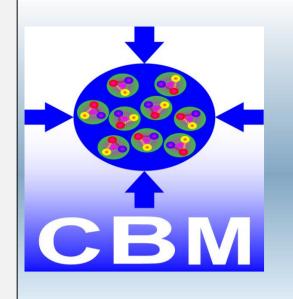
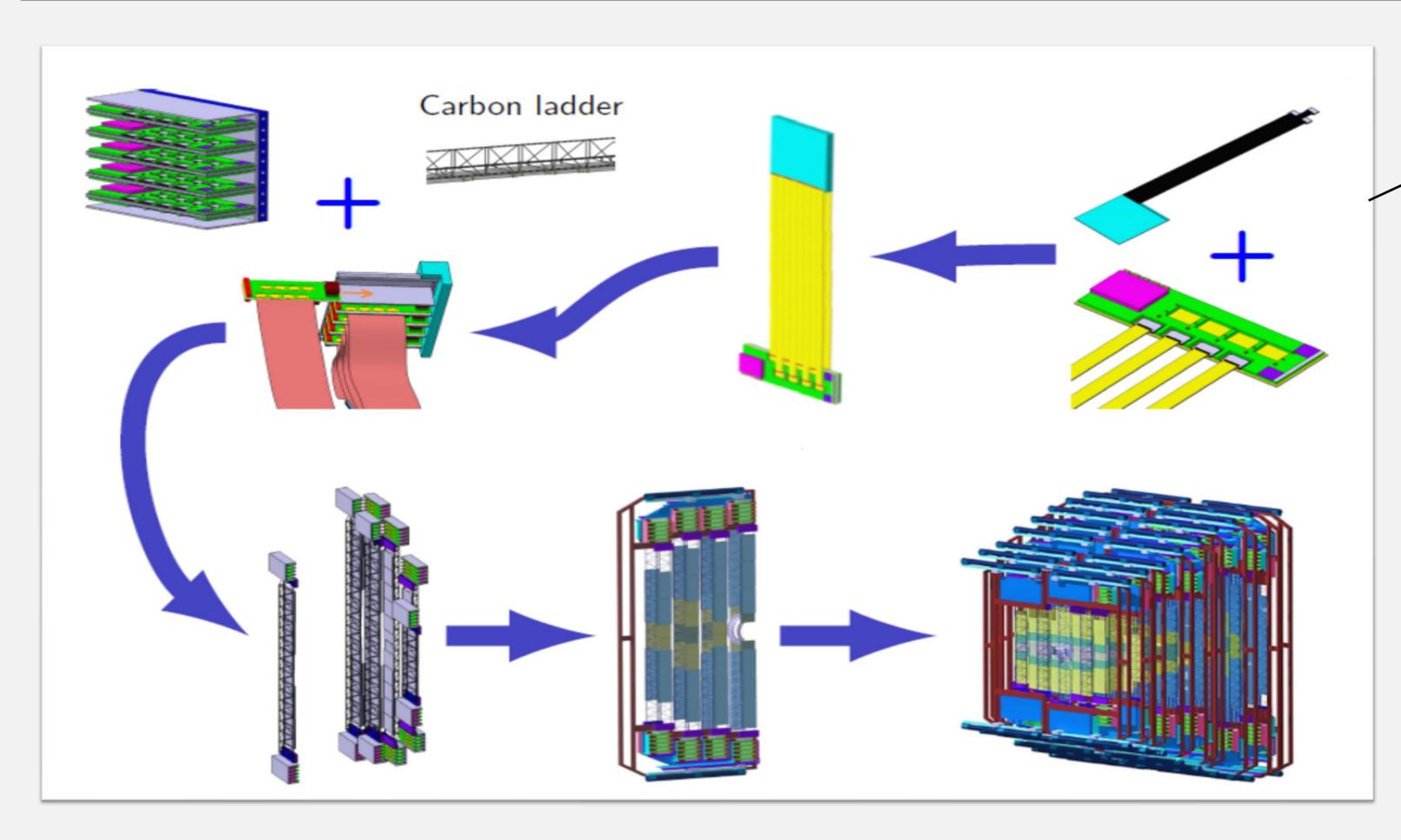
## STS-XYTERv2 AND PROTOTYPE FEB-B TESTS FOR THE CBM SILICON TRACKING SYSTEM



