

Quy Nhon

runs 2 / 3 / 4



Run2: Extrapolation & extension of end of Run1 framework

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Parallel Session 5: Run1 achievements; prospects for Run 2 and beyond

Challenges of ATLAS and CMS operation 30

***Roberto Castello (Universite Catholique de Louvain (UCL) (BE)),
Wainer Vandelli (CERN)***

Challenges of LHCb operation 15'

Clara Gaspar (CERN)

***Online and offline tracking at
high PU 15'***

Markus Elsing (CERN)

***Tracking in the L1 trigger for the
ATLAS***

and CMS phase-2 upgrades 15'

Louise Skinnari

(Cornell University (US))



A photograph of a beach scene, tilted at an angle. In the foreground, a man in dark swim trunks walks away from the camera on the wet sand. The ocean has gentle waves with white foam. Several people are swimming in the water. A small blue inflatable boat with people inside is visible on the left. A red flag is also visible in the water. The sky is not clearly visible, but the overall scene is bright and sunny.

and LHCb

*Some questions not really related to operation
/preparation/computing
(see Daniel and Leandro's discussions)*

More effort to be put PDF4LHC ?

*Should we make an LHC EW LHC working group
(in addition to Gfitter) ... it exists vaguely under the
umbrella of LPCC*

*More discussions between
experiments ?
(and theorists ?
.. example : hh)*

Are we ready ?

Changes in software ATLAS : non minor changes

How fast will we be able to process/reprocess

*ATLAS : remember that 2011 data were not reprocessed
like 2012 (anyway it could not be done exactly)*

*we will have several calibrations . Will we have new
(faster) reconstructions at some stage ?*

More sophisticated triggers

*→ are we prepared to evaluate
correctly the efficiencies ?*

Will we mix Run 1 and Run 2 analyses

(not only using 'legacy' R1 (sic) workspaces) ? ATLAS : no (?)

Will we have problems of disk /computing time ?

*Do we have the resources for preparing upgrades for HL-LHC
ATLAS-France : probably now subcritical ...*

*(and HL-LHC experiments are NOT yet financed !
and if manpower remains
too small we will have problems !)*

*And I had not the impression
that it is better in Italy
for instance*

*We should not think that
HL-LHC will be done
easily and that 'we'
can do directly
thinking/R&D for FCC !*