

# Stave production monitoring

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25/09/2019

Monitoring from January 2018 to 25/09/2019

Stave meeting

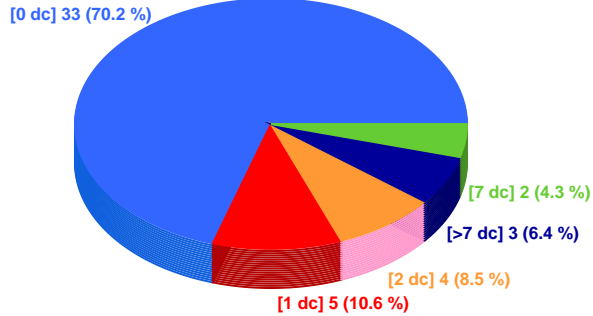
HS monitoring

**HSs of previous week**

**HSs of this week**

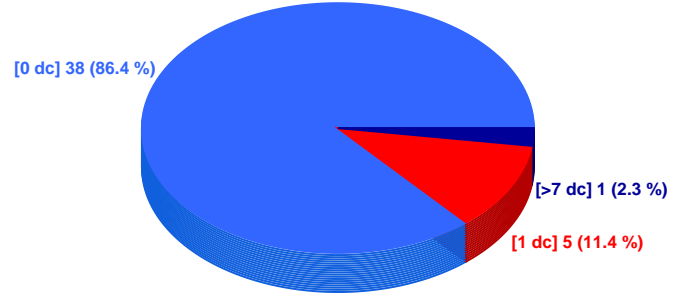
HS - Nikhef

89.36 % ok



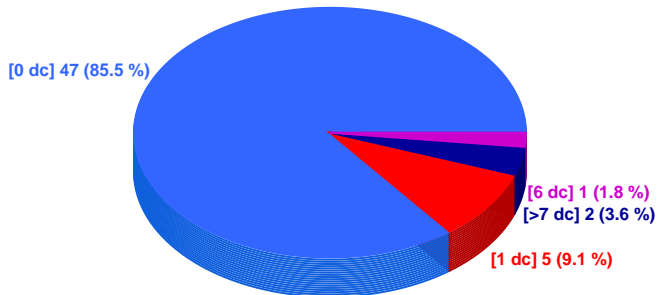
HS - Daresbury

97.73 % ok



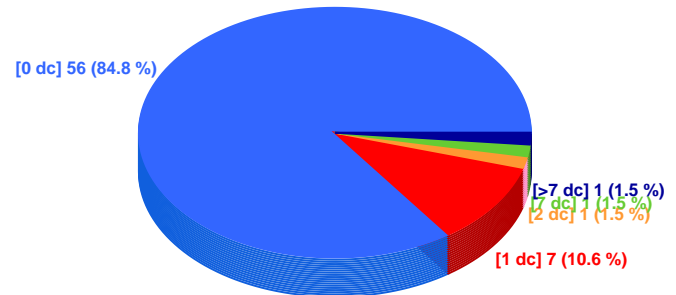
HS - Frascati

94.55 % ok



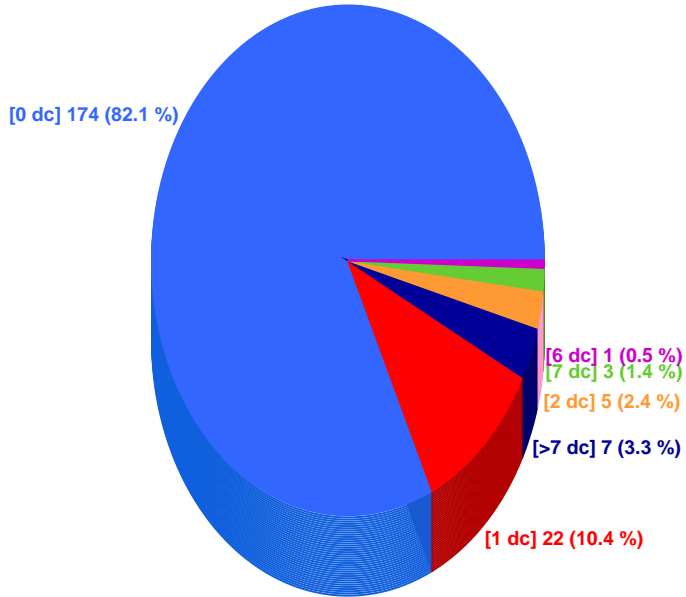
HS - Turin

