



Report

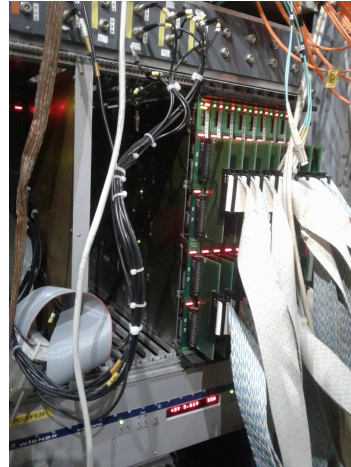
COMPASS Week 44/45 Coordination November 2-9, 2018 Jan Friedrich

Friday 2.11.2018

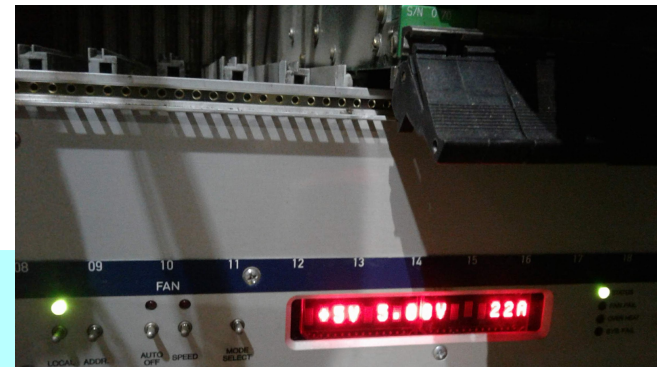


62545 General M. Pesek 02 November 2018, 13:26 Taking data with random trigger

50 minutes of beam wasted! Please pay more attention to the trigger setting prior to starting a run!



unplugging the unused TDC cards reduced the power consumption of the crate from 55A to



62546 DC V. Frolov, J. Friedrich, V. Andrieux 02 November 2018, 19:14 Fan failure for pccofe20 VME crate

It took some times to identify a spare fan tray but in the end it has been exchange with the fan tray from SciFi Warsaw crate. That crate is not used this year and its power-supply was already taken in the beginning of the year to supply pccofe13.

For information, pccofe20 is used to supply DC04 threshold card.

solved also the recurrent issues with pccofe20?

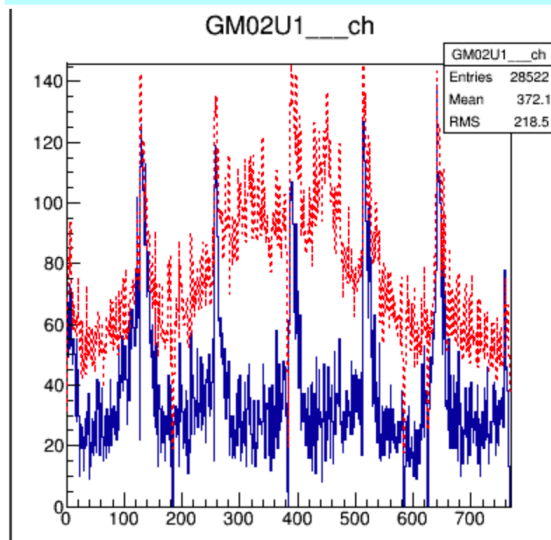
good spills taken 13:30-18:00 and 19:00-24:00: 1165

Saturday 3.11.2018



smooth data taking until 3:07, then
HV drop for GEM01-04, failure of CAEN module

62549 GEM A. Amoroso 03 November 2018, 03:43 [HV undervoltage on GEM 1-2-3-4](#)



*in case of serious detector failure,
call:*

- *detector expert (all available numbers!)*
 - *week coordinator*
 - *run coordinator*
- at any time!*

