



## Structures in local quantum field theory

Summer school Les Houches — June 7-25, 2010

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Scientific Advisory Committee: Spencer Bloch (U. Chicago), D. Broadhurst (Open U.), Francis Brown (I. Math. Jussieu), Nigel Glover (Durham U.), Dirk Kreimer (IHES)

Topics include:

- Perturbative quantum field theory, Hopf algebras and renormalization
- Feynman diagrams, Hodge structures and algebraic geometry
- AdS/CFT correspondence and Britto-Cachazo-Feng-Witten recursions
- QFT and Dyson–Schwinger equations in gauge theory and quantum gravity

Speakers include:

- Spencer Bloch          Ruth Britto          David Broadhurst          Francis Brown
- Johannes Bluemlein      Nigel Glover          Gregory Korchemsky      Dirk Kreimer
- Matthias Staudacher      Matt Szczesny      Walter van Suijlekom      Karen Yeats

The school will be open by invitation only to approximately 45 participants. Applications should be made after January 20, 2010 and before April 30, 2010. Participants are expected to cover their own travel. In addition, the cost of the school, including full board and accomodation, will be 750 Euros.

See <http://math.bu.edu/people/dkreimer/houches/houches.html>  
or <http://houches.ujf-grenoble.fr/> for school and registration details.

Our thanks to the following organizations for partially funding the conference:

**Institut des Hautes Etudes Scientifiques** ([www.ihes.fr](http://www.ihes.fr))

**Clay Mathematics Institute** ([www.claymath.org](http://www.claymath.org))

**Institut Henri Poincaré** ([www.ihp.jussieu.fr](http://www.ihp.jussieu.fr))

Conference organizers:

Spencer Bloch (Chicago U.), Francis Brown (Inst. Math. Jussieu), Dirk Kreimer (IHES)

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