

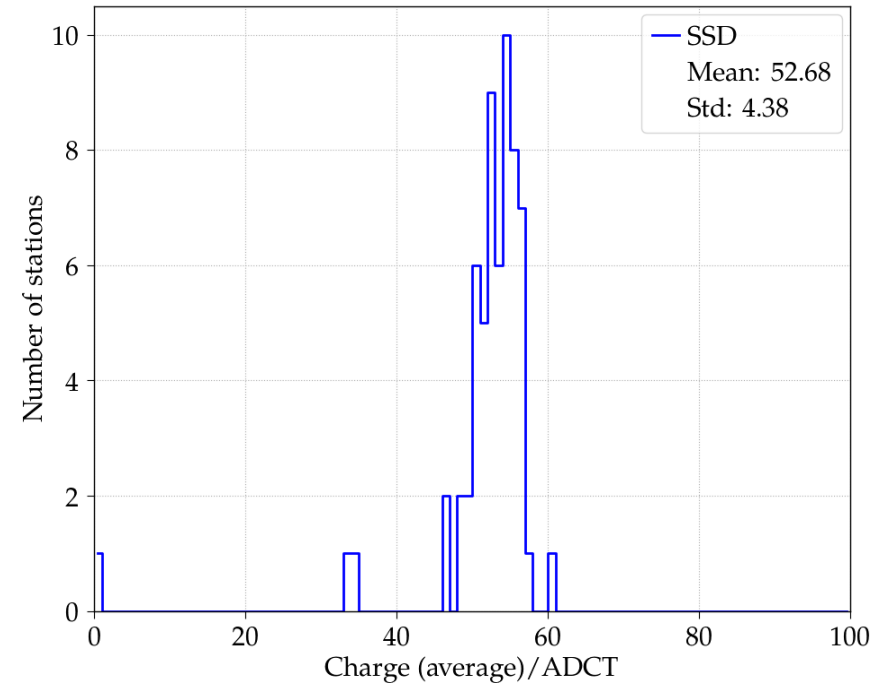
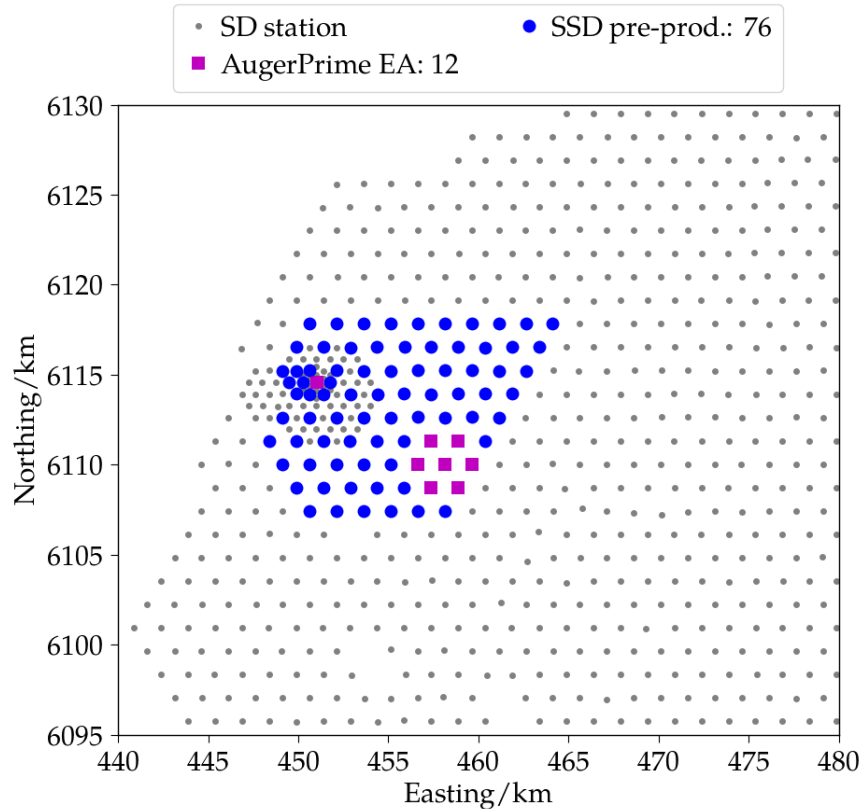
# Status and Performance of the SSDs in the Field

17/03/2022

Alexander Streich (KIT), Matteo Conte (INFN Lecce), Fabio Convenga (KIT)

