

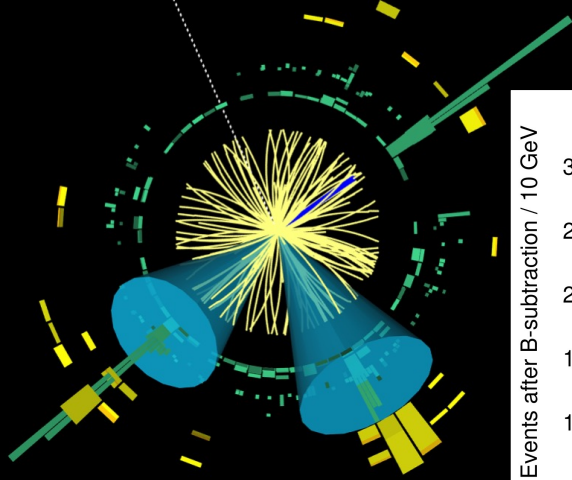
# ATLAS

Ready for run-3

# Run-2 physics result

Higgs boson coupling to charm quarks (2<sup>nd</sup> generation fermion)  
World's most sensitive measurement

WH $\rightarrow$ evcc candidate

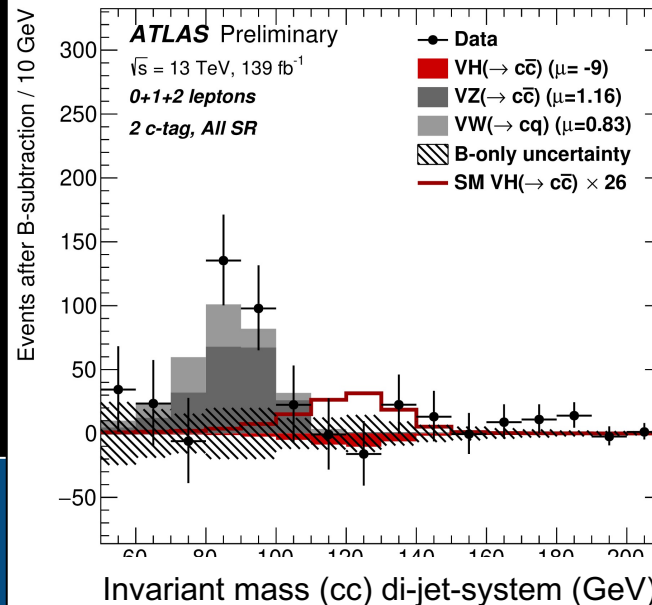


ATLAS-CONF-2021-021



Direct constraint on  $|\kappa_C|$ :

$$|\kappa_C| < 8.2. (12.4) \text{ at } 95\% \text{ CL}$$



Zhuoran Feng & Marko Stamenkovic

# Detector ready for run-3

## New Small Wheel (C)

Muon detector - endcap



Ash Mc Dougall – yesterday

NSW-A already installed. NSW-C was long on critical path. It looks like we're going to make it! **Ready for run-3!**

Heroic effort of many people, also Nikhef (Mesfin, Vladimir)

