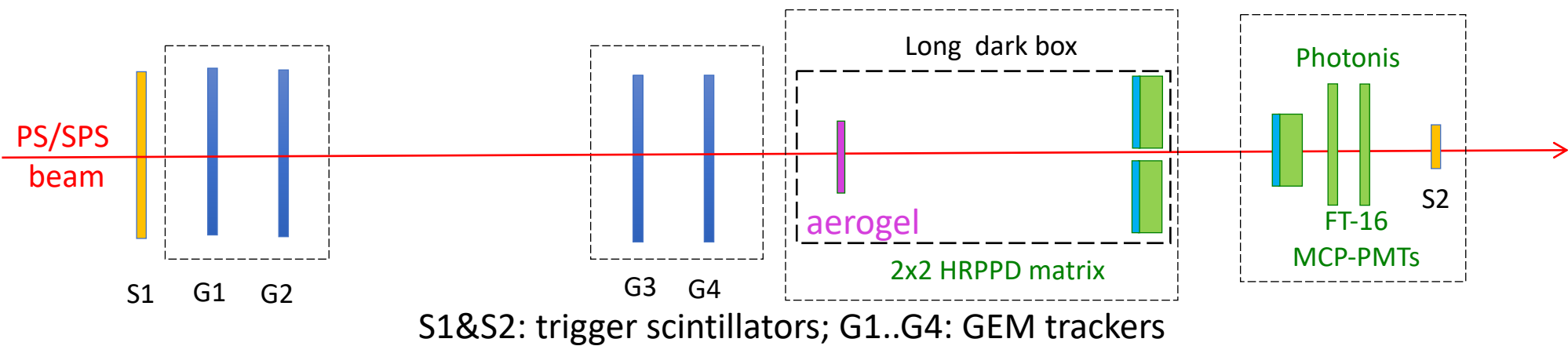
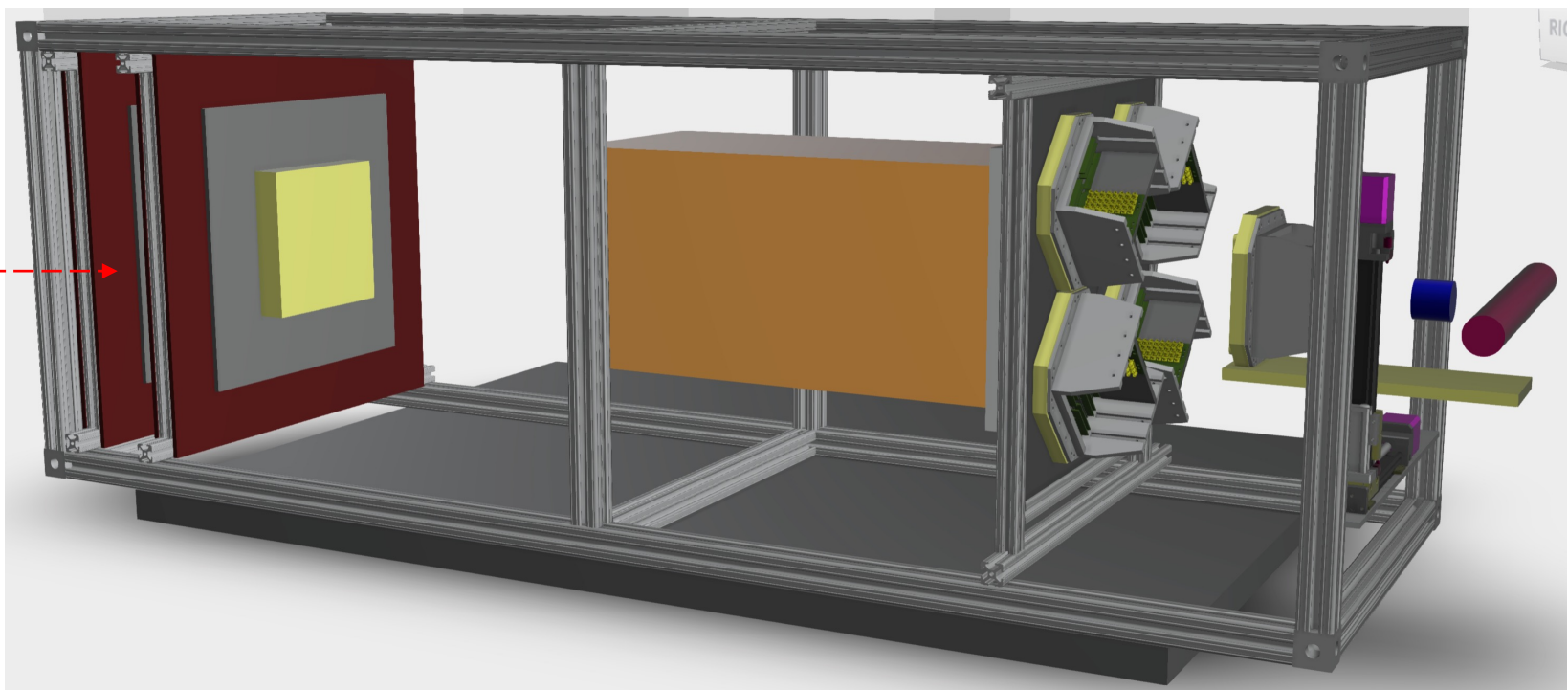


