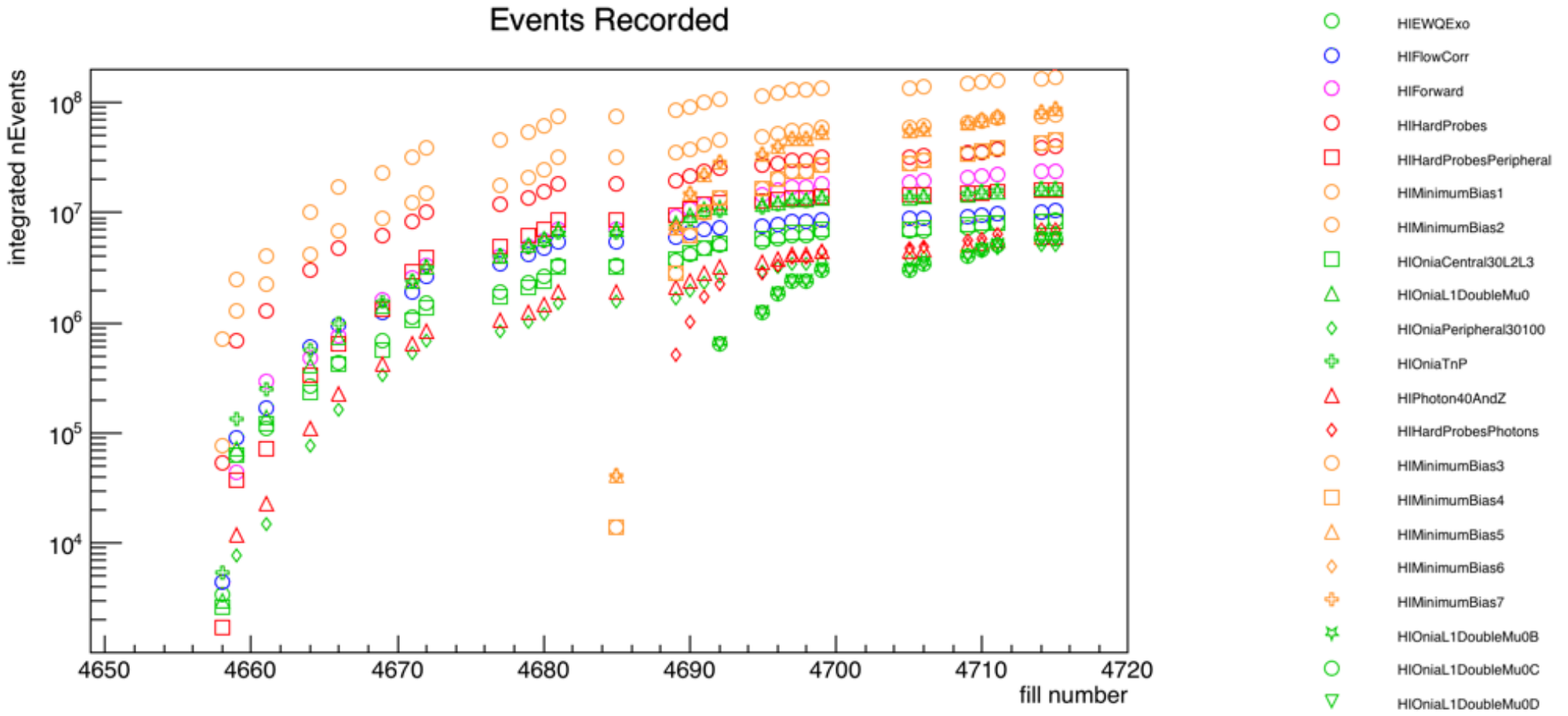
Events Stored

11 Dec 2015

Jason + others

Number of Events

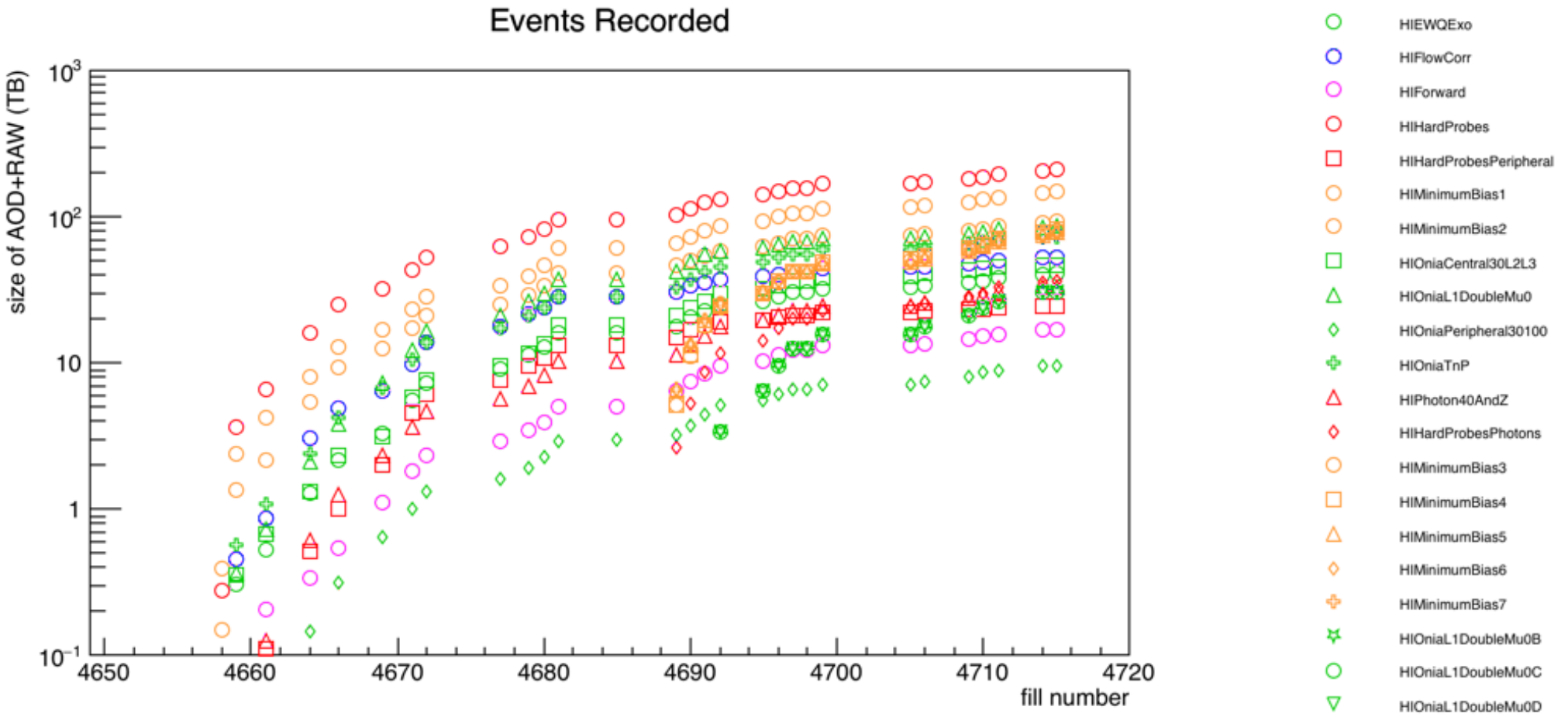
per PD



- Using Emilien's script (fantastic!!)
- Pull nEvents/PD for each fill
- Plot running total…
- Can see, eg, when we turn on new PDs, when we drastically change prescales, etc..
- caveat: missing a few runs (no DQM file), however, with small luminosity

