"CMB Cross-correlation WG"

Update on the Interfaces with CMB Collaborations (SO)

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Context & situation

- Invitation of D. Spergel to a colloquium in SISSA (initially May 2020)
- Discussion on how to initiate scientific collaboration, identify common projects and set-up path for an MoU
- \rightarrow Organisation of a first F2F meeting (initially May 2020)
- Colloquium and meeting cancelled \rightarrow Explore some possible activities
- See following slides
- In parallel, SO collaboration invited members of large collaborations (LSST, Euclid, SKA, ...) 2 days meeting on "expectations from SO" in June/July TBC

 \rightarrow Ongoing planning for CMBX implies intensification of related activities

First Euclid CMBXC/SO workshop

SISSA, Fall 2020, TBD

Proposed structure and purpose

General purpose

- Introduce Euclid CMBXC and SO groups
- Discuss items of common interests
- Compare methodologies and goals
- Establish links between colleagues working on common topics
- Set organization for following and developing joint activities
- Set schedule for future meetings
- Set path for agreement on common Euclid SO projects on CMBXC
- Excite/inform Euclid scientists about SO
- Excite/inform SO scientists about Euclid
- Meeting with overview talks, short presentations & discussion sessions

Proposed schedule

.Day 1

- 1. 9:00 Carlo Baccigalupi: CMBXC in Euclid
- 2. **10:00** Coffee Break
- 3. 10:30 Suzanne Staggs: SO & AWG
- 4. 11:30 Giulio Fabbian: Lensing in Euclid
- 5. 12:00 Blake Sherwin [with SO L3]: Lensing in SO
- 6. 12:30 Lunch
- 7. 13:30 Speaker TBD: Short Presentation 1 TBD
- 8. 13:45 Speaker TBD: Short Presentation 2 TBD
- 9. 14:00 Speaker TBD: Short Presentation 3 TBD
- 10. 14:15 Speaker TBD: Short Presentation 4 TBD
- 11. 14:30 Nabila Aghanim: Thermal SZ and Euclid
- 12. 15:00 [SO SZ.1] Matt Hilton: Thermal SZ in SO
- 13. **15:30** Coffee Break
- 14. **16:00** Splinter Sessions
 - a. Thermal SZ organizers Marian Douspis, Laura Salvati, SO SZ.1
 - b. Lensing organizers Carlo Baccigalupi, Neelima Sehgal & others from SO L3
- 15. **17:00** Summary of Splinters a & b

Color Code: not up to date confirmed remote participation pending

Proposed schedule

.Day 2

Color Code: not up to date confirmed remote participation pending

- 1. 9:00 Manu Schaan: Overview on Kinetic SZ
- 2. 10:00 Coffee Break
- 3. 10:30 Joop Schaye: Populations and Feedback in Euclid
- 4. 11:00 Stefania Amodeo [with SO SZ.2]: Populations and Feedback in SO
- 5. 11:30 Simone Ferraro [with SO SZ.2] : Kinetic SZ in SO / split between patchy and homogeneous TBD
- 6. 12:00 Carlos Hernandez-Monteagudo: Kinetic SZ with Euclid and CMB
- 7. 12:30 Lunch
- 8. 13:30 Speaker TBD: Short Presentation 1 TBD
- 9. 13:45 Speaker TBD: Short Presentation 2 TBD
- 10. **14:00** Splinter Sessions:
 - a. Populations and Feedback organizers Andrea Lapi, SO SZ.1 and SZ.2 TBC
 - b. Kinetic SZ organizers Joseph Kuruvilla, Rachel Bean, SO SZ.2 TBC
- 11. **15:00** Summary of Splinters a & b
- 12. **15:30** Coffee Break
- 13. 16:00 SISSA Colloquium by David Spergel: New Avenues in the new decade for Cosmology

Proposed schedule

Day 3

- 1. 9:00 [SO FG.1] CIB in SO
- 2. 9:30 Olivier Dore': CIB in Euclid
- 3. **10:00** Speaker TBD: Short Presentation 1 **TBD**
- 4. 10:15 Speaker TBD: Short Presentation 2 TBD
- 5. **10:30** Coffee Break
- 6. 11:00 SO mbs team, TBD: SO Simulations
- 7. 11:30 Carmelita Carbone: Euclid CMBXC Simulations
- 8. 12:00 Lunch
- 9. 13:00 Speaker TBD: Short Presentation 1 TBD
- 10. 13:15 Speaker TBD: Short Presentation 2 TBD
- 11. 13:30 Marina Migliaccio: CMBXC Likelihood in Euclid
- 12. 14:00 SO LT: Likelihood in SO
- 13. **14:30** Splinter Sessions:
 - a. CIB organizers [SO.FG.1], Olivier Dore'
 - b. Likelihood organizers Fabien Lacasa, Paolo Natoli, SO LT
 - c. Simulations organizers Carmelita Carbone, SO.MBS
- 14. **15:30** Summary of Splinters a, b & c
- 15. **16:00** Summary Panel

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Our desiderata from the Meeting

- Everybody happy
- Lots of science & New links and collaborations
- Build the science case that will help motivate MoU(s) and set up structure for the connections that will help build future working groups and collaborations

Speakers and Splinter Session Organizers

- Speakers:
 - Invited, to review broad topics investigated in the groups, highlight ongoing research
 - Contributed, to stimulate junior participants to show their own ongoing research
- Splinter Sessions Organizers:
 - Invite the relevant people & Make sure remote connection is available,
 - split time in discussions, and talks in case they're needed,
 - Prepare an executive summary!

Forthcoming Actions

- Defeat Covid19 (or achieve thermalization)
- Feedback from AWGs
- Finalize schedule
- Set dates for the meeting in the Fall
- Help splinter session organization
- ...

END