

Effective Solutions of Cosmic Microwave Background Problem

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Cosmic Microwave Background (CMB) can reveal information about the early stages of the universe. The aim of the research paper is to provide efficient CMB source separation algorithms with high accuracy.

This research paper explores two algorithms for the CMB source separation problem, the conjugate gradient algorithm and the Sylvester equation algorithm. Experiments based on Planck data have been carried out to test the performance of these algorithms. The conjugate gradient has good performance and high accuracy, the Sylvester equation algorithm has the best performance but lower accuracy.