

**IN MEMORY OF LEV DORMAN
(01.05.1929–27.07.2022)**

The world-famous Russian and Israeli space scientist Lev Isaakovich Dorman left this earth at the age of 94. His life was spent in Russia, Israel (since 1992) and the USA (Princeton University). In fact, he was a citizen of all mankind. It stood far above ordinary human understanding, above politics, above the storms and struggles of this world. His motto was: science and only science, and that in its purest and truest form. He remained a tireless and active scientist until the end.

In the 1950s, Lev Dorman laid the foundations for the study of cosmic ray variations of atmospheric, magnetospheric and extraterrestrial origin. The main discoveries he made in the early years of his scientific activity can be summarized with the following significant discoveries:

- separation of the two types of plasma flows from the Sun. The first type of flows have relatively weak frozen magnetic fields with an intensity roughly constant during the solar cycle. Flows of the second type have about an order of magnitude higher magnetic fields and their intensity is approximately proportional to the level of solar activity, cause strong magnetic storms on Earth and Forbush- decrease with the intensity of cosmic rays. Later, the first type of flows were identified with the solar wind, and the second with coronal mass ejections and interplanetary shock waves (1955–1957);

- the diffusion nature of the spread of solar cosmic rays in interplanetary space (1957);

- the resonant scattering of cosmic ray particles during propagation in the cosmic plasma (1959);

- the acceleration of the drift of cosmic rays by shock waves (1959);

- determining the size of the heliosphere from about 100 a.u. (1967) by CR variations, many years before direct space measurements.

Lev Dorman has published over 1,500 original scientific articles and 32 fundamental monographs. He visited Bulgaria several times, making an outstanding contribution to the development of space physics in our country.

Lev Dorman, sparing no effort and time, created the necessary organization and scientific potential for cosmic ray research in Russia and Israel. Thanks to his efforts, the results of these studies received wide international recognition and fame. He trained many of his students who are successfully working in many countries around the world.

We will forever cherish the wonderful memory of this bright man and outstanding scientist-cosmonaut.

Corr. Member Peter I. Y. Velinov