

International Workshop on μ CF and Future Applications

Report of Contributions

Contribution ID: 1

Type: **not specified**

Welcome and Workshop Overview

Thursday, 2 July 2026 10:00 (10 minutes)

Presenters: VENANZONI, Graziano; OKADA, Shinji (Chubu University)

Session Classification: Opening Session

Contribution ID: 3

Type: **not specified**

Introduction to Research Activities at the University of Liverpool and Workshop Motivation

Thursday, 2 July 2026 10:10 (20 minutes)

Presenter: VENANZONI, Graziano

Session Classification: Opening Session

Contribution ID: 4

Type: **not specified**

μ CF Studies in Japan and Moonshot Activities

Thursday, 2 July 2026 10:30 (30 minutes)

Presenter: OKADA, Shinji (Chubu University)

Session Classification: Session 1: μ CF Physics and Current Understanding

Contribution ID: 5

Type: **not specified**

Current Status of μ CF Theory

Thursday, 2 July 2026 11:00 (30 minutes)

Presenter: KINO, Yasushi

Session Classification: Session 1: μ CF Physics and Current Understanding

Contribution ID: 6

Type: **not specified**

Summary of Previous μ CF Experiments and Lessons Learned

Thursday, 2 July 2026 11:30 (30 minutes)

Presenter: TOYODA, Akihisa

Session Classification: Session 1: μ CF Physics and Current Understanding

Contribution ID: 7

Type: **not specified**

Current Status of μ CF Experiments at PSI

Thursday, 2 July 2026 13:30 (30 minutes)

Presenter: (MUFUSE COLLABORATION), TBA

Session Classification: Session 2: Current Experimental Activities

Contribution ID: 8

Type: **not specified**

Recent Tritium Activities in μCF

Thursday, 2 July 2026 14:00 (30 minutes)

Presenter: SHMAYDA, Walter (Tritium Solutions, Inc.)

Session Classification: Session 2: Current Experimental Activities

Contribution ID: 9

Type: **not specified**

Exotic Atom Spectroscopy and High-Resolution X-Ray Measurements

Thursday, 2 July 2026 14:30 (25 minutes)

Presenter: TOYAMA, Yuichi

Session Classification: Session 2: Current Experimental Activities

Contribution ID: 10

Type: **not specified**

Future Plans at PSI and J-PARC and International Coordination

Thursday, 2 July 2026 14:55 (25 minutes)

Presenter: MIHARA, Satoshi (KEK)

Session Classification: Session 2: Current Experimental Activities

Contribution ID: 11

Type: **not specified**

Detector Concepts and Key Measurements in Future μ CF Experiments

Thursday, 2 July 2026 15:50 (20 minutes)

Presenter: TOYODA, Akihisa (KEK)

Session Classification: Session 3: Instrumentation, Detectors, and Simulation

Contribution ID: 12

Type: **not specified**

Overview of the MuFusE Experimental Apparatus

Thursday, 2 July 2026 16:10 (20 minutes)

Presenter: (MUFUSE COLLABORATION), TBA

Session Classification: Session 3: Instrumentation, Detectors, and Simulation

Contribution ID: 13

Type: **not specified**

Instrumentation and Detector Development at Liverpool

Thursday, 2 July 2026 16:30 (20 minutes)

Presenter: Dr IGNATOV, Fedor (University of Liverpool)

Session Classification: Session 3: Instrumentation, Detectors, and Simulation

Contribution ID: 14

Type: **not specified**

Simulation and Beam Optimization Studies: Current Results and Future Challenges

Thursday, 2 July 2026 16:50 (20 minutes)

Presenter: ZHANG, Ce (University of Liverpool)

Session Classification: Session 3: Instrumentation, Detectors, and Simulation

Contribution ID: 15

Type: **not specified**

Neutron Detector Development for μ CF Experiments

Friday, 3 July 2026 10:00 (20 minutes)

Presenter: UENO, Kazuki

Session Classification: Session 3: Instrumentation, Detectors, and Simulation

Contribution ID: 16

Type: **not specified**

TES Detectors and High-Resolution X-Ray Detection for μ CF and Exotic Atom Studies

Friday, 3 July 2026 10:20 (20 minutes)

Presenters: OKADA, Shinji (Chubu University); TOYAMA, Yuichi (Chubu University)

Session Classification: Session 3: Instrumentation, Detectors, and Simulation

Contribution ID: 17

Type: **not specified**

General Discussion

Friday, 3 July 2026 10:40 (20 minutes)

Open discussion on experimental challenges, detector requirements, and future opportunities for collaboration

Session Classification: Session 3: Instrumentation, Detectors, and Simulation

Contribution ID: **18**

Type: **not specified**

Workshop Dinner

Thursday, 2 July 2026 19:30 (2 hours)

Contribution ID: 19

Type: **not specified**

Fusion Research Overview in Japan

Friday, 3 July 2026 11:30 (30 minutes)

Presenter: NAGAOKA, Kenich

Session Classification: Session 4: Future Applications and Industry Perspectives

Contribution ID: 20

Type: **not specified**

Fusion Research Overview in the UK

Friday, 3 July 2026 12:00 (30 minutes)

Session Classification: Session 4: Future Applications and Industry Perspectives

Contribution ID: 21

Type: **not specified**

Fusion Research Overview in the US

Session Classification: Session 4: Future Applications and Industry Perspectives

Contribution ID: 22

Type: **not specified**

Fusion-Related Industrial Perspectives and Technology Development

Friday, 3 July 2026 12:30 (30 minutes)

Presenter: OKA, Masaru

Session Classification: Session 4: Future Applications and Industry Perspectives

Contribution ID: 23

Type: **not specified**

Negative Muon Cooling and Potential Applications of μCF

Friday, 3 July 2026 14:30 (20 minutes)

Presenter: STRASSER, Patrick

Session Classification: Session 4: Future Applications and Industry Perspectives

Contribution ID: 24

Type: **not specified**

UK Industry Perspectives and Advanced Instrumentation

Friday, 3 July 2026 14:50 (20 minutes)

Presenter: (UK INDUSTRY), TBA

Session Classification: Session 4: Future Applications and Industry Perspectives

Contribution ID: 25

Type: **not specified**

Future Perspectives of μ CF Studies in Relation to COMET

Friday, 3 July 2026 15:10 (20 minutes)

Presenter: FUKAO, Yoshinori

Session Classification: Session 4: Future Applications and Industry Perspectives

Contribution ID: 26

Type: **not specified**

Funding Opportunities and Future International Programs

Friday, 3 July 2026 16:00 (20 minutes)

Presenter: VENANZONI, Graziano

Session Classification: Session 5: International Collaboration and Future Opportunities

Contribution ID: 27

Type: **not specified**

UK–Japan–US Collaboration Opportunities

Friday, 3 July 2026 16:20 (20 minutes)

round table discussion

Session Classification: Session 5: International Collaboration and Future Opportunities

Contribution ID: 28

Type: **not specified**

Future Roadmap toward PSI, J-PARC, and Next-Generation μ CF Experiments

Friday, 3 July 2026 16:40 (20 minutes)

Session Classification: Session 5: International Collaboration and Future Opportunities

Contribution ID: 29

Type: **not specified**

Conclusion of the first day

Thursday, 2 July 2026 17:10 (30 minutes)

Session Classification: Session 3: Instrumentation, Detectors, and Simulation