

2023 SPS beam test schedule

- This is the schedule provided by Xingzhu:
 1. September 1st, the beam test model with ~1000 cubes arrived at CERN.
 2. August 15th , the beam test model is ready to ship
 3. July 15th~August 15th, the assemble test of CALO with the Intensified scientific Cameras
 4. May 15th ~July 15th, the assemble and test of CALO Array (layer by layer and $7*7*21$ as a whole).
 5. May 1st ~May 15th , the assemble of LYSO +PD + WLSF, PD performance test
 6. April 1st ~May 1st, the gluing procedure of PD was defined and the ~1000 PD shipped to IHEP.
 7. December 15th,2022 ~ January 15th,2023, several PDs in the ~100 pcs ship to IHEP to determine the effect on the light collection on WLSF.
- Dead-line for PD system delivery to IHEP:

Few PD pcs to IHEP: **December 2022. Done!**

~1000 PD pcs to IHEP: **April 2023.**

Kapton cables and first electronics board to IHEP: **June.**

Complete set of electronic boards to IHEP: **July.**

Status of PD system for SPS2023

- New PDs with monolithic package.
 - Excelitas will send the PDs to Florence in early April.
 - Then, we will send the PDs to IHEP (it will takes about one week).
 - We expect that 1050 PDs will arrive to IHEP during the last week of April.
 - We are not able to speed up the PD delivery since Excelitas can not send the PDs directly to IHEP.
- New electronic boards (TROC2s)
 - Two new TROC2s are present in Madrid and Florence.
 - First tests of new HiDRA3 chips feature promising results.
 - Few updates of the firmware are needed to start a complete set of tests.
- New kapton cables:
 - We received a sample of the new cables.
 - The noise of the system with the new cable is consistent with the expected one (<25 ADC, MIP peak is >100 ADC)
 - We will perform new tests with the new TROC2 boards.

Tentative schedule for PD team to IHEP

- New PDs will arrive in IHEP during the last weeks of April.
- Our proposal about the first visit to IHEP:
 - Depending on the PD delivery time, Oleksandr and Lorenzo could stay in IHEP from April 24th to 28th or from May 1st to 5th.
 - Could you please provide an invitation letter for the time period: April 22nd and May 7th ?
 - Preliminary plan: define and start the gluing procedure, test PD signals.
- Second visit to IHEP:
 - It strongly depend on the electronics board test results and assembly procedure.
 - Tentative period: middle of June, but we can not confirm this time period yet.
 - Plan: start the PD - kapton cable soldering and test PDs with TROC2.