



Contribution ID: 76

Type: poster

## Search for ultra-high energy photons and neutrinos using Telescope Array surface detector

We search for ultra-high energy photons by analyzing geometrical properties of shower fronts of events registered by the Telescope Array surface detector. By making use of an event-by-event statistical method, we derive upper limits on the absolute flux of primary photons with energies above  $10^{19}$ ,  $10^{19.5}$  and above  $10^{20}$  eV based on the three years data from Telescope Array surface detector (May 2008 - May 2011). We report the results of down-going neutrino search based on the analysis of very inclined events.

**Primary author:** Dr RUBTSOV, Grigory (Institute for Nuclear Research of RAS)

**Co-authors:** STOKES, Benjamin (University of Utah); IVANOV, Dmitri (Rutgers); THOMSON, Gordon (University of Utah); Prof. FUKUSHIMA, Masaki (ICRR, University of Tokyo); TROITSKY, Sergey (Russian Academy of Sciences (RU))

**Presenter:** Dr RUBTSOV, Grigory (Institute for Nuclear Research of RAS)