

# Search for Associated Production of Z and Higgs Bosons in $llbb$ Final States in $p\bar{p}$ Collisions at $\sqrt{s}=1.96$ TeV.

*Tuesday 18 August 2009 14:00 (1 minute)*

## Please give a brief summary of your poster

**Abstract:** We present a search for a low-mass Standard Model Higgs boson produced in association with a  $Z$  boson decaying to charged leptons at a center-of-mass energy of  $\sqrt{s}=1.96$ -TeV with the D0 detector at the Fermilab Tevatron collider. The search is performed in events containing two opposite-sign leptons (electron, muon, tau) and one or two b-tagged jets with up to  $5\text{-fb}^{-1}$  of data. As well as the inclusion of the full data set, recent improvements to the sensitivity will be discussed, including increased lepton acceptance.

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**Session Classification:** Poster Session

**Track Classification:** Poster Session