

## Session Program

Jun 3 – 7, 2024



# Strangeness in Quark Matter 2024 (SQM 2024)

## *Track2-HF&Q*

Université de Strasbourg / Palais de la Musique et des Congrès, Room Curie  
Strasbourg, France

## Tue, June 4

8:30 AM

**Track2-HF&Q**

Session | Location: Palais de la Musique et des Congrès, Room Rome | Convener: Joerg Aichelin

8:30 – 8:50 AM **Heavy Flavour Energy Loss in Small and Large Systems**Speaker  
Coleridge Faraday

8:50 – 9:10 AM

**Mass hierarchy of heavy quark energy loss within a perturbative-non-perturbative transport model**Speaker  
Yichao Dang

9:10 – 9:30 AM

**Charm and Bottom hadron production with a coalescence plus fragmentation hadronization approach: AA system size scan down to pp collisions**Speaker  
Prof. Salvatore Plumari

9:30 – 9:50 AM

**Investigation of charm-quark hadronisation into baryons in hadronic collisions with ALICE**Speaker  
JaeYoon Cho

9:50 – 10:10 AM

**Investigating Bottom Quark Energy Loss, Hadronization, and  $\mathbf{B}$  Meson Nuclear Modification Factors in  $\mathbf{B}^+$  and  $\mathbf{B}_s^0$  Decays: Insights from CMS in pp, pPb, and PbPb Collisions**Speakers  
Jhovanny Andres Mejia Guisao, Jhovanny Andres Mejia Guisao

10:10 AM

10:40 AM

**Track2-HF&Q**

Session | Location: Palais de la Musique et des Congrès, Room Rome | Convener: Marianna Mazzilli

10:40 – 11:00 AM

**First  $\mathbf{D}^0 + \overline{\mathbf{D}^0}$  measurement in heavy-ion collisions at SPS energies with NA61/SHINE**Speaker  
Anastasia Merzlaya

11:00 – 11:20 AM

**The role of strangeness in heavy-quark hadronisation from small to large collision systems with ALICE**Speaker  
Mattia Faggin11:20 – 11:40 AM **Open heavy flavor production at LHCb**Speaker  
Jianqiao Wang

11:40 AM - 12:00 PM **A potential approach to the X(3872) thermal behaviour**

**Speaker**

Miguel Angel Escobedo Espinosa

12:00 - 12:20 PM **Flavor hierarchy of parton energy loss in quark-gluon plasma from a Bayesian analysis**

**Speaker**

Wen-Jing Xing

12:20 PM

2:00 PM

## Track2-HF&Q

Session | Location: Palais de la Musique et des Congrès, Room Rome | Convener: Roberta Araldi

2:00 - 2:20 PM **Quarkonium production in pp and heavy-ion collisions**

**Speaker**

Dr Taesoo Song

2:20 - 2:40 PM

**Quarkonium dynamics in the quantum Brownian regime with non-abelian quantum master equations**

**Speaker**

Stéphane Delorme

2:40 - 3:00 PM **Observation of double  $J/\psi$  production in pPb collisions with CMS**

**Speaker**

Stefanos Leontsinis

3:00 - 3:20 PM

**Investigating the interplay between initial hard processes and final-state effects measuring prompt and non-prompt  $J/\psi$  with ALICE**

**Speaker**

Maurice Coquet

3:20 - 3:40 PM **Detailed study of the production of  $\Upsilon$  mesons in PbPb collisions with CMS**

**Speaker**

Prabhat Ranjan Pujahari

3:40 - 4:00 PM **Recent conventional and exotic charmonia results from LHCb**

**Speaker**

Youen Kang

4:00 PM

4:30 PM

## Track2-HF&Q

Session | Location: Palais de la Musique et des Congrès, Room Rome | Convener: Prof. Zebo Tang

4:30 - 4:50 PM

**Simulating Charm Quarks in IP-Glasma Initial Stage and Quark-Gluon Plasma: A Hybrid Approach for charm quark phenomenology**

**Speaker**

Manu Kurian

4:50 - 5:10 PM

**Probing a new regime of ultra-dense gluonic matter using high-energy photons with the CMS experiment**

**Speaker**  
Pranjal Verma

5:10 – 5:30 PM

[\*] First measurement of heavy flavour femtoscopy using  $D^0$  mesons and charged hadrons in Au+Au collisions at  $\sqrt{s_{NN}} = 200\text{~GeV}$  by STAR

**Speaker**  
Priyanka Roy Chowdhury

5:30 – 5:50 PM

Examination of final-state effects in pPb collisions via measurements of the multiplicity dependence of charm hadron production with CMS

**Speaker**  
Austin Baty

5:50 – 6:10 PM

Study of charm quark and QGP medium interactions via  $\Lambda_c^+$  and  $D^0$  production and collective flow in the CMS

**Speaker**  
Soumik Chandra

6:10 PM

## Wed, June 5

8:30 AM

**Track2-HF&Q**

Session | Location: Palais de la Musique et des Congrès, Room Rome | Convener: Rachid Guernane, Rachid GUERNANE

8:30 – 8:50 AM

**Measurement of  $D^0$  Meson Tagged Jets in Au+Au Collisions at  $\sqrt{s_{NN}} = 200$  GeV**

Speaker

Ondřej Lomický

8:50 – 9:10 AM

**Study of charm fragmentation with charm meson and baryon angular correlation measurements with ALICE**

Speaker

Antonio Palasciano

9:10 – 9:30 AM

 **$R_{AA}$  and  $v_n$ : relativistic transport approach for charm and bottom toward a more solid phenomenological determination of  $D_s(T)$** 

Speaker

Maria Lucia Sambaturo

9:30 – 9:50 AM

**Forward rapidity elliptic flow measurements in PHENIX Au+Au collisions at 200 GeV**

Speaker

Luis Bichon III

10:10 AM

10:40 AM

**Track2-HF&Q**

Session | Location: Palais de la Musique et des Congrès, Room Rome | Convener: Antonio Uras

10:40 – 11:00 AM

 **$J/\psi$  photoproduction and polarization in peripheral Pb-Pb collisions with ALICE**

Speaker

Dukhishyam MALLICK

11:00 – 11:20 AM

**Study of charm and beauty production in hadronic collisions via muon measurements at forward rapidity with ALICE**

Speaker

Maolin Zhang

11:20 – 11:40 AM

**Heavy flavor production under a strong magnetic field**

Speaker

Shile Chen

11:40 AM – 12:00 PM

**Prospects for heavy flavor physics and commissioning of the tracking system in Run-24 with sPHENIX at RHIC**

Speaker

Huan Huang

12:00 - 12:20 PM

**Prospects for open heavy-flavour and quarkonium measurements with NA60+**

**Speaker**

Roberta Arnaldi

12:20 PM