MIP studies

24 October 2018

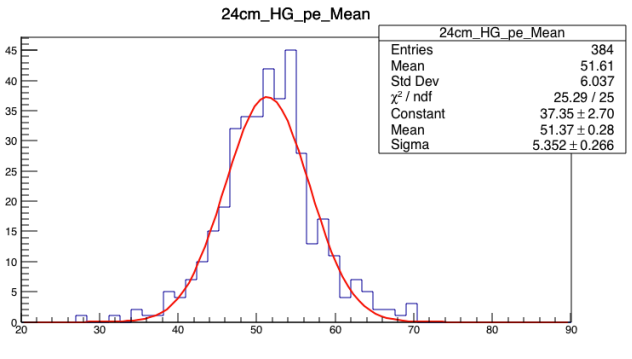
Steps of the analysis

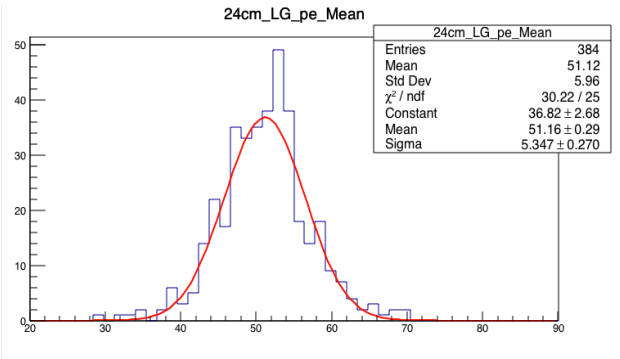
MIP data: 2 GeV muon beam with magnet OFF (1September_20)

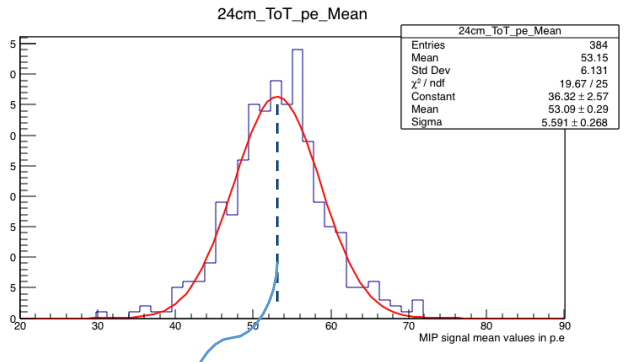
- Consider the ASICs which see the beam
- For all channels reading the same fiber length:
  - Fit HG/LG/ToT/Charge distributions with a gaussian function. Record mean and sigma
  - Plot the histogram of mean values for each fiber/MPPC type
  - Plot mean channels vs mean values for each FEB

