

Program EVALPLOT  
(Version 2017-1)

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

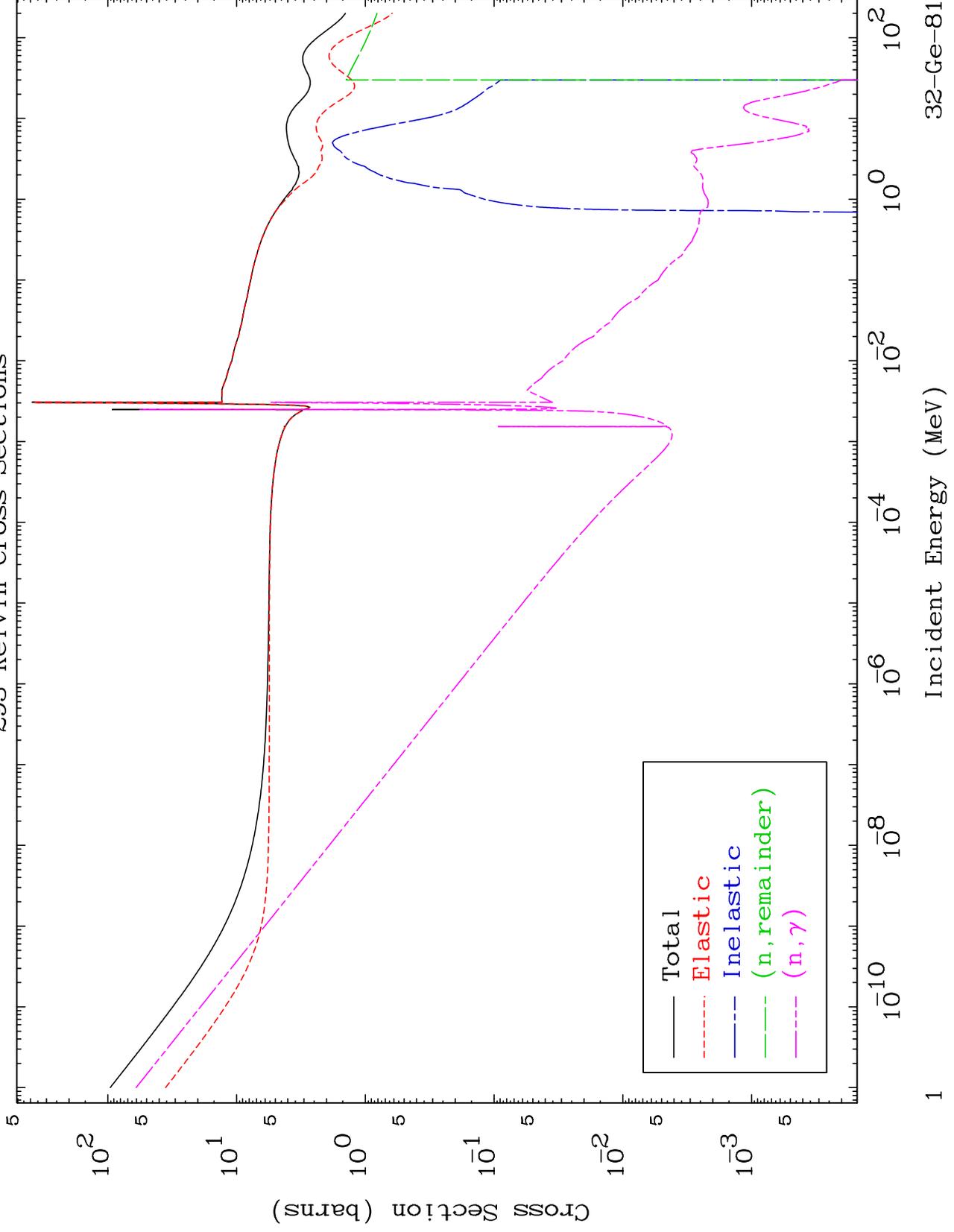
Press Mouse Button to Start

MAT 3258

Major

293 Kelvin Cross Sections

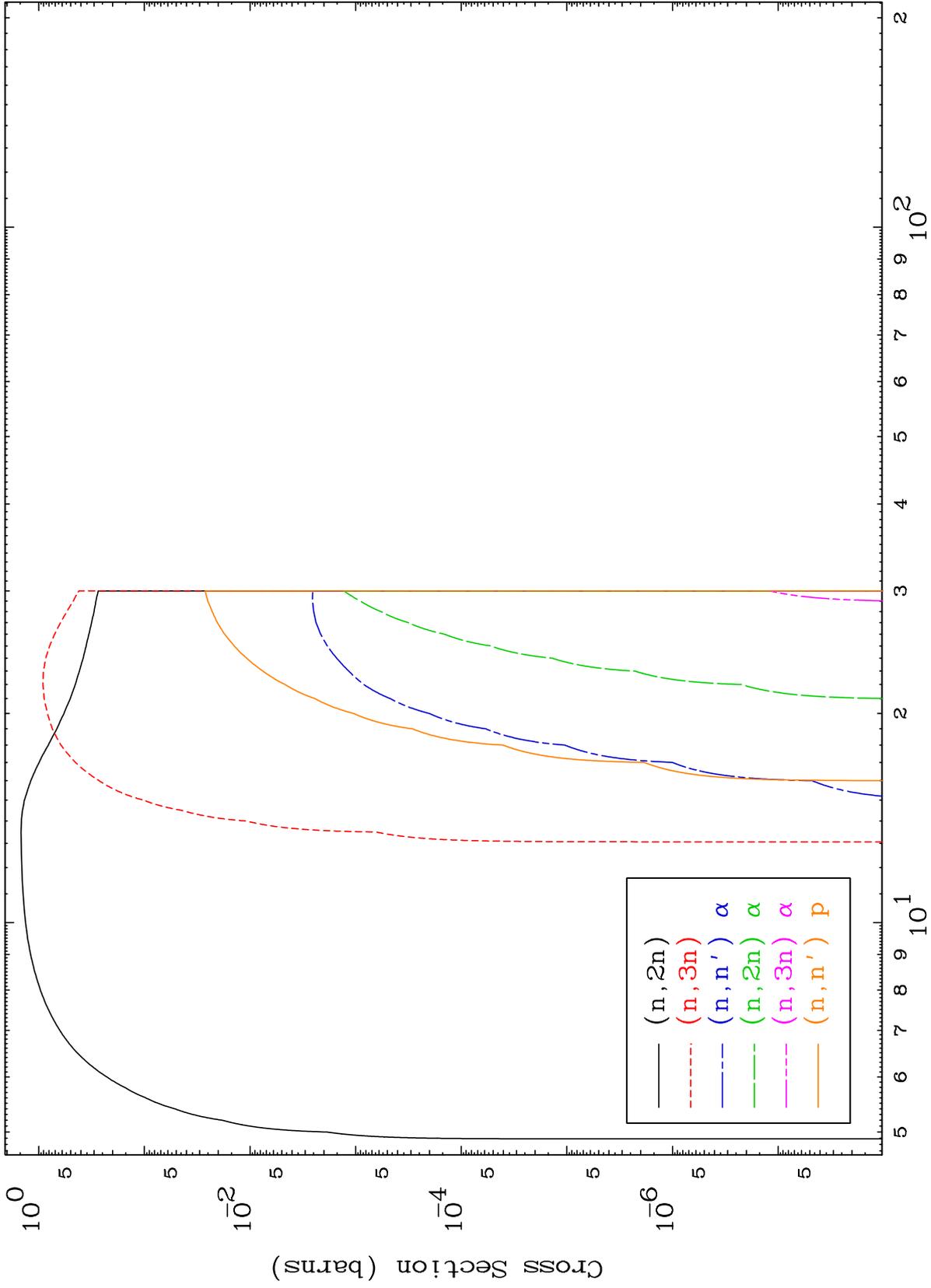
32-Ge-81



MAT 3258

Neutron Production  
293 Kelvin Cross Sections

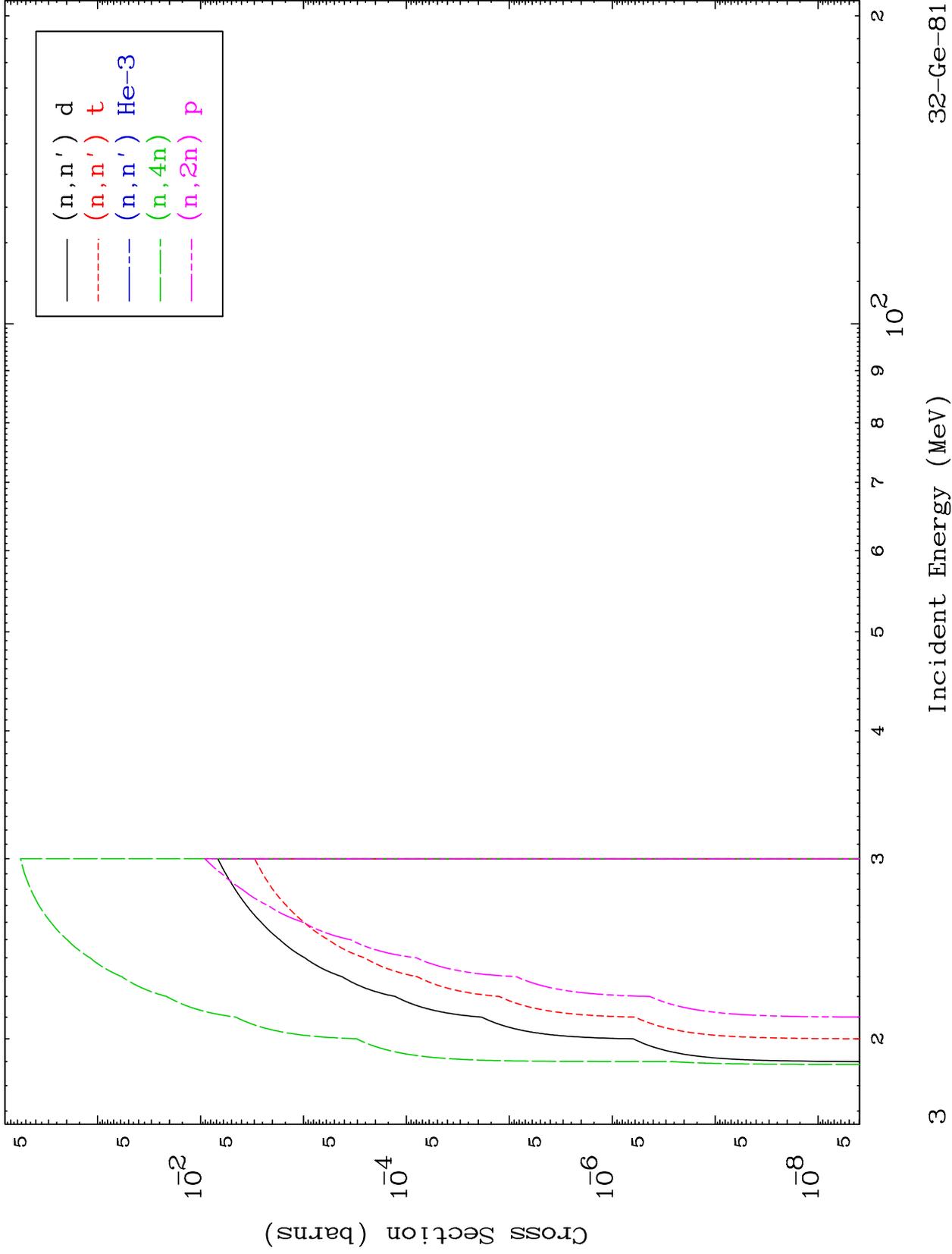
32-Ge-81



2

Incident Energy (MeV)

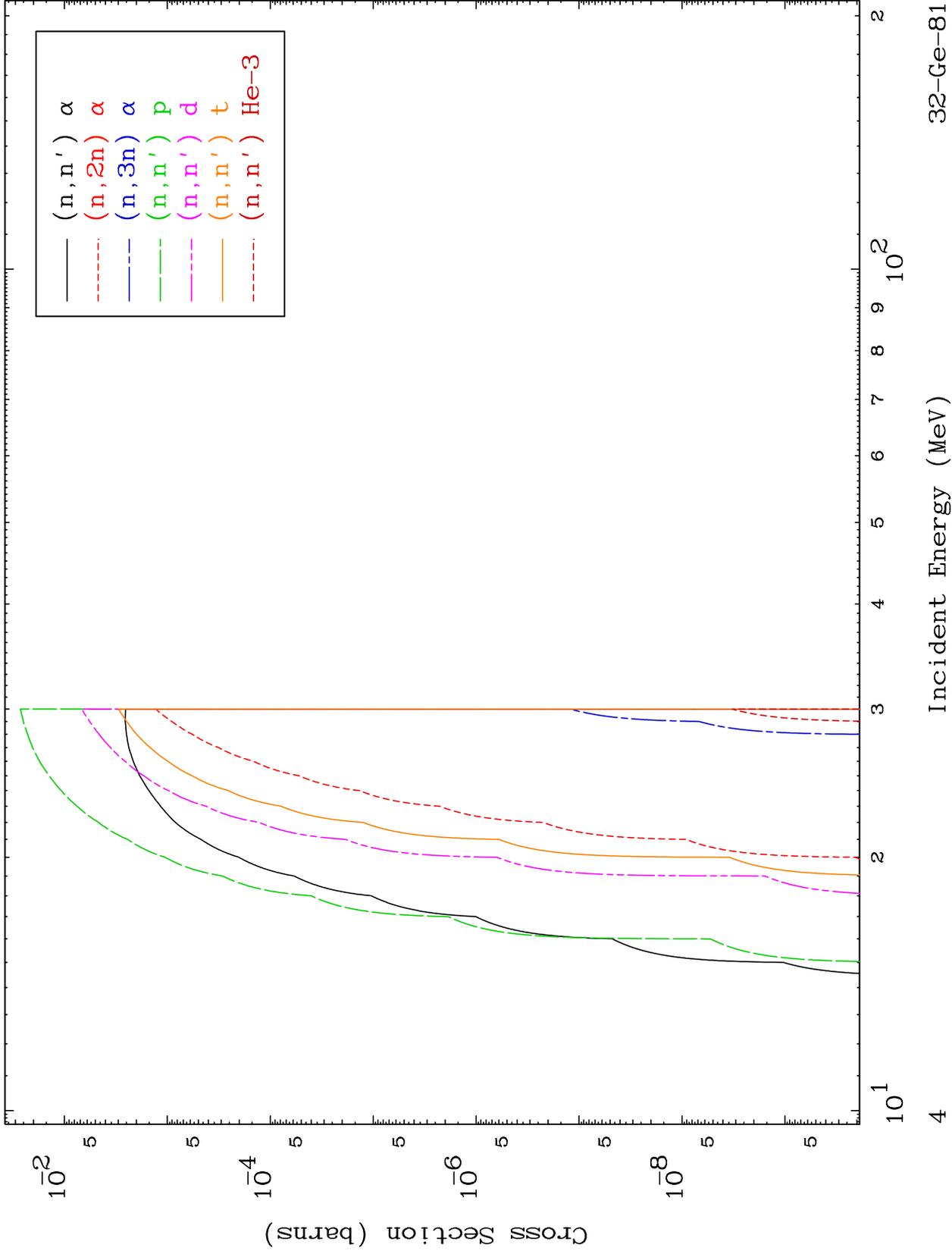
32-Ge-81



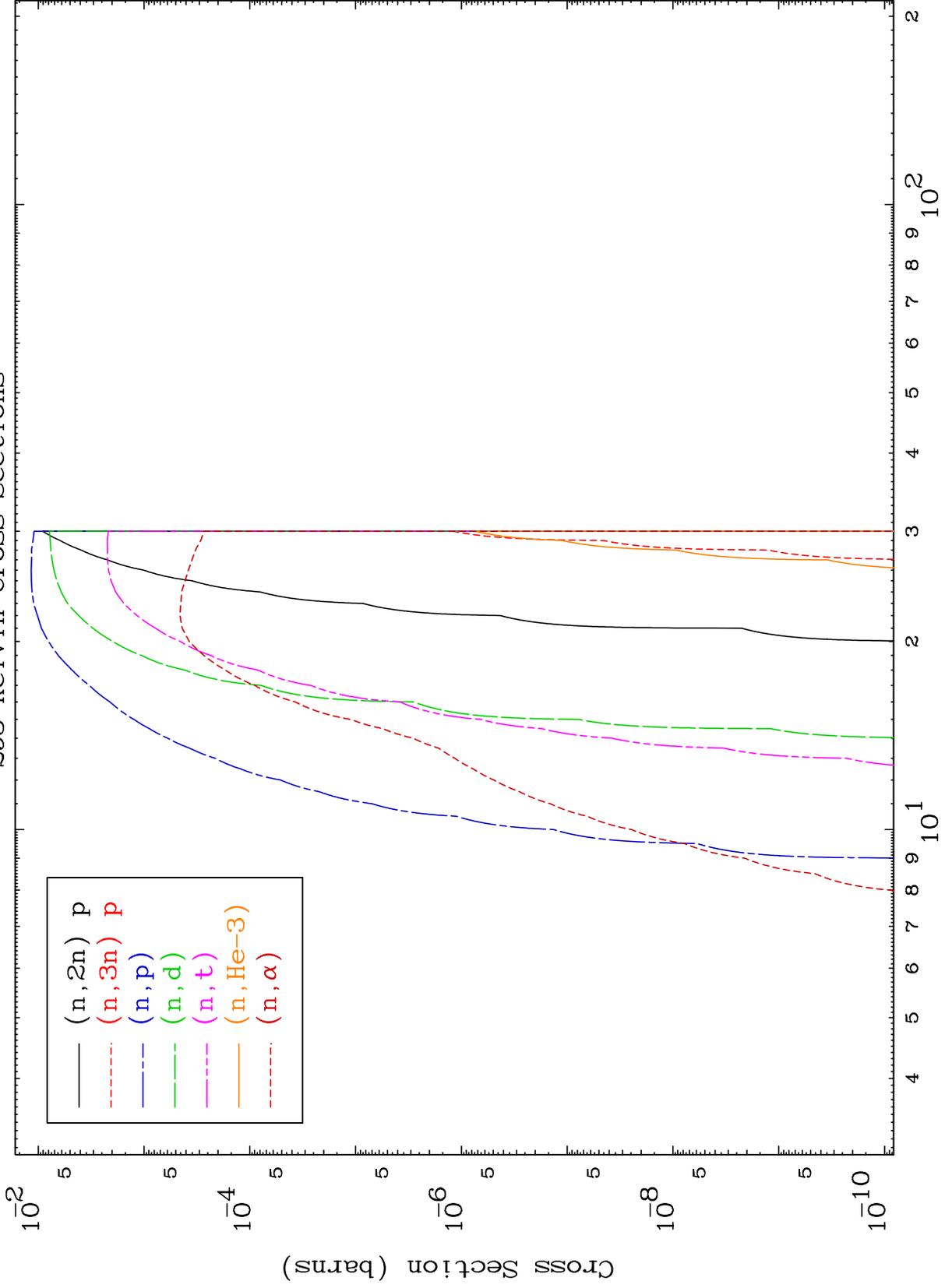
MAT 3258

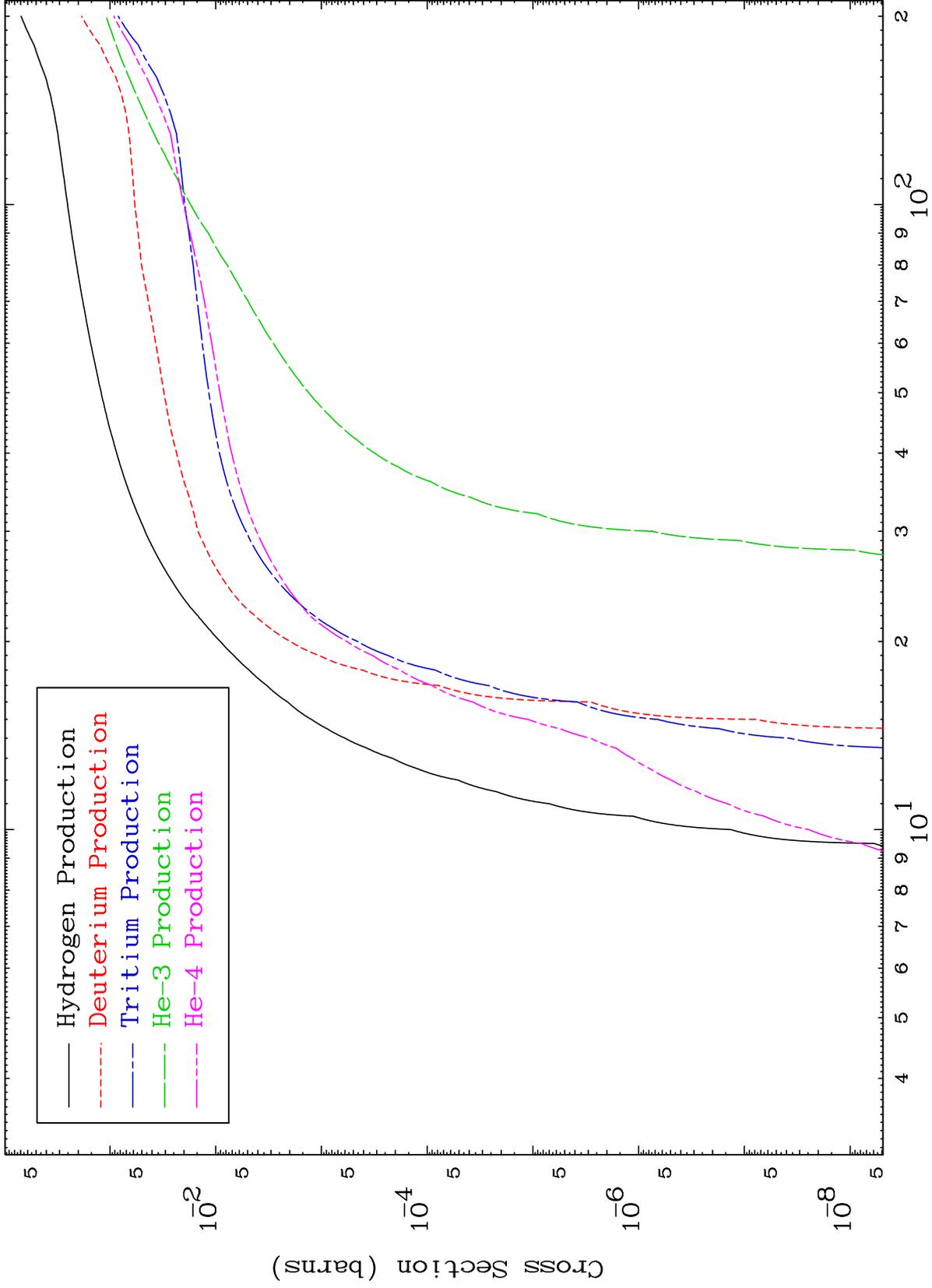
Charged Particle  
293 Kelvin Cross Sections

32-Ge-81



32-Ge-81



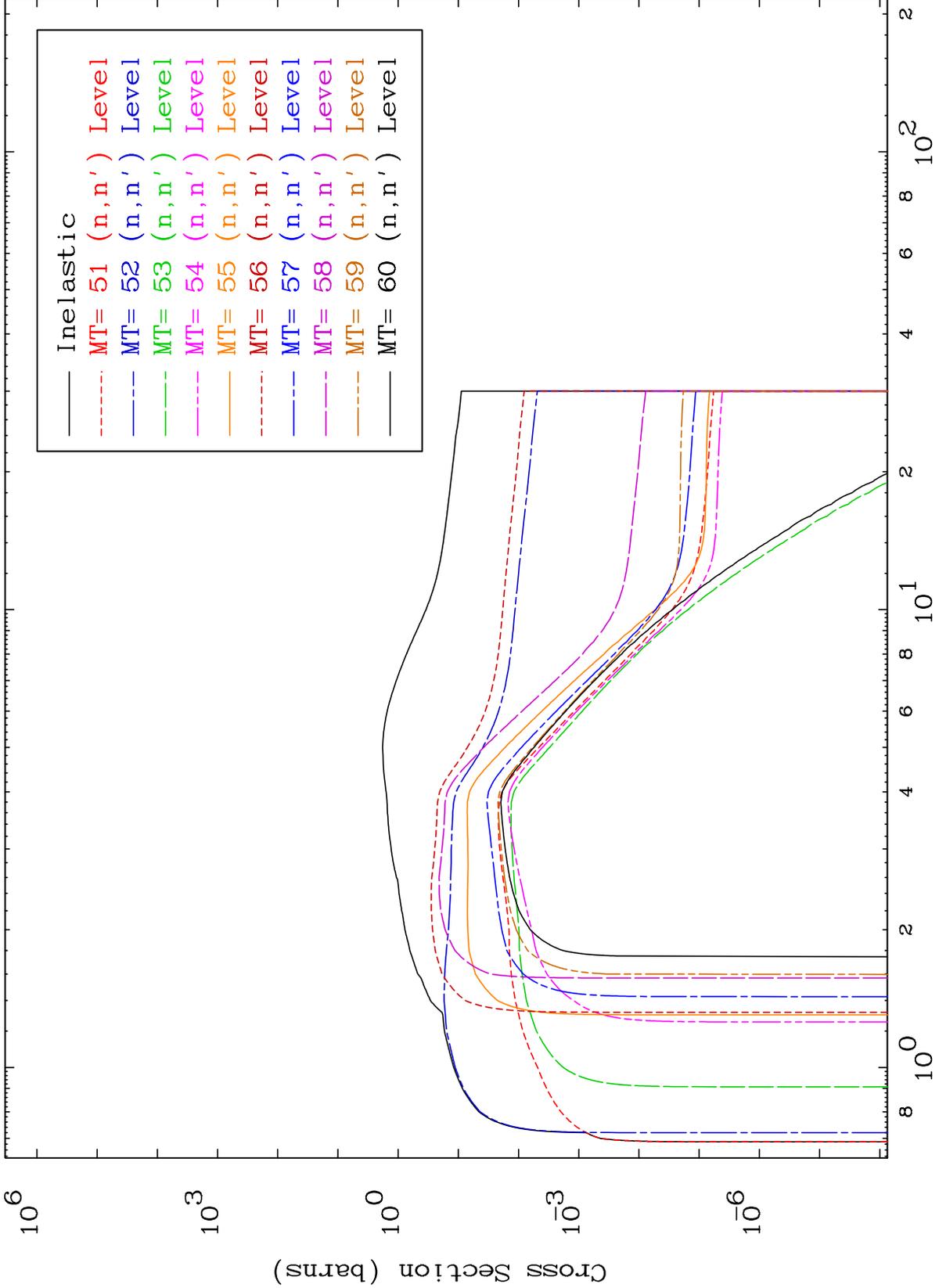


MAT 3258

(n,n') Level

32-Ge-81

293 Kelvin Cross Sections



7

Incident Energy (MeV)

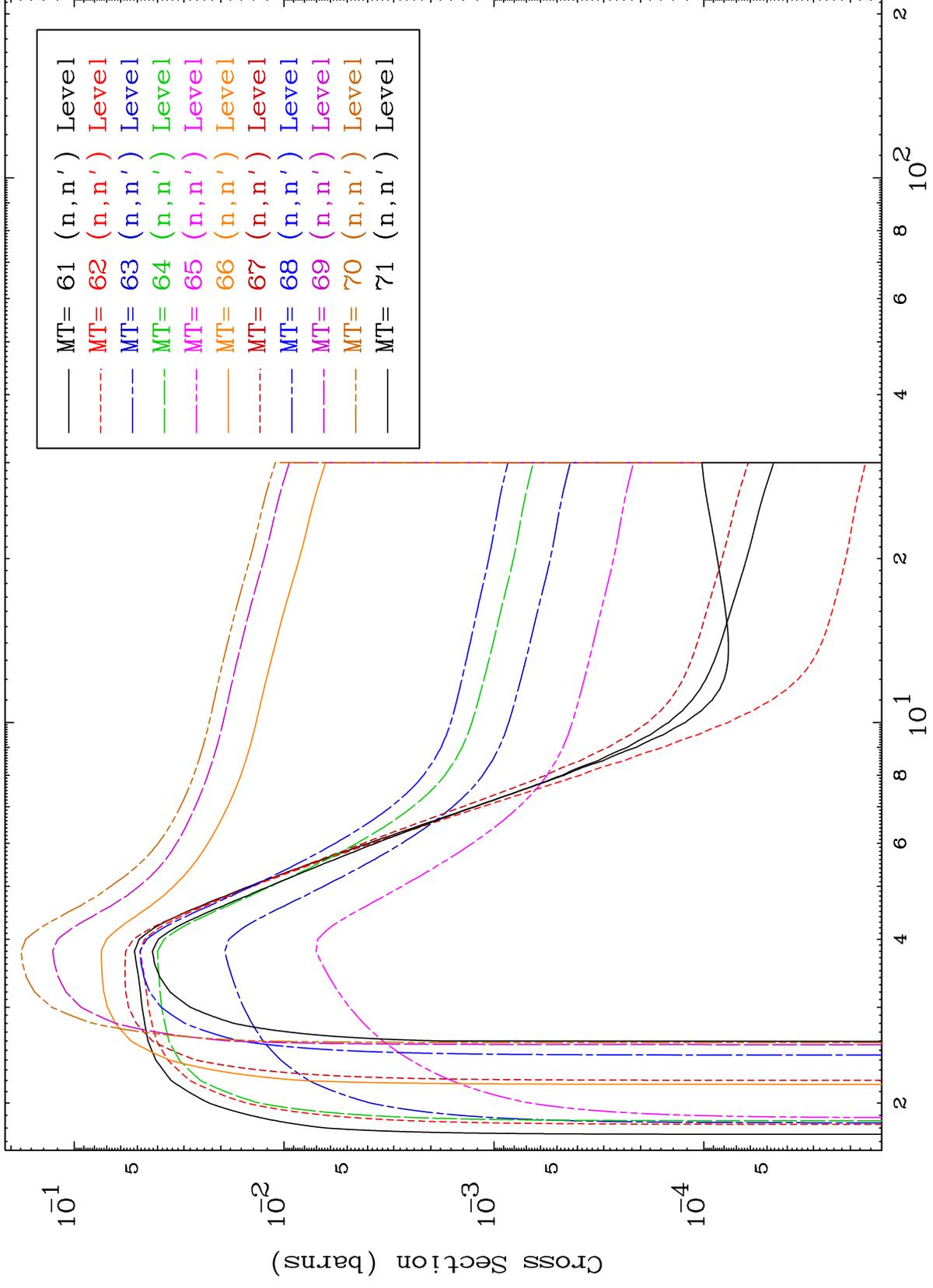
32-Ge-81

MAT 3258

(n,n') Level

32-Ge-81

293 Kelvin Cross Sections

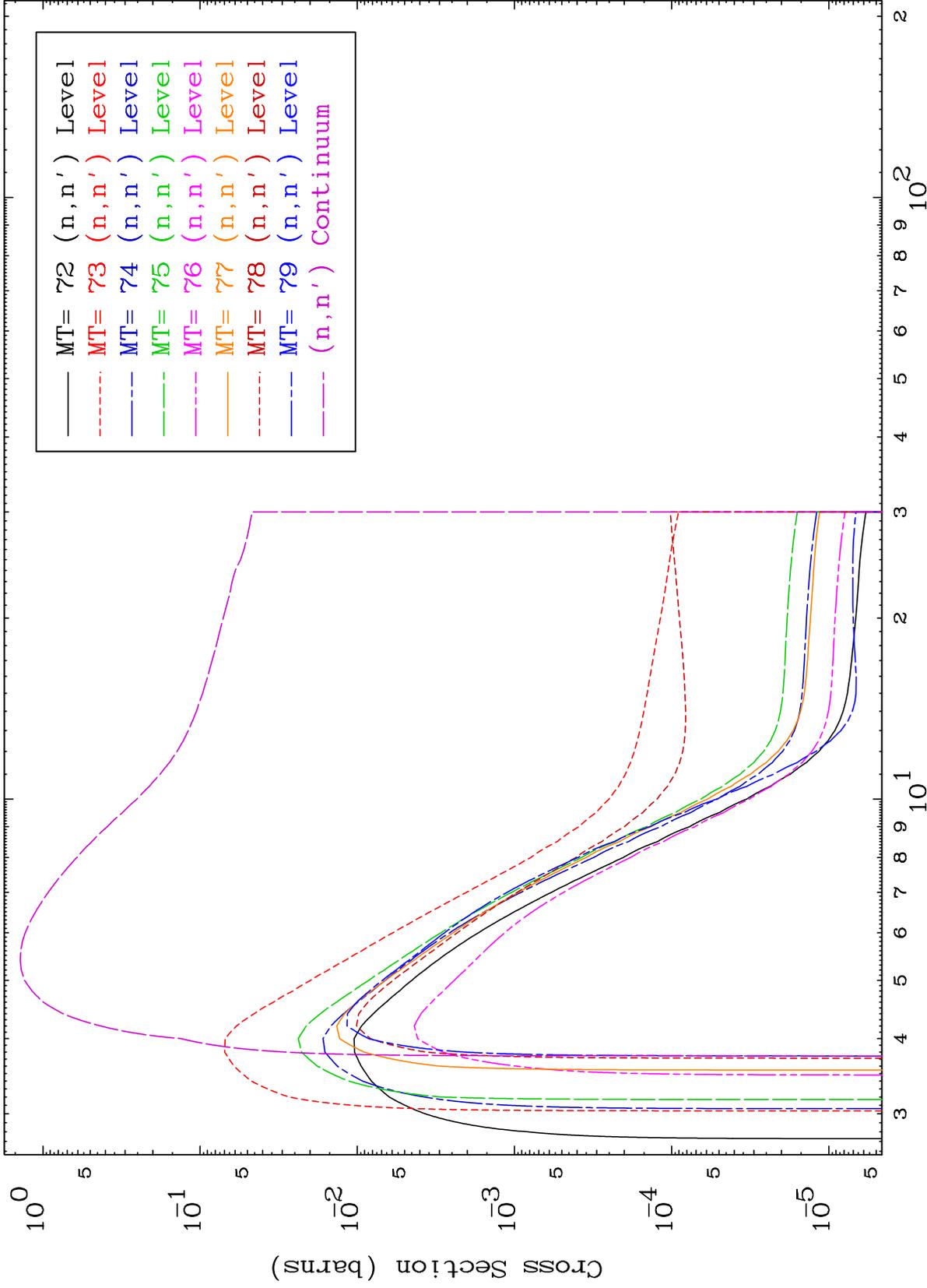


8

Incident Energy (MeV)

32-Ge-81

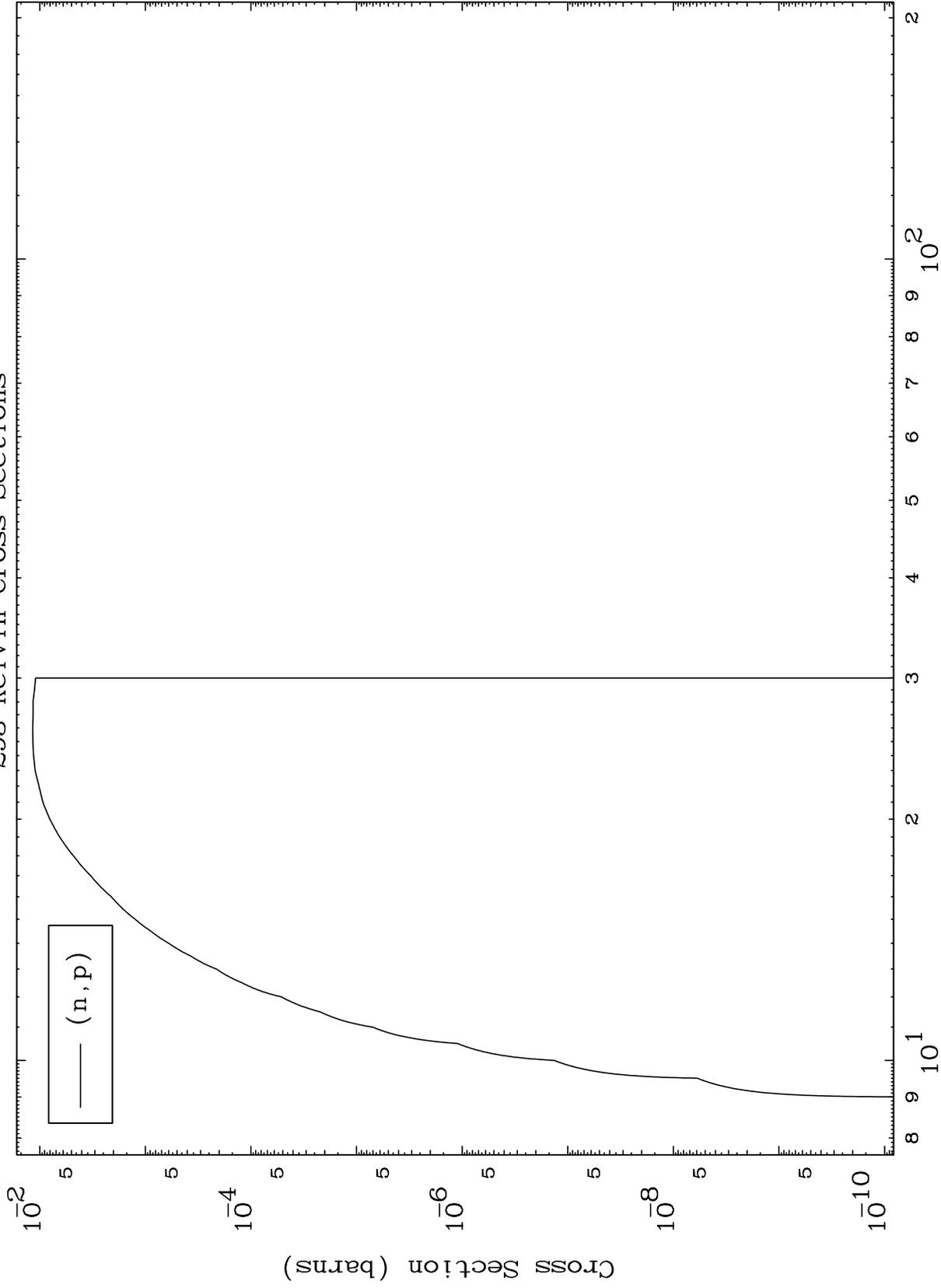
293 Kelvin Cross Sections



MAT 3258

(n,p) Levels  
293 Kelvin Cross Sections

<sup>32</sup>Ge-81



10

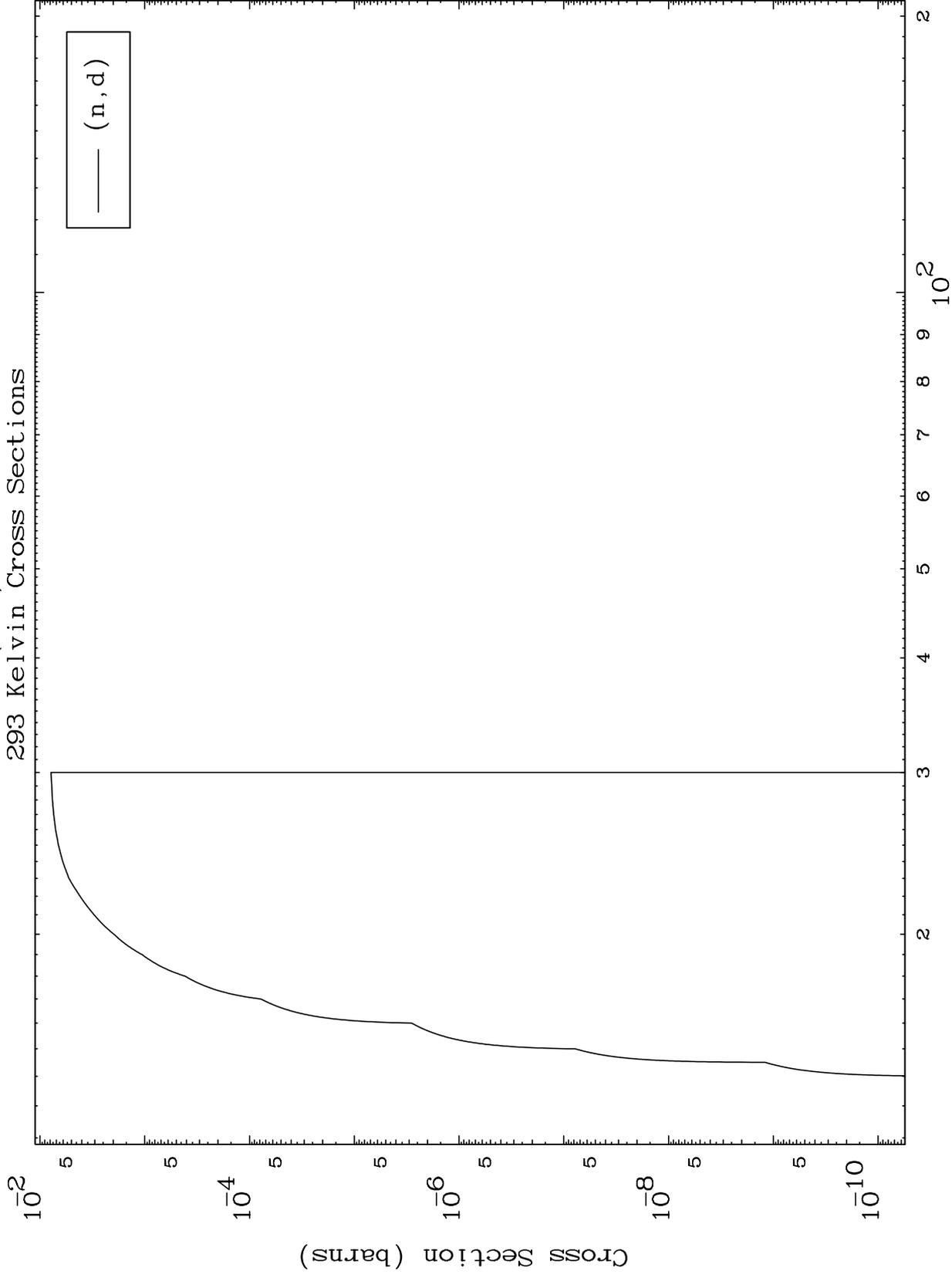
Incident Energy (MeV)

<sup>32</sup>Ge-81

MAT 3258

(n,d) Levels  
293 Kelvin Cross Sections

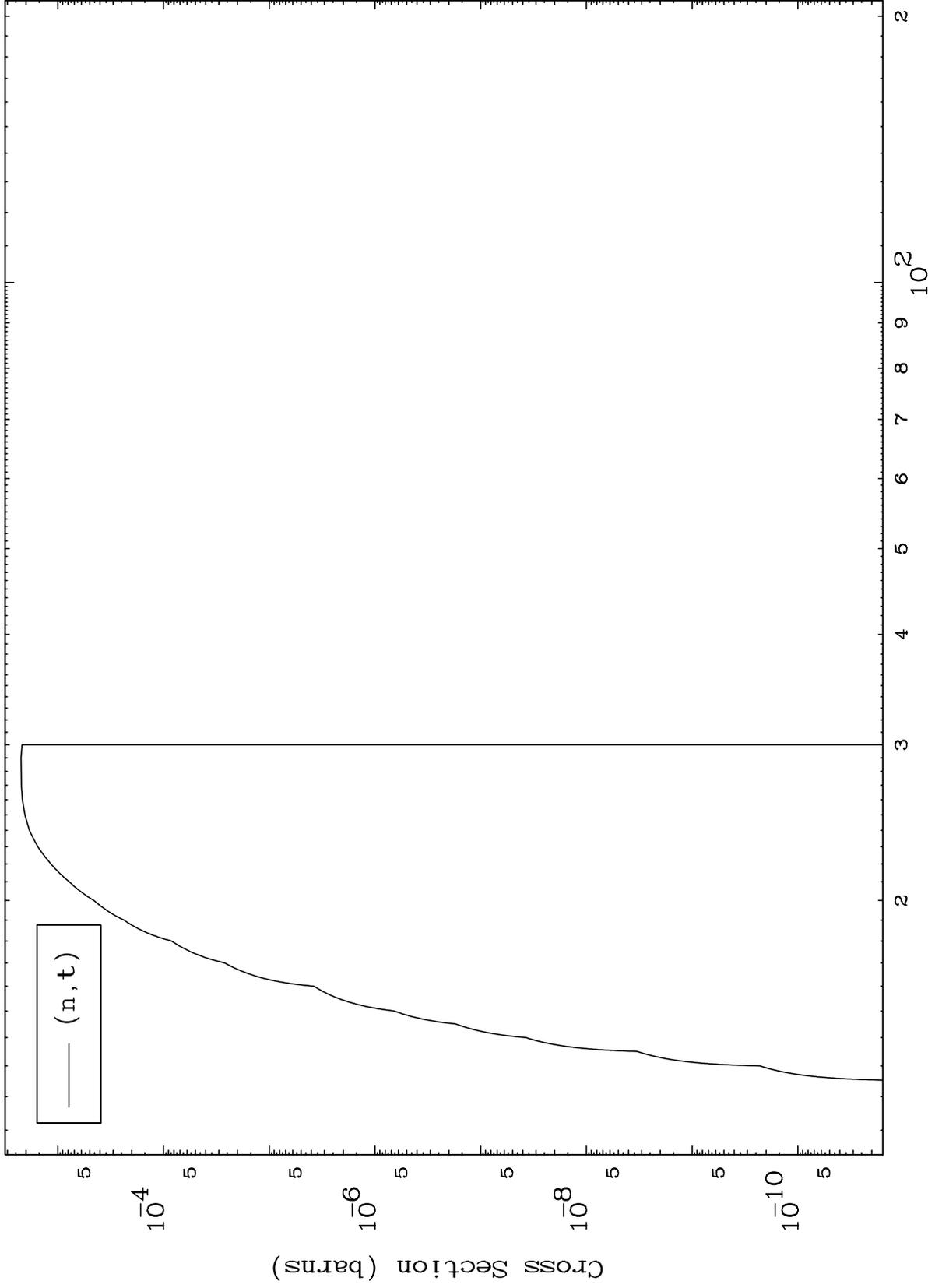
32-Ge-81



11

Incident Energy (MeV)

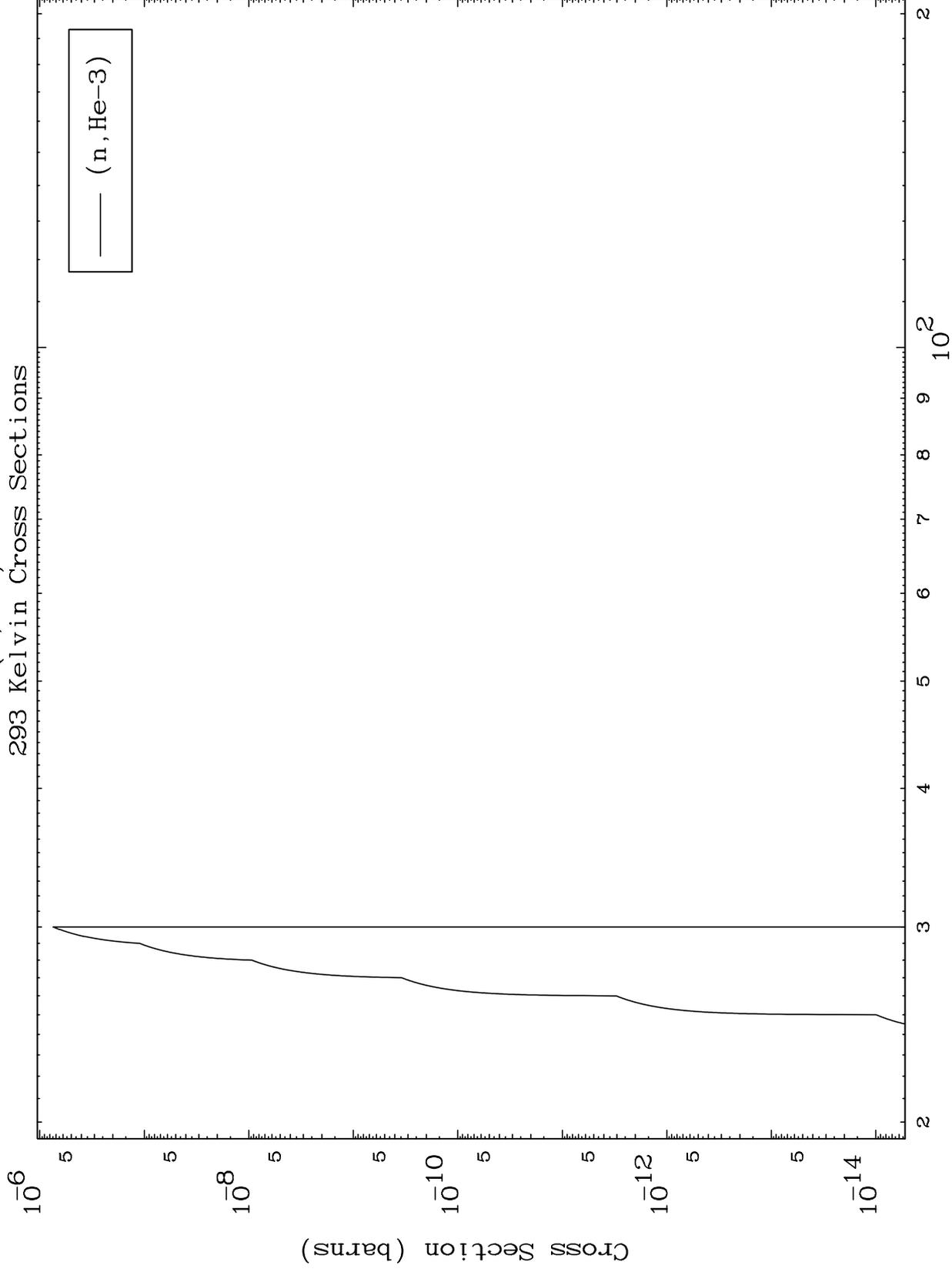
32-Ge-81



MAT 3258

(n,He3) Levels  
293 Kelvin Cross Sections

32-Ge-81



13

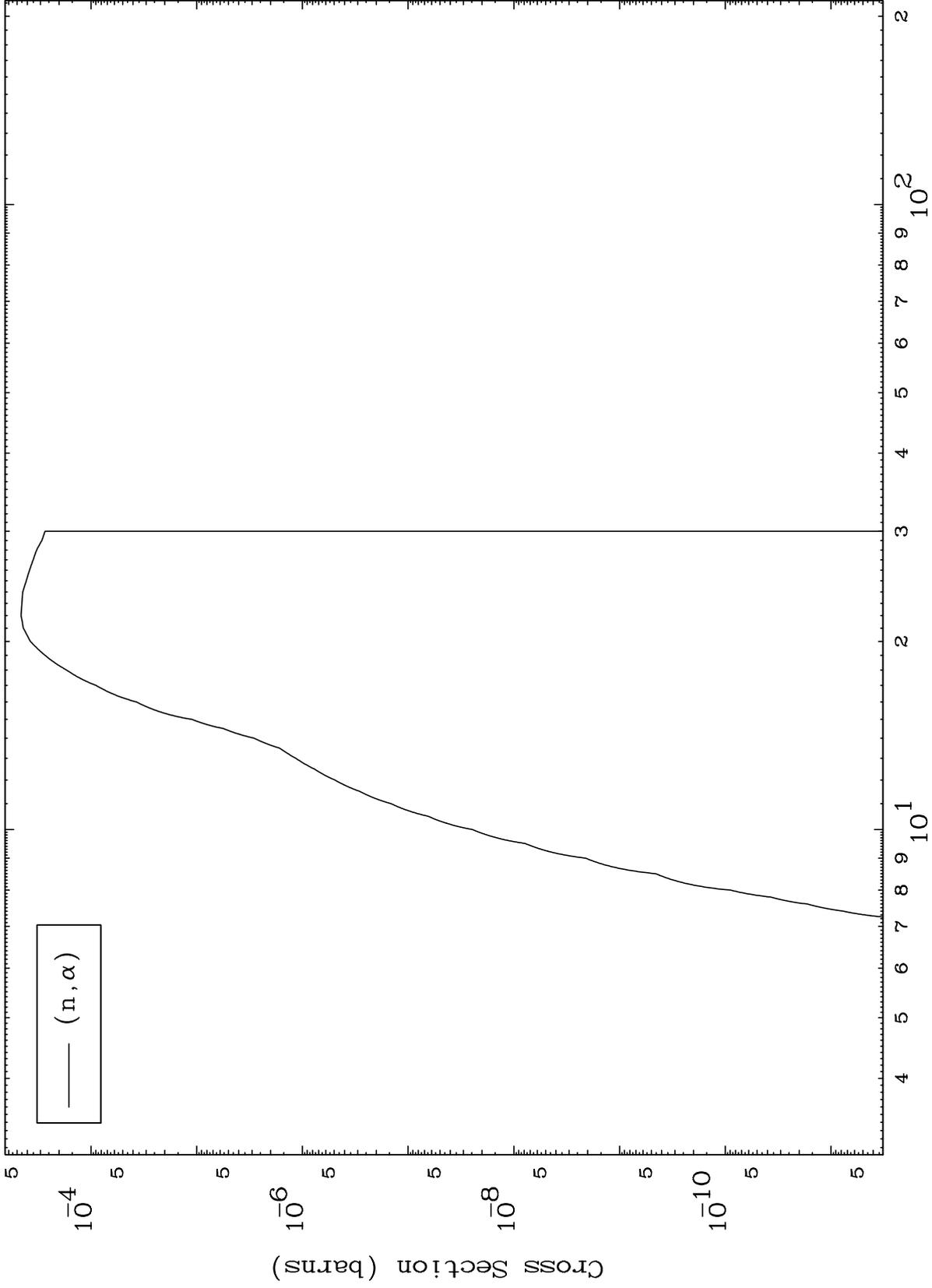
Incident Energy (MeV)

32-Ge-81

MAT 3258

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

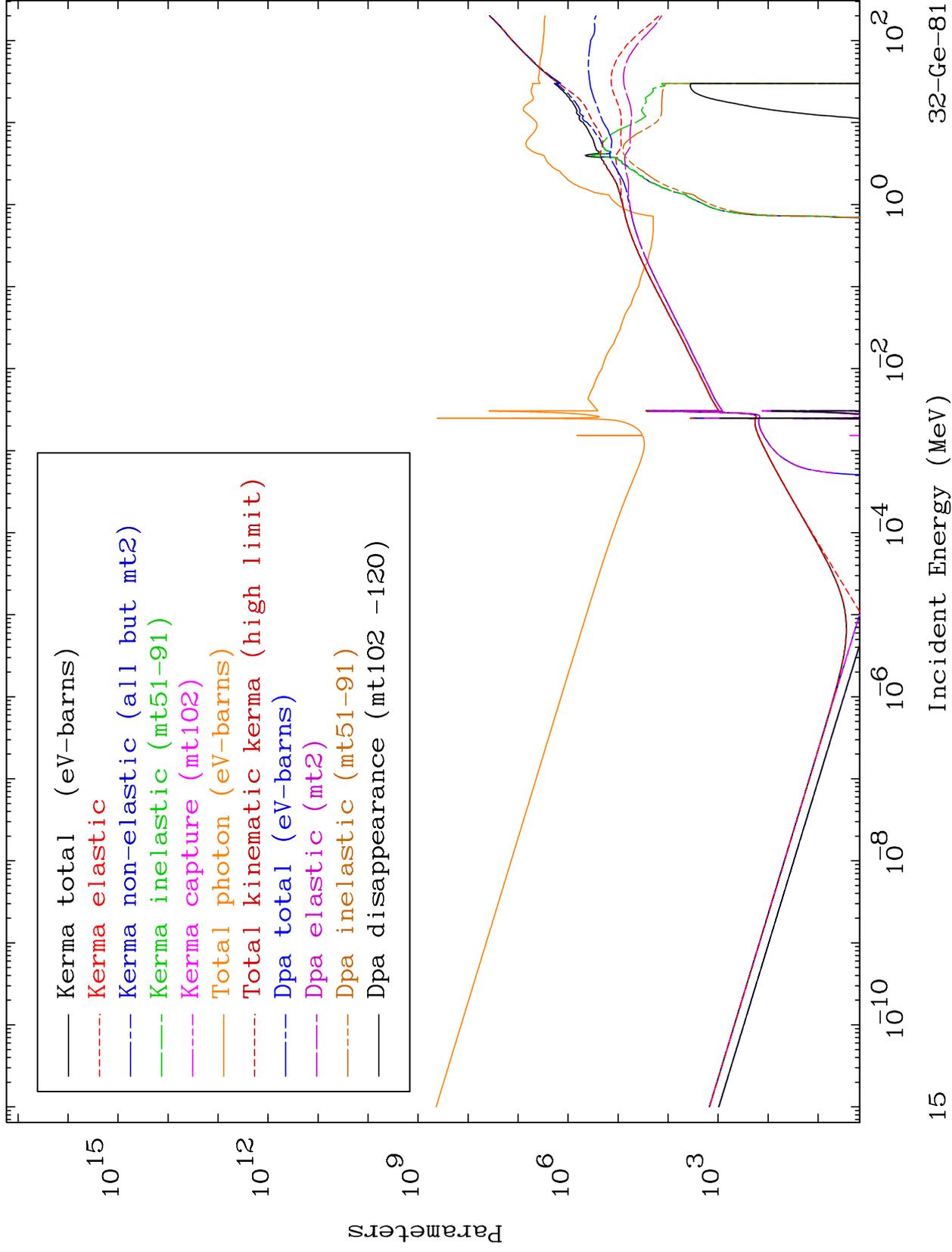
<sup>32</sup>Ge-81



14

Incident Energy (MeV)

