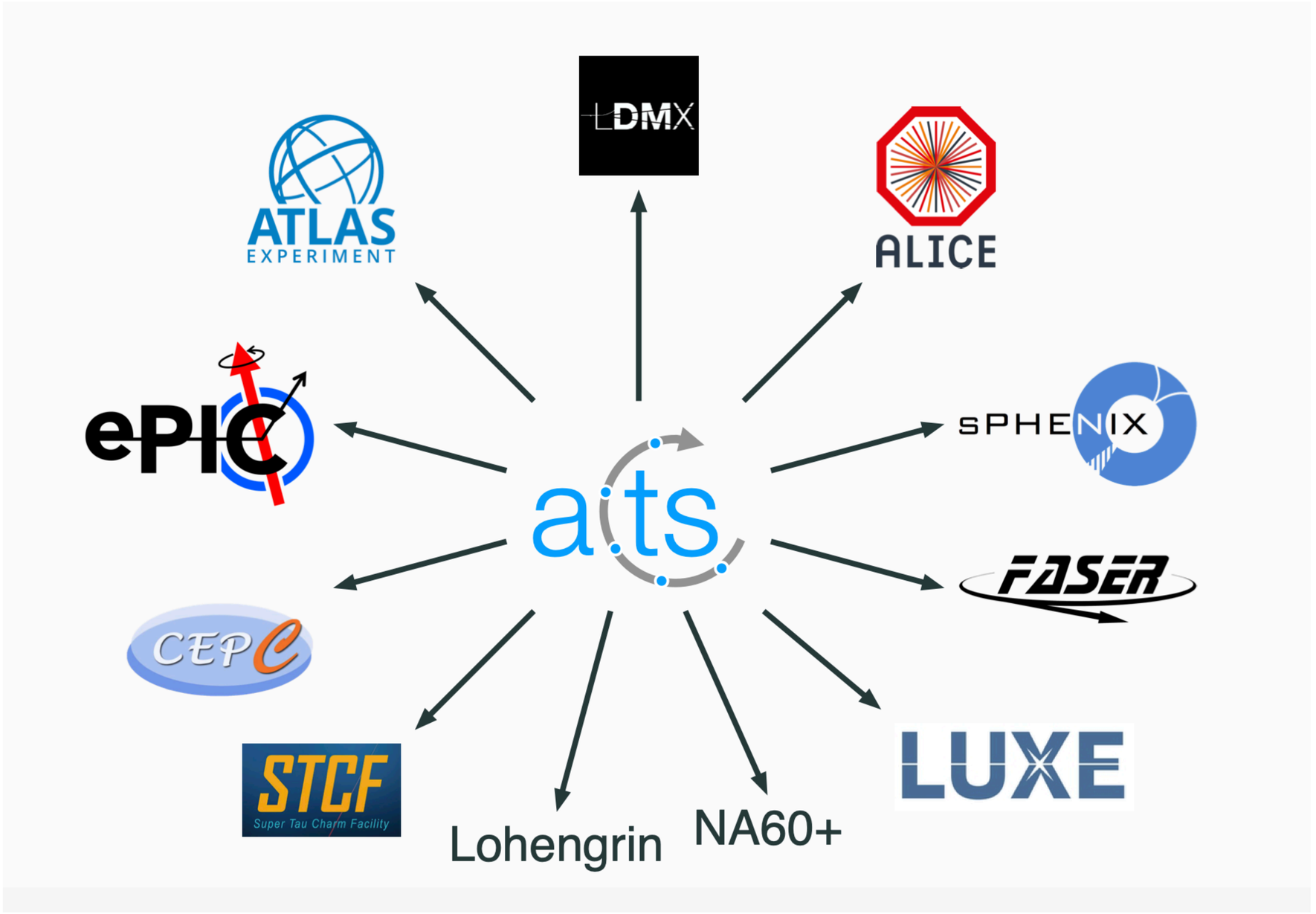
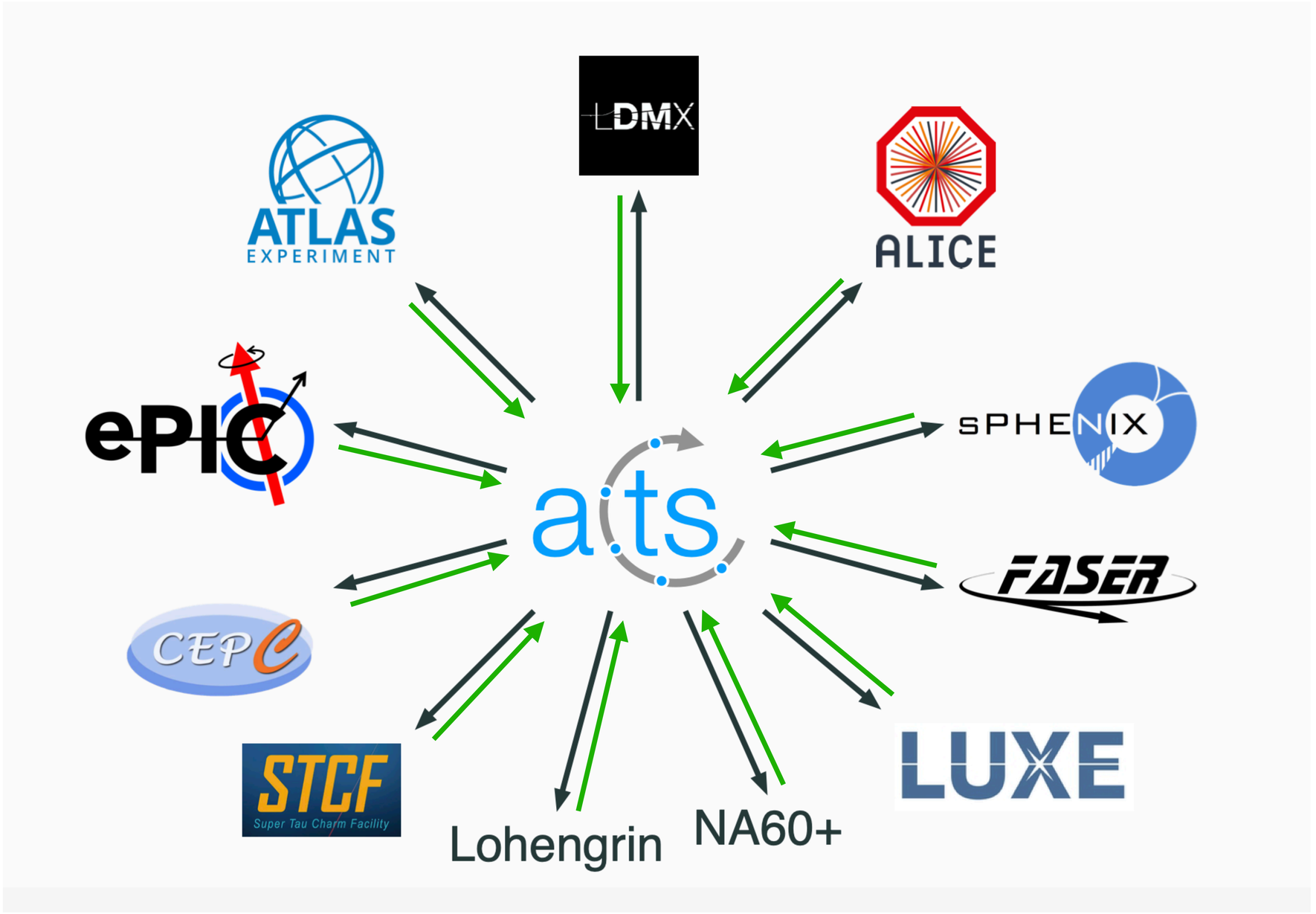

