

中国物理学会高能物理分会第十届全国会员代表大会暨学术年会

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磁单极存在的天文观测证据和它在天体物理学中的重大作用：⊗磁单极驱爆超新星和宇宙热大爆炸的物理机制

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Presentation Type:

T4. Neutrino, Astrophysics and Cosmology

Parallel Session IV: Neutrino, Astroparticle Physics and Cosmology / 14

Higgs inflation and cosmological electroweak phase transition with N scalars in the post-Higgs era

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Presentation Type:

T4. Neutrino, Astrophysics and Cosmology

Parallel Session IV: Neutrino, Astroparticle Physics and Cosmology / 20

Search for new physics with accelerator neutrino experiments

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Presentation Type:

T4. Neutrino, Astrophysics and Cosmology

Parallel Session IV: Neutrino, Astroparticle Physics and Cosmology / 26

The origin of extra positrons in cosmic rays

作者: Xiao-Jun Bi¹

¹ IHEP

Presentation Type:

T4. Neutrino, Astrophysics and Cosmology

Parallel Session IV: Neutrino, Astroparticle Physics and Cosmology / 38

Measurement of muonic and electromagnetic components using LHAASO-KM2A prototype array

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Presentation Type:

T4. Neutrino, Astrophysics and Cosmology

Parallel Session IV: Neutrino, Astroparticle Physics and Cosmology / 45

Neutrinoless Double-Beta Decay with Topmetal Enabled Gain-less TPC

作者: 向明孙¹

合作者: Nu Xu²; 元梅³

¹ 华中师范大学

² CCNU

³ LBNL

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Presentation Type:

T4. Neutrino, Astrophysics and Cosmology

Parallel Session IV: Neutrino, Astroparticle Physics and Cosmology / 51

Interpretations of the DAMPE electron data

作者: Lei Feng¹

¹ purple mountain observatory

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Presentation Type:

T4. Neutrino, Astrophysics and Cosmology

Parallel Session IV: Neutrino, Astroparticle Physics and Cosmology / 53

Emergent Dark Matter and the Evolution of Late Universe

作者: Yun-Long Zhang¹

¹ Asia-Pacific Center for Theoretical Physics, Pohang

相应作者: zhangyunlong001@gmail.com

Presentation Type:

T4. Neutrino, Astrophysics and Cosmology

Parallel Session IV: Neutrino, Astroparticle Physics and Cosmology / 65

Spin-dependent WIMP-nucleon cross section and effective field theory coupling limits from PandaX-II experiment

作者: Jingkai Xia¹

合作者: Ning Zhou¹

¹ SJTU

Presentation Type:

T4. Neutrino, Astrophysics and Cosmology

Parallel Session IV: Neutrino, Astroparticle Physics and Cosmology / 68

Overview of PandaX-4T dark matter experiment and the R&D of the 4-ton scale TPC.

作者: Ning Zhou¹

¹ Shanghai Jiao Tong University

相应作者: nzhou@sjtu.edu.cn

Presentation Type:

T4. Neutrino, Astrophysics and Cosmology

A new way of Analytic approximation for four flavor neutrino oscillation with matter effect

作者: Baobao Yue¹; Jiajie Ling²

合作者: Fanrong Xu³; Wei Li³

¹ SYSU in China

² 中山大学

³ JNU in China

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We provide a series of expansion formulas for 3+1 scheme neutrino oscillation probabilities in matter with a constant density.

We use a new approach named the Jacobi-like method, which can diagonalize a complex Hermitian Hamiltonian matrix to handle matter effects for four-flavor neutrino oscillation with high precision. This work can be applied to current or proposed accelerator neutrino experiments such as DUNE, NO ν A, T2HK, T2HKK when neutrino mass $m_4 \gg m_k (k = 1, 2, 3)$.

We present the performance of the new method on different oscillation channels with similar mixing matrix form to the vacuum case. Furthermore, neutrino oscillation probability functions we studied are greatly simplified with three levels of accuracy.

We argue that the effective mixing caused by matter effects between active neutrinos and sterile neutrinos changes more slightly than that among ν_e , ν_μ and ν_τ when $m_4 \gg m_k (k = 1, 2, 3)$.

