Introduction to KATRIN's Collaborative Services

Analysis Workshop at the 34. KATRIN CM



KATRIN Wiki



What? Web service to collaboratively create & edit Wiki pages.

Runs a MediaWiki instance, hosted at KIT.

Why? The Wiki allows us to collect & archive discussion material,

provide information for new users, organize schedules, etc.

Wiki pages can be created as needed, extra files can be uploaded.

Where? https://neutrino.ikp.kit.edu/katrin

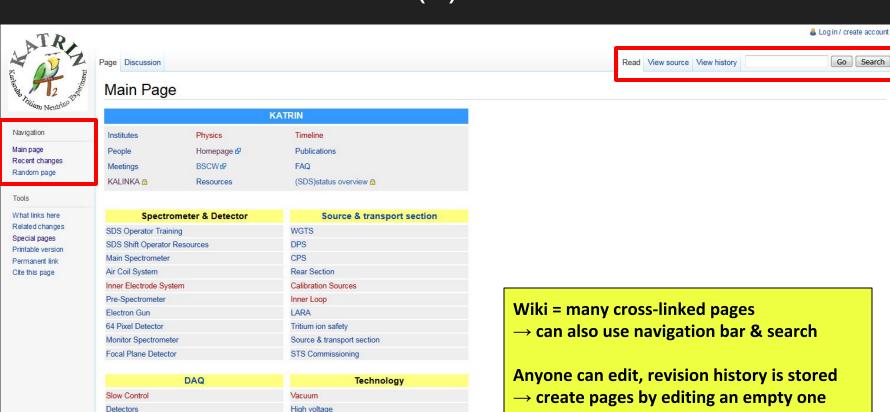
http://katrin.kit.edu/wiki

KATRIN Wiki: Overview (1)

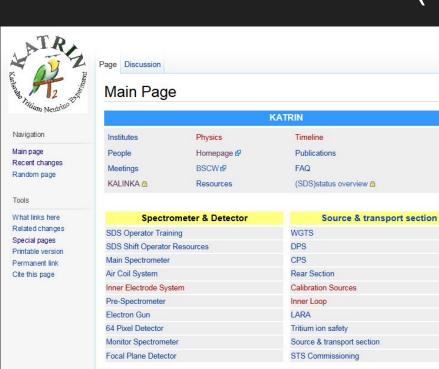
Magnets

DAQ electronics

ORCA



KATRIN Wiki: Overview (2)



DAQ

Slow Control

DAQ electronics

Detectors

ORCA

Technology

Vacuum

Magnets

High voltage

Need KATRIN password to enter

Read View source View history

& Log in / create account

Go Search

To make edits, create an account

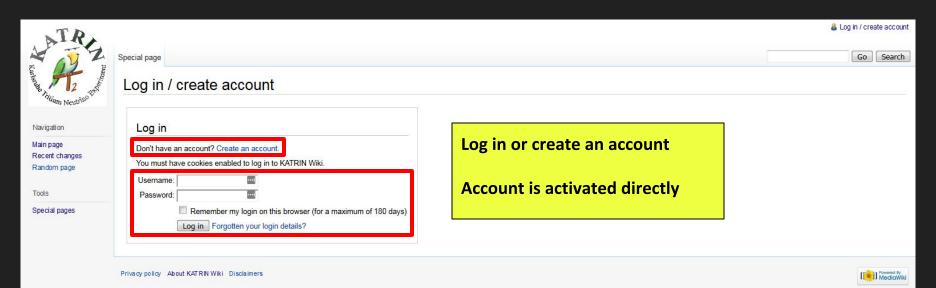
Wiki = many cross-linked pages

→ can also use navigation bar & search

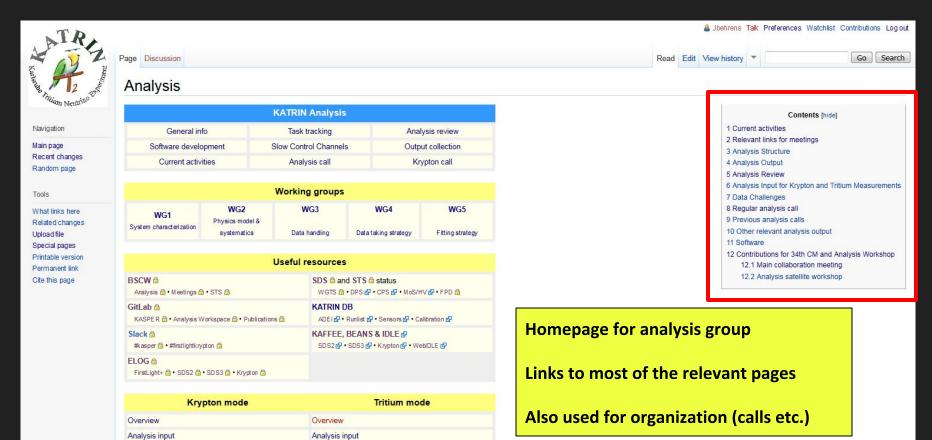
Anyone can edit, revision history is stored

