# Stave production monitoring

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16/05/2019

Monitoring from January 2018 to 16/05/2019

Stave meeting

# HS monitoring

**HSs of previous week**

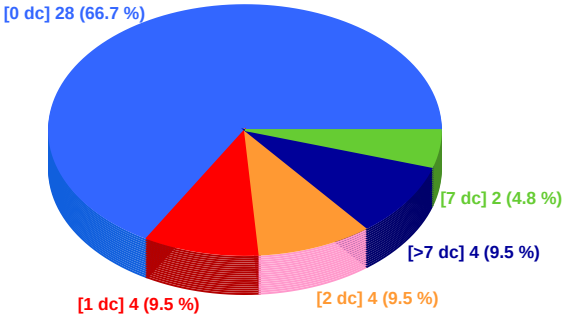
**D-OL-HS-U-020: 0 bad chips**
**B-ML-HS-U-042: 0 bad chips**
**B-ML-HS-U-041: 0 bad chips**
**B-ML-HS-L-041: 0 bad chips**
**B-ML-HS-L-040: 0 bad chips**

**HSs of this week**

**F-OL-HS-U-502: 0 bad chips**
**F-OL-HS-U-024: 0 bad chips**
**F-OL-HS-L-025: 0 bad chips**
**A-OL-HS-U-120: 0 bad chips**
**A-OL-HS-L-021: 0 bad chips**
**B-ML-HS-L-042: 0 bad chips**

