

Stave production monitoring

Ivan Ravasenga, *Politecnico di Torino and I.N.F.N.*

30/03/2019

Monitoring from January 2018 to 30/03/2019

Stave meeting

HS monitoring

HSs of previous week

T-OL-HS-U-031: 1 bad chips

T-OL-HS-L-031: 0 bad chips

F-OL-HS-U-022: -335723766 bad chips

F-OL-HS-L-021: -335723766 bad chips

D-OL-HS-U-016: 0 bad chips

D-OL-HS-L-016: 0 bad chips

A-OL-HS-L-012: 0 bad chips

A-OL-HS-L-011: 2 bad chips

B-ML-HS-U-231: 0 bad chips

HSs of this week

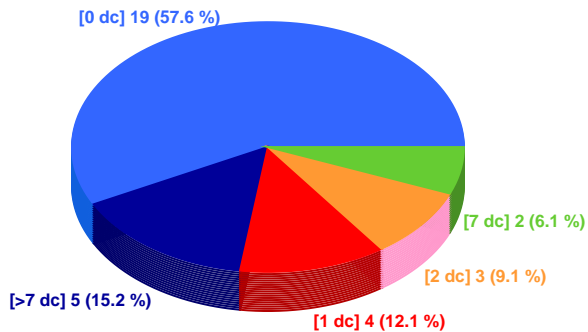
A-OL-HS-U-016: 0 bad chips

B-ML-HS-U-032: 0 bad chips

B-ML-HS-L-032: 1 bad chips

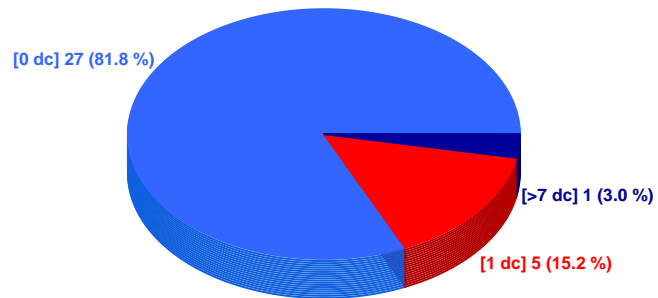
HS - Nikhef

78.79 % ok



