

## **Session Program**

**9-13 Jun 2025**

**UPC2025: The second international workshop  
on the physics of Ultra Peripheral Collisions**

***Photon-photon physics, precision tests of SM  
and BSM***

Saariselkä, Finland  
Lapland Hotels Riekonlinna

# Thursday 12 June

14:30

## Photon-photon physics, precision tests of SM and BSM

**Session** | **Location:** Saariselkä, Finland, Lapland Hotels Riekonlinna

14:30–14:50

### Measurement of the tau anomalous magnetic moment using Ultra-peripheral collisions with the ALICE detector in Run 3 Pb–Pb data

#### Speaker

Roman Lavicka

14:50–15:10

### Tau-lepton pair production via di-photon fusion in ultra-peripheral heavy-ion collisions at the ATLAS detector

#### Speaker

Kartik Deepak Bhide

15:10–15:30

### Recent results on exclusive ditau production in proton-proton and lead-lead from CMS

#### Speaker

Michael Murray

15:30–15:50

### Progress in NLO calculations for gamma-gamma physics

#### Speaker

Huasheng Shao

15:50–16:10

### Impact of inelastic corrections on $\gamma\gamma \rightarrow \gamma\gamma$ scattering from UPC at the LHC

#### Speaker

Antoni Szczurek

16:10

16:40

## Photon-photon physics, precision tests of SM and BSM

**Session** | **Location:** Saariselkä, Finland, Lapland Hotels Riekonlinna

16:40–17:00

### ATLAS measurements of coincident photon induced processes in ultra-peripheral Pb+Pb collisions

#### Speaker

Lucy Lewitt

17:00–17:20

### From photons to dikaon - Theoretical Insights into $K^+K^-$ Production in Nuclear Collisions

#### Speaker

Mariola Klusek-Gawenda

17:20-17:40

**Observation of  $\pi^+\pi^-\pi^+\pi^-$  and  $\pi^+\pi^-$  final state photoproduction in ultraperipheral heavy-ion collisions at  $\sqrt{s_{NN}} = 200$  GeV at the STAR detector**

**Speaker**

Dr David Tlusty

17:40

## Friday 13 June

08:40

### Photon-photon physics, precision tests of SM and BSM

**Session** | **Location:** Saariselkä, Finland, Lapland Hotels Riekonlinna

08:50–09:10

**Measurements of proton-antiproton pairs from QED vacuum excitation in Au+Au ultra-peripheral collisions at  $\sqrt{s_{\rm{NN}}} = \sqrt{200}$  GeV from STAR**

**Speaker**

Xinbai Li

09:10–09:30

**Probing the photon Wigner distribution with dilepton production in UPCs**

**Speaker**

Luca Maxia

09:30–09:50

**azimuthal modulation in photon-induced processes**

**Speaker**

Yajin Zhou

09:50–10:10

**Investigating Entanglement Enabled Spin Interference in photonuclear  $\rho^0 \rightarrow \pi^+ \pi^-$  and  $\gamma \gamma \rightarrow \pi^+ \pi^-$  in Au+Au collisions at STAR**

**Speaker**

Samuel Corey

10:10–10:30

**New Constraints on the Existence of Massive Monopoles in Ultra-Peripheral Heavy Ion Collisions with ATLAS**

**Speaker**

Krzysztof Ciesla

10:30