

# Stave production monitoring

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06/09/2019

Monitoring from January 2018 to 06/09/2019

Stave meeting

HS monitoring

## **HSs of previous week**

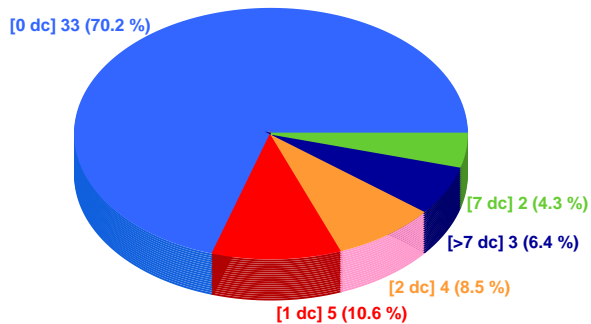
**B-ML-HS-U-067: 0 bad chips**

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

## **HSs of this week**

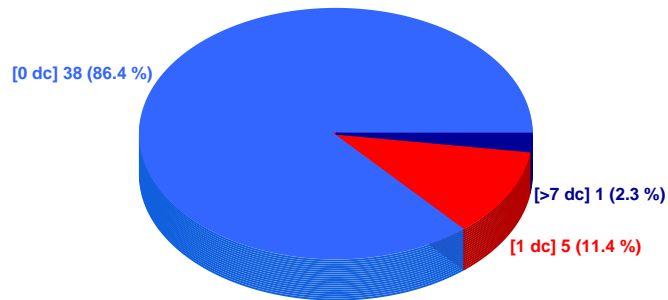
HS - Nikhef

89.36 % ok



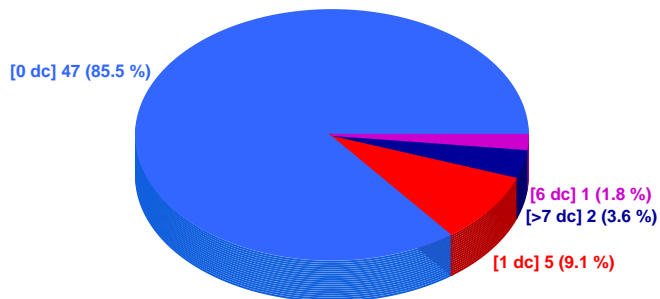
HS - Daresbury

97.73 % ok



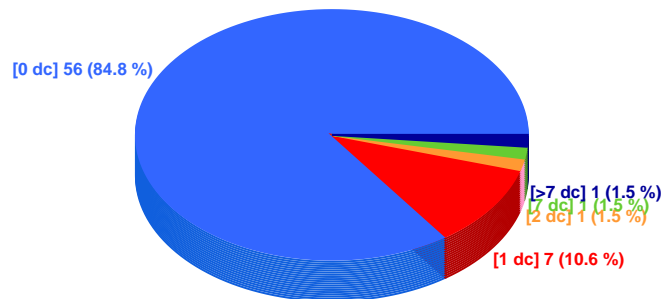
HS - Frascati

94.55 % ok