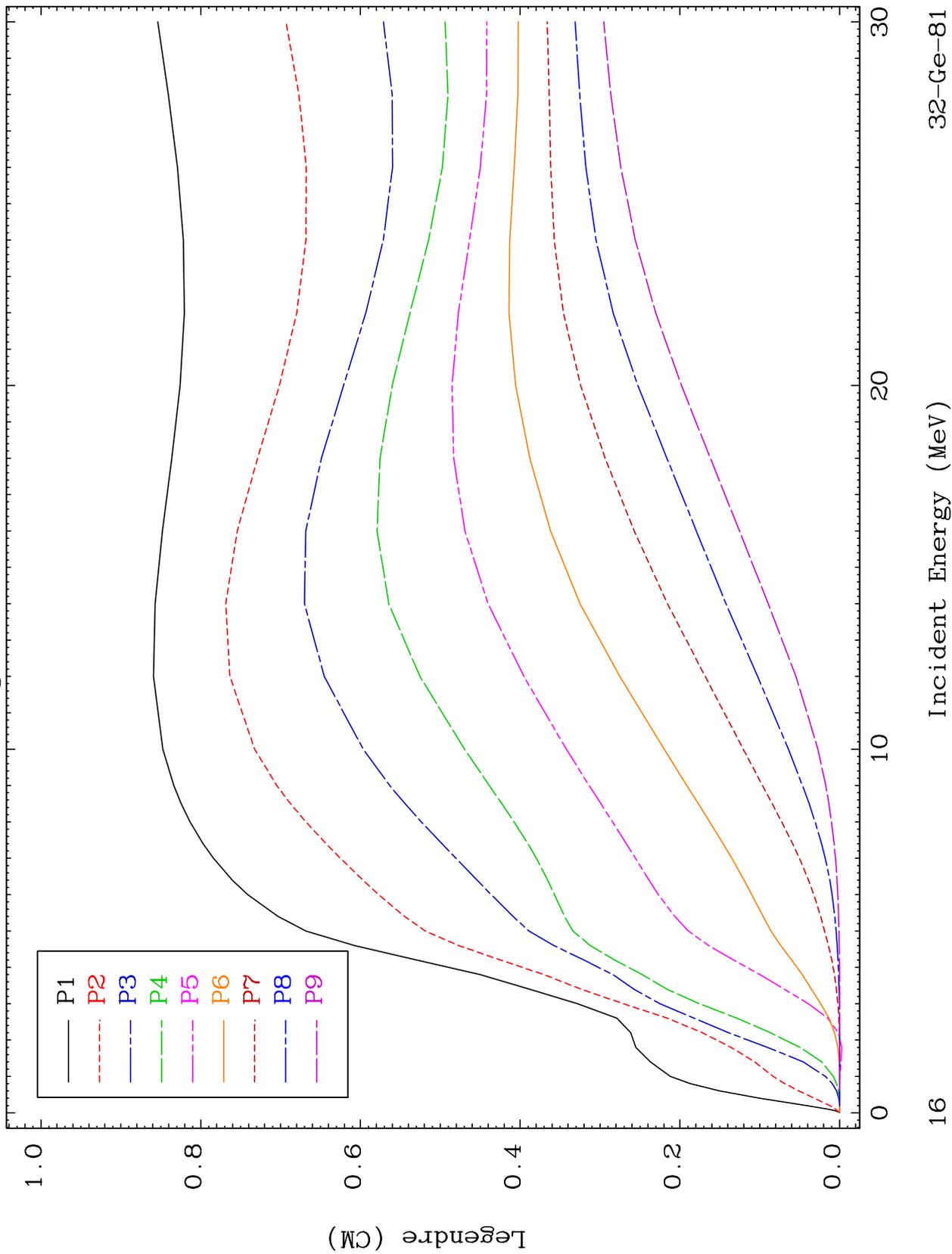
<sup>32</sup>Ge-81



MAT 3258

Elastic Legendre Coefficients

<sup>32</sup>Ge-81

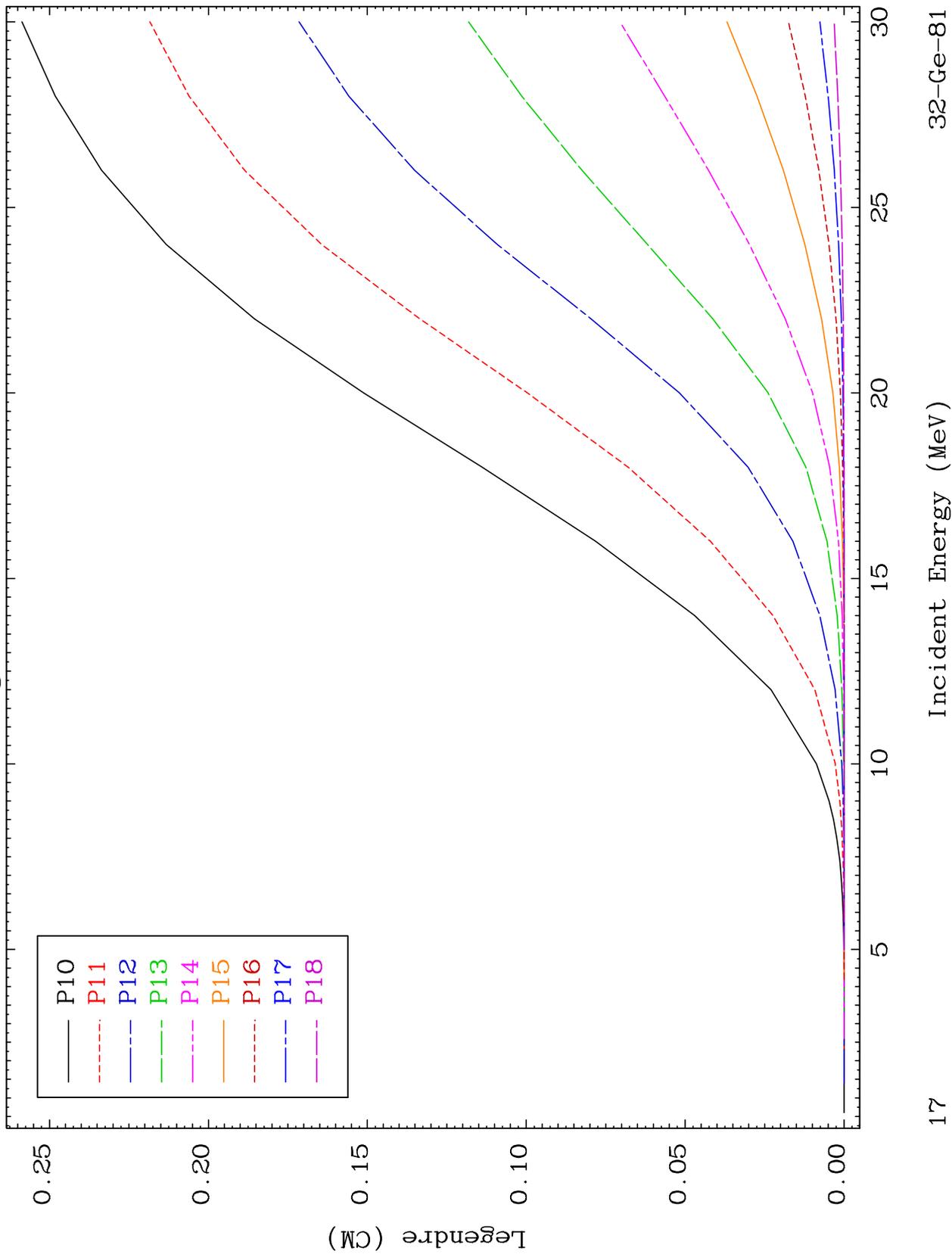


16

MAT 3258

Elastic Legendre Coefficients

<sup>32</sup>Ge-81



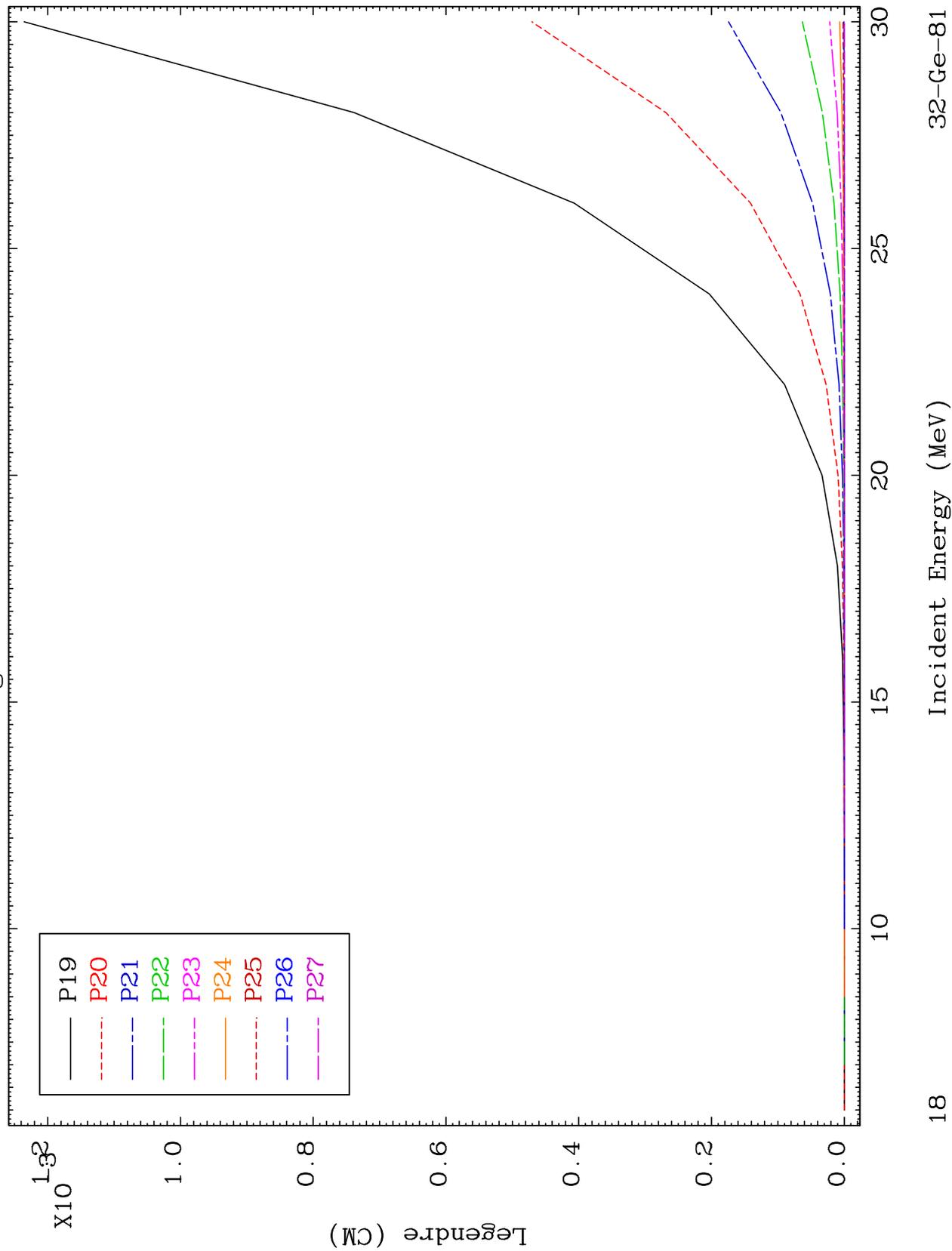
17

<sup>32</sup>Ge-81

MAT 3258

Elastic Legendre Coefficients

<sup>32</sup>Ge-81



18

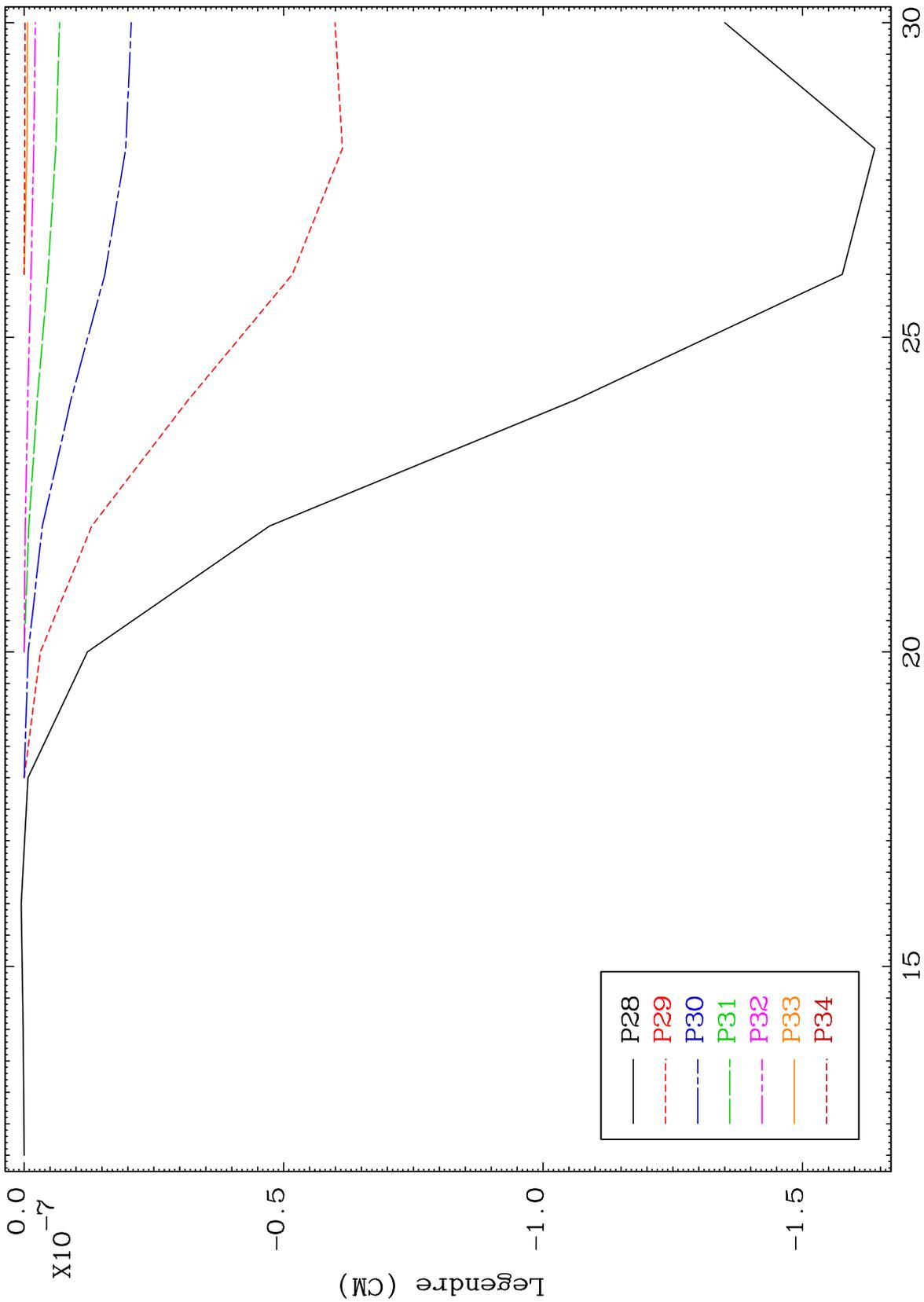
Incident Energy (MeV)

<sup>32</sup>Ge-81

MAT 3258

32-Ge-81

Elastic Legendre Coefficients



Legendre (CM)  
X10<sup>-7</sup>

Incident Energy (MeV)

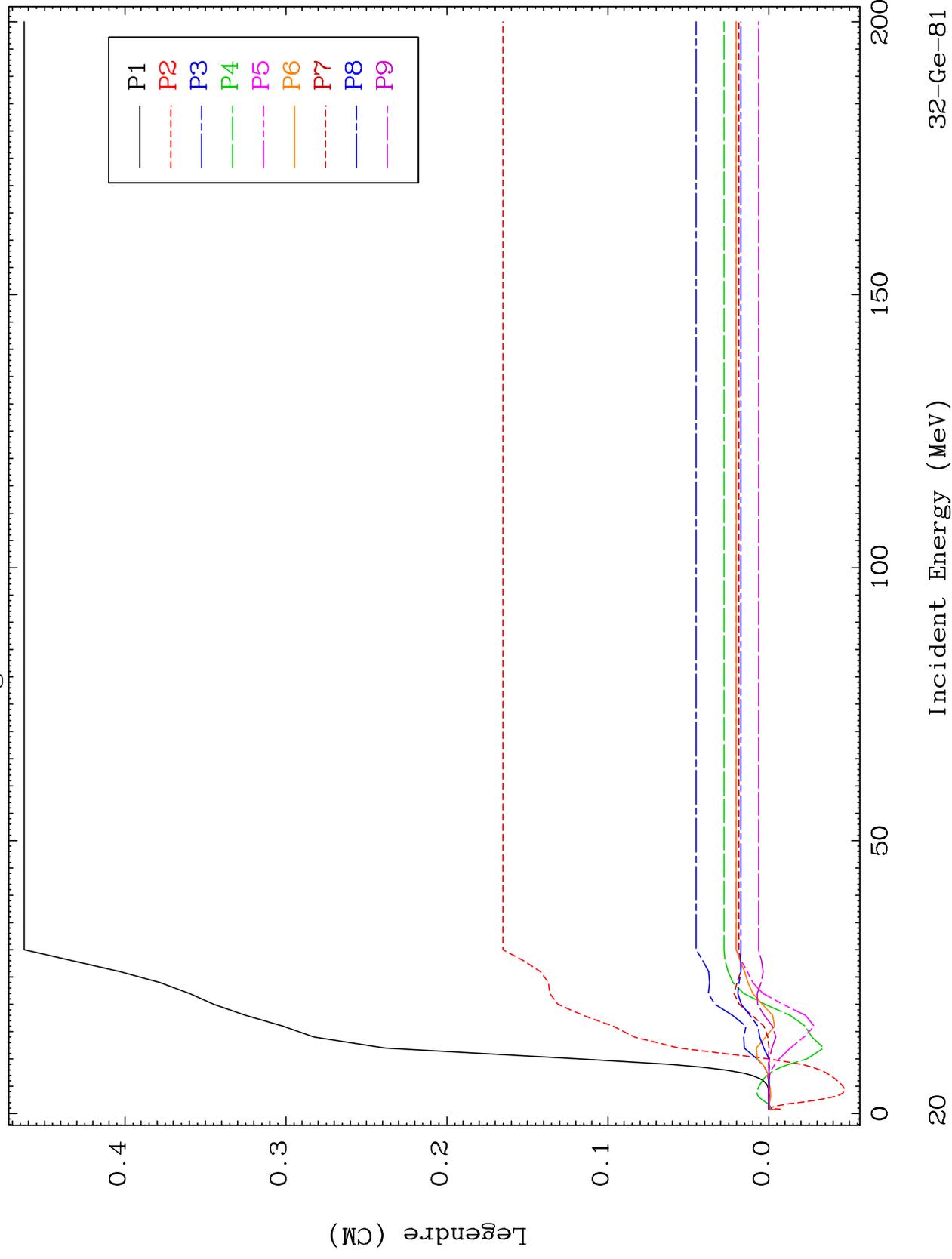
32-Ge-81

19

MAT 3258

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

32-Ge-81



32-Ge-81

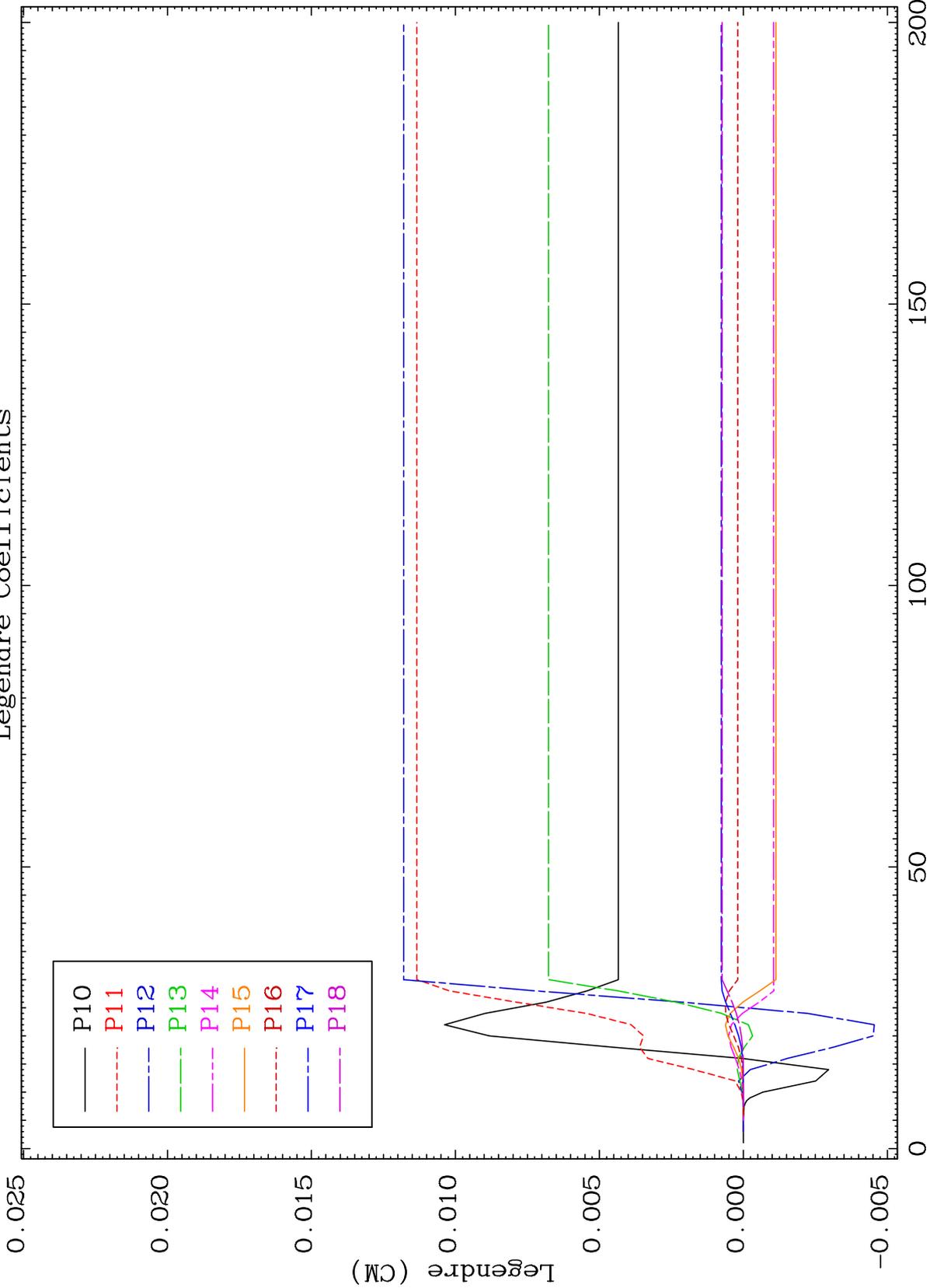
Incident Energy (MeV)

Legendre (CM)

MAT 3258

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

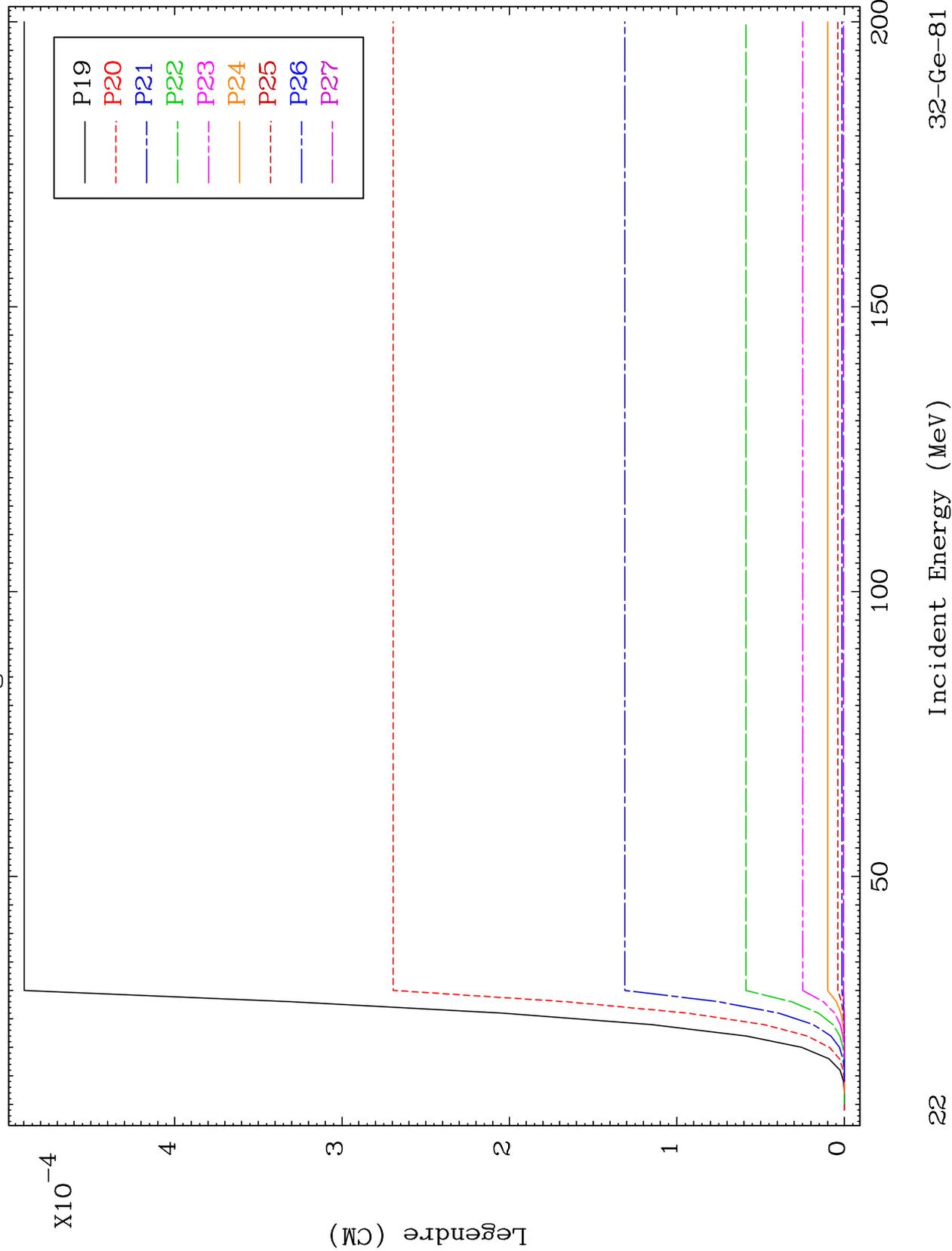
32-Ge-81



MAT 3258

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

32-Ge-81



22

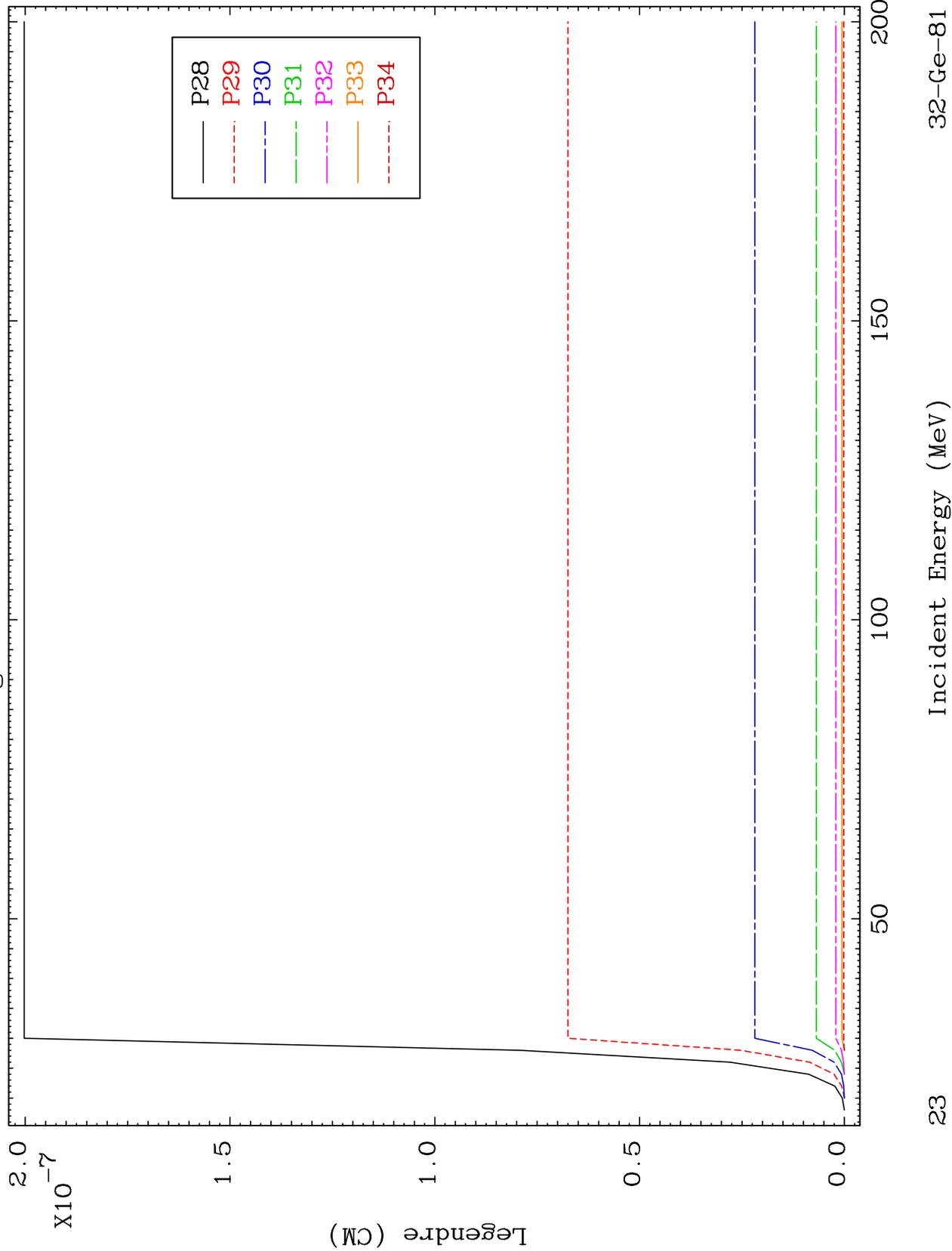
Incident Energy (MeV)

32-Ge-81

MAT 3258

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

32-Ge-81



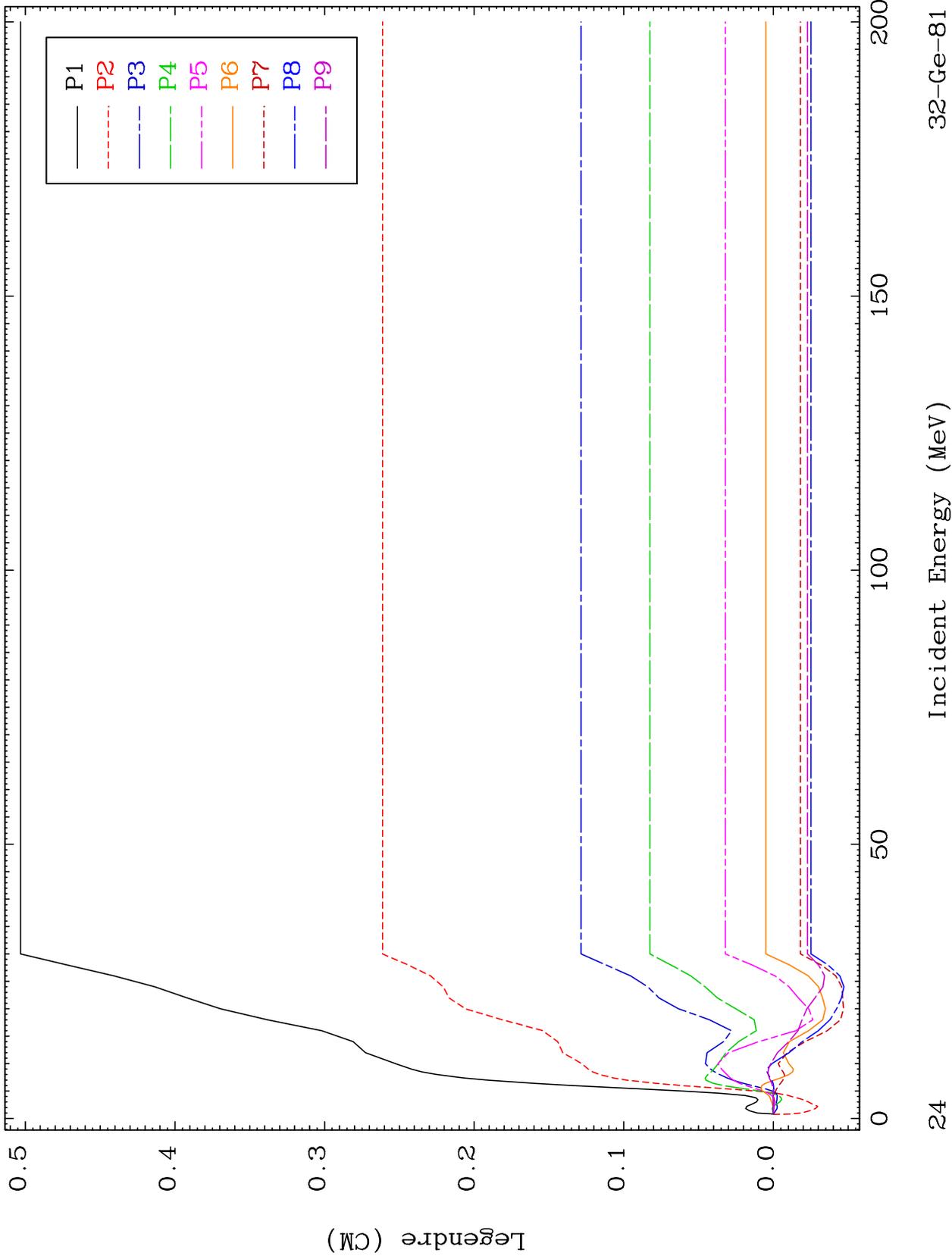
23

32-Ge-81

MAT 3258

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

32-Ge-81



24

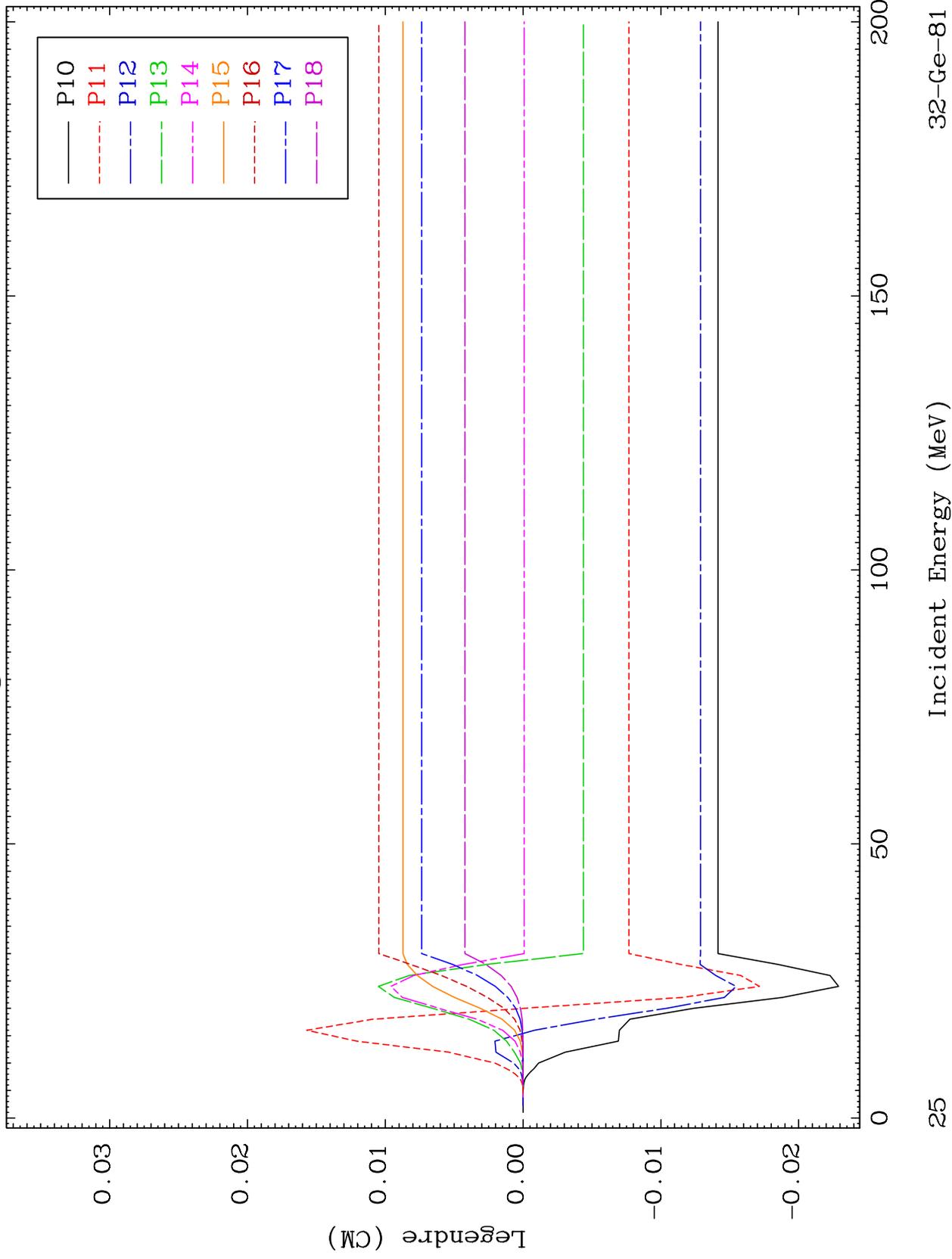
Incident Energy (MeV)

32-Ge-81

MAT 3258

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

32-Ge-81



32-Ge-81

Incident Energy (MeV)

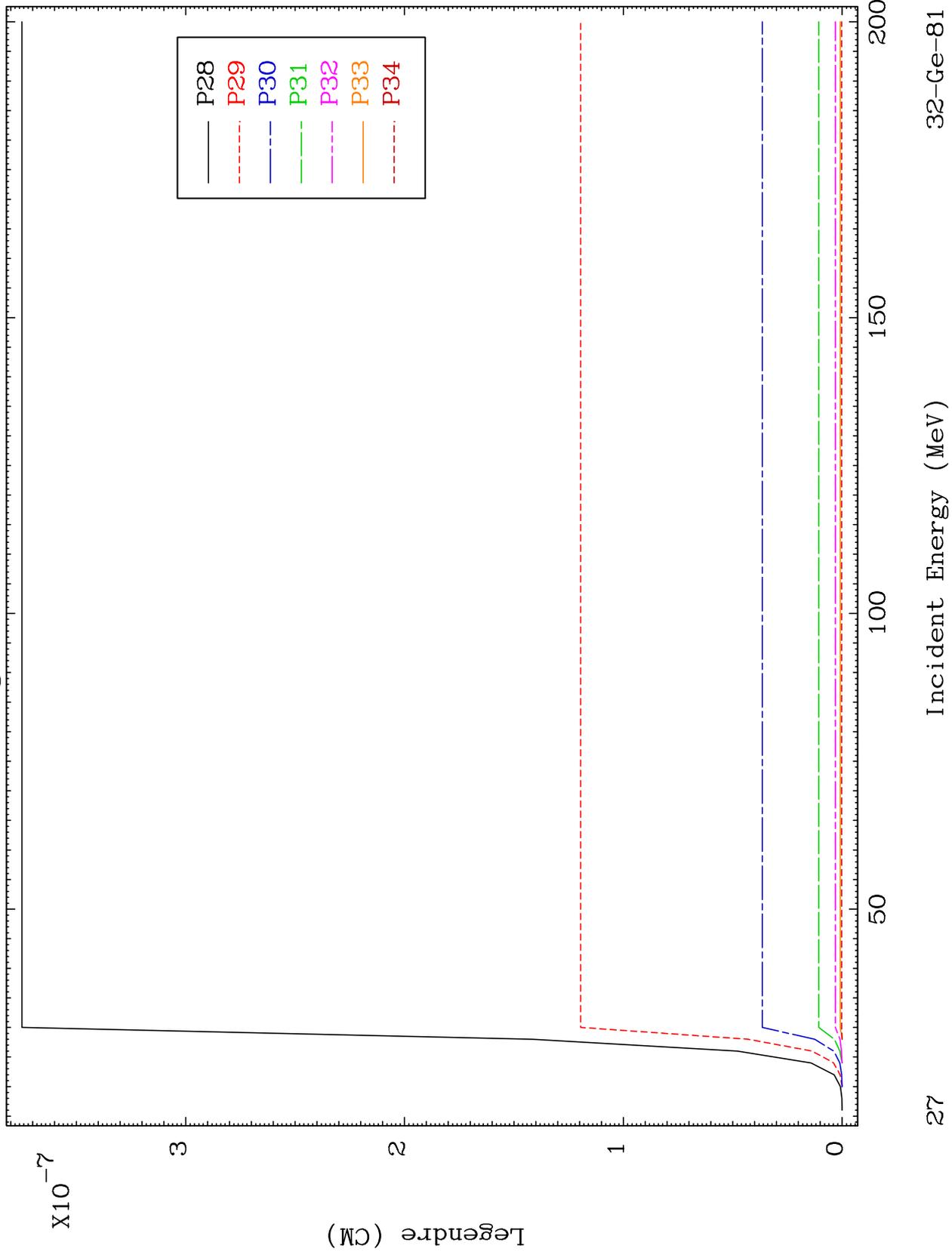
25

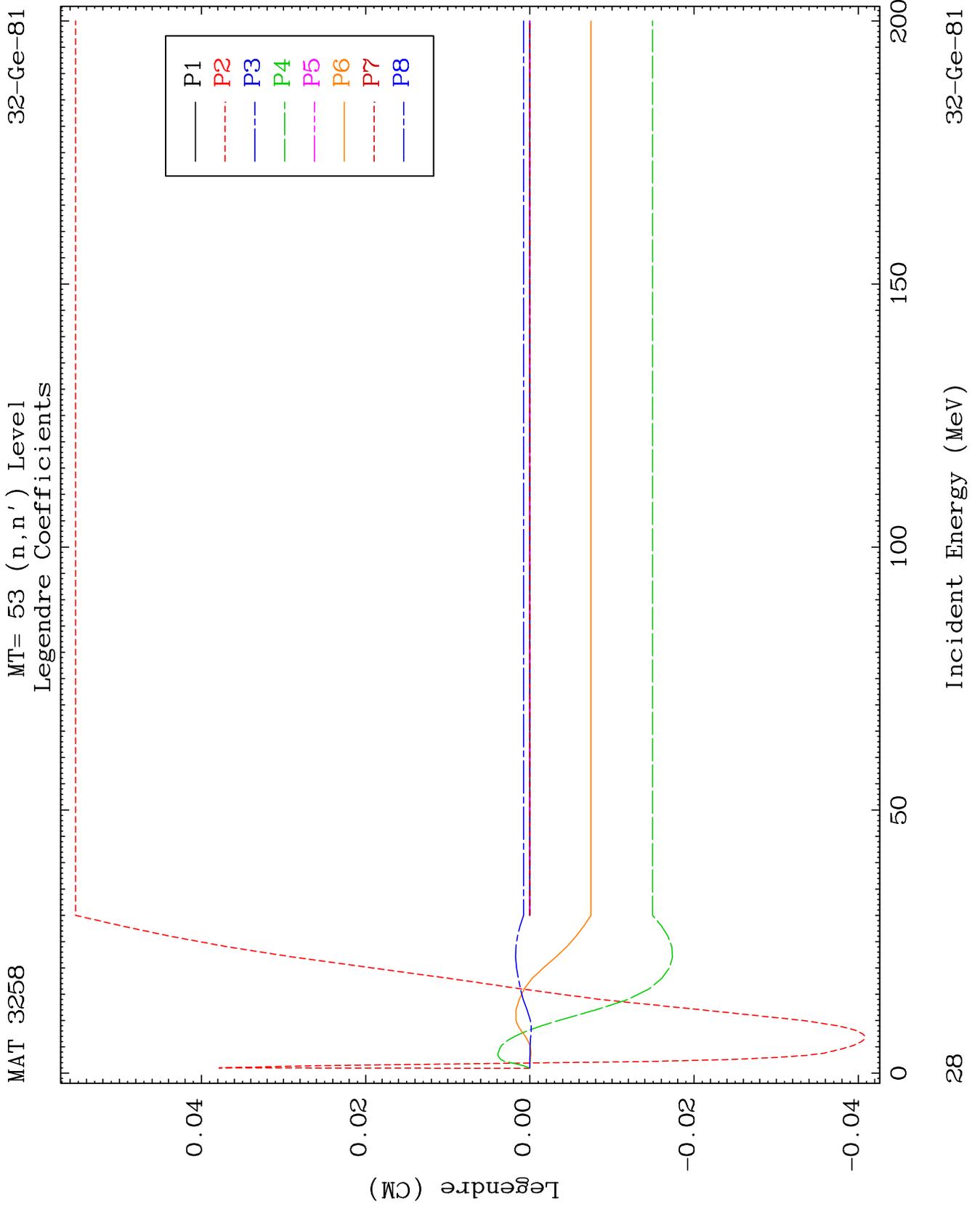


MAT 3258

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

32-Ge-81

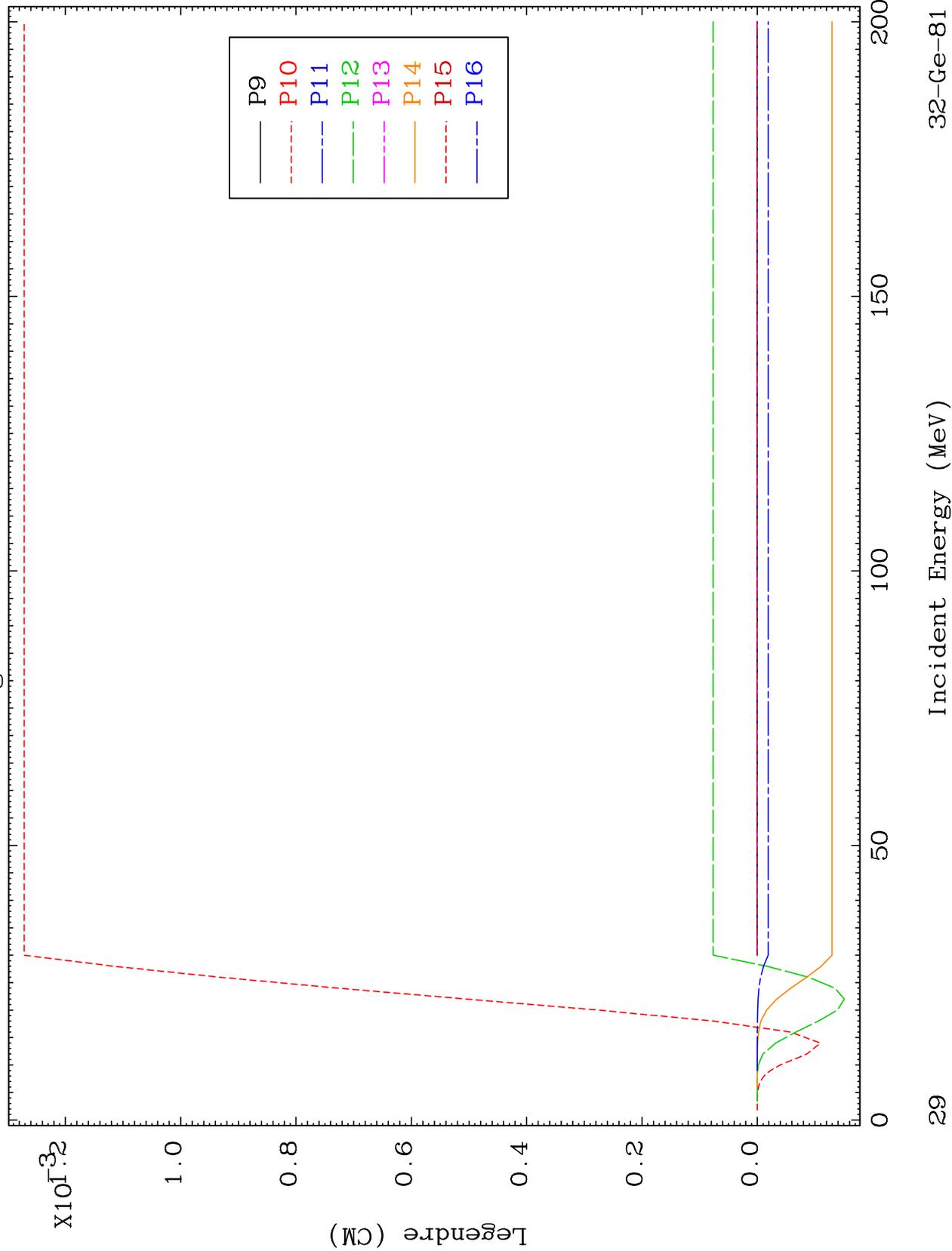




MAT 3258

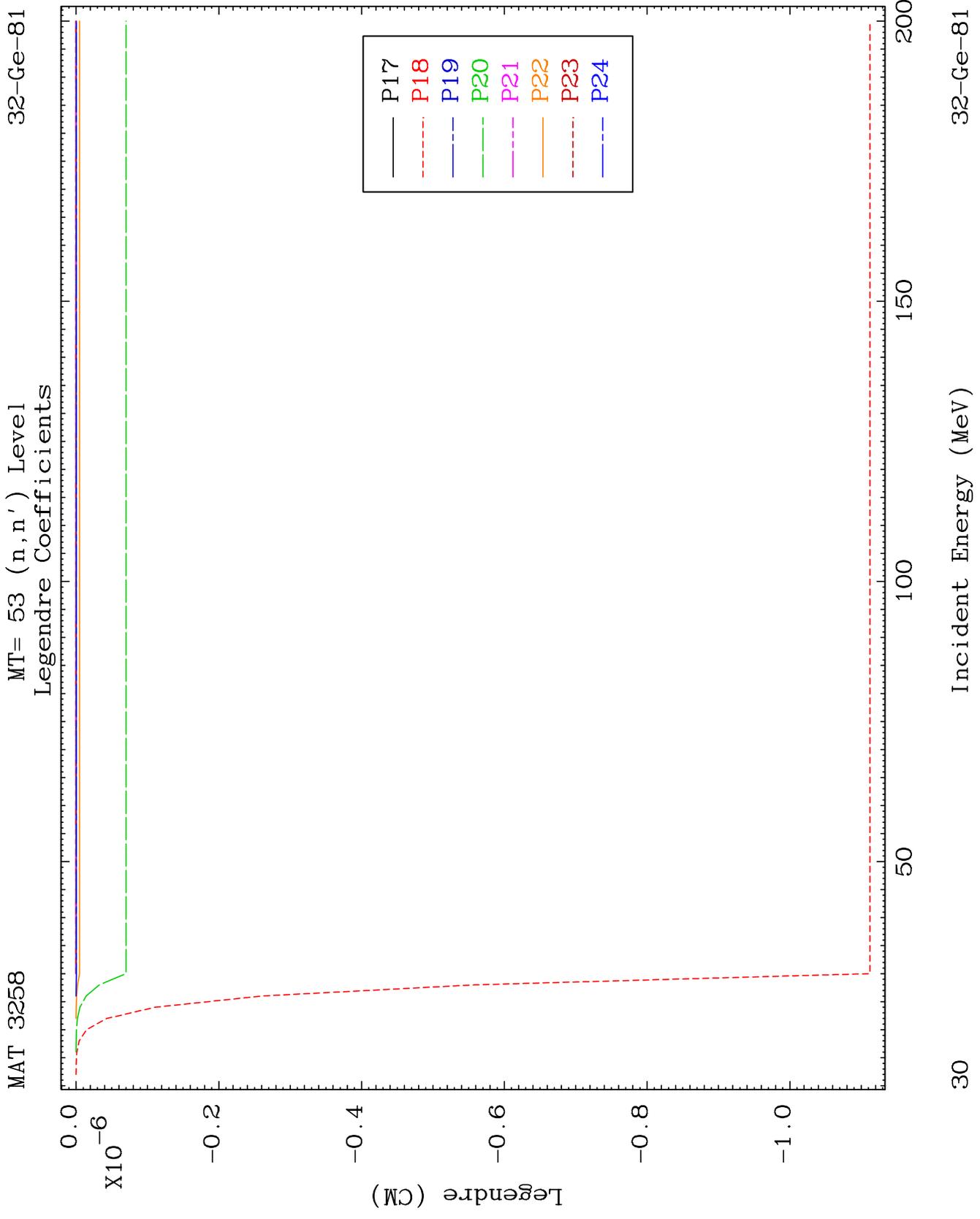
MT= 53 (n,n') Level  
Legendre Coefficients

32-Ge-81



29

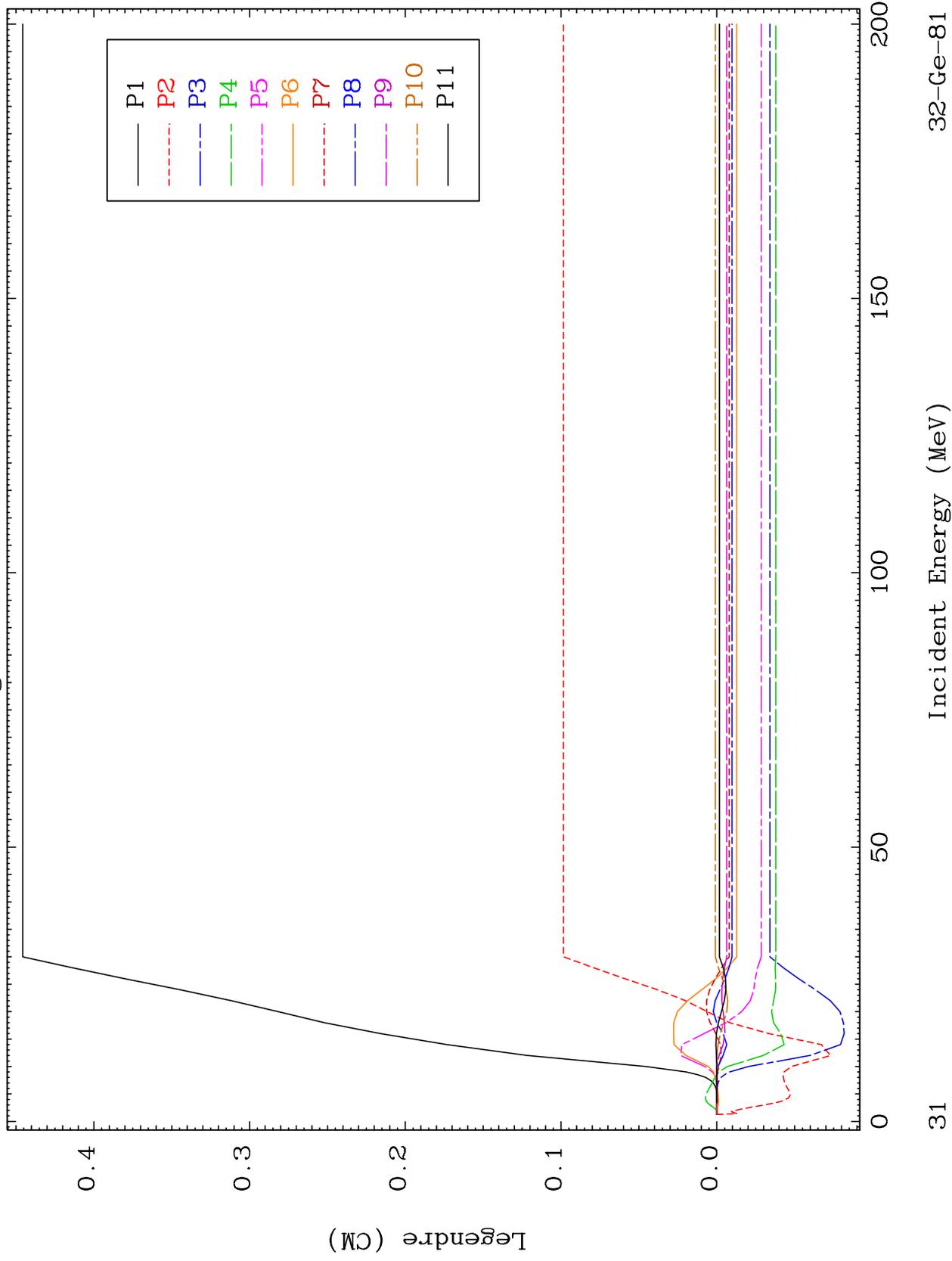
32-Ge-81



MAT 3258

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

32-Ge-81



32-Ge-81

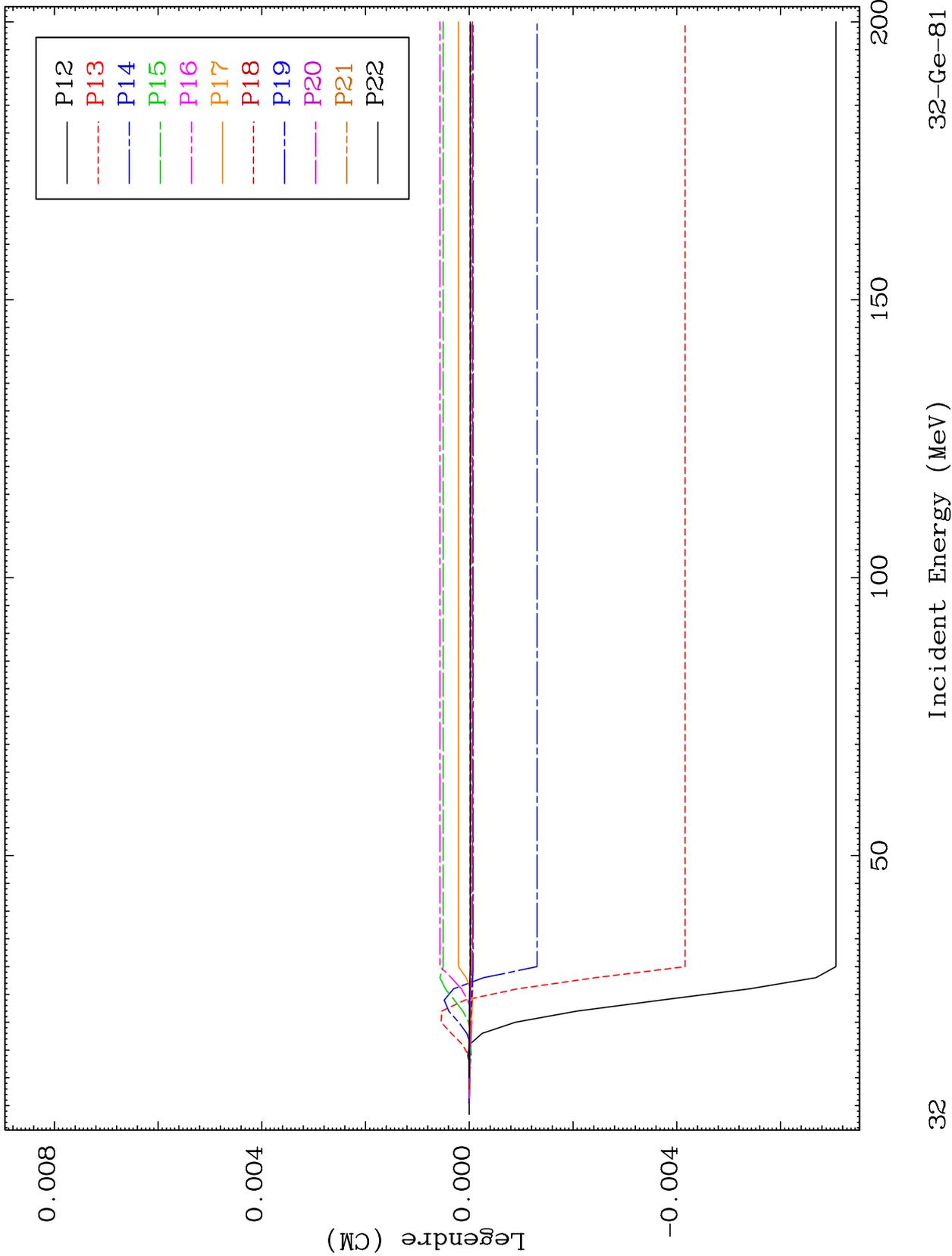
Incident Energy (MeV)

