



## 中国物理学会高能物理分会第十三届全国粒子物理学术会议 (2021)

Monday, 16 August 2021

Parallel Session IV: Neutrino, Astroparticle Physics and Cosmology (14:00 - 16:05)

-Conveners: Min Min Zha; Liangjian Wen; Zhe Wang; Zong-Kuan GUO

time	[id] title	presenter
14:00	[288] The high light result from LHAASO-KM2A	Dr CHEN, SongZhan
14:15	[289] Data analysis and key science results of LHAASO-WCDA	胡, 世聪
14:30	[287] Measurement of cosmic ray mean mass around the knee region by muon content in air showers with LHAASO-KM2A	ZHANG, Hengying
14:45	[290] The study of the longitude development of muons in air shower	WANG, Liping
15:00	[285] Observation of Horizontal Air Showers with LHAASO-KM2A	Dr GOU, Quanbu
15:15	[41] 大型超高能伽马源立体跟踪观测设备 (LACT) 计划介绍	Dr ZHANG, Shoushan
15:30	[154] Comparison of the particle acceleration between pileup shock and converging shock	Mr WANG, Xin
15:45	[200] 双区扩散模型下脉冲星对宇宙线正电子超出的解释	Dr 方, 堃

Parallel Session IV: Neutrino, Astroparticle Physics and Cosmology (16:10 - 18:15)

-Conveners: Min Min Zha; Liangjian Wen; Zhe Wang; Zong-Kuan GUO

time	[id] title	presenter
16:10	[173] AMS宇宙线正电子流强谱测量结果	Mr 李, 祖豪
16:30	[174] AMS宇宙线反质子流强谱测量结果及原初宇宙线带电基本粒子的流强谱性质	Dr 唐, 志成
16:45	[177] AMS宇宙线氦镁硅原子核流强谱测量结果	Dr 张, 诚
17:00	[178] AMS宇宙线氟原子核流强谱结果	扈嘉钰
17:15	[33] 基于AMS实验测量初级宇宙线铁原子核能谱	Dr 王, 兆民
17:30	[32] 阿尔法磁谱仪宇宙线同位素探测进展	陈, 尧
17:45	[198] AMS宇宙线正负电子流强谱随时间变化测量	Dr SUN, Zetong
18:00	[196] 阿尔法磁谱仪中硅微条探测器的位置刻度以及径迹重建算法	Mr 渠, 朝义

## Tuesday, 17 August 2021

Parallel Session IV: Neutrino, Astroparticle Physics and Cosmology (08:30 - 10:30)

-Conveners: Min Min Zha; Liangjian Wen; Zhe Wang; Zong-Kuan GUO

time	[id] title	presenter
08:30	[29] 宇宙线电子的起源	许, 伟伟
08:45	[30] AMS实验每天电子流强的测量与周期性特征分析	Dr SU, Tong
09:00	[11] FIMP Dark Matter from Leptogenesis in Fast Expanding Universe	Dr HAN, Zhi-Long
09:15	[99] Dark Matter Indirect Search in the CMB	GAO, Yu
09:30	[82] New approaches to explore dark matter	HUANG, Fa Peng
09:45	[169] Exploring axion dark matter through radio signals from magnetic white dwarf stars	Dr YIN, Peng-Fei
10:00	[176] Dark Matter Freeze-out via Catalyzed Annihilation	Mr 邢(XING), 传阳(Chuan-Yang)

Parallel Session IV: Neutrino, Astroparticle Physics and Cosmology (10:40 - 12:00)

-Conveners: Min Min Zha; Liangjian Wen; Zhe Wang; Zong-Kuan GUO

time	[id] title	presenter
10:40	[12] Fast Gravitational Wave Burst from Axion Clumps	Dr ZHANG, Yun-Long
11:00	[22] 电弱格点模拟相变引力波与原初磁场	Dr BIAN (边), Ligong (立功)
11:20	[73] Lorentz Violation of Cosmic Photons from Phenomenological and Theoretical Viewpoints	Prof. MA, Bo-Qiang
11:40	[125] Positivity bounds, UV states and SMEFT	Prof. ZHOU, Shuang-Yong