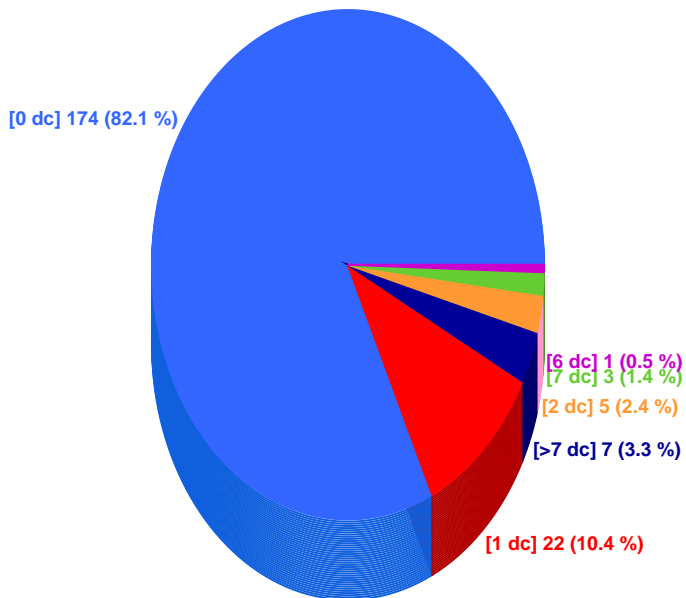
HS - Turin

96.97 % ok



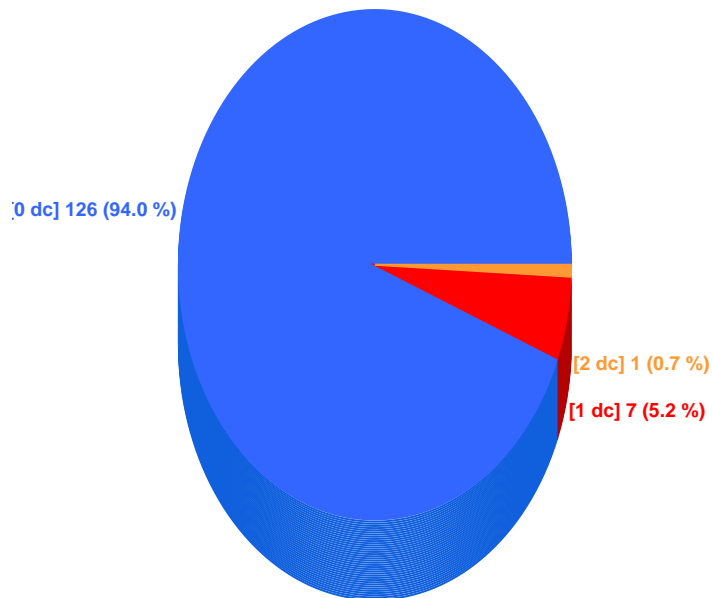
HS - OL

94.81 % ok

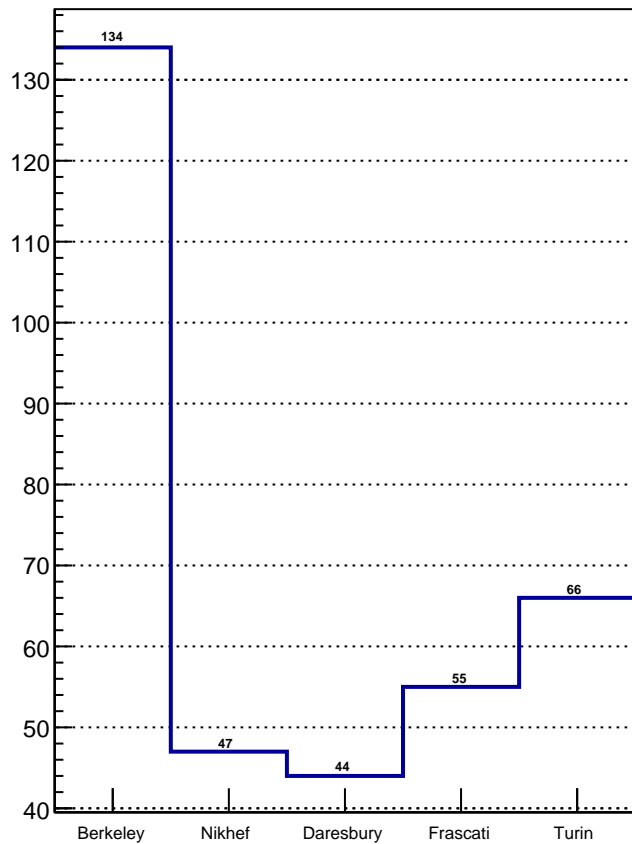


HS - ML

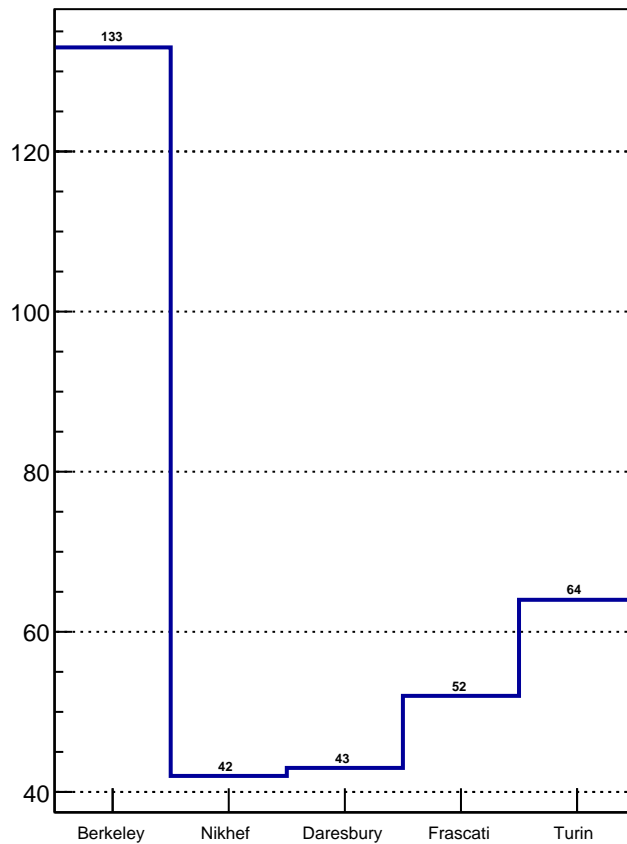
99.25 % ok



# All HS



# Det. Grade HS

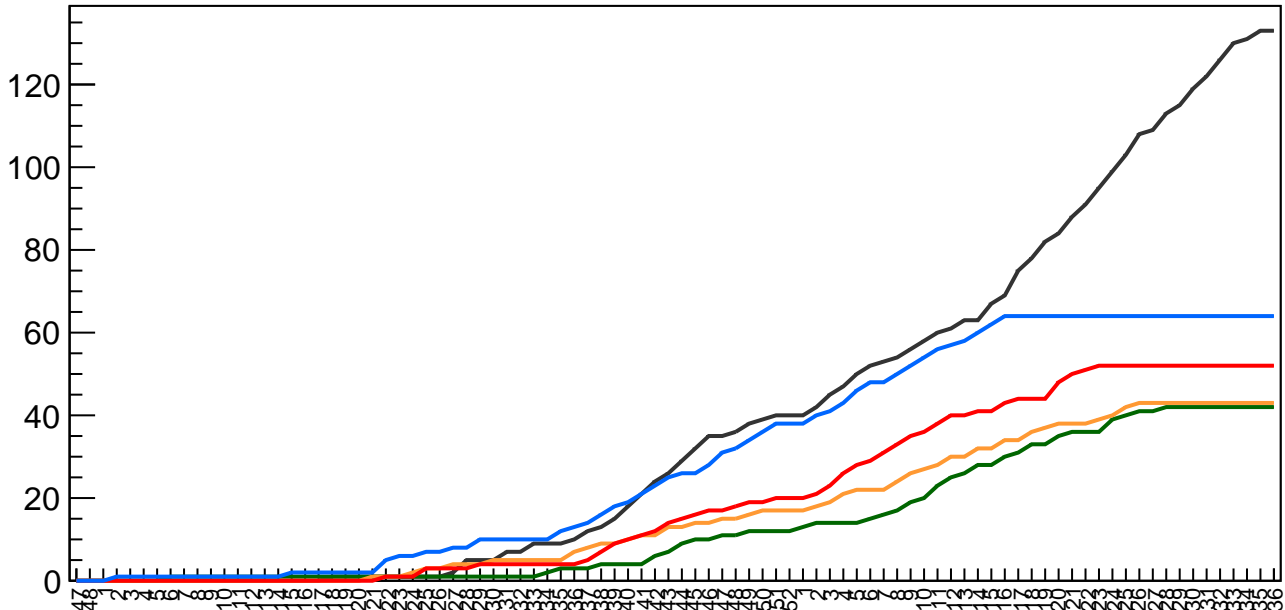


# Det. grade HS vs time

Berkeley  
Daresbury  
Turin

Nikhef  
Frascati

#HS



Week

Comparison to prev. week

Berkeley: +0

Nikhef: +0

Daresbury: +0

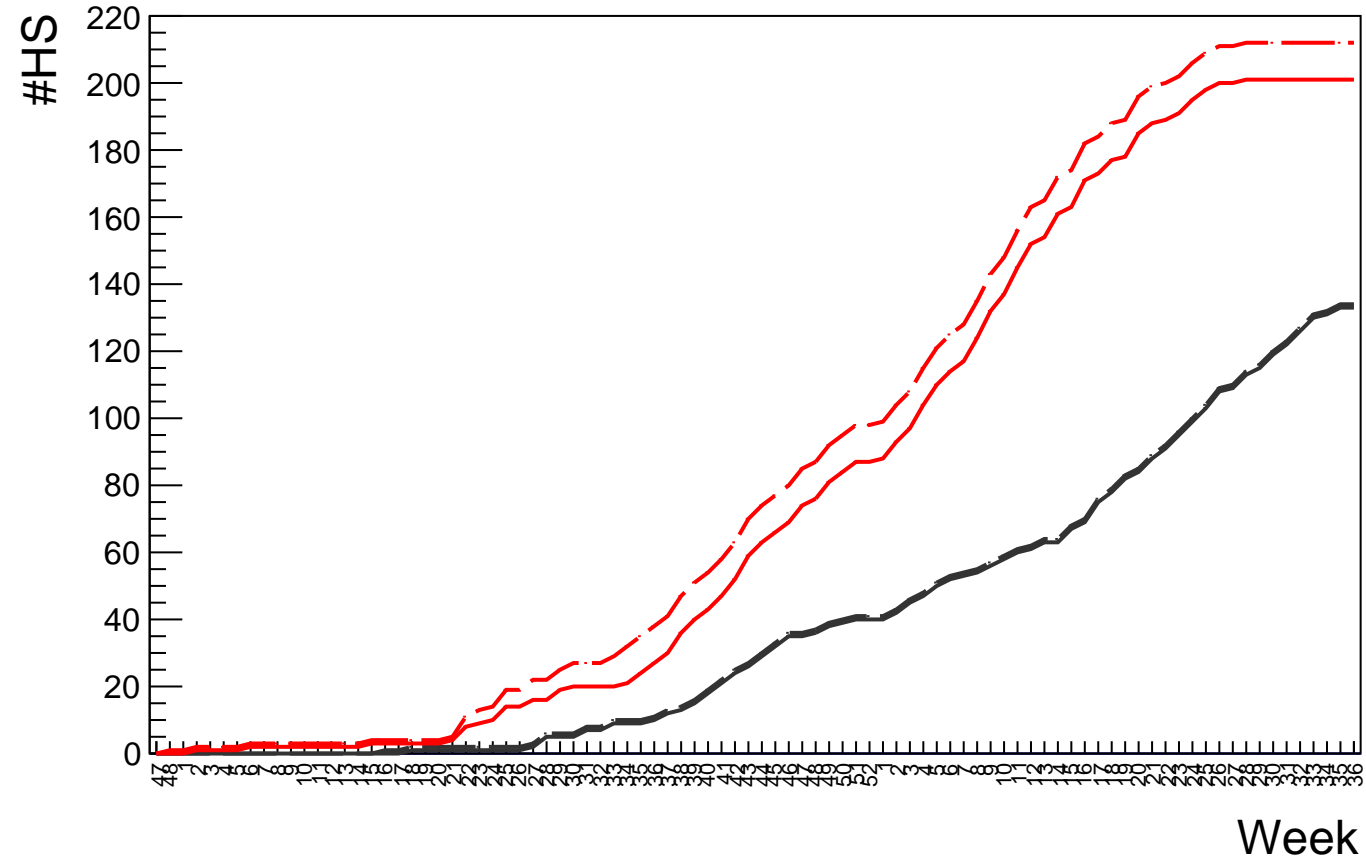
Frascati: +0

Turin: +0

# Det. grade HS vs time

ML(all)  
OL(all)

