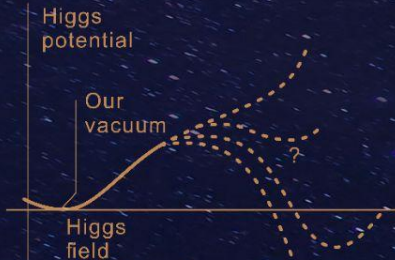
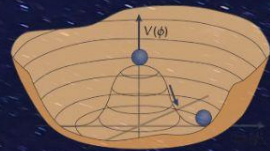




# HIGGS POTENTIAL 2024

## HIGGS POTENTIAL AND BSM OPPORTUNITIES



### Local Organizers:

Yingying Li,  
Yanwen Liu,  
Nan Lu,  
Yusheng Wu,  
Lailin Xu,  
Hongtao Yang

### Academic Committee:

Ligong Bian,  
Xuan Chen,  
Jiayin Gu,  
Yanping Huang,  
Yun Jiang,  
Zhaofeng Kang,  
Lingfeng Li,  
Qiang Li,

Shu Li,  
Bingxuan Liu,  
Kun Liu,  
Yanlin Liu,  
Yanwen Liu,  
Yang Liu,  
Zhen Liu,  
Nan Lu,

Lianliang Ma,  
Michael-Ramsey-Musolf,  
Xiaohu Sun,  
Junquan Tao,  
Jian Wang,  
Jin Wang,  
Xiaoping Wang,  
Yusheng Wu,

Meng Xiao,  
Bin Yan,  
Zhengyun You,  
Jianghao Yu,  
Li Yuan,  
Lei Zhang,  
Chen Zhou.

December 19-23, 2024  
Hefei, China



中国科学技术大学  
University of Science and Technology of China

主办单位：中国科学技术大学物理学院



# Higgs Potential 2024

## ❖ LOC:

- Yingying Li, Yanwen Liu, Nan Lu, Yusheng Wu, Lailin Xu, Hongtao Yang
- Secretariats: Xiaoqian Xu, Gongxiu Dong
- Volunteers: Yanqi Wang, Yuxiang Cao, Zhiliang Chen, Zhanhang Zhou

Committee	Theory	Experiments
<b>Higgs &amp; related indirect BSM</b>	Xuan Chen, Jiayin Gu, Bin Yan, <b>Xiaoping Wang</b>	Yanping Huang, Lianliang Ma, Yusheng Wu, Meng Xiao, <b>Li Yuan</b>
<b>DiHiggs &amp; related BSM</b>	Lingfeng Li, Michael Ramsey-Musof, Jian Wang, <b>Jianghao Yu</b>	<b>Yanlin Liu</b> , Nan Lu, Jin Wang, Xiaohu Sun, Lei Zhang, Chen Zhou
<b>Direct BSM</b>	<b>Ligong Bian</b> , Yun Jiang, Zhaofeng Kang, Zhen Liu	Qiang Li, Shu Li, Bingxuan Liu, Kun Liu, <b>Yang Liu</b> , Yanwen Liu, Junquan Tao, Zhengyun You

# Workshop logistics

- ❖ Workshop venue: 25th floor
- ❖ WIFI: BEST WESTERN; no password
  - Needs registration with mobile phones
- ❖ Meals
  - **Lunch/Dinner Buffet:** DreamLand Cafeteria, 1st Floor (一楼梦泽园西餐厅)
  - **Banquet**(Dec 21, Saturday evening): Huasong Banquet Hall, 25th Floor (二十五楼华嵩厅)
- ❖ LOC Contact:
  - Gongxiu Dong:13956926112
  - Xiaoqian Xu:18556518537

# Agenda

- ❖ Three full-day workshop, with enough time for discussion
  - Friday: Higgs & related BSM
  - Saturday: DiHiggs & related BSM
  - Sunday: Direct BSM
  - We are looking forward fruitful discussion among theorists and experimentalists
- ❖ Meeting starts at 8:30AM each day
- ❖ Workshop photo: Friday(today) afternoon coffee break
- ❖ Public lecture: Friday evening (7:00pm at USTC East Campus)
  - The lecture will start with a special musical performance
  - A shuttle will be provided to commute between the hotel and the campus  
→ contact the LOC if you haven't signed up
- ❖ Workshop dinner: Saturday evening



# 宇宙起源和物质最深处



曹庆宏 北京大学博雅特聘教授

## 报告简介

宇宙中最难以理解的问题是什么？本报告介绍宇宙起源、演化和物质最深处结构，从时间尺度出发介绍粒子物理和宇宙学相关的理论假说，聚焦质量起源和对称性破缺等前沿问题。

## 嘉宾简介

曹庆宏，北京大学物理学院副院长、博雅特聘教授、国家杰出青年科学基金项目获得者，1996年本科毕业于南开大学，1999年硕士毕业于北京大学，2005年博士毕业于美国密歇根州立大学。在美国加州大学河滨分校、阿贡国家实验室、芝加哥大学从事博士后研究，2011年9月入职北京大学物理学院。长期从事粒子物理理论和唯象学研究，围绕大型强子对撞机实验寻找TeV能量区间的新物理信号，探索基本粒子的质量起源和对称性破缺机制。主要研究方向包括，顶夸克物理、新物理信号的寻找、微扰量子色动力学在大型强子对撞机上的应用、粒子宇宙学等。

2024/12·20 FRIDAY  
19:00 > 20:30

■ 时间：2024年12月20日 19:00-20:30  
■ 地点：中国科大东区 物质楼三楼报告厅

主办：中国科学技术大学

承办：中国科学技术大学物理学院 中国科学技术大学人文与社会科学学院 中国科学技术大学粒子科学与技术中心 中国科学技术大学科学传播研究与发展中心

HISTORY OF THE UNIVERSE

# Relax and Enjoy the Higgs Potential!

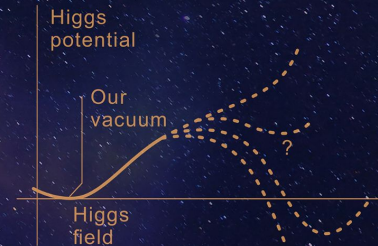
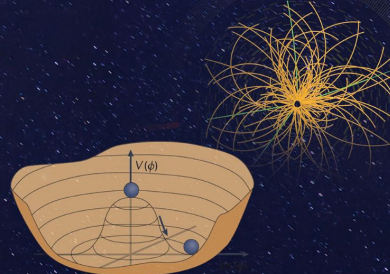
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Nan Lu,	



December 19-23, 2024

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<https://indico.pnp.ustc.edu.cn/event/2009/>

