

KLM Bubbler updates

KEK updates

Michele, Noah, Sayan, 8th November, 2023

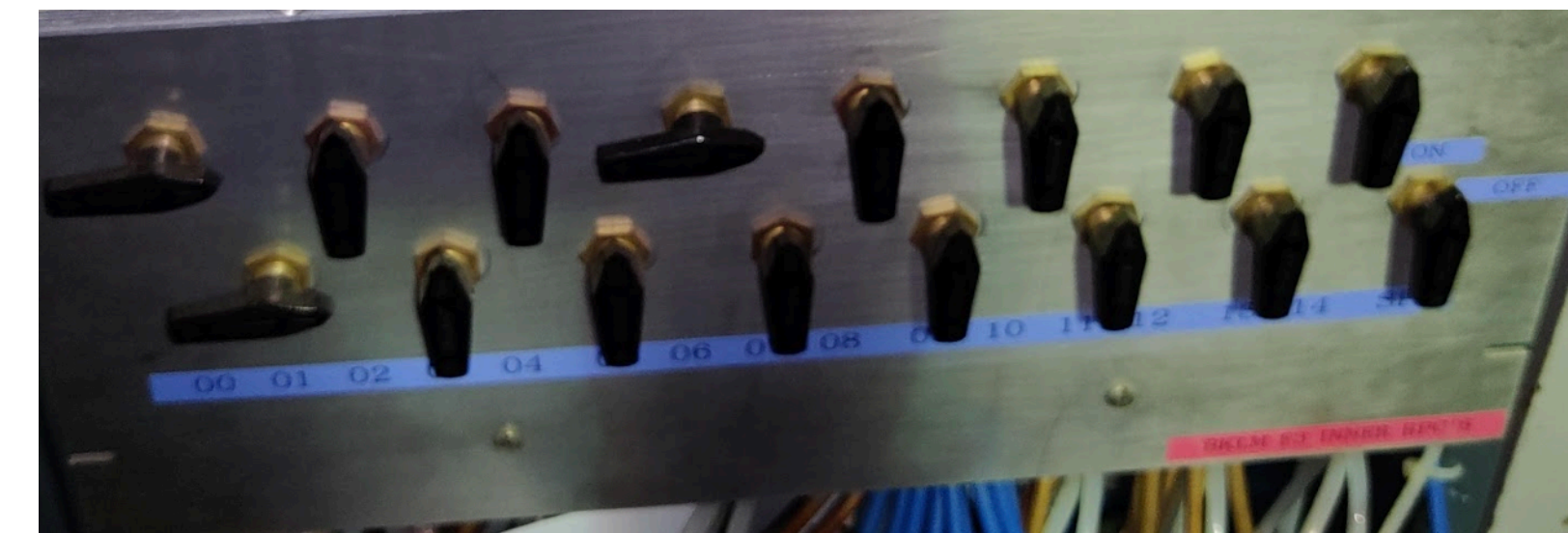
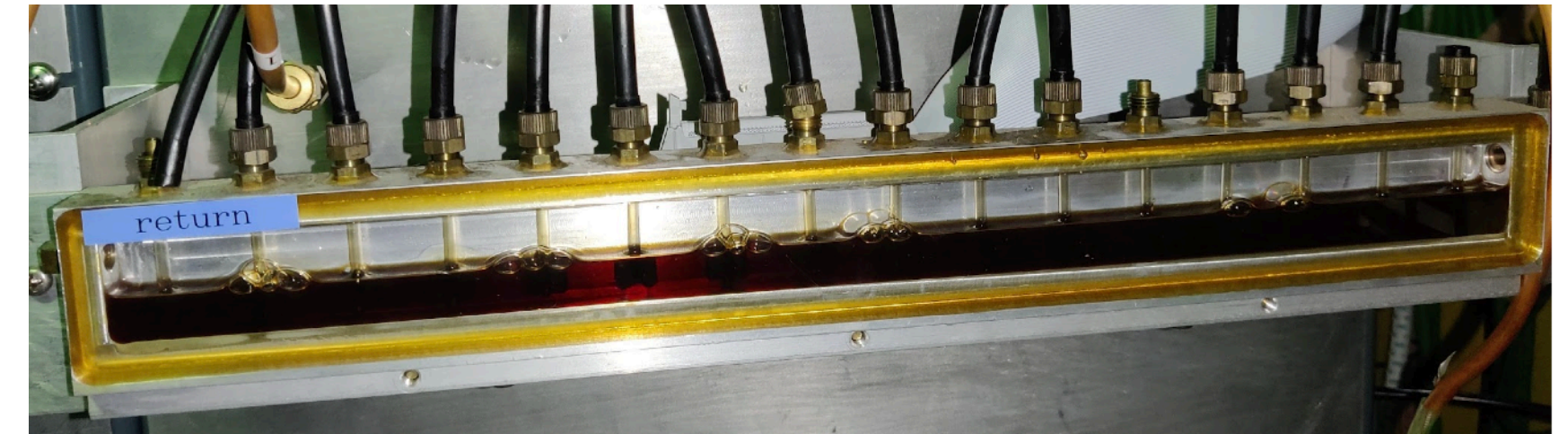
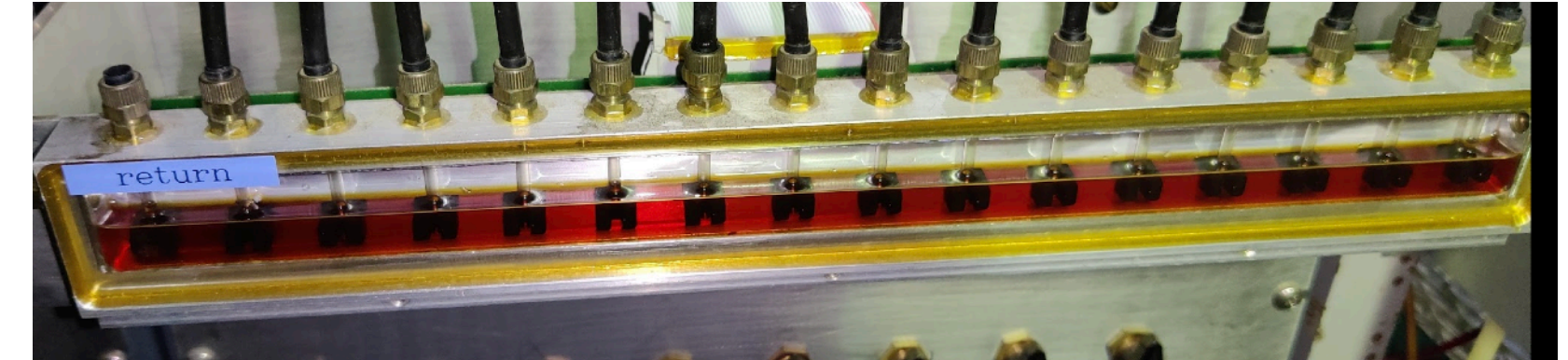
- Return side BB0,BB7,BF0,BF7 connected
- Power supply voltage adjusted
 - 5.06 ± 0.01 V to 5.10 ± 0.01 V
- Two readout boards connected to same power supply(pin based)
 - One that was already connected still shows undervoltage ~once every two minute
 - Other one doesn't

