Explorative Timing Outlook - Data & Simulation

August 23th, 2018

Tokyo Analysis Workshop

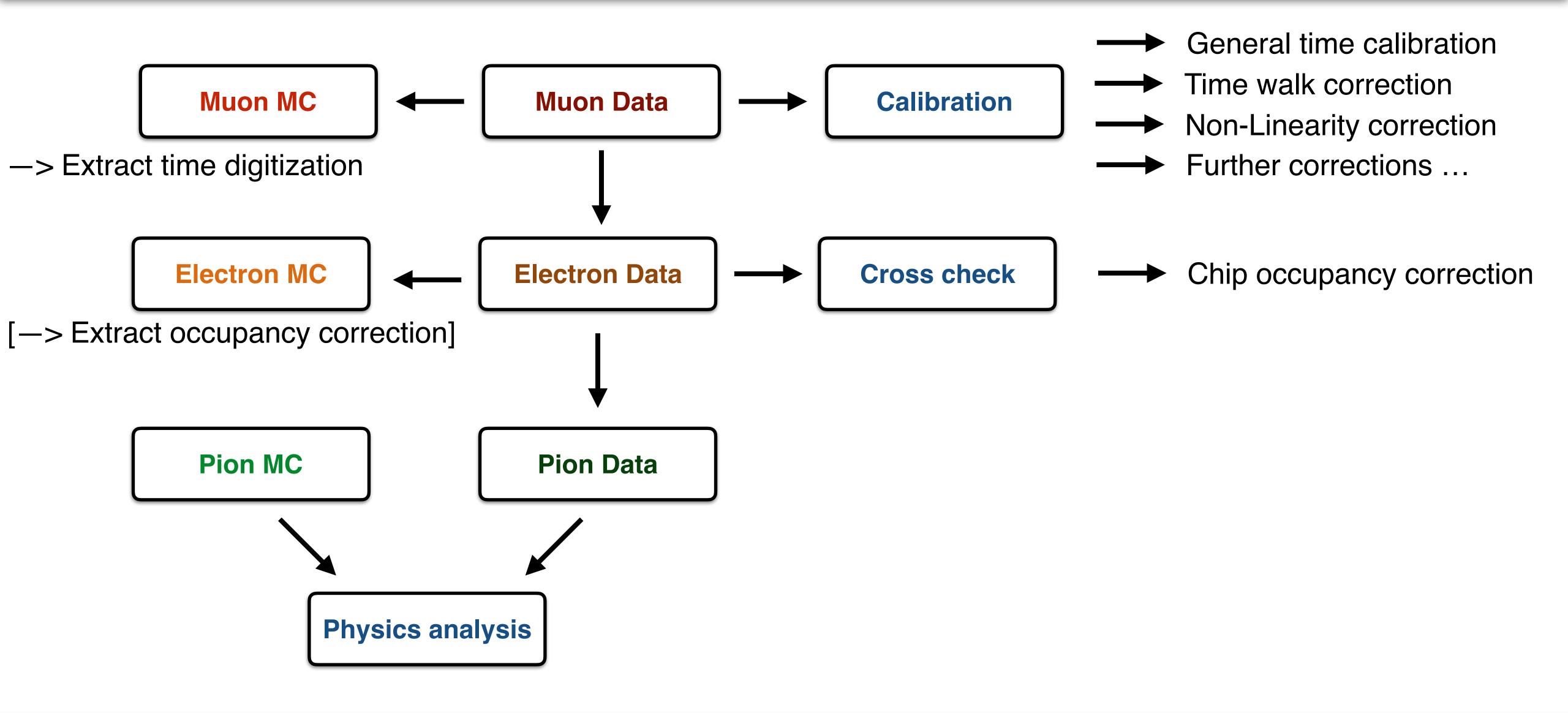
Christian Graf





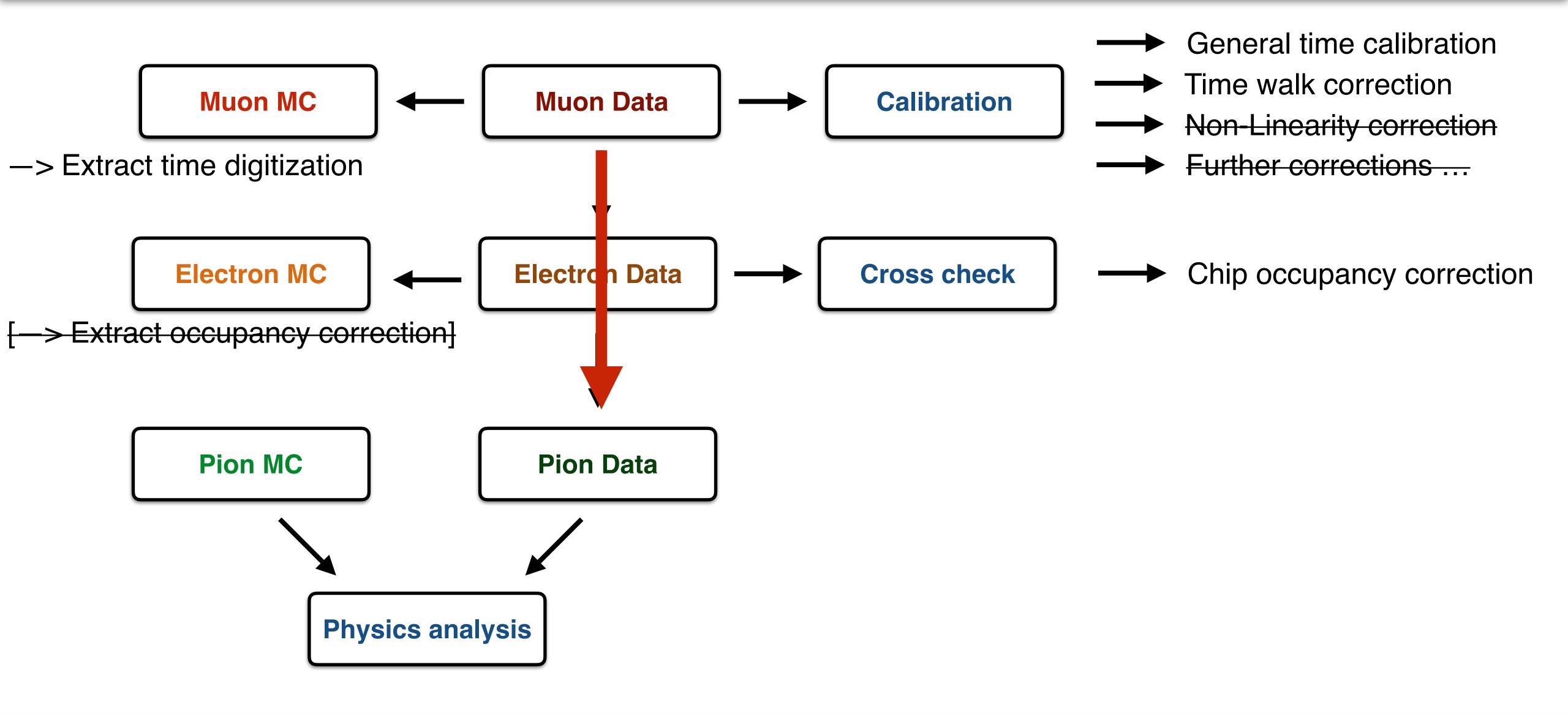
Timing Analysis Overview