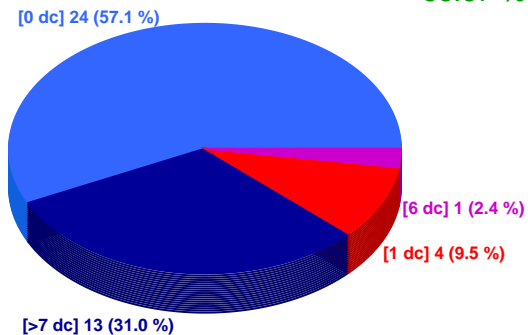
HS - Daresbury

96.97 % ok



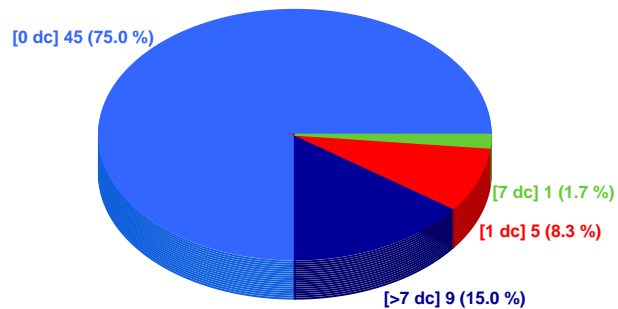
HS - Frascati

66.67 % ok



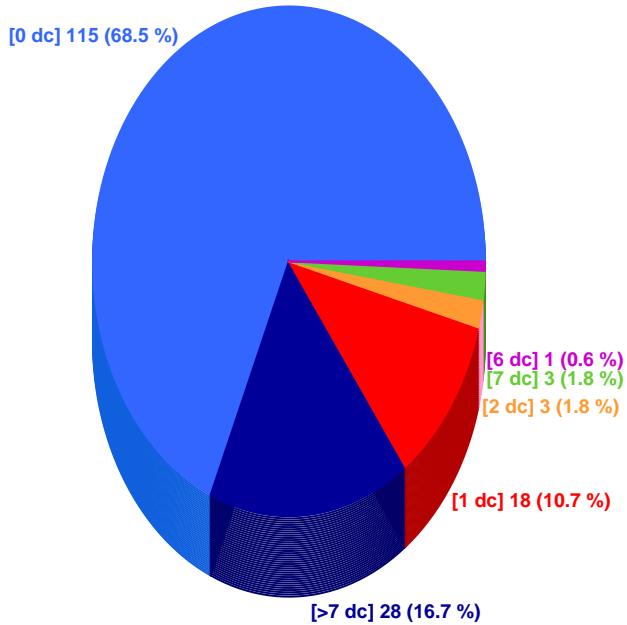
HS - Turin

83.33 % ok



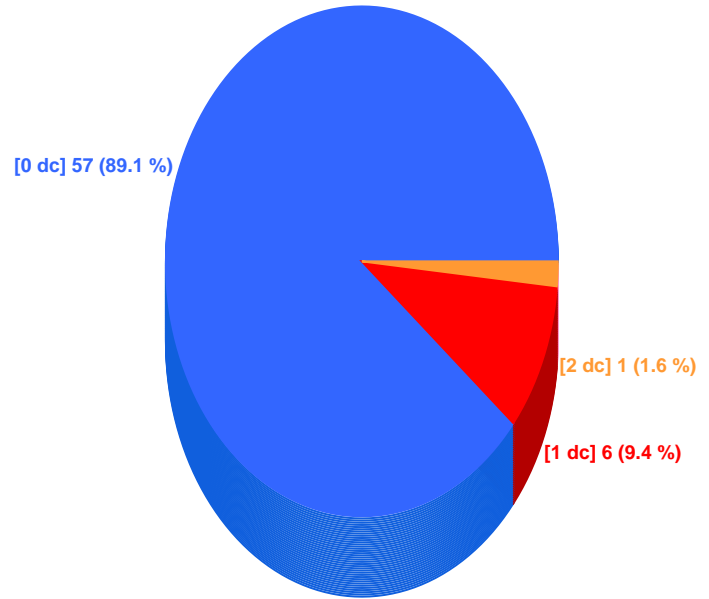
HS - OL

80.95 % ok

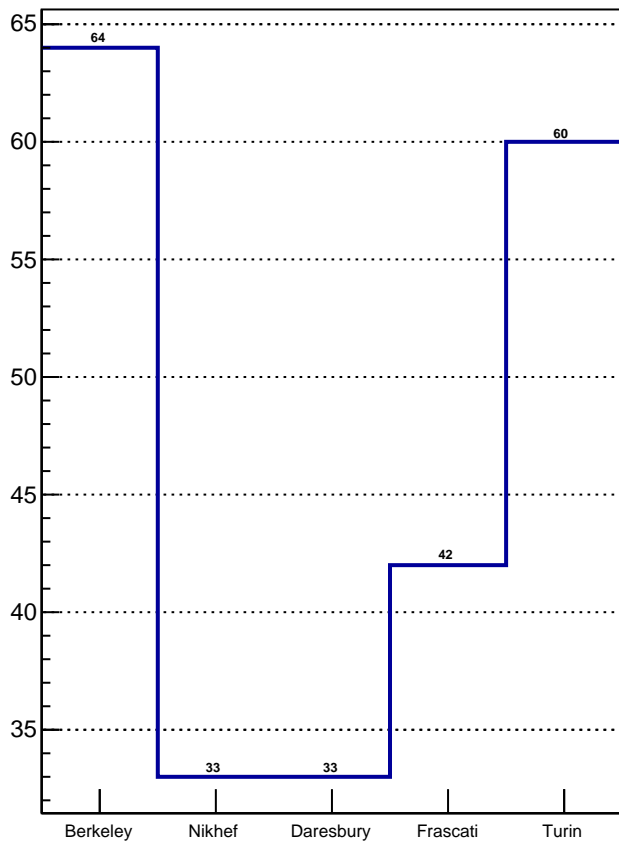


HS - ML

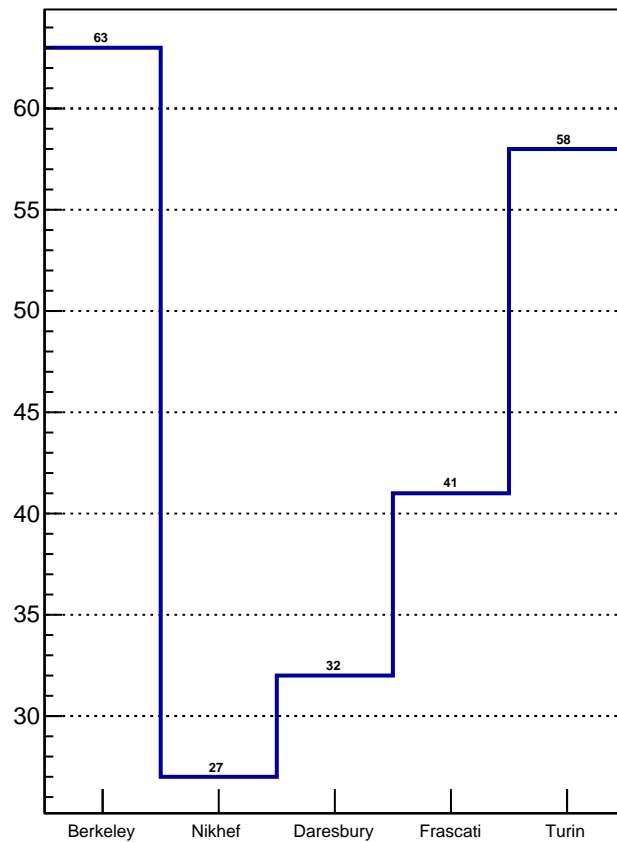
98.44 % ok



All HS



Det. Grade HS

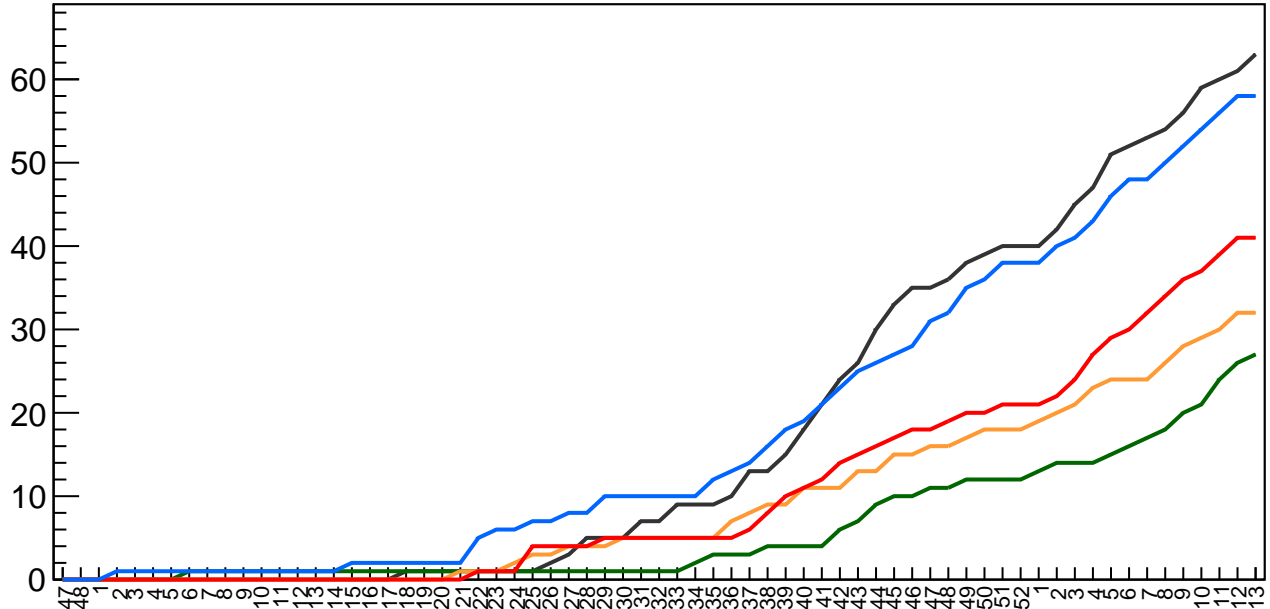


Det. grade HS vs time

Berkeley
 Daresbury
 Turin

Nikhef
 Frascati

#HS



Week

Comparison to prev. week

Berkeley: +2

Nikhef: +1

Daresbury: +0

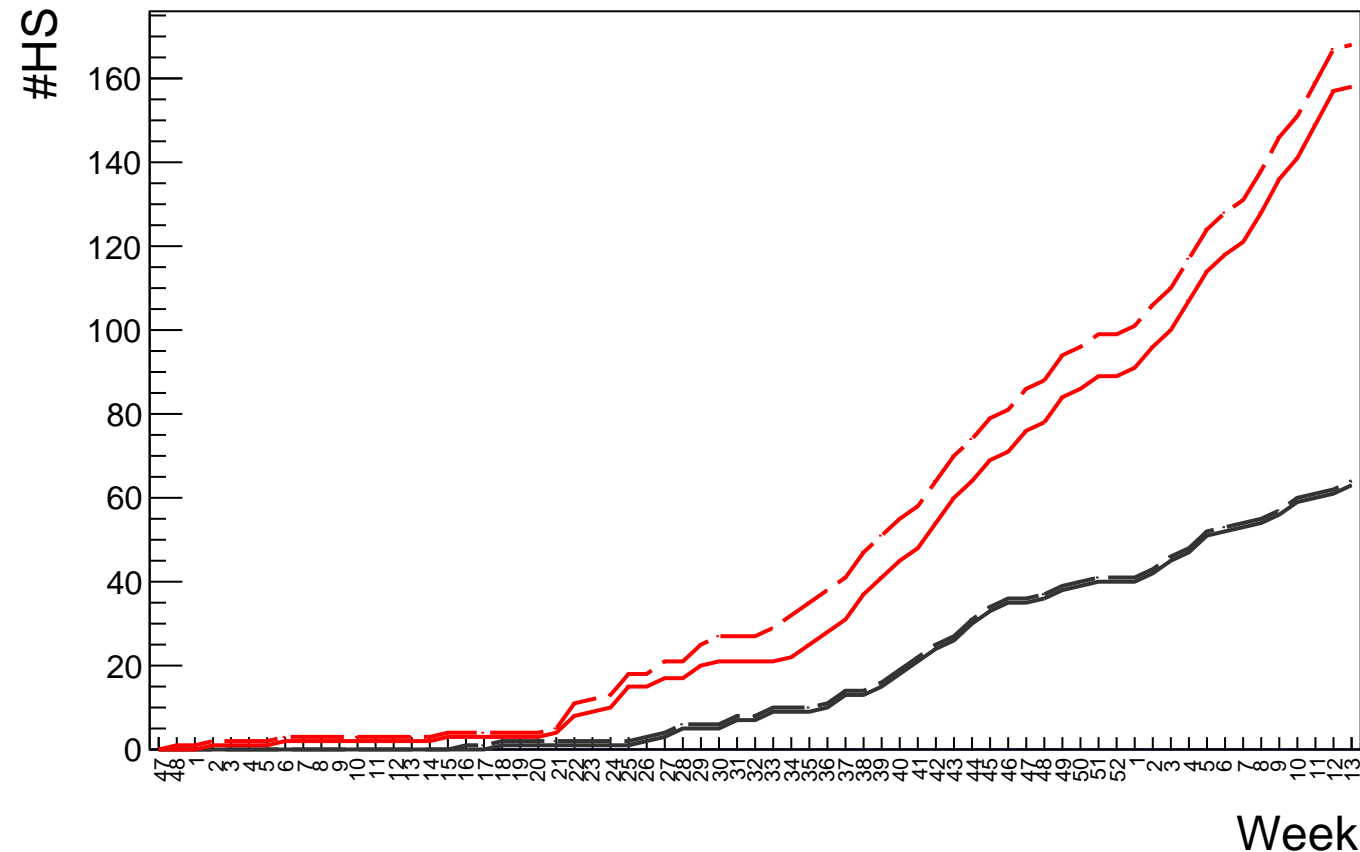
Frascati: +0

Turin: +0

Det. grade HS vs time

ML(all)
OL(all)

