

Intro / news

- ITS3

- paper on «microITS3»

- Discussion in Krakow with Bogdan and S.Masciocchi

- Bogdan, Gianfranco and Shyam will call for an internal meeting (after the 18th of November), within GSI and Bari teams, to answer the remaining open points.

- Draft of the paper and material should be circulated in advance

- Characterization of the chip prototypes

- participation to test beams in the last months

- BabyMoss (first weeks of September) → with also training for testing
 - Final MLR1 OPAMP test beam (in October)

- Procurement of instrumentations for our lab

- 2 new ⁵⁵Fe sources (from Progetto Quasimodo) received
 - 2 new DAQ boards received
 - 1 BabyMoss and 1 raiser board will arrive tomorrow (others eventually later)
 - Procurement of new power supplies (with funds from Quasimodo) → order to be placed

Intro / news

- ITS3 + other projects

- Procurement of blank large chips for mechanical tests (dummies) from Quasimodo → ongoing

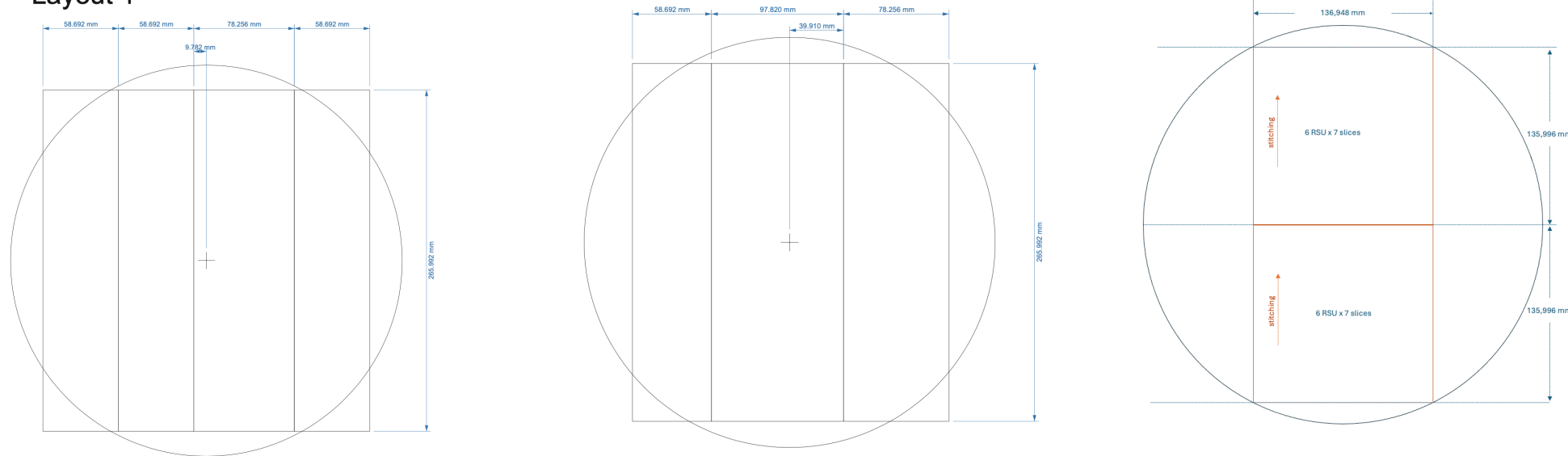
- Layout «SVT-1» --> ITS3: 3 L0, 3 L1 + SVT: 4 L0, 4 L1
- Layout «SVT-3» --> ITS3: 3 L2
- Layout «NA60+» --> PixelChamber: 16 + Na60+: 4

