## Stave production monitoring

Ivan Ravasenga, Bogolyubov Institute for Theo. Phys.

04/09/2019

Monitoring from January 2018 to 04/09/2019

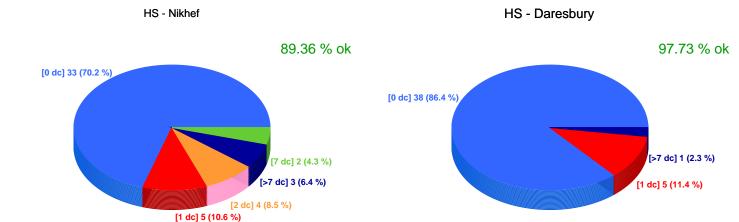
Stave meeting

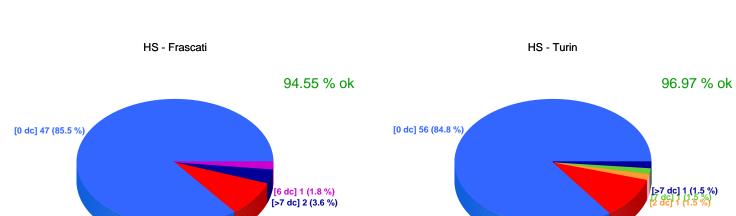
# HS monitoring

**HSs of previous week** 

B-ML-HS-U-067: 0 bad chips B-ML-HS-L-067: 0 bad chips

**HSs of this week** 

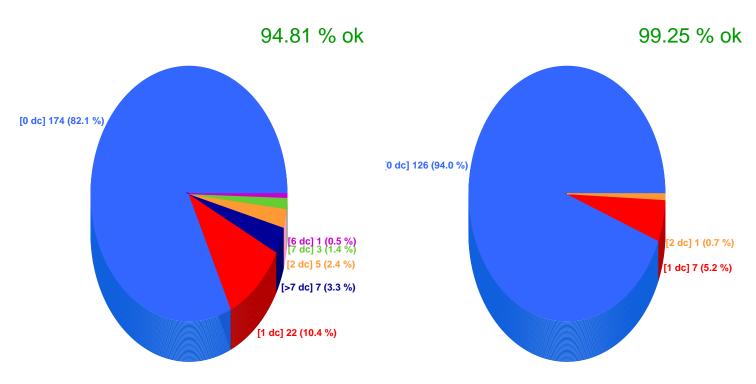


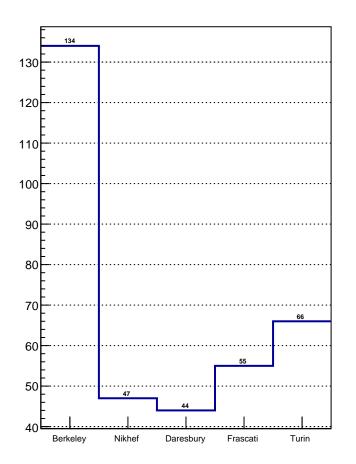


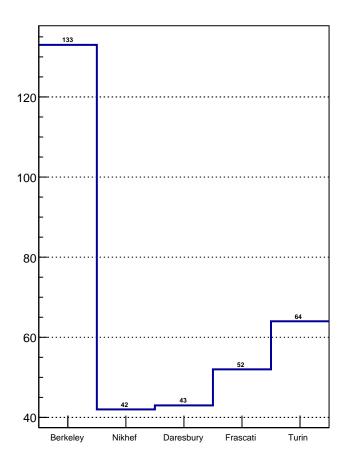
[1 dc] 7 (10.6 %)

