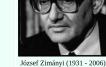
## ZIMÁNYI SCHOOL 2023



23rd ZIMÁNYI SCHOOL WINTER WORKSHOP ON HEAVY ION PHYSICS

December 4-8, 2023

opy Budapest, Hungary



## The ALICE Fast Interaction Trigger performance and upgrade

## Sahil Upadhyaya

on behalf of the ALICE collaboration

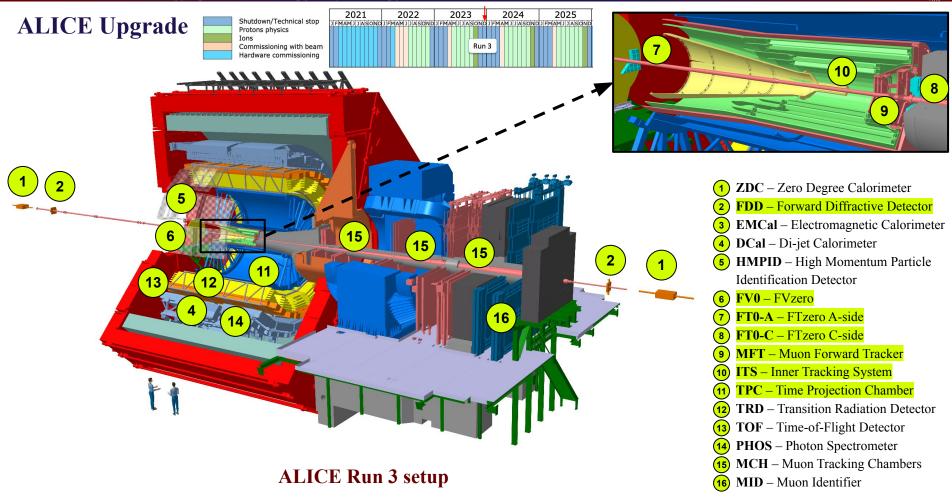


THE HENRYK NIEWODNICZAŃSKI INSTITUTE OF NUCLEAR PHYSICS POLISH ACADEMY OF SCIENCES



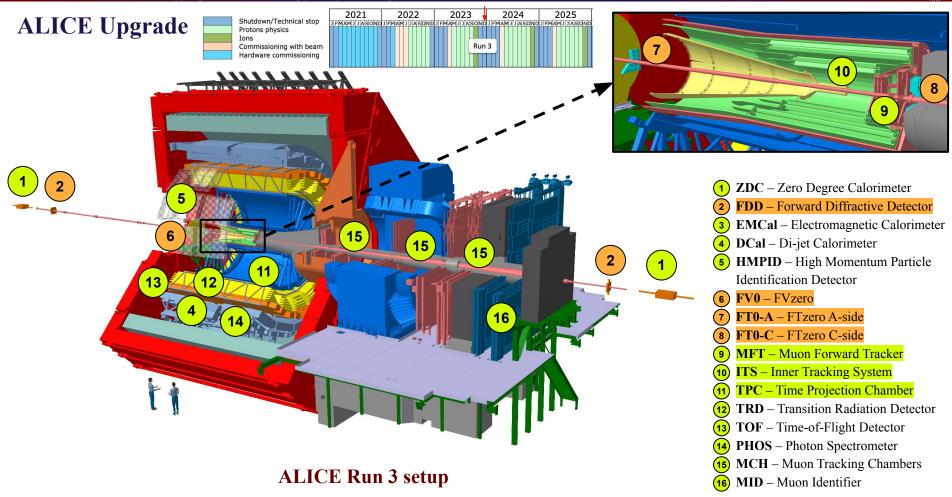


#### The ALICE Fast Interaction Trigger performance and upgrade | ALICE Upgrade



**1** 

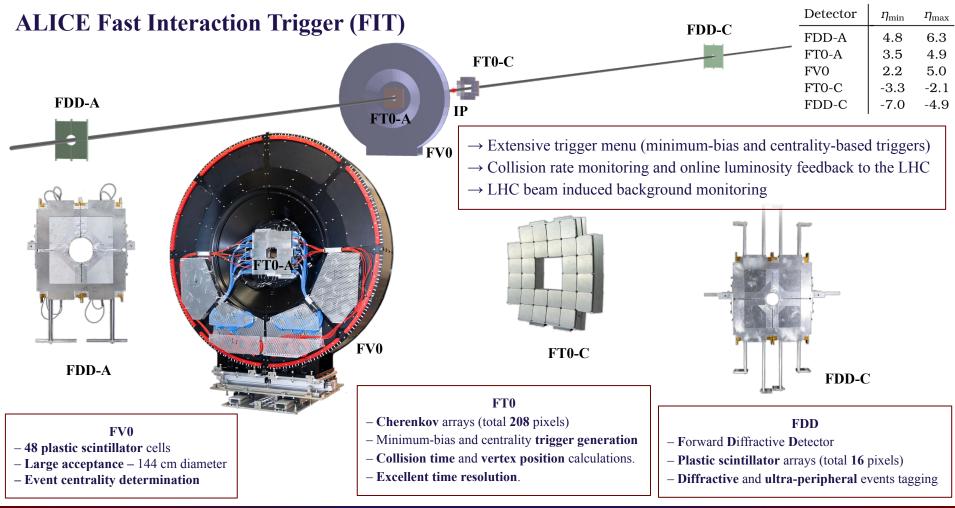
#### The ALICE Fast Interaction Trigger performance and upgrade | ALICE Upgrade



