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UHECR and cosmogenic neutrinos

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Cosmogenic UHE neutrino fluxes are discussed. These fluxes can be detectable by Ice- Cube and future big neutrino detectors only in case the primary UHECR flux is proton dominated. The strong upper limit on proton component of UHECR is given by diffuse flux of HE photons measured recently by Fermi LAT detector up to energy 1 TeV. We argue that this limit still allows the proton-dominated composition of UHECR. The proton and neutrino sources are discussed. The PeV neutrinos detected by IceCube can be produced by sources at large redshifts. This possibility is discussed in general terms and in particular model of neutrino generation at reionization epoch.

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