

HEARTS Period 1 Review Meeting

Report of Contributions

Contribution ID: 1

Type: **not specified**

Introduction by the European Commission

Wednesday 25 September 2024 08:30 (10 minutes)

Presenters: VITOBELLO, Fabio (European Commission); CONTICELLO, Simon (European Commission)

Contribution ID: 2

Type: **not specified**

Introduction by the Project Leader

Wednesday 25 September 2024 08:40 (10 minutes)

Presenter: GARCIA ALIA, Ruben (CERN)

Contribution ID: 3

Type: **not specified**

WP1 Overview

Wednesday 25 September 2024 08:50 (15 minutes)

Presenter: LOPEZ, Pablo Federico (CERN)

Contribution ID: 4

Type: **not specified**

WP2 Overview

Wednesday 25 September 2024 09:05 (15 minutes)

Presenter: BRENT, Thomas (CERN)

Contribution ID: 5

Type: **not specified**

WP3 Introduction

Wednesday 25 September 2024 09:20 (5 minutes)

Presenter: ESPOSITO, Luigi Salvatore (CERN)

Session Classification: WP3 Overview

Contribution ID: 6

Type: **not specified**

Task 3.1: Simulation of beam properties and detector characterization (CERN, month 1-24)

Wednesday 25 September 2024 09:25 (10 minutes)

Presenter: WAETS, Andreas (CERN / University of Zurich)

Session Classification: WP3 Overview

Contribution ID: 7

Type: **not specified**

Task 3.2: Simulation of shielding materials and configurations for test setup standardization (TAS, GSI, month 1-24)

Wednesday 25 September 2024 09:35 (10 minutes)

Presenter: ESPOSITO, Luigi Salvatore (CERN)

Session Classification: WP3 Overview

Contribution ID: 8

Type: **not specified**

Task 3.3: Simulation of GCR/SPE simulator (GSI, month 12-24)

Wednesday 25 September 2024 09:45 (10 minutes)

Presenter: ESPOSITO, Luigi Salvatore (CERN)

Session Classification: WP3 Overview

Contribution ID: 9

Type: **not specified**

Task 3.4: Simulations to ensure the reduction of uncertainties about the LET of VHE ion beams at the sensitive volumes (CERN, UNIPD, month 12-36)

Wednesday 25 September 2024 09:55 (10 minutes)

Presenter: ESPOSITO, Luigi Salvatore (CERN)

Session Classification: WP3 Overview

Contribution ID: 10

Type: **not specified**

Task 3.5: Understanding physical mechanisms of simple and medium-complexity electronic devices (UNIPD, month 12-36)

Wednesday 25 September 2024 10:05 (10 minutes)

Presenter: ESPOSITO, Luigi Salvatore (CERN)

Session Classification: WP3 Overview

Contribution ID: **11**

Type: **not specified**

Q&A for WP3

Wednesday 25 September 2024 10:15 (10 minutes)

Session Classification: WP3 Overview

Contribution ID: 12

Type: **not specified**

WP4 Introduction

Wednesday 25 September 2024 10:45 (5 minutes)

Presenter: WEBER, Ulrich (GSI)

Session Classification: WP4 Overview

Contribution ID: 13

Type: **not specified**

Task 4.1: Knowledge transfer between CERN and GSI (CERN, GSI, month 1-12)

Wednesday 25 September 2024 10:50 (10 minutes)

Presenter: WEBER, Ulrich (GSI)

Session Classification: WP4 Overview

Contribution ID: 14

Type: **not specified**

Task 4.2: Calibration of beam instrumentation for VHE ion beam extraction (CERN, month 1-24)

Wednesday 25 September 2024 11:00 (10 minutes)

Presenter: WEBER, Ulrich (GSI)

Session Classification: WP4 Overview

Contribution ID: 15

Type: **not specified**

Task 4.3: Beam delivery monitoring (GSI, month 12-36)

Wednesday 25 September 2024 11:10 (10 minutes)

Presenter: WEBER, Ulrich (GSI)

Session Classification: WP4 Overview

Contribution ID: 16

Type: **not specified**

Task 4.4: Target station (GSI, month 12-36)

