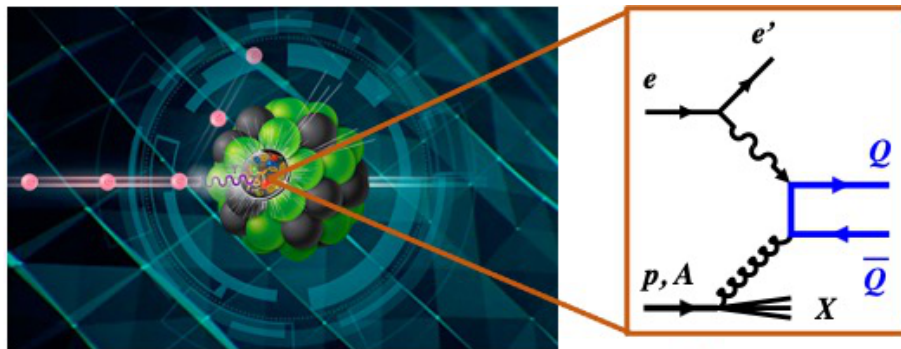


# Opportunities with Heavy Flavor at the EIC - a CFNS Ad hoc Workshop



**Opportunities with Heavy Flavor at the EIC**



## Report of Contributions

Contribution ID: 1

Type: **not specified**

## Overview of heavy flavor production in DIS

*Wednesday, 4 November 2020 10:00 (40 minutes)*

**Presenter:** Prof. THORNE, Robert (University College London)

**Session Classification:** HF@EIC

Contribution ID: 2

Type: **not specified**

## Lessons from HERA

*Wednesday, 4 November 2020 10:40 (30 minutes)*

**Presenter:** Dr GEISER, Achim (DESY)

**Session Classification:** HF@EIC

Contribution ID: 3

Type: **not specified**

## **Flavor number schemes, evaluation and PDF extraction**

*Wednesday, 4 November 2020 13:40 (30 minutes)*

**Presenter:** Dr MOCH, Sven-Olaf (DESY)

**Session Classification:** HF@EIC

Contribution ID: 4

Type: **not specified**

## Heavy flavor and PDF analysis

*Wednesday, 4 November 2020 12:05 (30 minutes)*

**Presenter:** Prof. NADOLSKY, Pavel (Southern Methodist University)

**Session Classification:** HF@EIC

Contribution ID: 5

Type: **not specified**

## Charge current reactions and strangeness

*Wednesday, 4 November 2020 11:10 (30 minutes)*

**Presenter:** Prof. SEKULA, Stephen (SMU)

**Session Classification:** HF@EIC

Opportunities wi... / Report of Contributions

open

Contribution ID: 6

Type: **not specified**

**open**

**Session Classification:** HF@EIC

Contribution ID: 7

Type: **not specified**

## **Heavy-flavor production with high-precision: NNLO QCD lessons from top production at hadron colliders**

*Wednesday, 4 November 2020 14:10 (30 minutes)*

**Presenter:** Prof. MITOV, Alexander (Cambridge U.)

**Session Classification:** HF@EIC



Contribution ID: 8

Type: **not specified**

## Constraints on heavy flavor PDFs from LHC

*Wednesday, 4 November 2020 12:35 (30 minutes)*

**Presenter:** Prof. ROJO, Juan (VU Amsterdam)

**Session Classification:** HF@EIC

Contribution ID: 9

Type: **not specified**

## Discussion

*Wednesday, 4 November 2020 14:40 (50 minutes)*

**Session Classification:** HF@EIC

Contribution ID: **10**

Type: **not specified**

## Welcome

*Wednesday, 4 November 2020 09:50 (10 minutes)*

**Presenters:** WEISS, Christian (Jefferson Lab); OLNESS, Fredrick (SMU); VITEV, Ivan (LANL); HUANG, Jin (Brookhaven National Lab); LI, Xuan (Los Alamos National Laboratory)

