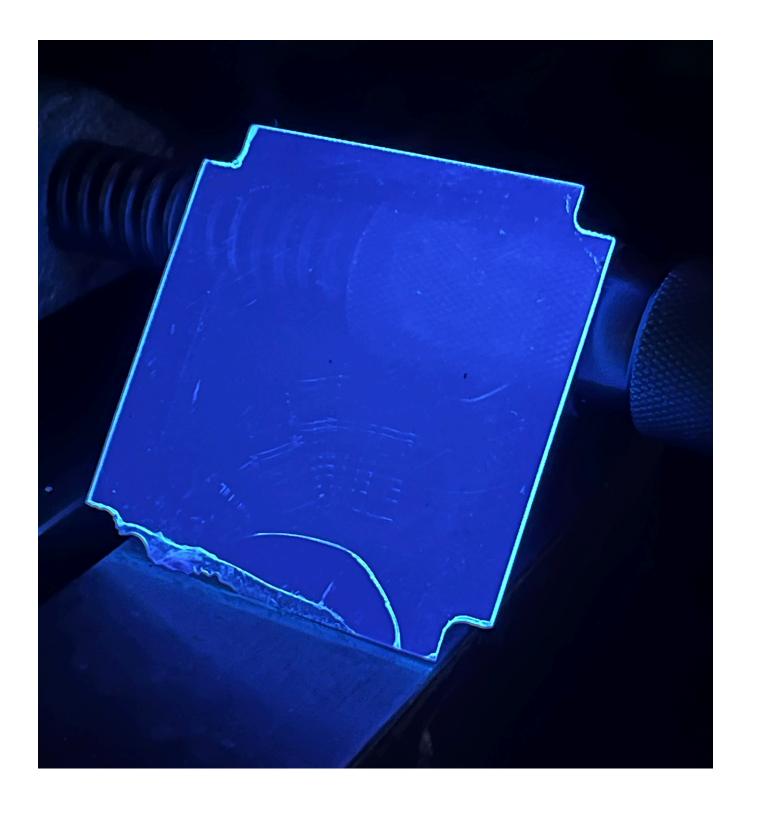


# ST & Trigger update Giacomo Traini



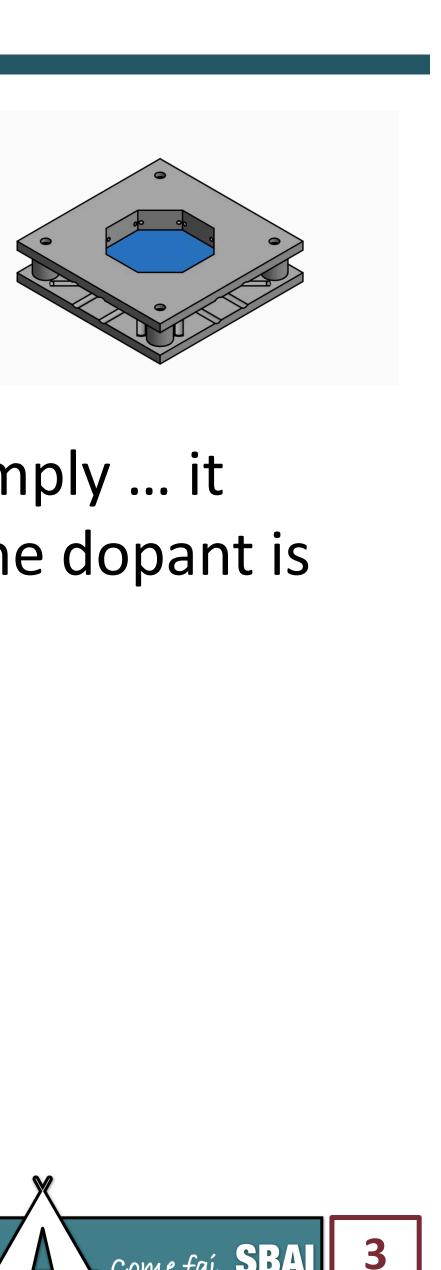
"Battistero" is waiting for the new fas scintillators...