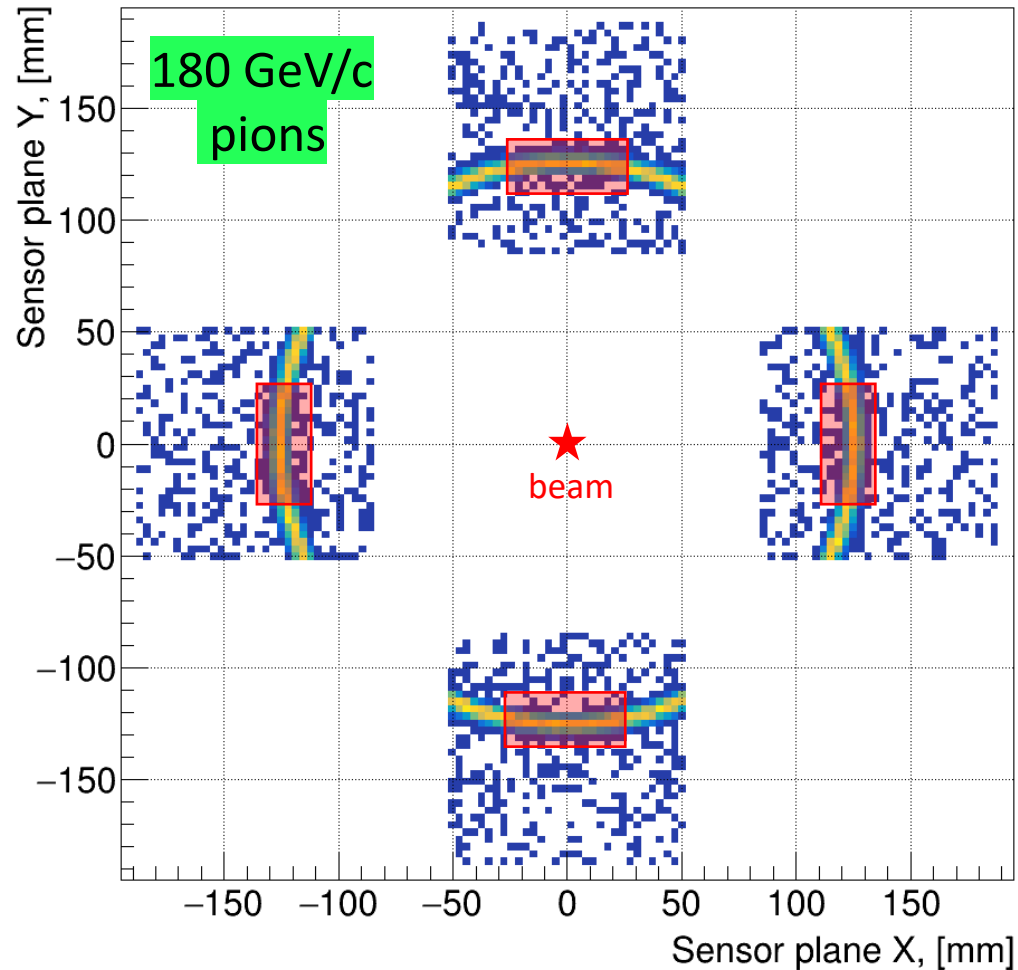
Hardware configuration



Downstream GEMs
In a parking position

