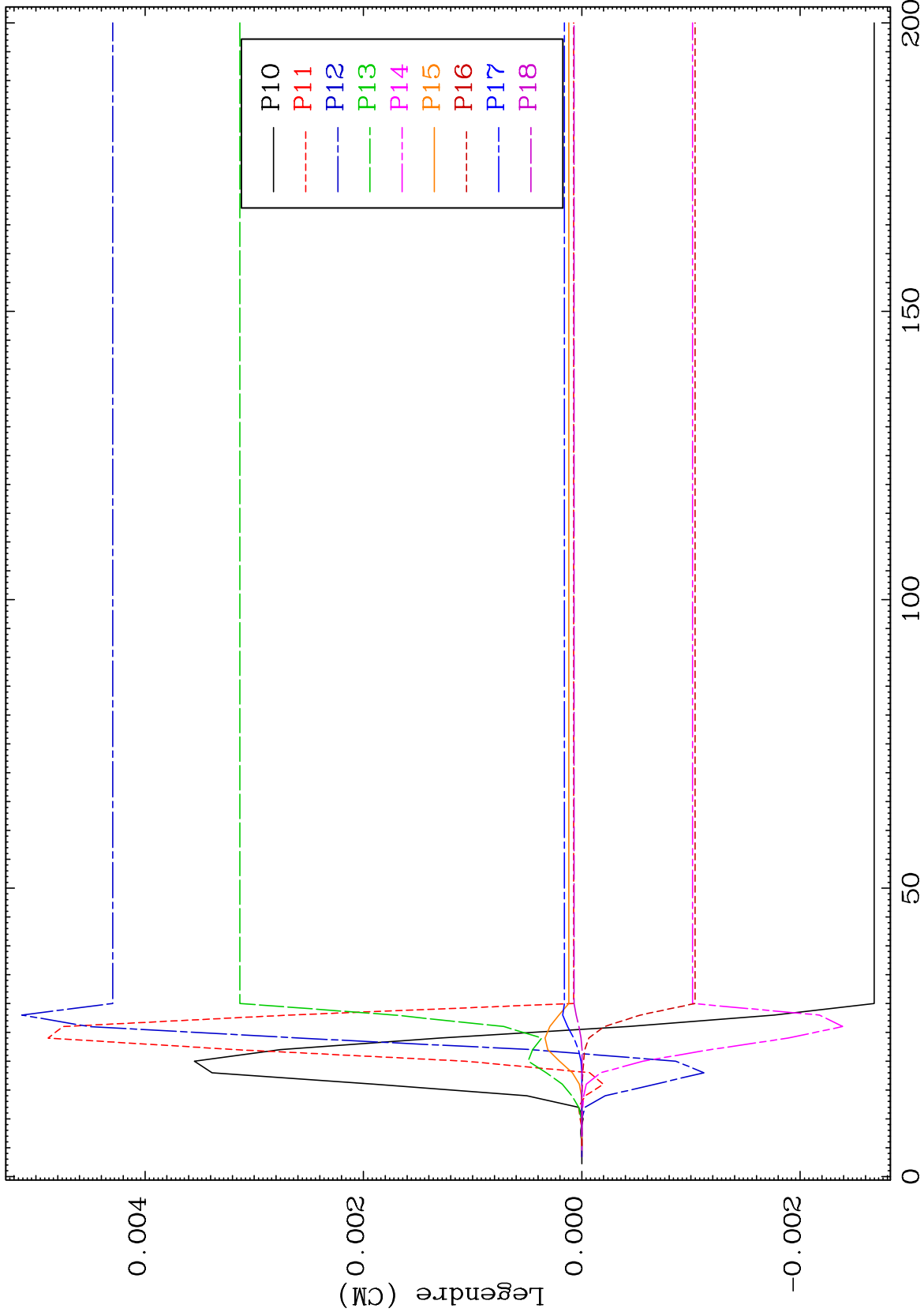
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

64-Gd-140



53

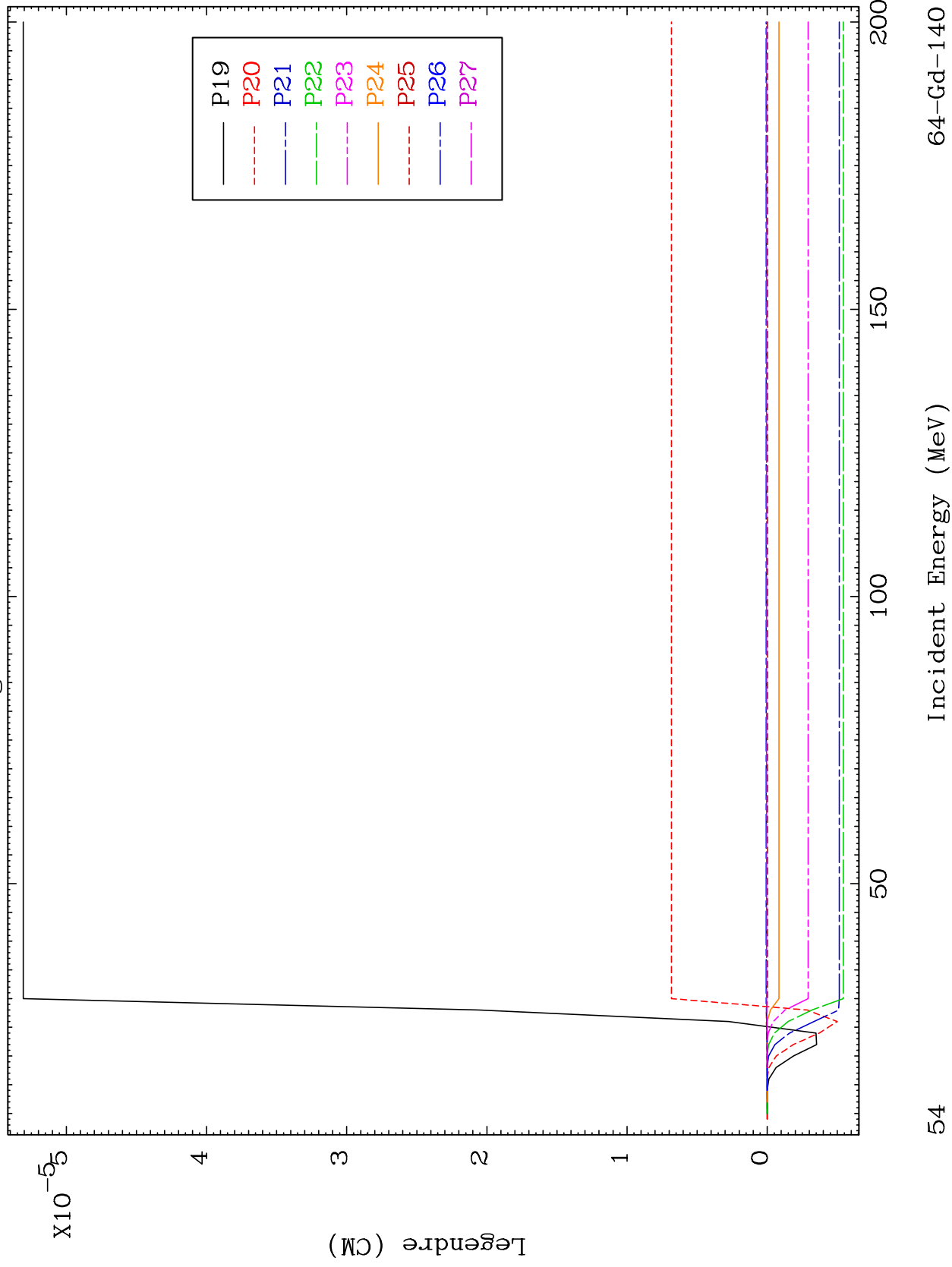
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64-Gd-140

MAT 6389

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

64-Gd-140



54

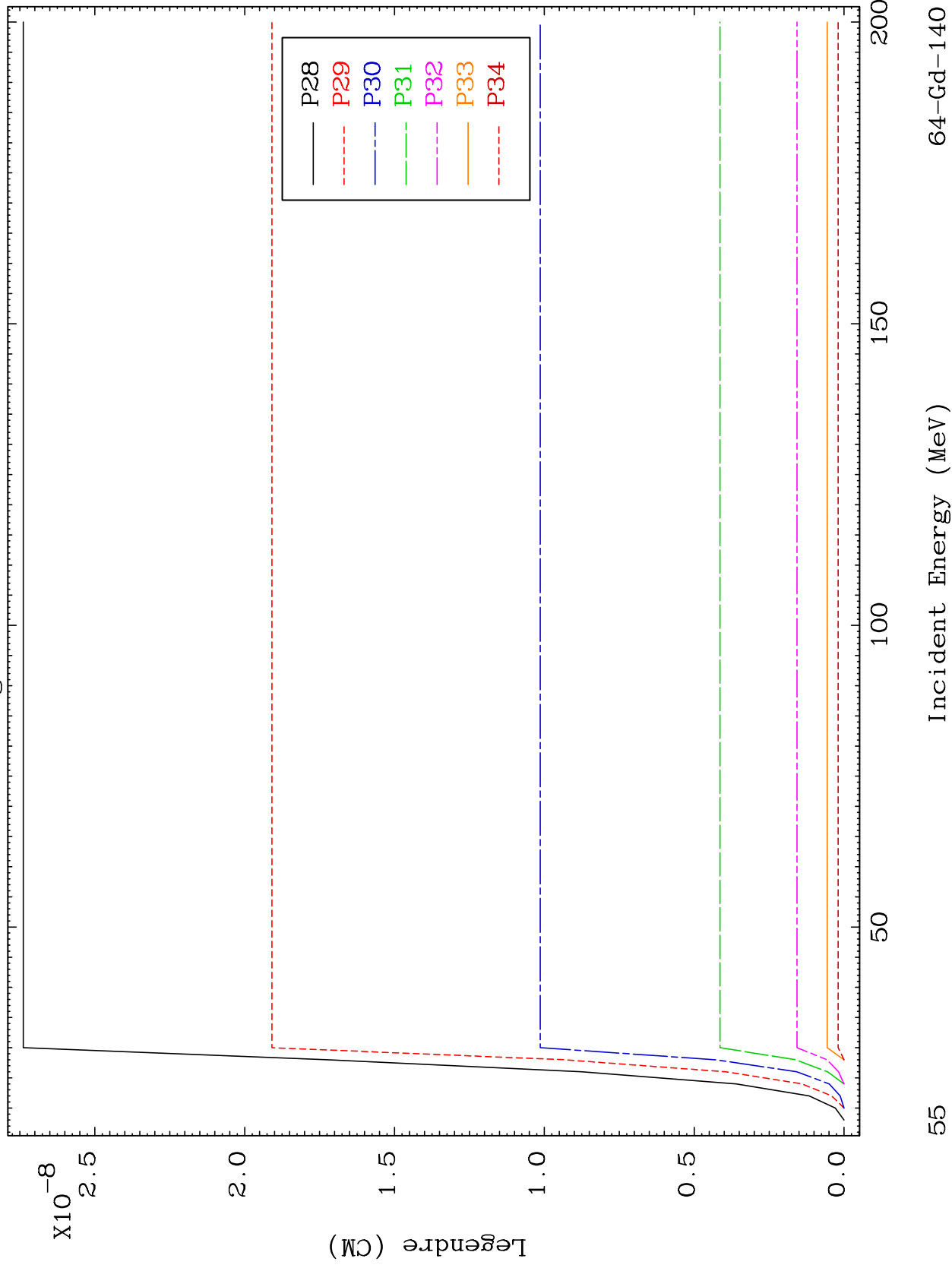
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

64-Gd-140



55

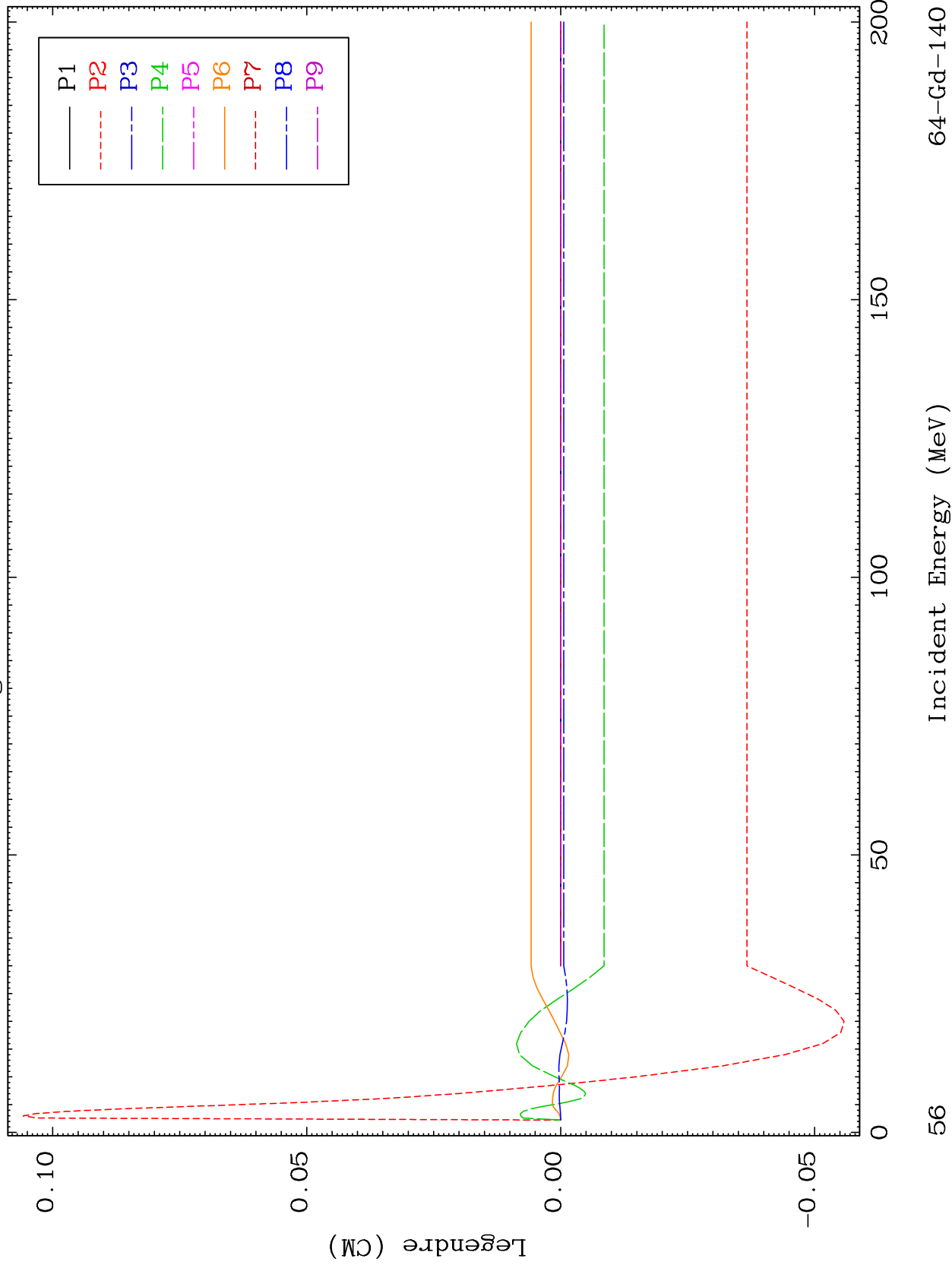
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

64-Gd-140



64-Gd-140

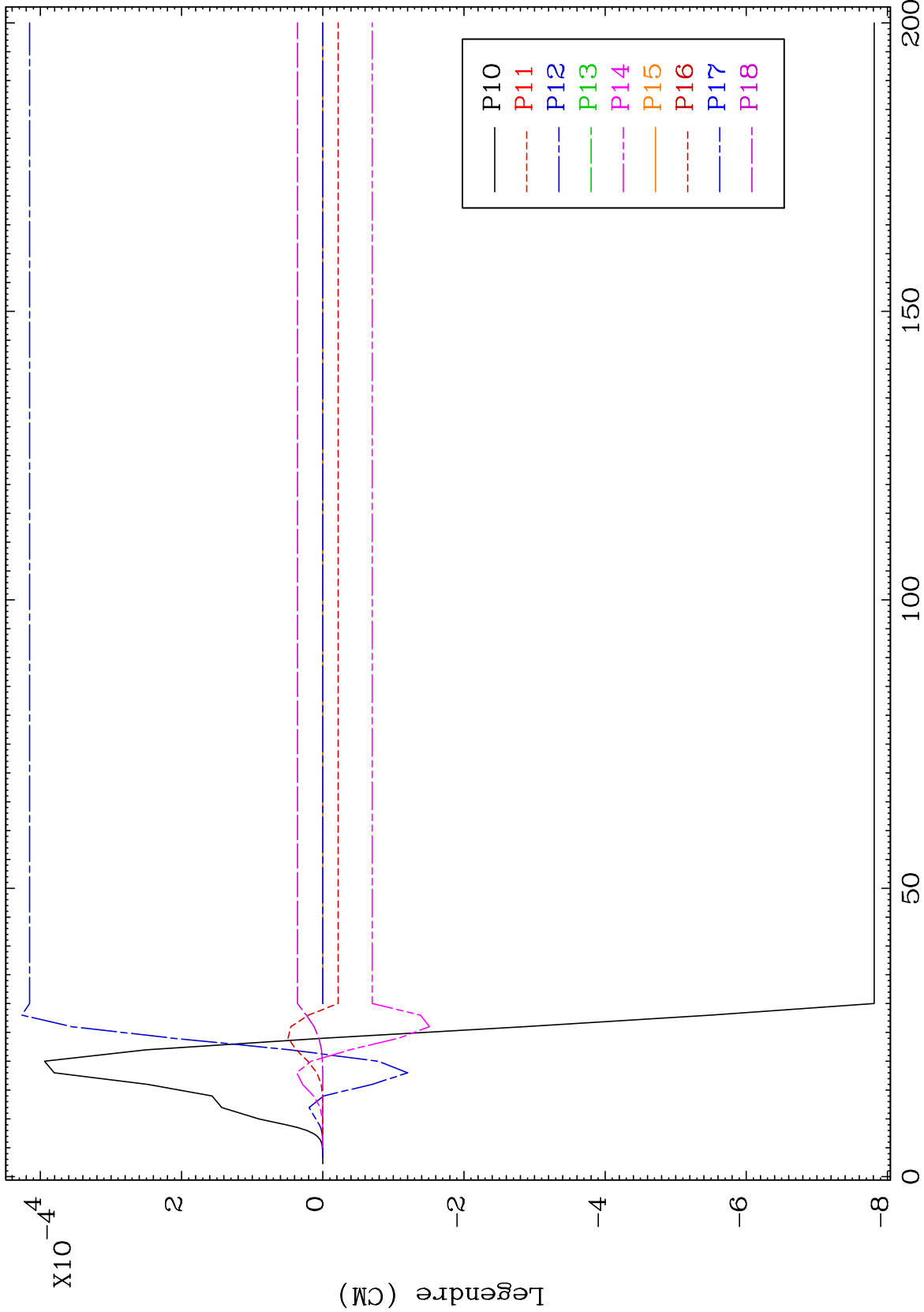
Incident Energy (MeV)

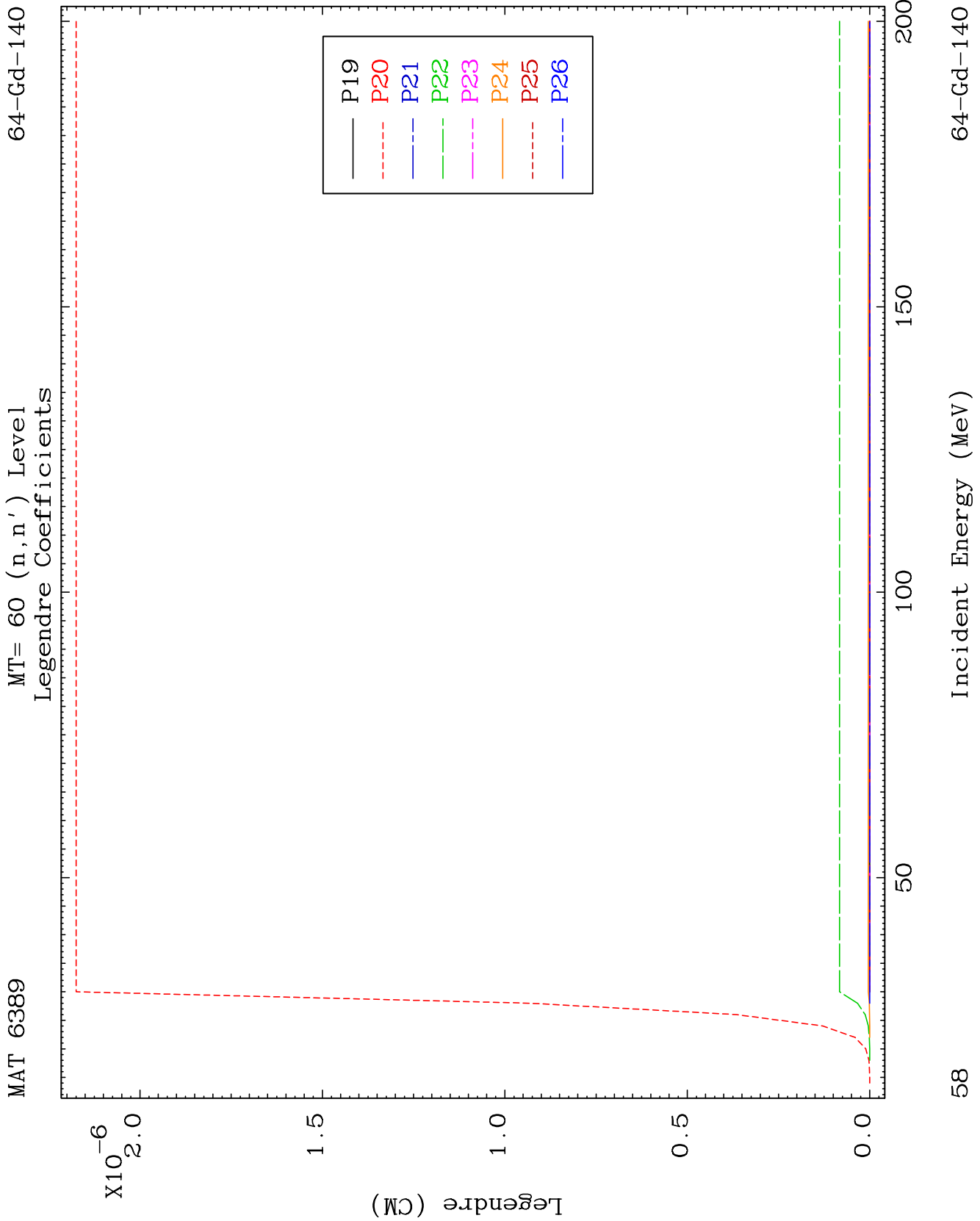
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MAT 6389

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

64-Gd-140



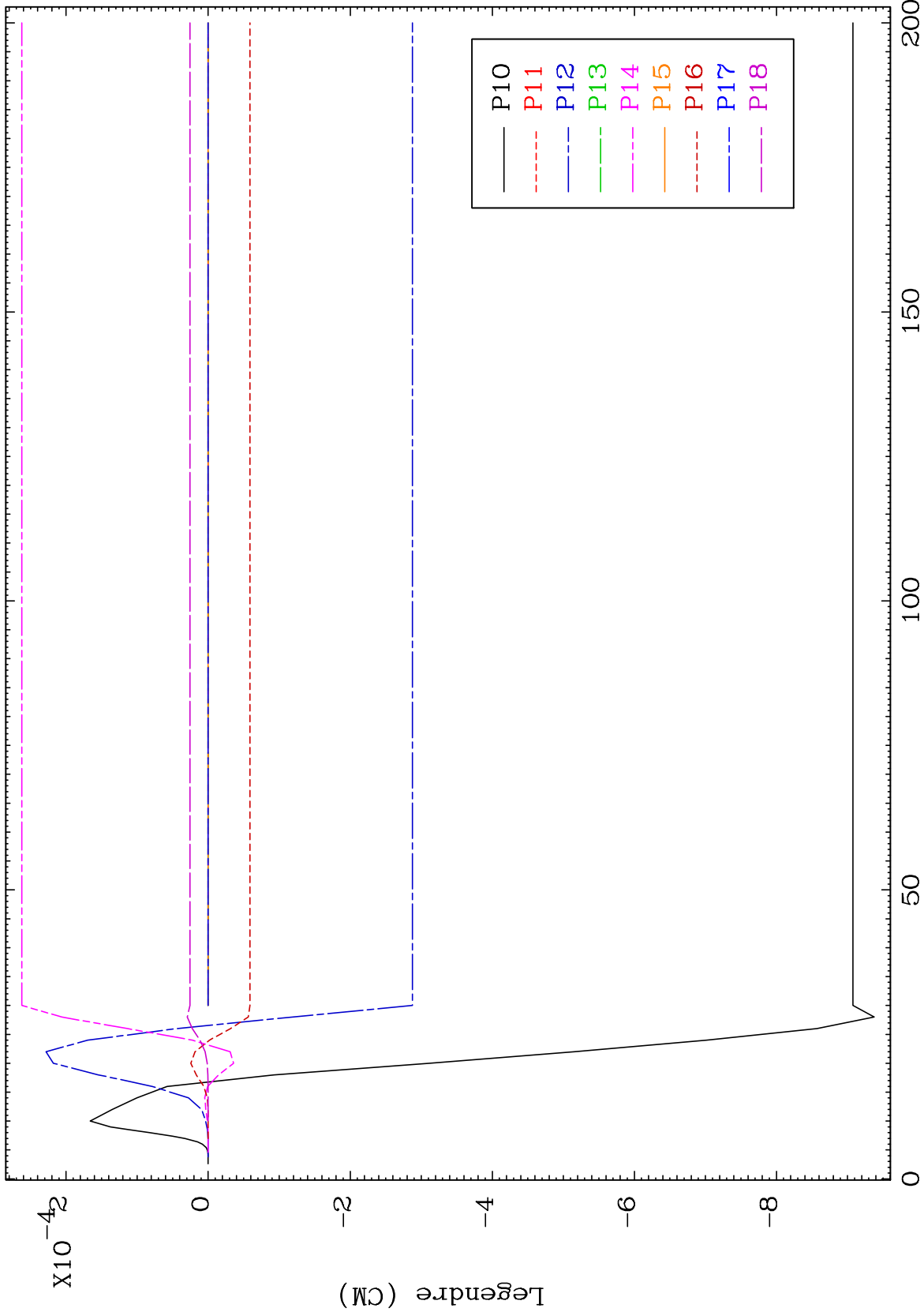




MAT 6389

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

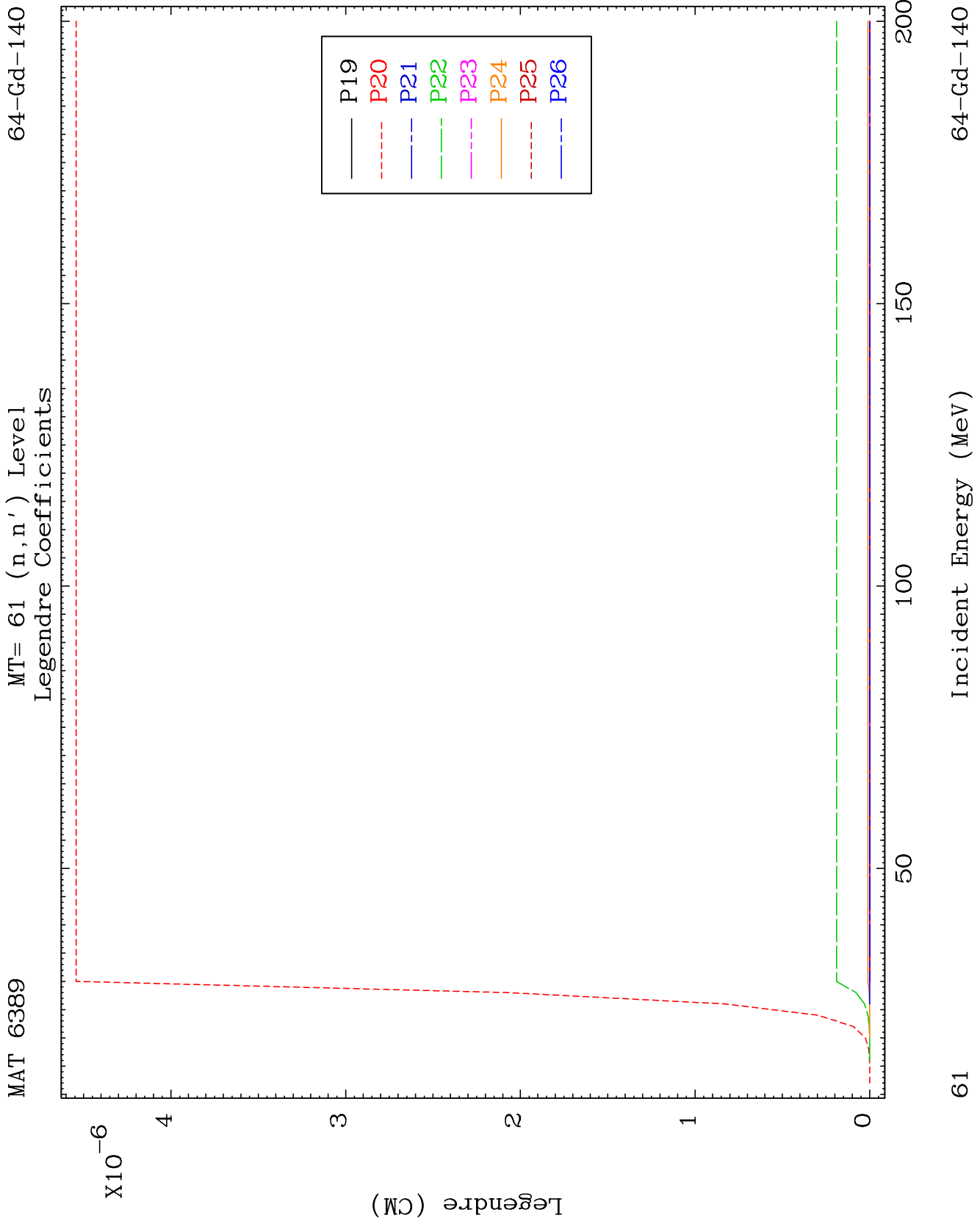
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60

