

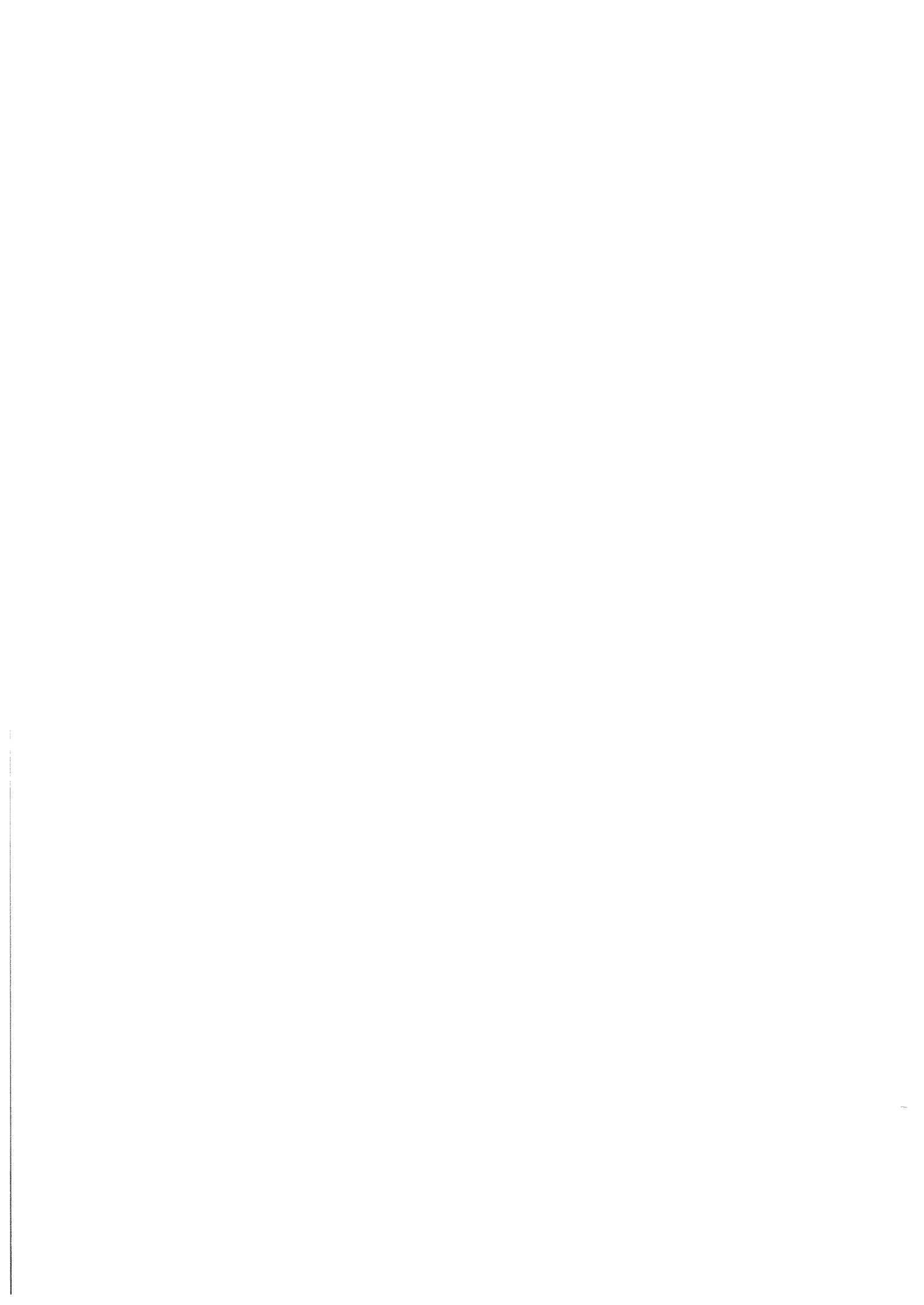
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QUAINT

Second meeting of the QUAINT coordination action on Optimal Control of Quantum Systems