Wednesday 25 September 2024 11:20 (10 minutes)

Presenter: WEBER, Ulrich (GSI)

Session Classification: WP4 Overview

Contribution ID: 17

Type: **not specified**

Task 4.5: GCR/SPE simulator dosimetry (GSI, month 24-36)

Wednesday 25 September 2024 11:30 (10 minutes)

Presenter: WEBER, Ulrich (GSI)

Session Classification: WP4 Overview

Contribution ID: **18**

Type: **not specified**

Task 4.6: Intercomparison between CERN and GSI (CERN, GSI, month 24-48)

Wednesday 25 September 2024 11:40 (10 minutes)

Presenter: WEBER, Ulrich (GSI)

Session Classification: WP4 Overview

Contribution ID: **19**

Type: **not specified**

Q&A for WP4

Wednesday 25 September 2024 11:50 (10 minutes)

Session Classification: WP4 Overview

Contribution ID: 20

Type: **not specified**

WP5 Introduction

Wednesday 25 September 2024 13:30 (5 minutes)

Presenter: GERARDIN, Simone (Padova University)

Session Classification: WP5 Overview

Contribution ID: 21

Type: **not specified**

Task 5.1: Final review of VHE ion beam requirements for SEE testing (ADS, TAS, month 1-6)

Wednesday 25 September 2024 13:35 (10 minutes)

Presenter: GERARDIN, Simone (Padova University)

Session Classification: WP5 Overview

Contribution ID: 22

Type: **not specified**

Task 5.2: Analysis of ionization response in a PIN diode for beam quality assessments (UNIPD, month 1-24)

Wednesday 25 September 2024 13:45 (10 minutes)

Presenter: GERARDIN, Simone (Padova University)

Session Classification: WP5 Overview

Contribution ID: 23

Type: **not specified**

Task 5.3: Suitability of the proposed VHE ion beams for 3D integrated device structures (UNIPD, month 12-36)

Wednesday 25 September 2024 13:55 (10 minutes)

Presenter: GERARDIN, Simone (Padova University)

Session Classification: WP5 Overview

Contribution ID: 24

Type: **not specified**

Task 5.4: Validation of the VHE ion beams for industrial use with TRL 6-7 achievement (ADS, CERN, month 12-36)

Wednesday 25 September 2024 14:05 (10 minutes)

Presenter: GERARDIN, Simone (Padova University)

Session Classification: WP5 Overview

Contribution ID: 25

Type: **not specified**

Task 5.5: Qualification of high-complexity devices (UNIPD, TAS, month 24-48)

Wednesday 25 September 2024 14:15 (10 minutes)

Presenter: GERARDIN, Simone (Padova University)

Session Classification: WP5 Overview

Contribution ID: 26

Type: **not specified**

Task 5.6: Board-level testing (TAS, month 24-48)

Wednesday 25 September 2024 14:25 (10 minutes)

Presenter: GERARDIN, Simone (Padova University)

Session Classification: WP5 Overview

Contribution ID: 27

Type: **not specified**

Q&A for WP5

Wednesday 25 September 2024 14:35 (10 minutes)

Session Classification: WP5 Overview

Contribution ID: 28

Type: **not specified**

WP6 Introduction

Wednesday 25 September 2024 14:45 (5 minutes)

Presenter: SCHUY, Christoph (GSI)

Session Classification: WP6 Overview

Contribution ID: 29

Type: **not specified**

Task 6.1: Standardized setup for the GCR/SPE simulation experiments (GSI, TAS, month 1-24)

Wednesday 25 September 2024 14:50 (10 minutes)

Presenter: SCHUY, Christoph (GSI)

Session Classification: WP6 Overview

Contribution ID: 30

Type: **not specified**

Task 6.2: Quantitative measurement of shielding effectiveness (GSI, TAS, month 12-36)

Wednesday 25 September 2024 15:00 (10 minutes)

Presenter: SCHUY, Christoph (GSI)

Session Classification: WP6 Overview

Contribution ID: 31

Type: **not specified**

Task 6.3: Radiobiological characterization (GSI, month 24-48)