Presentation Type:

T4. Neutrino, Astrophysics and Cosmology

Summary:

Our analytical approximation formulas have high accuracy with a good simplicity. This result can be applied in lots of experiments such as T2HK, T2HKK, NU ν A and DUNE. We find that the effective θ_{12} and δ_{12} can be affected firstly by matter effects and the effective θ_{13} and δ_{13} are the second ones. It is remarkable that the effective mixing between active neutrinos and sterile neutrinos changes more slightly than active mixing when $m_4 \gg m_k (k = 1, 2, 3)$.

Parallel Session IV: Neutrino, Astroparticle Physics and Cosmology / 93

Searching for Heavy Neutrinos at CEPC

作者: Xiaohong Wu¹

合作者: Wei Liao¹

¹ East China University of Science and Technology

相应作者: xhwu@ecust.edu.cn

Presentation Type:

T4. Neutrino, Astrophysics and Cosmology

Parallel Session IV: Neutrino, Astroparticle Physics and Cosmology / 95

超级神冈的大气中微子中性流反应与超新星遗迹中微子寻找

作者: Linyan WAN¹

¹ Tsinghua University

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Presentation Type:

T4. Neutrino, Astrophysics and Cosmology

Parallel Session IV: Neutrino, Astroparticle Physics and Cosmology / 108

Dark matter search with a light mediator at PandaX-II experiment

作者: Yong Yang¹

¹ Shanghai Jiao Tong University

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Presentation Type:

T4. Neutrino, Astrophysics and Cosmology

Parallel Session IV: Neutrino, Astroparticle Physics and Cosmology / 111

An Optical Design of the Telescope in the Wide Field of View Cherenkov/Fluorescence Telescope Array

作者: Jiali Liu¹

¹ Kunming University

相应作者: liujiali2017@126.com

Presentation Type:

T4. Neutrino, Astrophysics and Cosmology

Parallel Session IV: Neutrino, Astroparticle Physics and Cosmology / 121

Two-zone diffusion of electrons and positrons from Geminga explains the positron anomaly

作者: Kun Fang¹

合作者: Peng-fei Yin ²; Qiang Yuan ³; Xiaojun Bi ⁴

¹ IHEP, CAS

² IHEP

³ Purple Mountain Observatory

⁴ IHEP, CAS

相应作者: fangkun@ihep.ac.cn

Presentation Type:

T4. Neutrino, Astrophysics and Cosmology

Parallel Session IV: Neutrino, Astroparticle Physics and Cosmology / 122

Gamma-ray Burst Jet Breaks Revisited and GRB Observing Plan

作者: Xiang-Gao Wang¹

合作者: Bing Zhang ²; En-Wei Liang ¹; Li-ping Xin ³

¹ Guangxi University

² Department of Physics and Astronomy, University of Nevada Las Vegas

³ National Astronomical Observatories, Chinese Academy of Sciences

相应作者: wangxg@gxu.edu.cn

Presentation Type:

T4. Neutrino, Astrophysics and Cosmology

Parallel Session IV: Neutrino, Astroparticle Physics and Cosmology / 125

The spatial dependent propagation of Galactic Cosmic Rays

作者: Yiqing Guo¹

¹ IHEP

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Presentation Type:

T4. Neutrino, Astrophysics and Cosmology

Parallel Session IV: Neutrino, Astroparticle Physics and Cosmology / 127

progress of HERD project

作者: Ming XU¹

¹ Institute of High Energy Physics

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Presentation Type:

T4. Neutrino, Astrophysics and Cosmology

133

The energy response model of the Daya Bay electron antineutrino detectors

作者: Yongbo Huang¹

¹ Institute of High Energy Physics, CAS

The Daya Bay experiment has provided the most precise measurement of the $\sin^2 2_{13}$ and $|\Delta m_{ee}^2|$ via a relative comparison of reactor antineutrino rates and energy spectra detected at scintillator detectors placed at different baselines. A precise measurement of the absolute neutrino flux and spectrum was also performed. Both analyses require a precise modeling of the detector energy response to describe the relationship between the true energy of the incident particles and the reconstructed energy. The nonlinear response in the Daya Bay detectors comes from two main factors. The scintillator response is non-linear primarily due to quenching of charged particles and contribution from Cerenkov radiation. Additional energy non-linearity arises from the interaction of the scintillation light time profile and the charge collection of the readout electronics. This talk presents the energy response modeling using various calibration sources as well as a dedicated measurement of the electronics non-linearity.