A few conclusions
Andi

A few corrections

NOT- not-boss-andi,


ATLAS
EXPERIMENT
LDMX
ALICE
ePIC
sPHENIX
a:ts
FASER
CEPC
STCF
Super Tau Charm Facility
Lohengrin
NA60+
LUXE


LDMX
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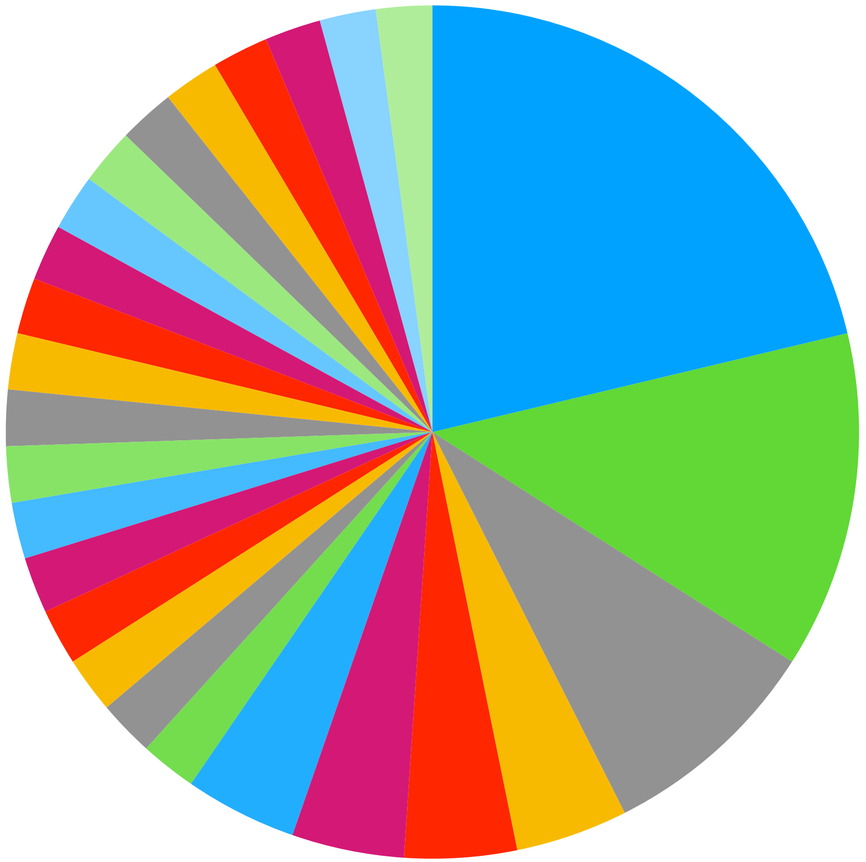

- CERN
- University of California Berkeley (US)
- AGH University of Krakow (PL)
- Chinese Academy of Sciences (CN)
- Heidelberg University (DE)
- Universidade de Sao Paulo (BR)
- Zhengzhou University (CN)
- Aristotle University of Thessaloniki (GR)
- Brookhaven National Laboratory (US)
- Computer Science, University of Huddersfield (UK)
- Duke University (US)
- IJCLab, Université Paris-Saclay (FR)
- INFN Torino (Italy)
- Inha University (KR)
- Johannes Gutenberg Universitaet Mainz (DE)
- Royal Holloway, University of London (GB)
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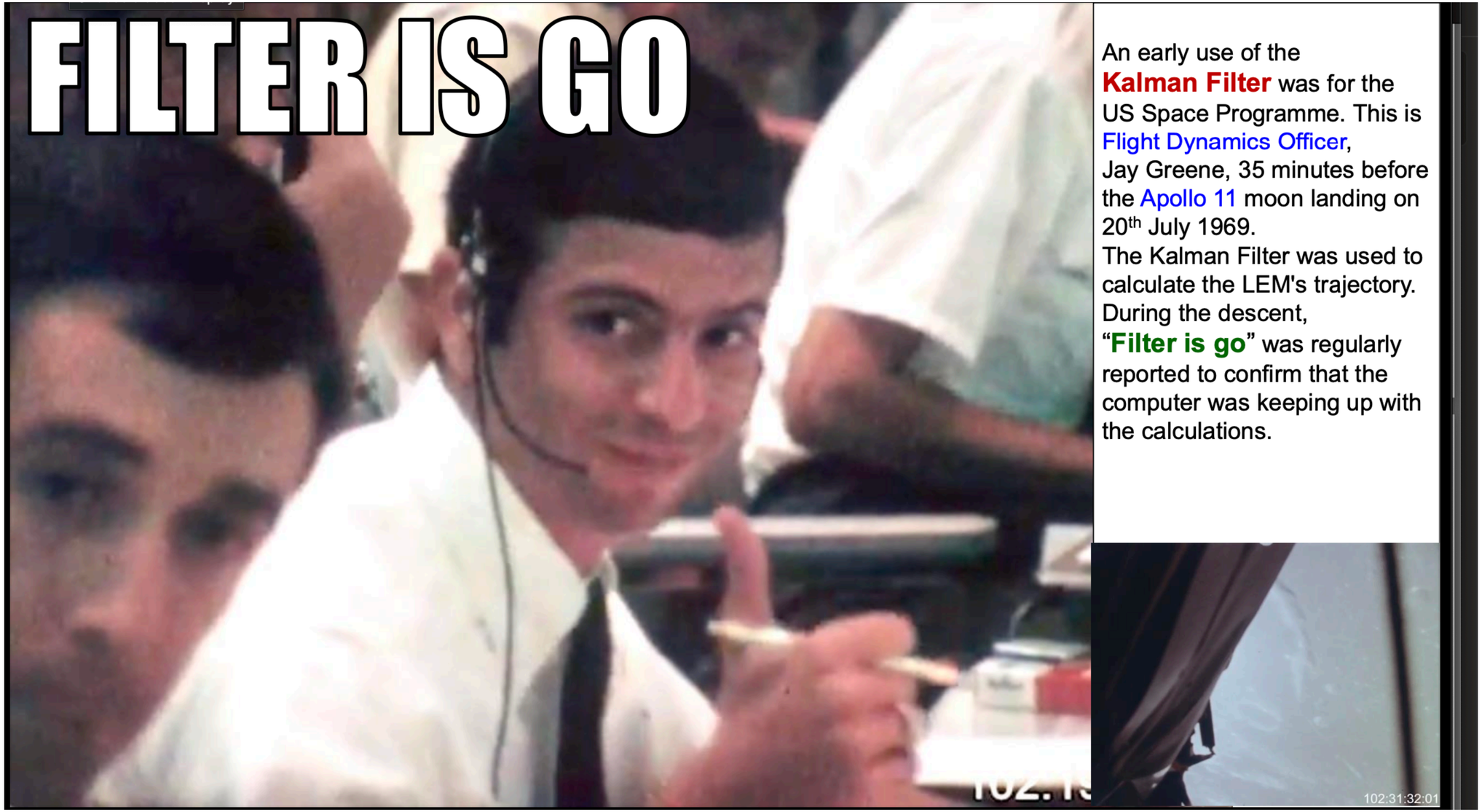
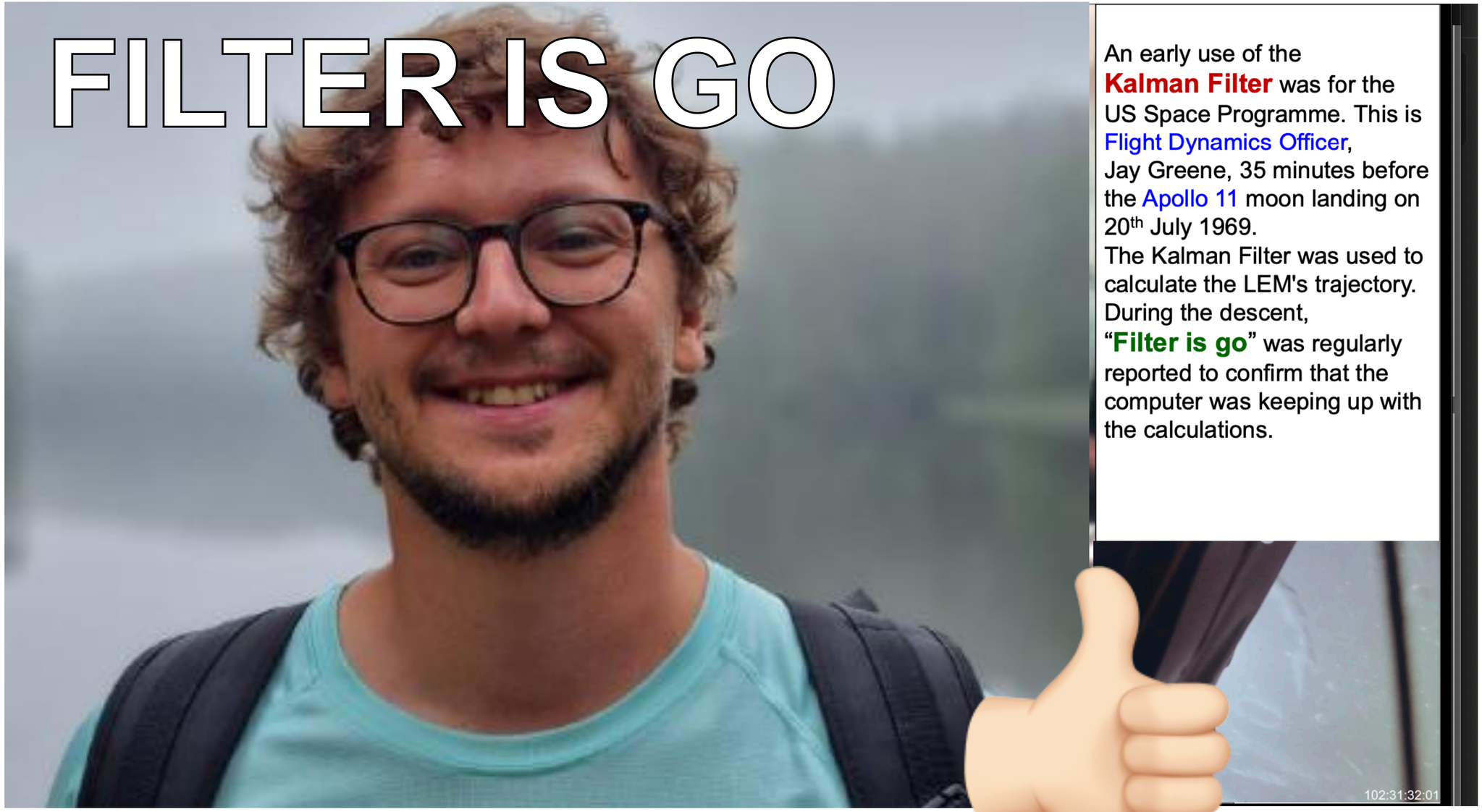
- Universita e INFN, Torino (IT)
- University of Graz (AT)
- University of Oregon (US)
- University of Thessaly (GR)
- Weizmann Institute of Science (ISR)



