

Session Program

20 July 2014 to 1 August 2014

HASCO Summer School 2014

Student seminars

University of Göttingen, HS 5
Physics Department II. Institute of Physics Friedrich-Hund-Platz 1 37077 Göttingen

Monday 21 July

11:30

12:30

Student seminars: Introduction + Seminar preparation

Session |

Location: University of Göttingen, HS 5, Physics Department II. Institute of Physics Friedrich-Hund-Platz 1 37077

Attendees: + All tutors, Maria Moreno Llacer

Tuesday 22 July

11:30

12:30

Student seminars: Seminar preparation

Session |

Location: University of Göttingen, HS 5, Physics Department II. Institute of Physics Friedrich-Hund-Platz 1 37077

Göttingen: Maria Moreno Llacer, + All tutors

Thursday 24 July

11:30

12:30

Student seminars: Seminar preparation

Session |

Location: University of Göttingen, HS 5, Physics Department II. Institute of Physics Friedrich-Hund-Platz 1 37077

Göttingen: Maria Moreno Llacer, + All tutors

Friday 25 July

14:00

Student seminars: Student presentations

Session |

Location: University of Göttingen, HS 5, Physics Department II. Institute of Physics Friedrich-Hund-Platz 1 37077

Contact: + All tutors, Maria Moreno Llacer

14:00–14:20

Team 1: Measurement of $B_s \rightarrow \mu\mu$ and its impact on new physics

Speakers

Ece Akilli, Johanna Amlacher

14:20–14:40

Team 2: Measurement of dijet cross sections in pp collisions at 7 TeV centre-of-mass energy using the ATLAS

Speakers

George Barnes, Guido Andreassi

14:40–15:00

Team 3: Design, large area production and quality assurance for the ATLAS IBL pixel detector upgrade

Speakers

Nico Battelli, Thomas Bendall

15:00–15:20

Team 4: Intercalibration of the longitudinal segments of a calorimeter system

Speakers

Alessandra Betti, Julien Beyer

15:20–15:40

Team 5: Dynamics of isolated-photon plus jet production in pp collision at $\sqrt{s} = 7$ TeV with the ATLAS detector

Speakers

Callum Brodie, Lisa Borgonovi

15:40–16:00

Team 6: Observations of the failure of conservation of Parity and Charge Conjugation in meson decays -the magnetic moment of the free muon-

Speakers

Davide Vaccaro, Stéphanie Bron

16:00

Monday 28 July

16:30

Student seminars: Student presentations

Session |

Location: University of Göttingen, HS 5, Physics Department II. Institute of Physics Friedrich-Hund-Platz 1 37077

Contact: + All tutors, Maria Moreno Llacer

16:30–16:50

Team 7: Search for the Standard Model Higgs boson produced in association with top quarks and decaying into $b\bar{b}$ in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector at the LHC

Speakers

Lucrezia Stella Bruni, Nicolas Bulté

16:50–17:10

Team 21: Measurement of the mass difference between top and anti-top quarks in pp collisions at $\sqrt{s}=7$ TeV using the ATLAS detector

Speakers

Hans Joos, Marina Lafarga Magro

17:10–17:30

Team 9: Muon reconstruction efficiency and momentum resolution of the ATLAS experiment in proton-proton collisions at $\sqrt{s}=7$ TeV in 2010

Speakers

Marco Cipriani, Rui Chen

17:30–17:50

Team 10: Quantifying the performance of jet definitions

Speakers

Ana Rosario Cueto Gomez, Timo Dreyer

17:50–18:10

Team 11: Plotting differences between data and expectation

Speakers

Laura Zani, RICCARDO DI MARIA

18:10–18:30

Team 12: Evidence for Top Quark Production in ppbar Collisions at $\sqrt{s}=1.8$ TeV

Speakers

Andreas Ekstedt, Jannik Geisen

18:30

Tuesday 29 July

16:30

Student seminars: Student seminars

Session |

Location: University of Göttingen, HS 5, Physics Department II. Institute of Physics Friedrich-Hund-Platz 1 37077

Coordinators: Maria Moreno Llacer, + All tutors

16:30–16:50

Team 13: A search for $t\bar{t}$ resonances in the lepton plus jets final state with ATLAS using 4.7 fb^{-1} of pp collisions at $\sqrt{s}=7 \text{ TeV}$

Speakers

Gianluca Filaci, Raquel Fernández Martín

16:50–17:10

Team 14: Measurements of Four-Lepton Production at the Z Resonance in pp Collisions with ATLAS

Speakers

Giulio Tiziano Forcolin, Marco Frassetto

17:10–17:30

Team 15: Search for the lepton flavor violating decay $Z \rightarrow e\mu\nu$ in pp collisions at $\sqrt{s}=8 \text{ TeV}$ with the ATLAS detector

Speakers

Alexandro Fulco, Pierre Fromholz

17:30–17:50

Team 16: Measurement of inclusive jet and dijet production in pp collisions at $\sqrt{s}=7 \text{ TeV}$ using the ATLAS detector