Presentation Type:

T4. Neutrino, Astrophysics and Cosmology

Parallel Session IV: Neutrino, Astroparticle Physics and Cosmology / 140

Sterile neutrinos as a possible explanation for the upward air shower events at ANITA

作者: Huang Guo-yuan¹

¹ Institute of High Energy Physics, Chinese Academy of Sciences

相应作者: huanggy@ihep.ac.cn

Presentation Type:

T4. Neutrino, Astrophysics and Cosmology

Parallel Session IV: Neutrino, Astroparticle Physics and Cosmology / 141

The Dark Matter Particle Explorer and Its First Results

作者: Guangshun Huang¹

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Presentation Type:

T4. Neutrino, Astrophysics and Cosmology

Parallel Session IV: Neutrino, Astroparticle Physics and Cosmology / 143

Analysis of Neutron Background in PandaX-II Experiment

作者: QiuHong Wang¹

合作者: Andi Tan²; Jianglai Liu³; Yugang Ma⁴

¹ Shanghai Institute of Applied Physics, CAS

² Department of Physics, University of Maryland

³ INPAC and School of Physics and Astronomy, Shanghai Jiao Tong University, Shanghai Laboratory for Particle Physics and Cosmology; Tsung-Dao Lee Institute

⁴ Shanghai Institute of Applied Physics, Chinese Academy of Sciences

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Presentation Type:

T4. Neutrino, Astrophysics and Cosmology

Parallel Session IV: Neutrino, Astroparticle Physics and Cosmology / 145

Low Energy Calibration of PandaX-II

作者: Binbin Yan¹

¹ Shandong University

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Presentation Type:

T4. Neutrino, Astrophysics and Cosmology

Parallel Session IV: Neutrino, Astroparticle Physics and Cosmology / 151

Following the density perturbations through a bounce with AdS/CFT Correspondence

作者: Lei Ming¹; edna cheung²

合作者: Taifan Zheng³

¹ Nanjing University

² nanjing university

³ Nanjing University

Presentation Type:

T4. Neutrino, Astrophysics and Cosmology

Parallel Session IV: Neutrino, Astroparticle Physics and Cosmology / 153

Searching for Dark Photon Dark Matter with Gravitational Wave Detectors

作者: Yue Zhao¹

¹ TDLI & SJTU

相应作者: zhaoyue.hep@gmail.com

Presentation Type:

T4. Neutrino, Astrophysics and Cosmology

Parallel Session IV: Neutrino, Astroparticle Physics and Cosmology / 157

LHAASO 实验端窗型 PMT 性能分析

作者: 存峰冯¹; 洪魁昌²; 艳红于¹

¹ 山东大学

² IHEP

相应作者: 1084562894@qq.com

Presentation Type:

T4. Neutrino, Astrophysics and Cosmology

Parallel Session IV: Neutrino, Astroparticle Physics and Cosmology / 159

EAS 热中子探测技术及探测阵列 Prisma-16 介绍

作者: 树旺崔¹

合作者: Xinhua MA²; 茂元刘³

¹ 河北师范大学

² Institute of High Energy Physics, CAS

³ 西藏大学

相应作者: cuiw@hebtu.edu.cn

Presentation Type:

T4. Neutrino, Astrophysics and Cosmology

160

Studying the Cosmic Ray Antiproton with the Support Vector Machine

作者: LIN Sujie¹

合作者: Peng-fei Yin ²; Xiaojun Bi ²

¹ 高能所

² IHEP

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We use the Support Vector Machine to quickly reproduce the cosmic ray propagation results, and adopt such results to systematically study the DM contribution on cosmic ray antiproton.

