

# Partons and QCD group @ LIP

Meeting with Advisory Committee, LIP, 20 April 2024



Members: Catarina Quintans, Marcin Stolarski, Christophe Pires, Guilherme Almeida, Bárbara Pereira Former members: Pietro Faccioli, Rita Silva

External Collaborators: Carlos Azevedo, Ema Fadiga, Iara Neves (Univ. Aveiro), Francesco Vagge (Univ. Torino)



#### **AMBER Experiment (NA66)**

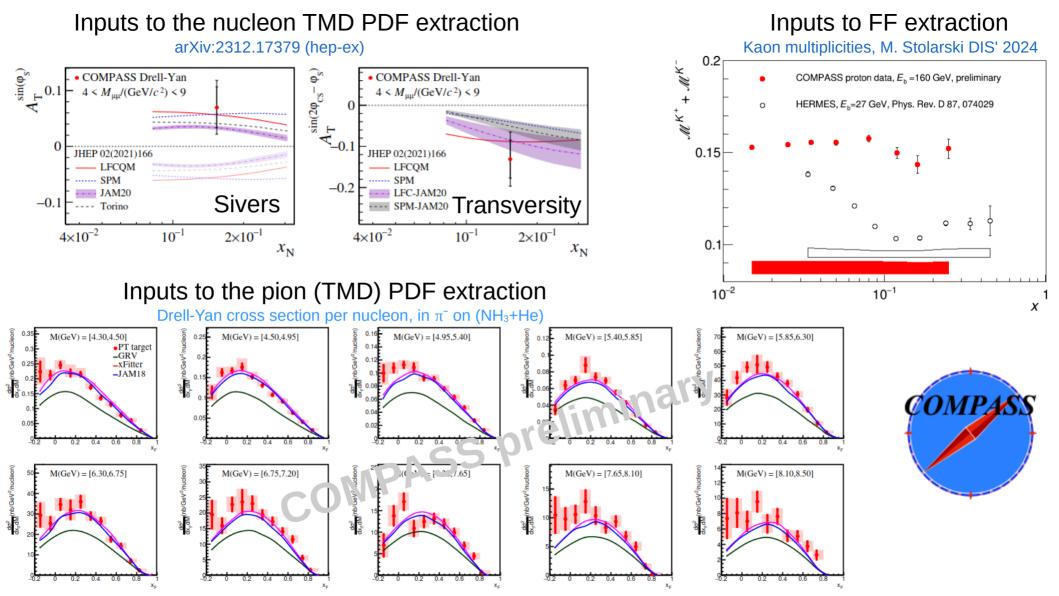
- Proposal phase-I: CERN-SPSC-2019-022, May 2019
- CERN approval for phase-I: December 2020
- First year of data-taking, for pbar x-section in p-He, in 2023. Continuing now with p-H and p-D.
- This year's Run started on 10th April

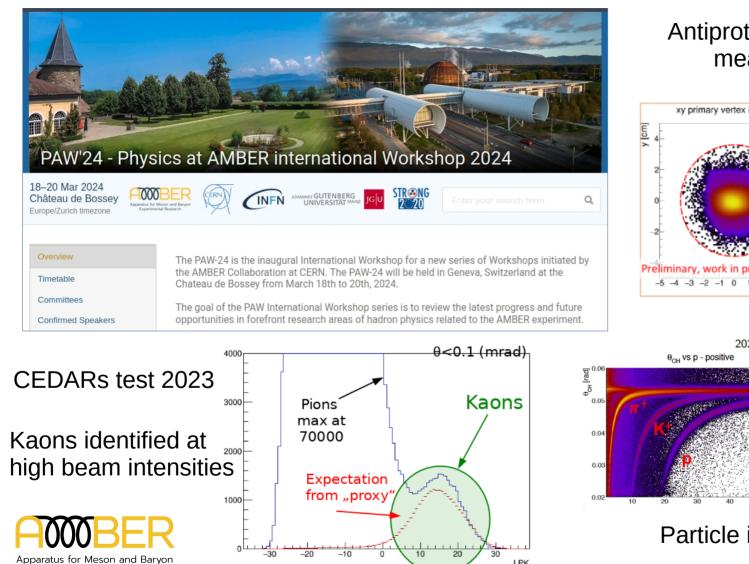


### **COMPASS Experiment (NA58)**

- Last data taking in 2022
- Now in "Data Analysis phase"
- Writing of papers, etc



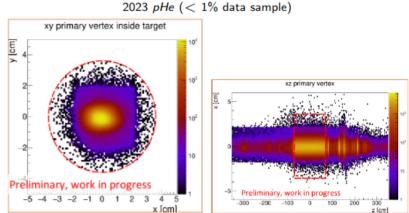


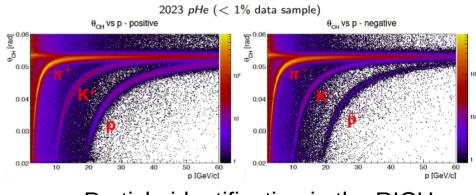


**Experimental Research** 

LPK

### Antiproton production cross section measurement (2023/2024)





Particle identification in the RICH

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## A long list of tasks/responsabilities:

- Responsible for the Detector Control System
- Coordination of COMPASS Drell-Yan physics group
- Key role in Drell-Yan and DIS physics analyses
- Member at AMBER Publications Committee
- Member of AMBER Technical Board

## Synergies:

- 1 masters thesis ongoing (E. Fadiga, Aveiro Univ.) (in co-supervision)
- Supervision of students (B. Pereira, G. Almeida), including ERASMUS+ (in cooperation with Turin Univ.)
- Strong cooperation with the Aveiro University/I3N group (joint funding project to FCT)

MoU of AMBER waiting for portuguese signature

### SWOT:

Solid know-how, and a lot of potential in the group



The group is getting smaller. One member of the group lost last year, another member in extremely precarious employment situation

serious threats

FCT project ended on 30/11/2023 New application to FCT "CERN Fund" ongoing New application to FCT Exploratory projects ongoing