Inventory of disconnected channels

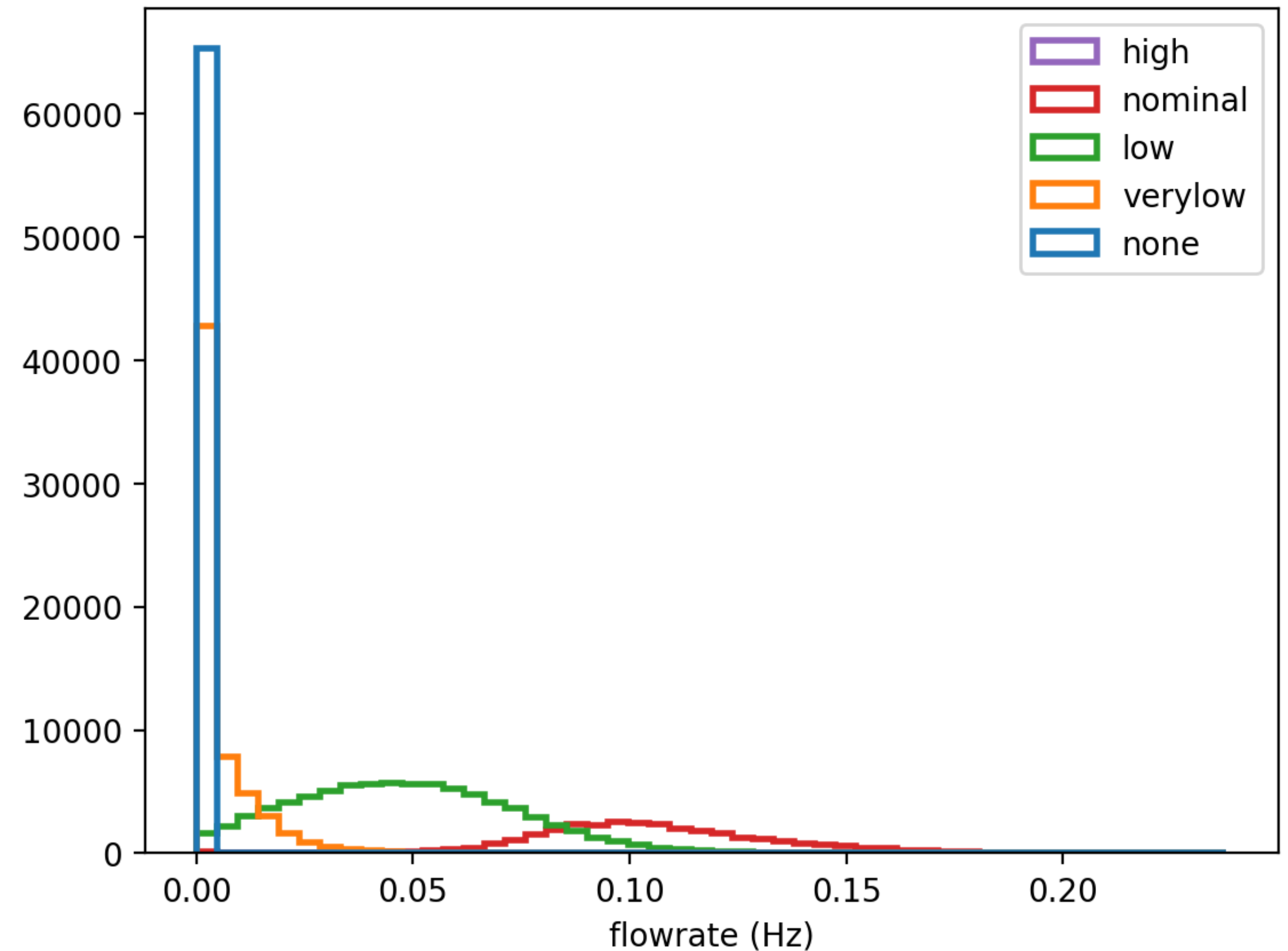
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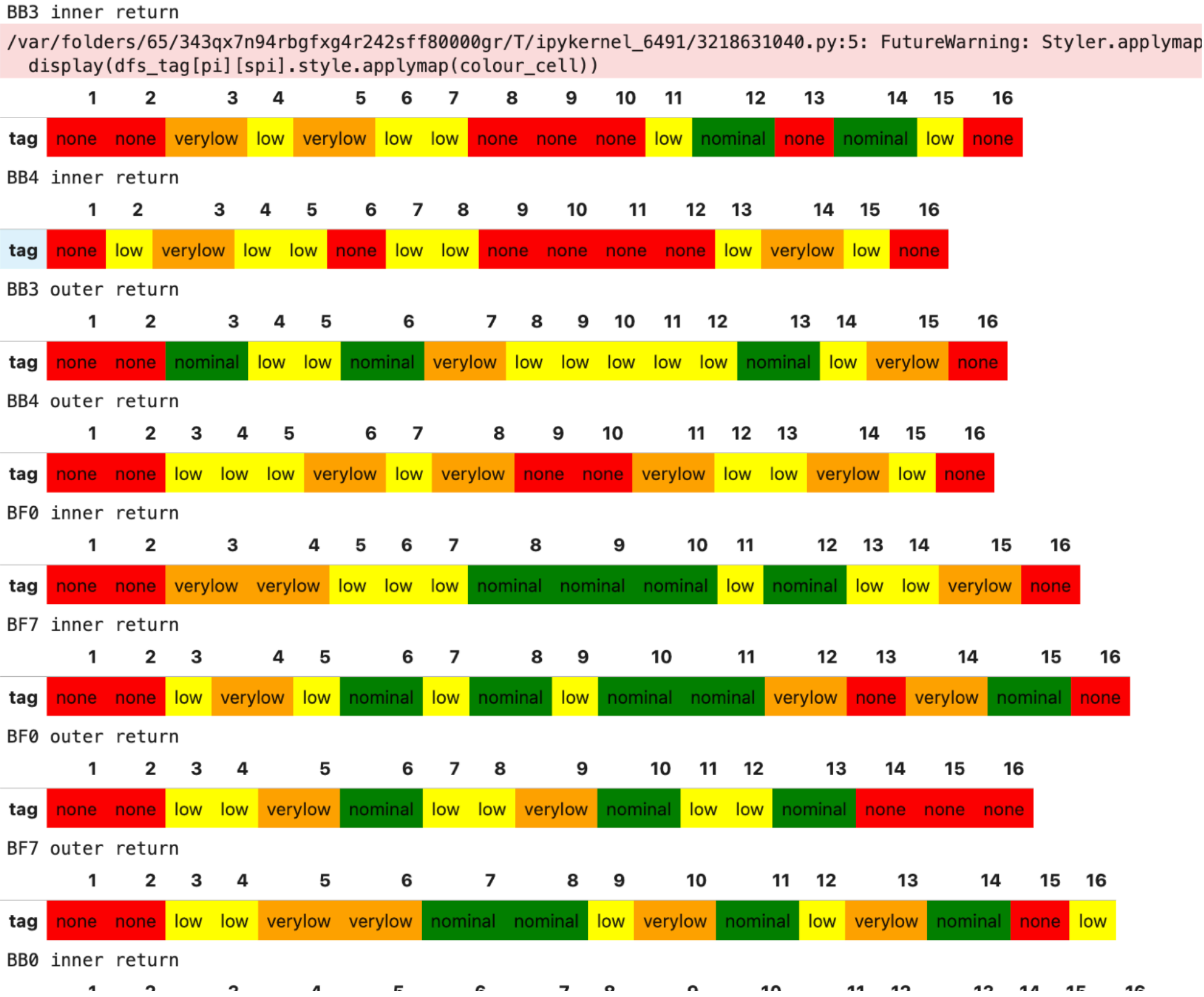
- Some bubblers(mostly 0,1,15) have no pipes connected
 - Not consistent, so taken inventory
- Some supply panels(mostly 0,1,15) have switches turned off
 - Not consistent, so taken inventory
- To make sure we see zero flowrates in readout of those channels



