Abstract Submitted
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The UHE-Neutrino Observatory Trinity NEPOMUK OTTE, Georgia Institute of Technology — The detection of TeV-PeV neutrinos with IceCube has cracked open a new window in astrophysics. The revelation of a relatively hard spectrum and the unknown origin of the neutrino flux are strong motivations to extend neutrino measurements to even higher energies, namely the ultrahigh-energy (UHE) regime above 10 PeV. In this talk, I show that a system of air-shower imaging telescopes is a viable UHE neutrino detector. Based on detailed design considerations, I present Trinity, a system ofsix Cherenkov telescopes. I discuss the system's sensitivity, how it can be built, address operational constraints, and plans to test the concept.

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