ML(DG)  
OL(DG)

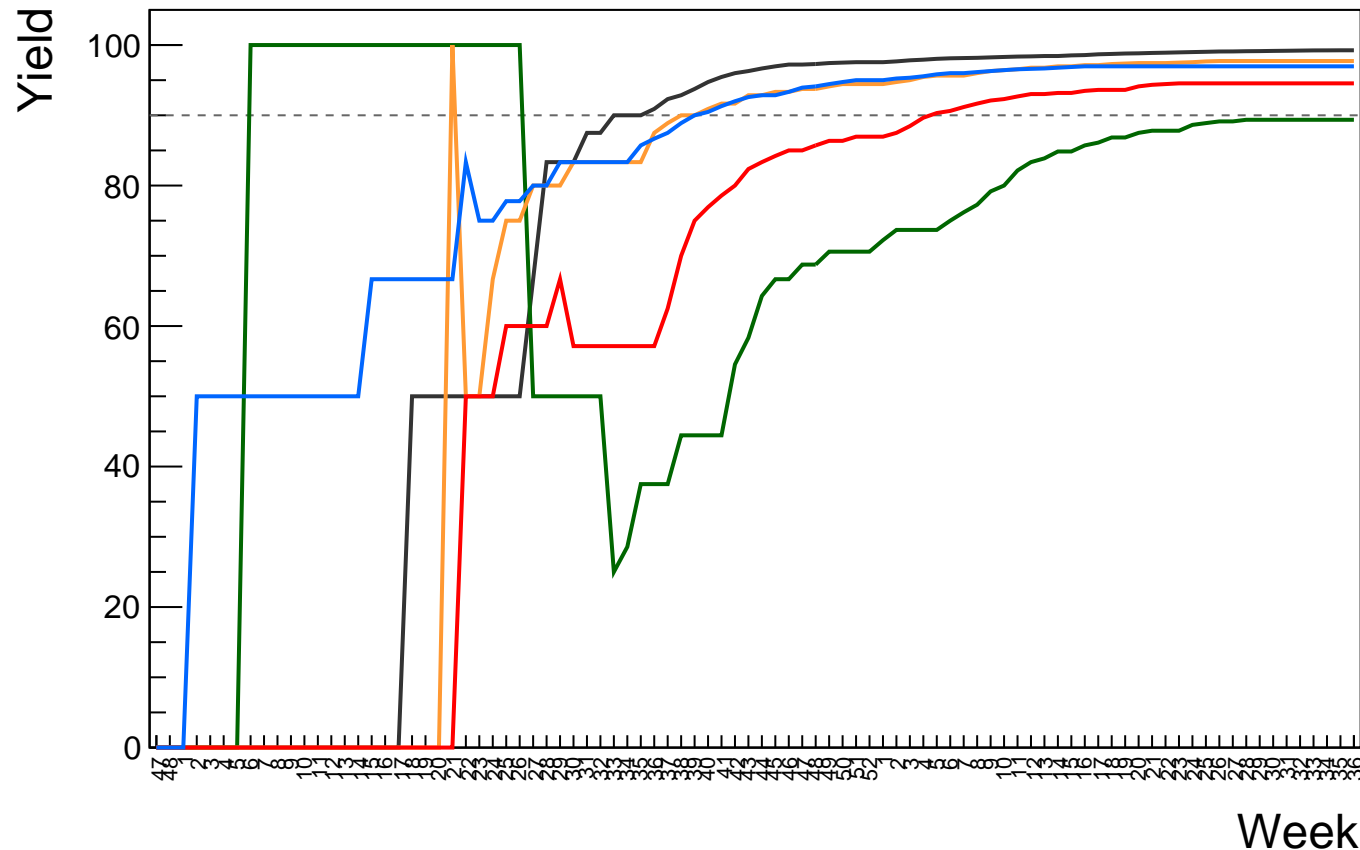




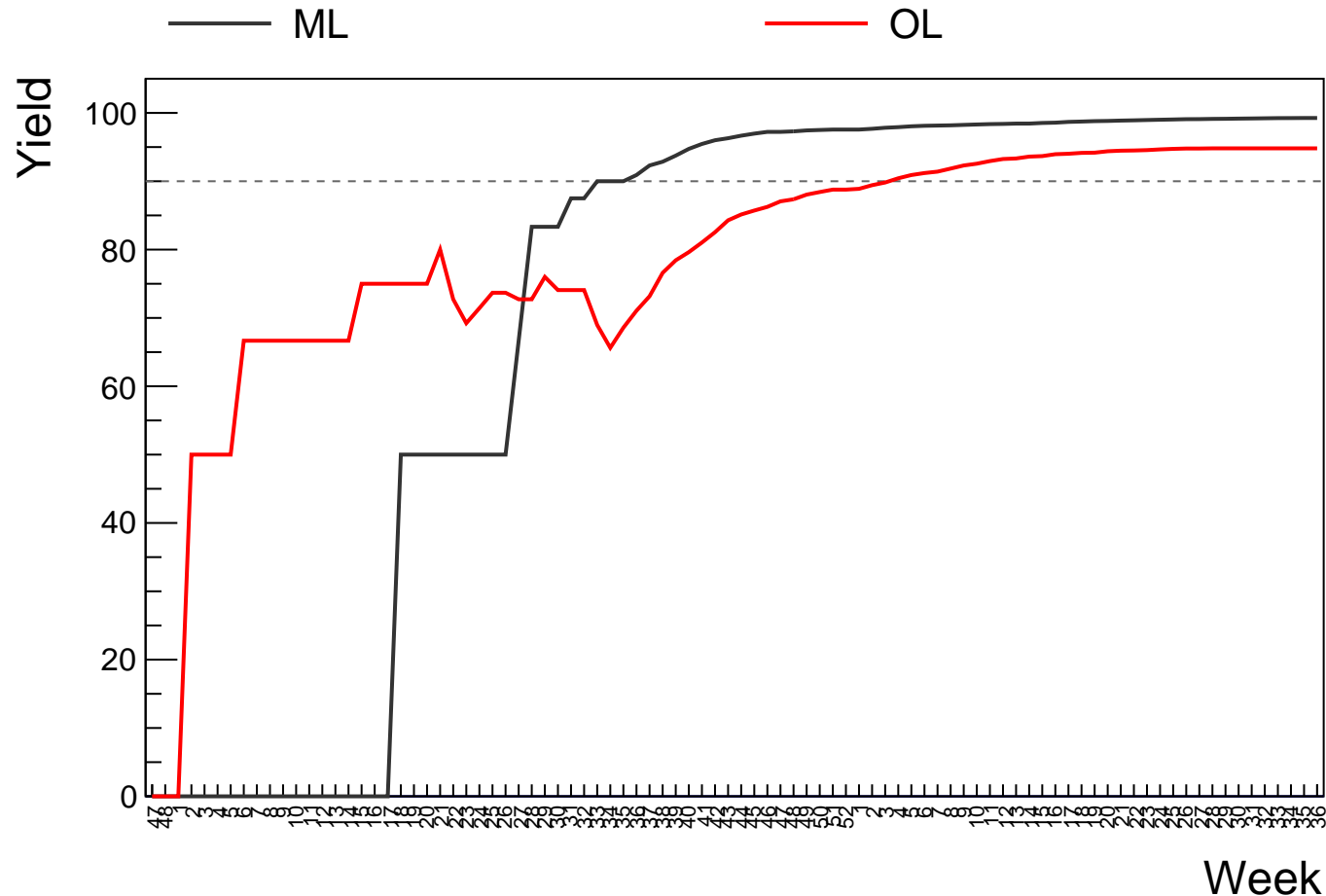
# HS Yield vs time

Berkeley  
 Daresbury  
 Turin

Nikhef  
 Frascati



# HS Yield vs time



Stave monitoring

## **Staves of previous week**

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

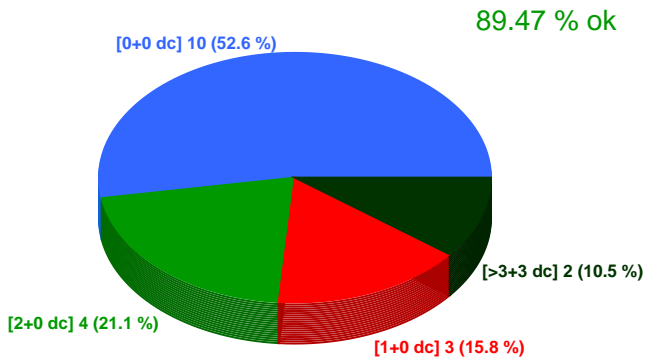
## **Staves of this week**

**B-ML-Stave-061:  $(U,L)=(0, 0)$  bad chips**

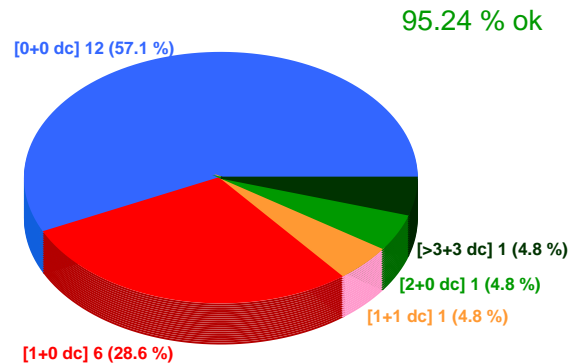
