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Production of very light dark photon dark matter

Tuesday, March 28, 2023 12:05 PM (20 minutes)

In this talk, I will show several production mechanisms of light dark photon dark matter in the early universe. It contains (i) resonant dark production from axion oscillation, (ii) dark photon emission from the collapse of cosmic string loops, (iii) misalignment production of coherently oscillating dark photons. Observational implications will also be discussed.

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Session Classification: Morning session-1