# Photocathode Physics for Photoinjectors 2018

## Monday, 15 October 2018

**Poster Session and Networking Reception, Rooms: Vista A and B - Pueblo Conference Room A (18:20 - 20:50)**

**-Conveners: John Lewellen**

| time | [id] title | presenter |
|---|---|---|
| 18:20 | [89] Free□standing bialkali photocathodes using atomically thin substrates | Dr YAMAGUCHI, Hisato |
| 18:30 | [90] One-step photoemission simulation: Exact triangular barrier solution with bulk and vacuum electronic states | Dr ADHIKARI, Gowri |
| 18:40 | [91] First-principles many-body study of the electronic and optical properties of CsK2Sb, a semiconducting material for ultra-bright electron sources | Dr KUEHN, Julius |
| 18:50 | [92] Eliminating the space charge limit with meta-materials | Dr DOWELL, Dave |
| 19:00 | [93] Holistic Cathode Design | Dr DOWELL, Dave |
| 19:10 | [94] Validity of DFT approaches for the prediction of photocathode performance | Dr ANTONIUK , Evan Ronald |
| 19:20 | [95] Characterization, modeling and simulation of photoemission-based electron sources | Dr CHEN, Ye |
| 19:30 | [96] Study of Mean Transverse Energy (MTE) of (N)UNCD with Tunable Laser Source | Dr CHEN, Gongxiaohui |
| 19:40 | [97] Synthesis and characterization of Plasmonic and multilayer structures for uses in Photocathode technologies | Dr LEE, Zhengrong |
| 19:50 | [98] Diamond-tip Cathodes | Dr TAFEL, Alexander |
| 20:00 | [99] Status of DLA experiments and ACHIP | Dr TAFEL, Alexander |
| 20:10 | [100] The possible utility of nanoscale science and related structural mechanisms in optimizing photoemission emittance and quantum efficiency | Dr BANDARU, Prabhakar |
| 20:20 | [101] High Brightness Beam Generation by Ultrafast Field Emission Gating | Dr KUZIKOV, Sergey |
| 20:30 | [102] Alkali-based Photocathode Degradation | Dr BATISTA, Enrique |