



This Summer in the United States, the Board will present the state of the art in Noncommutative Geometry and Algebraic K-theory, as well as the interrelations between the two subjects.

**Long courses**

Jean-Claude COUSMEZ Fabrice MOREL Boris TSYGAN	Course on the Conjecture of Poincaré (homotopy invariance and algebraicity) Introduction to noncommutative geometry: theory of algebras Cyclic homology, noncommutative differential calculus and index theory
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**Short courses**

Ronitt RUBinfeld Lars HESSELMANN Vladimir LAFITZBERG Sylvain MONTAUDO Victor MIKULOVIC Dmitri TAMARKIN	Connections with K-theory The de Rham-Dirac complex and topological modular forms Elliptic theory and applications Deformation quantization and index theory K-theory and cyclic homology Groups and families of varieties
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**Series of lectures on advanced subjects**

Paul BAUM, Jean-Benoît BOUTONNET, Jean-Louis LIGER, Michel DUBOIS-VILLENEUVE, Alexander GRINBERG,  
 Nigel HARRISON, Hiroaki KIKUCHI, Marius MIKULOVIC, Hans-LUDWIG HOOFT, MURRAY ROSE,  
 Christian WITTEN, Mircea WUJICIC

**Workshops, seminars, discussion groups**

We plan to organize three workshops during the summer devoted to the following subjects:  
 Applications to Theoretical Physics, index problems and Gravity Research, Poincaré  
 Dual algebras, about the future will be devoted to seminars and discussion groups on special topics.

## PROGRAMME, PAST

### T2-2004 K-theory and noncommutative geometry

**Start date** : 1 March 2004 - **End date** : 13 July 2004

### K-theory and noncommutative geometry

1er mars - 13 juillet 2004

### Organizers :

M. Karoubi, R. Nest

### More Information :

URL of the page: <https://www.ihp.fr/en/news-research-activities/t2-2004-k-theory-and-noncommutative-geometry>

*Registration on :*

**Registration are closed**

Financial support requests are now closed.

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Through the CIMPA-CARMIN program the organizers wish to fund, with the support of the Labex CARMIN, the CIMPA and IHP, the participation of several young mathematicians from developing countries to the activities of the semester.

Young scientists (master students soon looking for a PhD, PhD students, postdocs) meeting those criteria and interested in the topics are much encouraged to apply for a support to participate on [the CIMPA web page](#).



## **INSTITUT HENRI POINCARÉ**

Sorbonne Université / CNRS  
11 rue Pierre et Marie Curie  
75231 Paris Cedex 05

### **TIMETABLE**

The institute:

- Monday to Friday from 8:30am to 6pm,
- closed on public holidays.

The museum - Maison Poincaré :

- Monday, Tuesday, Thursday and Friday from 9:30am to 5:30pm,
- Saturday from 10am to 6pm,
- closed on Wednesday and Sunday.