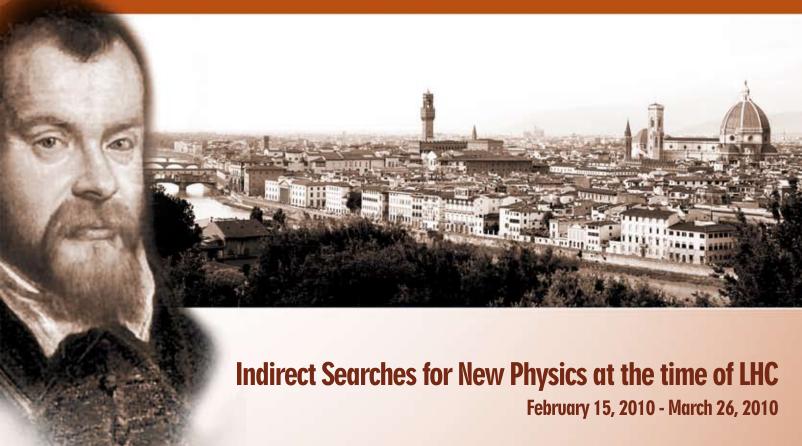






## The Galileo Galilei Institute for Theoretical Physics Arcetri, Florence



Jo Galilas Galilas

## The main topics of the workshop include:

- Interplay between low energy and high  $p_T$  physics in constraining New Physics or, in case of discoveries, in understanding its detailed structure
- Flavour and CP violation in the quark and leptonic sectors
- CP violation in flavour conserving transitions (EDMs)
- Precision studies in flavour and CP conserving observables like (g-2) of the muon

Low energy precision experiments test the predictions of the Standard Model to a high level of accuracy. They also put stringent constraints on the possible New Physics, the masses of the new particles it entails, their couplings, the symmetries it may or may not violate. The indirect searches are therefore complementary to the direct searches for new particles at the Tevatron and the LHC but they can in principle be sensitive to much shorter scales than the latter experiments. In early 2010 the physics results of the B factories and of Tevatron will be close to final and the first results of several flavour physics experiments may become available. At the same time Tevatron should provide more precise values of the W and top masses, as well as important constraints on the Higgs mass range.

The convergence of these new precision data with the first findings of LHC experiments should make 2010 an ideal moment for an investigation of the interplay between high energy frontier (direct searches) and high intensity frontier (indirect searches).

## Organizing Committee:

Andrzej Buras, Technical University Munich, Germany Paolo Gambino, Universita' di Torino, Italy Yossi Nir, Weizmann Institute, Rehovot, Israel Paride Paradisi, Technical University Munich, Germany Cecilia Tarantino, Università di Roma Tre, Italia