



Blaise Pascal (1623-1662)

ACCUEIL DU SITE

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NEWS

RECHERCHE

dans :

Tout le site ▾

OK

NEWS CBP

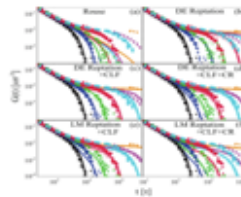
Aujourd'hui

◀ D W M ▶

septembre 2010 -
septembre 2010

Mo	Tu	We	Th	Fr	Sa	Su
30	31	01	02	03	04	05
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13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	01	02	03

🖨️ Français ▾



PUBLICATIONS

"Stress Relaxation in Entangled Polymer Melts"

Ji-Xuan Hou

Carsten Svaneborg

Ralf Everaers

Gary S. Grest

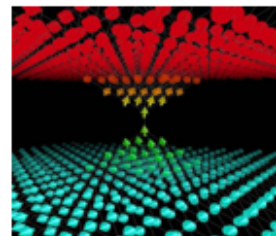


WORKSHOPS

Frontiers in Computational Astrophysics: Particles and Flames in Magnetic and Radiative Flows

Location : Centre Blaise Pascal, ENS-Lyon, France

October 11, 2010 - October 15, 2010



WORKSHOPS

Théorie et modélisation pour le magnétisme: de la molécule au transport polarisé en spin

Location : Centre Blaise Pascal, ENS-Lyon, France

November 3, 2010 - November 5, 2010

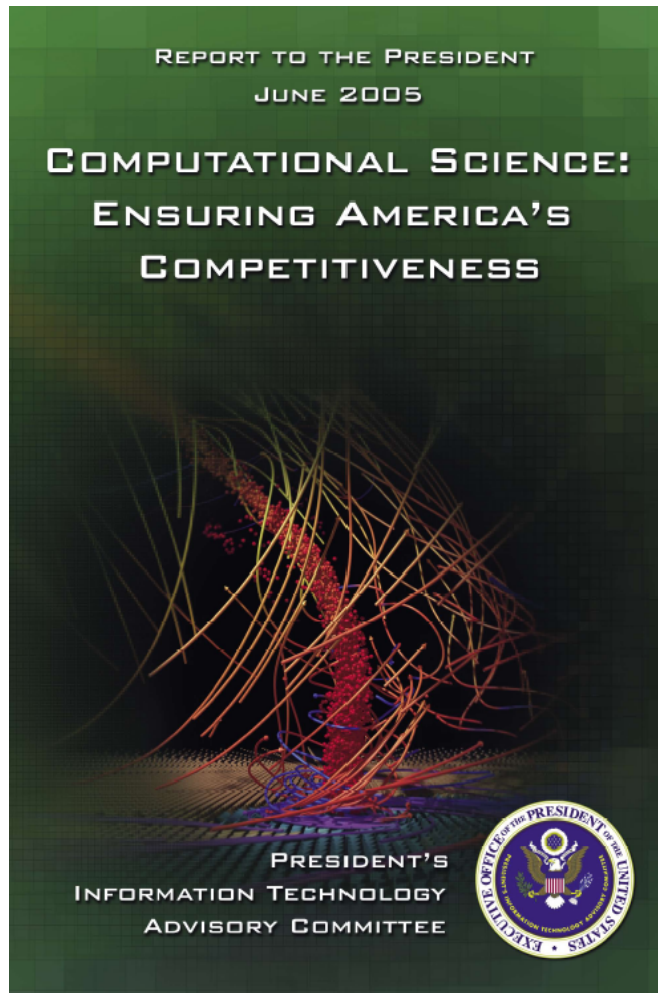


RESEARCH

ANR-SYSCOM STATOCEAN NUMERICAL COMPUTATION OF LARGE DEVIATIONS AND OUT-OF-EQUILIBRIUM STATISTICAL MECHANICS OF TURBULENT FLOWS

- Freddy BOUCHET
ENS-Lyon and CNRS

Context



Importance: Computational science major tool of 21st century

Resources: Long-term planning

Changing mentalities: overcome boundaries between disciplines.