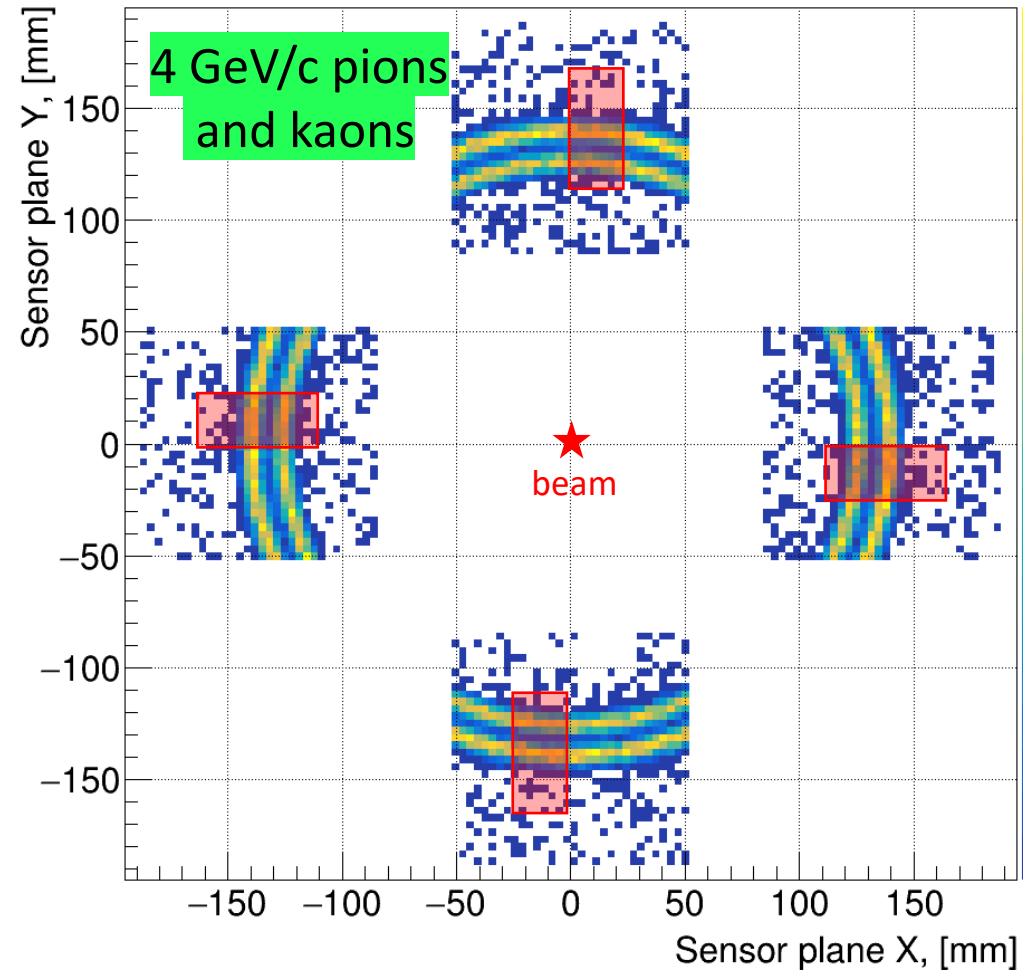


GEANT modeling



“SPS acceptance”

(~1/4 azimuthally; saturated rings; ~403mm exp. volume)