**B-ML-Stave-062:  $(U,L)=(0, 0)$  bad chips**

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

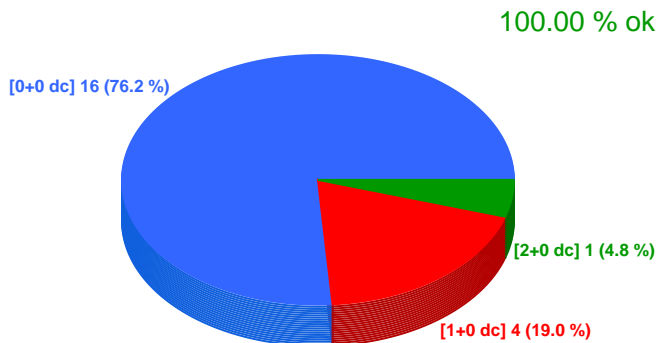
Stave - Nikhef



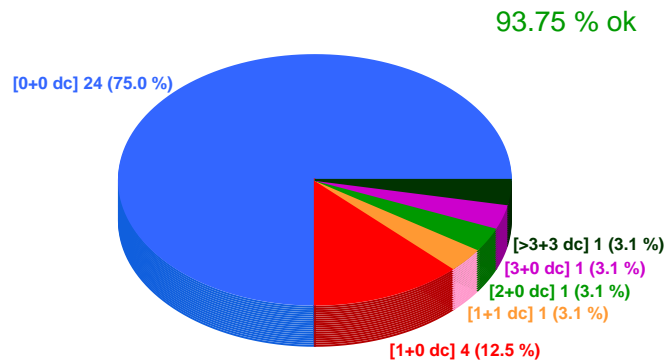
Stave - Daresbury



Stave - Frascati

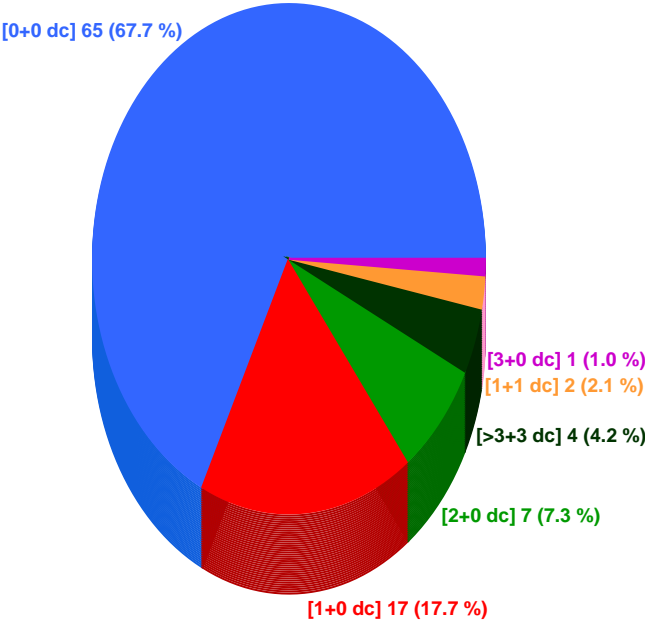


Stave - Turin



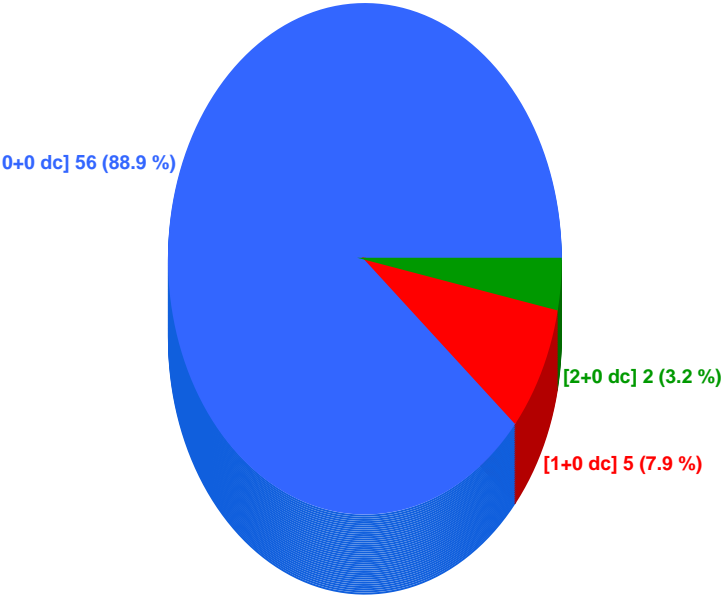
Stave - OL (includes rwk)

