

# ILD IDR

ILD meeting, 27.2.2019

# IDR editing

The IDR is maintained on overleaf, a WEB-based interface to latex:

The screenshot shows the Overleaf web interface for editing the IDR document. The interface is split into three main sections:

- File Explorer (Left):** Shows a directory structure with folders like .svn, Costing, Detector, ILC, and ILD. The 'Detector' folder is expanded, showing files like ECAL.tex, FCAL.tex, HCAL.tex, ILD-master-Detector.tex, Iron.tex, Si.tex, TPC.tex (selected), and VTX.tex.
- Source Code Editor (Center):** Displays the LaTeX source code for the document. The code includes sections for the Time projection chamber, detector prototypes, and performance. The text describes the ILD TPC R&D being conducted mainly within the LCTPC Collaboration, the workhorse for validation of detector prototypes, and the manufacturing process of detection modules.
- Rendered PDF Preview (Right):** Shows the rendered output of the document. It includes sections for the Vertex detector, Silicon trackers, and Time projection chamber. The text in the preview matches the source code, describing the detector setup and the manufacturing process.

The interface also features a top navigation bar with options like Menu, Review, Share, Submit, History, and Chat. A 'Recompile' button is visible in the top right corner of the editor area.

# Places

ILD IDR:

Edit <https://www.overleaf.com/project/5b30eafb30cd6f754b3f3fc5>

Read: <https://www.overleaf.com/read/jrxfbssqfgs>

Overleaf is a front end to git, all changes you do are synchronised automatically to a git repository.

To work offline, it is recommended that you pull the document from this git:

git clone <https://git.overleaf.com/5b30eafb30cd6f754b3f3fc5>

Frank prepared a nice document explaining how to work with git:

[https://confluence.desy.de/display/ILD/The+ILD+Design+Report%2C+IDR?preview=/97009435/120369840/overleaf\\_git\\_howto.pdf](https://confluence.desy.de/display/ILD/The+ILD+Design+Report%2C+IDR?preview=/97009435/120369840/overleaf_git_howto.pdf)

# Working with Overleaf and git

## Direct access to Overleaf via git

Overleaf also offers a direct git interface to every project for contributors with editing rights. If you have the link to the Overleaf editing page, e.g. (ILD-IDR)

```
https://www.overleaf.com/project/5b30eafb30cd6f754b3f3fc5
```

you can directly clone the project by replacing `www` with `git`, e.g.

```
git clone https://git.overleaf.com/5b30eafb30cd6f754b3f3fc5 ildidr
```

You can find the command also under *Menu-Sync-git* on the project page.

**Now you can make changes to the local git version of the project and commit them back to Overleaf with the usual commands.**

