

ITS3 Tuesday 18th April 2022

WP5 progress report

WP5 collaboration

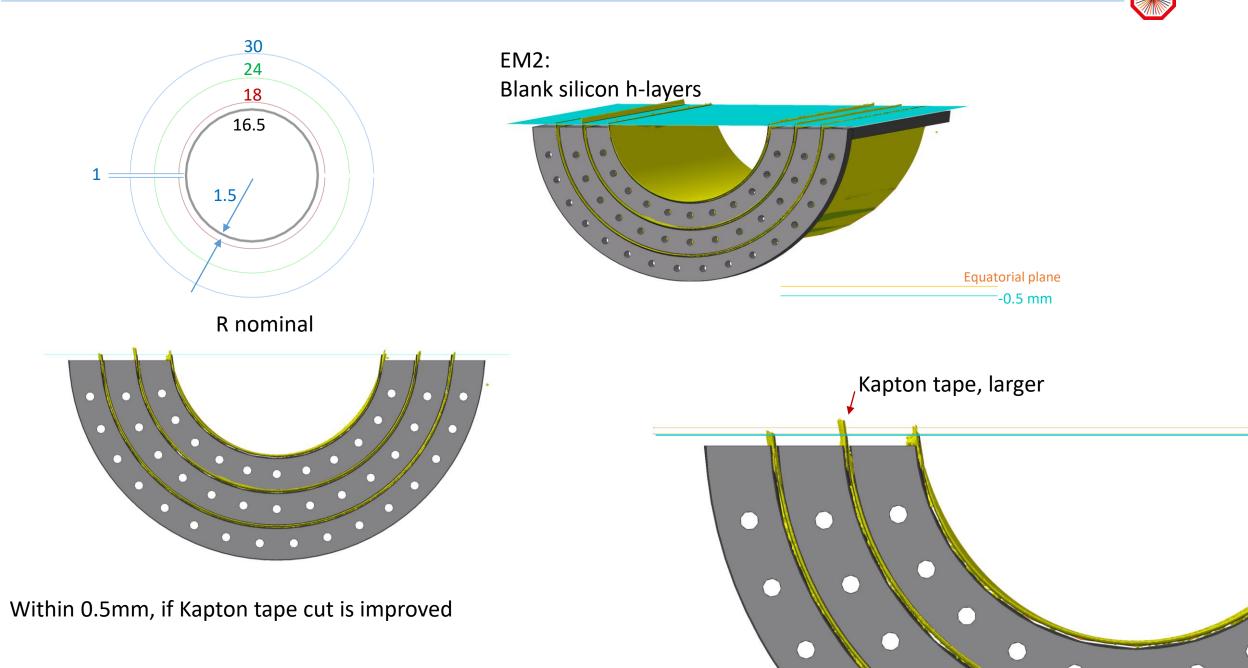
Outline



- Detector layout: tolerances
- Next wind-tunnel tests

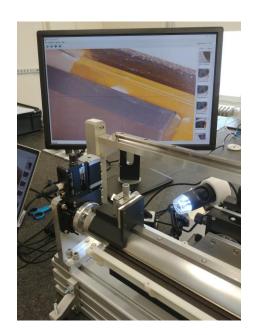
Detector layout: tolerances at equatorial gap

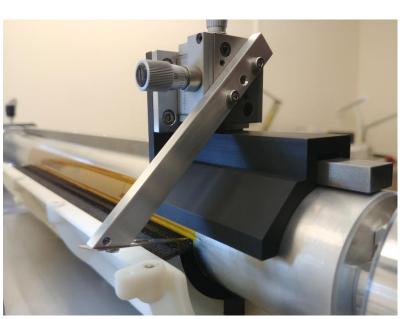
ALICE ITS3 WP5



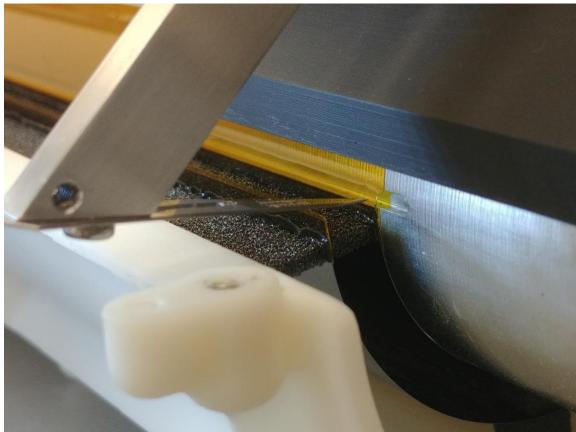
Detector layout: Kapton tape

- Improvement of the cut of the Kapton tape: **NEXT, Pieter**
- → Target: fine cut +- 0.1 mm accuracy over 270 mm length, reasonable?
- → Target: Distance from the Silicon as small as possible according to the above target
 - Define procedure
 - Improvement:
 - Alignment (mandrel and cutter)
 - Fine cut
 - Surgery knife ? (Diamond knives for eyes surgery)
 - Laser cut? (FS laser , other ..)
 - Any suggestions?





EM2 , L1 during Kapton cut







First vibration campaign conclude NEXT:

- Reverse flow direction
- Thermal test (similar to previous one).
- Vibrational tests
- <u>Upgrade of the prototype (target in 2 weeks)</u>
- Thermal test and vibrational tests both air flow direction
- Improvement of the test set-up

Blowing air 3D printing parts: Production on going in Grenoble **Resistive wire** BP with window for the BP with integrated heater for additional displacement sensor, thermal test considering heat coming from BP For vibration measuring of layer0