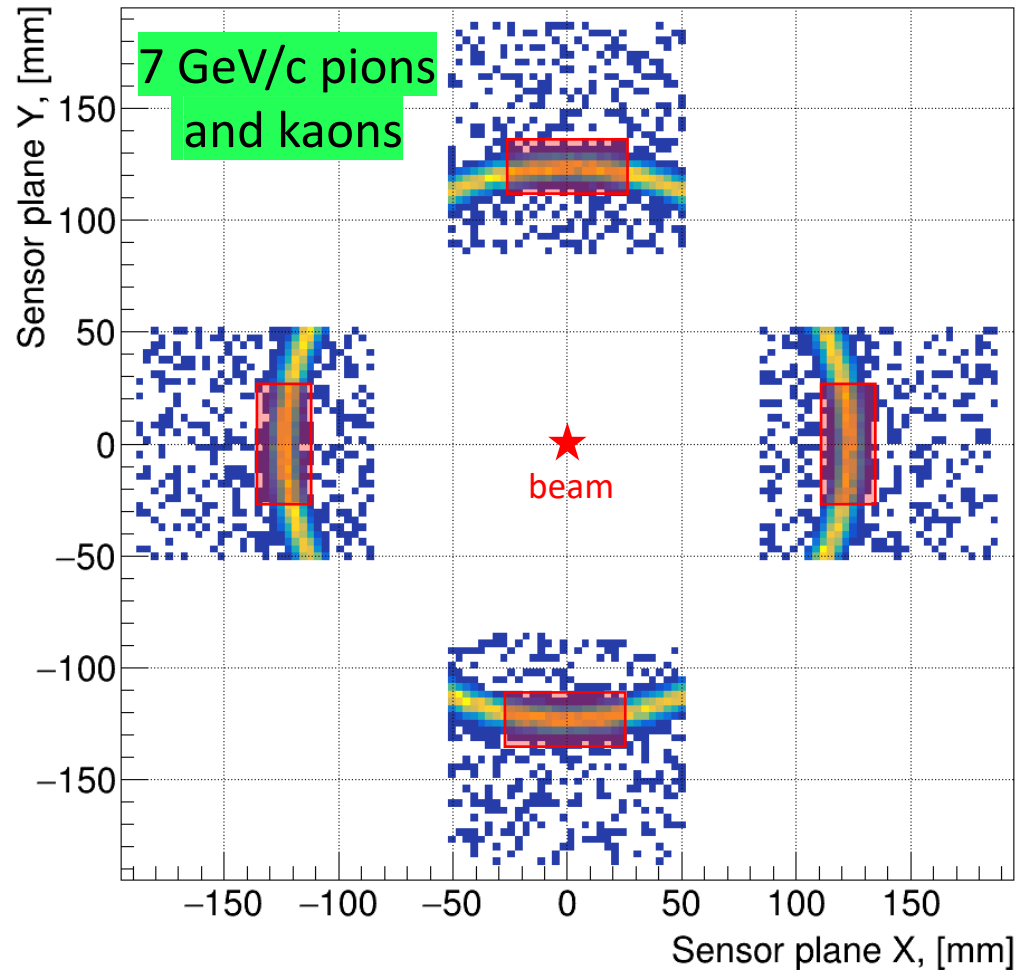


“PS acceptance”

(2x smaller acceptance; π/K ; ~453mm exp. volume)

