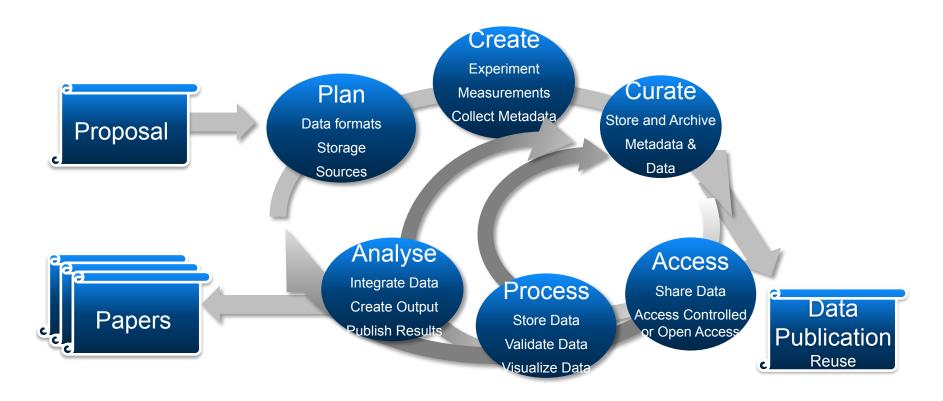


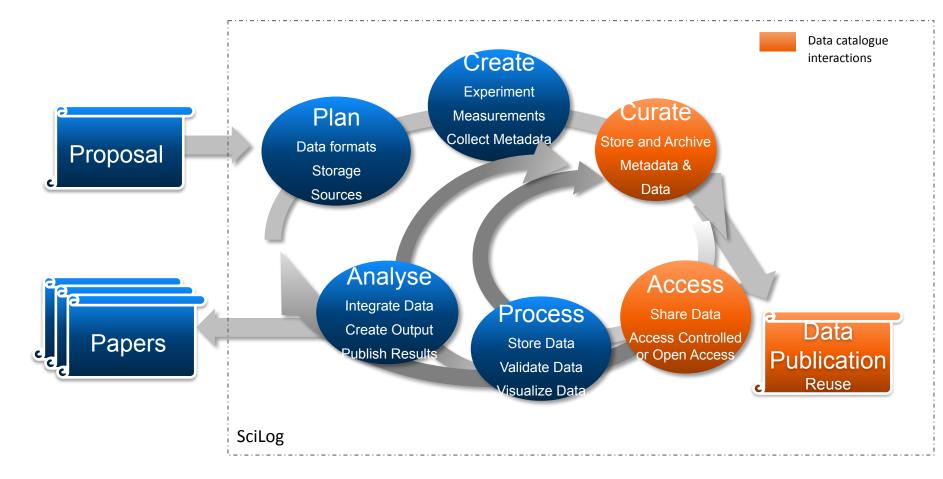
SciLog – An Electronic Logbook for User Experiments

