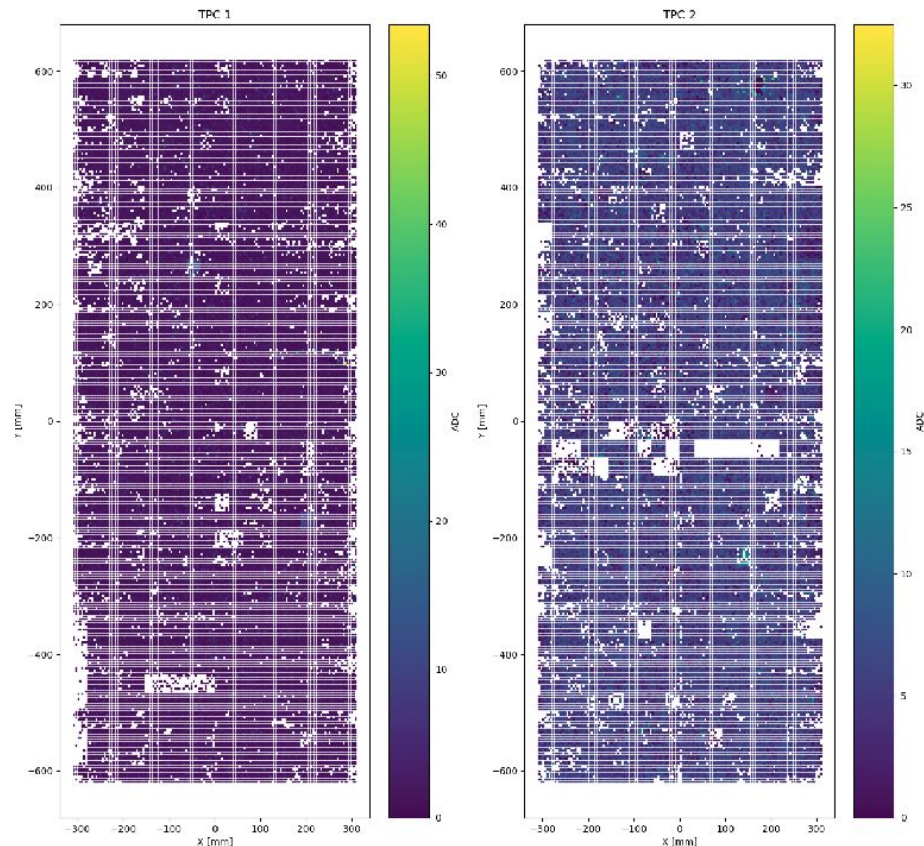
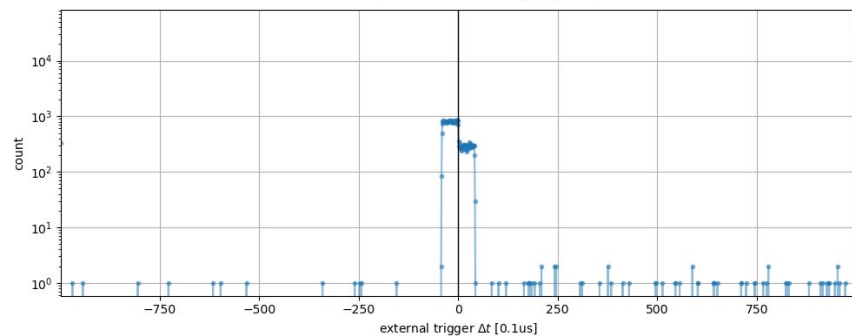
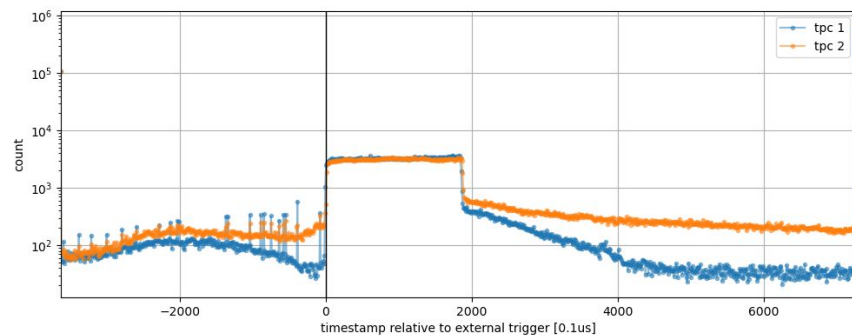