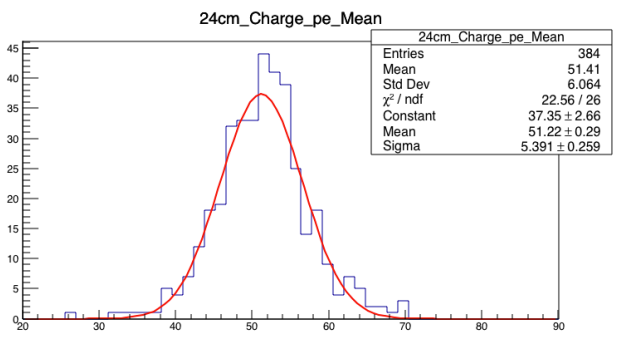
24 cm fibers

Data: 1September_20

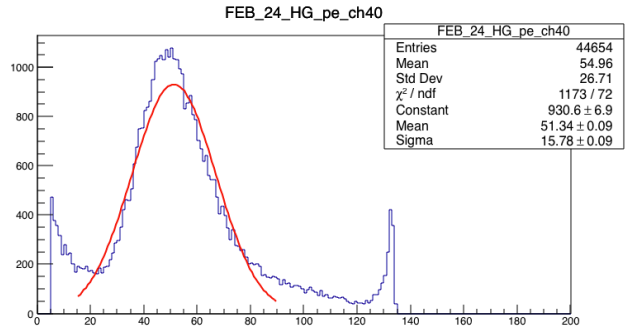


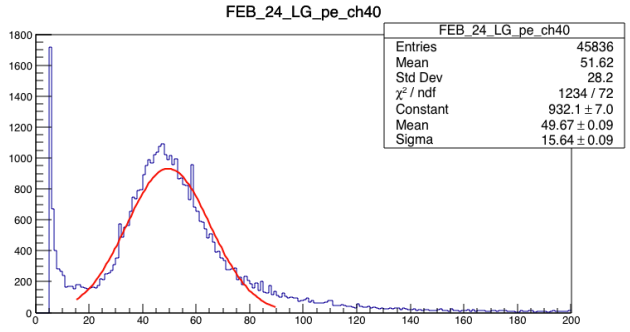


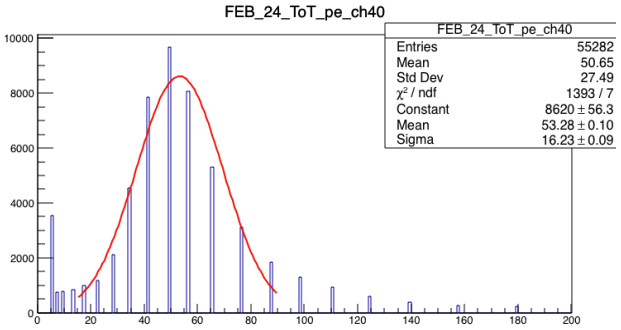


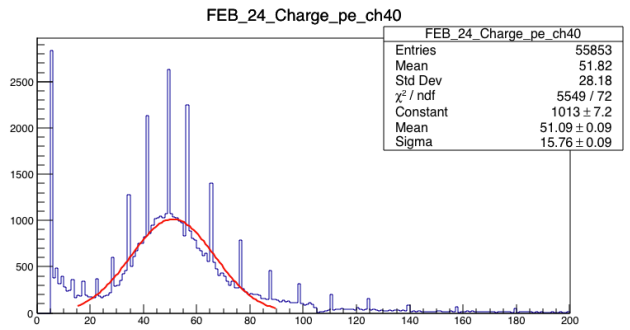


Example FEB24, ch40

