

Program EVALPLOT
(Version 2021-1)

by

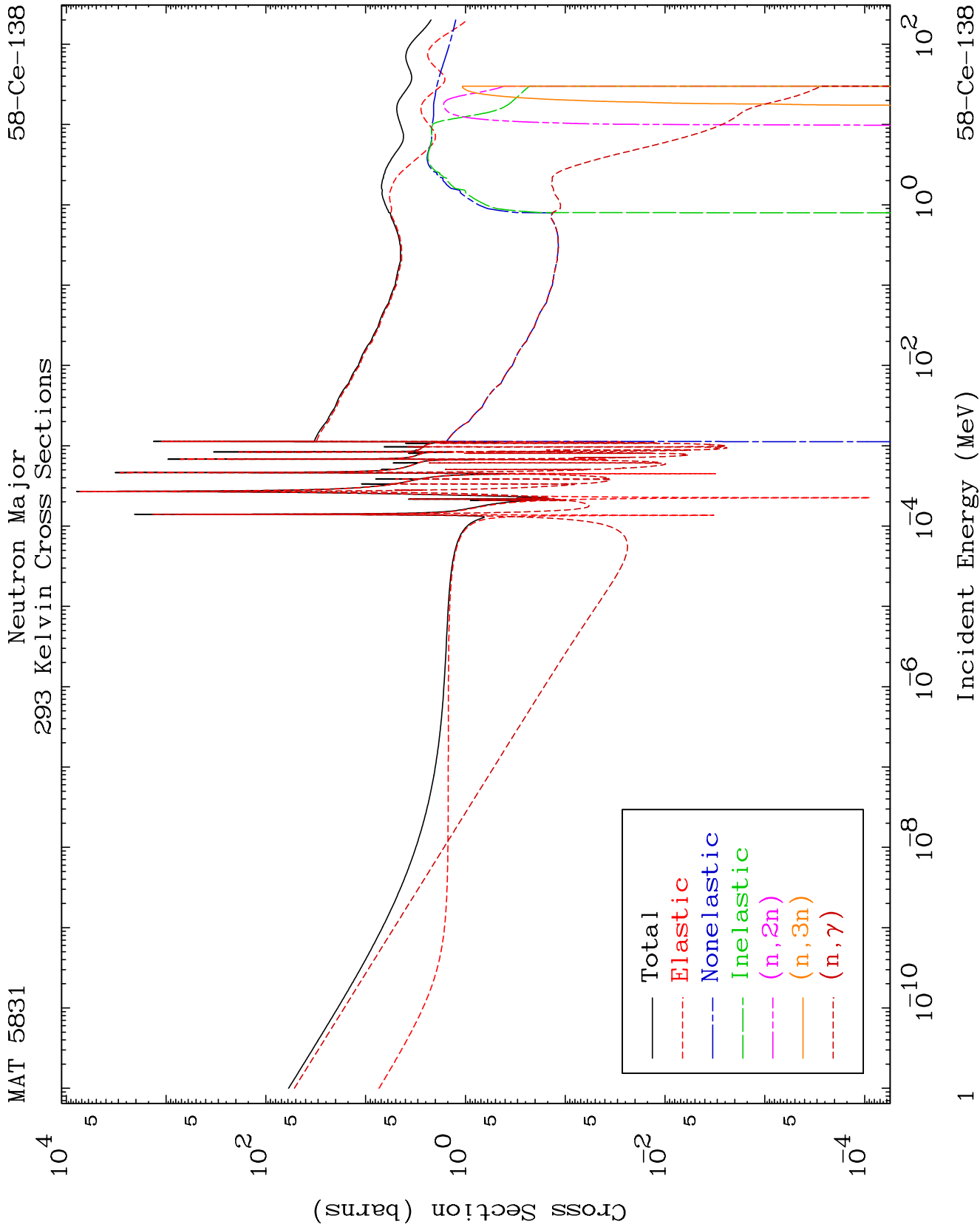
Dermott E. Cullen
(Present Contact Information)

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Livermore, CA 94550
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Tele: 925-443-1911

E.Mail: redcullen1@comcast.net
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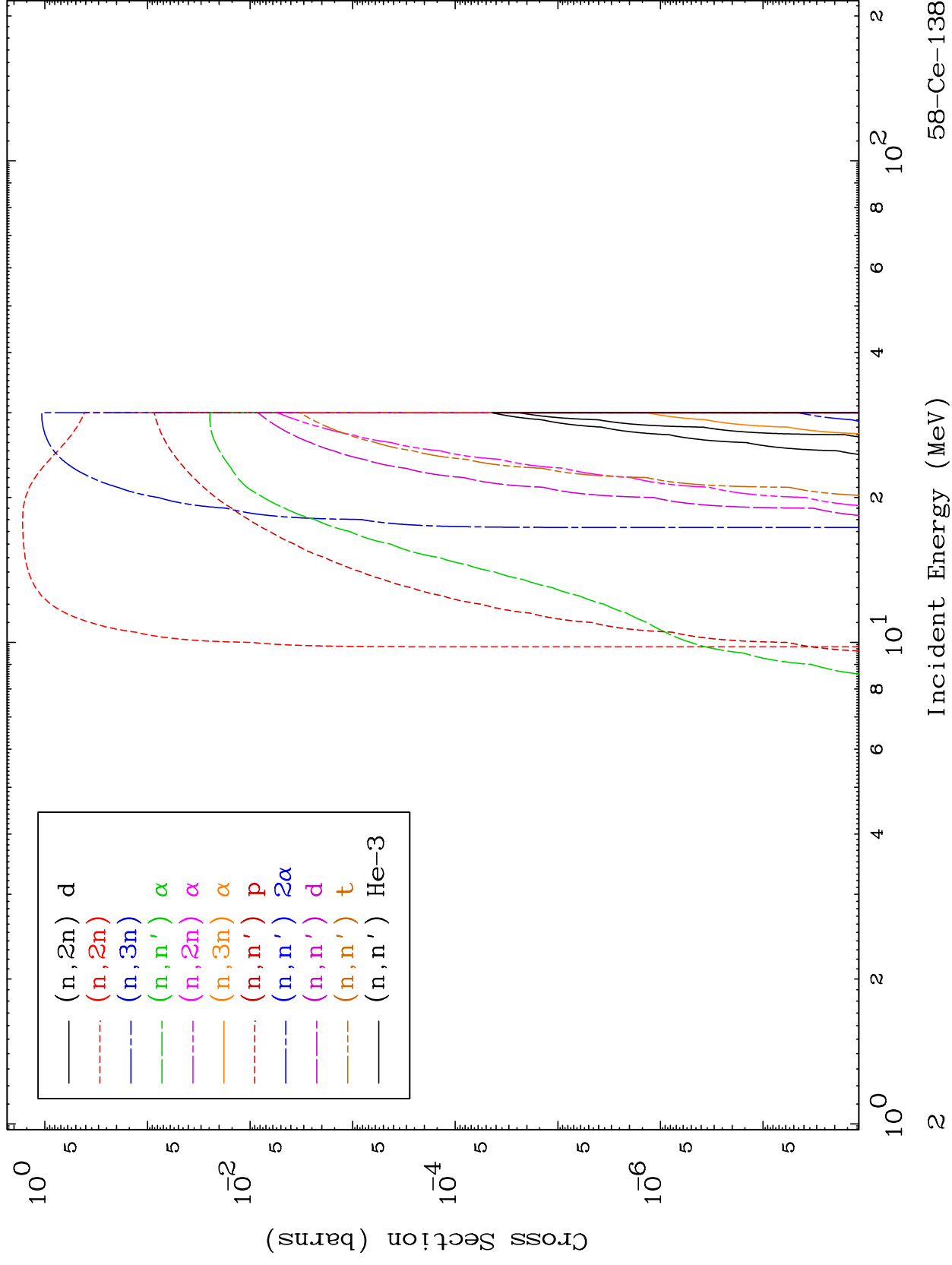
Press Mouse Button to Start

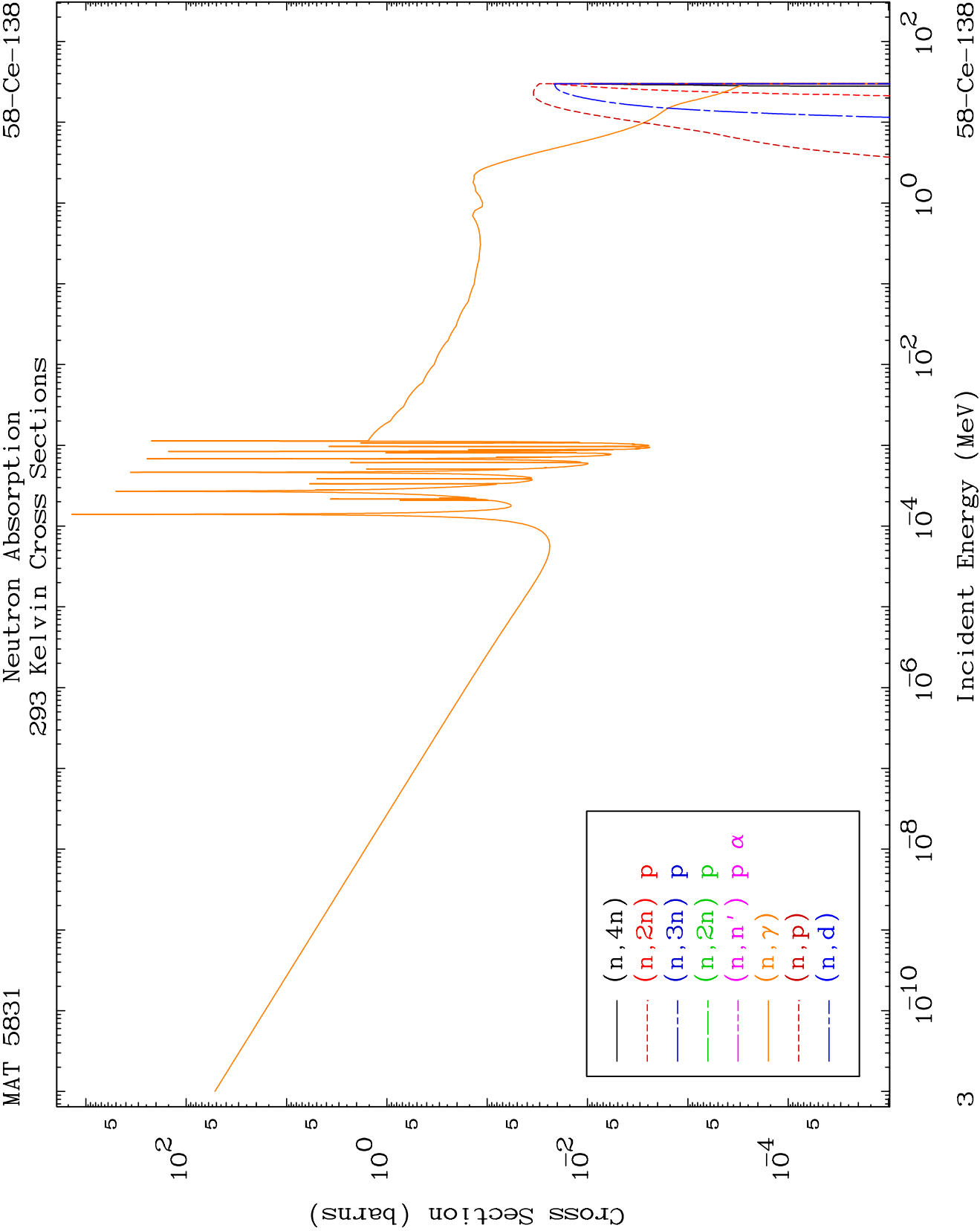


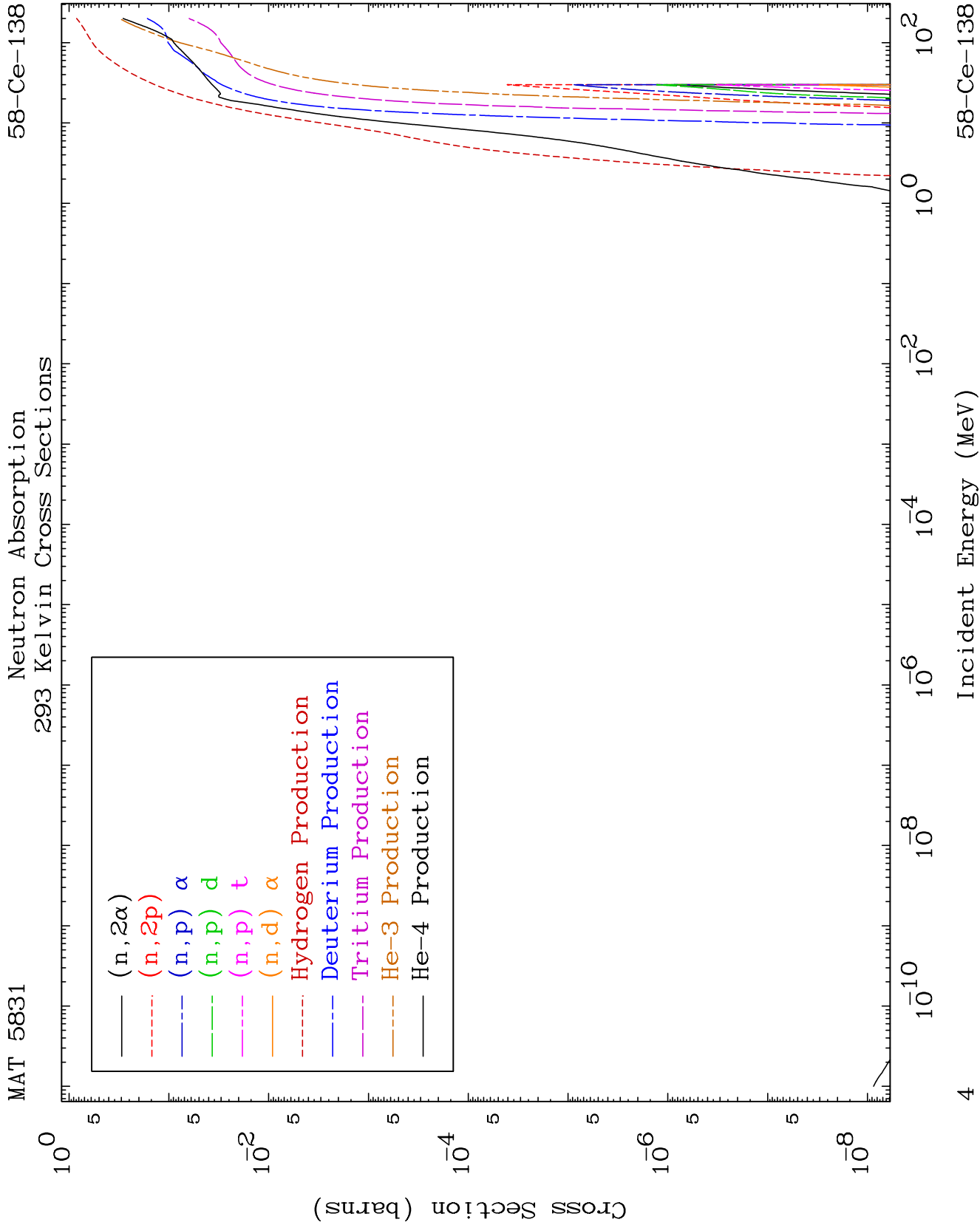
MAT 5831

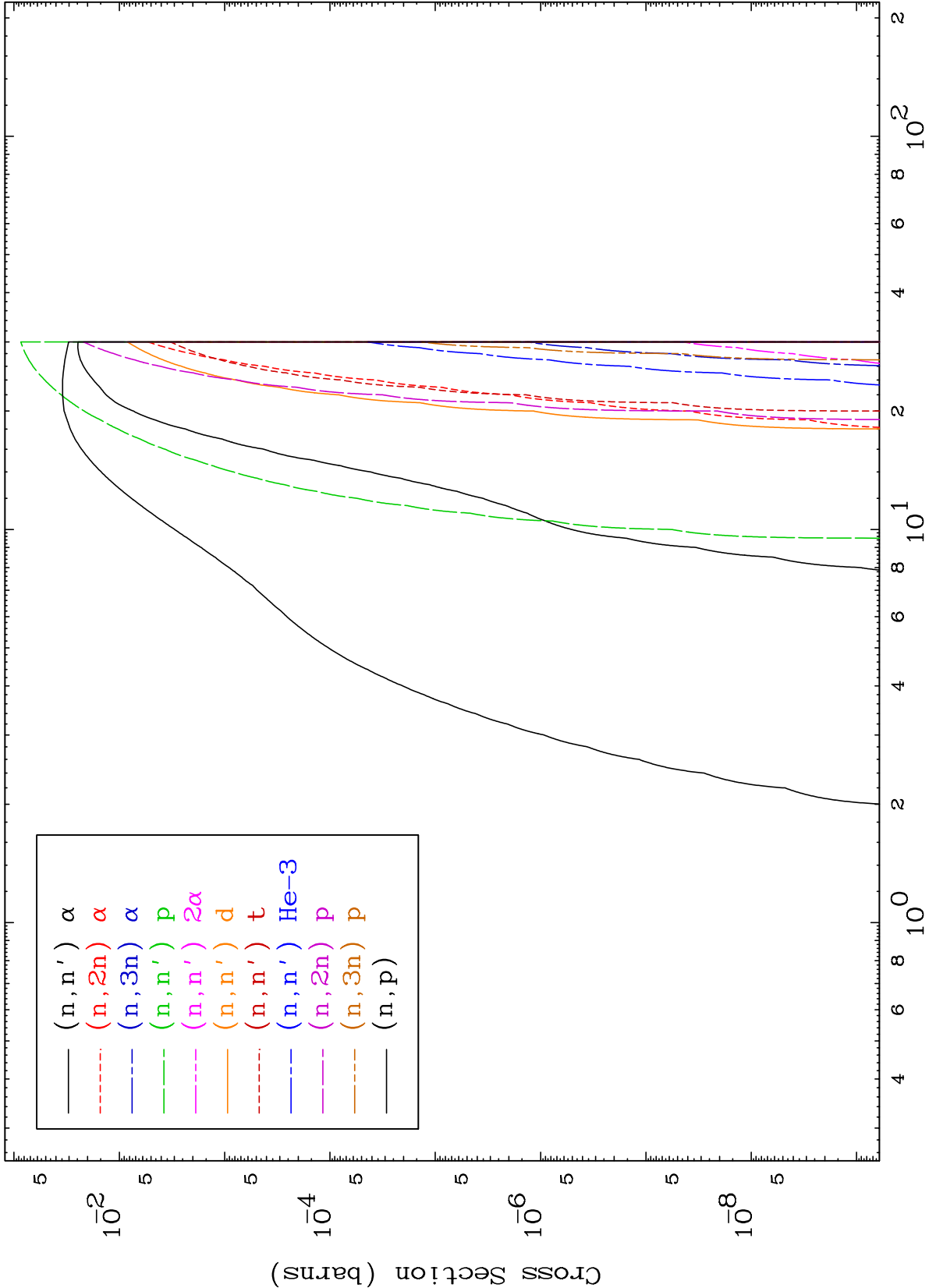
Neutron Absorption 293 Kelvin Cross Sections

58-Ce-138





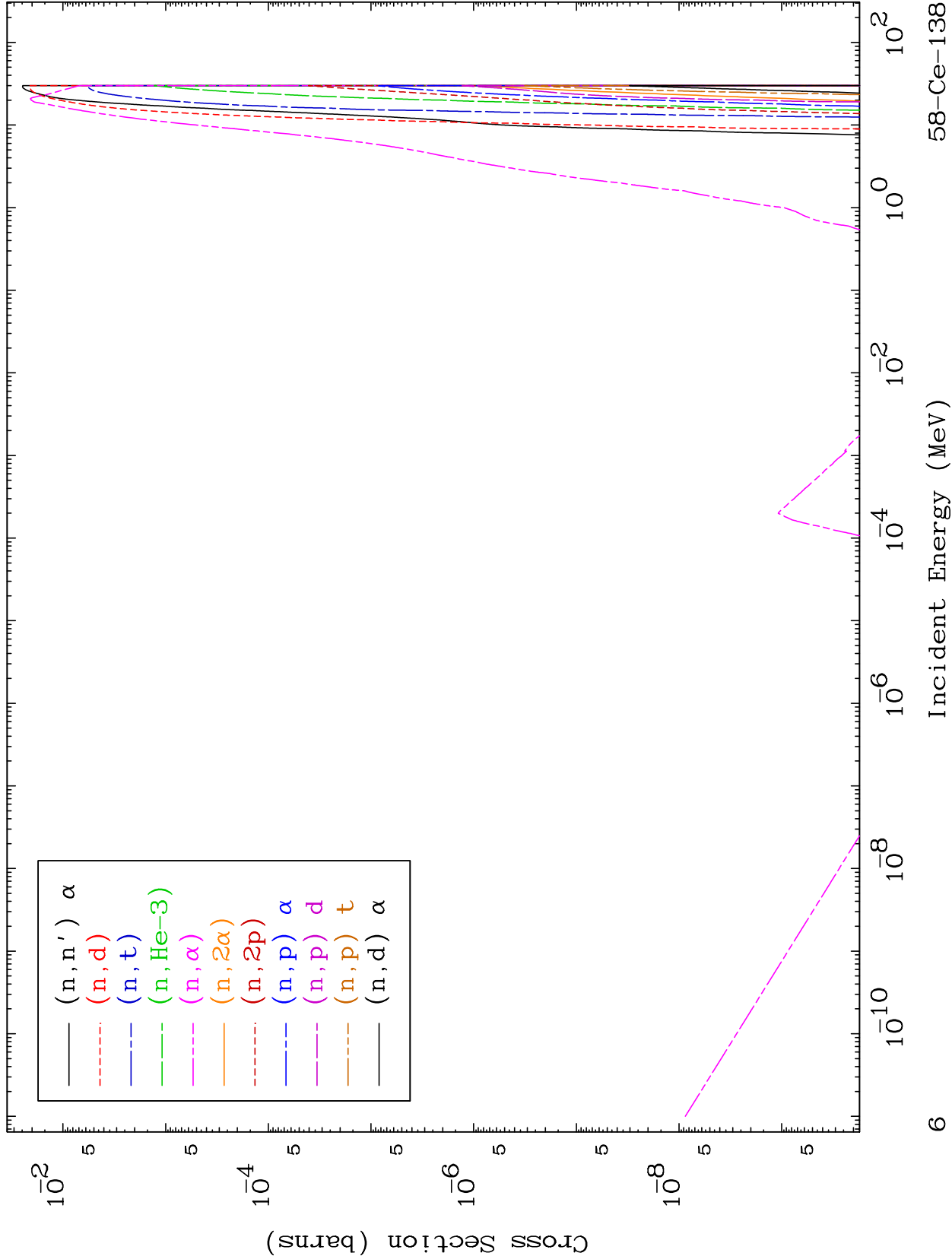


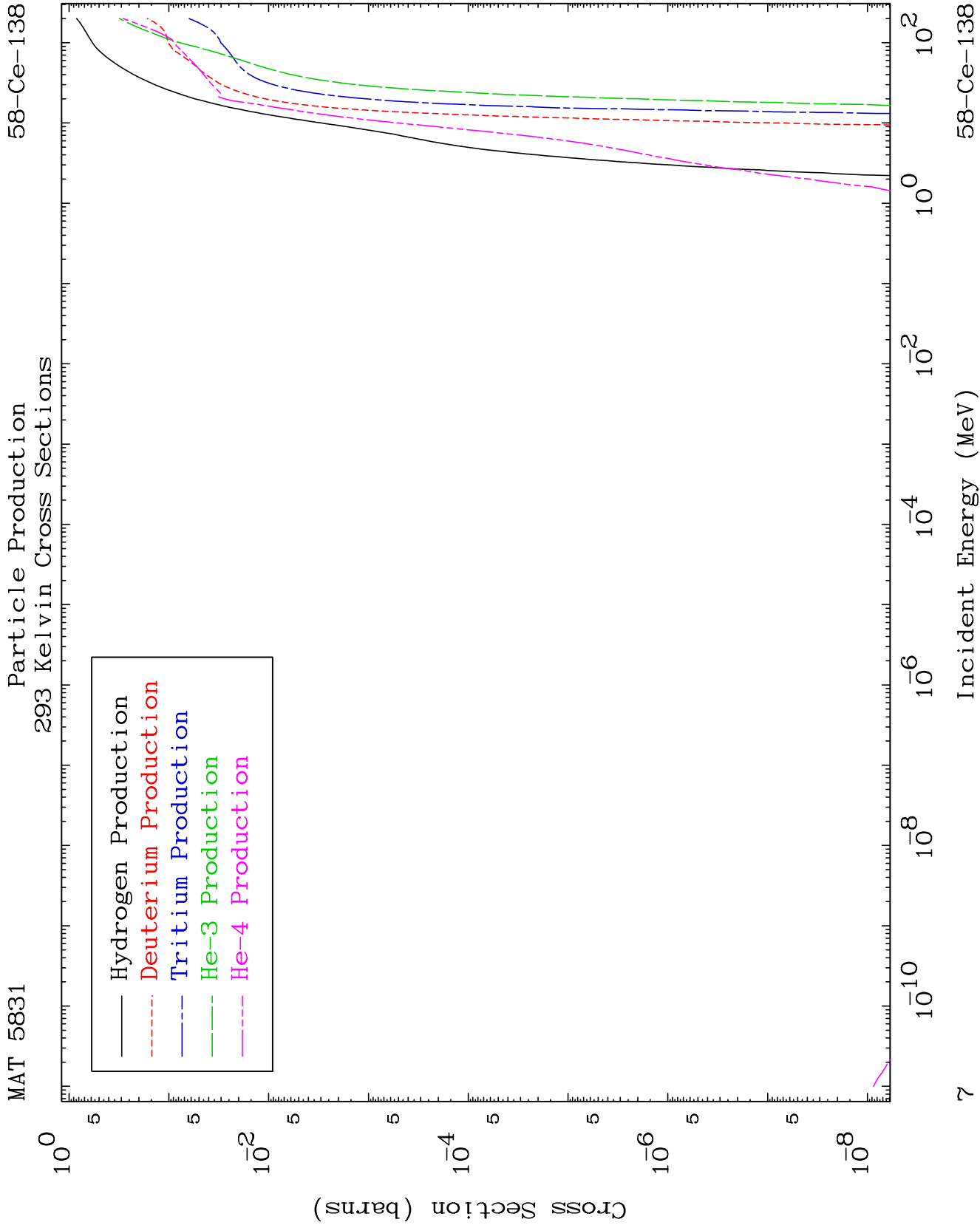


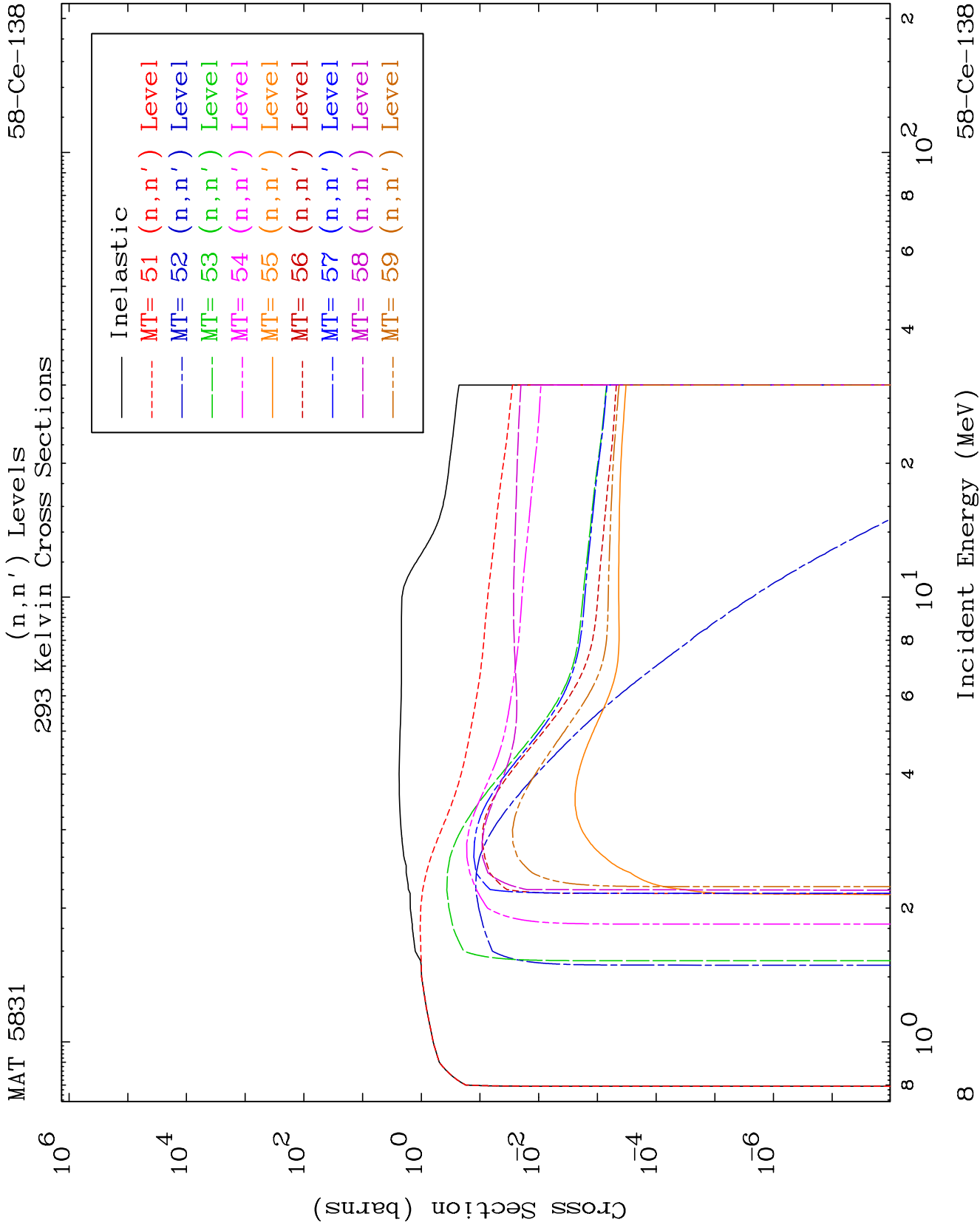
MAT 5831

Charged Particle
293 Kelvin Cross Sections

58-Ce-138





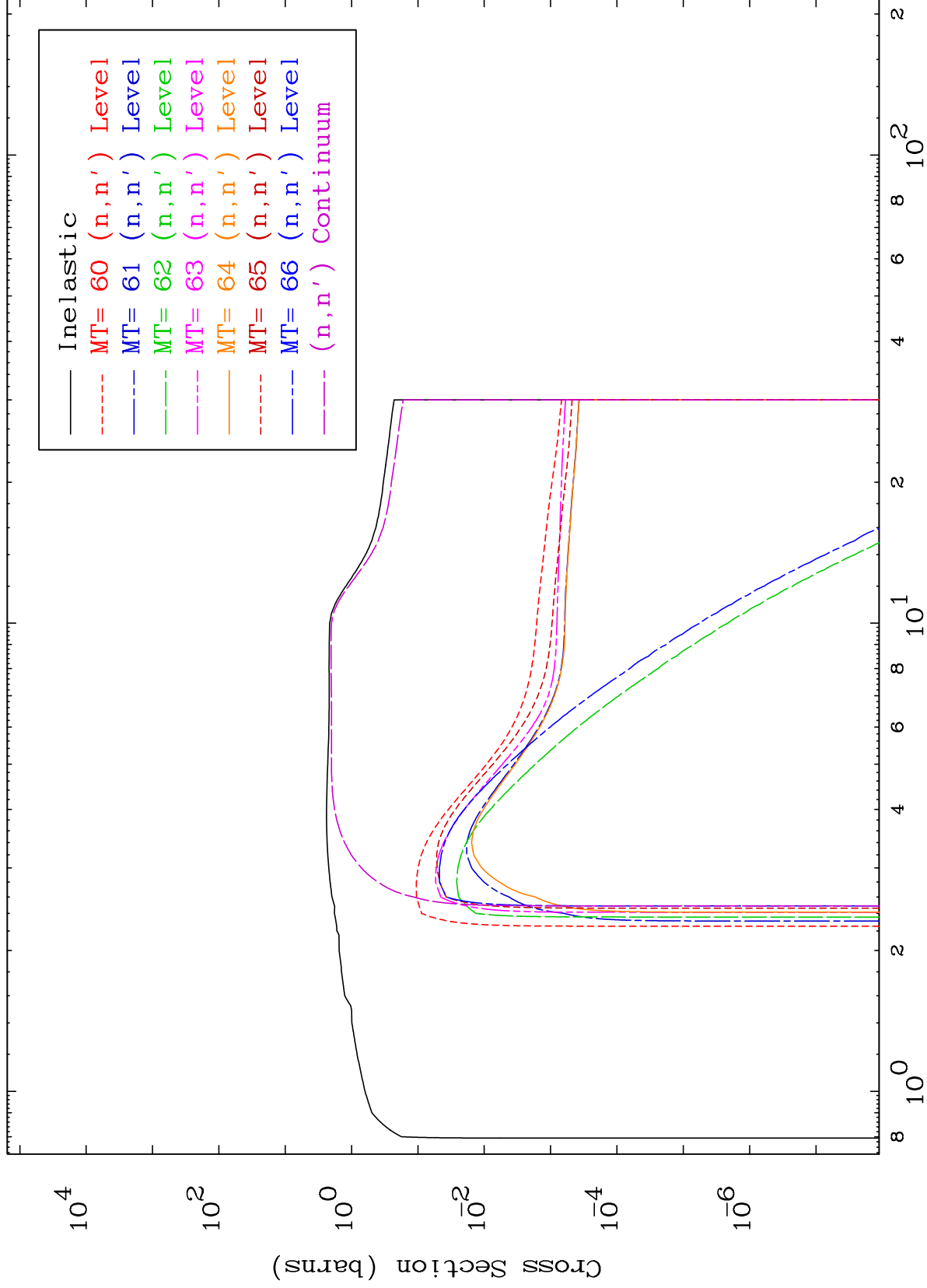


MAT 5831

(n,n') Levels

293 Kelvin Cross Sections

58-Ce-138



9

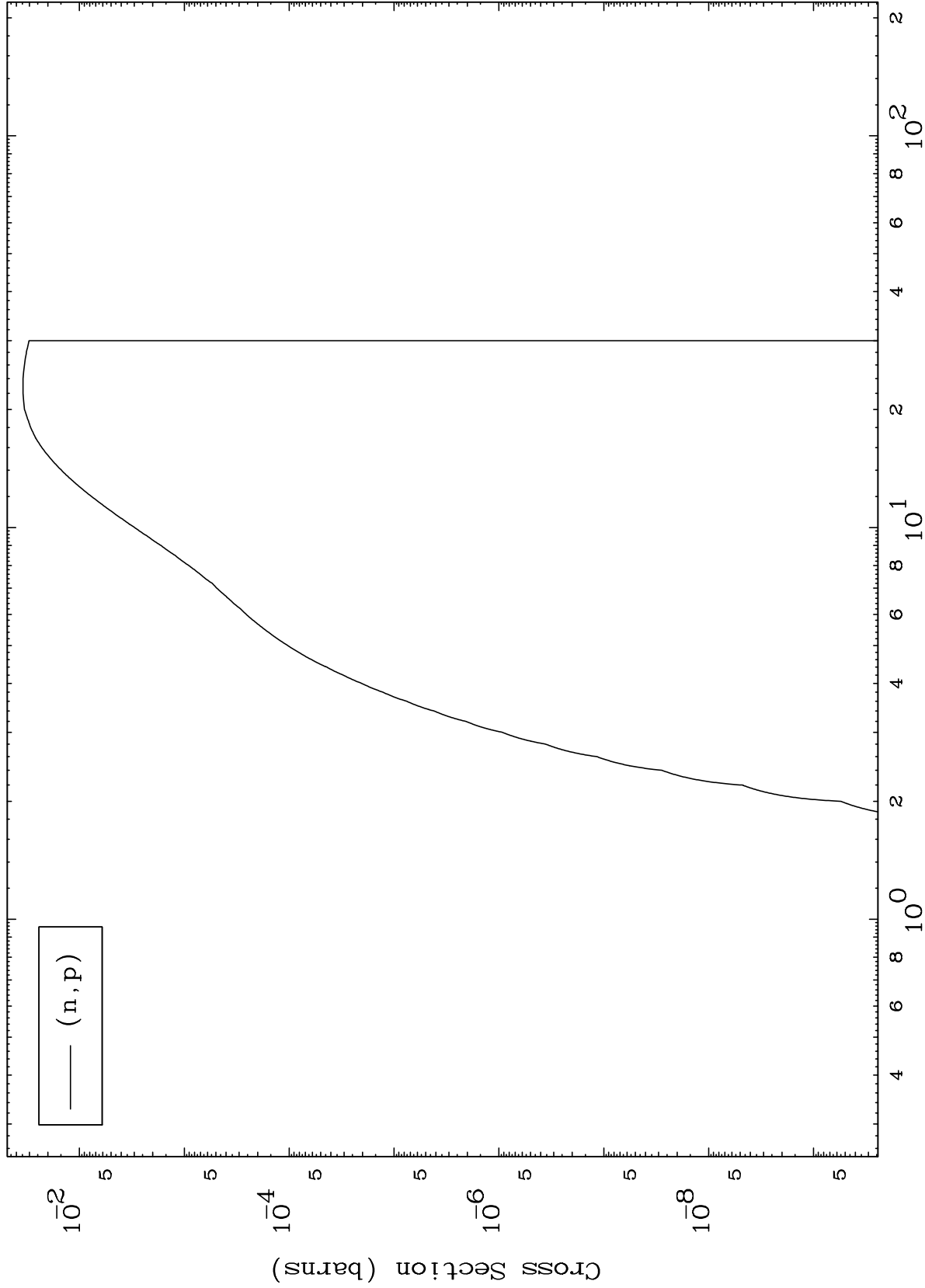
Incident Energy (MeV)

58-Ce-138

MAT 5831

58-Ce-138

(n,p) Levels
293 Kelvin Cross Sections



10

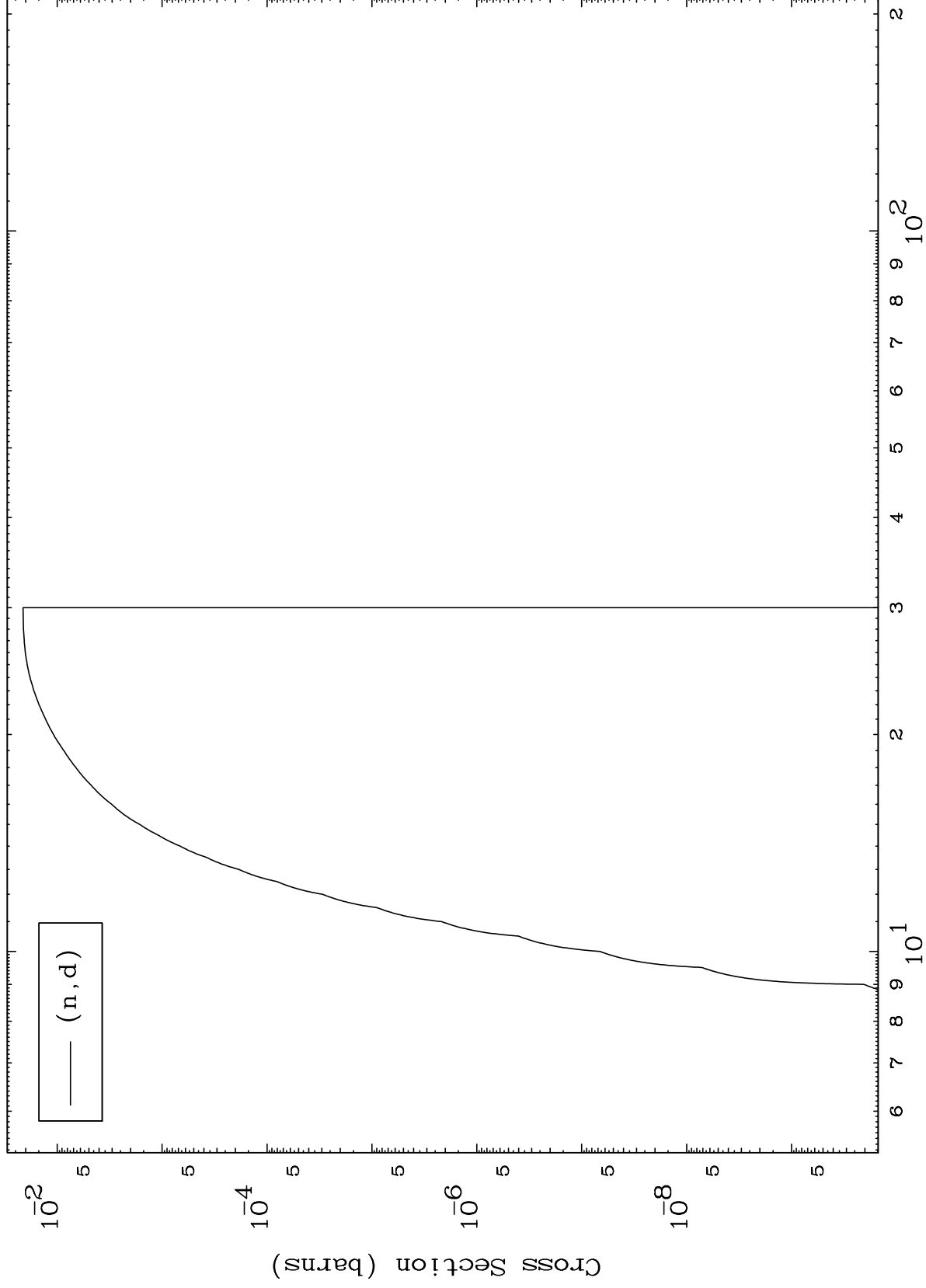
Incident Energy (MeV)

