

Program

Tuesday, October 23, 2018

16:00 – 21:00 Registration

18:00 *BUFFET SUPPER and get-together*

Wednesday, October 24, 2018

08:00 – 09:00 *BREAKFAST*

09:00 – 09:05 Scientific organizers **Welcome words**

09:05 – 09:20 Stefan Jorda **About the Wilhelm and Else Heraeus Foundation**

Introduction and Neutron Lifetime

09:20 – 10:20 Dirk Dubbers **The role of neutrons in particle physics and cosmology**

10:20 – 10:50 *COFFEE BREAK*

10:50– 11:50 Chen-Yu Liu **A modern measurement of the neutron lifetime using ultracold neutrons in a magneto-gravitational trap**

Electric Dipole Moment

11:50 – 12:50 Vincenzo Cirigliano **Electric dipole moments as probes of new physics**

12:50 *LUNCH*

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Wednesday, October 24, 2018

Electric Dipole Moment

14:30 – 15:30	Stéphanie Roccia	Efforts towards the measurement of the neutron EDM at PSI
15:30 – 16:30	Peter Fierlinger	Next generation experiments to measure the neutron electric dipole moment of the neutron
16:30 – 17:00	<i>COFFEE BREAK</i>	

Quantum Interference & Gravitational Bound States

17:00 – 17:45	René Sedmik	The quantum bouncing ball gravity spectrometer qBounce
17:45 – 18:30	Stephan Sponar	Weak values and weak measurements studied in neutron interferometry
19:00	<i>DINNER</i>	

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Thursday, October 25, 2018

08:00 – 09:00 *BREAKFAST*

Correlation Coefficients

09:00 – 10:00 Martín
González-Alonso **New physics searches in nuclear and
neutron β -decay**

10 :00 – 11:00 Leah Broussard **Neutron decay correlations program in
the US**

11:00 – 11:30 *COFFEE BREAK*

11:30 – 12:30 Heiko Saul **Correlation coefficients in neutron beta
decay**

12:30 – 12:40 *Conference Photo (in the front of the lecture hall)*

12:40 *LUNCH*

14:00 – 15:00 **Poster Flash**

15:00 – 17:00 **Poster Session and COFFEE**

Lattice QCD

17:00 – 18:00 Evan Berkowitz **The nucleon axial coupling from QCD**

18:30 *HERAEUS DINNER*
(social event with cold & warm buffet with complimentary drinks)

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Friday, October 26, 2018

08:00 *BREAKFAST*

Heavy Flavour

09:00 – 10:00 David Straub **New physics searches with heavy flavours**

10 :00 – 11:00 Stephanie Hansmann-Menzemer **Experimental highlights on heavy flavour physics**

11:00 – 11:30 *COFFEE BREAK*

Particle Physics at ESS

11:30 – 12:15 Torsten Soldner **Opportunities for particle physics with neutrons at the European spallation source**

12:15 – 12:30 Scientific organizers **Closing words**

12:30 *LUNCH*

End of the seminar and departure

NO DINNER for participants leaving on Saturday morning