

# 第六届重味物理与量子色动力学研讨会

## Report of Contributions

Contribution ID: 1

Type: **not specified**

## Photo

Contribution ID: 2

Type: **not specified**

## Opening Remark 赵光达

*Saturday, 20 April 2024 08:40 (10 minutes)*

**Session Classification:** Opening

Contribution ID: 3

Type: **not specified**

## Review of the recent LHCb results 谢跃红 (CCNU)

*Sunday, 21 April 2024 11:00 (20 minutes)*

**Session Classification:** Session VI

Contribution ID: 4

Type: **not specified**

## Theory review for heavy-quark hadron decays 王伟 (SJTU)

*Saturday, 20 April 2024 08:50 (20 minutes)*

**Session Classification:** Session I

Contribution ID: 5

Type: **not specified**

## Welcome Address

*Saturday, 20 April 2024 08:30 (10 minutes)*

**Session Classification:** Opening

Contribution ID: 7

Type: **not specified**

## 粲重子的实验研究进展

*Sunday, 21 April 2024 10:40 (20 minutes)*

**Presenter:** 吕, 晓睿 (UCAS)

**Session Classification:** Session VI

Contribution ID: 10

Type: **not specified**

## STCF 实验的研究进展彭海平 (USTC)

*Saturday, 20 April 2024 09:50 (20 minutes)*

**Presenter:** 彭,海平 (USTC)

**Session Classification:** Session I



Contribution ID: 11

Type: **not specified**

## **Introduction to the new probe into the nature of hadronic molecules–femtoscopia 耿立升 (BUAA)**

*Saturday, 20 April 2024 10:40 (20 minutes)*

**Presenter:** 耿, 立升 (BUAA)

**Session Classification:** Session II

Contribution ID: 12

Type: **not specified**

## Light QCD exotics at BESIII 刘北江 (IHEP)

*Saturday, 20 April 2024 11:00 (20 minutes)*

**Presenter:** 刘, 北江 (IHEP)

**Session Classification:** Session II

Contribution ID: 13

Type: **not specified**

**Lattice QCD Predictions for Pion and Kaon  
Electromagnetic Form Factors at High Momenta:  
Testing Factorization in Exclusive Processes 丁亨通  
(CCNU)**

*Saturday, 20 April 2024 11:40 (20 minutes)*

**Presenter:** 丁, 亨通 (CCNU)

**Session Classification:** Session II

Contribution ID: 14

Type: **not specified**

## Lattice QCD for flavor Physics 冯旭 (PKU)

*Saturday, 20 April 2024 12:00 (20 minutes)*

**Presenter:** 冯, 旭 (PKU)

**Session Classification:** Session II

Contribution ID: 15

Type: **not specified**

## 一圈约化的生成函数冯波 (CSRC)

*Saturday, 20 April 2024 14:00 (20 minutes)*

**Presenter:** 冯, 波 (CSRC)

**Session Classification:** Session III

Contribution ID: 16

Type: **not specified**

## **Towards NNLO calculation for high energy production of ttH 杨李林 (ZJU)**

*Saturday, 20 April 2024 14:20 (20 minutes)*

**Presenter:** 杨, 李林 (ZJU)

**Session Classification:** Session III

Contribution ID: 17

Type: **not specified**

## **Energy Correlators: Theory, Phenomenology, and Experiments 朱华星 (PKU)**

*Saturday, 20 April 2024 14:40 (20 minutes)*

**Presenter:** 朱, 华星 (PKU)

**Session Classification:** Session III

Contribution ID: 18

Type: **not specified**

## 形状因子及其应用杨刚 (ITP)

*Saturday, 20 April 2024 15:00 (20 minutes)*

**Presenter:** 杨, 刚 (ITP)

**Session Classification:** Session III



Contribution ID: 19

Type: **not specified**

## **Light quark mediated Higgs boson production in association with a jet at the next-to-next-leading order and beyond 刘涛 (IHEP)**

