

**Workshop « Disordered quantum systems »**  
**April 23<sup>th</sup> – July 20<sup>th</sup>, 2012**

All the events of the workshops will take place at IHP, 11 rue Pierre et Marie Curie, Paris 5<sup>ème</sup>.

**Program from May 7<sup>th</sup> to 11<sup>th</sup>, 2012**

**MONDAY MAY 7<sup>th</sup>, 2012**

11 am – 12.30 pm Lecture (Amphithéâtre Darboux)

**Giorgio PARISI : Glassy states of matter (II).**

2.30 pm – 4 pm Lecture (Amphithéâtre Darboux)

**Hidetoshi NISHIMORI : Quantum annealing: convergence theorems and the choice of quantum terms.**

**TUESDAY MAY 8<sup>th</sup>, 2012**

**FREE DAY – IHP CLOSE HIS DOORS**

**WEDNESDAY MAY 9<sup>th</sup>, 2012**

10 am – 11 am Lecture (Amphithéâtre Hermite)

**Giorgio PARISI : Glassy states of matter (III).**

**THURSDAY MAY 10<sup>th</sup>, 2012**

10 am – 1 pm Session on quantum annealing (Amphithéâtre Hermite)

**Florent KRZAKALA : First-order transitions and the performance of quantum algorithms in random optimization problems.**

**Guilhem SEMERJIAN : On quantum mean-field models and their quantum annealing.**

**Jorge KURCHAN : A case for which quantum annealing does work: the sign problem**

**FRIDAY MAY 11<sup>th</sup>, 2012**

2.30 pm – 3.30 pm Seminar (Amphithéâtre Darboux)

**Mikhail ZVONAREV : Mobile impurity in a one-dimensional gas.**

**4 pm – 4.30 pm – Tea break on the second floor**