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Overview and current status of the ALPACA experiment

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The ALPACA (Andes Large area PArticle detector for Cosmic ray physics and Astronomy) experiment is aimed at observing cosmic gamma rays above 10 TeV in the southern sky with wide field of view and high sensitivity. We will construct an 83,000 m² surface air-shower array and a 5,400 m² underground muon detector array, on a highland (Chacaltaya Hill) at the altitude of 4,740 m halfway up Mt. Chacaltaya on the outskirts of La Paz, Bolivia.

Prior to the construction of the full ALPACA array, we are planning to build a 1/10-scale prototype air-shower array.

In this talk, the overview and current status of the ALPACA experiment will be reported.

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