



Operations of the LHAASO-WCDA



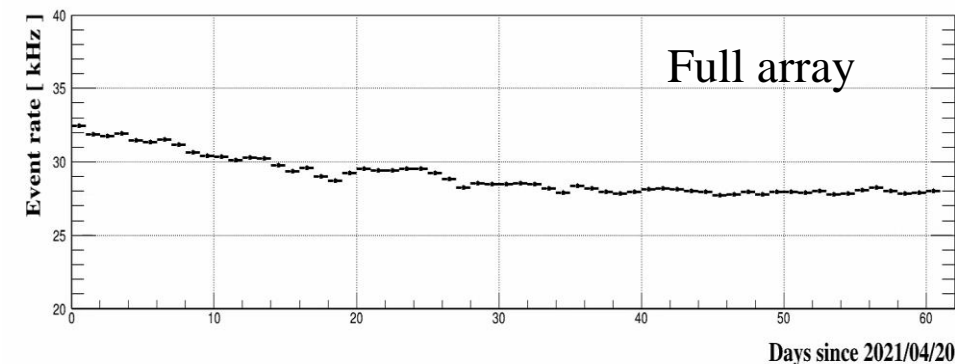
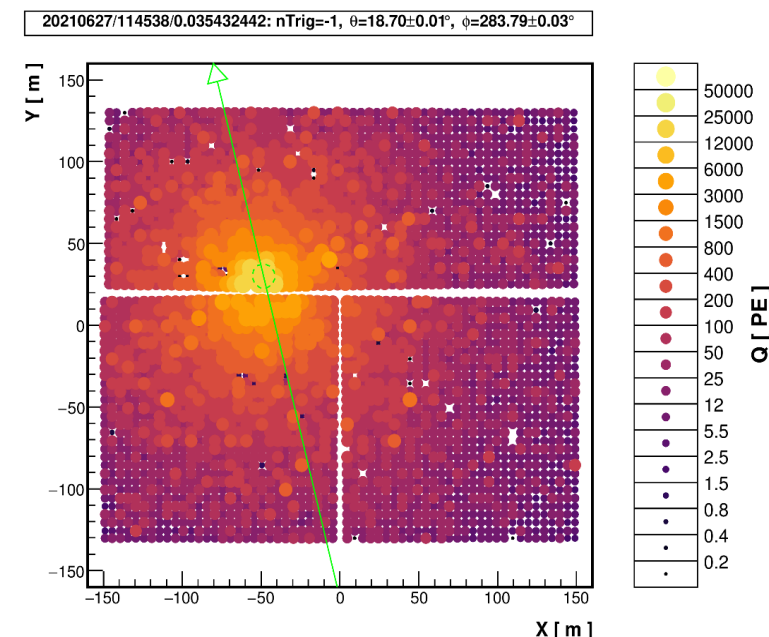
- Objective: $\sim 100\text{GeV} - 30\text{TeV}$ gamma-ray sky;
- Divided into 3 separate arrays:

PMT	TTS (ns)	Dynamic range (PEs)	Manufacturer	Model number	Layout
8-inch	<3	1 - 4,000	Hamamatsu	CR-365	WCDA-1
1.5-inch	-	20 - 200,000	HZC Photonics	XP-3960	WCDA-1
20-inch	<6.5	1 - 1,800	NNVT	GDB-6203	WCDA-2&3
3-inch	-	1 - 3,000	HZC Photonics	XP-72B22	WCDA-2&3

More information and performance of PMTs are presented in [ID-167, 1126, 1164](#)

- Three phases:

Phases	Threshold (PEs)	Trigger model	Rate (kHz)	Raw data (TB/day)
WCDA-1 2019/4/16 - 2020/3/12	1/3	20 groups	20	3
Half array 2020/3/16 - 2021/3/4	1/3	15 hits, pattern	80	15
Full array 2021/3/5 - now	8inch: 1/3 20inch: 1	30 hits, pattern	30	12



The preliminary analysis results are presented in other contribution in this conference: [ID-897, 969, 1079, 1081, 1103](#).