The TIBET AS+MD Project

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We are planning to build a large (approximately 10,000 m²) water Cherenkov-type muon detector array under the existing Tibet air shower array at 4,300 m above sea level, to observe 10-1000 TeV gamma rays from cosmic-ray accelerators in our Galaxy with a wide field of view at a very low background level. Gamma-ray-induced air showers have significantly less muons compared with cosmic-ray-induced ones. Counting the number of muons in air showers by the muon detector array enables us to effectively distinguish primary gamma rays from background cosmic rays. Part of the muon detector array is currently under construction. A progress report on the Tibet AS+MD project will be made in this presentation.