News

Danilo Piparo

6-1-2025

Happy New Year

Forthcoming Deadlines and Events

- Jan 15: ROOT Deadline for Summer Student /OL/ GSoC Projects
  - Please enter them here . For OL students, please discuss with Danilo first.
  - Stretch-goals can be found here for inspiration
- Jan 15-25: Philippe at CERN
- Jan 20 (but the sooner the better) CHEP Proceedings
  - Please make sure your manuscript is reviewed by the proof-reading team (Giacomo, Lukas & Danilo) before submitting
- Jan 22: SFT PoW Day
- Mar 24-26: Idea2 Reserved for the 3rd ROOT Hackathon
  - ROOT 7-athon? Analysis-athon? Anything else?
- April: ROOT Contribution to the SFT Risk Register
  - Model circulated to SFT Project Leaders, we'll need to make some progress

Risk Register

ID	Risk Summary	Risk Detail	Risk Likelihood	Risk Impact	Risk Severity	Effect	Mitigation
Owner: EP-SFT							
0.1							
Owner: ROOT							
1.1							
Owner: Simulation							
2.1							
Owner: CernVM							
3.1							
Owner: Stacks							
4.1							
Owner: ML4EP							
5.1							
Owner: Other							
6.1							
Legend							
Likelihood	1: never expected to happen						
	2: could happen but very unlikely						
	3: could well happen						
	4: will probably happen						
Impact	1: we can deal with it, no problem						
	2: a bit of a hassle but not too bad						
	3: can be managed, but significant effort						
	4: crisis						
Severity	*Likelihood* x *Impact*						

- See WLCG RR for reference

CHEP Proceedings Email

CHEP 2024 - Proceedings, additional informations

Tomasz Szumlak

To: chep-info (CHEP News); chep2024-general (Mailing list for CHEP 2024 conference related issues); +2 others

Reply | Reply all | Forward

Fri 1/3/2025 13:07

Dear CHEP contributors,

We are now accepting the proceeding papers with the hard deadline for **sending the complete draft by Feb 28 2025**. There will be no further deadline extensions because of the strict publication timeline. Please refer to our web page for more information: https://indico.cern.ch/event/1338689/page/36591-paper-submission. Should you need help with the submission, please send a message to chep2024-pc@cern.ch.

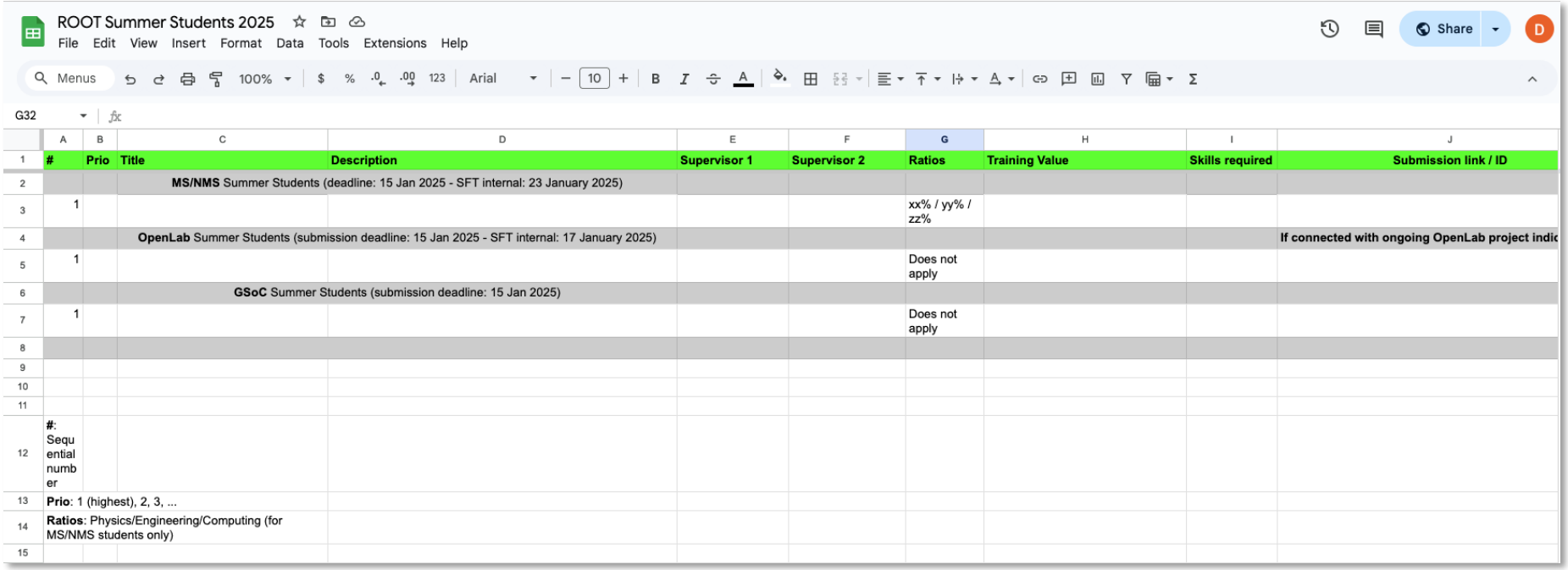
Authors are strongly encouraged to consult the official journal guidelines before sending inquiries to the PCs:

a) Instructions "how to prepare your article": https://www.epj-conferences.org/doc_journal/woc/pdf_guidelines.pdf
b) Publication right form (to be signed by at least one of the authors):https://www.epj-conferences.org/doc_journal/woc/publication_right_form.pdf
c) Ethical rules https://www.epj-conferences.org/about-the-journal/publishing-policies-ethics and General editorial guideline https://www.epj-conferences.org/doc_journal/woc/epjconf_editorial_guidelines.pdf
d) The templates are available at: https://www.epj-conferences.org/for-authors. We will use the single-column version, and because of the guidelines from the journal, we encourage authors to choose a latex template. NOTE: the templates should not be changed or adjusted apart from the content you put in.

Please take great care of preparing the correct author list with proper affiliations. Any corrections after the publication has been accepted will not be possible (this would be required to write an addendum to the online issue at a price tag we cannot cover).

Finally, the journal requires that a plagiarism report be sent along with the paper. The journal's rules can be consulted here: https://publicationethics.org/cope-positions#plagiarism.

On behlf of IAC, LOC and PC Tomasz Szumlak



ROOT Summer Students 2025

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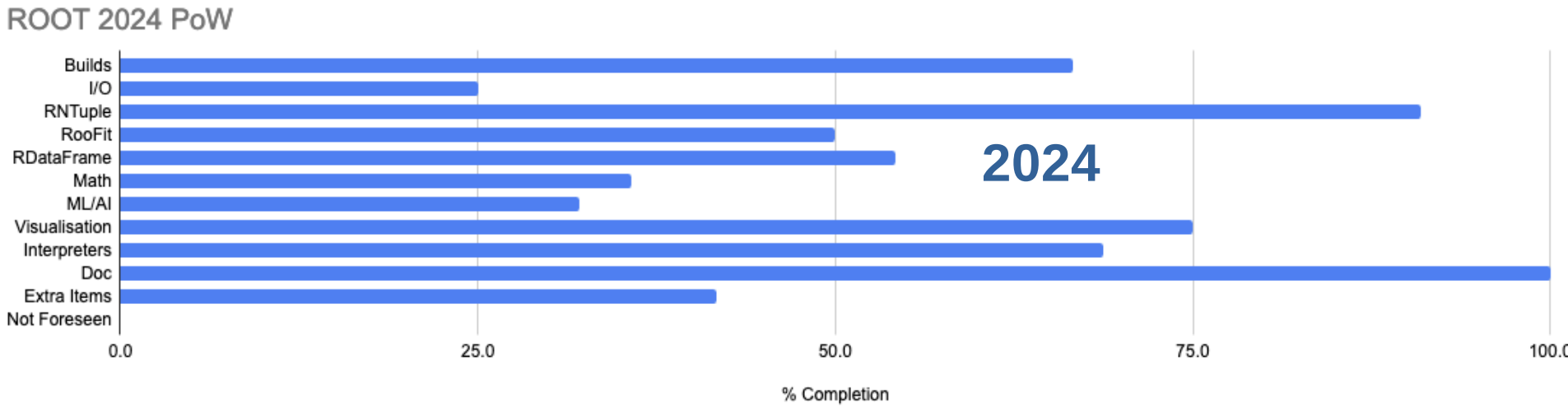
	A	B	C	D	E	F	G	H	I	J
1	**#**	**Prio**	**Title**	**Description**	**Supervisor 1**	**Supervisor 2**	**Ratios**	**Training Value**	**Skills required**	**Submission link / ID**
2			**MS/NMS** Summer Students (deadline: 15 Jan 2025 - SFT internal: 23 January 2025)							
3	1						xx% / yy% / zz%			
4			**OpenLab** Summer Students (submission deadline: 15 Jan 2025 - SFT internal: 17 January 2025)							**If connected with ongoing OpenLab project indic**
5	1						Does not apply			
6			**GSoC** Summer Students (submission deadline: 15 Jan 2025)							
7	1						Does not apply			
8										
9										
10										
11										
12	**#**: Sequential number									
13	**Prio**: 1 (highest), 2, 3, ...									
14	**Ratios**: Physics/Engineering/Computing (for MS/NMS students only)									
15										

2025 PoW Available (not announced)

The PoW can always be found at https://root-pow.cern.ch

			Priority	Compl.	
DONE					
PARTIALLY DONE					
NOT DONE					
Builds and Binaries	1	Make all 6.3X releases available on Conda (continuous)	1	0	
	2	Upgrade the Windows CI to Windows 11 & Add MSVC preview builds in the CI	1	0	
	3	Move the ROOT doxy doc generation to the GitHub CI, including its upload for visibility on the web	1	0	
	4	Decommision the existing root.cern server in favour of a simple reverse proxy (in openshift?) + S3/EOS (2024)	1	0	