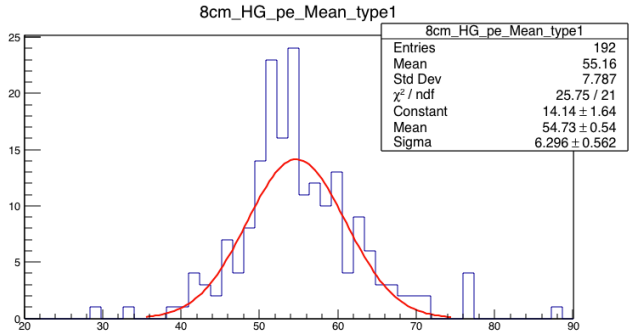


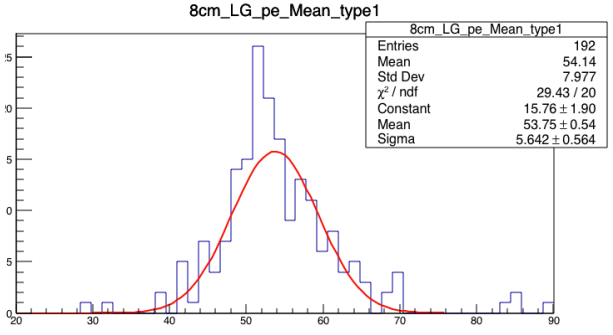


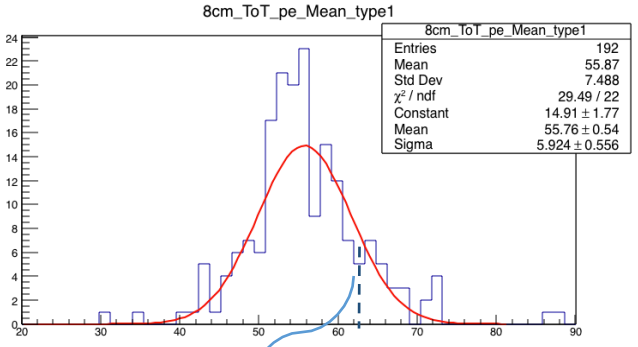


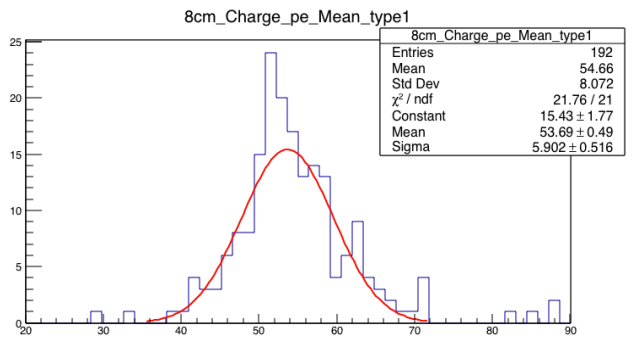


8cm fibers, Type1

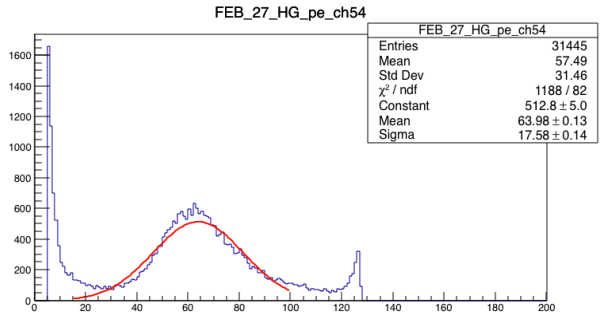


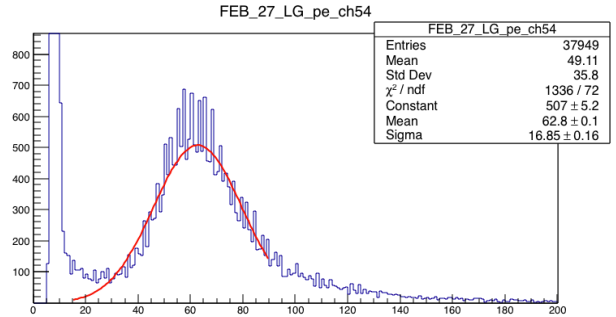


