

# **Workshop on B decay into $D^{**}$ and related issues**

**lundi 26 novembre 2012 - mercredi 28 novembre 2012**

**Jussieu**

## **Programme Scientifique**

Role of the broad  $D^{**}$  resonances in

- semi-leptonic  $B \rightarrow [D^{**}, D^*\pi, D\pi\pi] l \nu$
- hadronic  $B \rightarrow [D^{**}, D^*\pi, D\pi] \pi$

The form factors for  $B \rightarrow D^{**}$

- Theoretical model computation (sum-rule, lattice etc)
  - Experimental situation
  - Comparison (contributions from radial excitation, correction from infinite-mass-limit)
- How to improve the theoretical computation of  $B \rightarrow D^{**}$  form factor by lattice
- Issues in the spectrum computations (cut-off effects from charm quark, multi-hadron states with slow pion)
  - $B \rightarrow D^{**}$  form factor at static limit of HQET
  - Lattice computation of  $B \rightarrow D^{*2}$  and  $D^{*0}$  (new parameterization)