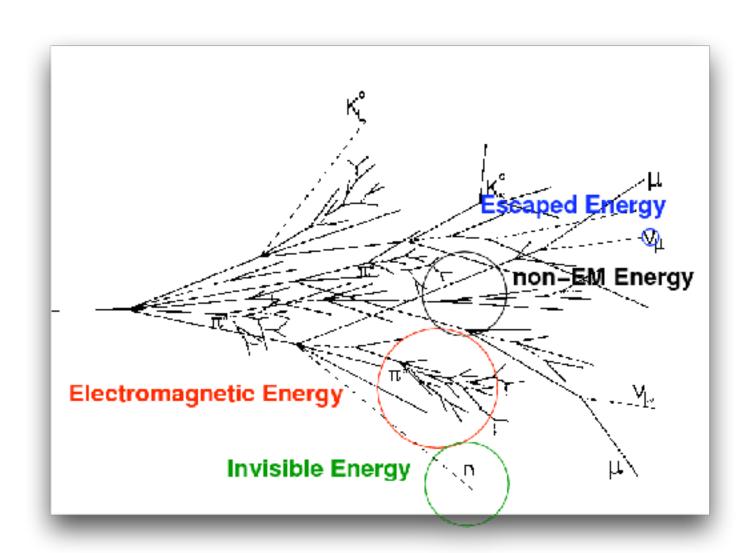
Timing Analysis Overview

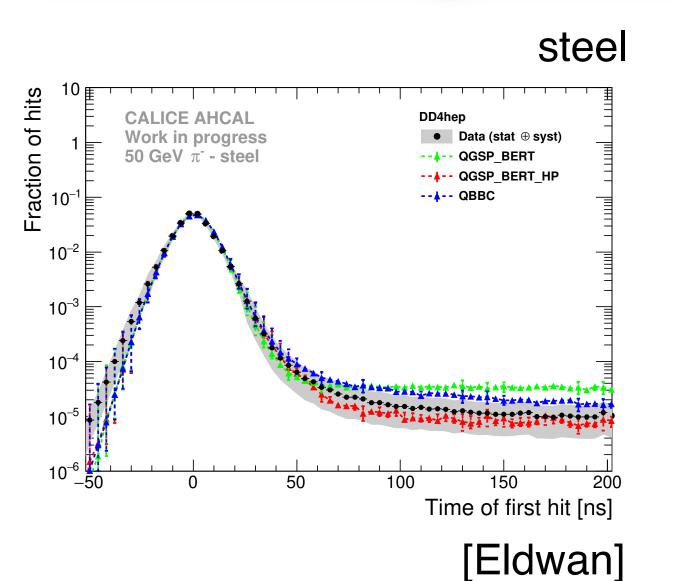


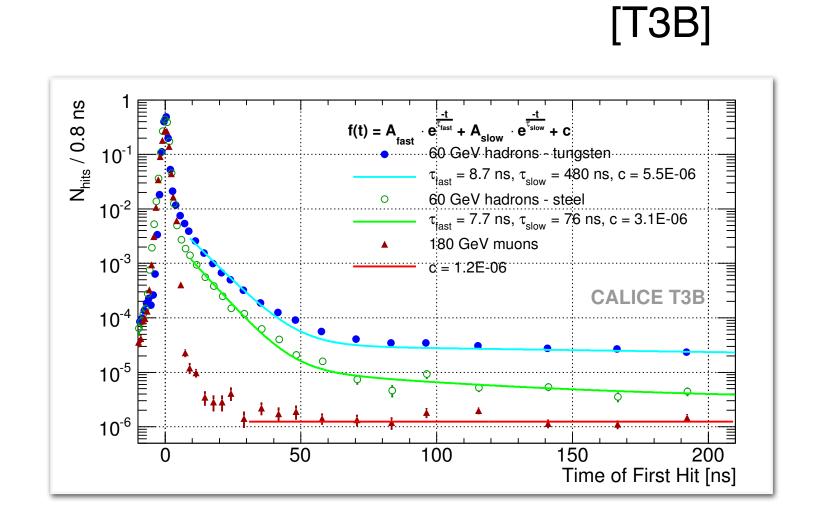


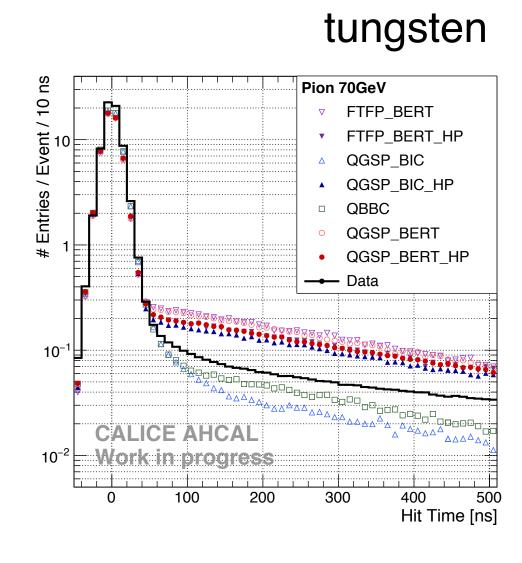
CALICE Timing