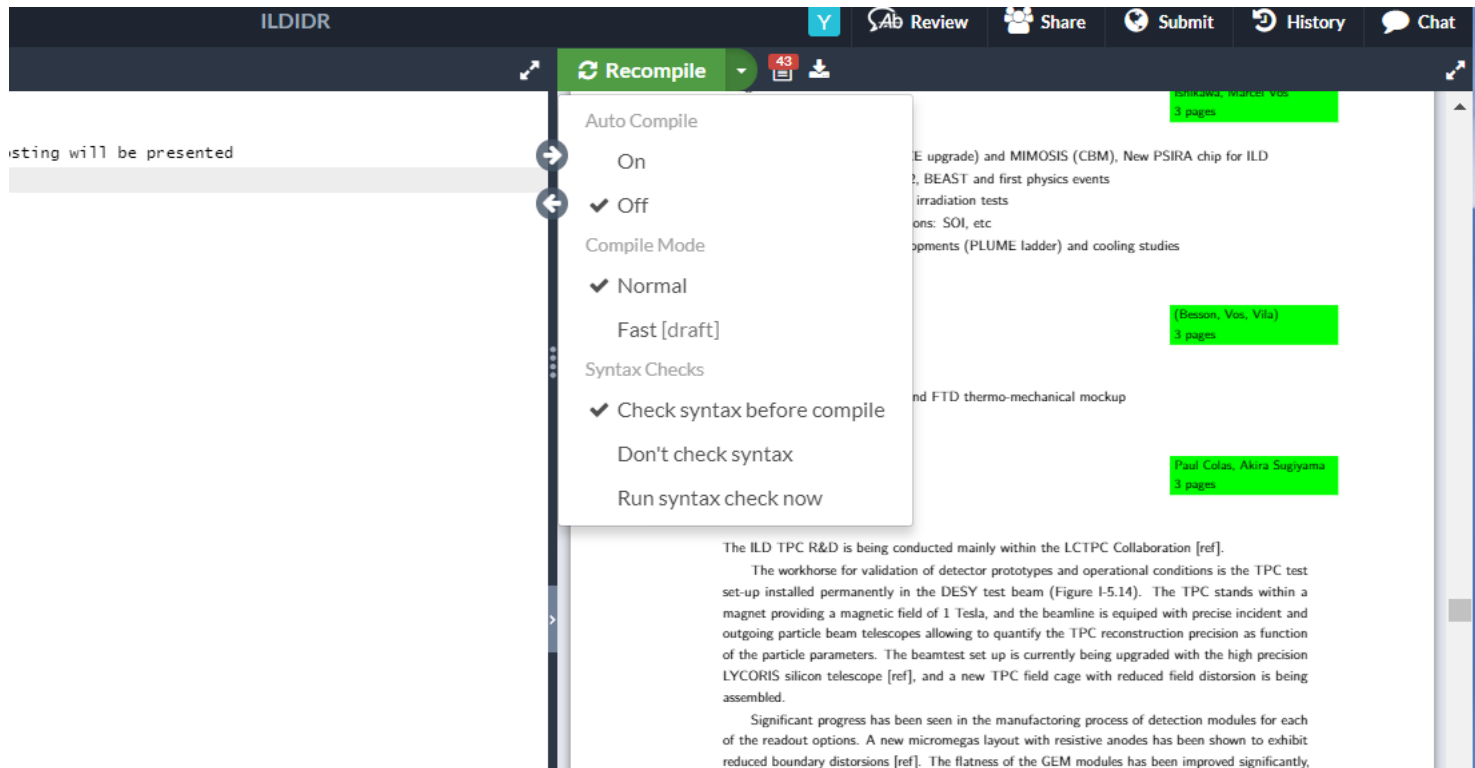
**Note** that committing back to Overleaf is only possible on the `master` branch.

If you are an experienced git user you should be ready now to contribute to an Overleaf project with git and you can skip the rest of the document.

**Note: access to the svn repository for the ILD IDR is discontinued and not supported any more!**

# Working with overleaf

Switch off the automatic re-compilation:



The screenshot shows the Overleaf web interface. At the top, there is a dark navigation bar with the text 'ILDIDR' on the left and icons for 'Review', 'Share', 'Submit', 'History', and 'Chat' on the right. Below this is a secondary bar with a 'Recompile' button (a green circle with a refresh icon) and a notification badge showing '43'. A dropdown menu is open from the 'Recompile' button, listing the following options:

- Auto Compile
  - On
  - Off
- Compile Mode
  - Normal
  - Fast [draft]
- Syntax Checks
  - Check syntax before compile
  - Don't check syntax
  - Run syntax check now

The background of the interface shows a document with several green highlighted sections. The visible text in the document includes:

...sting will be presented

...E upgrade) and MIMOSIS (CBM), New PSIRA chip for ILD, BEAST and first physics events irradiation tests ons: SOI, etc pments (PLUME ladder) and cooling studies