University of Dijon,
8-10th April 2013





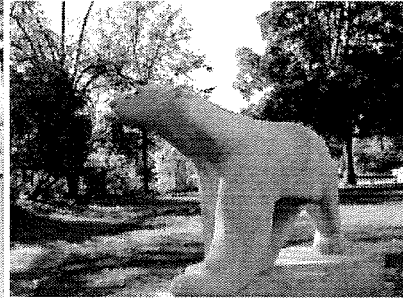
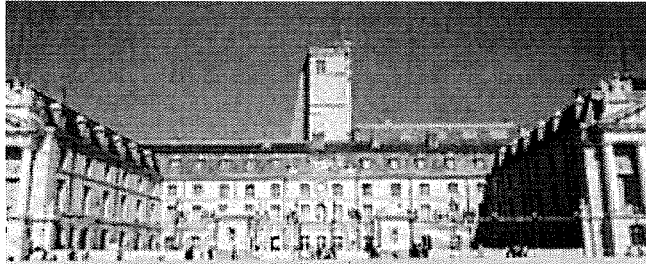
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Conference location

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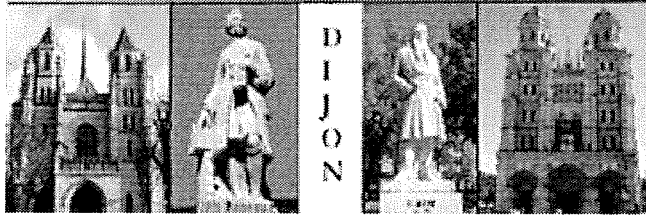
City of Dijon

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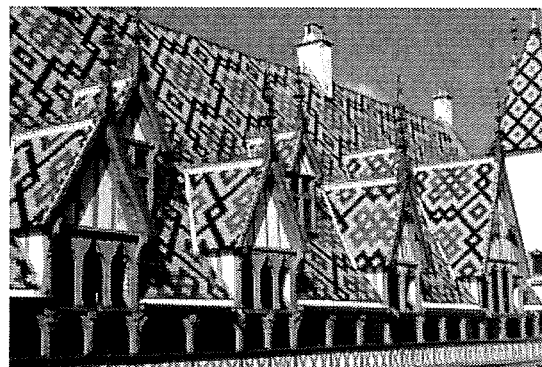
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The conference will take place in Dijon. Dijon is a city in eastern France, and is the capital of the département Côte-d'Or and of the region Bourgogne.

[Organizing Comitee](#)



Dijon has a large number of churches, including Notre Dame de Dijon, St. Philibert, St. Michel, Dijon Cathedral, the crypt of which, dedicated to Saint Benignus, is a 1,000 years old. The city has retained varied architectural styles from many of the main periods of the past millennium, including Capetian, Gothic and Renaissance. Many still-inhabited town houses in the city's central district date from the 18th century and earlier. Dijon architecture is distinguished by, among other things, toits bourguignons (Burgundian polychrome roofs) made of tiles glazed in terracotta, green, yellow and black and arranged in geometric patterns.



The church of Notre Dame is famous for both its art and architecture. Popular legend has it that one of its stone relief

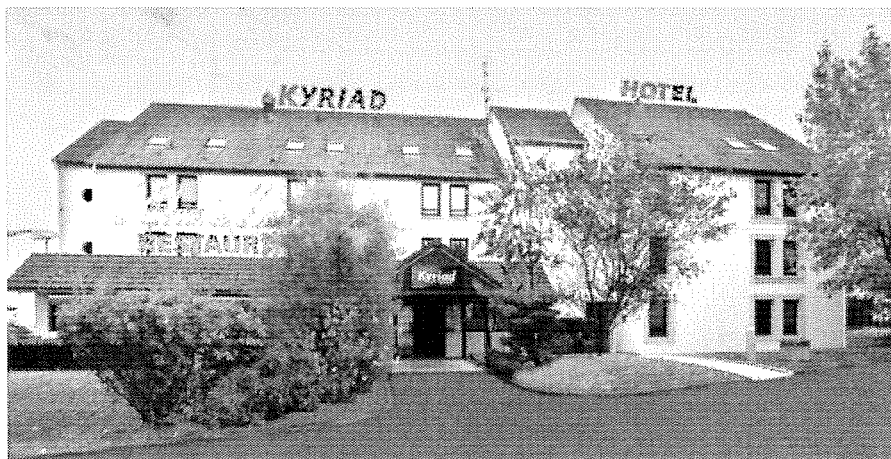


sculptures, an owl (la chouette) is a good-luck charm: visitors to the church touch the owl with their left hands to make a wish.

