



**IRAFS-22. INTERNATIONAL SYMPOSIUM ON:
«"SCIENCE & THEOLOGY".
A STUDY PROGRAM FOR THE FUTURE THEOLOGIANS»
PONTIFICAL LATERAN UNIVERSITY
OCTOBER 20-21, 2022¹
ROOM "PIO XI"
WEB CONNECTION:**

<https://pul.webex.com/pul/j.php?MTID=md8ea8ce0c9c487475d024ef8d7a6878c>

A. FIRST DAY: "THE SCIENCE & THEOLOGY" STUDY PROGRAM

1. First Session (October 20, Morning)

- 10:15-10:30 GIANFRANCO BASTI, Director of IRAFS, *Introduzione al Simposio (Introductory Address to the Symposium)*
- 10:30-11:00 FRANCESCO PANIZZOLI, Chaplain of the Research Institutes at MIUR, *Presentazione del Programma di Studi "Scienza & Teologia" e le sue Prospettive (Presentation of the "Science & Theology" Study Program and its Perspectives)*
- 11:00-11:15 DISCUSSION
- 11:15-11:30 COFFEE BREAK
- 11:30-12:15 GIANFRANCO BASTI, Director of IRAFS, *Tommaso, Dante e Florenskij: l'ipersfera n-dimensionale a al confine fra Scienza e Teologia (Aquinas, Dante, Florenskij: the n-dimensional hypersphere at the boundary between Science and Theology).*
- 12:15-12:30 DISCUSSION
- 12:30-13:30 LUNCH TIME

¹ Speeches with the title translated into Italian will be given in Italian language. The speeches of the foreign speakers are previewed in videoconference modality. It is possible to participate at the Symposium both in the onsite modality, and in the distance modality using the Webex platform of the Lateran University.

2. Second Session (October 20, Afternoon)

- 14:00-14:45 LUBOMIR ŽAK, Faculty of Theology at the Palacky University of Olomouch (Czech Republic), *P. A. Florenskij: un modello per l'integrazione fruttuosa fra Scienza e Teologia* (*P. A. Florenskij: a model for the fruitful integration between science and theology*)
- 14:45-15:00 DISCUSSION
- 15:30-16:00 BISHOP CLAUDIO GIULIODORI, President of the Italian Bishop Commission for the Education, School, and University. *Plenary speech on: "Sfide e prospettive per una teologia in dialogo con le scienze"* (*Challenges and perspectives for a theology in dialogue with sciences*).
- 16:00-16:15 DISCUSSION
- 16:15-16:30 COFFEE BREAK
- 16:30-17:15 VLADISLAV SHAPOSHNIKOV, Fac. of Philosophy at Lomonosov Moscow State University (Russia), *P. A. Florenskij's project of mathematical apologetics*
- 17:15-17:30 DISCUSSION
- 17:30-18:00 GIUSEPPE LORIZIO, Faculty of Theology at PUL, *Il messaggio della Rivelazione sull'universo. Teologia e Cosmologia* (*The Revelation message on the universe. Theology and Cosmology*)
- 18:00-18:15 DISCUSSION
- 18:15 END OF THE SESSION

SECOND DAY: “THE QUANTUM GRAVITATION CHALLENGE IN MODERN COSMOLOGY”

3. First Session (October 21, Morning)

- 09:30-09:45 VINCENZO BUONOMO, President of PUL, *Saluto ai Partecipanti (Greeting Address to Participants)*
- 09:45-10:15 SARAH JONES NELSON, IRAFS Consultant, *Remembering the Future: How to Predict a Scientific Revolution.*
- 10:15-11:15 GABRIELE GIONTI, MATTEO GALAVERNI, Specola Vaticana, *(Breve introduzione alla gravitazione quantistica: osservazioni e teorie (A short introduction to Quantum Gravity: observations and theories).*
- 11:15-11:30 DISCUSSION
- 11:30-11:45 COFFEE BREAK
- 11:45-12:30 GERARD ‘T HOOFT, Dept. Of Physics, Utrecht University, 1999 Nobel Laureate in Physics, *Plenary Speech on: “Quantum Information Lost and Found, and why the Interpretation of Quantum Mechanics is Important”.*
- 12:30-12:45 DISCUSSION
- 12:45-14:00 LUNCH BREAK

4. Second Session (October 21, Afternoon)

- 14:30-15:15 ROBERTO LONGO, Dept. Of Mathematics, II University of Rome “Tor Vergata”, *Black hole entropy and signal communication: a mathematical perspective*
- 15:15-15:30 DISCUSSION
- 15:30-16:00 COFFEE BREAK
- 16:00-17:00 PETER GALISON, SHEPERD DOELEMEN, Event Horizon Telescope, Harvard University, *Imaging Black Holes: A New Philosophy and Analysis of Event Horizon Physics*
- 17:00-17:15 DISCUSSION
- 17:15-18:00 ROBERTO BATTISTON, Dept. Of Physics, University of Trento, *L’alfabeto della Natura (Nature’s Alphabet)*
- 18:00-18:30 FINAL DISCUSSION AND END OF THE SYMPOSIUM