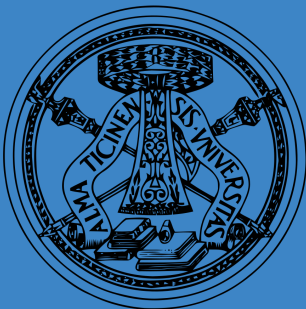


# MID ISE 2024

## Update week 12

M. Verzeroli, M. C. Arena



EP-DT  
Detector Technologies

# Update

Electrode labelled “ALICE”

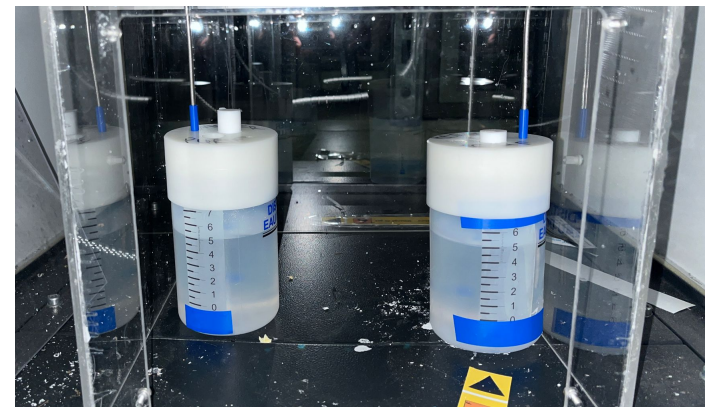
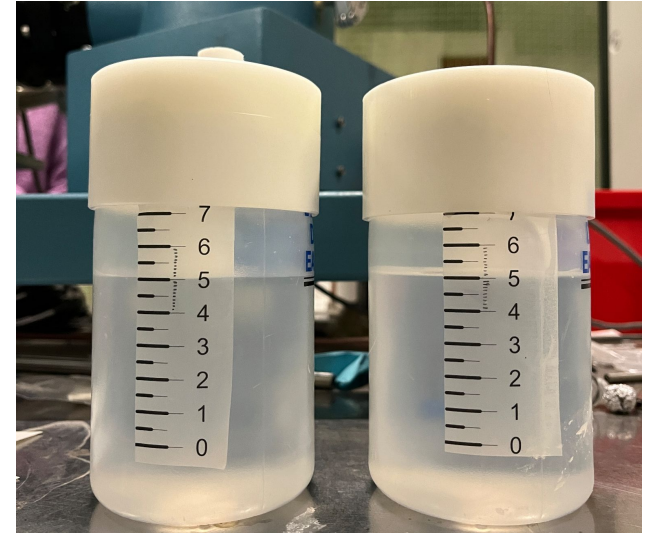
- Calibration: 04/06/2024  
-> next calibration 18/06/2024
- First measurement: 19/02/2024

After purifier and before purifier:

- 320 ml sampling solution

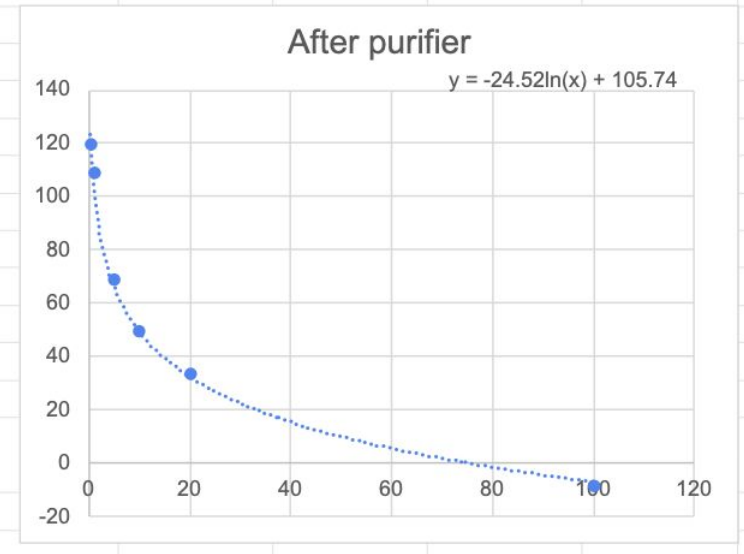
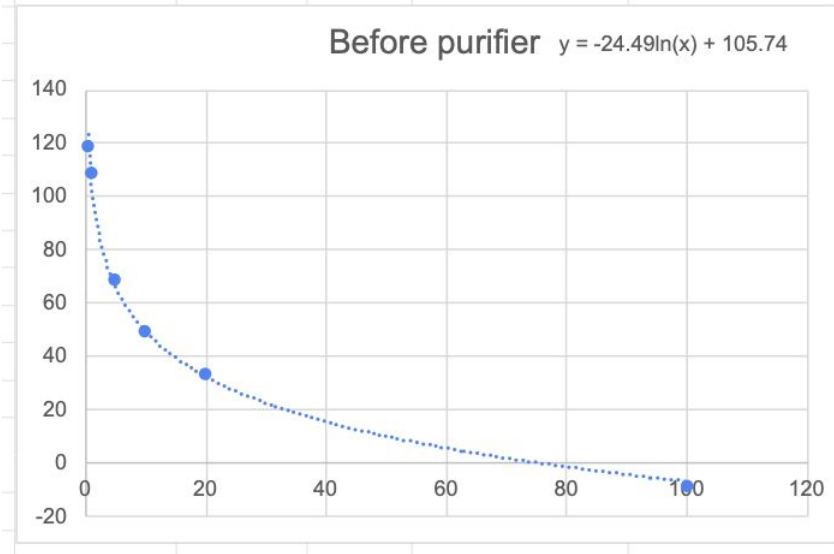
Since no accumulation in the pp collision:

- > bypassed MFM sensor
- > flow set from rotameter: 1 ln/h



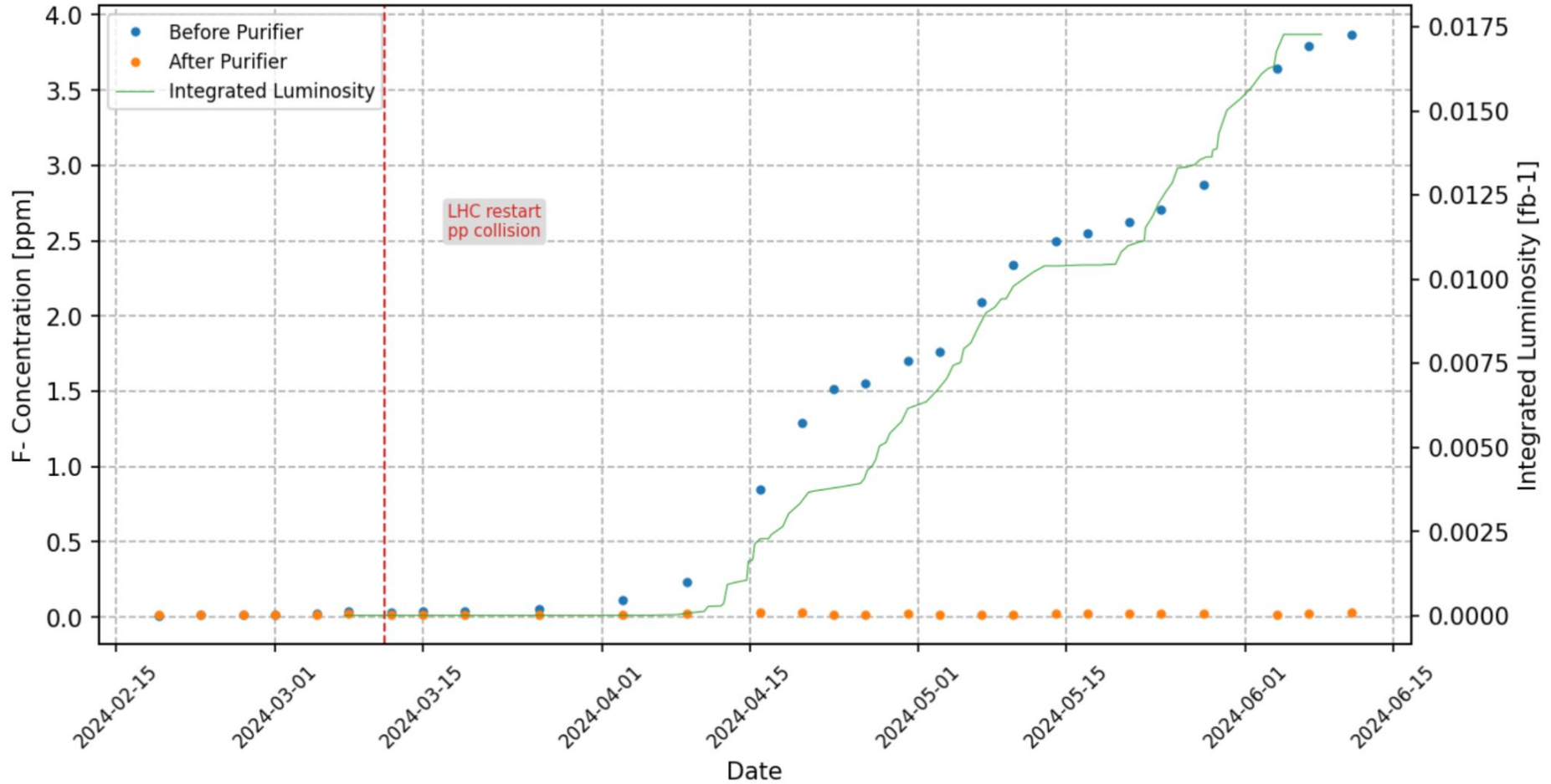
# Excel: calibration

| Cern username |            |          |                    |                   |            |            |
|---------------|------------|----------|--------------------|-------------------|------------|------------|
| Author        | Date       | F- [ppm] | Before sensor [mV] | After sensor [mV] | Before [a] | Before [b] |
| maarena       | 04/06/2024 | 0.5      | 118.9              | 119               | -24.49     | 105.74     |
|               |            | 1        | 108.4              | 108.4             | After [a]  | After [b]  |
|               |            | 5        | 68.8               | 68.6              | -24.52     | 105.74     |
|               |            | 10       | 49.1               | 49                |            |            |
|               |            | 20       | 33                 | 33                |            |            |
|               |            | 100      | -8.8               | -8.9              |            |            |

