

First Lund Jet Plane Institute

Report of Contributions

Contribution ID: 1

Type: **not specified**

Introduction

Monday, 3 July 2023 14:00 (15 minutes)

Presenters: D'ENTERRIA, David (CERN); SOYEZ, Gregory (IPhT, CEA Saclay)

Contribution ID: 2

Type: **not specified**

A history of Lund diagrams and resumptions

Monday, 3 July 2023 14:15 (45 minutes)

Presenter: Prof. BANFI, Andrea (University of Sussex)

Contribution ID: 3

Type: **not specified**

Lund planes for parton-shower development

Wednesday, 5 July 2023 17:00 (30 minutes)

Presenter: DASGUPTA, Mrinal (Unknown)

Contribution ID: 4

Type: **not specified**

Measurements of the Lund jet plane and its properties (ATLAS)

Monday, 3 July 2023 17:30 (30 minutes)

Presenter: SMITH, Emily Ann (University of Chicago (US))

Contribution ID: 5

Type: **not specified**

Jets and Lund plane studies at LHCb

Monday, 3 July 2023 17:00 (30 minutes)

Presenter: AIDALA, Christine (University of Michigan (US))

Contribution ID: 6

Type: **not specified**

Exploiting the Lund plane to study jet splitting kinematics at RHIC energies (STAR)

Presenter: ROBOTKOVÁ, Monika (Nuclear Physics Institute, Czech Academy of Sciences)

Contribution ID: 7

Type: **not specified**

Discussion

Contribution ID: 8

Type: **not specified**

The Lund plane as a way to constrain the quark-gluon plasma

Tuesday, 4 July 2023 14:00 (30 minutes)

Presenter: TYWONIUK, Konrad (University of Bergen (NO))

Contribution ID: 9

Type: **not specified**

Studying jet shower modifications in the quark-gluon plasma using the Lund tree (CMS)

Tuesday, 4 July 2023 14:30 (30 minutes)

Presenter: Ms CHEN, Yi (Massachusetts Inst. of Technology (US))

Contribution ID: **10**

Type: **not specified**

Jet substructure measurements probing the Lund radiation plane in pp and Pb-Pb collisions (ALICE)

Tuesday, 4 July 2023 15:30 (30 minutes)

Presenter: EHLERS, Raymond (University of California Berkeley (US))

Contribution ID: 11

Type: **not specified**

Tracing heavy quark trajectories in pp and Pb-Pb collisions, including future challenges and opportunities (ALICE)

Tuesday, 4 July 2023 16:00 (30 minutes)

Presenter: ZARDOSHTI, Nima (CERN)

Contribution ID: 12

Type: **not specified**

Dead-cone searches in heavy-ion collisions using the jet tree

Tuesday, 4 July 2023 16:30 (30 minutes)

Presenter: CUNQUEIRO MENDEZ, Leticia (Roma Sapienza University)

Contribution ID: **13**

Type: **not specified**

Discussion

Tuesday, 4 July 2023 17:00 (1 hour)

Contribution ID: 14

Type: **not specified**

Jet substructure using the Lund tree in 13 TeV pp collisions (CMS)

Wednesday, 5 July 2023 16:00 (30 minutes)

Presenter: BALDENEGRO BARRERA, Cristian (Laboratoire Leprince-Ringuet)

Contribution ID: 15

Type: **not specified**

Counting jets in the Lund Plane

Monday, 3 July 2023 16:30 (30 minutes)

Presenter: SOTO ONTOSO, Alba (CERN)

Contribution ID: **16**

Type: **not specified**

Discussion

Wednesday, 5 July 2023 17:30 (30 minutes)

Contribution ID: 17

Type: **not specified**

Collider events on a quantum computer

Wednesday, 5 July 2023 15:30 (30 minutes)

Presenter: WILLIAMS, Simon (Imperial College London)

Contribution ID: **18**

Type: **not specified**

Jet tagging with the Lund jet plane (ATLAS)

Thursday, 6 July 2023 16:00 (30 minutes)

Presenter: SARDAIN, Jad Mathieu (University of Arizona (US))

Contribution ID: **19**

Type: **not specified**

Tagging using Lund plane variables

Thursday, 6 July 2023 15:30 (30 minutes)

Presenter: KHOSA, Charanjit Kaur

Contribution ID: **20**

Type: **not specified**

Discussion

Thursday, 6 July 2023 16:30 (1 hour)

Contribution ID: 21

Type: **not specified**

Breaking the q/g degeneracy in extractions of the strong coupling from jet substructure

Friday, 7 July 2023 14:00 (30 minutes)

Presenter: LEBLANC, Matt (University of Manchester (GB))

Contribution ID: 22

Type: **not specified**

Quark/gluon tagging using Lund Plane information

Friday, 7 July 2023 14:30 (30 minutes)

Presenter: SOYEZ, Gregory (IPhT, CEA Saclay)

Contribution ID: 23

Type: **not specified**

Closing

Friday, 7 July 2023 15:30 (10 minutes)

Presenters: SOTO ONTOSO, Alba (CERN); BALDENEGRO BARRERA, Cristian (Laboratoire Lepage-Ringuet); SOYEZ, Gregory (IPhT, CEA Saclay)

Contribution ID: 24

Type: **not specified**

Exploiting the Lund plane to study jet splitting kinematics at RHIC energies (STAR)

Wednesday, 5 July 2023 16:30 (30 minutes)

Presenter: ROBOTKOVÁ, Monika (Nuclear Physics Institute, Czech Academy of Sciences)

Contribution ID: 25

Type: **not specified**

Jet substructure at RHIC as a roadmap towards the EIC

Thursday, 6 July 2023 14:30 (30 minutes)

Presenter: KUNNAWALKAM ELAYAVALLI, Raghav (Vanderbilt University)