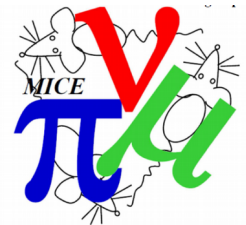# System performance paper

Paolo Franchini

Imperial College London

**MICE Analysis Workshop
April, 16 2019**

Introduction

- Comments received during last meetings for most of the sections

- Only plots considered so far

- Updates received for

  - **TOF**

  - **EMR**

  - **LH2 absorber**

- **KL**: Mariyan working on his contribution

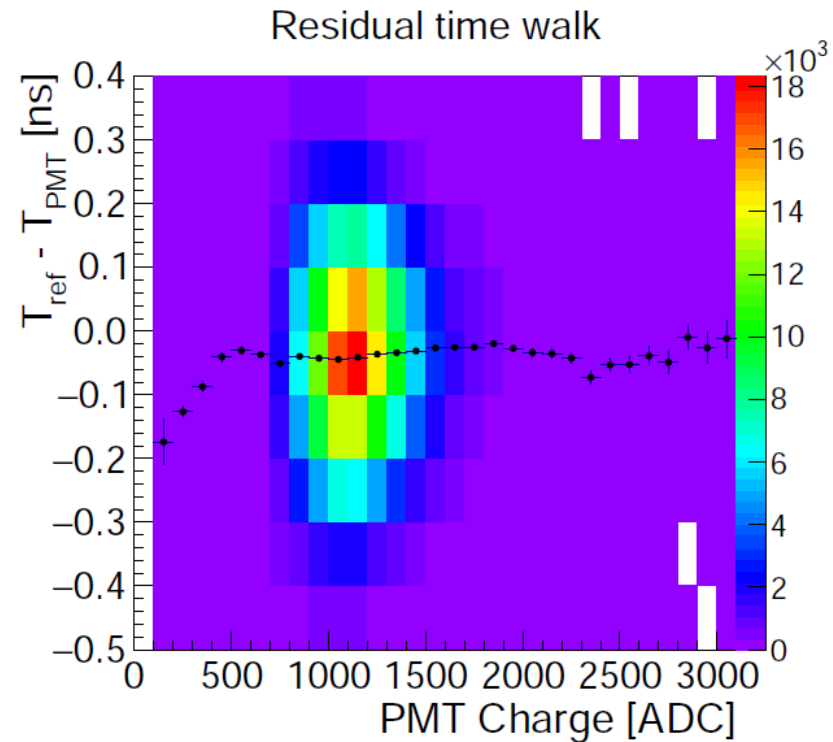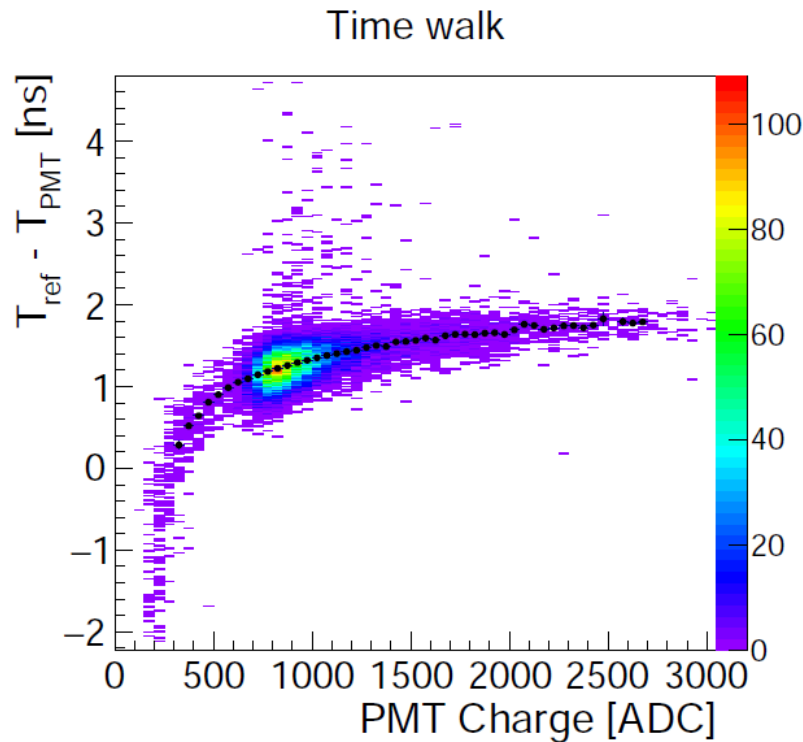- **Tracker**: I will run CH code while he is away