ML(DG)
OL(DG)

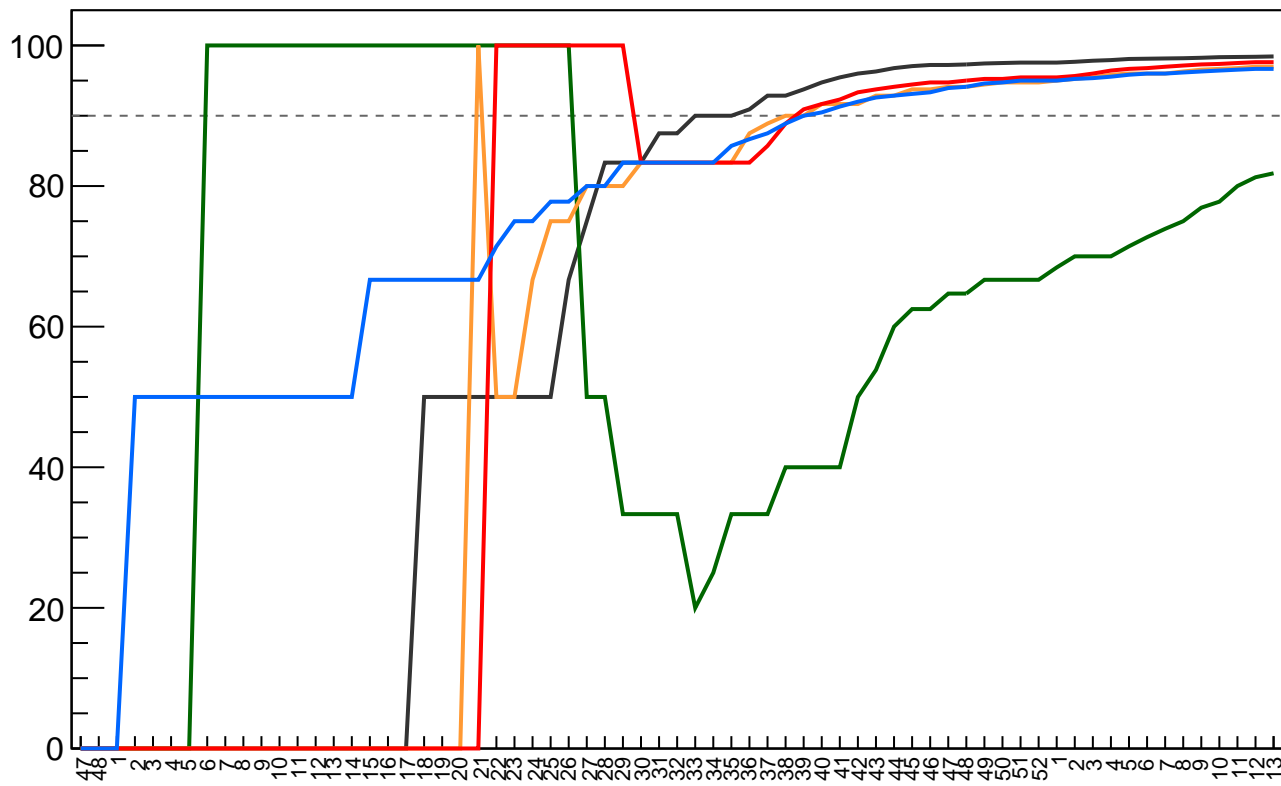


HS Yield vs time

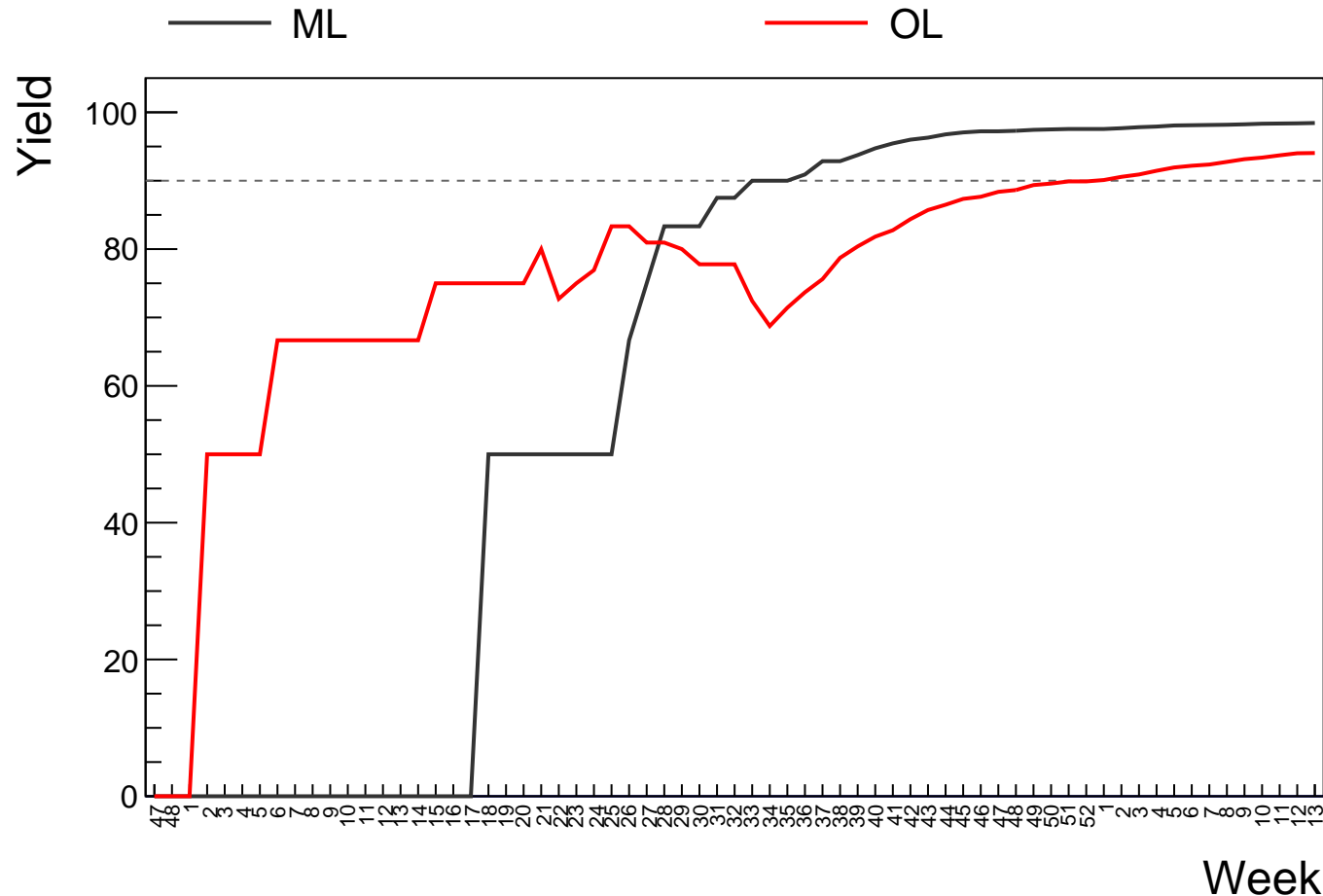
Berkeley
 Daresbury
 Turin

Nikhef
 Frascati

Yield



HS Yield vs time



Stave monitoring

Staves of previous week

A-OL-Stave-014: (U,L)=(0, 0) bad chips

A-OL-Stave-010: (U,L)=(0, 1) bad chips

A-OL-Stave-004: (U,L)=(0, 0) bad chips

Staves of this week

T-OL-Stave-030: (U,L)=(0, 0) bad chips

F-OL-Stave-019: (U,L)=(-393218854, -393218854) bad chips

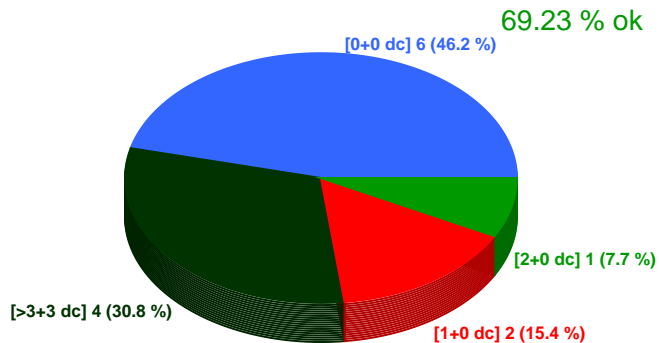
D-OL-Stave-015: (U,L)=(0, 0) bad chips

