

Technical Board Meeting:

News, communications &
planning



September 4, 2017



Caroline Riedl



Communications

- **Next TB meeting:** November 7, 2017
- **TB meeting in December?**
(Again dedicated to >2020?)
Suggestions see ? in calendar.
- **TB meetings 2018:** to be suggested after this collaboration meeting, latest at next TB meeting

W#	Monday	Tuesday	Wednesday	Thursday	Friday
44			1 <i>All Saints Day</i>	2	3
45	6	7 TB ECT workshop	8	9	10
46	13	14 AM	15 AM	16 CM	17 CM
47	20	21 PBS workshop	22	23	24
48	27	28	29	30	

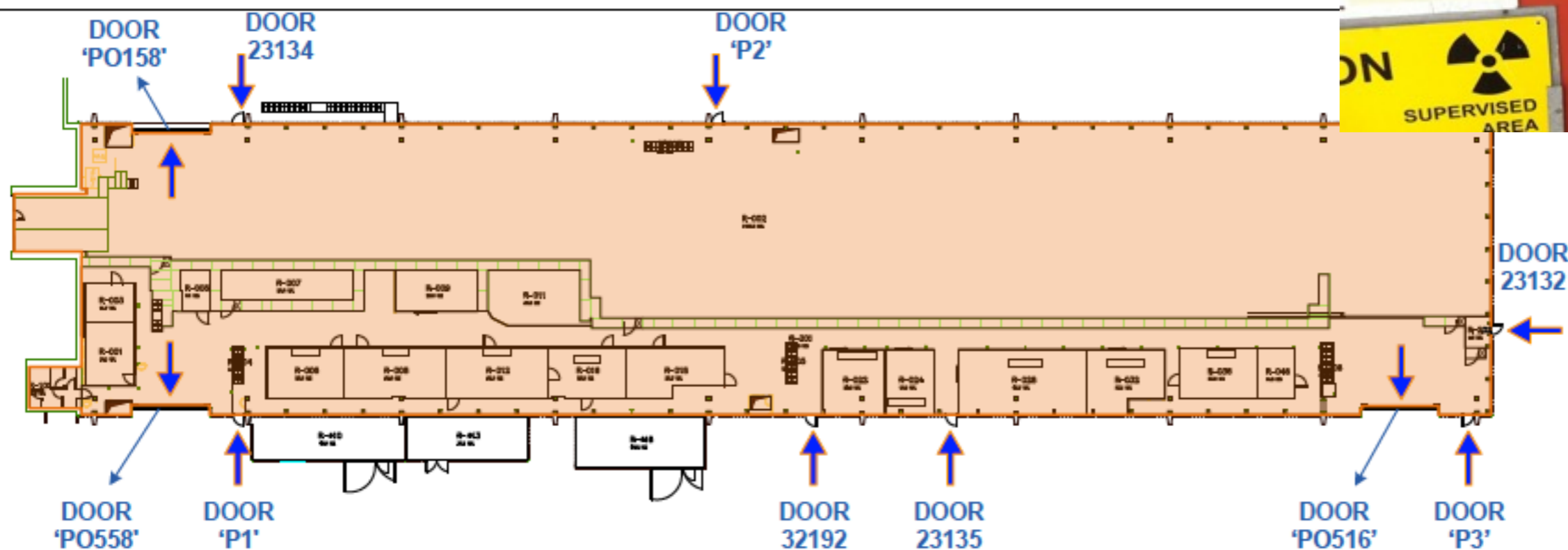
DECEMBER 2017

- **TB composition:**
Andrea Ferrero will step down as TB member after this year. Candidates?

W#	Monday	Tuesday	Wednesday	Thursday	Friday
48					1 ?
49	4 ?	5 (sub)	6 (sub)	7 AM	8 AM
50	11	12	13	14	15 Transversity workshop
51	18	19	20	21	22
52	25 <i>Christmas Day</i>	26	27	28	29

SUSI access to 888

- 888 is being equipped with SUSI system = Access control system and video surveillance, requiring the use of your dosimeter
- Some SUSI panels installed, system not yet active. (Waiting for main power points and IT sockets to be ready)



