

TeV4LHC Higgs group working meeting

December 14, 2004, Fermilab

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Reminder of the Workshop goal

- Make the best possible use of data and experience from the Tevatron to impact LHC experimental program.
 - Understand how Tevatron Higgs results can shape program of Higgs searches at LHC
 - Use Tevatron data to improve background event modeling and theoretical understanding for the signal and backgrounds at LHC
 - Use experience with real problems at the Tevatron to prepare for challenges of hadron collider environment
- Identify specific projects, with responsible persons identified that will be carried out during the workshop lifetime.
- Produce documentation (proceedings) by the end of 2005.

Workshop meetings

- September 16-18, 2004, FNAL
 - ◆ Higgs working meeting, December 14, 2004, FNAL
- February 3-5, 2005, BNL
 - ◆ Higgs working meeting
- Late April 2005, CERN
 - ◆ Higgs working meeting
- Fall 2005, FNAL

For BNL meeting, non-US citizens need to register by
December 22nd:

<http://www.bnl.gov/tev4lhc>



Today's agenda

Morning Session (10:30->12:40)

Description: Video on Venus Room in VRVS

Location: FNAL (Wilson Hall 7X)

Broadcast: 

10:30	Introduction (10')	Dominguez, A; lashvilli, I; Willenbrock, S
10:40	Update on Higgs cross sections (10') ( transparencies)	Willenbrock, S
10:50	Non-standard Higgs searches at the Tevatron (30')	Han, T
11:20	The Invisible Higgs at the Tevatron (20')	Davoudiasl, H
11:40	The Invisible Higgs at the LHC (20') ( transparencies)	Logan, H
12:00	Followup on PDF effects on hbb cross section and selection efficiency (20')	Yamaoka, J
12:20	FSR/ISR effects on hbb production (20')	Mrenna, S

Lunch (12:40->14:00)

Afternoon Session (14:00->18:00)

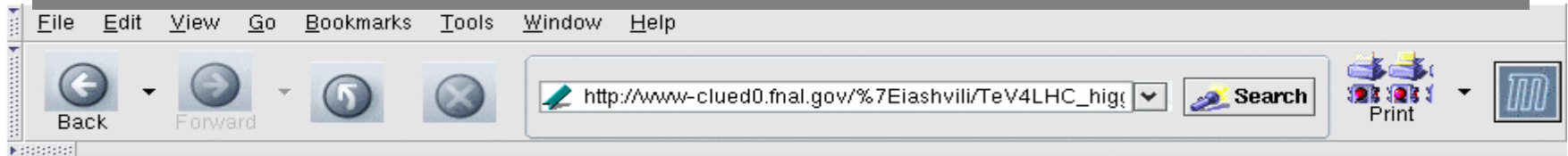
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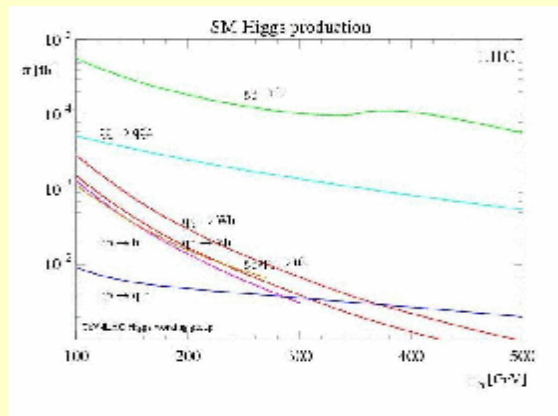
Broadcast: 

14:00	Improving jet resolution with tracking (20')	Schwartzman, A
14:20	b-jet calibration with photon+b-jet (20')	Cammin, J
14:40	Z-->bb (20')	Dorigo, T
15:00	NMSSM Higgs scenarios at the Tevatron (30')	Gunion, J
15:30	Coffee Break	
16:00	H+ search at CDF and eye towards LHC (20')	Eusebi, R
16:20	H++ --> diptons and Stable H++ (30')	Hays, C
16:50	Discussion and Goals (50')	All

Our webpage



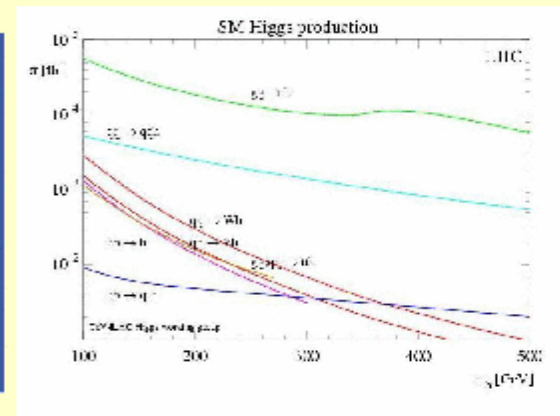
Tevatron Run II



[more information](#)



LHC



[more information](#)

Higgs Working Group

Convenors: [Aaron Dominguez](#) (CDF), [Ia Iashvili](#) (DØ), [Scott Willenbrock](#) (TH)
[Send email to all three convenors](#)

Introduction

The goal of TeV4LHC workshop is to explore how Tevatron results and experience can be used in most efficient way to impact the LHC physics program. The workshop is year-long series of meetings, with specific projects to be defined and carried out.