	5	Make at least one release available for PIP, bringing this distribution channel to a beta for ROOT	2	0	0 %
I/O and TTree	1	Enable schema evolution for std::auto_ptr<T> into std::unique_ptr<T> (2024)	1	0	
	2	Remove the 1GB size limitation for objects written via TTree and row-wise IO (2024)	1	0	
	3	Consistency of std::int types across ROOT I/O (needs changes in TTree I/O) (2024)	2	0	
	4	Create a new prototype Experimental::RFile (replacement for TFile) that works smoothly with old and new APIs	2	0	0 %
RNTuple	1	Take RNTuple classes out of experimental	1	0	
	2	Complete the first coherent set of schema evolution features	1	0	
	3	*EP R&D:* Implement a demonstrator of arbitrary combinations of chains and friends in the RNTupleProcessor	2	0	
	4	*EP R&D:* Design a first version of RNTuple metadata	2	0	0 %
RooFit	1	Numeric integration in n-dim with CUDA (2024)	1	0	
	2	*EP R&D*: Evaluation of custom user functions in CUDA (2024)	1	0	
	3	Perform analytical minimization of nuisance parameters related to MC statistical uncertainties (upstream from CMS Combine)	1	0	
	4	Enable discrete profile likelihood (upstream from CMS Combine)	1	0	
	5	Speedup the computation of the Hessian	2	0	0 %
Analysis	1	Reach feature parity of TTree and RNTuple processing with RDF	1	0	
	2	RDataFrame: enable processing through internal bulk APIs (2024)	1	0	
	3	*EP R&D*: Deliver RDataFrame varied snapshots (2024)	1	0	
	4	Provide a mechanism to expose objectified NanoAOD preserving lazy reads (2024)	2	0	0 %
Math	1	Improve histos and graphs interoperability with NumPy and UHI protocol and write code examples (2024)	1	0	
	2	Advance current new implementation to one testable by experiments, e.g. integrated at a protoype level with rdf (2024)	1	0	
	3	Make numerical algorithms interfaces better accessible from Python e.g. minimisers like Minuit (2024)	1	0	
	4	Update the documentation for the Minuit algorithm	2	0	
	5	*SYCLOPS*: Release a library for Lorentz vector computations on accelerators in SYCL (2024)	2	0	0 %
Graphics and Visualisation	1	Implement auto generated GUI for selected REveElement members	2	0	
	2	TScatter2D: Extension of TScatter (4-dim visualisation) to 5-dim	2	0	
	3	Reduce the time needed and improve user experience of batch image production with web graphics	2	0	
	4	Improve documentation of TWebCanvas and RWebWindow classes	2	0	
	6	Improve REve client's window manger: undock action to spawn a new window, and increas performance of Geo Browser	2	0	0 %
Interpreters	1	*EP R&D* Use CppInterOp to replace internals of TClingCallFunc, most notably the need to JIT strings	1	0	
	2	*SYCLOPS* Expose SYCL (prototype) support of ROOT's interpreter	2	0	
	4	Review and cleanup whenever possible downstream Clang patches and C++ language extensions	2	0	0 %
			overall:		**0 % i.e. 0 / 35 items**

