

Welcome

Session on Top Physics

Helmholtz Alliance Annual Workshop

Bonn, 07-09 December 2011

Who we are

- **Kevin Kröniger (Goettingen, ATLAS)**
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- **Frank-Peter Schilling (Karlsruhe, CMS)**
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- **Werner Bernreuther (Aachen, TH)**
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- **Peter Uwer (Berlin, TH)**
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What we are

- Working group on Top Physics in the context of the Helmholtz Alliance / KET LHC-D Workshops
- Organizing sessions on Top Physics at Annual Alliance Workshops
- Topical Workshops, e.g. in 2011
 - Workshop on Top Physics, 07-08 April, Wuppertal
 - <http://indico.desy.de/conferenceDisplay.py?confId=3969>
 - Workshop on single top and 4th Generation, 05-06 Sept. DESY
 - <http://indico.desy.de/conferenceDisplay.py?confId=3531>

Mailing list

- dlhc_top@desy.de
- We use this to announce workshops etc.
- Send one of us a mail if you want to subscribe

2012 Workshop Announcement

- 22-23 March in Berlin (-Adlershof)
- <https://indico.desy.de/conferenceDisplay.py?confId=5066>
- More information and call for contribution will come in January

Today's Agenda


Location: Hörsaal 2

16:00 **Introduction 10'**

Speakers: Frank-Peter Schilling (KIT / University of Karlsruhe) , Peter Uwer (Humboldt-Universität zu Berlin) , Werner Bernreuther (RWTH Aachen) , Kevin Kroeninger (University of Goettingen)


16:10 **Measurement of the top-quark pair production cross-section in pp collisions at $\sqrt{s}=7$ TeV in dilepton final states with ATLAS 20'**

Speaker: Kirika Uchida (Uni. Bonn)

Material: [Slides](#) 

16:30 **Inclusive Cross Section Measurement in the All Hadronic Channel at the CMS Experiment 20'**

Speaker: Eike Schlieckau (Universität Hamburg)


Material: [Slides](#) 

16:50 **Single Lepton Top Quark Pair Cross Section at ATLAS 20'**

Speaker: Clemens Lange (DESY)


17:10 **NNLL threshold resummation for the total top-pair production cross section 15'**

Speaker: Christian Schwinn (Freiburg University)

Material: [Slides](#) 


17:25 **Cross section ratio $t\bar{t}/Z$ in ee and mumu channels with CMS 20'**

Speaker: Jan Kiesel (DESY)

Material: [Slides](#) 


17:45 **A Search for $t\bar{t}$ Resonances in the Lepton Plus Jets Channel with ATLAS 20'**

Speaker: Marcello Barisonzi (Wuppertal)

Material: [Slides](#) 


18:05 **Search for Z' to $t\bar{t}$ in high-mass muon+jets channel with CMS 20'**

Speaker: Thomas Peiffer (University of Karlsruhe)

Material: [Slides](#) 


18:25 **Single-Top-Quark Production: Towards Increased Theoretical Precision 15'**

Speaker: Philipp Kant (Humboldt-Universität zu Berlin)

Material: [Slides](#) 

Tomorrow's Agenda

Location: Hörsaal 2

- 09:00 **Measurement of the Top-Quark Mass from 2011 ATLAS Data using the Template Method** 20'
Speaker: Giorgio Cortiana (MPI fuer Physik, Muenchen)
- 09:20 **Top Mass Measurement in the Lepton+Jets Channel at the CMS Experiment** 20'
Speaker: Markus Seidel (UHH)
- 09:40 **Studies for a top quark mass measurement in the dilepton channel using the m_{T2} variable with ATLAS** 15'
Speaker: Kaven Yau (Uni-Bonn)
- 09:55 **NLO MSSM corrections to the Forward-Backward Asymmetry of Top Quark Pair Production at Hadron Colliders** 15'
Speaker: Stefan Berge (Universität Mainz)
- 10:10 **Charge asymmetry in top pair production with CMS** 20'
Speaker: Christian Boeser (Karlsruhe Institute of Technology)
Material: [Slides](#) 
- 10:30 **Coffe break** 20'
- 10:50 **Top quark pair production and decay in association with a hard jet** 15'
Speaker: Andreas Scharf (University of Wuerzburg)
- 11:05 **Normalized differential cross section measurements in the dilepton and l+jets channels with CMS** 25'
Speaker: Wolf Behrenhoff (DESY)
- 11:30 **Measurement of the inclusive $t\bar{t} + \gamma$ cross section at $\sqrt{s}=7$ TeV with the ATLAS detector** 20'
Speaker: Johannes Erdmann (Georg-August-Universität Göttingen, II. Physikalisches Institut)
Material: [Slides](#) 