94.79 % ok

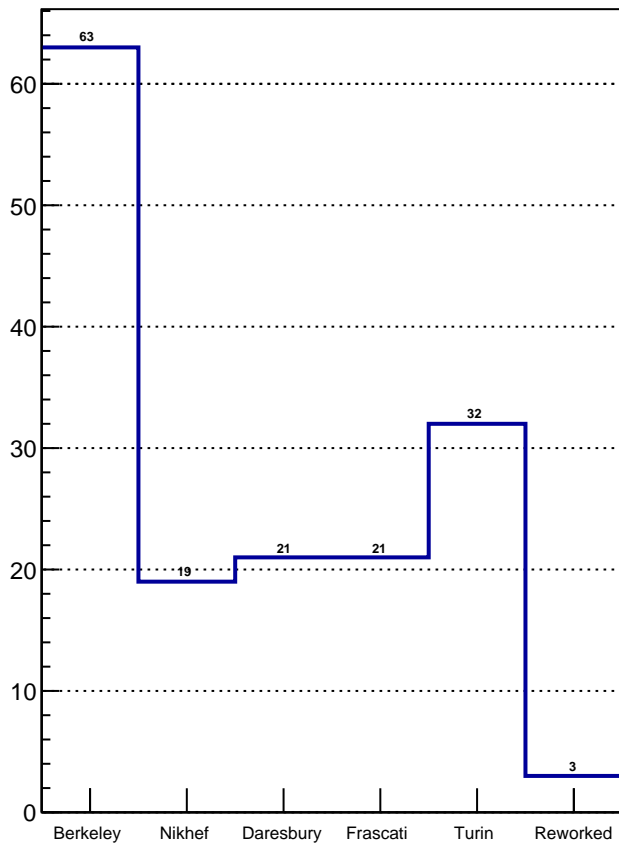


Stave - ML

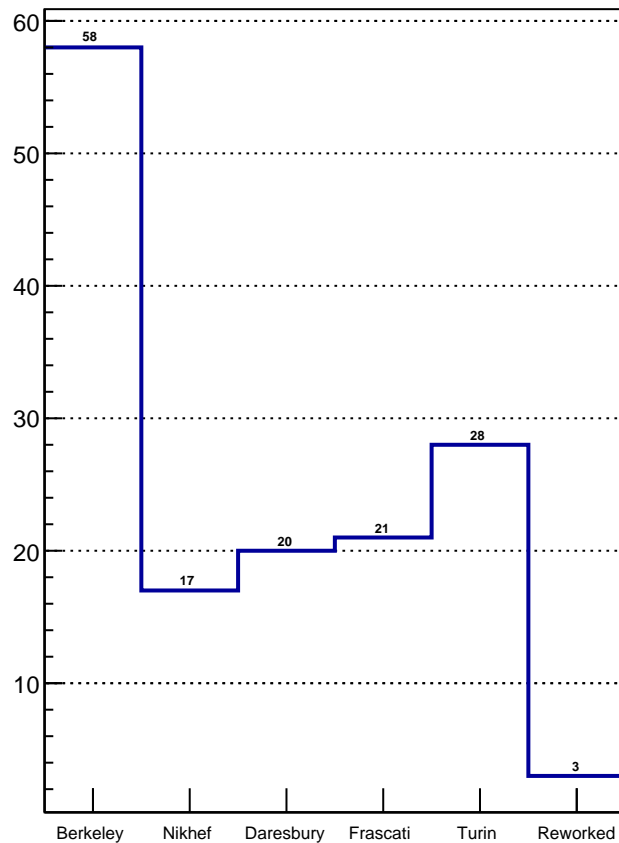
96.83 % ok



All Stave



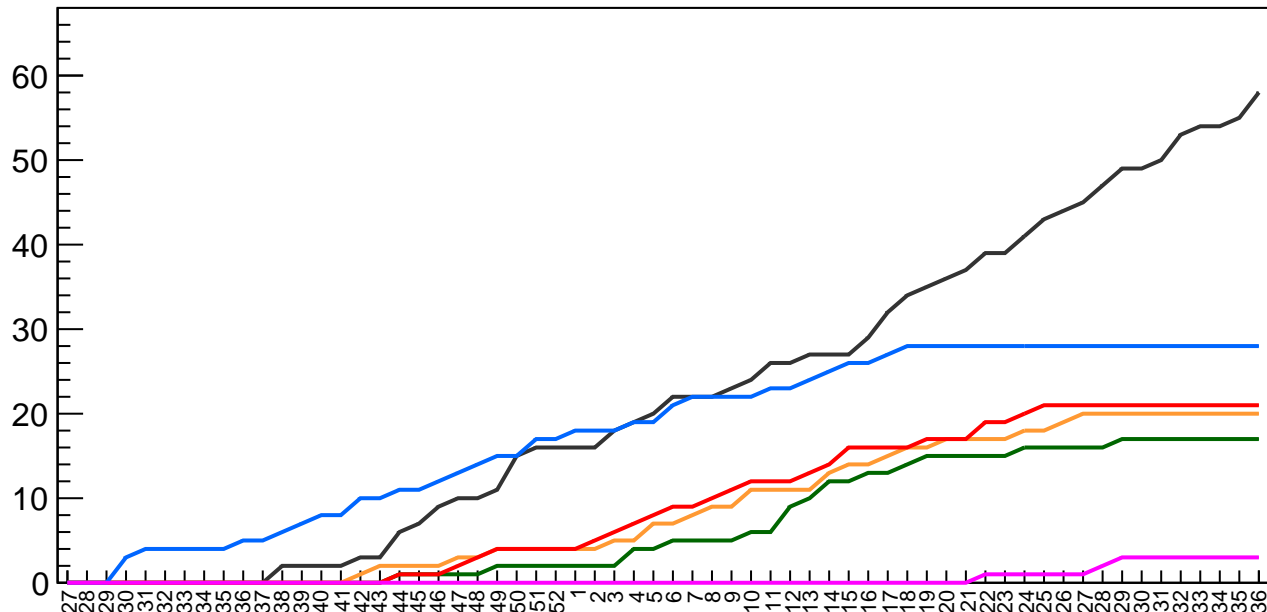
Det. Grade Stave



# Det. grade Stave vs time

— Berkeley  
— Daresbury  
— Turin  
— Nikhef  
— Frascati  
— Reworked

#Stave



Week

Comparison to prev. week

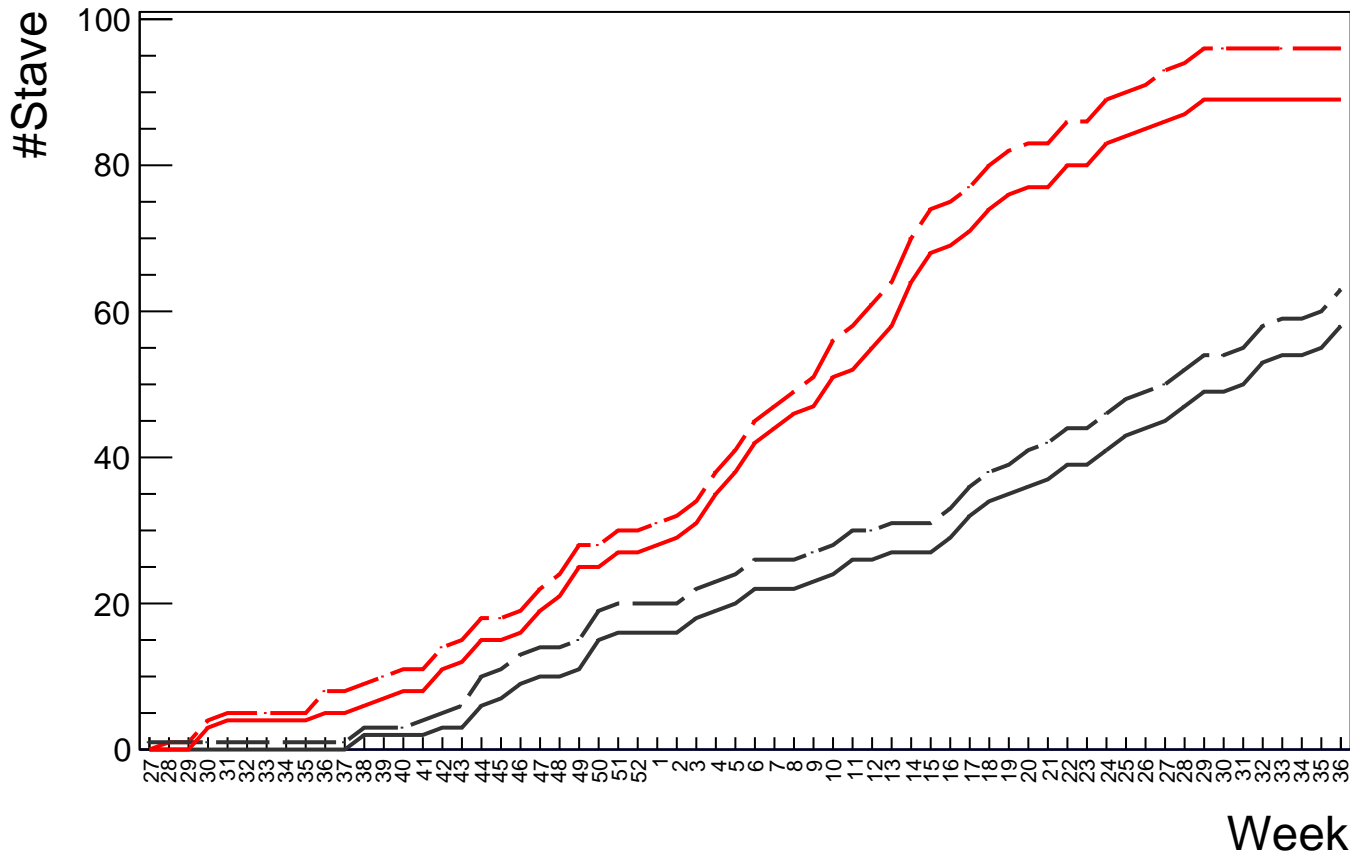
Berkeley: +3  
 Nikhef: +0  
 Daresbury: +0  
 Frascati: +0  
 Turin: +0  
 Reworked: +0



