### **Status Report**

Cosmics with the ALPIDE Telescope

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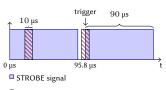
September 22th, 2020

## Back in May ...

- Limited access to GSI
- Set up the telescope to be pointed towards the sky and record cosmics
- At first no scintillators available

# Method of operation

- Use a NIM signal generator to create artificial triggers for the chips.
- Trigger every ~100 μs
- · That way no event should be missed



Discriminator signal

### Back in May ...

#### **PROs**

- · Running "without" external trigger possible
- Thin time slices makes it really unlikely to detect two muons at the same time, especially from similar angles.

#### **CONs**

- > 10000 Events per second (mostly empty)
- 4.4 MB per second of Data written to the disk
- EUDAQ 1 crashed often at filesizes  $> 5~\text{GB} \to \text{Runtime limited to} \approx 17~\text{min}$