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## IN2P3 activities and developments for CMB-S4

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CMB-S4 is the next generation CMB instrument, led by the US. It will observe the sky from Chile and the South Pole with 500000 detectors. The large scale of the project gives rise to numerous challenges in terms of instrument design, hardware production, data management and data analysis. Several IN2P3 laboratories are involved in this project, both from the data management/analysis and instrumental point of view. In this presentation I will give an overview of these activities, which are being consolidated into a cooperative research and development agreement. In particular, I will describe the contributions to the warm analog front-end electronics of the instrument and the proposed contributions in data management, which include data movement, metadata infrastructure, data simulation and data reduction.

**Auteur principal:** GONZALEZ, Manuel (Astroparticule et Cosmologie)

**Orateur:** GONZALEZ, Manuel (Astroparticule et Cosmologie)

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