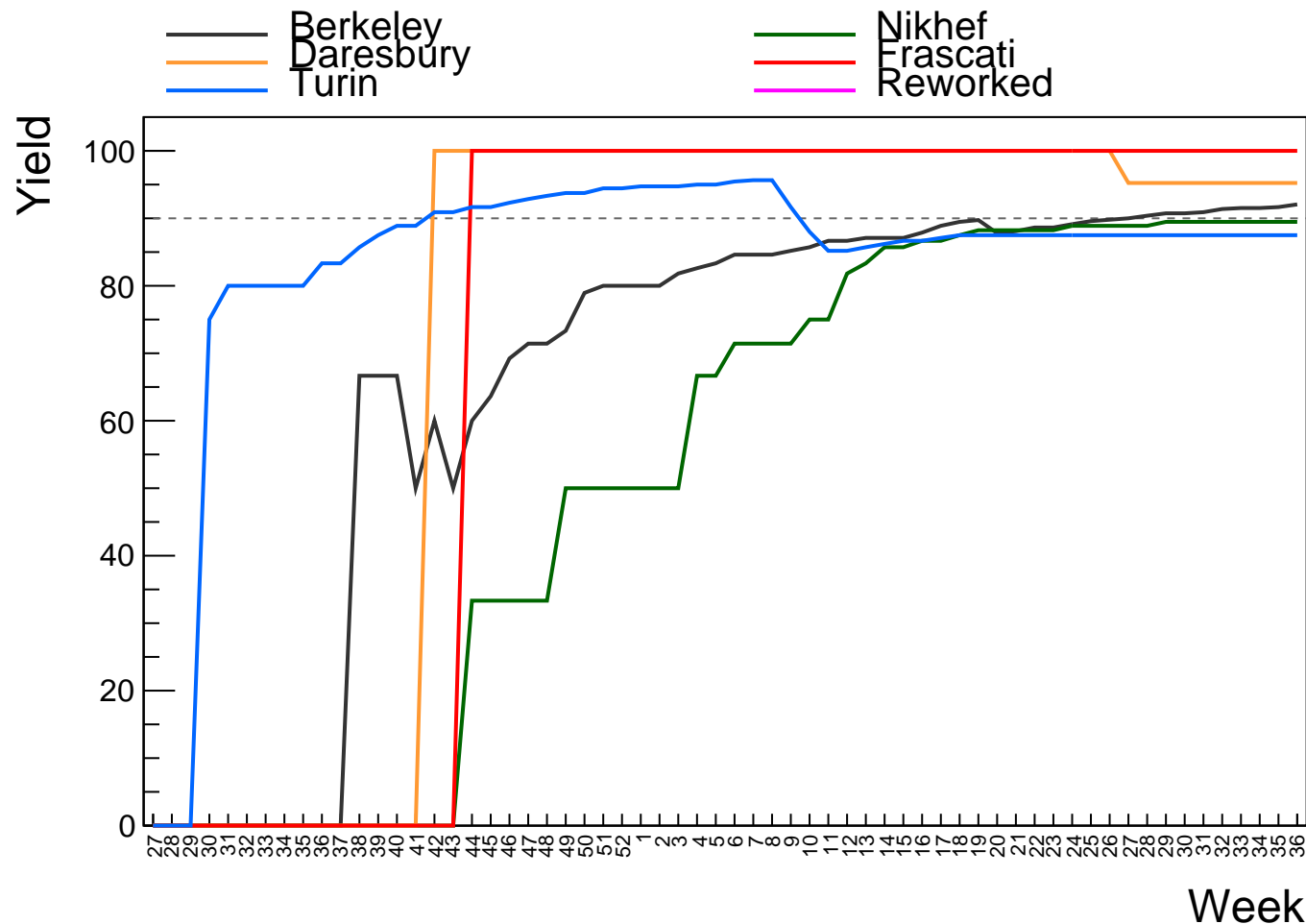
# Det. grade Stave vs time

— ML(all)  
— OL(all)

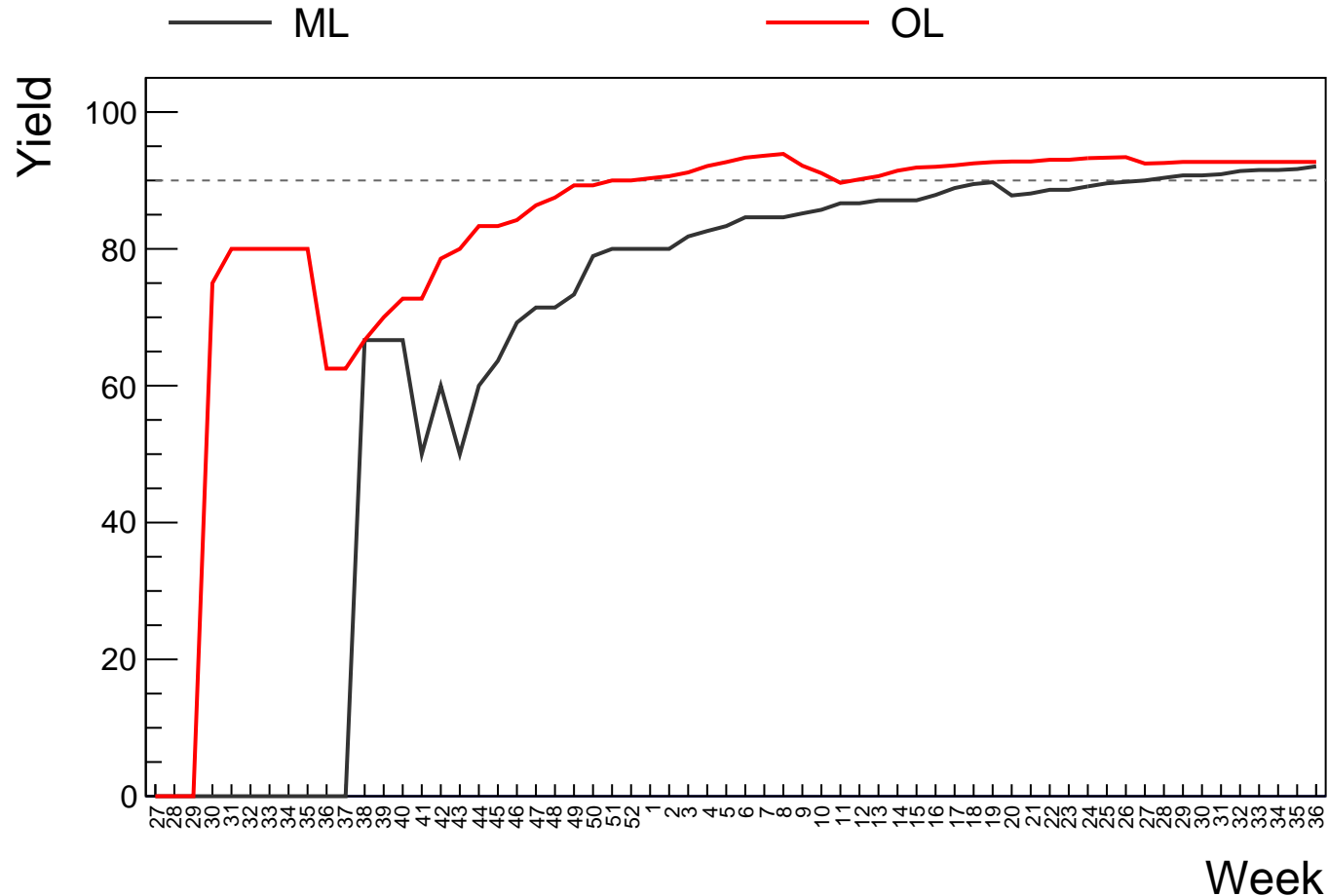
— ML(DG)  
— OL(DG)



