



Magnet status

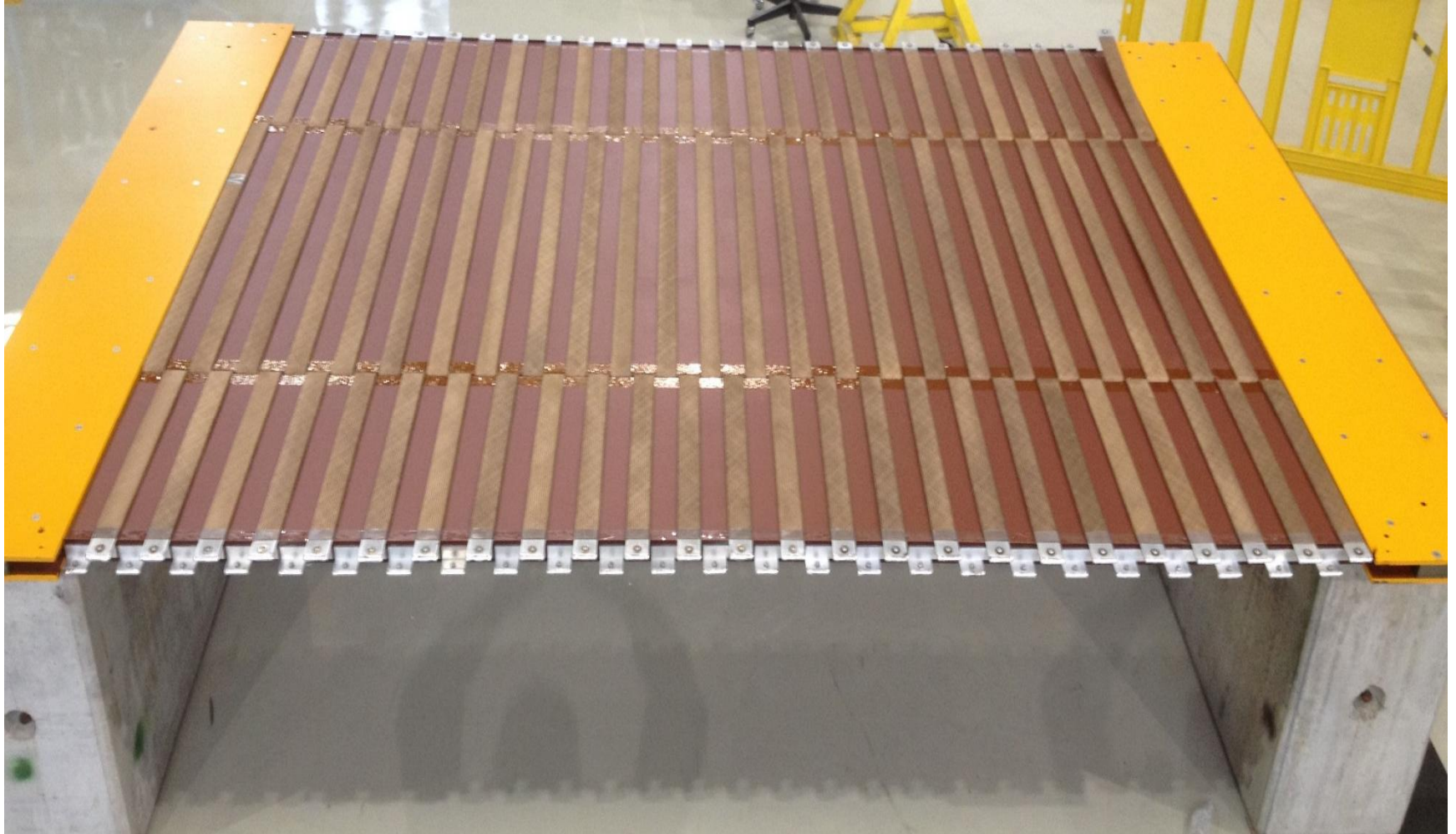
Baby MIND Collaboration Meeting #3
December 8, 2017

