

Community Workshop on Cold Atoms in Space

Report of Contributions

Contribution ID: 1

Type: **not specified**

Introduction

Thursday, September 23, 2021 9:00 AM (10 minutes)

Presenter: OLIVER BUCHMUELLER AND JOHN ELLIS

Session Classification: Workshop Introduction

Contribution ID: 2

Type: **not specified**

Senior Committee Recommendations for Voyage 2050

Thursday, September 23, 2021 9:10 AM (30 minutes)

Presenter: MIKE CRUISE

Session Classification: Workshop Introduction

Contribution ID: 3

Type: **not specified**

ESA Perspective on Cold Atoms in Space

Thursday, September 23, 2021 9:40 AM (30 minutes)

Presenter: OLIVIER CARRAZ

Session Classification: Workshop Introduction

Contribution ID: 4

Type: **not specified**

Exploring the Foundations of the Physical Universe with Space Tests of the Equivalence Principle

Thursday, September 23, 2021 10:10 AM (10 minutes)

Presenter: PETER WOLF

Session Classification: Voyage2050 White Paper Reviews

Contribution ID: 5

Type: **not specified**

AEDGE: Atomic Experiment for Dark Matter and Gravity Exploration

Thursday, September 23, 2021 10:20 AM (10 minutes)

Presenter: JOHN ELLIS

Session Classification: Voyage2050 White Paper Reviews

Contribution ID: 6

Type: **not specified**

Quantum Technologies in Space

Thursday, September 23, 2021 10:30 AM (10 minutes)

Presenter: MAURO PATERNOSTRO

Session Classification: Voyage2050 White Paper Reviews

Contribution ID: 7

Type: **not specified**

The Missing Link in Gravitational-Wave Astronomy

Thursday, September 23, 2021 10:40 AM (10 minutes)

Presenter: SHIMON KOLKOWITZ

Session Classification: Voyage2050 White Paper Reviews

Contribution ID: 8

Type: **not specified**

Atomic Clocks Review

Thursday, September 23, 2021 11:30 AM (15 minutes)

Presenter: SEBASTIEN BIZE

Session Classification: Atomic Clock Reviews

Contribution ID: 9

Type: **not specified**

Space Clock Projects Europe

Thursday, September 23, 2021 12:15 PM (15 minutes)

Presenter: KAI BONGS

Session Classification: Atomic Clock Reviews

Contribution ID: **10**

Type: **not specified**

Space Clock Projects China

Thursday, September 23, 2021 11:00 AM (15 minutes)

Presenter: YU-AO CHEN

Session Classification: Atomic Clock Reviews

Contribution ID: 11

Type: **not specified**

Space Clock Projects US

Thursday, September 23, 2021 11:15 AM (15 minutes)

Presenter: KURT GIBBLE

Session Classification: Atomic Clock Reviews

Contribution ID: 12

Type: **not specified**

Atomic Clocks for Geodesy

Thursday, September 23, 2021 12:00 PM (15 minutes)

Presenter: HU WU

Session Classification: Atomic Clock Reviews

Contribution ID: 13

Type: **not specified**

Atomic Clocks for SI Second Redefinition

Thursday, September 23, 2021 11:45 AM (15 minutes)

Presenter: HELEN MARGOLIS

Session Classification: Atomic Clock Reviews

Contribution ID: 14

Type: **not specified**

User requirements as a basis for a future quantum space gravimetry mission

Thursday, September 23, 2021 1:00 PM (15 minutes)

Presenter: FEDERICA MIGLIACCIO

Session Classification: Earth Observation Reviews

Contribution ID: 15

Type: **not specified**

Methods for atom interferometry in space in the context of earth observation

Thursday, September 23, 2021 1:15 PM (15 minutes)

Presenter: CHRISTIAN SCHUBERT

Session Classification: Earth Observation Reviews

Contribution ID: 16

Type: **not specified**

CAI and GRICE Studies

Thursday, September 23, 2021 2:00 PM (15 minutes)

Presenter: FRANCK PEREIRA DOS SANTOS

Session Classification: Earth Observation Reviews

Contribution ID: 17

Type: **not specified**

Quantum space gravimetry at European Commission

Thursday, September 23, 2021 1:30 PM (15 minutes)

Presenter: FREDERIC DOMPS

Session Classification: Earth Observation Reviews

Contribution ID: **18**

Type: **not specified**

Wave Function Collapse

Thursday, September 23, 2021 3:00 PM (20 minutes)

Presenter: SANDRO DONADI

Session Classification: Fundamental Science Review

Contribution ID: 19

Type: **not specified**

Atom interferometry for testing the equivalence principle in space

Thursday, September 23, 2021 3:15 PM (20 minutes)