# Stave yield vs time



# Stave yield vs time



**Production rate (October 2018 - prev. week)\*\***

- **Berkeley: 1.24(all) -- 1.15(DG)**
- **Nikhef: 0.37(all) -- 0.37(DG)**
- **Daresbury: 0.46(all) -- 0.43(DG)**
- **Frascati: 0.46(all) -- 0.46(DG)**
- **Turin: 0.79(all) -- 0.69(DG) → Prod. ended**

**OL: 2.08(all) -- 1.95(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)**

Production rate 2018 (month by month)\*\*

January
→ Berkeley: 1.00(all) -- 1.00(DG)
→ Nikhef: 0.50(all) -- 0.50(DG)
→ Daresbury: 0.75(all) -- 0.75(DG)
→ Frascati: 1.00(all) -- 1.00(DG)
→ Turin: 0.25(all) -- 0.25(DG)
OL: 2.50(all) -- 2.50(DG)
ML: 1.00(all) -- 1.00(DG)
February
→ Berkeley: 0.80(all) -- 0.80(DG)
→ Nikhef: 0.20(all) -- 0.20(DG)
→ Daresbury: 0.80(all) -- 0.80(DG)
→ Frascati: 0.80(all) -- 0.80(DG)
→ Turin: 0.80(all) -- 0.60(DG)
OL: 2.60(all) -- 2.40(DG)
ML: 0.80(all) -- 0.80(DG)
March
→ Berkeley: 1.00(all) -- 1.00(DG)
→ Nikhef: 1.00(all) -- 1.00(DG)
→ Daresbury: 0.40(all) -- 0.40(DG)
→ Frascati: 0.60(all) -- 0.60(DG)
→ Turin: 1.00(all) -- 0.40(DG)
OL: 3.00(all) -- 2.40(DG)
ML: 1.00(all) -- 1.00(DG)
April
→ Berkeley: 1.40(all) -- 1.40(DG)
→ Nikhef: 0.80(all) -- 0.80(DG)
→ Daresbury: 1.00(all) -- 1.00(DG)
→ Frascati: 0.60(all) -- 0.60(DG)
→ Turin: 0.80(all) -- 0.80(DG)
OL: 3.20(all) -- 3.20(DG)
ML: 1.40(all) -- 1.40(DG)
May
→ Berkeley: 1.60(all) -- 1.40(DG)
→ Nikhef: 0.40(all) -- 0.40(DG)
→ Daresbury: 0.40(all) -- 0.40(DG)
→ Frascati: 0.60(all) -- 0.60(DG)
→ Turin: Production ended
OL: 1.40(all) -- 1.40(DG)
ML: 1.60(all) -- 1.40(DG)
June
→ Berkeley: 1.25(all) -- 1.25(DG)
→ Nikhef: 0.25(all) -- 0.25(DG)
→ Daresbury: 0.50(all) -- 0.50(DG)
→ Frascati: 0.50(all) -- 0.50(DG)
→ Turin: 0.00(all) -- 0.00(DG)
OL: 1.25(all) -- 1.25(DG)
ML: 1.25(all) -- 1.25(DG)

Stave reception @CERN

## **Staves qualified in the previous week**

**B-ML-Stave-051:  $(U,L)=(0, 0)$  bad chips**

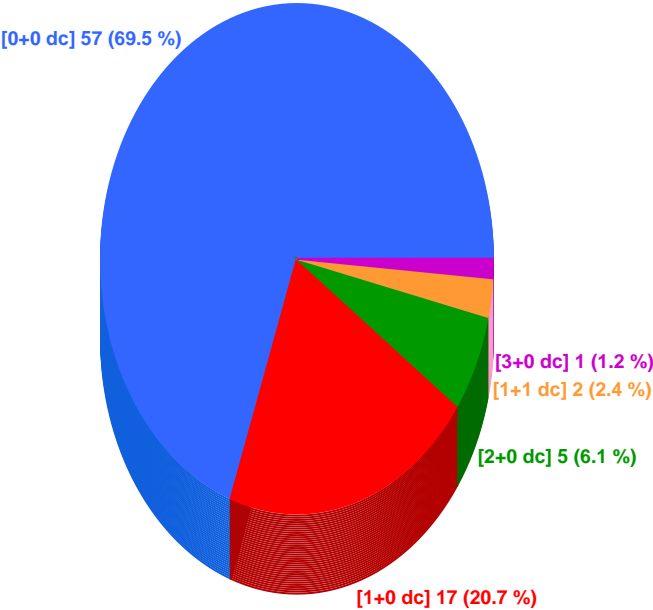
**B-ML-Stave-050:  $(U,L)=(0, 0)$  bad chips**

