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Progress report of the ALPACA experiment

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We started a new air shower observation experiment, ALPACA, to observe cosmic gamma rays and cosmic rays of several TeV or more from the southern sky of the galaxy.

The ALPACA's location is at an altitude of 4,740 m on the hillside in Chacaltaya, Bolivia,

The ALPACA consists of a ground-based air shower detector array of 401 scintillation detectors and a large-area water Cherenkov-type underground muon detector array.

For a prototype experiment of the ALPACA, the ALPAQUITA air shower array has been partially installed and in operation since 2022.

We will report the construction status and initial data analysis of ALPAQUITA.

Primary author: KATAYOSE, Yusaku

Presenter: KATAYOSE, Yusaku

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