FOOT DAQ & Software meeting

Some infos, updates, all that

Bologna 12 Luglio 2016

Vincenzo Patera

Money, money, money…

- Taiuti communicated us the approval (informal until September) of our proposal: scientific program has been judged very interesting and time/financial profile reasonable
- CSN3 also warns us about possible (sure) cut of our requests, whose amount is not clear
- Hard cut next year to overcome the ALICE financial peak of 2017, with a compensation in the funding profile during the following years
- We should be ready to defend/discuss our requests with the referees (not yet appointed) in September, keeping in mind the strategy to start working anyway even with a heavy cut (40 % ?)
- It's highly advisable to go from 10% to 20% in FTE

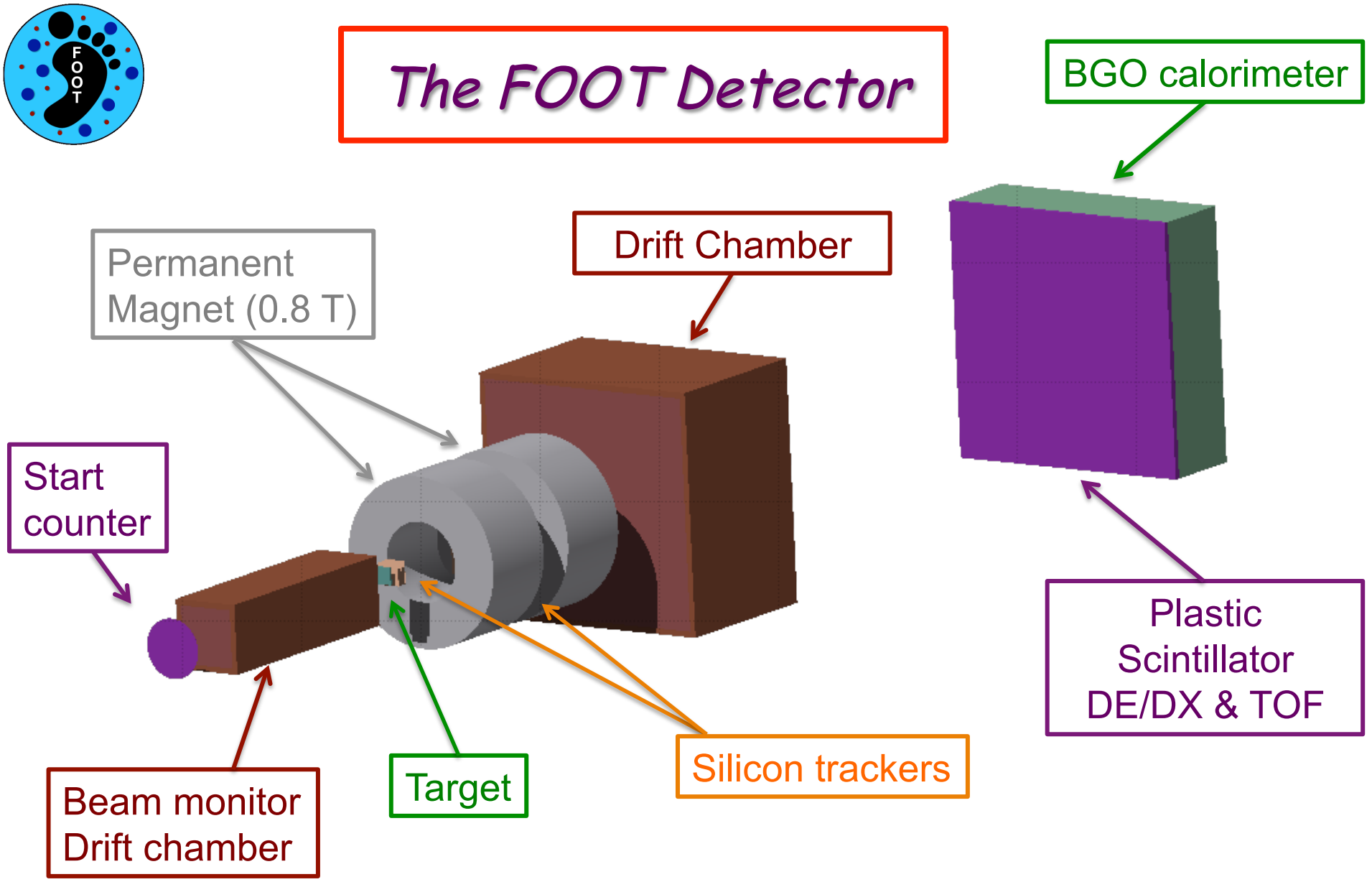
Proposal, TDR, letter of intent ?

