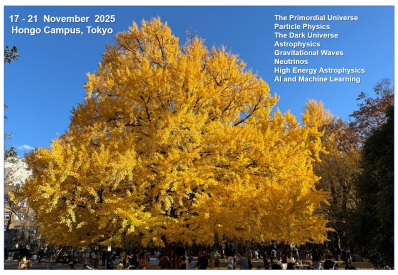

ID de Contribution: **247** Type: **Non spécifié**

JWST Constraints on Early Galaxy and Black Hole Formation

lundi 17 novembre 2025 17:00 (25 minutes)

The field of galaxy formation and evolution is undergoing a transformative renaissance, driven by groundbreaking observational advances. The James Webb Space Telescope (JWST) is revolutionizing our view of the early universe, offering unprecedented insights into the timing and mechanisms behind the formation of the first galaxies and black holes. In this talk, I will present ongoing efforts to build a comprehensive picture of early galaxy and black hole formation, and to understand how the earliest galaxies reshaped the baryonic content of the universe during the epoch of Cosmic Reionization. At the same time, JWST has uncovered a surprising population of black holes at high redshifts, whose masses and abundance challenge existing models of black hole formation and growth.

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