

Program EVALPLOT  
(Version 2015-2)

by

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(Present Contact Information)

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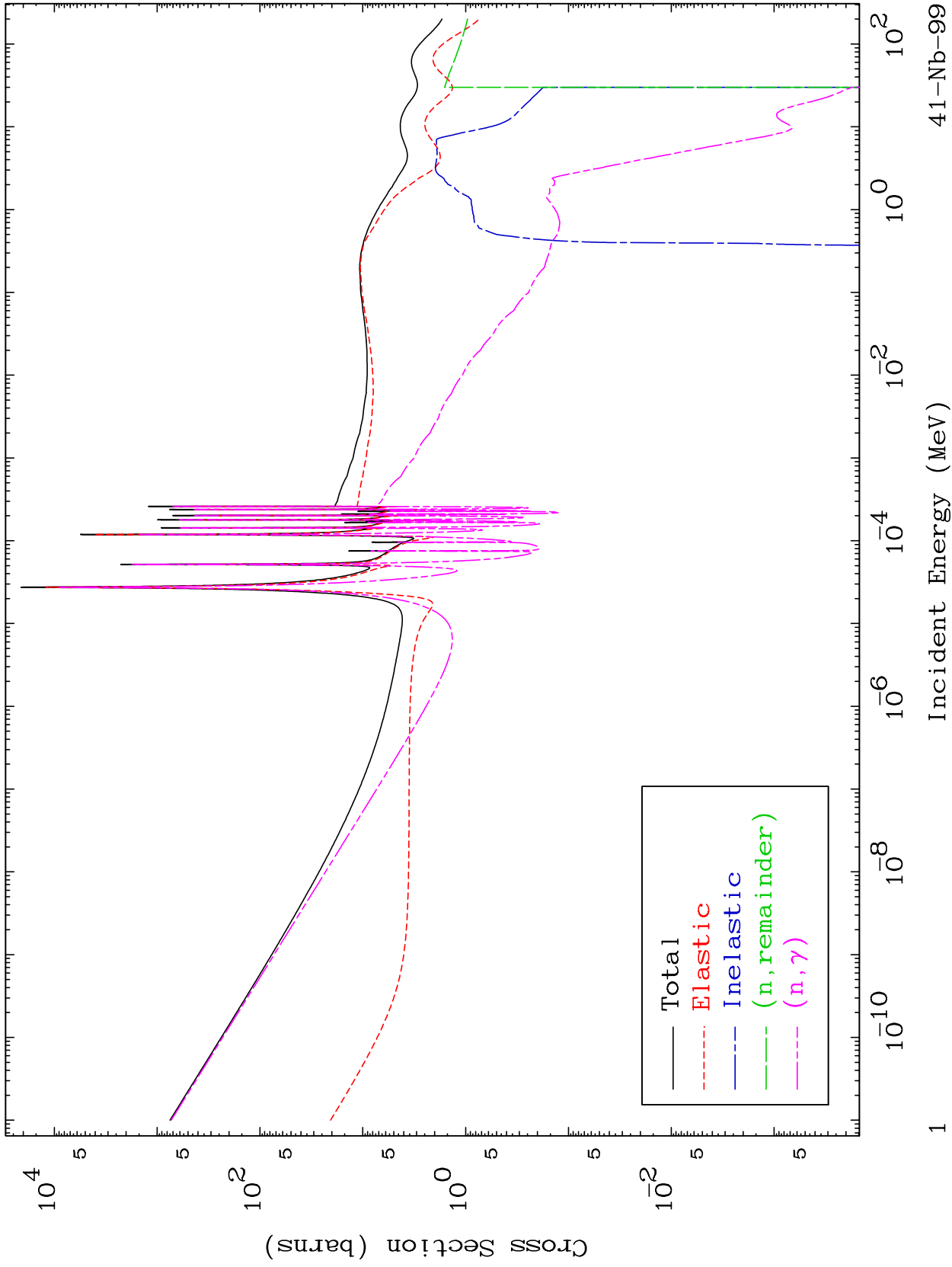
E.Mail:redcullen1@comcast.net  
Web:home.comcast.net/~redcullen1

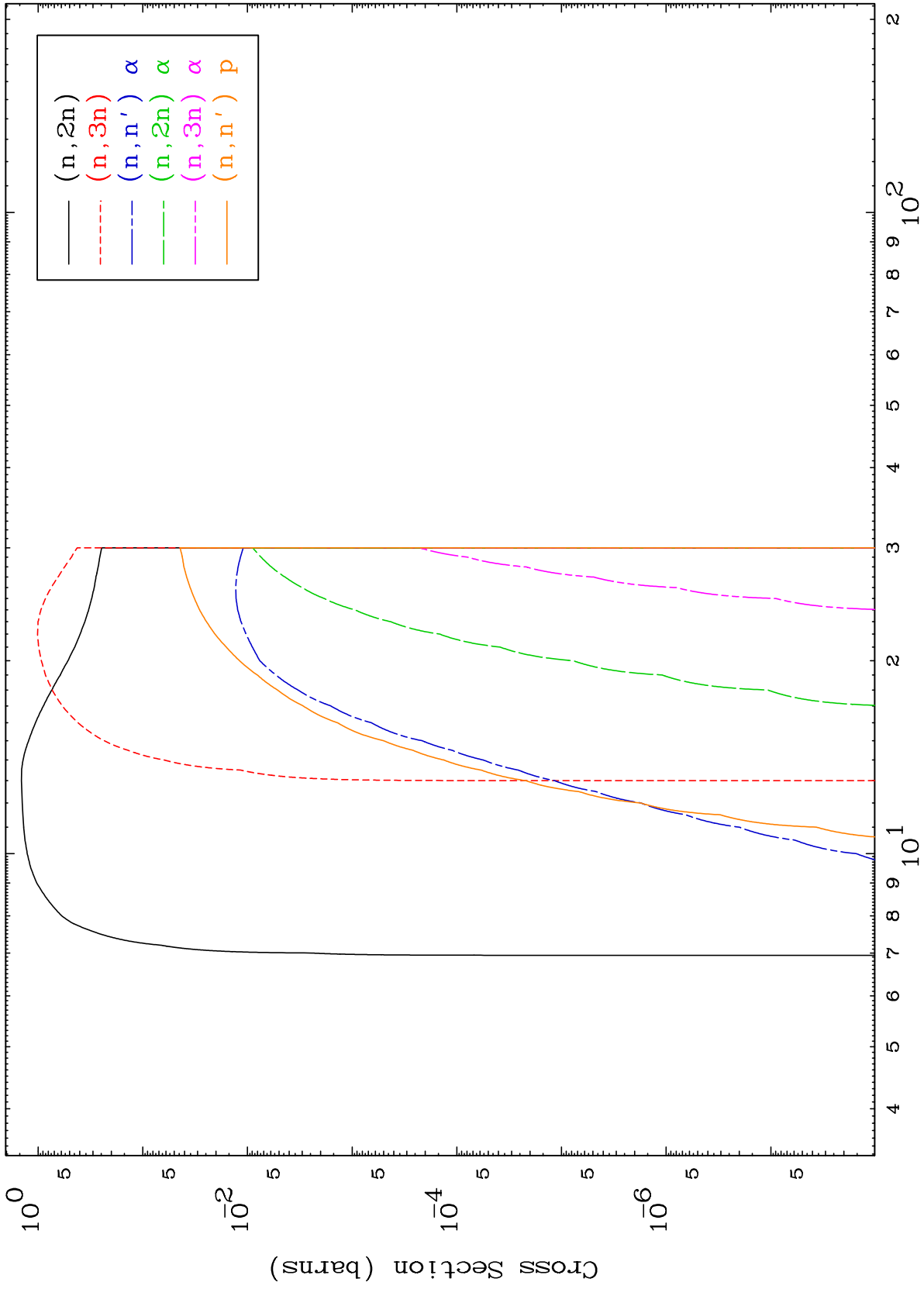
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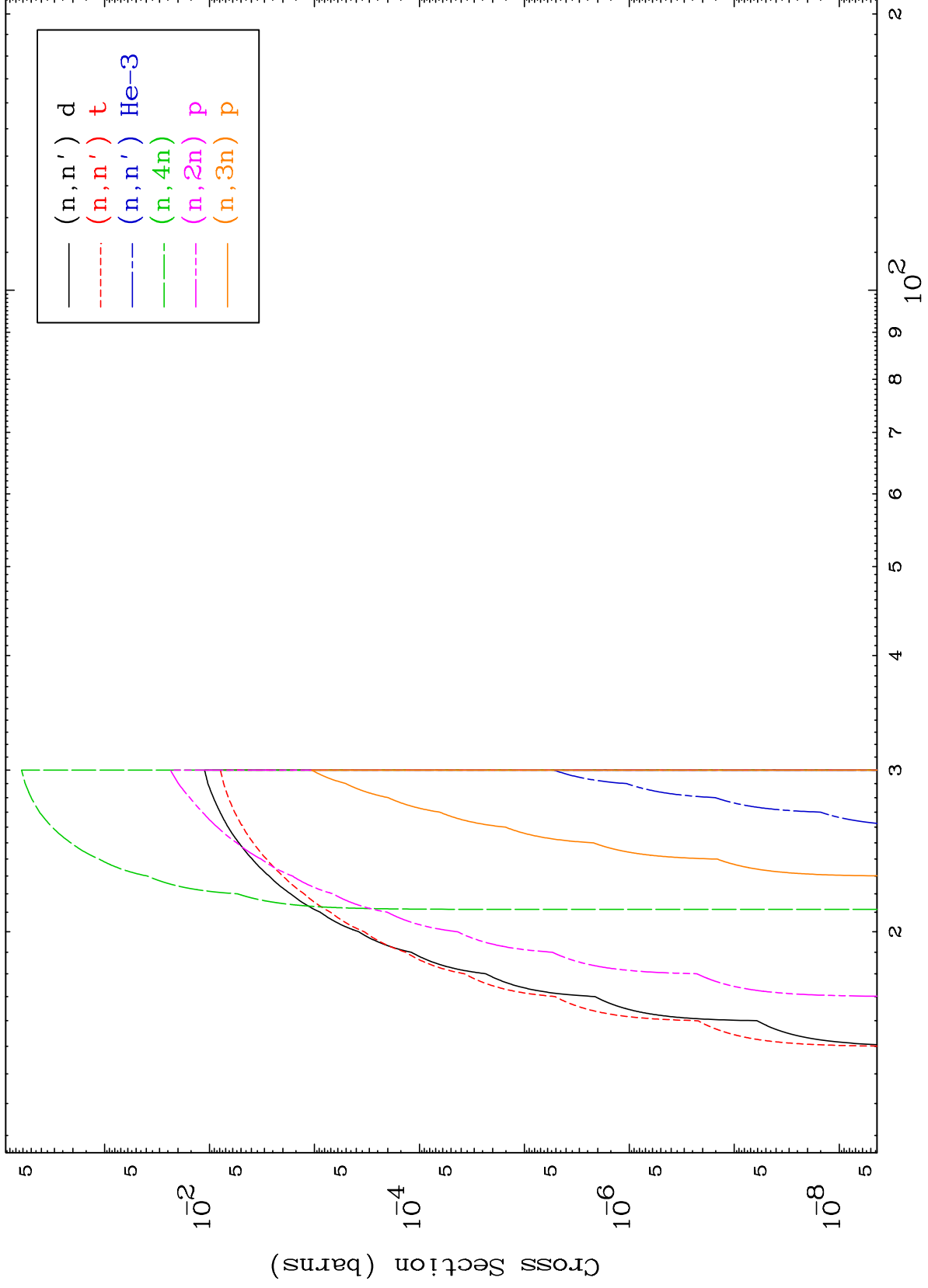
MAT 4143

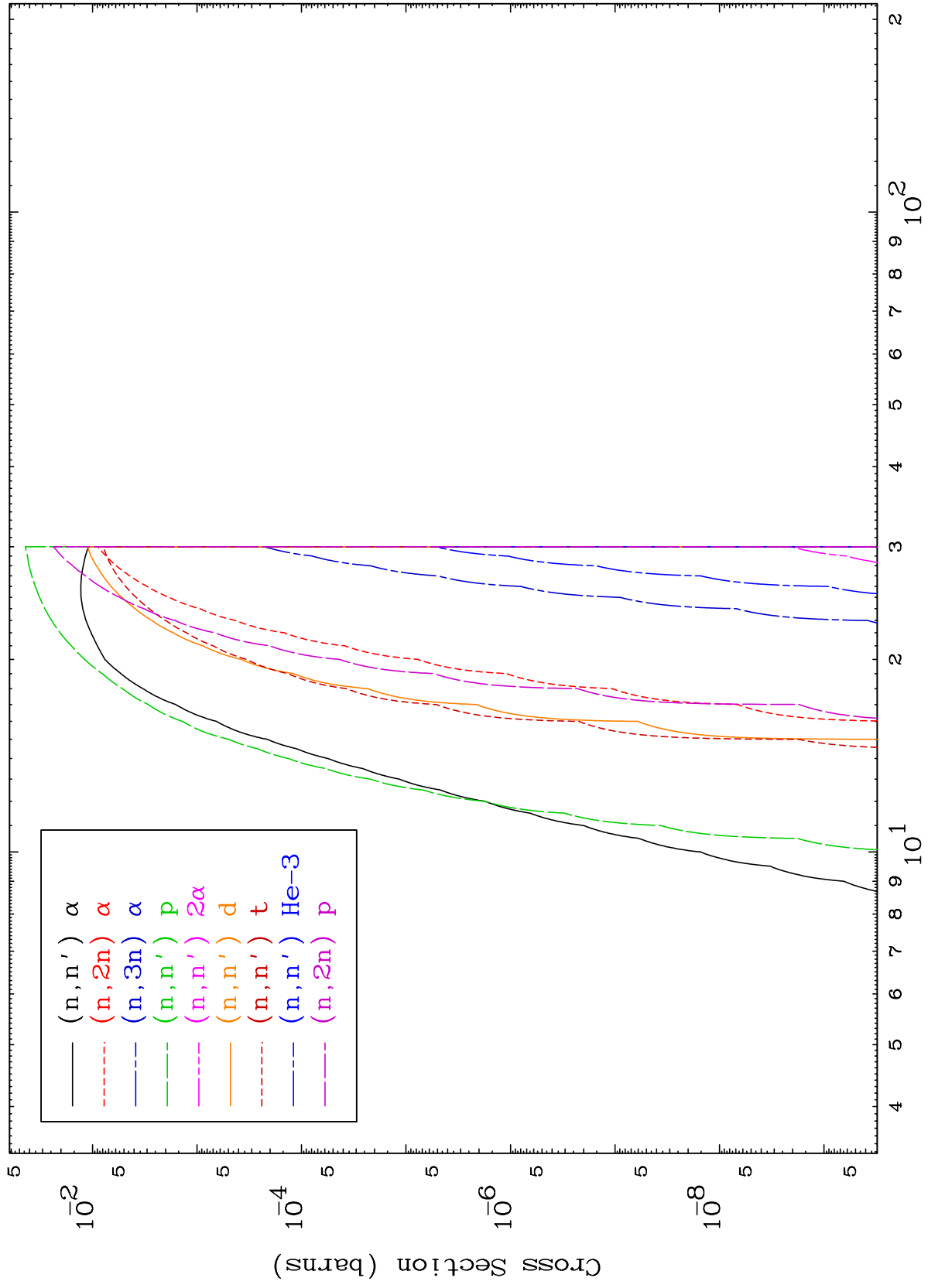
Major  
293 Kelvin Cross Sections

41-Nb-99





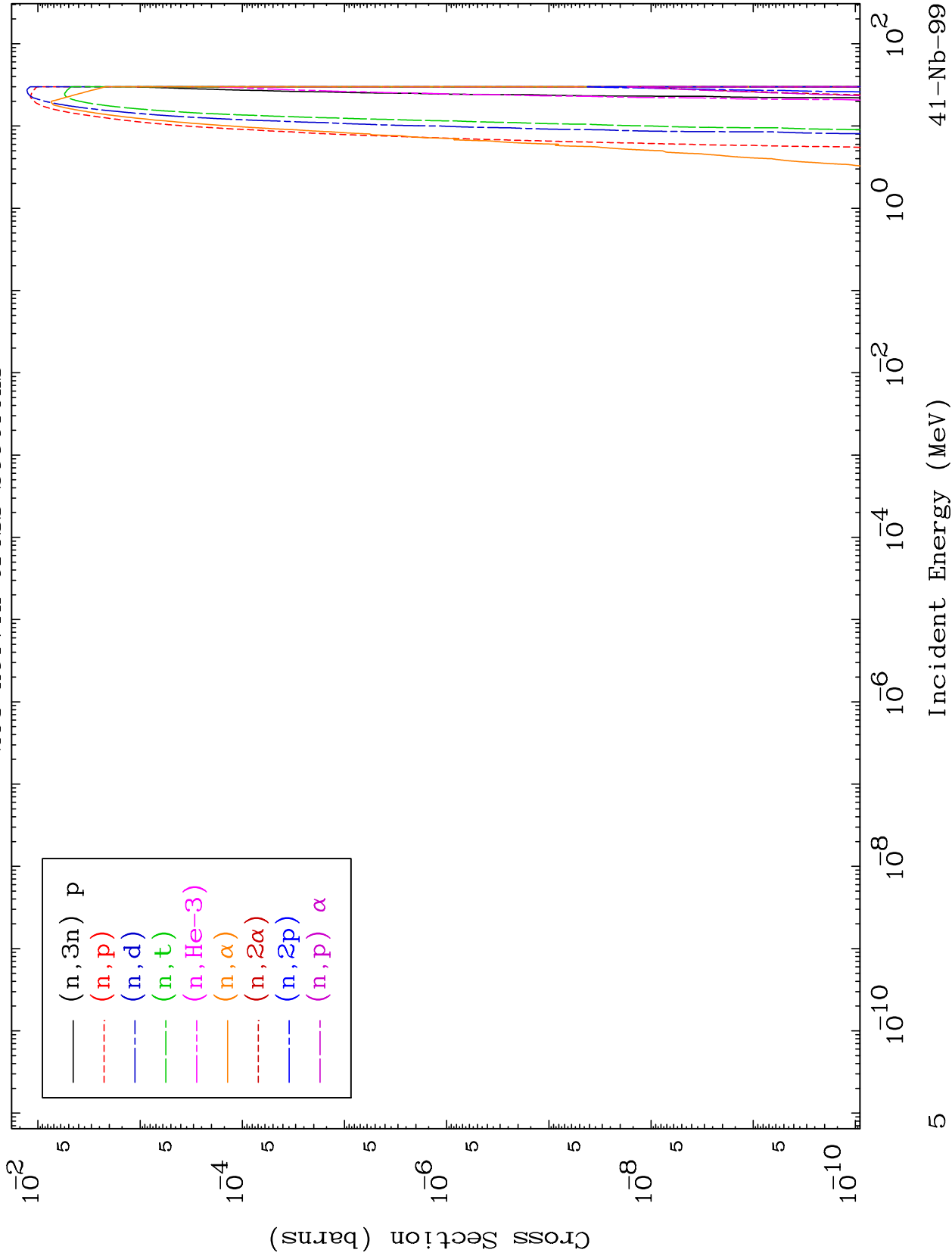




MAT 4143

Charged Particle  
293 Kelvin Cross Sections

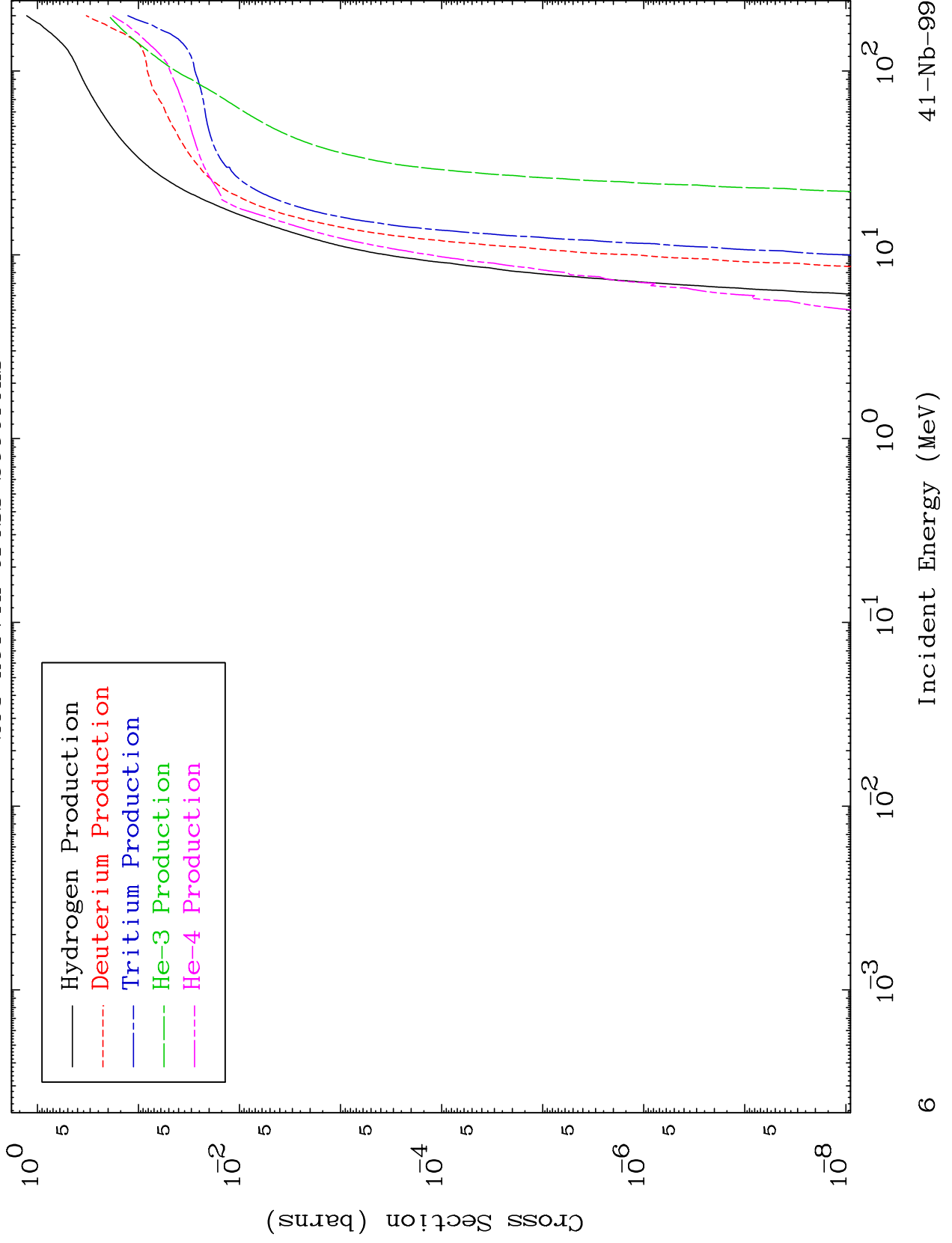
41-Nb-99



MAT 4143

Particle Production  
293 Kelvin Cross Sections

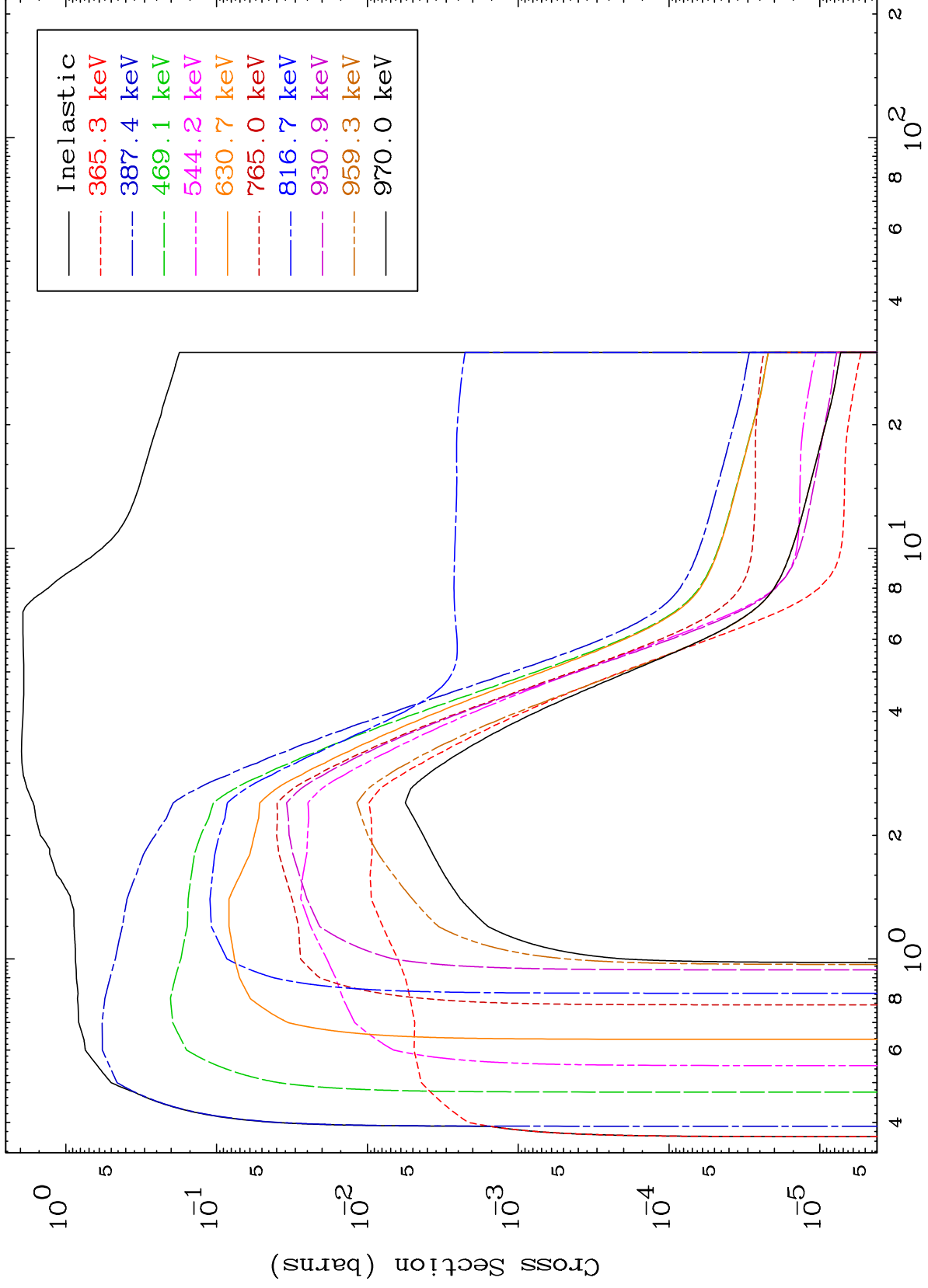
41-Nb-99



MAT 4143

(n,n') Level  
293 Kelvin Cross Sections

41-Nb-99



7

Incident Energy (MeV)

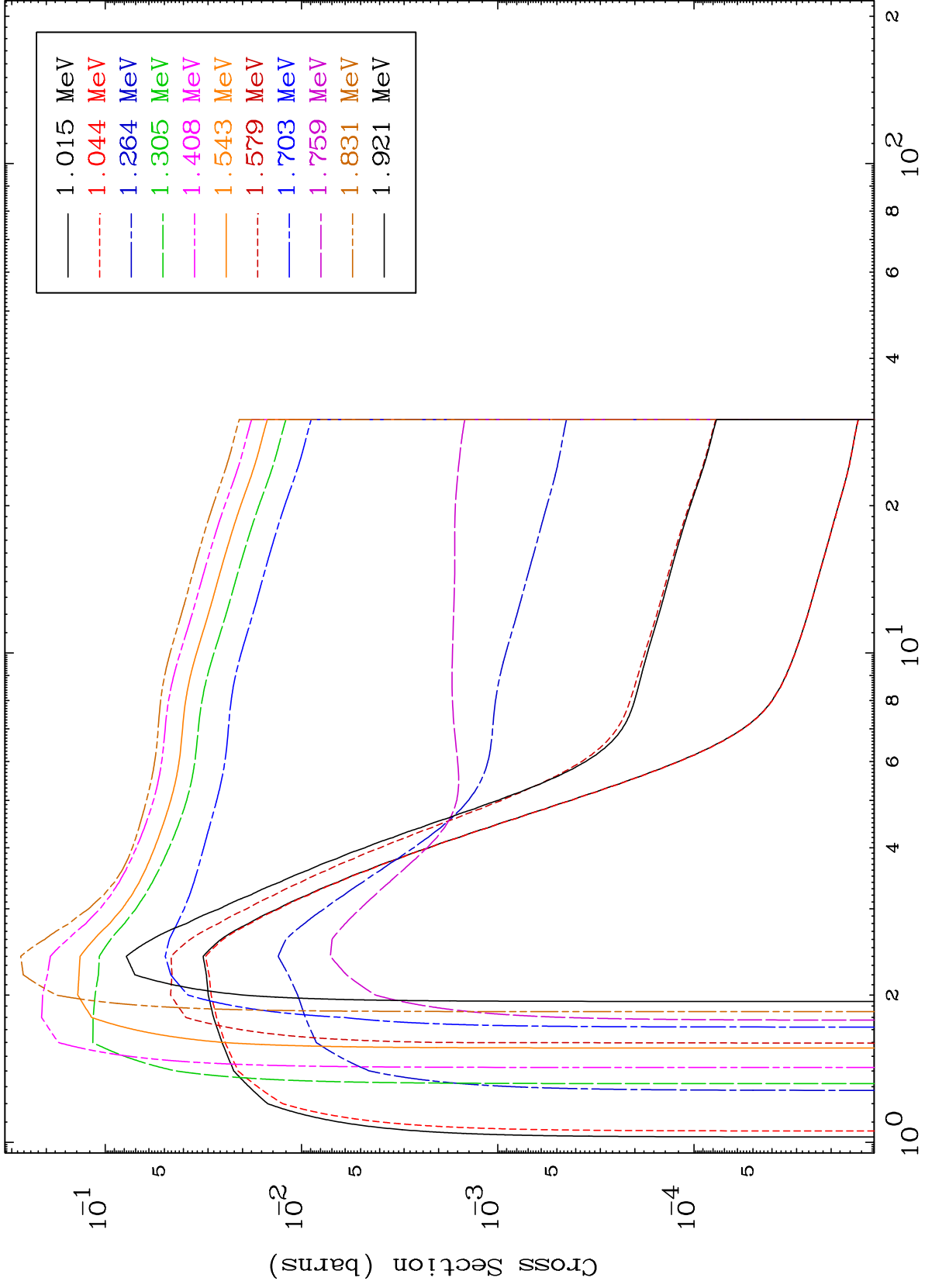
41-Nb-99



MAT 4143

(n,n') Level  
293 Kelvin Cross Sections

41-Nb-99



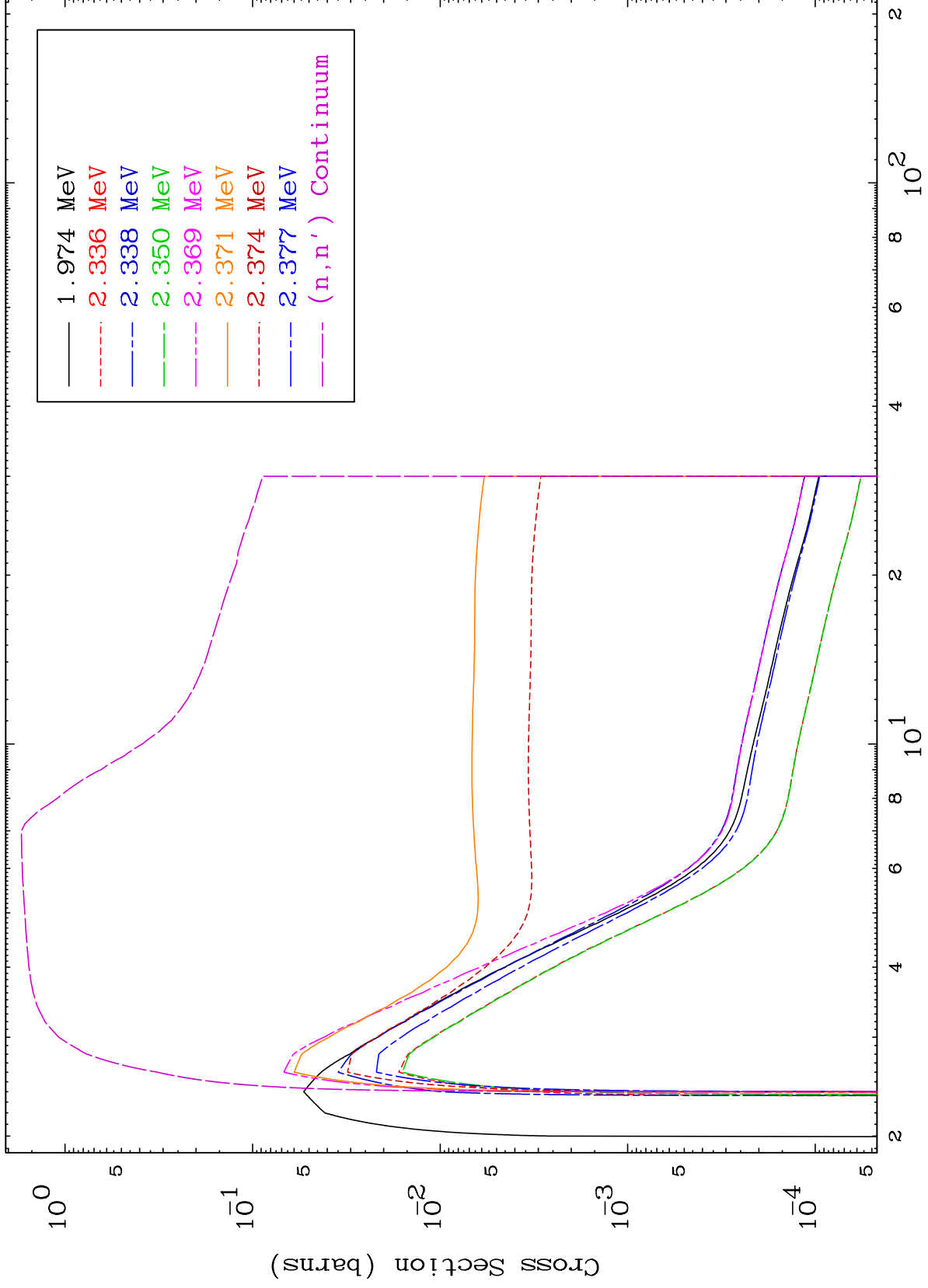
Incident Energy (MeV)

41-Nb-99

MAT 4143

(n,n') Level  
293 Kelvin Cross Sections

41-Nb-99



9

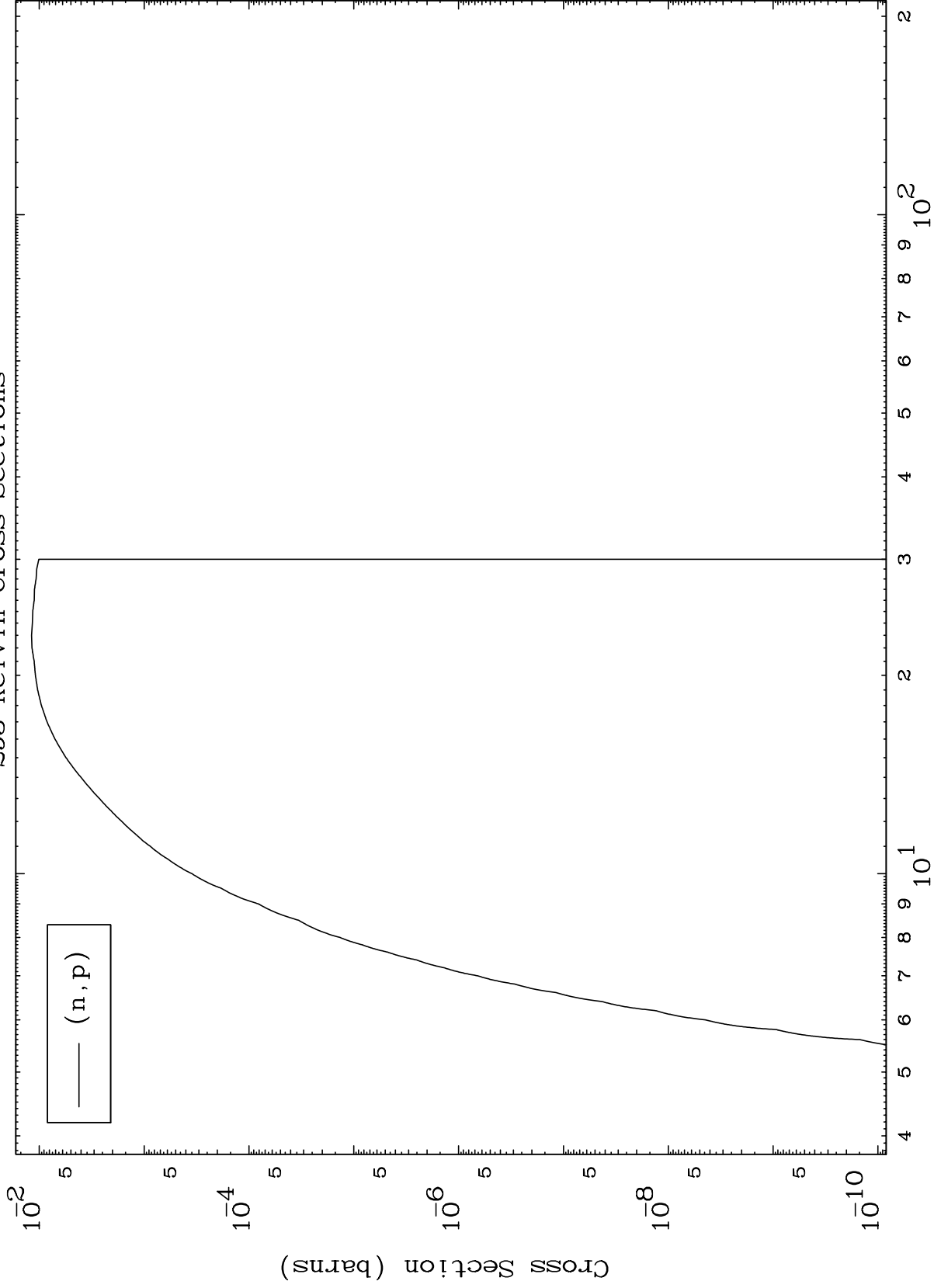
Incident Energy (MeV)

41-Nb-99

MAT 4143

(n,p) Levels  
293 Kelvin Cross Sections

41-Nb-99



10

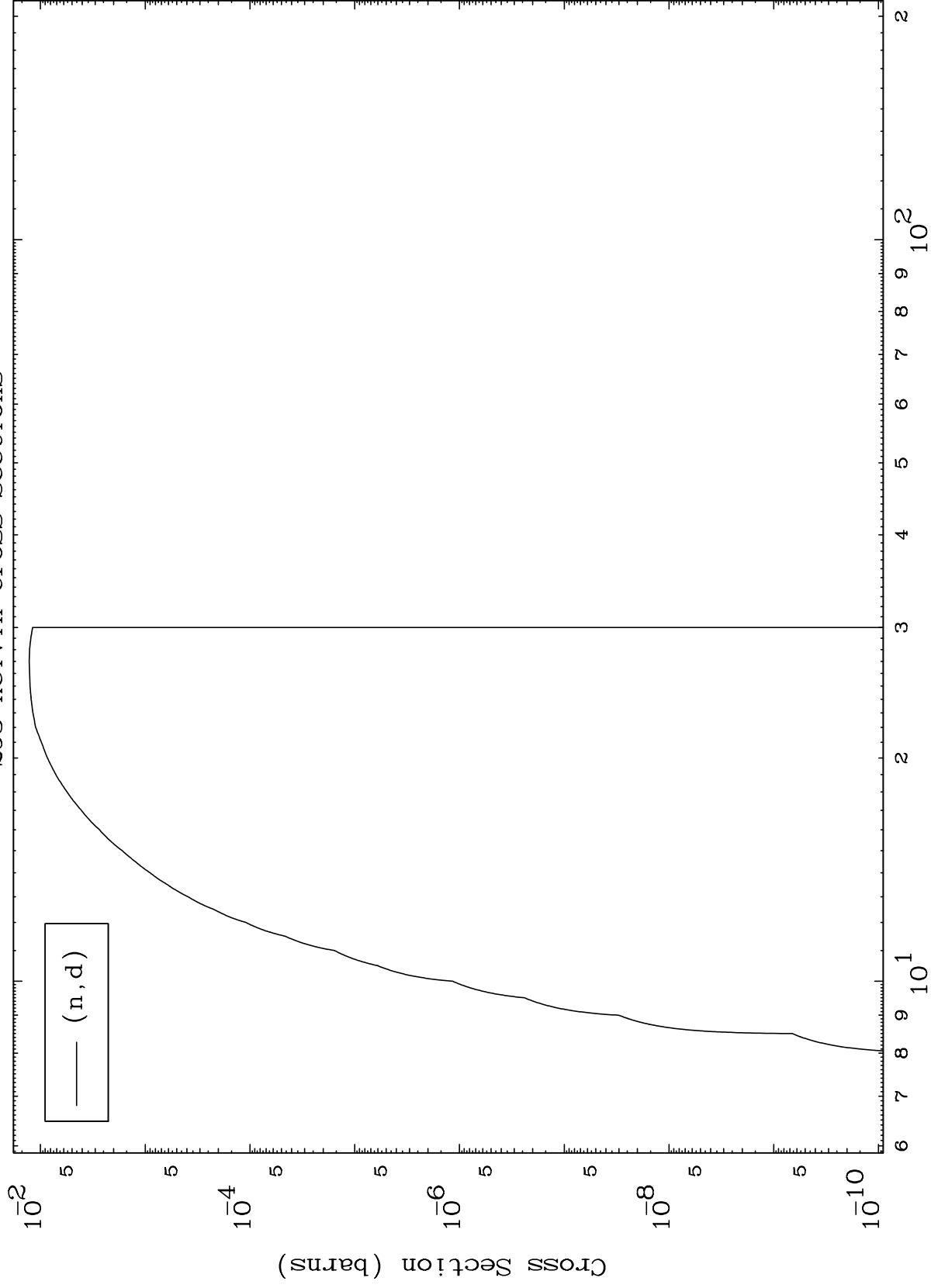
Incident Energy (MeV)

41-Nb-99

MAT 4143

(n,d) Levels  
293 Kelvin Cross Sections

41-Nb-99



11

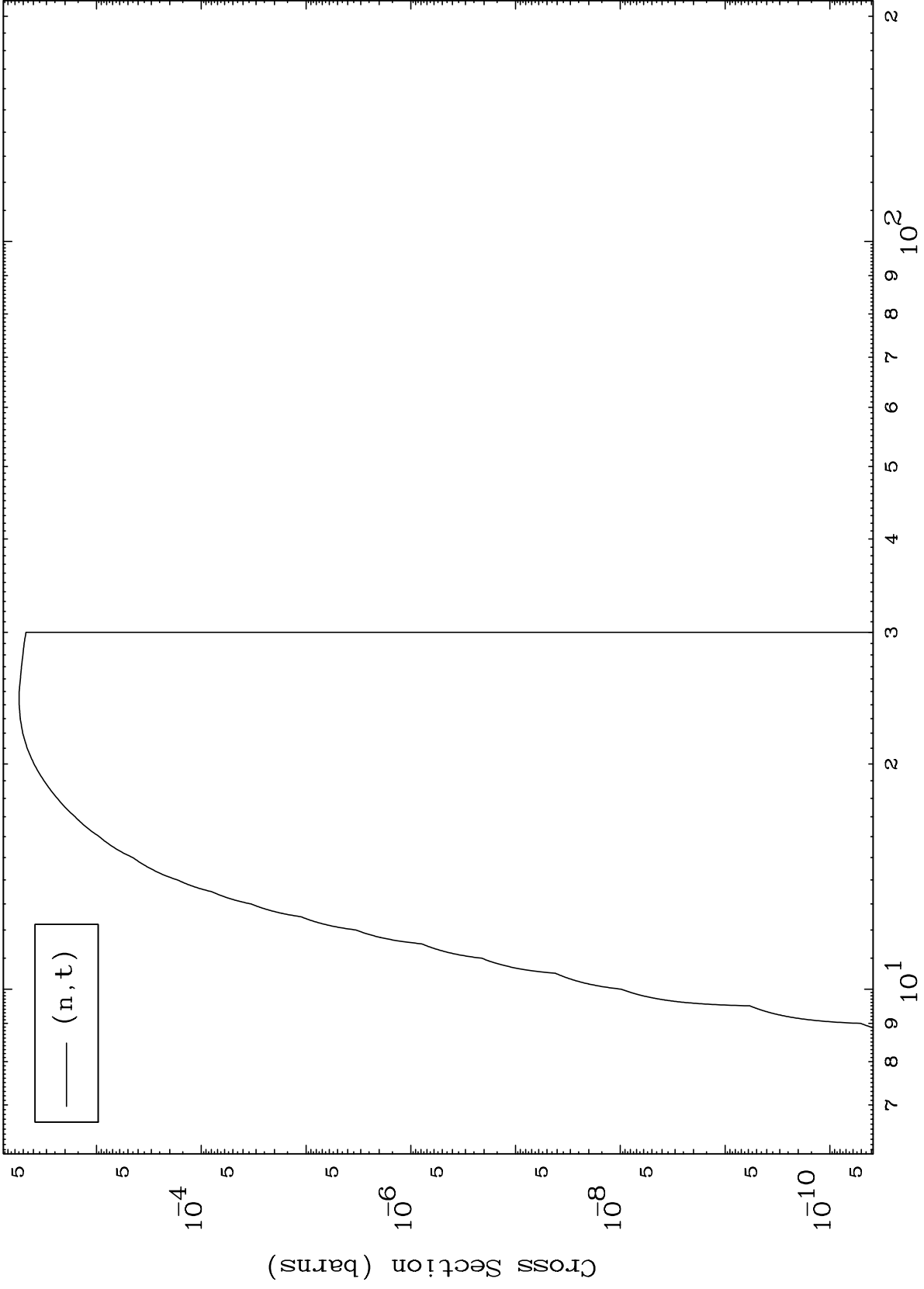
Incident Energy (MeV)

41-Nb-99

MAT 4143

(n, t) Levels  
293 Kelvin Cross Sections

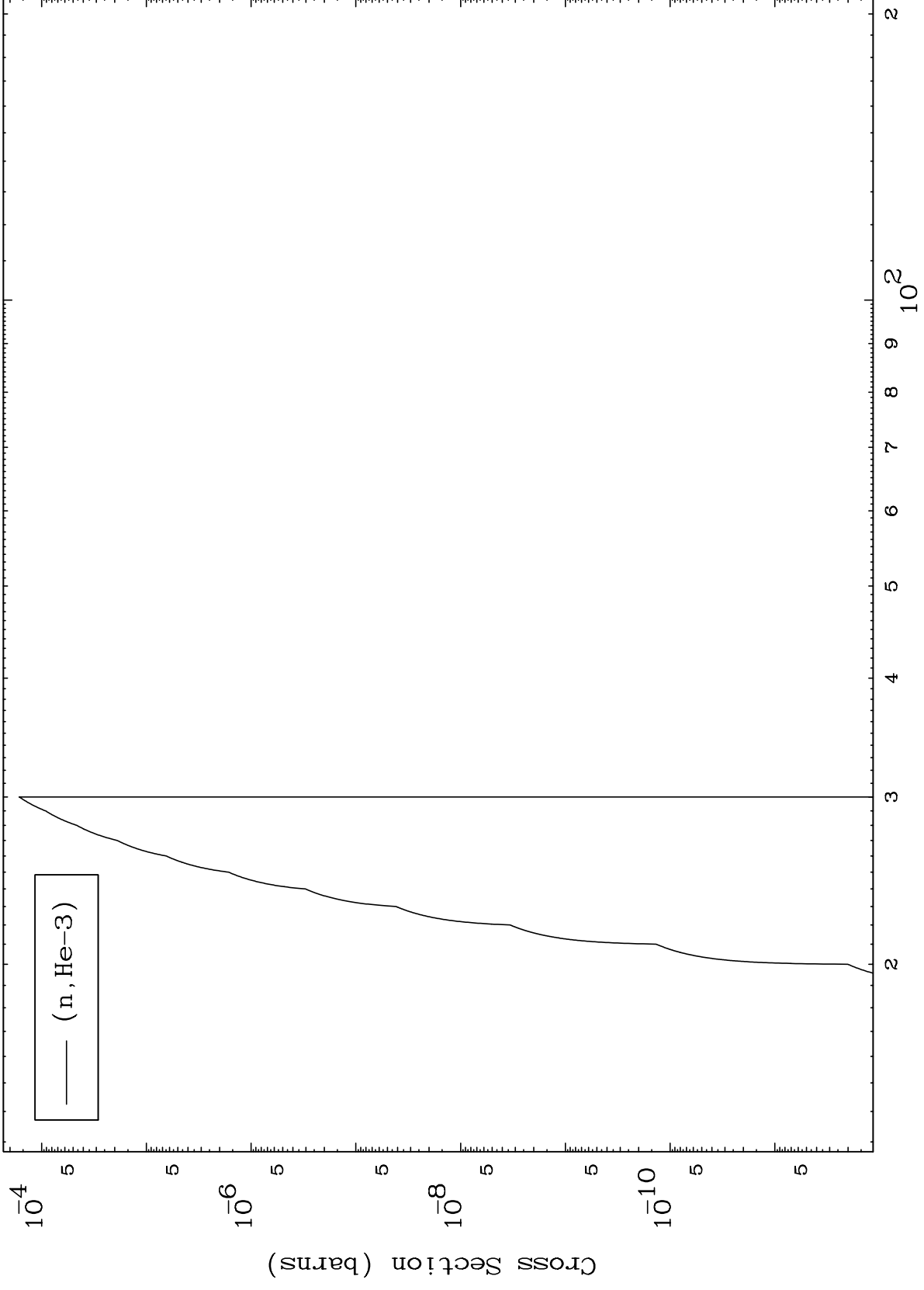
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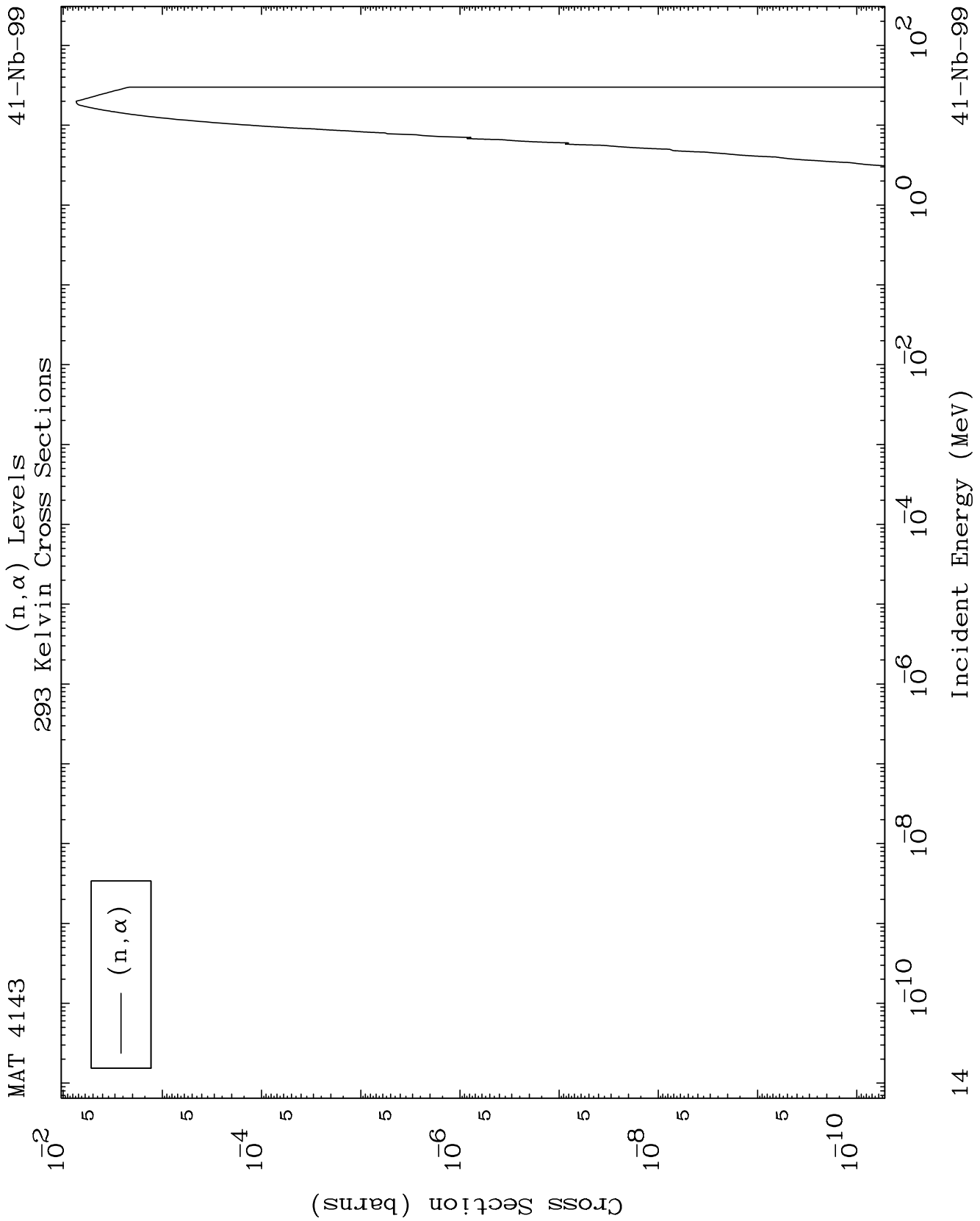


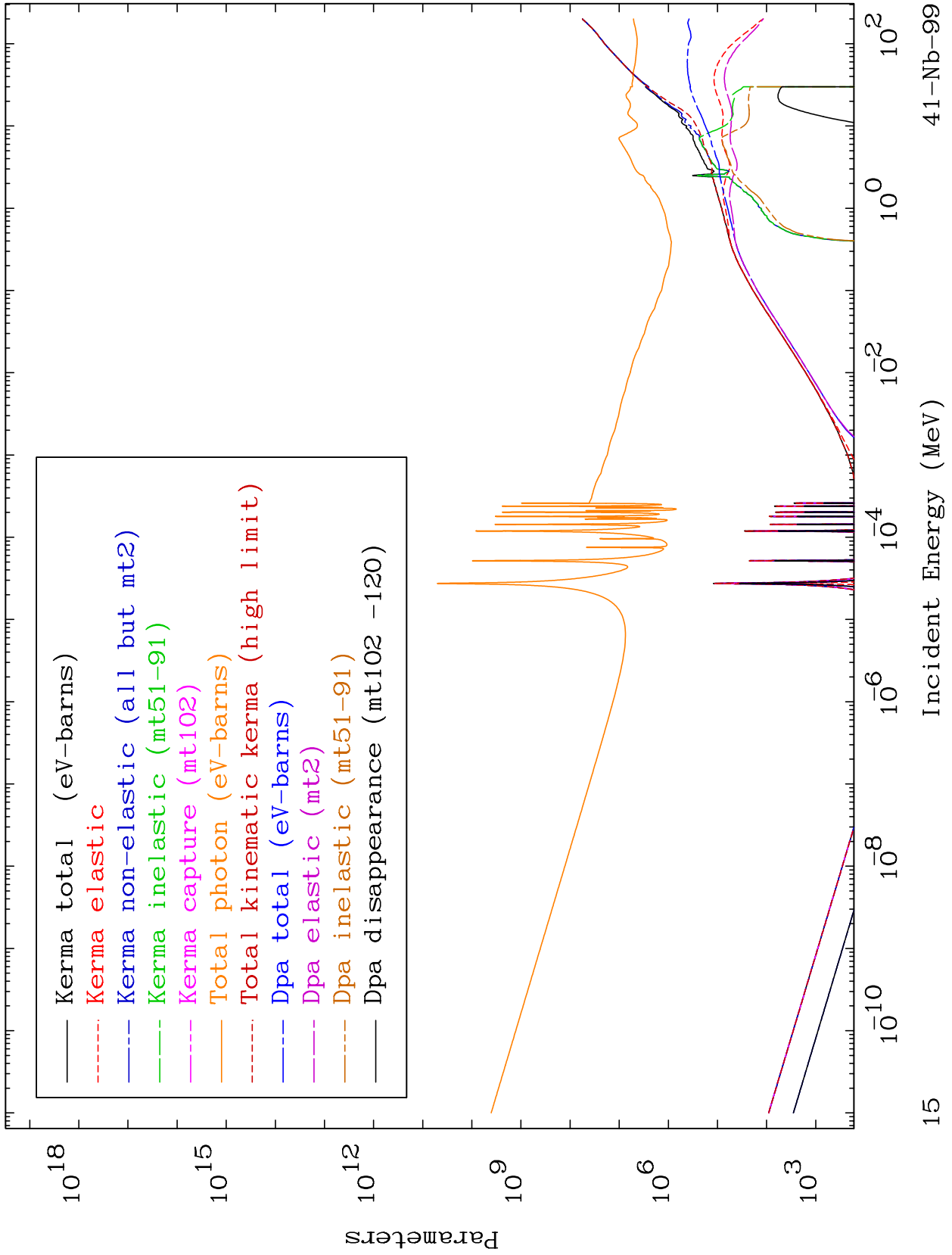
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Incident Energy (MeV)

41-Nb-99





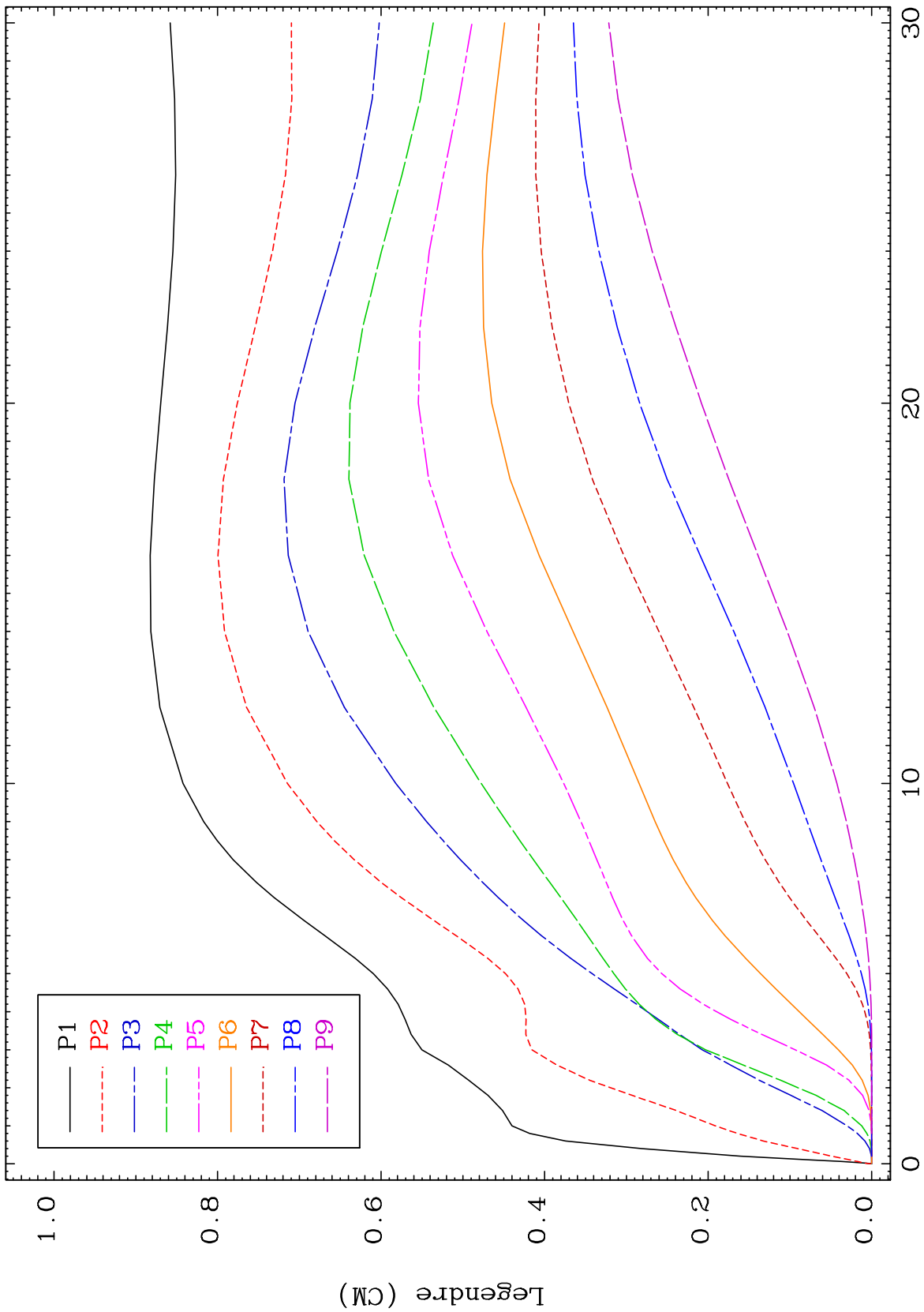




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Elastic Legendre Coefficients

41-Nb-99



16

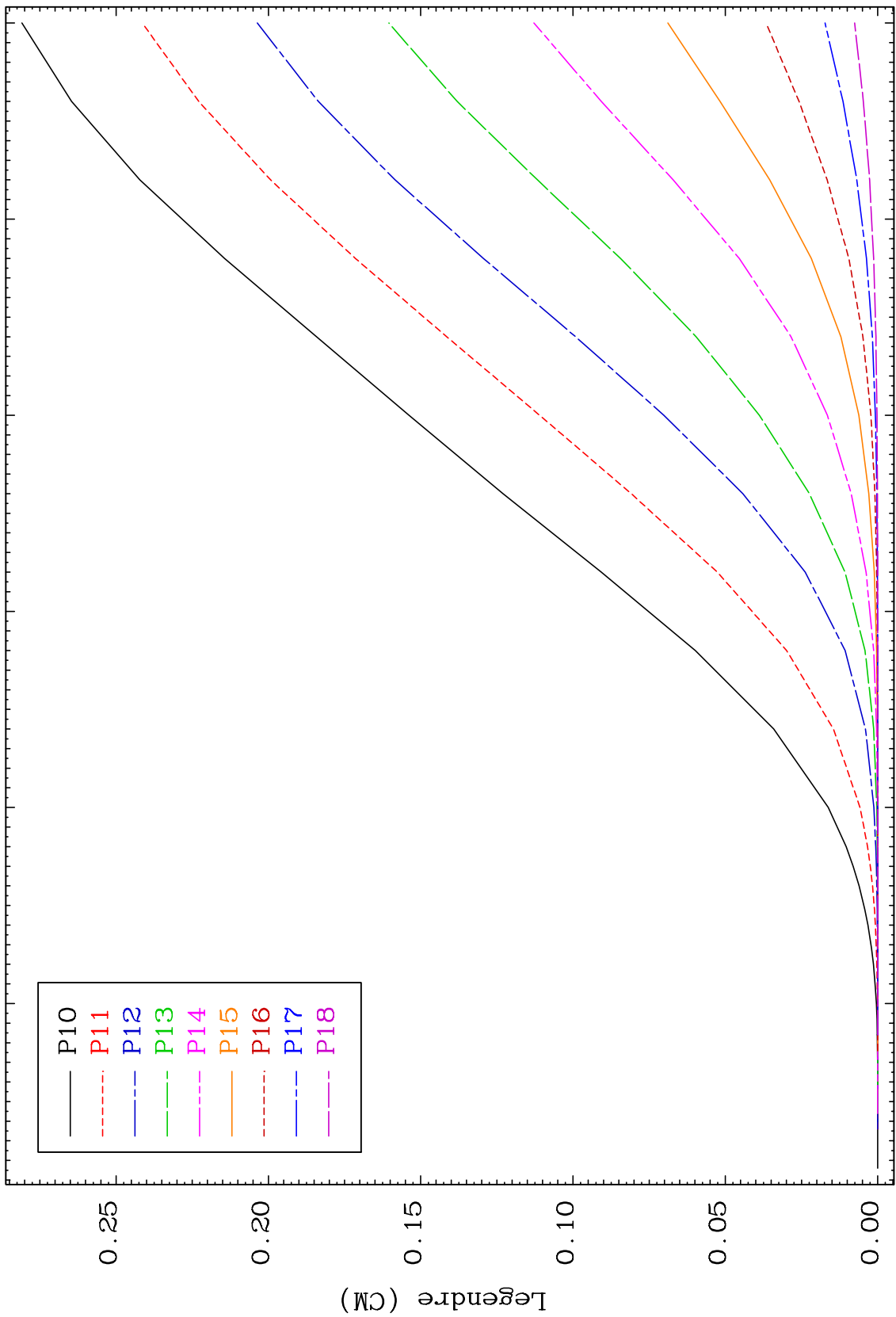
Incident Energy (MeV)

41-Nb-99

MAT 4143

### Elastic Legendre Coefficients

41-Nb-99



17

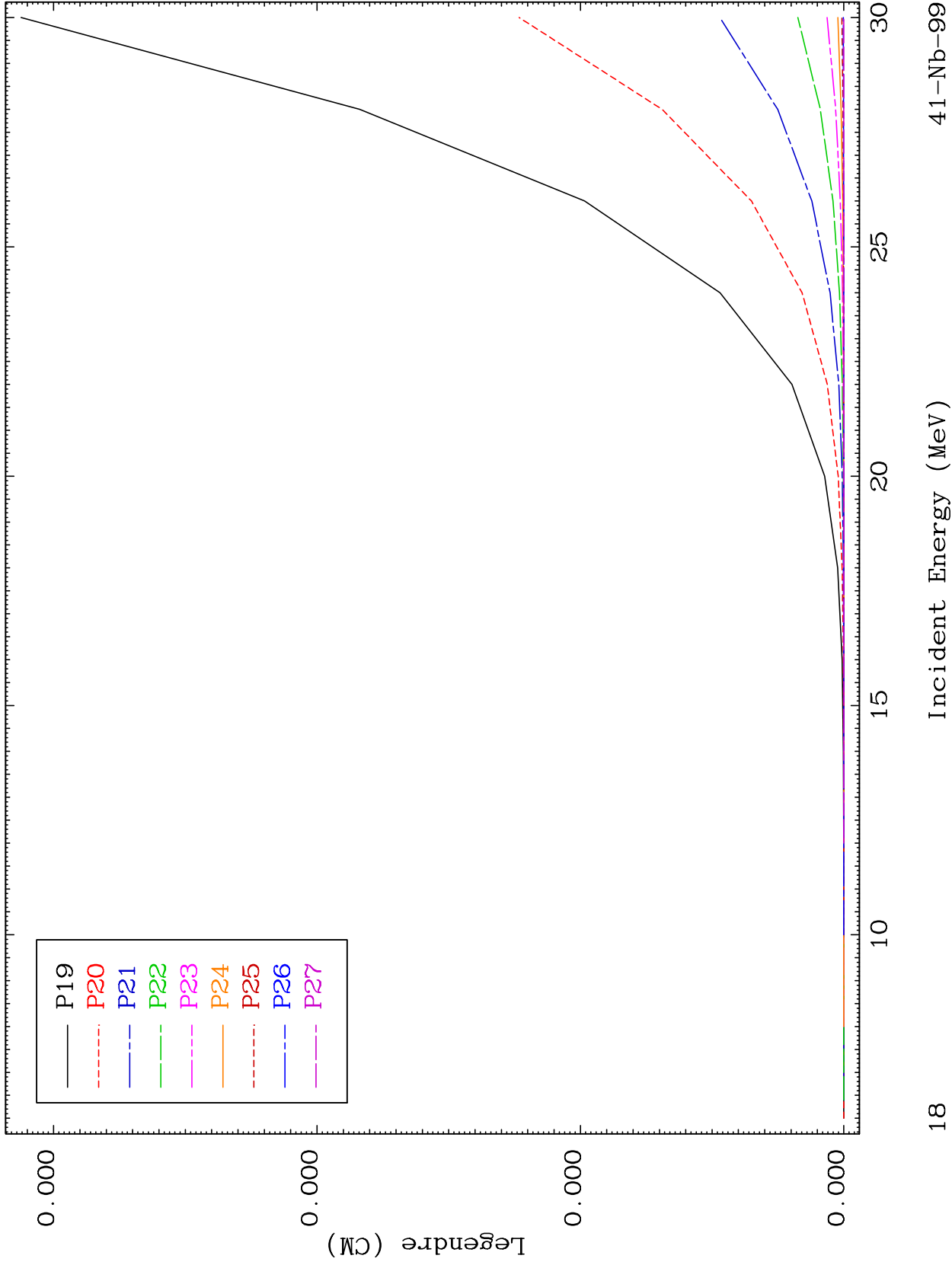
Incident Energy (MeV)