Presentation Type:

T4. Neutrino, Astrophysics and Cosmology

Parallel Session IV: Neutrino, Astroparticle Physics and Cosmology / 172

LHAASO 实验中大尺寸光敏探头特性研究

作者: Cheng Li¹; Kun Jiang¹; Zebo Tang¹

¹ University of Science and Technology of China

Presentation Type:

T4. Neutrino, Astrophysics and Cosmology

Parallel Session IV: Neutrino, Astroparticle Physics and Cosmology / 177

The study and application of efficiency calibration method for the water Cherenkov detector array

作者: 会财李¹

合作者: WANG Xiaojie ¹; Zhiguo Yao ²; bo gao ³; 明君陈 ¹

¹ 高能所

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Presentation Type:

T4. Neutrino, Astrophysics and Cosmology

178

LHAASO-WCDA++ 电荷标定系统的研究

作者: zongkang zeng¹

合作者: bo gao ¹; cheng liu ¹; shicong hu ¹

¹ ihep

相应作者: zengzk@ihep.ac.cn

LHAASO-WCDA 动态范围扩展系统 (WCDA++) 采用的小尺寸光电倍增管工作在 2×10^5 增益下, 由于其低增益的特点, 我们设计了一套基于 LED 光源组和光纤束构成的电荷标定系统。为满足标定需求, 我们在实验室研制了一套利用 LED 驱动板点亮不同型号的 LED、多分支导光光纤 ($\pm 10\%$) 混光、41 分支光纤 ($\pm 8\%$) 分光以实现单光子、多光子 (50pe~500pe) 和大光强 (2000pe~10000pe) 这三种光源集一身的标定系统; 通过研究高压响应曲线、高增益下的单光电子谱和不同脉宽下的 A/D 比, 实现了对探测器工作增益的快速标定。这套标定系统和方法将运用于 LHAASO-WCDA 四分之一水池当中, 对 900 个小尺寸光电倍增管进行工作增益标定和监测。

Presentation Type:

T4. Neutrino, Astrophysics and Cosmology

Parallel Session IV: Neutrino, Astroparticle Physics and Cosmology / 180

Latest result of $\sin^2(2\theta_{13})$ via neutron capture on Hydrogen at Daya Bay

作者: Li Chao¹

¹ Shandong University

Presentation Type:

T4. Neutrino, Astrophysics and Cosmology

Parallel Session IV: Neutrino, Astroparticle Physics and Cosmology / 181

LHAASO-WCDA 基于簇射事例的时间标定方法

作者: JinYan Liu¹

¹ IHEP

相应作者: jyliu@ihep.ac.cn

Presentation Type:

T4. Neutrino, Astrophysics and Cosmology

183

锦屏中微子实验探测器结构的模拟研究

作者: Wentai Luo¹

¹ University of Chinese Academy of Sciences

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锦屏地下中微子实验未来将建造千吨级的中微子探测器。我们使用基于 Geant4 的模拟软件 Jinping Simulation Analysis Package 对探测器进行模拟以及对千吨探测器结构进行优化。探测器中每种材料都可能存在铀、钍、钾或氡的放射性同位素，这将会成为我们的本底。在大量的模拟中，我们得知某些含有高放射性元素的器件是本底的主要来源，并且发现每半米水层将会使放射性本底小一个量级。因此千吨探测器的初步结构如下，其中心为半径大约 10 米的装满慢液闪的球型液罐，液闪外部由亚克力壳或者气球包裹。光电倍增管位于距中心 12 ~ 14 米的位置，并由钢材料支架支撑。整个探测器的最外层由钢桶包裹，钢桶内壁到液闪球之间用纯水填充。我们参考了 SNO 以及 Borexino 两个实验的不同材料的放射性元素含量，对千吨探测器自身的放射性本底进行了估算，其本底数目与太阳中微子信号数目可比。

Presentation Type:

T4. Neutrino, Astrophysics and Cosmology

Parallel Session IV: Neutrino, Astroparticle Physics and Cosmology / 184

锦屏中微子 1 吨原型机实验研究

作者: Jinjing Li¹

¹ T

Presentation Type:

T4. Neutrino, Astrophysics and Cosmology

Parallel Session IV: Neutrino, Astroparticle Physics and Cosmology / 188

基于 ARGO-YBJ 实验对宇宙线大尺度各向异性的研究

作者: 羽佳梁¹

合作者: 羽佳梁¹

¹ 河北师范大学

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Presentation Type:

T1. TeV and BSM Physics

Parallel Session IV: Neutrino, Astroparticle Physics and Cosmology / 192

Axion like particles and the CMB asymmetry

作者: Qiaoli Yang¹

¹ Jinan Univ.

