

**PHYSTAT-Systematics 2021,
1-3 Nov + 10 Nov**



Report of Contributions

Contribution ID: 1

Type: **not specified**

Welcome to workshop

Monday, 1 November 2021 14:00 (5 minutes)

Session Classification: Session 1a

Contribution ID: 2

Type: **not specified**

Setting the Scene

Monday, 1 November 2021 14:05 (25 minutes)

Presenter: LYONS, Louis (Imperial College (GB))

Session Classification: Session 1a

Contribution ID: 3

Type: **not specified**

Statistician's overview of Systematics

Monday, 1 November 2021 14:30 (30 minutes)

Presenters: VAN DYK, David (University of California, Irvine); VAN DYK, David

Session Classification: Session 1a

Contribution ID: 4

Type: **not specified**

Systematics of direct Dark Matter signals experiments and models

Monday, 1 November 2021 15:10 (30 minutes)

Presenters: MORÅ, Knut (Columbia University); MORÅ, Knut (Stockholm University)

Session Classification: Session 1a

Contribution ID: 5

Type: **not specified**

Systematics at LHC for event selection, discovery and limits

Monday, 1 November 2021 16:20 (30 minutes)

Presenter: HEINRICH, Lukas Alexander (CERN)

Session Classification: Session 1b

Contribution ID: 6

Type: **not specified**

Precision measurements

Monday, 1 November 2021 17:00 (30 minutes)

Presenter: GLAZOV, Alexander (Deutsches Elektronen-Synchrotron (DE))

Session Classification: Session 1b

Contribution ID: 7

Type: **not specified**

Response 2

Monday, 1 November 2021 17:40 (20 minutes)

Presenters: JUNK, Tom (Department of Physics); JUNK, Tom (Fermi National Accelerator Lab. (US))

Session Classification: Session 1b

Contribution ID: 8

Type: **not specified**

Systematics in a selection of neutrino oscillation experiments

Tuesday, 2 November 2021 14:00 (30 minutes)

Presenter: BRONNER, Christophe (Kamioka, ICRR, University of Tokyo)

Session Classification: Session 2a

Contribution ID: 9

Type: **not specified**

Flavour physics

Tuesday, 2 November 2021 14:40 (30 minutes)

Presenter: BLAKE, Thomas (University of Warwick)

Session Classification: Session 2a

Contribution ID: **10**

Type: **not specified**

Response 3

Tuesday, 2 November 2021 15:20 (20 minutes)

Presenter: SCHAFER, Chad (CMU)

Session Classification: Session 2a

Contribution ID: 11

Type: **not specified**

Theory uncertainties

Tuesday, 2 November 2021 16:00 (30 minutes)

Presenters: TACKMANN, Frank; TACKMANN, Frank (Deutsches Elektronen-Synchrotron (DE))

Session Classification: Session 2b

Contribution ID: 12

Type: **not specified**

Data mismodelling

Tuesday, 2 November 2021 16:40 (30 minutes)

Presenter: DE WIT, Adinda (Universitaet Zuerich (CH))

Session Classification: Session 2b

Contribution ID: 13

Type: **not specified**

How the Bootstrap eliminates nuisance parameters for confidence intervals

Tuesday, 2 November 2021 17:40 (35 minutes)

Presenter: EFRON, Brad (Stanford)

Session Classification: Session 2b

Contribution ID: 14

Type: **not specified**

Response 4

Tuesday, 2 November 2021 17:20 (20 minutes)

Presenter: WASSERMAN, Larry (CMU)

Session Classification: Session 2b

Contribution ID: 15

Type: **not specified**

Systematic uncertainties in unfolding particle spectra

Wednesday, 3 November 2021 14:00 (30 minutes)

Presenter: KUUSELA, Mikael (Carnegie Mellon University (US))

Session Classification: Session 3a

Contribution ID: 16

Type: **not specified**

Three approaches to Systematics with Machine Learning

Wednesday, 3 November 2021 14:40 (30 minutes)

Presenter: CRANMER, Kyle Stuart (New York University (US))

Session Classification: Session 3a

Contribution ID: 17

Type: **not specified**

Response 5

Wednesday, 3 November 2021 15:20 (20 minutes)

Presenter: DAVISON, Anthony (EPFL)

Session Classification: Session 3a

Contribution ID: **18**

Type: **not specified**

Short talks by Statisticians

Session Classification: Session 3b

Contribution ID: 19

Type: **not specified**

Final remarks ** N.B. Summary Talks on Nov 10th **

Wednesday, 3 November 2021 17:42 (15 minutes)

Presenter: BEHNKE, Olaf (Deutsches Elektronen-Synchrotron (DE))

Session Classification: Session 3b

Contribution ID: 20

Type: **not specified**

Physicist's summary

Wednesday, 10 November 2021 15:00 (30 minutes)

Presenter: WARDLE, Nicholas (Imperial College (GB))

Session Classification: Summary presentations

Contribution ID: 21

Type: **not specified**

Statistician's summary

Wednesday, 10 November 2021 15:45 (30 minutes)

Presenter: ALGERI, Sara (University of Minnesota)

Session Classification: Summary presentations

Contribution ID: 22

Type: **not specified**

Response 1

Monday, 1 November 2021 15:50 (10 minutes)

Presenter: BRAZZALE, Alessandra (Padova)

Session Classification: Session 1a

Contribution ID: 23

Type: **not specified**

A call to action: Honoring PHYSTAT's 20 year old agreement

Monday, 1 November 2021 18:00 (20 minutes)

Presenters: CRANMER, Kyle (NYU); CRANMER, Kyle Stuart (New York University (US))

Session Classification: Session 1b

Contribution ID: 24

Type: **not specified**

Transfer Learning for data-driven background modelling: Optimal Transport v Classifier Extrapolation

Wednesday, 3 November 2021 16:00 (25 minutes)

Presenter: MANOLE, Tudor (CMU)

Session Classification: Session 3b

Contribution ID: 25

Type: **not specified**

Systematic effects versus nuisance parameters

Wednesday, 3 November 2021 16:25 (25 minutes)

Presenter: LOCKHART, Richard (SFU)

Session Classification: Session 3b

Contribution ID: 26

Type: **not specified**

Universal Inference

Wednesday, 3 November 2021 16:50 (25 minutes)

Presenter: WASSERMAN, Larry (Carnegie Mellon University)

Session Classification: Session 3b

Contribution ID: 27

Type: **not specified**

Bayesian reflection on Systematics

Wednesday, 3 November 2021 17:15 (25 minutes)

Presenter: BERGER, James (Duke University)

Session Classification: Session 3b

Contribution ID: 28

Type: **not specified**

Partially Bayes : An inter-perspective approach for handling nuisance parameters

Wednesday, 3 November 2021 17:40 (2 minutes)

Recorded talk, available for viewing afterwards

Send comments/questions for Prof. Meng to l.lyons@physics.ox.ac.uk

Presenter: MENG, Xiao-Li (Harvard)

Session Classification: Session 3b