--> 7 wafers

--> 3 wafers

--> 10 wafers

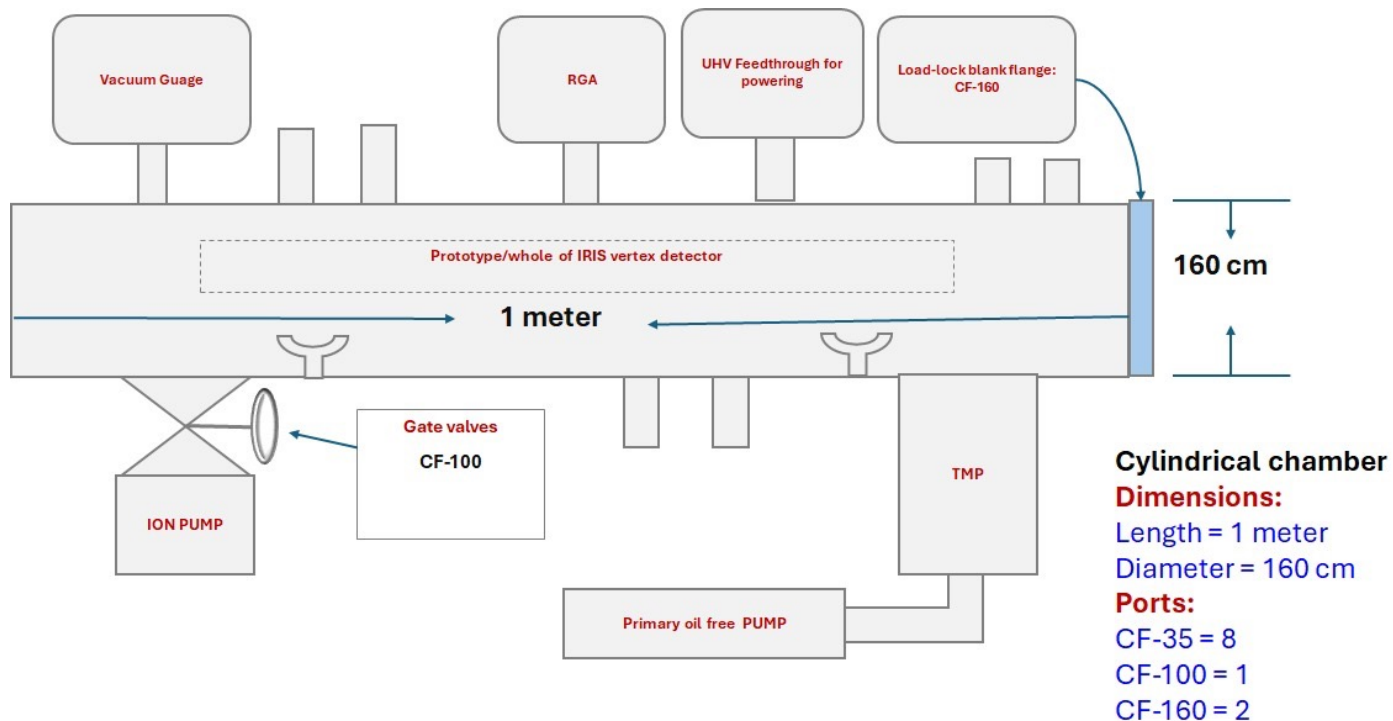
Layout 1



- Next year we should procure either ER2 pad wafers or dummy chips from blank wafers with Cr/Al metal deposition

Intro / news

- ALICE 3
 - Procurement of components for the studies in the vacuum → ongoing
 - Cosimo should place the order the next week at the latest.



Intro / news

- ALICE 3

- discussion in Krakow (Upgrade week) on how to setup «projects» with Work Package substructure

<https://indico.cern.ch/event/1415726/timetable/>

Inner Tracker

- **Chip design (needs two branches, and two WP leaders dedicated to VD/ML)**

- Common items:
 - Common blocks
 - Serial powering
 - Front-end optimisation
- VD-ML optimisation:
 - Development of a small pitch, high radiation tolerance chip
 - Adaptation and configuration for ML
 - Two independent reticle assemblies (VD and ML)
 - Target: submission end of 2025/beginning of 2026