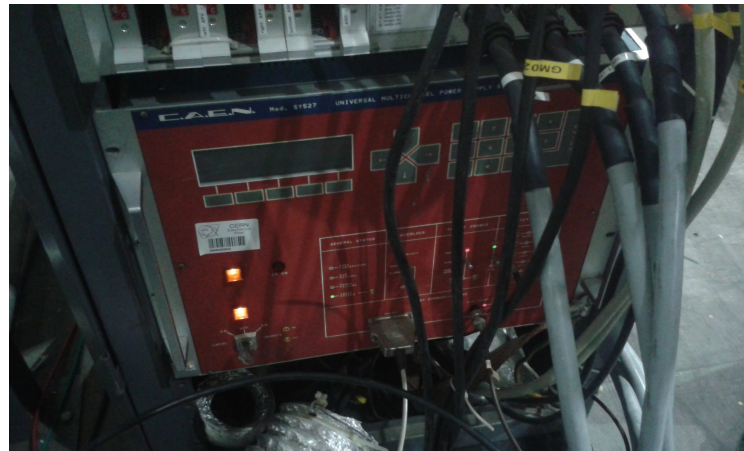
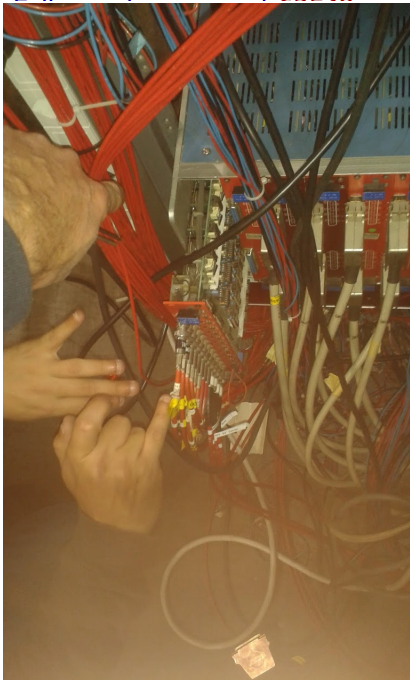
left unattended until about 12:00 (9h of beam time wasted)
2h more needed to fix problem

Saturday 3.11.2018



62550 GEM C. Pires, J. Friedrich, V. Andrieux 03 November 2018, 15:03 GEM 1, 2, 3 and 4 HV board replaced

Board 00 from GEM_CCR1 on the gallery was replaced by another HV board from GEM 11 and now HV channels for GEM 1, 2, 3 and 4 are working again.



another smaller problem with GM04U solved by reloading (16:35-16:50)

good spills taken 16:50-24:00: 795

Sunday 4.11.2018



some smaller problems

- PMM reloading 5:54-6:02
(MP02X,Y,U,V, each half is low)
- decoding errors due to MM errors
- Straw HV's tripped 20:06

good spills taken 0-24: 2928

Monday 5.11.2018



some smaller problems

- IN2 trap nitrogen warnings
- beam: QUAD35 has +129A instead of -129A
13:40-14:40, intervention by piquet
(160 good spills)
heavy effect on trigger and veto rates
- 21:00 PMM SID381 gets stuck (pccofe15)

"good spills" taken 0-24: ~3200

Tuesday 6.11.2018



some smaller problems

- RICH HV lost, some channels lost
- disk alarm pccore14

data taking in parallel to LHC filling

good spills taken 0-21:00: ~2100

21:00 General AUL power cut in 888

(alarme d'urgence locale)

