Today’s highlights

Supersymmetric theories to stringy Yukawa’s models and holography, from graviton radiation in high theories, from loop-tree duality to strongly coupled ranging from QCD to UV properties of effective field

Recent developments in Quantum Fields and Strings

Room Welles

The LHC experiment pushes advancement in theory. of the fiducial cross section and distributions from ATLAS and CMS, demonstrating that the advancing precision of the LHC lead-lead collisions. Full blown program of top physics measurements at Tevatron and LHC. A new theory calculation for fully complete review of the existing multi-boson results has been shown, including the first light-by-light scattering evidence in R&D progress on ultra fast Si detectors and on diamond pixel detectors. Progress on luminosity calorimeter prototype. A been reported. Results from CaloCube prototype for satellite borne calorimetry. Characterization of SiPM for CTA prototypes. b baryons have been presented. Upgrades of the calorimeters of CMS and ATLAS at the LHC, and of the LHCb RICH have summarized. Recent measurements on charm and beauty quark physics, namely in the CP violation sector, radiative decays efforts are undergoing worldwide to search axions and axion-like particles. The theory status in the charm sector have been highlighted. Several challenging experimental were also discussed. Indirect DM searches, like those based on gamma-ray and cosmic-ray, could detect WIMPS when they

GW physics data, studied from different perspectives to extract all possible info about astrophysics, cosmology and gravity,

hierarchy. The LHC experiments presented results on correlations in pp, pA and AA collisions: indications of collectivity in high-
to test their Majorana nature through 0νββ are getting excitingly close to the expected rate for an inverted neutrino mass this summary. Yesterday, the latest results on sterile neutrino searches were reported. The present status and future prospects

Firstly, the beautiful evidence of H → bb at LHC, presented by ATLAS during the Thursday Higgs session, have to be added to rare processes.

improvements both in precision and in the study of larger statistics (or both) will provide significant and top physics measurement. The larger energy, Potential offered by future machines to electroweak

in proton-proton scattering at the LHC. Charm and mechanisms in the production of two J/psi quarkonia

Room Mosaici-1

The big topic of science communication in HEP. Again, the big topic of science communication in HEP. Again,

on SciCom in HEP

The experimental and theory status of the muon g-2 experimental purposes.

Status and upgrade of large scale apparata for different

Upgrades of tracking detectors of LHC experiments.

Room Amici

Precision measurement of positron fraction in Primary

Room Casinò

the e+e- FCC. Gamma factory proposal.

Collider. e+e- Factories. Machine detector interface for

Interview with Michelle Galloway, University of Zürich and XENON experiment

Interview with Myriam Schönenberger, University of Zürich and CMS experiment

Editorial Board:
Fabiola Gianotti, Antonio Masiero, Mirko Pojer

The public event “Universo, tempo zero” will be held in Sala Perla starting at 9 p.m.

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Events

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