

### **MBHA001 – Update on simulations**

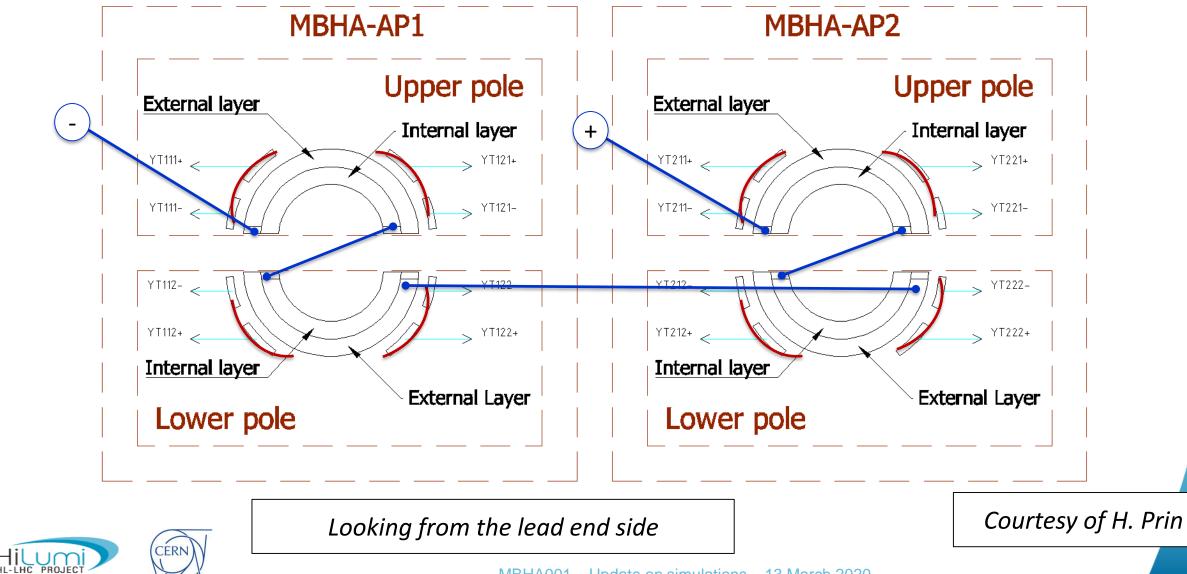
E. Ravaioli (CERN) STEAM

Thanks to J. Ludwin, M. Bednarek, F. Mangiarotti, H. Prin, A. Verweij and other colleagues involved (CERN)

