

R³B

FAIR
GSI



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Experimental Coordination

Andrea Jedele

Current Status of Experiment

Manpower in the cave

- Actively, up to 11 people in the cave on a regular basis working on detectors for next year
 - Daniel and Sergei also present
 - Igor and Desa came in the summer
 - TUM group, Lund group come regularly
 - **Corresponds to approx 1-2 person per detector system!**
 - Some detector have more personnel in the cave than others
- On Monday
 - 7 external people present at GSI
- On Tuesday
 - 15 external people present at GSI



Current Status

- Most DAQ systems working in standalone
 - Majority are not in the main DAQ
- Still missing cosmic or source data from majority of detectors
- Online analysis present for majority of systems
 - No correlation plots

Critical items for next year

- TOFD CABLES!
 - Depending on electricians, still need to make 8-16 cables
- CALIFA needs to be remounted
 - This is on time
- TTT10
 - Unknown system
- ALPIDES???
 - Are the ALPIDES critical for next year?
 - New FPCs need to be mounted, tested, etc.
 - Most likely will not reach Dec deadlines
 - Still a lot of unknown in the operation
 - Worth investing the resources for next year?
- Remounting beam line after Chiara's experiment

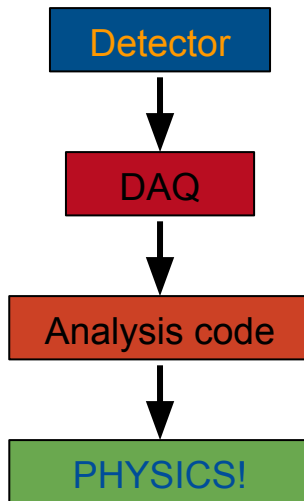


Limitations of Experiment Preparations

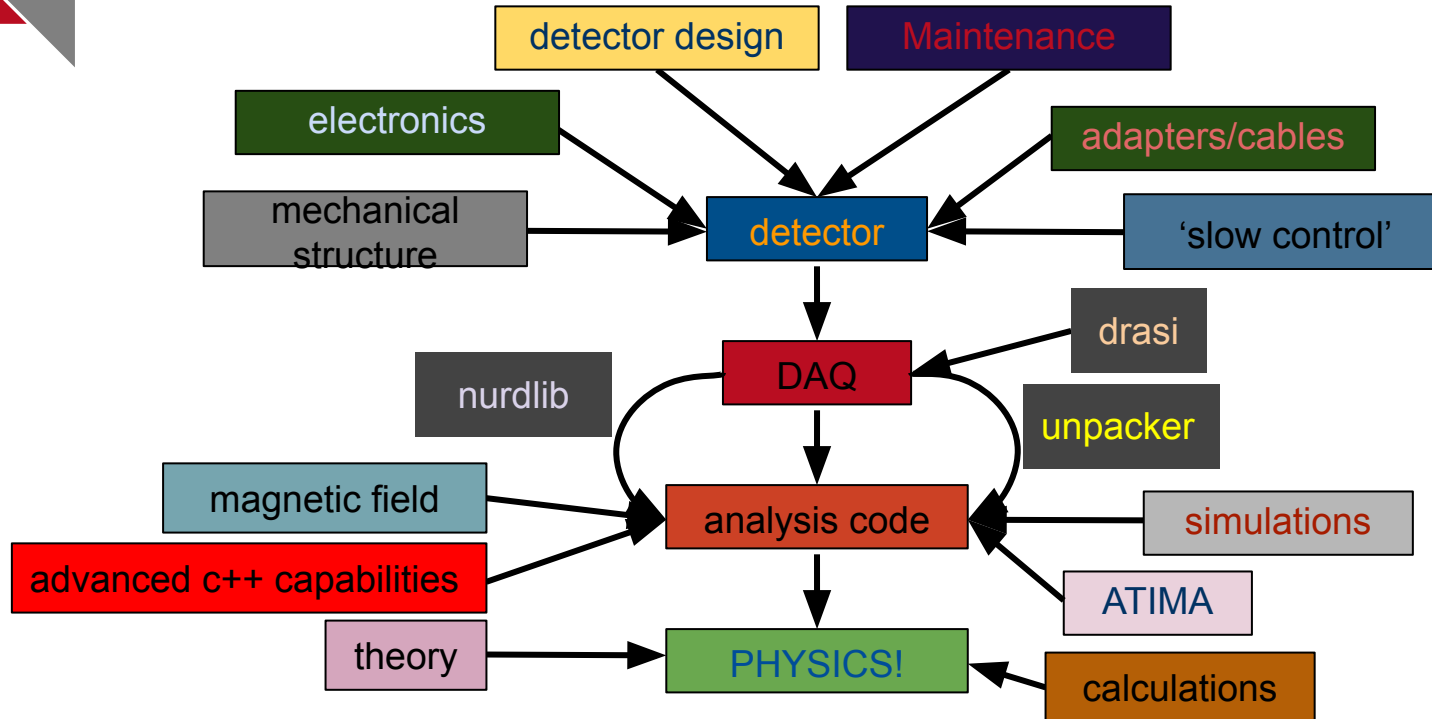
From Detector Events to Physics Results



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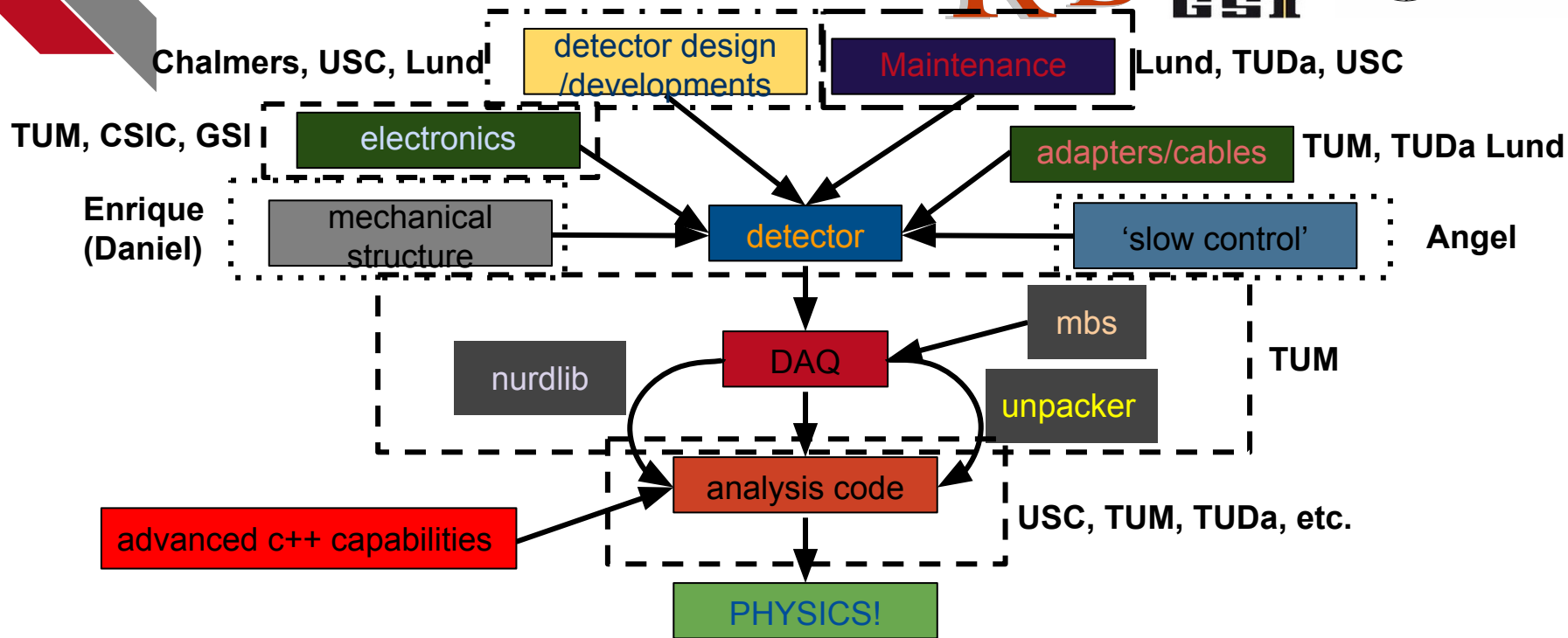
Not Full Picture



