# CUP OF PHYSICS

### DAILY NEWSLETTER FROM HEP2017

### Thursday 06 July 2017

### **Today's highlights**



### **Room Martinelli**

EPSHEP2017 PhysicsInVenice

Latest results of APP at LHC. Cosmic ray small-scale anisotropies. The dependence of the helium flux measured in space. Energy dependence of primary and secondary cosmic rays. Latest results from Earth Observatories.



### Room Mosaici-1

WIMP theory review and detection experiments. Results, status and perspective. Search for Low Mass Dark Matter Particles. Review on non WIMP/Axion particle research. Physics beyond the Standard Model in meson deacays.



### **Room Amici**

Recent upgrades of detectors. Short baseline neutrino detectors. The CERN Neutrino Platform. Modernising software and metadata. Data Transfer for High Energy Physics Applications. Big Data platform. Alghoritmic improvements.



HEAVY ION PHYSICS

### **Room Mangano**

Quarkonium production and Charmonium production in nucleus-nucleus collisions at LHC. Upsilon meson production in Au-Au collisions. Low mass dielectron measurements in pp, p-Pb, Pb-Pb collisions at LHC.



FLAVOUR PHYSICS AND FUNDAMENTAL SYMMETRIES

### Room Mosaici-2

Theory overview on Flavour Changing Neutral Current Processes in B decays. Results on FCNC beauty decays. Systematic study of discriminators between New Physics and Standard Model in flavour transitions.



### **Practical information**

\* Catering area, at the third floor of Palazzo del Casinò, will serve lunch every day. Buy your coupon at the cashier counter. Express your daily interest to profit of it by filling in the doodle.

\* Available vacancies for the tour organized for Sunday July 9th can be booked at the info point in the main hall of Palazzo del Casinò, across the registration desk.

\* WARNING: a slight change has been introduced in the scheduled piers for boarding the free waterbus from Venice to the Lido. See here more details.

# Click on the pictures for videos and more multimedia contents.

### People



Interview with Mauro Mezzetto, Chair of the EPS HEP 2017 Conference



Interview with Paolo Checchia, co-Chair of the EPS HEP 2017 Conference



### **Room Perla**

Higgs properties measurements at LHC. Results from Standard Model Higgs decays. Search for non standard, rare or invisible Higgs boson decays. SUperSYmmetry scenarios. Search for SUSY via strong production at LHC.



QCD AND HADRONIC PHYSICS

### Room Welles

New results from LHC experiments. Heavy flavour and Quarkonium production, D-meson and charmed baryon measurements in p-p collisions. Results on the production and decay of B hadrons. Jet production at the LHC.



### Room Casinò

Open problems in neutrino physics and neutrino results. Nuclear astrophysics. Neutrino-nucleus interactions. Overview of knowns and unknowns in the standard three neutrino framework. CP violation and Physics beyond the SM.



#### **Room Volpi**

Most relevant results from the LHC, Tevatron and HERA experiments. Detailed aspects from the W and Z boson cross sections measurements to the global electroweak fits will be described.



### Images from EPS HEP 2017 opening day



### **Editorial Board:**

Francesca Mazzotta, Francesca Scianitti, Antonella Varaschin, **INFN Communication Office**; Renilde Vanden Broeck, **CERN Press Office**; Silvia Biondi, **INFN Sezione di Bologna**.

The EPS HEP 2017 scientific secretaries. The EPS HEP 2017 Local Organizing Commettee.



Istituto Nazionale di Fisica Nucleare

## THE BAR AT THE BEGINNING OF THE UNIVERSE