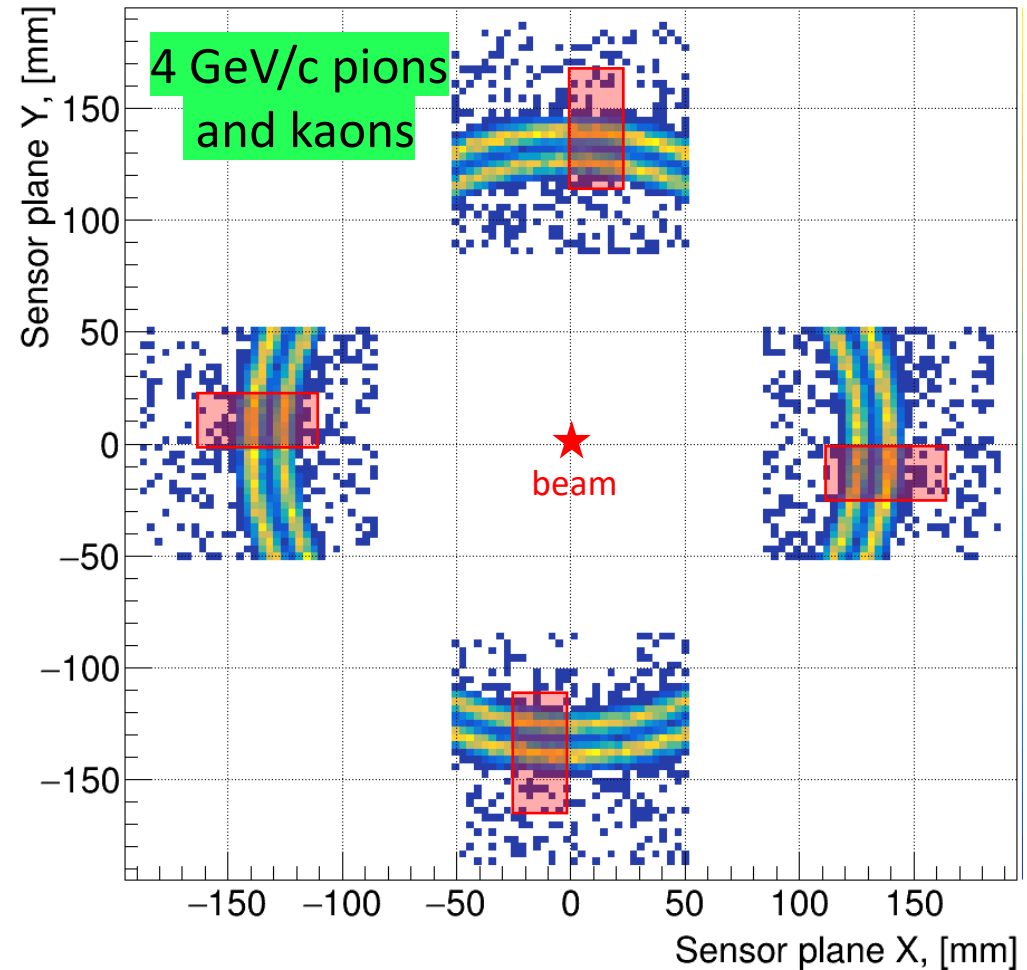
Same HRPPD instrumented area (no need in re-cabling; just a 90° rotation of every HRPPD)

GEANT modeling



"SPS acceptance"

(~1/4 azimuthally; saturated rings; ~403mm exp. volume)