31

MAT 3258

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

32-Ge-81



32

Incident Energy (MeV)

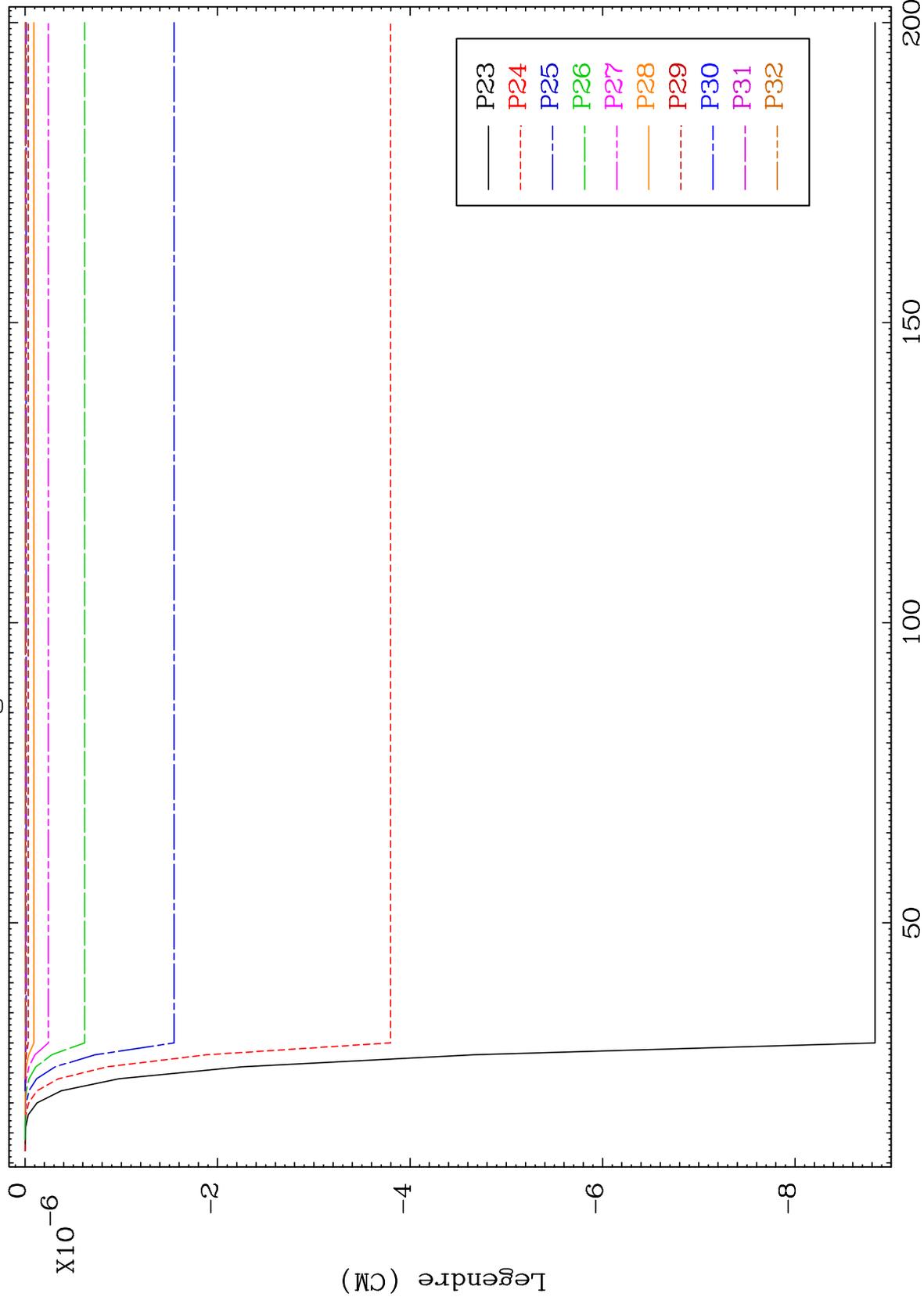
32-Ge-81

MAT 3258

MT= 54 (n,n') Level

32-Ge-81

Legendre Coefficients



33

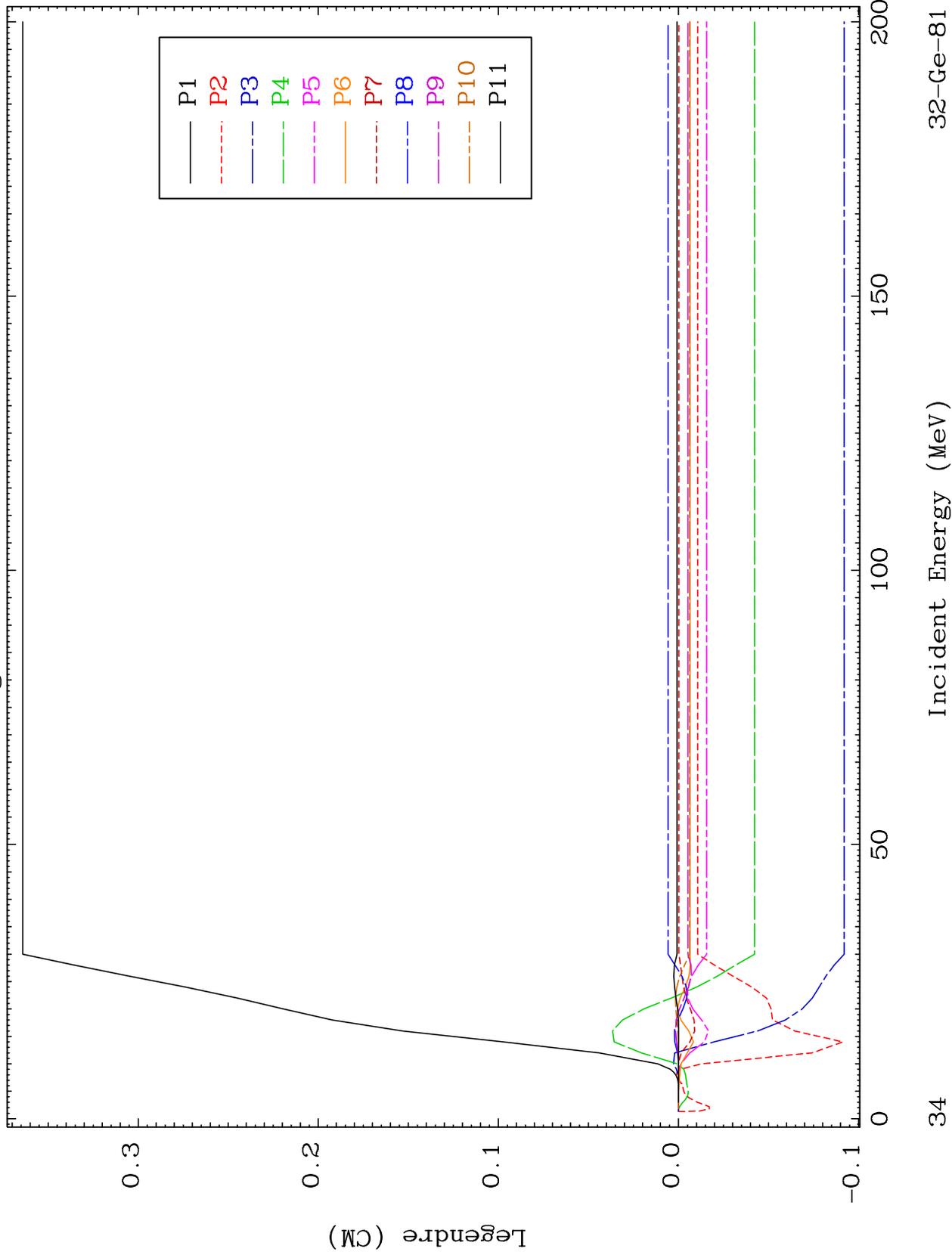
Incident Energy (MeV)

32-Ge-81

MAT 3258

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

32-Ge-81



32-Ge-81

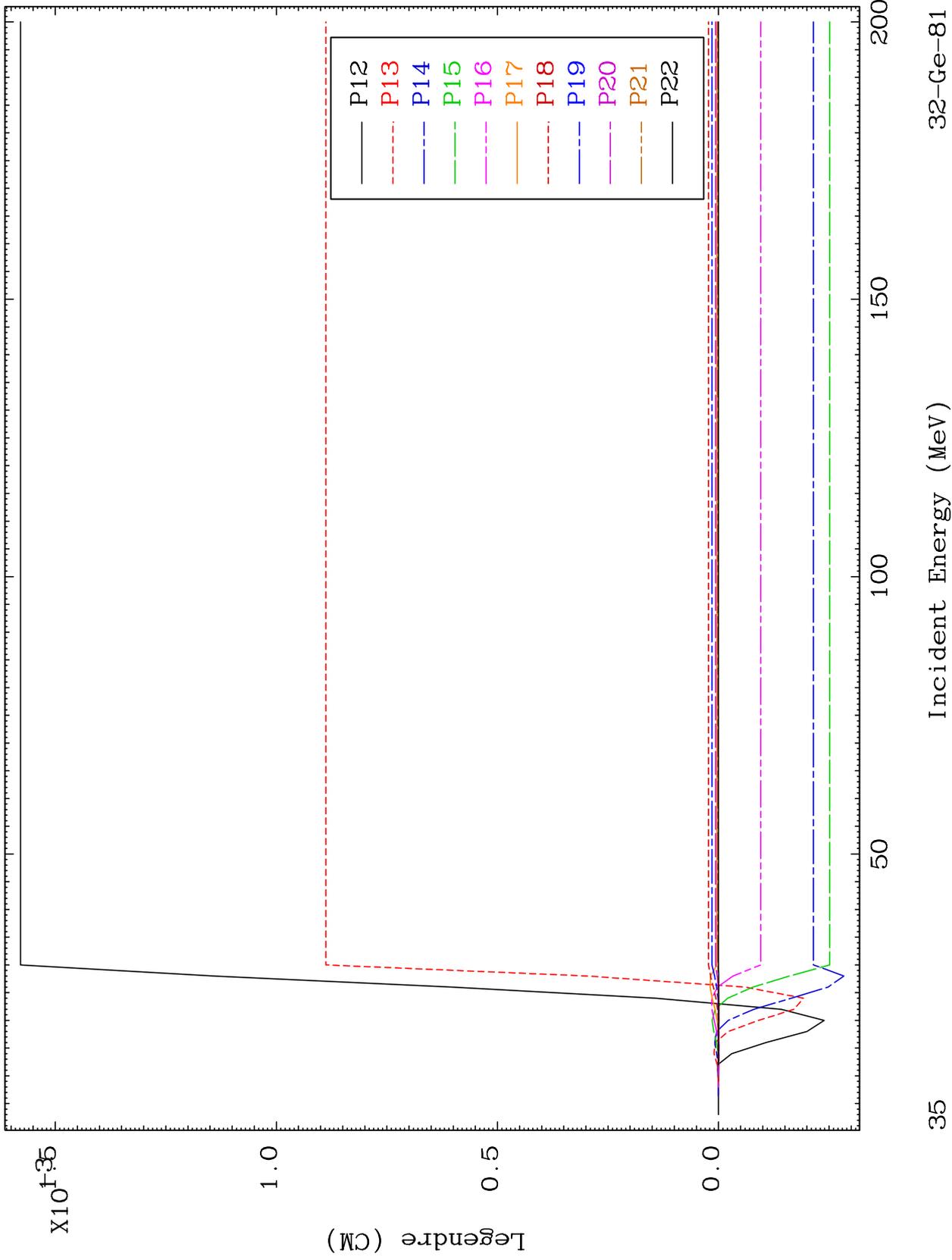
Incident Energy (MeV)

34

MAT 3258

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

32-Ge-81



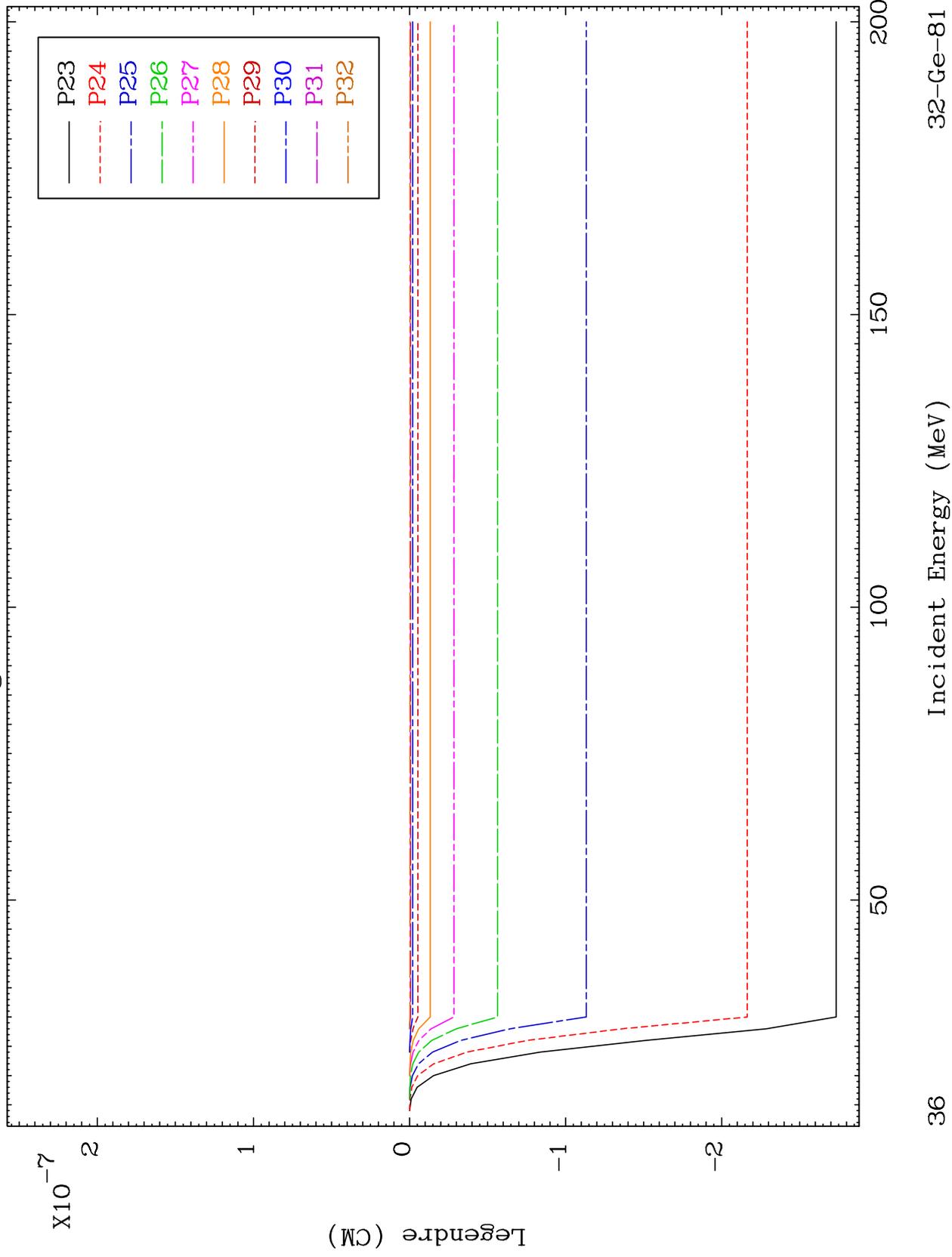
35

32-Ge-81

MAT 3258

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

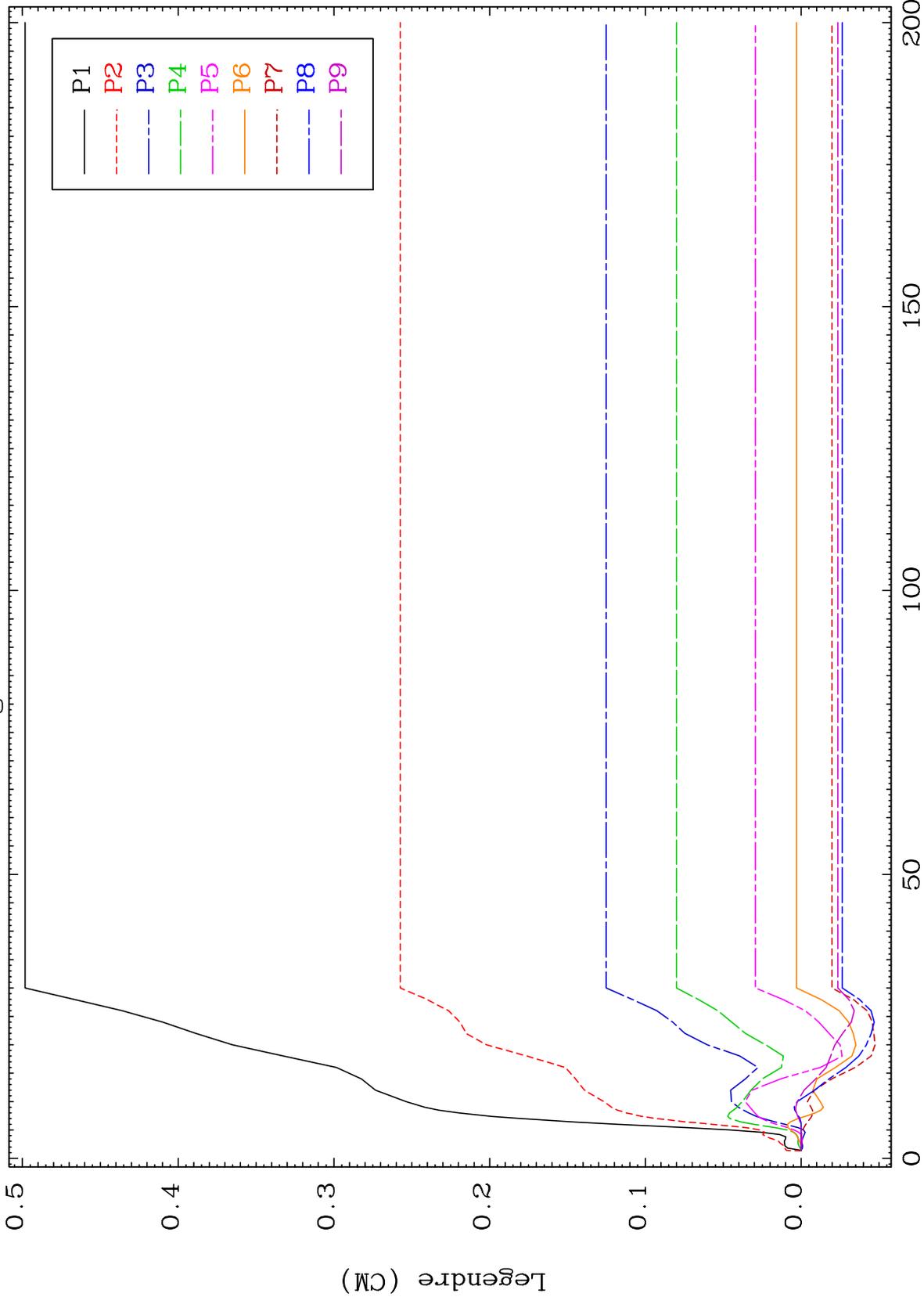
32-Ge-81



MAT 3258

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

32-Ge-81



37

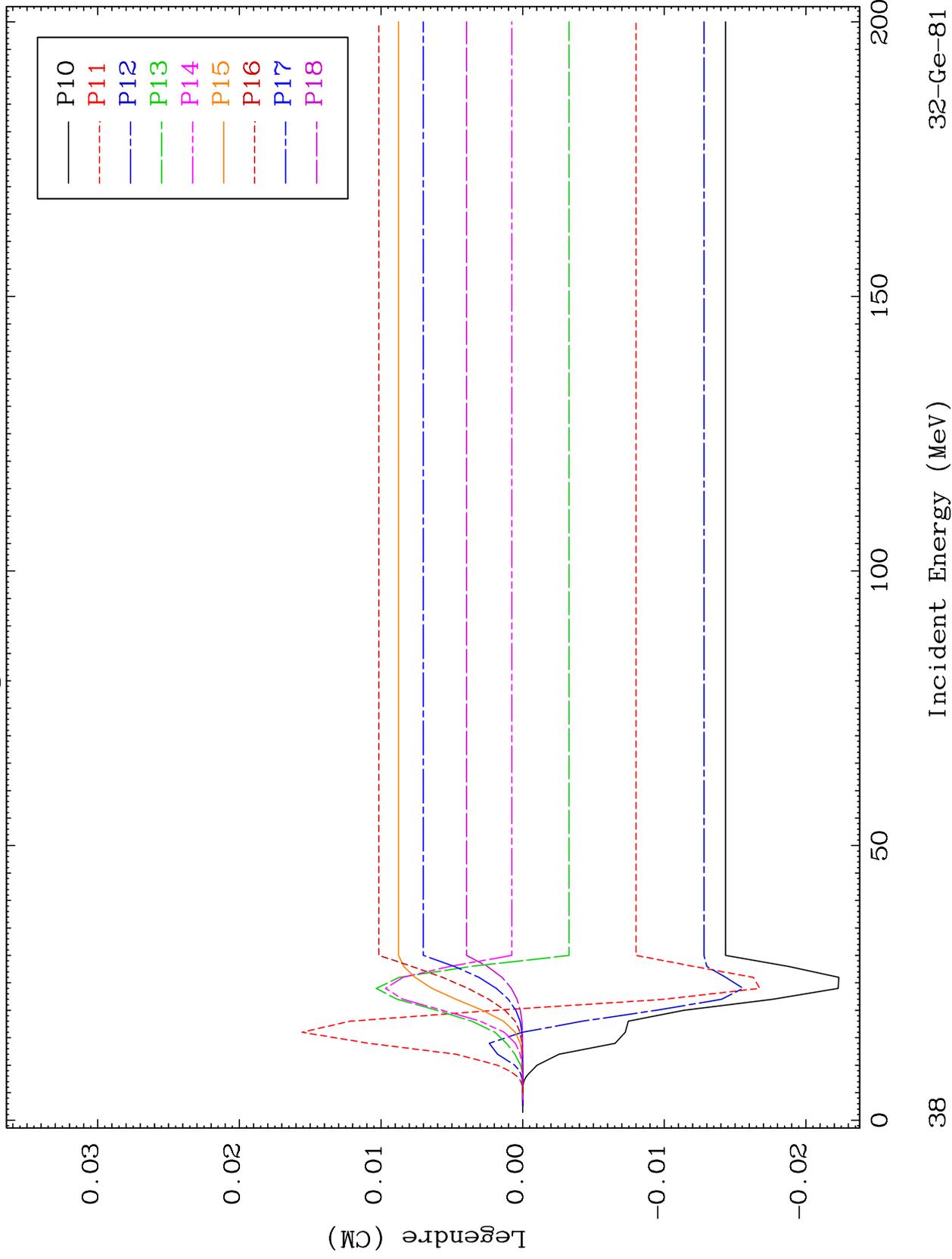
Incident Energy (MeV)

32-Ge-81

MAT 3258

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

32-Ge-81



32-Ge-81

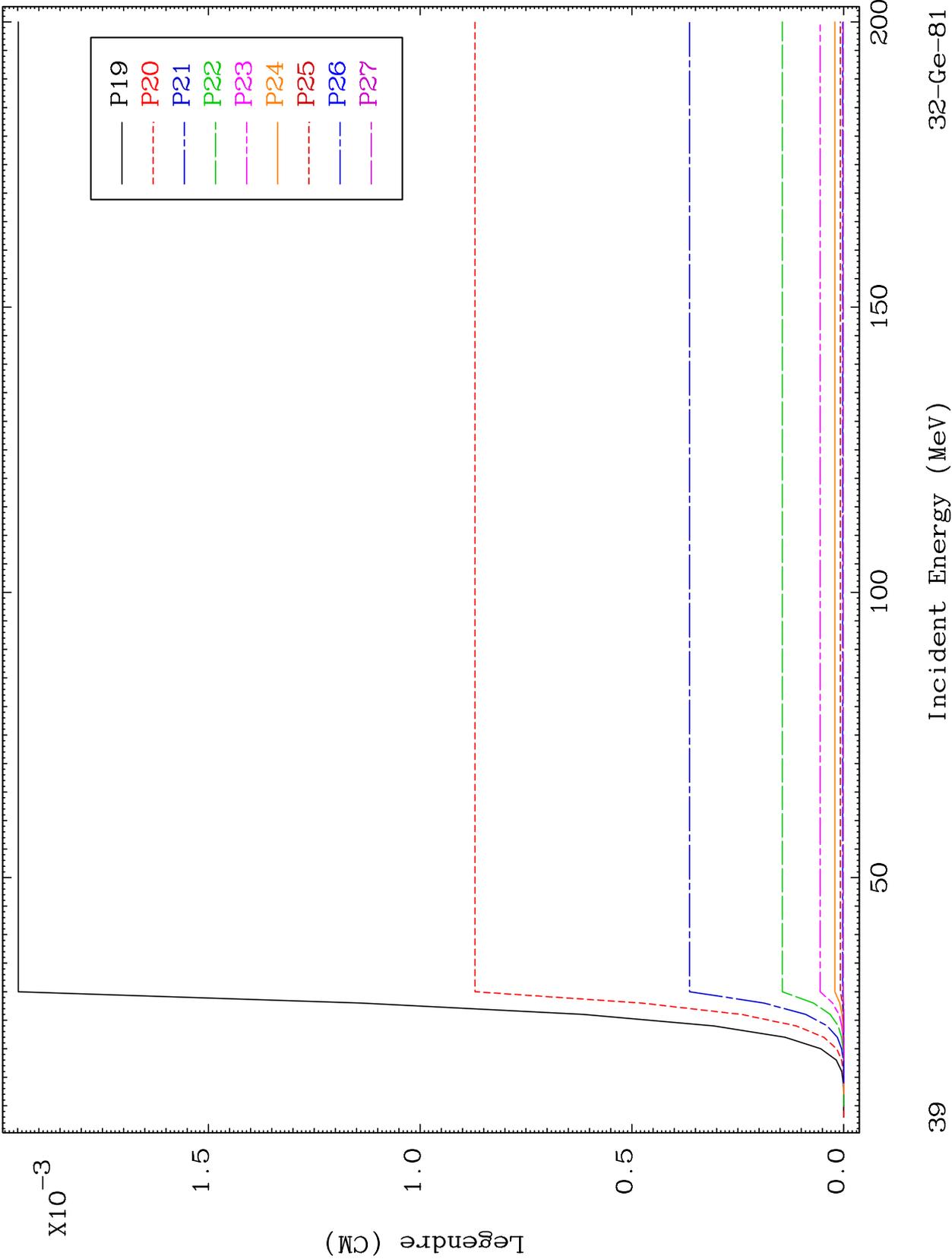
Incident Energy (MeV)

38

MAT 3258

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

32-Ge-81



39

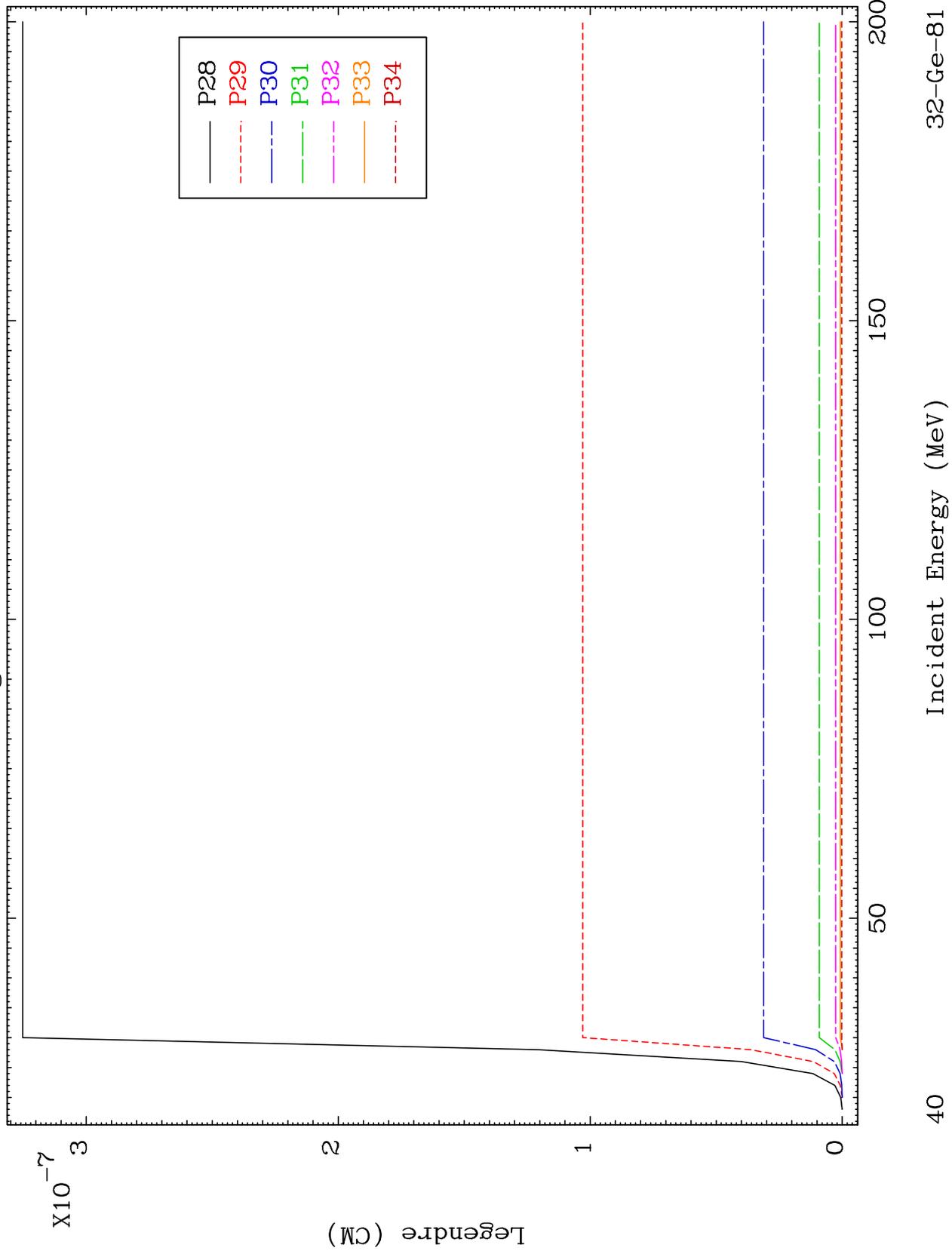
Incident Energy (MeV)

32-Ge-81

MAT 3258

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

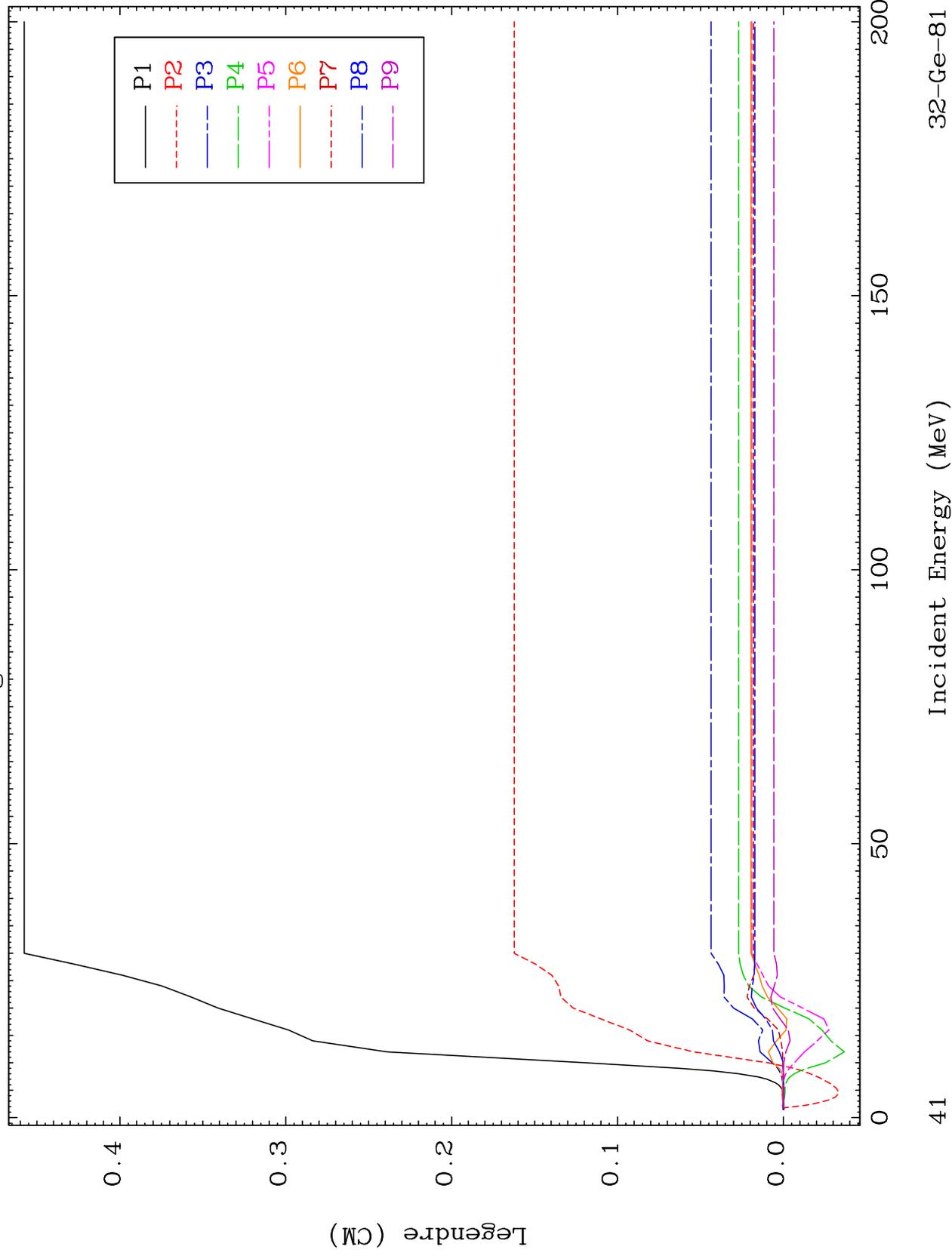
32-Ge-81



MAT 3258

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

32-Ge-81



41

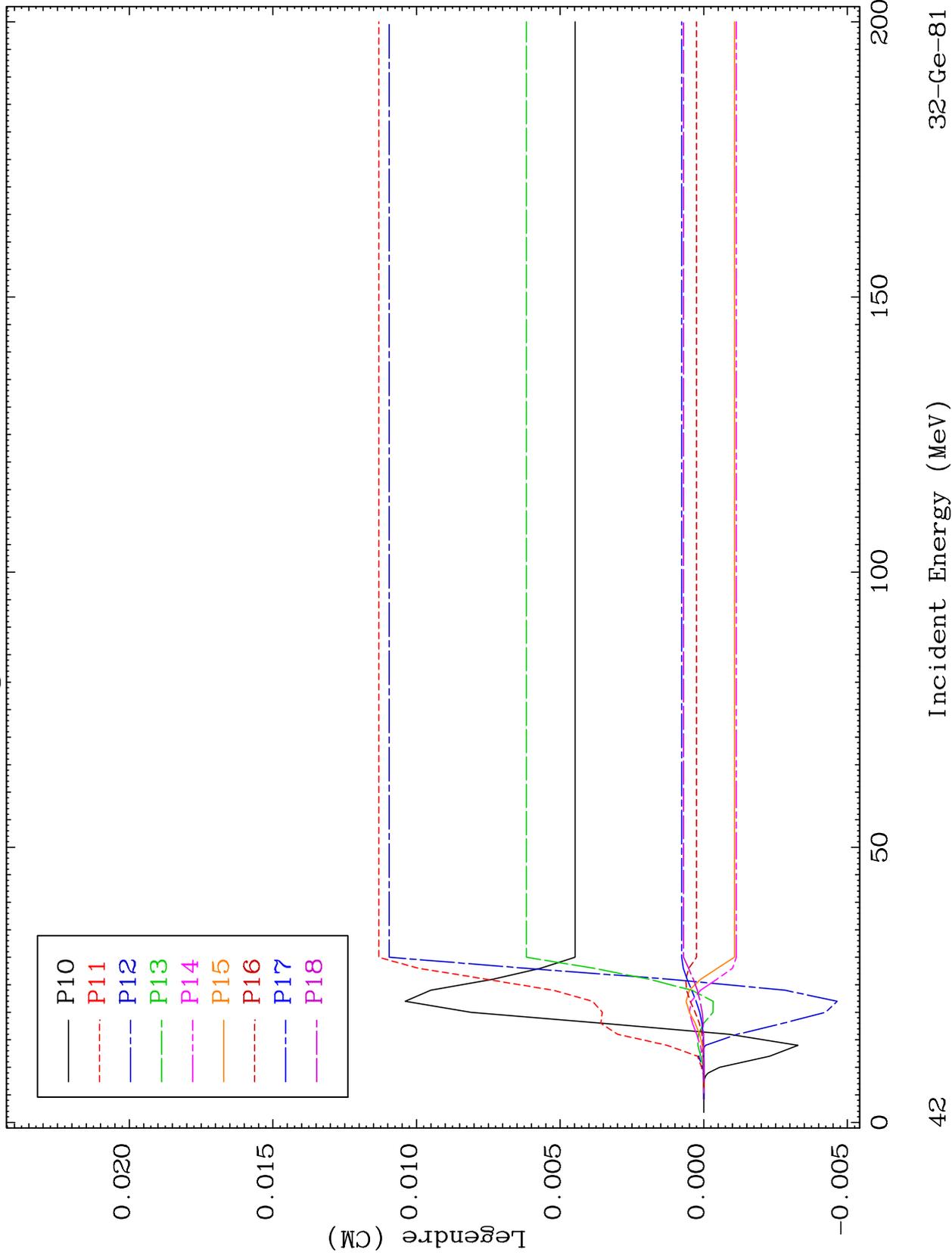
Incident Energy (MeV)

32-Ge-81

MAT 3258

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

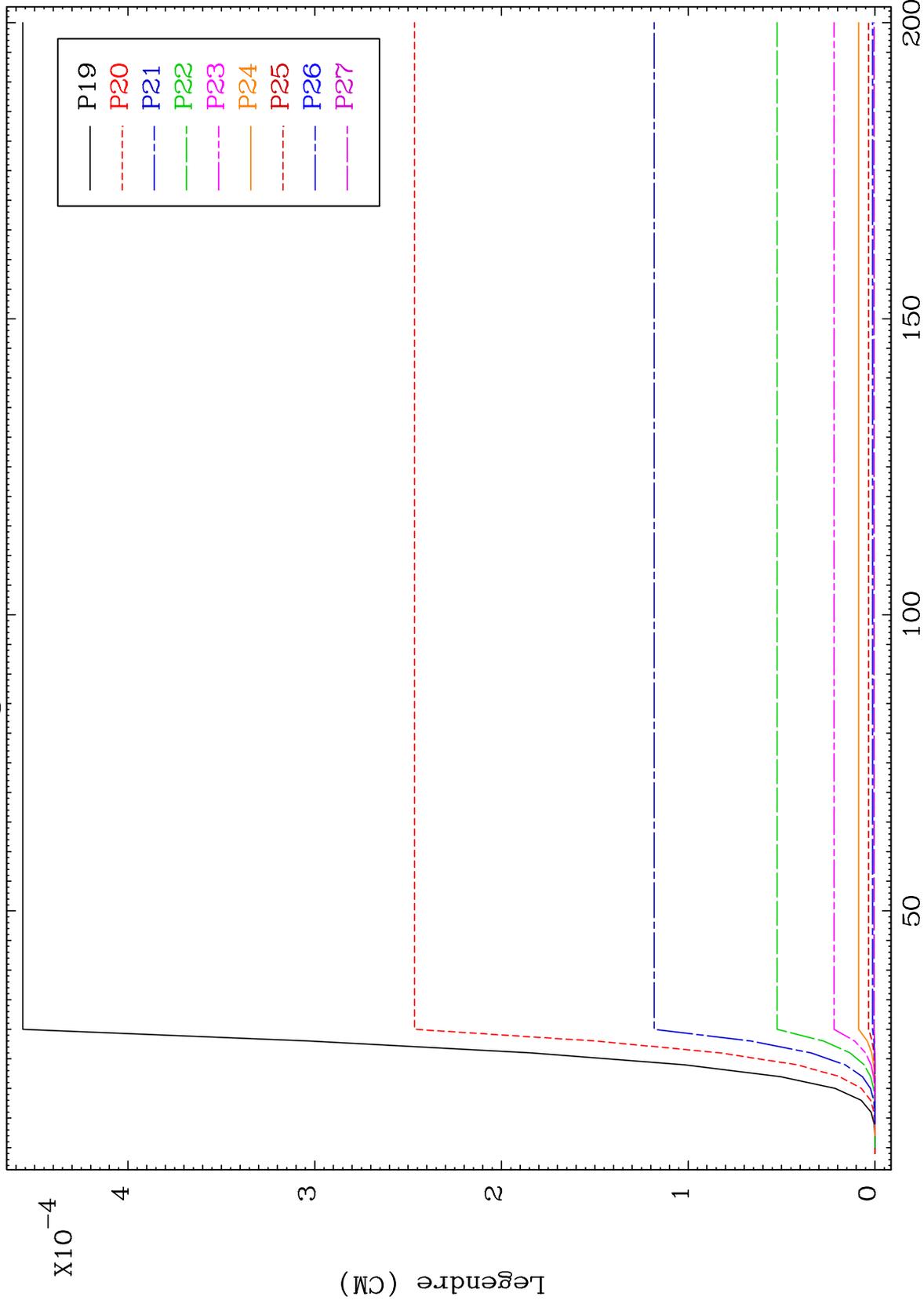
32-Ge-81



MAT 3258

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

32-Ge-81



43

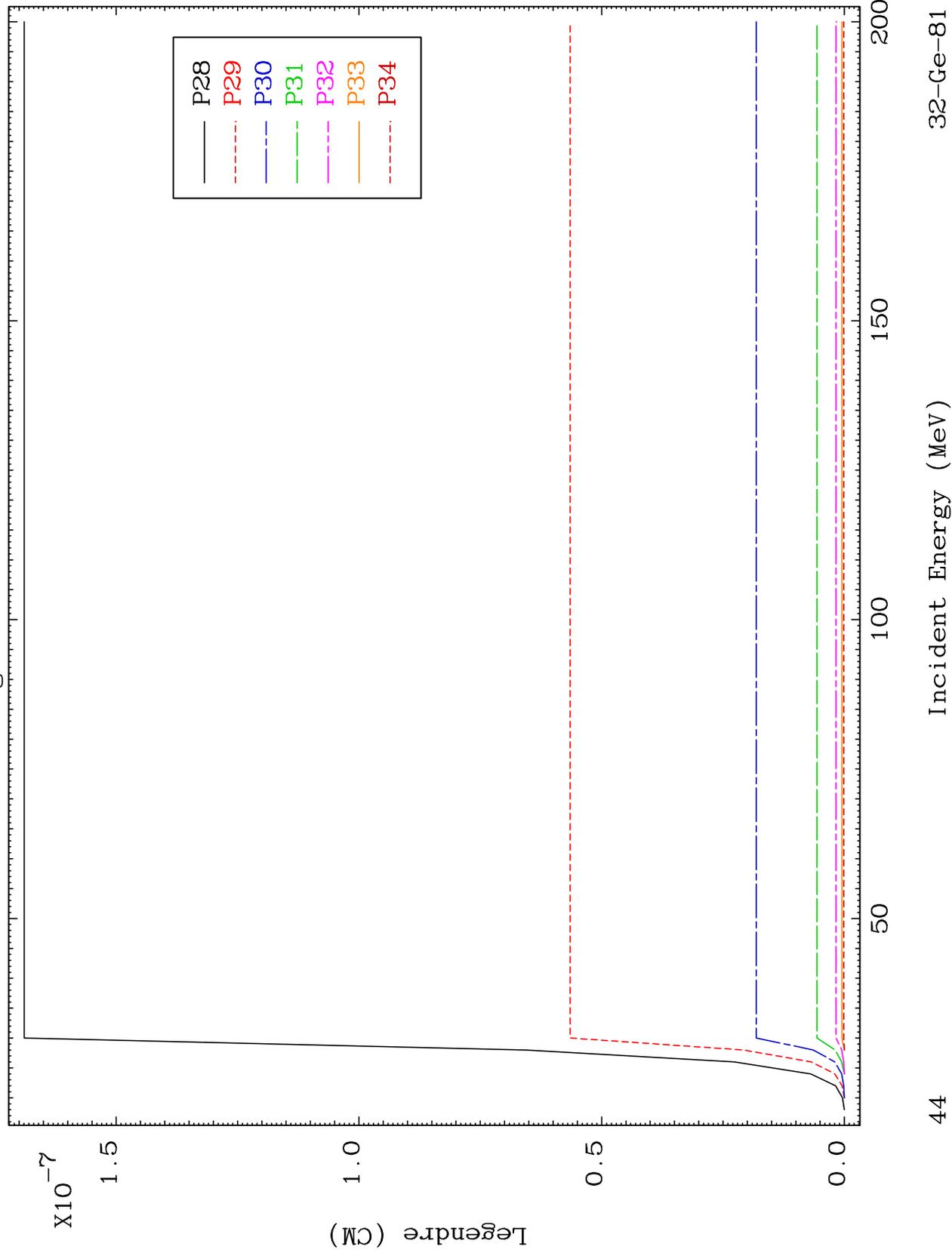
Incident Energy (MeV)

32-Ge-81

MAT 3258

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

32-Ge-81



44

Incident Energy (MeV)

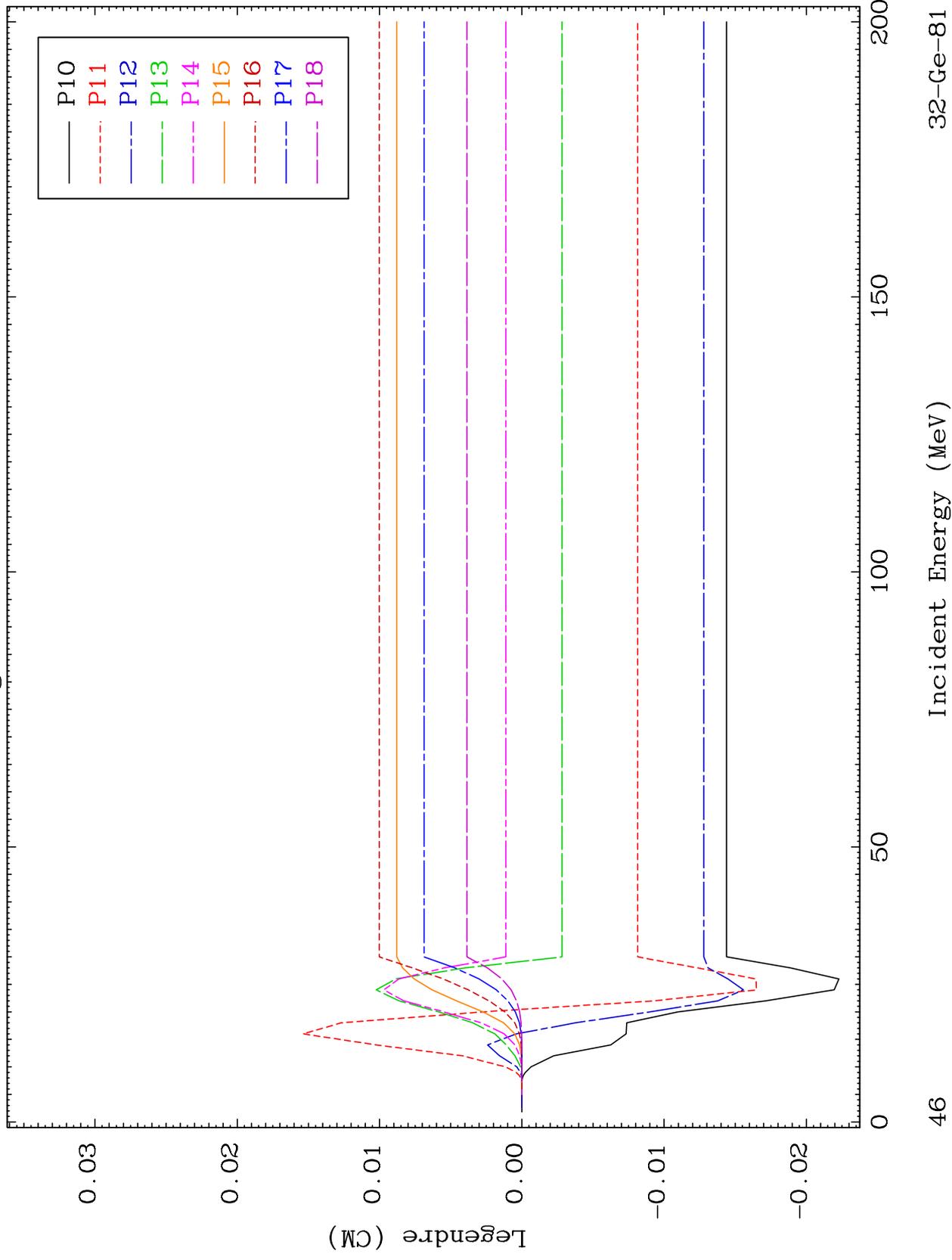
32-Ge-81



MAT 3258

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

32-Ge-81



46

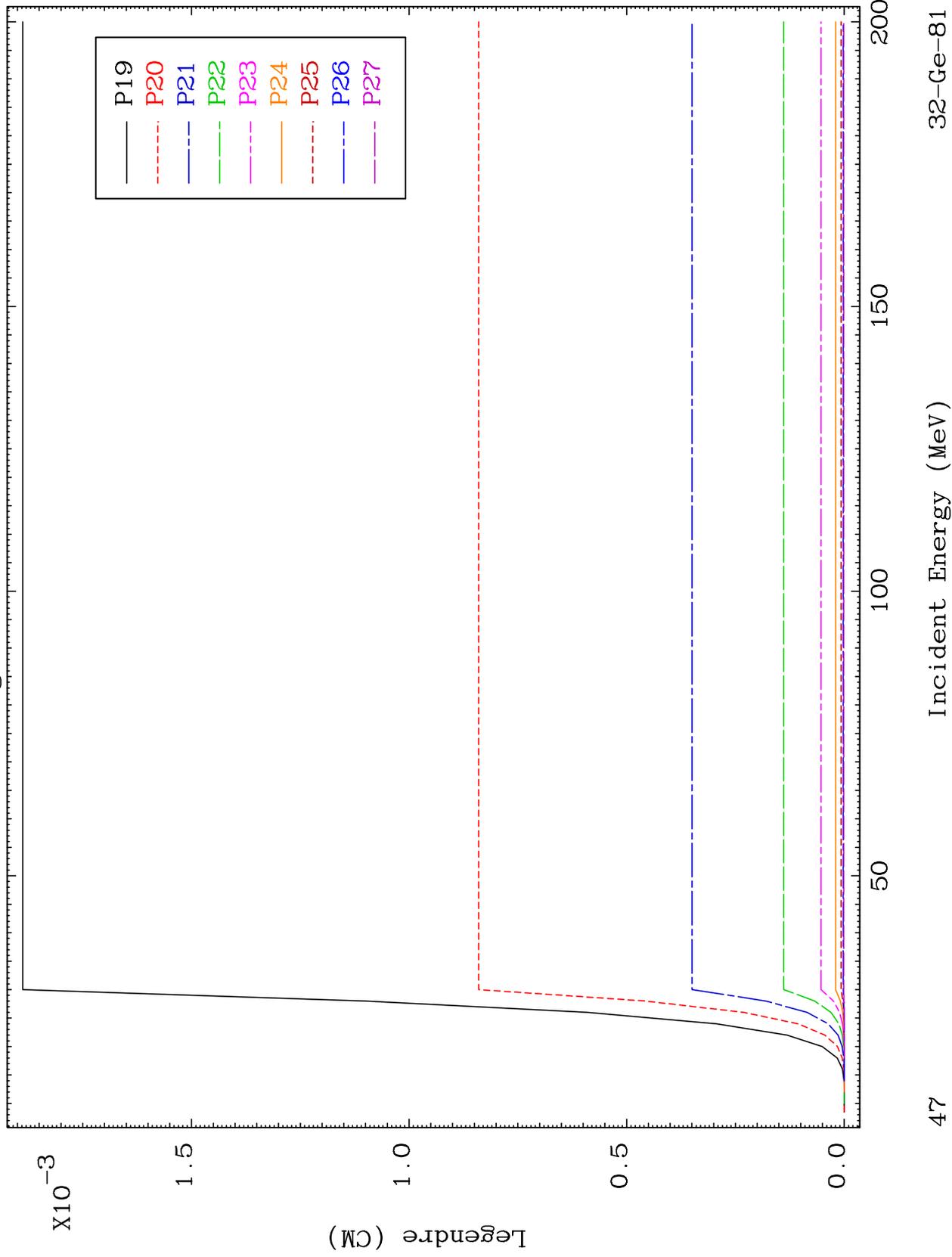
Incident Energy (MeV)