... [Bisson, Vos, Via] 3 pages

... and FTD thermo-mechanical mockup

... Paul Colas, Akira Sugiyama 3 pages

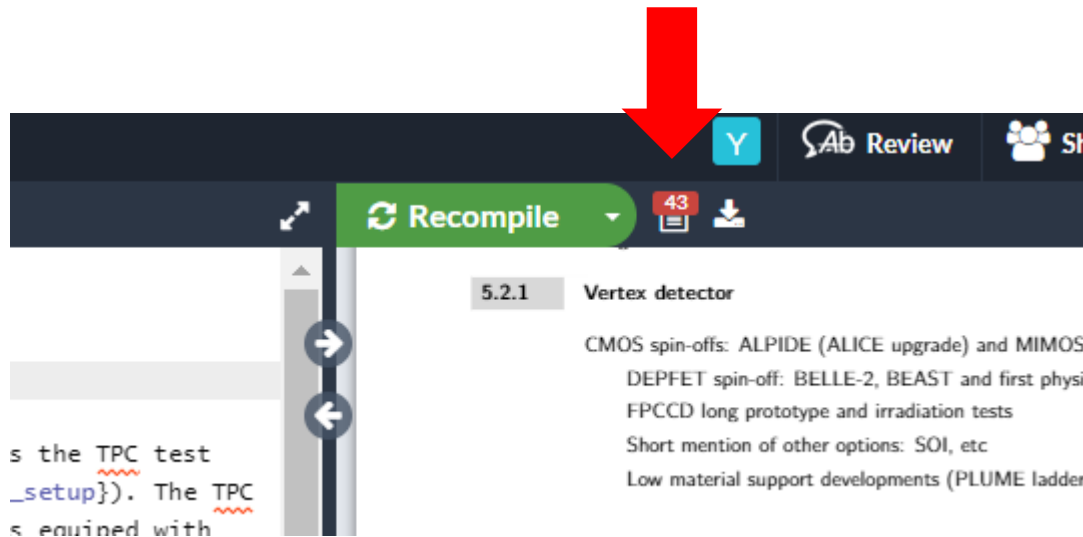
The ILD TPC R&D is being conducted mainly within the LCTPC Collaboration [ref].

The workhorse for validation of detector prototypes and operational conditions is the TPC test set-up installed permanently in the DESY test beam (Figure I-5.14). The TPC stands within a magnet providing a magnetic field of 1 Tesla, and the beamline is equipped with precise incident and outgoing particle beam telescopes allowing to quantify the TPC reconstruction precision as function of the particle parameters. The beamtest set up is currently being upgraded with the high precision LYCORIS silicon telescope [ref], and a new TPC field cage with reduced field distortion is being assembled.

Significant progress has been seen in the manufacturing process of detection modules for each of the readout options. A new micromegas layout with resistive anodes has been shown to exhibit reduced boundary distortions [ref]. The flatness of the GEM modules has been improved significantly,

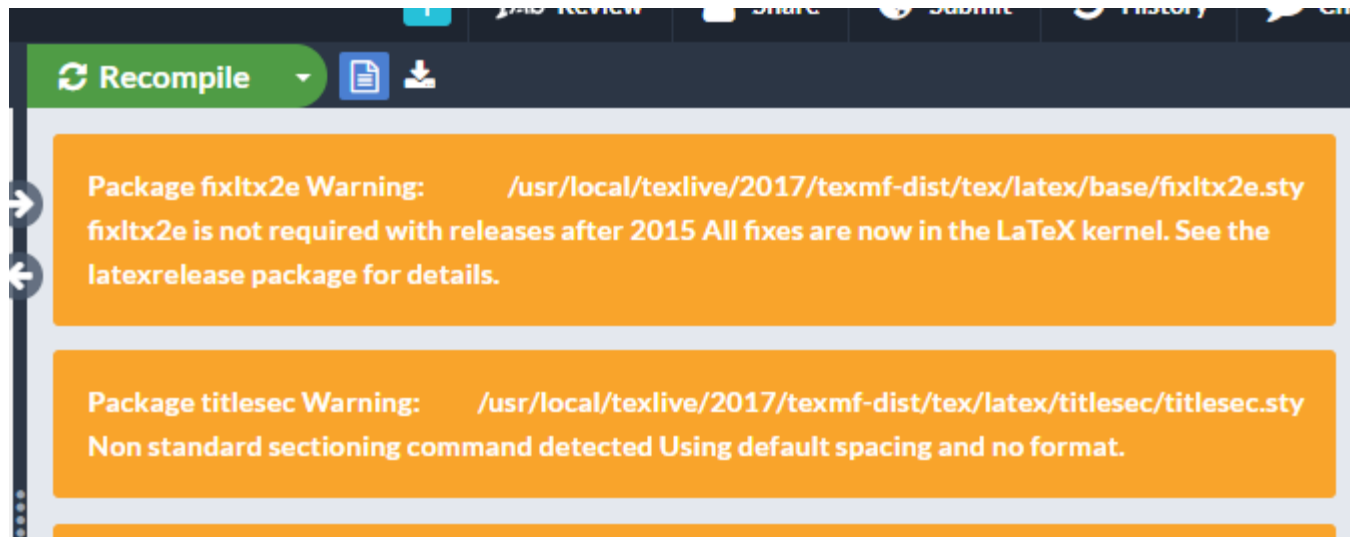
# Some hints for using overleaf

- The overleaf compiler is rather forgiving: check for latex errors to ensure that major errors are caught.



