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A Cherenkov muon veto detector

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At the Frascati National Laboratories, we are developing a prototype of a detector that to serve as both a muon veto and neutron shield, which utilizes water to detect Cherenkov light. This detector can be used in the Cupid experiment.

This talk will present the preliminary results from tests conducted using cosmic rays and an electron beam at the Beam Test Facility (BTF) in Frascati. The performance of the water Cherenkov detector in these tests will be discussed, showcasing its potential effectiveness in enhancing the sensitivity and capabilities of the CUPID experiment.

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