

CZ – Prague

SiPM massive testing

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HPK-ESP testing

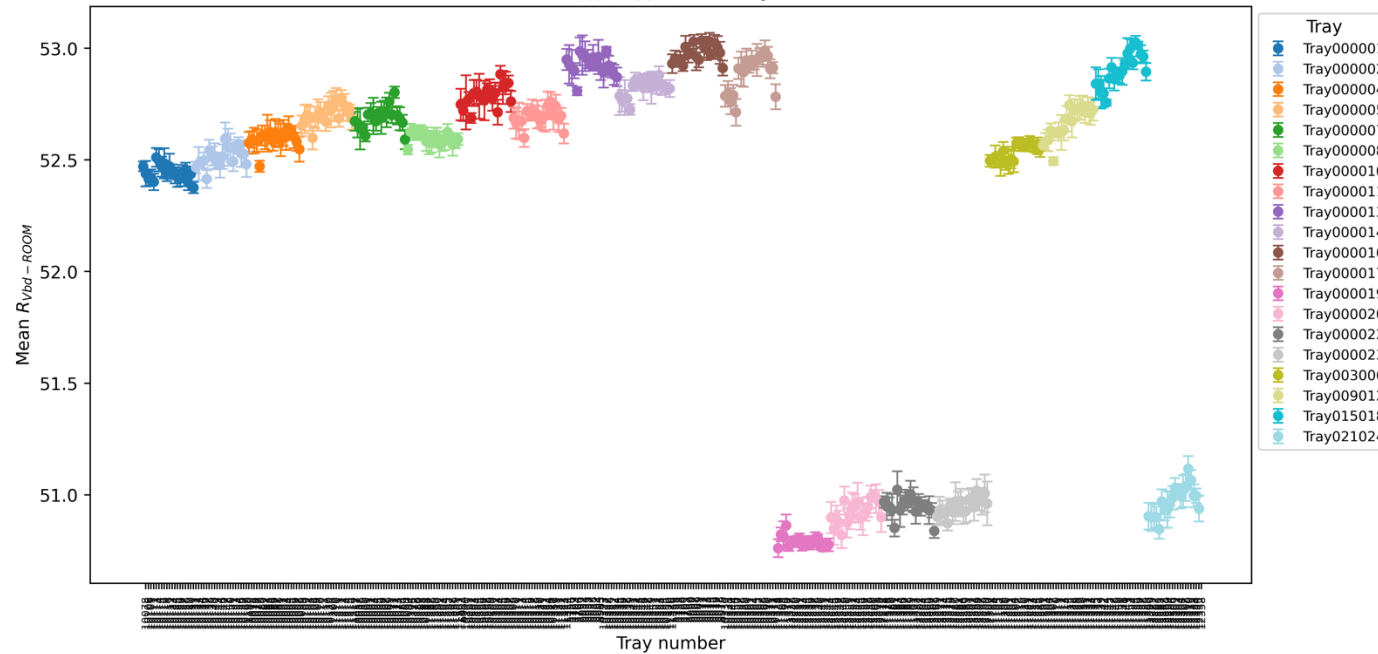
- All boxes measured and analysed 7 boxes + 50 trays
- 6 boxes are back in Madrid
- Last box (#18) + 50 trays small box on the way (Oct 4th)
- Fighting with (temporary) DB to upload results, "just before finished"
 - One parameter issue, don't know where. Idea to move another box in case some internal issue with spreadsheet results?

