THEODOROS CHRISTOUDIAS, Imperial College, London, D0 COLLABORATION — We present a search for a light Standard Model Higgs Boson produced in association with a Z boson decaying invisibly into a pair of neutrinos. The final state is characterised by the presence of two b-tagged jets from the Higgs Boson decay and a large imbalance in the transverse energy of the event. The search has been performed using data corresponding to 2 fb$^{-1}$ of integrated luminosity collected by the D0 experiment at Fermilab. This channel is challenging as the decay signatures are common in QCD and instrumental backgrounds.