## Nucleon Spin Structure at Low Q: A Hyperfine View

ECT\* workshop program, 02–06 July 2018

Monday				
08:50-09:25	Registration			
09:25-09:30	Welcome – Organizers			
Chair: Marco	35+10mins			
09:30-10:15	Nucleon spin structure: Highlights and Workshop goals	Marc Vanderhaeghen		
10:15-11:00	Overview of new measurements of electromagnetic form factors, polarizabilities and spin structure function functions	Sebastian Kuhn		
11:00-11:30	Coffee break			
11:30-12:15	Proton spin structure in the hyperfine splitting of muonic H	Carl Carlson		
12:15-13:00	Lattice QCD of the nucleon spin structure	Huey-Wen Lin		
13:00-15:30	Lunch			
Chair: Alexan	Chair: Alexandre Deur			
15:30-16:15	The JLab g2p experiment	35+10mins Karl Slifer		
16:15-17:00	Status of chiral EFT calculations	Vladimir Pascalutsa		
17:00-17:30	Coffee break			
17:30-17:55	Radiative Pion-Photoproduction in covariant chiral perturbation theory	Jan Rijneveen		

## 17:55–18:25 **Discussion: Day 1**

Tuesday			
Chair: Karl Sli	35+10mins		
09:30-10:15	Study of Neutron Spin Structure with 3He	Emanuele Pace	
10:15-11:00	Low Q2 Spin Moments of neutron and 3He JLab E97110 experiment	Jian-Ping Chen	
11:00-11:30	Coffee break		
11:30-12:15	Results from the JLab CLAS EG4 experiment	Marco Ripani	
12:15-13:00	Generalized polarizabilities and structure functions in chiral EFT	Vadim Lensky	
13:00-15:30	Lunch		
Chair: Vladimir Pascalutsa			
15:30-16:15	The HIγS program	Mohammed Ahmed	
16:15-17:00	MAMI results for polarizabilities	Phlippe Martel	
17:00-17:30	Coffee break		
17:30-18:15	Recent VCS results from MAMI and JLab	Nikos Sparveris	

Wednesday					
Chair: Marc Vanderhaeghen					
09:30-10:15	Lattice QCD of the nucleon spin structure	Constantia Alexandrou			
10:15-11:00	Nucleon axial charge and the lowest moments of dimension-four operators from lattice QCD	Konstantin Ottnad			
11:00-11:30	Coffee break				
11:30-12:15	Novel calculation of the nucleon FF with Dispersively Improved Chiral EFT	Jose Alarcon			
12:15-12:40	Multipole analysis of Compton scattering	Stefano Sconfietti			
12:40-13:00	Discussion: Day 3				
13:00-14:00	Lunch				

Thursday			
Chair: Carl Ca	arlson		
09:30-10:15	Theory of hyperfine structure	Krzysztof Pachucki	
10:15-11:00	Zemach moments of the proton from electron scattering	Michael Distler	
11:00-11:30	Coffee break		
11:30-12:15	Laser spectroscopy of the hyperfine splitting in muonic hydrogen atom by a	Sohtaro Kanda	
	measurement of decay electron asymmetry		
12:15-13:00	PSI experiments	Aldo Antognini	
13:00-15:30	Lunch		
Chair: Aldo Antognini			
15:30-16:15	NREFT calculations of muH hyperfine structure	Antonio Pineda	
16:15-17:00	Chiral EFT calculations of proton structure effects in muH	Franziska Hagelstein	
17:00-17:30	Coffee break		
17:30-18:15	Preliminary results from JLab PRad experiment	Ashot Gasparian	

18:15–18:45 **Discussion: Day 4** 

	Friday			
Chair: Jian-Ping Chen				
09:30-10:15	Status and plans of the low Q2 nucleon form factor program	Jan C. Bernauer		
10:15-11:00	Proton spin structure in the hyperfine splitting of muonic H	Andreas Vacchi		
11:00-11:30	Coffee break			
11:30-12:15	Workshop summaries			
12:15-13:00	Discussion: Concluding discussion and final remarks			
13:00-14:00	Lunch			