Incident Energy (MeV)

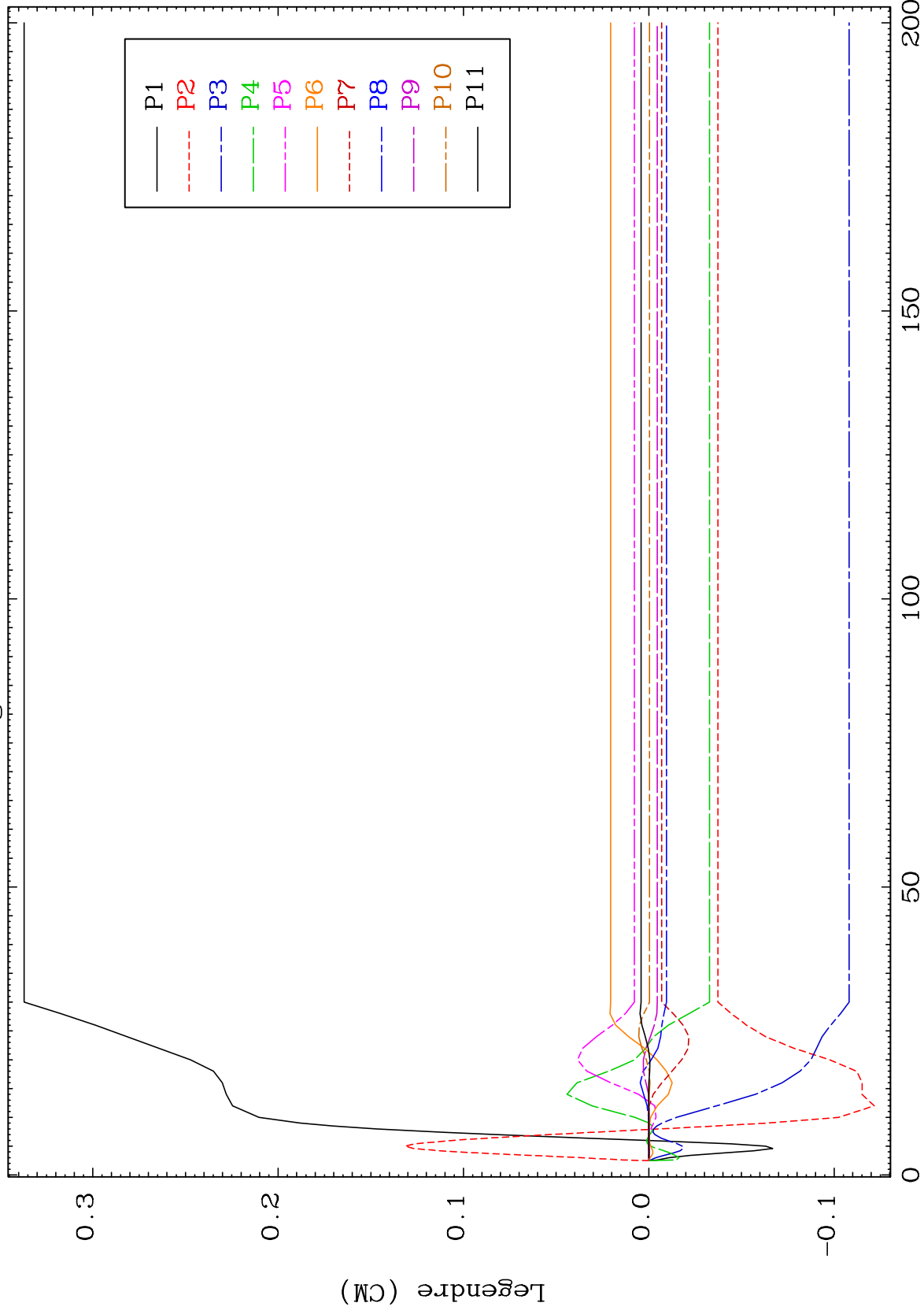
64-Gd-140



MAT 6389

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

64-Gd-140



62

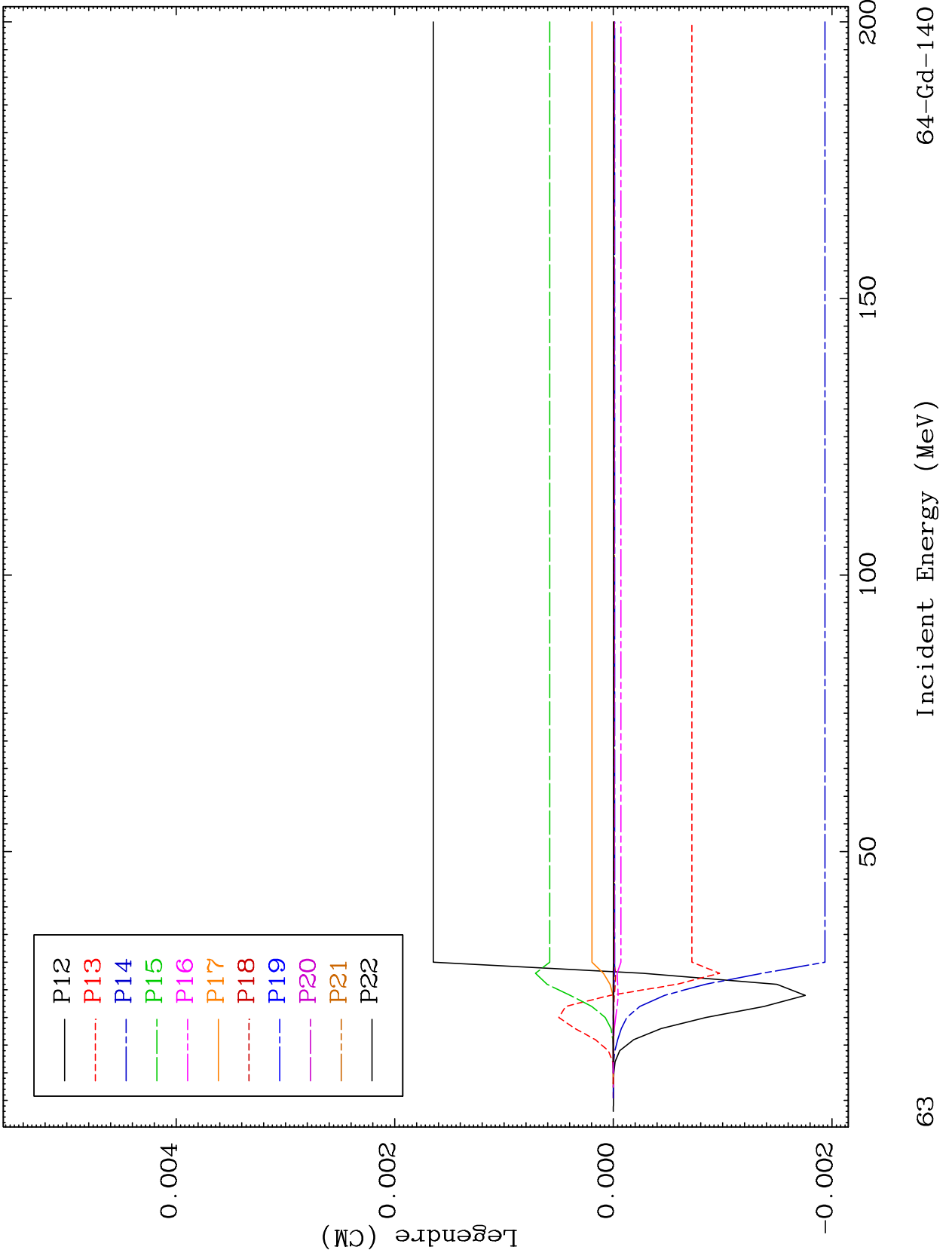
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

64-Gd-140



63

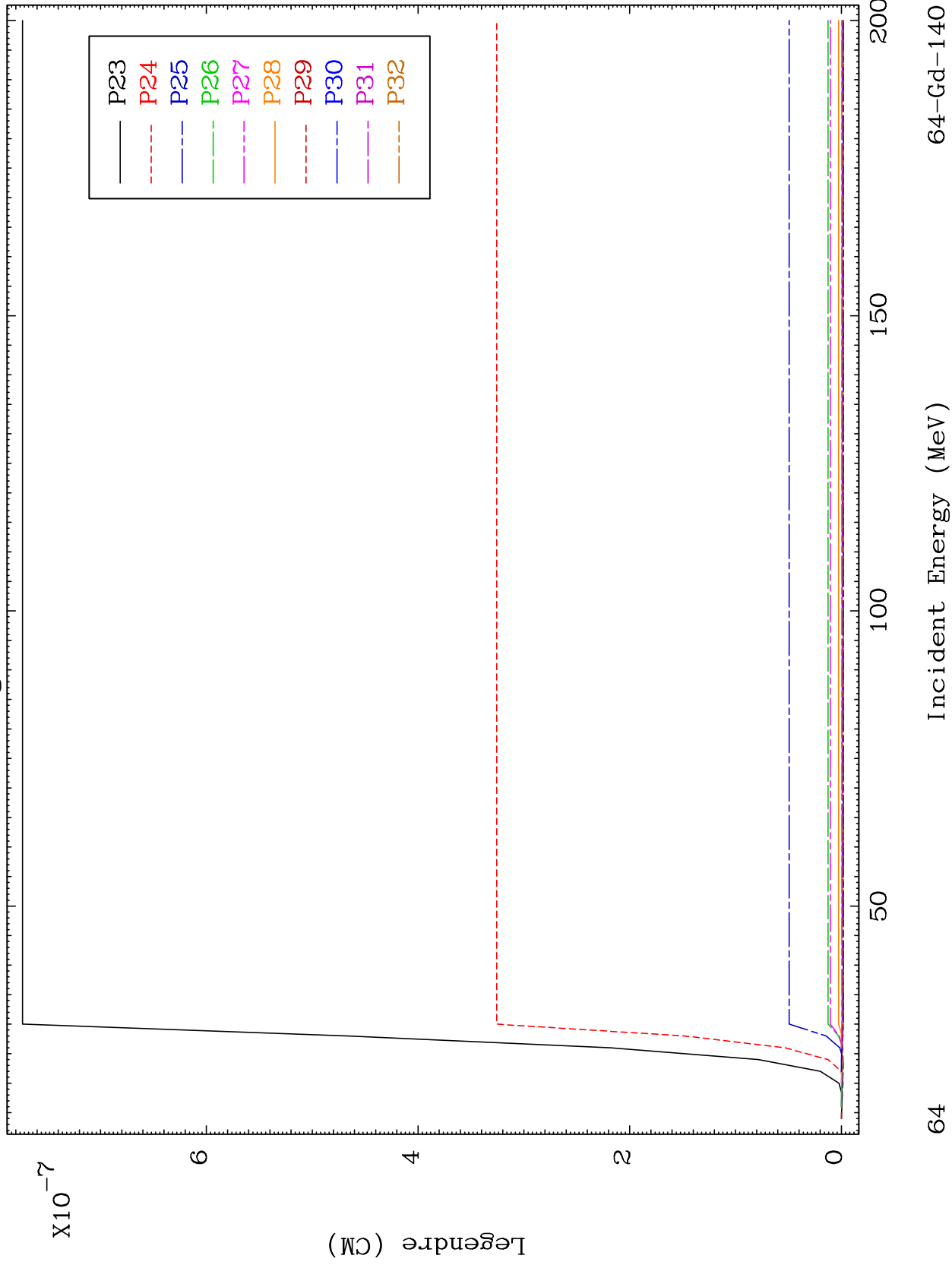
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

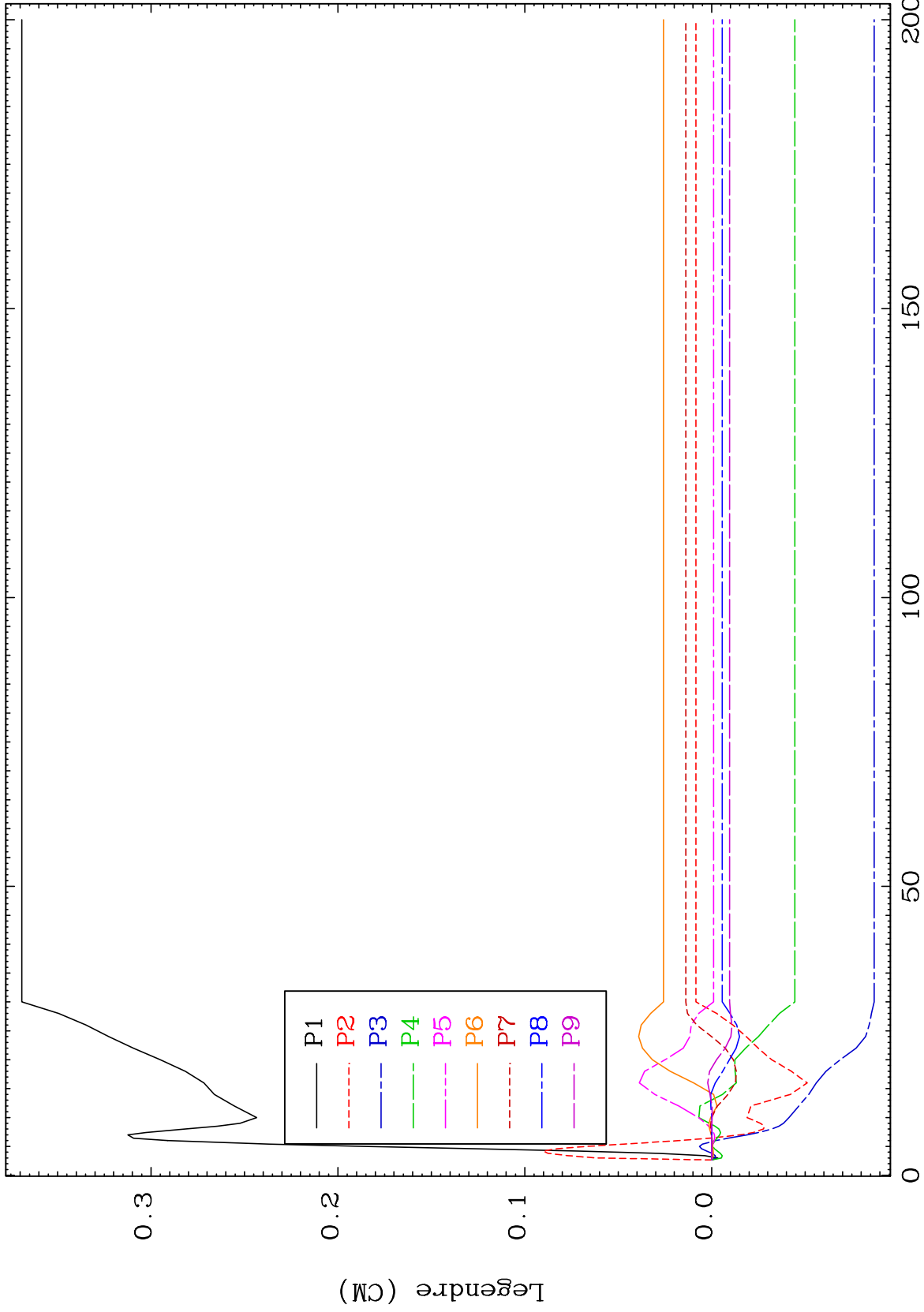
64-Gd-140



MAT 6389

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

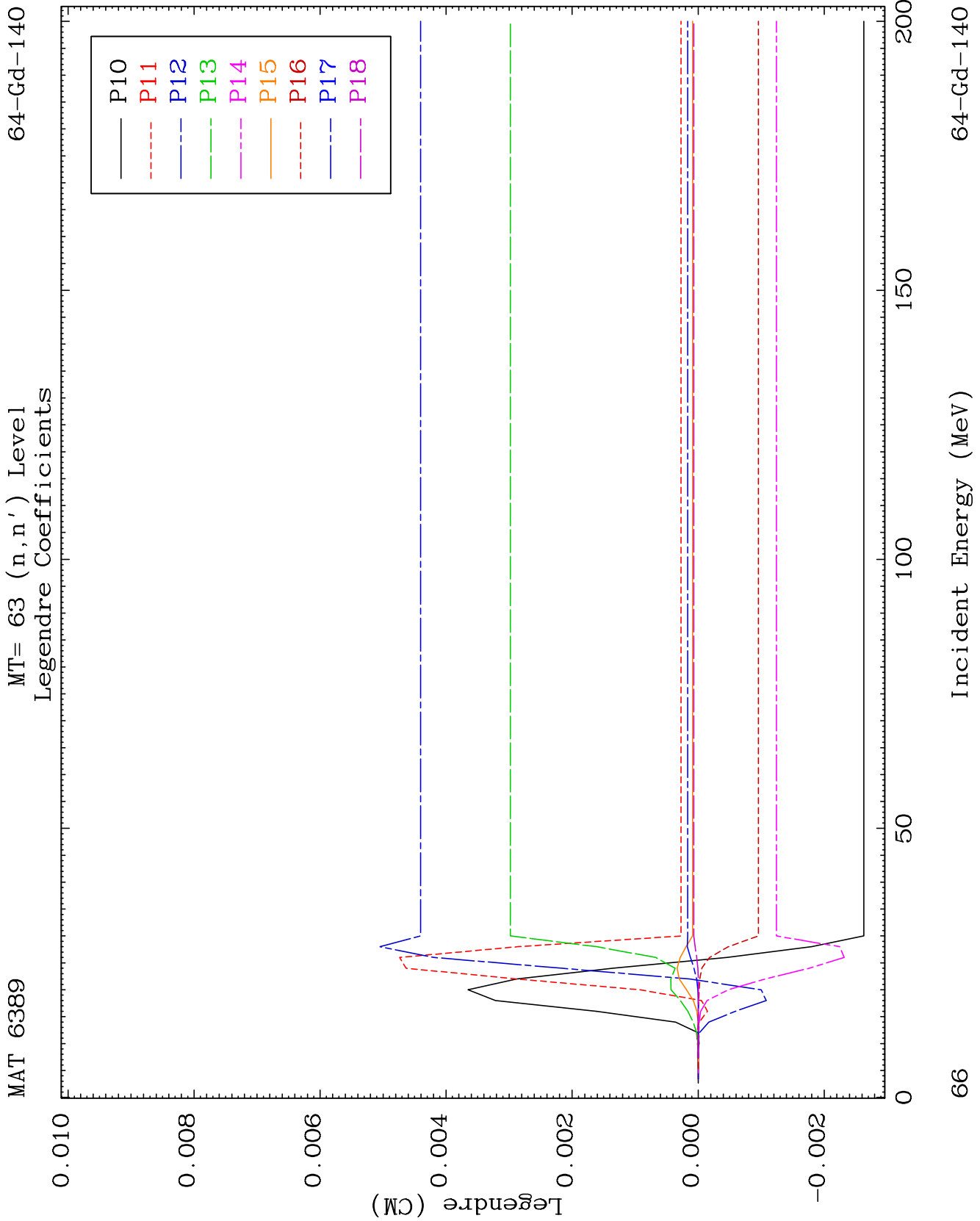
64-Gd-140



65

Incident Energy (MeV)