HPK-ITA testing

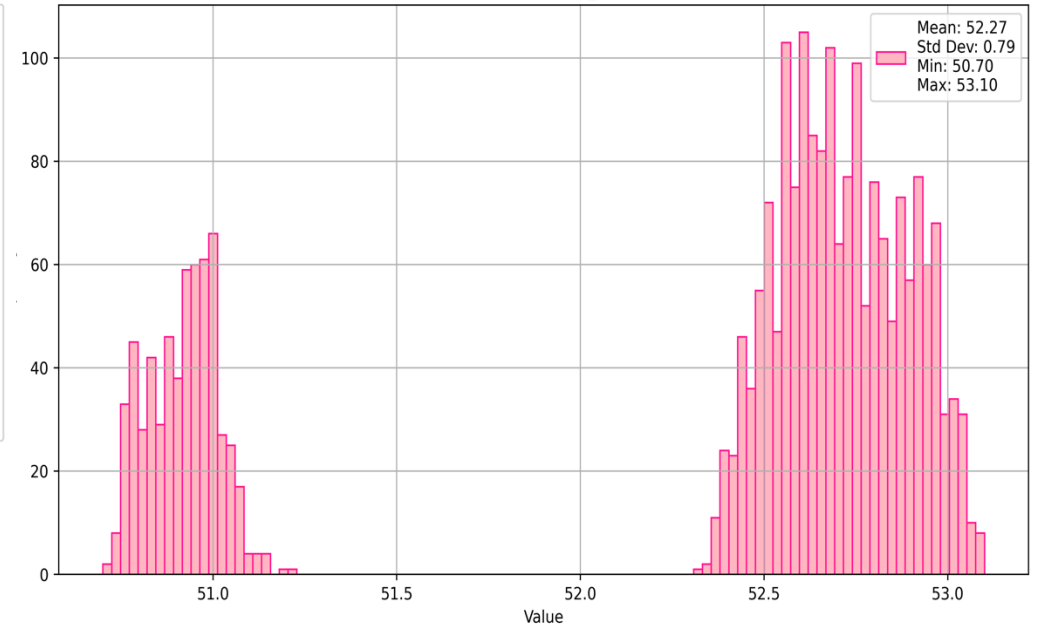
- Measured 3 boxes: #1, #2, #7
 - Box #8 we will finished in a week or two...
- 2 boxes analyzed
 - First box looks good, similar to HPK-ESP
 - We are studying the second box, may need more attention,
 - we might see some scratches on the SiPM surface too.
- **What is a plan toward the end of this year?**
 - We have 0.6 FTE student hired, experienced over summer
 - Able to measure 5-6 trays a week -> one box per month
 - In this case we need approx. 2+ boxes, if no issue.

