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## Introducing the Cosmology Group at Universidad del Valle: Current Research and Future Perspectives

*Friday 6 December 2024 10:00 (30 minutes)*

In this talk, we will introduce the Cosmology Group at Universidad del Valle (UniValle), a hub for innovative research in theoretical cosmology. We will provide an overview of our current projects, which span topics such as modified gravity, dark energy, and the large-scale structure of the cosmos.

We are also actively involved in the development and application of advanced computational tools, including machine learning techniques, to tackle complex cosmological problems. We will highlight key achievements, ongoing collaborations, and the unique research environment we foster at UniValle.

Additionally, we will discuss our vision for the future, including upcoming projects and potential areas of expansion. By sharing our work and aspirations, we hope to engage with the broader cosmology community in Colombia, fostering collaborations that will not only advance our understanding of the universe but also position Colombian cosmology as a significant contributor on the global stage.

**Author:** ORJUELA-QUINTANA, JOHN BAYRON (UNIVERSIDAD DEL VALLE)

**Presenter:** ORJUELA-QUINTANA, JOHN BAYRON (UNIVERSIDAD DEL VALLE)