

European Research Council
Established by the European Commission



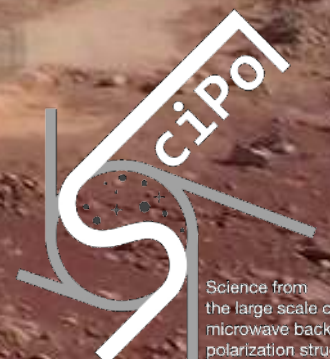
Coordinator: Josquin Errard

Budget: 2M€ for 5 years, 2023 -> 2028

hiring of ~ 7 persons total (PhDs, postdocs, software engineers)

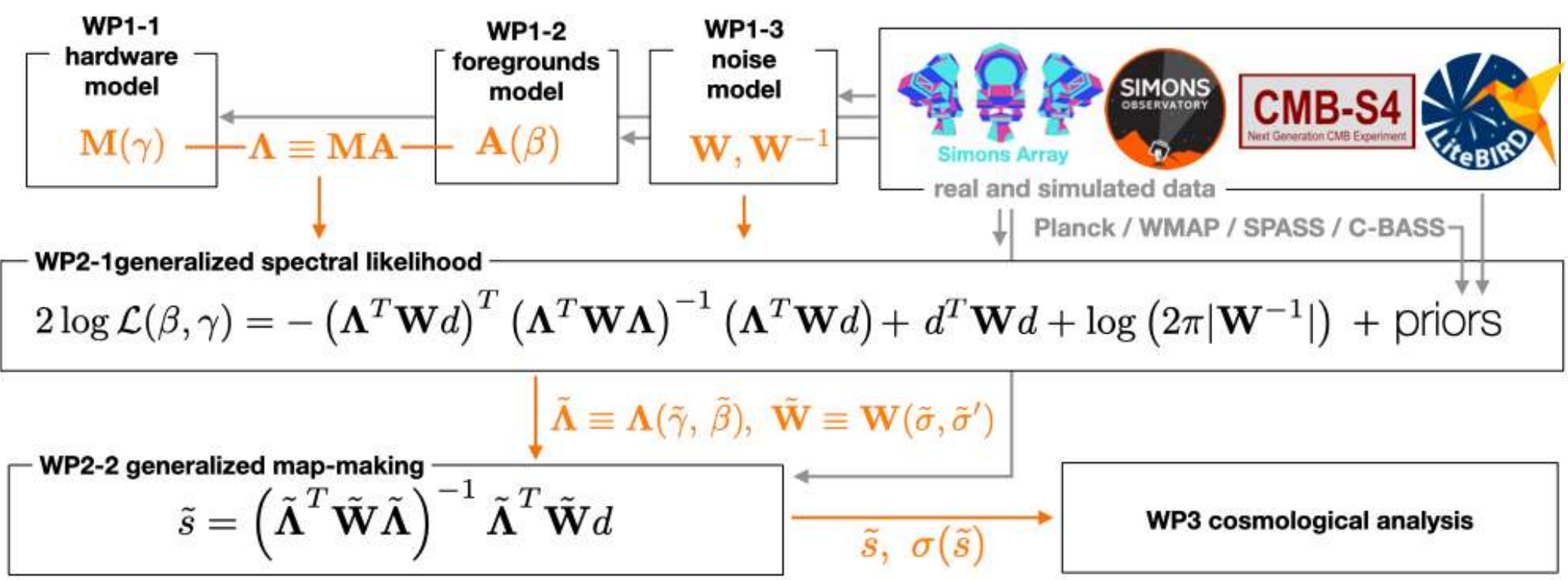
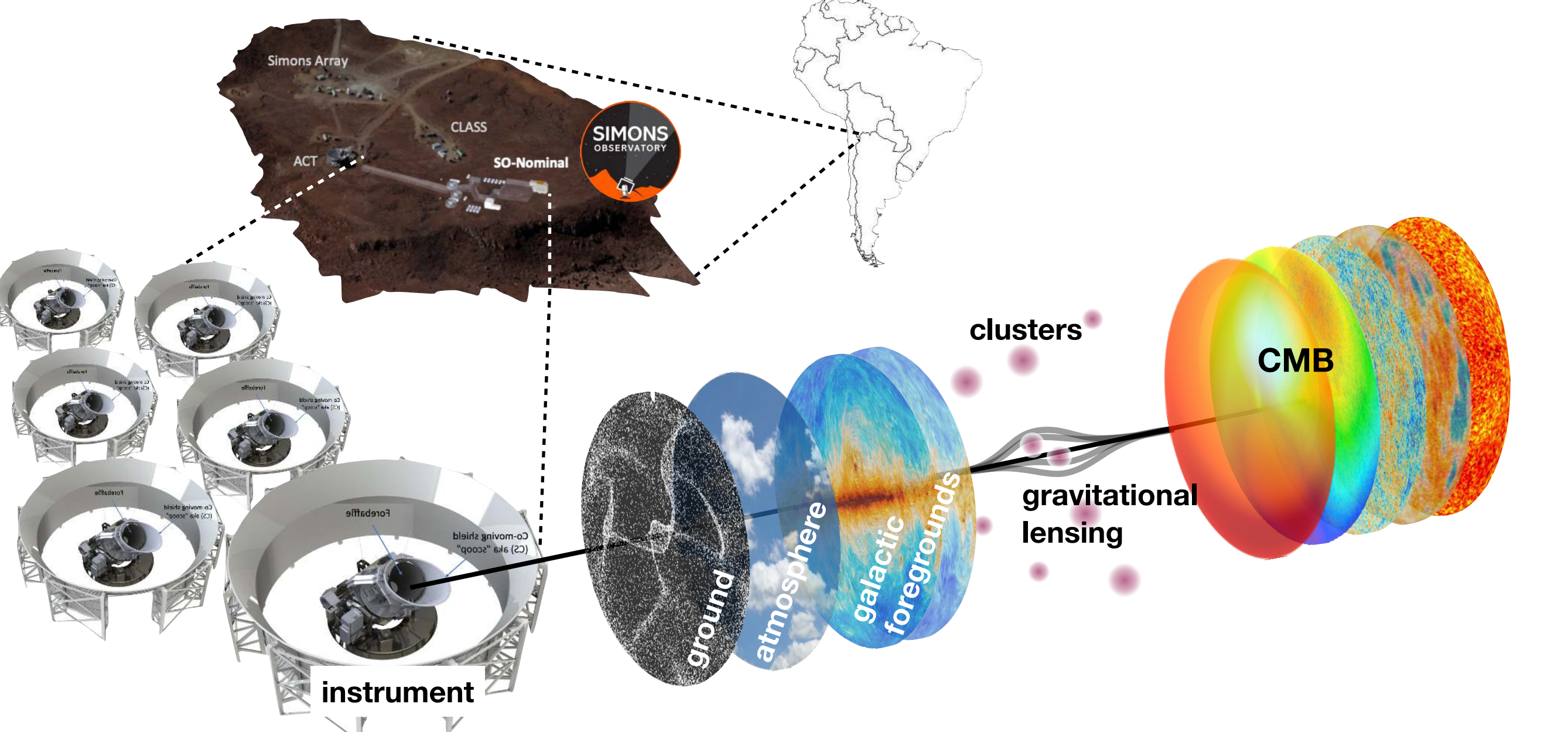
Science from the large scale cosmic microwave background polarization structure

