CHEP 2016 — DATA ANALYSIS IN REAL TIME WITH THE LHCb TRIGGER

- Run2: LHCb deployed new data taking strategy
- Trigger == offline reconstruction, including PID
- Detector calibration / alignment within O(min)
- Turbo stream:
 - 1/4 of event rate @ 1/50 of bandwidth
 - No offline reconstruction, only trigger information available:
 - Increases physics program for same resources
 - Next step: customization of data out of the trigger per measurement
- Critical first steps towards our Run3 upgrade

