# Welcome

Workshop on single-top production and fourth-generation quarks

Thomas Schörner-Sadenius (for the Analysis Centre)

Hamburg, 14 September 2009





## WELCOME ...

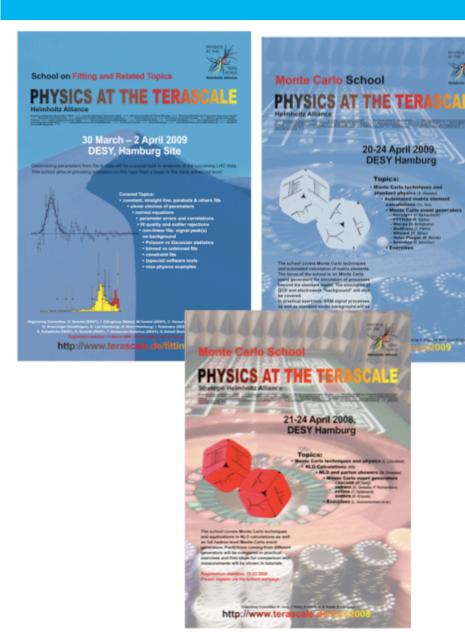
... to the workshop on "Single-top production and fourth-generation quarks"!

#### > Aims:

- Get to know the people working in the field
- Create new collaborations between different people and institutes, maybe even between the collaborations
- For the experimentalists: Get new input from the theory colleagues
- For the theorists: Find out, what the experimentalists need and want
- · ...
- Activity in the spirit of the Helmholtz Alliance "Physics at the Terascale" and of its Analysis Centre
  - Connecting people
  - Getting new impulses for the community
  - Focusing on analysis-related activities of general relevance.



# **ANALYSIS CENTRE: SCHOOLS AND WORKSHOPS**





http://www.tera

## **SINGLE-TOP WORKSHOP**

Helmholtz Alliance

#### PHYSICS AT THE TERASCALE



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#### Workshop on

# Single-top physics and fourth-generation quarks

14 - 15 September 2009 DESY, Hamburg Site

# Topics: Theoretical and experimental overview of single top and 4th generation quarks Single top analysis at ATLAS/CMS Searches for 4th generaton quarks at ATLAS and CMS Monte Carlo models Analysis techniques b-Tagging and trigger Please register via the workshop webpage. Organising Committee: Martin zur Nedden (Burlin), Thomas, Schömer-Sadenius (DESY), Wolfgang Wagner (Wuppertal)

https://indico.desy.de/conferenceDisplay.py?confld=2161

13:00	Single Top-Quark Production at the LHC- Wolfgang Wagner (Bergische Universität Wuppertal) (until 15:45)
13:00	Welcome - Thomas Schoerner-Sadenius (DESY)
13:15	Progress in single top predictions and simulations - Fablo Maltoni (University of Louvain)
14:25	Prosepcts of the measurement of single top quark production with ATLAS - Dominic Hirschbuehl (Bergische Universität Wuppertal)
15:05	Single Top Strategies and Potentials at CMS - Jeannine Wagner-Kuhr (Karlsruher Institut für Technologie (KIT))
15:45	Coffee Break
16:15	Parton Distribution Functions and Experimental Techniques- Peter Uwer (Humboldt- Universitaet zu Berlin) (until 19:05)
16:15	The b-Quark Distributions in the Nucleon - Sergey Alekhin
17:15	Angular correlations in t-channel single top production at the LHC - Patrick Motylinski (Universität Freiburg)
17:45	Single-top t-channel cross section studies at 200 pb^-1 for ATLAS - Gia Khoriauli (Universität Bonn)
18:10	Estimating the W+jets background in single-top selections by a fraction fitting method - Muhammad Alhroob ( <i>Uni-Bonn</i> )



12:00 Cingle Top Quark Bradustian at the LHC Waltages Wagner / Ba

## **ORGANISATIONAL ISSUES ++**

- Thanks to all contributors, to Wolfgang and Martin for the organisation, and to the Alliance for financial support.
- We have not planned for any social activity tonight. There is a number of restaurants around – I think sufficient participants know them and should be able to organise you if this is wanted.
- in case of questions or problems, don't hesitate to contact me (anacen@desy.de), or ask Wolfgang or Martin.
- Have fun and enjoy the workshop.