•We tested @ CNAO a prototype but simply ... it does not work! The concentration of the dopant is still too low (3%)



**FOOT general meeting - Perugia 12-14 December** 

12/12/22

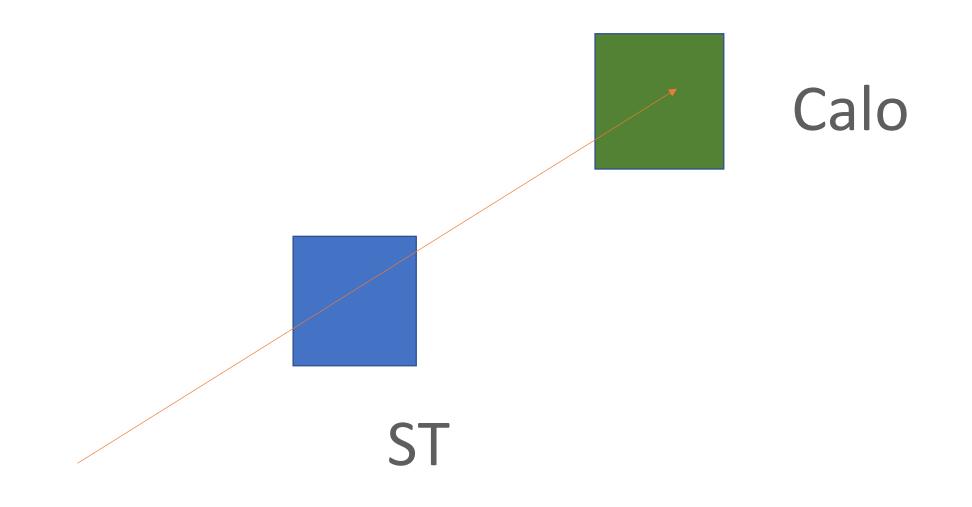




 The ST has been used to trigger the acquisition in the calorimeter calibration scan (excluding some runs with protons)

•O,C,He,p beams has been shot in wide energy range. We had tha chance to review the ST performance with several particles/energies