41-Nb-99

MAT 4143

### Elastic Legendre Coefficients

41-Nb-99



18

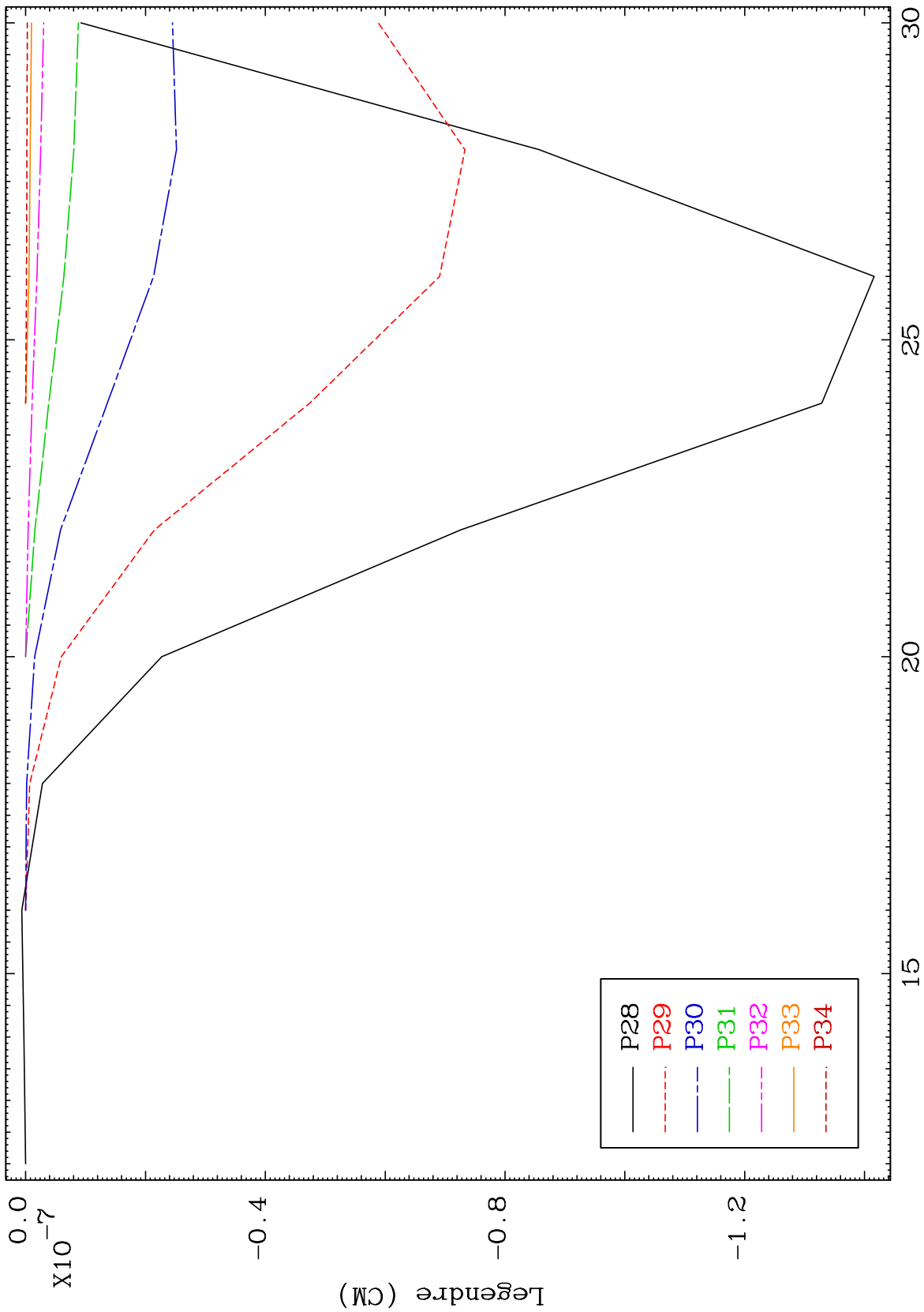
Incident Energy (MeV)

41-Nb-99

MAT 4143

41-Nb-99

Elastic Legendre Coefficients



19

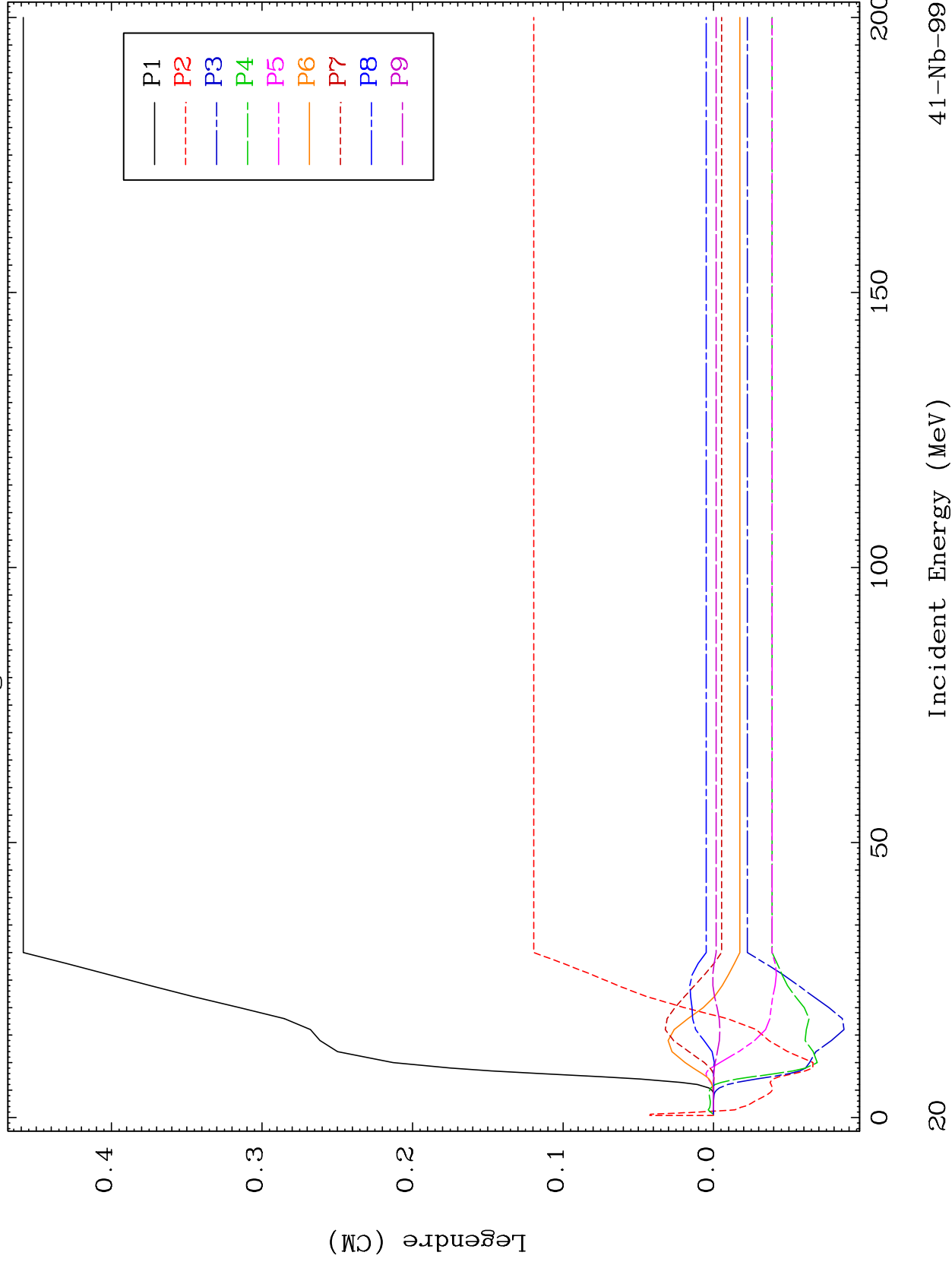
Incident Energy (MeV)

41-Nb-99

MAT 4143

365.3 keV (n,n') Level  
Legendre Coefficients

41-Nb-99

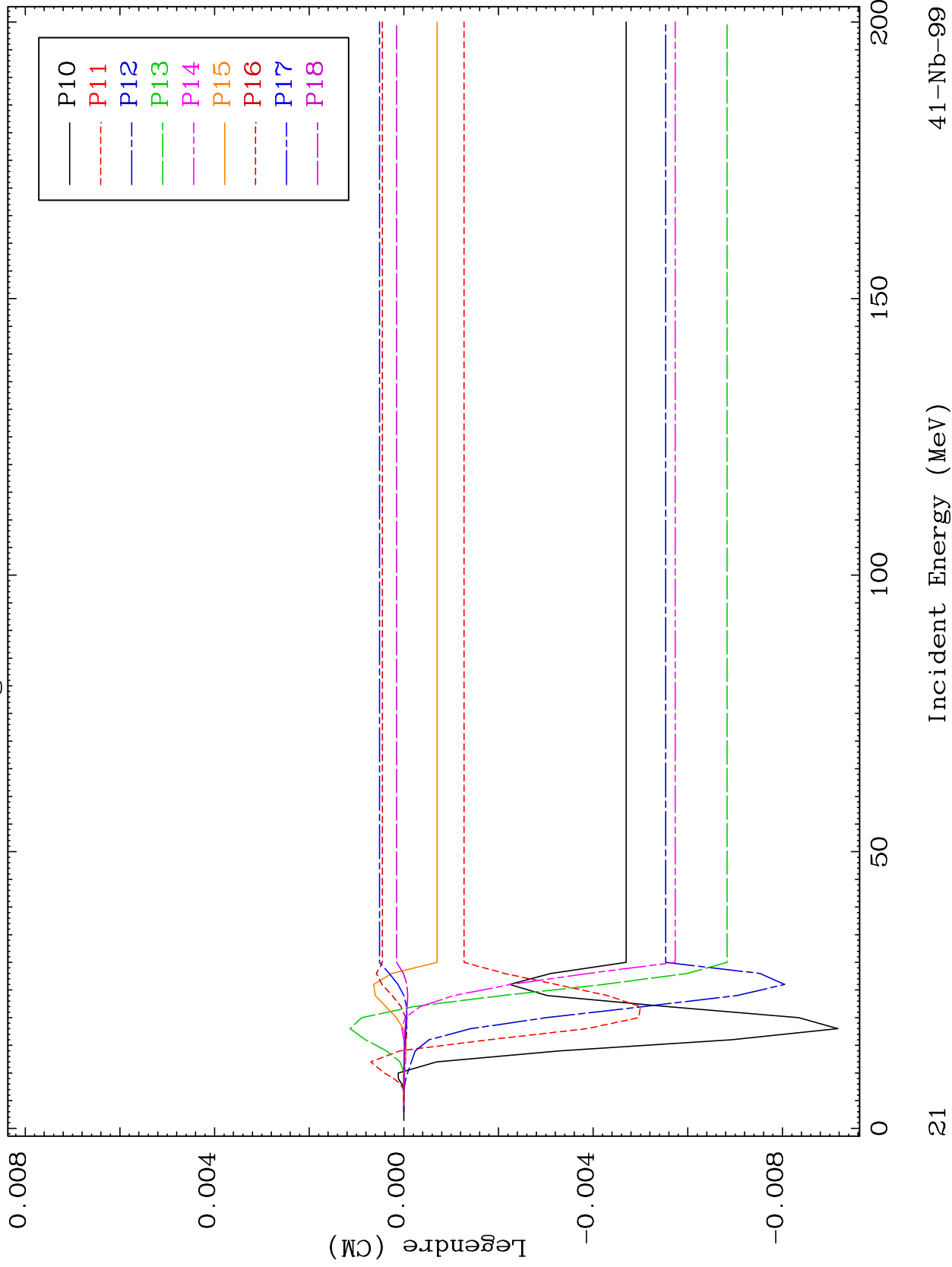


41-Nb-99

MAT 4143

365.3 keV (n,n') Level  
Legendre Coefficients

41-Nb-99

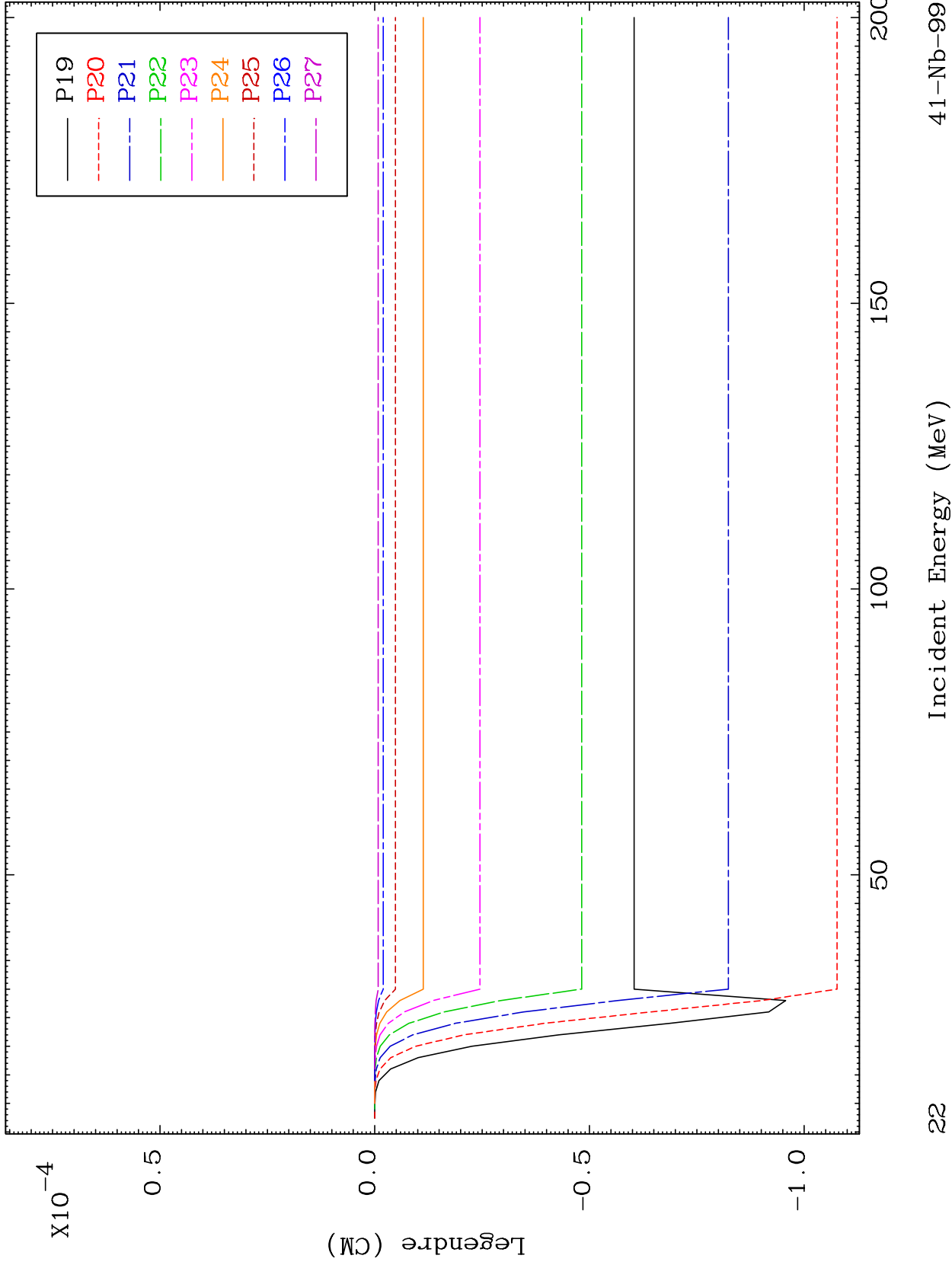


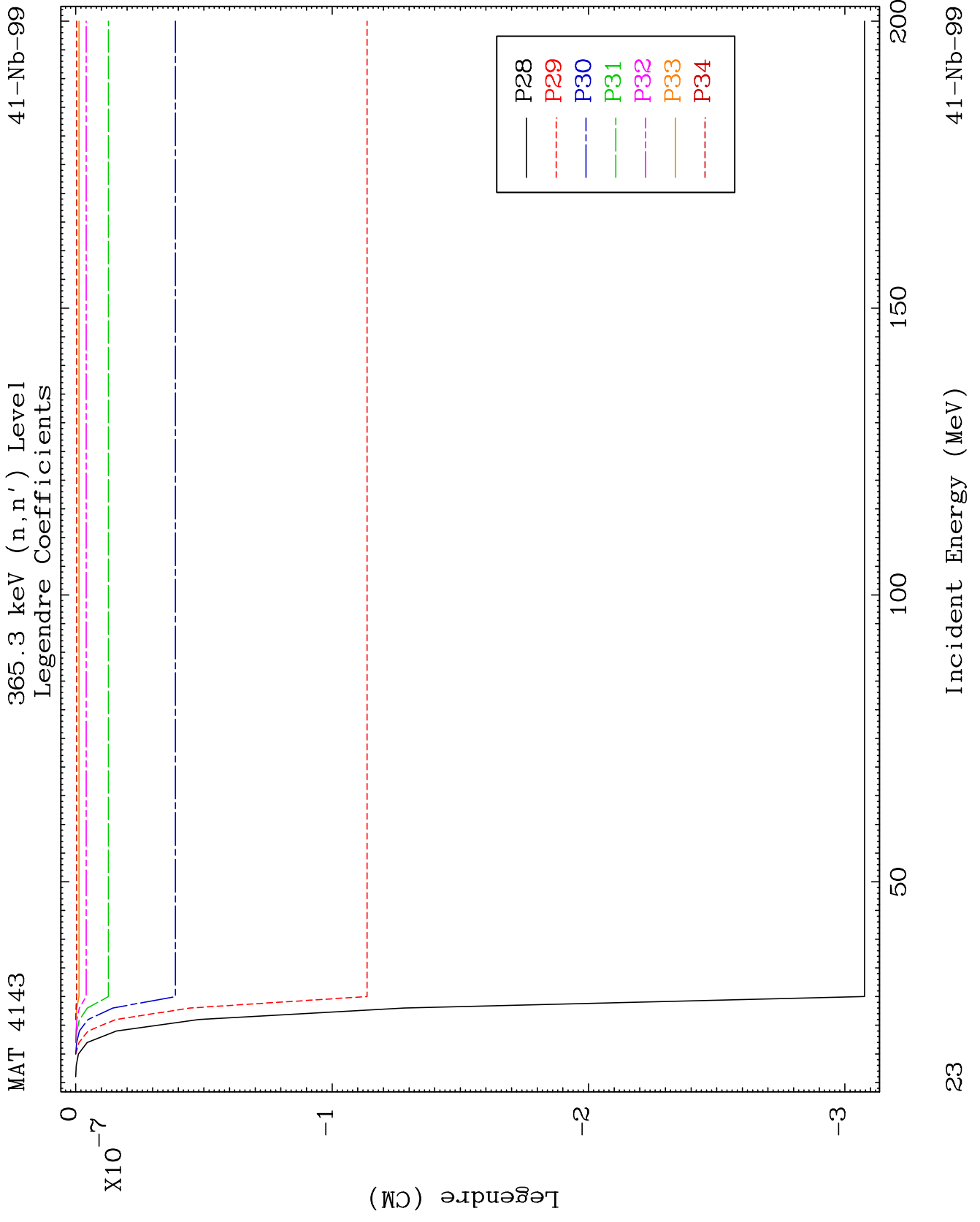
21

MAT 4143

365.3 keV (n,n') Level  
Legendre Coefficients

41-Nb-99



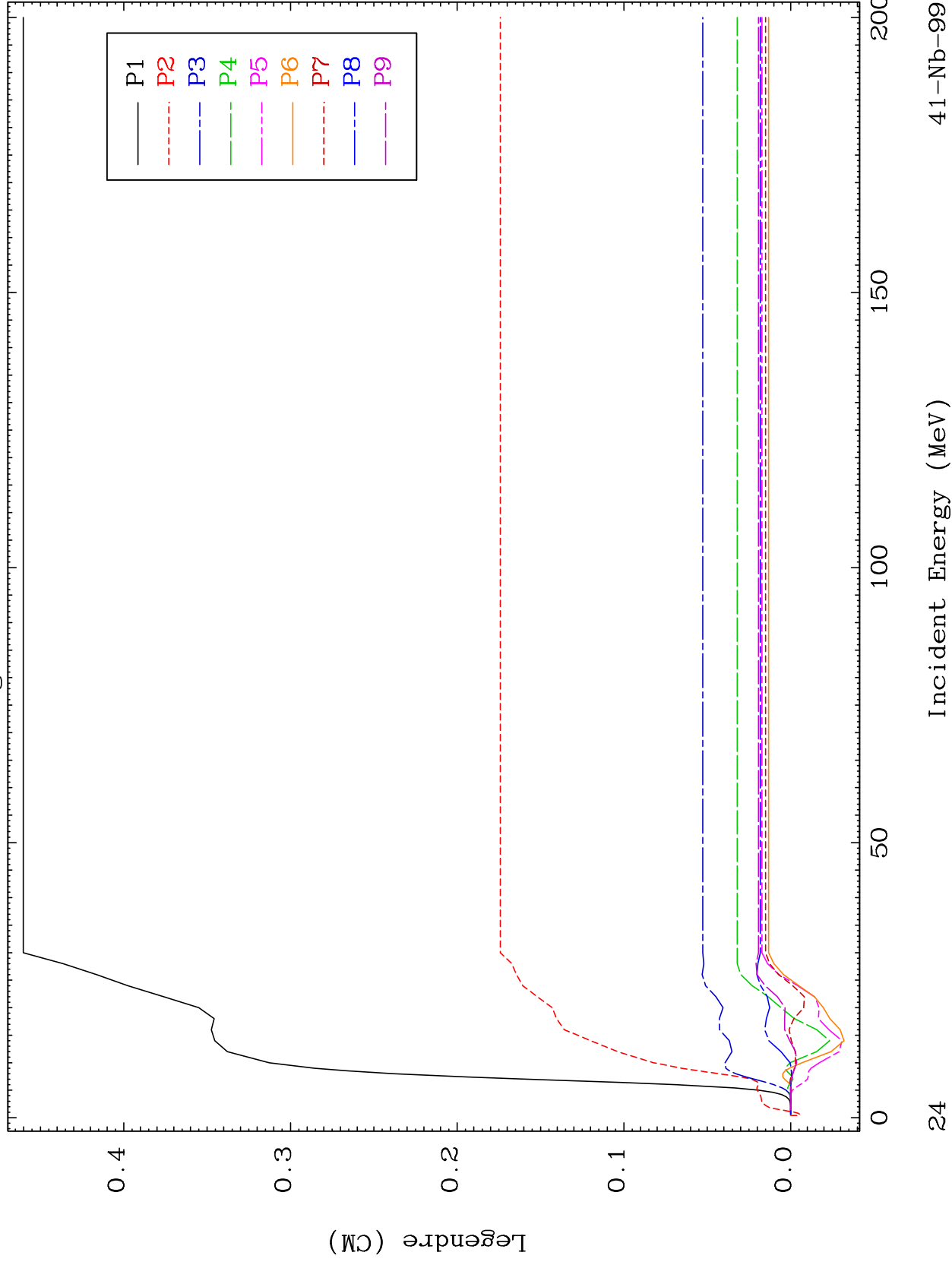




MAT 4143

387.4 keV (n,n') Level  
Legendre Coefficients

41-Nb-99

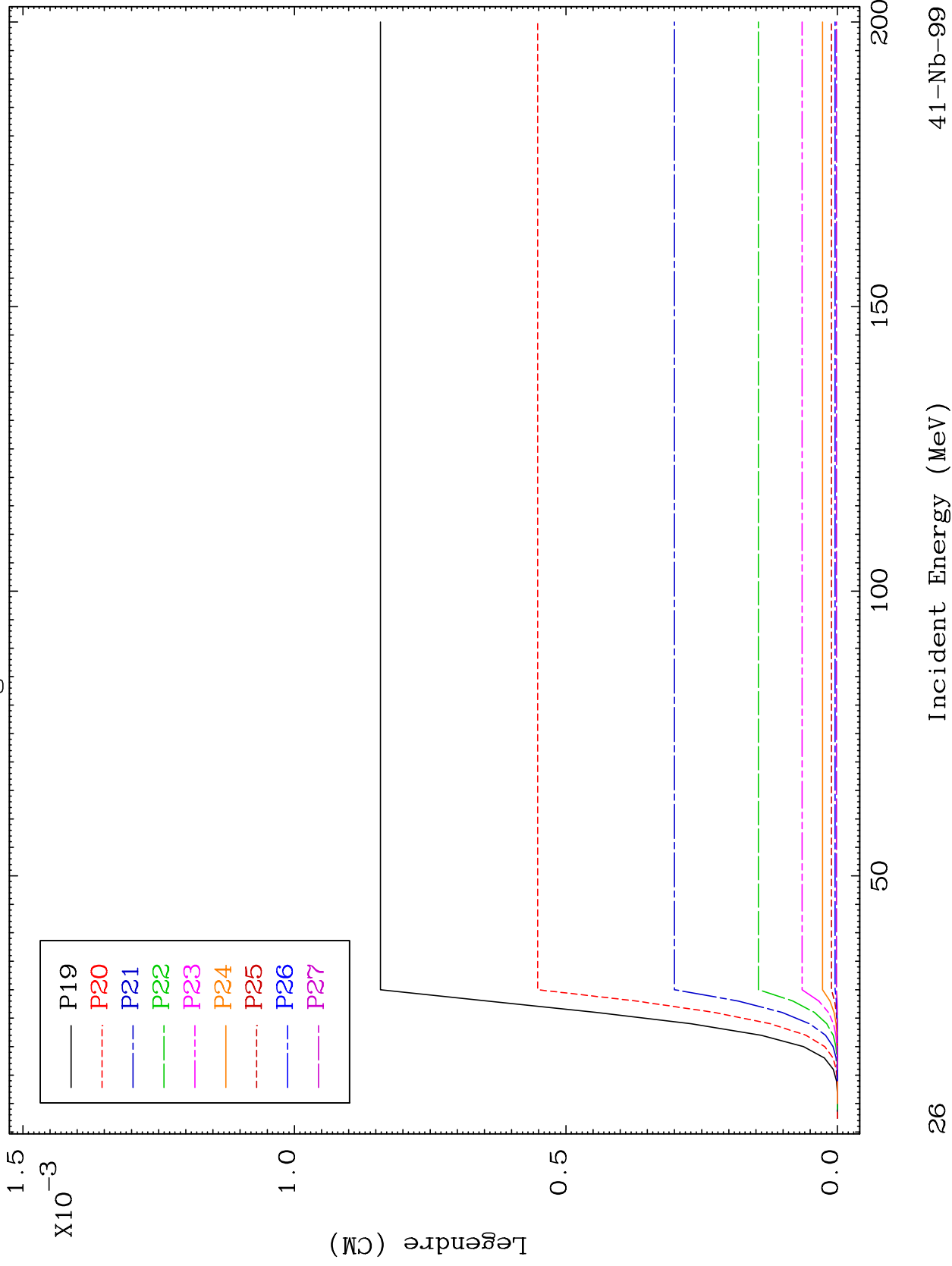


41-Nb-99

Incident Energy (MeV)

24

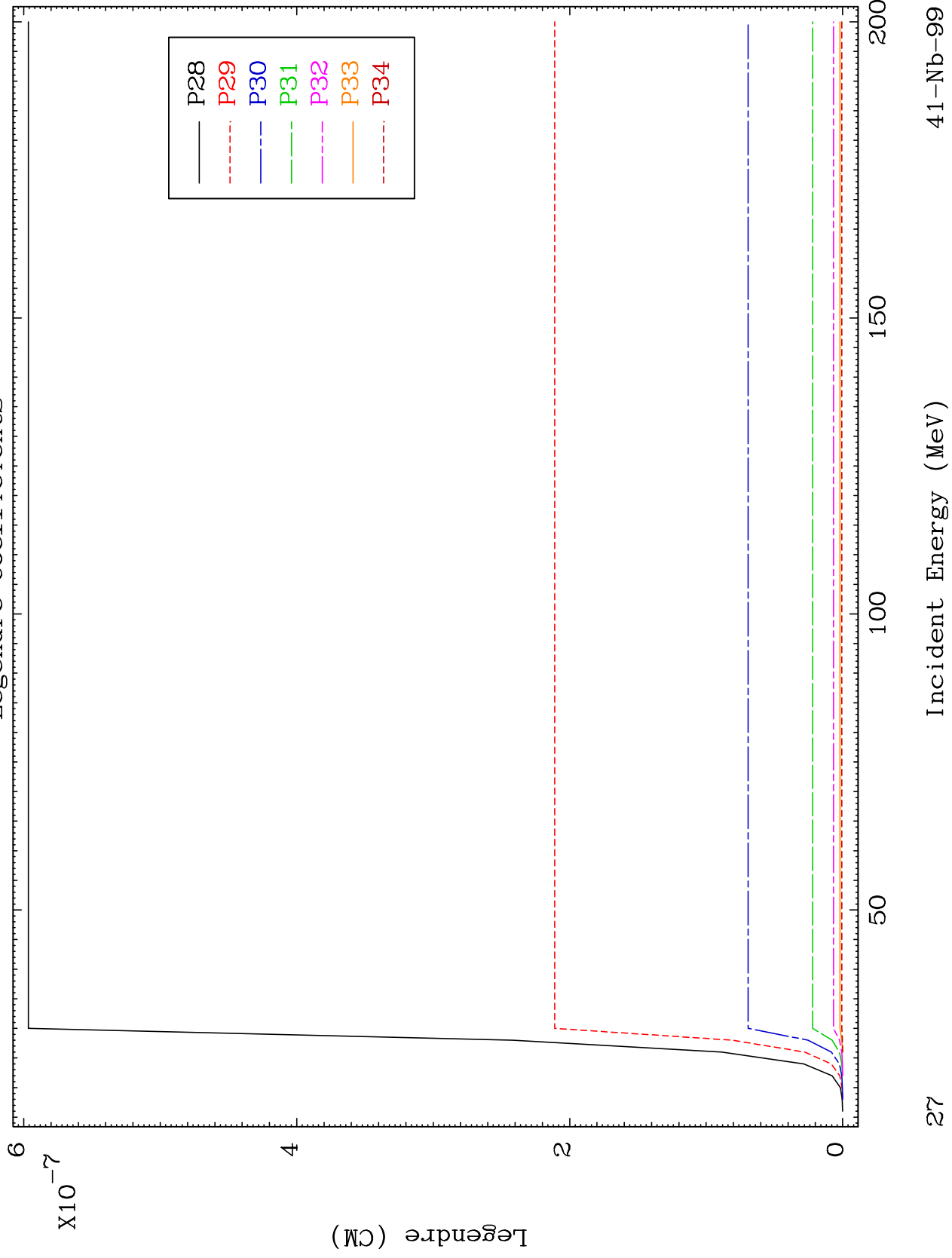




MAT 4143

387.4 keV (n,n') Level  
Legendre Coefficients

41-Nb-99

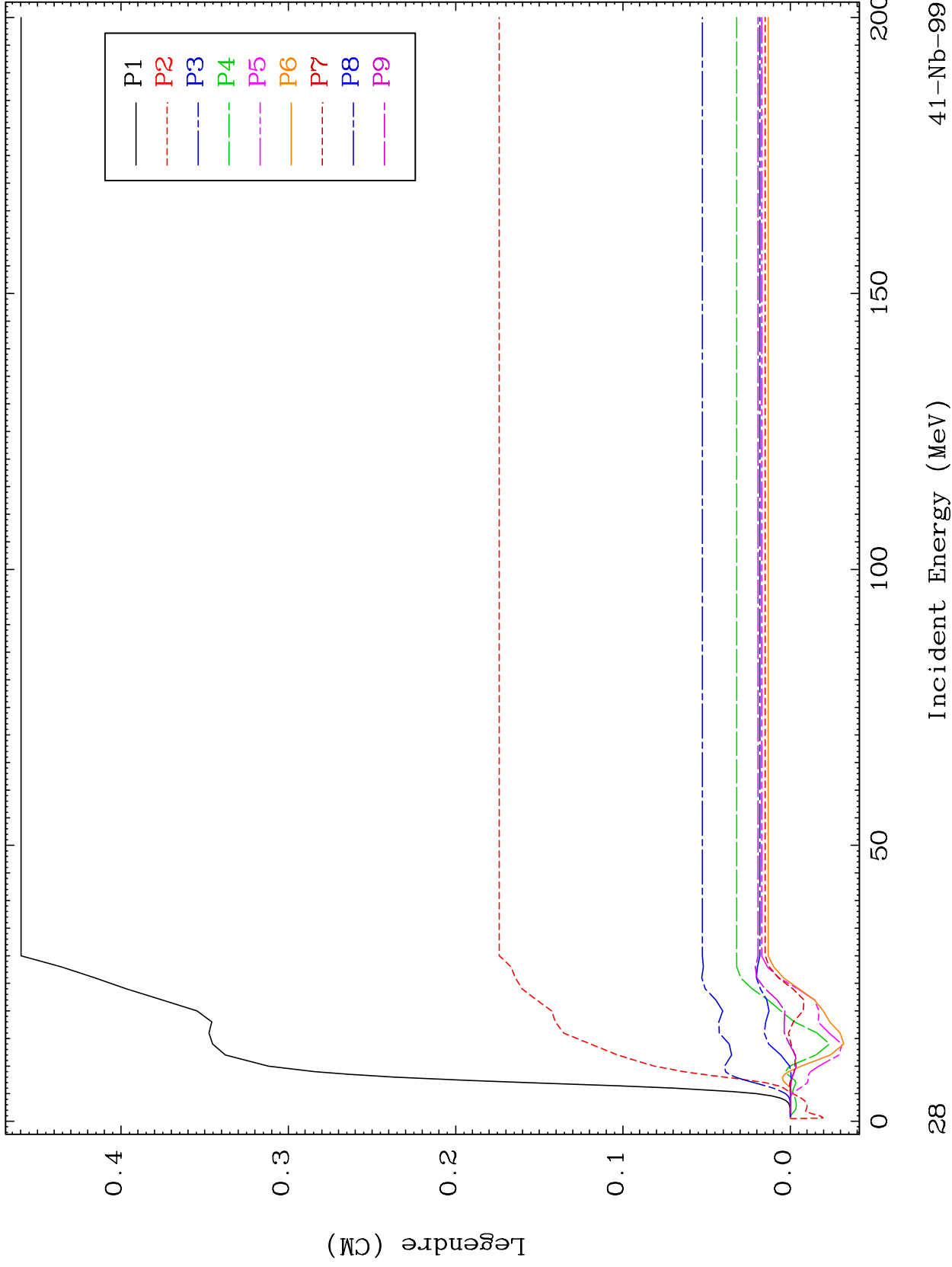


27

MAT 4143

469.1 keV (n,n') Level  
Legendre Coefficients

41-Nb-99



28

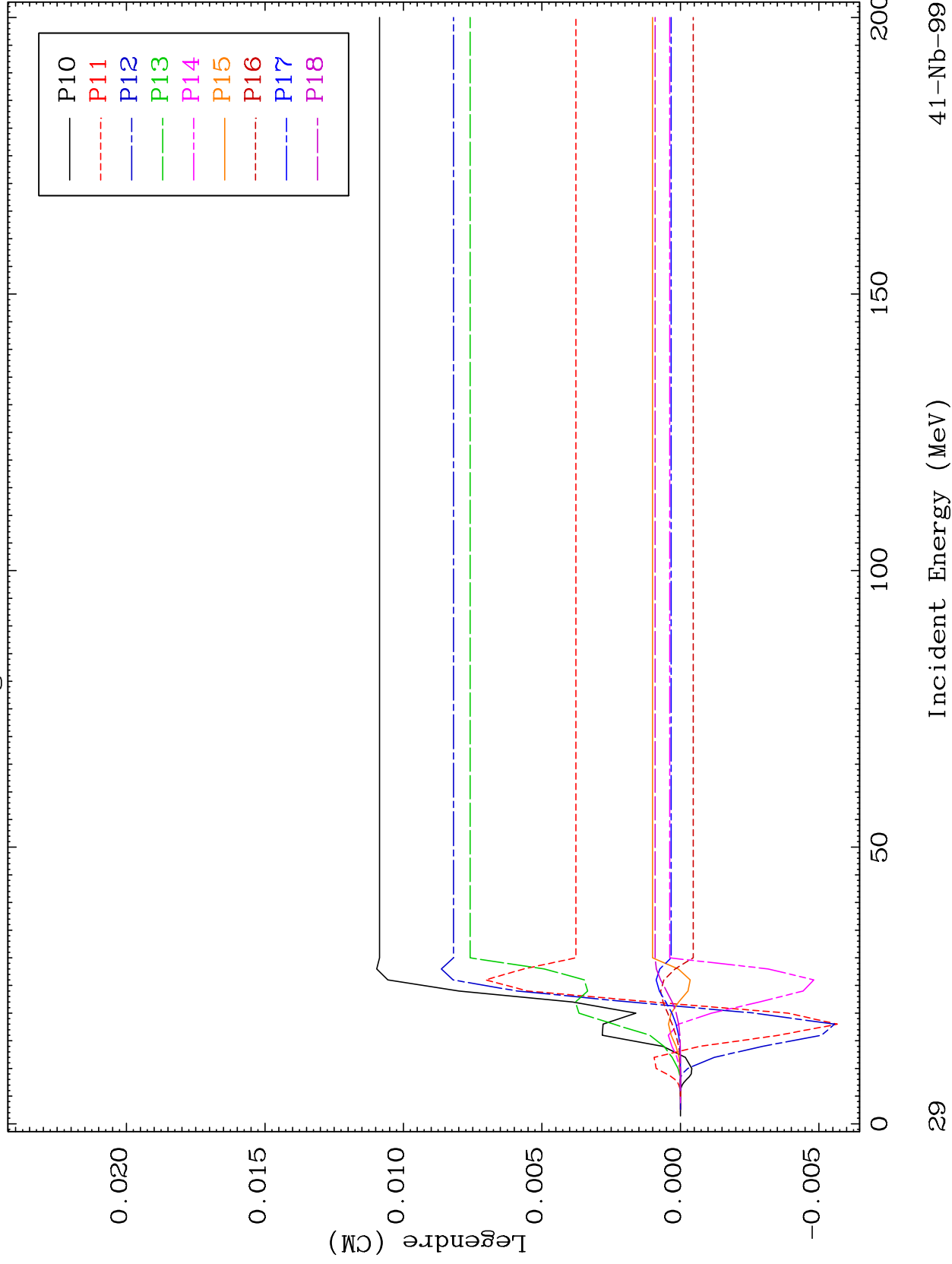
Incident Energy (MeV)

41-Nb-99

MAT 4143

469.1 keV (n,n') Level  
Legendre Coefficients

41-Nb-99



41-Nb-99

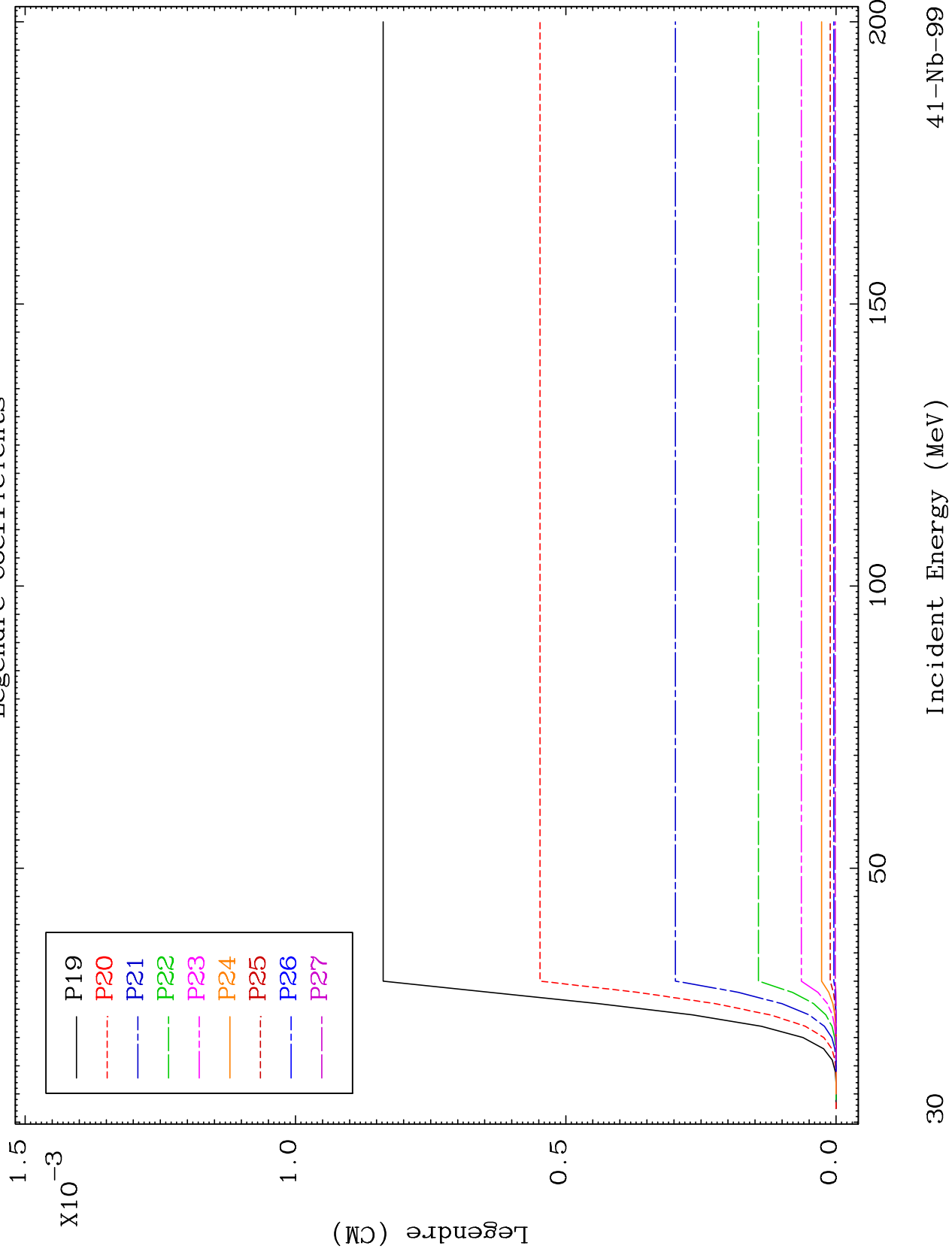
Incident Energy (MeV)

29

MAT 4143

469.1 keV (n,n') Level  
Legendre Coefficients

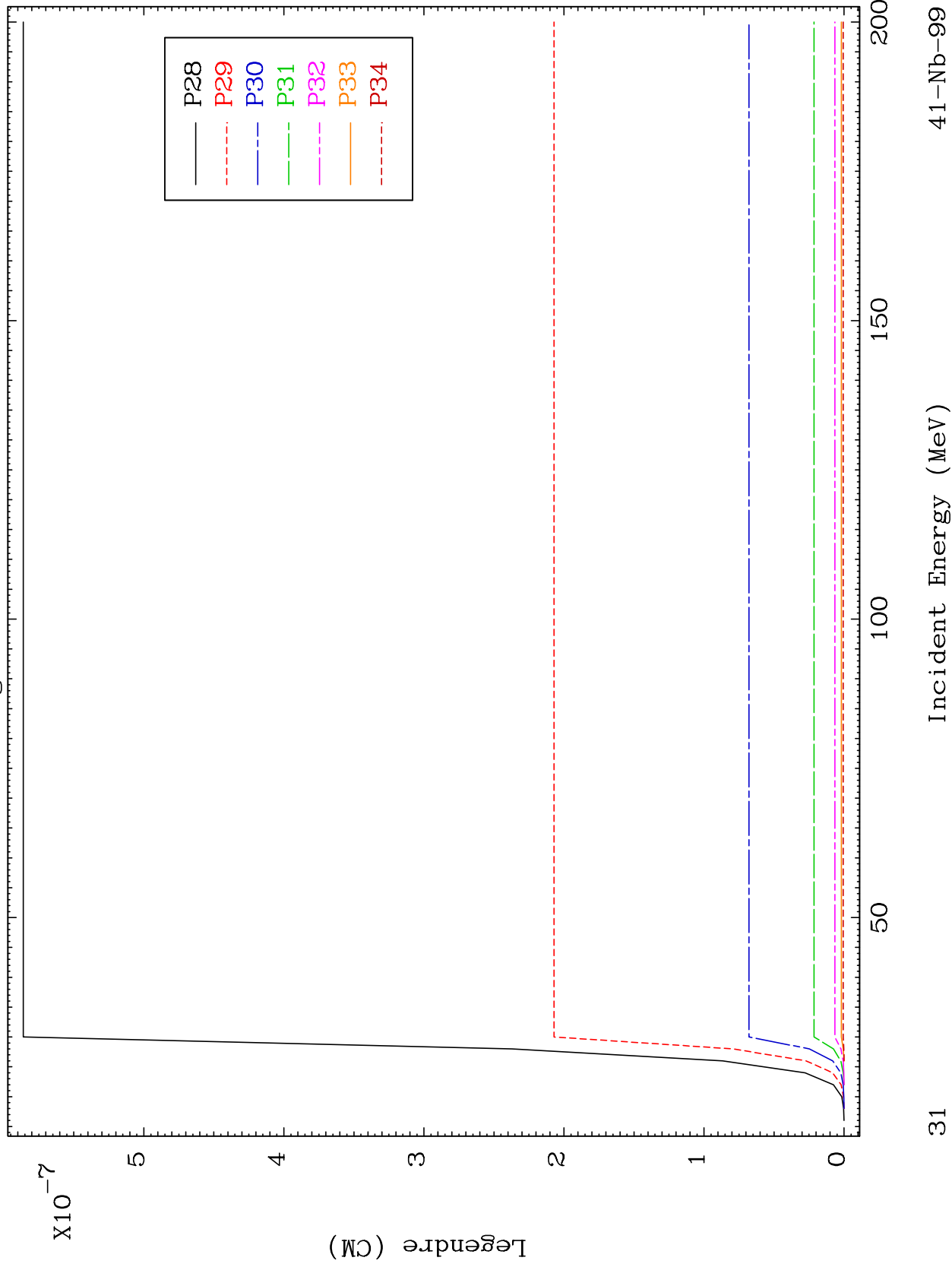
41-Nb-99



MAT 4143

469.1 keV (n,n') Level  
Legendre Coefficients

41-Nb-99



31

Incident Energy (MeV)

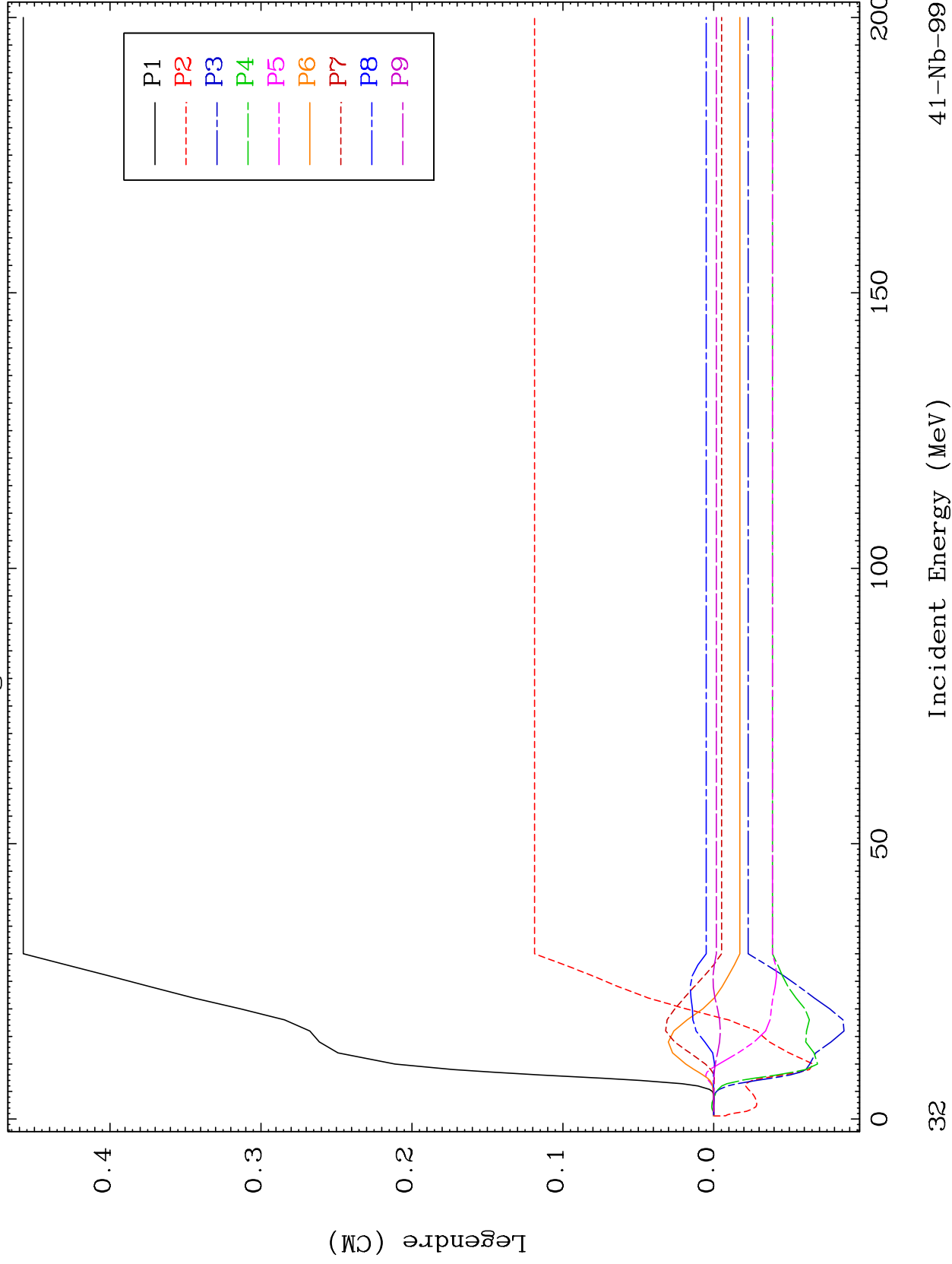
41-Nb-99



MAT 4143

544.2 keV (n,n') Level  
Legendre Coefficients

41-Nb-99



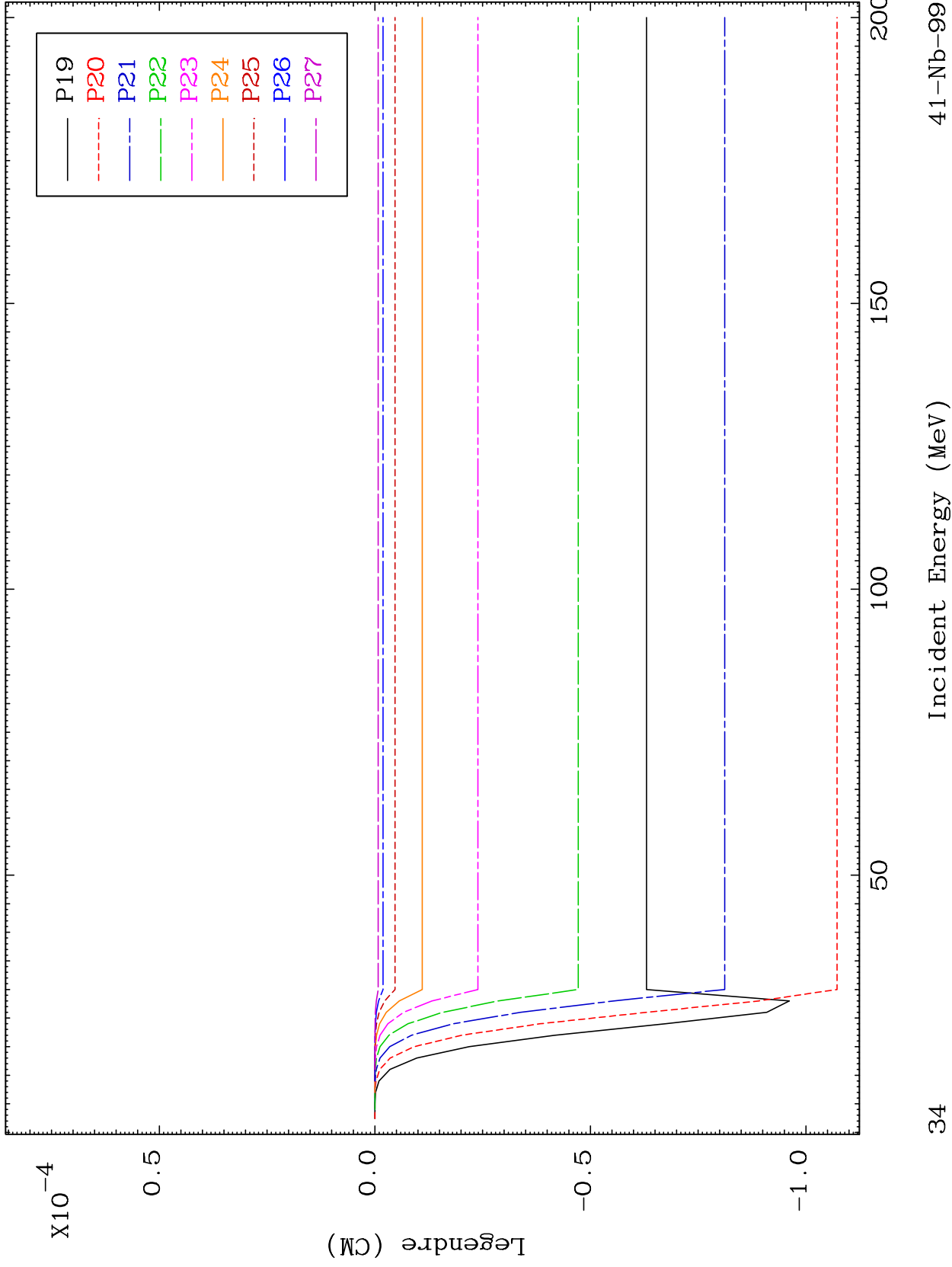
32



MAT 4143

544.2 keV (n,n') Level  
Legendre Coefficients

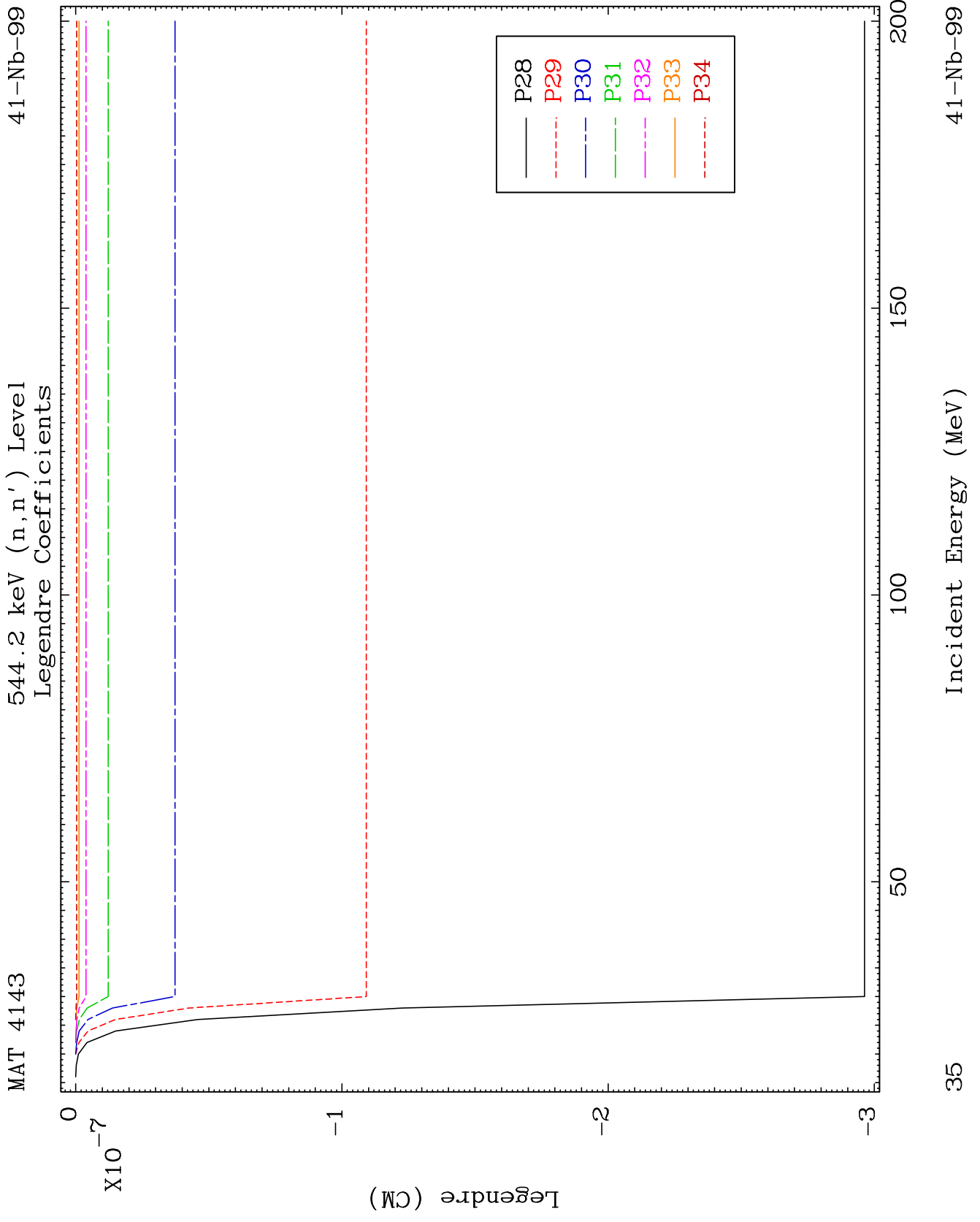
41-Nb-99



34

Incident Energy (MeV)

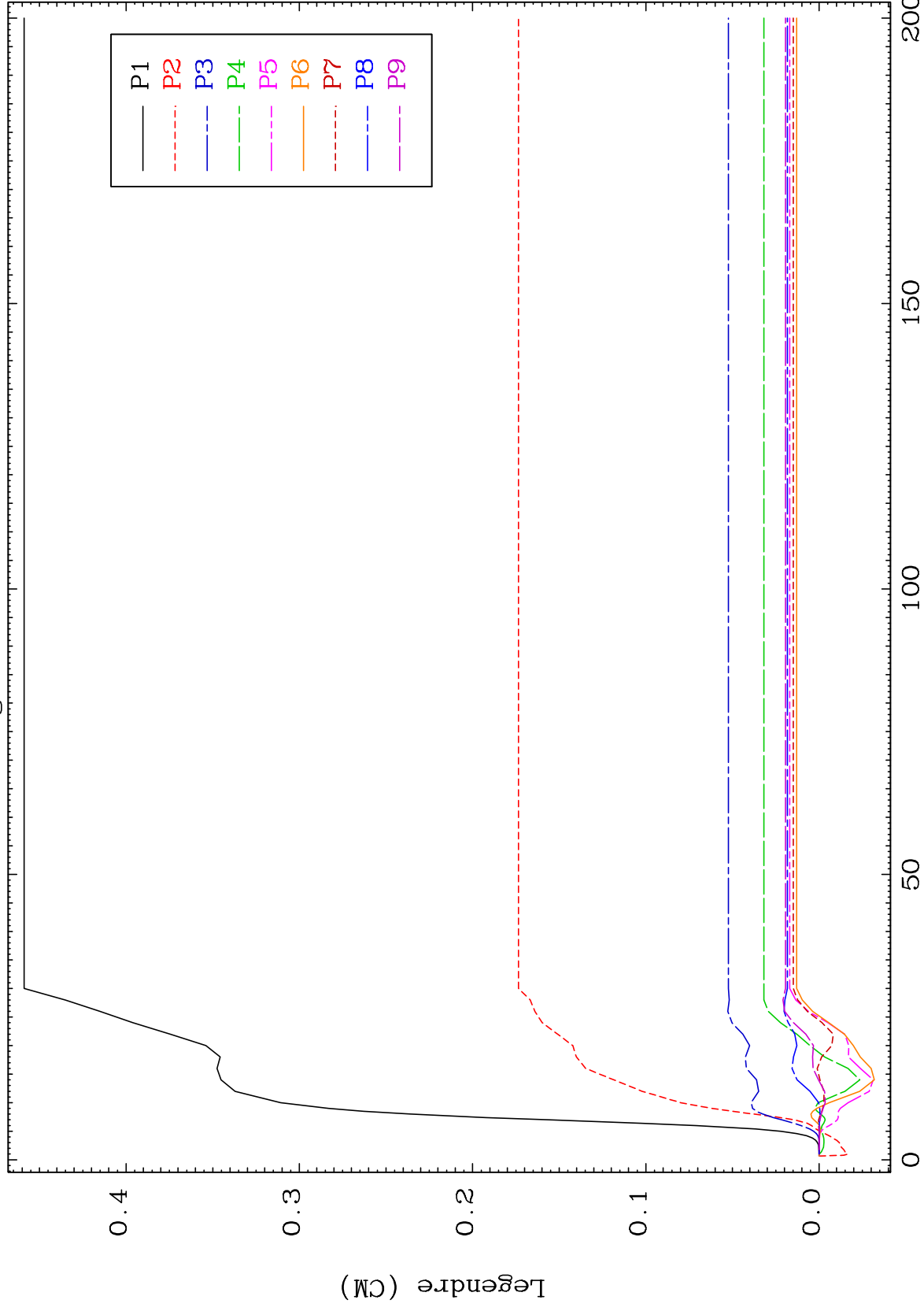
41-Nb-99



MAT 4143

630.7 keV (n,n') Level  
Legendre Coefficients

41-Nb-99



36

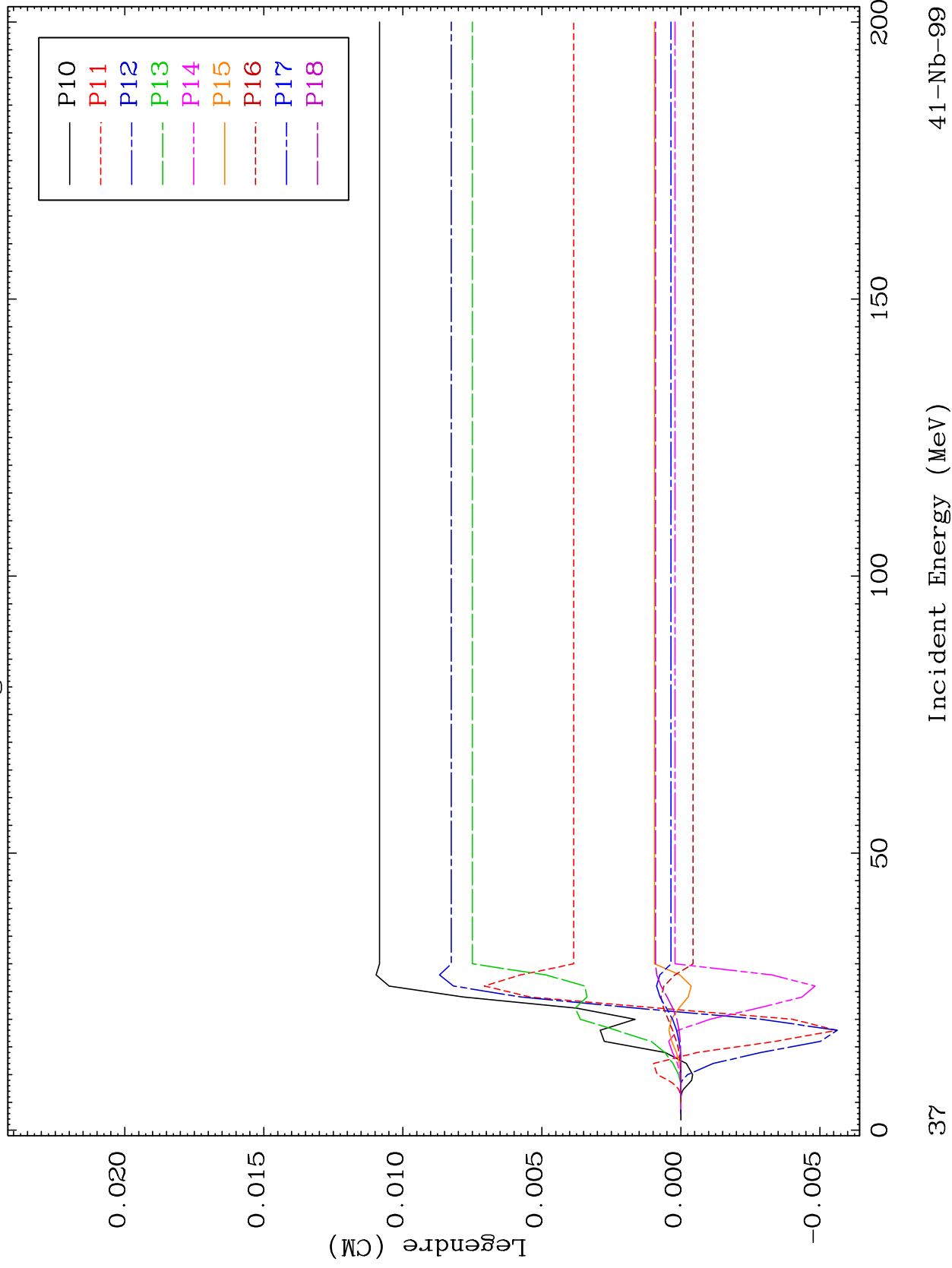
Incident Energy (MeV)

