SHOE

Intro

- Lot of work done for the test beam, thanks to everyone!!!
- Now 2 paths:
  - Run and analyse the test beam data. Learn and improve software strategies.
  - Ready for the future: full FOOT setup

Test Beam

- Software worked well reading and processing data!
- Each expert is analysing their detector performance
- Single detector combination:
  - Inserted flat tree production by Alberto and analysed on a separate code (Roberto)
  - We should improve inter-detector communication directly in SHOE to have an "online" control on alignment, response, tracking ...
- Execution time ~ 2s per events -> should be reduced in future:
  - Fast software "trigger" to select only good events
  - Optimise operations and reduce prints
- Uniformity of measurement units (cm, ns, GeV, ...)
- Data/MC comparison...

Future

- Need to add the missing detector:
  - IT (responsible Chris)
  - MSD (responsible Riccardo?)
  - CALO (responsible Lorenzo)

- Structure similar to other detectors. Main work on Geometry (MC) and Mapping (data)

- Uncovered parts: Scintillator, help on MC. Help in any part is more than welcome!!!

- Plan is to spend the summer to harmonise and test data/MC. Simplify, cleanup and make the system more user-friendly. More stable and less hardcoded.
  - After that an fast tutorial can be organised.