Event Size

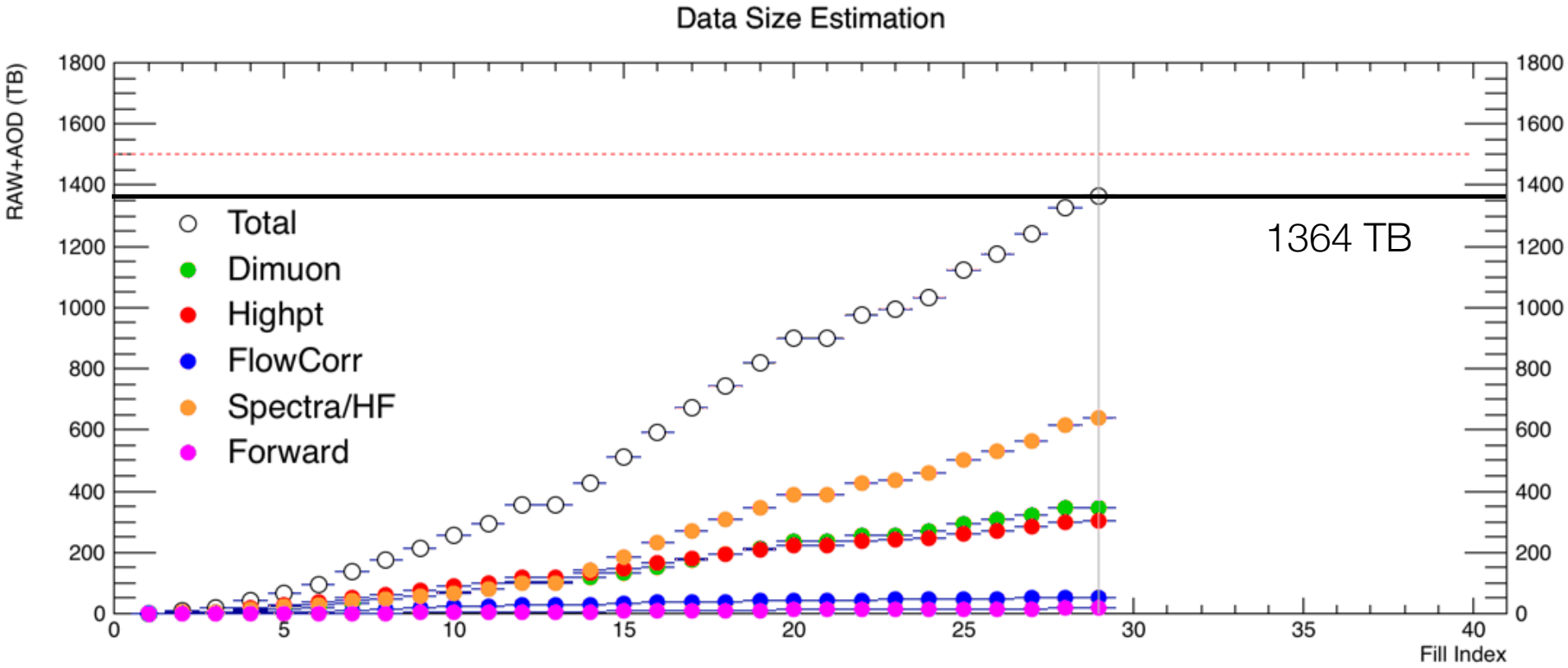
per PD



- Using Emilien's script (fantastic!!)
- Multiply nEvents/PD by (AOD+RAW) event size from DAS.
  - As this changes from run-to-run (different prescales), it's not perfectly accurate
  - Can see, eg, when we turn on new PDs, when we drastically change prescales, etc..
- note: sheer events don't always translate to disk/tape volume ..
- caveat: missing a few runs (no DQM file), however, with small luminosity