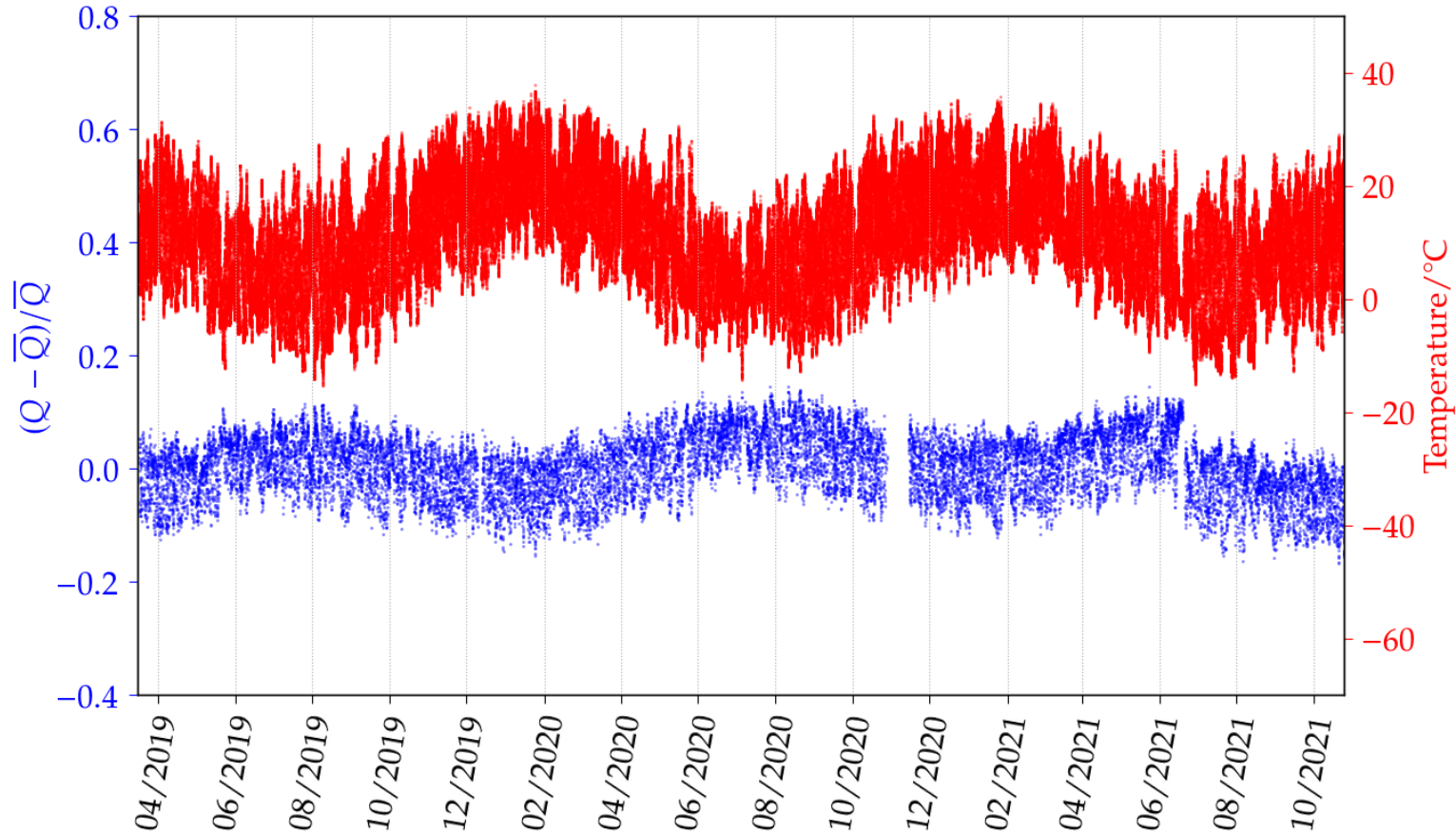
# SSD Pre-production Array

- 76 stations with UB: March 2019 to October 2021



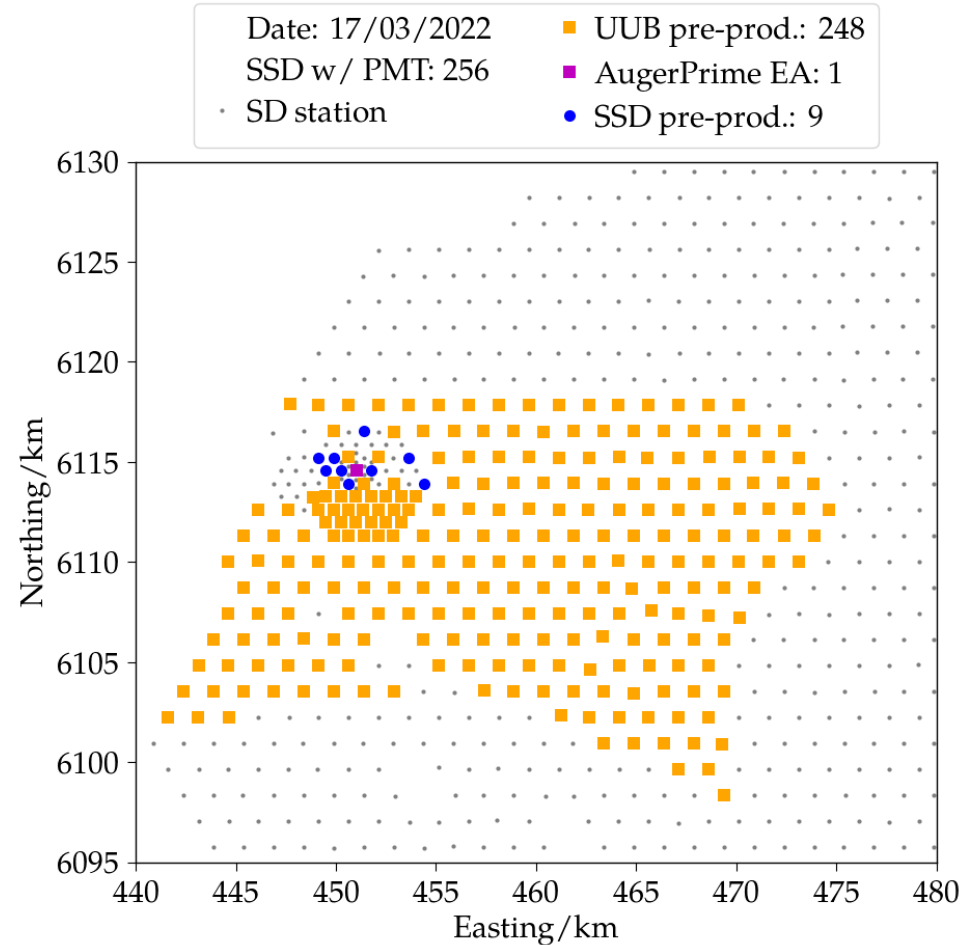