Introduction

- Work to have uniform analysis

  - MAUS release

  - Plotting styles
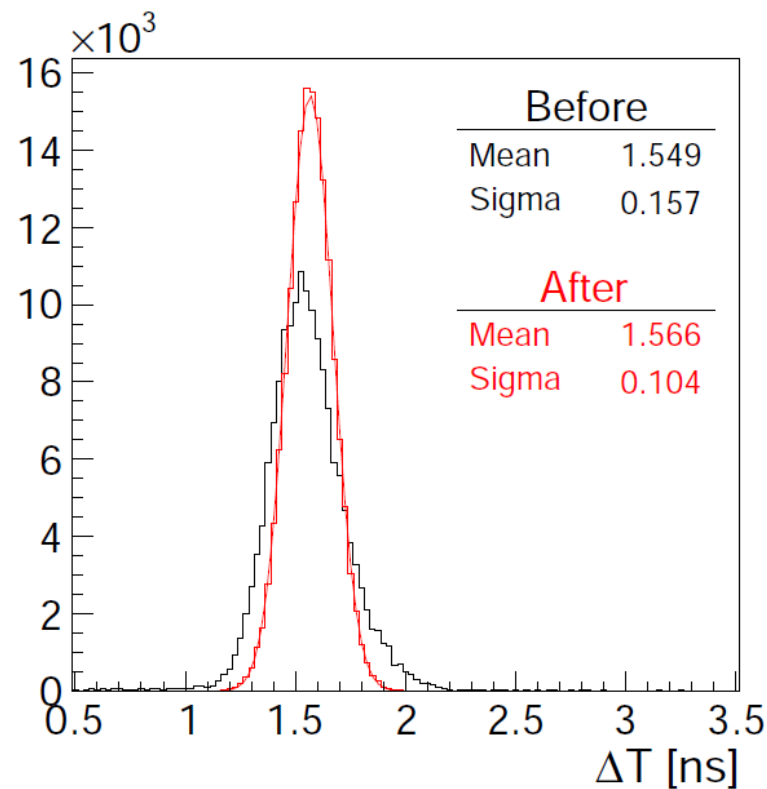
  - Common set of cuts and datasets where possible