D-OL-Stave-014: (U,L)=(0, 0) bad chips

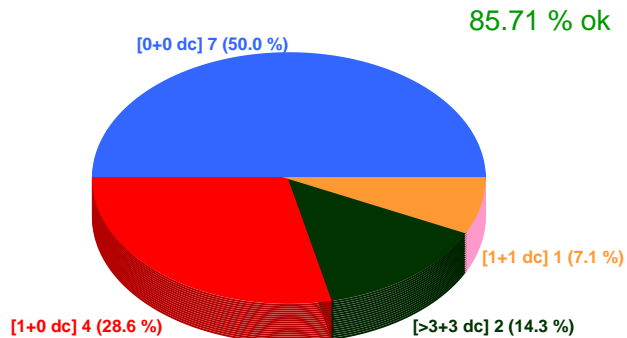
A-OL-Stave-013: (U,L)=(0, 2) bad chips

B-ML-Stave-031: (U,L)=(0, 0) bad chips

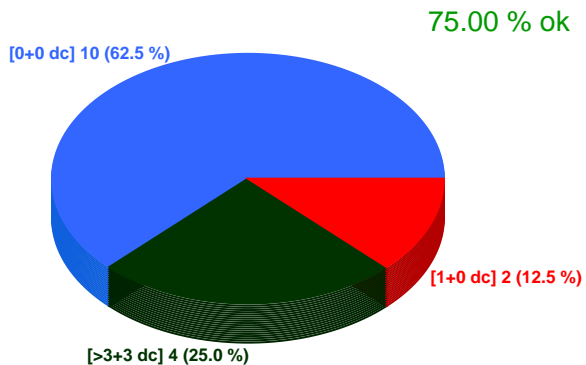
Stave - Nikhef



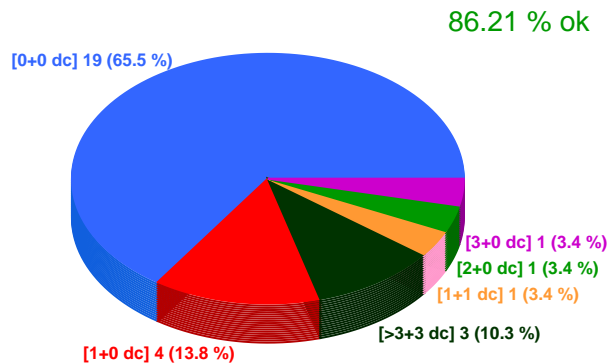
Stave - Daresbury



Stave - Frascati

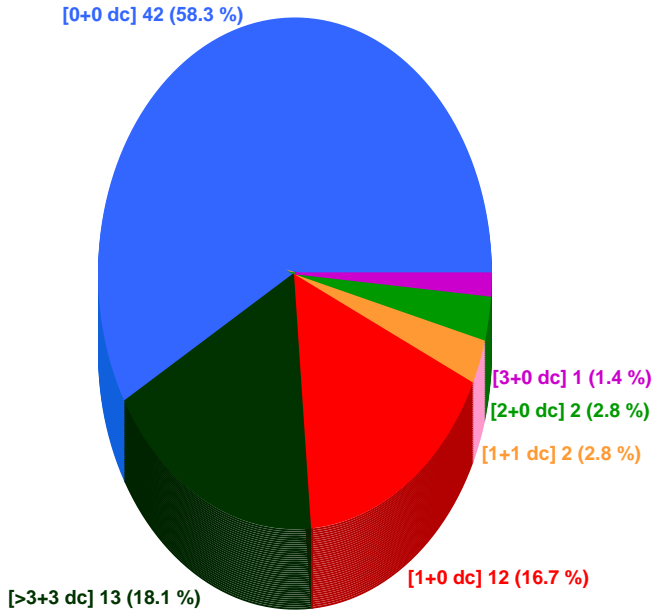


Stave - Turin



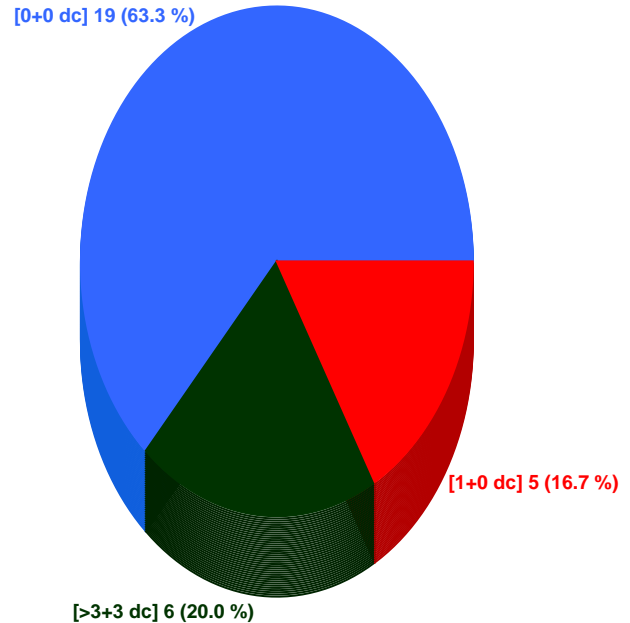
Stave - OL

80.56 % ok

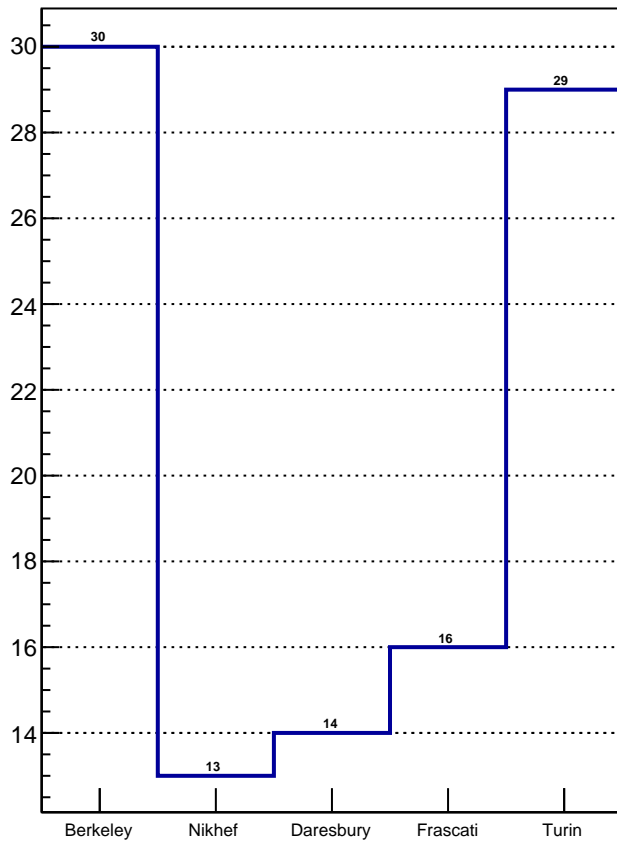


Stave - ML

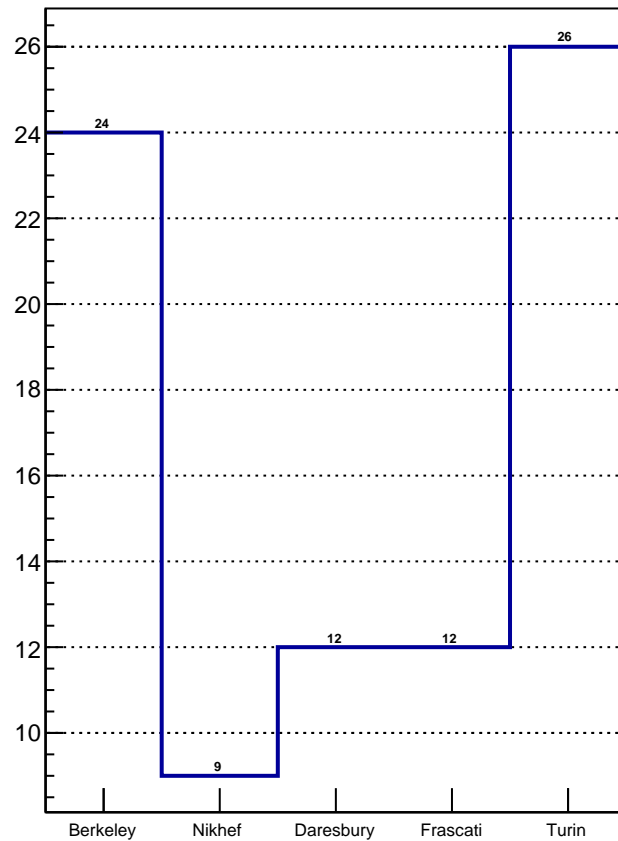
80.00 % ok



All Stave



Det. Grade Stave