Grenoble, 2024/09

A typical user journey



Interactions with the data curation

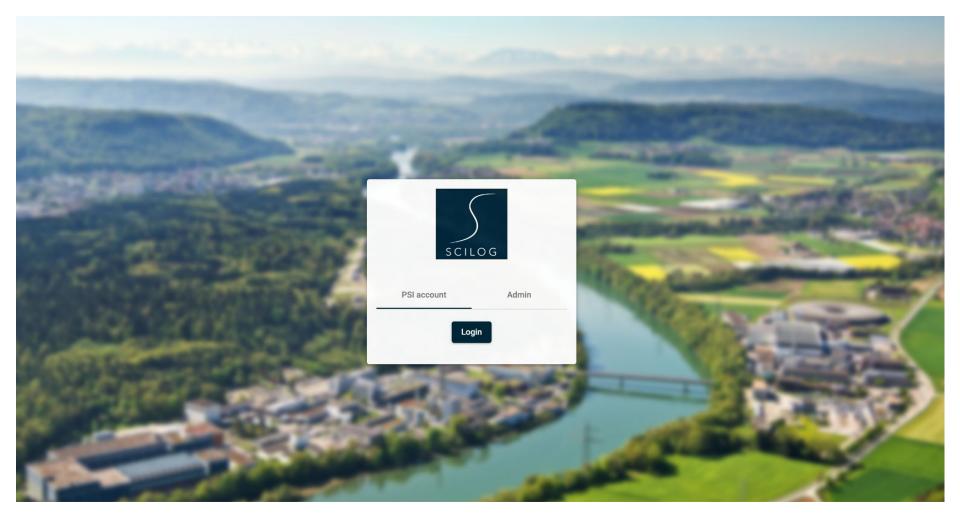


SciLog



Electronic notebook designed to replace traditional paper notebooks

- Collaborative, real-time note taking
- Permissions based on experiment-groups
- Supports **upload** of files
- Notes can be organized
- Keeps track of TODOs
- Content is searchable
- All data is backed up
- Conversion to PDFs and download



Logbooks

Add logbook

Determination of the Magnetic Structure of Incommensurately Modulated K1-xCrSe2 p22168



Delafossite-type ACrX2 (A = Li, Na, K; X = S, Se. Te) compounds are promising candidates for frustrated triangular lattice AFM systems. Using flux synthesis, we obtained large single crystals of the new phase K(1-x)CrSe2 (x ~ 0.13). Its crystal structure is incommensurately modulated due to the K understoichiometry and dominated by undulated [CrSe2] layers. Our anisotropic magnetization measurements indicate FM layers coupled AFM and

Open

Determination of the crystal-electric field in

p22124



Topological magnons in olivine Mn2SiO4: INS experiment versus symmetry prediction p22103



Topological magnetism is a rapidly developing field generating new theoretical ideas capable to result in innovative information technologies. Theoretical predictions which are based on symmetry considerations anticipate existence of topological crossing of magnons in the olivine family Mn2XO4 (X=Ge, Si). By single crystal inelastic neutron scattering we intend to measure excitation spectrum of Mn2SiO4 system, to use it to determine the

Open

investigating the impact of uniaxial pressure on magnetic phases and magnon line broadening the in the multiferroic spinel FeV204

p22118



Pressure tuning of the thinly veiled spin liquid K2Ni2(SO4)3 p22112



The search for quantum spin liquid (QSL) states has primarily focused on quasi-2D antiferromagnetic systems, with 3D systems considered less attractive due to reduced quantum fluctuations. However, the recent discovery of a QSL candidate, K2Ni2(S04)3, presents a new opportunity to explore spin dynamics in a novel magnetic network with unique spin correlations be independent ex

Kohn anomalies in metallic strontium titanate

p22119



The electron-phonon coupling mechanism in the unconventional superconductor strontium titanate has been the subject of extensive debate. Here we propose to directly determine the electron-phonon coupling strength through measurements of Kohn anomalies in the phonon spectrum of metallic strontium titanate. Highly detailed phonon dispersion measurements

