

# Lemaître Conference 2024

## Black Holes, Gravitational Waves and Space-Time Singularities

Second international conference to celebrate the legacy of G. Lemaître



# Vatican Observatory

Castel Gandolfo, Italy

# 17 - 21 June 2024



### SCIENTIFIC RATIONALE

Building upon the success of the inaugural Lemaître workshop we delve deeper into the legacy of Mgr. Georges Lemaître's profound insights. This iteration focuses on addressing paramount themes: Cosmology and the perplexing Hubble tension, the enigmatic nature of spacetime singularities encompassing the Big Bang and Black Holes, the Gravitational Waves they produce, the tantalizing pursuit of Quantum Gravity and its connections with the Entanglement and foundations of Quantum Theory.

The main goal of this workshop is to encourage interaction among the participants, between theory and observation, and to provide a stimulating and thought-provoking environment for new ideas.

### SPEAKERS INCLUDE

Patrick Brady, Roberto Casadio, Michele Cicoli, Thibault Damour, Lajos Diosi, Gia Dvali, Wendy Freedman, Lavinia Heisenberg, Thomas Hertog, Ted Jacobson, Alexander Kamenshchik, Claus Kiefer, Dominique Lambert, Andrei Linde, Renate Loll, Hiroshi Ooguri, Roger Penrose, Eric Poisson, Adam Riess, Mairi Sakellariadou, Misao Sasaki, Joseph Silk, George Smoot, Daniel Sudarsky, Gerard 't Hooft\*, Michael Turner, William Unruh, Cumrun Vafa\*, Gabriele Veneziano, Licia Verde, Edward Witten, Anton Zeilinger

\* to be confirmed

CONTACT: Gabriele GIONTI, S.J.  
Specola Vaticana  
V-00120 Vatican City State - Rome, Italy  
e-mail: [lemaitre.conference@gmail.com](mailto:lemaitre.conference@gmail.com)



Check the website for more info and to attend the conference online:

<https://bit.ly/41bHXLj>

### SCIENTIFIC ORGANIZING COMMITTEE

Massimo Bianchi, Sergio Cacciatori, Guy Consolmagno, S.J., Viviana Fafone, Matteo Galaverni, Gabriele Gionti, S.J., Renata Kallosh, Renate Loll, Maria Elena Monzani, Piergiorgio Picozza, Fabio Scardigli, Daniel Sudarsky, Michael Turner



*Georges Lemaître*