## Poster program

Posters will be on display for the duration of the conference. Authors will be at their poster-board during tea/coffee breaks to discuss their research with interested delegates.

| Poster board # | Poster title and author |
|---|---|
| P1 | **The Wave-packet Impact on Active and Sterile Neutrino Oscillations in Reactor Neutrino Experiments**<br>Steven (Chan-Fai) Wong, School of Physics, Sun Yat-Sen University. |
| P2 | **Leptoquark induced flavor changing decays of Z boson and top quark**<br>Sam Ming-Yin Wong* and Fanrong Xu, Jinan University. |
| P3 | **An apparatus for studying Feshbach resonance in ultracold 6Li degenerate Fermi gas**<br>Xiao Zhang, School of Physics and Astronomy, Sun Yat-Sen University. |
| P4 | **A New Magnetic Field system for Studying Narrow Feshbach of ultracold 6Li Fermi Gases**<br>Jianxiong Fang, School of Physics and Astronomy, Sun Yat-Sen University. |
| P5 | **Optical path design for trapping $^{171}Yb^{+}$ ions experiment**<br>Tishuo Wang, School of Physics and Astronomy, Sun Yat-Sen University. |
| P6 | **Frequency stabilization of 369 nm and 935 nm for trapping $^{171}Yb^{+}$ ions**<br>Jiangyong Hu, School of Physics and Astronomy, Sun Yat-Sen University. |
| P7 | **Ion traps in harmonic and anharmonic potential**<br>Xinxin Rao, School of Physics and Astronomy, Sun Yat-Sen University. |
| P8 | **Conductance Switch on Molecular Wheels Induced by Electric Field and Controlled by Molecular Rotation**<br>Xiaobo Li, Hong Kong Baptist University. |
| P9 | **Benzo[d]thiazol-3-ium contained red emitting probe for peroxynitrite sensing**<br>Jingyun Tan, University of Macau. |
| P10 | **Machine learning with quantum computation**<br>Long Hin Li, The University of Hong Kong. |
| P11 | **Solar vapor desalination of seawater**<br>Yangshi Jin*, Chu Leung Chan and Xuming Zhang, The Hong Kong Polytechnic University. |
| P12 | **Investigation on Tin-based anode materials for $Na^{+}$ ion battery by in-situ TEM**<br>Cheuk Ho Chan* and Ji-Yan Dai, The Hong Kong Polytechnic University. |
| P13 | **Hydrostatic pressure effect on $T_c$ of $Mo_8Ga_{41}$ up to 72 kbar**<br>Wei Zhang[1,*], King Yau Yip[1], Yuet Ching Chan[1], Chia Nung Kuo[2], Chin Shan Lue[2], Kwing To Lai[1], and Swee Kuan Goh[1]<br>1. The Chinese University of Hong Kong<br>2. National Cheng Kung University |
| P14 | **Formation and Coalescence of Binary Black Holes in Active Galactic Nuclei: I - Capture of Nuclear Cluster Stars by Accretion Disks**<br>Xiaojia Zhang[1,*], Zhuoxiao Wang[2], Douglas N. C. Lin[2,3,4], and Shude Mao[2,4,5]<br>1. The University of Hong Kong<br>2. Tsinghua University<br>3. University of California, Santa Cruz<br>4. National Astronomical Observatories of China<br>5. University of Manchester |

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| P15 | **Bose Polarons in the Heteronuclear Bose-Bose Mixture**<br>Lintao Li*, Zhichao Guo and Dajun Wang, The Chinese University of Hong Kong. |
| P16 | **Realistic implementation of all-photonic quantum repeater**<br>Ming Lai Chan, The University of Hong Kong. |
| P17 | **Quantum droplet in a mixture of Rb-Na Bose-Einstein condensates**<br>Zhichao Guo*, Lintao Li and Dajun Wang, The Chinese University of Hong Kong. |
| P18 | **Exploration of the Energetic Material Ammonium Perchlorate at high pressures: Combined Raman Spectroscopy and X−ray Diffraction Study**<br>Lei Kang and Qingguang Zeng, Wuyi University. |
| P19 | **The scattering mechanism of $ZnSnN_2$**<br>Xing-Min Cai, Bo Wang and Fan Ye, Shenzhen University. |
| P20 | **MRT OBSERVATIONS ON H212CO AND H213CO TOWARD GALACTIC MOLECULAR CLOUDS**<br>Yaoting Yan, Jiangshui Zhang and Christian Henkel, Guangzhou University. |
| P21 | **Resolution criterion based on the nth-order derivative of the image that exceed the sparrow criterion**<br>Yanming Gao and Xiangyang Yu, Sun Yat-Sen University. |
| P22 | **Imaging through a thin scattering layer by wavelength-depth-matching method**<br>Junpeng Xie, Sun Yat-Sen University. |
| P23 | **Zero-Reflection effect Based on Graphene-dielectric Metamaterials**<br>Wenyao Liang, South China University of Technology. |
| P24 | **From Equilibrium to Wave Turbulence by Shaking in Holographic Superfluid**<br>Shanquan Lan, Hong Liu, Yu Tian and Hongbao Zhang, Lingnan Normal University. |
| P25 | **Joule-Thomson expansion of d-dimensional charged AdS black holes**<br>Jie-Xiong Mo∗, Gu-Qiang Li, Shan-Quan Lan and Xiao-Bao Xu, Lingnan Normal University. |
| P26 | **Photocatalytic properties of $Bi_2O_3/Bi_2VO_{5.5}$ laminated composite films**<br>Wei Xie, Changwei Zou and Guiang Liu, Lingnan Normal University. |
| P27 | **Extraction of cluster ion beams and application in synthesis of few-layer graphene on $Ni/SiO_2/Si$ substrate**<br>Zesong Wang, Rui Zhang, Canxin Tian, Changwei Zou and Dejun Fu, Lingnan Normal University. |
| P28 | **Synthesis and Microwave Absorption Enhancement of Yolk–Shell Carbon Microspheres**<br>Chunhua Tian and Jun Quan*, Lingnan Normal University. |
| P29 | **Chaoticons in highly nonlocal nonlinear optical media**<br>Lanhua Zhong, Lingnan Normal University. |
| P30 | **Microscopic piezoelectric theory of symmetry-broken $sp^2$-bonded hexagonal 2D crystals**<br>Zongtan Wang, Yunhua Wang,* Jie Tan, Yulan Liu, and Biao Wang,* Sun Yat-Sen University |
| P31 | **High-sensitivity topological insulator strain sensor**<br>Lingzhi Li, Yunhua Wang,* Zongtan Wang, Yulan Liu, and Biao Wang,* Sun Yat-Sen University |
| P32 | **Measurement of microwave-induced strain in a metallic parallel-plate cavity**<br>M. Wang [1,2], S. Wang [2], Q. Zhang [1,2], C.T. Chan [2], H.B. Chan[1]<br>[1]Department of Physics, The Hong Kong University of Science and Technology, Clear Water Bay, Kowloon, Hong Kong<br>[2]William Mong Institute of Nano Science and Technology, The Hong Kong University of Science and Technology, Clear Water Bay, Hong Kong, China |
| P33 | **Searching for Soft Pulsars with the Fermi Large Area Telescope**<br>Brent Limyansky and P. M. Saz Parkinson, The University of Hong Kong |
| P34 | **THE CONNECTION BETWEEN THERMAL AND NON-THERMAL EMISSION IN GAMMA-RAY BURSTS: THERMAL COMPONENT IS UBIQUITOUS FOR THE PROMPT EMISSION PROCESS**<br>Jing Lv, Guangxi University |