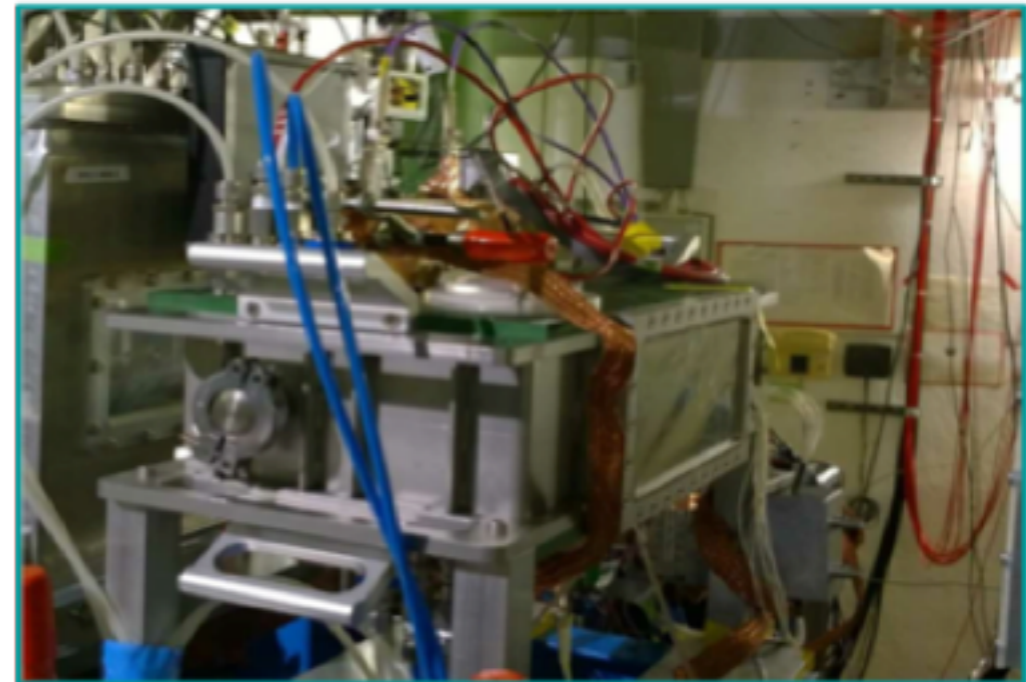
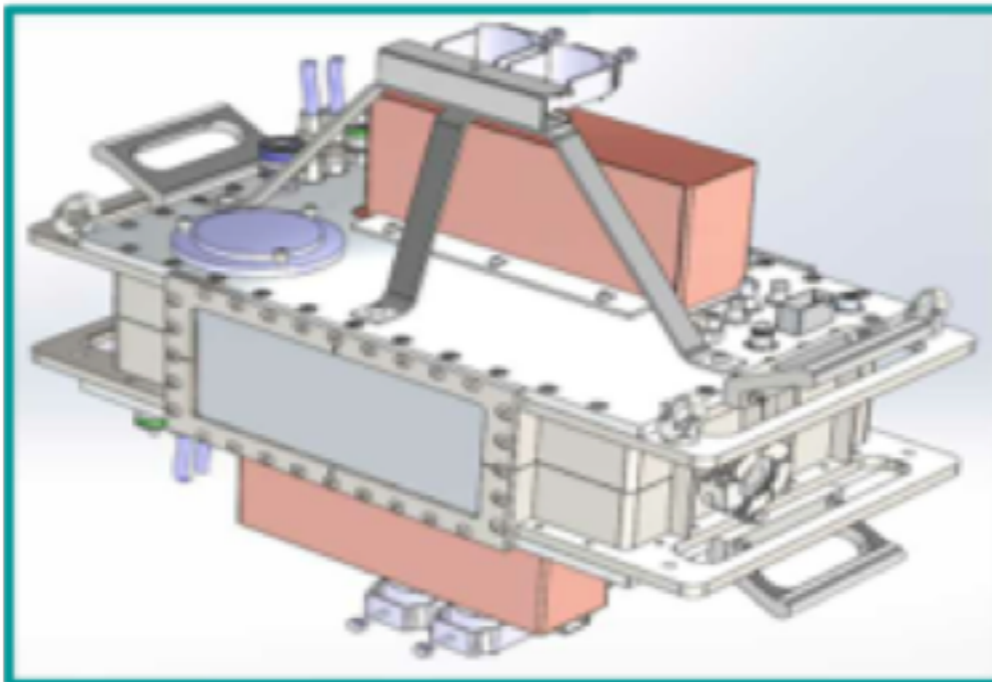


