

# DAQ

## Workshop Summary

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B2 TRG/DAQ WS,  
Yonsei University, 08/29/2019

# At 2018 TRG/DAQ Workshop

- We had just finished Phase 2 ...  
... and learned first hand about the meaning of “fragility”

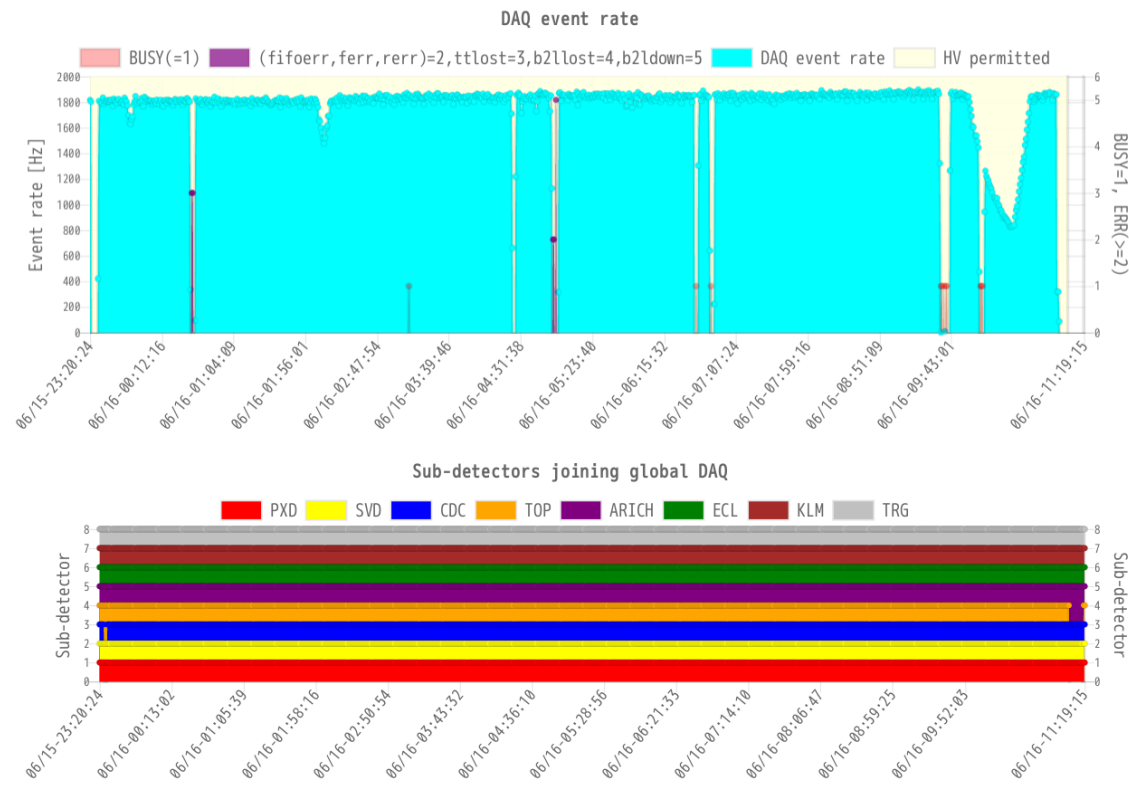
10:00	<b>Summary of Phase 2 DAQ operation</b>	Satoru YAMADA
	Seminarroom 0.014, KIT	09:30 - 10:00
	<b>Issues in Timing Distribution and Belle2link</b>	Mikihiko NAKAO
	Seminarroom 0.014, KIT	10:00 - 10:30
	<b>Issues in COPPER and Readout PC operation</b>	Satoru YAMADA
	Seminarroom 0.014, KIT	10:30 - 10:50
	<b>Break</b>	

- First members were added to extended DAQ core group
  - mostly helped by taking over DAQ shifts and thus learning about the Belle II DAQ system

# 2019 TRG/DAQ Workshop

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... and reached up to 95% data taking efficiency (on a good day)