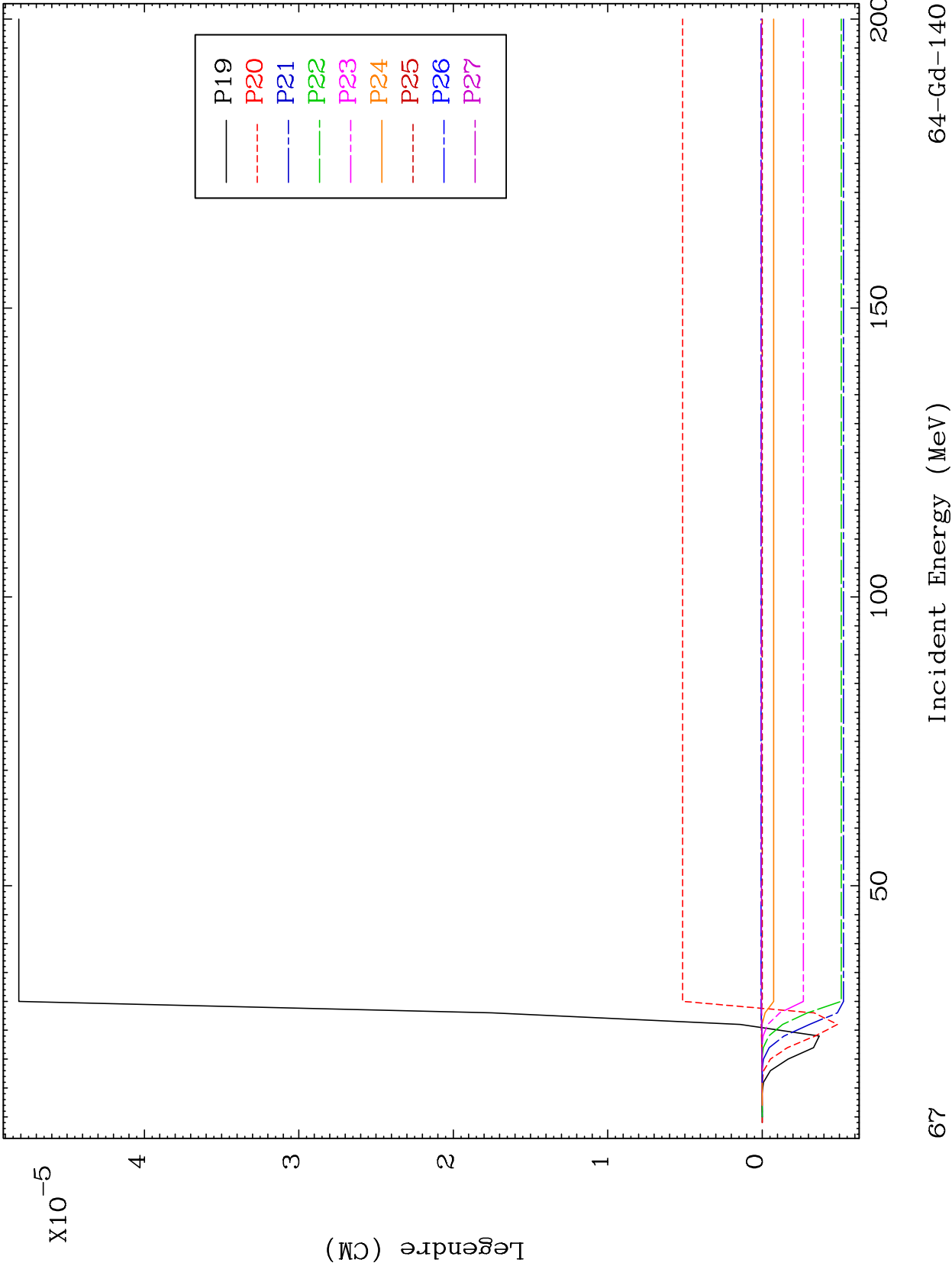
64-Gd-140



MAT 6389

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

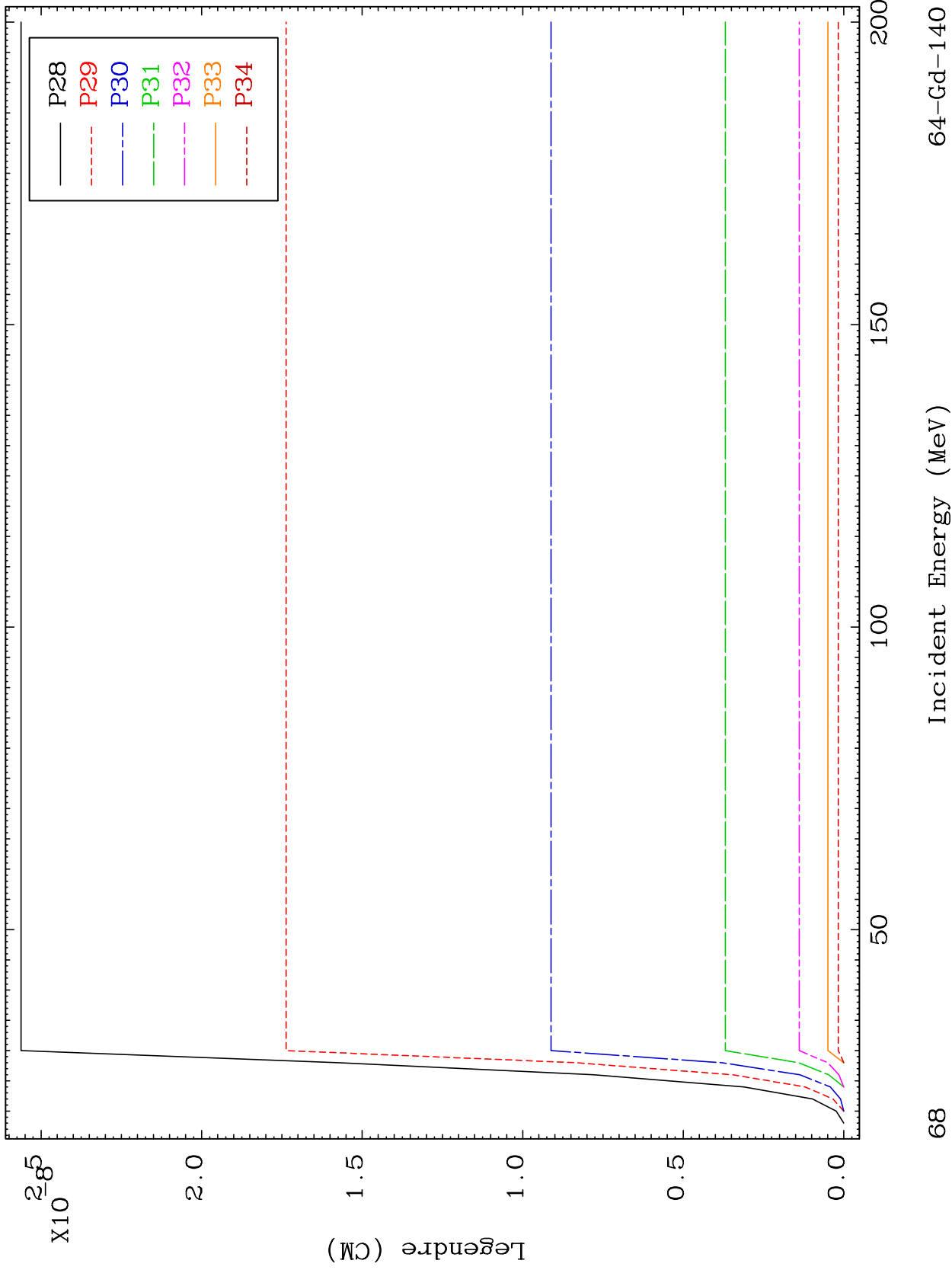
64-Gd-140



MAT 6389

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

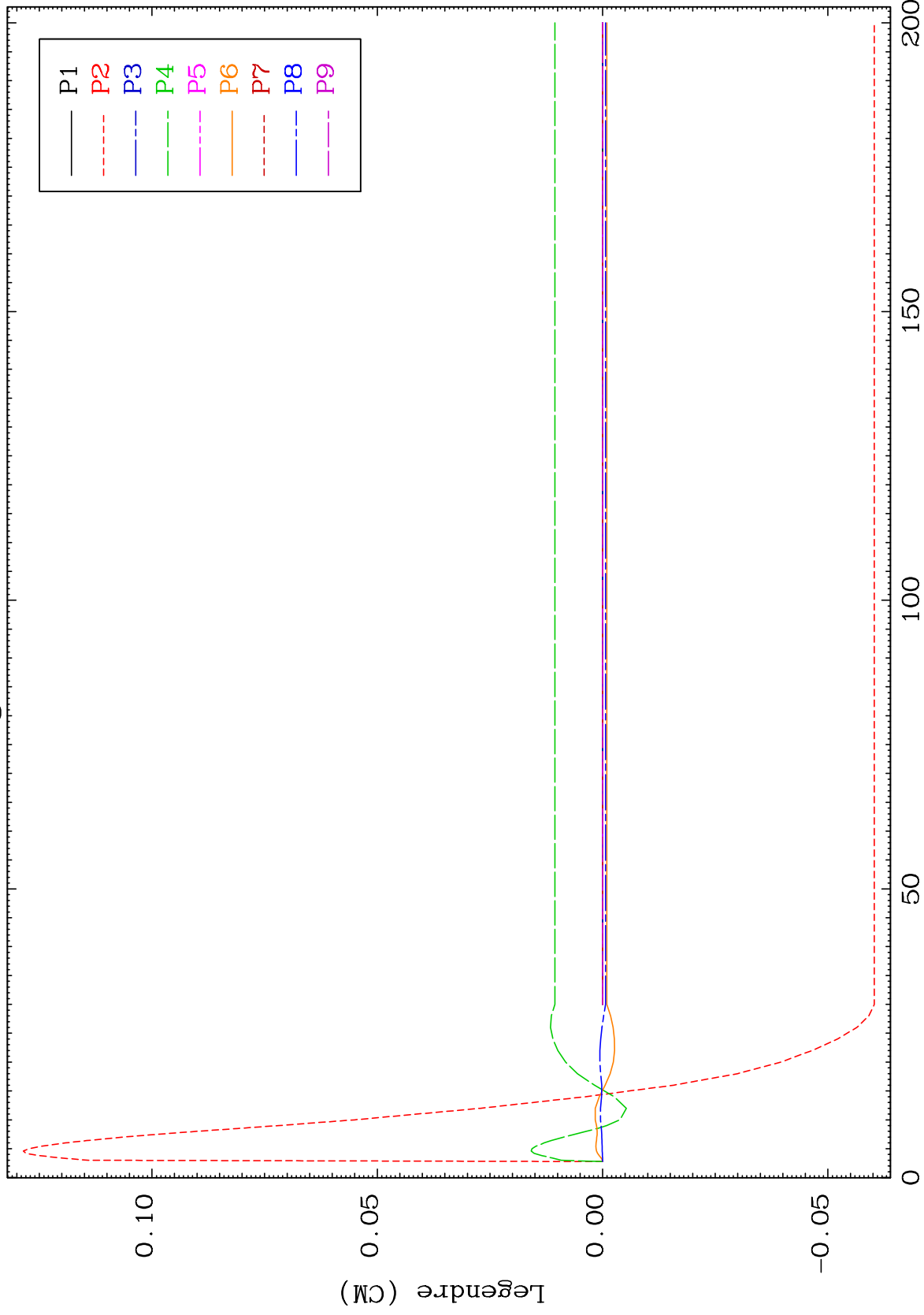
64-Gd-140



MAT 6389

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

64-Gd-140



69

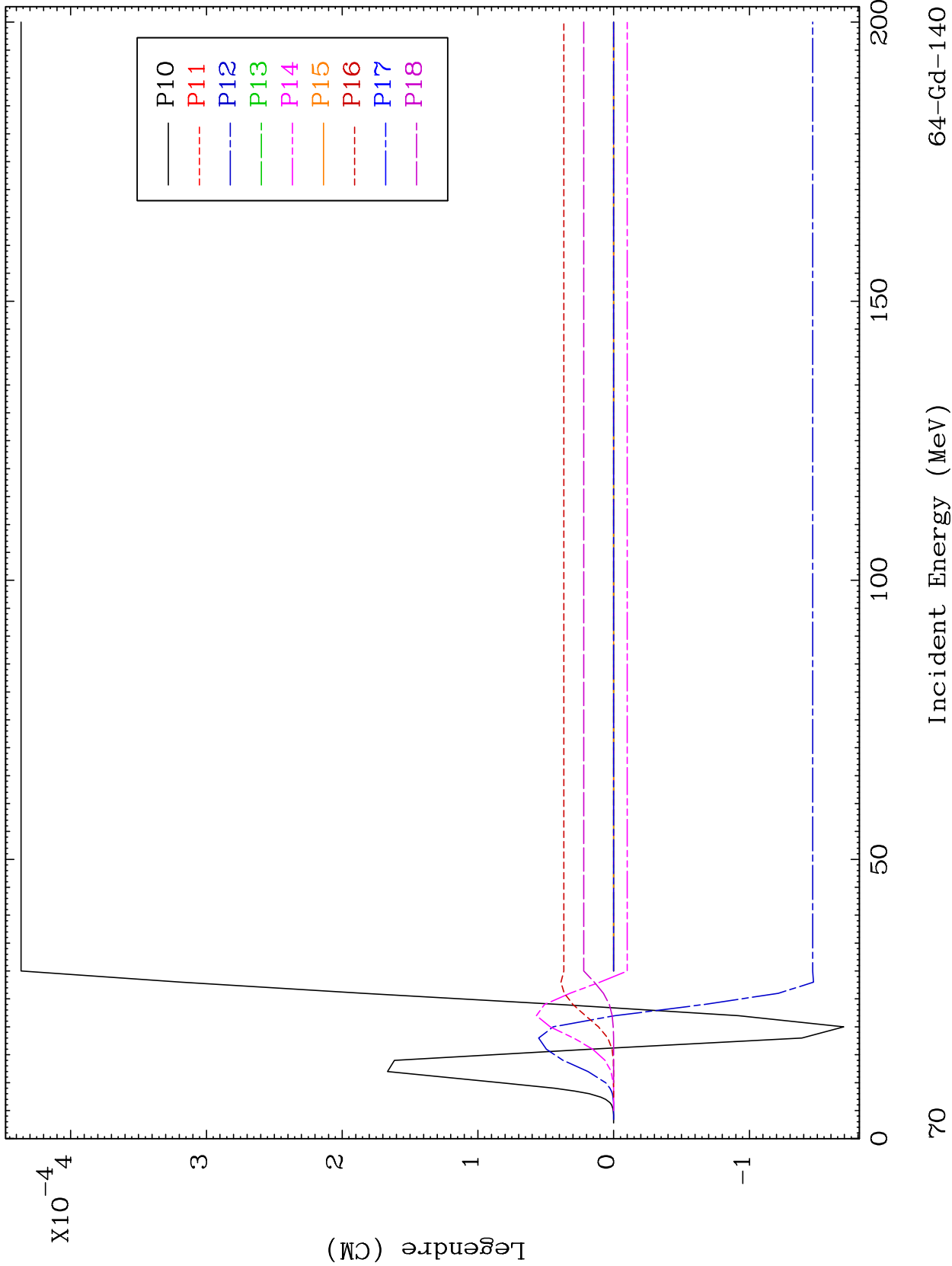
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

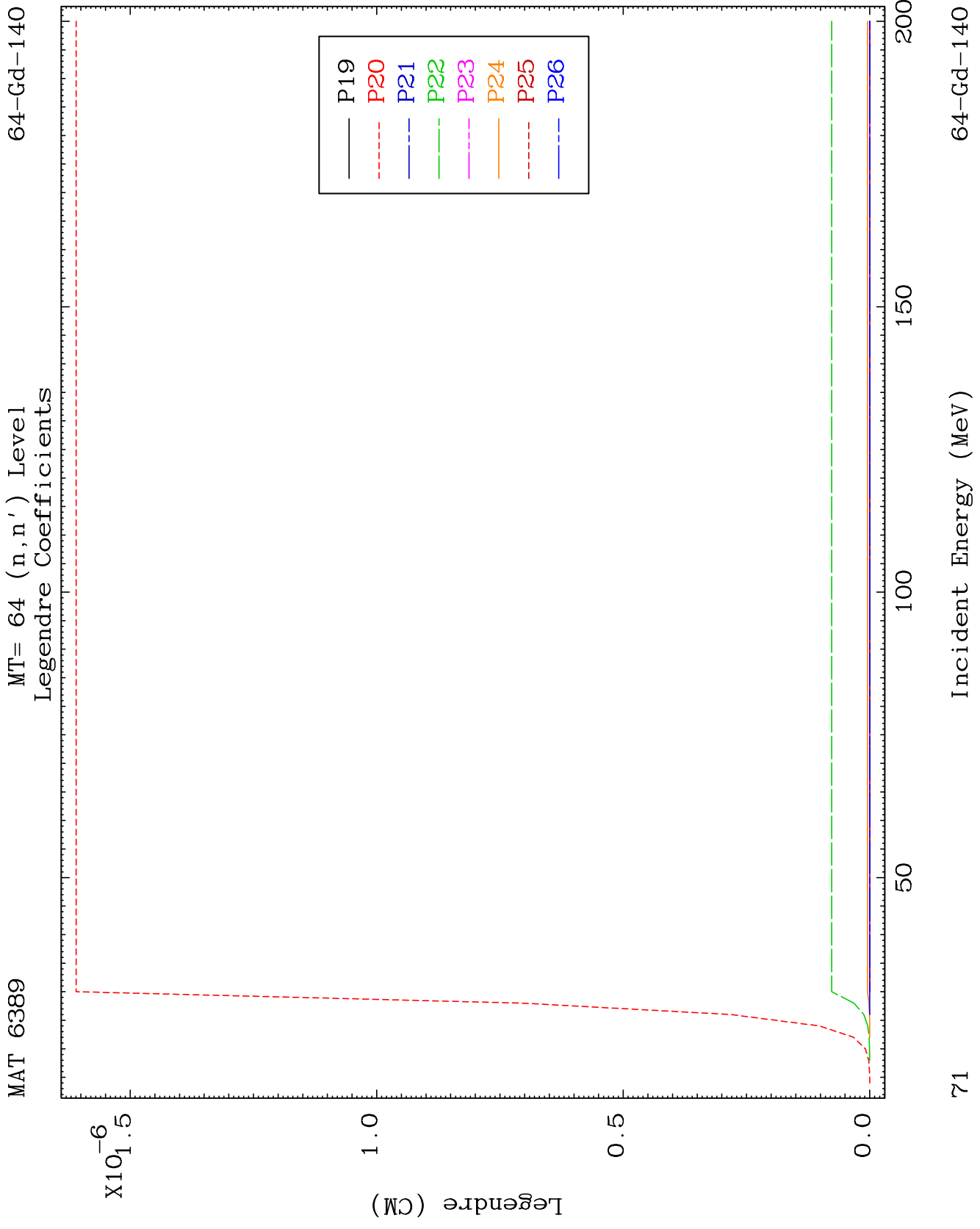
64-Gd-140



64-Gd-140

Incident Energy (MeV)

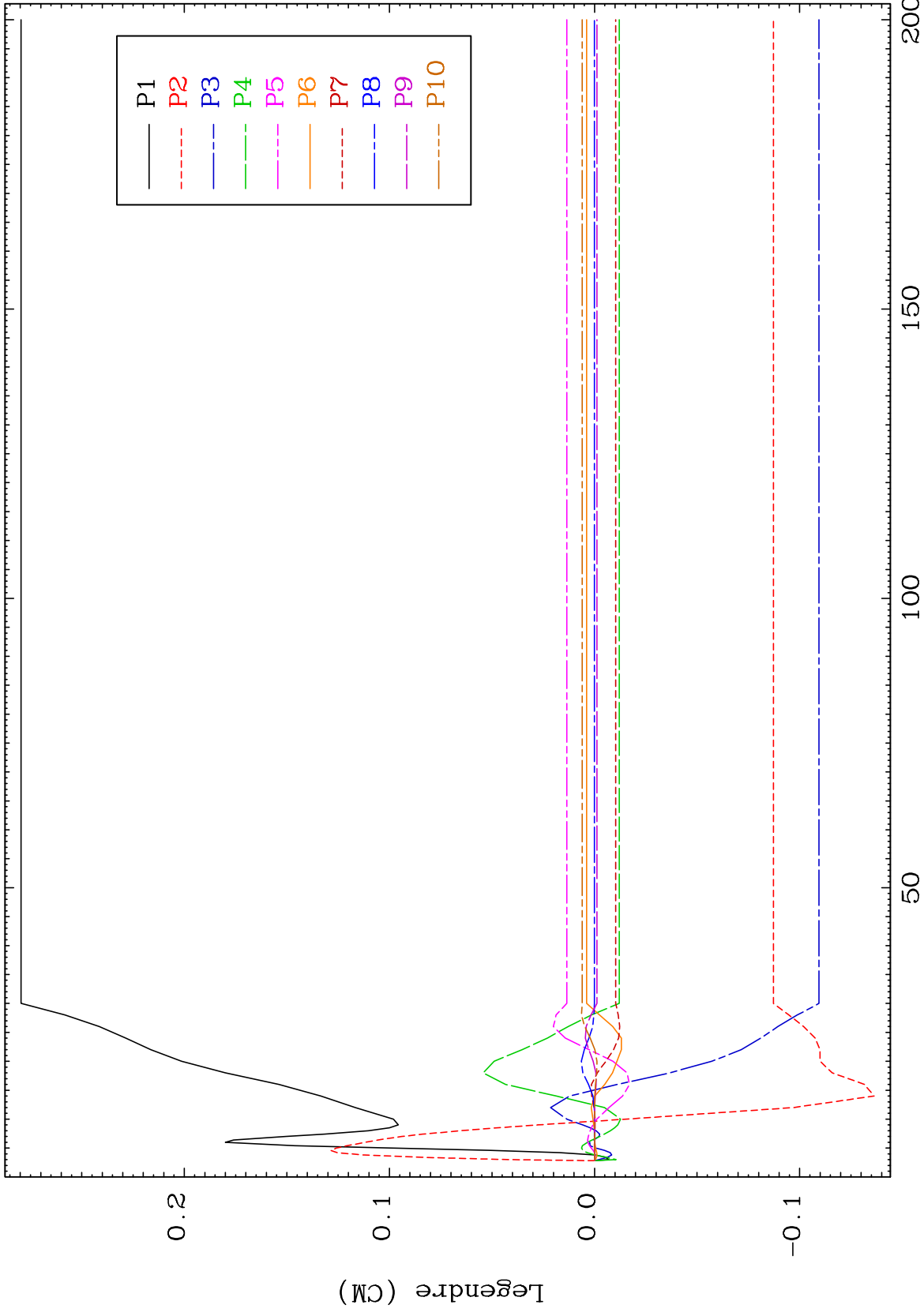
70



MAT 6389

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

64-Gd-140



72

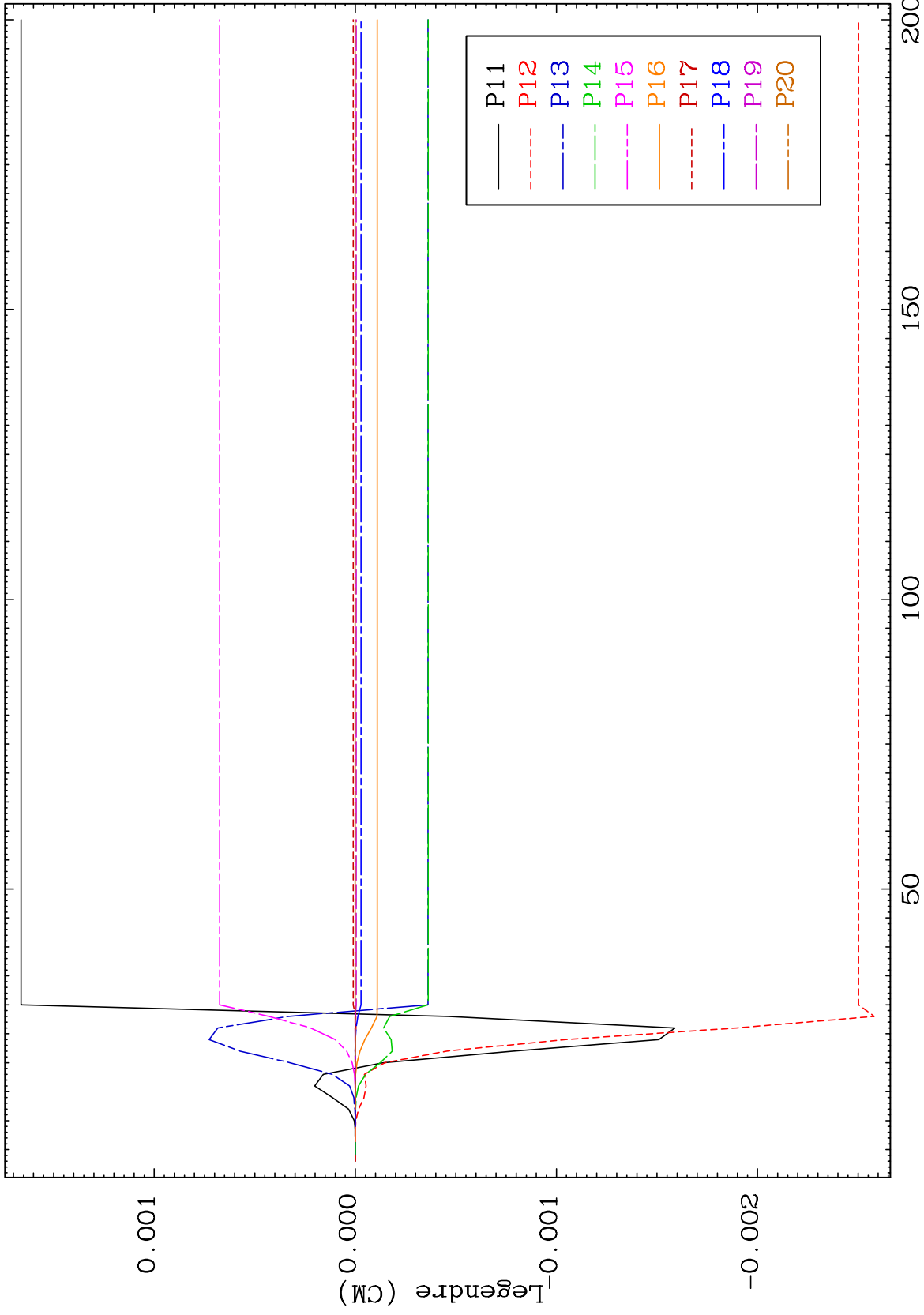
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

64-Gd-140



73

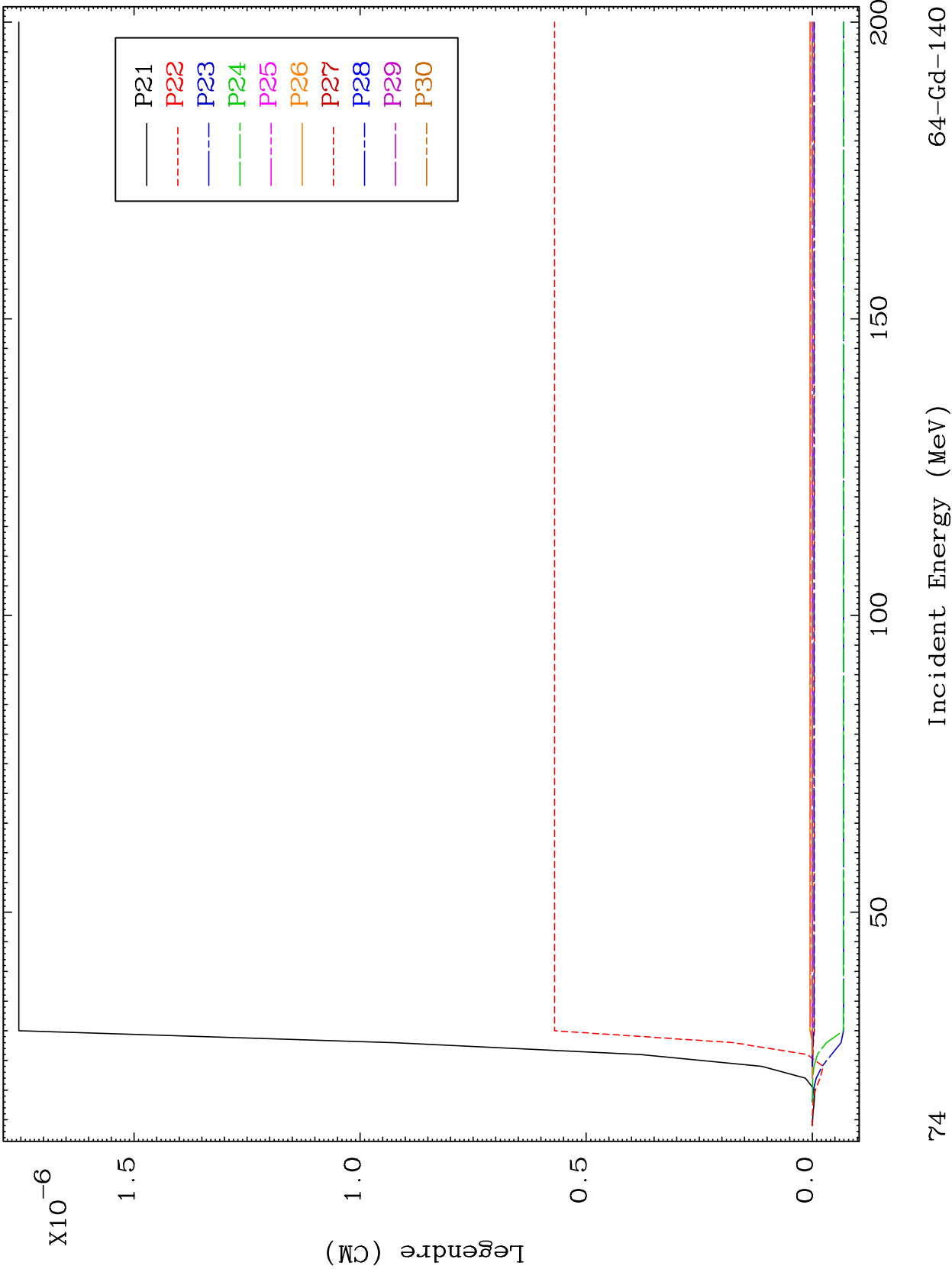
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

64-Gd-140



74

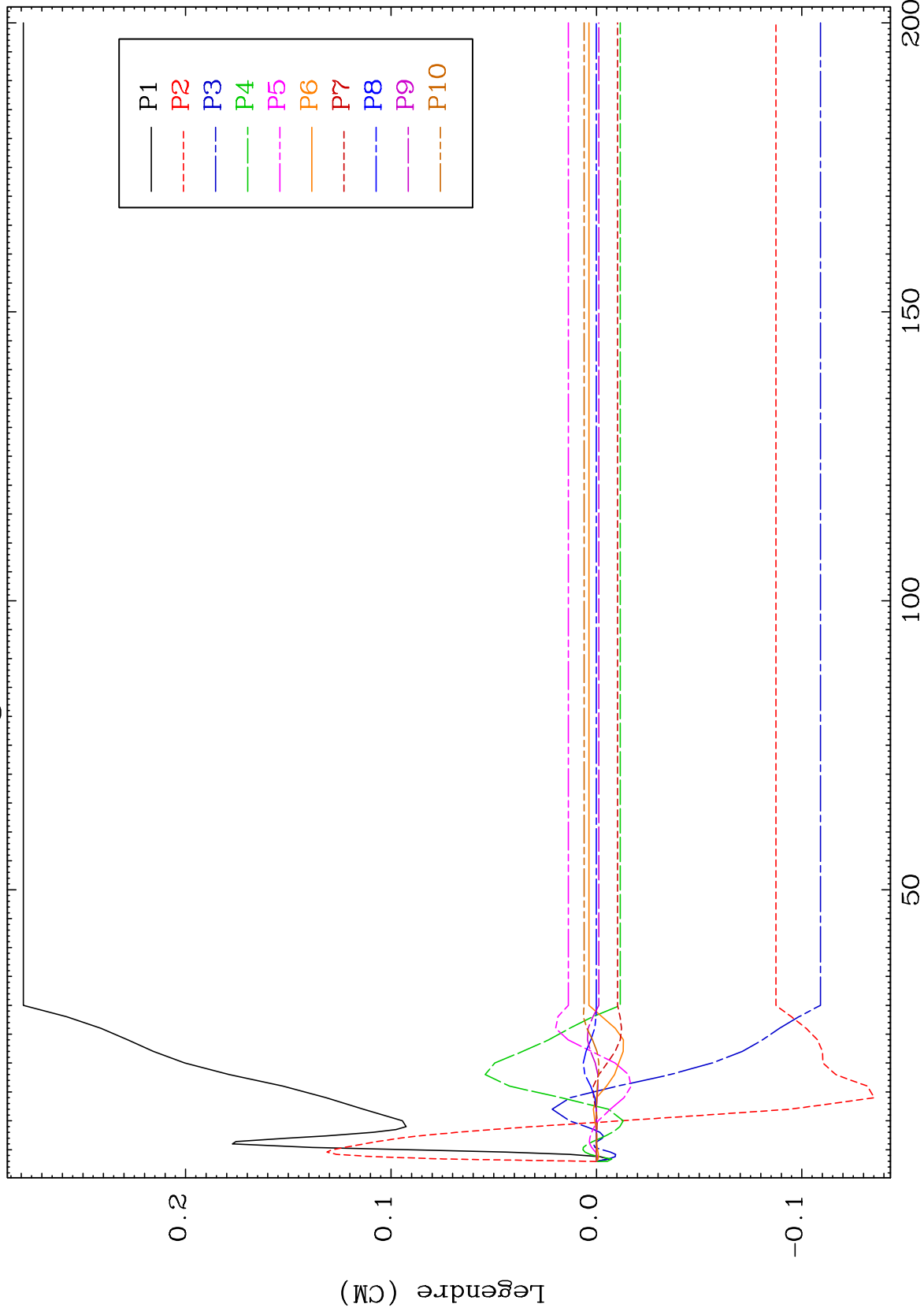
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