Module 3 Charge Readout Status

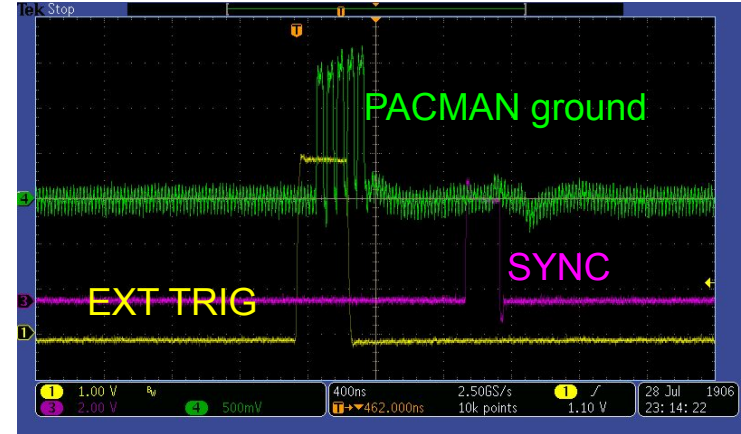
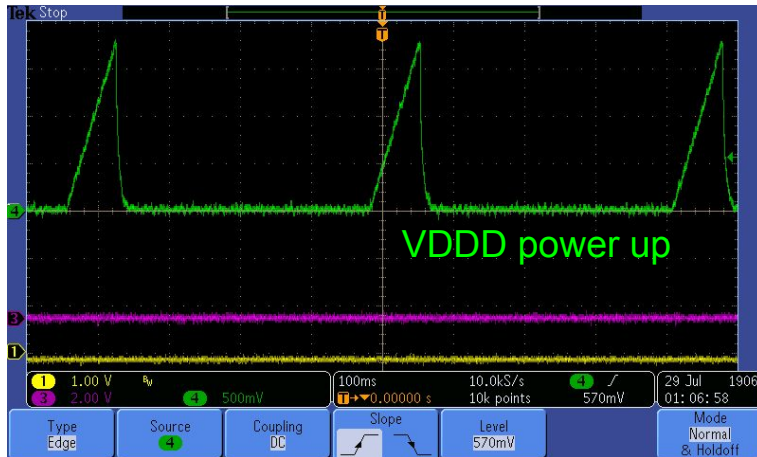
Stephen Greenberg
Feb 1, 2023