→ create pages by editing an empty one

KATRIN Wiki: Accounts



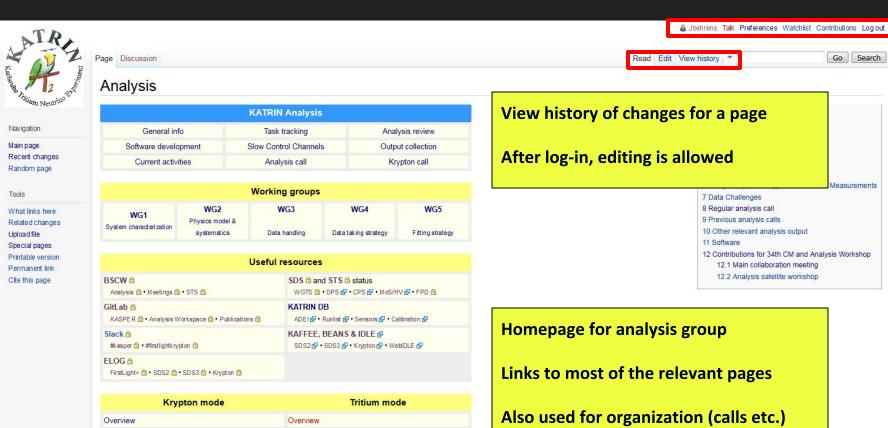
KATRIN Wiki: Getting started (1)



KATRIN Wiki: Getting started (2)

Analysis input

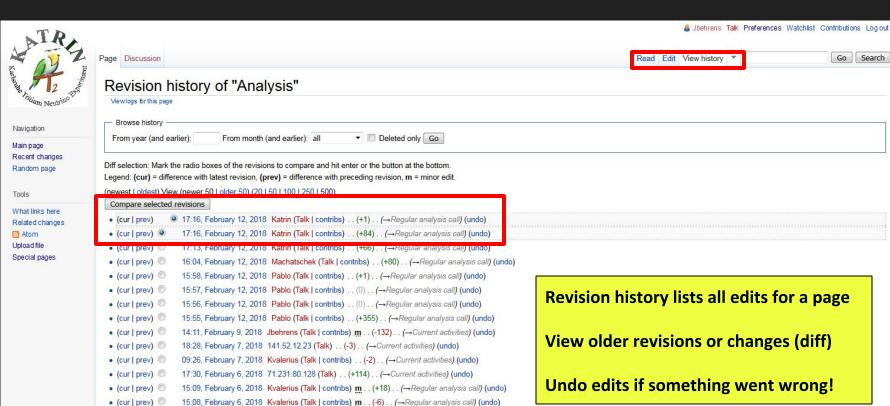
Analysis input



KATRIN Wiki: Revision History

(cur | prev)

• (cur | prev)

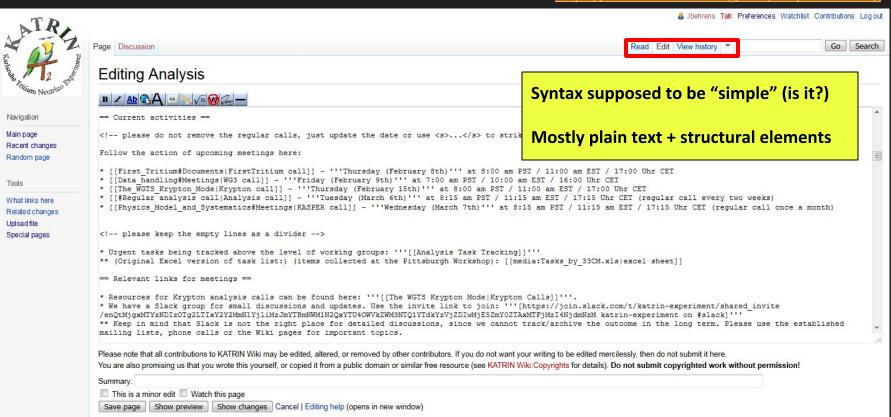


15:08, February 6, 2018 Kvalerius (Talk | contribs) m . . (+112) . . (→Regular analysis call) (undo)

16:45, February 5, 2018 93.44.195.96 (Talk) . . (-1) . . (→Main collaboration meeting) (undo)

KATRIN Wiki: Editing (1)

Wiki formatting help: https://www.mediawiki.org/wiki/Help:Formatting



KATRIN Wiki: Editing (2)

