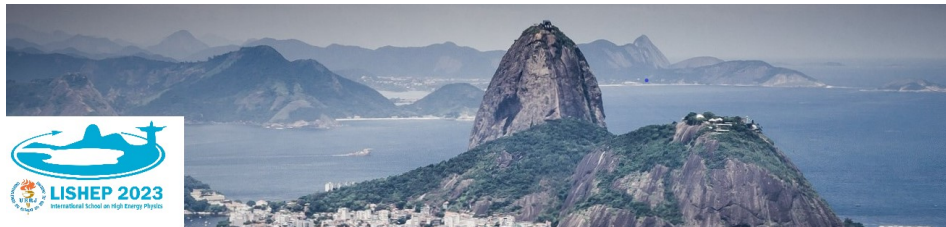


# **LISHEP 2023 Conference Page - Session C**



## **Report of Contributions**

Contribution ID: 1

Type: **not specified**

**STILL OPEN**

Contribution ID: 2

Type: **not specified**

## **Pentaquarks, Multiquark - speaker to be confirmed**

Contribution ID: 3

Type: **not specified**

## **Standard Model -Highlights from CMS - speaker to be confirmed**

Contribution ID: 4

Type: **not specified**

## **Higgs results and Prospects from CMS - speaker to be confirmed**

Contribution ID: 5

Type: **not specified**

## Search for BSM Physics in CMS

Contribution ID: 6

Type: **not specified**

## Heavy Flavor results from CMS

Contribution ID: 7

Type: **not specified**

**- speaker to be defined**



Contribution ID: 8

Type: **not specified**

## Neutrino Physics as Benchmark for Electroweak symmetry breaking

**Presenter:** Dr WD VALLE, Jose (Universidad de Valencia)

Contribution ID: 9

Type: **not specified**

# High Energy Physics in China: Present and Future

*Tuesday 7 March 2023 09:00 (1 hour)*

**Presenter:** Dr WANG, Yifang (Institute of High Energy Physics, CAS)

Contribution ID: **10**

Type: **not specified**

## Highlights from ATLAS

*Tuesday 7 March 2023 10:20 (1 hour)*

**Presenter:** Dr DONADELLI, Marisilvia (ATLAS - CERN)

Contribution ID: 11

Type: **not specified**

## FCC and its Physics potential

*Tuesday 7 March 2023 11:20 (1 hour)*

**Presenter:** Dr BERNARDI, Gregorio

Contribution ID: 12

Type: **not specified**

## Search for BSM Physics in ATLAS

*Tuesday 7 March 2023 17:20 (20 minutes)*

**Presenter:** COELHO LOPES DE SA, Rafael (University of Massachusetts (US))

Contribution ID: 13

Type: **not specified**

## Heavy Flavor results from ATLAS

*Tuesday 7 March 2023 17:00 (20 minutes)*

**Presenter:** Dr CRISTINZIANI, Markus (Universität Siegen)

Contribution ID: 14

Type: **not specified**

## Higgs results and Prospects from ATLAS

*Friday 10 March 2023 15:50 (20 minutes)*

**Presenter:** Dr CHEN, Jiayi (ATLAS)

Contribution ID: 15

Type: **not specified**

## **standard Model and Top results from ATLAS**

*Tuesday 7 March 2023 16:40 (20 minutes)*

**Presenter:** Dr GOTTARDO, Carlos Alberto (ATLAS)



Contribution ID: **16**

Type: **not specified**

## **GLUEBALLS and Search Exotic Searchers at BESIII**

*Thursday 9 March 2023 09:00 (1 hour)*

**Presenter:** Prof. FANG, Shuangshi (Institute of High Energy Physics, CAS)

Contribution ID: 17

Type: **not specified**

## **Future Colliders: Cool Copper Collider and Muon Collider**

*Tuesday 7 March 2023 14:50 (50 minutes)*

**Presenter:** Dr RAO DASU, Sridhara (University of Wisconsin)

Contribution ID: **18**

Type: **not specified**

## Cosmic Rays Physics

*Wednesday 8 March 2023 09:00 (1 hour)*

**Presenter:** DOBRIGKEIT CHINELLATO, Carola (Uncamp)

Contribution ID: **19**

Type: **not specified**

## LHCb Highlights

*Wednesday 8 March 2023 10:20 (1 hour)*

**Presenter:** Dr SOUZA DE PAULA, Bruno (LHCb - CERN)

Contribution ID: 20

Type: **not specified**

## Realizing The Vision: HEP Instrumentation

*Wednesday 8 March 2023 11:20 (1 hour)*

**Presenter:** Dr DEMATEAU, Marcel (Oak Ridge National Laboratory)

Contribution ID: 21

Type: **not specified**

## Fixed Target and Heavy-Ion Results at LHCb

*Wednesday 8 March 2023 16:40 (20 minutes)*

**Presenter:** Dr DI NEZZA, Pasquale (Istituto Nazionale di Física Nucleare)

Contribution ID: 22

Type: **not specified**

## Direct CP-Violation in Charm Decays at LHCb

*Wednesday 8 March 2023 17:00 (20 minutes)*