Tuesday 6.11.2018



origin of the problem: a forced AUL



it took the
piquet about
1h to understand
the origin of the
power cut



original situation:
a metal piece leaning
against the AUL

21:10 – 22:10

Tuesday 6.11.2018



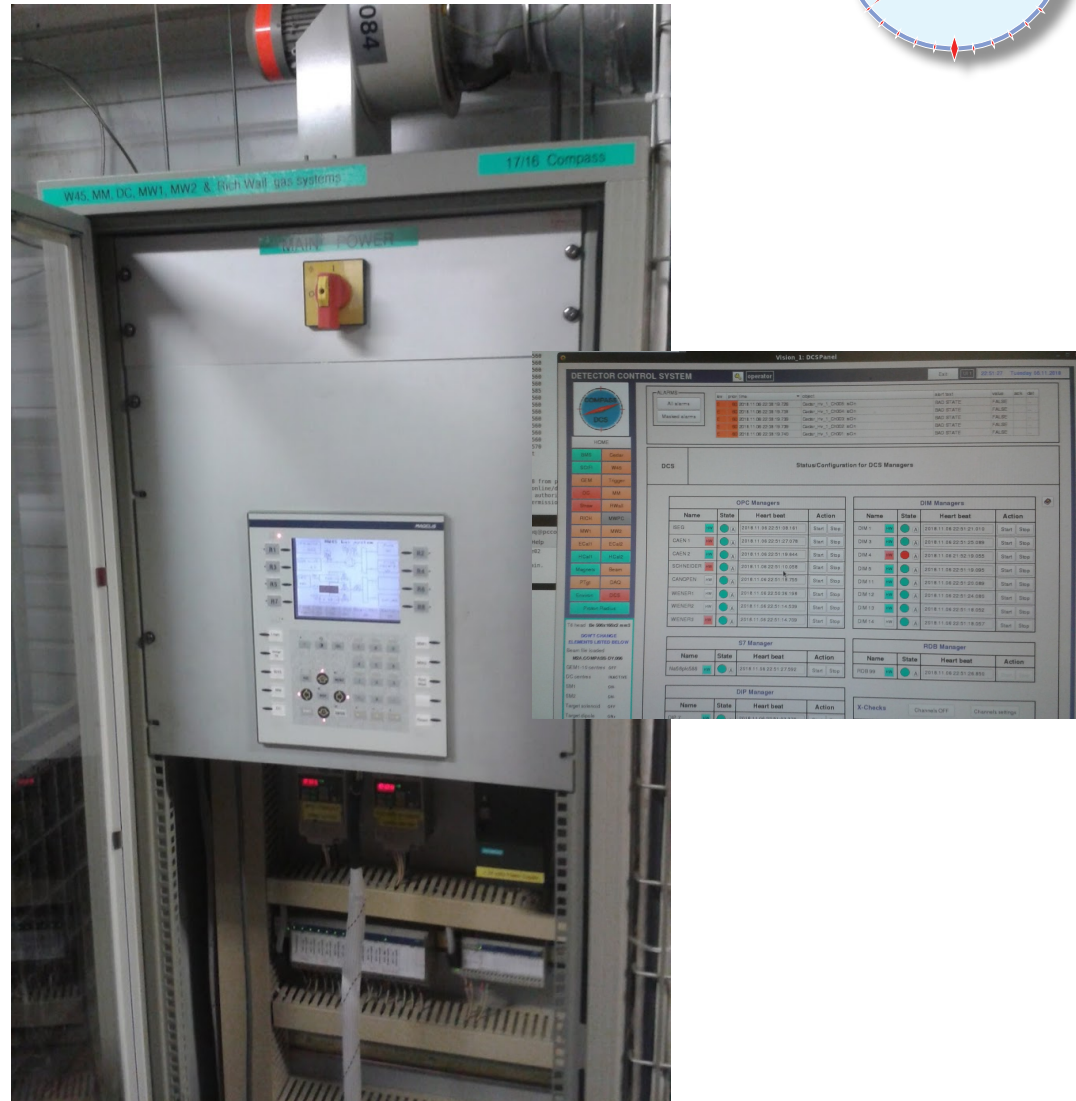
affected equipment:

PLC3 gas supply for
W45, MM, DC, MW1,
MW2, RICHWALL

STRAW cooling water
circuit: automatic refilling
and interlock PLC dead
(24V?)