Let me know if something is not correct

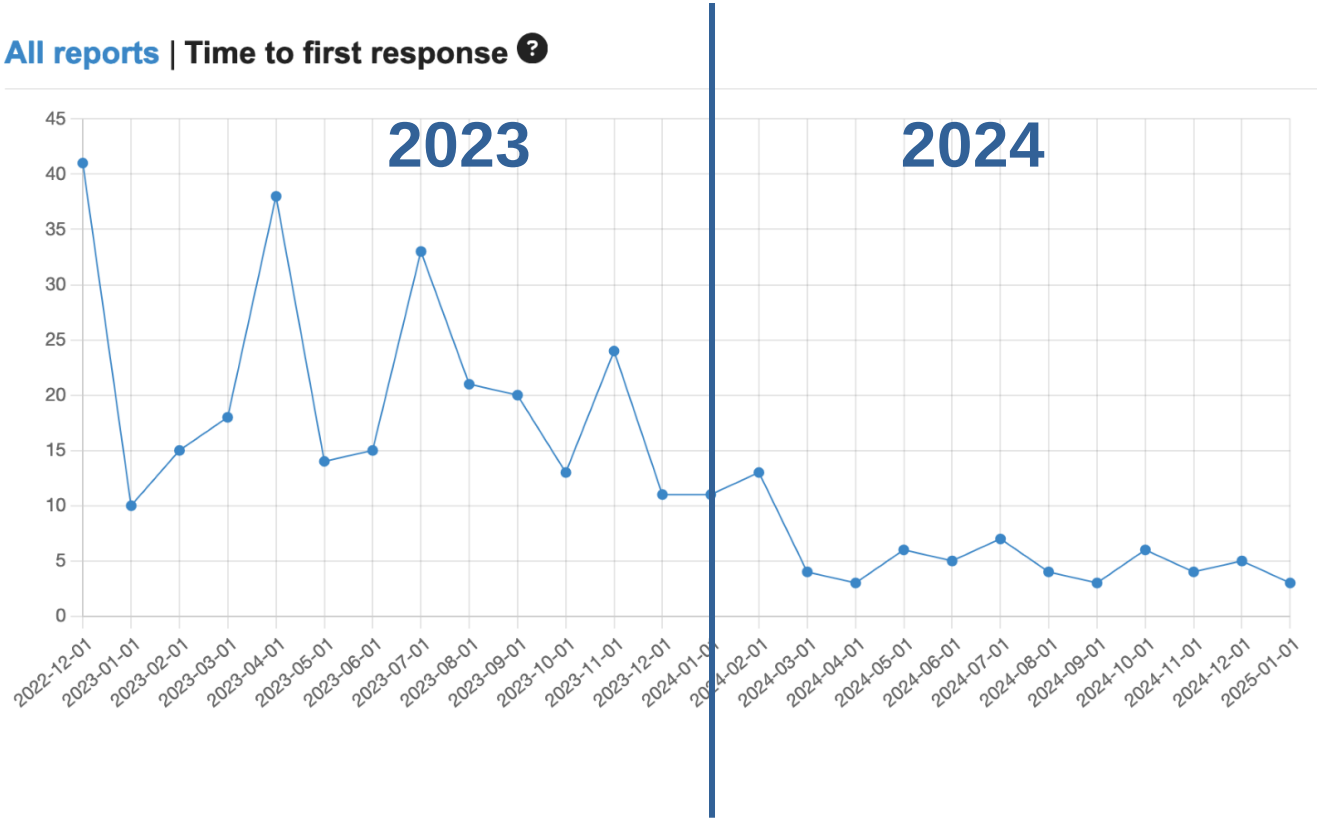


2024

overall:	59	%	i.e.	39	/	74	items
overall + Extra Items:	61	%	i.e.	45	/	74	items

2023

overall:	49	%	i.e.	24	/	56	items
overall + Extra Items:	56	%	i.e.	32	/	56	items


All reports | Time to first response
