#### High Energy Physics - Experiment

# Search for Higgs boson production in dilepton and missing energy final states with 5.4 fb-1 of p-pbar collisions at sqrt(s) =1.96 TeV

#### The D0 Collaboration

(Submitted on 25 Jan 2010 (v1), last revised 13 Feb 2010 (this version, v3))

A search for the standard model Higgs boson is presented using events with two charged leptons and large missing transverse energy selected from 5.4 fb-1 of integrated luminosity in p-pbar collisions at sqrt(s)=1.96 TeV collected with the D0 detector at the Fermilab Tevatron Collider. No significant excess of events above background predictions is found, and observed (expected) upper limits at 95% confidence level on the rate of Higgs boson production are derived that are a factor of 1.55 (1.36) above the predicted standard model cross section at Higgs boson mass of 165 GeV.

| Comments:          | 7 pages with 2 figure and 2 table; updated to reflect published version |
|--------------------|---|
| Subjects:          | High Energy Physics - Experiment (hep-ex)                               |
| Journal reference: | Phys.Rev.Lett.:104,061804(2010)   |
| DOI:               | 10.1103/PhysRevLett.104.061804  |
| Report number:     | FERMILAB-PUB-10-015-E   |
| Cite as:           | arXiv:1001.4481v3 [hep-ex]  |

#### **Submission history**

From: Michael Kirby [view email]
[v1] Mon, 25 Jan 2010 16:40:59 GMT (73kb)
[v2] Wed, 3 Feb 2010 21:06:05 GMT (74kb)
[v3] Sat, 13 Feb 2010 16:58:07 GMT (74kb)

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