An early use of the **Kalman Filter** was for the US Space Programme. This is Flight Dynamics Officer, Jay Greene, 35 minutes before the Apollo 11 moon landing on 20th July 1969.
The Kalman Filter was used to calculate the LEM's trajectory. During the descent, "**Filter is go**" was regularly reported to confirm that the computer was keeping up with the calculations.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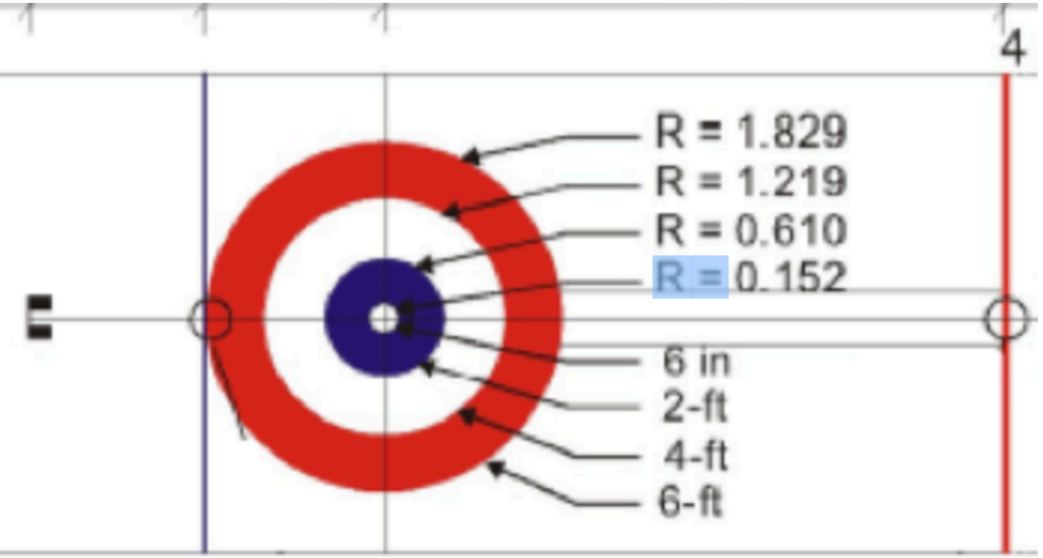
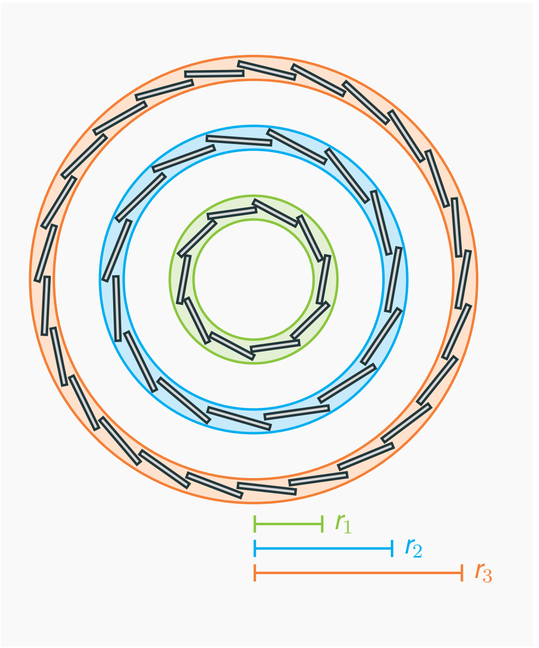
102:31:32:01

Curling house

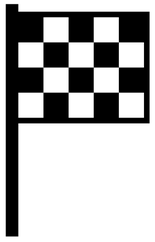


ACTS detector



fire is good

this fire is bad



Hands-on sessions …

A: 0
B: 0

7. `ActsScalar` removal -> PR #3873

Interested parties: Paul, not-boss-andi, Stephen, Alex

refactor!: remove `ActsScalar` #3873

Open **AJPfleger** wants to merge 9 commits into `acts-project:main` from `AJPfleger:remove-actsscalar`

