Abstract Submitted
for the APR12 Meeting of
The American Physical Society

**Jet Identification and Dijet Mass Resolution for Standard Model Higgs Searches at D0** DIKAI LI, LPNHE, Universite Paris VI, France, D0 COLLABORATION — We search for the standard model Higgs boson with the D0 detector at the Fermilab Tevatron collider with 9.7 fb$^{-1}$ of integrated luminosity in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV in association with $W$ or $Z$ boson, considering $H \to b\bar{b}$ decays. We will present the jet identification criteria used in the analyses to maximize the sensitivity to a possible Higgs boson signal and discuss the algorithms used to improve the di-jet invariant mass resolution.

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Date submitted: 06 Jan 2012 Electronic form version 1.4