Navigation

Main page

Tools

Recent changes

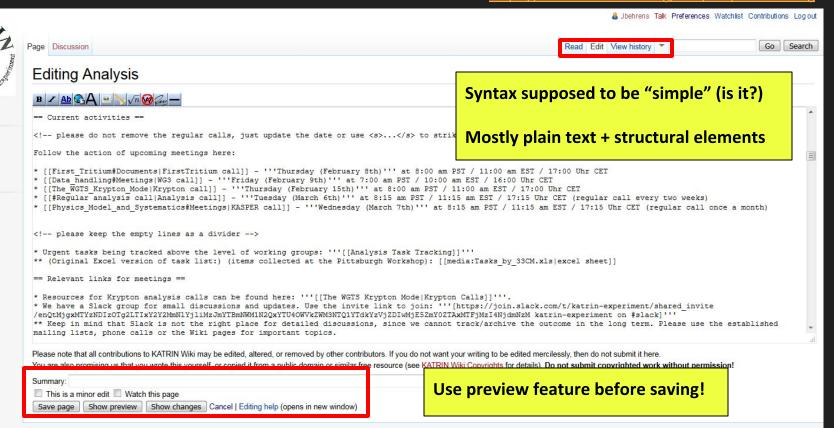
Random page

What links here

Related changes Upload file

Special pages

Wiki formatting help: https://www.mediawiki.org/wiki/Help:Formatting



GitLab



What? Web platform for hosting git repositories & related services.

Runs a GitLab CE instance, hosted in Münster.

Why? Version control is crucial for collaborative software development.

GitLab provides a user-friendly interface with additional services.

The git system works well for paper-writing, too.

Where? https://nuserv.uni-muenster.de:8443

http://nuserv.uni-muenster.de/gitlab

GitLab: Accounts

Need personal account to enter



Email address must be whitelisted



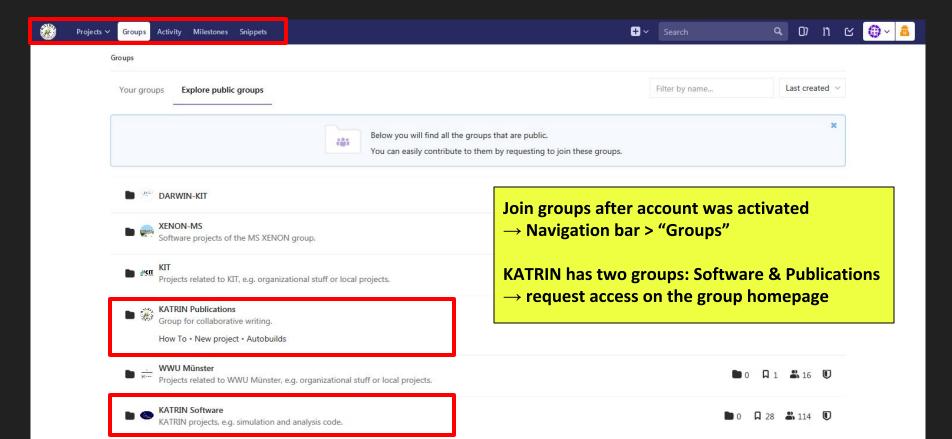
Welcome to the KATRIN GitLab web interface.

Please sign in with your personal account. New accounts can be created for selected e-mail addresses only. Please contact the site admins if you need any help.

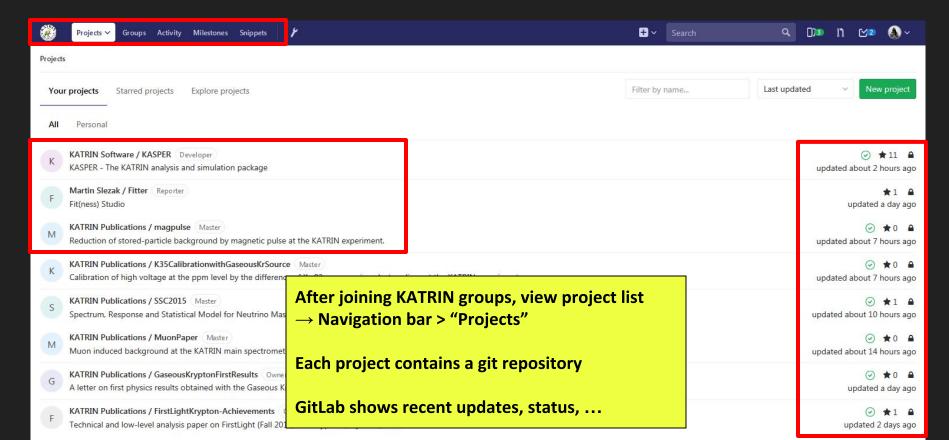
Sign in	Register
Full name	
Username	
Email	
Email confirmation	
Password	
	•••]
Minimum length is 8 character	rs
Regi	ster

Didn't receive a confirmation email? Request a new one.

