

Iosif Bentsionovich Khriplovich (on his seventieth birthday)

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Professor Iosif Bentsionovich Khriplovich, Corresponding Member of the Russian Academy of Sciences (RAS), Chief Researcher of the Theoretical Department of the G I Budker Institute of Nuclear Physics of the RAS Siberian Branch (SB), DSc in Physics and Mathematics, celebrated his 70th birthday on January 23, 2007.

Khriplovich's entire creative life is inseparable from the Institute of Nuclear Physics to which he went to work in 1959 immediately after graduating from Kiev State University.

His very first paper, written in 1960 in collaboration with V N Baier and devoted to neutral currents in weak interactions, defined one of the main fields that has attracted him ever since: the physics of high energies and elementary particles.

Khriplovich later obtained important results in the theory of weak and electromagnetic interactions, in gauge theories where he was the first to point to charge antiscreening in Yang–Mills type theories, and in the theory of gravitation. This work brought him recognition by the world scientific community.

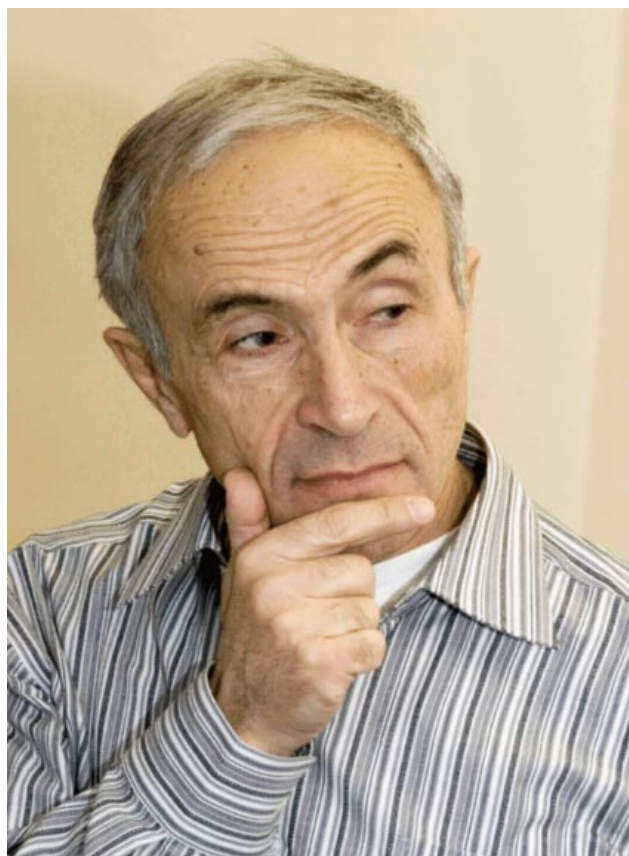
In 1974, he proposed and carefully calculated the now classic experiment on detecting parity violation in atoms owing to the weak interaction between electrons and nucleons; the experiment was later carried out with great skill by experimenters at the RAS SB Institute of Nuclear Physics. The work by Khriplovich and his pupils and co-workers in this field constituted important progress in the theory of multielectron atoms. Khriplovich also made a large contribution to the search for physical manifestations of the violation of the fundamental symmetries in processes involving elementary particles and atomic nuclei.

The span of his scientific interests is exceptionally broad, from nuclear physics to general relativity. He has published over 130 scientific papers and several monographs which have gone through a number of reprints both in this country and abroad.

At the moment, his interests are concentrated on the theory of gravitation. He has carried out several important studies on the dynamics of particles with spin in the gravitational field and on black hole physics.

Khriplovich actively participates in numerous international conferences and workshops, where his reports invariably enjoy lively interest.

Khriplovich successfully combines intense research with teaching at Novosibirsk State University, where he has for many years been one of the most popular lecturers. Being both a professor and head of the Chair of Theoretical Physics, he has developed and regularly read original courses on quantum mechanics, the theory of weak interactions, and



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general relativity. He wrote the corresponding course books that were published by Novosibirsk State University. Khriplovich has supervised the preparation and defence of 14 theses for Candidate of Sciences; four of his pupils have been awarded the DSc degrees.

We extend our best wishes to Iosif Bentsionovich Khriplovich from the bottom of our hearts on his 70th birthday and wish him happiness, good health, and further creative success in his multifaceted activities.

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