**Presenter:** Dr SOUZA DE ALMEIDA, Felipe Luan

Contribution ID: 23

Type: **not specified**

## CP Violation in charmless three body B-decays

*Friday 10 March 2023 11:00 (20 minutes)*

**Presenter:** MACHADO, Diego (lhcb)



Contribution ID: 24

Type: **not specified**

## Higgs Results and Prospects from CMS

**Presenter:** Dr DASU, Siridhara (CMS)

Contribution ID: 25

Type: **not specified**

## The Status of Neutrino Physics

*Wednesday 8 March 2023 14:00 (50 minutes)*

**Presenter:** Dr ZUKANOVICH, Renata (USP)

Contribution ID: 26

Type: **not specified**

## VECTOR-LIKE

**Presenter:** Dr CASTELO BRANCO, Gustavo (Universidade de Lisboa)

Contribution ID: 27

Type: **not specified**

# Physics at the High Energy Frontier

*Monday 6 March 2023 09:30 (1 hour)*

**Presenter:** Dr MANGANO, Michelangelo (CERN)

Contribution ID: 28

Type: **not specified**

## **Pentaquarks, Multiquarks - waiting confirmation from speaker**

Contribution ID: 29

Type: **not specified**

## Standard Model PDF's for the Muon Collider

*Monday 6 March 2023 15:40 (20 minutes)*

**Presenter:** Dr TRIFINOPOULOS, Sokratis (MIT)

Contribution ID: 30

Type: **not specified**

## Search for BSM Physics in CMS

*Monday 6 March 2023 16:00 (20 minutes)*

**Presenter:** Dr FRANKENTHAL, Andre (CMS)

Contribution ID: 31

Type: **not specified**

## Highlights of the CMS Electromagnetic Calorimeter

*Monday 6 March 2023 16:20 (20 minutes)*

**Presenter:** Dr REBELLO TELES, Patricia (CBPF)



Contribution ID: 32

Type: **not specified**

## Higgs results and Prospects from CMS

Contribution ID: 33

Type: **not specified**

# Higgs Results from the LHC: A Journey of Discovery

*Monday 6 March 2023 14:00 (50 minutes)*

**Presenter:** Dr NEWMAN, Harvey (CALTECH)

Contribution ID: **34**

Type: **not specified**

## **Searches for Exotic Mesons: Perspective from the GlueX Experiment**

*Tuesday 7 March 2023 14:00 (50 minutes)*

**Presenter:** Dr ZARLING, Jonathan (Jefferson Lab)

Contribution ID: 35

Type: **not specified**

## Highlights from ALICE

*Thursday 9 March 2023 10:20 (1 hour)*

**Presenter:** Dr SCHWEDA, Kai (ALICE)

Contribution ID: 36

Type: **not specified**

## **A New Generation of Worldwide Systems for Data Intensive Sciences: The Global Network Advancement Group**

*Thursday 9 March 2023 11:20 (1 hour)*

**Presenter:** Dr NEWMAN, Harvey (CALTECH)

Contribution ID: 37

Type: **not specified**

## **Pressure Distribution inside nucleons in a Tsalis MIT bag Model**

**Presenter:** Mr MANUEL MARTHIAS, Aljandro (Cinvestav -Mexico)

Contribution ID: 38

Type: **not specified**

# Highlights from Alice

Contribution ID: 39

Type: **not specified**

# Highlights from Alice



Contribution ID: 40

Type: **not specified**

## Highlights from Alice

Contribution ID: 41

Type: **not specified**

## Global Fits to Effective Field Theories

*Thursday 9 March 2023 14:50 (50 minutes)*

**Presenter:** Prof. EBOLI, Oscar (USP)

Contribution ID: 42

Type: **not specified**

## Snowmass and the Future of US HEP

*Thursday 9 March 2023 15:40 (50 minutes)*

**Presenter:** Dr BUTLER, Joel (FNAL - CMS)

Contribution ID: 43

Type: **not specified**

## Frontiers of Heavy Ion Physics

**Presenter:** Dr WYSLOUCH, Boleslaw (M.I.T.)

Contribution ID: 44

Type: **not specified**

## Beyond Standard Model

*Friday 10 March 2023 14:00 (1 hour)*

**Presenter:** Dr HEWETT, JoAnne (SLAC –National Accelerator Laboratory)

Contribution ID: 45

Type: **not specified**

## Global Fits to Effective Field Theories

**Presenter:** Dr EBOLI, Oscar (I.F. USP)

Contribution ID: 46

Type: **not specified**

