

2024 粒子物理实验径迹重建研讨会

2024 Workshop of Tracking in
Particle Physics Experiments

Introduction

Xiaocong Ai (ZZU) for the Organizing Committee

May 17, 2024, Zhengzhou

About particle physics research in ZZU

Theory

- Hadron physics : 李德民、王恩、王晓玉、宋勤涛、徐吉
- New physics phenomenology : 王飞、柳国丽、张阳
- Lattice QCD : 孟雨
- Holographic QCD : 李志镔

Experiments

Detector

- JUNO : 杨洁、路书祥、谷肖飞
- LHAASO : 穆慧君、刘海东、韩毅昂
- STCF : 刘义
- ATLAS : 刘义、艾小聪

Software & Computing

- ATLAS/FASER/STCF/CEPC tracking and ACTS、ML : 艾小聪、刘义
- DAQ: 刘义

Physics analysis

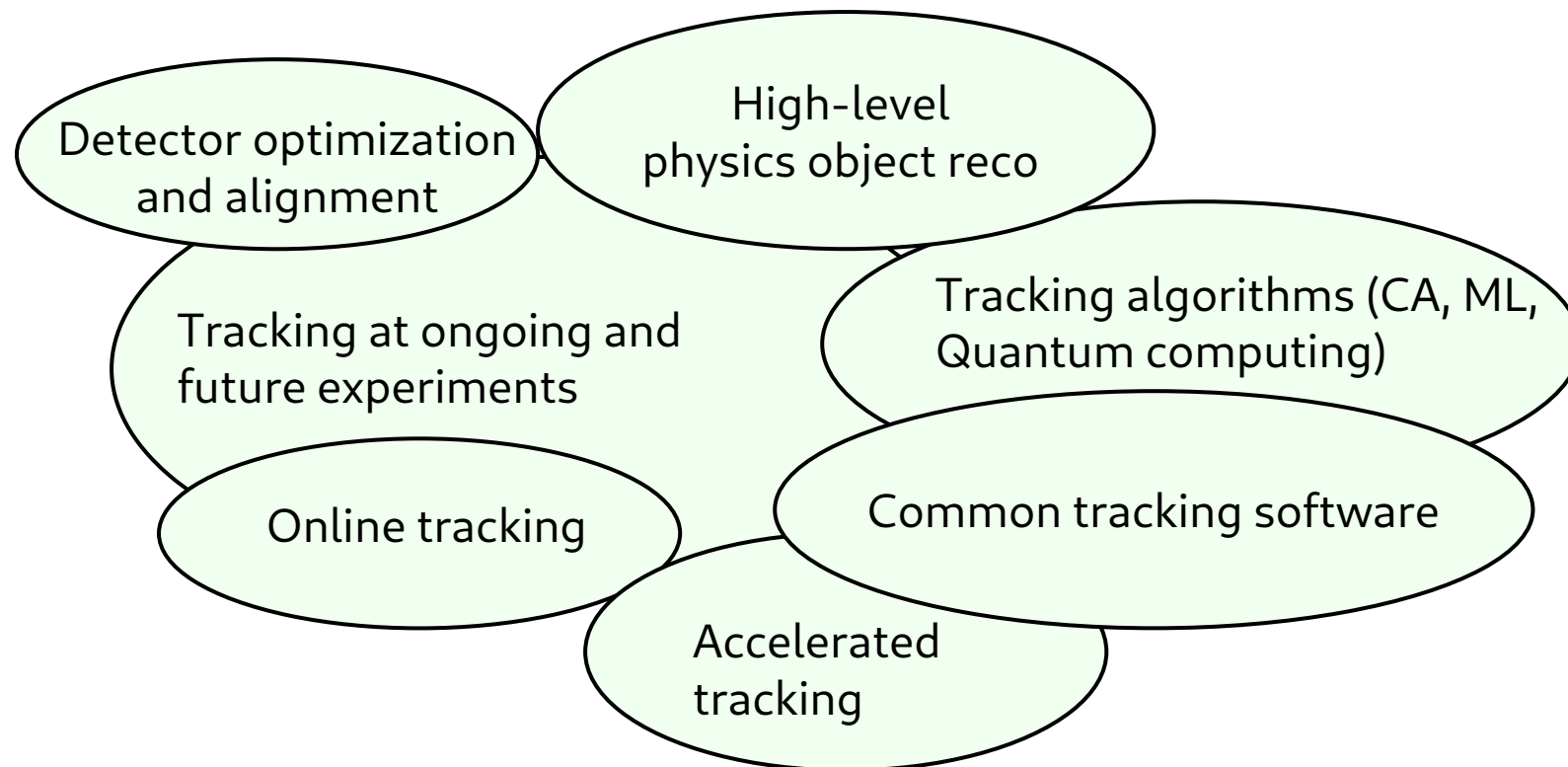
- BESIII : 杜书先、闫文成、张亚腾、柯百谦、刘义、艾小聪
- Belle II : 闫文成
- ATLAS: 艾小聪

Why this workshop

- To share tracking experience between ongoing HEP experiments, e.g. BESIII, ATLAS, BELLE-II, LHCb ... (from flavor frontier to energy frontier, from multi-GeV to TeV...)
- To inspire tracking at future HEP experiments, e.g. CEPC, STCF...
 - Detector design, optimization, alignment
- To tackle tracking challenges with increasing luminosity and pileup
- To push the limit of high-level physics object precision hence physics precision
- To explore the power of ML and heterogeneous computing
- ...

Topics

- 23 talks (20 mins to 40 mins) + 4 discussion



Venue

Zhengzhou University

We are here



Venue

We are here



Organizing committee

- 郑州大学：艾小聪、刘义
- 中科院高能物理研究所：李卫东、孙胜森、伍灵慧、王亮亮
- 山东大学：黄性涛、秦小帅、李腾
- 中山大学：张晋
- 中科院近代物理研究所：郭爱强
- 清华大学：胡震

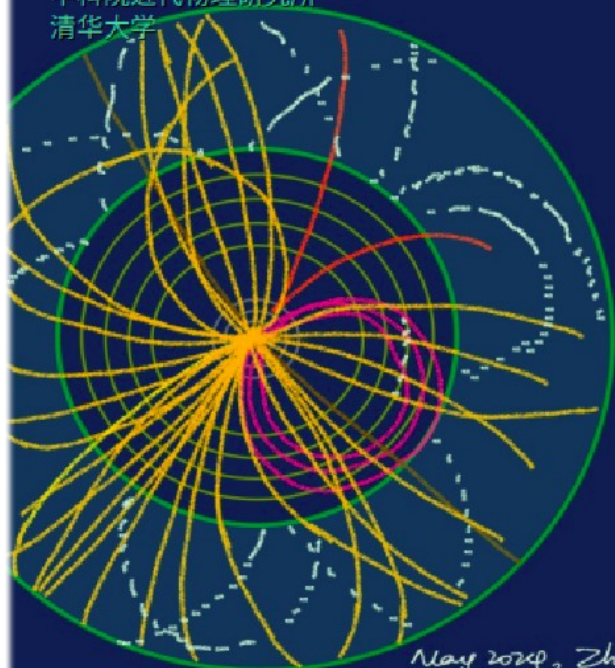


We wish you a nice and fruitful workshop !

Please check the wechat group for notification about food, departure...

and get in contact with the local organizing committee if any help is needed !

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Workshop of Tracking in Particle Physics Experiments
2024年5月16-19日, 郑州
注册截至时间: 2024年4月30日

举办单位:
郑州大学
中科院高能物理研究所
山东大学
中山大学
中科院近代物理研究所
清华大学



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