

#EPSHEP2017
#PhysicsInVenice

Today's highlights



ASTROPARTICLE PHYSICS

Room Martinelli
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.




DARK MATTER

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 decays.




DETECTOR R&D AND DATA HANDLING

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. Algorithmic 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.




HIGGS AND NEW PHYSICS

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.



NEUTRINO PHYSICS

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.



TOP AND ELECTROWEAK PHYSICS

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.

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

Photo Shots



Images from EPS HEP 2017 opening day

 @epshepp
  @HEPPboardEPS
 <http://eps-hep2017.eu/>

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 Committee.

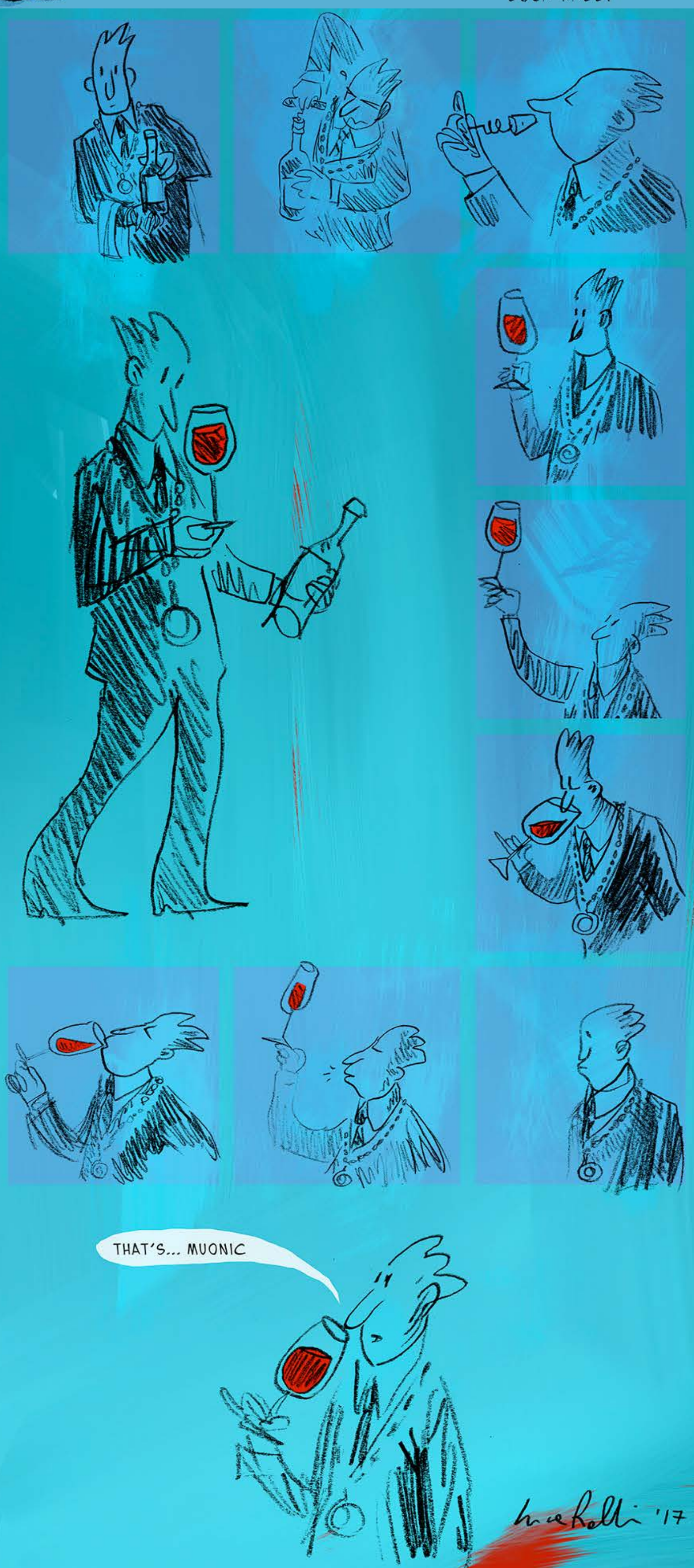


Istituto Nazionale di Fisica Nucleare



THE BAR AT THE BEGINNING OF THE UNIVERSE

LUCA RALLI



THAT'S... MUONIC

luca ralli '17