Internal workshop on Femtoscopy for (anti)nuclei studies

Report of Contributions

Internal worksho $\dots \ /$ Report of Contributions

Seminar

Contribution ID: 1

Type: not specified

Seminar

Tuesday, 24 January 2023 11:00 (2 hours)

Presenter: MANTOVANI SARTI, Valentina

Introduction: femtoscopy for the s...

Contribution ID: 3

Type: not specified

Introduction: femtoscopy for the study of antinuclei

Monday, 23 January 2023 11:00 (10 minutes)

Presenter: BELLINI, Francesca (Istituto Nazionale di Fisica Nucleare) **Session Classification:** Group discussion

(Anti)nuclei at the LHC - overview...

Contribution ID: 4

Type: not specified

(Anti)nuclei at the LHC - overview of production measurements with Run1+2 data

Monday, 23 January 2023 11:10 (15 minutes)

Presenter: MALFATTORE, Giovanni (Istituto Nazionale di Fisica Nucleare) **Session Classification:** Group discussion

Status and perspective for measur ...

Contribution ID: 5

Type: not specified

Status and perspective for measurements with Run 3 data

Monday, 23 January 2023 11:25 (15 minutes)

Presenter: JACAZIO, Nicolo' (Istituto Nazionale di Fisica Nucleare) **Session Classification:** Group discussion

Status of antinuclei measurements ...

Contribution ID: 6

Type: not specified

Status of antinuclei measurements in Run 3

Monday, 23 January 2023 11:40 (15 minutes)

Presenter: RATH, Rutuparna (Istituto Nazionale di Fisica Nucleare) **Session Classification:** Group discussion

The proton source at the LHC - sta ...

Contribution ID: 7

Type: not specified

The proton source at the LHC - status and perspectives for measurements with Run3 data

Monday, 23 January 2023 11:55 (15 minutes)

Presenter: AGRAWAL, Neelima (Istituto Nazionale di Fisica Nucleare) **Session Classification:** Group discussion

Fitting the correlation functions u ...

Contribution ID: 8

Type: not specified

Fitting the correlation functions using CATS

Monday, 23 January 2023 12:25 (35 minutes)

The analysis framework called "Correlation Analysis Tool using the Schrödinger equation" (CATS) computes the two-particle femtoscopy correlation function C(k), with k being the relative momentum for the particle pair. Any local interaction potential and emission source function can be used as an input and the wave function is evaluated exactly. This tool has beed applied to study the sensitivity of the correlation function to the interaction potential for different particle pairs (p-p, p- Λ , K--p, K+-p, p- Ξ - and Λ - Λ ,...). Femtoscopic measurements as those performed by ALICE in recent years can be exploited in order to constrain the final state interactions among hadrons, with application to the study of nuclei formation mechanisms.

Presenter: MANTOVANI SARTI, Valentina (Technische Universitaet Munchen)

Session Classification: Group discussion

Discussion: Run 3 data analysis

Contribution ID: 9

Type: not specified

Discussion: Run 3 data analysis

Monday, 23 January 2023 15:00 (2 hours)

Session Classification: Group discussion

Fitting the correlation function wi...

Contribution ID: 10

Type: not specified

Fitting the correlation function with the Lednicky-Lyuboshitz model

Monday, 23 January 2023 12:10 (15 minutes)

Presenter: ROMANENKO, Gleb (Istituto Nazionale di Fisica Nucleare)

Session Classification: Group discussion