Q Search

Logbooks

Investigation of the ma the new pyrochlore coi

p22111



	$ \begin{array}{ll} \textbf{Pressure-induced magnetic structures near the antiferromagnetic quantum critical point of 4.4\%Sn-doped \\ \hline & \\ \hline & \\ \end{array} $	Electrical transport studies by applying pressure to	p22113	Sep 19, 2024	
	Determination of the Magnetic Structure of Incommensurately Modulated K1-xCrSe2	Delafossite-type ACrX2 (A = Li, Na, K; X = S, Se, Te)	p22168	Sep 19, 2024	
	Topological magnons in olivine Mn2SiO4: INS experiment versus symmetry prediction	Topological magnetism is a rapidly developing field	p22103	Sep 19, 2024	
	Pressure tuning of the thinly veiled spin liquid K2Ni2(SO4)3	The search for quantum spin liquid (QSL) states has	p22112	Sep 19, 2024	
	Kohn anomalies in metallic strontium titanate	The electron-phonon coupling mechanism in the	p22119	Sep 19, 2024	
	Determination of the crystal-electric field in NdBr3	Studying the effect of a slight distortion of the	p22124	Sep 19, 2024	- Me i
	Investigating the impact of uniaxial pressure on magnetic phases and magnon line broadening the in the	The magnetic spinels, of the formula AB2O4 where	p22118	Sep 19, 2024	
	Investigation of the magnetic ground state at low temperature in the new pyrochlore compound Yb2-	This proposal investigates the low-temperature	p22111	Sep 19, 2024	
	Study of the CEF scheme of HolnCu4 as function of magnetic field	Materials featuring magnetic frustration are at the	p22102	Sep 19, 2024	
	Characterization of spiral and collinear magnetic structures in YBaCuFeO5 single crystals with distinct	YBaCuFeO5 (YBCFO) is a promising oxide for room-	p20241081	Sep 19, 2024	
	Water dynamics in PEDOT:PSS/CNF films in dependence of ionic strength followed simultaneously with	PEDOT:PSS is an electrically conductive polymer,	p22127	Sep 19, 2024	- Mon
	Measurement of thickness and scattering length density of solid electrolyte interphase (SEI) on model Si	We have chemically aged amorphous Si-wafers in	p22097	Sep 19, 2024	13153300
	Magnetic crystal structure of natural vermiculite clay - large band gap semiconductor with the magnetic	The goal of the experiment is to determine magnetic	p22110	Sep 19, 2024	

Logbooks

p22168

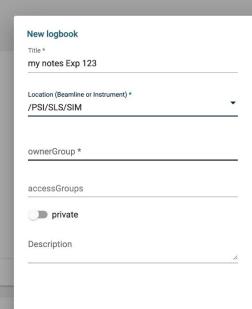


Delafossite-type ACrX2 (A = Li, Na, K; X = S,

candidates for frustrated triangular lattice

AFM systems Using flux synthesis we

Se, Te) compounds are promising





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Topological magnetism is a rapidly developing field generating new theoretical ideas capable to result in innovative information technologies. Theoretical

The search for quantum spin liquid (QSL) states has primarily focused on quasi-2D antiferromagnetic systems, with 3D evstems considered less attractive due to

The electron-phonon coupling mechanism in the unconventional superconductor strontium titanate has been the subject of extensive debate. Here we propose to

OK

:::



Tasks

Add task

fix aerotech startup with Xiaoqiang

✓ rotate ss camera view 90deg counterclockwise

something cutting the beam at the bottom (not the

Measure flux with Hamamatsu diodeafter SS Beam mark at the entrance flange of KB chamber