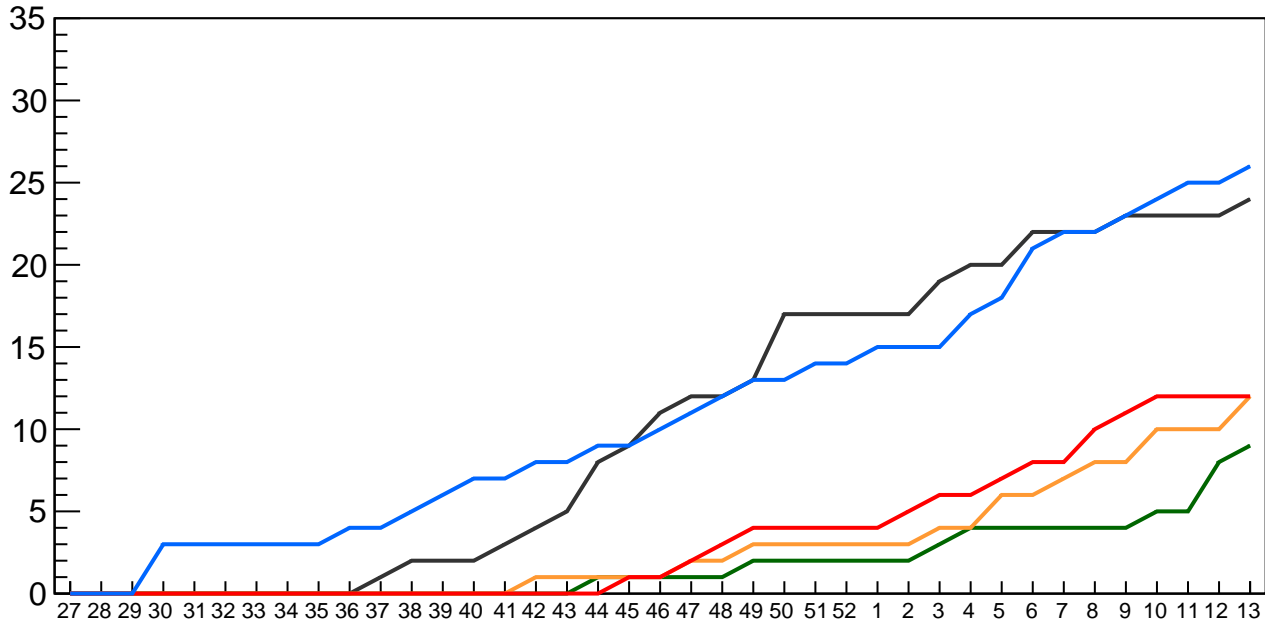


Det. grade Stave vs time

— Berkeley
— Daresbury
— Turin

— Nikhef
— Frascati

#Stave



Week

Comparison to prev. week

Berkeley: +1

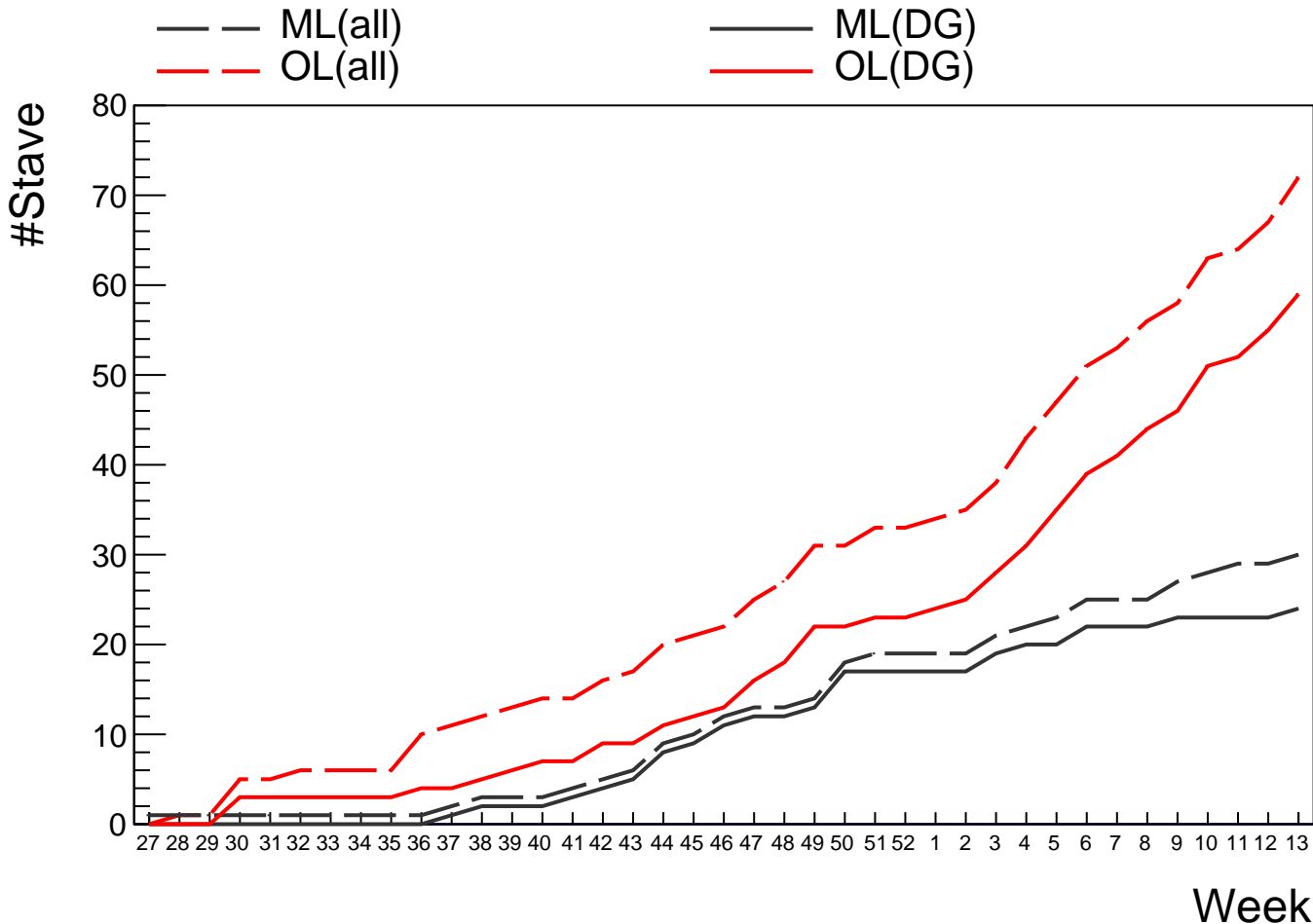
Nikhef: +1

Daresbury: +2

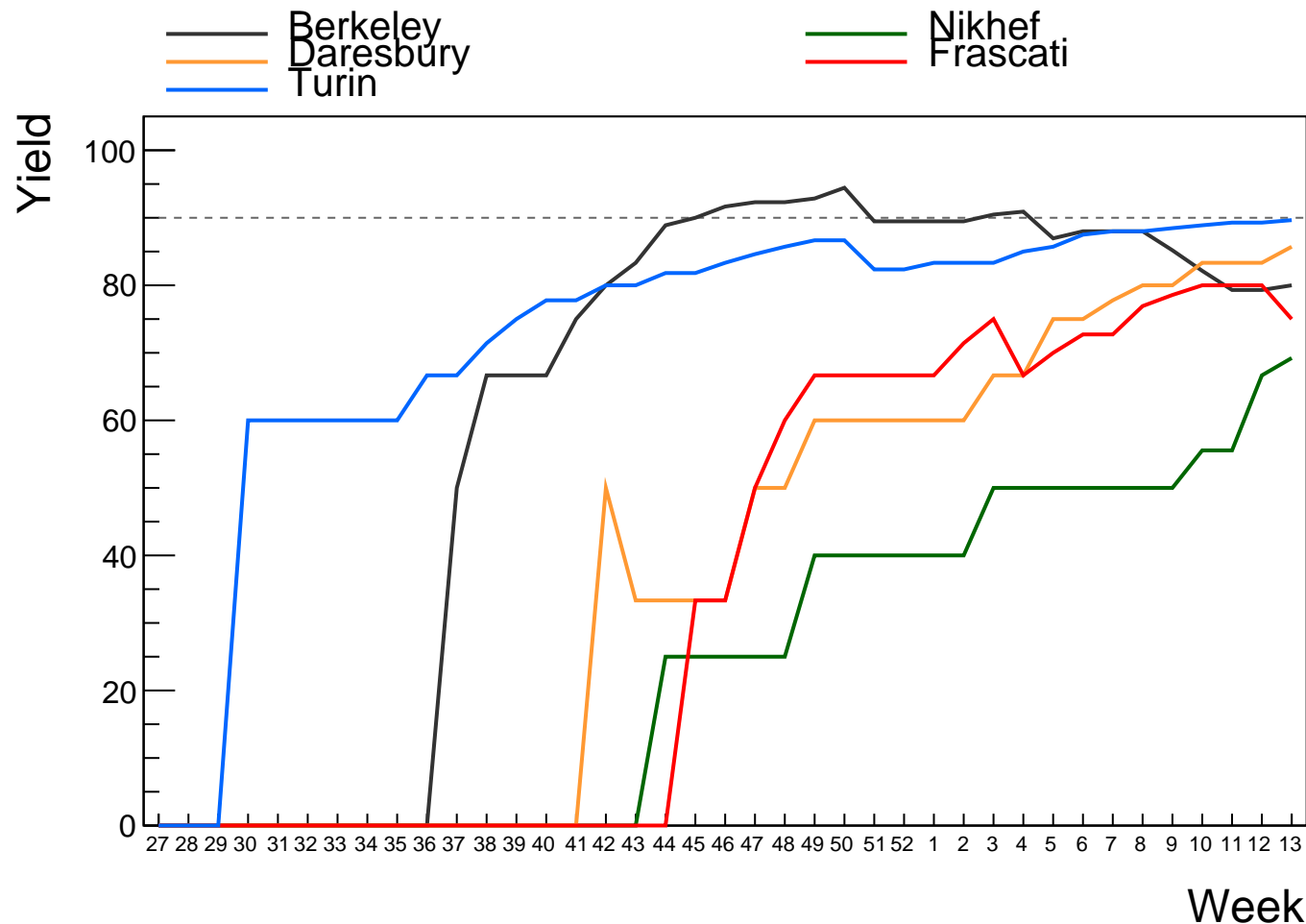
Frascati: +0

Turin: +1

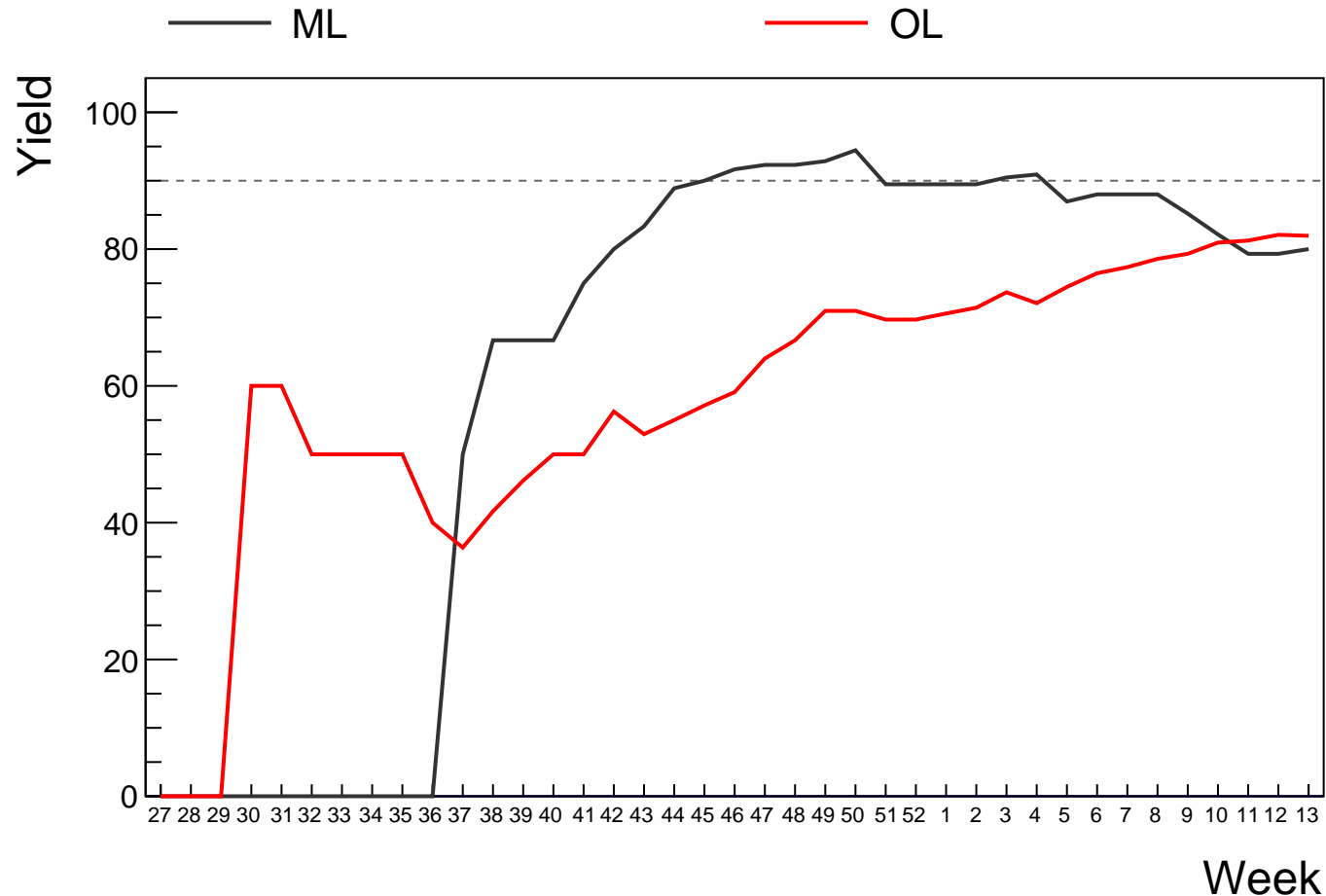
Det. grade Stave vs time



Stave yield vs time



Stave yield vs time



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

Berkeley: 1.13(all) -- 0.91(DG)

Nikhef: 0.39(all) -- 0.35(DG)

Daresbury: 0.48(all) -- 0.43(DG)

Frascati: 0.61(all) -- 0.52(DG)

Turin: 0.83(all) -- 0.78(DG)

OL: 2.30(all) -- 2.09(DG)

ML: 1.13(all) -- 0.91(DG)

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

Stave reception @CERN

Staves qualified in the previous week

F-OL-Stave-015: (U,L)=(0, 0) bad chips

F-OL-Stave-014: (U,L)=(0, 0) bad chips

Staves qualified this week

T-OL-Stave-029: (U,L)=(0, 0)

T-OL-Stave-028: (U,L)=(0, 0)

T-OL-Stave-027: (U,L)=(0, 0)

T-OL-Stave-023: (U,L)=(-390144422, 0)

T-OL-Stave-017: (U,L)=(0, 0)

A-OL-Stave-014: (U,L)=(0, 0)

