

Program

Monday, 29 March 2021

10:00 – 10:05 Jörg Pretz **Welcome Words**

Session chair: Hans Ströher

10:05 – 10:35 Paolo Lenisa **Strategy**

10:35 – 11:05 Christian Carli **Systematic errors analysis for the
charged particle electric dipole
moment measurements**

11:05 – 11:35 *COFFEE BREAK*

11:35 – 12:05 Richard Talman **Lattice Design for a Prototype
Proton EDM Storage Ring**

12:05 – 12:50 Yannis Semertzidis **Storage-ring proton EDM with the
hybrid, symmetric lattice**

12:50 – 13:50 *LUNCH BREAK*

13:50 – 14:05 Jörg Pretz **Introduction**

14:05 – 14:20 Stefan Jorda **About the Wilhelm and Else Heraeus
Foundation**

Session chair: Andreas Wirzba

14:20 – 15:15 Susan Gardner **CP Violation: Past, Present, and
Future**

15:15 – 16:00 Kolya Nikolaev **General Relativity Effects in Storage
Ring Searches for EDM**

16:00 – 16:45 Rob Timmermans **EDMs in EFT frameworks**

16:45 – 17:15 *COFFEE BREAK*

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Session chair: Andreas Wirzba

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| 17:15 – 18:00 | Rajan Gupta | Contributions of theta, quark and chromo CP violating operators to the neutron/proton EDM |
| 18:00 – 18:45 | Peter Graham | Direct Detection of Axion Dark Matter and Dark Energy |
| 18:45 – 19:30 | Yuriy Uzikov | Search for time-reversal invariance violation in double polarized pd scattering |

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Tuesday, 30 March 2021

Session chair: Paolo Lenisa

10:00 – 10:30	James Gooding	A silicon based polarimeter for pEDM searches
10:30 – 11:00	Falastine Abusaif	Rogowski beam position monitors
11:00 – 11:30	Jamal Slim	Spin Manipulation at COSY
11:30 – 12:00	<i>COFFEE BREAK</i>	
12:00 – 12:30	Jan Borburgh	Challenges for the EDM main ring electric field elements
12:30 – 13:00	Helmut Soltner	Design Considerations for the EDM Prototype Ring
13:00 – 14:00	<i>LUNCH BREAK</i>	

Session chair: Mike Lamont

14:00 – 14:45	Klaus Kirch	Electric Dipole Moment search experiments
14:45 – 15:15	Vera Shmakova	Progress toward a direct measurement of the deuteron Electric Dipole Moment at COSY
15:15 – 15:45	Swathi Karanth	New method to search for axion-like particles demonstrated with polarized beam at the COSY storage ring
15:45 – 16:15	Rebecca Chislett	The new g-2 experiment at Fermilab
16:15 – 16:45	<i>COFFEE BREAK</i>	

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Tuesday, 30 March 2021

Session chair: Mike Lamont

16:45 – 17:15	Ola Wronska	Long Spin Coherence Times and How to Find Them
17:15 – 17:45	Philipp Schmidt-Wellenburg	Search for the muon EDM using the frozen-spin technique
17:45 – 18:15	Manfred Grieser	The Cryogenic Storage Ring CSR

Program

Wednesday, 31 March 2021

Session chair: Jörg Pretz

10:00 – 10:30	Tim Wagner	Beam based alignment at the Cooler Synchrotron (COSY) and beyond
10:30 – 11:00	Vera Poncza	Simulation model improvements at COSY using the LOCO algorithm
11:00 – 11:30	Andreas Lehrach	Beam and Spin Tracking
11:30 – 12:00	<i>COFFEE BREAK</i>	
12:00 – 12:30	Andras Laszlo	On quantitative predictions for gravitational systematics in frozen spin storage rings
12:30 – 13:00	Peter Porshnev	Predicting outcomes of electric dipole and magnetic moment experiments
13:00 – 14:00	<i>LUNCH BREAK</i>	
14:00 – 14:30	Alexander Silenko	Extraordinary enhancement of sensitivity of a search for axion-induced EDMs of relativistic particles and nuclei in storage rings
14:30 – 15:00	Michael Lamont	Next steps, where do we go from here?

Session chair: Frank Rathmann

15:00 – 15:30	Discussion	
15:30 – 15:45	Scientific organizers	Closing remarks

End of seminar