System Status



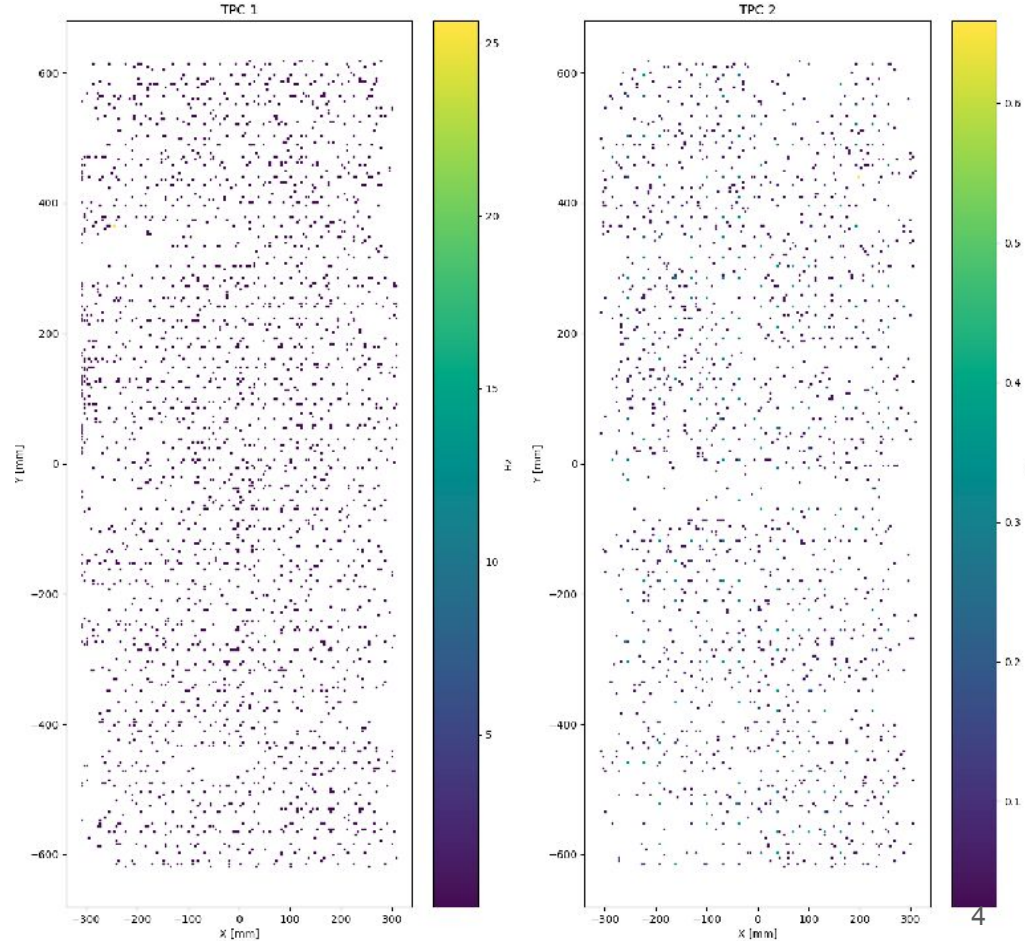
PACMAN Power Instability

- Observed instability in PACMAN ground supplied to tiles with sync/external trigger pulses
- Coupling of sync line directly to pacman receivers
- VDDD power up for all tiles trips regulator