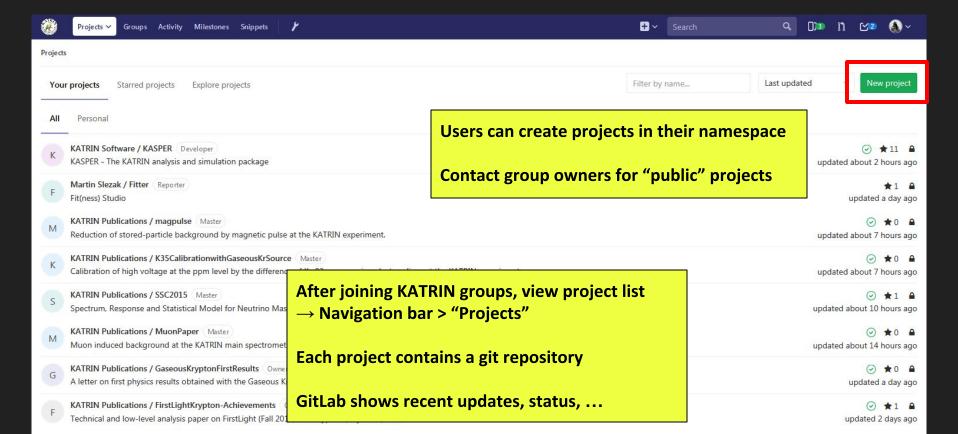
GitLab: Access



GitLab: Projects (1)

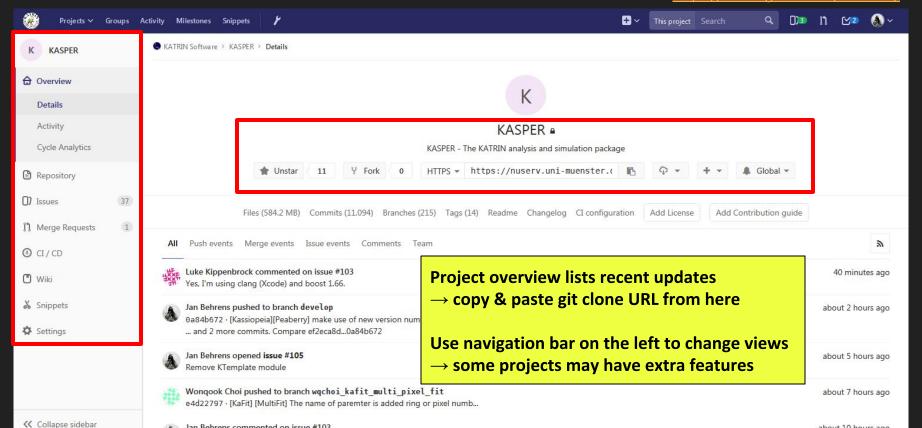


GitLab: Projects (2)

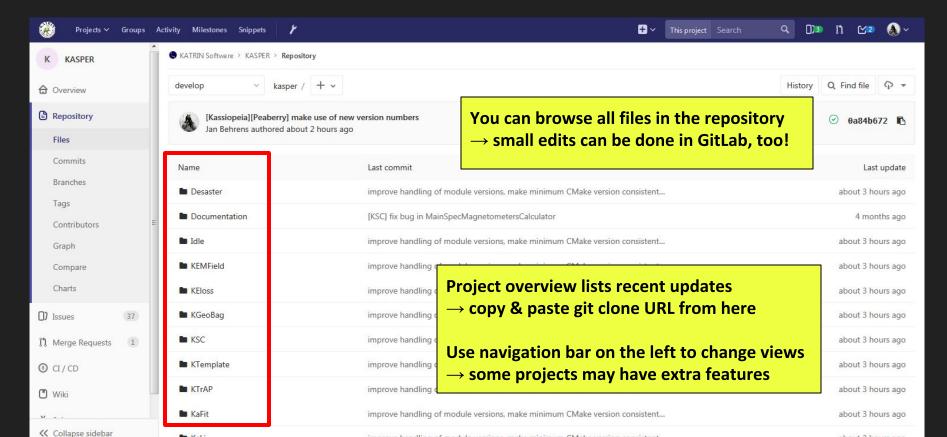


GitLab: Code Repository (1)

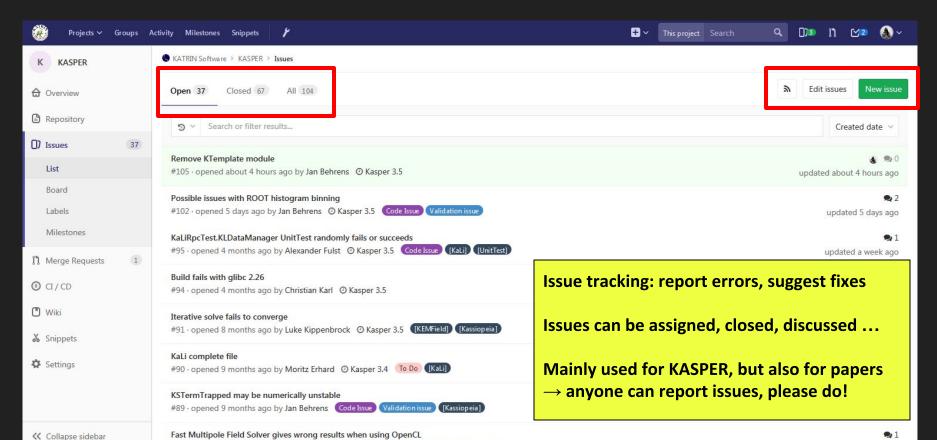
GitLab features & documentation: https://about.gitlab.com/features/