Conversation 4 | Commits 9 | Checks 42 | Files changed 320

AJPfleger commented yesterday • edited — Member

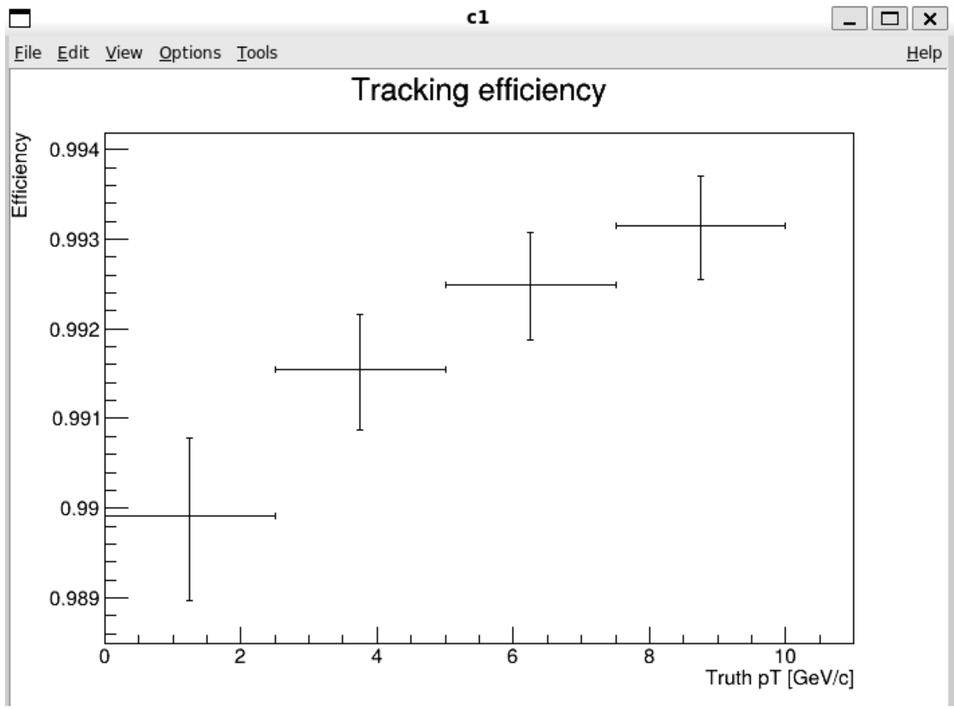
We concluded, that there is not really a use for `ActsScalar` as it is now:

- CPUs should have the same performance for `float` and `double`
- If we wanted to check performance, we would want separate scalar types for all components
- It is too complicated to adapt everything correctly.

