The 2nd International Symposium on Cosmology and Ali CMB Polarization Telescope

Saturday, 7 September 2019 - Monday, 9 September 2019 北京师范大学

Scientific Programme

Day-1: 7th Sept

Registration

08:30-08:45

opening remarks

08:45-09:10

Xinmin Zhang et al.

progress-1 chair: Bin Hu

09:10-09:40 General review of AliCPT'' by Hong Li // 09:40-10:10Current status of AliCPT'' by Congzhan Liu

coffee break

10:10-10:30

progress-2 chair: Xuelei Chen

10:30-11:00 The AliCPT-1 cryostat receiver'' by Maria Salatino $\left| \right|$ 11:00-11:30The observation control of AliCPT-1, including hardware, software, user interface. The data acqusition, including data stream, data buffering, data transmission, data center'' by Yongjie Zhang 11:30-12:00 ``CMB and the origin of our Universe'' Yifu Cai

1unch

12:00-13:30

progress-3 chair: Yunsong Piao

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13:30-13:45 Foreground removal pipeline in AliCPT'' by Le Zhang
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13:45-14:00The power of CMB-lensing: AliCPT X DESI and more...'' by Ji Yao
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14:00-14:15 RECONSTRUCTING SIMULATED CMB POLARIZATION POWER SPECTRA WITH THE ANALYTICAL
BLIND SEPARATION METHOD'' Larissa Santos
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14:15-14:30Data analysis pipeline and noise simulation for AliCPT'' by Siyu Li

pane1 discussion: experiment chair: Hong Li 14:30-15:00

coffee break

15:00-15:20

science-1 chair: Zuhui Fan

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15:20-15:35 Constructing unbiased estimator for CMB polarizations in the optimal way''
by Wen Zhao
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15:35-15:50The hemispherical power asymmetry after Planck'' by Shamik GHOSH
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15:50-16:05 the cosmic infrared background'' by Bin Yue
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16:05-16:20CMB lensing reconstruction in AliCPT'' by Bin Hu

coffee break

16:20-16:40

science-2 chair: Congfeng Qiao

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16:40-17:00 Implications for Discovery of Strong Radial Magnetic Field at the Galactic
Center'' by Qiuhe Peng
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17:00-17:20Searching for patchy reionization from the cosmic microwave background'' by
Chang Feng
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17:20-17:40 Testing Dark Matter Energy Injection in CMB Measurements'' by Yu Gao
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17:40-17:55Auto- and cross-correlation of the cosmic microwave background lensing and

infrared background measured by Planck and Herschel'' by Ye Cao

Reception

18:30-21:00

Day-2: 8th Sept

science-3 chair: Mingzhe Li

09:00-09:30 Future cosmic microwave observations from space: a European perspective'' Jacques Delabrouille $\left| \right|$ 09:30-10:00Primordial Fluctuations and Rare Objects in the Universe' Zhiqi Huang / 10:00-10:30 ``Testing significance of the large angular scale CMB anomalies'' by Pawel Bielewicz

coffee break

10:30-10:50

science-4 chair: Junqing Xia

10:50-11:20 The Probe of Inflation and Cosmic Origins'' by Shaul Hanany //11:20-11:50New Directions in Non-Gaussianity'' by Martin Bucher 11:50-12:20 ``Review of Planck inflation result'' Fabio Finelli

1unch

12:20-14:00

science-5 chair: Yu Yu

14:00-14:30 CMB lensing and Minkowski Functionals' Jan Hamann //

14:30-15:00General solutions of the leakage in integral transforms and applications to the EB-leakage and detection of the cosmological gravitational wave background'' by Hao

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Liu

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15:00-15:30 ``Galactic synchrotron emission with Gaussian random magnetic field realisation'' by Jiaxin Wang

scienceence-6 chair: Lixin Xu

/ 15:50-16:20 (remote talk) Analysis techniques for CMB B-mode experiments'' Ben Wandelt // 16:20-16:35Propagation of the gravitational waves in a cosmological background' Xian Gao 16:35-16:50 Deep learning the cosmic large scale structure '' Xiaodong Li // 16:50-17:05effective field theory of small r'' by Taotao Qiu \backslash 17:05-17:20 ``Future constraints from the gravitational wave standard siren data'' by Minghui Du

panel discussion: science

17:45-18:10

summary remarks

18:10-18:20

Day-3: 9th Sept

free discussion

09:00-18:00