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データ・シート
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Characteristics of the Fission Products

―核分裂生成物特性表―

1963年8月

日本原子力研究所

Japan Atomic Energy Research Institute

JAERI 6013

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Characteristics of the Fisson Products

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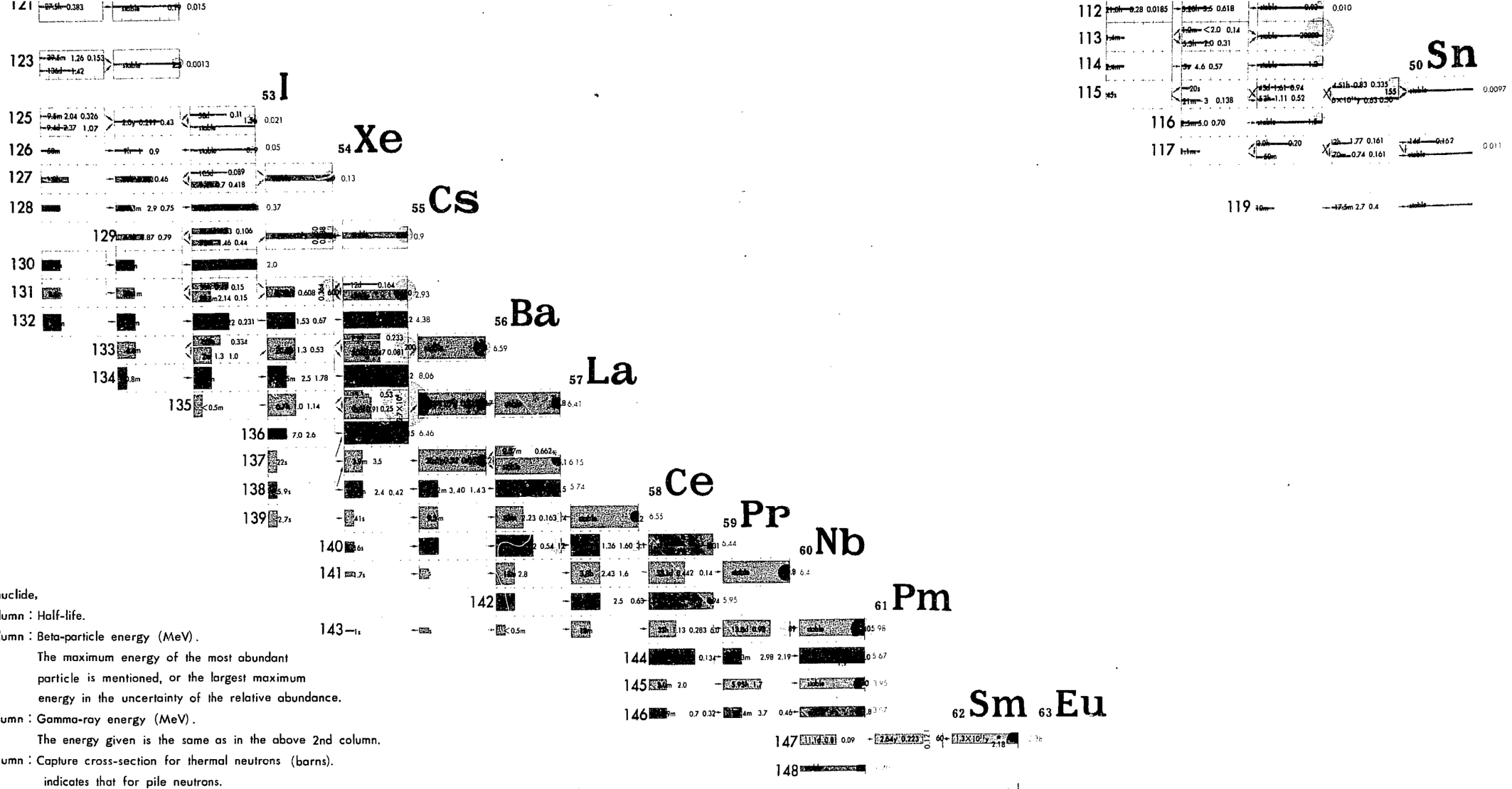
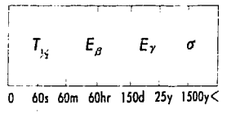


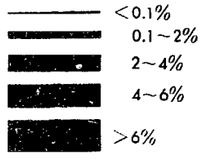
1. In each nuclide,
   - 1st column : Half-life.
   - 2nd column : Beta-particle energy (MeV).
     The maximum energy of the most abundant particle is mentioned, or the largest maximum energy in the uncertainty of the relative abundance.
   - 3rd column : Gamma-ray energy (MeV).
     The energy given is the same as in the above 2nd column.
   - 4th column : Capture cross-section for thermal neutrons (barns).
     indicates that for pile neutrons.
   - 5th column : Direction of decay.

2. The numbers appearing at the end of the decay chain show the total chain yield (%).

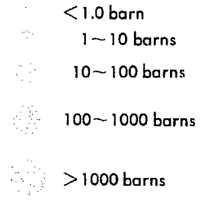
3. The portion colored show the length of the half-life.



4. The width of the adove portion shows the cumulative yield.
   * indicates the scale-down to 2/3.



5. The size of the circle gives the magnitude of the cross section.



6. References
   a) D.STROMINGER, J.M.HOLLANDER, and G.T.SEABORG : Reviews of Modern Physics, 30, No.2 part II (1958)
   b) K.KIMURA : Hoshasen Deita Bukku (1958)
   c) D.J.HUGHES and J.A.HARVEY: BNL-325, Neutron Cross Sections (1955)
      D.J.HUGHES and R.B.SCHWARTZ: ibid.,Supplement No.1 (1957) 2nd edition (1958)
      D.J.HUGHES, B.A.MAGURNO, and M.K.BRUSSEL : ibid., 2nd edition Supplement No.1 (1960)

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