Event Size Written

per PING

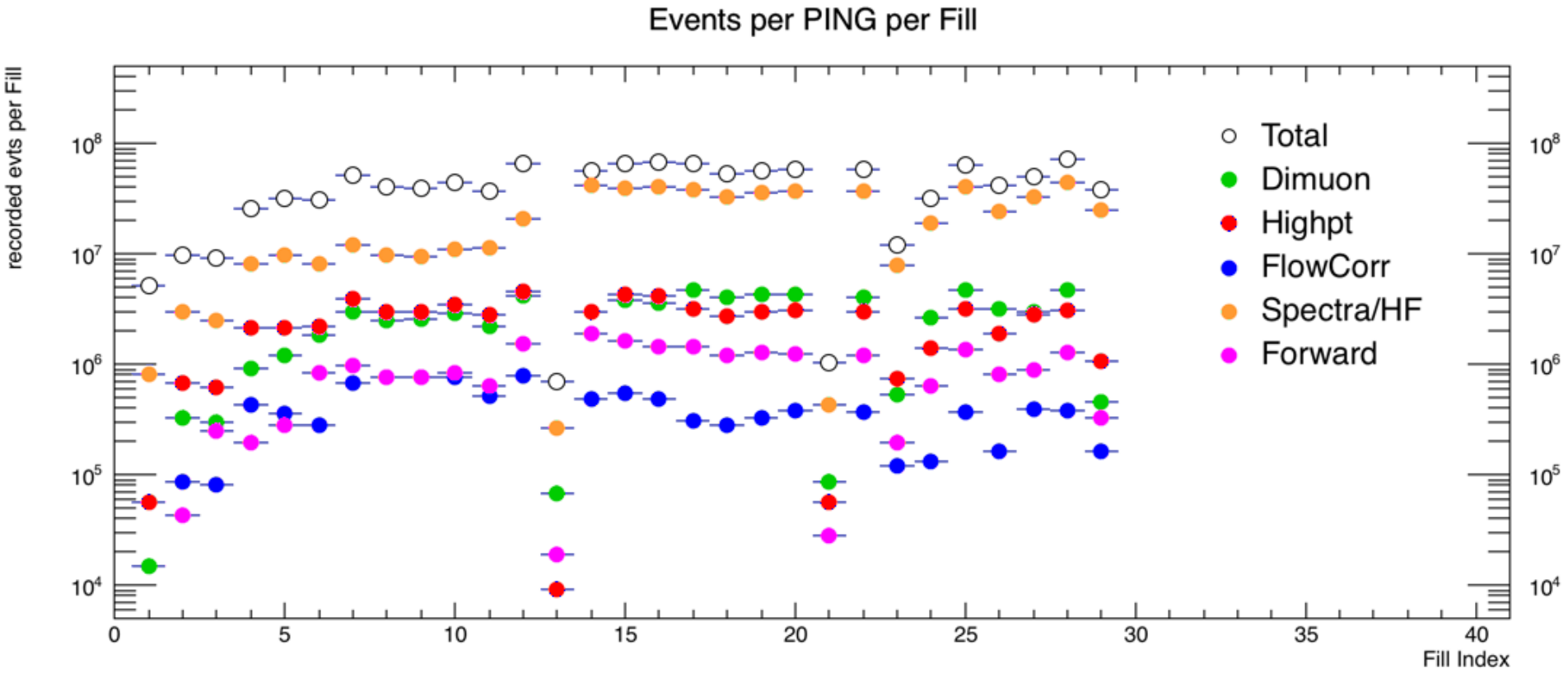


- Using Emilien's script (fantastic!!)
- Multiply nEvents/PD by (AOD+RAW) event size from DAS.
- Sum for each PING, check total
- Well, this is it: (as of 14:50 today)