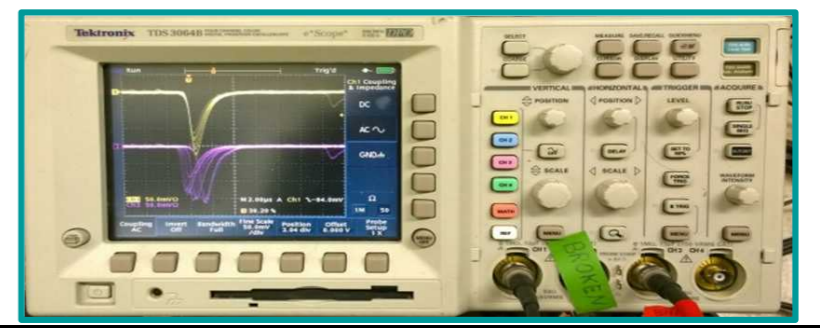
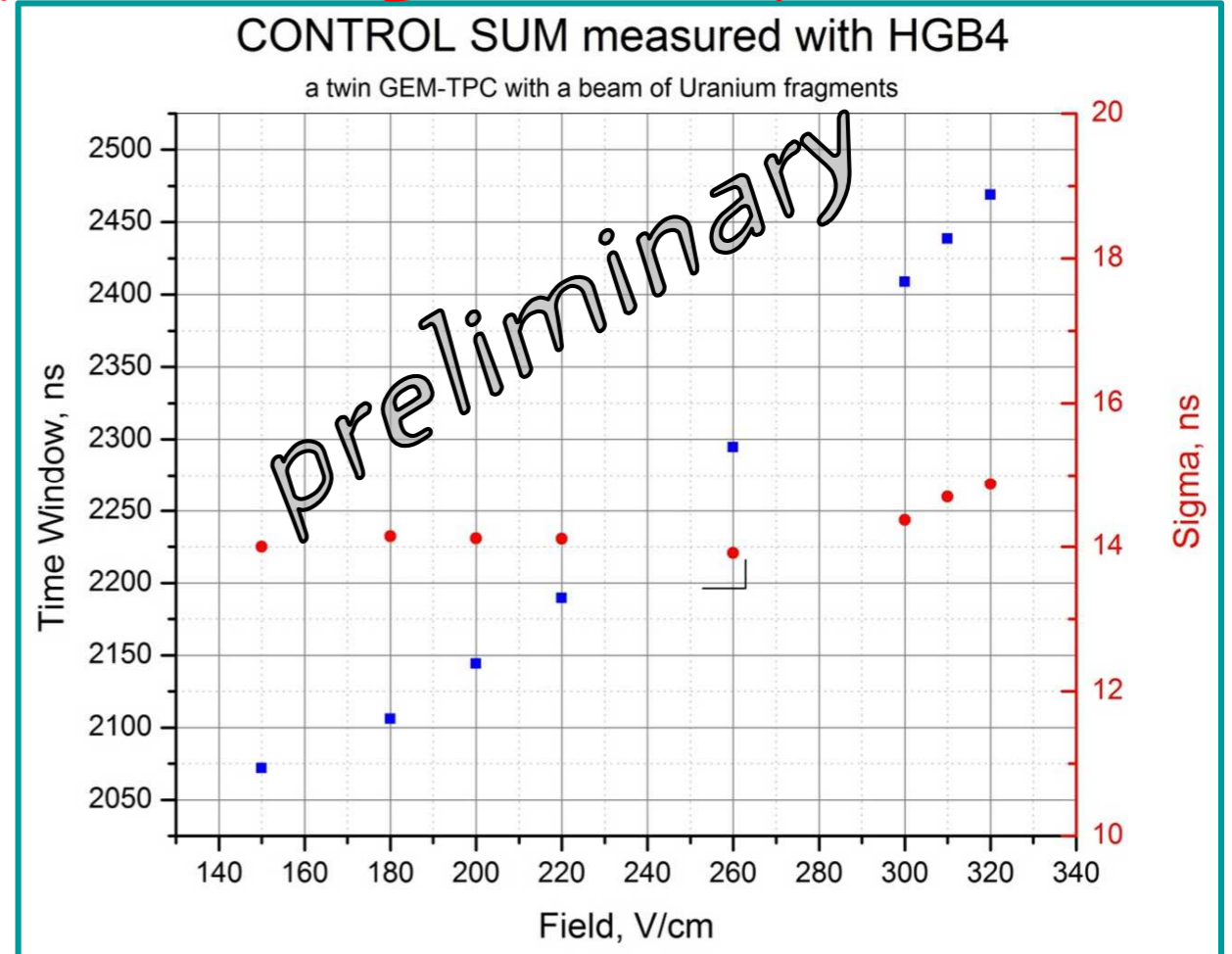
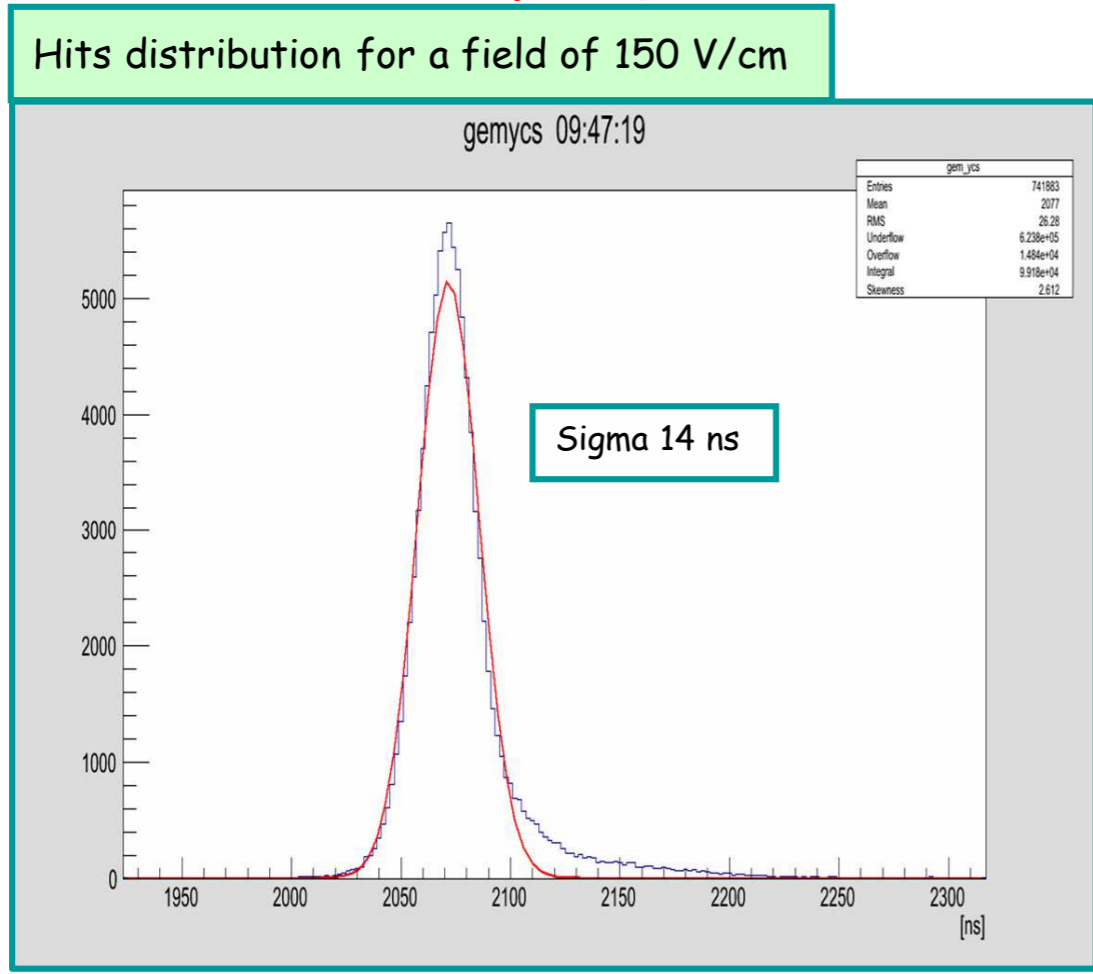
GEM-TPC

Requirements for beam tracking at Super-FRS:

- Active area: 380 x 80 mm
- Rate capability: Up to 10^7 per spill \Leftrightarrow 10 MHz rate
- Position resolution < 1 mm
- Detector exists and is available, 2nd prototype in production



HGB4 CONTROL SUM



Approved test - 2 days

- ❑ Test beam production and separation at the BigRIPS with four settings: e.g. ^{194}Po , $^{184,186}\text{Pb}$ and ^{182}Pt
- ❑ ^{238}U primary beam at 1-2 pnA (limited by F3 count rate), F3 rate \cong 20 kHz
- ❑ This yields \cong 80 000 events at F7 per hour
- ❑ GEM-TPC in the BigRIPS beam line