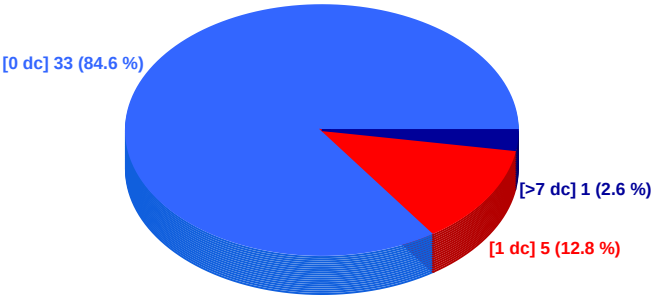
HS - Nikhef

85.71 % ok



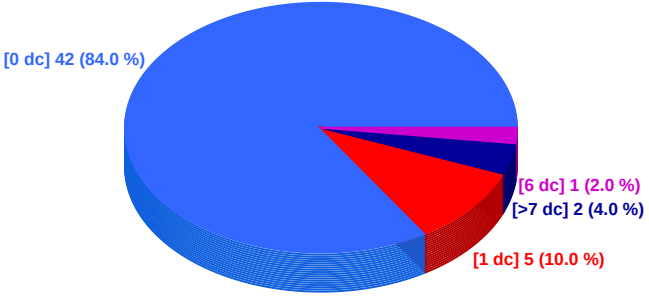

HS - Daresbury

97.44 % ok



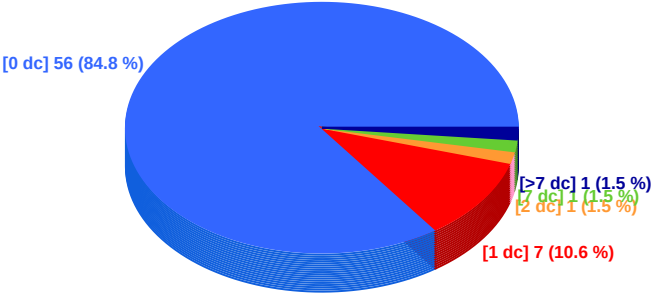

HS - Frascati

94.00 % ok



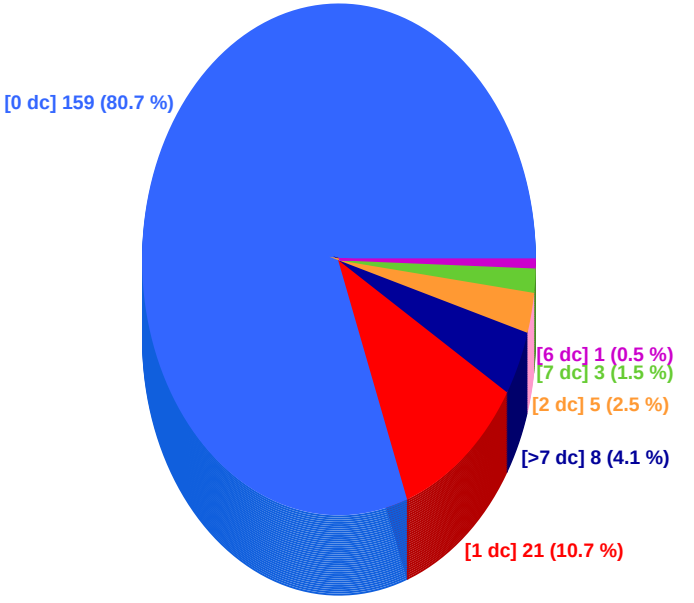

HS - Turin

96.97 % ok



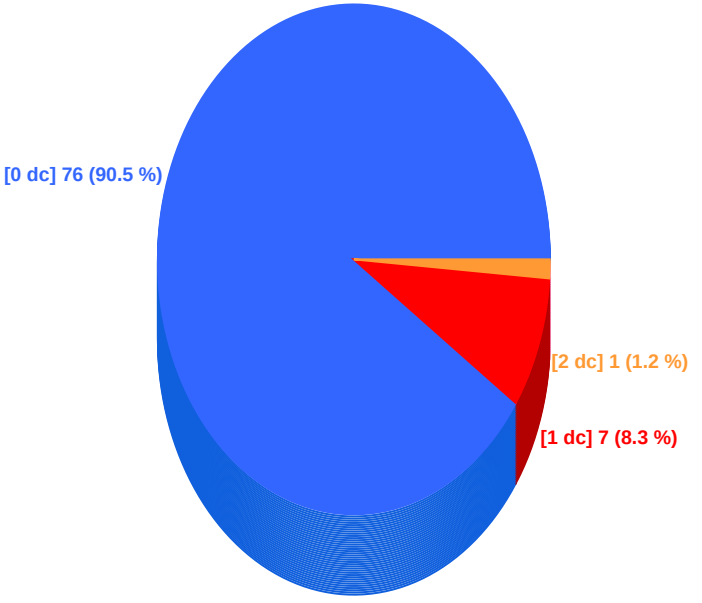
## HS - OL

93.91 % ok

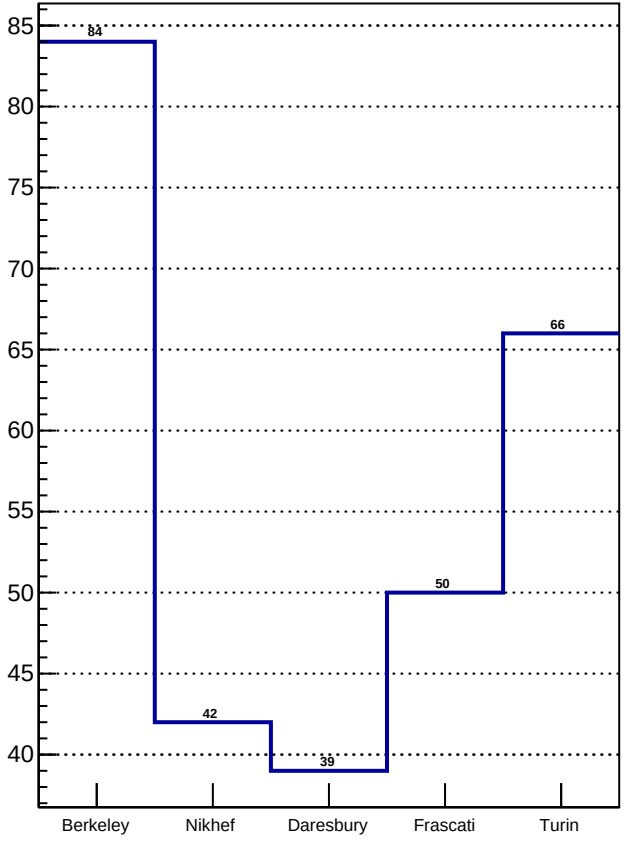



## HS - ML

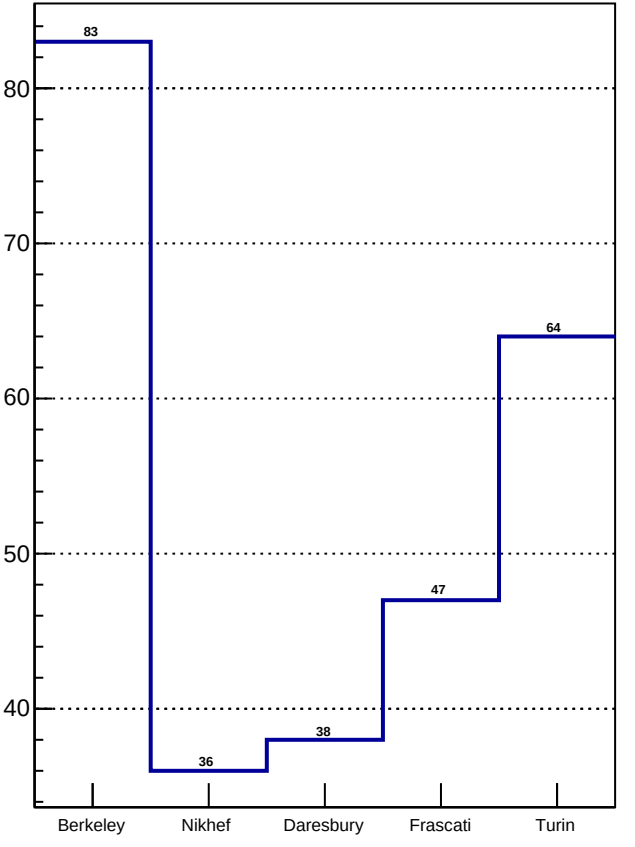
98.81 % ok

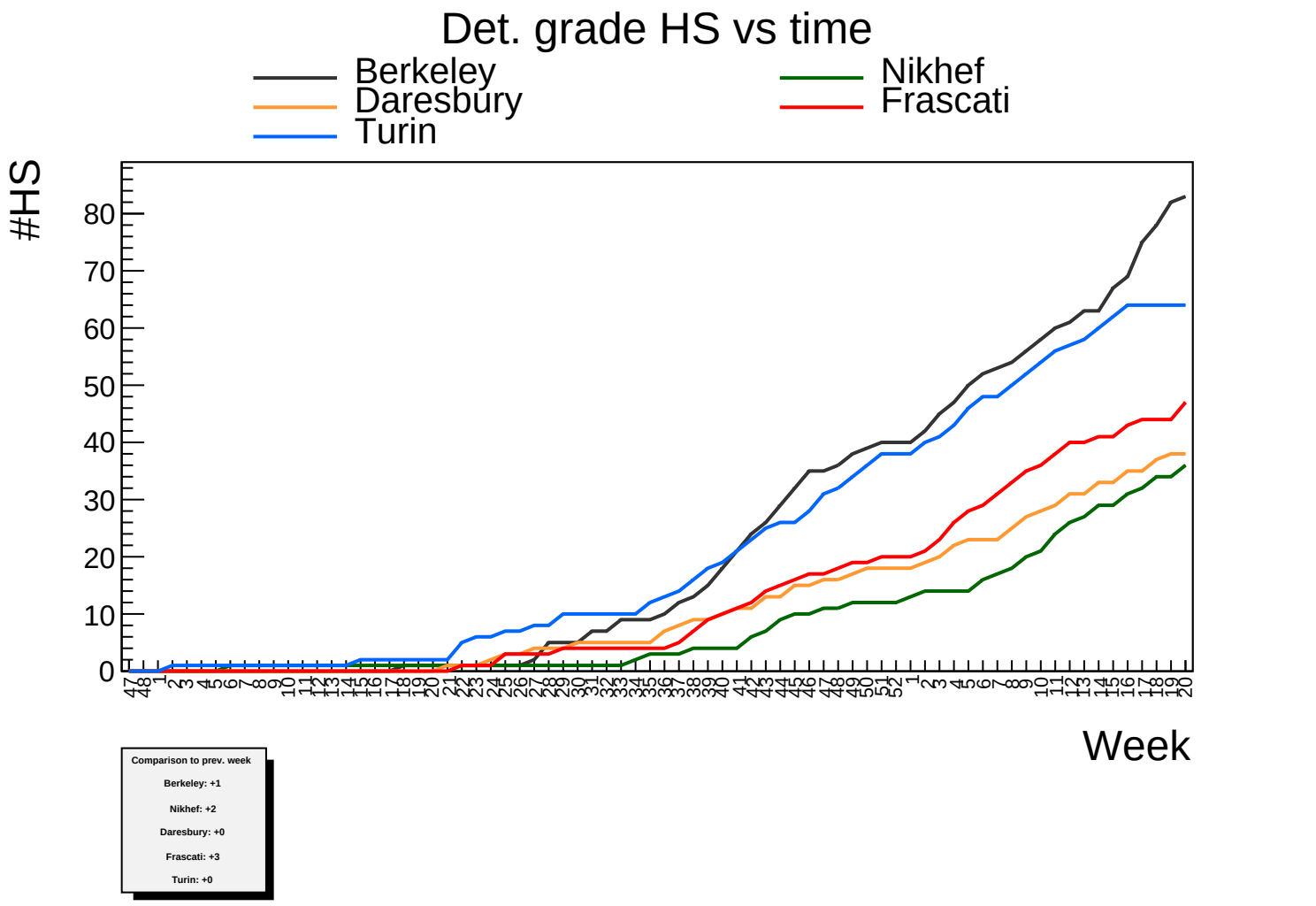


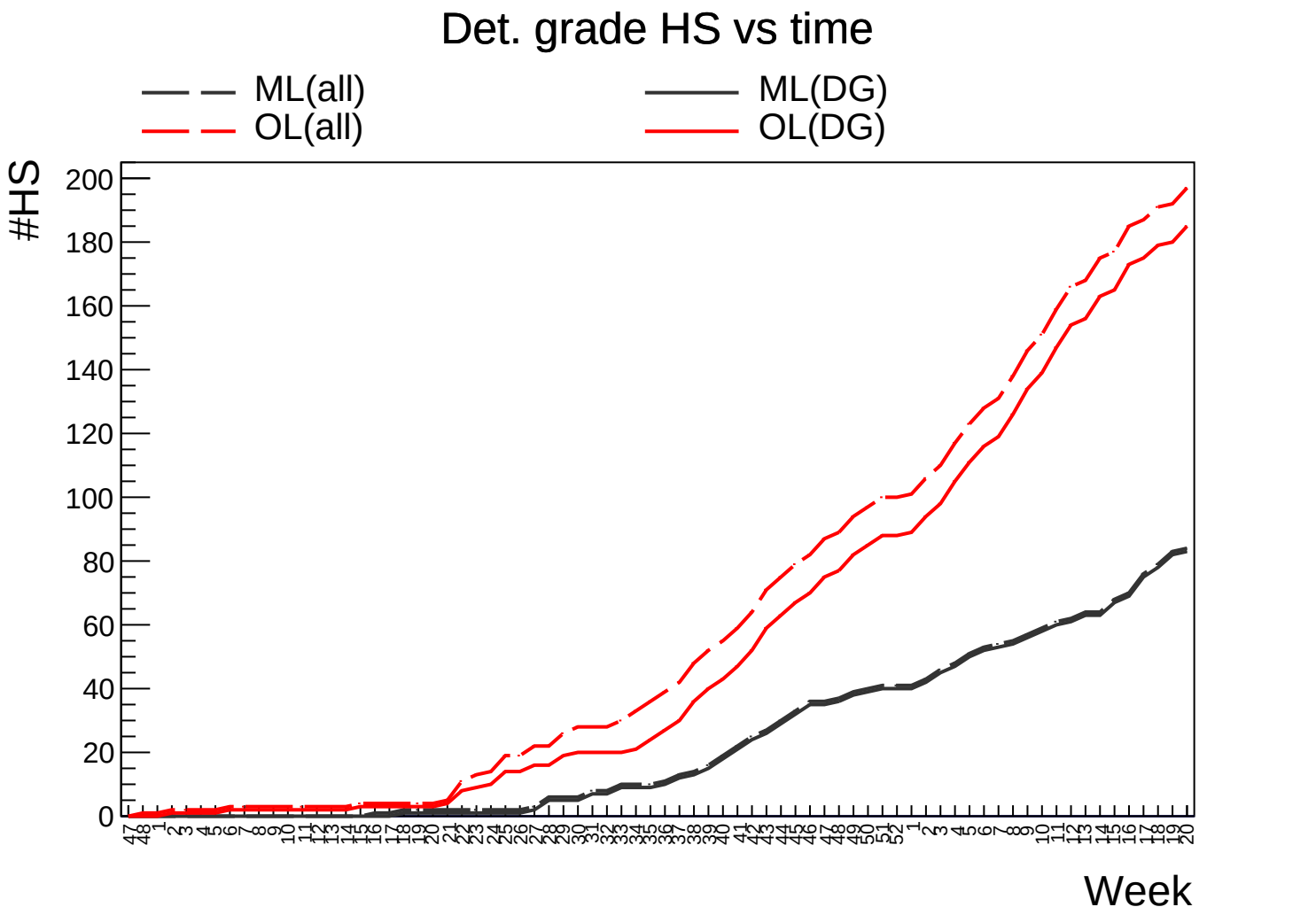
All HS

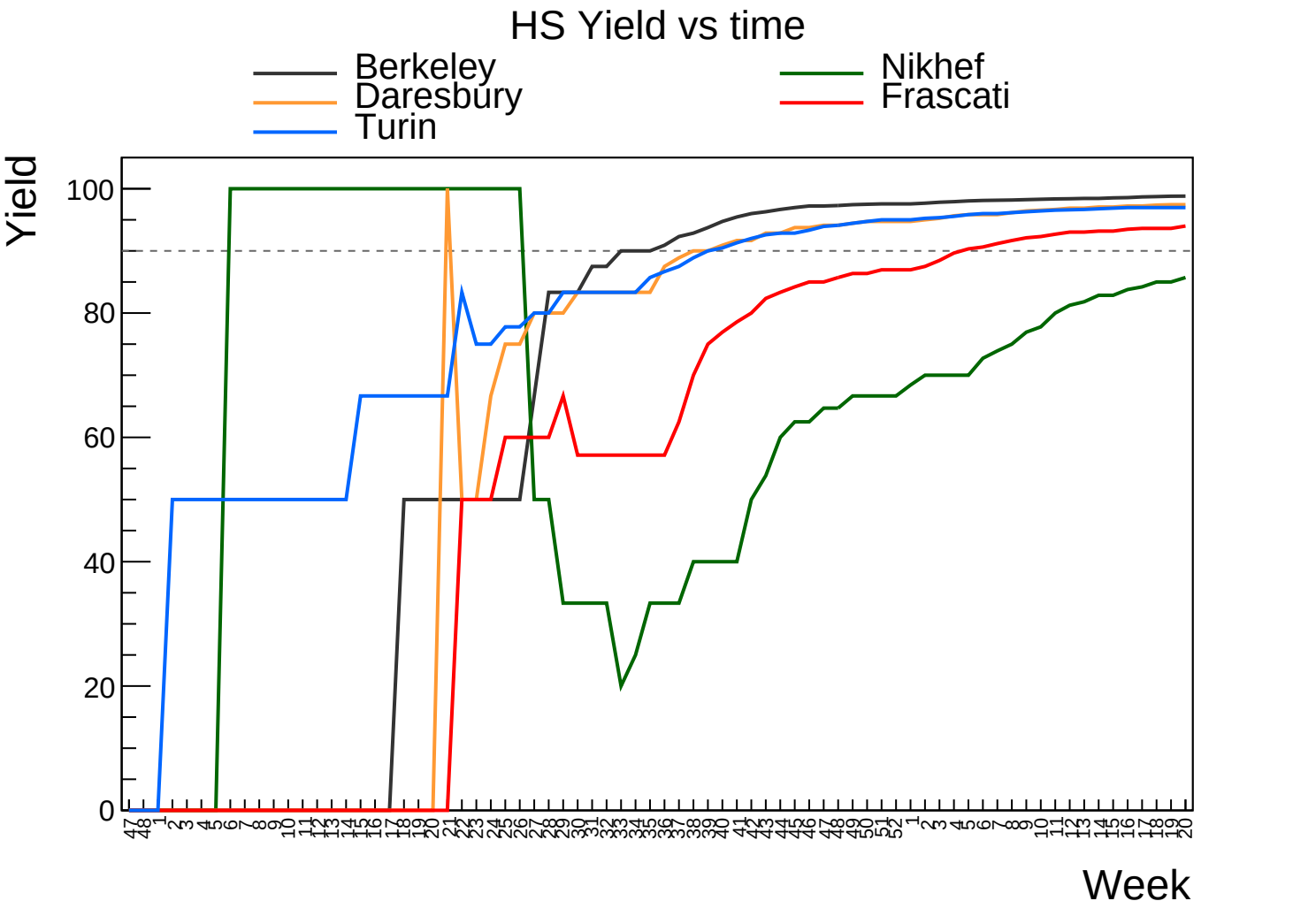


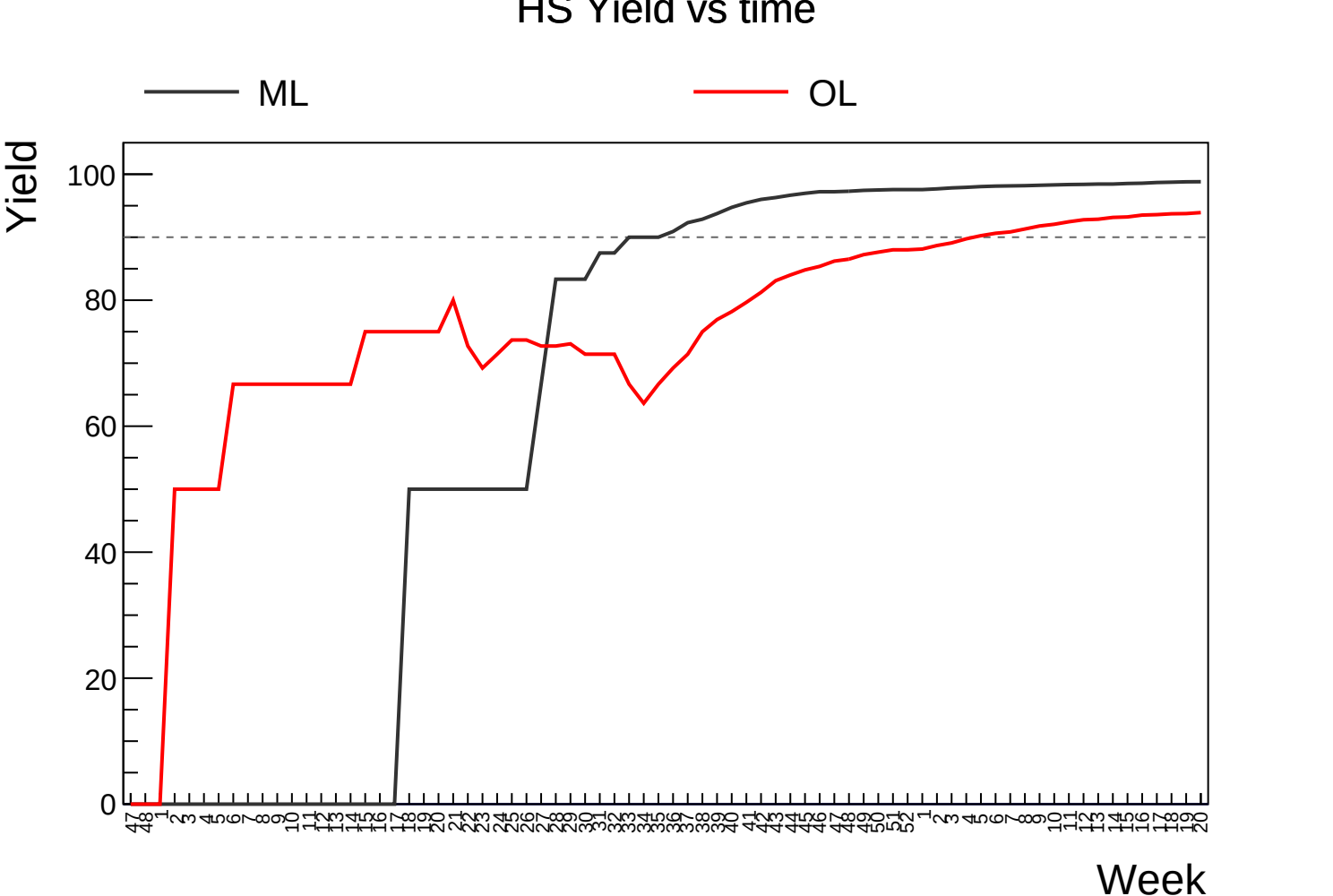

Det. Grade HS




Det. grade HS vs time
Berkeley
Daresbury
Turin
Nikhef
Frascati
#HS
0
10
20
30
40
50
60
70
80
Week
Comparison to prev. week
Berkeley: +1
Nikhef: +2
Daresbury: +0
Frascati: +3
Turin: +0


Det. grade HS vs time
ML(all)
OL(all)
ML(DG)
OL(DG)
#HS
0
20
40
60
80
100
120
140
160
180
200
47 48 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
Week


HS Yield vs time
Berkeley
Daresbury
Turin
Nikhef
Frascati
Yield
100
80
60
40
20
0
47 48 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
Week


HS Yield vs time
ML
OL
Yield
100
80
60
40
20
0
47 48 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
Week

