

CMB-S4 Technology Development Detector and Readout Subgroup

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01-11-18

Agenda

- Combined Spreadsheet Review
- Division of Topics
- Timeline

Combined Spreadsheet Review

- TD Topics
 - Try for targets that can be qualitative and verified (e.g. P_{sat} , or optical bandpass)
 - Mid-level granularity (more detailed than TES, less detailed than a specific material or bolometer design)
- TD Detail / Description
 - Can be used to clarify what falls within the topics
 - Highlight the parameter being evaluated
- Point of Contact
 - Who is taking responsibility for evaluating the topic
 - Ideally will have two people from different projects

Combined Spreadsheet Review

- **Baseline/TD Goal Reference**
 - Information on where the TD goal values came from
 - Can be references, point to another expert in the field, results from simulations or another working group
 - Can serve as good reference list for future documents developed from the spreadsheet
- **Baseline**
 - Current values for Stage-3 experiments or laboratory tests
 - What can be done right now

Combined Spreadsheet Review

- TD Goal
 - Values that will be required for CMB-S4
 - Best estimates from CDT report / forecasting groups, etc.
- Impact
 - How will work (or lack of work) on this topic impact CMB-S4
 - Can be both risk / benefit to the project
- TD
 - Time and cost to complete required TD
 - Given time/cost investment, how likely is it the TD goal is reached

Proposed General Timeline

- Preliminary goal is completed sub-group spreadsheets by Argonne Workshop (March 5-7)
- Meetings until workshop
 - Today – division of topics
 - Jan 18 – updates on topics, challenges, etc
 - Jan 25 – Completed Baseline / TD Goals
 - Feb 1 – Combined Call
 - Feb 8 – completed Impact
 - Feb 15 – completed TD
 - Feb 22 - Review of evaluations
 - Mar 1 – Combined Call