# SSD Pre-production Array

- Temperature information from Auger weather data

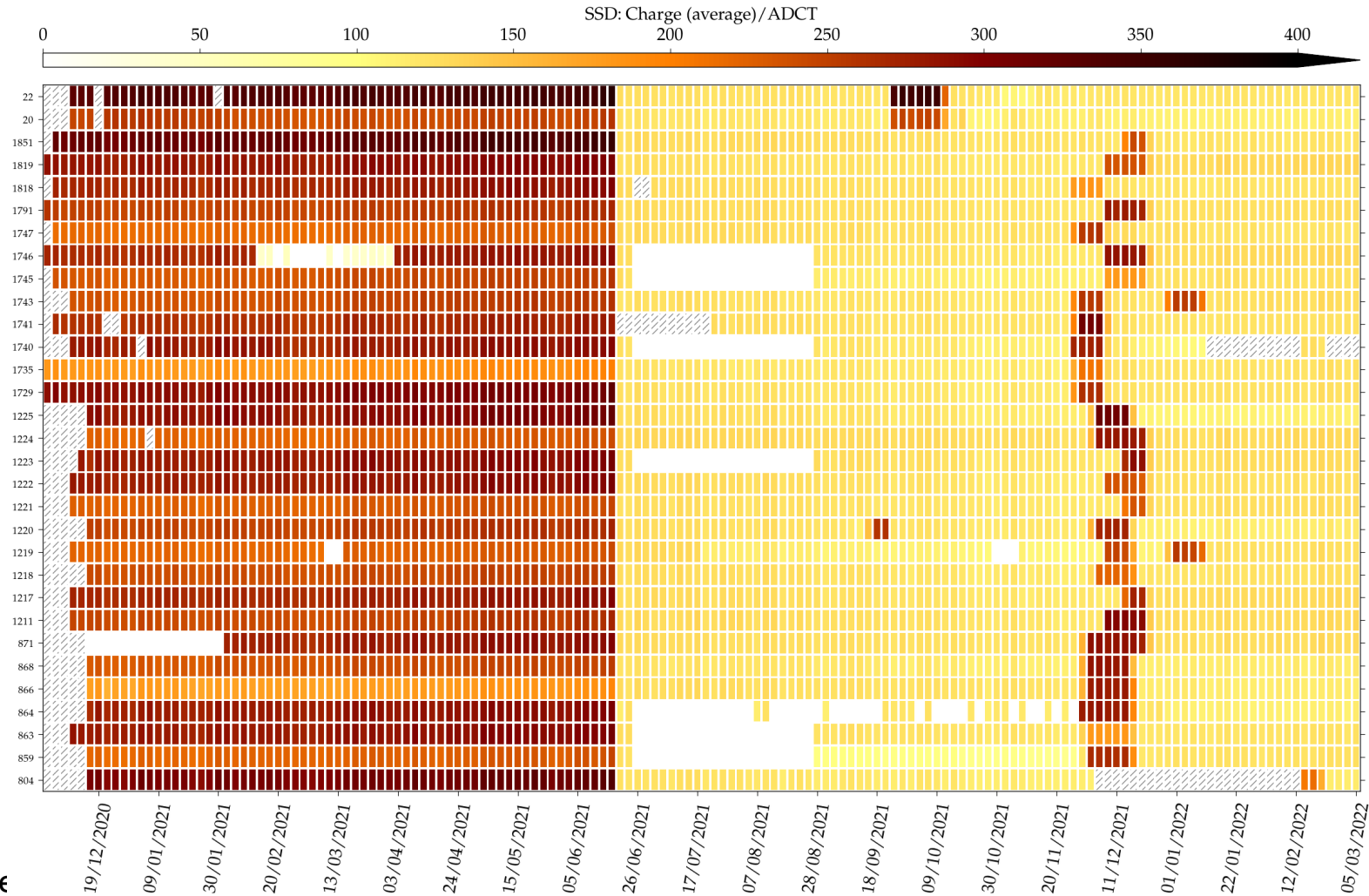


# UUB Pre-production Array

- Start in December 2020:

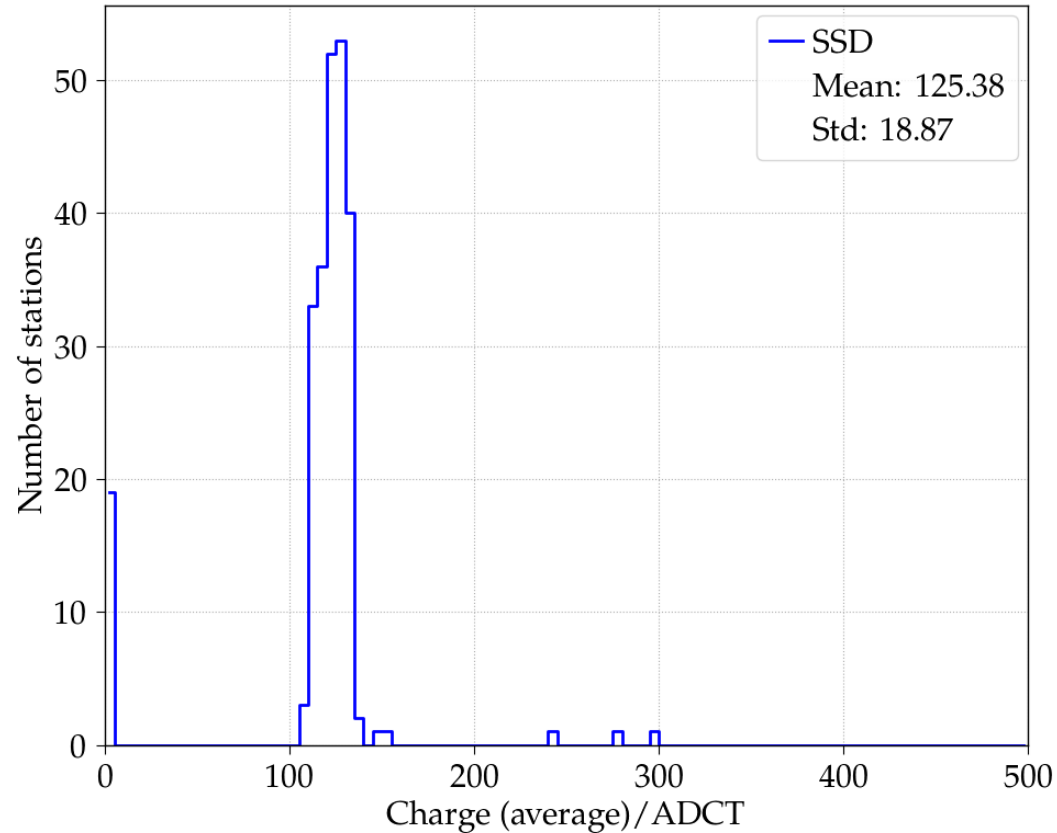


# UUB Pre-production Array



