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## **Invited talk by Stephan Ilic (IJC Lab Paris) on "The history of reionisation : peering through the dark ages with the CMB"**

*Tuesday, 24 May 2022 11:50 (40 minutes)*

Observations of the cosmic microwave background provide us with a unique window on the early Universe, and great new insights are expected from the next generation of dedicated ground and space telescopes. While probing the elusive inflationary epoch may be the most sought-after objective of those missions, they will also shed some light on another poorly-known era of the early Universe: the reionisation era. In this talk, after recalling the essentials of the reionisation epoch, I will review the methodologies used and state-of-the-art constraints derived from current data. I will then focus on the future of reionisation studies, detailing forecasts and new probes remaining to be exploited.

**Session Classification:** CMB, Cross-Correlation and Galactic Science