## Spin Physics with LHCspin

*Friday 10 March 2023 11:20 (50 minutes)*

**Presenter:** Dr DI NEZZA, Pasquale (Istituto Nazionale di Fisica Nucleare)

Contribution ID: 47

Type: **not specified**

## Highlights from CMS

*Monday 6 March 2023 11:50 (1 hour)*

**Presenter:** Dr MALGERI, Luca (CMS)



Contribution ID: 48

Type: **not specified**

## Physics case for a $e^+e^-$ Factory and Beyond

*Monday 6 March 2023 10:50 (1 hour)*

**Presenter:** Dr GROJEAN, Christophe (DESY)

Contribution ID: 49

Type: **not specified**

## Quantum fields and the cosmological constant: de Sitter - anti de Sitter and all that

*Monday 6 March 2023 14:50 (50 minutes)*

**Presenter:** Dr MOSCHELLA, Ugo (Italian Institute)

Contribution ID: 50

Type: **not specified**

## Multiquark exotics

*Friday 10 March 2023 10:00 (1 hour)*

**Presenter:** Dr SKWARNICKI, Tomasz (Syracuse University)

Contribution ID: 51

Type: **not specified**

## **Precision and Discovery - The Physics Potential of Linear Colliders**

*Friday 10 March 2023 15:00 (50 minutes)*

**Presenter:** Dr ROMAN, Roman (CNRS/IN2P3/IJCLab)

Contribution ID: 52

Type: **not specified**

## Closing Session

*Friday 10 March 2023 16:10 (30 minutes)*

Contribution ID: 53

Type: **not specified**

## **Emissions of Fluorinated Gaseous from CMS in RUN3 and Perspectives for RUN4 and Beyond**

*Thursday 9 March 2023 14:00 (50 minutes)*

**Presenter:** Dr PUGLIESE, Gabriella (INFN - Bari - Italy)

Contribution ID: 54

Type: **not specified**

# The Fermilab High Energy Physics Program: Present and Future

*Thursday 9 March 2023 16:30 (50 minutes)*

**Presenter:** MERMINGA, Lia

Contribution ID: 55

Type: **not specified**

## Quasi normal modes and universal relations in hybrid stars

**Presenter:** Dr KUMAR, Deepak (Theoretical Physics Division, Physical Research Laboratory,)



Contribution ID: 56

Type: **not specified**

## **ALL Posters sessions will be during the coffee Break**

*Sunday 5 March 2023 08:00 (20 minutes)*

Contribution ID: 57

Type: **not specified**

## The $B \rightarrow K J/\psi \omega$ decay and the $X(3930)$ , $X(3960)$ states

*Sunday 5 March 2023 08:20 (20 minutes)*

**Presenter:** ET AL., Luciano Abreu

Contribution ID: 58

Type: **not specified**

## **iRPC –innovative CMS RPC project for HL-LHC data taking.**

**Presenter:** Dr BUONTEMPO, Salvatore (CMS)

Contribution ID: 59

Type: **not specified**

## The $Z_{\{cs\}}$ (3985) abundance in a hadronic medium

*Sunday 5 March 2023 08:40 (20 minutes)*

**Presenter:** Prof. VIEIRA, Hildeson (UFBA)

Contribution ID: **60**

Type: **not specified**

## Experimental Neutrino Physics

**Presenter:** Dr SEGRETO, Ettore (UNICAMP)

Contribution ID: **61**

Type: **not specified**

## **The AI take on Nuclear Physics: A transformer model for the properties of nuclides**

*Sunday 5 March 2023 09:00 (20 minutes)*

**Presenter:** Dr TRIFINOPOULOS, SOKRATIS (MIT)

Contribution ID: 62

Type: **not specified**

## **Analysis of X-ray spectral series in stellar binary pairs and their mathematical modeling**

*Sunday 5 March 2023 09:20 (20 minutes)*

**Presenter:** Prof. SILVA DE LIMA, Melina (UFBA)

Contribution ID: 63

Type: **not specified**

## Interactions of the $Y(4274)$ state with light mesons

*Sunday 5 March 2023 09:40 (20 minutes)*

**Presenter:** Dr MOURA BRITO, André Luiz (UFBA)



Contribution ID: 64

Type: **not specified**

## Study of the interactions of exotic state $Z_c(3900)$ in a hadronic medium

*Sunday 5 March 2023 10:00 (20 minutes)*