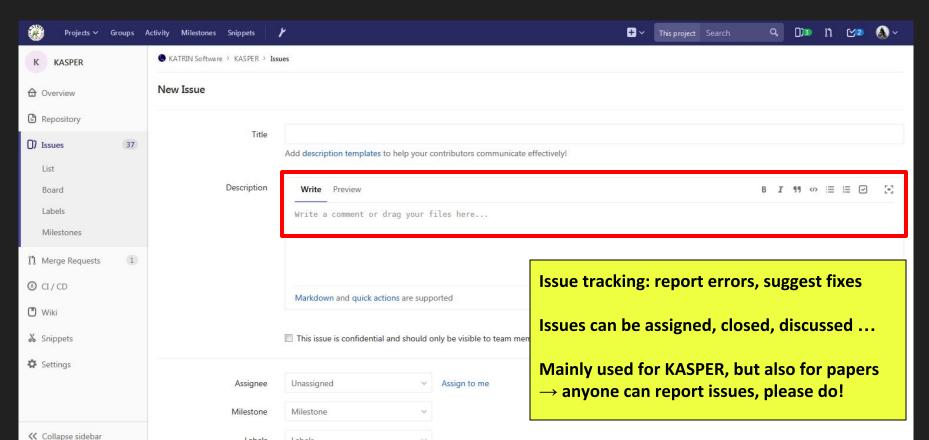
GitLab: Code Repository (2)



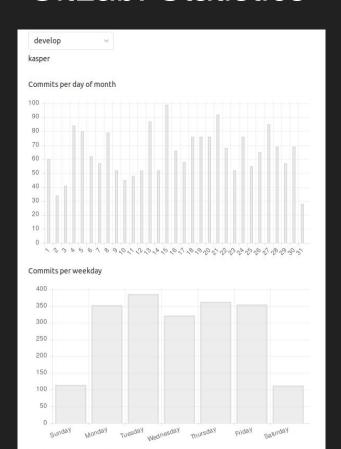
GitLab: Issue Tracking (1)



GitLab: Issue Tracking (2)



GitLab: Statistics



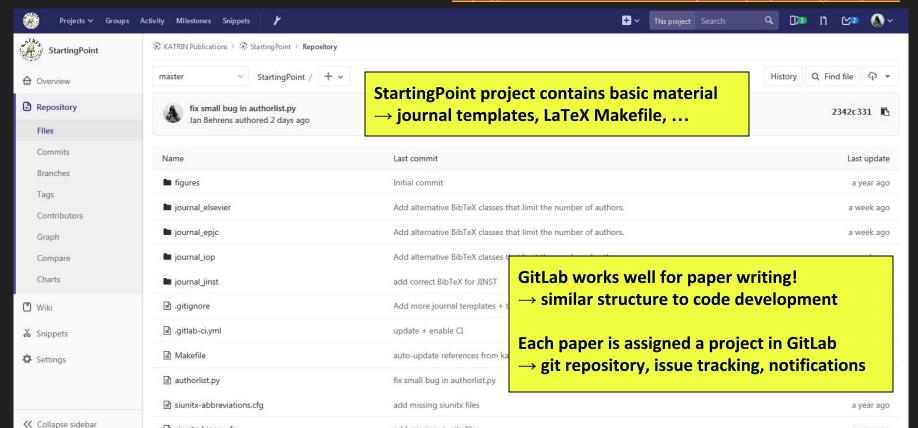


GitLab: Publications (1)



GitLab: Publications (2)

StartingPoint Wiki & Guide for new writers: https://nuserv.uni-muenster.de:8443/katrin-pub/StartingPoint/wikis



TeamSpeak



What? VoIP-based audio communication software.

Runs a TeamSpeak server instance, hosted in Münster.

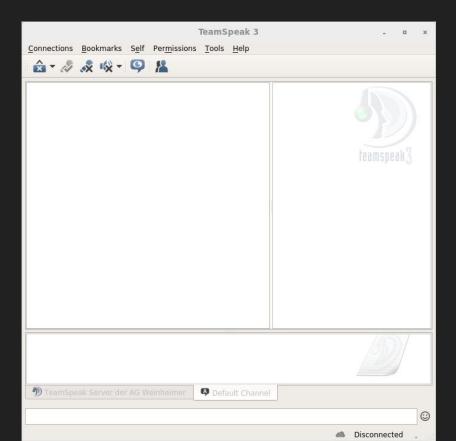
Why? Used for calls, multiple channels allow simultaneous calls.

