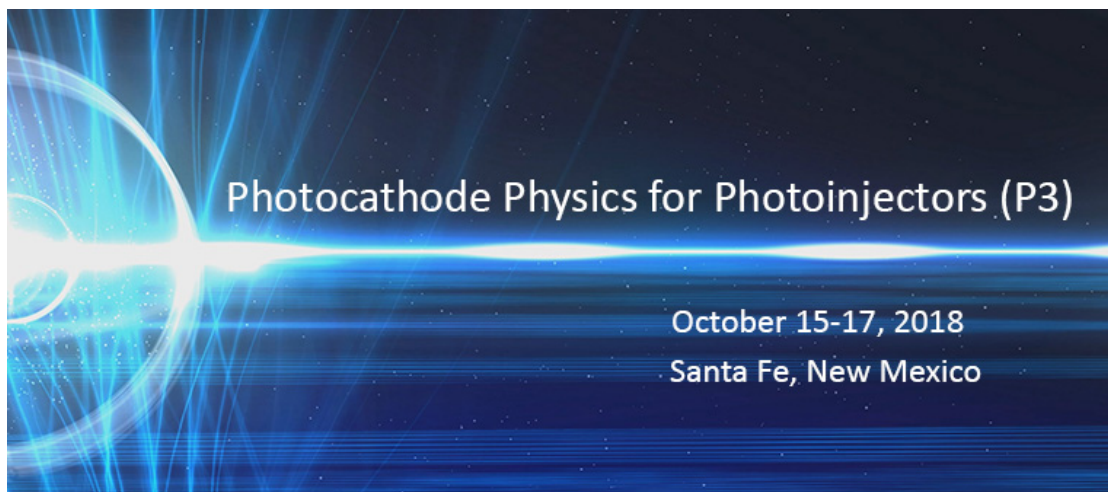


## **Session Program**

**15-17 Oct 2018**



# **Photocathode Physics for Photoinjectors 2018**

## ***Session 10***

Hilton-Buffalo Thunder, Pueblo Conference Room A  
20 Buffalo Thunder Trail Santa Fe, NM, USA 87506

# Wednesday 17 October

10:15

## Session 10: Theory and Computation - continued

**Session** |

**Location:** Hilton-Buffalo Thunder, Pueblo Conference Room A, 20 Buffalo Thunder Trail Santa Fe, NM, USA 87506 |

**Convener:** Dr Dimitre Dimitrov

10:15-10:35

### Ab initio many-body calculations of the mean transverse energy for proposed high-brightness photocathode materials

**Speaker**

Kevin Nangoi

10:35-10:55

### Simulating Quantum Efficiency of Polarized Photocathodes

**Speakers**

Dr Andrei Afanasev, Dr Eric Montgomery

10:55-11:15

### Recent development on the modeling of laser induced electron emission

**Speaker**

Dr Peng Zhang

11:15-11:35

### Modeling quantum yield, emittance and surface roughness effects from metallic photocathodes

**Speaker**

Dr Dimitre Dimitrov

11:35-11:55

### The Modeling of Delayed Photo-Emission Processes in PIC Codes

**Speaker**

Dr John Petillo

11:55-12:15

### Predictive QE Models for PIC Codes Using DFT, TMA, Delay Models, and Optical Models

**Speaker**

Dr Kevin Jensen

12:15