



# Intense Electron Beams Workshop

## Thursday 18 June 2015

### **Parallel: Technology - Clark Learning Center (08:30-10:15)**

time	[id] title	presenter
08:30	[1] The Cornell High Brightness Injector	Dr GULLIFORD, Colwyn
08:50	[2] Photocathodes for High Current Electron Guns	Dr CULTRERA, Luca
09:10	[3] High Current SRF Guns	Dr WANG, E.
09:30	[4] High Current Spin Polarized Electron Sources	Dr GRAMES, Joe
09:50	[5] Magnetic Resonance Polarimetry for Frozen Spin Storage Rings	Prof. TALMAN, Richard

### **Parallel: Electromagnetic Nuclear Properties - Clark Learning Center (08:30-10:15)**

time	[id] title	presenter
08:30	[33] Elastic Lepton-Proton Scattering and Higher-Order QED Effects	Prof. AFANASEV, Andrei
09:05	[34] Precision Møller Scattering at Low Energies	Mr EPSTEIN, Charles
09:40	[35] Overview of recent advances in calculations of two-photon exchange effects	Prof. BLUNDEN, Peter

### **Parallel: Dark Matter, Dark Photons, Axions - Clark Learning Center (08:30-10:15)**

time	[id] title	presenter
08:30	[23] Hunting the Dark Matter Axion with the ADMX	Dr CAROSI, Gianpaolo
08:50	[39] CASPER: the Cosmic Axion Spin Precession Experiment	Prof. KIMBALL, Derek
09:10	[24] The dark sector at low and at high energies	Prof. BAKER, Oliver
09:30	[30] Search for a Dark Photon: proposal for the experiment at VEPP--3	Dr RACHEK, Igor
09:50	[25] Dark Matter searches review	Dr KRNJAIC, Gordan

### **Parallel: Parity Violation - Clark Learning Center (08:30-10:20)**

time	[id] title	presenter
08:30	[40] Parity-Violating Electron Scattering: Status and Prospects	Prof. KUMAR, Krishna
09:00	[41] Nuclear Weak Form-Factors	Prof. HOROWITZ, Charles
09:30	[42] Dark Z and Parity Violation	Dr DAVOUDIASL, Hooman
09:55	[43] Box Diagrams	Prof. CARLSON, Carl

### **Parallel: Parity Violation - Clark Learning Center (10:45-12:10)**

time	[id] title	presenter
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10:45	[44] Nuclear and nucleon structure effects in low-energy parity-violating electron scattering	Dr MORENO, Oscar
11:10	[45] Qweak + Torroidal Spectrometer Options	Dr CARLINI, Roger
11:30	[46] Monte Carlo simulations of a solenoid spectrometer for Project P2	Mr BECKER, Dominik
11:50	[47] Carbon with Solenoidal Spectrometer	Prof. SOUDER, Paul

**Parallel: Technology - Clark Learning Center (10:45-12:15)**

time	[id] title	presenter
10:45	[6] High Density Targets for External Beams	Dr COVRIG, S.
11:05	[7] Unpolarized Cluster, Jet and Pellet Targets	KHOUKAZ, A.
11:25	[8] Polarized Gas Jet, Carbon Fiber Target	Dr ZELENSKI, A.
11:45	[9] Polarized Gas Targets	Dr NASS, A.

**Parallel: Electromagnetic Nuclear Properties - Clark Learning Center (10:45-12:15)**

time	[id] title	presenter
10:45	[36] Virtual Photon Tagging: Probing Confinement Scale QCD	Prof. MILNER, Richard
11:15	[37] Proton radii and low-q form factors: Classic+ISR	Dr BERNAUER, Jan
11:45	[38] Polarization in low $Q^2$ ep elastic scattering	Prof. GILMAN, Ron

**Parallel: Dark Matter, Dark Photons, Axions - Clark Learning Center (10:45-12:15)**

time	[id] title	presenter
10:45	[26] Heavy Photon Search at JLab	Dr MARUYAMA, Takashi
11:25	[32] The Galactic Centre Excess: Review, Interpretation and Future Directions	Mr RODD, Nicholas
11:45	[28] Axion searches review	Prof. AFANASEV, Andrei

**Parallel: Parity Violation Discussion Session - Clark Learning Center (15:30-16:30)****Parallel: Dark Matter, Dark Photons, Axions Discussion Session - Clark Learning Center (15:30-16:30)**

time	[id] title	presenter
15:30	[27] The DarkLight Approach	Dr BALEWSKI, Jan
15:50	[29] BDX	Dr KRNJAIC, Gordan
16:10	[31] Laser Searches for New Particles at Fermilab	Dr WESTER, William

**Parallel: Electromagnetic Nuclear Properties Discussion Session - Clark Learning Center (15:30-16:30)****Parallel: Technology Discussion Session - Clark Learning Center (15:30-16:30)**

time	[id] title	presenter
15:30	[10] Beam Instrumentation Challenges for Parity Violation Experiments	Dr KARGIANTOULAKIS, E.
15:50	[11] SRF Technology for High Current Application	Prof. LIEPE, Matthias
16:10	[12] FFAG Recirculation and Permanent Magnet Technology for ERL's	Dr TSOUHAS, N.