Atomic parity violation and searching for dark matter with magnetic resonance: recent results from Mainz

Prof. Dr. Dmitry Budker

Institut für Physik, Universität Mainz

We will discuss a measurement of atomic parity violation in a chain of Yb isotopes and the progress in the CASPEr experiments, including the recent results of the search for ultralight dark-matter fields with zero- and ultralow-field (ZULF) nuclear magnetic resonance.