Stave production monitoring

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

18/04/2019

Monitoring from January 2018 to 18/04/2019

Stave meeting

HS monitoring

HSs of previous week

T-OL-HS-U-033: 0 bad chips
T-OL-HS-L-033: 0 bad chips
D-OL-HS-L-210: 0 bad chips
B-ML-HS-U-034: 0 bad chips
B-ML-HS-U-033: 0 bad chips
B-ML-HS-L-034: 0 bad chips
B-ML-HS-L-033: 0 bad chips

HSs of this week

T-OL-HS-U-034: 0 bad chips
F-OL-HS-L-022: 0 bad chips
D-OL-HS-U-018: 0 bad chips
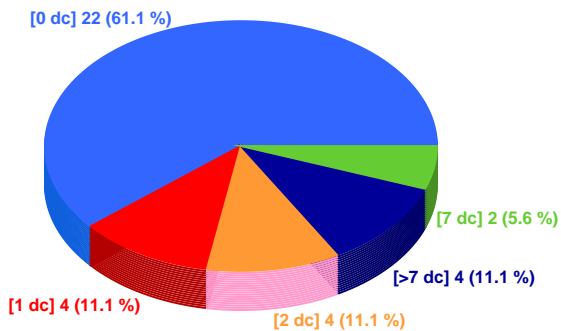**D-OL-HS-L-018: 0 bad chips**
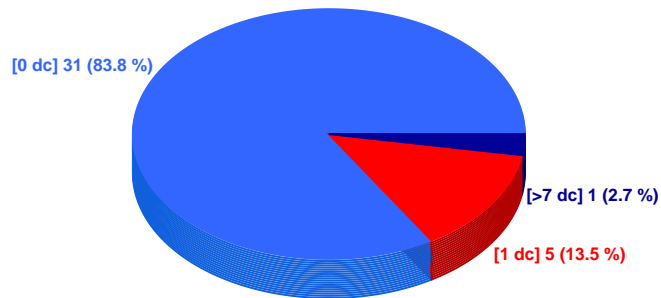**A-OL-HS-U-109: 2 bad chips**
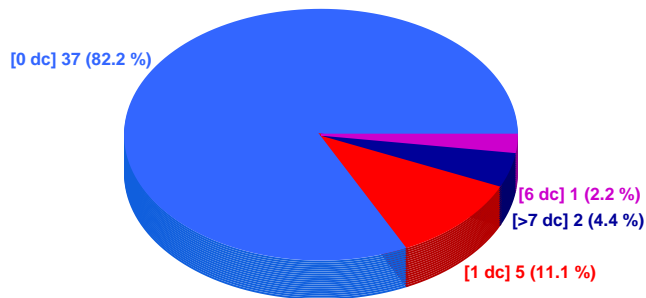**B-ML-HS-U-035: 0 bad chips**

HS - Nikhef

83.33 % ok
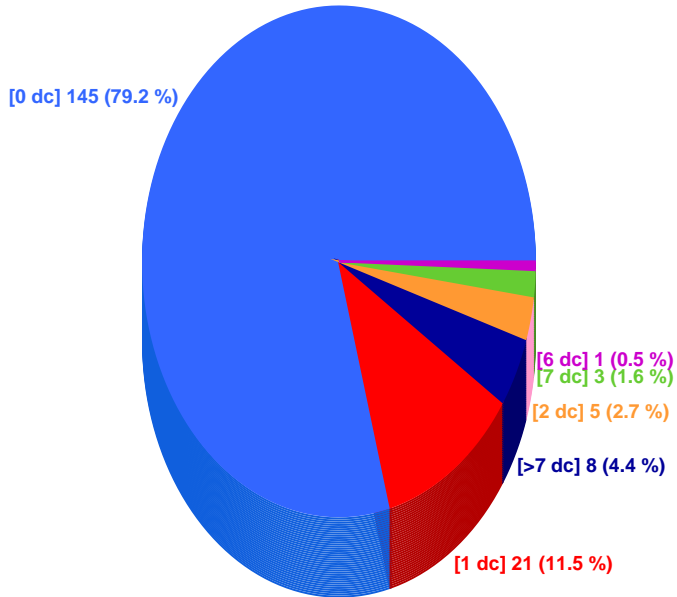
[0 dc] 22 (61.1 %)
[7 dc] 2 (5.6 %)
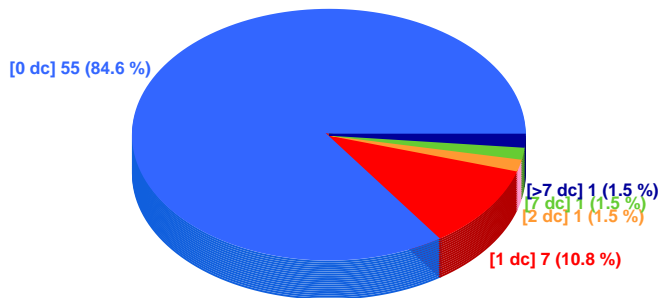[>7 dc] 4 (11.1 %)
[2 dc] 4 (11.1 %)
[1 dc] 4 (11.1 %)

HS - Daresbury

97.30 % ok

[0 dc] 31 (83.8 %)
[>7 dc] 1 (2.7 %)
[1 dc] 5 (13.5 %)

HS - Frascati

93.33 % ok

[0 dc] 37 (82.2 %)
[6 dc] 1 (2.2 %)
[>7 dc] 2 (4.4 %)
[1 dc] 5 (11.1 %)

HS - Turin

96.92 % ok

[0 dc] 55 (84.6 %)
[>7 dc] 1 (1.5 %)
[7 dc] 1 (1.5 %)
[2 dc] 1 (1.5 %)
[1 dc] 7 (10.8 %)

HS - OL

HS - ML

93.44 % ok

98.55 % ok

[0 dc] 145 (79.2 %)

[6 dc] 1 (0.5 %)
[7 dc] 3 (1.6 %)
[2 dc] 5 (2.7 %)

[>7 dc] 8 (4.4 %)

[1 dc] 21 (11.5 %)

[0 dc] 62 (89.9 %)

[2 dc] 1 (1.4 %)

[1 dc] 6 (8.7 %)

