

*Annual Workshop of the Kepler-Kolleg:  
Particles, Fields and Messengers of the Universe  
(September 28-30, 2015, Blaubeuren)*

## WORKSHOP PROGRAM

(OT)= Overview and Introductory talks, (ST) Short contributions; 45 min and 25 min (including 5 min discussion)

### Monday, September 28<sup>th</sup>

	Arrival	
12:30 – 13:30	Lunch / Coffee/Room Check in	
13:30 – 13:45	Welcome – <i>Rules of the Game</i>	Josef Jochum
Chair: K. Werner		
13:45 – 14:10	<i>Electroweak corrections: Why and How</i>	ST – Lukas Salfelder
14:10 – 14:35	<i>Neutralino and Chargino Pair Production</i>	ST – Matthias Kesenheimer
14:35 – 15:20	<i>Hamiltonian approach to QCD</i>	OT – Peter Vastag
15:20 – 15:45	<i>Graphene: The brane world</i>	ST- Ehsan Ebadati
15:45 – 15:55	<i>questions / discussions students only</i>	
15:55 - 16:15	Coffee Break	
Chair: H.Reinhard		
16:15 – 16:40	<i>The role of center vortices in the Coulomb gauge confinement scenario</i>	ST – Hannes Vogt
16:40 – 17:25	<i>Timing analysis with XMM-Newton</i>	OT – Cornelia Heinitz
17:25 – 17:50	<i>Unveiling the fueling environment of the accreting X-ray pulsar GX 304-1</i>	ST – Christian Malacaria
17:50 – 18:15	<i>Spectrum-luminosity dependence in accreting pulsars</i>	ST – Vadim Vybornov
18:15 – 18:25	<i>questions / discussions students only</i>	
18:30	Dinner	
19:30 – 20:30	<b>Biomedical imaging, technologies and applications</b>	<b>Prof. Bernd Pichler Preclinical Imaging and Radiopharmacy, Werner Siemens Imaging Center Universität Tübingen</b>

## Tuesday, September 29<sup>th</sup>

7:30 – 8:30	Breakfast	
Chair: W. Vogelsang		
8:30 – 9:15	<i>Perturbative QCD in a nutshell</i>	OT – Daniele Anderle
9:15 – 9:40	<i>Fitting Parton Distribution Functions</i>	ST- Martin Lambertsen
9:40 – 10:05	<i>Hadron fragmentation inside jets in hadronic collisions</i>	ST – Tom Kaufmann
10:05 – 10:30	<i>Single Inclusive Hadron Production</i>	ST – Patriz Hinderer
10:30 – 10:35	<i>questions / discussions students only</i>	
10:35 – 10:50	Coffee Break	
Chair: T. Lachenmaier		
10:50 – 11:15	<i>Development of Custom Wafer Prober for Silicon Sensors Characterization for CBM Experiment</i>	ST – Iaroslav Panasenko
11:15 – 11:40	<i>Status of the Rosenau neutron source</i>	ST – Eduard Friske
11:40 – 12:25	<i>Search for the Neutrinoless Double Beta Decay with the GERDA Experiment</i>	OT – Ann Katrin Schütz
12:25 – 12:30	<i>questions / discussions students only</i>	
<b>12:30 – 13:00 !!!</b>	Lunch / Coffee	
13:00 – 13:30	<i>Walk to Blautopf =&gt; Bähnle starts there</i>	
<b>13:30 – 16:00</b>	<b>Blautopf Bähnle Höhlen Tour</b>	
Chair: T. Gutsche		
16:30 – 16:55	<i>Turbulence and dust in accretion discs</i>	ST – Moritz Stoll
16:55 – 17:20	<i>The Boundary Layer in non-magnetic accreting Objects</i>	ST – Marius Hertfelder
17:20 – 18:05	<i>The CRESST-II Dark Matter Experiment</i>	OT – Büsra Cebeci
18:05 – 18:15	<i>questions / discussions students only</i>	
18:30	Dinner	
<b>19:30 – 20:30</b>	<b>Sicherheit in der IT</b>	<b>Sebastian Schreiber / SYSS</b>

**Wednesday, September 30<sup>th</sup>**

7:30 – 8:30	Breakfast	
Chair: J.Jochum		
8:30 – 9:15	<i>Gamma-Ray Astronomy with Imaging Air Cherenkov Telescopes</i>	OT - Daniel Gottschall
9:15 – 9:40	<i>Search for new supernova remnant shells with H.E.S.S</i>	ST – Massimo Capasso
9:40 – 10:05	<i>FlashCam, a fully digital camera for the Cherenkov Telescope Array</i>	ST – Felix Eisenkolb
10:05 – 10:15	<i>questions / discussions students only</i>	
10:15 – 10:30	Coffee Break	
Chair: R. Schmidt		
10:30 – 11:15	<i>Crust-core-coupling in oscillating neutron stars</i>	ST- Tanja Schlemm
11:15 – 11:40	<i>Gravitational wave astronomy</i>	OT - Kai Schwenzer
11:40 – 12:25	<i>Echo Experiment</i>	OT – Stephan Scholl
12:25 – 12:30	<i>questions / discussions students only</i>	
12:30 – 13:30	Lunch / Coffee	
13:30 – 14:15	<i>Experiments on Neutrino Oscillations in Tübingen</i>	OT – Alexander Tietzsch
14:15 – 15:00	Votes, Prizes, Farewell	

**END**