

SOME LABS UPDATES

1) SiPMs for protoDUNE-VD arriving on Monday (November 28)

- > We will receive 14 flexi-boards (280 SiPMs in total)
- > They will be tested in groups of 6 boards per day
- > If everything goes as expected we need 2.5 days
- > The boards must be at CERN by December 9

Not sure about deliveries the week of December 6 -8 ??

- > The plan is to finish all the tests by Friday, December 2
- > Schedule:

November 2022

< Today >

Mon	Tue	Wed	Thu	Fri	Sat	Sun
28	29	30	1 Dec	2	3	4
LN ₂ arrival	Connectors + commissioning	6 boards	Measurements 6 boards	2 boards	Send to CERN	SBND Collaboratio...
SiPM arrival						

to be adjusted as we move forward

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2) SiPMs test protocol:

- i) 2 thermal cycles: 3 min gas + 30 min liquid (each cycle)
- ii) IV-reverse curves in LN₂ (during the 2nd cycle): ~ 30 min total
- iii) DCR in LN₂ (3rd cycle): 40 min per board (~ 4h)
- iv) Warm test for continuity: ~1h

Volunteers willing to learn about SiPMs are welcome on Thursday & Friday !!

-> Same Hamamatsu model we tested in June, same cold & warm amplifiers, so we do not expect major problems.

-> We will work at +3V OV (VD need), meaning 45V cold, 55V warm

3) Others topics:

- > No news from Criotec Impianti
- > Gas nitrogen & helium: waiting for a certificate
- > Pressure regulators in 2 weeks