64-Gd-140



75

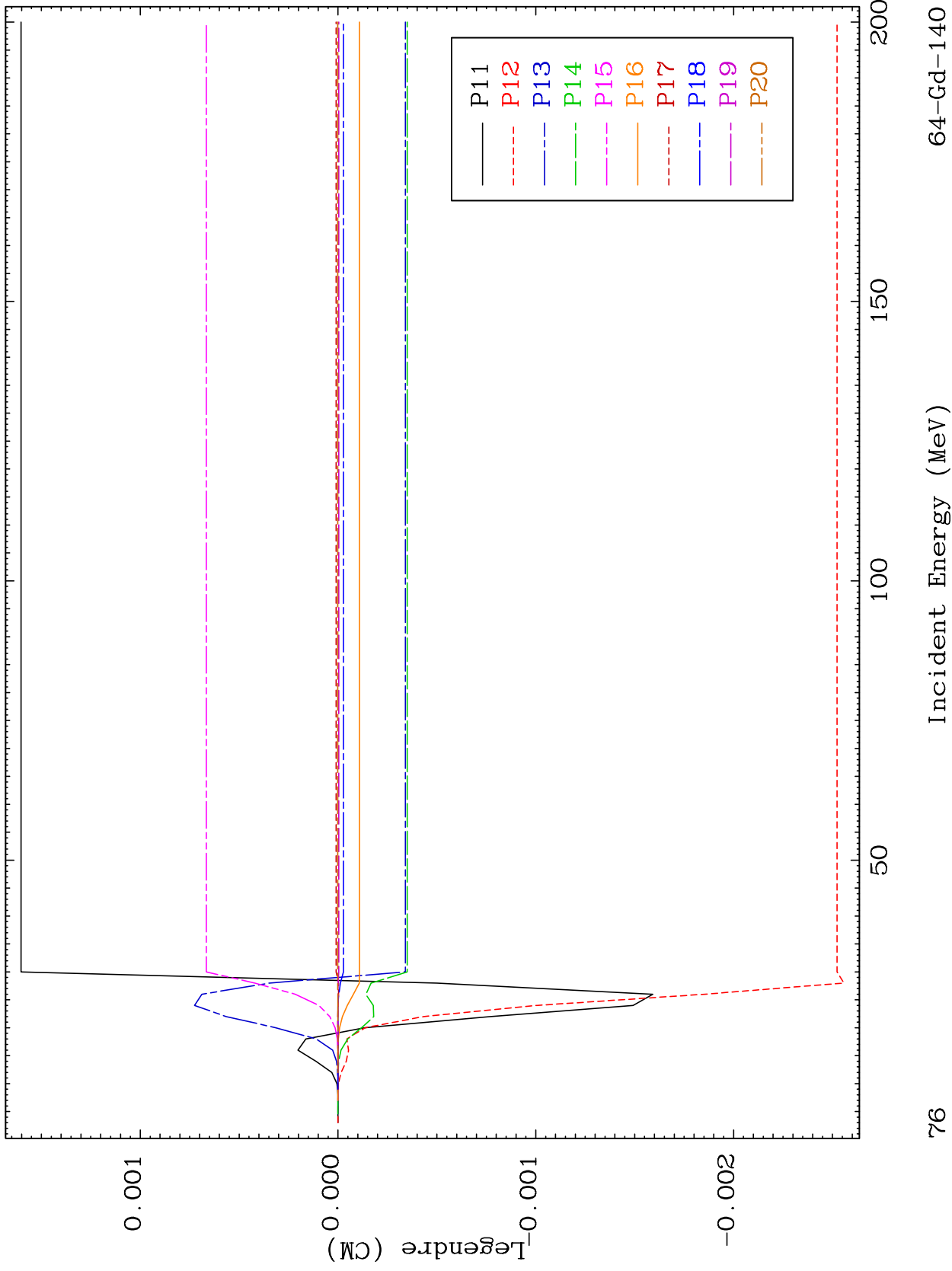
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

64-Gd-140



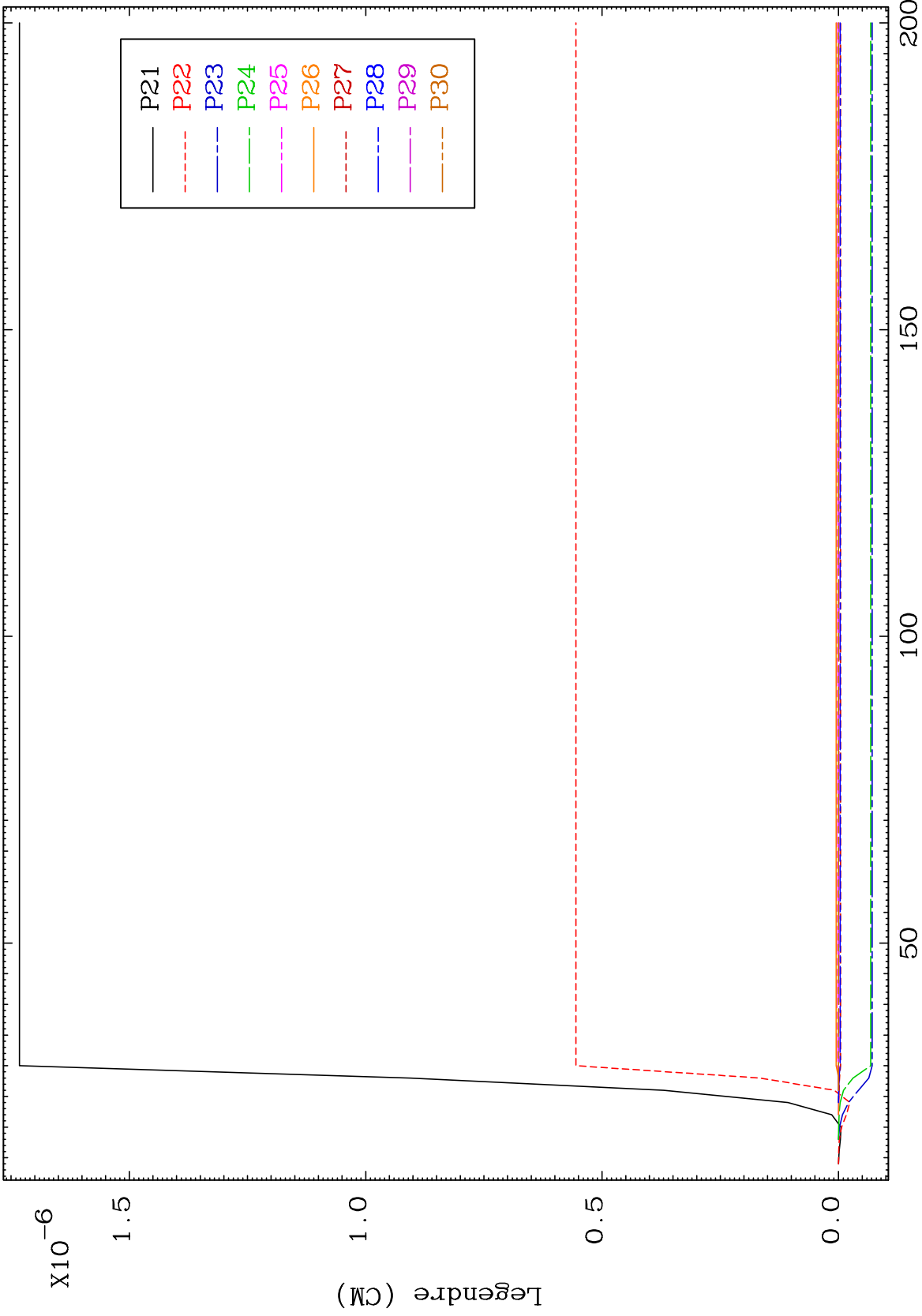
76

64-Gd-140

MAT 6389

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

64-Gd-140



77

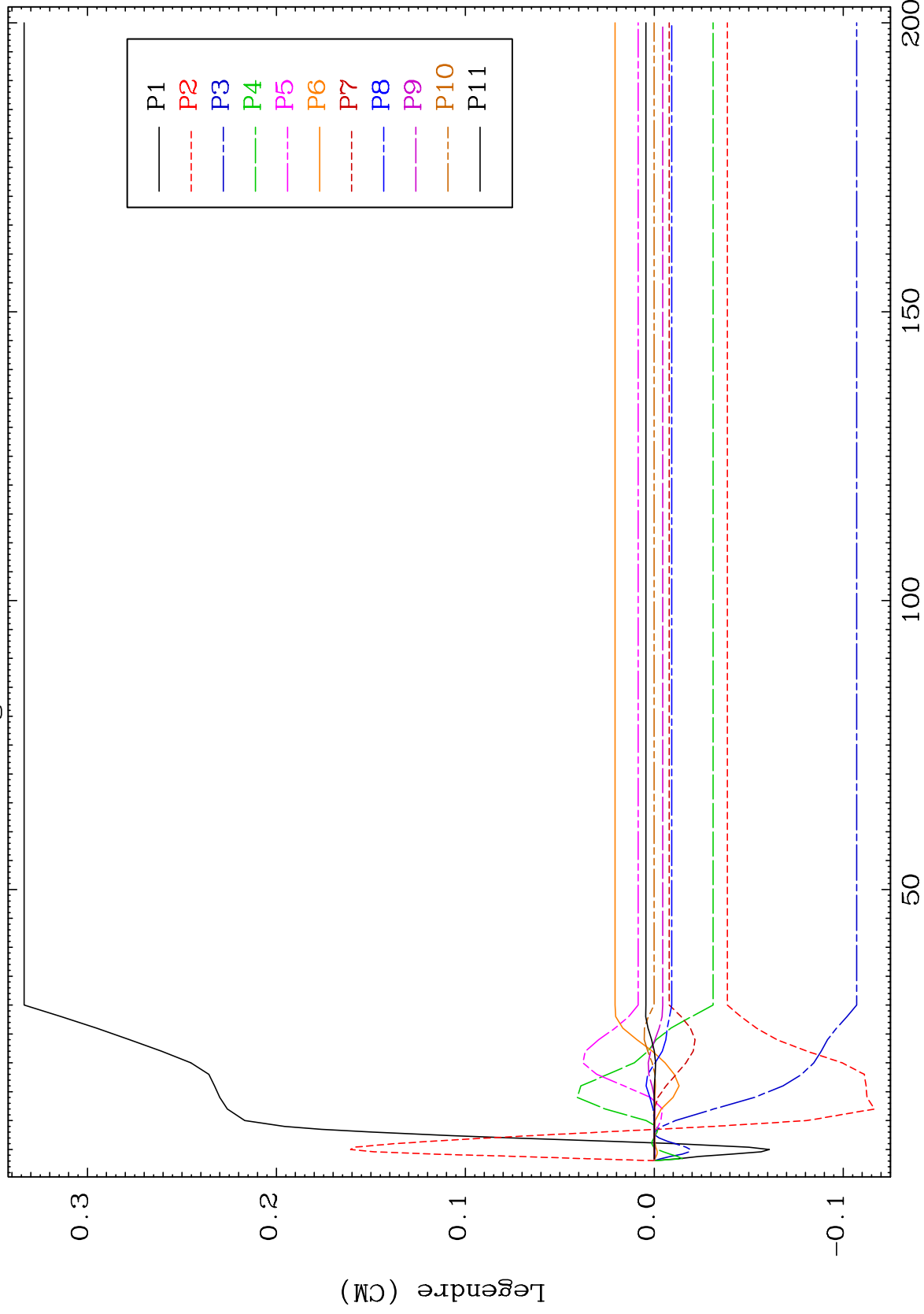
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

64-Gd-140



78

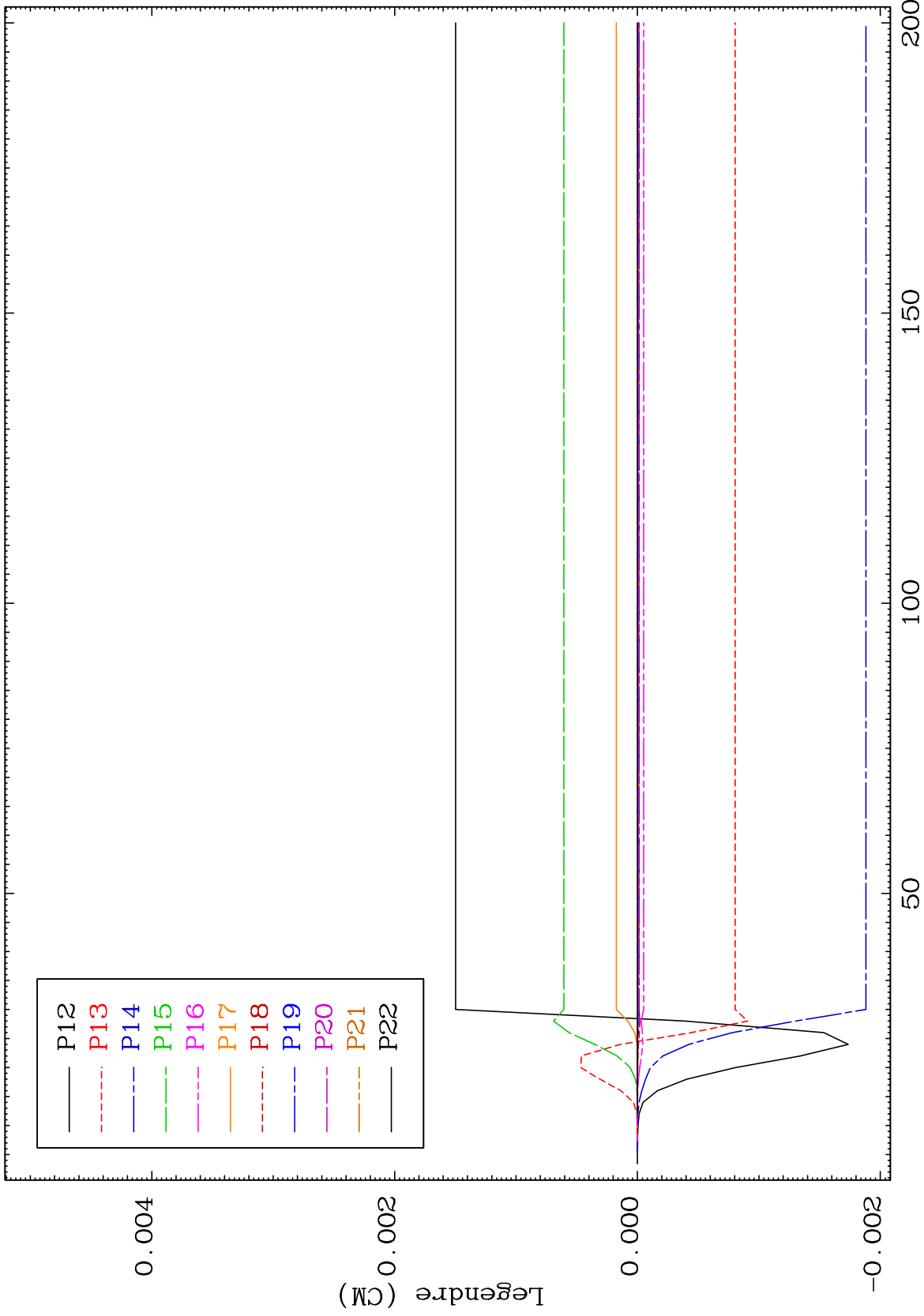
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

64-Gd-140



79

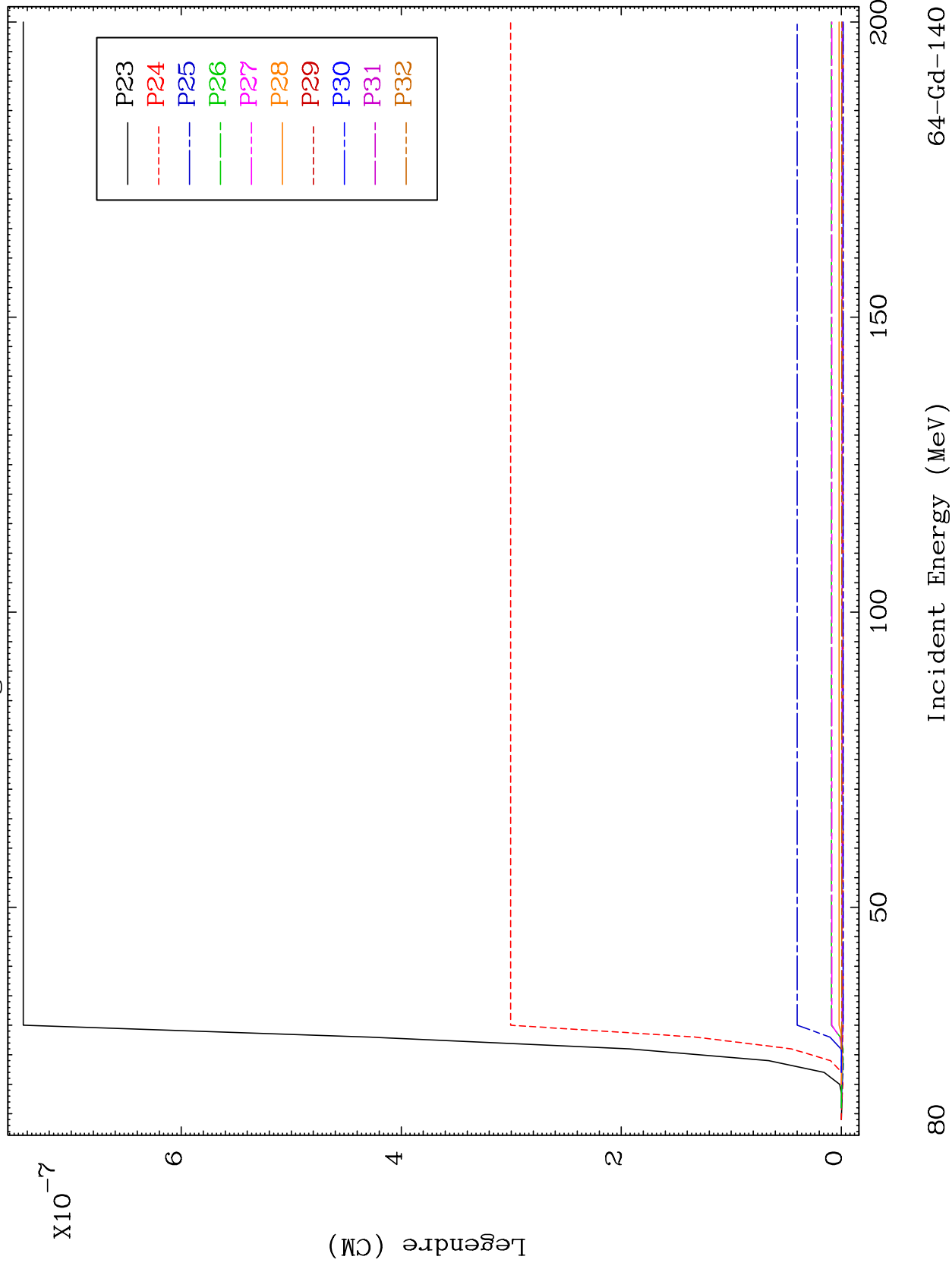
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