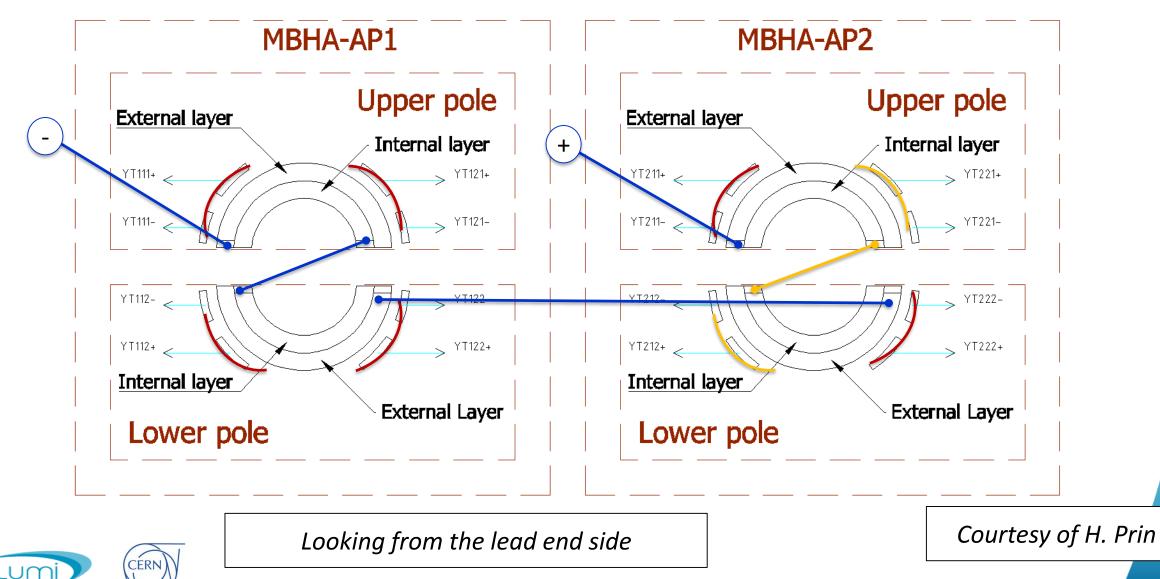


13 March 2020

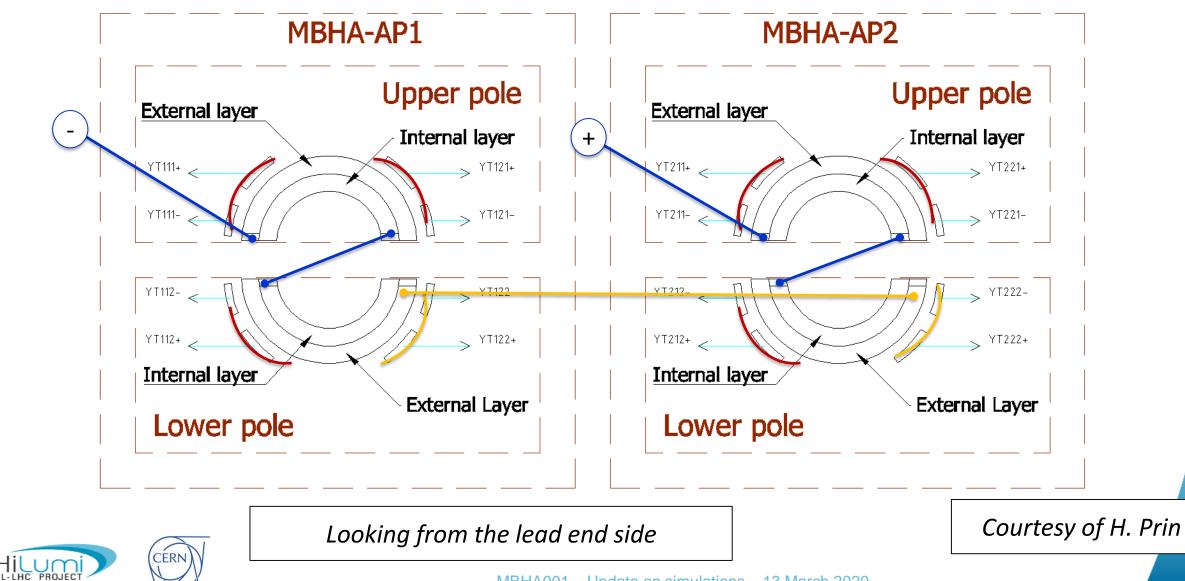
### **MBHA-001 – Splices, Busbars, QH connections**



