

Saturday, 13 April 2019

Venue: Beijing Conference Hall, OFFCN HY Hotel, No. 8 Yuanhua Road, Qixia District,  
Nanjing University Science Park (Enter Through East Gate), Nanjing City

**08:30-08:50 Opening Remarks (all the directors)**

**Chair: Prof. CAO Zhen, IHEP**

**08:50-09:50 Cosmic Ray Observation & GRB Multi-messenger**

**Chair: Prof. CAO Zhen, IHEP**

08:50 DAMPE 30'

Speaker: Prof. CHANG Jin, PMO(Purple Mountain Observatory,CAS)

09:20 GRB 30'

Speaker: Prof. DAI Zigao, Nanjing University

**09:50 - 10:40 Progress of LHAASO Project**

**Chair: Prof. HE Huihai, IHEP**

09:50 Progress of LHAASO-KM2A ED 20'+5'

Speaker: Prof. SHENG Xiangdong, IHEP

10:15 Progress of LHAASO- KM2A MD 20'+5'

Speaker: Dr. XIAO Gang, IHEP

**10:40 - 11:10 Photo & Coffee Break**

**11:10 - 12:00**

**Chair: Prof. WANG Xiangyu, Nanjing University**

11:10 Progress of LHAASO-WCDA 20'+5'

Speaker: Dr. CHEN Mingjun, IHEP

11:35 Progress of LHAASO-WFCTA 20'+5'

Speaker: Dr. ZHANG Shoushan, IHEP

**12:00 - 14:00 Lunch& Rest**

**14:00 - 16:05 Progress of National key research and development projects about LHAASO**

**Chair:Prof. HU Hongbo, IHEP**

14:00 Data Processing Softwares 20'+5'

Speaker: Dr. CHEN Songzhan, IHEP

14:25 Physics Analysis 20'+5'

Speaker: Dr, ZHANG Yi, IHEP

14:50 Phenomenological Research of Cosmic Rays 20'+5'

Speaker: Prof. LIU Siming, PMO

15:15 Gamma-ray Astronomy 20'+5'

Speaker: Prof. ZHANG Li, Yunnan University

**15:40 - 16:10 Coffee Break**

**16:10 - 17:50 AGN & Microquasars, Dark Matter**

**Chair: Prof. CHEN Yang, Nanjing University**

16:10 High Energy Radiations of GeV - TeV AGN Jets: from the Core to large scale regions  
20'+5'

Speaker: Prof. LIANG En'wei, Guangxi University

16:35 The Comparison between Fermi-detected and non-Fermi detected superluminal Sources  
20'+5'

Speaker: Prof. FAN Junhui, Guangzhou University

17:00 High-energy Emission From The Jets in The Microquasar SS 433 20'+5'

Speaker: Prof. WANG Zhongxiang, SHAO(Shanghai Astronomical Observatory, CAS)

17:25 Dark Matter Search at LHAASO 20'+5'

Speaker: Prof. BI Xiaojun, IHEP

17:50 When SNRs Collide With Molecular Clouds, the GeV-TeV Observation and the Hadronic Modeling 20'+5'

