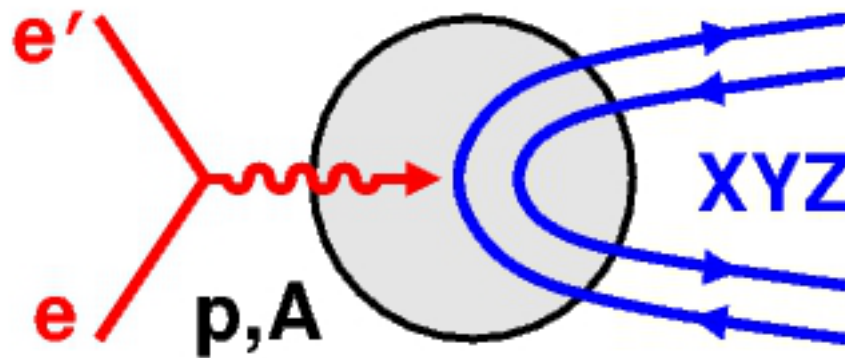


# Exotic heavy meson spectroscopy and structure with EIC



## Report of Contributions

Contribution ID: 1

Type: **not specified**

## **Introduction and plan of workshop**

*Monday, 15 August 2022 09:00 (20 minutes)*

**Presenter:** ORGANIZERS

**Session Classification:** Exotic heavy mesons

Contribution ID: 2

Type: **not specified**

## **CMS results and plans**

*Monday, 15 August 2022 10:40 (30 minutes)*

**Presenter:** POMPILI, Alexis (University of Bari & INFN Bari)

**Session Classification:** Exotic heavy mesons

Contribution ID: 3

Type: **not specified**

## LHCb results and plans

*Monday, 15 August 2022 09:50 (30 minutes)*

**Presenter:** MIKHASENKO, Mikhail (ORIGINS Excellence Cluster, Munich, Germany)

**Session Classification:** Exotic heavy mesons

Contribution ID: 4

Type: **not specified**

## **BESIII results and plans**

*Monday, 15 August 2022 11:10 (30 minutes)*

**Presenter:** MEZZADRI, Giulio (INFN Ferrara)

**Session Classification:** Exotic heavy mesons

Contribution ID: 5

Type: **not specified**

## **COMPASS results and plans / Partial-wave analysis**

*Monday, 15 August 2022 09:20 (30 minutes)*

**Presenter:** GRUBE, Boris (Jefferson Lab)

**Session Classification:** Exotic heavy mesons

Contribution ID: 6

Type: **not specified**

## **GlueX pentaquark / JLab 24 GeV plans**

*Monday, 15 August 2022 12:10 (30 minutes)*

**Presenter:** DOBBS, Sean (Florida State University)

**Session Classification:** Exotic heavy mesons

Contribution ID: 7

Type: **not specified**

## **Discussion: Prospects for exotic meson/baryon spectroscopy and role of EIC**

*Monday, 15 August 2022 13:00 (1 hour)*

**Presenter:** ALL

**Session Classification:** Exotic heavy mesons



Contribution ID: 8

Type: **not specified**

## Introduction

*Tuesday, 16 August 2022 09:00 (10 minutes)*

**Primary author:** HILLER BLIN, Astrid (Thomas Jefferson National Accelerator Facility)

**Presenter:** HILLER BLIN, Astrid (Thomas Jefferson National Accelerator Facility)

**Session Classification:** Exotic heavy mesons

Contribution ID: 9

Type: **not specified**

## **Semi-inclusive XYZ photoproduction**

*Tuesday, 16 August 2022 09:10 (30 minutes)*

**Presenter:** WINNEY, Daniel (Indiana University)

**Session Classification:** Exotic heavy mesons

Contribution ID: **10**

Type: **not specified**

## **XYZ production estimates**

*Tuesday, 16 August 2022 09:40 (30 minutes)*

**Presenter:** GUO, Feng-Kun (ITP, CAS)

**Session Classification:** Exotic heavy mesons

Contribution ID: 11

Type: **not specified**

## Double Regge mechanism at GlueX

*Tuesday, 16 August 2022 10:10 (30 minutes)*

**Presenter:** MATHIEU, Vincent (University of Barcelona)

**Session Classification:** Exotic heavy mesons

Contribution ID: 12

Type: **not specified**

## Quarkonium production at EIC

*Monday, 15 August 2022 14:00 (20 minutes)*

**Presenter:** XIE, Keping (University of Pittsburgh)

**Session Classification:** Exotic heavy mesons

Contribution ID: 13

Type: **not specified**

## Hidden charm pentaquarks

*Tuesday, 16 August 2022 11:00 (20 minutes)*