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Presentation Type:

T4. Neutrino, Astrophysics and Cosmology

Parallel Session IV: Neutrino, Astroparticle Physics and Cosmology / 193

Latest nGd oscillation results from Daya Bay

作者: Wenjie Wu¹

¹ Institute of High Energy Physics, Chinese Academy of Sciences

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Presentation Type:

T4. Neutrino, Astrophysics and Cosmology

Parallel Session IV: Neutrino, Astroparticle Physics and Cosmology / 196

Using Z<=2 data to constrain cosmic ray propagation models

作者: Juan Wu¹

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Presentation Type:

T4. Neutrino, Astrophysics and Cosmology

Parallel Session IV: Neutrino, Astroparticle Physics and Cosmology / 206

Latest Results from the Alpha Magnet Spectrometer experiment on the International Space Stations

作者: Zuhao Li¹

¹ *IHEP*

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Presentation Type:

T4. Neutrino, Astrophysics and Cosmology

Parallel Session IV: Neutrino, Astroparticle Physics and Cosmology / 211

Searching for Sterile Neutrino Dark Matter with X-ray lines

作者: Kenny Chun Yu Ng¹

¹ *Weizmann Institute of Science*

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Presentation Type:

T4. Neutrino, Astrophysics and Cosmology

Parallel Session IV: Neutrino, Astroparticle Physics and Cosmology / 212

Cosmological Collider Phenomenology: the Standard Model and Beyond

作者: Xingang Chen¹; Yi Wang²; Zhongzhi Xianyu³

¹ *Institute for Theory and Computation, Harvard-Smithsonian Center for Astrophysics*

² *Department of Physics, The Hong Kong University of Science and Technology*

³ *Harvard University*

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Presentation Type:

T4. Neutrino, Astrophysics and Cosmology

224

The gluon condensation at high energy hadron collisions

作者: Jianhong Ruan¹; jiangshan lan²; wei zhu¹

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The corrections of gluon fusion to the BFKL equation are discussed and it results in a new evolution equation. Using the available saturation models as input, we find that the new evolution equation has the chaos solution with positive Lyapunov exponents in the perturbative range, the distribution show a sharp peak at the critical momentum. We find that this gluon condensation effect is caused by a new kind of shadowing-antishadowing effects, and it leads to a series of unexpected effects in high energy hadron collisions including astrophysical events.

Presentation Type:

T4. Neutrino, Astrophysics and Cosmology

225

Dark QCD Cosmology: Naturalness, Dark Matter and Axion

作者: Jiang-Hao Yu¹

¹ ITP, CAS

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Presentation Type:

T4. Neutrino, Astrophysics and Cosmology

Parallel Session IV: Neutrino, Astroparticle Physics and Cosmology / 240

A preliminary reconstruction of the carbon in cosmic rays with DAMPE Experiment

作者: Libo Wu¹

合作者: Yifeng Wei²; Zhiyong Zhang³; 云龙张¹

¹ University of Science and Technology of China

² USTC

³ The department of modern physics of USTC(University of Science and Technology of China)

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Presentation Type:

T4. Neutrino, Astrophysics and Cosmology

244

時間依賴的太陽調 \square 模型

作者: bing bing Wang¹; peng fei Yin²; xiao jun Bi²

¹ IHEP

² ihep

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低能宇宙 \square 在進入太陽系時會受到太陽活動的影響，其流 \square 大小和能譜形狀都會發生改變，這樣的現象被稱 \square 太陽調 \square 。因 \square 受太陽調 \square 的影響，我們難以精確地了解原來的宇宙 \square 能譜，對我們更好地理解宇宙 \square 在銀河系中的傳播和確認暗物質信號等都造成了困難。我們的時間依賴的調 \square 模型，可以很好解釋 BESS 和 PAMELA 的長期觀測，提供新的 LIS 能譜。

