



# 17th Advanced Accelerator Concepts Workshop

## Monday 01 August 2016

### WG2: Computations - Chesapeake L (15:30-17:00)

-Conveners: Benjamin Cowan

time	[id] title	presenter
15:30	[57] Stable Modelling of Relativistic Plasmas with the Particle-In-Cell method	Mr. KIRCHEN, Manuel
15:50	[228] Controlling the Numerical Cerenkov Instability in PIC simulations using a customized finite difference Maxwell solver and a local FFT based current correction	Mr. LI, Fei
16:10	[211] Efficient modeling of laser-plasma accelerators with INF&RNO	Dr. BENEDETTI, Carlo

## Tuesday 02 August 2016

### **WG2: Computations - Baltimore 2 (10:30-12:00)**

**-Conveners: Benjamin Cowan**

time	[id] title	presenter
10:30	[219] Comparison of Quasi-3D and Full-3D OSIRIS simulations of ionization and density downramp injection	Mr. DALICHAOUCH, Thamine
10:50	[117] HOM ABSORBER STUDY BY PHOTON DIFFRACTION MODEL	Dr. XU, CHEN
11:10	[242] Simulations of high-gradient dielectric laser acceleration	Dr. COWAN, Benjamin
11:30	[286] Discussion	

### **WG2: Computations - Baltimore 2 (13:30-15:00)**

**-Conveners: Benjamin Cowan**

time	[id] title	presenter
13:30	[15] Fast Multipole Method for Coulomb Interaction and Other Non-Oscillating Interaction Using Cartesian Tensor and Differential Algebra	Dr. ZHANG, He
13:50	[85] New algorithm for dynamical friction of ions in a magnetized electron beam	Dr. BRUHWILER, David
14:10	[98] Modeling Electron Cloud Dynamics in High-Frequency Accelerators	Dr. VEITZER, Seth
14:30	[287] Discussion	

### **WG2: Computations - Baltimore 2 (15:30-17:00)**

**-Conveners: Benjamin Cowan**

time	[id] title	presenter
15:30	[271] Poster introductions	
16:00	[288] Discussion	

## Wednesday 03 August 2016

### WG2: Computations - Baltimore 2 (10:30-12:00)

-Conveners: Benjamin Cowan

time	[id] title	presenter
10:30	[176] Deriving Numerical Models from Action Principles	Prof. SHADWICK, B. A.
10:50	[89] Pushing Particles in Extreme Fields	Dr. GORDON, Daniel
11:10	[245] GPU Acceleration of Particle-In-Cell Methods	Dr. COWAN, Benjamin
11:30	[289] Discussion	

# Thursday 04 August 2016

**WG2: Computations - Baltimore 2 (10:30-12:00)**

**-Conveners: Benjamin Cowan**

**WG2: Computations - Baltimore 2 (13:30-15:00)**

**-Conveners: Benjamin Cowan**

**WG2: Computations - Baltimore 2 (15:30-17:00)**

**-Conveners: Benjamin Cowan**