

# **RBRC Workshop: Predictions for sPHENIX**

## **Report of Contributions**

Contribution ID: 1

Type: **not specified**

## Workshop Introduction & Welcome

*Wednesday, 20 July 2022 09:00 (10 minutes)*

**Presenter:** CONNORS, Megan (Georgia State University RBRC)

**Session Classification:** Wednesday Morning 1

Contribution ID: 2

Type: **not specified**

## **sPHENIX Overview**

*Wednesday, 20 July 2022 09:10 (25 minutes)*

**Presenter:** MCGINN, Christopher (University Colorado Boulder)

**Session Classification:** Wednesday Morning 1

Contribution ID: 3

Type: **not specified**

## LHC Jets

*Wednesday, 20 July 2022 09:35 (30 minutes)*

**Presenter:** HAVENER, LAURA (Columbia University)

**Session Classification:** Wednesday Morning 1

Contribution ID: 4

Type: **not specified**

## **JETSCAPE predictions for sPHENIX jet measurements**

*Wednesday, 20 July 2022 10:05 (30 minutes)*

**Presenter:** KUMAR, Amit (Wayne State University)

**Session Classification:** Wednesday Morning 1

Contribution ID: 8

Type: **not specified**

## Heavy Flavor at the LHC

*Wednesday, 20 July 2022 11:00 (30 minutes)*

**Presenter:** WANG, Jing

**Session Classification:** Wednesday Morning 2

Contribution ID: 9

Type: **not specified**

## **Recent Hard Probes Results and Prospects from the STAR Experiment**

*Wednesday, 20 July 2022 11:30 (30 minutes)*

**Presenter:** MA, Rongrong (Brookhaven National Laboratory)

**Session Classification:** Wednesday Morning 2

Contribution ID: **10**

Type: **not specified**

## **Discussion**

*Wednesday, 20 July 2022 12:00 (30 minutes)*

**Session Classification:** Wednesday Morning 2



Contribution ID: 11

Type: **not specified**

## **sPHENIX Jets**

*Wednesday, 20 July 2022 14:00 (25 minutes)*

**Presenter:** RINN, Timothy (Brookhaven National Laboratory)

**Session Classification:** Wednesday Afternoon 1

Contribution ID: 12

Type: **not specified**

## **Cone-size dependence of jet suppression from LHC to RHIC**

*Wednesday, 20 July 2022 14:25 (25 minutes)*

**Presenter:** PABLOS, Daniel (McGill)

**Session Classification:** Wednesday Afternoon 1

Contribution ID: 13

Type: **not specified**

## **Dynamically groomed jet radius in heavy-ion collisions: towards sPHENIX predictions**

*Wednesday, 20 July 2022 14:50 (25 minutes)*

**Presenter:** CAUCAL, Paul (Brookhaven National Laboratory)

**Session Classification:** Wednesday Afternoon 1

Contribution ID: 14

Type: **not specified**

## Discussion

*Wednesday, 20 July 2022 15:15 (15 minutes)*

**Session Classification:** Wednesday Afternoon 1

Contribution ID: 15

Type: **not specified**

## **Study in-medium transport and hadronization of heavy quarks using HF-tagged jets**

*Wednesday, 20 July 2022 16:00 (25 minutes)*

**Presenters:** KE, Weiyao (Los Alamos National Laboratory); Dr KE, Weiyao (Los Alamos National Laboratory)

**Session Classification:** Wednesday Afternoon 2

Contribution ID: 16

Type: **not specified**

## **Jet quenching and medium response at RHIC**

*Wednesday, 20 July 2022 16:25 (25 minutes)*

**Presenter:** WANG, Xin-Nian (Lawrence Berkeley National Laboratory)

**Session Classification:** Wednesday Afternoon 2

Contribution ID: 17

Type: **not specified**

## **Light and heavy flavor probes of dense QCD matter at sPHENIX**

*Wednesday, 20 July 2022 16:50 (25 minutes)*

**Presenter:** VITEV, Ivan (LANL)

**Session Classification:** Wednesday Afternoon 2

Contribution ID: **18**

Type: **not specified**

## **Discussion**

*Wednesday, 20 July 2022 17:15 (15 minutes)*

**Session Classification:** Wednesday Afternoon 2



Contribution ID: 19

Type: **not specified**

## **Jet Drift in Event-By-Event Heavy-Ion Collisions**

*Thursday, 21 July 2022 09:00 (25 minutes)*

**Presenter:** SIEVERT, Matthew (New Mexico State University)

**Session Classification:** Thursday Morning 1

Contribution ID: 20

Type: **not specified**

## **Probing the QGP with inclusive jets and their substructure**

*Thursday, 21 July 2022 09:25 (25 minutes)*

**Presenter:** RINGER, Felix (UC Berkeley/LBNL)

**Session Classification:** Thursday Morning 1

Contribution ID: 21

Type: **not specified**

## **Data-driven quark and gluon jet modification in heavy-ion collisions**

*Thursday, 21 July 2022 09:50 (25 minutes)*

**Presenter:** BREWER, Jasmine (CERN)

**Session Classification:** Thursday Morning 1

Contribution ID: 22

Type: **not specified**

## Discussion

*Thursday, 21 July 2022 10:15 (15 minutes)*

**Session Classification:** Thursday Morning 1

Contribution ID: 23

Type: **not specified**

## **Recoil free jet observables at sPHENIX**

*Thursday, 21 July 2022 11:00 (25 minutes)*

**Presenter:** Dr CHIEN, Yang-Ting (Georgia State University)

**Session Classification:** Thursday Morning 2

Contribution ID: 24