# Stave monitoring

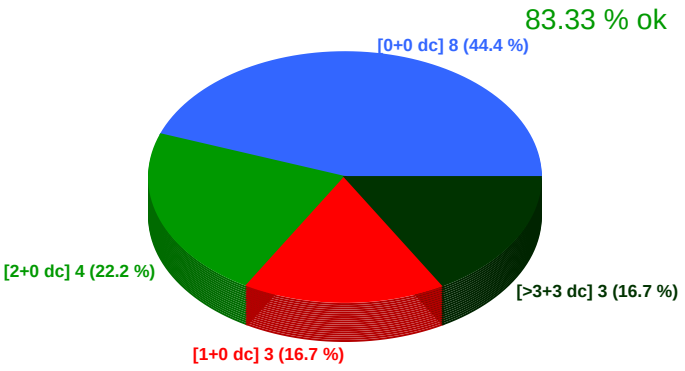
**Staves of previous week**

**F-OL-Stave-013: (U,L)=(0, 0) bad chips**
**A-OL-Stave-018: (U,L)=(0, 0) bad chips**
**B-ML-Stave-040: (U,L)=(0, 0) bad chips**

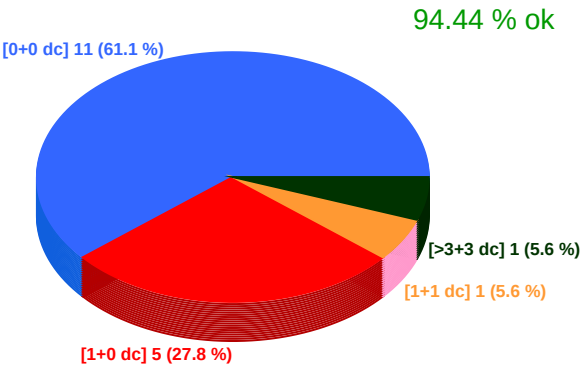
**Staves of this week**

**D-OL-Stave-019: (U,L)=(0, 0) bad chips**
**B-ML-Stave-041: (U,L)=(0, 0) bad chips**
**B-ML-Stave-039: (U,L)=(0, 1) bad chips**

