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The Telescope Array Low Energy Extension (TALE)

The Telescope Array Low Energy Extension (TALE) will consist of an array of scintillation counters and fluorescence telescopes designed to lower the minimum energy of the Telescope Array (TA) experiment by about an order of magnitude. The fluorescence detector will have 10 telescopes which cover elevation angles between 31 and 59 degrees, and 95 degrees in azimuth. There will be 45 scintillation counters with 400m spacing, 31 with 600m spacing, and 37 counters with the same 1200m spacing as the existing TA surface array. The physics aims of TALE are to study the second knee of the cosmic ray spectrum and the galactic-extragalactic transition, and to characterize cosmic ray showers at 1017 eV to compare with LHC measurements at the equivalent center of mass energy.

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