32-Ge-81

MAT 3258

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

32-Ge-81



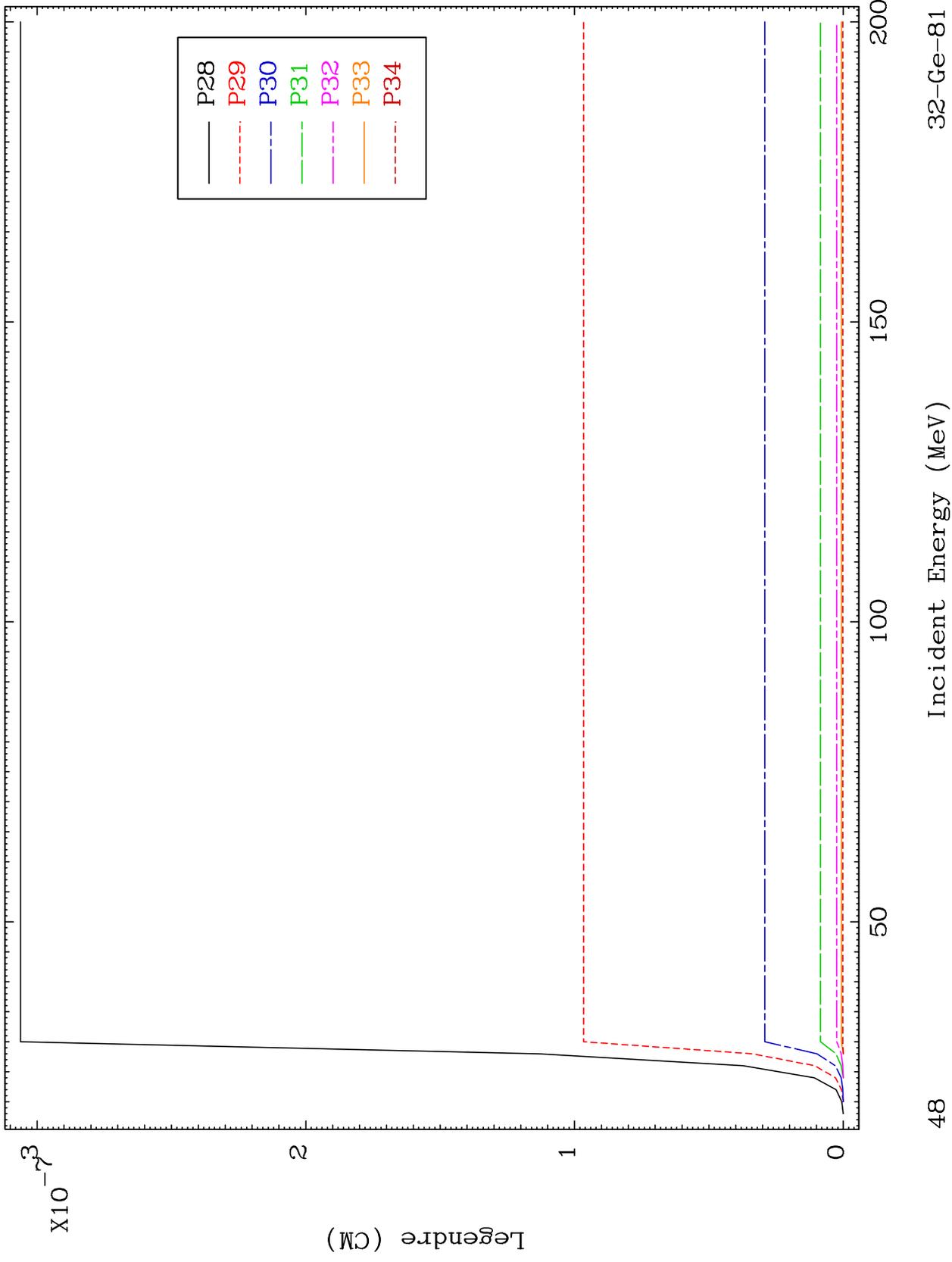
47

32-Ge-81

MAT 3258

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

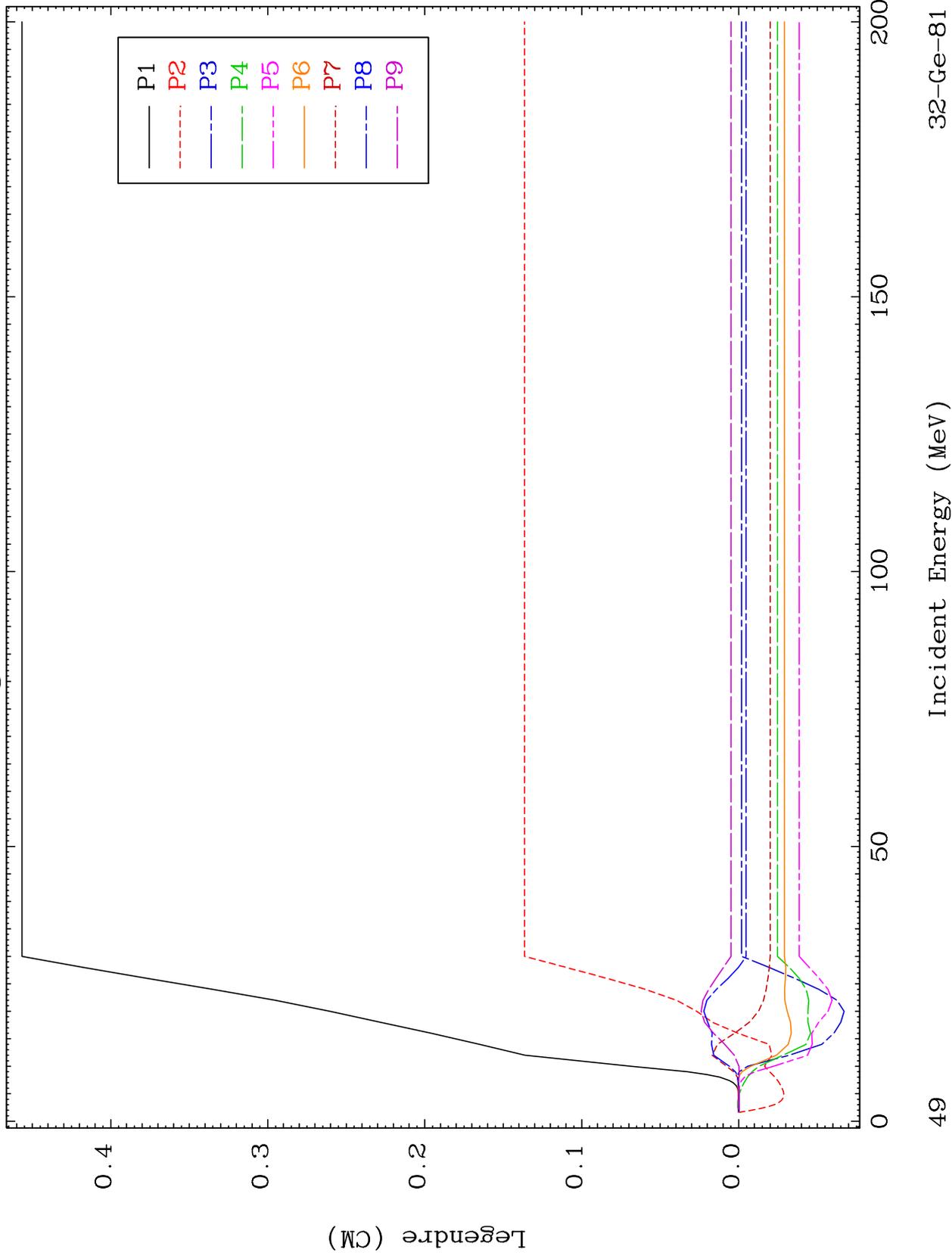
32-Ge-81



MAT 3258

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

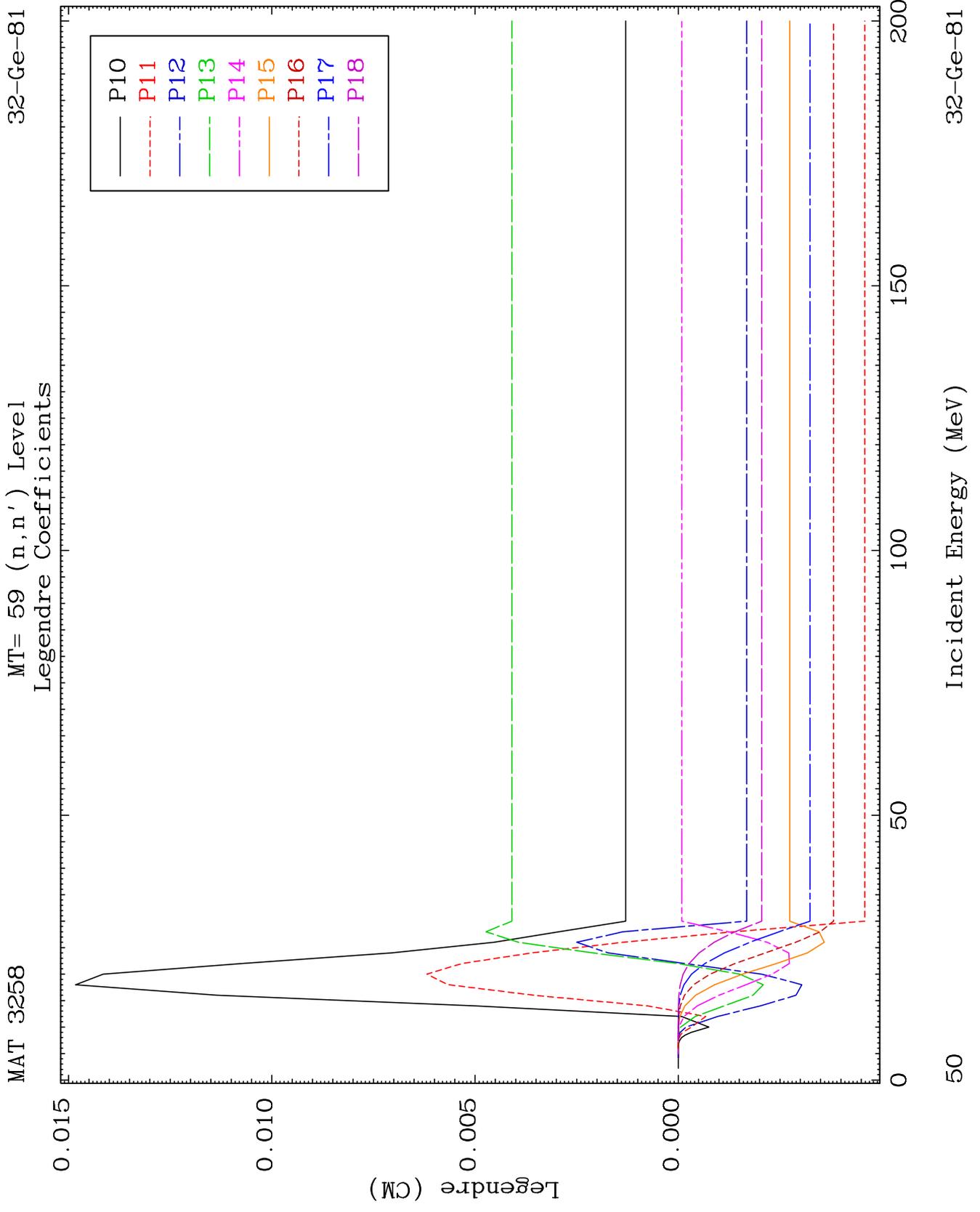
32-Ge-81

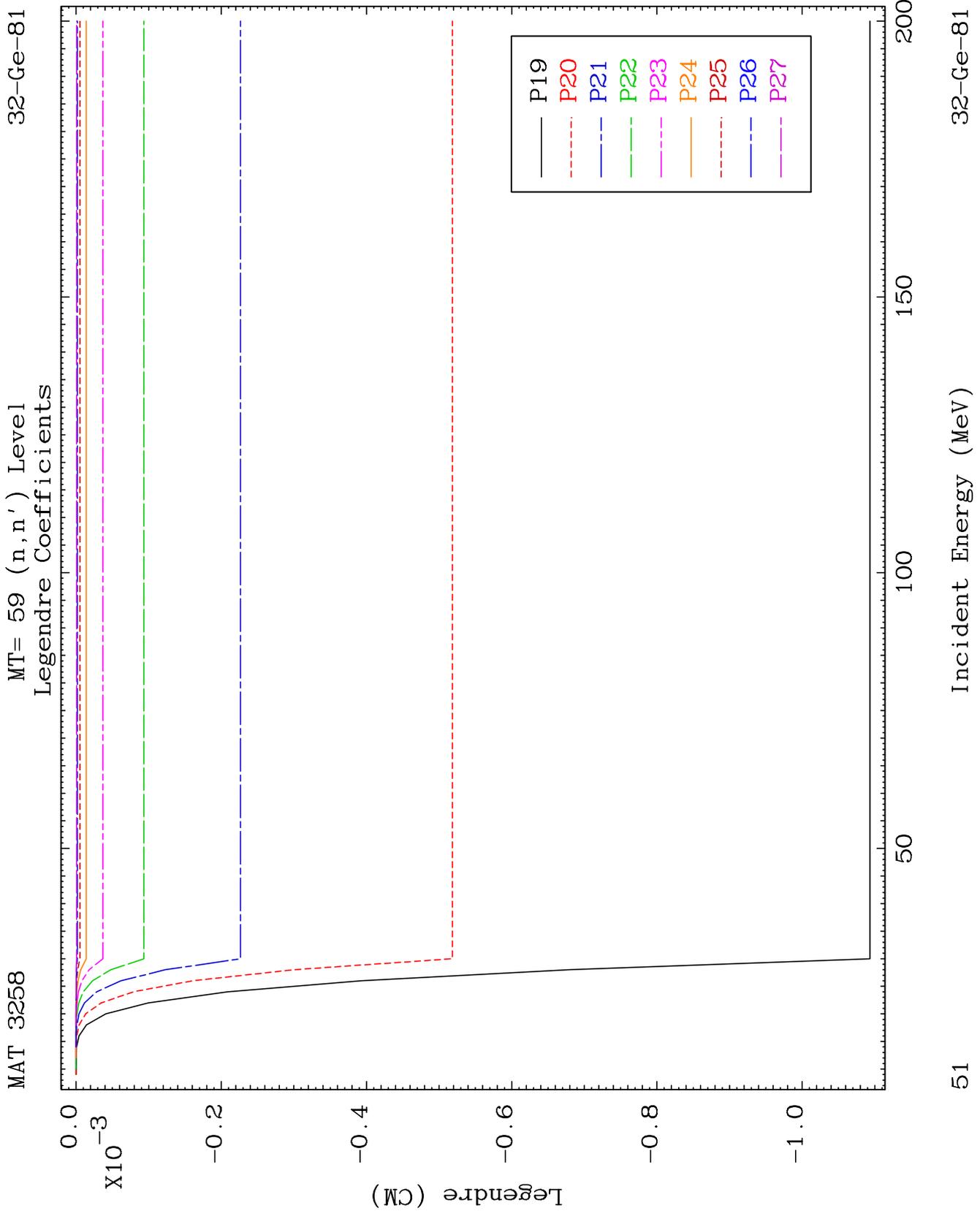


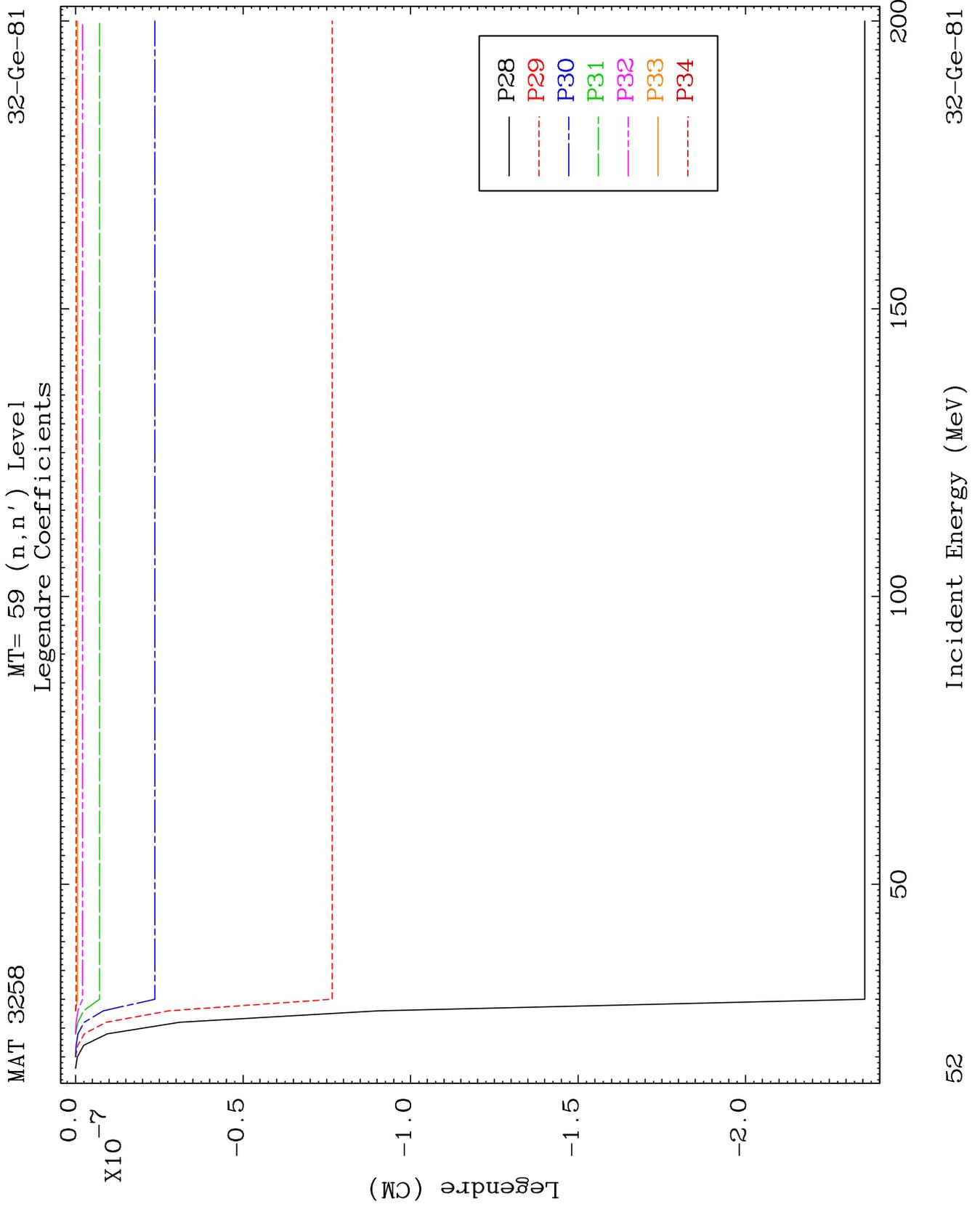
32-Ge-81

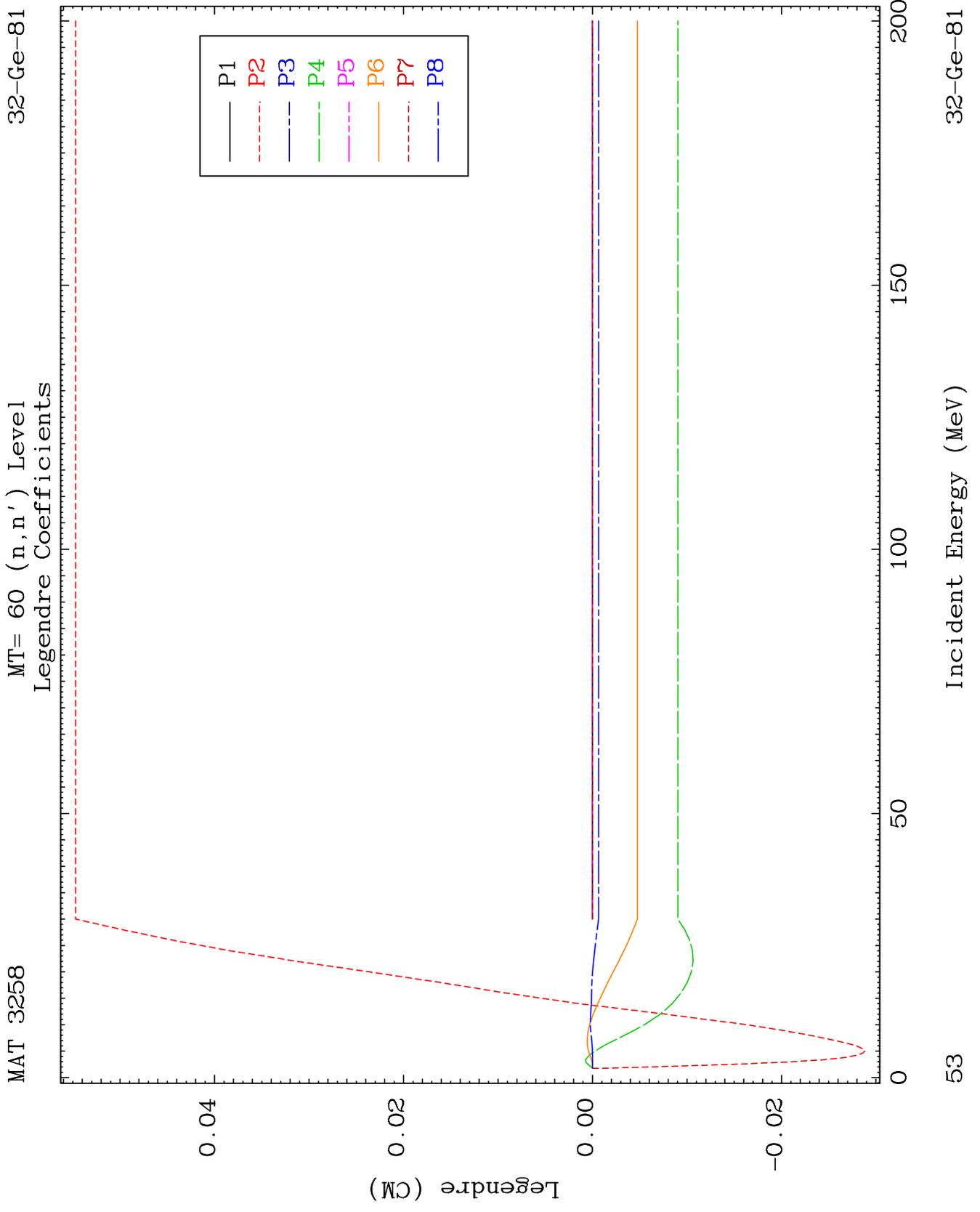
Incident Energy (MeV)

49





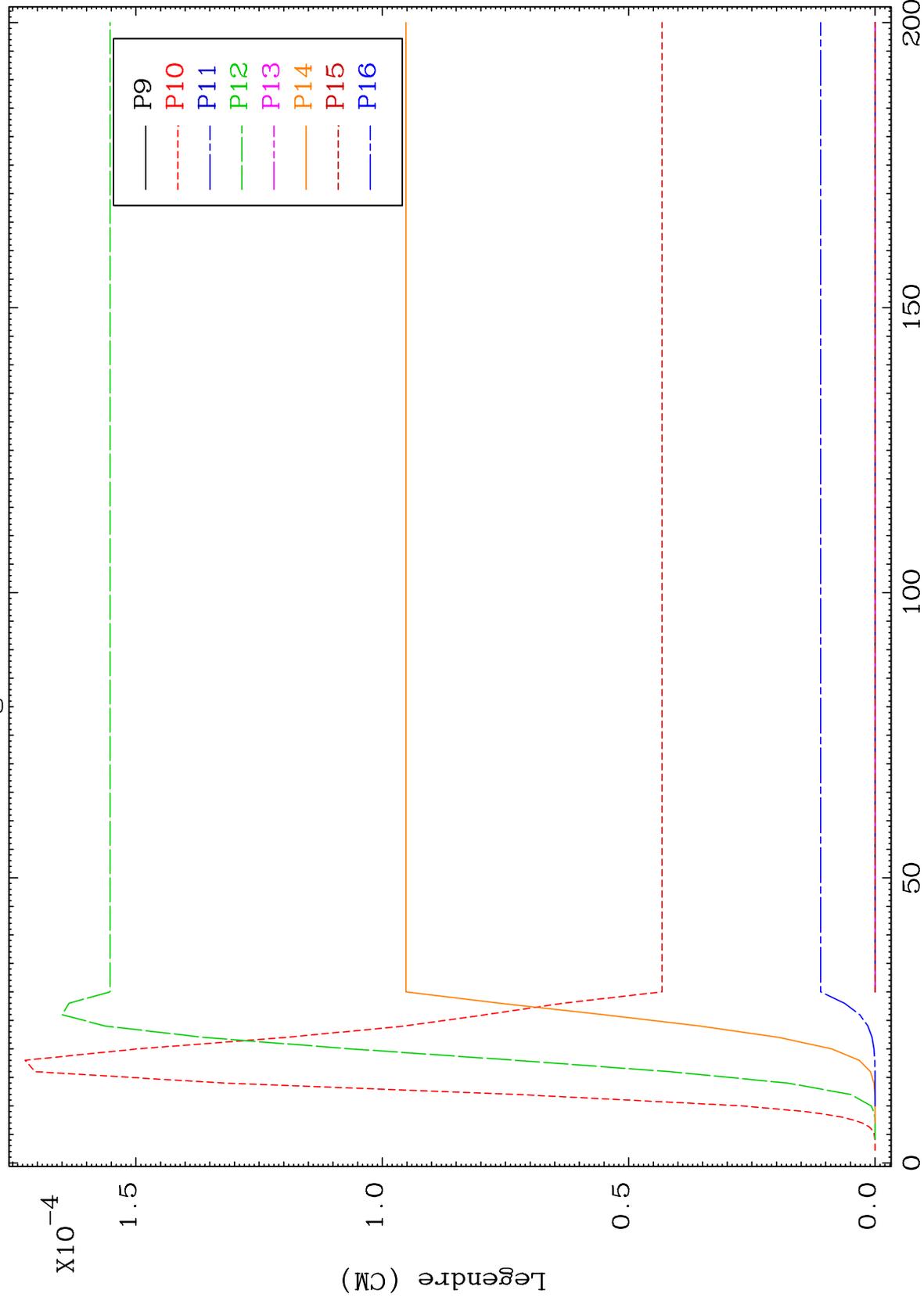




MAT 3258

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

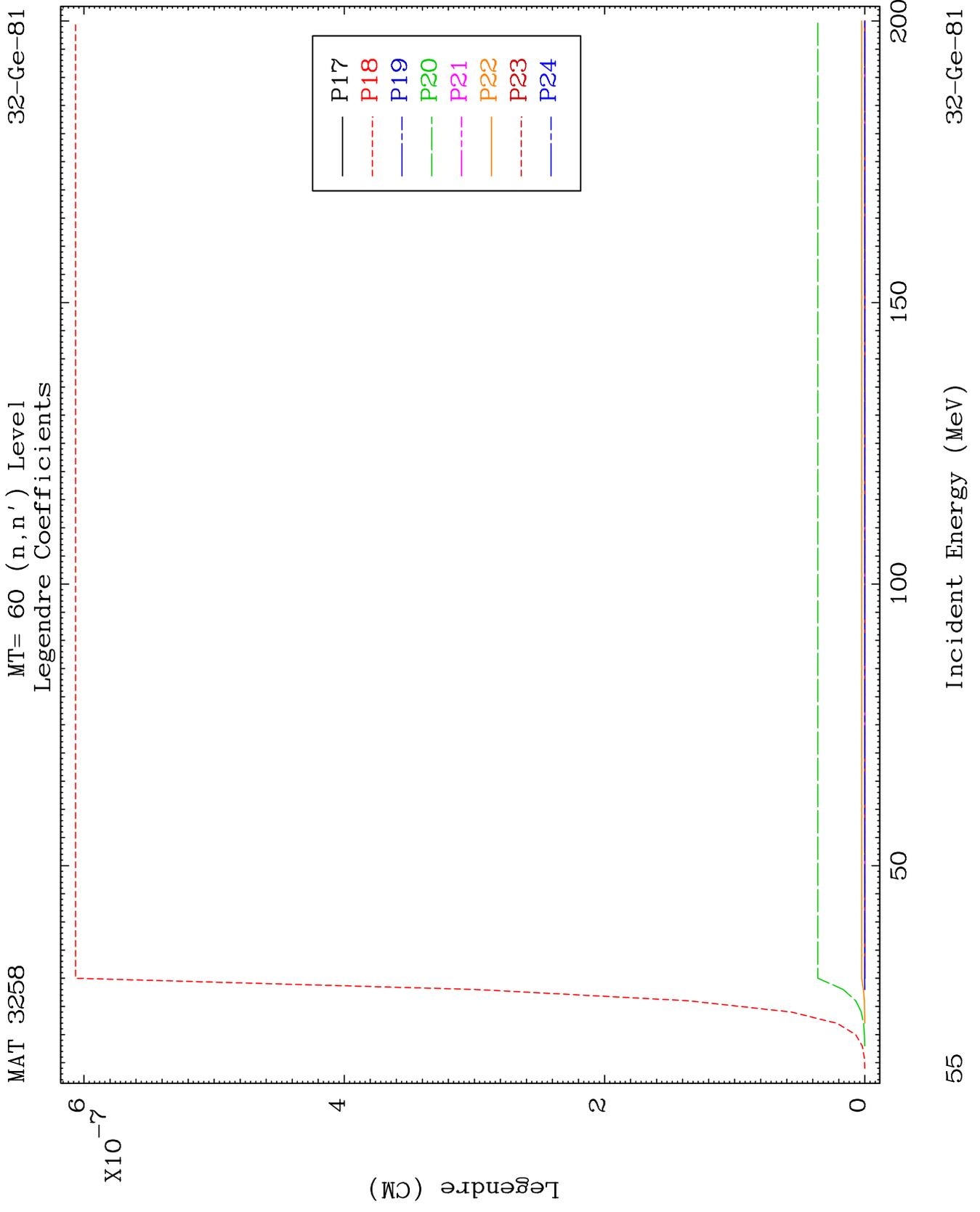
32-Ge-81



54

Incident Energy (MeV)

32-Ge-81

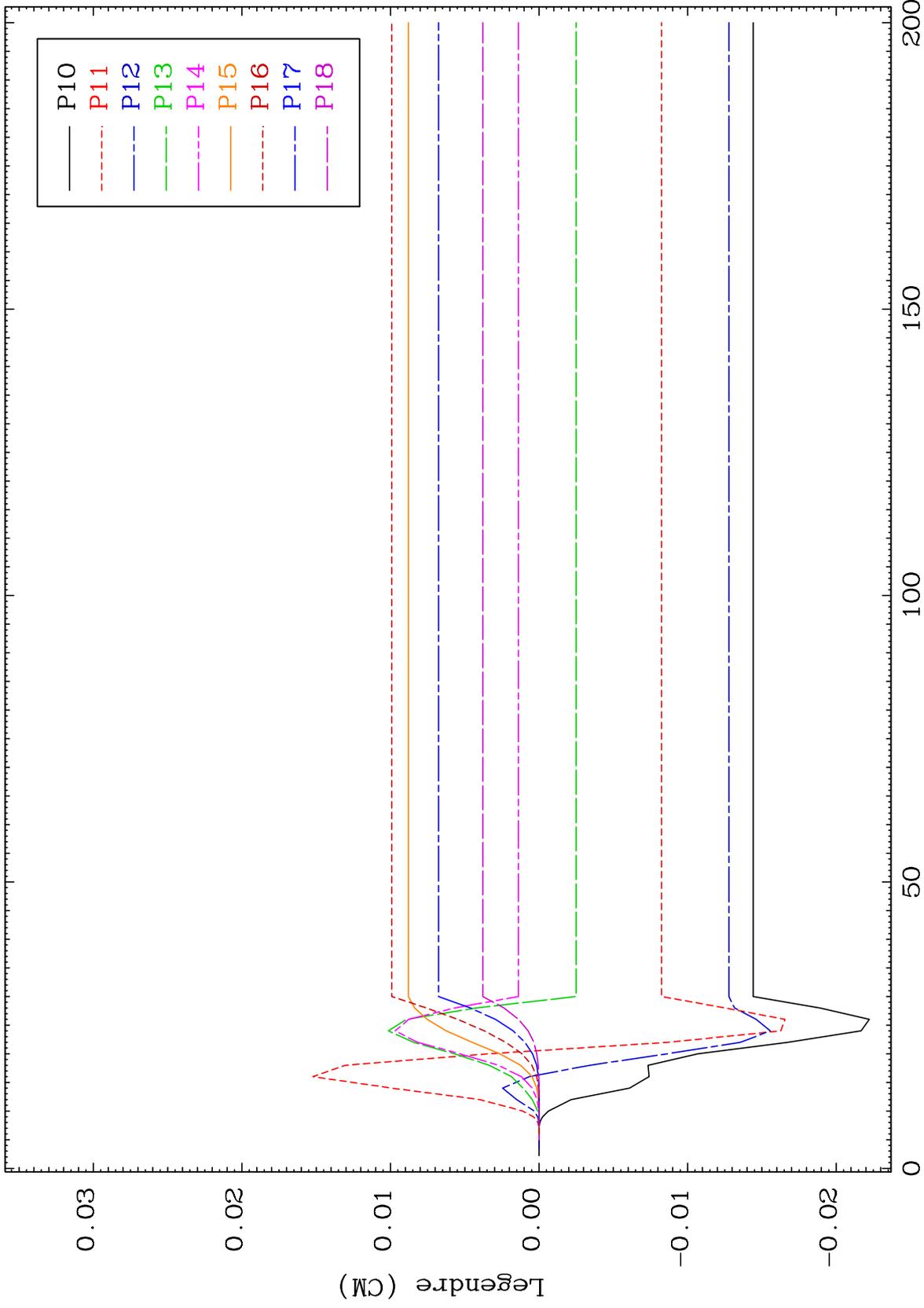




MAT 3258

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

32-Ge-81



57

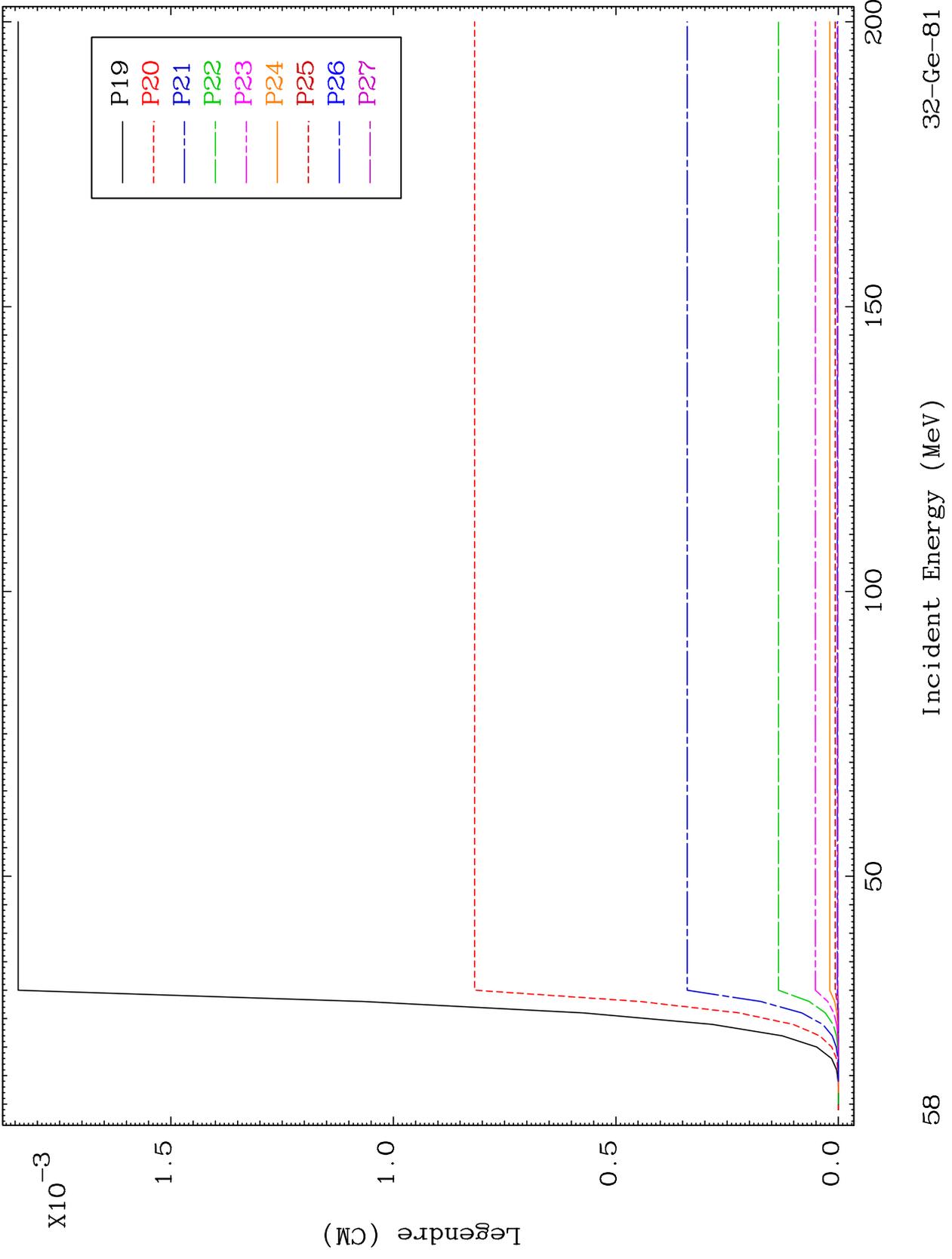
Incident Energy (MeV)

32-Ge-81

MAT 3258

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

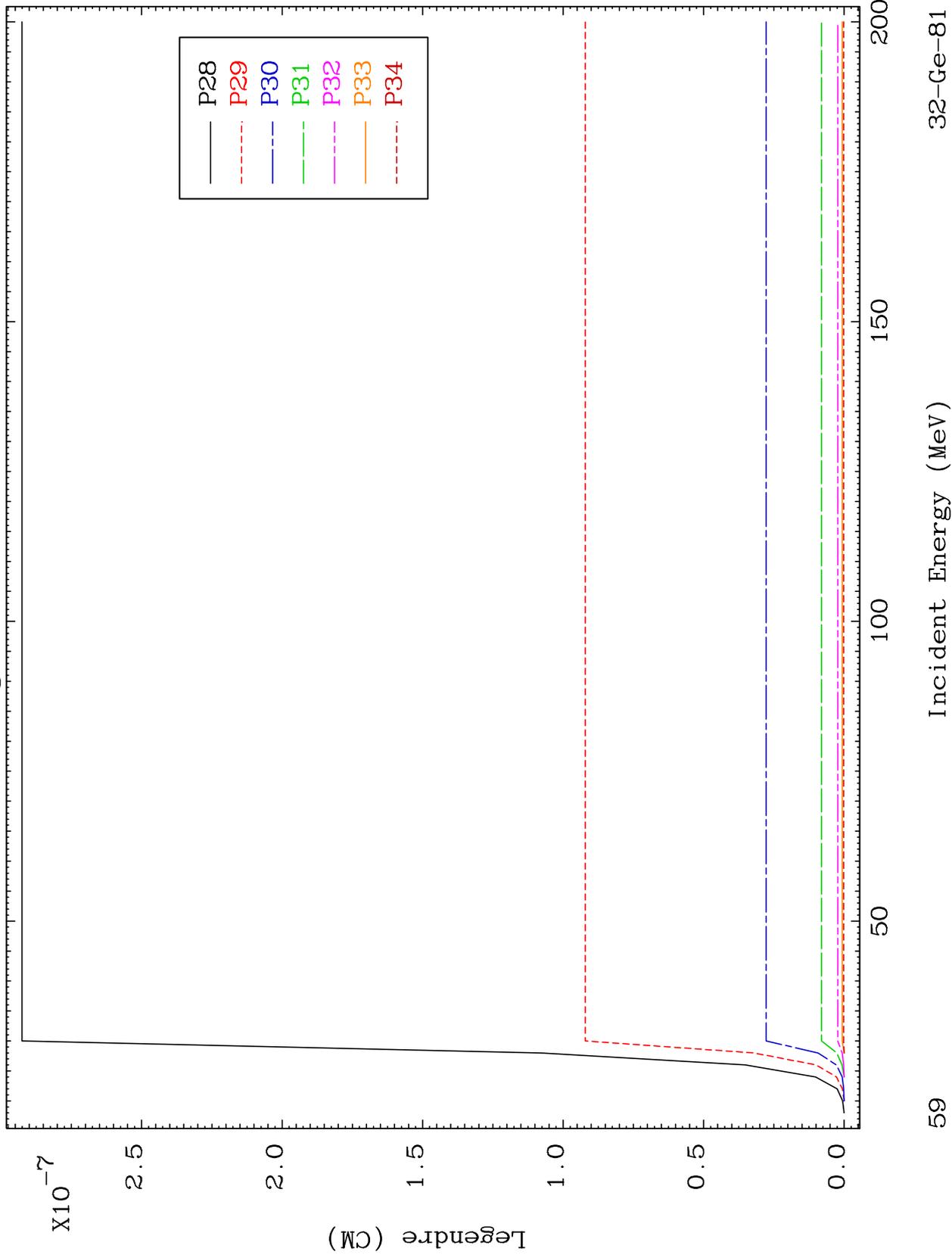
32-Ge-81



58

Incident Energy (MeV)

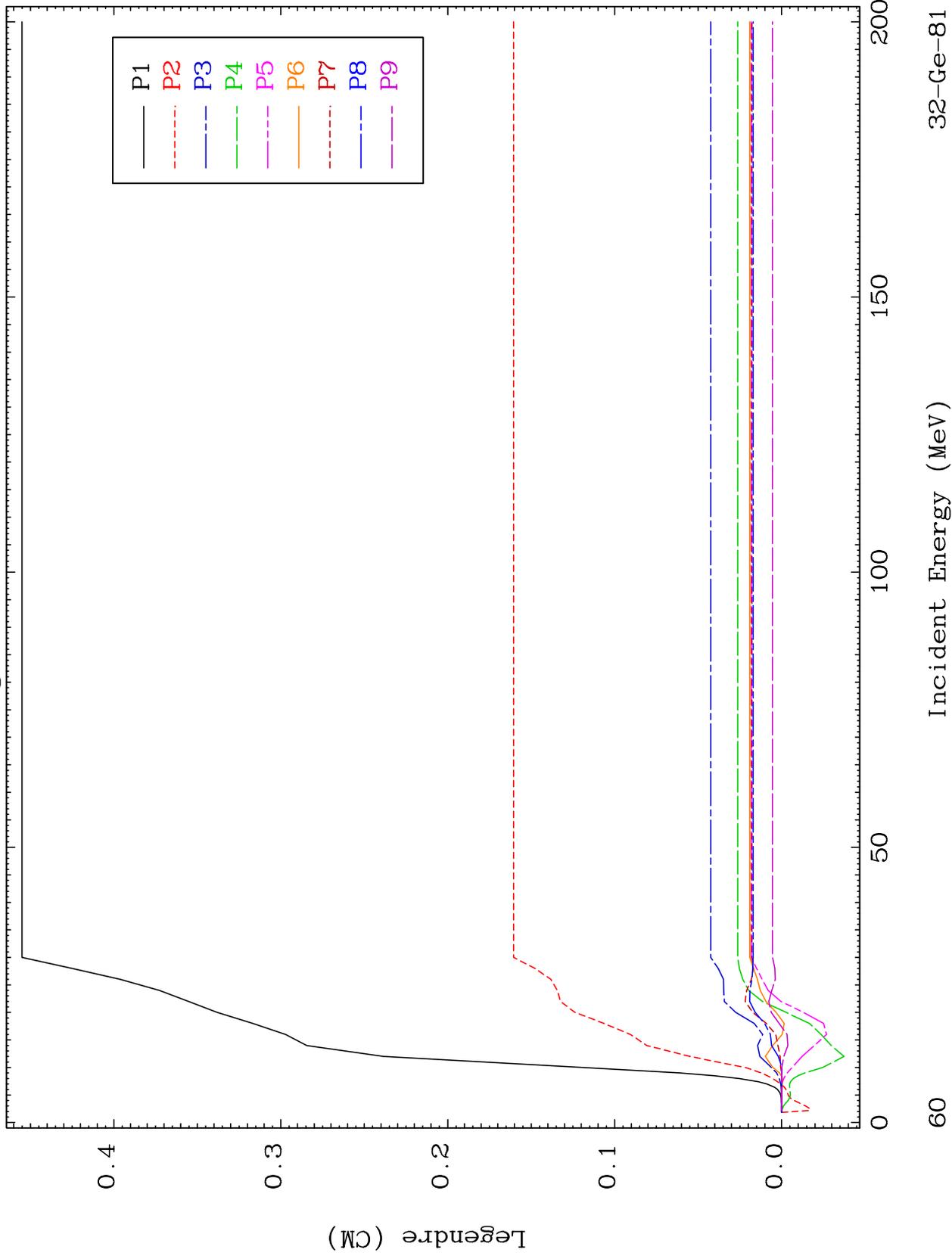
32-Ge-81



MAT 3258

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

32-Ge-81

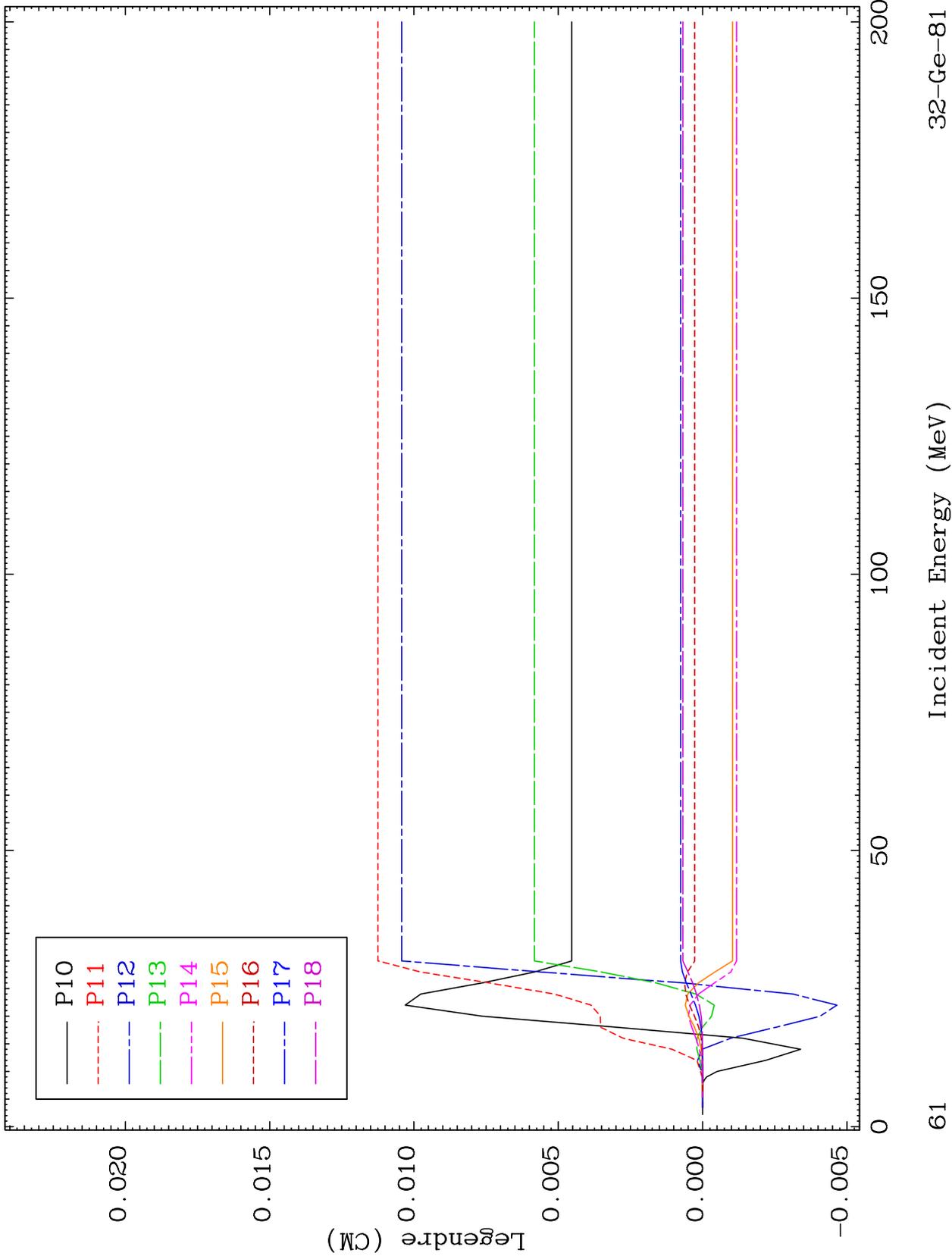


32-Ge-81

MAT 3258

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

32-Ge-81



61

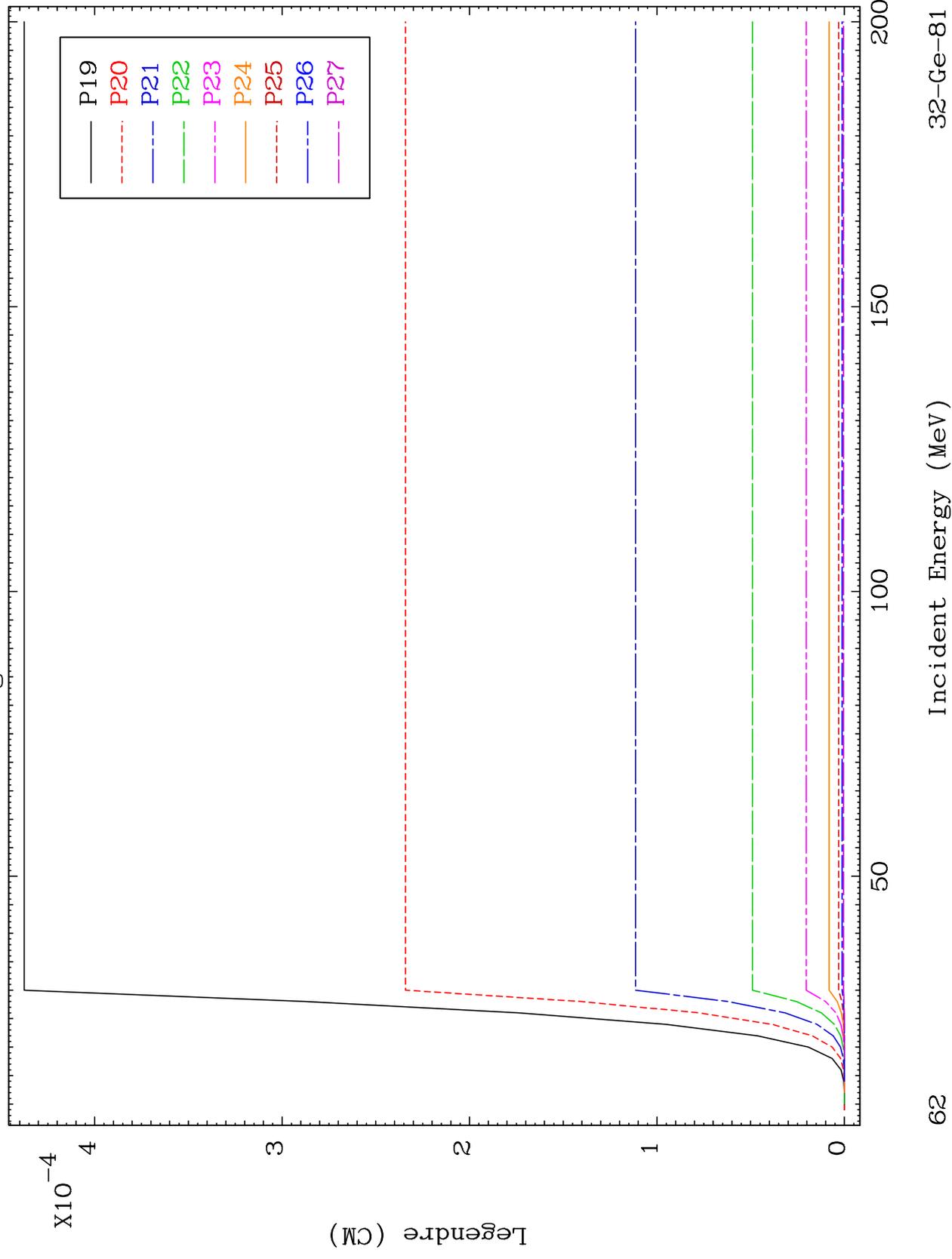
Incident Energy (MeV)

32-Ge-81

MAT 3258

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

32-Ge-81



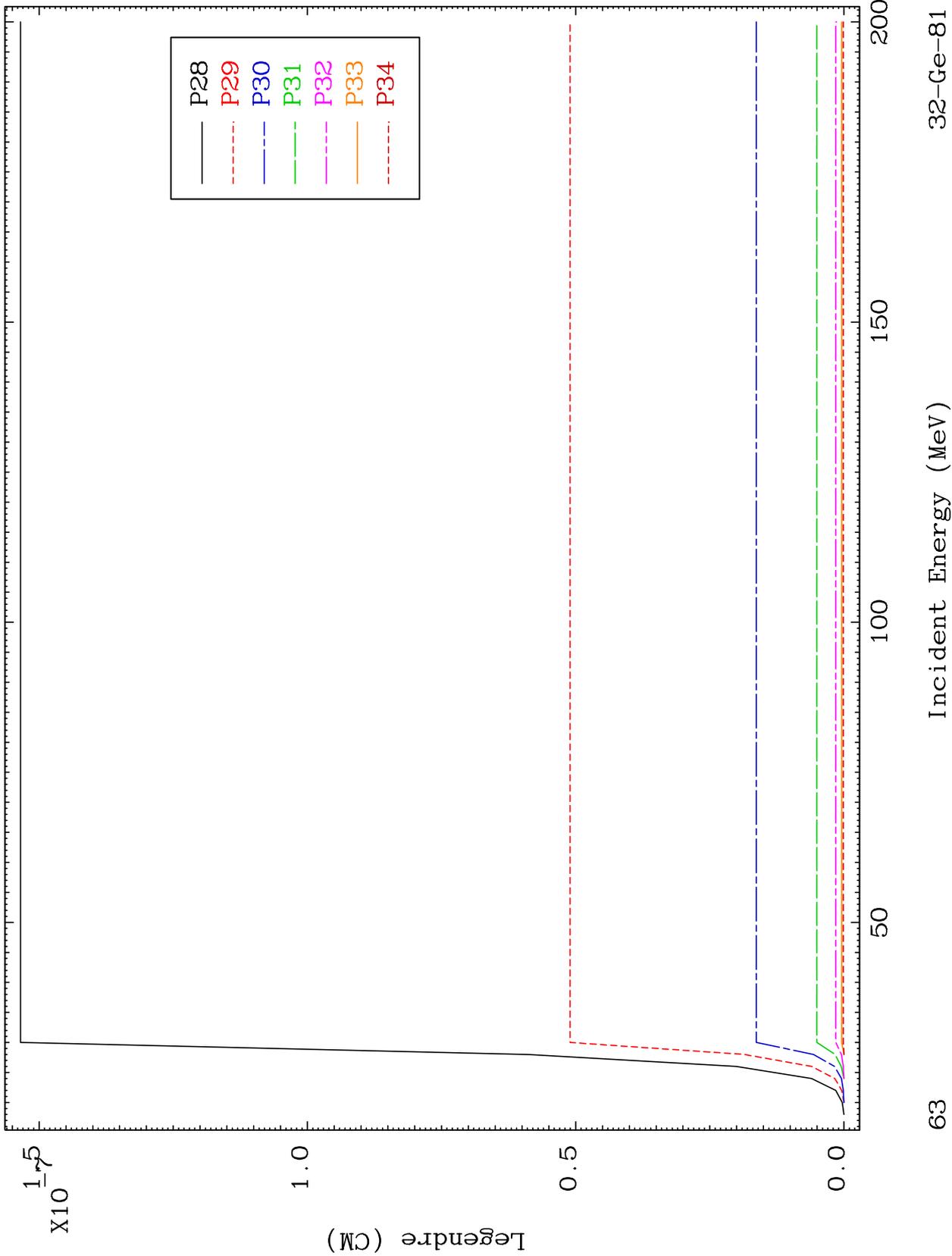
62

32-Ge-81

MAT 3258

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

32-Ge-81



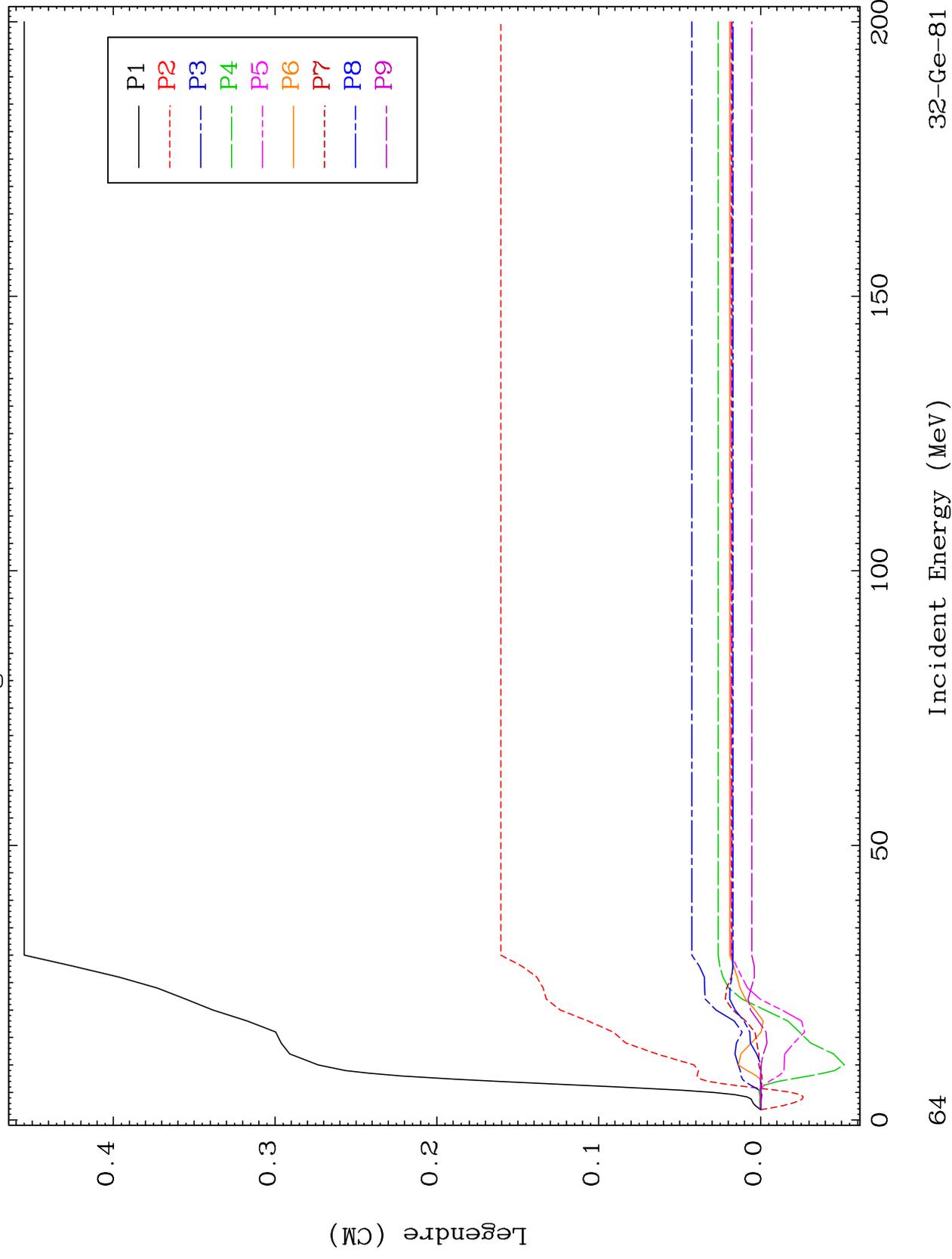
63

32-Ge-81

MAT 3258

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

32-Ge-81



64

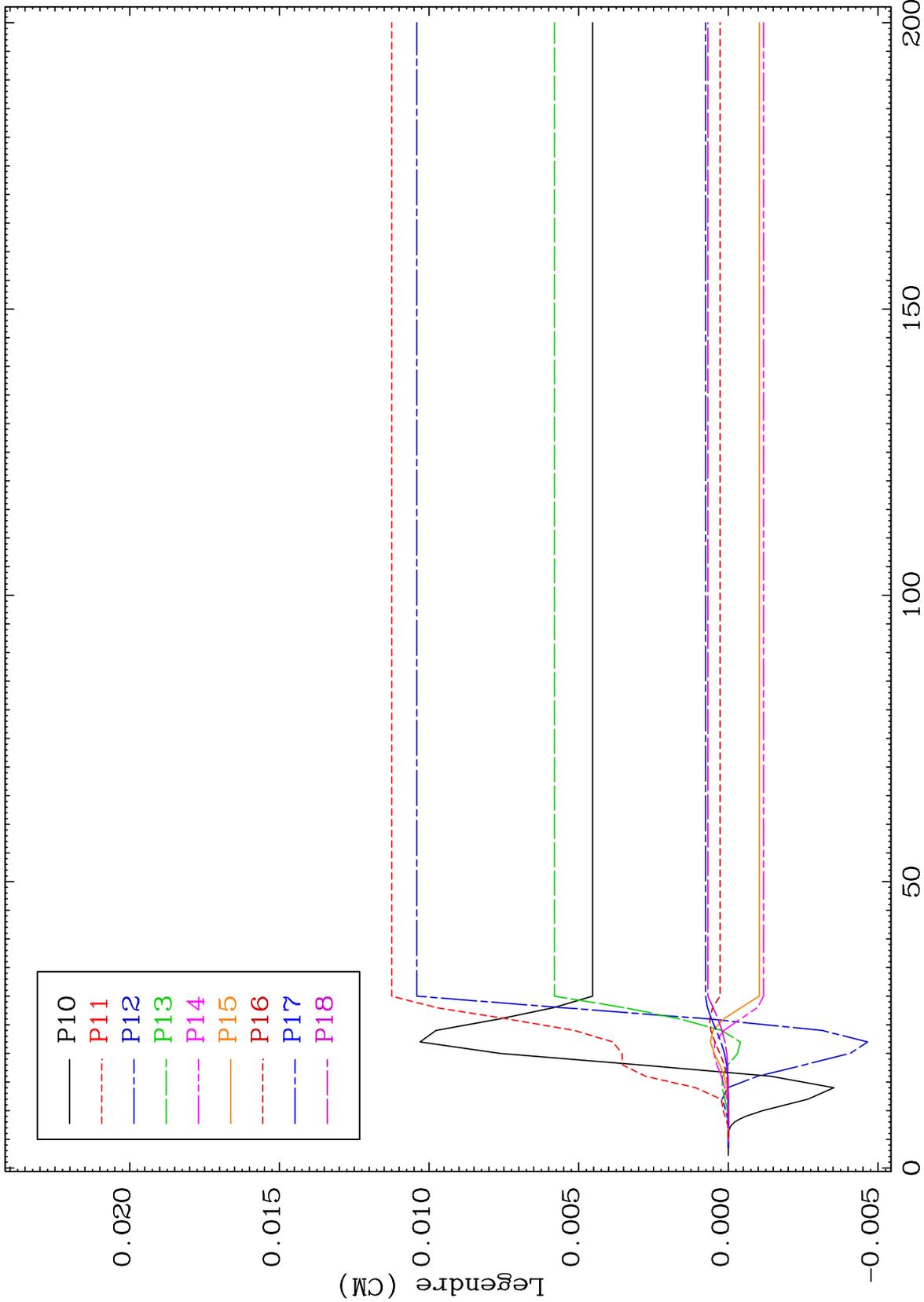
Incident Energy (MeV)