41-Nb-99

MAT 4143

630.7 keV (n,n') Level  
Legendre Coefficients

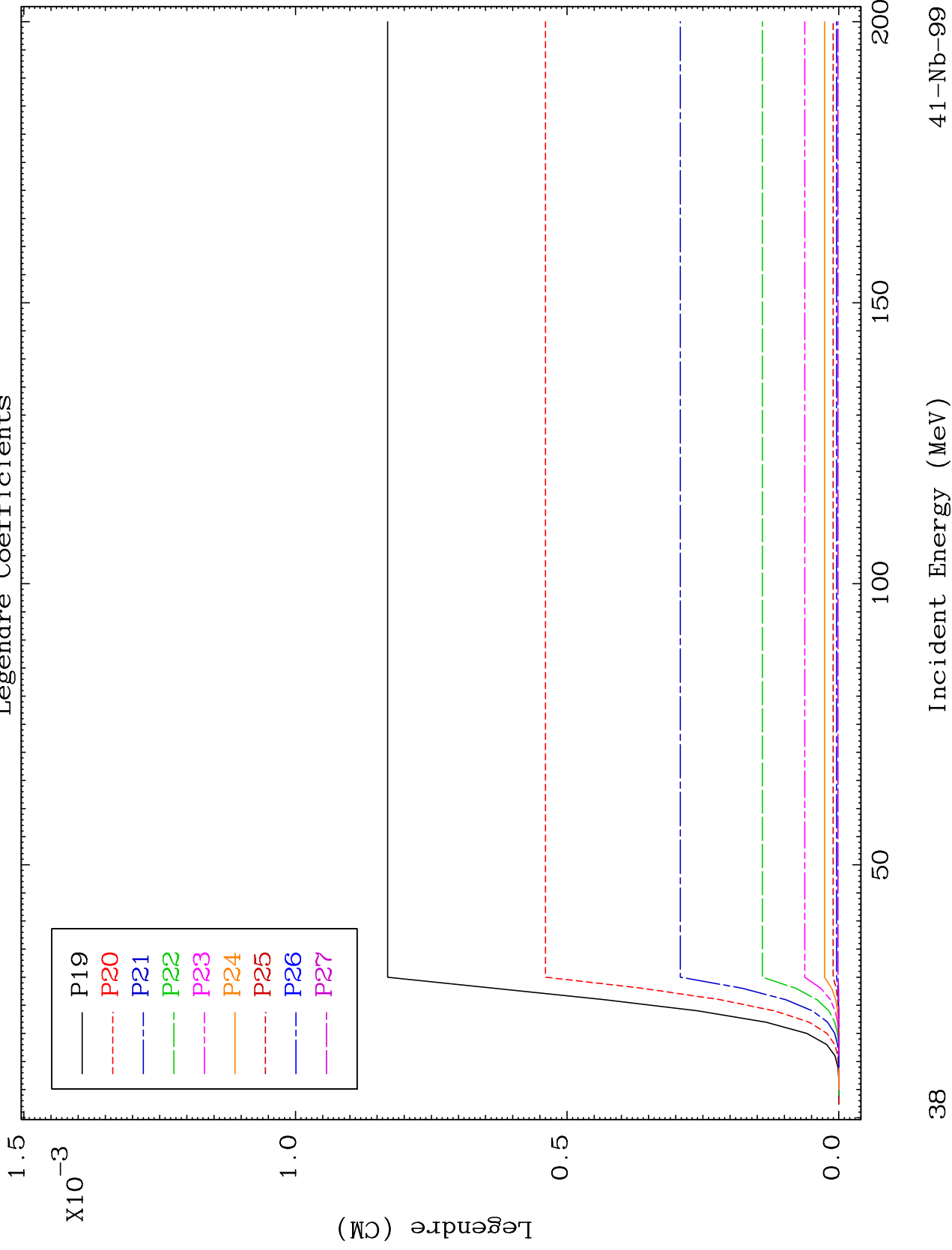
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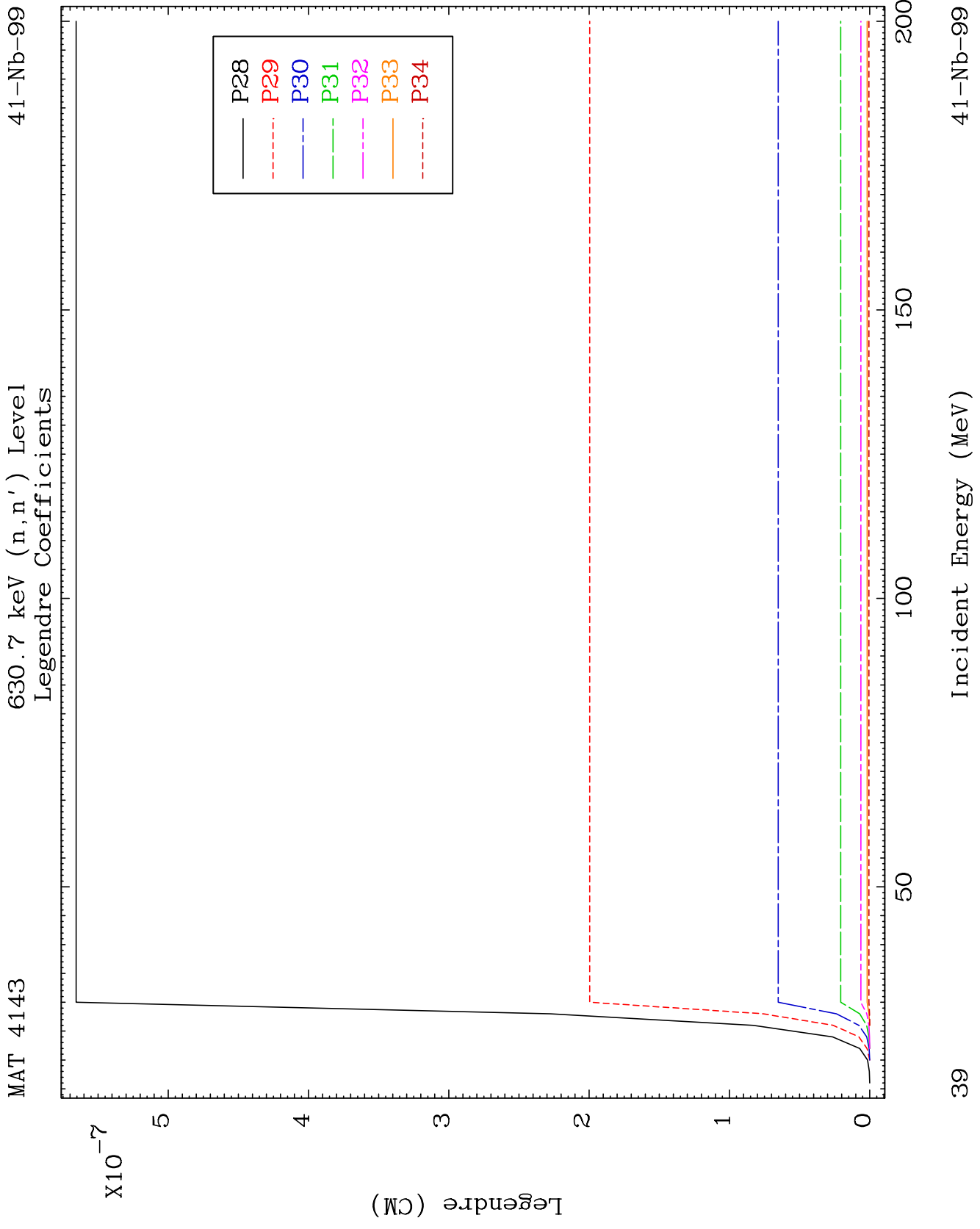


37

Incident Energy (MeV)

41-Nb-99



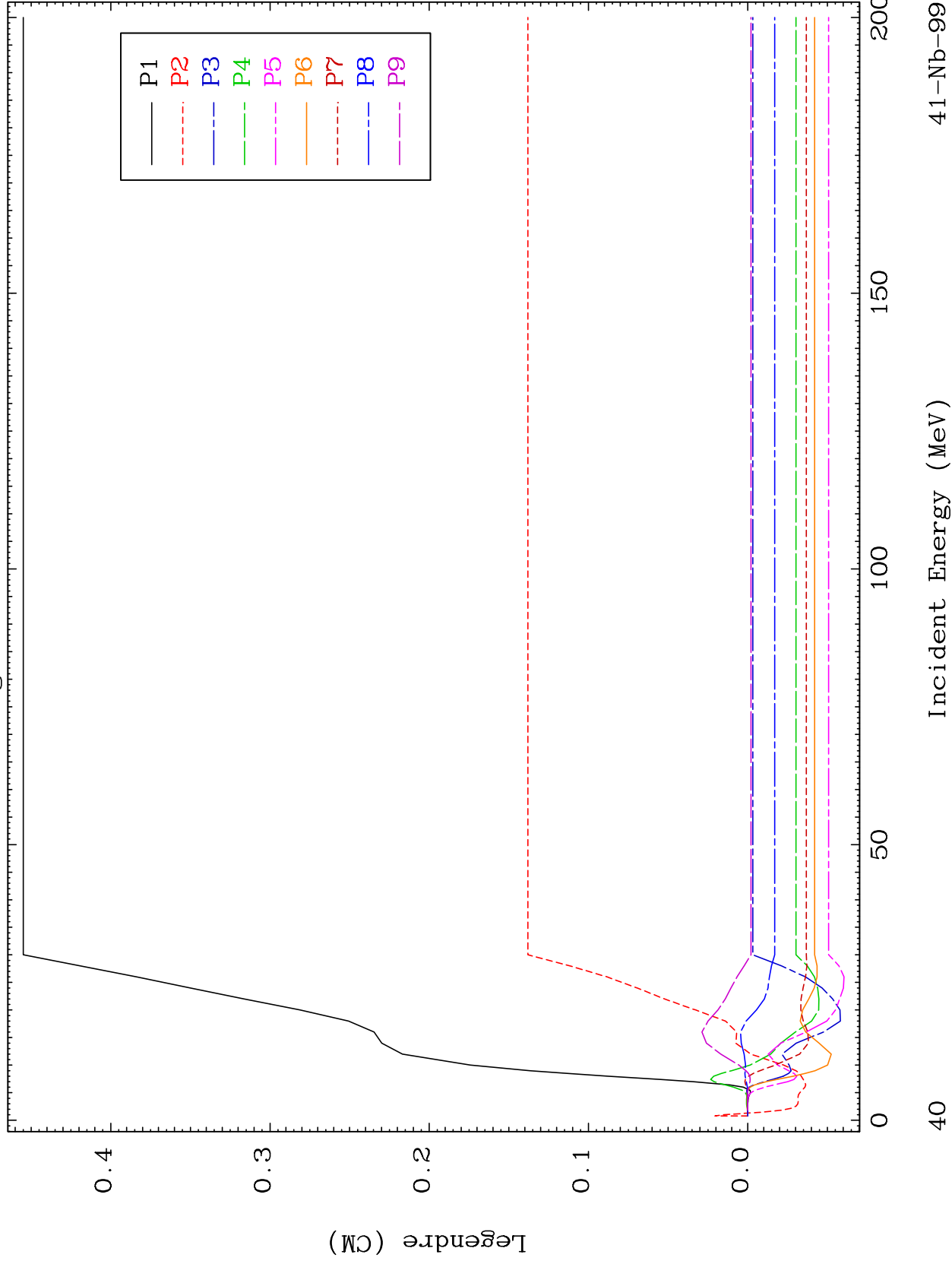




MAT 4143

765.0 keV (n,n') Level  
Legendre Coefficients

41-Nb-99

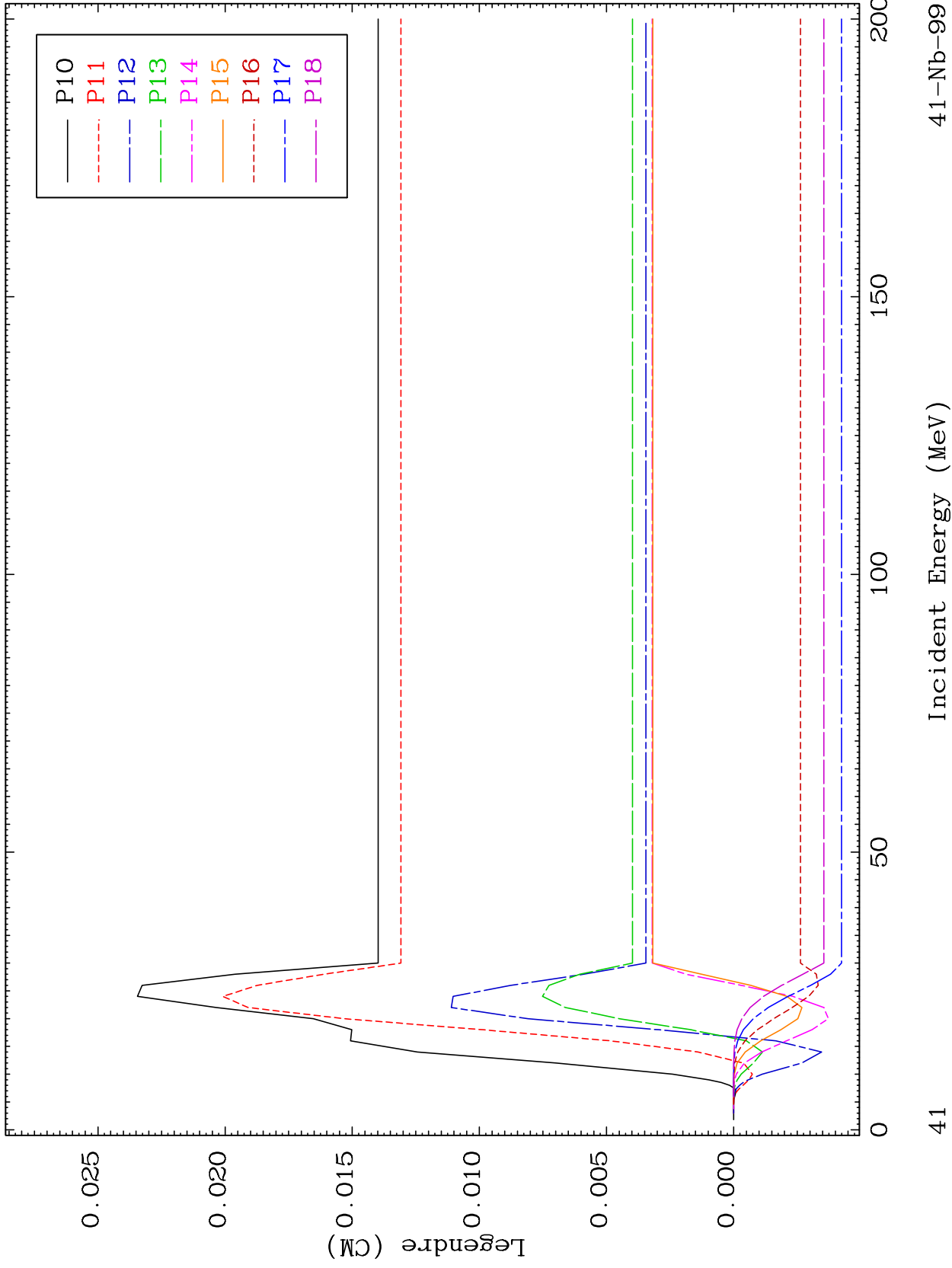


41-Nb-99

MAT 4143

765.0 keV (n,n') Level  
Legendre Coefficients

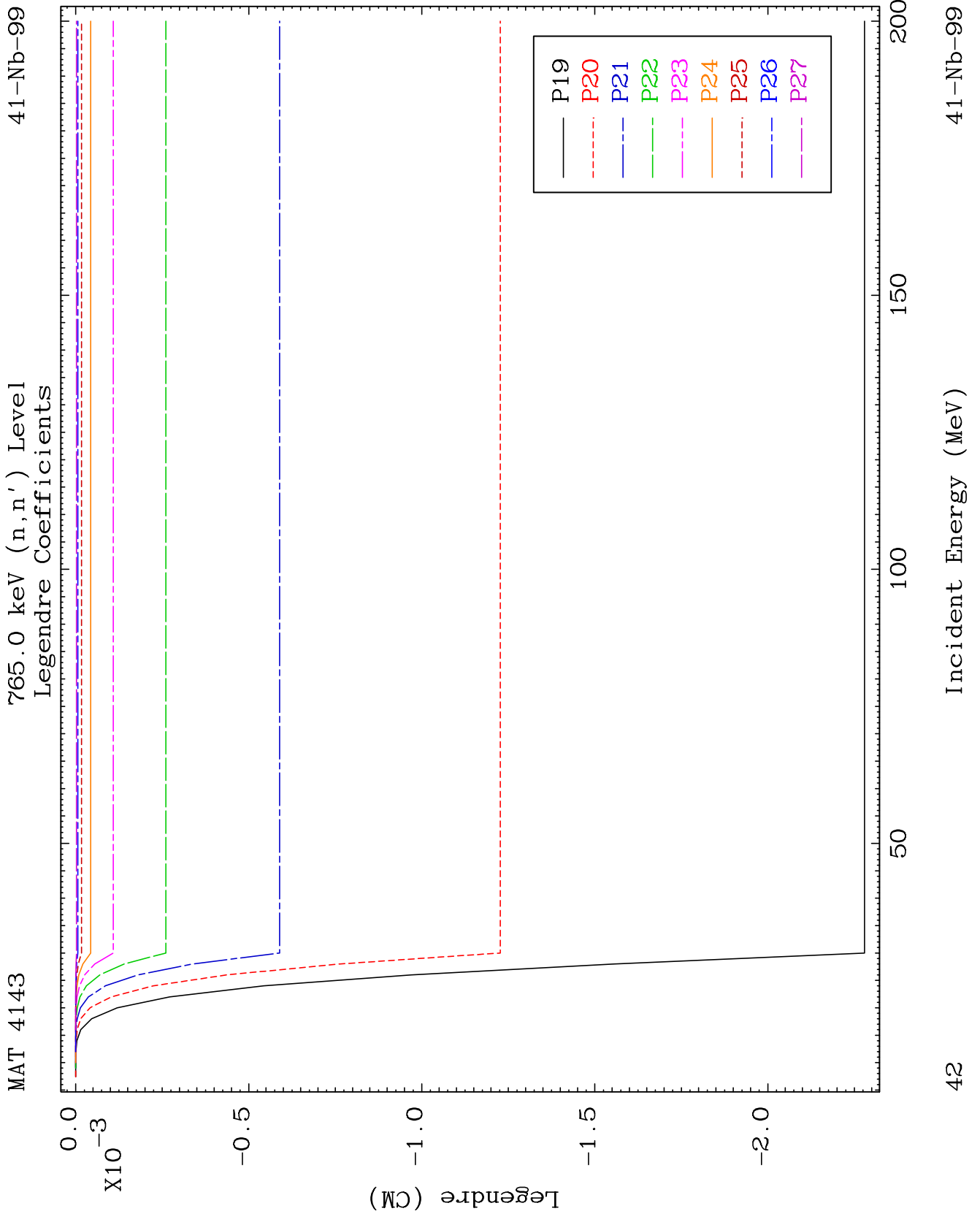
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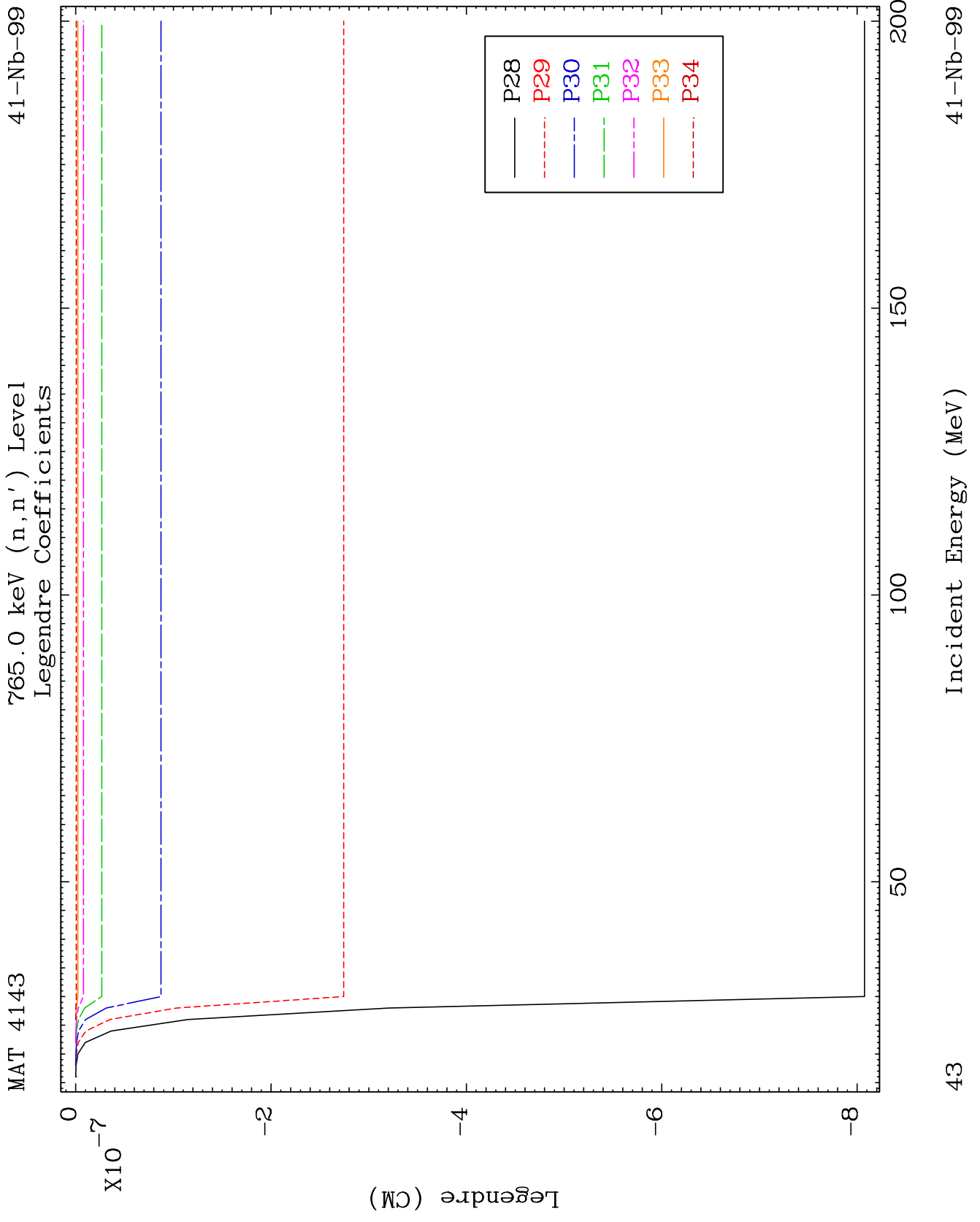


41

Incident Energy (MeV)

41-Nb-99

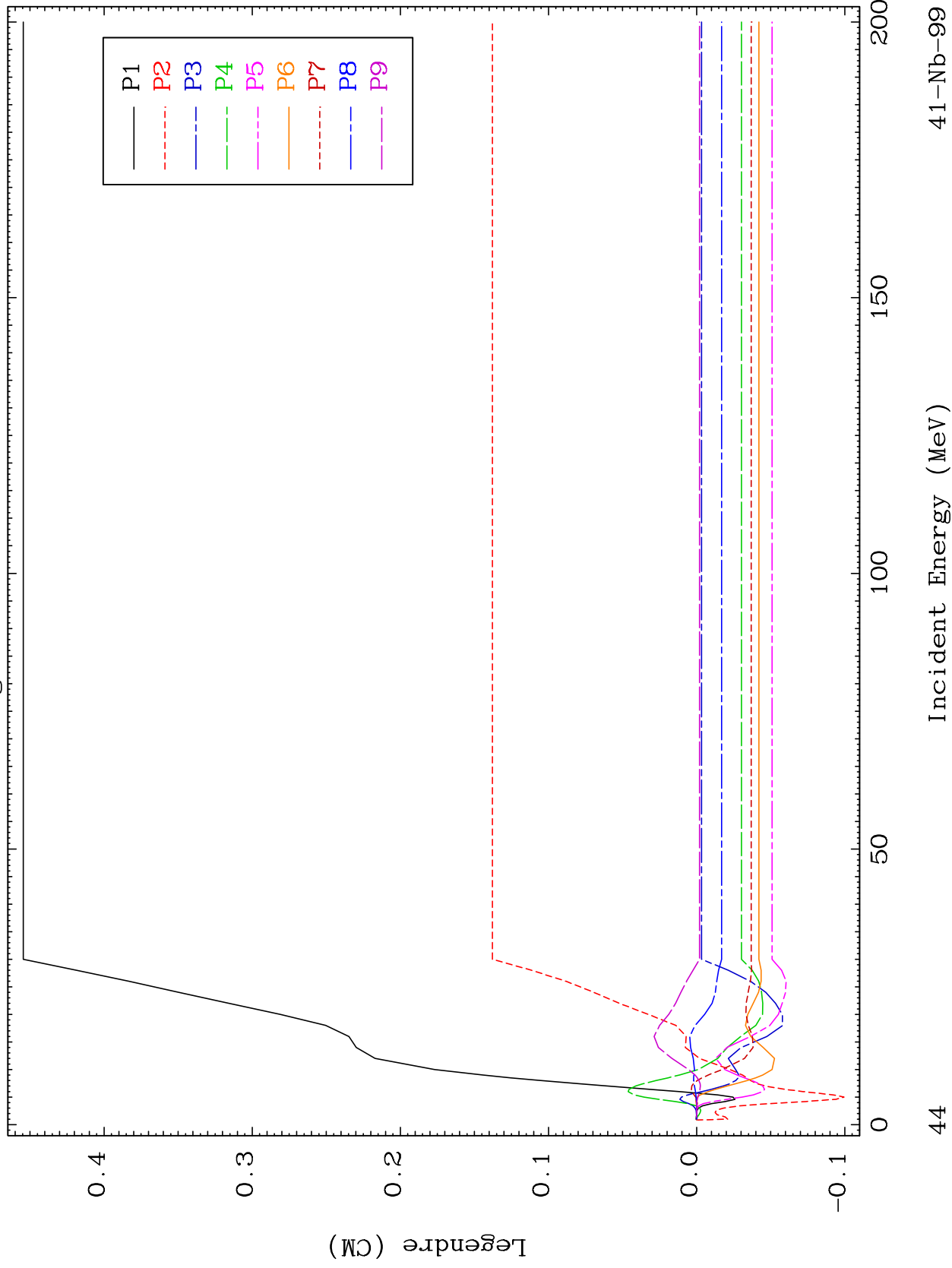




MAT 4143

816.7 keV (n,n') Level  
Legendre Coefficients

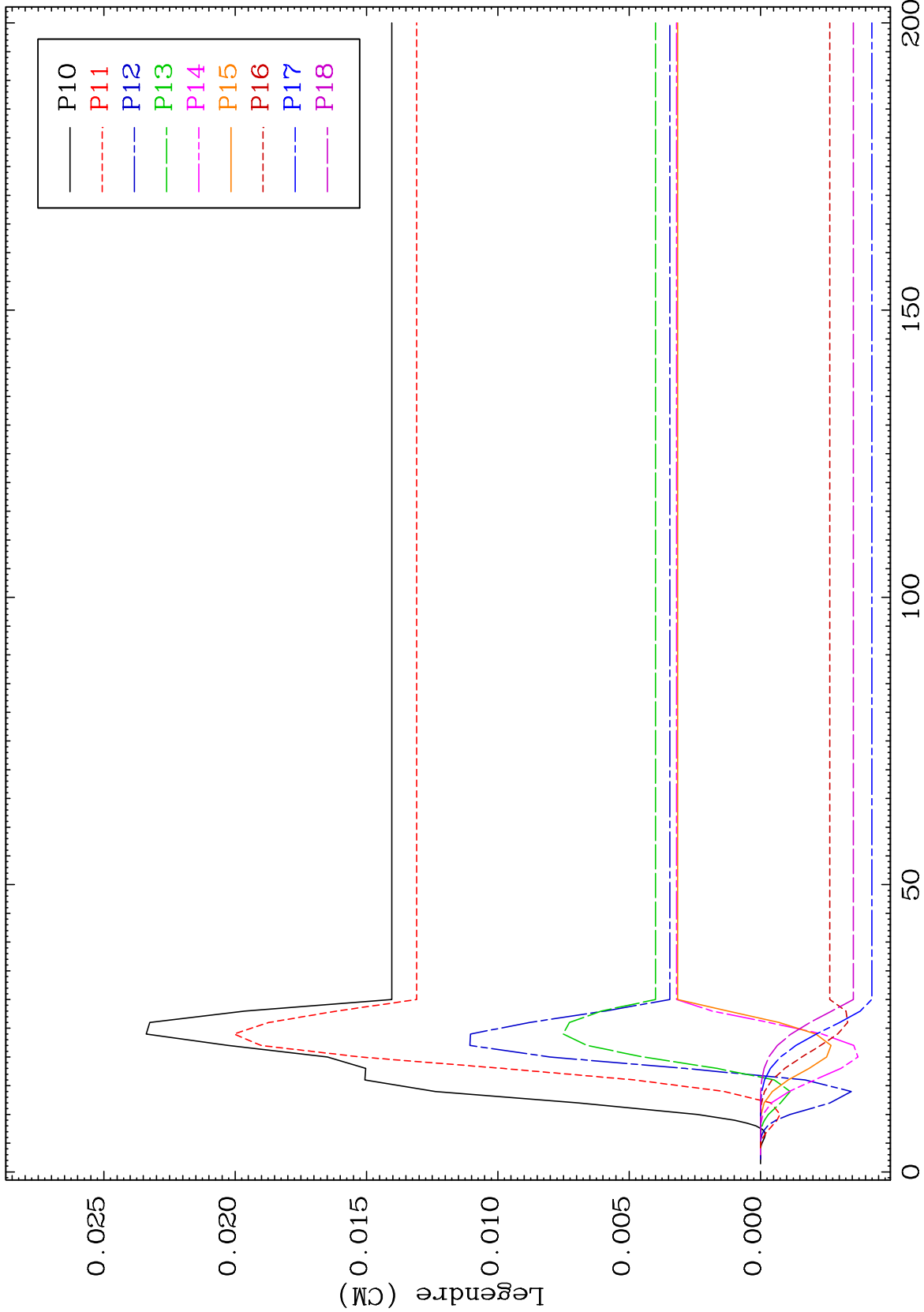
41-Nb-99



MAT 4143

816.7 keV (n,n') Level  
Legendre Coefficients

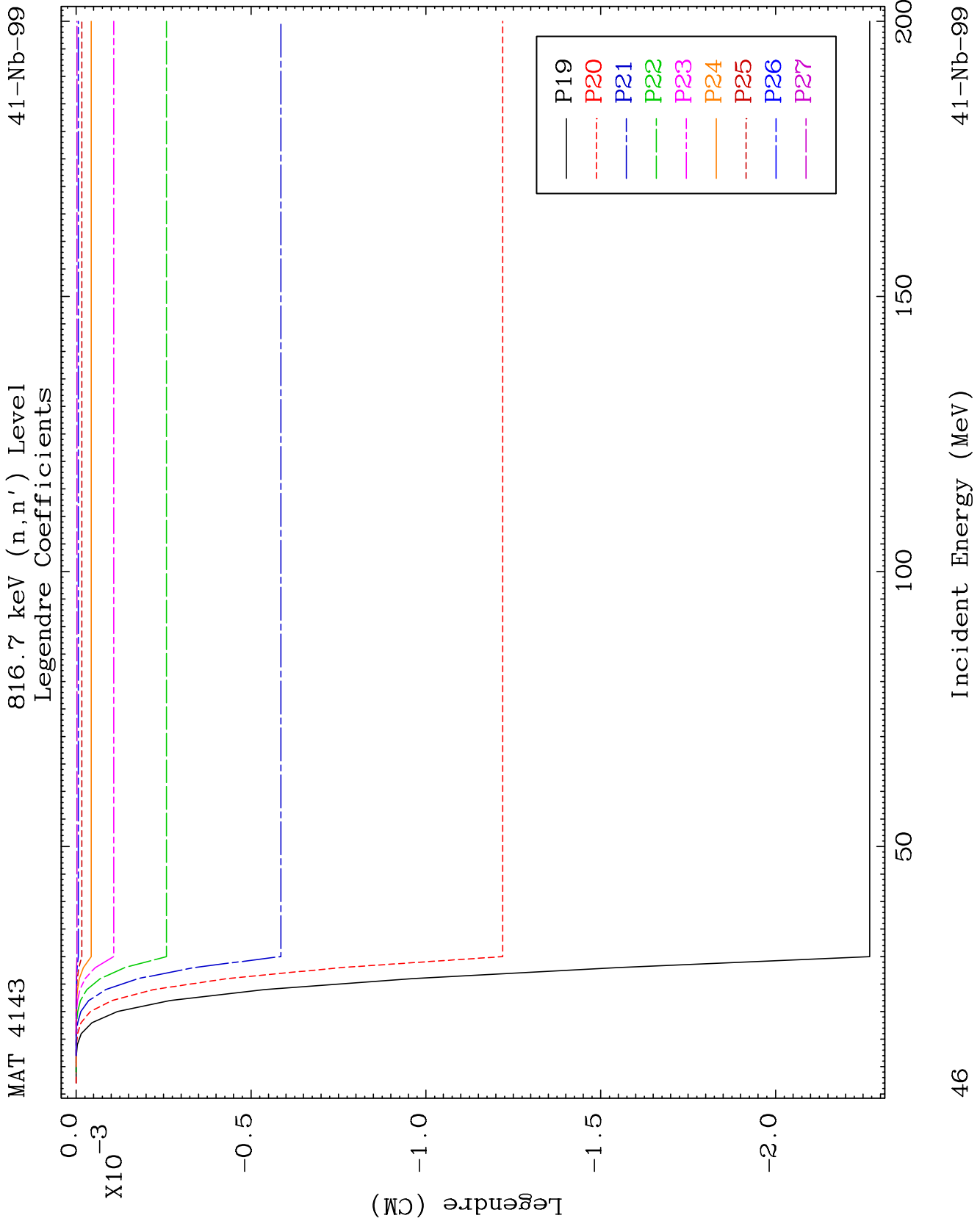
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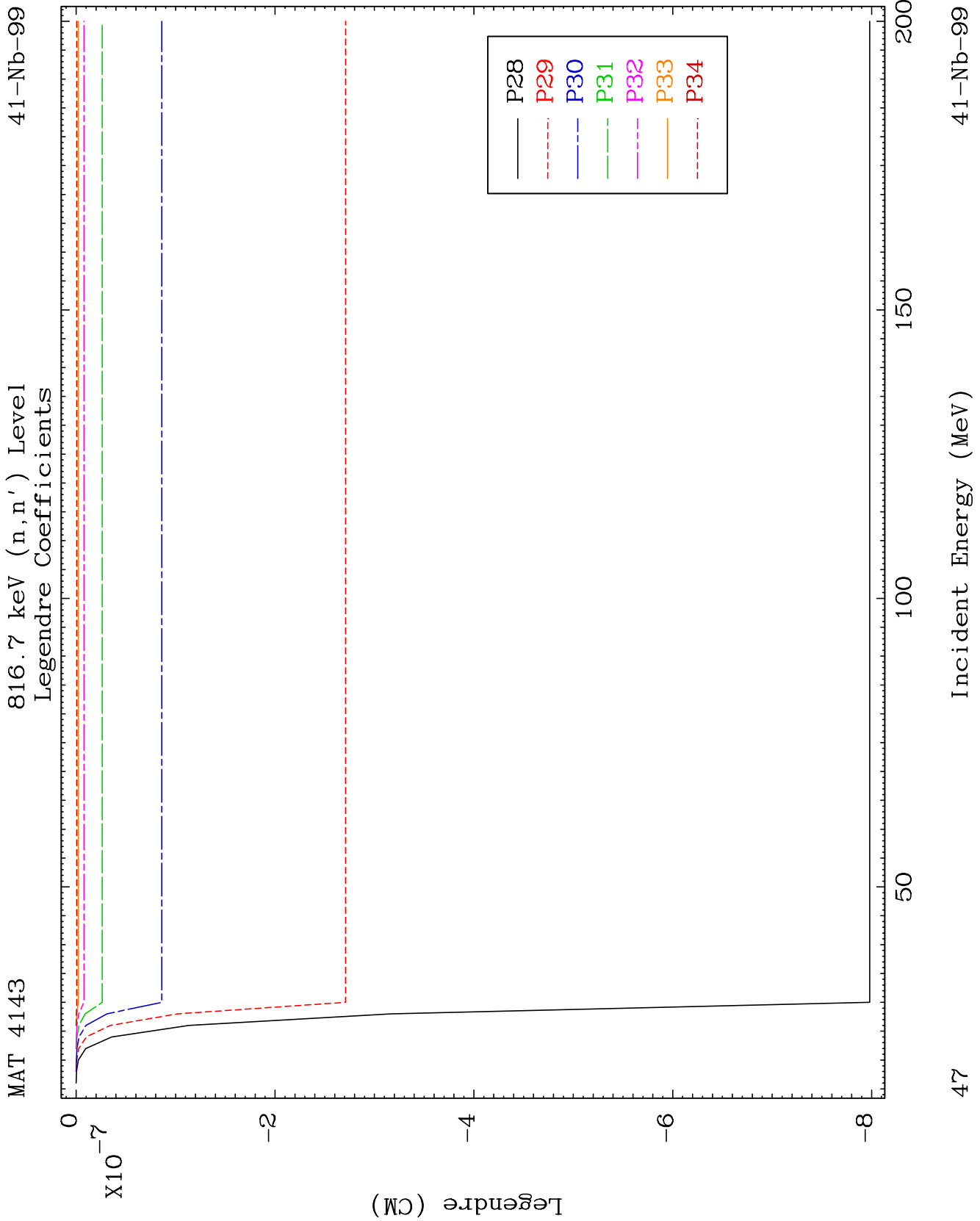


41-Nb-99

Incident Energy (MeV)

45



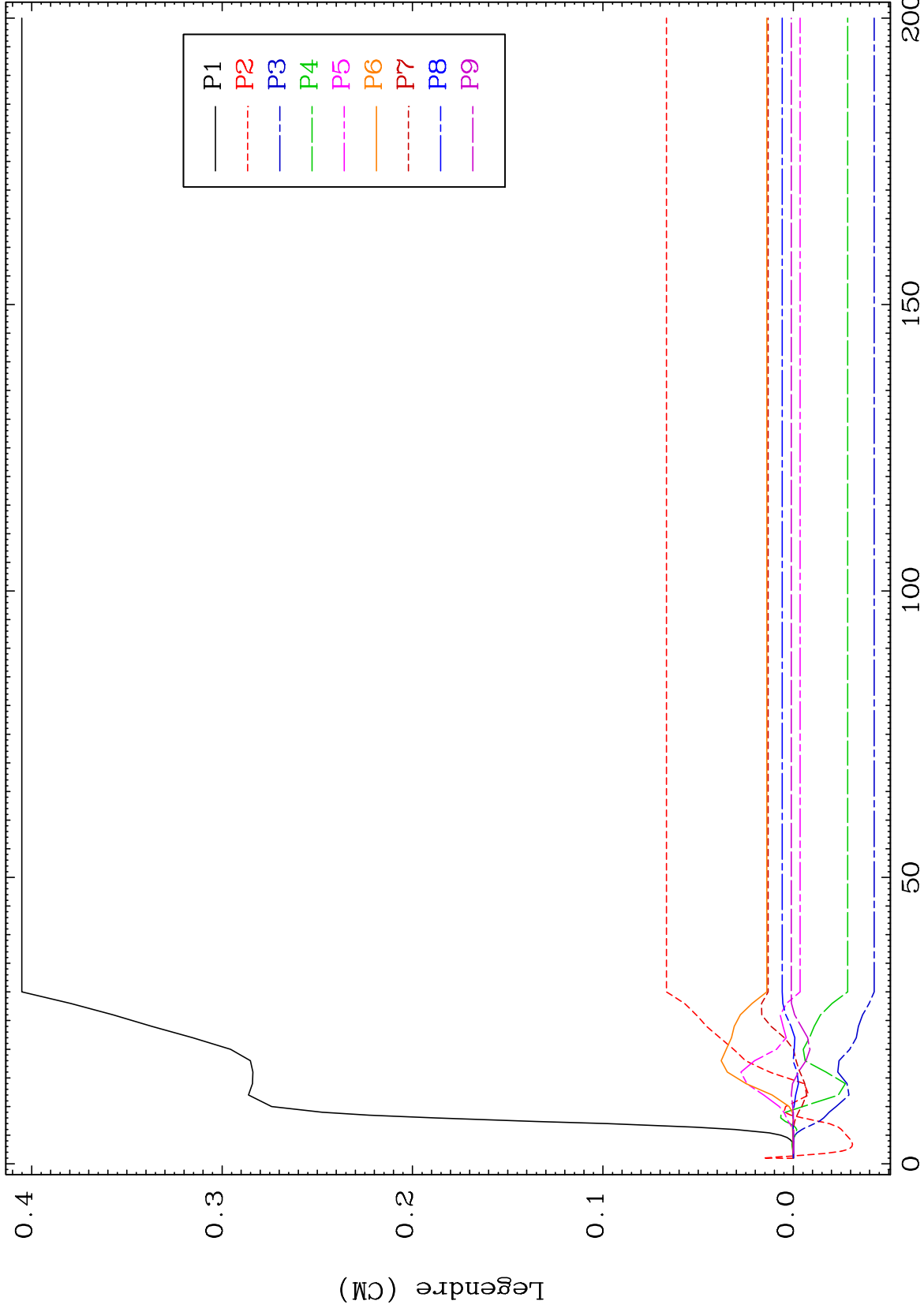




MAT 4143

930.9 keV (n,n') Level  
Legendre Coefficients

41-Nb-99



48

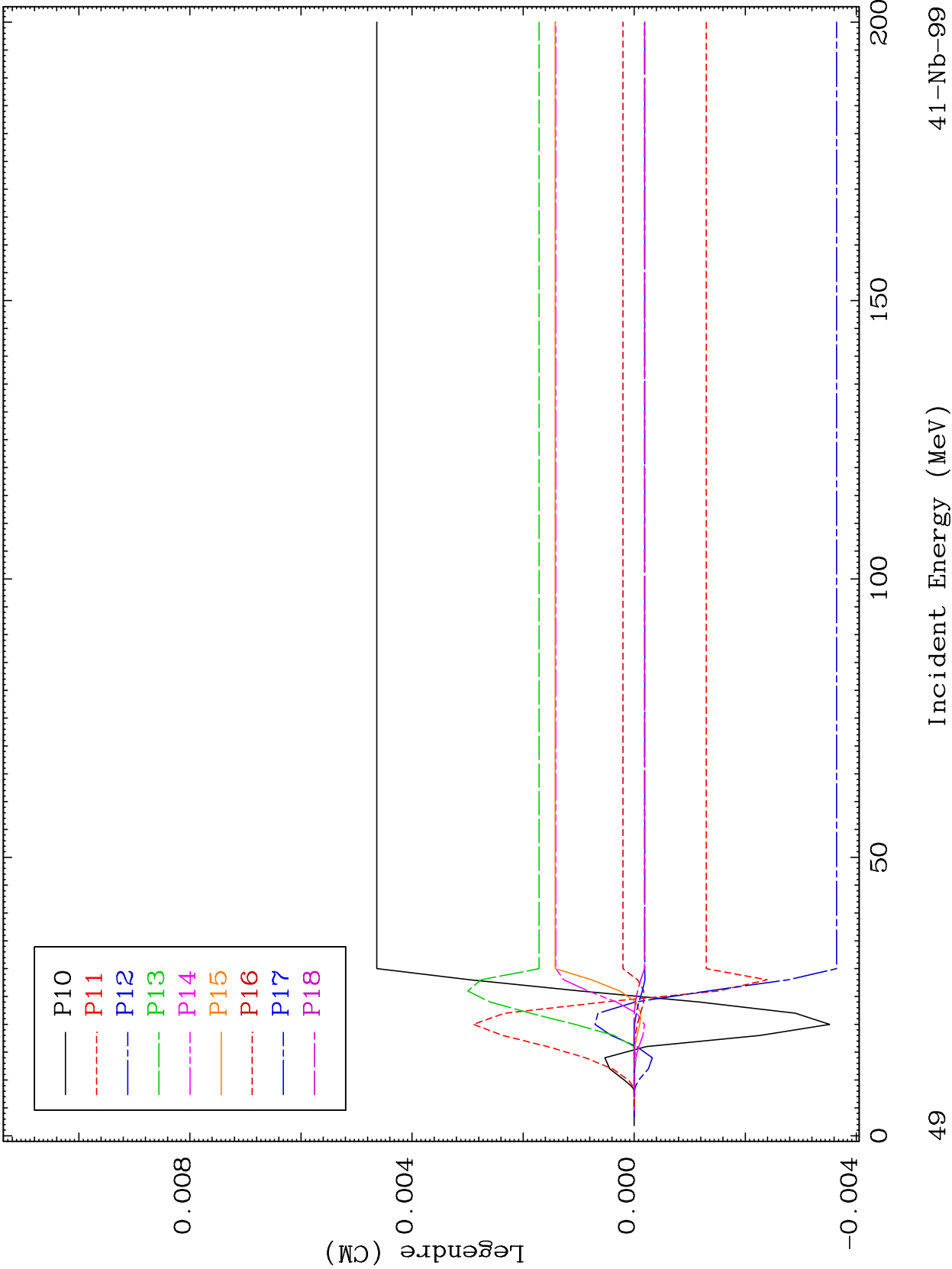
Incident Energy (MeV)

41-Nb-99

MAT 4143

930.9 keV (n,n') Level  
Legendre Coefficients

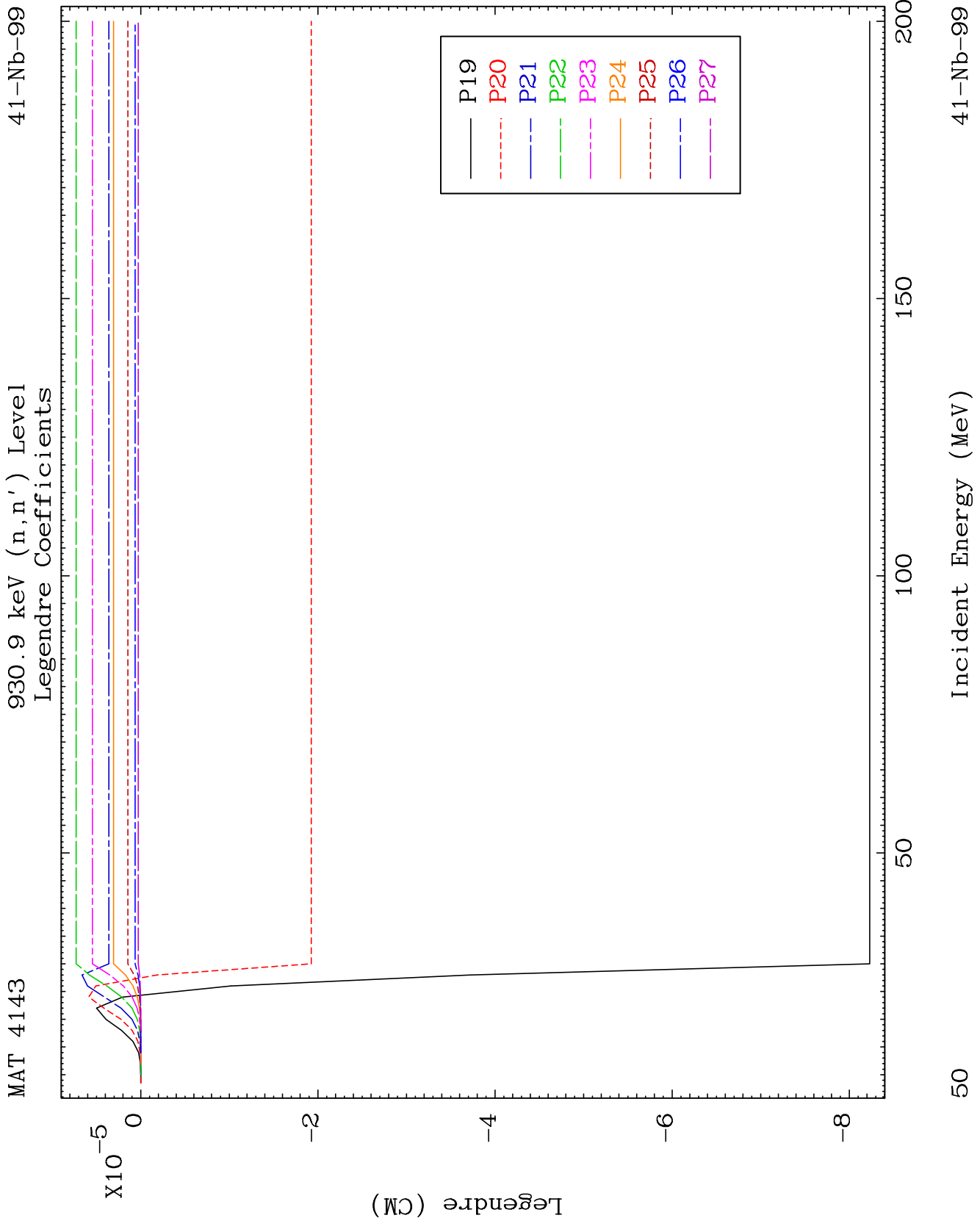
41-Nb-99



49

Incident Energy (MeV)

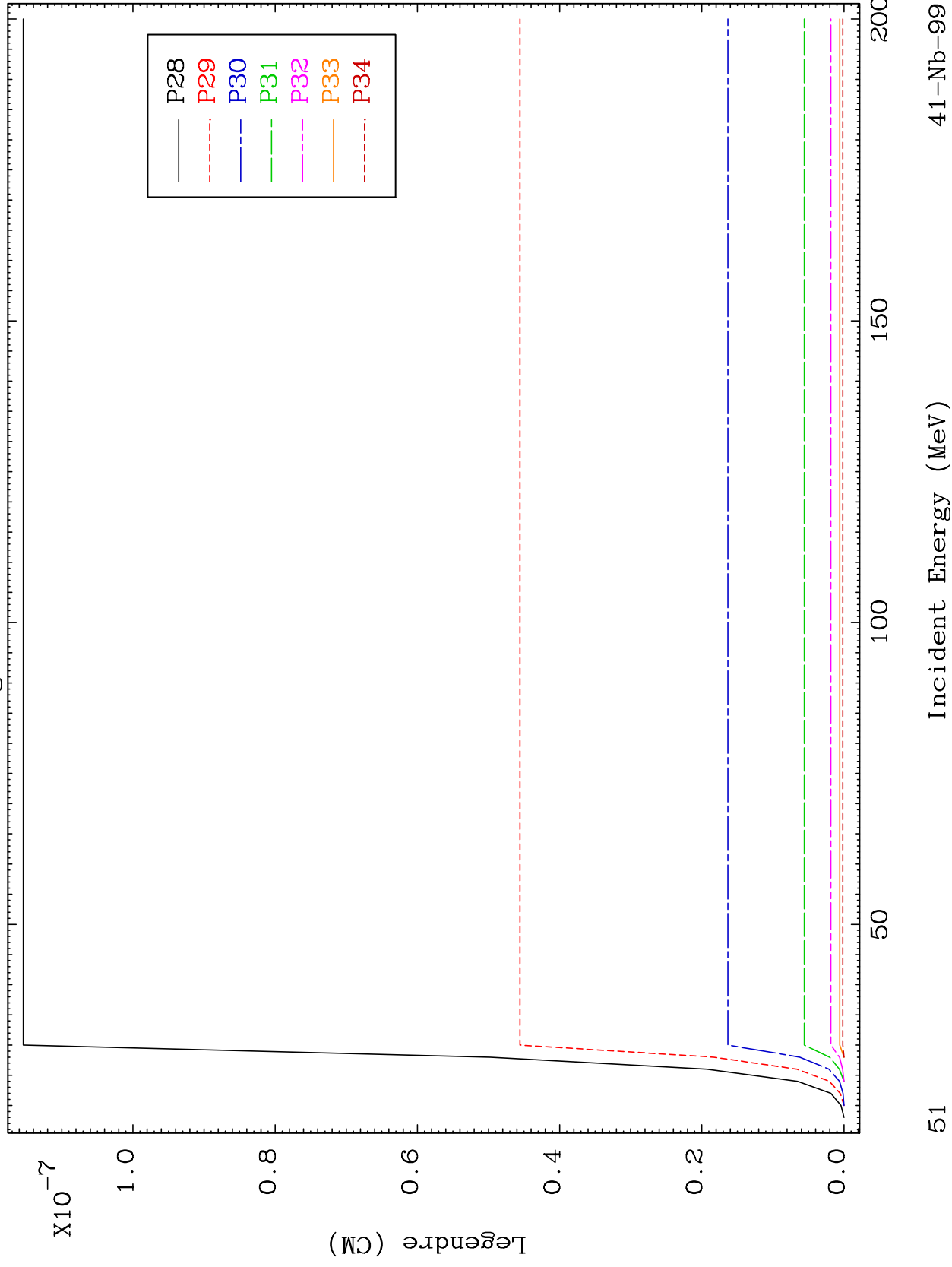
41-Nb-99



MAT 4143

930.9 keV (n,n') Level  
Legendre Coefficients

41-Nb-99



51

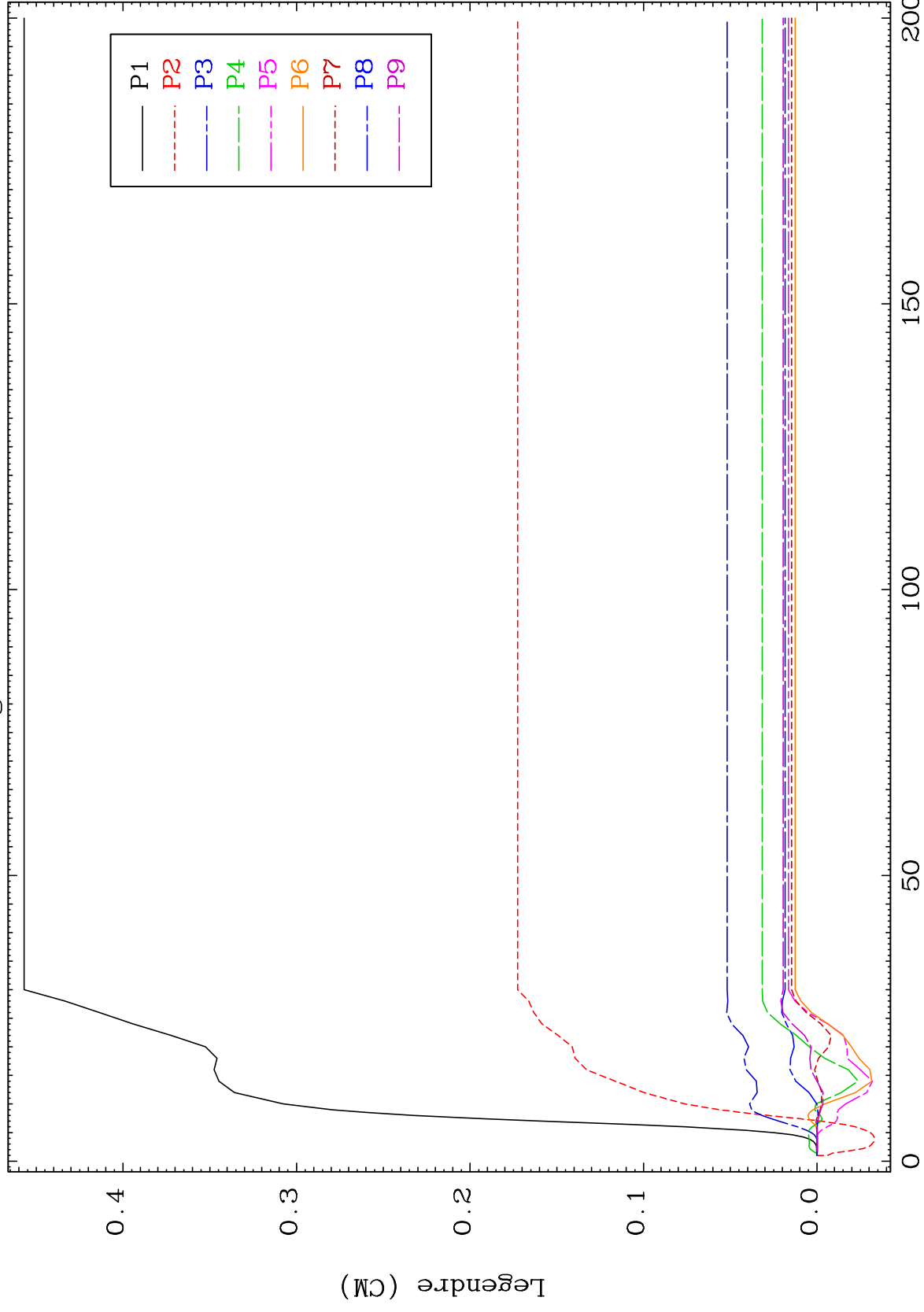
Incident Energy (MeV)

41-Nb-99

MAT 4143

959.3 keV (n,n') Level  
Legendre Coefficients

41-Nb-99



52

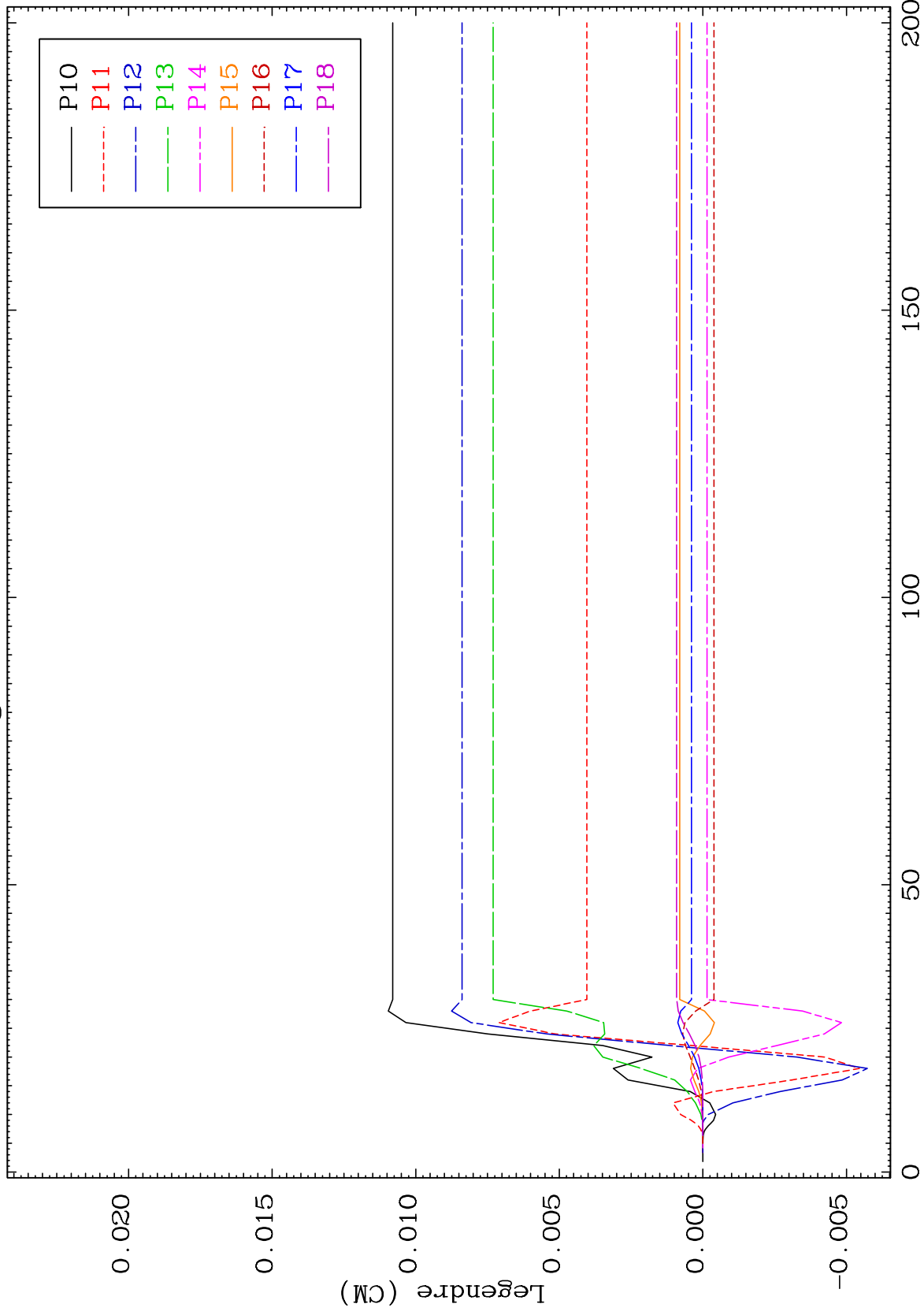
Incident Energy (MeV)

41-Nb-99

MAT 4143

959.3 keV (n,n') Level  
Legendre Coefficients

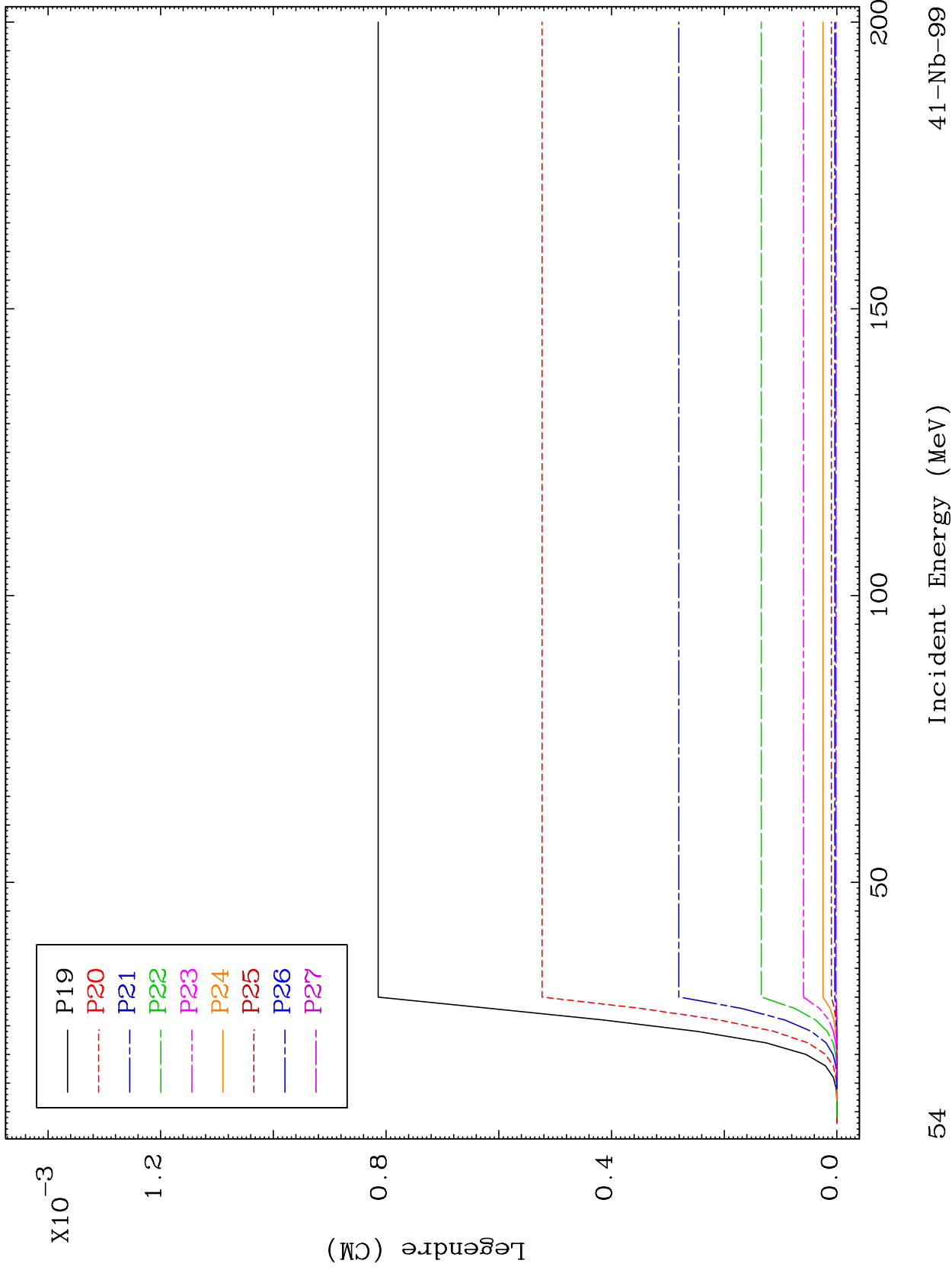
41-Nb-99



53

Incident Energy (MeV)