96.97 % ok



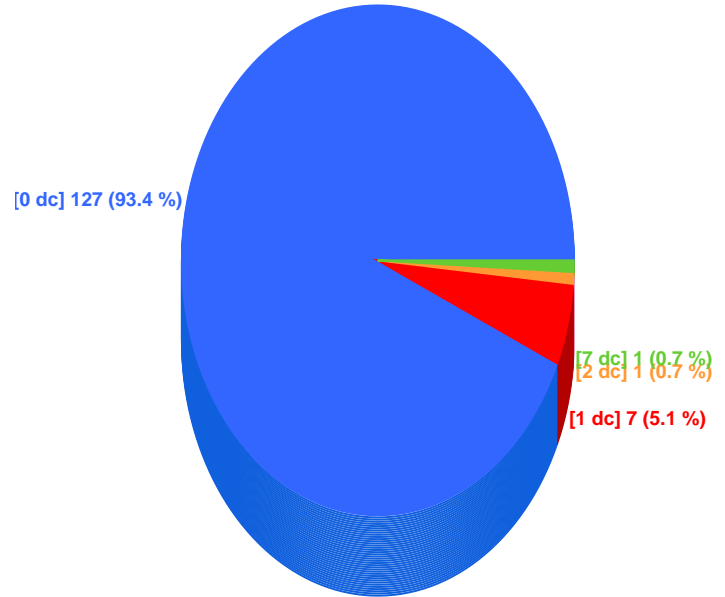
HS - OL

94.81 % ok

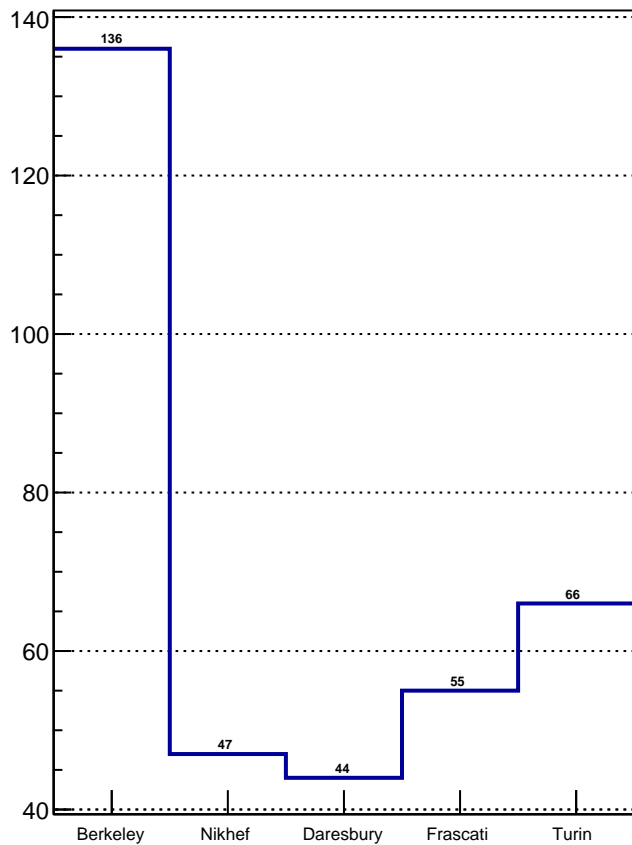


HS - ML

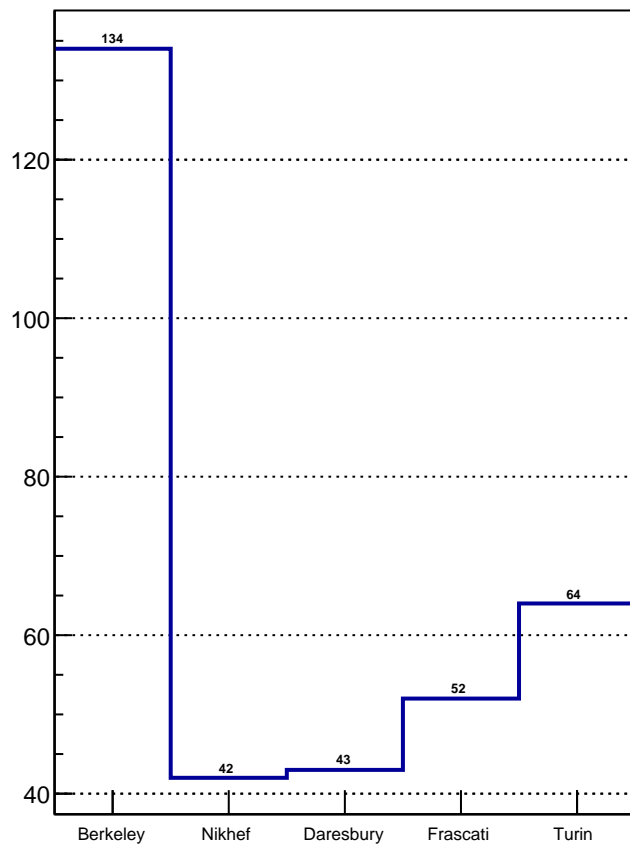
98.53 % ok



# All HS



# Det. Grade HS

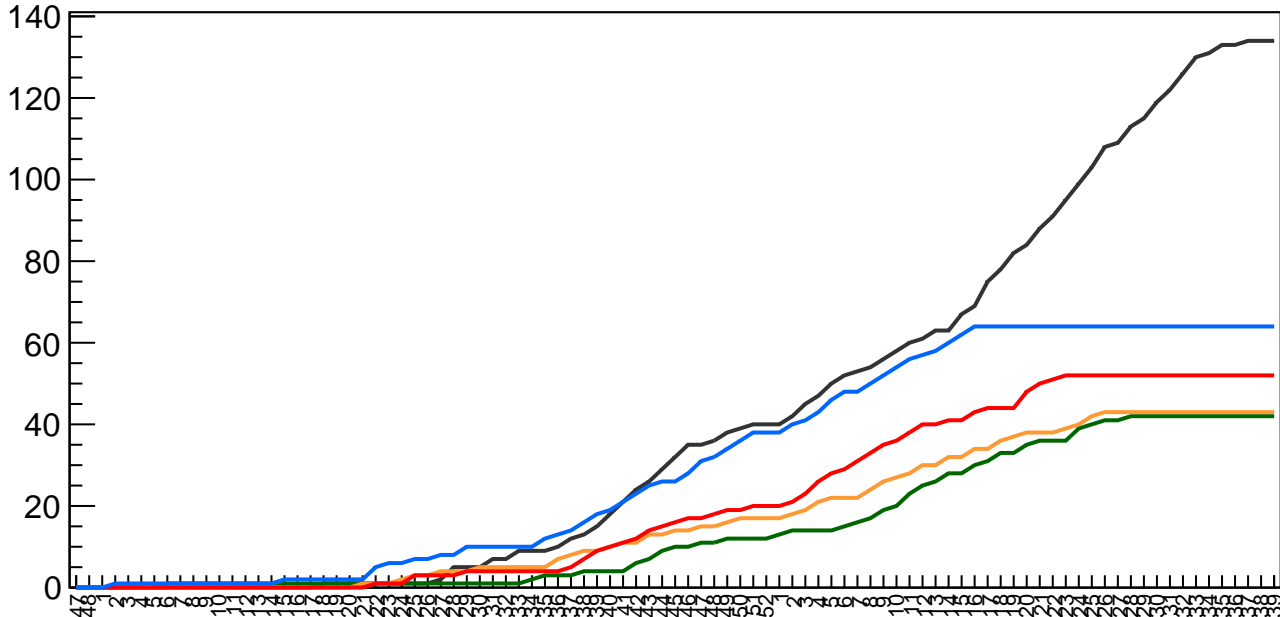


# Det. grade HS vs time

Berkeley  
Daresbury  
Turin

Nikhef  
Frascati

#HS



Week

Comparison to prev. week

Berkeley: +0

Nikhef: +0

Daresbury: +0

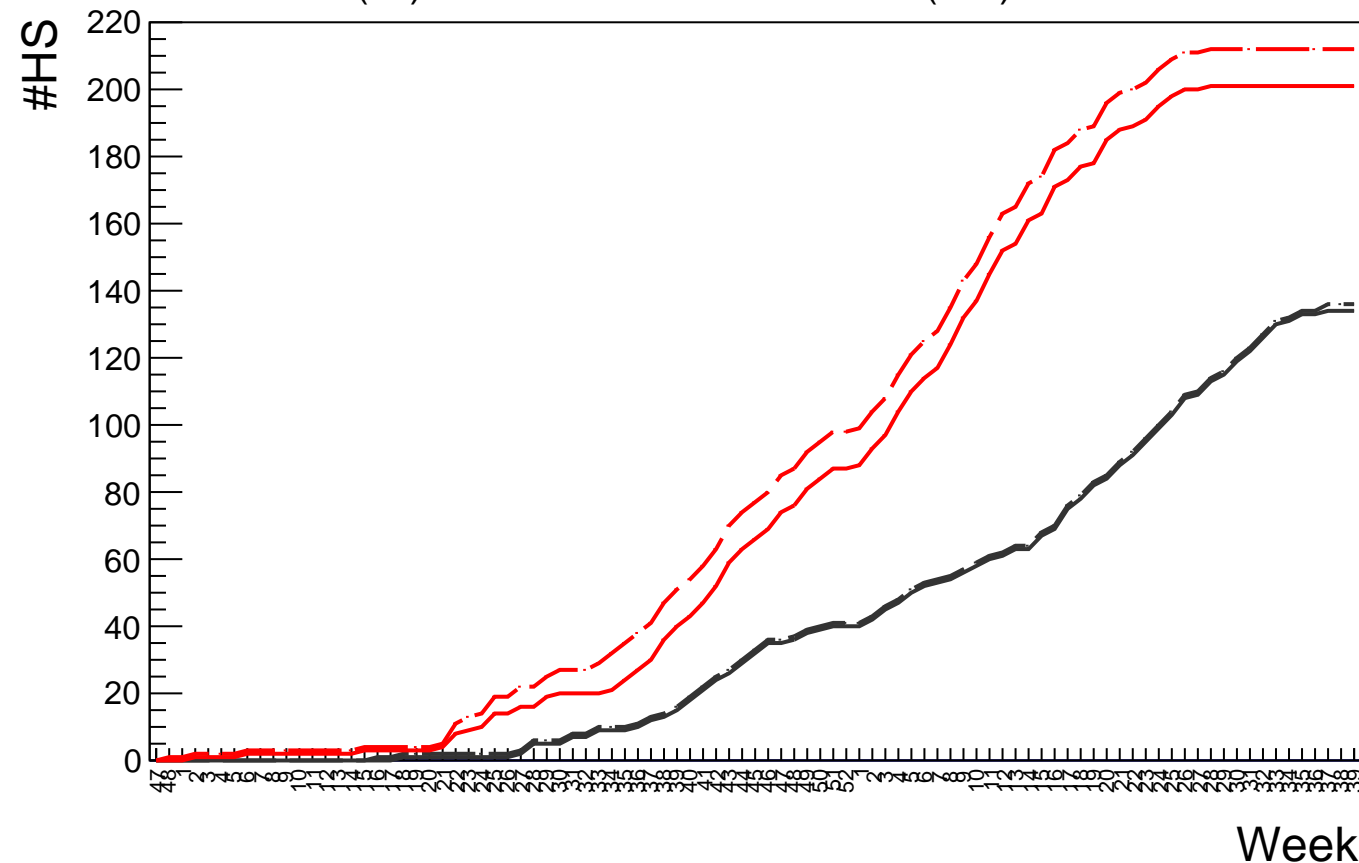
Frascati: +0

Turin: +0

# Det. grade HS vs time

ML(all)  
OL(all)