32-Ge-81

MAT 3258

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

32-Ge-81



65

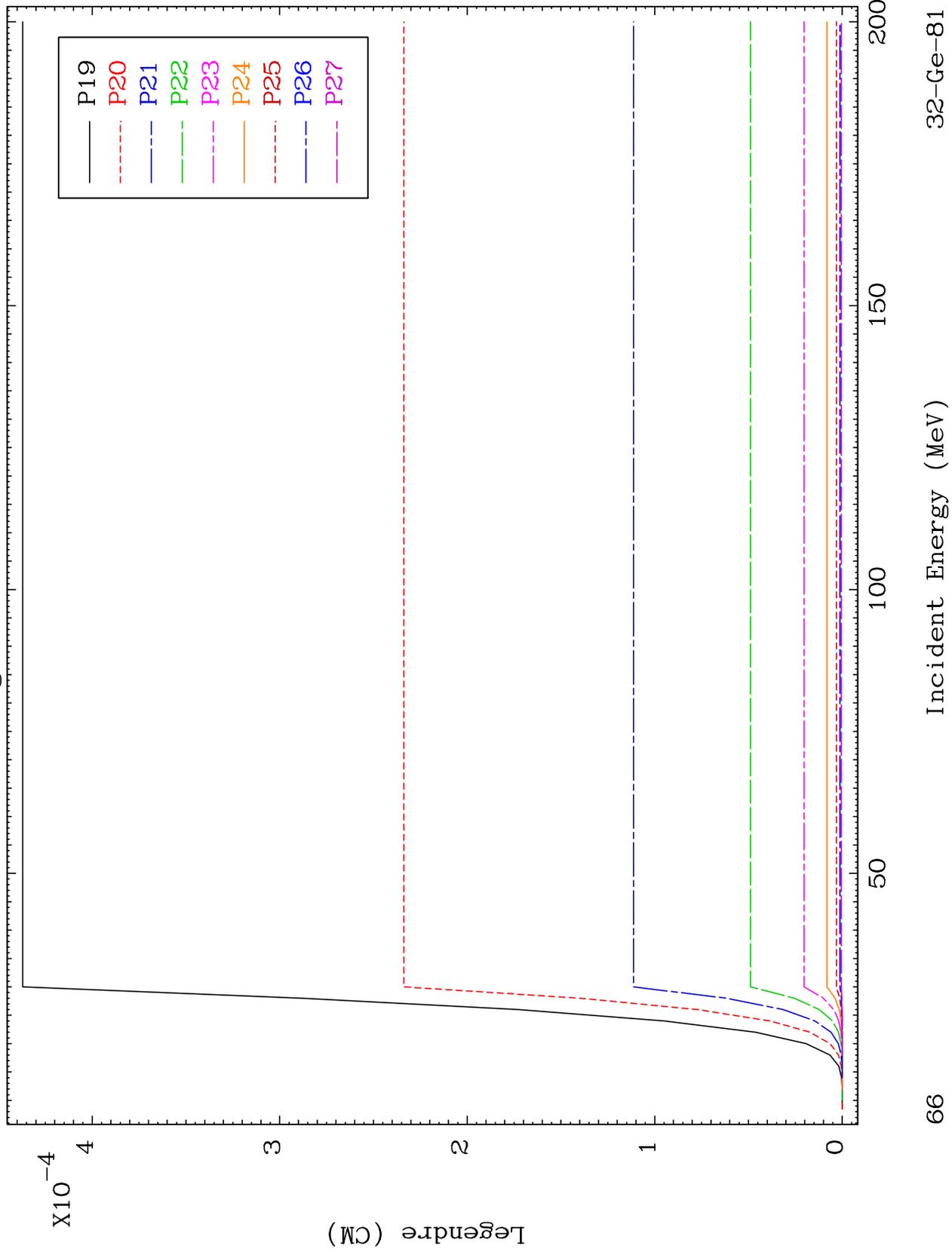
Incident Energy (MeV)

32-Ge-81

MAT 3258

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

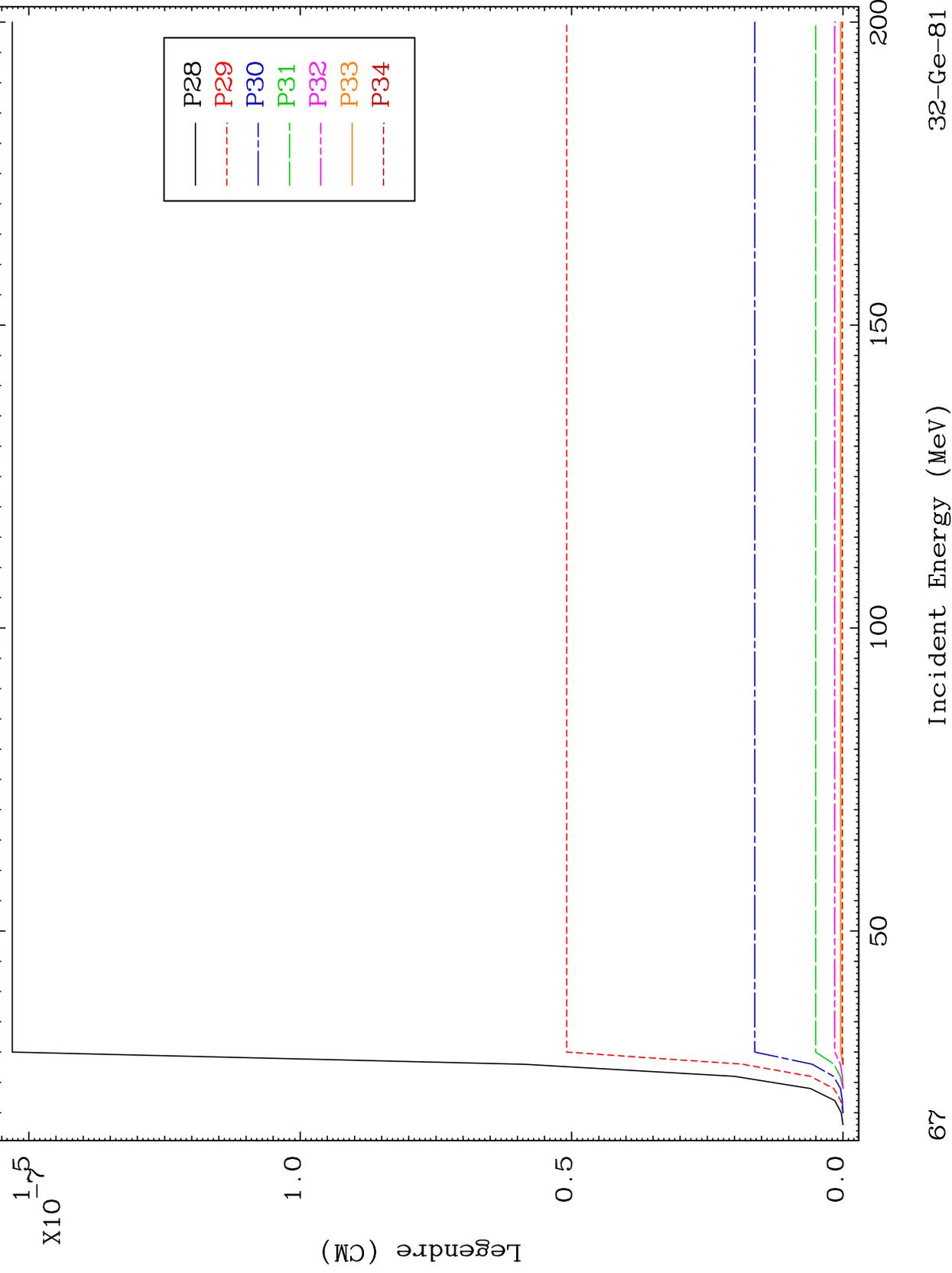
32-Ge-81



MAT 3258

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

32-Ge-81



67

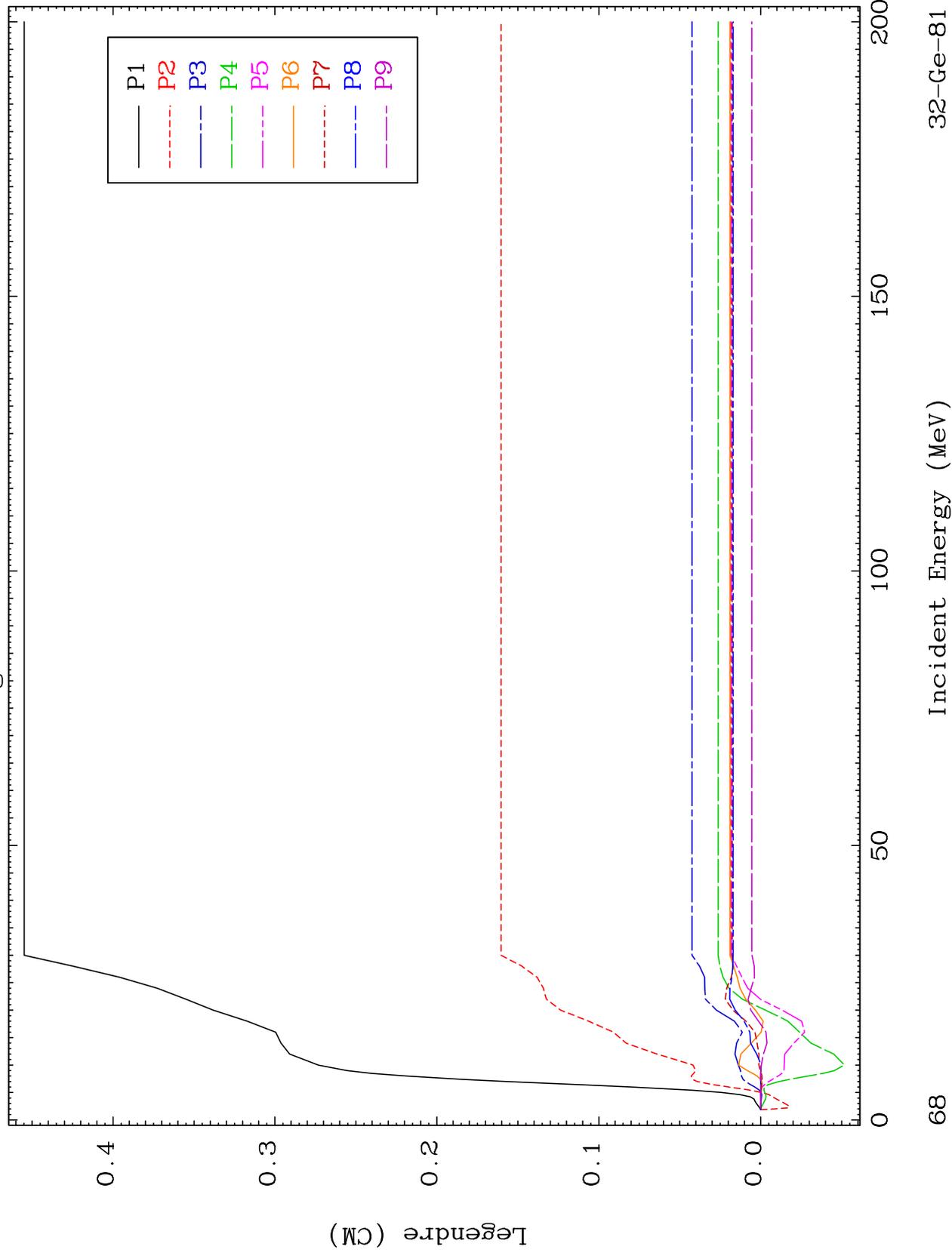
Incident Energy (MeV)

32-Ge-81

MAT 3258

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

32-Ge-81



32-Ge-81

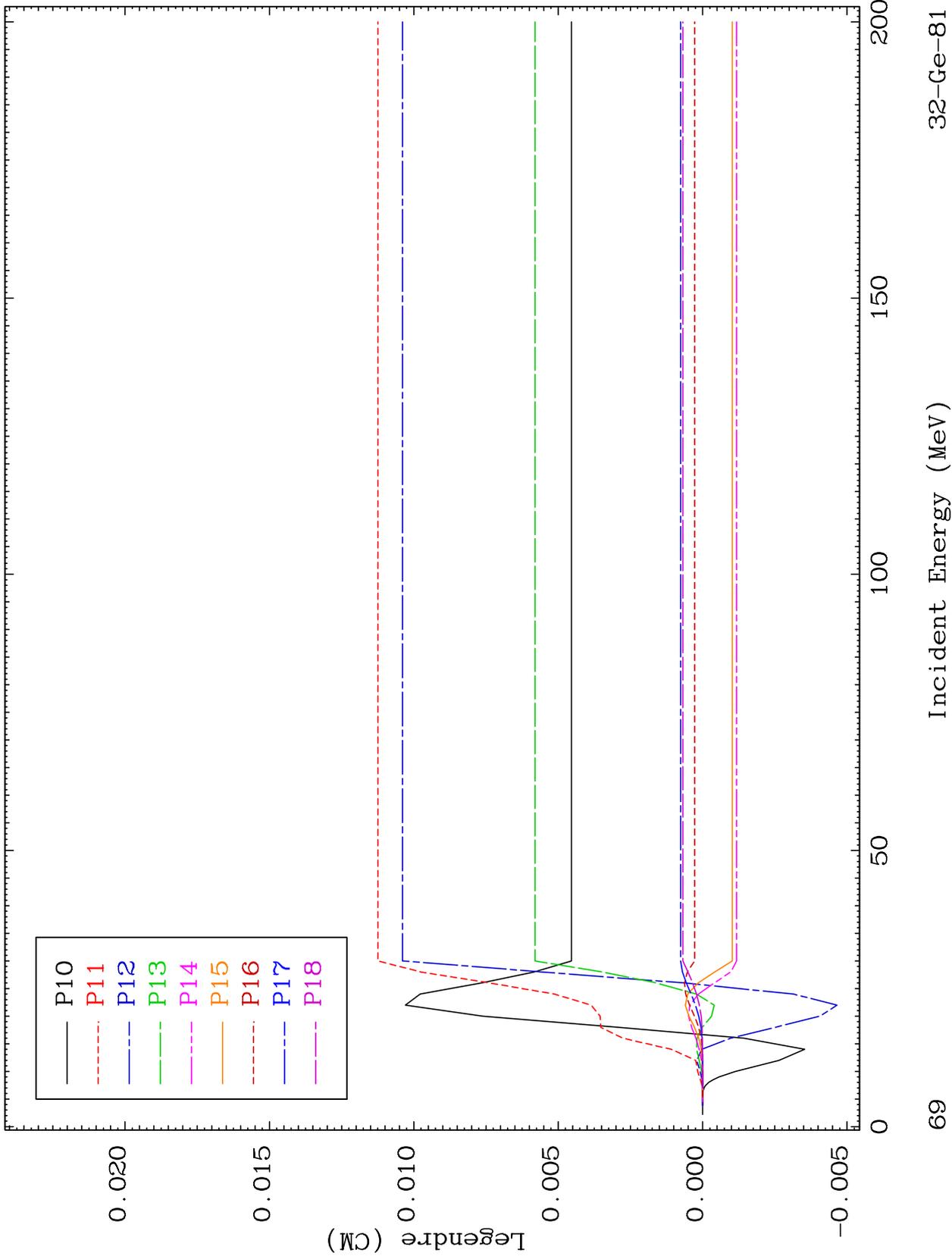
Incident Energy (MeV)

68

MAT 3258

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

32-Ge-81

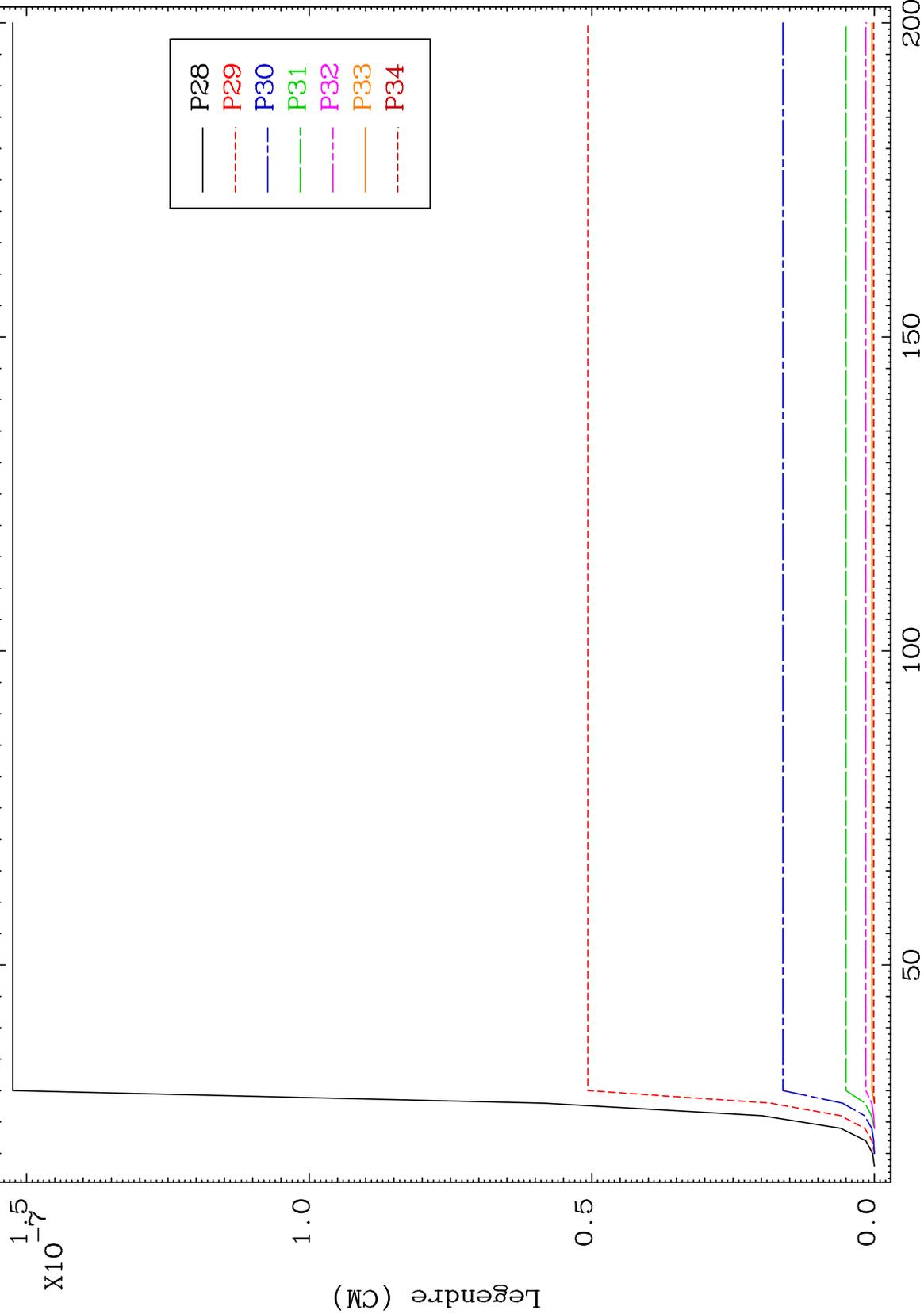




MAT 3258

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

32-Ge-81



71

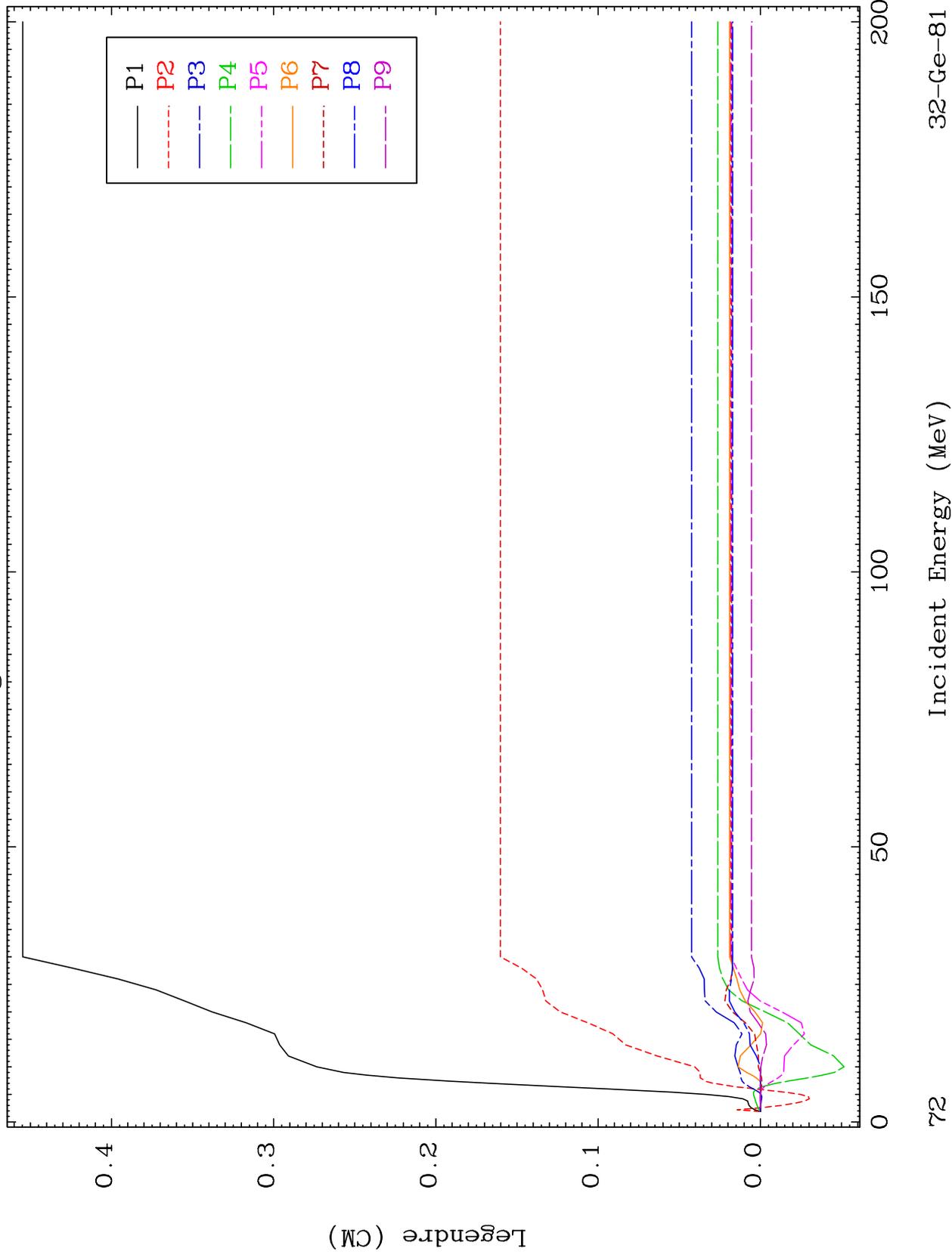
Incident Energy (MeV)

32-Ge-81

MAT 3258

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

32-Ge-81



32-Ge-81

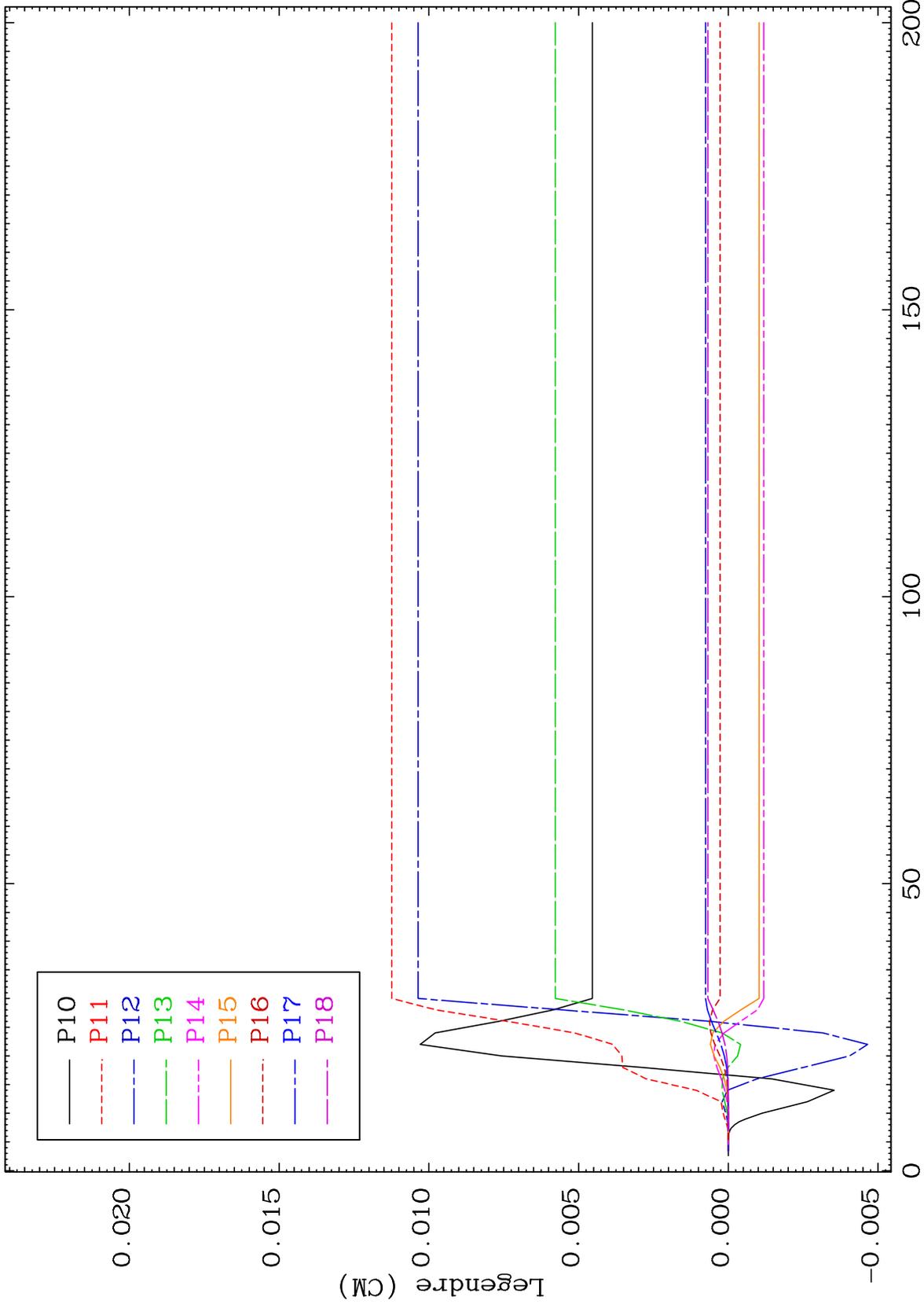
Incident Energy (MeV)

72

MAT 3258

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

32-Ge-81



73

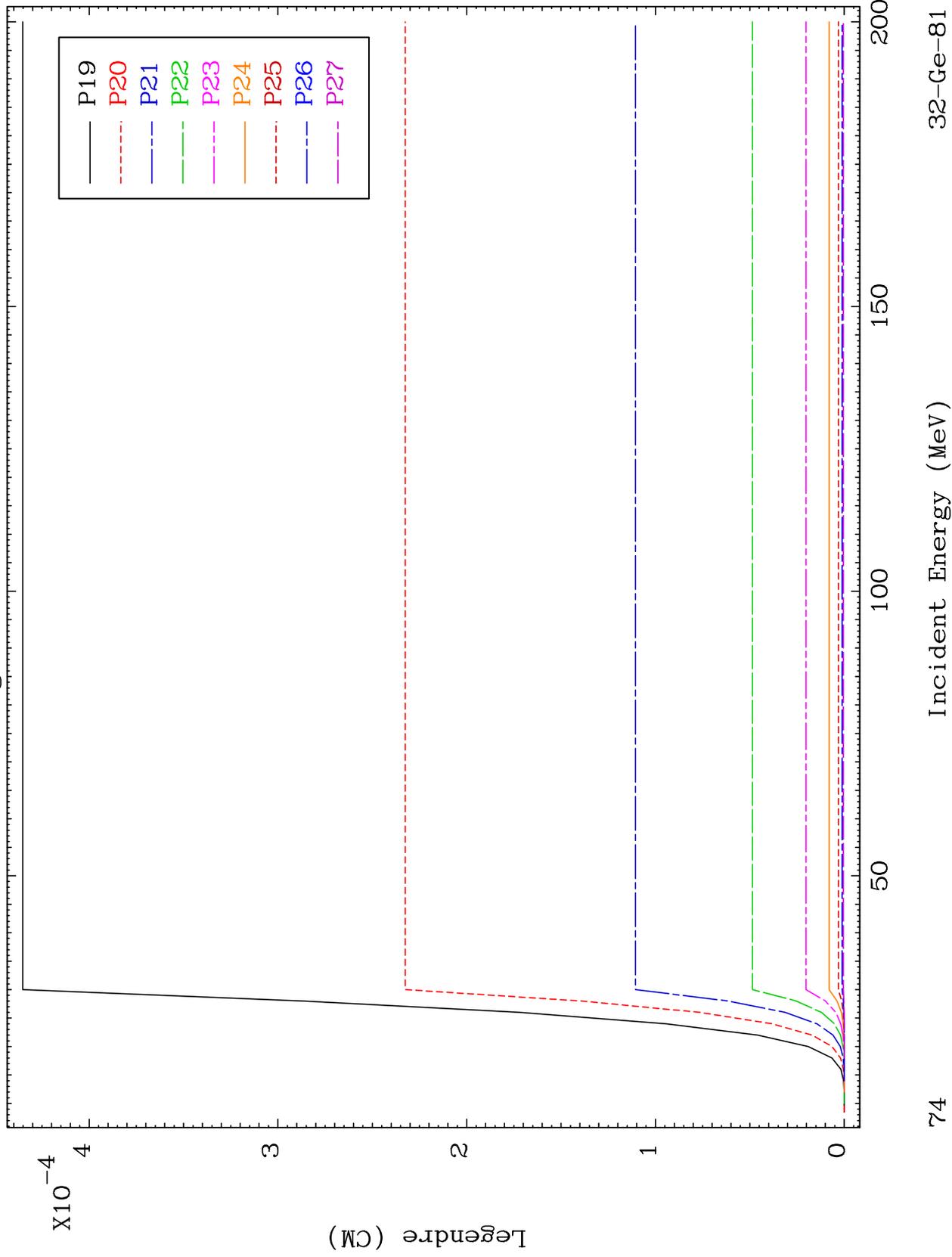
Incident Energy (MeV)

32-Ge-81

MAT 3258

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

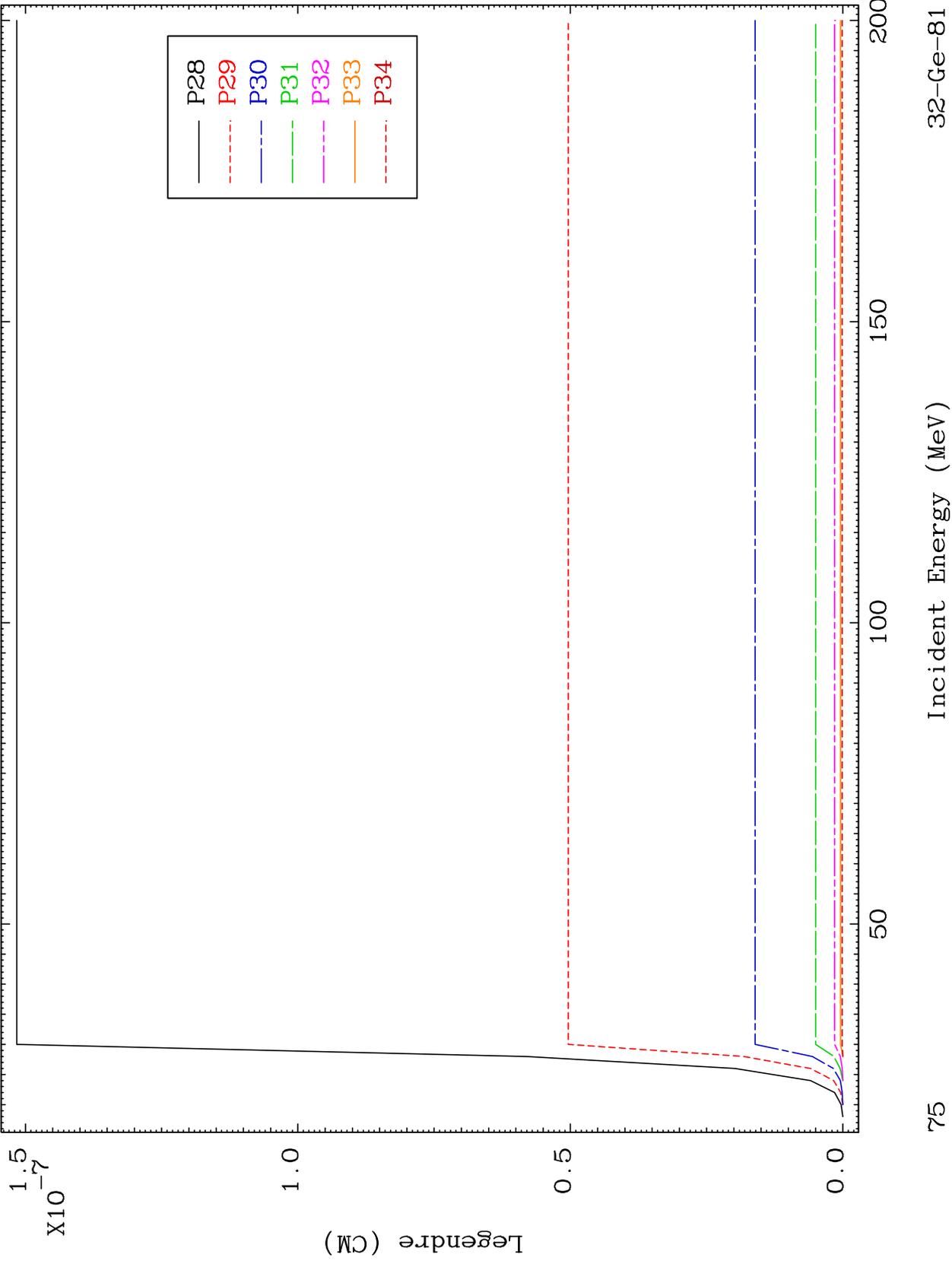
32-Ge-81



MAT 3258

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

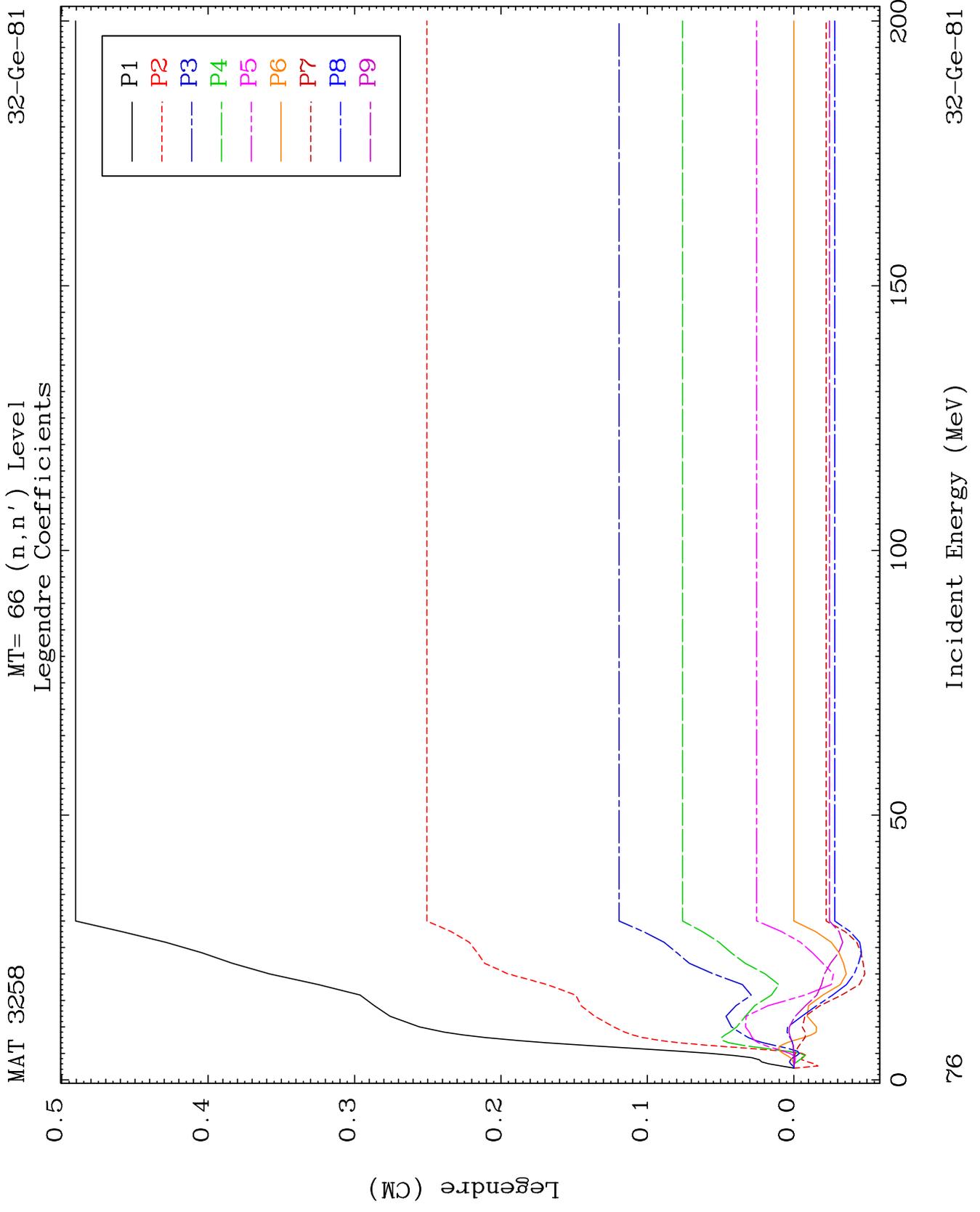
32-Ge-81



75

Incident Energy (MeV)

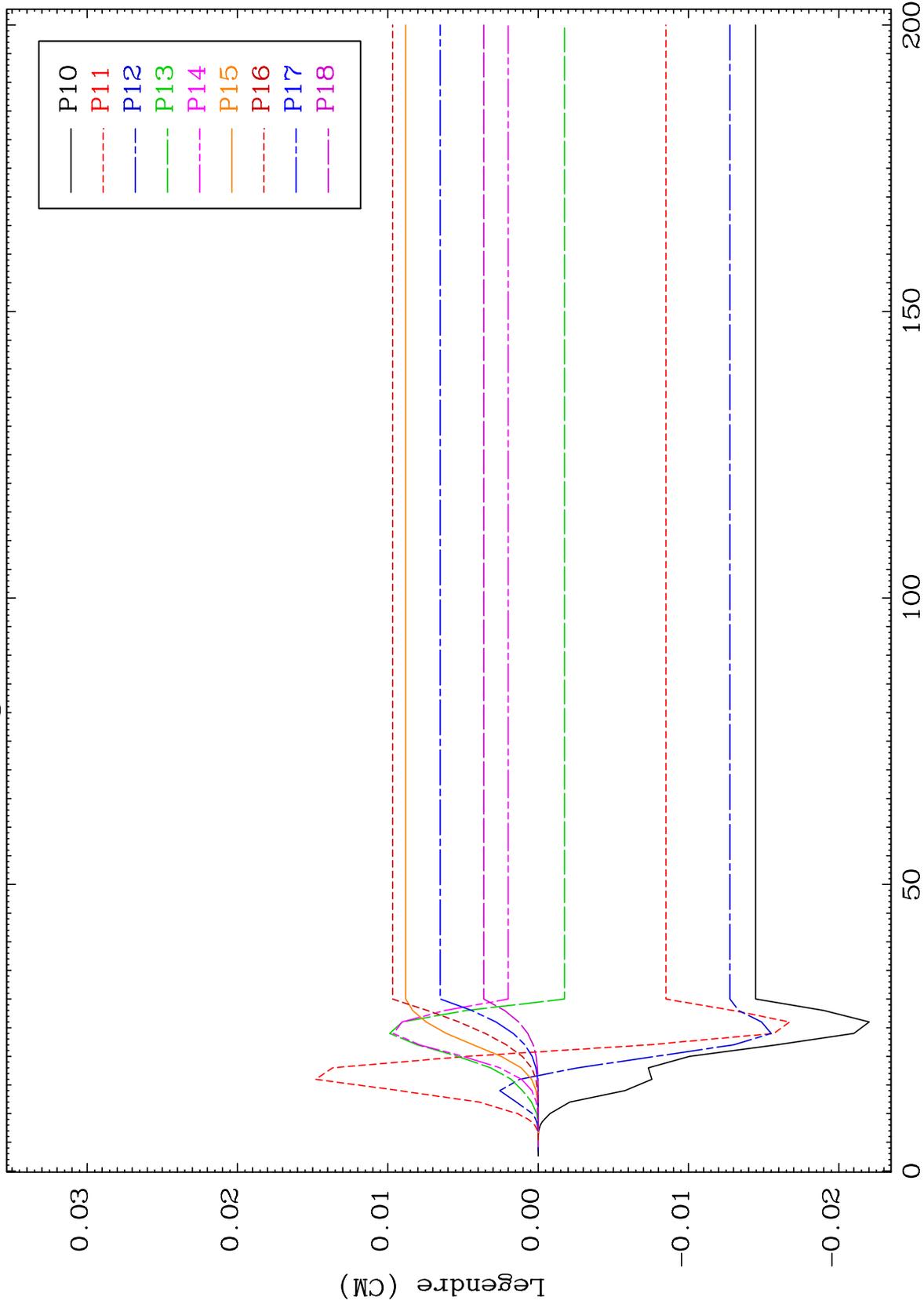
32-Ge-81



MAT 3258

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

32-Ge-81



77

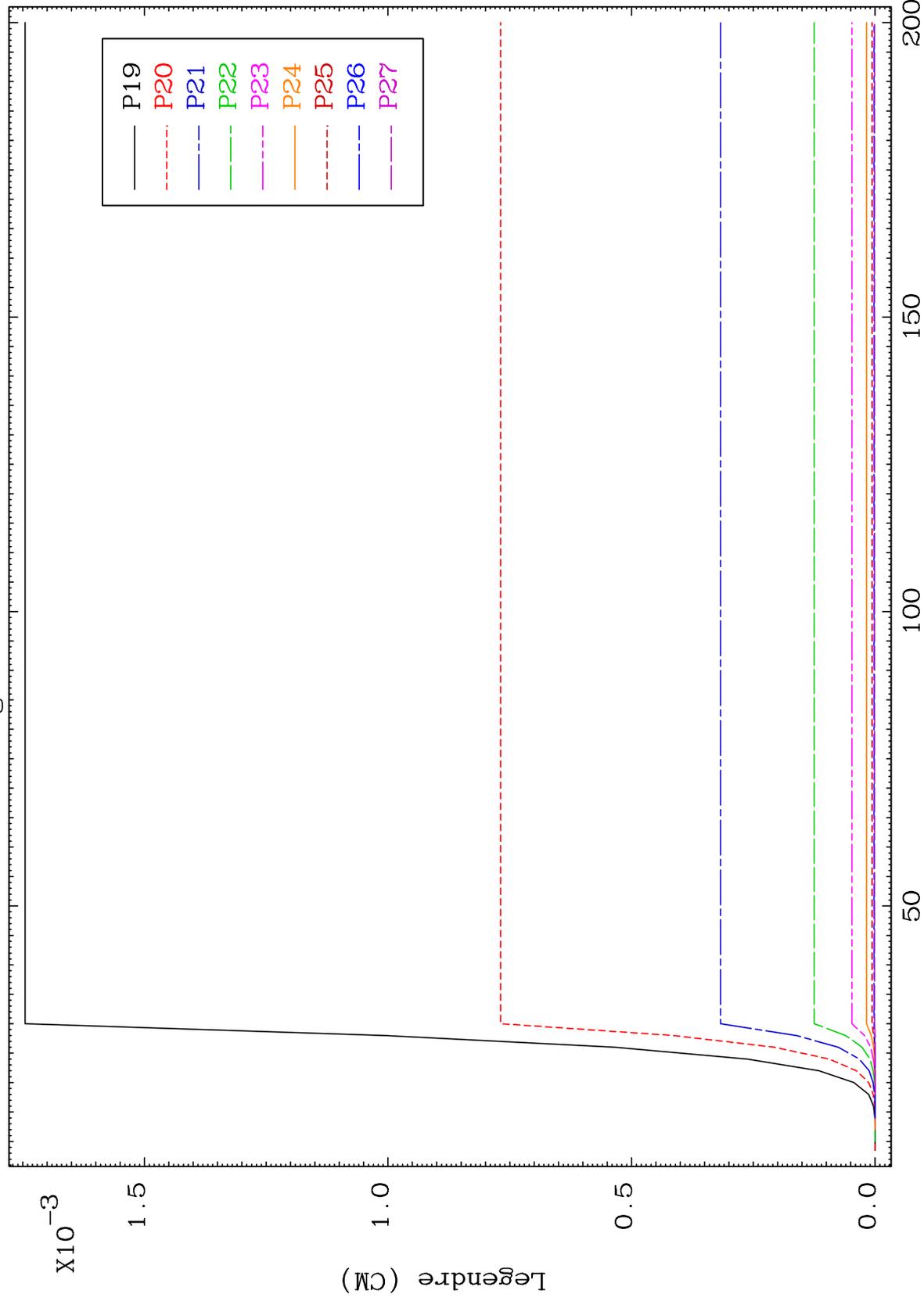
Incident Energy (MeV)

32-Ge-81

MAT 3258

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

32-Ge-81



78

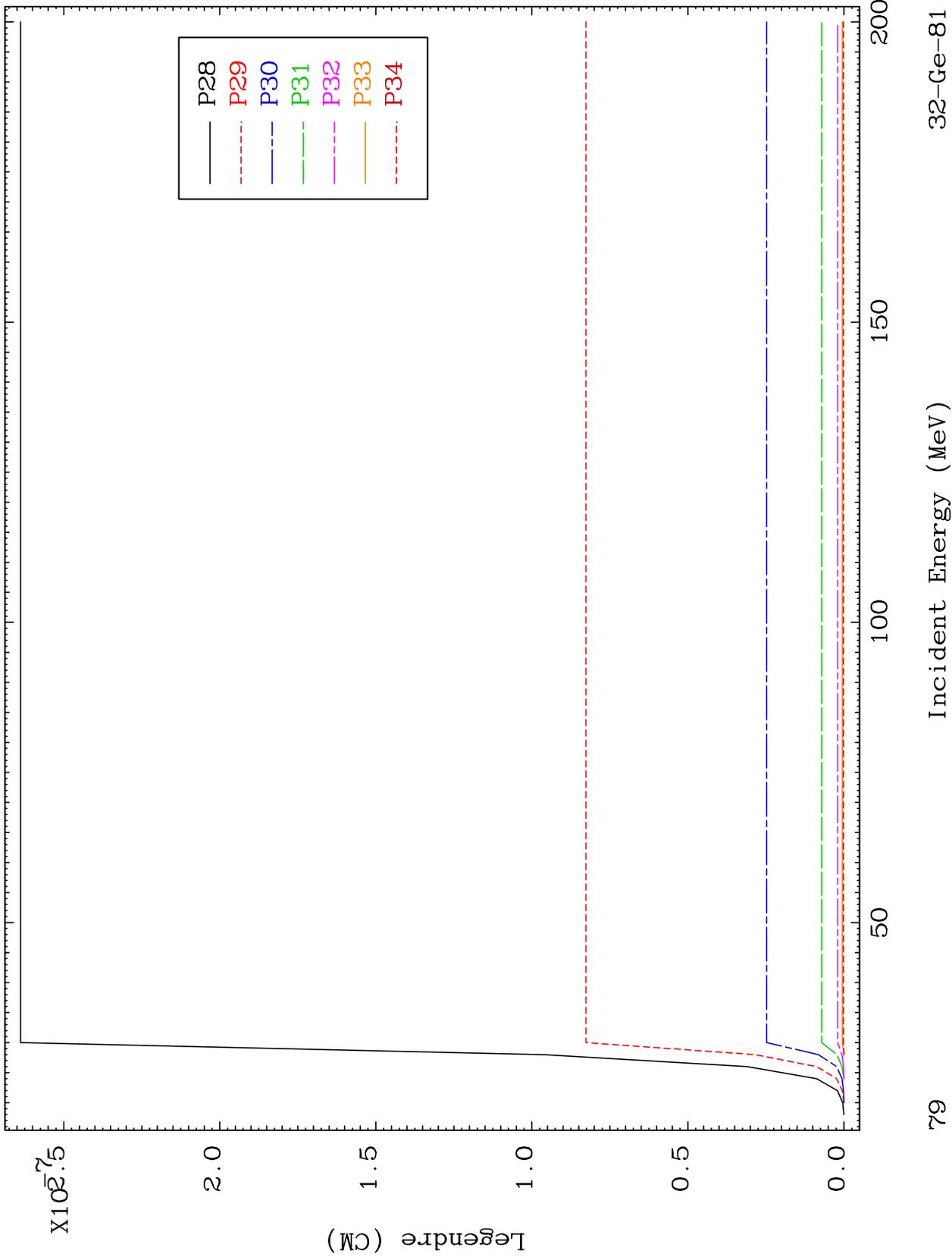
Incident Energy (MeV)

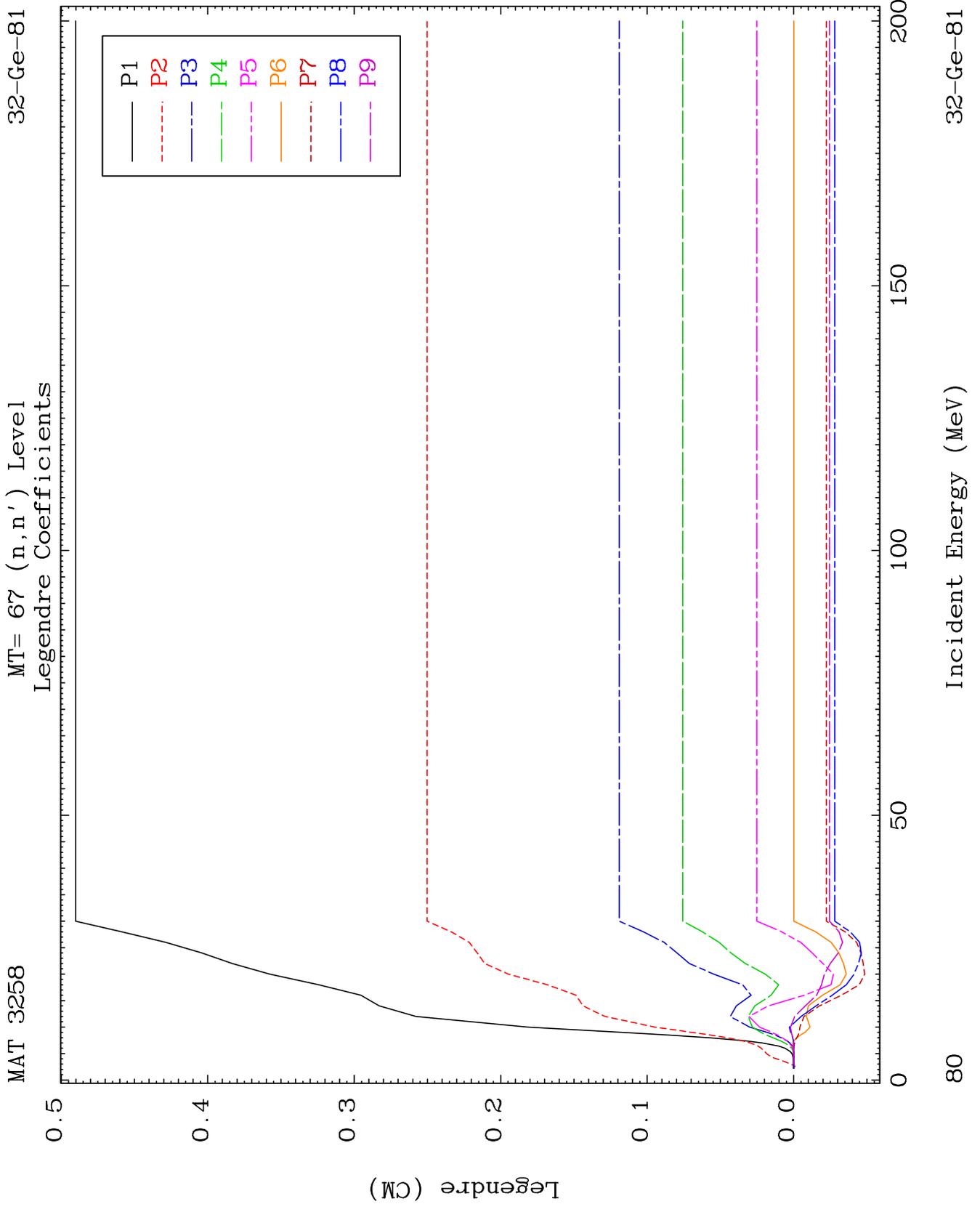
32-Ge-81

MAT 3258

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

32-Ge-81

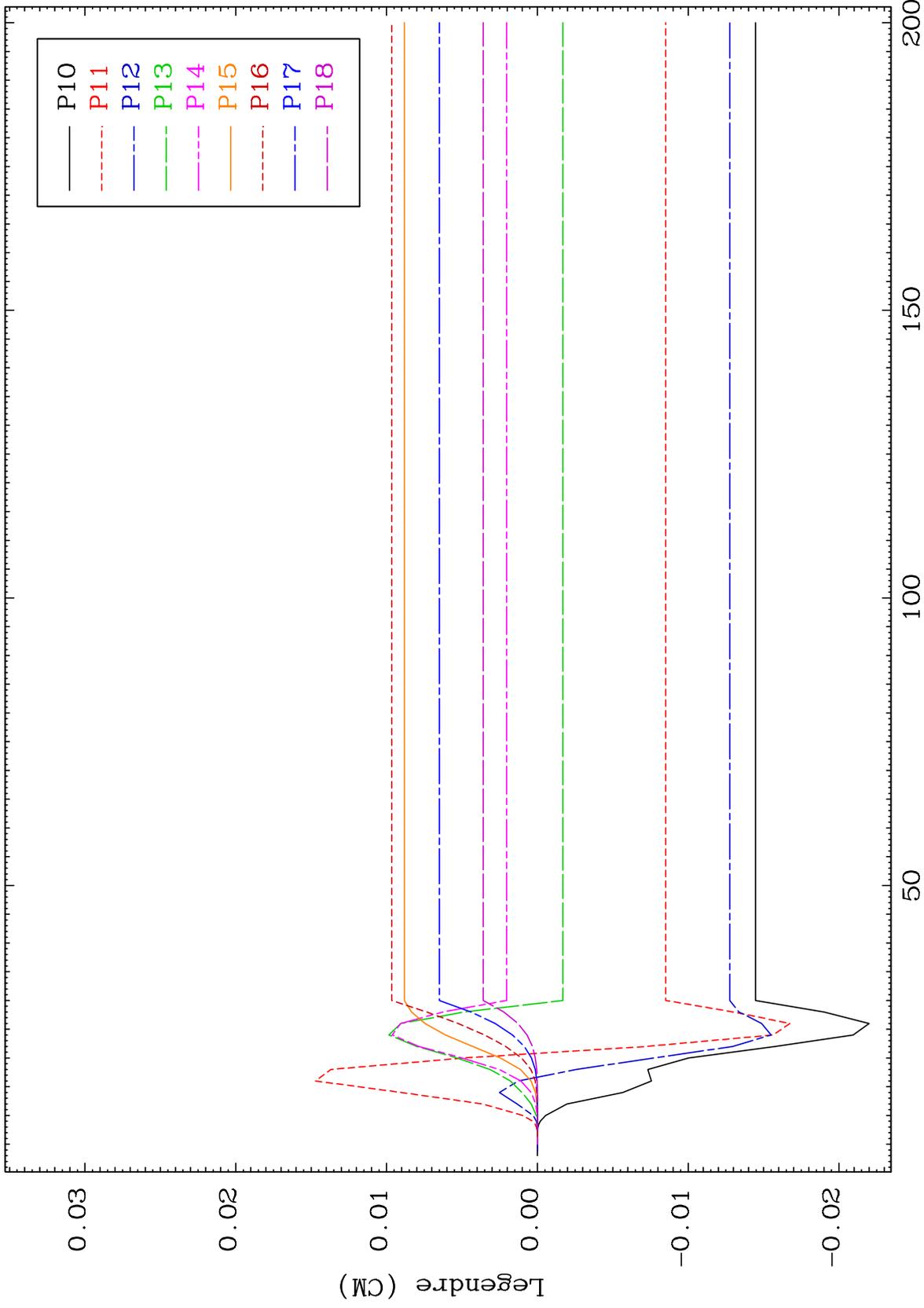




MAT 3258

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

32-Ge-81



81

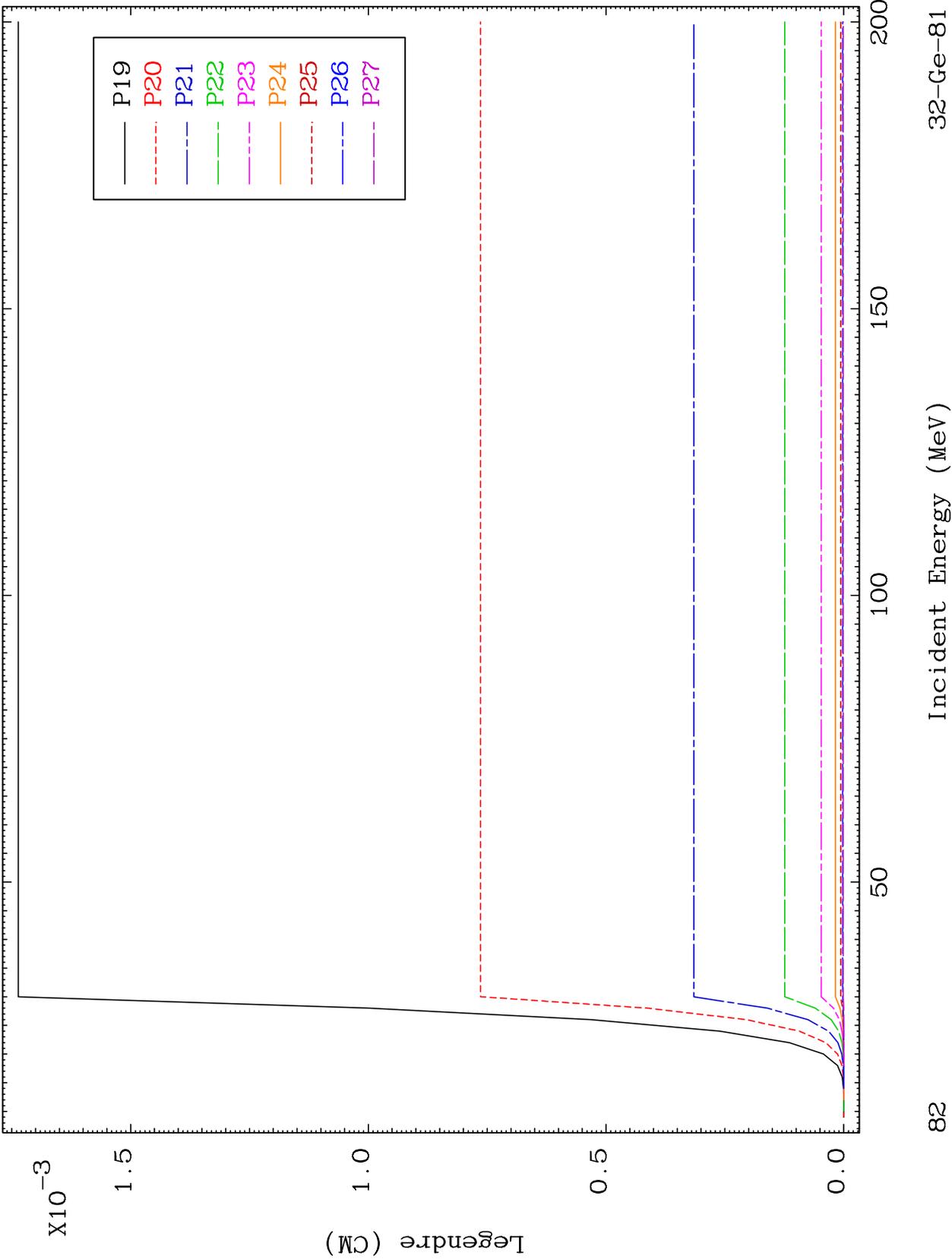
Incident Energy (MeV)

