

## Conference Organizing Committee

GIANFRANCO RAVASI  
*President of the Pontifical Council for Culture*

MARCELO SANCHEZ-SORONDO  
*Chancellor of PAS*

CARLO RUBBIA  
*CERN, Switzerland, Nobel Laureate, Member of PAS*

NICOLA CABIBBO  
*University of Rome "La Sapienza", President of PAS*

MARCELLO PERA  
*University of Pisa, Italy and Pontifical Lateran University,  
Vatican City*

GIANFRANCO BASTI  
*Pontifical Lateran University,  
Vatican City*

ANTONIO LUIGI PERRONE  
*Secretary of IRAFS, Pontifical Lateran University,  
Vatican City*



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## Lateran '09 International Conference



INTERNATIONAL YEAR  
OF ASTRONOMY **2009**

## INTERNATIONAL CONFERENCE 1609–2009

From Galilei's Telescope to Evolutionary Cosmology  
Science, Philosophy and Theology in Dialogue

Pontifical Lateran University (PUL)  
Vatican City  
November 29th – December 2st, 2009





## INTERNATIONAL CONFERENCE 1609–2009

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### GENERAL PROGRAM

#### Sunday November 29th Afternoon

(reserved to Invited Guests)

18:00 Galilei's Historical Exhibit Inauguration

20:00 Reception at the Hall of the Pontifical Lateran  
University (PUL)

#### Monday November 30th Morning: Plenary Session

(with High School Students)

##### AULA MAGNA

9:30 Welcome – Introduction – RINO FISICHELLA  
(Rector PUL) – NICOLA CABIBBO (President PAS)  
10:00 (brief intervention) GIANFRANCO BASTI

Chairperson: GIANFRANCO BASTI

10:15 OWEN J. GINGERICH, University of Harvard, USA  
(History of Astronomy and Astrophysics)  
11:00 Coffee Break  
11:30 GEORGE F. SMOOT, University of California at  
Berkeley, USA, Nobel Laureate (Observational  
Cosmology)  
12:15 GIANFRANCO RAVASI, President of the Pontifical  
Council for Culture (Biblical Cosmology)  
13:00 General Discussion  
13:15 End of the Session



#### Monday November 30th Afternoon. Physics Session: Cosmology, Relativity, Quantum Mechanics, and GUT's

##### AULA PIO XI

Chairperson: MARCELLO PERA

14:30 CARLO RUBBIA, CERN, Switzerland, Nobel Laureate,  
Member of PAS (Cosmology, GUT's and Quantum  
Mechanics: LHC Physics)  
15:15 ROGER PENROSE, Oxford University, UK (Cosmology,  
GUT's, and Relativity Theory)  
16:00 NICOLA CABIBBO, University of Rome "La Sapienza",  
President of PAS (The state of art of GUT's in Physical  
Cosmology)  
16:45 Coffee Break

Chairperson: NICOLA CABIBBO

17:15 LEE SMOLIN, University of Ontario at Waterloo, Canada  
(An odd hypothesis on GUT's: Physics without strings?)  
18:00 MARCO BERSANELLI, University of Milan, Italy  
(Expected Results of PLANCK Mission)  
18:45 General Discussion with all the Speakers  
19:15 End of the Session

#### Tuesday December 1st Morning

(Reserved Audience of Pope Benedict XVI for the Conference  
Speakers)

#### Tuesday December 1st Afternoon. Philosophy Session: From Physical to Metaphysical Cosmology

##### AULA PIO XI

Chairperson: MARCELO SANCHEZ-SORONDO

14:30 MARCELLO PERA, University of Pisa, Italy and  
Pontifical Lateran University, Vatican City, Senator of  
the Italian Republic (Epistemological and Cultural  
Relevance of the Actual Debate)  
15:15 ENRICO BERTI, University of Padua, Member of PAS  
(From Physical to Metaphysical Cosmology)



16:00 WILLIAM CARROLL, University of Oxford, UK (Time and  
Creation: Thomas Aquinas and Contemporary  
Cosmology)  
16:45 Coffee Break

17:15 Chairperson: ENRICO BERTI  
XX:XX GIANFRANCO BASTI, Pontifical Lateran University,  
Vatican City (From Physical to Metaphysical  
Cosmology: The Formal Ontology Path, i.e., how to  
formalize the statement: "Divine causation and  
physical causation radically differ")  
18:00 MARCELO SANCHEZ-SORONDO, Chancellor of PAS  
(From Physical to Metaphysical Cosmology: The  
Core-Notion of "Participation of Being")  
18:45 General Discussion  
19:00 End of the Session

#### Wednesday December 2nd Morning. Theology Session: From Physics and Metaphysics to Theological Cosmology

##### AULA PIO XI

Chairperson: WILLIAM CARROLL

09:00 GIUSEPPE TANZELLA NITTI, University of the Holy  
Cross, Rome (Physical Cosmology and Christian  
Theology of Creation)  
09:45 CHARLES MOREROD, St. Thomas Aquinas University,  
Rome (From Physical Cosmology to Theological  
Cosmology: The Analogy Path)  
10:30 Coffee Break

Chairperson: RINO FISICHELLA

11:00 GEORGES COTTIER, Former Theologian of the Pontifical  
House (Causa prima e causae secundae)  
11:45 RINO FISICHELLA, President of the Pontifical Academy  
for Life, and Rector of the Pontifical Lateran University  
(Science, Philosophy and Theology in Dialogue on  
Cosmology: Is a Synthesis Possible?)  
12:30 Final Discussion  
13:00 End of the Conference

