

Session Program

5-7 Jun 2023

LHC TOP WG meeting

Mini-session

CERN, 40/S2-D01 - Salle Dirac

Tuesday 6 June

09:00

Mini-session: Theory advancements on top-quark mass

Session | **Location:** CERN, 40/S2-D01 - Salle Dirac

09:00–09:20

Investigation of scale dependence in the $\overline{\text{MS}}$ and $\overline{\text{MS}}$ top mass schemes for the $t\bar{t}$ invariant mass differential xsec using LHC data

Speaker

Dr Toni Makela

09:20–09:30

Discussion

09:30–09:50

New top mass calibration results for inclusive and differential top quark mass observables

Speaker

Andre Hoang

09:50–10:00

Discussion

10:00–10:20

Phenomenological analysis of LHC $t\bar{t}$ data at NNLO accuracy using the MATRIX framework

Speakers

Oleksandr Zenaiev, Oleksandr Zenaiev

10:20–10:30

Discussion

11:00–11:20

Coffee break

11:20–11:40

Linear power correction for single top production

Speaker

Melih Arslan Ozelik

11:40–11:50

Discussion

11:50–12:10

ML approaches for parameter reweighting in MC samples for top production

Speaker

Valentina Guglielmi

12:10–12:20

Discussion

12:20–12:30

Thoughts on using ML methods to improve the understanding of ATLAS and CMS systematics

13:05

Speaker
Jan Kieseler

12:30–12:35 **Discussion**

12:35–13:05 **Informal discussion on status of tt threshold corrections**

Speakers
Andre Hoang, Prof. Fabio Maltoni