*Saturday, 20 April 2024 15:20 (20 minutes)*

**Presenter:** 刘, 涛 (IHEP)

**Session Classification:** Session III

Contribution ID: 21

Type: **not specified**

## 北京谱仪上 R 值测量黄光顺 (USTC)

*Saturday, 20 April 2024 09:30 (20 minutes)*

**Presenter:** 黄, 光顺 (USTC)

**Session Classification:** Session I

Contribution ID: 22

Type: **not specified**

## CMS 实验 $J/\psi$ $J/\psi$ 结构的证据及与理论家合作的探讨 易凯 (NNU)

*Saturday, 20 April 2024 16:10 (20 minutes)*

**Presenter:** 易, 凯 (NNU)

**Session Classification:** Session IV

Contribution ID: 23

Type: **not specified**

## **Review of the recent Belle II results 殷俊昊 (NKU)**

*Saturday, 20 April 2024 16:30 (20 minutes)*

**Presenter:** 殷, 俊昊 (NKU)

**Session Classification:** Session IV

Contribution ID: 24

Type: **not specified**

## LHCb 实验升级进展和计划李一鸣 (IHEP)

*Saturday, 20 April 2024 16:50 (20 minutes)*

**Presenter:** 李, 一鸣 (IHEP)

**Session Classification:** Session IV

Contribution ID: 25

Type: **not specified**

## CMS 实验上 B 物理研究进展胡震 (THU)

*Saturday, 20 April 2024 17:10 (20 minutes)*

**Presenter:** 胡, 震 (THU)

**Session Classification:** Session IV

Contribution ID: 26

Type: **not specified**

## LHCb 实验上直接 CP 破坏测量张艳席 (PKU)

*Saturday, 20 April 2024 17:30 (20 minutes)*

**Presenter:** 张, 艳席 (PKU)

**Session Classification:** Session IV

Contribution ID: 28

Type: **not specified**

## **Understanding the Energy Momentum Distribution with the Weizsäcker-Williams Method 肖博文 (CUHK)**

*Sunday, 21 April 2024 08:30 (20 minutes)*

**Presenter:** 肖, 博文 (CUHK)

**Session Classification:** Session V



Contribution ID: 29

Type: **not specified**

## **Semi-inclusive Energy Correlators 刘晓辉 (BNU)**

*Sunday, 21 April 2024 08:50 (20 minutes)*

**Presenter:** 刘, 晓辉 (BNU)

**Session Classification:** Session V

Contribution ID: 30

Type: **not specified**

## **A new framework on global analysis of fragmentation functions 高俊 (SJTU)**

*Sunday, 21 April 2024 09:10 (20 minutes)*

**Presenter:** 高, 俊 (SJTU)

**Session Classification:** Session V

Contribution ID: 31

Type: **not specified**

## **Power correction of SIDIS at large transverse momentum 刘天博 (SDU)**

*Sunday, 21 April 2024 09:30 (20 minutes)*

**Presenter:** 刘, 天博 (SDU)

**Session Classification:** Session V

Contribution ID: 32

Type: **not specified**

## **New observables for the study of polarized fragmentation functions 魏树一 (SDU)**

*Sunday, 21 April 2024 09:50 (20 minutes)*

**Presenter:** 魏, 树一 (SDU)

**Session Classification:** Session V

Contribution ID: 33

Type: **not specified**

## QCD factorization for hadronic B-meson decays 李新 强 (CCNU)

*Saturday, 20 April 2024 09:10 (20 minutes)*

**Presenter:** 李, 新强 (CCNU)

**Session Classification:** Session I

Contribution ID: 34

Type: **not specified**

## **Deciphering the Long-Distance Penguin Contribution to the Double Radiative B-Meson Decays 秦溱 (CCUT)**

*Sunday, 21 April 2024 11:20 (20 minutes)*

**Presenter:** 秦, 溱 (CCUT)

**Session Classification:** Session VI

Contribution ID: 35

Type: **not specified**

## 重介子四体半轻衰变的一些探讨程山 (HNU)

*Saturday, 20 April 2024 17:50 (20 minutes)*

**Presenter:** 程, 山 (HNU)

**Session Classification:** Session IV

Contribution ID: 36

Type: **not specified**

## Precision Calculations of B-Meson Decay Form Factors 魏焰冰 (BJUT)

*Sunday, 21 April 2024 11:40 (20 minutes)*

**Presenter:** 魏, 焰冰 (BJUT)

**Session Classification:** Session VI



Contribution ID: 37

Type: **not specified**

## Exploring the heavy meson light-cone distribution amplitudes from first principles 张其安 (BUAA)

*Sunday, 21 April 2024 12:00 (20 minutes)*

**Presenter:** 张, 其安 (BUAA)

**Session Classification:** Session VI

Contribution ID: 39

Type: **not specified**

## Recent results of hadrons at Belle (II) 贾森 (SEU)

*Sunday, 21 April 2024 14:00 (20 minutes)*

**Presenter:** 贾, 森 (SEU)

**Session Classification:** Session VII

Contribution ID: 40

