

BSM Physics in the LHC era

Brainstorming Workshop

Korea Institute for Advanced Study, Seoul, March 11

Organized by K. Cho (KISTI), P. Ko (KIAS), A. Savoy-Navarro(CNRS-IN2P3)

Starting point of this workshop

Its starting point is the collaborative effort that was created with the FKPPL exchange program between France and Korea teams working on CDF since 2008 till now. This was launched by K. Cho (KISTI) and A. Savoy-Navarro (CNRS-IN2P3) in 2008. We had two successful 3 days workshops:

First at the University Pierre and Marie Curie in Paris in 2009, organized by Dr. A. S-N.
Second at the Kyungpook National University in 2010, organized by Pr. DongHee Kim



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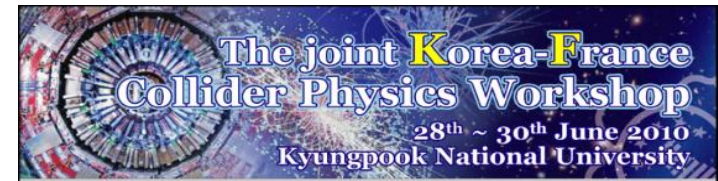
PARIS, JUNE 29-JULY 1



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The joint Korea-France Collider Physics Workshop

28th ~ 30th June 2010
Kyungpook National University

Topics :

- Hadron Collider Physics (Tevatron, LHC)
- Lepton Collider Physics (KEK-B, ILC)
- Phenomenology

Local Organizing Committee

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Additional information :
<http://wcu-ccp.knu.ac.kr/KRFR2010>

Workshop Goals

This workshop is intended to be the first of a series in order to:

- 1) to define experimental and theoretical ways to explore BSM based on common research interests.
- 2) To pursue them in a collaborative spirit.
- 3) To be a place (forum) for discussions and not only a series of formal presentations in front of a “passive” audience...
- 4) To launch collaboration work both on the experimental and theoretical sides.
- 5) To be opened to other collaborators.

WORKSHOP OUTLINE

- CDF still ongoing activities and legacy

Our teams have been heavily involved in CDF, the main latest analyses covers B-Physics, with lately $B_s \rightarrow \mu\mu$, B_s - Mixing & CPV, several aspects of the Top Physics (top into dileptons studies, FB asymmetry, M_{t2} based analysis, Top into tau and impact on Higgs sector, single top and W')

- LHC

Opened and exciting new research space with High Pt Physics as main focus. Our long time experience in CDF provide us a very useful legacy.

But this workshop series in collaboration theoretician colleagues should open us to new possible searches and vis and versa.

- Dedicated experiments at the LHC era that can give BSM important results: Muon $g-2$ /EDM, Neutrino, SuperBelle.

In this workshop we will have an introduction to LFV, PMNS & CKM theory, to the new proposal at JPARC KEK on Muon $g-2$ /EDM experiment and to BELLE II; RINO neutrino experiment could not attend as it is its “inauguration day”.

Workshop attendance today

- the FKPPL teams, i.e. experimental teams that were involved in the FKPPL France-Korea program focusing on CDFII
- Theoreticians from KIAS, KISTI and CEA-Saclay
- The EVO connection will also be widely used and today we are joined from DESY, Jordan, FNAL and Korea.

These workshops will invite as we do today external experts.

The final goal for this year is to
organize a workshop in Paris
by end of 2011
to review our achieved work.