Cosmic Magnetism in Voids and Filaments



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Cosmic Recombination and Primordial Magnetic Fields

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The presence of primordial magnetic fields (PMFs) at recombination

may be tested by current and future high precision CMB observations. The most sensitive impact on CMB anisotropies by PMFs seems to be baryon clumping on small scales. PMFs of weak strength could alleviate the Hubble tension, providing a tentative

indirect detection of PMFs at recombination. I present first results of the most-up-to-date numerical simulations of the influence of PMFs on recombination, taking into account so far neglected effects.

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