Connect dry N2 to Pilatus 2M

NoMachine at x06da cons

camera) with pitch 0.3

FE M1 alignment with beam

Readout exposure box BPM

Start aeroech and PRIGo

Setup channel archiver

Beampipe between SS and KB

magnet

Beam focus on SS

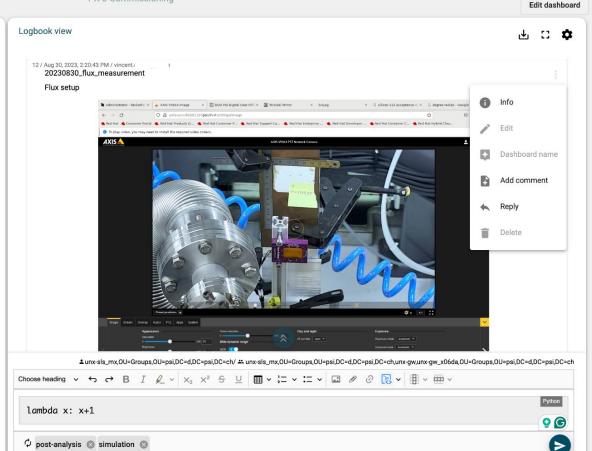


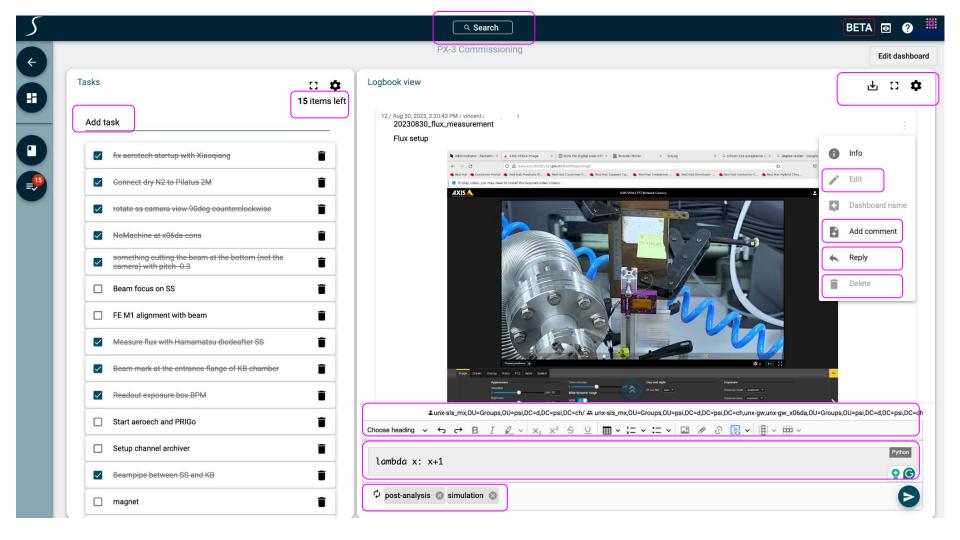


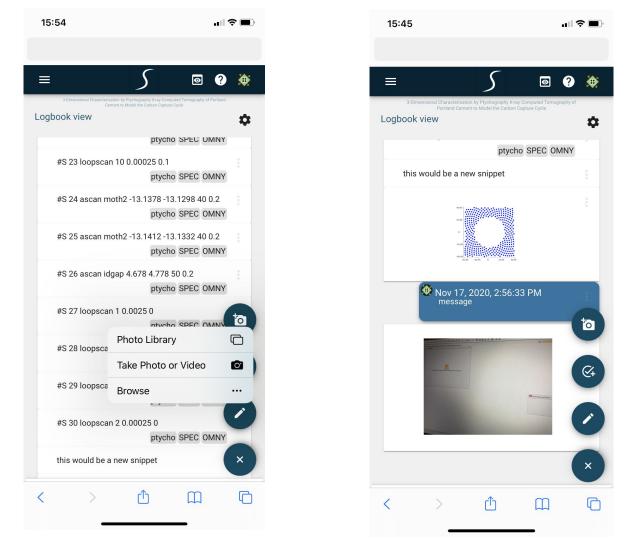


PX-3 Commissioning

E 🌣 15 items left



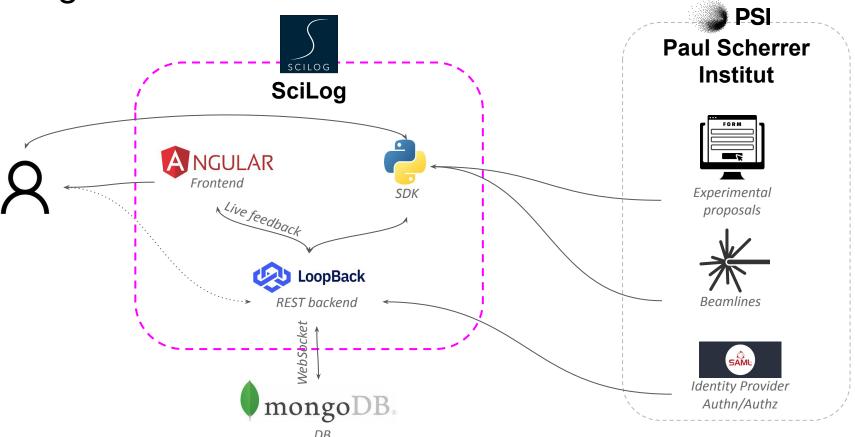


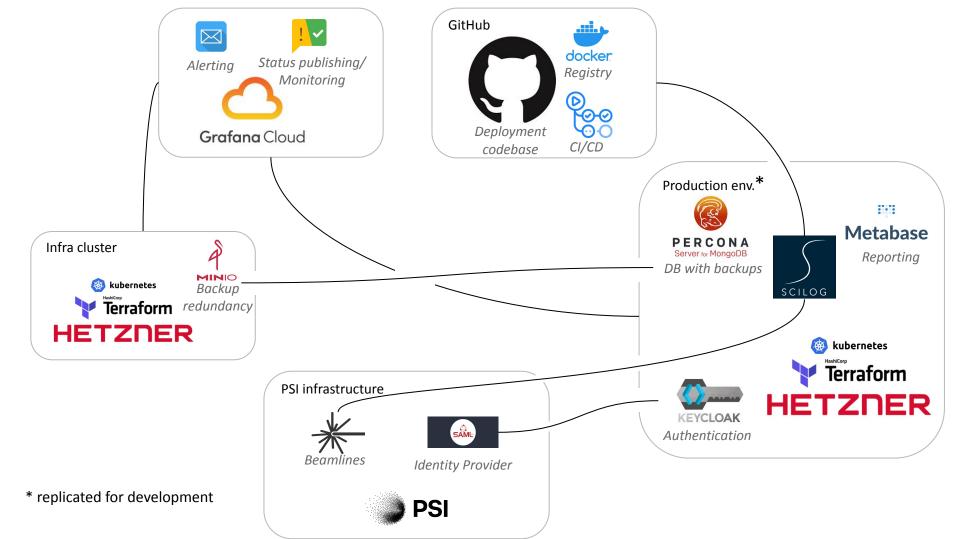


Python SDK for programmatic ingestion

```
pgroup = "p1234"
log = SciLog("https://scilog.psi.ch/api/v1", options={"username": "swissfelaramis-bernina@psi.ch"})
logbooks = log.get logbooks(where={"ownerGroup": pgroup}, limit=10, skip=0)
logbook = logbooks[0]
# make sure that further actions to this logbook
log.select logbook(logbook)