32-Ge-81

MAT 3258

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

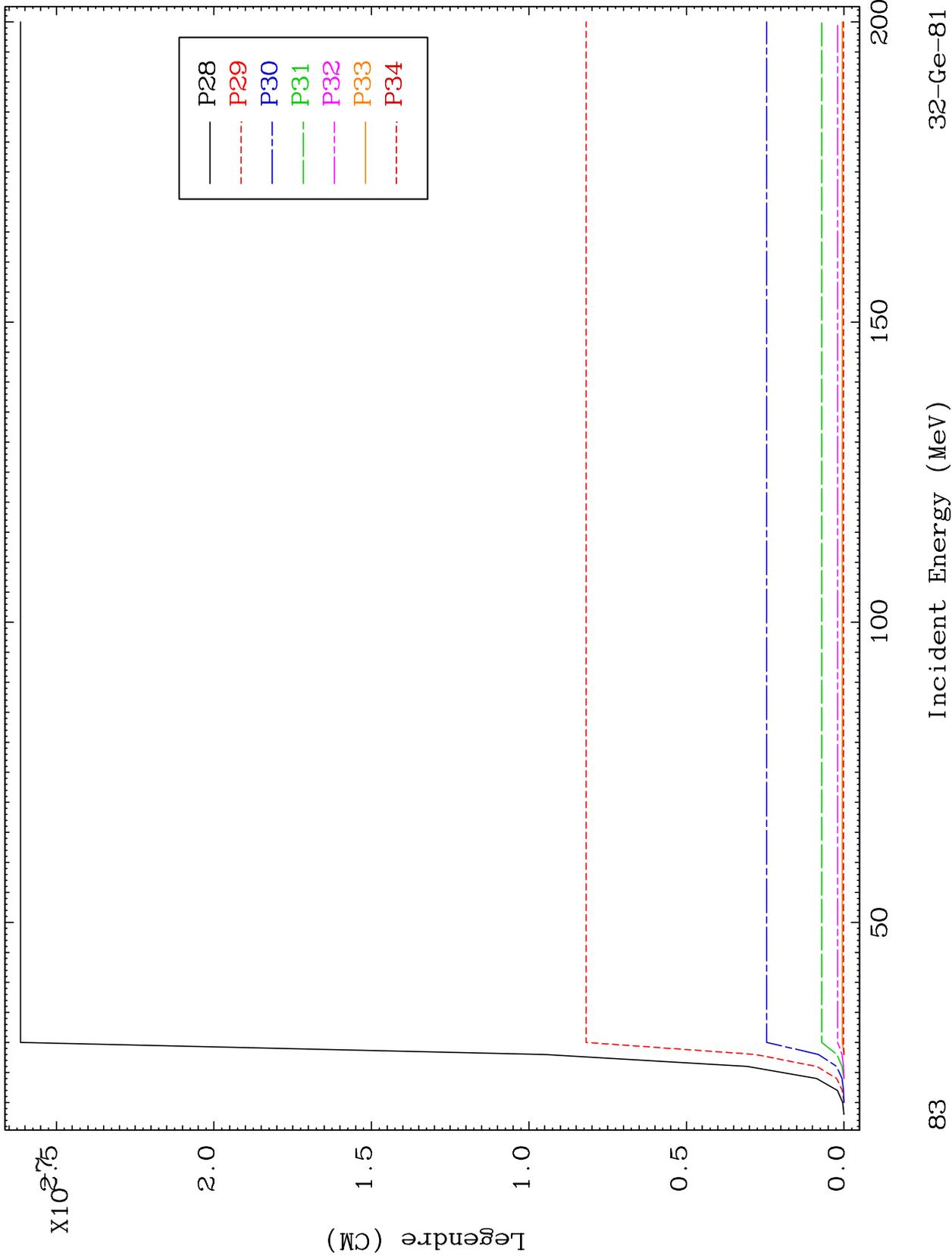
32-Ge-81



82

Incident Energy (MeV)

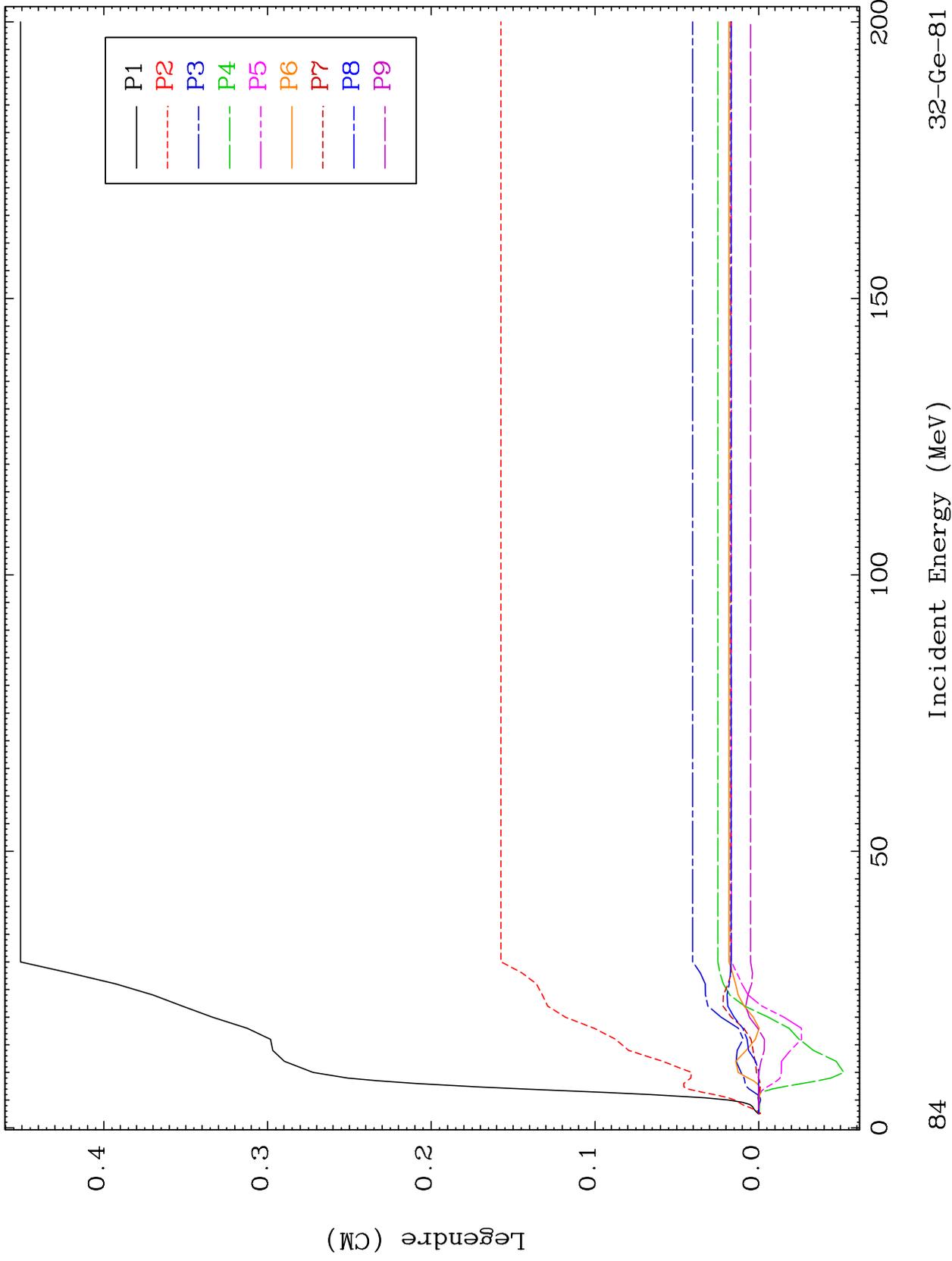
32-Ge-81



MAT 3258

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

32-Ge-81



84

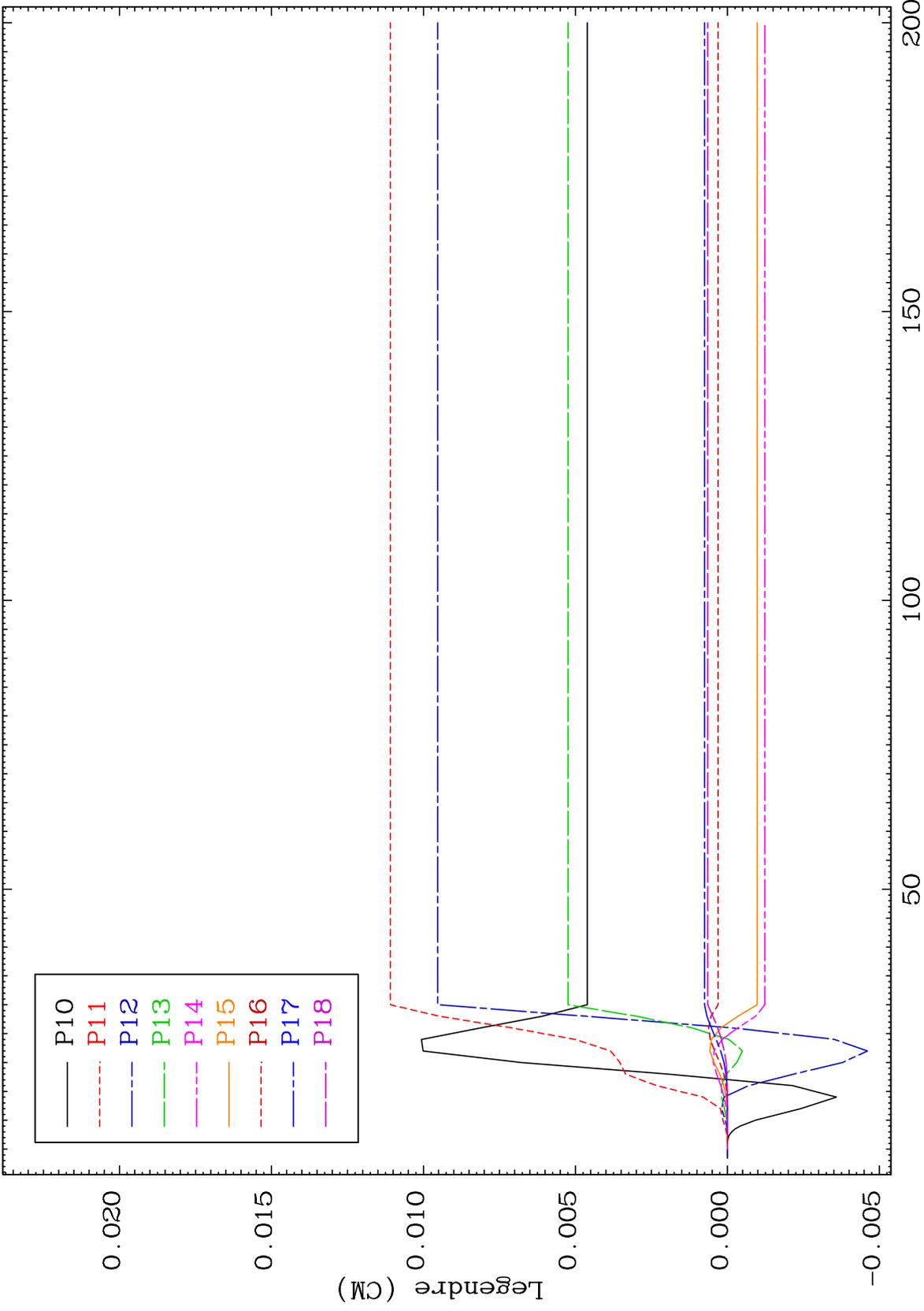
Incident Energy (MeV)

32-Ge-81

MAT 3258

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

32-Ge-81



85

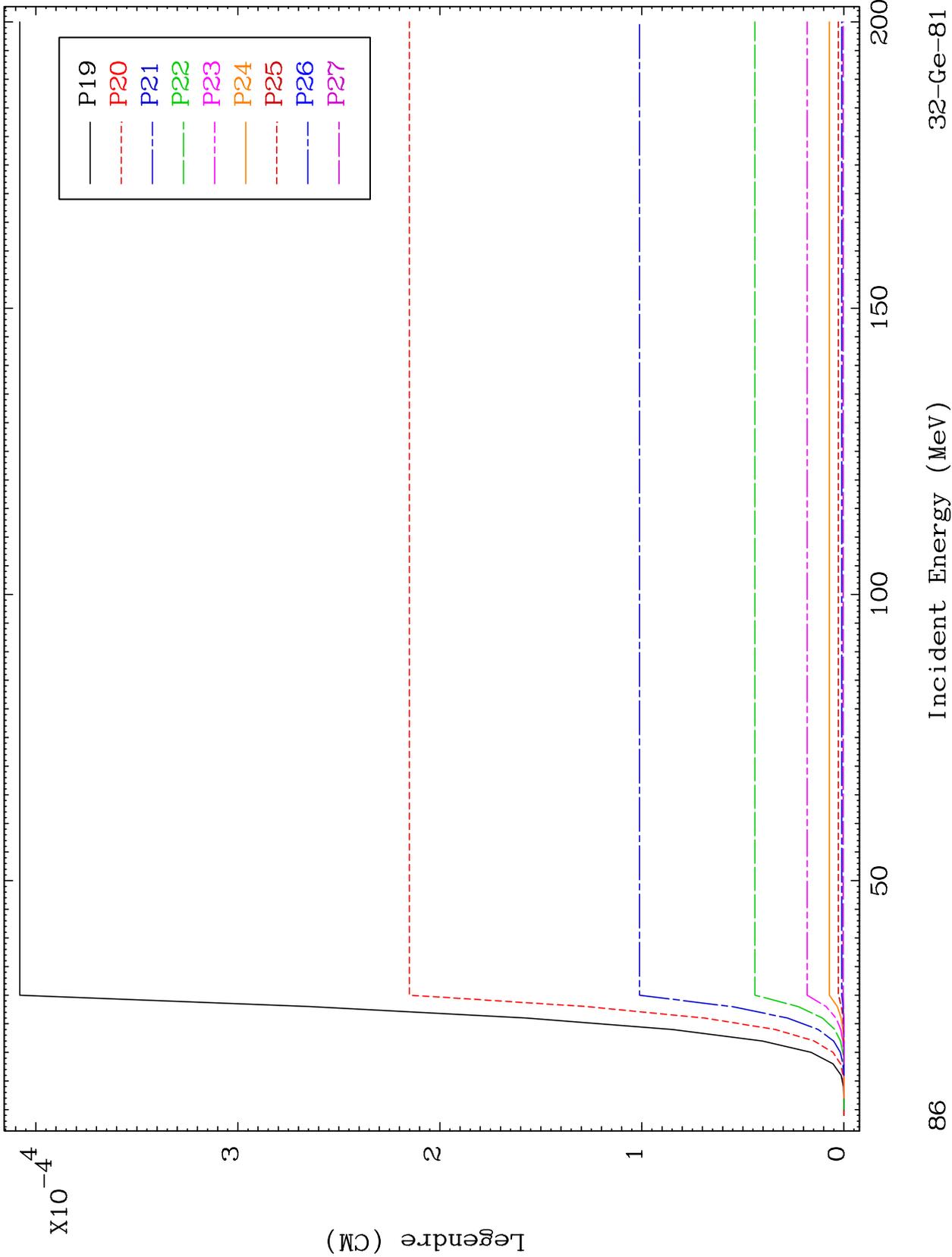
Incident Energy (MeV)

32-Ge-81

MAT 3258

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

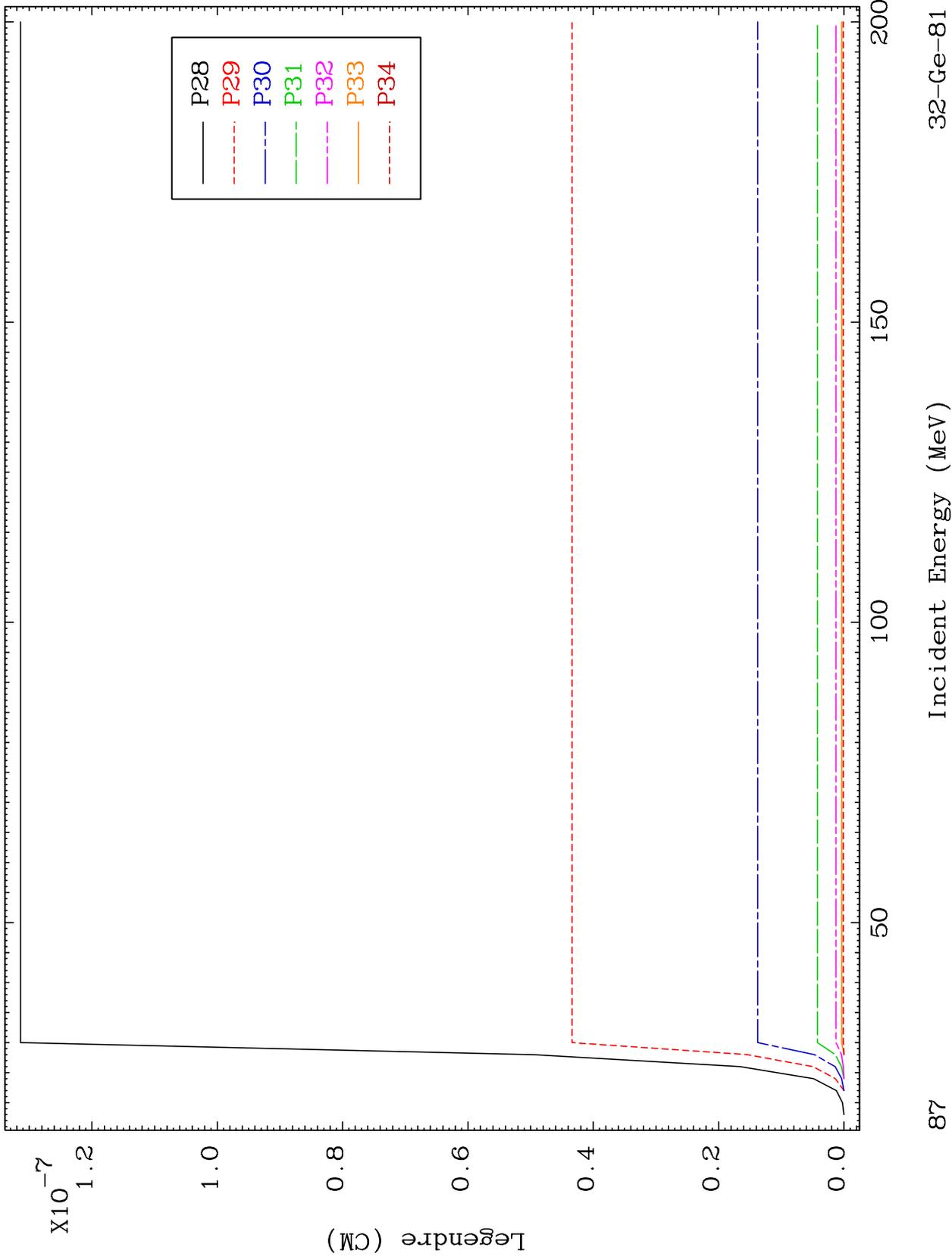
32-Ge-81



MAT 3258

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

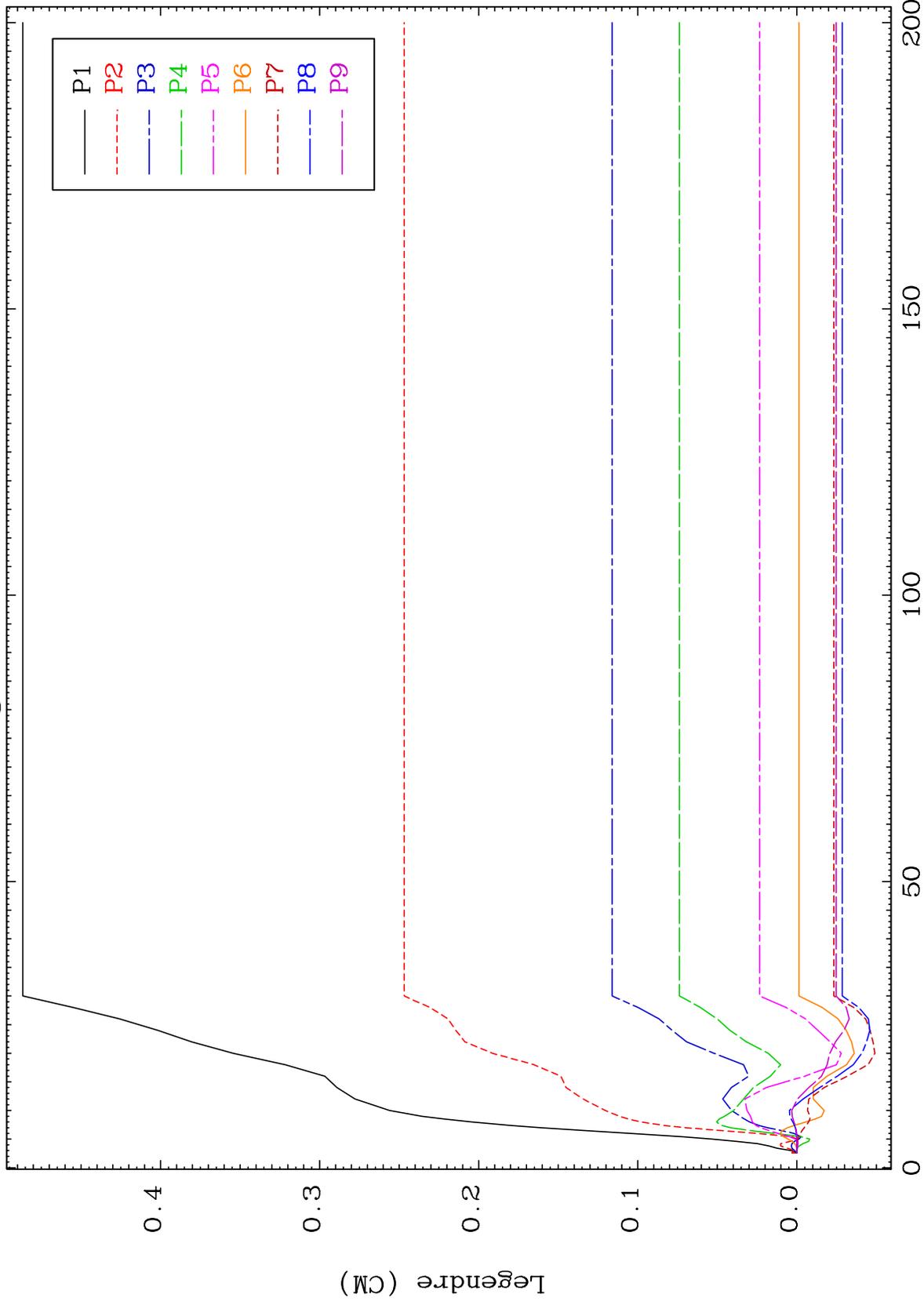
32-Ge-81



MAT 3258

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

32-Ge-81



88

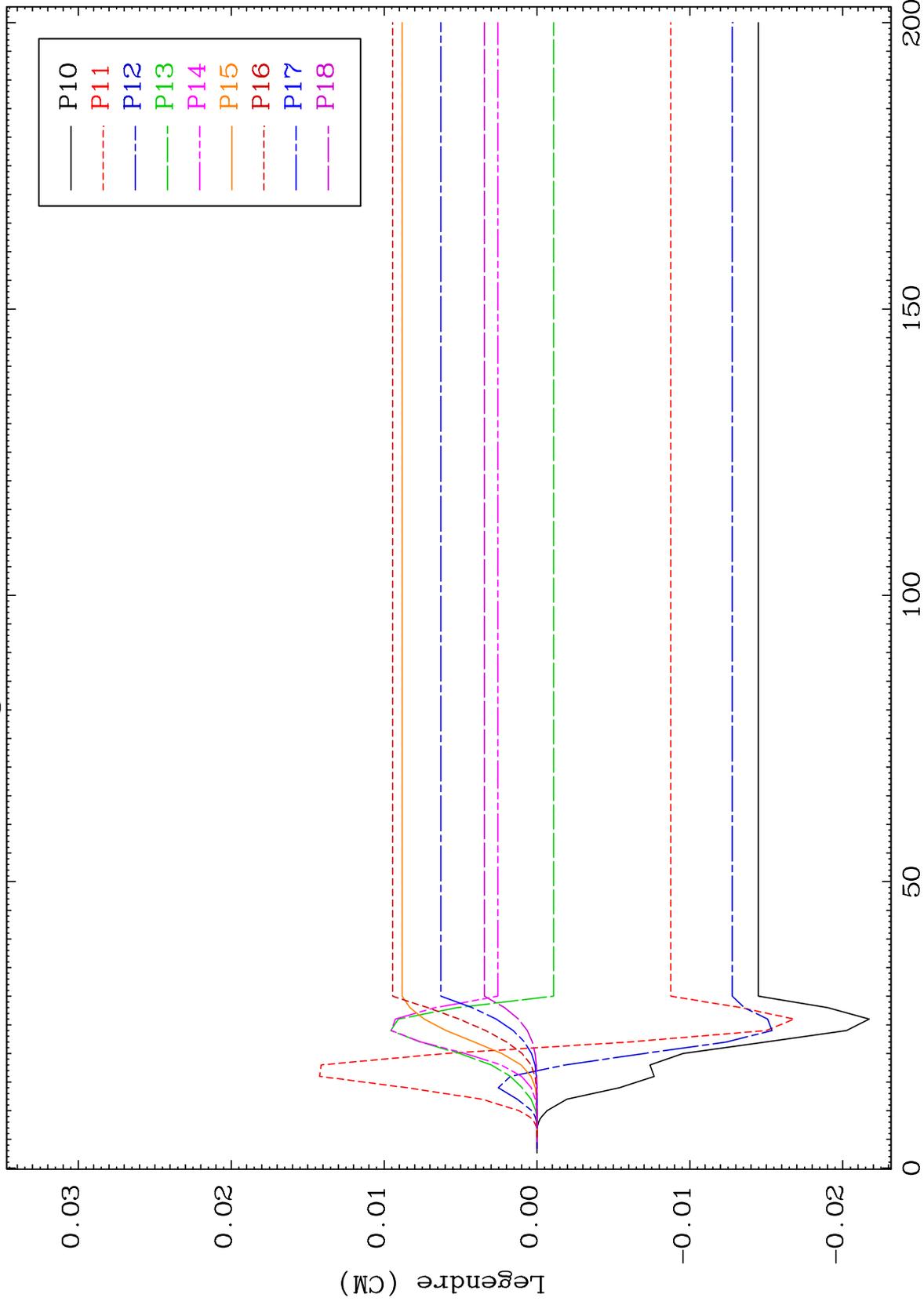
Incident Energy (MeV)

32-Ge-81

MAT 3258

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

32-Ge-81



89

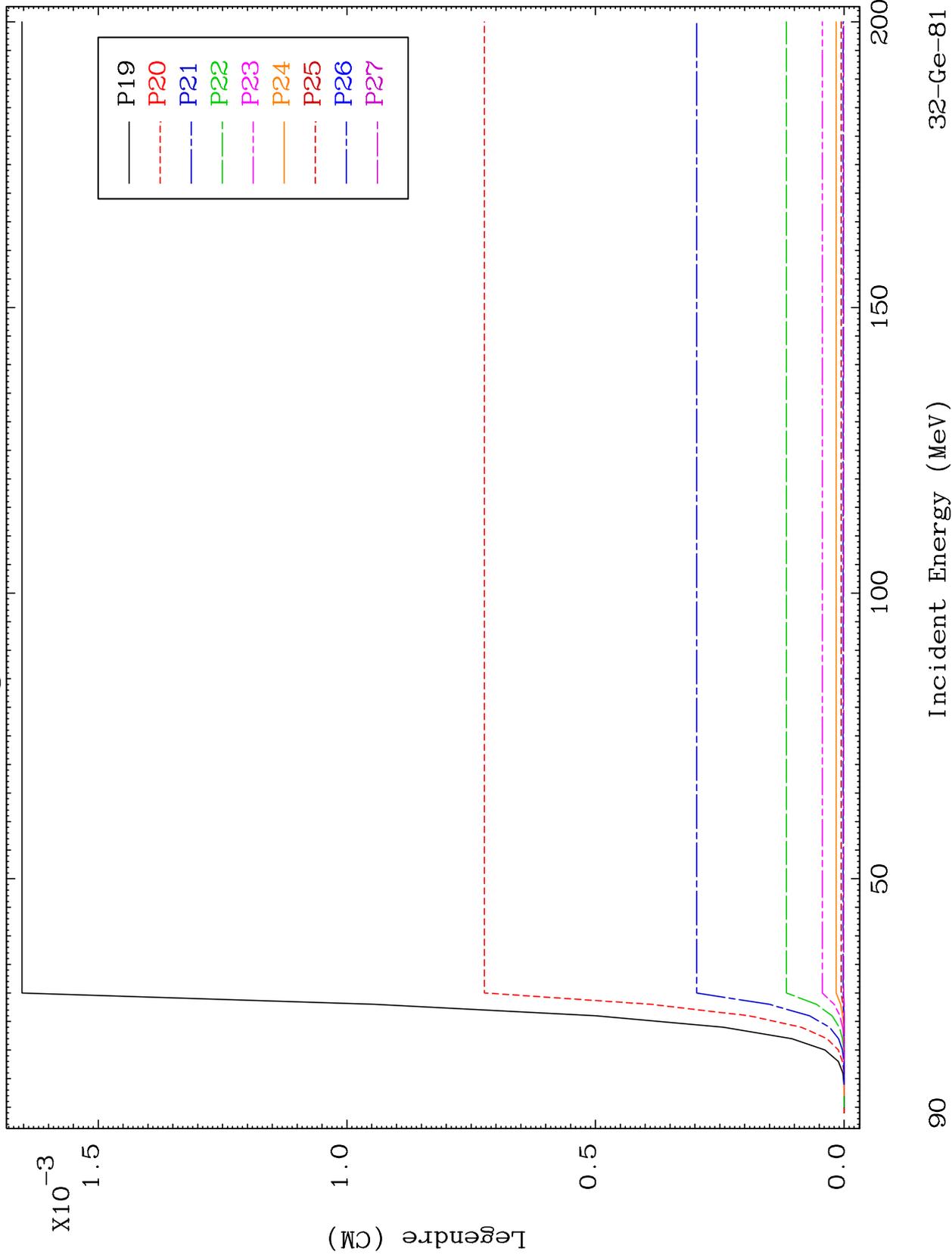
Incident Energy (MeV)

32-Ge-81

MAT 3258

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

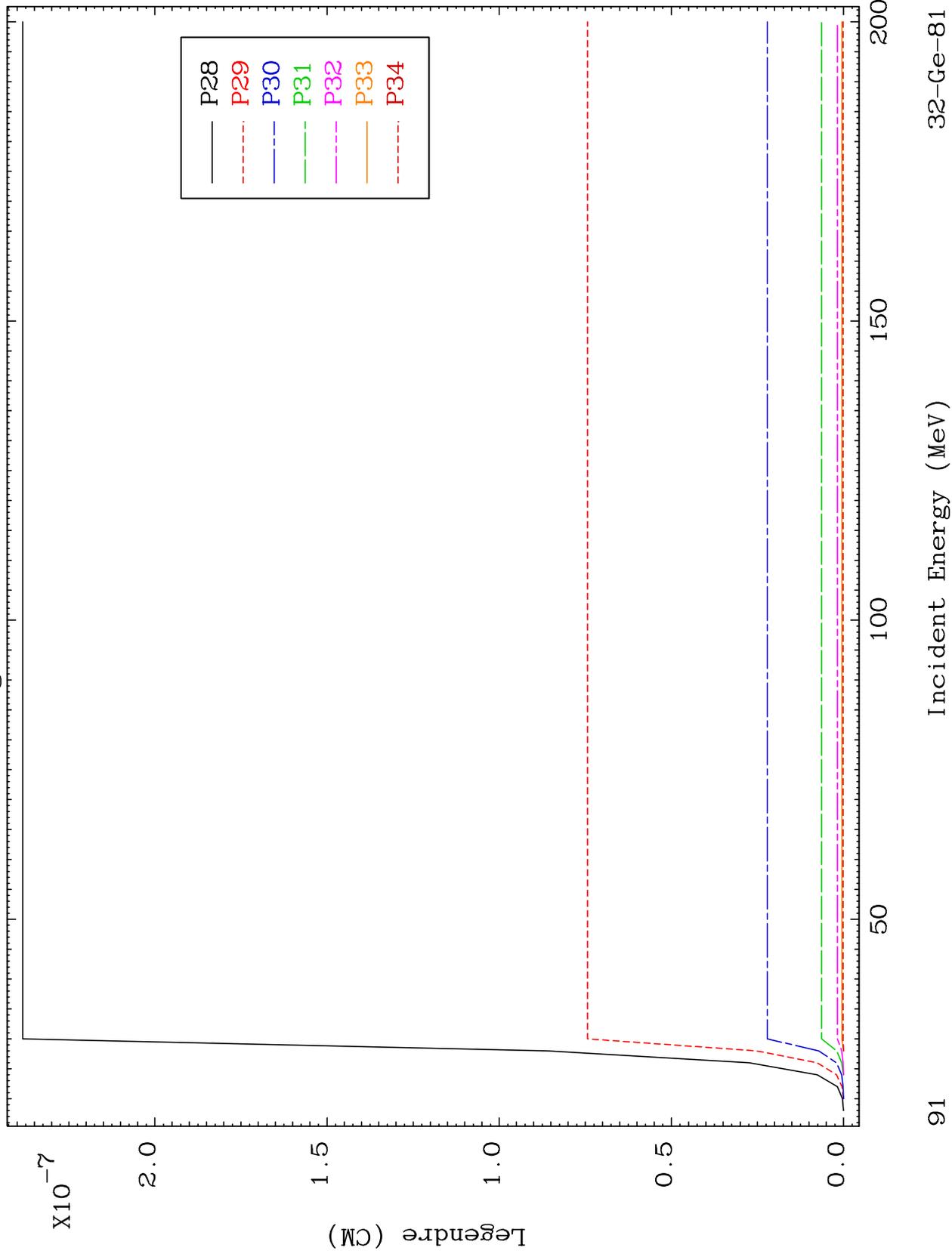
32-Ge-81



MAT 3258

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

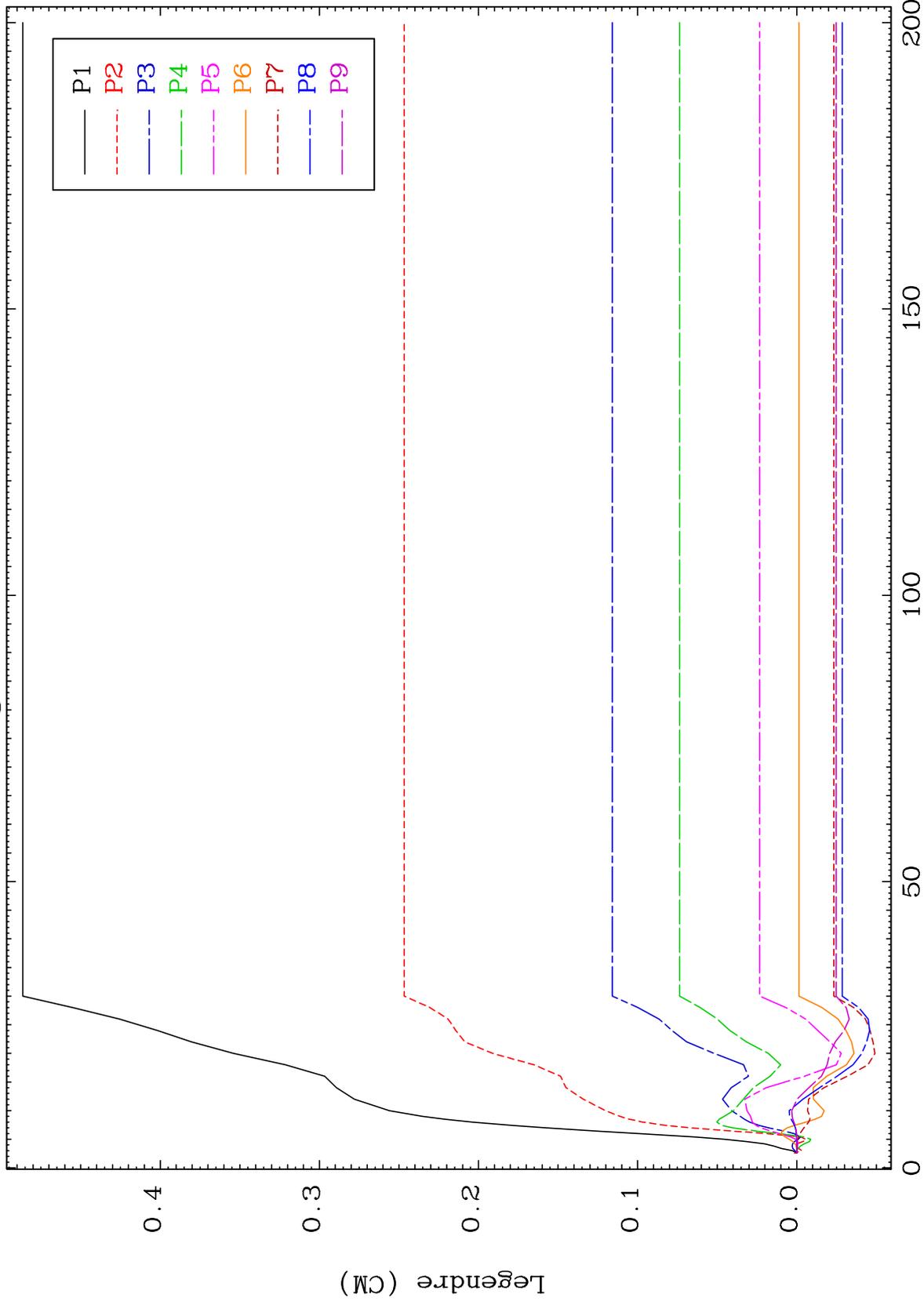
32-Ge-81



MAT 3258

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

32-Ge-81



92

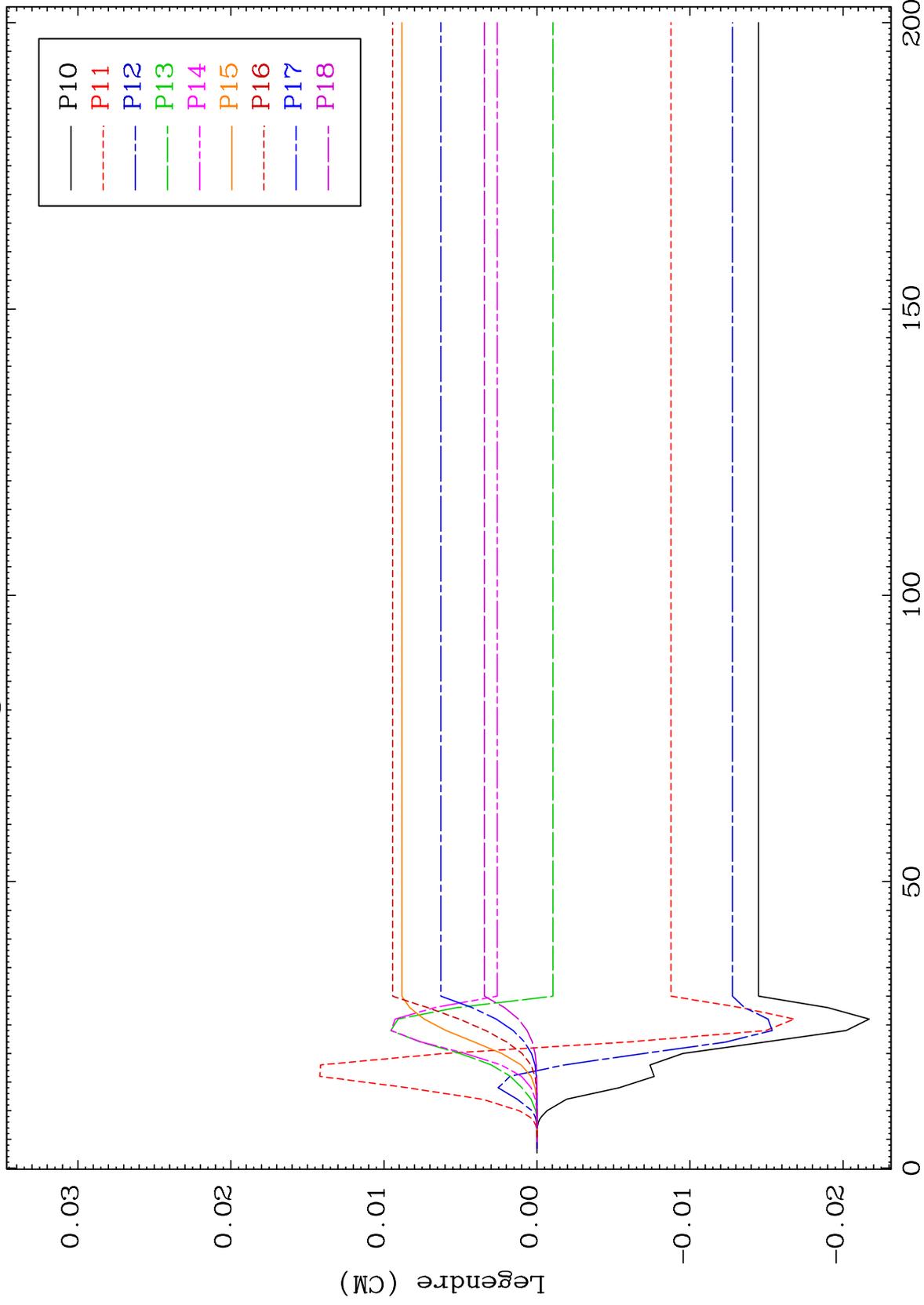
Incident Energy (MeV)

32-Ge-81

MAT 3258

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

32-Ge-81



93

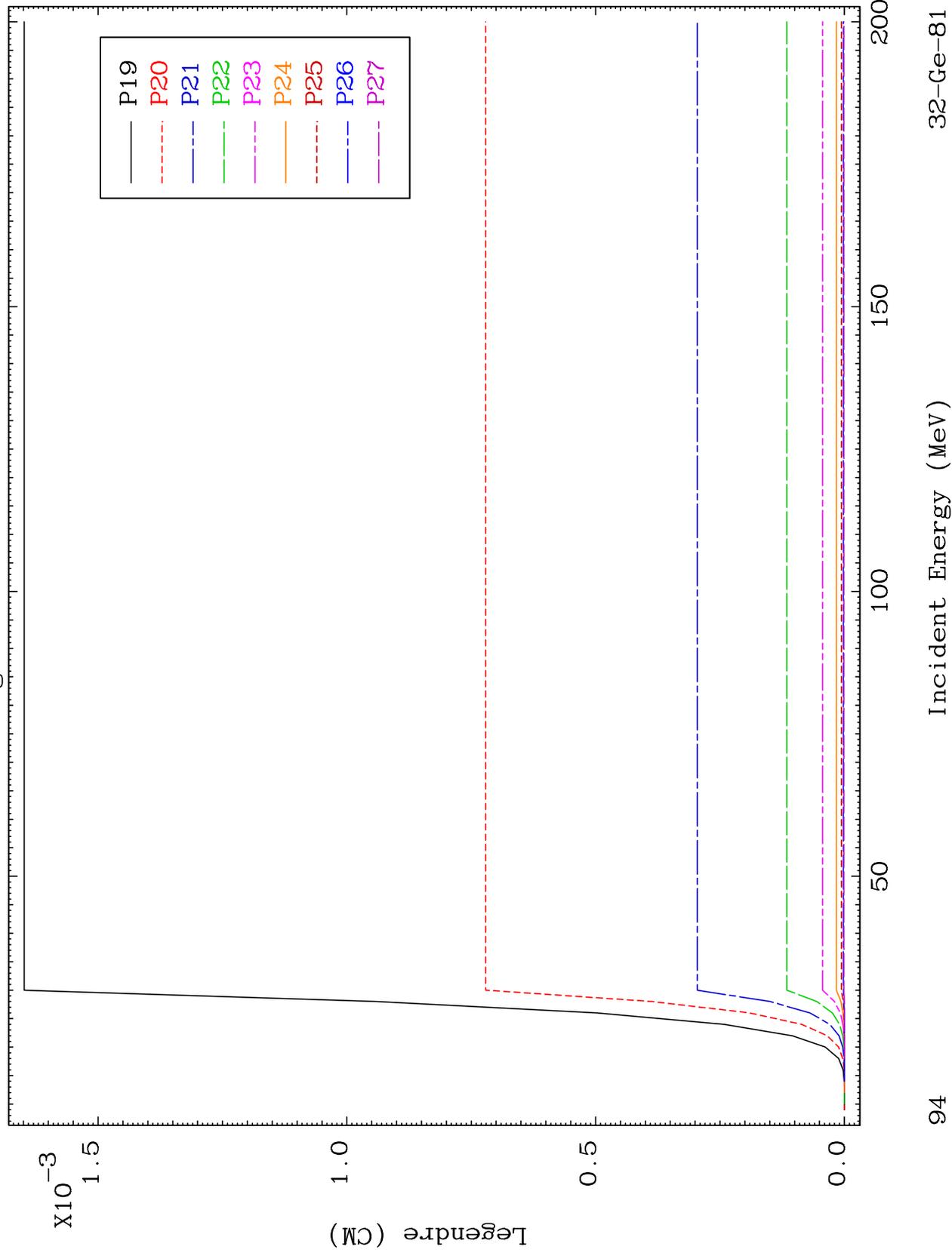
Incident Energy (MeV)

32-Ge-81

MAT 3258

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

32-Ge-81



94

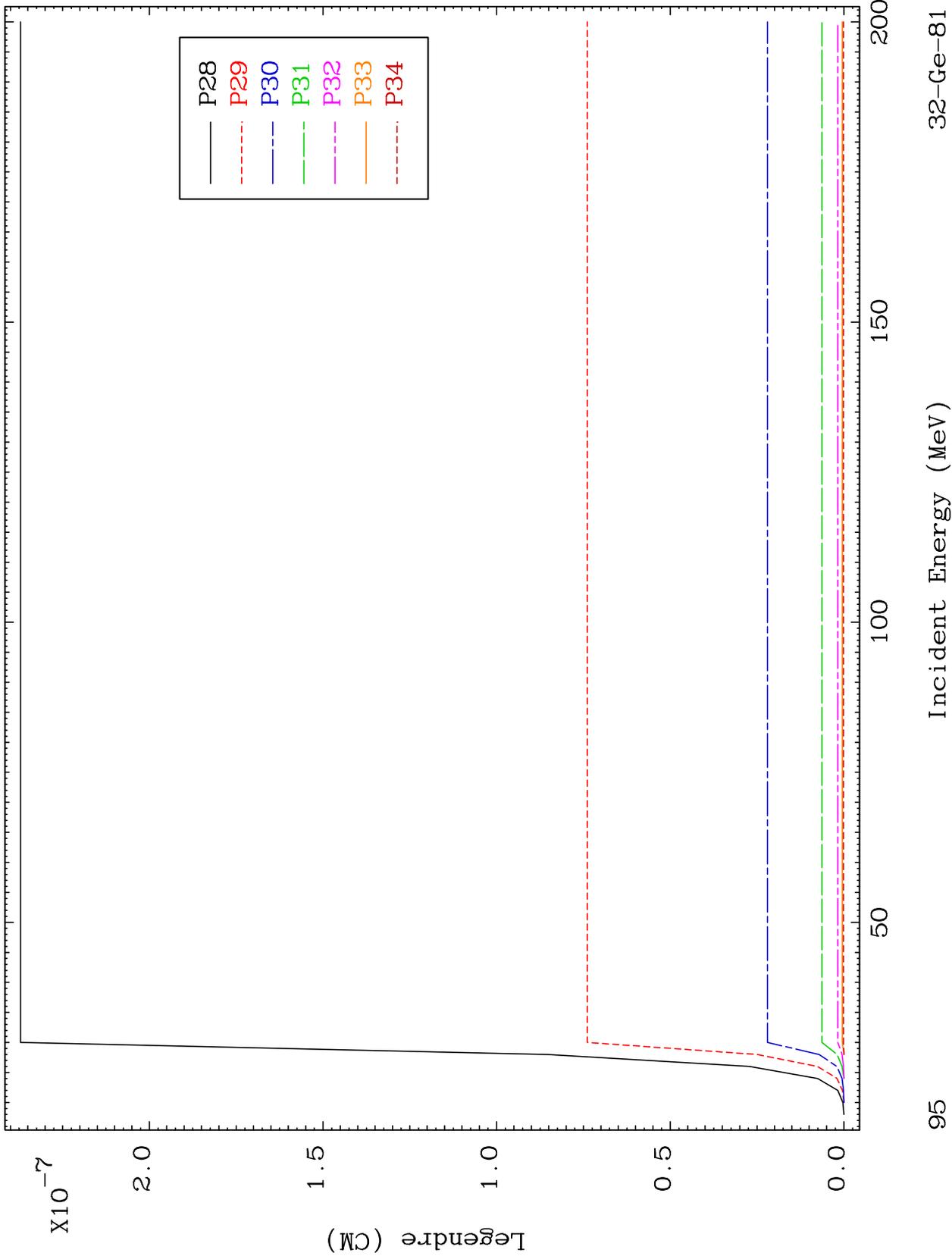
Incident Energy (MeV)

32-Ge-81

MAT 3258

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

32-Ge-81



95

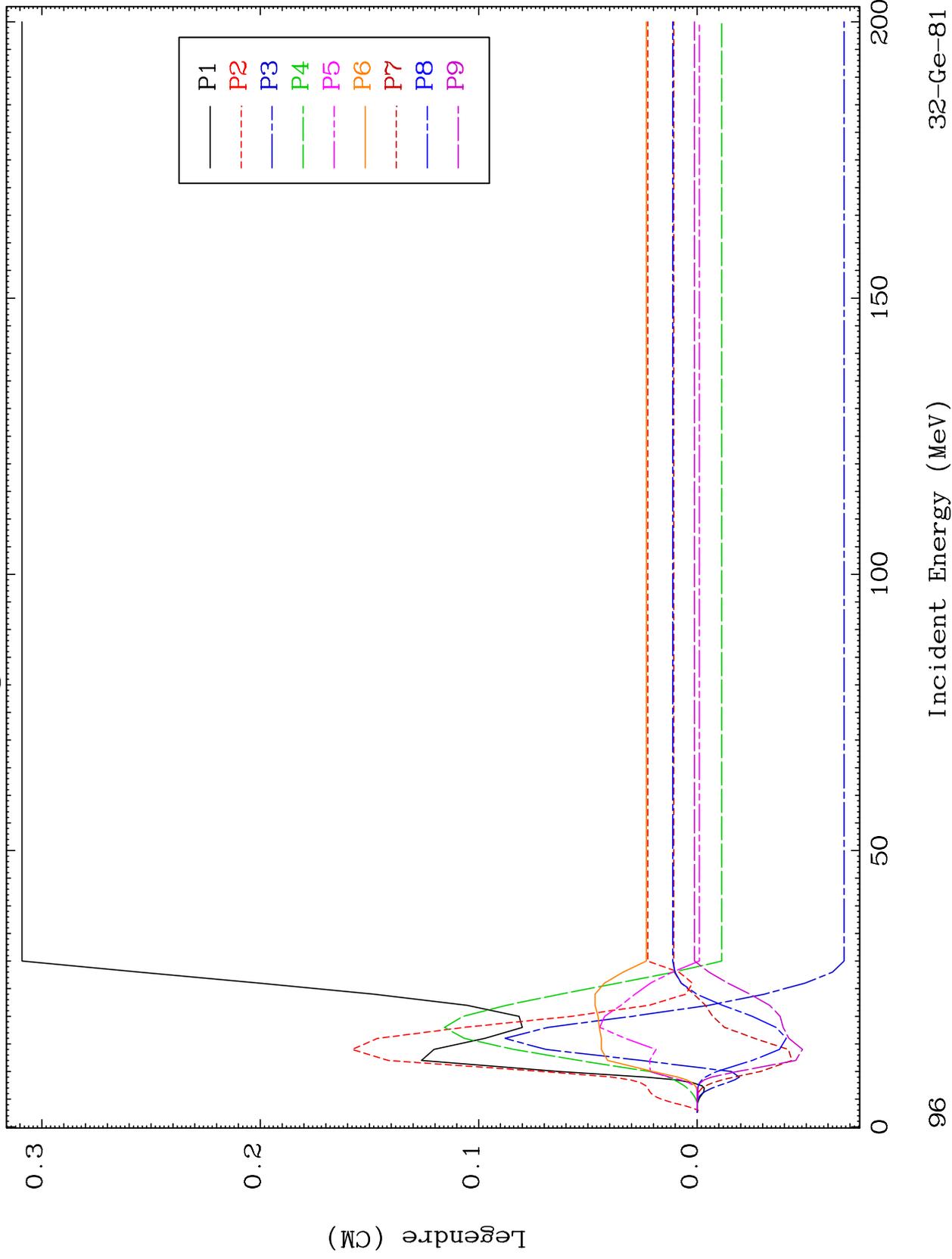
Incident Energy (MeV)

