

40 MHz bunch crossing rate

L0 Hardware Trigger

1 MHz readout high E_T and p_T signatures

450 kHz
hadrons

400 kHz
 $\mu / \mu\mu$

150 kHz
 e / γ

Software High Level Trigger

Partial event reconstruction, select
displaced tracks/vertices and dimuons

Buffer events to disk, perform online
detector calibration and alignment

Full offline-like event selection, mixture
of inclusive and exclusive triggers

12.5 kHz (0.6 GiB/s) to storage