

# HBD Construction Update

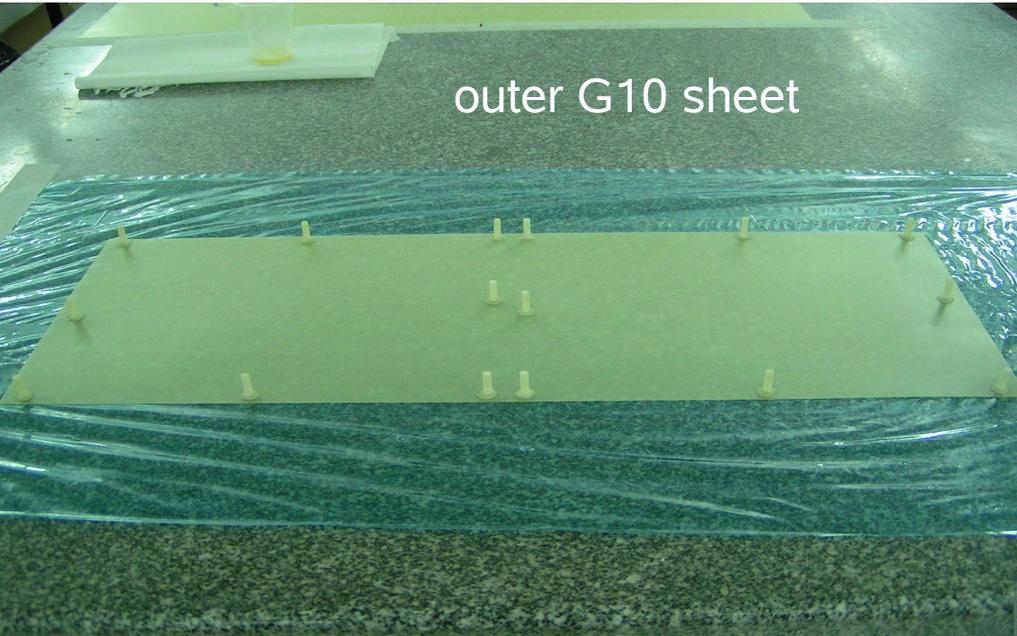
Anand K. Dubey for the Weizmann group

## PCB:

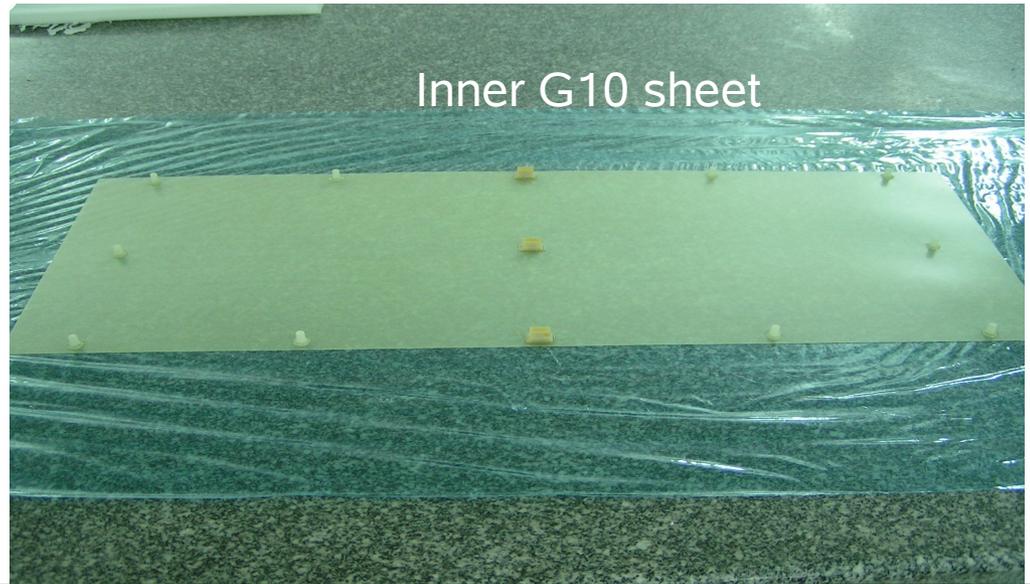
**PCB material arrived at CERN and PCB under production.**

### Panel Production:

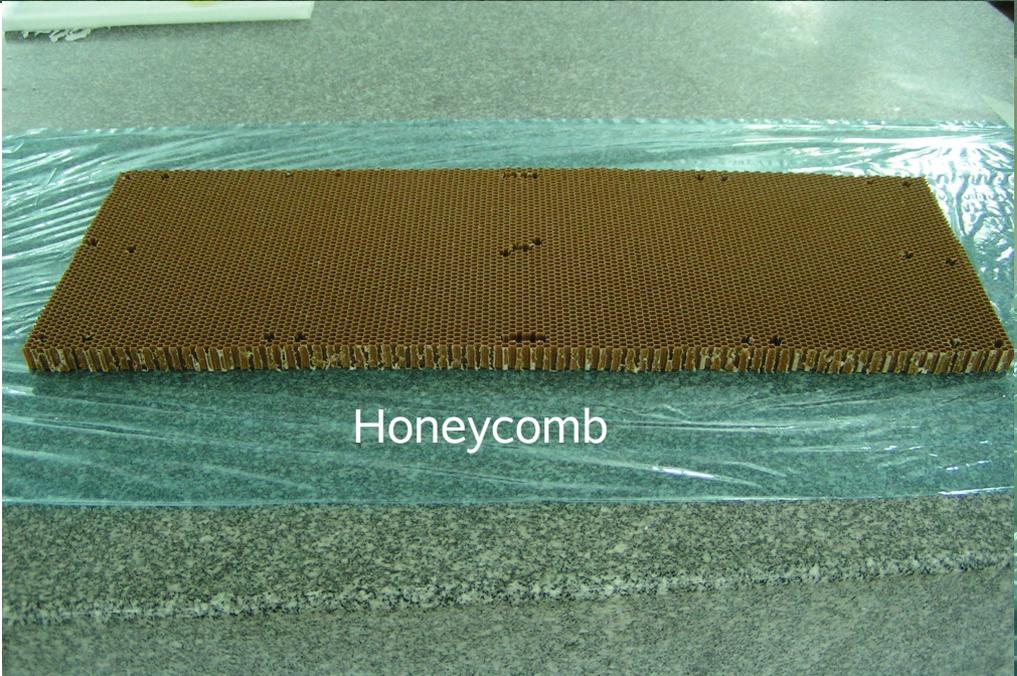
- One HBD Box (One ARM) – has 12 panels: 2 vertical walls, 6 active panels, 2 HV panels and 2 - side covers
- Steps involved :
  1. gluing inserts on the G10 sheet (for active panels)
  2. Gluing these sheets on the honeycomb.
  3. Angle cutting and sealing the vertical sides followed by proper finishing.
- # of panels prepared so far:
  - Vertical Walls : 2( +1 for second box)**
  - Active Panels : 4 are completely ready**
  - 3 are glued and being finished**



outer G10 sheet



Inner G10 sheet



Honeycomb



Fully ready panel

# Outgassing study

- performed in stainless steel vessel having only PCB inside
- Used 5 normal G10 frames
- flushing gas: Nitrogen @ 5 litres/hour)
- empty vessel takes about 70 hrs to come to 10 ppm level
- next step: repeat the red curve