All HS

Berkeley	Nikhef	Daresbury	Frascati	Turin
69	36	37	45	65

Det. Grade HS

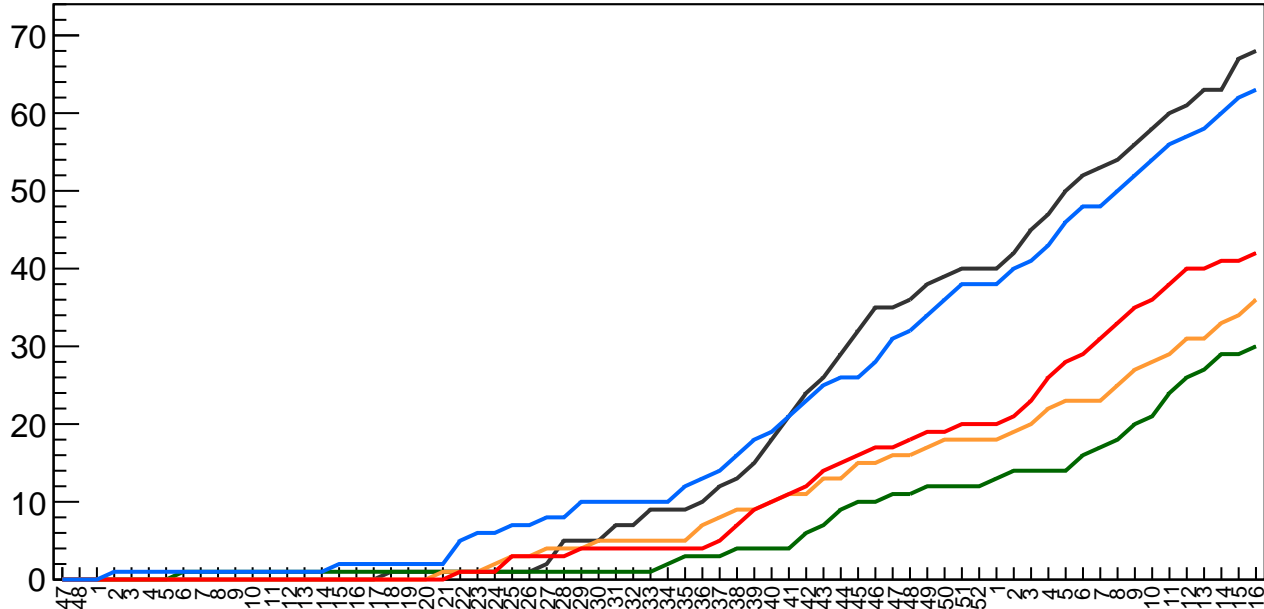| Berkeley	Nikhef	Daresbury	Frascati	Turin
68	30	36	42	63
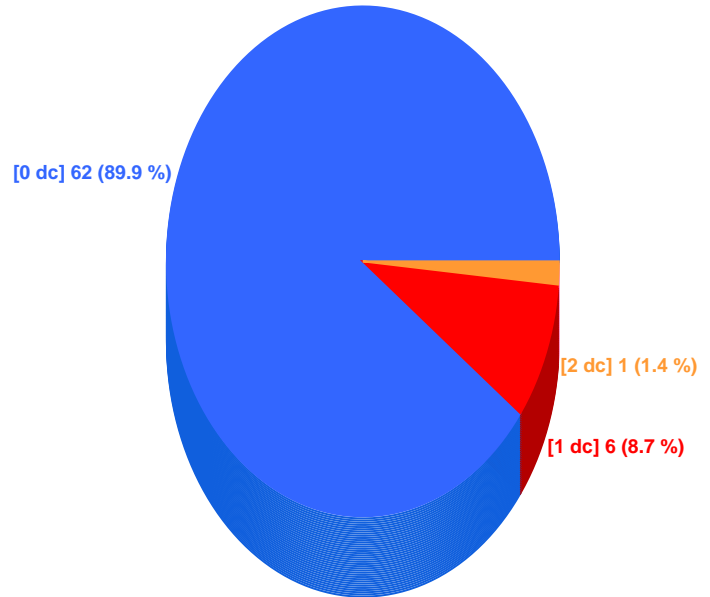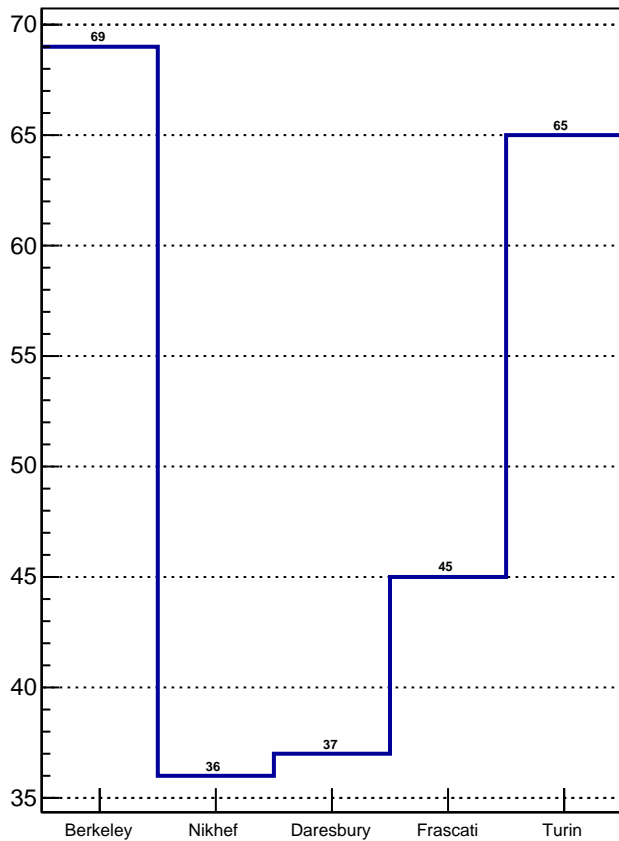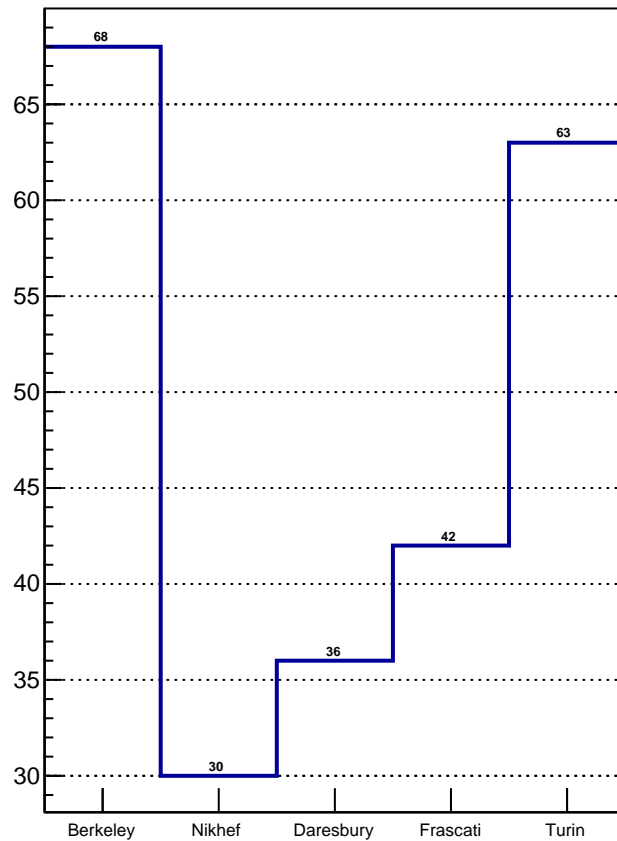
Det. grade HS vs time