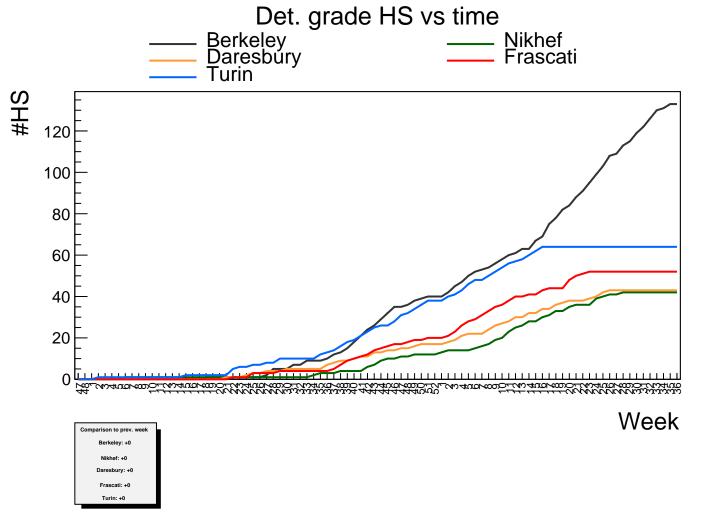
[1 dc] 5 (9.1 %)

