

**First COMETA workshop on
artificial intelligence for
multi-boson physics**

Report of Contributions

Contribution ID: 1

Type: **not specified**

Welcome and introduction

Tuesday 1 October 2024 09:00 (10 minutes)

Presenters: CAPPATI, Alessandra (Centre National de la Recherche Scientifique (FR)); DE ALMEIDA DIAS, Flavia (Nikhef National institute for subatomic physics (NL)); PRESILLA, Matteo (KIT - Karlsruhe Institute of Technology (DE))

Session Classification: Context

Contribution ID: 2

Type: **not specified**

Experimental aspects of jet flavor definition in ATLAS and CMS

Tuesday 1 October 2024 10:30 (1 hour)

Presenter: DI BELLO, Francesco Armando (INFN e Universita Genova (IT))

Session Classification: Context

Contribution ID: 3

Type: **not specified**

Experimental aspects of jet substructure technical definition in ATLAS and CMS

Tuesday 1 October 2024 11:30 (1 hour)

Presenters: SUNAR CERCI, Deniz (Yildiz Technical University (TR)); CAMPANELLI, Mario (UCL)

Session Classification: Context

Contribution ID: 4

Type: **not specified**

Theory aspects of jet & jet flavour definition

Tuesday 1 October 2024 09:10 (1 hour)

Presenter: CALETTI, Simone

Session Classification: Context

Contribution ID: 6

Type: **not specified**

Graph Convolutional Neural Networks for HEP

Tuesday 1 October 2024 14:00 (50 minutes)

Presenter: MAGNIETTE, Frederic (Centre National de la Recherche Scientifique (FR))

Session Classification: Tools

Contribution ID: 7

Type: **not specified**

Hands-on: open data session

Tuesday 1 October 2024 15:30 (2h 30m)

Presenters: LES, Robert (Michigan State University (US)); MCCAULEY, Thomas (University of Notre Dame (US))

Session Classification: Tools

Contribution ID: 8

Type: **not specified**

Panel and discussion: flavour tagging

Wednesday 2 October 2024 09:20 (40 minutes)

Discussion on current open problems and brainstorming on the best AI or classical tool to tackle them

Presenters: POTAMIANOS, Karolos (University of Warwick (GB)); Dr LETIZIA, Marco; NORJO-HARUDEEN, Nurfikri (Helsinki Institute of Physics (FI)); CROFT, Vincent Alexander (Nikhef National institute for subatomic physics (NL))

Session Classification: Planning

Contribution ID: 9

Type: **not specified**

Discussion on hackathon activities: timeline preparation

Session Classification: Planning

Contribution ID: **10**

Type: **not specified**

Discussion: future meetings, possibilities within COMETA (STSM, ..)

Wednesday 2 October 2024 09:00 (20 minutes)

Presenters: CAPPATI, Alessandra (Centre National de la Recherche Scientifique (FR)); PRESILLA, Matteo (KIT - Karlsruhe Institute of Technology (DE))

Session Classification: Planning

Contribution ID: 11

Type: **not specified**

Discussion on future practical aspects (STSM, future meetings)

Session Classification: Planning

Contribution ID: 12

Type: **not specified**

Panel and discussion: jet substructure

Wednesday 2 October 2024 10:20 (40 minutes)

Discussion on current open problems and brainstorming on the best AI or classical tool to tackle them

Presenters: POTAMIANOS, Karolos (University of Warwick (GB)); Dr LETIZIA, Marco; NORJO-HARUDDEEN, Nurfikri (Helsinki Institute of Physics (FI)); CROFT, Vincent Alexander (Nikhef National institute for subatomic physics (NL))

Session Classification: Planning