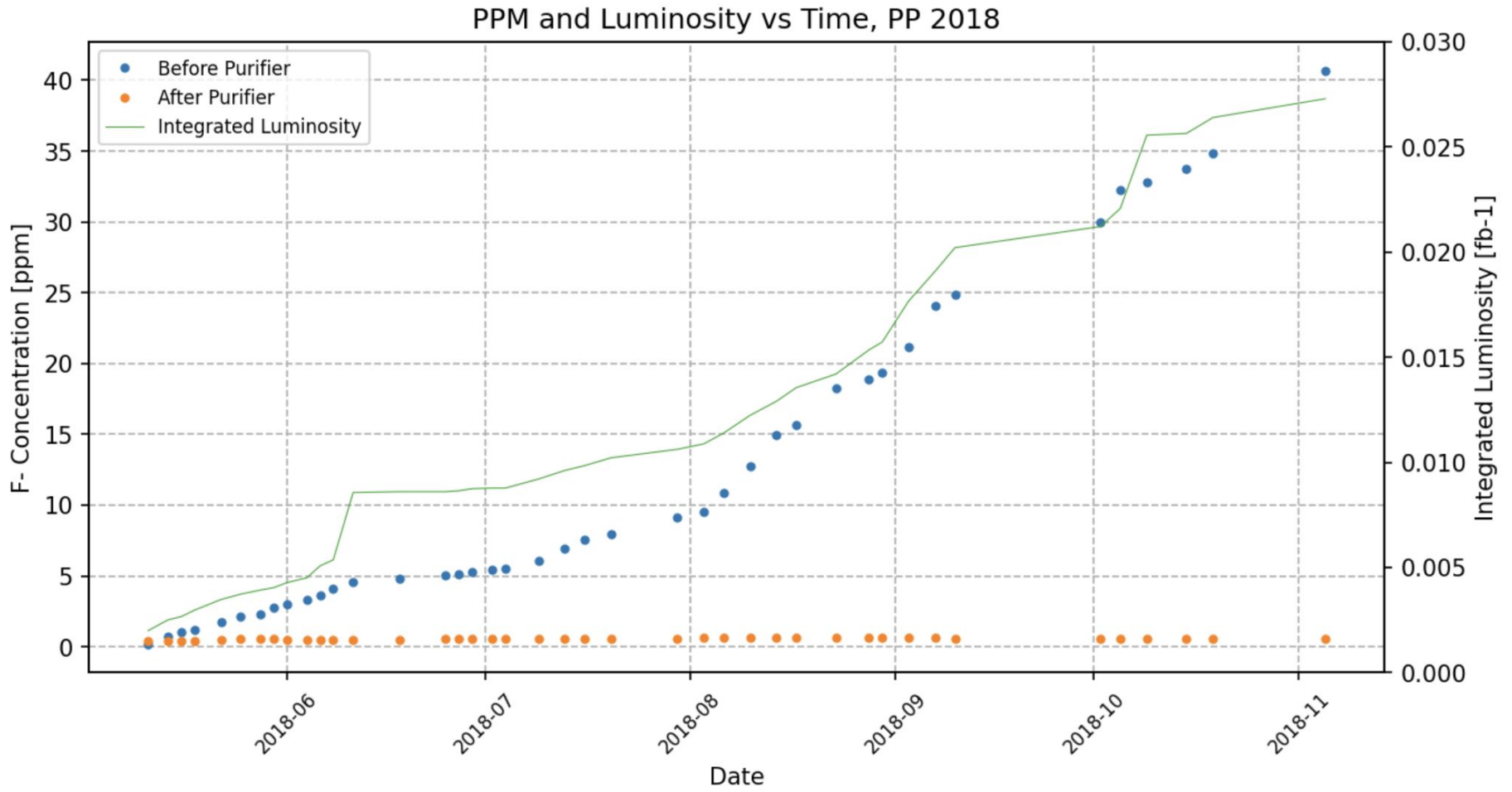


# Analysis 2024

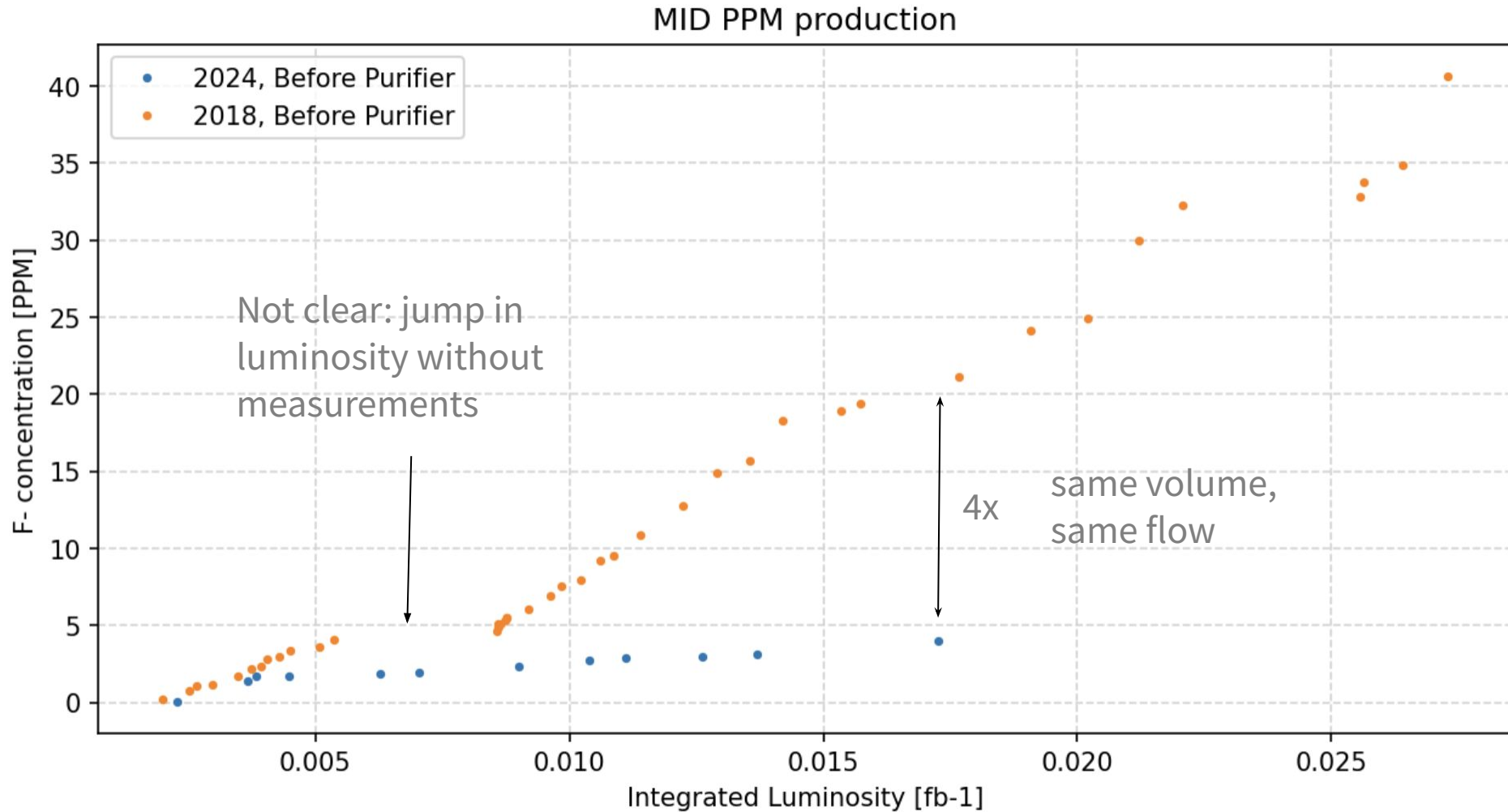
PPM and Luminosity vs Time, 2024



# Analysis 2018



# Comparison 2023 and 2024



# Comparison 2023 and 2024

To understand if is related to the change in the WP (~10.3 kV 2018, ~ 9.6 kV mean)  
-> test can be performed at GIF++ with STD gas mixture:

|        | Voltage | ABS |
|--------|---------|-----|
| Test 1 | WP      | 2.2 |
| Test 2 | WP-700  | 2.2 |
| Test 3 | WP      | 6.9 |
| Test 4 | WP-700  | 6.9 |