Legend: Berkeley, Daresbury, Turin, Nikhef, Frascati

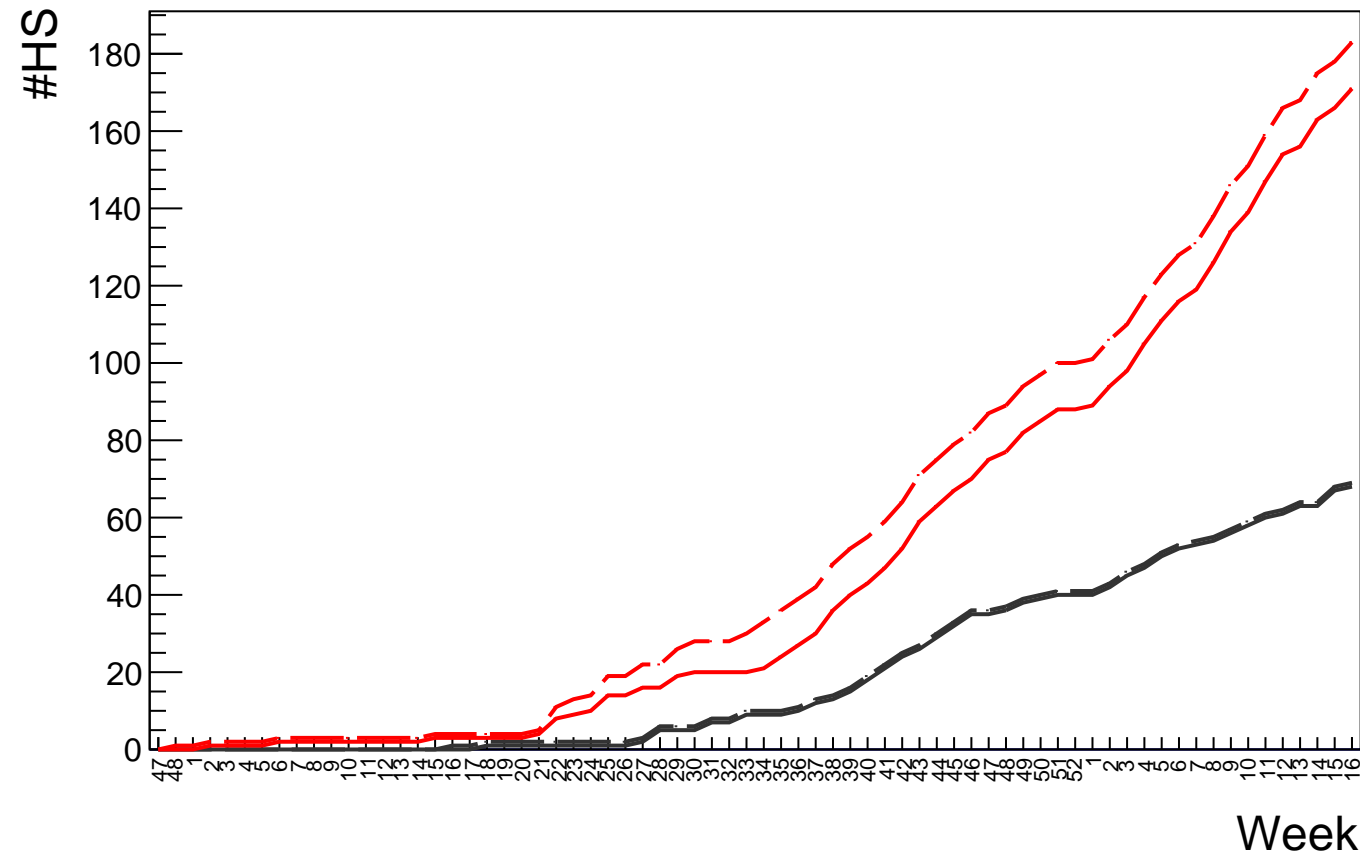Comparison to prev. week

Berkeley: +1

Nikhef: +1

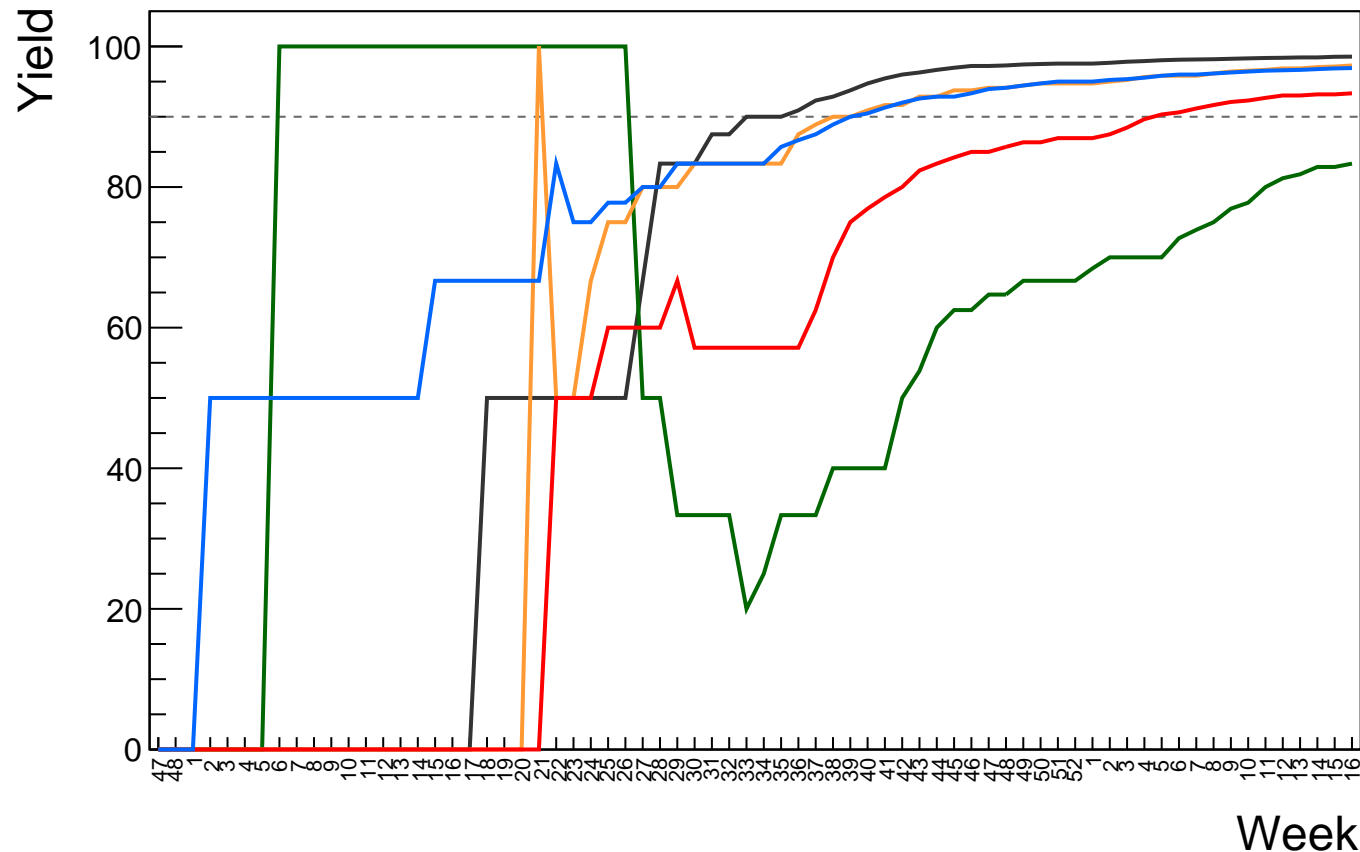Daresbury: +2

Frascati: +1

Turin: +1

Det. grade HS vs time

HS Yield vs time

HS Yield vs time
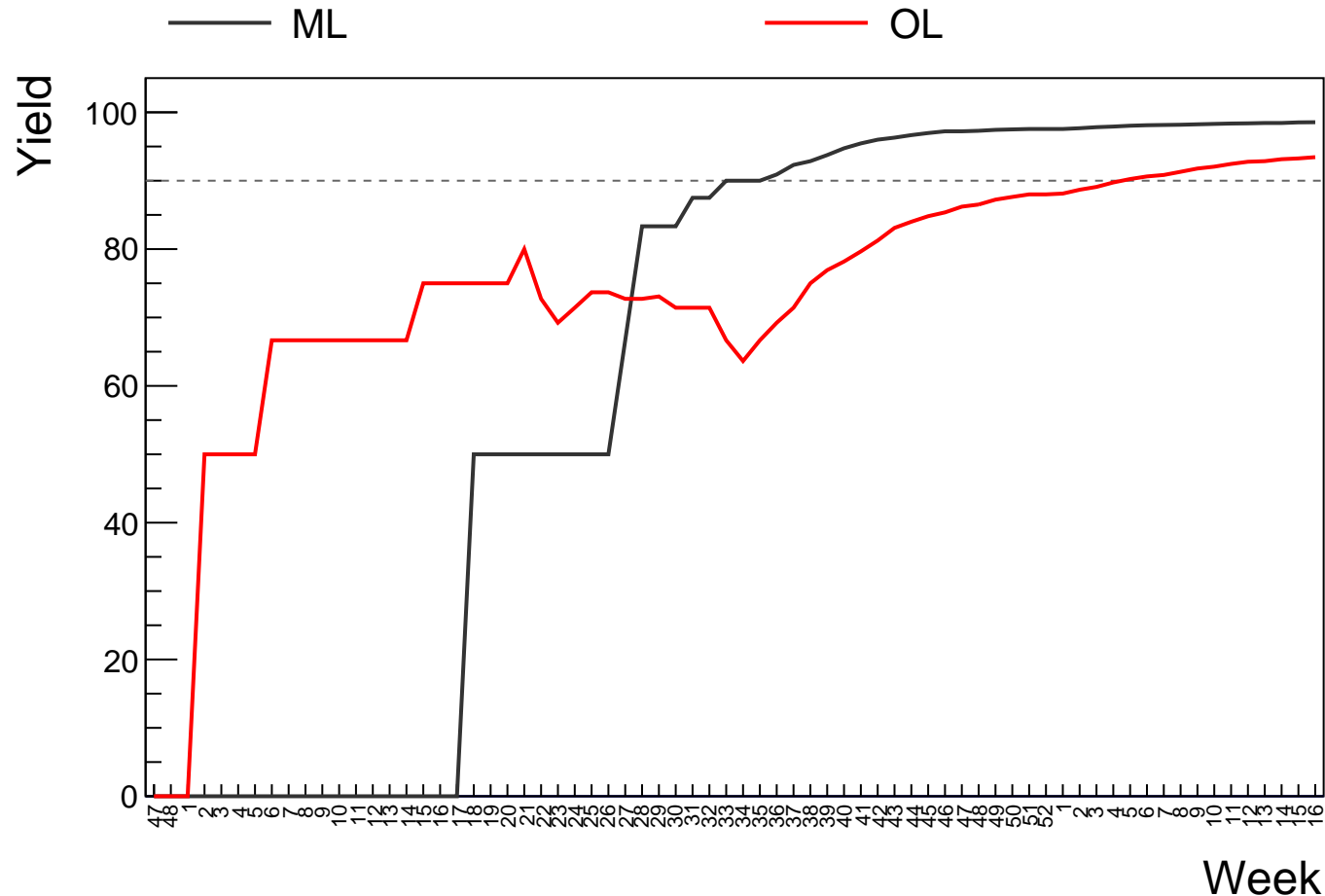
Stave monitoring

Staves of previous week

T-OL-Stave-032: (U,L)=(0, 0) bad chips
F-OL-Stave-020: (U,L)=(0, 0) bad chips
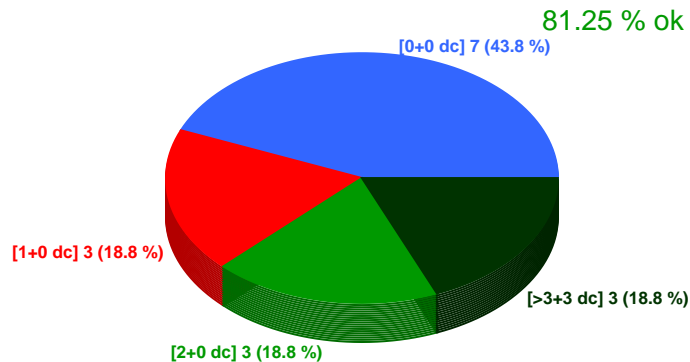**F-OL-Stave-016: (U,L)=(0, 0) bad chips**
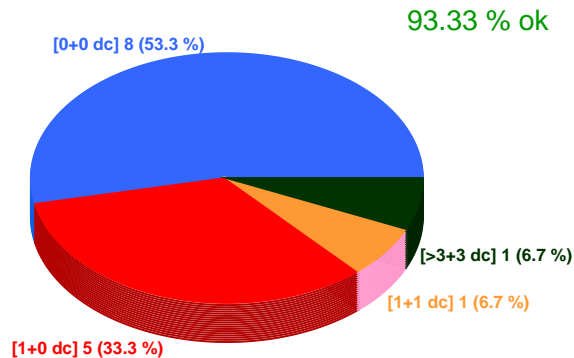**D-OL-Stave-016: (U,L)=(0, 0) bad chips**

Staves of this week

A-OL-Stave-016: (U,L)=(0, 0) bad chips
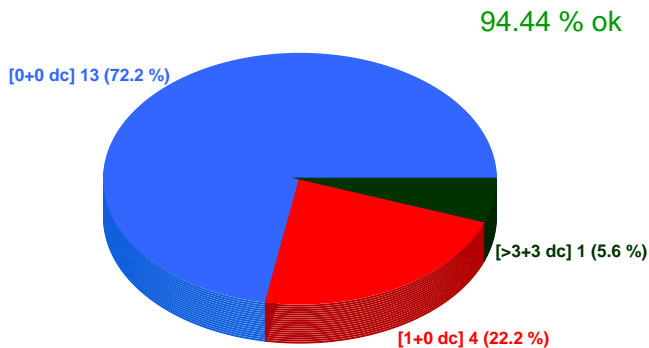**B-ML-Stave-033: (U,L)=(0, 0) bad chips**

