



HF jets analysis

02.03.2020 ALICE@IFJ meeting

Sebastian Bysiak

1. CERN activities
 - last week
 - overview
2. Plans for next week

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2. Plans for next week

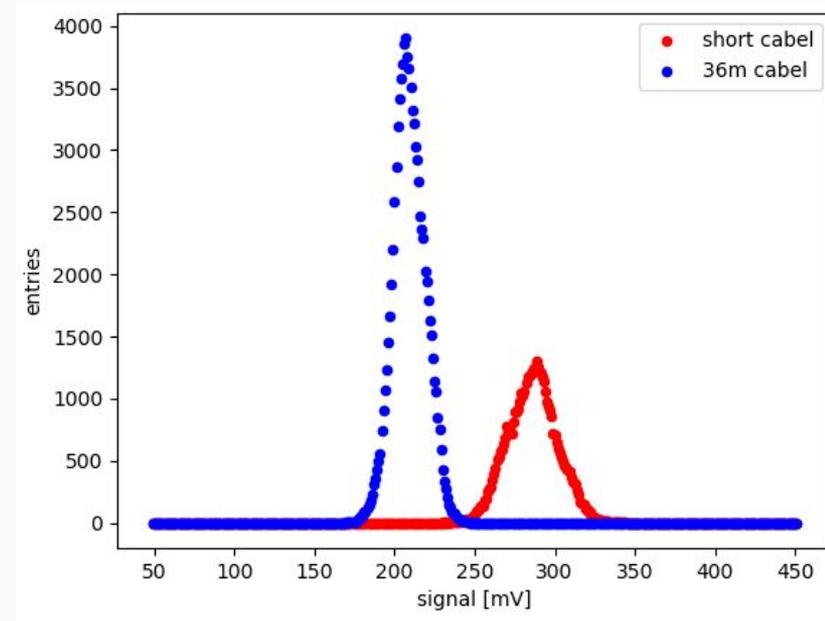
Last week at CERN



- last sectors (CD): cables covered with copper shielding - ripple removed
- attenuation of 36m cable (~28%)
- signal shapes (in time domain) for multiple sectors
- calibration with muons and laser