CALIFA as Example



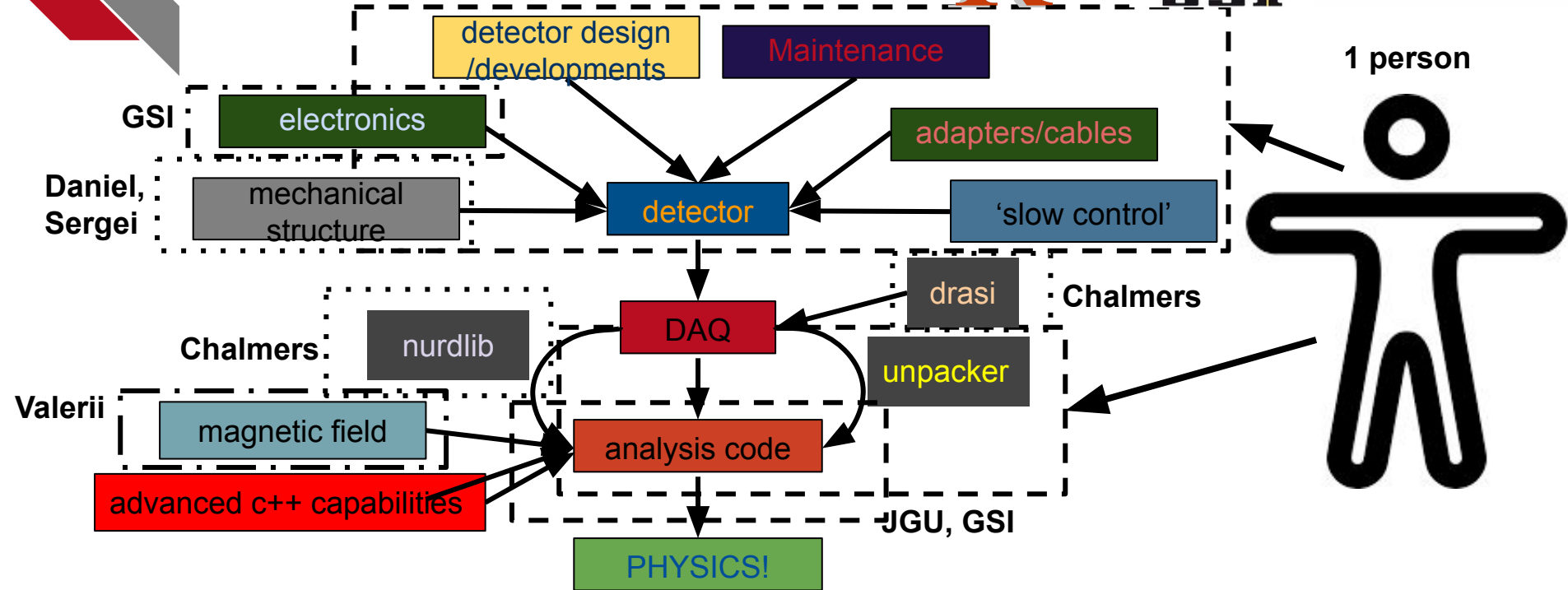
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TOFD as Example



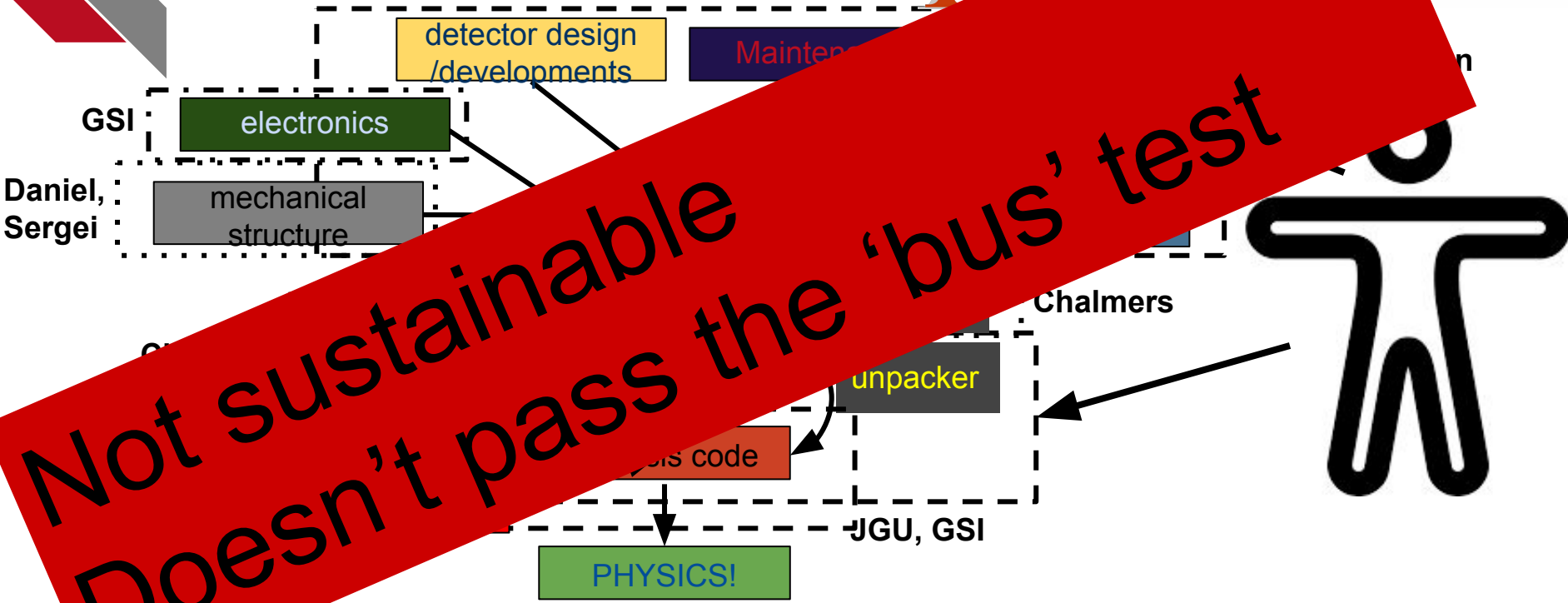
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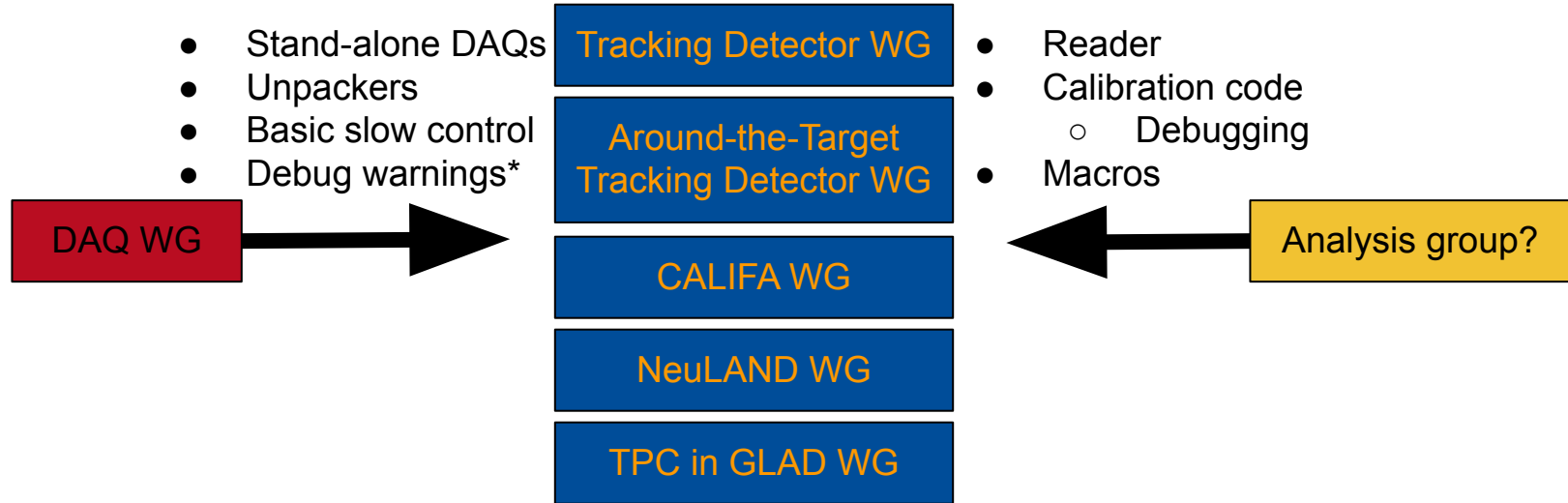
TOFD as Example

R3D

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Different Perspective



*If it's a nurdlib or drasi problem,
support in form of Håkan and Hans

Skills required

DAQ WG

- High level programming capabilities
 - C, Bash, etc.
- Understand registers
- Basic knowledge of detectors
- Knowledge of electronics

Tracking Detector WG

Around-the-Target
Tracking Detector WG

CALIFA WG

NeuLAND WG

TPC in GLAD WG

- Advanced-level programming capabilities
 - C++, Bash, Python
- Understand registers for unpacker
- Advanced knowledge of detector physics
- Understanding of RO electronics
- Understanding of additional electronics (PMTS, preamps, APDs, etc.)
- Ability to use slow control
- CAD or equivalent - depends on project
- Physics goal of experiment
- Amongst others

- Basic programming in c++
- Basic understanding of detector
- Physics goal of experiment

Analysis group?

How to Distribute Tasks more Fairly?



- What are the responsibilities of the local group?
 - Are we expecting too much of local individuals?
- What support can be offered on-site?
- What can be done remotely in the collaboration?
- Is the workload too much for the size of the active members in the collaboration?
- What responsibilities are for graduate students/postdocs vs permanent staff?

How to Distribute Tasks more Fairly?



- What are the responsibilities of the local group?
 - Are we expecting too much of local members?
- What support can be offered to local members?
- What can be done to improve local collaboration?
- Is the workload reasonable given the size of the active members in the group?

Who benefits from each experiment?

- What responsibilities are for graduate students/postdocs vs permanent staff?