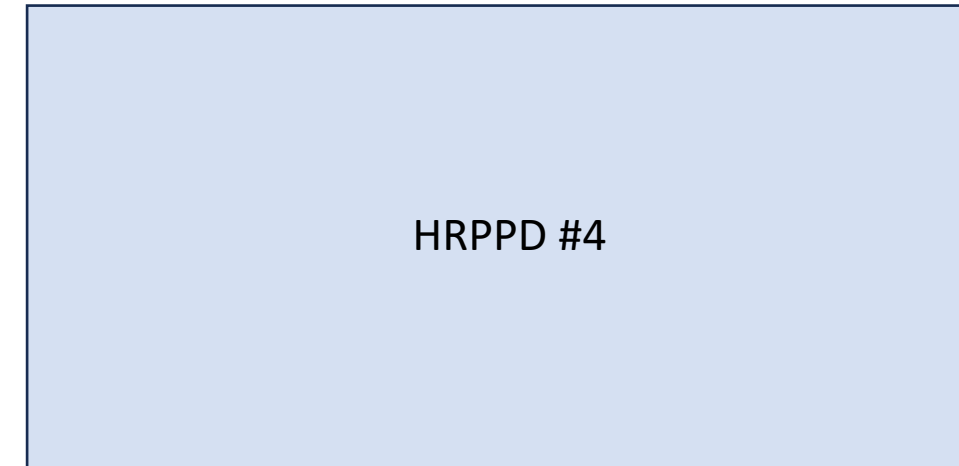
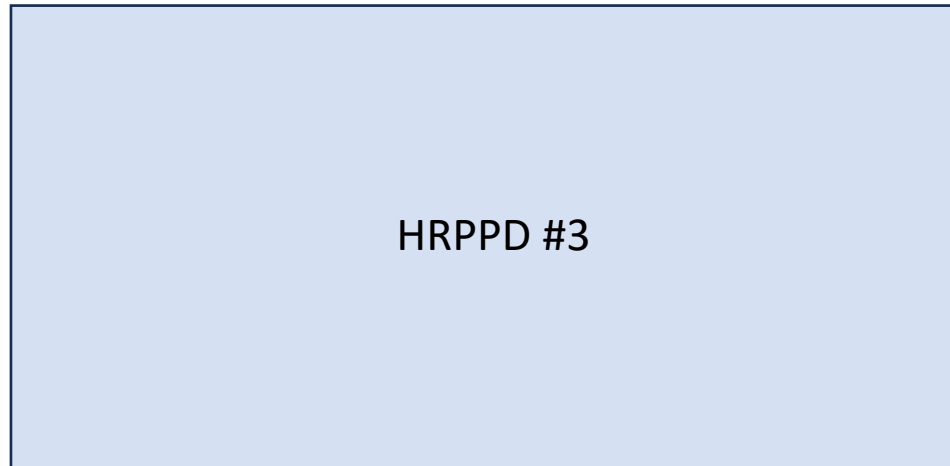
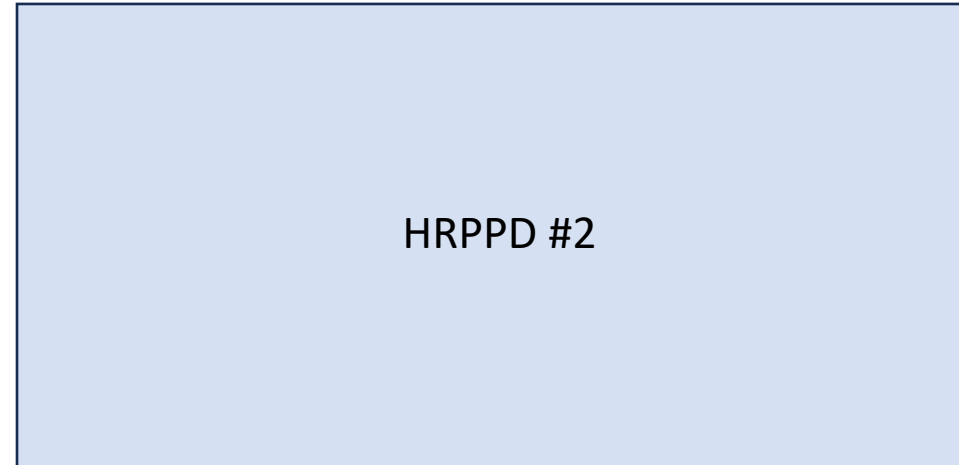
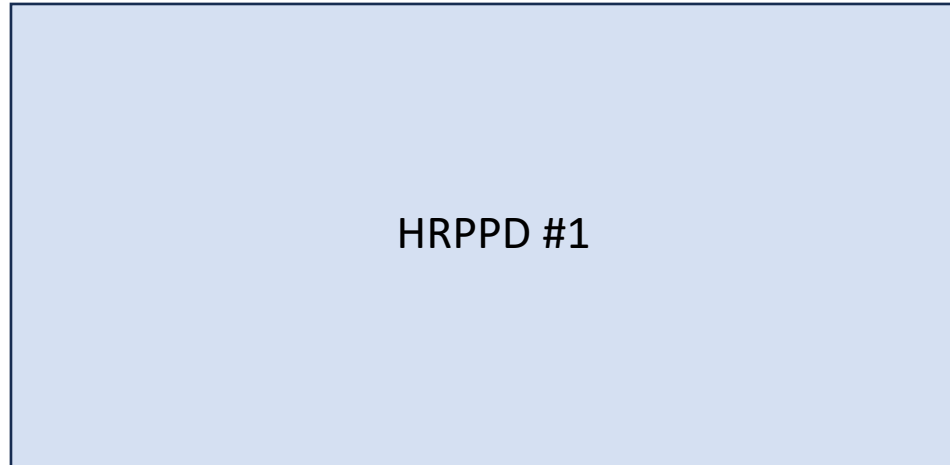


"PS acceptance"

(2x smaller acceptance; π/K ; ~453mm exp. volume)

Same HRPPD instrumented area (no need in re-cabling; just a 90° rotation of every HRPPD)