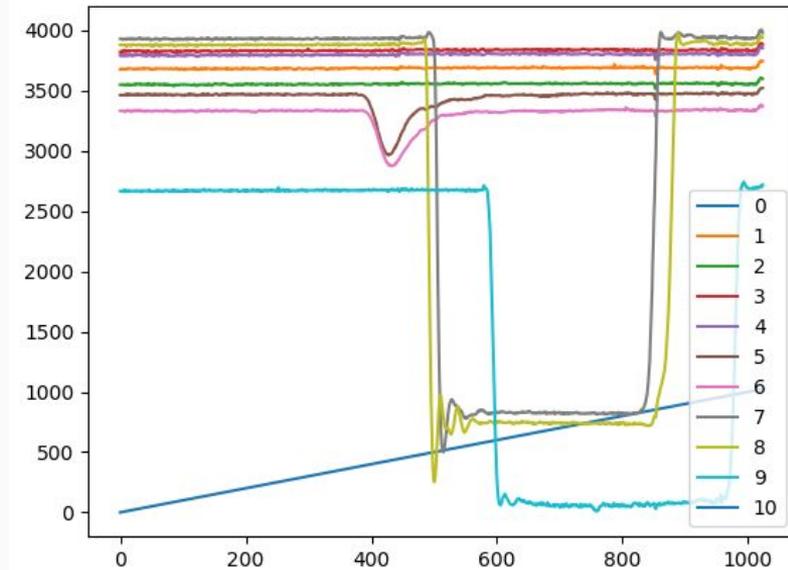
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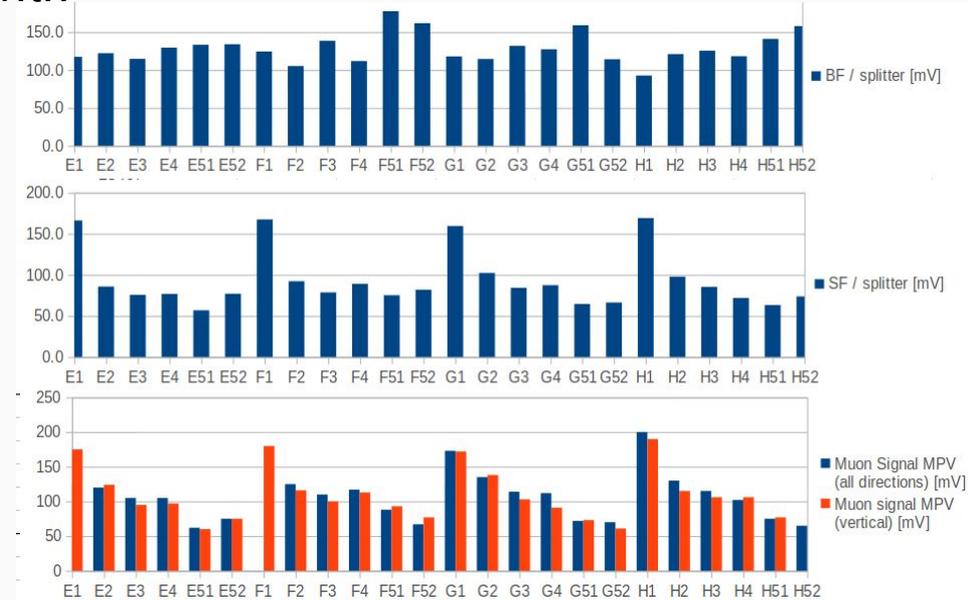
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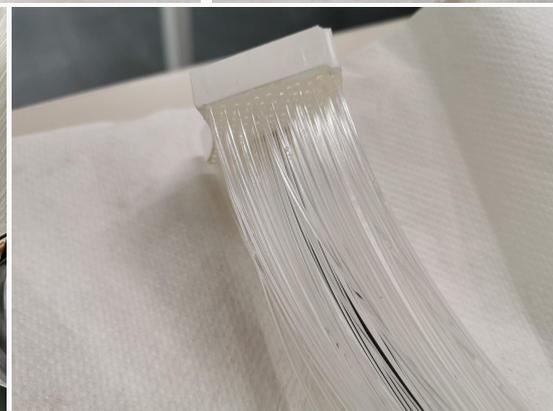
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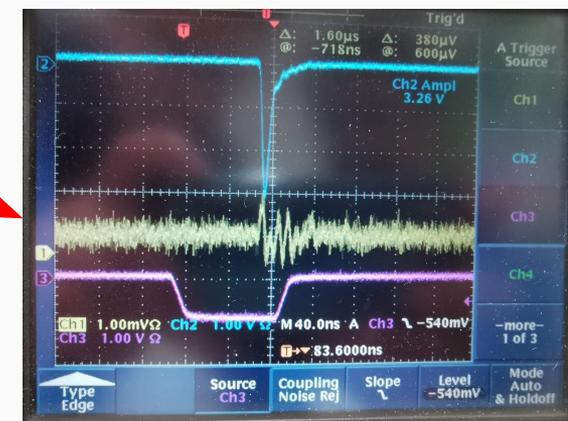
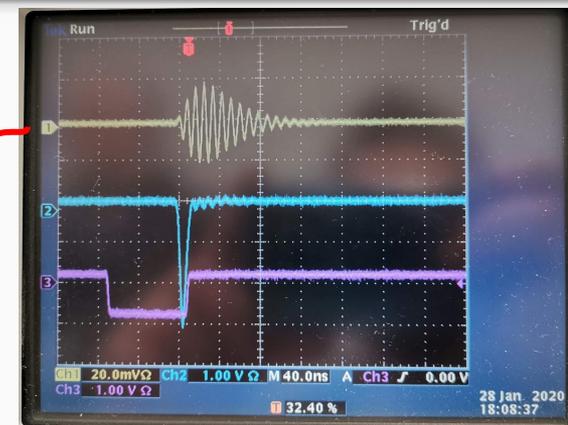
CERN overview

