

Dear Tzu-Ching,

We thank you for your chapter proposal submission to the meeting Advancing Astrophysics with the SKA. Interest in the meeting is high and we received almost 170 submissions for chapters and related talks.

Your proposal was reviewed by the SOC and we are happy to offer you the opportunity to present your chapter “CO/CII intensity mapping during EoR” as a medium/short talk at the meeting. The exact talk lengths are still being finalized but you can expect to have 10-15 minutes available for your presentation.

Please let us know as soon as you can whether you accept this offer, as we have a waiting list of those wishing to give a presentation.

In order to be confirmed as a speaker on the final program, we ask that you **submit your draft chapter by May 9** (see attached instructions). At that time a final decision will be made on whether your talk will be included in the final program – please see the attached instructions on how that decision will be made.

We look forward to your participation in the meeting in June and your contribution to the science book.

Regards,
Leon Koopmans
on behalf of the SOC

Instructions to Authors

We encourage chapter submissions from all members of the scientific community, regardless of whether or not you are presenting a talk at the meeting.

Goals of individual chapters:

- a) Self-contained description of a science application including background and motivation
- b) Demonstrate the science outcomes that are enabled by the capabilities of a particular component of the SKA Phase 1 deployment
- c) Document the extent to which scientific outcomes might be delivered during early science operations of SKA Phase 1, in a period when performance is still ramping up to its final anticipated level (e.g., 50% capability)
- d) Anticipate the science outcomes enabled by the capabilities of SKA Phase 2

Performance Assumptions

It's important that a consistent set of performance assumptions is used in preparing chapters. To that end, we request that the science outcomes are assessed for three well-defined scenarios described below:

1) The SKA1 Baseline Design as published in March 2013 and with the corresponding Science capabilities described in the September 2013 Performance Memo (*see Conference web page for these documents*).

– The basic configuration design philosophy of a dense core combined with logarithmic arms yields about 50% of the total "natural" array sensitivity over a wide range of possible beam sizes.

– In Phase 1 it is anticipated that only three of the five frequency bands defined in the Baseline Design of SKA1-mid will be populated. In preparing a chapter, you can assume that any three of the five bands are available, giving justification as necessary for why particular bands are employed

– Similarly, for SKA1-survey it is anticipated that only one of the three PAF bands defined in the Baseline Design will be populated. In preparing a chapter, you can assume that any one of the three bands is available, giving justification as necessary for why that particular band is employed.

The baseline band definitions for MID and SUR in MHz are:

Band	MID	SUR
1	350-1050	350-900
2	950-1760	650-1670
3	1650-3050	1500-4000
4	2800-5180	NA
5	4600-13800	NA

2) An "early science" phase of deployment for each SKA1 component (SKA1-low, SKA1-survey, SKA1-mid), where sensitivity has grown to about 50% of its fully specified level.

3) SKA Phase 2 performance that includes:

- 4x SKA1 sensitivity 50-350 MHz
- 10x SKA1 sensitivity 350 MHz - 24 GHz (including deployment of all five frequency bands)
- 50% of the "natural" sensitivity of the facility over a wide range of beam size
- 20x SKA1 FoV 350 MHz - 1.5 GHz
- 20x SKA1 maximum angular resolution 50 MHz - 24 GHz

Page limits

There is no formal upper or lower limit to chapter length, but we are anticipating that longer contributions will be under 15 A4 pages while shorter contributions will be less than 8 A4 pages. Clarity and conciseness are encouraged, and the chapters will be edited by the SOC. The **latex template** will be available via the conference website by the end of next week, so please check for it.

Decision on Meeting Presentations

Draft Chapters should be submitted by **May 9**. These submissions should demonstrate that you have considered and begun to address the “Goals of Individual Chapters” as described above. The aim of the draft submission is to aid the SOC in determining the degree of your commitment to producing a well-considered presentation and/or chapter. For presenters this is vital to ensure your place in the final program in June.