

**JAI Fest**

# **Report of Contributions**

Contribution ID: 1

Type: **not specified**

## Director's report

*Friday 10 December 2021 09:00 (30 minutes)*

**Presenter:** BURROWS, Philip Nicholas (University of Oxford)

**Session Classification:** Session 1

Contribution ID: 2

Type: **not specified**

# **Status of a beam position monitor for the AWAKE experiment based on Cherenkov diffraction radiation**

*Friday 10 December 2021 09:30 (20 minutes)*

**Presenter:** PAKUZA, Collette (University of Oxford)

**Session Classification:** Session 1

Contribution ID: 3

Type: **not specified**

## Electron beamline design for AWAKE Run 2

*Friday 10 December 2021 09:50 (20 minutes)*

**Presenter:** RAMJIAWAN, Rebecca Louise (University of Oxford)

**Session Classification:** Session 1

Contribution ID: 4

Type: **not specified**

## **Synchrotron radiation interferometry for beam size measurement at the LHC**

*Friday 10 December 2021 10:10 (20 minutes)*

**Presenter:** BUTTI, Daniele (Royal Holloway University of London)

**Session Classification:** Session 1

Contribution ID: 22

Type: **not specified**

## Upgrades to the CLEAR facility at CERN

*Friday 10 December 2021 10:50 (20 minutes)*

**Presenter:** DYKS, Luke Aidan (University of Oxford)

**Session Classification:** Session 2

Contribution ID: 23

Type: **not specified**

# Machine Learning applied to processing cavity BPM signals

*Friday 10 December 2021 11:10 (20 minutes)*

**Presenter:** LYAPIN, Alexey (Royal Holloway University of London)

**Session Classification:** Session 2

Contribution ID: 24

Type: **not specified**

## RF Cavities: Thinking Outside Circular Boxes

*Friday 10 December 2021 13:30 (20 minutes)*

**Presenter:** WROE, Laurence (University of Oxford)

**Session Classification:** Session 3



Contribution ID: 25

Type: **not specified**

## **Development of laser-particle process for GEANT4 and validation with ATF2**

*Friday 10 December 2021 11:30 (20 minutes)*

**Presenter:** ALDEN, Siobhan (Royal Holloway University of London)

**Session Classification:** Session 2

Contribution ID: 26

Type: **not specified**

# Applications of Bayesian Inference in Radiation Reaction Experiments

*Friday 10 December 2021 12:10 (20 minutes)*

**Presenter:** LOS, Eva (Imperial College London)

**Session Classification:** Session 2

Contribution ID: 27

Type: **not specified**

# **Gev-Scale Accelerators Driven by Plasma-Modulated Pulses from Kilohertz Lasers**

*Friday 10 December 2021 13:50 (20 minutes)*

**Presenters:** JAKOBSSON, Oscar (University of Oxford); JAKOBSSON, Oscar

**Session Classification:** Session 3

Contribution ID: 28

Type: **not specified**

## **Instability and Beam-Beam Study for Multi-TeV PWFA e<sup>+</sup>e<sup>-</sup> and gamma gamma Linear Colliders**

*Friday 10 December 2021 11:50 (20 minutes)***Presenter:** CHEN, Ben (Imperial College London)**Session Classification:** Session 2

Contribution ID: 29

Type: **not specified**

## **kHz electron and ion acceleration exploiting two plasmon decay**

*Friday 10 December 2021 14:10 (20 minutes)*

**Presenter:** YEMBADI, Rakesh Kumar (Imperial College London)

**Session Classification:** Session 3

Contribution ID: 30

Type: **not specified**

## **Measurements of the effect of density ramps GeV laser-wakefield accelerated beams: implications for staging**

*Friday 10 December 2021 14:30 (20 minutes)***Presenter:** BACKHOUSE, Michael (Imperial College London)**Session Classification:** Session 3

Contribution ID: **31**

Type: **not specified**

## **Medical Applications of BDSIM**

*Friday 10 December 2021 15:10 (20 minutes)*

**Presenter:** SHIELDS, William

**Session Classification:** Session 4

Contribution ID: 32

Type: **not specified**

## Understanding the instabilities in a plasma lens for ion-beam focusing

*Friday 10 December 2021 15:30 (20 minutes)*

**Presenters:** DASCALU, Titus (Imperial College London); DASCALU, Titus-Stefan

**Session Classification:** Session 4



Contribution ID: 33

Type: **not specified**

## **Life After JAI: A cross-disciplinary approach to cancer research**

*Friday 10 December 2021 15:50 (20 minutes)*

**Presenters:** MARTIN, Lucy (The University of Edinburgh); MARTIN, Lucy

**Session Classification:** Session 4

Contribution ID: **34**

Type: **not specified**

## Unofficial JAI bingo

*Friday 10 December 2021 08:55 (5 minutes)*

Contribution ID: 35

Type: **not specified**

## Virtual / Local Cocktails

*Friday 10 December 2021 16:10 (20 minutes)*

<https://spatial.chat/s/protons>

<https://spatial.chat/s/electrons>

**Session Classification:** Virtual cocktails