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Aiming at wide field of view survey for sources of gamma rays at energies above 100 GeV, search for cosmic ray origins among those gamma ray sources at energies above 30 TeV and energy spectrum measurements for individual cosmic ray species from 30 TeV to 10 PeV, a Large High Altitude Air Shower Observatory (LHAASO) project with a complex array of many types of detectors is proposed. Progresses on R/D of all the detectors, construction and operation of an engineer array at the Tibet site at 4300 m a.s.l. are presented in this talk.

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