

**ITRF/LhARA Collaboration
Meeting #5 and ITRF 18
month review**

Report of Contributions

Contribution ID: 47

Type: **not specified**

Phase 1 design

Thursday, 25 April 2024 11:00 (20 minutes)

Presenter: SHIELDS, William (Royal Holloway, University of London)

Session Classification: Design and integration

Contribution ID: 48

Type: **not specified**

FFA and Magnet Design

Thursday, 25 April 2024 11:20 (15 minutes)

Presenter: PASTERNAK, Jaroslaw (Imperial College London/RAL-STFC)

Session Classification: Design and integration

Contribution ID: 49

Type: **not specified**

Engineering issues

Thursday, 25 April 2024 11:50 (20 minutes)

Presenter: HILL, Clive (STFC)

Session Classification: Design and integration

Contribution ID: 50

Type: **not specified**

Discussion of design and engineering

Thursday, 25 April 2024 12:10 (20 minutes)

Presenters: HILL, Clive (STFC); Dr OWEN, Hywel (STFC)

Session Classification: Design and integration

Contribution ID: 51

Type: **not specified**

Welcome and introduction

Thursday, 25 April 2024 10:30 (10 minutes)

Presenter: LONG, Ken (Oxford Uni.)

Session Classification: Welcome and introduction

Contribution ID: 52

Type: **not specified**

ITRF timetable and milestones

Thursday, 25 April 2024 10:40 (10 minutes)

Presenter: Dr OWEN, Hywel (STFC)

Session Classification: Welcome and introduction

Contribution ID: 53

Type: **not specified**

Overview of project planning for BP1

Thursday, 25 April 2024 10:50 (10 minutes)

C Whyte - overview

Presenters: GOULDEN, Andy (STFC); WHYTE, Colin (University of Strathclyde)

Session Classification: Welcome and introduction

Contribution ID: 54

Type: **not specified**

Introduction and explanation of the session

Friday, 26 April 2024 15:30 (5 minutes)

Presenter: BAMBER, Jeffrey (Institute of Cancer Research)

Session Classification: Ion-acoustic dose profile mapping

Contribution ID: 55

Type: **not specified**

LMU experiment, aims, phantom design overview and expected outcomes

Friday, 26 April 2024 15:35 (15 minutes)

Presenter: LONG, Ken (Oxford Uni.)

Session Classification: Ion-acoustic dose profile mapping

Contribution ID: 56

Type: **not specified**

Status of BDSIM, Geant4 and k-Wave simulation and summary of findings, development of SmartPhantom

Friday, 26 April 2024 15:50 (20 minutes)

Presenter: MAXOUTI, Maria

Session Classification: Ion-acoustic dose profile mapping

Contribution ID: 57

Type: **not specified**

Status of Zemax simulation with liquid scintillator and summary of findings

Friday, 26 April 2024 16:10 (15 minutes)

Presenter: HOBSON, Peter

Session Classification: Ion-acoustic dose profile mapping

Contribution ID: 59

Type: **not specified**

Acoustic data acquisition and processing, and summing up

Friday, 26 April 2024 16:25 (10 minutes)

Presenter: BAMBER, Jeffrey (Institute of Cancer Research)

Session Classification: Ion-acoustic dose profile mapping

Contribution ID: 61

Type: **not specified**

M6:Preliminary design of LhARA MA RF cavity, FFA magnet, diagnostic system, control & feedback systems complete.

Thursday, 25 April 2024 16:30 (10 minutes)

https://ccap.hep.ph.ic.ac.uk/trac/attachment/wiki/Research/LhARA/Governance/ProjectManagementBoard/PMB_Doc_Library/pa1-pm-rpt-0008-v0.5%20milestones%20M6%20%26%20M7%20report.docx

Session Classification: ITRF 18 month deliverable discussion leading to agreement

Contribution ID: 62

Type: **not specified**

**M7: Preliminary design study of LhARA Building
concept design, bulk shielding assessment,
mechanical systems integration support concepts,
vacuum concepts, power consumption & cooling
requirements complete.**

Thursday, 25 April 2024 16:40 (10 minutes)

Session Classification: ITRF 18 month deliverable discussion leading to agreement

Contribution ID: 63

Type: **not specified**

M3/9:Validate LhARA plasma simulations with existing Swansea experimental set-up (LhARA M3.1). Progress report of LhARA large diameter plasma experiments and simulations (LhARA M3.2)

Thursday, 25 April 2024 16:50 (10 minutes)

Session Classification: ITRF 18 month deliverable discussion leading to agreement

Contribution ID: 64

Type: **not specified**

M10: Geant4 simulations of beam energy deposition profile (LhARA M4.1)

