

4th ASI/COSMOS Workshop: Ground-based CMB experiments



Report of Contributions

Contribution ID: 1

Type: **not specified**

welcome

Monday, March 4, 2019 9:00 AM (5 minutes)

Contribution ID: 2

Type: **not specified**

The COSMOS program

Monday, March 4, 2019 9:05 AM (25 minutes)

Presenter: VITTORIO, Nicola (ROMA2)

Session Classification: Introduction

Contribution ID: 3

Type: **not specified**

CMB ground-based experiments: European and International context

Monday, March 4, 2019 9:30 AM (25 minutes)

Presenter: BERSANELLI, Marco (MI)

Session Classification: Introduction

Contribution ID: 4

Type: **not specified**

Foregrounds at low frequencies

Monday, March 4, 2019 9:55 AM (25 minutes)

Presenter: KRACHMALNICOFF , Nicoletta (Sissa)

Session Classification: Introduction

Contribution ID: 5

Type: **not specified**

STRIP: the ground-based instrument of LSPE

Monday, March 4, 2019 10:50 AM (25 minutes)

Presenter: VILLA, Fabrizio (INAF / IASF-Bologna)

Session Classification: Ground-based experiments in Italy and in Europe

Contribution ID: 6

Type: **not specified**

QUBIC: status and perspectives

Monday, March 4, 2019 11:15 AM (25 minutes)

Presenter: TORCHINSKI, Stephen

Session Classification: Ground-based experiments in Italy and in Europe

Contribution ID: 7

Type: **not specified**

QUIJOTE and TMS

Monday, March 4, 2019 11:40 AM (25 minutes)

Presenter: RUBIÑO-MARTIN, José Alberto

Session Classification: Ground-based experiments in Italy and in Europe

Contribution ID: 8

Type: **not specified**

C-BASS

Monday, March 4, 2019 12:05 PM (25 minutes)

Presenter: TAYLOR, Angela

Session Classification: Ground-based experiments in Italy and in Europe

Contribution ID: 9

Type: **not specified**

Low frequency efforts in Germany

Monday, March 4, 2019 2:00 PM (25 minutes)

Presenter: BASU, Aritra

Session Classification: Ground-based experiments in Italy and in Europe

Contribution ID: **10**

Type: **not specified**

SPASS & future prospects

Monday, March 4, 2019 2:25 PM (25 minutes)

Presenter: CARRETTI, Ettore

Session Classification: Ground-based experiments in Italy and in Europe

Contribution ID: 11

Type: **not specified**

COSMO: spectral measurements from Dome C

Monday, March 4, 2019 2:50 PM (25 minutes)

Presenter: DE BERNARDIS, Paolo (ROMA1)

Session Classification: Ground-based experiments in Italy and in Europe

Contribution ID: 12

Type: **not specified**

Short-Mid Term (2023): STRIP-2

Monday, March 4, 2019 3:40 PM (25 minutes)

- STRIP2 design options (KIDs or TES at W band)
- Atmospheric monitor

Presenters: FRANCESCHET, Cristian; MANDELLI, Stefano

Session Classification: Future Perspectives

Contribution ID: 13

Type: **not specified**

Long Term (2027): European Low Frequency Survey (ELFS)

Monday, March 4, 2019 4:05 PM (25 minutes)

- Full sky, 5-120GHz, HEMTs + KIDs
- Two large Aperture Telescope (6-m class)
- Sites: Tenerife (North) and TBC [Llaima, Atacama, SP] (South)

Primary author: JONES, Mike

Co-authors: BACCIGALUPI, Carlo (TS); BERSANELLI, Marco (MI); MENNELLA, Aniello (MI); RUBIÑO-MARTIN, José Alberto

Presenters: JONES, Mike; BACCIGALUPI, Carlo (TS); BERSANELLI, Marco (MI); MENNELLA, Aniello (MI); RUBIÑO-MARTIN, José Alberto

Session Classification: Future Perspectives

Contribution ID: 14

Type: **not specified**

Participation in US-led efforts

Monday, March 4, 2019 4:30 PM (25 minutes)