- **Characterisation (shared)**

- Characterisation of chips and modules in vacuum
- Testing of existing prototypes at high radiation level
- Characterisation of bent chips

- **Sensor integration (VD focussed)**

- Lightweight module ('MAPS foil')
- 2.5d / 3d integration of powering and data transmission
- ML integration (for lightweight version)

Intro / news

- ALICE 3







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Inner Tracker

- **ML module/stave design** (*→ will evolve into production*)
- **Mechanics and integration** (two WP leaders dedicated to VD/ML – synergy with OT)
 - VD: retractable in-vacuum mechanics
 - ML: bent or planar module and staves
 - Global integration and interfaces to beam pipe and iTOF/OT
 - Cooling architectures
- **Readout and power supply services** (two WP leaders dedicated to VD and ML)
 - Vacuum integration
 - Radiation hardness
 - Serial powering
- **Physics performance and response simulation** (*common to OT*)
- **Detector Control System** (*not starting yet*)
- **Calibration and data quality assurance** (*VD needs to start first*)
 - Alignment procedures for the IRIS

Agenda today

11:40	→ 11:50	SVTX @ EPIC	🕒 10m	📝
Speakers: Cosimo Pastore (Istituto Nazionale di Fisica Nucleare), Domenico Colella (Istituto Nazionale di Fisica Nucleare), Domenico Elia (Istituto Nazionale di Fisica Nucleare), Giovanni Francesco Ciani (Istituto Nazionale di Fisica Nucleare), M Teresa Camerlingo, Maria Teresa Camerlingo (Istituto Nazionale di Fisica Nucleare), Roberto Perrino (Istituto Nazionale di Fisica Nucleare), Vincenzo Valentino (BA)				
 20241105_BariInter...				
11:50	→ 12:20	micro-ITS3: status of paper/analysis	🕒 30m	📝
Speakers: Francesco Barile (Istituto Nazionale di Fisica Nucleare), Giovanni Francesco Tassielli, Shyam Kumar (Istituto Nazionale di Fisica Nucleare)				
12:20	→ 12:30	ITS3 new chip prototypes: characterization in laboratory@Bari and in test beam	🕒 10m	📝
Speakers: Angelo Colelli (Istituto Nazionale di Fisica Nucleare), Francesco Barile (Istituto Nazionale di Fisica Nucleare), Rajendra Nath Patra (Istituto Nazionale di Fisica Nucleare), Shyam Kumar (Istituto Nazionale di Fisica Nucleare), Triloki Triloki (INFN Bari Italy)				
 Bari_meeting_baby...  pres_attività ITS3_B...				
12:30	→ 12:40	ITS3 BBM6 and SuperALPIDE	🕒 10m	📄 Minutes 📝
Speakers: Antonio Valentini, Cosimo Pastore (Istituto Nazionale di Fisica Nucleare), Domenico Colella (Istituto Nazionale di Fisica Nucleare), Giovanni Francesco Ciani (Istituto Nazionale di Fisica Nucleare), M Teresa Camerlingo, Maria Teresa Camerlingo (Istituto Nazionale di Fisica Nucleare), Sabino Martiradonna (Istituto Nazionale di Fisica Nucleare), Triloki Triloki (INFN Bari Italy)				
 ITS3_dcolella_2024...				
12:40	→ 12:50	Inner Tracker ALICE3	🕒 10m	📝
Speakers: Cosimo Pastore (Istituto Nazionale di Fisica Nucleare), Domenico Colella (Istituto Nazionale di Fisica Nucleare), Triloki Triloki (INFN Bari Italy), Vincenzo Valentino (BA)				
 Outgassing_Study_...				
12:50	→ 12:55	Applications (medical devices)	🕒 5m	📝
Speakers: Domenico Colella (Istituto Nazionale di Fisica Nucleare), Dr Fabio Colamaria (INFN - Sezione di Bari)				
 Sonda RGS e Compt...				