D. Boccanfuso, F. Cirotto, A. D'Avanzo, C. Di Fraia
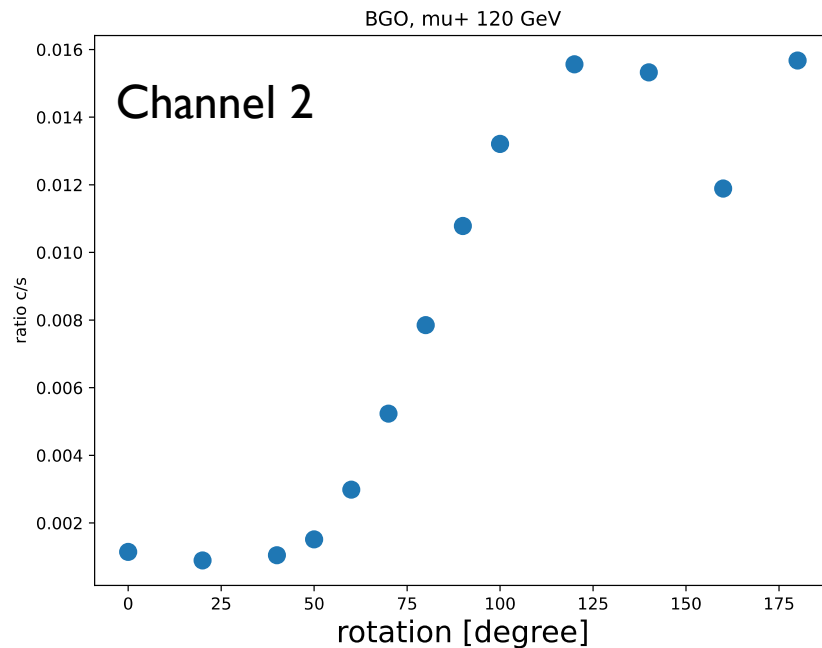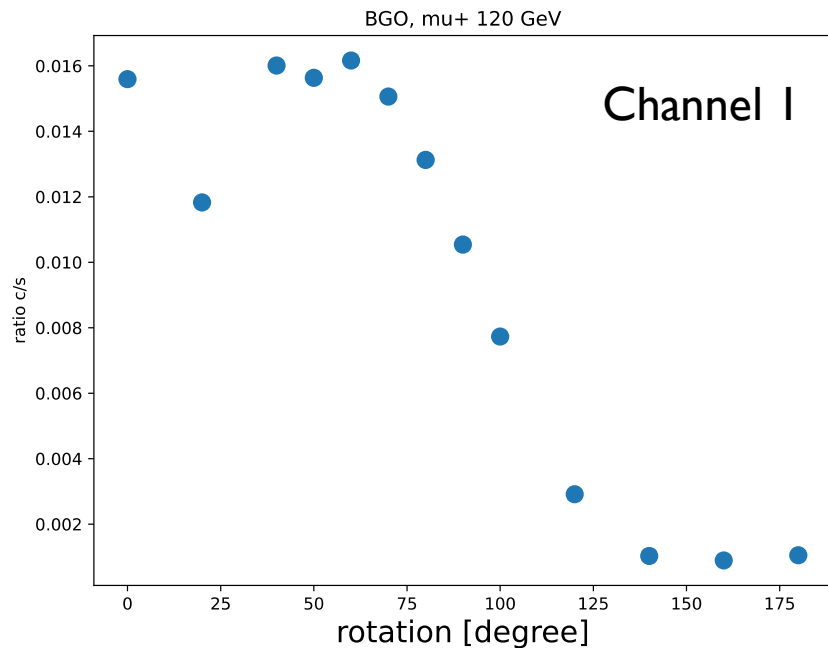
GEANT4 SIMULATION REPORT

NEWS

➢ Added position and direction of photons reaching CH1 and CH2

➢ Disabled borders between crystal and filter as Daniele's branch
  ➢ Simulation faster than before
  ➢ Output files don't get totally corrupted, but some vectorial branches get corrupted