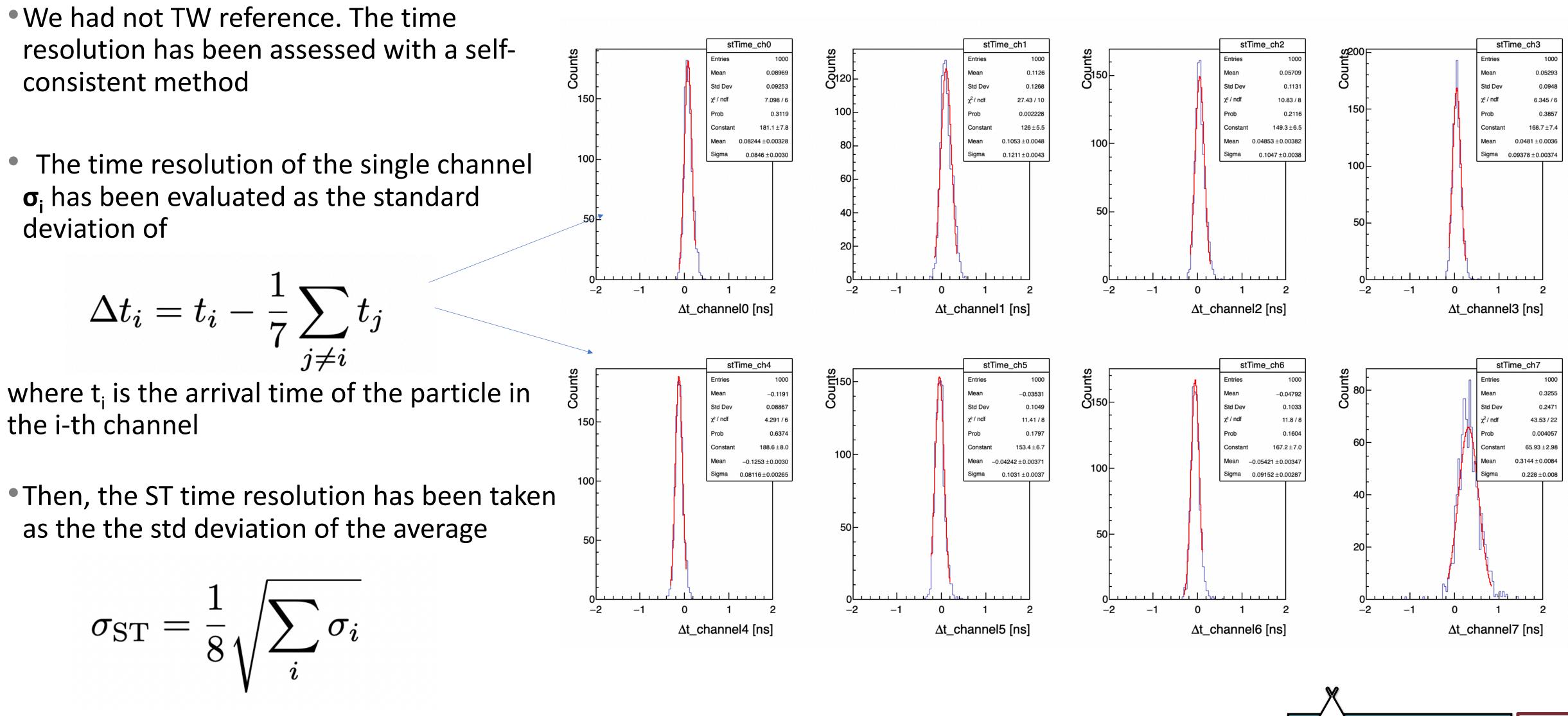




#### **FOOT general meeting - Perugia 12-14 December**



## ST review: time resolution

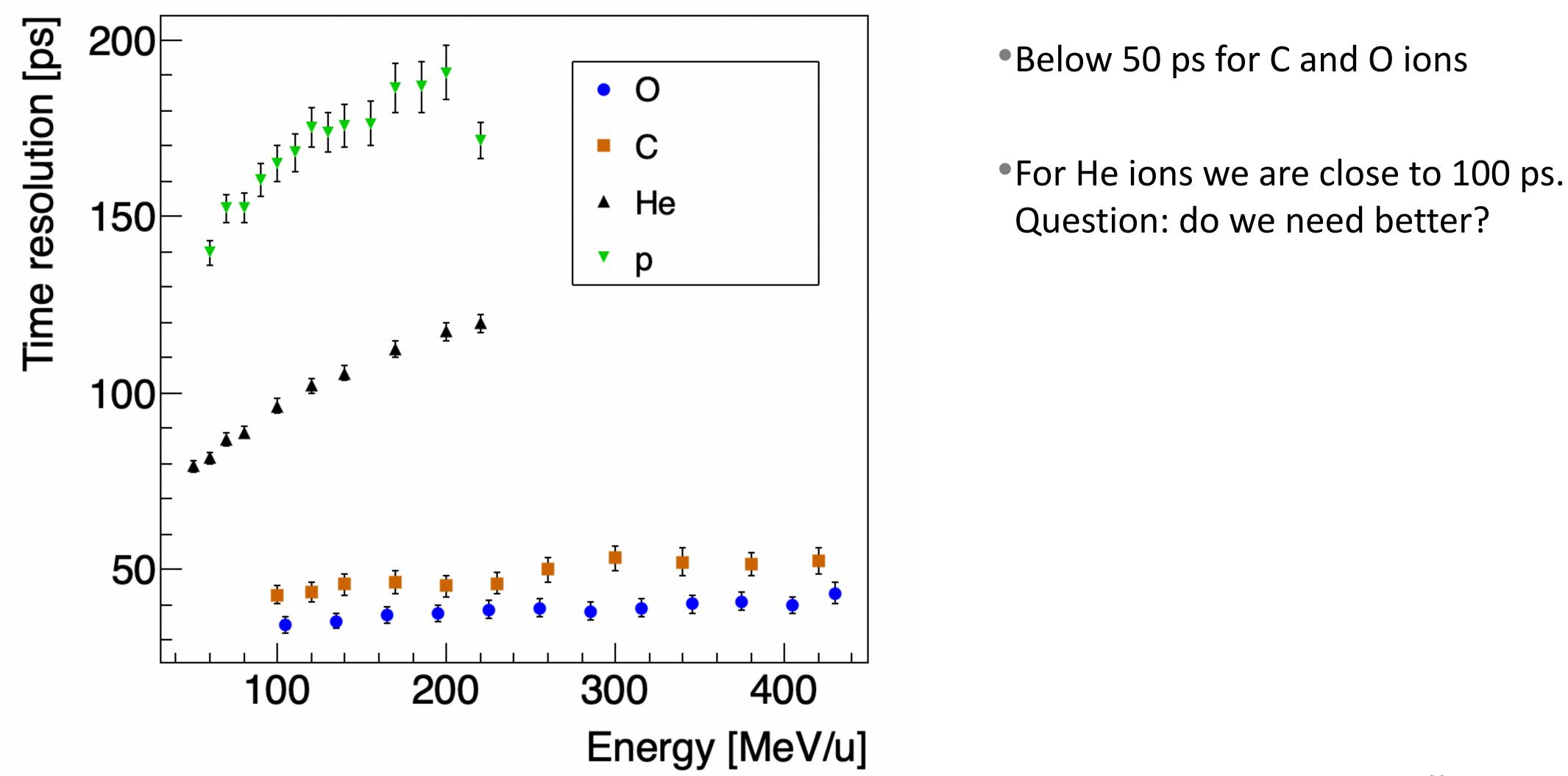


12/12/22



### **FOOT general meeting - Perugia 12-14 December**

### ST review: time resolution