Dijon is also famous for Dijon mustard which originated in 1856, when Jean Naigeon of Dijon substituted verjuice, the acidic "green" juice of not-quite-ripe grapes, for vinegar in the traditional mustard recipe.

Burgundy is a notable wine growing region, and there are vineyards, such as Vosne-Romanée and Gevrey-Chambertin, within 20 minutes of the city center. The town's university boasts a renowned oenology institute. The road from Santenay to Dijon is known as the "route des Grands Crus".

Hotel Kyriad Dijon Mirande



In a leafy setting, the Kyriad Hotel Mirande is located close to the University of Dijon as well as the University Hospital. It takes 5 minutes to reach the city centre by tram or by bus from the stop 100 m from the Hotel.

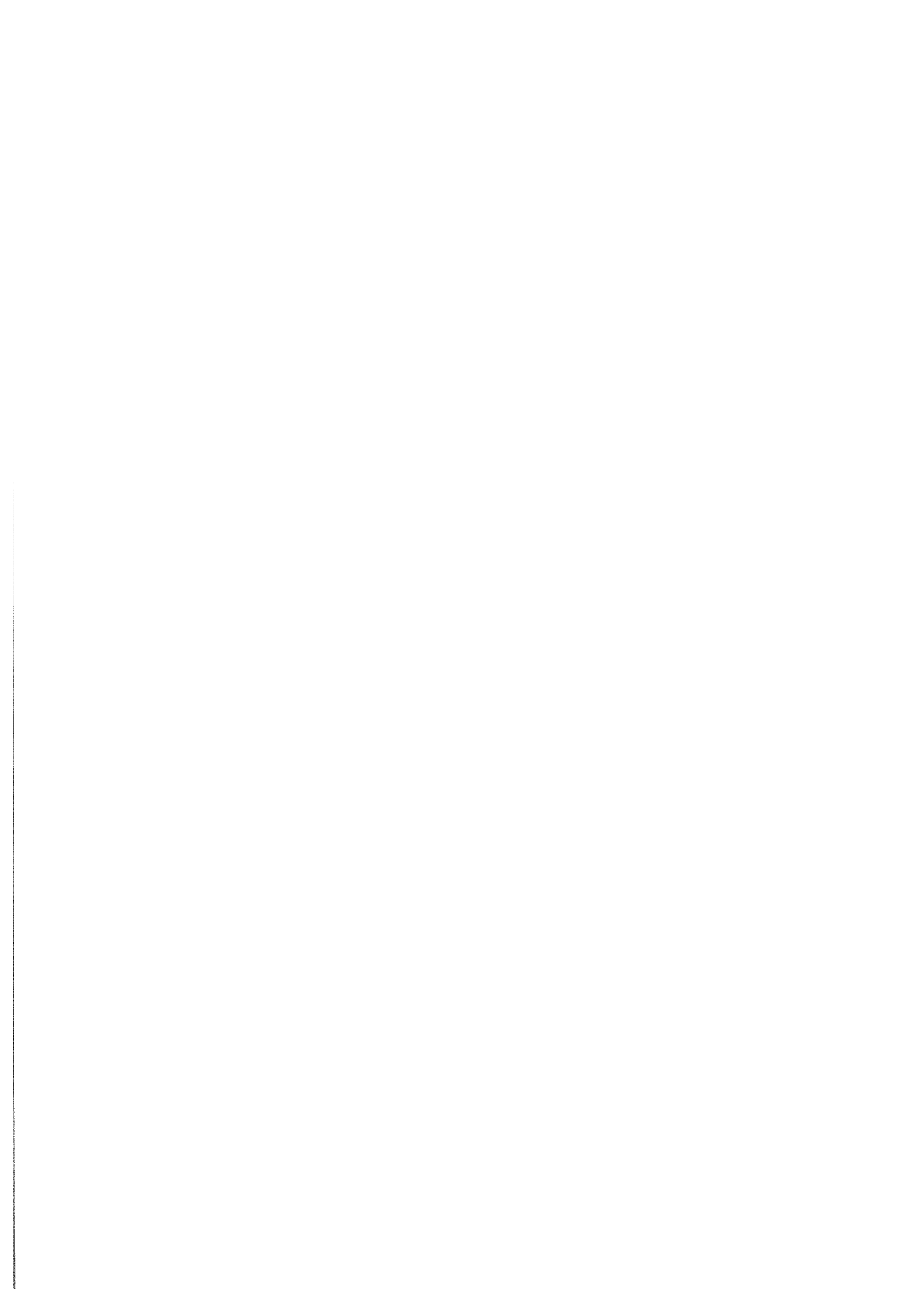
Located to the east of Dijon, the Kyriad Hotel Mirande is close to all the major motorway routes (A6, A38, A39 and AA31) via the ring road. The tram service that stops 100 m from the Hotel will take you to the city centre and the TGV and SNCF railway station in 10 minutes. A shuttle service provides access to Dijon Longvic Airport, 6 km away, or a taxi can be booked on request.

