

DSM/QT Algorithms for 2018

October 30, 2017

DSM	Algorithm	Algorithm Status
MTD and TOF	Same as last year.	Done.
PP2PP	Not taking data this year	N/A
TF201	TBD, but we will use an existing one	Not selected.
VPD	TBD, either mean-TAC or fastest-TAC	Not selected.
BBC-S	Same as last year.	Done.
BBC-L	Return to 2010_b algorithm (no EPD)	Done.
EPD layer-0 and -1	TBD	Not started.
ZDC	Same as last year.	Done.
VT201	TBD. It will be a heavy-ion version, but I will add in EPD logic.	Not started.
EMC	Return to 2014 “b” version heavy ion algorithms	Done
FMS	Same as last year.	Done.

QT	Algorithm	Algorithm Status
MTD/MTD-VPD	QT32C: Same as last year.	Done.
ZDC-SMD	QT32B: QT is DAQ only, no algorithm	N/A
PP2PP	QT32B: Change logic from TAC to internal TDC	Not needed for Run 18.
VPD	QT32C: TBD, either mean-TAC or fastest-TAC	Algorithm should be recompiled for QT32C and to drive the scaler outputs. If we use the mean-TAC algorithm (v7.6) then I also need to remove the noise pulser correction.
BBC-small	QT32B: Same as last year.	Done.
BBC-large	QT32B: Change logic from TAC to internal TDC	Not needed for Run 18.
ZDC	QT32B: Same as last year.	Done.
EPD – inner tiles	QT32C: Fastest TAC with hit count instead of ADC sum	Not started.
EPD – outer tiles	QT32B: TBD	Not started.
FMS	QT32B: Same as last year	Done.