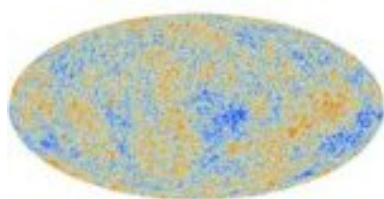


<https://www.observatoiredeparis.psl.eu/planck-ever-closer-to-the-big-bang.html>



Planck: Ever closer to the Big Bang



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Observatoire de Paris - PSL Centre de recherche en astronomie et
astrophysique

An international team of 250 scientists, including scientists from the Observatoire de Paris, associated with ESA's Planck satellite mission has published the most detailed map yet of the microwave background, or fossil, radiation of the Universe. The theory favoured by astrophysicists, the standard model of the big bang, together with the existence of dark matter and radiation, are in remarkable agreement with the statistical properties of this radiation. However, the instrumental precision is such that certain subtle tiny deviations from the theory could be the tracers of new phenomena at large scales.

[1] The Laboratoire d'Etudes du Rayonnement et de la Matière en Astrophysique LERMA is a scientific department of the Observatoire de Paris. It is associated with the CNRS, with the Cergy-Pontoise University, the Pierre and Marie Curie University, and with the École Normale Supérieure

[2] The Institut d'Astrophysique Spatiale is associated with the CNRS and with the Paris-Sud University

[3] The Astroparticule et Cosmologie laboratory is a member of the Paris-rive gauche campus of the Paris Diderot University. It is associated with the CNRS, with the CEA and with the Observatoire de Paris.

[4] The Institut d'Astrophysique de Paris is associated with the CNRS and with the Pierre et Marie Curie University