

# NEUTRINOS FROM A CHANNELLED BLAST WAVE IN JETS OF AGN

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Based on a recently published model for  $\gamma$ -ray production by a collimated, relativistic blast wave (Pohl and Schlickeiser, 2000), we have calculated the neutrino production resulting from the proton-proton collisions in the highly relativistic plasma in jets of AGN.

It is shown that neutrino emission is correlated with the emission of TeV  $\gamma$ -rays. The search for neutrino emissions from point sources like jets of AGN may be facilitated by means of TeV  $\gamma$ -ray light curves to drastically reduce the temporal and spatial parameter space. Given the observed TeV photon fluxes from nearby BL Lacs the neutrino flux can exceed the atmospheric background and therefore be detectable with future neutrino observatories. The bulk of the neutrino emission is expected in the energy range between 100 GeV and a few TeV.