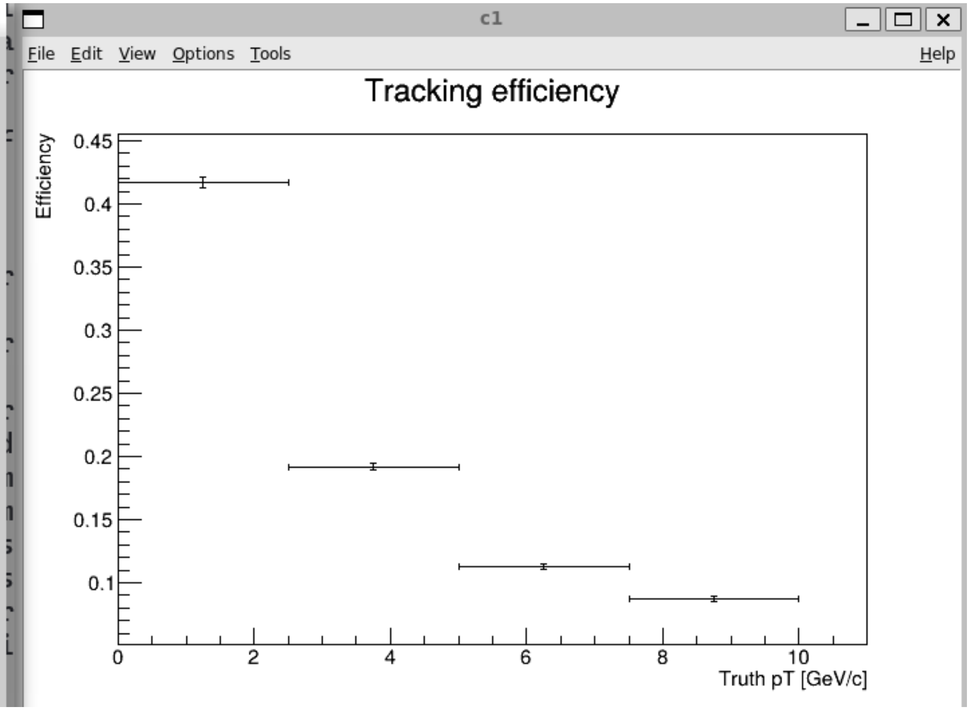
AJPfleger added 5 commits yesterday

11. Misalignment decoration for ODD

Interested parties: Xiaocong, Zequn, boss-Andi



ODD perfectly aligned



ODD misaligned with
new DD4hepGeometryContext

Neeza found her 40 modules …

Database Structure | Browse Data | Edit Pragmas | Execute SQL

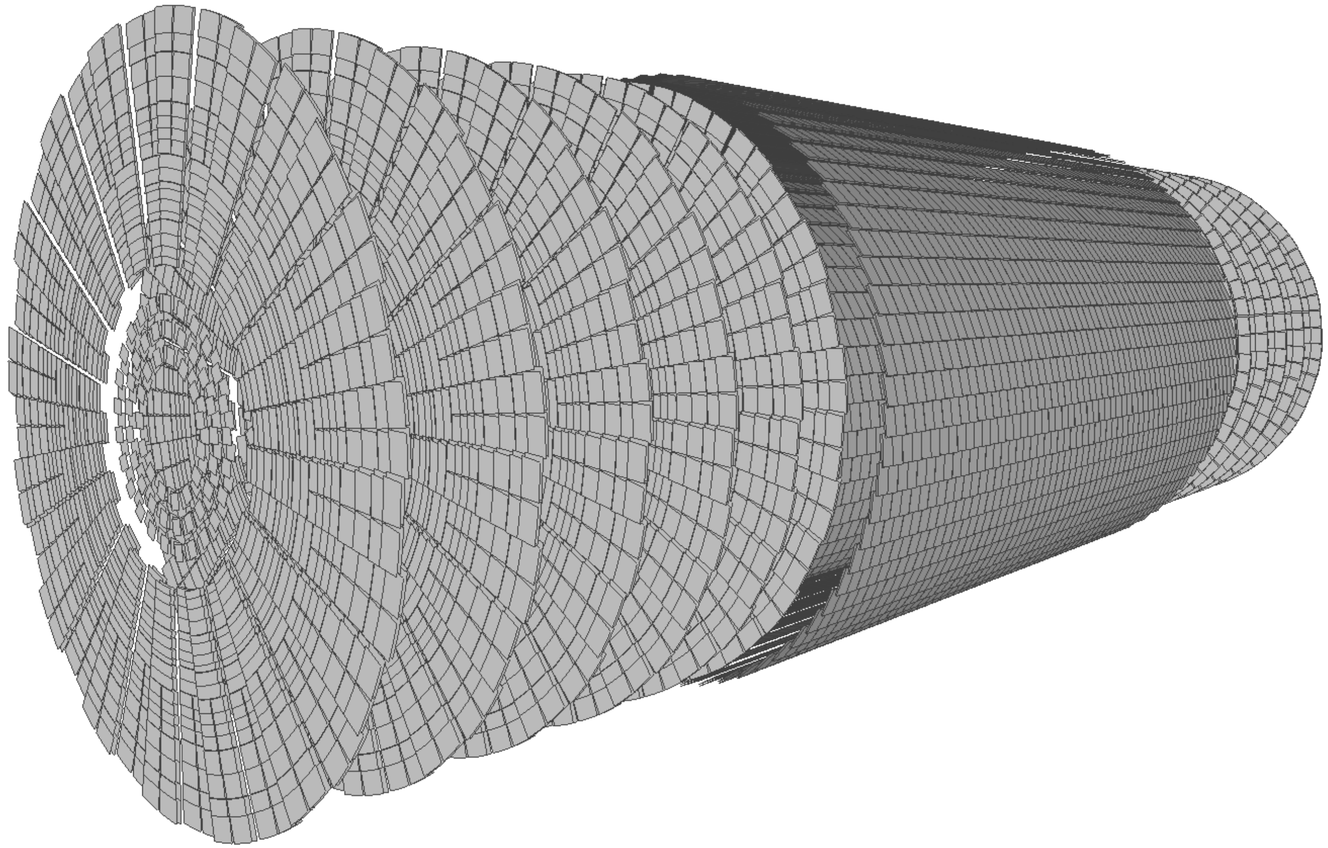
Table: ActsBlueprint

Filter in any column

	id	type	name	bounds	internals
	Filter	Filter	Filter	Filter	Filter
154	154	leaf	ITk/Container/Central/Detectors/Pixels/OuterPixels/PosInclined/Ring2/InclRing5	cyl,e,e,i+2,i+2	layer:kdt,cyl,e,e,700,770
155	155	leaf	ITk/Container/Central/Detectors/Pixels/OuterPixels/PosInclined/Ring2/InclRing6	cyl,e,e,i+2,i+2	layer:kdt,cyl,e,e,770,870
156	156	leaf	ITk/Container/Central/Detectors/Pixels/OuterPixels/PosInclined/Ring2/InclRing7	cyl,e,e,i+2,i+2	layer:kdt,cyl,e,e,870,990
157	157	leaf	ITk/Container/Central/Detectors/Pixels/OuterPixels/PosInclined/Ring2/InclRing8	cyl,e,e,i+2,i+2	layer:kdt,cyl,e,e,990,1090
158	158	container:13	ITk/Container/Central/Detectors/Pixels/InnerPixels/NegOuterEndcap	cyl,e,e,e,-1090.0	children:*,Disk0,*,Disk1,*,Disk2,*,Disk3,*,Disk4,*,Disk5,*,Disk...
159	159	leaf	ITk/Container/Central/Detectors/Pixels/InnerPixels/NegOuterEndcap/Disk14	cyl,e,e,i+2,i+2	layer:kdt,cyl,e,e,-2700,-2500
160	160	leaf	ITk/Container/Central/Detectors/Pixels/InnerPixels/NegOuterEndcap/Disk13	cyl,e,e,i+2,i+2	layer:kdt,cyl,e,e,-2500,-2200
161	161	leaf	ITk/Container/Central/Detectors/Pixels/InnerPixels/NegOuterEndcap/Disk12	cyl,e,e,i+2,i+2	layer:kdt,cyl,e,e,-2200,-2000
162	162	leaf	ITk/Container/Central/Detectors/Pixels/InnerPixels/NegOuterEndcap/Disk11	cyl,e,e,i+2,i+2	layer:kdt,cyl,e,e,-2000,-1880
163	163	leaf	ITk/Container/Central/Detectors/Pixels/InnerPixels/NegOuterEndcap/Disk10	cyl,e,e,i+2,i+2	layer:kdt,cyl,e,e,-1880,-1800
164	164	leaf	ITk/Container/Central/Detectors/Pixels/InnerPixels/NegOuterEndcap/Disk9	cyl,e,e,i+2,i+2	layer:kdt,cyl,e,e,-1800,-1700
165	165	leaf	ITk/Container/Central/Detectors/Pixels/InnerPixels/NegOuterEndcap/Disk8	cyl,e,e,i+2,i+2	layer:kdt,cyl,e,e,-1700,-1600
166	166	leaf	ITk/Container/Central/Detectors/Pixels/InnerPixels/NegOuterEndcap/Disk7	cyl,e,e,i+2,i+2	layer:kdt,cyl,e,e,-1600,-1520
167	167	leaf	ITk/Container/Central/Detectors/Pixels/InnerPixels/NegOuterEndcap/Disk6	cyl,e,e,i+2,i+2	layer:kdt,cyl,e,e,-1520,-1450
168	168	leaf	ITk/Container/Central/Detectors/Pixels/InnerPixels/NegOuterEndcap/Disk5	cyl,e,e,i+2,i+2	layer:kdt,cyl,e,e,-1450,-1380
169	169	leaf	ITk/Container/Central/Detectors/Pixels/InnerPixels/NegOuterEndcap/Disk4	cyl,e,e,i+2,i+2	layer:kdt,cyl,e,e,-1380,-1300
170	170	leaf	ITk/Container/Central/Detectors/Pixels/InnerPixels/NegOuterEndcap/Disk3	cyl,e,e,i+2,i+2	layer:kdt,cyl,e,e,-1300,-1250
171	171	leaf	ITk/Container/Central/Detectors/Pixels/InnerPixels/NegOuterEndcap/Disk2	cyl,e,e,i+2,i+2	layer:kdt,cyl,e,e,-1250,-1200
172	172	leaf	ITk/Container/Central/Detectors/Pixels/InnerPixels/NegOuterEndcap/Disk1	cyl,e,e,i+2,i+2	layer:kdt,cyl,e,e,-1200,-1120
173	173	leaf	ITk/Container/Central/Detectors/Pixels/InnerPixels/NegOuterEndcap/Disk0	cyl,e,e,i+2,e	layer:kdt,cyl,e,e,-1120,-1090.0