32-Ge-81

MAT 3258

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

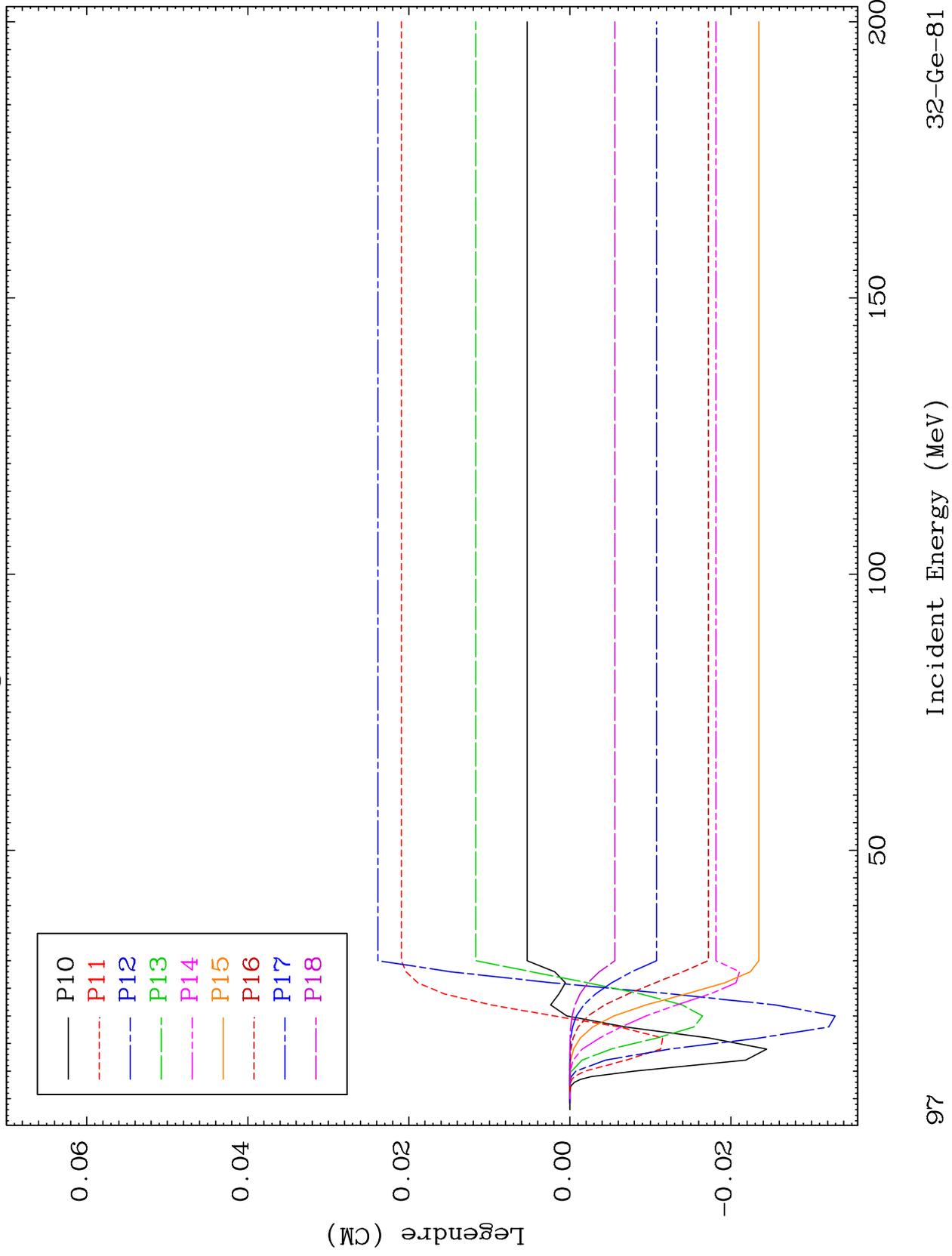
32-Ge-81



MAT 3258

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

32-Ge-81



97

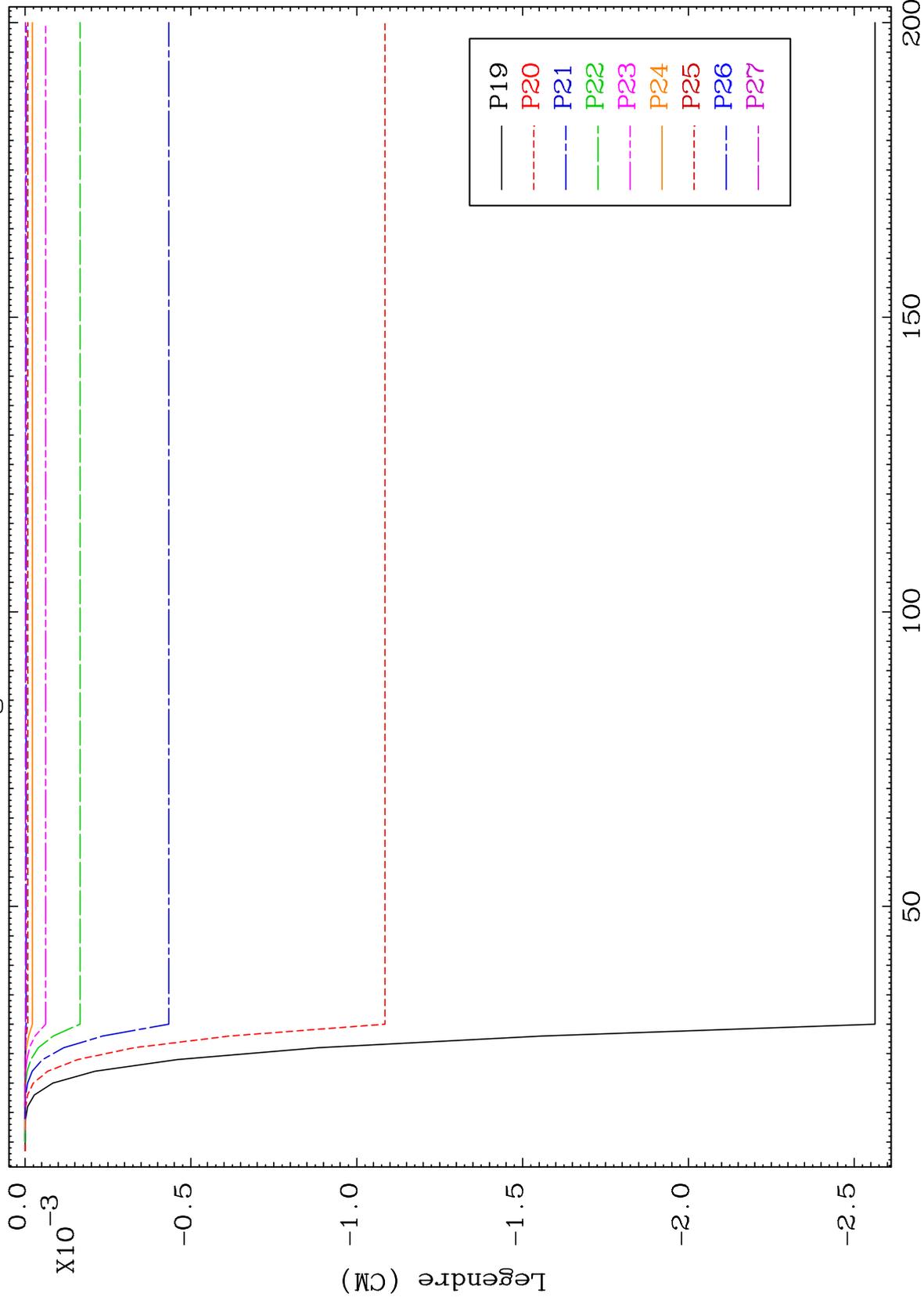
32-Ge-81

MAT 3258

MT= 71 (n,n') Level

32-Ge-81

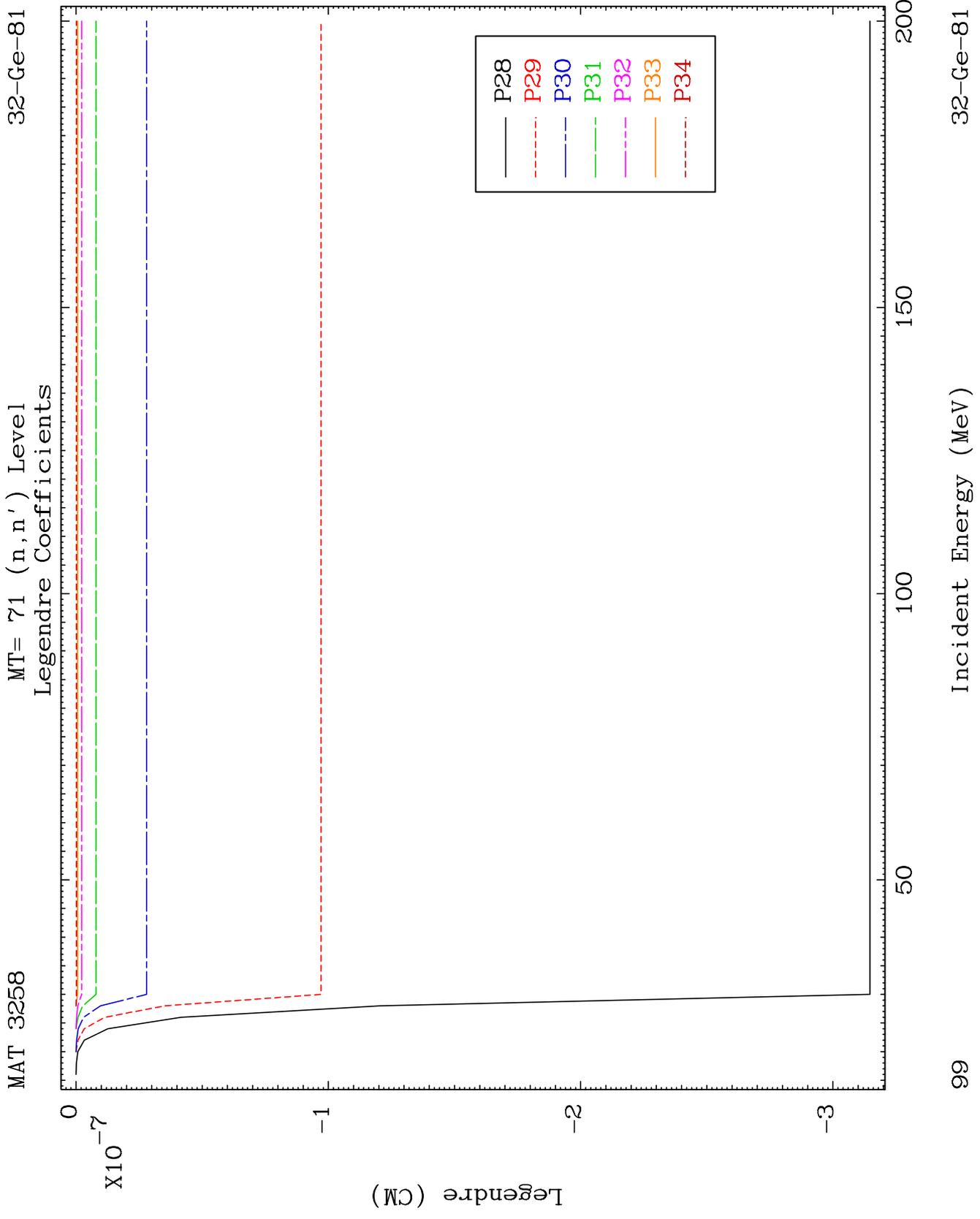
Legendre Coefficients



98

Incident Energy (MeV)

32-Ge-81

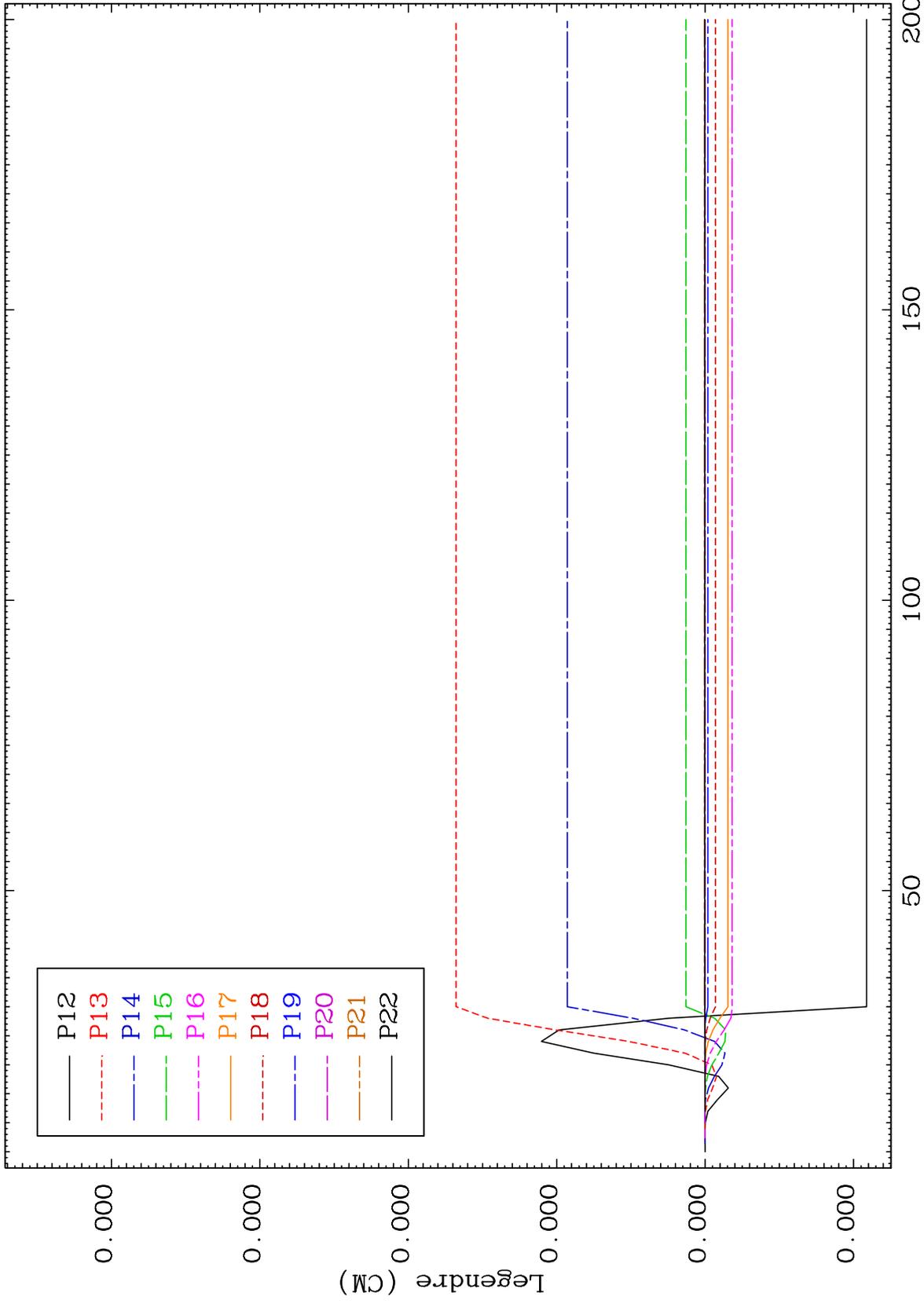




MAT 3258

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

32-Ge-81



101

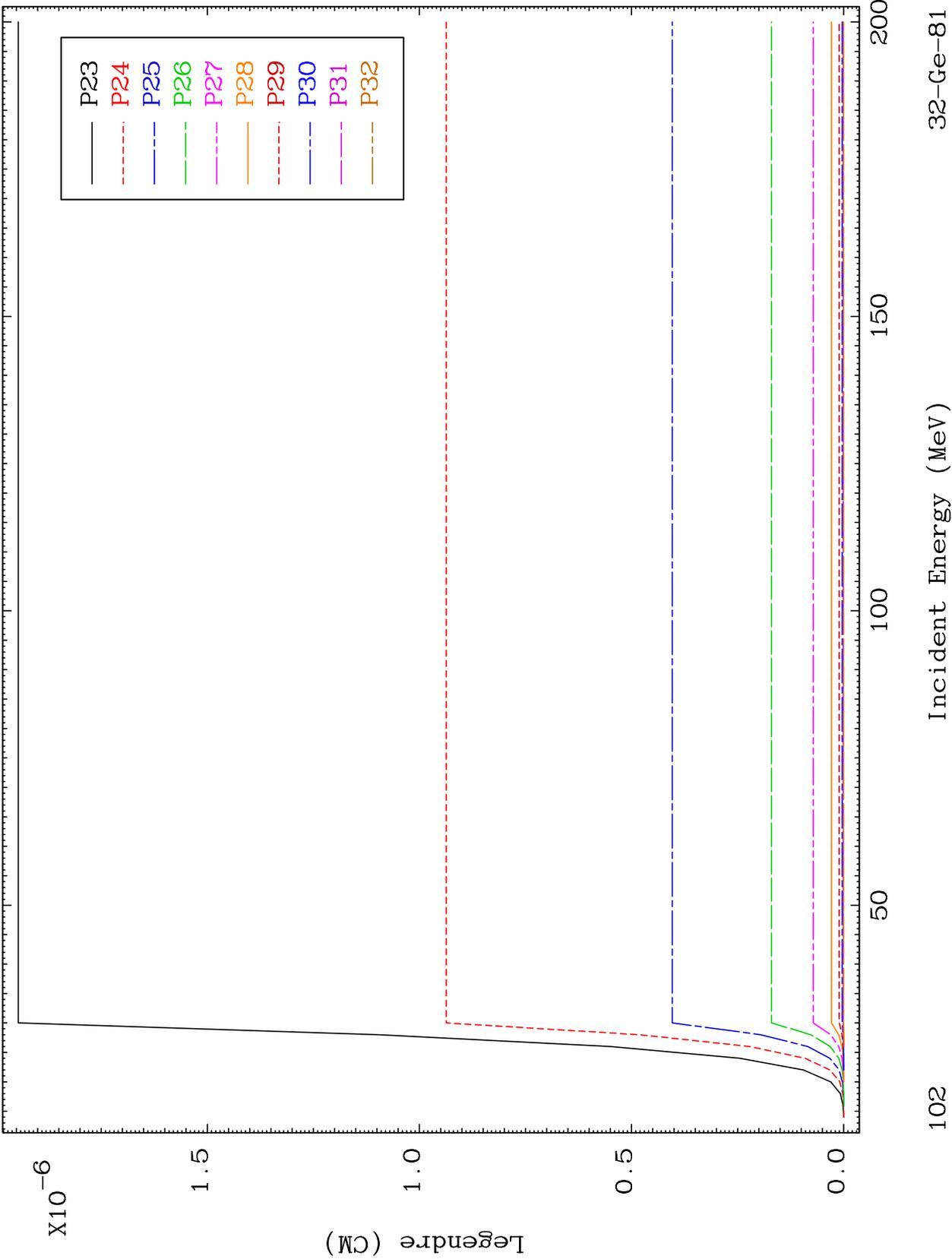
Incident Energy (MeV)

32-Ge-81

MAT 3258

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

32-Ge-81



102

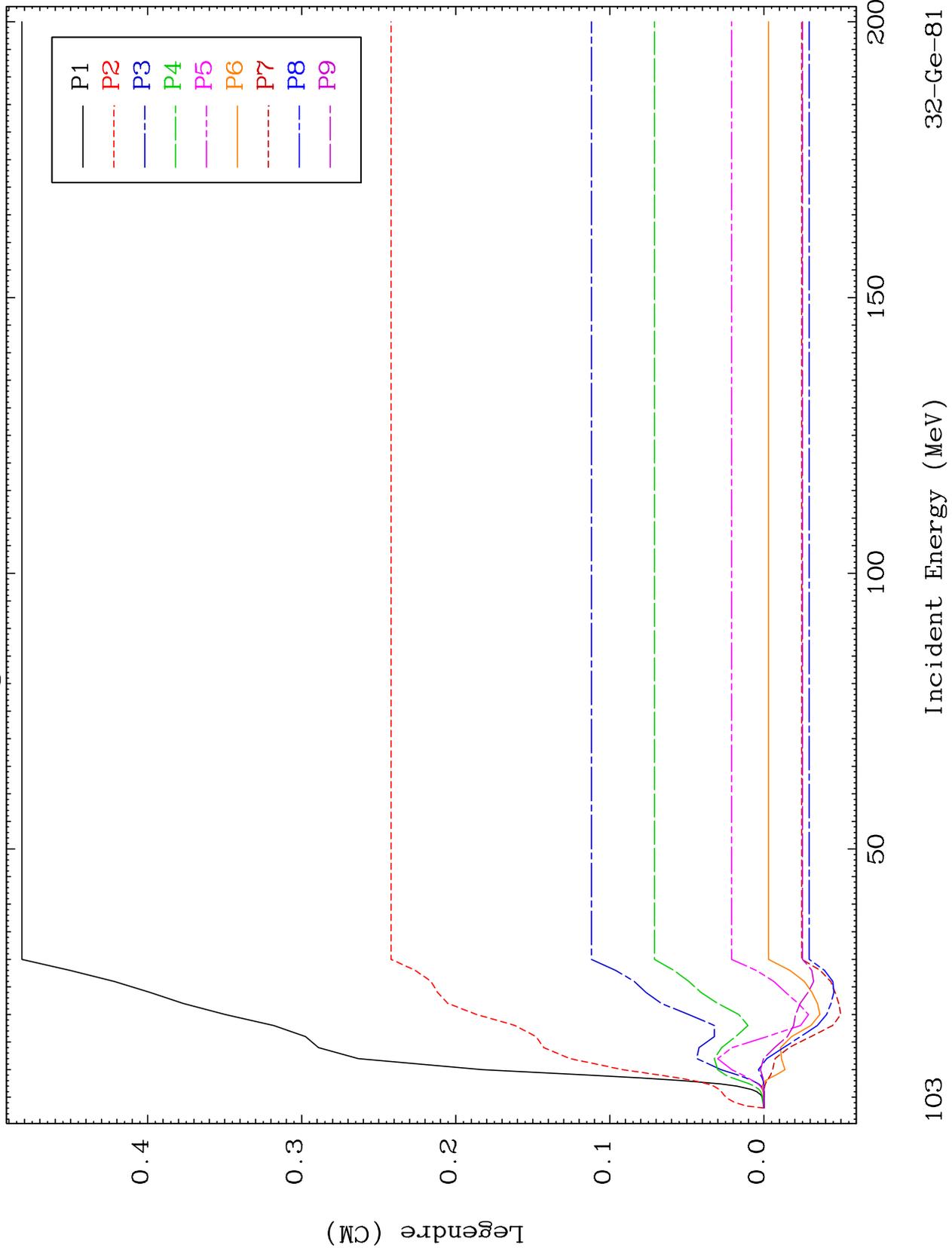
Incident Energy (MeV)

32-Ge-81

MAT 3258

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

32-Ge-81



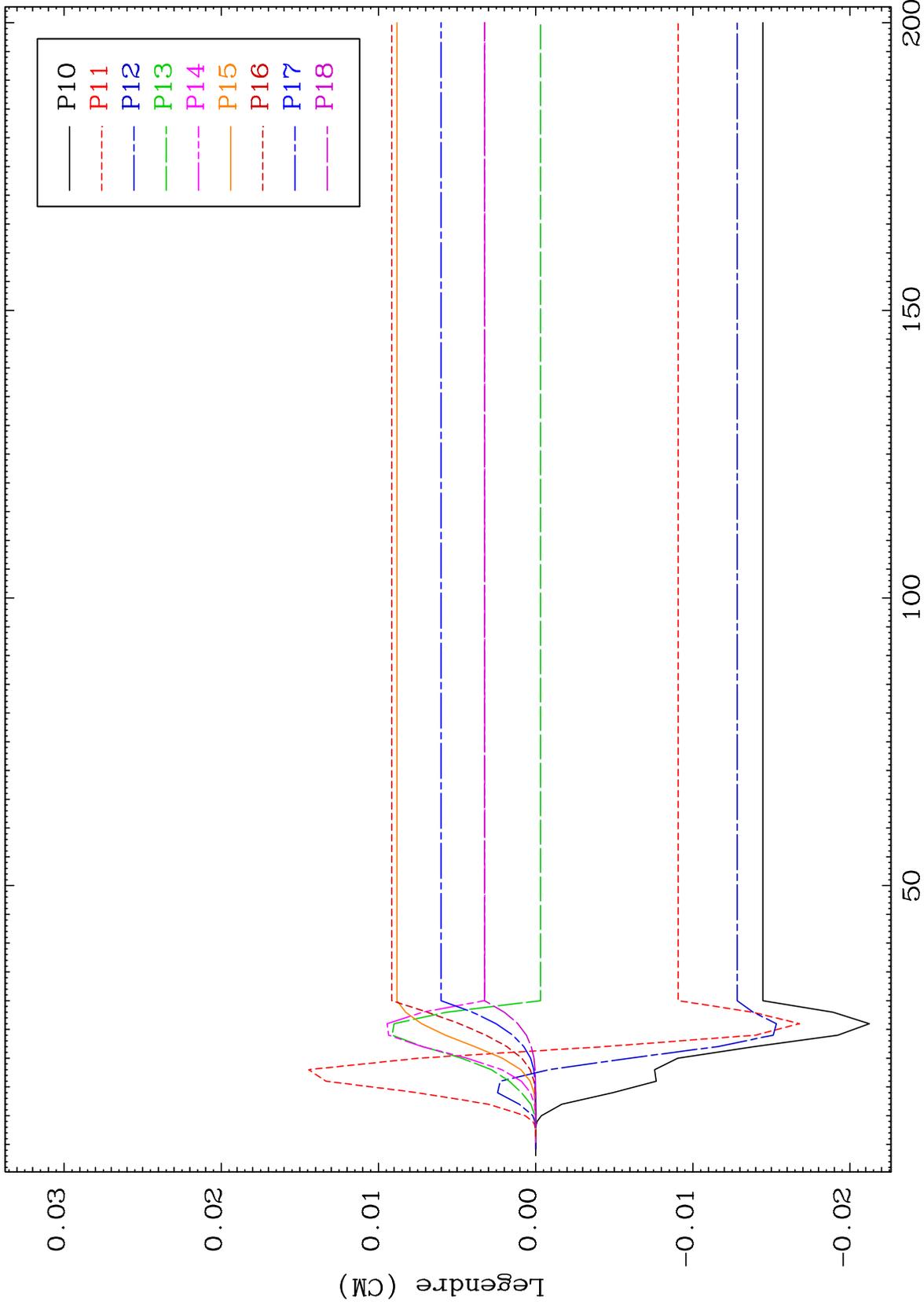
103

32-Ge-81

MAT 3258

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

32-Ge-81



104

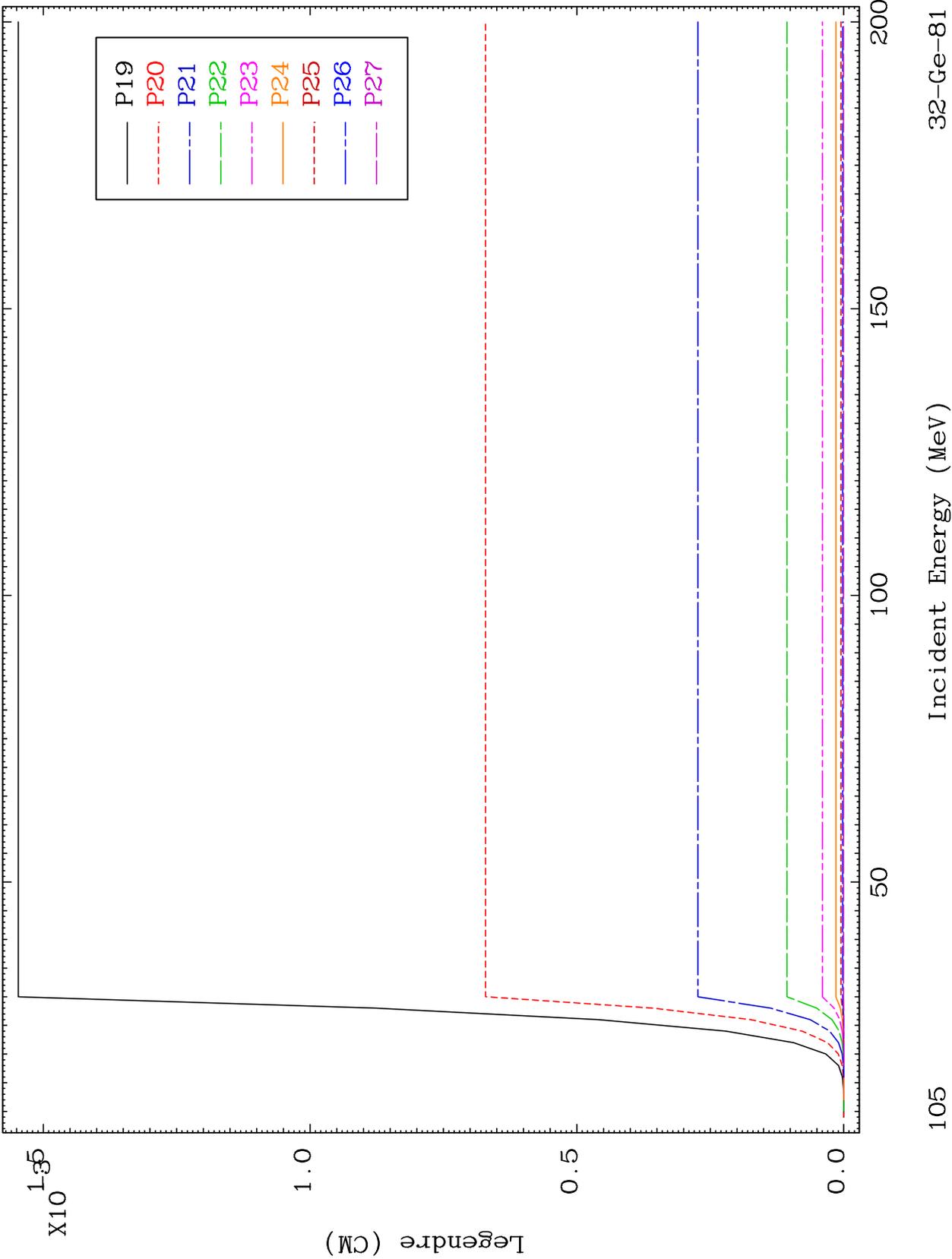
Incident Energy (MeV)

32-Ge-81

MAT 3258

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

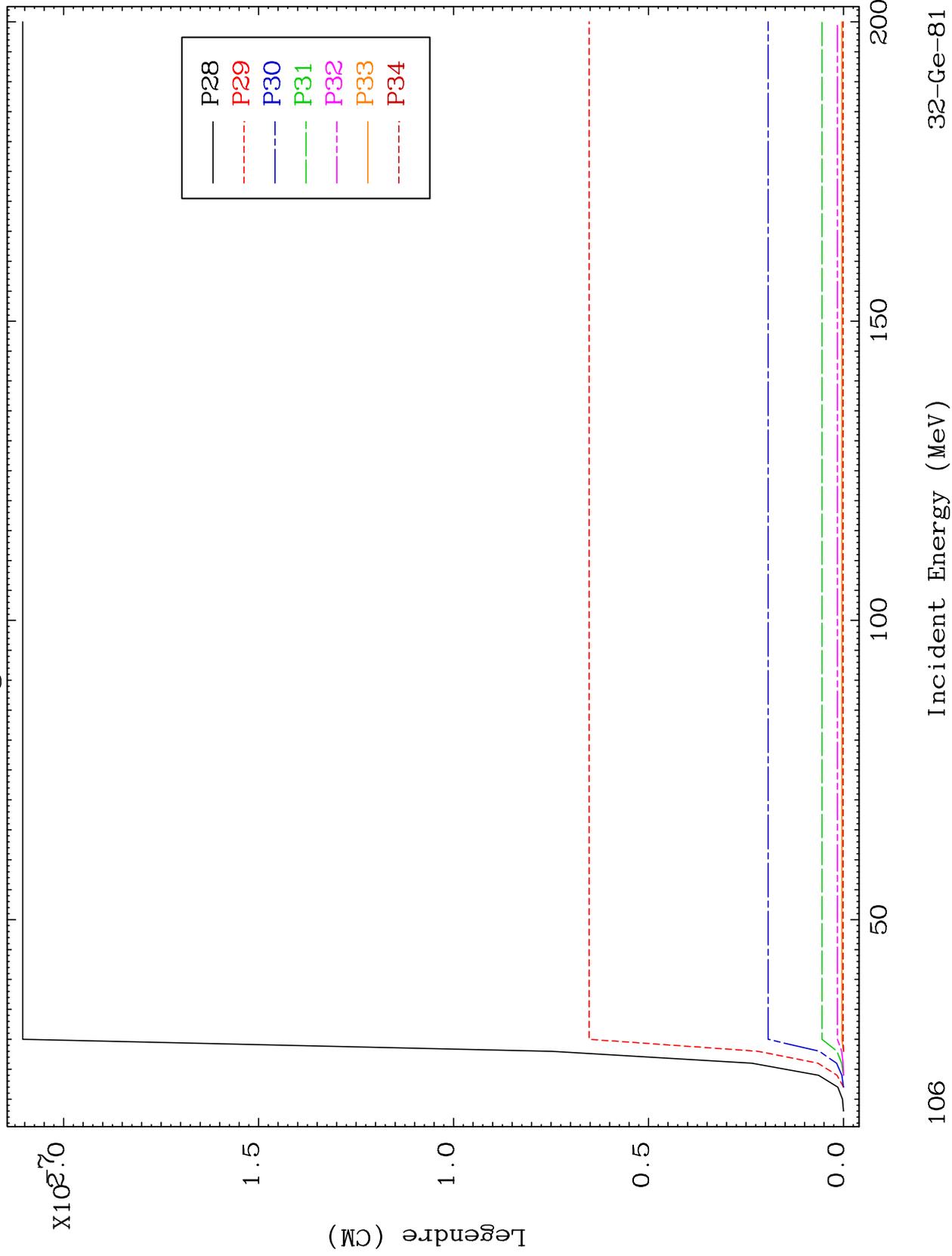
32-Ge-81



MAT 3258

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

32-Ge-81



106

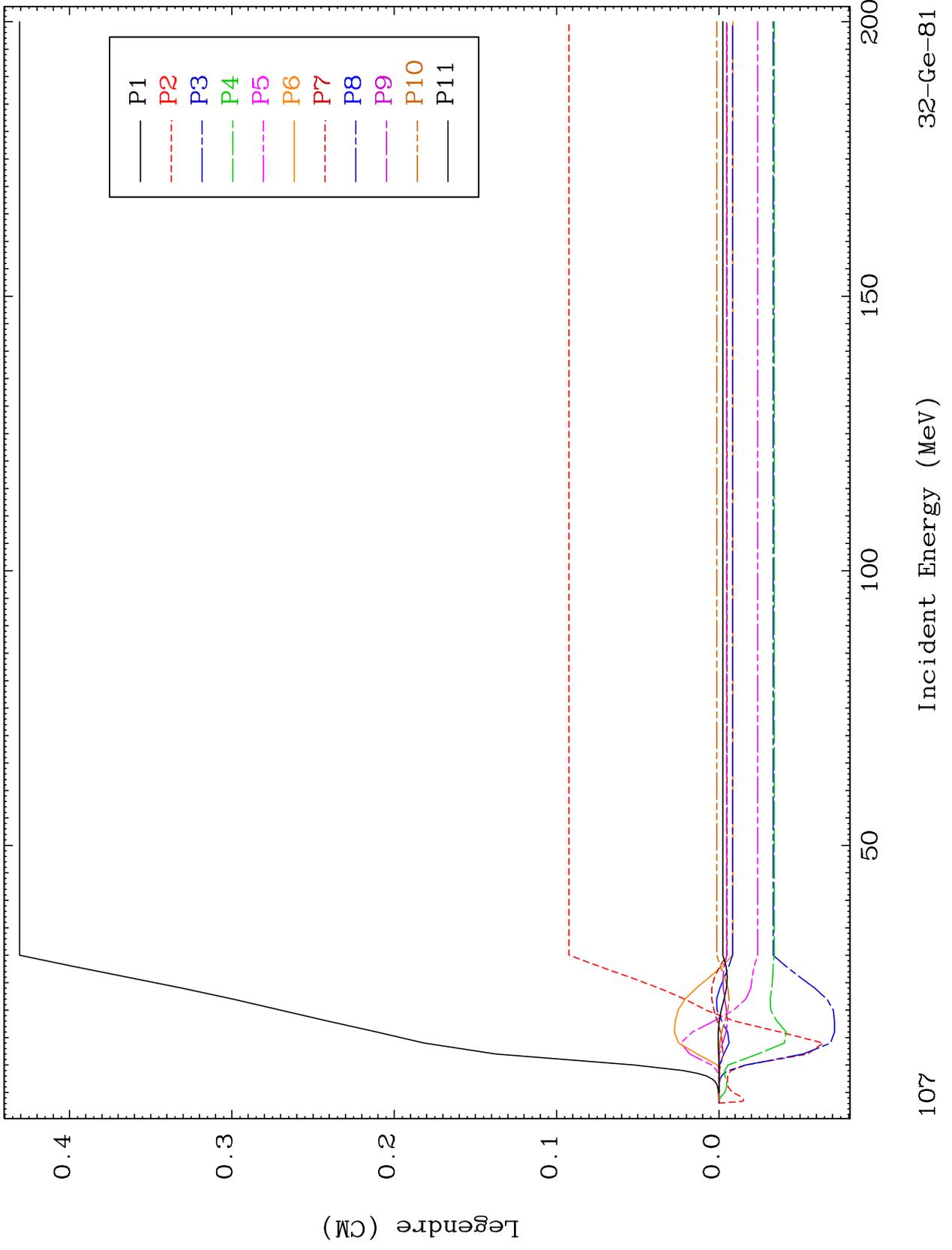
Incident Energy (MeV)

32-Ge-81

MAT 3258

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

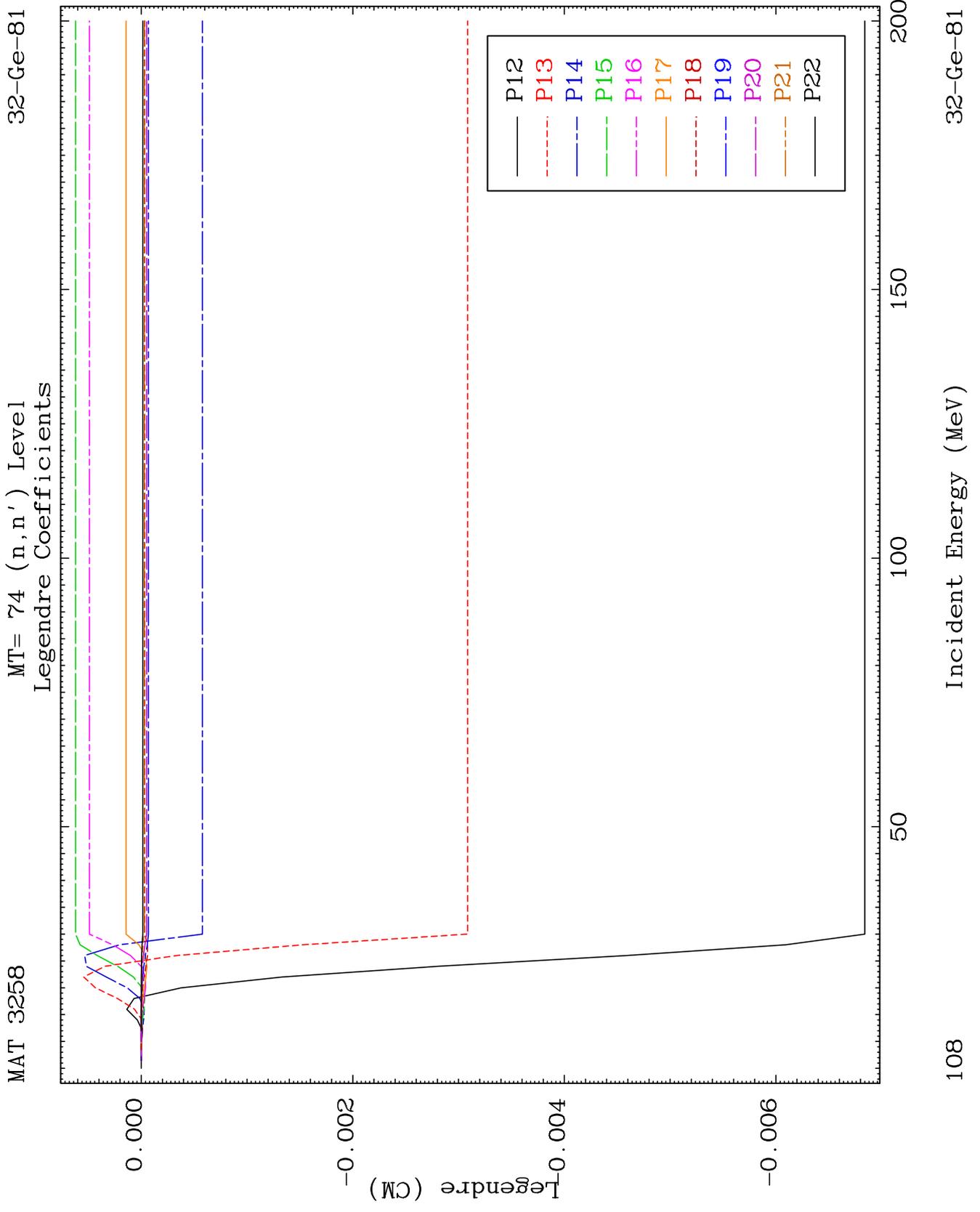
32-Ge-81

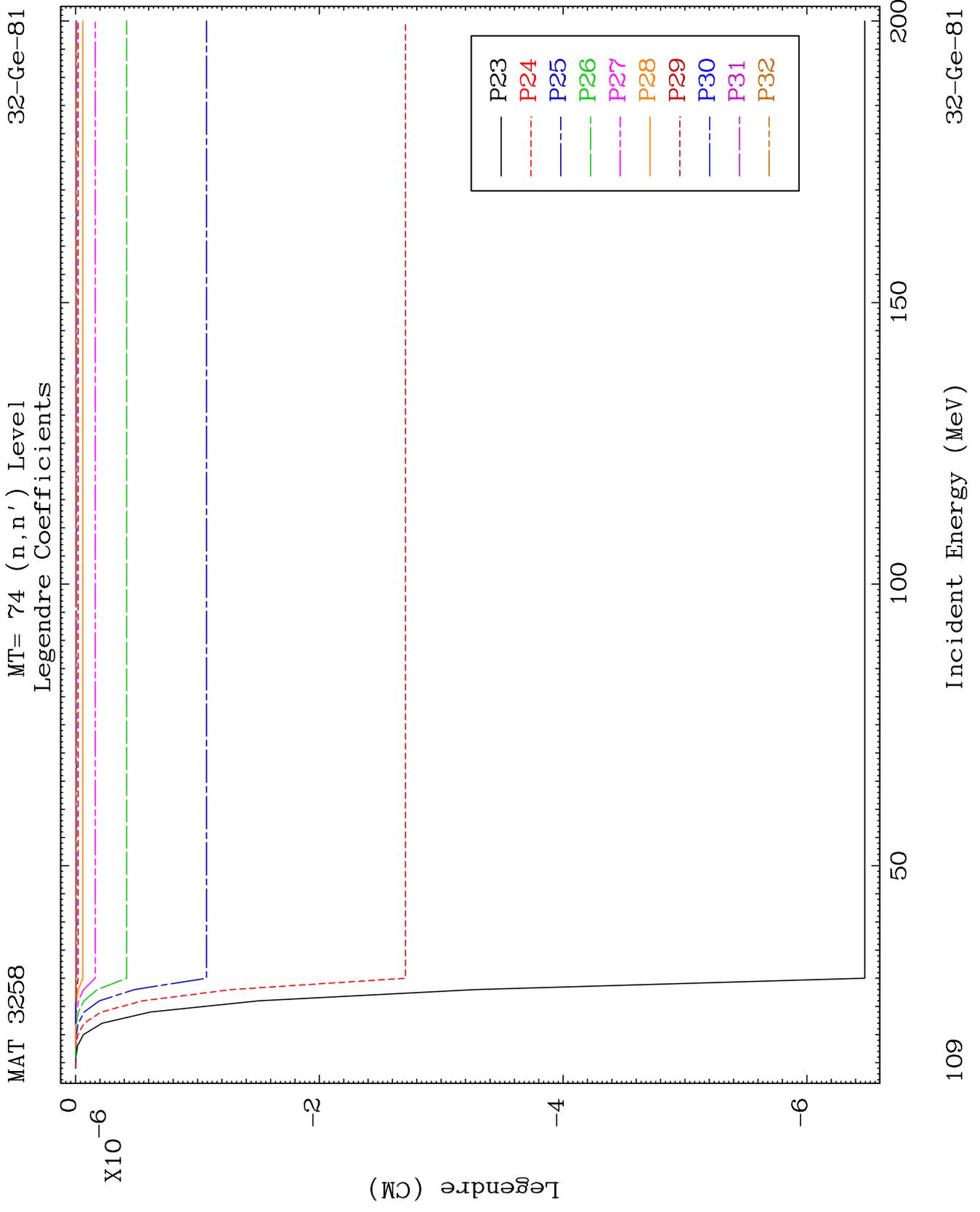


107

Incident Energy (MeV)

32-Ge-81

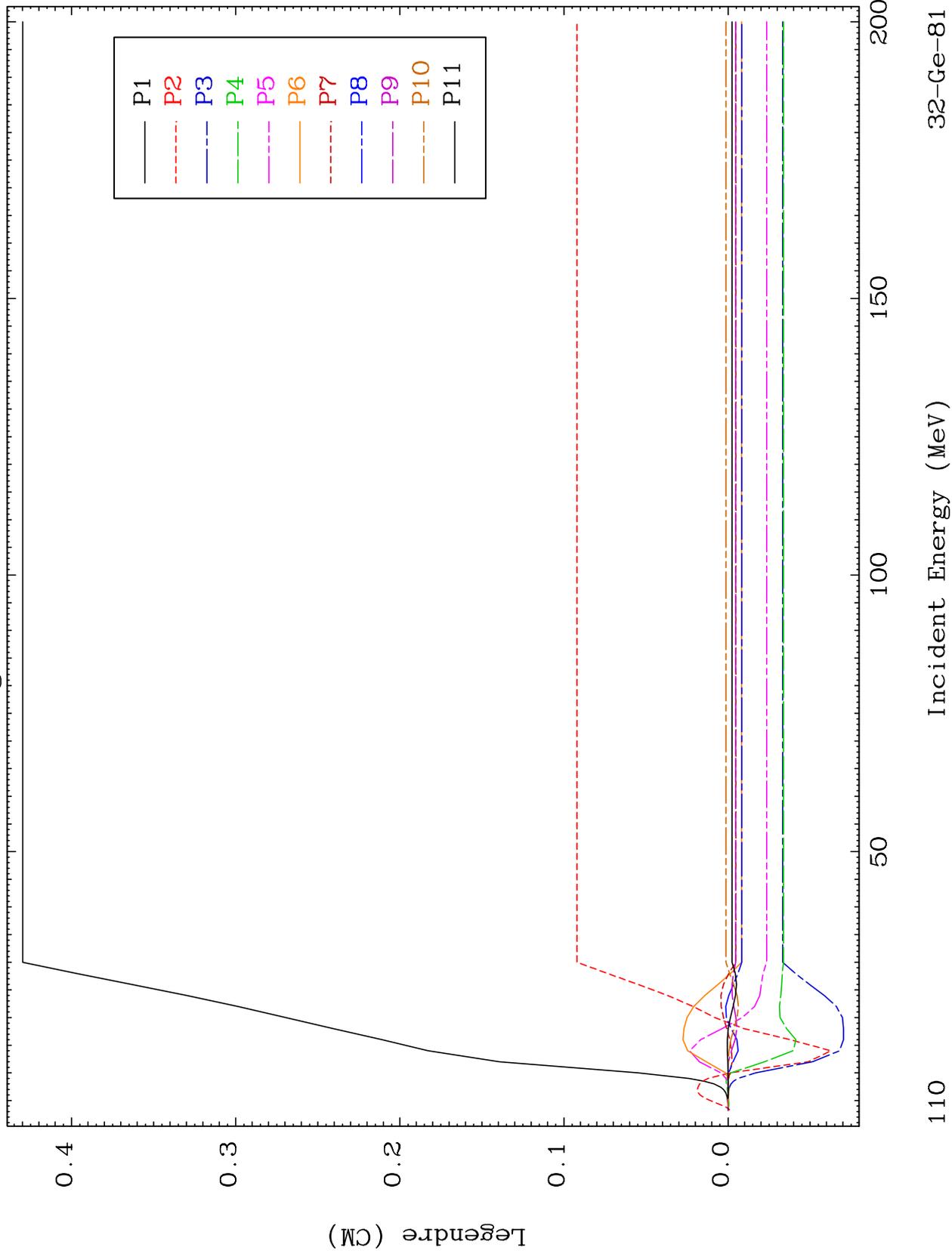




MAT 3258

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

32-Ge-81



32-Ge-81

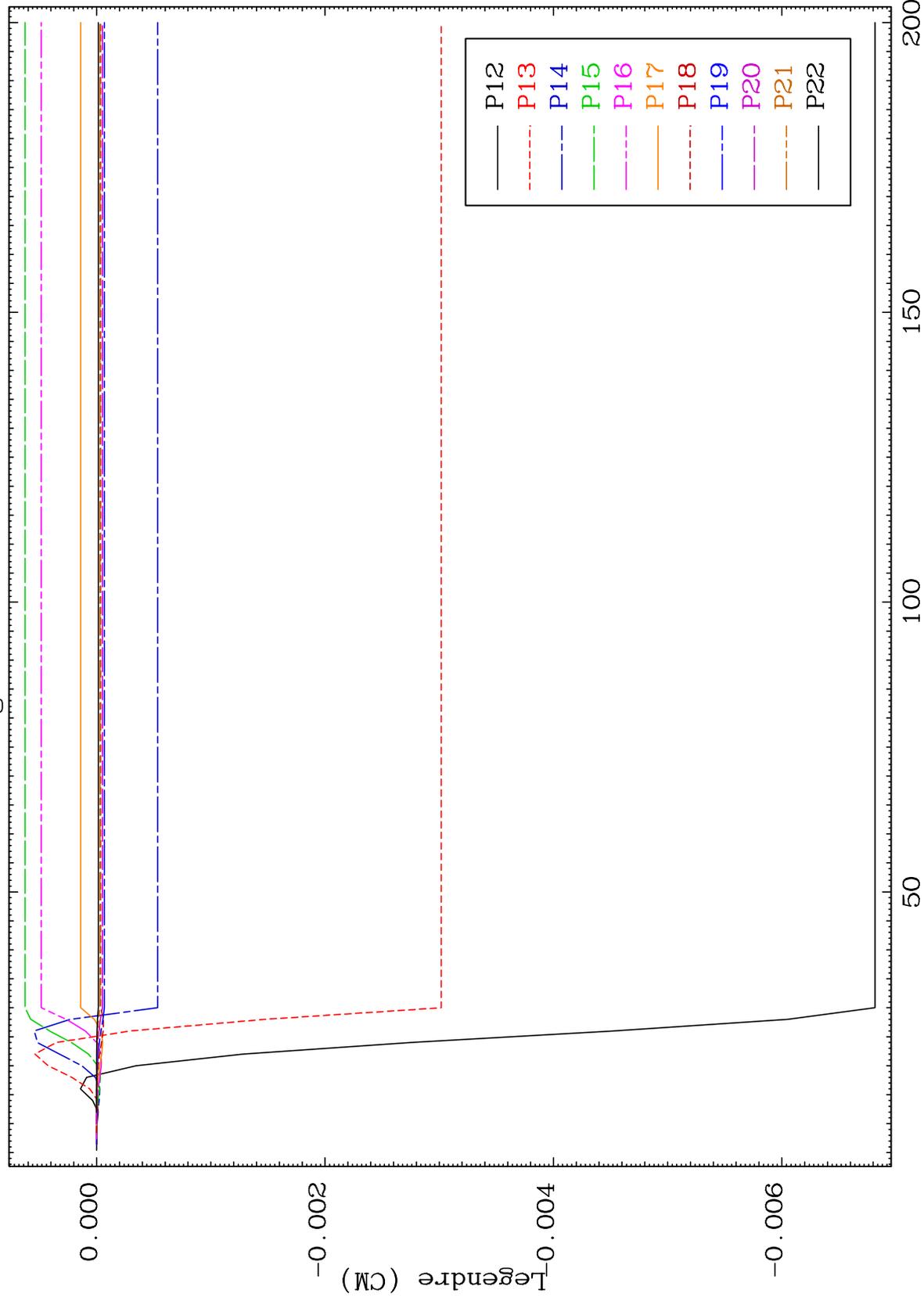
Incident Energy (MeV)

110

MAT 3258

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

32-Ge-81



111

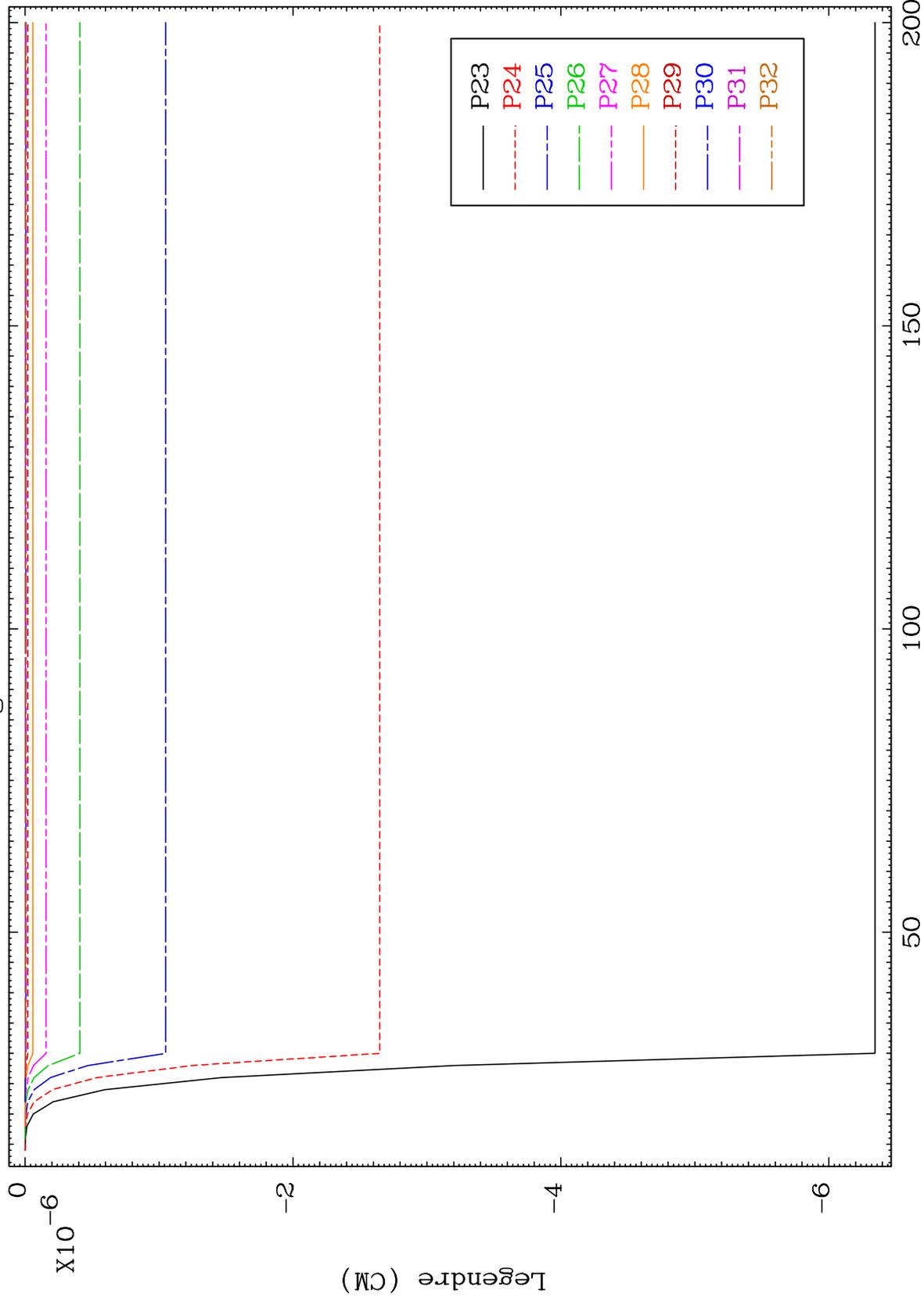
Incident Energy (MeV)

32-Ge-81

MAT 3258

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

32-Ge-81



112

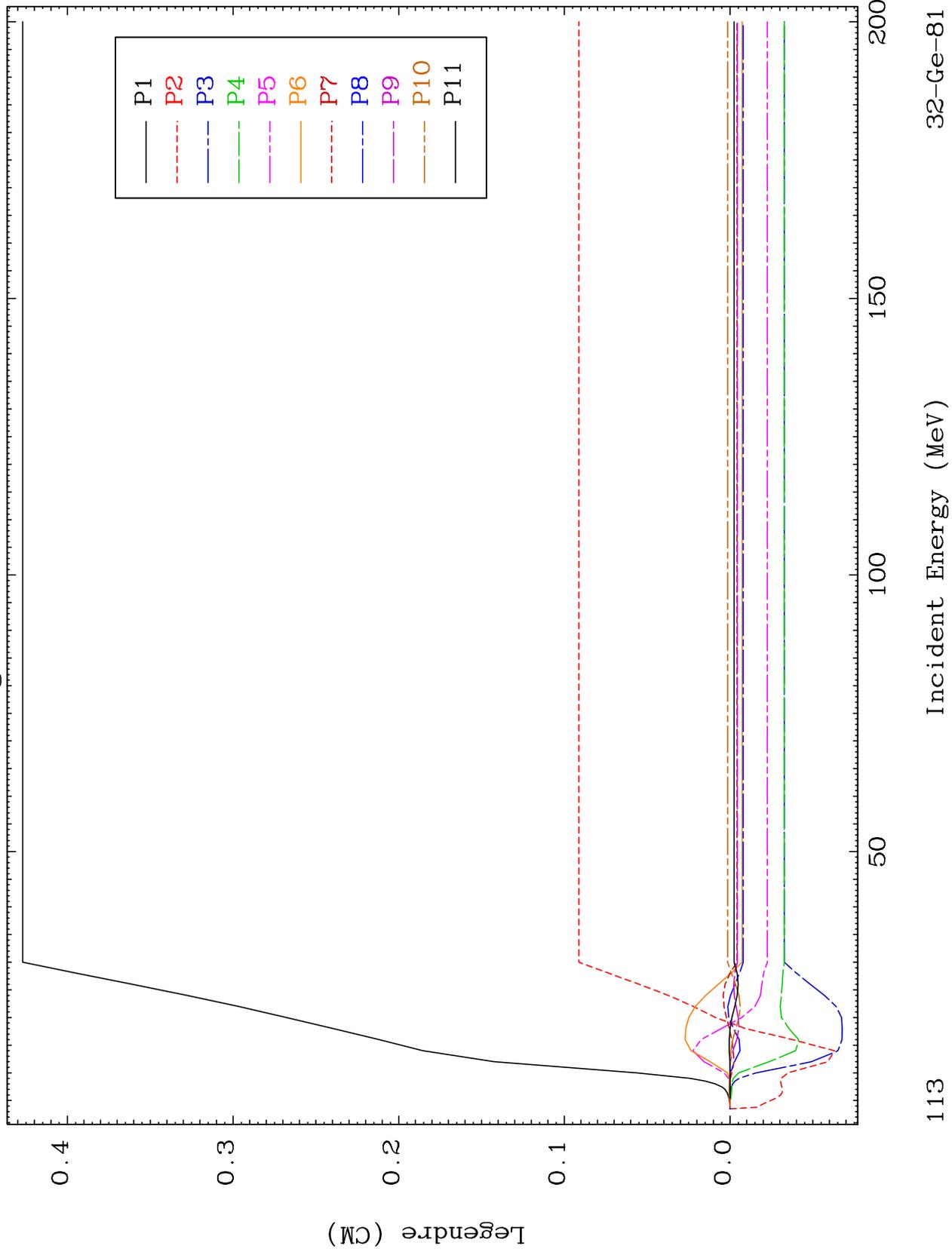
Incident Energy (MeV)