ML(DG)  
OL(DG)

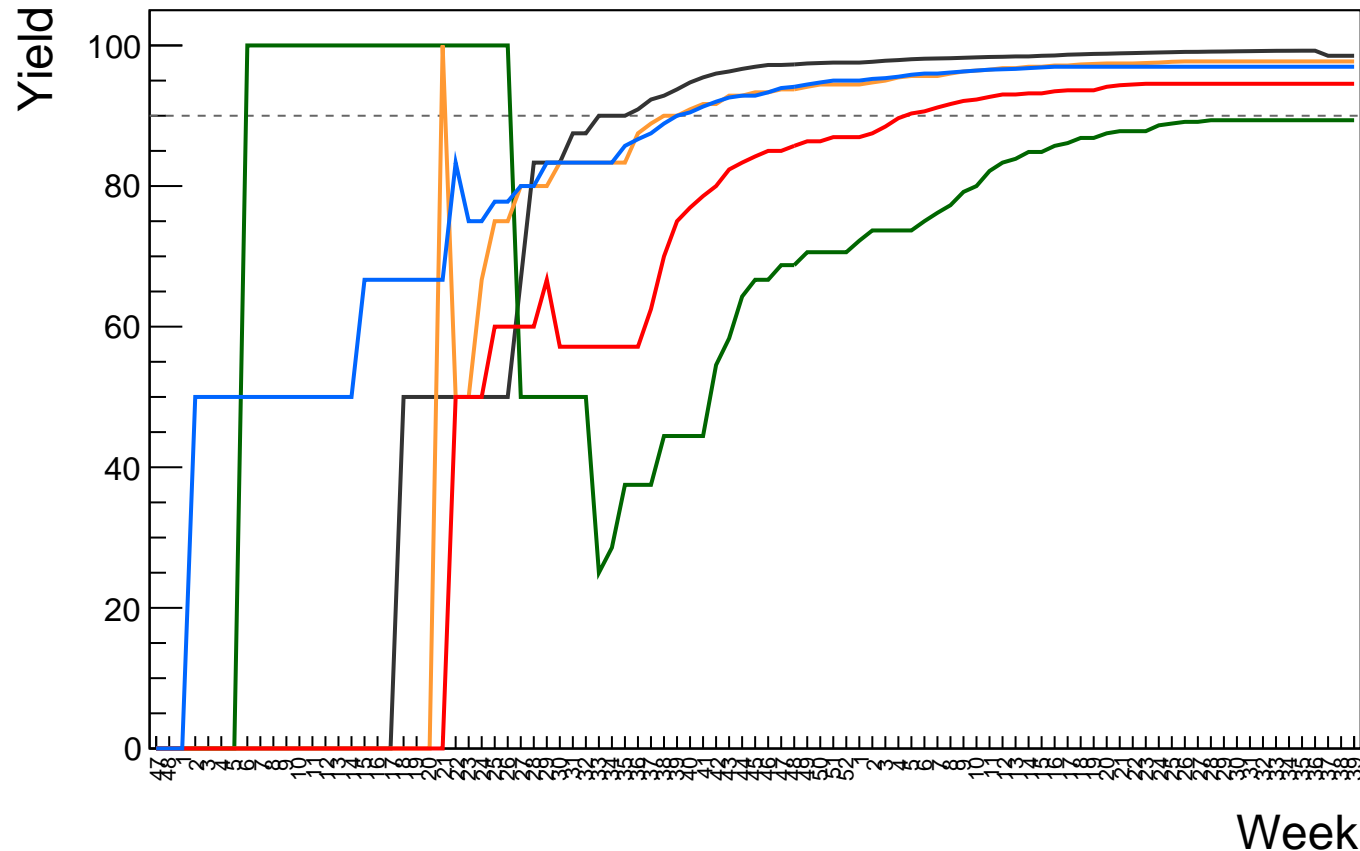




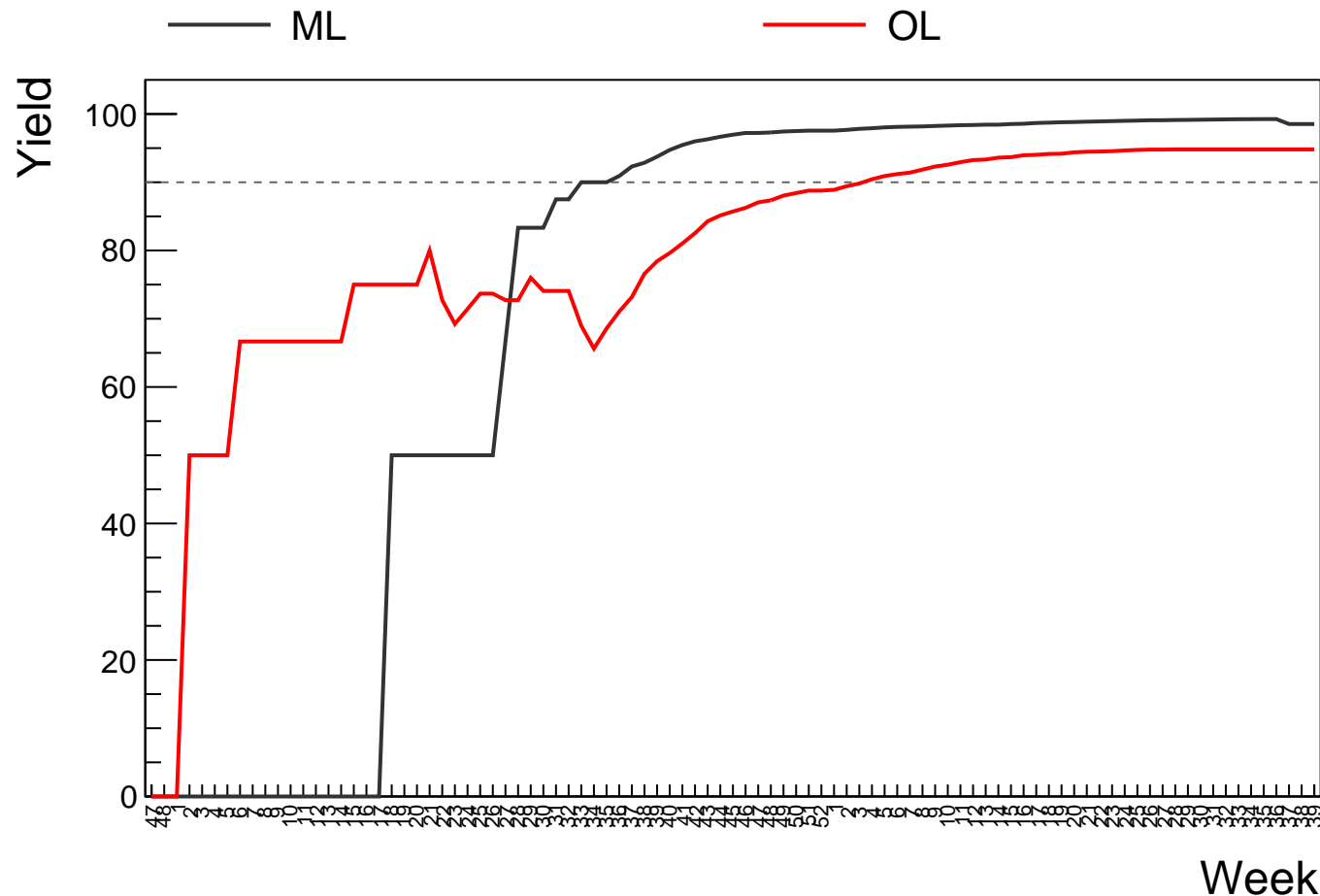
HS Yield vs time

Berkeley  
Daresbury  
Turin

Nikhef  
Frascati



# HS Yield vs time



# Stave monitoring

## **Staves of previous week**

**B-ML-Stave-065:  $(U,L)=(0, 0)$  bad chips**

## **Staves of this week**

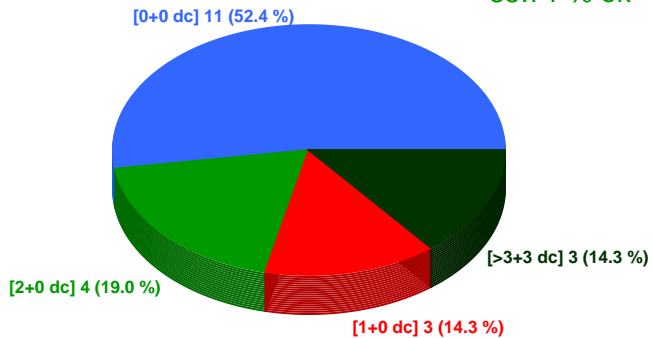
**F-OL-Stave-024:  $(U,L)=(0, 0)$  bad chips**