Presenter: NACEUR GAALOUL

Session Classification: Fundamental Science Review

Contribution ID: 20

Type: **not specified**

Dark Matter and Gravitational Waves

Thursday, September 23, 2021 3:30 PM (20 minutes)

Presenter: OLIVER BUCHMUELLER

Session Classification: Fundamental Science Review

Contribution ID: 21

Type: **not specified**

Dark Energy

Thursday, September 23, 2021 3:45 PM (20 minutes)

Presenter: NAN YU

Session Classification: Fundamental Science Review

Contribution ID: 22

Type: **not specified**

Large Scale Strontium Pathfinder Projects

Friday, September 24, 2021 9:00 AM (20 minutes)

Presenter: RICHARD HOBSON

Session Classification: Towards a Community Roadmap

Contribution ID: 23

Type: **not specified**

Large Scale Rubidium Pathfinder Projects

Friday, September 24, 2021 9:20 AM (20 minutes)

Presenter: BENJAMIN CANUEL

Session Classification: Towards a Community Roadmap

Contribution ID: 24

Type: **not specified**

MAIUS and related activities

Friday, September 24, 2021 9:40 AM (20 minutes)

Presenter: ERNST RASEL

Session Classification: Towards a Community Roadmap

Contribution ID: 25

Type: **not specified**

Technology Perspective

Friday, September 24, 2021 10:00 AM (20 minutes)

Presenter: KAI BONGS

Session Classification: Towards a Community Roadmap

Contribution ID: 26

Type: **not specified**

ESA

Friday, September 24, 2021 11:00 AM (30 minutes)

Presenter: EAMONN MURPHY & ERIC WILLE & PIERRE WALLER

Session Classification: Towards a Community Roadmap

Contribution ID: 27

Type: **not specified**

ASI

Friday, September 24, 2021 11:30 AM (15 minutes)

Presenter: MARCO DI CLEMENTE

Session Classification: Towards a Community Roadmap

Contribution ID: 28

Type: **not specified**

CNES

Friday, September 24, 2021 11:45 AM (15 minutes)

Presenter: THOMAS LEVEQUE

Session Classification: Towards a Community Roadmap

Contribution ID: 29

Type: **not specified**

DLR

Friday, September 24, 2021 12:00 PM (15 minutes)

Presenter: KARIN KIEWISCH

Session Classification: Towards a Community Roadmap

Contribution ID: **30**

Type: **not specified**

UKSA

Friday, September 24, 2021 12:15 PM (15 minutes)

Presenter: BENJAMIN WELLS

Session Classification: Towards a Community Roadmap

Contribution ID: 31

Type: **not specified**

Report from Atomic Clocks Breakout Sessions

Friday, September 24, 2021 1:15 PM (10 minutes)

Presenter: CHRISTIAN LISDAT

Session Classification: Community Roadmap Discussion

Contribution ID: 32

Type: **not specified**

Report from Earth Observation Breakout Sessions

Friday, September 24, 2021 1:25 PM (10 minutes)

Presenter: FEDERICA MIGLIACCIO, RENE FORSEBERG

Session Classification: Community Roadmap Discussion

Contribution ID: 33

Type: **not specified**

Report from Fundamental Physics Breakout Sessions

Friday, September 24, 2021 1:35 PM (10 minutes)

Presenter: JOHN ELLIS

Session Classification: Community Roadmap Discussion

Contribution ID: 34

Type: **not specified**

Report from General Perspectives Breakout Sessions

Friday, September 24, 2021 1:45 PM (10 minutes)

Presenter: MARILÙ CHIOFALO, ROSA POGGIANI

Session Classification: Community Roadmap Discussion

Contribution ID: 35

Type: **not specified**

Discussion

Friday, September 24, 2021 1:55 PM (30 minutes)

Presenter: ALL

Session Classification: Community Roadmap Discussion

Contribution ID: 36

Type: **not specified**

Earth Observation: ESA perspective

Thursday, September 23, 2021 1:45 PM (15 minutes)

Presenter: OLIVIER CARRAZ

Session Classification: Earth Observation Reviews

Contribution ID: 37

Type: **not specified**

The local dark sector

Thursday, September 23, 2021 10:50 AM (10 minutes)

Presenter: JOEL BERGE

Session Classification: Voyage2050 White Paper Reviews

Contribution ID: **38**

Type: **not specified**

NASA

Friday, September 24, 2021 12:30 PM (15 minutes)

Presenter: ULF ISRAELSSON

Session Classification: Towards a Community Roadmap