58-Ce-138

MAT 5831

58-Ce-138

(n,d) Levels
293 Kelvin Cross Sections



11

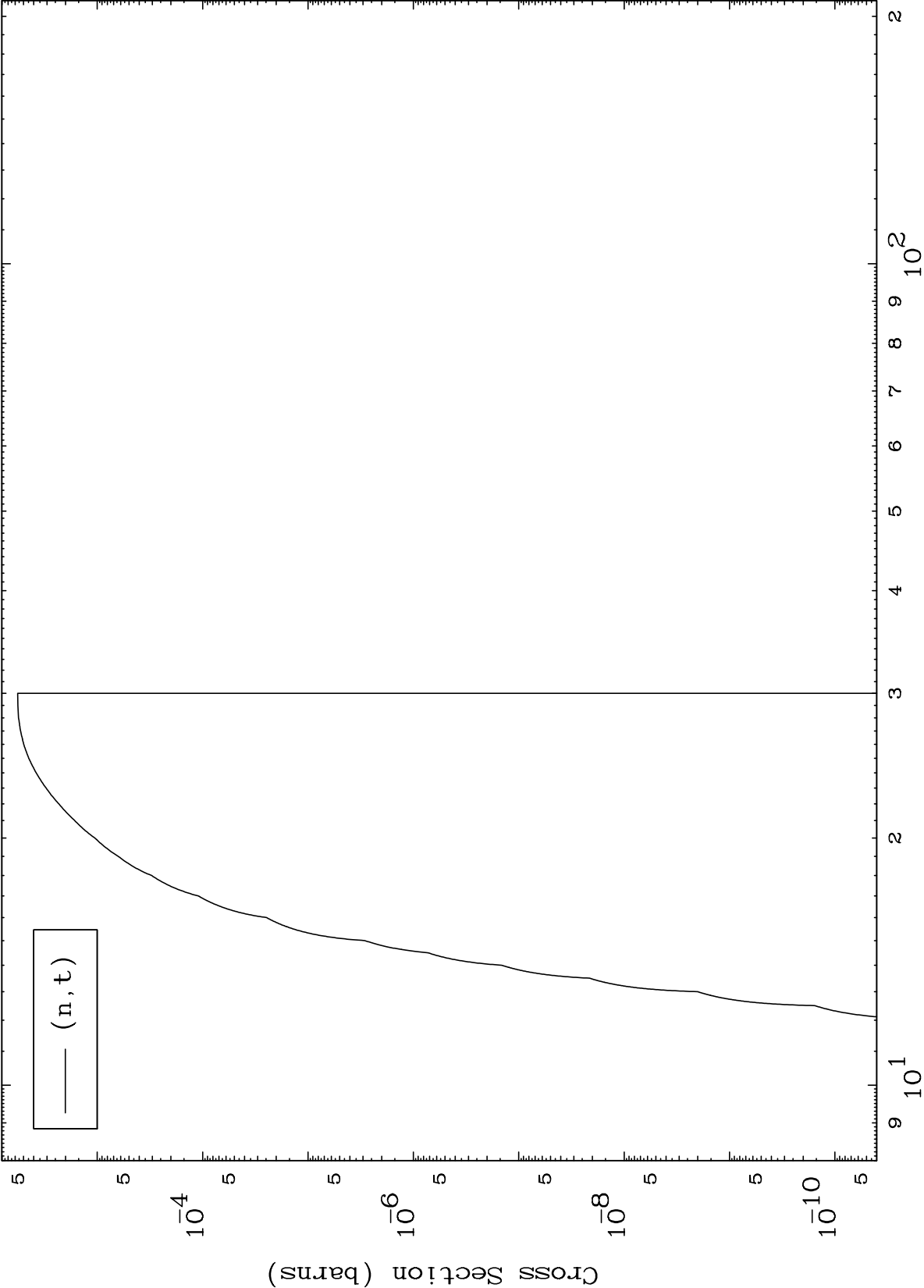
Incident Energy (MeV)

58-Ce-138

MAT 5831

58-Ce-138

(n,t) Levels
293 Kelvin Cross Sections



58-Ce-138

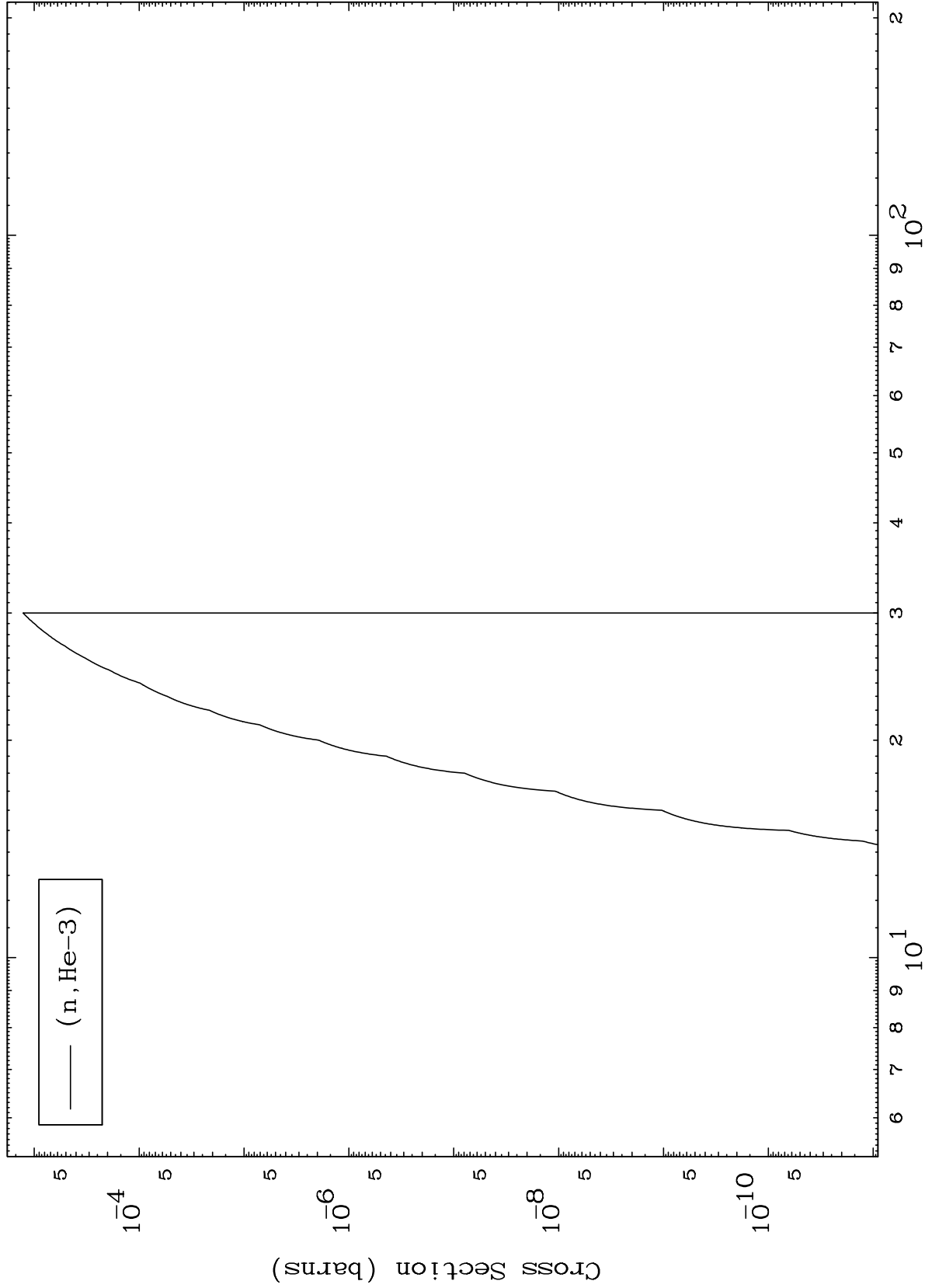
Incident Energy (MeV)

12

MAT 5831

58-Ce-138

(n,He3) Levels
293 Kelvin Cross Sections



58-Ce-138

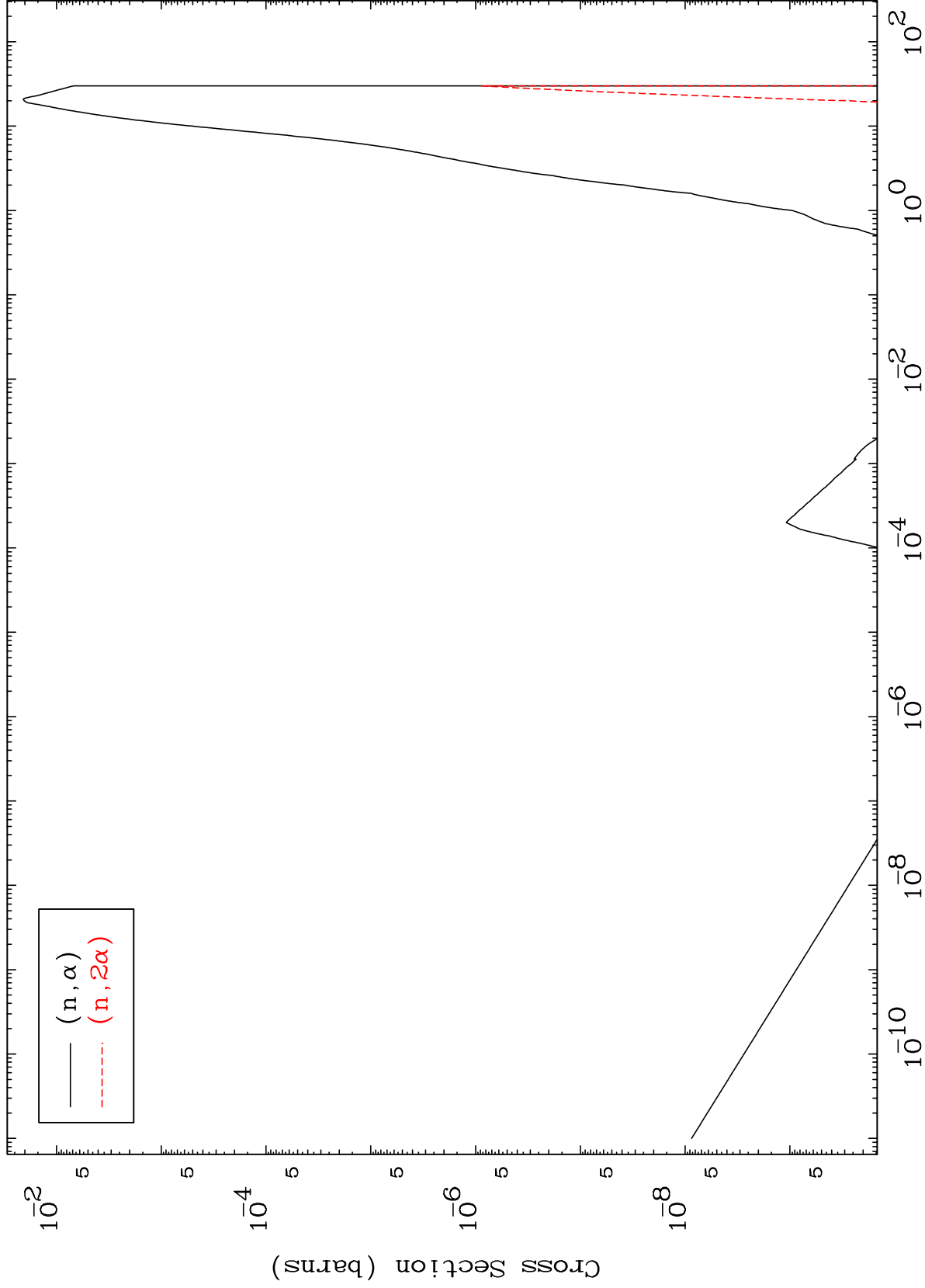
Incident Energy (MeV)

13

MAT 5831

(n, α) Levels
293 Kelvin Cross Sections

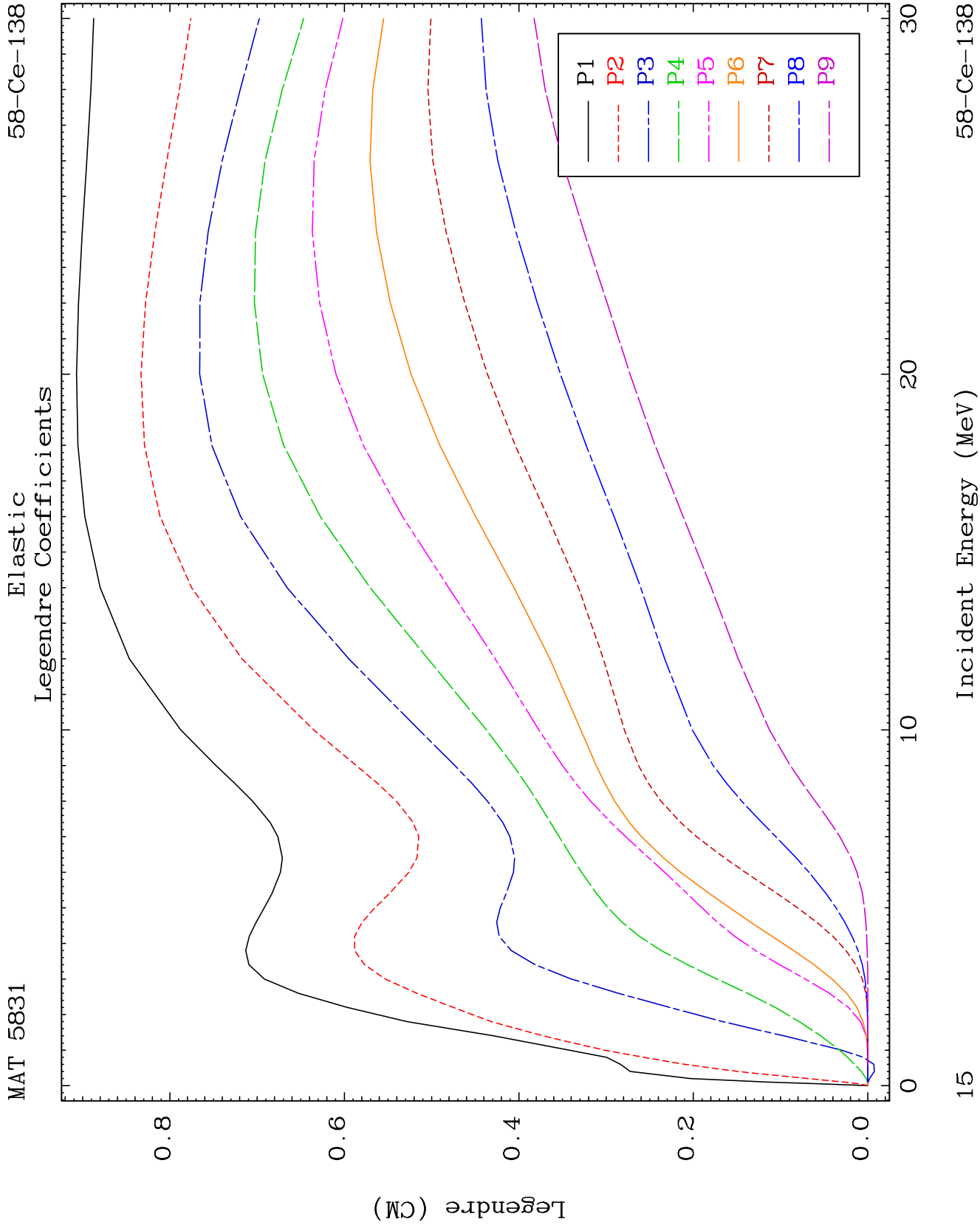
58-Ce-138

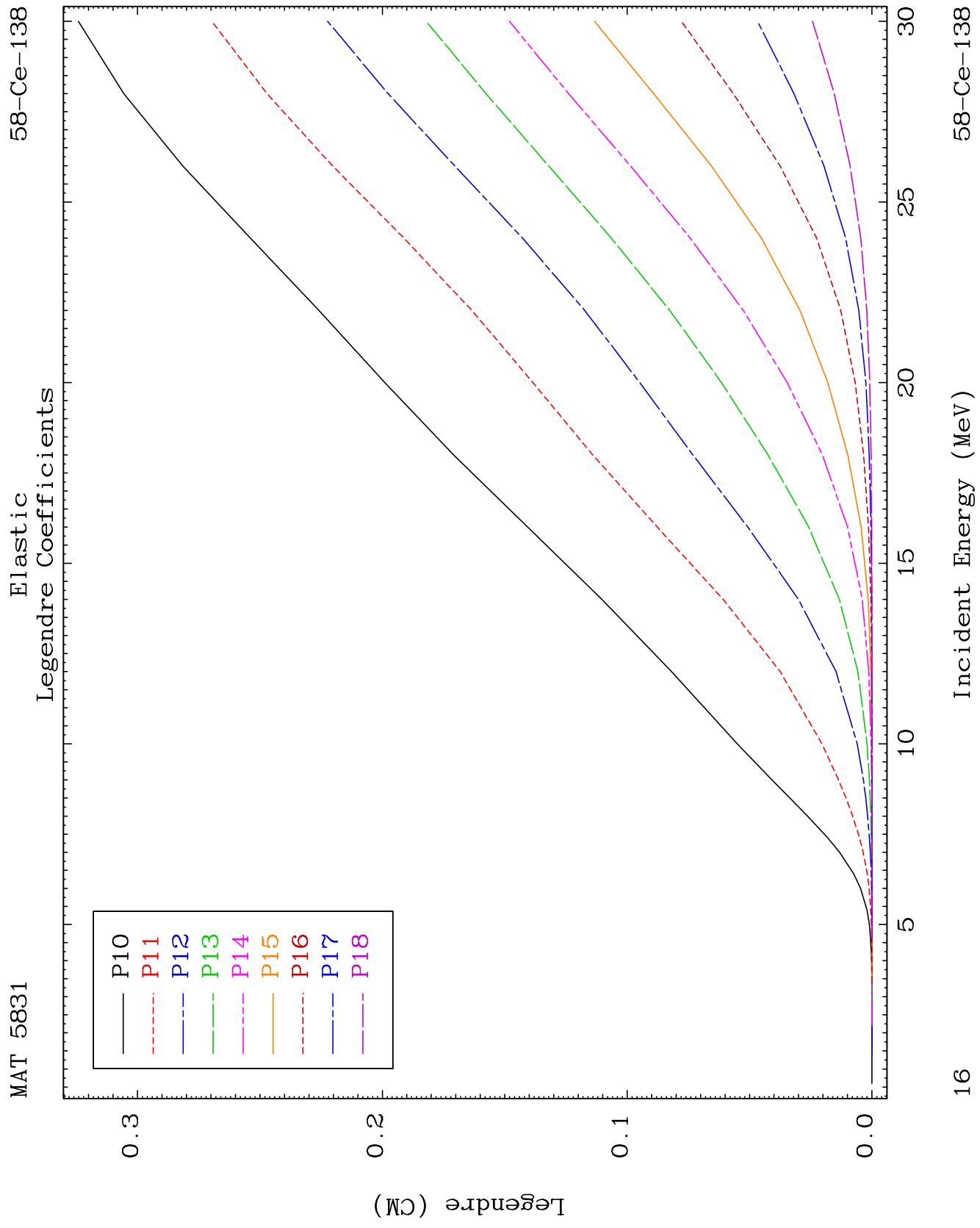


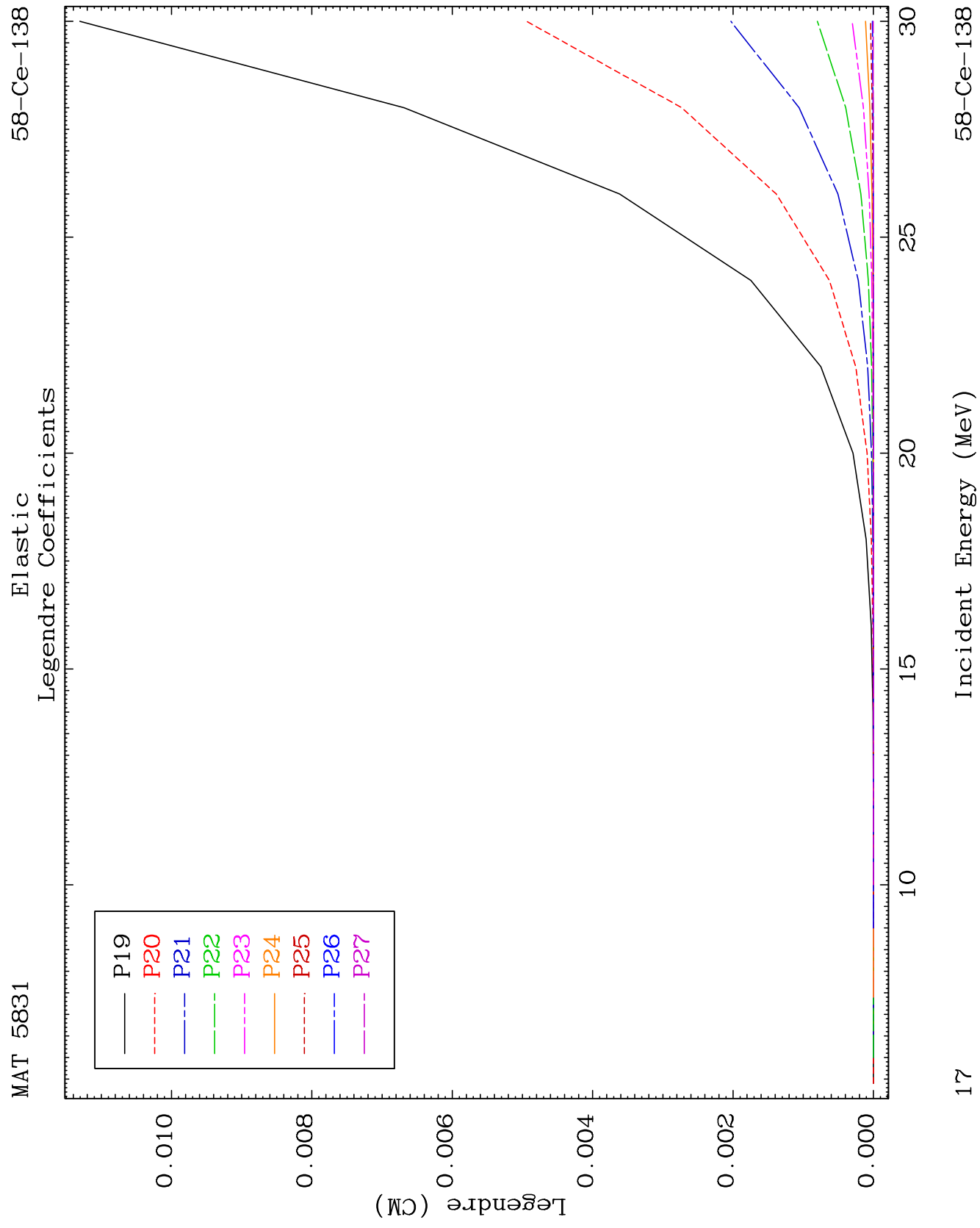
14

Incident Energy (MeV)

