

**New jet quenching tools to  
explore equilibrium and  
non-equilibrium dynamics in  
heavy-ion collisions**

**Report of Contributions**

Contribution ID: 1

Type: **not specified**

## **The Cook, the Thief, His Wife & Her Lover**

*Monday, 12 February 2024 09:00 (30 minutes)*

**Presenter:** MILHANO, Guilherme (LIP & IST)

**Session Classification:** Talks: 1

Contribution ID: 2

Type: **not specified**

## **Scans of the Lund plane in heavy ion collisions, what I think we've learned**

*Monday, 12 February 2024 09:30 (30 minutes)*

**Presenter:** CUNQUEIRO, Leticia (Rome Sapienza University)

**Session Classification:** Talks: 1

Contribution ID: 3

Type: **not specified**

## **Jet quenching and medium response measurements using electroweak bosons**

*Monday, 12 February 2024 14:00 (30 minutes)*

**Presenter:** GO, Yeonju (Brookhaven National Laboratory)

**Session Classification:** Talks: 2

Contribution ID: 4

Type: **not specified**

## **Search for single hard scattering signatures using substructure observables**

*Monday, 12 February 2024 14:30 (30 minutes)*

**Presenter:** CAUCAL, Paul (Subatech)

**Session Classification:** Talks: 2

Contribution ID: 5

Type: **not specified**

## **A New Angle on Visualizing Jet (and) Wake Substructure**

*Monday, 12 February 2024 15:30 (30 minutes)*

**Presenter:** RAJAGOPAL, Krishna (MIT)

**Session Classification:** Talks: 3

Contribution ID: 6

Type: **not specified**

## **Jet suppression and $v_2$ : Predictions for energy-, centrality- and R-dependence**

*Wednesday, 14 February 2024 14:00 (30 minutes)*

**Presenter:** TYWONIUK, Konrad (University of Bergen)

**Session Classification:** Talks: 10

Contribution ID: 7

Type: **not specified**

## **On the theory interpretation of upcoming energy-energy correlators measurements**

*Tuesday, 13 February 2024 14:30 (30 minutes)*

**Presenter:** SOTO ONTOSO, Alba

**Session Classification:** Talks: 6



Contribution ID: 8

Type: **not specified**

## **Energy-energy correlators at the LHC and EIC**

*Tuesday, 13 February 2024 09:30 (30 minutes)*

**Presenter:** JACAK, Barbara (University of California, Berkeley and Lawrence Berkeley Lab)

**Session Classification:** Talks: 4

Contribution ID: 9

Type: **not specified**

## **Imaging the Wake of a Jet with Energy Correlators**

*Tuesday, 13 February 2024 10:30 (30 minutes)*

**Presenter:** BOSSI, Hannah (MIT)

**Session Classification:** Talks: 5

Contribution ID: **10**

Type: **not specified**

## **Energy correlations: from pp to AA collisions**

*Tuesday, 13 February 2024 09:00 (30 minutes)*

**Presenter:** HOLGUIN, Jack (The University of Manchester)

**Session Classification:** Talks: 4

Contribution ID: 11

Type: **not specified**

## **On connections between Lund Plane and energy-energy correlators**

*Tuesday, 13 February 2024 14:00 (30 minutes)*

**Presenter:** PLOSKON, Mateusz (Lawrence Berkeley National Laboratory)

**Session Classification:** Talks: 6

Contribution ID: 12

Type: **not specified**

## **Recent advances in the calculation of two-point energy correlators in heavy ion collisions**

*Tuesday, 13 February 2024 11:00 (30 minutes)*

**Presenter:** DOMINGUEZ, Fabio (IGFAE, Universidade de Santiago de Compostela)

**Session Classification:** Talks: 5

Contribution ID: 13

Type: **not specified**

## **Constraining QGP properties through the DREENA framework with Bayesian inference**

*Monday, 12 February 2024 16:00 (30 minutes)*

**Presenter:** DJORDJEVIC, Magdalena

**Session Classification:** Talks: 3

Contribution ID: 14

Type: **not specified**

## **How to make valid comparisons between data and models**

*Tuesday, 13 February 2024 16:00 (30 minutes)*

**Presenter:** NATTRASS, Christine (University of Tennessee, Knoxville)

**Session Classification:** Talks: 7

Contribution ID: 15

Type: **not specified**

