

40 MHz bunch crossing rate



L0 Hardware Trigger : 1 MHz readout, high E_T/P_T signatures

450 kHz
 h^\pm

400 kHz
 $\mu/\mu\mu$

150 kHz
 e/γ



Software High Level Trigger

**Introduce tracking/PID information,
find displaced tracks/vertices**

**Offline reconstruction tuned to trigger
time constraints**

**Mixture of exclusive and inclusive
selection algorithms**



5 kHz Rate to storage

2 kHz
Inclusive
Topological

2 kHz
**Inclusive/
Exclusive**
Charm

1 kHz
Muon and
DiMuon