58-Ce-138



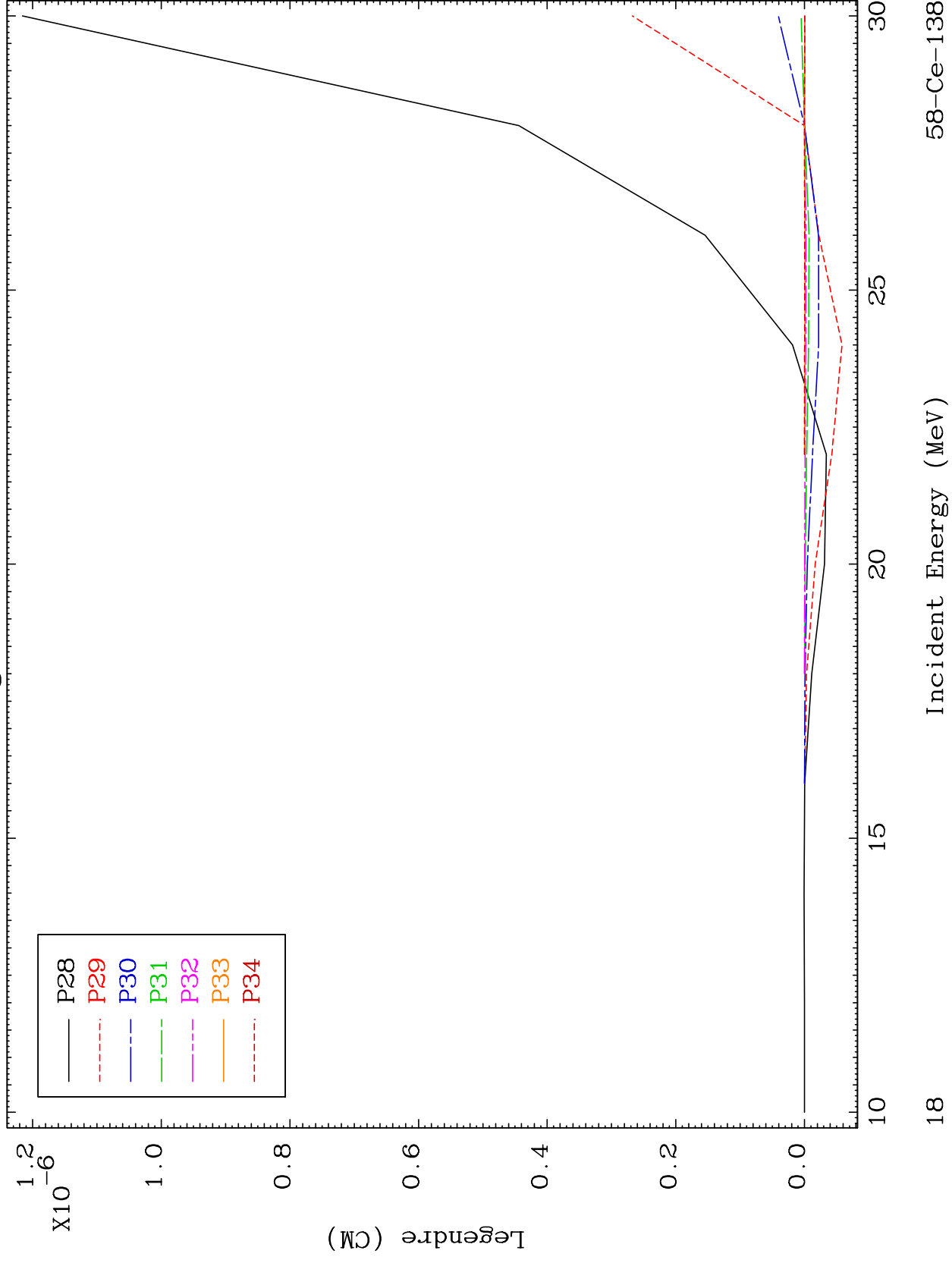


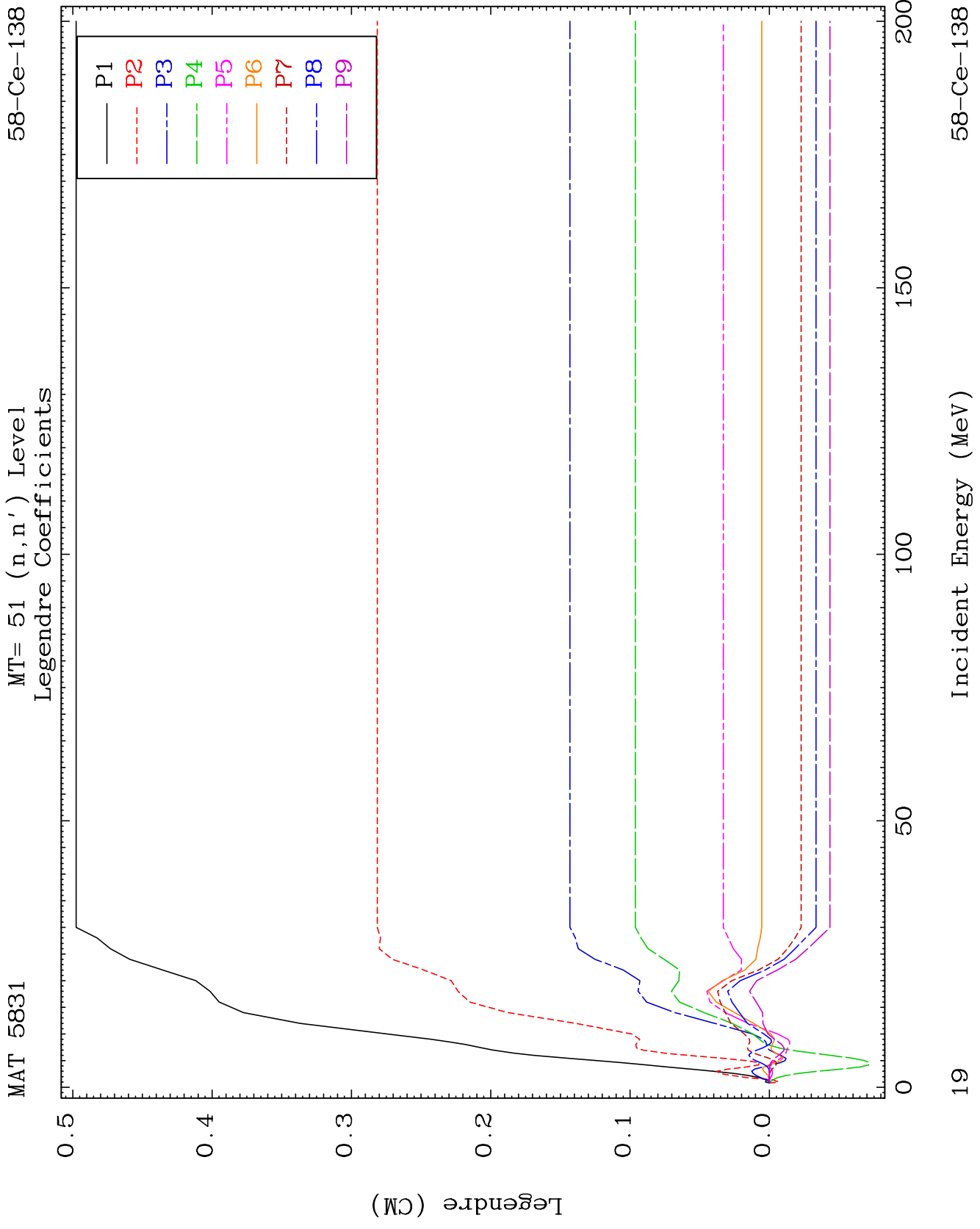


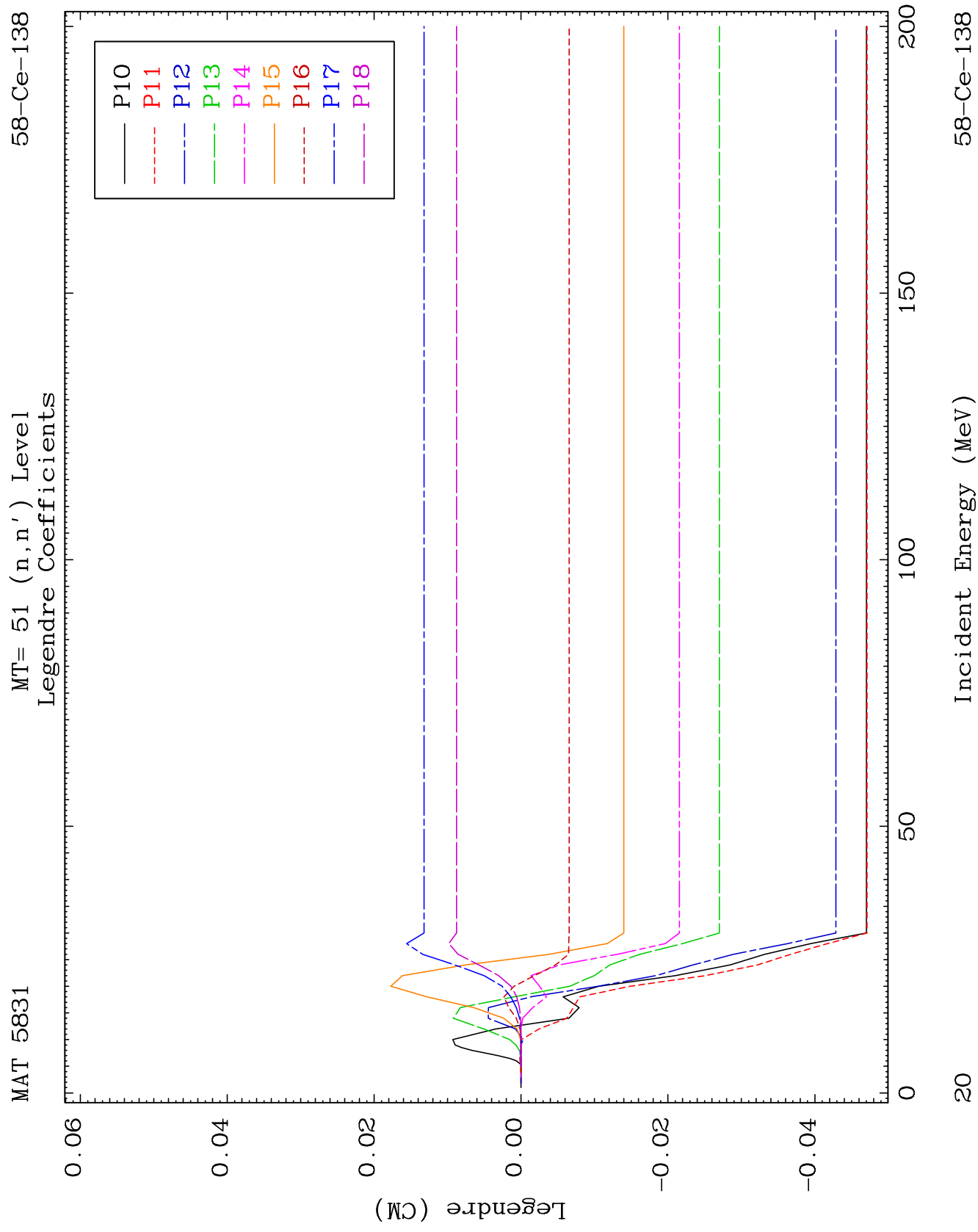
MAT 5831

Elastic Legendre Coefficients

58-Ce-138



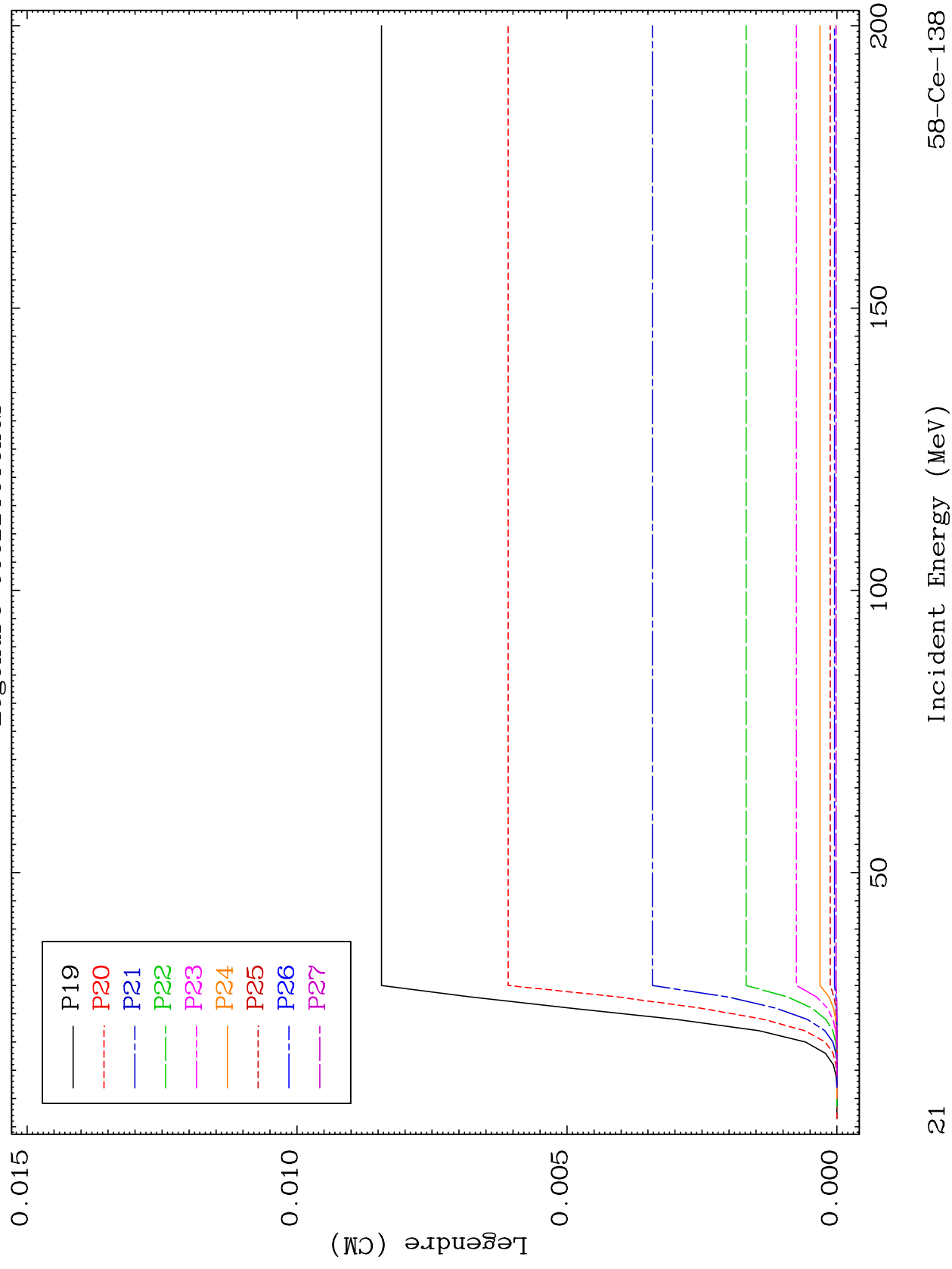


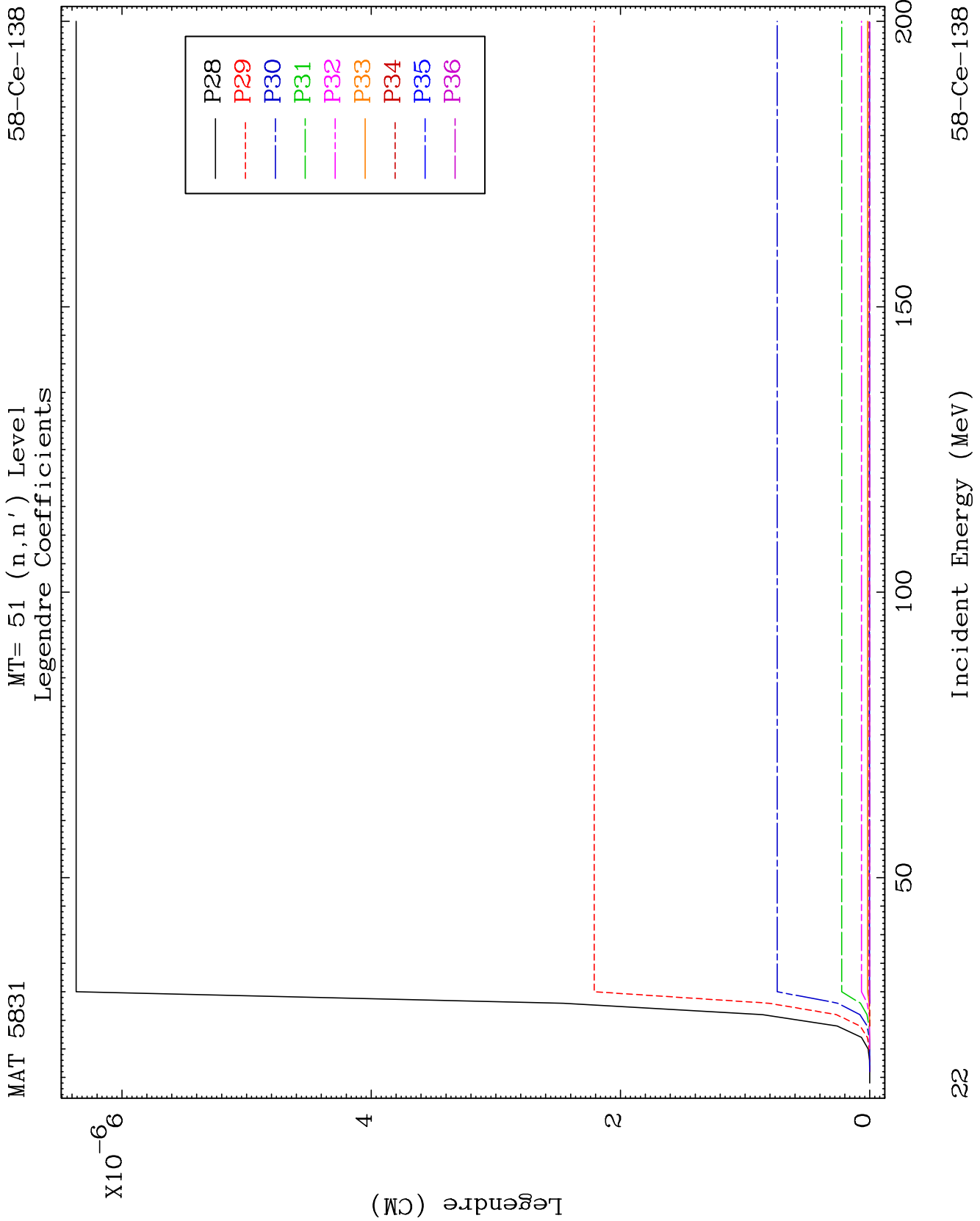


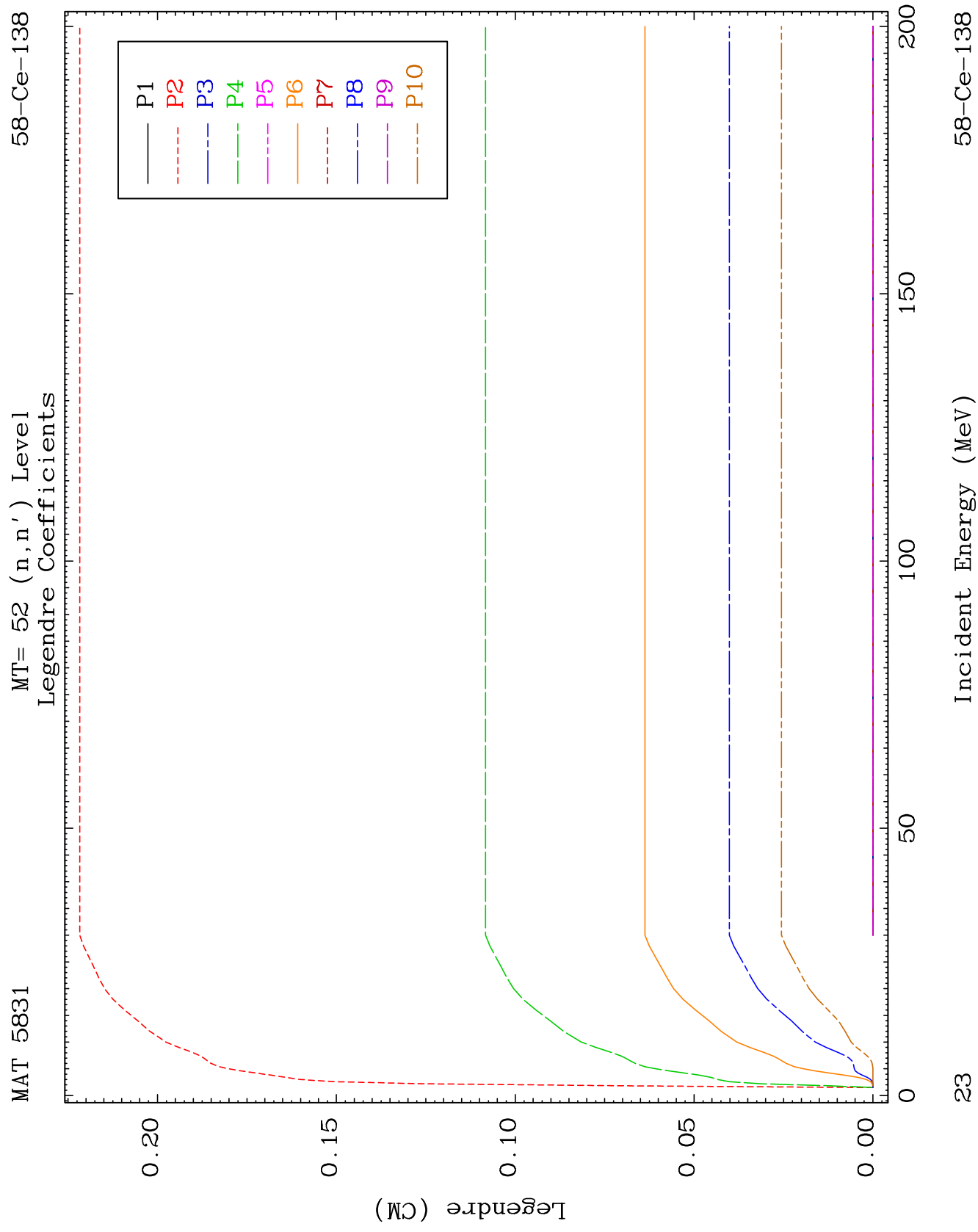
MAT 5831

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

58-Ce-138



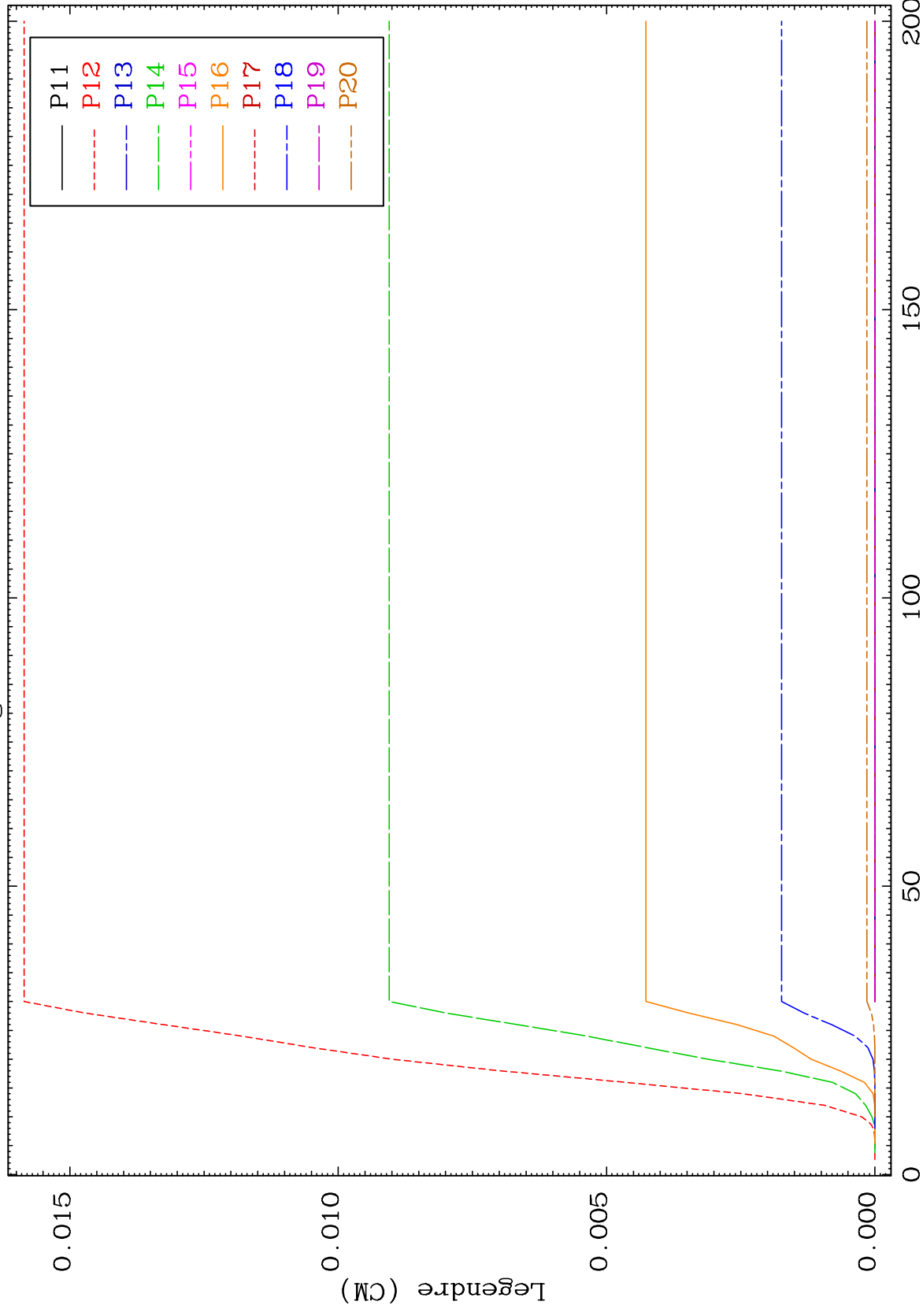




MAT 5831

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

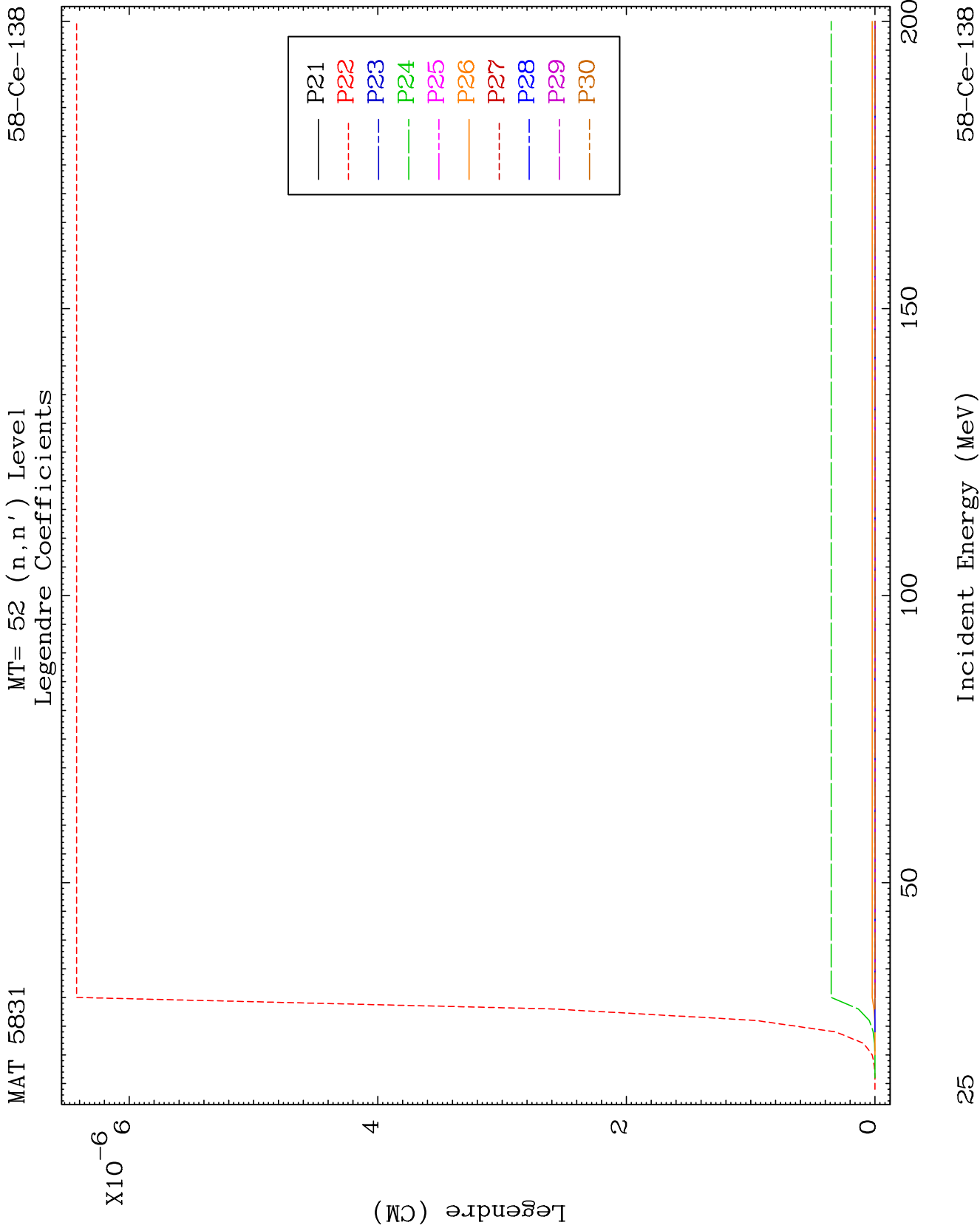
58-Ce-138

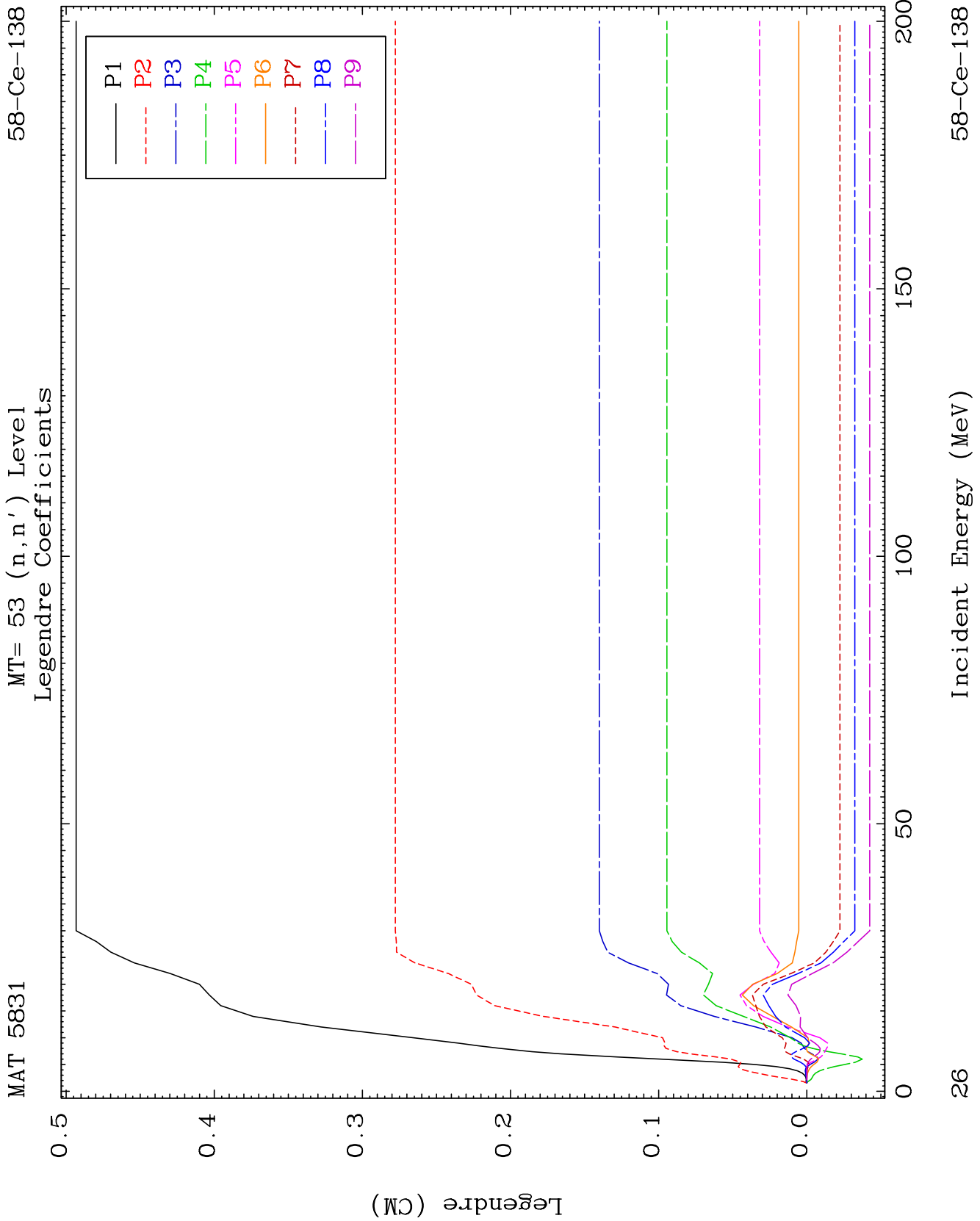


24

Incident Energy (MeV)

58-Ce-138

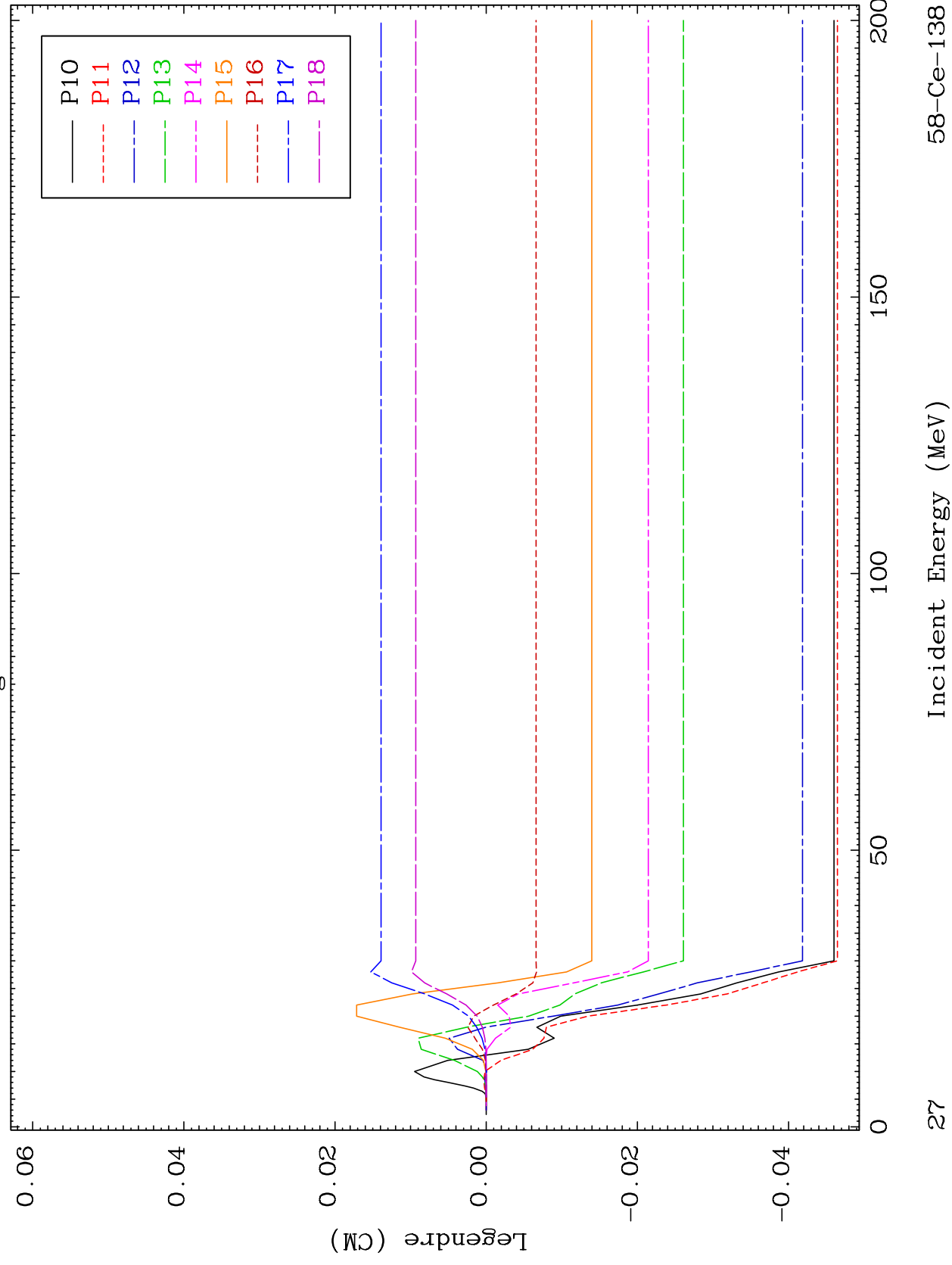


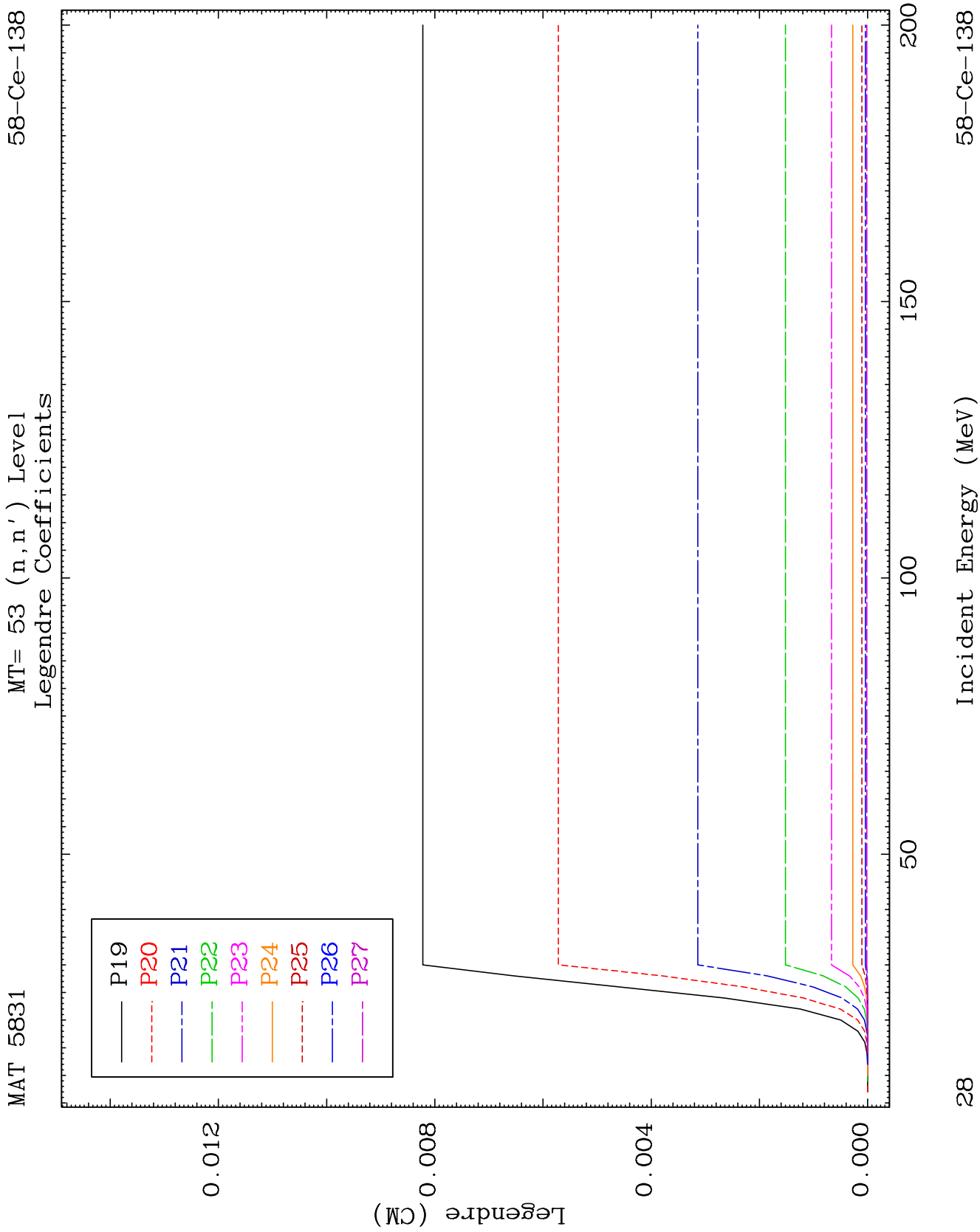


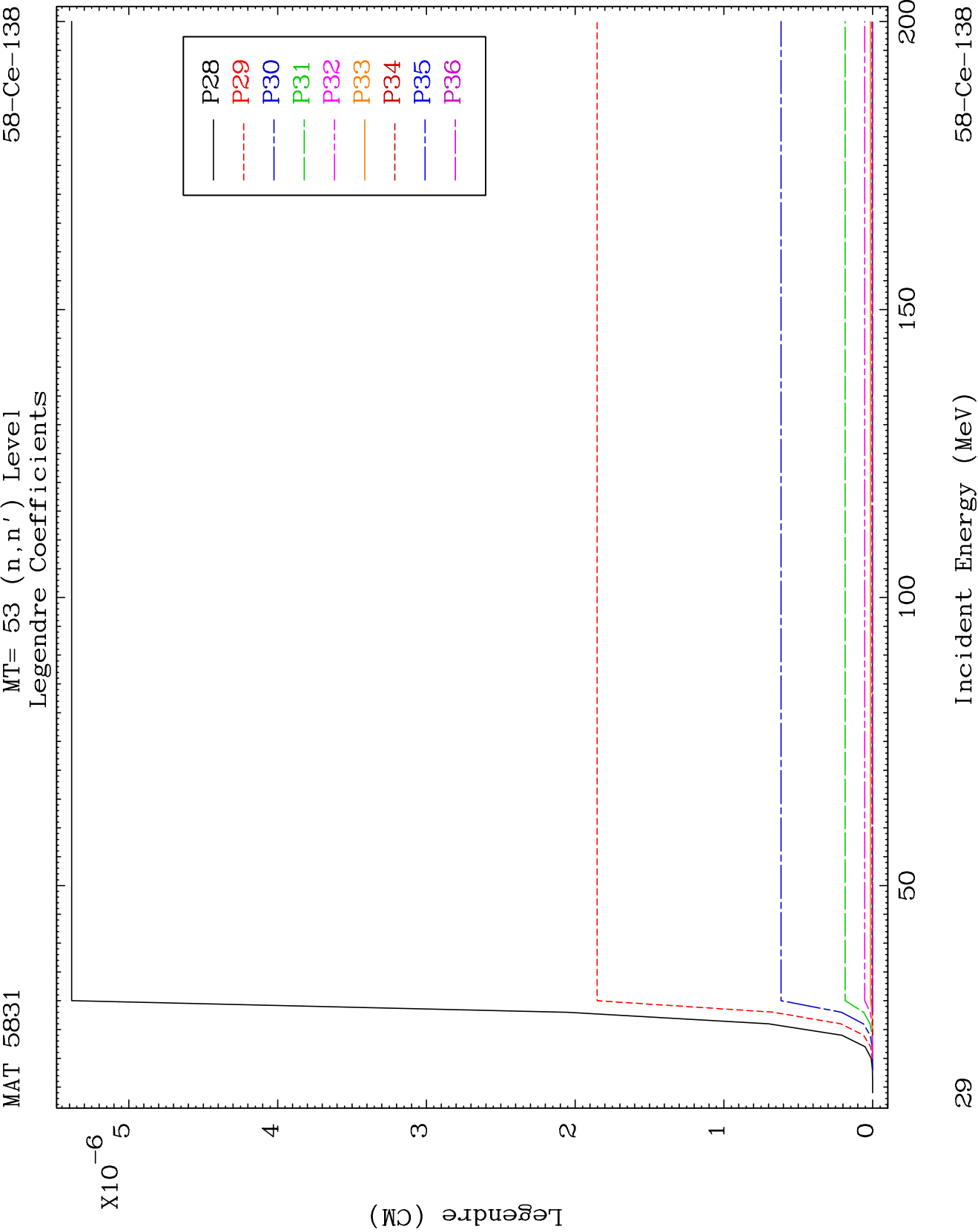
MAT 5831

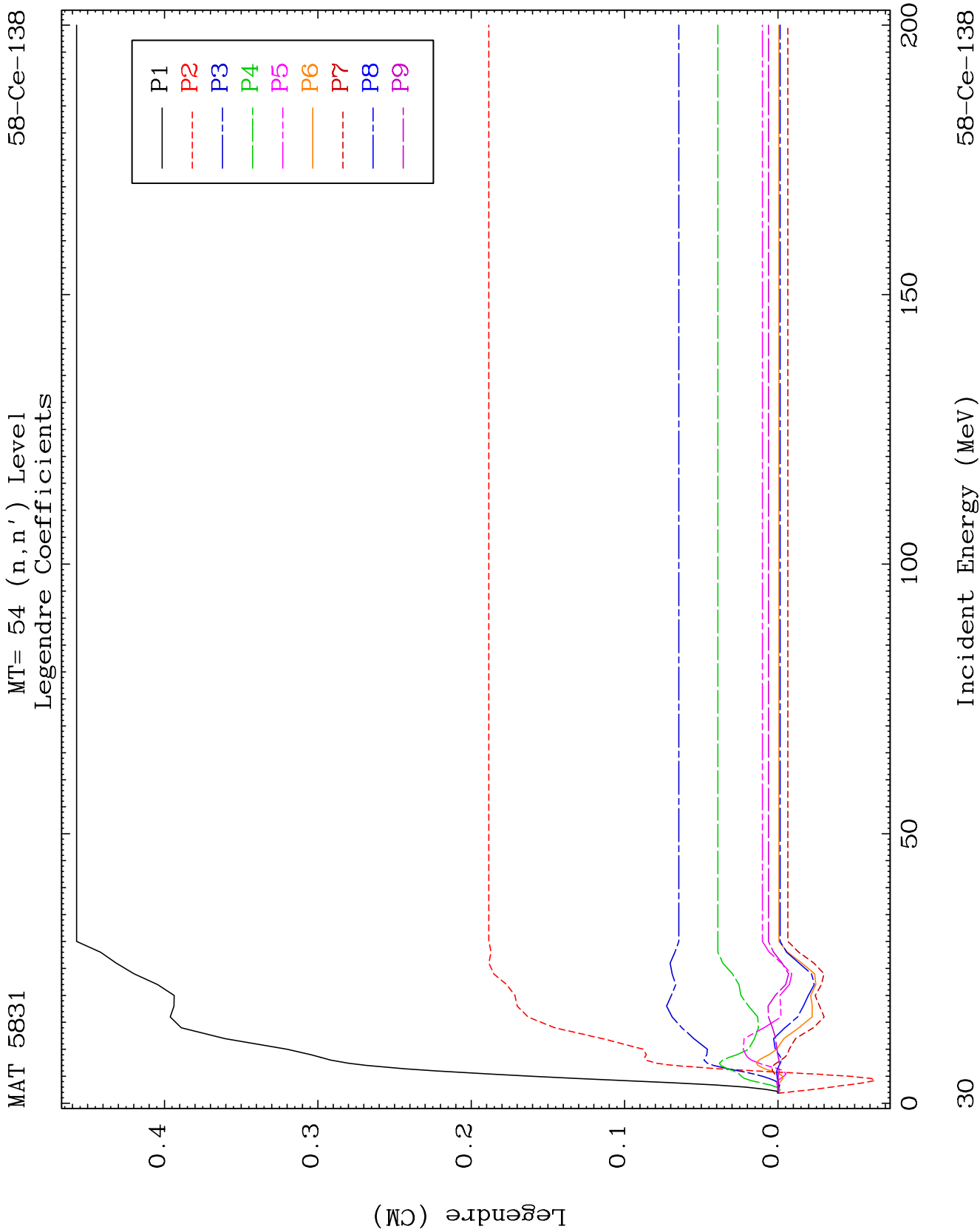
MT= 53 (n, n') Level
Legendre Coefficients

58-Ce-138





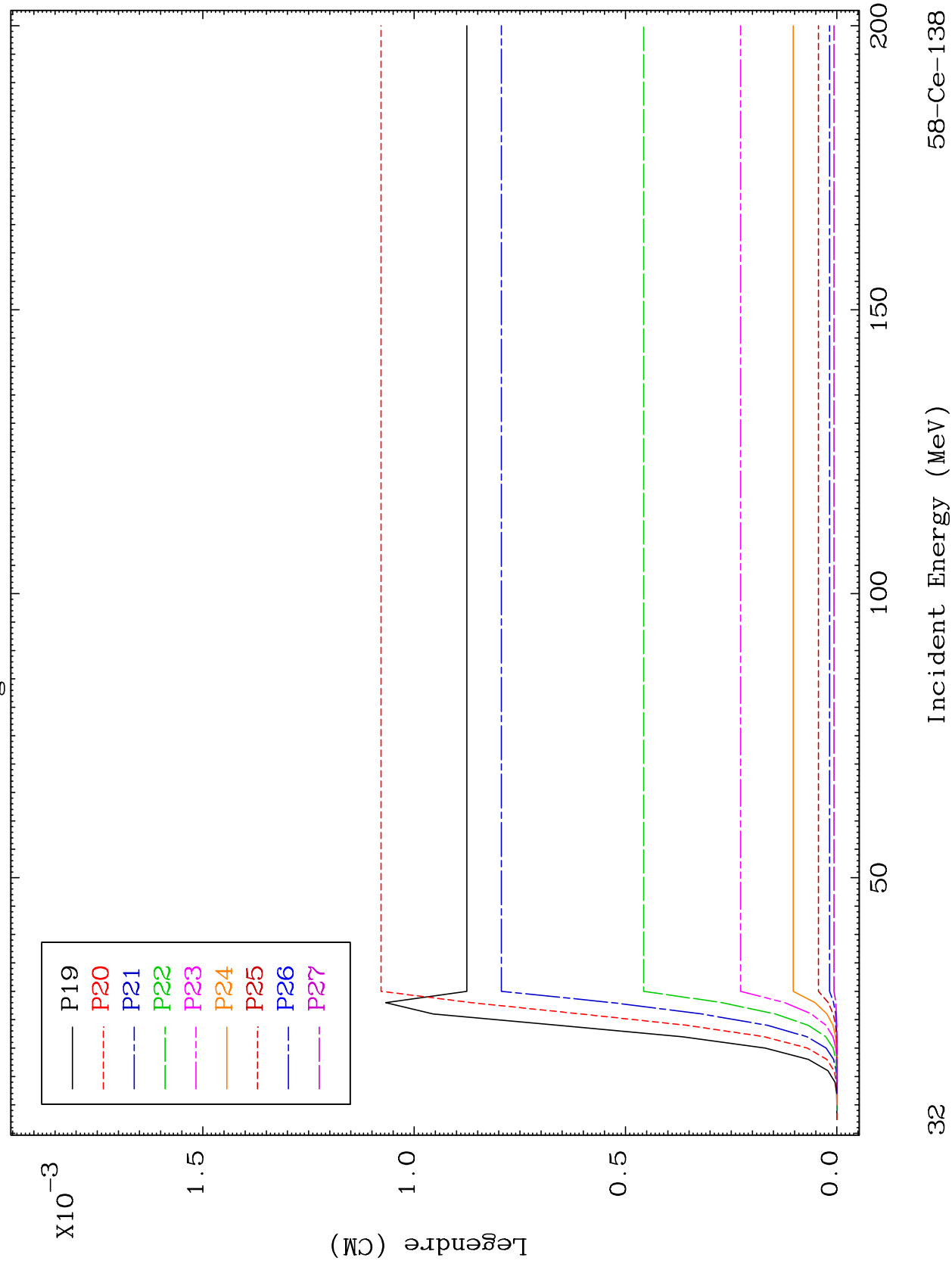


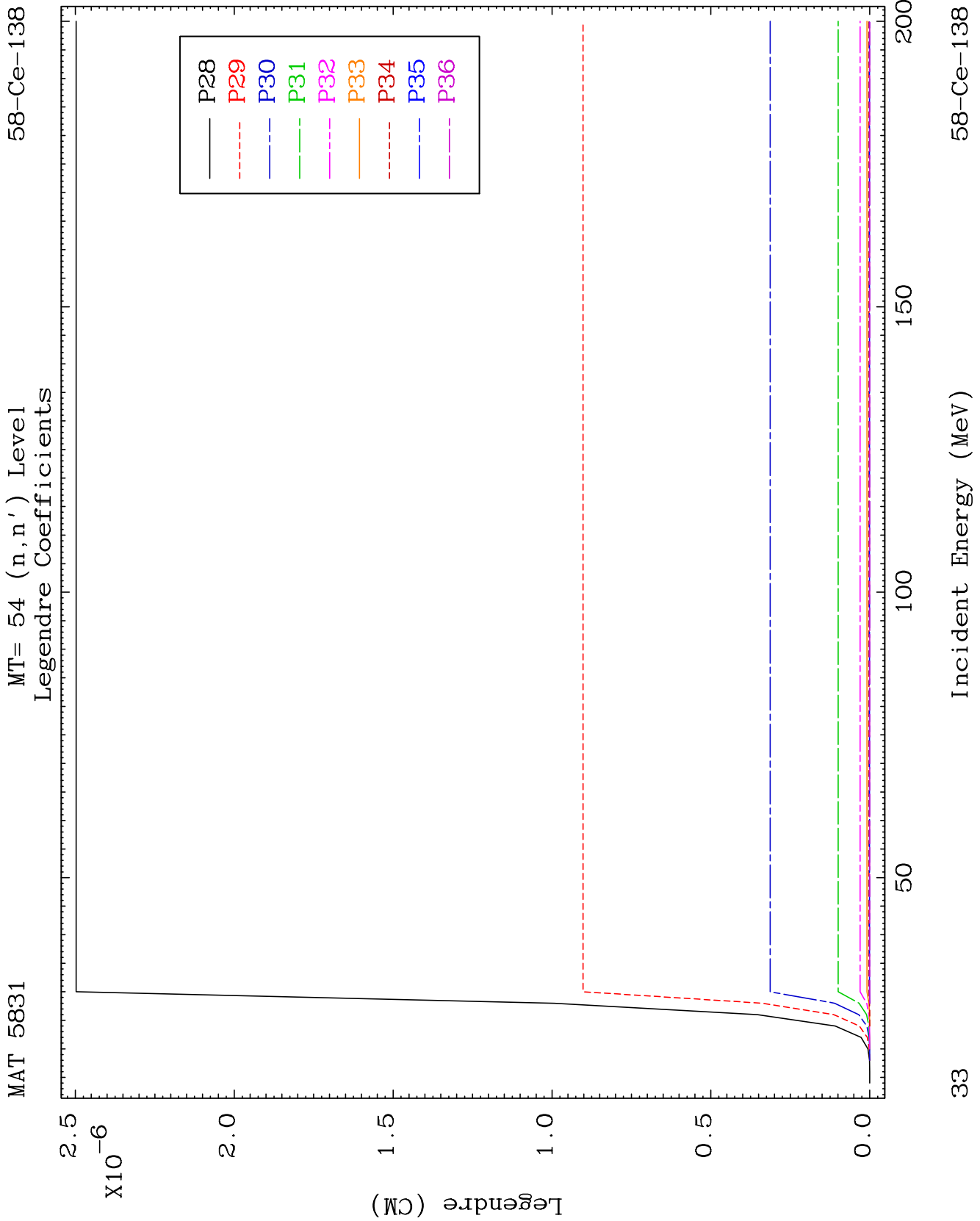


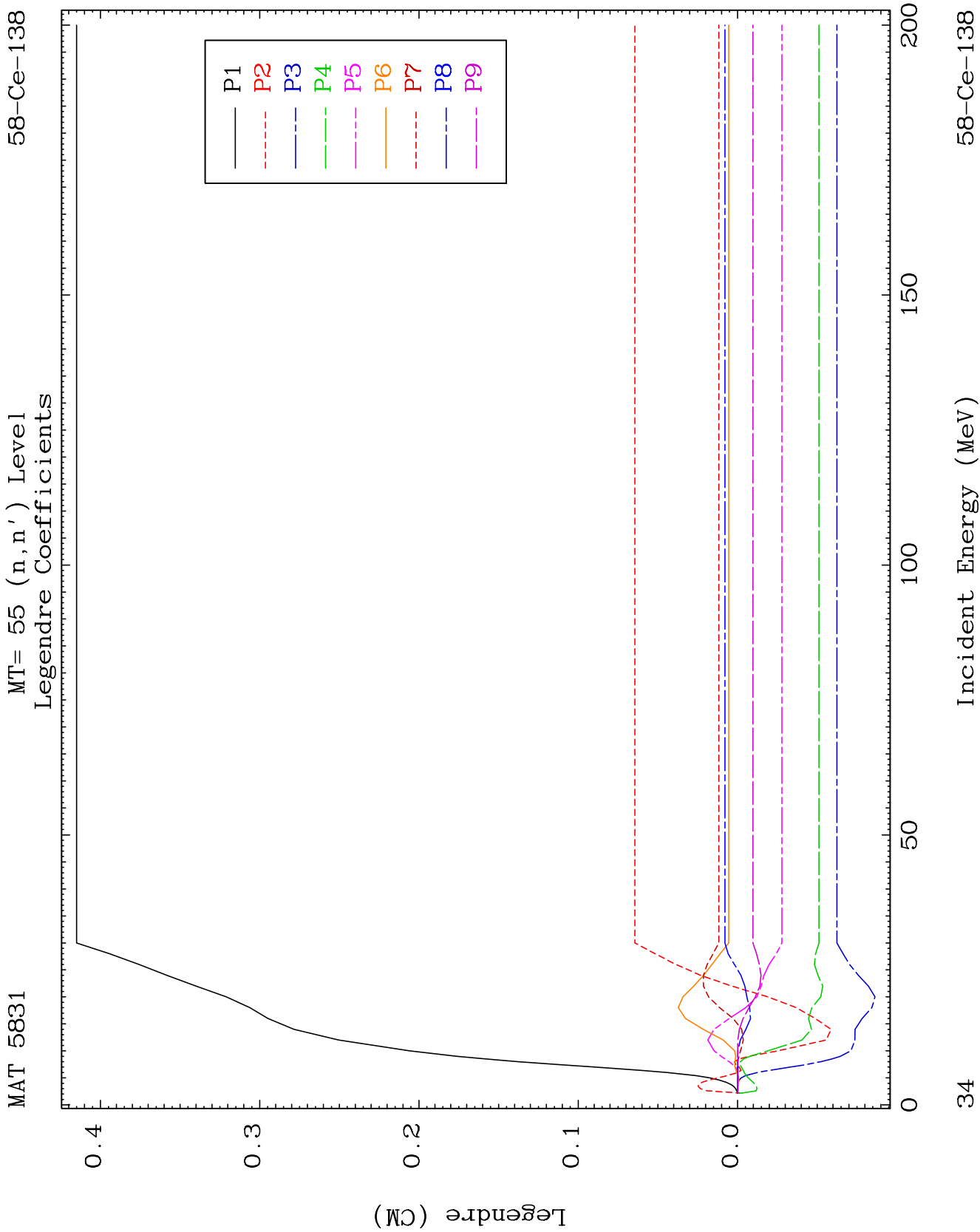
MAT 5831

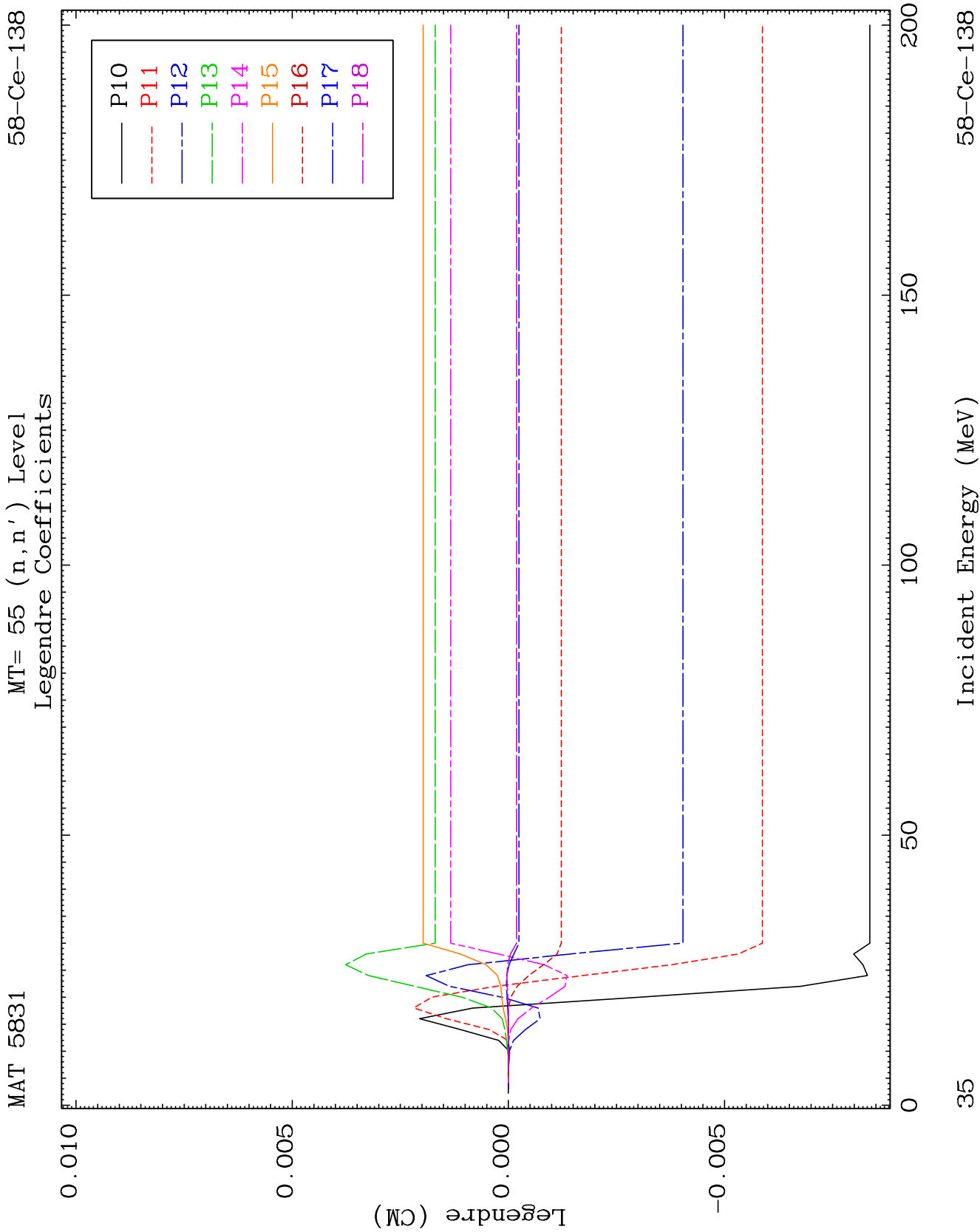
MT= 54 (n, n') Level
Legendre Coefficients