- Wear: your dosimeter, closed shoes, helmet

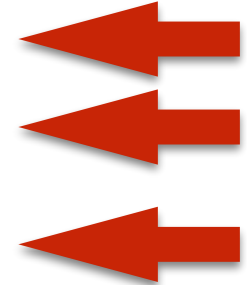
<http://dosimetry.web.cern.ch/en/content/personal-dosimeter-employed-or-associated-members-personnel>

Personal dosimeter for employed or associated members of the personnel



You can obtain a personal dosimeter if you meet the following conditions:

1. You have a valid contract with CERN and, in this context, you are required to work in a CERN *Radiation Area*.
2. You have successfully completed the appropriate CERN radiation protection training.
3. You have read and signed the CERN Personal Dosimeter - Reception Form (pdf). You need to sign this document only the first time you request a dosimeter.



c. Associated members of the personnel (MPA, other than MPA-t)

If you are an associated member of the personnel other than for the purpose of training, you must provide either:

- a. a valid and up to date radiation passport
- b. a certificate in the prescribed format signed by your home institution. If you encounter difficulties in filling in and signing the certificate, please contact the Dosimetry Service.



Short-term dosimeter for associated members of the personnel (except MPA-t)

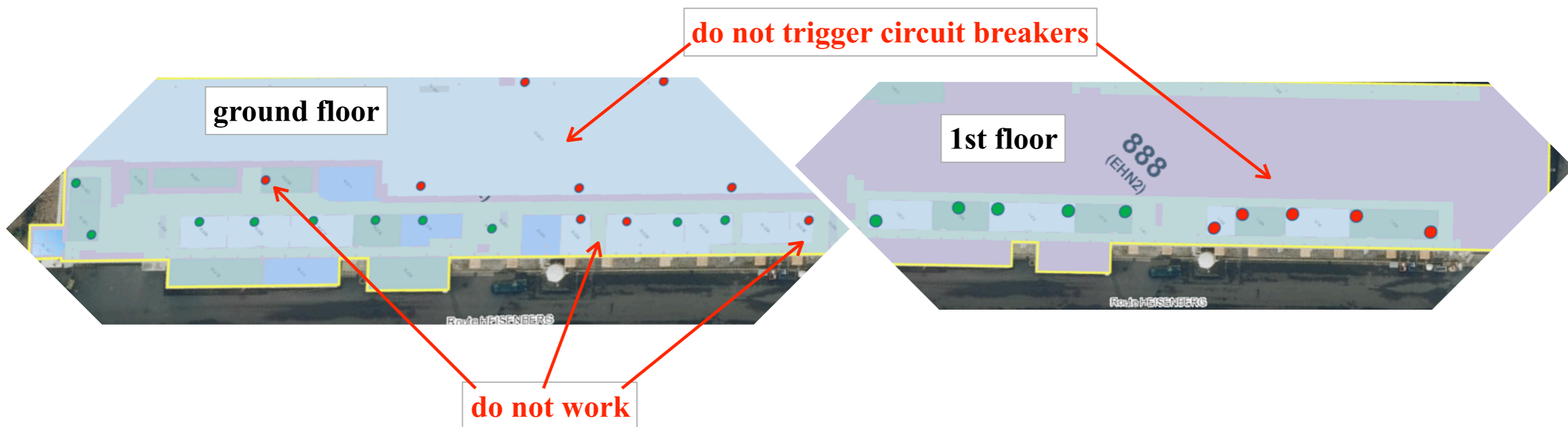
If you stay at CERN for less than 2 months in a calendar year and work only in *Supervised Radiation Areas*, you may request a short-term dosimeter without the need to provide any of the above documents (radiation passport or home institution certificate). In this case your maximum allowed personal dose is limited to 1 mSv per year. The two months period can be fractioned over the calendar year. Please return your dosimeter whenever you leave CERN or when you are absent for several weeks.

dosimetry.web.cern.ch/en/content/personal-dosimeter-employed-or-associated-members-personnel