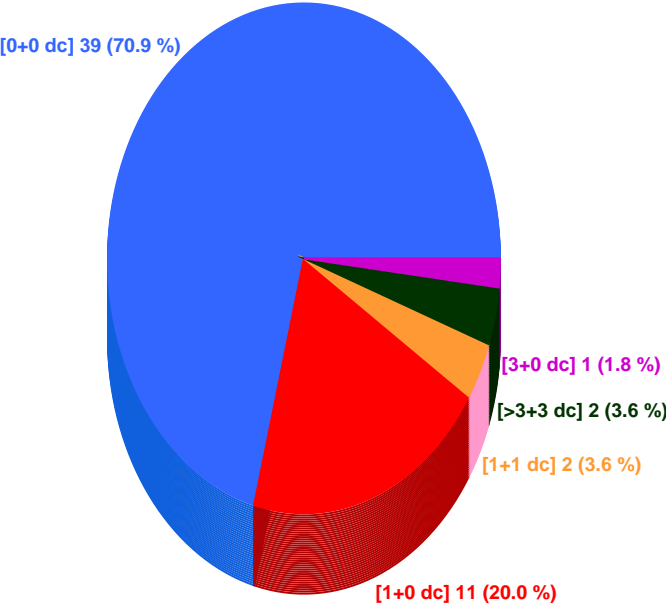
A-OL-Stave-012: (U,L)=(0, 1)

A-OL-Stave-010: (U,L)=(0, 1)

A-OL-Stave-004: (U,L)=(0, 0)

