

Inclusive radiative lines for run 3 in LHCb

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The LHCb detector has undergone a large update during Long Shutdown 2 involving both subdetectors and the Trigger and Data acquisition systems. This talk will briefly cover the most important upgrades in the Trigger system and present how the inclusive radiative lines have been modernized to run optimally in the new conditions.

Emphasis will be given to:

- Evolving to a 'hardware-less' trigger
- Use of GPUs for the first stage of the trigger
- Benefits of running an offline-quality reconstruction in the HLT2 stage
- Real time calibration
- Increased instantaneous luminosity
- Selective persistence

and particular to the radiative inclusive lines:

- Inclusive lines: particularities
- Implementation and optimization
- Performance

Which session do you think it fits best?

Run-3 trigger performance

Primary author(s) : LOBO SALVIA, Aniol (Universitat de Barcelona)

Presenter(s) : LOBO SALVIA, Aniol (Universitat de Barcelona)

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