Speaker: Dr. CUI Yudong, Sun Yat-sen University

**18:30-19:30 Dinner**

**19:30 - 21:30 Collaboration Discussion Within Representatives From Domestic LHAASO Teams**

Venue: 3-302 Meeting Room of PMO, No. 8 Yuanhua Road, Qixia District

Sunday, 14 April 2019

**08:30-12:00 Parallel Sessions:**

**Experiment**

Venue: 3-302 Meeting Room of PMO, No. 8 Yuanhua Road, Qixia District

**1) KM2A (Square Kilometre Array)-ED (Electromagnetic Detectors)**

**Chair: Prof. SHENG Xiangdong, IHEP**

08:30 ED Plastic Scintillator and Fiber Batch Quality Control

Speaker: Dr. HOU Chao, IHEP

08:50 Quality Inspection of Batch Plastic Scintillator Units

Speaker: WANG Yaping, IHEP

09:10 ED Assembly Progress

Speaker: Dr. ZHAO Jing, IHEP

09:30 1.5 Inch PMT(Photomultiplier Tube) Measurement Progress

Speaker: YU Yanhong, Shangdong University

09:50 LHAASO-ED Measurement

Speaker: LI Wenlong, Shangdong University

10:10 LHAASO-KM2A Power System Progress

Speaker: Prof. ZHANG Shaoru, Hebei Normal University

## **10:30-10:40 Coffee Break**

### **2) KM2A-MD (Muon Detectors)**

**Chair: Dr. ZHANG Yi, IHEP**

10:40 Recent Results and Plan of the Ultra-pure Water Liner System

Speaker: Dr. WANG Lingyu, IHEP

11:00 Optical Parameters Measurement for LHAASO-MD

Speaker: Dr. LI Cong, IHEP

11:20 LHAASO-KM2A MD Onsite Measurement system

Speaker: ZHAO Shiping, IHEP

11:40 MD Electronics Box Design

Speaker: DIAO Peiqi, IHEP

### **Analysis**

**Venue: Room 212, Astronomy Bulding of Nanjing University, No. 8 Yuanhua Road, Qixia District**

### **1) WCDA Data Analysis and Simulation**

**Chair: Dr. TAN Baixuan, Sun Yat-sen University**

08:30 Data and MC Comparison in WCDA Test Running Status

Speaker: Dr. ZHA Min, IHEP

08:50 WCDA PMT Test and AD Ratio Monitor

Speaker: CHEN Baomin, IHEP

09:10 WCDA offline time calibration

Speaker: Dr. LIU Jinyan, IHEP

09:30 WCDA simulation of moon shadow

Speaker: WANG Yanjin, Northeastern University & IHEP

09:50 WCDA Gamma/Proton separation

Speaker: WANG Xiaojie, IHEP

## **10:10-10:30 Coffee Break**

### **2) WCDA Data Analysis and Simulation**

**Chair: Prof. WANG Zhongxiang, SHAO**

10:30 New Method of Low Energy Angular Reconstruction on LHAASO WCDA Experiment

Speaker: YAO Yuhua, Sichuan University & IHEP

10:50 WCDA++ Data Analysis and Event Match With Different Detector Arrays

Speaker: LI Xiurong, IHEP

11:10 Probing the Knee of Cosmic Ray with WCDA Test Data

Speaker: Guo Yingying, IHEP

11:30 Monitoring Single PMT Rate and Three Peaks Structure of LHAASO-WCDA

Speaker: QIAO Bingqiang, PMO & IHEP

## **12:00 - 13:30 Lunch**

## **13:30 - 17:00 Parallel Sessions: Optional Excursion**

### **Experiment**

Venue: 3-302 Meeting Room of PMO, No. 8 Yuanhua Road, Qixia District

#### **3) WCDA (Water Cherenkov Detectors Array)**

**Chair: Dr. CHENG Mingjun, IHEP**

13:30 Installation and Operation of No.1 Pool of WCDA

Speaker: Dr. LI Huicai, IHEP

13:50 Status of WCDA++

Speaker: Dr. LIU Cheng, IHEP

14:10 LHAASO\_WCDA Electronics Development Progress

Speaker: Prof. ZHAO Lei, University of Science and Technology of China

14:30 Progress of LHAASO-WCDA++ electronics

Speaker: CHEN Jian, Sichuan University

14:50 8/3 Inch PMT(Photomultiplier Tube) Batch Test

Speaker: Dr. JIANG Kun, University of Science and Technology of China