… which I had lost because I can’t count to 14

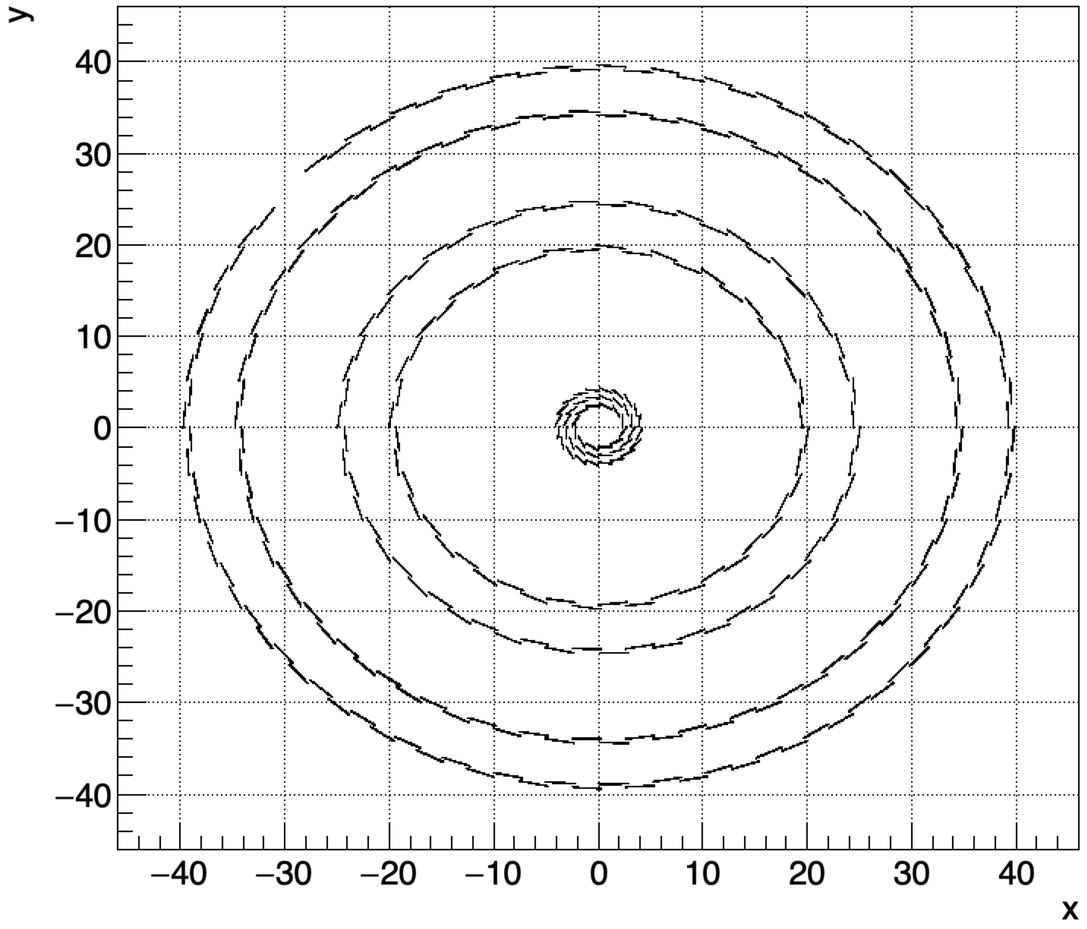
The ITk in detray is complete



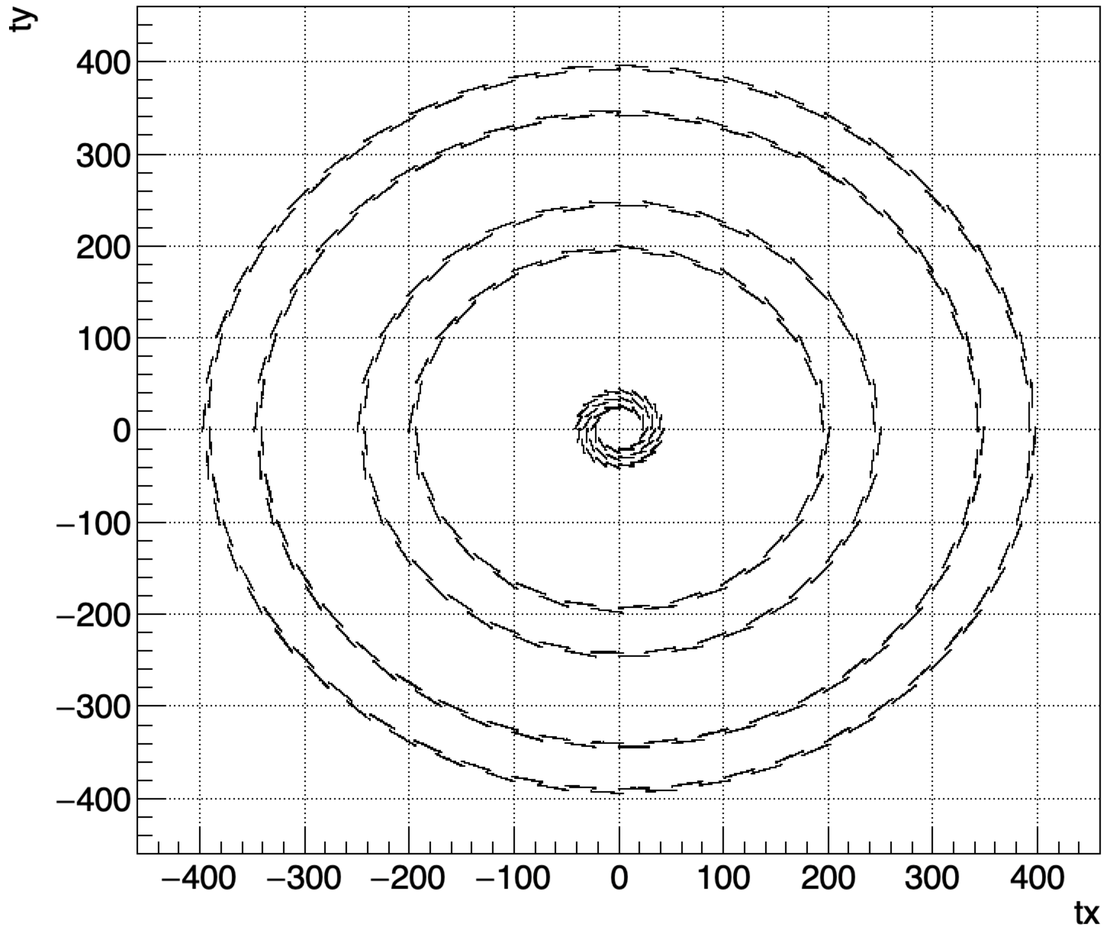
ALICE ITS2 (Run 3) geometry to ACTS

- Exploratory exercise, in view of the future ALICE 3 reconstruction
- ITS2 (Run-3) 7-layer pixel tracker, tracks to be connected to TPC tracks

Real clusters (Pb-Pb 2023)



MC hits with ACTS



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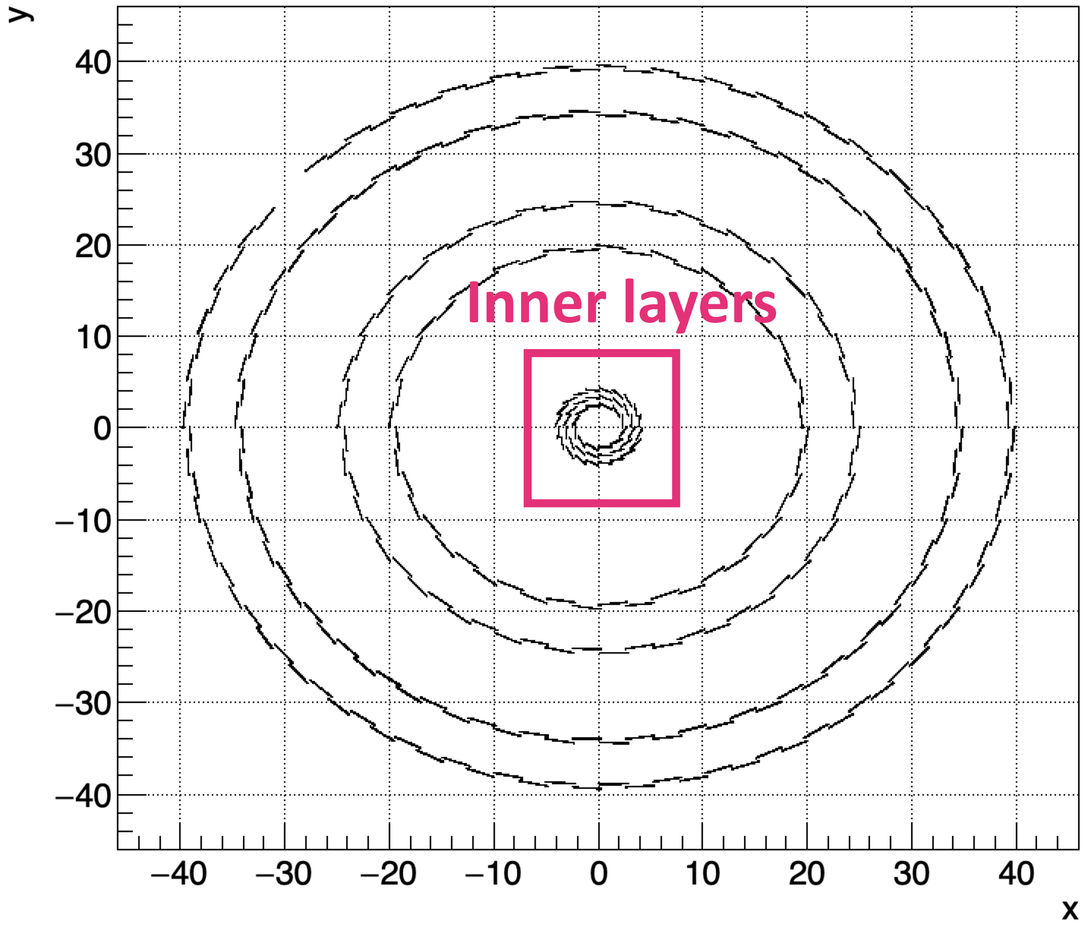