**A-OL-Stave-023:  $(U,L)=(0, 0)$  bad chips**

**B-ML-Stave-066:  $(U,L)=(0, 0)$  bad chips**

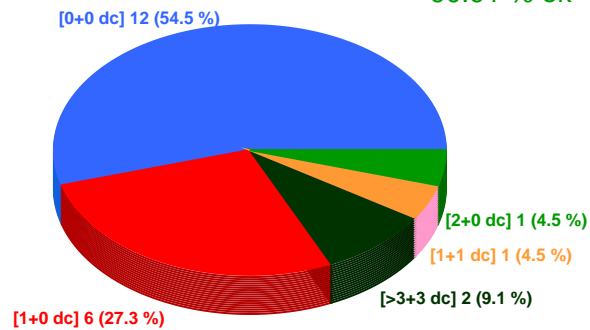
Stave - Nikhef

85.71 % ok



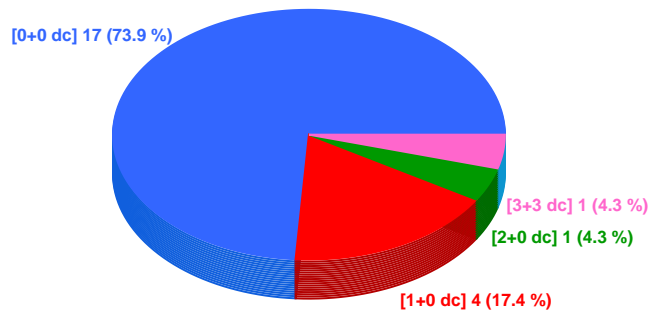
Stave - Daresbury

90.91 % ok



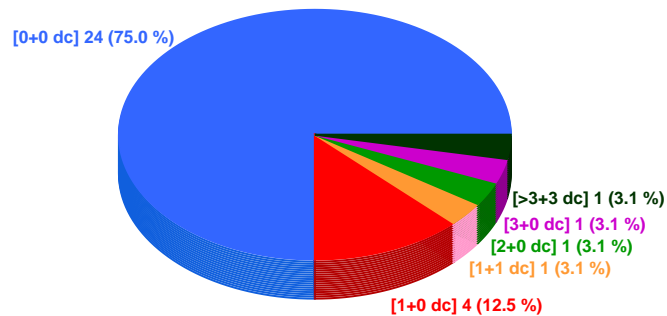
Stave - Frascati

95.65 % ok



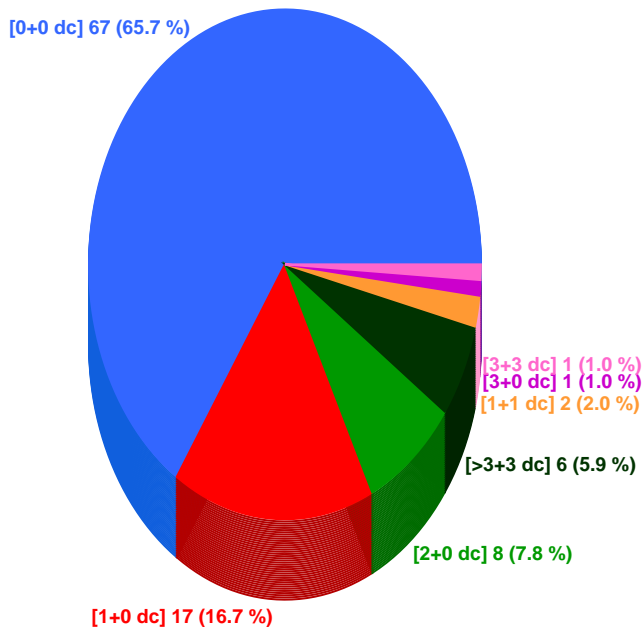
Stave - Turin

93.75 % ok



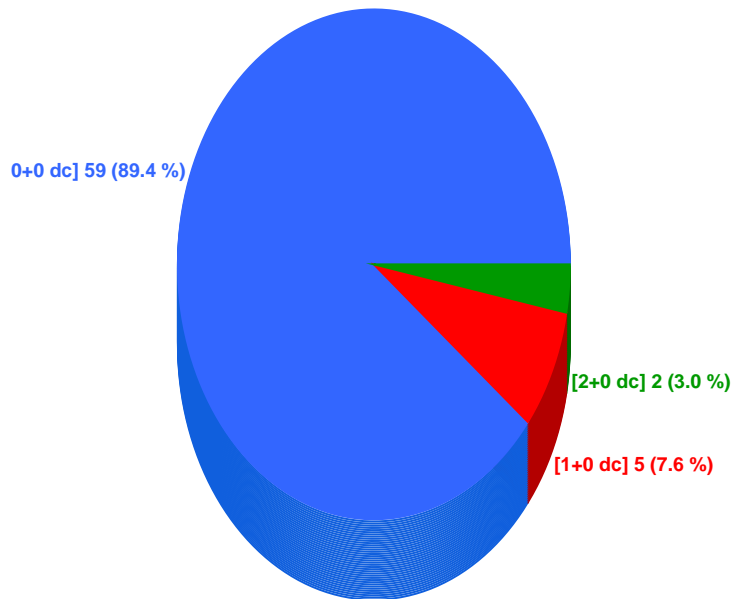
Stave - OL (includes rwk)

