## Detector integration

Proposal by Yan

### hypothesis

- 15 layer detector
- 500 um Si sensors, ~90x90 mm2, ~5x5 mm2 pads
- Tungsten planes have a flatness less than 100 um

#### sensors

- Readout : using flex pcb which is glued on the sensor. On top of the flex, a dedicated connector (after agreement with Marek/Jakub). The sensor is fully connected
- HV : a flex pcb which will be glued (maybe partially) on the back of the sensor (the connector will be decided after discussion with Marek/Jakub)

# FEB boards (proposition to be discussed with Marek/Jakub)

- One FEB board will be connected to one sensor
- Size needs to be discussed
- Thickness needs to be discuss asap so we will be able to start the mechanical design

### Sensor gluing





Can be reduced to less than 600um

### Frame : 15 vertical drawers

Each drawer contains:

- 6 or 7 sensors
- One tungsten plane
- FEBs