Merve Dogan<sup>1,2</sup> for the CBM collaboration

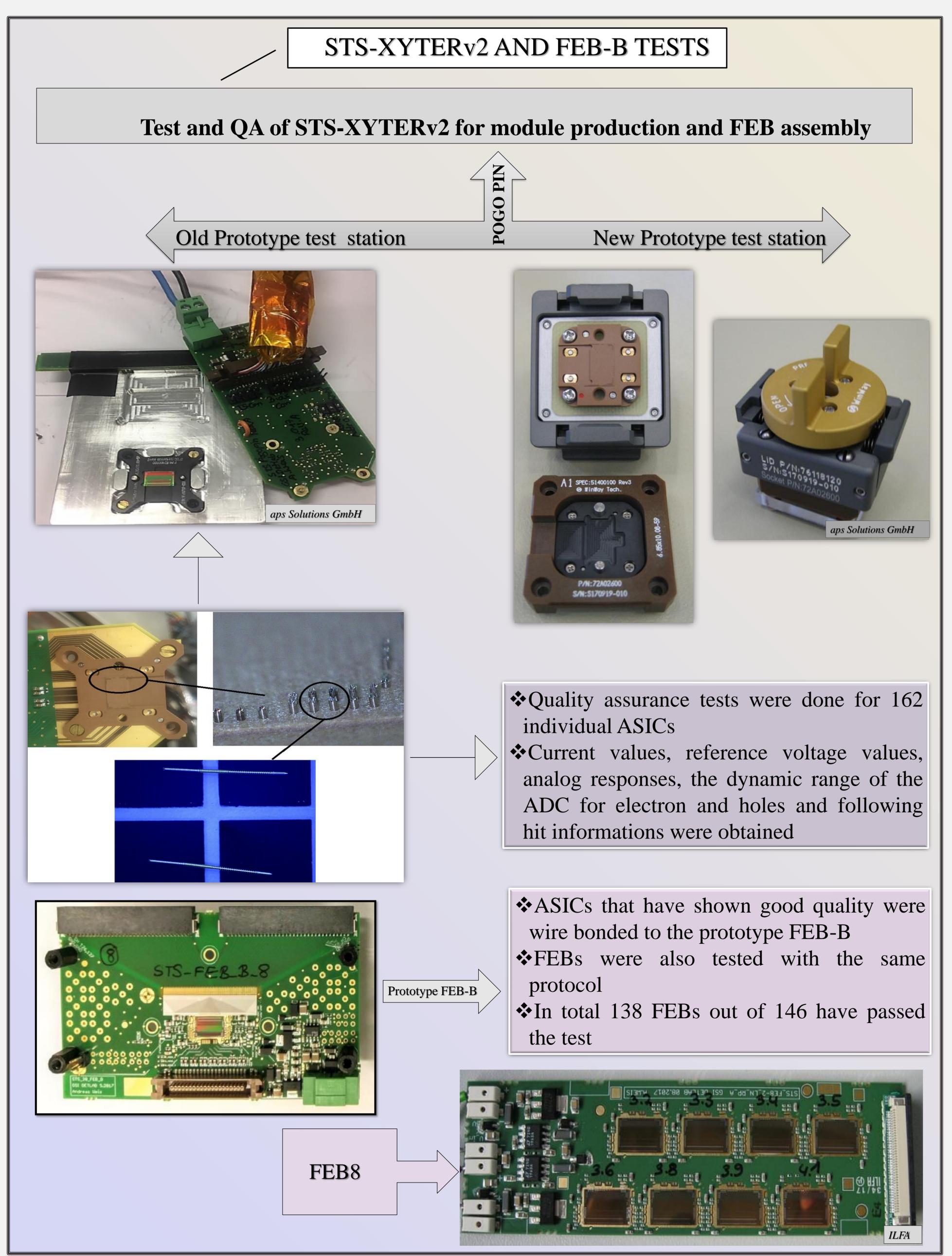
<sup>1</sup>Istanbul University, Istanbul <sup>2</sup>GSI, Darmstadt