BMS LV now off (?),
CEDAR HV crate plugged
to another socket

in parallel:
no beam 23:00-3:30



Wednesday 7.11.2018



no beam 23:00-3:30

3:00 decision to start target polarity inversion

6:00 alignment data with magnet on/off

8:00 machine development

14:00 COMPASS
high-resolution picture



Thursday 8.11.2018



polarization ongoing, trigger studies

05:30 – 9:00 no beam

07:30 Target: He3 pump failure – restart polarisation

14:30 DAQ crash

15:15 Access for GEM LV crate DCS communication problem

16:00 – 19:30 MWPC new readout tests

19:45 – alignment

no good DY spills

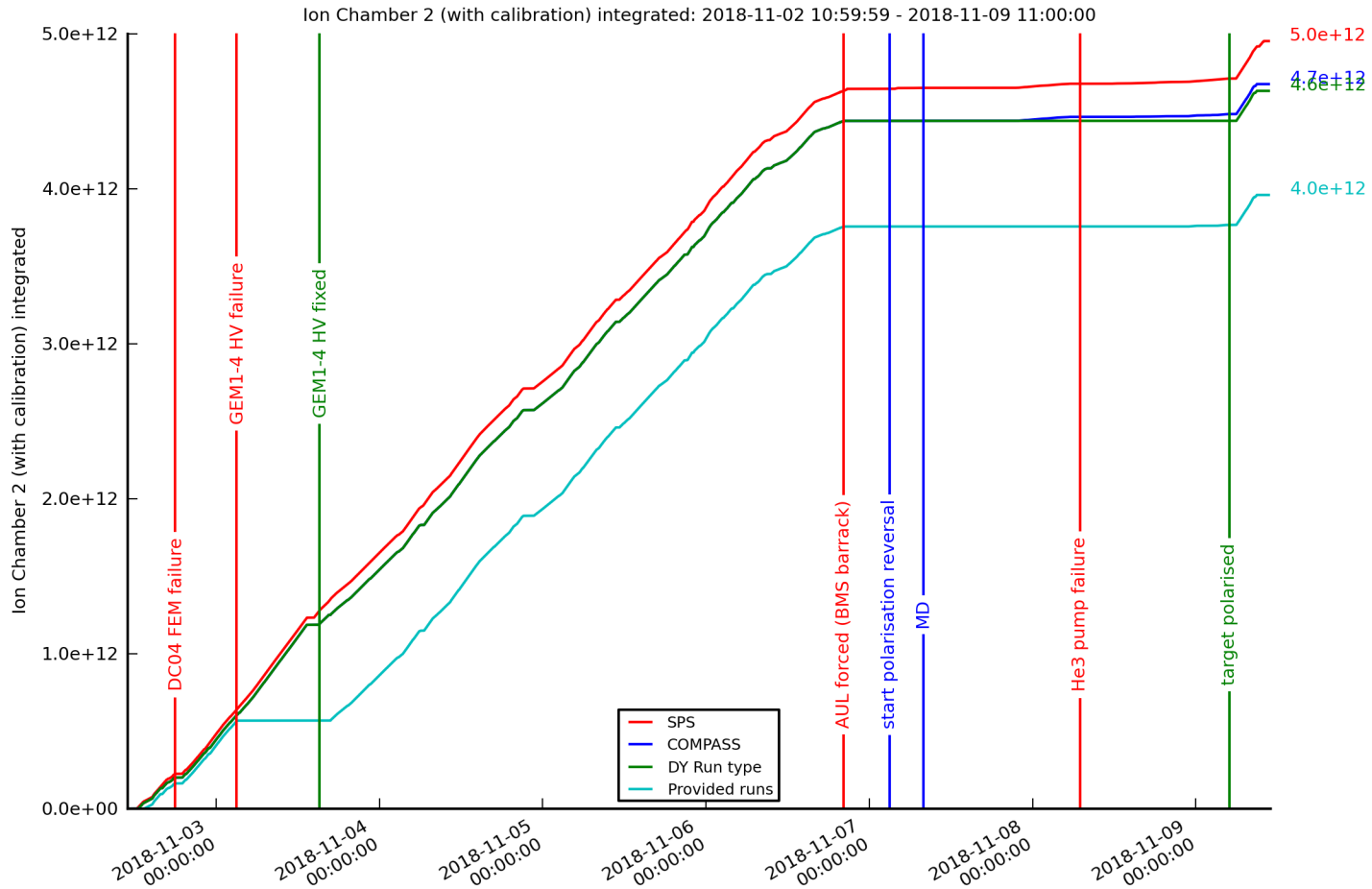
Friday 9.11.2018



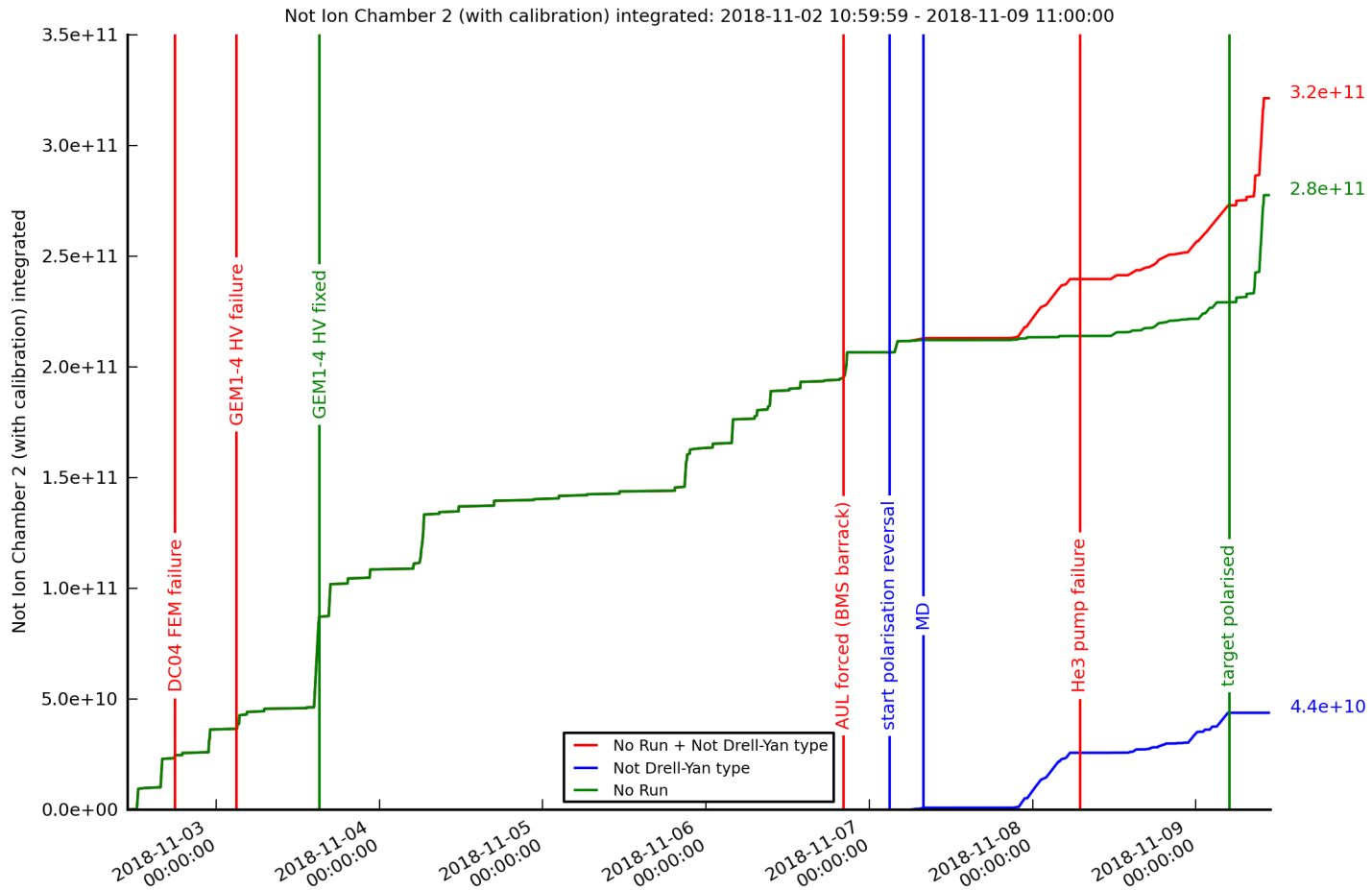
05:00 polarisation reached: +72%, -64.6%