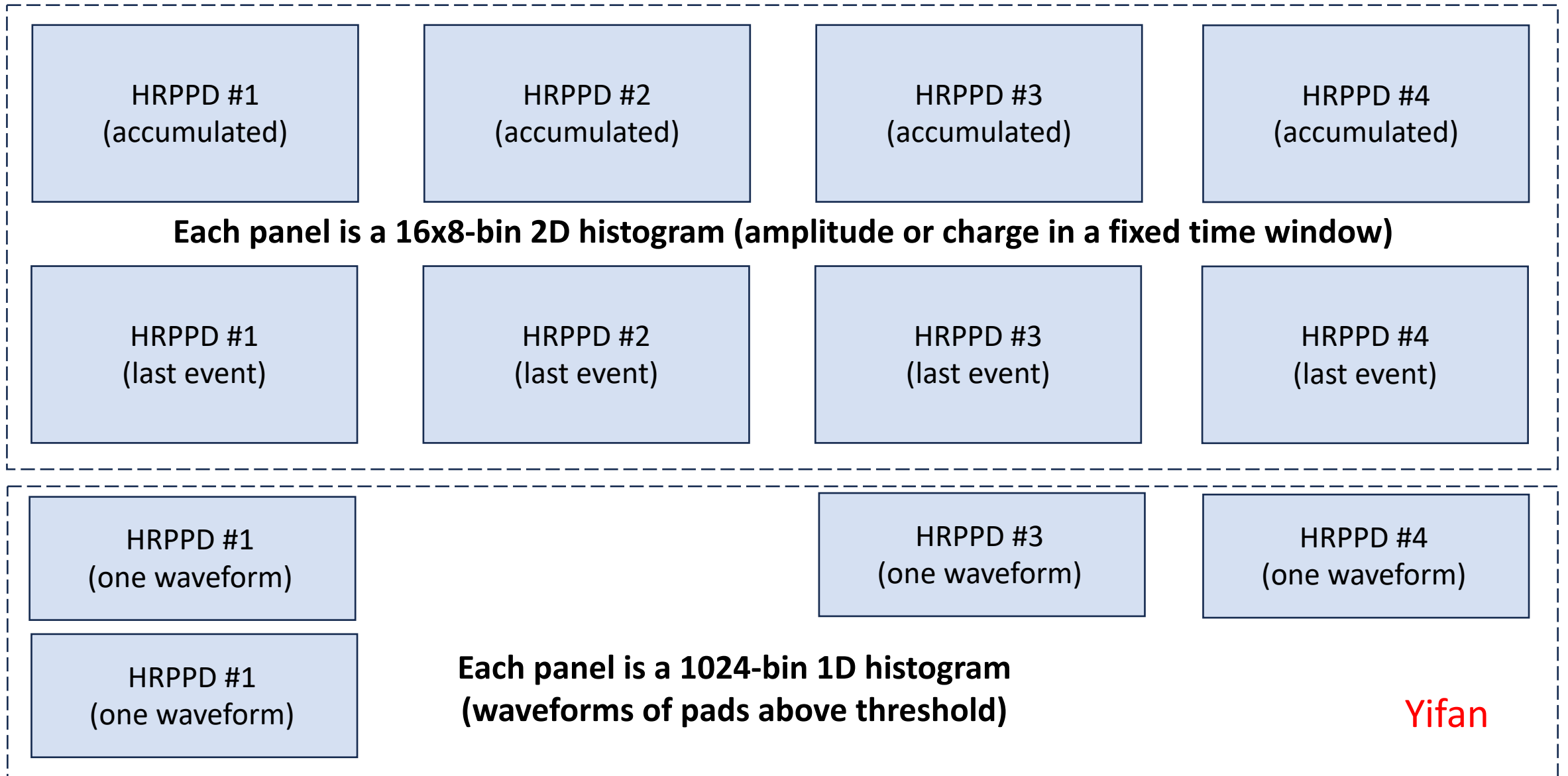
Screen #1: Martin's persistency waveform histograms



Raw 512 waveforms; each panel has 16x8 1024-bin 1D TH1F histograms

Martin

Screen #2: hit maps



Screen #3: Tracker information

4x2 1D wire maps

Some plots confirming that DREAM timing window is set correctly

4x 2D hit maps for single-track events

2x XY-mismatch between GEM1/3 & 2/4 @ aerogel (and HRPPD #5?) location

**This stuff was once written by Barak, then resurrected by Sanghwa,
and is available for testing together with matching .evt files**

Jihee

Screen #4: Control panel

2x CAEN HV windows

RCDAQ control

Command line terminal(s)