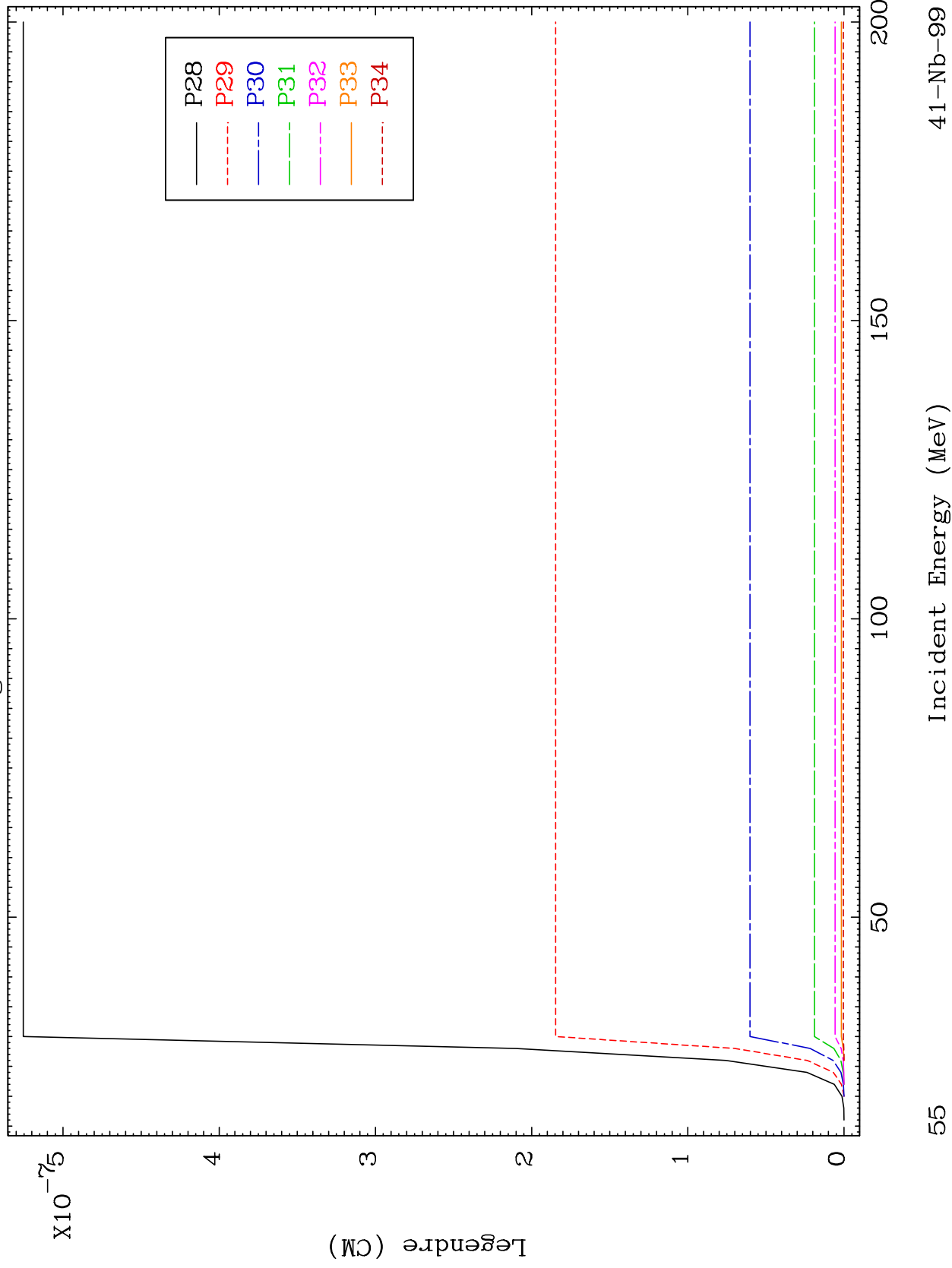
41-Nb-99



MAT 4143

959.3 keV (n,n') Level  
Legendre Coefficients

41-Nb-99

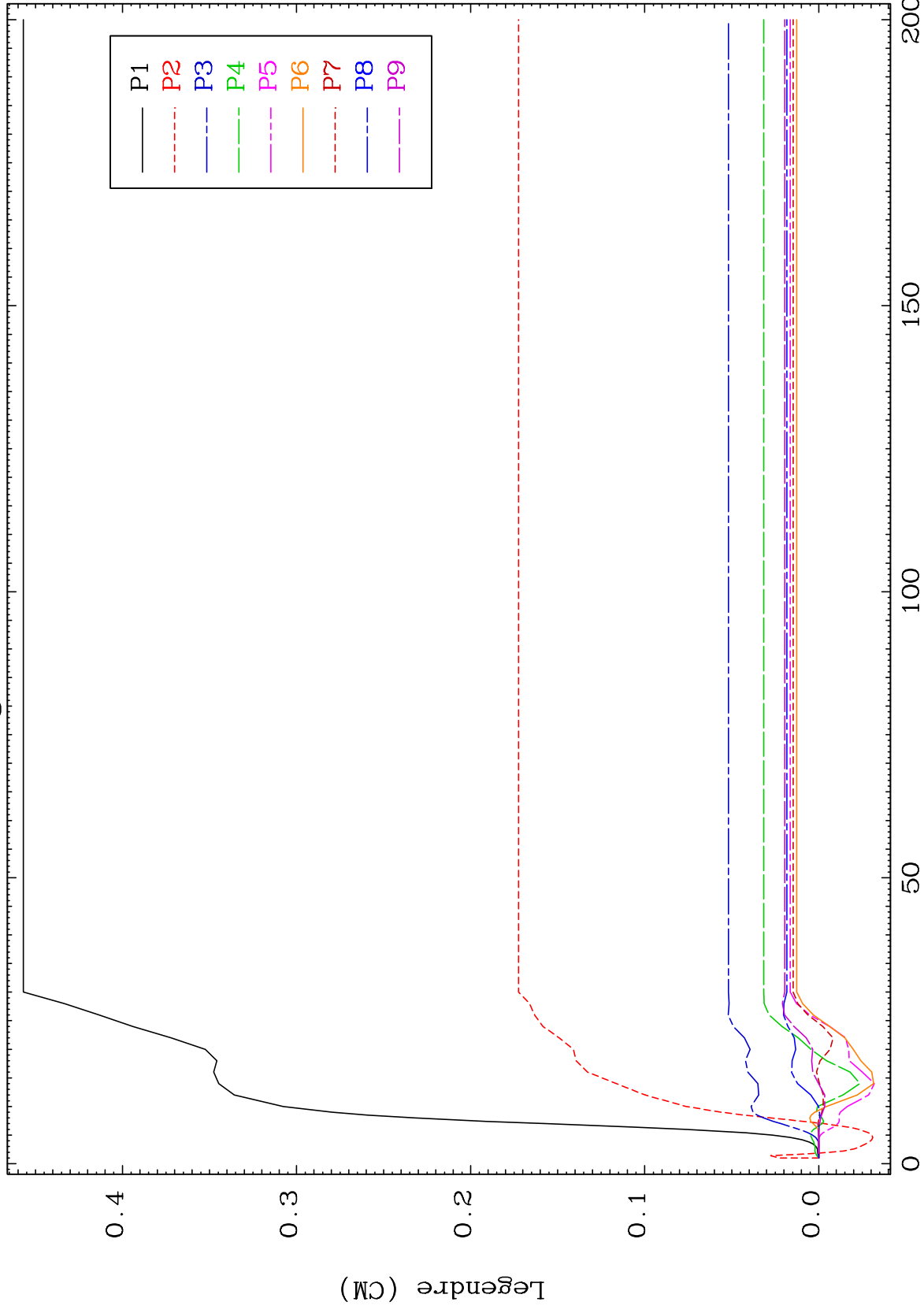




MAT 4143

970.0 keV (n,n') Level  
Legendre Coefficients

41-Nb-99



56

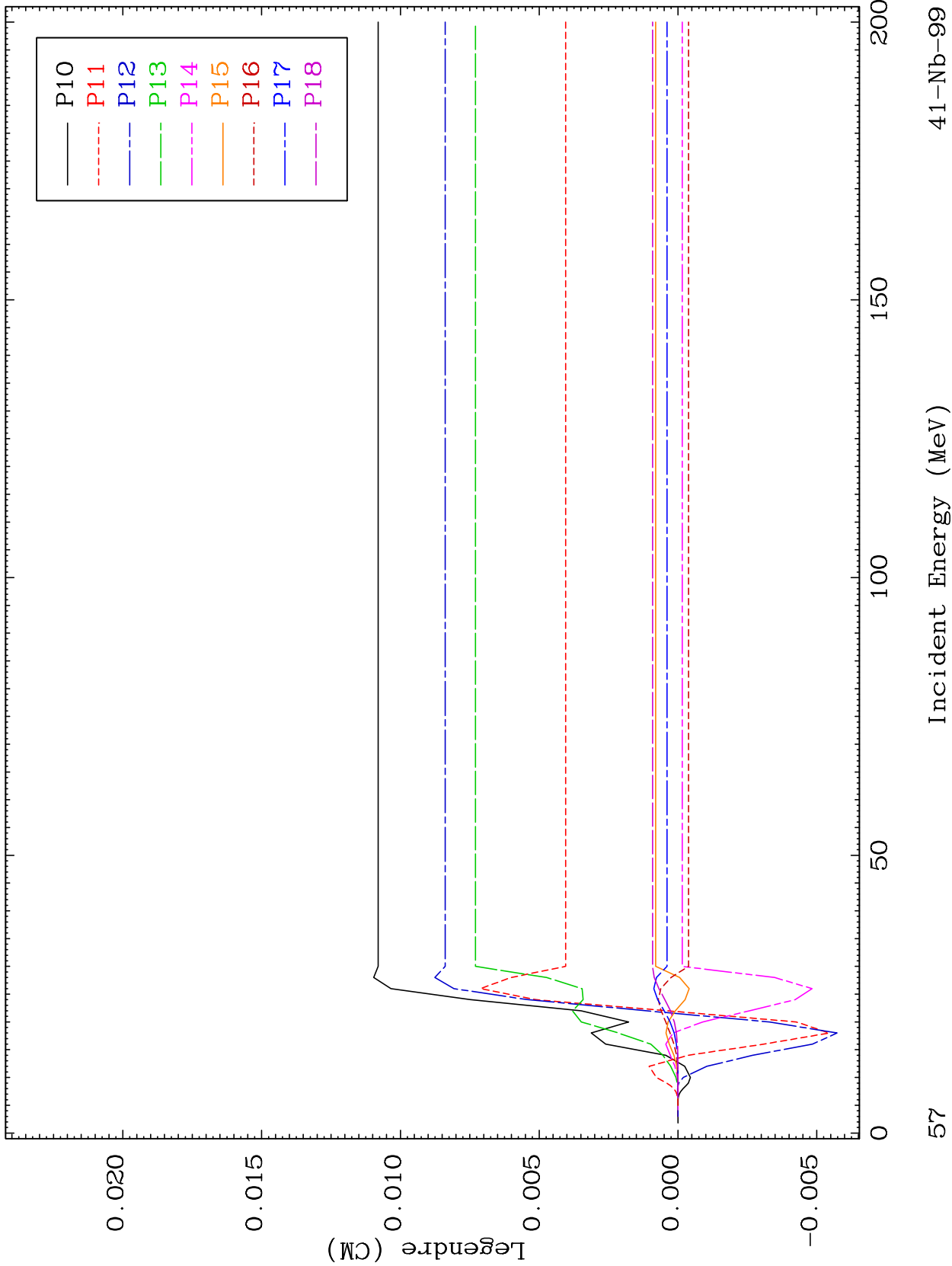
Incident Energy (MeV)

41-Nb-99

MAT 4143

970.0 keV (n,n') Level  
Legendre Coefficients

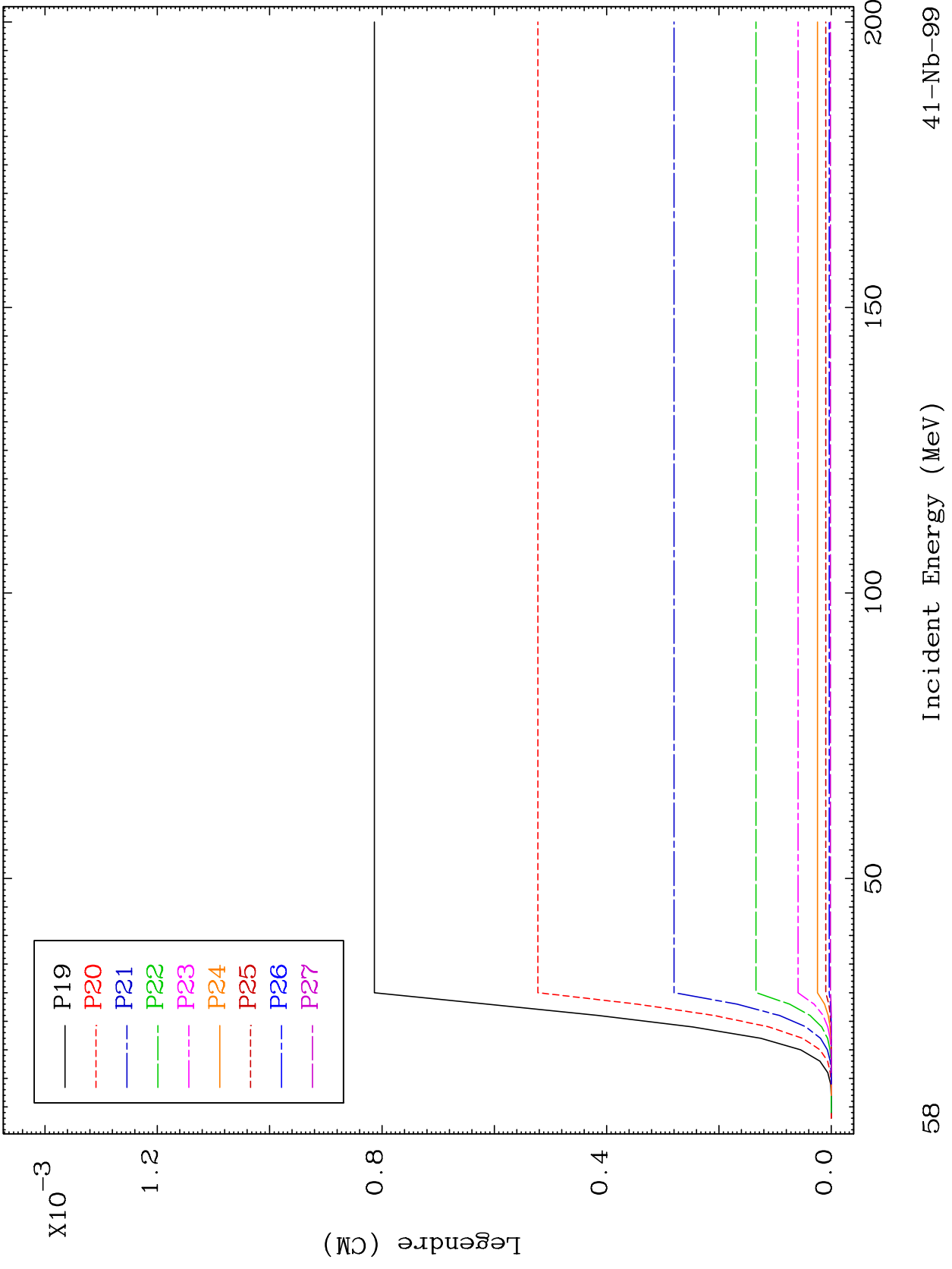
41-Nb-99



41-Nb-99

Incident Energy (MeV)

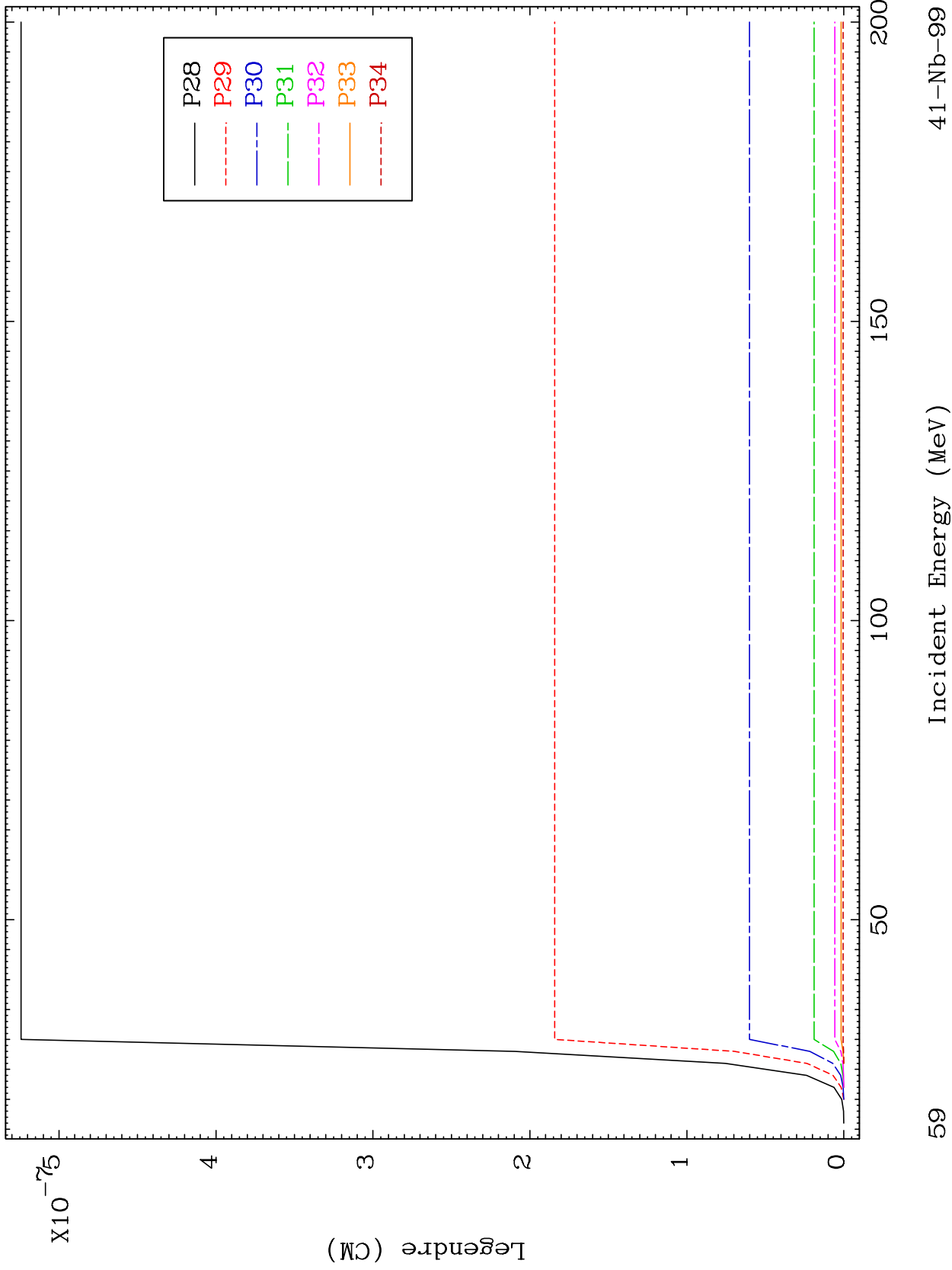
57



MAT 4143

970.0 keV (n,n') Level  
Legendre Coefficients

41-Nb-99



59

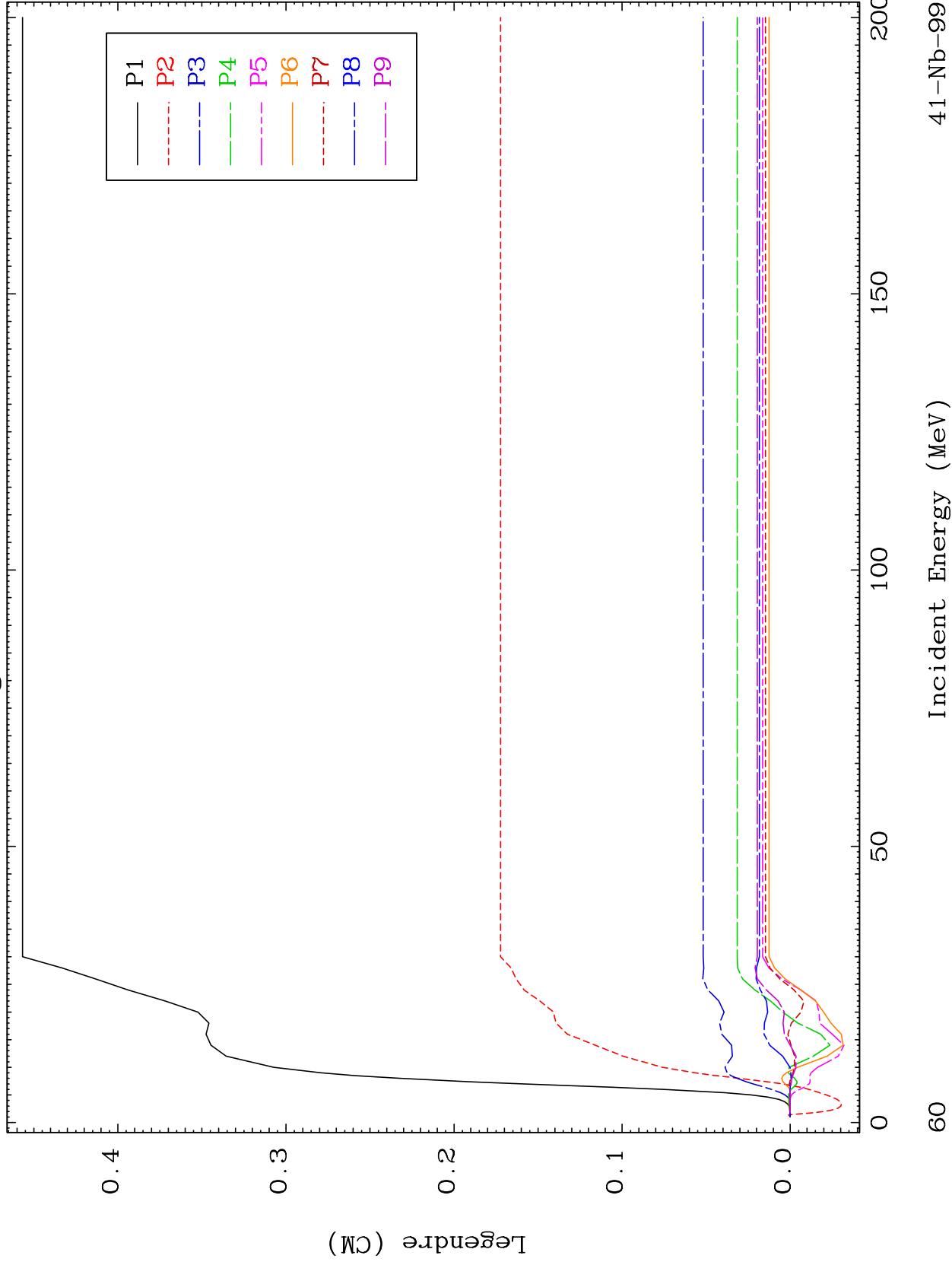
Incident Energy (MeV)

41-Nb-99

MAT 4143

1.015 MeV (n,n') Level  
Legendre Coefficients

41-Nb-99

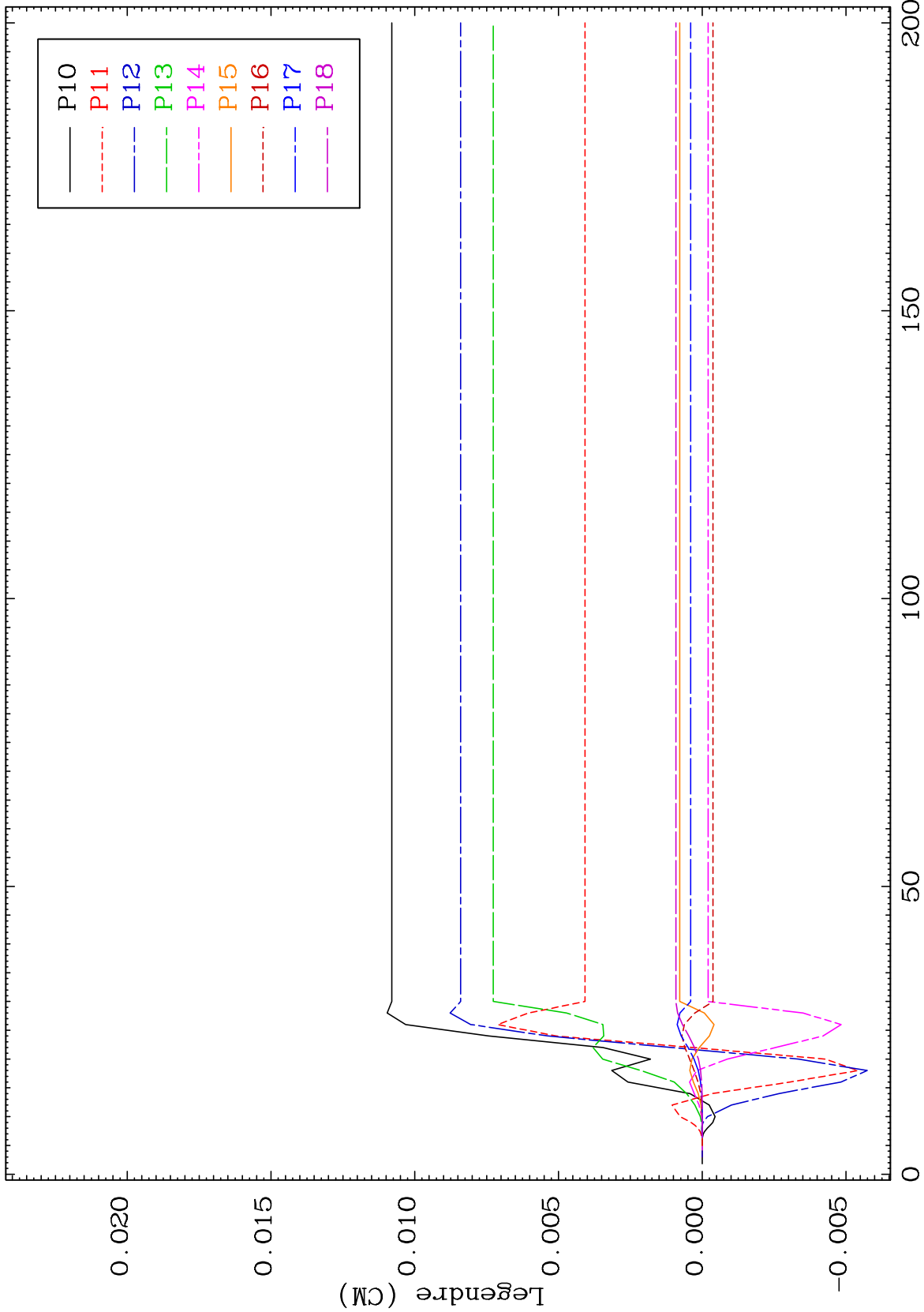


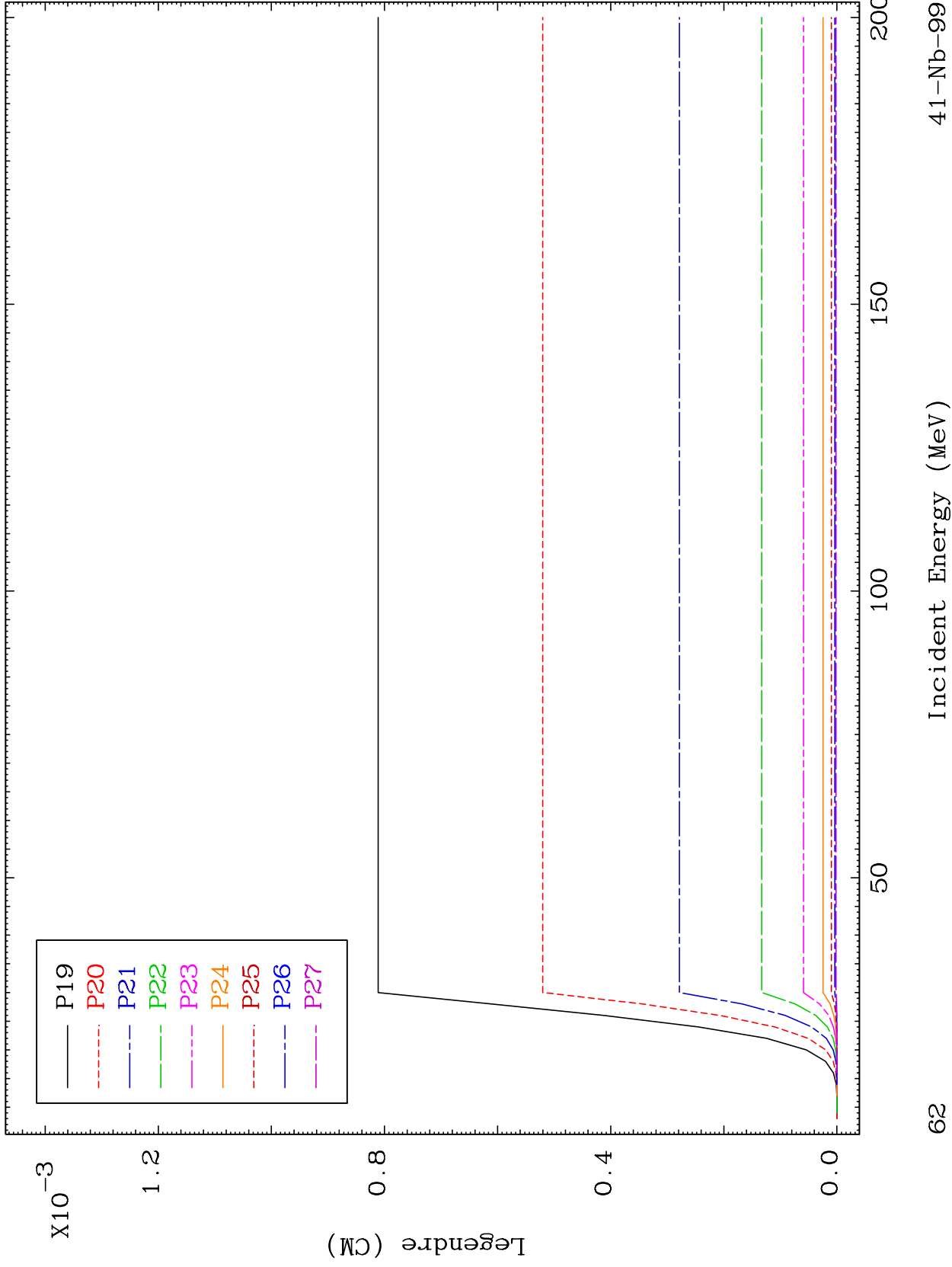
41-Nb-99

MAT 4143

1.015 MeV (n,n') Level  
Legendre Coefficients

41-Nb-99

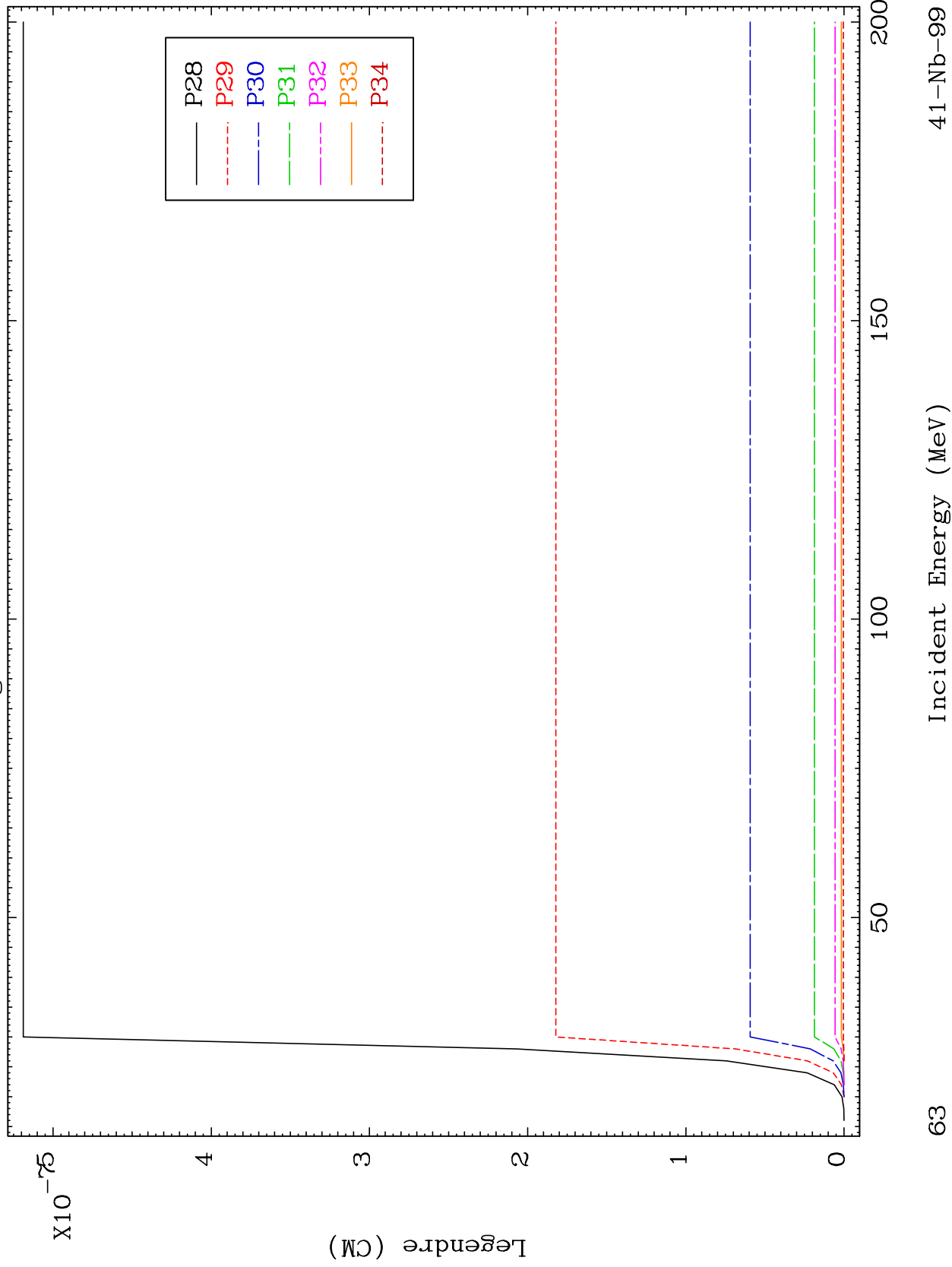




MAT 4143

1.015 MeV (n,n') Level  
Legendre Coefficients

41-Nb-99



63

Incident Energy (MeV)

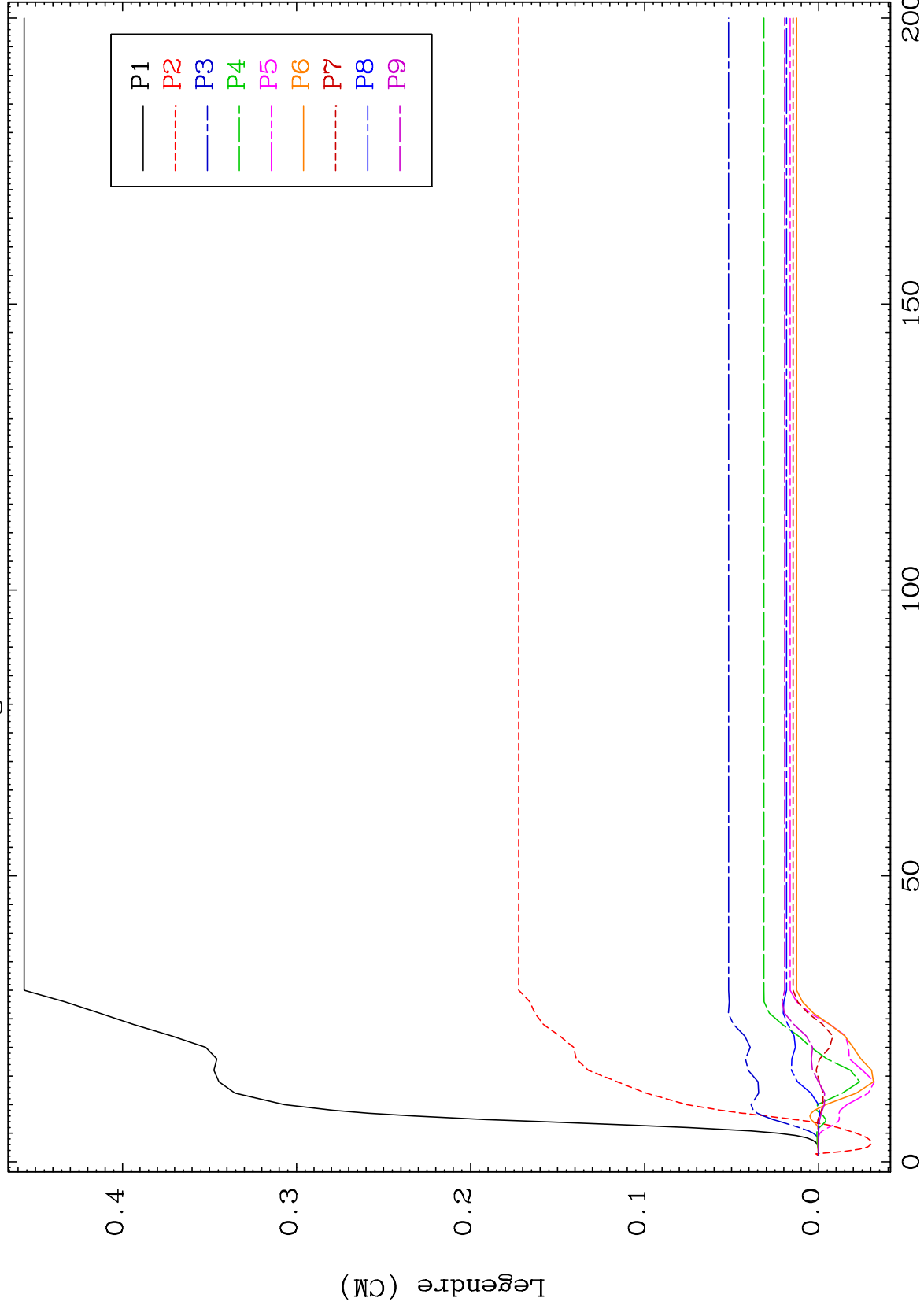
41-Nb-99



MAT 4143

1.044 MeV (n,n') Level  
Legendre Coefficients

41-Nb-99



64

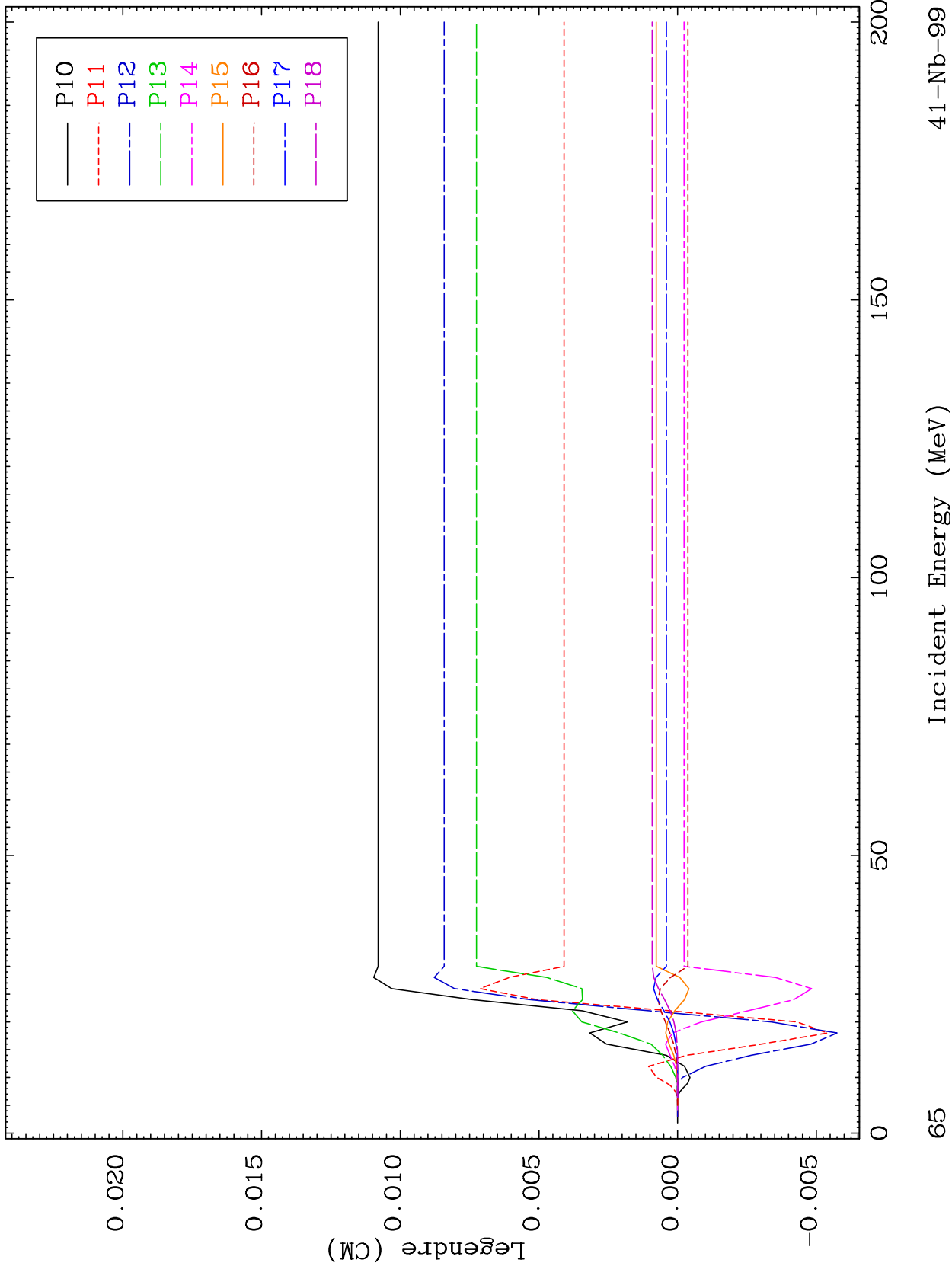
Incident Energy (MeV)

41-Nb-99

MAT 4143

1.044 MeV (n,n') Level  
Legendre Coefficients

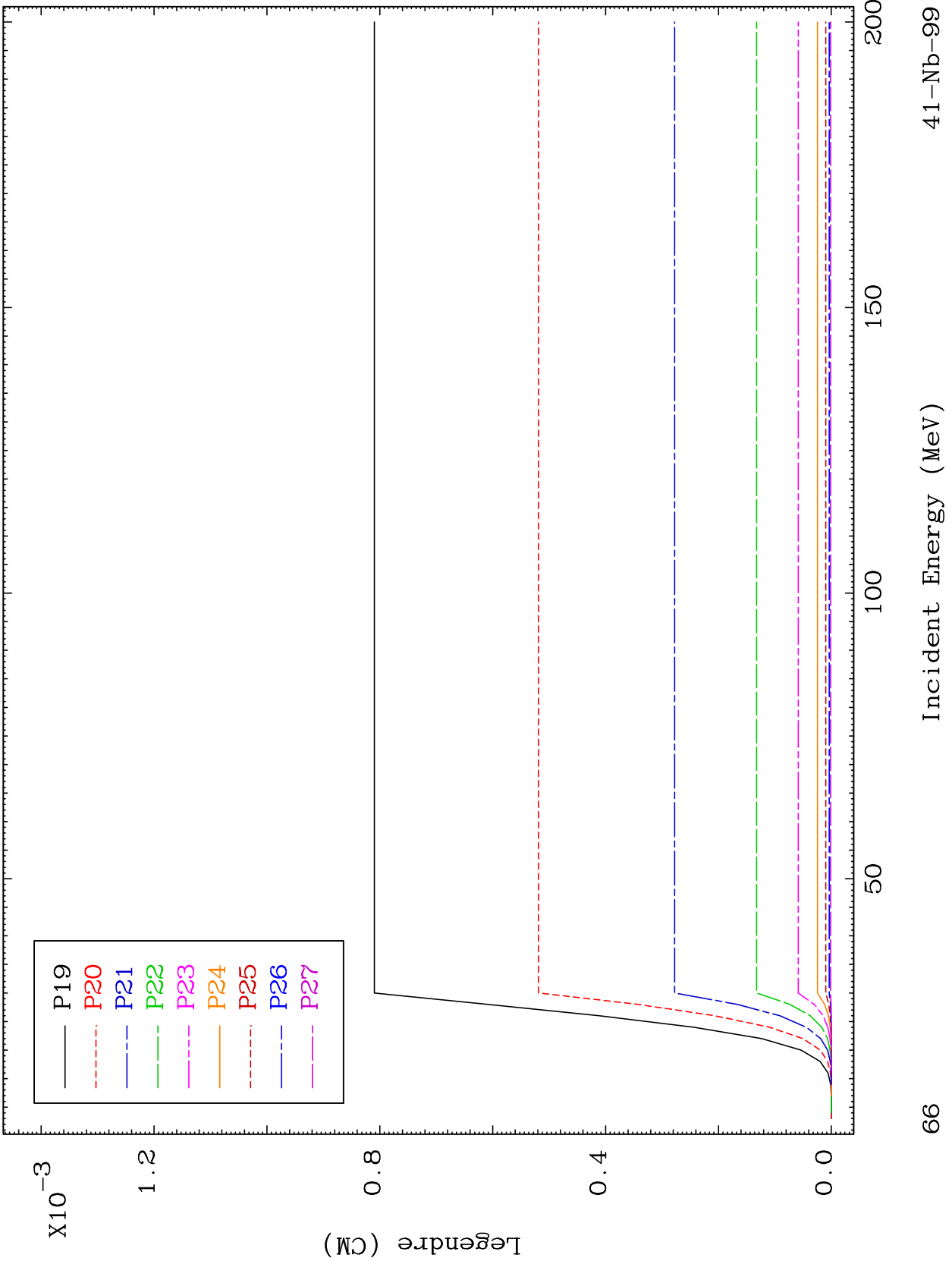
41-Nb-99



41-Nb-99

Incident Energy (MeV)

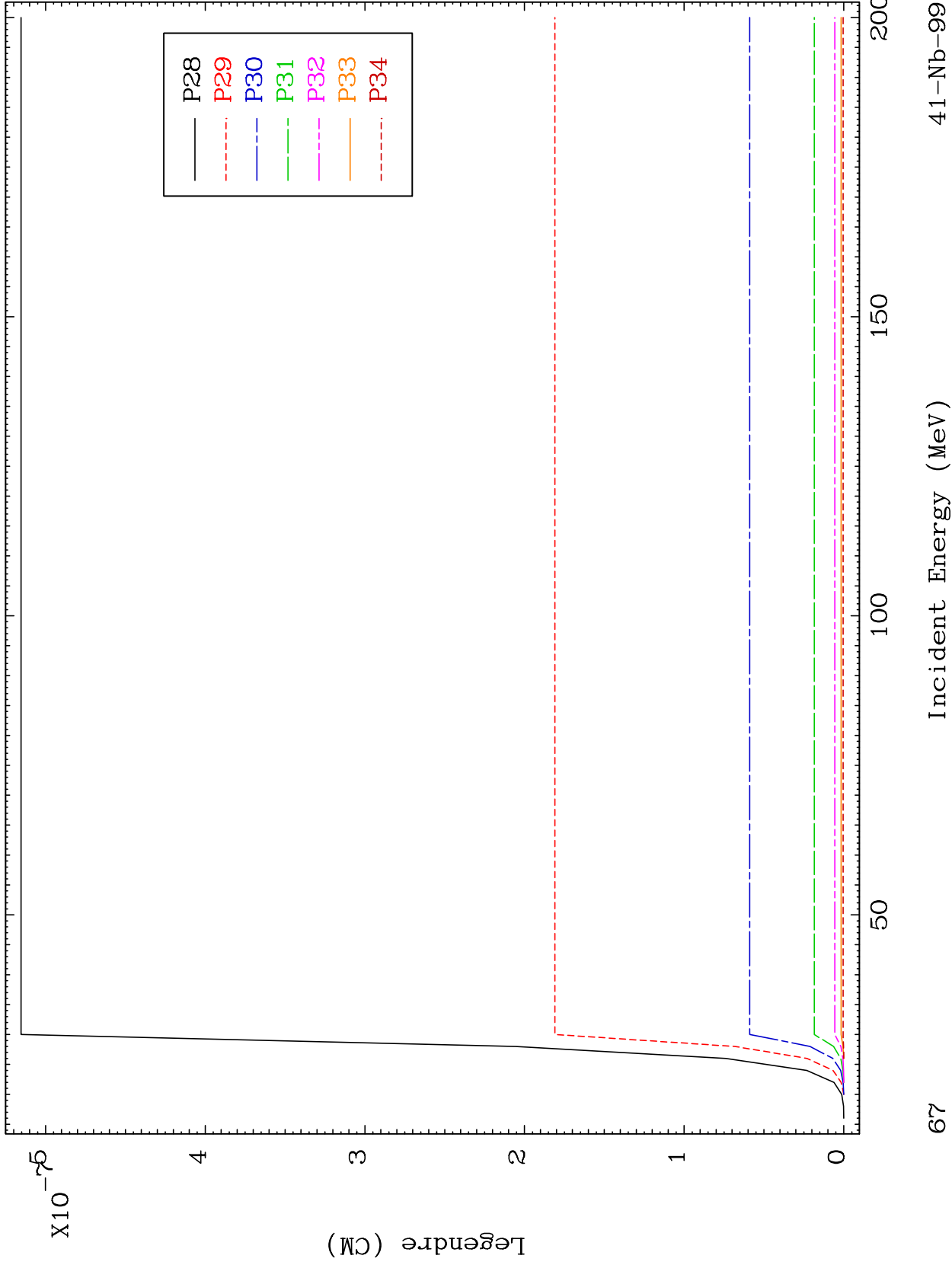
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MAT 4143

1.044 MeV (n,n') Level  
Legendre Coefficients

41-Nb-99

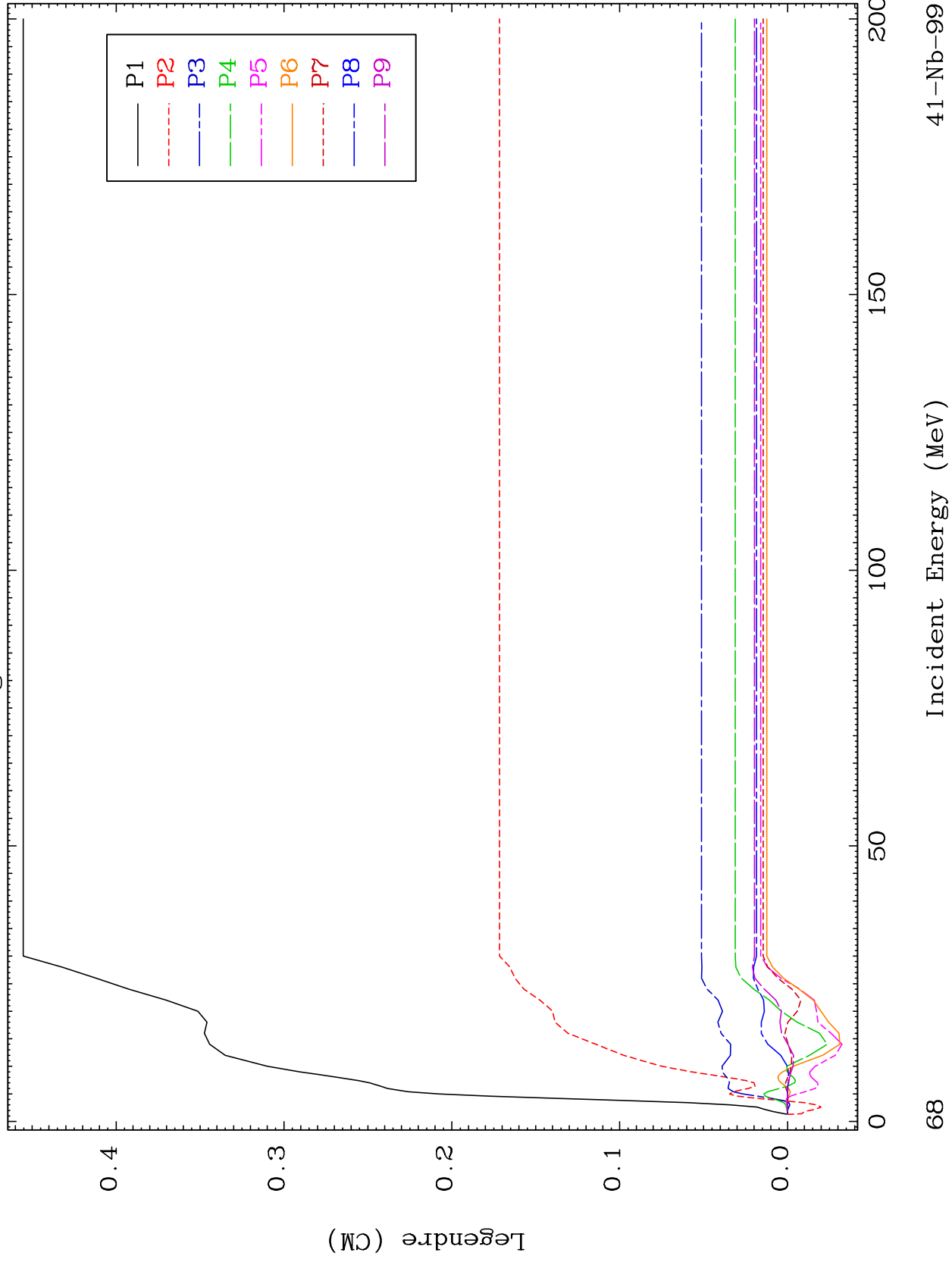


67

MAT 4143

1.264 MeV (n,n') Level  
Legendre Coefficients

41-Nb-99



41-Nb-99

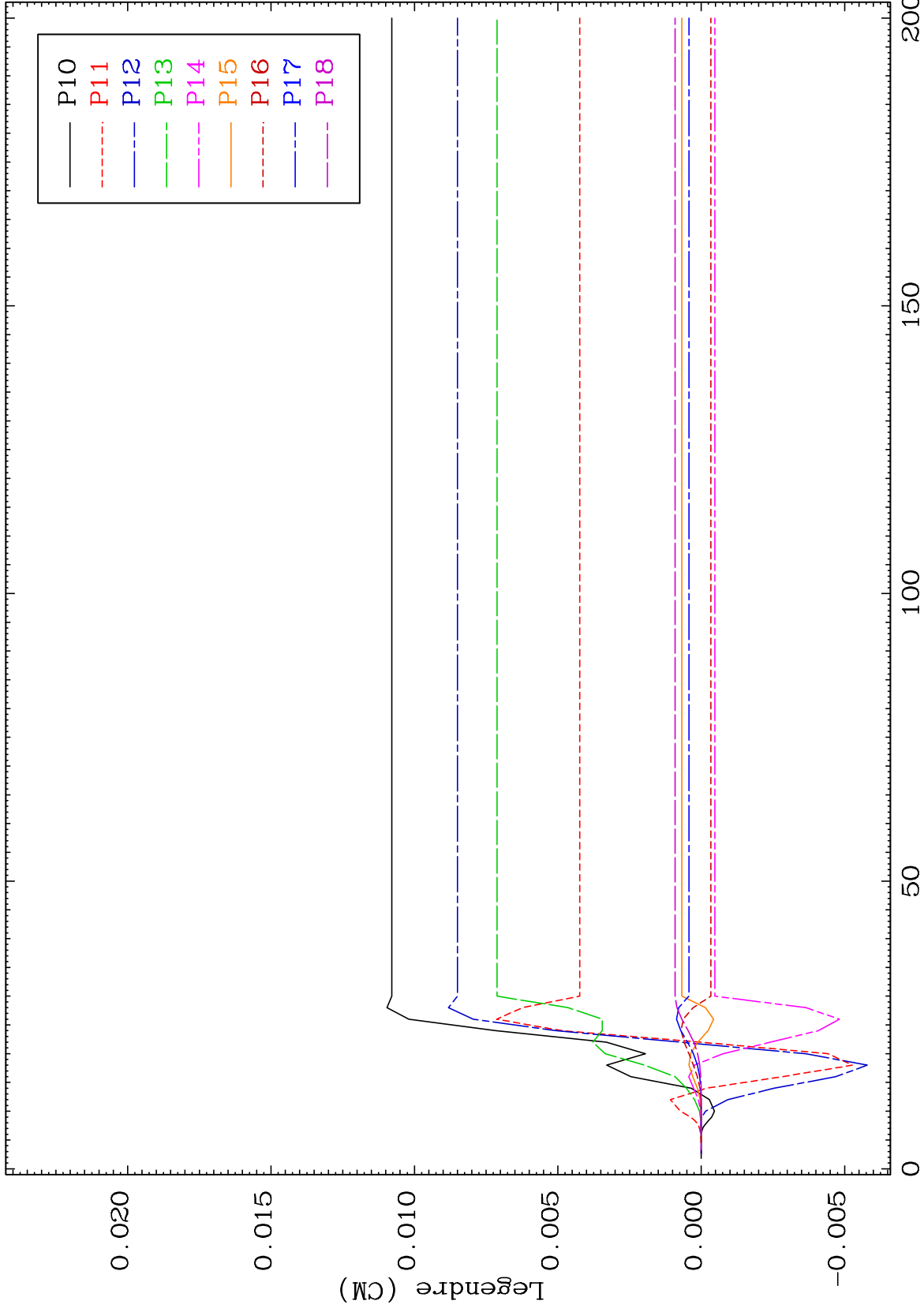
Incident Energy (MeV)

68

MAT 4143

1.264 MeV (n,n') Level  
Legendre Coefficients

41-Nb-99



69

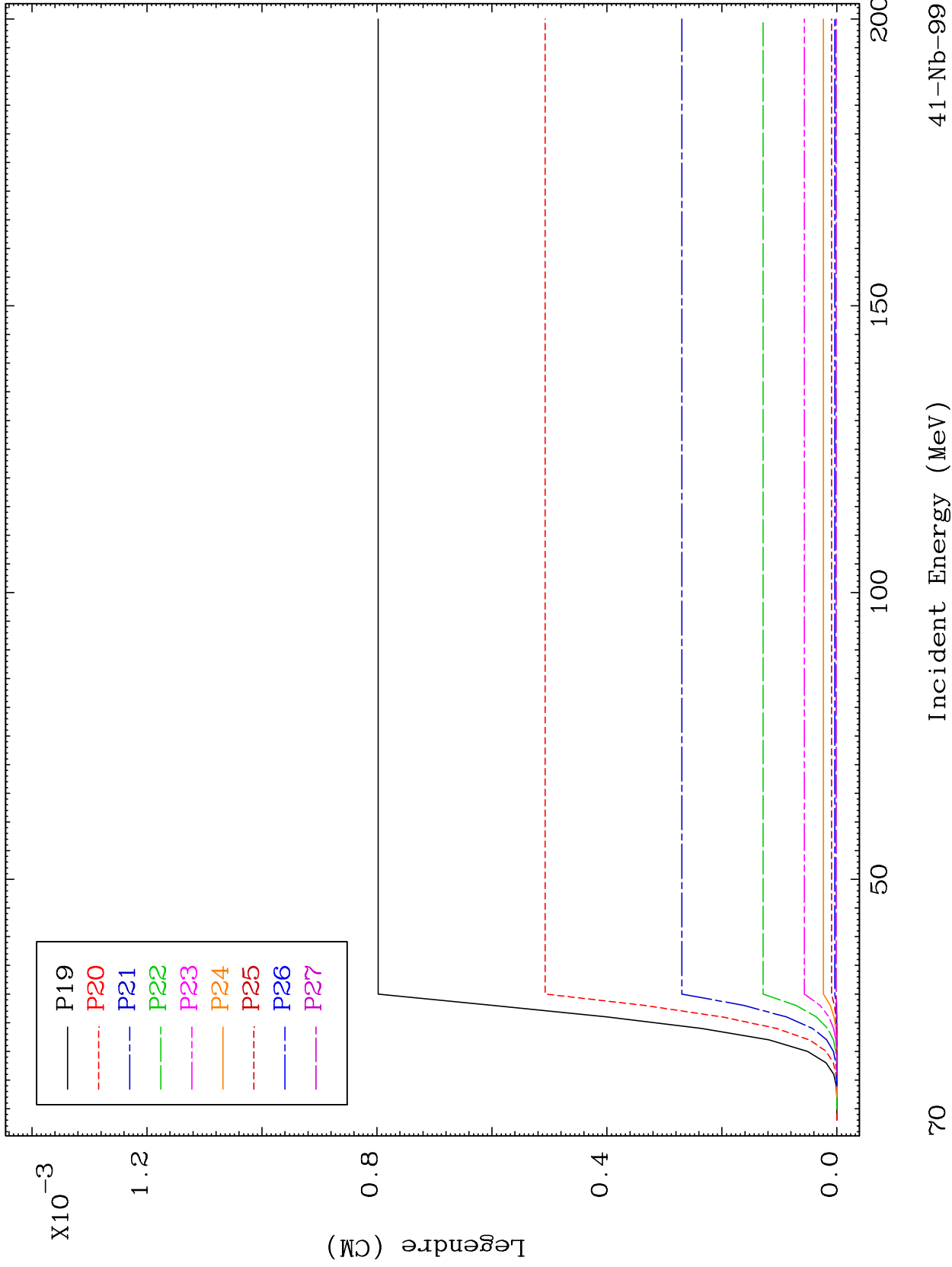
Incident Energy (MeV)

41-Nb-99

MAT 4143

1.264 MeV (n,n') Level  
Legendre Coefficients

41-Nb-99



70

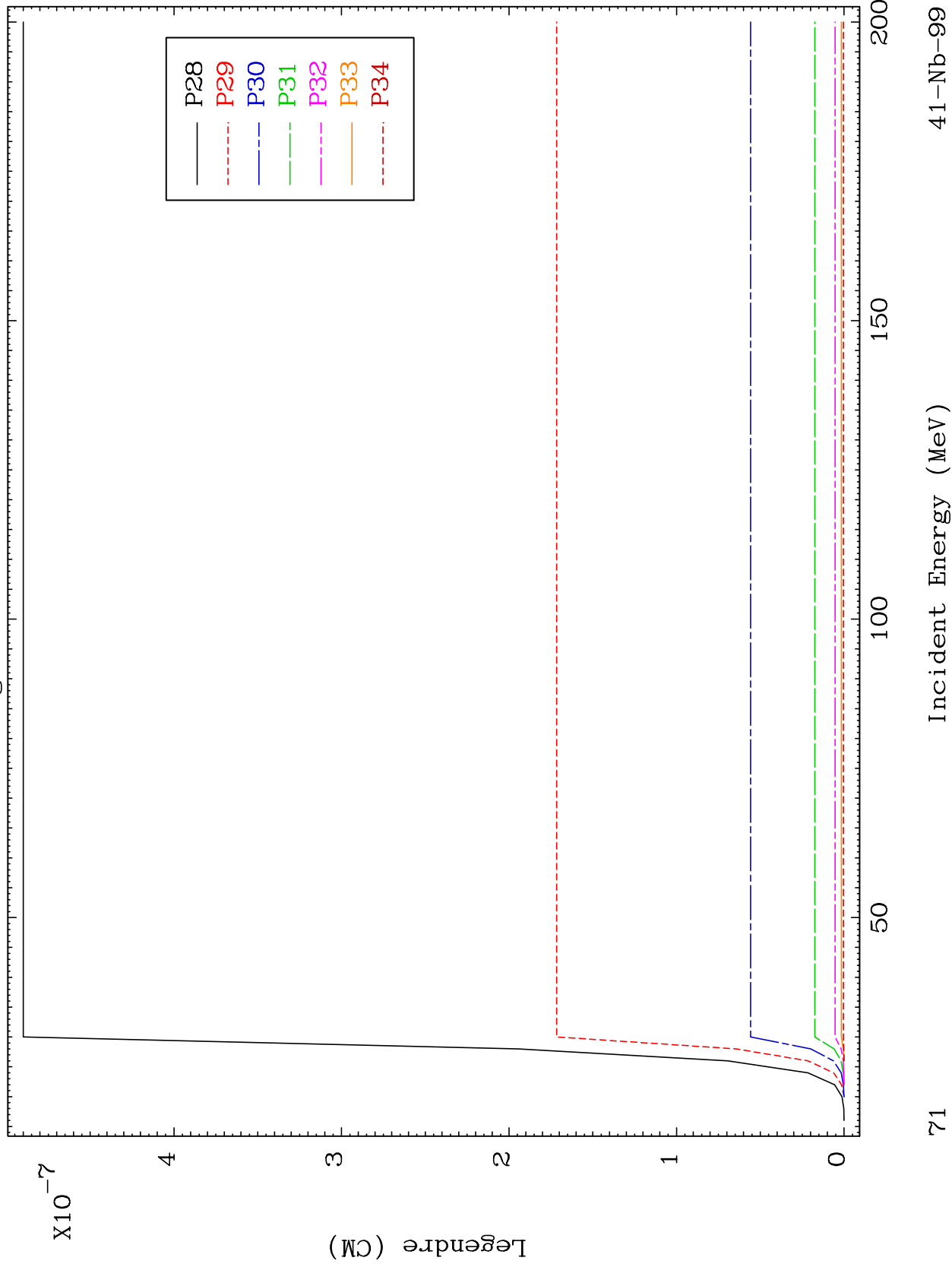
Incident Energy (MeV)

41-Nb-99

MAT 4143

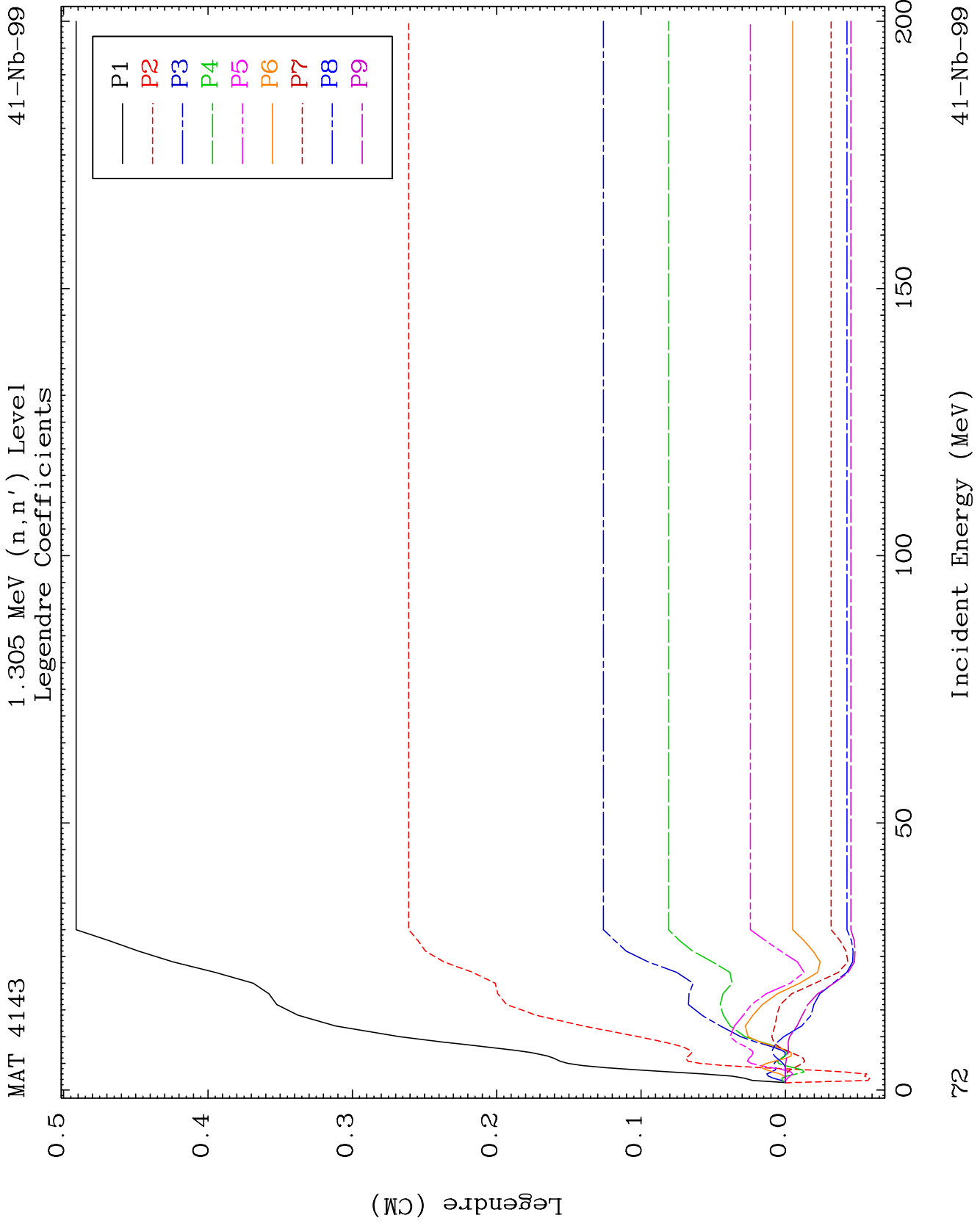
1.264 MeV (n, n') Level  
Legendre Coefficients

