

Mapmaking pipelines comparison from Chile for CMB-S4

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CMB-S4 will collect data in the form of continuous time-ordered data streams spanning years of observation time with hundreds of thousands of detectors, which must be combined into maps of sky emission, a process known as mapmaking.

The baseline mapmaking pipeline for CMB-S4 relies on timestream filtering to reduce long-term drifts of various origins. This impacts the measurement of large scale modes, and therefore may not be optimal for the future observatory.

I will present an alternative map-making pipeline that uses the cross-linking of Chilean scans and compare the performance of these two approaches on simulated data streams.

Auteur principal: TANG, Julien

Orateur: TANG, Julien

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