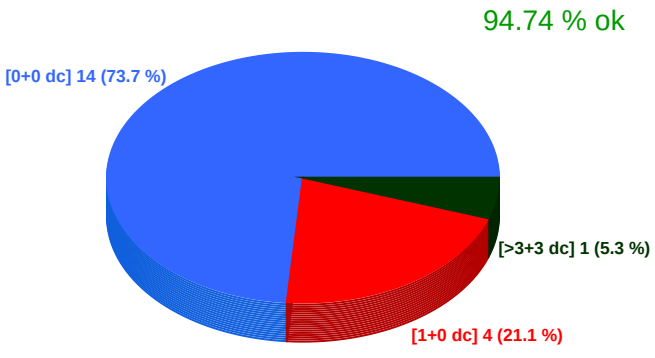
Stave - Nikhef



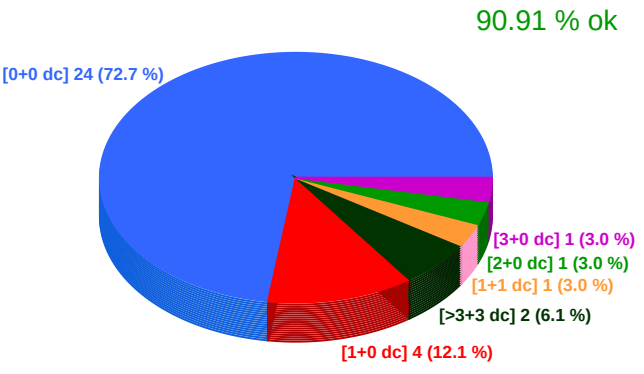

Stave - Daresbury




Stave - Frascati

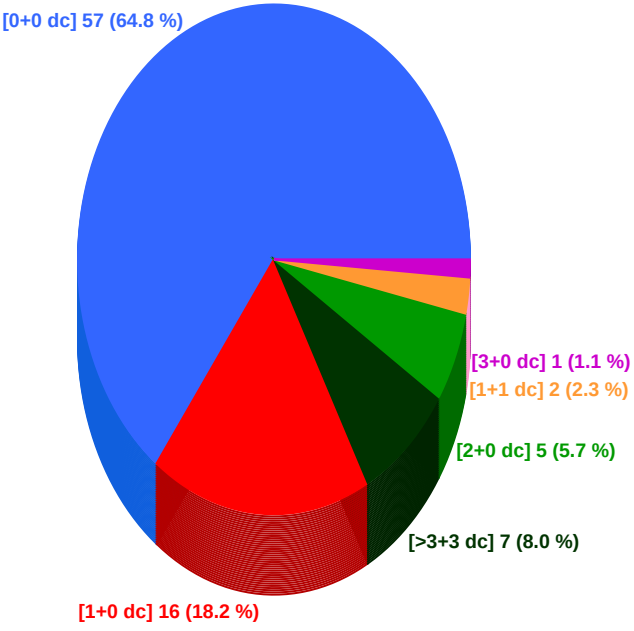



Stave - Turin



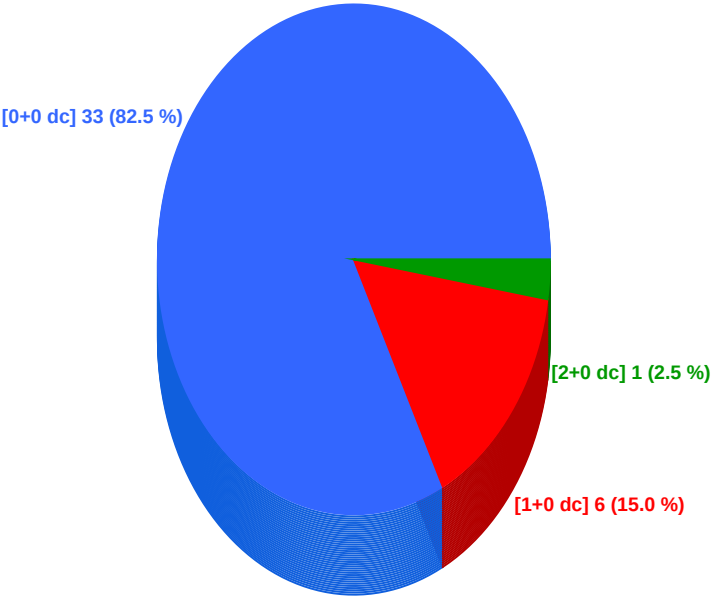
## Stave - OL

90.91 % ok

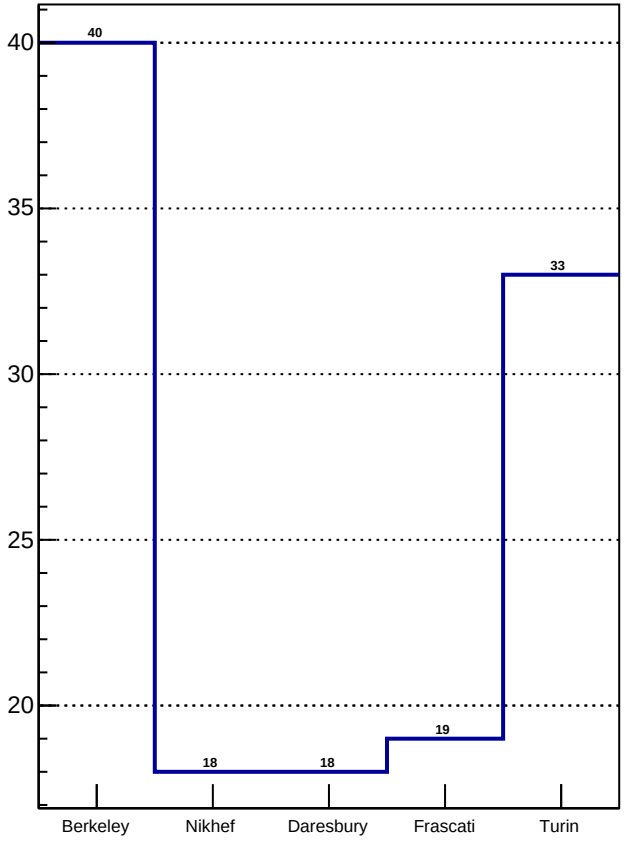



## Stave - ML

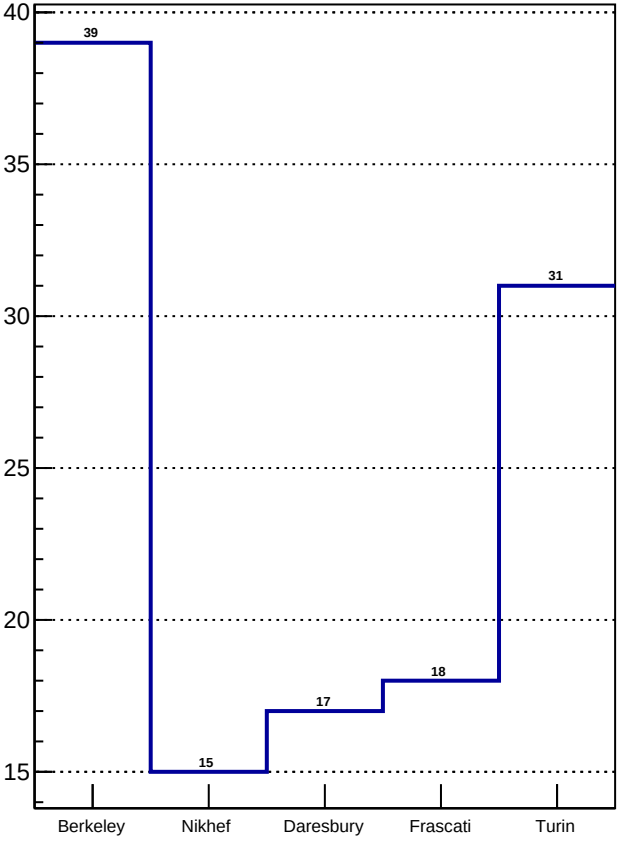
97.50 % ok

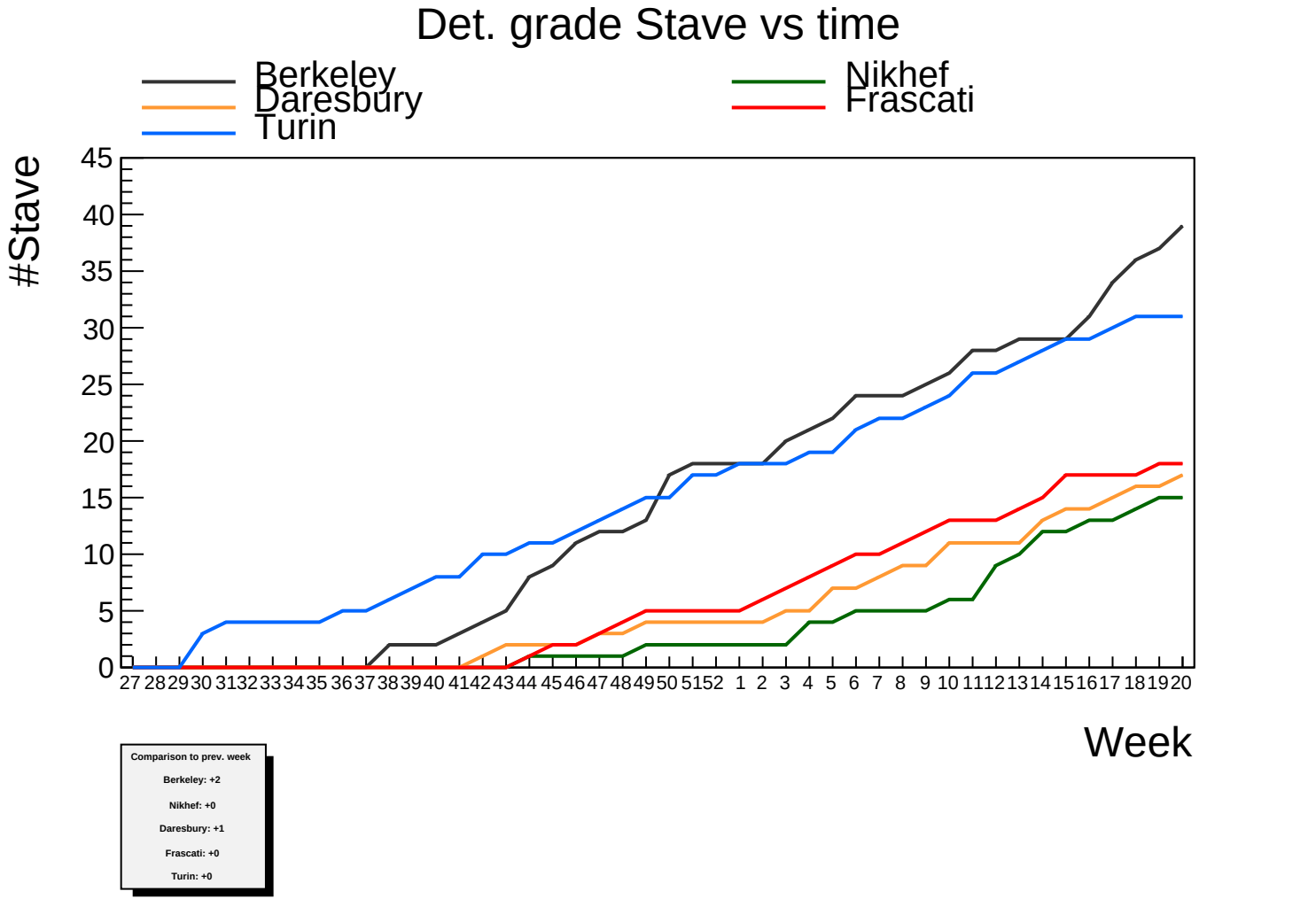