Type: **not specified**

## **B 介子多体衰变过程混合机制的研究吕刚 (HAUT)**

*Sunday, 21 April 2024 14:20 (20 minutes)*

**Presenter:** 吕, 刚 (HAUT)

**Session Classification:** Session VII

Contribution ID: 41

Type: **not specified**

## **Decay-angular-distribution correlated CP violation in heavy hadron cascade decays 张振华 (USC)**

*Sunday, 21 April 2024 15:20 (20 minutes)*

**Presenter:** 张, 振华 (USC)

**Session Classification:** Session VII

Contribution ID: 42

Type: **not specified**

## The low-mass enhancement of kaon pair in the three-body B-meson decays 王文飞 (SXU)

*Sunday, 21 April 2024 15:00 (20 minutes)*

**Presenter:** 王, 文飞 (SXU)

**Session Classification:** Session VII

Contribution ID: 43

Type: **not specified**

## **The heavy meson weak decays within the covariant light-front approach 张志清 (HAUT)**

*Sunday, 21 April 2024 14:40 (20 minutes)*

**Presenter:** 张, 志清 (HAUT)

**Session Classification:** Session VII

Contribution ID: 44

Type: **not specified**

## **On-shell construction of chiral effective theory 肖明磊 (SYSU)**

*Sunday, 21 April 2024 16:10 (20 minutes)*

**Presenter:** 肖, 明磊

**Session Classification:** Session VIII

Contribution ID: 45

Type: **not specified**

# Quantum computing for lattice gauge theories 李英英 (USTC)

*Sunday, 21 April 2024 16:30 (20 minutes)*

**Presenter:** 李, 英英 (USTC)

**Session Classification:** Session VIII



Contribution ID: 46

Type: **not specified**

**Pion and Kaon electromagnetic form factors up to  
Next-to-next-to-leading-order QCD corrections 陈龙  
斌 (GZHU)**

*Sunday, 21 April 2024 16:50 (20 minutes)*

**Presenter:** 陈, 龙斌 (GZHU)

**Session Classification:** Session VIII

Contribution ID: 47

Type: **not specified**

## **Hadronic Distribution Amplitudes with LQCD 华俊 (SCNU)**

*Sunday, 21 April 2024 17:10 (20 minutes)*

**Presenter:** 华, 俊 (SCNU)

**Session Classification:** Session VIII

Contribution ID: 48

Type: **not specified**

## **Renormalization-Group Evolution for the Bottom-Meson Soft Function 黄永康 (NKU)**

*Sunday, 21 April 2024 17:30 (15 minutes)*

**Presenter:** 黄, 永康 (NKU)

**Session Classification:** Session VIII

Contribution ID: 49

Type: **not specified**

## Hyperon semileptonic decays in QCD sum rules 张圣奇 (UCAS)

*Sunday, 21 April 2024 17:45 (15 minutes)*

**Presenter:** 张, 圣奇 (UCAS)

**Session Classification:** Session VIII

Contribution ID: 50

Type: **not specified**

## Decay property of X(3842) 李威 (HBU)

*Sunday, 21 April 2024 18:00 (15 minutes)*

**Presenter:** 李, 威 (HBU)

**Session Classification:** Session VIII

Contribution ID: 52

Type: **not specified**

## **BESIII 粲偶素类粲偶素郭玉萍 (FDU)**

*Monday, 22 April 2024 08:30 (20 minutes)*

**Presenter:** 郭, 玉萍 (FDU)

**Session Classification:** Session IX

Contribution ID: 53

Type: **not specified**

## **The study of Tcc and X(3872) 吴佳俊 (UCAS)**

*Monday, 22 April 2024 08:50 (20 minutes)*

**Presenter:** 吴, 佳俊 (UCAS)

**Session Classification:** Session IX

Contribution ID: 54

Type: **not specified**

## Compositeness structure of hadrons 康现伟 (BNU)

*Monday, 22 April 2024 09:10 (20 minutes)*

**Presenter:** 康, 现伟 (BNU)

**Session Classification:** Session IX



Contribution ID: 55

Type: **not specified**

## **Unified Study of the Charmed-Meson Pair System Using the Complex Scaling Method 程剑波 (UPC)**

*Monday, 22 April 2024 09:30 (20 minutes)*

**Presenter:** 程, 剑波

**Session Classification:** Session IX

Contribution ID: 56

Type: **not specified**

## A precise determination of $D_s^*$ radiative decay width from lattice QCD 孟雨 (ZZU)

*Monday, 22 April 2024 09:50 (20 minutes)*

**Presenter:** 孟雨 (ZZU)

**Session Classification:** Session IX

Contribution ID: 58

Type: **not specified**

## Implications of CP violation for new physics beyond SM 韩成成 (SYSU)

*Monday, 22 April 2024 10:40 (20 minutes)*

**Presenter:** 韩, 成成

**Session Classification:** Session X

Contribution ID: 59