Sahil Upadhyaya

**1** 



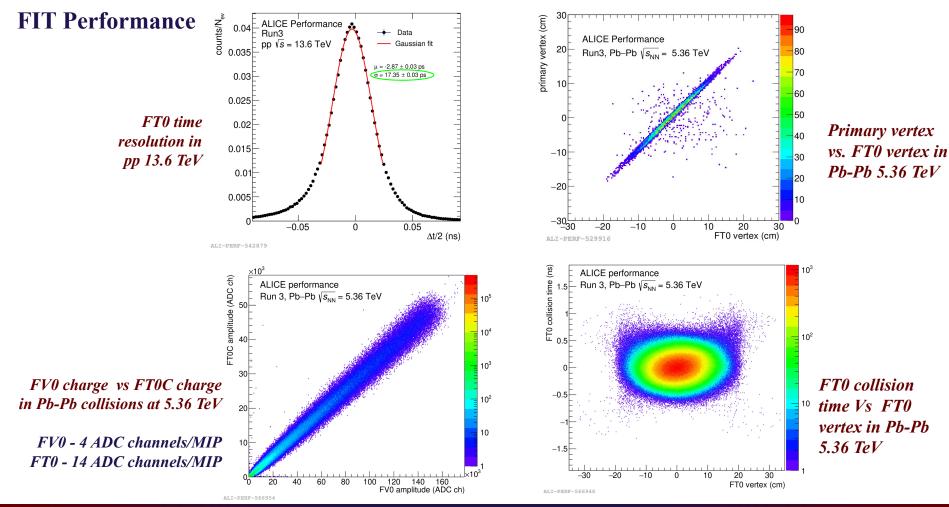


Sahil Upadhyaya

23rd Zimányi School Winter Workshop on Heavy-ion Physics, Budapest, Hungary – December 4-8, 2023

#### The ALICE Fast Interaction Trigger performance and upgrade | FIT Performance



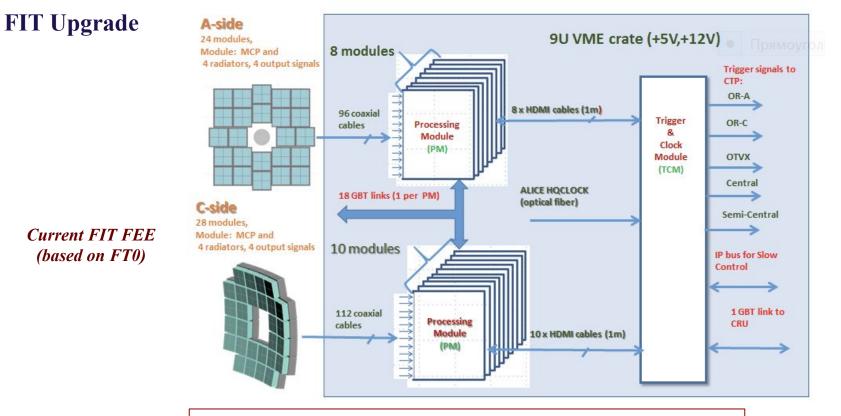


Sahil Upadhyaya

23rd Zimányi School Winter Workshop on Heavy-ion Physics, Budapest, Hungary – December 4-8, 2023

#### The ALICE Fast Interaction Trigger performance and upgrade | FIT Upgrade





### **Upgrade plans for Run 4**

- Replacement of analog with digital electronics based on FPGA and RFSoC
- Increase ADC dynamic range for charge measurements.
- Online tagging of pileup events

Sahil Upadhyaya

23rd Zimányi School Winter Workshop on Heavy-ion Physics, Budapest, Hungary – December 4-8, 2023

# Thank You ! Köszönöm !

### References

M. Slupecki, NIMA 1039 (2022) 167021
W. H. Trzaska, NIMA 958 (2020) 162116
M. Slupecki, PoS (ICHEP2020) 779
S. Bysiak, PoS (LHCP2020) 251
D. Finogeev et al, 2020 JINST 15 C09005

## Acknowledgement

Supported by Polish Ministry of Education and Science Grant - **DIR-WSIB.92.11.2023** 







THE HENRYK NIEWODNICZAŃSKI INSTITUTE OF NUCLEAR PHYSICS POLISH ACADEMY OF SCIENCES

