

**<a href="http://www.lhcphenonet.eu/outreach">The Large Hadron Collider: Living with the Uncertainty Principle (Public talk)</a>**

*martes, 1 de febrero de 2011 19:30 (60)*

The largest scientific machine ever constructed, the Large Hadron Collider outside of Geneva, was switched on just a few months ago. The data from this experiment could have a dramatic effect on our beliefs about the origin of matter, the properties of space and time, and the mysterious contents of the Universe. In this talk, I will describe the Large Hadron Collider and explain why we do such experiments. I will also talk about the underlying rules of Nature, governed by Quantum Field Theory, and describe some of the fantastical things we hope to see: dark matter, supersymmetry, or extra dimensions. Finally, I will describe the historical context of this moment in science and the uncertainty of the future direction of fundamental physics.

## **Summary**

**Presenter(s) :** KAPLAN, David

**Clasificación de la sesión :** Public Talk