41-Nb-99



71

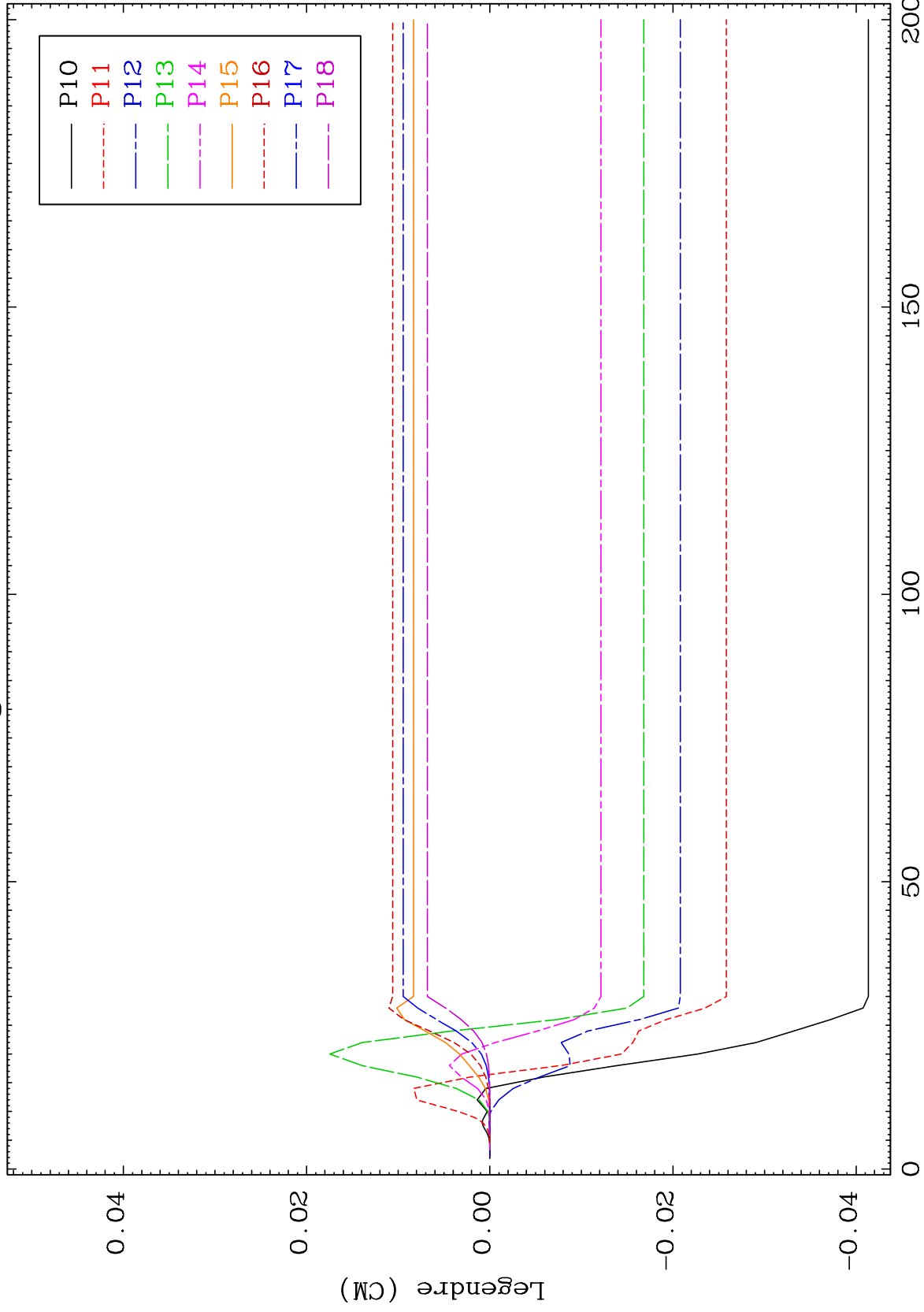




MAT 4143

1.305 MeV (n,n') Level  
Legendre Coefficients

41-Nb-99



73

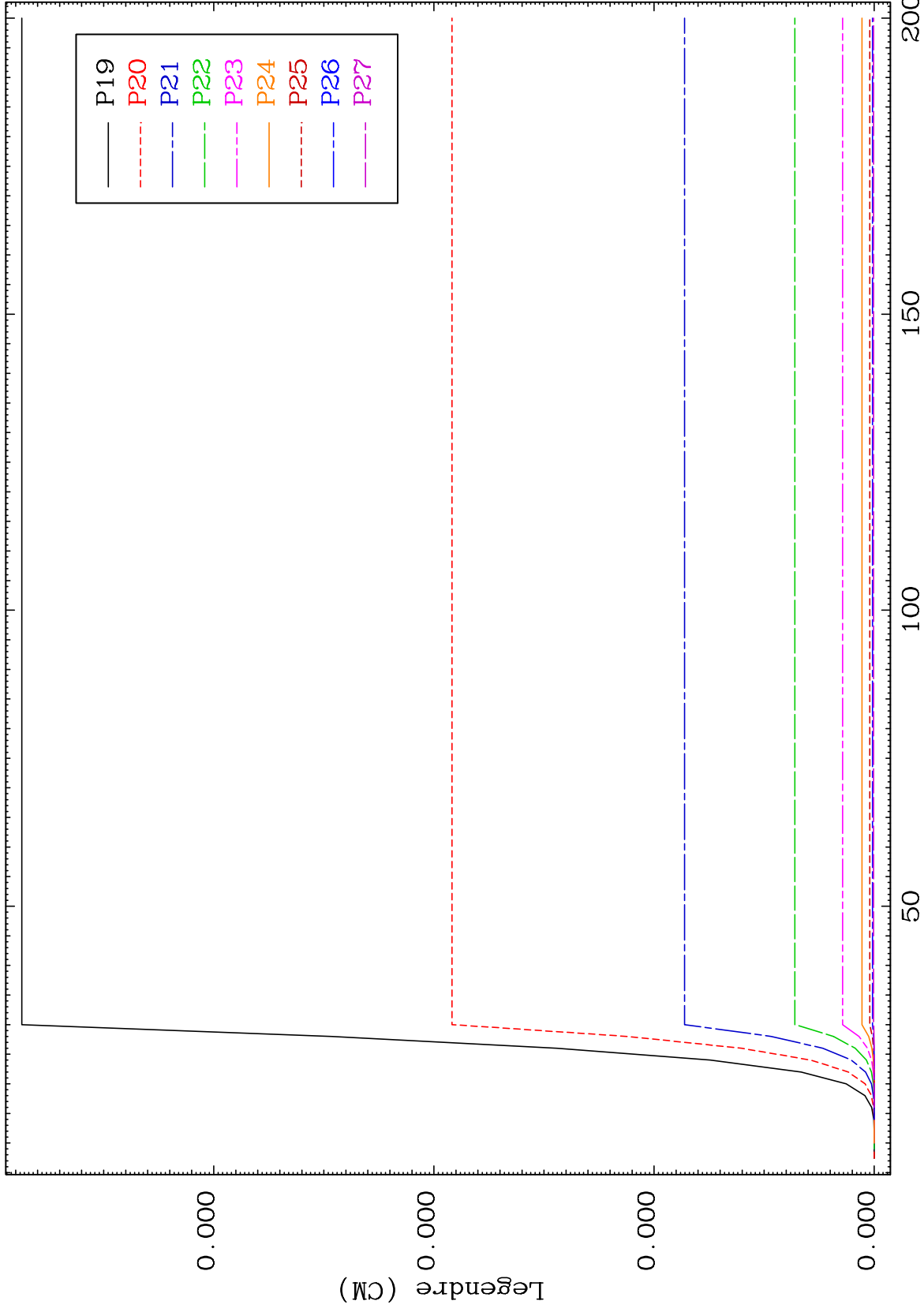
Incident Energy (MeV)

41-Nb-99

MAT 4143

1.305 MeV (n,n') Level  
Legendre Coefficients

41-Nb-99



74

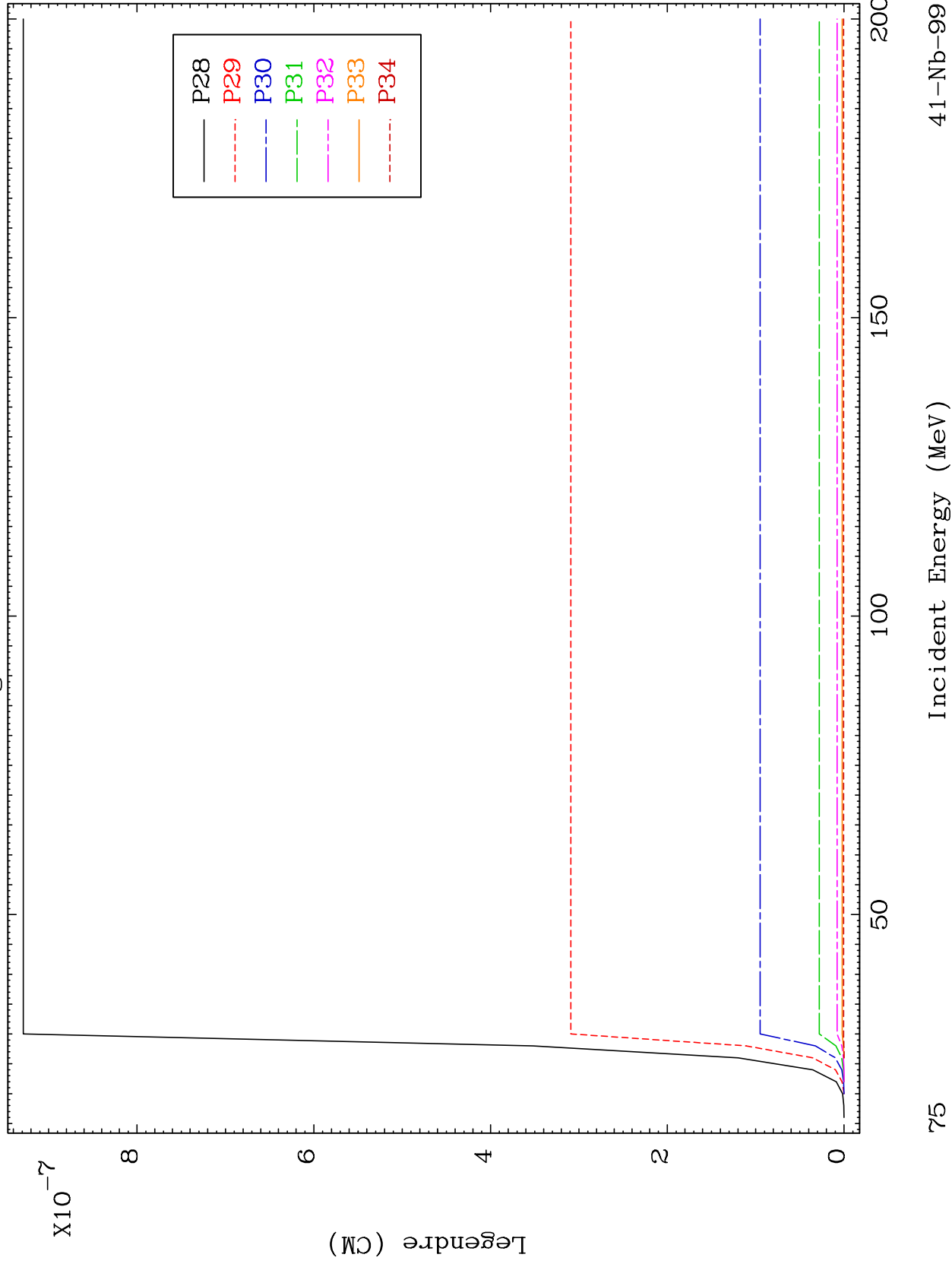
Incident Energy (MeV)

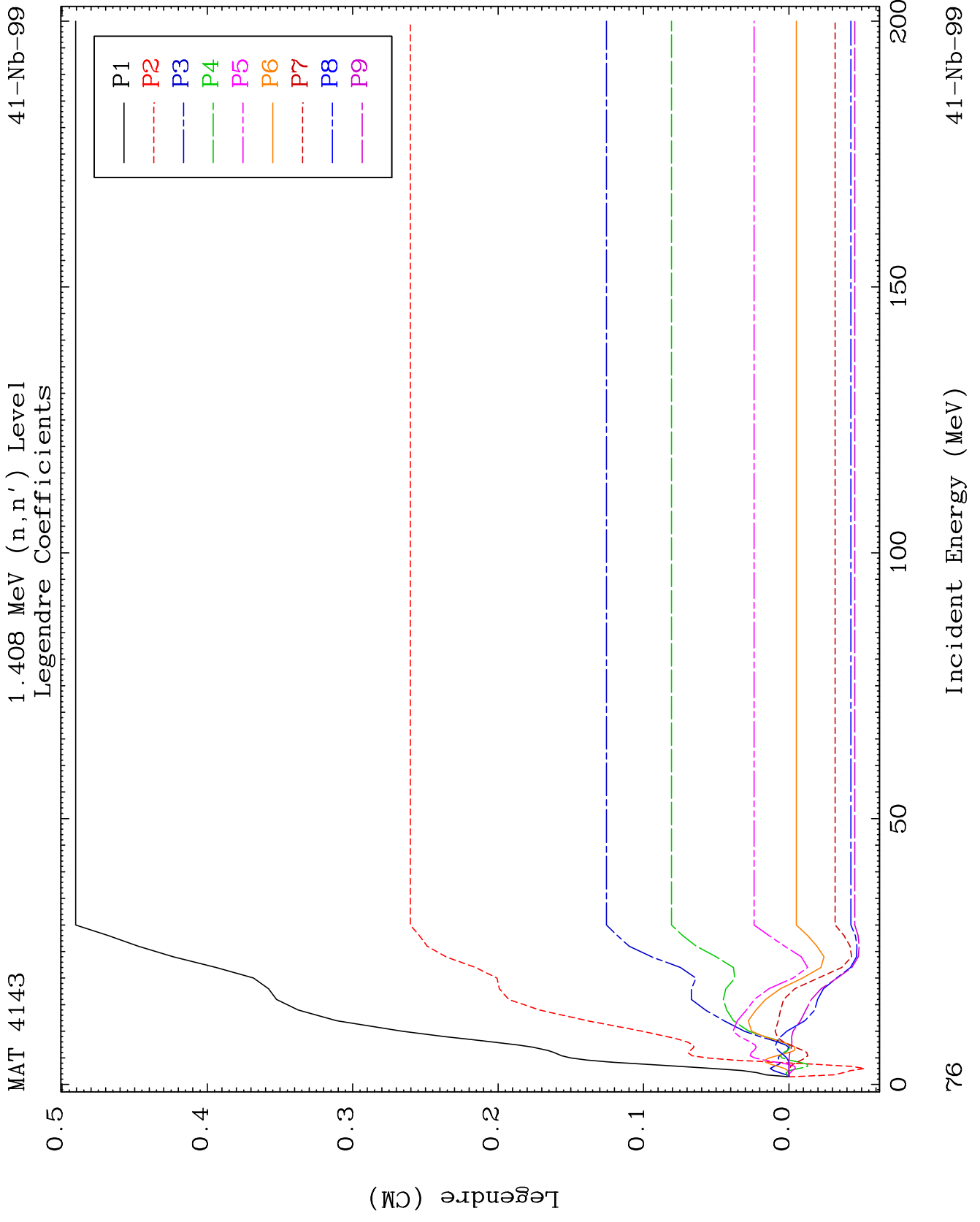
41-Nb-99

MAT 4143

1.305 MeV (n,n') Level  
Legendre Coefficients

41-Nb-99

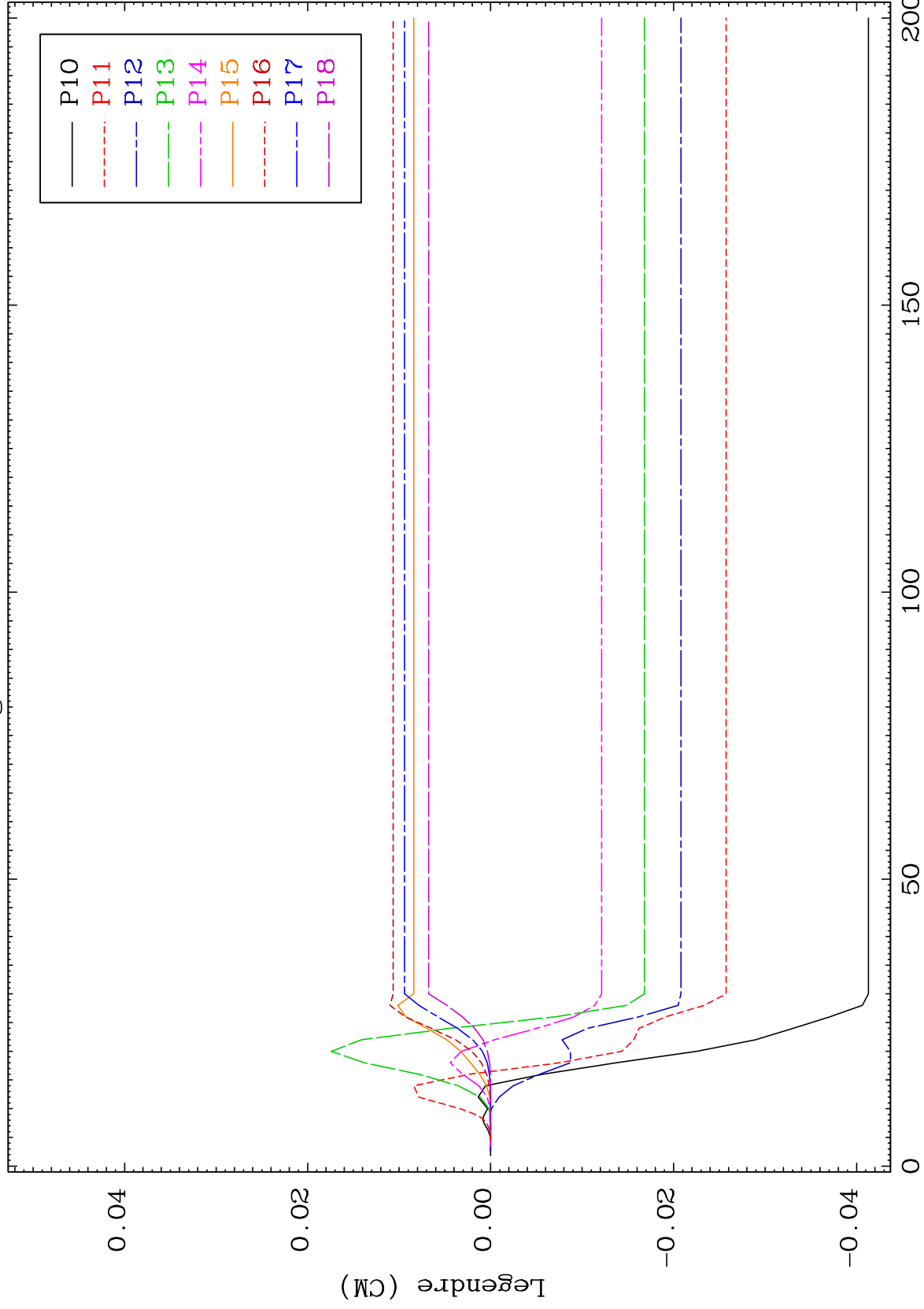




MAT 4143

1.408 MeV (n,n') Level  
Legendre Coefficients

41-Nb-99



77

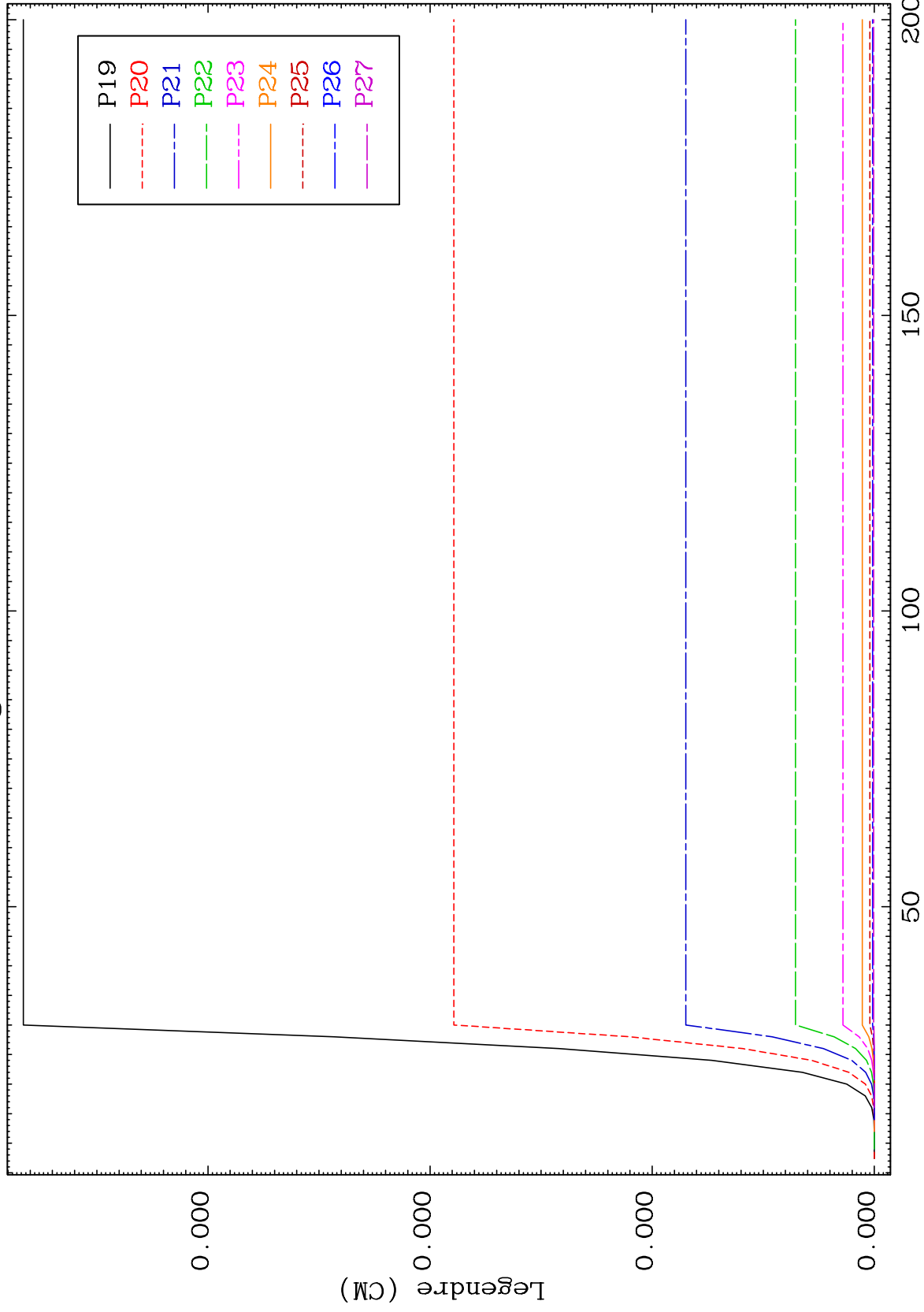
Incident Energy (MeV)

41-Nb-99

MAT 4143

1.408 MeV (n,n') Level  
Legendre Coefficients

41-Nb-99



78

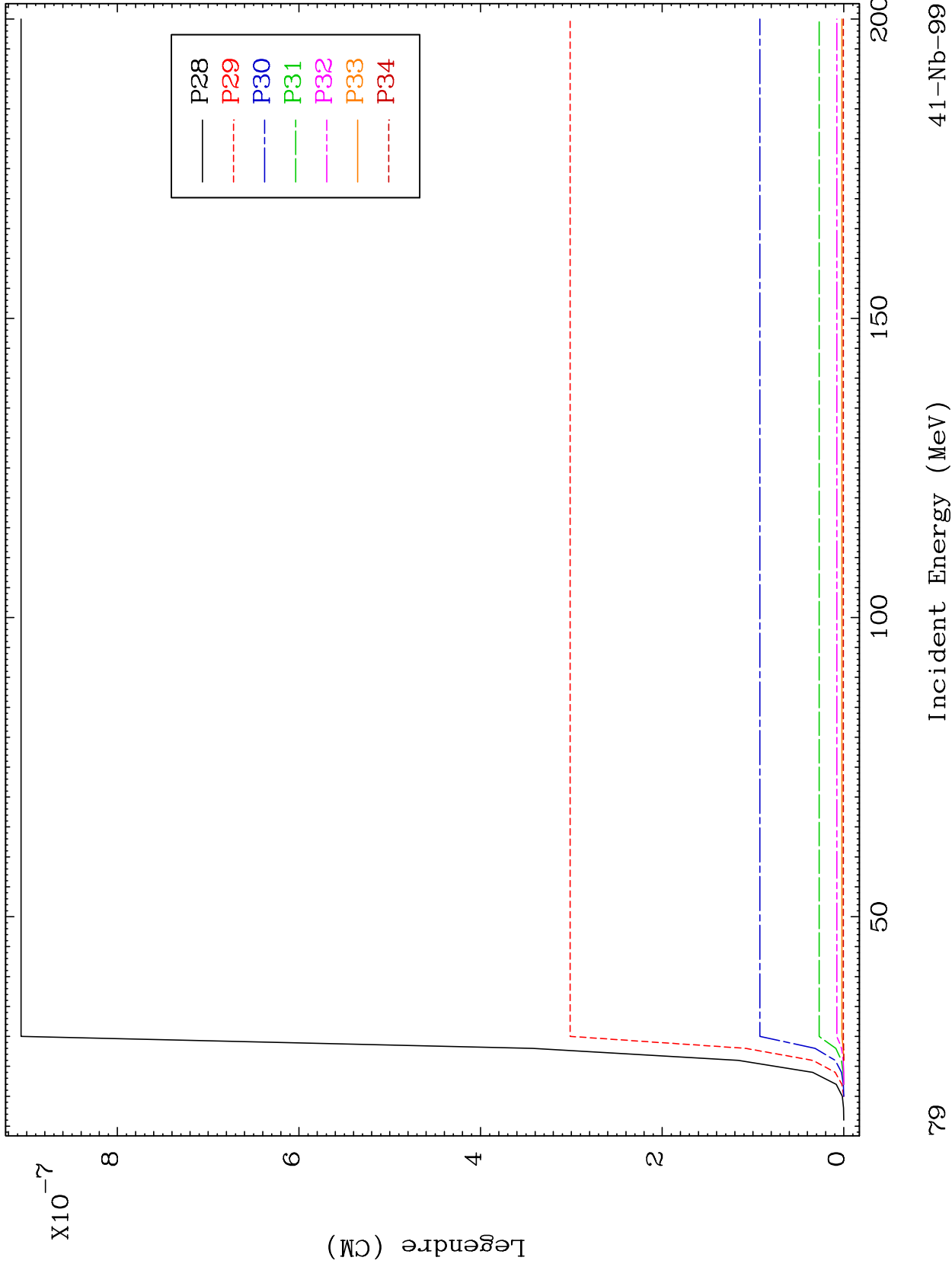
Incident Energy (MeV)

41-Nb-99

MAT 4143

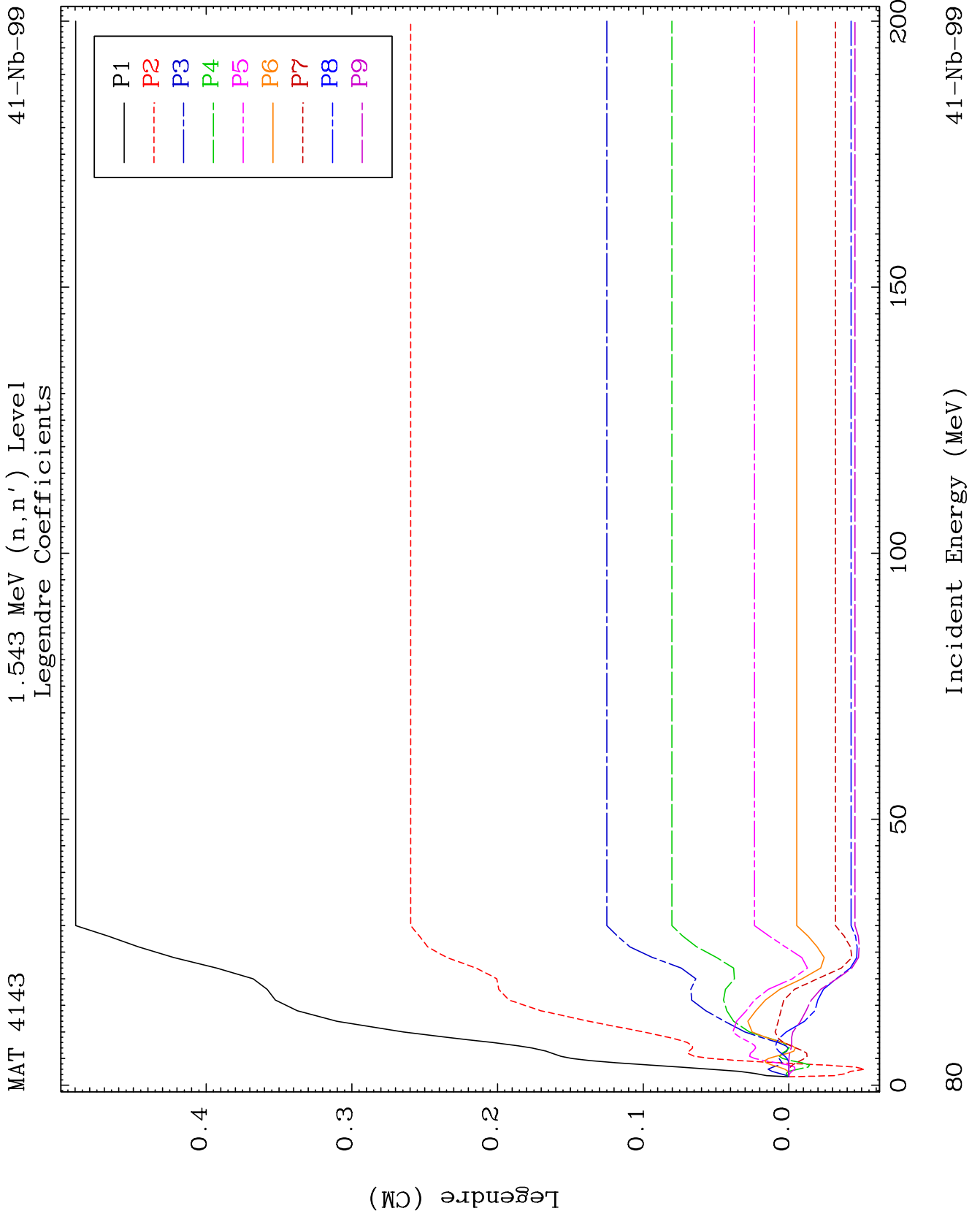
1.408 MeV (n,n') Level  
Legendre Coefficients

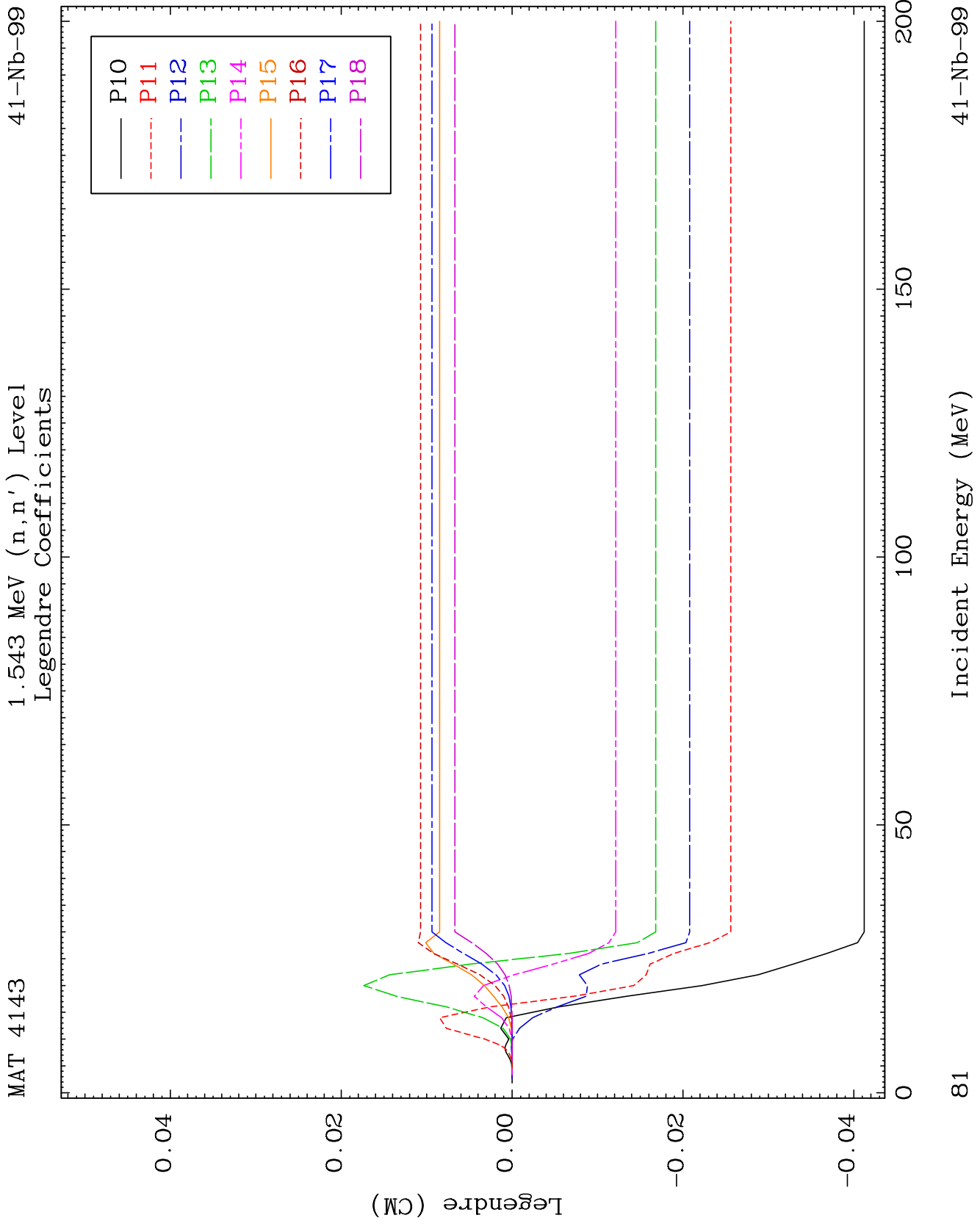
41-Nb-99

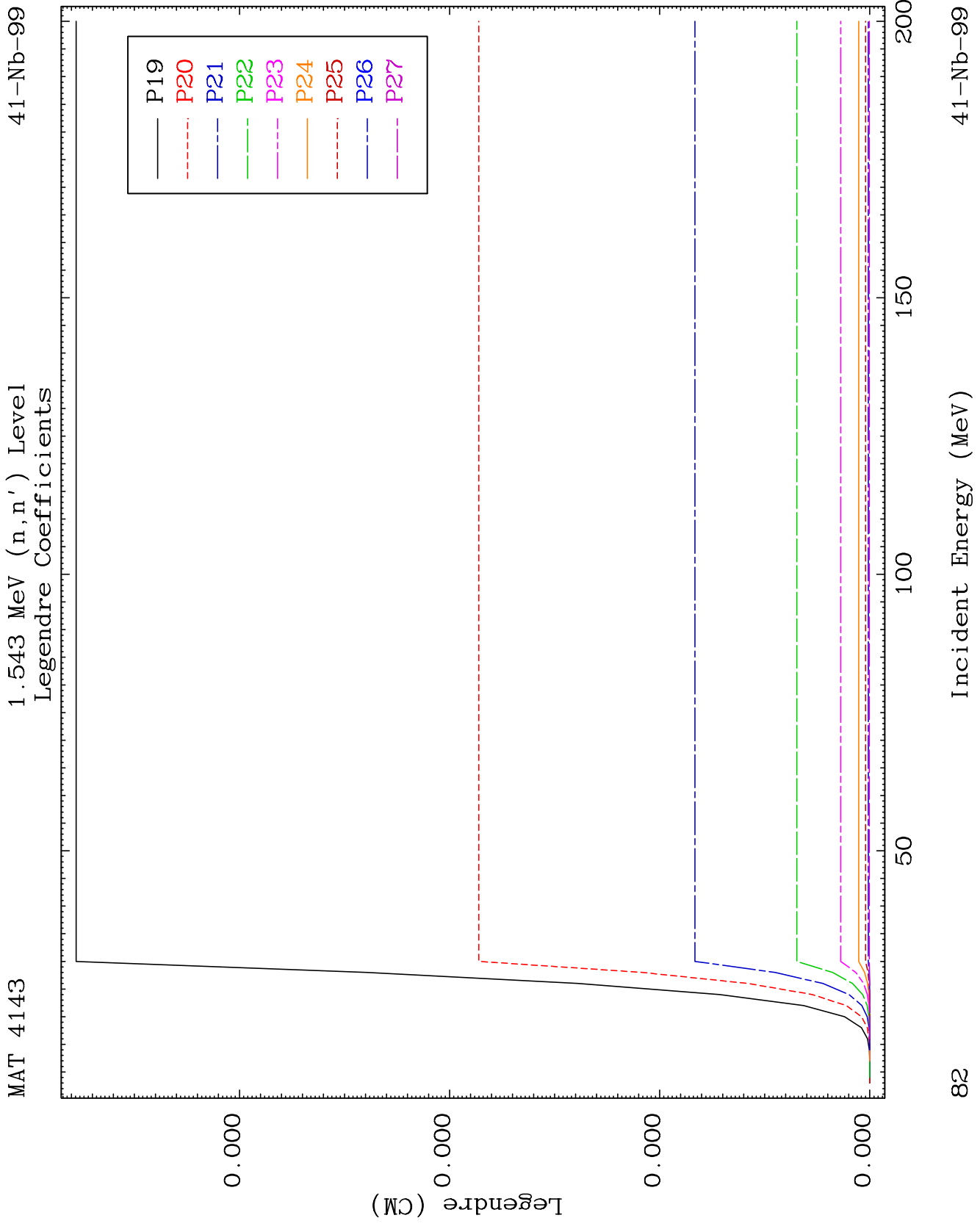


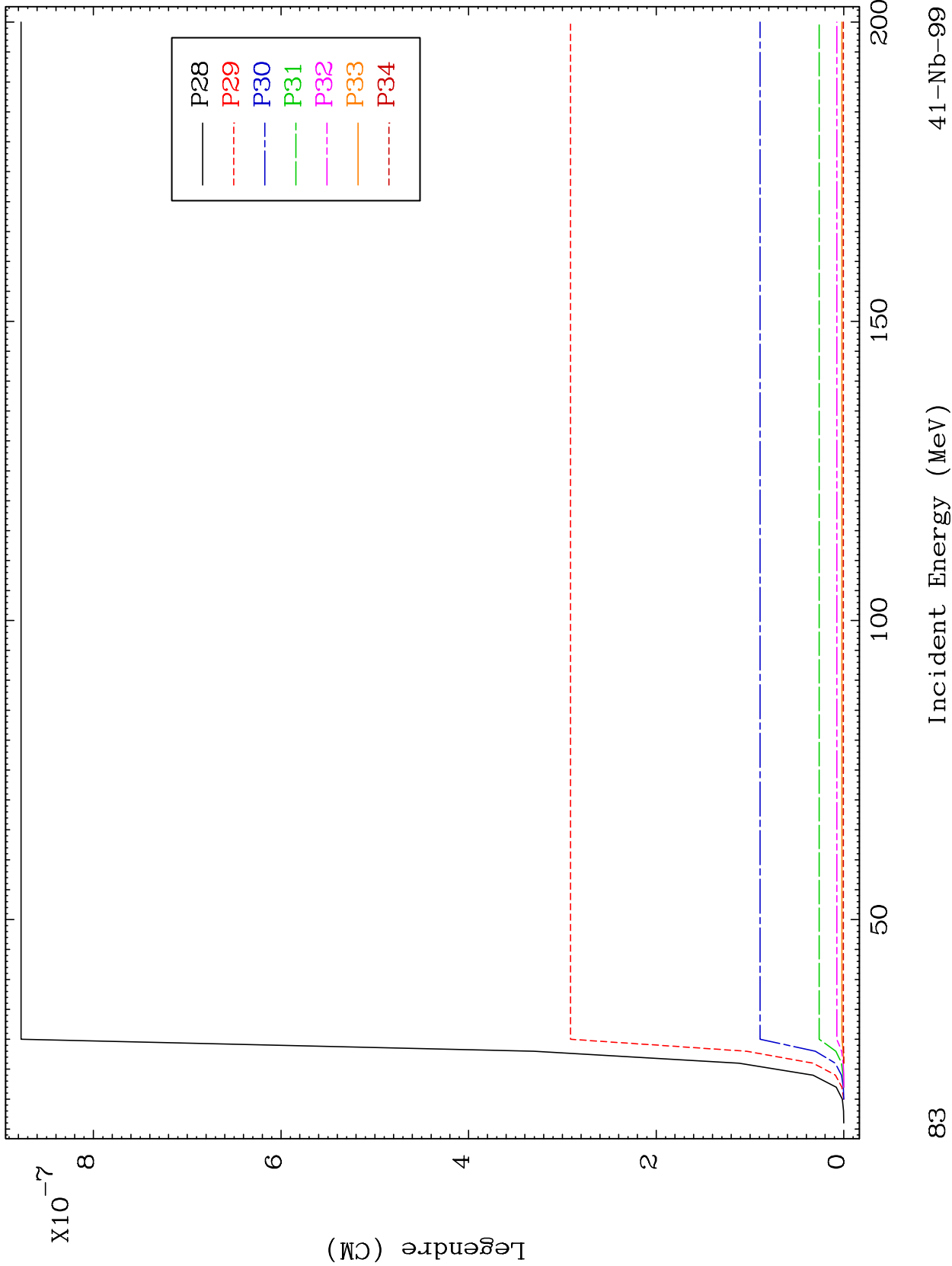
79

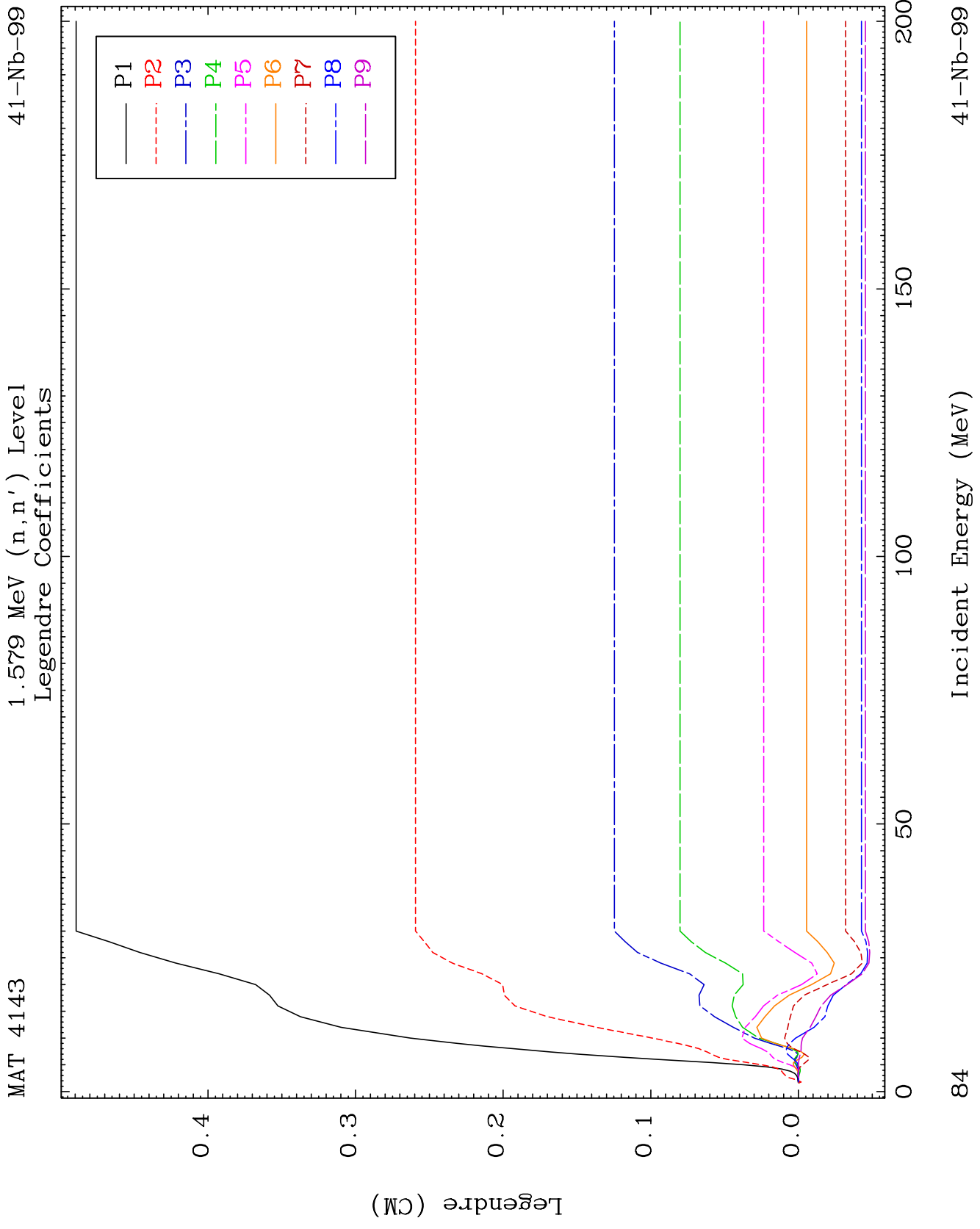


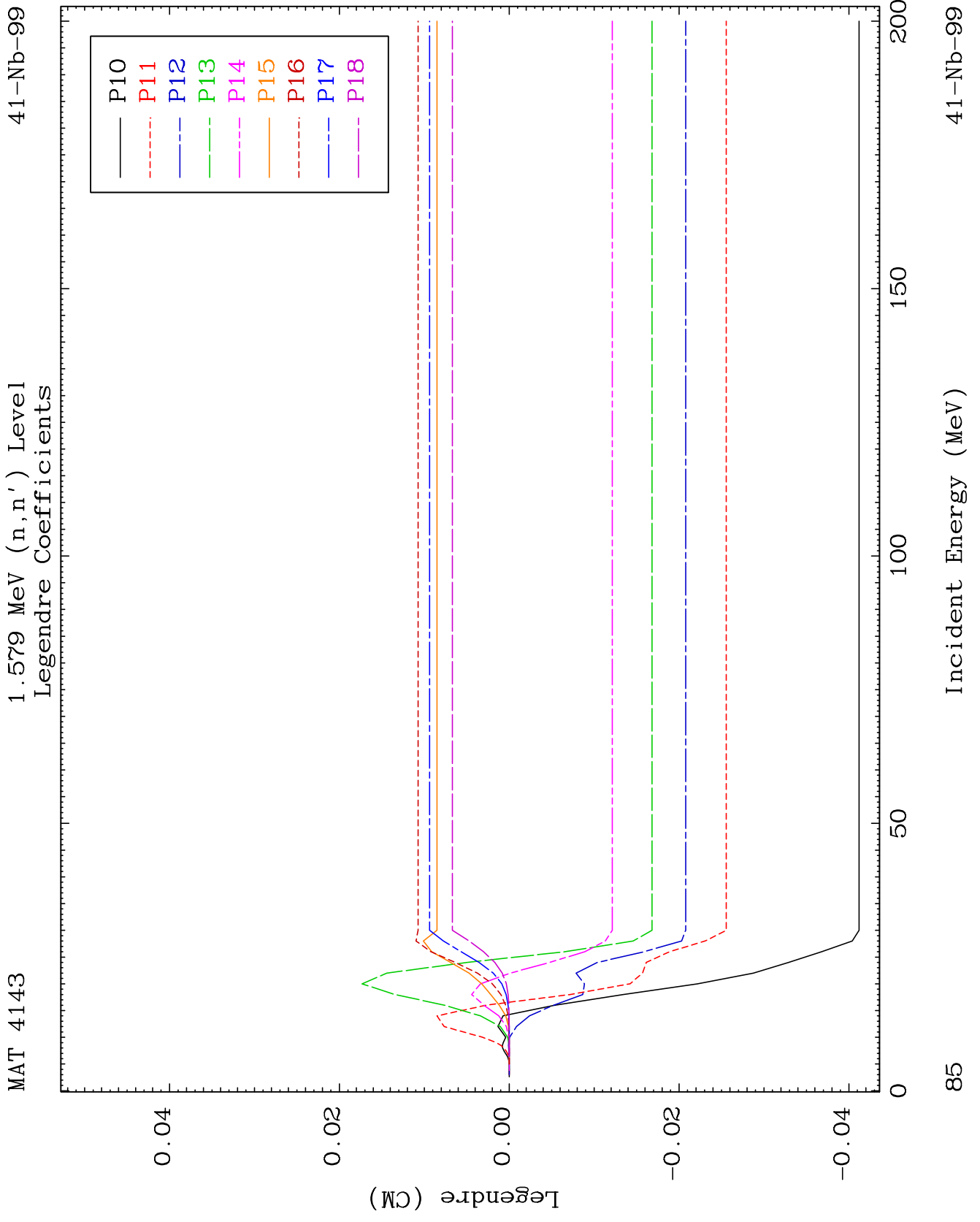








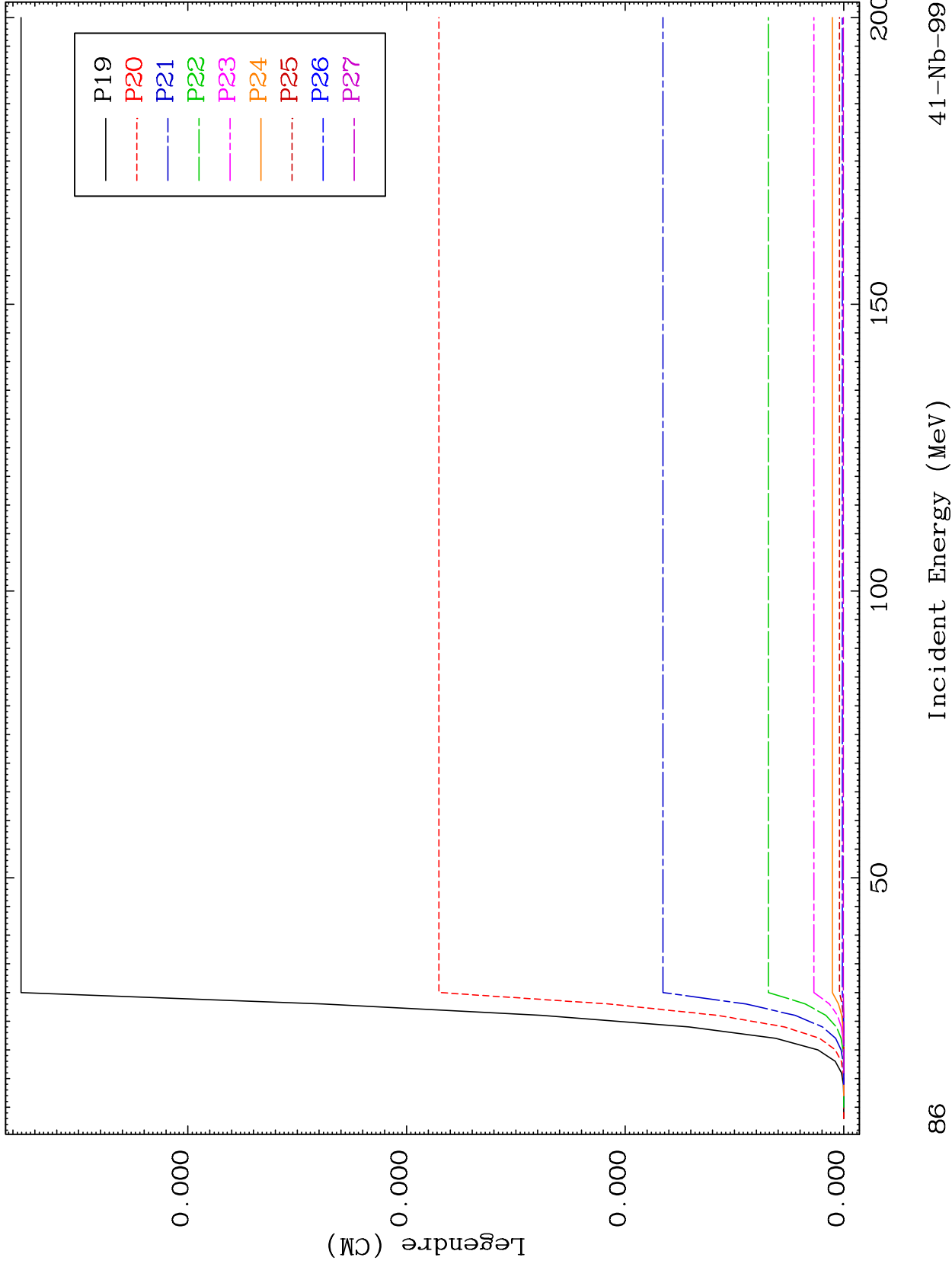




MAT 4143

1.579 MeV (n,n') Level  
Legendre Coefficients

41-Nb-99

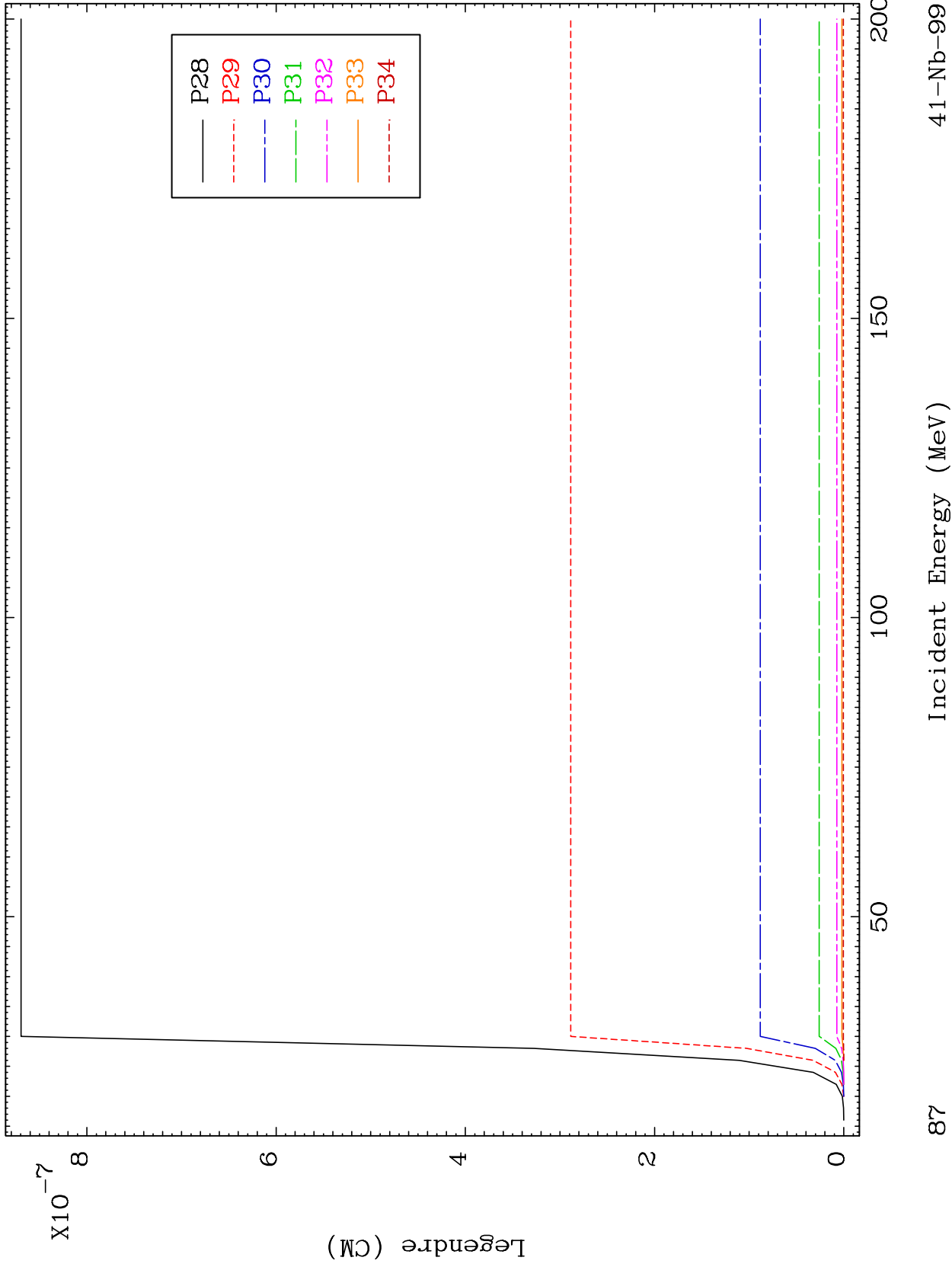


86

MAT 4143

1.579 MeV (n, n') Level  
Legendre Coefficients

41-Nb-99

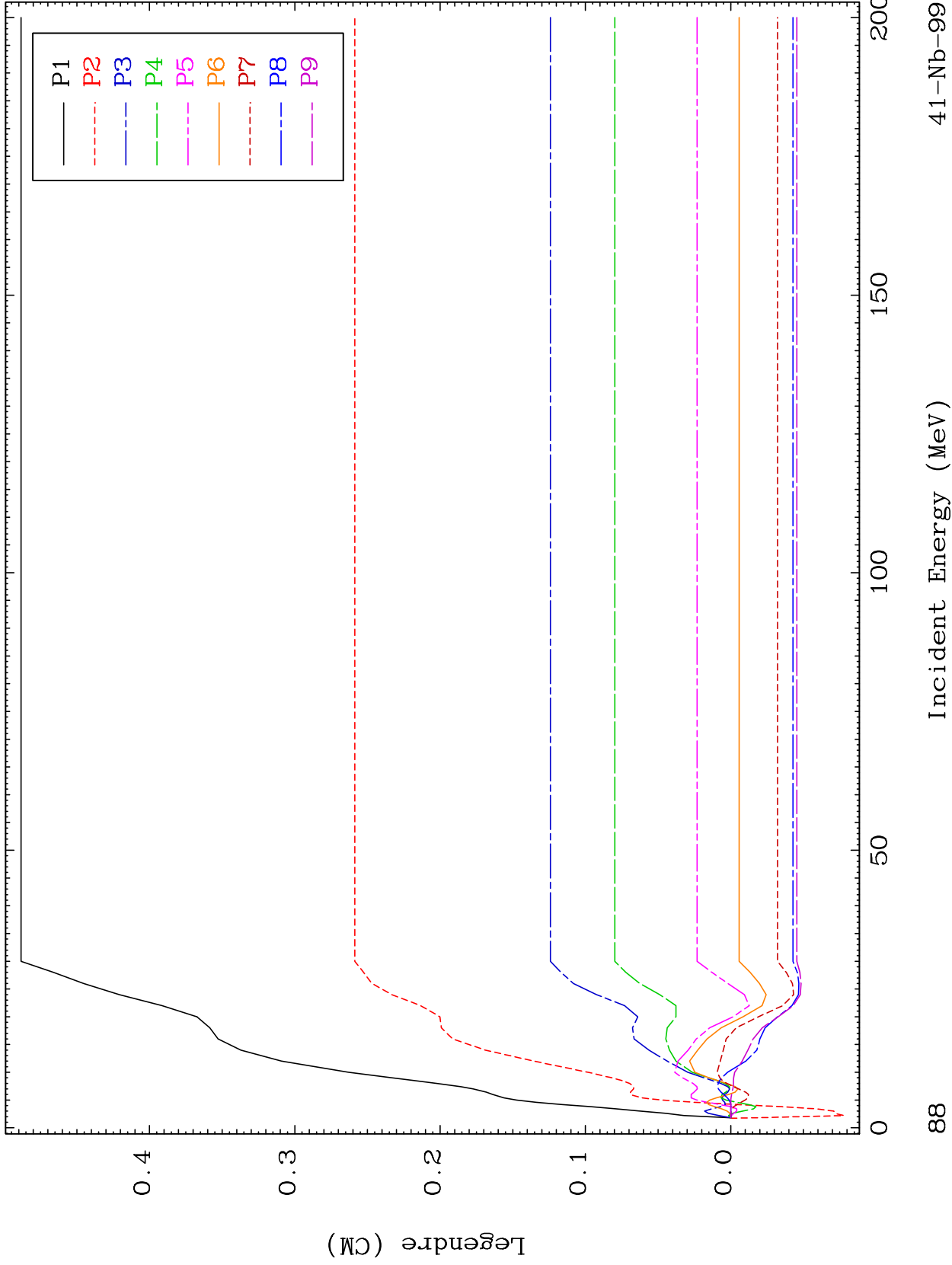




MAT 4143

1.703 MeV (n,n') Level  
Legendre Coefficients

41-Nb-99



41-Nb-99

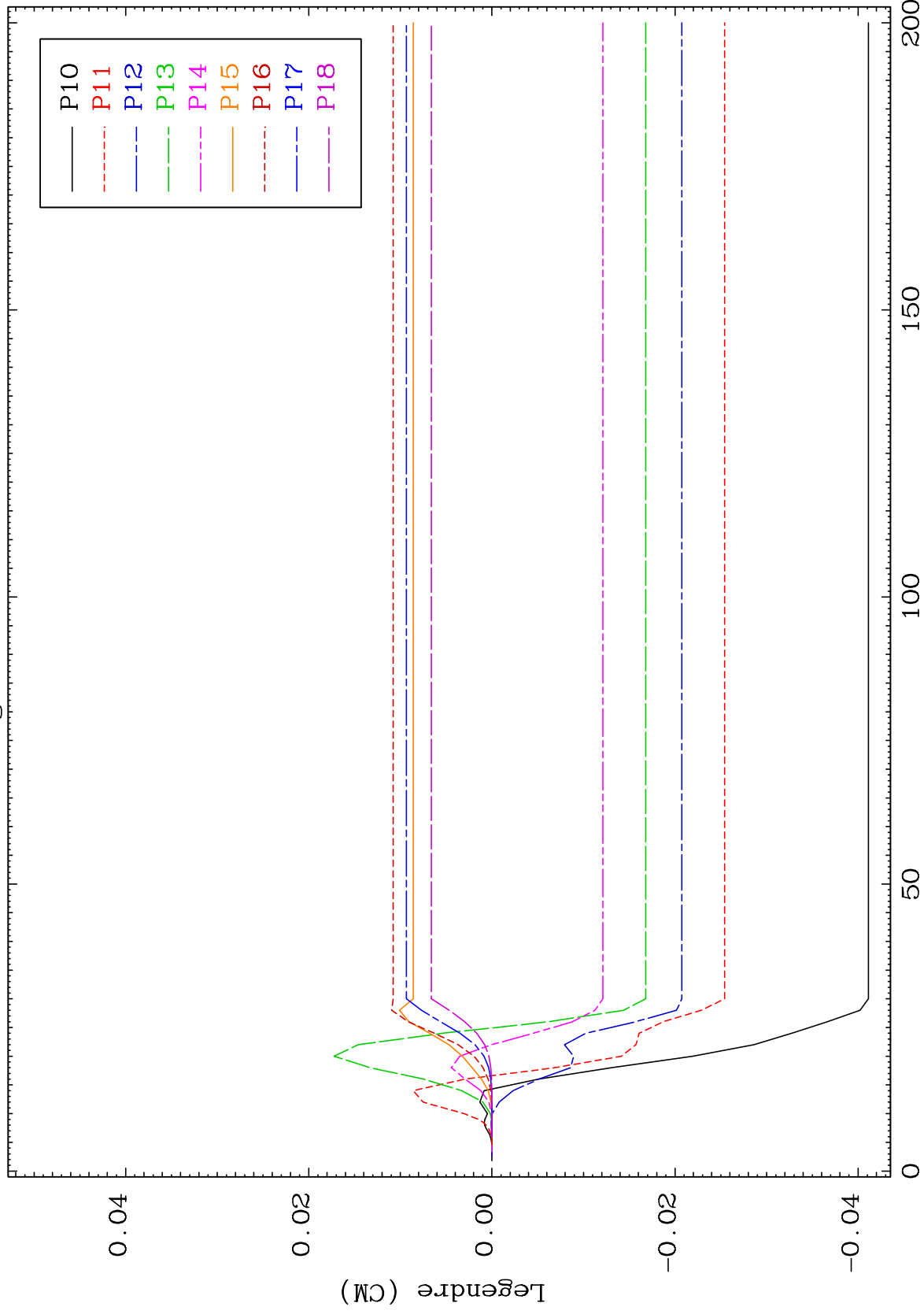
Incident Energy (MeV)

88

MAT 4143

1.703 MeV (n,n') Level  
Legendre Coefficients

41-Nb-99



89

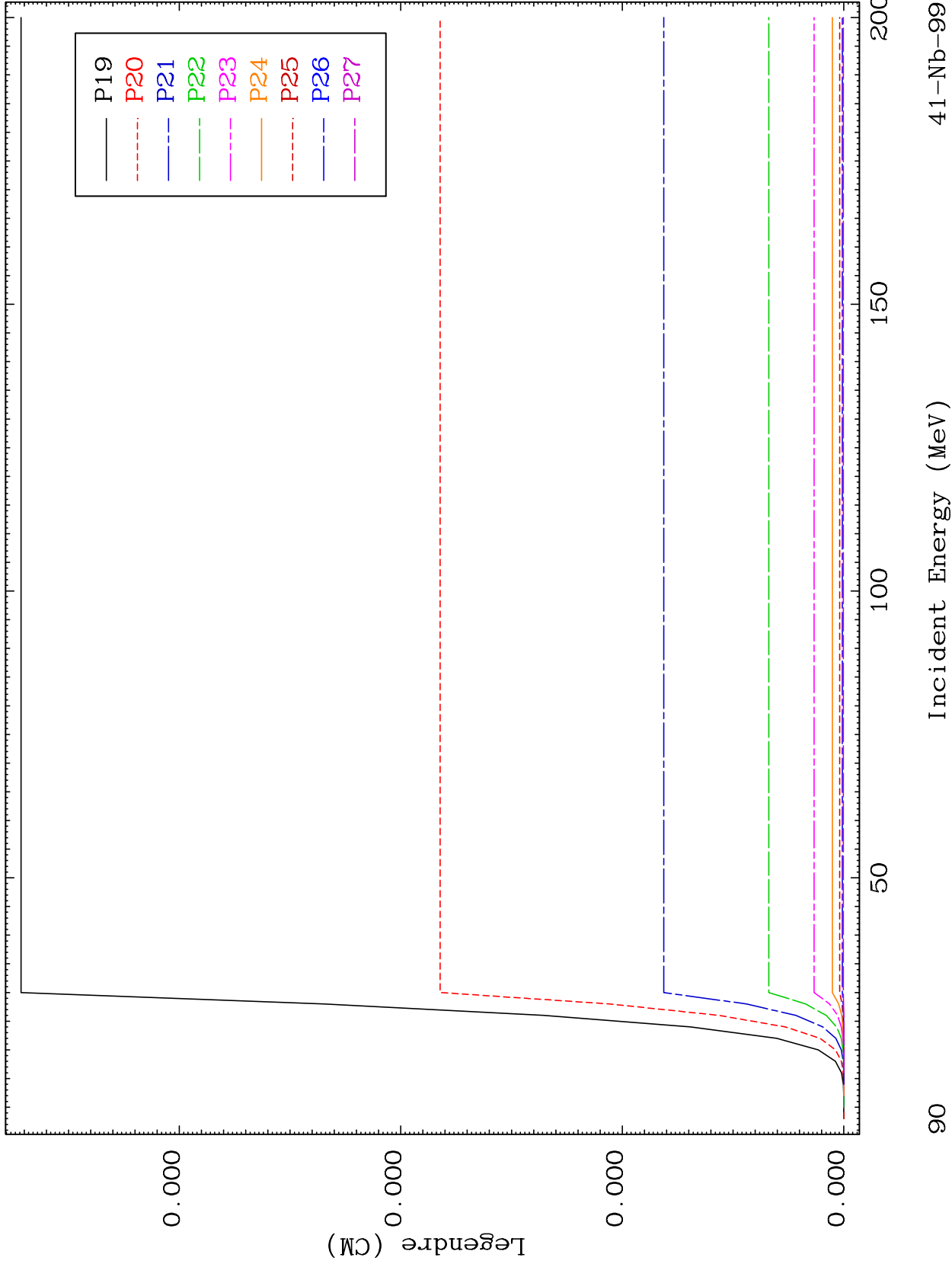
Incident Energy (MeV)

