

Beyond PLANCK

Deliverable 7.3: Paper release

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Work Package WP7 – Physical Interpretation

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Revision History

Version	Authors	Date	Changes
1.0	Hans Kristian Eriksen	November 30th, 2020	Initial Version

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REFERENCE	TITLE
<i>Pipeline</i>	
BeyondPlanck Collaboration (2020) . . .	I. Global Bayesian analysis of the <i>Planck</i> Low Frequency Instrument data
Keihänen et al. (2020)	II. CMB mapmaking through Gibbs sampling
Galloway et al. (2020a)	III. Computational infrastructure and Commander3
Brilenkov et al. (2020)	IV. Time-ordered data simulations
Gerakakis et al. (2020)	V. Open Science and reproducibility
<i>Instrument characterization</i>	
Ihle et al. (2020)	VI. Noise characterization and modelling
Gjerløw et al. (2020)	VII. Calibration
Galloway et al. (2020b)	VIII. Sidelobe corrections
Svalheim et al. (2020a)	IX. Bandpass and beam leakage corrections
<i>Cosmological and astrophysical results</i>	
Suur-Uski et al. (2020)	X. LFI frequency map posteriors
Colombo et al. (2020)	XI. CMB constraints
Paradiso et al. (2020)	XII. Cosmological parameter estimation with end-to-end error propagation
Andersen et al. (2020)	XIII. Intensity foregrounds, degeneracies and priors
Svalheim et al. (2020b)	XIV. Polarized synchrotron emission
Herman et al. (2020)	XV. Limits on polarized anomalous microwave emission
<i>External analysis</i>	
Aurlen et al. (2020)	XVI. Application to simulated <i>LiteBIRD</i> observations
Watts et al. (2020)	XVII. Application to <i>WMAP</i>
Galeotta et al. (2020)	XVIII. End-to-end validation of BEYONDPLANCK

Table 1: List of BeyondPlanck papers in preparation.

1 Summary

The BeyondPlanck methods and results will be summarized in a series of scientific articles published in *Astronomy and Astrophysics*. Table 1 shows the list of currently planned papers, all of which are in preparation in various stages. On November 30th 2020, at the time of the formal end of the project, five papers have already been submitted to <http://www.arxiv.org> and are posted on the project webpage (<http://beyondplanck.science>), namely papers I, VI, VII and XIV. Another ten papers are scheduled to be submitted before January 31st 2021, namely II, III, V, VIII, IX, X, XI, XII, XIII and XV, while the three last papers (XVI, XVII and XVIII) are on an open schedule, and will be submitted whenever they are completed.

The papers that are ready for submission in by January 31st 2021 will be published jointly in an A&A Special Issue called “BeyondPlanck – end-to-end Bayesian analysis of Planck LFI”, while the delayed papers will be published as regular A&A papers. This arrangement has already been agreed with the A&A editor.