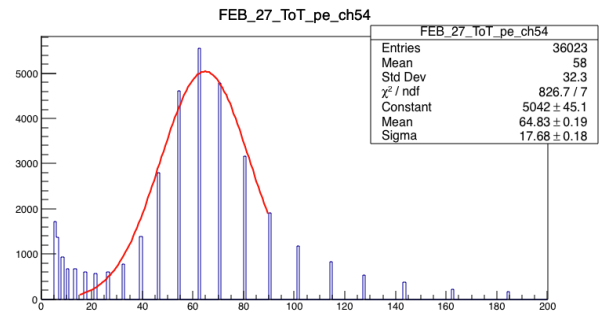


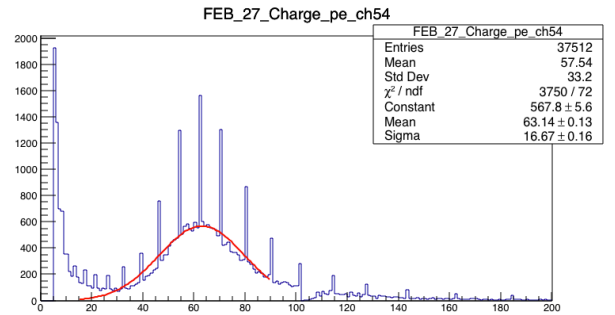


Example FEB27, ch54

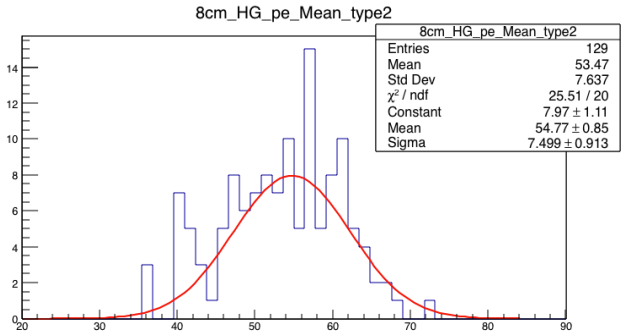


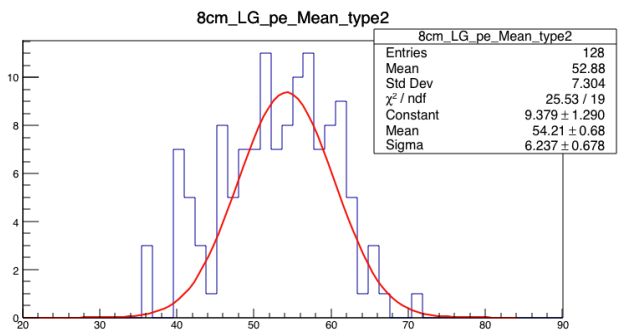


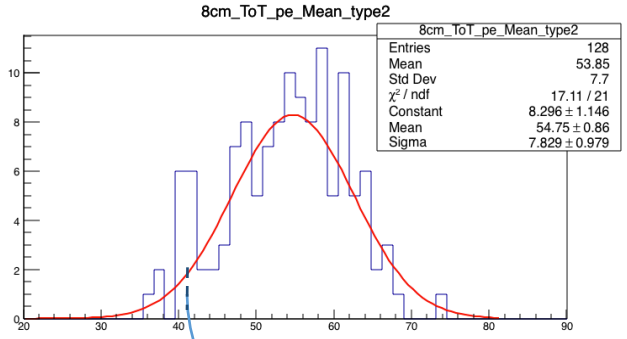


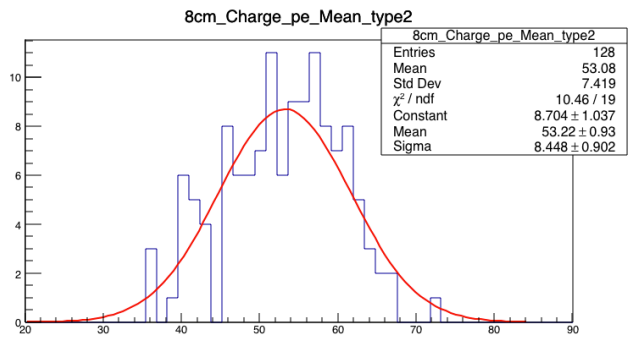


8cm fibers, Type2