15:10 Progress and Plan of 20 Inch MCP-PMT Waterproof Packaging

Speaker: Dr. YOU Xiaohao, IHEP

#### **15:30-15:40 Coffee Break**

#### **4) WFCTA (Wide Field of View Cherenkov Telescope Array)**

**Chair: Dr. ZHANG Shoushan, IHEP**

15:40 The Performance Analysis for SiPM Imaging Detector on LHAASO-WFCTA

Speaker: Dr. YANG Mingjie, IHEP

16:00 WFCTA Online Data Acquisition Based on FPGA

Speaker: Prof. ZENG Guoqiang, Chengdu University of Technology

16:20 The Calibration System of WFCTA-CLB Board

Speaker: GUO Cheng, Sichuan University

#### **5) ENDA (EN Detector Array)**

**Chair: Prof. MA Xinhua, IHEP**

16:40 LHAASO-ENDA Development Progress

Speaker: LI Bingbing, Hebei Normal University

17:00 LHAASO-ENDA\_FADC Progress

Speaker: DONG Chunhui, Sichuan University

17:20 The Run Progress of LHAASO-ENDA-16 Yabajing Observatory

Speaker: Dr. LIU Maoyuan, Tibet University

### **Analysis**

Venue: Room 212, Astronomy Building of Nanjing University, No. 8 Yuanhua Road, Qixia District

#### **3) KM2A Data Analysis and Simulation**

**Chair: Prof. CUI Shuwang, Hebei Normal University**

13:30 The Moon-Sun shadow analysis and comparison of measurement and simulation with running KM2A array

Speaker: Dr. LI Zhe, IHEP

13:50 200ED+50MD Array Performance Study

Speaker: Dr. WANG Lingyu, IHEP

14:10 Classifying the Cosmic-Ray Components on the LHAASO-KM2A Experiment with the Graph Neural Network

Speaker: JIN Chao, IHEP

14:30 Study on the efficiency of the underground muon detectors in YangBaJing Hybrid Array

Speaker: FENG Youliang, IHEP

**14:50-15:10 Coffee Break**

#### **4) KM2A Data Analysis and Simulation**

**Chair: Prof. CHEN Tianlu, Tibet University**

15:10 To Detect Supernova with LHAASO

Speaker: Dr. LIU Dong, Shangdong University

15:30 Observation for large scale anisotropy of cosmic rays with partial array of LHAASO

Speaker: Dr. GAO Wei, Shangdong University

15:50 Observation of the PeV Cosmic ray anisotropy

Speaker: ZHAO Shiping, IHEP

16:10 The Composition Identification of Primary Cosmic Rays in the Knee Region

Speaker: Dr. WANG Yudong, Sichuan University

**18:30 - 20:00 Banquet**

**Venue: Xiongmang Hall, 3<sup>rd</sup> Floor, Nanjing University International Convention Center,  
No. 163 Xianlin Road, Qixia District**

Monday, 15 April 2019

#### **08:30 - 12:00 Parallel Sessions**

##### **Experiment**

**Venue: 3-302 Meeting Room of PMO, No. 8 Yuanhua Road, Qixia District**

##### **1) Clock Management, Data acquisition and processing, General Technique**

**Chair: Prof. HE Huihai, IHEP**

08:30 Progress and Plan of LHAASO Clock Synchronization System

Speaker: Dr. GONG Guanghua, Tsinghua University

08:50 Software Trigger in LHAASO Data Acquisition System

Speaker: Dr. GU Minhao, IHEP

09:10 Status\_of\_LHAASO\_Computing\_Platform

Speaker: Dr. ZHENG Wei, IHEP

09:30 Software\_and\_Data\_Storage\_in\_LHAASO

Speaker: Dr. BI Yujiang, IHEP

09:50 Water and Electric System Progress of LHAASO Project

Speaker: Dr. WANG Bodong, IHEP

**10:10-10:20 Coffee Break**

## **2) Calibration and Monitoring**

**Chair: Dr. CHEN Songzhan, IHEP**

10:20 WFCTA Calibration and Atmosphere Monitoring

Speaker: Dr. ZHU Fengrong, Southwest Jiaotong University

10:40 Calibration and Monitoring of the LHAASO-KM2A Electromagnetic Particle Detectors

