

Théorie des déformations, cohomologie complétée, conjecture de Leopoldt et K-théorie
Deformation theory, completed cohomology, Leopoldt conjecture and K-theory

Luminy (CIRM), 5-9 / 12 / 2016

The colloquium is supported by the Clay Math. Institute, the Department of Mathematics of Université Paris-Sud-11 and the Institut Universitaire de France

Program

Monday 5

Morning : Benjamin Schraen, Introduction to completed cohomology (2 hrs)

Afternoon :

Vincent Pilloni, Torsion in the cohomology of locally symmetric spaces (d'après Scholze) (2 hrs)

James Newton, Deformation theory of Galois representations (1 hr)

Tuesday 6

Morning : Soren Galatius, Algebraic K-theory (2 hrs)

Afternoon : James Newton, Deformation theory of Galois representations (1 hr)

Frank Calegari, Completed K-theory (2 hrs)

Wednesday 7

Morning : Jack Thorne , Modularity of non-polarizable representations (d'après Calegari-Geraghty)
(3hrs)

Afternoon : free (calanques).

Thursday 8

Morning : Patrick B. Allen, Khare and Thorne's big ordinary R=T theorem (2hrs)

Afternoon : Frank Calegari, Completed K-theory (1hr)

Soren Galatius, Simplicial deformation rings (1hr)

Galatius-Venkatesh, TBA (1hr).

Friday 9

Morning : Patrick B. Allen, Hida's conjecture and the Leopoldt conjecture (1hr)

Ana Caraiani, On the generic part of the cohomology of certain unitary Shimura varieties (1hr)

Afternoon :

Galatius-Venkatesh, TBA (1 hr).