Parallel Session IV: Neutrino, Astroparticle Physics and Cosmology (14:00 - 15:30)

-Conveners: Min Min Zha; Liangjian Wen; Zhe Wang; Zong-Kuan GUO

time	[id] title	presenter
14:00	[122] Explicit Perturbations to the Stabilizer $S_{\tau} = \{\mathrm{rm} i\}$ of Modular $S^{\prime}_5$ Symmetry and Leptonic CP Violation	Mr WANG, Xin
14:15	[123] Inverse Seesaw Model with a Modular $S_4$ Symmetry: Lepton Flavor Mixing and Warm Dark Matter	Dr 张, 忻悻
14:30	[76] 中微子跷跷板模型的简化结构	赵, 振华
14:45	[137] The scattering of Majorana fermion by torsion field	Prof. XUE, Xun
15:00	[91] Breaking Peccei-Quinn Symmetry at Low Scales	Dr GU, Peihong
15:15	[118] Radiative neutrino masses, lepton flavor mixing and $\mu \rightarrow e \gamma$ in a leptiquark model	Mr DI, Zhang

Parallel Session IV: Neutrino, Astroparticle Physics and Cosmology (15:40 - 17:30)

-Conveners: Min Min Zha; Liangjian Wen; Zhe Wang; Zong-Kuan GUO

time	[id] title	presenter
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15:40	[155] Flavor Invariants and CP Violation in the Leptonic Sector with Majorana Neutrinos	郁槟榕
15:55	[9] Feasibility of detecting 8B solar neutrinos at JUNO	ZHAO JIE, Jie
16:10	[90] $1 \rightarrow 2$ Processes of a Sterile Neutrino Around Electroweak Scale in the Thermal Plasma	TANG, Yi-Lei
16:25	[152] Measurement of Cosmogenic Background at China Jinping Underground Laboratory	Mr ZHAO, Lin
16:40	[215] Reconstruction with Water-based scintillator	LUO, Wentai
16:55	[171] Reconstruction of Particle Trace in Liquid Scintillator Detector	王, 宇逸

## Wednesday, 18 August 2021

Parallel Session IV: Neutrino, Astroparticle Physics and Cosmology (08:30 - 10:35)

-Conveners: Min Min Zha; Liangjian Wen; Zhe Wang; Zong-Kuan GUO

time	[id]	title	presenter
08:30	[167]	Direct neutrino mass measurements with KATRIN experiment	XU, Weiran
08:45	[218]	CDEX暗物质实验现状与展望	Dr 杨, 丽桃
09:00	[21]	Results of dark matter search using the full PandaX-II exposure	王, 秋红
09:15	[168]	CDEX-300 $\nu$ 实验计划	MA, Hao
09:30	[214]	利用PandaX-II全部数据限制自相互作用暗物质	YANG, Jijun
09:45	[233]	CDEX实验中基于Migdal效应的百兆电子伏特轻暗物质探测	Mr 刘, 仲智
10:00	[211]	Search for sub-GeV dark matter boosted by the cosmic rays using the full PandaX-II exposure data	崔, 祥仪
10:15	[161]	基于气体时间投影室寻找无中微子双贝塔衰变的本底信号鉴别的研究	李, 涛

Parallel Session IV: Neutrino, Astroparticle Physics and Cosmology (10:40 - 11:55)

-Conveners: Min Min Zha; Liangjian Wen; Zhe Wang; Zong-Kuan GUO

time	[id]	title	presenter
10:40	[184]	PandaX实验寻找 $^{136}\text{Xe}$ 双贝塔衰变(NL)DBD-ES	LUO, Lingyin
10:55	[159]	基于CDEX-10实验的暗光子动能混合参数限制	余, 泽
11:10	[207]	Search for Light Dark Matter—Electron Scattering in the PandaX-II Experiment	Mr CHENG, Chen
11:25	[170]	Search for dark matter in effective field theory model and cosmic ray boosted model with full PandaX-II exposure data	Ms NING, Xuyang
11:40	[234]	Constraints on neutrino electromagnetic properties from COHERENT elastic neutrino-nucleus scattering	ZHANG YIYU