

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



## Report of Contributions

Contribution ID: 1

Type: **not specified**

## welcome

*Monday, 4 March 2019 09:00 (5 minutes)*

Contribution ID: 2

Type: **not specified**

## **The COSMOS program**

*Monday, 4 March 2019 09:05 (25 minutes)*

**Presenter:** VITTORIO, Nicola (ROMA2)

**Session Classification:** Introduction

Contribution ID: 3

Type: **not specified**

## **CMB ground-based experiments: European and International context**

*Monday, 4 March 2019 09:30 (25 minutes)*

**Presenter:** BERSANELLI, Marco (MI)

**Session Classification:** Introduction

Contribution ID: 4

Type: **not specified**

## **Foregrounds at low frequencies**

*Monday, 4 March 2019 09:55 (25 minutes)*

**Presenter:** KRACHMALNICOFF , Nicoletta (Sissa)

**Session Classification:** Introduction

Contribution ID: 5

Type: **not specified**

## **STRIP: the ground-based instrument of LSPE**

*Monday, 4 March 2019 10:50 (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, 4 March 2019 11:15 (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, 4 March 2019 11:40 (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, 4 March 2019 12:05 (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, 4 March 2019 14:00 (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, 4 March 2019 14:25 (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, 4 March 2019 14:50 (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, 4 March 2019 15:40 (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, 4 March 2019 16:05 (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, 4 March 2019 16:30 (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, 4 March 2019 16:55 (25 minutes)*

**Presenter:** NAVARRINI, Alessandro

**Session Classification:** Future Perspectives



Contribution ID: 16

Type: **not specified**

## HEMTS in Europe

*Tuesday, 5 March 2019 09:00 (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, 5 March 2019 09:25 (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, 5 March 2019 09:50 (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, 5 March 2019 10:15 (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, 5 March 2019 11:10 (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, 5 March 2019 11:35 (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, 5 March 2019 12:00 (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, 5 March 2019 14:30 (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, 5 March 2019 14:55 (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