## **Anisotropic Jet Broadening and the RAA vs $v_2$ Puzzle**

*Wednesday, 14 February 2024 09:00 (30 minutes)*

**Presenter:** BAHDER, Joseph (New Mexico State University)

**Session Classification:** Talks: 8



Contribution ID: 16

Type: **not specified**

## **Polarization of jet partons in an anisotropic plasma**

*Wednesday, 14 February 2024 09:30 (30 minutes)*

**Presenter:** HAUKSSON, Sigtryggur (IPhT, CEA, Université Paris-Saclay)

**Session Classification:** Talks: 8

Contribution ID: 17

Type: **not specified**

## **The effect of medium flow and anisotropy on jet quenching**

*Wednesday, 14 February 2024 10:00 (30 minutes)*

**Presenter:** MAYO LÓPEZ, Xoán (Universidade de Santiago de Compostela - IGFAE)

**Session Classification:** Talks: 8

Contribution ID: **18**

Type: **not specified**

## **Factorization of QCD jet cross sections in heavy-ion collisions at lowest order**

*Wednesday, 14 February 2024 16:00 (30 minutes)*

**Presenter:** COUGOULIC, Florian (University of Santiago de Compostela, IGFAE)

**Session Classification:** Talks: 11

Contribution ID: 19

Type: **not specified**

## Jet quenching parameter during the initial stages

*Wednesday, 14 February 2024 11:00 (30 minutes)*

**Presenter:** LINDENBAUER, Florian (TU Wien)

**Session Classification:** Talks: 9

Contribution ID: 20

Type: **not specified**

## Energy Loss in Chiral Media

*Wednesday, 14 February 2024 11:30 (30 minutes)*

**Presenter:** HANSEN, jeremy (Iowa State University)

**Session Classification:** Talks: 9

Contribution ID: 21

Type: **not specified**

## **Jet transport in the Glasma using colored particle-in-cell simulations**

*Wednesday, 14 February 2024 12:00 (30 minutes)*

**Presenter:** AVRAMESCU, Dana (University of Jyväskylä)

**Session Classification:** Talks: 9

Contribution ID: 22

Type: **not specified**

## **Measurements of Energy correlators in $e+e^-$ , pp and PbPb collisions with CMS and ALEPH data**

*Tuesday, 13 February 2024 15:30 (30 minutes)*

**Presenter:** LEE, Yen-Jie (MIT, United States)

**Session Classification:** Talks: 7

Contribution ID: 23

Type: **not specified**

## **Classical and quantum corrections in jet quenching**

*Wednesday, 14 February 2024 15:30 (30 minutes)*

**Presenter:** GHIGLIERI, Jacopo (SUBATECH, Nantes)

**Session Classification:** Talks: 11



Contribution ID: 24

Type: **not specified**

## QGP Physics from Attractor Perturbations

*Friday, 16 February 2024 09:30 (30 minutes)*

**Presenter:** AN, Xin (NCBJ)

**Session Classification:** Talks: 16

Contribution ID: 25

Type: **not specified**

## **Attractor behavior of pre-equilibrium transport coefficients**

*Thursday, 15 February 2024 09:00 (30 minutes)*

**Presenter:** LAPPI, Tuomas (University of Jyväskylä, Jyväskylä/Fi)

**Session Classification:** Talks: 12

Contribution ID: 26

Type: **not specified**

## **Mini-jet quenching in non-equilibrium QGP**

*Thursday, 15 February 2024 09:30 (30 minutes)*

**Presenter:** MAZELIAUSKAS, Aleksas (Heidelberg University)

**Session Classification:** Talks: 12

Contribution ID: 27

Type: **not specified**

## **Effective field theory approach to light and heavy quenching in a thin medium**

*Thursday, 15 February 2024 10:30 (30 minutes)*

**Presenter:** KE, Weiyao (Central China Normal University)

**Session Classification:** Talks: 13

Contribution ID: 28

Type: **not specified**

## **Heavy quark drag and diffusion coefficients in the pre-hydrodynamic QCD plasma**

*Thursday, 15 February 2024 11:00 (30 minutes)*

**Presenter:** DU, Xiaojian (IGFAE)

**Session Classification:** Talks: 13

Contribution ID: 29

Type: **not specified**

## Evolution of QCD jets in non-equilibrium plasma

*Thursday, 15 February 2024 14:00 (30 minutes)*

**Presenter:** BARRERA CABODEVILA, Sergio (Instituto Galego de Física de Altas Enerxías - Universidade de Santiago de Compostela)