➢ Produced runs with electrons

air (r = 1)

plastic MiB

plastic Na

BGO

LYSO

SiPM 2   SiPM 1

preshower steelbox
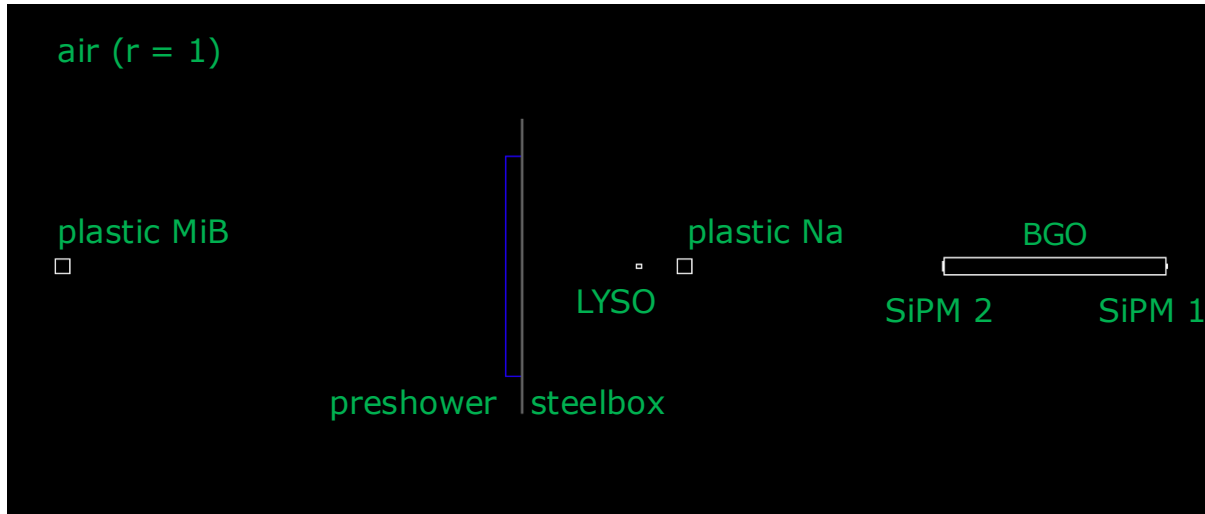
link to relative distances

