

## Closing remarks Mario Campanelli (UCL)

15<sup>th</sup> anniversary edition of this conference series Started as a common ground between theorists and experimentalists to discuss preparation for the first LHC data

We were pessimistic (or realists?), assuming that the first data would only be Standard Model, while others were organising conferences like "How we will discover SUSY tomorrow"

## Guiding principles

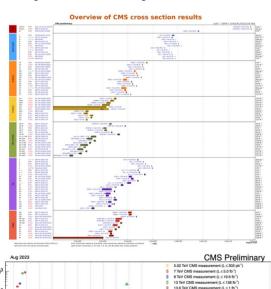
- We did not want a "fast food" conference with non-experts flashing slides and running away
- We aim at a place where people working on the analysis could discuss their results and methodology with other experts:
  - Ample time for discussion
  - Relaxed coffee breaks and lunch

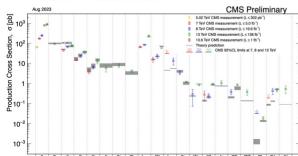




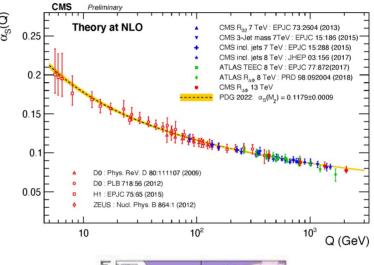
## 15 years on...

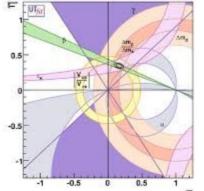
Well we are still discussing the SM (with Higgs and b-Physics) as the most precisely tested theory in history

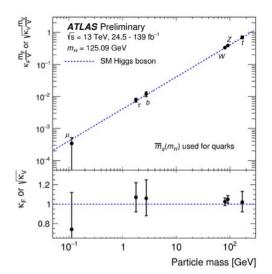


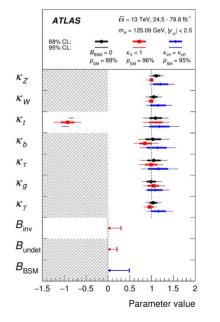




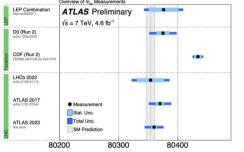






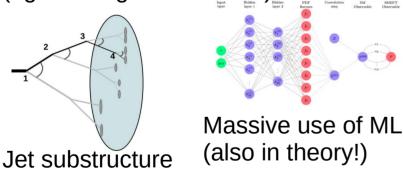


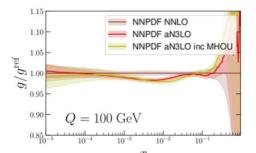
What was (maybe) less obvious 15 years ago



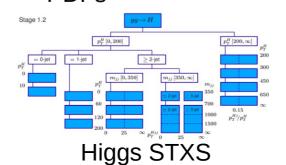
Quantum entanglement

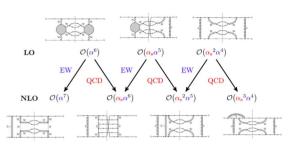
LHC is a precision machine! (eg. beating LEP on Mw!)



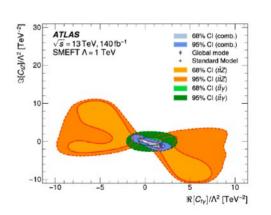


N3LO in calculations and PDFs

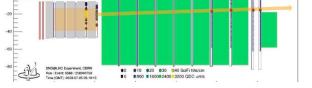




Interplay between QCD and EW corrections



Extended use of EFT to combine results



Direct neutrino measurements

## Conclusions

Our goals were that you come out of this conference:

- Having learnt something
- Having made contacts with people you will collaborate with
- Got ideas on how to improve your current/future analysis
- Had fun

Thanks a lot to

All the speakers and session chairs

Aleandro, Roberta and all local organisers!!!

,,,and see you at SMLHC 2025