

# **Workshop on Photon Physics and Simulation at Hadron Colliders**

**vendredi 30 mars 2012 - vendredi 30 mars 2012**

## **Programme Scientifique**

The goal of the workshop is to discuss the following items:

properties/characteristics of available NLO prompt photon generators (JetPhoX, DiPhoX, Sherpa, ResBos, PowHeg, Grappa, 2gNNLO)

treatment of fragmentation and of isolation in LO and NLO generators

isolation prescriptions alternative to the fixed cone one (Frixione...)

experimental isolation prescription and link to theory: track vs calorimeter isolation, UE/pile-up

corrections, how to link parton-level to particle-level to experimental isolation

Presentations from authors of LO and NLO generators and from experimental particle physicists with experience in photon production at TeVatron and LHC are foreseen.

A significant fraction of the time of the workshop will be devoted to discussion.

Participation from interested physicists, either theorists or experimentalists, is welcome!