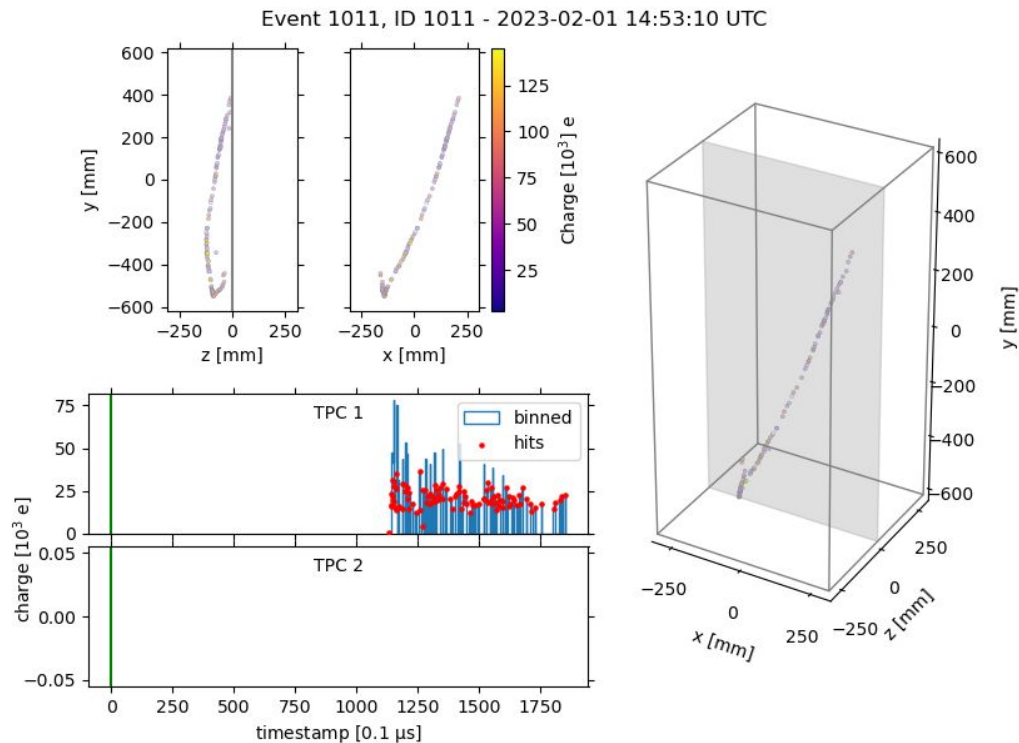
Configuration/Noise Issues

- UART test mode enabled on bringup for some ASICs
 - Results in continuous stream of identical packets
 - Issues configuring chips and others around it
 - Solved: writing configuration to disable upon bringup on all channels
- Channel 37 noisy channel
 - Analog-digital crosstalk on channel near UARTs



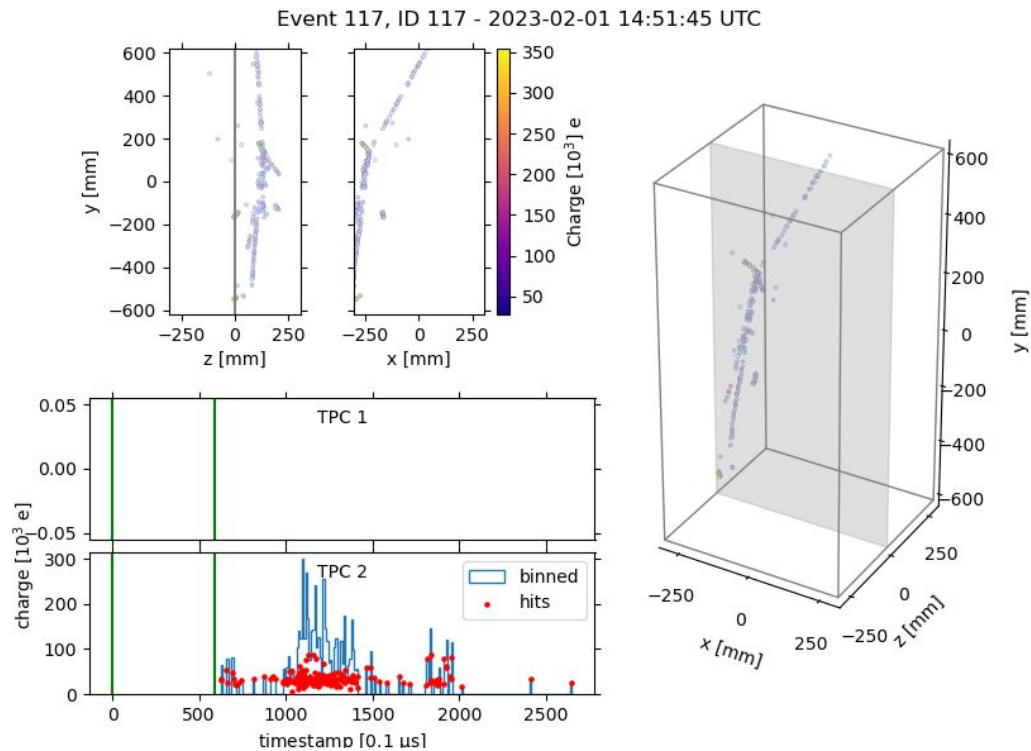
Next Steps

- **Threshold optimization**
 - Operational difficulties until now
 - Tomorrow—lowering thresholds and optimizing active channels



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