  Estimated Total: 1364 TB → under budget ! ☺

Written Events per Fill

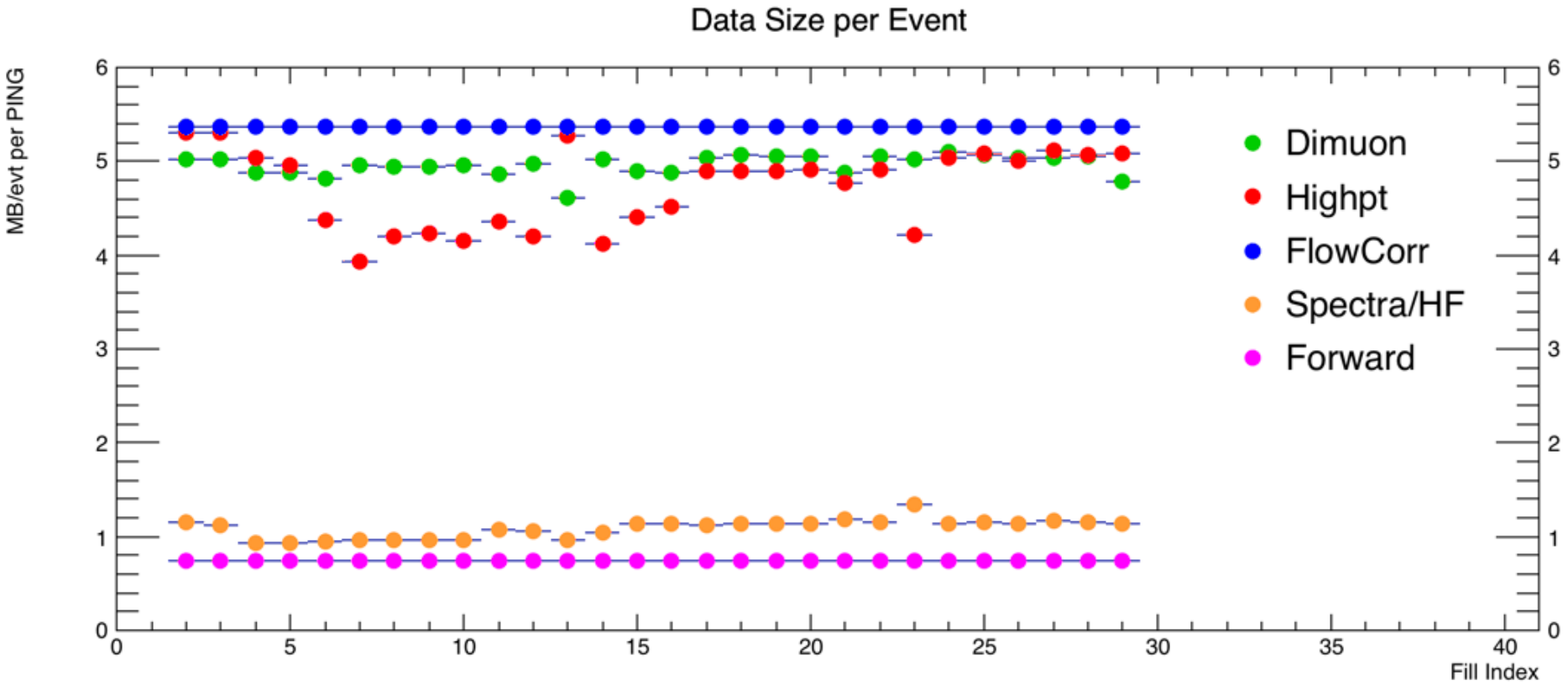
per PING



- Number of events that each PING writes (per fill).
- #13, #21 were the super low luminosity fills
  (see, we collected very very few events!)
- #27 (Fill 4711), DQM only recorded 2nd half of fill. For above, it's loosely extrapolated.
- Dominated by MinBias… (don't freak out, see next slide)