➢ mu+ at 120 GeV, σ_{beam} = 0.25 cm, 100 events

➢ mu+ at 120 GeV, σ_{beam} = 0.25 cm, 100 events

➢ mu+ at 120 GeV, σ_{beam} = 0.25 cm, 1k events

AVERAGE CH2/CH1 IN SIPM: FILTER
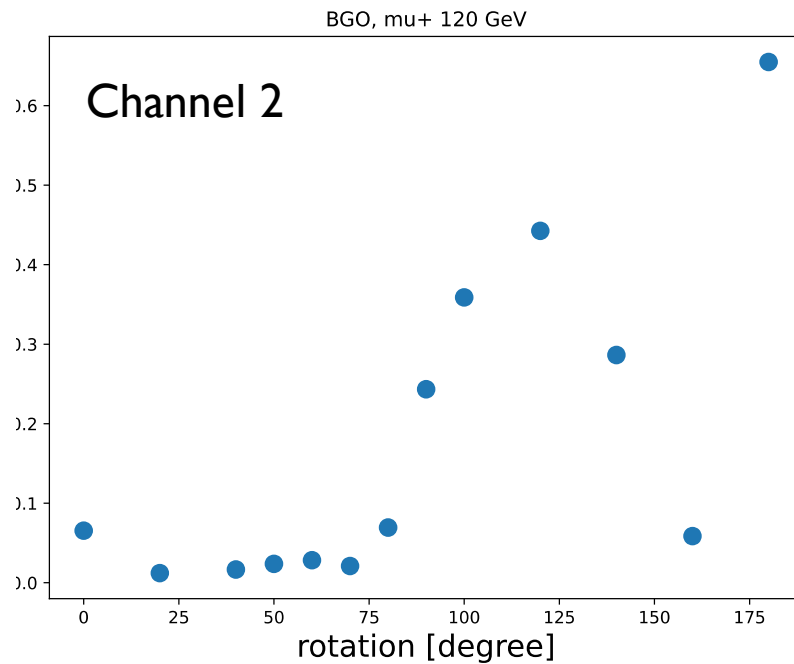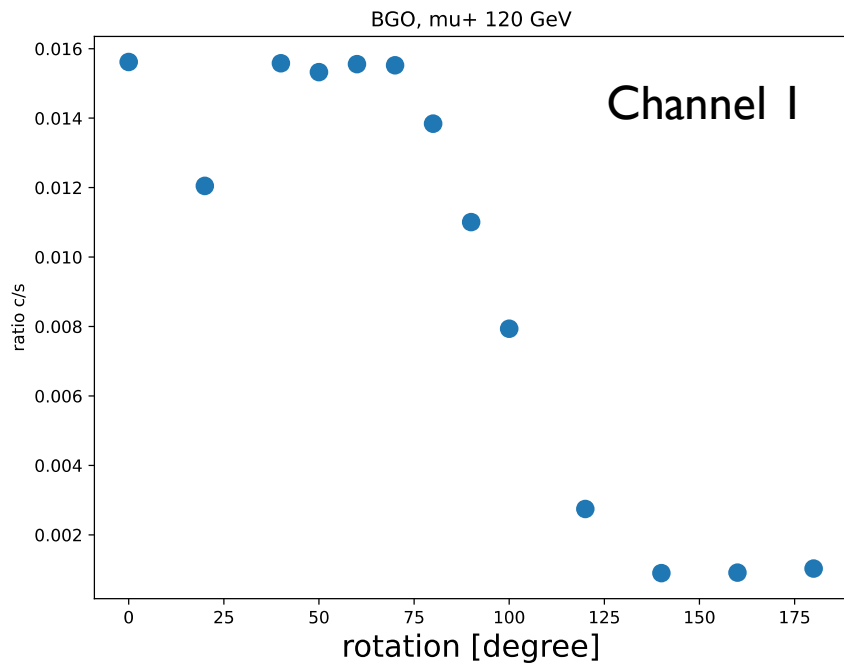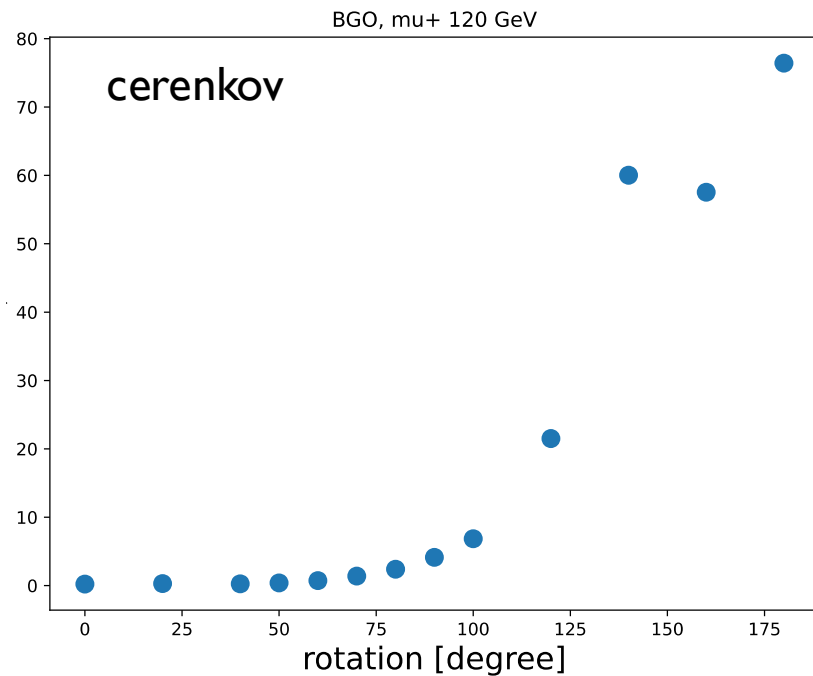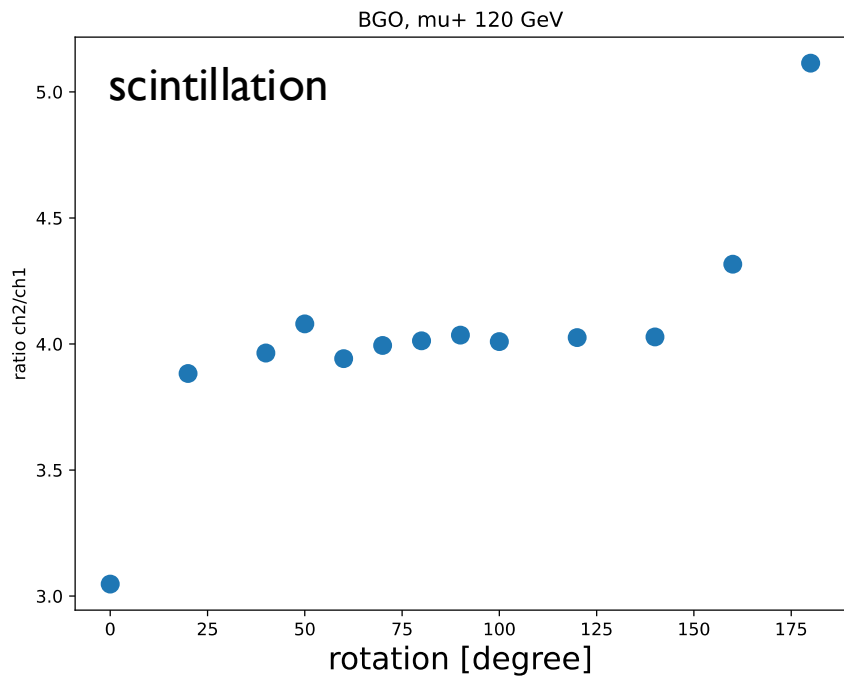
➢ mu+ at 120 GeV, σ_{beam} = 0.25 cm, 100 events