**Session Classification:** Welcome

Contribution ID: 14

Type: **not specified**

## **Overview of heavy flavor production in hadronic collisions - RHIC/LHC**

**Presenter:** EVDOKIMOV, Olga (UIC)

Contribution ID: 15

Type: **not specified**

## **Overview of heavy flavor production in hadronic collisions - RHIC/LHC**

*Thursday, 5 November 2020 10:00 (40 minutes)*

**Presenter:** EVDOKIMOV, Olga (UIC)

**Session Classification:** HF@EIC

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Open

Contribution ID: **16**

Type: **not specified**

**Open**

**Session Classification:** HF@EIC

Contribution ID: 17

Type: **not specified**

## Overview of heavy flavor final-state interactions

*Thursday, 5 November 2020 12:05 (40 minutes)*

**Presenter:** GRECO, V.

**Session Classification:** HF@EIC

Contribution ID: **18**

Type: **not specified**

## **Fragmentation into heavy flavor**

*Thursday, 5 November 2020 10:40 (30 minutes)*

**Presenter:** SCHIENBEIN, Ingo

**Session Classification:** HF@EIC



Contribution ID: 19

Type: **not specified**

## Heavy meson production at the EIC

*Thursday, 5 November 2020 12:45 (30 minutes)*

**Presenter:** LIU, Zelong (LANL)

**Session Classification:** HF@EIC

Contribution ID: 20

Type: **not specified**

## **Quarkonium production and interactions in matter**

*Thursday, 5 November 2020 14:00 (30 minutes)*

**Presenter:** MAKRIS, Yiannis (INFN PAVIA)

**Session Classification:** HF@EIC

Contribution ID: 21

Type: **not specified**

## **Gluon Sivers via HF**

*Thursday, 5 November 2020 11:10 (30 minutes)*

**Presenter:** ASCHENAUER, Elke

**Session Classification:** HF@EIC

Contribution ID: 22

Type: **not specified**

## **Light flavor suppression in DIS and recent CLAS results**

*Thursday, 5 November 2020 13:15 (30 minutes)*

**Presenter:** BROOKS, William (Universidad Técnica Federico Santa María)

**Session Classification:** HF@EIC

Contribution ID: 23

Type: **not specified**

## **Additional Discussions**

*Thursday, 5 November 2020 15:00 (50 minutes)*

All

**Session Classification:** HF@EIC

Contribution ID: 24

Type: **not specified**

## **Overview of collider silicon technology for Heavy Flavor programs**

*Friday, 6 November 2020 10:00 (40 minutes)*

**Presenter:** HABER, Carl (Lawrence Berkeley National Laboratory)

**Session Classification:** HF@EIC

Contribution ID: 25

Type: **not specified**

## **EIC Silicon tracking in the forward direction and physics studies**

*Friday, 6 November 2020 12:10 (30 minutes)*

**Presenter:** WONG, Cheuk-Ping (LANL)

**Session Classification:** HF@EIC

Contribution ID: 26

Type: **not specified**

## **EIC All silicon tracker and physics studies**

*Friday, 6 November 2020 12:40 (30 minutes)*

**Presenter:** DONG, Xin (Lawrence Berkeley National Laboratory)

**Session Classification:** HF@EIC



Contribution ID: 27

Type: **not specified**

## **EIC Micro pattern gas detector and physics studies**

*Friday, 6 November 2020 13:10 (30 minutes)*

**Presenter:** POSIK, Matt (Temple University)

**Session Classification:** HF@EIC

Contribution ID: 28

Type: **not specified**

## **EIC generic detector requirements for HF studies**

*Friday, 6 November 2020 11:10 (30 minutes)*

**Presenter:** FURLETOVA, Yulia (Jefferson Lab)

**Session Classification:** HF@EIC

Contribution ID: 29

Type: **not specified**

## **Ultra-fast silicon tracker developments for the EIC**

**Presenter:** MEZIANI, Zein-Eddine (Temple University)

**Session Classification:** HF@EIC

Contribution ID: **30**

Type: **not specified**

## **sPHENIX heavy flavor program and a path to the EIC**

*Friday, 6 November 2020 10:40 (30 minutes)*

**Presenter:** MORRISON, David (BNL)

**Session Classification:** HF@EIC

Contribution ID: **31**

Type: **not specified**

## **Electroweak and BSM physics with the EIC**

*Friday, 6 November 2020 13:50 (30 minutes)*

**Presenter:** GAL, Ciprian (Stony Brook University)

**Session Classification:** HF@EIC

Contribution ID: 32

Type: **not specified**

## **Topical discussions: (1) Questions left of the day. (2) simulation tools for the EIC detector developments**

*Friday, 6 November 2020 14:35 (50 minutes)*

**Presenter:** PINKENBURG, Chris (BNL)

**Session Classification:** HF@EIC

Contribution ID: 33

Type: **not specified**

## Constraints on nuclear gluons

*Wednesday, 4 November 2020 13:05 (30 minutes)*

**Presenter:** GUZEY, Vadim (Petersburg Nuclear Physics Institute)

**Session Classification:** HF@EIC

Contribution ID: 34

Type: **not specified**

## Overview of heavy quark exotics

*Thursday, 5 November 2020 14:30 (30 minutes)*

**Presenter:** Prof. SKWARNICKI, Tomasz (Syracuse U.)

**Session Classification:** HF@EIC



Contribution ID: 35

Type: **not specified**

## **Gluon helicity impact from HF tagged DIS**

*Friday, 6 November 2020 14:20 (15 minutes)*

**Presenter:** Dr ZHAO, Yuxiang (Institute of Modern Physics, Chinese Academy of Sciences)

**Session Classification:** HF@EIC