

# Probing Dark Matter Throughout Cosmic History

*Thursday 26 March 2020 08:00 (15 minutes)*

I will review the status of cosmological searches for dark matter interactions, summarizing the best current limits on scattering of light particle candidates with protons derived from the cosmic-microwave-background anisotropy measurements. I will then present stringent new bounds on the same physics, inferred recently from the observed population of the Milky Way satellite galaxies. I will highlight complementarities between different observations and laboratory searches for dark matter, and discuss the prospects for unveiling the physics of dark matter in the coming decade.

**Author:** Prof. GLUSCEVIC, Vera (USC)

**Presenter:** Prof. GLUSCEVIC, Vera (USC)

**Session Classification:** Session 5

**Track Classification:** Dark matter and structure in the Universe