Constraints and goals from 2015

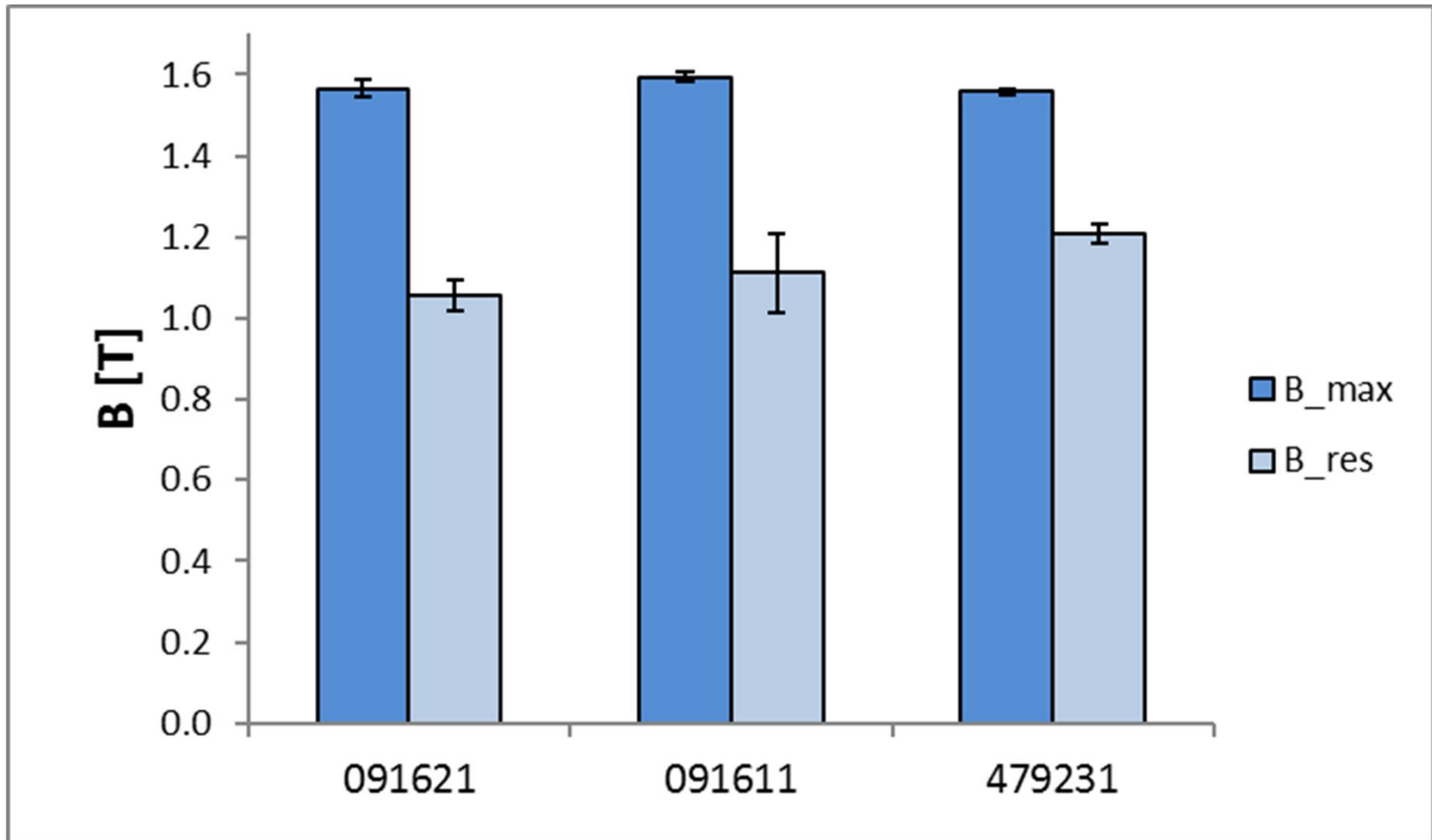
- Plate length is 3500 mm (size of the vertical pit) - *DONE*
- Plate thickness is 30 mm (optimized for physics) - *DONE*
- Plate height is 2000 mm - *DONE*
- Coil thickness less than 10 mm - *DONE*
- Power dissipation to be minimised (stacking and no active cooling) - *DONE*

*The plate has to be magnetised by low current and predictable (homogeneous) field (around 1.5 T) distribution has to be guaranteed - *DONE**

There were a few iterations before the OBVIOUS design even without serious discussions on colours ...



Test results depend on batch



Other tests

- 5 kV test to ground - **DONE**

Was the insulation of the conductor needed...?

- 400 A test of single module to see overheating - **DONE**

It looks to be robust but if some repair is needed it may be done in the pit

- Demagnetisation - **DONE**

It is rather boring procedure with a one-polar powers supply. One may try to use alternating current. The check is easy as the pick up coils are available.

Some evolution of the magnetised plate idea

