

Monday Apr 11	Speaker	nEDM search, related topics and instrumentation	Abstract ID
		Title of talk (5 min discussion included)	
09:00 - 09:10	Vice-president JGU Mainz (W. Hofmeister)		
09:10 - 09:20	Workshop Organizer (Werner Heil)		
09:20 - 10:00	Michael Ramsey-Musolf, UMass Amherst	Electric dipole moments: a look beyond the Standard Model	61
10:00 - 10:40	Klaus Kirch, ETH Zurich/PSI Villigen	Searches for the EDM of the neutron	67
10:40 - 11:00	Coffee break		
11:00 - 11:25	Rajan Gupta, LANL Los Alamos	Nucleon charges and probing novel CP violation via neutron EDM	70
11:25 - 11:50	Vira Bondar, PSI Villigen	Search for the EDM of the neutron at PSI	40
11:50 - 12:15	Takeyasu Ito, LANL Los Alamos	New effort to develop an nEDM experiment at LANL	38
12:15 - 14:00	Lunch		
14:00 - 14:25	Anatoly Serebrov, PNPI Gatchina	Present status and future prospects of nEDM experiment of PNPI-ILL-PTI collaboration	71
14:25 - 14:50	Simon Slutsky, Caltech Pasadena	Cryogenic magnetic shielding R&D for nEDM at SNS	19
14:50 - 15:15	Zhaowen Tang, LANL Los Alamos	An apparatus for studying UCN storage time at cryogenic temperatures for the SNS nEDM experiment	37
15:15 - 15:35	Kent Leung, NCSU	Measurement cells of the SNS nEDM experiment	49
15:35 - 15:55	Elise Wursten, KU Leuven	The new magnetic field optimisation procedure of the nEDM experiment at PSI	30
15:55 - 16:20	Geza Zsigmond, PSI Villigen	Simulations for the nEDM@PSI project - The MCUCN and STARucn codes	42
16:20 - 16:50	Coffee break		
16:50 - 17:15	Robert Golub, NCSU	Studies of perturbations of Larmor precession	69
17:15 - 17:35	Georg Bison, PSI Villigen	Magnetometry for next generation nEDM experiments	46
17:35 - 17:55	Malgorzata Kasprzak, KU Leuven	High sensitivity Cs sensors for magnetic field measurements in the nEDM experiment	36
17:55 - 18:15	Peter Koss, KU Leuven	A Potassium magnetometry based current source for nEDM	18
18:15 - 18:35	Fabian Allmendinger, Univ. Heidelberg	Precise measurements and shimming of magnetic field gradients in the low field regime	72
18:35 - 19:30	Dinner		

Tuesday Apr 12	Speaker	n-lifetime, related topics and instrumentation	
		Title of talk (5 min discussion included)	Abstract ID
09:00 - 09:40	Laura Salvati, Univ. Rome	Cosmological constraints on the neutron lifetime	52
09:40 - 10:20	Anatoly Serebrov, PNPI Gatchina	Review of neutron lifetime experiments	24
10:20 - 10:50	Coffee break		
10:50 - 11:30	Chen-Yu Liu, Indiana Univ.	UCNtau: A precision neutron lifetime measurement using a magneto-gravitational trap	56
11:30 - 12:00	Victor Ezhov, PNPI Gatchina	Status of neutron lifetime experiment UCN magneto-gravitational trap made of permanent magnets	58
12:00 - 12:30	Marcus Beck, Univ. Mainz	The neutron lifetime experiment τ SPECT	13
12:30 - 14:00	Lunch		
14:00 - 14:25	Wolfgang Schreyer, TU Munich	The neutron lifetime experiment PENeLOPE	21
14:25 - 14:50	Dominic Gaisbauer, TU Munich	Self-triggering readout system for the neutron lifetime experiment PENeLOPE	15
14:50 - 15:15	Sei Ieki, Univ. Tokyo	Measurement of neutron lifetime with pulsed cold neutron beams at J-PARC: Experimental apparatus and method	32
15:15 - 15:40	Naoyuki Sumi, Univ. Kyushu	Measurement of neutron lifetime with pulsed cold neutron beams at J-PARC: Analysis and result	34
15:40 - 16:05	Kevin Hickerson, Caltech Pasadena	Leptoquarks and other new flavor violating currents in the lifetime and beta decay spectrum of UCN	41
16:05 - 16:35	Coffee break		
16:35 - 17:00	Oliver Zimmer, ILL Grenoble	Neutron conversion and cascaded cooling in paramagnetic systems for a high-flux source of VCN	64
17:00 - 17:25	Yuri Pokotilovski, JINR Dubna	The experimental density of states and UCN loss coefficients of fluoropolymers at low temperatures	35
17:25 - 17:45	Christian Düsing, Univ. Mainz	Investigation of perfluorinated methylene oxide oligomers (PFMO) for UCN storage	65
17:45 - 18:10	Thorsten Lauer, Movatec GmbH Eching	Advanced UCN hardware for future experiments with ultracold neutrons	47
18:10 - 18:35	Naotaka Naganawa, Univ. Nagoya	Development of high position resolution neutron detector using fine-grained nuclear emulsion	66
18:35 - 19:30	Dinner		

