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SEMINARIO DE GRAVITACIÓN Y COSMOLOGÍA

En colaboración con la Embajada de Francia en España

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The Shape of Space, from Black Holes to the Universe

Abstract: The description of the shape of our physical space at various scales (length scales or energy scales) involves a rich variety of geometrical models, each depending on the underlying physical theory. Imaging distorted space and time by gravitational and quantum fields is a big challenge of modern fundamental physics. I shall discuss such space representations for describing the shape of space around black holes, next the global shape of our universe in the framework of cosmic topology, and eventually give hints on the shape of spacetime at the quantum scale. Striking movies and color visualizations will be displayed.

Prof. Jean-Pierre Luminet
Director de Investigación en el
CNRS/Observatoire de Paris

Lugar: *Sala de Conferencias de Serrano 121
Centro de Física "Miguel A. Catalán"*

for
others)

PILLARS OF HEAVEN

PILLARS OF EARTH

PRIMEVAL
OCEAN