

# New Trends in High-Energy Physics

Sunday 02 October 2016 - Saturday 08 October 2016

Budva, Becici, "Splendid Hotel"



## Book of Abstracts



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

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

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## **Axions as Dark Matter**

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

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

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

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

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

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## Diffraction at HERA

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## Diffractional dissociation of relativistic nuclei in nuclear track emulsion

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

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## Elastic and inelastic diffraction at the LHC

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

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## **First detections of a gravitational wave signals**

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

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

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

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

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

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

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## High energy behaviour of maximally supersymmetric gauge theories

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## How to differentiate function based on integration operation

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## ICARUS experiment - status and perspectives

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

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

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## Manifestation of the unstable nuclei in relativistic dissociation of the $^{10}\text{B}$ and $^{11}\text{C}$ nuclei

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## Neutral pion form factor measurement by the NA62 experiment

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

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

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

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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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## **Opening Talk**

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## **Opening talk**

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## **Overview of Recent Results From the T2K Experiment**

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

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

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

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

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## Physics Results from NOvA Neutrino Oscillation Experiment

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## Polarized Drell-Yan measurement at COMPASS

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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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## Proton charge radius and its consistency with the experiments

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## Quantum Field Theory Methods in Classical Physics

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

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## Recent applications of the technique of nuclear track emulsion

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## Recent results from PHENIX experiment at RHIC

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## 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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## Review of Higgs Results from the ATLAS experiment

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## Review of Higgs Results from the CMS experiment

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

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

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## **Search for New Physics with CMS**

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

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

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## **Searches for lepton number violation and resonances in the $K^+ \rightarrow \pi^0 \mu^+ \mu^-$ decays at the NA48/2 experiment**

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

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

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## **Status of the NICA project**

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

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## **The CLIC physics potential**

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## **The Gravitational Wave Observatory and Its First Discoveries**

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## **The Mu2e experiment at Fermilab**

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

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## **The recent results from Super-K**

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

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

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