41-Nb-99

MAT 4143

1.703 MeV (n,n') Level  
Legendre Coefficients

41-Nb-99



90

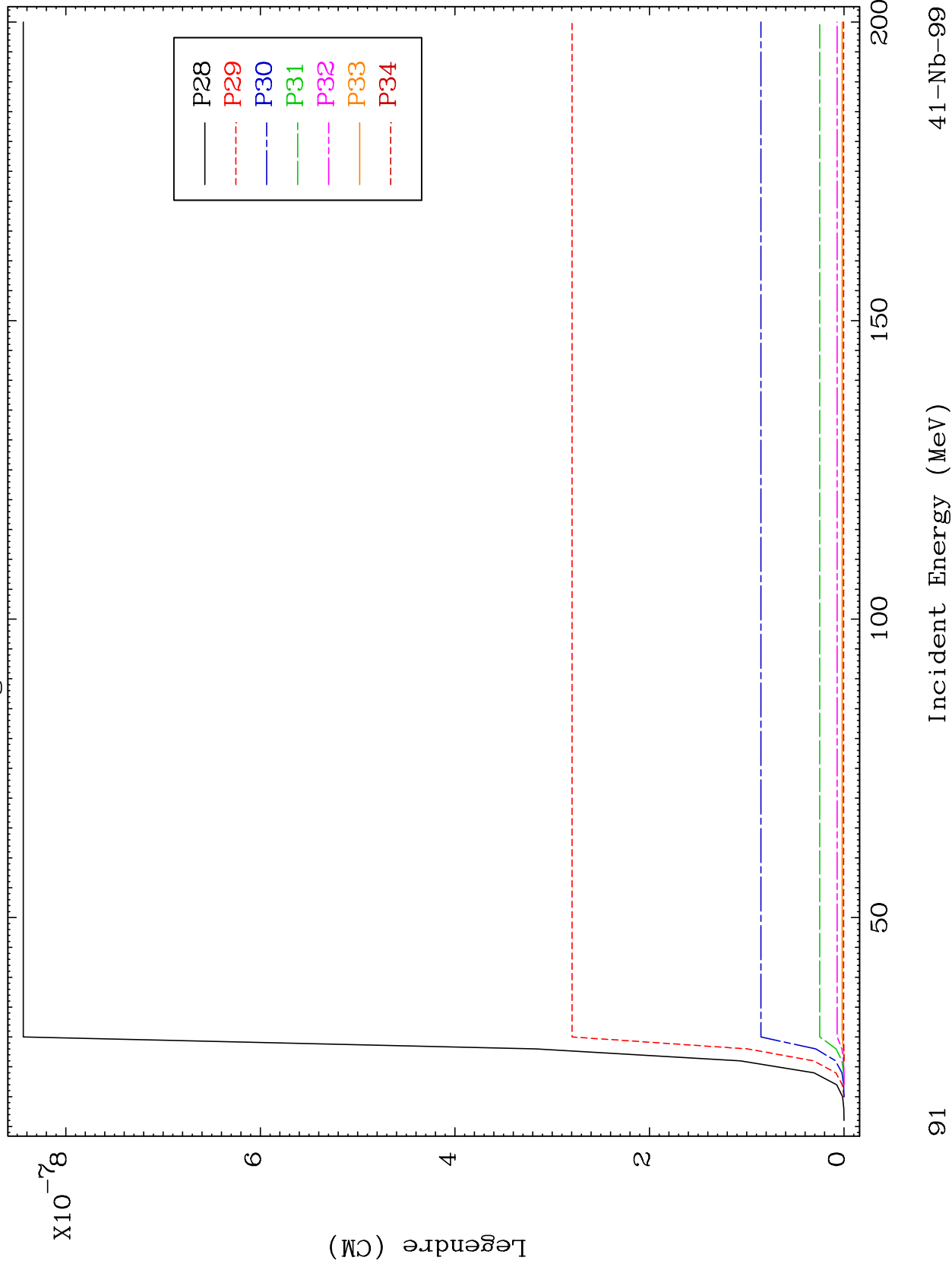
Incident Energy (MeV)

41-Nb-99

MAT 4143

1.703 MeV (n,n') Level  
Legendre Coefficients

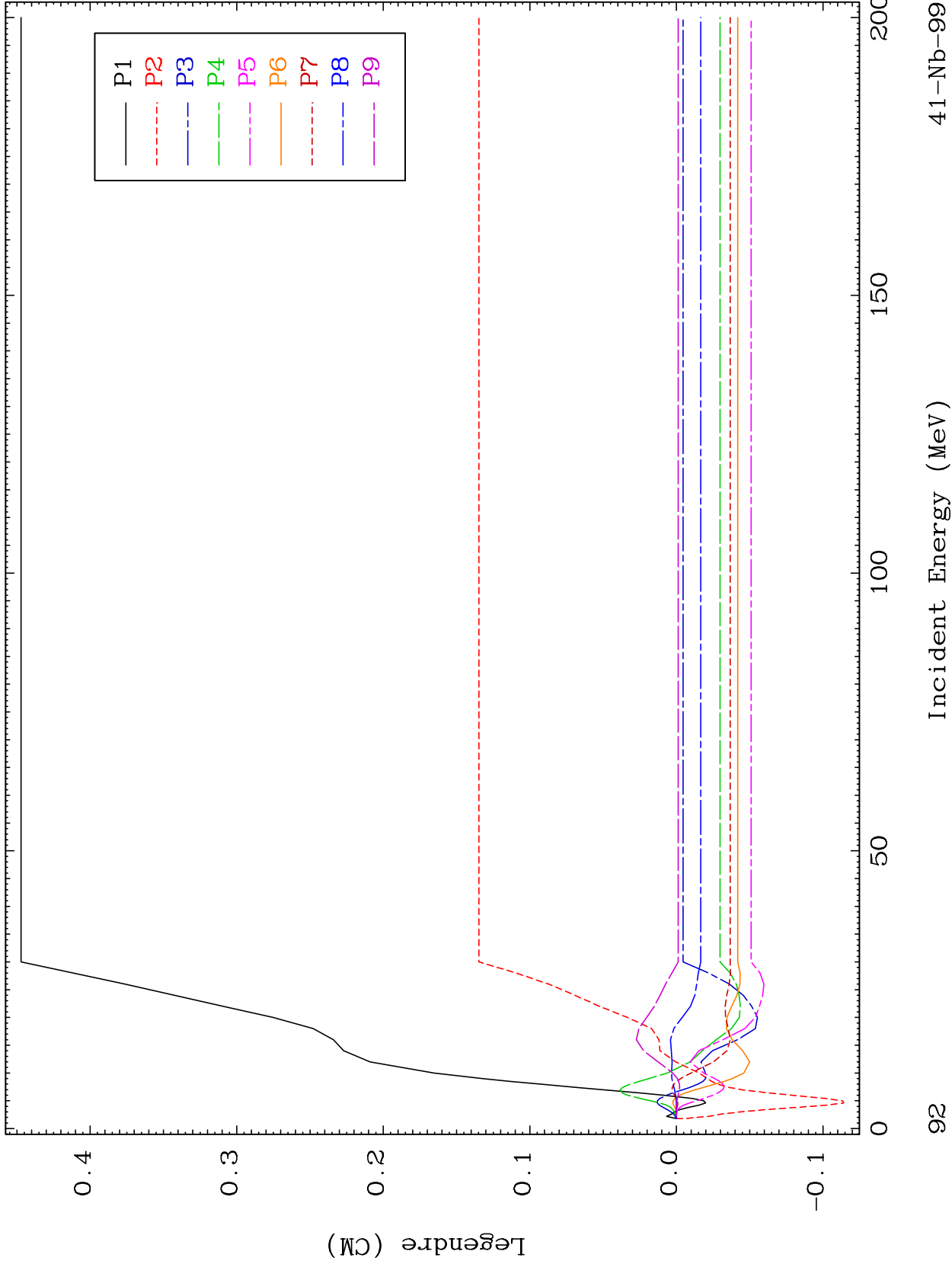
41-Nb-99



MAT 4143

1.759 MeV (n,n') Level  
Legendre Coefficients

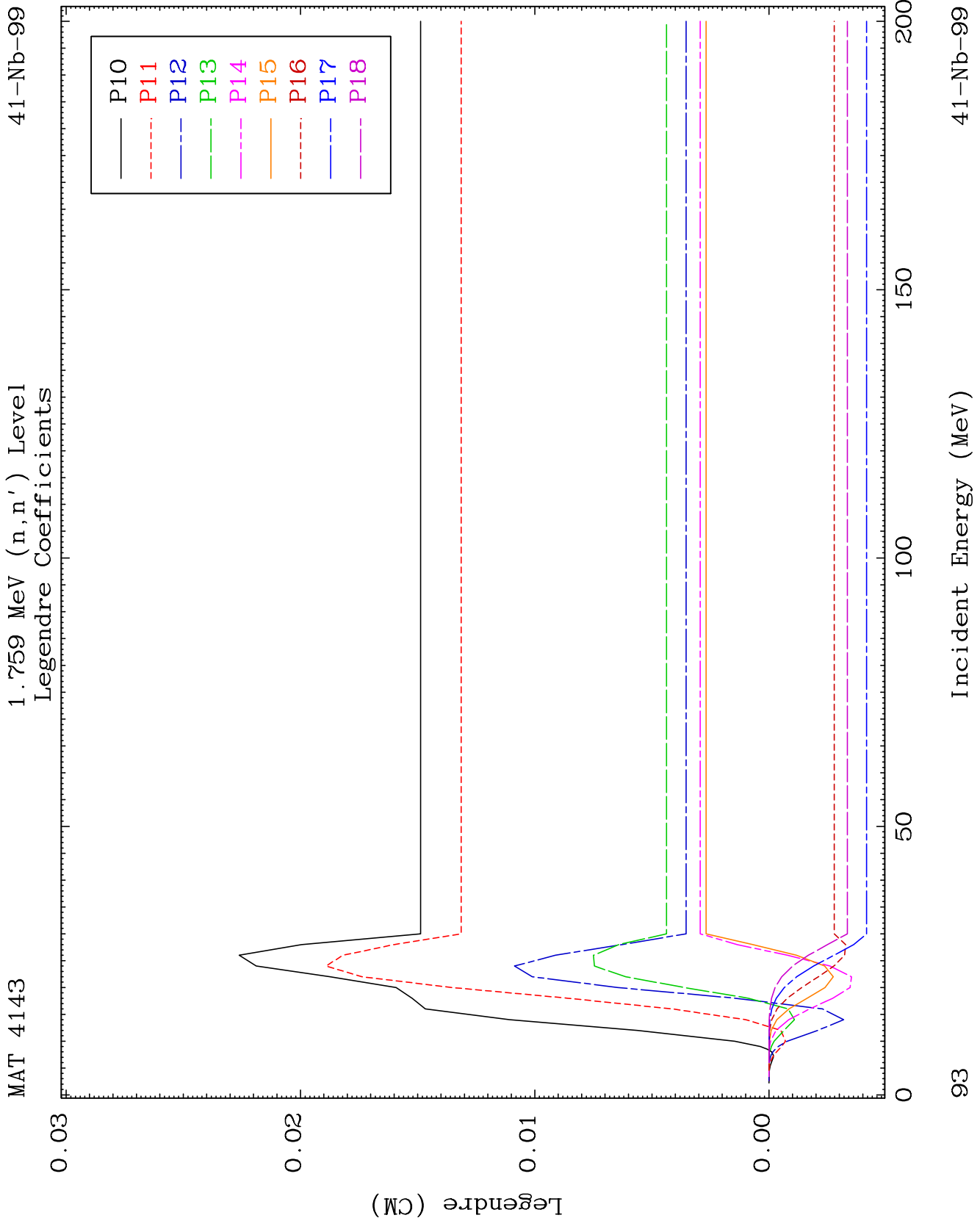
41-Nb-99

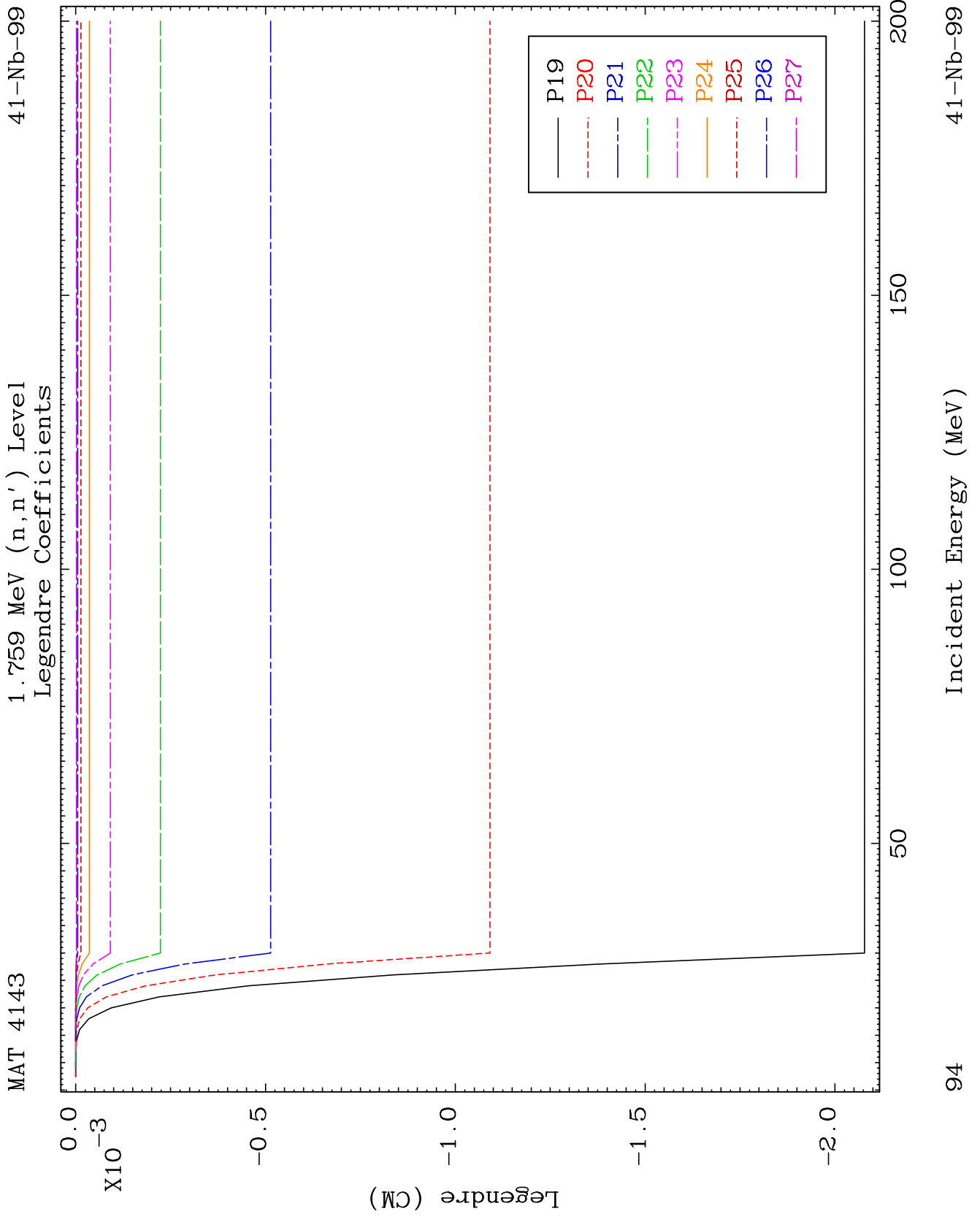


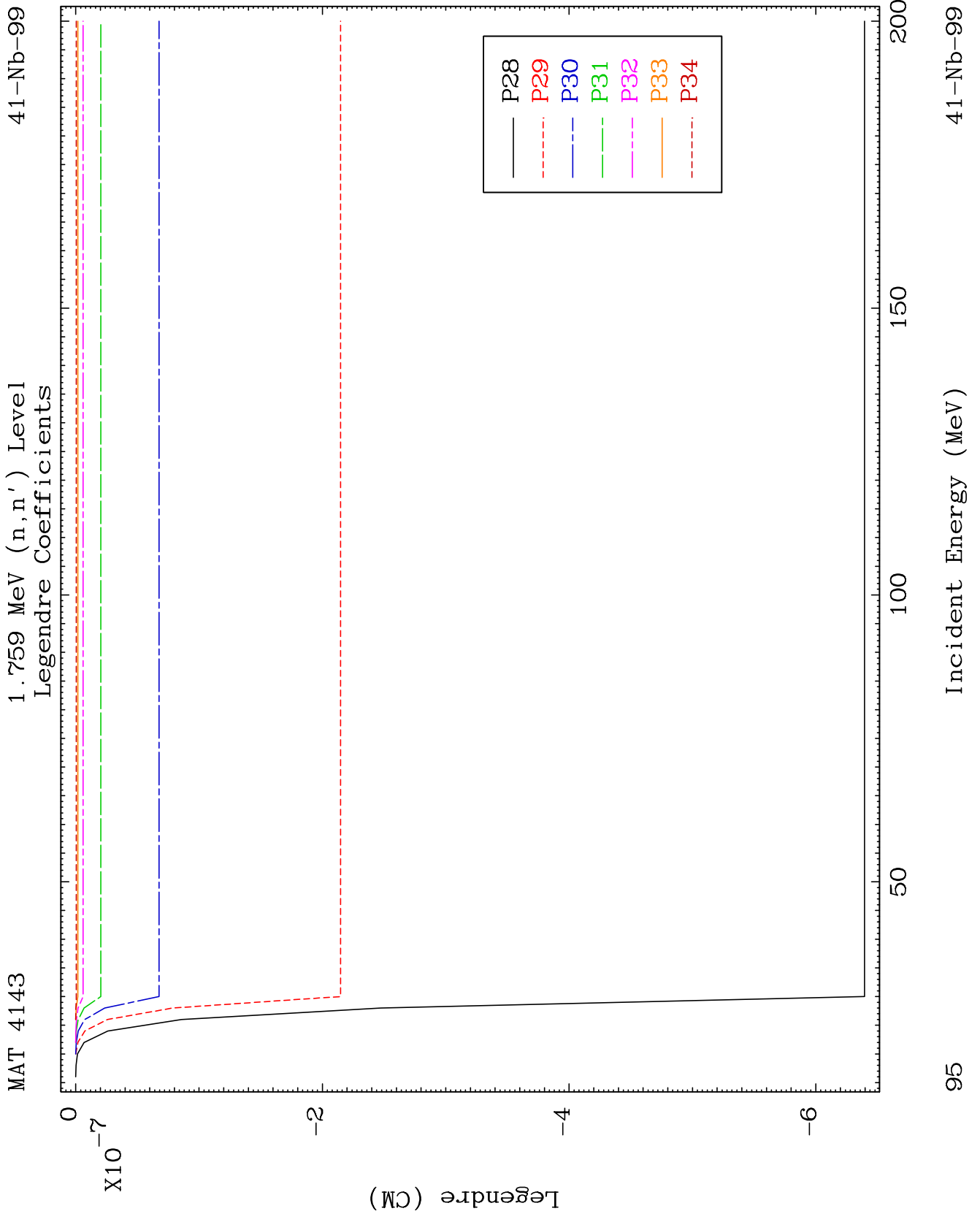
41-Nb-99

Incident Energy (MeV)

92







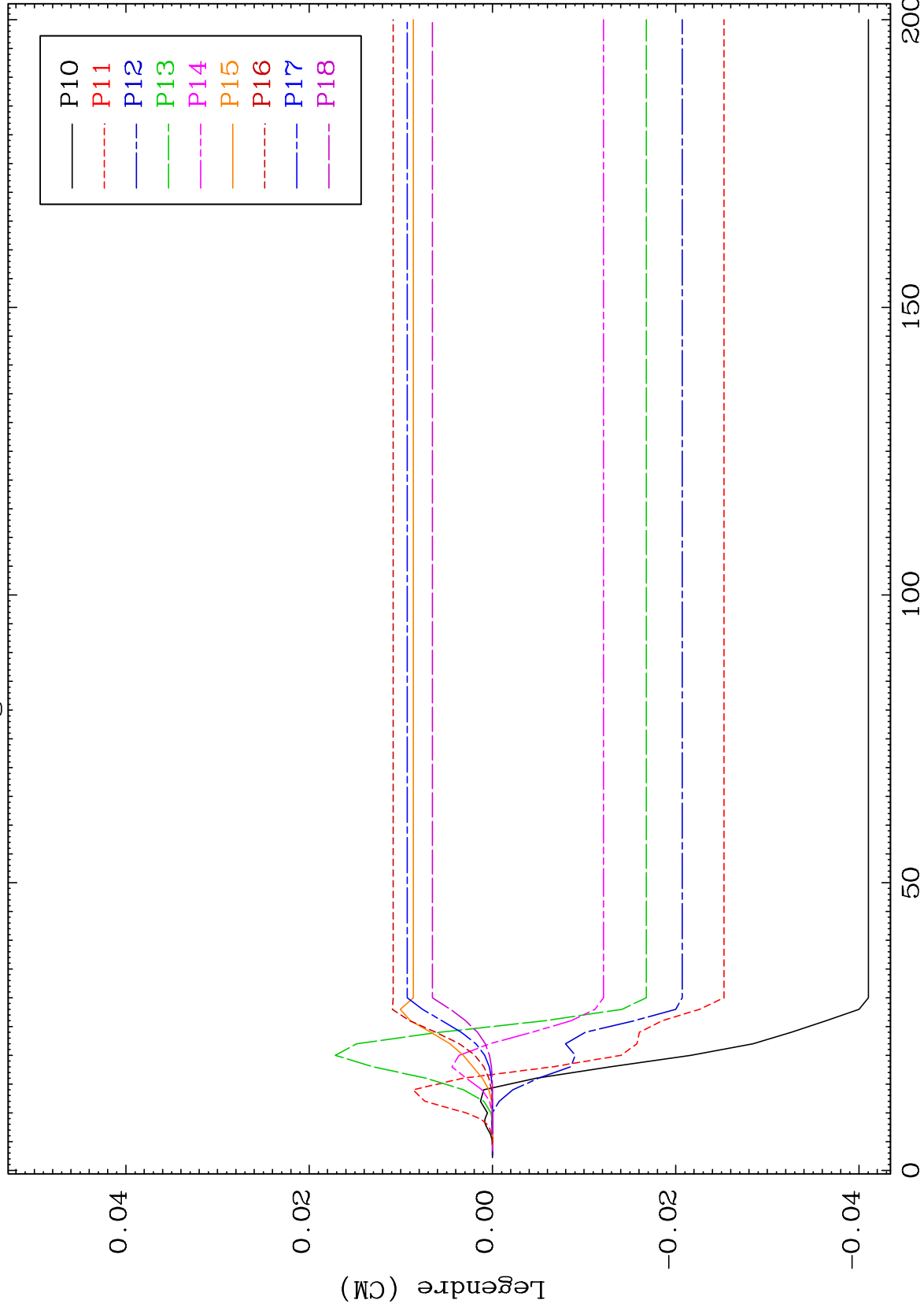




MAT 4143

1.831 MeV (n,n') Level  
Legendre Coefficients

41-Nb-99



97

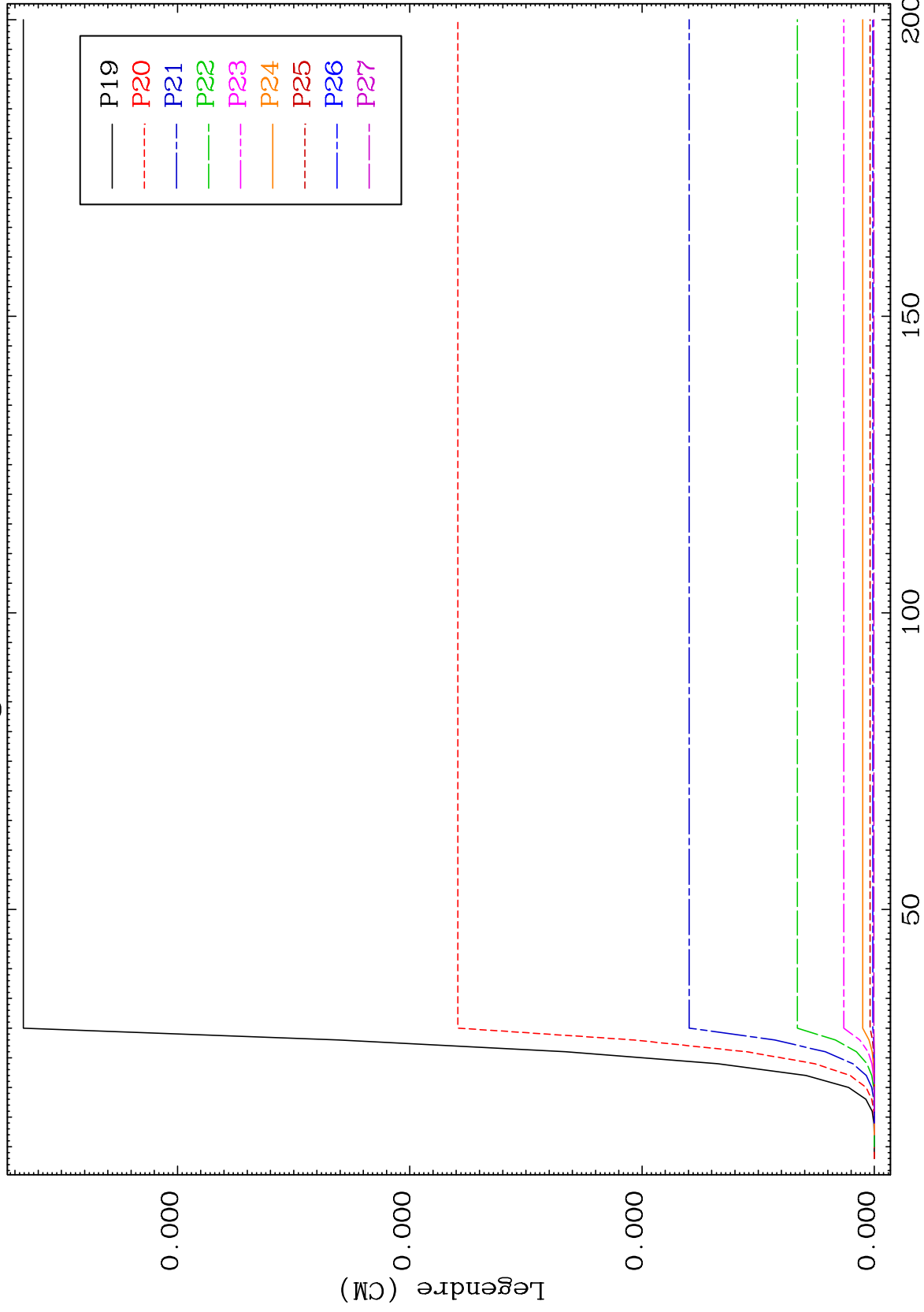
Incident Energy (MeV)

41-Nb-99

MAT 4143

1.831 MeV (n,n') Level  
Legendre Coefficients

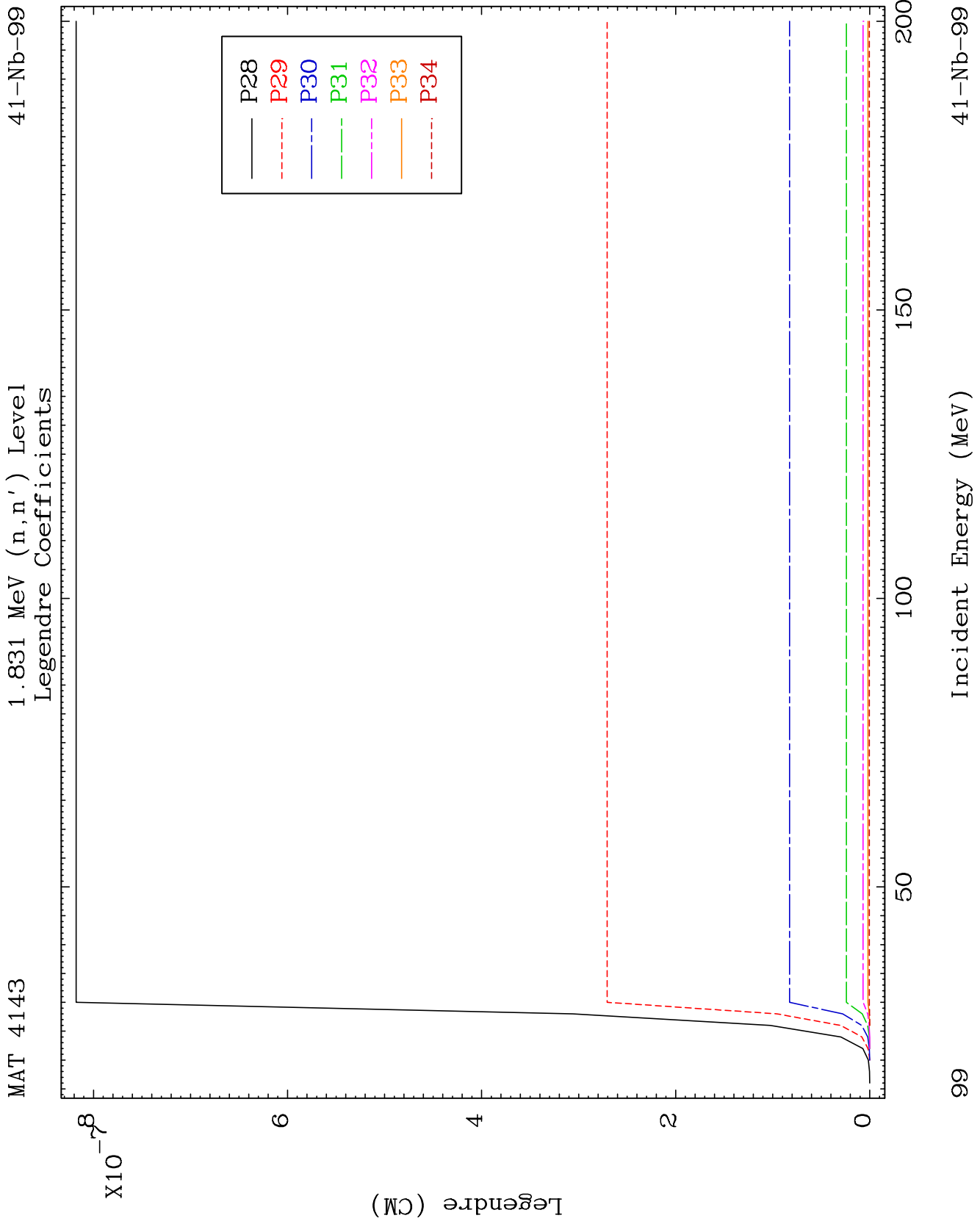
41-Nb-99

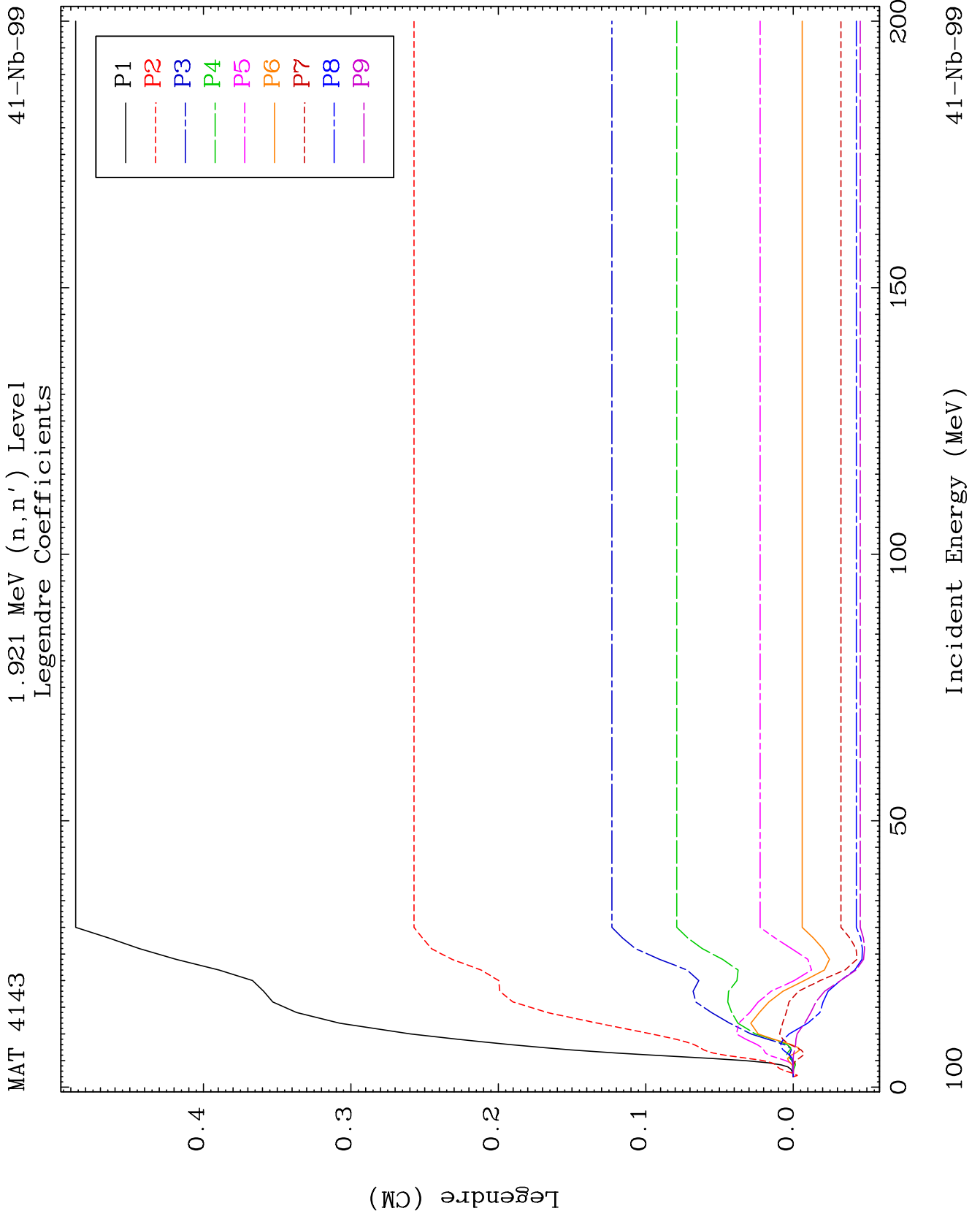


98

Incident Energy (MeV)

41-Nb-99

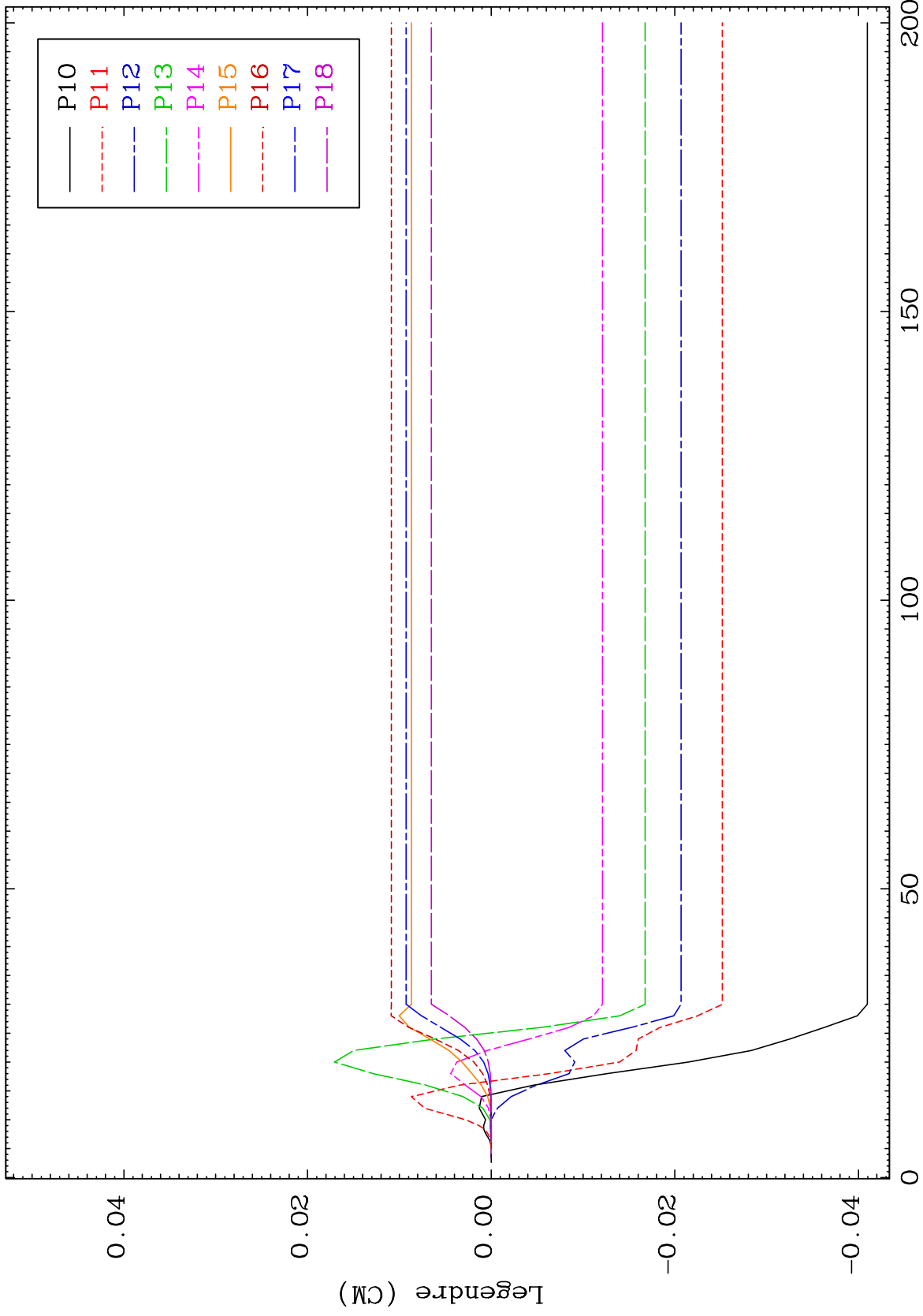




MAT 4143

1.921 MeV (n,n') Level  
Legendre Coefficients

41-Nb-99



101

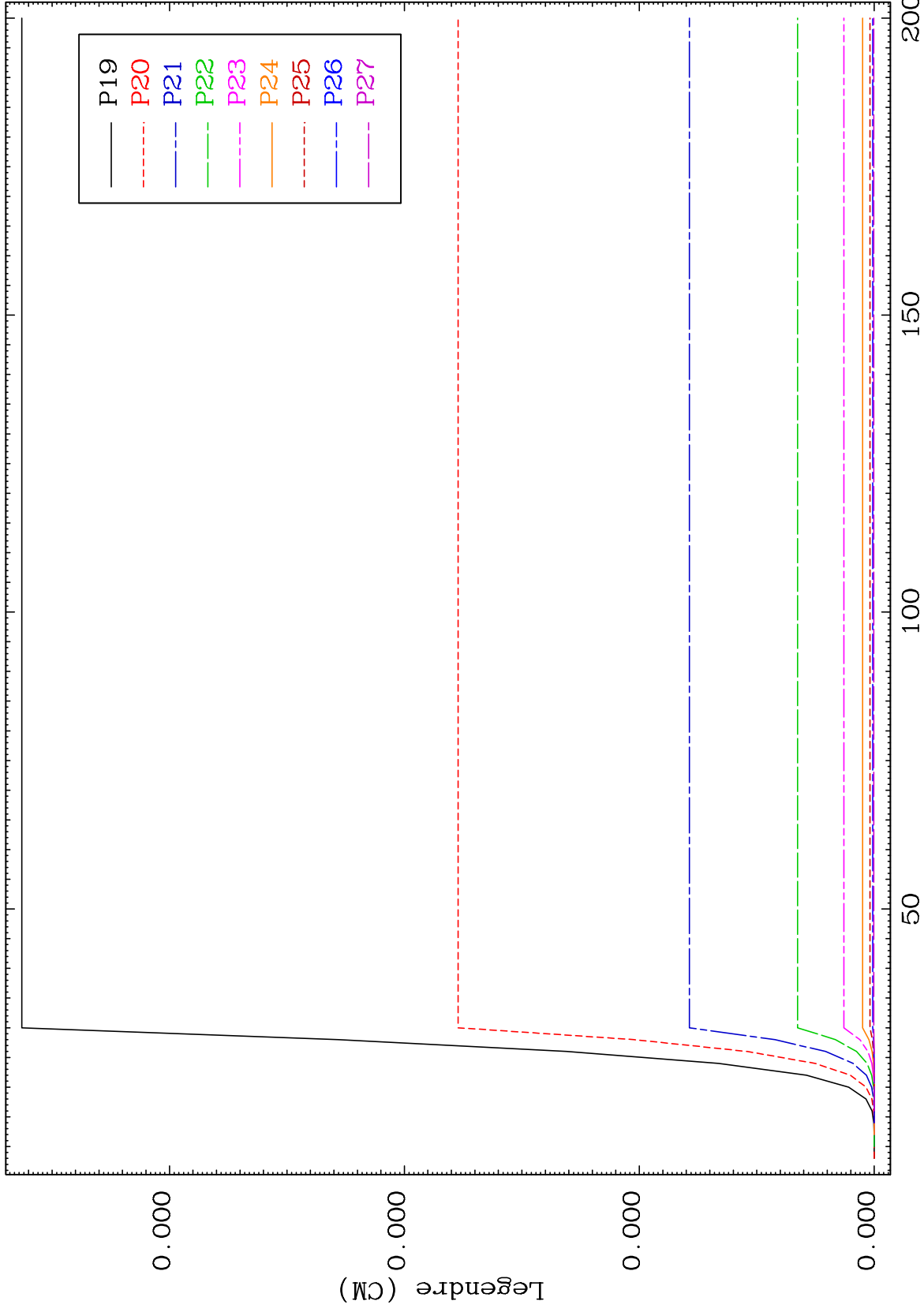
Incident Energy (MeV)

41-Nb-99

MAT 4143

1.921 MeV (n,n') Level  
Legendre Coefficients

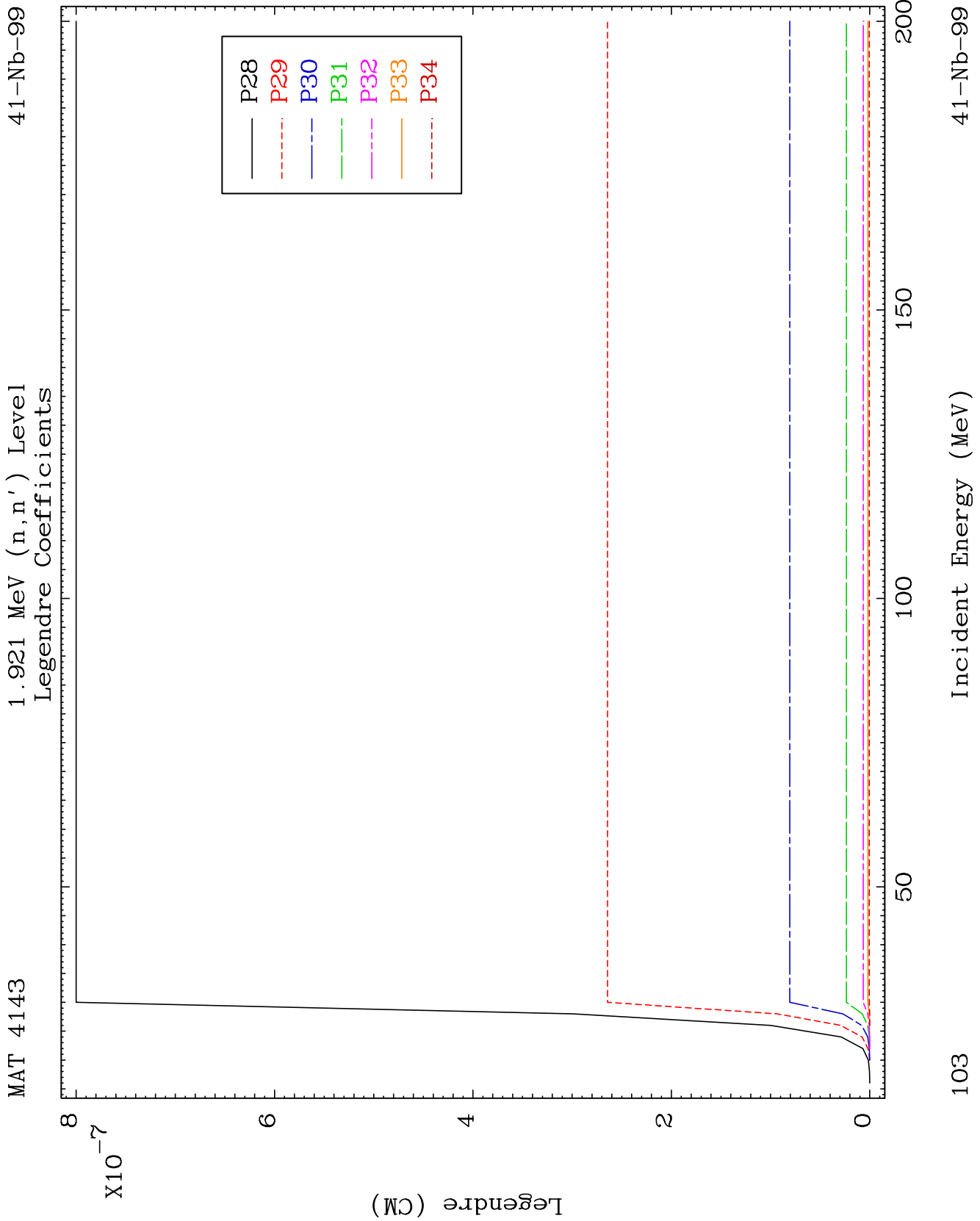
41-Nb-99



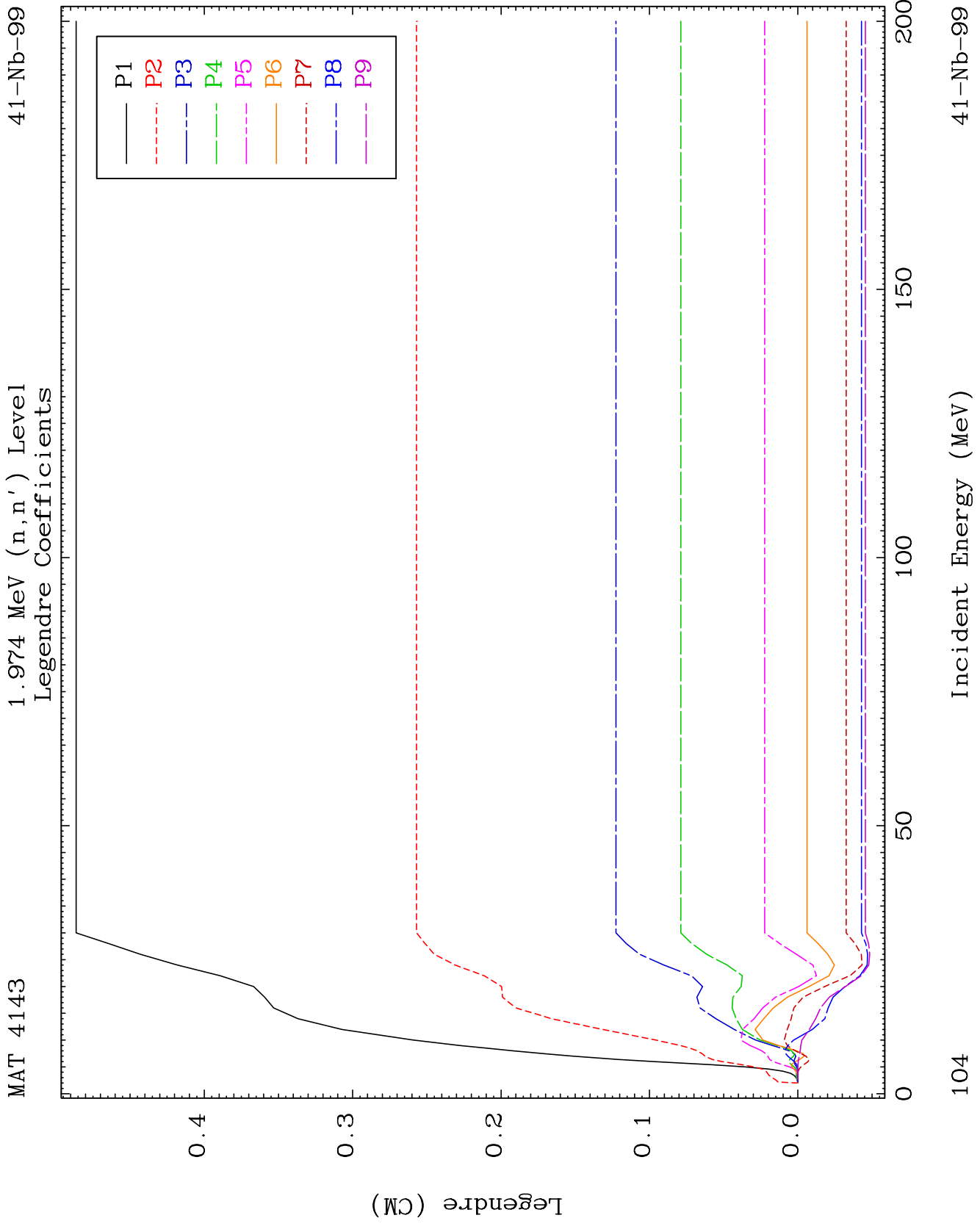
102

Incident Energy (MeV)

41-Nb-99



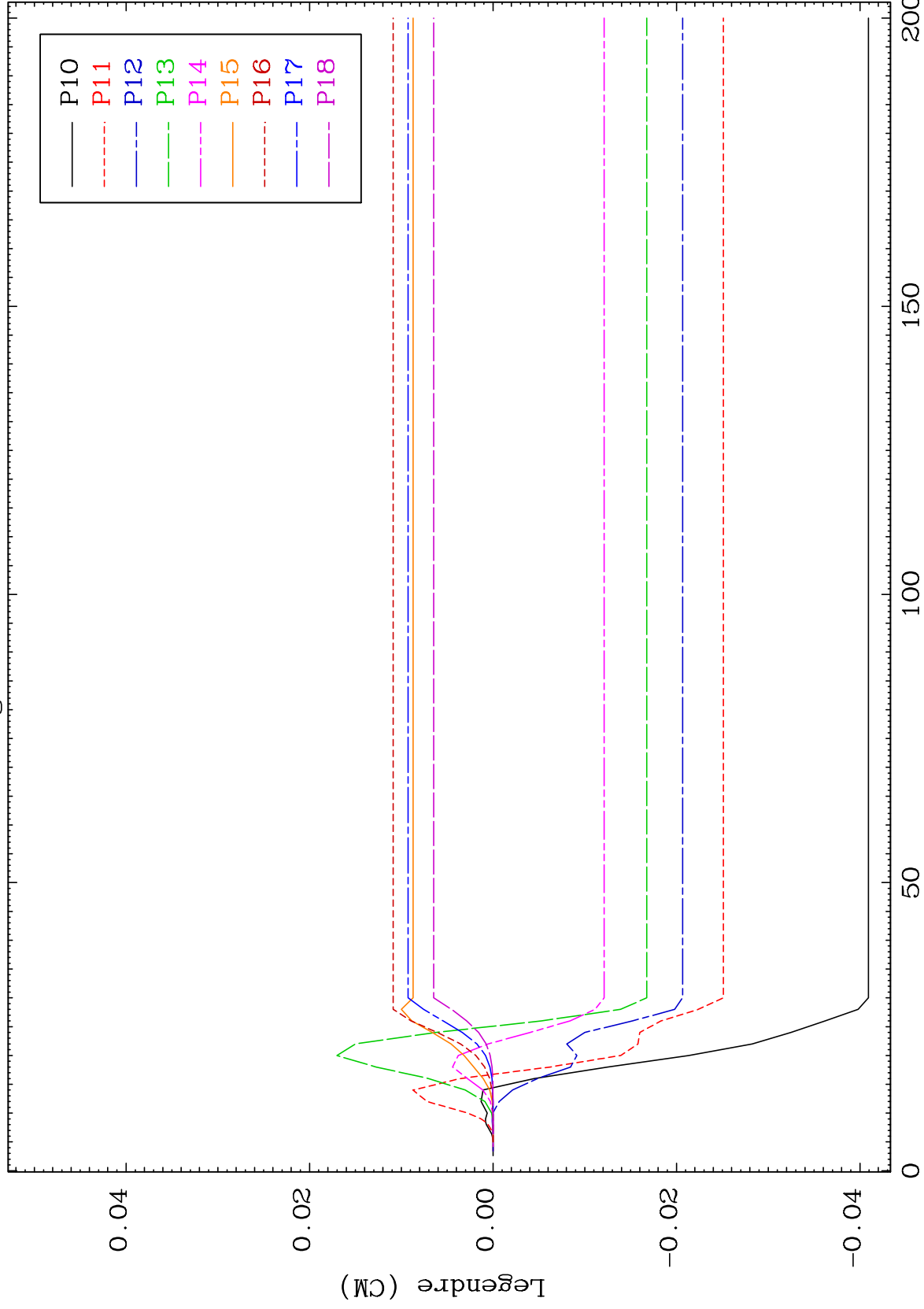




MAT 4143

1.974 MeV (n,n') Level  
Legendre Coefficients

41-Nb-99



105

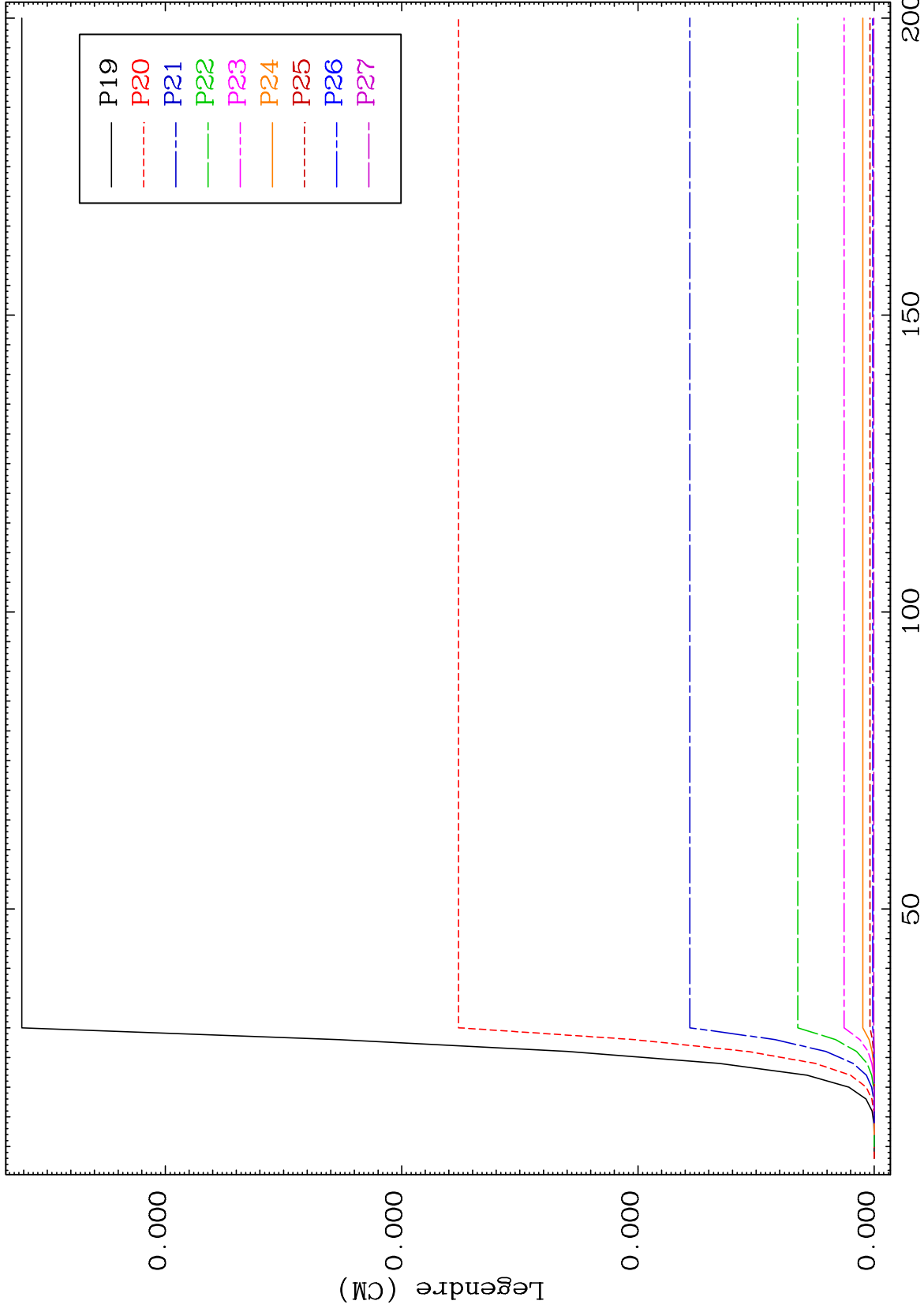
Incident Energy (MeV)

41-Nb-99

MAT 4143

1.974 MeV (n,n') Level  
Legendre Coefficients

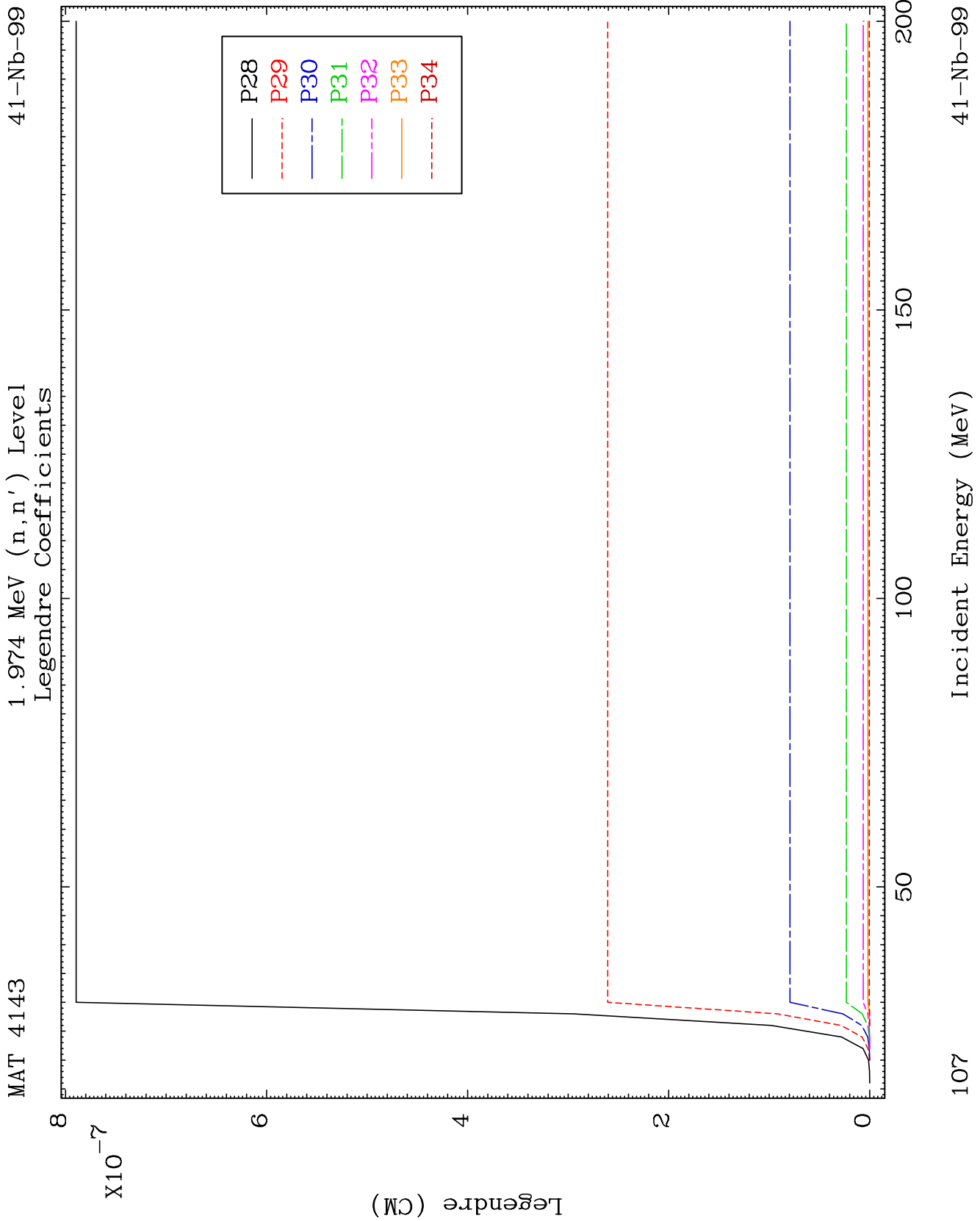
41-Nb-99

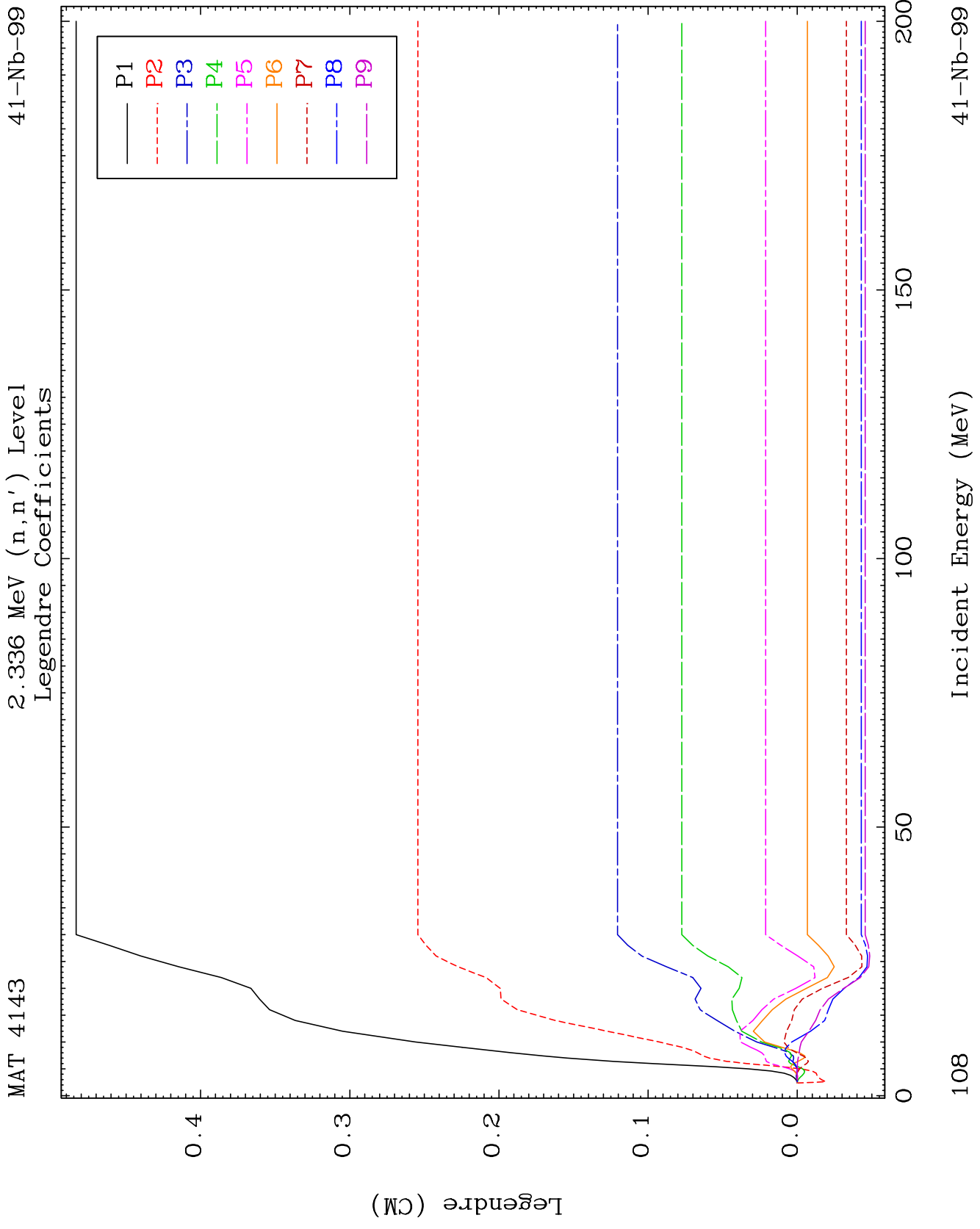


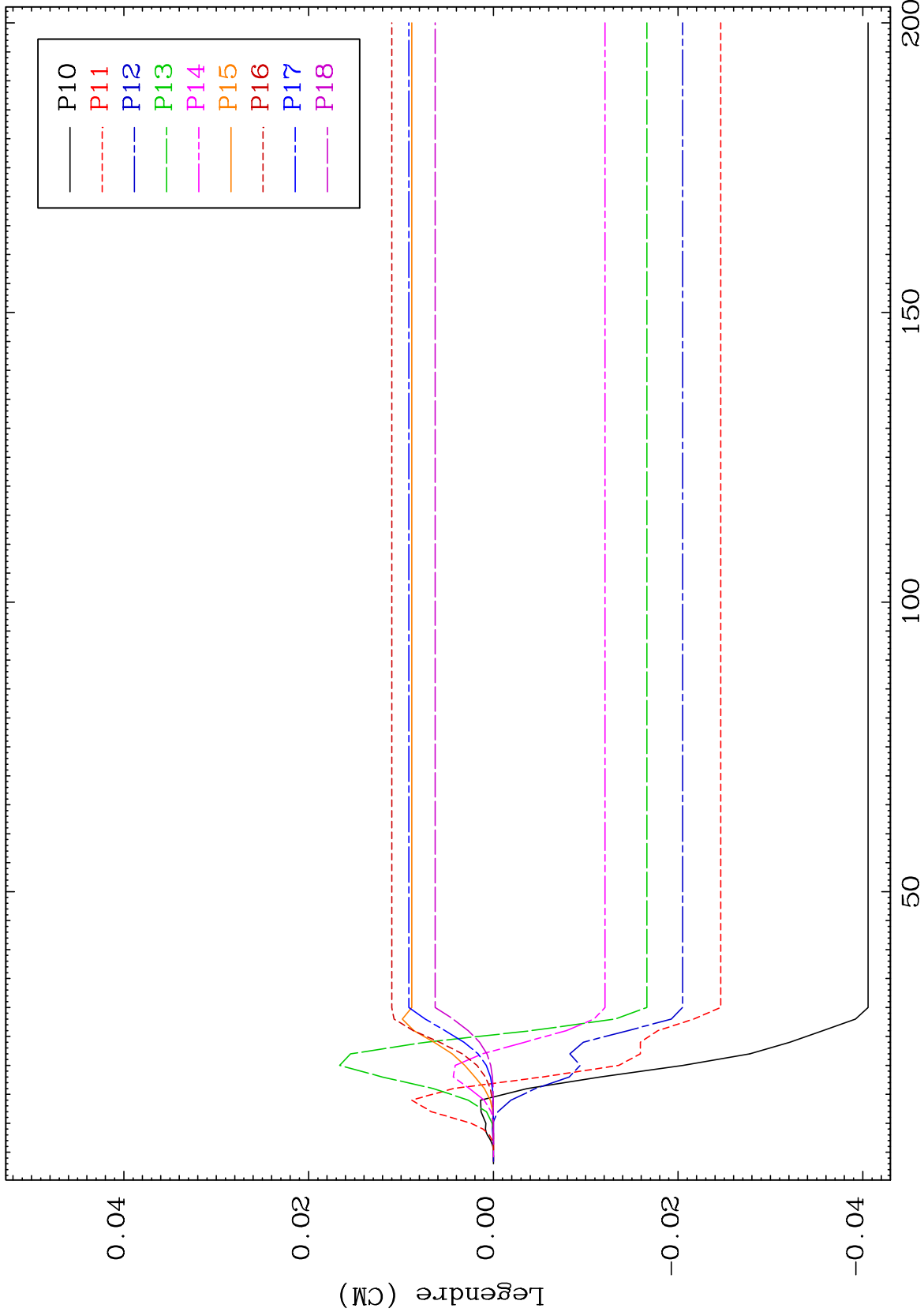
106

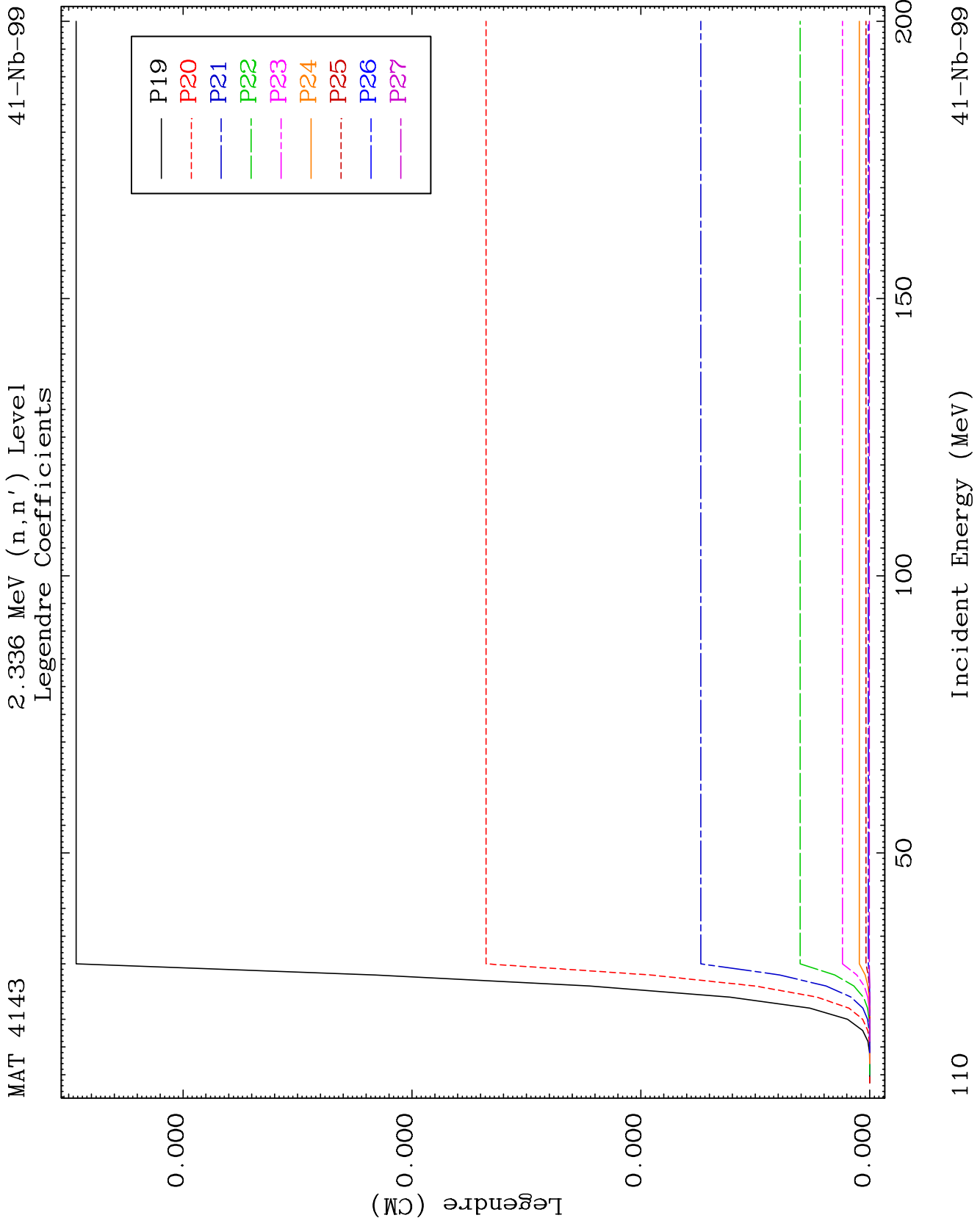
Incident Energy (MeV)

