Towards TB June 2025
(some) mechanical issues

Grzegorz Grzelak, Piotr Zbińkowski, Filip Żarnecki

Faculty of Physics
University of Warsaw

ECAL-P meeting, 22-Jan-2025

Some question for discussion

- Veta is preparing an order of 3-4 tungsten plates (Beijing/ATAS)
  ISS requires “custodial agreement” for shipping them
  from Bucharest to Warsaw (what about Kraków and DESY ?)
  How to proceed in most convenient way (less bureaucracy...) ?
- What will be the delivery time from Beijing ?
  $\rightarrow$ time in Warsaw for CMM metrology and mechanical tests
- Should we store the tungsten plates at DESY after TB for next TB campaign ?
  (it was the case for the old FCAL plates). If yes, then where ?
- Having altogether 9 or 10 new tungsten plates for ECAL-P geometry
  do we still need the old FCAL (LumiCAL) tungsten for TB in June’25 ?
  (support, different chemical composition - only 92% of pure W)
  What really important for the project can we learn ? (5 GeV e-beam)
  ANSWER: Yes, we need them... $\rightarrow$ next pages

- more info, including progress report, during ECAL-P meeting in Hamburg
  (main body, combs 1.2mm, T-frames, ..., dummy glass sensors)

Average cascade profile - fit results

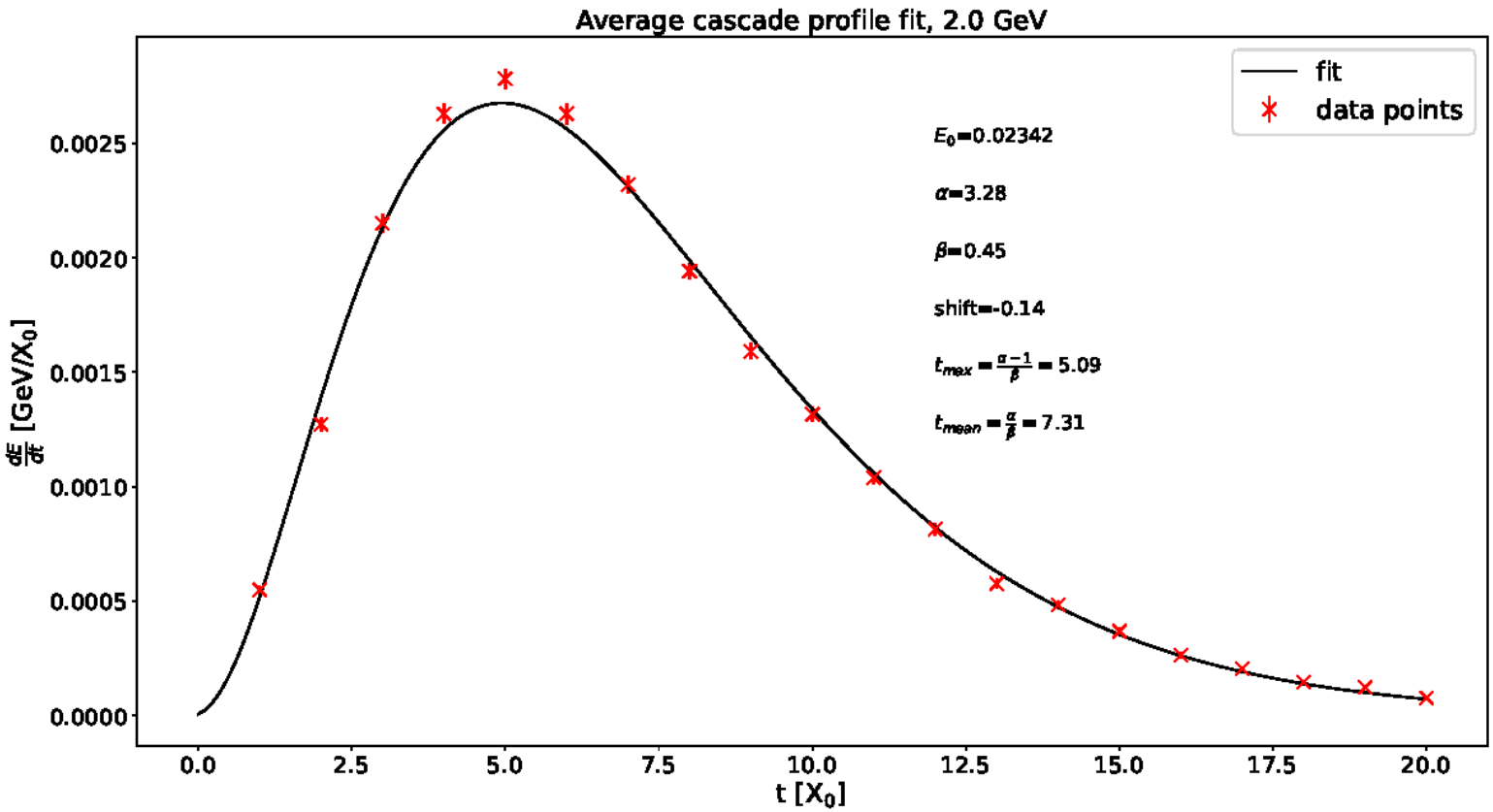

Figure: Gamma distribution fit to average cascade profile, 2GeV

Average cascade profile - fit results

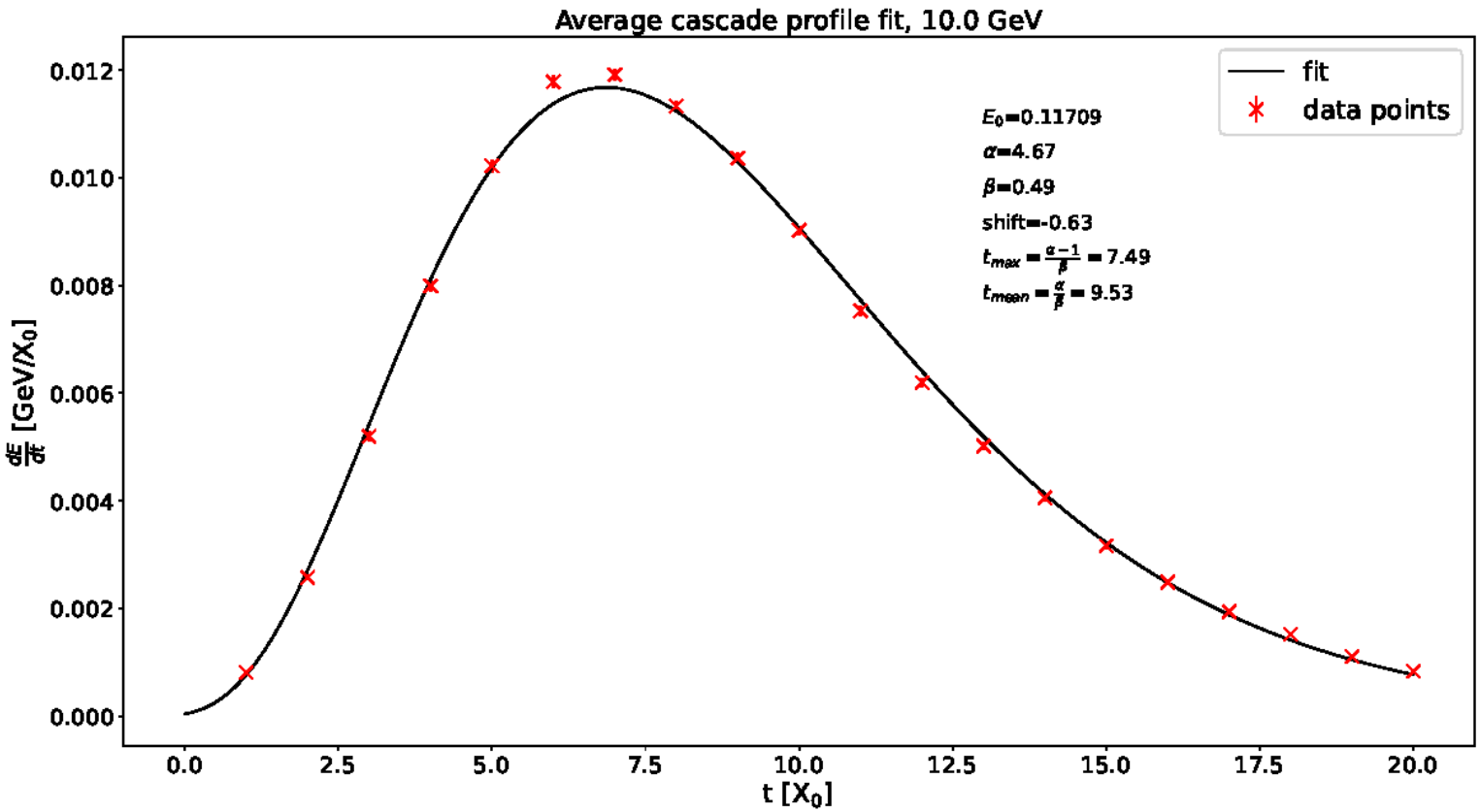

Figure: Gamma distribution fit to average cascade profile, 10GeV

Scaffolding: Support for PCBs Rack for TB-2025

- EuropacPRO 19inch Subrack Kit:
  Depth: 235 mm
  Rack Height: 3 U = 3*44.45mm = 133.2 mm
  Rack Width: 84 HP = 84*5.08 mm = 426.72 mm (less then ECAL-P width)
- to be attached to the “scaffolding” standing on ECAL-P base plate (transportation plate)
- **what about load ? how many kg ? $\rightarrow$ feedback needed**