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Constraints on Primordial Magnetic Fields from Planck 2015

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Primordial magnetic fields (PMF) may represent the “progenitors” of the fields we observe in large scale structures and their study could open a new observational window on the early universe. The Cosmic Microwave Background, thanks to its different probes, represents one of the best laboratory to investigate and constrain the nature of PMF. I will present the Planck 2015 constraints on the amplitude and spectral index of a stochastic background of PMF derived using different methods.

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