41-Nb-99





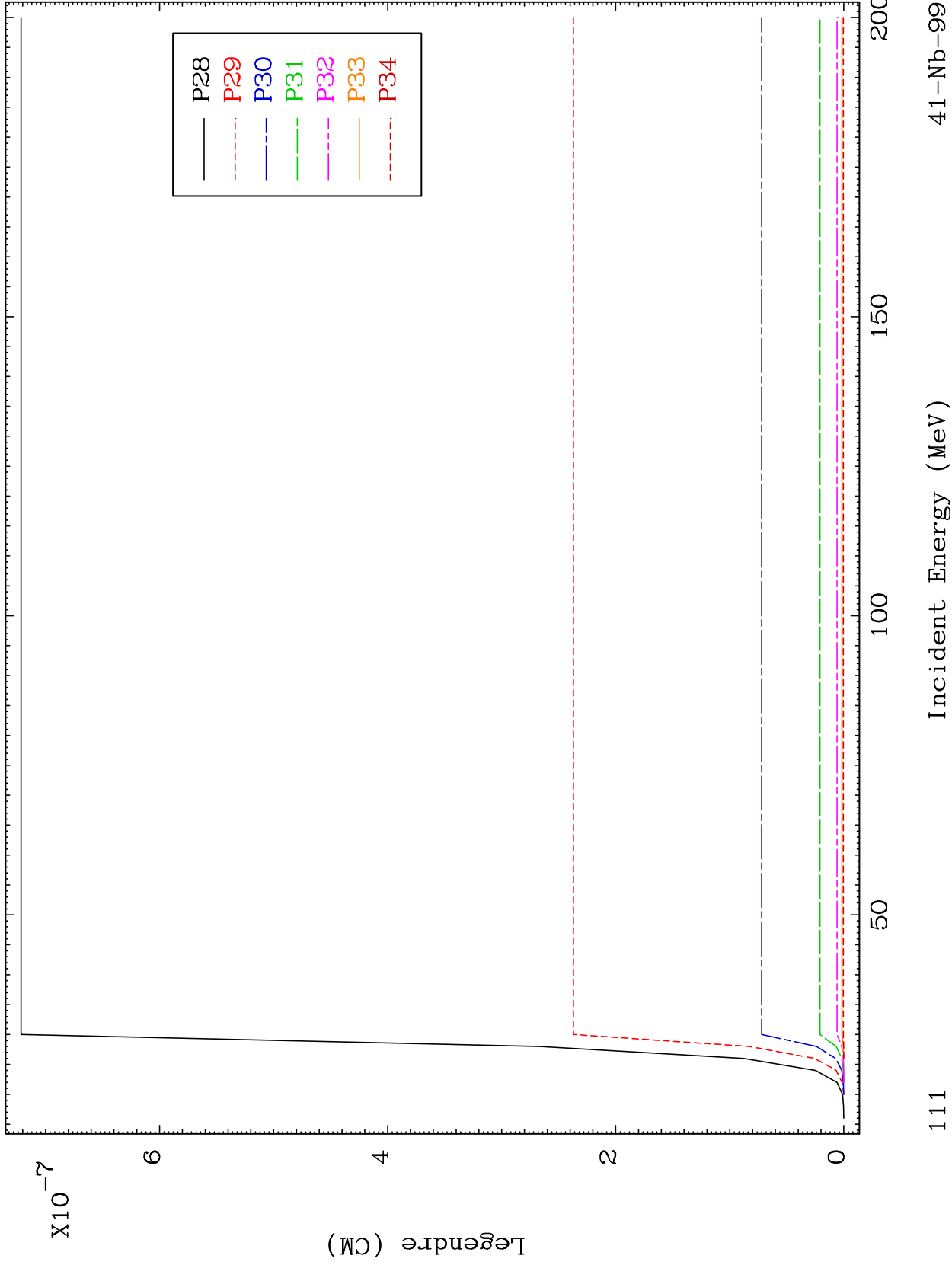




MAT 4143

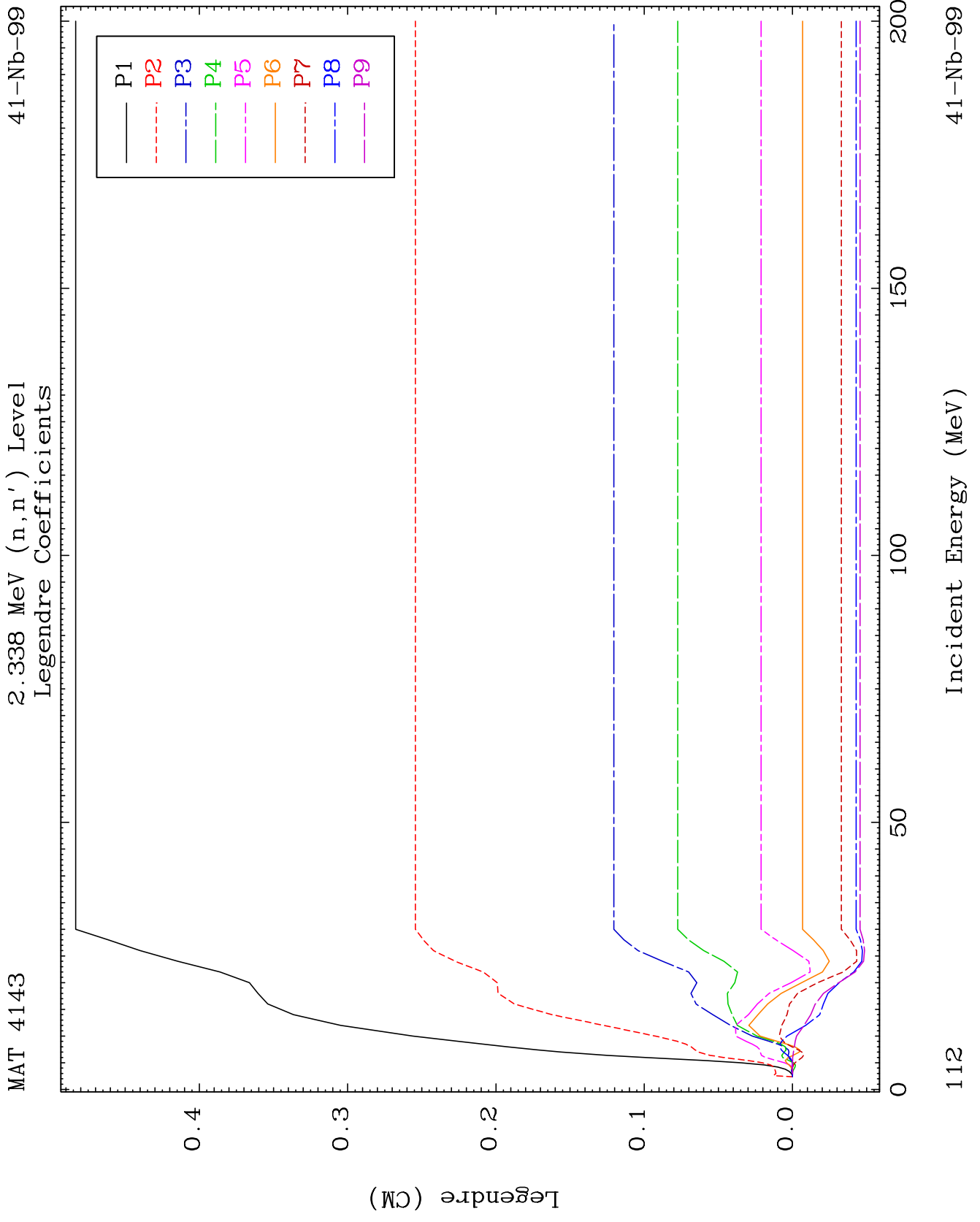
2.336 MeV (n,n') Level  
Legendre Coefficients

41-Nb-99



111

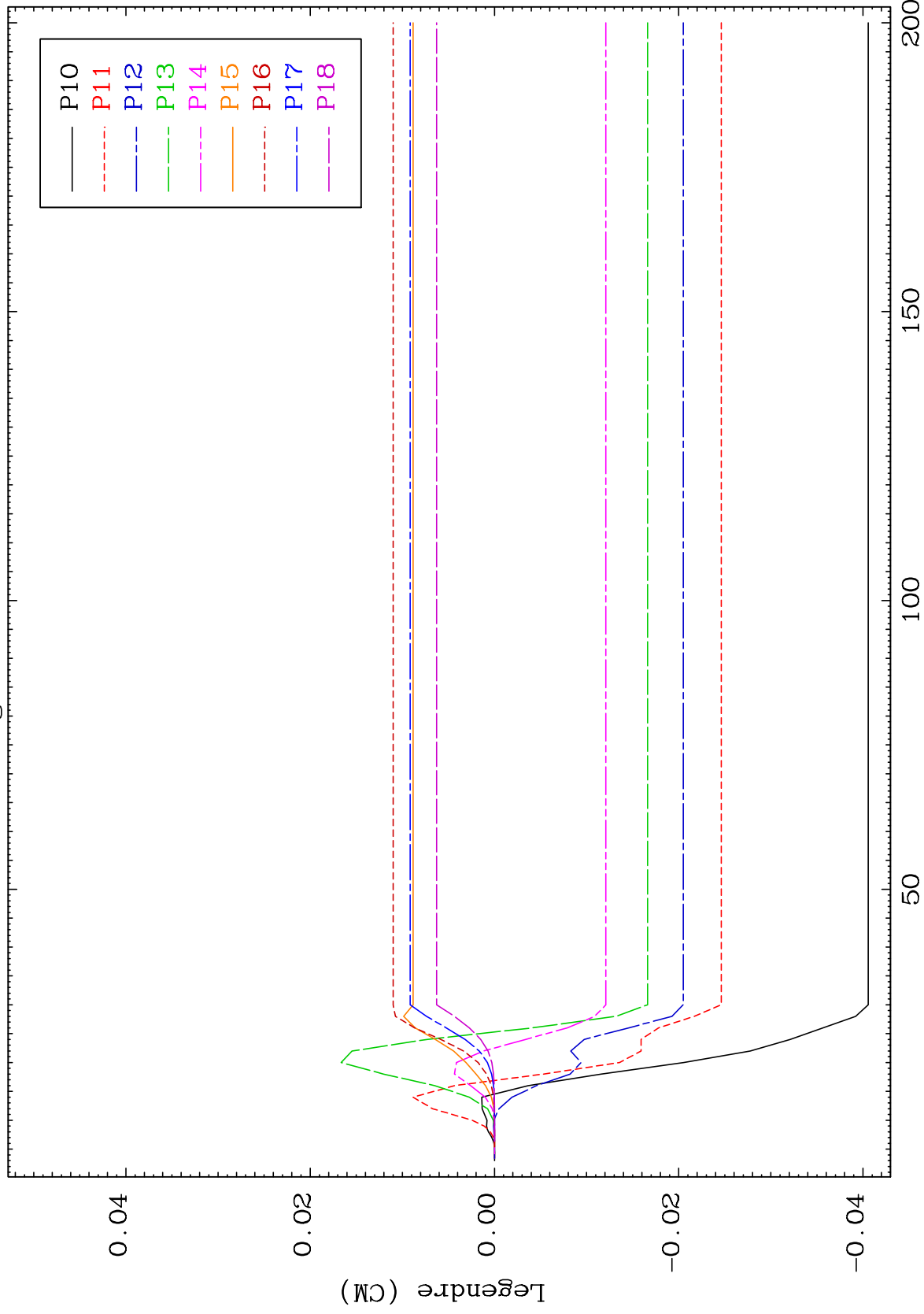




MAT 4143

2.338 MeV (n,n') Level  
Legendre Coefficients

41-Nb-99



113

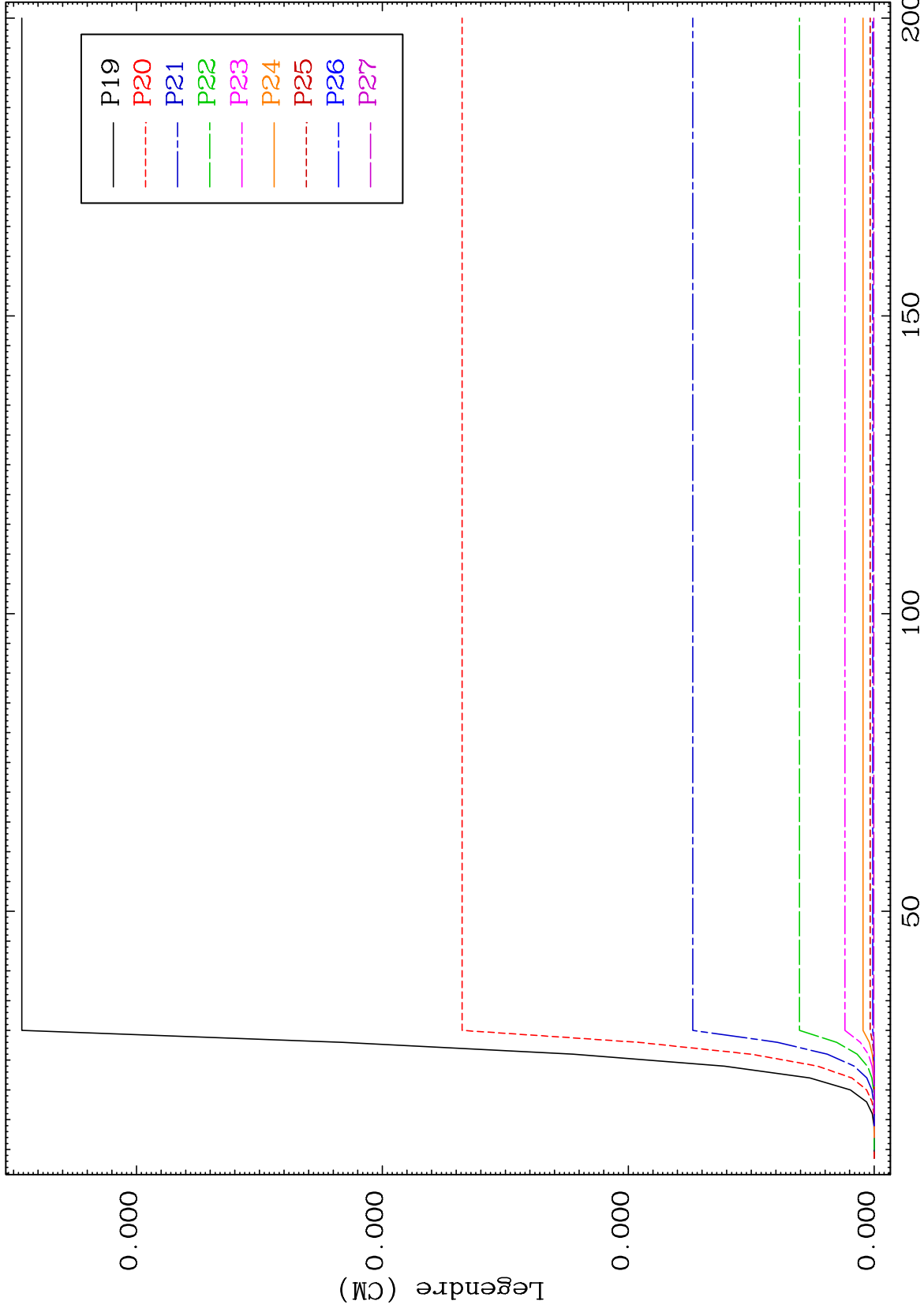
Incident Energy (MeV)

41-Nb-99

MAT 4143

2.338 MeV (n,n') Level  
Legendre Coefficients

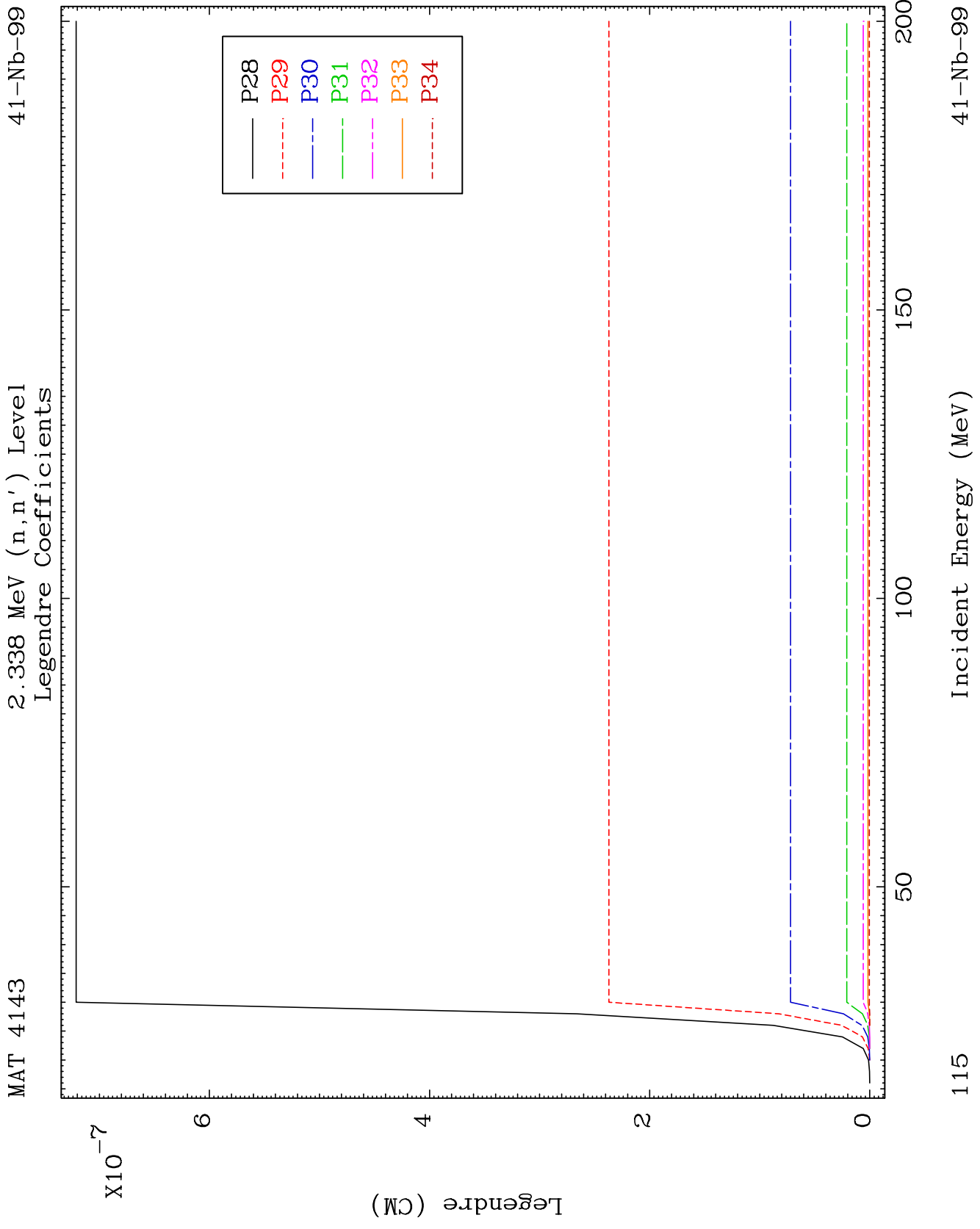
41-Nb-99

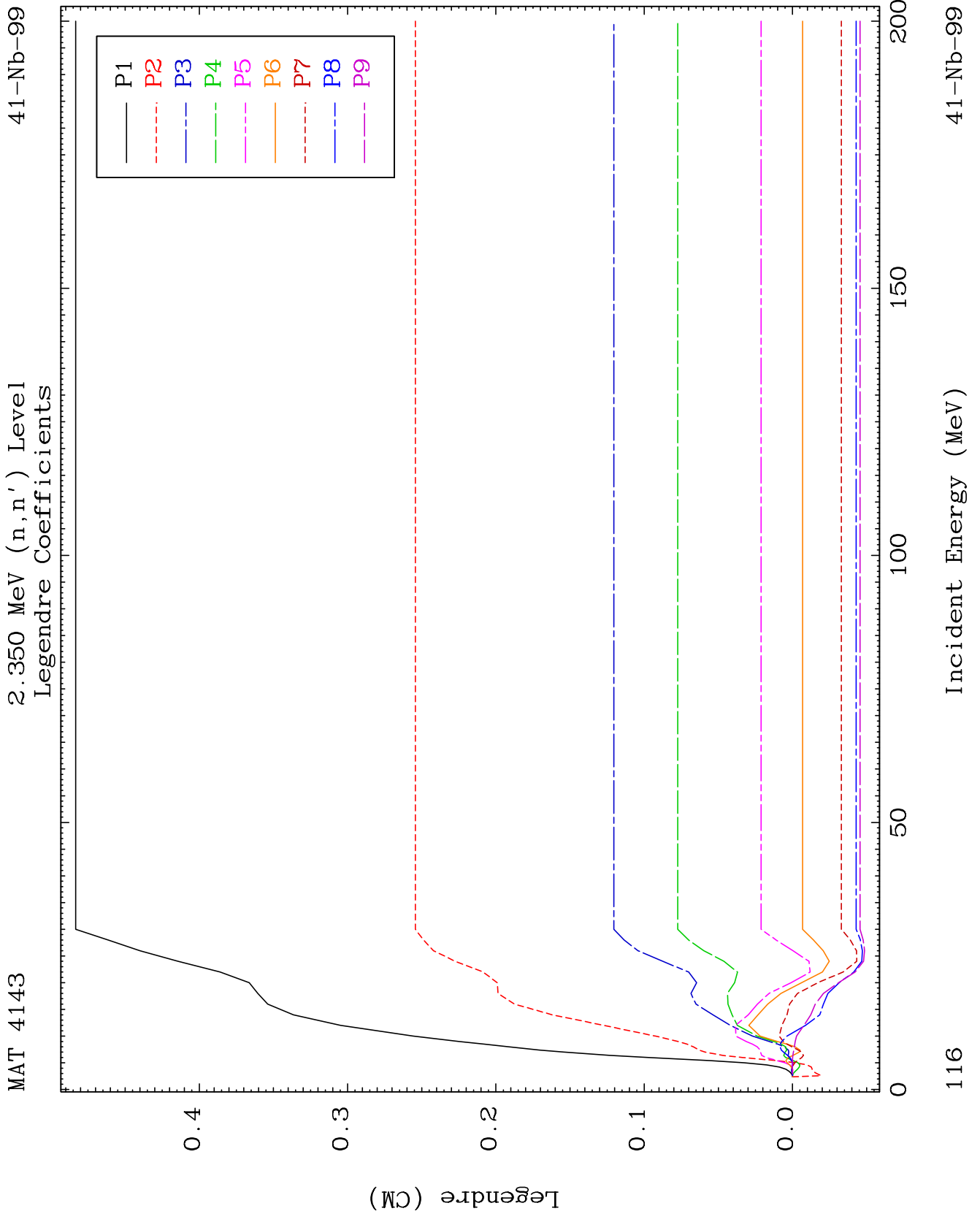


114

Incident Energy (MeV)

41-Nb-99

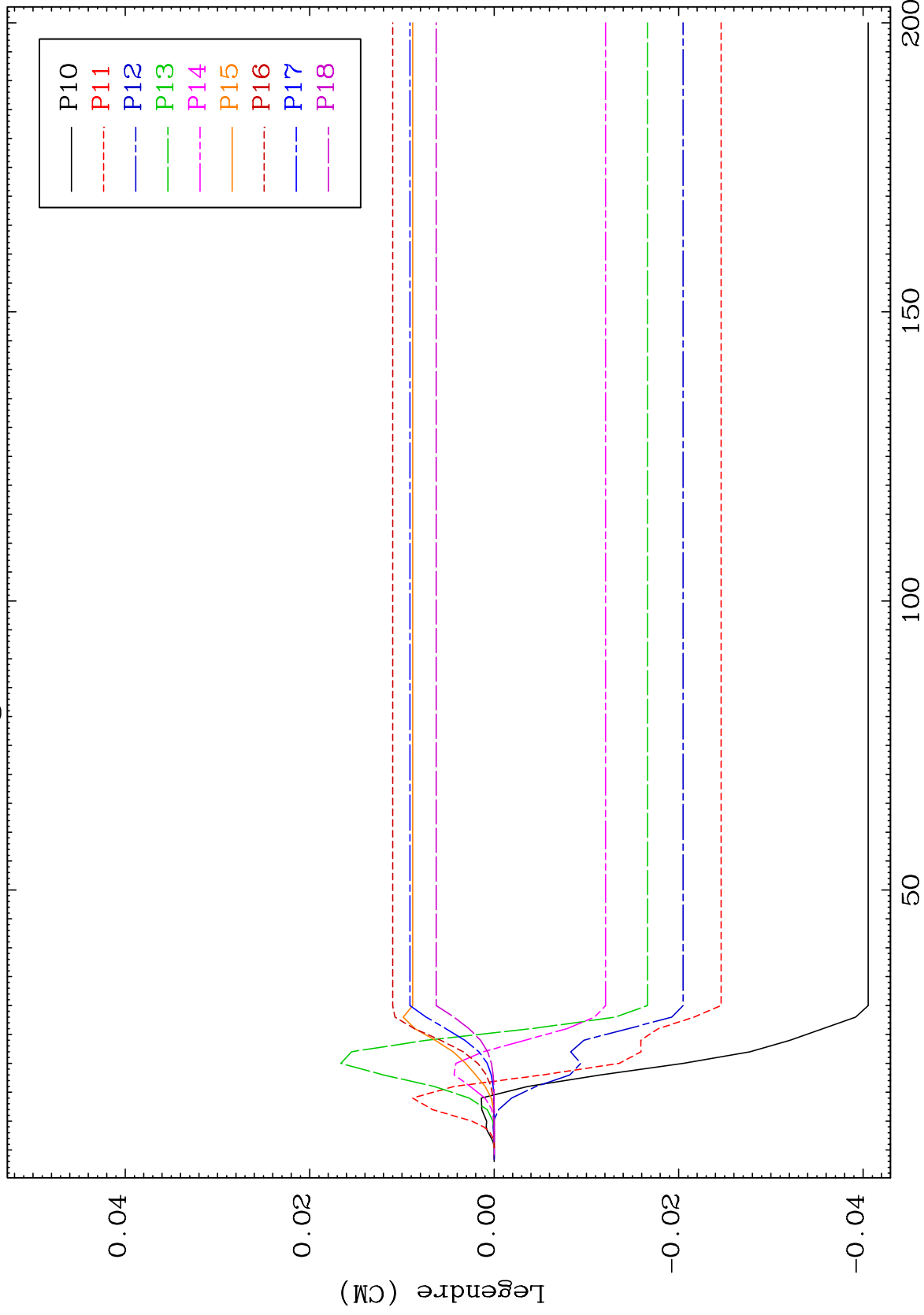




MAT 4143

2.350 MeV (n,n') Level  
Legendre Coefficients

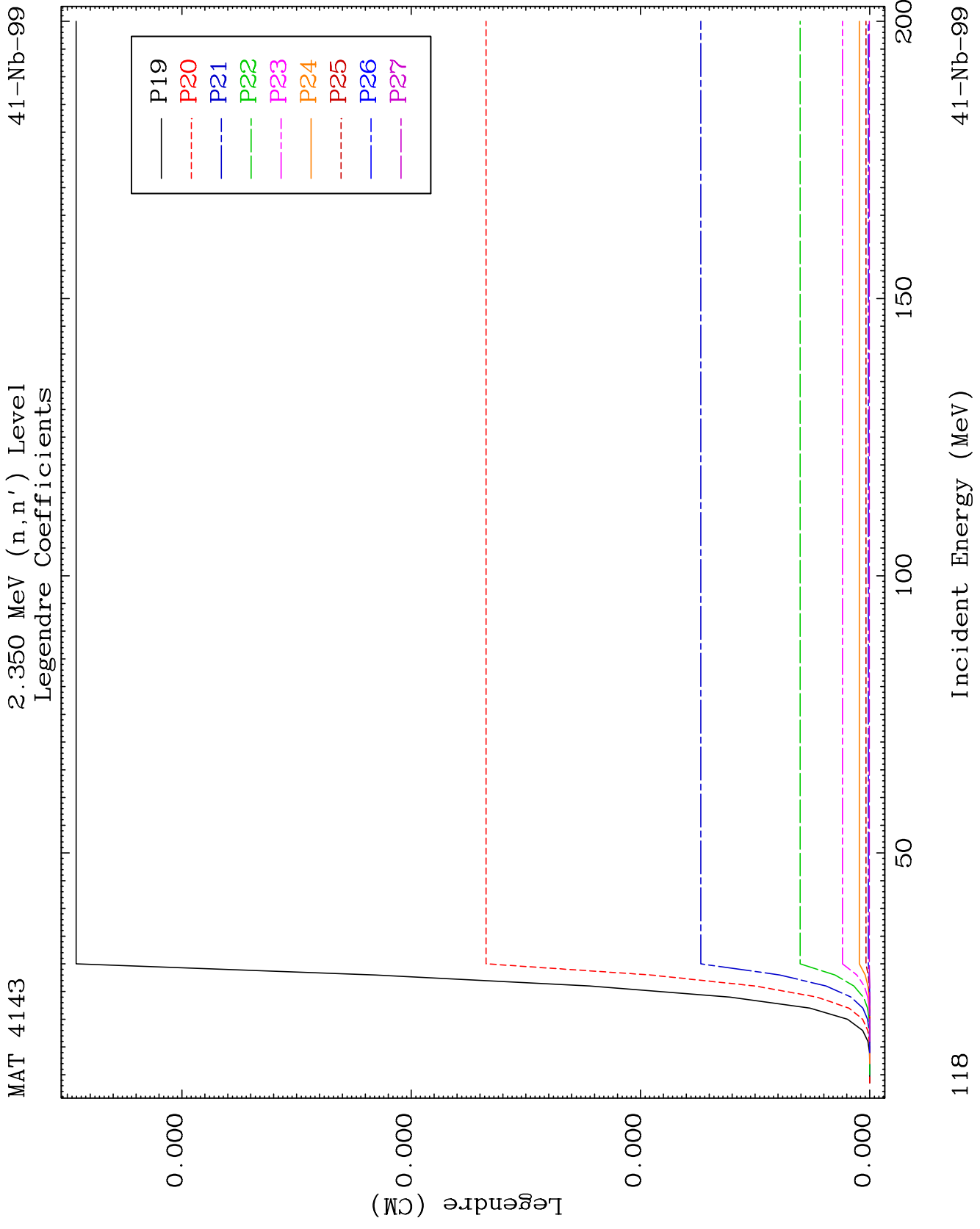
41-Nb-99

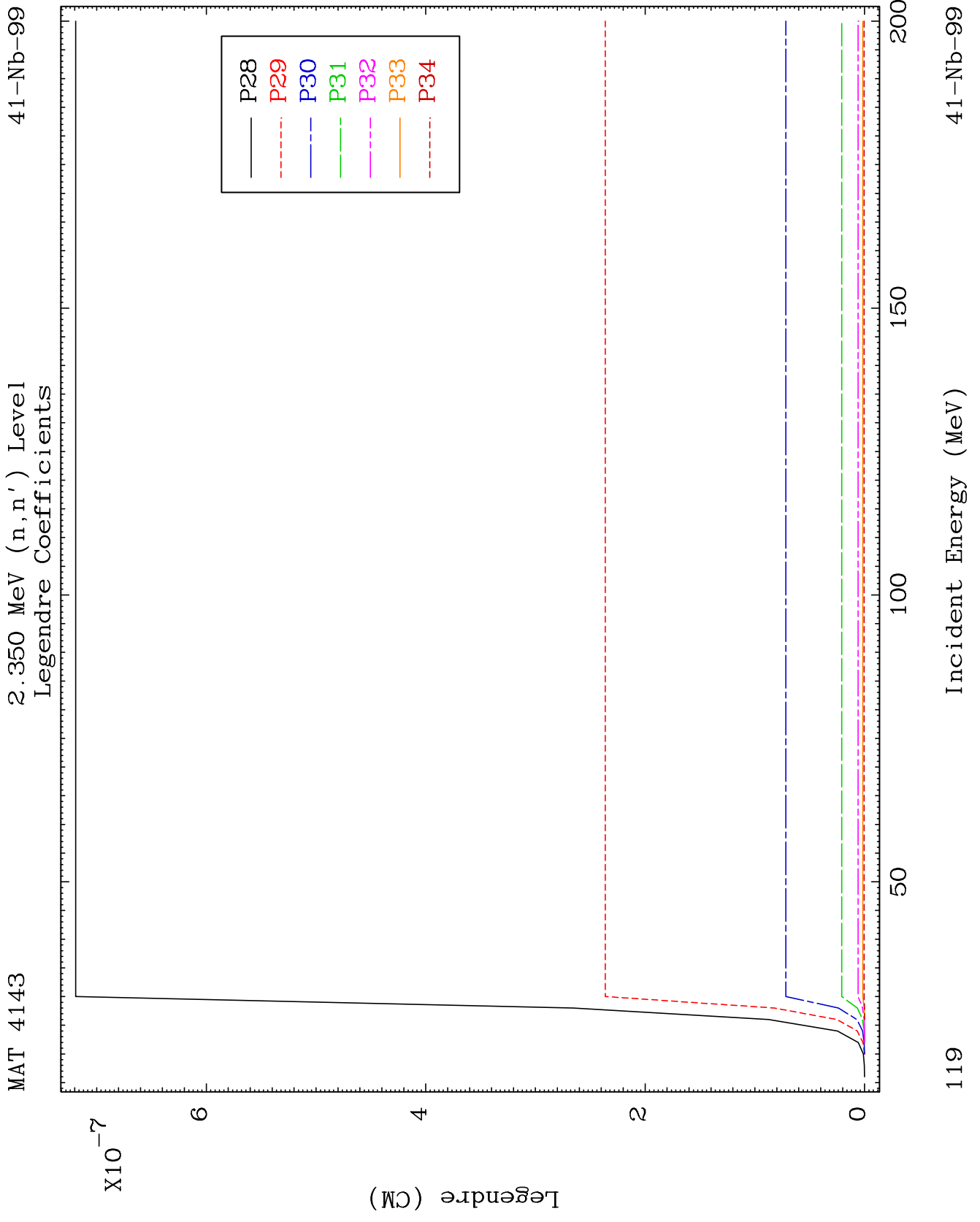


117

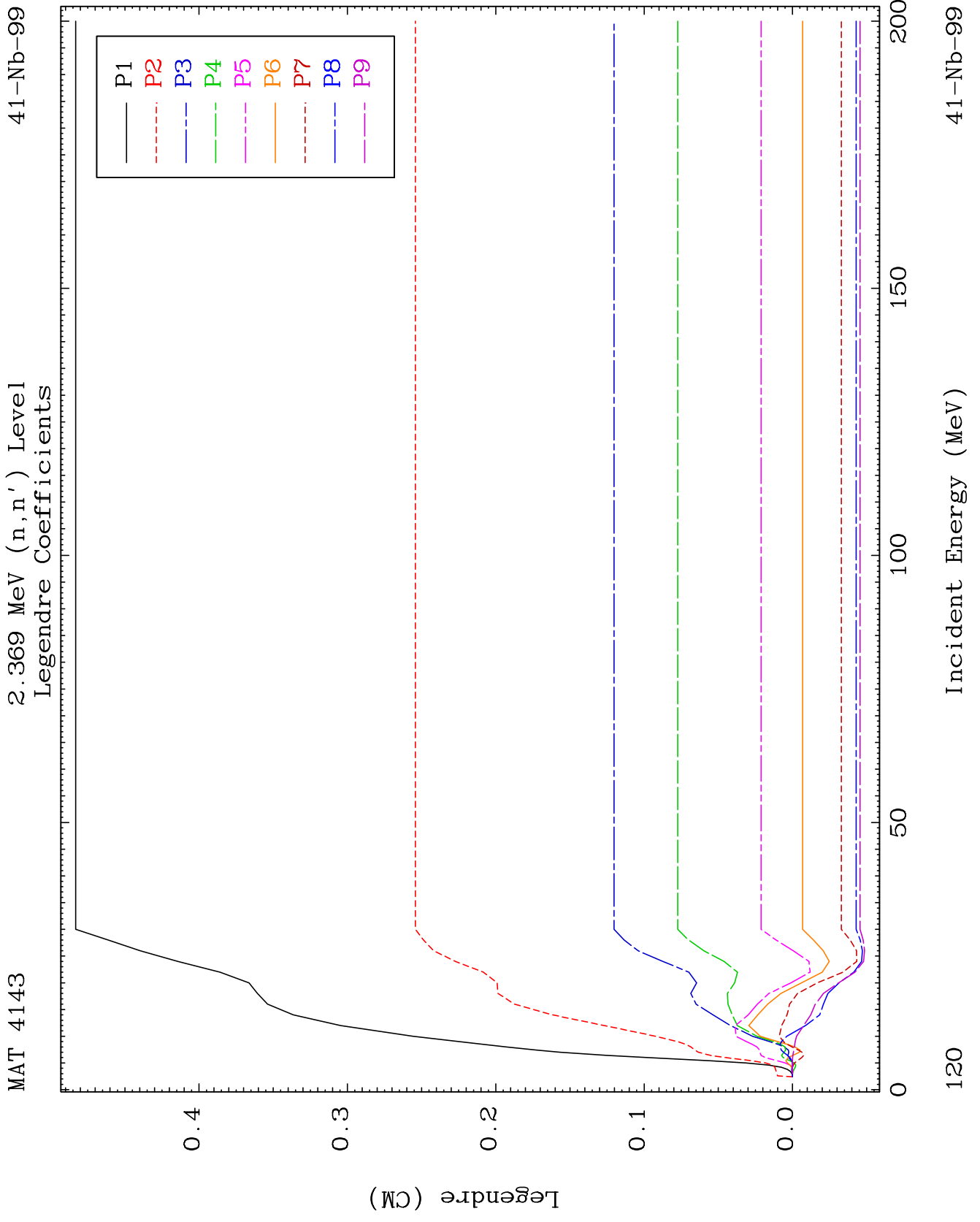
Incident Energy (MeV)

41-Nb-99





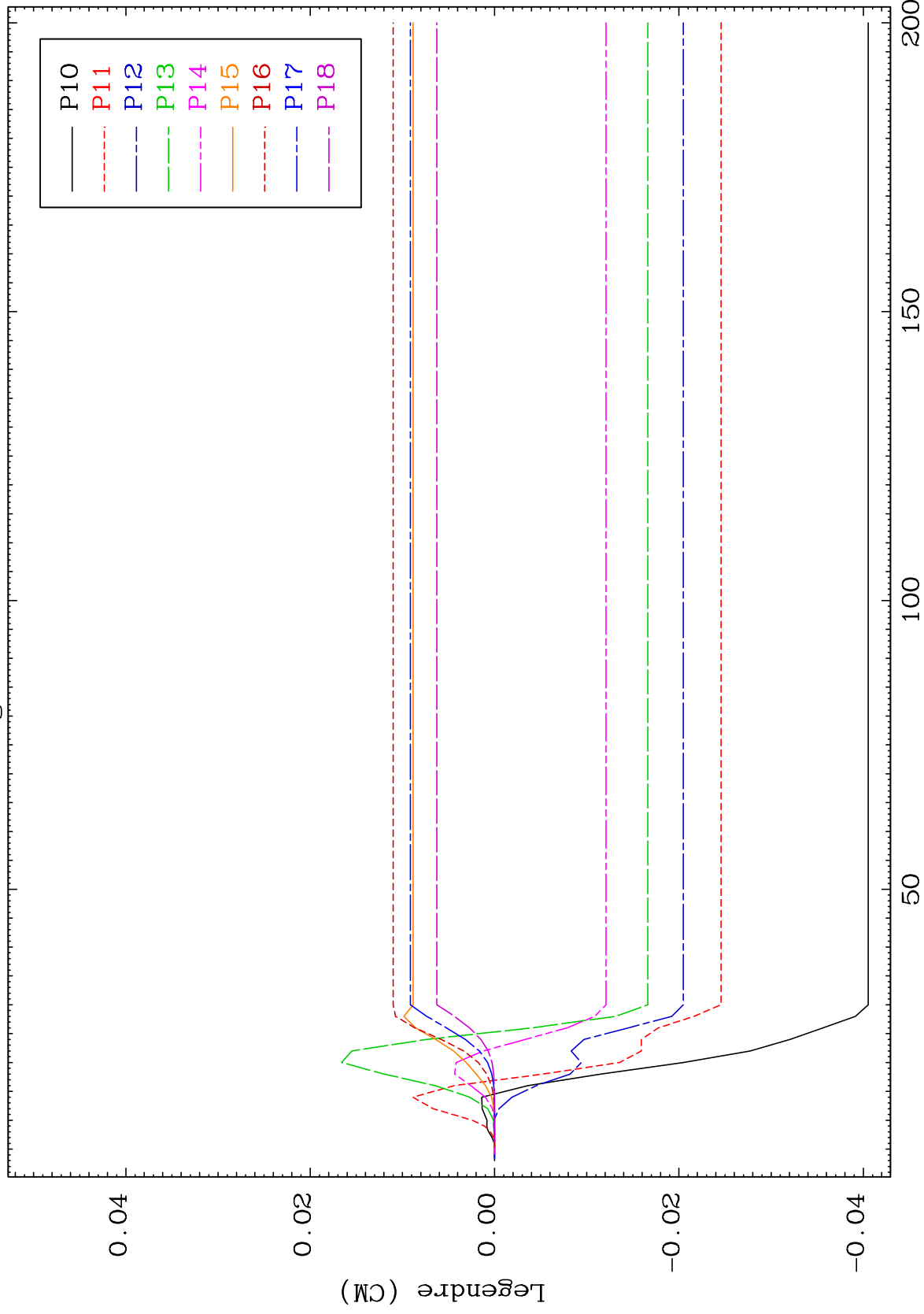




MAT 4143

2.369 MeV (n,n') Level  
Legendre Coefficients

41-Nb-99



121

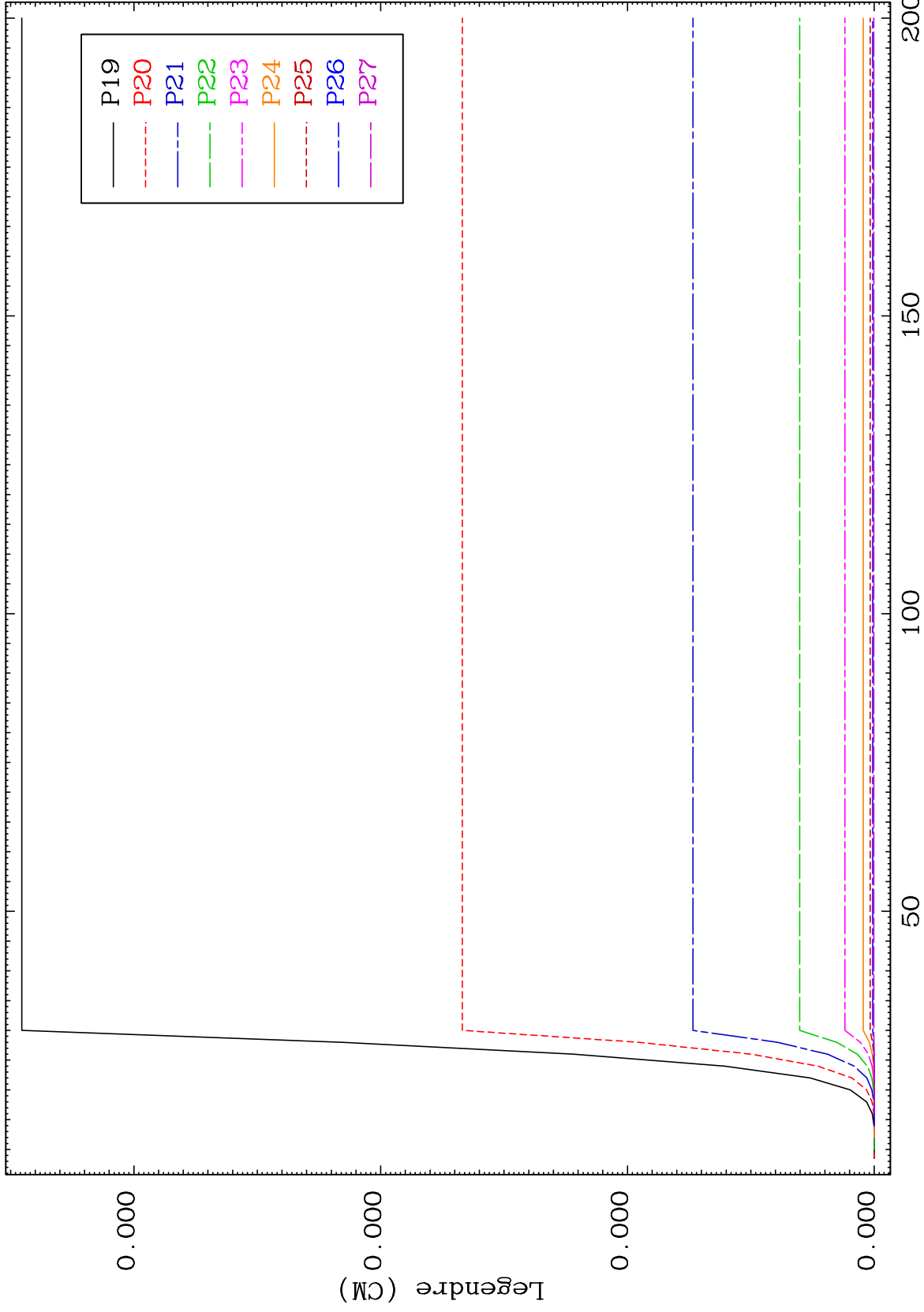
Incident Energy (MeV)

41-Nb-99

MAT 4143

2.369 MeV (n, n') Level  
Legendre Coefficients

41-Nb-99



122

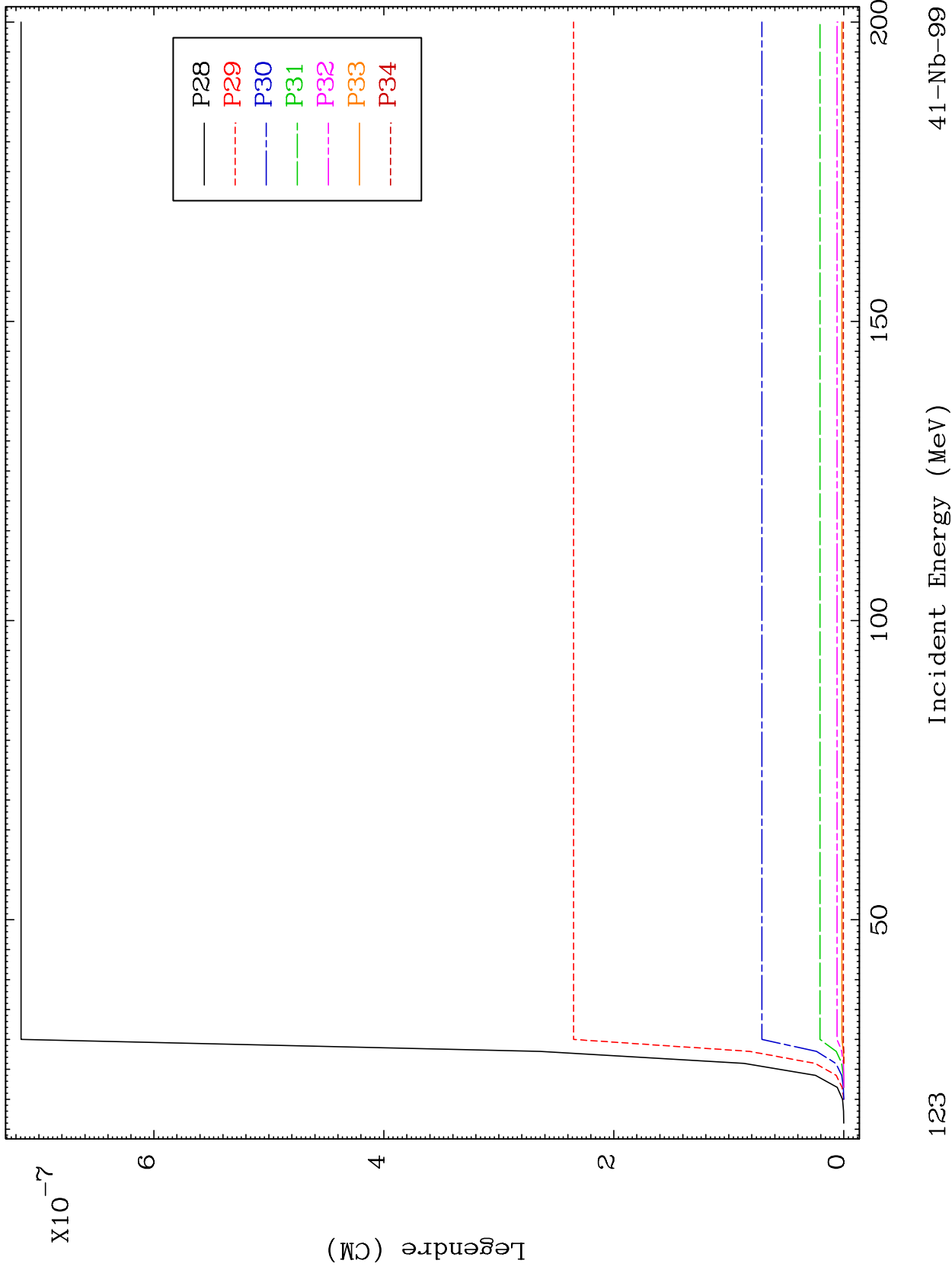
Incident Energy (MeV)

41-Nb-99

MAT 4143

2.369 MeV (n,n') Level  
Legendre Coefficients

41-Nb-99



123

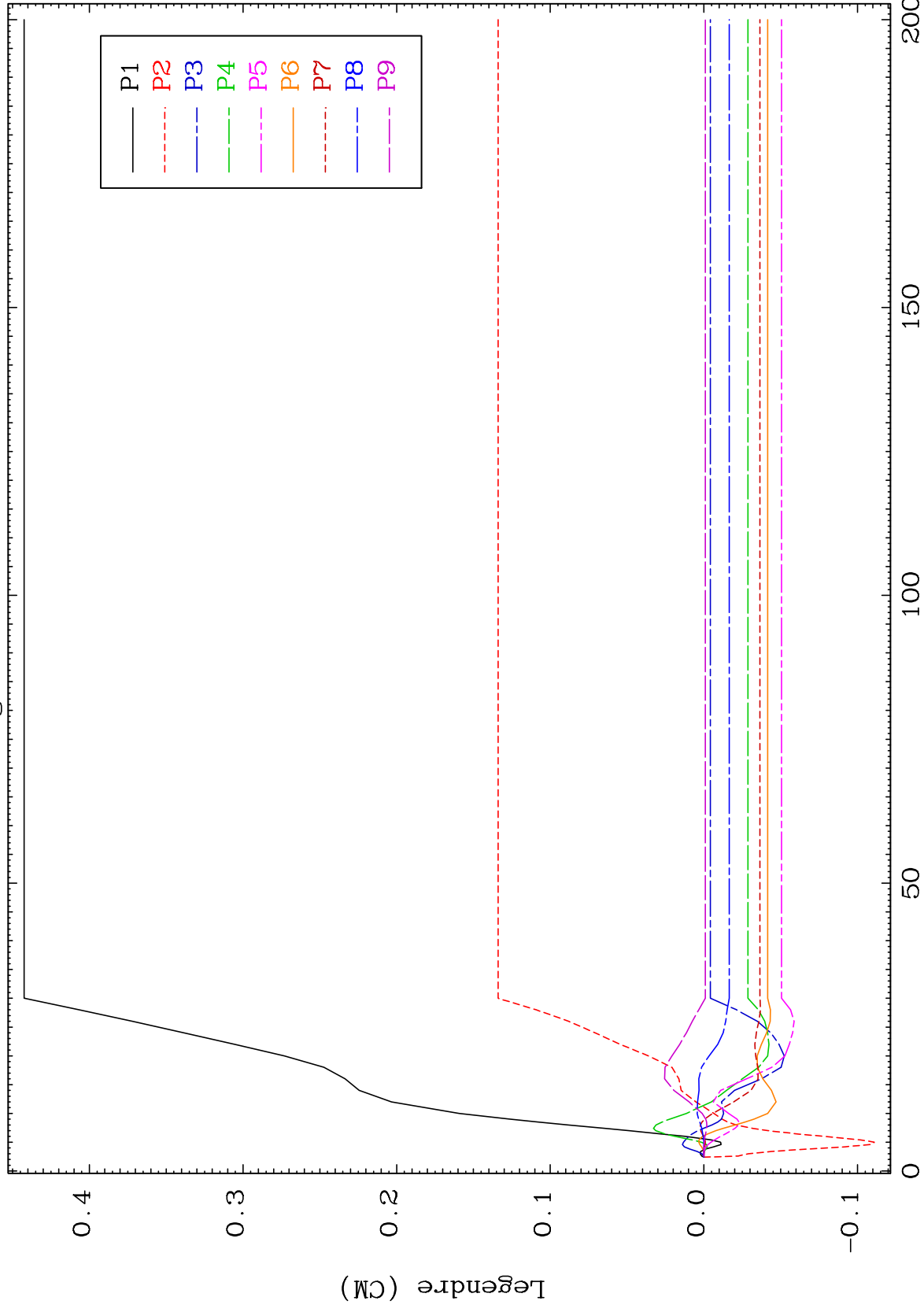
Incident Energy (MeV)

41-Nb-99

MAT 4143

2.371 MeV (n,n') Level  
Legendre Coefficients

41-Nb-99



124

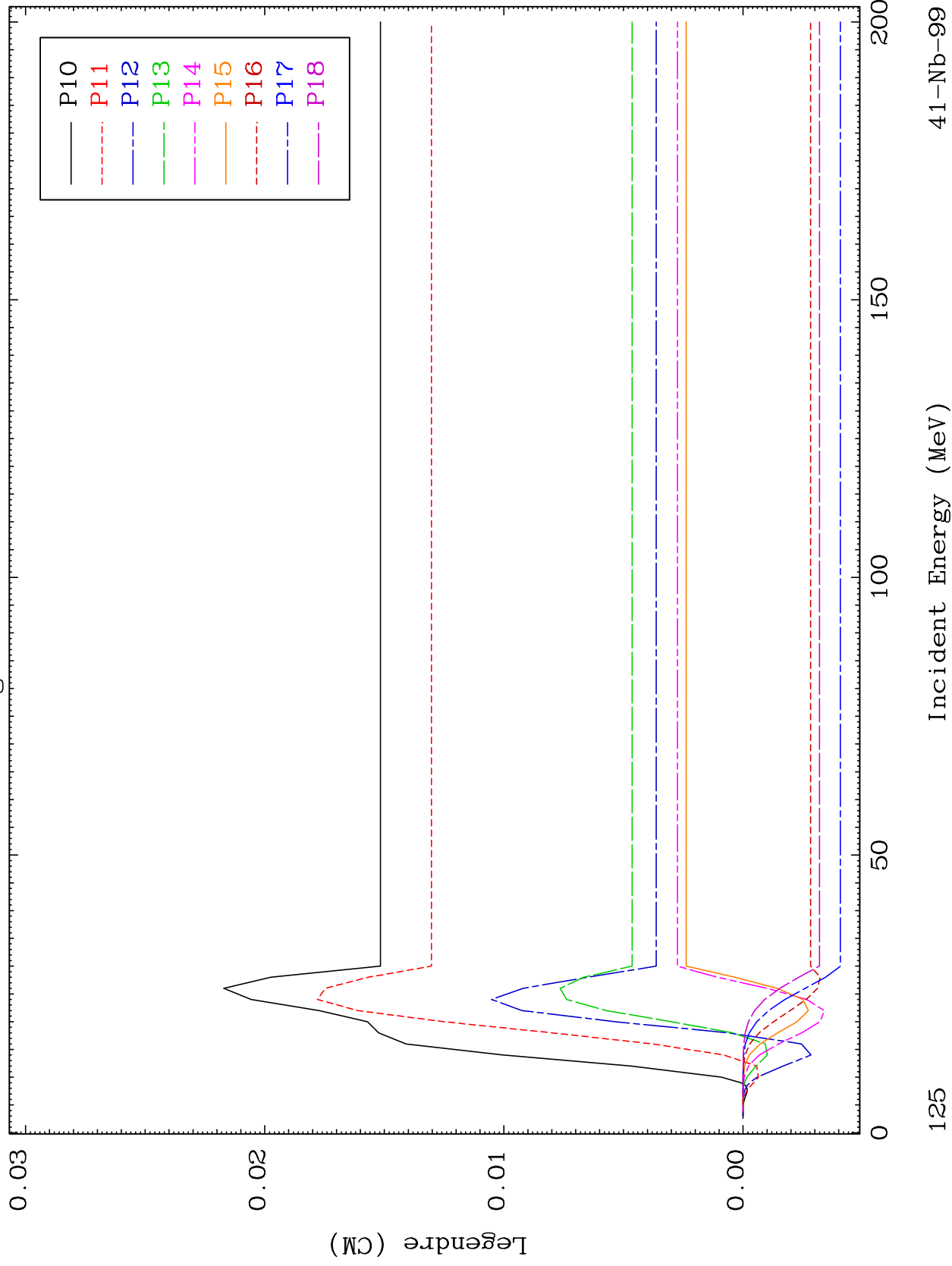
Incident Energy (MeV)

41-Nb-99

MAT 4143

2.371 MeV (n,n') Level  
Legendre Coefficients

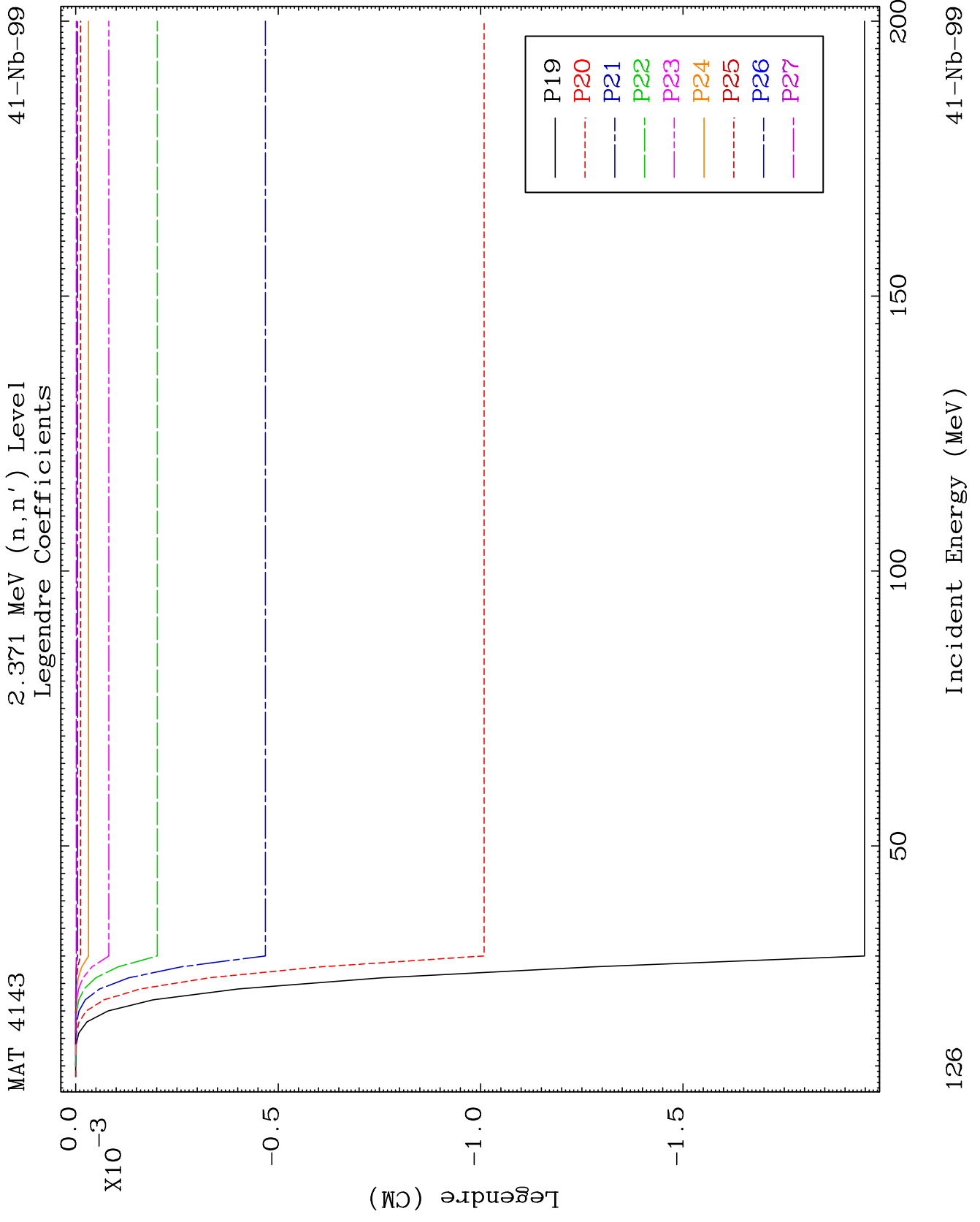
41-Nb-99

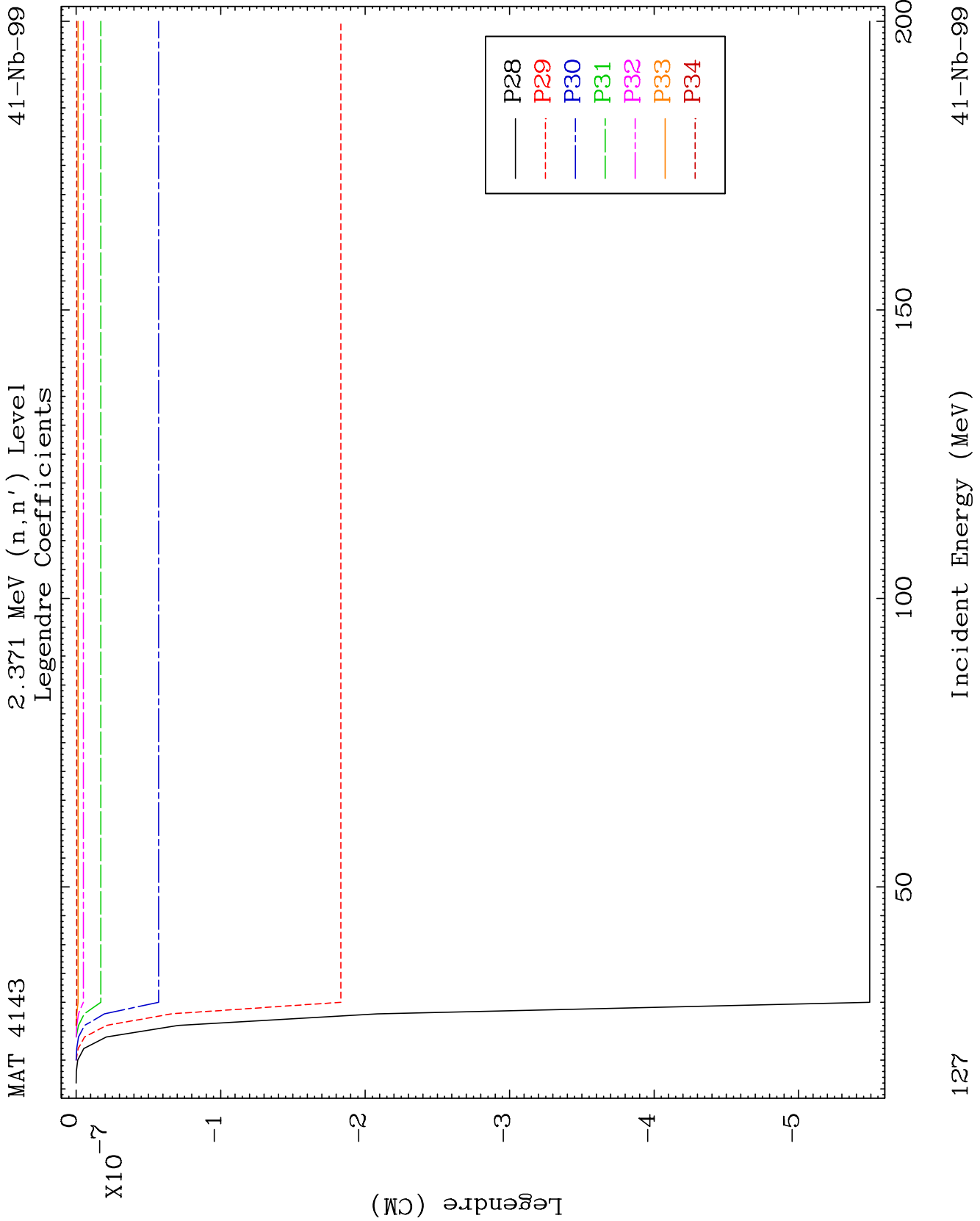


125

Incident Energy (MeV)