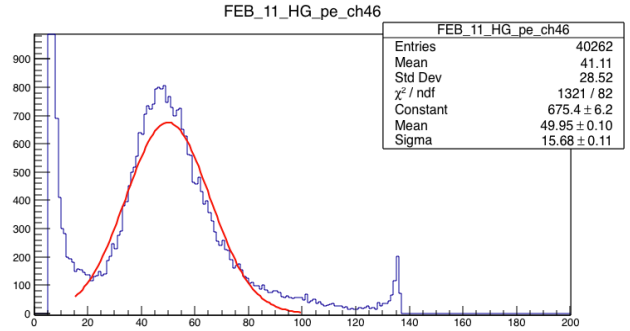


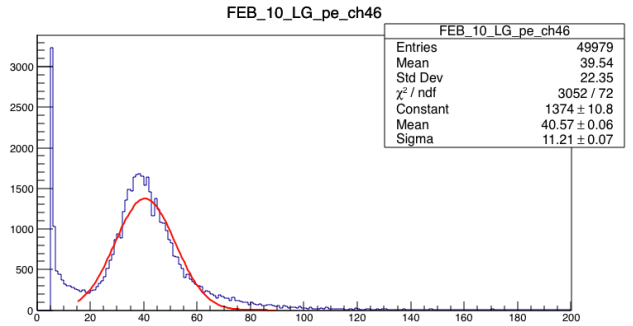


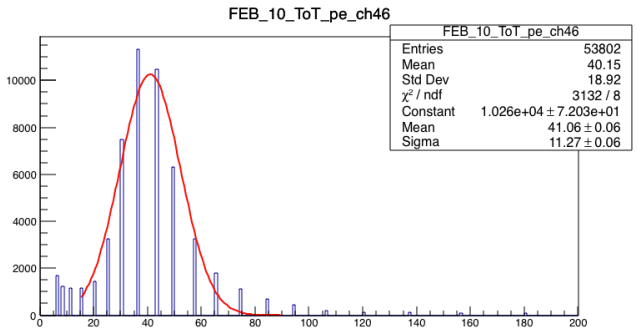


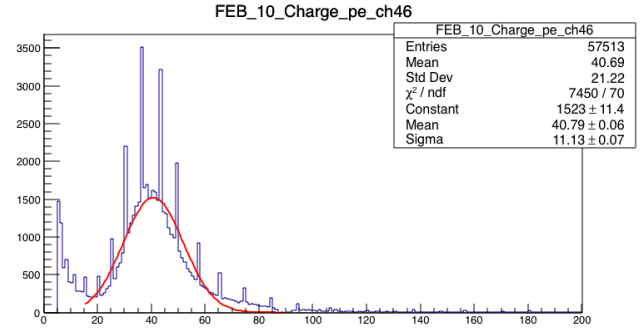


Example FEB27, ch54

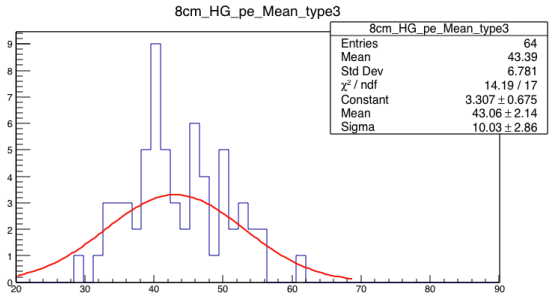


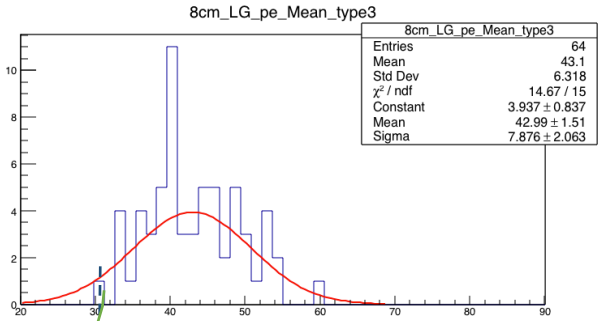