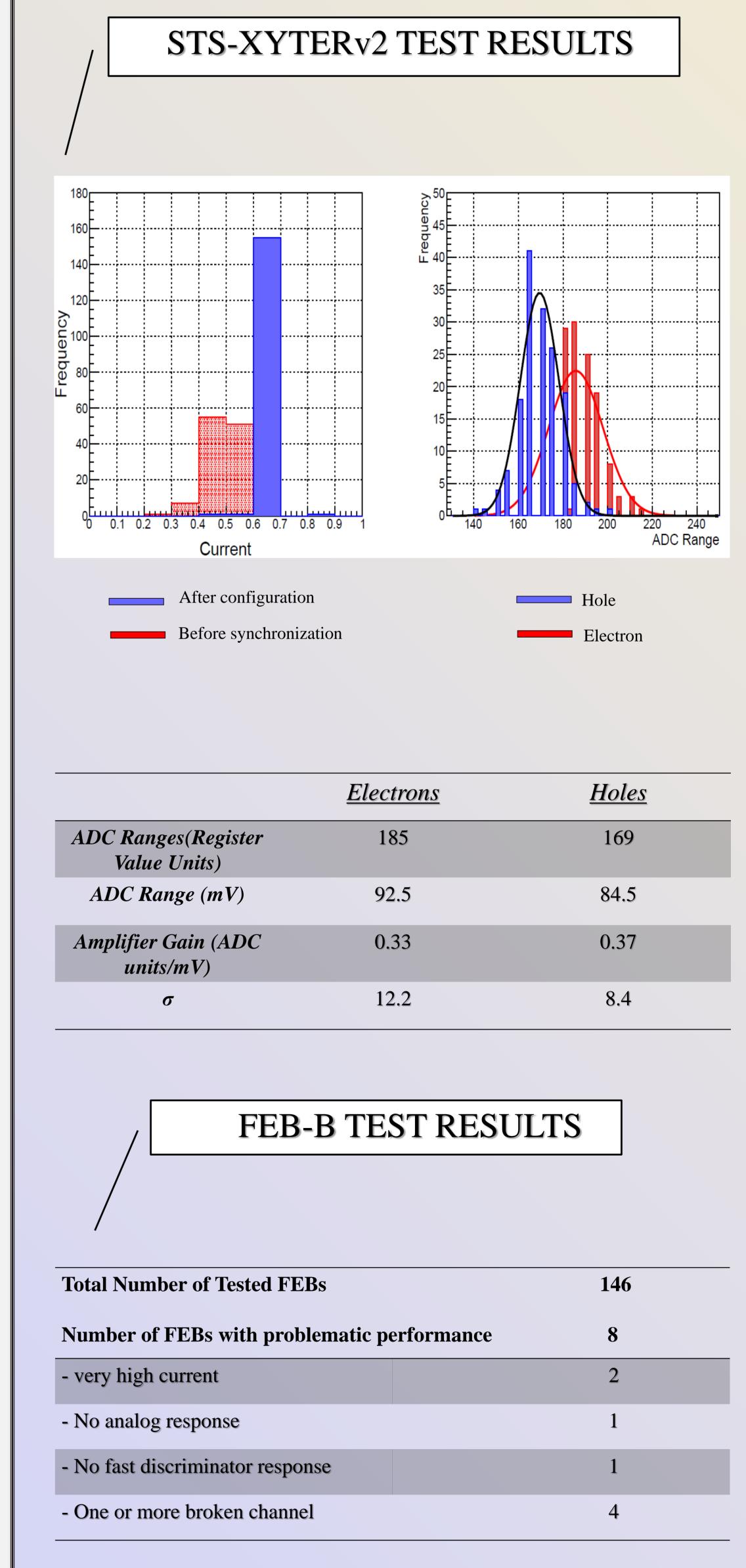




## MODULES IN THE SILICON TRACKING SYSTEM OF THE CBM EXPERIMENT AT FAIR

- **48** tracking station between the angle  $2.5^{\circ} \le \Theta \le 25^{\circ}$
- Self-triggering electronics
- double-sided silicon microstrip sensors
- ♦ hit spatial resolution ≈ 25  $\mu$ m
- $\Delta p/p \approx 1.8\%$
- ❖Inside 1 Tm dipole magnet
- ♦ hit reconstruction eciency > 98%





- The yield is 91%, a rather typical value in ASIC design and production
- ❖At least an extra of 9% needs to be produced to accommodate the yield
- Looking forward to mSTS in mCBM:
- Approximatelly 250 ASICs need to be tested at the different stages of the module assembly.