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Search for Associated Production of Z and Higgs Bosons in $\nu\bar{\nu}b\bar{b}$ Final States MICHELE PETTINI, Imperial College, London, D0 COLLABORATION — Studies are presented from the DØ experiment at Fermilab for the search for a light Standard Model Higgs Boson in association with a Z boson, which decays invisibly to $\nu\bar{\nu}$. This channel relies on the identification of two *b*-tagged jets from the Higgs Boson decay and on the measurement of a large imbalance in the transverse energy (E_T) of the event. This channel is challenging as the decay signatures are common in QCD and instrumental backgrounds.

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