- Label channels based on average flowrate and plot histogram
 - None: no flow
 - Verylow: $< \sim 1$ bubble per minute
 - Low: $< \sim 5$ bubbles/min
 - Nominal: $< \sim 12$ bubbles/min
 - High: more than any of them
 - no channels recorded to have so



Flowrate histogram



(Bubblers with no inflow pipe not subtracted)

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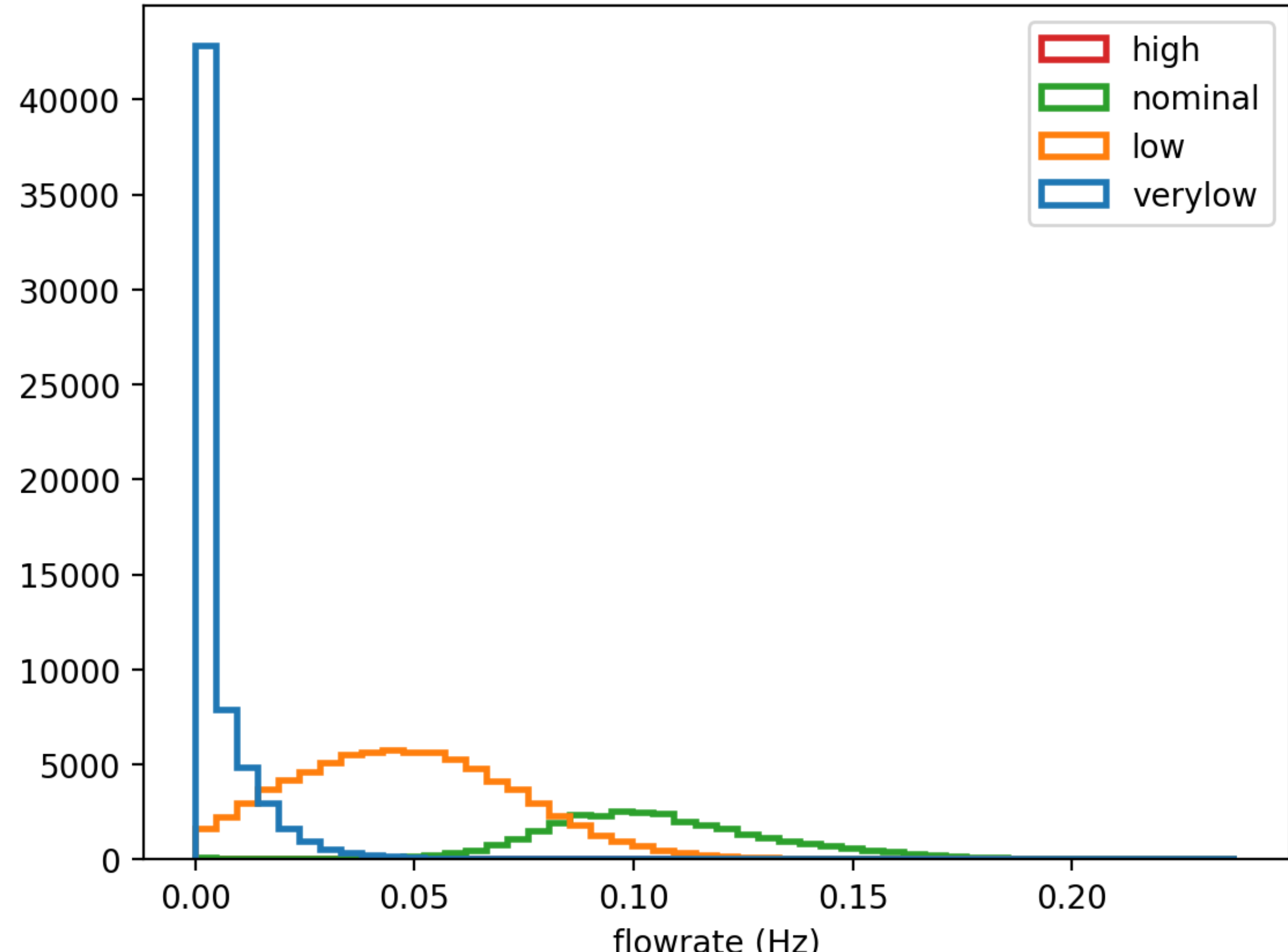
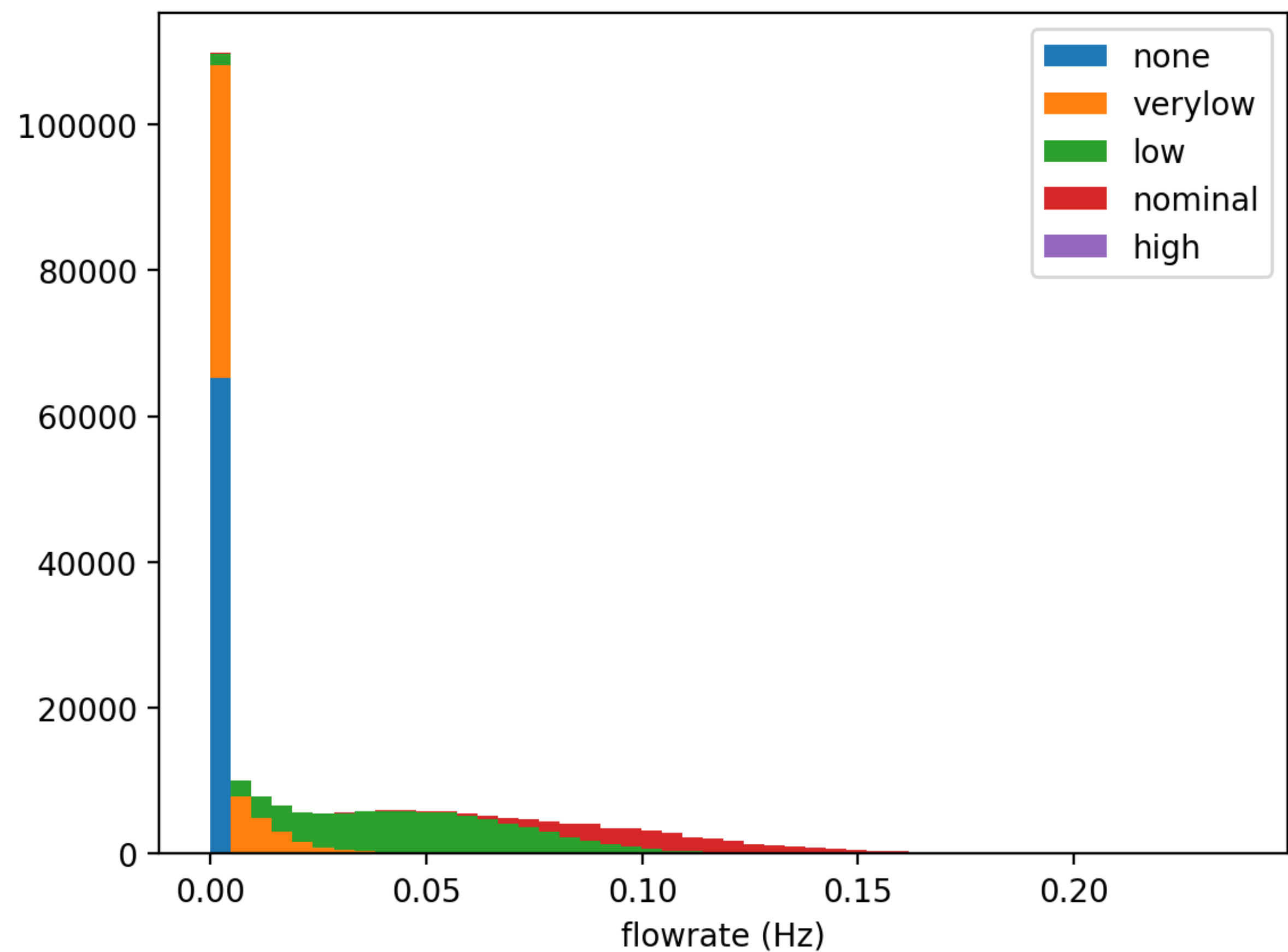
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Flowrate histogram

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Flowrate histogram

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