92.16 % ok

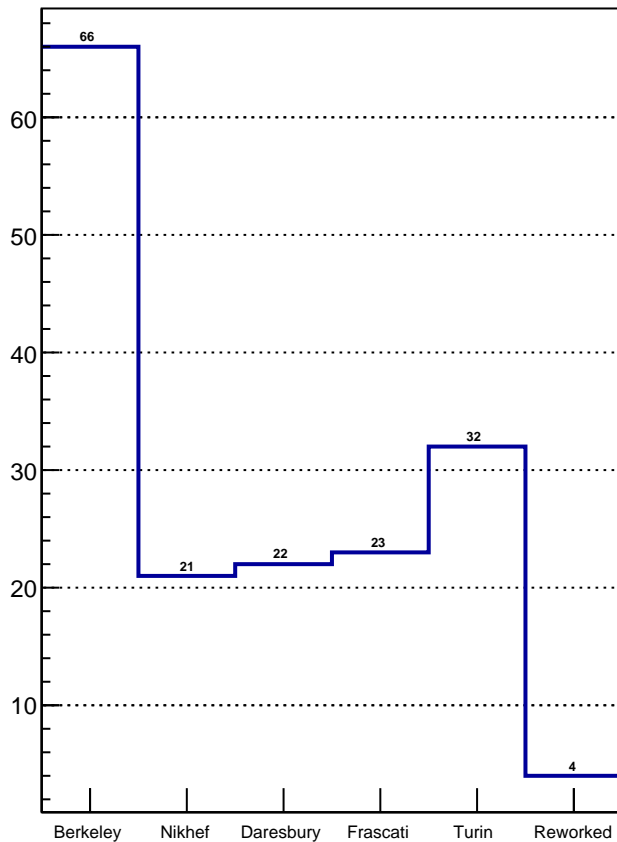


Stave - ML

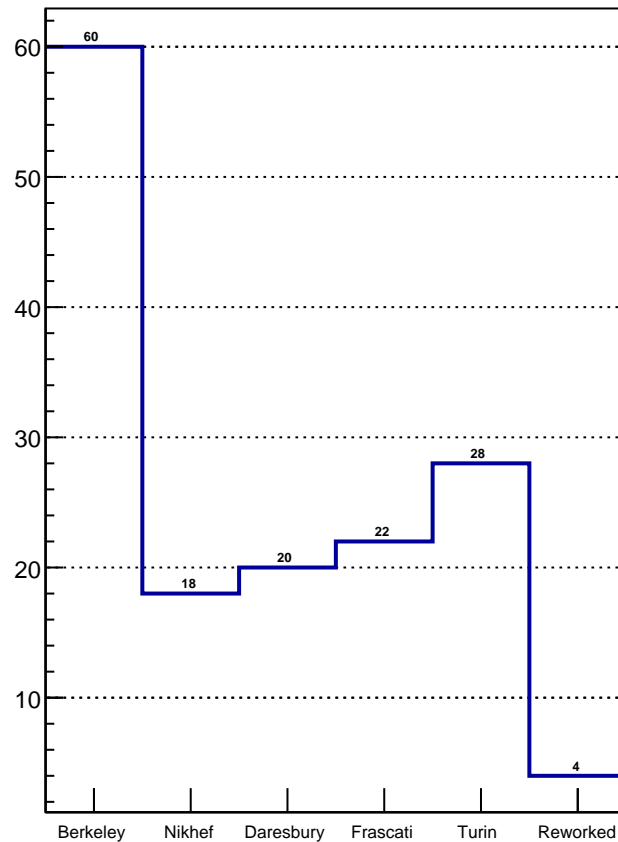
96.97 % ok



# All Stave



# Det. Grade Stave

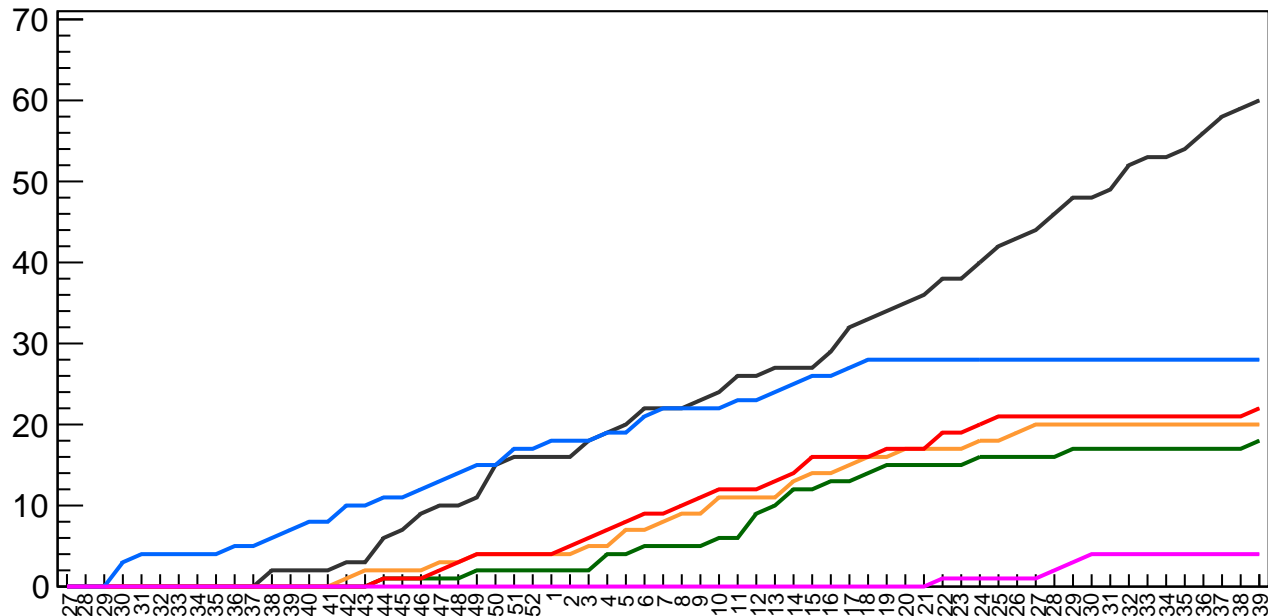


# Det. grade Stave vs time

— Berkeley  
 — Daresbury  
 — Turin

— Nikhef  
 — Frascati  
 — Reworked

#Stave



Week

Comparison to prev. week

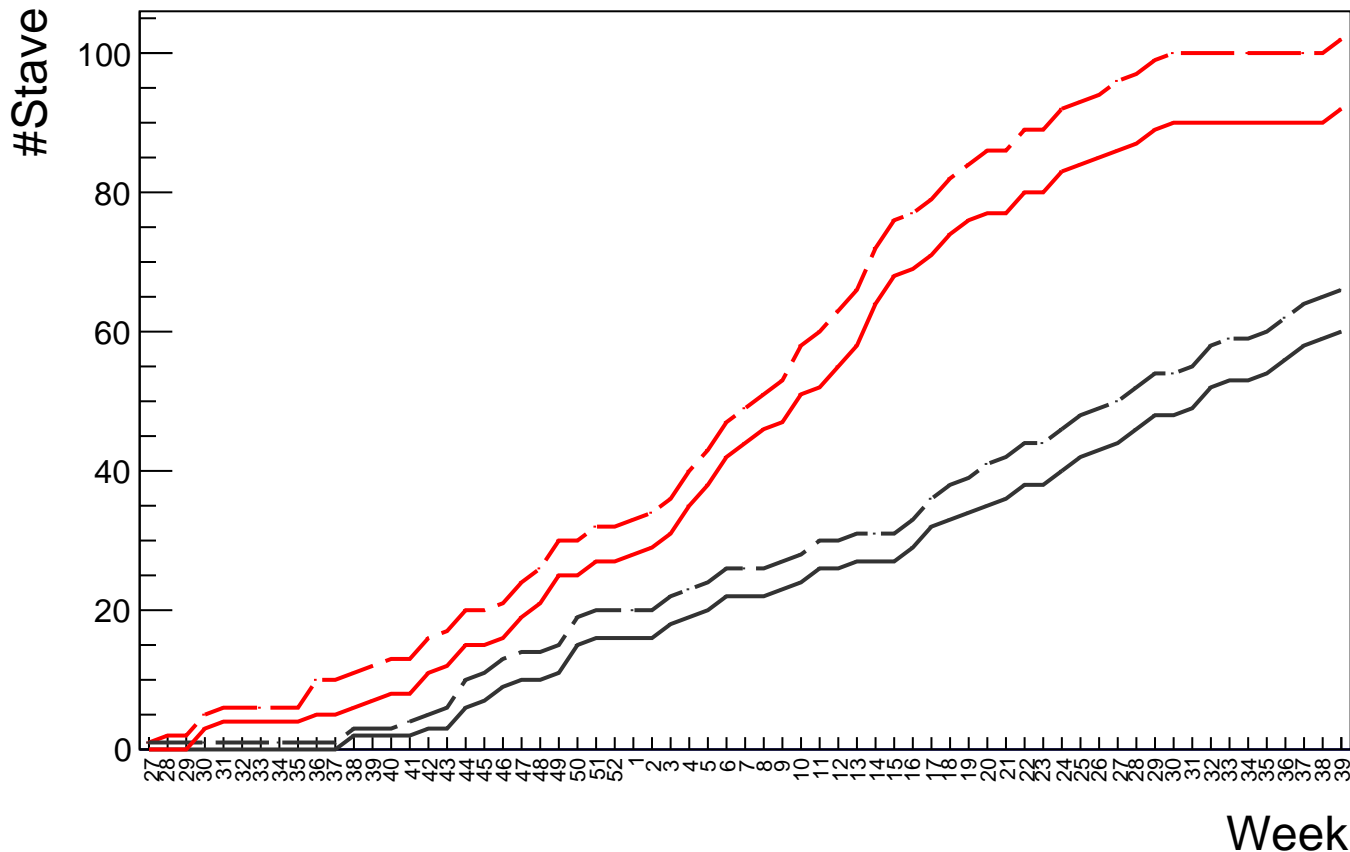
Berkeley: +1  
 Nikhef: +1  
 Daresbury: +0  
 Frascati: +1  
 Turin: +0  
 Reworked: +0