Organisation: universities should create interdisciplinary structures and encourage collaborative research efforts

Creation of networks: connect centers of excellence and distribute knowledge and software

Context



Equip@Meso



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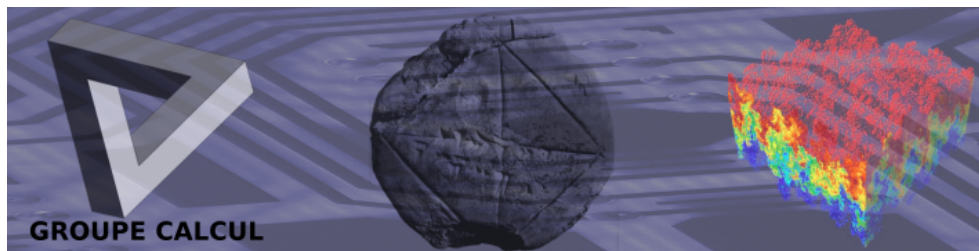
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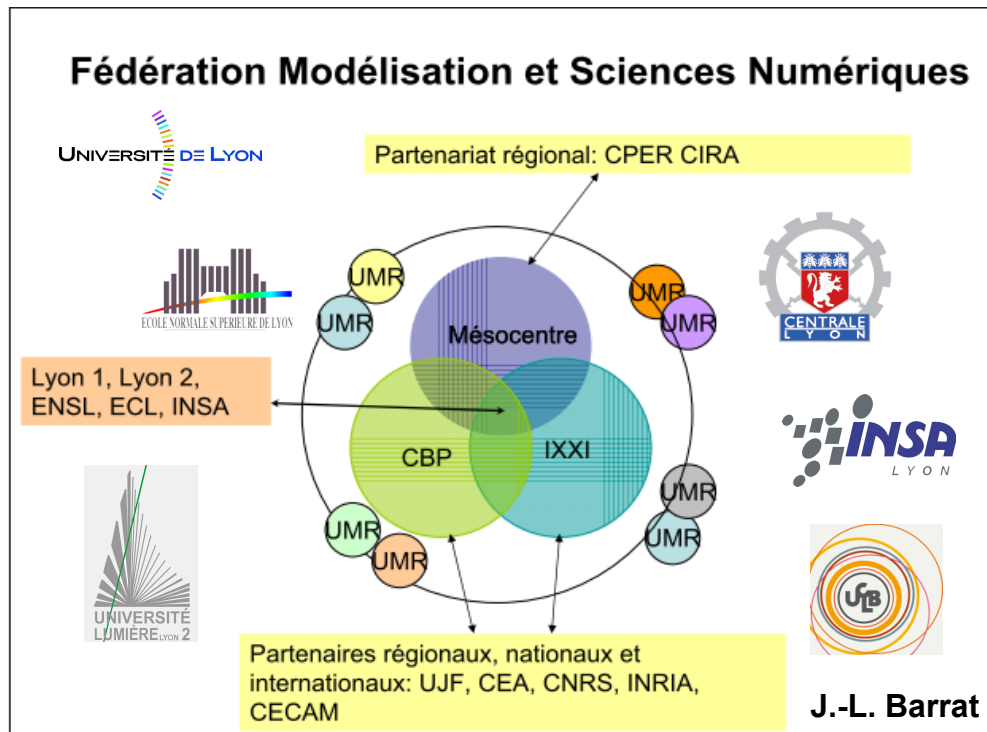
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Lyon



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CENTRE BLAISE PASCAL
"Les sciences du calcul seront l'outil majeur du XXI^e siècle."
Blaise Pascal (1623-1662)

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dans :
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(2009)

Centre Blaise Pascal

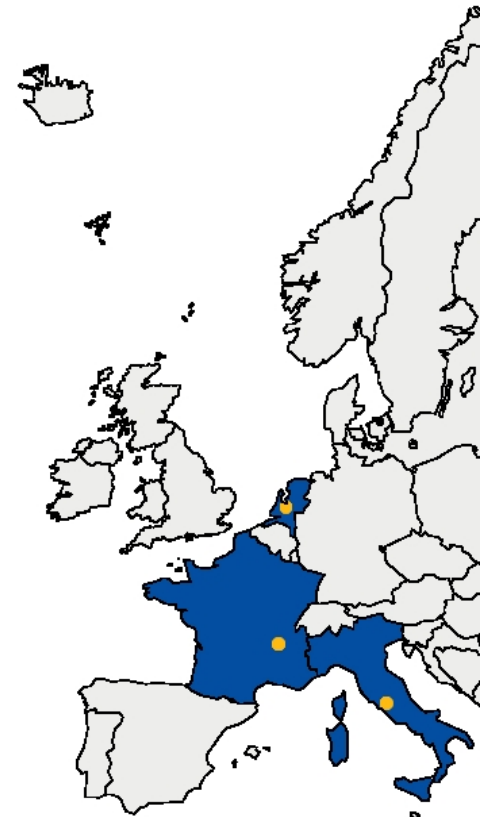
- Lieu de conférence, recherche et formation



Centre Blaise Pascal

- **Lieu de conférence, recherche et formation**

AtoSiM Erasmus Mundus Master
in Atomic Scale Modelling of Physical, Chemical
and Biomolecular Systems