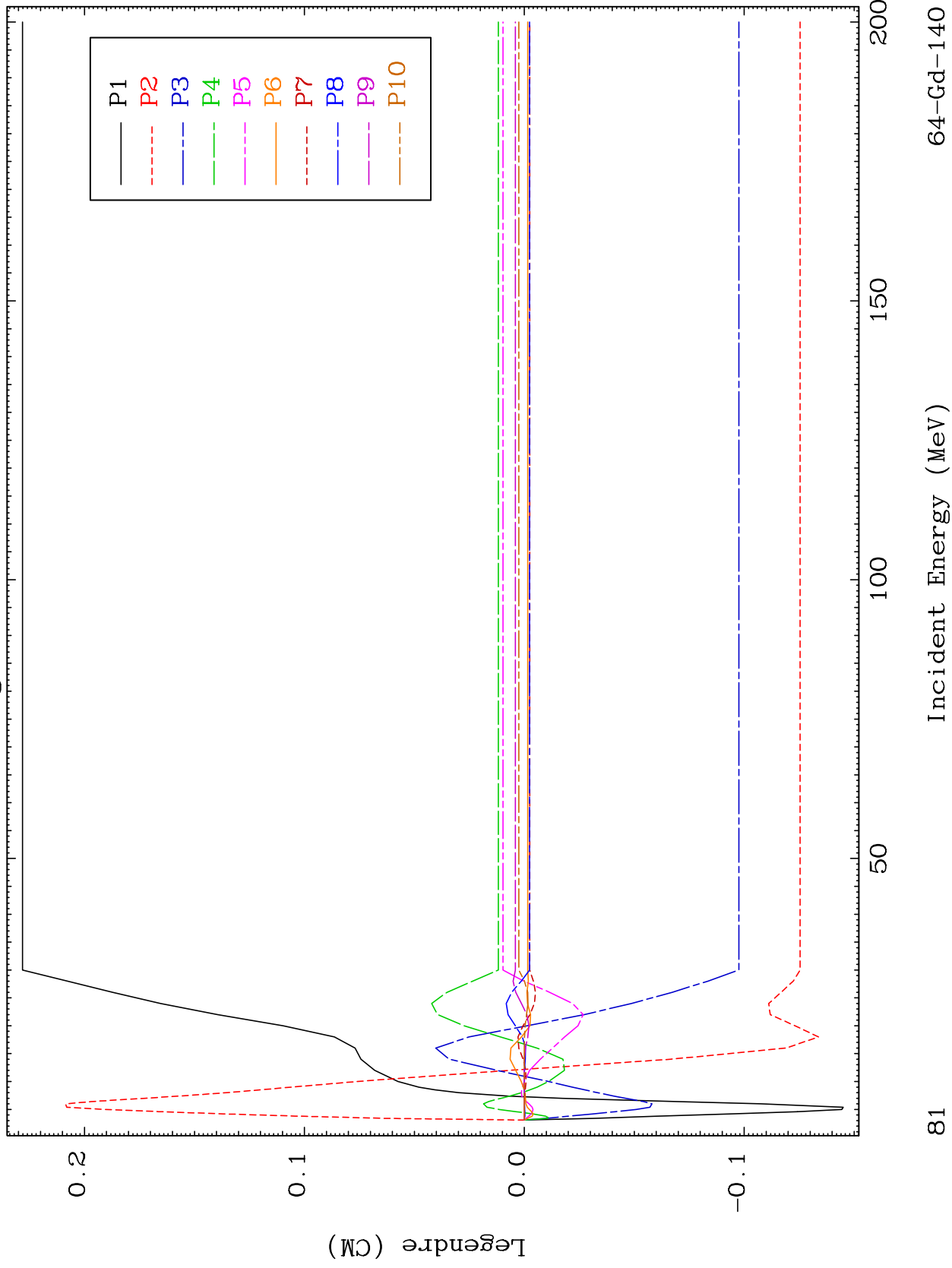
64-Gd-140



MAT 6389

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

64-Gd-140



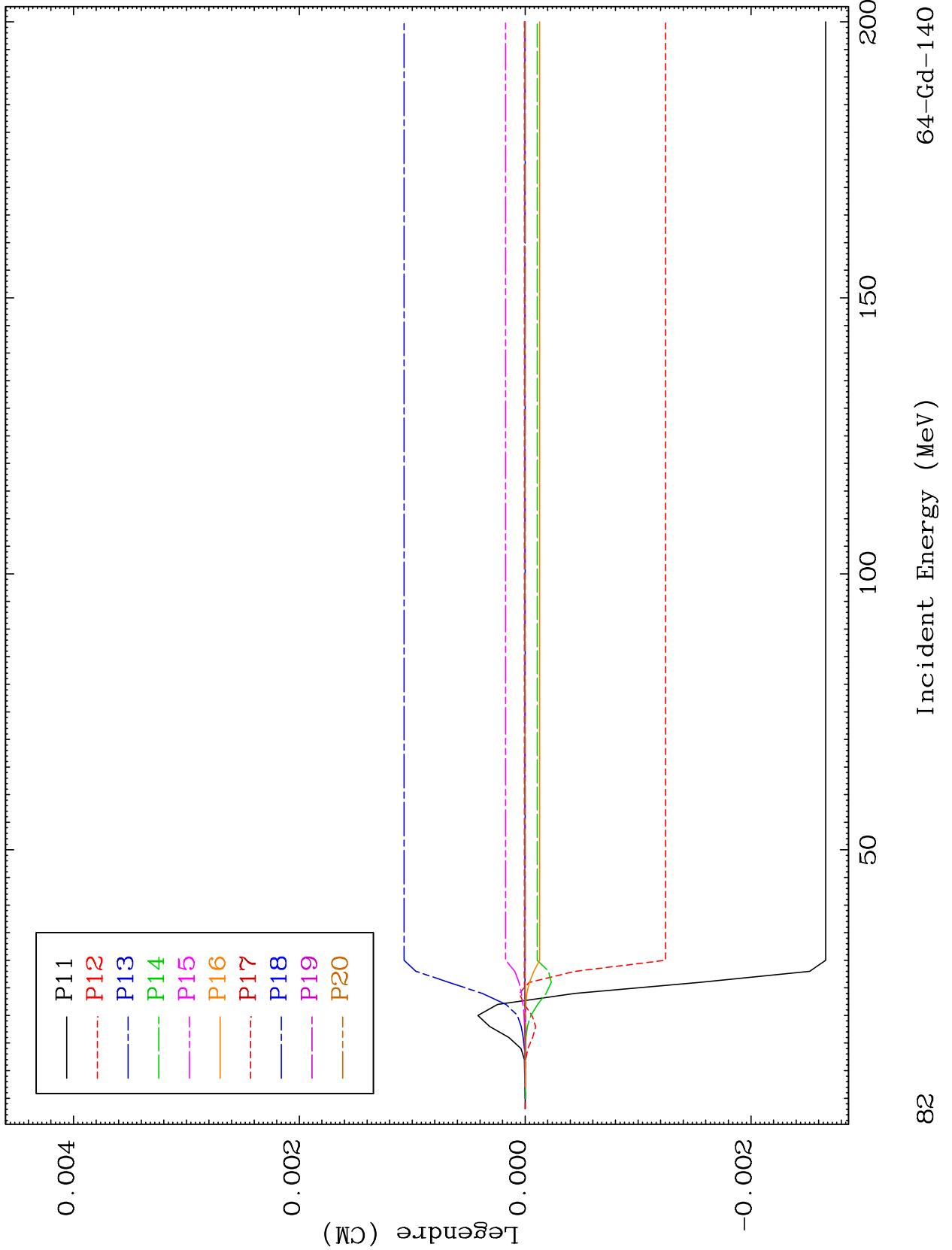
81

64-Gd-140

MAT 6389

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

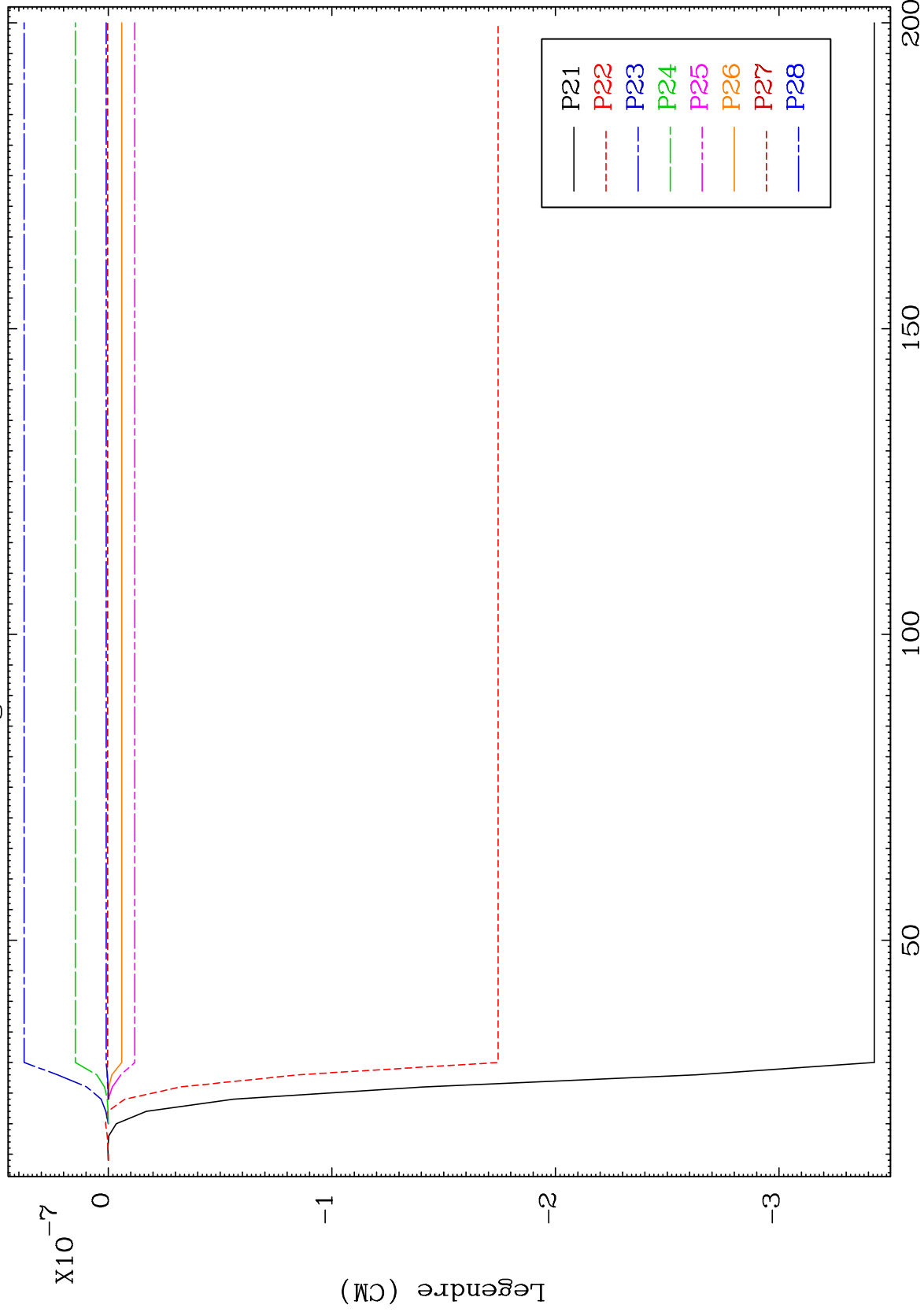
64-Gd-140



MAT 6389

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

64-Gd-140



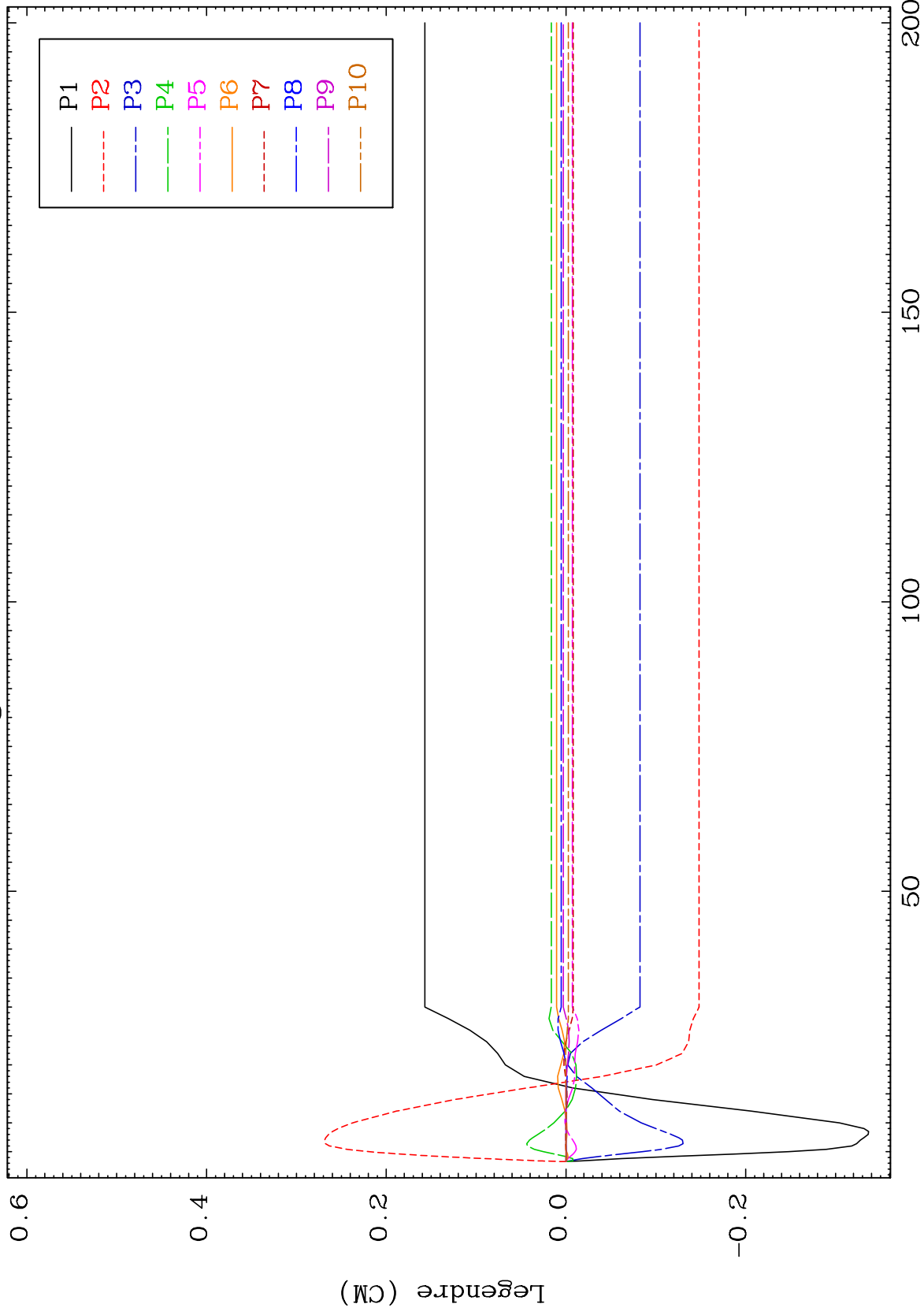
83

64-Gd-140

MAT 6389

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

64-Gd-140



84

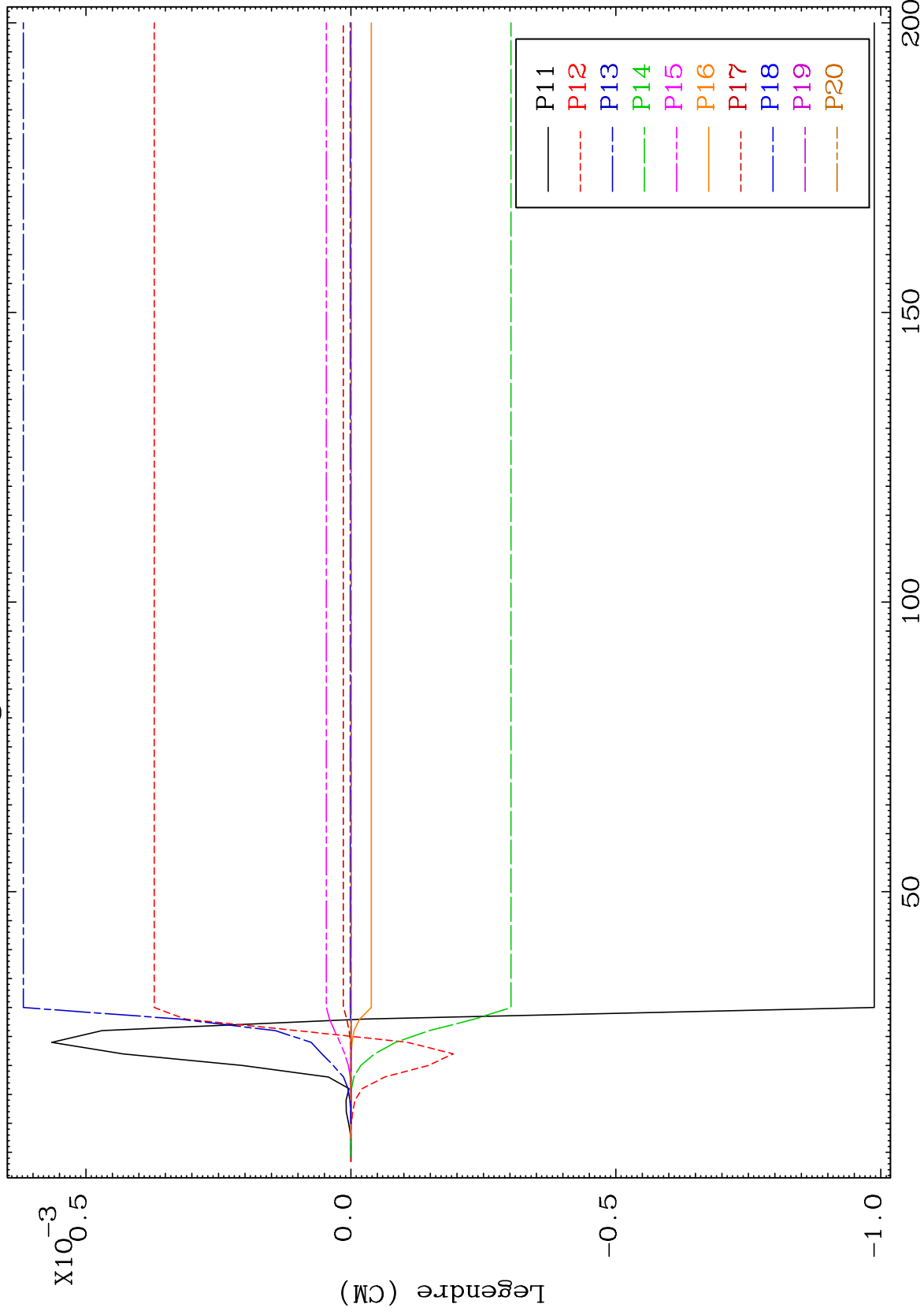
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

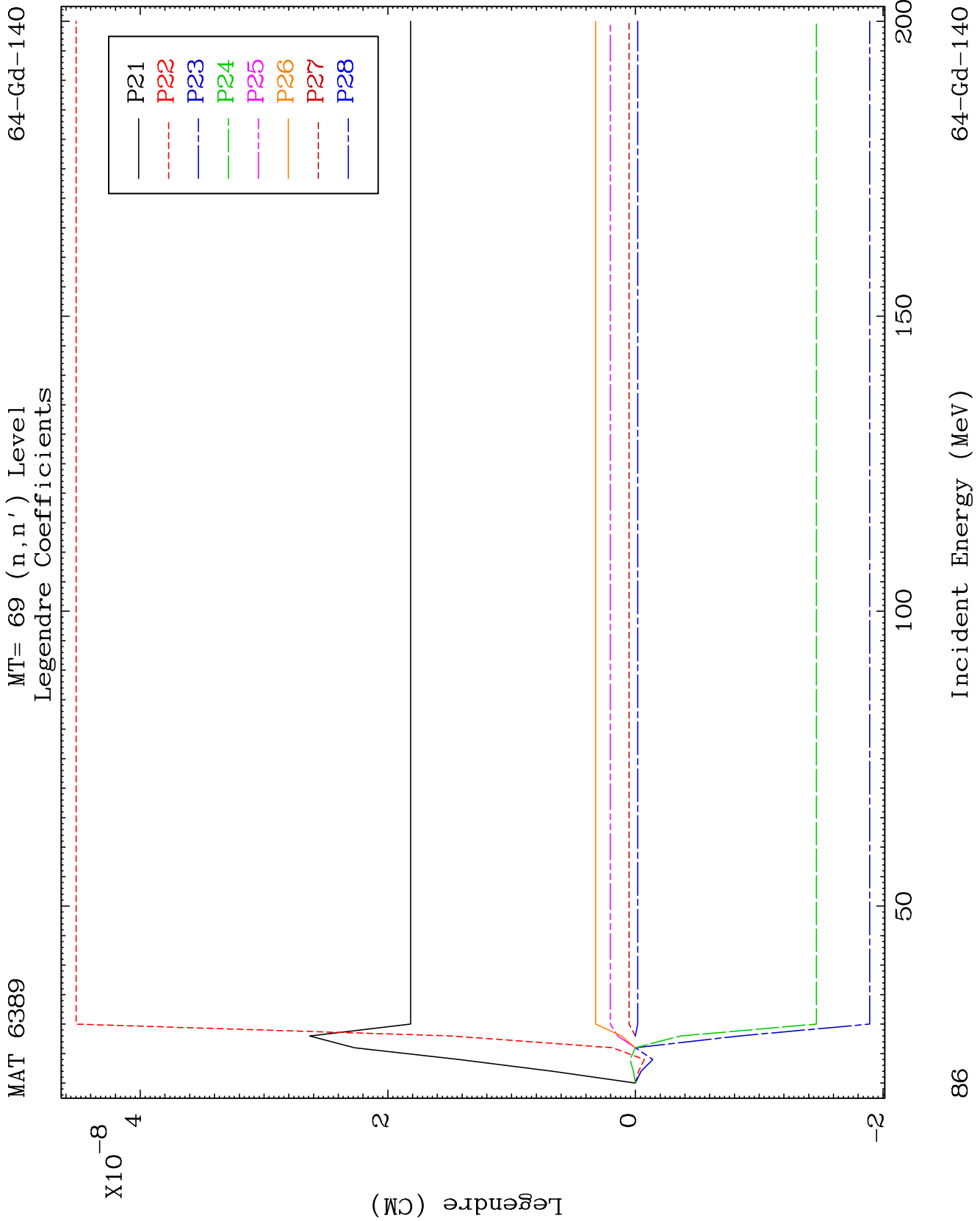
64-Gd-140



85

Incident Energy (MeV)

64-Gd-140

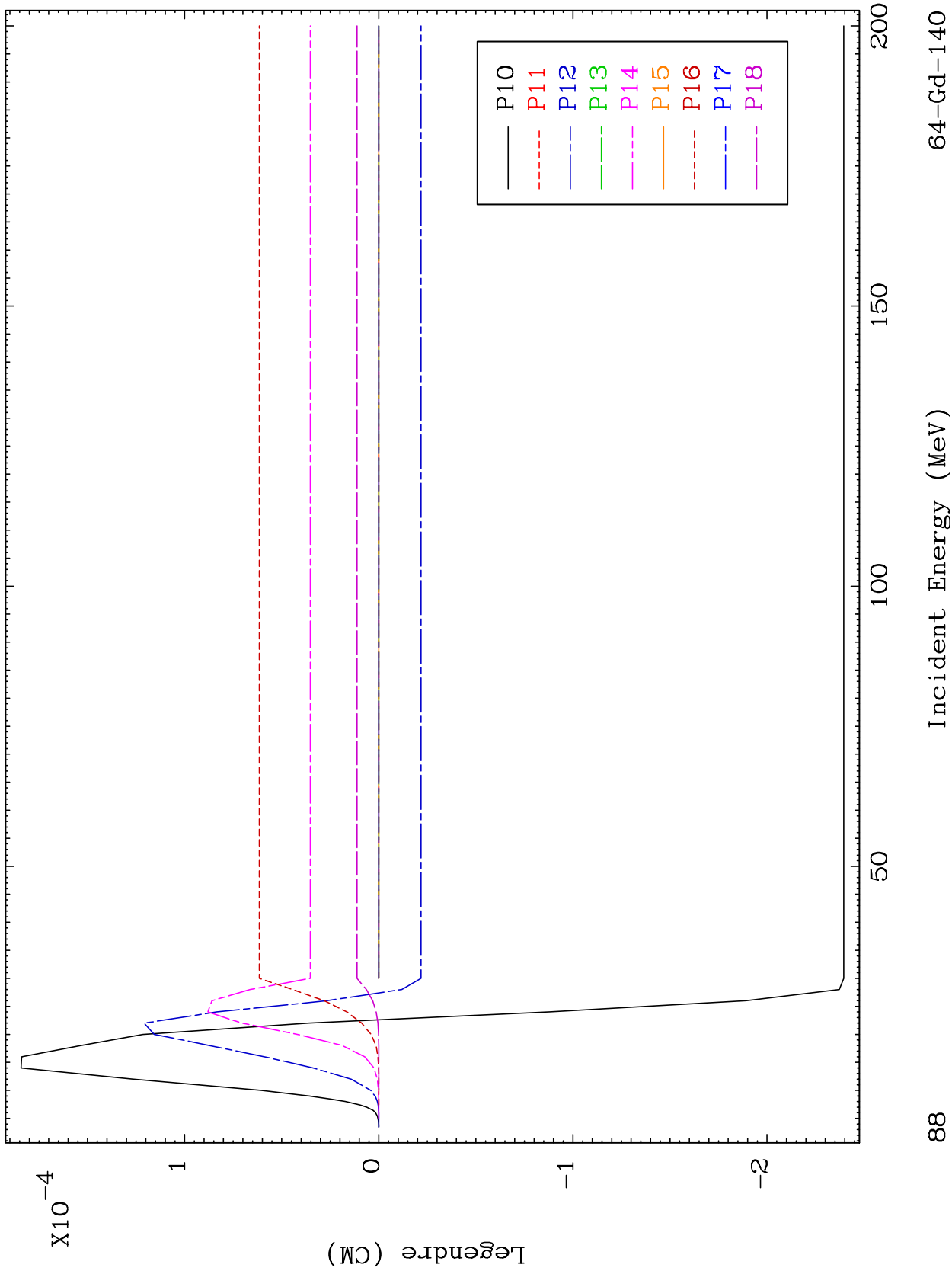


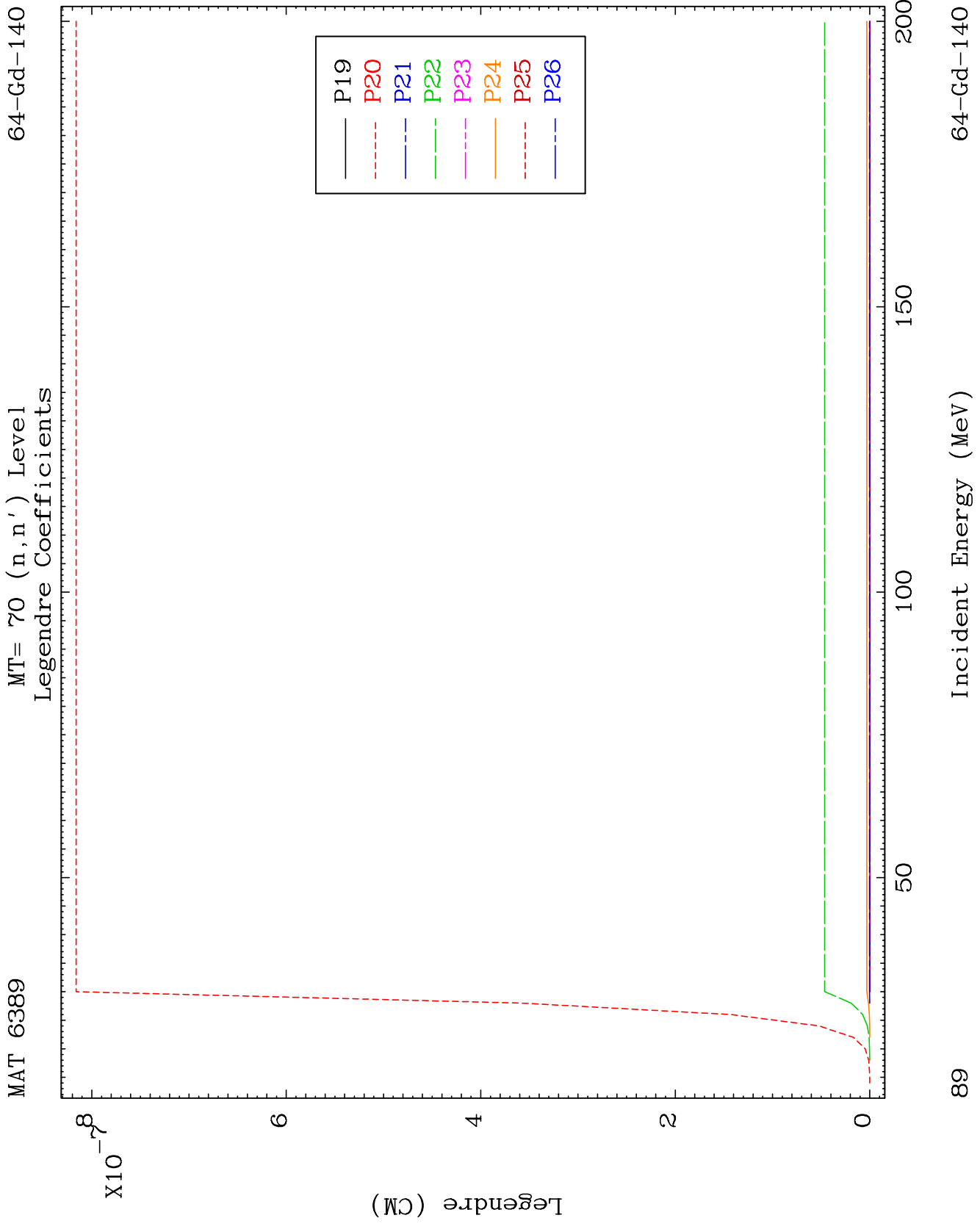


MAT 6389

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

64-Gd-140

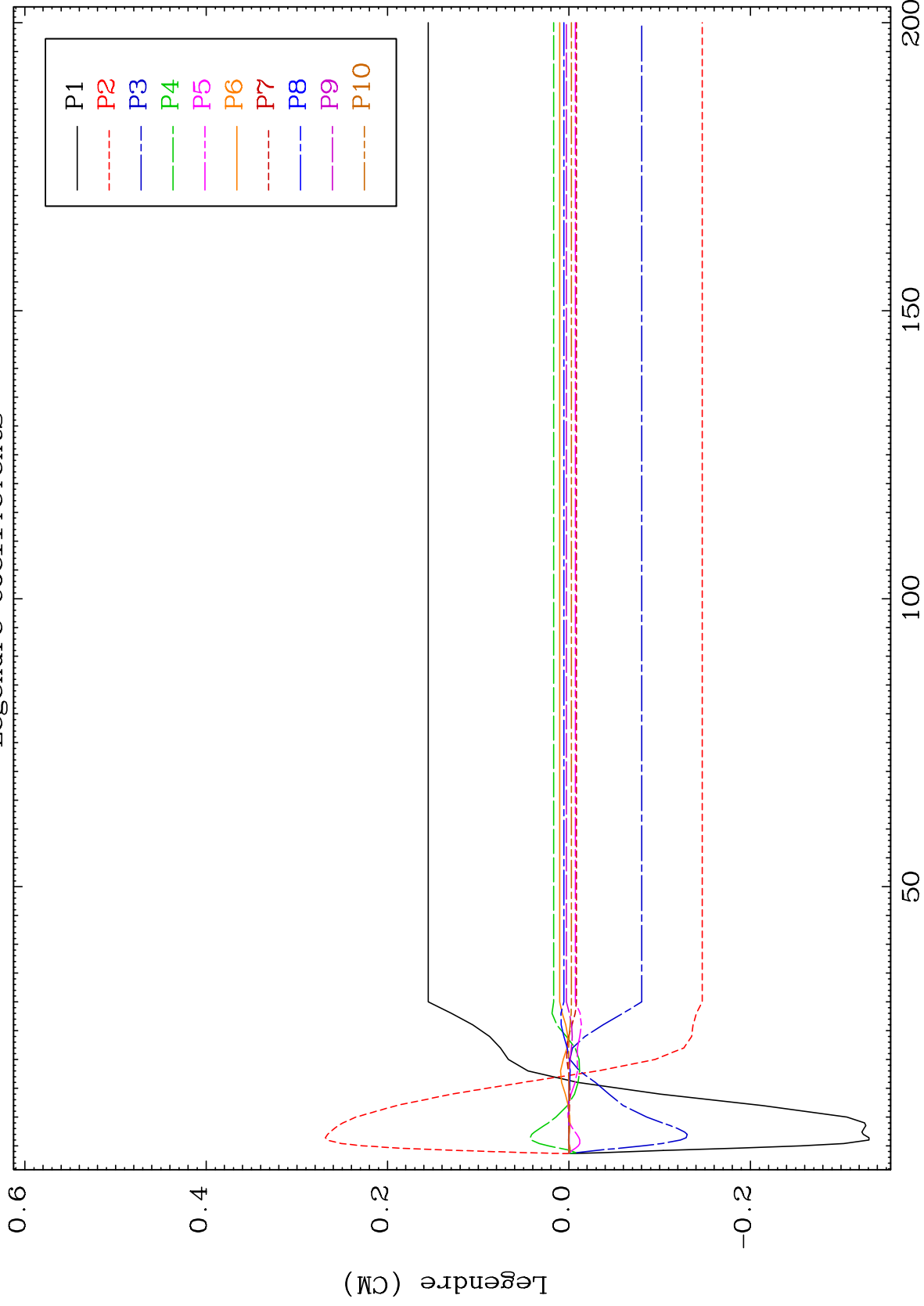




MAT 6389

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

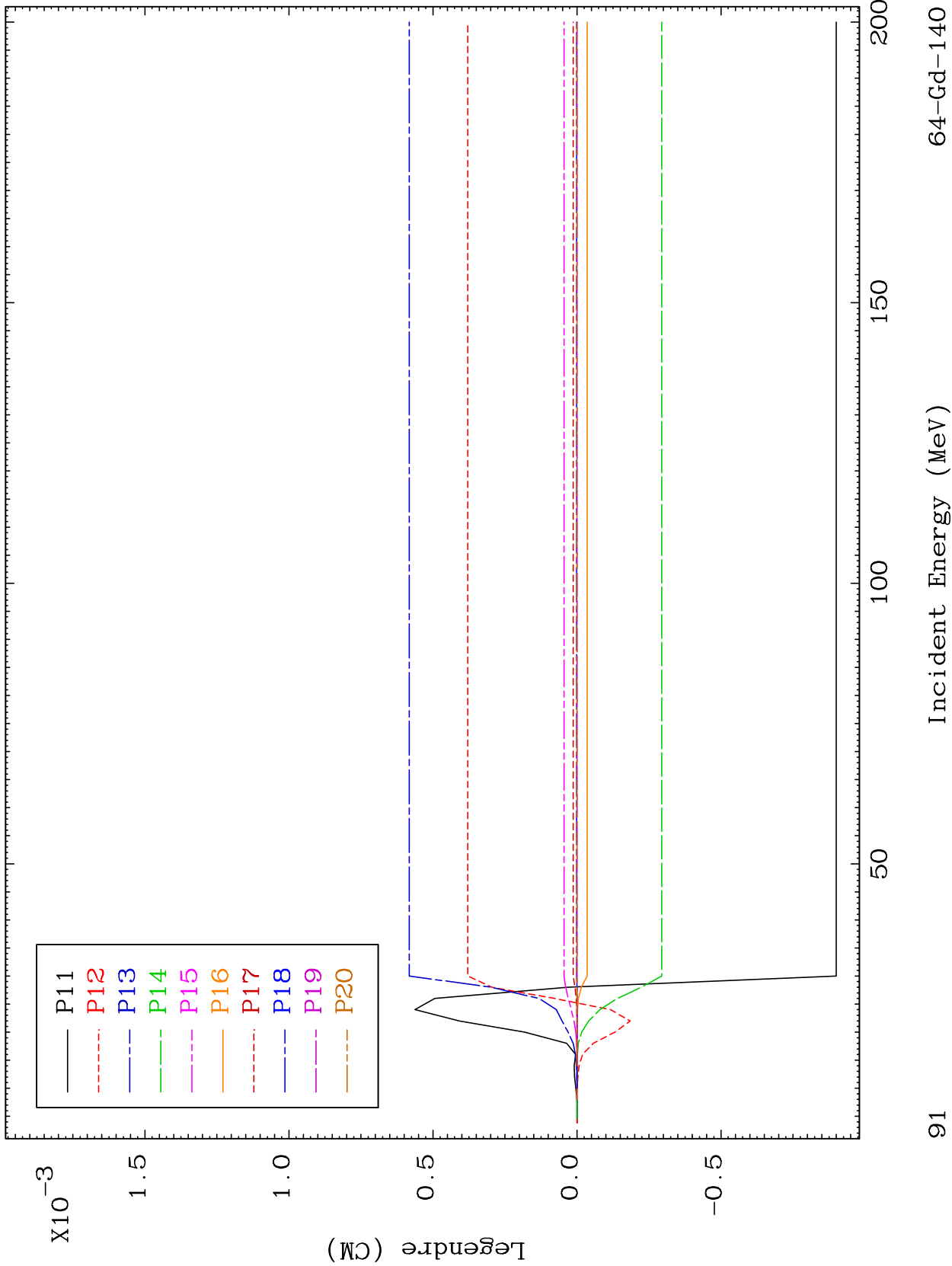
64-Gd-140



90

Incident Energy (MeV)