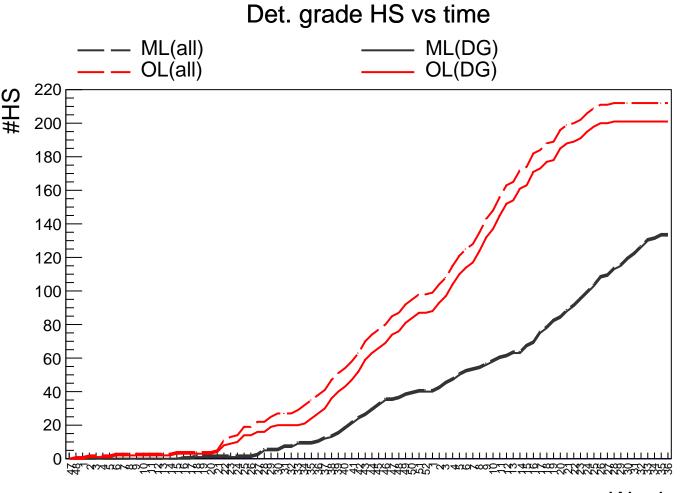
HS - OL HS - ML

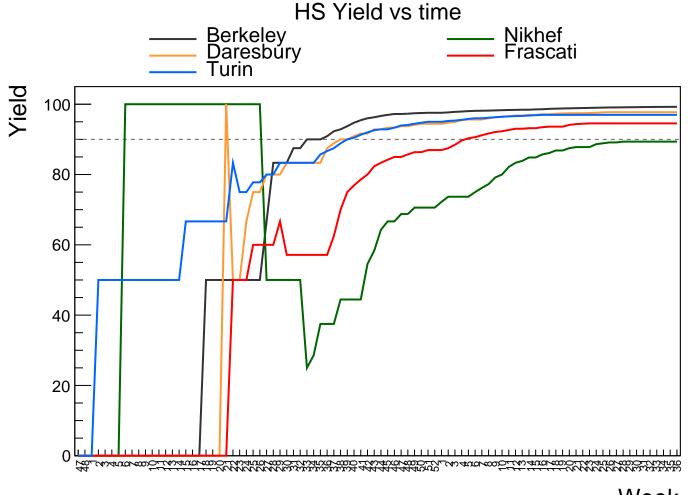




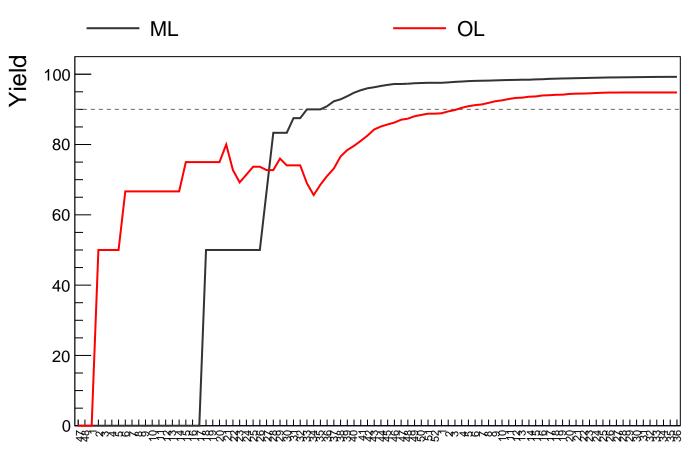








### HS Yield vs time



Stave monitoring

## Staves of previous week

B-ML-Stave-063: (U,L)=(0, 0) bad chips

Staves of this week

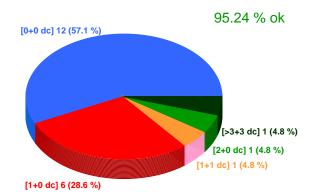
B-ML-Stave-060: (U,L)=(0, 0) bad chips

[0+0 dc] 10 (52.6 %) [>3+3 dc] 2 (10.5 %)

[1+0 dc] 3 (15.8 %)

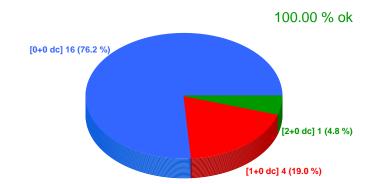
Stave - Nikhef

Stave - Daresbury

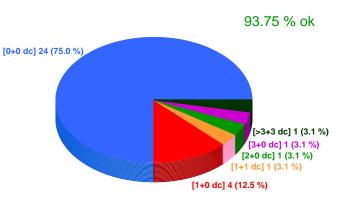


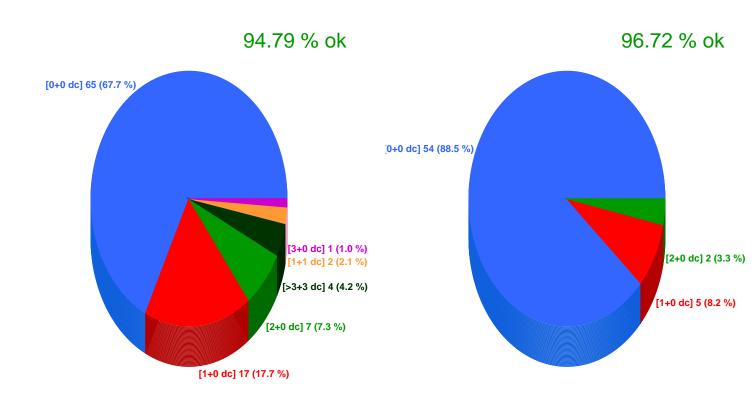
Stave - Frascati

[2+0 dc] 4 (21.1 %)