Centre Blaise Pascal

- **Lieu de conférence, recherche et formation**

Hôtel à projets

- **CE - Marie Curie**
 - European PhD program in Molecular Simulation
 - Lyon / Cambridge / Amsterdam / Mayence
- **ANR**
 - Soft and biological matter (R. Everaers)
 - StatMech of Turbulence (F. Bouchet)



- **KAUST global research and education network**
 - Molecular modeling of catalysis (P. Sautet)
 - IFP / CNRS / ENS-L
- **Ministre de l'Économie, de l'Industrie et de l'Emploi**
 - Computational Fluid Dynamics (E. Leveque)
 - Renault

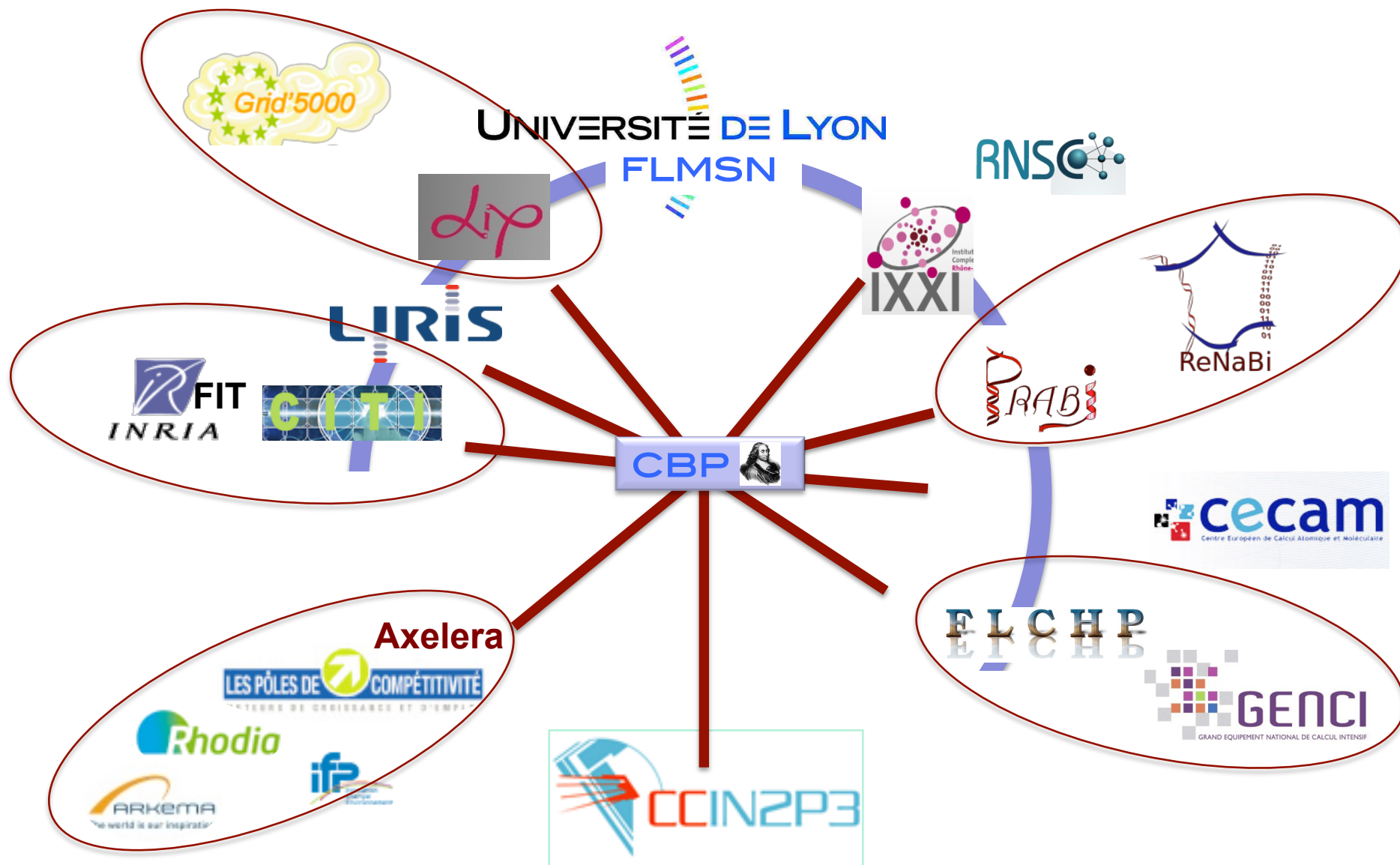


Centre Blaise Pascal

■ Lieu de conférence, recherche et formation

- "Développements et Applications de Méthodes de Simulation pour la Modélisation des Matériaux" (28-30 septembre 2009)
- "Turbulence, Rotation et Magneto-Hydrodynamics" (15 décembre 2009)
- "Topological Insulators and Quantum Spin Hall effect" (09-11 décembre 2009)
- "Coarse-Grain Mechanics of DNA: Bases to Chromosomes" (1-4 juin 2010)
- "Frontiers in Computational Astrophysics: Particles and Flames in Magnetic and Radiative Flows" (11-14 novembre 2010)
- "Complex dynamics of fluids in disordered and crowded environments" (28 juin - 1 juillet 2010)

