

4th AFI Symposium > Our Evolving Universe <



Friday 15 October 2010

University of Innsbruck

Claudiasaal

Herzog-Friedrich-Straße 3 – 6020 Innsbruck, Austria
(in the old town)

The interface of gravity and the quantum world inspires challenging physics questions and exciting cross-disciplinary discussion. Key issues include black hole physics and the energy budget of the Universe plus their manifestation in the cosmic microwave background and gravitational wave astronomy, the possible time dependence of fundamental constants and the science of complexity and self-organisation. This meeting, composed of 6 colloquium talks and discussion sessions, will explore these fundamental issues.

Programme:



Claudia de Rham
University of Geneva

The Accelerating Universe and Modified Gravity

Laura Ferrarese
Herzberg Institute of Astrophysics,
NRC Canada

*The inner workings of galaxies: cores, nuclei
and supermassive black holes*



Harald Fritzsch
LMU, Munich

*Fundamental Constants in Physics and their
Time Dependence*

Julien Lesgourgues
CERN, EPFL Lausanne and
LAPTH Annecy

*Characterizing dark matter with cosmological
observations*



Sandu Popescu
University of Bristol

Complexity, Biology and the Quantum

Stefano Vitale
University of Trento

Gravitational Wave Astronomy with LISA



All talks will be 40 minutes plus 10 minutes for discussion.

A registration fee of 30 euros per participant will be requested to cover coffee breaks plus evening banquet at Schloss Ambras on the Friday evening.

For practical catering reasons, the total number of participants is limited.

For information and request for invitation please contact:

► Steven.Bass@uibk.ac.at before October 6, 2010.

Applications from students are welcome (please advise which group and whether Ph D student, diploma, or which semester for undergraduates).

Draft programme:

Friday, October 15

09.30	Welcome
09.40	de Rham
10.30-11.00	Coffee
11.00	Lesgourgues
11.50	Fritzsich
12.40 - 15.00	Lunch
15.00	Ferrarese
15.50	Vitale
16.40 - 17.10	Coffee
17.10	Popescu
19.00	Evening banquet

Local organisation

(University of Innsbruck):

Steven Bass

Barbara Tasser

Institute for Theoretical Physics

Italien-Zentrum

This meeting is organised in collaboration with the University of Innsbruck and the Italien-Zentrum and Frankreich Schwerpunkt of the University of Innsbruck with support from the University and the Austrian Science Fund, FWF, through grant P20436.

Travel information:

The meeting site is in the Innsbruck old town, 10 minutes from the main train station and 20 minutes taxi from the airport. Train connections are available at www.oebb.at . Train via Zuerich is suggested for participants travelling from Geneva.

For people coming by air, there are flights through Frankfurt and Vienna. Please check the connections and fares at both:

www.lufthansa.com

and

www.aua.com (Austrian Airlines)

A map of Innsbruck is available at: www2.innsbruck.at/WebCity/FrontController

The meeting room of the symposium is in: <http://www.uibk.ac.at/italienzentrum/kontakt.html>

For information about hotel possibilities: www.tiscover.at

