

EXTRAGALACTIC NEUTRINO BACKGROUND FROM PBH EVAPORATIONS.

E.V. Bugaev (1) and K.V. Konishchev (1)

(1) Institute for Nuclear Research, Russian Academy of Sciences, Moscow 117312, Russia.

`bugaev@pcbai10.inr.ruhep.ru`

Energy spectra and fluxes of electron neutrinos from evaporation of primordial black holes (PBHs) in the early universe are calculated. The constraints on the spectral index of primary density perturbations following from the analysis of solar and atmospheric neutrino experiments are obtained.