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CMB Applications of FURAX

mercredi 15 octobre 2025 11:20 (20 minutes)

I will present three applications of FURAX, a JAX-powered, open-source framework designed for modular and efficient CMB data analysis. First, I will discuss mapmaking—the conversion of time-ordered data into sky maps—with an emphasis on strategies to mitigate systematic effects. Second, I will show how FURAX enables robust component separation in the map domain, extracting CMB signals from sky maps while accounting for the spatial variability of foreground contaminants. Finally, I will demonstrate how to use FURAX to perform time-domain component separation by reconstructing atmospheric emission maps from CMB observations. The talk will be accompanied by tutorial notebooks to support hands-on exploration.

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Classification de Session: CMB results and analysis