The screenshot displays the website for the Centre Blaise Pascal at ENS de Lyon. The header includes the ENS de Lyon logo and the quote: "Les sciences du calcul seront l'outil majeur du XXIe siècle." A portrait of Blaise Pascal is also present. The navigation menu contains: ACCUEIL DU SITE, LE CENTRE, ACTIVITES, RECHERCHE, PARTENAIRES, APPELS, INFO / LINKS, and NEWS. The left sidebar has sections for ACTIVITES (with sub-links: Workshops, Séminaires / Colloques, Tutoriels / Formations, AtoSIM), RECHERCHE (with a search bar), and NEWS CBP (with a calendar for September 2010). The main content area features a banner for "Workshops 2010" with a photo of a bridge. Below this is an announcement for the "Coarse-Grain Mechanics of DNA: Bases to Chromosomes" workshop, held from June 1 to June 4, 2010, at the Centre Blaise Pascal, ENS-Lyon, France. The announcement lists speakers: Ralf Everaers (École Normale Supérieure de Lyon, France), Helmut Schiessel (Institut-Lorentz for Theoretical Physics, Leiden, The Netherlands), and John H. Maddocks (Ecole Polytechnique Fédérale de Lausanne (EPFL), Switzerland). A molecular model of DNA is shown at the bottom left of the announcement.



Needs

Multiscale modeling in

- **Physics / Chemistry / Engineering**
- **Systems Biology**

Transfer of competence from

- **Numerical mathematics**
- **Computer science**

ENGINEERS!!!!

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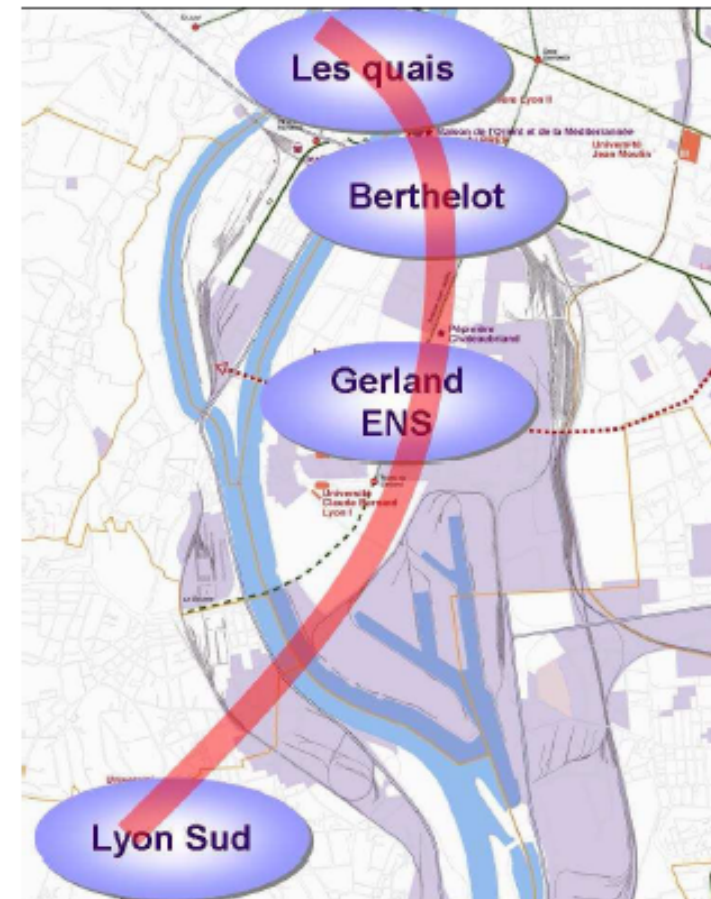
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CBP / Plan Campus

- nouveau bâtiment CBP + IXXI
 - **50** participants régionaux / internationaux dans un programme thématiques longue
- plus
- **50** chercheurs dans l'hôtel à projets
- plus
- **50** étudiants dans un tutorial
- plus
- **50** participants d'un workshop court

Charles Mérieux: un campus en devenir, un lien urbain à affirmer



Objectif à long terme



- programmes thématiques de longue durée (> 1 mois)
 - Newton Institute (Cambridge)
 - Kavli Institute of Physics (Santa Barbara / Beijing)
 - Max-Planck Institute (Dresden)



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