Workshop on kaons with CLAS12

Report of Contributions

https://agenda.infn.it/e/33338

Contribution ID: **1** Type: **not specified**

Alignment of the CLAS12 RICH

Friday, 16 December 2022 15:00 (20 minutes)

Presenter: MIRAZITA, Marco (Istituto Nazionale di Fisica Nucleare)

Session Classification: Machine learning applications to RICH detectors

Contribution ID: **2** Type: **not specified**

ML for the RICH alignment

Friday, 16 December 2022 15:20 (20 minutes)

Presenter: Dr GYURJINYAN, Armen (INFN Laboratori Nazionali di Frascati)

Session Classification: Machine learning applications to RICH detectors

Contribution ID: **3** Type: **not specified**

The CLAS12 CVT alignment

Friday, 16 December 2022 16:30 (20 minutes)

Presenter: Dr PAUL, Sebouh (University of California Riverside)

Session Classification: Machine learning applications to RICH detectors

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

Discussion and final remarks

Friday, 16 December 2022 17:00 (30 minutes)

Session Classification: Machine learning applications to RICH detectors

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

The CLAS12 RICH reconstruction

Wednesday, 14 December 2022 14:30 (20 minutes)

Presenter: CONTALBRIGO, Marco (Istituto Nazionale di Fisica Nucleare)

Session Classification: Machine learning applications to RICH detectors

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

ML application for pattern recognition PID

Wednesday, 14 December 2022 15:00 (30 minutes)

Presenter: GAVALIAN, Gagik (Jefferson National Lab)

Session Classification: Machine learning applications to RICH detectors

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

Deep learning algorithm for Cherenkov detectors

Presenter: FANELLI, Cristiano

Contribution ID: **8** Type: **not specified**

Integrating Cherenkov detectors for PID

Wednesday, 14 December 2022 16:10 (20 minutes)

Presenter: UNGARO, Maurizio (JLAB/UCONN)

Session Classification: Machine learning applications to RICH detectors

Contribution ID: **9** Type: **not specified**

Discussion

Wednesday, 14 December 2022 16:55 (50 minutes)

Session Classification: Machine learning applications to RICH detectors

Contribution ID: **10** Type: **not specified**

Welcome and introduction

Tuesday, 13 December 2022 14:30 (10 minutes)

Session Classification: SIDIS with kaons

Contribution ID: **11** Type: **not specified**

CLAS12 proposal: Unpolarized Kaon electroproduction on Hydrogen and Deuteron targets

Tuesday, 13 December 2022 14:40 (15 minutes)

Presenter: VALLARINO, Simone (Istituto Nazionale di Fisica Nucleare)

Session Classification: SIDIS with kaons

Contribution ID: **12** Type: **not specified**

CLAS12 proposal: Multiplicities and DSA in Kaon electroproduction on Hydrogen and Deuteron targets

Tuesday, 13 December 2022 15:00 (15 minutes)

Presenter: BENMOKHTAR, Fatiha (Duquesne University)

Session Classification: SIDIS with kaons

Contribution ID: **13** Type: **not specified**

CLAS12 proposal: SSA in Kaon electroproduction on Hydrogen and Deuteron targets

Tuesday, 13 December 2022 15:20 (15 minutes)

Presenter: AVAGYAN, Harut (Jefferson Lab)

Session Classification: SIDIS with kaons

Contribution ID: **14** Type: **not specified**

SSA in kaon SIDIS

Tuesday, 13 December 2022 16:00 (20 minutes)

Presenter: Dr KRIPKO, Aron (II Physikalisches Institut der Universitaet Giessen)

Session Classification: SIDIS with kaons

Contribution ID: **15** Type: **not specified**

Exclusive K and K*

Tuesday, 13 December 2022 16:30 (20 minutes)

Presenter: Dr WEISS, Christian (Jefferson Lab)

Session Classification: SIDIS with kaons

Contribution ID: **16** Type: **not specified**

Discussion and plans for the data analysis

Tuesday, 13 December 2022 17:00 (30 minutes)

Session Classification: SIDIS with kaons

Contribution ID: **17** Type: **not specified**

p K+ correlations

Thursday, 15 December 2022 14:30 (20 minutes)

Presenter: BENMOKHTAR, Fatiha (Duquesne University)

Session Classification: SIDIS with kaons

Contribution ID: **18** Type: **not specified**

Back-to-back pions and kaons with unpol. and lonitudinal pol. Targets

Thursday, 15 December 2022 15:45 (20 minutes)

Presenter: AVAGYAN, Harut (Jefferson Lab)

Session Classification: SIDIS with kaons

Contribution ID: **19** Type: **not specified**

Fracture Function Formalism: longitudinal target asymmetries

Thursday, 15 December 2022 15:15 (20 minutes)

Presenter: KOTZINIAN, Aram (Istituto Nazionale di Fisica Nucleare)

Session Classification: SIDIS with kaons

Contribution ID: **20** Type: **not specified**

Fracture functions and higher twist observables

Thursday, 15 December 2022 16:30 (20 minutes)

Presenter: Dr TONG , Xuan-bo (The Chinese University of Hong Kong, Shenzhen)

Session Classification: SIDIS with kaons

Contribution ID: **21** Type: **not specified**

Fracture functions in collinear approximation

Thursday, 15 December 2022 17:00 (20 minutes)

Presenter: CECCOPIERI, Federico Alberto (Université de Liège)

Session Classification: SIDIS with kaons

Contribution ID: **22** Type: **not specified**

Discussion and plans for the data analysis

Thursday, 15 December 2022 17:45 (15 minutes)

Session Classification: SIDIS with kaons

Contribution ID: **23** Type: **not specified**

Pion/Kaon and Kaon/Pions contaminations studies with RICH for ep->epiX and ep->eKX

Thursday, 15 December 2022 15:00 (10 minutes)

Presenter: Dr PECAR, Gabriel (Duquesne University)

Session Classification: SIDIS with kaons

Contribution ID: **24** Type: **not specified**

Deep learning algorithm for Cherenkov detectors

Friday, 16 December 2022 14:30 (20 minutes)

Presenter: FANELLI, Cristiano (MIT)

Session Classification: Machine learning applications to RICH detectors

Contribution ID: **25** Type: **not specified**

Graph neural networks for RICH reconstruction

Wednesday, 14 December 2022 16:40 (10 minutes)

Presenter: Dr PECAR, Connor (Duke University)

Session Classification: Machine learning applications to RICH detectors

Contribution ID: **26** Type: **not specified**

ALU with pion-kaon dihadrons

Thursday, 15 December 2022 17:30 (10 minutes)

Presenter: Dr PECAR, Connor (Duke University)

Session Classification: SIDIS with kaons