a.k.a. have a key contribution to one of the first characterizations of primordial B-modes using among the best available data sets



credits for the atmosphere simulation: R. Keskitalo (LBNL)

<https://crd.lbl.gov/news-and-publications/news/2017/a-toast-for-next-generation-cmb-experiments/>



Pierre Chanial (IR)

IR ?

M2

WP1-1 inst. modeling [PI + Ema Tsang (PhD)]

WP1-2 foregrounds modeling [PI + Arianna Rizzieri (PhD)]

WP1-3 Simon Biquard

WP1-3 noise modeling [PI + Benjamin Beringue (PD)]

WP2-1 generalized spectral likelihood [PI + Benjamin Beringue (PD)]

WP2-2 Arianna Rizzieri + Simon Biquard

WP2-2 generalized map-making [PI + PD2]

WP2-3 optimization and simulations [PI + PD2]

WP3-1 Magdy Morshed

M2

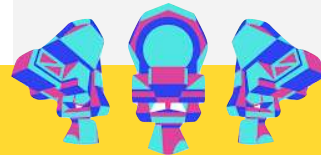
WP3-1 cosmological likelihood [PI + PD3 + PhD3]

WP3-2 delensing [PI + PD3 + PhD3]

WP3-3 robustness [PI + PD3 + PhD3]

WP4 popularization book [PI + illustrator + E. Barlier]

LiteBIR



on-going Simons Array observations

LiteBIRD
≥ 2031

Simons Observatory-SAT1 (Fall 2023)



SO:UK + SO:JP

Simons Observatory-SAT2 (Fall 2023)

Simons Observatory-SAT3 (Spring 2024)

