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## Design highlights and status of the LHAASO project

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The Large High Altitude Air Shower Observatory (LHAA-SO) project plans to build a hybrid extensive air shower (EAS) array with an area of 1 km<sup>2</sup> at an altitude of 4410 m asl in Sichuan province, China, aiming for very high energy gamma ray astronomy and cosmic ray physics around the spectrum knees. With a sensitivity of 1% Crab unit, the LHAA-SO will survey the entire northern sky for gamma ray sources with full duty cycle. The spectra of all sources in its field of view will be measured simultaneously over a wide energy range from 300 GeV to 1 PeV. This measurement will offer a great opportunity for identifying cosmic ray origins among the sources. The LHAASO is also equipped with Cherenkov/fluorescence telescopes and in-filled burst detector array, so it will serve as the most effective detector for energy spectral measurement of different mass groups of cosmic rays.

In this contribution, the design highlights and status of LHAASO project are presented.

### Collaboration

LHAASO

### Registration number following "ICRC2015-I"

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