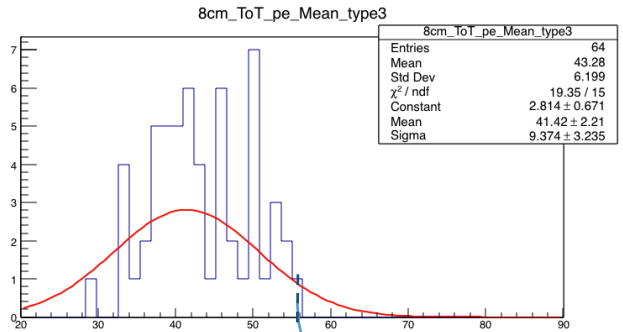


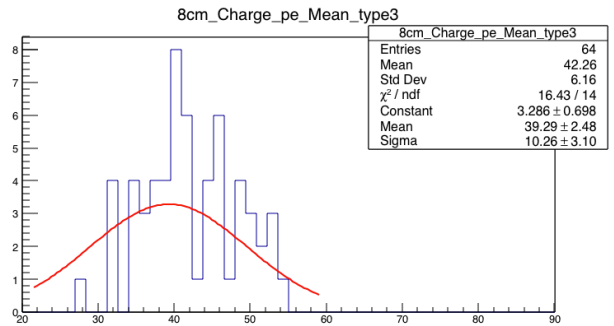


8cm fibers, Type3

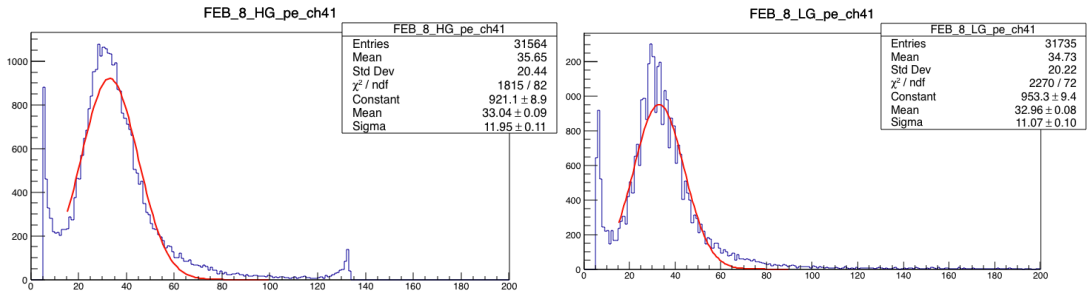


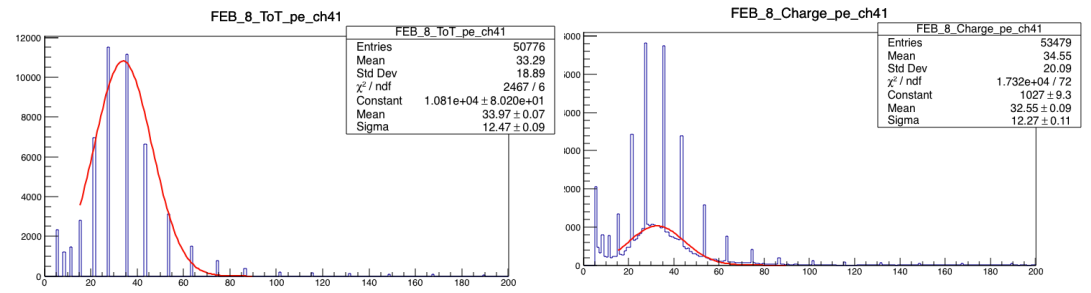




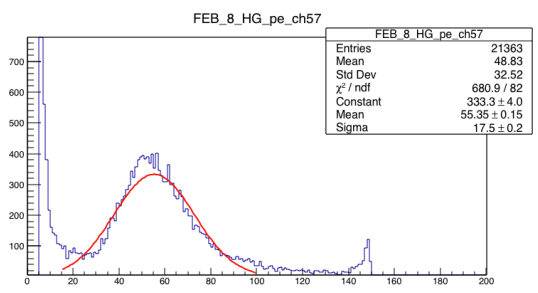


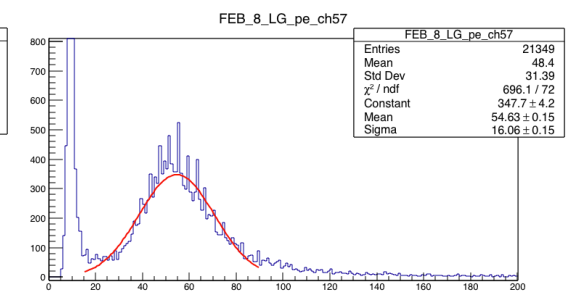
