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Search for SM Higgs boson using large missing E_T plus b-jets final state at DØ MAKOTO TOMOT, Fermi National Accelerator Laboratory, DZERO COLLABORATION — We report on the search for the Standard Model Higgs Boson produced in association with the Z Boson at the Tevatron $p\bar{p}$ Collider. In particular, we study the $p\bar{p} \to ZH \to \nu\nu b\bar{b}$ channel, which is one of the most sensitive in light Higgs Boson searches because of the large $Z \to \nu\nu$ branching ratio. The analysis starts from a sample of multi-jet events with large missing E_T, from where we select events with two b-jets and reconstruct the mass of the system. After properly subtracting the backgrounds, we measure the upper limit for ZH production cross section based on L=260 pb^{-1} of the data.

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