HPK - ITA: Box01-I01-Prg08 – Vbd T_room

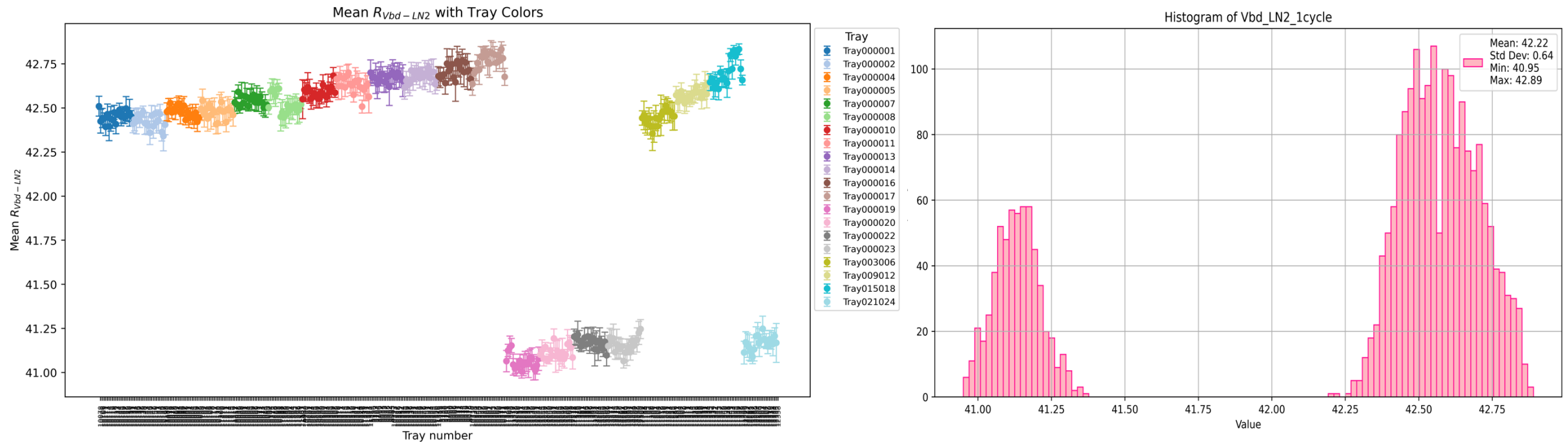
Mean $R_{Vbd-ROOM}$ with Tray Colors



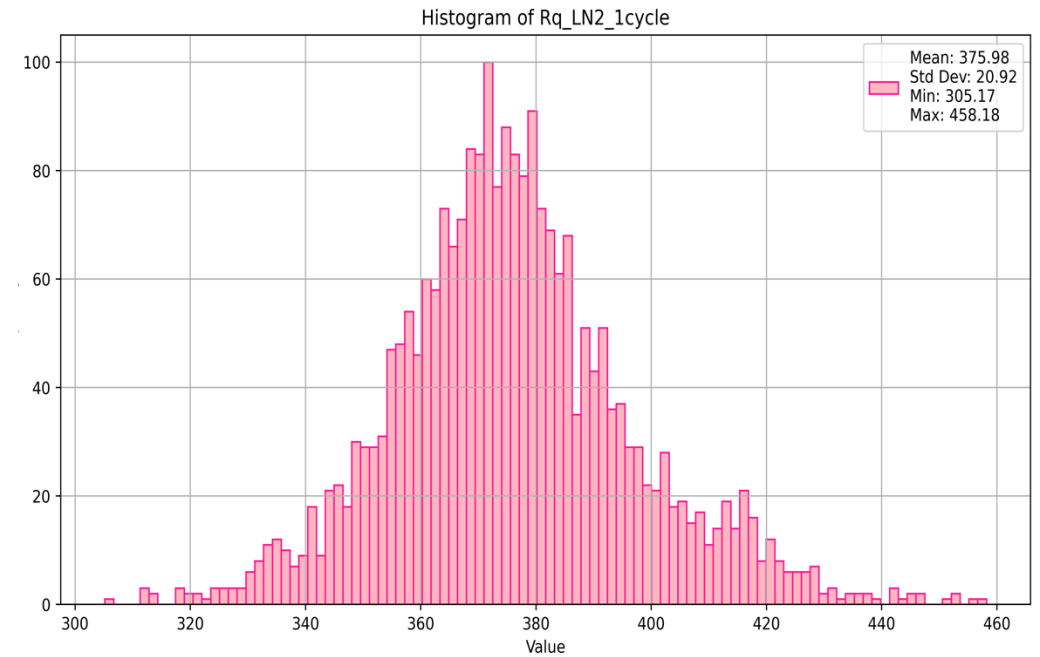
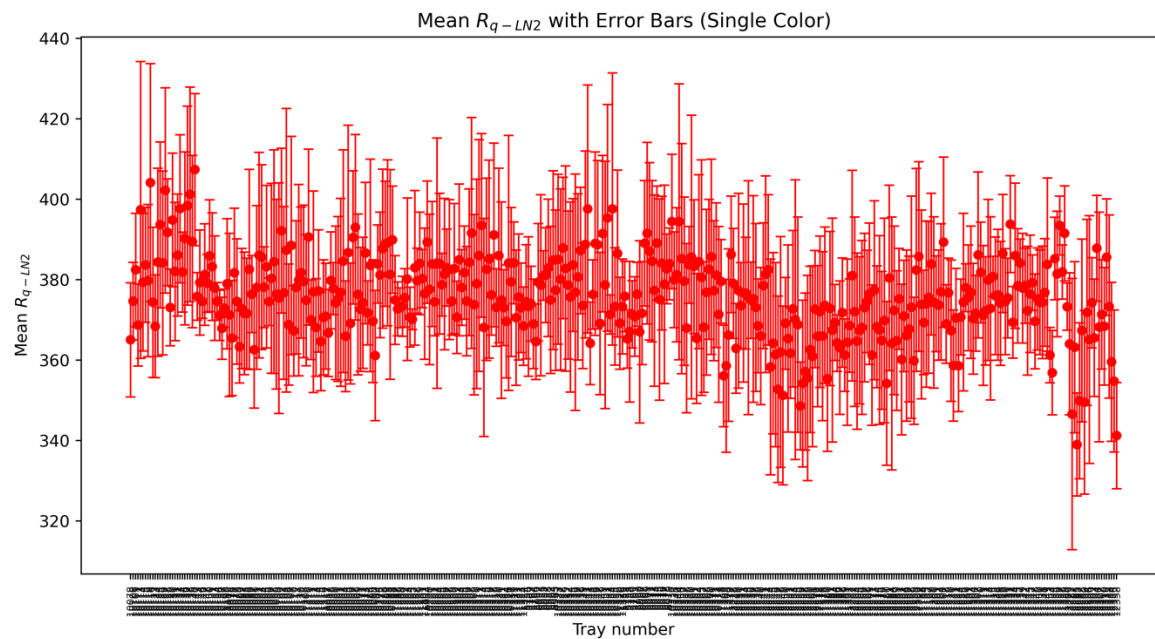
Histogram of Vbd_ROOM