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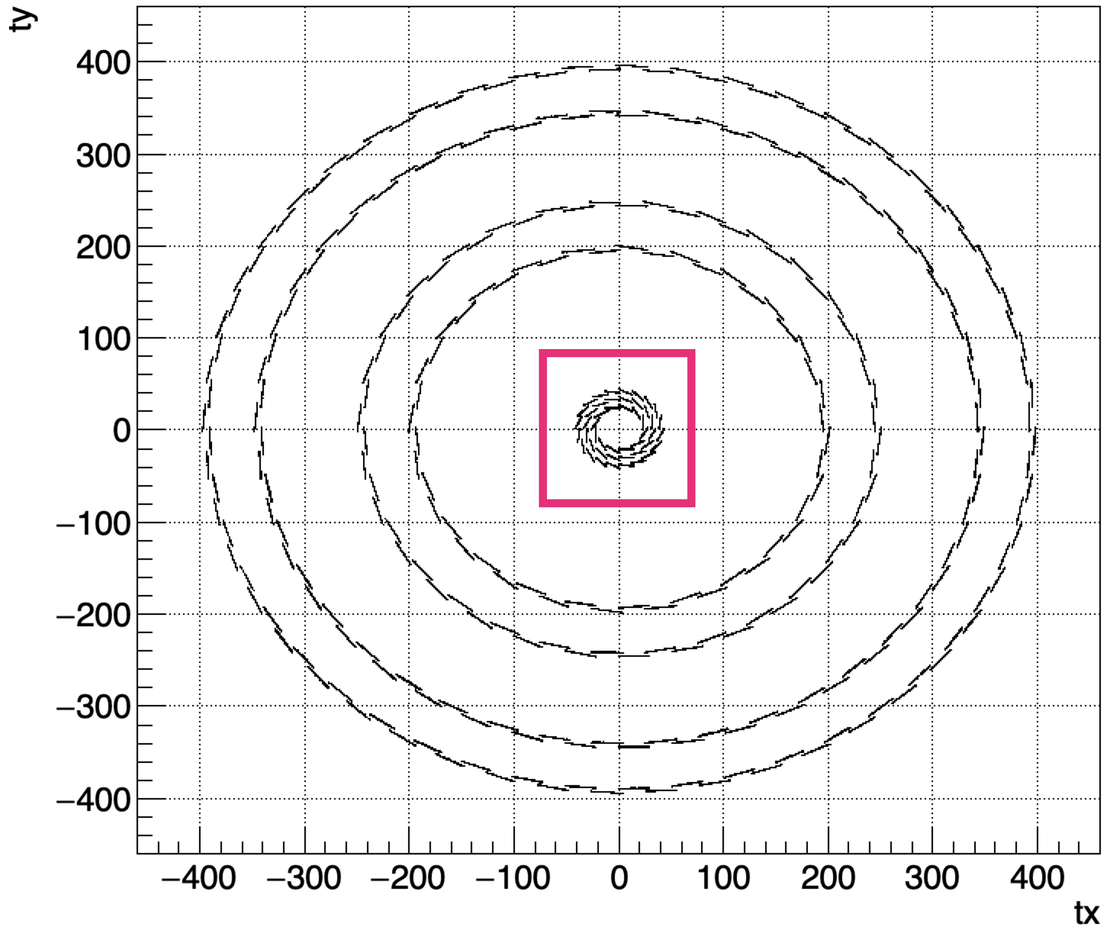

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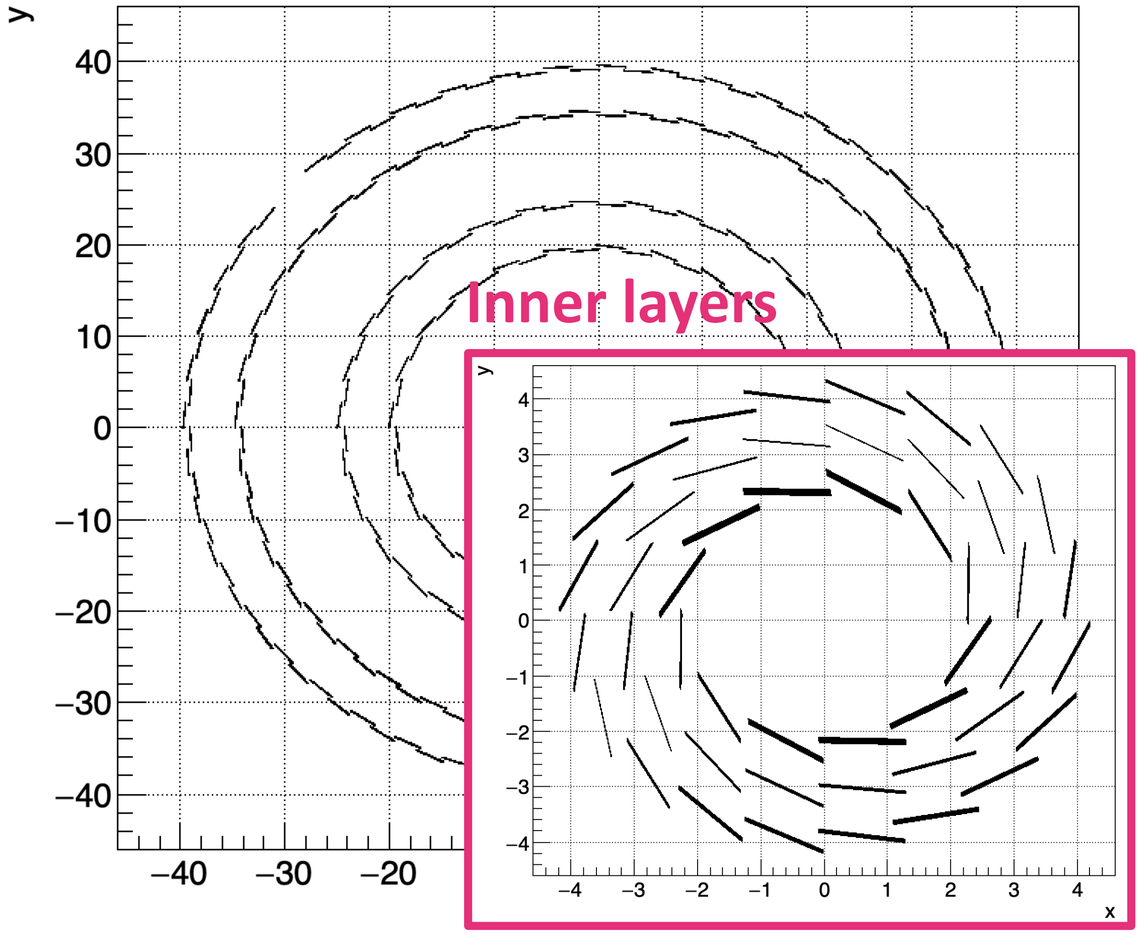

