



ID de Contribution: 115

Type: Non spécifié

# How can we learn about the physics of galaxy formation from LIM?

*mercredi 4 juin 2025 13:45 (40 minutes)*

The large scale clustering of all luminous tracers in the Universe is governed by a combination of cosmological structure formation and baryonic processes, which are intertwined in a non-linear and poorly understood manner. Although processes such as star formation and black hole feedback occur on scales of less than a parsec, it is known that they can impact potential LIM signals even on relatively large scales of 10's of Mpc, making modeling them extremely challenging. I will discuss recent progress in developing physics-based models for forecasting and interpreting multi-tracer LIM results using multi-scale simulations, semi-analytic modeling, and machine learning.

**Author:** SOMERVILLE, Rachel

**Orateur:** SOMERVILLE, Rachel

**Classification de Session:** Keynote 5: How can we learn about the physics of galaxy formation from LIM?