Stave - Nikhef

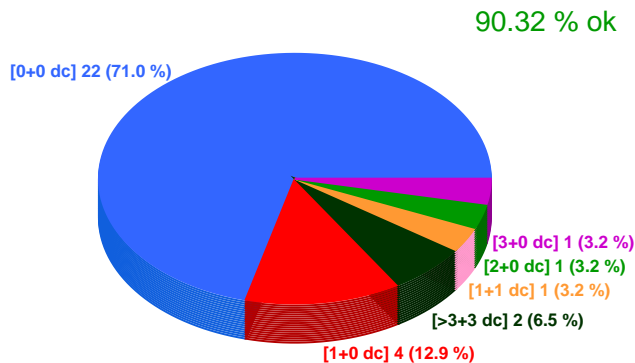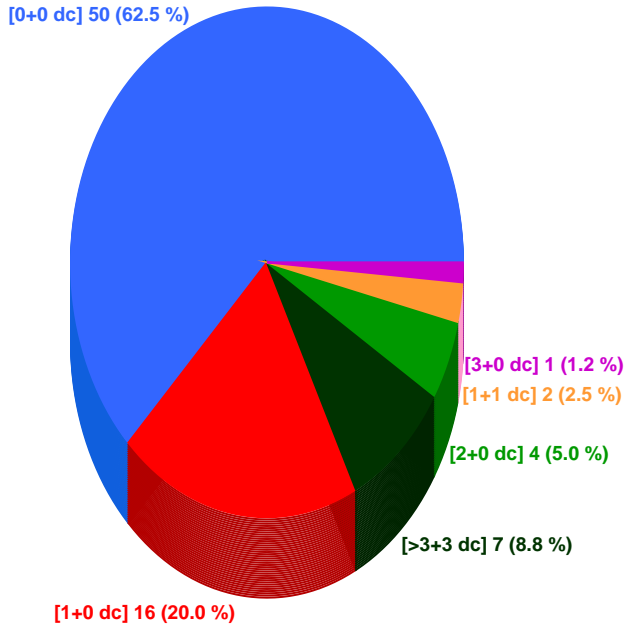81.25 % ok

[0+0 dc] 7 (43.8 %)
[1+0 dc] 3 (18.8 %)
[2+0 dc] 3 (18.8 %)
[>3+3 dc] 3 (18.8 %)

Stave - Daresbury

93.33 % ok

[0+0 dc] 8 (53.3 %)
[1+0 dc] 5 (33.3 %)
[1+1 dc] 1 (6.7 %)
[>3+3 dc] 1 (6.7 %)

Stave - Frascati

94.44 % ok

[0+0 dc] 13 (72.2 %)
[1+0 dc] 4 (22.2 %)
[>3+3 dc] 1 (5.6 %)

Stave - Turin

90.32 % ok

[0+0 dc] 22 (71.0 %)
[1+0 dc] 4 (12.9 %)
[>3+3 dc] 2 (6.5 %)
[1+1 dc] 1 (3.2 %)
[2+0 dc] 1 (3.2 %)
[3+0 dc] 1 (3.2 %)

Stave - OL

90.00 % ok

[0+0 dc] 50 (62.5 %)

[3+0 dc] 1 (1.2 %)
[1+1 dc] 2 (2.5 %)
[2+0 dc] 4 (5.0 %)
[>3+3 dc] 7 (8.8 %)
[1+0 dc] 16 (20.0 %)

Stave - ML

96.88 % ok

[0+0 dc] 25 (78.1 %)

[2+0 dc] 1 (3.1 %)
[1+0 dc] 6 (18.8 %)