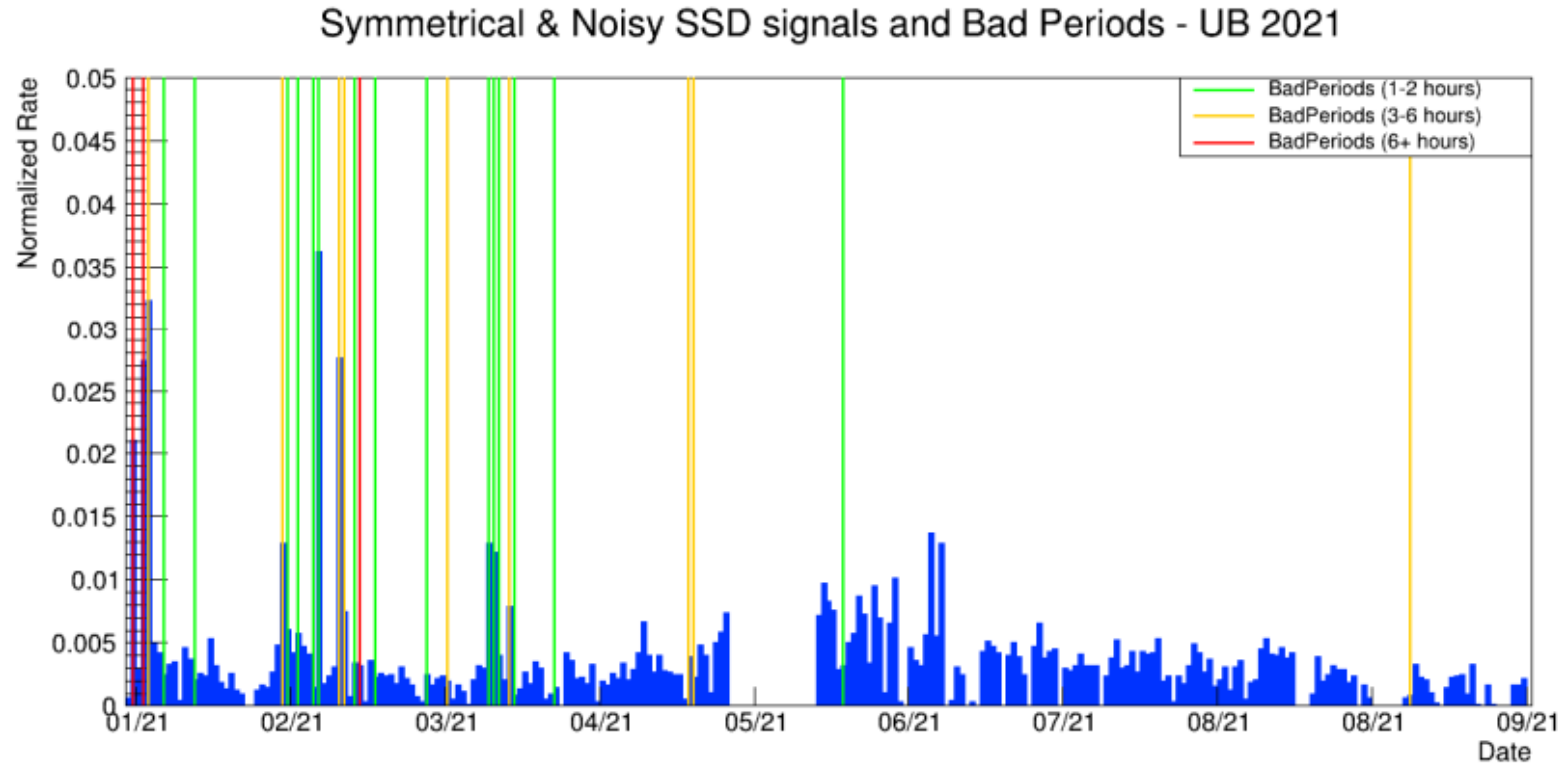
# UUB Pre-production Array

- Start in December 2020:



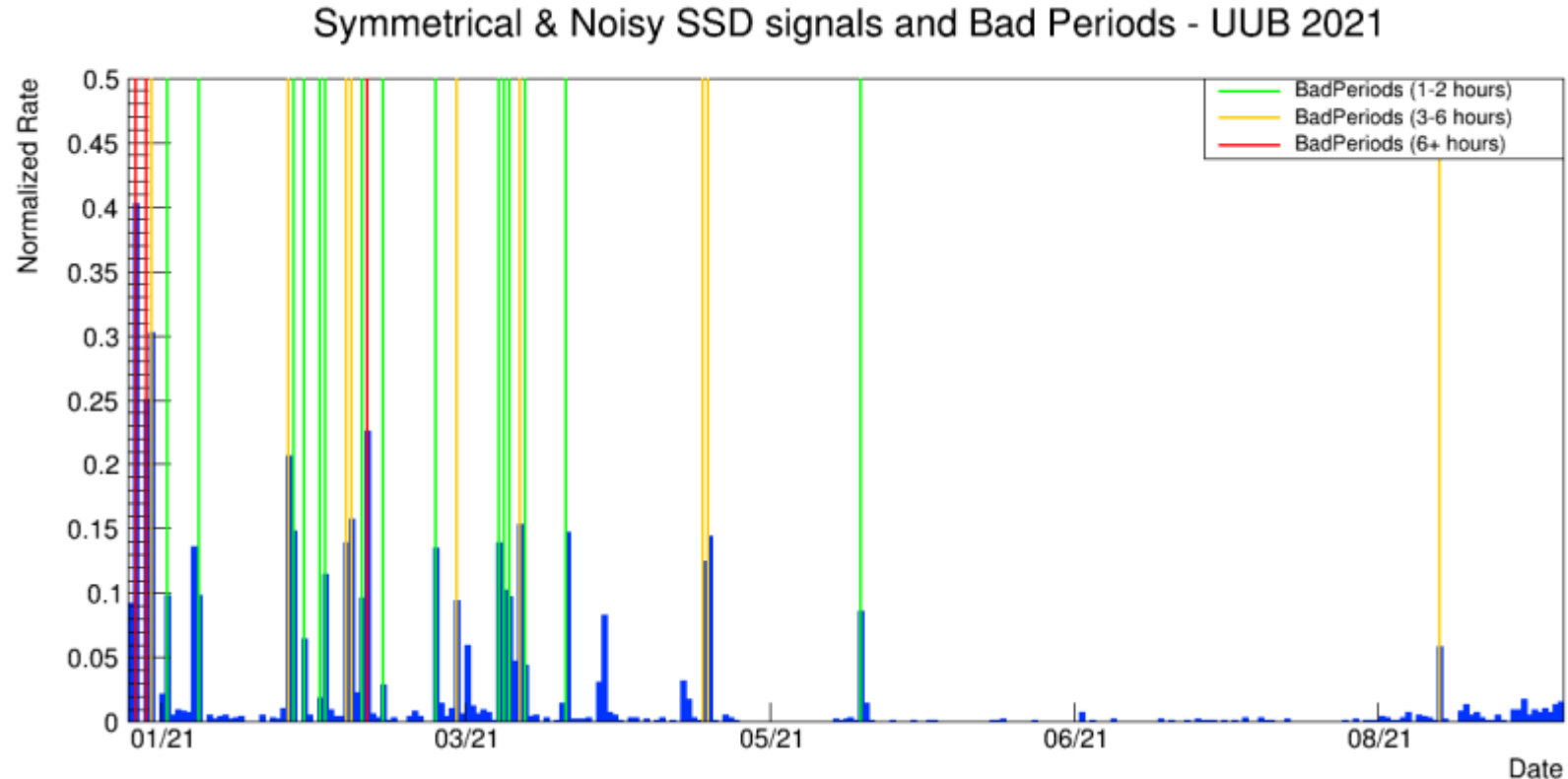
# UB: Bad Periods

- Selection of events with symmetrical noise pulses in first trace bins



# UUB: Bad Periods

- Selection of events with symmetrical noise pulses in first trace bins





# Summary & Outlook

- 2.5 years of SSD pre-production array data (connected to UB)
- Stable performance of SSDs
- Since December 2020: SSD data from the stations in the UUB pre-production array
- Differences in noise levels between UB and UUB
  - Check of the trigger thresholds for noise events
  - Compare noise behavior in UUB stations with and without installed SSD