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## Ultrahigh-energy neutrino events in current and future neutrino telescopes from nearby Gamma-Ray Bursts

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**Abstract content**   
 (Max 300 words)   
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Neutrino Astronomy has gained momentum after discovering cosmic neutrinos by the IceCube Neutrino Observatory at the south pole. A proposed upgrade of IceCube and planned future experiments will increase sensitivity to neutrino fluxes at ultrahigh energies ( $> \text{PeV}$ ). We consider ultrahigh-energy neutrino flux from the Gamma Ray Bursts (GRBs) during the afterglow phase. We calculate this flux by modeling in details the observed afterglow data with standard afterglow theories for nearby long-duration GRBs within redshift 0.5. We also calculate neutrino events from these GRBs in the current and future experiments such as KM3NeT, IceCube Gen-2, Pierre Auger Observatory and JEM EUSO.

**Apply to be considered for a student award (Yes / No)?**

YES

**Level for award (Hons, MSc, PhD, N/A)?**

PhD

**Main supervisor (name and email) and his / her institution**

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**Would you like to submit a short paper for the Conference Proceedings (Yes / No)?**

Yes

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Yes

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