

PITT PACC Workshop: LHC physics for Run 3

Report of Contributions

Contribution ID: **80**

Type: **not specified**

ATLAS Run 2 Summary

Session Classification: Overview

Contribution ID: **81**

Type: **not specified**

CMS Run 2 summary

Session Classification: Overview

Contribution ID: **82**

Type: **not specified**

Theory overview

Session Classification: Overview

Contribution ID: **83**

Type: **not specified**

Electroweak SM measurements: VBS, triboson

Session Classification: Precision physics with leptons & photons

Contribution ID: 84

Type: **not specified**

Rare SM Higgs decays ($\mu\mu$, cc , $Z\gamma$ [$l\bar{l}$ and $\gamma^*\gamma$], Φ , J/Ψ)

Session Classification: Precision physics with leptons & photons

Contribution ID: 85

Type: **not specified**

New opportunities in heavy ion collisions

Session Classification: Precision physics with leptons & photons

Contribution ID: **86**

Type: **not specified**

Improving theory predictions for SM processes

Wednesday 7 April 2021 15:00 (45 minutes)

Presenter: LINDERT, Jonas (University of Sussex)

Session Classification: Theory and modelling tools

Contribution ID: 87

Type: **not specified**

CMS Trigger

Thursday 8 April 2021 10:00 (40 minutes)

Presenter: ACOSTA, Darin (University of Florida (US))

Session Classification: Upgrade and Trigger for Run 3

Contribution ID: **88**

Type: **not specified**

ATLAS Trigger

Thursday 8 April 2021 10:40 (40 minutes)

Presenter: DOGLIONI, Caterina (Lund University (SE))

Session Classification: Upgrade and Trigger for Run 3

Contribution ID: 89

Type: **not specified**

Trigger limited hadronic Higgs measurements: bb, cc, tautau (including VBF production)

Thursday 8 April 2021 11:20 (30 minutes)

Presenter: OJALVO, Isobel (Princeton University (US))

Session Classification: Hadronic physics: Jets, substructure, taus, MET

Contribution ID: **90**

Type: **not specified**

Dark matter searches using trigger scouting and parking (CMS)

Thursday 8 April 2021 13:30 (30 minutes)

Presenter: SALFELD-NEBGEN, Jakob (CERN)

Session Classification: Hadronic physics: Jets, substructure, taus, MET

Contribution ID: 91

Type: **not specified**

Dark matter searches using trigger level analysis (ATLAS)

Thursday 8 April 2021 14:00 (30 minutes)

Presenter: TOSCANI, Mariana (Universidad de Buenos Aires (AR))

Session Classification: Hadronic physics: Jets, substructure, taus, MET

Contribution ID: 92

Type: **not specified**

Higgs and exotics searches using jet substructure techniques

Thursday 8 April 2021 14:30 (30 minutes)

Presenter: MAKSIMOVIC, Petar (Johns Hopkins University (US))

Session Classification: Hadronic physics: Jets, substructure, taus, MET

Contribution ID: 93

Type: **not specified**

HH: hadronic trigger limitations and ways to improve

Thursday 8 April 2021 13:00 (30 minutes)

Presenter: ALISON, John (Carnegie-Mellon University (US))

Session Classification: Hadronic physics: Jets, substructure, taus, MET

Contribution ID: 94

Type: **not specified**

Hadronic reconstruction with ML

Friday 9 April 2021 13:15 (30 minutes)

Presenter: SWIATLOWSKI, Maximilian J (TRIUMF (CA))

Session Classification: Machine learning

Contribution ID: 95

Type: **not specified**

Identifying new phase space with ML

Friday 9 April 2021 13:45 (30 minutes)

Presenter: SHIH, David (Rutgers University)

Session Classification: Machine learning

Contribution ID: 96

Type: **not specified**

Incorporating ML into analysis: CoWLa hunting, optimization, regression and new ideas

Friday 9 April 2021 14:15 (30 minutes)

Presenter: NACHMAN, Ben (Lawrence Berkeley National Lab. (US))

Session Classification: Machine learning

Contribution ID: 97

Type: **not specified**

Non-Standard Model Higgs decays

Friday 9 April 2021 11:40 (30 minutes)

Presenter: COELHO LOPES DE SA, Rafael (University of Massachusetts (US))

Session Classification: Soft final states: Low pT jets, leptons, long-lived

Contribution ID: **98**

Type: **not specified**

Unconventional signatures of supersymmetry

Friday 9 April 2021 10:00 (40 minutes)

Presenter: REECE, Matthew (Harvard University)

Session Classification: Soft final states: Low pT jets, leptons, long-lived

Contribution ID: 99

Type: **not specified**

Long-lived particles: lessons learned for designing new trigger strategies

Friday 9 April 2021 11:10 (30 minutes)

Presenter: ALIMENA, Juliette (CERN)

Session Classification: Soft final states: Low pT jets, leptons, long-lived

Contribution ID: **100**

Type: **not specified**

Electroweak SM measurements: VBS, triboson

Wednesday 7 April 2021 14:00 (30 minutes)

Presenter: ZHU, Junjie (University of Michigan (US))

Session Classification: Precision physics with leptons & photons

Contribution ID: **101**

Type: **not specified**

SM Higgs

Wednesday 7 April 2021 13:30 (30 minutes)

Presenter: HEIM, Sarah (Deutsches Elektronen-Synchrotron (DE))

Session Classification: Precision physics with leptons & photons

Contribution ID: **102**

Type: **not specified**

Top physics: opportunities and challenges

Wednesday 7 April 2021 14:30 (30 minutes)

Primary author: JUNG, Andreas (Purdue University (US))

Presenter: JUNG, Andreas (Purdue University (US))

Session Classification: Precision physics with leptons & photons

Contribution ID: **103**

Type: **not specified**

ATLAS Run 2 summary

Wednesday 7 April 2021 09:40 (40 minutes)

Presenter: WILLOCO, Stephane Yves G (University of Massachusetts (US))

Session Classification: Overview

Contribution ID: **104**

Type: **not specified**

CMS Run 2 summary

Wednesday 7 April 2021 10:20 (40 minutes)

Presenter: NARAIN, Meenakshi (Brown University (US))

Session Classification: Overview

Contribution ID: **105**

Type: **not specified**

Theory overview

Wednesday 7 April 2021 12:45 (40 minutes)

Presenter: GORI, stefania (UC Santa Cruz)

Session Classification: Overview

Contribution ID: **106**

Type: **not specified**

Welcome and Introduction

Wednesday 7 April 2021 09:30 (5 minutes)

Primary author: HAN, Tao (University of Pittsburgh)

Presenter: HAN, Tao (University of Pittsburgh)

Session Classification: Overview

Contribution ID: **107**

Type: **not specified**

Unconventional object reconstruction

Friday 9 April 2021 10:40 (30 minutes)

Presenter: HOLMES, Tova Ray (University of Tennessee (US))

Session Classification: Soft final states: Low pT jets, leptons, long-lived

Contribution ID: **108**

Type: **not specified**

Physics case for displaced vertex triggers during Run 4

Thursday 8 April 2021 15:00 (30 minutes)

Presenters: KNAPEN, Simon; KNAPEN, Simon; KNAPEN, Simon (CERN)

Session Classification: Hadronic physics: Jets, substructure, taus, MET

Contribution ID: **109**

Type: **not specified**

Electroweak Restoration at the LHC and Beyond: The V_h Channel

Wednesday 7 April 2021 15:45 (30 minutes)

Presenter: LEWIS, Ian (The University of Kansas)

Session Classification: Theory and modelling tools