Using effective Lagrangians, we study the interactions of the state  $Z_c(3900)$  with light mesons. We determine the cross sections for the processes  $Z_c\pi \rightarrow \bar{D}^{(*)}D^{(*)}$  and as well as the inverse processes. To understand the influence of the medium on the results, we determined the thermal average of the cross-sections.

**Presenter:** Prof. OLIVEIRA MAGALHÃES, Rodrigo (UFBA)

Contribution ID: 65

Type: **not specified**

## **Results on New Physics with the CMS Precision Proton Spectrometer**

*Monday 6 March 2023 16:40 (20 minutes)*

**Presenter:** Dr GIL DA SILVEIRA, Gustavo (UFRGS/UERJ)

Contribution ID: 66

Type: **not specified**

## Neutrino production NSI & T2K-NOvA tension

*Sunday 5 March 2023 10:20 (20 minutes)*

We propose a non-standard interaction (NSI) in neutrino production to alleviate the tension between the results of the experiments NOvA (NuMI Off-axis  $\nu_e$  Appearance) and T2K (Tokai to Kamioka). The NSI is computed through quantum field theory (QFT) formalism and we get perturbative analytic formulas for oscillation probabilities.

**Presenter:** Ms RODRIGUES, Fernanda (UNICAMP)

Contribution ID: 67

Type: **not specified**

## Study of Contaminations in Ds->pipiK background.

In DsPPK selection process we find structure in background, the Challenge is identify and eliminate this structure before start the analysis. We investigate this contamination comes from D0 charm decay, and for testing this hypothesis we will use simulations with RapidSim for testing and confirm our hypothesis.

**Presenter:** Mr SANTORO DE OLIVEIRA, LEONARDO (CBPF)

Contribution ID: **68**

Type: **not specified**

## **Pressure Distribution inside nucleons in Tsallis MIT Bag Model**

*Wednesday 8 March 2023 15:40 (40 minutes)*

**Presenter:** Dr HERRERA, Gerardo (ALICE)

Contribution ID: **69**

Type: **not specified**

## **CMS Heavy Flavor**

*Tuesday 7 March 2023 15:40 (40 minutes)*

**Presenter:** Dr LEONARDO, Nuno (LIP)

Contribution ID: 70

Type: **not specified**

## Highlights of SM and TOP results from CMS

*Tuesday 7 March 2023 17:40 (20 minutes)*

**Presenter:** Dr KUMAR MAL, Prolay (CMS)

Contribution ID: 71

Type: **not specified**

## **THE POSTER SESSION WILL BE DURING THE COFFEE BREAK EACH DAY FROM 6 TO 10 MARCH**

*Sunday 5 March 2023 07:00 (15 minutes)*



Contribution ID: 72

Type: **not specified**

## Neutrino Physics Benchmarks for Colliders

*Friday 10 March 2023 09:00 (40 minutes)*

**Presenter:** VALLE, Jose W F (IFIC-SPAIN)

Contribution ID: 73

Type: **not specified**

## OPEN SESSION

*Monday 6 March 2023 09:00 (30 minutes)*

**Presenter:** SANTORO, Alberto (Universidade do Estado do Rio de Janeiro (BR))

Contribution ID: 74

Type: **not specified**

## cpv in ds->ppk decay

*Sunday 5 March 2023 10:40 (20 minutes)*

In this study, we investigate CP violation in  $D_s \rightarrow \pi^- \pi^+ K^+$  channel using simulations of the Dalitz plot and a technique called Mirandizing. We demonstrate the effectiveness of this approach by visualizing the shape of the CP violation in the Dalitz plot. By analyzing the local population differences, we are able to identify regions where CP symmetry is broken. Our results provide new insights into the underlying physics of CP violation and have important implications for experimental studies in particle physics.

**Presenter:** SANTORO DE OLIVEIRA, Leonardo (CBPF)

Contribution ID: 75

Type: **not specified**

## **Roundtable discussion: “Topics to be covered at the next LISHEP conference”**

*Thursday 9 March 2023 12:20 (50 minutes)*

Participants: Alberto Santoro, Luiz Mundim e Sandro Fonseca