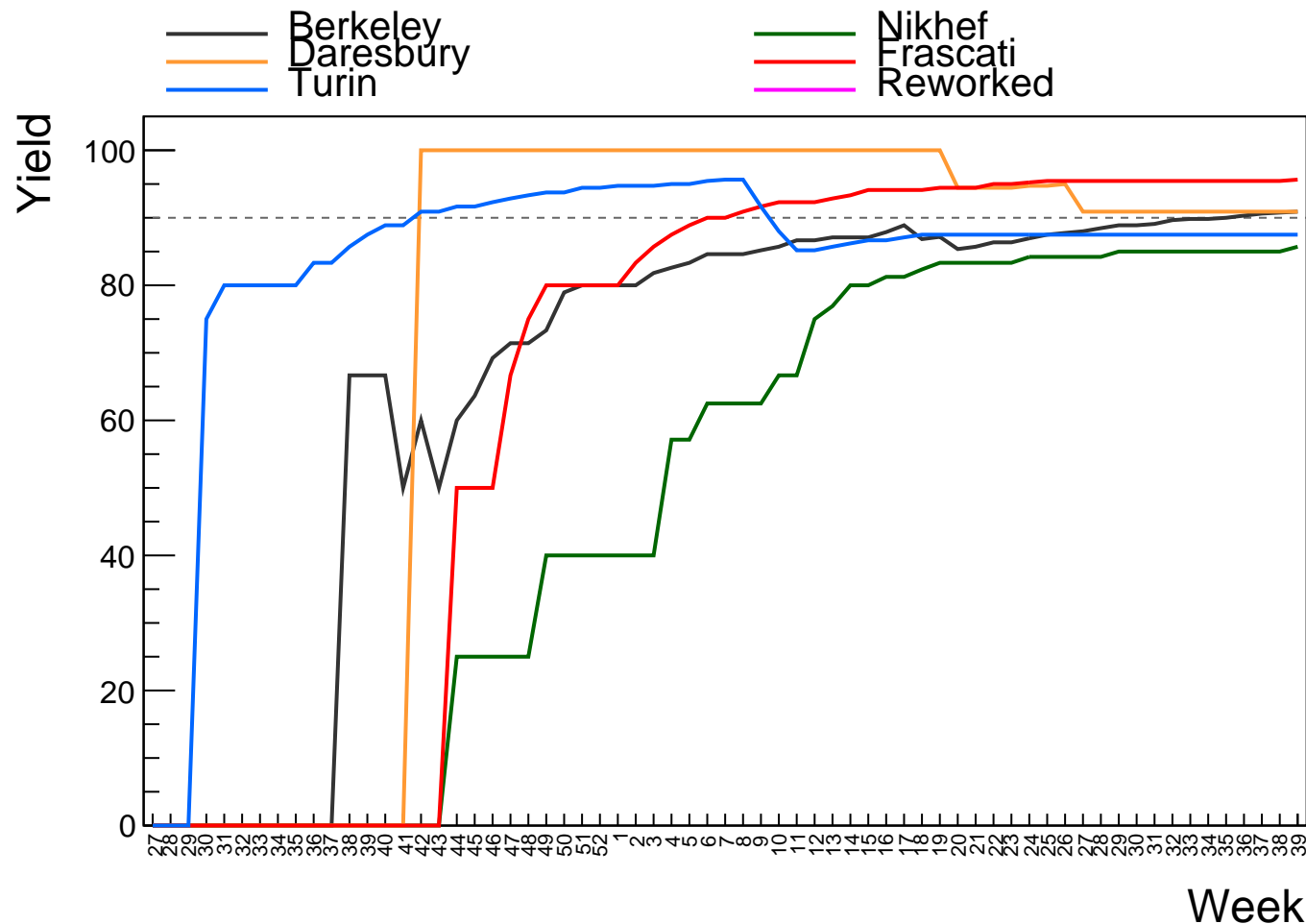
Det. grade Stave vs time

— ML(all)  
— OL(all)

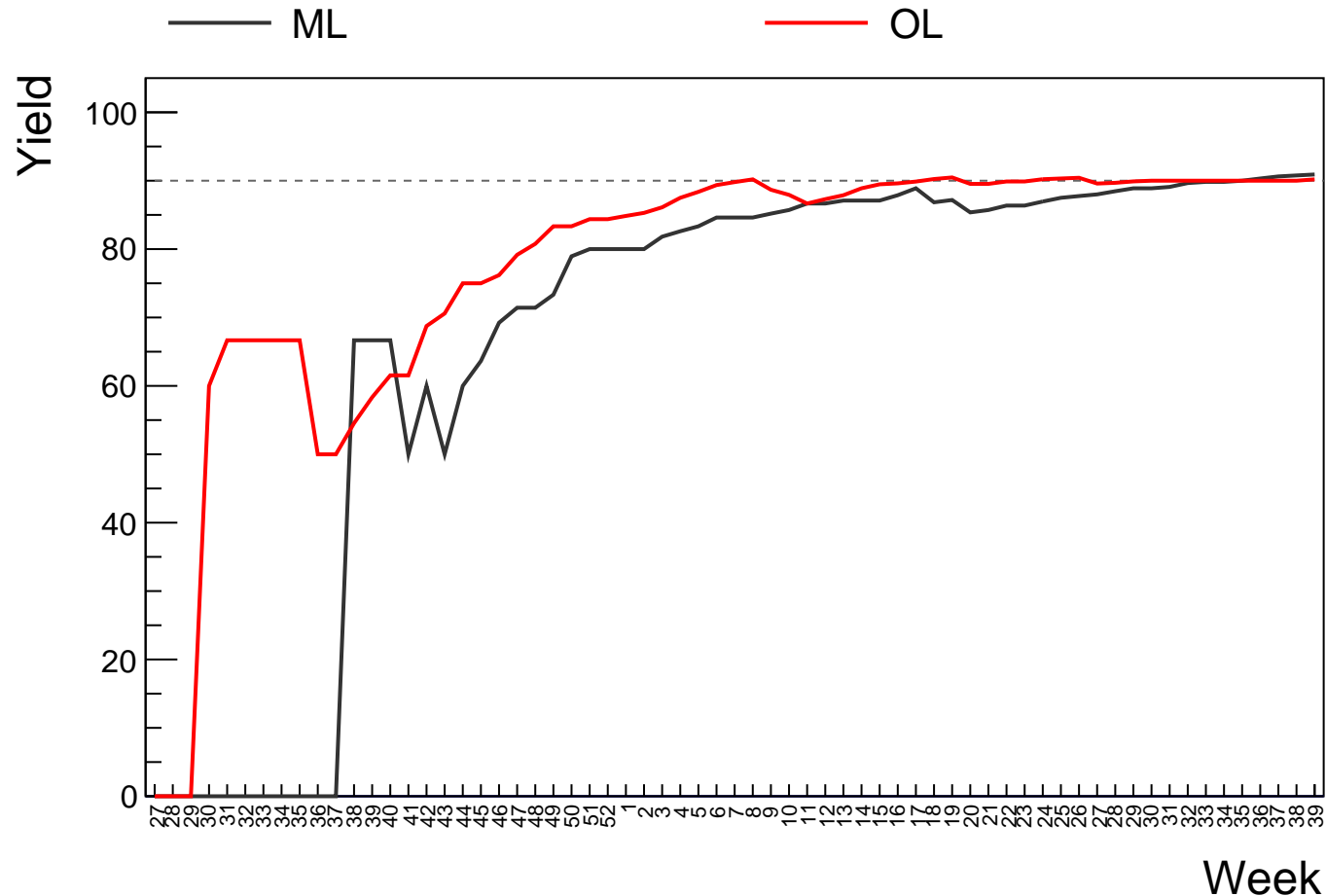
— ML(DG)  
— OL(DG)



# Stave yield vs time



# Stave yield vs time



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

- **Berkeley: 1.27(all) -- 1.16(DG)**
- **Nikhef: 0.35(all) -- 0.35(DG)**
- **Daresbury: 0.45(all) -- 0.41(DG)**
- **Frascati: 0.43(all) -- 0.43(DG)**
- **Turin: 0.79(all) -- 0.69(DG) → Prod. ended**

**OL: 2.02(all) -- 1.87(DG)**

**ML: 1.27(all) -- 1.16(DG)**

**Rework rate (from June 1st, 2019): 0.24(all) -- 0.24(DG)**

**\*\*Christmas holiday excluded (2 weeks)**

Production rate 2019 (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) -- 1.20(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) -- 1.20(DG)
May
→ Berkeley: 1.60(all) -- 1.20(DG)
→ Nikhef: 0.40(all) -- 0.40(DG)
→ Daresbury: 0.60(all) -- 0.40(DG)
→ Frascati: 0.60(all) -- 0.60(DG)
→ Turin: Production ended
OL: 1.60(all) -- 1.40(DG)
ML: 1.60(all) -- 1.20(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-057: (U,L)=(0, 0) bad chips**

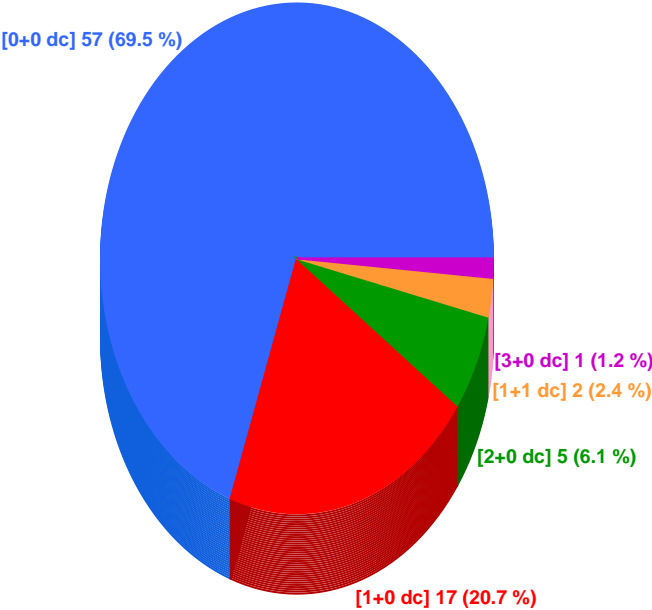
**B-ML-Stave-055: (U,L)=(0, 0) bad chips**

