

2022 plans @ IPHC

- **Ziad El Bitar** replacing **Jeremy Andrea** as a IPHC contact person (Jeremy still involved in FCC).
- Involved persons: Z. El Bitar, J. Andrea, A.B.
- R&D in CMOS pixels sensors still on track
 - ✓ **MIMOSIS chip for CBM/MVC @ FAIR**
 - Mimosis-1: 4 test beam campaigns. Results match expectations
 - Mimosis-2: submission in Q1 2022 ⇒ test beam campaigns
 - ✓ **New 65 nm technology: 65 nm detects charged particles !**
 - R&D driven by CERN
 - 1st submission in 2021
 - IPHC: CE_65 prototype ⇒ new test beam foreseen in 2022
 - 2nd submission in 2022
 - IPHC: CE_65++: new version (various pixel size explorations)
 - participation to stitched sensors (MOSS/MOST)
 - ✓ **2022: Bent sensor tests with MIMOSIS**
- 1 ANR deposited with IP2I (FCCee & long lived particles)
- M2 Internship & PhD
 - ✓ 1 Higgs factory internship b/c tagging and Vertex detector optimisation: LCFI+ software.
 - ✓ 1 PhD: (applied to be funded by Region/University)
 - CMOS R&D (test beam analysis)
 - Physics analysis (Higgs couplings) + b/c tagging optimisation w.r.t. Vertex detector design
 - FCCee/ILC comparisons ⇒ depends on Software portability
 - ✓ 1 Phenomenology internship @ FCCee : long lived particles ? (to be confirmed)

