

# Summer School in Relativistic Astrophysics

## University of Nice Sophia Antipolis

Parc Valrose Batiment H. Fizeau

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### Monday September 12th

**09:00 - Einasto:** Modeling of galaxies

10:00 Coffee Break

**10:15 - Einasto:** The structure of the cosmic web

**11:15 - Belinski:** On the local quantum tunnelling through the Black  
Hole horizon

12:15 Lunch

**15:00 - Einasto** The structure of the cosmic web

**16:00 - Belinski:** Equivalence principle and Quantum Field Theory  
in accelerated system

17:00 Coffee Break

### Tuesday September 13th

**09:00 - Nicolai:** Introduction to canonical quantum gravity

10:00 Coffee Break

**10:15 - Kleinert:** Dark Matter

**11:15 - Kleinert:** Dark Matter

12:15 Lunch

**15:00 - Nicolai** : Introduction to canonical quantum gravity

16:00 Coffee Break

## Wednesday September 14th

**09:00 - Nicolai** : Introduction to canonical quantum gravity

10:00 Coffee Break

**10:15 - Melchiorri**: Cosmic Microwave Anisotropies and Cosmological  
Parameters

**11:15 - Grüber**: First year PhD. Report

12:15 Lunch

**15:00- Nicolai** : Introduction to canonical quantum gravity

**16:00 - Melchiorri**: Cosmic Microwave Anisotropies and Cosmological  
Parameters

17:00 Coffee Break

## Thursday September 15th

**09:00 - Nicolai**: Introduction to canonical quantum gravity

10:00 Coffee Break

**10:15 - Belinski**: General theory of quantum tunnelling in a  
Black Hole space-time

**11:15 - Fleig**: First year PhD. Report

12:15 Lunch

**15:00 - Deruelle**: Introducing Black Holes: a fifty year quest

**16:00 - Deruelle**: Schwarzschild and Reiser-Nordström space-times

17:00 Coffee Break

**20:30 Social Dinner:**

Restaurant «La Voglia» 2, rue Saint Françoise de Paule

**Friday September 16th**

**09:00 - Nicolai:** Introduction to canonical quantum gravity

10:00 Coffee Break

**10:15 - Belinski:** Exact second quantization approach

**11:15 - Dutta:** First year PhD. Report

12:15 Lunch

**15:00- Deruelle:** The Kerr Black Hole

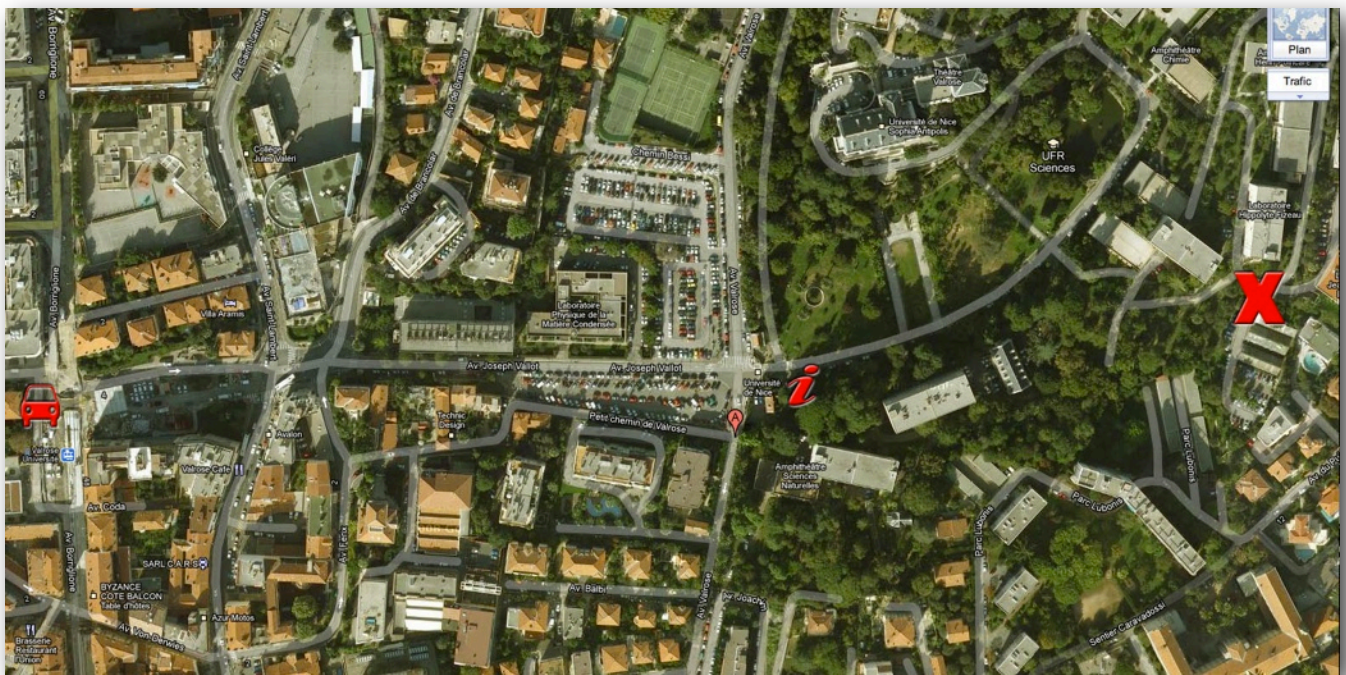
**16:00 - Deruelle:** Black hole ergoregions

17:00 Coffee Break

# Information for participants

Thank you to attend the ERASMUS Mundus Summer School on Relativistic Astrophysics, which will take place from 12–16 September 2011 at the seminar room, H.Fizeau Building, University of Nice Sophia Antipolis 28 Avenue Valrose Nice.

Please note that the University is of walking distance (about five minutes) from the tram stop «Valrose University».



**Map of the University.**

Symbols: «red car»: tram stop – «red cross»: Fizeau building.

**Joint Dinner on Thursday 15 September 2011:**

Restaurant «La Voglia» 2, rue Saint Françoise de Paule– NICE