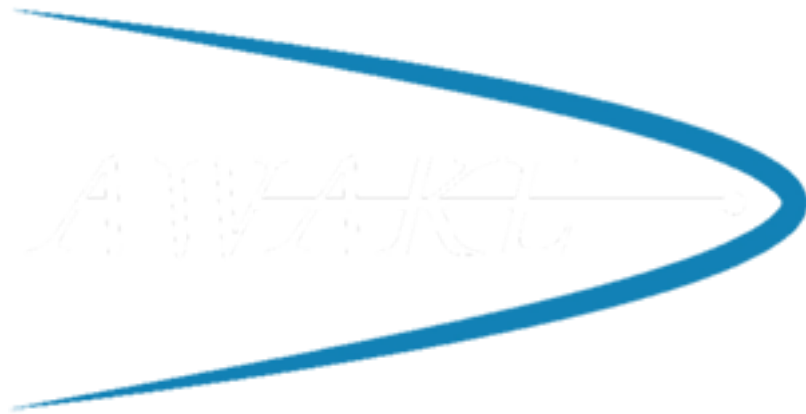


# **AWAKE Collaboration Meeting - 11-13 March 2024**



## **Report of Contributions**

Contribution ID: 1

Type: **not specified**

# Welcome

*Monday 11 March 2024 14:00 (10 minutes)*

**Presenter:** WELSCH, Carsten Peter (Cockcroft Institute / University of Liverpool)

**Session Classification:** Welcome

Contribution ID: 2

Type: **not specified**

## Introduction

*Monday 11 March 2024 14:10 (10 minutes)*

**Presenter:** MUGGLI, Patric (Max Planck Institute for Physics)

**Session Classification:** Welcome

Contribution ID: 3

Type: **not specified**

# **AWAKE: An Experiment at CERN with an International Collaboration and a Well-Defined Program of Work**

*Monday 11 March 2024 14:20 (35 minutes)*

**Presenter:** GSCHWENDTNER, Edda (CERN)

**Session Classification:** AWAKE External Review Summary

Contribution ID: 4

Type: **not specified**

## **The Next AWAKE Runs: Technological Advancements, Scientific Merit and Expected Parameter Reach**

*Monday 11 March 2024 14:55 (30 minutes)*

**Presenter:** MUGGLI, Patric (Max Planck Institute for Physics)

**Session Classification:** AWAKE External Review Summary

Contribution ID: 5

Type: **not specified**

## Review Report

*Monday 11 March 2024 15:25 (10 minutes)*

**Presenter:** GSCHWENDTNER, Edda (CERN)

**Session Classification:** AWAKE External Review Summary

Contribution ID: 6

Type: **not specified**

## Update on the analysis of ion motion

*Monday 11 March 2024 15:55 (20 minutes)*

**Presenter:** TURNER, Marlene (CERN)

**Session Classification:** Run 2b, part I

Contribution ID: 7

Type: **not specified**

# A statistical method to analyze streak camera images

*Monday 11 March 2024 16:15 (20 minutes)*

**Presenter:** CALDWELL, Allen (Max-Planck-Institut fur Physik (DE))

**Session Classification:** Run 2b, part I



Contribution ID: 8

Type: **not specified**

## Update on emittance measurements of the accelerated electron bunch

*Monday 11 March 2024 16:35 (20 minutes)*

**Presenter:** COOKE, David Andrew (University of London (GB))

**Session Classification:** Run 2b, part I

Contribution ID: 9

Type: **not specified**

## Discussion

*Monday 11 March 2024 16:55 (20 minutes)*

**Session Classification:** Run 2b, part I

Contribution ID: **10**

Type: **not specified**

## A hosing mitigation experiment

*Tuesday 12 March 2024 09:00 (20 minutes)*

**Presenter:** MOREIRA, Mariana (CERN)

**Session Classification:** Simulations

Contribution ID: **11**

Type: **not specified**

# Wakefield-driven filamentation of warm beams in plasma

*Tuesday 12 March 2024 09:20 (20 minutes)*

**Presenter:** WALTER, Erwin

**Session Classification:** Simulations

Contribution ID: 12

Type: **not specified**

## **LCODE 3D: A New Open-Source Tool for 3D PWFA simulations**

*Tuesday 12 March 2024 09:40 (20 minutes)*

**Presenter:** Mr OKHOTNIKOV, Nikita (BINP, NSU)

**Session Classification:** Simulations

Contribution ID: 13

Type: **not specified**

## **Clustering of macroparticles in PWFA simulations and solutions to this problem**

*Tuesday 12 March 2024 10:00 (30 minutes)*

**Presenter:** LOTOV, Konstantin (Budker Institute of Nuclear Physics (RU))

**Session Classification:** Simulations

Contribution ID: **14**

Type: **not specified**

## Discussion

*Tuesday 12 March 2024 10:30 (20 minutes)*

**Presenter:** FARMER, John Patrick (MPP / CERN)

**Session Classification:** Simulations

Contribution ID: 15

Type: **not specified**

## Preparing for Run 2b

*Tuesday 12 March 2024 11:10 (20 minutes)*

**Presenter:** ZEVI DELLA PORTA, Giovanni (CERN)

**Session Classification:** Run 2b, part II



Contribution ID: 16

Type: **not specified**

## Upgrades of the Rb Vapour Source

*Tuesday 12 March 2024 11:30 (20 minutes)*

**Presenter:** Dr BERGAMASCHI, Michele (Max-Planck-Institut für Physik/CERN)

**Session Classification:** Run 2b, part II

Contribution ID: 17

Type: **not specified**

## **Plans and preparations for external electron injection experiments in Run 2b (2024)**

*Tuesday 12 March 2024 11:50 (20 minutes)*

**Presenter:** VAN GILS, Nikita (PARTREC, UMCG, University of Groningen, Groningen, The Netherlands)

**Session Classification:** Run 2b, part II

Contribution ID: **18**

Type: **not specified**

## Discussion

*Tuesday 12 March 2024 12:10 (20 minutes)*

