

# New Trends in High-Energy Physics

Sunday, 2 October 2016 - Saturday, 8 October 2016

Budva, Becici, "Splendid Hotel"



## Book of Abstracts



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## **Dark Matter particles in the galactic halo**

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**<font color="#1E90FF">PARALLEL SESSION</font> / 13**

## **ICARUS experiment - status and perspectives**

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**<font color="#1E90FF">PARALLEL SESSION</font> / 14**

## **The increase of the light collection from scintillation strip with hole for WLS fiber using various types of fillers.**

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**<font color="#1E90FF">PARALLEL SESSION</font> / 16**

## **Direct search of keV sterile neutrino in tritium beta decay by "Troitsk nu-mass" experiment**

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**<font color="#1E90FF">PARALLEL SESSION</font> / 22**

## **High Technology Application to Modernization of International Electron-Positron Linear Collider (ILC)**

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**<font color="#1E90FF">PARALLEL SESSION</font> / 26**

## **Twenty Years of the Analytic Perturbation Theory in QCD**

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## **Search for new exotic phenomena with the ATLAS detector at the LHC**

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## **Review of Higgs Results from the CMS experiment**

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**<font color="#1E90FF">PARALLEL SESSION</font> / 36**

## **Diffraction dissociation of relativistic nuclei in nuclear track emulsion**

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## **PEN and Nab: new precision tests of lepton and quark-lepton universality**

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## **Recent applications of the technique of nuclear track emulsion**

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## **Particle tracking in the PEN experiment.**

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## **A Very Intense Neutrino Super Beam Experiment for Leptonic CP Violation Discovery based on the European Spallation Source Linac**

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## **Heavy quark distributions in nucleon: collider tests**

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**<font color="#ff4d00">MAIN SESSION</font> / 43**

## **Particles evolution in the early Universe**

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**<font color="#1E90FF">PARALLEL SESSION</font> / 44**

## **Manifestation of the unstable nuclei in relativistic dissociation of the 10B and 11C nuclei**

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## **Breakdown of QCD factorization in hard hadronic diffraction**

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## **Heavy flavors in nucleus-nucleus and proton-nucleus collisions**

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**PARALLEL SESSION** / 47

## **Quantum simulations with cold atoms: from solid state to high energy physics and cosmology**

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**MAIN SESSION** / 48

## **Neutrino in the Standard Model and beyond**

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**MAIN SESSION** / 49

## **Elementary Particles, dark matter candidate and new extended standard model**

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## **A new measurement of the anomalous magnetic moment of muon at Fermilab**

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**MAIN SESSION** / 52

## **Rare decays of heavy mesons in covariant confined quark model.**

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**<font color="#1E90FF">PARALLEL SESSION</font> / 53**

## **Proton charge radius and its consistency with the experiments**

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**<font color="#ff4d00">MAIN SESSION</font> / 54**

## **Reduction of total precise error of muon $g - 2$ anomaly and QED $\alpha(M_Z^2)$ by Unitary&Analytic model description of pseudoscalar meson nonet EM structure**

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**<font color="#1E90FF">PARALLEL SESSION</font> / 56**

## **New type straws: properties and quality**

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## Prediction of $\Lambda$ -hyperon magnetic FF and ratio $|G_E^\Lambda/G_M^\Lambda|$ in time-like region

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## Numerical values of $f^F$ , $f^D$ , $f^S$ coupling constants in SU(3) invariant interaction Lagrangian of vector-meson nonet with $1/2^+$ octet baryons.

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## Two-particle Bose–Einstein correlations in pp collisions at 0.9 and 7 TeV measured with the ATLAS detector

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## The CLIC physics potential

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**<font color="#ff4d00">MAIN SESSION</font> / 62**

## **Heavy quark physics and XYZ states in covariant quark model**

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**<font color="#1E90FF">PARALLEL SESSION</font> / 63**

## **Searches for lepton number violation and resonances in the $K^{+-} \rightarrow \pi \mu \mu$ decays at the NA48/2 experiment**

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**<font color="#ff4d00">MAIN SESSION</font> / 64**

## **PHENIX results on leading particles and jets measured in Cu+Au collisions at RHIC**

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**<font color="#1E90FF">PARALLEL SESSION</font> / 65**

## **HERA Results on Proton Structure and Hard QCD**

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## Seaches for new physics at TeV scale in dilepton final states at ATLAS experiment

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## New phase space calculations for $\beta+$ and EC decay modes

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## Review of Higgs Results from the ATLAS experiment

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## Search for $K^+$ to $\pi^+$ $\nu \nu$ at NA62

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## Text of article: New type straws: properties and quality

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## The recent results from Super-K

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## Solar-blind photodetectors with AlGaN photocathodes for light registration in UVC range

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## The Mu2e experiment at Fermilab

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<font color="#1E90FF">PARALLEL SESSION</font> / 77

## Elastic and inelastic diffraction at the LHC

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**<font color="#ff4d00">MAIN SESSION</font> / 78**

## **Polarized Drell-Yan measurement at COMPASS**

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**<font color="#ff4d00">MAIN SESSION</font> / 79**

## **How to differentiate function based on integration operation**

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**<font color="#1E90FF">PARALLEL SESSION</font> / 80**

## **Using the cathode surface of straw tube for measuring the track coordinate along the wire and increasing rate capability.**

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**<font color="#ff4d00">MAIN SESSION</font> / 81**

## **DANSS Reactor Antineutrino Project:: Status and Proof of Principle**

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**<font color="#1E90FF">PARALLEL SESSION</font> / 82**

## Neutral pion form factor measurement by the NA62 experiment

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## Status of the NICA project

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## Overview of Recent Results From the T2K Experiment

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## Physics Results from NOvA Neutrino Oscillation Experiment

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## In search of $\mu \rightarrow e\gamma$ : Final result of the MEG experiment

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**PARALLEL SESSION** / 87

## Quantum Field Theory Methods in Classical Physics

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## Recent results from PHENIX experiment at RHIC

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## Shear, turbulence and its observable consequences in heavy ion reactions

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## Longitudinal vector form factor in the pion $\beta$ decay

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## First detections of a gravitational wave signals

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## **Axions as Dark Matter**

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**<font color="#1E90FF">PARALLEL SESSION</font> / 93**

## **Neutrinoless Double-Beta Decay with Emission of Single Electron**

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## **Diffraction at HERA**

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## **Search for supersymmetry: the present status**

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## **ALICE results in pp, pA and AA collisions at the LHC**

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## The Gravitational Wave Observatory and Its First Discoveries

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## Latest Results from the Daya Bay Reactor Neutrino Experiment

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## Left-left squark mixing in the $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ decay

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## Bose-Einstein Correlation and Colour Reconnection in Particle Physics

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## Search for New Physics with CMS

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## **Deep Underground Neutrino Experiment: Status and Prospects**

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## **High energy behaviour of maximally supersymmetric gauge theories**

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## **Opening Talk**

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## **He3-He4 Dilution Refrigerators, Results, Traditions, 50 Years Anniversary**

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