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Assessing the consistency of Cosmic Microwave Background observations to probe new physics

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In this talk I will discuss about the global agreement between the most recent observations of the Cosmic Microwave Background temperature and polarization anisotropies. I will point out some emergent anomalies that cannot be fully understood within the standard Λ CDM model of cosmology, hinting at significant unaccounted-for systematics in the CMB data or at basic missed ingredients in the theory. Either way, I will show that these anomalies are responsible for a global “CMB tension” between independent experiments that persists also in extended background cosmologies and analyze the implications for new physics beyond Λ CDM.

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