Wednesday 25 September 2024 15:10 (10 minutes)

Presenter: SCHUY, Christoph (GSI)

Session Classification: WP6 Overview

Contribution ID: **32**

Type: **not specified**

Q&A for WP6

Wednesday 25 September 2024 15:20 (10 minutes)

Session Classification: WP6 Overview

Contribution ID: 33

Type: **not specified**

WP7 Introduction

Wednesday 25 September 2024 15:50 (5 minutes)

Presenter: GARCIA ALIA, Ruben (CERN)

Session Classification: WP7 Overview

Contribution ID: 34

Type: **not specified**

Task 7.1: Methodology for extracting variable energy ion beams to ensure parallel operation of the VHE ion facility (CERN, month 1-12)

Wednesday 25 September 2024 15:55 (10 minutes)

Presenter: GARCIA ALIA, Ruben (CERN)

Session Classification: WP7 Overview

Contribution ID: 35

Type: **not specified**

Task 7.2: Achievement of the required beam parameters for microelectronics SEE testing (CERN, month 12-24)

Wednesday 25 September 2024 16:05 (10 minutes)

Presenter: GARCIA ALIA, Ruben (CERN)

Session Classification: WP7 Overview

Contribution ID: 36

Type: **not specified**

Task 7.3: Framework for user access (CERN, month 24-48)

Wednesday 25 September 2024 16:15 (10 minutes)

Presenter: GARCIA ALIA, Ruben (CERN)

Session Classification: WP7 Overview

Contribution ID: 37

Type: **not specified**

Q&A for WP7

Wednesday 25 September 2024 16:25 (10 minutes)

Session Classification: WP7 Overview

Contribution ID: **38**

Type: **not specified**

WP8 Introduction

Wednesday 25 September 2024 16:35 (5 minutes)

Presenter: WAGNER, Tim (GSI)

Session Classification: WP8 Overview

Contribution ID: 39

Type: **not specified**

Task 8.1: Framework for user access (GSI, month 1-48)

Wednesday 25 September 2024 16:40 (10 minutes)

Presenter: WAGNER, Tim (GSI)

Session Classification: WP8 Overview

Contribution ID: 40

Type: **not specified**

Task 8.2: GCR/SPE simulator installation in APPA cave or CBM vault (GSI, month 36-48)

Wednesday 25 September 2024 16:50 (10 minutes)

Presenter: WAGNER, Tim (GSI)

Session Classification: WP8 Overview

Contribution ID: 41

Type: **not specified**

Task 8.3: Test of the GCR/SPE simulator (GSI, month 47-48)

Wednesday 25 September 2024 17:00 (10 minutes)

Presenter: WAGNER, Tim (GSI)

Session Classification: WP8 Overview

Contribution ID: 42

Type: **not specified**

Q&A for WP8

Wednesday 25 September 2024 17:10 (10 minutes)

Session Classification: WP8 Overview

Contribution ID: 43

Type: **not specified**

WP9 Introduction

Wednesday 25 September 2024 17:20 (5 minutes)

Presenter: VITOROVIC, Miha (Cosylab Control System Laboratory)

Session Classification: WP9 Overview

Contribution ID: 44

Type: **not specified**

Task 9.1 User interface tool for experimentation

Wednesday 25 September 2024 17:25 (10 minutes)

Presenter: VITOROVIC, Miha (Cosylab Control System Laboratory)

Session Classification: WP9 Overview

Contribution ID: 45

Type: **not specified**

Task 9.2 User experiment lifecycle interface

Wednesday 25 September 2024 17:35 (10 minutes)

Presenter: VITOROVIC, Miha (Cosylab Control System Laboratory)

Session Classification: WP9 Overview

Contribution ID: 46

Type: **not specified**

Q&A for WP9

Wednesday 25 September 2024 17:45 (10 minutes)

Session Classification: WP9 Overview

Contribution ID: 47

Type: **not specified**

Feedbacks, comments and concluding remarks

Wednesday 25 September 2024 17:55 (35 minutes)