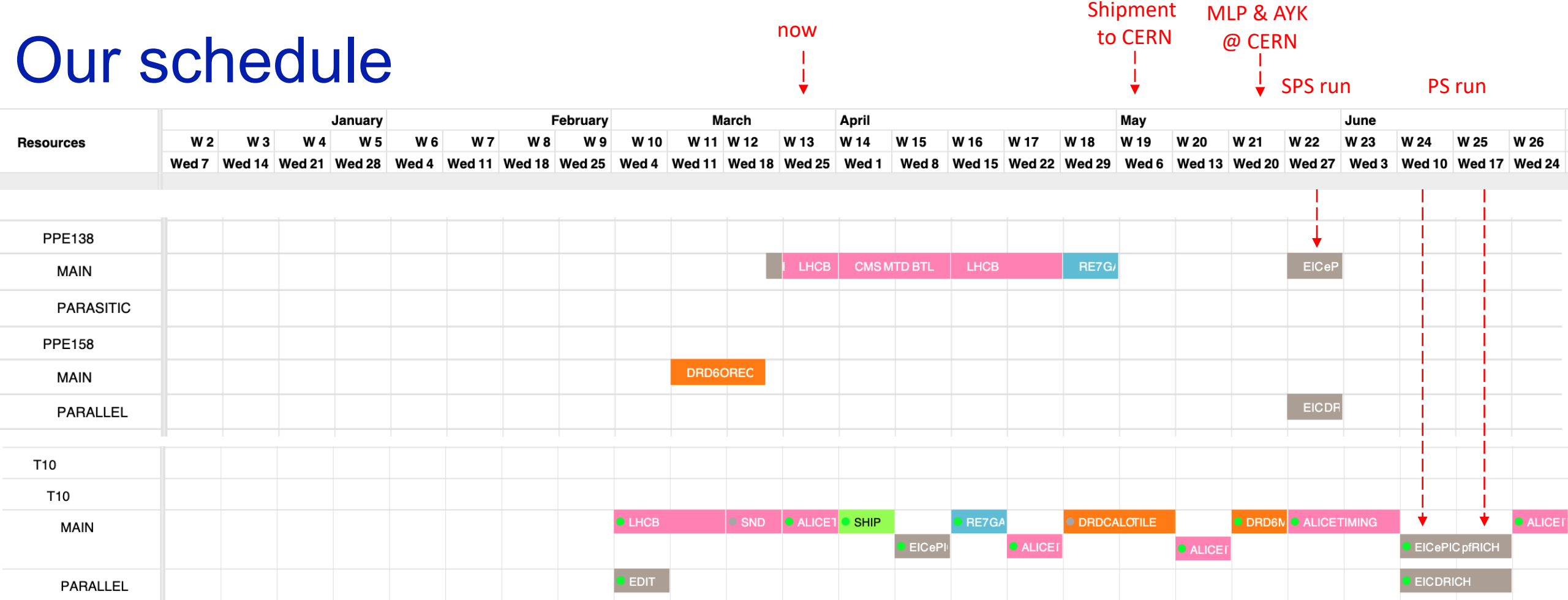
Test beam area info?

DESY table control?

..?

Martin

Our schedule



DAQ, readout, related hardware

Task	Responsible(s)	Timeframe
Computing infrastructure, network, etc	Martin	
DREAM RCDAQ driver & integration with V1742s	Alexander (Martin)	
RCDAQ accelerator plugin	Alexander	
Trigger module hardware, firmware, software	Martin	
V1742 full configuration assembly & testing (split fibers, sync stuff)	Martin & Alexander	
HRPPD #5 & 2x fast MCP-PMTs integration	Martin & Alexander	
FCFDs (?)	Takao	
Beam line instrumentation (DESY table, Cherenkov counters)	Martin	
HRPPD surface scans in the lab (gain and QE / PDE maps)	Ping (Yifan)	
Timing, whatever it means	Brian (Alexander)	

Online monitoring, other software, data processing

Task	Responsible(s)	Timeframe
VNC setup adjustment & control panel	Martin	
Online plots: accumulated waveforms, either this or that way	Martin	
Online plots: hit maps	Yifan	
Online plots: tracker	Jihee	
Data processing chain (local and SDCC)	Ping, Martin, Yifan	
Reconstruction software (mapping tables, IRT, event merging)	Alexander	
Reconstruction scripting	All	