

Threshold Aerogel Cherenkov detectors of Water Cherenkov Test Experiment (WCTE)

Aerogel threshold Cherenkov detectors are supposed to be used, in combination with time of flight detectors, as part of the particle identification system of Water Cherenkov Test Experiment (WCTE). In this work, the characteristics and design of these aerogel threshold Cherenkov detectors are given, and with the aid of Monte Carlo simulations, the effects of several parameters on improvement of light collection efficiency are studied.

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