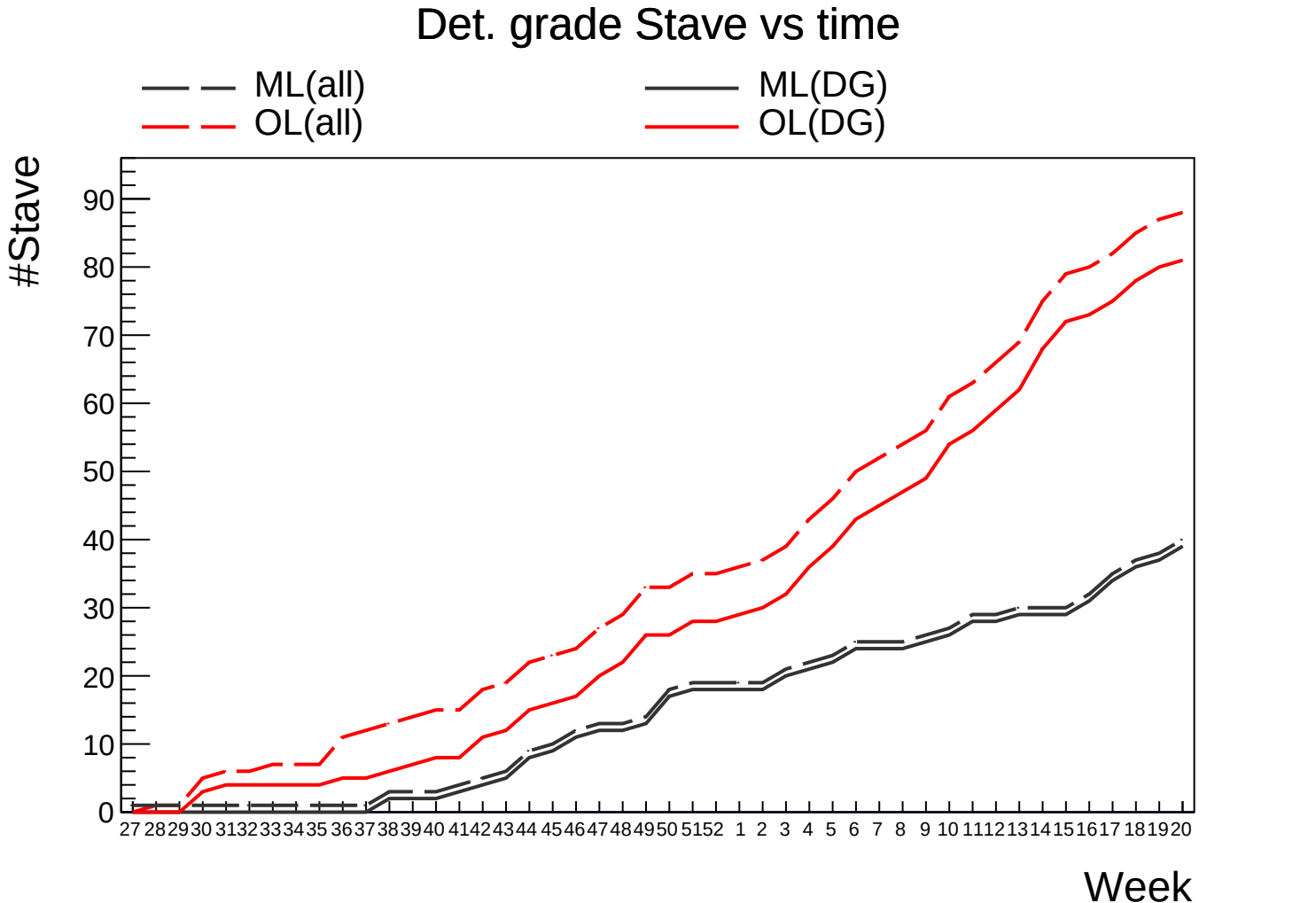
## All Stave

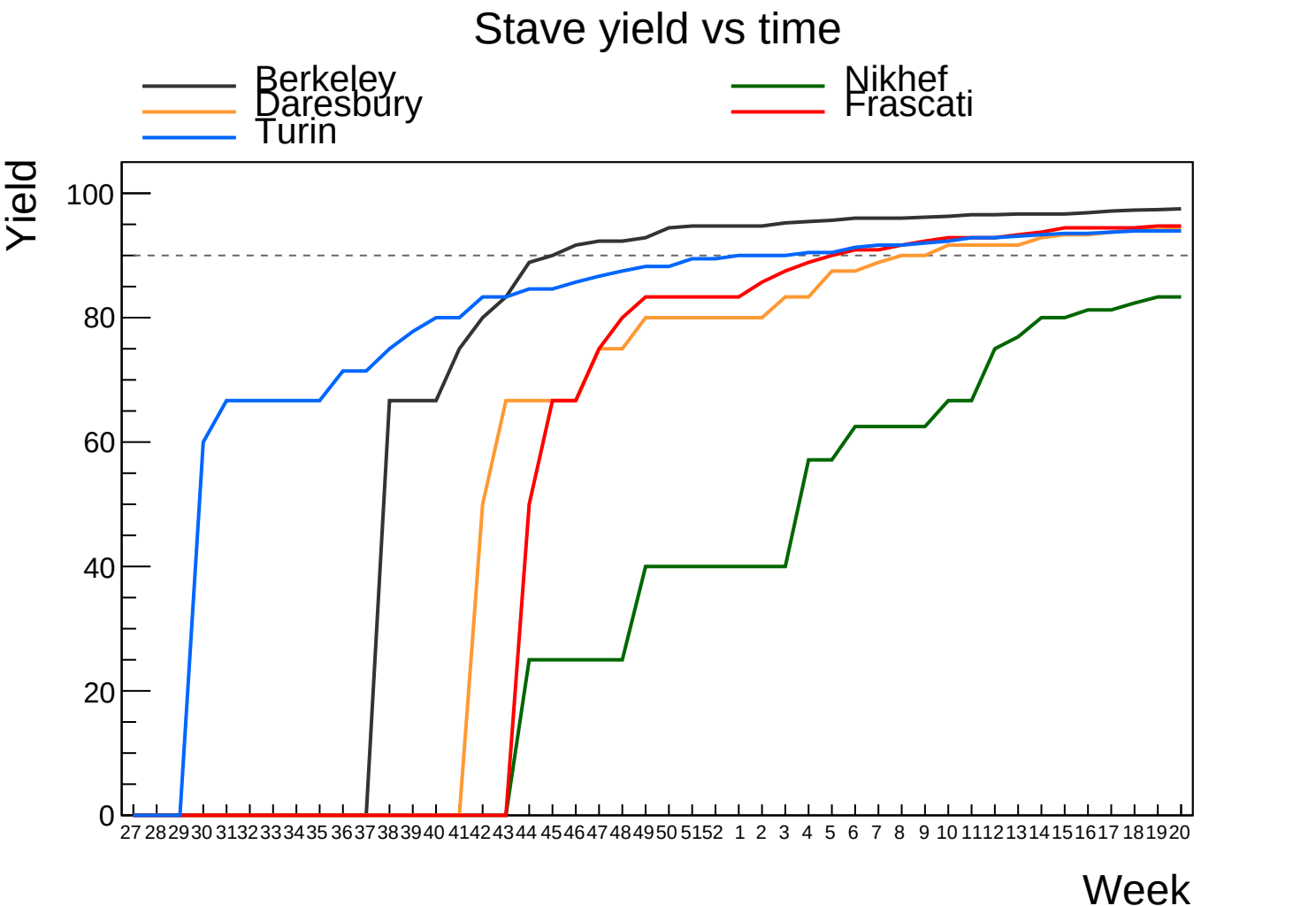


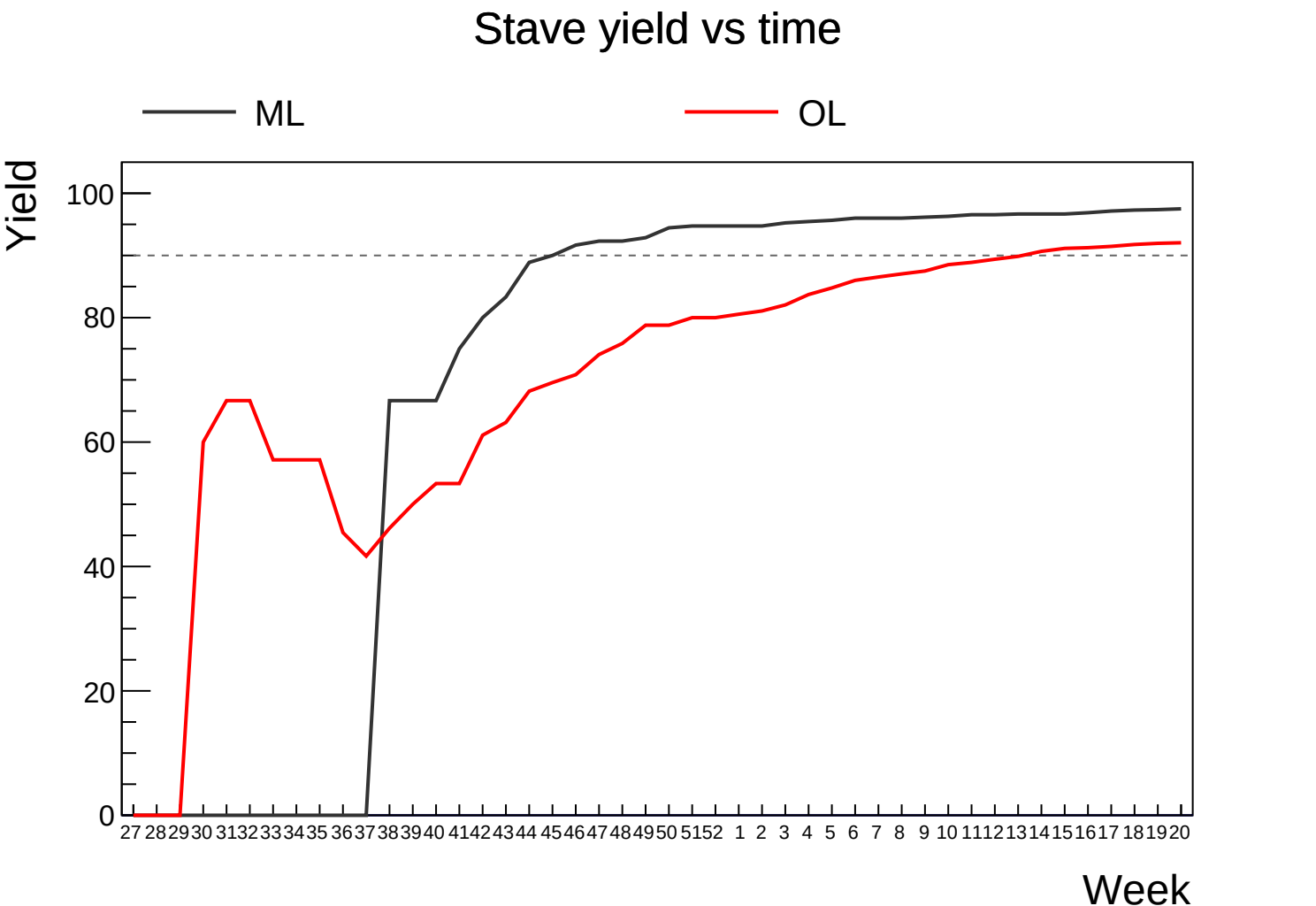

## Det. Grade Stave




Det. grade Stave vs time
Berkeley
Daresbury
Turin
Nikhef
Frascati
#Stave
0
5
10
15
20
25
30
35
40
45
27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
Week
Comparison to prev. week
Berkeley: +2
Nikhef: +0
Daresbury: +1
Frascati: +0
Turin: +0