Fraction Being Written

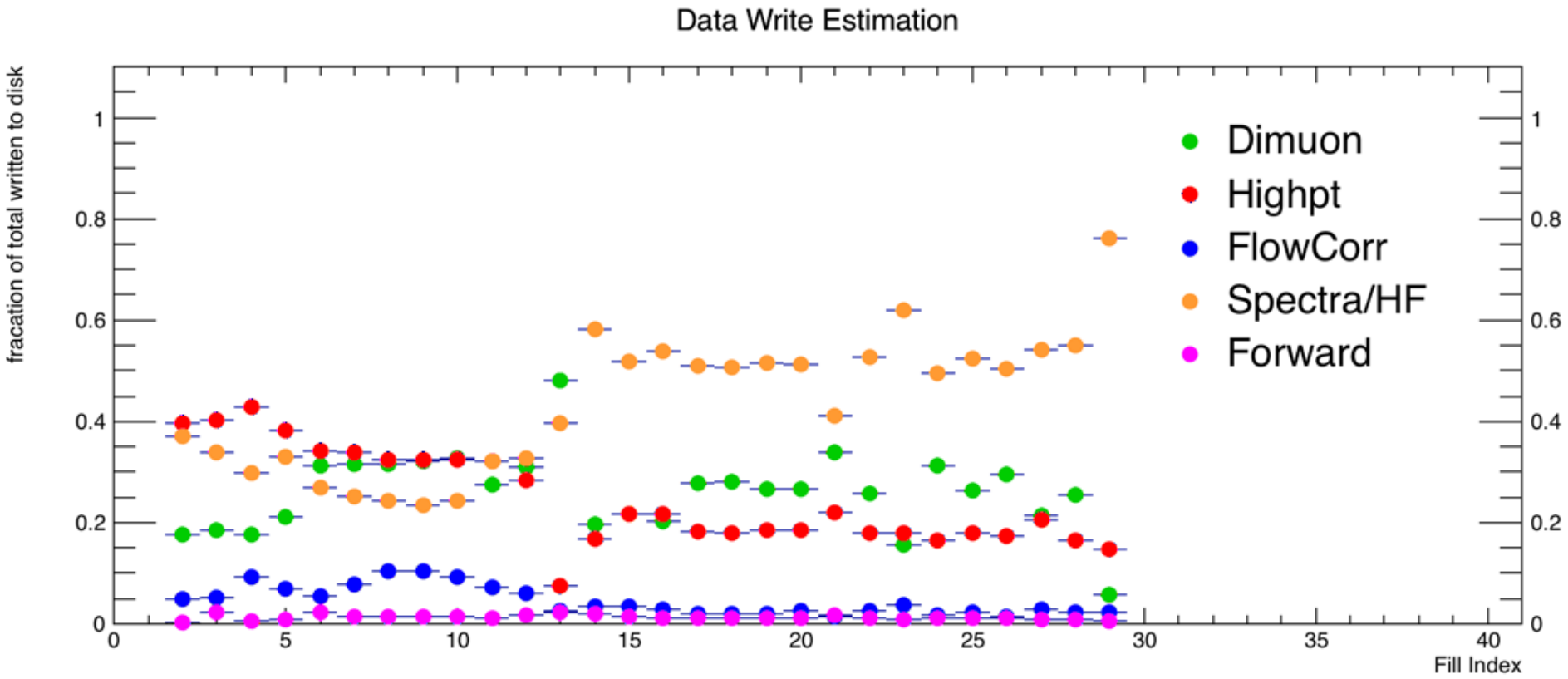
per PING



- Average size of event written per PING (RAW+AOD).
- #13, #21 were the super low luminosity fills collected very very few events.
- #27 (Fill 4711), DQM only recorded 2nd half of fill. For above, it's loosely extrapolated.
- We write lots of MB, but they're small(er) events ☺

Fraction Being Written

per PING



- Fraction of data volume written per PING.
  - (this is the ratio of last two slides)
- #13, #21 were the super low luminosity fills collected very very few events.
- #27 (Fill 4711), DQM only recorded 2nd half of fill. For above, it's loosely extrapolated.

Event Size

- Event sizes per PD
  - Both AOD, RAW
- PInGs:
  Please check these numbers ! ☺
- Remember:
  I assume that these numbers are constant throughout the run, *which they are not*.

AODsize/ event MB	PD	RAWsize/ event MB	#events/PD	AOD+RAW/event
0.55	HIOniaPeripheral30100	1.45	3730029	2.00
1.88	HIOniaCentral30L2L3	3.95	6964437	5.83
1.77	HIOniaL1DoubleMu0	3.65	13682683	5.42
1.77	HIOniaL1DoubleMu0B	3.68	2995518	5.45
1.77	HIOniaL1DoubleMu0C	3.68	2995617	5.45
1.77	HIOniaL1DoubleMu0D	3.68	2996555	5.45
				0.00
1.55	HIOniaTnP	3	13668952	4.55
1.66	HIEWQExo	3.43	6672736	5.09
0.45	HIHardProbesPeripheral	1.17	14247227	1.62
1.76	HIHardProbes	3.75	31817883	5.51
1.99	HIPhoton40AndZ	3.78	4470909	5.77
1.76	HIHardProbesPhotons	3.6	4504471	5.36
1.87	HIFlowCorr	3.5	8695389	5.37
0.04	HIForward	0.7	18534798	0.74
0.51	HIMinimumBias2	1.49	59189085	2.00
0.12	HIMinimumBias1	0.45	135809890	0.57
0.46	HIMinimumBias4	1.44	26952957	1.90
0.46	HIMinimumBias3	1.41	26955655	1.87
0.2	HIMinimumBias5	0.73	53878054	0.93
0.2	HIMinimumBias6	0.73	53878663	0.93
0.2	HIMinimumBias7	0.74	53879855	0.94

backup