

COMPACT MULTICOMPONENT ARRAY FOR EAS STUDY

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A proposal for new compact multi-component and multipurpose array at Baksan valley is given. Main features of the array are supposed to be following: 10^{13} eV threshold for primaries; record angular resolution $\sim 0.5^\circ$; sensitivity to gammas by using thick liquid scintillators; sensitivity to neutrons by using special scintillators for thermal neutron detection; sensitivity to muons by using 175 sq. m. detector and sensitivity to Cherenkov light by using wide aperture Cherenkov air detectors. The array will be located in a light construction of size 20m x 20m just above the existing muon detector and 50m apart from the center of existing Carpet EAS array.