**Presenter:** SILVA-CASTRO, Jorge (UNAM)

**Session Classification:** Exotic heavy mesons

Contribution ID: 14

Type: **not specified**

## **Photoproduction of exotics in ultraperipheral collisions**

*Tuesday, 16 August 2022 11:20 (30 minutes)*

**Presenter:** Dr SCHAEFER, Wolfgang (Institute of Nuclear Physics PAN, Krakow, Poland)

**Session Classification:** Exotic heavy mesons

Contribution ID: 15

Type: **not specified**

## **X(3872) production**

*Tuesday, 16 August 2022 11:50 (30 minutes)*

**Presenter:** BRAATEN, Eric (Ohio State University)

**Session Classification:** Exotic heavy mesons



Contribution ID: 16

Type: **not specified**

## **Discussion: Mechanisms of exotic heavy meson/baryon production**

*Tuesday, 16 August 2022 12:40 (1h 20m)*

**Session Classification:** Exotic heavy mesons

Contribution ID: 17

Type: **not specified**

## Introduction

*Wednesday, 17 August 2022 09:00 (10 minutes)*

**Presenter:** WEISS, Christian (Jefferson Lab)

**Session Classification:** Exotic heavy mesons

Contribution ID: **18**

Type: **not specified**

## **Production and polarization of S-wave quarkonium in potential NRQCD**

*Wednesday, 17 August 2022 09:10 (30 minutes)*

**Presenter:** WANG, Xianpeng (Technical University Munich)

**Session Classification:** Exotic heavy mesons

Contribution ID: 19

Type: **not specified**

## **Nonrelativistic effective field theories for XYZ states**

*Wednesday, 17 August 2022 09:40 (30 minutes)*

**Presenter:** BRAMBILLA, Nora (Technical University Munich)

**Session Classification:** Exotic heavy mesons

Contribution ID: 20

Type: **not specified**

## **Exotic and conventional quarkonia in medium and implications for the EIC**

*Wednesday, 17 August 2022 10:10 (30 minutes)*

**Presenter:** DURHAM, Matt (Los Alamos National Laboratory)

**Session Classification:** Exotic heavy mesons

Contribution ID: 21

Type: **not specified**

## **Bound states in 3-body scattering formalism**

*Wednesday, 17 August 2022 11:00 (20 minutes)*

**Presenter:** DAWID, Sebastian (Indiana University)

**Session Classification:** Exotic heavy mesons

Contribution ID: 22

Type: **not specified**

## **Coulomb gauge QCD on the lattice**

*Wednesday, 17 August 2022 11:20 (20 minutes)*

**Presenter:** SMITH, Wyatt (Indiana University)

**Session Classification:** Exotic heavy mesons

Contribution ID: 23

Type: **not specified**

## Multiquark states

*Wednesday, 17 August 2022 11:40 (30 minutes)*

**Presenter:** SANTOPINTO, Elena (INFN Genoa)

**Session Classification:** Exotic heavy mesons



Contribution ID: 24

Type: **not specified**

## Unifying Diquark and Molecular Models for Exotics

*Wednesday, 17 August 2022 12:10 (30 minutes)*

**Presenter:** LEBED, Richard (Arizona State University)

**Session Classification:** Exotic heavy mesons

Contribution ID: 25

Type: **not specified**

## **Discussion: Structure of exotic hadrons**

*Wednesday, 17 August 2022 13:00 (1 hour)*

**Presenter:** ALL

**Session Classification:** Exotic heavy mesons

Contribution ID: 26

Type: **not specified**

## Introduction

*Thursday, 18 August 2022 09:00 (10 minutes)*

