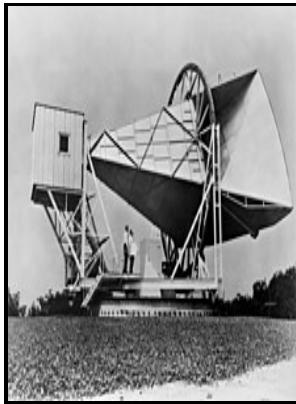


Cosmic microwave background, 25 years later

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Cosmic microwave background

These are also at the focus of an active research effort with the hope of a first measurement within the forthcoming decades, as they contain a wealth of information about the primordial universe and the formation of structures at late time. However, on 19 June 2014, considerably lowered confidence in confirming the findings was reported and on 19 September 2014 new results of the reported that the results of BICEP2 can be fully attributed to. The cosmic microwave background blankets the universe and is responsible for a sizeable amount of static on your television set-- well, before the days of cable.

Cosmic Microwave Background

These include DASI, WMAP, BOOMERanG, , , , and the. When the CMB photons became free to travel unimpeded, ordinary matter in the universe was mostly in the form of neutral hydrogen and helium atoms.

Cosmic microwave background

We want to thank the members of the Scientific Organizing Committee for their assistance, suggestions and encouragement, the invited speakers for their excellent presentations, and the chairmen for their help in handling the various Sessions. The locations of the peaks give important information about the nature of the primordial density perturbations.

The Cosmic Microwave Background: 25 Years Later: Proceedings of a Meeting on 'The Cosmic Microwave Background: 25 Years Later', Held in L'Aquila, Italy, June 19

Moreover, the fluctuations are on angular scales that are larger than the apparent at recombination. This is the source of the alternative term relic radiation.

Quanta Magazine

But other ideas might emerge as well.

The Impact of the CMB Discovery on Theoretical Cosmology

It is an important source of data on the early universe because it is the oldest electromagnetic radiation in the universe, dating to the. From studying the temperature variations--a millionth of a degree hotter here, a millionth of a degree cooler there--the WMAP team could deduce fundamental properties of the universe, including its age and shape, the ratio of matter to energy, the era when stars first ignited, and rate at which the universe continues to expand.

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