**Session Classification:** Run 2b, part II

Contribution ID: **19**

Type: **not specified**

## Recent updates on the Run 2b diagnostics

*Tuesday 12 March 2024 13:50 (20 minutes)*

**Presenter:** PAKUZA, Collette (CERN)

**Session Classification:** Run 2b, part III

Contribution ID: **20**

Type: **not specified**

## ChDR BPMs

*Tuesday 12 March 2024 14:10 (20 minutes)*

**Presenter:** SPEAR, Bethany (University of Oxford (GB))

**Session Classification:** Run 2b, part III

Contribution ID: **21**

Type: **not specified**

## Getting the laser ready for the 2024 run

*Tuesday 12 March 2024 14:30 (20 minutes)*

**Presenter:** RANC, Lucas Alexei

**Session Classification:** Run 2b, part III

Contribution ID: 22

Type: **not specified**

# Electron spectrometer measurements and resolution

*Tuesday 12 March 2024 13:30 (20 minutes)*

**Presenter:** PANNELL, Fern (University College London)

**Session Classification:** Run 2b, part III

Contribution ID: 23

Type: **not specified**

## Progress update on emittance diagnostics for run 2c

*Tuesday 12 March 2024 14:50 (20 minutes)*

**Presenter:** SWAIN, Catherine (University of Liverpool)

**Session Classification:** Run 2b, part III



Contribution ID: 24

Type: **not specified**

## Getting ready for Run 2c

*Wednesday 13 March 2024 09:50 (20 minutes)*

**Presenter:** GURAN, Eloise (CERN)

**Session Classification:** Run 2c/d, part I

Contribution ID: 25

Type: **not specified**

## CNGS dismantling

*Wednesday 13 March 2024 10:10 (20 minutes)*

**Presenter:** PARDONS, Ans (CERN)

**Session Classification:** Run 2c/d, part I

Contribution ID: 26

Type: **not specified**

## The new electron source, prototype and first results

*Wednesday 13 March 2024 10:30 (20 minutes)*

**Presenter:** DOEBERT, Steffen (CERN)

**Session Classification:** Run 2c/d, part I

Contribution ID: 27

Type: **not specified**

## Talk 22

**Session Classification:** Run 2c/d, part I

Contribution ID: **28**

Type: **not specified**

## **LLRF for AWAKE Run 2c**

*Wednesday 13 March 2024 11:10 (20 minutes)*

**Presenter:** PEPITONE, Kevin

**Session Classification:** Run 2c/d, part II

Contribution ID: 29

Type: **not specified**

## Laser lines for Run 2c

*Wednesday 13 March 2024 11:30 (20 minutes)*

**Presenter:** MARTINEZ CALDERON, Miguel (CERN)

**Session Classification:** Run 2c/d, part II

Contribution ID: 30

Type: **not specified**

## **Update on the development of scalable plasma sources at CERN**

*Wednesday 13 March 2024 12:20 (20 minutes)*

**Presenter:** SUBLET, Alban (CERN)

**Session Classification:** Run 2c/d, part II

Contribution ID: **31**

Type: **not specified**

## Diagnosis of a discharge plasma source

*Wednesday 13 March 2024 12:40 (20 minutes)*

**Presenter:** COBO, Claudia (Imperial College London)

**Session Classification:** Run 2c/d, part II



Contribution ID: **32**

Type: **not specified**

## Talk 27

**Session Classification:** Run 2c/d, part III

Contribution ID: **33**

Type: **not specified**

## Talk 28

**Session Classification:** Run 2c/d, part III

Contribution ID: 34

Type: **not specified**

## Report from the Publication Committee

*Wednesday 13 March 2024 13:00 (10 minutes)*

**Presenter:** ZEVI DELLA PORTA, Giovanni (CERN)

**Session Classification:** Close-out

Contribution ID: 35

Type: **not specified**

## Summary from the Collaboration Board

*Wednesday 13 March 2024 13:10 (10 minutes)*

**Presenter:** CALDWELL, Allen (Max-Planck-Institut fur Physik (DE))

**Session Classification:** Close-out

Contribution ID: 36

Type: **not specified**

## Betatron emission studies

*Wednesday 13 March 2024 09:30 (20 minutes)*

**Presenter:** SABERI, Hossein

**Session Classification:** Simulations

Contribution ID: 37

Type: **not specified**

## Update on the BPM study for Run 2c

*Wednesday 13 March 2024 12:00 (20 minutes)*

**Presenter:** STANT, Laurence

**Session Classification:** Run 2c/d, part II

Contribution ID: **38**

Type: **not specified**

## Discussion / AOB

**Session Classification:** Close-out

Contribution ID: 39

Type: **not specified**

## Reliability improvements of the photocathode production

*Wednesday 13 March 2024 11:50 (10 minutes)*

**Presenter:** ROSSEL, Ralf Erik (CERN)

**Session Classification:** Run 2c/d, part II