- Simons Array, Simons Observatory, Stage IV s
- Low frequency array for South Pole LAT to observe Bicep2 region?
- STRIP focal plane to be re-used at SP (SPT or Euro LAT)

Presenter: NATI, Federico

Session Classification: Future Perspectives

Contribution ID: 15

Type: **not specified**

SRT as follow up of CMB measurements

Monday, March 4, 2019 4:55 PM (25 minutes)

Presenter: NAVARRINI, Alessandro

Session Classification: Future Perspectives

Contribution ID: 16

Type: **not specified**

HEMTS in Europe

Tuesday, March 5, 2019 9:00 AM (25 minutes)

Presenter: LIMITI, Ernesto

Session Classification: Technology to support future CMB experiments (focus on STRIP2 and ELFS)

Contribution ID: 17

Type: **not specified**

TES: applications to W band and below

Tuesday, March 5, 2019 9:25 AM (25 minutes)

Presenter: GATTI, Flavio (GE)

Session Classification: Technology to support future CMB experiments (focus on STRIP2 and ELFS)

Contribution ID: **18**

Type: **not specified**

KIDs for W band in Italy

Tuesday, March 5, 2019 9:50 AM (25 minutes)

Presenter: PAIELLA, Alessandro (ROMA1)

Session Classification: Technology to support future CMB experiments (focus on STRIP2 and ELFS)

Contribution ID: 19

Type: **not specified**

KIDs for W band in France

Tuesday, March 5, 2019 10:15 AM (25 minutes)

Presenter: MONFARDINI, Alessandro (CNRS Grenoble)

Session Classification: Technology to support future CMB experiments (focus on STRIP2 and ELFS)

Contribution ID: 21

Type: **not specified**

Antenna systems and characterization through UAV

Tuesday, March 5, 2019 11:10 AM (25 minutes)

Presenters: VIRONE, Giuseppe; PEVERINI, Oscar (IEIIT - CNR)

Session Classification: Technology to support future CMB experiments (focus on STRIP2 and ELFS)

Contribution ID: 22

Type: **not specified**

Optical design

Tuesday, March 5, 2019 11:35 AM (25 minutes)

Primary author: REALINI, Sabrina

Co-author: SANDRI, Maura (INAF - IASF Bologna)

Presenters: REALINI, Sabrina; SANDRI, Maura (INAF - IASF Bologna)

Session Classification: Technology to support future CMB experiments (focus on STRIP2 and ELFS)

Contribution ID: 23

Type: **not specified**

Calibration and testing

Tuesday, March 5, 2019 12:00 PM (25 minutes)

Primary author: ZANNONI, Mario (MIB)

Co-authors: CUTTAIA, Francesco (INAF - IAFS - Bologna); FRANCESCHET, Cristian

Presenters: ZANNONI, Mario (MIB); CUTTAIA, Francesco (INAF - IAFS - Bologna); FRANCESCHET, Cristian

Session Classification: Technology to support future CMB experiments (focus on STRIP2 and ELFS)

Contribution ID: 24

Type: **not specified**

Computing infrastructure in Europe, challenges in data analysis

Tuesday, March 5, 2019 2:30 PM (25 minutes)

Primary author: PIACENTINI, Francesco (ROMA1)

Co-authors: NATOLI, Paolo (FE); TOMASI, Maurizio (MI); ZACCHEI, Andrea (INAF-OATs)

Presenters: PIACENTINI, Francesco (ROMA1); NATOLI, Paolo (FE); TOMASI, Maurizio (MI); ZACCHEI, Andrea (INAF-OATs)

Session Classification: Data analysis and performance forecast

Contribution ID: 25

Type: **not specified**

Defining the Scientific Requirements for ELFS

Tuesday, March 5, 2019 2:55 PM (25 minutes)

- Preliminary requirements (present status)
- Coordination of future work to fully establish ELFS requirements

Presenter: BACCIGALUPI, Carlo (Sissa)

Session Classification: Data analysis and performance forecast