Kyriad DIJON EST - Mirande offers a wide range of services:

- Free WiFi
- Satellite TV
- Parking
- Restaurant and Cocktail Bar

For further informations, see the website of the hotel : [Kyriad Hotel \(in french\)](#)

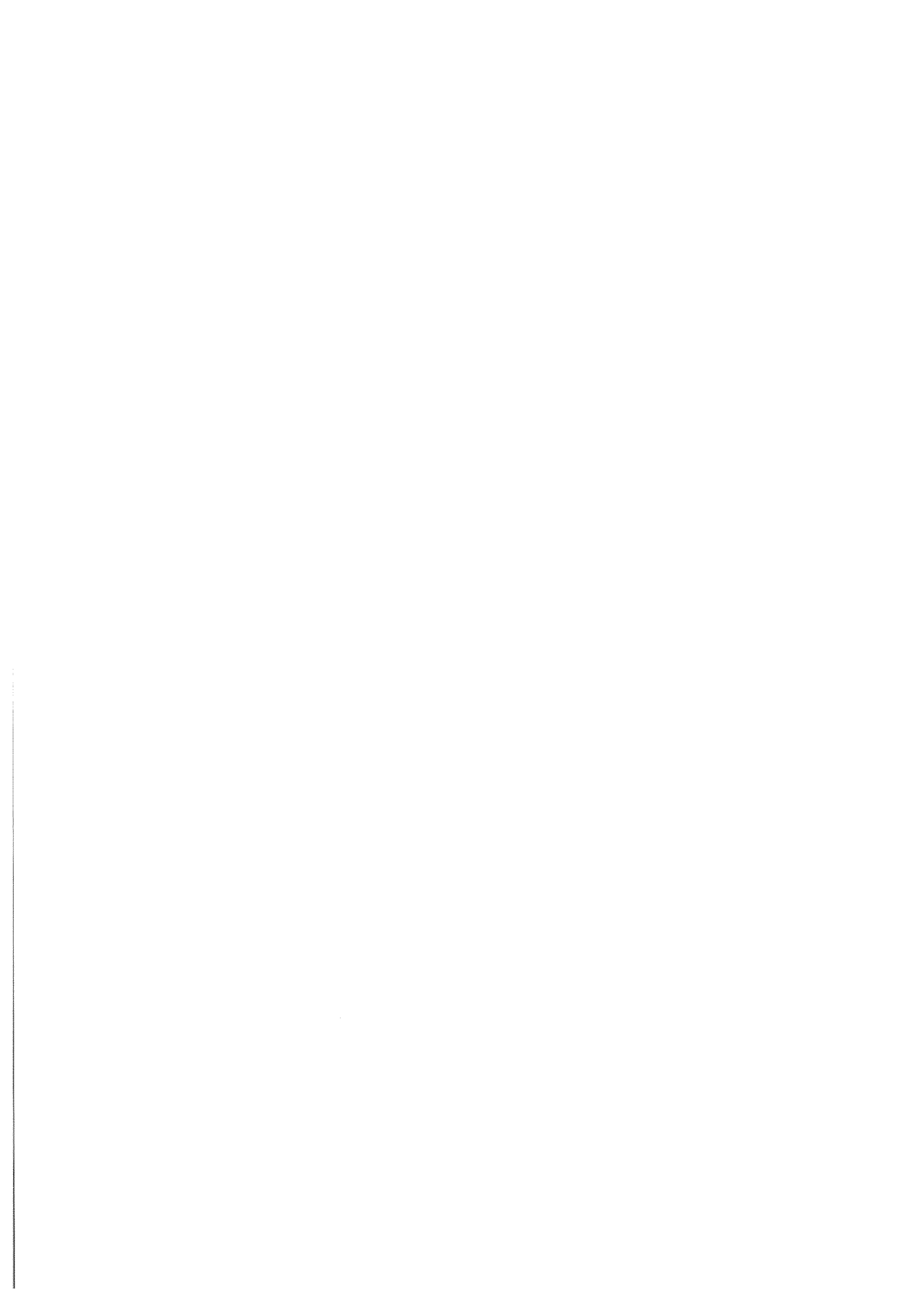
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<u>Travel information</u>	<h3>Conference centre address</h3> <p>Hôtel Kyriad Dijon Mirande 12 – 14 rue Pierre de Coubertin, 21000 Dijon – France</p> <p>Phone number : (+33) 3 80 31 69 12 Fax : (+33) 3 80 36 44 31 E-mail : kyriadest@kyriaddijon.com</p>
<u>General information</u>	
<u>Registration</u>	<h3>How to come ?</h3> <p>Dijon can be reached easily from Paris and international airport Roissy - Charles de Gaulle by fast train (TGV). The trip takes 1 hour 40 minutes. Once in dijon, you can reach the hotel by tram T1, stop "Piscine Olympique". For further informations, see the following websites : Public accomodations in Dijon or Tram in Dijon (in french).</p>
<u>Speakers</u>	
<u>Program</u>	
<u>Organizing Comitee</u>	



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<u>Location</u>	<h3>General notes</h3>
<u>Travel information</u>	<p><i>Registration</i> On arrival, please report to the Hotel Reception to receive your Workshop Badge and the Abstract Book with the printed details of the Workshop program.</p>