Presentation Type:

T4. Neutrino, Astrophysics and Cosmology

晨光杯论文报告 / 250

Amplitude analysis of the decays $\eta'\rightarrow\pi^+\pi^-\pi^0$ and $3\pi^0$

晨光杯论文报告 / 251

Study of $e^+e^- \rightarrow \omega \chi c J$ at CME from 4.21 to 4.42 GeV

相应作者: chunhuali@ihep.ac.cn

晨光杯论文报告 / 252

利用 ATLAS 探测器寻找标准模型 Higgs 玻色子到双缪子的衰变以及 TeV 下的新物理现象

相应作者: yanlin@cern.ch

晨光杯论文报告 / 253

CP Asymmetries in Charm Decays into Neutral Kaons

相应作者: wangdix@mail.ustc.edu.cn

晨光杯论文报告 / 254

Direct detection of a break in the teraelectronvolt cosmic-ray spectrum of electrons and positrons

晨光杯论文报告 / 255

Dark Matter Results from First 98.7 Days of Data from the PandaX-II Experiment

晨光杯论文报告 / 256

Single electron counting using a dual MCP assembly

相应作者： yangyz@ihep.ac.cn

晨光杯论文报告 / 257

Lepton identification at particle flow oriented detector for the future e+e- Higgs factories

相应作者： dan.yu@llr.in2p3.fr

晨光杯论文报告 / 258

Observation of hc Radiative Decay hc->gamma eta' and Evidence for hc->gamma eta

相应作者： zhangjielei@ihep.ac.cn

晨光杯论文报告 / 259

Revisiting the one leptoquark solution to the R(D^{*}) anomalies and its phenomenological implications

Parallel Session III: Heavy Ion Physics / 261

Overview of recent ALICE results

相应作者： zbyin@mail.ccnu.edu.cn

Parallel Session III: Heavy Ion Physics / 262

Nonlinear response to initial anisotropy in high-energy heavy-ion collisions

Parallel Session III: Heavy Ion Physics / 263

Predictions for Xe+Xe collisions at 5.44TeV by CLVisc hydrodynamic simulation

相应作者: dingchi2014@mails.ccnu.edu.cn

Parallel Session III: Heavy Ion Physics / 264

Applications of deep learning in relativistic hydrodynamics

相应作者: hfhuang@pku.edu.cn

Parallel Session III: Heavy Ion Physics / 265

Probing the thermal state of the fireball at freezeout via isothermal compressibility and specific heat capacity

相应作者: maitreyee.mukherjee@cern.ch

Parallel Session III: Heavy Ion Physics / 266

Universal scaling of strange particle p_T spectra in pp collisions

Parallel Session III: Heavy Ion Physics / 267

inner TPC and forward tracking upgrade at RHIC-STAR

相应作者: xuqh@sdu.edu.cn

Parallel Session III: Heavy Ion Physics / 268

Underlying-event Activity Studies at $\sqrt{s_{\text{NN}}} = 200 \text{ GeV}$ by STAR

相应作者: li.yi@sdu.edu.cn

Parallel Session III: Heavy Ion Physics / 269

Mesons and QCD phase diagram under magnetic field/rotation

相应作者: wangxinyang@ihep.ac.cn

Parallel Session III: Heavy Ion Physics / 270

Universal scaling of dynamical critical fluctuation based on Langevin dynamics near QCD critical point

相应作者: shanjinwu2014@pku.edu.cn

Parallel Session III: Heavy Ion Physics / 271

Explore the QCD phase transition phenomena from a multiphase transport model

相应作者: jinxiaohai@sinap.ac.cn

Parallel Session III: Heavy Ion Physics / 272

Finite Size Effects on Chiral Phase Transition

相应作者: xukun@ihep.ac.cn

Parallel Session III: Heavy Ion Physics / 273

Probing jet splitting and energy loss in relativistic heavy-ion collisions

相应作者: changnb@mail.ccnu.edu.cn

Parallel Session III: Heavy Ion Physics / 274

Jet substructure in heavy-ion collisions

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Parallel Session III: Heavy Ion Physics / 275