- installation of PMTs and closure of covers
- non-optical signal picking (aka ripple)
 - copper shielding
 - anodized surface removal
 - reduced from 20 mV to < 1 mV
- optical cross-talk measurement and correction (to ≤ 1 mV for 3V signal)
- calibration with cosmics and laser
- others: CFD, attenuation, signal shapes ...



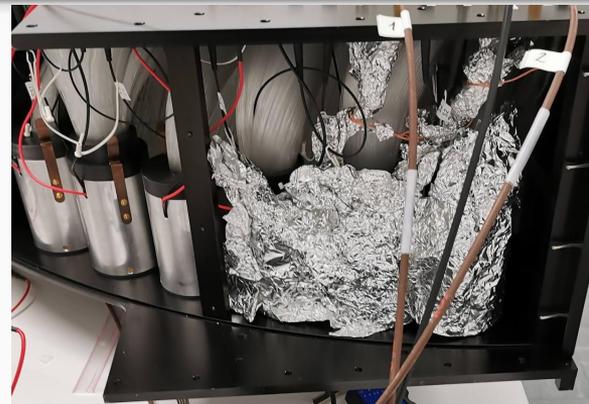
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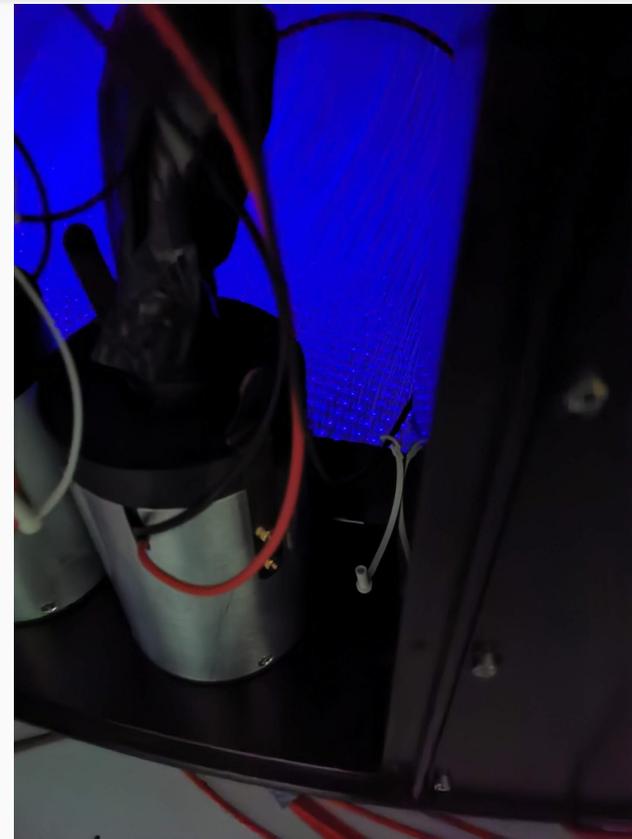


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Plans for next week



1. Analysis

- IPd/z mean & stddev as a function of pT
- train model
- SV: how to select, how many are really affected with huge N_SV?

2. O2-QC

- T0 and V0 have the same data format
- use RawDataReader from Ruben for viz. of T0 data

BACKUP



```
lower_edges=( 5 7 9 12 16 21 28 36 45 57 | 70 85 99 115 132 150 169 190 212 235)
higher_edges=( 7 9 12 16 21 28 36 45 57 70 | 85 99 115 132 150 169 190 212 235 -1)
```

momentum dispersion:
$$p_T D = \frac{\sqrt{\sum_{i \in jet} p_{T,i}^2}}{\sum_{i \in jet} p_{T,i}}$$

angularity:

