

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

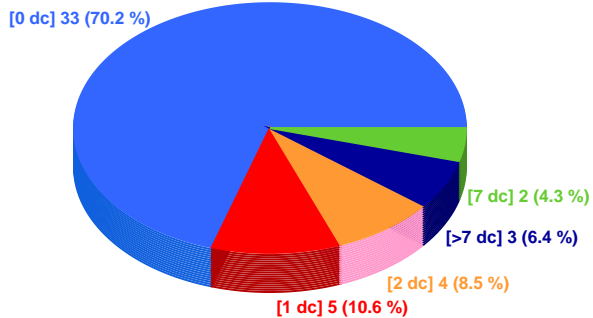
B-ML-HS-U-067: 0 bad chips

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

HSs of this week

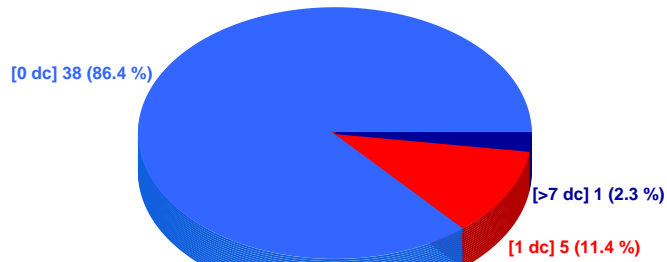
HS - Nikhef

89.36 % ok



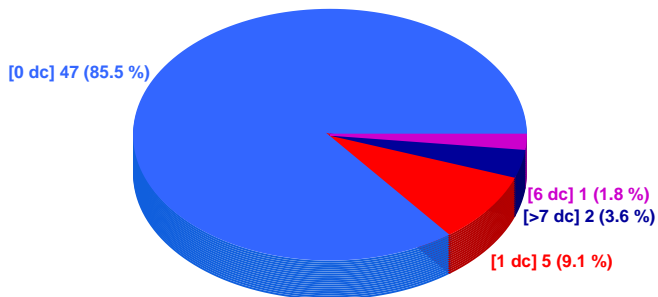
HS - Daresbury

97.73 % ok



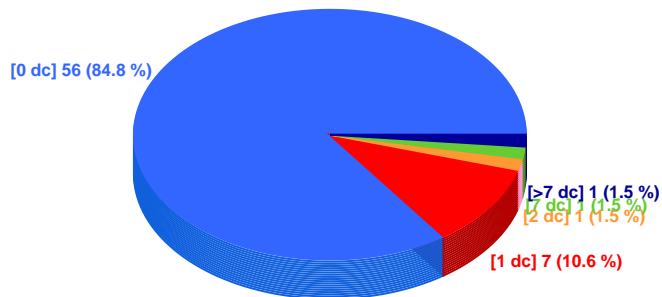
HS - Frascati

94.55 % ok



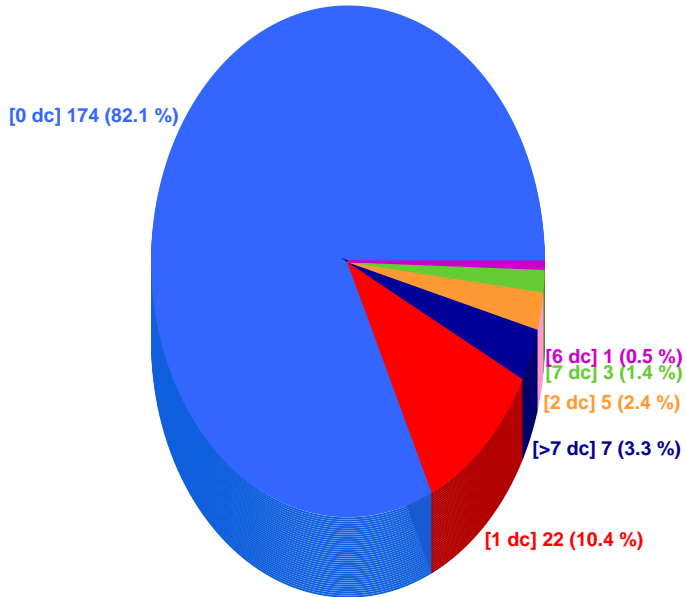
HS - Turin

96.97 % ok



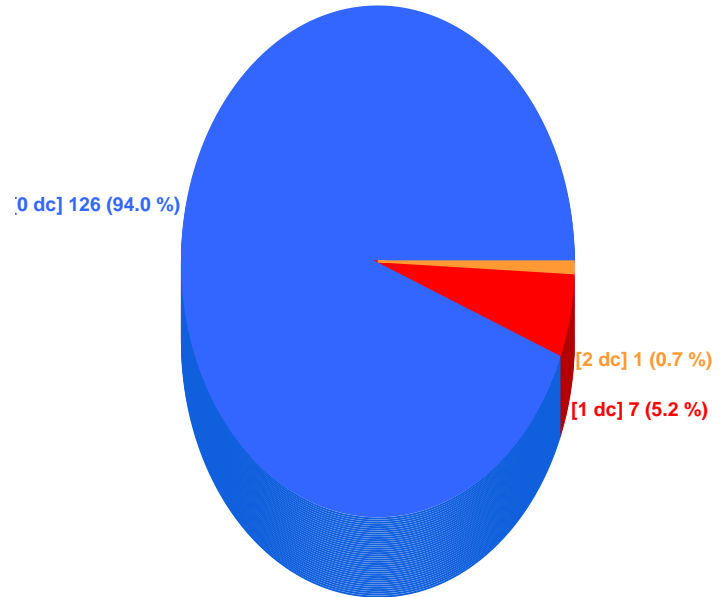
HS - OL

94.81 % ok

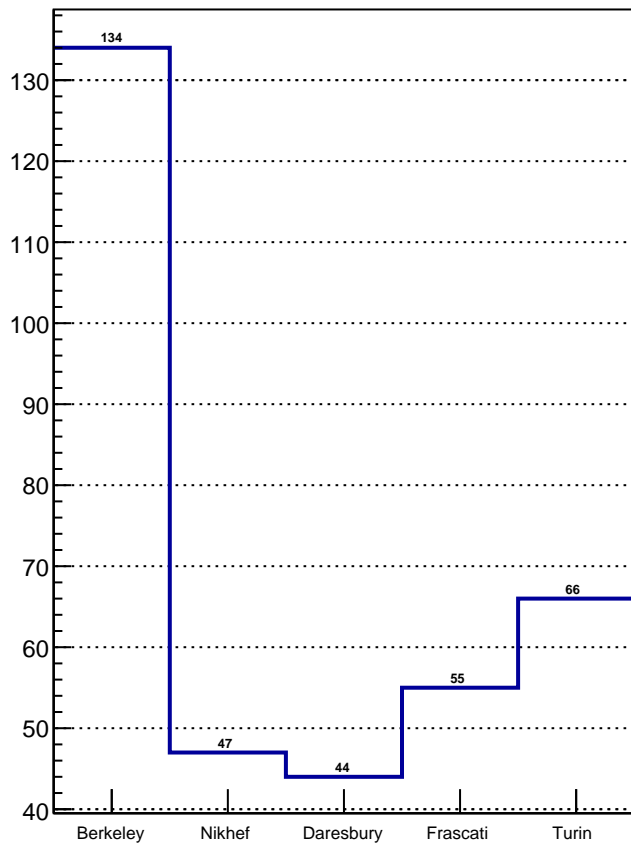


HS - ML

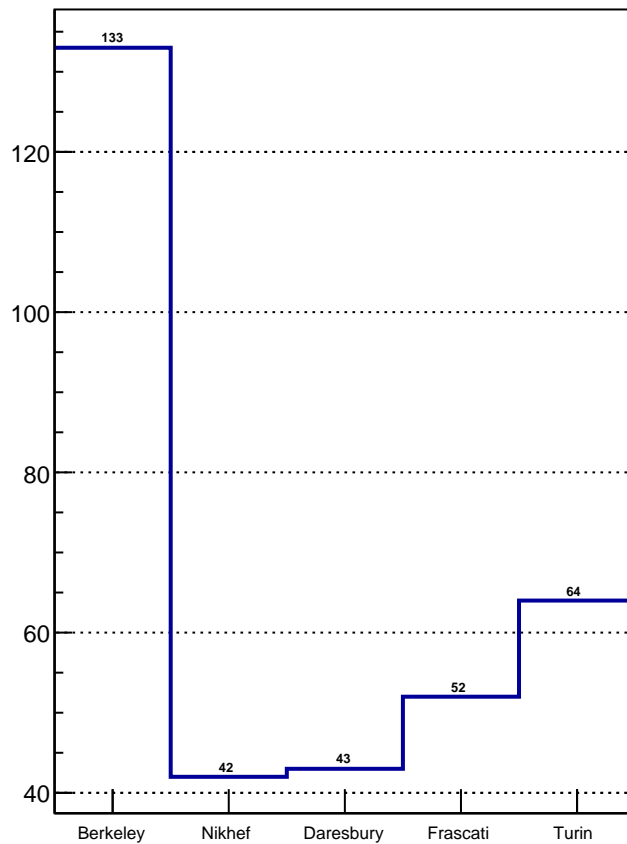
99.25 % ok



All HS



Det. Grade HS

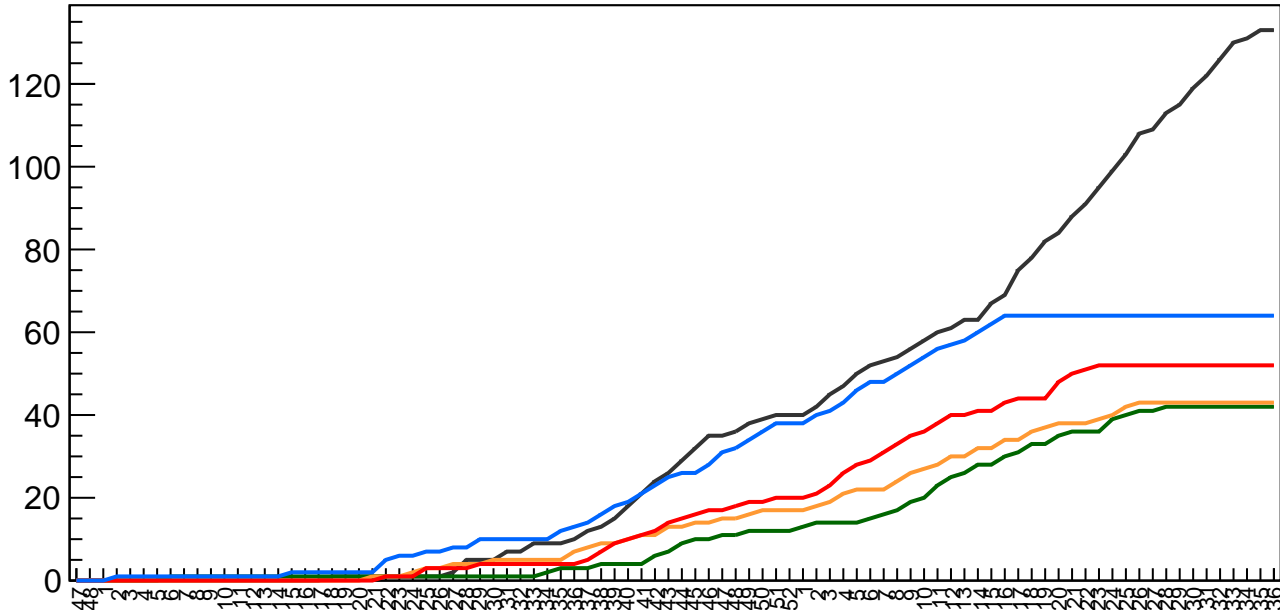


Det. grade HS vs time

Berkeley
Daresbury
Turin

Nikhef
Frascati

#HS



Week

Comparison to prev. week

Berkeley: +0

Nikhef: +0

Daresbury: +0

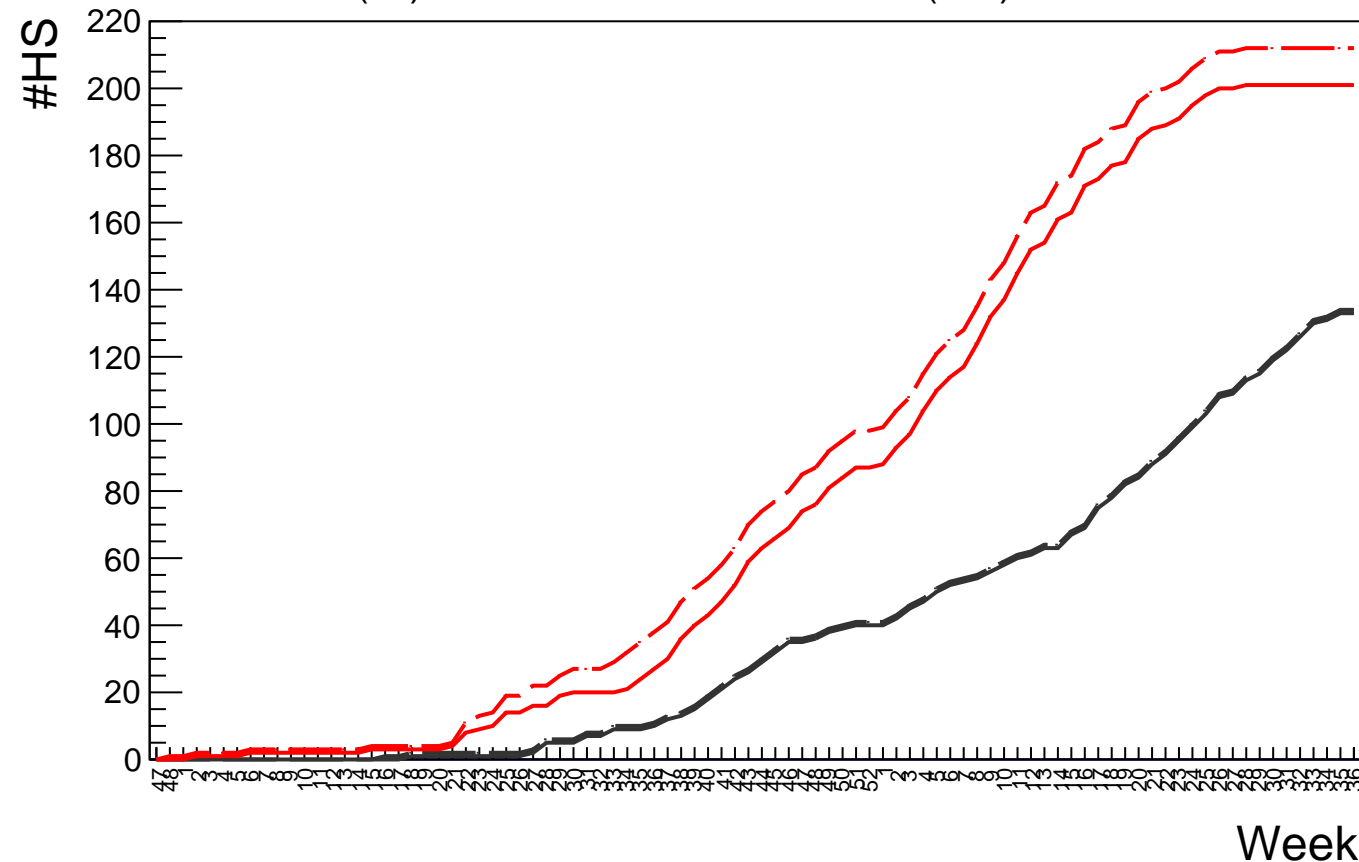
Frascati: +0

Turin: +0

Det. grade HS vs time

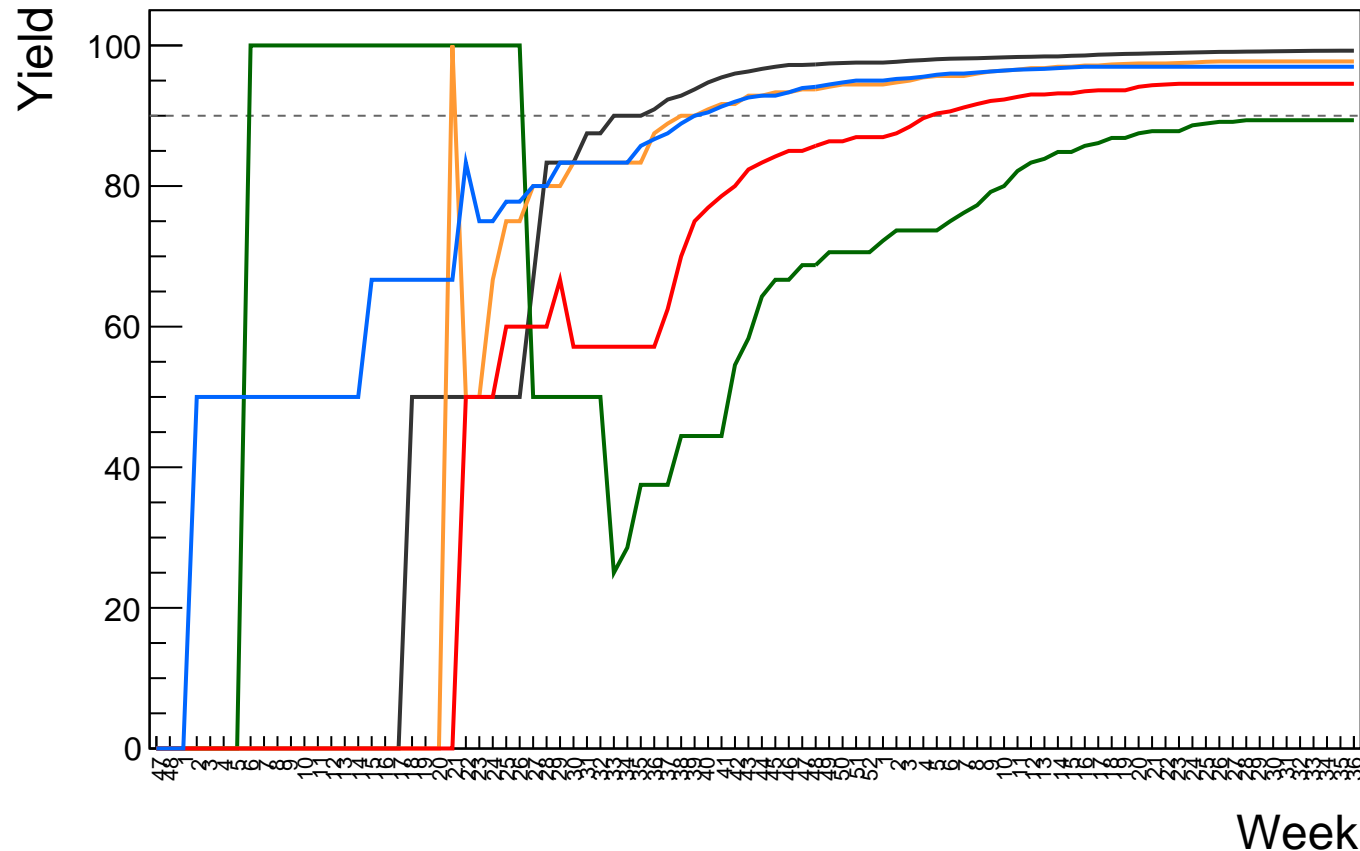
ML(all)
OL(all)

ML(DG)
OL(DG)

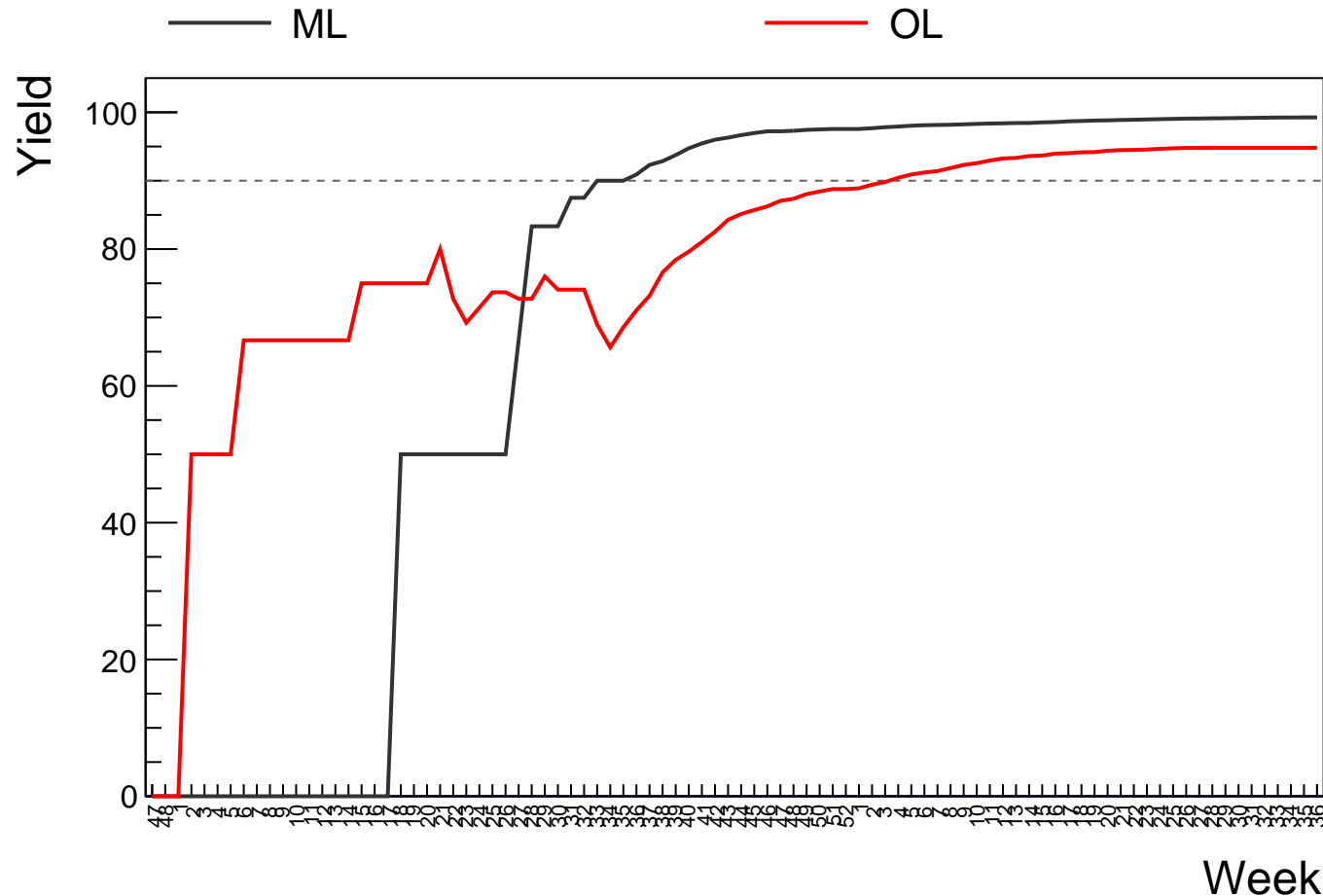


HS Yield vs time

— Berkeley
— Daresbury
— Turin
— Nikhef
— Frascati



HS Yield vs time



Stave monitoring

Staves of previous week

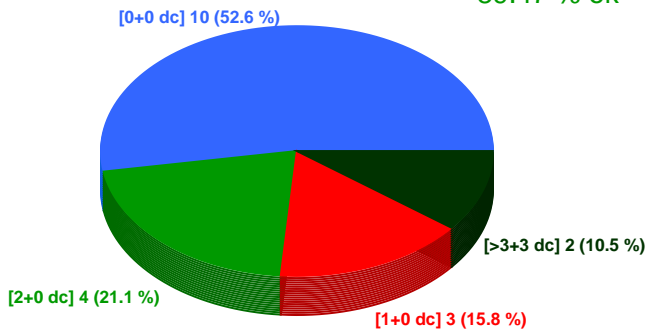
B-ML-Stave-063: $(U,L)=(0, 0)$ bad chips

Staves of this week

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

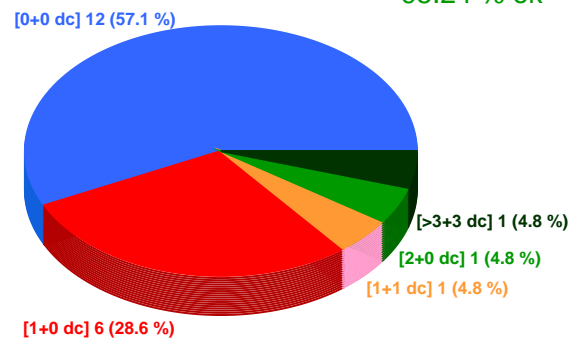
Stave - Nikhef

89.47 % ok



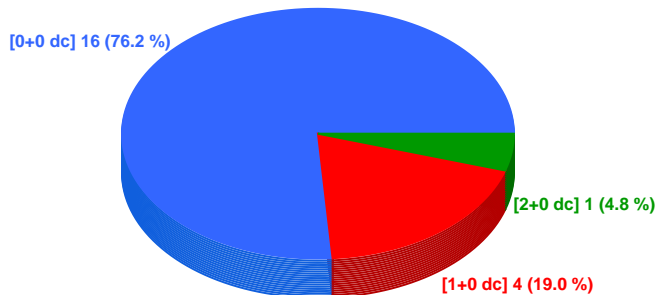
Stave - Daresbury

95.24 % ok



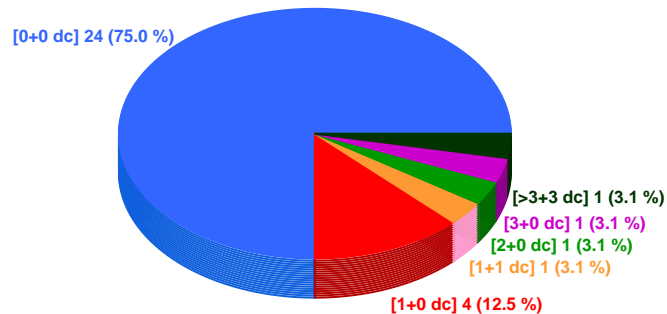
Stave - Frascati

100.00 % ok



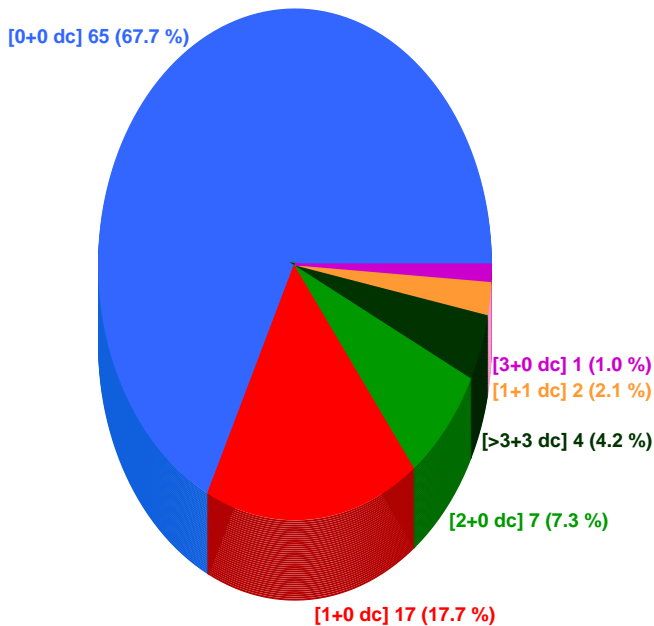
Stave - Turin

93.75 % ok



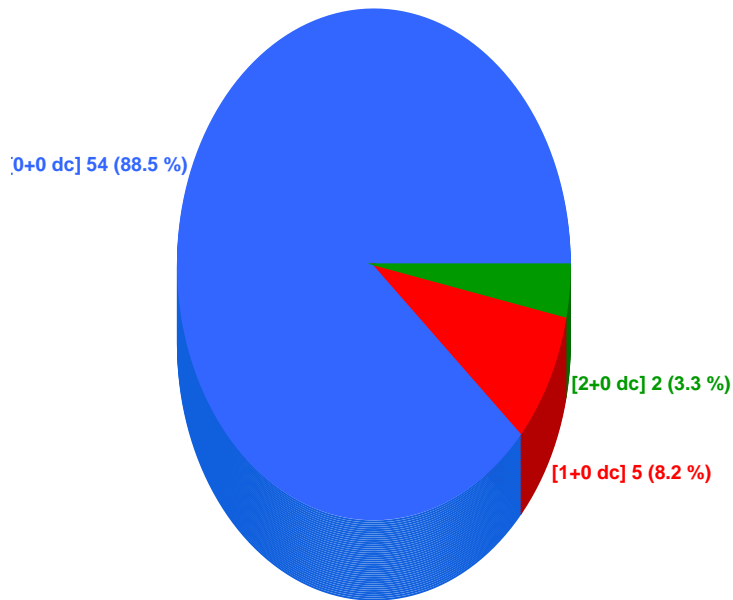
Stave - OL (includes rwk)

94.79 % ok

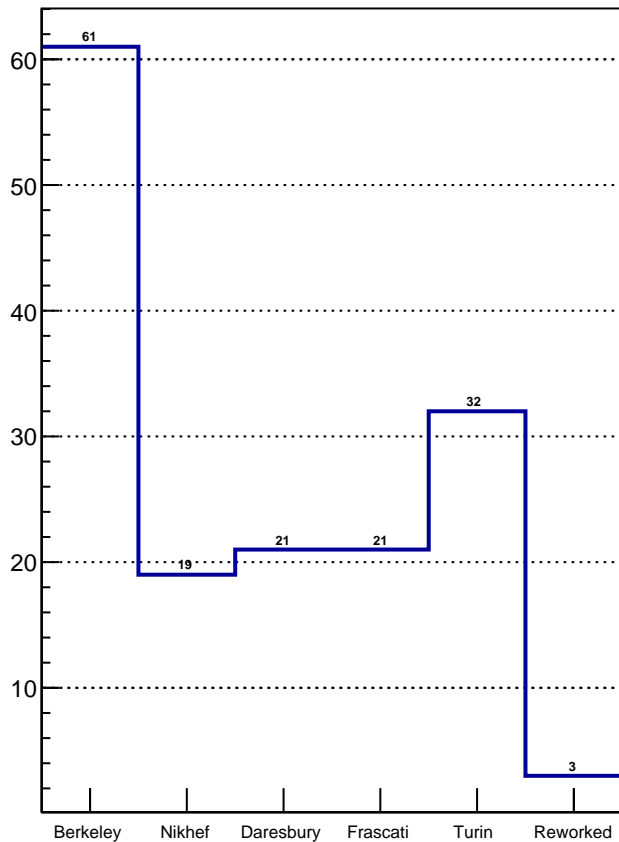


Stave - ML

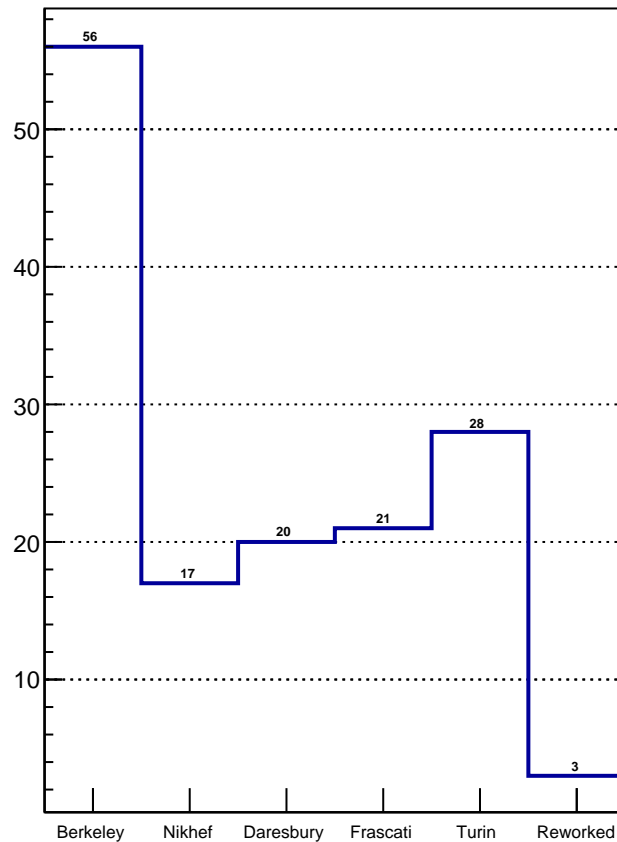
96.72 % ok



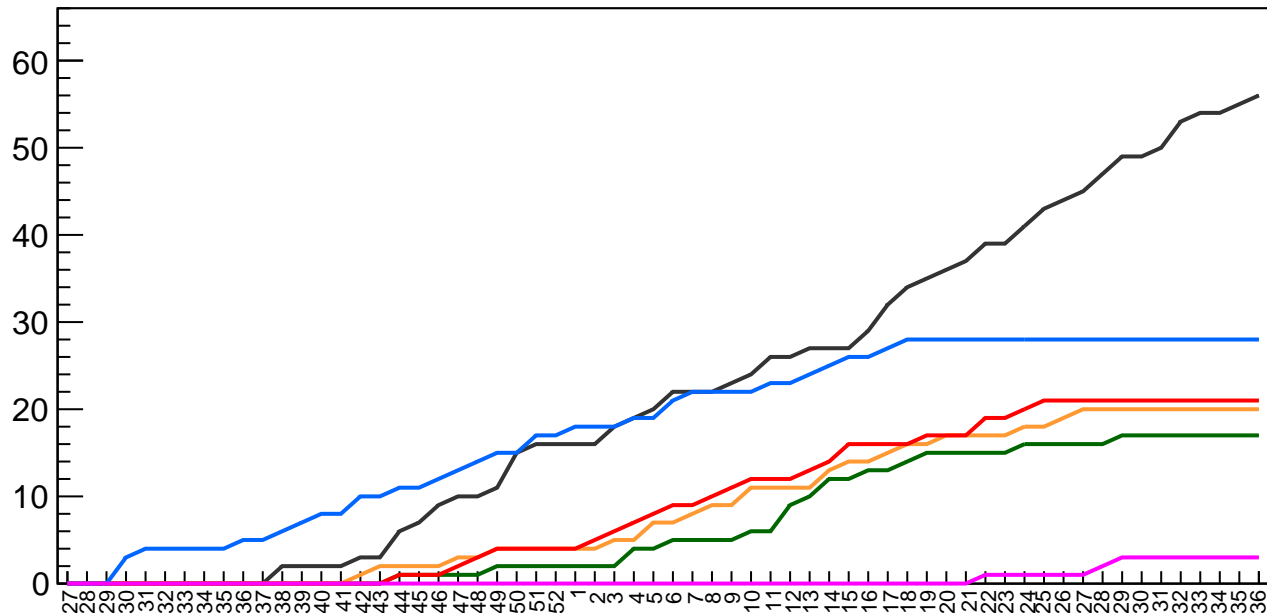
All Stave



Det. Grade Stave



Det. grade Stave vs time



Week

Comparison to prev. week

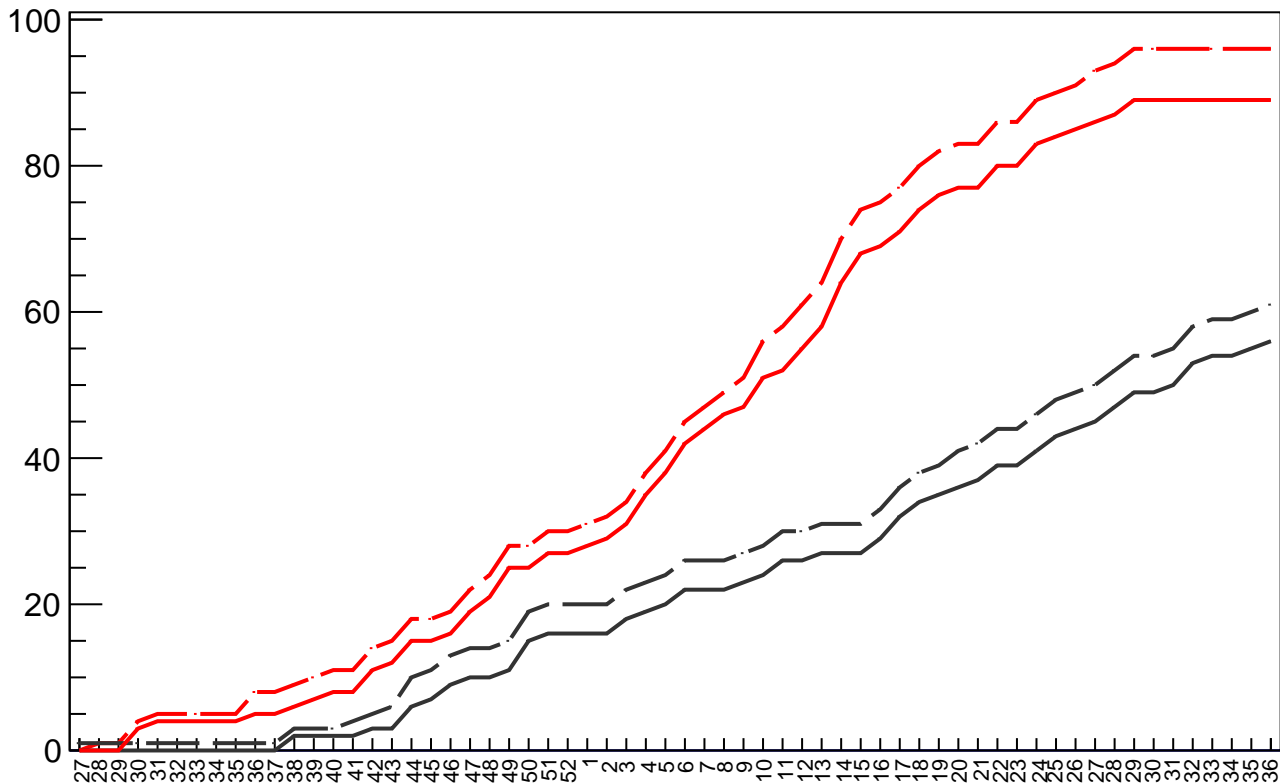
Berkeley:	+1
Nikhef:	+0
Daresbury:	+0
Frascati:	+0
Turin:	+0
Reworked:	+0

Det. grade Stave vs time

ML(all)
OL(all)

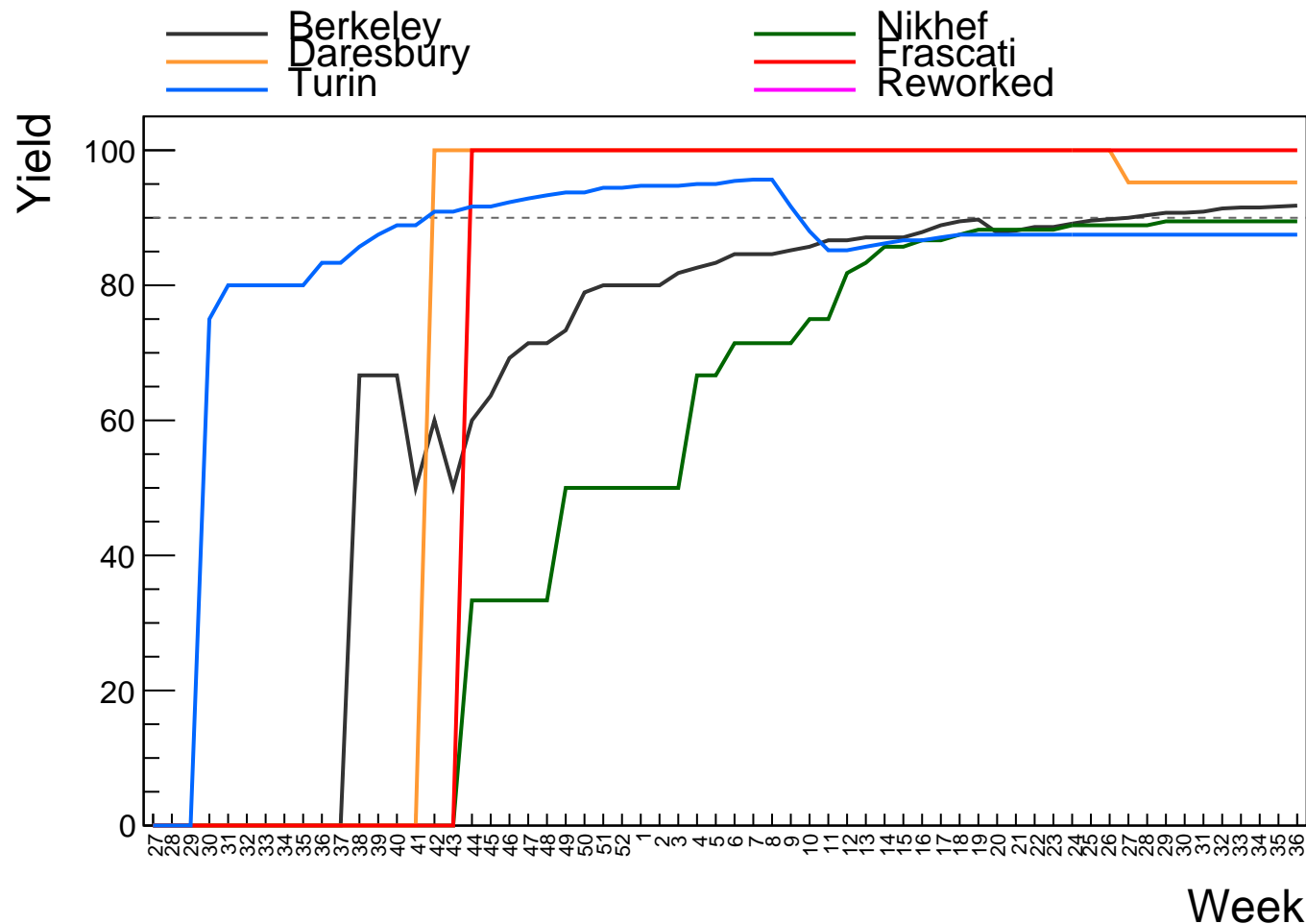
ML(DG)
OL(DG)

#Stave

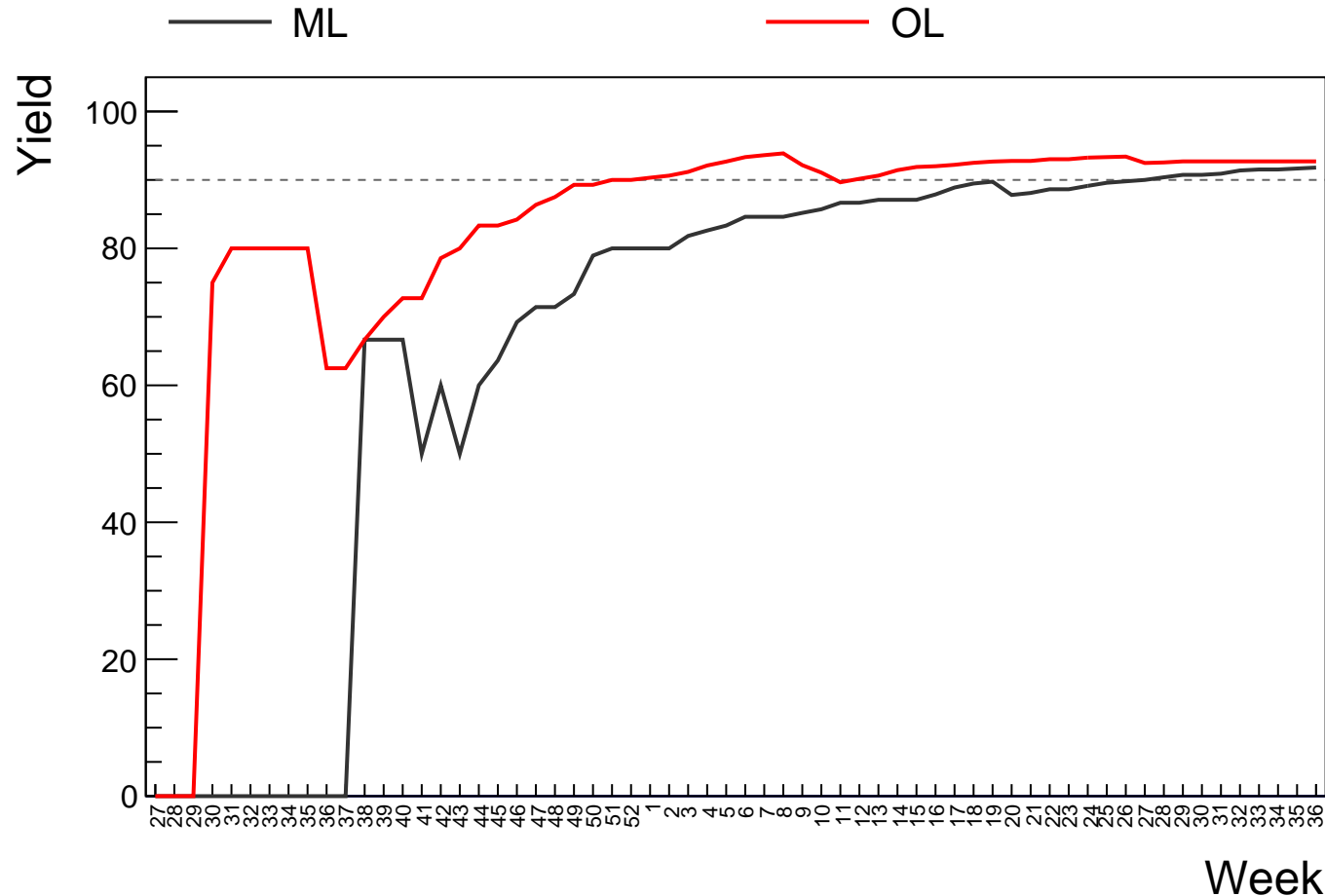


Week

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 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) -- 1.40(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

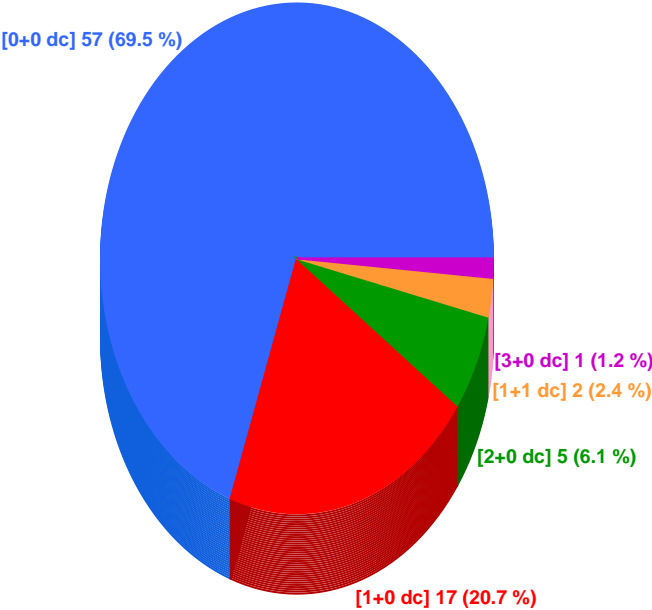
B-ML-Stave-050: (U,L)=(0, 0) bad chips

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

Staves qualified this week

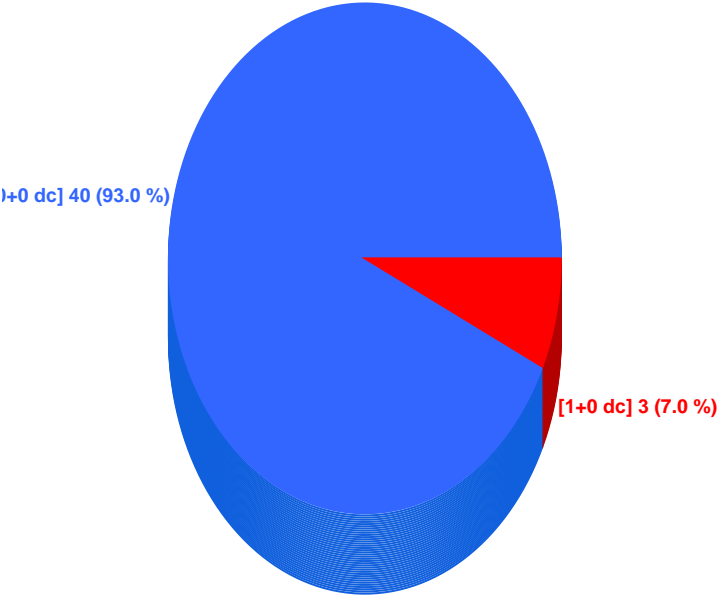
Stave - OL @CERN

98.78 % ok

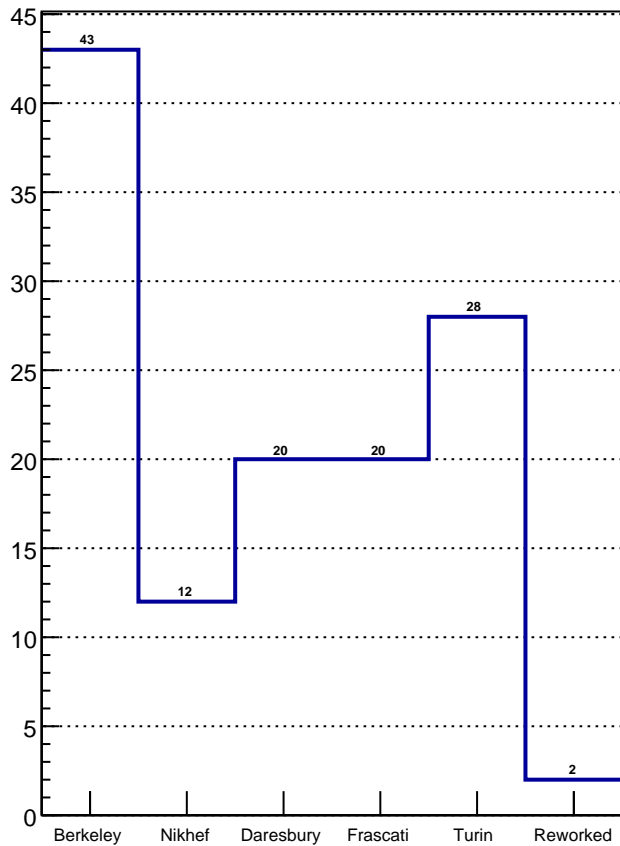


Stave - ML @CERN

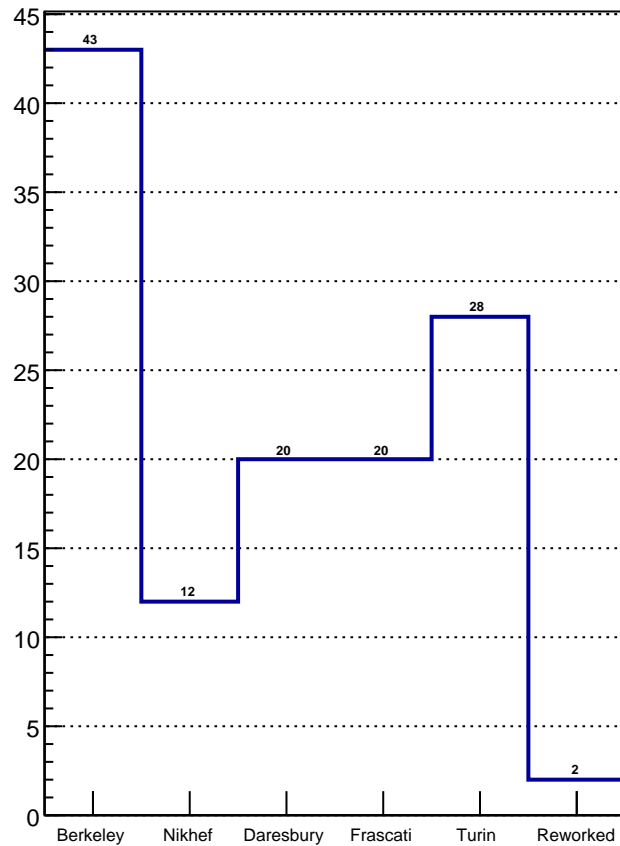
100.00 % ok



All Stave @CERN