AULs in 888

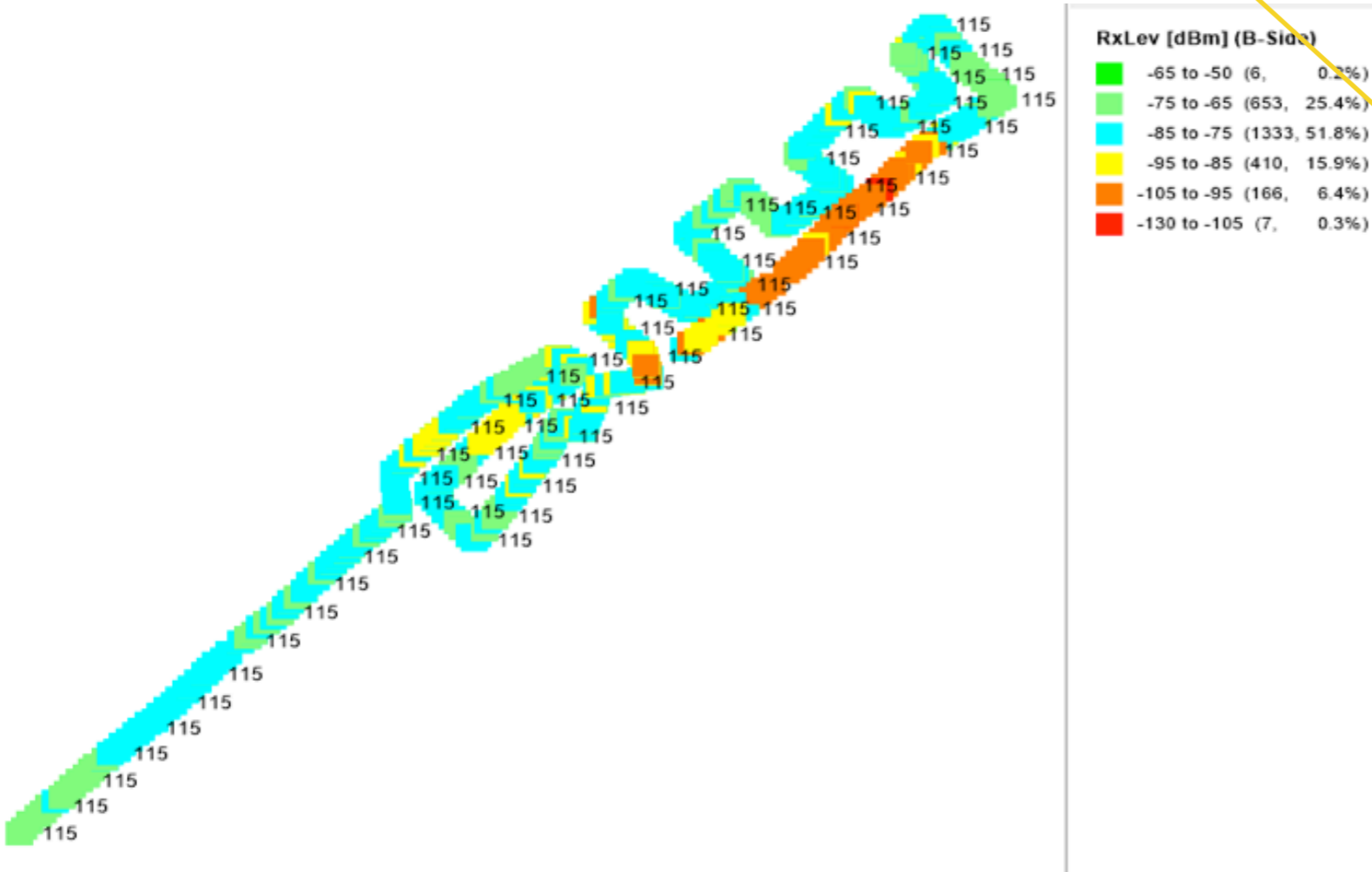
- Test carried out April 6, 2017, faults found
- **Use AUG instead!**
- Faulty AULs will be replaced by EN-EL during YETS. Details will be discussed with them this Wed (Sep 6).