Det. grade Stave vs time
ML(all)
OL(all)
ML(DG)
OL(DG)
#Stave
0
10
20
30
40
50
60
70
80
90
27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
Week


Stave yield vs time
Berkeley
Daresbury
Turin
Nikhef
Frascati
Yield
100
80
60
40
20
0
27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
Week


Stave yield vs time
ML
OL
Yield
100
80
60
40
20
0
27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
Week

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

**→ Berkeley: 1.17(all) -- 1.17(DG)**

**→ Nikhef: 0.50(all) -- 0.50(DG)**

**→ Daresbury: 0.53(all) -- 0.53(DG)**

**→ Frascati: 0.60(all) -- 0.60(DG)**

**→ Turin: 0.79(all) -- 0.79(DG) → Prod. ended**

**OL: 2.43(all) -- 2.43(DG)**

**ML: 1.17(all) -- 1.17(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) -- 0.80(DG)**
**OL: 2.60(all) -- 2.60(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) -- 1.00(DG)**
**OL: 3.00(all) -- 3.00(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)**

# Stave reception @CERN

## Staves qualified in the previous week

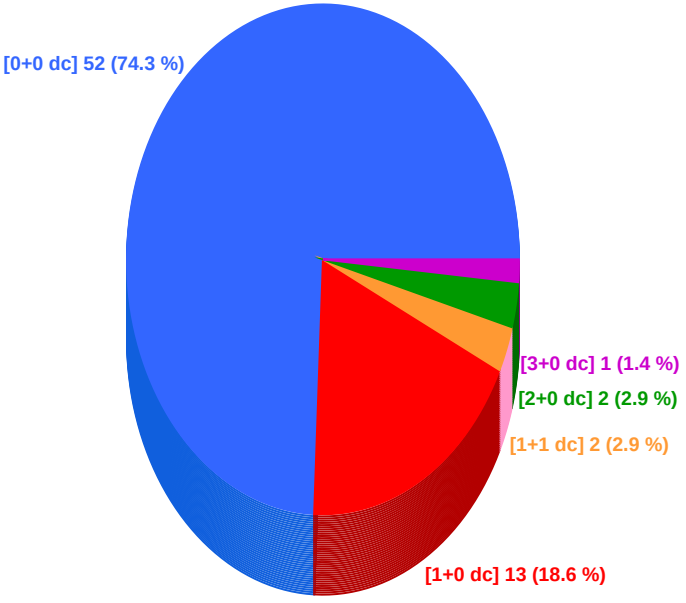
## Staves qualified this week

**T-OL-Stave-034: (U,L)=(0, 0)**

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

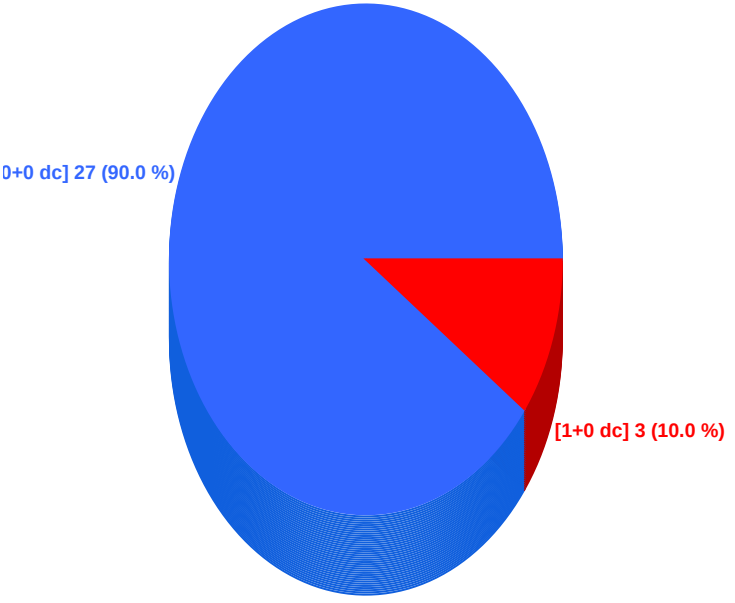
## Stave - OL @CERN

98.57 % ok

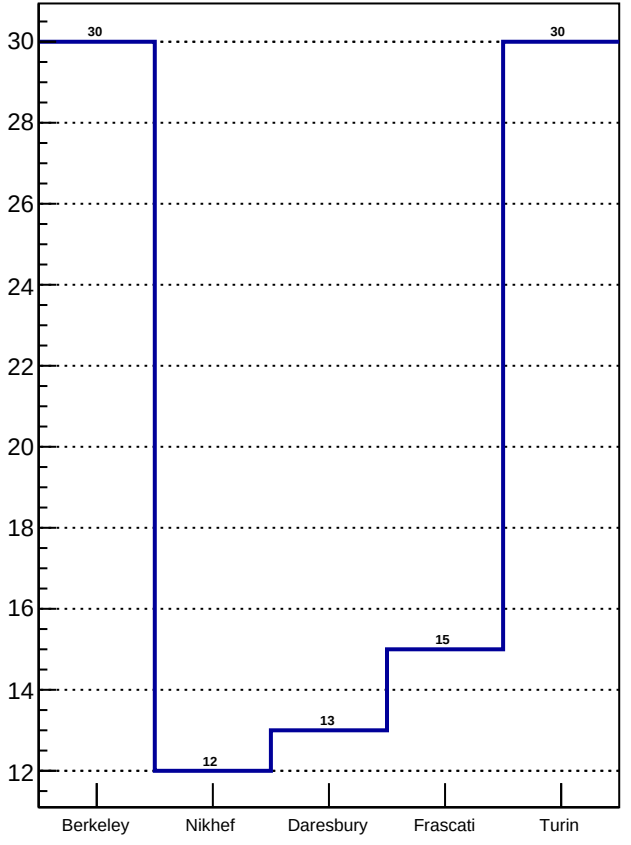



## Stave - ML @CERN

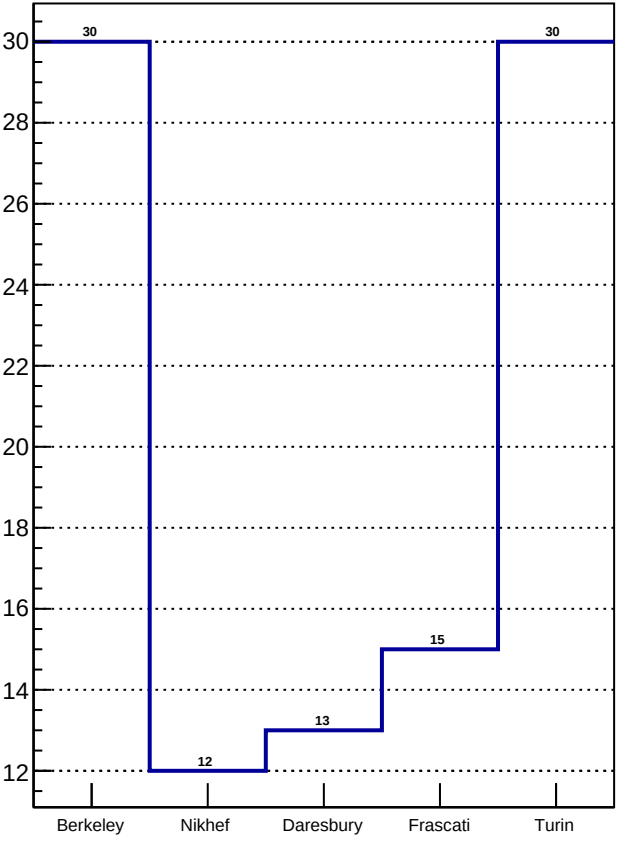
100.00 % ok

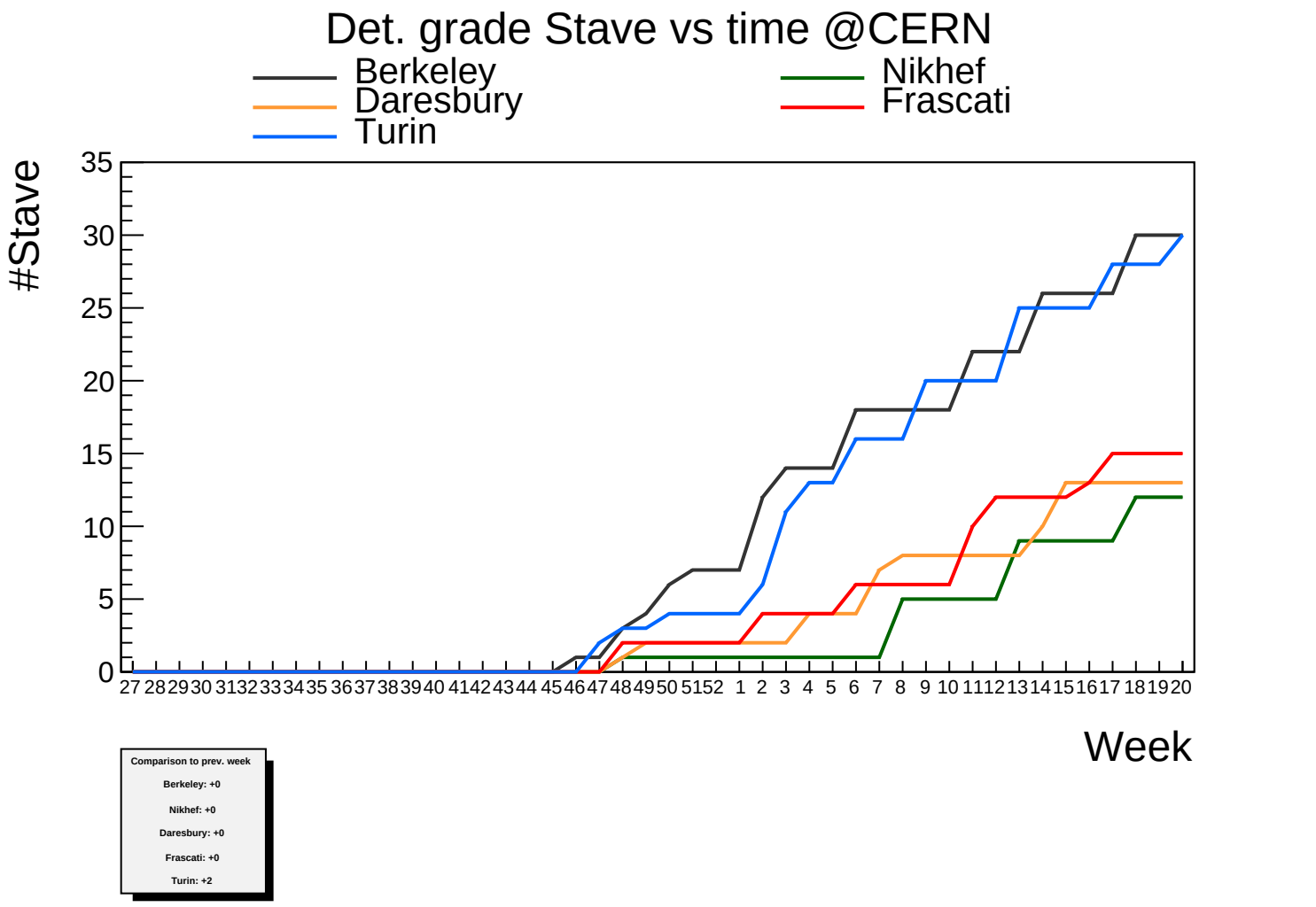


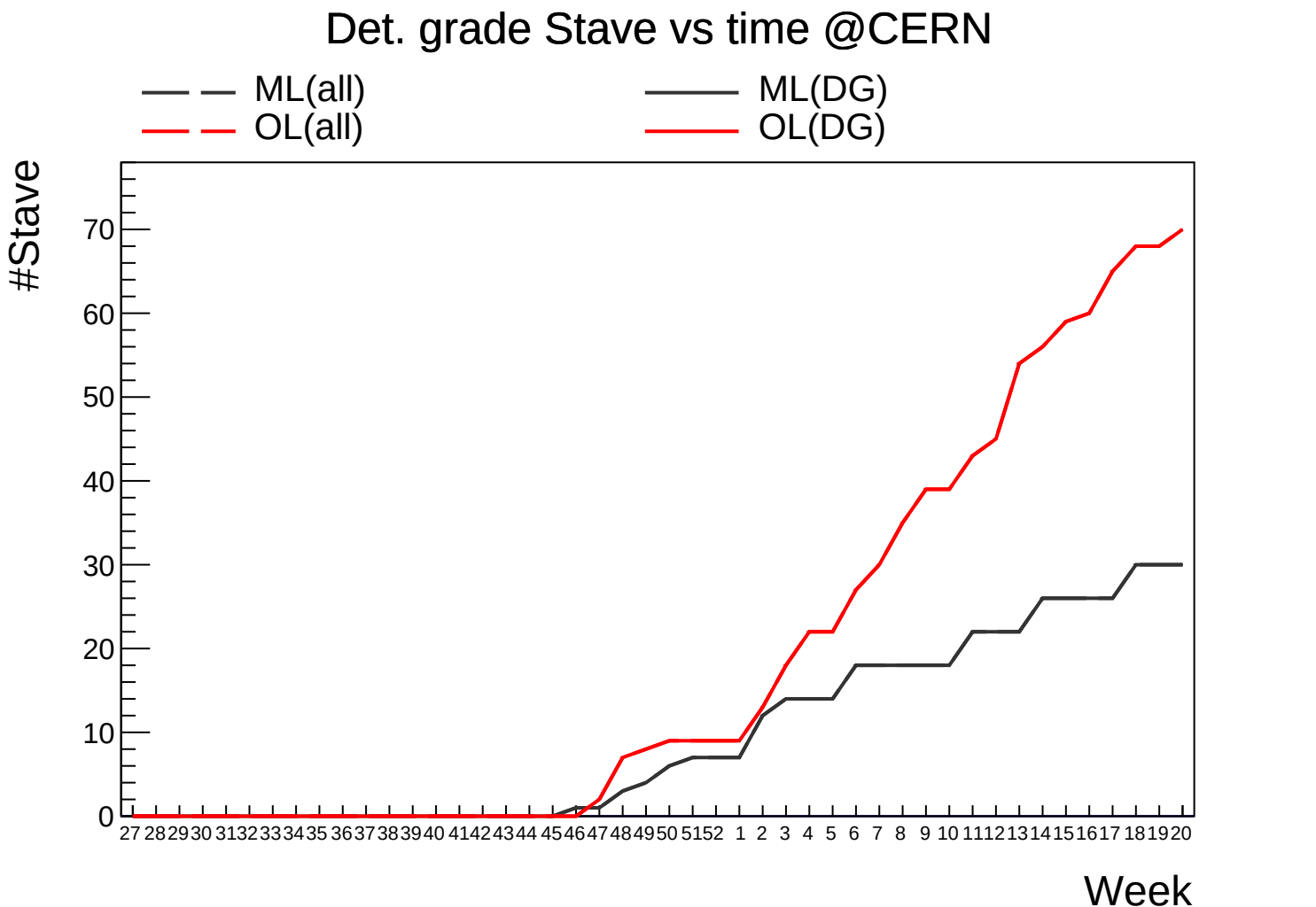
All Stave @CERN




