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Meetings

- LHCb internal meeting 19-01-2012: review of status, see below. Next meeting planned middle of February. First draft end of March.
- Meeting with other experiments, 16-01-2012
- Meeting with other LHC experiments and overall editor 10-11-2011
  Elena confirmed after meeting that "content of paper is variable depending on physics program of each experiment" and "the number of pages is given for orientation and is not a strict quota".
- Kick-off meeting 26/09/2011
- Second meeting 28/11/2011
## Section Authors

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**Status (19/01/2012)**

- **Velo:** draft of performance paper, separate document describing radiation damage
- **IT/TT:** will provide hit resolution and efficiency plots. No plan for performance paper.
- **OT:** draft of performance paper (25 pages)
- **Rich:** draft of performance paper circulated before Xmas, now incorporating comments
  2011 version of performance plots available
- **Calo:** several internal notes exist.
- **Muon:** muon ID note under preparation.
- **Trigger:** first draft since one week, good shape.
- **Tracking:** pattern/fit will be cut & paste from other notes, tracking efficiency written up in public note. Momentum resolution, missing. Planned plot of mass resolution vs mass as in Bs mumu paper. To be discussed: section about mass bias.
- **Alignment:** some example of residual misalignments, time stability of Velo position.
- **PID:** pio0/gamma/electrons from Victor notes, combined electron PID, charged track PID from Rich paper. PR plot of mass without and with PID?
Supporting notes, individual performance papers:

- Calorimeter related:
  - Study of $\pi^0/\gamma$ reconstruction efficiency with 2011 data; LHCb-INT-2012-001
  - Electron particle identification with LHCb calorimeter system for 2011 data taking period; LHCb-INT-2011-052
  - ECAL calibration within Kali framework: "Mass distribution fit" method calibration with the real data; LHCb-INT-2011-049
  - ECAL calibration within Kali framework: Monte-Carlo tests of the mass distribution fit method; LHCb-INT-2011-028
  - Calibration of the LHCb calorimeters with energy flow

- Older notes (MC):
  - Photon Identification
  - Particle identification with LHCb calorimeters
  - Photon and neutral pion reconstruction

- Velo:
  - svn link to VELO performance paper draft

- OT:
  - svn link to OT performance paper draft
Mailing List

An egroupe lhcb-performance-paper-authors has been created for discussion on the paper. Authors should join, and interested parties are very welcome as well.
Editorial Details

SVN Repository

A latex template for the paper has been set up in LHCbDocs.

You can download a working copy of the paper using the command

```
svn co $DLHCB/Publications/PubDrafts/2012/LHCbPerformancePaper
```

You can just browse the repository on the web using this link.

You will find the repository has the normal LHCbDocs setup. A latest directory contains the working document, which is where edits should be made. A drafts directory exists for any future tagged versions we wish to save.

The latest directory contains three more. A latex directory for the latex source, a figs directory for figures and a reference directory for any reference information. For instance reference/IJMPA contains the files downloaded from the IJMPA web site which includes guidelines for the journal and example tex files.

Authors should aim to keep the SVN repository up to date with their own changes, and also to regularly update their working area from SVN, to pick up changes from others. If you allow SVN and your working copies to diverge too far, it can be problematic to merge things back into sync.

To update your area, just run

```
svn update
```

and to commit changes

```
svn commit -m "Some meaningful comment"
```

After making any major commits, please send an email to lhcb-performance-paper-authors so the other authors can update.

Building the document

A Makefile has been added to the latex directory that will build the PDF document from the latex source. Just take make. If you wish to do a clean rebuild, run make clean first.

Editing Guidelines

When editing your sections please pay attention to both the LHCb and IJMPA guidelines. The IJMPA guidelines can be found in the reference/IJMPA directory. For LHCb guidelines, please familiarise yourself with the guidelines as can be found from the LHCb editorial web pages.

For convenience, I have also uploaded PDFs of the IJMPA and LHCb guidelines to this twiki.

Please can I urge the authors to abide by these guidelines from the start, as it will make things easier in the long run.

-- ChristopherRJones - 04-Oct-2011