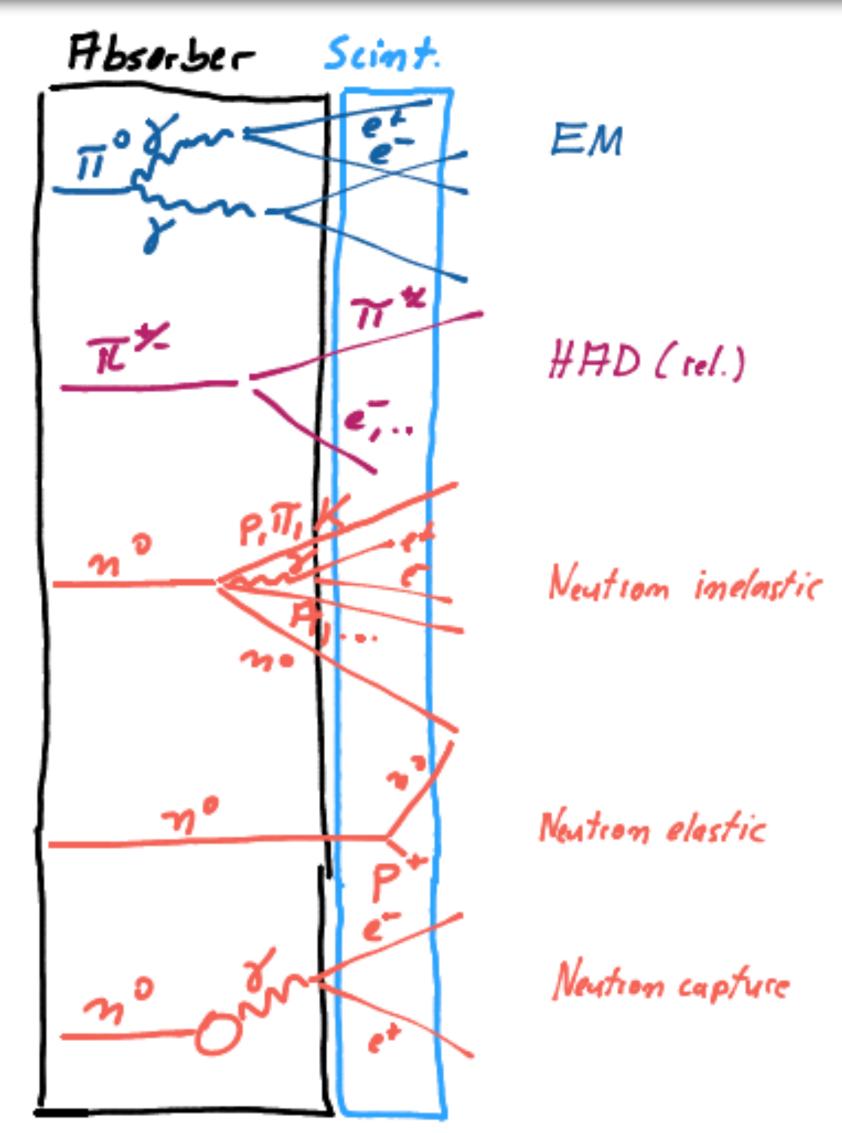






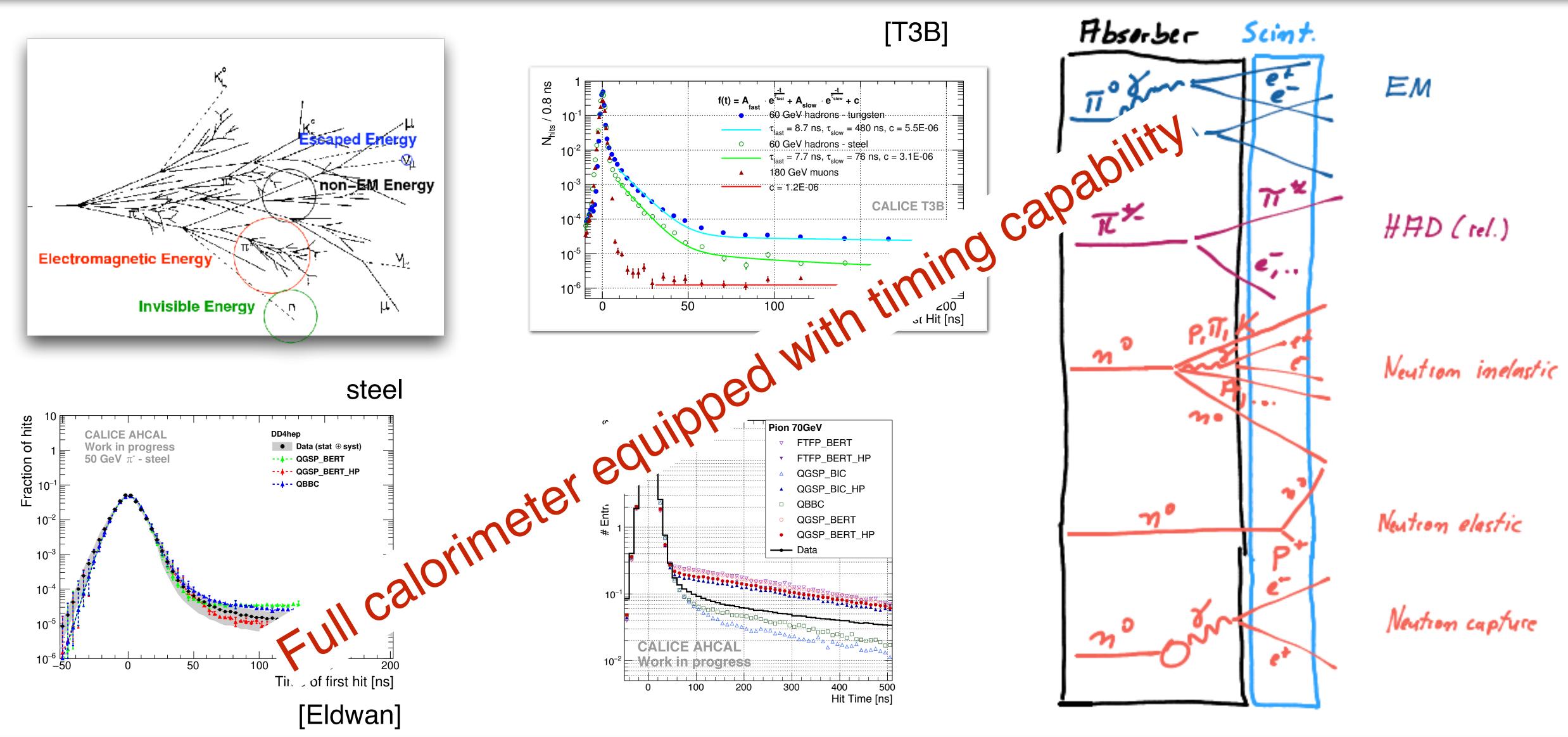




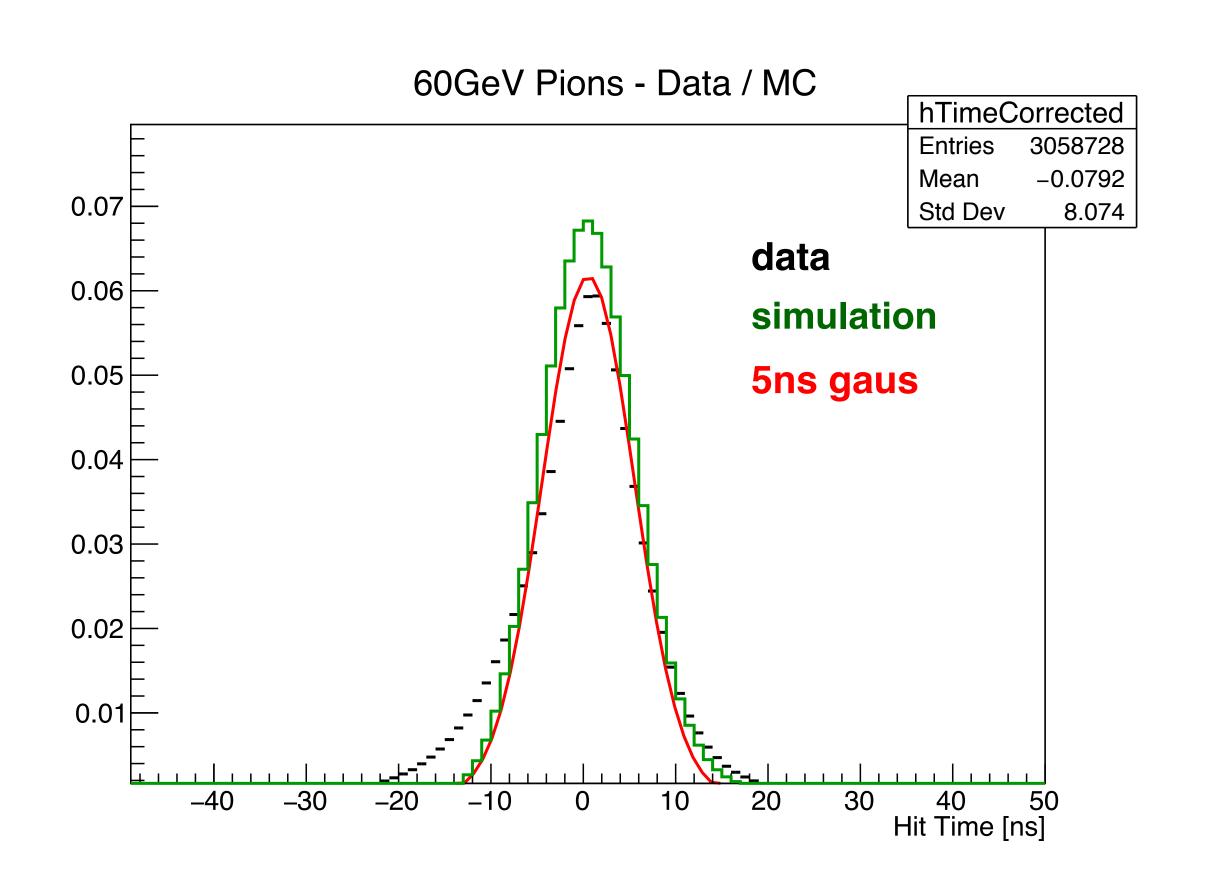


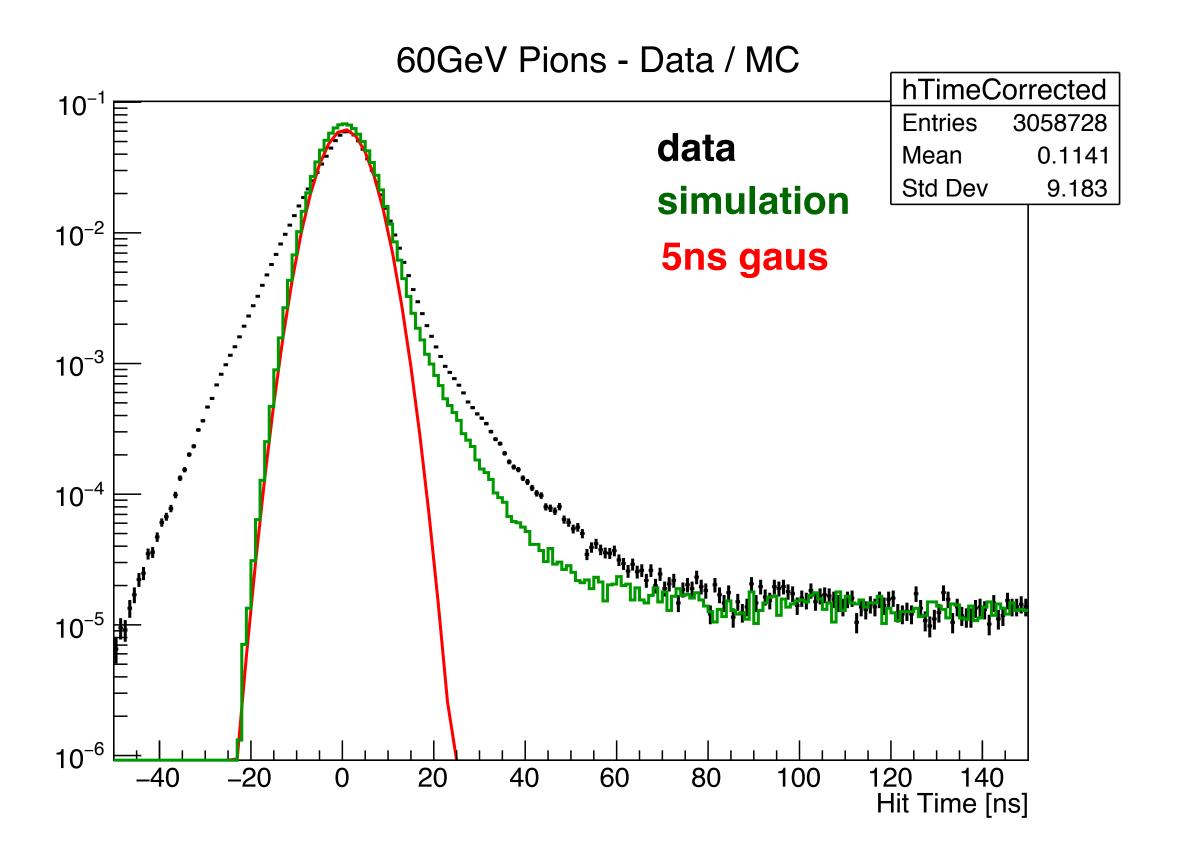
CALICE Timing



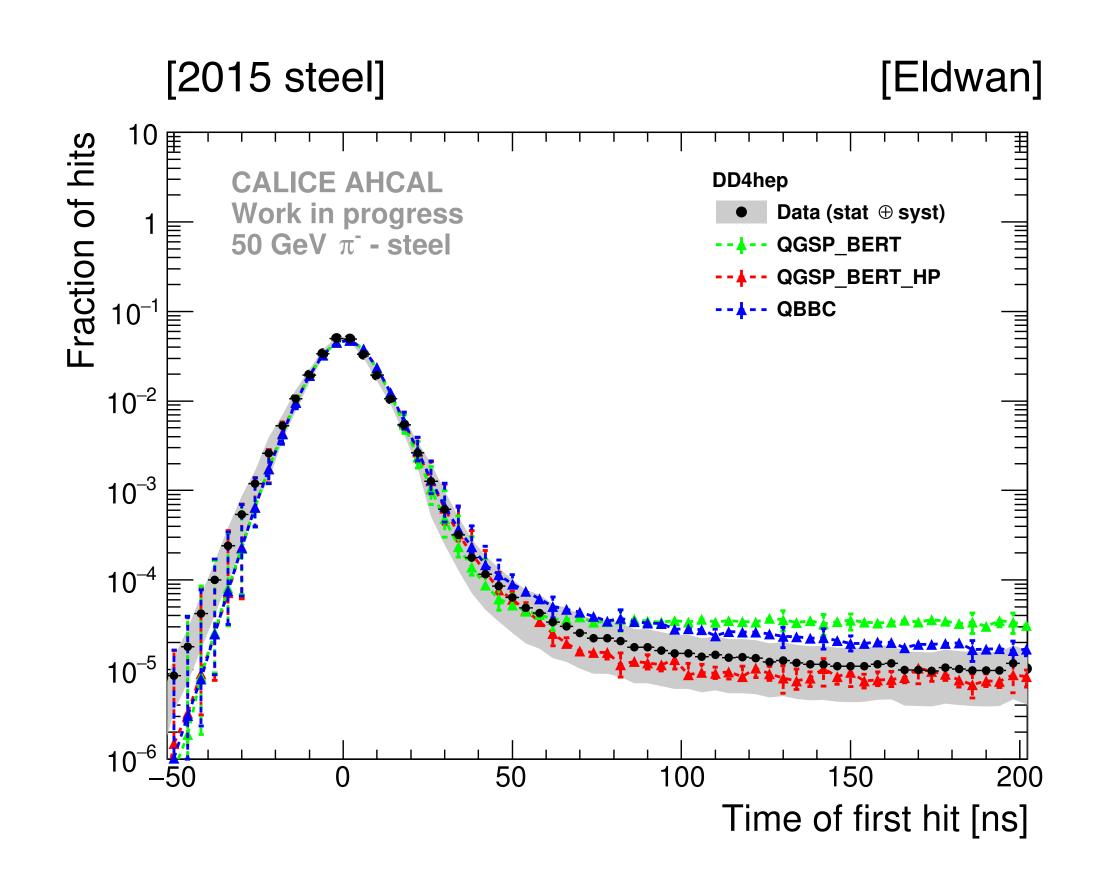