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The screenshot shows a list of compiler messages in a scrollable container. A large red arrow points to the top message. The messages are as follows:

- Too many }'s.** Detector/TPC.tex, line 6  
I.6 ...duced field distorsion is being assembled.)  
You've closed more groups than you opened.  
Such boobos are generally harmless, so keep going.
- Package fixltx2e Warning:** /usr/local/texlive/2017/texmf-dist/tex/latex/base/fixltx2e.sty  
fixltx2e is not required with releases after 2015 All fixes are now in the LaTeX kernel. See the latexrelease package for details.
- Package titlesec Warning:** /usr/local/texlive/2017/texmf-dist/tex/latex/titlesec/titlesec.sty  
Non standard sectioning command detected Using default spacing and no format.
- Citation `ild:bib:ILDDBD' on page 1** Introduction/ILD-master-Introduction.tex, line 5



# History of changes:

The screenshot displays a version control interface for a file named `\chapter{Costing}`. The interface includes a top navigation bar with the project name "ILDIDR" and several action buttons: "Y", "Review", "Share", "Submit", "History", and "Chat". Below the navigation bar, the current date and time are shown as "27th Feb 2019, 5:25 am". There are two buttons for version management: "Label this version" and "Compare to another version". A red button labeled "Download project at this version" is also present. The main area shows the file path `\chapter{Costing}` and a list of files in the left sidebar, including `-Costing.t...`, `-Detector....`, `rant_2.png`, `budget-ne...`, `D_o1_v05....`, and `g`. On the right side, a "History" panel is open, showing a list of changes under the heading "Today". The changes are as follows:

File	Time	User
Edited Detector/TPC.tex	5:25 am	You
Edited Detector/Si.tex	4:05 am	You
Edited Detector/Si.tex	3:56 am	You
Edited Detector/Si.tex	3:28 am	You
Edited Detector/Si.tex		

# History of changes:

The screenshot displays a version control interface for a project named 'ILDIDR'. The main area shows the content of a file named 'Costing/ILD-master-Costing.tex' with the following text:

```
1 \chapter{Costing}
2
3 In this chapter the current state of the ILD costing will be presented
4
```

The interface includes a top navigation bar with icons for 'Y', 'Review', 'Share', 'Submit', 'History', and 'Chat'. Below the navigation bar, there are several action buttons: 'Label this version', 'Compare to another version', and 'Download project at this version'. On the right side, a 'History' panel is open, showing a list of recent changes:

- Today
- Edited Costing/ILD-master-Costing.tex
- Edited Detector/TPC.tex 5:28 am • You
- Edited Detector/Si.tex 4:05 am • You
- Edited Detector/Si.tex 3:56 am • You
- Edited Detector/Si.tex 3:28 am • You
- Edited Detector/Si.tex
- Edited Detector/TPC.tex 3:16 am • You

The history panel also indicates the current date and time: 'Fri, 22nd Feb 19'.

# History of changes:

The screenshot shows a document editor interface with a dark top bar. The top bar contains the text 'ILDIDR' on the left and several icons on the right: a blue 'Y' icon, a 'Review' icon, a 'Share' icon, a 'Submit' icon, a 'History' icon (highlighted in green), and a 'Chat' icon. Below the top bar, the main editor area shows a document with line numbers 1 through 4. Line 1 contains the LaTeX code `\chapter{Costing}`. Line 2 contains a blue highlight with the text 'Added by you on 27th Feb 2019, 5:28 am'. Line 3 contains the text 'ILD costing will be presented'. Line 4 is empty. On the right side, there is a 'History' panel with a 'Labels' button. The history panel shows a list of changes under the heading 'Today'. The changes are:

- EDITED Costing/ILD-master-Costing.tex Detector/TPC.tex by You at 5:28 am (selected)
- EDITED Detector/Si.tex by You at 4:05 am
- EDITED Detector/Si.tex by You at 3:56 am
- EDITED Detector/Si.tex by You at 3:28 am
- EDITED Detector/Si.tex by You at 3:16 am