TeV4LHC Higgs group working meeting

December 14, 2004, Fermilab

Aaron Dominguez, Ia Iashvili, Scott Willenbrock

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 specifics 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

Todays 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; Iashvilli, 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)		**Description:** *Video on Venus Room in VRVS* **Location:** FNAL (Wilson Hall 7X) **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++ --> dipletons and Stable H++ (30')	Hays, C
16:50	Discussion and Goals (50')	All

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http://www-clued0.fnal.gov/%7Eiashvili/TeV4LHC_higg

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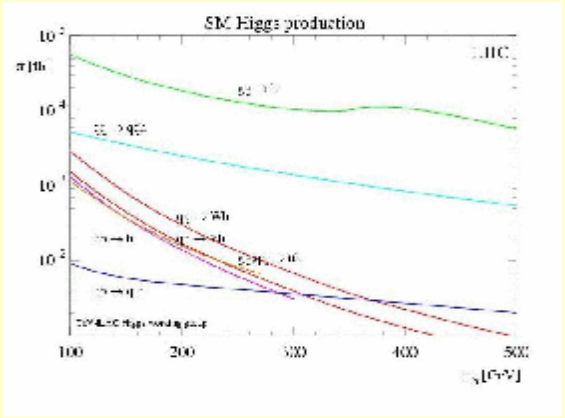
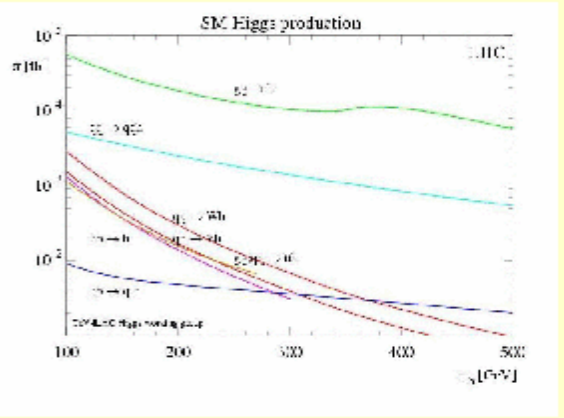
Tevatron Run II



LHC



more information

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.

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