Measurements of open bottom hadron production via displaced J/Ψ , D^0 and electrons in Au+Au collisions at $\sqrt{s_{NN}} = 200$ GeV at STAR

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Parallel Session III: Heavy Ion Physics / 276

Topological cut optimization for Lc reconstruction using the supervised learning algorithm in TMVA at STAR

相应作者: fuchuan@mails.ccnu.edu.cn

Parallel Session II: Hadron and Flavor Physics / 277

Exotic hadron searches at LHCb

Parallel Session III: Heavy Ion Physics / 278

Production of strange particles in jets and the underlying event in pp collisions at $\sqrt{s} = 13$ TeV with ALICE at the LHC

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Parallel Session III: Heavy Ion Physics / 279

Medium-induced gluon emission with transverse and longitudinal scattering in dense nuclear matter

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Parallel Session III: Heavy Ion Physics / 280

Averaged jet charge as a probe of quark gluon plasma in heavy-ion collisions

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Parallel Session III: Heavy Ion Physics / 281

QCD phase structure from lattice QCD

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Parallel Session III: Heavy Ion Physics / 282

Collective flow in Pb + Pb and proton + proton collisions

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Parallel Session III: Heavy Ion Physics / 283

ongitudinal fluctuations of anisotropic flows and flow correlations

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Parallel Session II: Hadron and Flavor Physics / 284

XYZ states at BESIII

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Parallel Session III: Heavy Ion Physics / 285

Pion transverse-momentum spectrum and elliptic anisotropy of partially coherent source in relativistic heavy-ion collisions

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Parallel Session II: Hadron and Flavor Physics / 286

Charmonium(-like) states at BELLE

相应作者： liyb@pku.edu.cn

Parallel Session III: Heavy Ion Physics / 287

Inclusion of the up-to-date parton distribution function and nuclear shadowing in the AMPT model

相应作者: chaoz@mails.ccnu.edu.cn

Parallel Session II: Hadron and Flavor Physics / 288**Light hadron spectroscopy at BESIII**

相应作者: gongli@ihep.ac.cn

Parallel Session III: Heavy Ion Physics / 289**Extraction of the Jet Transport Parameter with the Productions of Six Identified Meson in Heavy Ion Collisions**

相应作者: weidai@cug.edu.cn

Parallel Session II: Hadron and Flavor Physics / 290**Experimental study of phi(2170)****Parallel Session III: Heavy Ion Physics / 291** **γ -jet fragmentation function & jet-induced medium response**

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Weak Decays of doubly charmed Baryons

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Parallel Session II: Hadron and Flavor Physics / 320**Charmed meson nonleptonic decays at BESIII**

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Decay Properties of Molecular States

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Charged lepton flavor violation search at Mu2e

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Charged lepton flavor violation search at COMET

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Strong Decays of the Orbitally Excited Scalar D_0^* Mesons

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Weak Decays of Triply Heavy Baryons

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Hadronic decay properties of charmed baryons

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Fast simulation of the CEPC detector with Delphes

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Extract inclusive pi0 cross section from DVCS 11GeV p(e⁻, e⁺ γ) experiment in JLab

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Observation of the associated production of the Higgs boson and a top quark pair with the CMS detector

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Minimal Neutral Naturalness

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Implications of BSM CP violation: EDM tests and the collider phenomenology

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Probe Higgs-gluon coupling via jet energy profile at e+e- colliders

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Soft Gluon Resummation in Higgs Boson Plus Two Jet Production at the LHC

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Recent results of quarkonium and heavy flavour meson production at ATLAS

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Study of heavy baryons in the diquark picture-success and difficulty

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Measurement of WZ boson pair-production with the ATLAS detector

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soft gluon resummation and parton shower

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Current and Future Collider Searches for Electroweak Dark Matter Models

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To capture X(16.7) at BESIII

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Majorana neutrino signals at Belle-II and ILC

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Charged Lepton Flavor Violation on target at GeV scale electron/positron beam experiment

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Exploring triplet-quadruplet fermionic dark matter at the LHC and future colliders