Type: **not specified**

## **New spin asymmetry as a new probe of BSM 岩斌 (IHEP)**

*Monday, 22 April 2024 11:00 (20 minutes)*

**Presenter:** 岩, 斌 (IHEP)

**Session Classification:** Session X

Contribution ID: **60**

Type: **not specified**

## **Opportunities to search for New Physics in charm sector at Low-Energy Accelerators 严鑫帅 (HNU)**

*Monday, 22 April 2024 11:20 (20 minutes)*

**Presenter:** 严, 鑫帅 (HNU)

**Session Classification:** Session X

Contribution ID: 61

Type: **not specified**

## **Transverse polarization of $\Lambda$ inside jets in nucleon/nucleus collisions 宋玉坤 (UJN)**

*Monday, 22 April 2024 11:40 (20 minutes)*

**Presenter:** 宋, 玉坤 (UJN)

**Session Classification:** Session X

Contribution ID: 62

Type: **not specified**

## Fragmentation functions for doubly heavy mesons 郑绪昌 (CQU)

*Monday, 22 April 2024 12:00 (20 minutes)*

**Presenter:** 郑, 绪昌 (CQU)

**Session Classification:** Session X

Contribution ID: 63

Type: **not specified**

## **Anisotropic Flow from Multiple-Parton Scattering 张宏 (SDU)**

*Monday, 22 April 2024 14:00 (20 minutes)*

**Presenter:** 张, 宏 (SDU)

**Session Classification:** Session XI



Contribution ID: 64

Type: **not specified**

## Automatic Calculations of Feynman Integrals 陈文 (SCNU)

*Monday, 22 April 2024 14:20 (20 minutes)*

**Presenter:** 陈, 文 (SCNU)

**Session Classification:** Session XI

Contribution ID: 65

Type: **not specified**

## **Analytic third-order QCD corrections to top-quark and semileptonic $b \rightarrow u$ decays 王焯凡 (NNU)**

*Monday, 22 April 2024 14:40 (20 minutes)*

**Presenter:** 王, 焯凡 (NNU)

**Session Classification:** Session XI

Contribution ID: 66

Type: **not specified**

**QCD resummation of dijet and photon + jet  
azimuthal decorrelations in p-p and p-A collisions 高  
梅森 (FDU)**

*Monday, 22 April 2024 15:00 (20 minutes)*

**Presenter:** 高, 梅森 (FDU)

**Session Classification:** Session XI

Contribution ID: 67

Type: **not specified**

## $\Lambda_b$ 重子衰变及其形状因子

*Monday, 22 April 2024 15:20 (15 minutes)*

**Presenter:** 李, 磊毅 (IHEP)

**Session Classification:** Session XI

Contribution ID: 69

Type: **not specified**

## **Selected topics in hadronic B decays 郑海扬 (AS)**

*Monday, 22 April 2024 16:10 (20 minutes)*

**Presenter:** 郑, 海扬 (AS)

**Session Classification:** Session XII

Contribution ID: 70

Type: **not specified**

## **Topological diagrams and charmed baryon weak decays 徐繁荣 (JNU)**

*Monday, 22 April 2024 16:30 (20 minutes)*

**Presenter:** 徐, 繁荣 (JNU)

**Session Classification:** Session XII

Contribution ID: 71

Type: **not specified**

## **Factorization and resummation of the heavy quark pairs angular decorrelation 邵鼎煜 (FDU)**

*Monday, 22 April 2024 16:50 (20 minutes)*

**Presenter:** 邵, 鼎煜 (FDU)

**Session Classification:** Session XII

Contribution ID: 72

Type: **not specified**

## **Infrared singularities of massive QCD amplitudes 刘泽茏 (IHEP)**

*Monday, 22 April 2024 17:10 (20 minutes)*

**Presenter:** 刘, 泽茏 (IHEP)

**Session Classification:** Session XII



Contribution ID: 73

Type: **not specified**

## **Bc 介子衰变和极化的理论研究朱瑞林 (NNU)**

*Monday, 22 April 2024 17:50 (20 minutes)*

**Presenter:** 朱, 瑞林 (NNU)

**Session Classification:** Session XII

Contribution ID: 74

Type: **not specified**

## Closing Remark 吕才典 (IHEP)

*Monday, 22 April 2024 18:10 (10 minutes)*

**Presenter:** 吕, 才典 (IHEP)

**Session Classification:** Session XII

Contribution ID: 76

Type: **not specified**

## Belle II 对 $B^+ \rightarrow K^+ \nu \bar{\nu}$ 测量中的超出, (Dark) SMEFT, 与新物理的味结构”

*Monday, 22 April 2024 17:30 (20 minutes)*

**Presenter:** Dr 袁, 兴博 (华中师范大学)

**Session Classification:** Session XII

Contribution ID: 77

Type: **not specified**

## 改维变换：单圈积分计算的新方法

*Saturday, 20 April 2024 11:20 (20 minutes)*

**Presenter:** Prof. 马, 滢青

**Session Classification:** Session II