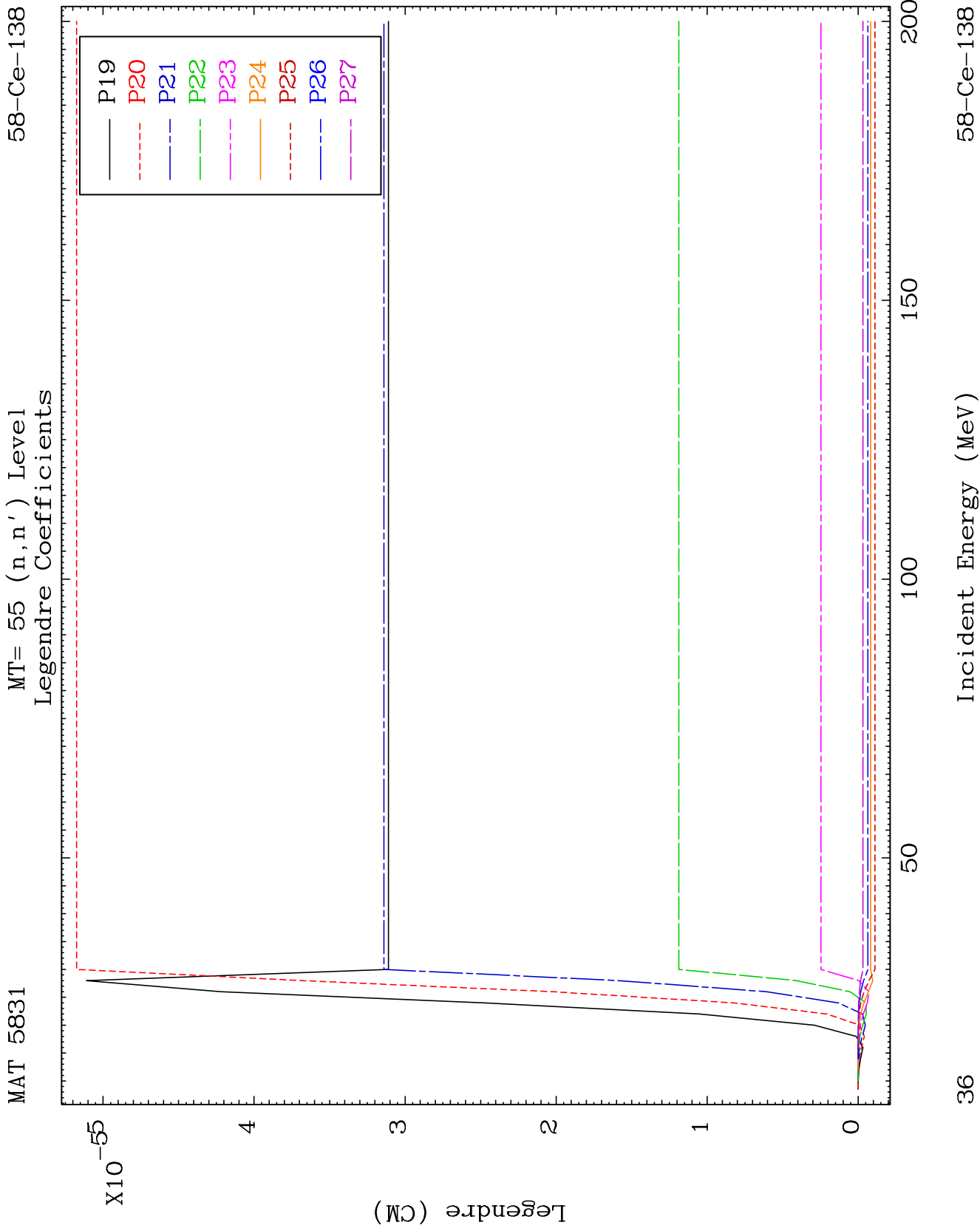
58-Ce-138

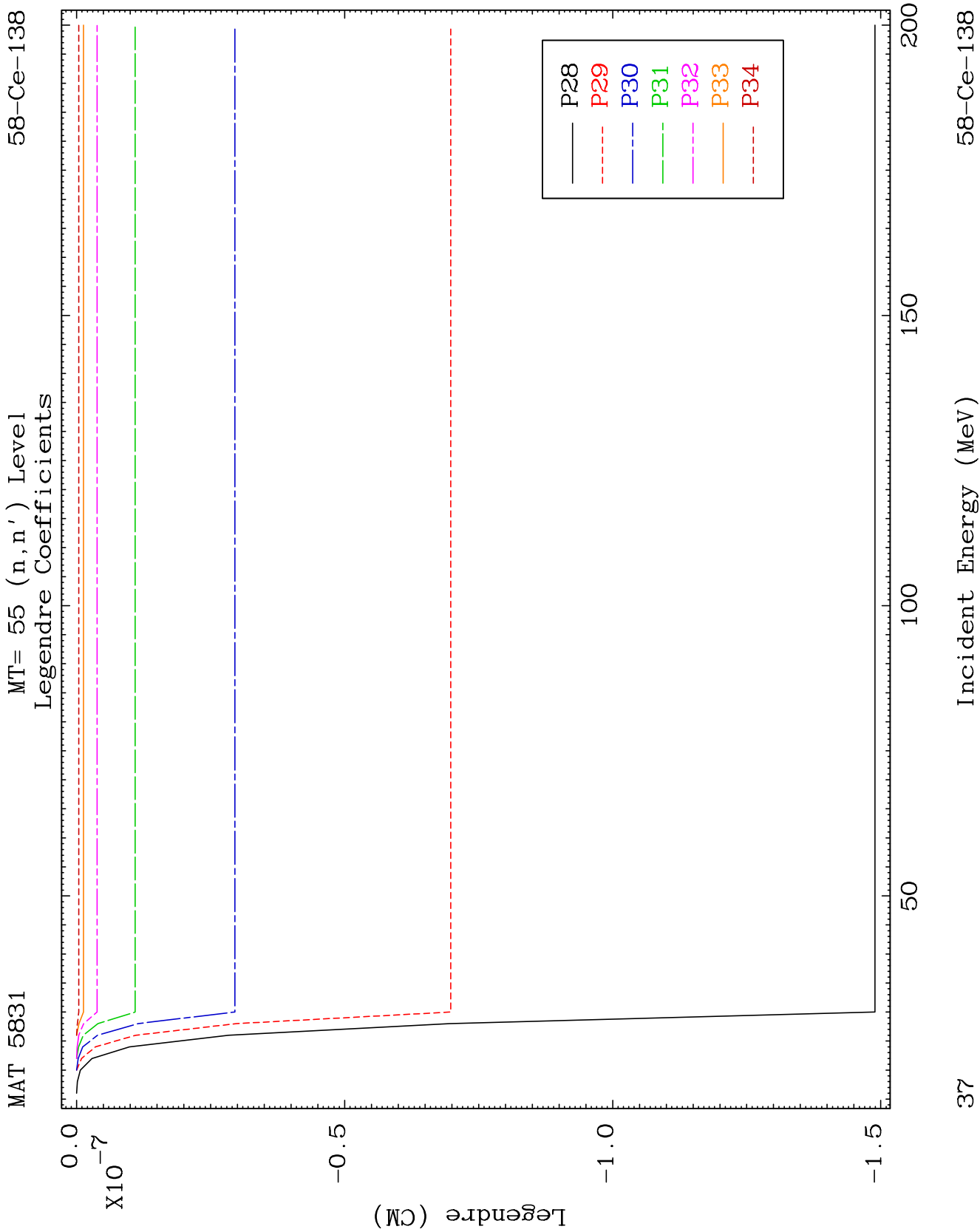








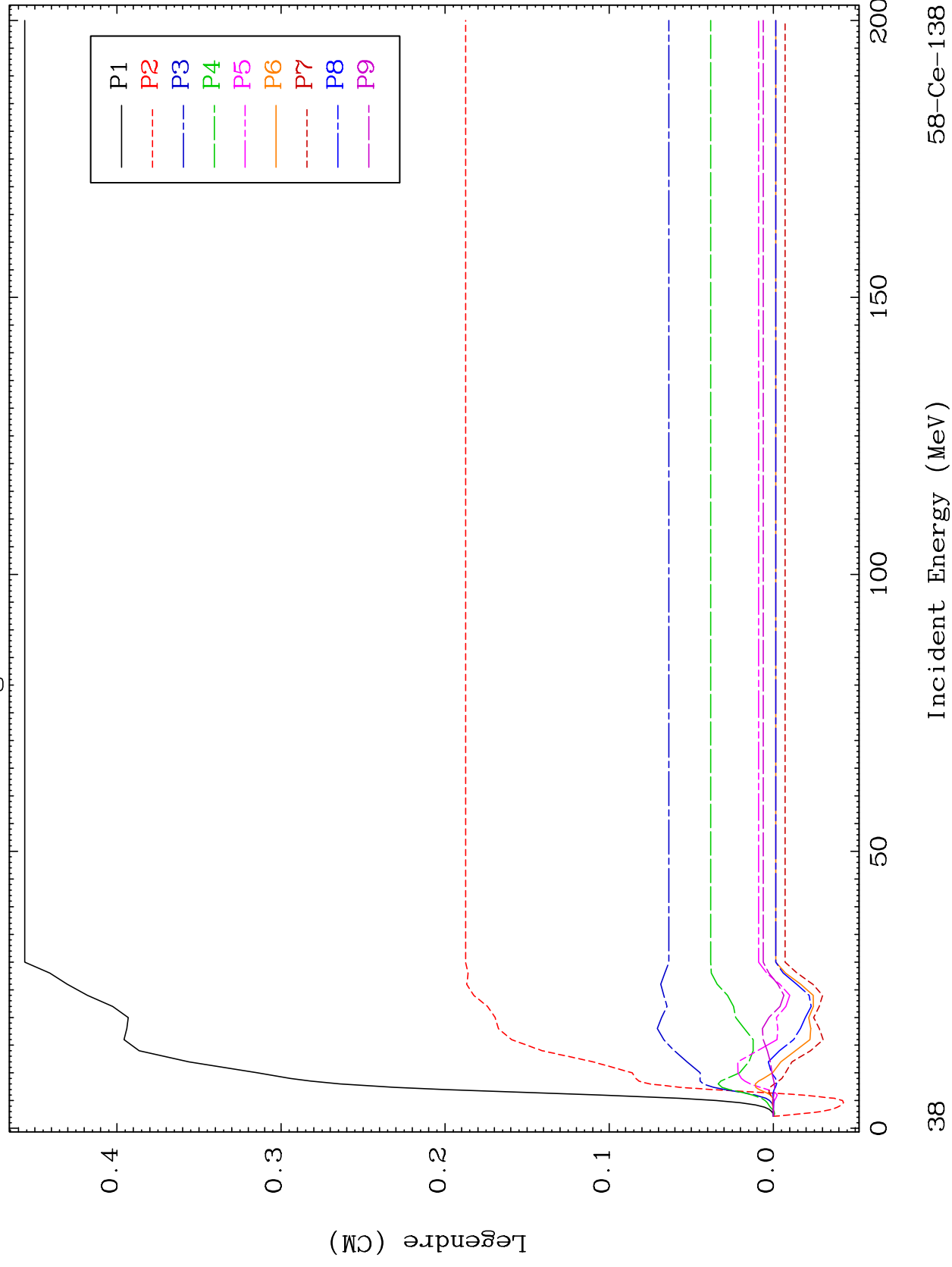




MAT 5831

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

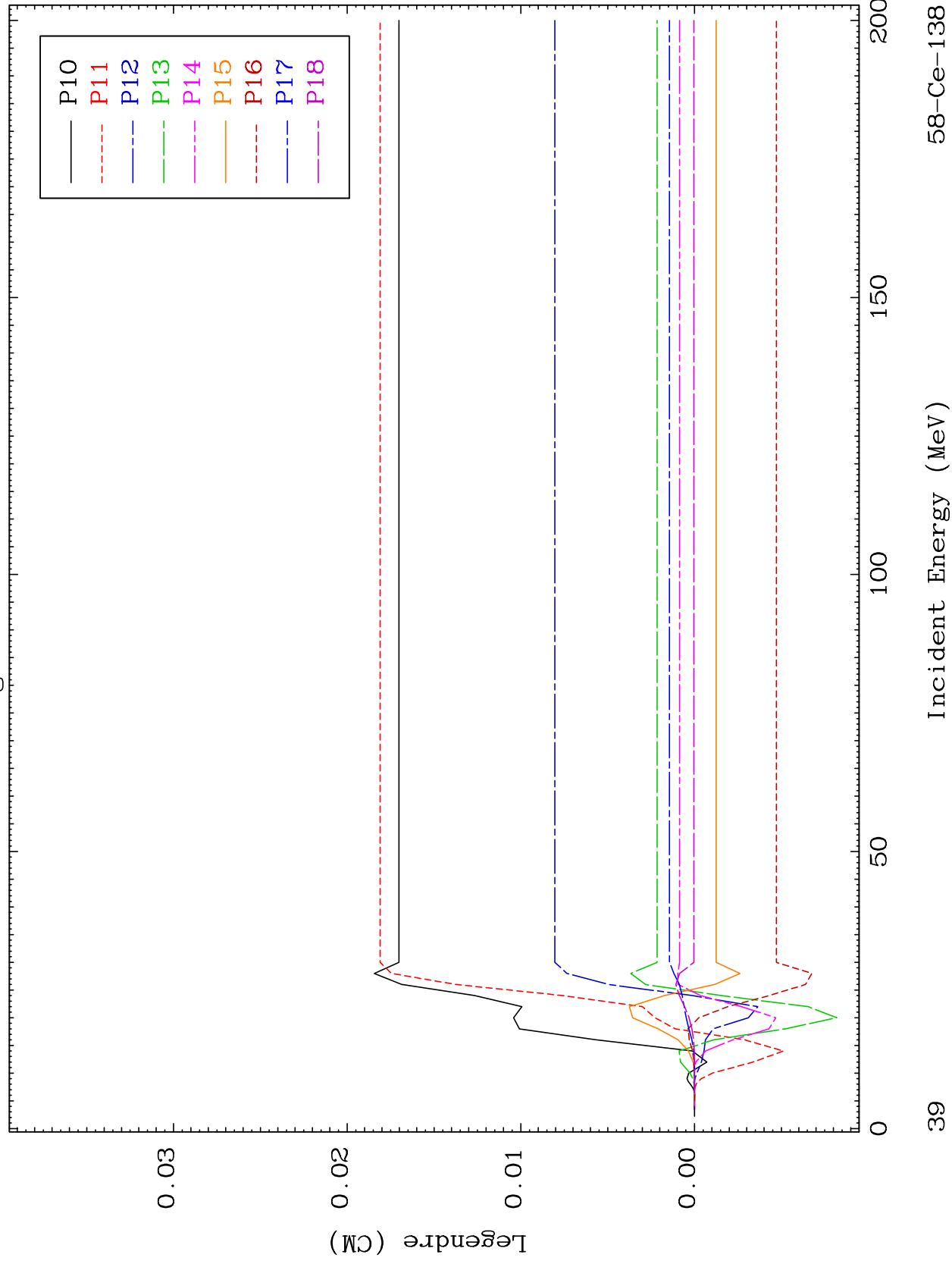
58-Ce-138



MAT 5831

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

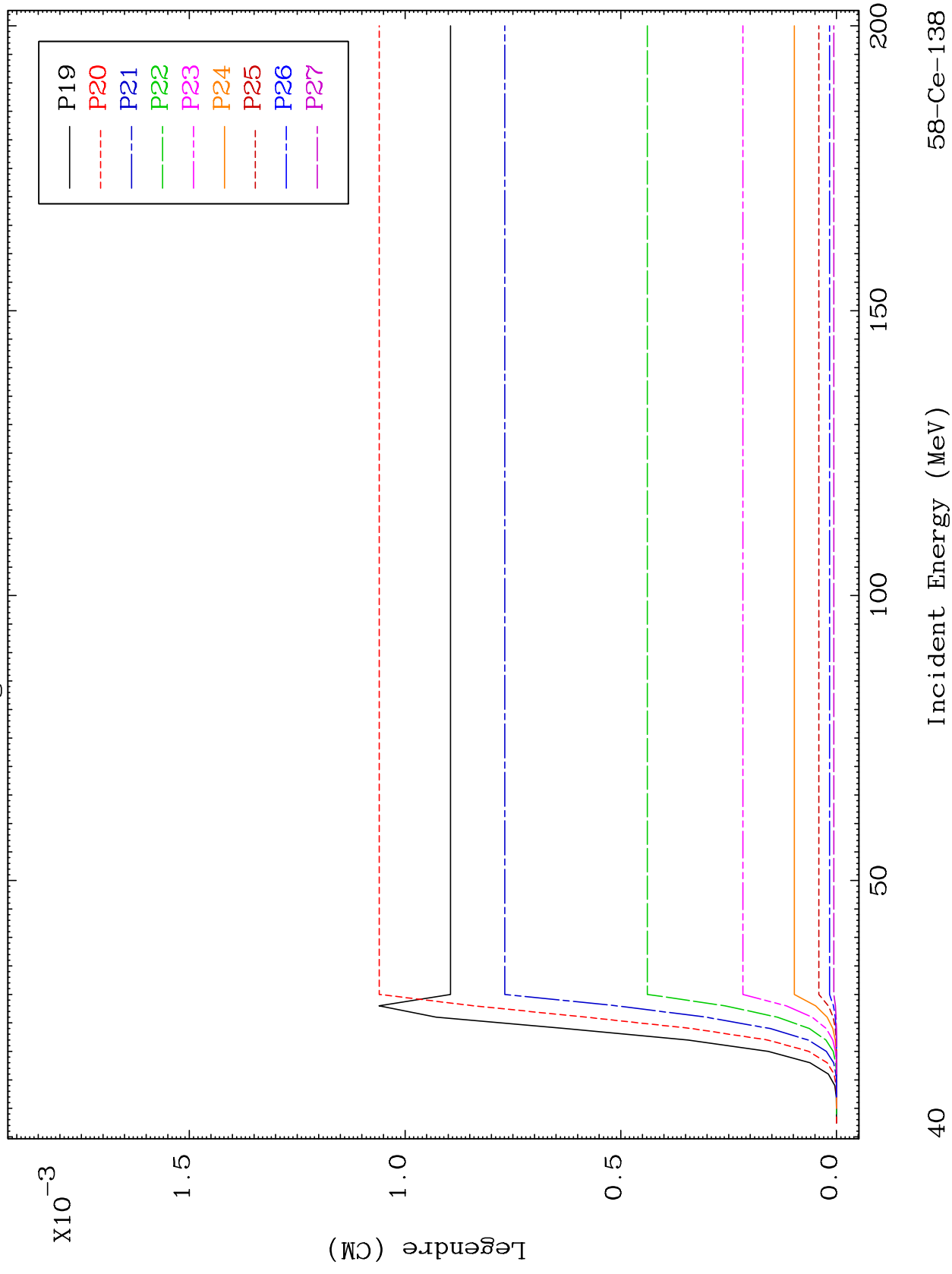
58-Ce-138



MAT 5831

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

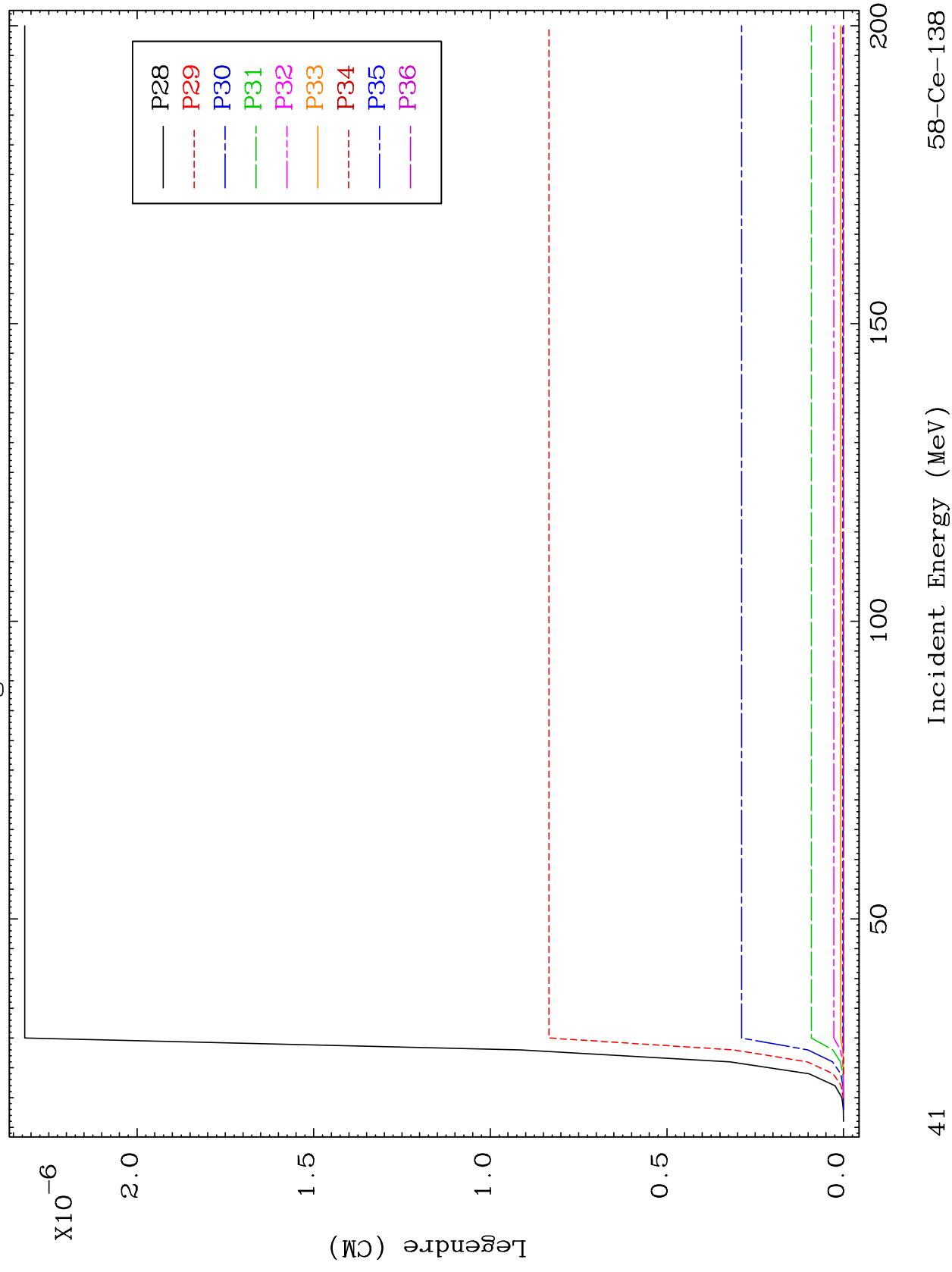
58-Ce-138



MAT 5831

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

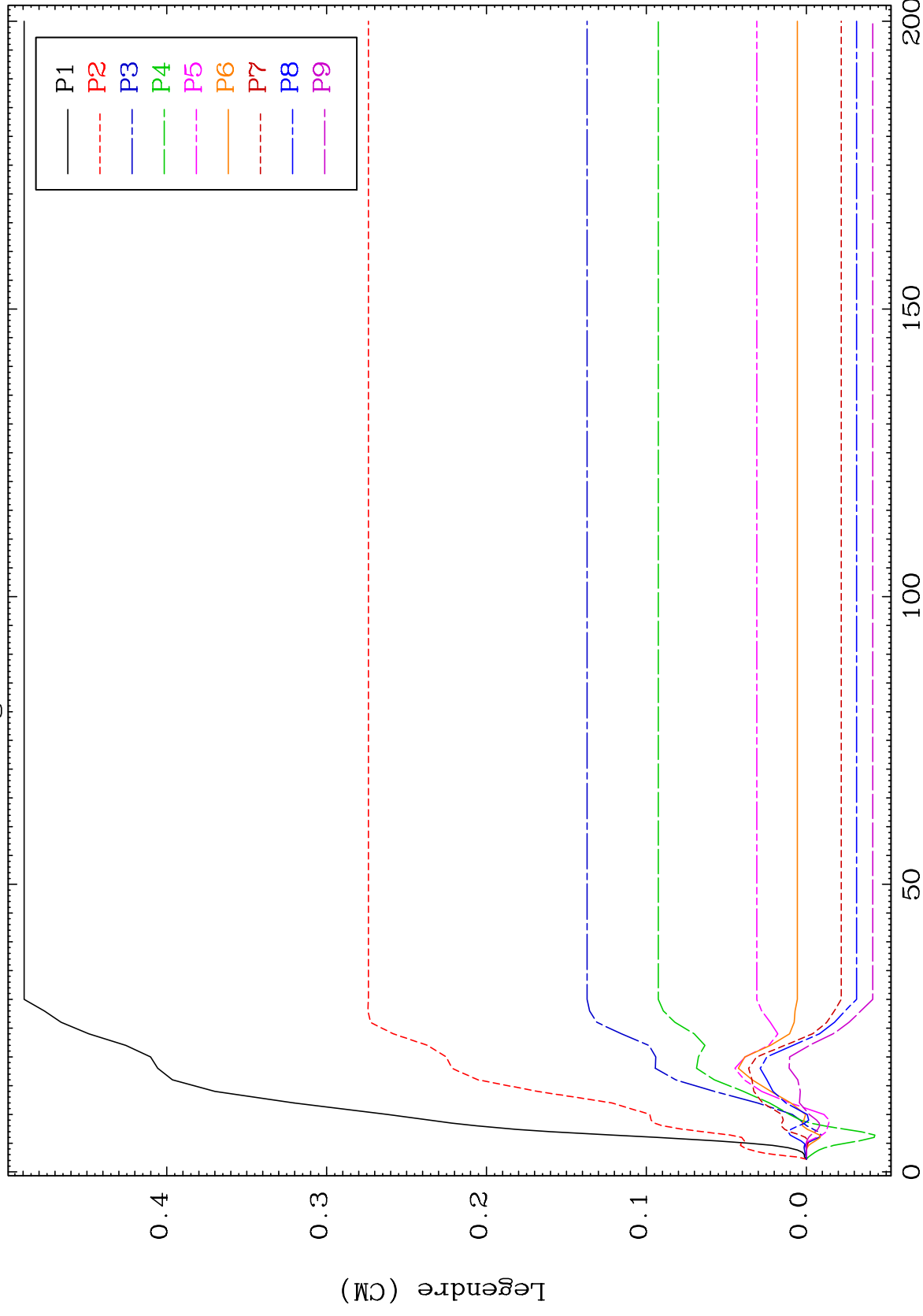
58-Ce-138



MAT 5831

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

58-Ce-138



42

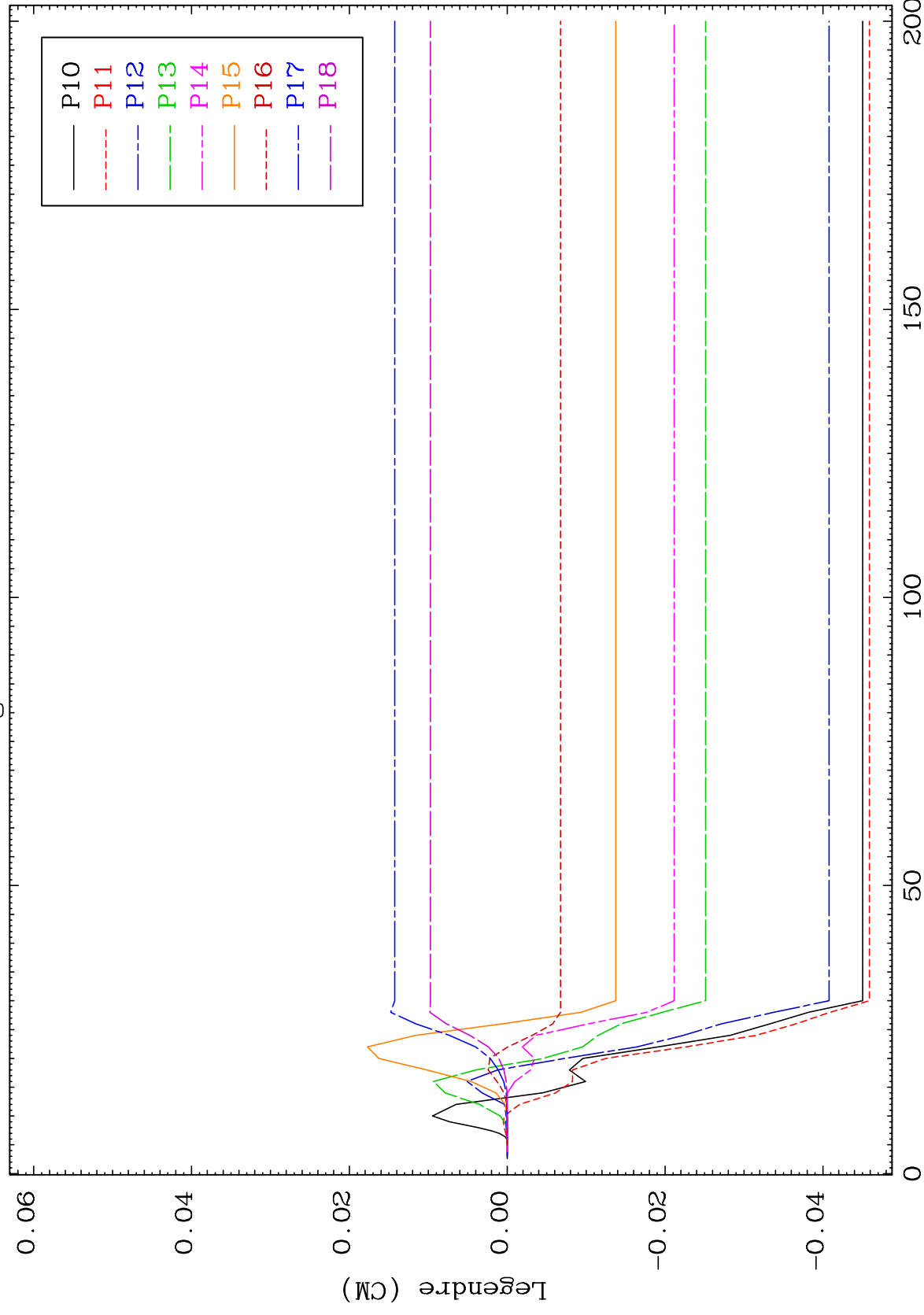
Incident Energy (MeV)

58-Ce-138

MAT 5831

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

58-Ce-138



43

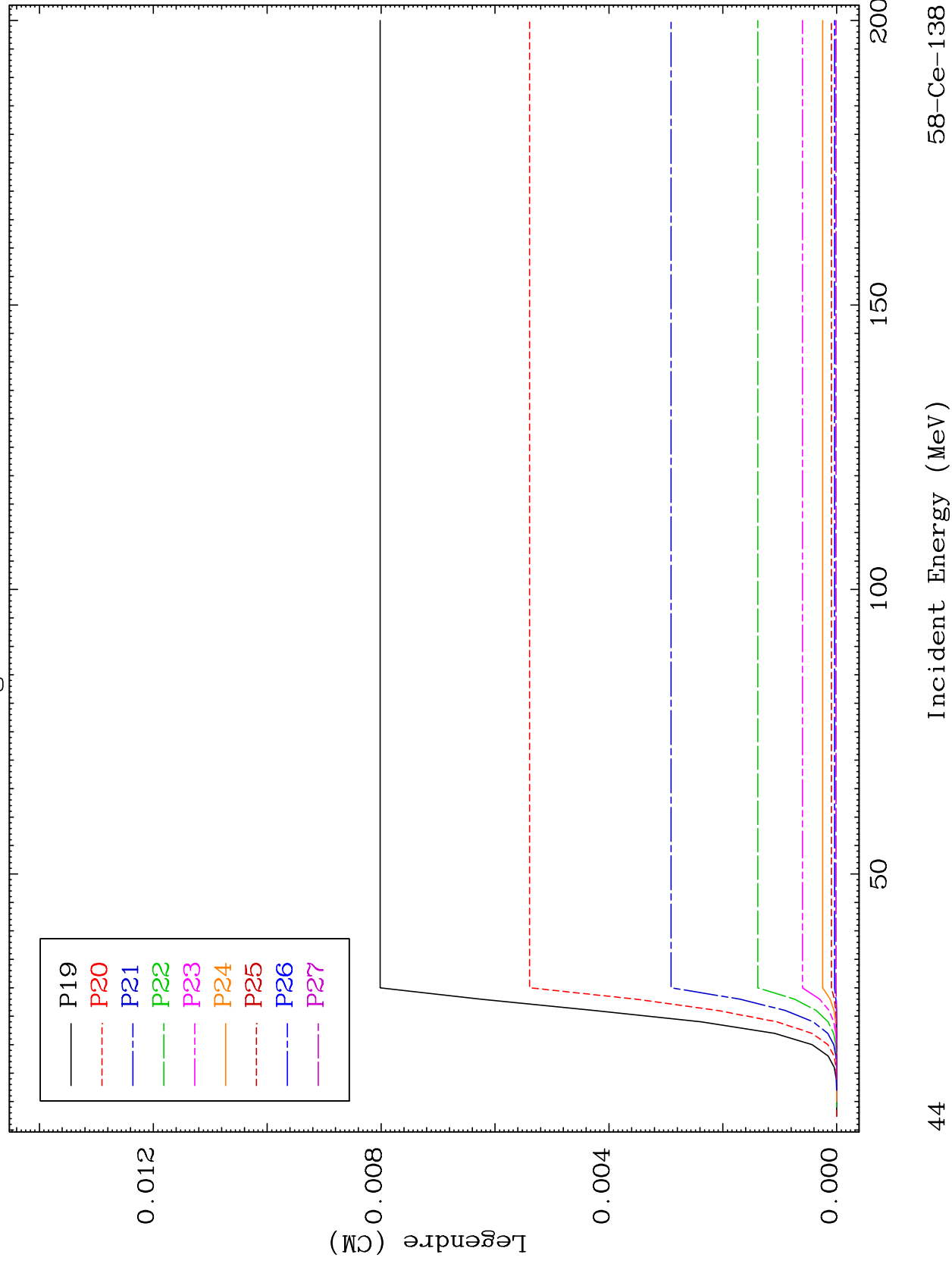
Incident Energy (MeV)

