

## **Session Program**

**14-16 Apr 2026**



## **Workshop on Longitudinal Electron beam Dynamics for coherent light Sources 2026 (LEDS 2026)**

### ***Session 1***

Helmholtz-Zentrum Berlin für Materialien und Energie GmbH/ BESSY II, Lecture Hall  
Helmholtz-Zentrum Berlin für Materialien und Energie GmbH (HZB) Albert-Einstein-Straße 15 D-12489  
Berlin

# Tuesday 14 April

13:55

## Session 1: Advancements in RF photo-injectors and optimization strategies

**Session** |

**Location:** Helmholtz-Zentrum Berlin für Materialien und Energie GmbH/ BESSY II, Lecture Hall, Helmholtz-Zentrum Berlin für Materialien und Energie GmbH (HZB) Albert-Einstein-Straße 15 D-12489 Berlin |

**Convener:** Atoosa Meseck

14:00–14:25

### Balance of bunch compression and emittance preservation for high-brightness X-ray FEL injectors

**Speaker**

Can Davut

14:25–14:50

### Longitudinal emittance improvement by shortening injector laser pulse duration

**Speaker**

Roberta Provvedi

14:50–15:15

### Beam dynamics optimization for a higher-brightness photo injector with various photocathode laser pulse shape

**Speaker**

Sumaira Zeeshan

15:15–15:40

### Collective and surface charge effects in high-brightness electron bunch production for FCC-ee injector

**Speaker**

Anahita Omoumi

15:40–16:10

### Round Table

**Speaker**

Atoosa Meseck

16:10