

Wednesday 29 March

09:00

Presentations: Students

Session | Location: IESC Cargèse

09:00-09:10

Studying the Sensitivity of the Upgrade Phase II LHCb Calorimeter for the rare decay \$B^0 \rightarrow \pi^0 \pi^0\$, where one \$\pi^0\$ decays to the Dalitz \$e^+ e^- \gamma\$ channel

Speaker

Morvan Vincent

09:10-09:20 Measurement of y_{CP} in meson D^0 decay at LHCb

Speaker

Andrea Petrini

09:20-09:30

Optimisation of Decay Selections \$\Lambda_b^0 \to pK^-\$ e \$\Lambda_b^0 \to p\pi^-\$ for \$\mathcal{CP}\$ Asymmetry Measument

Speaker

Marco Caporale

09:30-09:40 V0 production in Run 3 at LHCb

Speaker

Noah Albin Behling

09:40-09:50 Automotive lidars in foggy environment

Speaker

Tom Durand

09:50-10:00

Multivariate analysis to discriminate top quark pair production channels at LHC

Morgan Del Gratta

10:00-10:10

Machine learning techniques for the search for top-top events with the ATLAS experiment at the LHC

Speaker

Virginia Mazza

10:10-10:20

Machine learning techniques for heavy-flavour baryon production measurements at the LHC

Speaker

Marco Cruciani

10:20-10:30

HS3 - A serialization standard for statistical models in high energy physics

Speakers

Carsten Burgard, Cornelius Grunwald, Oliver Schulz, Robin Pelkner

10:30-11:00 Coffee

11:00-11:10

Jet Reconstruction and Global Particle Flow in the ATLAS Experiment for Run 3 of the LHC

Speaker

Anubhav Gupta

11:10-11:20

Measurement of the top-quark pair to \$Z\$-boson production cross-section ratio at a centre-of-mass energy of 13.6 TeV with the ATLAS detector

Speaker

Donna Maria Mattern

11:20-11:30 SNIa forecast with ZTF phase III

Speaker

Andréa Antoniali

11:30-11:40 Entropic gravity

Speaker

Emiliano Pezzini

11:40-11:50

Study of Hubble Constant Anisotropies with the Zwicky Transient Facility

Speaker

Antoine SARASAR

12:30-14:00 Lunch

14:00-14:10 Neutrino mass hierarchy measurement with DUNE

Speaker

Giulia Lupi

14:10-14:20

Search for a neutrinoless conversion of a muon to an electron in muonic atoms with the COMET experiment at J-Parc

Speaker

Thomas Clouvel

14:20-14:30

Lepton masses for a non Universal U(1) model with 2 right-handed massive neutrinos

Speaker

Ricardo Jaimes

14:30-14:40

Influence of a gravitationally induced phase on neutrino oscillation and **Baryogenesis**

Speaker

Sara Krieg

14:40-14:50 Method for nuclear fragment identification in FOOT experiment.

Speaker

Giacomo Santoni

14:50-15:00

Coalescence parameter study and source characterization in the production of (anti)nuclei in high- energy collisions

Lorenzo Valla

15:00