**Presenters:** GLAZIER, Derek; HUANG, Jin (Brookhaven National Lab); STEVENS, Justin (William & Mary)

**Session Classification:** Exotic heavy mesons

Contribution ID: 27

Type: **not specified**

## **EPIC detector overview**

*Thursday, 18 August 2022 09:10 (30 minutes)*

**Presenter:** SURROW, Bernd (Temple University)

**Session Classification:** Exotic heavy mesons

Contribution ID: 28

Type: **not specified**

## **EIC quarkonium production simulations**

*Thursday, 18 August 2022 09:40 (30 minutes)*

**Presenter:** Prof. ZHA, wangmei (USTC)

**Session Classification:** Exotic heavy mesons

Contribution ID: 29

Type: **not specified**

## **EIC XYZ production simulations**

*Thursday, 18 August 2022 10:10 (30 minutes)*

**Presenter:** GLAZIER, Derek

**Session Classification:** Exotic heavy mesons

Contribution ID: **30**

Type: **not specified**

## Tracking with EIC detector

*Thursday, 18 August 2022 11:00 (20 minutes)*

**Presenter:** Dr LI, Xuan (Los Alamos National Laboratory)

**Session Classification:** Exotic heavy mesons

Contribution ID: 31

Type: **not specified**

## **Exclusive physics with muons at EIC**

*Thursday, 18 August 2022 11:20 (20 minutes)*

**Presenter:** BOER, Marie

**Session Classification:** Exotic heavy mesons



Contribution ID: 32

Type: **not specified**

## Far-forward ion detection at EIC

*Thursday, 18 August 2022 11:40 (20 minutes)*

**Presenter:** JENTSCH, Alexander (Brookhaven National Laboratory)

**Session Classification:** Exotic heavy mesons

Contribution ID: 33

Type: **not specified**

## **Low-Q2 tagger and photoproduction at EIC**

*Thursday, 18 August 2022 12:00 (20 minutes)*

**Presenter:** Dr GARDNER, Simon (member@gla.ac.uk;staff@gla.ac.uk)

**Session Classification:** Exotic heavy mesons

Contribution ID: 34

Type: **not specified**

## AI/ML Heavy Flavor trigger at EIC

*Thursday, 18 August 2022 12:20 (20 minutes)*

**Presenter:** SHI, Zhaozhong (Los Alamos National Laboratory)

**Session Classification:** Exotic heavy mesons

Contribution ID: 35

Type: **not specified**

## Discussion

*Thursday, 18 August 2022 13:00 (1 hour)*

**Presenter:** ALL

**Session Classification:** Exotic heavy mesons

Contribution ID: **36**

Type: **not specified**

## **BELLEII results and plans**

*Monday, 15 August 2022 11:40 (30 minutes)*

**Presenter:** FULSOM, Bryan (Pacific Northwest National Laboratory)

**Session Classification:** Exotic heavy mesons

Contribution ID: 37

Type: **not specified**

## Day\_1\_recording

*Monday, 15 August 2022 14:20 (30 minutes)*

**Presenter:** LI, Wenliang (Stony Brook University CFNS)

**Session Classification:** Exotic heavy mesons

Contribution ID: **38**

Type: **not specified**

## **Day 2 Recording**

*Tuesday, 16 August 2022 14:00 (30 minutes)*

**Session Classification:** Exotic heavy mesons

Contribution ID: **39**

Type: **not specified**

## **Day 3 Recording**

*Wednesday, 17 August 2022 14:00 (30 minutes)*

**Session Classification:** Exotic heavy mesons



Contribution ID: 40

Type: **not specified**

## Day 4 Recording

*Thursday, 18 August 2022 14:00 (20 minutes)*

**Session Classification:** Exotic heavy mesons