Wednesday Apr 13	Speaker	Quantum bouncing, mirror matter, exotic couplings	Abstract ID
		Title of talk (5 min discussion included)	
09:00 - 09:40	Hartmut Abele, TU Vienna	qBOUNCE - realization of a quantum bouncing ball gravity spectrometer	60
09:40 - 10:20	Zurab Berezhiani, Univ. L'Aquila	Neutrons as a window to parallel world	55
10:20 - 10:40	Coffee break		
10:40 - 11:05	Zurab Berezhiani, Univ. L'Aquila	Neutron-mirror neutron regeneration experiment	59
11:05 - 11:30	Alexey Fomin, PNPI Gatchina	Experiment on search for neutron-antineutron oscillations using a projected UCN source at the WWR-M reactor	23
11:30 - 11:55	Alexander Frank, JINR Dubna	Tests of the weak equivalence principle with UCNs	26
11:55 - 12:20	Christian Siemensen , Univ. Mainz	The neutron charge experiment in Mainz	43
12:20 - 12:40	German Kulin, JINR Dubna	Diffraction of UCN by a moving grating and TOF Fourier spectrometry as the basis for gravity experiments	33
12:40 - 14:00	Lunch		
14:00-19:00	Visit Mainz and TRIGA reactor		
19:00	Dinner (social event)		

Thursday Apr 14	Speaker	Neutron decay correlations, UCN sources (part I)	Abstract ID
		Title of talk (5 min discussion included)	
09:00 - 09:40	Dirk Dubbers, Univ. Heidelberg	Neutron decay correlations in the standard model and beyond	53
09:40 - 10:20	Leah Broussard, LANL Los Alamos	Physics beyond the standard model from neutron beta decay correlations at LANSCE	39
10:20 - 10:50	Coffee break		
10:50 - 11:30	Martin Gonzalez-Alonso, IPN Lyon	Probing non-standard charged-current interactions: from UCN to the LHC	54
11:30 - 12:00	Bastian Märkisch , TU Munich	The proton electron radiation channel experiment (PERC)	51
12:00 - 12:30	Alexander Wunderle, Univ. Mainz	The aSPECT experiment - an overview and latest results	44
12:30 - 14:00	Lunch		
14:00 - 14:25	Gertrud Konrad , SMI Vienna	NoMoS: Beyond the standard model physics in neutron decay	48
14:25 - 14:50	Kazimierz Bodek, Univ. Krakow	Impact of the transverse electron polarization related neutron beta decay correlations in the LHC era	20
14:50 - 15:15	Bastian Märkisch , TU Munich	A cold neutron beam facility for particle physics at the ESS	50
15:15 - 15:55	Albert Young , NCSU	A brief overview of ultracold neutron source development and some points of personal interest	68
15:55 - 16:25	Coffee break		
16:25 - 16:50	Peter Geltenbort , ILL Grenoble	The ultracold and very cold neutron facility PF2 at ILL in Grenoble, France	22
16:50 - 17:15	Bernhard Lauss , PSI Villigen	The ultracold neutron facility at the Paul Scherrer Institute	16
17:15 - 17:35	Dieter Ries , PSI Villigen	Sources for ultracold neutrons: a world-wide comparison	73
17:35 - 18:00	Robert Pattie , LANL Los Alamos	Upgrades to the ultracold neutron source at Los Alamos Neutron Science Center	45
18:00 - 18:25	Iurii Sobolev , Univ. Mainz	Status of the UCN source at beamport D of the research reactor TRIGA Mainz	62
18:25 - 19:30	Dinner		

Friday Apr 15	Speaker	UCN sources (part II)	Abstract ID
		Title of talk (5 min discussion included)	
09:00 - 09:30	Yasuhiro Masuda, KEK	Neutron EDM Measurement with Spallation UCN Source of He-II	74
09:30 - 10:00	Ekaterina Korobkina, NCSU	Design and results of cryogenic commissioning tests of the PULSTAR UCN source	31
10:00 - 10:30	Andreas Frei, TU Munich	Ultracold neutrons at the FRM II	27
10:30 - 10:50	Coffee break		
10:50 - 11:15	Vitaliy Lyamkin, PNPI Gatchina	UCN source with superfluid helium at WWR-M reactor	25
11:15 - 11:40	Stephan Wlokka, TU Munich	Irradiation effects on solid Deuterium	29
11:40 - 12:05	Alexander Hollering , TU Munich	A new ultracold neutron source at the TRIGA Mainz	28
12:05 - 12:15	Marcus Beck , Univ. Mainz	Concluding remarks	
12:15 - 14:00	Lunch		
END OF WORKSHOP			