

RADIOACTIVITY OF METEORITES

A. H. Kukoč

Institute of Nuclear Sciences "Boris Kidrič", Beograd

A short review of methods and results of meteor - astronomy including a rough mineralogical classification of meteorites has been presented. The flux of meteoritic material (dominantly micrometeorites) at the earth surface has been estimated to be 2 - 200 $\mu\text{g}/\text{m}^2/24\text{h}$.

"Cosmogenic" and "natural" radioisotopes observed in meteorites have been listed. The chronology of meteorites and intensity of cosmic-rays based on the activity measurements have been discussed.

To illustrate the "exotic" isotopic abundances of some elements observed in meteorites several tables have been shown.

This report has been compiled from:

1. Д. Я. Мартынов, "Курс общей астрофизики, "Наука", Москва, 1971.
2. А. Н. Лаврухина, "Ядерные реакции в космических телах", "Наука", Москва, 1972.
3. "Radioactive dating and low-level counting", *Proc. of Symp. Monaco*, 2-10 March, 1967., *IAEA*, Vienna, 1967.
4. "Meteorite research", *Proc. of Symp.*, 7-13 August, 1968., Vienna; Ed. P. M. Milman, P. Reidel. Publ. Comp., Dordrecht, Holland.