TOF

- Time walk correction

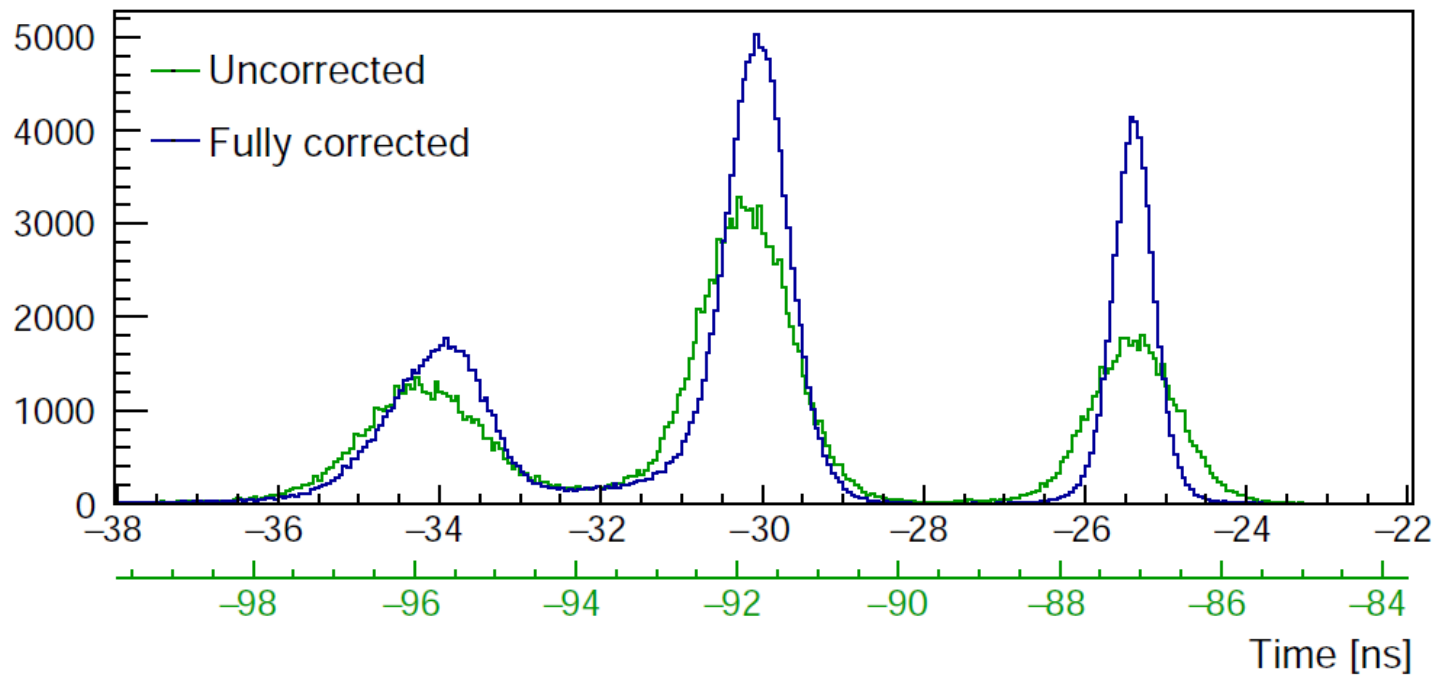 - ΔT between horizontal and vertical slabs

TOF

- Example of Δt between horizontal and vertical slabs, before and after the time walk corrections
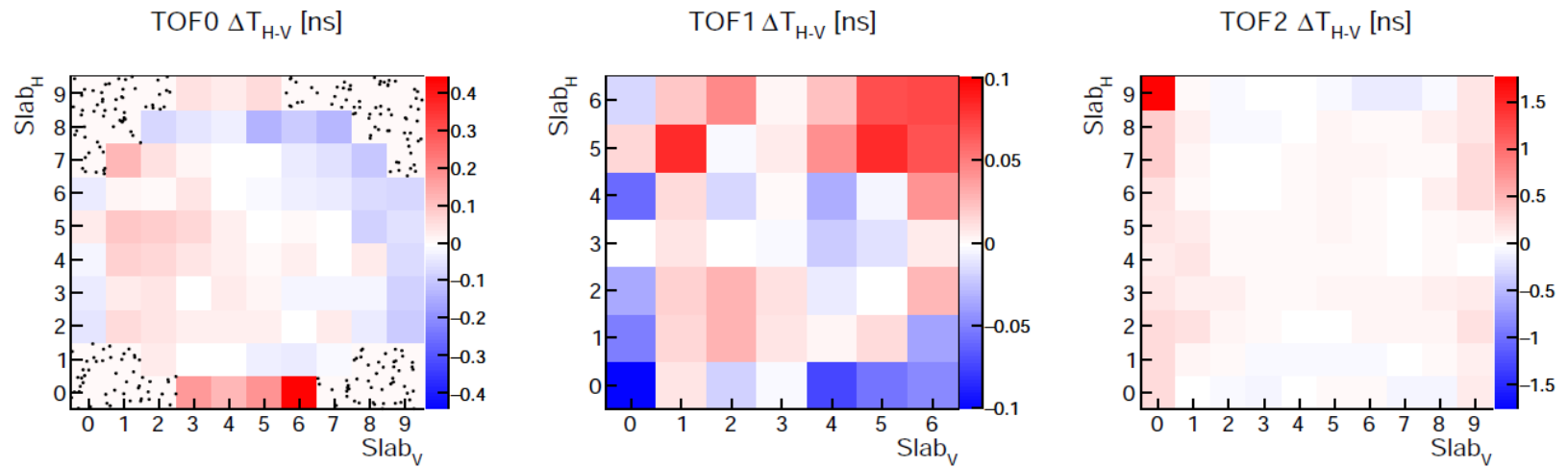
TOF