41-Nb-99



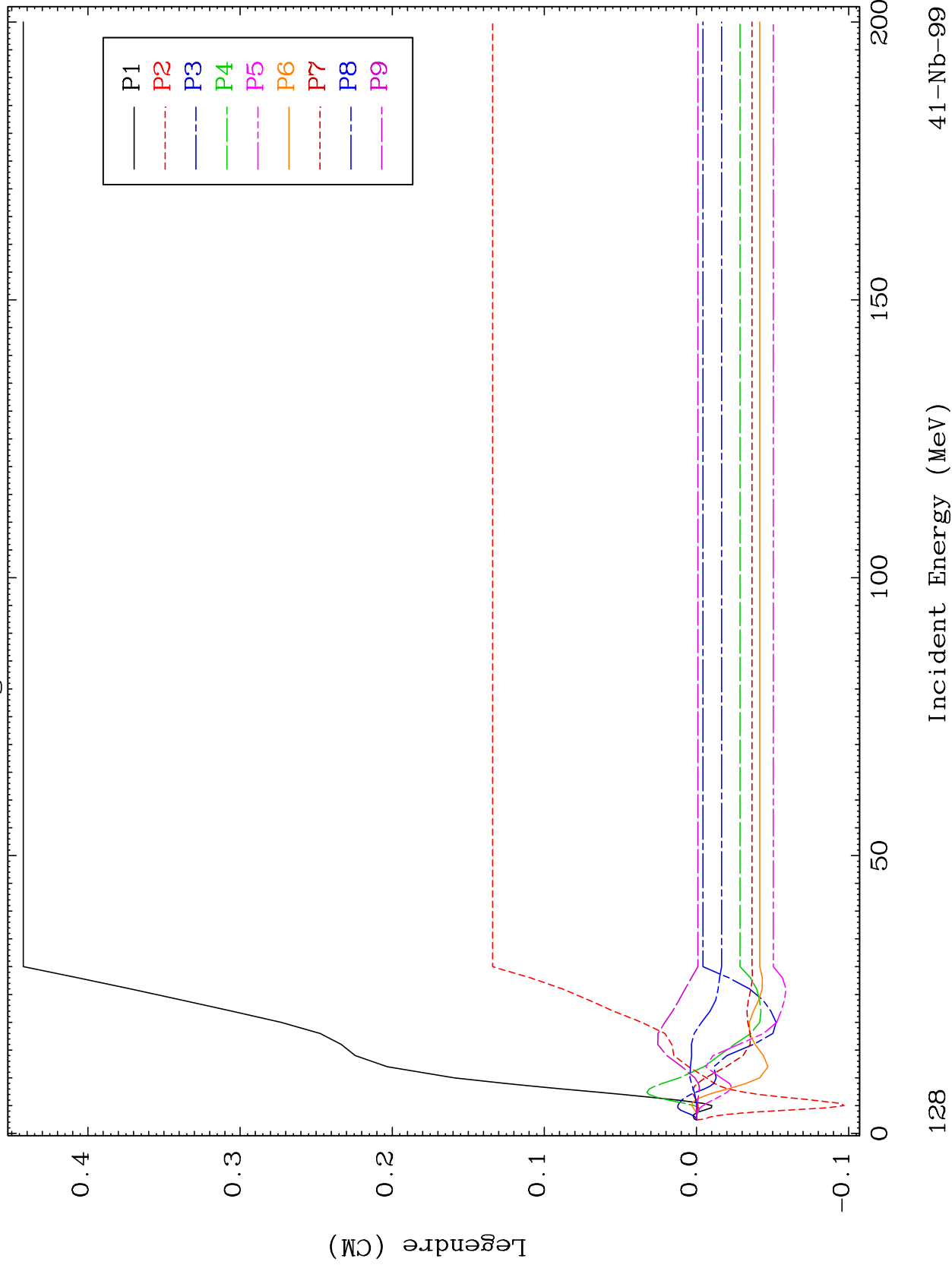




MAT 4143

2.374 MeV (n,n') Level  
Legendre Coefficients

41-Nb-99

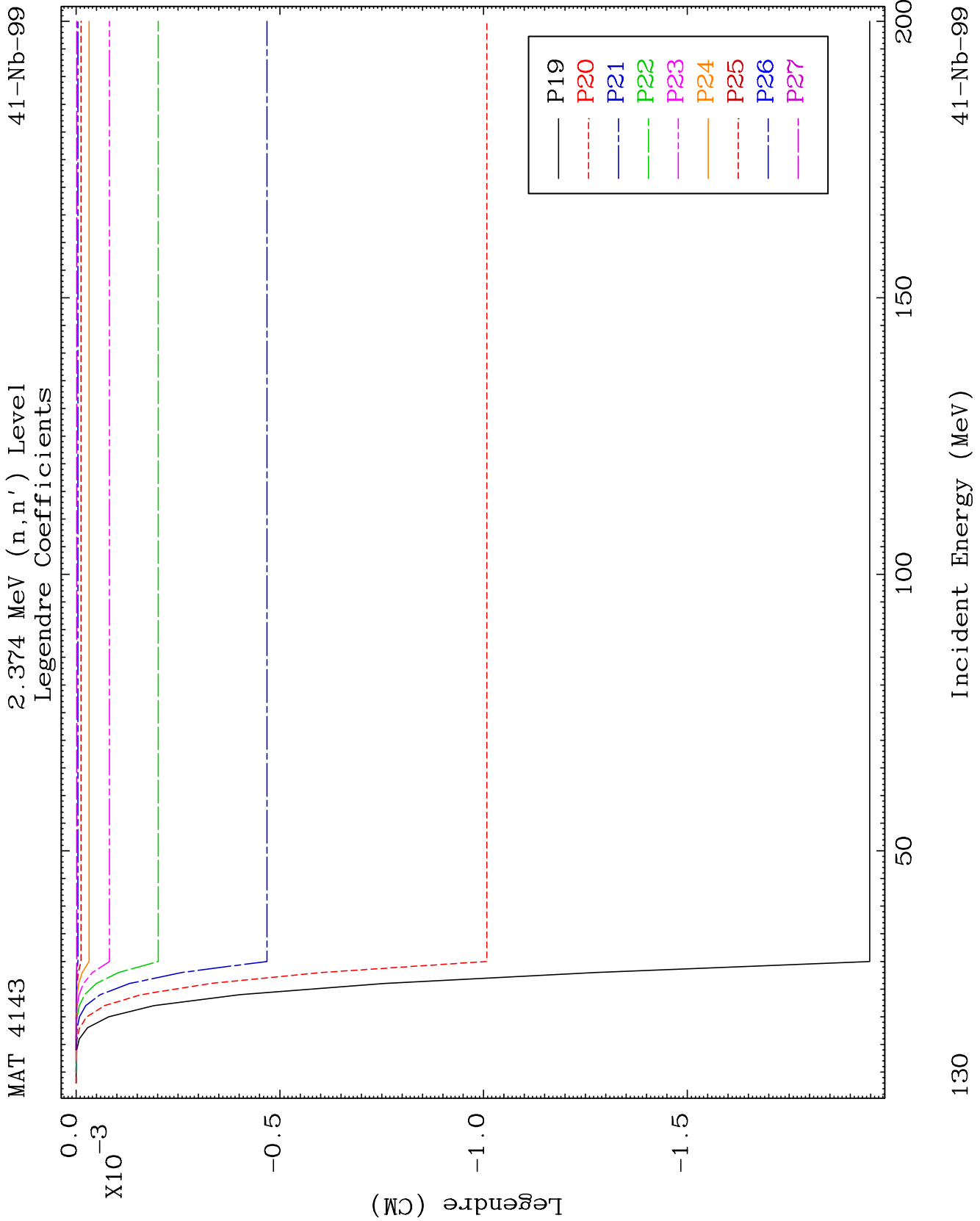


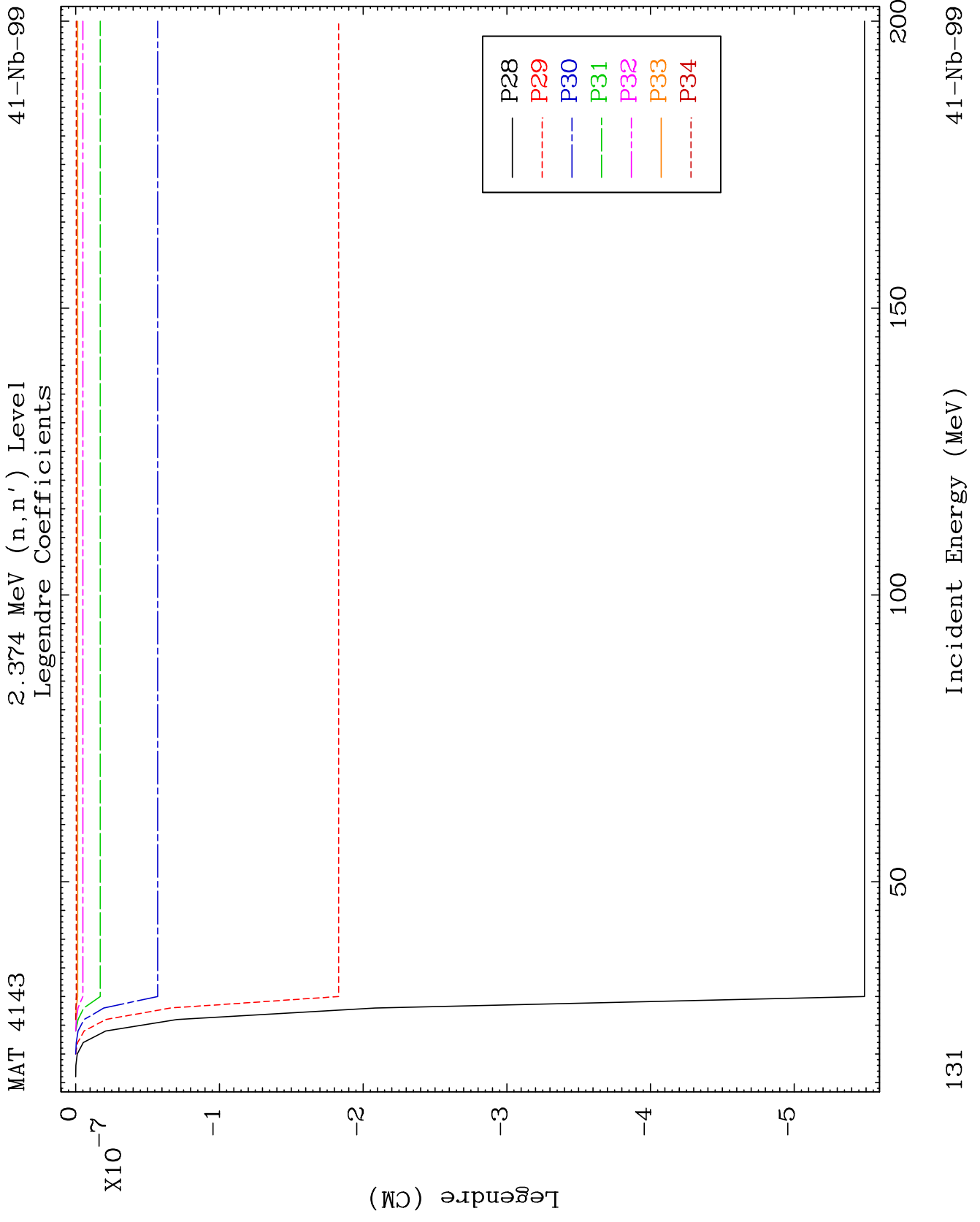
41-Nb-99

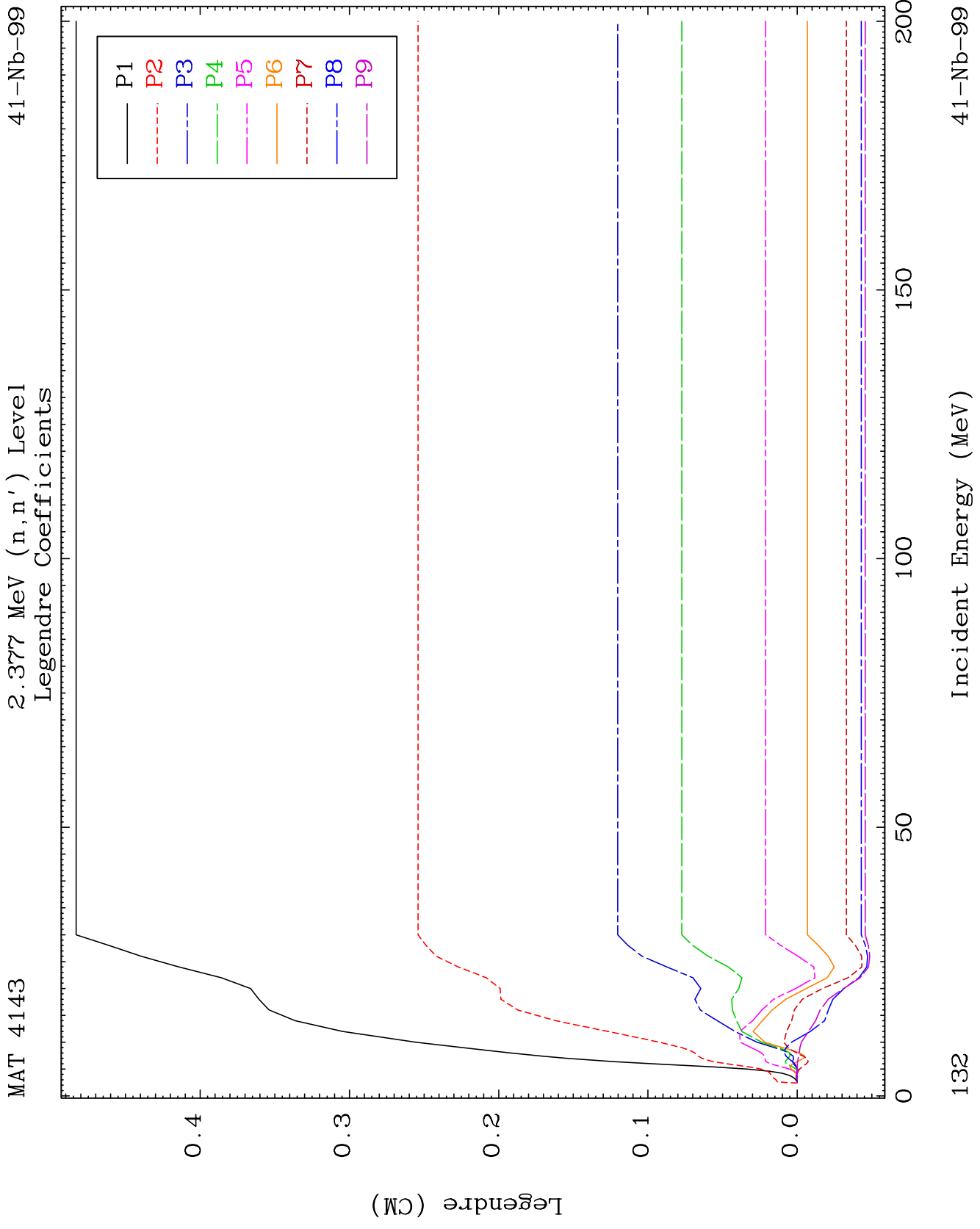
Incident Energy (MeV)

128





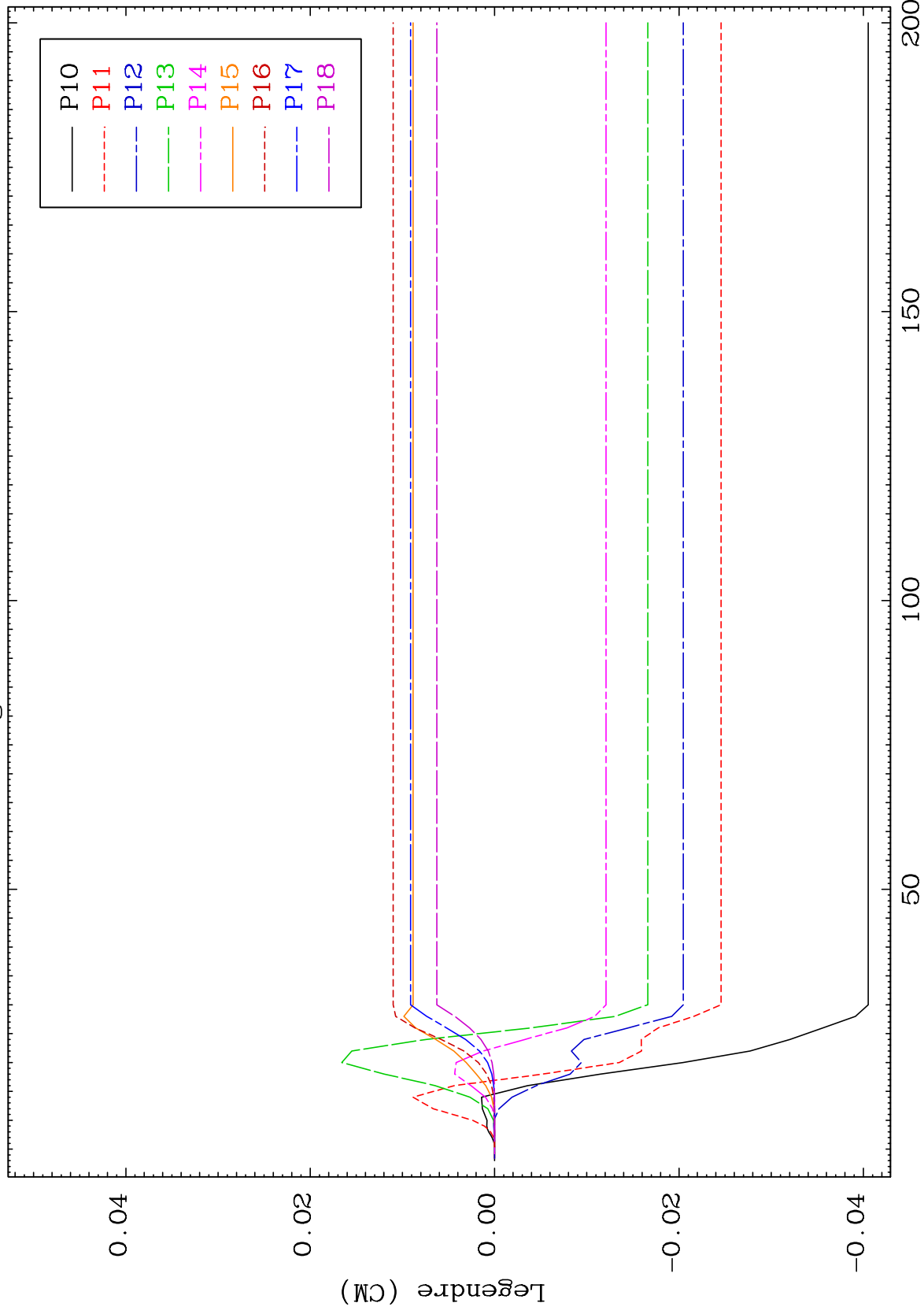




MAT 4143

2.377 MeV (n,n') Level  
Legendre Coefficients

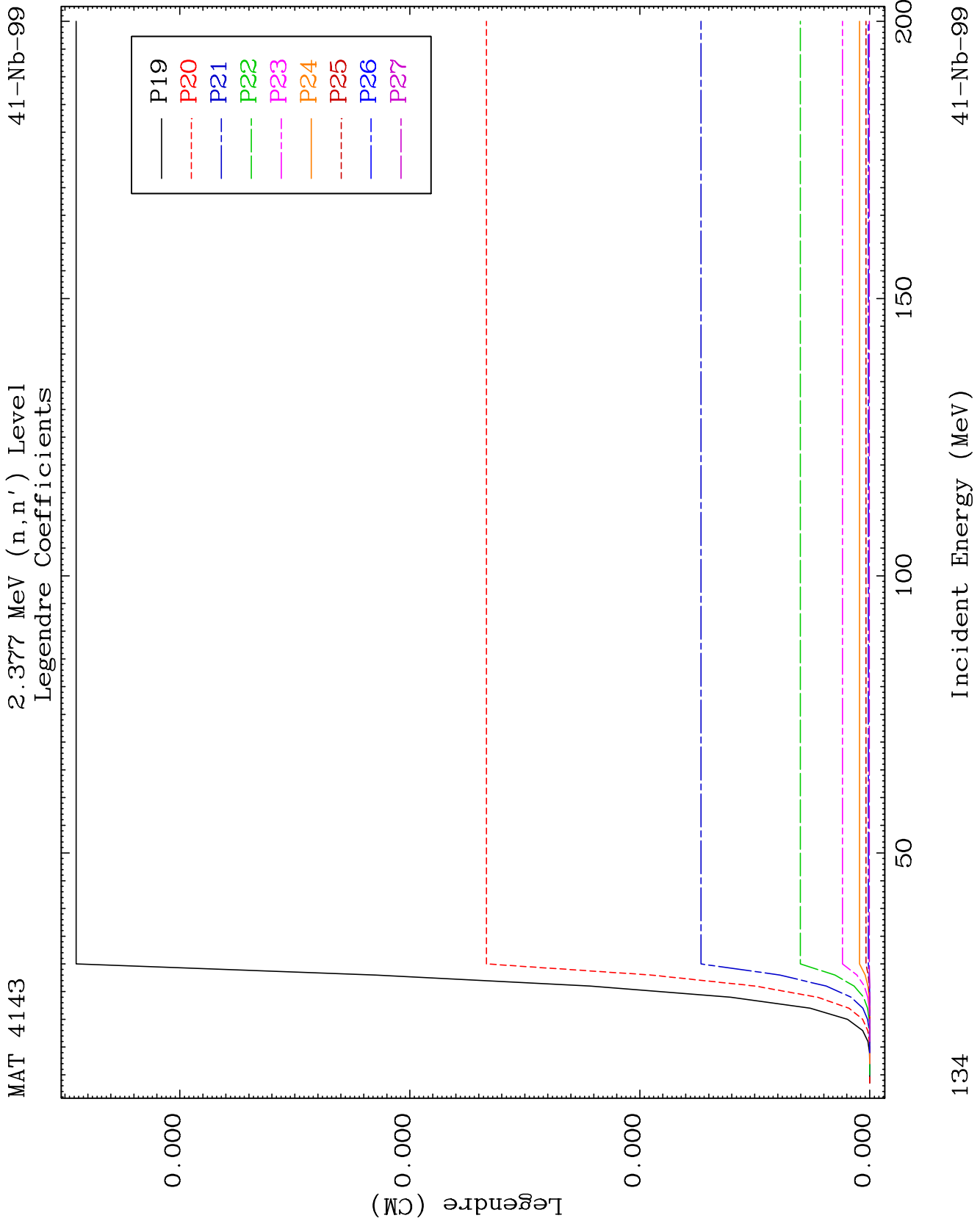
41-Nb-99

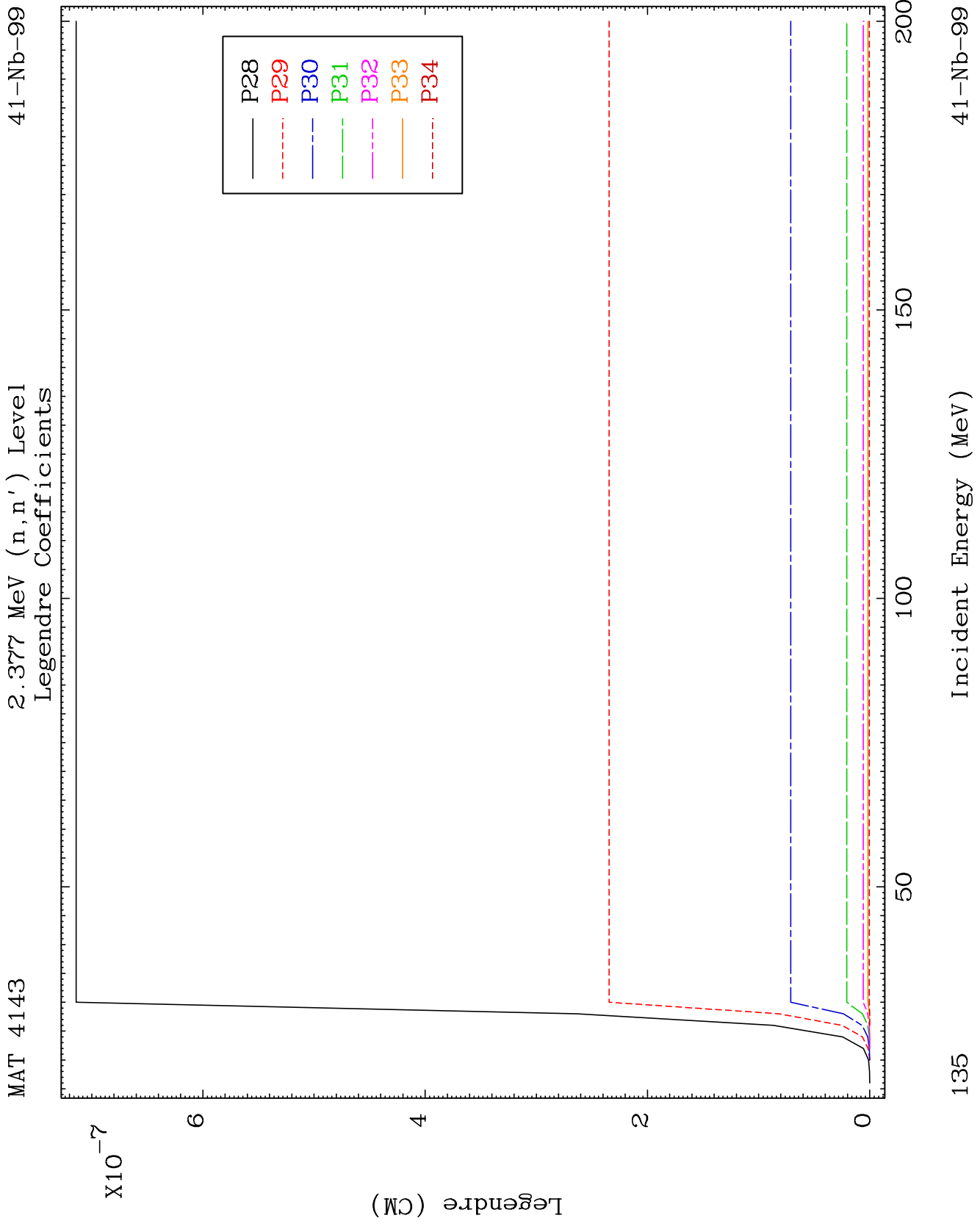


133

Incident Energy (MeV)

41-Nb-99



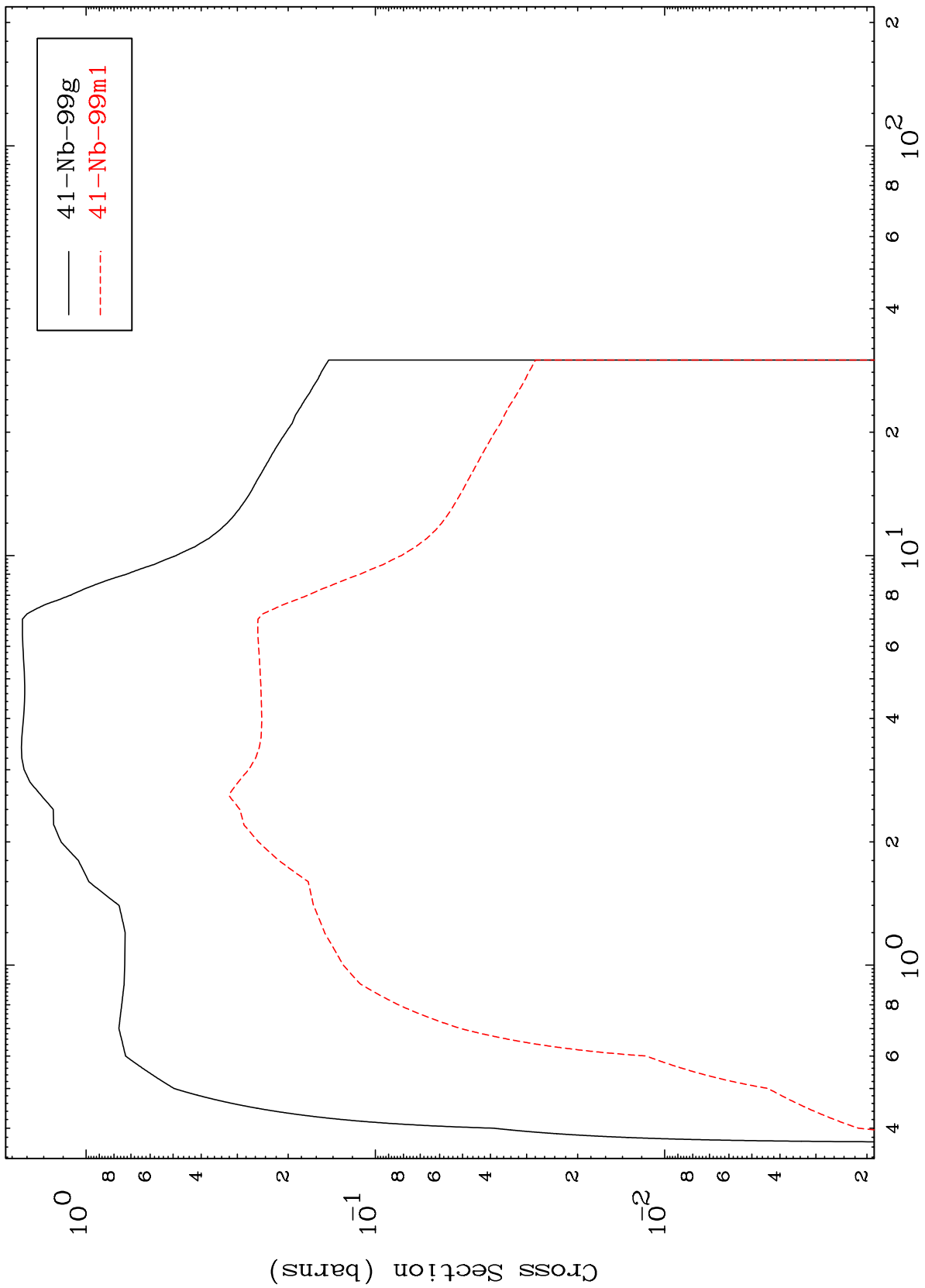




MAT 4143

41-Nb-99

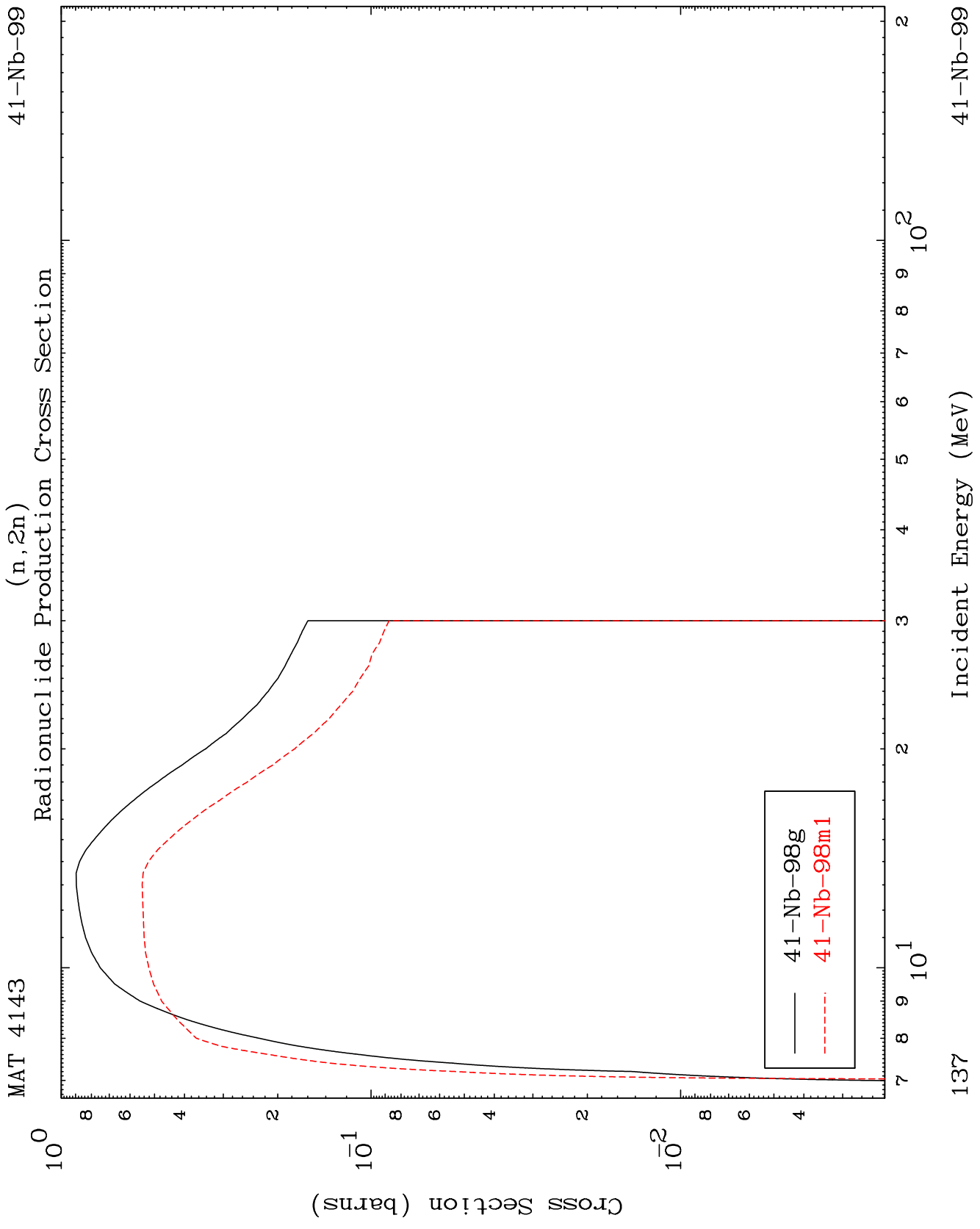
Inelastic  
Radionuclide Production Cross Section



136

Incident Energy (MeV)

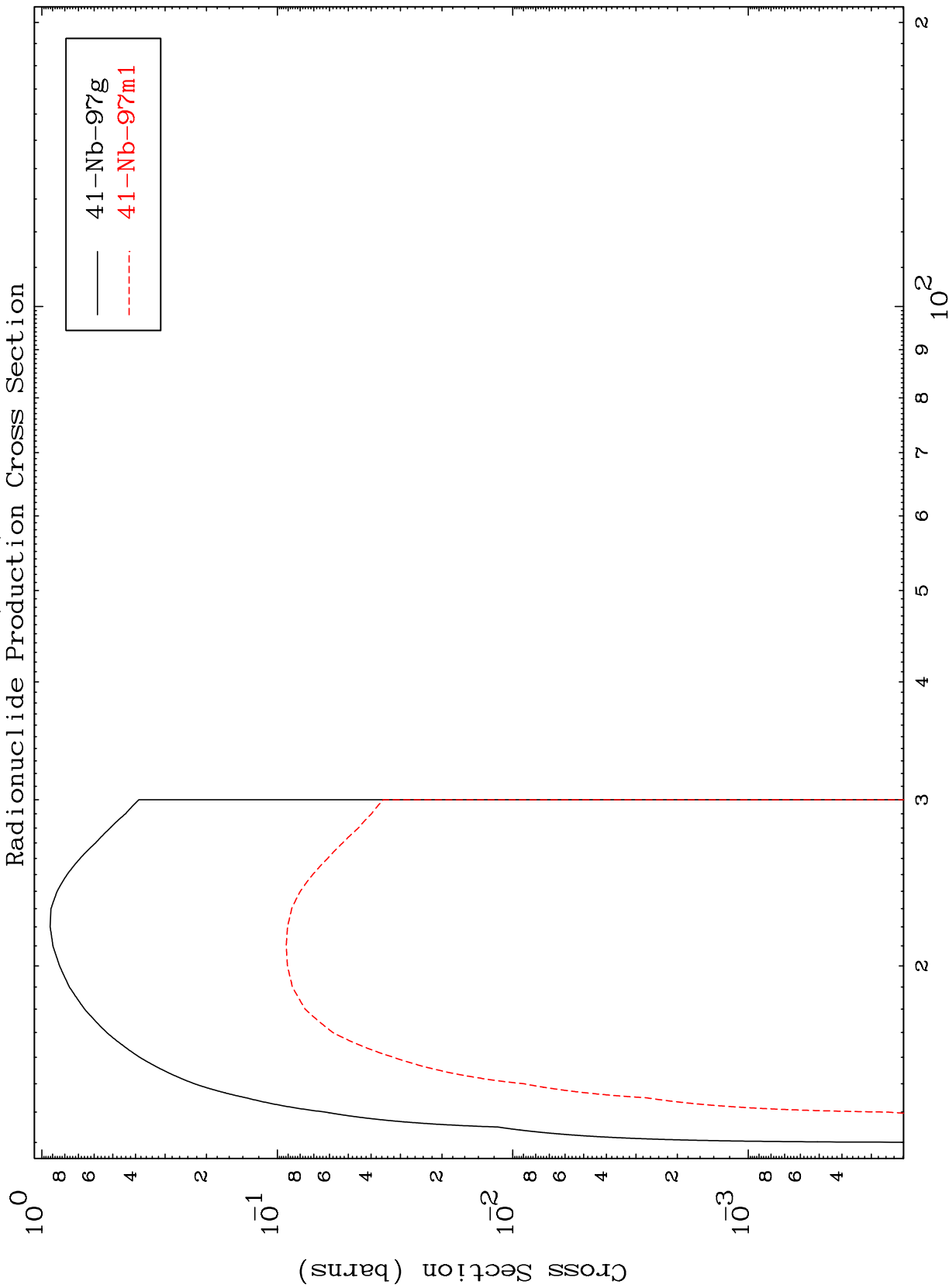
41-Nb-99



MAT 4143

41-Nb-99

(n,3n)  
Radionuclide Production Cross Section

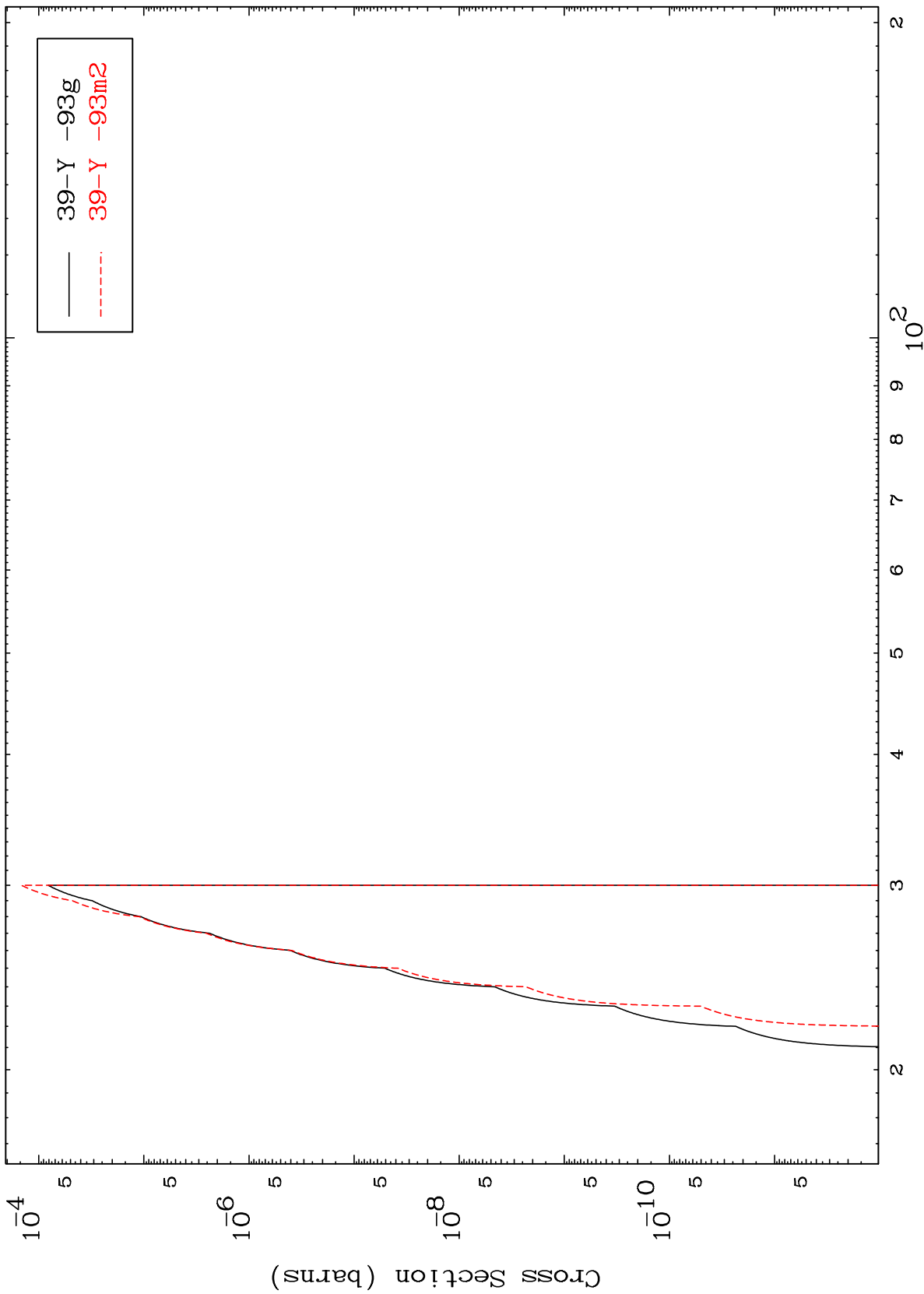


MAT 4143

(n,3n)  $\alpha$

41-Nb-99

Radionuclide Production Cross Section



39-Y -93g  
39-Y -93m2

139

Incident Energy (MeV)

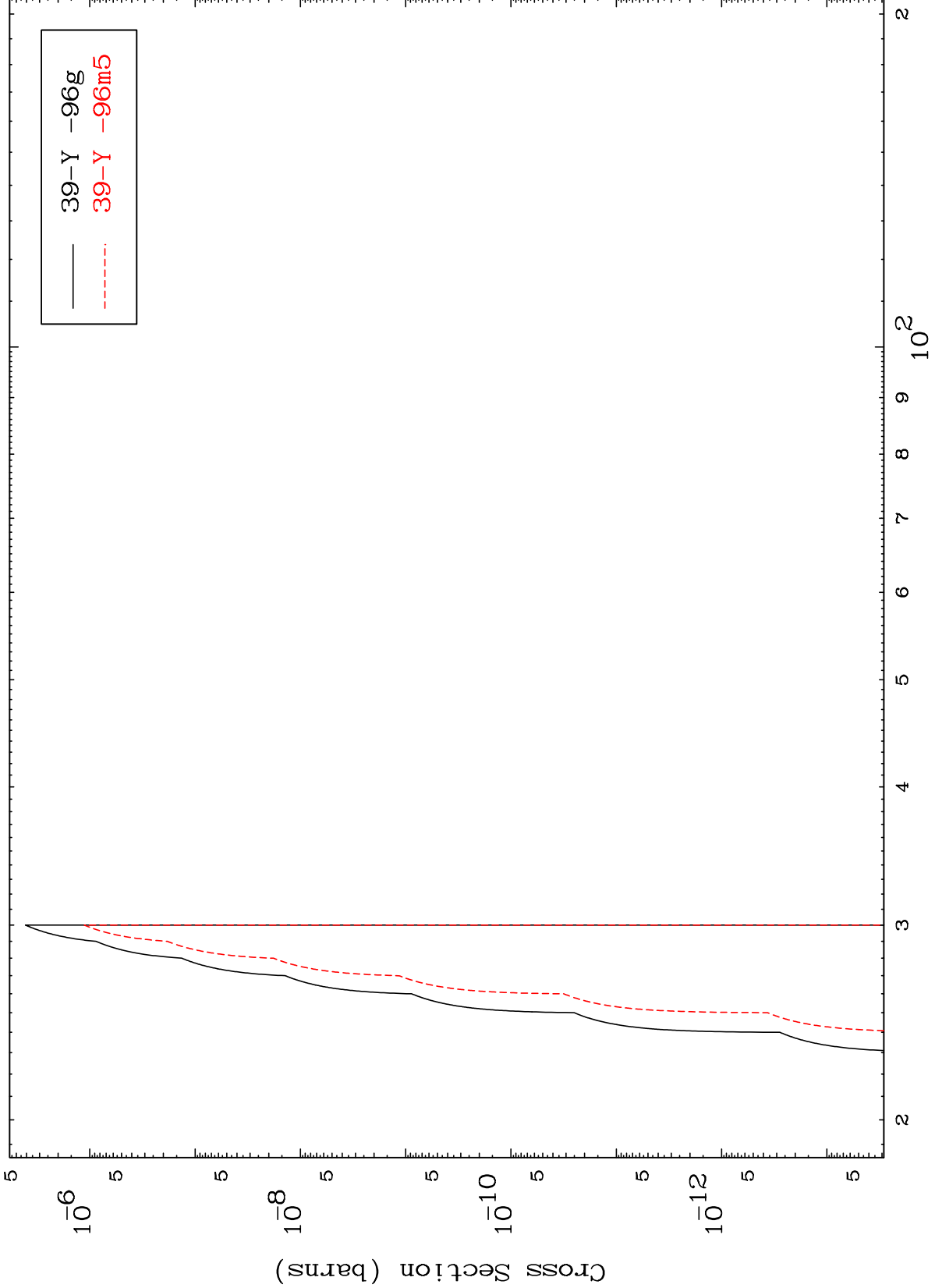
41-Nb-99

MAT 4143

(n,n') He-3

41-Nb-99

Radionuclide Production Cross Section



140

Incident Energy (MeV)

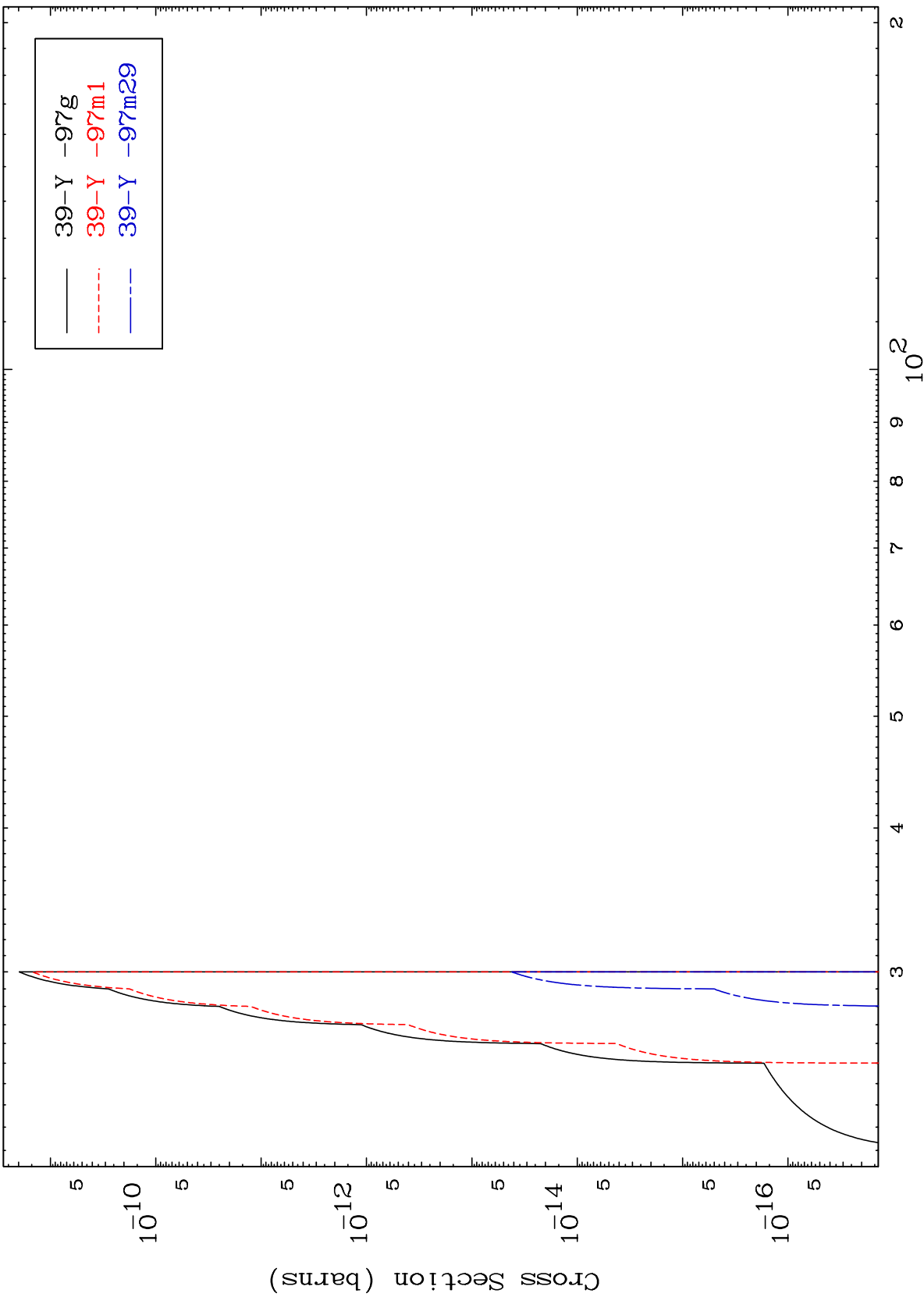
41-Nb-99

MAT 4143

(n,2n) p

41-Nb-99

Radionuclide Production Cross Section



141

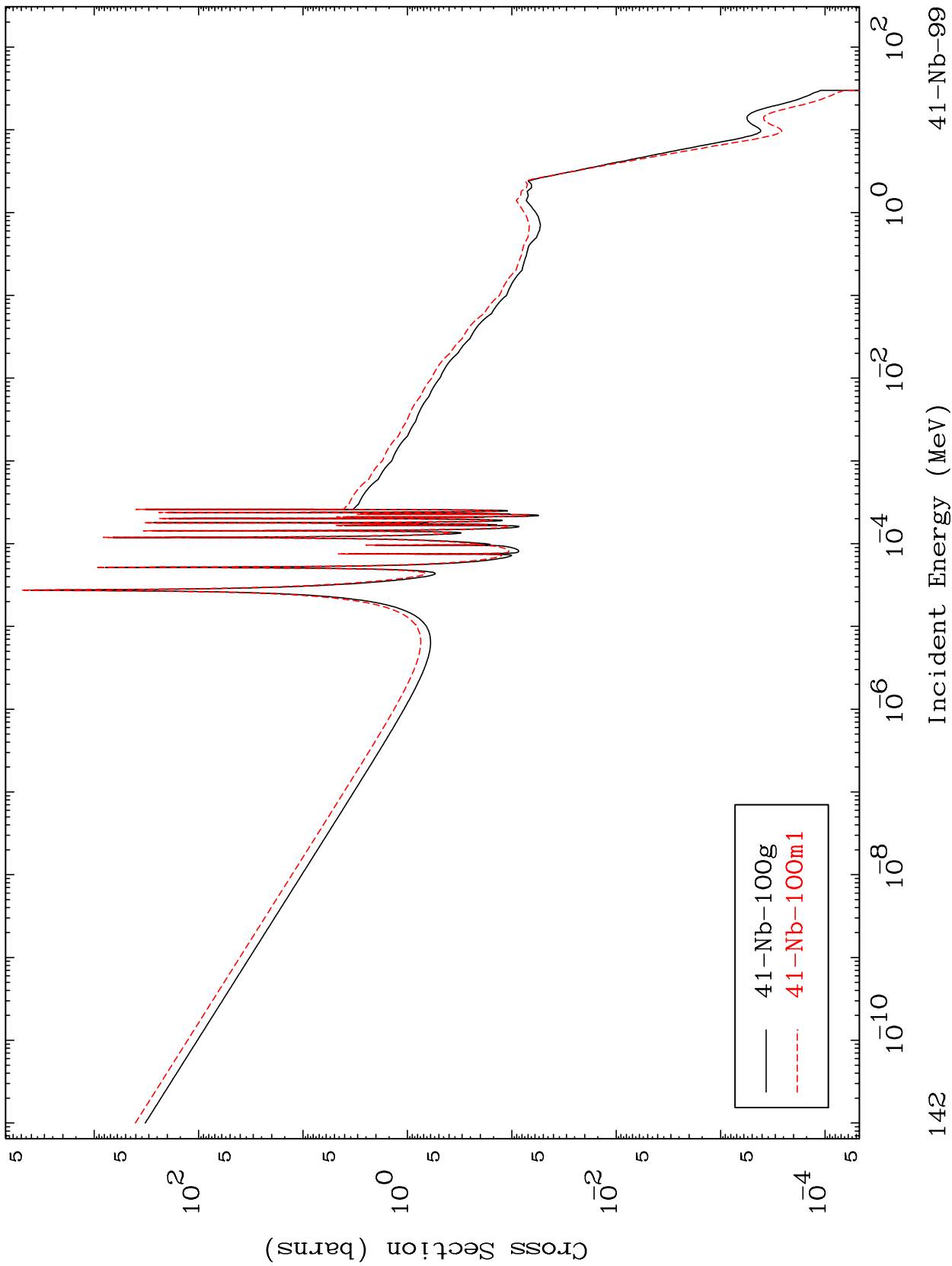
Incident Energy (MeV)

41-Nb-99

MAT 4143

41-Nb-99

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



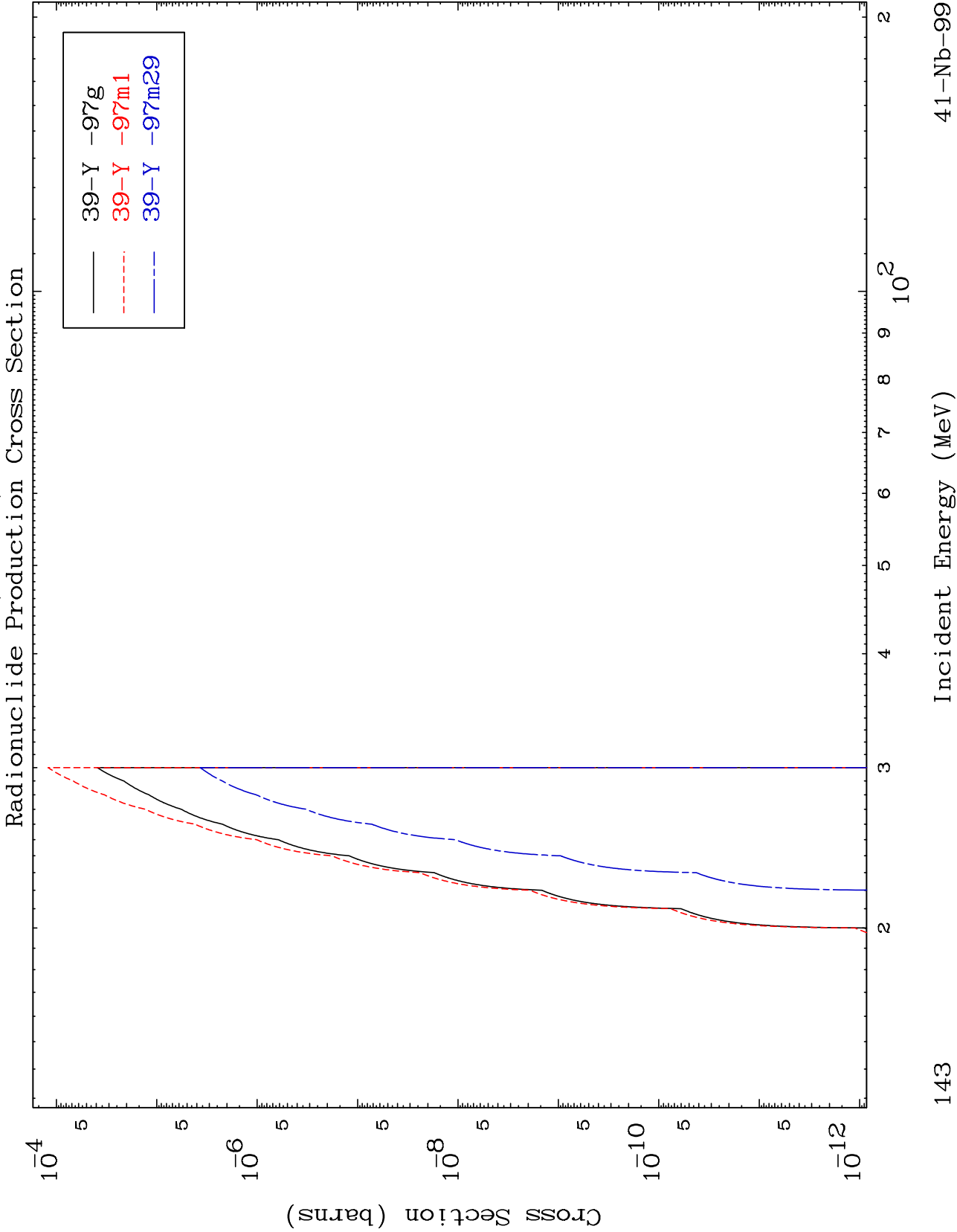
142

41-Nb-99

MAT 4143

(n,He-3)

41-Nb-99



143

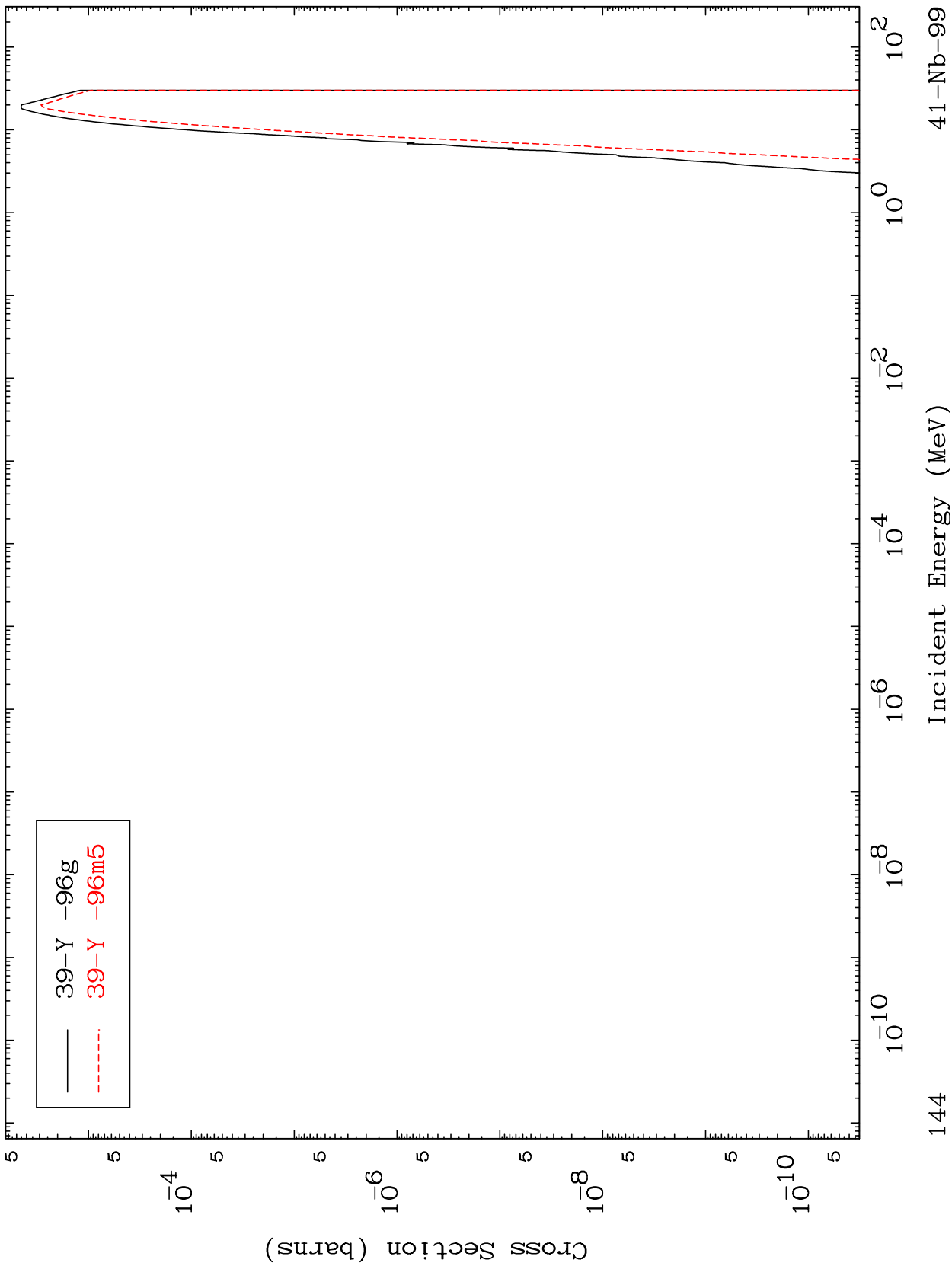
41-Nb-99



MAT 4143

41-Nb-99

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

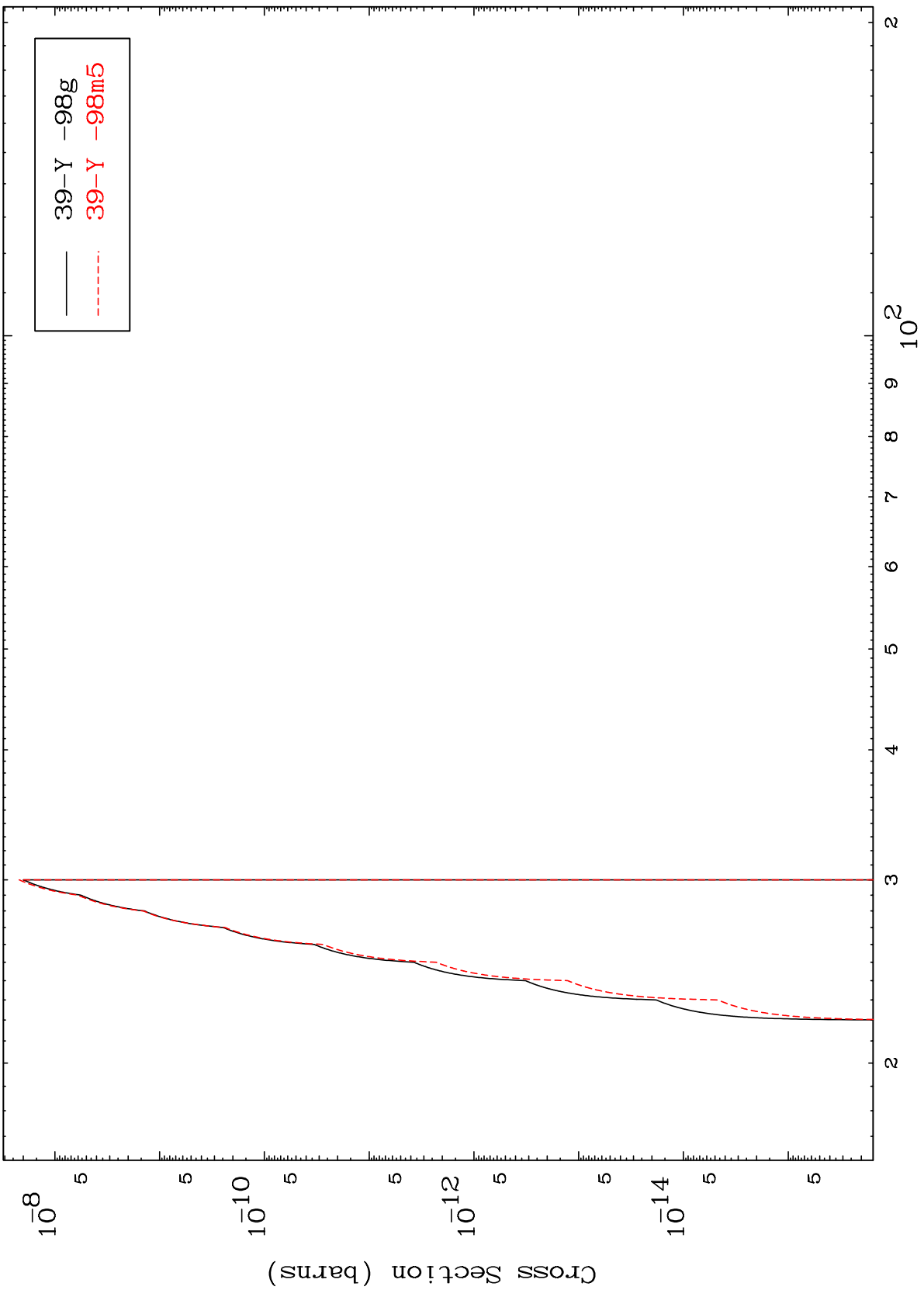


144

MAT 4143

41-Nb-99

(n,2p)  
Radionuclide Production Cross Section



145

Incident Energy (MeV)

41-Nb-99