

## Results of the characterizations of samples of Cuban materials using nuclear and related techniques available at the Frank Laboratory of Neutron Physics, JINR

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In September of last year 2021, two groups of perovskite samples of different natures (KNN and PZT:Gd) were sent from the **Institute of Materials Science and Technology (IMRE)** of the University of Havana, Cuba, to be studied in the **Frank Laboratory of Neutron Physics (FLNP)**. The promising results obtained with these samples allowed the opening of a broad scientific collaboration between both institutions, which focuses fundamentally on the analysis of materials through different characterization techniques. Within these studies, **Ion Beam Analysis (IBA)** techniques represent one of the most important characterization tools used. As part of this close collaboration, a significant number of interesting materials have been studied to date, whose variety ranges from the study of semiconductor materials, to the compositional analysis of samples of Cuban meteorites. In the present work, the most notable results derived from the study of some of these samples are presented.

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