<u>General information</u>	<p><i>Accommodation</i> All Workshop participants have been booked into the Kyriad Hotel Dijon Mirande for the duration of their stay.</p>
<u>Registration</u>	<p><i>Lectures</i> All lectures will be held in the Seminar Room of the Kyriad Hotel.</p>
<u>Speakers</u>	<p><i>Posters</i> Poster boards are located in the coffee area near the seminar room.</p>
<u>Program</u>	<p><i>Coffee breaks</i> Coffee will be served in the room adjacent to the Conference Room.</p>
<u>Organizing Comitee</u>	<p><i>Meals</i> Breakfast, lunch and dinner will be provided by the Hotel.</p>
	<h3>Speaker information</h3>
	<p>All lectures will be held in the Hotel Conference Room. A PC with PowerPoint and a projector will be provided. It will also be possible to attach a speaker's laptop to the projector. A laser pointer will be provided. If you need any other equipment, please inform the Coordinator. Please upload your presentation and/or test your laptop the day before your talk if at all possible.</p>
	<h3>Internet access</h3>
	<p>The Hotel provides free Wi-Fi internet access for the duration of the workshop.</p>
	<h3>Car parking</h3>
	<p>The Hotel has a car park.</p>

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Comitee](#)

Speakers

Members of the consortium

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D. Sugny Bourgogne University dominique.sugny@u-bourgogne.fr