Speaker: Dr. LV Hongkui, IHEP

11:00 Progress and Plan of LHAASO-MD Calibration and Photoelectric Transform

Speaker: Dr. ZUO Xiong, IHEP

11:20 Calibration System and 20in PMT of WCDA

Speaker: Dr. GAO Bo, IHEP

11:40 The Charge Calibration of LHAASO WCDA++

Speaker: ZENG Zongkang, IHEP

## **Analysis**

**Venue: Room 212, Astronomy Building of Nanjing University, No. 8 Yuanhua Road, Qixia District**

### **1) Software Platform**

**Chair: Prof. HUANG Xingtao, Shandong University**

08:30 Preparation of Data Analysis in Shandong University

Speaker: Prof. ZHU Chengguang, Shandong University

08:50 Progress of LodeStar and Its application

Speaker: HUANG Wenhao, Shandong University

09:10 Study on Astronomical Data and Analysis Software

Speaker: Dr. ZHANG Jianli, NAOC

**09:30-09:50 Coffee Break**

### **2) WFCTA, Solar Physics & Thunderstorm**

**Chair: Prof. JIA Huanyu, Southwest Jiaotong University**

09:50 Update Simulation Study of Scaler for LHAASO Project

Speaker: Prof. ZHOU Xunxiu, Southwest Jiaotong University

10:10 The influence of Electric Field in Thunderstorm on Electron-position and Photon Intensity in LHAASO Observing Field

Speaker: Dr. HUANG Daihui, Southwest Jiaotong University

10:30 GLE Time Structure and Energy Spectrum

Speaker: ZHANG Yunfeng, Southwest Jiaotong University

10:50 Geometry and Optics Calibration of LHAASO-WFCTA by Bright Stars

Speaker: Dr. MA Lingling, IHEP

11:10 Aerosol in WFCTA Observing Region

Speaker: Dr. CHEN Qihui, Southwest Jiaotong University

**12:00-13:30 Lunch**

## **13:30 - 16:50 Cosmic Ray Anisotropy & Extended Sources**

**Venue: OFFCN HY Hotel, No. 8 Yuanhua Road, Qixia District**

### **1) Cosmic Ray Anisotropy**

**Chair: Prof. WU Xuefeng, PMO**

13:30 Study on the Structure of Cosmic Ray Energy Spectra and Anisotropy

Speaker: Prof. YUAN Qiang, PMO

13:50 Preliminary Results of Cosmic Ray 3D Anisotropic Diffusion

Speaker: Dr. LIU Wei , IHEP

14:10 Algorithm of Cosmic Ray 3D Anisotropic Diffusion

Speaker: Dr. LIN Sujie, IHEP

14:30 Monte-Carlo simulation of the Cascades in Magnetic Fields and Photon Fields: Analytical Spectral Energy Distribution Formula

Speaker: Dr. WANG Jieshuang, Shanghai Jiaotong University

14:50 Particle\_Physics\_at\_CHEP

Speaker: Dr. Mohsin SAEED, University of the Punjab

**15:10 - 15:30 Coffee Break**

## **2) Extended Sources & Neutrino**

**Chair: Prof. LI Zhuo, Peiking University**

15:30 Multiwavelength\_Study\_on\_Geminga's\_TeV\_halo

Speaker: Dr. LIU Ruoyu, Deutsches Elektronen-Synchrotron

15:50 Study the Turbulence in Supernova Remnant With Pulsar Scintillation

Speaker: ZHU Hui, NAOC(National Astronomical Observatories, CAS)

16:10 Transient High-energy Gamma-Rays and Neutrinos From Nearby Type II Supernovae

Speaker: Dr. WANG Kai, Peiking University

## **16:30-18:00 Discussion**

**Venue: Beijing Conference Hall, OFFCN HY Hotel, No. 8 Yuanhua Road, Qixia District**

**Chair: Prof. CAO Zhen, IHEP**

**18:30-20:00 Dinner**