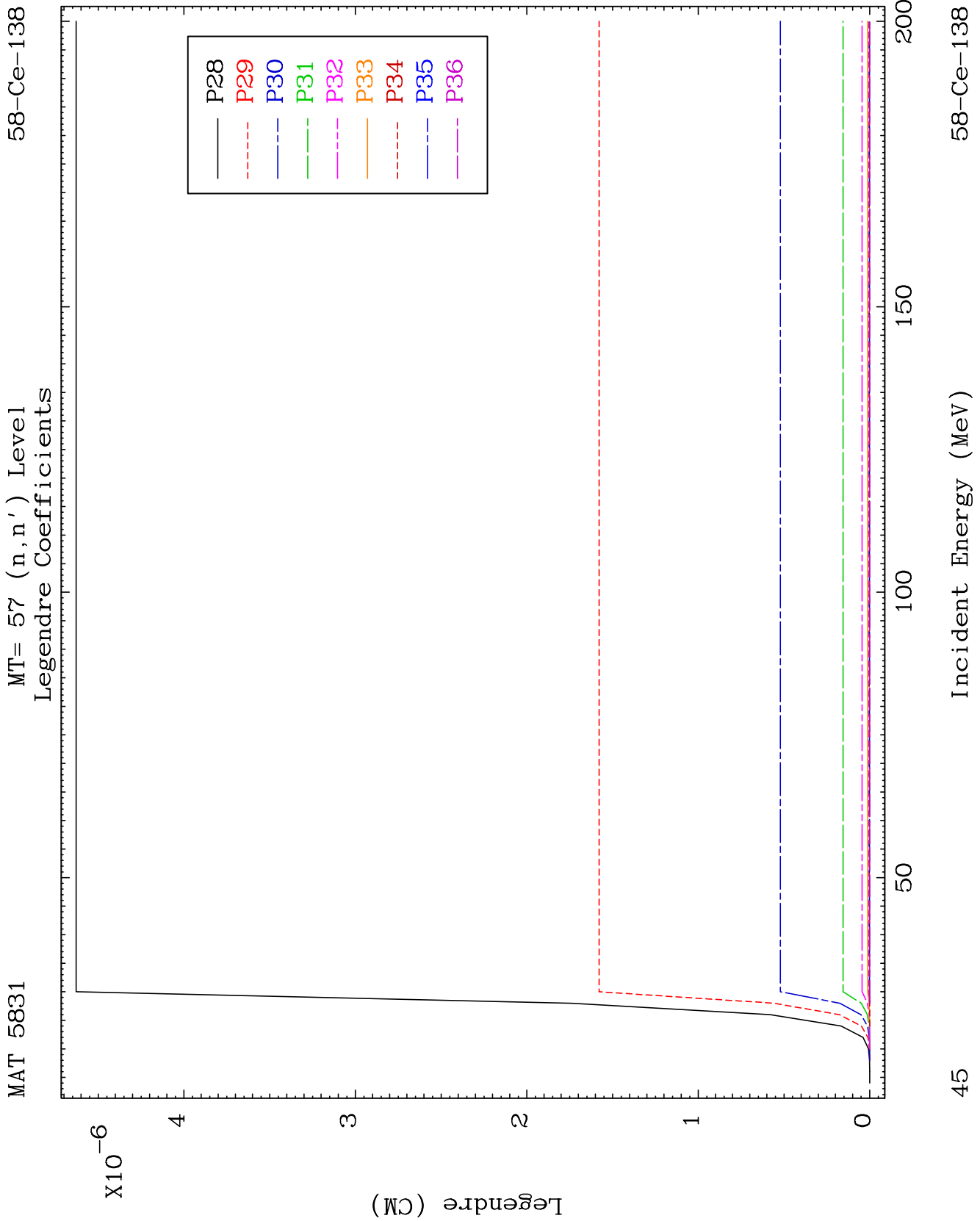
58-Ce-138

MAT 5831

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

58-Ce-138

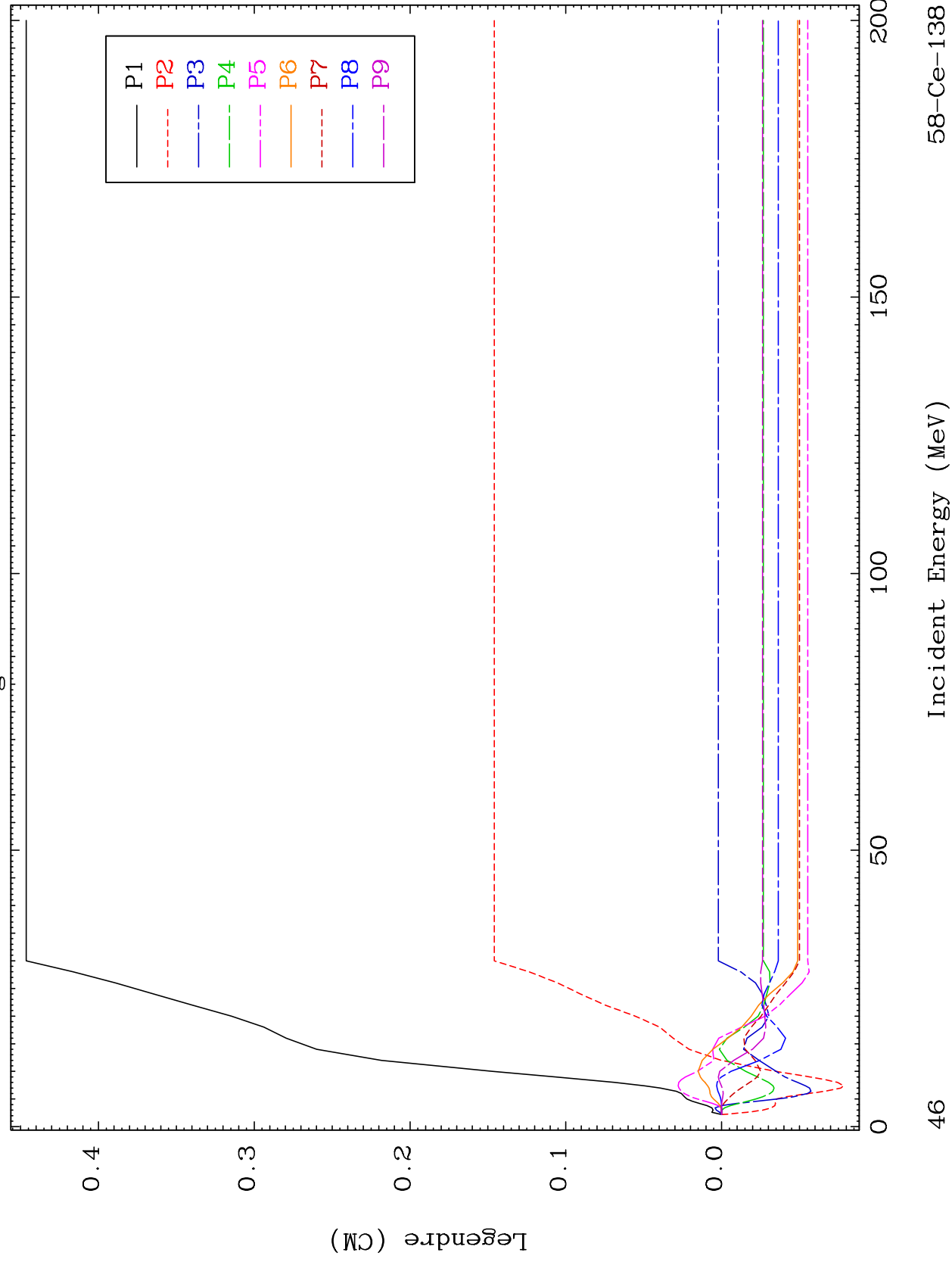




MAT 5831

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

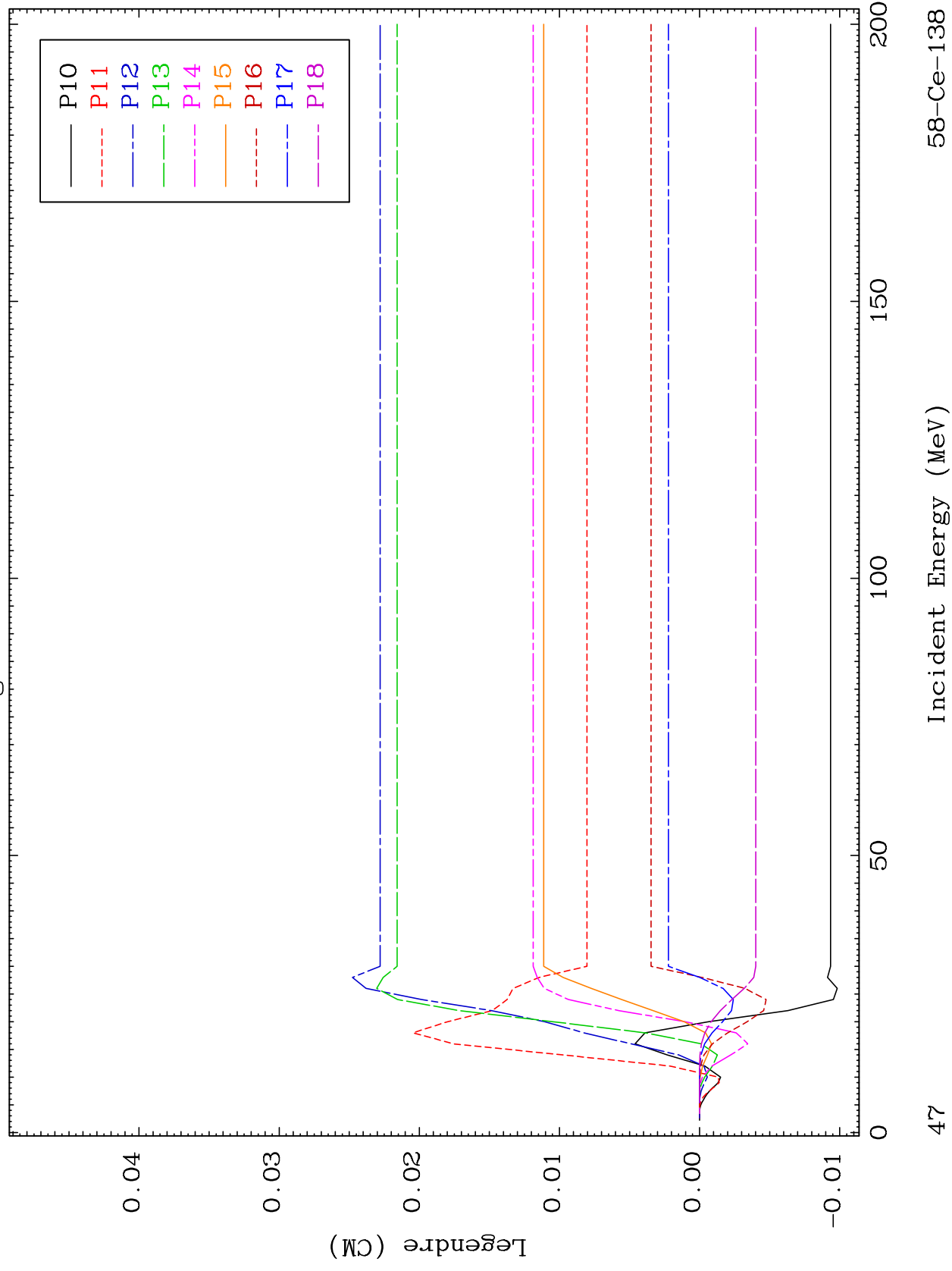
58-Ce-138



MAT 5831

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

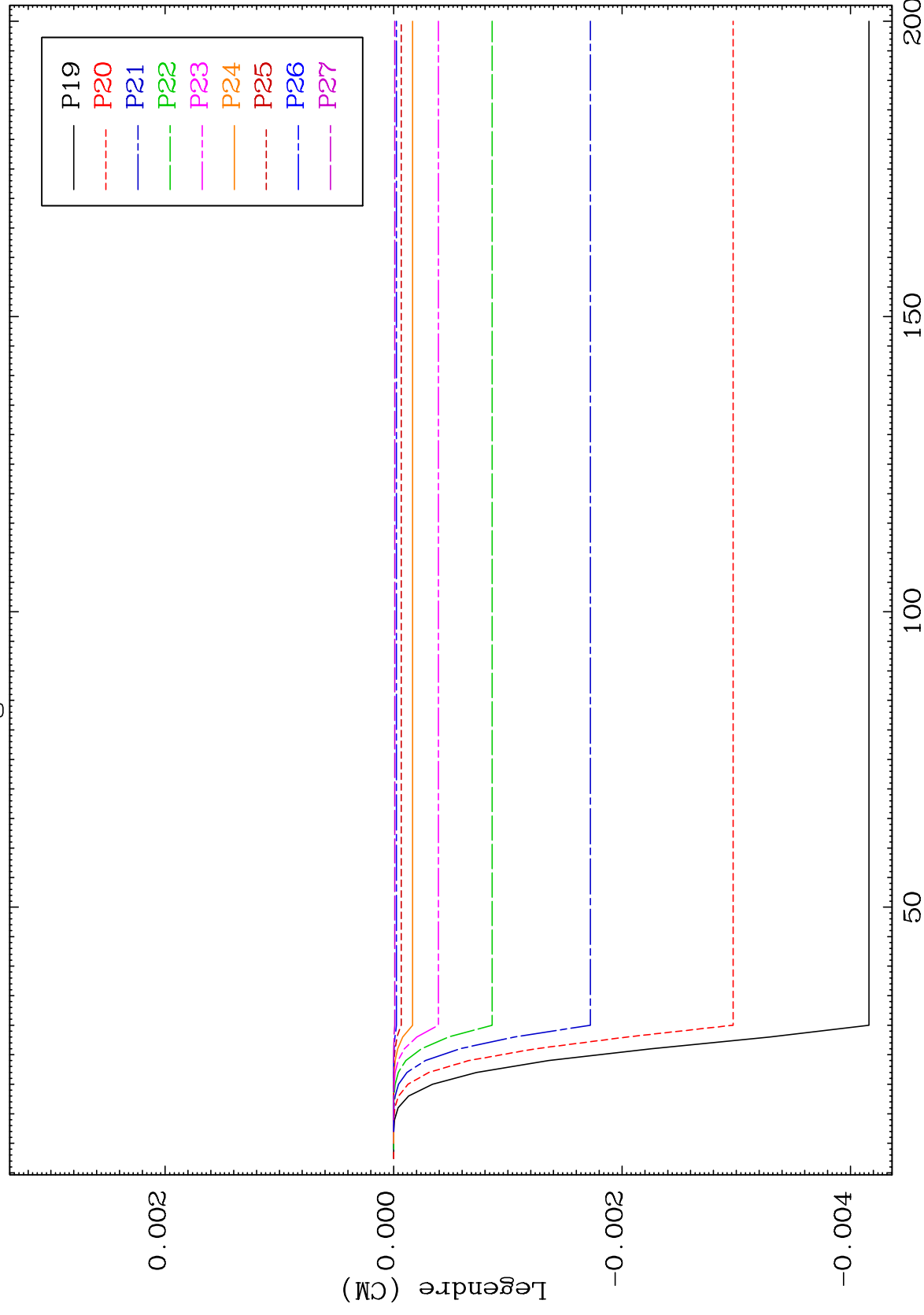
58-Ce-138



MAT 5831

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

58-Ce-138



48

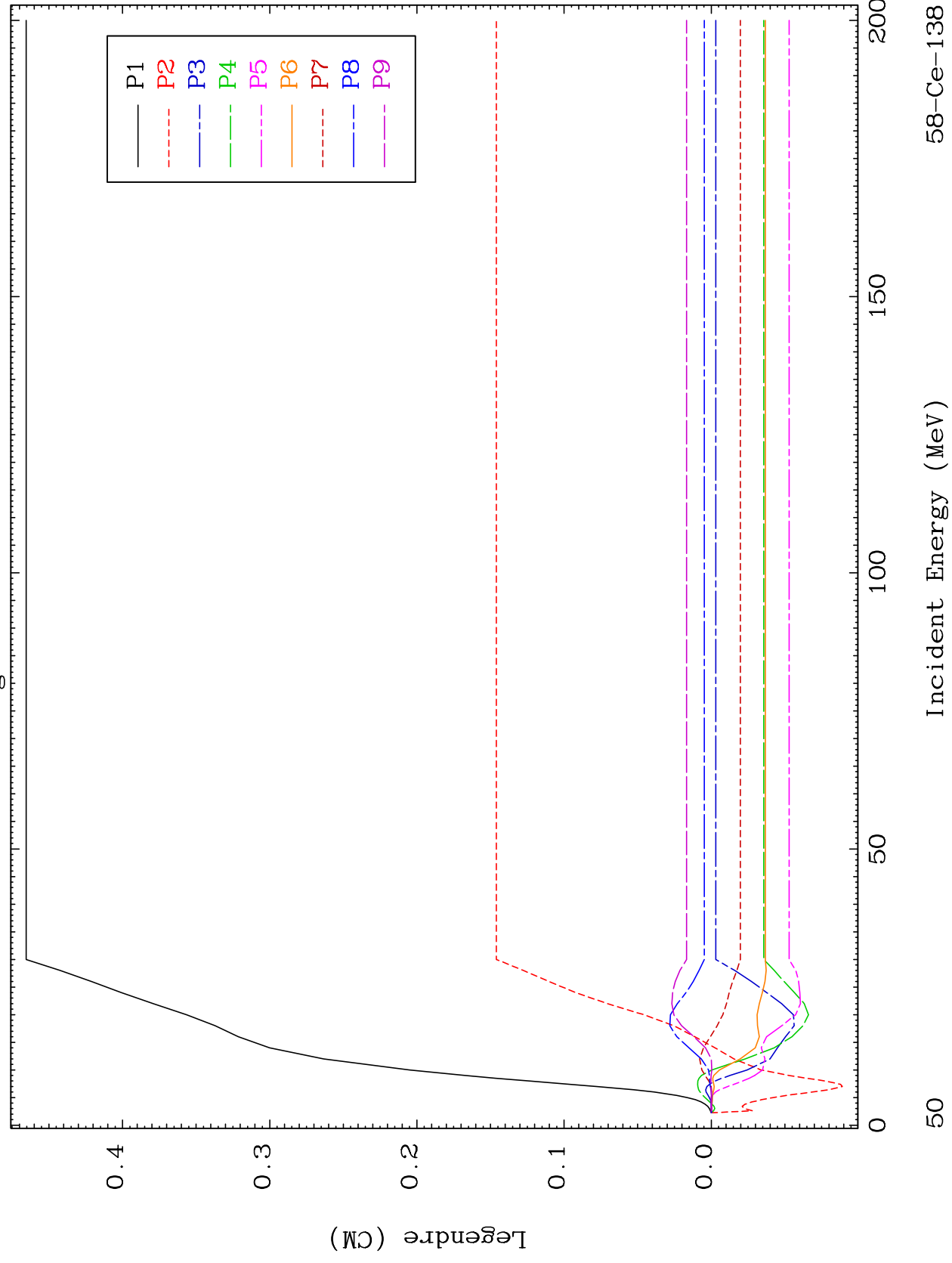
Incident Energy (MeV)

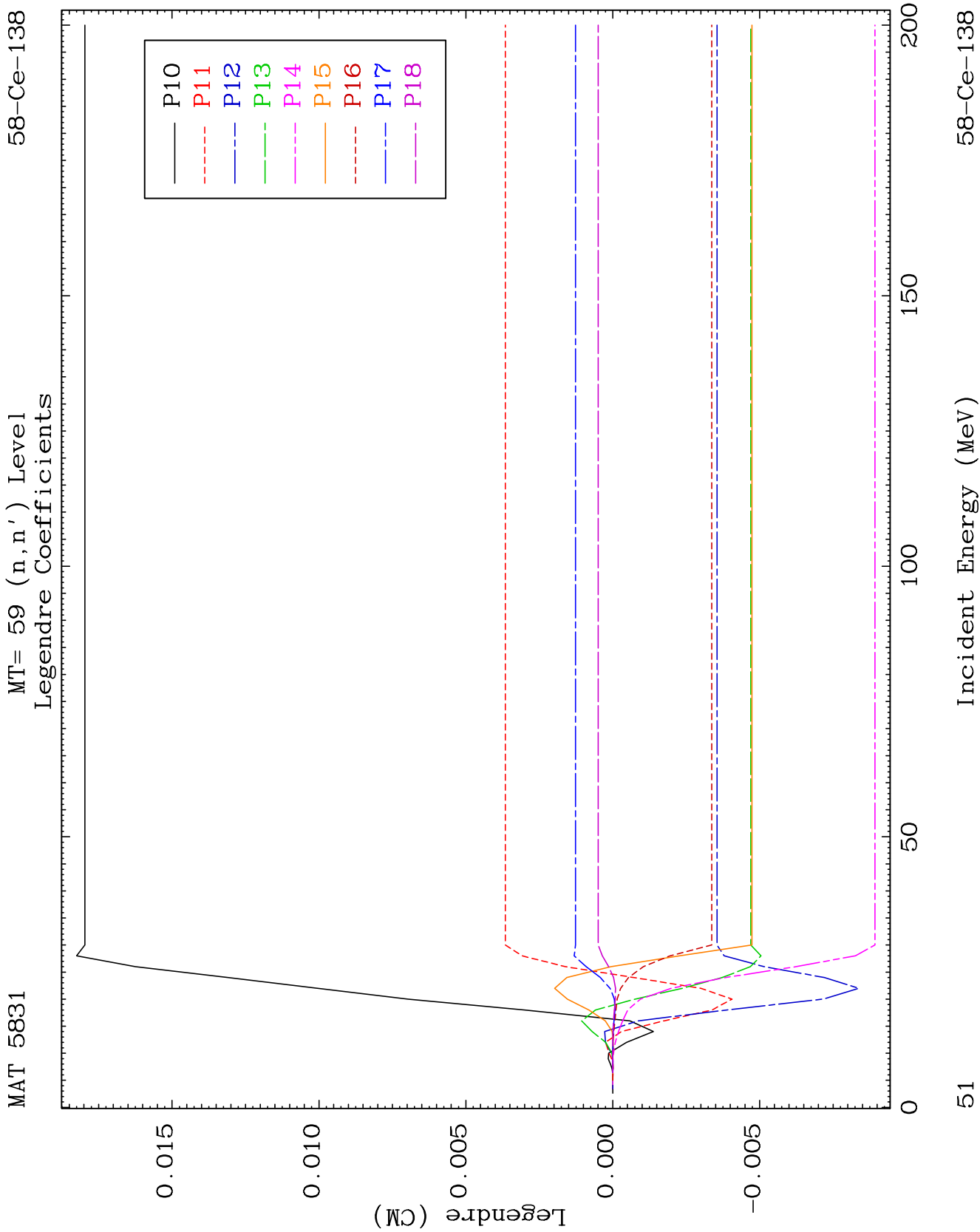
58-Ce-138

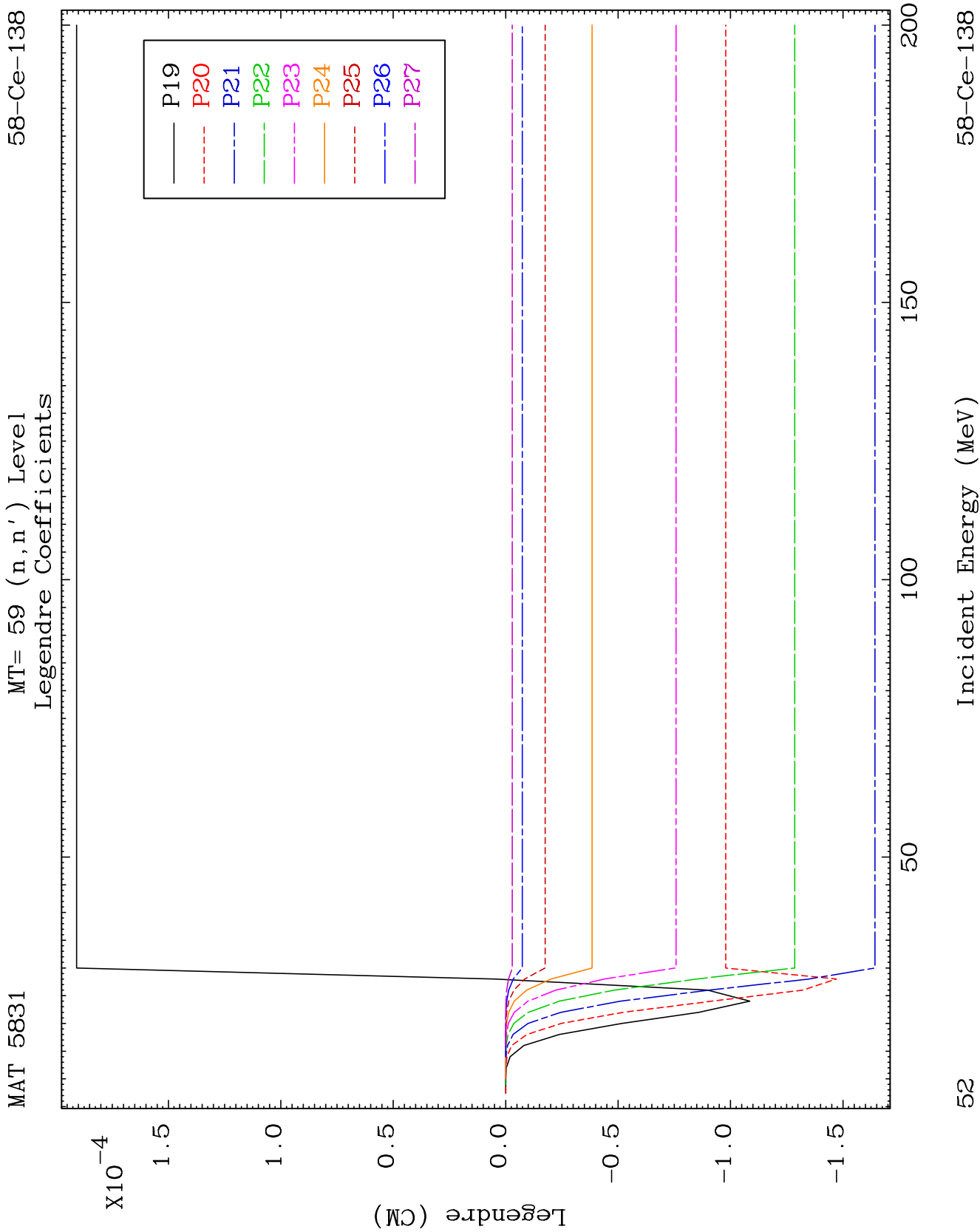
MAT 5831

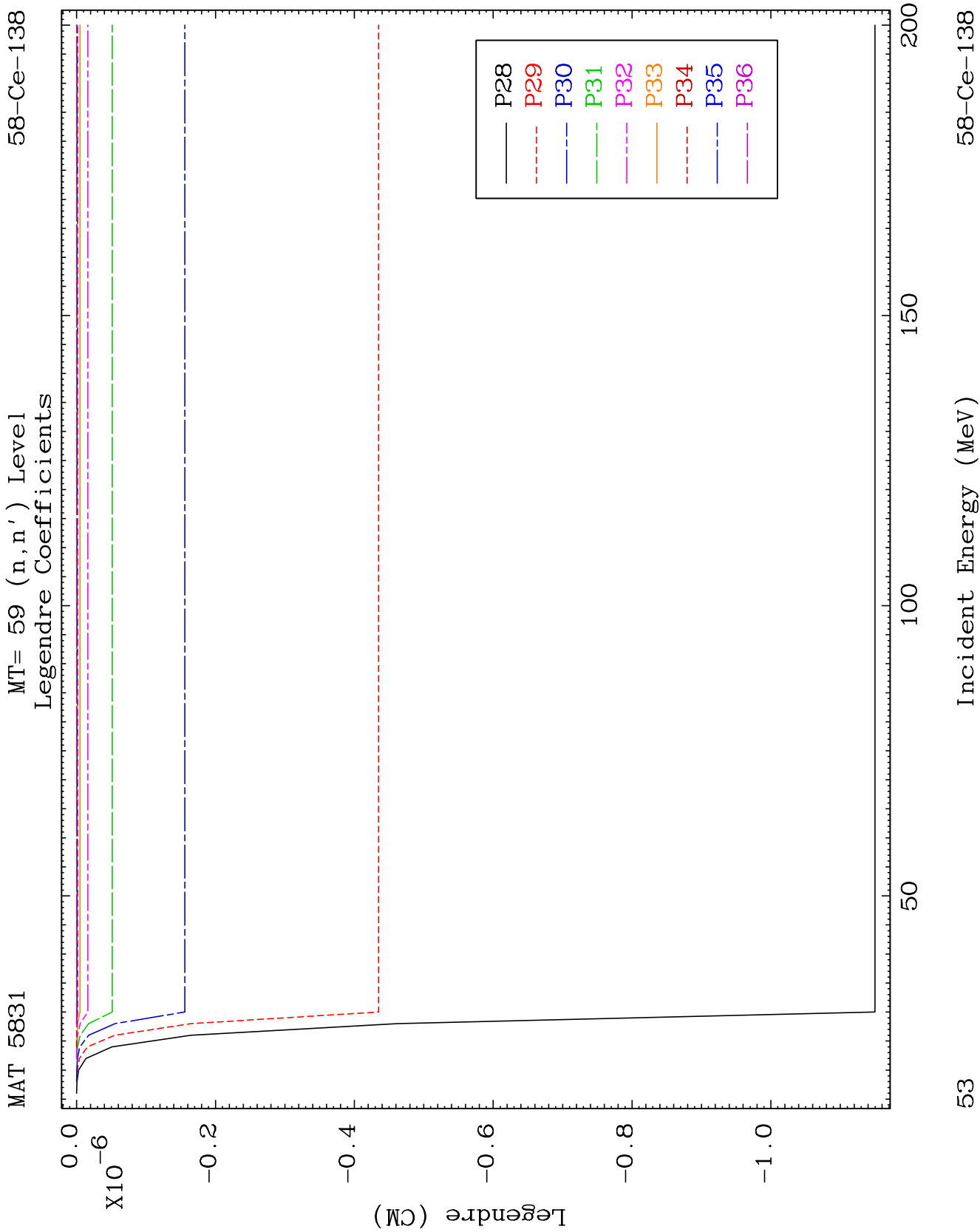
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Legendre Coefficients

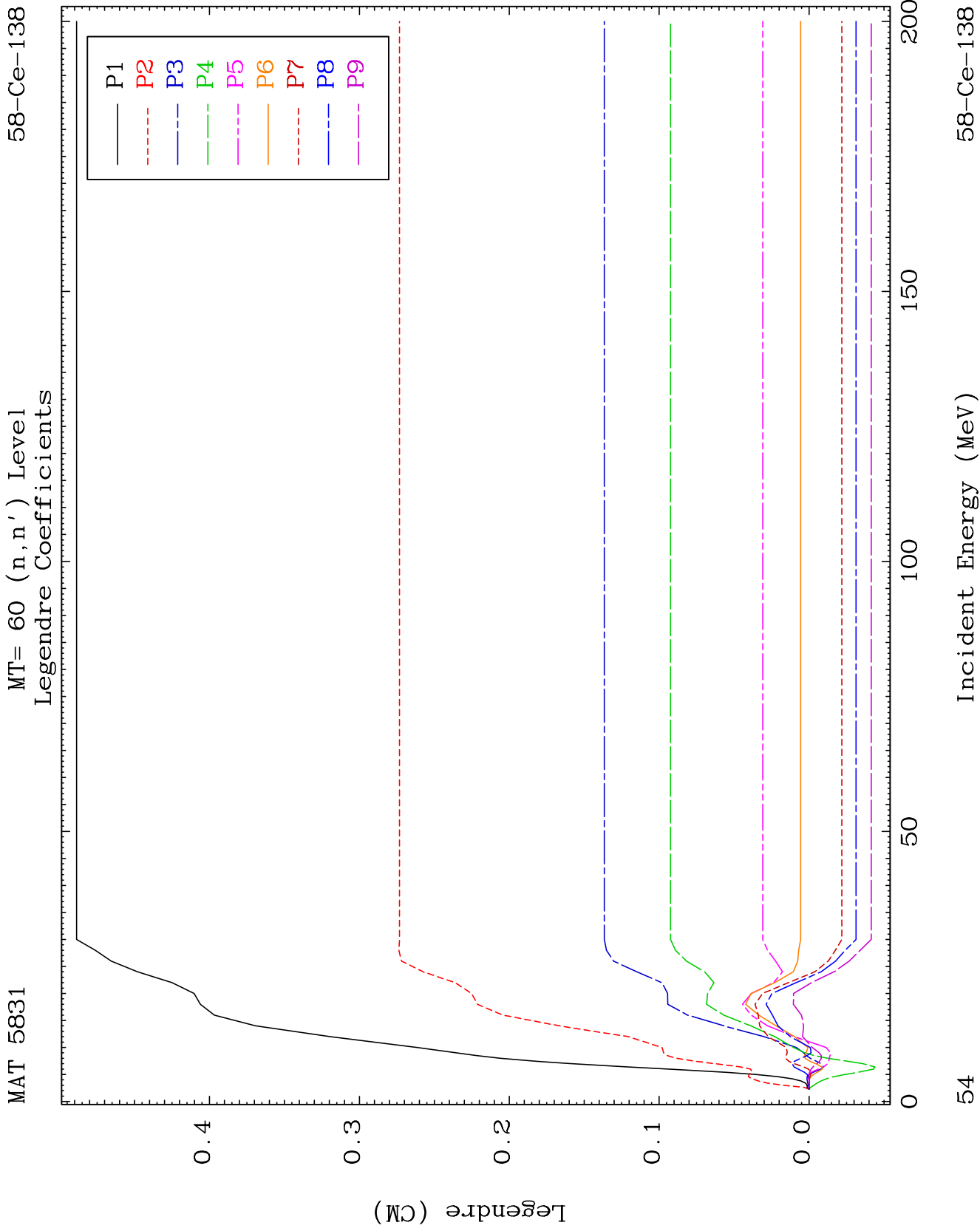
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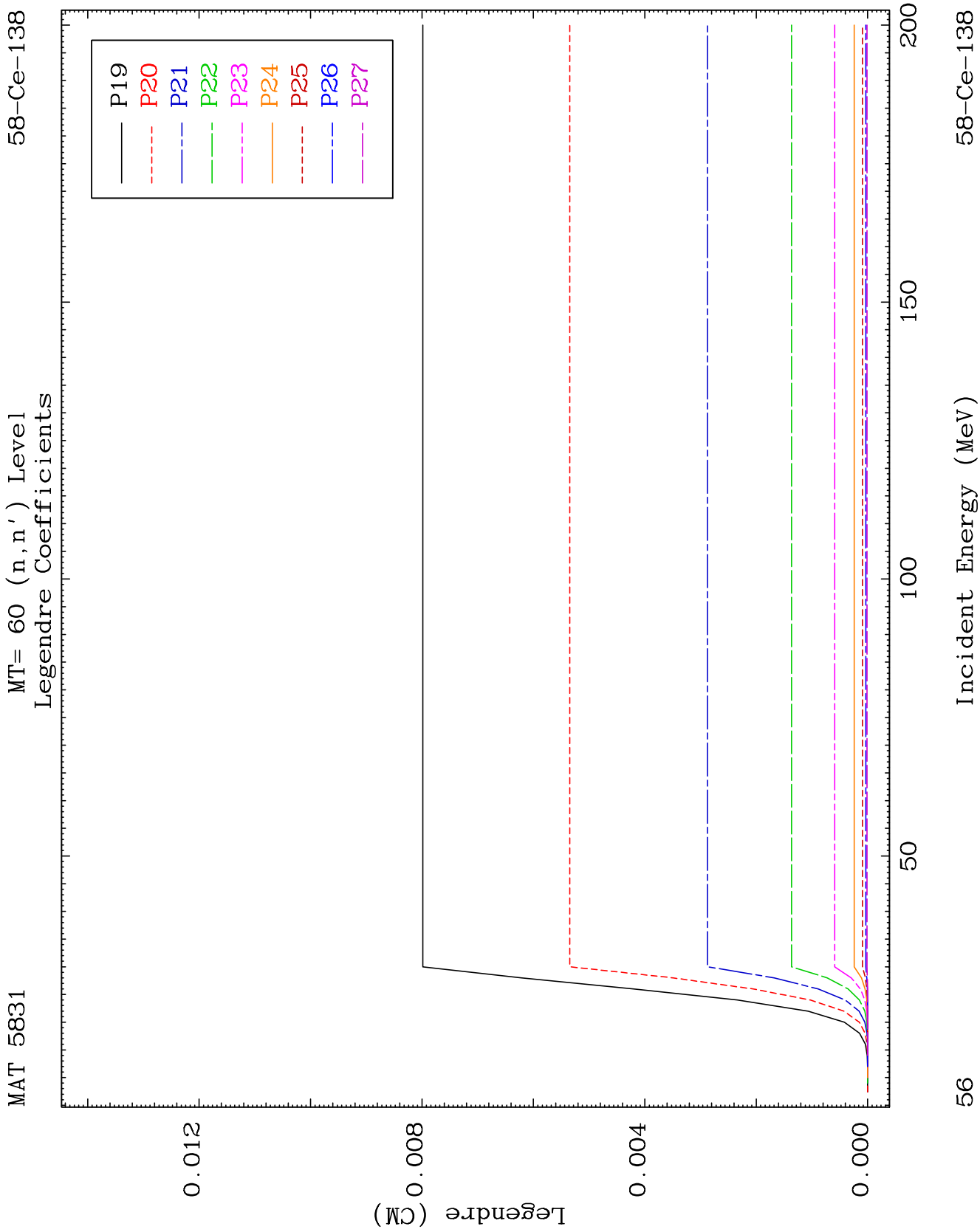


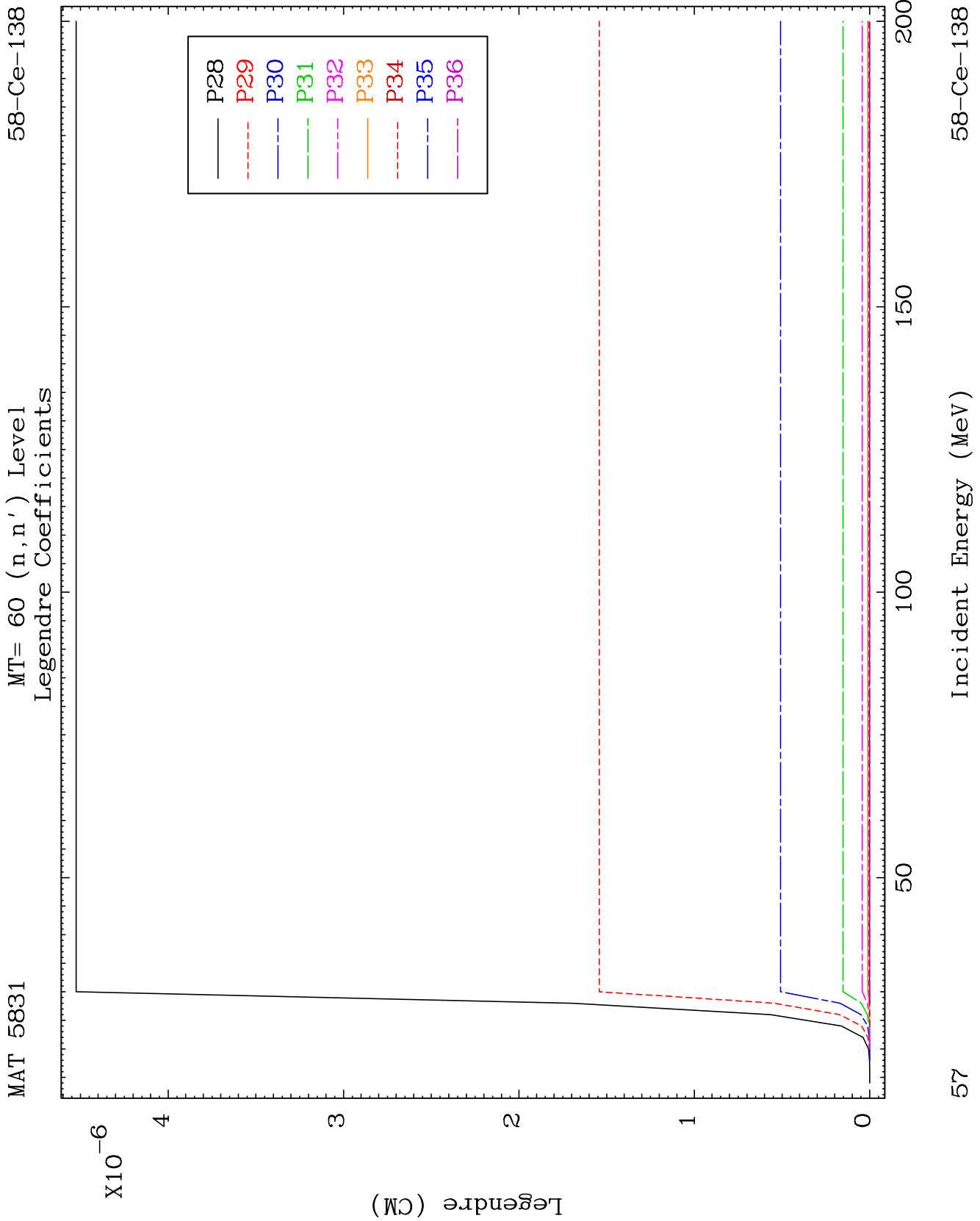


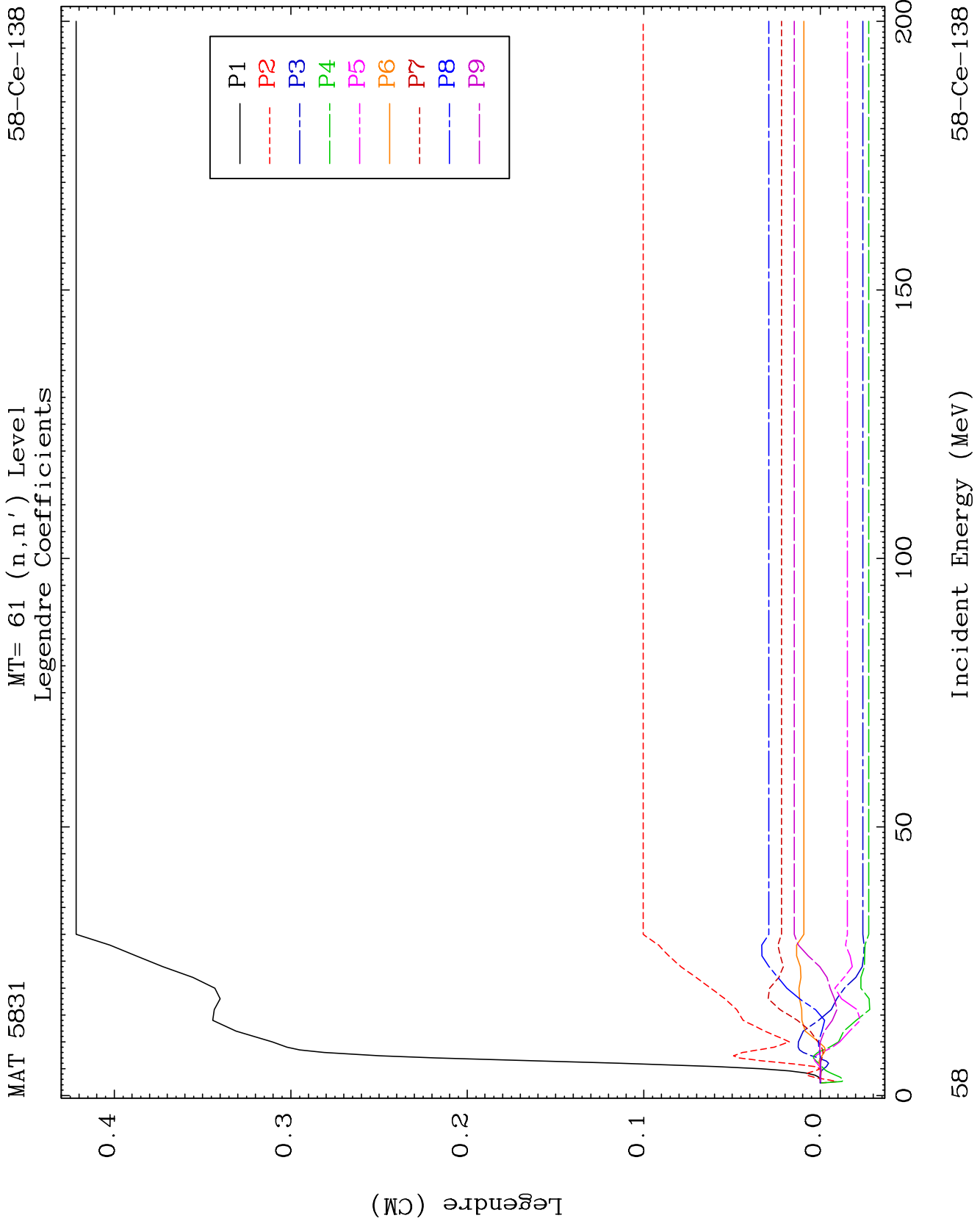








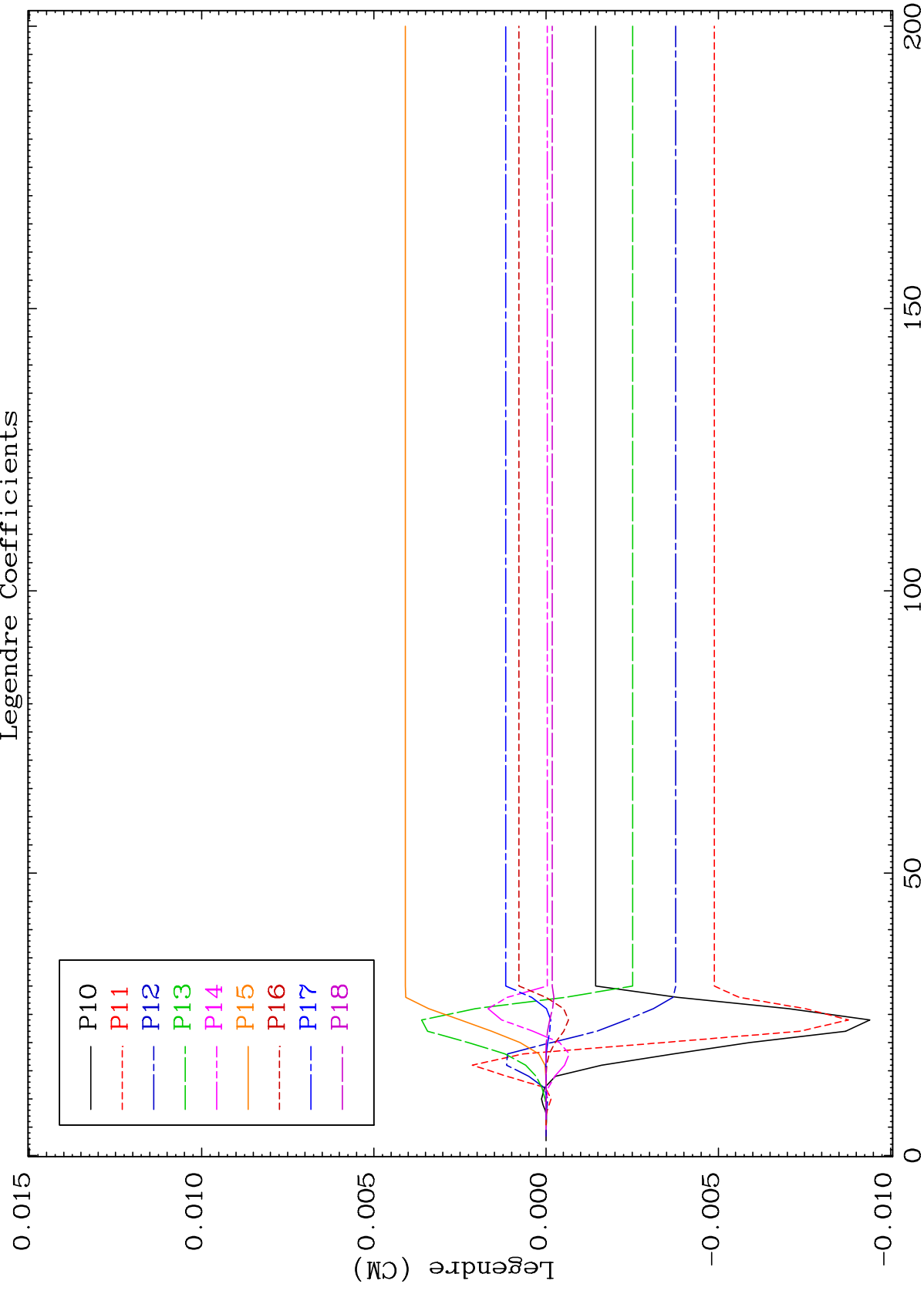




MAT 5831

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

58-Ce-138



65

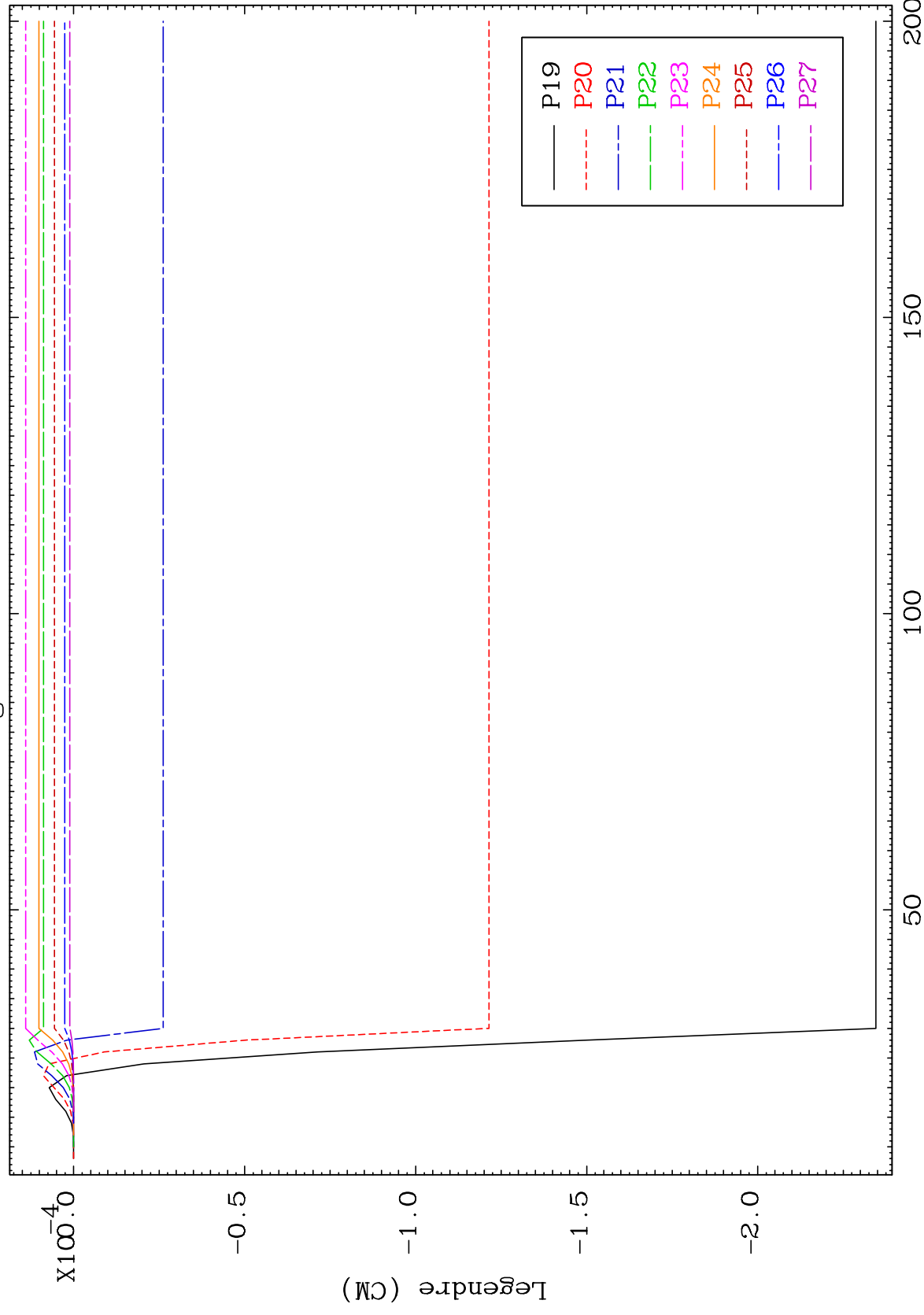
Incident Energy (MeV)

