

Discussion for test beam operations and results

Considerations

- @ 10 kV - std gas mixture - source off
 - EPDT: $I=6-7$ μA (at end of 2020) to $I=30$ μA (June 2021 after operations with ECO2)
 - GT-Bottom: (See Luca plot) $I=12$ μA (at end 2020) to $I=50$ μA (April 2021 after operations with ECO2) then $I=35$ μA (June 2021 after operations with std gas mixture)
 - GT-Top: (See Luca plot) $I=25$ μA (at end 2020) to $I=60$ μA (April 2021 after operations with ECO2) then $I=35$ μA (June 2021 after operations with std gas mixture)
- GT chambers show also High rates after ECO2 operations: about 9 hz/cm² with std gas mix, source off. By comparison other CMS chambers not used with ecogas shows 0.8 hz/cm²

Current limits

- With std gas mixture and source ON - ABD 6.9
 - $I=250\text{ }\mu\text{A}$ @ 10 kV (both EPDT and GT chambers)
- In yesterday GIF++ meeting we decided to not go below ABS=6.9 (DO WE AGREE?)
- Is 250 μA reasonable as current limit ? Too much ?