32-Ge-81

MAT 3258

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

32-Ge-81



113

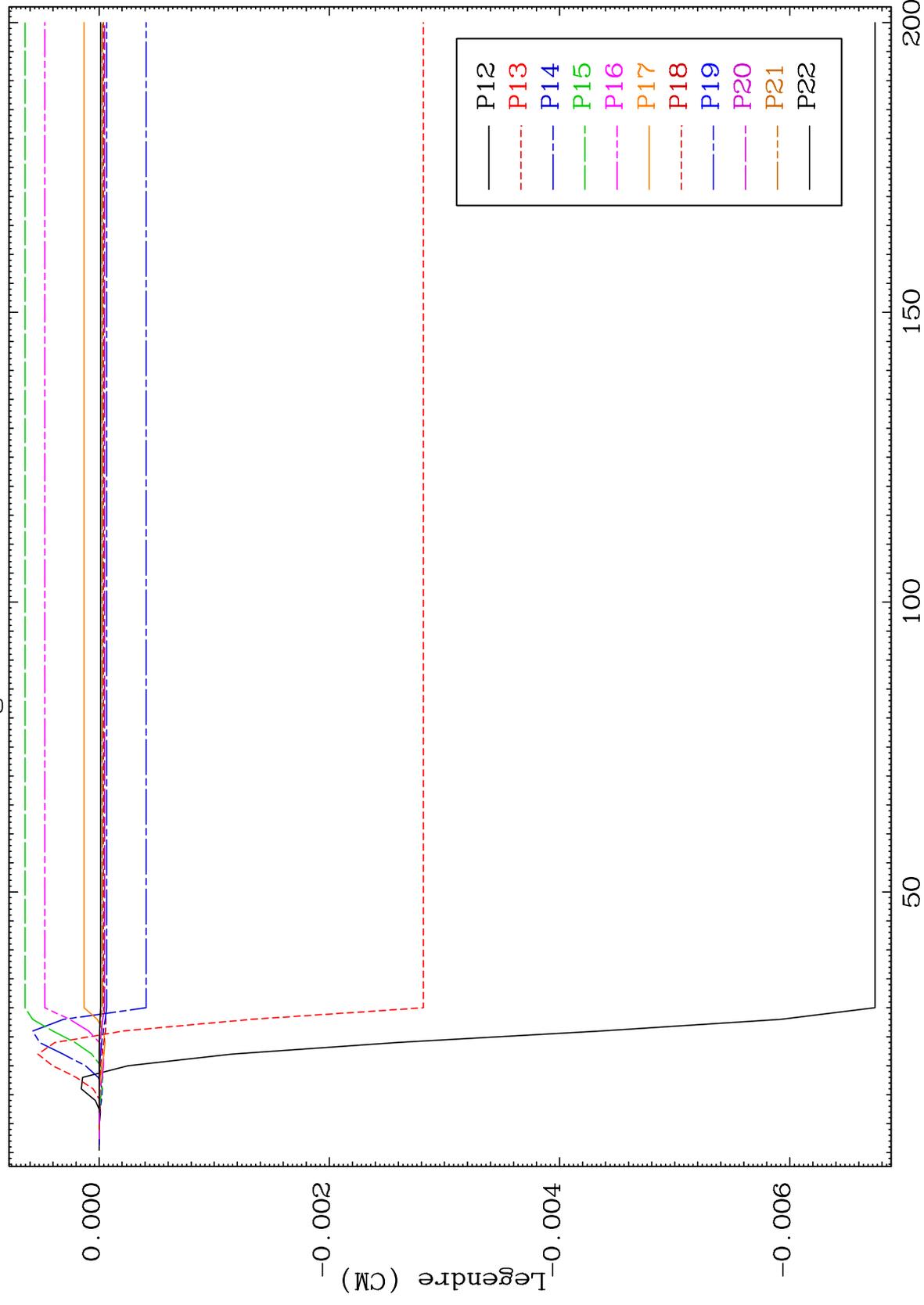
Incident Energy (MeV)

32-Ge-81

MAT 3258

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

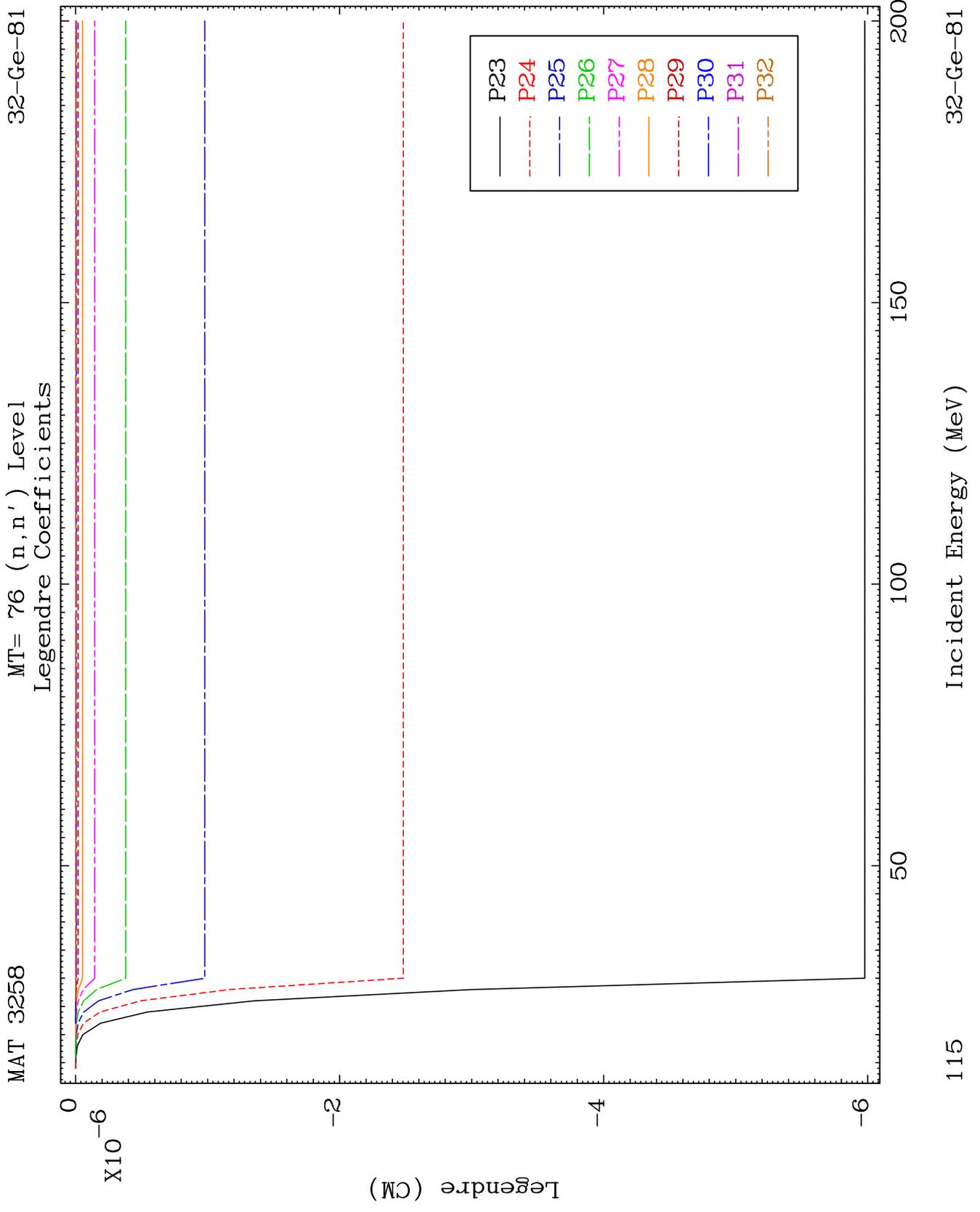
32-Ge-81



114

Incident Energy (MeV)

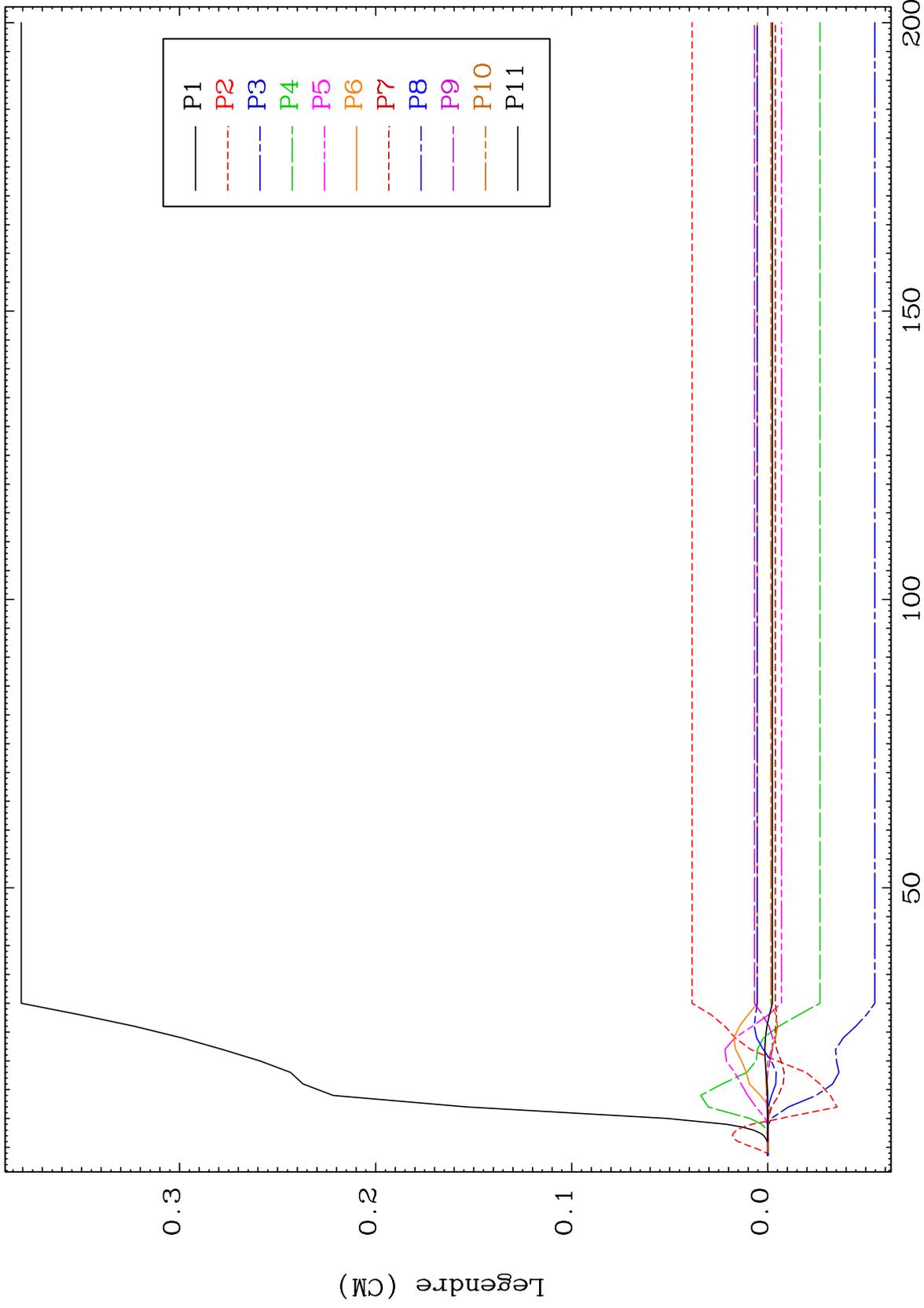
32-Ge-81



MAT 3258

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

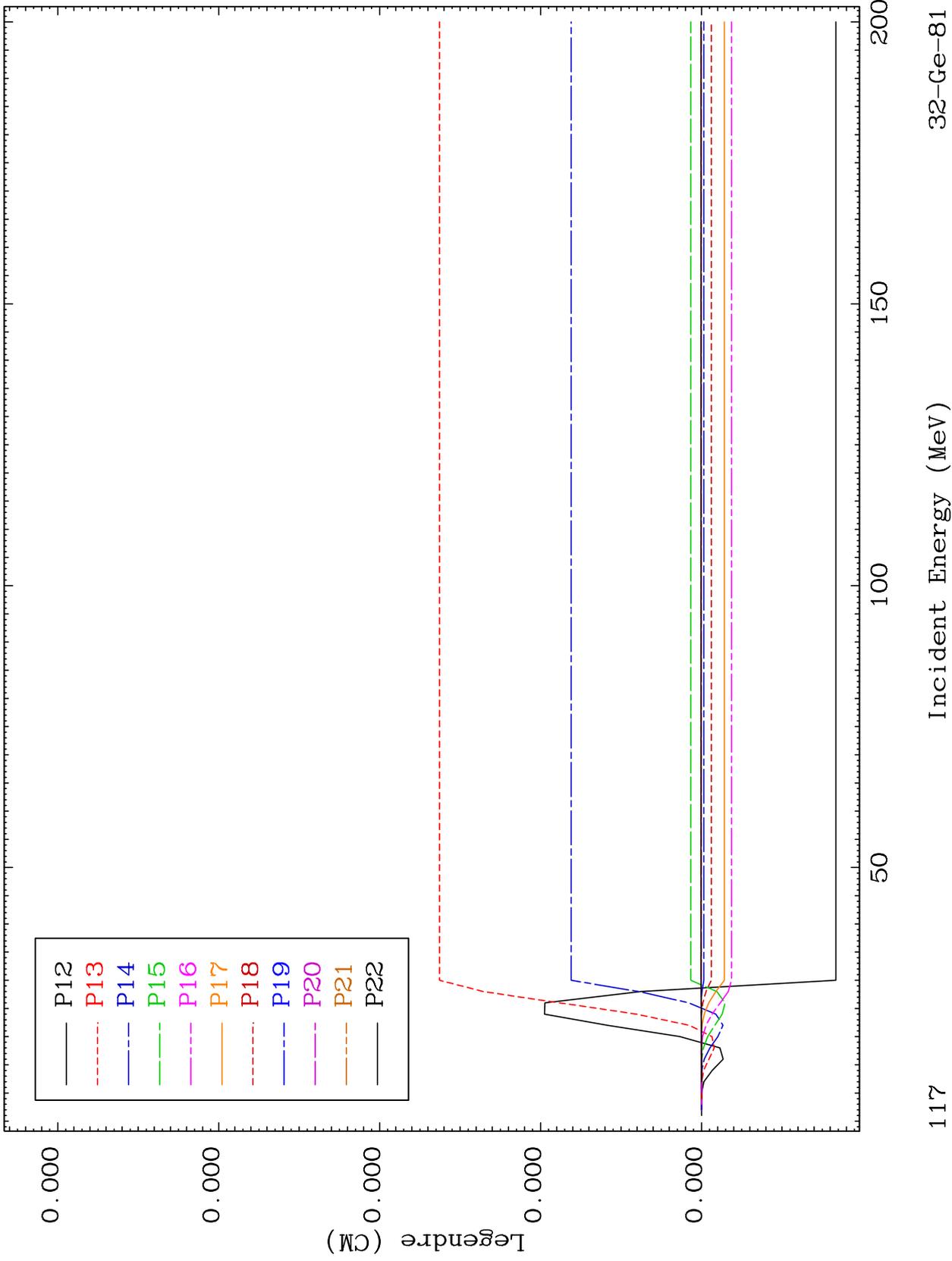
32-Ge-81



116

Incident Energy (MeV)

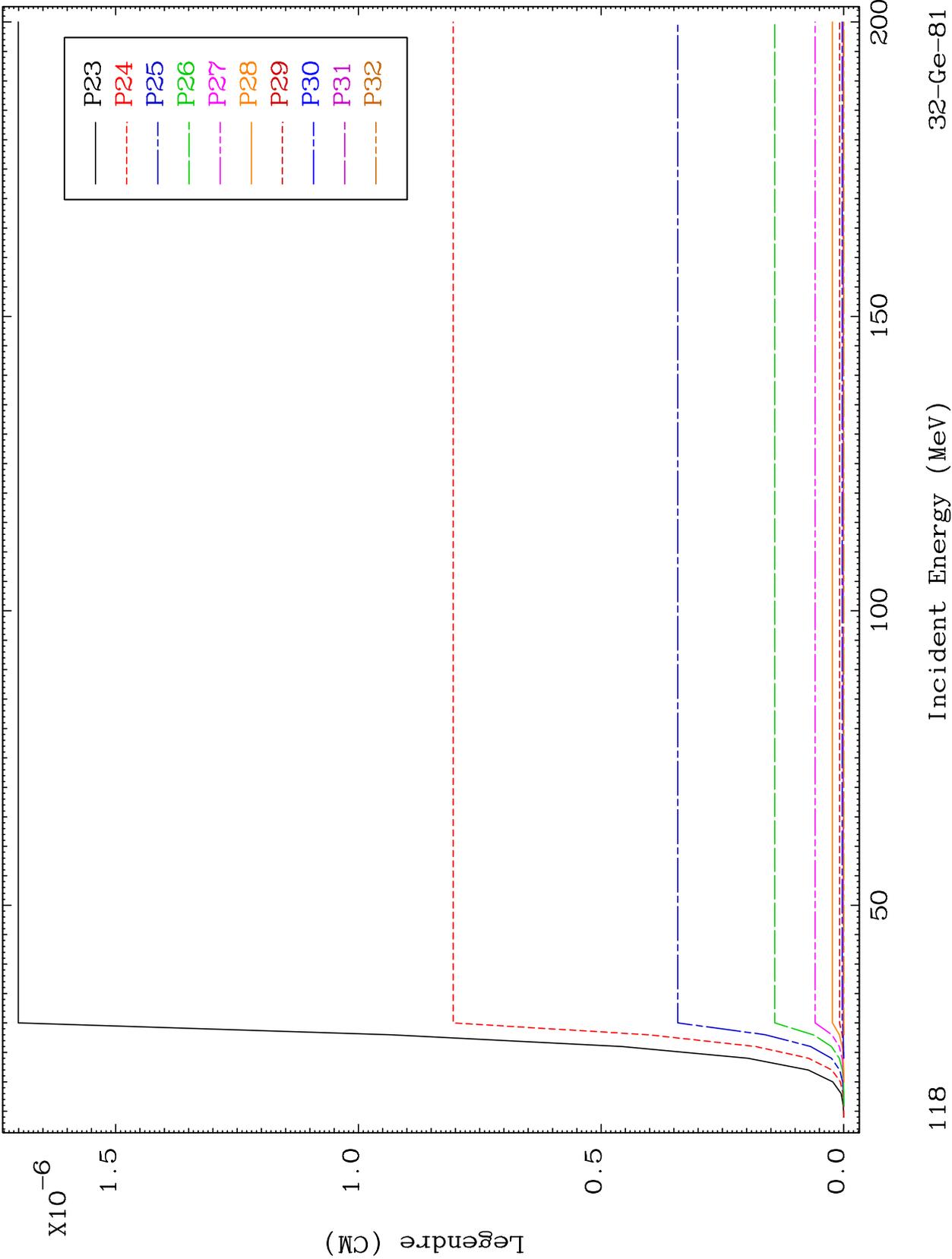
32-Ge-81



MAT 3258

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

32-Ge-81

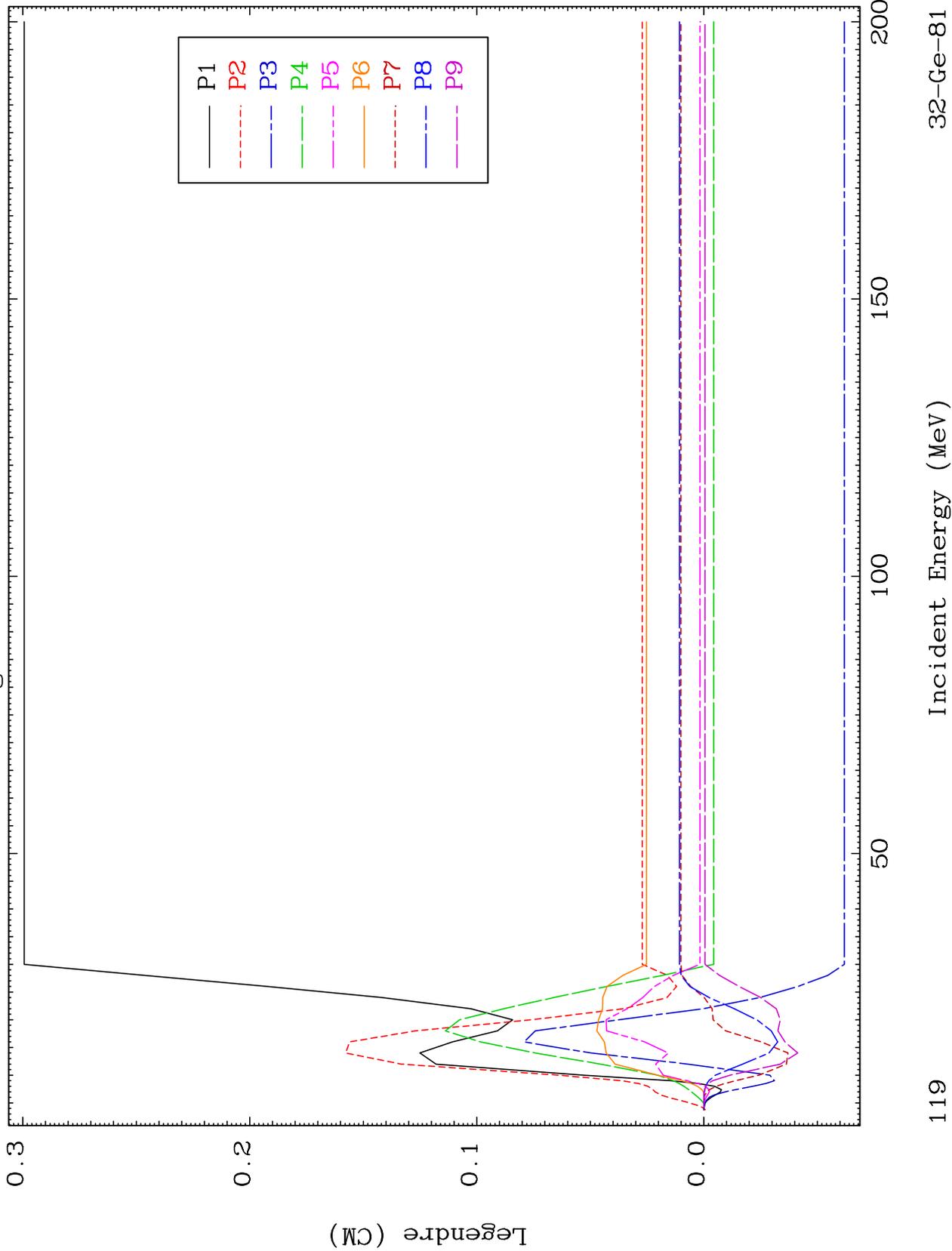


118

MAT 3258

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

32-Ge-81

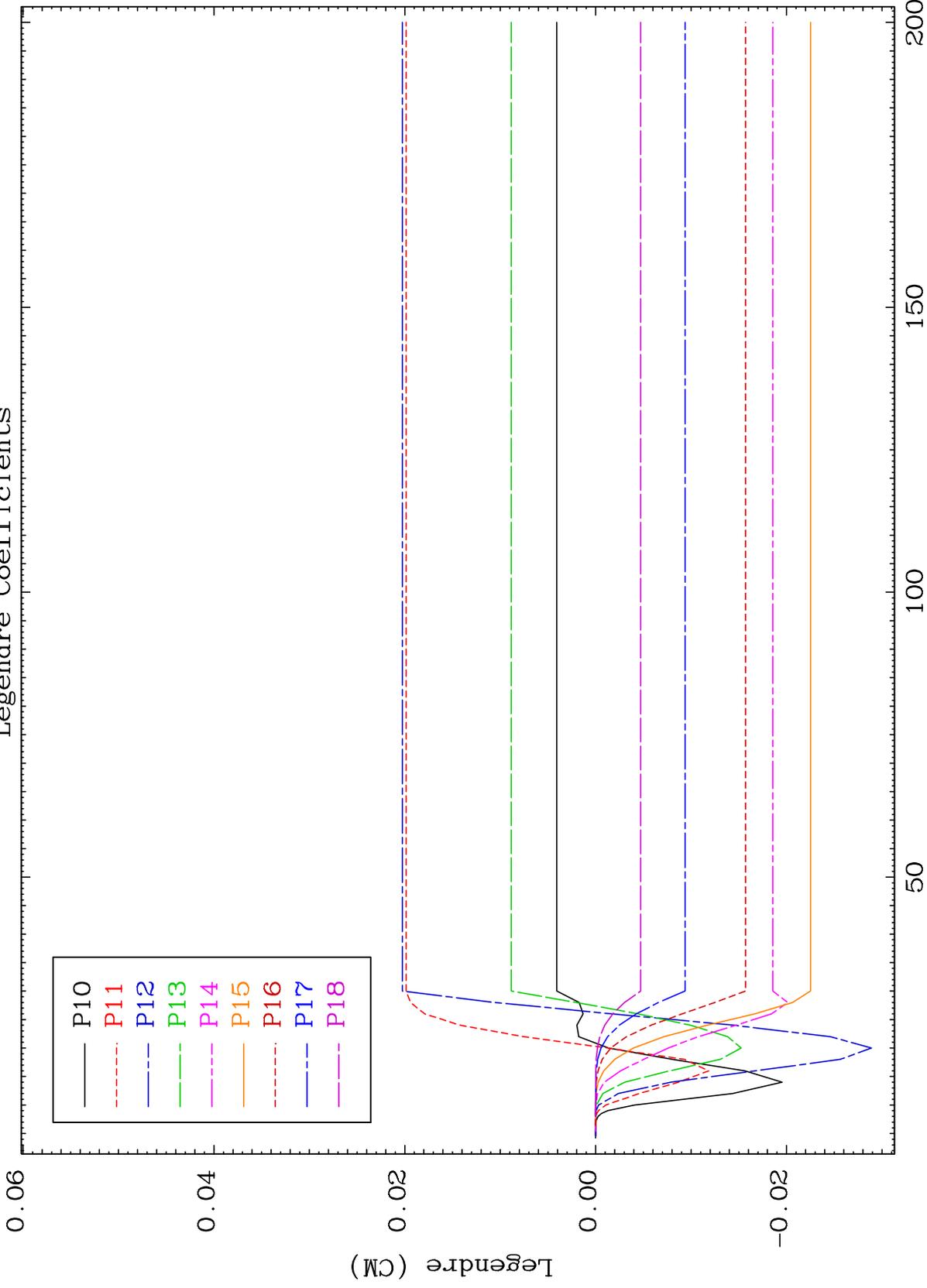


119

MAT 3258

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

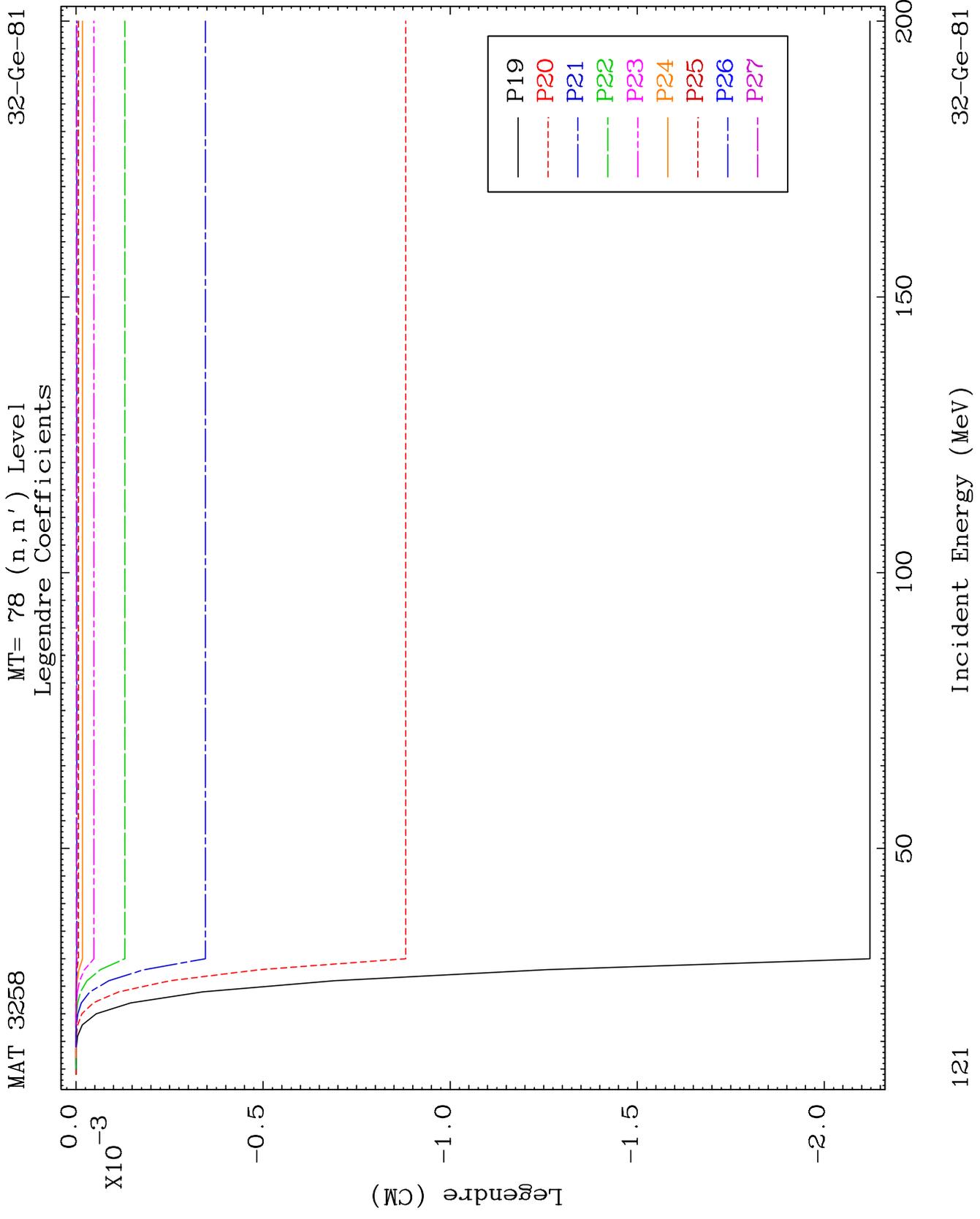
32-Ge-81

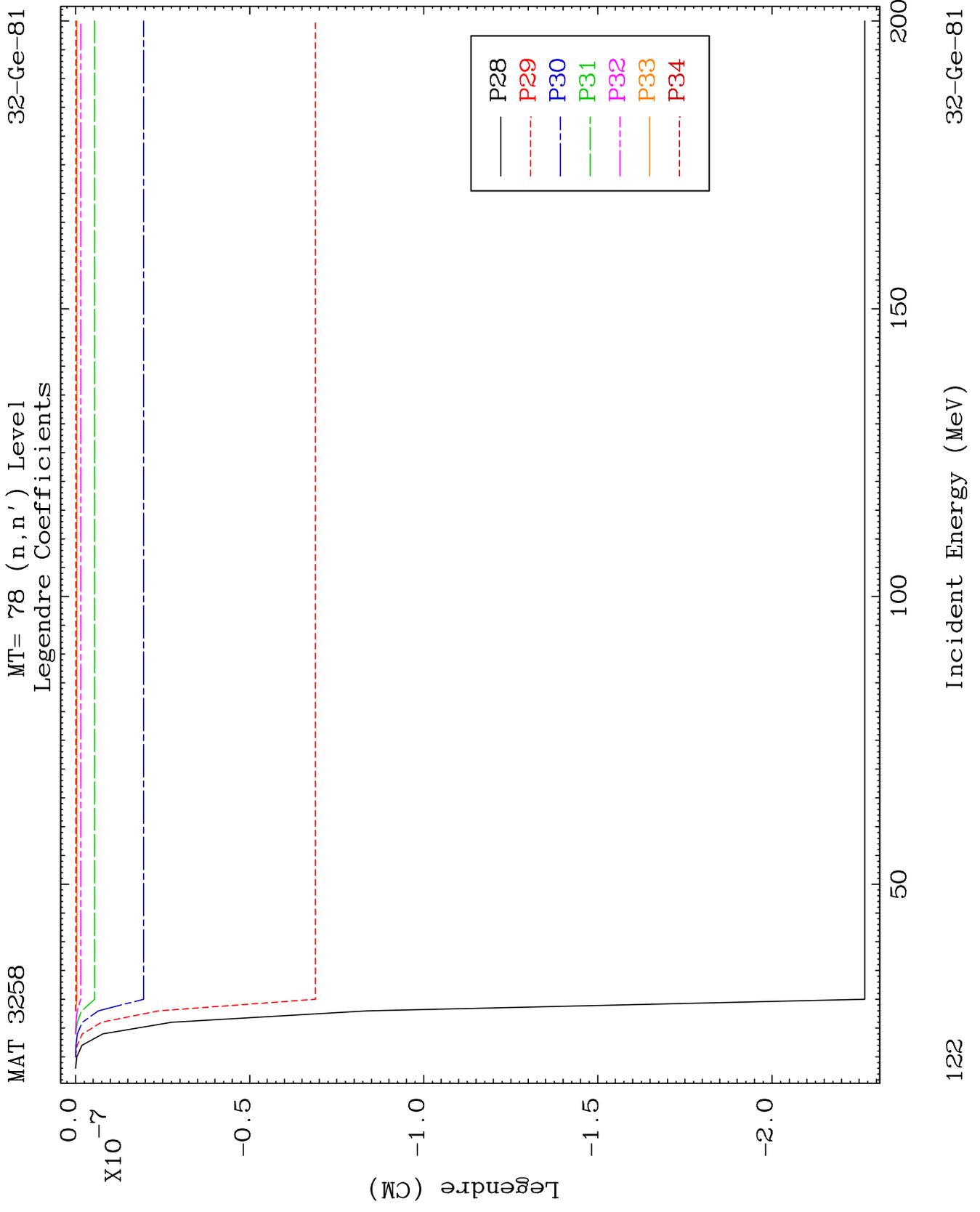


120

Incident Energy (MeV)

32-Ge-81

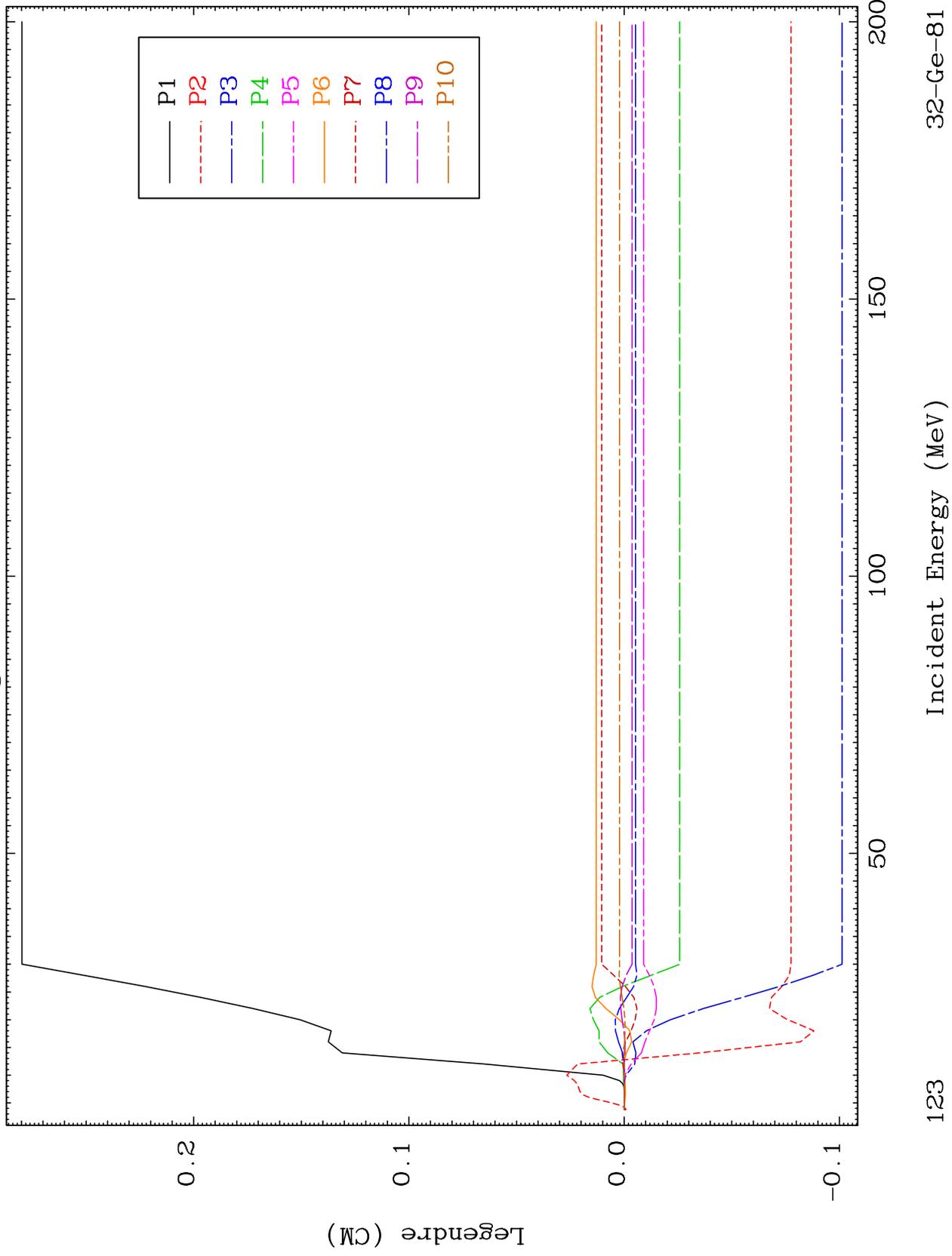




MAT 3258

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

32-Ge-81



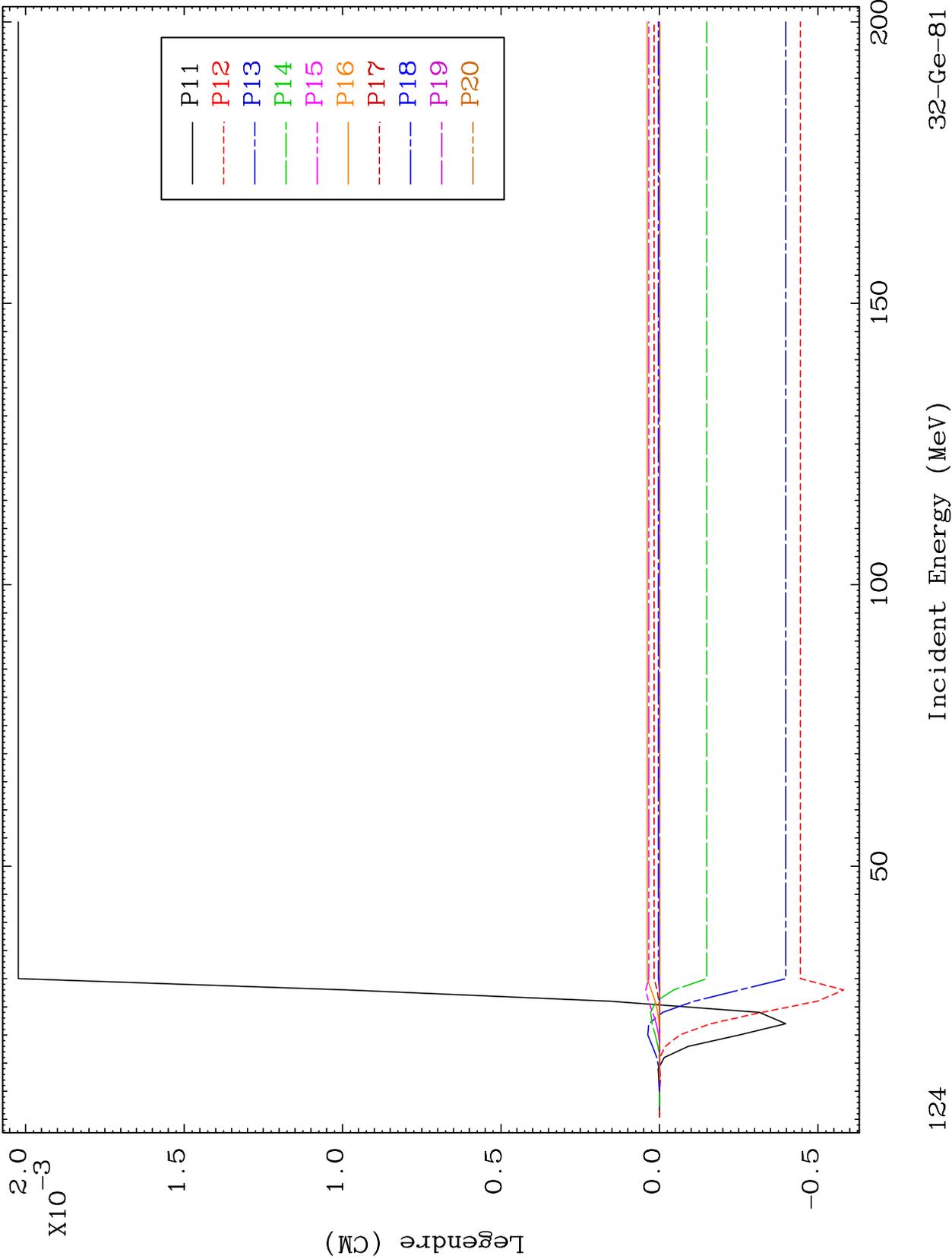
123

32-Ge-81

MAT 3258

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

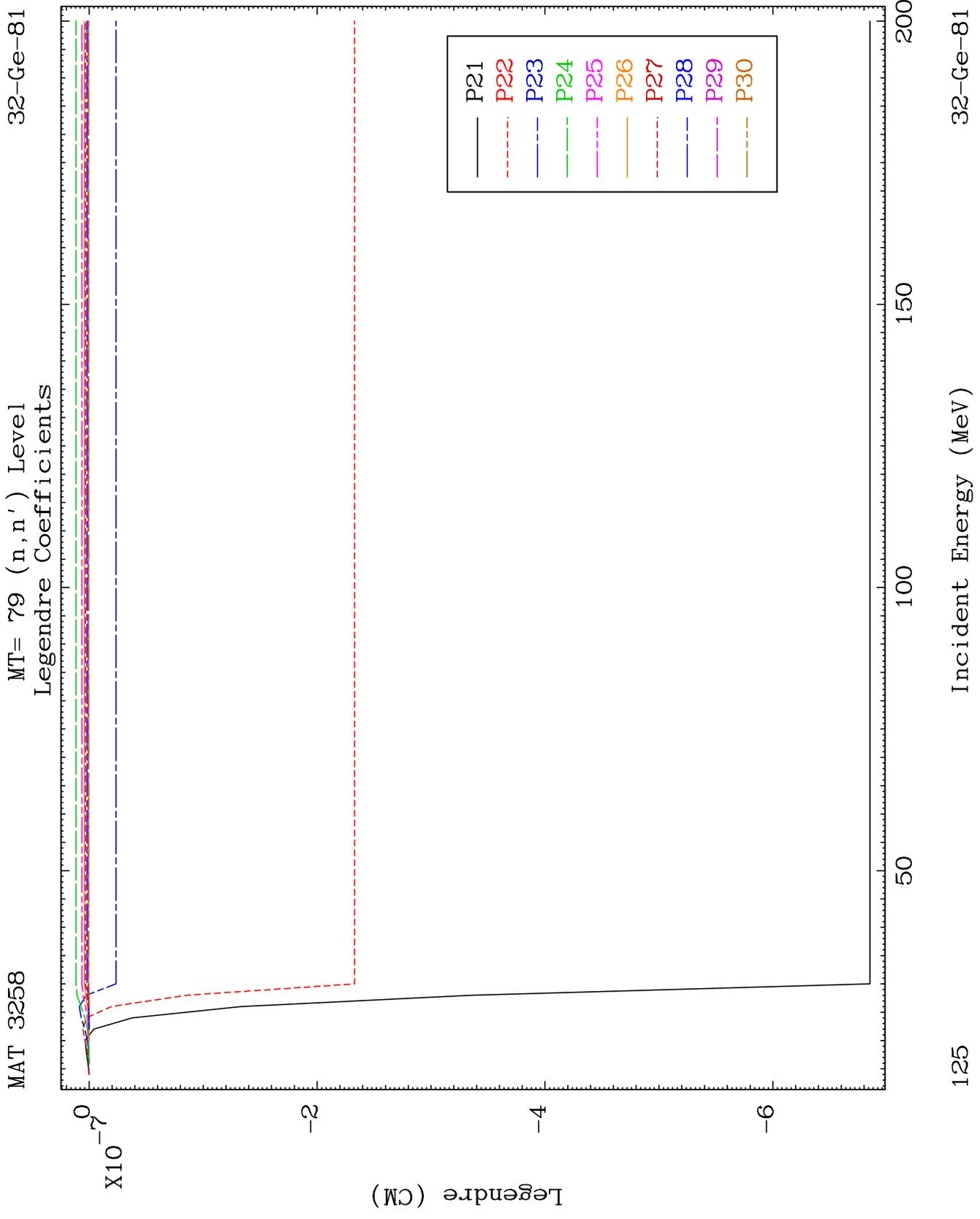
32-Ge-81



124

Incident Energy (MeV)

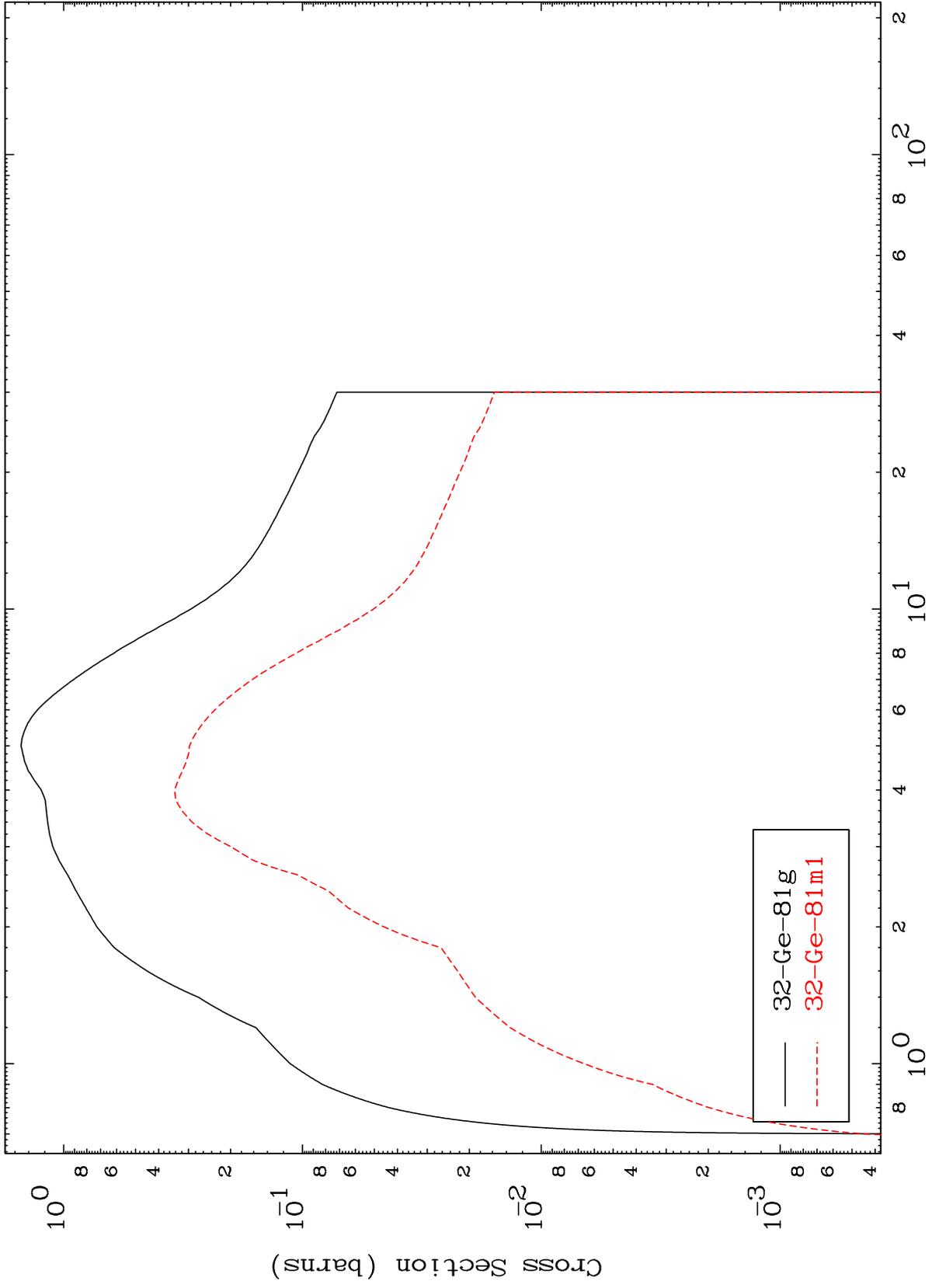
32-Ge-81



MAT 3258

<sup>32</sup>Ge-81

Inelastic  
Radionuclide Production Cross Section



126

Incident Energy (MeV)

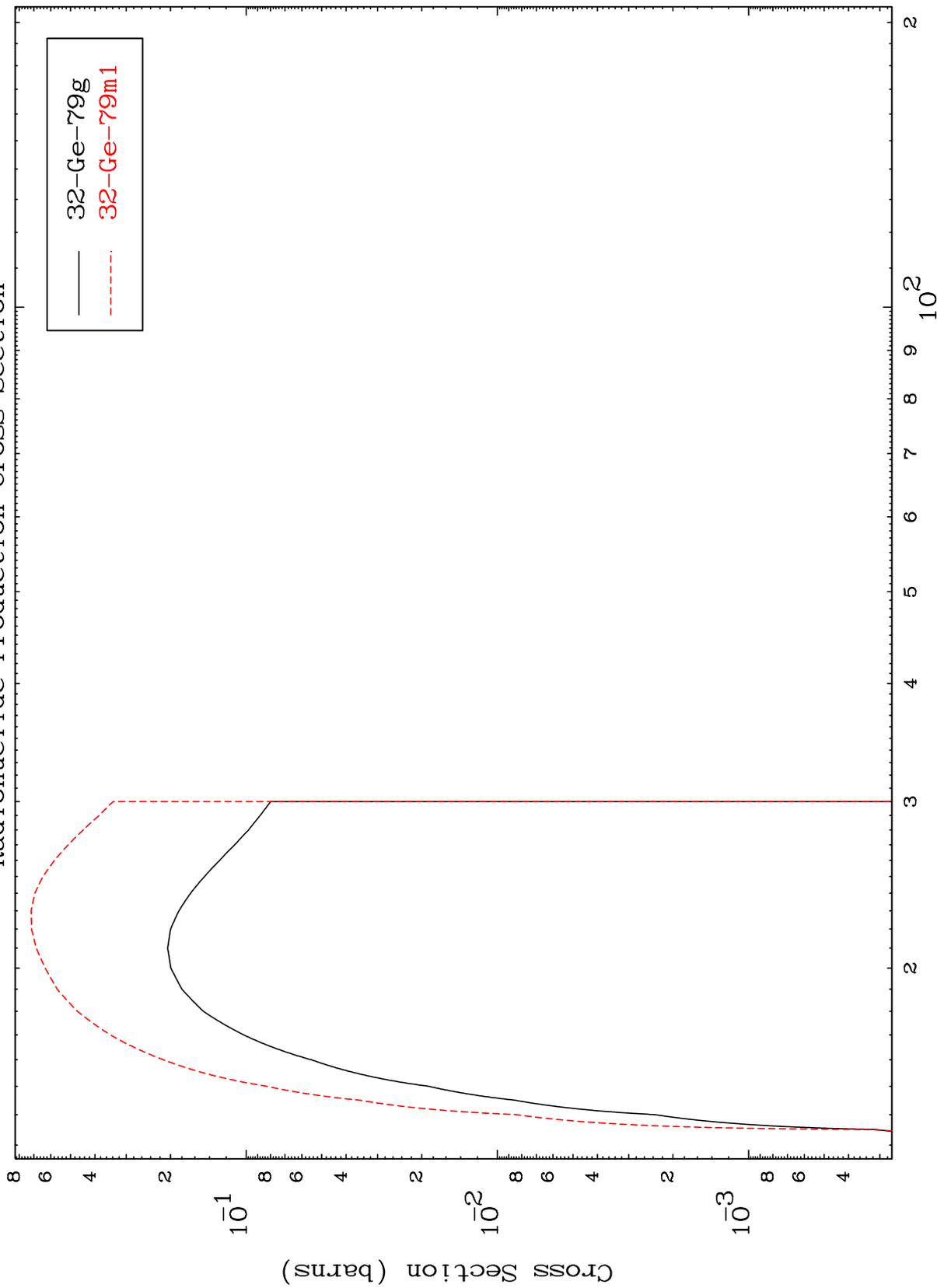
<sup>32</sup>Ge-81

MAT 3258

<sup>32</sup>Ge-81

(n,3n)

Radionuclide Production Cross Section



— <sup>32</sup>Ge-79g  
- - - <sup>32</sup>Ge-79m1

127

Incident Energy (MeV)

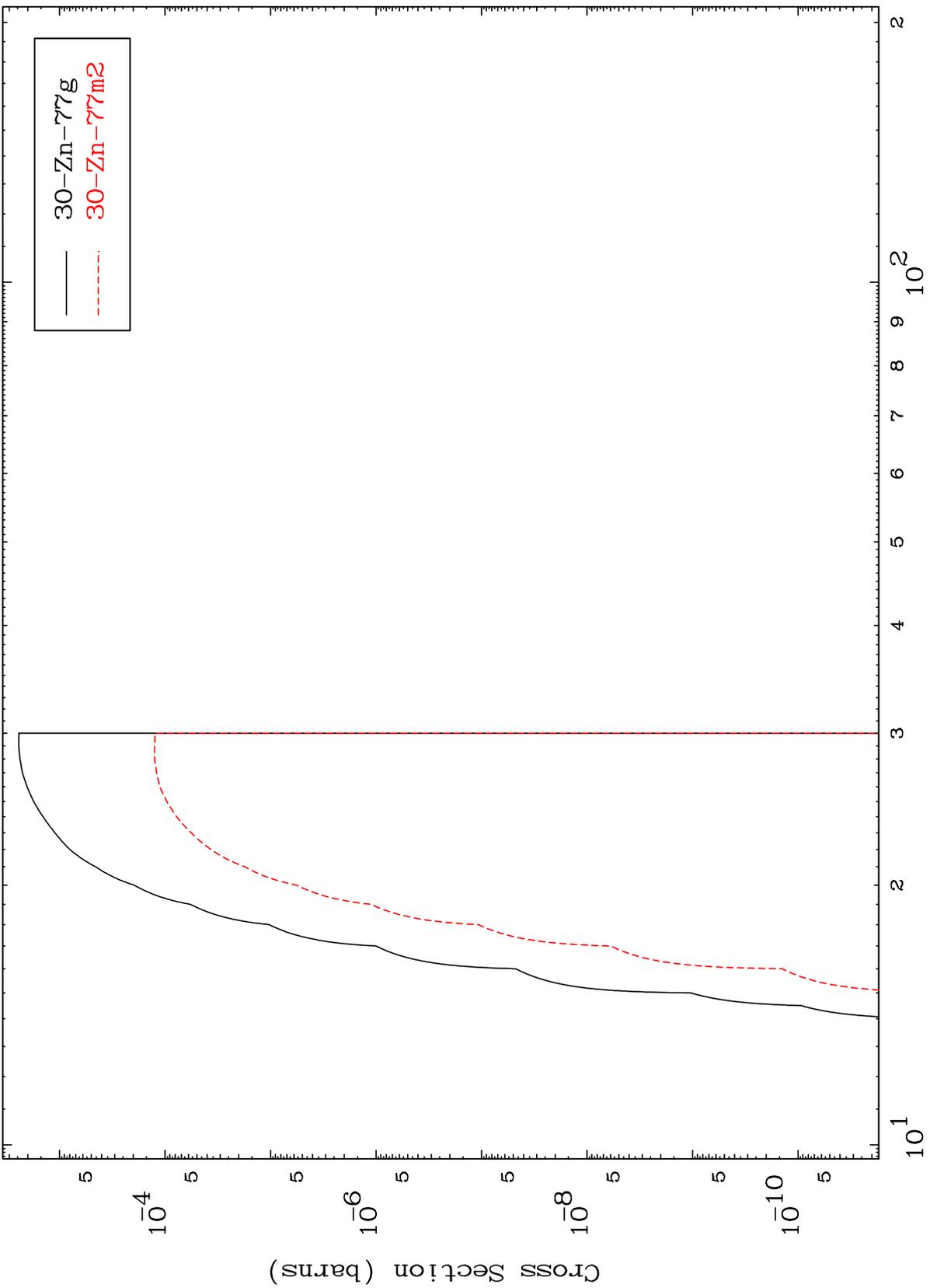
<sup>32</sup>Ge-81

MAT 3258

$(n, n')$   $\alpha$

32-Ge-81

Radionuclide Production Cross Section



128

Incident Energy (MeV)

32-Ge-81