



华中师范大学夸克与轻子物理教育部重点实验室暨粒子物理研究所

# 第六届粒子所“青年之星” 2020年度研究生学术论坛

2020.12.25 - 2020.12.26 理科楼 9409 报告厅

## 论坛日程表

<https://indico.ihep.ac.cn/event/13374/>

**2020.12.25(腾讯会议 157 167 965)**

08:10 Opening address Prof. Han-Zhong Zhang and Prof. Guang-You Qin

### 08:20 – 10:20 Morning Session I Convener: Prof. Feng Liu

- 08:20 Study on production of  $\rm K_{\Lambda}^0$ ,  $\overline{\Lambda}$ ,  $\Xi^{\pm}$  and  $\Omega^{\pm}$  in jets and the underlying events in pp and p-Pb collisions with ALICE 崔捧瑶  
08:40 Nuclear modification factors and elliptic flow of electrons from open heavy flavor decays in Au+Au collisions at  $\sqrt{s_{NN}} = 200$  GeV at STAR 周颖洁  
09:00 Study of  $B \rightarrow J/\psi \phi$  at LHCb 胡文华  
09:20 Collectivity of heavy mesons in pA collisions and Collective phenomenon at the EIC 汪磊  
09:40 Power-aligned 2HDM: a correlative perspective on  $(g-2)_{e,\mu}$  李媛媛  
10:00 Coupled two-species model for the pair contact process with diffusion 邓盛锋  
10:20 Tea Break

### 10:40 – 12:20 Morning Session II Convener: Prof. Dai-Cui Zhou

- 10:40 Measurement of the production cross section of prompt  $\Xi^0_c$  baryons in pp collisions at 5.02 TeV with ALICE 程甜甜  
11:00 Effects of dissipative baryon current in heavy-ion collisions at RHIC-BES energies 吴祥宇  
11:20 Viscous Hydrodynamics with Angular Momentum 余端  
11:40 Correlated Dirac eigenvalues and axial anomaly in chiral symmetric QCD 张瑜  
12:00 Study of new physics in B decays into charged heavy-light final states 邓伟俊  
12:20 Lunch Break

### 14:00 – 15:40 Afternoon Session I Convener: Prof. Heng-Tong Ding

- 14:00 Observation of multiplicity dependence of charmed baryon-to-meson ratios in pp at  $\sqrt{s} = 13$  TeV at mid rapidity 张彪  
14:20 Probing Jet Medium Interactions via  $Z + \text{jet}$  Momentum Imbalances 陈林  
14:40 Two-Higgs-Doublet Model: Possibilities and Challenges 李少平  
15:00 Maximal Relevance and Optimal Learning Machines 谢容容  
15:20 Chiral properties of (2+1)-flavor QCD in strong magnetic fields 汪晓丹  
15:40 Tea Break

组委会：侯德富（主席） 尹航 张东亮 施梳苏 罗晓峰 池丽平 邓为炳 许明梅 李治明

粒子物理研究所

夸克物质及探测技术国际联合研究中心

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### 16:00 – 17:40 Afternoon Session II Convener: Prof. Yue-Hong Xie

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|-------|---|-----|
| 16:00 | Impact of LHCb 13 TeV W and Z pseudo-data on the Parton Distribution Functions  | 韩群东 |
| 16:20 | Heavy flavor quenching and flow: the roles of initial condition, pre-equilibrium evolution, and in-medium interaction                 | 邢文静 |
| 16:40 | Thermoelectric properties of (an-)isotropic QGP in magnetic fields  | 张贺霞 |
| 17:00 | Medium modifications of girth distributions for inclusive jets and $Z^0 + \text{jet}$ in relativistic heavy-ion collisions at the LHC | 鄢君  |
| 17:20 | Nuclear Modification of Dijet at EIC  | 张媛媛 |

2020.12.26(腾讯会议 157 167 965)

### 08:30 – 10:10 Morning Session I Convener: Prof. Han-Zhong Zhang

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| 08:30 | Study of Underlying Event Activity in pp and p-Pb collisions at $\sqrt{s_{\text{NN}}} = 5.02 \text{ TeV}$ with Alice detector at LHC | Ahsan Mehmood Khan |
| 08:50 | $D^+ \rightarrow K^0 S K^- \pi^+ \pi^+$ process的振幅分析和绝对分支比测量   | 陈端友                |
| 09:10 | $\mu N \rightarrow e N$ within Higgs FCNC  | 谢泽浚                |
| 09:30 | Semi-Inclusive Jet Functions and Jet Substructure in J(I) and J(II) Algorithms   | 王磊                 |
| 09:50 | $\gamma$ -hadron correlation in p+Pb collisions at 5.02 TeV  | 解曼                 |
| 10:10 | Systematical study of thermal width of heavy quarkonia in a finite temperature magnetized background from holography                 | 赵彦清                |
| 10:30 | Tea Break  |                    |

### 10:50 – 12:30 Morning Session II Convener: Prof. Ya-Ping Wang/Prof. Shao-Long Chen

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|-------|--|---------------------|
| 10:50 | Anisotropic flow fluctuations of identified hadrons in Pb-Pb collisions with the ALICE detector    | 朱亚                  |
| 11:10 | Probing QCD critical fluctuations from intermittency analysis in relativistic heavy-ion collisions | 吴锦                  |
| 11:30 | Direct CP violation for $\bar{B}^0 \rightarrow \phi \pi^+ \pi^-$ in Perturbative QCD               | 李升涛                 |
| 11:50 | Holographic Schwinger effect in AdS/QCD model  | 朱洲润                 |
| 12:10 | Prospects for discovering new physics in charm sector through low-energy scattering processes      | 赖丽芬                 |
| 12:30 | Summary and Conclusion   | Prof. Ben-Wei Zhang |

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