**B-ML-Stave-054: (U,L)=(0, 0) bad chips**

## **Staves qualified this week**

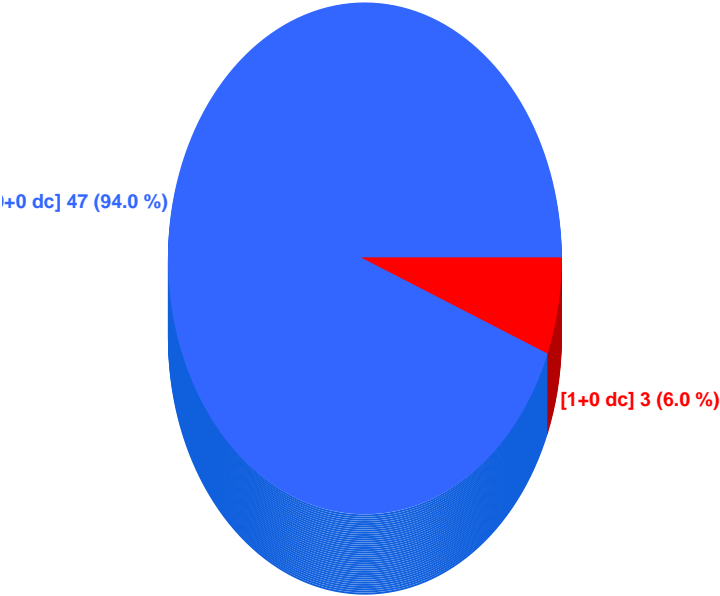
Stave - OL @CERN

98.78 % ok



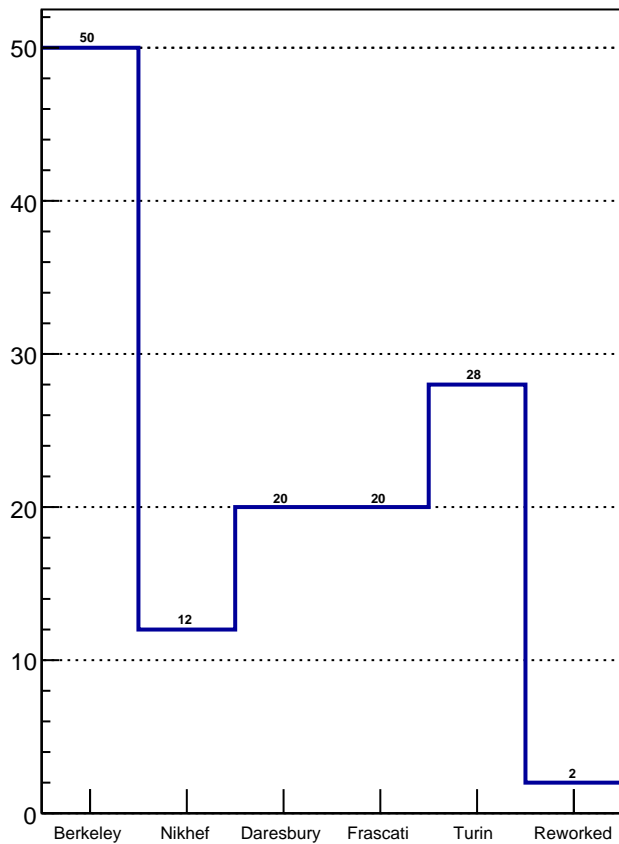
Stave - ML @CERN

100.00 % ok

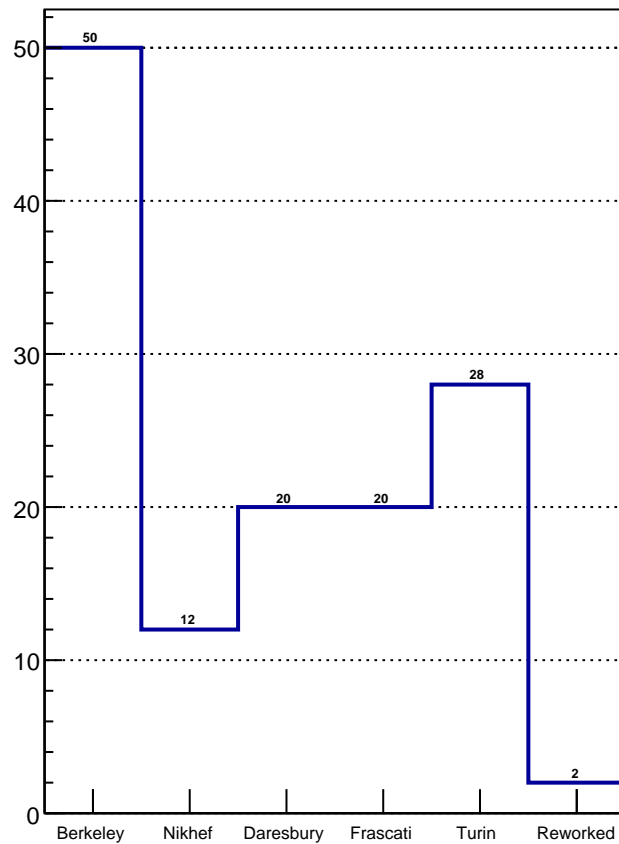




All Stave @CERN



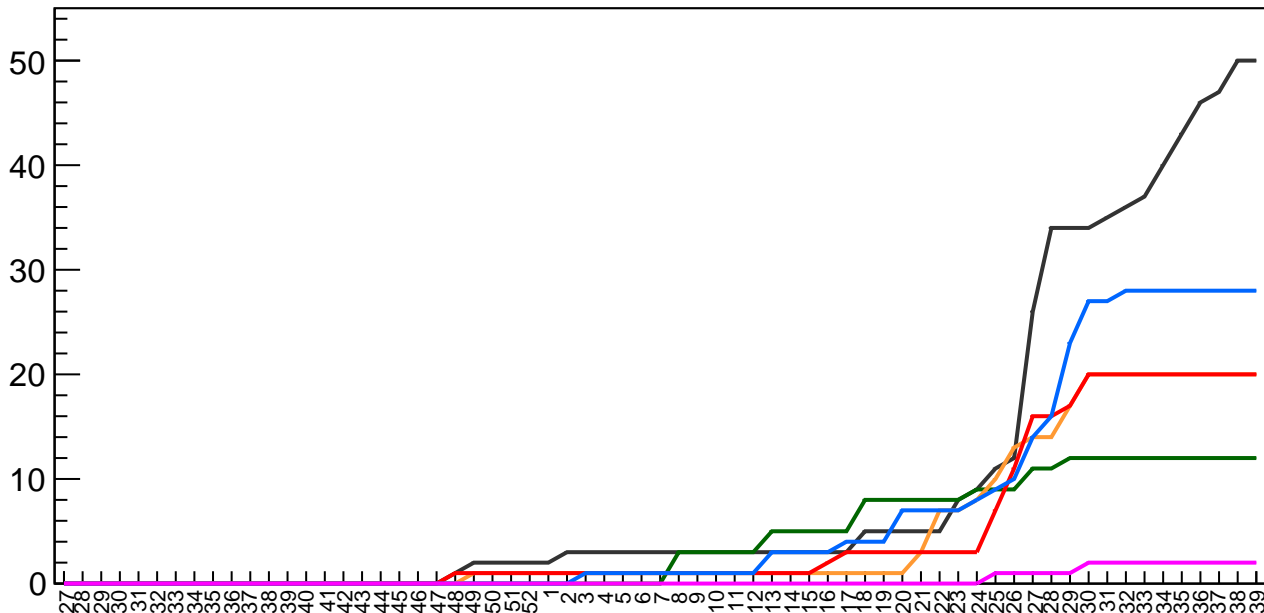
Det. Grade Stave @CERN



# Det. grade Stave vs time @CERN

Berkeley  
 Daresbury  
 Turin  
 Nikhef  
 Frascati  
 Reworked

#Stave



Week

Comparison to prev. week

Berkeley: +0

Nikhef: +0

Daresbury: +0

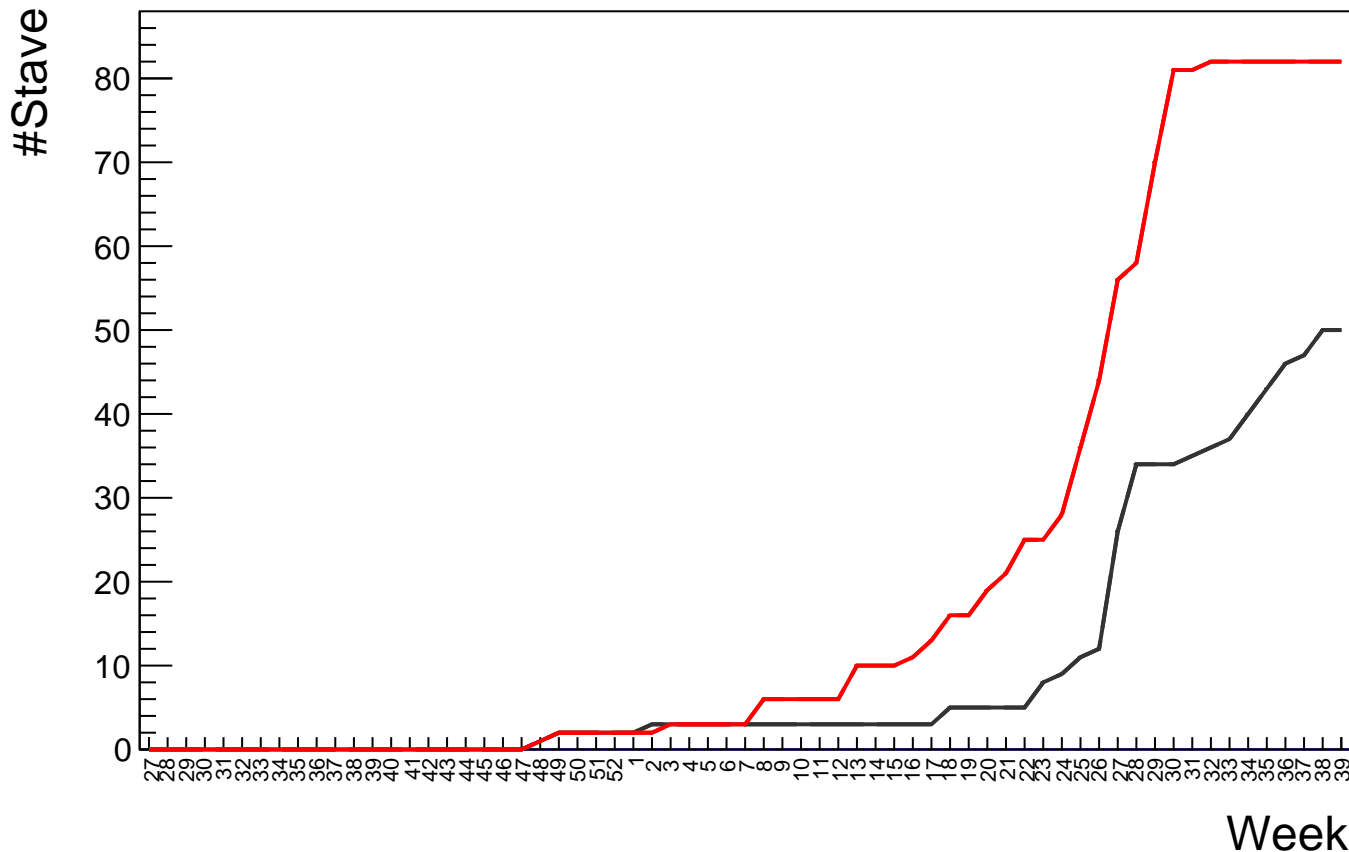
Frascati: +0

Turin: +0

# Det. grade Stave vs time @CERN

— ML(all)  
— OL(all)

— ML(DG)  
— OL(DG)



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

**Berkeley: 1.23(all) -- 1.23(DG)**

**Nikhef: 0.30(all) -- 0.30(DG)**

**Daresbury: 0.50(all) -- 0.50(DG)**

**Frascati: 0.47(all) -- 0.47(DG)**

**Turin: 0.70(all) -- 0.70(DG)**

**OL: 1.97(all) -- 1.97(DG)**

**ML: 1.23(all) -- 1.23(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-L-027: 0 bad chips**

**F-OL-HS-L-026: 0 bad chips**

**F-OL-HS-L-025: 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-023: 0 bad chips**

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

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

**B-ML-HS-L-058: 0 bad chips**

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

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

**B-ML-HS-U-031: 7 bad chips -> rework(?)**

Stave not DG

### **Staves not DG - reworkable**

**D-OL-Stave-008: (U,L) = (0, 14) bad chips**

**A-OL-Stave-001: (U,L) = (2, 14) bad chips**

**A-OL-Stave-002: (U,L) = (7, 49) bad chips**

**A-OL-Stave-003: (U,L) = (0, 28) bad chips**

**F-OL-Stave-002: (U,L) = (3, 3) 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**