

# **FCPPL Quarkonium Production Workshop**

**Thursday, March 30, 2017 - Saturday, April 1, 2017**

**Peking University**

## **Scientific Program**

The workshop will consist on 5 half-days, each will be devoted to a specific topic with theory and experimental presentations:

Quarkonium production in proton-proton collisions at RHIC, Tevatron and the LHC (cross section, polarisation, feed-down, ...)

Quarkonium production in proton-nucleus collisions from SPS, to the LHC

Quarkonium production in nucleus-nucleus collisions from SPS, to the LHC

Prospects for quarkonium production at the LHC in the fixed target mode (nuclear effects, QGP studies, TMD extraction, ...)

New observables in quarkonium production (quarkonium pair, quarkonium + vector boson, quarkonium + heavy quarks, Higgs to  $J/\psi + \gamma$ , yield and polarisation vs multiplicity, isolated quarkonium production, ...)

## **Proton-proton collisions**

## **Proton-nucleus collisions**

## **Nucleus-nucleus collisions**

## **Prospects for the fixed target mode at the LHC**

## **New observables**