05:00 back to DY data taking

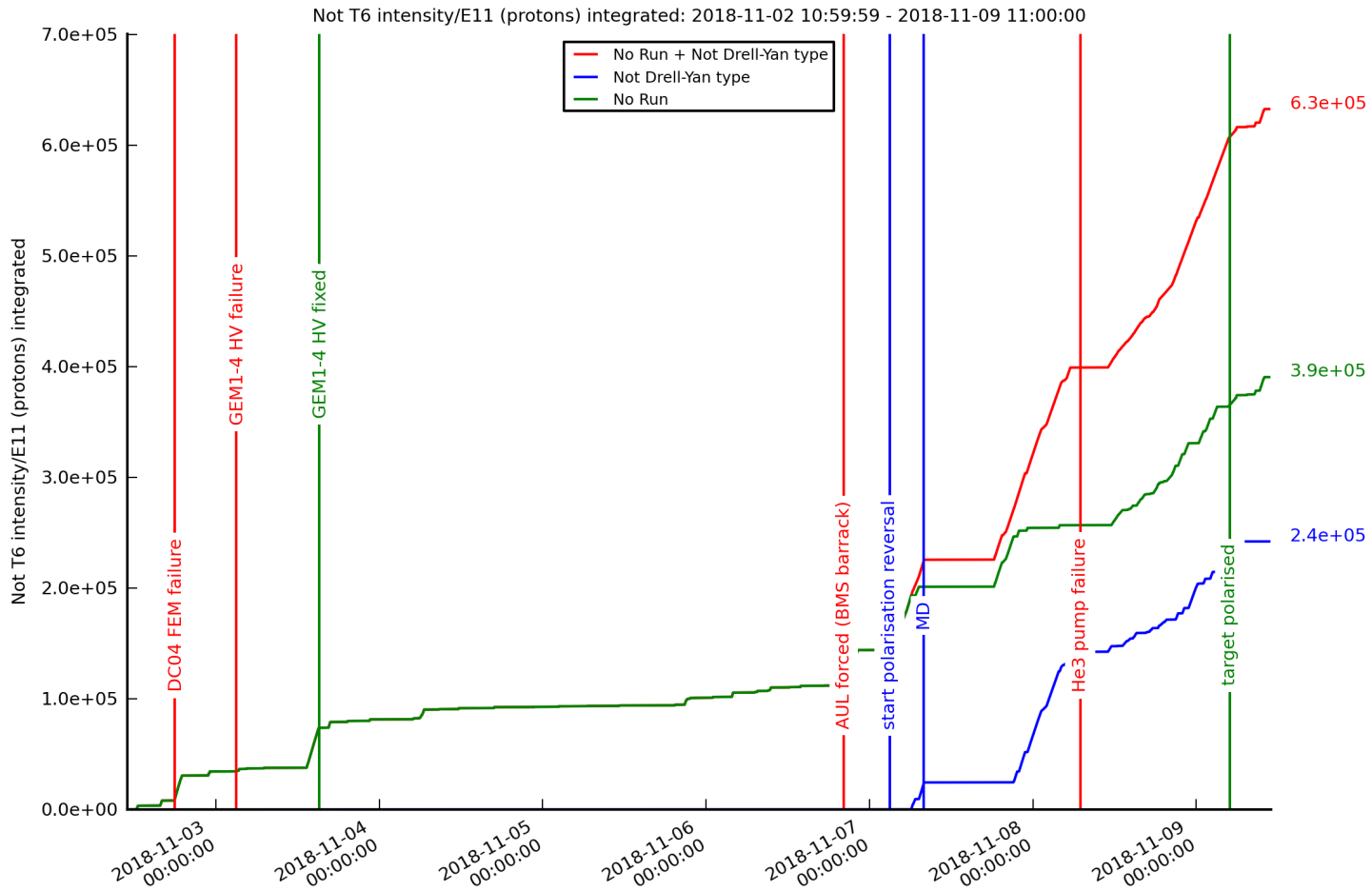
Summary Week 45



Summary Week 45



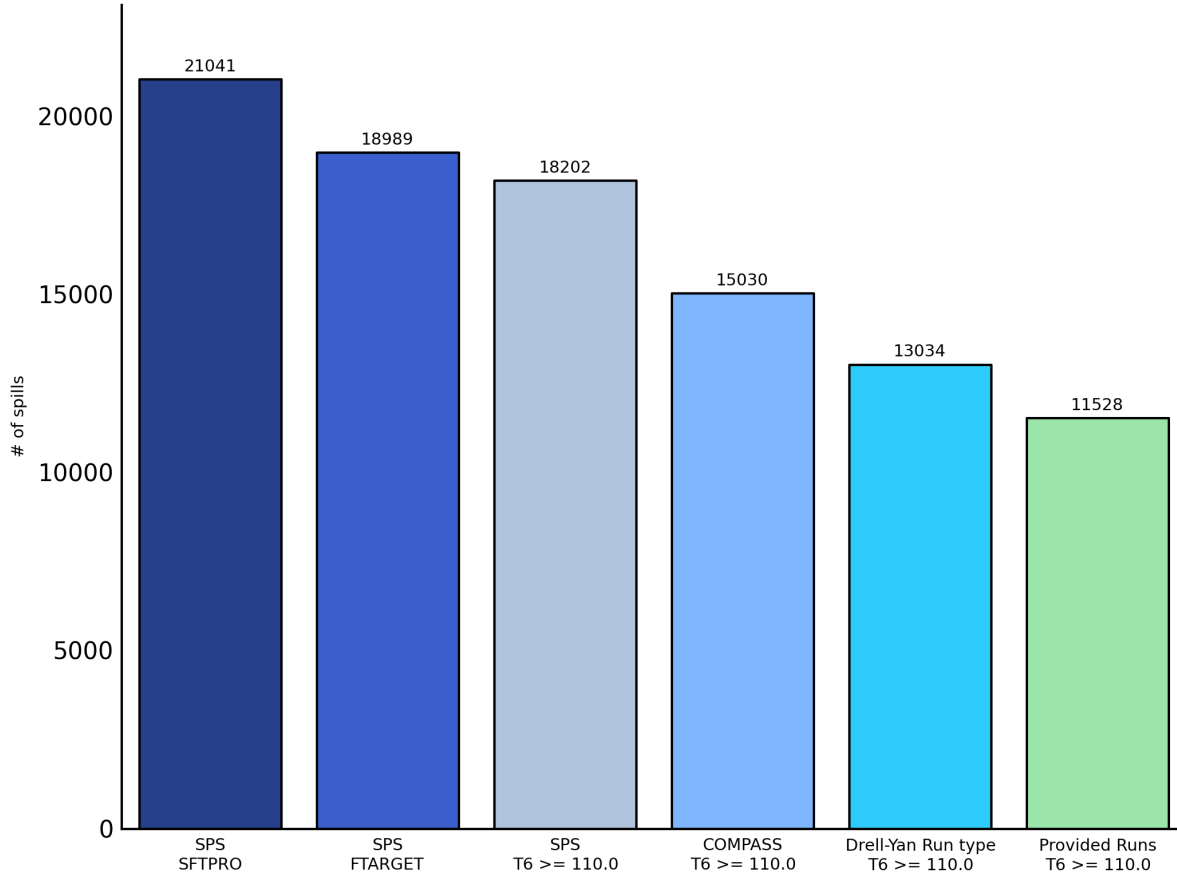
Summary Week 45



Summary Week 45



Period: 2018-11-02 10:59:59 - 2018-11-09 11:00:00



ratios:

FTGT/PRO=90%

T6/FTGT=96%

SPS eff=86.4%

COMPASS/SPS=83%

DY/SPS=72%

HV-DY/SPS=63%

Summary Week 45



Many thanks to all
who pushed for a
successful running this week

let's go for 3 more days!
Good luck to Genki