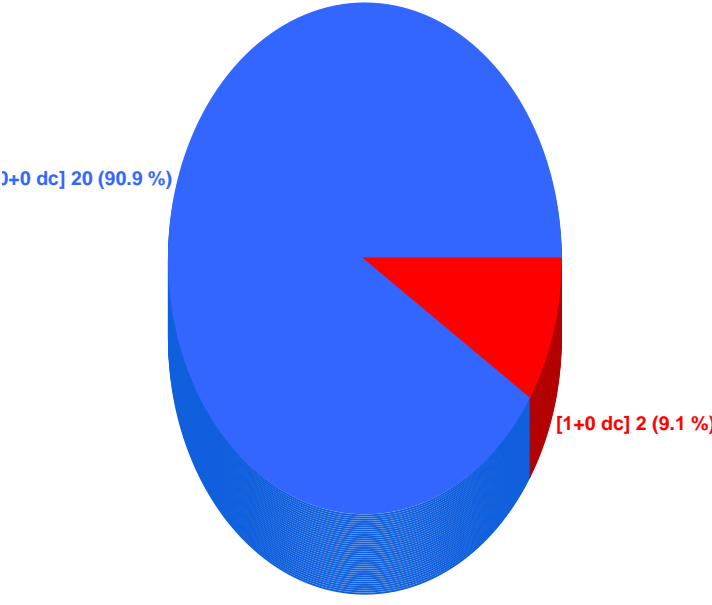
Stave - OL @CERN

94.55 % ok

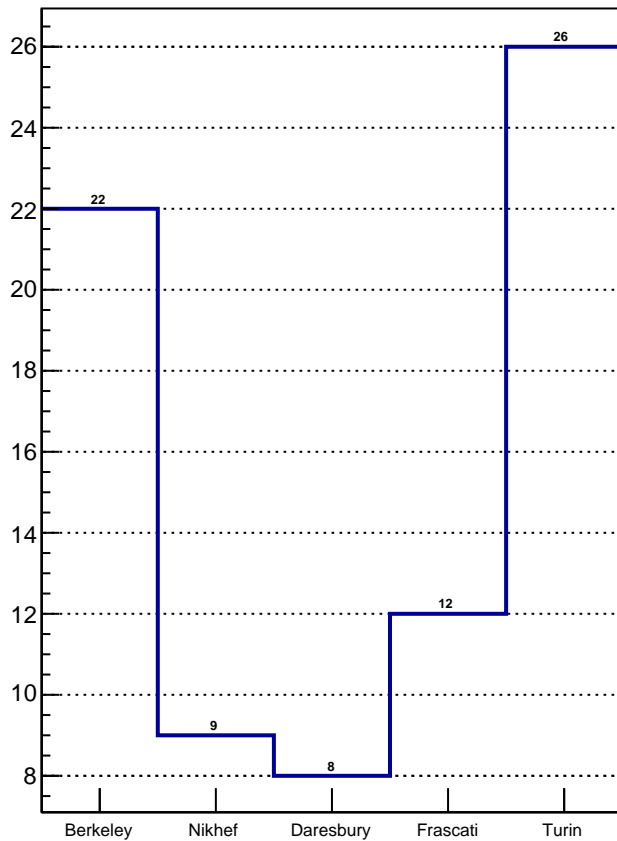


Stave - ML @CERN

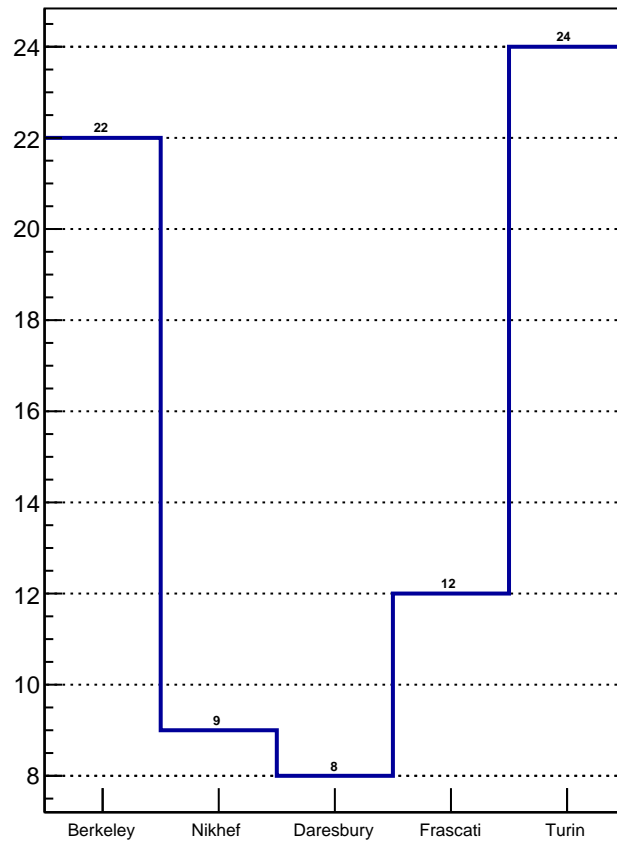
100.00 % ok



All Stave @CERN



Det. Grade Stave @CERN

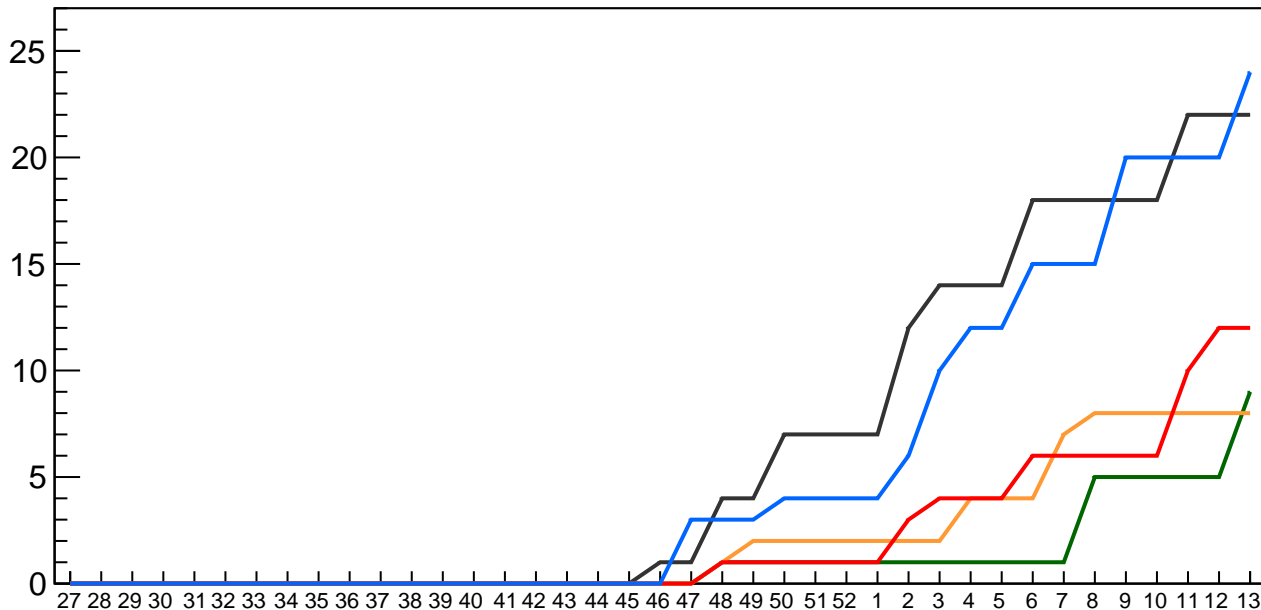


Det. grade Stave vs time @CERN

Berkeley
Daresbury
Turin

Nikhef
Frascati

#Stave



Week

Comparison to prev. week

Berkeley: +0

Nikhef: +4

Daresbury: +0

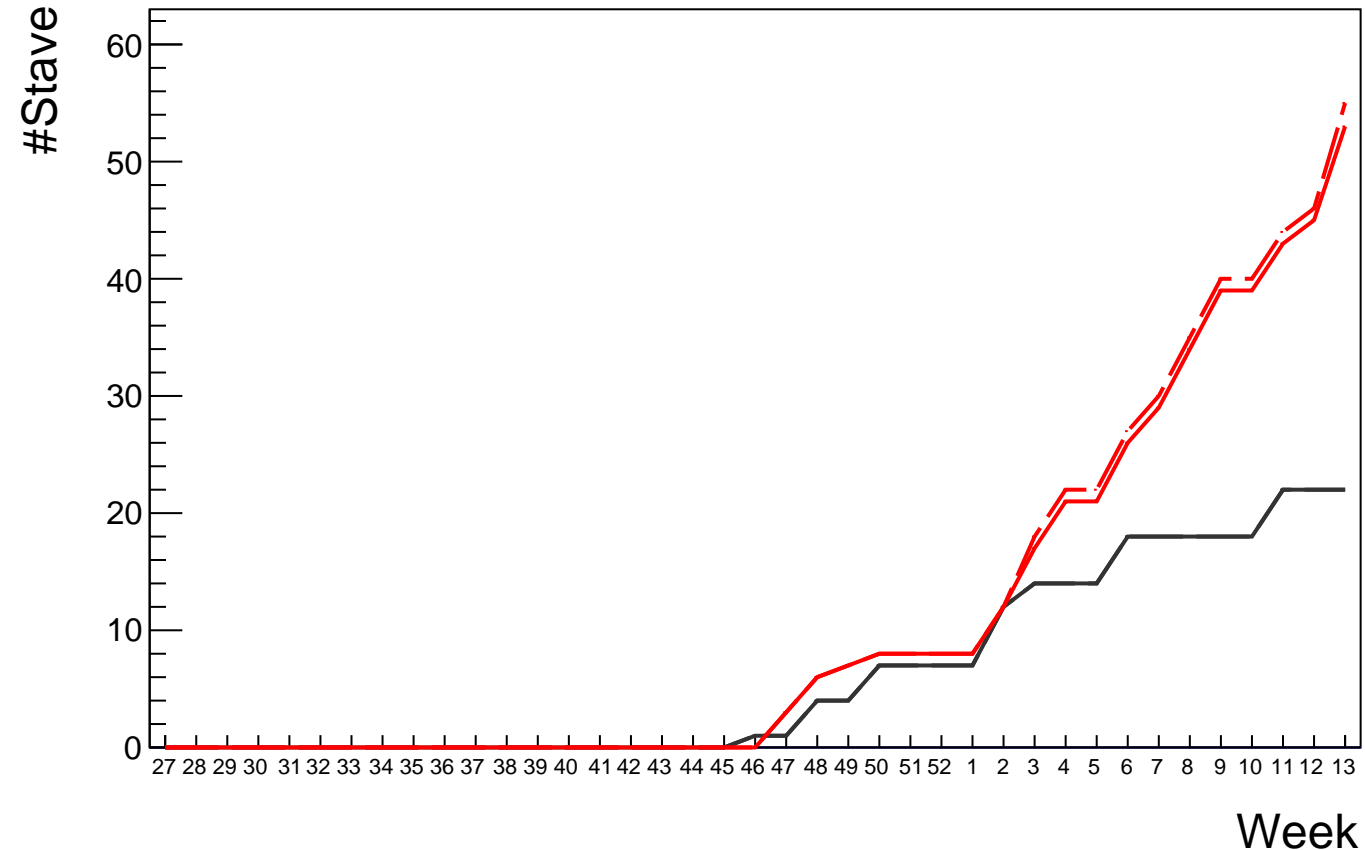
Frascati: +0

Turin: +4

Det. grade Stave vs time @CERN

— ML(all)
— OL(all)

— ML(DG)
— OL(DG)



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

Berkeley: 1.29(all) -- 1.29(DG)

Nikhef: 0.29(all) -- 0.29(DG)

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

Frascati: 0.79(all) -- 0.79(DG)

Turin: 1.29(all) -- 1.21(DG)

OL: 2.86(all) -- 2.79(DG)

ML: 1.29(all) -- 1.29(DG)

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

HS without a Stave

HSs (DG) not yet tested as Stave

D-OL-HS-U-008: 0 bad chips
D-OL-HS-L-010: 0 bad chips
T-OL-HS-U-031: 1 bad chips
T-OL-HS-L-031: 0 bad chips
F-OL-HS-L-002: -335723766 bad chips
F-OL-HS-U-022: -335723766 bad chips
F-OL-HS-U-021: -335723766 bad chips
F-OL-HS-U-020: -335723766 bad chips
F-OL-HS-U-013: 0 bad chips
F-OL-HS-U-005: -47960538 bad chips
F-OL-HS-L-021: -335723766 bad chips
F-OL-HS-L-020: -335723766 bad chips
F-OL-HS-L-013: 1 bad chips
F-OL-HS-L-005: 0 bad chips
D-OL-HS-U-016: 0 bad chips
D-OL-HS-L-016: 0 bad chips
D-OL-HS-L-008: 0 bad chips
A-OL-HS-U-016: 0 bad chips
A-OL-HS-U-013: 1 bad chips
A-OL-HS-U-009: 2 bad chips
A-OL-HS-L-014: 0 bad chips
A-OL-HS-L-013: 0 bad chips
A-OL-HS-L-012: 0 bad chips
A-OL-HS-L-011: 2 bad chips
B-ML-HS-U-032: 0 bad chips
B-ML-HS-U-014: 0 bad chips
B-ML-HS-L-032: 1 bad chips
B-ML-HS-L-014: 0 bad chips

HSs (non-DG) not yet tested as Stave

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

Stave not DG

Staves not DG

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) = (98, 98) bad chips

D-OL-Stave-001: (U,L) = (0, 22) bad chips

F-OL-Stave-001: (U,L) = (43, 14) bad chips

T-OL-Stave-020: (U,L) = (0, -56174122) bad chips

T-OL-Stave-003: (U,L) = (-56174119, -56174120) bad chips

T-OL-Stave-002: (U,L) = (7, 1) bad chips

F-OL-Stave-019: (U,L) = (-393218854, -393218854) bad chips

F-OL-Stave-012: (U,L) = (-56174121, 0) bad chips

F-OL-Stave-008: (U,L) = (-56174122, 0) bad chips

D-OL-Stave-002: (U,L) = (15, 0) bad chips

A-OL-Stave-008: (U,L) = (-56174122, 1) bad chips

B-ML-Stave-030: (U,L) = (-112348244, 0) bad chips

B-ML-Stave-028: (U,L) = (-56174122, 0) bad chips

B-ML-Stave-027: (U,L) = (-112348244, 0) bad chips

B-ML-Stave-024: (U,L) = (-56174122, 0) bad chips

B-ML-Stave-020: (U,L) = (-56174122, 0) bad chips

B-ML-Stave-001: (U,L) = (-224696488, -224696488) bad chips