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What can we learn from nuclei-nuclei interactions at LHC

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The discovery of Higgs boson completed the first (and main) stage of experiments on p-p-interactions at LHC. Attempts to search new physics effects in these experiments did not give positive results. At that time, many interesting and not described by modern theories and models phenomena were observed in cosmic ray experiments in the energy region 1015 −1017 eV, which corresponds to the LHC energy interval 1 −14 TeV. It is important that all unusual phenomena were observed in interactions of cosmic ray particles (most part, nuclei) with nuclei of atoms of the atmosphere. In this talk, on the basis of the analysis of cosmic ray experimental results, some propositions for nuclei-nuclei experiments at LHC are considered.

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