The server is easily accessible, mobile apps are available.

Good audio quality even for unreliable connections.

Where? <u>ts3server://nuserv.uni-muenster.de</u>

TeamSpeak: Overview



Desktop client software required:

https://teamspeak.com/en/downloads.html

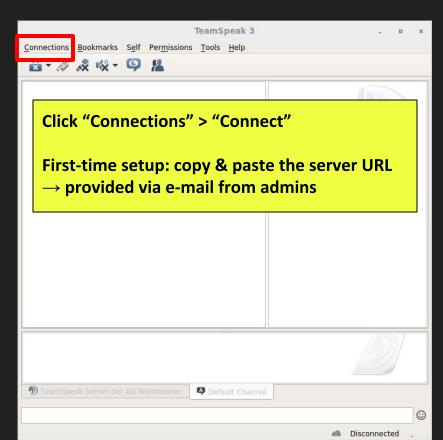
There are mobile apps, too (non-free, few \$)

To get an account, contact one of the admins jan.behrens@kit.edu / alexanderfulst@wwu.de

Account is stored in the client (can be exported)

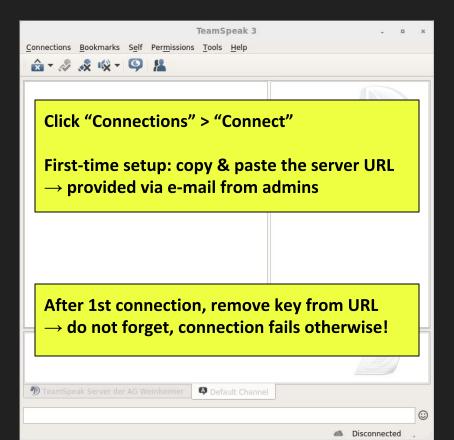
→ you may need another key for other devices

TeamSpeak: Accounts



TODO: connect with priv. key

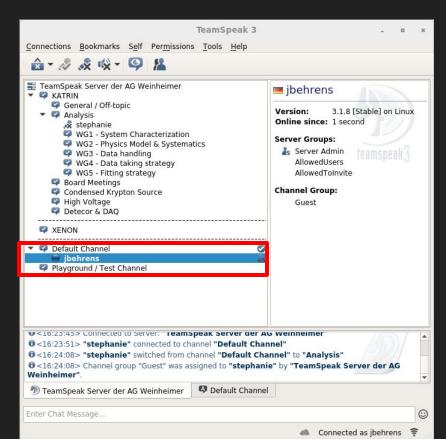
TeamSpeak: Accounts



TODO: connect with priv. key

Server Nickname or <u>A</u> ddress:	erver <u>P</u> assword	
ts3server://nuserv.uni-muenster.de		
Nickname:	_	

TeamSpeak: Getting started (1)

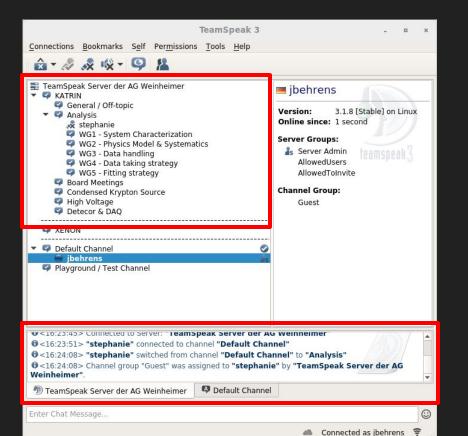


TS server features multiple KATRIN channels

Pick the right channel for your meeting

For testing, use the dedicated channels

TeamSpeak: Getting started (2)