All Stave

Berkeley	Nikhef	Daresbury	Frascati	Turin

32, 16, 15, 18, 31

Det. Grade Stave

Berkeley	Nikhef	Daresbury	Frascati	Turin

31, 13, 14, 17, 29
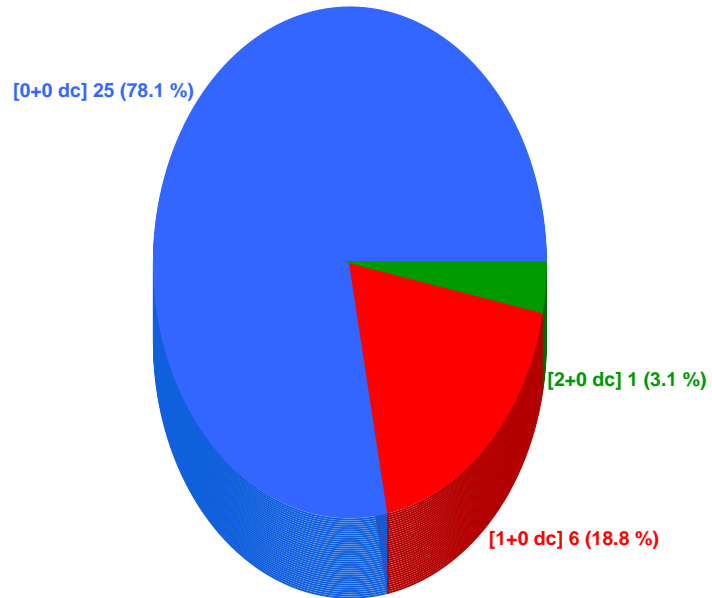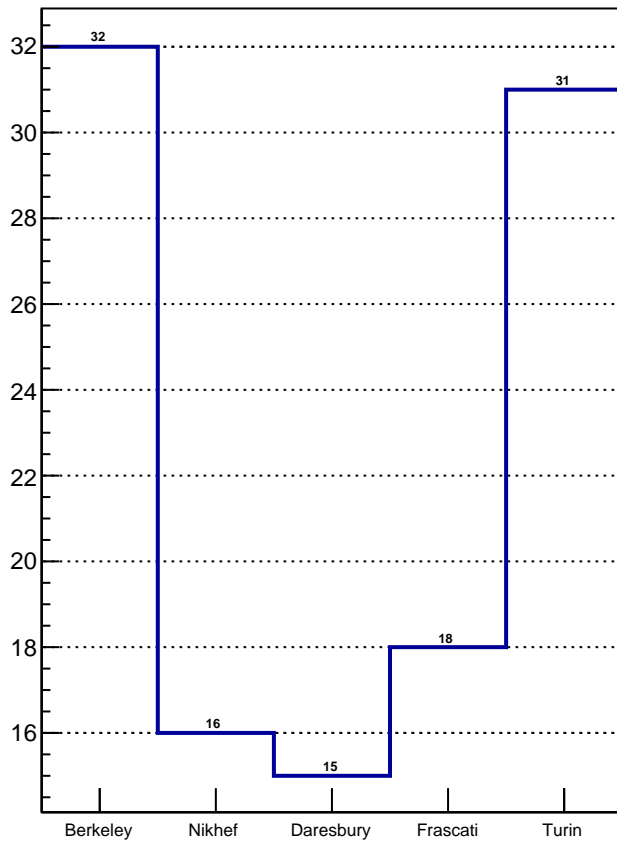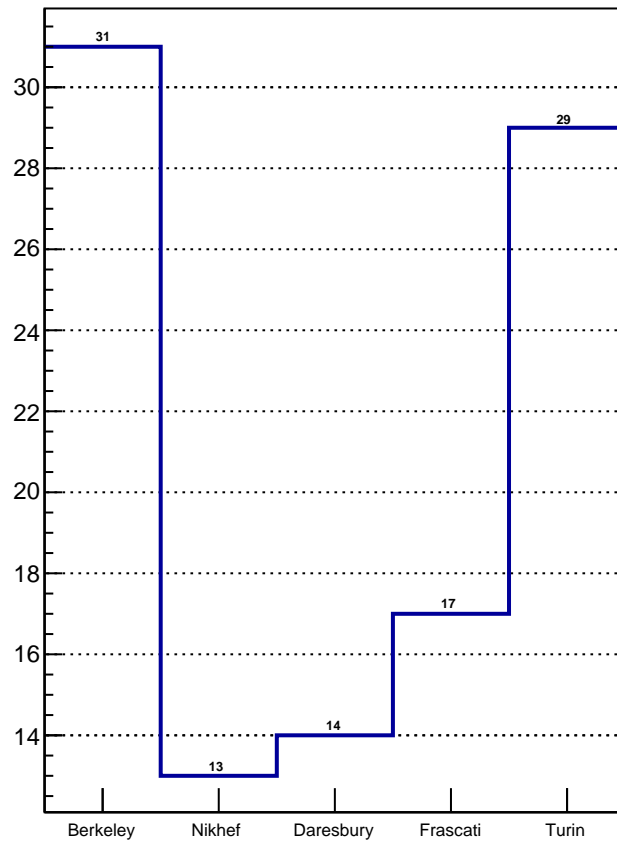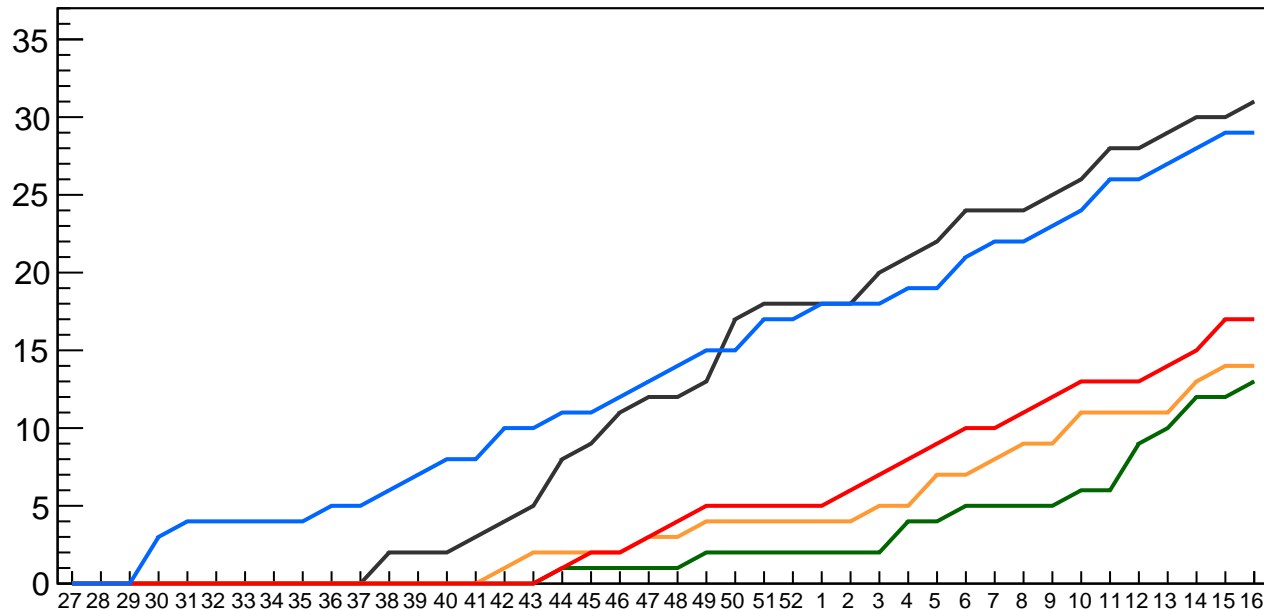
Det. grade Stave vs time