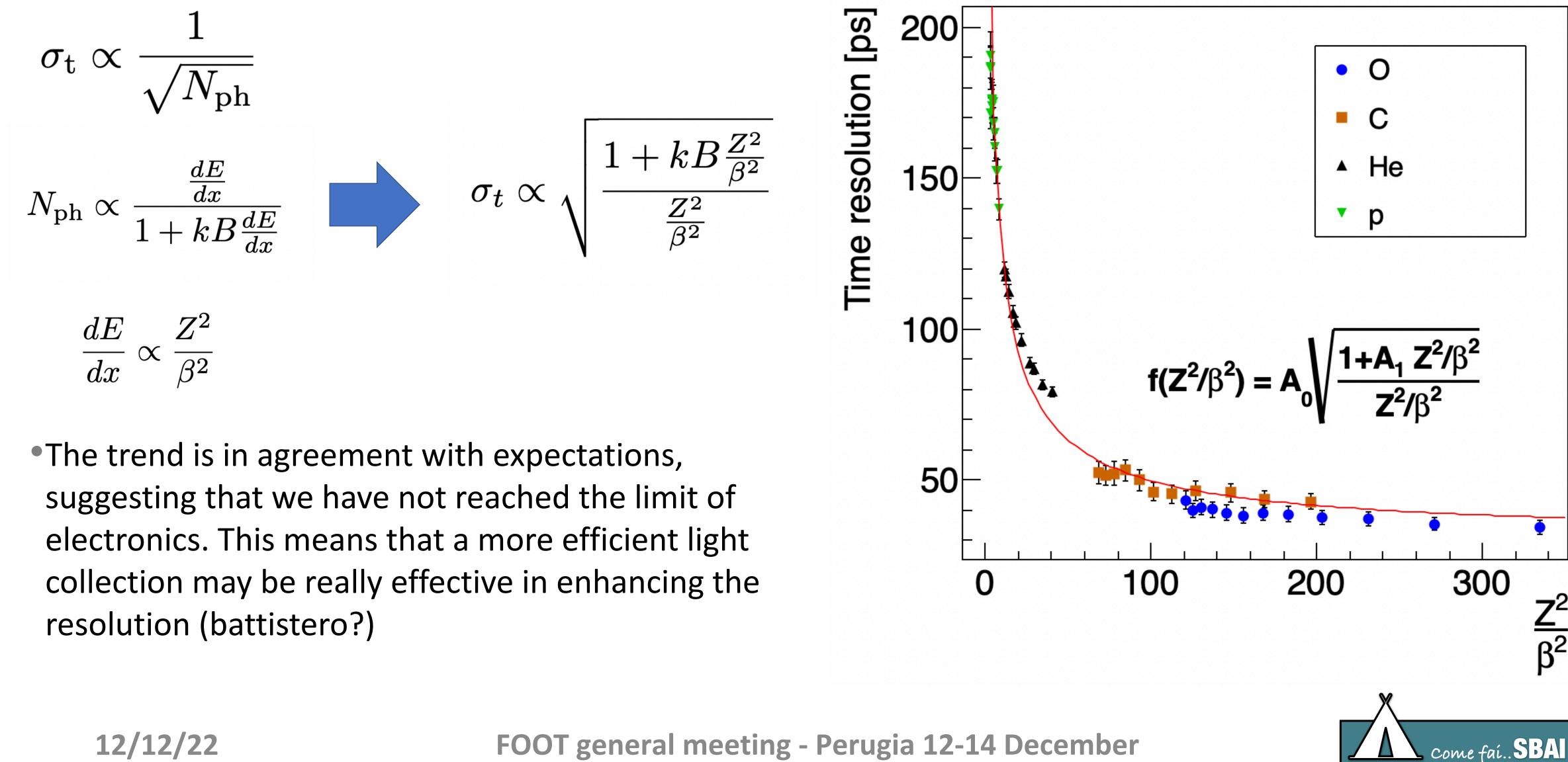
12/12/22

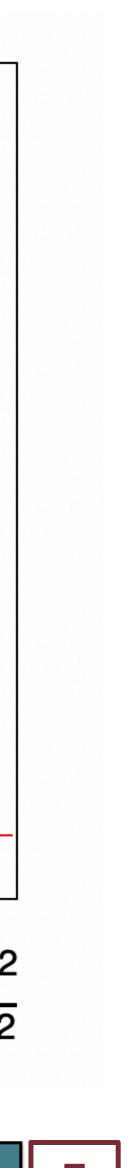






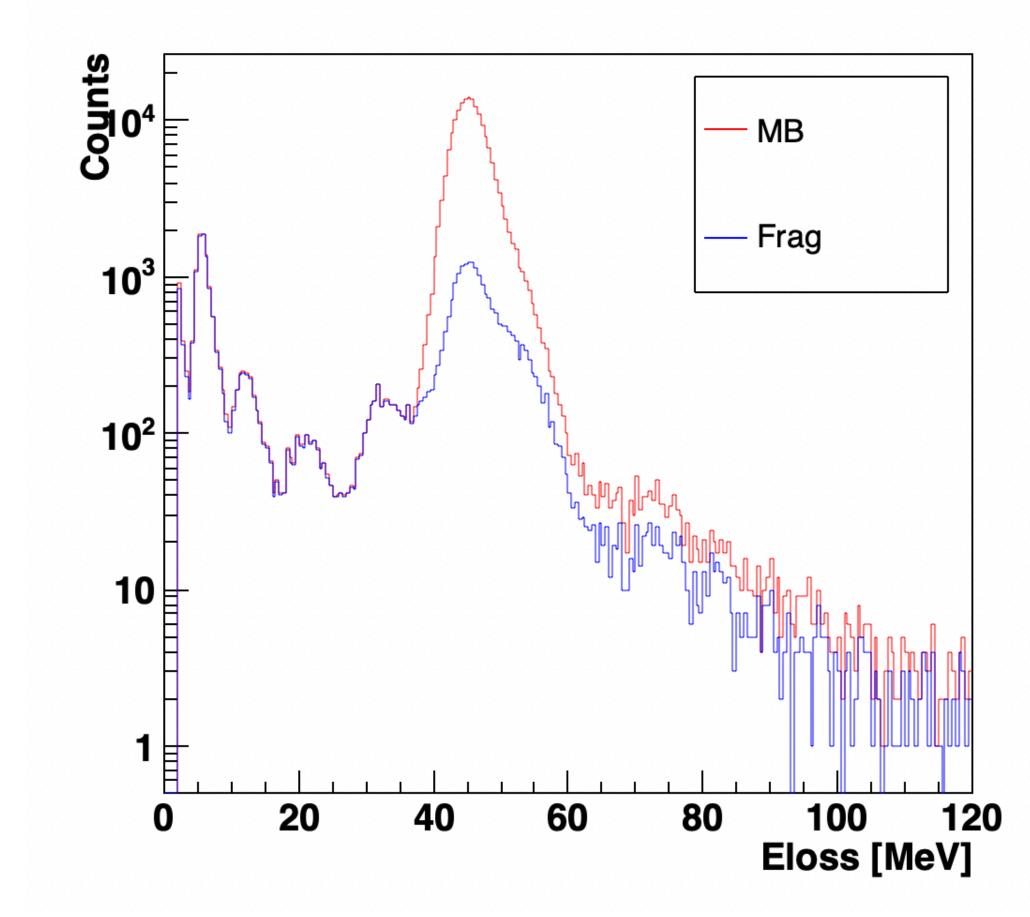
### ST review: time resolution







### CNAO2022, C @ 220 MeV/u on C target



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12/12/22



- Used both @HIT and @CNAO with different gains (~10 @ HIT, ~2 @CNAO)
- •CAVEAT: we understood that we can not boost the beam rate so much, which translates in a lower gain
- •Future developments: OR of full calo, backdate to old prescaling system