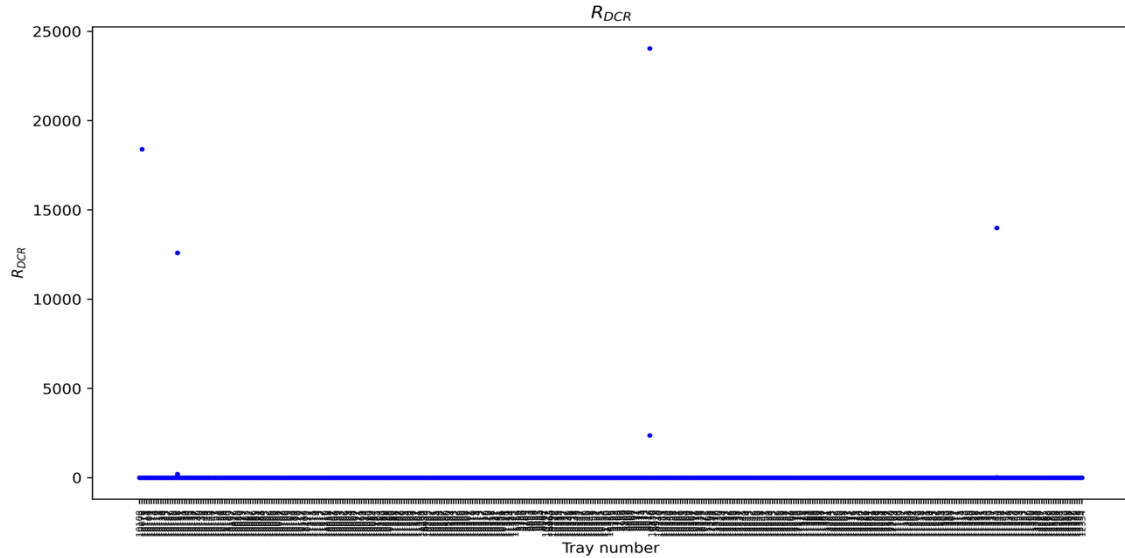
HPK - ITA: Box01-I01-Prg08 – Vbd T_LN2 (1st)



HPK - ITA: Box01-I01-Prg08 – Vbd T_LN2 (1st)



HPK - ITA: Box01-I01-Prg08 – DCR



The DCR results higher than 100 – bad SiPM expected

Strip: 10078	SiPM location: 4	DCR value: 18396.15
Strip: 10128	SiPM location: 4	DCR value: 12597.15
Strip: 10128	SiPM location: 2	DCR value: 203.8916666666667
Strip: 6976	SiPM location: 4	DCR value: 24046.558333333333
Strip: 6976	SiPM location: 2	DCR value: 2365.2166666666667
Strip: 11344	SiPM location: 3	DCR value: 13995.941666666667

The DCR results equal to 0

Strip: 10134	SiPM location: 2	Tray number: <u>Tray000002_Prg8_I01</u>
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