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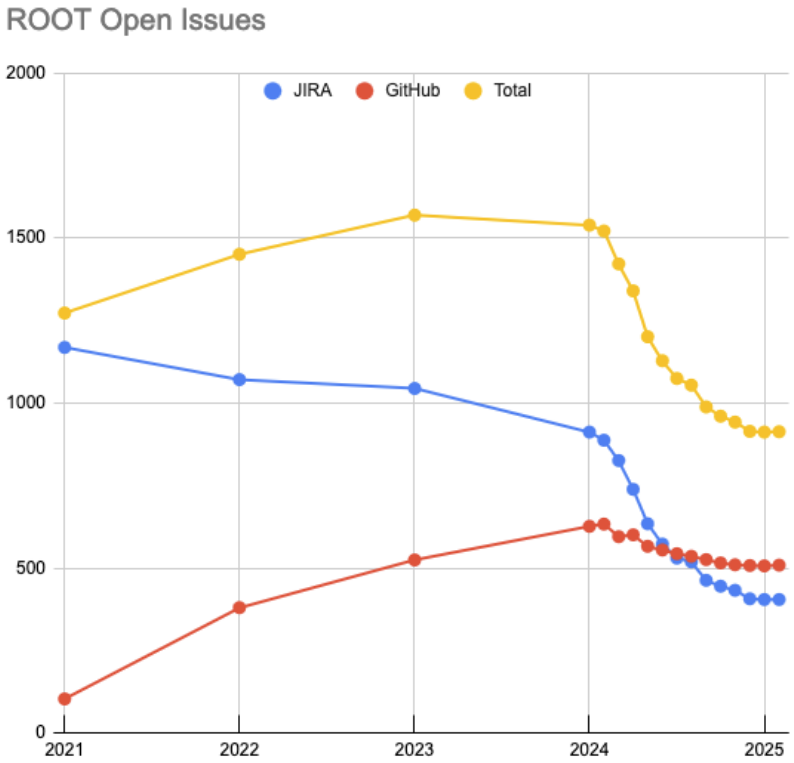

- -41% wrt 2023
- Started to increase during January: need to work on some open items
- Monotonic reduction of backlog while keeping up with new items is within reach, also for 2025