Invited Speakers

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J. G. Muga Departamento de Quimica-Fisica Facultad de
Ciencias Apdo 644 Bilbao, Spain Jg.muga@ehu.es

Program

The program of the workshop is now available on this page. Please see the following pdf file:

[Pdf](#)

The list of participants can be found on the following file:

[Pdf](#)

Some slides of the conference can be found below:

Stabilization of stochastic quantum dynamics via open and closed loop control

C. Altafini

[Pdf](#)

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Hamiltonian singularities in the STIRAP process

E. Assémat

[Pdf](#)

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Control and stabilization of the Bloch equation

K. Beauchard

[Pdf](#)

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A spectral condition for the controllability of quantum systems

U. Boscain

[Pdf](#)

[General information](#)

Design of phase free refocusing RF pulses in magnetic resonance imaging at ultra high field and using parallel transmission

N. Boulant

[Pdf](#)

Registration**Energy estimates for bilinear quantum systems with low regularity**

T. Chambrion

[Pdf](#)Speakers**Robust quantum control: from adiabatic to ultrafast processes**

S. Guérin

[Pdf](#)Program**Time averaging and space optimization in calculating multi-spins dynamics in Nuclear Magnetic Resonance**

A. Karabanov

[Pdf](#)Organizing
Comitee**Analytic coherence transfer functions**

B. Luy

[Pdf](#)**Rydberg single photon source at room temperature**

M. Muller

[Pdf](#)**Shortcuts to adiabaticity I**

G. Muga

[Pdf](#)**Optimal control of vibrational cooling with specially tailored functionnals**

D. Reich

[Pdf](#)**Stabilization of Schrodinger cats in a cavity by reservoir engineering**

P. Rouchon

[Pdf](#)**Shortcuts to adiabaticity II**

A. Ruschhaupt

[Pdf](#)**Good news for controlling open systems**

T. Shulte-Herbruggen

[Pdf](#)**Control and characterization for human-made qubits**

F. K. Wilhelm

[Pdf](#)

Workshop QUAIN'T Dijon 8-10/04/2013

Liste des participants au Workshop

Noms	Université
I. Kuprov	Southampton University
A.Karabanov	Nottingham University
C. Koch	Kassel University
D. Reich	Kassel University
B. Luy	Karlsruhe University
A.Pechen	Weizmann Institute
E. Assémat	Weizmann Institute
F. Langbein	Cardiff University
F. Wilhelm	Sarrebruck University
N. Nielsen	Aarhus University
S. Machness	Tel Aviv University
S. Schirmer	Swansea University
S. Glaser	Munich University
T. Shulte-Herbruggen	Munich University
U. Boscain	Ecole Polytechnique, Paris
Z. Tosner	Prague University
D. Sugny	Bourgogne University
P. Rouchon	MinesParisTech
M. Sigalotti	INRIA Saclay
C. Altafini	SISSA
K. Beauchard	Ecole Polytechnique, Paris

Igor Dotsenko	Laboratoire Kastler Brossel
Nicolas Boulant	NeuroSpin, CEA Saclay
Thomas Chambrion	Laboratoire Elie Cartan, Nancy
J. G. Muga	Departamento de Quimica-Fisica, Bilbao
R. Long	Princeton University
M. Ndong	Bourgogne University
Hans Jauslin	Bourgogne University
Stéphane Guérin	Bourgogne University
Ariane Garon	Munich University
Per Liebermann	Sarrebruck University
Markku Stenberg	Sarrebruck University
Matthias Mueller	Ulm University
Andreas Ruschhaupt	Cork University
Ghassen Dridi	Ecole Polytechnique, France

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<u>Location</u>	
<u>Travel information</u>	<p>D. Sugny, Laboratoire Interdisciplinaire Carnot de Bourgogne, dominique.sugny@u-bourgogne.fr, tel.: (+33) 3 80 39 59 72</p>
<u>General information</u>	<p>U. Boscain, Ecole Polytechnique, Paris, boscain@cmap.polytechnique.fr</p>
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<u>Speakers</u>	
<u>Program</u>	
<u>Organizing Comitee</u>	