Thursday, 25 April 2024 17:00 (10 minutes)

Session Classification: ITRF 18 month deliverable discussion leading to agreement

Contribution ID: 65

Type: **not specified**

M11: 18 Month design Review

Thursday, 25 April 2024 17:10 (20 minutes)

Session Classification: ITRF 18 month deliverable discussion leading to agreement

Contribution ID: 72

Type: **not specified**

FETS & LhARA FFA magnet design progress

Thursday, 25 April 2024 11:35 (15 minutes)

Presenter: Mr KUO, Ta-Jen (JAI/Imperial)

Session Classification: Design and integration

Contribution ID: 73

Type: **not specified**

Overview of WP2 and Progress Report

Friday, 26 April 2024 09:30 (15 minutes)

Presenter: GRAY, Ross

Session Classification: Source

Contribution ID: 74

Type: **not specified**

Update on Simulations

Friday, 26 April 2024 09:45 (15 minutes)

Presenter: DASCALU, Titus-Stefan (Imperial College London)

Session Classification: Source

Contribution ID: 75

Type: **not specified**

Update on SCAPA Development and Experiments

Friday, 26 April 2024 10:00 (15 minutes)

Presenter: Dr WILSON, Robbie (Strathclyde)

Session Classification: Source

Contribution ID: 76

Type: **not specified**

Update on Ion Diagnostic Calibrations

Friday, 26 April 2024 10:15 (10 minutes)

Presenter: Dr ALDERTON, Matthew (Strathclyde)

Session Classification: Source

Contribution ID: 77

Type: **not specified**

Discussion

Friday, 26 April 2024 10:25 (5 minutes)

Session Classification: Source

Contribution ID: 78

Type: **not specified**

Overview of ITRF/LhARA

Friday, 26 April 2024 11:00 (20 minutes)

Presenter: LONG, Ken (Oxford Uni.)

Session Classification: Radiation biology and PoPLaR

Contribution ID: 79

Type: **not specified**

Current/future radiobiology research interests

Friday, 26 April 2024 11:20 (30 minutes)

Presenter: PARSONS, Jason (University of Birmingham)

Session Classification: Radiation biology and PoPLaR

Contribution ID: **80**

Type: **not specified**

Importance of ITRF/LhARA for radiation therapy

Friday, 26 April 2024 11:50 (30 minutes)

Presenter: Prof. GIACCA, Amato (Stanford/OIRO)

Session Classification: Radiation biology and PoPLaR

Contribution ID: **81**

Type: **not specified**

PoPLAR at SCAPA

Friday, 26 April 2024 12:20 (20 minutes)

Presenters: PARSONS, Jason (University of Birmingham); MCGARRIGLE, Josie (Imperial College London)

Session Classification: Radiation biology and PoPLaR

Contribution ID: **82**

Type: **not specified**

Collaborative discussion/opportunities

Friday, 26 April 2024 12:40 (20 minutes)

Session Classification: Radiation biology and PoPLaR

Contribution ID: 83

Type: **not specified**

Outreach, engagement, and advocacy

Friday, 26 April 2024 16:35 (10 minutes)

Presenter: Prof. PRICE, Patricia (Imperial)

Session Classification: Closing session (including outreach and impact)

Contribution ID: **84**

Type: **not specified**

Closing remarks

Friday, 26 April 2024 16:45 (15 minutes)

Presenter: Prof. GIACCA, Amato (Oxford/Standord)

Session Classification: Closing session (including outreach and impact)

Contribution ID: 85

Type: **not specified**

Overview of existing dosimetry techniques

Thursday, 25 April 2024 13:45 (15 minutes)

Presenter: PATEL, Milaan (Liverpool)

Session Classification: Novel end-station development

Contribution ID: **86**

Type: **not specified**

DCF experiment overview

Thursday, 25 April 2024 14:00 (15 minutes)

Presenter: KUMAR, Narender (University of Liverpool, Cockcroft Institute)

Session Classification: Novel end-station development

Contribution ID: 87

Type: **not specified**

Consultation Meetings update

Thursday, 25 April 2024 14:15 (15 minutes)

Presenter: Dr MCLAUCHLAN, Ruth (Imperial College Healthcare NHS Trust; Imperial College London)

Session Classification: Novel end-station development

Contribution ID: **88**

Type: **not specified**

Endstation designs and updates

Thursday, 25 April 2024 14:30 (15 minutes)

Presenter: PRICE, Tony (University of Birmingham)

Session Classification: Novel end-station development

Contribution ID: **89**

Type: **not specified**

Beyond state-of-the-art instrumentation for the end stations

Thursday, 25 April 2024 14:45 (15 minutes)

Presenter: AMOS, Richard (UCL)

Session Classification: Novel end-station development