58-Ce-138

MAT 5831

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

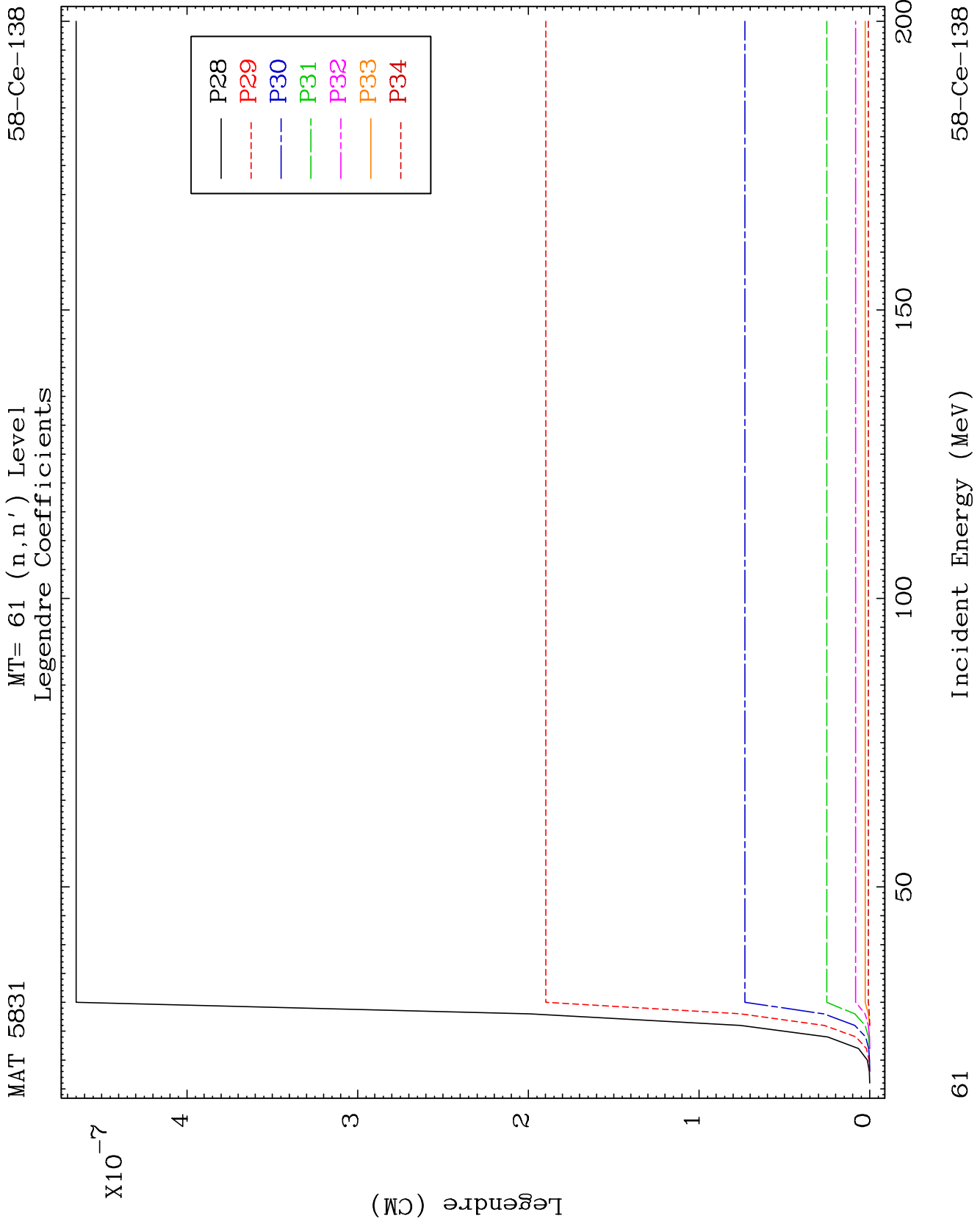
58-Ce-138

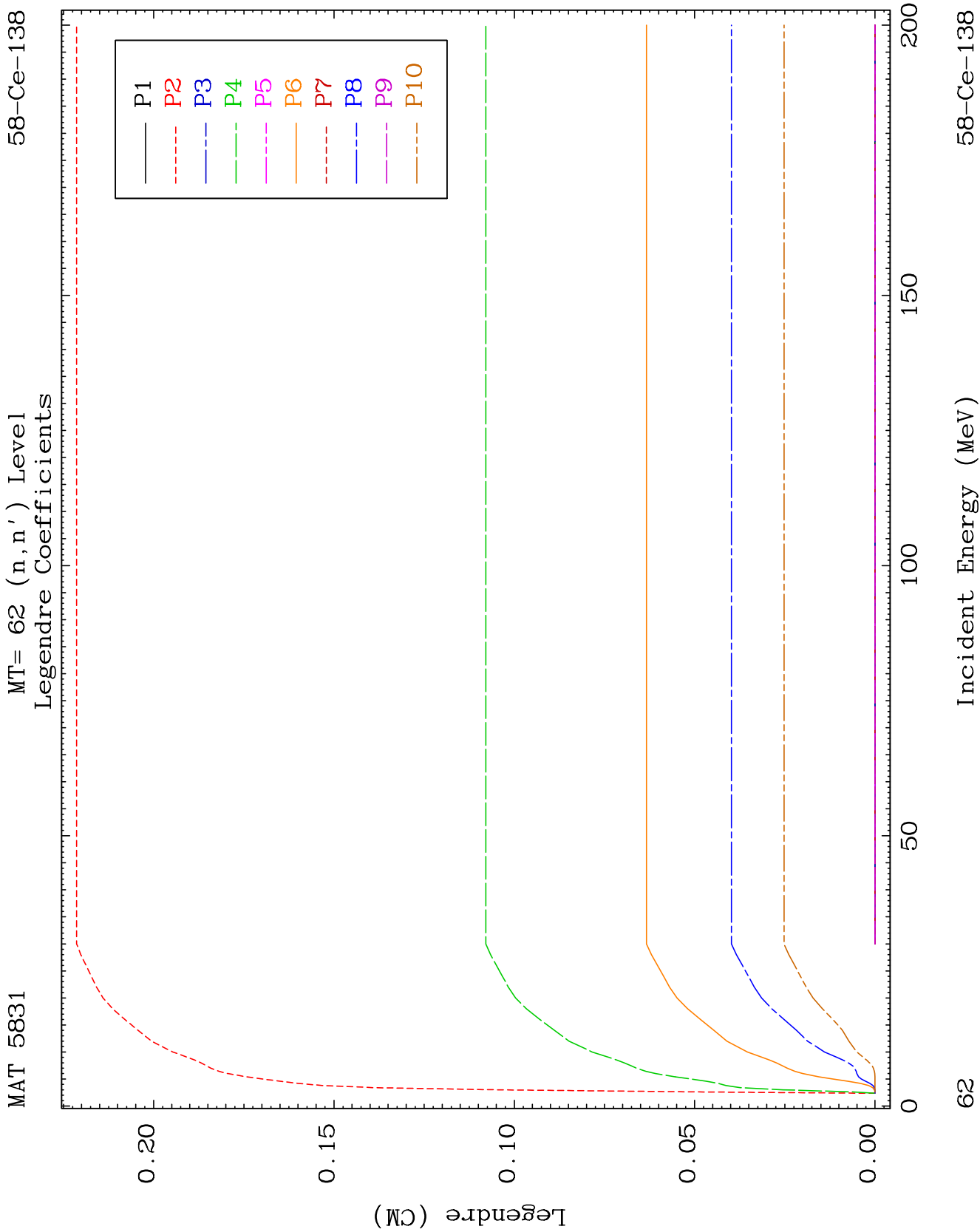


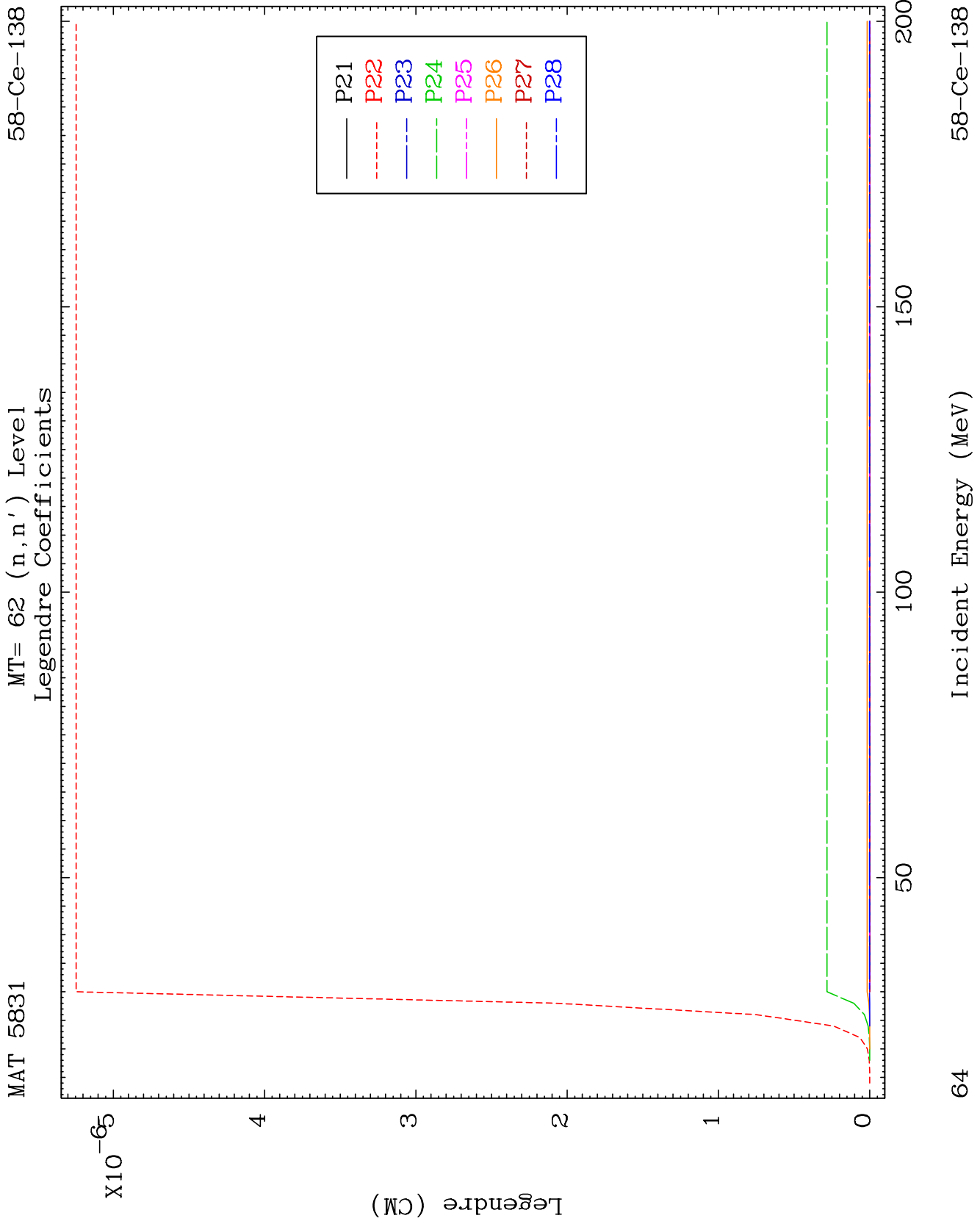
99

Incident Energy (MeV)

58-Ce-138



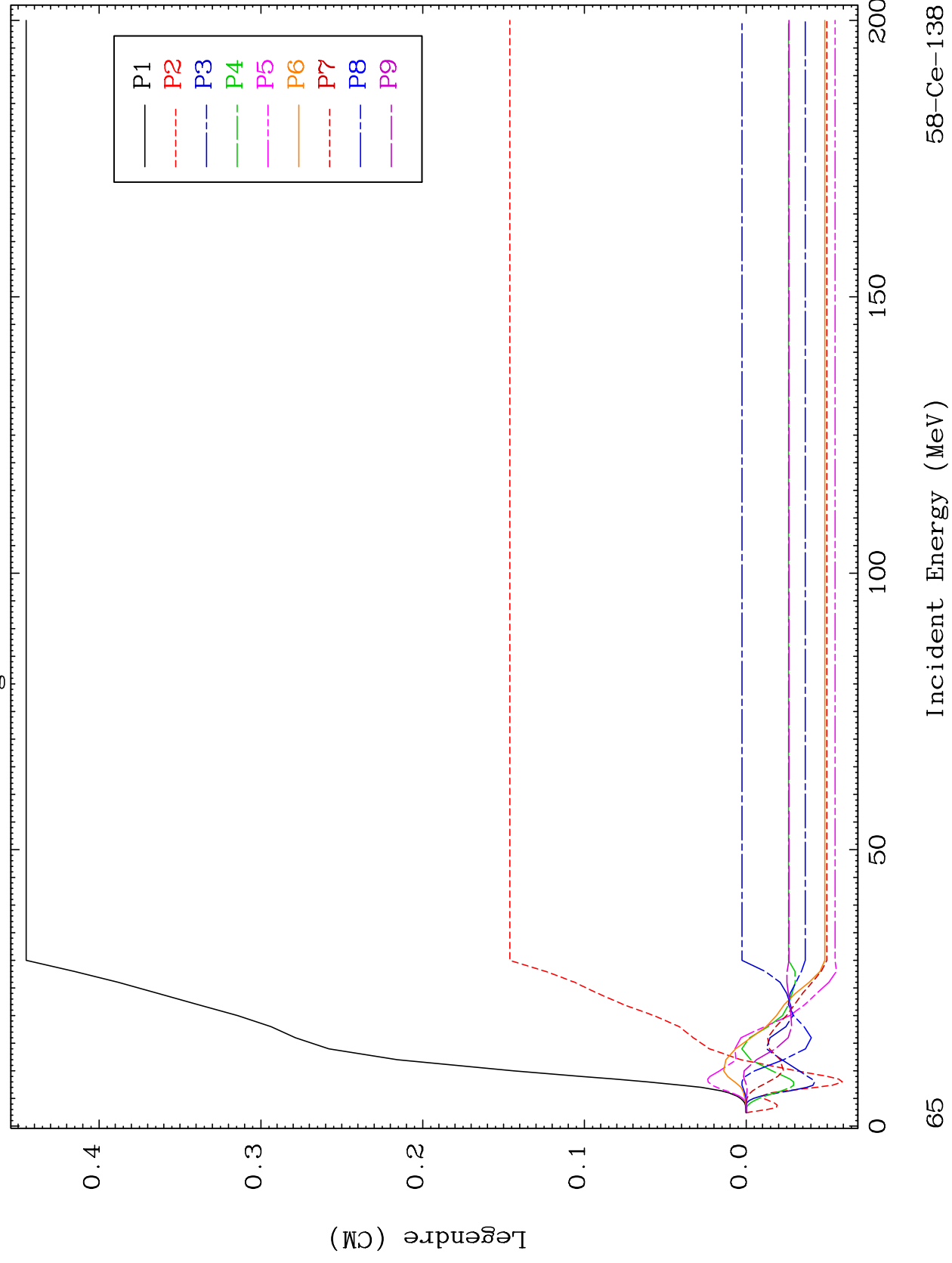


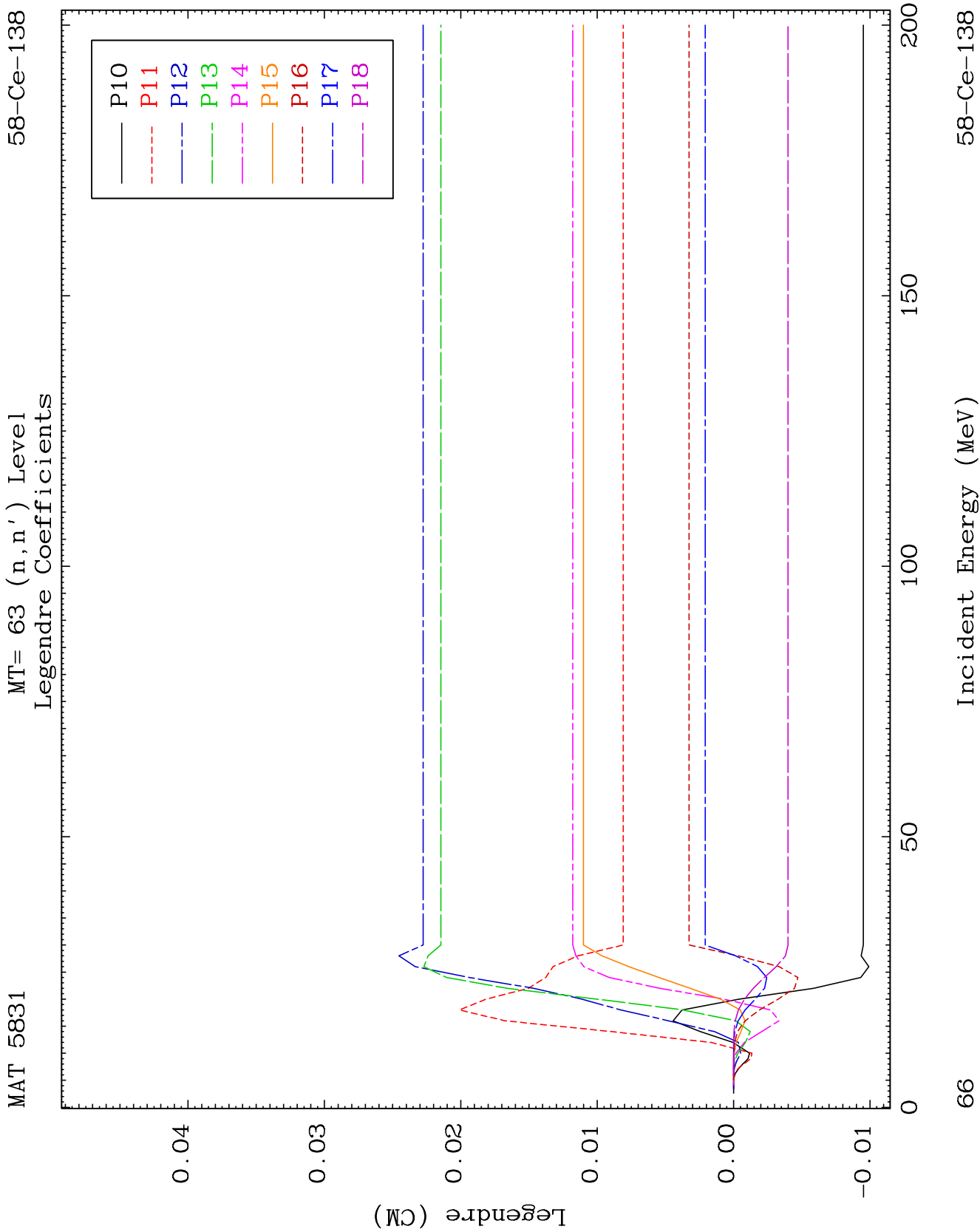


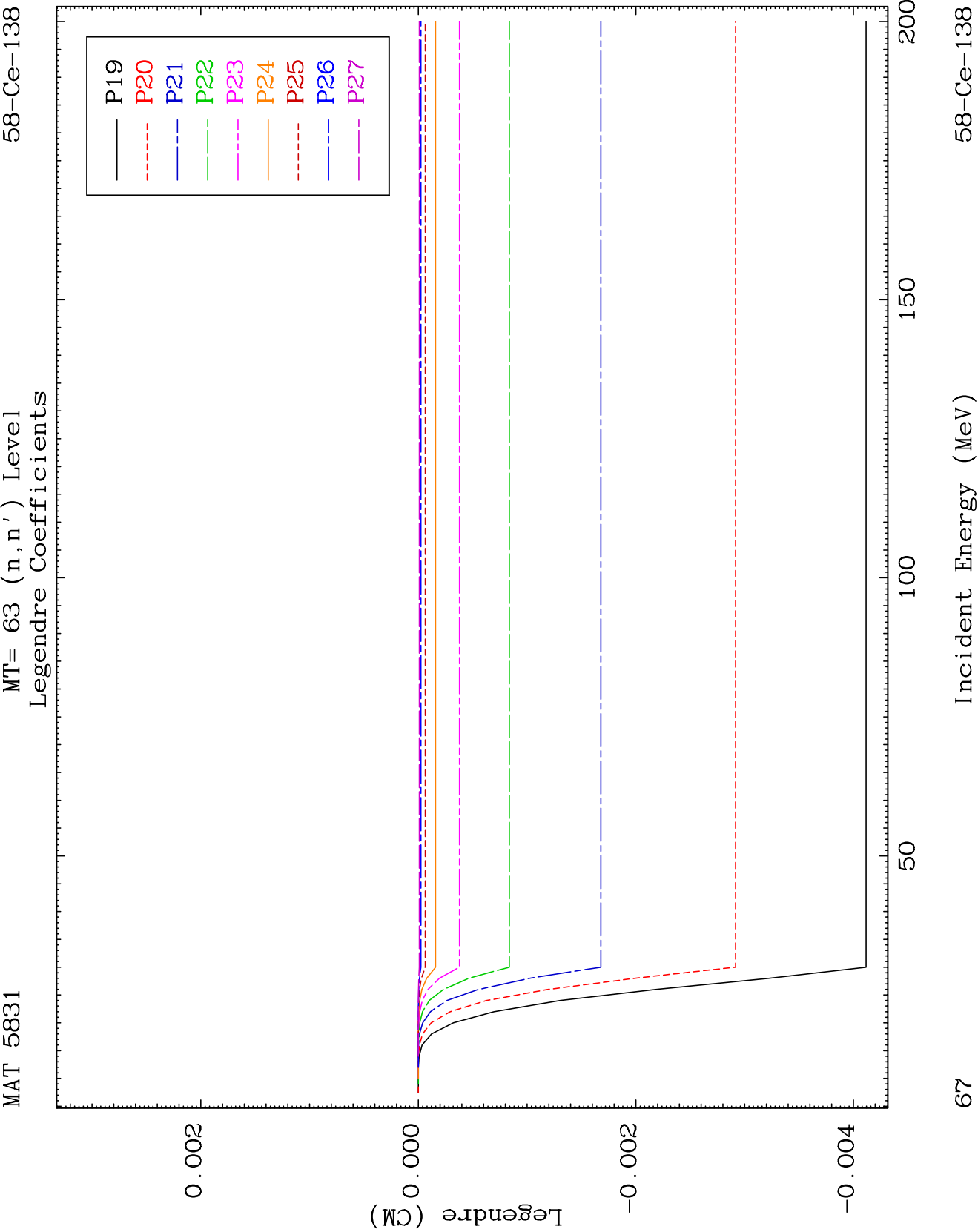
MAT 5831

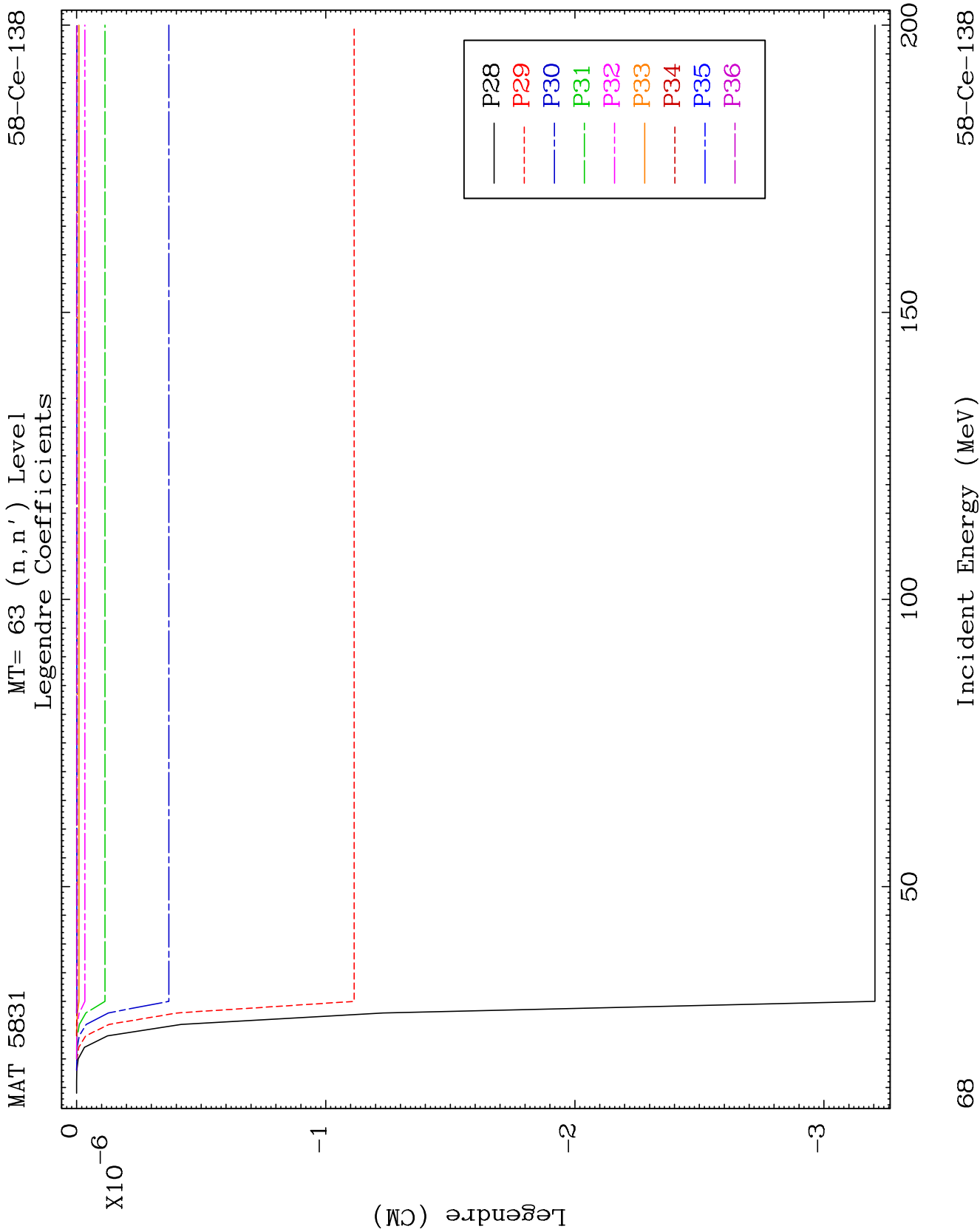
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Legendre Coefficients

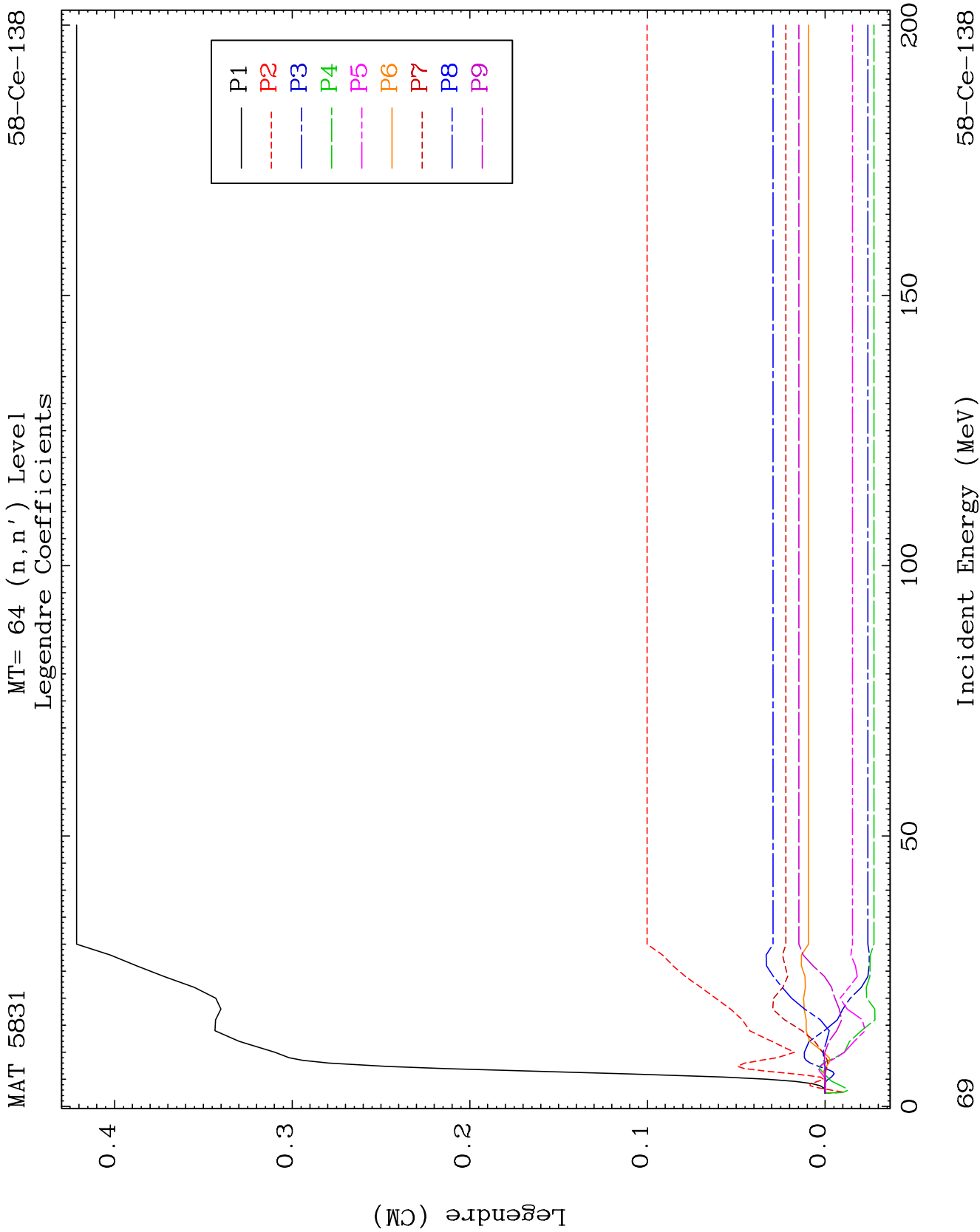
58-Ce-138







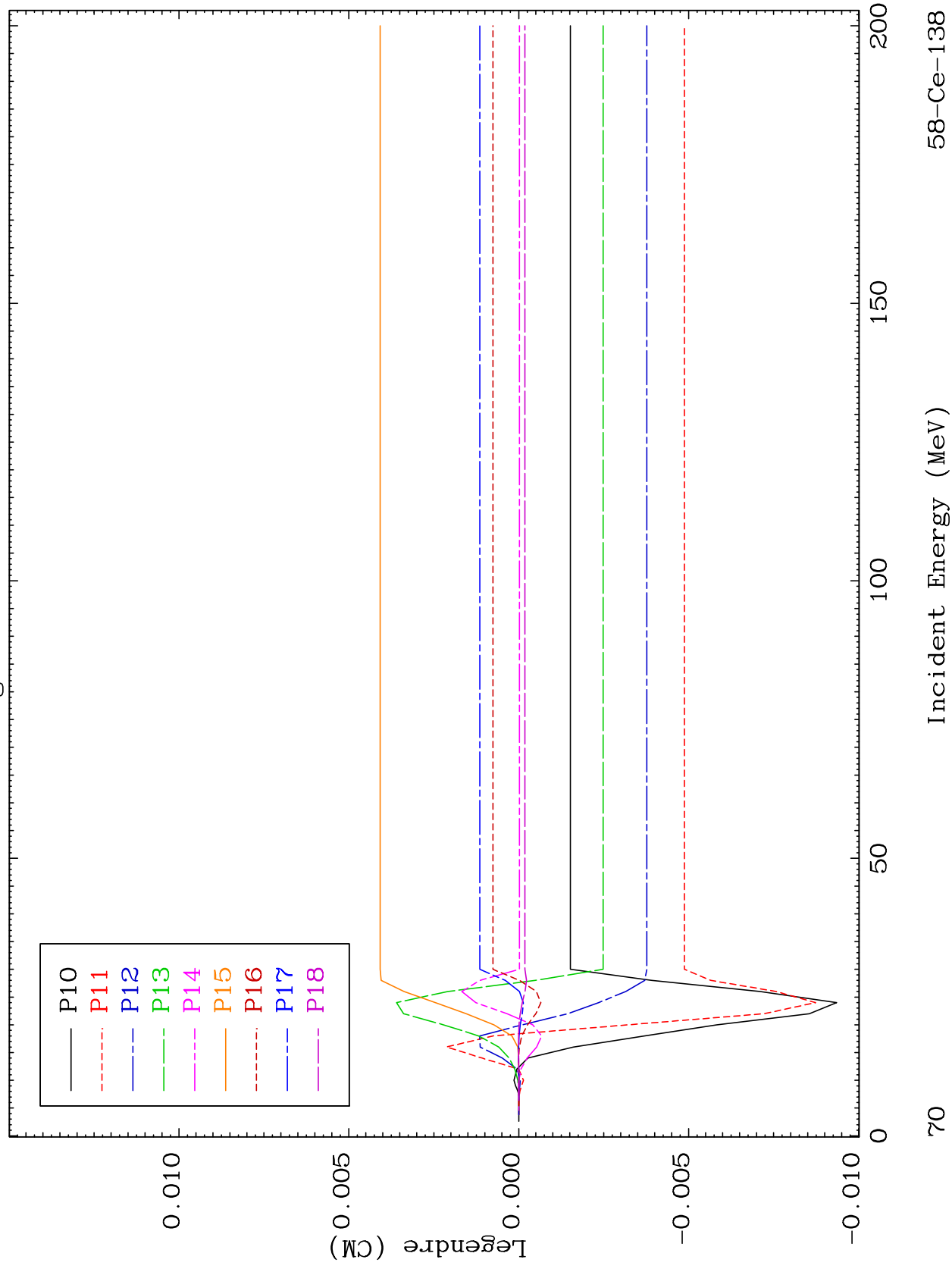


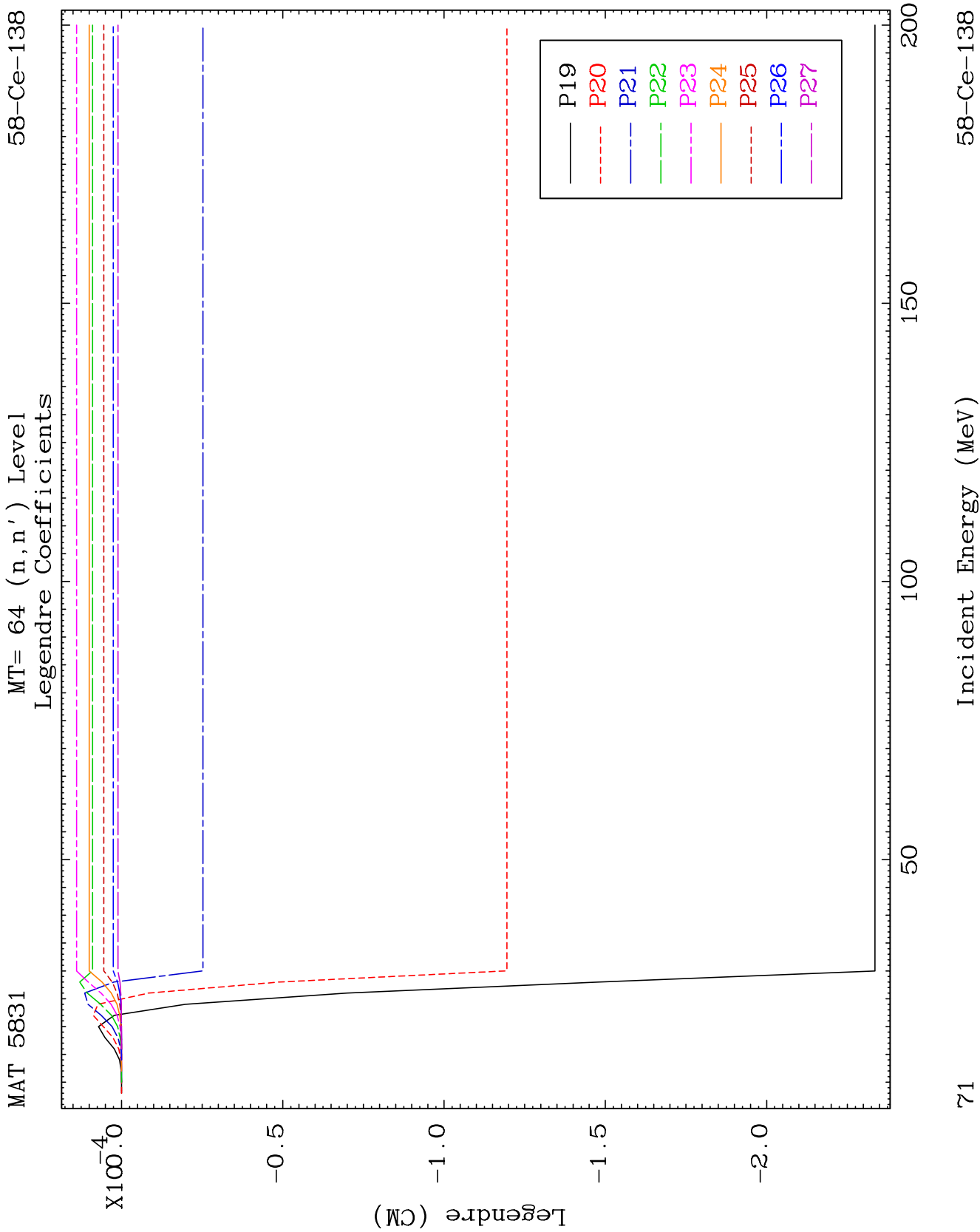


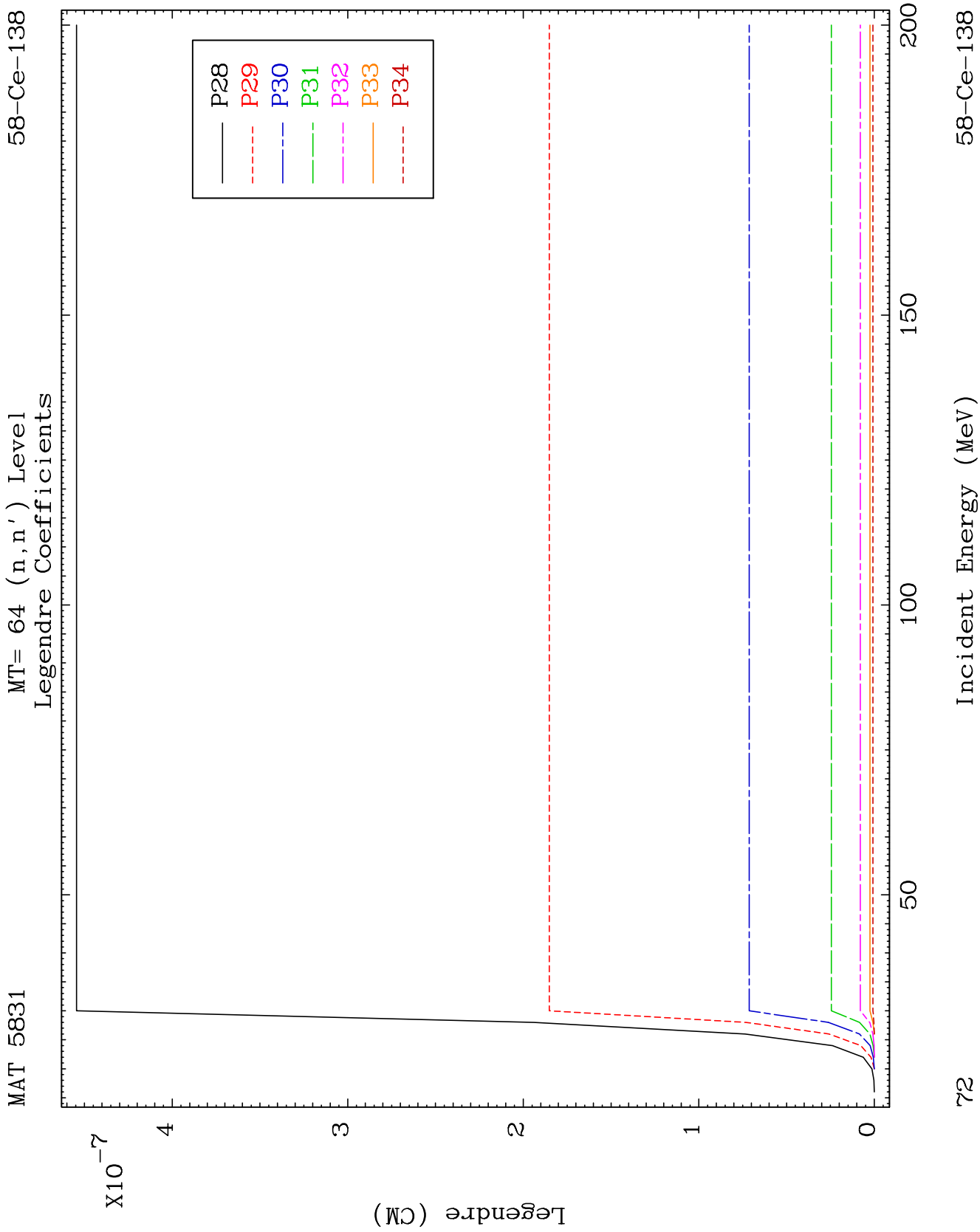
MAT 5831

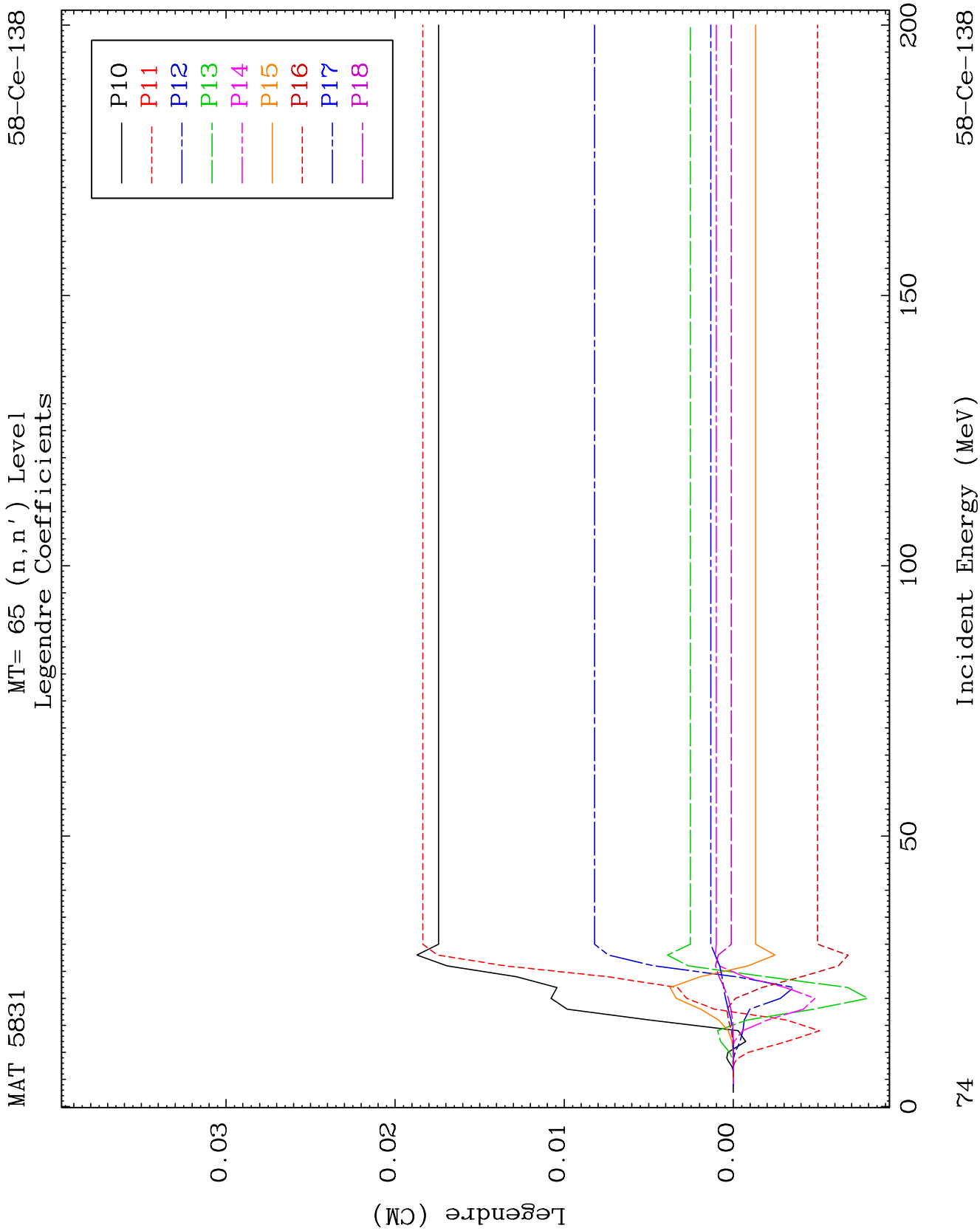
MT= 64 (n, n') Level
Legendre Coefficients

