

The Brussels Node

Carlo Maccaferri

Network fellow: 01/10/06 – 31/08/07

Université Libre de Bruxelles

Vrije Universiteit Brussel

The International Solvay Institutes

Brussel node - presented by Carlo
Maccaferri

The Brussels node consists of two groups at two universities!



- Vrije Universiteit Brussel (VUB)



- Université Libre de Bruxelles (ULB)

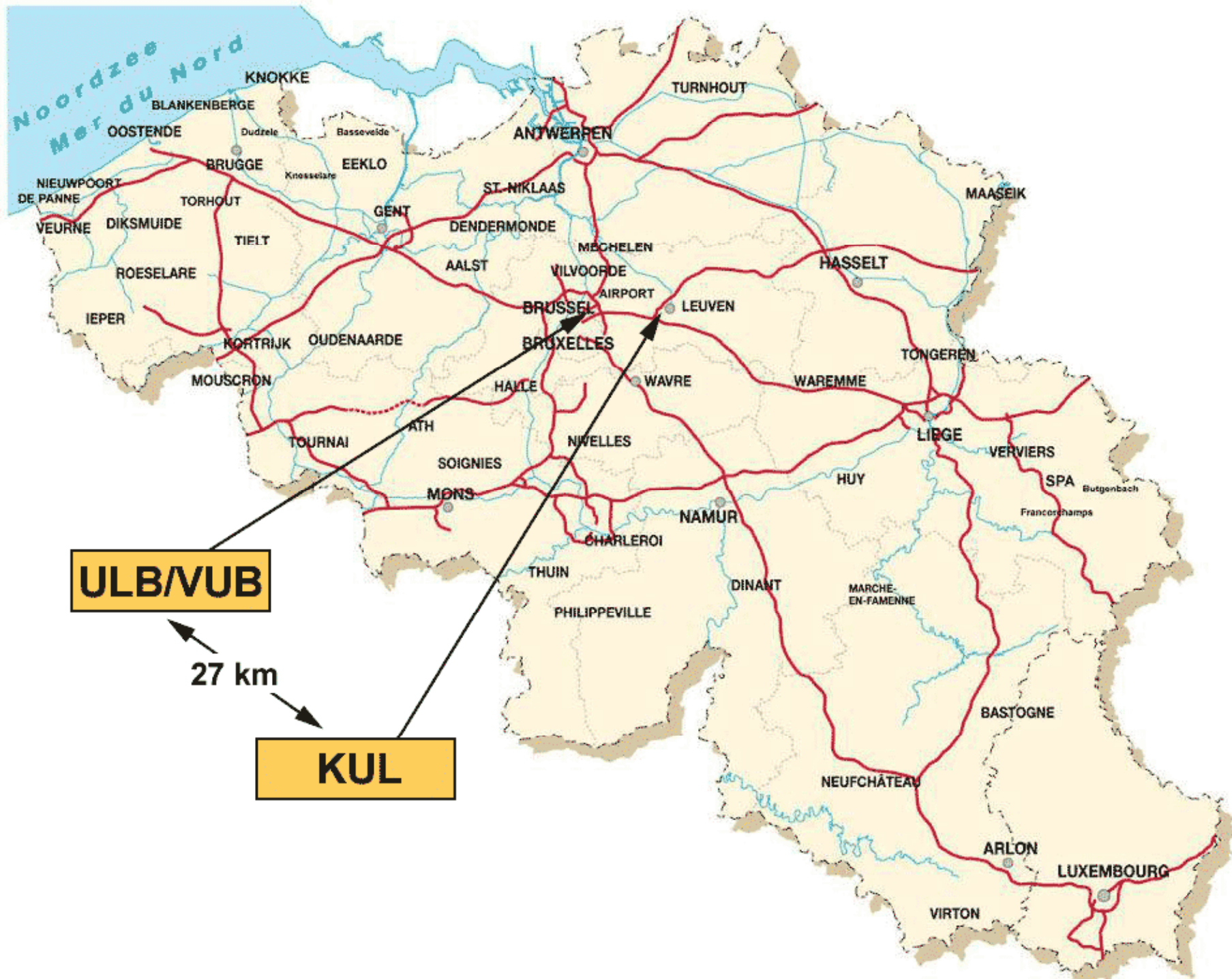
The two universities are different legal entities. The Université Libre de Bruxelles (ULB) is associated with the French speaking part of Belgium while the Vrije Universiteit Brussel is associated with the Flemish (Dutch) speaking part of Belgium. Both are located on the same campus in Brussels and when translating their names into English you obtain twice: Free University of Brussels...

The groups involved are

- Vrije Universiteit Brussel (VUB):
Theoretical High Energy Physics Group
- Université Libre de Bruxelles (ULB):
*Physique mathématique des interactions
fondamentales*

Close relations with:

- *High Energy Physics and Relativistic Field Theory group* (Leuven)
- *Service de Physique Théorique* (ULB)



Permanent staff

- VUB: Ben Craps
Alexander Sevrin
- ULB: Riccardo Argurio
Glenn Barnich
François Englert
Frank Ferrari
Marc Henneaux
Laurent Houart

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Postdocs

- **VUB:** A. Keurentjes, C. Maccaferri, O. Evnin
- **ULB:** F. Bigazzi, C. Krishnan, S. Kuperstein, C. Maccaferri

Students

- **VUB:** D. Terryn, A. Bernamonti, F. De Roo, W. Staessens
- **ULB:** N. Bouatta, C. Closset, E. Jasmin, D. Persson, N. Tabti, V. Wens

Local integration

- Since long close collaboration both at the senior and the junior level.
- Joint weekly ULB/VUB/KUL seminar/lecture series.
- Graduate students and postdocs have their own summer school (Modave I, II, III)

Science

- String Theory & Cosmology
- Extended symmetries in String Theory and Supergravity (E_{10} , E_{11})
- Alpha'-corrections
- Susy and D-brane geometry
- Non-perturbative aspects of Gauge Theories
- Gauge/Gravity
- Higher Spins
- String Field Theory

The International Solvay Institutes for Physics and Chemistry

- Both groups are embedded in the International Solvay Institutes.
- Organizes regularly workshops (e.g. *Gauge Theories, Strings and Geometry*, May 2007; *Random Matrices*, September 2007, ...).
- International Solvay Chair in Physics (2007: Michael Berry; 2008: David Gross)
- Colloquia and public lectures
- The Solvay Conferences of Physics (23rd in 2005: The Quantum Structure of Space and Time, chair: David Gross; 24th in 2008: The Quantum Theory of Condensed Matter, chair: Bertrand Halperin)

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