

## Session Program

9-11 May 2022



# Phenomenology 2022 Symposium: From Virtual to Real

## *Tools I*

University of Pittsburgh  
Pittsburgh, PA 15260

Monday 9 May

14:15

Tools I

Session | Location: Lawrence Hall 203 | Convener: Richard Ruiz

14:15–14:30

Probing CP-violation and thermal history of our Universe with Higgs physics

Speaker

Dorival Gonçalves

14:30–14:45

Deep Neural Networks to Search for BSM Physics at the Fermilab SBN Program

Speaker

Jamie Dyer

14:45–15:00

Azimuthal Angular Correlation as a New Boosted Top Jet Substructure

Speaker

Zhite Yu

15:00–15:15

Modeling Hadronization using Machine Learning

Speaker

Ahmed Youssef

15:15–15:30

Constraining CP-violation in the Higgs-top-quark interaction using machine-learning-based inference

Speaker

Henning Bahl

15:30–15:45

Generative Networks for Precision Enthusiasts

Speaker

Theo Heimel

15:45–16:00

Symmetries, Safety, and Self-Supervision

Speaker

Barry Dillon

16:00