# Proposed test: Delay QH acting on conductor closest to D2 splice



# Proposed test: Delay QH acting on conductor closest to D1-D2 splice



## A few observations

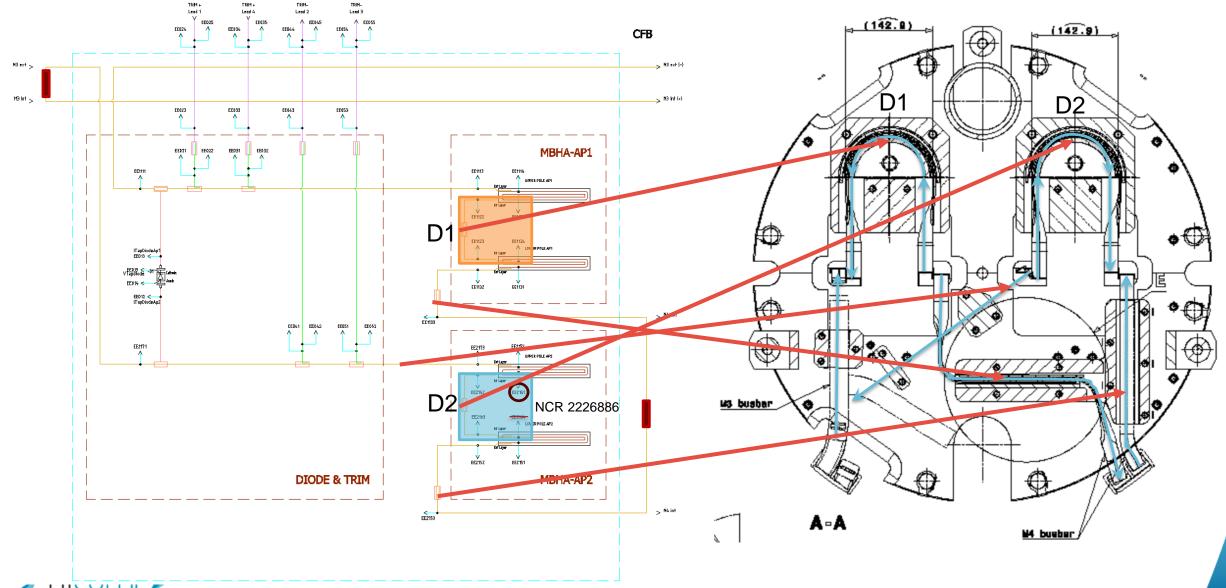
- The Cold Diode busbar signals are completely silent during the transients: no inductive coupling, no noise
- The splice signals are silent during the transients, with isolated spikes (might be due to crosstalk)
  - In a few past meetings, we said there were spikes at the same time as the coil spikes; this is not true for the channels measuring individual splice sections (which should be more precise)



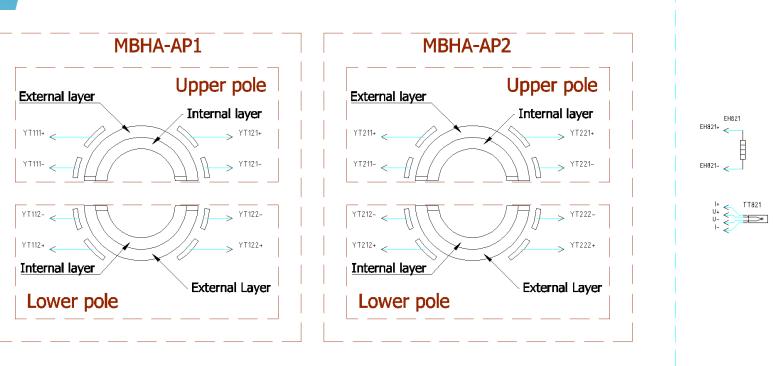


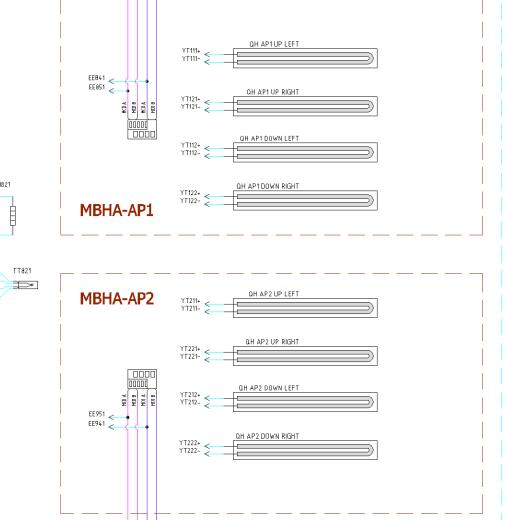


#### MBHAR cold test configuration



HL-LHC PROJECT







## Signals on the voltage taps

