

## **Session Program**

**15-17 Oct 2018**

# **Photocathode Physics for Photoinjectors 2018**

## ***Session 9: Theory and Computation***

Hilton-Buffalo Thunder, Pueblo Ballroom  
20 Buffalo Thunder Trail Santa Fe, NM, USA 87506

## Wednesday 17 October

08:30

### Session 9: Theory and Computation: Session 9: Theory and Computation

**Session** | **Location:** Hilton-Buffalo Thunder, Pueblo Ballroom, 20 Buffalo Thunder Trail Santa Fe, NM, USA 87506

08:30–08:40

#### Review of requirements and challenges

08:40–08:55

#### High intensity laser & photoemission / Laser heating limits

##### Speaker

Dr Jai Kwan Bae

08:55–09:10

#### Tunneling time

##### Speaker

Dr Luca Castiglioni

09:10–09:25

#### Density Functional Theory and Surfaces

##### Speaker

Dr Dan Finkenstadt

09:25–09:40

#### Density Functional Theory and Surfaces

##### Speaker

Dr Andreas Schroeder

09:40–10:00

#### Quantum Dots and QE

10:00–10:15

#### (approved by PC) Many-body processes in Photoemission (DFT)

##### Speaker

Dr J. Kevin Nangoi

10:15–10:30

#### (suggested by PC) Computational Screening for New Photocathode Materials

10:30–10:31

#### Workshop Discussion - combine with Session 10 WD

10:35