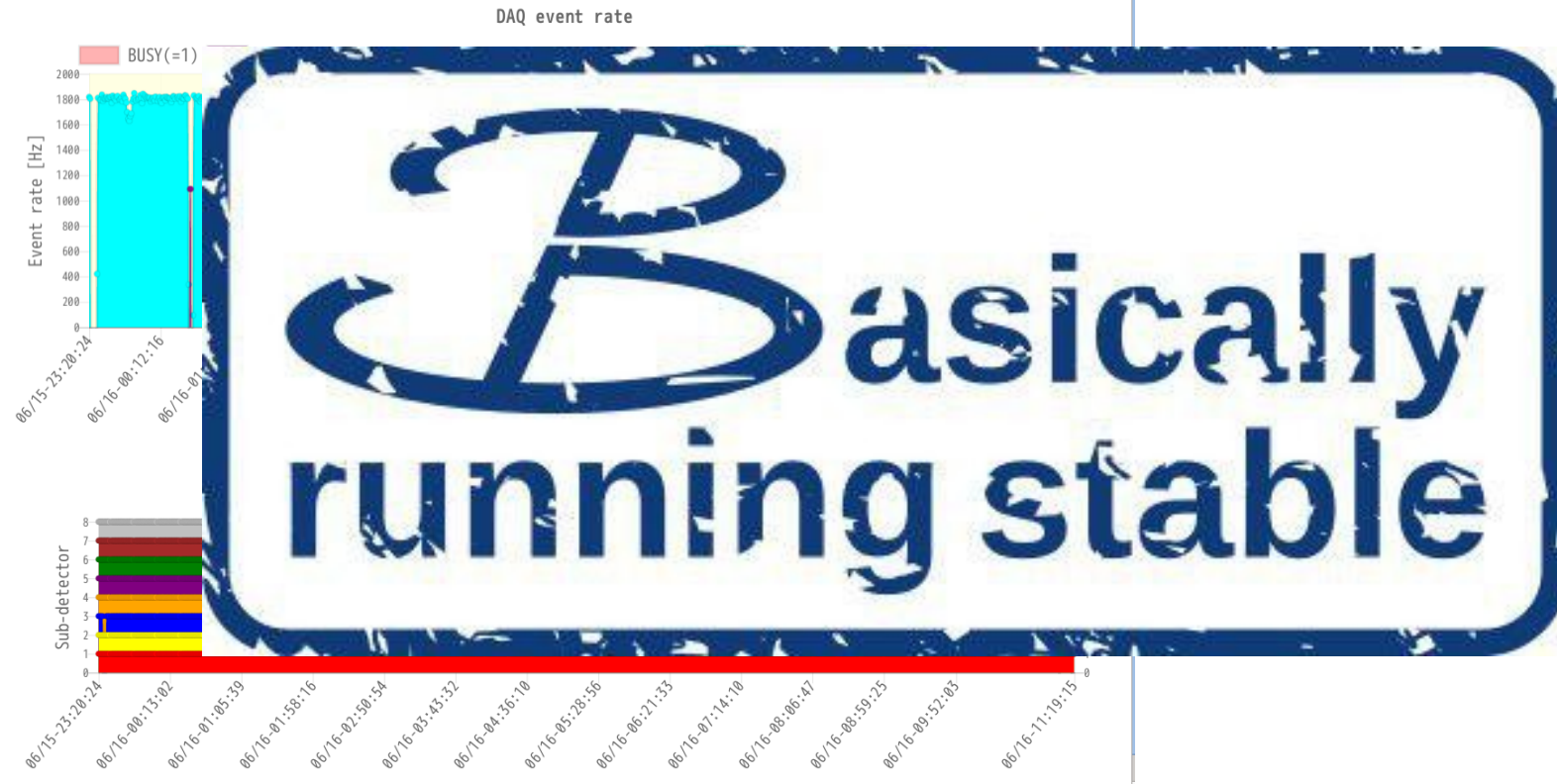
Livetime in 12hrs(rough estimation) = **94.0 % (94.0 % w/ all subsystems)**  
While HV\_permitted :**95.5 % (95.5 % w/ all subsystems)**



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# 2019 TRG/DAQ Workshop

- Improvements to Phase 3 efficiency from many subsystems
  - HLT stability
  - SLC reliability
  - Improvements on the subdetector side
  - etc..
- Many of these improvements with strong contributions from extended DAQ core members
  - I think opening up the DAQ group for extended members continues to be very successful
- I was happy to see many presentations and active participation by students in this workshop

# DAQ Upgrade

- Two proposals have already partially demonstrated the needed functionality
  - We are looking forward to the first results from “real” detector data readout ...  
... and a technology decision at October B2GM.
- 2018 WS, Yamada-san: first plans for upgrade testbench
- 2019 WS, Yamada-san et. al.: testbench exists
- 2020 WS, everyone: large scale system tests.

# Near Future

- Global cosmics in 4 weeks, beams in 6 weeks
  - Several tasks to be finished

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eat.



sleep.



SALS.



repeat.