- Time distribution before and after the corrections

TOF
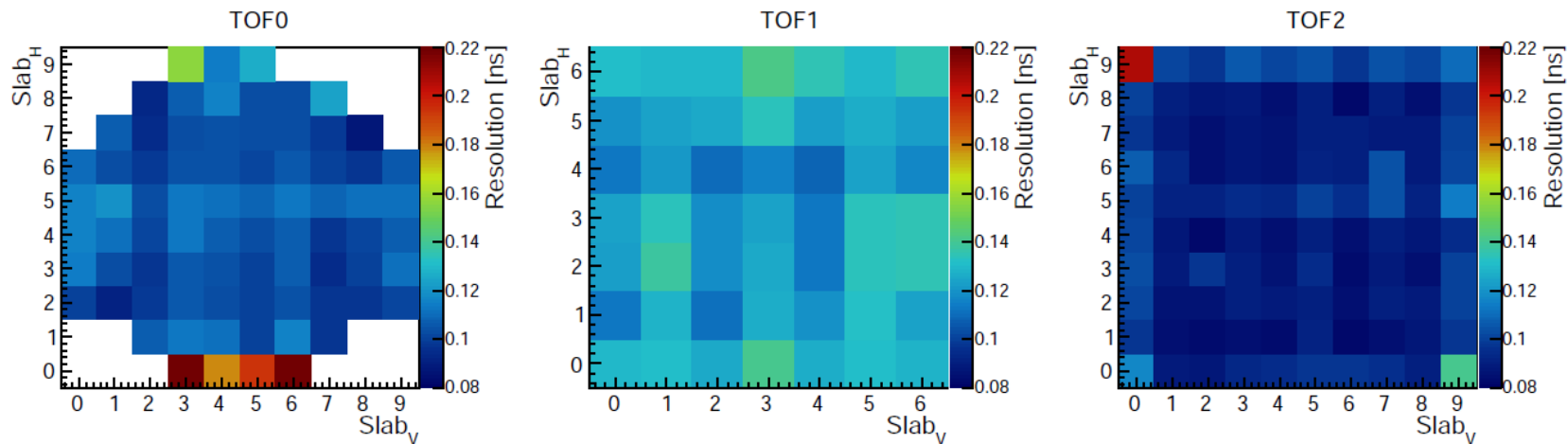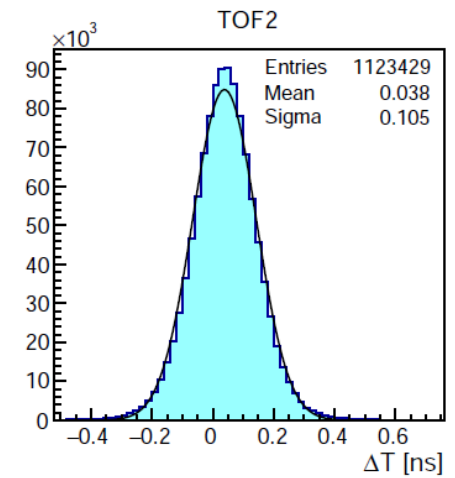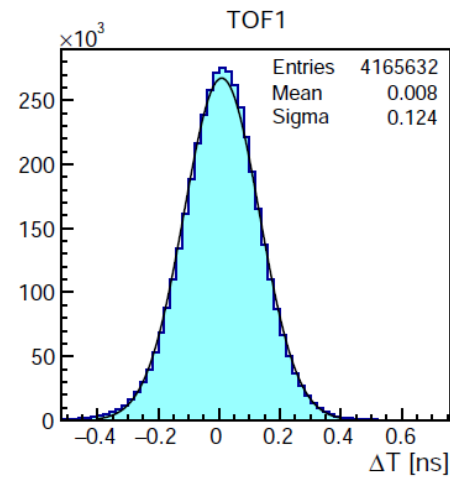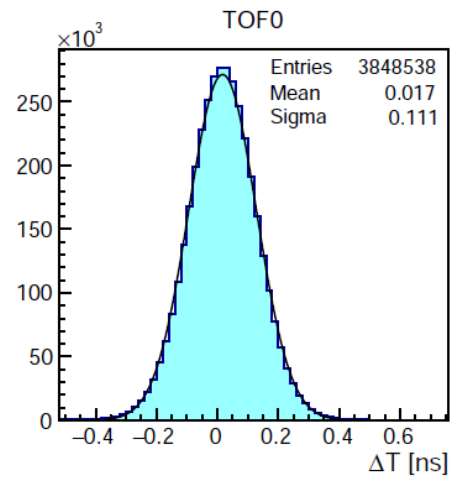
- ## Offset in slab Δt

- ## Resolution in slab Δt
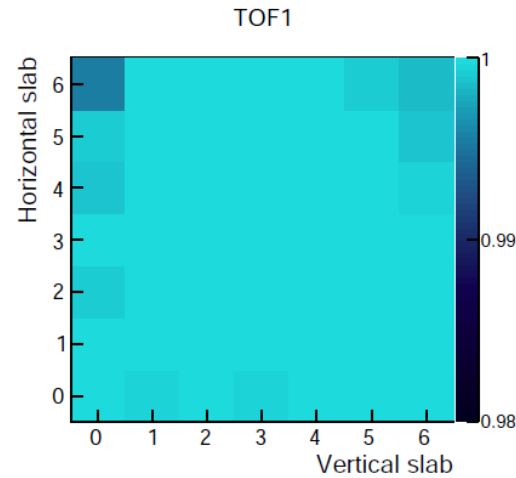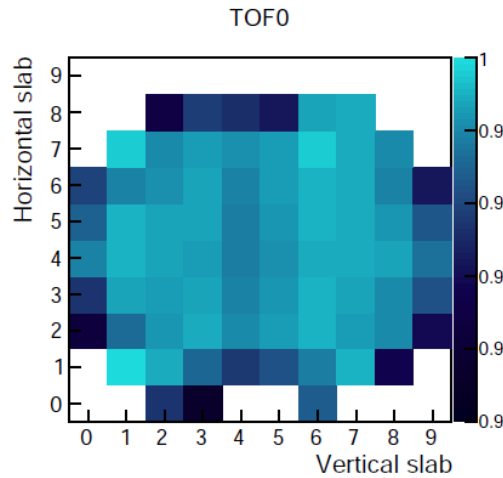

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TOF

- ## Overall Δt distribution
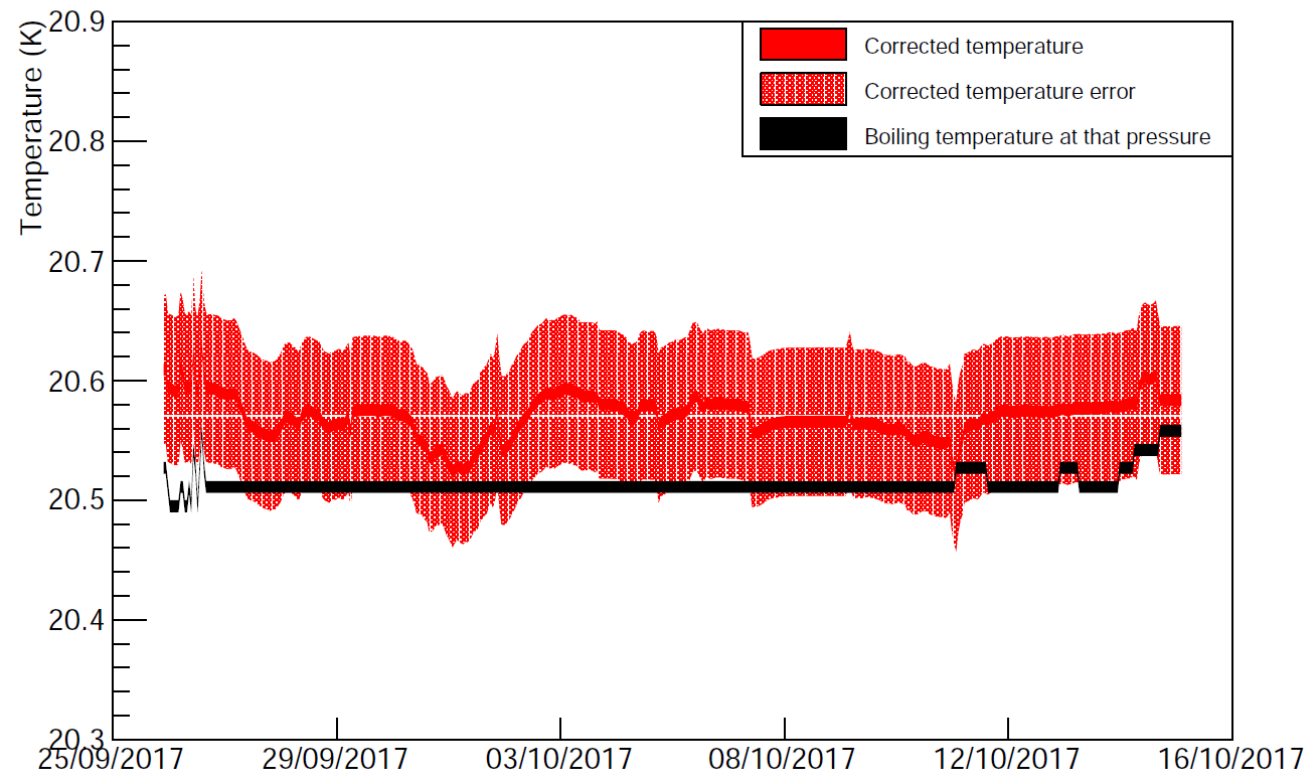

- ## Efficiency in SP creation
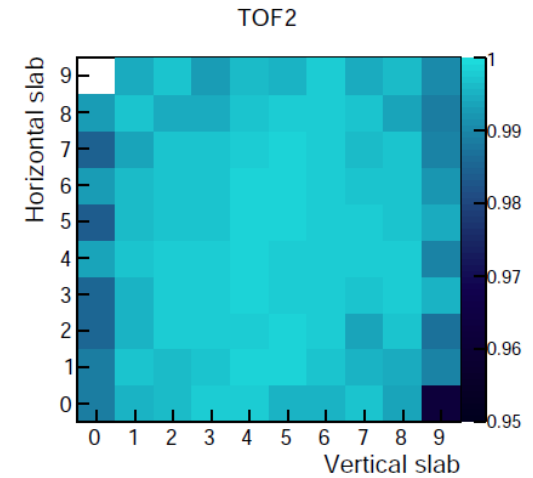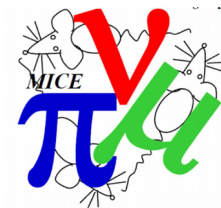
Liquid hydrogen absorber

- Steady state interval with systematic error

Liquid Hydrogen Temperature during steady-state

Details

- Referees: Alan B., Ludovico T.

- Repository:
  https://github.com/pfranchini/MICE-systems-performance-paper

- Few more details
  https://micewww.pp.rl.ac.uk/projects/analysis/wiki/2018-09-18_system_paper