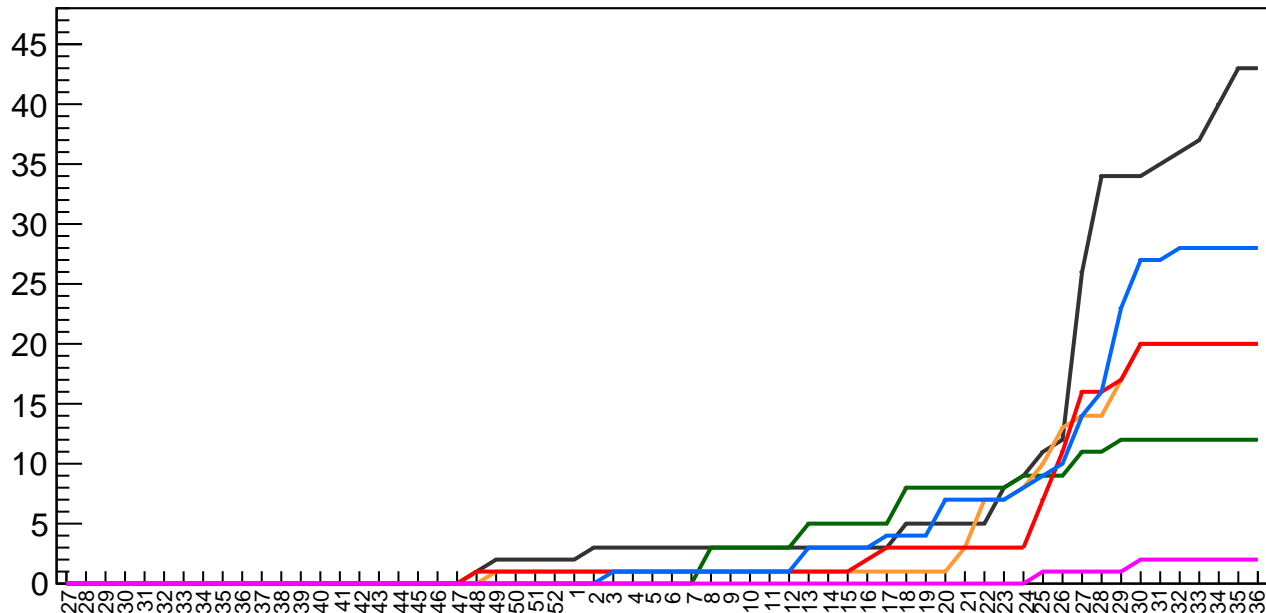
Det. Grade Stave @CERN



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

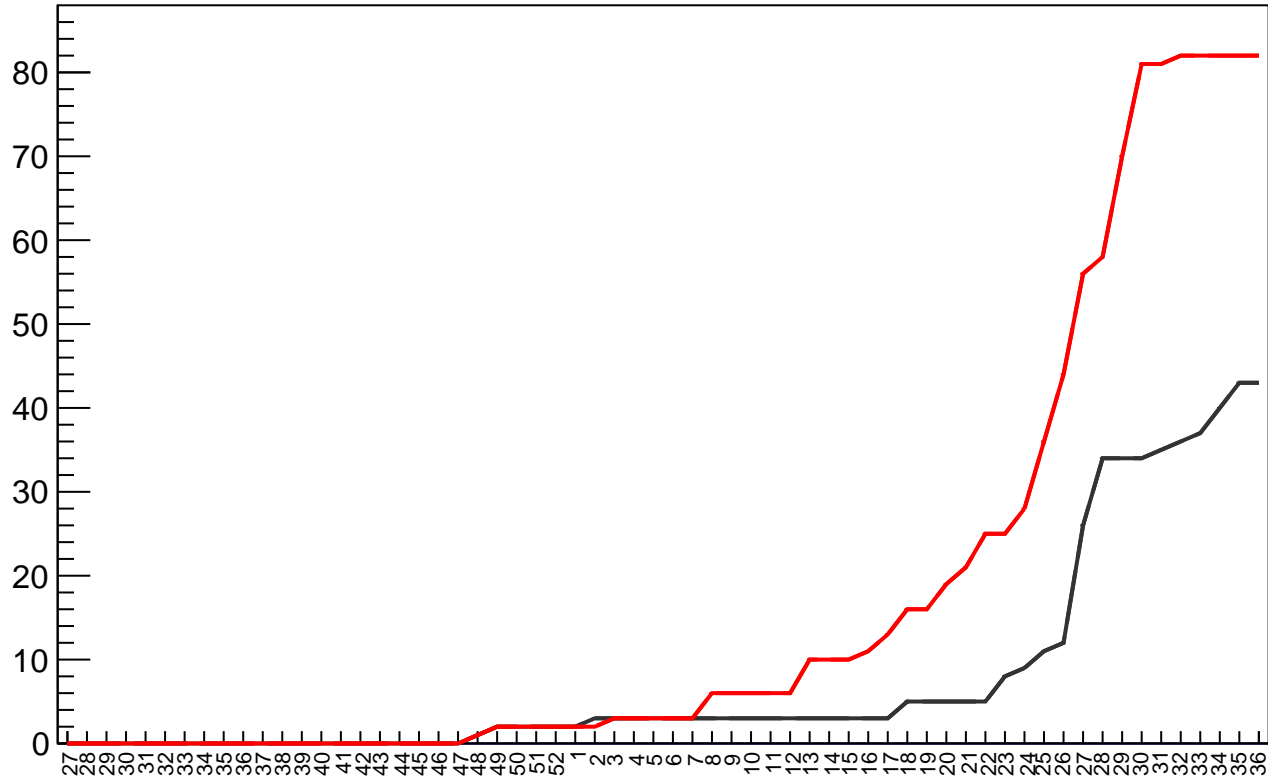
Turin: +0

Det. grade Stave vs time @CERN

— ML(all)
— OL(all)

— ML(DG)
— OL(DG)

#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-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(?)

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