

*Annual Workshop of the Kepler-Kolleg:  
Particles, Fields and Messengers of the Universe*  
(September 30 – October 2, 2019, Kloster Obermarchtal)  
(Bildungshaus Kloster Obermarchtal, Klosteranlage 2/1, 89611 Obermarchtal)

## WORKSHOP PROGRAM

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

### Monday, September 30<sup>th</sup>

	Arrival	
12:30 – 13:30	Lunch / Coffee/Room Check in	
13:30 – 13:45	Josef Jochum	Welcome – Rules of the game
Chair: Werner Vogelsang		
13:45 – 14:30	<b>OT: Neutrinoloser doppelter betazerfall</b>	Andy Zschocke
14:30 – 15:15	<b>OT: Contribution of soft protons to the Athena background</b>	Roberta Amato
15:15 – 15:40	<b>ST: ATHENA frame processor</b>	Samuel Pliego
15:40– 15:50	<i>questions, discussions – students only</i>	
15:50 – 16:35	Coffee Break	
Chair: Barbara Jäger		
16:35 – 17:00	<b>ST: Modeling the spectral evolution of the X-ray binary 4U1728-34</b>	Fabio Ribbeni
17:00 – 17:45	<b>OT: LHC physics and dark matter</b>	Christoph Borschensky
17:45 – 18:10	<b>ST: Gruppe Jäger</b>	Johannes Scheller
18:10 – 18:20	<i>questions, discussions – students only</i>	
18:20	Dinner	
19:30 – 20:30	<b>Working in industry as a physicist</b>	Johannes Ruoff

## Tuesday, October 1st

7:30 – 8:30	Breakfast	
Chair: Josef Jochum		
8:30 – 9:15	<b>OT: Gravitational radiation from neutron stars</b>	Arthur Georg Suvorov
9:15 – 10:00	<b>OT: THESEUS</b>	Paul Hedderman
10:00 – 10:10	<i>questions, discussions – students only</i>	
10:10 – 10:55	Coffee Break	
Chair: Tobias Lachenmaier		
10:55 – 11:20	<b>ST: Calibration of the new PMT-based camera for the HESS experiment</b>	Manfredi Scalici
11:20 – 11:45	<b>ST: Centroiding algorithms for a UV MCP Detector</b>	Lars Hanke
11:45 – 12:10	<b>ST: Heavy metal in hot evolved stars</b>	Lisa Löbbling
12:10 – 12:20	<i>questions, discussions – students only</i>	
12:30 – 13:30	Lunch / Coffee	
Chair: Thomas Gutsche		
13:30 – 14:15	<b>OT: Stellar activity cycles: X-ray monitoring observations of young solar-like stars</b>	Martina Coffaro
14:15 – 15:05	<b>ST: Exploration of spin-down and dynamo in M dwarf stars</b>	Enza Magaudda
15:05 – 15:20	<i>questions, discussions – students only</i>	
<b>16:00 – 18:00</b>	<b>Klosterbrauerei Zwiefalten</b> Hauptstr. 24, 88529 Zwiefalten Treffpunkt: Brauereihof	<b>Besichtigung / Visitation</b>
18:30 – 19:30	Dinner	

## Wednesday, October 2nd

7:30 – 8:30	Breakfast	
Chair: Beate Stelzer		
8:30 – 9:15	<b>OT: Juno physics and PMT qualification tests</b>	Tobias Sterr
9:15 – 9:40	<b>ST: Implications of a fine structure in the reactor neutrino spectrum for JUNO</b>	Tobias Heinz
9:40 – 10:05	<b>ST: OSIRIS - a monitor for radiopurity of the liquid scintillator of JUNO</b>	Axel Müller
10:05 – 10:15	<i>questions, discussions – students only</i>	
10:15 – 11:00	Coffee Break	
Chair: Klaus Werner		
11:00 – 11:45	<b>OT: Planet formation in disks</b>	Thomas Rometsch
11:45 – 12:10	<b>ST: Planet spiral heating in protoplanetary disks</b>	Alex Ziampras
12:10 – 12:20	<i>questions, discussions – students only</i>	
12:30 – 13:30	<b>Lunch</b>	
Chair: Tobias Lachenmaier		
13:30 – 13:55	<b>ST: Planet migration in circumbinary discs</b>	Anna Penzlin
13:55 – 14:40	<b>OT: ALICE</b>	Martin Schmidt
14:40 – 14:50	<i>questions, discussions – students only</i>	
14:50 – 16:00	<i>Discussions - Prices</i>	

**END**