Example FEB8, ch41

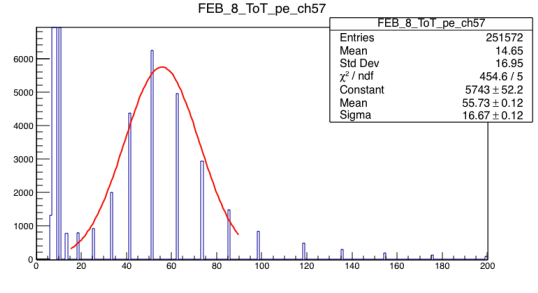


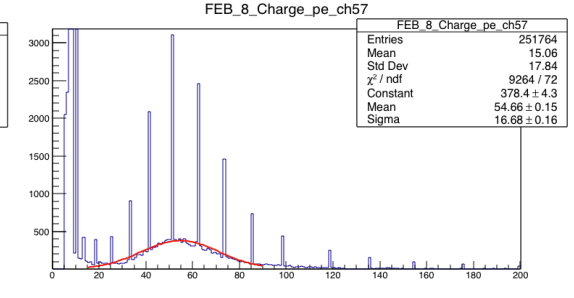


Example FEB8, ch57



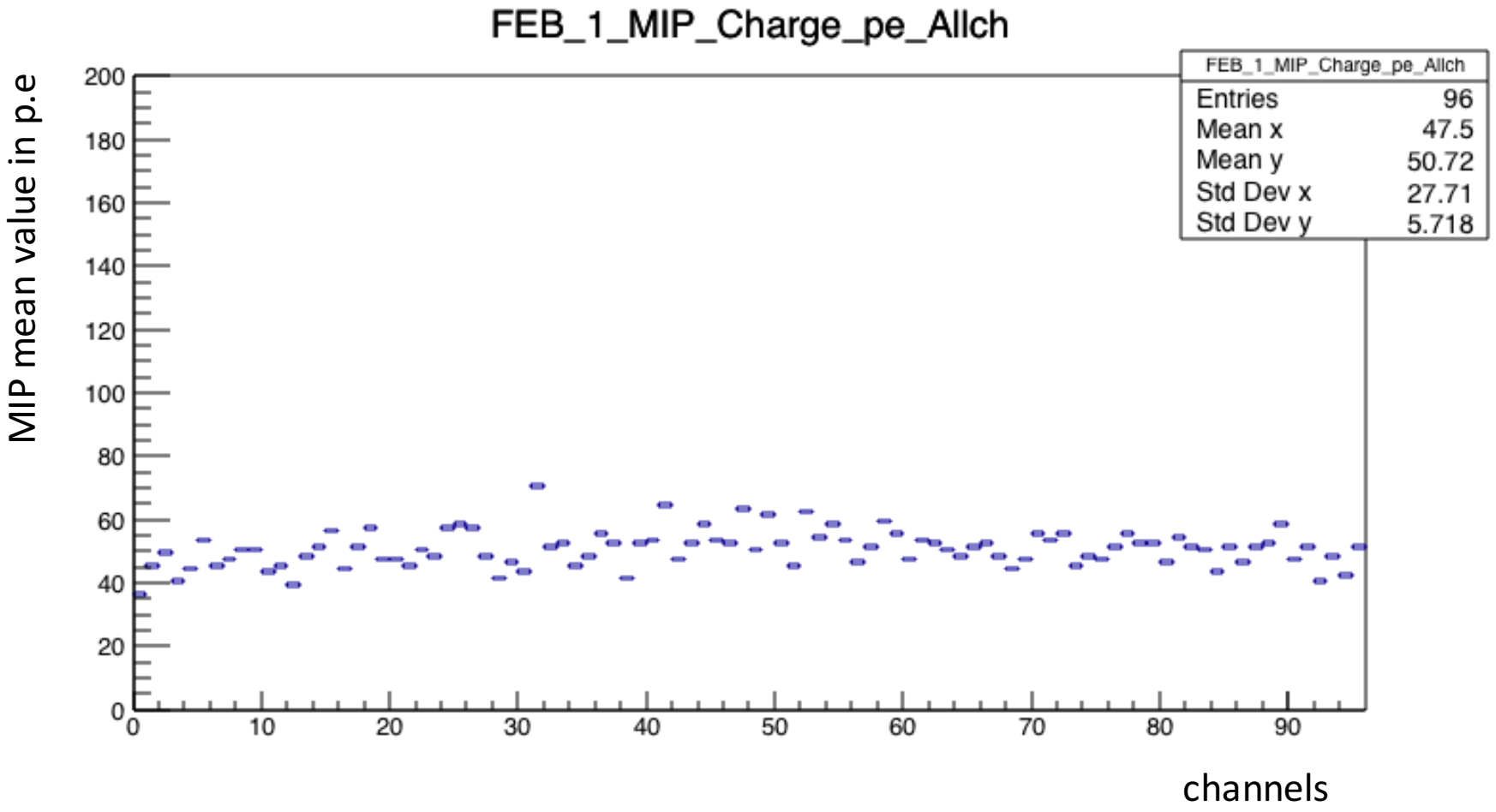






Distribution of MIP mean values for channels of one FEB

Example for FEB1



Summary plot for all FEBs