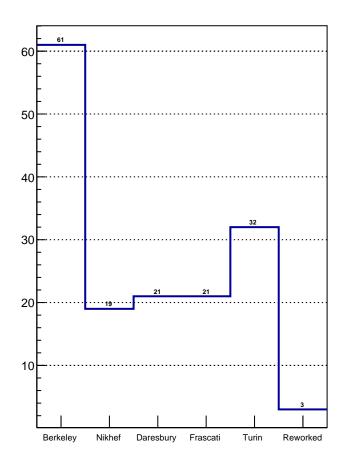


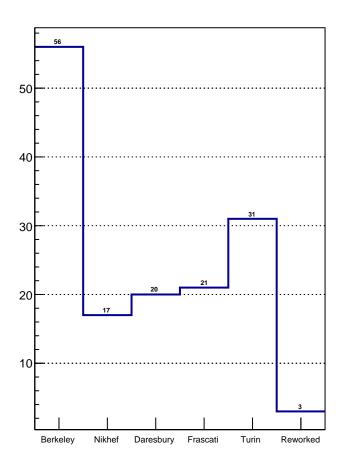
Stave - Turin





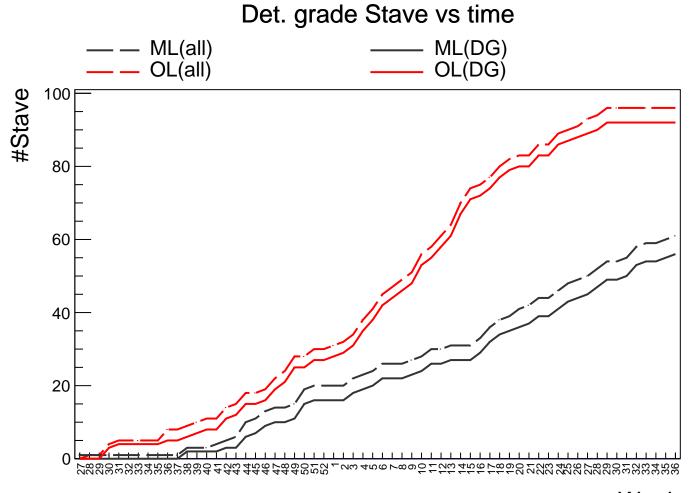
Det. Grade Stave

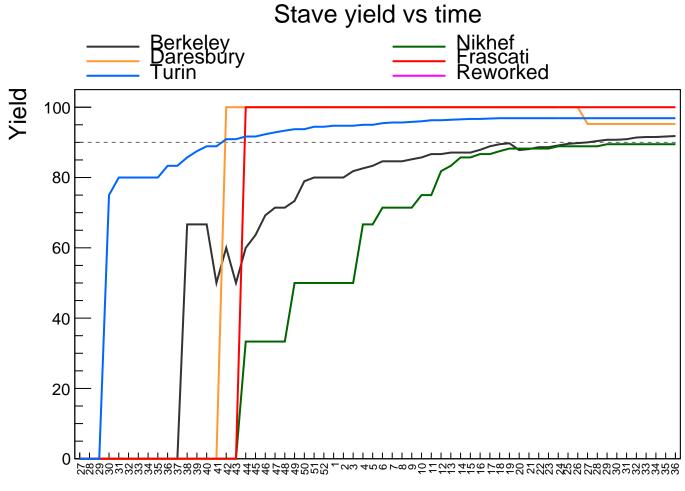




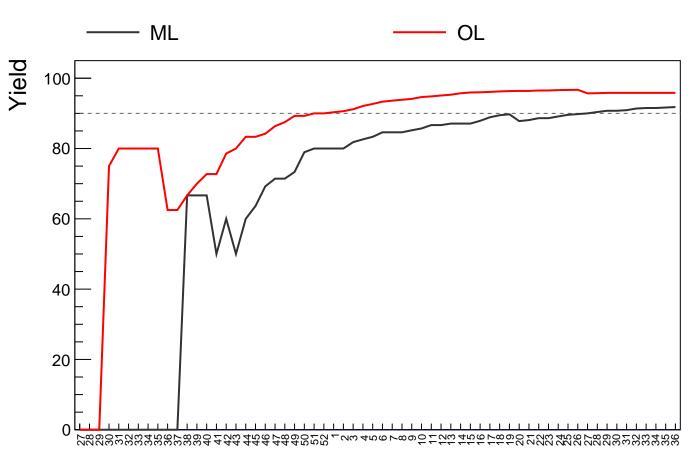
Det. grade Stave vs time Berkeley Daresbury Turin Nikhef Frascati Reworked #Stave 60 50 40 30 20 10 Λαγανωνωνωνων 4 4 4 4 4 4 4 4 4 4 4 αυτά Γερου-1004 αυθου-200 4 α Week Comparison to prev. weel Berkeley: +1 Nikhef: +0 Daresbury: +0 Frascati: +0 Turin: +0

