



6th AFI Symposium
Christmas Colloquium
> Gravitational Puzzles <

7 December 2012

University of Innsbruck

Claudiasaal

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

New insights from gravitational and quantum physics plus their interface inspire challenging questions and exciting cross-disciplinary discussion. This meeting, composed of colloquium talks and discussion sessions, will explore these fundamental issues.

Programme:



Luca Amendola
University of Heidelberg

Dark energy

Markus Aspelmeyer
University of Vienna

Exploring the interface between quantum physics and gravity in table-top quantum optics experiments



Laura Baudis
University of Zürich

Direct dark matter searches in the Milky Way: an overview

Gemma De las Cuevas
MPQ Munich

Reducing space-time to binary information



Johanna Erdmenger
MPI for Physics Munich

Gauge/gravity duality: New methods from String Theory for the real world

**Evening lecture
Karin Koinig**
Innsbruck

Long term climate change in the Alps over the last 10,000 years



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, light lunch and 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 November 28, 2012.

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

Draft programme:

Friday, December 7

09.30	Welcome - Rector: Tilmann Märk
09.40	Amendola
10.30-11.00	Coffee
11.00	Baudis
11.50	De las Cuevas
12.40 - 15.00	Lunch
15.00	Aspelmeyer
15.50	Erdmenger
16.40 - 17.10	Coffee
17.10	Koinig
18.00	Bus to Schloß Ambras
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 of the University of Innsbruck with support from the University and the Austrian Science Fund, FWF, through grant P23753.

Travel information:

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

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.aa.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.innsbruck.info/en/experience/sightseeing/all-sights-attractions/detail/infrastruktur/-25601ec208.html>

For information about hotel possibilities and attractive excursions on Saturday: www.tiscover.at