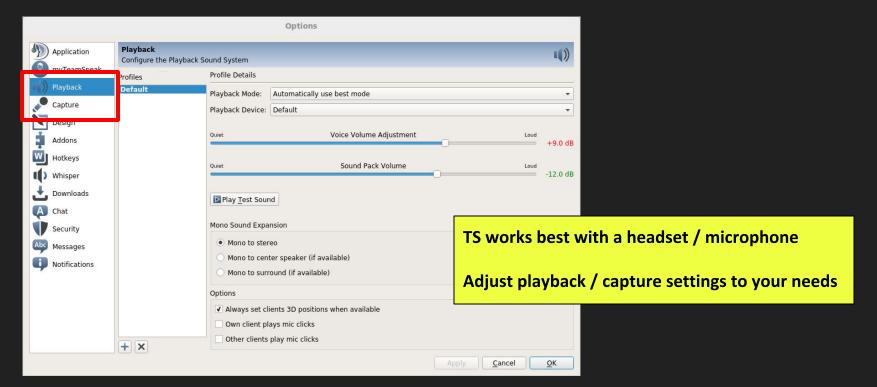
Users can switch between channels

User list shows channels, users & their status

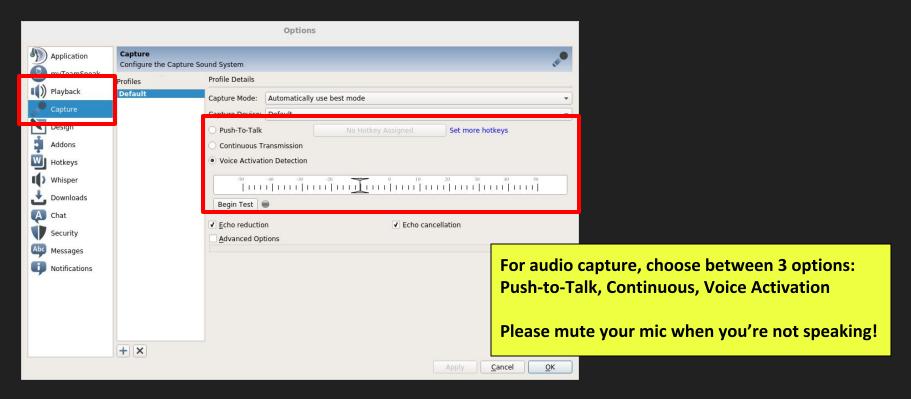
Keep an eye on the channel chat window!

→ ,eeting material is often posted there

TeamSpeak: Audio settings (1)



TeamSpeak: Audio settings (2)



#slack



What?

Team communication tool, similar to a chat platform.

Third party service, currently using "free" plan from slack.com

Why?

Provides a near-time communication platform with notifications. Multiple channels are available for specific discussion topics. Integration with GitLab is possible to get automatic updates.

join #slack <u>here</u> or use QR code:

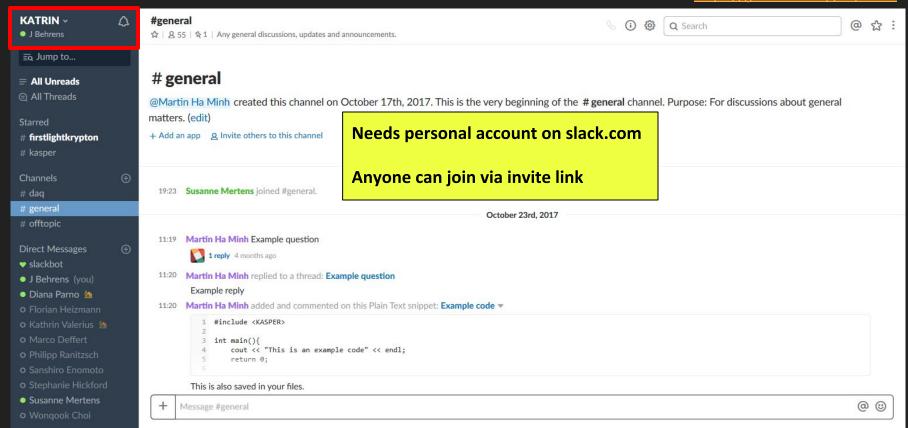
Where?

https://katrin-experiment.slack.com



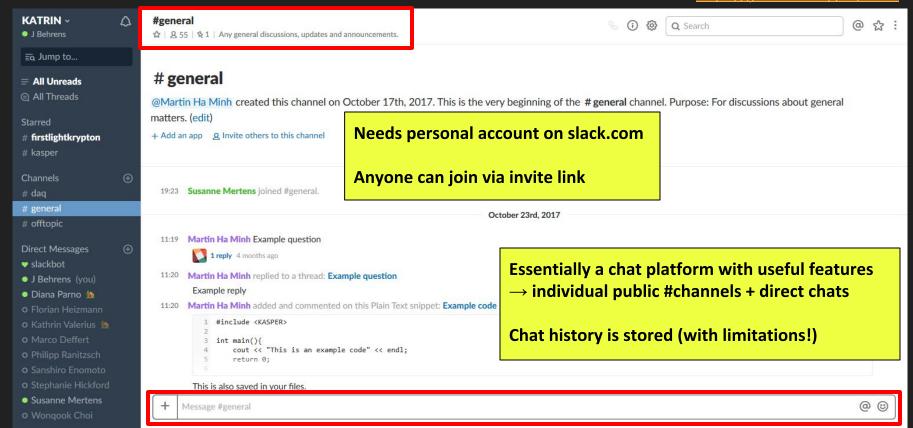
#Slack: Overview (1)