**B-ML-Stave-049:  $(U,L)=(0, 0)$  bad chips**

## **Staves qualified this week**

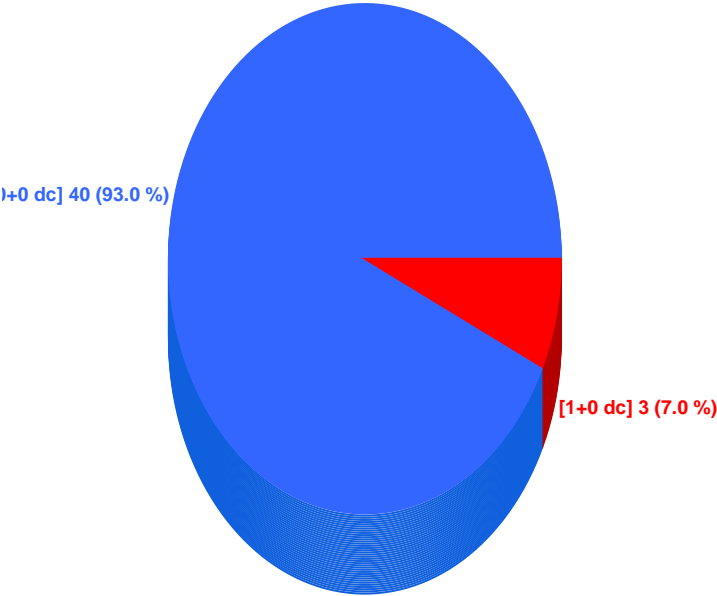
Stave - OL @CERN

98.78 % ok



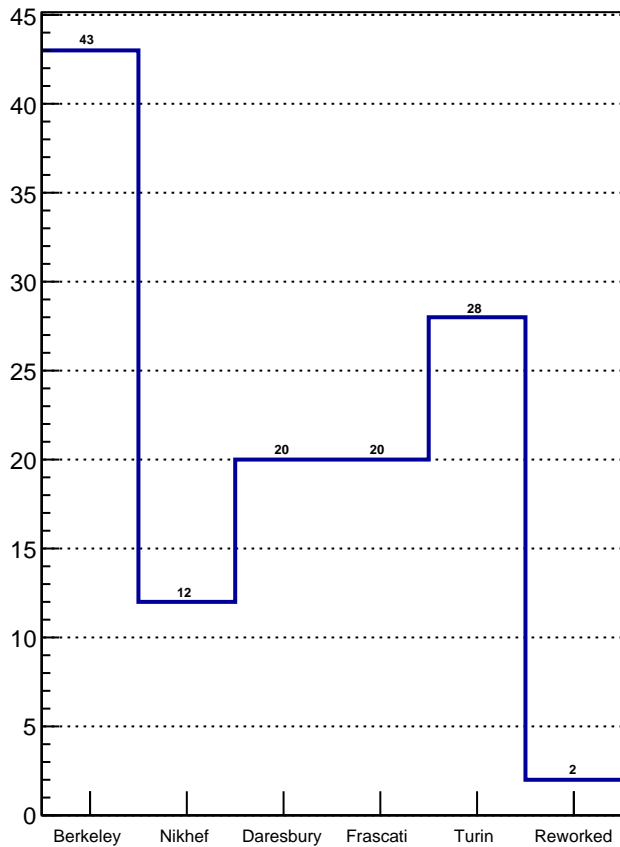
Stave - ML @CERN

100.00 % ok

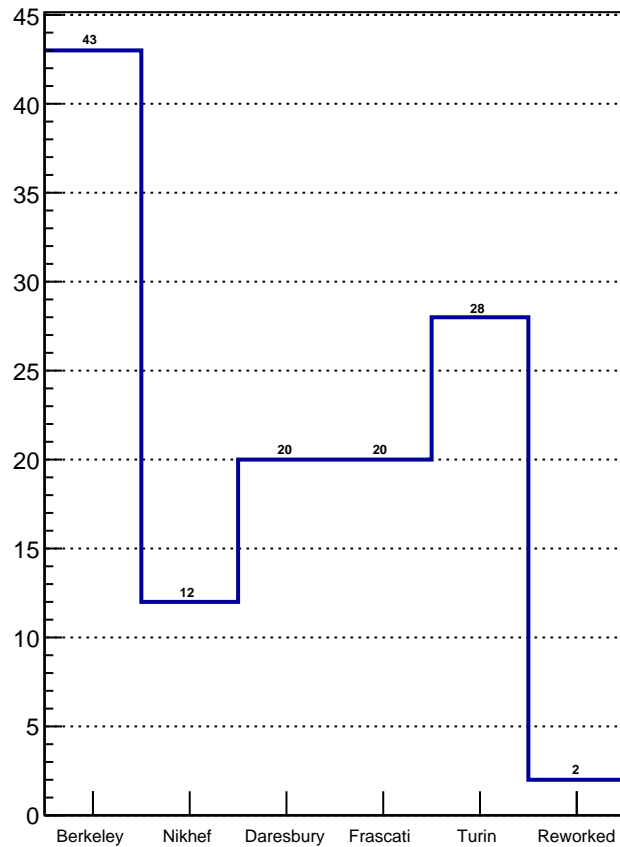




All Stave @CERN

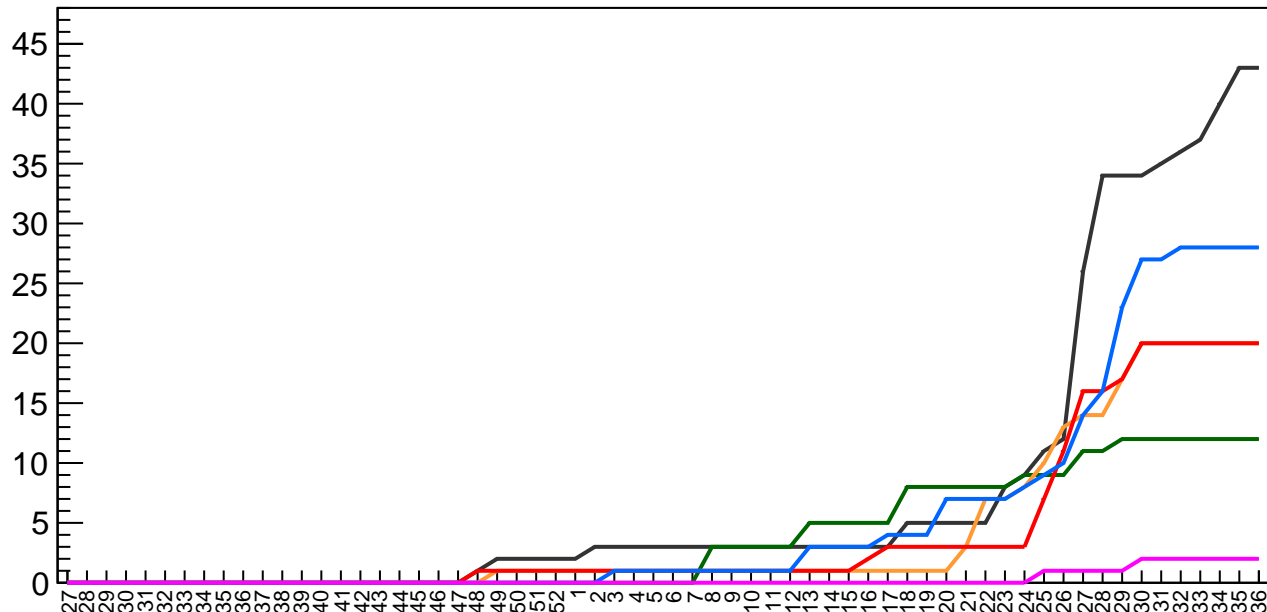


Det. Grade Stave @CERN



— Berkeley  
— Daresbury  
— Turin

— Nikhef  
— Frascati  
— Reworked



# Week

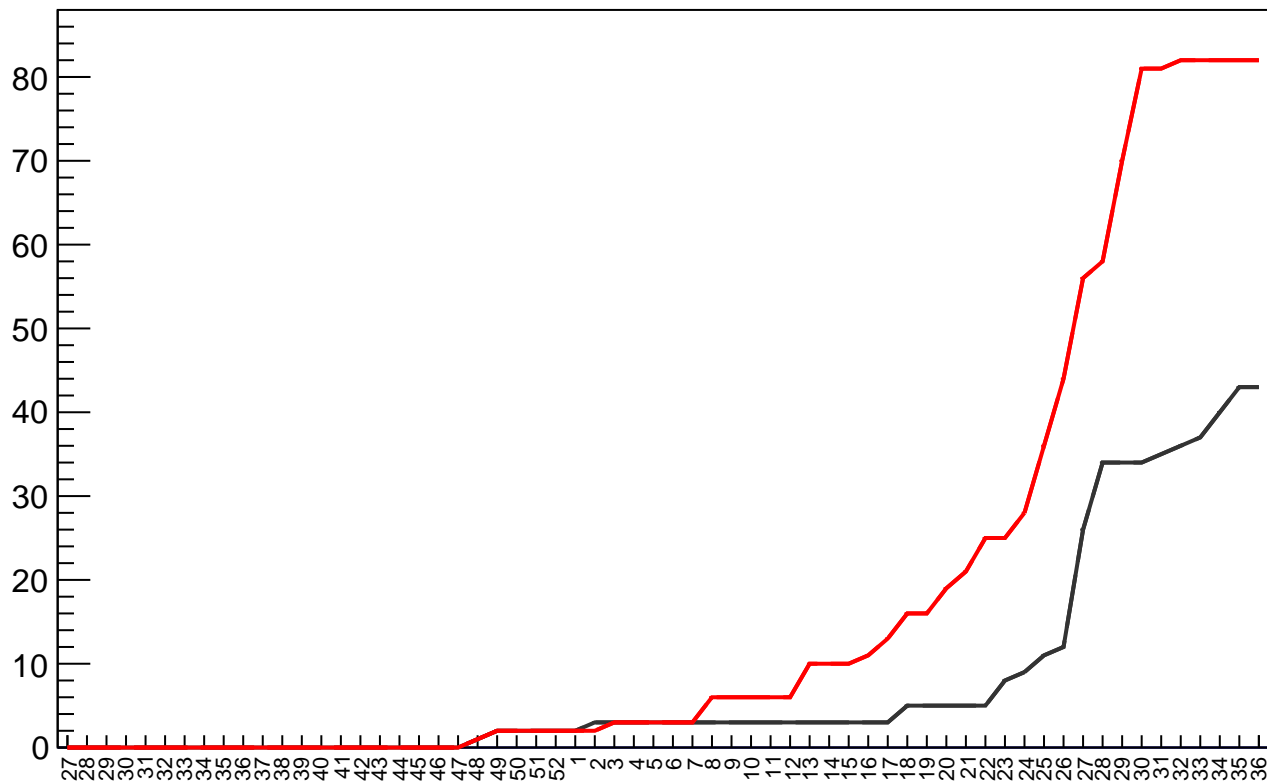
**Turin: +0**

# Det. grade Stave vs time @CERN

— ML(all)  
— OL(all)

— ML(DG)  
— OL(DG)

#Stave



Week

**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-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**

## **HSs (non-DG) not yet tested as Stave**

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

**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**