**Session Classification:** Talks: 14

Contribution ID: **30**

Type: **not specified**

## **New developments in hydro theory and nuclear collisions**

*Friday, 16 February 2024 09:00 (30 minutes)*

**Presenter:** HELLER, Michal (Ghent University)

**Session Classification:** Talks: 16

Contribution ID: 31

Type: **not specified**

## **Parton Showers at DLA: Role of the Evolution Variable**

*Thursday, 15 February 2024 15:30 (30 minutes)*

**Presenter:** CORDEIRO, André (LIP-Lisbon)

**Session Classification:** Talks: 15



Contribution ID: 32

Type: **not specified**

## **Exploring the time axis within medium-modified jets**

*Thursday, 15 February 2024 16:00 (30 minutes)*

**Presenter:** GUERRERO-RODRÍGUEZ, Pablo (LIP)

**Session Classification:** Talks: 15

Contribution ID: 33

Type: **not specified**

## **Studying small systems using a multi-stage approach**

*Wednesday, 14 February 2024 14:30 (30 minutes)*

**Presenter:** SOUDI, ismail

**Session Classification:** Talks: 10

Contribution ID: 34

Type: **not specified**

## Quenching of polarized jets

*Thursday, 15 February 2024 14:30 (30 minutes)*

**Presenter:** WEI, Shu-yi (Shandong University)

**Session Classification:** Talks: 14

Contribution ID: 35

Type: **not specified**

## Unbiased quantification of jet energy loss

*Friday, 16 February 2024 10:00 (30 minutes)*

**Presenter:** SILVA, João (LIP-Lisbon / USC - IGFAE)

**Session Classification:** Talks: 16

Contribution ID: 36

Type: **not specified**

## **Flavour correlations dependence on jet substructure**

*Friday, 16 February 2024 11:00 (30 minutes)*

**Presenter:** MADUREIRA, Nuno Olavo (Laboratório de Instrumentação e Física Experimental de Partículas)

**Session Classification:** Talks: 17

Contribution ID: 37

Type: **not specified**

## Apples to Apples in Jet Quenching

*Friday, 16 February 2024 11:30 (30 minutes)*

**Presenter:** A. GONÇALVES, João (LIP - Lisbon / U. Lisboa)

**Session Classification:** Talks: 17

Contribution ID: **38**

Type: **not specified**

## **Virtuality evolution of jets in a QCD medium**

*Friday, 16 February 2024 12:00 (30 minutes)*

**Presenter:** Mr LAMAS RODRÍGUEZ, Carlos (IGFAE-USC)

**Session Classification:** Talks: 17

Contribution ID: 39

Type: **not specified**

## **A survey of jet substructure observables for jet quenching**

*Monday, 12 February 2024 10:30 (30 minutes)*

**Presenter:** BUDHRAJA, Ankita (NIKHEF)

**Session Classification:** STRONG2020 NA3-Jet-QGP Session



Contribution ID: 40

Type: **not specified**

## Observables

*Monday, 12 February 2024 11:00 (5 minutes)*

**Presenter:** SOTO ONTOSO, Alba

**Session Classification:** STRONG2020 NA3-Jet-QGP Session

Contribution ID: 41

Type: **not specified**

## Discussion

*Monday, 12 February 2024 11:35 (55 minutes)*

**Session Classification:** STRONG2020 NA3-Jet-QGP Session

Contribution ID: 42

Type: **not specified**

## Observables

*Monday, 12 February 2024 11:05 (5 minutes)*

**Presenter:** BOSSI, Hannah (MIT)

**Session Classification:** STRONG2020 NA3-Jet-QGP Session

Contribution ID: 43

Type: **not specified**

## Observables

*Monday, 12 February 2024 11:10 (5 minutes)*

**Presenter:** HOLGUIN, Jack (The University of Manchester)

**Session Classification:** STRONG2020 NA3-Jet-QGP Session

Contribution ID: 44

Type: **not specified**

## Observables

*Monday, 12 February 2024 11:15 (5 minutes)*

**Presenter:** TYWONIUK, Konrad (University of Bergen)

**Session Classification:** STRONG2020 NA3-Jet-QGP Session

Contribution ID: 45

Type: **not specified**

## Observables

*Monday, 12 February 2024 11:20 (5 minutes)*

**Presenter:** CUNQUEIRO, Leticia (Rome Sapienza University)

**Session Classification:** STRONG2020 NA3-Jet-QGP Session

Contribution ID: 46

Type: **not specified**

## Observables

*Monday, 12 February 2024 11:30 (5 minutes)*

**Presenter:** LEE, Yen-Jie (MIT, United States)

**Session Classification:** STRONG2020 NA3-Jet-QGP Session

Contribution ID: 47

Type: **not specified**

## Observables

*Monday, 12 February 2024 11:25 (5 minutes)*

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

**Session Classification:** STRONG2020 NA3-Jet-QGP Session