

Omar Istaitia



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WISHEPP

2012-2013

2013-2017

2019-2022

2023

2024



université
PARIS-SACLAY

Tawjihi Scientific Stream

BSc in Physics

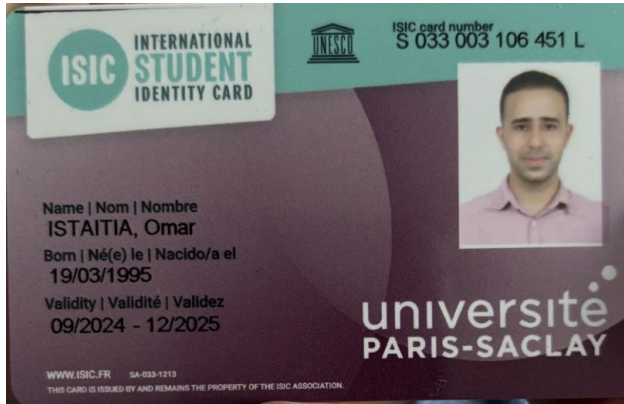
MSc in Physics

Ph.D. in Physics

My PhD Topic

Mesure de la diffusion des bosons vecteurs avec le détecteur ATLAS utilisant les données du Run-3 du LHC. Participation à la construction du tracker ATLAS en vue de la phase Haute Luminosité du LHC.

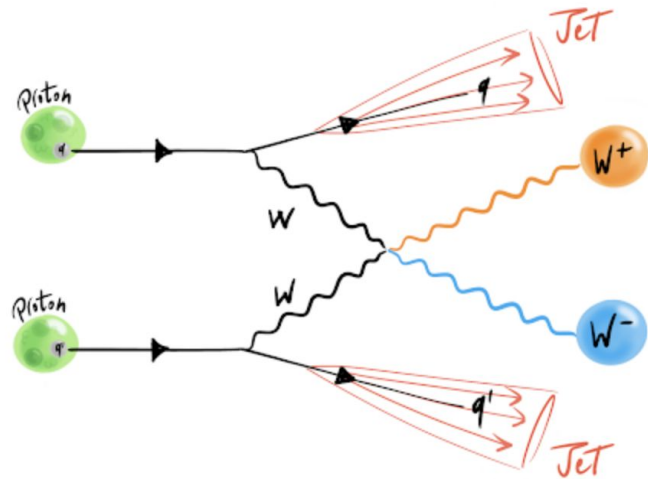
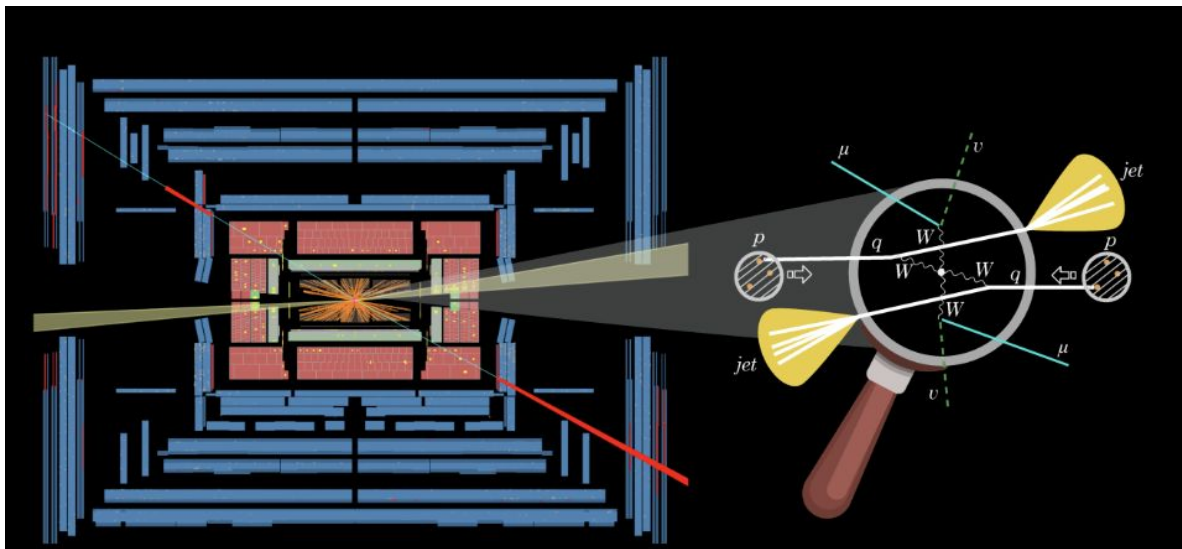
under supervision of: **Dimitris Varouchas**