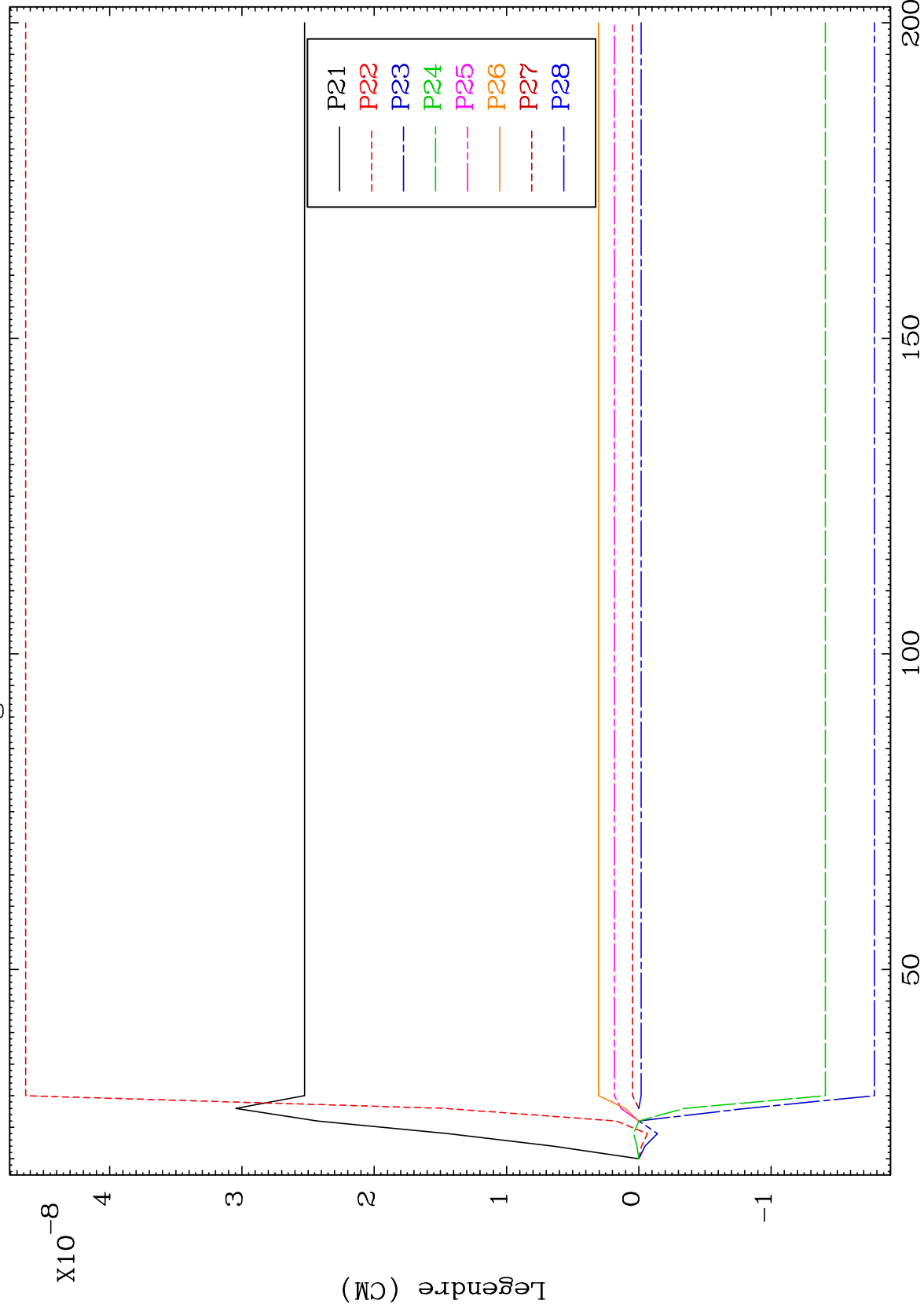
64-Gd-140



MAT 6389

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

64-Gd-140



92

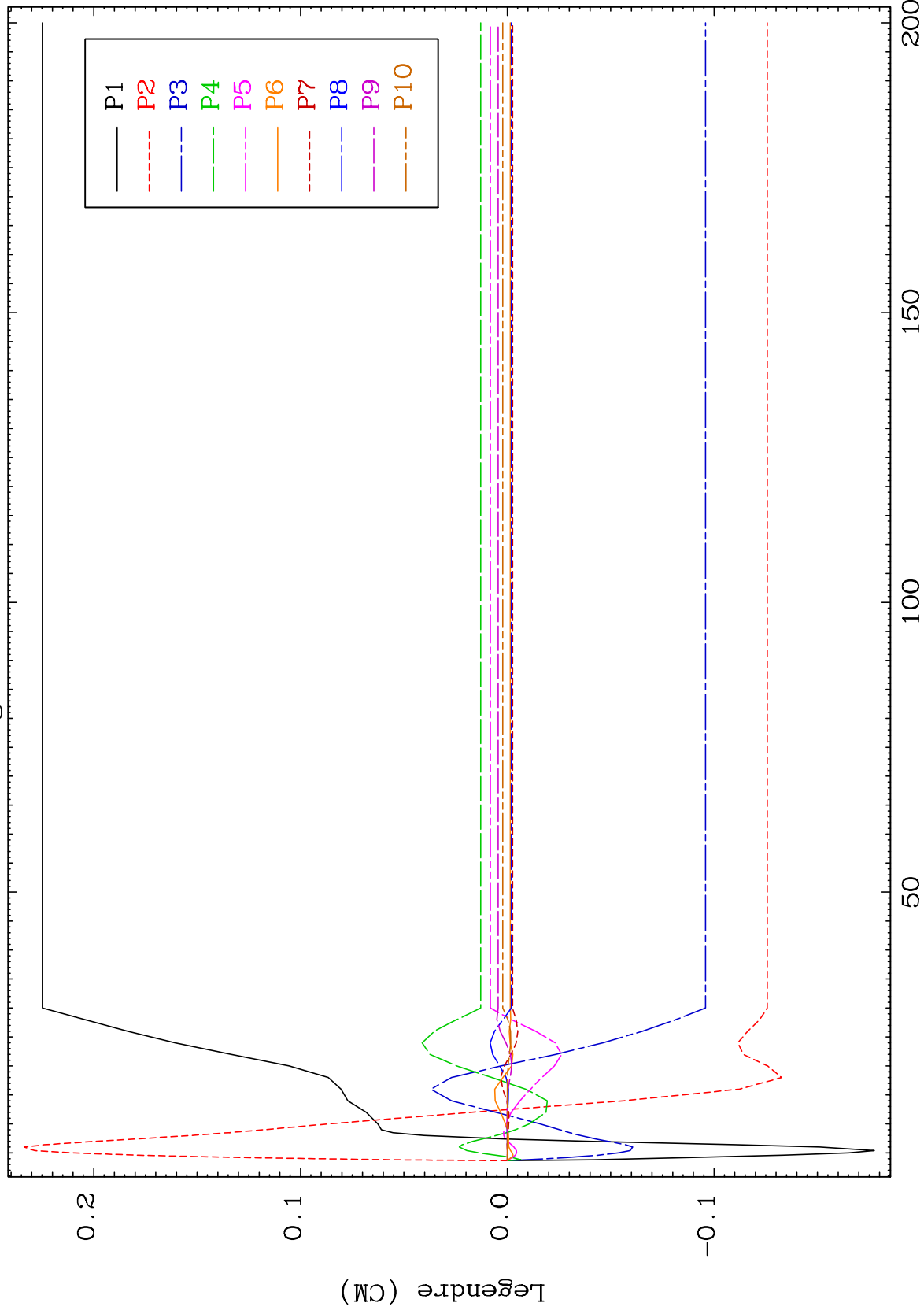
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

64-Gd-140



93

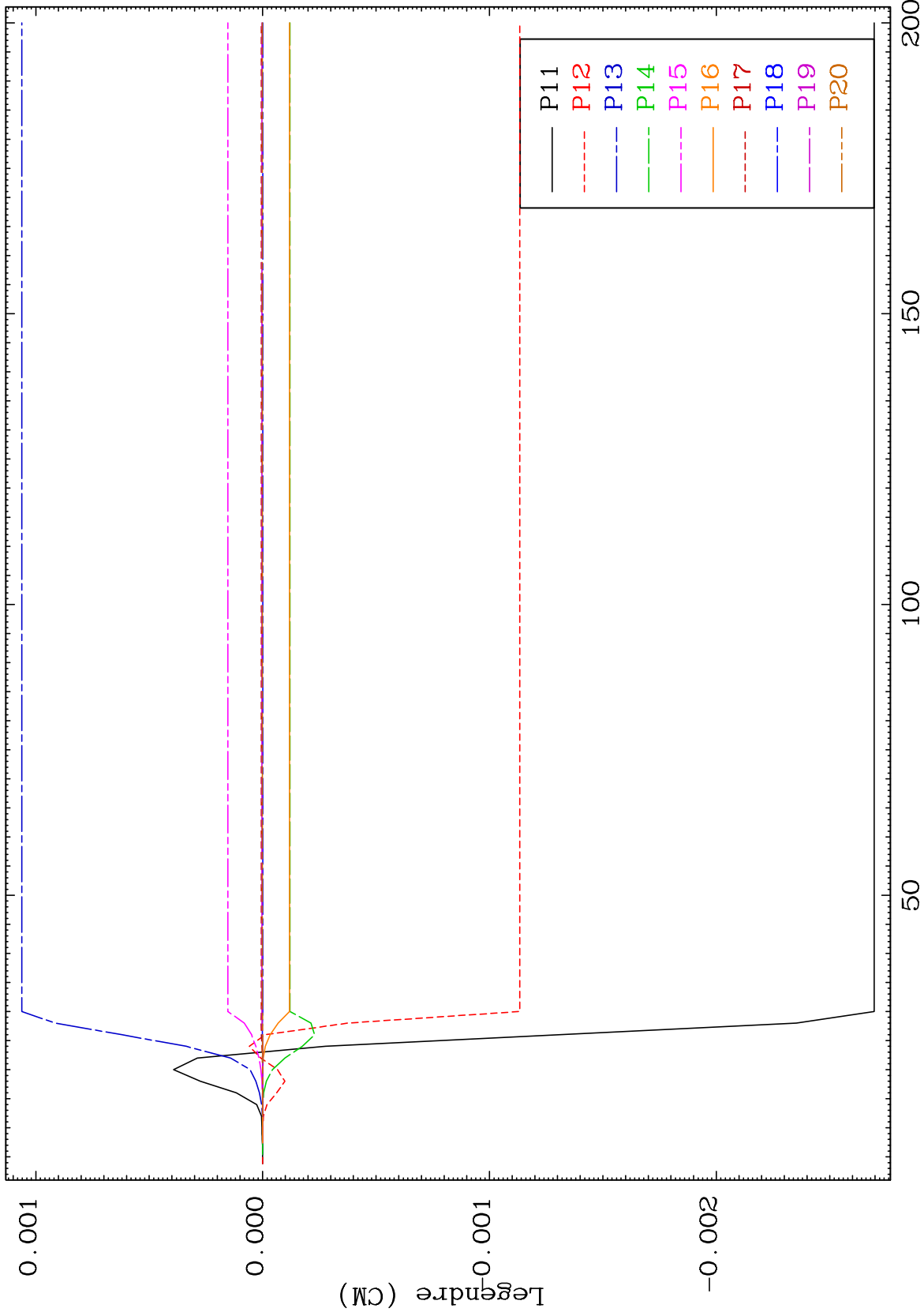
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

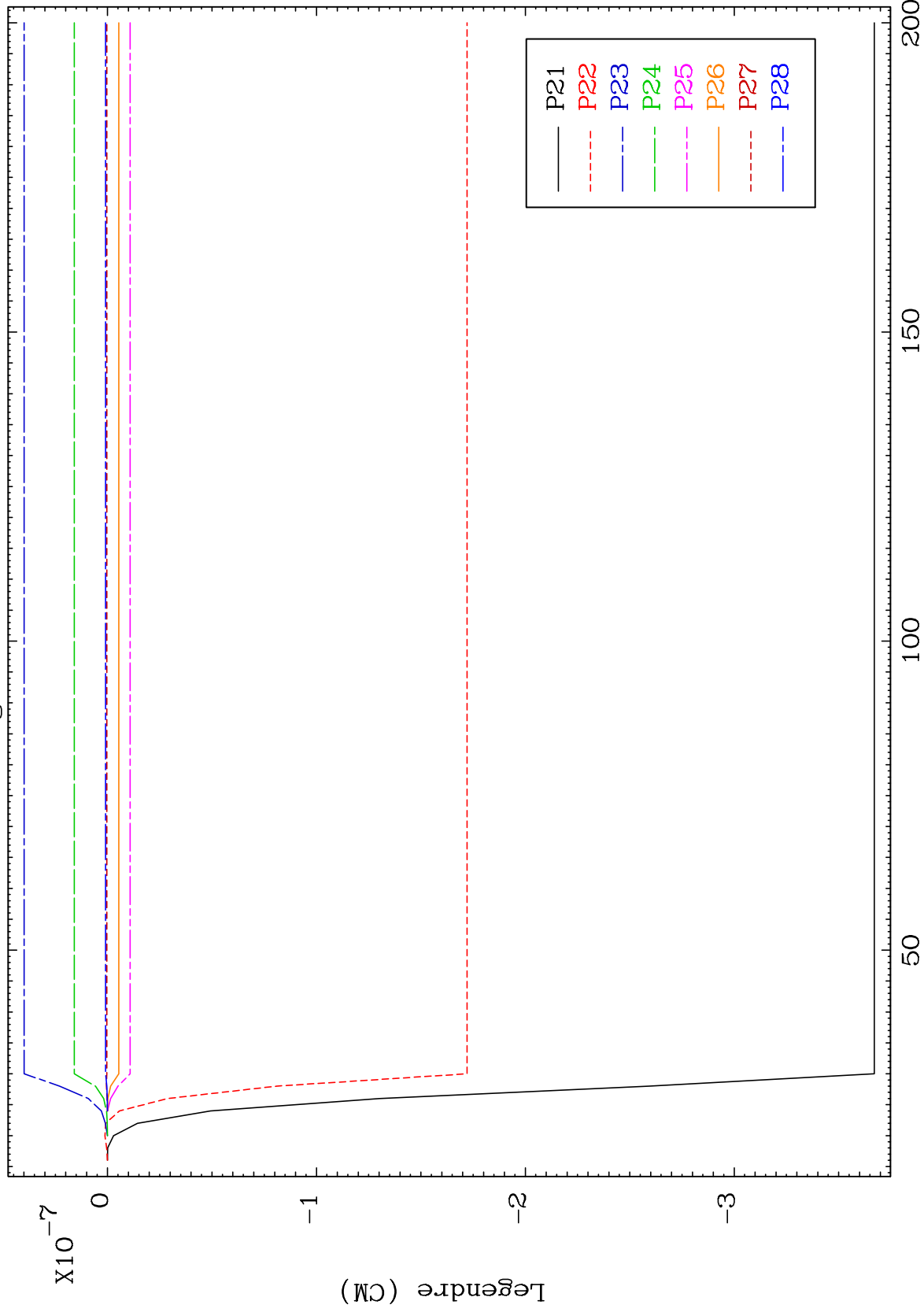
64-Gd-140



MAT 6389

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

64-Gd-140



95

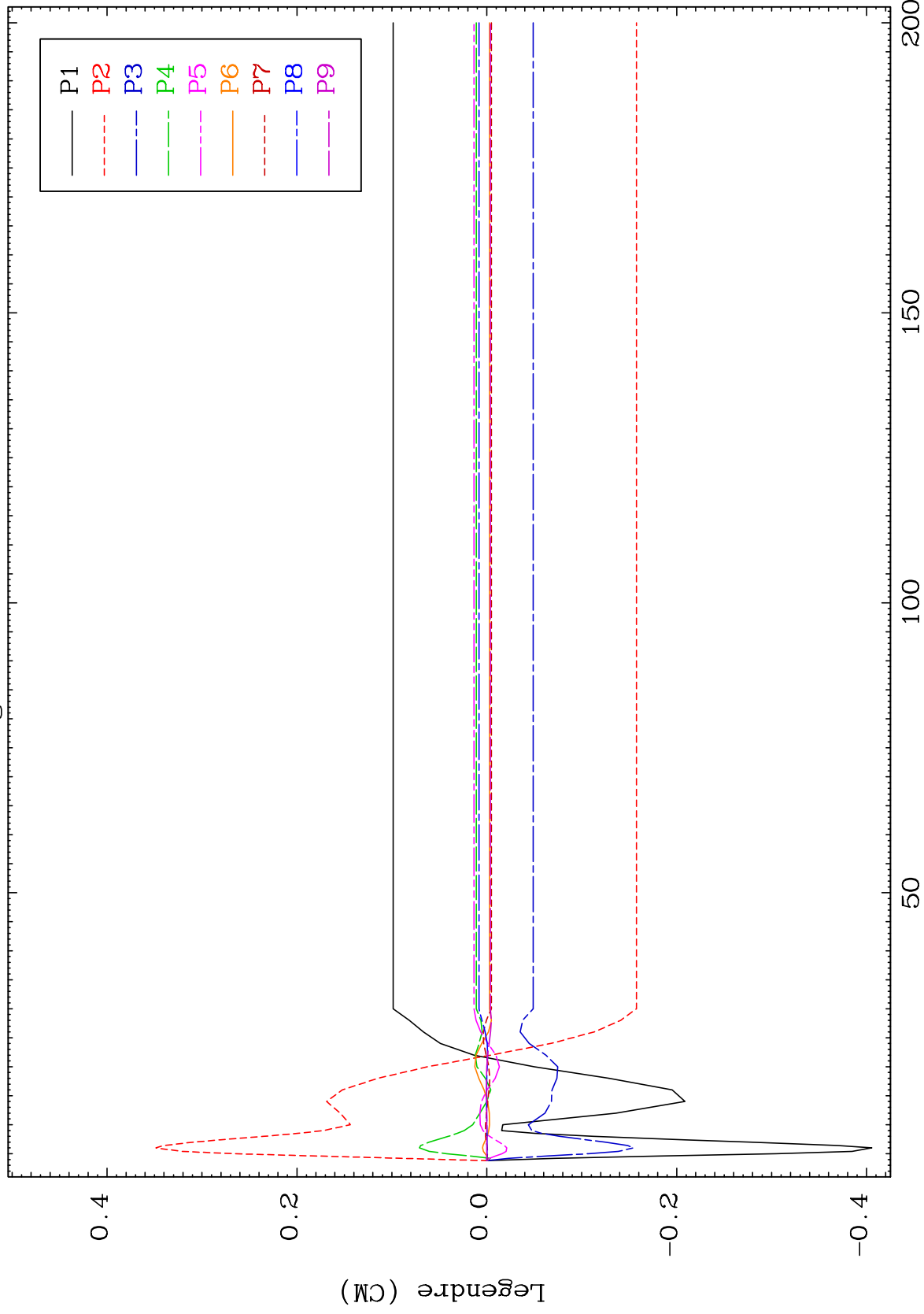
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

64-Gd-140



96

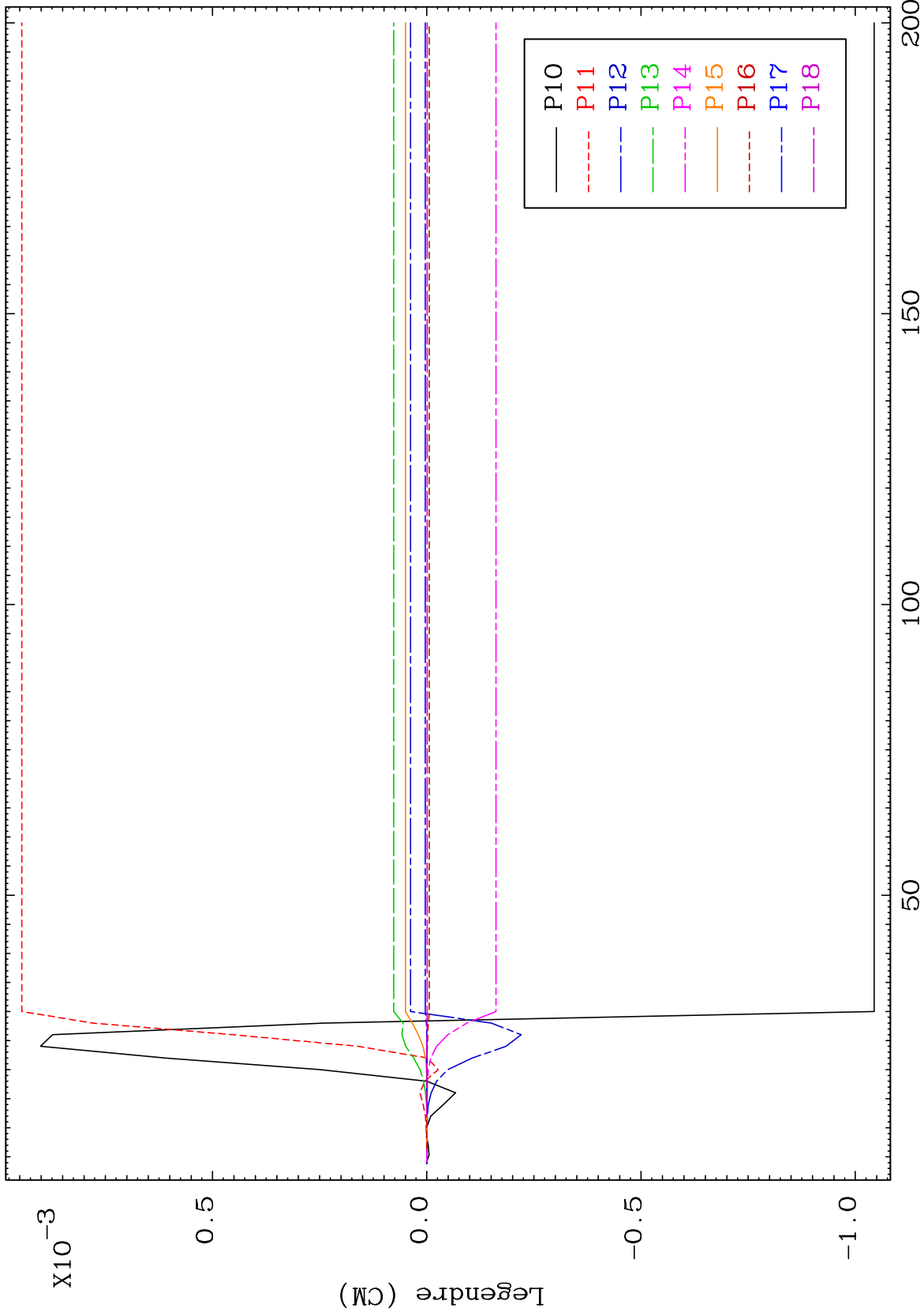
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

