

Machine learning for phenomenology

Report of Contributions

Contribution ID: 1

Type: **not specified**

Introduction

Tuesday, April 3, 2018 2:00 PM (1 hour)

Presenter: NACHMAN, Ben (LBNL)

Session Classification: General overview

Contribution ID: 2

Type: **not specified**

How to figure out what information the machine is learning from

Tuesday, April 3, 2018 3:30 PM (45 minutes)

Presenter: OSTDIEK, Bryan (University of Oregon)

Session Classification: General overview

Contribution ID: 3

Type: **not specified**

Discriminating gluon fusion and VBF in Higgs production with machine learning

Wednesday, April 4, 2018 9:30 AM (30 minutes)

Presenter: GREINER, Nicolas (University of Zurich)

Session Classification: Jets

Contribution ID: 4

Type: **not specified**

PDFs from NN to ML

Wednesday, April 4, 2018 10:00 AM (30 minutes)

Presenter: FORTE, Stefano (Milan University)

Session Classification: Jets

Contribution ID: 5

Type: **not specified**

Generative models

Wednesday, April 4, 2018 11:30 AM (45 minutes)

Presenter: PAGANINI, Michela (Yale)

Session Classification: Jets

Contribution ID: 6

Type: **not specified**

Identification of Hadronically Decaying W Bosons and Top Quarks Using Machine Learning in ATLAS

Wednesday, April 4, 2018 2:00 PM (45 minutes)

Presenter: AKILLI, Ece

Session Classification: b tagging

Contribution ID: 7

Type: **not specified**

Mauro Verzetti

Wednesday, April 4, 2018 2:45 PM (45 minutes)

Session Classification: b tagging

Contribution ID: 8

Type: **not specified**

Zihao Jiang

Thursday, April 5, 2018 9:30 AM (45 minutes)

Session Classification: Analysis-level ML

Contribution ID: 9

Type: **not specified**

David Wardrope

Session Classification: Analysis-level ML

Contribution ID: **10**

Type: **not specified**

Kristian Gregeren

Thursday, April 5, 2018 10:15 AM (45 minutes)

Session Classification: Analysis-level ML

Contribution ID: 11

Type: **not specified**

Weak supervision

Thursday, April 5, 2018 4:45 PM (45 minutes)

Presenter: OSTDIEK, Bryan (University of Oregon)

Session Classification: New ML methods

Contribution ID: 12

Type: **not specified**

Chase Shimmin

Thursday, April 5, 2018 2:45 PM (45 minutes)

Session Classification: New ML methods

Contribution ID: 13

Type: **not specified**

Clustering techniques for parameter space scanning in BSM

Thursday, April 5, 2018 4:00 PM (45 minutes)

Presenter: TOMMASO, Dorigo

Session Classification: New ML methods

Contribution ID: 14

Type: **not specified**

Machine learnng: new ideas for PDF determination

Wednesday, April 4, 2018 10:30 AM (30 minutes)

Presenter: CARRAZZA, Stefano

Session Classification: Jets

Contribution ID: 15

Type: **not specified**

Machine Learning for Boosted W-tagging in CMS

Presenter: ÅRRESTAD, Thea

Session Classification: New prospects

Contribution ID: 16

Type: **not specified**

Generative models introduction

Tuesday, April 3, 2018 4:15 PM (20 minutes)

Presenter: PAGANINI, Michela (Yale)

Session Classification: General overview

Contribution ID: 17

Type: **not specified**

Use of Machine Learning Techniques for improved Monte Carlo Integration

Wednesday, April 4, 2018 4:00 PM (45 minutes)

Presenter: BENDAVID, Josh (CERN)

Session Classification: b tagging