



Workshop at the
European Center for Theoretical Studies in Nuclear Physics and related Areas
EDM Searches at Storage Rings
 October 1 – October 5, 2012

	Monday 1.10.2012	Tuesday 2.10.2012	Wednesday 3.10.2012	Thursday 4.10.2012	Friday 5.10.2012
8.30 – 9.00	Registration Chair: F. Rathmann	Registration Chair: M. Bai	Registration Chair: W. Marciano	Registration Chair: A. Wirzba	Registration Chair: K. Nikolaev
9.00 – 10.30	<i>Opening remarks (10')</i> Hans Ströher (Jülich)	<i>Baryogenesis, CP violation, and EDMs (40')</i> Michael Ramsey-Musolf (Wisconsin)	<i>New insights in the theory of the nucleon EDM (40')</i> Ulf Meißner (Bonn)	<i>Searching for physics beyond the Standard Model through the dipole interaction (40')</i> Bradley Lee Roberts (Boston)	<i>EDM TRIμP at KVI (40')</i> Klaus Jungmann (KVI Groningen)
	<i>Theory of permanent EDMs (40')</i> William Marciano (BNL)	<i>nEDM at PSI (30')</i> Philipp Schmidt-Wellenburg (PSI)	<i>Ultra-low energy storage ring at FLAIR (30')</i> Carsten Welsch (Cockcroft)	<i>Time reversal symmetry violation in the nucleon and light nuclei (30')</i> Bira van Kolck (Tucson)	<i>EDMs for light nuclei in EFT (30')</i> Jan Bsaisou (Jülich)
	<i>The BNL pEDM experiment (30')</i> Yannis Semertzidis (BNL)	<i>Development of deflector elements at Jülich (20')</i> Ralf Gebel (Jülich)	<i>Muon EDM at PSI (20')</i> Gerco Onderwater (KVI Groningen)	<i>Electron EDM in an electrostatic storage ring (20')</i> David Kawall (Massachusetts)	<i>EDM Measurement and Gravity (20')</i> Yuri Orlov (Cornell)
10.30 – 11.00	Coffee	Coffee	Coffee	Coffee	Coffee
11.00 – 12.30	<i>ACME (30')</i> Gerald Gabrielse (Harvard)	<i>Perspectives for storage ring EDM searches (30')</i> Andreas Lehrach (Jülich)	<i>TRIV at COSY (30')</i> Dieter Eversheim (Bonn)	<i>Spin coherence time analytical estimations (30')</i> Yuri Orlov (Cornell)	<i>Raytracing based Spin Tracking (30')</i> Francois Meot (BNL)
	<i>Electrostatic traps for dipolar molecules (30')</i> Ivan Koop (Budker)	<i>New developments: EDM in the standard model (30')</i> Nikolai Uraltsev (Siegen)	<i>Lattice calculation of the nucleon EDM (30')</i> Taku Izubuchi (BNL)	<i>Beam performance for pEDM at BNL (30')</i> Alexei Fedotov (BNL)	<i>Electric dipole and magnetic quadrupole form factors for light Nuclei (30')</i> Jordy de Vries (KVI Groningen)
	<i>EDM storage ring lattices (30')</i> Richard Talman (Cornell)	<i>Direct EDM search for charged hadrons at COSY (30')</i> Frank Rathmann (Jülich)	<i>Spin tracking for EDM searches in storage rings (30')</i> Martin Berz (Michigan)	<i>Analytical estimations of an all-electric EDM ring (30')</i> Mario Conte (Genoa)	<i>Electrostatic lattice with alternating spin aberration (30')</i> Yuri Senichev (Jülich)
12.30 – 14.30	Lunch Chair: H. Ströher	Lunch Chair: A. Lehrach	Lunch Chair: R. Gebel	Lunch Chair: A. Kacharava	Lunch Chair: Y. Semertzidis
14.30 – 16.00	<i>Polarimetry for storage ring EDM searches (30')</i> Ed Stephenson (Indiana)	<i>EDM searches in deformed nuclei (30')</i> Lorenz Willmann (KVI Groningen)	<i>The Search for a neutron EDM at the SNS (30')</i> Robert Golub (NC State)	<i>Progress toward a d_e Measurement using Cs and Rb Atoms in Optical Lattices (30')</i> David Weiss (Penn State)	<i>Development of 3D polarimeters for storage ring EDM searches (20')</i> David Chiladze (Jülich)
	<i>The nucleon EDM on the lattice (30')</i> Gerrit Schierholz (DESY)	<i>nEDM at ILL (30')</i> M. George (Sussex)	<i>Spin tracking for storage rings (30')</i> Mei Bai (BNL)	<i>COSY infinity for EDM searches at COSY (30')</i> Bernd Lorentz (Jülich)	<i>Systematic uncertainties for srEDM experiments (30')</i> William Morse (BNL)
	<i>Introduction to spin-orbit tracking (30')</i> Desmond Barber (DESY)	<i>New insights into spin coherence time (30')</i> Kolya Nikolaev (Jülich)	<i>The electron EDM in YbF (30')</i> Ben Sauer (Imperial)	<i>Spin tracking simulations (20')</i> Alfredo Luccio (BNL)	<i>Theory Outlook (15')</i> Andreas Wirzba (Jülich) <i>Experimental Outlook (15')</i> Hans Ströher (Jülich)
16.00 – 16.30	Coffee	Coffee	Coffee	Coffee	Coffee
16.30 – 17.30	<i>Stochastic Cooling of a Polarized Proton Beam at COSY (30')</i> Hans Stockhorst (Jülich)	<i>Spin coherence time studies at COSY (30')</i> Greta Guidoboni (Ferrara)	Excursion	<i>Testing of electrostatic deflectors for pEDM at BNL and spin tracking (30')</i> Selcuk Haciomeroglu (BNL)	
	<i>Fabry-Perot interferometry for deflector alignment and control (20')</i> Guido Zavattini (Ferrara)	<i>Capabilities of ZAT: Examples (20')</i> Helmut Soltner (Jülich)		<i>Elimination of systematic errors in resonance EDM experiments at electrostatic storage rings (30')</i> Alexander Silenko (Minsk)	
19.00 – 20.00	Dinner	Dinner	Conference Dinner	Dinner	Dinner