Legend: Berkeley, Daresbury, Turin, Nikhef, Frascati

Comparison to prev. week
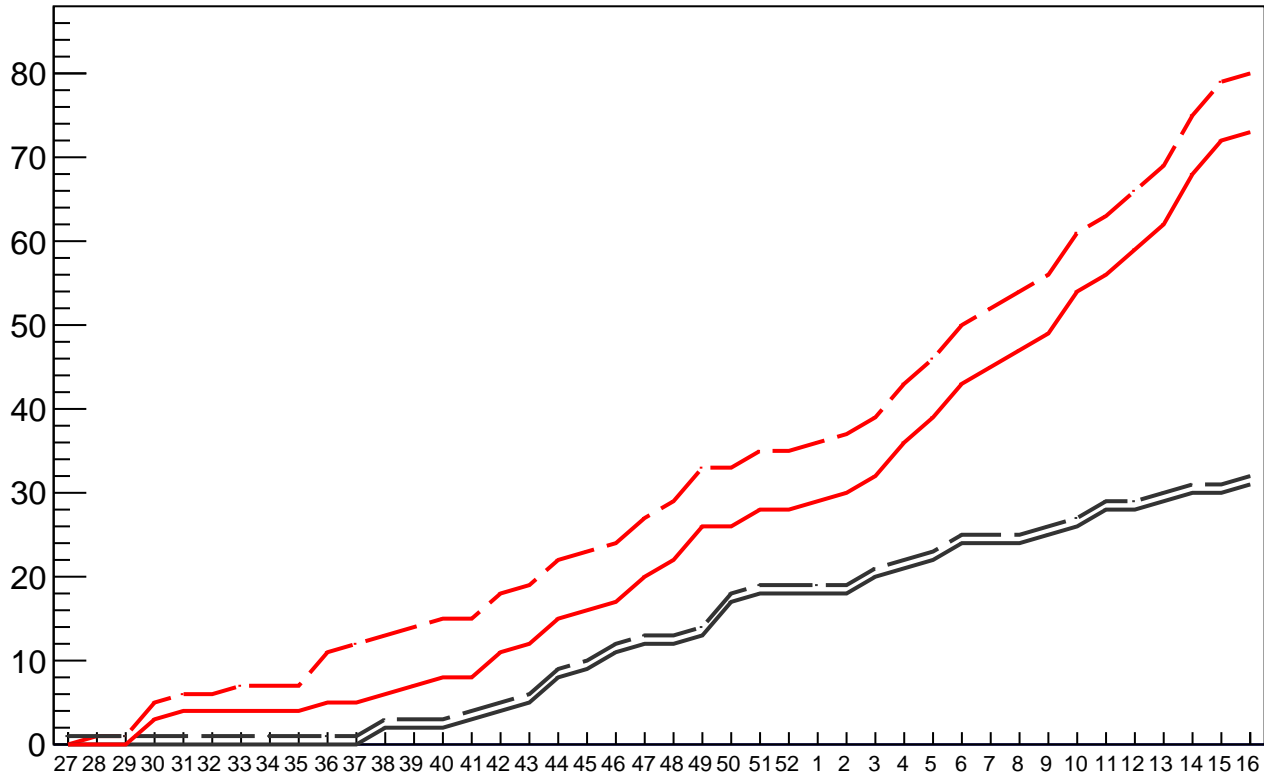Berkeley: +1
Nikhef: +1
Daresbury: +0
Frascati: +0
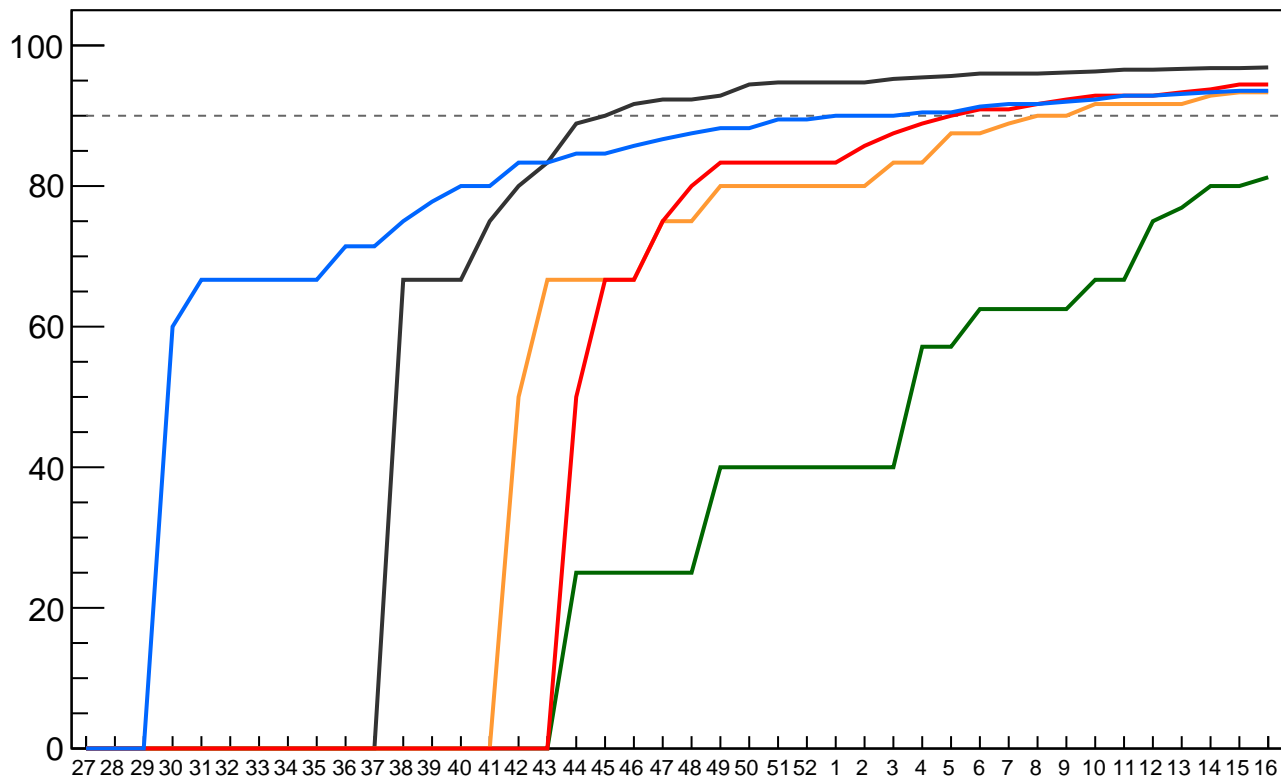Turin: +0

#Stave

Week

Det. grade Stave vs time
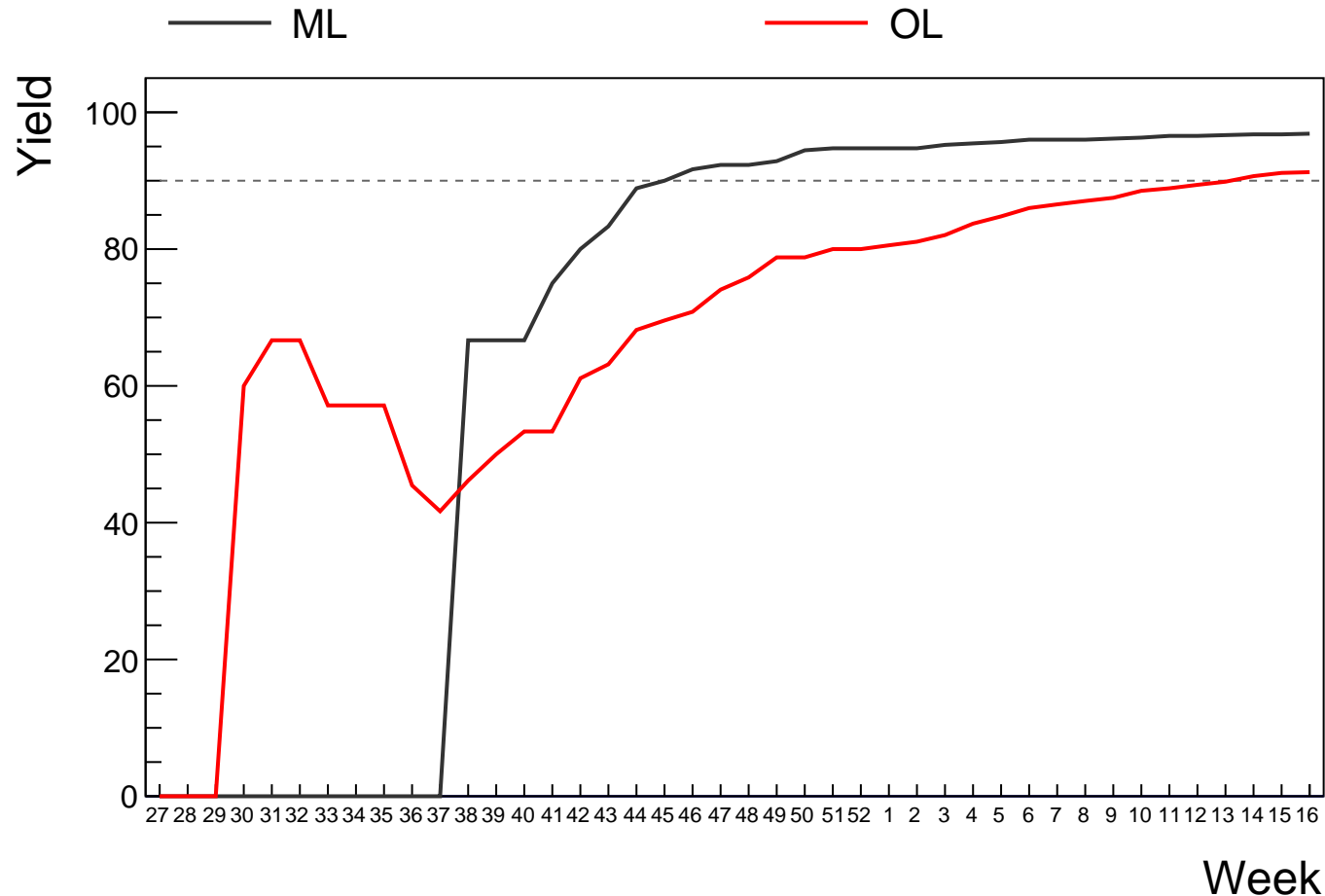
Stave yield vs time