AUG = arrêt d'urgence généraux
(general emergency stop)
AUL = arrêt d'urgence locaux
(local emergency stop)



GSM coverage in 888

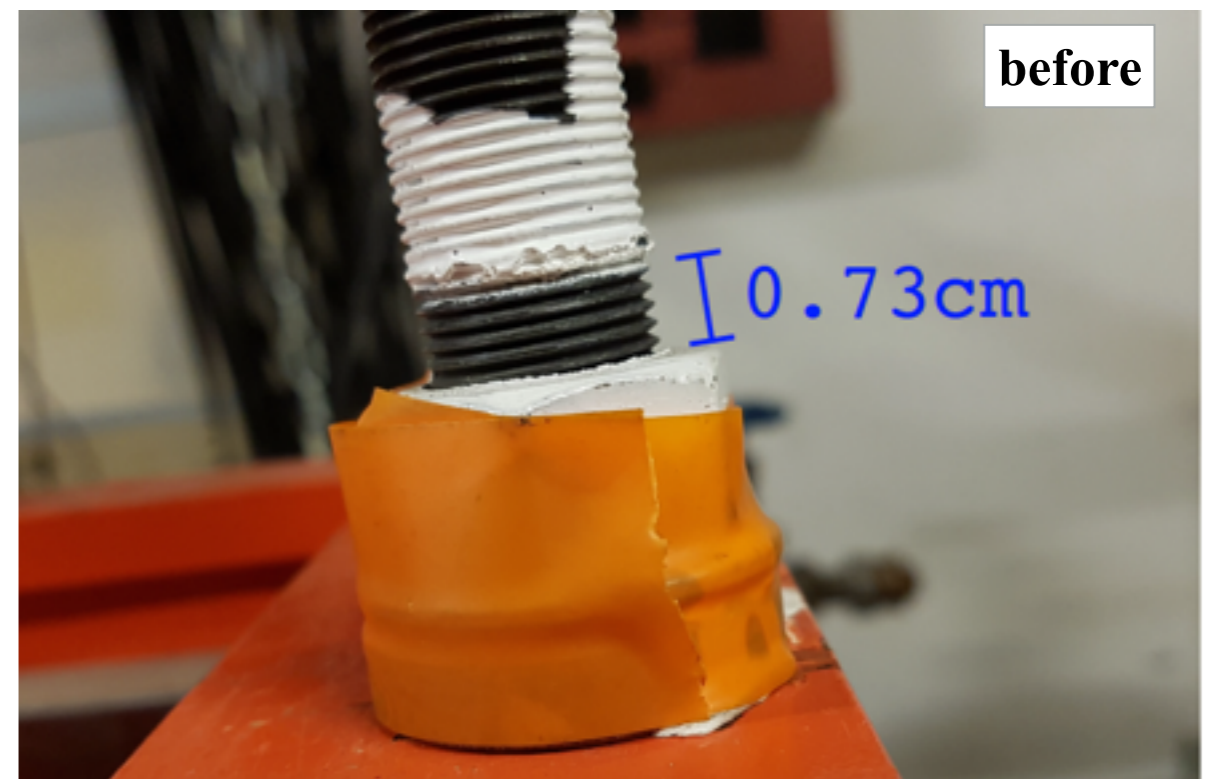
- Mobile phone coverage poor for many of us, even after intervention (repeater installed) in summer 2016 & further network upgrades in July 2017.
- Meeting with Stefano Agosta (IT-CS) on August 30, poor reception spotted in aisle between concrete wall Saleve and barracks.
- EN-EL will pull additional cable from repeater box in the back of 888 along the aisle between concrete & barracks.



BMS3 correction of forward tilt

Annika & Jens

- BMS3 forward tilted by 1.3° , window touching beam pipe. Very likely since beginning of 2017 run (the last time it was moved).
- One of the positions of the screws on the upstream holder leg was modified.
- August 30, 2017: intervention by Annika and Jens to make it vertical again, fixing screw to its old position.