CMB-S4
≥ 2030

Jan 2023

Jan 2024

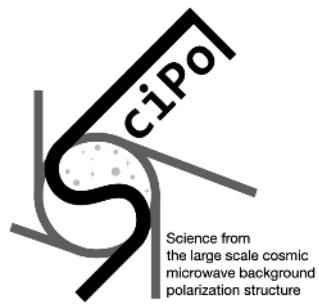
Jan 2025

4

Jan 2026

Jan 2027

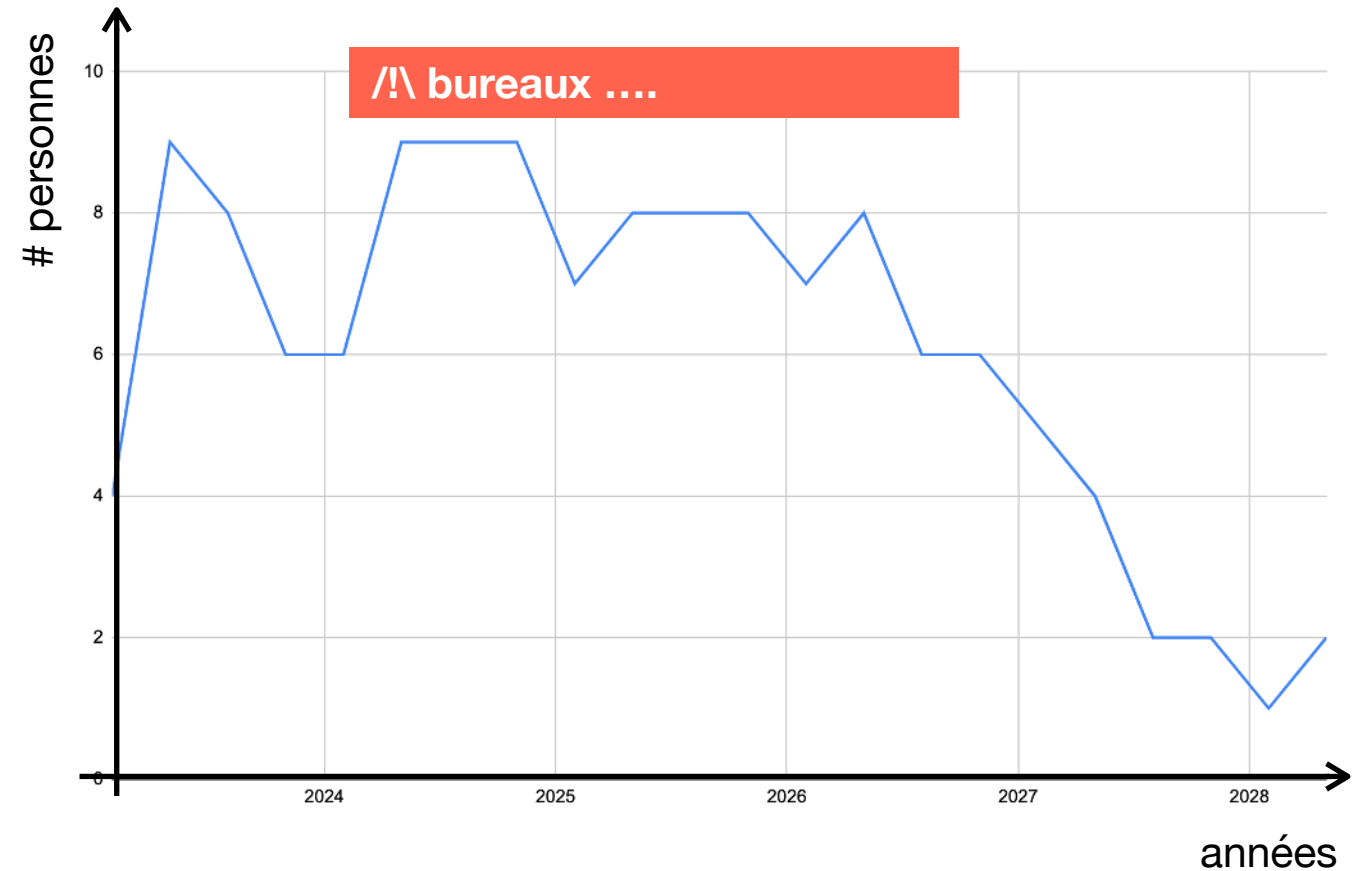
Jan 2028



Équipe SciPol

Actuellement

- Josquin Errard (coordinateur)
- Simon Biquard (PhD 2022-2025)
- Ema Tsang (M2 -> PhD 2023-2026)
- Pierre Chanial (IR, 2023->2025+2)
- Benjamin Beringue (postdoc, 2023->2026)



+ collaborateurs externes

- **APC:** Magdy Morshed (PhD, 2021-2024), Arianna Rizzieri (PhD, 2021-2024)
+ Maude Le Jeune, Guillaume Patanchon
- **Berkeley:** Hamza El Bouhargani, Julian Borrill, Reijo Keskitalo, Ted Kisner
- **IPMU:** Baptiste Jost, Clément Leloup, Tomo Matsumura
- **SISSA:** Nicoletta Krachmalnicoff, Carlo Baccigalupi, Léo Vacher