58-Ce-138





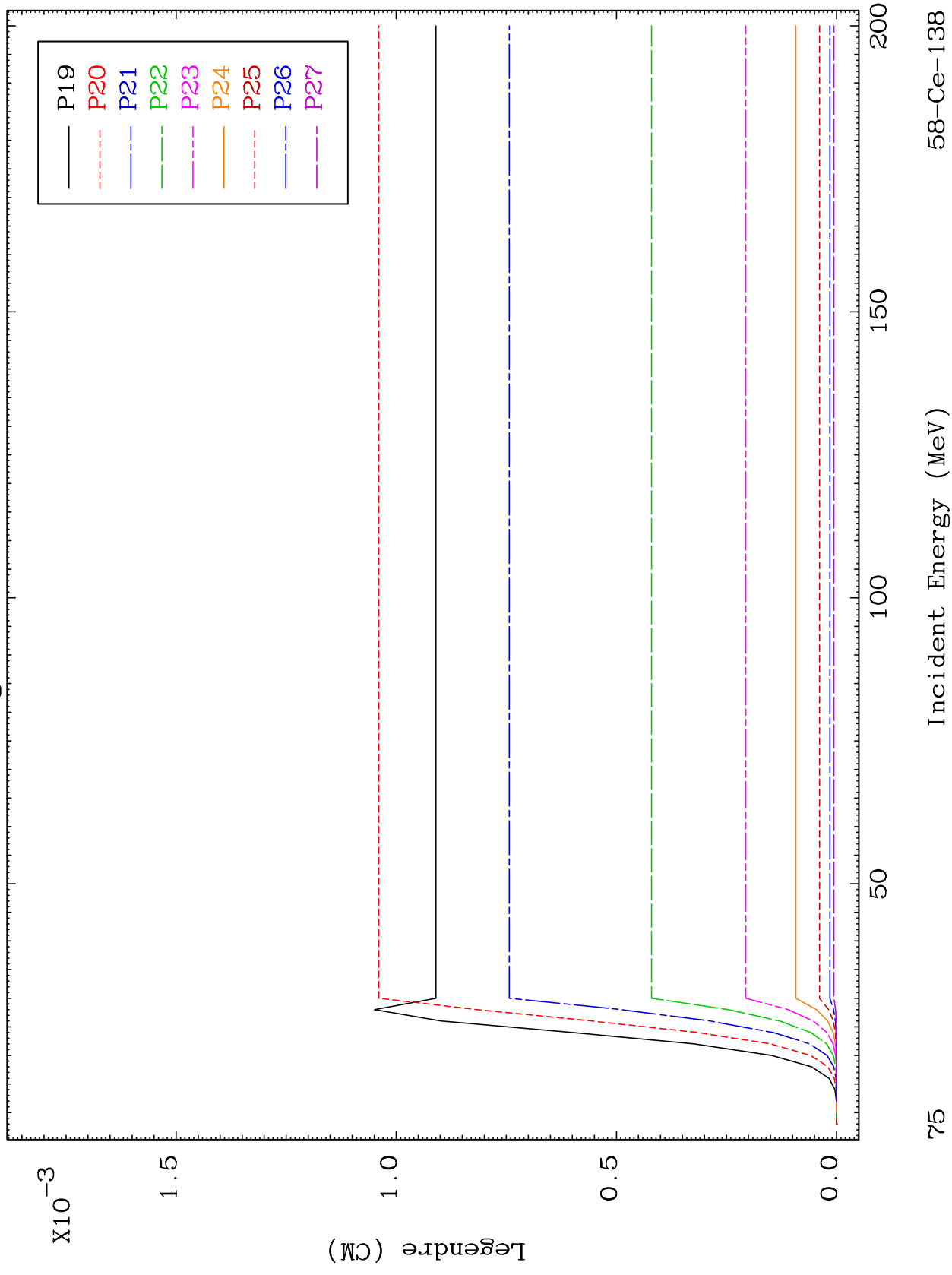


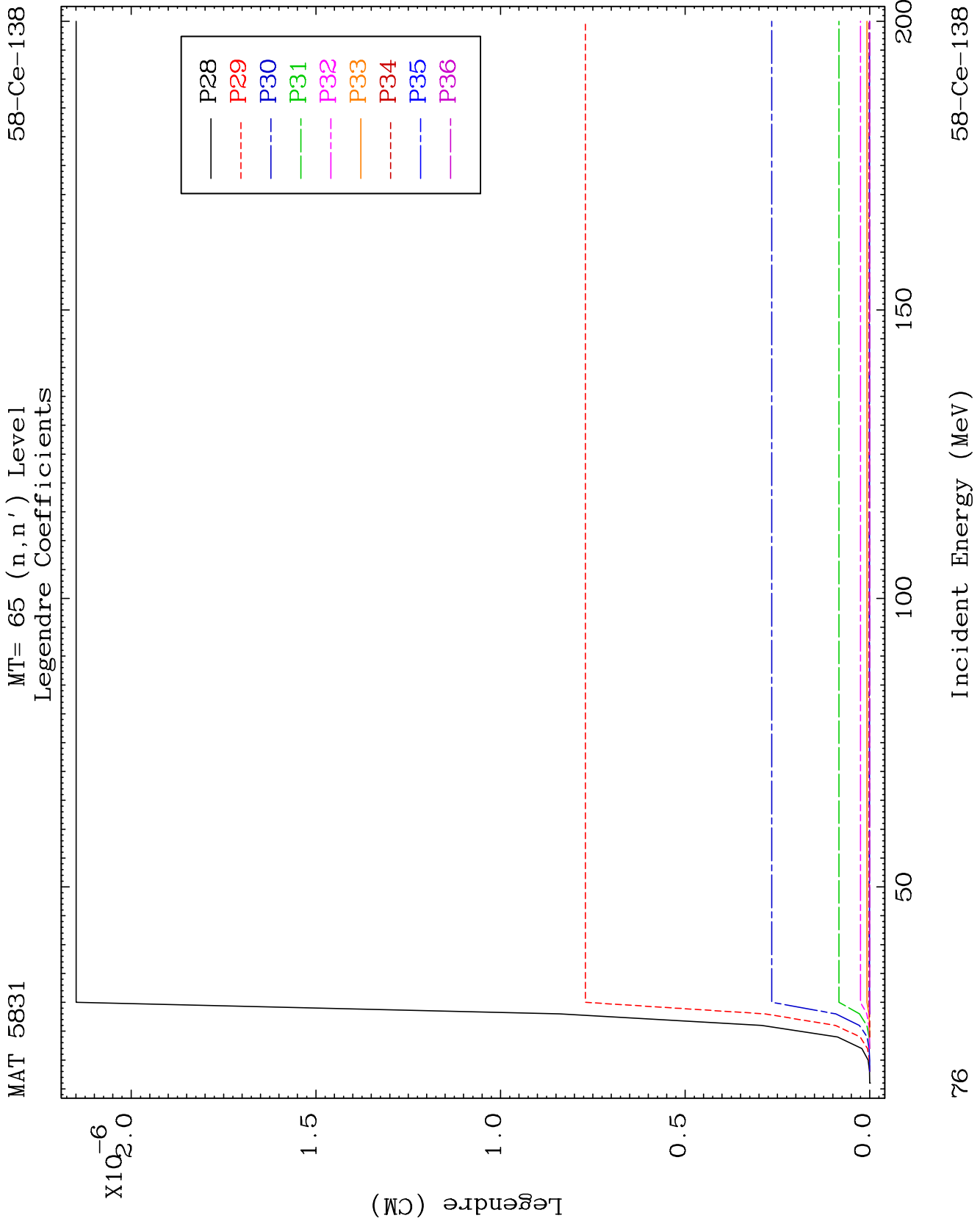


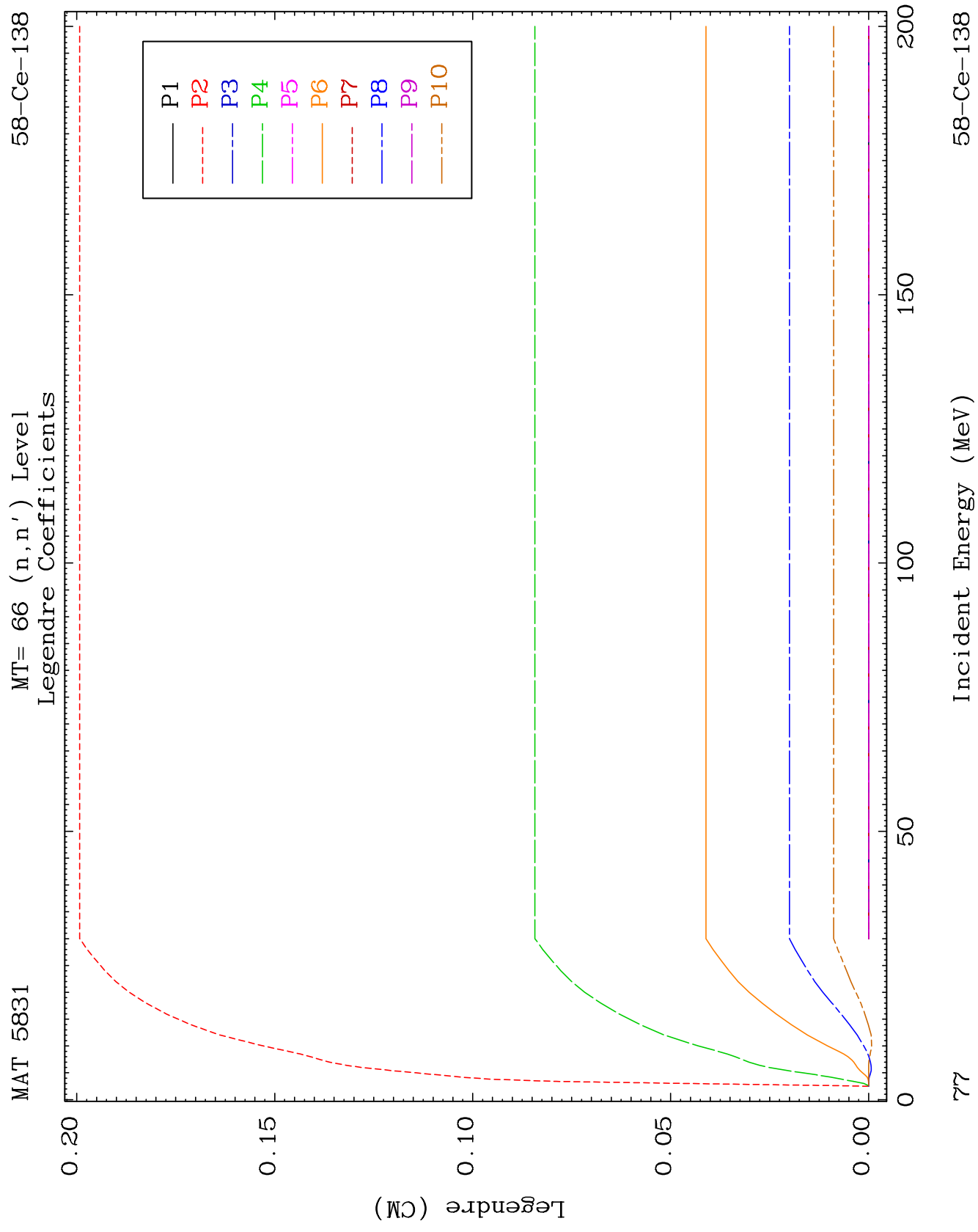
MAT 5831

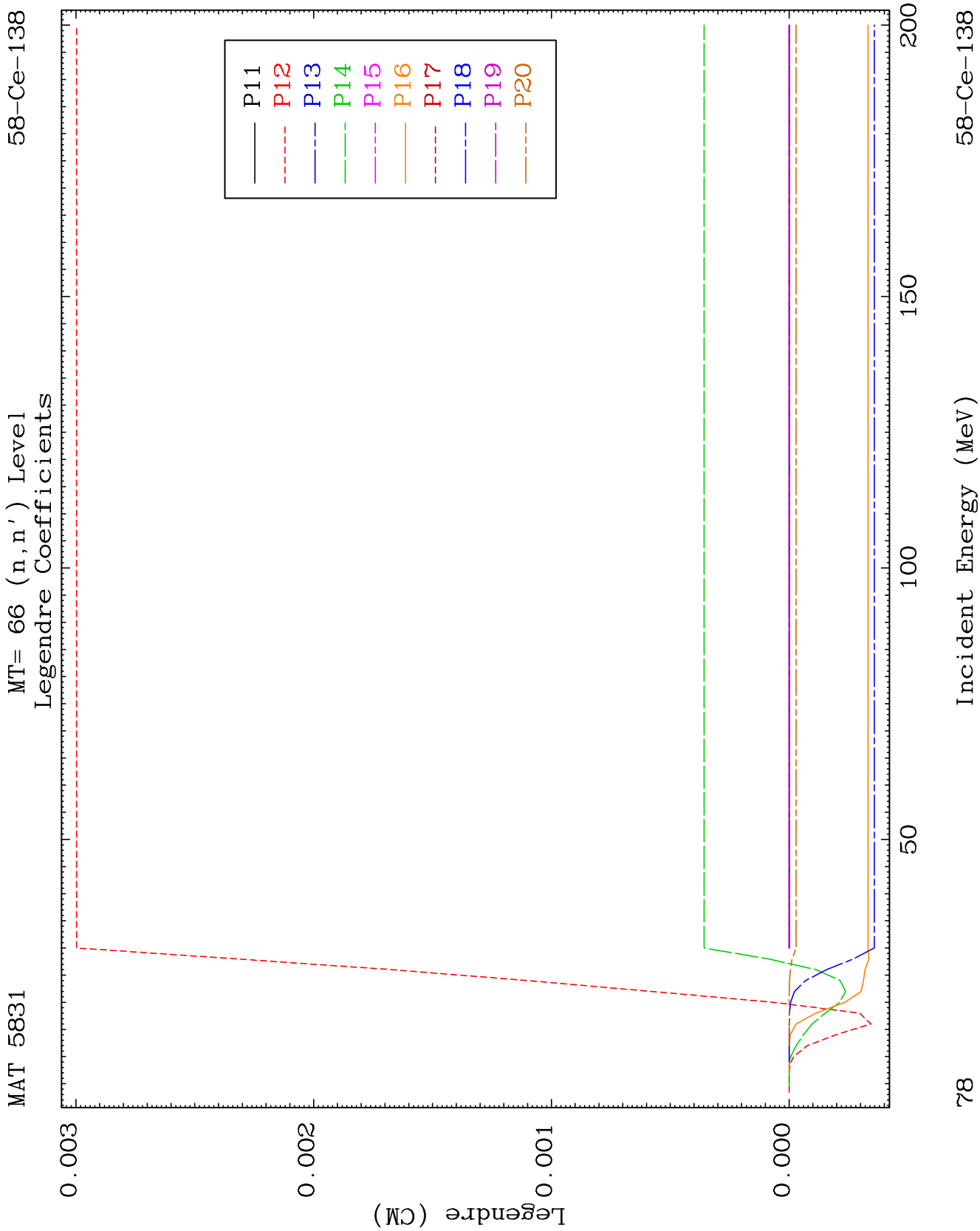
MT= 65 (n, n') Level
Legendre Coefficients

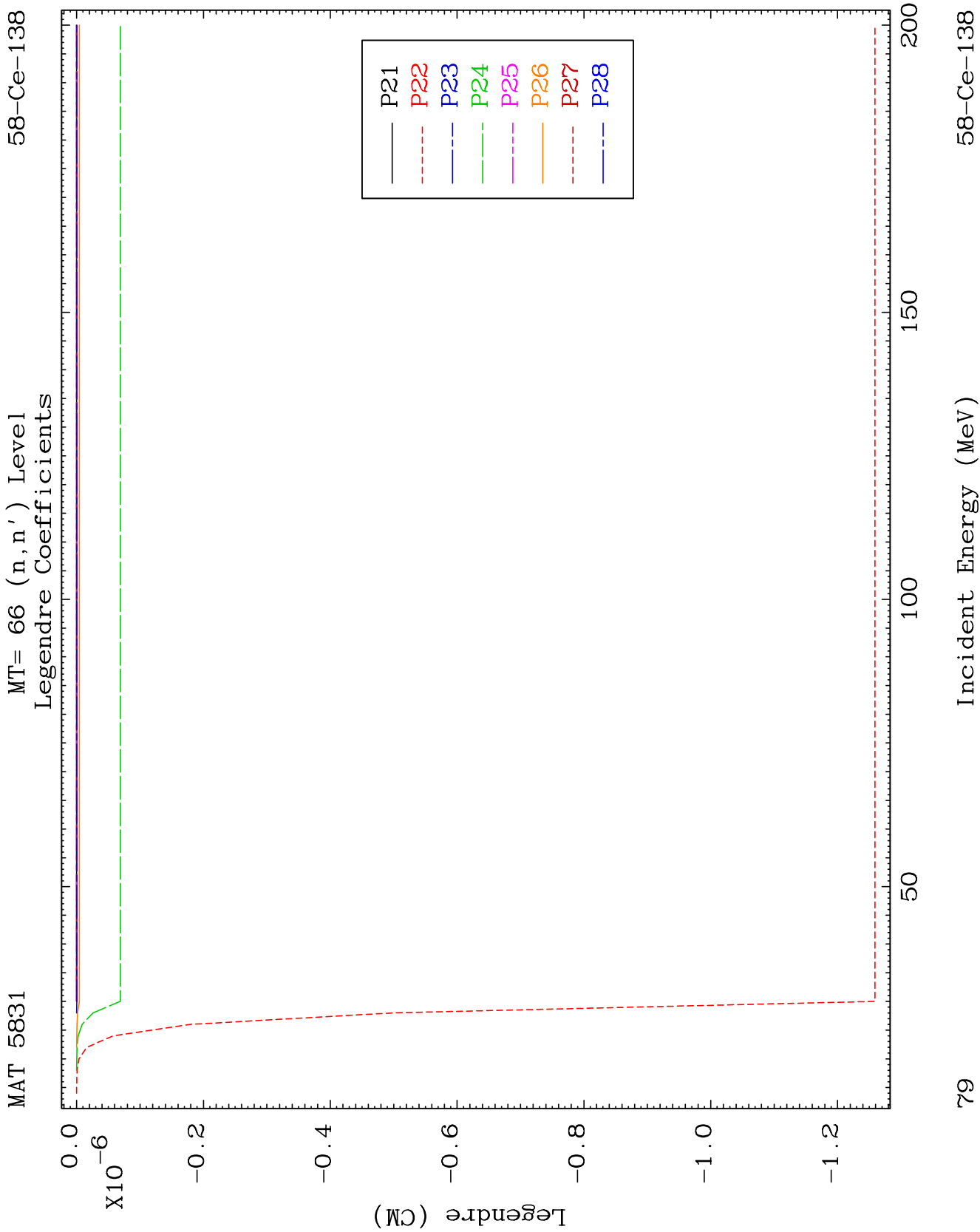
58-Ce-138

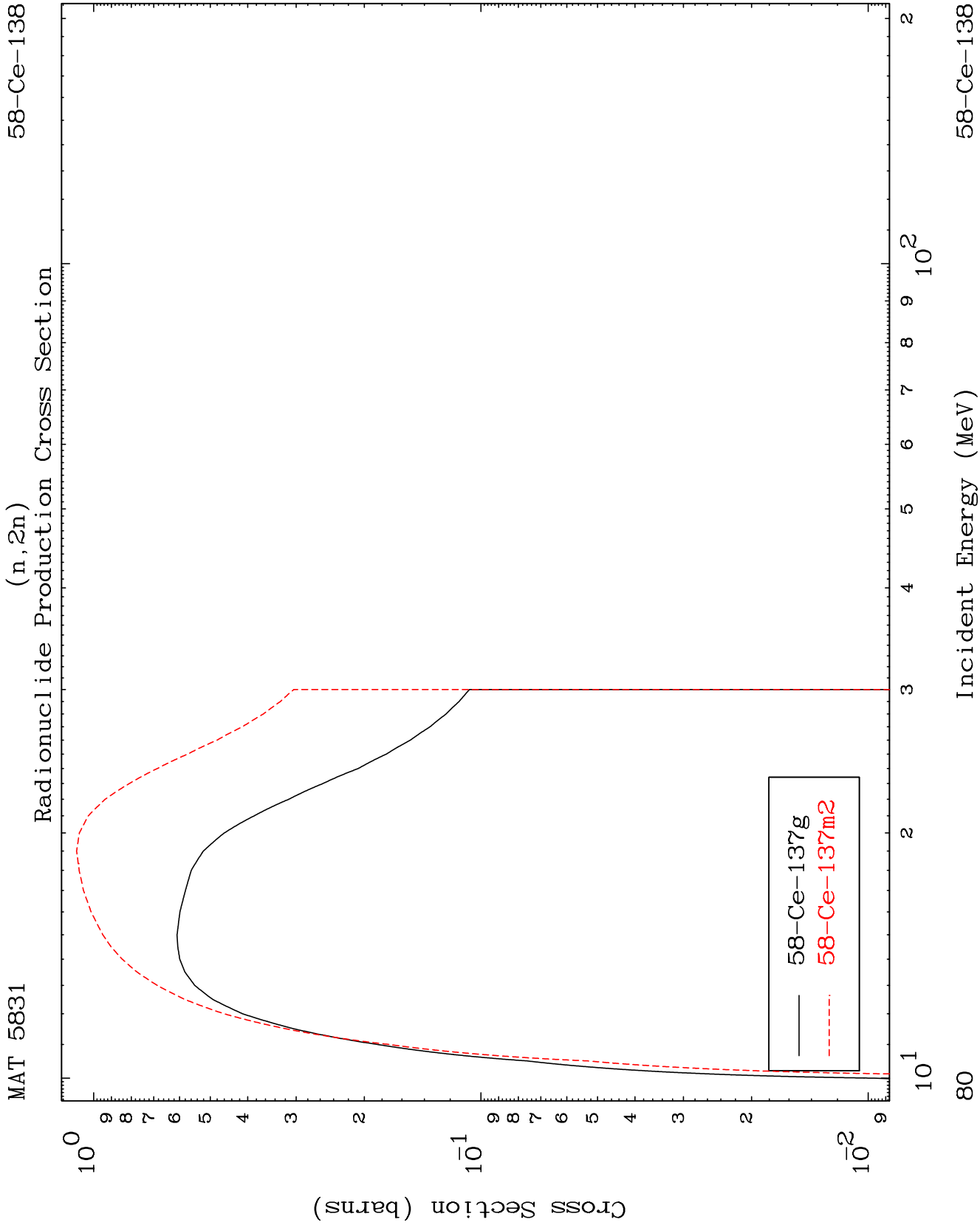




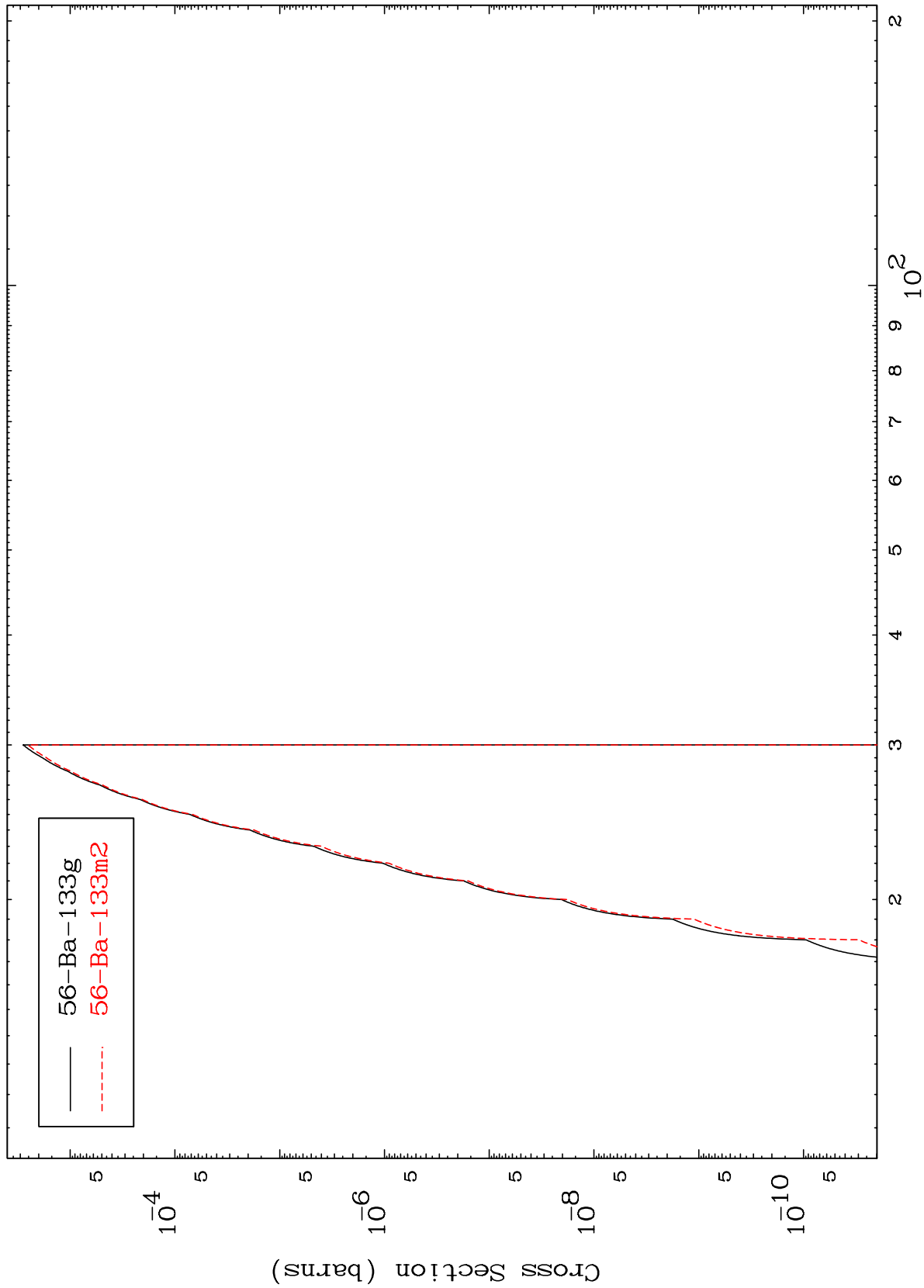








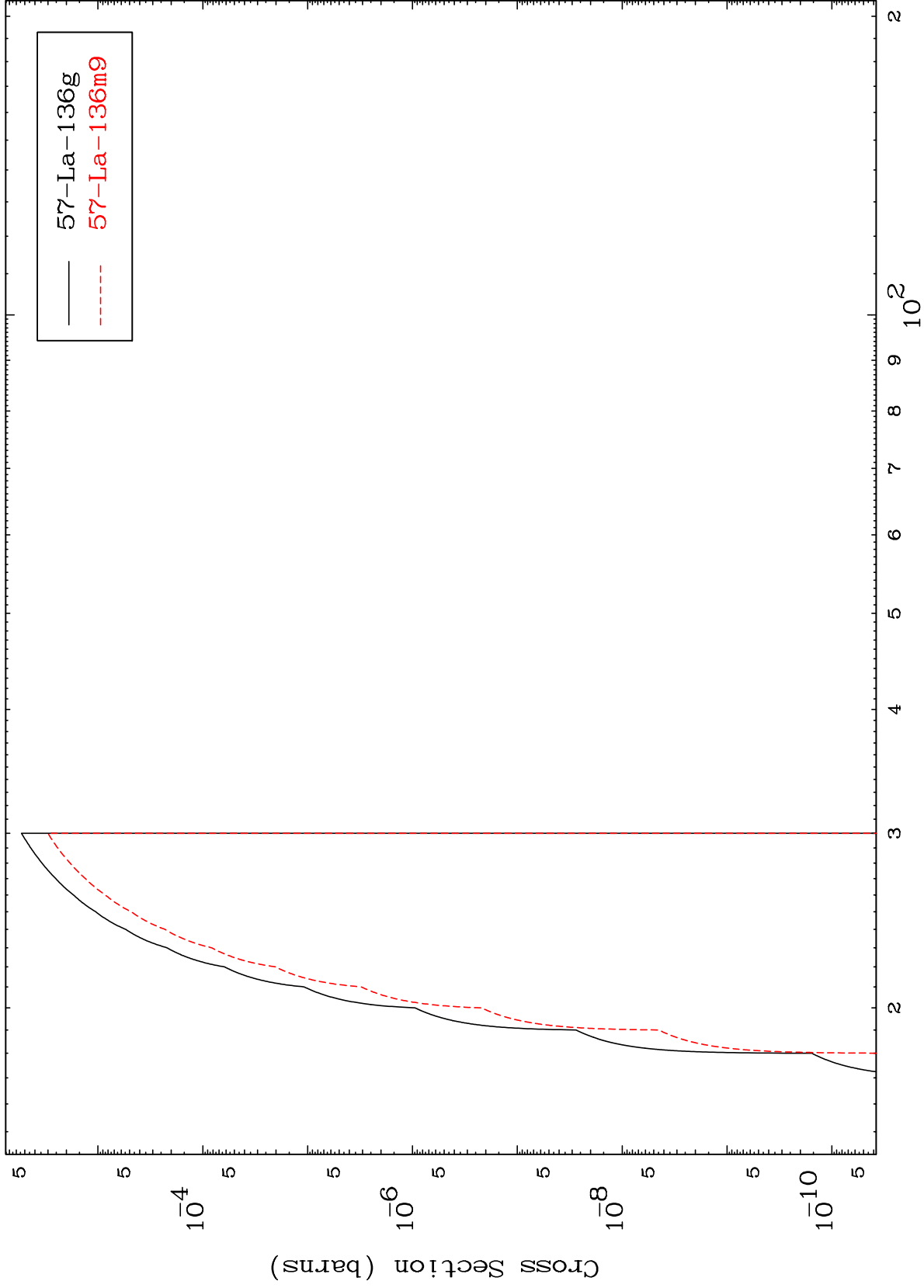
Radionuclide Production Cross Section
(n,2n) α



MAT 5831

58-Ce-138

(n,n') d
Radionuclide Production Cross Section



82

Incident Energy (MeV)

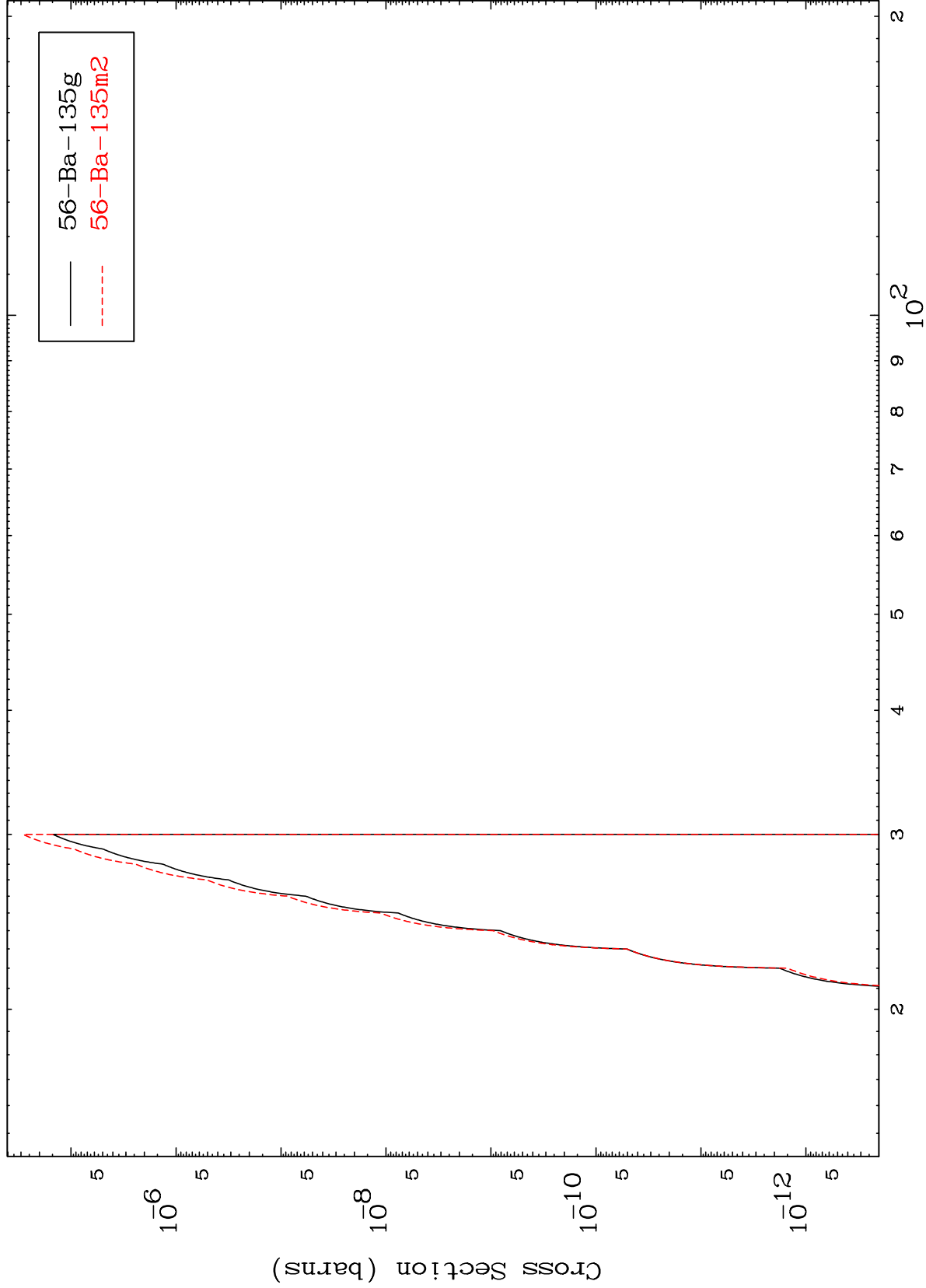
58-Ce-138

MAT 5831

(n,n') He-3

58-Ce-138

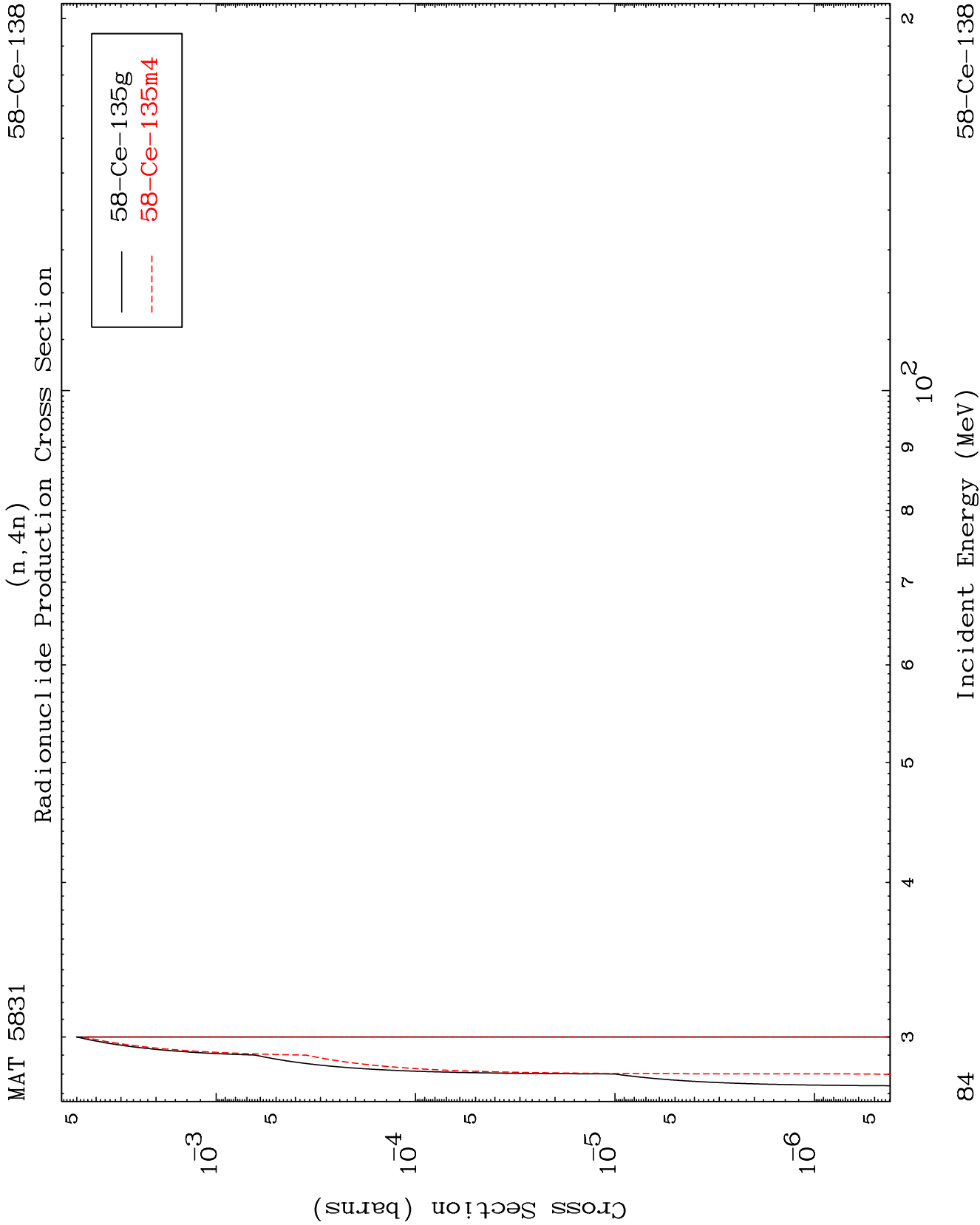
Radionuclide Production Cross Section

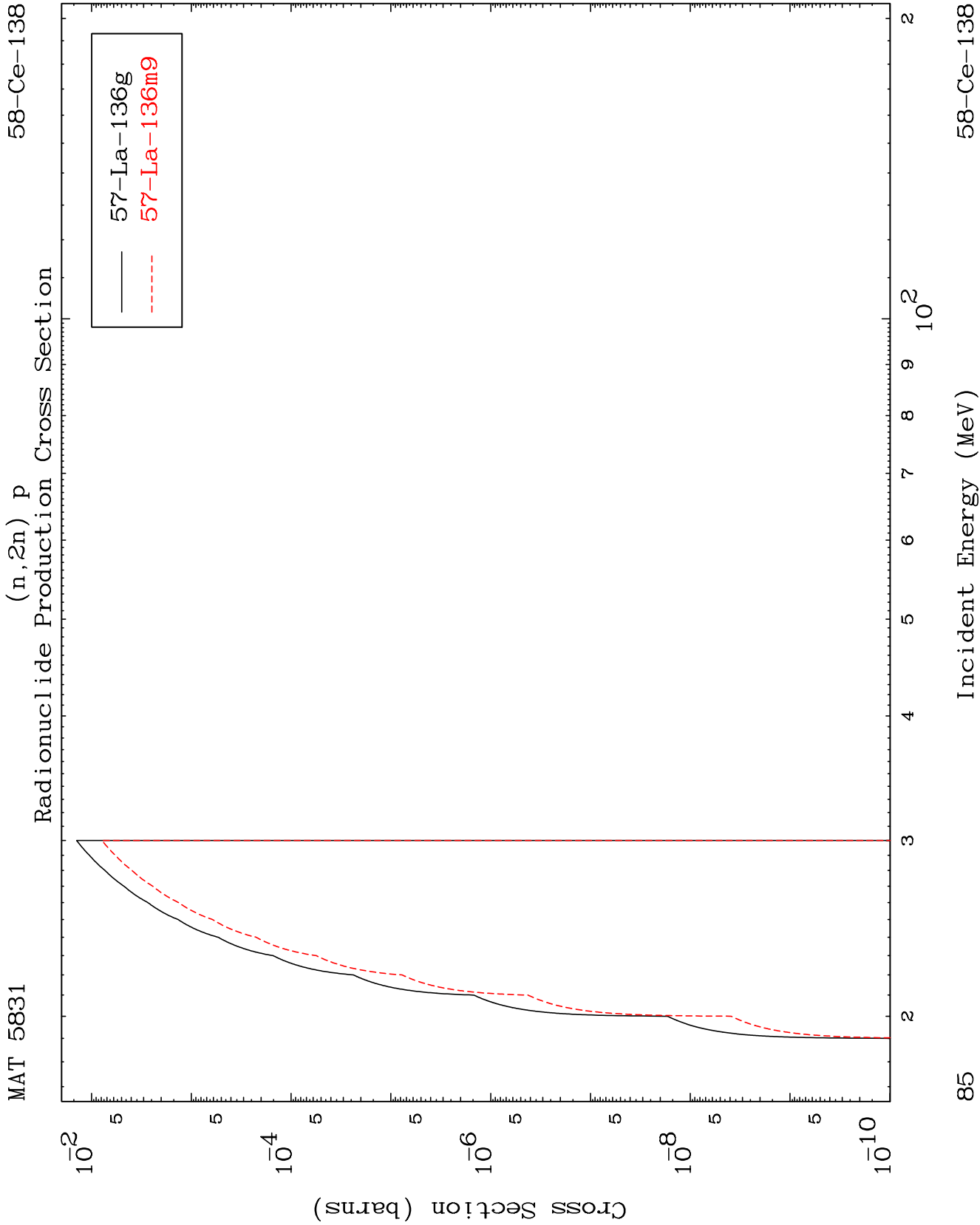


83

Incident Energy (MeV)