Slack help center & starting guide: https://get.slack.help/hc/en-us

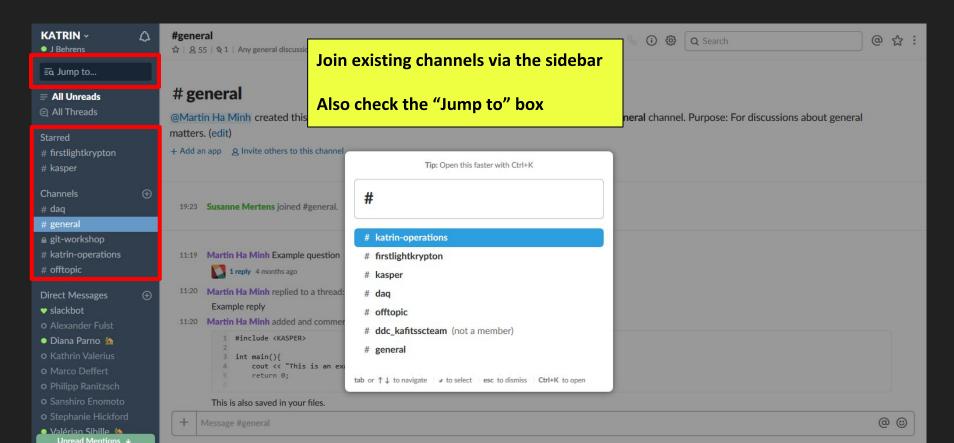


#Slack: Overview (2)

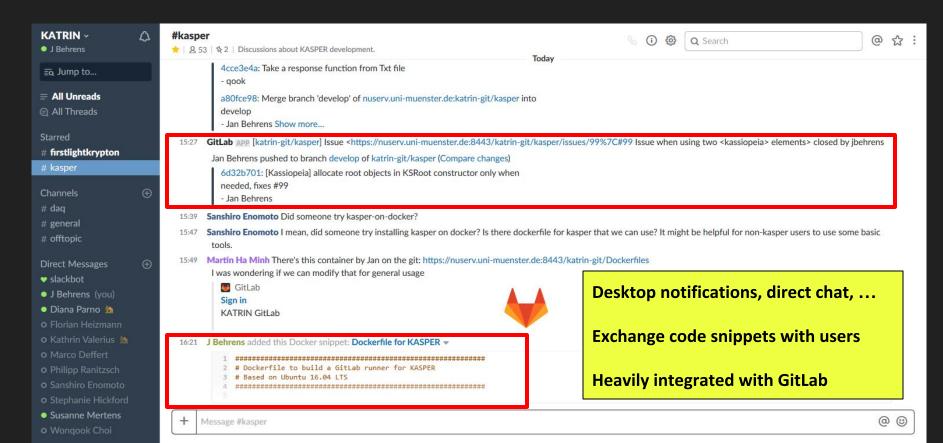
Slack help center & starting guide: https://get.slack.help/hc/en-us



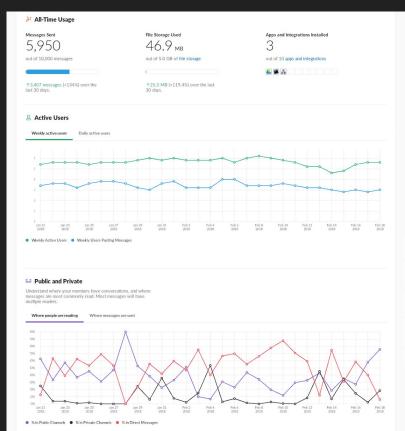
#Slack: Channels

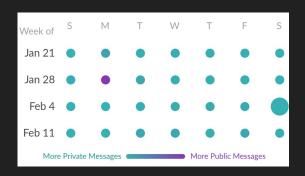


#Slack: Features



#Slack: Statistics





Name	Created	Last Active Date	Total Channel Members	Messages Posted ▼
# firstlightkrypton Draft and publish paper o	2017-11-10	2018-02-18	32	568
# kasper For KASPER related codin	2017-10-23	2018-02-17	53	310
# ddc_kafitsscteam	2018-02-06	2018-02-15	6	19
# katrin-operations channel for operators and	2018-01-17	2018-02-16	13	16

Summary

- We use a combination of different platforms
 - KATRIN Wiki
- → analysis material, organization of ongoing tasks, ...

GitLab

- → collaborative software development & paper writing
- TeamSpeak
- → used for meetings, see list on the Wiki

Slack

→ used for quick discussions, integrated with GitLab

Contact persons:

Jan Behrens

jan.behrens@kit.edu

Wiki/GitLab/Slack/TS

Martin Ha Minh

haminh@mpp.mpg.de

Slack

Alexander Fulst

alexanderfulst@wwu.de

GitLab/TS

Florian Heizmann

florian.heizmann@kit.edu

Wiki/ELOG

Summary

- We use a combination of different p
 - KATRIN Wiki
 - GitLab
 - TeamSpeak
 - Slack

- → analysis material, or
- → collaborative softwa
- → used for meetings,
- → used for quick discu

Contact persons:

Jan Behrens jan.behrens@kit.edu Wiki/GitLab/Slack/TS

Martin Ha Minh
haminh@mpp.mpg.de
Slack

Alexander Fulst

<u>alexanderfulst@wwu.de</u>

GitLab/TS

Florian Heizmann
florian.heizmann@kit.edu
Wiki/ELOG

How a typical KATRIN workshop used to look like ...