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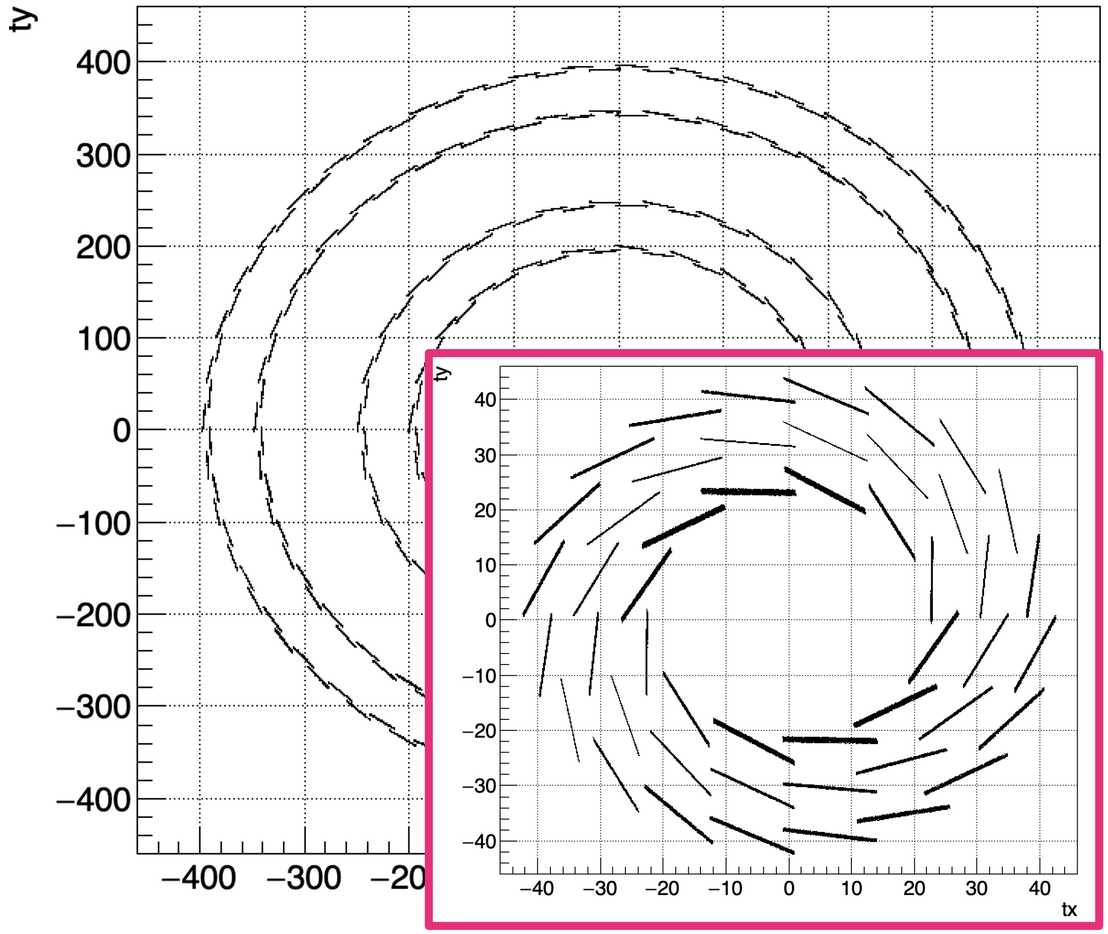
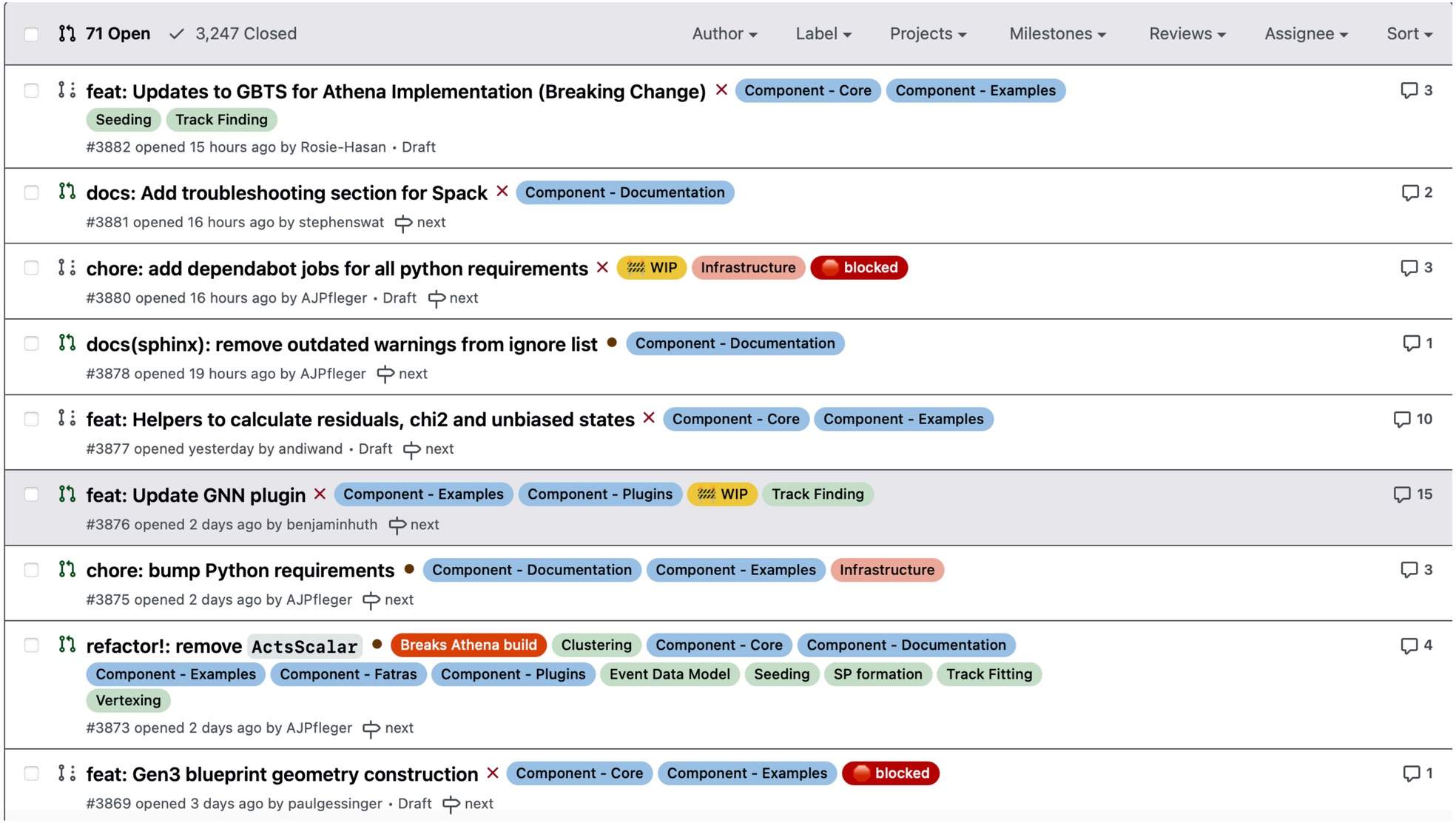


PR traffic during the WS on `acts-project/acts`



In conclusion

- **Curling** is more popular than I though (potentially also more interesting)
- I really enjoyed the workshop, atmosphere, **community**
- November spot seems to fit well, I suggest we should keep it (real-outside CERN WS next year?)
- I personally want to thank **Noemi & Paul** who took most of the organisation off my hands

Alex really needs to be careful about biases

Finally

Snow has arrived on the Jura, end of year is coming.

A **BIG THANK YOU** for all your work throughout 2024.


OSPREY


fire is good