

The banner features a background of CMB polarization maps with a color scale from blue to red. The text is overlaid on a semi-transparent white box.

CMB foregrounds for B-mode studies

Tenerife, Spain, October 15-18, 2018

SCIENTIFIC PROGRAM

Monday, OCTOBER 15th, 2018.

8:30-9:20 Registration.

9:20-9:30 Welcome and opening of the meeting.

9:30-11:00 [1.5h] **Session I. Current & planned CMB polarization experiments**

- **Galli.** Planck (20')
- **Marriage.** CLASS. (20')
- **Poletti.** PolarBear/Simons Array. (20')
- **Hill.** Simons Observatory (20')

11:00-11:30 [30min] Coffee break

11:30-13:30 [2h] **Session I (cont')**

- **Calabrese.** ACTPol (20')
- **Borrill.** CMB-S4. (20')
- **Pryke.** BICEP2 (20')
- **Taylor.** CBASS (20')
- **Rubiño-Martín.** QUIJOTE (20')
- **Carretti.** S-PASS (20'). Presented by C. Baccigalupi.

13:30-15:00 [1.5h] Lunch break

15:00-16:30 [1.5h] **Session I (cont')**

- **Mennella.** LSPE (20')
- **Tajima.** Groundbird (20')
- **Hamilton.** QUBIC (20')
- **Ganga.** E-CMB (20')

16:30-17:00 [30min] Coffee break

17:00-18:00 [1:00h] **Session I (cont')**

- **Kaplan.** Greenpol (15')
- **Hill-Valler.** NextBASS (15')
- **Harrington.** VPMs CLASS (15')

19:30-21:00 Welcome cocktail & concert.

Tuesday, OCTOBER 16th, 2018.

9:00-11:00 [2h] **Session I (cont'). Planned CMB polarization space missions.**

- **Hazumi.** Litebird (20')
- **Hanany.** PICO (20')
- **Delabrouille.** CORE/CMB-Bharat (20')
- **Chluba.** CMB spectroscopy (20')

Session II. Dust.

- **Puget.** Dust polarised foregrounds from PLANCK. (25'). Presented by J. Aumont

11:00-11:30 [30min] Coffee break

The banner features a background image of a Cosmic Microwave Background (CMB) map, showing a complex pattern of temperature fluctuations in shades of orange, red, and yellow. The text is overlaid on the top left of this image.

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11:30-13:30 [2h] **Session II. Dust (cont')**.

- **Boulinger.** Dust physics from Planck (25')
- **Tassis.** PASIPHAE (20')
- **Pelgrims.** Modelling dust emission (20')
- **Mangilli.** Dust moments: modelling of polarised dust emission (15')
- **Hanany.** IDS (20')
- **Aumont.** PILOT (20')

15:30-20:00 Visit to Teide Observatory.

Wednesday, OCTOBER 17th, 2018.

9:00-11:00 [2h] **Session III. AME and synchrotron.**

- **Peel.** AME review (25')
- **Hensley.** AME models (25')
- **Genova-Santos.** AME polarization with QUIJOTE (15')
- **Poidevin.** New AME sources with QUIJOTE (15')
- **Abitbol.** AME in S140 (15')
- **Leahy.** Synchrotron review (25')

11:00-11:30 [30min] Coffee break

11:30-13:30 [2h] **Session III. AME and synchrotron (cont')**

- **Vidal.** Large scale Synchrotron and Loop I (25')
- **Krachmalnicoff.** High galactic latitude synchrotron (25')
- **Watson.** 3D model of North Polar Spur (15')
- **Ruiz-Granados.** The FAN region (15')
- **Jew.** C-BASS synchrotron (15')
- **Harper.** C-BASS high galactic latitude synchrotron (15')

13:30-15:00 [1.5h] Lunch break

15:00-16:30 [1.5h] **Session III. Synchrotron (cont')**

- **Eimer.** CLASS 40GHz results (15')
- **Vansyngel.** QUIJOTE results on synchrotron (15')

Session IV. Extragalactic modelling.

- **de Zotti.** Extragalactic research paths explored by space-borne CMB experiments (25')
- **Massardi.** The support of ground-based radio-source observations to cosmological experiments (25')

16:30-17:00 [30min] Coffee break

17:00-18:35 [1:35h] **Session IV (cont'). Extragalactic modelling.**

- **Partridge.** A brief history of foregrounds. (25')
- **González-Nuevo.** Extragalactic sources from Planck (25')
- **Puglisi.** Forecasting polarised radiosources (15')
- **Herranz.** Polarised sources in QUIJOTE maps (15')
- **Grumitt.** C-BASS point sources. (15')

20:00 Conference dinner

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Thursday, OCTOBER 18th, 2018.

9:00-11:00 [2h] **Session V. Component separation.**

- **Barreiro.** The Planck 2018 CMB maps (25')
- **Remazeilles.** GNILC (20')
- **Cardoso.** SMICA (25')
- **López-Caniego.** Point-source extraction (25')
- **Casaponsa.** Neural networks (20')

11:00-11:30 [30min] Coffee break

11:30-13:30 [2h] **Session V (cont'). Component separation.**

- **Poletti.** FGBuster (20')
- **Liu.** Morphology of E&B foregrounds (15')
- **López-Caraballo.** Hybrid ILC (15')
- **Abitbol.** CMB spectral distortions (15')
- **Irfan.** New model sparsity (15')

Session VI. Sky models and forecasts.

- **Treelogic.** RADIOFOREGROUNDS platform. Presented by Rubino-Martin (15')

13:30-15:00 [1.5h] Lunch break

15:00-16:20 [1:20h] **Session VI (cont'). Sky models and forecasts.**

- **Remazeilles.** Lessons from CORE (25')
- **Delabrouille.** PSM (25')
- **Rotti.** Moment expansion method (25')

16:20-16:50 [30min] Coffee break

16:50-18:15 [1:25h] **Session VI (cont'). Forecasting future experiments.**

- **Errard.** Forecasting galactic foregrounds cleaning with parametric, pixel-based, max-likelihood approach (25')
- **Zonca.** PySM (20')
- **Fernandez-Cobos.** Forecasts with forthcoming experiments (20')
- **Round table: "CMB foregrounds for B-mode studies".** Moderator: Baccigalupi.

End of meeting.