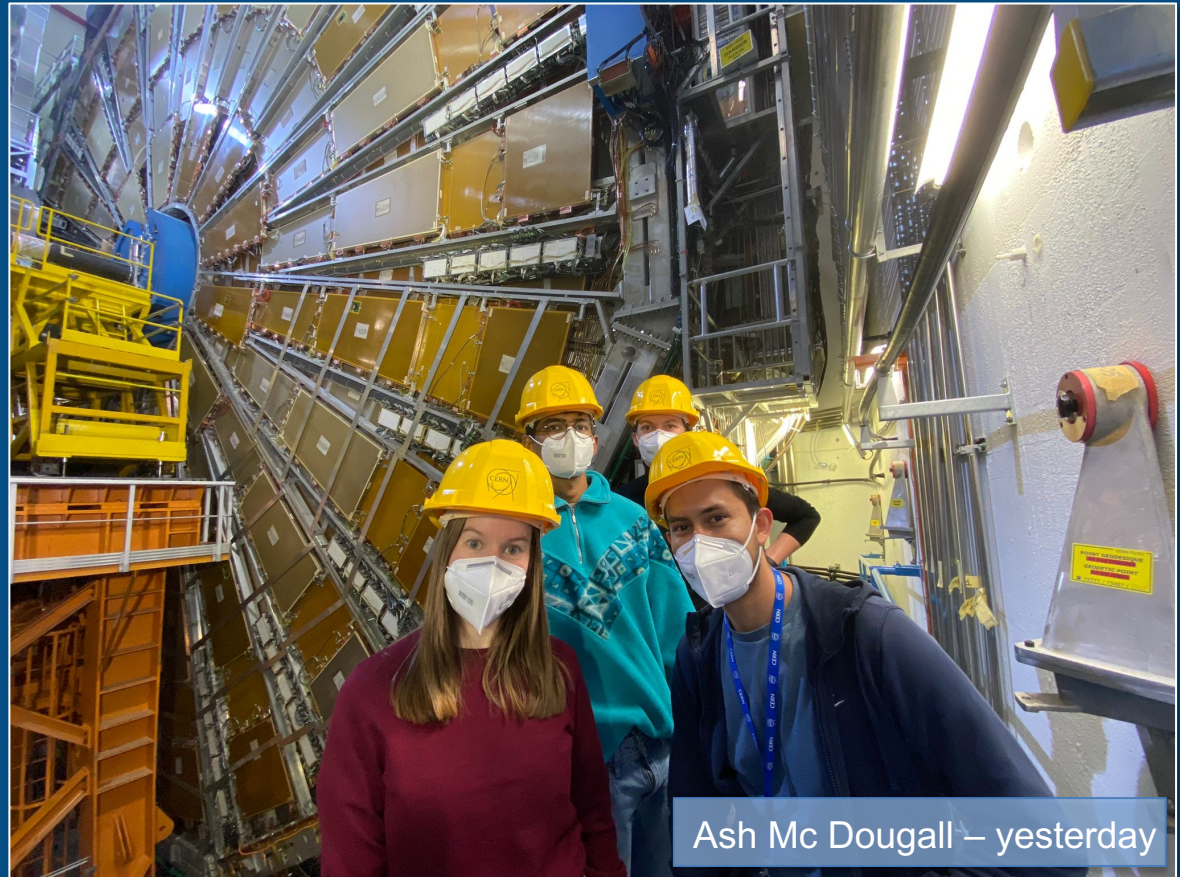


Tristan du Pree, Mesfin Gebyehu, Vladimir Gromov



# Detector ready for run-3

Clara Nellist did a Live  
TikTok tour this week



Ash Mc Dougall – yesterday

ATLAS with Ashley Francisco, Rahul & Ann-Kathrin



# Preparing for data analysis in run-3

Leadership positions in ATLAS



*Flavia de Almeida Dias*  
Convenor Exotics group

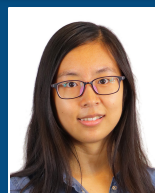
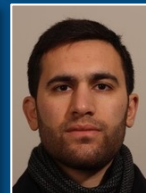
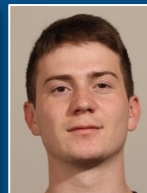
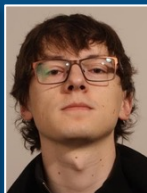
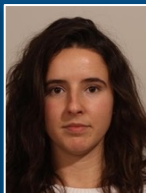


*Frank Filthaut*  
Authorship committee



*Pamela Ferrari*  
Physics coordinator

Brand new team ready for run-3 data: ENW-XL, Vidi (Flavia), Veni (Hannah), ...



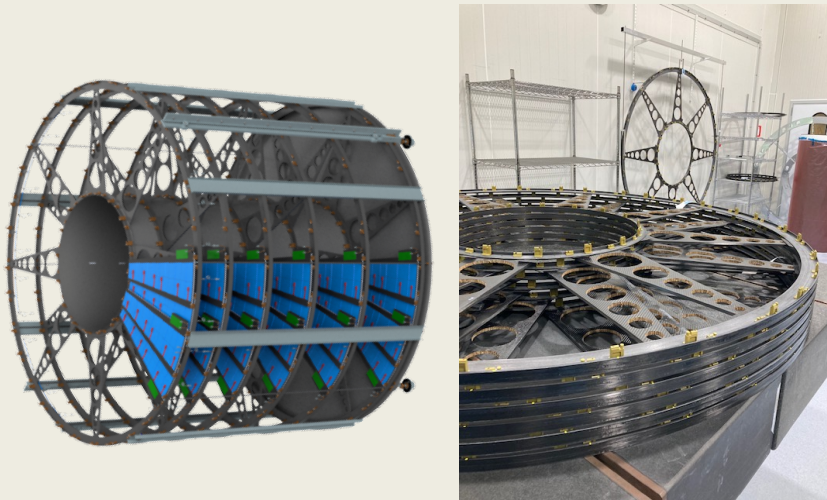
Run-3



# Preparing for HL-LHC

Active in many projects: Muon / TDAQ / ITK / HGTD

## Inner Tracker (ITK)



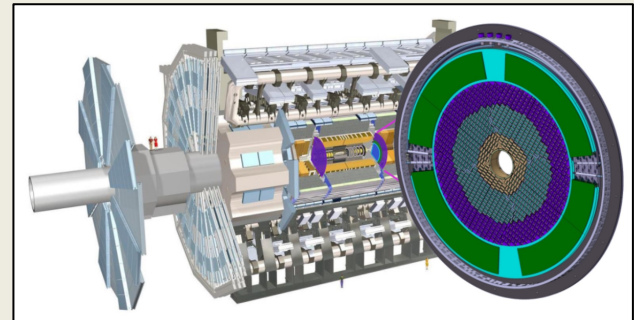
preparation → production

14 carbon wheels almost finished

project leader: Marcel Vreeswijk

## High granularity timing detector

- Signed MoU to join project
- Fast timing detector - LS3 (2027)



- Gearing up DAQ, timing resolution and sensor studies
- Path to R&D upgrade opportunities