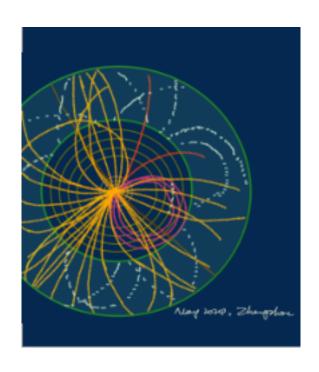
2024 年粒子物理实验径迹重建 研讨会 Workshop of Tracking in Particle Physics Experiments



Report of Contributions

Contribution ID: 1 Type: not specified

Introduction

Presenter: AI, Xiaocong (Zhengzhou University)

Session Classification: Tracking experience of HEP experiments

Contribution ID: 2 Type: not specified

Track reconstruction and performance of BESIII

Friday, 17 May 2024 08:45 (40 minutes)

Presenter: WANG, Liang-Liang (Institute of High Energy Physics (Beijing))

Session Classification: Tracking experience of HEP experiments

Contribution ID: 3 Type: not specified

Tracking reconstruction and performance of CEPC

Friday, 17 May 2024 09:50 (30 minutes)

Presenter: 刘, 梦瑶 (高能所)

Session Classification: Tracking experience of HEP experiments

Contribution ID: 4 Type: **not specified**

Track reconstruction and performance of STCF

Friday, 17 May 2024 10:50 (30 minutes)

Presenter: ZHOU, Hang (University of Science and Technology of China)

Session Classification: Tracking experience of HEP experiments

Contribution ID: 5 Type: **not specified**

Track reconstruction and performance of darkSHINE

Friday, 17 May 2024 11:20 (25 minutes)

Presenter: ZHANG, Junhua (Shanghai Jiao Tong University)

Session Classification: Tracking experience of HEP experiments

Contribution ID: 6 Type: **not specified**

Track reconstruction and performance of LHCb

Friday, 17 May 2024 14:00 (40 minutes)

Presenter: LI, Peilian (UCAS)

Session Classification: Tracking experience of HEP experiments

Contribution ID: 7 Type: **not specified**

Track reconstruction and performance of ATLAS

Friday, 17 May 2024 14:40 (40 minutes)

Presenter: GREFE, Christian (University of Bonn)

Session Classification: Tracking experience of HEP experiments

Contribution ID: 8 Type: not specified

Track reconstruction and performance of BELLE-II

Friday, 17 May 2024 15:50 (40 minutes)

Presenter: LUECK, Thomas (INFN - National Institute for Nuclear Physics)

Session Classification: Tracking experience of HEP experiments

Contribution ID: 9 Type: not specified

ACTS status

Friday, 17 May 2024 16:30 (40 minutes)

Presenter: SALZBURGER, Andreas (CERN)

Session Classification: Tracking experience of HEP experiments

Contribution ID: 10 Type: not specified

ML for HEP tracking

Session Classification: Track finding algorithms (CA and ML)

Contribution ID: 11 Type: not specified

GNN for tracking at BESIII and STCF

Saturday, 18 May 2024 09:25 (25 minutes)

Presenter: 贾, 晓倩 (山东大学)

Session Classification: Track finding algorithms (CA and ML)

Contribution ID: 12 Type: not specified

Track finding with Cellular Automaton

Saturday, 18 May 2024 09:00 (25 minutes)

Presenter: GUO, Aiqiang (Institute of modern physics, Chinese Academy of Sciences)

Session Classification: Track finding algorithms (CA and ML)

Contribution ID: 13 Type: not specified

Alignment of BESIII

Saturday, 18 May 2024 11:15 (30 minutes)

Presenter: WU, Linghui (IHEP)

Session Classification: Track-based high-level object reconstruction and detector align-

ment

Contribution ID: 14 Type: not specified

Kalman-Filter based alignment in ACTS

Presenter: AI, Xiaocong (Zhengzhou University)

Session Classification: Track-based high-level object reconstruction and detector align-

ment

Contribution ID: 15 Type: not specified

L1 tracking of CMS

Saturday, 18 May 2024 14:00 (20 minutes)

Presenter: HU, Zhen (Tsinghua University)

Session Classification: Online tracking and trigger

Contribution ID: 16 Type: not specified

Development of first level track trigger at Belle II using Deep Neural Network

Saturday, 18 May 2024 14:20 (30 minutes)