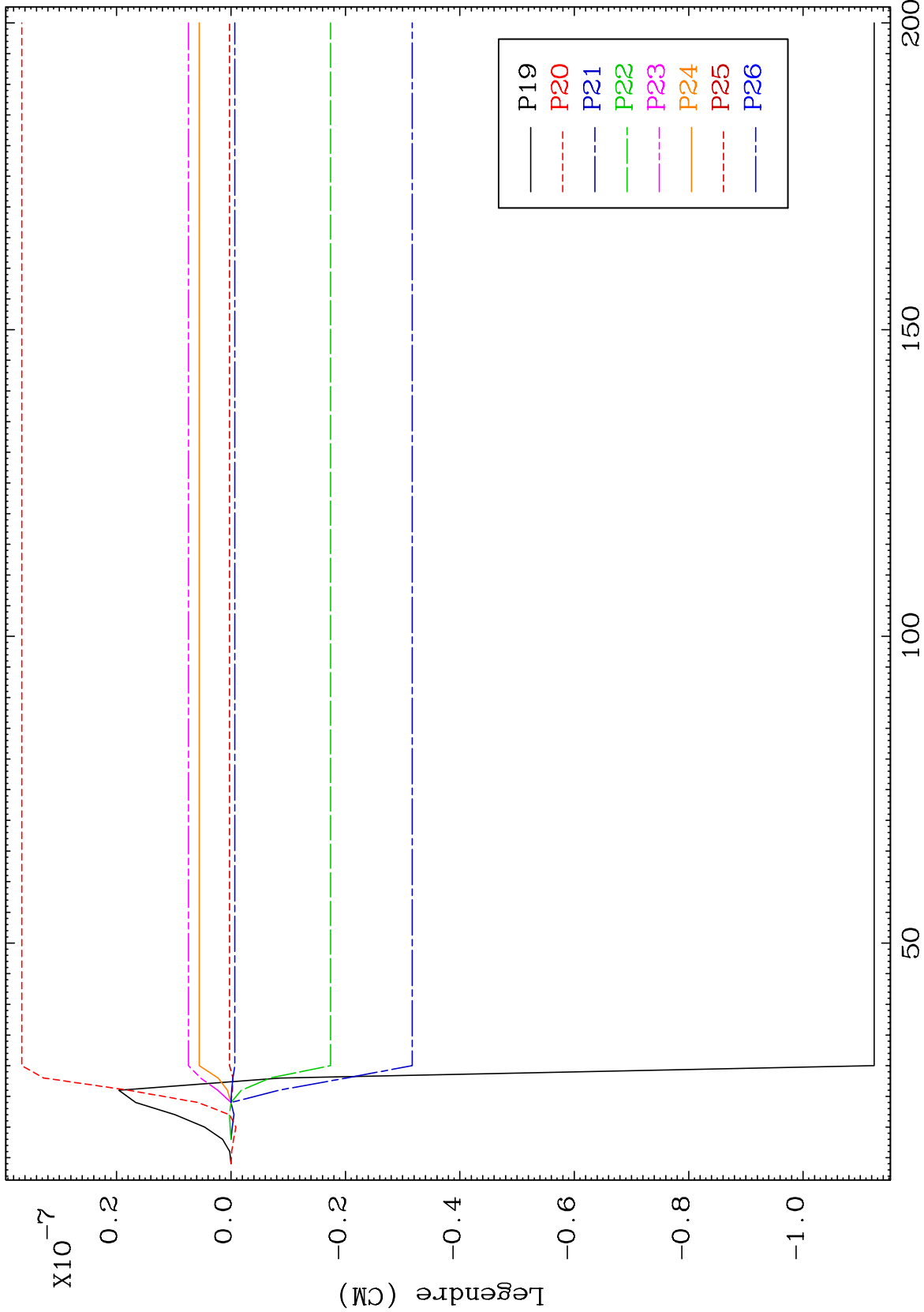
64-Gd-140



MAT 6389

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

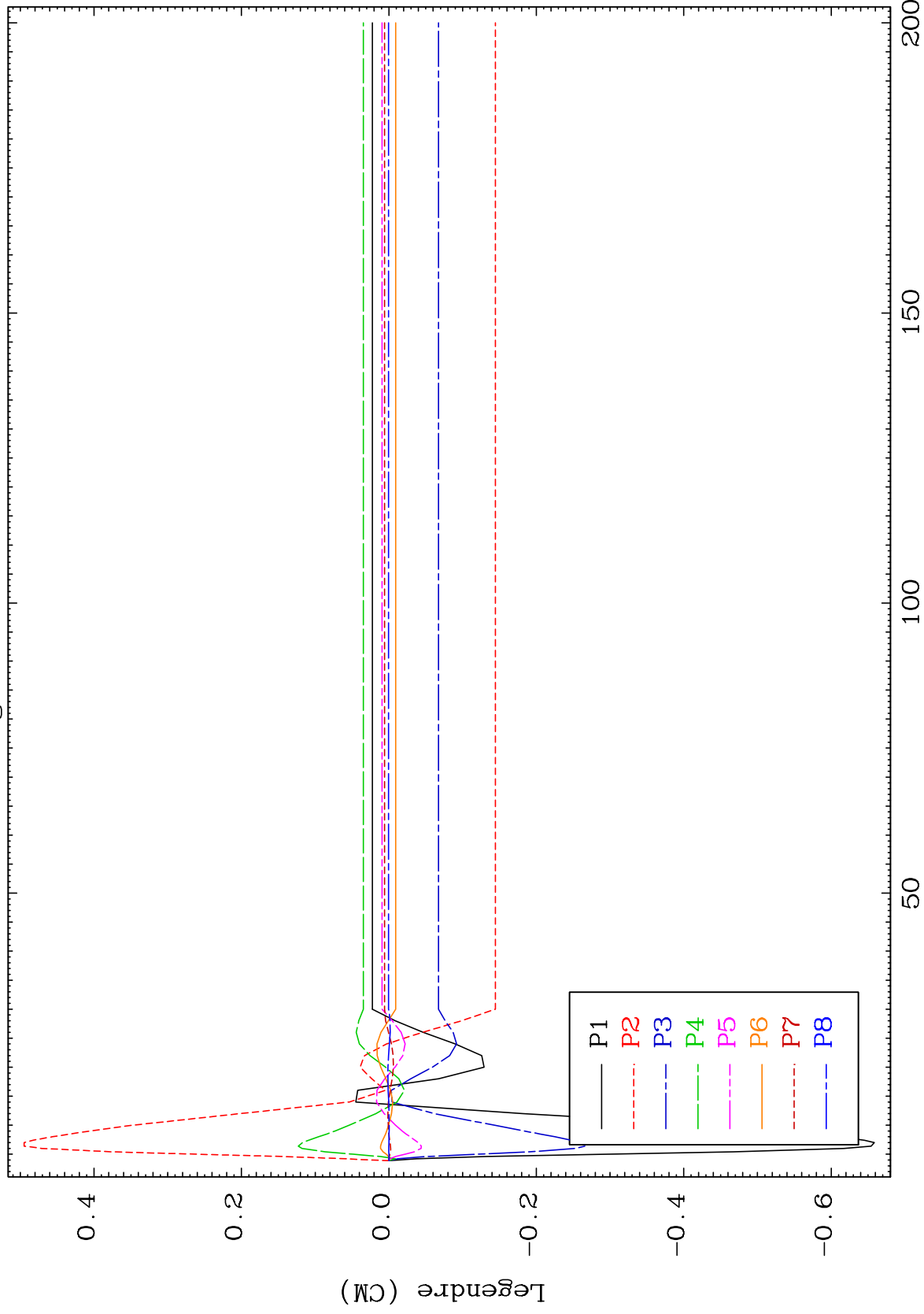
64-Gd-140



MAT 6389

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

64-Gd-140



99

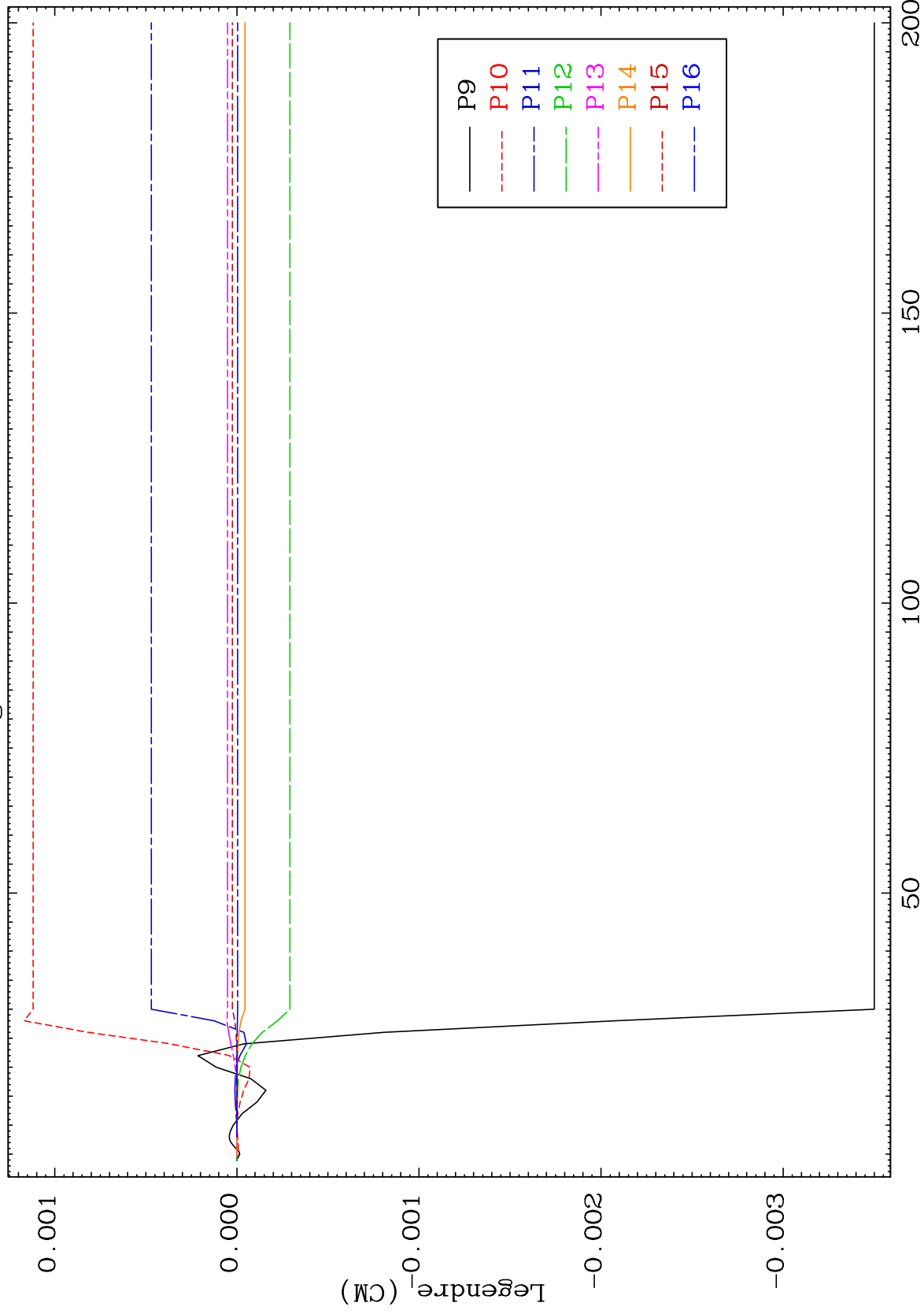
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

64-Gd-140



100

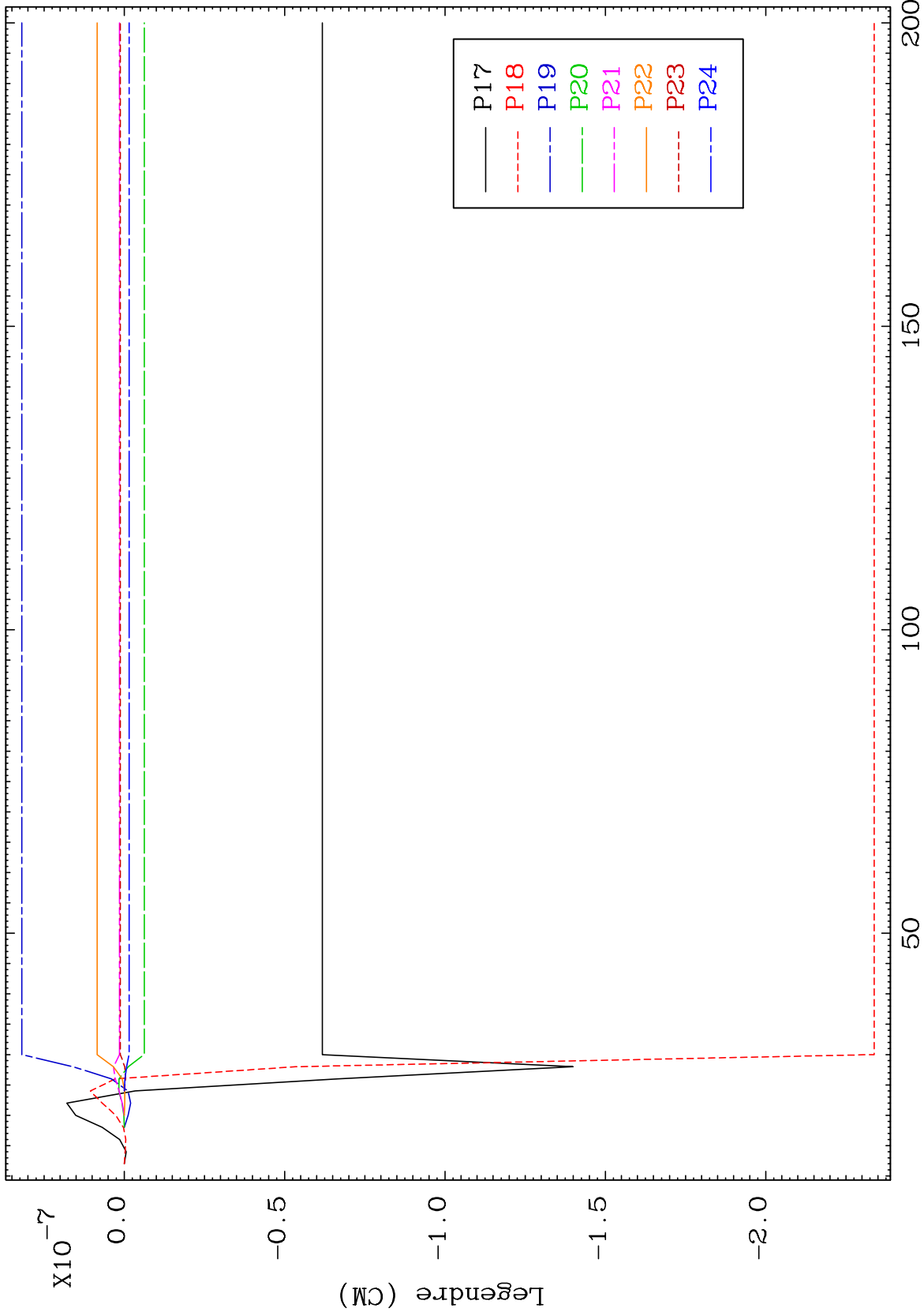
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

64-Gd-140



101

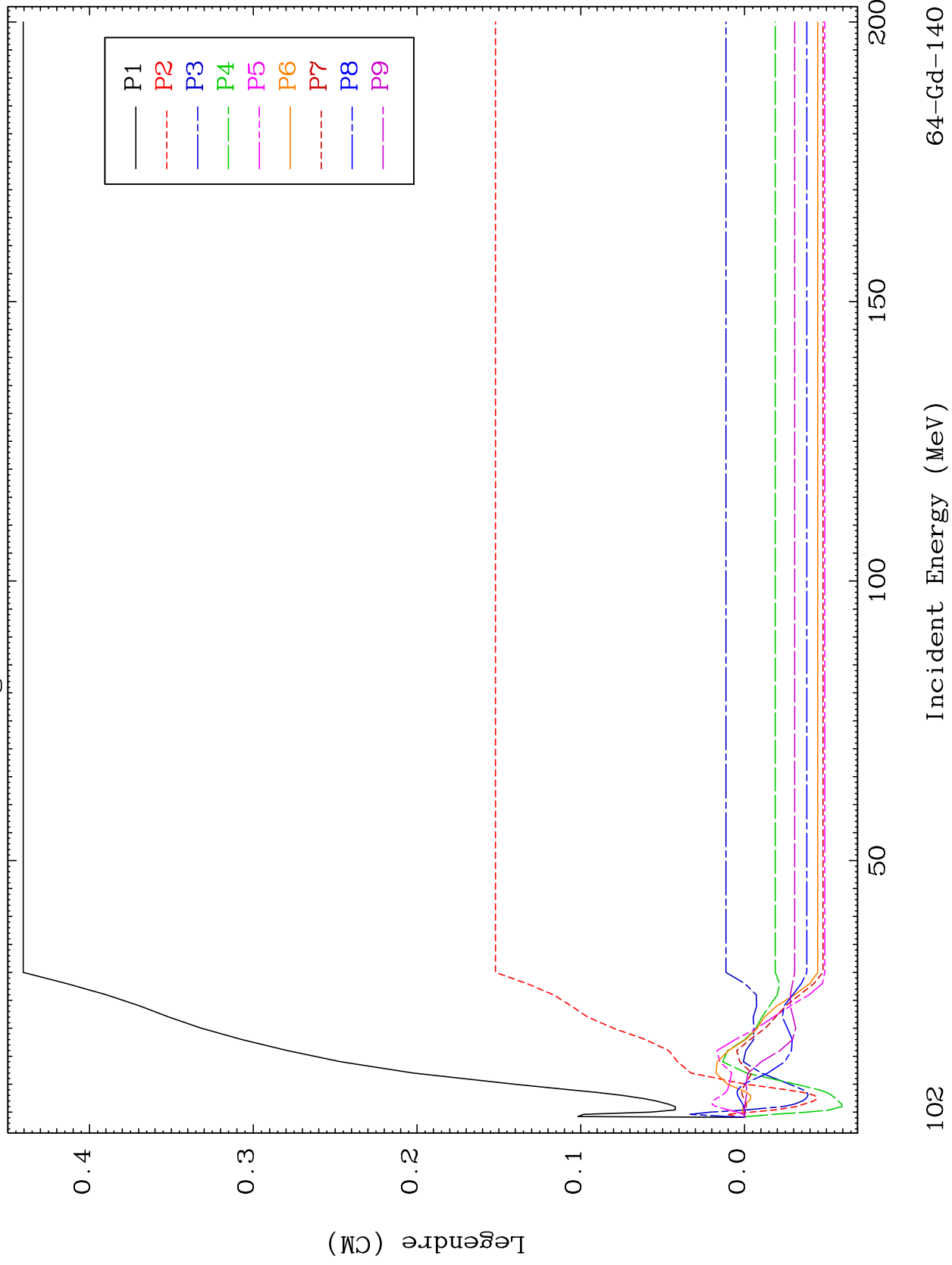
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

64-Gd-140



102

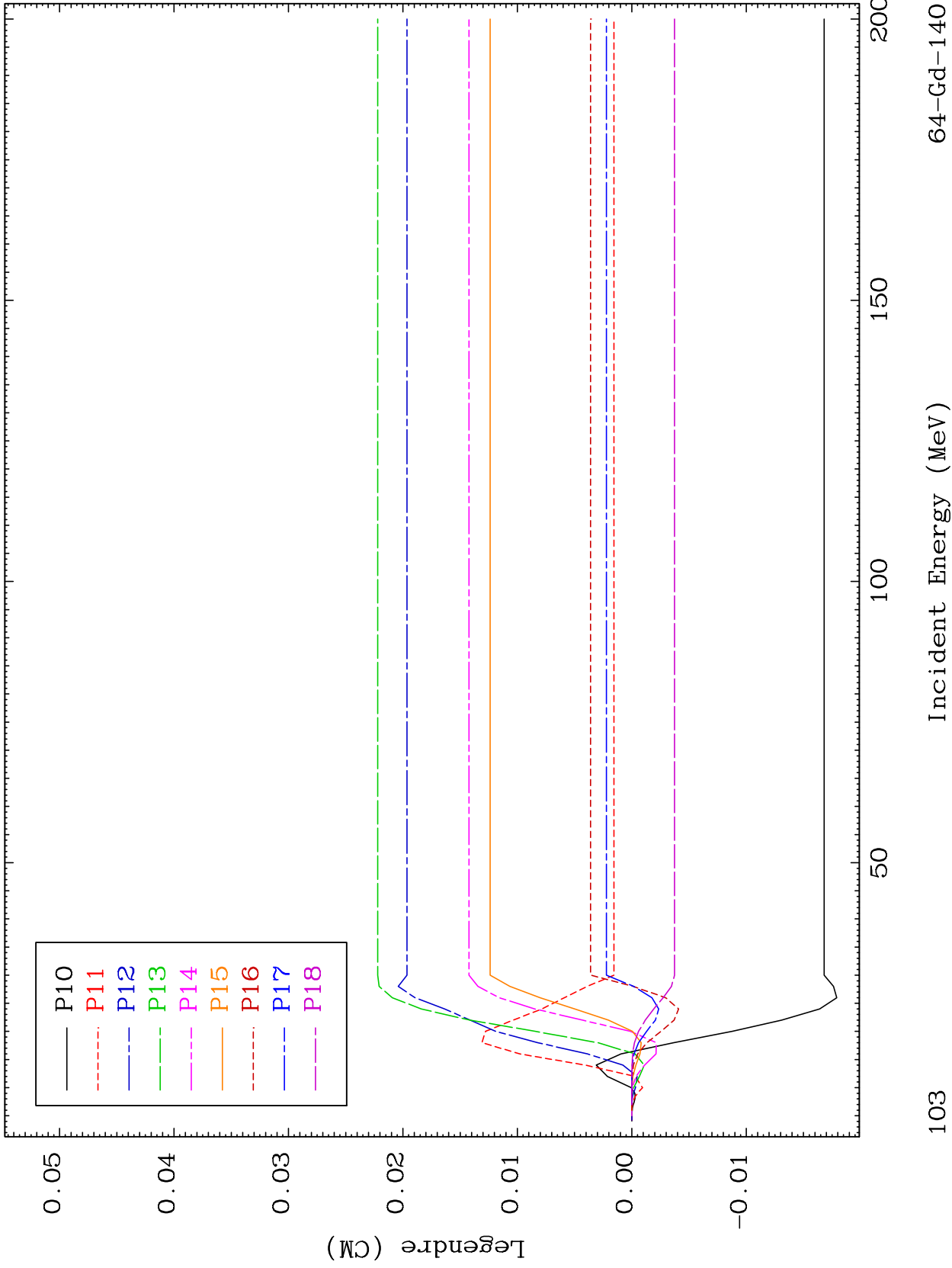
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

64-Gd-140



103

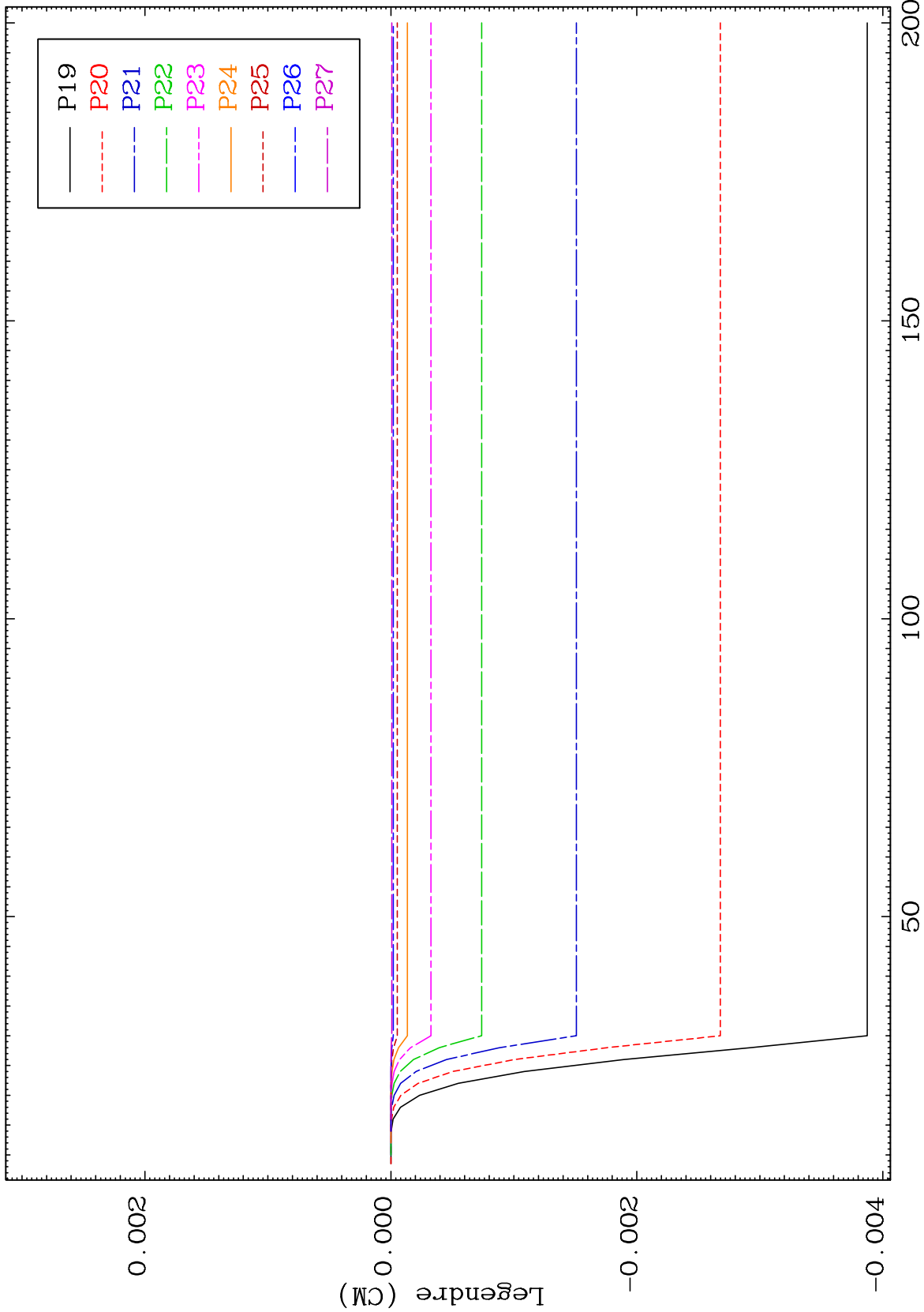
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

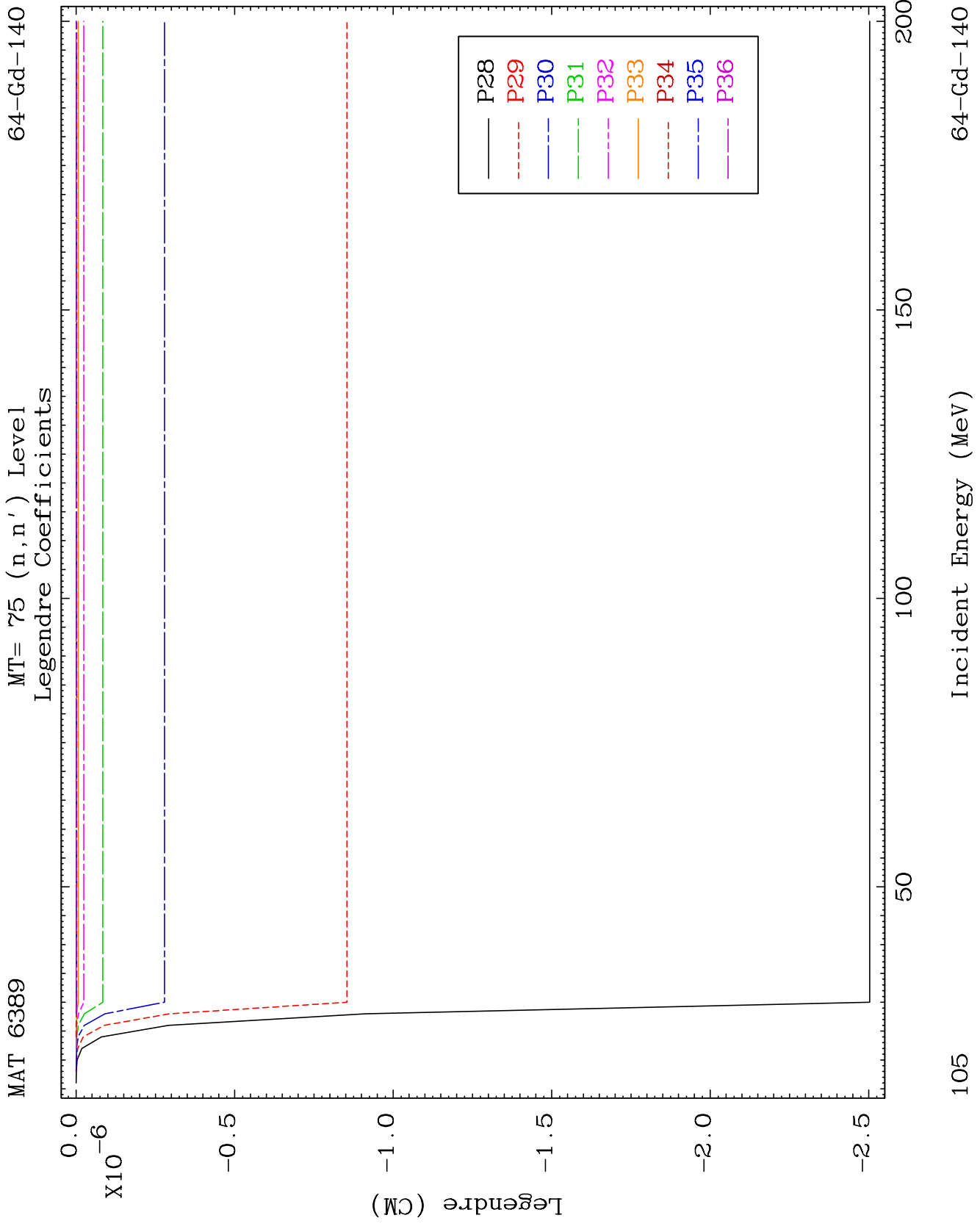
64-Gd-140



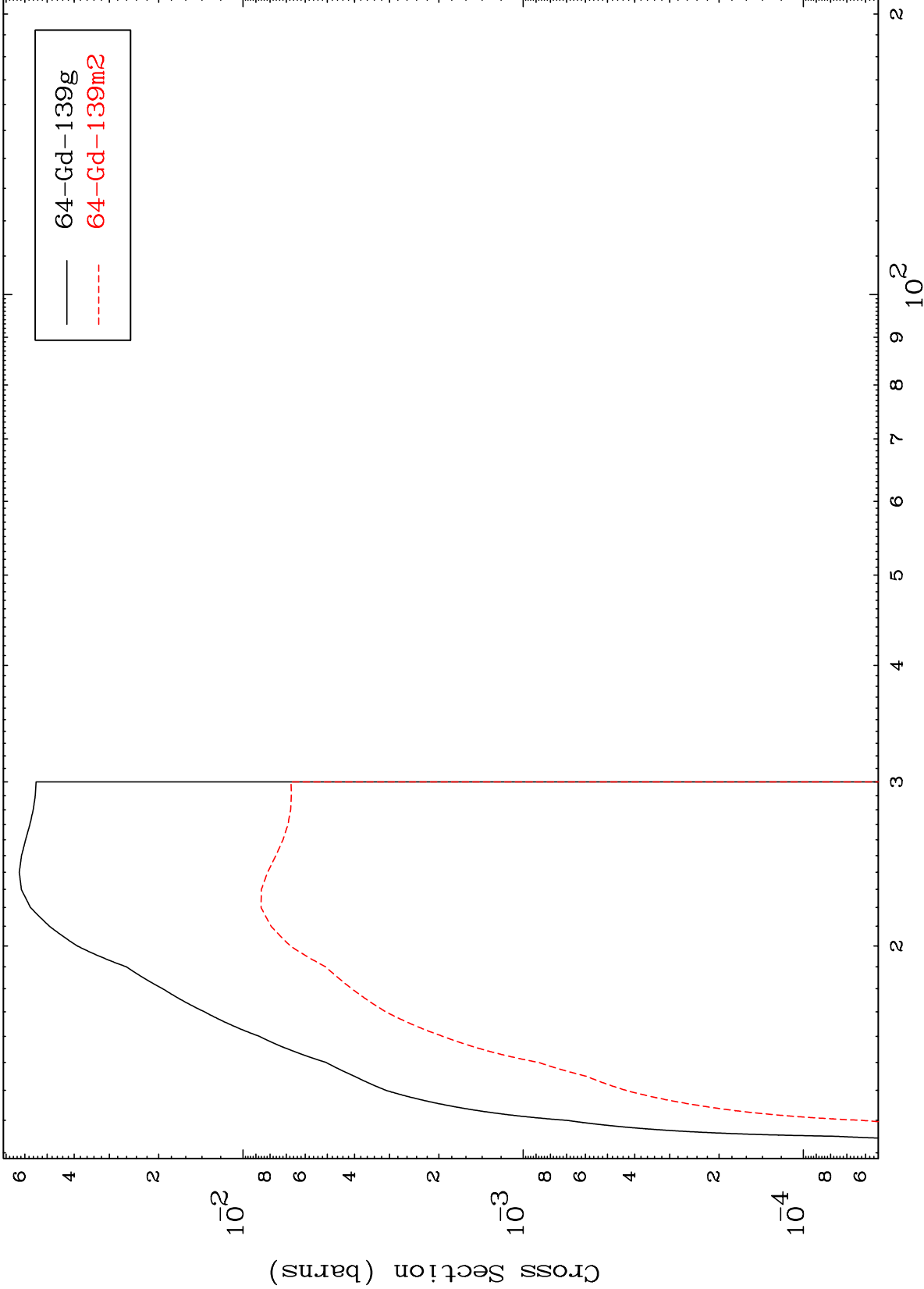
104

Incident Energy (MeV)