- We really need a written document about FOOT. It's likely that the CSN3 will ask it as a milestone. Better be prepared and anticipate this possible requests
- We have to discuss the size: a letter of intent (10 pages) is outdated , a TDR (60 pages) is too much. Maybe a proposal-like document (30-40 pages?) is the right balance -> let's discuss
- A very first draft of this document should be ready for the 19 September CSN3 meeting, so to circulate it informally to the referees
- Final document, maybe to be taken as a milestone for the experiment, ready for december.
- Distributed/shared writing is compulsory!

Sparse ideas, infos..

- FOOT web page should (indico/wiki/wikipedia/FB) would be very useful… volunteers?
- A common data-base for talk/thesis/PhD should be setup
  - An oral talk has been assigned to FOOT at INPC 2016
  - First magistral thesis about FOOT to go out in Rome.
  - Milano already has a student having her PhD about FOOT.. Hopefully more will come.
- Asked for the L3 BGO crystals. A definite answer will come on September. Sample crystals already been sent to be cut in a Tuscany firm
- A 400 MeV/u IBA ion machine will be operational in 2012 in GANIL:

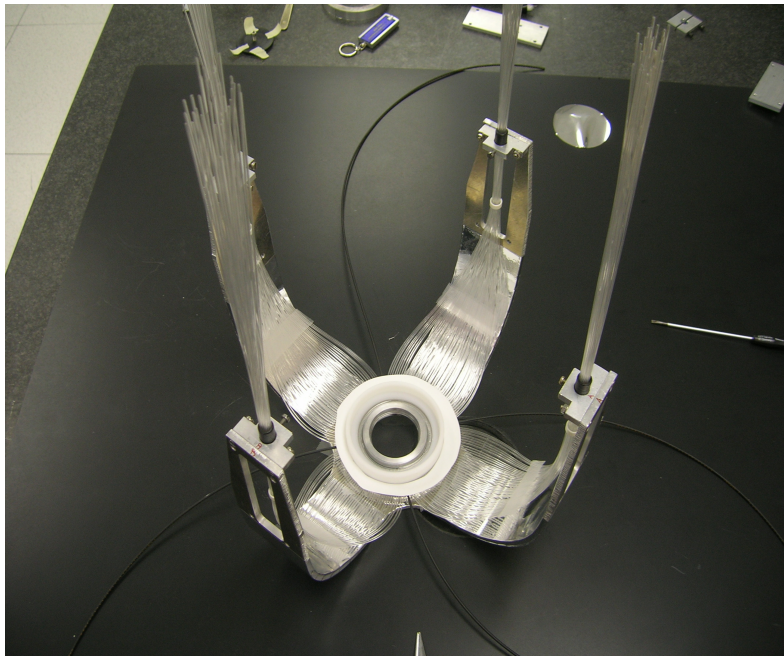
The FOOT Detector



Combines magnetic, TOF and calorimetric measurements

Margherita INFO x DAQ

- Provides trigger? Yes
- Triggered? NO
- Event size; 4 TDC & 4 ADC channels (8x 32 bit usually)
- Max acq Rate; ~ MHz (TDC window/ ADC gate)
- Dead time; 100 ns
- Time-stamp handling? NO
- Trigger during dead time? LOST trigger
- Data BUS? VME
- Number if channels; 4 (x2)



Drift Chambers INFO x DAQ

- Provides trigger? no
- Triggered? yes
- Event size; ~ 200 TDC & 200 ADC channels (400x 32 bit usually)
- Max acq Rate; ~ MHz (TDC window/ ADC gate)
- Dead time; 1 μs
- Time-stamp handling? NO
- Trigger during dead time? Trasparent
- Data BUS? VME
- Number of channels; 200 (x2)