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Towards the measurement of spectral distortions from space: from BISOU to FOSSIL

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Both standard and non-standard physics processes inevitably lead to distortions of the CMB black-body shape. They provide a unique opportunity to reveal a novel tracer of the early Universe, particle physics and structure formation. The presentation will cover some of the ongoing efforts in BISOU (Cnes Balloon project) and FOSSIL (ESA M8 proposal) to design and fly a future satellite aimed at achieving an unprecedented leap forward in sensitivity, allowing us to detect these spectral distortions. Latest updates on the status of the ESA M8 proposal for spectral distortions FOSSIL will be provided.

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Classification de Session: Future missions