Stave yield vs time

Production rate (October 2018 - prev. week)**
Berkeley: 1.08(all) -- 1.08(DG)
Nikhef: 0.46(all) -- 0.46(DG)
Daresbury: 0.54(all) -- 0.54(DG)
Frascati: 0.65(all) -- 0.65(DG)
Turin: 0.81(all) -- 0.81(DG)

OL: 2.46(all) -- 2.46(DG)
ML: 1.08(all) -- 1.08(DG)

**Christmas holiday excluded (2 weeks)

Stave reception @CERN

Staves qualified in the previous week

T-OL-Stave-028: (U,L)=(0, 0) bad chips
D-OL-Stave-014: (U,L)=(0, 0) bad chips
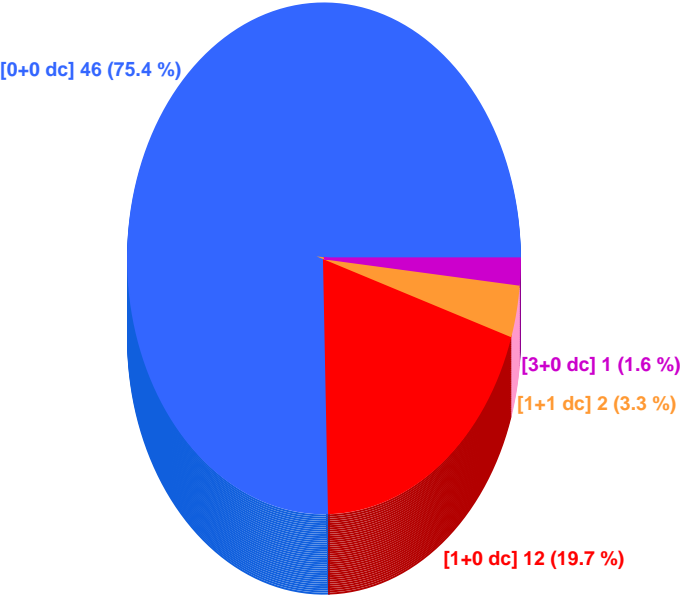**D-OL-Stave-013: (U,L)=(0, 0) bad chips**
D-OL-Stave-012: (U,L)=(0, 1) bad chips

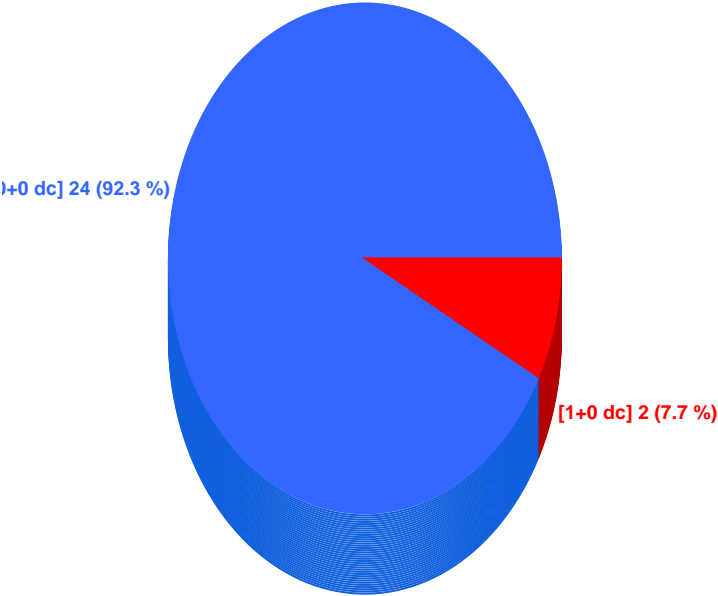**Staves qualified this week**

F-OL-Stave-021: (U,L)=(0, 0)

Stave - OL @CERN

98.36 % ok
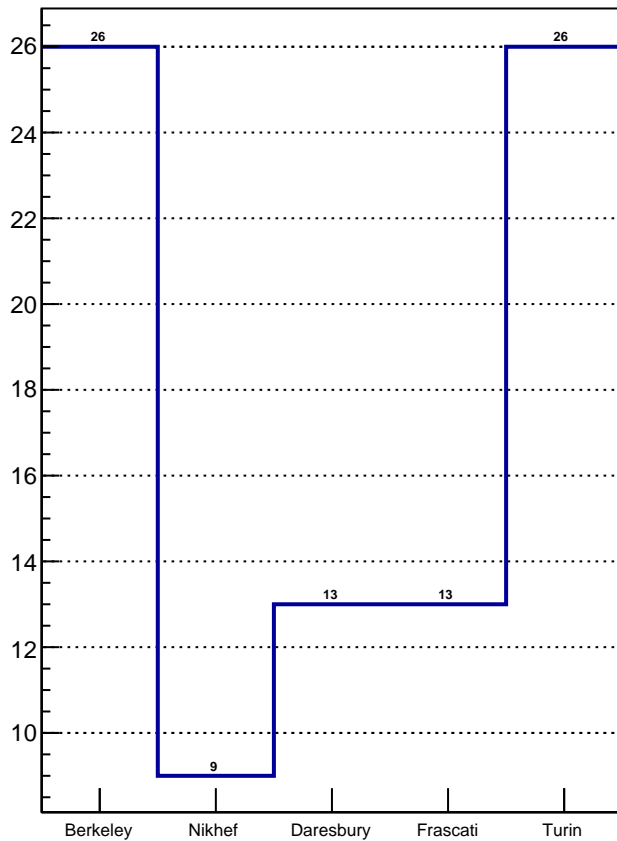
[0+0 dc] 46 (75.4 %)

[3+0 dc] 1 (1.6 %)

[1+1 dc] 2 (3.3 %)

[1+0 dc] 12 (19.7 %)

Stave - ML @CERN

100.00 % ok

[0+0 dc] 24 (92.3 %)

[1+0 dc] 2 (7.7 %)