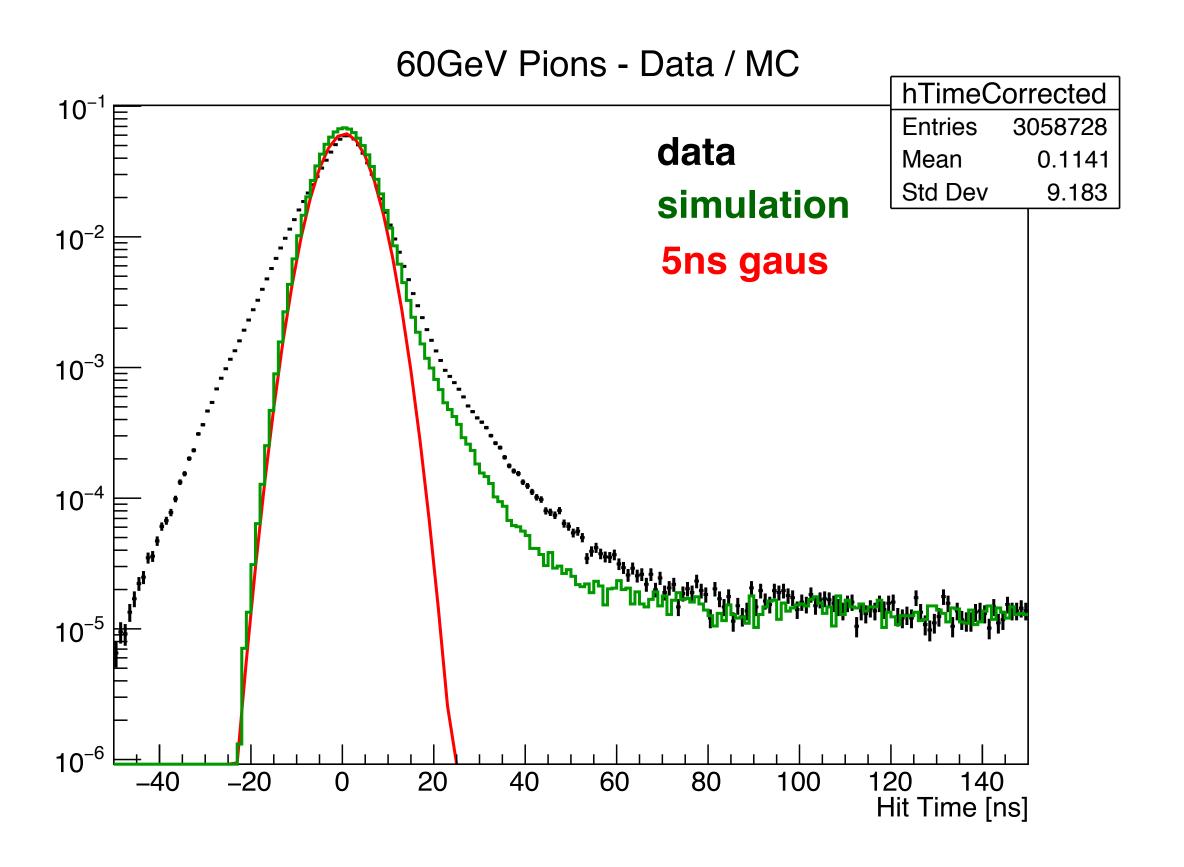




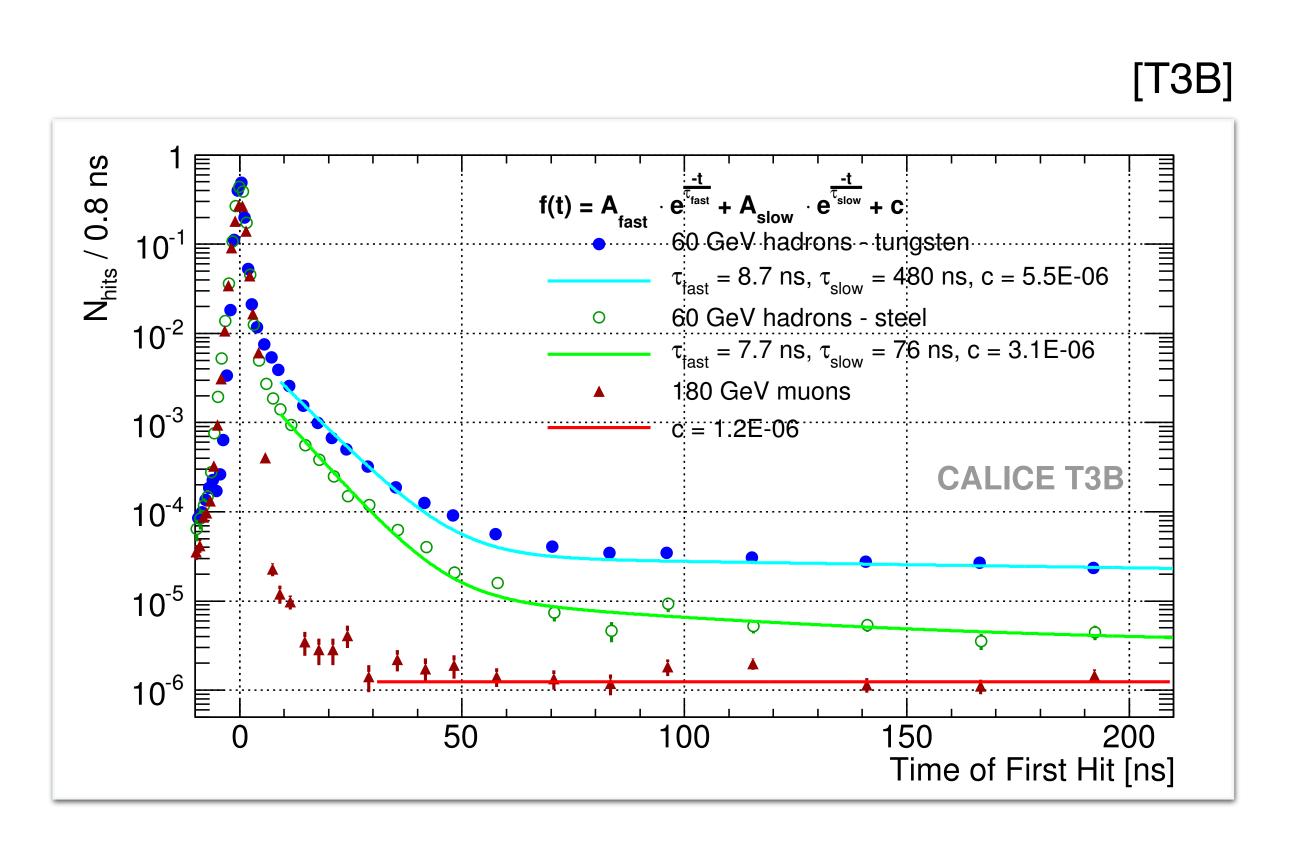


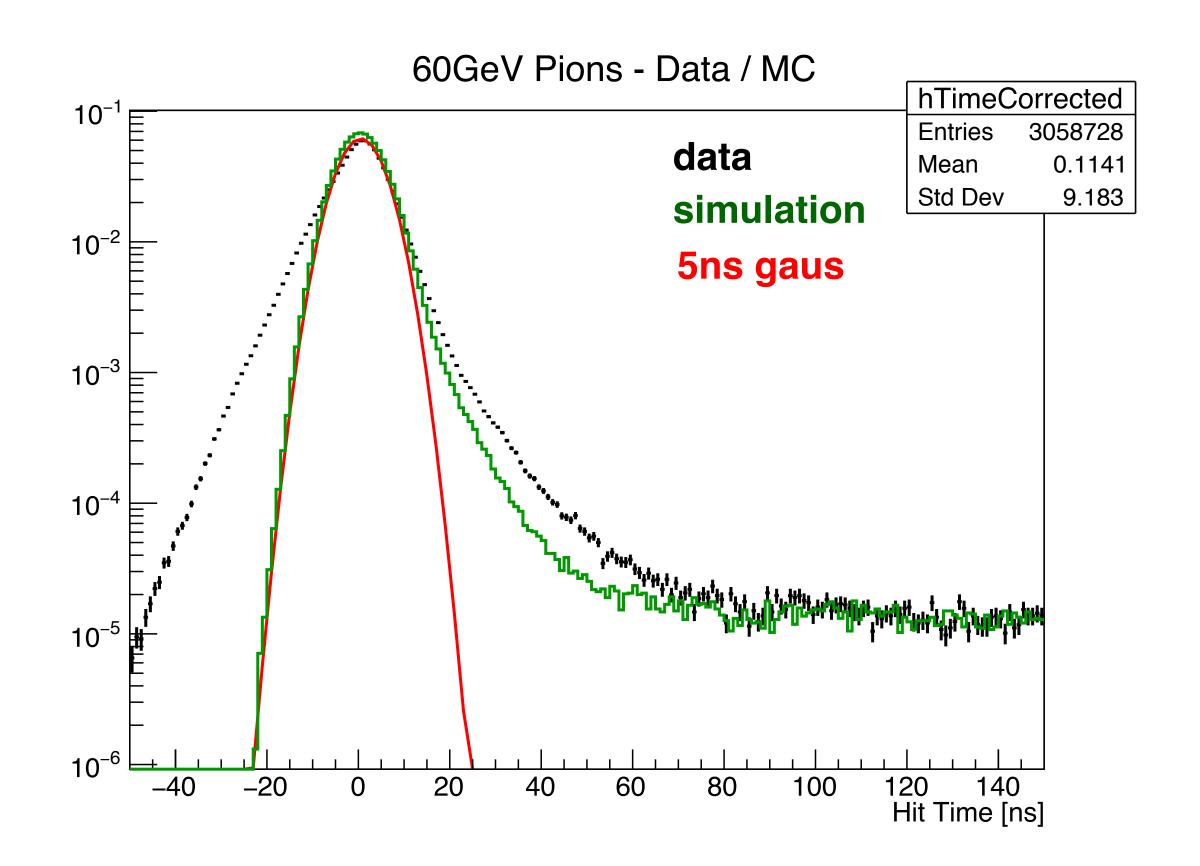






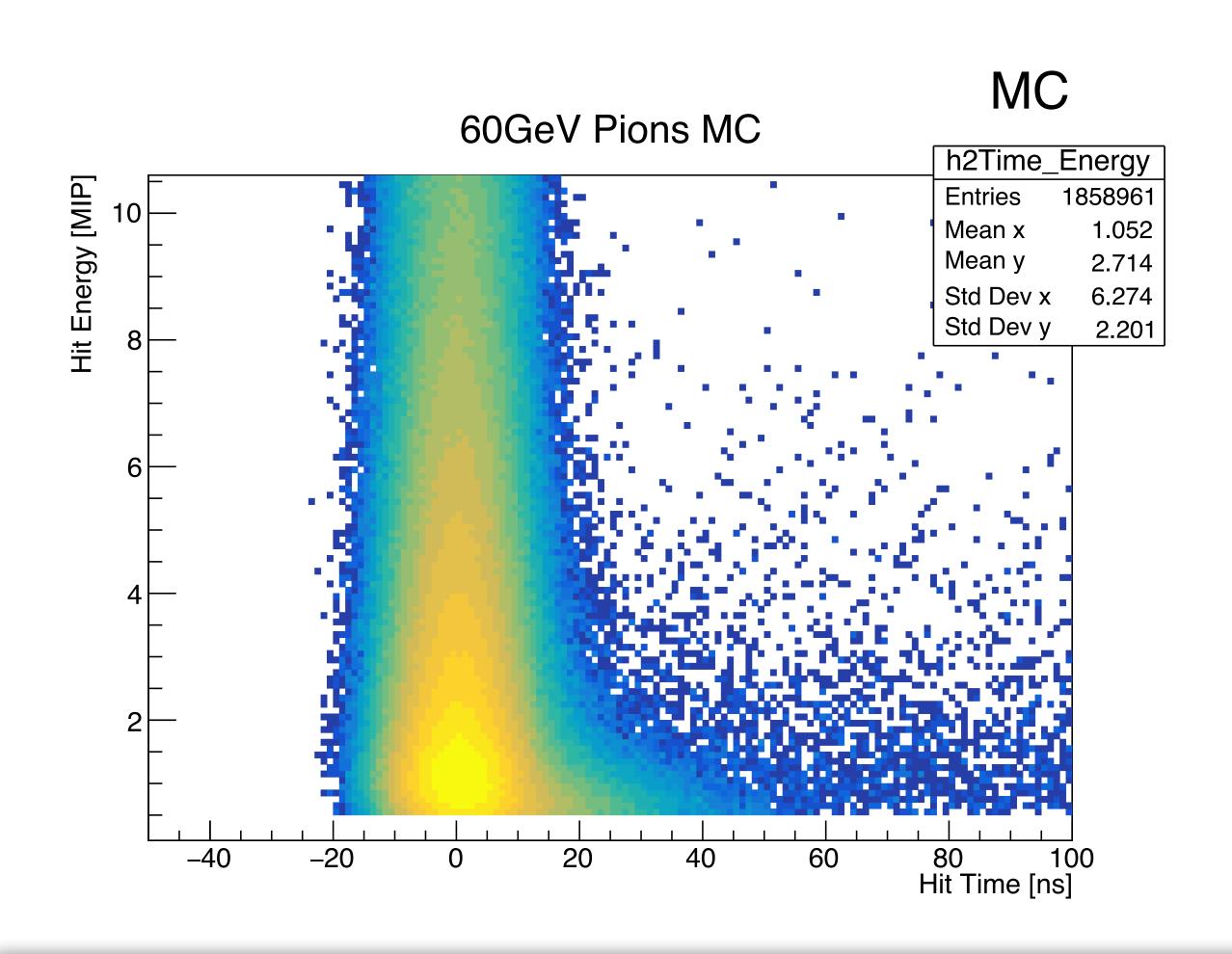


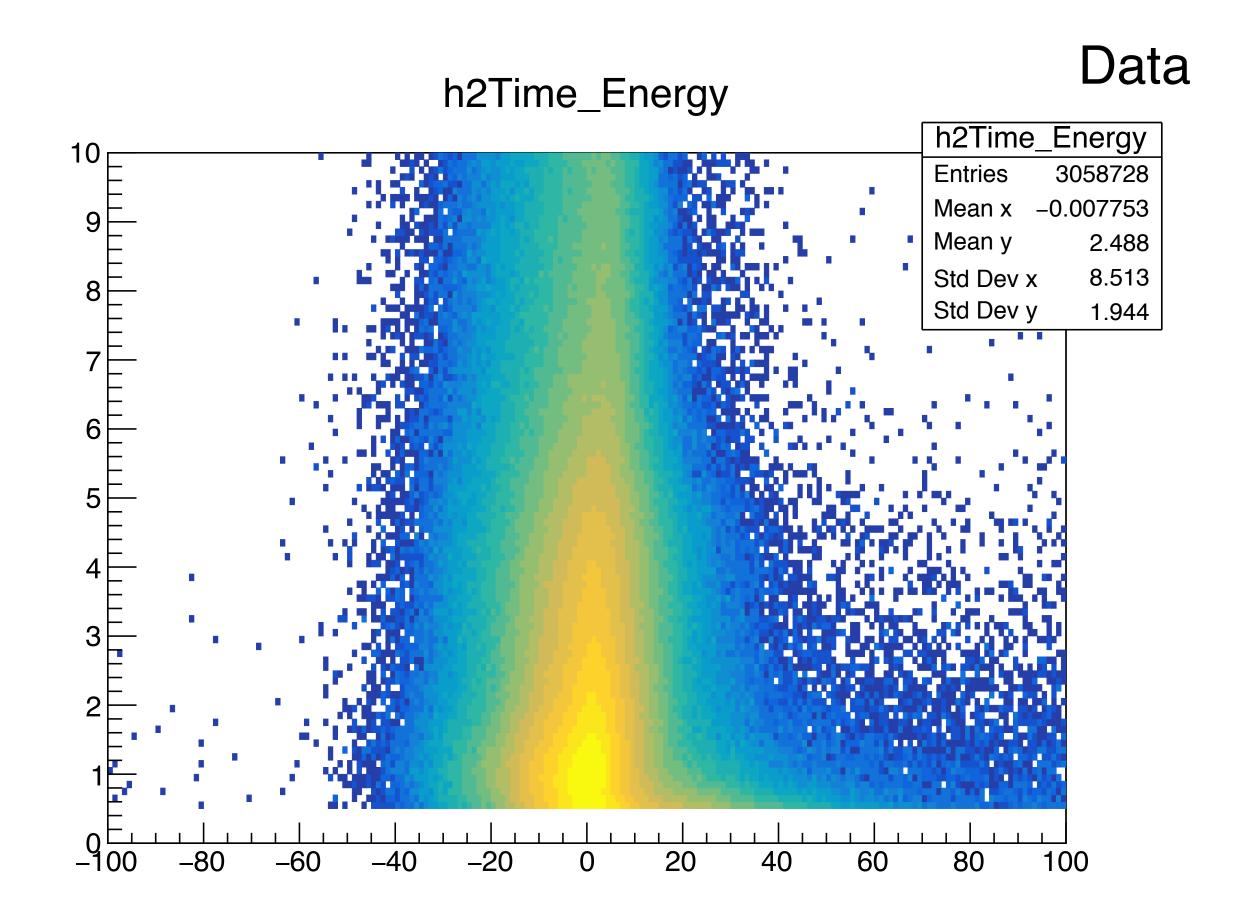