# example of *adding* information (text, images, tags) to this logbook. You can concatenate as much information as you like
msg = LogbookMessage()
msg.add_text("Another example text").add_file("./Image1.png").add tag(["color"]).add text(
   "After the image"
).add_file("./Image2.png").add_tag(["test_tag"])
log.send_logbook_message(msg)
```

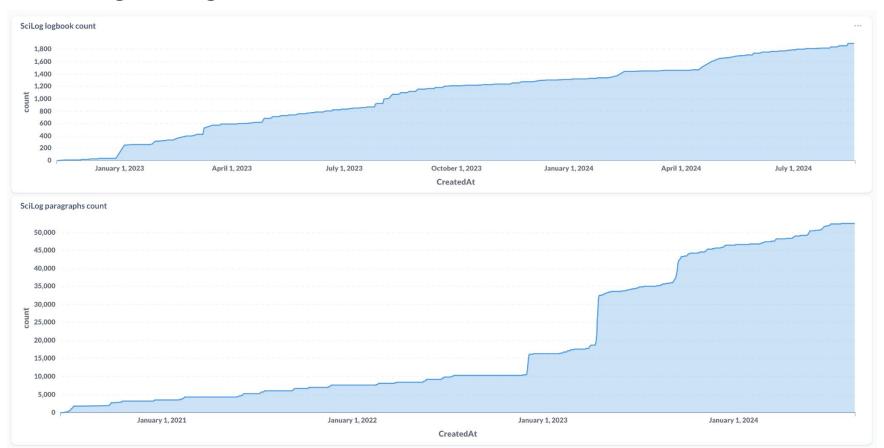
High-level architecture/interactions





SciLog usage





Docs

- SciLog UI: https://scilog.qa.psi.ch)
- SciLog API: https://scilog.ga.psi.ch/api/v1)
- SciLog paper: https://doi.org/10.18429/JACoW-ICALEPCS2023-THPDP073
- SciLog GitHub: https://github.com/paulscherrerinstitute/scilog
- SciLog deploy GitHub: https://github.com/paulscherrerinstitute/scilog-ci



Thank you!