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Strong First Order EWPT and Strong Gravitational Waves in Z_3 -symmetric Singlet Scalar Extension

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Search for New Heavy Bosons in single top quark final state using 36.1 /fb data with the ATLAS detector

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Neutrinoless double-beta decay physics and our opportunity at CJPL

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宇宙线能谱和各向异性的联合模型研究

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Evidence of the Higgs- $\rightarrow bb$ decay with the ATLAS detector

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高能物理分会工作报告 (Report from Chinese HEP Division)

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高能环形正负电子对撞机 (High Energy Circular Electron Positron Collider)

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CGEM 探测器离线软件研究

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Study on particle recognition and energy reconstruction of SD-HCAL

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新型 EAS 热中子探测器的模拟

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EMuS at CSNS

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Parallel Session V: Particle Detector Technology / 478

TCAD Simulation based on a 0.18 μ m technology for a Beam Telescope

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STAR 前向事例平面探测器的研制和运行

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LHAASO 上 ED 的批量测试

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Parallel Session V: Particle Detector Technology / 481

LHAASO-WFCTA SiPM 成像探头性能研究

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Performance of DAMPE BGO Calorimeter in Ion Beam Test

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R&D of CEPC HCAL

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Status of CEPC-ECAL R&D

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CEPC beam energy measurement

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Recent status and prospects of CJPL

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暗物质实验中液氩闪烁体探测技术研究

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Parallel Session V: Particle Detector Technology / 488

The R&D, Mass Production of the 20 inch MCP-PMT for neutrino detector

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Central detector technologies at JUNO

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Topmetal 传感器系列芯片及其在物理实验上的应用

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Parallel Session V: Particle Detector Technology / 491

First test of a natural CdMoO₄ scintillating bolometer for neutrinoless double beta decay searches

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Search for neutrinoless double beta decay with Mo-based scintillating bolometric detector

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LHAASO WCDA 电子学研制进展

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应用于 LHAASO WCDA 的放大成形 ASIC 和逐次比较型 ADC ASIC 介绍

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Design of a digitized system for PandaX pulse signal

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Recent progress on cryogenic front-end electronics for CDEX

Parallel Session V: Particle Detector Technology / 497

ATLAS Phase-I upgrade NSW Front-End Electronics

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Parallel Session V: Particle Detector Technology / 498

CEPC 高颗粒度量能器读出电子学研究进展

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Parallel Session V: Particle Detector Technology / 499

Study of the 222Rn removal and the 222Rn detector for JUNO

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Parallel Session V: Particle Detector Technology / 500

Bulk and Surface event Discrimination (BSD) method and the identification of Extremely-Fast Events (EFE) in PPCGe

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Parallel Session V: Particle Detector Technology / 501

High pressure Xe gas TPC with Microbulk Micromegas to search for neutrinoless double beta decay

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Pinpoint absolute Z position on muon tracks in PandaX-III prototype TPC

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PandaX-4T 暗物质探测器容器设计与制造

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Cryogenics and distillation system of PandaX-4T

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Electronics and data acquisition system of PandaX-4T experiment

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PMT Test for PandaX-4T Experiment

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The Event Building and DAQ Management for PandaX-xT

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Design of cryogenic distillation system for Krypton and Radon removal in PandaX-4T dark matter experiment

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Hamamatsu Photonics 公司产品推介

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The sensitivity analysis for the PandaX-III experiment

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CDEX 高纯锗暗物质实验中的宇宙本底模拟研究

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Search for a heavy dark photon at future e+e- colliders

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Background of PandaX-4T detector

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Electrode for PandaX-4T

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Property Research on PandaX-III TPC Prototype

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A fast and accurate method for small p_T resummation

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基于加速器高能物理战略讨论会 I / 519

CEPC 项目进展报告

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基于加速器高能物理战略讨论会 I / 520

Z 工厂项目进展报告

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HIEPA 项目进展报告

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第九届委员和常委会议

相应作者： zhaozg@ustc.edu.cn

高能物理分会换届会议 / 525

第十届委员和常委（新一届委员和常委）投票选举第十届高能物理 分会主任和副主任

相应作者： wangq@mail.tsinghua.edu.cn

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