CEDARs

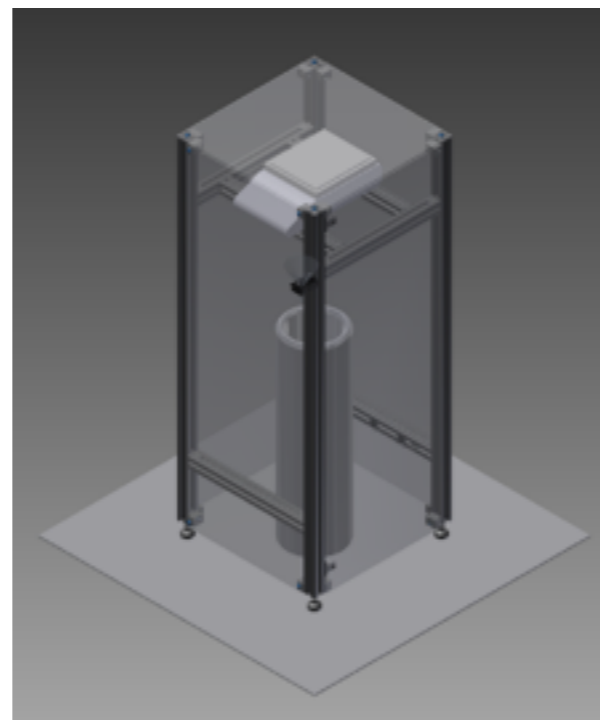
- Thermal stabilization: EN-MME have started some calculations about the thermal stability of the CEDARs and have requested information about localization of the heat load. Marcin / Robert have provided this information on August 17.
- Funding from Academia Sinica (Taipei), Wen-Chen: *In a new grant approved by MOST (Ministry of Science and Technology) Taiwan, we received an equipment fund of NTD\$0.5M (~14K Euro) for purchasing the PMTs in CEDAR upgrade. Since the purchase of PMTs has been covered by our institute equipment fund, this money could be used for buying the readout electronics (commercial modules). This money is available now and until the end of 2018.*
- More and other details in Marcin's talk later today.

Polarized target

- **New AC units in target pump room:**
Old unit runs with chemical that is not allowed any longer.
New units: use chilled water.
old (on roof): 59 kW, 9,800 m³/h air flow
→ considered to be overestimated
new (inside pump room): (2+1) units, each 9.6 kW & 4,060 m³/h air flow
- **Two new safety valves** (quenching) installed August 30.
- Preparation of target material inspection (Nori, Yaakko): Didier is building a **weighing table**.
- More in Nori's talks later today.



1m x 0.5m x 0.3m



Other news & events

- **Water supply inventory** in 888 upon request with Bill Bannister from EN-CV-OP (Annika, Caroline): August 2017
- **RICH radiator gas (C₄F₁₀)**
 - Sample received from LHCb, purity not suitable. Try different batch.
 - Currently ~75% C₄F₁₀, ~25% N₂. (normally 5% N₂), will be ~65% by the end of the run
 - More in Fulvio's talk later today.
- **MCB_error during SM2 ramp down:** assumed to be fixed during MD August 30.
- **Beam-dump experiments:**
 - before Sept. 6: Freiburg, SiPM & fiber (Bachelor project)
 - after Sept. 6: Munich, SiPM irradiation

Storage of detectors not needed in 2018

- CAMERA: request by Saclay group to place it in the ECal0 cage in 888 until the 2018 apparatus is readily commissioned.
- However, also ECal0 will be removed from the spectrometer and will be placed in the caged area.
- An estimate of required space is needed for both detectors!
- Anything else?

Experimental areas are no permanent storage space!

Stored items on the top of the beam tunnel have to be cleaned up and eventually have to be removed. In case of a magnet failure (e.g. QUAD36), there would otherwise be some serious downtime.

(JB reminder 2017-09-01)



New storage area close to 888

(More) Messages from Johannes

- Johannes made contact with EN-ACE to start a project for a new storage area close to 888.
- Idea: similar to the building on your right hand side when walking to R3.
- Can be heated during winter to keep humidity at low level.
- He asks us to send our requests: what do you want to store and how large is it?



- **A new radio protection buffer zone in 888** is planned before LS2.
- Used to measure materials coming from the experimental area and the beam line tunnel before being transported out of 888.
- Some area has to be reserved, ECal0 cage is a popular candidate.

Agenda

- 9:35 - 9:45 Report from the EATM (Annika)
- 9:45 - 10:15 2017 CAMERA (Andrea F.)
- 10:15 - 10:45 2017 RICH (Fulvio)

Coffee —

- 11:00 - 11:20 2017 Target LH2 (Nori)
- 11:20 - 11:40 2018 Target polarized (Nori)
- 11:40 - 12:15 Round table

Lunch —

- 13:30 - 14:00 2018 Planning (Caroline, Vladimir)
- 14:00 - 14:30 2018 CEDARs (Marcin)
- 14:30 - 14:50 2018 DAQ requirements (Igor)
- 14:50 - 15:10 2018 Radio protection (Angelo / Caroline)
- 15:10 - 16:00 2018 Modifications of setup (Caroline et al.)

DM —

continue if not finished yet