Type: **not specified**

# Thermalization of highly energetic partons in a QCD plasma

*Thursday, 21 July 2022 11:25 (25 minutes)*

**Presenter:** SOUDI, Ismail (Wayne State University)

**Session Classification:** Thursday Morning 2

Contribution ID: 25

Type: **not specified**

## **Measuring energy correlations on jets in heavy-ion collisions**

*Thursday, 21 July 2022 11:50 (25 minutes)*

**Presenter:** HOLGUIN, Jack

**Session Classification:** Thursday Morning 2

Contribution ID: 26

Type: **not specified**

## Discussion

*Thursday, 21 July 2022 12:15 (15 minutes)*

**Session Classification:** Thursday Morning 2



Contribution ID: 27

Type: **not specified**

## **Exploring b-physics at sPHENIX: Opinions on impactful measurements**

*Thursday, 21 July 2022 14:00 (25 minutes)*

**Presenter:** DEAN, Cameron (MIT)

**Session Classification:** Thursday Afternoon 1

Contribution ID: 28

Type: **not specified**

## Exploring QGP properties with high-pt heavy flavor

*Thursday, 21 July 2022 14:25 (25 minutes)*

**Presenter:** DJORDJEVIC, Magdalena (Institute of Physics Belgrade)

**Session Classification:** Thursday Afternoon 1

Contribution ID: 29

Type: **not specified**

## HQ on Lattice

*Thursday, 21 July 2022 14:50 (25 minutes)*

**Presenter:** PETRECKZY, Peter Petreczky (BNL)

**Session Classification:** Thursday Afternoon 1

Contribution ID: **30**

Type: **not specified**

## Discussion

*Thursday, 21 July 2022 15:15 (15 minutes)*

**Session Classification:** Thursday Afternoon 1

Contribution ID: 31

Type: **not specified**

## Quarkonia physics in sPHENIX

*Thursday, 21 July 2022 16:00 (25 minutes)*

**Presenters:** ROSATI, Marzia (Iowa State University); ROSATI, Marzia (faculty@iastate.edu;member@iastate.edu)

**Session Classification:** Thursday Afternoon 2

Contribution ID: 32

Type: **not specified**

## **Bottomonium suppression at RHIC and LHC**

*Thursday, 21 July 2022 16:25 (25 minutes)*

**Presenter:** STRICKLAND, Michael (Kent State University)

**Session Classification:** Thursday Afternoon 2

Contribution ID: 33

Type: **not specified**

## **Quarkonium suppression: a model for shadowing and medium effects**

*Thursday, 21 July 2022 16:50 (25 minutes)*

**Presenter:** ESCOBEDO ESPINOSA, Miguel Ángel (Instituto Galego de Física de Altas Enerxías (IGFAE))

**Session Classification:** Thursday Afternoon 2

Contribution ID: **34**

Type: **not specified**

## Discussion

*Thursday, 21 July 2022 17:15 (15 minutes)*

**Session Classification:** Thursday Afternoon 2



Contribution ID: 35

Type: **not specified**

## Bayesian Analysis in JETSCAPE

*Friday, 22 July 2022 09:00 (25 minutes)*

**Presenter:** EHLERS, Raymond (Oak Ridge National Lab)

**Session Classification:** Friday morning 1

Contribution ID: **36**

Type: **not specified**

## **cold QCD and spin measurements with sPHENIX**

*Friday, 22 July 2022 09:25 (25 minutes)*

**Presenter:** SEIDL, Ralf (RIKEN)

**Session Classification:** Friday morning 1

Contribution ID: 37

Type: **not specified**

## **Azimuthal angular correlation of jets from soft gluon radiation**

*Friday, 22 July 2022 09:50 (25 minutes)*

**Presenters:** HATTA, Yoshitaka (BNL); HATTA, Yoshitaka (Tsukuba)

**Session Classification:** Friday morning 1

Contribution ID: **38**

Type: **not specified**

## Discussion

*Friday, 22 July 2022 10:15 (15 minutes)*

**Session Classification:** Friday morning 1

Contribution ID: 39

Type: **not specified**

## **Jets for precision QCD and spin dynamics**

*Friday, 22 July 2022 13:30 (25 minutes)*

**Presenters:** KANG, Zhongbo (UCLA); KANG, Zhongbo (University of California Los Angeles)

**Session Classification:** Friday afternoon 1

Contribution ID: 40

Type: **not specified**

## **Jet and hadron nuclear modification factors**

*Friday, 22 July 2022 11:00 (25 minutes)*

**Presenter:** Dr MAZELIAUSKAS, Aleksas (CERN Theoretical Physics Department)

**Session Classification:** Friday morning 2

Contribution ID: 41

Type: **not specified**

## Discussion

*Friday, 22 July 2022 11:25 (10 minutes)*

**Session Classification:** Friday morning 2

Contribution ID: 42

Type: **not specified**

## **Opportunities for bulk physics measurements with sPHENIX**

*Friday, 22 July 2022 13:55 (25 minutes)*

**Presenter:** BELMONT, Ron (University of North Carolina Greensboro)

**Session Classification:** Friday afternoon 1



Contribution ID: 43

Type: **not specified**

## **Bulk observables in the sPHENIX era and the legacy of RHIC**

*Friday, 22 July 2022 14:20 (25 minutes)*

**Presenter:** GIACALONE, Giuliano (ITP - Universität Heidelberg)

**Session Classification:** Friday afternoon 1

Contribution ID: 44

Type: **not specified**

## **sPHENIX Tour**

*Friday, 22 July 2022 16:00 (1 hour)*