

# **SM and BSM physics at the LHC**

**Monday 3 August 2009 - Friday 28 August 2009**

**CERN**

## **Scientific Programme**

### **1/Weekly kickoff meetings**

We propose to kickoff each week with an opportunity for (almost) everyone to review what they are doing. The Monday afternoons will be allocated to 10' presentations by the newcomers of the week: just few slides to introduce your latest work or to propose discussion topics. No need for discussion right away, there is the rest of the week for that. If some of the topics that emerge from the presentations are deemed interesting, then there will be the possibility to schedule a more complete presentation, or a discussion session, during the week. Please send your request to speak to the weekly conveners (see below)

### **2/ Coffee party:**

Every morning there will be a joint coffee-party at 10am in the TH common room. They should be the place of informal lively discussions.

### **3/ Topical discussions:**

Each week, two afternoons or so will be reserved for topical discussions. Any suggestion is welcome: e-mail the conveners.

So far we have identified the following topics:

week 1: PDFs, as part of the PDF4LHC meeting that will take place on August 6th-7th

week 2: (i) initial-state radiation and underlying event, (ii) parton shower-matrix element matching

week 3: (i) 4th generation, (ii) SUSY breaking

week 4: composite Higgs/top

### **4/ Conveners:**

Weekly conveners will have the responsibility of the smooth running of the Institute. They will decide on the talks and discussion sessions. All requests should be directly addressed to them.

Week 1+2: Michelangelo Mangano ([michelangelo.mangano@cern.ch](mailto:michelangelo.mangano@cern.ch)) + Stefano Frixione ([stefano.frixione@cern.ch](mailto:stefano.frixione@cern.ch)) + Bryan Webber ([webber@hep.phy.cam.ac.uk](mailto:webber@hep.phy.cam.ac.uk)) + Mike Seymour ([michael.seymour@cern.ch](mailto:michael.seymour@cern.ch))

Week 3+4: Gia Dvali ([georgi.dvali@cern.ch](mailto:georgi.dvali@cern.ch)) + Christophe Grojean ([christophe.grojean@cern.ch](mailto:christophe.grojean@cern.ch)) + James Wells ([james.wells@cern.ch](mailto:james.wells@cern.ch))

### **5/ TH colloquia:**

There will be four TH colloquia organized jointly as part the regular activities of the TH unit and the Institute activities.

August 5th: R. Thorne on "PDFs"

August 12th: G. Salam on "jet algorithms"

August 19th: M. Schmaltz on "susy breaking"

August 26th: G. Gabadaze on "new state of matter in white dwarfs"