

Physik-Institut, Tag der offenen Tür 24. November 2017

Die Mitglieder des Physik-Instituts präsentieren aktuelle Forschungsergebnisse und Ideen für zukünftige Experimente und führen durch die Forschungslabore :

- Quantenmaterie und Phasenübergänge (H 86)
- Oberflächenphysik (H3 4)
- Gammastrahlen-Astronomie (G 38)
- Dunkle Materie (H 24)
- Biologische weiche Materie (K 87/K 89)

Programm:

15:00-16:15 Poster Session
16:15-17:30 Laborführungen
17:30-18:45 Poster Session
18:45-19:45 Laborführungen

die mechanische Werkstatt (G 84) mit dem neuen Hochleistungs-Fräs-Dreh-Bearbeitungszentrum kann in der ganzen Zeit besucht werden

ab 18 Uhr offerieren wir einen Aperó

Open day of the Physics Department November 24, 2017

Members of the Physics Department UZH present current research directions and ideas for future experiments and lead through the research laboratories on:

- quantum matter and phase transitions (H 86)
- surface physics (H 34)
- gamma ray astronomy (G 38)
- dark matter (H 24)
- biological soft matter (K 87/K 89)

Programme:

15:00-16:15 poster session
16:15-17:30 lab tours
17:30-18:45 poster session
18:45-19:45 lab tours

the mechanical workshop (G 84) with the new high-performance, milling - turning and machining centre may be visited all the time

an aperó will be provided at 18:00

List of posters

- 1) Giorgia Rauco (Group Florencia Canelli)
Search for single production of VLQs decaying to a bottom quark and a Higgs boson using the all-hadronic final state
- 2) Riccardo Riccardo Del Burgo (Group Florencia Canelli/Ben Kilminster)
The CMS phase I barrel pixel detector
- 3) Camilla Galloni (Group Ben Kilminster)
Search for heavy resonances decaying into a boson and a Higgs boson (WH, ZH, HH) in the $qq\ tt$ or $bb\ tt$ final states at CMS
- 4) Izaak Neutelings (Group Ben Kilminster)
Search for a low-mass ditau resonance at CMS
- 5) Thea Aarrestad (Group Ben Kilminster)
Lorentz Invariance Based Deep Neural Network for W-tagging
- 6) Korbinian Schweiger (Group Florencia Canelli)
Search for $ttH(bb)$ in the all hadronic channel at CMS
- 7) Massimiliano Grazzini (Group Thomas Gehrmann/Massimiliano Grazzini/Stefano Pozzorini)
Theory meets experiment at the LHC
- 8) Andrea Patteri (Group Gino Isidori)
On the tuning in the (mh,mt) plane: Standard Model criticality vs. High-scale SUSY
- 9) Sahil Puri (Group Christof Aegerter)
Establishment of lepidotrichia branching networks in Zebrafish caudal fins
- 10) Paule Dagenais (Group Christof Aegerter)
Hydrodynamic stress and bone growth regulation in the zebrafish caudal fin
- 11) Archana Malavalli (Group Christof Aegerter)
Structured Illumination behind Turbid Media
- 12) Lara Selvaggi (Group Christof Aegerter)
CAARMA: Computer Aided Ample Range Magnetic Apparatus
- 13) Mirco Ackermann (Group Christof Aegerter)
Phase and intensities of laser speckles
- 14) Julien Wulf (Group Laura Baudis)
MarmotX
- 15) Michael Miloradovic (Group Laura Baudis)
Unraveling the neutrino nature with the GERDA experiment
- 16) Chiara Capelli (Group Laura Baudis)
Measurement of liquid xenon response to lo-energy particle interactions with the Xurich II experiment
- 17) Shayne Reichard (Group Laura Baudis)
The Search for Dark Matter in XENON1T
- 18) Niels Zijlstra (Group Ben Schuler)
Microfluidics for single-molecule fluorescence spectroscopy
- 19) Pavel Kliuiev (Group Jürg Osterwalder)
Time-resolved photoemission: the laserlab@uzh
- 20) Wolf Dietrich-Zabka (Group Jürg Osterwalder)
Model systems for photoelectrochemical water splitting: A surface science approach
- 21) Aram Kostanyan (Group Jürg Osterwalder)
The magnetic properties of the smallest compass-endohedral metallofullerenes

- 22) Alexander Dätwyler (Group Nicola Serra)
Search for Hidden Particles (ShiP)
- 23) Marzia Bordone (Group Gino Isidori)
The flavour anomalies: Standard Model vs New Physics
- 24) Davide Lancieri (Group Nicola Serra)
Flavour Anomalies in $b \rightarrow sll$ Transitions at LHCb
- 25) Iaroslava Bezshyiko (Group Nicola Serra)
Evidence for Lepton Universality violation in semileptonic b -decays
- 26) Katharina Müller (Group Nicola Serra/Ueli Straumann)
LHCb measurements with electroweak bosons as probes of the proton structure
- 27) Michele Atzinei (Group Nicola Serra/Ueli Straumann))
Tracker Turicensis at LHCb
- 28) Marta Brzezinska (Group Titus Neupert)
Electronic properties of fractal lattices
- 29) Seulgi Ok (Group Titus Neupert)
Kondo Weyl semimetals
- 30) Kenny Choo (Group Titus Neupert)
Machine Learning in Condensed Matter Physics
- 31) Masafumi Horio (Group Johan Chang)
High-temperature superconductivity restrained by orbital hybridization
- 32) Arno Gadola (Group Ueli Straumann)
FlashCam: A Novel Cherenkov Telescope Camera with Continuous Signal Digitization
- 33) Lionel Philippoz (Group Philippe Jetzer)
Gravitational waves I
- 34) Lionel Philippoz (Group Philippe Jetzer)
Gravitational waves II
- 35) Philipp Denzel (Group Prasenjit Saha)
Unveiling Dark Matter through Gravitational Lensing
- 36) Daniel Destraz (Group Johan Chang/Andreas Schilling)
Superconducting fluctuations in a thin NbN film probed by the Hall effect
- 37) Lakshmi Das (Group Johan Chang)
Spin orbiton in Ca_2RuO_4 revealed by RIXS
- 38) Qiang Wang (Group (Andreas Schilling))
Photon Detection with Superconductor
- 39) Alsu Gazizulina (Group Andreas Schilling)
Single crystal growth and study of magnetic properties in the mixed system $\text{Ba}(3-x)\text{Sr}_x\text{Cr}_2\text{O}_8$
- 40) Xiaofu Zhang
Superconducting nanowire single X-ray photon based on WSi