with my colleges at IJCLab

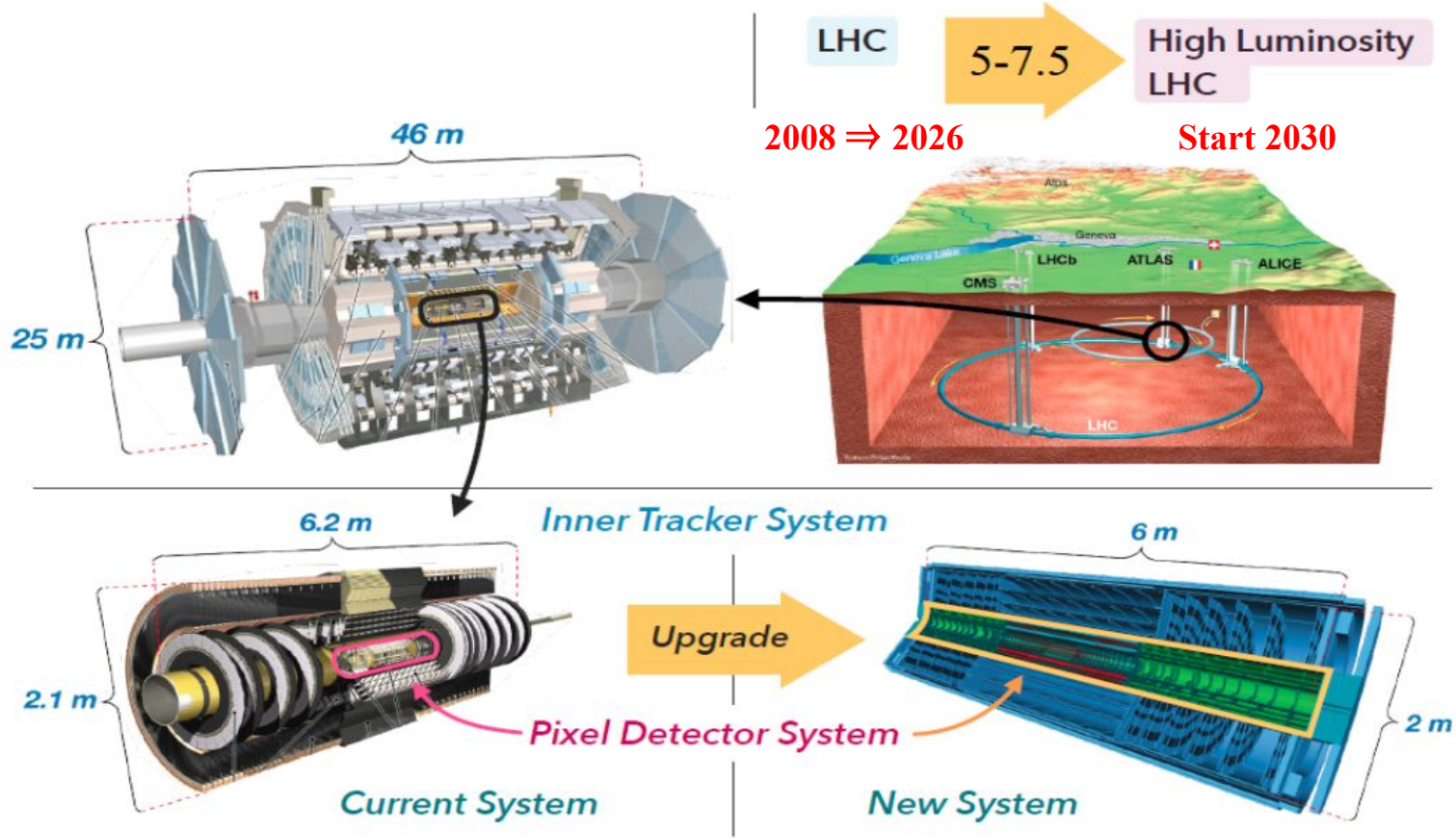
Vector Boson Scattering

- ❖ My work focuses on studying vector boson scattering using LHC Run-3 (2022-2025) data taken by ATLAS.
- ❖ The analysis targets of semileptonic channel of the VBS and forward jets.

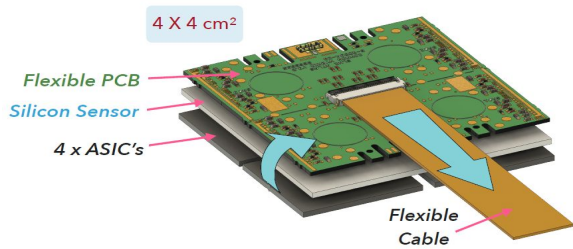


The goal is to improve jet reconstruction and contribute to a better understanding of W/Z bosons interactions.

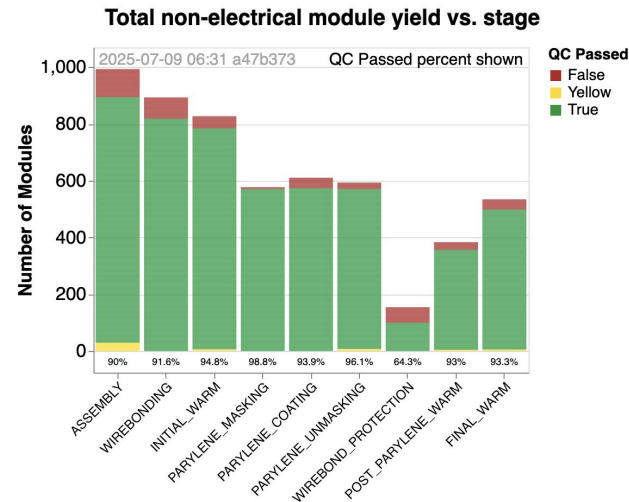
ATLAS Inner Detector Upgrade



How do we know if the clusters built a 'GOOD' modules?



QC data tests
uploaded to PDB



- ❖ We produce data once we assemble and test the modules, then we store it in the production database. Then, the Data Reporting Group analyzes the results.
- ❖ The work of Data reporting is very important for modules quality for All ITk people.
- ❖ Studying the QC aims to monitor the quality of ITk pixel module production.

Thank You !