64-Gd-140



Radionuclide Production Cross Section

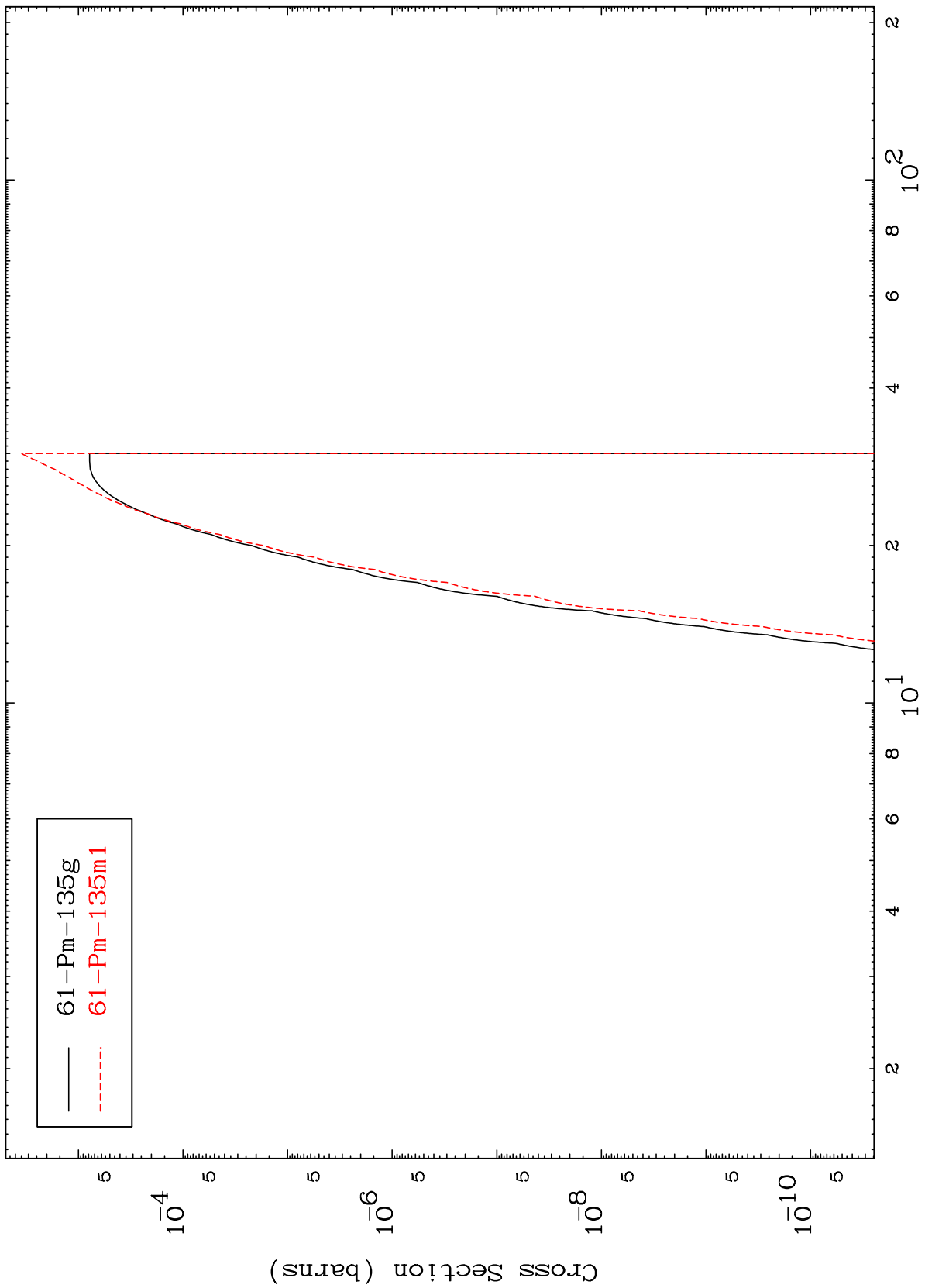


MAT 6389

(n,n') p  $\alpha$

64-Gd-140

Radionuclide Production Cross Section



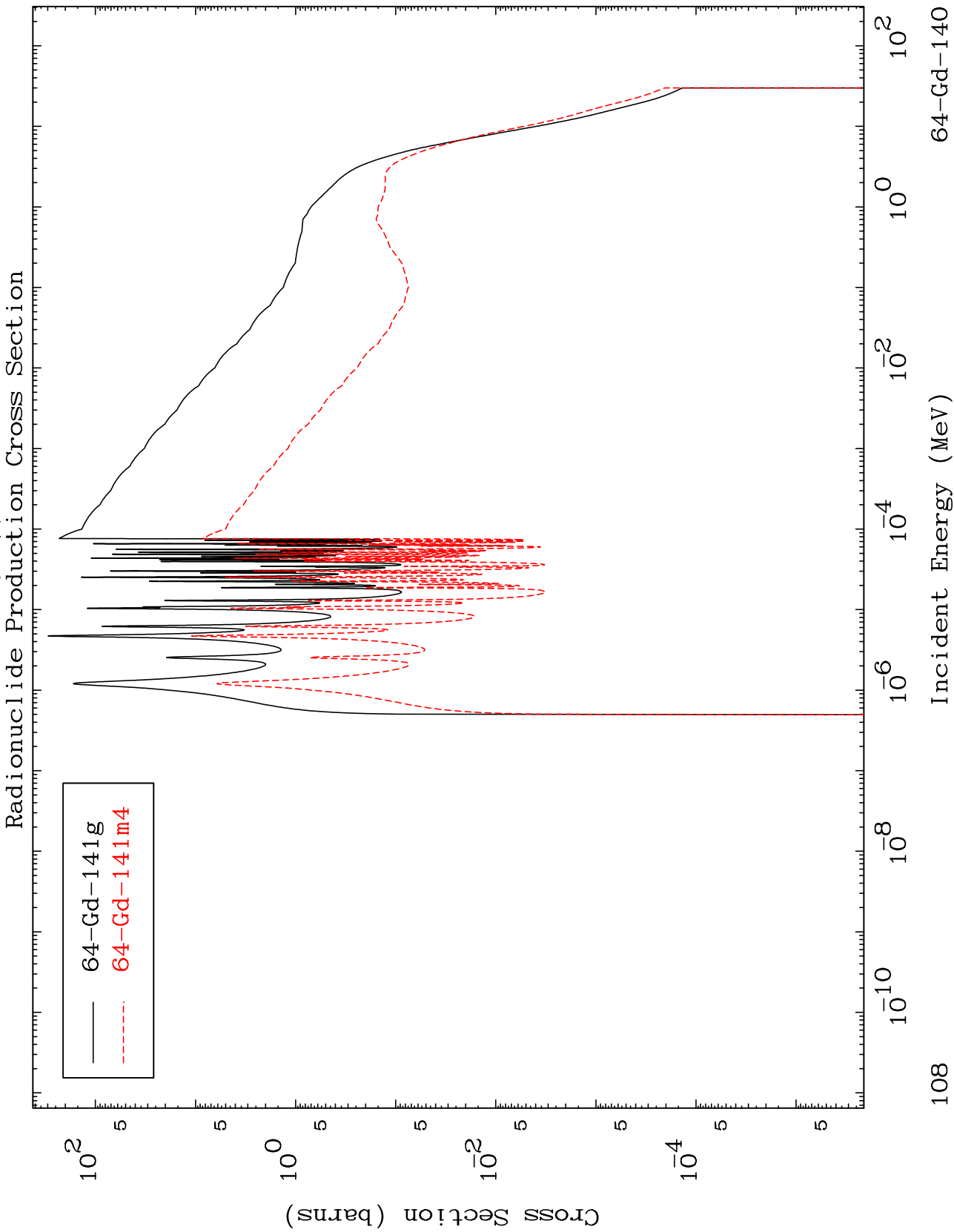
107

Incident Energy (MeV)

64-Gd-140

MAT 6389

64-Gd-140

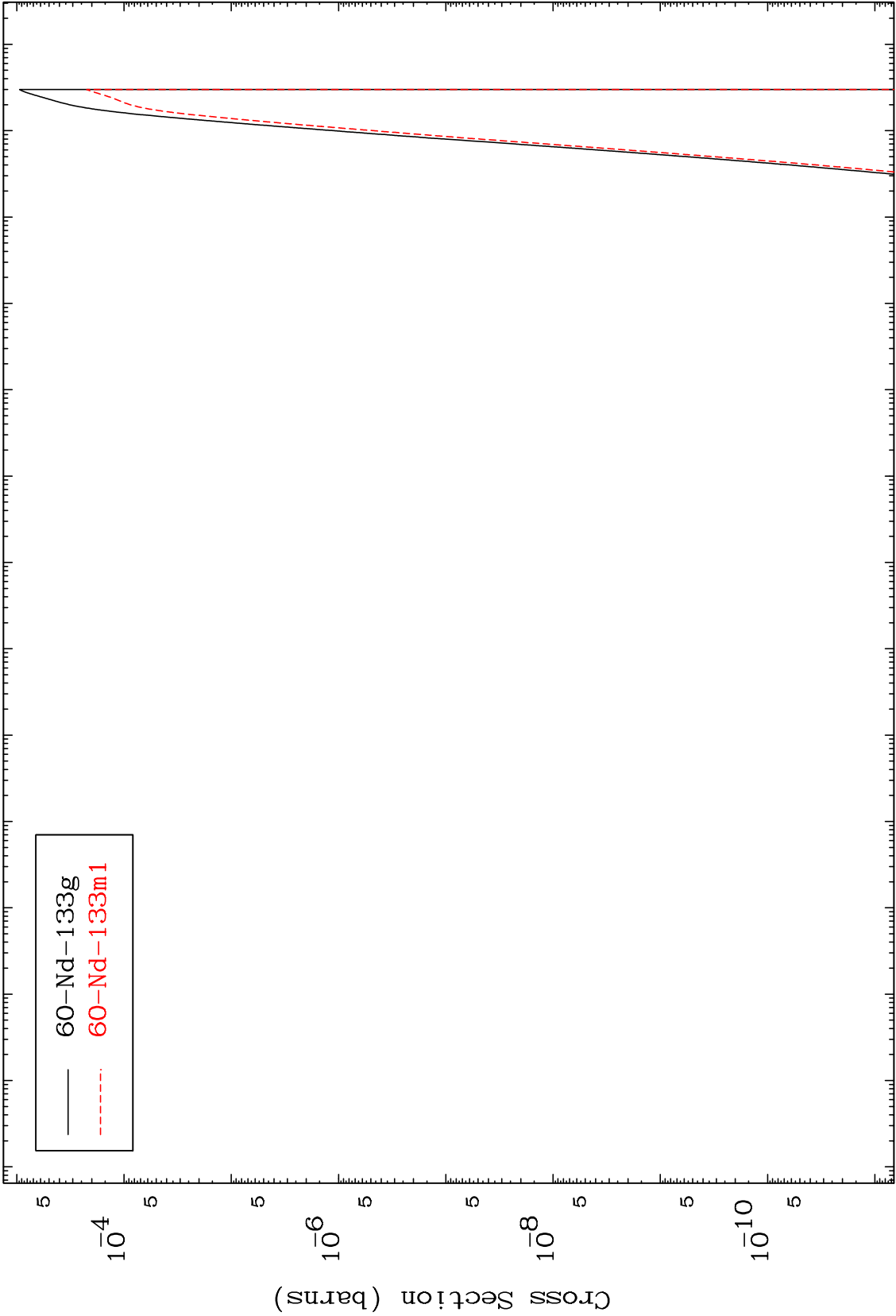
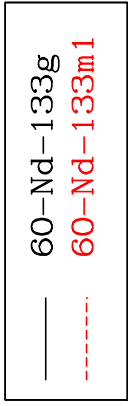


MAT 6389

(n,2α)

64-Gd-140

Radionuclide Production Cross Section



64-Gd-140

10<sup>-2</sup>

10<sup>-4</sup>

10<sup>-6</sup>

10<sup>-8</sup>

10<sup>-10</sup>

10<sup>0</sup>

10<sup>2</sup>

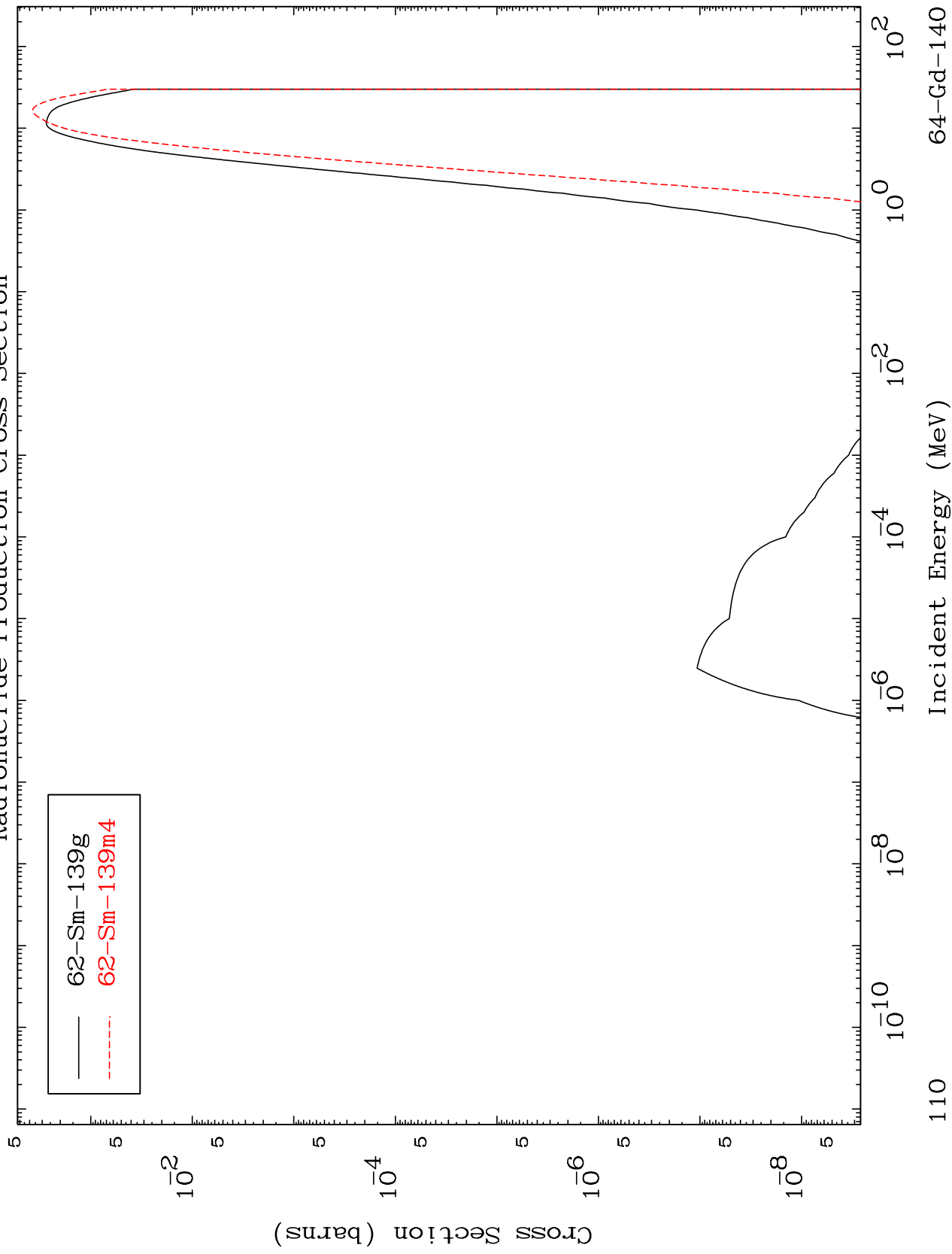
Incident Energy (MeV)

109

MAT 6389

64-Gd-140

(n,2p)  
Radionuclide Production Cross Section



110

Incident Energy (MeV)

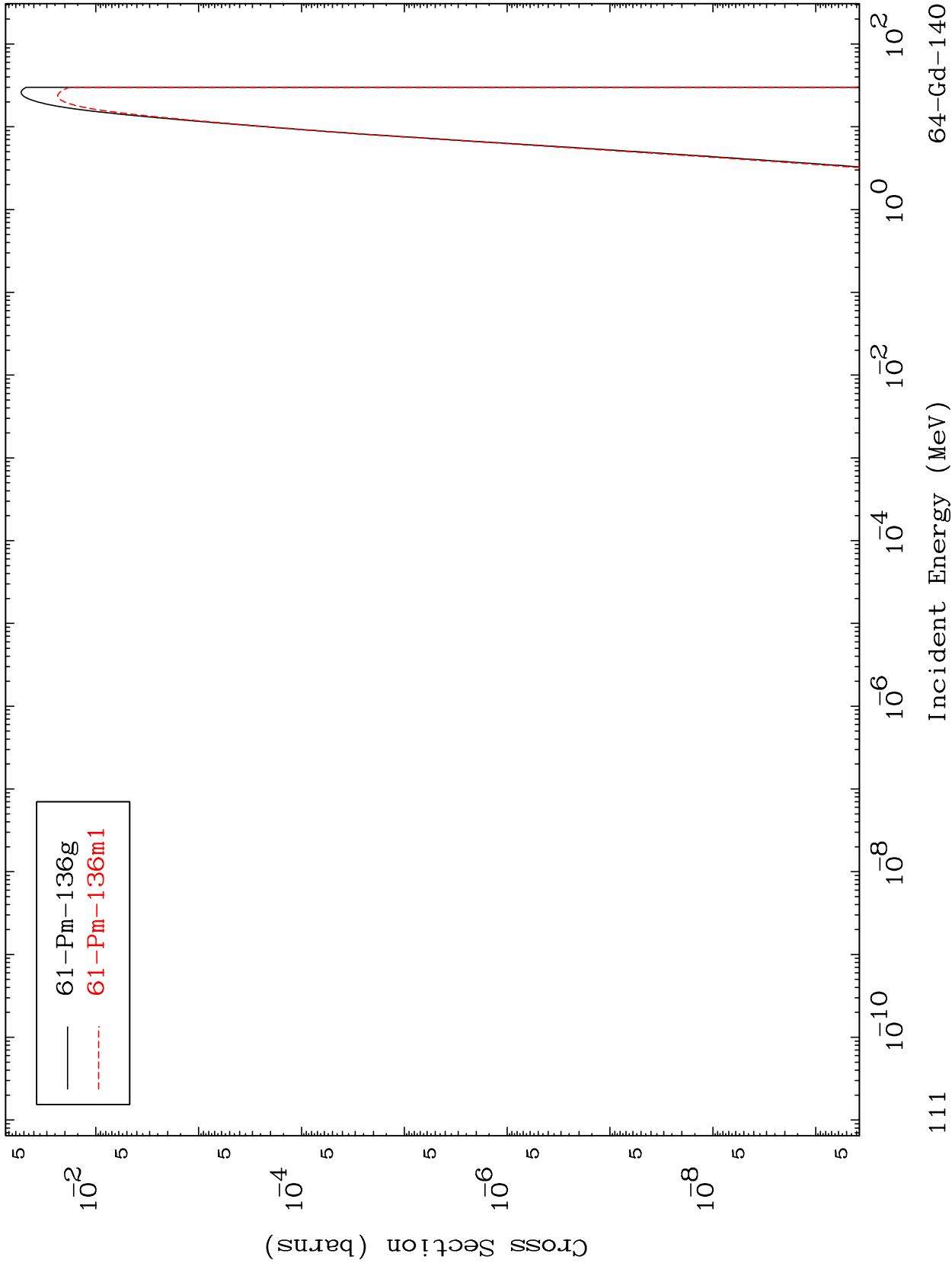
64-Gd-140

MAT 6389

(n,p)  $\alpha$

64-Gd-140

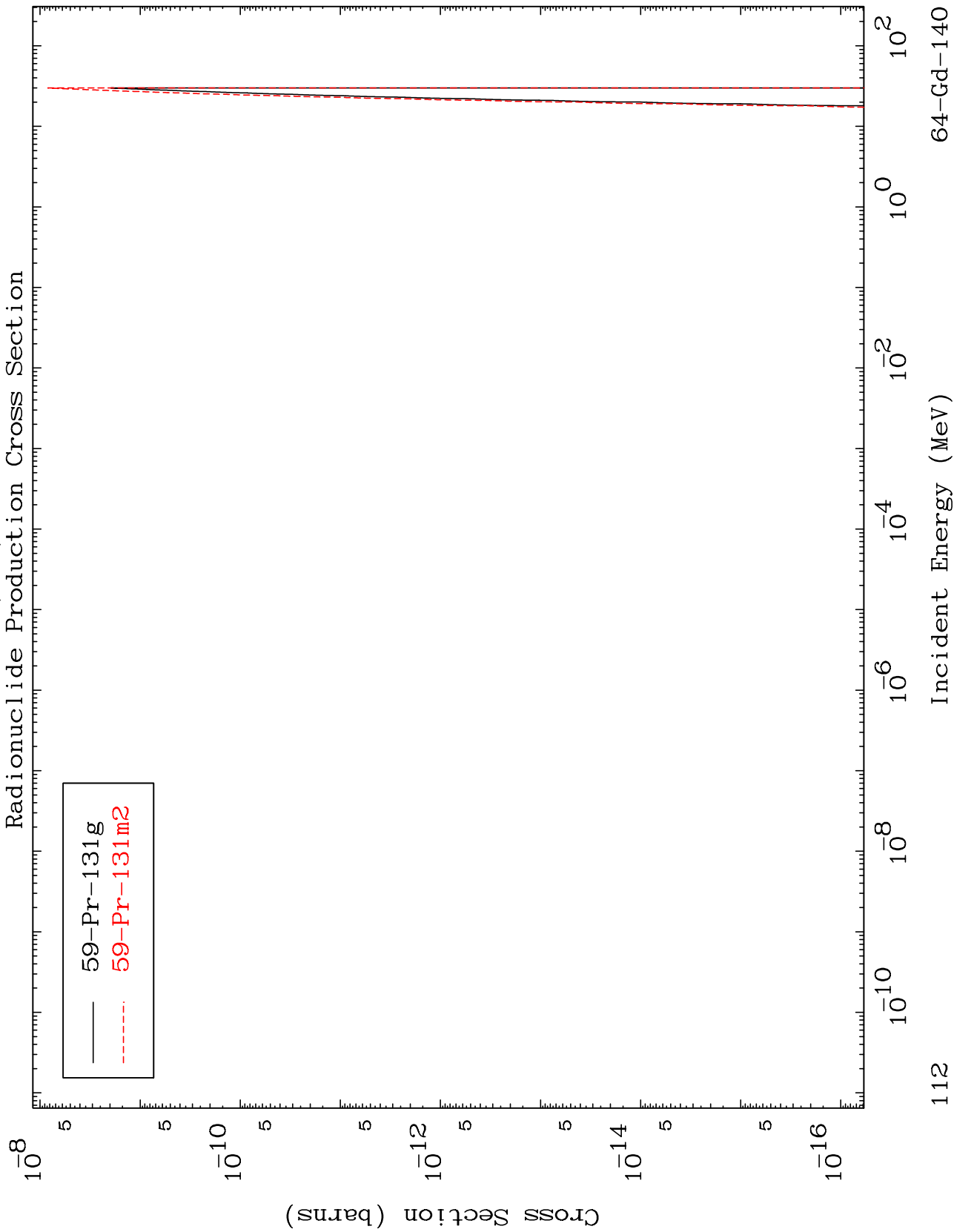
Radionuclide Production Cross Section



MAT 6389

(n,d) 2 $\alpha$

64-Gd-140

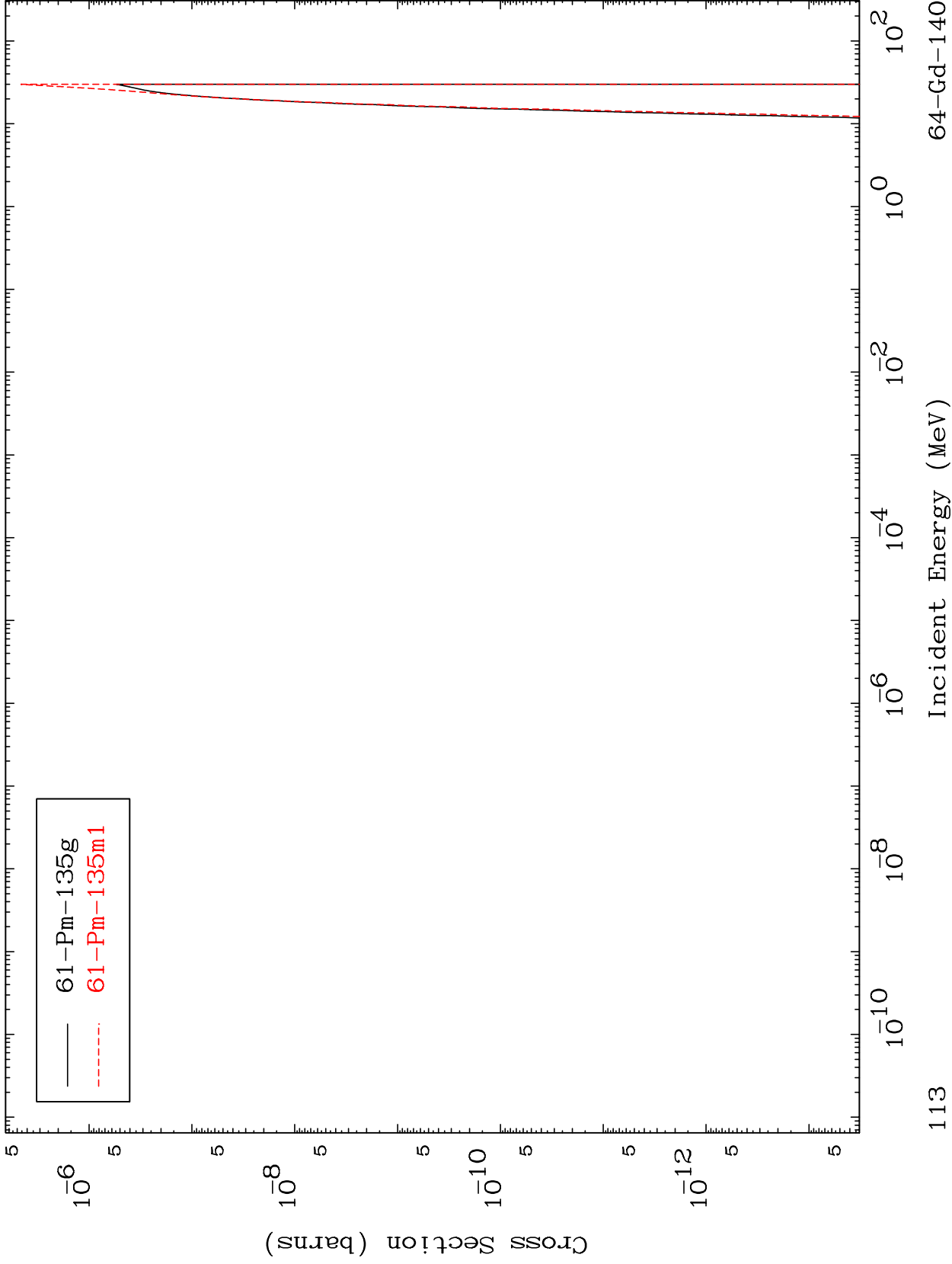


MAT 6389

(n,d)  $\alpha$

64-Gd-140

Radionuclide Production Cross Section



113

Incident Energy (MeV)

64-Gd-140