58-Ce-138

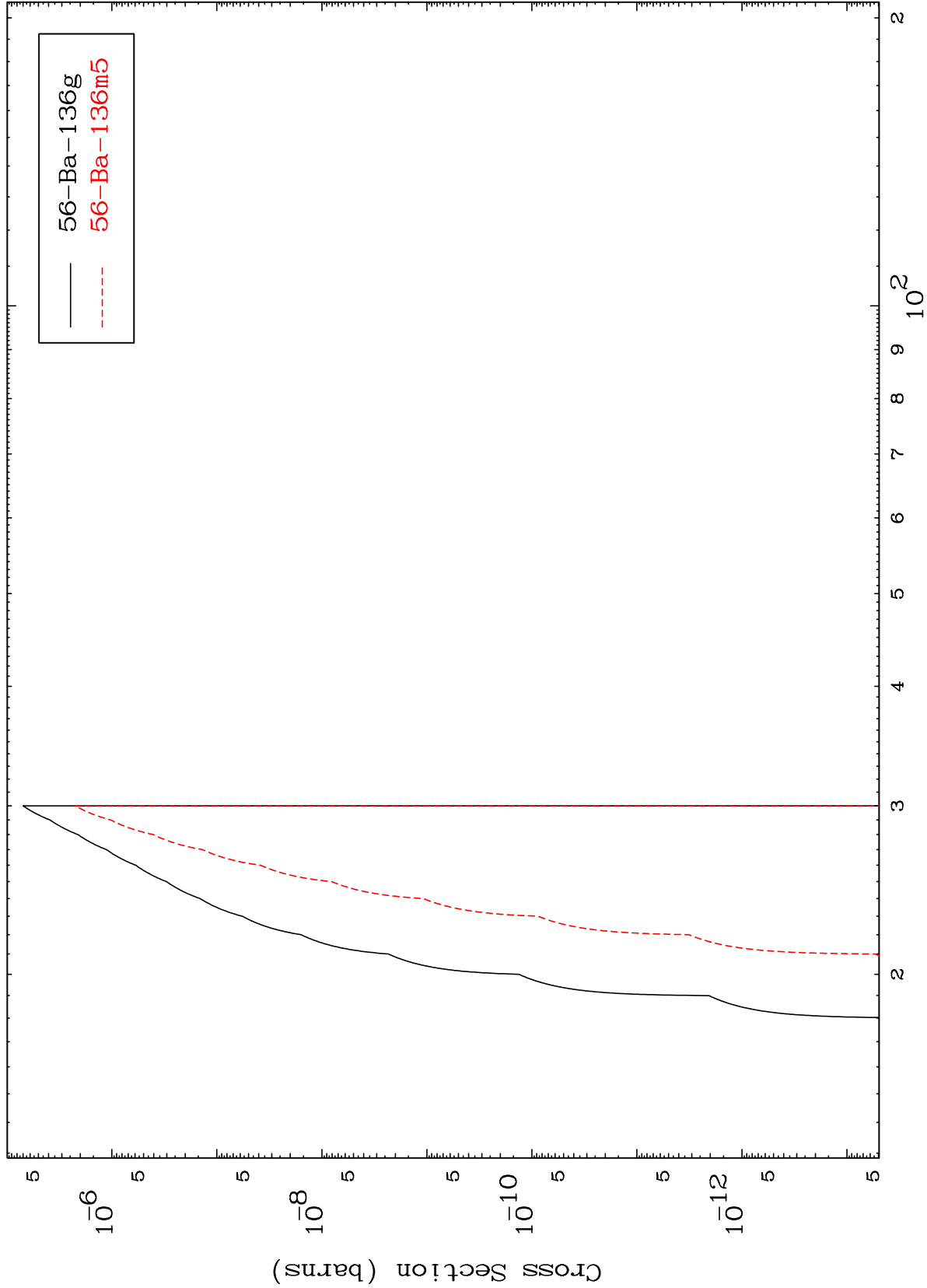




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58-Ce-138

(n,2n) p
Radionuclide Production Cross Section



86

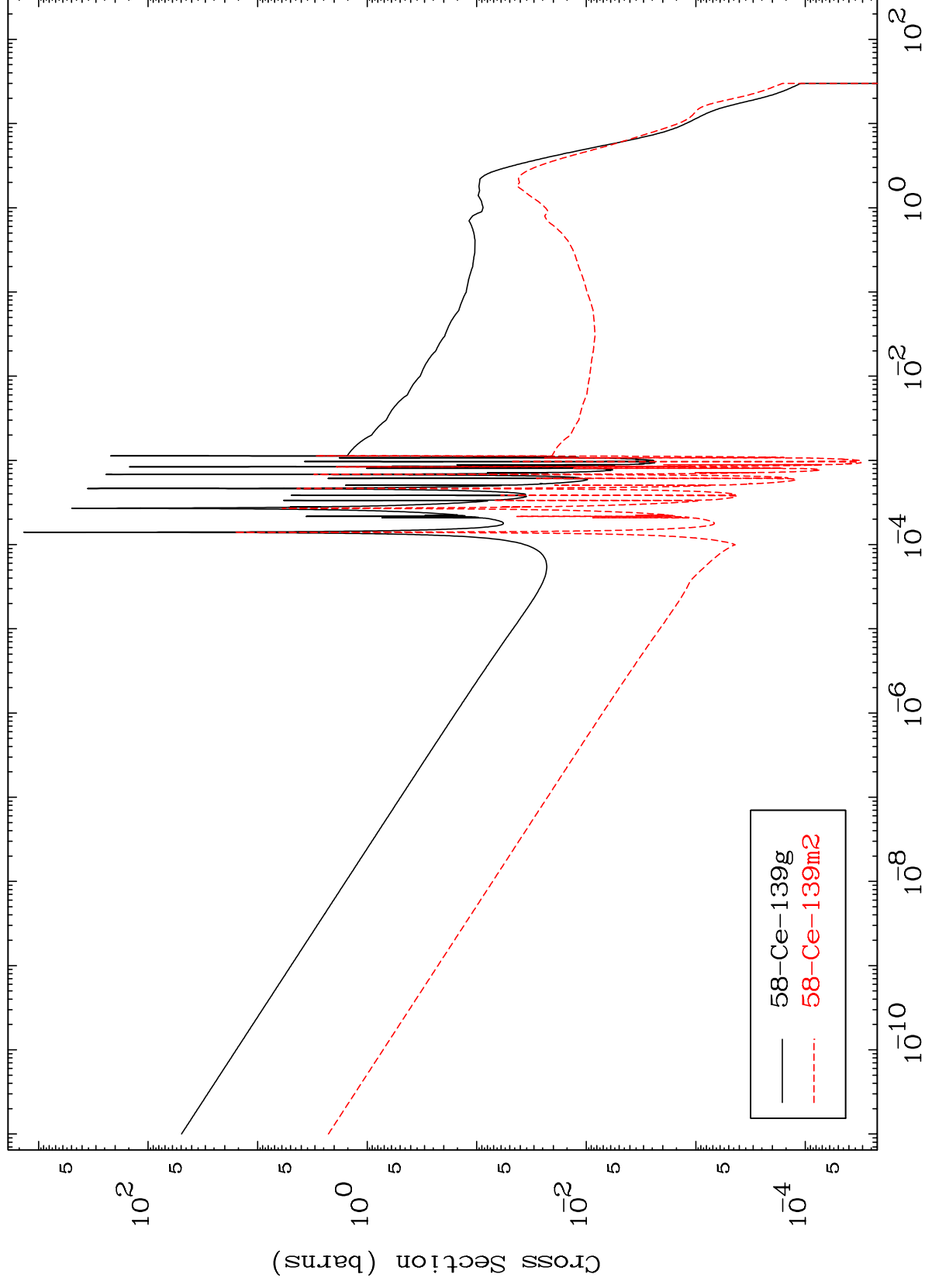
Incident Energy (MeV)

58-Ce-138

MAT 5831

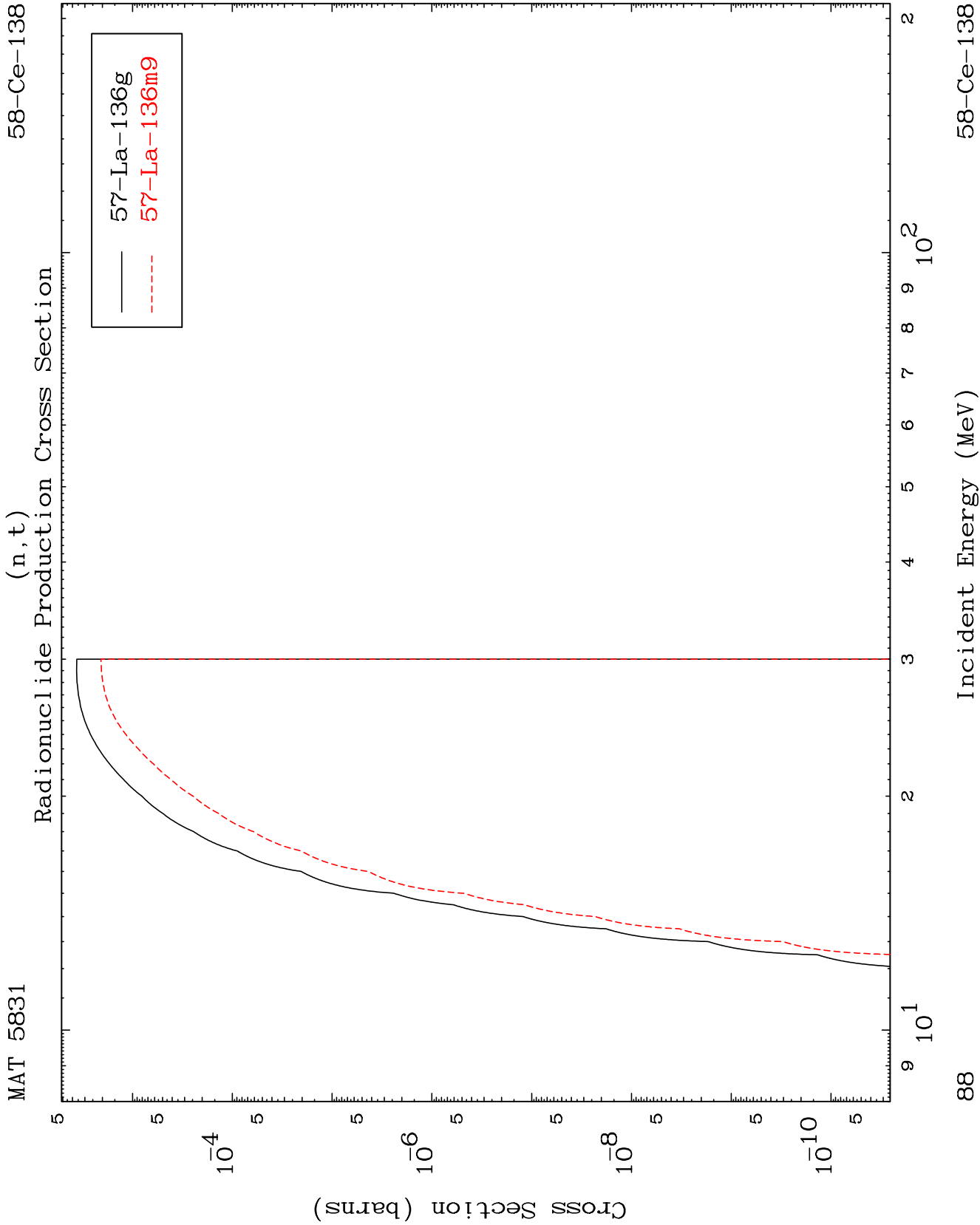
58-Ce-138

(n, γ)
Radionuclide Production Cross Section



87

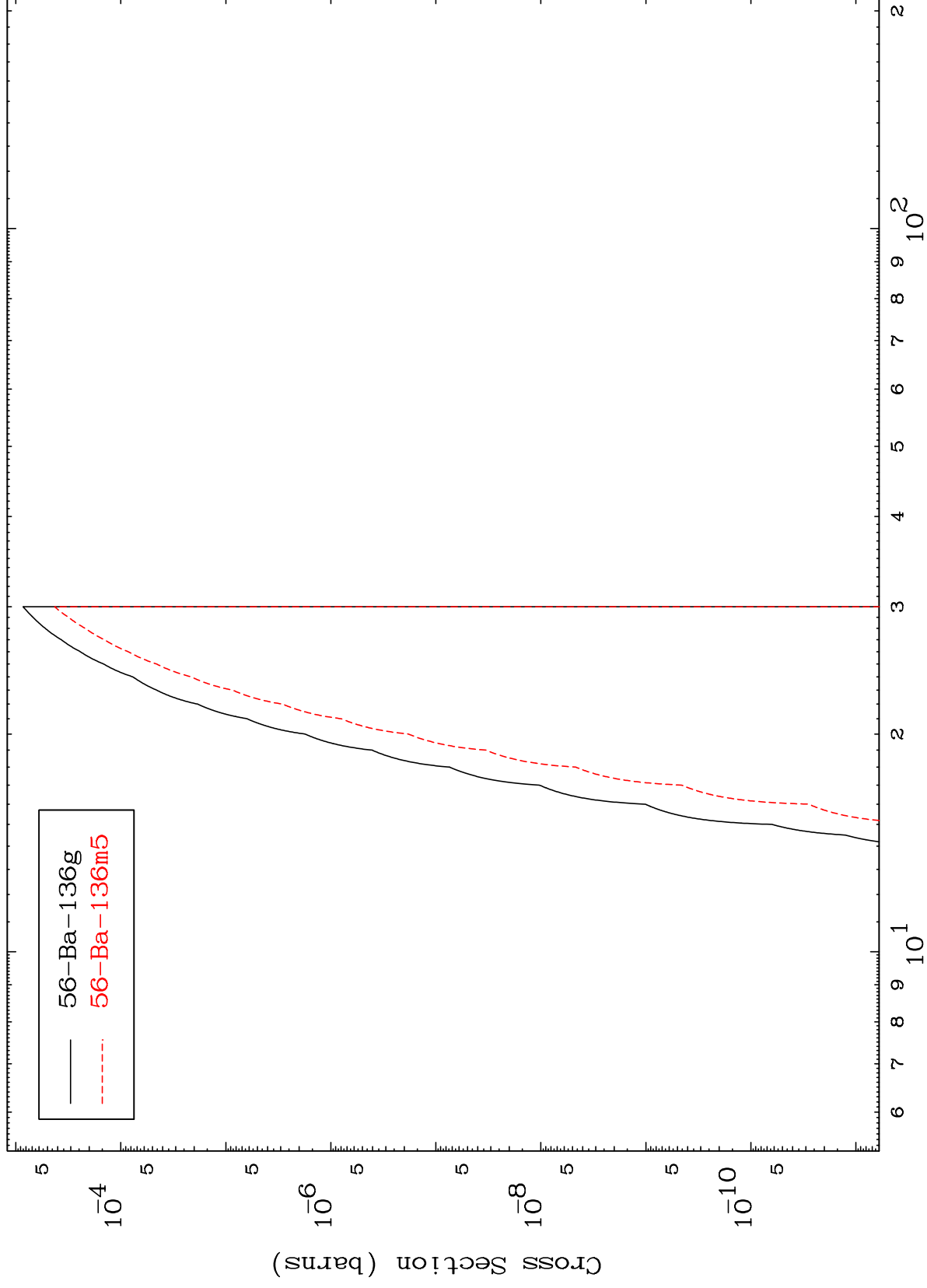
58-Ce-138



MAT 5831

58-Ce-138

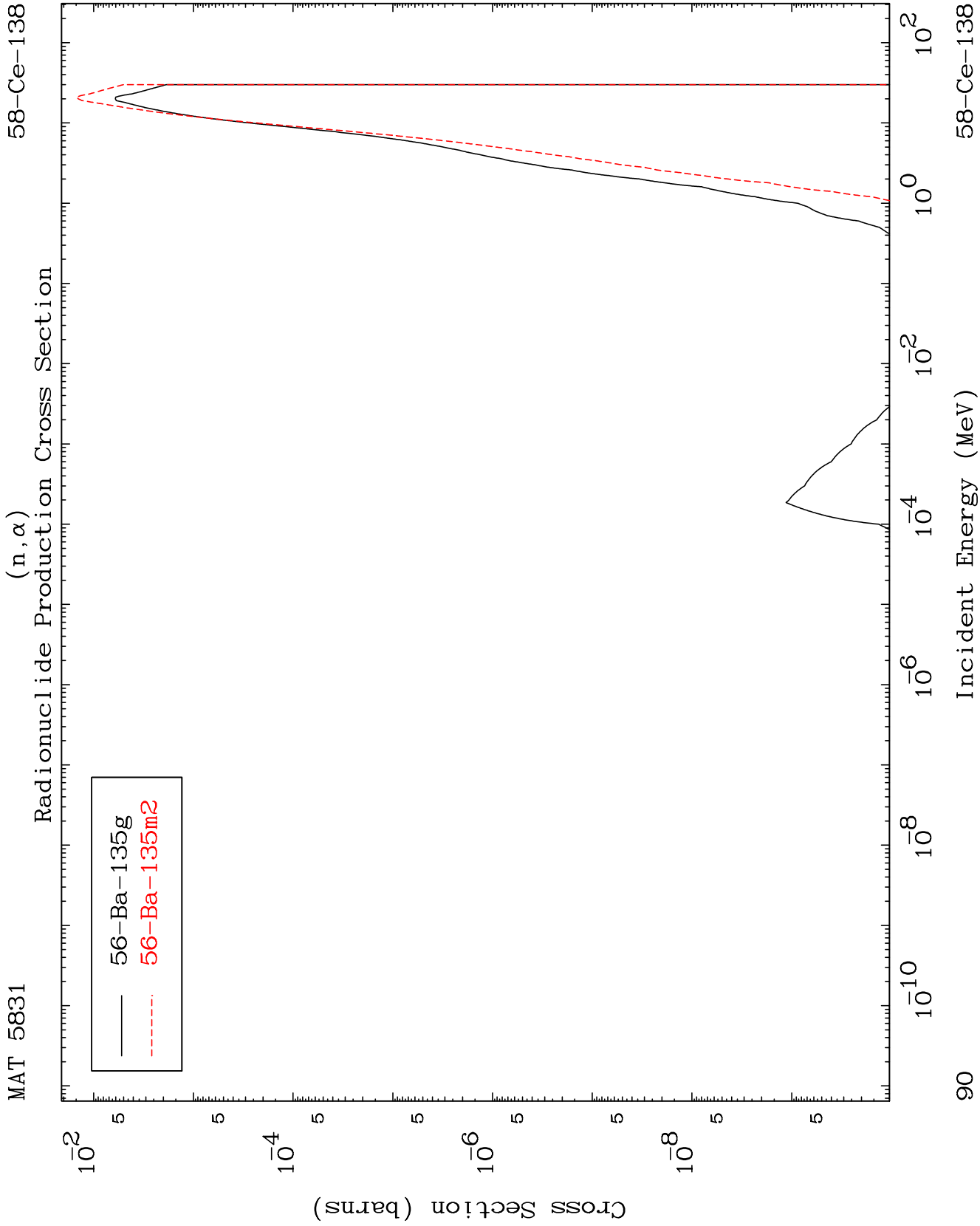
Radionuclide Production Cross Section



89

Incident Energy (MeV)

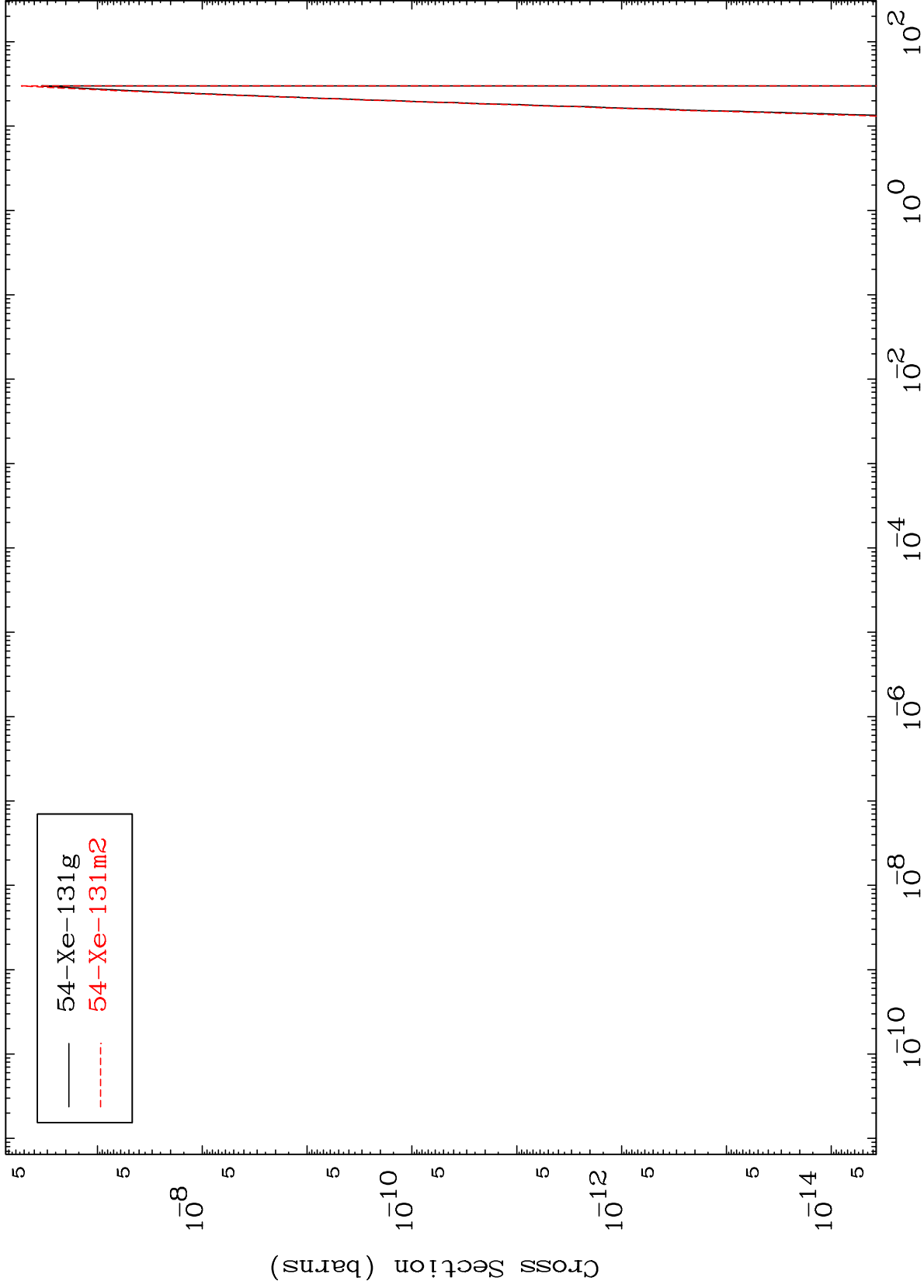
58-Ce-138



MAT 5831

58-Ce-138

(n,2α)
Radionuclide Production Cross Section



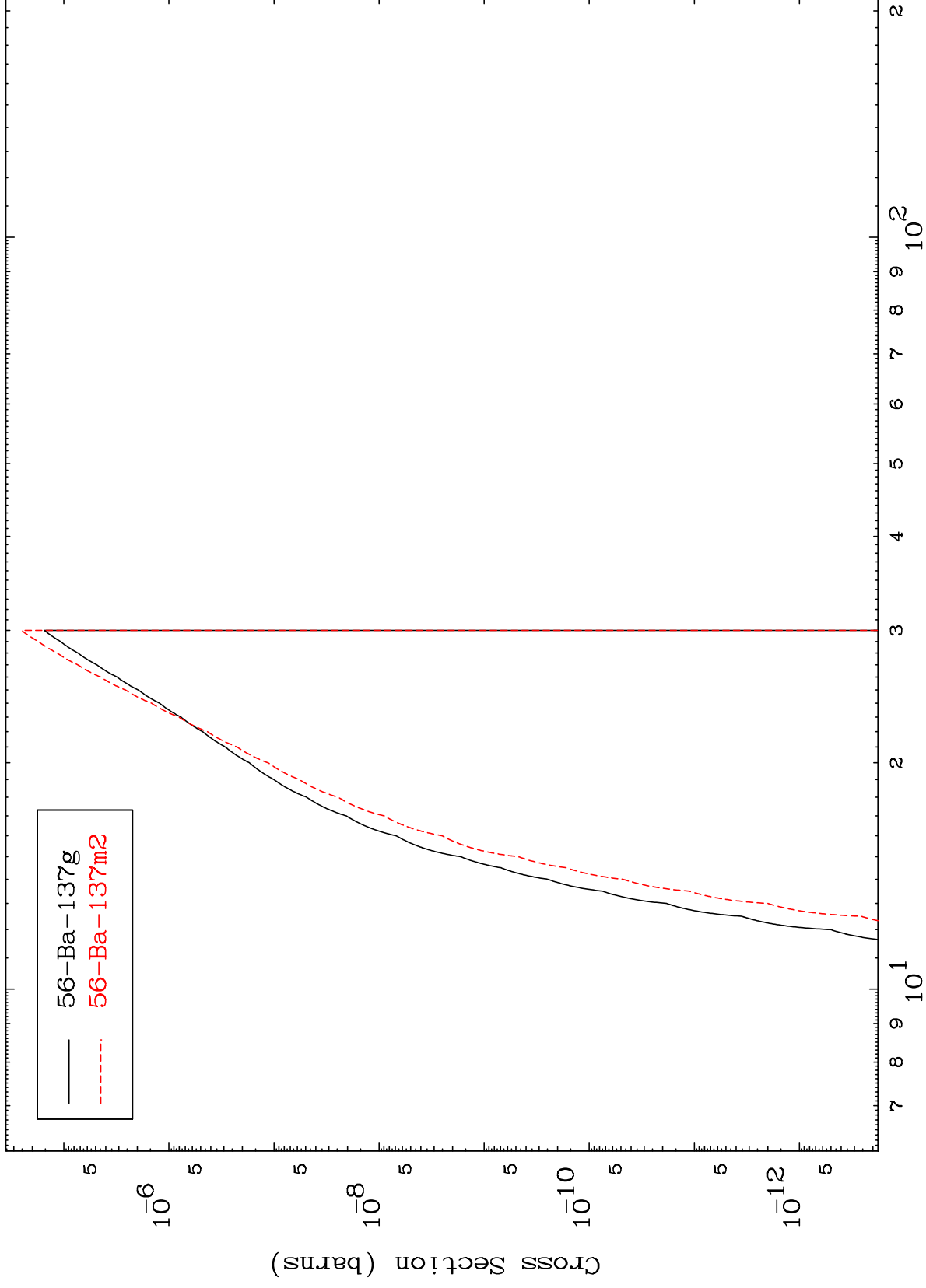
91

58-Ce-138

MAT 5831

58-Ce-138

Radionuclide Production Cross Section
(n,2p)



92

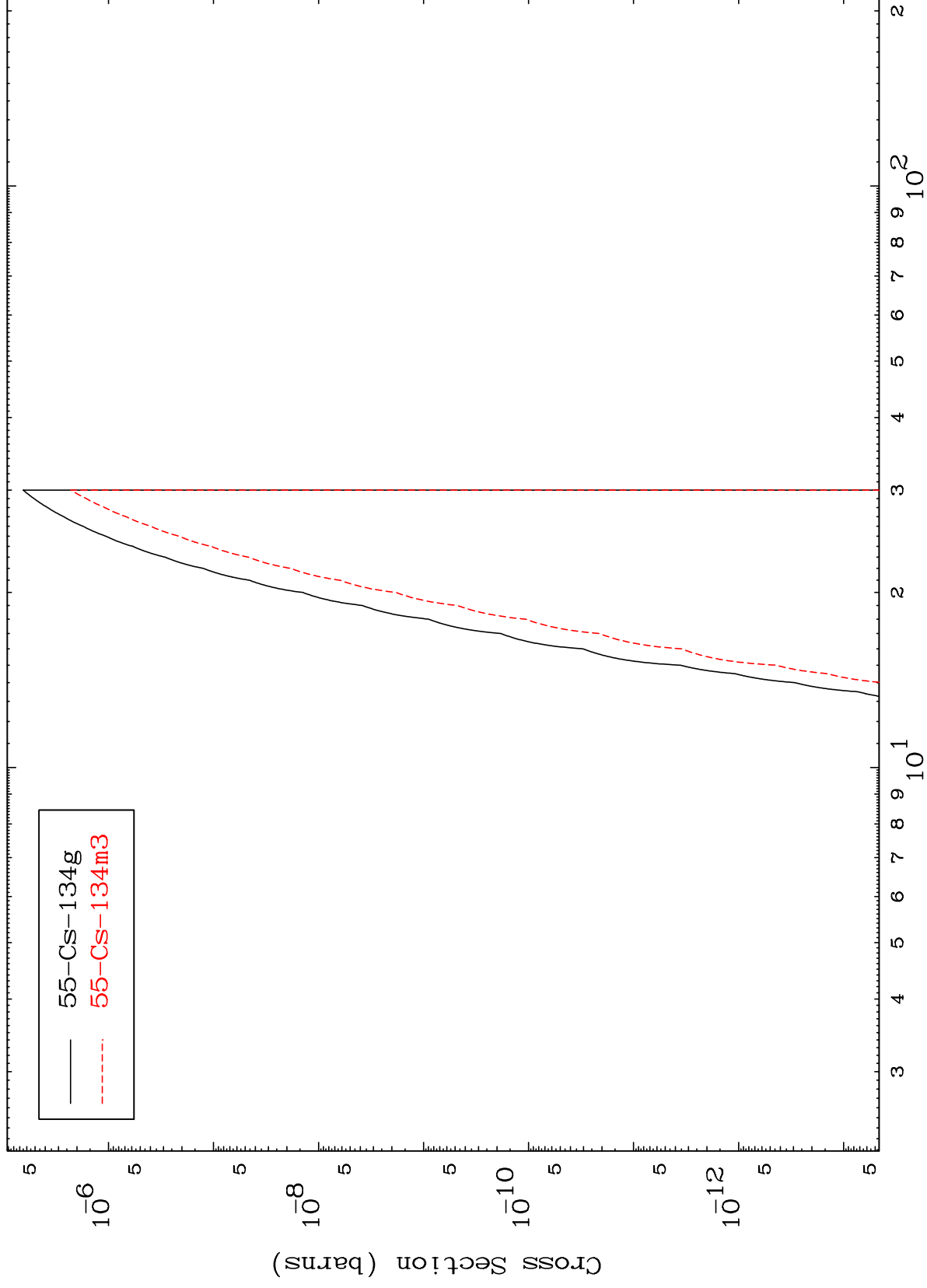
Incident Energy (MeV)

58-Ce-138

MAT 5831

58-Ce-138

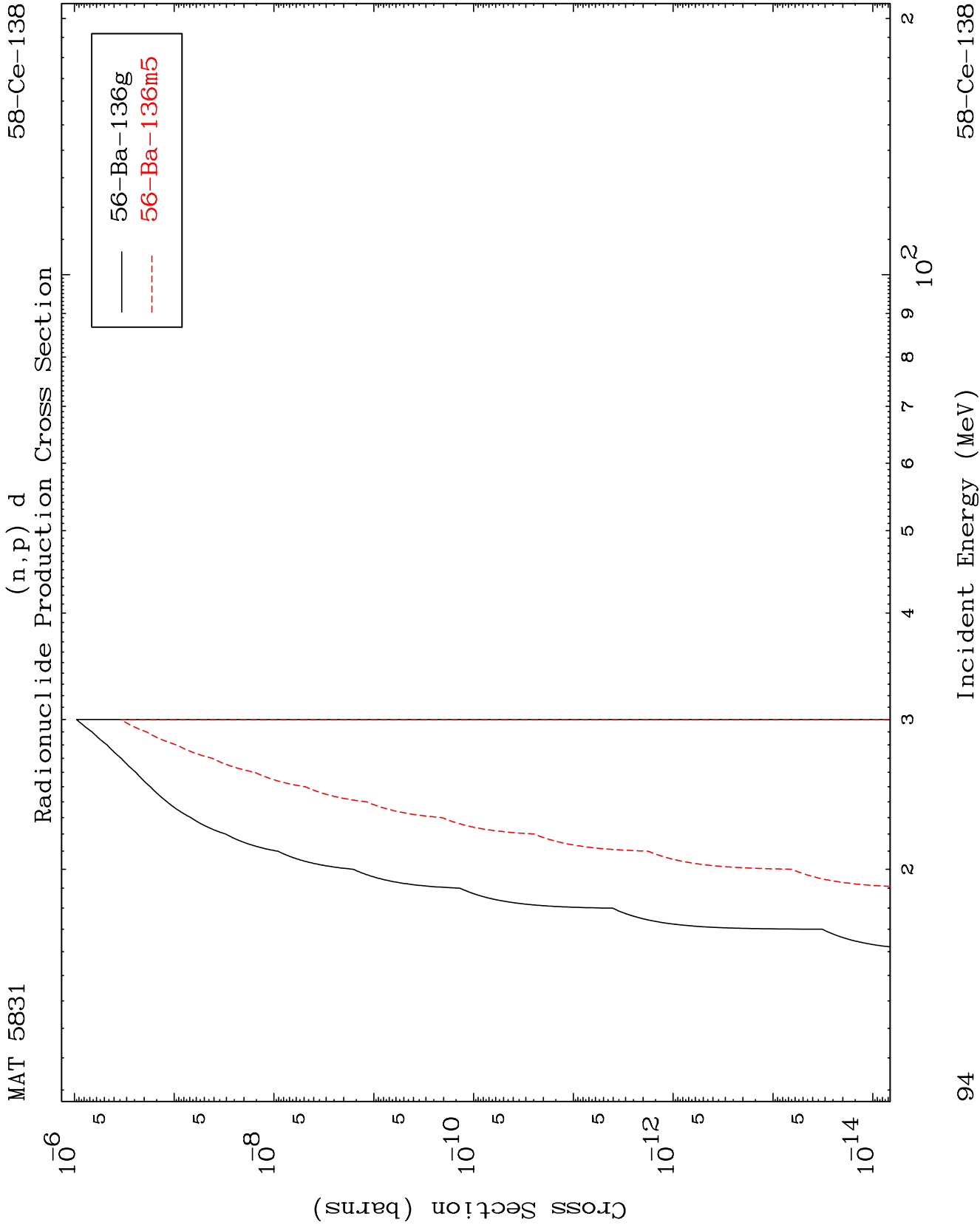
(n,p) α
Radionuclide Production Cross Section



93

Incident Energy (MeV)

58-Ce-138

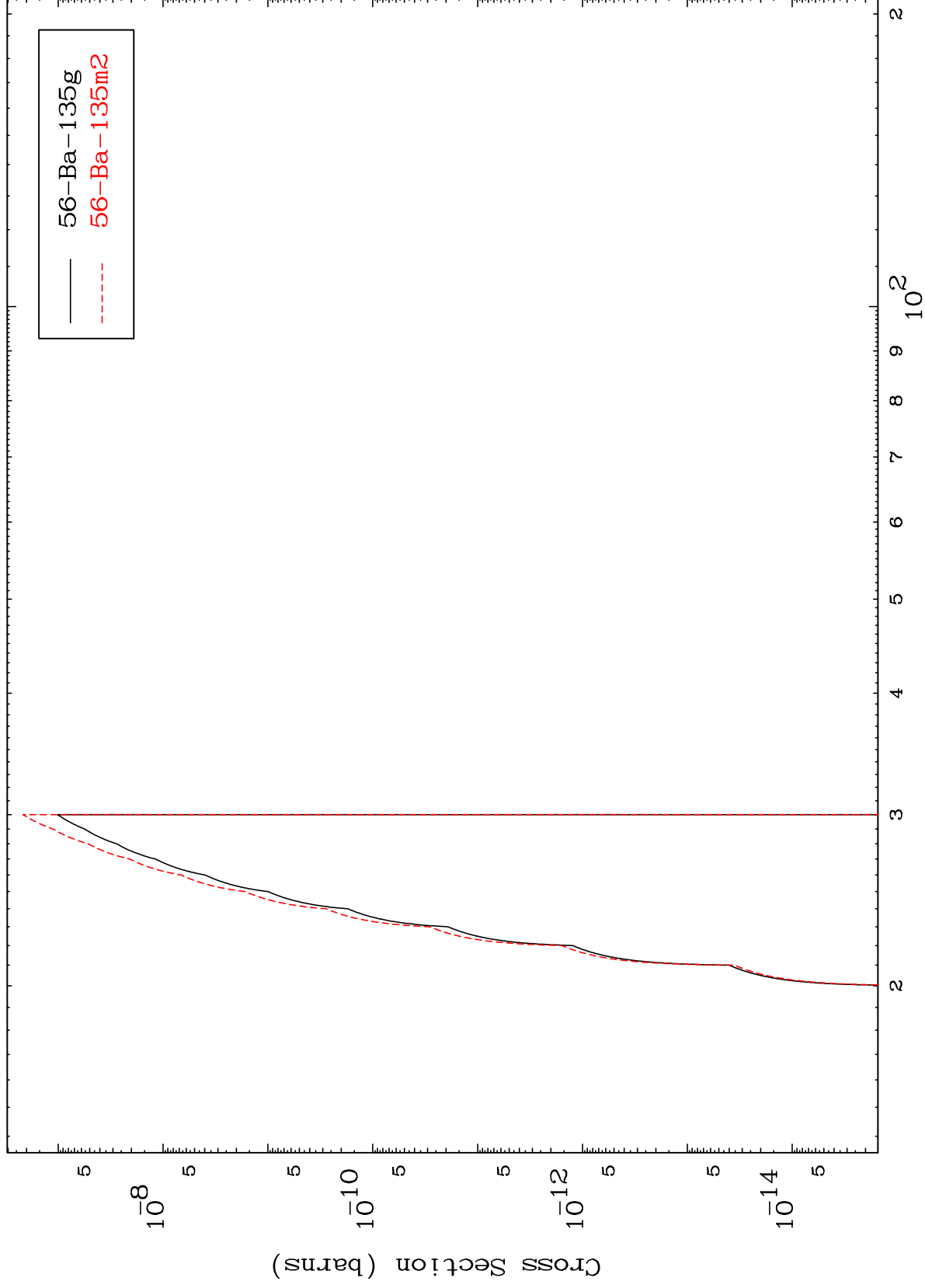


MAT 5831

(n,p) t

58-Ce-138

Radionuclide Production Cross Section



95

Incident Energy (MeV)

58-Ce-138