Time vs Energy

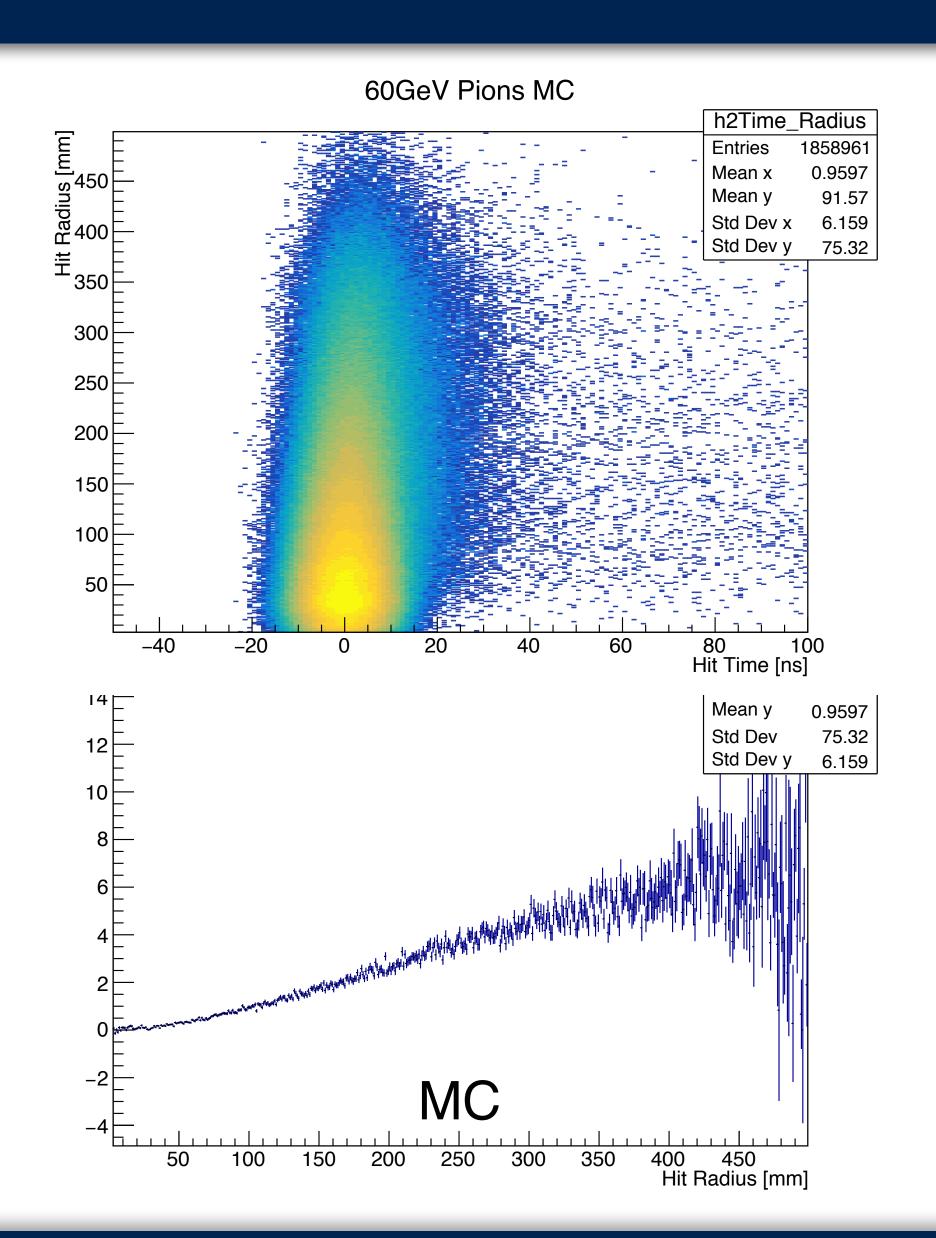


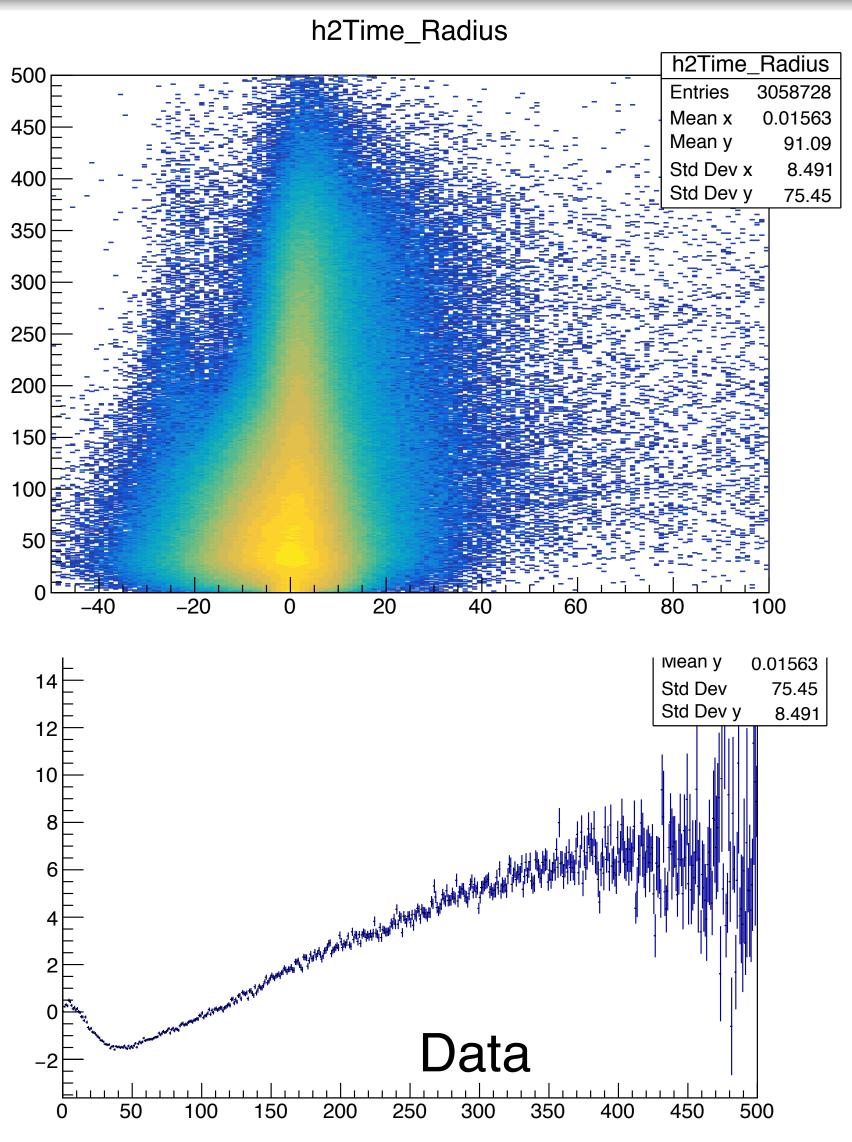




Time vs Radius

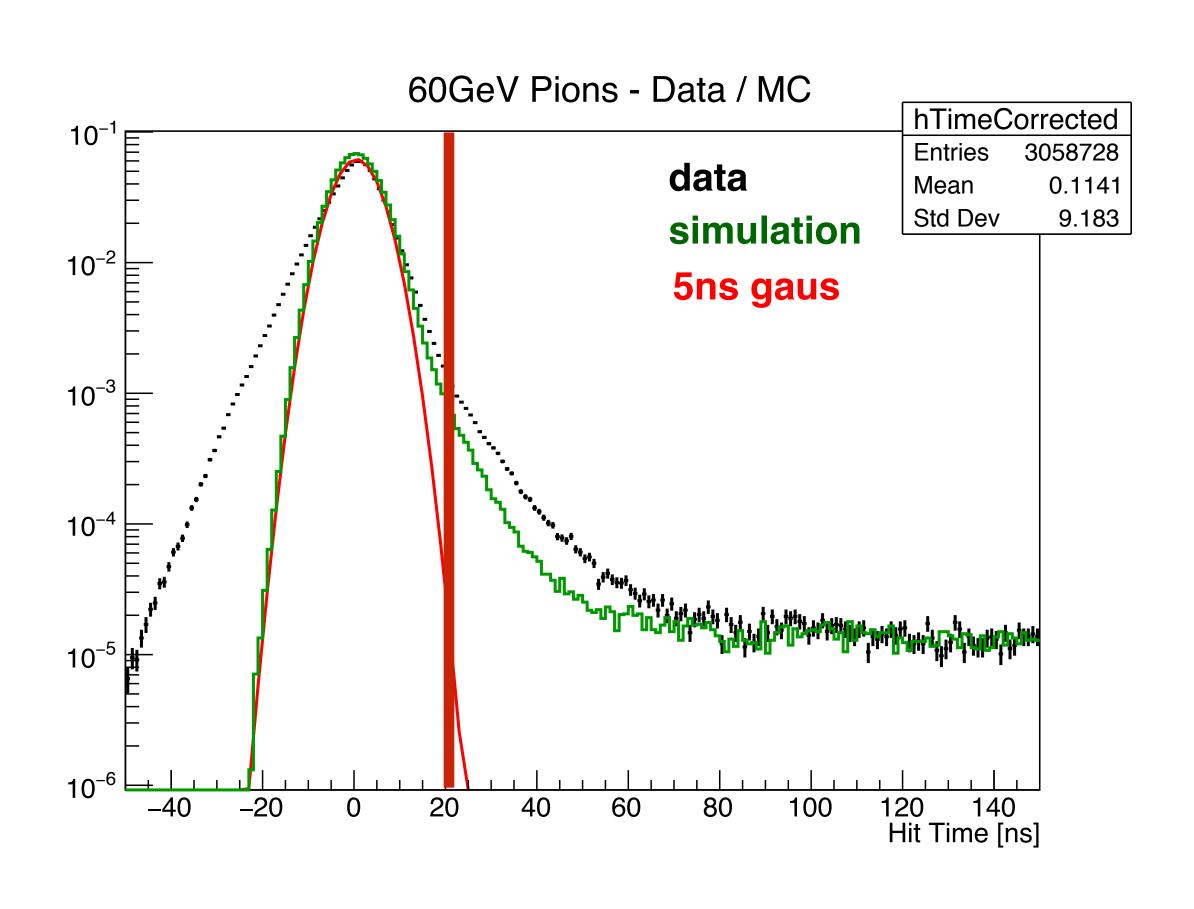


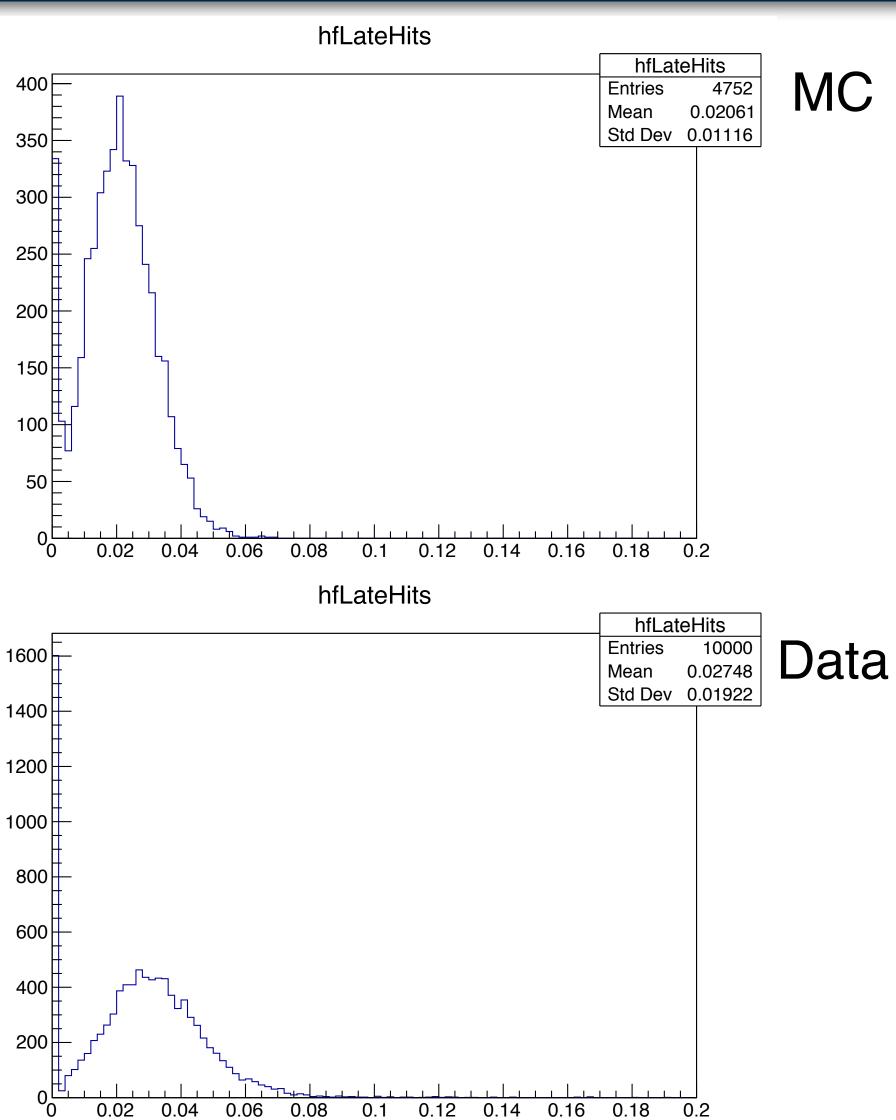




Fraction of Late Hits