Reworked: +0

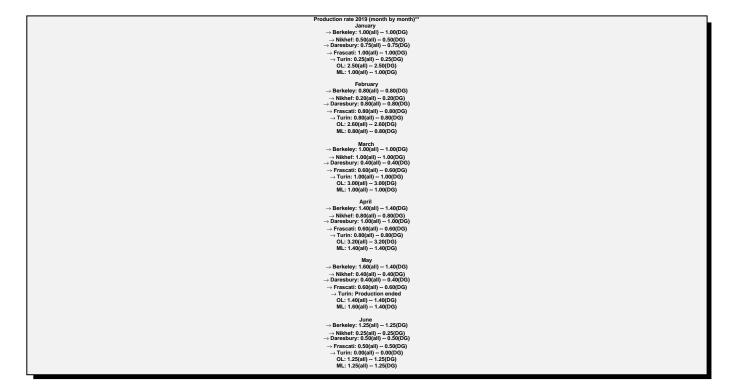




### Stave yield vs time



```
Production rate (October 2018 - prev. week)**
           → Berkeley: 1.24(all) -- 1.15(DG)
             → Nikhef: 0.37(all) -- 0.37(DG)
          \rightarrow Daresbury: 0.46(all) -- 0.43(DG)
            → Frascati: 0.46(all) -- 0.46(DG)
     \rightarrow Turin: 0.79(all) -- 0.79(DG) \rightarrow Prod. ended
                 OL: 2.08(all) -- 2.05(DG)
                 ML: 1.24(all) -- 1.15(DG)
Rework rate (from June 1st, 2019): 0.21(all) -- 0.21(DG)
        **Christmas holiday excluded (2 weeks)
```

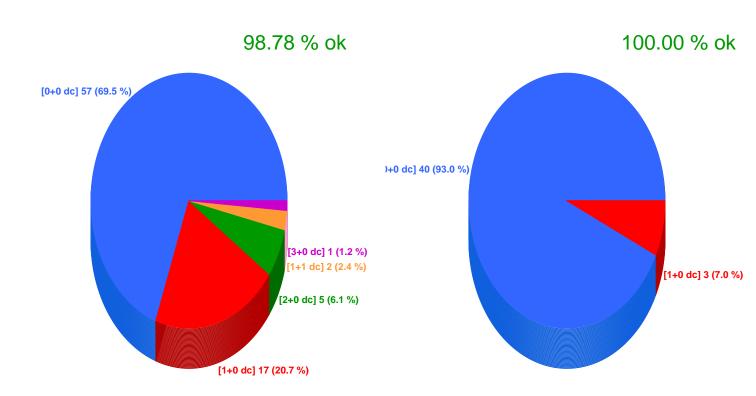


Stave reception @CERN

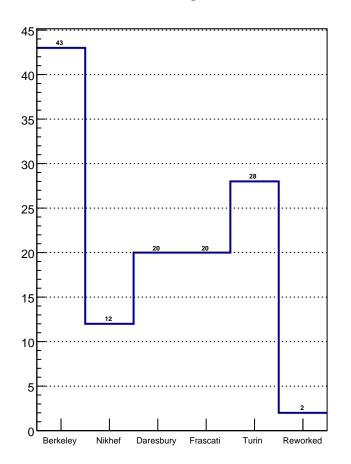
Staves qualified in the previous week

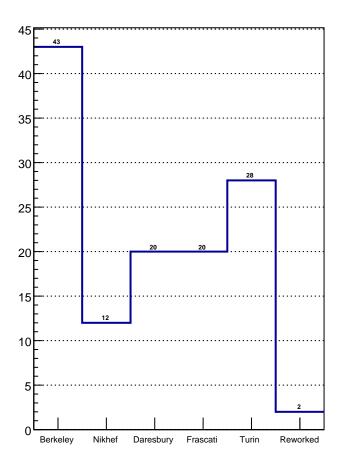
B-ML-Stave-051: (U,L)=(0, 0) bad chips B-ML-Stave-050: (U,L)=(0, 0) bad chips B-ML-Stave-049: (U,L)=(0, 0) bad chips