Presenter: LIU (刘), Yuxin (字鑫) (The Graduate University for Advanced Studies, SOK-

ENDAI)

Session Classification: Online tracking and trigger

Contribution ID: 17 Type: not specified

MDC Track Reconstruction for the Pre-Research of STCF L1 Trigger

Saturday, 18 May 2024 14:50 (30 minutes)

Presenter: 郝, 艺迪 (中国科学技术大学)

Session Classification: Online tracking and trigger

Contribution ID: 18 Type: not specified

EDM4hep: the Data Model in Key4HEP

Saturday, 18 May 2024 15:50 (30 minutes)

Presenter: ZOU, Jiaheng (高能所)

Session Classification: GPU-accelerated tracking

Contribution ID: 19 Type: not specified

TRACCC status

Saturday, 18 May 2024 16:20 (30 minutes)

Presenter: YEO, Beomki (UC Berkeley)

Session Classification: GPU-accelerated tracking

Contribution ID: 20 Type: not specified

TRACCC seeding for the CEPC pixel detector

Saturday, 18 May 2024 16:50 (30 minutes)

Presenter: 张, 逸舟

Session Classification: GPU-accelerated tracking

Contribution ID: 21 Type: not specified

Detector geometry description and implementation

Sunday, 19 May 2024 09:00 (30 minutes)

Presenter: 李, 腾 (Shandong University)

Session Classification: Detector geometry description and optimization

Contribution ID: 22 Type: not specified

Detector geometry optimization

Sunday, 19 May 2024 09:30 (30 minutes)

Presenters: LI, Gang (高能所); (EPD.IHEP), LI Gang (高能所)

Session Classification: Detector geometry description and optimization

Contribution ID: 23

Discussion: low momentum tracking

Sunday, 19 May 2024 10:30 (20 minutes)

Discussion: low momentum tracking

Type: not specified

Presenter: ZHANG, Jin (Sun Yat-Sen (Zhongshan) University)

Session Classification: Discussion and prospects

Contribution ID: 24 Type: not specified

Discussion: tracking in high noise/dense environment

Sunday, 19 May 2024 10:50 (20 minutes)

Discussion: tracking in high nois $\boxtimes \dots$

Presenter: QIN, Xiaoshuai (Shandong University)

Session Classification: Discussion and prospects

Contribution ID: 25 Type: not specified

Discussion: Long-lived particle tracking

Sunday, 19 May 2024 11:10 (15 minutes)

Discussion: Long-lived particle $\operatorname{tr} \boxtimes \dots$

Presenter: AI, Xiaocong (Zhengzhou University)

Session Classification: Discussion and prospects

Contribution ID: 26 Type: not specified

Discussion: prospects of common tracking software for future HEP experiments

Sunday, 19 May 2024 11:25 (15 minutes)

Presenter: AI, Xiaocong (Zhengzhou University)

Session Classification: Discussion and prospects

Contribution ID: 27 Type: not specified

Arbor and Jet origin id reconstruction at CEPC

Saturday, 18 May 2024 10:40 (35 minutes)

Presenter: RUAN, Manqi (IHEP)

Session Classification: Track-based high-level object reconstruction and detector align-

ment

Contribution ID: 28 Type: not specified

GNN for tracking at g-2

Saturday, 18 May 2024 09:50 (20 minutes)

Presenter: LI, Bingzhi (Zhejiang Lab 之江实验室)

Session Classification: Track finding algorithms (CA and ML)

Contribution ID: 29 Type: not specified

Quantum algorithms for track reconstruction at future colliders

Friday, 17 May 2024 17:10 (30 minutes)

Presenter: OKAWA (大川), Hideki (英希) (IHEP)

Session Classification: Tracking experience of HEP experiments

Contribution ID: 30 Type: not specified

Track reconstruction and performance of COMET

Friday, 17 May 2024 09:25 (25 minutes)

Presenter: XING, Tianyu (高能所)

Session Classification: Tracking experience of HEP experiments

Contribution ID: 31 Type: not specified

Introduction & Welcome

Session Classification: Welcome & Introduction

Contribution ID: 32 Type: not specified

Welcome & Introduction

Friday, 17 May 2024 08:30 (15 minutes)

Session Classification: Tracking experience of HEP experiments