AVERAGE C/S IN SIPM: FILTER
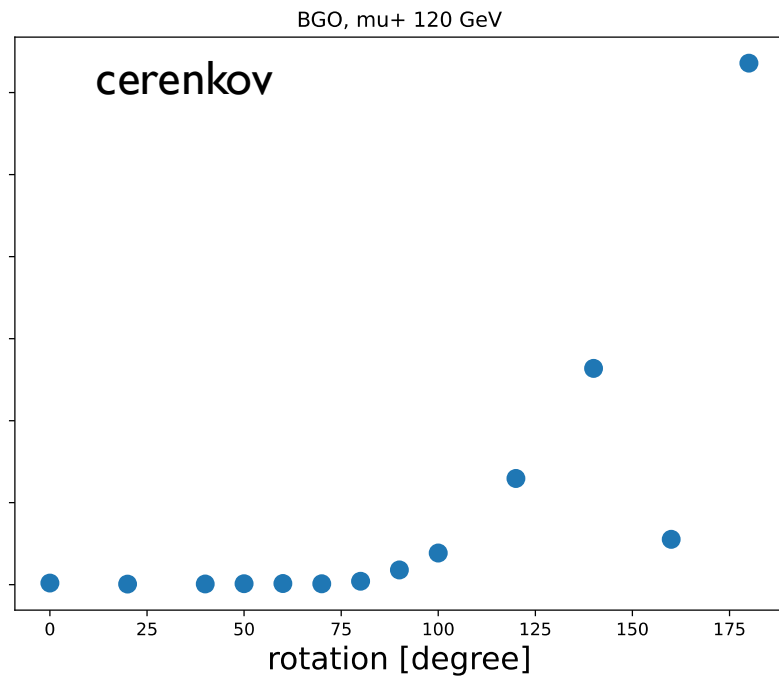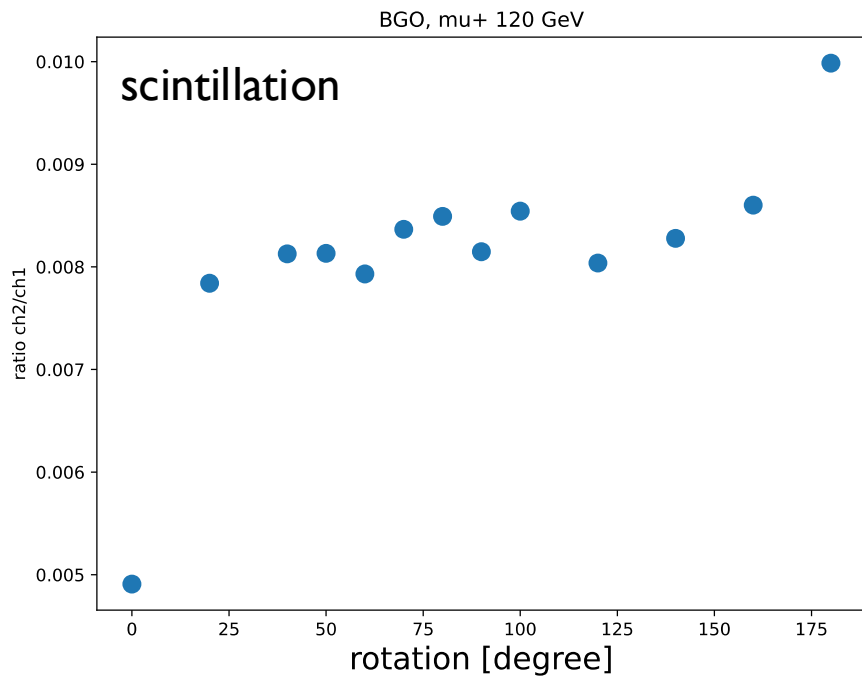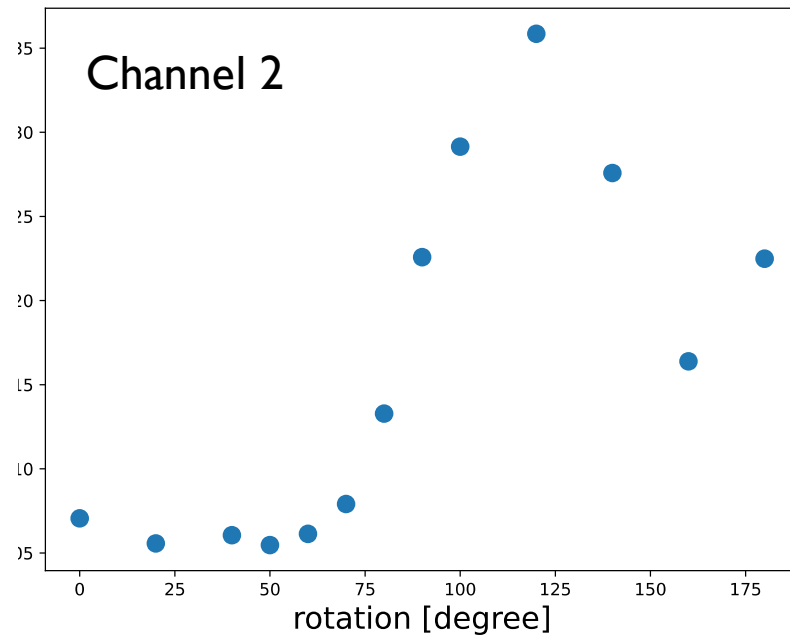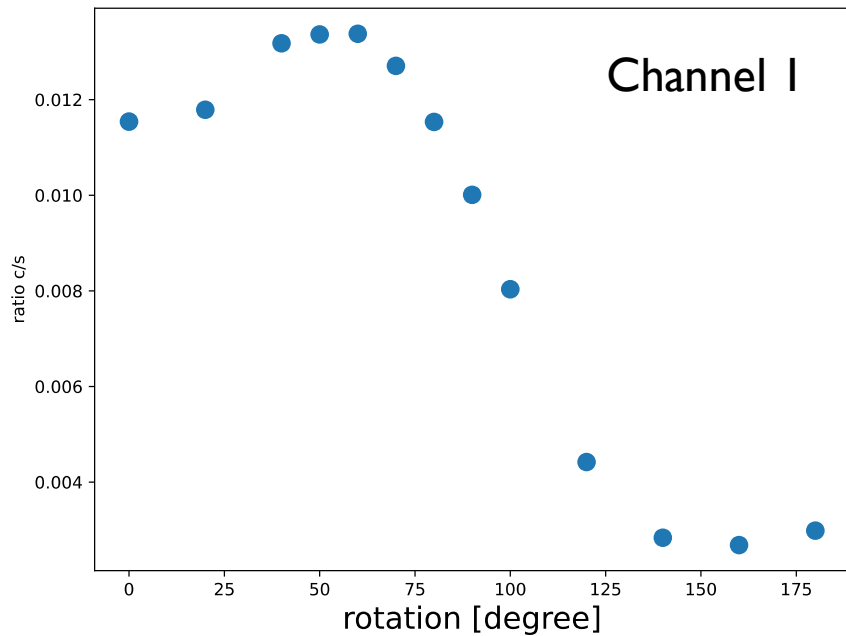
➤ e+ at 10 GeV, σ_{beam} = 0.25 cm, 100 events

➤ e+ at 10 GeV, σ_{beam} = 0.25 cm, 1k events