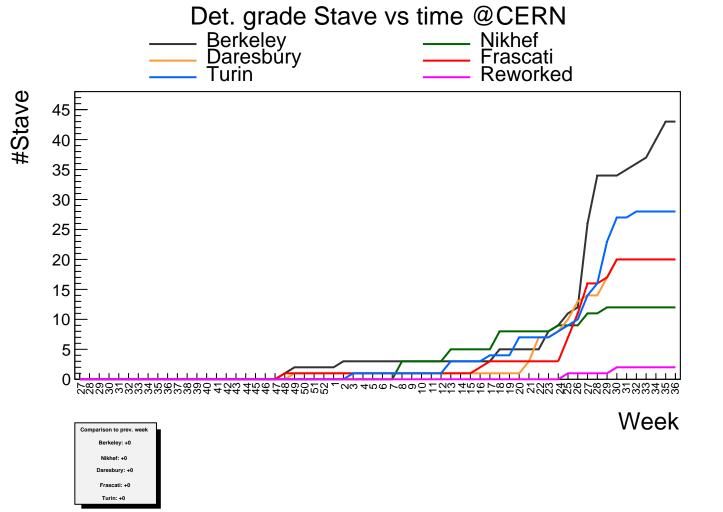
Staves qualified this week



Det. Grade Stave @CERN







## Det. grade Stave vs time @CERN ML(all) ML(DG) OL(DG) OL(all) #Stave 80 70 60 50 40 30 20 10

Qualification rate (December 2018 - prev. week)\*\*

Berkeley: 1.14(all) -- 1.14(DG)

Nikhef: 0.32(all) -- 0.32(DG)

Daresbury: 0.54(all) -- 0.54(DG)

Frascati: 0.51(all) -- 0.51(DG) Turin: 0.76(all) -- 0.76(DG)

> OL: 2.14(all) -- 2.14(DG) ML: 1.14(all) -- 1.14(DG)

\*\*Christmas holiday excluded (2 weeks)

HS without a Stave

HSs (DG) not yet tested as Stave A-OL-HS-U-009: 2 bad chips F-OL-HS-U-027: 0 bad chips F-OL-HS-U-026: 0 bad chips F-OL-HS-U-025: 0 bad chips F-OL-HS-U-024: 0 bad chips F-OL-HS-L-027: 0 bad chips F-OL-HS-L-026: 0 bad chips F-OL-HS-L-025: 0 bad chips F-OL-HS-L-024: 0 bad chips A-OL-HS-U-023: 0 bad chips A-OL-HS-U-022: 0 bad chips A-OL-HS-U-021: 0 bad chips A-OL-HS-L-122: 0 bad chips A-OL-HS-L-024: 0 bad chips A-OL-HS-L-023: 0 bad chips B-ML-HS-U-067: 0 bad chips B-ML-HS-U-066: 0 bad chips B-ML-HS-U-065: 0 bad chips B-ML-HS-U-064: 0 bad chips B-ML-HS-U-062: 0 bad chips B-ML-HS-U-061: 0 bad chips B-ML-HS-L-067: 0 bad chips B-ML-HS-L-066: 0 bad chips B-ML-HS-L-065: 0 bad chips B-ML-HS-L-064: 0 bad chips B-ML-HS-L-062: 0 bad chips B-ML-HS-L-061: 0 bad chips

HSs (non-DG) not yet tested as Stave

A-OL-HS-L-004: 14 bad chips -> rework(?)

ps
ps
F-OL-HS-U-002: 8 bad chips -> rework(?)

### Stave not DG

### Staves not DG - reworkable

A-OL-Stave-001: (U,L) = (2, 14) bad chips A-OL-Stave-002: (U,L) = (7, 49) bad chips T-OL-Stave-003: (U,L) = (6, 2) bad chips

D-OL-Stave-001: (U,L) = (7, 13) bad chips

Staves not DG - not reworkable

B-ML-Stave-039: (U,L) = (0, 2) bad chips B-ML-Stave-001: (U,L) = (2, 0) bad chips