All Stave @CERN

Det. Grade Stave @CERN
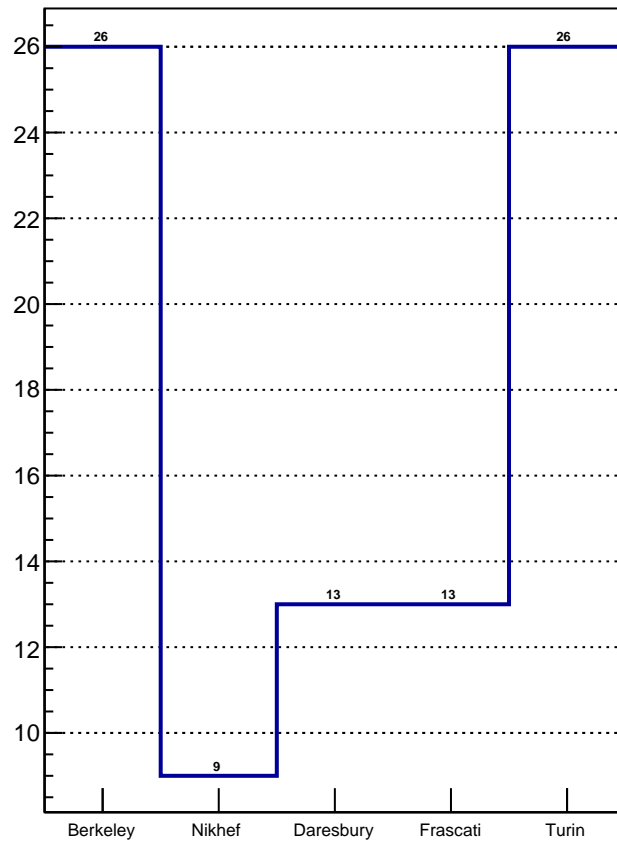
Det. grade Stave vs time @CERN
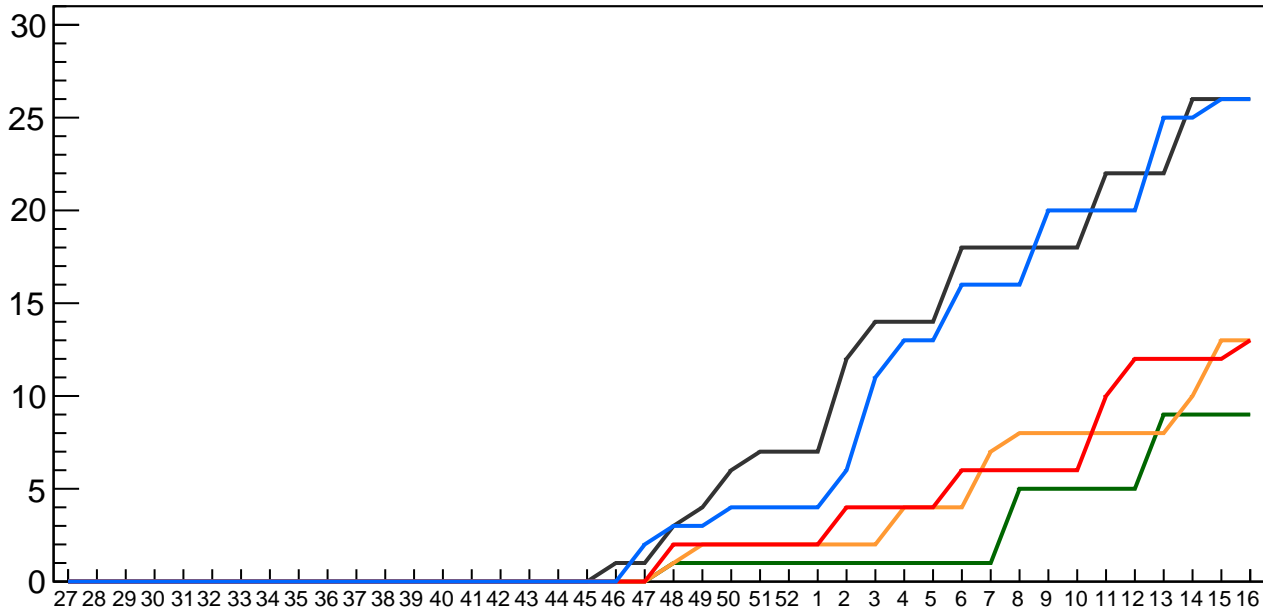
Det. grade Stave vs time @CERN

ML(all)   ML(DG)
OL(all)   OL(DG)
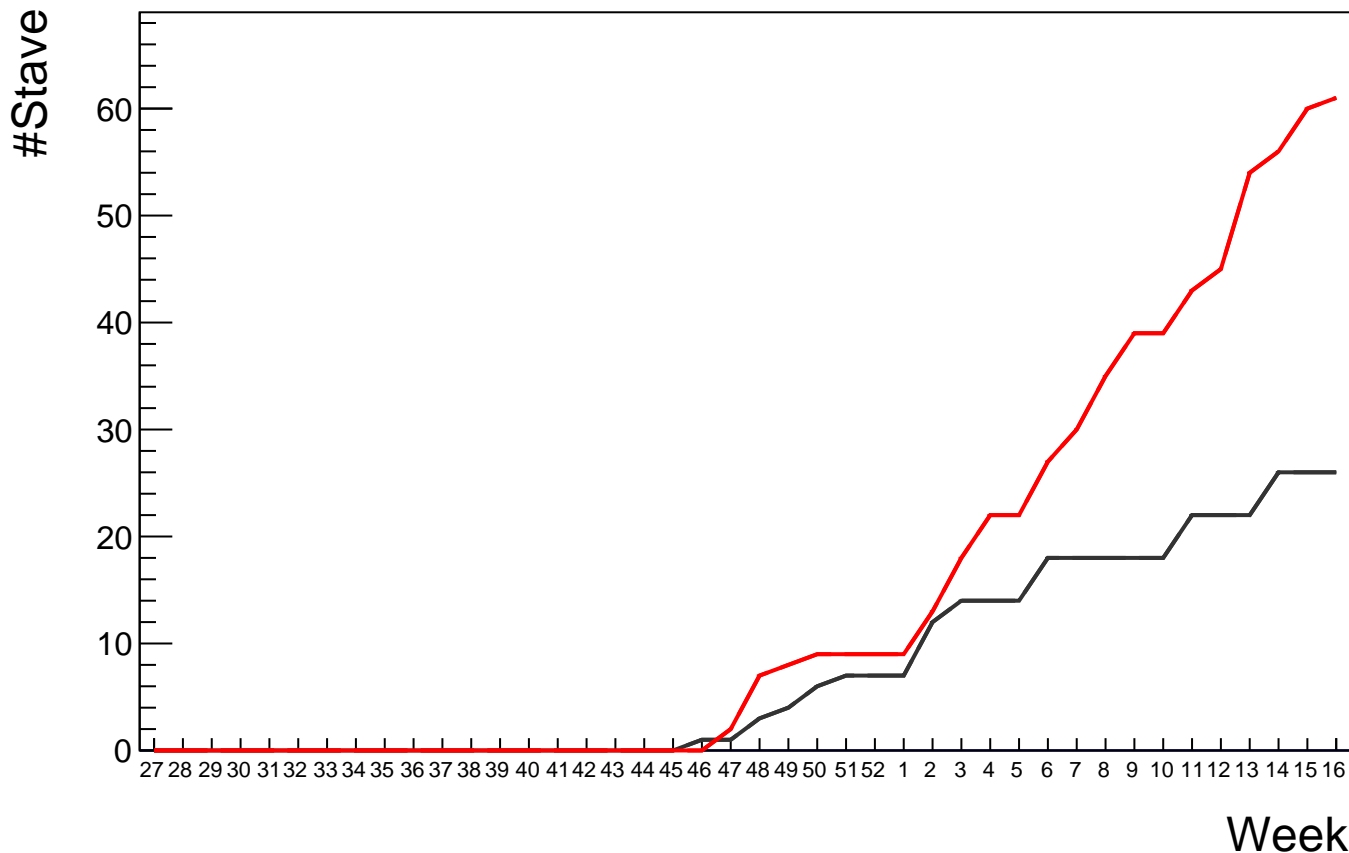
#Stave

Week

Qualification rate (December 2018 - prev. week)**
Berkeley: 1.35(all) -- 1.35(DG)
Nikhef: 0.47(all) -- 0.47(DG)
Daresbury: 0.71(all) -- 0.71(DG)
Frascati: 0.59(all) -- 0.59(DG)
Turin: 1.35(all) -- 1.35(DG)

OL: 3.12(all) -- 3.12(DG)
ML: 1.35(all) -- 1.35(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
T-OL-HS-U-034: 0 bad chips
T-OL-HS-U-033: 0 bad chips
T-OL-HS-L-033: 0 bad chips
F-OL-HS-L-002: 0 bad chips
F-OL-HS-U-022: 0 bad chips
F-OL-HS-U-013: 0 bad chips
F-OL-HS-U-005: 0 bad chips
F-OL-HS-L-023: 0 bad chips
F-OL-HS-L-022: 0 bad chips
F-OL-HS-L-013: 1 bad chips
F-OL-HS-L-005: 0 bad chips
D-OL-HS-U-018: 0 bad chips
D-OL-HS-U-017: 0 bad chips
D-OL-HS-U-008: 0 bad chips
D-OL-HS-L-210: 0 bad chips
D-OL-HS-L-018: 0 bad chips
D-OL-HS-L-017: 0 bad chips
D-OL-HS-L-008: 0 bad chips
A-OL-HS-U-109: 2 bad chips
A-OL-HS-L-013: 0 bad chips
A-OL-HS-L-012: 0 bad chips
B-ML-HS-U-035: 0 bad chips
B-ML-HS-U-034: 0 bad chips
B-ML-HS-U-014: 0 bad chips
B-ML-HS-L-034: 0 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(?)

F-OL-HS-U-002: 8 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
F-OL-Stave-001: (U,L) = (43, 14) bad chips
T-OL-Stave-003: (U,L) = (6, 2) bad chips
T-OL-Stave-002: (U,L) = (7, 1) bad chips
D-OL-Stave-001: (U,L) = (0, 15) bad chips
B-ML-Stave-001: (U,L) = (2, 0) bad chips