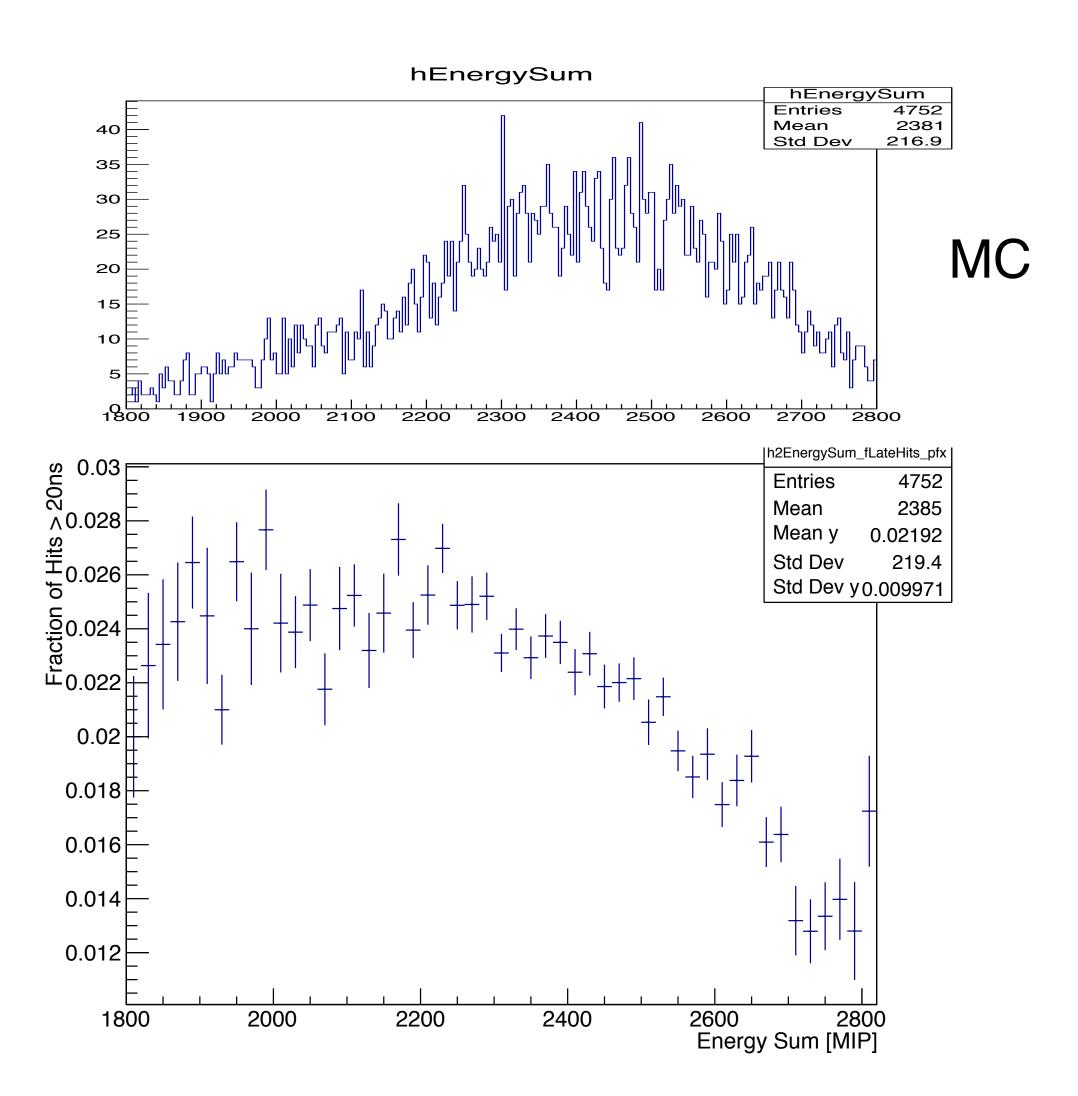


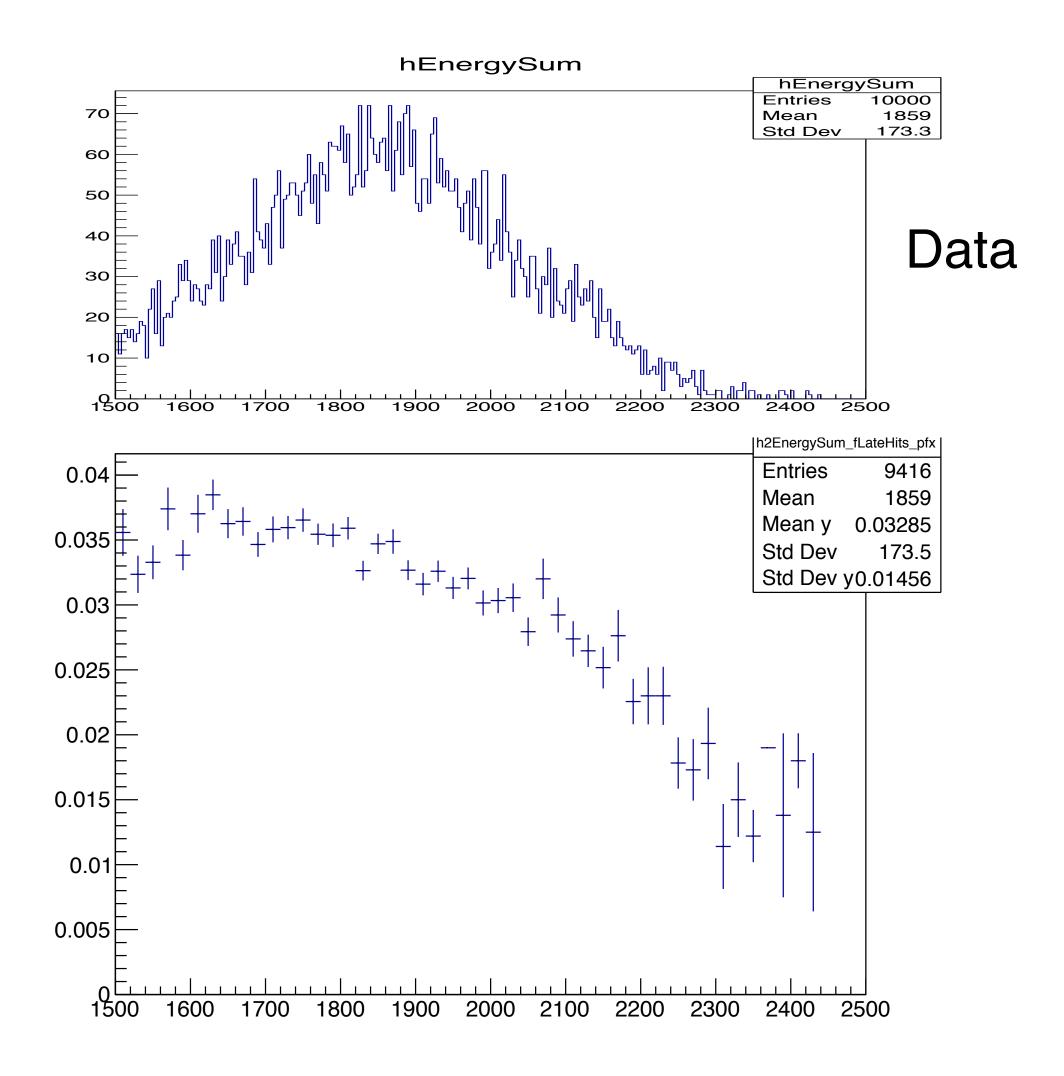




Fraction of Late Hits

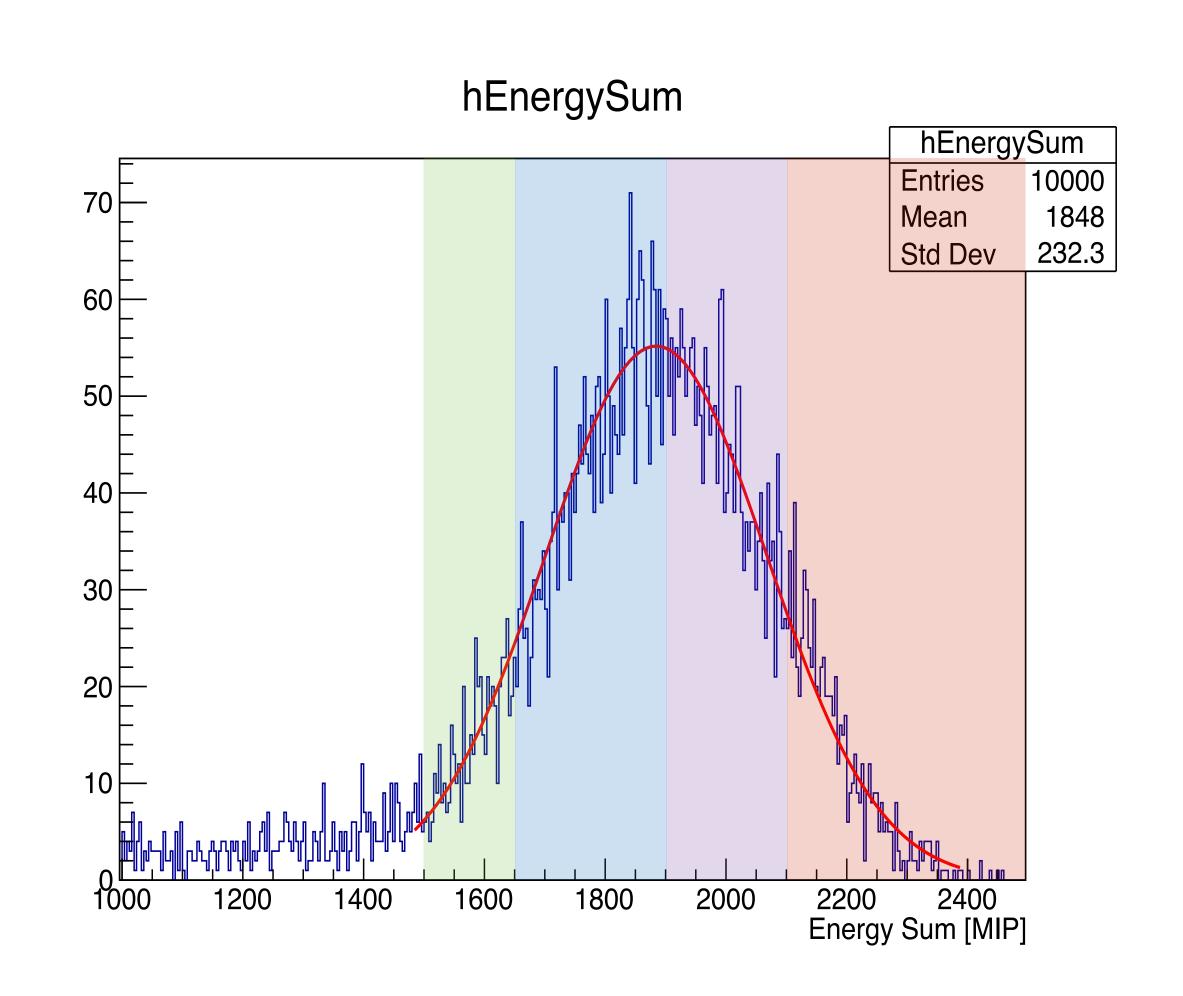


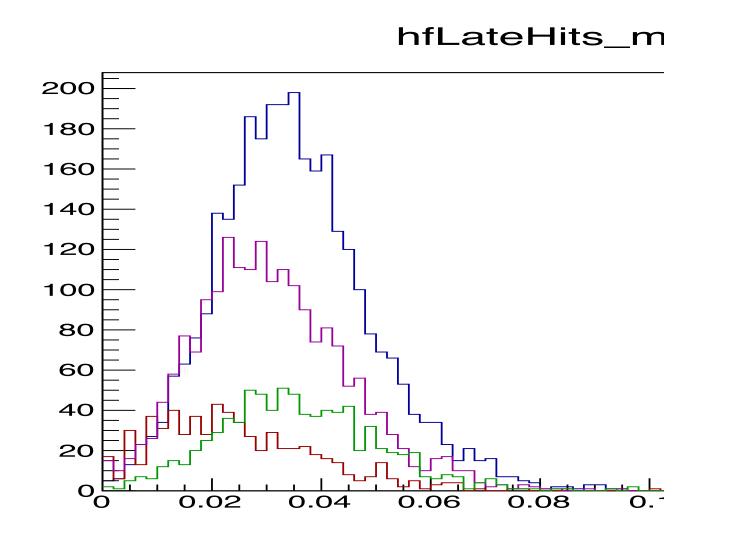


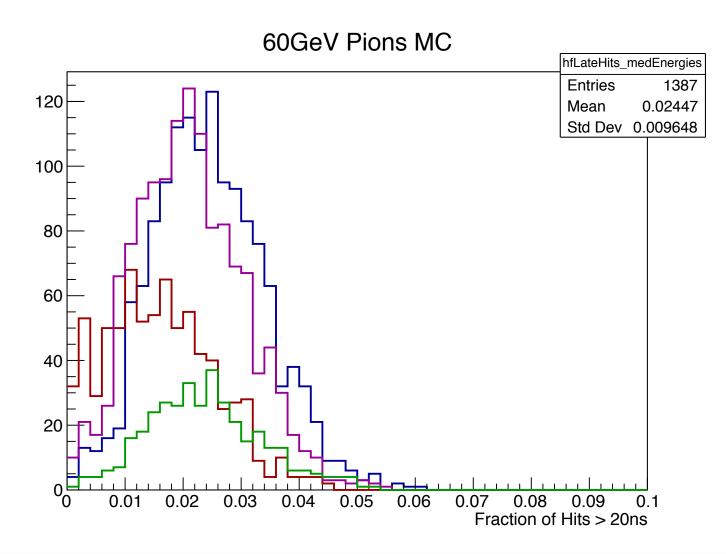




MC







Data

Summary



- We are still at the beginning of the time analysis!
- Many features to check
- For every serious analysis: proper calibration / event selection
- But: time resolution already in the same ball park as for 2015 test beam
- · Pions comparison between data and MC looks reasonable at current state
- Correlation between late hits and energy sum visible in data & MC
 - —> handle for software compensation?