Det. Grade Stave @CERN




Det. grade Stave vs time @CERN
Berkeley
Daresbury
Turin
Nikhef
Frascati
#Stave
0
5
10
15
20
25
30
35
27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
Week
Comparison to prev. week
Berkeley: +0
Nikhef: +0
Daresbury: +0
Frascati: +0
Turin: +2


Det. grade Stave vs time @CERN
ML(all)
OL(all)
ML(DG)
OL(DG)
#Stave
0
10
20
30
40
50
60
70
27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
Week

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

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

**Nikhef: 0.52(all) -- 0.52(DG)**

**Daresbury: 0.57(all) -- 0.57(DG)**

**Frascati: 0.62(all) -- 0.62(DG)**

**Turin: 1.19(all) -- 1.19(DG)**

**OL: 2.90(all) -- 2.90(DG)**

**ML: 1.29(all) -- 1.29(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-L-002: 0 bad chips**
**F-OL-HS-U-502: 0 bad chips**
**F-OL-HS-U-123: 0 bad chips**
**F-OL-HS-U-024: 0 bad chips**
**F-OL-HS-U-022: 0 bad chips**
**F-OL-HS-U-005: 0 bad chips**
**F-OL-HS-L-025: 0 bad chips**
**F-OL-HS-L-024: 0 bad chips**
**F-OL-HS-L-023: 0 bad chips**
**F-OL-HS-L-022: 0 bad chips**
**F-OL-HS-L-005: 0 bad chips**
**D-OL-HS-U-020: 0 bad chips**
**D-OL-HS-U-008: 0 bad chips**
**D-OL-HS-L-008: 0 bad chips**
**A-OL-HS-U-120: 0 bad chips**
**A-OL-HS-U-019: 0 bad chips**
**A-OL-HS-L-021: 0 bad chips**
**A-OL-HS-L-020: 0 bad chips**
**A-OL-HS-L-013: 0 bad chips**
**B-ML-HS-U-042: 0 bad chips**
**B-ML-HS-U-014: 0 bad chips**
**B-ML-HS-L-042: 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