Speakers

Eduardo Garcia-Valdecasas Tenreiro, Veronica Fabiani

17:50–18:10

Team 41: oncepts for fast large Monte Carlo production for the ATLAS experiment

Speaker

Max Robinson

18:10–18:30

Team 18: Top quark charge asymmetry and forward-backward asymmetry

Speakers

Jonas Haldemann, Marco Guarguaglini

18:30

Wednesday 30 July

16:30

Student seminars: Student presentations

Session |

Location: University of Göttingen, HS 5, Physics Department II. Institute of Physics Friedrich-Hund-Platz 1 37077

Contact: + All tutors, Maria Moreno Llacer

16:30–16:50

Team 19: Measurements of the $t\bar{t}$ charge asymmetry using the dilepton decay channel in pp collisions at $\sqrt{s} = 7$ TeV

Speakers

Jonas Heinze, Juraj Hasik

16:50–17:10

Team 20: Search for new phenomena in the dijet mass distribution using pp collision data at $\sqrt{s}=8$ TeV with the ATLAS detector

Speakers

José Luis Huerta Fernández, Michi Hostettler

17:10–17:30

Team 8: Measurement of $B \rightarrow D^* \tau \nu$ and its impact on the 2 Higgs Doublet Model

Speakers

Anja Butter, Sergio Calvente Lopez

17:30–17:50

Team 22: Data mining and knowledge discovery

Speakers

Olov Junker, Shahzeb Kamal

17:50–18:10

Team 23: Probably a discovery: bad mathematics means rough scientific communication

Speakers

Georgios Kassaras, Zuzana Kucerova

18:30

Thursday 31 July

16:30

Student seminars: Student presentations

Session |

Location: University of Göttingen, HS 5, Physics Department II. Institute of Physics Friedrich-Hund-Platz 1 37077

Co-organisers: + All tutors, Maria Moreno Llacer

16:30–16:50

Team 24: Search for direct production of charginos, neutralinos and sleptons in final states with two leptons and MET in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector

Speakers

Neel Mackinnon, Oliver Majersky

16:50–17:10

Team 25: Evidence for Higgs boson decays to the tautau final state with the ATLAS detector

Speakers

Augustinas Malinauskas, David Masip

17:10–17:30

Team 26: Direct measurement of the total decay width of the top quark

Speakers

Federico Massa, Gvantsa Mchedlidze

17:30–17:50

Team 27: Measuring masses of semi-invisibly decaying particles pair produced at hadron colliders

Speakers

Alberto Merchante Gonzalez, Garrett Merz

17:50–18:10

Team 28: Measurement of the $t\bar{t}$ production cross-section using $e\mu$ events with b-tagged jets in pp collisions at $s\sqrt{=7}$ and 8 TeV with the ATLAS detector

Speakers

Maria Mironova, Michele Michetti

18:10–18:30

Team 29: The first few microseconds

Speakers

Jens Oltmanns, Steven Murphy

18:30

Friday 1 August

08:30

Student seminars: Student presentations

Session |

Location: University of Göttingen, HS 5, Physics Department II. Institute of Physics Friedrich-Hund-Platz 1 37077

Coordinators: Maria Moreno Llacer, + All tutors

08:30–08:50

Team 30: Data mining on crash simulation data

Speakers

Jonas Oorlynck, Ricky Nathvani

08:50–09:10

Team 31: Identification of hadronic decays of tau leptons

Speakers

Renato Pani, Wouter Van De Pontseele

09:10–09:30

Team 32: Search for dark matter in events with a Z boson and MET

Speakers

Geoffrey Penington, Natalie Pearson

09:30–09:50

Team 33: Search for dark matter in events with a hadronically decaying W or Z boson and MET

Speakers

Ishan Pokharel, Silvestre Romano

09:50–10:10

Team 34: The quest for the quark-gluon plasma

Speakers

Paolo Sabatini, Rocío Sáez Blázquez

10:10–10:30

Team 35: A introduction to MCMC for Machine Learning

Speakers

Laura Sinkunaite, Simon Schulte

10:30–10:50

Team 37: Measurements of normalized differential cross-sections for ttbar production in pp collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector

Speakers

Gioan Tatsi, Valeria Botta

10:50–11:10

Team 38: Measurements of spin correlation in top-antitop quark events from proton-proton collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector

Speakers

Masahiro Tanaka, Tobias Orthen

11:10–11:30

Team 39: The Large Hadron Collider

Speakers

Cosmin Visan, Devin Waas

11:30–11:50

Team 40: Search for CP violation in the Bs systems

Speakers

Felix Arnold Wiebe, Mohammad Wadud

11:50–12:10

Team 17: Bayesian inference in processing experimental data

Speakers

David Gordo, Nico GIANGIACOMI

12:10–12:30

Team 36: The light stop window

Speakers

Fabian Sohns, Frederic Van Assche

12:30